



SAR EVALUATION REPORT

Applicant Name:
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052 USA

Date of Testing:
01/15/2024 – 03/25/2024
Test Site/Location:
Element, Columbia, MD, USA
Document Serial No.:
1M2312040120-01.C3K

FCC ID: C3K2077

APPLICANT: MICROSOFT CORPORATION

DUT Type: Portable Computing Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model(s): 2077

Equipment Class	Band & Mode	Tx Frequency	SAR		
			1g Laptop SAR (W/kg)	1g Tablet SAR (W/kg)	
PCB	UMTS 850	826.40 - 846.60 MHz	<0.1	0.39	
PCB	UMTS 1750	1712.4 - 1752.6 MHz	<0.1	0.59	
PCB	UMTS 1900	1852.4 - 1907.5 MHz	<0.1	0.94	
PCB	LTE Band 71	665.5 - 695.5 MHz	<0.1	0.84	
PCB	LTE Band 12	699.7 - 715.3 MHz	<0.1	0.87	
PCB	LTE Band 13	778.5 - 794.5 MHz	<0.1	0.76	
PCB	LTE Band 14	790.5 - 795.5 MHz	<0.1	1.04	
PCB	LTE Band 26	814.7 - 848.3 MHz	<0.1	0.35	
PCB	LTE Band 5	824.7 - 848.3 MHz	<0.1	0.84	
PCB	LTE Band 66	1710.7 - 1779.3 MHz	<0.1	0.68	
PCB	LTE Band 4	1710.7 - 1754.3 MHz	N/A	N/A	
PCB	LTE Band 25	1850.7 - 1914.3 MHz	<0.1	0.70	
PCB	LTE Band 2	1850.7 - 1909.3 MHz	<0.1	0.96	
PCB	LTE Band 30	2307.5 - 2312.5 MHz	<0.1	0.92	
PCB	LTE Band 41	2498.5 - 2687.5 MHz	<0.1	0.99	
CBE	LTE Band 48	3552.5 - 3697.5 MHz	<0.1	0.94	
PCB	NR Band n71	665.5 - 695.5 MHz	<0.1	1.05	
PCB	NR Band n12	701.5 - 715.5 MHz	<0.1	0.95	
PCB	NR Band n14	790.5 - 795.5 MHz	<0.1	1.07	
PCB	NR Band n26	816.5 - 846.5 MHz	<0.1	0.58	
PCB	NR Band n5	825.5 - 846.5 MHz	<0.1	1.01	
PCB	NR Band n66	1712.5 - 1777.5 MHz	<0.1	1.18	
PCB	NR Band n25	1852.5 - 1912.5 MHz	<0.1	0.85	
PCB	NR Band n2	1852.5 - 1907.5 MHz	N/A	N/A	
PCB	NR Band n30	2307.5 - 2312.5 MHz	<0.1	1.06	
PCB	NR Band n41	2506.02 - 2679.99 MHz	<0.1	0.96	
CBE	NR Band n48	3555 - 3694.98 MHz	<0.1	1.00	
PCB	NR Band n77	3460.02 - 3540 MHz; 3710.01 - 3969.99 MHz	0.74	1.17	
DTS	2.4 GHz WiFi	2412 - 2472 MHz	<0.1	1.18	
NI	5 GHz WiFi	U-NII-1: 5180 - 5240 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz	0.22	1.11	
6CD	6 GHz WiFi	U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	0.23	1.10	
DSS	2.4 GHz Bluetooth	2402 - 2480 MHz	<0.1	1.64	
Simultaneous SAR per KDB 690783 D01v01r03:			1.40	1.58	
Equipment Class	Band & Mode	Tx Frequency	APD (W/m ²)		Reported PD (W/m ²)
			Laptop	Tablet	
6CD	6 GHz WiFi	U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	1.88	5.48	7.1

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 1.9 of this report; for North American frequency bands only.

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

RJ Ortanez
Executive Vice President



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.40 - 846.60 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 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26	Data	814.7 - 848.3 MHz
LTE Band 5	Data	824.7 - 848.3 MHz
LTE Band 66	Data	1710.7 - 1779.3 MHz
LTE Band 4	Data	1710.7 - 1754.3 MHz
LTE Band 25	Data	1850.7 - 1914.3 MHz
LTE Band 2	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 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	Data	816.5 - 846.5 MHz
NR Band n5	Data	826.5 - 846.5 MHz
NR Band n66	Data	1712.5 - 1777.5 MHz
NR Band n25	Data	1852.5 - 1912.5 MHz
NR Band n2	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n48	Data	3555 - 3694.98 MHz
NR Band n77	Data	3460.02 - 3540 MHz; 3710.01 - 3969.99 MHz
2.4 GHz WIFI	Data	2412 - 2472 MHz
5 GHz WIFI	Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Data	U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6875 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with the Qualcomm® Smart Transmit feature for 2G/3G/4G/5G modes and with the Qualcomm® FastConnect TAS feature for WLAN technologies. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit and Qualcomm® FastConnect TAS features (report SN could be found in Section 1.10 – Bibliography).

Note that Bluetooth operation is 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 WWAN), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN can be found in Section 1.10 - Bibliography).

The FastConnect TAS 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 WLAN), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN can be found in Section 1.10 - Bibliography).

Smart Transmit and FastConnect TAS allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit EFS for WWAN and Plimit BDF for WLAN settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for WWAN and WLAN is 1.0dB for this EUT.

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Exposure Scenario		Maximum Tune-Up Output Power*	Laptop or Tablet - No Motion	Tablet
Averaging Volume			1g	1g
Spacing			0, 25 mm	0 mm
DSI			3	6
Technology/Band	Antenna	Pmax		
UMTS 850	4	24.0	30.0	17.4
UMTS 1750	1	24.0	26.1	12.6
UMTS 1900	1	24.0	30.0	11.3
LTE Band 71	4	24.0	30.0	16.3
LTE Band 12	4	24.0	30.0	16.8
LTE Band 13	4	24.0	30.0	17.3
LTE Band 14	4	24.0	30.0	17.8
LTE Band 26	4	24.0	30.0	17.4
LTE Band 5	4	24.0	30.0	17.4
LTE Band 66/4	1	24.0	27.9	12.6
LTE Band 25	1	24.0	30.0	11.3
LTE Band 2	1	24.0	30.0	11.3
LTE Band 30	1	22.0	28.6	10.9
LTE Band 41 PC3	1	22.0	27.6	10.5
LTE Band 41 PC2	1	22.4	27.6	10.5
LTE Band 48	2	17.6	30.0	8.9
LTE Band 48	3	17.6	27.4	8.9
NR Band n71	4	24.0	30.0	16.3
NR Band n12	4	24.0	30.0	16.8
NR Band n14	4	24.0	30.0	17.8
NR Band n26	4	24.0	30.0	17.4
NR Band n5	4	24.0	30.0	17.4
NR Band n66	1	24.0	28.7	12.6
NR Band n66	4	24.0	30.0	14.7
NR Band n25/n2	1	24.0	28.7	11.3
NR Band n25/n2	4	24.0	30.0	13.9
NR Band n30	1	22.0	29.1	10.9
NR Band n30	4	22.0	30.0	11.3
NR Band n41 PC3	1	24.0	26.4	10.5
NR Band n41 PC3	4	24.0	29.2	11.8
NR Band n48	2	19.6	29.8	8.9
NR Band n48	3	19.6	27.3	8.9
NR Band n48	5	19.6	30.0	1.0
NR Band n48	8	19.6	30.0	-1.5
NR Band n77 PC3	2	24.0	24.0	8.8
NR Band n77 PC3	3	24.0	26.8	10.9
NR Band n77 PC3	5	22.5	30.0	1.0
NR Band n77 PC3	8	22.5	26.3	-1.5
NR Band n77 PC2	2	25.5	24.0	8.8
NR Band n77 PC2	3	25.5	26.8	10.9
NR Band n77 PC2	5	24.0	30.0	1.0
NR Band n77 PC2	8	24.0	26.3	-1.5

*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 (e.g. LTE TDD).

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

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*Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.

The maximum time-averaged output power (dBm) for any Sub6 WWAN/WLAN technology, band, and DSI = minimum of “ P_{limit} EFS” and “Maximum tune up output power P_{max} ” + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

Exposure Scenario			Maximum Tune-Up Output Power*	Laptop or Tablet - No Motion	Tablet
Averaging Volume				1g	1g
Spacing				0, 25 mm	0 mm
DSI				0	1
Technology/Band	Antenna	Antenna Group	Pmax		
2.4 GHz WIFI	6	AG0	20.5	32.9	13.75
2.4 GHz WIFI	7	AG1	20.5	32.2	13.5
5 GHz WIFI	6	AG0	20.0	23.7	7.75
5 GHz WIFI	7	AG1	20.0	24.5	7.0
6 GHz WIFI	6	AG0	19.0	20.8	7.75
6 GHz WIFI	7	AG1	19.0	19.1	7.25

Per Qualcomm guidance, MIMO plimits are not included when the WLAN antennas are in separate antenna groups.

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

Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting Reserve margin (FastConnect BDF entry) when applicable to 0dB.

1.3 Power Reduction for SAR

This device used an independent fixed level power reduction mechanism for BT when the device is used in tablet configuration. Detailed descriptions of the power reduction mechanism are included in the operational description.

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.

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

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1.4.1 Licensed Output Power

UMTS Band 5 (850 MHz)					
Antenna 4					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 3 (No motion and/or Laptop)	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 6 (Motion and Tablet)	Max Allowed Power	18.4	18.4	18.4	18.4
	Nominal	17.4	17.4	17.4	17.4
UMTS Band 4 (1750 MHz)					
Antenna 1					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 3 (No motion and/or Laptop)	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 6 (Motion and Tablet)	Max Allowed Power	13.6	13.6	13.6	13.6
	Nominal	12.6	12.6	12.6	12.6
UMTS Band 2 (1900 MHz)					
Antenna 1					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 3 (No motion and/or Laptop)	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 6 (Motion and Tablet)	Max Allowed Power	12.3	12.3	12.3	12.3
	Nominal	11.3	11.3	11.3	11.3

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	DSI = 3 (No motion and/or Laptop)	DSI = 6 (Motion and Tablet)
LTE Band 71	4	Max Allowed Power	25.0	25.0	17.3
		Nominal	24.0	24.0	16.3
LTE Band 12	4	Max Allowed Power	25.0	25.0	17.8
		Nominal	24.0	24.0	16.8
LTE Band 13	4	Max Allowed Power	25.0	25.0	18.3
		Nominal	24.0	24.0	17.3
LTE Band 14	4	Max Allowed Power	25.0	25.0	18.8
		Nominal	24.0	24.0	17.8
LTE Band 26	4	Max Allowed Power	25.0	25.0	18.4
		Nominal	24.0	24.0	17.4
LTE Band 5	4	Max Allowed Power	25.0	25.0	18.4
		Nominal	24.0	24.0	17.4
LTE Band 66/4	1	Max Allowed Power	25.0	25.0	13.6
		Nominal	24.0	24.0	12.6
LTE Band 25	1	Max Allowed Power	25.0	25.0	12.3
		Nominal	24.0	24.0	11.3
LTE Band 2	1	Max Allowed Power	25.0	25.0	12.3
		Nominal	24.0	24.0	11.3
LTE Band 30	1	Max Allowed Power	23.0	23.0	11.9
		Nominal	22.0	22.0	10.9
LTE Band 41 PC3	1	Max Allowed Power	25.0	25.0	13.5
		Nominal	24.0	24.0	12.5
LTE Band 41 PC2	1	Max Allowed Power	27.0	27.0	15.1
		Nominal	26.0	26.0	14.1
LTE Band 48	2	Max Allowed Power	20.6	20.6	11.9
		Nominal	19.6	19.6	10.9
LTE Band 48	3	Max Allowed Power	20.6	20.6	11.9
		Nominal	19.6	19.6	10.9

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	DSI = 3 (No motion and/or Laptop)	DSI = 6 (Motion and Tablet)
NR Band n71	4	Max Allowed Power	25.0	25.0	17.3
		Nominal	24.0	24.0	16.3
NR Band n12	4	Max Allowed Power	25.0	25.0	17.8
		Nominal	24.0	24.0	16.8
NR Band n14	4	Max Allowed Power	25.0	25.0	18.8
		Nominal	24.0	24.0	17.8
NR Band n26	4	Max Allowed Power	25.0	25.0	18.4
		Nominal	24.0	24.0	17.4
NR Band n5	4	Max Allowed Power	25.0	25.0	18.4
		Nominal	24.0	24.0	17.4
NR Band n66	1	Max Allowed Power	25.0	25.0	13.6
		Nominal	24.0	24.0	12.6
NR Band n66	4	Max Allowed Power	25.0	25.0	15.7
		Nominal	24.0	24.0	14.7
NR Band n25/n2	1	Max Allowed Power	25.0	25.0	12.3
		Nominal	24.0	24.0	11.3
NR Band n25/n2	4	Max Allowed Power	25.0	25.0	14.9
		Nominal	24.0	24.0	13.9
NR Band n30	1	Max Allowed Power	23.0	23.0	11.9
		Nominal	22.0	22.0	10.9
NR Band n30	4	Max Allowed Power	23.0	23.0	12.3
		Nominal	22.0	22.0	11.3
NR Band n41 PC3	1	Max Allowed Power	25.0	25.0	11.5
		Nominal	24.0	24.0	10.5
NR Band n41 PC3	4	Max Allowed Power	25.0	25.0	12.8
		Nominal	24.0	24.0	11.8
NR Band n48	2	Max Allowed Power	20.6	20.6	9.9
		Nominal	19.6	19.6	8.9
NR Band n48	3	Max Allowed Power	20.6	20.6	9.9
		Nominal	19.6	19.6	8.9
NR Band n48	5	Max Allowed Power	20.6	20.6	2.0
		Nominal	19.6	19.6	1.0
NR Band n48	8	Max Allowed Power	20.6	20.6	-0.5
		Nominal	19.6	19.6	-1.5
NR Band n77 PC3	2	Max Allowed Power	25.0	25.0	9.8
		Nominal	24.0	24.0	8.8
NR Band n77 PC3	3	Max Allowed Power	25.0	25.0	11.9
		Nominal	24.0	24.0	10.9
NR Band n77 PC3	5	Max Allowed Power	23.5	23.5	2.0
		Nominal	22.5	22.5	1.0
NR Band n77 PC3	8	Max Allowed Power	23.5	23.5	-0.5
		Nominal	22.5	22.5	-1.5
NR Band n77 PC2	2	Max Allowed Power	26.5	25.0	9.8
		Nominal	25.5	24.0	8.8
NR Band n77 PC2	3	Max Allowed Power	26.5	26.5	11.9
		Nominal	25.5	25.5	10.9
NR Band n77 PC2	5	Max Allowed Power	25.0	25.0	2.0
		Nominal	24.0	24.0	1.0
NR Band n77 PC2	8	Max Allowed Power	25.0	25.0	-0.5
		Nominal	24.0	24.0	-1.5

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

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1.4.2 2.4 GHz SISO/MIMO WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, DSI=0 (No Motion and/or Laptop)

Band	IEEE 802.11 Modulated Output Power (in dBm)																							
	SISO/SISO in MIMO Antenna 6												SISO/SISO in MIMO Antenna 7											
	b		g		n		ac		ax (SU)		be (SU)		b		g		n		ac		ax (SU)		be (SU)	
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WLAN (20 MHz BW)	21.5	20.5	21.0	20.0	19.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5	21.5	20.5	21.0	20.0	19.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5
	ch. 1: 18.5	17.5	ch. 1: 17.0	16.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 18.5	17.5	ch. 1: 17.0	16.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0
	ch. 2: 21.0	20.0	ch. 2: 20.5	19.5	ch. 2: 17.5	16.5	ch. 2: 17.5	16.5	ch. 2: 17.5	16.5	ch. 2: 17.5	16.5	ch. 2: 21.0	20.0	ch. 2: 20.5	19.5	ch. 2: 17.5	16.5	ch. 2: 17.5	16.5	ch. 2: 17.5	16.5	ch. 2: 17.5	16.5
	ch. 9: 21.0	20.0	ch. 9: 19.0	18.0	ch. 9: 18.5	17.5	ch. 9: 18.5	17.5	ch. 9: 18.5	17.5	ch. 9: 18.5	17.5	ch. 9: 21.0	20.0	ch. 9: 19.0	18.0	ch. 9: 18.5	17.5	ch. 9: 18.5	17.5	ch. 9: 18.5	17.5	ch. 9: 18.5	17.5
	ch. 10: 21.0	20.0	ch. 10: 18.0	17.0	ch. 10: 17.5	16.5	ch. 10: 17.5	16.5	ch. 10: 17.5	16.5	ch. 10: 17.5	16.5	ch. 10: 21.0	20.0	ch. 10: 18.0	17.0	ch. 10: 17.5	16.5	ch. 10: 17.5	16.5	ch. 10: 17.5	16.5	ch. 10: 17.5	16.5
	ch. 11: 16.5	15.5	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 16.5	15.5	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0
	ch. 12: 14.0	13.0	ch. 12: 9.0	8.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0	ch. 12: 14.0	13.0	ch. 12: 9.0	8.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0
	ch. 13: 3.5	2.5	ch. 13: -2.5	-3.5	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0	ch. 13: 3.5	2.5	ch. 13: -2.5	-3.5	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0

The below table is applicable in the following conditions:

- DSI = 1 (Motion and Tablet)

Band	Power Level	IEEE 802.11 Modulated Output Power (in dBm)																							
		SISO/SISO in MIMO Antenna 6												SISO/SISO in MIMO Antenna 7											
		b		g		n		ac		ax (SU)		be (SU)		b		g		n		ac		ax (SU)		be (SU)	
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
2.4 GHz WLAN (20 MHz BW)	2.45 GHz	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5
		ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0	ch. 1: 11.0	10.0
		ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0
		ch. 12: 14.0	13.0	ch. 12: 9.0	8.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0	ch. 12: 14.0	13.0	ch. 12: 9.0	8.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0	ch. 12: 11.0	10.0
		ch. 13: 3.5	2.5	ch. 13: -2.5	-3.5	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0	ch. 13: 3.5	2.5	ch. 13: -2.5	-3.5	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0	ch. 13: -1.0	-2.0

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1.4.3 5 GHz SISO/MIMO WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, DSI=0 (No Motion and/or Laptop)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO/SISO in MIMO										SISO/SISO in MIMO									
		Antenna 6					Antenna 7					Antenna 6				Antenna 7					
Maximum / Nominal Power		a		n		ac		ax (SU)		be (SU)		a		n		ac		ax (SU)		be (SU)	
		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WiFi (20MHz BW)	UNI-1	19.0	18.0	19.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5	19.0	18.0	19.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5
	UNI-2A	19.0	18.0	19.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5	19.0	18.0	19.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5
	UNI-2C	19.0	18.0	19.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5	19.0	18.0	19.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5
	UNI-3	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
	UNI-4	19.0	18.0	19.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5	19.0	18.0	19.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5
5 GHz WiFi (40MHz BW)	UNI-1			18.5	17.5	18.5	17.5	18.5	17.5	18.5	17.5			18.5	17.5	18.5	17.5	18.5	17.5	18.5	17.5
	UNI-2A			ch. 38: 18.0	17.0	ch. 38: 18.0	17.0	ch. 38: 18.0	17.0	ch. 38: 18.0	17.0			ch. 38: 18.0	17.0	ch. 38: 18.0	17.0	ch. 38: 18.0	17.0	ch. 38: 18.0	17.0
	UNI-2C			ch. 62: 17.5	16.5	ch. 62: 17.5	16.5	ch. 62: 17.5	16.5	ch. 62: 17.5	16.5			ch. 62: 17.5	16.5	ch. 62: 17.5	16.5	ch. 62: 17.5	16.5	ch. 62: 17.5	16.5
	UNI-3			ch. 102: 17.5	16.5	ch. 102: 17.5	16.5	ch. 102: 17.5	16.5	ch. 102: 17.5	16.5			ch. 102: 17.5	16.5	ch. 102: 17.5	16.5	ch. 102: 17.5	16.5	ch. 102: 17.5	16.5
	UNI-4			ch. 144: 18.5	17.5	ch. 144: 18.5	17.5	ch. 144: 18.5	17.5	ch. 144: 18.5	17.5			ch. 144: 18.5	17.5	ch. 144: 18.5	17.5	ch. 144: 18.5	17.5	ch. 144: 18.5	17.5
5 GHz WiFi (80MHz BW)	UNI-1			16.5	15.5	16.5	15.5	16.5	15.5	16.5			16.5	15.5	16.5	15.5	16.5	15.5	16.5	15.5	
	UNI-2A			15.0	14.0	15.0	14.0	15.0	14.0	15.0			15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	
	UNI-2C			ch. 106: 16.0	15.0	ch. 106: 16.0	15.0	ch. 106: 16.0	15.0	ch. 106: 16.0	15.0			ch. 106: 16.0	15.0	ch. 106: 16.0	15.0	ch. 106: 16.0	15.0	ch. 106: 16.0	15.0
	UNI-3			18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0			18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNI-4			20.0	19.0	20.0	19.0	20.0	19.0	20.0	19.0			20.0	19.0	20.0	19.0	20.0	19.0	20.0	19.0
5 GHz WiFi (160MHz BW)	UNI-1/2A			14.5	13.5	14.5	13.5	14.5	13.5	14.5			14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	
	UNI-2C			14.0	13.0	14.0	13.0	14.0	13.0	14.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	
	UNI-3/4			17.5	16.5	17.5	16.5	17.5	16.5	17.5	16.5			17.5	16.5	17.5	16.5	17.5	16.5	17.5	16.5

The below table is applicable in the following conditions:

- DSI= 1 (Motion and Tablet)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO/SISO in MIMO										SISO/SISO in MIMO									
		Antenna 6					Antenna 7					Antenna 6				Antenna 7					
Maximum / Nominal Power		a		n		ac		ax (SU)		be (SU)		a		n		ac		ax (SU)		be (SU)	
		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WiFi (20MHz BW)	UNI-1	8.75	7.75	8.75	7.75	8.75	7.75	8.75	7.75	8.75	7.75	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNI-2A	8.75	7.75	8.75	7.75	8.75	7.75	8.75	7.75	8.75	7.75	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNI-2C	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75
	UNI-3	7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75	7.5	6.5	7.5	6.5	7.5	6.5	7.5	6.5	7.5	6.5
	UNI-4	7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75	7.5	6.5	7.5	6.5	7.5	6.5	7.5	6.5	7.5	6.5
5 GHz WiFi (40MHz BW)	UNI-1			8.75	7.75	8.75	7.75	8.75	7.75	8.75	7.75			8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNI-2A			8.75	7.75	8.75	7.75	8.75	7.75	8.75	7.75			8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNI-2C			8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0			7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75
	UNI-3			7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75			7.5	6.5	7.5	6.5	7.5	6.5	7.5	6.5
	UNI-4			7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75			7.5	6.5	7.5	6.5	7.5	6.5	7.5	6.5
5 GHz WiFi (80MHz BW)	UNI-1			8.75	7.75	8.75	7.75	8.75	7.75	8.75	7.75			8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNI-2A			8.75	7.75	8.75	7.75	8.75	7.75	8.75	7.75			8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNI-2C			8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0			7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75
	UNI-3			7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75			7.5	6.5	7.5	6.5	7.5	6.5	7.5	6.5
	UNI-4			7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75			7.5	6.5	7.5	6.5	7.5	6.5	7.5	6.5
5 GHz WiFi (160MHz BW)	UNI-1/2A			8.75	7.75	8.75	7.75	8.75	7.75	8.75	7.75			8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNI-2C			8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0			7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75
	UNI-3/4			7.75	6.75	7.75	6.75	7.75	6.75	7.75	6.75			7.5	6.5	7.5	6.5	7.5	6.5	7.5	6.5

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1.4.4 6 GHz SISO/MIMO WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, DSI=0 (No Motion and/or Laptop)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)											
		SISO/SISO in MIMO						SISO/SISO in MIMO					
		Antenna 6						Antenna 7					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
		ch. 2: 3.0	2.0	ch. 2: 6.0	5.0	ch. 2: 6.0	5.0	ch. 2: 3.0	2.0	ch. 2: 6.0	5.0	ch. 2: 6.0	5.0
	UNII-7	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			18.5	17.5	18.5	17.5			18.5	17.5	18.5	17.5
	UNII-7			18.5	17.5	18.5	17.5			18.5	17.5	18.5	17.5
6 GHz WiFi (80MHz BW) - SP	UNII-5			20.0	19.0	20.0	19.0			20.0	19.0	20.0	19.0
	UNII-7			20.0	19.0	20.0	19.0			20.0	19.0	20.0	19.0
6 GHz WiFi (160MHz BW) - SP	UNII-5			18.5	17.5	18.5	17.5			18.5	17.5	18.5	17.5
	UNII-7			18.5	17.5	18.5	17.5			18.5	17.5	18.5	17.5
6 GHz WiFi (320MHz BW) - SP	UNII-5					20.0	19.0					20.0	19.0

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)											
		SISO/SISO in MIMO						SISO/SISO in MIMO					
		Antenna 6						Antenna 7					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	-0.5	-1.5	-0.5	-1.5	-0.5	-1.5	-0.5	-1.5	-0.5	-1.5	-0.5	-1.5
	UNII-6	0.0	-1.0	0.0	-1.0	0.0	-1.0	0.0	-1.0	0.0	-1.0	0.0	-1.0
	UNII-7	0.0	-1.0	0.0	-1.0	0.0	-1.0	0.0	-1.0	0.0	-1.0	0.0	-1.0
	UNII-8	ch. 185: -0.5	0.0	-1.0	ch. 185: -0.5	0.0	-1.0	ch. 185: -0.5	0.0	-1.0	ch. 185: -0.5	0.0	-1.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			1.5	0.5	1.5	0.5			1.5	0.5	1.5	0.5
	UNII-6			3.0	2.0	3.0	2.0			3.0	2.0	3.0	2.0
	UNII-7			3.0	2.0	3.0	2.0			3.0	2.0	3.0	2.0
	UNII-8			3.0	2.0	3.0	2.0			3.0	2.0	3.0	2.0
6 GHz WiFi (80MHz BW) - LPI	UNII-5			5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0
	UNII-6			5.5	4.5	5.5	4.5			5.5	4.5	5.5	4.5
	UNII-7			5.5	4.5	5.5	4.5			5.5	4.5	5.5	4.5
	UNII-8			5.5	4.5	5.5	4.5			5.5	4.5	5.5	4.5
6 GHz WiFi (160MHz BW) - LPI	UNII-5			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-6			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-7			7.5	6.5	7.5	6.5			7.5	6.5	7.5	6.5
	UNII-8			7.5	6.5	7.5	6.5			7.5	6.5	7.5	6.5
6 GHz WiFi (320MHz BW) - LPI	UNII-5					11.0	10.0					11.0	10.0
	UNII-6					11.0	10.0					11.0	10.0
	UNII-7					10.5	9.5					10.5	9.5
	UNII-8					10.5	9.5					10.5	9.5

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The below table is applicable in the following conditions:

- DSI= 1 (Motion and Tablet)

IEEE 802.11 Modulated Output Power (in dBm)													
Mode	Band	SISO/SISO in MIMO						SISO/SISO in MIMO					
		Antenna 6						Antenna 7					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	7.50	6.50	7.50	6.50	7.50	6.50	8.00	7.00	8.00	7.00	8.00	7.00
	ch. 2:	3.00	2.00	6.00	5.00	6.00	5.00	3.00	2.00	6.00	5.00	6.00	5.00
	UNII-7	8.00	7.00	8.00	7.00	8.00	7.00	8.00	7.00	8.00	7.00	8.00	7.00
6 GHz WiFi (40MHz BW) - SP	UNII-5			7.50	6.50	7.50	6.50			8.00	7.00	8.00	7.00
	UNII-7			8.00	7.00	8.00	7.00			8.00	7.00	8.00	7.00
6 GHz WiFi (80MHz BW) - SP	UNII-5			7.50	6.50	7.50	6.50			8.00	7.00	8.00	7.00
	UNII-7			8.00	7.00	8.00	7.00			8.00	7.00	8.00	7.00
6 GHz WiFi (160MHz BW) - SP	UNII-5			7.50	6.50	7.50	6.50			8.00	7.00	8.00	7.00
	UNII-7			8.00	7.00	8.00	7.00			8.00	7.00	8.00	7.00
6 GHz WiFi (320MHz BW) - SP	UNII-5					7.50	6.50					8.00	7.00
	UNII-7					8.00	7.00					8.00	7.00
IEEE 802.11 Modulated Output Power (in dBm)													
Mode	Band	SISO/SISO in MIMO						SISO/SISO in MIMO					
		Antenna 6						Antenna 7					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	-0.50	-1.50	-0.50	-1.50	-0.50	-1.50	-0.50	-1.50	-0.50	-1.50	-0.50	-1.50
	UNII-6	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00
	UNII-7	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00
	UNII-8	-0.50	-1.50	-0.50	-1.50	-0.50	-1.50	-0.50	-1.50	-0.50	-1.50	-0.50	-1.50
ch. 185:	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	
6 GHz WiFi (40MHz BW) - LPI	UNII-5			1.50	0.50	1.50	0.50			1.50	0.50	1.50	0.50
	UNII-6			3.00	2.00	3.00	2.00			3.00	2.00	3.00	2.00
	UNII-7			3.00	2.00	3.00	2.00			3.00	2.00	3.00	2.00
	UNII-8			3.00	2.00	3.00	2.00			3.00	2.00	3.00	2.00
6 GHz WiFi (80MHz BW) - LPI	UNII-5			5.00	4.00	5.00	4.00			5.00	4.00	5.00	4.00
	UNII-6			5.50	4.50	5.50	4.50			5.50	4.50	5.50	4.50
	UNII-7			5.50	4.50	5.50	4.50			5.50	4.50	5.50	4.50
	UNII-8			5.50	4.50	5.50	4.50			5.50	4.50	5.50	4.50
6 GHz WiFi (160MHz BW) - LPI	UNII-5			7.50	6.50	7.50	6.50			8.00	7.00	8.00	7.00
	UNII-6			7.50	6.50	7.50	6.50			8.00	7.00	8.00	7.00
	UNII-7			7.50	6.50	7.50	6.50			7.50	6.50	7.50	6.50
	UNII-8			7.50	6.50	7.50	6.50			7.50	6.50	7.50	6.50
6 GHz WiFi (320MHz BW) - LPI	UNII-5					7.50	6.50					8.00	7.00
	UNII-6					7.50	6.50					8.25	7.25
	UNII-7					8.00	7.00					8.00	7.00
	UNII-8					8.75	7.75					8.25	7.25

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1.4.5 2.4 GHz Bluetooth Output Power

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Beam Forming	
		Antenna 6		Antenna 7		MIMO per chain	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	21.5	19.5	21.5	19.5	17.0	15.0
Bluetooth EDR	2Mbps	19.0	17.0	19.0	17.0	15.0	13.0
Bluetooth EDR	3Mbps	19.0	17.0	19.0	17.0	15.0	13.0
Bluetooth LE	1Mbps	22.5	20.5	22.5	20.5	18.0	16.0
Bluetooth LE	2Mbps	22.5	20.5	22.5	20.5	18.0	16.0
Bluetooth LE	125kbps	14.0	12.0	14.0	12.0	N/A	N/A
Bluetooth LE	500kbps	14.0	12.0	14.0	12.0	N/A	N/A

The below table is applicable in the following conditions:

- Tablet Mode with motion sensor active

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Beam Forming	
		Antenna 6		Antenna 7		MIMO per chain	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	15.0	13.0	14.5	12.5	15.0	13.0
Bluetooth EDR	2Mbps	15.0	13.0	14.5	12.5	15.0	13.0
Bluetooth EDR	3Mbps	15.0	13.0	14.5	12.5	15.0	13.0
Bluetooth LE	1Mbps	14.5	12.5	14.5	12.5	14.5	12.5
Bluetooth LE	2Mbps	14.5	12.5	14.5	12.5	14.5	12.5
Bluetooth LE	125kbps	14.5	12.5	14.5	12.5	N/A	N/A
Bluetooth LE	500kbps	14.5	12.5	14.5	12.5	N/A	N/A

The below table is applicable in the following conditions:

- Tablet mode with motion sensor active and WLAN active

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Beam Forming	
		Antenna 6		Antenna 7		MIMO per chain	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	10.0	8.0	10.0	8.0	10.0	8.0
Bluetooth EDR	2Mbps	10.0	8.0	10.0	8.0	10.0	8.0
Bluetooth EDR	3Mbps	10.0	8.0	10.0	8.0	10.0	8.0
Bluetooth LE	1Mbps	10.0	8.0	10.0	8.0	10.0	8.0
Bluetooth LE	2Mbps	10.0	8.0	10.0	8.0	10.0	8.0
Bluetooth LE	125kbps	10.0	8.0	10.0	8.0	N/A	N/A
Bluetooth LE	500kbps	10.0	8.0	10.0	8.0	N/A	N/A

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1.5 DUT Antenna Locations

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

**Table 1-1
Device Edges/Sides for SAR Testing Tablet Mode**

Antenna	Back	Front	Top	Bottom	Right	Left
1	Yes	No	Yes	No	Yes	No
2	Yes	No	Yes	No	No	No
3	Yes	No	Yes	No	No	No
4	Yes	No	Yes	No	No	Yes
5	Yes	No	No	Yes	No	Yes
6	Yes	No	No	No	No	Yes
7	Yes	No	No	No	Yes	No
8	Yes	No	No	Yes	Yes	No

**Table 1-2
Device Edges/Sides for SAR Testing Laptop Mode**

Antenna	Back	Front	Top	Bottom	Right	Left
1	No	No	No	Yes	No	No
2	No	No	No	Yes	No	No
3	No	No	No	Yes	No	No
4	No	No	No	Yes	No	No
5	No	No	No	Yes	No	No
6	No	No	No	Yes	No	No
7	No	No	No	Yes	No	No
8	No	No	No	Yes	No	No

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

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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.

**Table 1-3
Simultaneous Transmission Scenarios**

No.	Capable Transmit Configuration	Laptop	Tablet
1	2.4 GHz WLAN MIMO	Yes	Yes
2	5 GHz WLAN MIMO	Yes	Yes
3	6 GHz WLAN MIMO	Yes	Yes
4	2.4 GHz Bluetooth Beam Forming	Yes	Yes
5	2.4 GHz WLAN Ant 6 + 2.4 GHz Bluetooth Ant 7	Yes	Yes
6	2.4 GHz Bluetooth Ant 6 + 2.4 GHz WLAN Ant 7	Yes	Yes
7	5 GHz WLAN Ant 6 + 2.4 GHz Bluetooth Ant 7	Yes	Yes
8	6 GHz WLAN Ant 6 + 2.4 GHz Bluetooth Ant 7	Yes	Yes
9	2.4 GHz Bluetooth Ant 6 + 5 GHz WLAN Ant 7	Yes	Yes
10	2.4 GHz Bluetooth Ant 6 + 6 GHz WLAN Ant 7	Yes	Yes
11	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 6	Yes	Yes
12	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 6	Yes	Yes
13	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 7	Yes	Yes
14	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 7	Yes	Yes
15	2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes
16	2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes
17	5 GHz WLAN MIMO + 2.4 GHz WLAN Ant 6	Yes	Yes
18	6 GHz WLAN MIMO + 2.4 GHz WLAN Ant 6	Yes	Yes
19	5 GHz WLAN MIMO + 2.4 GHz WLAN Ant 7	Yes	Yes
20	6 GHz WLAN MIMO + 2.4 GHz WLAN Ant 7	Yes	Yes
21	2.4 GHz Bluetooth Ant 6 + 2.4 GHz WLAN Ant 7 + 5 GHz WLAN Ant 7	Yes	Yes
22	2.4 GHz Bluetooth Ant 6 + 2.4 GHz WLAN Ant 7 + 6 GHz WLAN Ant 7	Yes	Yes
23	2.4 GHz WLAN Ant 6 + 5 GHz WLAN Ant 6 + 2.4 GHz Bluetooth Ant 7	Yes	Yes
24	2.4 GHz WLAN Ant 6 + 6 GHz WLAN Ant 6 + 2.4 GHz Bluetooth Ant 7	Yes	Yes
25	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 6 + 2.4 GHz WLAN Ant 7	Yes	Yes
26	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 6 + 2.4 GHz WLAN Ant 7	Yes	Yes
27	5 GHz WLAN MIMO + 2.4 GHz WLAN Ant 6 + 2.4 GHz Bluetooth Ant 7	Yes	Yes
28	6 GHz WLAN MIMO + 2.4 GHz WLAN Ant 6 + 2.4 GHz Bluetooth Ant 7	Yes	Yes
29	2.4 GHz WLAN Ant 6 + 5 GHz WLAN Ant 7	Yes	Yes
30	2.4 GHz WLAN Ant 6 + 6 GHz WLAN Ant 7	Yes	Yes
31	5 GHz WLAN Ant 6 + 2.4 GHz WLAN Ant 7	Yes	Yes
32	6 GHz WLAN Ant 6 + 2.4 GHz WLAN Ant 7	Yes	Yes
33	5 GHz WLAN Ant 7 + 2.4 GHz Bluetooth Ant 7	Yes	Yes
34	6 GHz WLAN Ant 7 + 2.4 GHz Bluetooth Ant 7	Yes	Yes
35	5 GHz WLAN Ant 6 + 2.4 GHz Bluetooth Ant 6	Yes	Yes
36	6 GHz WLAN Ant 6 + 2.4 GHz Bluetooth Ant 6	Yes	Yes
37	2.4 GHz WLAN MIMO + 5 GHz WLAN Ant 6	Yes	Yes
38	2.4 GHz WLAN MIMO + 6 GHz WLAN Ant 6	Yes	Yes
39	2.4 GHz WLAN MIMO + 5 GHz WLAN Ant 7	Yes	Yes
40	2.4 GHz WLAN MIMO + 6 GHz WLAN Ant 7	Yes	Yes
41	2.4 GHz WLAN Ant 7 + 5 GHz WLAN Ant 7	Yes	Yes
42	2.4 GHz WLAN Ant 7 + 6 GHz WLAN Ant 7	Yes	Yes
43	2.4 GHz WLAN Ant 6 + 5 GHz WLAN Ant 6	Yes	Yes
44	2.4 GHz WLAN Ant 6 + 6 GHz WLAN Ant 6	Yes	Yes
45	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Beam Forming	Yes	Yes
46	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Beam Forming	Yes	Yes
47	2.4 GHz WLAN Ant R + WWAN	Yes	Yes
48	2.4 GHz WLAN Ant L + WWAN	Yes	Yes
49	2.4 GHz Bluetooth Ant R + WWAN	Yes	Yes
50	2.4 GHz Bluetooth Ant L + WWAN	Yes	Yes
51	5 GHz WLAN Ant R + WWAN	Yes	Yes
52	5 GHz WLAN Ant L + WWAN	Yes	Yes
53	6 GHz WLAN Ant R + WWAN	Yes	Yes
54	6 GHz WLAN Ant L + WWAN	Yes	Yes
55	LTE + NR	Yes	Yes

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1. This device supports 2x2 MIMO Tx for WLAN 802.11b/a/g/n/ac/ax/be. 802.11b/a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
2. This device supports Bluetooth Tethering.
3. For simultaneous scenarios 1-46, these WLAN simultaneous TX modes can also transmit simultaneously with the WWAN transmission modes.
4. 2.4 GHz WLAN Antenna 6 and 2.4 GHz Bluetooth Ant 6 share the same antenna path and cannot transmit simultaneously.
5. 2.4 GHz WLAN Antenna 7 and 2.4 GHz Bluetooth Ant 7 share the same antenna path and cannot transmit simultaneously.
6. 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.
7. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.

1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

This device supports IEEE 802.11ac with the following features:

- a) Up to 160 MHz Bandwidth only
- b) No aggregate channel configurations
- c) 2 Tx antenna output
- d) 256 QAM is supported
- e) TDWR and Band gap channels are supported

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

- a) Up to 320 MHz Bandwidth only for 5/6 GHz
- b) Up to 40 MHz Bandwidth only for 2.4 GHz
- c) 2 Tx antenna output
- d) Up to 1024 QAM is supported
- e) TDWR and Band gap channels are supported for 5/6 GHz
- f) MU-MIMO UL Operations are not supported

Per FCC Guidance, 802.11ax/be RU was considered a higher order 802.11 mode when compared to a/b/g/n/ac/be to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax/be RU based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes. Please see Measurement Reports SNs: 1M2312040120-22.C3K, 1M2312040120-20.C3K, 1M2312040120-18.C3K for 802.11ax/be RU output powers.

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.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. FCC KDB 648474 and FCC KDB 248227 were followed for test positions, distances, and modes. Per TCB workshop October 2020 notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (iPD) between d=2mm and d=λ/5mm is ≥ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%.

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(B) Licensed Transmitter(s)

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

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 the Downlink LTE CA 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. 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 12)

This device supports LTE Carrier Aggregation (CA) for LTE Band 5, LTE Band 66, LTE Band 2, LTE Band 41, and LTE Band 48 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

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

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

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1.8 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02, D06v02r01 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- 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/be)
- FCC KDB 648474 D04 (Accessories)
- FCC KDB Publication 616217 D04v01r02 (Tablet/Laptop)
- IEC 62479:2010
- SPEAG DASY6 System Handbook
- IEC/IEEE 63195-1:2022
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)

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 10 and Section 11.

1.10 Bibliography

Report Type	Report Serial Number
RF Exposure Part 2 Test Report	1M2312040120-04.C3K
RF Exposure Compliance Summary Report	1M2312040120-03.C3K
RF Exposure Part 0 Test Report	1M2312040120-02.C3K

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2 LTE AND NR INFORMATION

LTE Information					
Frequency Range of each LTE transmission band	LTE Band 71: 665.5 - 695.5 MHz LTE Band 12: 699.7 - 715.3 MHz LTE Band 13: 779.5 - 784.5 MHz LTE Band 14: 790.5 - 795.5 MHz LTE Band 26: 814.7 - 848.3 MHz LTE Band 5: 824.7 - 848.3 MHz LTE Band 66: 1710.7 - 1779.3 MHz LTE Band 4: 1710.7 - 1754.3 MHz LTE Band 25: 1850.7 - 1914.3 MHz LTE Band 2: 1850.7 - 1909.3 MHz LTE Band 30: 2307.5 - 2312.5 MHz LTE Band 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 13: 5 MHz, 10 MHz LTE Band 14: 5 MHz, 10 MHz LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 30: 5 MHz, 10 MHz LTE Band 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)		690.5 (133297)		695.5 (133447)
LTE Band 71: 10 MHz	668 (133172)		690.5 (133297)		693 (133422)
LTE Band 71: 15 MHz	670.5 (133197)		690.5 (133297)		690.5 (133397)
LTE Band 71: 20 MHz	673 (133222)		690.5 (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 13: 5 MHz	779.5 (23205)		782 (23230)		784.5 (23255)
LTE Band 13: 10 MHz	(NA)		782 (23230)		(NA)
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)		795.5 (23355)
LTE Band 14: 10 MHz	(NA)		793 (23330)		(NA)
LTE Band 26: 1.4 MHz	814.7 (26697)		831.5 (26865)		848.3 (27033)
LTE Band 26: 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)
LTE Band 26: 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)
LTE Band 26: 10 MHz	819 (26740)		831.5 (26865)		844 (26990)
LTE Band 26: 15 MHz	821.5 (26765)		831.5 (26865)		841.5 (26965)
LTE Band 5: 1.4 MHz	824.7 (20407)		836.5 (20525)		848.3 (20643)
LTE Band 5: 3 MHz	825.5 (20415)		836.5 (20525)		847.5 (20635)
LTE Band 5: 5 MHz	826.5 (20425)		836.5 (20525)		846.5 (20625)
LTE Band 5: 10 MHz	829 (20450)		836.5 (20525)		844 (20600)
LTE Band 66: 1.4 MHz	1710.7 (131979)		1745 (132322)		1779.3 (132665)
LTE Band 66: 3 MHz	1711.5 (131987)		1745 (132322)		1778.5 (132657)
LTE Band 66: 5 MHz	1712.5 (131997)		1745 (132322)		1777.5 (132647)
LTE Band 66: 10 MHz	1715 (132022)		1745 (132322)		1775 (132622)
LTE Band 66: 15 MHz	1717.5 (132047)		1745 (132322)		1772.5 (132597)
LTE Band 66: 20 MHz	1720 (132072)		1745 (132322)		1770 (132572)
LTE Band 4: 1.4 MHz	1710.7 (19957)		1732.5 (20175)		1754.3 (20393)
LTE Band 4: 3 MHz	1711.5 (19965)		1732.5 (20175)		1753.5 (20385)
LTE Band 4: 5 MHz	1712.5 (19975)		1732.5 (20175)		1752.5 (20375)
LTE Band 4: 10 MHz	1715 (20000)		1732.5 (20175)		1750 (20350)
LTE Band 4: 15 MHz	1717.5 (20025)		1732.5 (20175)		1747.5 (20325)
LTE Band 4: 20 MHz	1720 (20050)		1732.5 (20175)		1745 (20300)
LTE Band 25: 1.4 MHz	1850.7 (26047)		1882.5 (26365)		1914.3 (26683)
LTE Band 25: 3 MHz	1851.5 (26055)		1882.5 (26365)		1913.5 (26675)
LTE Band 25: 5 MHz	1852.5 (26065)		1882.5 (26365)		1912.5 (26665)
LTE Band 25: 10 MHz	1855 (26090)		1882.5 (26365)		1910 (26640)
LTE Band 25: 15 MHz	1857.5 (26115)		1882.5 (26365)		1907.5 (26615)
LTE Band 25: 20 MHz	1860 (26140)		1882.5 (26365)		1905 (26590)
LTE Band 2: 1.4 MHz	1850.7 (18607)		1880 (18900)		1909.3 (19193)
LTE Band 2: 3 MHz	1851.5 (18615)		1880 (18900)		1908.5 (19185)
LTE Band 2: 5 MHz	1852.5 (18625)		1880 (18900)		1907.5 (19175)
LTE Band 2: 10 MHz	1855 (18650)		1880 (18900)		1905 (19150)
LTE Band 2: 15 MHz	1857.5 (18675)		1880 (18900)		1902.5 (19125)
LTE Band 2: 20 MHz	1860 (18700)		1880 (18900)		1900 (19100)
LTE Band 30: 5 MHz	2307.5 (27685)		2310 (27710)		2312.5 (27735)
LTE Band 30: 10 MHz	(NA)		2310 (27710)		(NA)
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 (55285)	3600.8 (55748)	(NA)	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	(NA)	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	(NA)	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	(NA)	3646.7 (56207)	3690 (56640)
UE Category	UL UE Cat 18, DL UE Cat 19				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 15. It supports carrier aggregation, downlink MIMO features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conducted Powers Appendix. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 15 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBS, Wn Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information			
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: 730.5 - 738.5 MHz NR Band n26: 816.5 - 846.5 MHz NR Band n5: 826.5 - 846.5 MHz NR Band n66: 1712.5 - 1777.5 MHz NR Band n25: 1852.5 - 1912.5 MHz NR Band n2: 1852.5 - 1907.5 MHz NR Band n30: 2307.5 - 2312.5 MHz NR Band n41: 2506.02 - 2679.99 MHz NR Band n48: 3555 - 3634.98 MHz NR Band n77: 3480.02 - 3540 MHz; 3710.01 - 3889.99 MHz 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: 5 MHz; 10 MHz; 15 MHz; 20 MHz NR Band n5: 5 MHz; 10 MHz; 15 MHz; 20 MHz NR Band n66: 5 MHz; 10 MHz; 15 MHz; 20 MHz; 25 MHz; 30 MHz; 40 MHz NR Band n25: 5 MHz; 10 MHz; 15 MHz; 20 MHz NR Band n2: 5 MHz; 10 MHz; 15 MHz; 20 MHz NR Band n30: 5 MHz; 10 MHz NR Band n41: 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: 20 MHz; 30 MHz; 40 MHz; 50 MHz; 60 MHz; 70 MHz; 80 MHz; 90 MHz; 100 MHz		
Channel Bandwidths			
Channel Numbers and Frequencies (MHz)			
NR Band n71: 5 MHz	665.5 (133100)	690.5 (136100)	695.5 (139100)
NR Band n71: 10 MHz	668 (133600)	690.5 (136100)	693 (138600)
NR Band n71: 15 MHz	670.5 (134100)	690.5 (136100)	690.5 (138100)
NR Band n71: 20 MHz	673 (134600)	690.5 (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	730.5 (146100)	733 (146600)	735.5 (147100)
NR Band n14: 10 MHz	733 (146600)	733 (146600)	733 (146600)
NR Band n26: 5 MHz	816.5 (163300)	831.5 (166300)	846.5 (169300)
NR Band n26: 10 MHz	819 (163800)	831.5 (166300)	844 (168800)
NR Band n26: 15 MHz	821.5 (164300)	831.5 (166300)	841.5 (168300)
NR Band n26: 20 MHz	824 (164800)	831.5 (166300)	839 (167800)
NR Band n5: 5 MHz	826.5 (165300)	836.5 (167300)	846.5 (169300)
NR Band n5: 10 MHz	829 (165800)	836.5 (167300)	844 (168800)
NR Band n5: 15 MHz	831.5 (166300)	836.5 (167300)	841.5 (168300)
NR Band n5: 20 MHz	834 (166800)	836.5 (167300)	839 (167800)
NR Band n66: 5 MHz	1712.5 (342500)	1745 (349000)	1777.5 (355500)
NR Band n66: 10 MHz	1715 (343000)	1745 (349000)	1775 (355000)
NR Band n66: 15 MHz	1717.5 (343500)	1745 (349000)	1772.5 (354500)
NR Band n66: 20 MHz	1720 (344000)	1745 (349000)	1770 (354000)
NR Band n66: 25 MHz	1722.5 (344500)	1745 (349000)	1767.5 (353500)
NR Band n66: 30 MHz	1725 (345000)	1745 (349000)	1765 (353000)
NR Band n66: 40 MHz	1730 (346000)	1745 (349000)	1760 (352000)
NR Band n25: 5 MHz	1852.5 (370500)	1882.5 (376500)	1912.5 (382500)
NR Band n25: 10 MHz	1855 (371000)	1882.5 (376500)	1910 (382000)
NR Band n25: 15 MHz	1857.5 (371500)	1882.5 (376500)	1907.5 (381500)
NR Band n25: 20 MHz	1860 (372000)	1882.5 (376500)	1905 (381000)
NR Band n25: 25 MHz	1862.5 (372500)	1882.5 (376500)	1902.5 (380500)
NR Band n25: 30 MHz	1865 (373000)	1882.5 (376500)	1900 (380000)
NR Band n25: 40 MHz	1870 (374000)	1882.5 (376500)	1895 (379500)
NR Band n2: 5 MHz	1852.5 (370500)	1880 (376000)	1907.5 (381500)
NR Band n2: 10 MHz	1855 (371000)	1880 (376000)	1905 (381000)
NR Band n2: 15 MHz	1857.5 (371500)	1880 (376000)	1902.5 (380500)
NR Band n2: 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	2310 (462000)	2310 (462000)	2310 (462000)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)
NR Band n41: 30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)
NR Band n41: 40 MHz	2516.01 (503202)	2557.34 (513498)	(N/A)
NR Band n41: 50 MHz	2521.02 (504204)	2562.99 (515898)	2664.99 (532998)
NR Band n41: 60 MHz	2526 (505200)	2562.99 (515898)	2669.98 (533998)
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 (528998)
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)
NR Band n48: 15 MHz	3557.52 (637168)	3602.49 (640166)	(N/A)
NR Band n48: 20 MHz	3560.01 (637334)	3603.33 (640222)	(N/A)
NR Band n48: 30 MHz	3565.02 (637668)	3605.01 (640334)	(N/A)
NR Band n48: 40 MHz	3570 (638000)	(N/A)	3624.99 (641666)
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)	3534.98 (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: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)
NR Band n77: 30 MHz	3715.02 (647668)	3765 (651000)	3816.01 (654334)
NR Band n77: 40 MHz	3720 (648000)	3768 (651200)	3816 (654300)
NR Band n77: 50 MHz	3725.01 (648334)	3772.49 (652166)	(N/A)
NR Band n77: 60 MHz	3730.02 (648668)	3803.34 (653566)	(N/A)
NR Band n77: 70 MHz	3735 (649000)	3804.99 (653666)	(N/A)
NR Band n77: 80 MHz	3740.01 (649334)	(N/A)	3840 (656000)
NR Band n77: 90 MHz	3745.02 (649668)	(N/A)	3840 (656000)
NR Band n77: 100 MHz	3750 (650000)	(N/A)	3875.01 (658334)
SCS for NR Band n71, n12, n14, n26, n5, n66, n25, n2, n30		15 kHz	(N/A)
SCS for NR Band n41, n48, n77		30 kHz	(N/A)
Modulations Supported in UL		DFT-s-OFDM, 1/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	
A-MPR (Additional MPR) disabled for SAR Testing?		CP-OFDM, QPSK, 16QAM, 64QAM, 256QAM	
EN-DC and NR Carrier Aggregation Possible Combinations		YES	
LTE Anchor Bands for NR Band n71		The technical description includes all the possible carrier aggregation combinations	
LTE Anchor Bands for NR Band n12		2/4/6/6	
LTE Anchor Bands for NR Band n14		2/4/6/6	
LTE Anchor Bands for NR Band n26		NA	
LTE Anchor Bands for NR Band n5		NA	
LTE Anchor Bands for NR Band n66		2/30/48/66	
LTE Anchor Bands for NR Band n25		2/5/12/13/14/30/48/71	
LTE Anchor Bands for NR Band n2		12/13/26/48/66	
LTE Anchor Bands for NR Band n30		4/5/12/13/14/30/48/66/71	
LTE Anchor Bands for NR Band n41		2/5/12/14/66	
LTE Anchor Bands for NR Band n48		2/4/12/25/26/66/71	
LTE Anchor Bands for NR Band n77		2/5/13/66	
LTE Anchor Bands for NR Band n77		2/5/12/13/14/25/30/41/66/71	

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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/m³)
- E = Total RMS electric field strength (V/m)

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

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

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

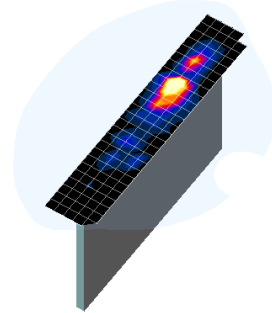


Figure 4-1
Sample SAR Area Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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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 $\epsilon = 3$ and loss tangent $\delta = 0.02$.

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.

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

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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

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.

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

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 $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

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 to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

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7.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

7.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

7.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

7.6.4 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

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

7.6.5 OFDM Transmission Mode and SAR Test Channel Selection

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

7.6.6 Subsequent Test Configuration Procedures

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

7.6.7 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

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

8.1 UMTS Conducted Powers

8.1.1 UMTS Band 5 Antenna 4

Table 8-1
UMTS Band 5 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop)

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	23.94	23.98	24.02	-
6	HSDPA	Subtest 1	23.37	23.47	23.44	0
6		Subtest 2	23.38	23.46	23.43	0
6		Subtest 3	22.87	22.91	22.93	0.5
6		Subtest 4	22.88	22.97	22.92	0.5
6	HSUPA	Subtest 1	23.53	23.62	23.58	0
6		Subtest 2	21.53	21.78	21.62	2
6		Subtest 3	22.47	22.70	22.53	1
6		Subtest 4	21.39	21.68	21.43	2
6		Subtest 5	23.46	23.71	23.55	0
8	DC-HSDPA	Subtest 1	23.35	23.46	23.45	0
8		Subtest 2	23.35	23.41	23.42	0
8		Subtest 3	22.89	22.96	22.95	0.5
8		Subtest 4	22.88	22.94	22.93	0.5

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Table 8-2
UMTS Band 5 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet)

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	17.36	17.38	17.42	-
6	HSDPA	Subtest 1	16.72	16.80	16.75	0
6		Subtest 2	16.77	16.76	16.73	0
6		Subtest 3	16.23	16.30	16.25	0.5
6		Subtest 4	16.21	16.25	16.26	0.5
6	HSUPA	Subtest 1	16.74	16.78	16.76	0
6		Subtest 2	14.71	14.75	14.78	2
6		Subtest 3	15.72	15.77	15.72	1
6		Subtest 4	14.76	14.76	14.72	2
6		Subtest 5	16.74	16.75	16.72	0
8	DC-HSDPA	Subtest 1	16.70	16.73	16.76	0
8		Subtest 2	16.72	16.80	16.75	0
8		Subtest 3	16.24	16.29	16.21	0.5
8		Subtest 4	16.22	16.26	16.23	0.5

8.1.1 UMTS 1750 and UMTS 1900 Antenna 1

Table 8-3
UMTS 1750 & UMTS 1900 Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop)

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.94	23.92	23.87	23.97	23.96	23.85	-
6	HSDPA	Subtest 1	23.47	23.45	23.56	23.55	23.48	23.44	0
6		Subtest 2	23.43	24.46	23.47	23.51	23.48	23.49	0
6		Subtest 3	22.77	22.69	22.64	22.56	22.55	22.50	0.5
6		Subtest 4	22.68	22.66	22.64	22.91	22.93	22.96	0.5
6	HSUPA	Subtest 1	23.42	23.51	23.47	23.48	23.49	23.51	0
6		Subtest 2	21.45	21.50	21.46	21.47	21.45	21.49	2
6		Subtest 3	22.51	22.62	22.65	22.56	22.60	22.57	1
6		Subtest 4	21.48	21.53	21.50	21.46	21.54	21.56	2
6		Subtest 5	23.53	23.56	23.51	23.49	23.52	23.49	0
8	DC-HSDPA	Subtest 1	23.51	23.52	23.48	23.49	23.44	23.46	0
8		Subtest 2	23.48	23.47	23.43	23.42	23.44	23.47	0
8		Subtest 3	22.96	22.89	23.02	22.95	22.91	23.01	0.5
8		Subtest 4	22.94	22.86	22.87	22.87	22.86	22.84	0.5

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Table 8-4
UMTS 1750 & UMTS 1900 Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet)

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	12.58	12.57	12.47	11.19	11.15	11.03	-
6	HSDPA	Subtest 1	11.80	11.86	11.70	10.36	10.45	10.44	0
6		Subtest 2	11.82	11.80	11.70	10.42	10.49	10.40	0
6		Subtest 3	11.29	11.31	11.15	9.81	10.00	9.97	0.5
6		Subtest 4	11.30	11.29	11.25	9.81	9.95	10.00	0.5
6	HSUPA	Subtest 1	11.82	11.81	11.62	10.44	10.45	10.50	0
6		Subtest 2	9.83	9.84	9.65	8.30	8.44	8.50	2
6		Subtest 3	10.83	10.82	10.63	9.30	9.44	9.48	1
6		Subtest 4	10.22	10.20	10.02	8.62	8.74	8.82	2
6		Subtest 5	12.25	12.20	12.05	10.62	10.77	10.86	0
8	DC-HSDPA	Subtest 1	11.82	11.81	11.60	10.40	10.46	10.43	0
8		Subtest 2	11.83	11.82	11.70	10.33	10.42	10.50	0
8		Subtest 3	11.32	11.30	11.10	9.85	9.96	9.97	0.5
8		Subtest 4	11.30	11.29	11.16	10.54	10.41	10.51	0.5

DC-HSDPA considerations

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



Figure 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

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

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

LTE Carrier Aggregation Notes:

1. This device supports uplink carrier aggregation for LTE CA_5B, LTE CA_66B, LTE CA_66C, LTE CA_2C, LTE CA_48C, and LTE CA_41C with a maximum of two component carriers. For intraband contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

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8.2.1 LTE Band 71 Antenna 4

Table 8-5
LTE Band 71 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz) Conducted Power [dBm]		
QPSK	1	0	23.79	0	0
	1	50	23.99		0
	1	99	23.94		0
	50	0	22.96	0-1	1
	50	25	23.01		1
	50	50	22.96		1
	100	0	23.00		1
16QAM	1	0	22.88	0-1	1
	1	50	23.16		1
	1	99	23.10		1
	50	0	22.03	0-2	2
	50	25	22.05		2
	50	50	22.02		2
	100	0	22.05		2
64QAM	1	0	21.99	0-2	2
	1	50	22.22		2
	1	99	21.86		2
	50	0	21.03	0-3	3
	50	25	21.13		3
	50	50	21.04		3
	100	0	21.01		3
256QAM	1	0	18.90	0-5	5
	1	50	19.03		5
	1	99	19.12		5
	50	0	19.01		5
	50	25	19.03		5
	50	50	18.99		5
	100	0	18.97		5

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Table 8-6
LTE Band 71 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz) Conducted Power [dBm]		
QPSK	1	0	16.13	0	0
	1	50	16.31		0
	1	99	16.16		0
	50	0	16.25	0-1	0
	50	25	16.23		0
	50	50	16.21		0
16QAM	100	0	16.21	0-1	0
	1	0	16.49		0
	1	50	16.38		0
	1	99	16.30	0-2	0
	50	0	16.21		0
	50	25	16.27		0
64QAM	50	50	16.27	0-2	0
	100	0	16.24		0
	1	0	16.39		0-2
	1	50	16.39	0	
	1	99	16.15	0	
	256QAM	50	0	16.21	0-3
50		25	16.17	0	
50		50	16.26	0	
100		0	16.21	0-5	0
1		0	16.42		0
1		50	16.45		0
256QAM	1	99	16.41	0-5	0
	50	0	16.24		0
	50	25	16.27		0
	50	50	16.27	0	
	100	0	16.28	0	

8.2.2 LTE Band 12 Antenna 4

Table 8-7
LTE Band 12 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.66	0	0
	1	25	24.46		0
	1	49	24.31		0
	25	0	23.54	0-1	1
	25	12	23.45		1
	25	25	23.37		1
16QAM	50	0	23.41	0-1	1
	1	0	23.87		1
	1	25	23.68		1
	1	49	23.57	0-2	1
	25	0	22.44		2
	25	12	22.55		2
64QAM	25	25	22.52	0-2	2
	50	0	22.46		2
	1	0	22.73		0-2
	1	25	22.79	2	
	1	49	22.44	2	
	256QAM	25	0	21.42	0-3
25		12	21.51	3	
25		25	21.38	3	
50		0	21.45	0-5	3
1		0	19.74		5
1		25	19.73		5
256QAM	1	49	19.30	0-5	5
	25	0	19.53		5
	25	12	19.58		5
	25	25	19.48	5	
	50	0	19.53	5	

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Table 8-8
LTE Band 12 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.33	0	0
	1	25	17.37		0
	1	49	17.21		0
	25	0	17.56	0-1	0
	25	12	17.34		0
	25	25	17.33		0
	50	0	17.31		0
16QAM	1	0	17.58	0-1	0
	1	25	17.59		0
	1	49	17.52		0
	25	0	17.38	0-2	0
	25	12	17.37		0
	25	25	17.28		0
	50	0	17.27		0
64QAM	1	0	17.55	0-2	0
	1	25	17.74		0
	1	49	17.40		0
	25	0	17.29	0-3	0
	25	12	17.41		0
	25	25	17.30		0
	50	0	17.32		0
256QAM	1	0	17.51	0-5	0
	1	25	17.47		0
	1	49	17.36		0
	25	0	17.35		0
	25	12	17.29		0
	25	25	17.32		0
	50	0	17.31		0

8.2.3 LTE Band 13 Antenna 4

Table 8-9
LTE Band 13 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.20	0	0
	1	25	24.17		0
	1	49	24.09		0
	25	0	23.07	0-1	1
	25	12	23.13		1
	25	25	23.14		1
	50	0	23.13		1
16QAM	1	0	23.24	0-1	1
	1	25	23.41		1
	1	49	23.26		1
	25	0	22.21	0-2	2
	25	12	22.15		2
	25	25	22.16		2
	50	0	22.10		2
64QAM	1	0	22.29	0-2	2
	1	25	22.37		2
	1	49	22.24		2
	25	0	21.19	0-3	3
	25	12	21.14		3
	25	25	21.16		3
	50	0	21.15		3
256QAM	1	0	19.01	0-5	5
	1	25	19.28		5
	1	49	19.25		5
	25	0	19.15		5
	25	12	19.20		5
	25	25	19.20		5
	50	0	19.15		5

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Table 8-10
LTE Band 13 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz) Conducted Power [dBm]		
QPSK	1	0	17.32	0	0
	1	25	17.44		0
	1	49	17.47		0
	25	0	17.49	0-1	0
	25	12	17.48		0
	25	25	17.51		0
16QAM	50	0	17.42	0-1	0
	1	0	17.68		0
	1	25	17.66		0
	1	49	17.61	0-2	0
	25	0	17.50		0
	25	12	17.46		0
64QAM	25	25	17.52	0-2	0
	50	0	17.41		0
	1	0	17.55		0-2
	1	25	17.66	0	
	1	49	17.77	0	
	256QAM	25	0	17.42	0-3
25		12	17.47	0	
25		25	17.49	0	
50		0	17.58	0-5	0
1		0	17.38		0
1		25	17.71		0
1	49	17.52	0		
25	0	17.42	0		
25	12	17.48	0		
25	25	17.54	0		
50	0	17.42	0		

8.2.4 LTE Band 14 Antenna 4

Table 8-11
LTE Band 14 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz) Conducted Power [dBm]		
QPSK	1	0	24.15	0	0
	1	25	24.06		0
	1	49	24.00		0
	25	0	23.06	0-1	1
	25	12	23.06		1
	25	25	23.15		1
16QAM	50	0	23.07	0-1	1
	1	0	23.39		1
	1	25	23.40		1
	1	49	23.21	0-2	1
	25	0	22.05		2
	25	12	22.11		2
64QAM	25	25	22.14	0-2	2
	50	0	22.14		2
	1	0	22.31		0-2
	1	25	22.22	2	
	1	49	22.07	2	
	256QAM	25	0	21.07	0-3
25		12	21.09	3	
25		25	21.11	3	
50		0	21.09	0-5	3
1		0	19.19		5
1		25	19.14		5
1	49	19.17	5		
25	0	19.08	5		
25	12	19.19	5		
25	25	19.17	5		
50	0	19.10	5		

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Table 8-12
LTE Band 14 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz) Conducted Power [dBm]		
QPSK	1	0	17.89	0	0
	1	25	17.87		0
	1	49	17.87		0
	25	0	17.83	0-1	0
	25	12	17.81		0
	25	25	17.96		0
16QAM	50	0	17.83		0
	1	0	18.15	0-1	0
	1	25	18.01		0
	1	49	17.98		0
	25	0	17.88	0-2	0
	25	12	17.91		0
25	25	17.87	0		
64QAM	50	0	17.85		0
	1	0	18.30	0-2	0
	1	25	18.14		0
	1	49	17.96		0
	25	0	17.89	0-3	0
	25	12	17.92		0
25	25	17.88	0		
256QAM	50	0	17.84		0
	1	0	17.99	0-5	0
	1	25	18.04		0
	1	49	18.06		0
	25	0	17.89		0
	25	12	17.92		0
25	25	17.89	0		
	50	0	17.90		0

8.2.5 LTE Band 26 Antenna 4

Table 8-13
LTE Band 26 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	23.91	0	0
	1	36	24.36		0
	1	74	24.29		0
	36	0	23.25	0-1	1
	36	18	23.19		1
	36	37	23.22		1
16QAM	75	0	23.18		1
	1	0	23.12	0-1	1
	1	36	23.30		1
	1	74	23.43		1
	36	0	22.23	0-2	2
	36	18	22.20		2
36	37	22.30	2		
64QAM	75	0	22.30		2
	1	0	22.01	0-2	2
	1	36	22.31		2
	1	74	22.29		2
	36	0	21.25	0-3	3
	36	18	21.25		3
36	37	21.23	3		
256QAM	75	0	21.19		3
	1	0	19.28	0-5	5
	1	36	19.15		5
	1	74	19.41		5
	36	0	19.21		5
	36	18	19.23		5
36	37	19.27	5		
	75	0	19.24		5

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Table 8-14
LTE Band 26 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	17.55	0	0
	1	36	17.55		0
	1	74	17.70		0
	36	0	17.72	0-1	0
	36	18	17.66		0
	36	37	17.71		0
	75	0	17.66		0
16QAM	1	0	17.80	0-1	0
	1	36	17.86		0
	1	74	17.77		0
	36	0	17.66	0-2	0
	36	18	17.68		0
	36	37	17.81		0
	75	0	17.62		0
64QAM	1	0	17.86	0-2	0
	1	36	17.92		0
	1	74	17.99		0
	36	0	17.65	0-3	0
	36	18	17.64		0
	36	37	17.68		0
	75	0	17.68		0
256QAM	1	0	17.70	0-5	0
	1	36	17.80		0
	1	74	17.90		0
	36	0	17.66		0
	36	18	17.63		0
	36	37	17.71		0
	75	0	17.62		0

8.2.6 LTE Band 5 Antenna 4

Table 8-15
LTE Band 5 (Cell) Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.20	0	0
	1	25	24.28		0
	1	49	24.22		0
	25	0	23.33	0-1	1
	25	12	23.35		1
	25	25	23.39		1
	50	0	23.33		1
16QAM	1	0	23.70	0-1	1
	1	25	23.69		1
	1	49	23.71		1
	25	0	22.36	0-2	2
	25	12	22.38		2
	25	25	22.39		2
	50	0	22.34		2
64QAM	1	0	22.50	0-2	2
	1	25	22.56		2
	1	49	22.41		2
	25	0	21.32	0-3	3
	25	12	21.37		3
	25	25	21.38		3
	50	0	21.32		3
256QAM	1	0	19.47	0-5	5
	1	25	19.66		5
	1	49	19.55		5
	25	0	19.29		5
	25	12	19.34		5
	25	25	19.39		5
	50	0	19.33		5

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Table 8-16
LTE Band 5 (Cell) Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz) Conducted Power [dBm]		
QPSK	1	0	17.59	0	0
	1	25	17.62		0
	1	49	17.63		0
	25	0	17.66	0-1	0
	25	12	17.68		0
	25	25	17.70		0
16QAM	1	0	18.09	0-1	0
	1	25	18.04		0
	1	49	18.03		0
	25	0	17.70	0-2	0
	25	12	17.69		0
	25	25	17.71		0
64QAM	1	0	17.80	0-2	0
	1	25	17.89		0
	1	49	17.76		0
	25	0	17.68	0-3	0
	25	12	17.71		0
	25	25	17.74		0
256QAM	1	0	17.64	0-5	0
	1	25	17.72		0
	1	49	17.87		0
	25	0	17.80	0-5	0
	25	12	17.63		0
	25	25	17.73		0
	50	0	17.65		0

Table 8-17
LTE Band 5 (Cell) Antenna 4 Uplink Carrier Aggregation Measured P_{Max} for DSI = 3 (No Motion and/or Laptop)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC						SCC						Power				
				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	1	49	LTE B5	5	20597	843.7	2597	888.7	QPSK	1	0	24.25	24.22

Table 8-18
LTE Band 5 (Cell) Antenna 4 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 6 (Motion and Tablet)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC						SCC						Power				
				PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	25	25	LTE B5	5	20597	843.7	2597	888.7	QPSK	12	0	17.60	17.70

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8.2.7 LTE Band 66 Antenna 1

Table 8-19

LTE Band 66 (AWS) Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.16	24.16	24.04	0	0
	1	50	24.12	24.19	24.06		0
	1	99	24.44	24.33	24.16		0
	50	0	23.22	23.25	23.10	0-1	1
	50	25	23.26	23.22	23.16		1
	50	50	23.24	23.33	23.16		1
16QAM	100	0	23.29	23.28	23.14	0-1	1
	1	0	23.43	23.42	23.29		1
	1	50	23.46	23.34	23.89		1
	1	99	23.35	23.40	23.22	0-2	1
	50	0	22.22	22.24	22.11		2
	50	25	22.35	22.31	22.20		2
64QAM	50	50	22.31	22.43	22.17	0-2	2
	100	0	22.31	22.25	22.23		2
	1	0	22.30	22.43	22.21		0-2
	1	50	22.23	22.51	22.54	2	
	1	99	22.53	22.47	22.18	2	
	256QAM	50	0	21.14	21.22	21.09	0-3
50		25	21.31	21.28	21.20	3	
50		50	21.32	21.35	21.17	3	
100		0	21.29	21.20	21.17	0-5	3
1		0	19.23	19.28	19.33		5
1		50	19.28	19.23	19.16		5
256QAM	1	99	19.54	19.51	19.12	0-5	5
	50	0	19.21	19.24	18.92		5
	50	25	19.35	19.23	19.12		5
	50	50	19.25	19.27	19.18	5	
	100	0	19.32	19.22	19.11	5	

Table 8-20

LTE Band 66 (AWS) Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 10 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.29	24.12	23.96	0	0
	1	36	24.12	24.16	23.97		0
	1	74	24.32	24.20	24.22		0
	36	0	23.22	23.21	23.15	0-1	1
	36	18	23.22	23.23	23.09		1
	36	37	23.37	23.31	23.13		1
16QAM	75	0	23.32	23.25	23.10	0-1	1
	1	0	23.43	23.24	23.13		1
	1	36	23.56	23.49	23.39		1
	36	0	22.29	22.25	22.15	0-2	2
	36	18	22.39	22.24	22.14		2
	36	37	22.33	22.39	22.16		2
64QAM	75	0	22.33	22.30	22.15	0-2	2
	1	0	22.31	22.28	22.40		2
	1	36	22.47	22.43	22.25		2
	1	74	22.31	22.35	22.38	0-3	2
	36	0	21.19	21.28	21.18		3
	36	18	21.28	21.22	21.13		3
256QAM	36	37	21.37	21.29	21.12	0-3	3
	75	0	21.27	21.29	21.19		3
	1	0	19.45	19.26	19.09		0-5
	1	36	19.19	19.35	19.04	5	
	1	74	19.29	19.45	19.26	5	
	256QAM	36	0	19.26	19.22	19.13	0-5
36		18	19.31	19.24	19.17	5	
36		37	19.29	19.36	19.07	5	
75		0	19.29	19.26	19.11	5	

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Table 8-21
LTE Band 66 (AWS) Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	12.90	12.93	12.73	0	0
	1	50	13.04	13.06	12.88		0
	1	99	13.14	13.08	12.82		0
	50	0	13.03	13.02	12.86	0-1	0
	50	25	13.05	13.02	13.01		0
	50	50	13.16	13.08	12.98		0
	100	0	13.09	13.03	12.86		0
16QAM	1	0	13.07	13.32	13.05	0-1	0
	1	50	13.14	13.22	12.97		0
	1	99	13.33	13.25	13.06		0
	50	0	13.00	13.05	12.93	0-2	0
	50	25	13.16	13.03	13.00		0
	50	50	13.15	13.09	12.97		0
	100	0	13.10	12.97	12.90		0
64QAM	1	0	13.24	13.19	13.06	0-2	0
	1	50	13.32	13.28	13.11		0
	1	99	13.27	13.24	12.98		0
	50	0	13.05	13.00	12.85	0-3	0
	50	25	13.17	13.09	12.97		0
	50	50	13.14	13.07	12.92		0
	100	0	13.10	12.95	12.90		0
256QAM	1	0	13.09	13.02	12.99	0-5	0
	1	50	13.11	13.18	13.05		0
	1	99	13.28	13.24	13.10		0
	50	0	13.05	13.03	12.88		0
	50	25	13.14	13.04	13.03		0
	50	50	13.13	13.13	12.98		0
	100	0	13.13	13.11	12.89		0

Table 8-22
LTE Band 66 (AWS) Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	13.18	13.34	12.94	0	0
	1	25	13.26	13.18	13.05		0
	1	49	13.10	13.15	13.02		0
	25	0	13.12	13.08	13.02	0-1	0
	25	12	13.21	13.15	13.02		0
	25	25	13.18	13.25	12.98		0
	50	0	13.19	13.08	13.02		0
16QAM	1	0	13.26	13.26	13.23	0-1	0
	1	25	13.49	13.57	13.31		0
	1	49	13.45	13.31	13.11		0
	25	0	13.26	13.14	13.03	0-2	0
	25	12	13.30	13.19	13.12		0
	25	25	13.25	13.28	13.06		0
	50	0	13.18	13.14	13.01		0
64QAM	1	0	13.37	13.31	13.09	0-2	0
	1	25	13.41	13.25	13.20		0
	1	49	13.34	13.33	13.08		0
	25	0	13.15	13.13	13.04	0-3	0
	25	12	13.31	13.16	13.10		0
	25	25	13.28	13.22	13.04		0
	50	0	13.20	13.11	13.00		0
256QAM	1	0	13.22	13.23	13.20	0-5	0
	1	25	13.31	13.45	13.00		0
	1	49	13.34	13.27	13.06		0
	25	0	13.18	13.17	13.07		0
	25	12	13.32	13.16	13.02		0
	25	25	13.23	13.22	13.01		0
	50	0	13.27	13.09	13.02		0

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Table 8-23

LTE Band 66 (AWS) Antenna 1 Uplink Carrier Aggregation Measured P_{Max} for DSI = 3 (No Motion and/or Laptop)

Combination	PCC									SCC								Power		
	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 66C	LTE B66	20	132072	1720.0	66536	2120.0	QPSK	1	99	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	1	0	23.84	24.44
CA 66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	1	49	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	1	0	23.86	24.23

Table 8-24

LTE Band 66 (AWS) Antenna 1 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 6 (Motion and Tablet)

Combination	PCC									SCC								Power		
	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 66C	LTE B66	20	132072	1720.0	66536	2120.0	QPSK	1	99	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	1	0	12.87	13.14
CA 66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	1	49	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	1	0	12.60	13.10

8.2.8 LTE Band 25 Antenna 1

Table 8-25

LTE Band 25 (PCS) Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.07	23.99	24.01	0	0
	1	50	24.09	24.11	24.38		0
	1	99	24.29	24.09	24.08		0
	50	0	23.11	23.12	23.13	0-1	1
	50	25	23.22	23.22	23.24		1
	50	50	23.16	23.19	23.32		1
16QAM	100	0	23.31	23.20	23.26	0-2	1
	1	0	23.29	23.24	23.37		1
	1	50	23.37	23.65	23.22		1
	1	99	23.30	23.33	23.33	0-2	1
	50	0	22.18	22.08	22.15		2
	50	25	22.24	21.97	22.27		2
64QAM	50	50	22.26	22.13	22.23	0-3	2
	100	0	22.26	22.15	22.20		2
	1	0	22.27	22.31	22.29		2
	1	50	22.28	22.13	22.30	0-2	2
	1	99	22.23	22.27	22.15		2
	50	0	21.15	21.05	21.08		3
256QAM	50	25	21.24	21.16	21.30	0-5	3
	50	50	21.22	21.14	21.24		3
	100	0	21.28	21.13	21.29		3
	1	0	19.35	19.18	19.32	0-5	5
	1	50	19.27	19.16	19.26		5
	1	99	19.31	19.31	19.56		5
50	0	19.19	19.19	19.12	5		
50	25	19.27	19.29	19.26	5		
50	50	19.28	19.25	19.23	5		
100	0	19.23	19.13	19.26	5		

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Table 8-26

LTE Band 25 (PCS) Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	11.58	11.54	11.55	0	0
	1	50	11.62	11.49	11.69		0
	1	99	11.63	11.58	11.62		0
	50	0	11.61	11.63	11.69	0-1	0
	50	25	11.70	11.69	11.69		0
	50	50	11.72	11.72	11.73		0
16QAM	100	0	11.67	11.67	11.68	0-1	0
	1	0	11.70	11.75	11.80		0
	1	50	11.76	11.80	11.86		0
	1	99	11.68	11.58	11.77	0-2	0
	50	0	11.62	11.64	11.60		0
	50	25	11.65	11.71	11.69		0
64QAM	50	50	11.71	11.64	11.74	0-2	0
	100	0	11.67	11.66	11.65		0
	1	0	11.78	11.84	11.85		0-2
	1	50	11.83	11.55	11.78	0	
	1	99	11.63	11.60	12.00	0	
	256QAM	50	0	11.64	11.59	11.65	0-3
50		25	11.69	11.64	11.67	0	
50		50	11.67	11.66	11.77	0	
100		0	11.60	11.70	11.62	0-5	0
1		0	11.73	11.56	11.52		0
1		50	11.73	11.69	11.87		0
256QAM	1	99	11.76	11.66	11.93	0-5	0
	50	0	11.64	11.58	11.58		0
	50	25	11.70	11.66	11.61		0
	50	50	11.67	11.68	11.73	0-5	0
	100	0	11.64	11.72	11.70		0

8.2.1 LTE Band 2 Antenna 1

Table 8-27

LTE Band 2 (PCS) Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	24.11	23.86	24.11	0	0
	1	50	24.08	23.86	24.14		0
	1	99	24.14	23.83	24.16		0
	50	0	22.99	23.05	23.12	0-1	1
	50	25	23.13	23.14	23.16		1
	50	50	23.12	23.15	23.24		1
16QAM	100	0	23.09	23.15	23.14	0-1	1
	1	0	23.19	23.08	23.39		1
	1	50	23.49	23.20	23.52		1
	1	99	23.36	23.20	23.45	0-2	1
	50	0	22.00	22.03	22.09		2
	50	25	22.11	22.15	22.14		2
64QAM	50	50	22.11	22.20	22.23	0-2	2
	100	0	22.11	22.14	22.14		2
	1	0	22.17	22.22	22.27		0-2
	1	50	22.37	22.36	22.40	2	
	1	99	22.22	22.24	22.36	2	
	256QAM	50	0	21.00	21.06	21.09	0-3
50		25	21.11	21.15	21.16	3	
50		50	21.13	21.17	21.26	3	
100		0	21.12	21.13	21.17	0-5	3
1		0	19.17	19.21	19.22		5
1		50	19.20	19.24	19.32		5
256QAM	1	99	19.27	19.33	19.41	0-5	5
	50	0	19.02	19.07	19.13		5
	50	25	19.11	19.14	19.16		5
	50	50	19.10	19.16	19.25	0-5	5
	100	0	19.12	19.13	19.17		5

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Table 8-28
LTE Band 2 (PCS) Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	11.02	11.14	11.29	0	0
	1	50	11.05	11.18	11.45		0
	1	99	11.01	11.21	11.34		0
	50	0	11.18	11.24	11.28	0-1	0
	50	25	11.26	11.33	11.32		0
	50	50	11.28	11.34	11.40		0
	100	0	11.25	11.31	11.39		0
16QAM	1	0	11.44	11.35	11.52	0-1	0
	1	50	11.46	11.34	11.54		0
	1	99	11.35	11.26	11.53		0
	50	0	11.19	11.18	11.26	0-2	0
	50	25	11.27	11.29	11.28		0
	50	50	11.28	11.28	11.38		0
	100	0	11.28	11.25	11.30		0
64QAM	1	0	11.41	11.29	11.40	0-2	0
	1	50	11.40	11.30	11.54		0
	1	99	11.39	11.35	11.51		0
	50	0	11.21	11.17	11.27	0-3	0
	50	25	11.28	11.26	11.31		0
	50	50	11.27	11.28	11.38		0
	100	0	11.29	11.24	11.29		0
256QAM	1	0	11.34	11.32	11.36	0-5	0
	1	50	11.35	11.36	11.42		0
	1	99	11.40	11.45	11.49		0
	50	0	11.18	11.19	11.27	0-5	0
	50	25	11.30	11.30	11.29		0
	50	50	11.28	11.28	11.38		0
	100	0	11.30	11.29	11.30		0

Table 8-29
LTE Band 2 (PCS) Antenna 1 Uplink Carrier Aggregation Measured P_{Max} for DSI = 3 (No Motion and/or Laptop)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC				Modulation	PCC UL# RB	PCC UL RB Offset	SCC				Modulation	SCC UL# RB	SCC UL RB Offset	Power		
				PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	SCC Band				SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel				SCC DL Frequency [MHz]	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_2C	LTE B2	20	19100	1900.0	1100	1980.0	QPSK	1	0	LTE B2	20	18902	1880.2	902	1960.2	QPSK	1	99	24.71	24.11

Table 8-30
LTE Band 2 (PCS) Antenna 1 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 6 (Motion and Tablet)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC				Modulation	PCC UL# RB	PCC UL RB Offset	SCC				Modulation	SCC UL# RB	SCC UL RB Offset	Power		
				PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	SCC Band				SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel				SCC DL Frequency [MHz]	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_2C	LTE B2	20	18700	1860.0	600	1940.0	QPSK	1	99	LTE B2	20	18898	1879.8	898	1959.8	QPSK	1	0	10.97	11.01

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8.2.2 LTE Band 30 Antenna 1

Table 8-31

LTE Band 30 Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth						
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			27710 (2310.0 MHz)			
			Conducted Power [dBm]			
QPSK	1	0	22.03	0	0	
	1	25	22.11		0	
	1	49	22.05		0	
	25	0	20.99	0-1	1	
	25	12	21.01		1	
	25	25	21.08		1	
16QAM	50	0	21.00	0-1	1	
	1	0	21.00		1	
	1	25	21.00		1	
	25	0	20.01	0-2	2	
	25	12	20.05		2	
	25	25	20.10		2	
64QAM	50	0	20.05	0-2	2	
	1	0	20.27		2	
	1	25	20.24		2	
	25	0	19.04	0-3	3	
	25	12	19.09		3	
	25	25	19.16		3	
256QAM	50	0	19.07	0-3	3	
	1	0	17.29		0-5	5
	1	25	17.33			5
	1	49	17.38	5		
	25	0	17.11	5		
	25	12	17.13	5		
256QAM	25	25	17.18	5		
	25	25	17.18	5		
	50	0	17.07	5		

Table 8-32

LTE Band 30 Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	11.21	0	0
	1	25	11.23		0
	1	49	11.05		0
	25	0	11.06	0-1	0
	25	12	11.15		0
	25	25	11.09		0
16QAM	50	0	11.10	0-1	0
	1	0	11.45		0
	1	25	11.26		0
	1	49	11.31	0-2	0
	25	0	11.16		0
	25	12	11.16		0
64QAM	25	25	11.10	0-2	0
	50	0	11.11		0
	1	0	11.29		0-2
	1	25	11.35	0	
	1	49	11.33	0	
	256QAM	25	0	11.14	0-3
25		12	11.15	0	
25		25	11.11	0	
50		0	11.12	0-5	0
1		0	11.16		0
1		25	11.24		0
256QAM	1	49	11.10	0-5	0
	25	0	11.09		0
	25	12	11.20		0
	25	25	11.11	0	
	50	0	11.21	0	

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8.2.3 LTE Band 41 Antenna 1

Table 8-33

LTE Band 41 PC3 Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth										
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)			
Conducted Power [dBm]										
QPSK	1	0	24.23	24.05	24.18	23.46	24.48	0	0	
	1	50	24.17	24.05	24.05	23.51	24.49		0	
	1	99	24.08	24.01	24.07	23.93	24.34		0	
	50	0	23.37	23.25	23.23	22.57	23.54	0-1	1	
	50	25	23.38	23.28	23.17	22.66	23.62		1	
	50	50	23.30	23.23	23.19	22.91	23.55		1	
100	0	23.30	23.22	23.18	22.79	23.50	0-1	1		
16QAM	1	0	23.29	23.04	23.36	22.51		23.49	0-1	1
	1	50	23.22	23.17	23.09	22.53		23.54		1
	1	99	23.10	23.01	23.14	22.98	23.41	1		
	50	0	22.38	22.27	22.24	21.58	22.57	0-2	2	
	50	25	22.35	22.21	22.18	21.66	22.64		2	
	50	50	22.30	22.22	22.21	21.92	22.58		2	
100	0	22.38	22.25	22.18	21.79	22.54	0-2	2		
64QAM	1	0	22.38	22.16	22.24	21.63		22.68	0-2	2
	1	50	22.30	22.23	22.18	21.68		22.71		2
	1	99	22.24	22.16	22.26	22.12	22.52	2		
	50	0	21.37	21.22	21.18	20.58	21.62	0-3	3	
	50	25	21.28	21.23	21.18	20.66	21.67		3	
	50	50	21.28	21.20	21.30	20.92	21.60		3	
100	0	21.34	21.24	21.18	20.81	21.57	0-3	3		
256QAM	1	0	19.35	19.18	19.18	18.53		19.77	0-5	5
	1	50	19.26	19.09	19.13	18.45		19.53		5
	1	99	19.21	19.12	19.20	19.07	19.43	5		
	50	0	19.38	19.23	19.22	18.51	19.60	0-5	5	
	50	25	19.37	19.26	19.20	18.56	19.65		5	
	50	50	19.33	19.24	19.22	18.87	19.61		5	
100	0	19.34	19.25	19.21	18.75	19.58	0-5	5		

Table 8-34

LTE Band 41 PC2 Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
Conducted Power [dBm]									
QPSK	1	0	26.43	26.30	26.35	25.56	26.56	0	0
	1	50	26.26	26.13	26.29	25.71	26.55		0
	1	99	26.29	26.20	26.20	26.07	26.40		0
	50	0	25.41	25.32	25.23	24.69	25.60	0-1	1
	50	25	25.38	25.29	25.24	24.80	25.72		1
	50	50	25.33	25.24	25.28	25.03	25.61		1
100	0	25.39	25.28	25.21	24.90	25.57	0-1	1	

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Table 8-35
LTE Band 41 PC3 Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth										
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)			
			Conducted Power [dBm]							
QPSK	1	0	13.33	12.58	12.97	12.66	13.22	0	0	
	1	50	12.78	12.90	12.67	12.03	12.27		0	
	1	99	12.68	12.53	12.63	12.08	12.25		0	
	16QAM	50	0	13.21	12.69	12.74	12.30	13.20	0-1	0
		50	25	12.87	12.94	13.00	12.02	12.48		0
		50	50	12.82	12.71	12.75	11.90	12.36		0
		64QAM	100	0	13.06	12.72	12.80	11.99	12.52	0-2
1			0	12.77	12.53	12.70	12.31	12.90	0	
1			50	12.79	12.71	12.69	12.15	12.33	0	
256QAM			1	99	12.65	12.57	12.54	11.95	12.25	0-3
	50		0	12.92	12.70	12.75	12.11	12.80	0	
	50		25	12.90	12.74	12.81	12.03	12.58	0	
	64QAM		50	50	12.84	12.74	12.76	11.89	12.44	0-2
		100	0	12.88	12.73	12.81	11.98	12.61	0	
		1	0	12.96	12.72	12.87	12.71	13.03	0	
		256QAM	1	50	12.90	12.74	12.80	12.47	12.50	0-2
1			99	12.66	12.63	12.67	12.33	12.59	0	
50			0	12.88	12.69	12.75	12.58	13.02	0	
64QAM			50	25	12.87	12.77	12.73	12.49	12.81	0-3
	50		50	12.86	12.76	12.75	12.35	12.68	0	
	100		0	12.87	12.75	12.74	12.43	12.84	0	
	256QAM		1	0	12.80	12.53	12.75	12.81	13.04	0-5
		1	50	12.79	12.51	12.63	12.55	12.63	0	
		1	99	12.82	12.64	12.70	12.61	12.37	0	
		64QAM	50	0	12.76	12.64	12.72	12.76	12.97	0-5
50			25	12.85	12.72	12.74	12.66	12.86	0	
50			50	12.84	12.72	12.72	12.51	12.63	0	
256QAM			100	0	12.83	12.72	12.74	12.66	12.82	0-5

Table 8-36
LTE Band 41 PC2 Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth										
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)			
			Conducted Power [dBm]							
QPSK	1	0	14.75	14.55	14.75	14.60	14.72	0	0	
	1	50	14.60	14.44	14.63	14.31	14.06		0	
	1	99	14.50	14.43	14.50	14.34	14.09		0	
	16QAM	50	0	14.75	14.47	14.53	14.72	14.62	0-1	0
		50	25	14.72	14.51	14.61	14.67	14.41		0
		50	50	14.68	14.52	14.53	14.62	14.29		0
		64QAM	100	0	14.68	14.54	14.61	14.68	14.45	0-1

Table 8-37
LTE Band 41 PC3 Antenna 1 Uplink Carrier Aggregation Measured P_{Max} for DSI = 3 (No Motion and/or Laptop)

Combination	PCC								SCC						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.52	24.48

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Table 8-38

LTE Band 41 PC3 Antenna 1 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 6 (Motion and Tablet)

Combination	PCC							SCC						Power		
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	12.60	13.22

8.2.4 LTE Band 48 Antenna 2

Table 8-39

LTE Band 48 Antenna 2 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
Conducted Power [dBm]								
QPSK	1	0	19.97	20.05	20.31	20.41	0	0
	1	50	20.12	20.17	20.40	20.18		0
	1	99	20.12	20.21	20.29	20.06		0
	0-1	50	0	19.21	19.31	19.36	19.31	1
		50	25	19.26	19.40	19.40	19.43	1
		50	50	19.30	19.42	19.32	19.24	1
100		0	19.23	19.37	19.39	19.30	1	
16QAM	1	0	19.07	19.18	19.23	19.24	0-1	1
	1	50	19.29	19.35	19.54	19.41		1
	1	99	19.16	19.24	19.25	19.18		1
	0-2	50	0	18.20	18.33	18.36	18.30	2
		50	25	18.26	18.38	18.42	18.32	2
		50	50	18.29	18.41	18.34	18.25	2
100	0	18.24	18.38	18.40	18.32	2		
64QAM	1	0	17.99	18.13	18.28	18.21	0-2	2
	1	50	18.15	18.47	18.43	18.22		2
	1	99	18.15	18.21	18.29	18.15		2
	0-3	50	0	17.20	17.34	17.35	17.30	3
		50	25	17.26	17.40	17.40	17.32	3
		50	50	17.29	17.43	17.34	17.24	3
100	0	17.25	17.37	17.40	17.30	3		
256QAM	1	0	15.07	15.11	15.28	15.29	0-5	5
	1	50	15.15	15.29	15.25	15.24		5
	1	99	15.35	15.40	15.32	15.24		5
	0-5	50	0	15.20	15.31	15.34	15.31	5
		50	25	15.25	15.38	15.40	15.33	5
		50	50	15.29	15.43	15.34	15.25	5
100	0	15.25	15.37	15.38	15.29	5		

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Table 8-40
LTE Band 48 Antenna 2 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	10.78	10.95	11.27	11.20	0	0
	1	50	10.84	11.05	11.39	11.23		0
	1	99	10.83	11.10	11.29	11.19		0
	50	0	10.87	11.06	11.41	11.33	0-1	0
	50	25	10.98	11.24	11.45	11.36		0
	50	50	10.98	11.22	11.39	11.30		0
	100	0	10.96	11.20	11.38	11.37		0
16QAM	1	0	10.76	10.98	11.47	11.21	0-1	0
	1	50	10.85	11.03	11.40	11.46		0
	1	99	10.80	11.10	11.31	11.28		0
	50	0	10.87	11.09	11.46	11.35	0-2	0
	50	25	11.01	11.21	11.47	11.38		0
	50	50	10.98	11.25	11.41	11.31		0
	100	0	10.98	11.16	11.48	11.37		0
64QAM	1	0	10.88	11.04	11.31	11.28	0-2	0
	1	50	10.93	11.16	11.45	11.32		0
	1	99	10.94	11.21	11.41	11.34		0
	50	0	10.90	11.11	11.43	11.35	0-3	0
	50	25	11.01	11.22	11.47	11.37		0
	50	50	10.99	11.27	11.41	11.33		0
	100	0	10.97	11.23	11.45	11.38		0
256QAM	1	0	10.76	10.95	11.31	11.18	0-5	0
	1	50	10.85	11.10	11.30	11.15		0
	1	99	10.83	11.17	11.37	11.20		0
	50	0	10.85	11.04	11.38	11.27		0
	50	25	10.96	11.18	11.41	11.28		0
	50	50	10.96	11.21	11.34	11.25		0
	100	0	10.92	11.18	11.39	11.31		0

Table 8-41

LTE Band 48 Antenna 2 Uplink Carrier Aggregation Measured P_{Max} for DSI = 3 (No Motion and/or Laptop)

Combination	PCC							SCC						Power		
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	1	0	LTE B48	20	56442	3670.2	QPSK	1	99	20.35	20.41

Table 8-42

LTE Band 48 Antenna 2 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 6 (Motion and Tablet)

PCC Band	PCC							SCC						Power	
	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)
LTE B48	20	56207	3646.7	QPSK	50	0	LTE B48	20	56009	3626.9	QPSK	50	50	11.38	11.41

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8.2.1 LTE Band 48 Antenna 3

Table 8-43
LTE Band 48 Antenna 3 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	20.50	20.05	19.93	20.16	0	0
	1	50	20.10	19.97	19.95	20.36		0
	1	99	20.13	19.96	20.04	20.37		0
	50	0	19.23	19.03	18.87	18.94	0-1	1
	50	25	19.40	19.02	18.89	18.92		1
	50	50	19.20	19.04	18.91	19.29		1
16QAM	100	0	19.16	18.94	18.91	18.92	0-1	1
	1	0	18.83	18.63	18.82	18.87		1
	1	50	18.78	18.63	18.71	18.92		1
	1	99	18.86	18.52	18.89	18.84	0-2	1
	50	0	18.21	18.08	17.82	18.02		2
	50	25	18.20	17.90	17.81	18.00		2
64QAM	50	50	18.19	17.93	17.87	17.93	0-2	2
	100	0	18.16	17.96	17.85	17.90		2
	1	0	18.22	17.87	17.73	18.04		0-2
	1	50	18.10	17.88	17.72	18.08	2	
	1	99	18.09	18.16	17.88	18.29	2	
	256QAM	50	0	17.26	17.14	16.91	16.89	0-3
50		25	17.31	17.12	16.94	16.88	3	
50		50	17.18	17.02	16.95	16.84	3	
100		0	17.12	16.95	16.97	16.95	0-5	3
1		0	15.13	15.20	14.95	15.07		5
1		50	15.15	15.07	15.01	15.08		5
256QAM	1	99	15.14	15.08	14.85	14.82	0-5	5
	50	0	15.13	15.04	14.93	14.87		5
	50	25	15.10	14.88	14.85	14.84		5
	50	50	15.12	14.92	14.95	14.80	5	
	100	0	15.11	14.92	14.92	14.87	5	

Table 8-44
LTE Band 48 Antenna 3 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	11.33	10.87	10.50	10.80	0	0
	1	50	11.22	10.81	10.52	10.65		0
	1	99	11.24	10.70	10.55	10.78		0
	50	0	11.38	10.91	10.66	10.78	0-1	0
	50	25	11.39	10.95	10.62	10.79		0
	50	50	11.36	10.96	10.69	10.75		0
16QAM	100	0	11.32	10.91	10.65	10.81	0-1	0
	1	0	11.18	10.76	10.67	10.79		0
	1	50	11.19	10.77	10.61	10.70		0
	1	99	11.15	10.75	10.68	10.76	0-2	0
	50	0	11.33	10.92	10.52	10.79		0
	50	25	11.33	10.91	10.60	10.76		0
64QAM	50	50	11.32	10.89	10.62	10.80	0-2	0
	100	0	11.32	10.94	10.61	10.72		0
	1	0	11.60	11.09	10.86	11.12		0-3
	1	50	11.62	11.22	10.94	10.97	0	
	1	99	11.55	11.21	11.03	11.12	0	
	256QAM	50	0	11.32	10.84	10.57	10.83	0-3
50		25	11.36	10.87	10.66	10.86	0	
50		50	11.39	10.81	10.63	10.83	0	
100		0	11.29	10.87	10.61	10.79	0-5	0
1		0	11.41	10.98	10.94	10.66		0
1		50	11.37	10.89	11.02	10.69		0
256QAM	1	99	11.39	11.07	10.88	10.74	0-5	0
	50	0	11.36	10.95	10.65	10.83		0
	50	25	11.39	10.97	10.74	10.88		0
	50	50	11.38	10.94	10.75	10.89	0	
	100	0	11.32	10.95	10.66	10.78	0	

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Figure 8-2
Power Measurement Setup

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8.3 NR Conducted Powers

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

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

8.3.1 NR Band n71 Antenna 4

Table 8-45
NR Band n71 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.17	0	0.0
	1	53	24.23		0.0
	1	104	24.17		0.0
	50	0	23.30	0-1	1.0
	50	28	24.31	0	0.0
	50	56	23.22	0-1	1.0
	100	0	23.36		1.0
DFT-s-OFDM 16QAM	1	1	23.22	0-1	1.0
CP-OFDM QPSK	1	1	22.80	0-1.5	1.5

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Table 8-46
NR Band n71 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.35	0	0.0
	1	53	16.13		0.0
	1	104	16.01		0.0
	50	0	16.38	0-1	0.0
	50	28	16.14	0	0.0
	50	56	16.04	0-1	0.0
	100	0	16.34		0.0
DFT-s-OFDM 16QAM	1	1	15.94	0-1	0.0
CP-OFDM QPSK	1	1	16.18	0-1.5	0.0

8.3.1 NR Band n12 Antenna 4

Table 8-47
NR Band n12 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) – 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.87	0	0.0
	1	40	24.69		0.0
	1	77	24.47		0.0
	36	0	23.85	0-1	1.0
	36	22	24.74	0	0.0
	36	43	23.73	0-1	1.0
	75	0	23.79		1.0
DFT-s-OFDM 16QAM	1	1	23.80	0-1	1.0
CP-OFDM QPSK	1	1	23.48	0-1.5	1.5

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Table 8-48
NR Band n12 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.41	0	0.0
	1	40	17.21		0.0
	1	77	17.06		0.0
	36	0	17.40	0-1	0.0
	36	22	17.29	0	0.0
	36	43	17.20	0-1	0.0
	75	0	17.30		0.0
DFT-s-OFDM 16QAM	1	1	17.33	0-1	0.0
CP-OFDM QPSK	1	1	17.40	0-1.5	0.0

8.3.1 NR Band n14 Antenna 4

Table 8-49
NR Band n14 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) – 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.78	0	0.0
	1	26	23.81		0.0
	1	50	23.77		0.0
	25	0	22.84	0-1	1.0
	25	14	23.83	0	0.0
	25	27	22.90	0-1	1.0
	50	0	22.92		1.0
DFT-s-OFDM 16QAM	1	1	22.84	0-1	1.0
CP-OFDM QPSK	1	1	22.32	0-1.5	1.5

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Table 8-50
NR Band n14 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.84	0	0.0
	1	26	17.50		0.0
	1	50	17.45		0.0
	25	0	17.49	0-1	0.0
	25	14	17.84	0	0.0
	25	27	17.51	0-1	0.0
	50	0	17.83		0.0
DFT-s-OFDM 16QAM	1	1	17.47	0-1	0.0
CP-OFDM QPSK	1	1	17.70	0-1.5	0.0

8.3.1 NR Band n26 Antenna 4

Table 8-51
NR Band n26 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.08	0	0.0
	1	53	24.30		0.0
	1	104	24.22		0.0
	50	0	23.41	0-1	1.0
	50	28	24.30	0	0.0
	50	56	23.33	0-1	1.0
	100	0	23.45		1.0
DFT-s-OFDM 16QAM	1	1	23.20	0-1	1.0
CP-OFDM QPSK	1	1	22.69	0-1.5	1.5

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Table 8-52
NR Band n26 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.60	0	0.0
	1	53	17.71		0.0
	1	104	17.64		0.0
	50	0	17.67	0-1	0.0
	50	28	17.75	0	0.0
	50	56	17.60	0-1	0.0
	100	0	17.70		0.0
DFT-s-OFDM 16QAM	1	1	17.61	0-1	0.0
CP-OFDM QPSK	1	1	17.57	0-1.5	0.0

8.3.2 NR Band n5 Antenna 4

Table 8-53
NR Band n5 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.12	0	0.0
	1	53	24.08		0.0
	1	104	24.08		0.0
	50	0	23.25	0-1	1.0
	50	28	24.25	0	0.0
	50	56	23.10	0-1	1.0
	100	0	23.25		1.0
DFT-s-OFDM 16QAM	1	1	23.11	0-1	1.0
CP-OFDM QPSK	1	1	22.65	0-1.5	1.5

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Table 8-54
NR Band n5 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.28	0	0.0
	1	53	17.16		0.0
	1	104	17.16		0.0
	50	0	17.25	0-1	0.0
	50	28	17.20	0	0.0
	50	56	17.19	0-1	0.0
	100	0	17.22		0.0
DFT-s-OFDM 16QAM	1	1	17.05	0-1	0.0
CP-OFDM QPSK	1	1	17.17	0-1.5	0.0

8.3.3 NR Band n66 Antenna 1

Table 8-55
NR Band n66 Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.38	0	0.0
	1	108	24.42		0.0
	1	214	24.43		0.0
	108	0	23.58	0-1	1.0
	108	54	24.49	0	0.0
	108	108	23.54	0-1	1.0
	216	0	23.42		1.0
DFT-s-OFDM 16QAM	1	1	23.34	0-1	1.0
CP-OFDM QPSK	1	1	22.80	0-1.5	1.5

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Table 8-56
NR Band n66 Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 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	13.01	0	0.0
	1	108	13.11		0.0
	1	214	12.93		0.0
	108	0	12.99	0-1	0.0
	108	54	13.13	0	0.0
	108	108	13.10	0-1	0.0
	216	0	13.09		0.0
DFT-s-OFDM 16QAM	1	1	12.97	0-1	0.0
CP-OFDM QPSK	1	1	12.96	0-1.5	0.0

8.3.4 NR Band n66 Antenna 4

Table 8-57
NR Band n66 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 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	24.69	0	0.0
	1	108	24.88		0.0
	1	214	24.60		0.0
	108	0	23.84	0-1	1.0
	108	54	24.74	0	0.0
	108	108	23.83	0-1	1.0
	216	0	23.77		1.0
DFT-s-OFDM 16QAM	1	1	23.81	0-1	1.0
CP-OFDM QPSK	1	1	22.90	0-1.5	1.5

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Table 8-58
NR Band n66 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 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	15.22	0	0.0
	1	108	15.46		0.0
	1	214	15.36		0.0
	108	0	15.37	0-1	0.0
	108	54	15.46	0	0.0
	108	108	15.39	0-1	0.0
	216	0	15.33		0.0
DFT-s-OFDM 16QAM	1	1	15.38	0-1	0.0
CP-OFDM QPSK	1	1	15.09	0-1.5	0.0

8.3.1 NR Band n25 Antenna 1

Table 8-59
NR Band n25 Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 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	24.30	0	0.0
	1	108	24.34		0.0
	1	214	24.36		0.0
	108	0	23.62	0-1	1.0
	108	54	24.58	0	0.0
	108	108	23.58	0-1	1.0
	216	0	23.56		1.0
DFT-s-OFDM 16QAM	1	1	23.78	0-1	1.0
CP-OFDM QPSK	1	1	22.98	0-1.5	1.5

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Table 8-60
NR Band n25 Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 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	11.65	0	0.0
	1	108	11.71		0.0
	1	214	11.73		0.0
	108	0	11.79	0-1	0.0
	108	54	11.72	0	0.0
	108	108	11.72	0-1	0.0
	216	0	11.72		0.0
DFT-s-OFDM 16QAM	1	1	11.60	0-1	0.0
CP-OFDM QPSK	1	1	11.64	0-1.5	0.0

8.3.2 NR Band n25 Antenna 4

Table 8-61
NR Band n25 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 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	24.56	0	0.0
	1	108	24.65		0.0
	1	214	24.79		0.0
	108	0	23.73	0-1	1.0
	108	54	24.64	0	0.0
	108	108	23.86	0-1	1.0
	216	0	23.79		1.0
DFT-s-OFDM 16QAM	1	1	23.61	0-1	1.0
CP-OFDM QPSK	1	1	23.25	0-1.5	1.5

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Table 8-62
NR Band n25 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.31	0	0.0
	1	108	14.51		0.0
	1	214	14.59		0.0
	108	0	14.48	0-1	0.0
	108	54	14.54	0	0.0
	108	108	14.58	0-1	0.0
	216	0	14.52		0.0
DFT-s-OFDM 16QAM	1	1	14.36	0-1	0.0
CP-OFDM QPSK	1	1	14.37	0-1.5	0.0

8.3.1 NR Band n30 Antenna 1

Table 8-63
NR Band n30 Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 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	22.41	0	0.0
	1	26	22.37		0.0
	1	50	22.30		0.0
	25	0	21.30	0-1	1.0
	25	14	22.27	0	0.0
	25	27	21.25	0-1	1.0
	50	0	21.26		1.0
DFT-s-OFDM 16QAM	1	1	21.35	0-1	1.0
CP-OFDM QPSK	1	1	20.70	0-1.5	1.5

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Table 8-64
NR Band n30 Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.59	0	0.0
	1	26	10.56		0.0
	1	50	10.50		0.0
	25	0	10.51	0-1	0.0
	25	14	10.55	0	0.0
	25	27	10.49	0-1	0.0
	50	0	10.53		0.0
DFT-s-OFDM 16QAM	1	1	10.54	0-1	0.0
CP-OFDM QPSK	1	1	10.56	0-1.5	0.0

8.3.1 NR Band n30 Antenna 4

Table 8-65
NR Band n30 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.72	0	0.0
	1	26	23.76		0.0
	1	50	23.78		0.0
	25	0	22.71	0-1	1.0
	25	14	23.61	0	0.0
	25	27	22.72	0-1	1.0
	50	0	22.73		1.0
DFT-s-OFDM 16QAM	1	1	22.91	0-1	1.0
CP-OFDM QPSK	1	1	22.36	0-1.5	1.5

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Table 8-66
NR Band n30 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.98	0	0.0
	1	26	12.05		0.0
	1	50	12.09		0.0
	25	0	11.94	0-1	0.0
	25	14	12.03	0	0.0
	25	27	11.97	0-1	0.0
	50	0	11.99		0.0
DFT-s-OFDM 16QAM	1	1	12.18	0-1	0.0
CP-OFDM QPSK	1	1	12.09	0-1.5	0.0

8.3.1 NR Band n41 Antenna 1

Table 8-67
NR Band n41 Antenna 1 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.28	0	0.0
	1	137	24.16		0.0
	1	271	24.05		0.0
	135	0	23.36	0-1	1.0
	135	69	24.29	0	0.0
	135	138	23.23	0-1	1.0
	270	0	23.26		1.0
DFT-s-OFDM 16QAM	1	1	23.25	0-1	1.0
CP-OFDM QPSK	1	1	22.90	0-1.5	1.5

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Table 8-68
NR Band n41 Antenna 1 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.45	0	0.0
	1	137	11.15		0.0
	1	271	10.93		0.0
	135	0	11.46	0-1	0.0
	135	69	11.04	0	0.0
	135	138	11.05	0-1	0.0
	270	0	11.37		0.0
DFT-s-OFDM 16QAM	1	1	11.04	0-1	0.0
CP-OFDM QPSK	1	1	11.37	0-1.5	0.0

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8.3.2 NR Band n41 Antenna 4

Table 8-69
NR Band n41 Antenna 4 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.10	0	0.0
	1	137	24.19		0.0
	1	271	24.07		0.0
	135	0	23.18	0-1	1.0
	135	69	24.08	0	0.0
	135	138	23.14	0-1	1.0
	270	0	23.23		1.0
DFT-s-OFDM 16QAM	1	1	23.22	0-1	1.0
CP-OFDM QPSK	1	1	22.65	0-1.5	1.5

Table 8-70
NR Band n41 Antenna 4 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.78	0	0.0
	1	137	11.87		0.0
	1	271	11.70		0.0
	135	0	11.81	0-1	0.0
	135	69	11.82	0	0.0
	135	138	11.80	0-1	0.0
	270	0	11.80		0.0
DFT-s-OFDM 16QAM	1	1	11.79	0-1	0.0
CP-OFDM QPSK	1	1	11.80	0-1.5	0.0

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8.3.1 NR Band n48 Antenna 2

Table 8-71

NR Band n48 Antenna 2 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	20.02	20.42	20.45	0	0.0
	1	53	20.04	20.48	20.41		0.0
	1	104	20.30	20.46	20.42		0.0
	50	0	19.14	19.49	19.35	0-1	1.0
	50	28	20.07	20.47	20.41	0	0.0
	50	56	19.12	19.48	19.41	0-1	1.0
	100	0	19.05	19.49	19.42		1.0
DFT-s-OFDM 16QAM	1	1	18.96	19.54	19.36	0-1	1.0
CP-OFDM QPSK	1	1	18.60	18.92	18.95	0-1.5	1.5

Table 8-72

NR Band n48 Antenna 2 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	9.15	9.56	9.89	0	0.0
	1	53	9.30	9.65	9.74		0.0
	1	104	9.55	9.67	9.88		0.0
	50	0	9.25	9.58	9.83	0-1	0.0
	50	28	9.38	9.62	9.67	0	0.0
	50	56	9.43	9.69	9.71	0-1	0.0
	100	0	9.30	9.63	9.68		0.0
DFT-s-OFDM 16QAM	1	1	9.12	9.81	9.81	0-1	0.0
CP-OFDM QPSK	1	1	9.21	9.70	9.82	0-1.5	0.0

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8.3.1 NR Band n48 Antenna 3

Table 8-73

NR Band n48 Antenna 3 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	19.94	20.17	20.04	0	0.0
	1	53	19.90	20.23	20.06		0.0
	1	104	20.10	20.16	20.13		0.0
	50	0	18.76	19.14	19.03	0-1	1.0
	50	28	19.93	20.06	20.05	0	0.0
	50	56	19.00	19.03	19.10	0-1	1.0
	100	0	18.92	19.07	19.06		1.0
DFT-s-OFDM 16QAM	1	1	18.88	19.11	19.10	0-1	1.0
CP-OFDM QPSK	1	1	18.23	18.58	18.61	0-1.5	1.5

Table 8-74

NR Band n48 Antenna 3 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	9.08	9.56	9.58	0	0.0
	1	53	9.26	9.48	9.54		0.0
	1	104	9.20	9.50	9.86		0.0
	50	0	9.24	9.61	9.48	0-1	0.0
	50	28	9.26	9.51	9.47	0	0.0
	50	56	9.30	9.46	9.64	0-1	0.0
	100	0	9.26	9.52	9.47		0.0
DFT-s-OFDM 16QAM	1	1	9.22	9.52	9.89	0-1	0.0
CP-OFDM QPSK	1	1	9.15	9.63	9.46	0-1.5	0.0

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8.3.2 NR Band n48 SRS Antennas 5 & 8

Table 8-75
NR Band n48 SRS Antennas 5 & 8 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Antenna	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS Ant 5	19.56	19.89	19.84
SRS Ant 8	19.15	19.28	19.27

Table 8-76
NR Band n48 SRS Antennas 5 & 8 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Antenna	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS Ant 5	0.84	0.87	0.66
SRS Ant 8	-1.35	-1.21	-1.36

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8.3.1 NR Band n77 Antenna 2

Table 8-77
NR Band n77 Antenna 2 Measured P_{Limit} for DSI = 3 (No Motion and/or Laptop) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	24.72	24.75	0	0.0
	1	137	24.58	24.66		0.0
	1	271	24.40	24.26		0.0
	135	0	24.48	24.57	0-1	0.0
	135	69	24.49	24.59	0	0.0
	135	138	24.39	24.51	0-1	0.0
	270	0	24.54	24.50		0.0
DFT-s-OFDM 16QAM	1	1	24.39	24.75	0-1	0.0
CP-OFDM QPSK	1	1	24.66	24.88	0-1.5	0.0

Table 8-78
NR Band n77 Antenna 2 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.58	9.36	0	0.0
	1	137	9.37	9.38		0.0
	1	271	9.12	9.23		0.0
	135	0	9.52	9.50	0-1	0.0
	135	69	9.45	9.51	0	0.0
	135	138	9.15	9.33	0-1	0.0
	270	0	9.32	9.30		0.0
DFT-s-OFDM 16QAM	1	1	9.51	9.49	0-1	0.0
CP-OFDM QPSK	1	1	9.53	9.33	0-1.5	0.0

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Table 8-79

NR Band n77 Antenna 2 DoD Measured P_{Limit} for DSI = 3 (No Motion and/or Laptop) - 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	24.42	0	0.0
	1	137	24.23		0.0
	1	271	24.37		0.0
	135	0	24.35	0-1	0.0
	135	69	24.39	0	0.0
	135	138	24.38	0-1	0.0
	270	0	24.36		0.0
DFT-s-OFDM 16QAM	1	1	24.55	0-1	0.0
CP-OFDM QPSK	1	1	23.99	0-1.5	0.0

Table 8-80

NR Band n77 Antenna 2 DoD Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 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	9.17	0	0.0
	1	137	9.00		0.0
	1	271	9.26		0.0
	135	0	9.15	0-1	0.0
	135	69	9.05	0	0.0
	135	138	9.06	0-1	0.0
	270	0	9.08		0.0
DFT-s-OFDM 16QAM	1	1	9.21	0-1	0.0
CP-OFDM QPSK	1	1	9.23	0-1.5	0.0

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8.3.1 NR Band n77 Antenna 3

Table 8-81

NR Band n77 Antenna 3 Measured P_{Limit} for DSI = 3 (No Motion and/or Laptop) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	25.92	25.64	0	0.0
	1	137	26.06	25.84		0.0
	1	271	25.66	25.66		0.0
	135	0	25.15	24.89	0-1	1.0
	135	69	26.05	25.86	0	0.0
	135	138	24.89	24.88	0-1	1.0
	270	0	25.01	24.96		1.0
DFT-s-OFDM 16QAM	1	1	25.08	24.50	0-1	1.0
CP-OFDM QPSK	1	1	24.57	24.24	0-1.5	1.5

Table 8-82

NR Band n77 Antenna 3 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	11.34	11.04	0	0.0
	1	137	11.36	11.21		0.0
	1	271	11.04	11.08		0.0
	135	0	11.35	11.17	0-1	0.0
	135	69	11.24	11.27	0	0.0
	135	138	11.03	11.20	0-1	0.0
	270	0	11.20	11.17		0.0
DFT-s-OFDM 16QAM	1	1	11.07	11.05	0-1	0.0
CP-OFDM QPSK	1	1	11.21	11.13	0-1.5	0.0

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Table 8-83

NR Band n77 Antenna 3 DoD Measured P_{Limit} for DSI = 3 (No Motion and/or Laptop) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	25.65	0	0.0
	1	137	25.72		0.0
	1	271	25.80		0.0
	135	0	24.78	0-1	1.0
	135	69	25.66	0	0.0
	135	138	24.73	0-1	1.0
	270	0	24.75		1.0
DFT-s-OFDM 16QAM	1	1	24.74	0-1	1.0
CP-OFDM QPSK	1	1	24.25	0-1.5	1.5

Table 8-84

NR Band n77 Antenna 3 DoD Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.28	0	0.0
	1	137	11.22		0.0
	1	271	11.37		0.0
	135	0	11.18	0-1	0.0
	135	69	11.08	0	0.0
	135	138	11.11	0-1	0.0
	270	0	11.10		0.0
DFT-s-OFDM 16QAM	1	1	11.42	0-1	0.0
CP-OFDM QPSK	1	1	11.13	0-1.5	0.0

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8.3.2 NR Band n77 SRS Antennas 5 & 8

Table 8-85
NR Band n77 SRS Antennas 5, 8 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS Ant 5	24.76	24.54
SRS Ant 8	24.46	24.41

Table 8-86
NR Band n77 SRS Antennas 5, 8 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS Ant 5	0.78	0.40
SRS Ant 8	-1.90	-2.08

Table 8-87
NR Band n77 SRS DoD Antennas 5, 8 Measured P_{Max} for DSI = 3 (No Motion and/or Laptop) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS Ant 5	24.78
SRS Ant 8	24.50

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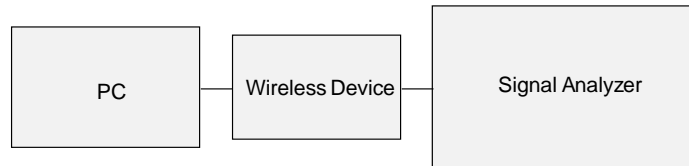
Table 8-88

NR Band n77 SRS DoD Antennas 5, 8 Measured P_{Limit} for DSI = 6 (Motion and Tablet) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS Ant 5	0.78
SRS Ant 8	-1.71



**Figure 8-3
Power Measurement Setup – NR Online**



**Figure 8-4
Power Measurement Setup – NR FTM**

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8.4 WLAN Conducted Powers

Table 8-89
2.4 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (No Motion and/or Laptop) – Ant 6

2.4GHz WIFI (20MHz 802.11b SISO ANT6)				
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	
2412	1	Average	17.79	
2417	2		20.35	
2422	3		20.65	
2437	6		20.72	
2447	8		20.44	
2452	9		19.84	
2457	10		20.26	
2462	11		15.59	
2.4GHz WIFI (20MHz 802.11g SISO ANT6)				
Freq. [MHz]	Channel		Detector	Conducted Power [dBm]
2412	1	Average	16.99	
2417	2		20.10	
2422	3		20.01	
2437	6		20.11	
2447	8		19.91	
2452	9		18.12	
2457	10		17.32	
2462	11		15.83	
2.4GHz WIFI (20MHz 802.11n SISO ANT6)				
Freq. [MHz]	Channel		Detector	Conducted Power [dBm]
2412	1	Average	10.77	
2417	2		16.75	
2422	3		19.18	
2437	6		19.27	
2447	8		19.19	
2452	9		17.52	
2457	10		16.80	
2462	11		13.41	
2.4GHz WIFI (20MHz 802.11ac SISO ANT6)				
Freq. [MHz]	Channel		Detector	Conducted Power [dBm]
2412	1	Average	10.77	
2417	2		17.32	
2422	3		19.21	
2437	6		19.27	
2447	8		19.17	
2452	9		17.65	
2457	10		17.31	
2462	11		13.92	
2.4GHz WIFI (20MHz 802.11ax SISO ANT6)				
Freq. [MHz]	Channel		Detector	Conducted Power [dBm]
2412	1	Average	10.91	
2417	2		16.88	
2422	3		19.22	
2437	6		19.34	
2447	8		19.27	
2452	9		17.65	
2457	10		16.90	
2462	11		13.48	
2.4GHz WIFI (20MHz 802.11be SISO ANT6)				
Freq. [MHz]	Channel		Detector	Conducted Power [dBm]
2412	1	Average	10.90	
2417	2		16.89	
2422	3		19.19	
2437	6		19.35	
2447	8		19.25	
2452	9		17.63	
2457	10		16.90	
2462	11		13.52	

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Table 8-90
2.4 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (No Motion and/or Laptop) – Ant 7

2.4GHz WIFI (20MHz 802.11b SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.52
2417	2		20.09
2422	3		20.54
2437	6		20.55
2457	10		20.10
2462	11		15.92
2.4GHz WIFI (20MHz 802.11g SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.26
2417	2		19.93
2422	3		20.24
2437	6		20.02
2457	10		17.09
2462	11		15.79
2.4GHz WIFI (20MHz 802.11n SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.21
2417	2		16.78
2422	3		19.33
2437	6		19.49
2457	10		16.78
2462	11		13.27
2.4GHz WIFI (20MHz 802.11ac SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.22
2417	2		16.77
2422	3		19.33
2437	6		19.50
2457	10		16.78
2462	11		13.27
2.4GHz WIFI (20MHz 802.11ax SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.30
2417	2		16.89
2422	3		19.43
2437	6		19.59
2457	10		16.88
2462	11		13.39
2.4GHz WIFI (20MHz 802.11be SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.32
2417	2		16.89
2422	3		19.43
2437	6		19.58
2457	10		16.88
2462	11		13.35

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Table 8-91
2.4 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Motion and Tablet) – Ant 6

2.4GHz WIFI (20MHz 802.11b SISO ANT6)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.67
2437	6		14.63
2462	11		14.68
2.4GHz WIFI (20MHz 802.11g SISO ANT6)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.16
2437	6		14.28
2462	11		14.21
2.4GHz WIFI (20MHz 802.11n SISO ANT6)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.77
2417	2		14.20
2437	6		14.30
2457	10		14.23
2462	11		13.41
2.4GHz WIFI (20MHz 802.11ac SISO ANT6)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.77
2417	2		14.20
2437	6		14.31
2457	10		14.22
2462	11		13.92
2.4GHz WIFI (20MHz 802.11ax SISO ANT6)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.91
2417	2		13.77
2437	6		13.77
2457	10		13.78
2462	11		13.48
2.4GHz WIFI (20MHz 802.11be SISO ANT6)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.90
2417	2		13.76
2437	6		13.81
2457	10		13.77
2462	11		13.52

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Table 8-92
2.4 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Motion and Tablet) – Ant 7

2.4GHz WIFI (20MHz 802.11b SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.17
2437	6		14.31
2462	11		14.19
2.4GHz WIFI (20MHz 802.11g SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.53
2437	6		13.59
2462	11		13.64
2.4GHz WIFI (20MHz 802.11n SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.52
2417	2		13.95
2437	6		13.61
2457	10		14.08
2462	11		13.19
2.4GHz WIFI (20MHz 802.11ac SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.00
2417	2		13.95
2437	6		13.62
2457	10		13.61
2462	11		13.19
2.4GHz WIFI (20MHz 802.11ax SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.08
2417	2		13.58
2437	6		13.69
2457	10		13.71
2462	11		13.28
2.4GHz WIFI (20MHz 802.11be SISO ANT7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.10
2417	2		13.56
2437	6		13.69
2457	10		13.70
2462	11		13.26

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Table 8-93

5 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (No Motion and/or Laptop) – Ant 6

5GHz WIFI (20MHz 802.11a SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	18.33
	5200	40	18.43
	5220	44	18.10
	5240	48	18.19
UNII-2A	5260	52	18.05
	5280	56	18.21
	5300	60	18.12
	5320	64	18.08
5GHz WIFI (20MHz 802.11n SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	18.36
	5200	40	18.95
	5220	44	18.66
	5240	48	18.73
UNII-2A	5260	52	18.51
	5280	56	18.82
	5300	60	18.56
	5320	64	18.69
5GHz WIFI (20MHz 802.11ac SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	18.32
	5200	40	18.96
	5220	44	18.68
	5240	48	18.72
UNII-2A	5260	52	18.60
	5280	56	18.76
	5300	60	18.59
	5320	64	18.68
5GHz WIFI (20MHz 802.11ax SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	18.53
	5200	40	18.65
	5220	44	18.79
	5240	48	18.96
UNII-2A	5260	52	18.71
	5280	56	18.93
	5300	60	18.76
	5320	64	18.91
5GHz WIFI (20MHz 802.11be SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	18.50
	5200	40	18.59
	5220	44	18.84
	5240	48	18.93
UNII-2A	5260	52	18.74
	5280	56	18.90
	5300	60	18.76
	5320	64	18.80

5GHz WIFI (80MHz 802.11ac SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	15.99
	5610	122	18.71
	5690	138	18.65
5GHz WIFI (80MHz 802.11ax SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	15.98
	5610	122	18.65
	5690	138	18.70
5GHz WIFI (80MHz 802.11be SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	15.99
	5610	122	18.68
	5690	138	18.65

5GHz WIFI (40MHz 802.11n SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-3	5755	151	19.93
	5795	159	20.12
UNII-4	5835	167	20.55
	5875	175	20.59
5GHz WIFI (40MHz 802.11ac SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-3	5755	151	19.95
	5795	159	20.07
UNII-4	5835	167	20.02
	5875	175	20.05
5GHz WIFI (40MHz 802.11ax SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-3	5755	151	19.97
	5795	159	20.06
UNII-4	5835	167	20.05
	5875	175	20.04
5GHz WIFI (40MHz 802.11be SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-3	5755	151	20.00
	5795	159	20.48
UNII-4	5835	167	20.34
	5875	175	20.29

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Table 8-94

5 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (No Motion and/or Laptop) – Ant 7

5GHz WIFI (20MHz 802.11a SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	18.25
	5200	40	18.28
	5220	44	18.14
	5240	48	18.23
UNII-2A	5260	52	18.31
	5280	56	18.39
	5300	60	18.01
	5320	64	18.63
5GHz WIFI (20MHz 802.11n SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	18.20
	5200	40	18.69
	5220	44	18.63
	5240	48	18.70
UNII-2A	5260	52	18.88
	5280	56	18.97
	5300	60	19.05
	5320	64	18.64
5GHz WIFI (20MHz 802.11ac SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	18.19
	5200	40	18.70
	5220	44	18.67
	5240	48	18.71
UNII-2A	5260	52	18.77
	5280	56	18.94
	5300	60	19.05
	5320	64	18.52
5GHz WIFI (20MHz 802.11ax SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	18.36
	5200	40	18.73
	5220	44	18.75
	5240	48	18.82
UNII-2A	5260	52	18.86
	5280	56	19.06
	5300	60	18.52
	5320	64	18.71
5GHz WIFI (20MHz 802.11be SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	18.31
	5200	40	18.74
	5220	44	18.69
	5240	48	18.87
UNII-2A	5260	52	18.90
	5280	56	18.97
	5300	60	18.57
	5320	64	18.61

5GHz WIFI (80MHz 802.11ac SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	15.92
	5610	122	18.68
	5690	138	18.67
5GHz WIFI (80MHz 802.11ax SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	15.91
	5610	122	18.70
	5690	138	18.59
5GHz WIFI (80MHz 802.11be SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	15.93
	5610	122	18.60
	5690	138	18.61

5GHz WIFI (40MHz 802.11n SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-3	5755	151	19.93
	5795	159	20.46
UNII-4	5835	167	20.19
	5875	175	20.20
5GHz WIFI (40MHz 802.11ac SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-3	5755	151	19.30
	5795	159	20.36
UNII-4	5835	167	20.41
	5875	175	20.27
5GHz WIFI (40MHz 802.11ax SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-3	5755	151	19.95
	5795	159	20.42
UNII-4	5835	167	20.34
	5875	175	20.29
5GHz WIFI (20MHz 802.11be SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-3	5755	151	19.82
	5795	159	20.22
UNII-4	5835	167	20.23
	5875	175	20.97

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Table 8-95
5 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Motion and Tablet) – Ant 6

5GHz WIFI (80MHz 802.11ac SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.79
UNII-2A	5290	58	7.56
UNII-2C	5530	106	7.11
	5610	122	7.28
	5690	138	7.18
UNII-3	5775	155	6.56
UNII-4	5885	171	6.55
5GHz WIFI (80MHz 802.11ax SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.24
UNII-2A	5290	58	8.25
UNII-2C	5530	106	7.32
	5610	122	7.18
	5690	138	7.02
UNII-3	5775	155	6.77
UNII-4	5885	171	6.85
5GHz WIFI (80MHz 802.11be SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.28
UNII-2A	5290	58	8.29
UNII-2C	5530	106	7.36
	5610	122	7.21
	5690	138	7.06
UNII-3	5775	155	6.84
UNII-4	5885	171	6.90

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Table 8-96
5 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Motion and Tablet) – Ant 7

5GHz WIFI (80MHz 802.11ac SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.07
UNII-2A	5290	58	7.01
UNII-2C	5530	106	7.33
	5610	122	7.00
	5690	138	6.92
UNII-3	5775	155	6.71
UNII-4	5885	171	7.01
5GHz WIFI (80MHz 802.11ax SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.14
UNII-2A	5290	58	7.40
UNII-2C	5530	106	7.12
	5610	122	7.93
	5690	138	7.69
UNII-3	5775	155	6.81
UNII-4	5885	171	7.43
5GHz WIFI (80MHz 802.11be SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.16
UNII-2A	5290	58	7.44
UNII-2C	5530	106	7.17
	5610	122	7.94
	5690	138	7.71
UNII-3	5775	155	6.85
UNII-4	5885	171	6.98

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Table 8-97

6 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (No Motion and/or Laptop) – Ant 6

6GHz WIFI (80MHz 802.11ax SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	19.55
	6305	71	19.55
UNII-7	6705	151	19.13
6GHz WIFI (80MHz 802.11be SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	19.51
	6305	71	19.24
UNII-7	6705	151	19.24

6GHz WIFI (320MHz 802.11be SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6425	95	10.41
UNII-8	6905	191	9.59

Table 8-98

6 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (No Motion and/or Laptop) – Ant 7

6GHz WIFI (80MHz 802.11ax SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	19.28
	6305	71	19.41
UNII-7	6705	151	19.16
6GHz WIFI (80MHz 802.11be SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	19.22
	6305	71	19.41
UNII-7	6705	151	19.14

6GHz WIFI (320MHz 802.11be SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6425	95	10.86
UNII-8	6905	191	10.18

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Table 8-99

6 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Motion and Tablet) – Ant 6

6GHz WIFI (80MHz 802.11ax SISO ANT6)				6GHz WIFI (320MHz 802.11be SISO ANT6)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	7.20	UNII-6	6425	95	6.73
	6305	71	7.10				
UNII-7	6705	151	7.25	UNII-8	6905	191	8.08

Table 8-100

6 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Motion and Tablet) – Ant 7

6GHz WIFI (80MHz 802.11ax SISO ANT7)				6GHz WIFI (320MHz 802.11be SISO ANT7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	7.15	UNII-6	6425	95	6.98
	6305	71	7.18				
UNII-7	6705	151	7.11	UNII-8	6905	191	7.26

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

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

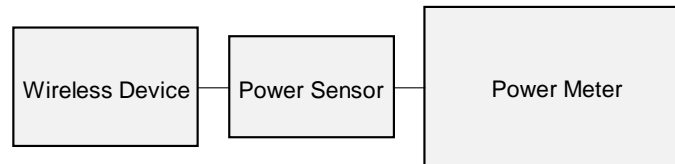


Figure 8-5
Power Measurement Setup

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8.5 Bluetooth Conducted Powers

Table 8-101
Bluetooth Maximum Average RF Power – Ant 6

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	19.75	94.406
2441	1.0	GFSK	ePA	39	20.48	111.686
2480	1.0	GFSK	ePA	78	19.84	96.383

Table 8-102
Bluetooth LE Maximum Average RF Power – Ant 6

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	20.57	113.894
2440	1 Mbps	17	LE	21.38	137.278
2480	1 Mbps	39	LE	20.51	112.409

Table 8-103
Bluetooth Maximum Average RF Power – Ant 7

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	19.47	88.512
2441	1.0	GFSK	ePA	39	20.48	111.686
2480	1.0	GFSK	ePA	78	19.88	97.275

Table 8-104
Bluetooth LE Maximum Average RF Power – Ant 7

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	20.28	106.758
2440	1 Mbps	17	LE	21.08	128.086
2480	1 Mbps	39	LE	20.49	111.892

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Table 8-105
Bluetooth Reduced Average RF Power in Tablet Mode – Ant 6

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	13.92	24.660
2441	1.0	GFSK	ePA	39	14.52	28.314
2480	1.0	GFSK	ePA	78	13.32	21.478

Table 8-106
Bluetooth Reduced Average RF Power in Tablet Mode – Ant 7

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	12.70	18.621
2441	1.0	GFSK	ePA	39	13.81	24.044
2480	1.0	GFSK	ePA	78	12.60	18.197

Table 8-107
Bluetooth Reduced Average RF Power in Tablet Mode with WLAN Active – Ant 6

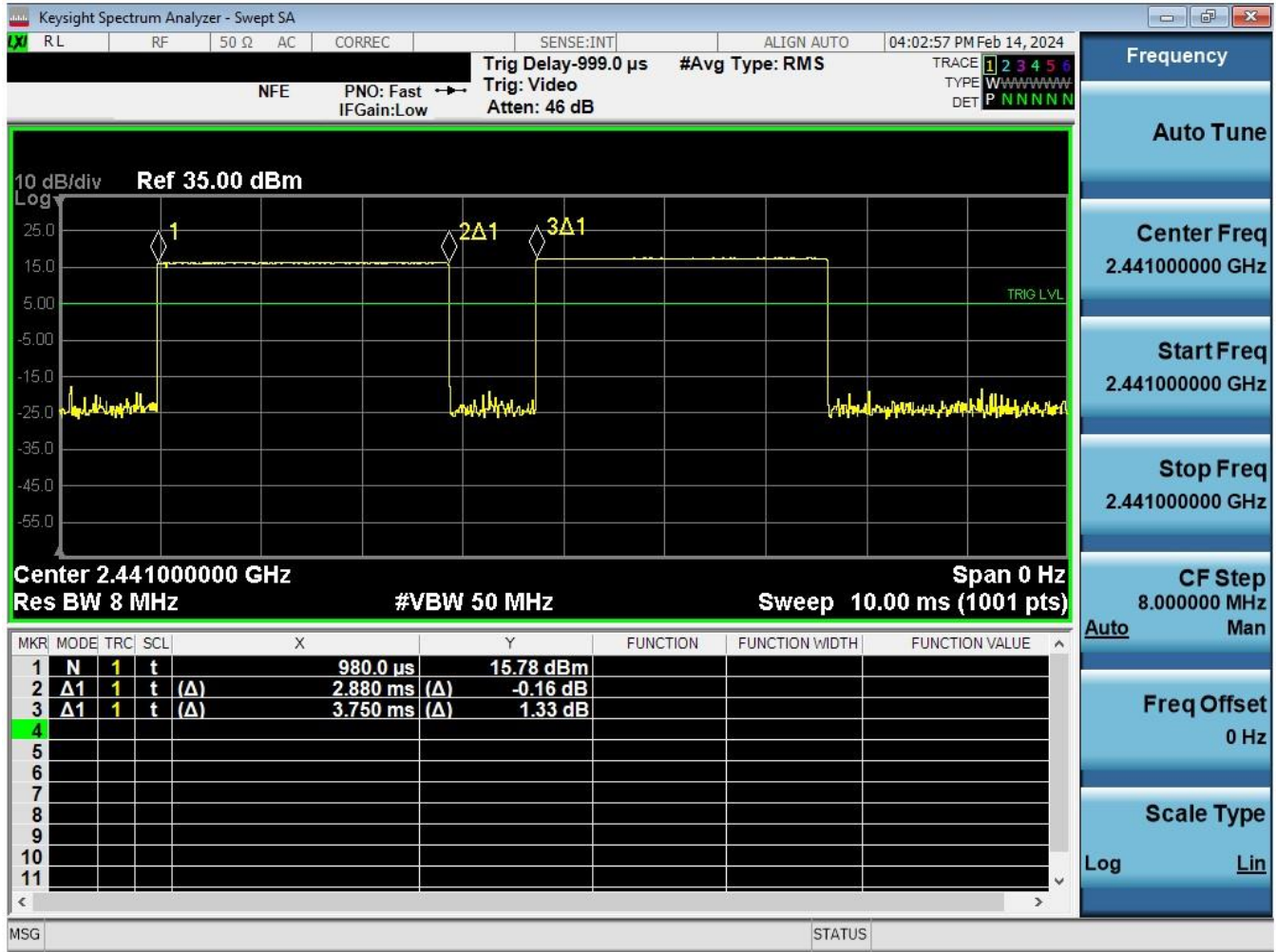
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	9.54	8.995
2441	1.0	GFSK	ePA	39	9.99	9.977
2480	1.0	GFSK	ePA	78	9.22	8.356

Table 8-108
Bluetooth Reduced Average RF Power in Tablet Mode with WLAN Active – Ant 7

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	8.47	7.031
2441	1.0	GFSK	ePA	39	9.72	9.376
2480	1.0	GFSK	ePA	78	8.49	7.063

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Figure 8-6
Bluetooth Transmission Plot – Ant 6

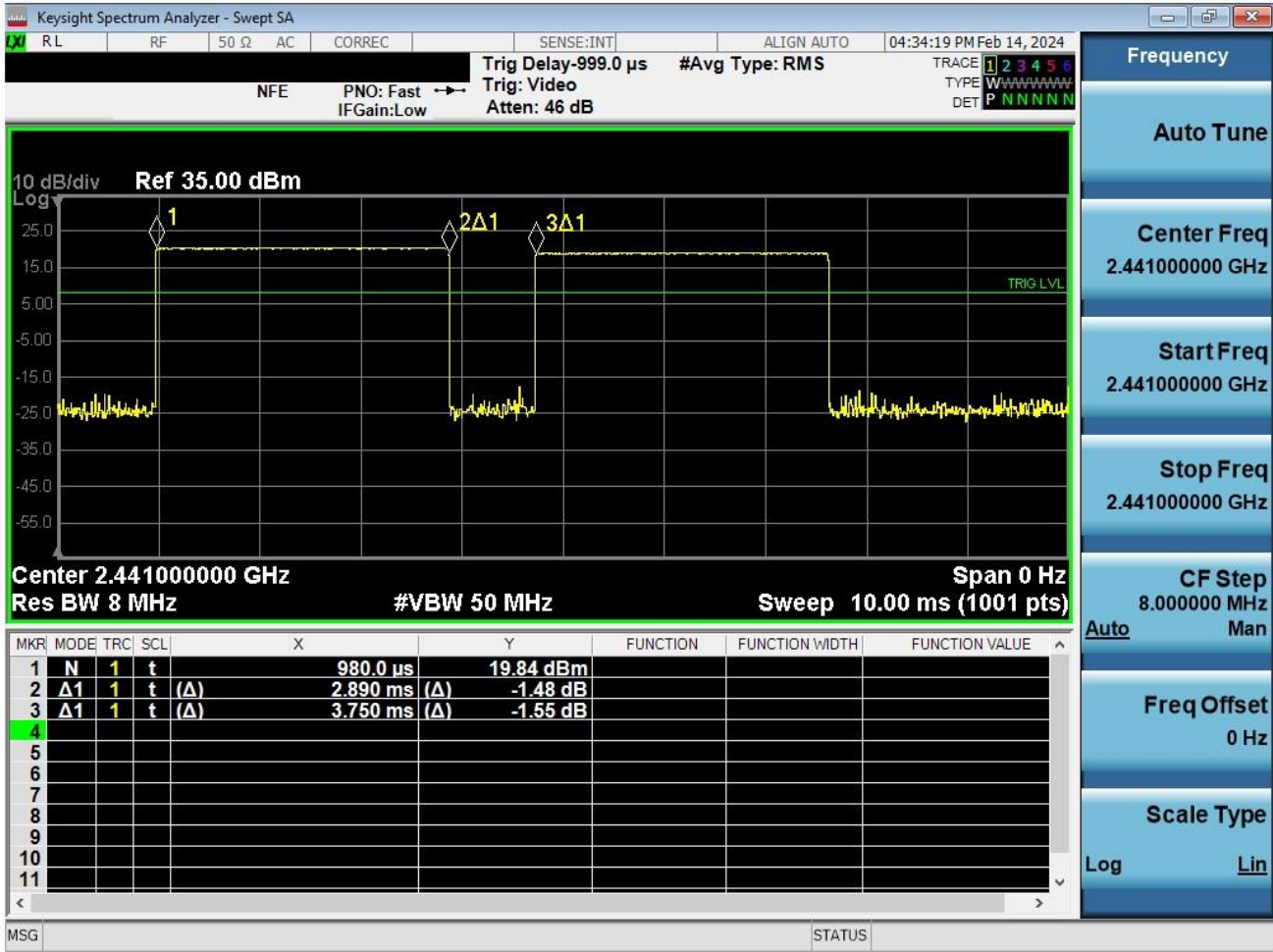


Equation 8-1
Bluetooth Antenna 6 Duty Cycle Calculation

$$Duty Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.88ms}{3.75ms} * 100\% = 76.8\%$$

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Figure 8-7
Bluetooth Transmission Plot – Ant 7



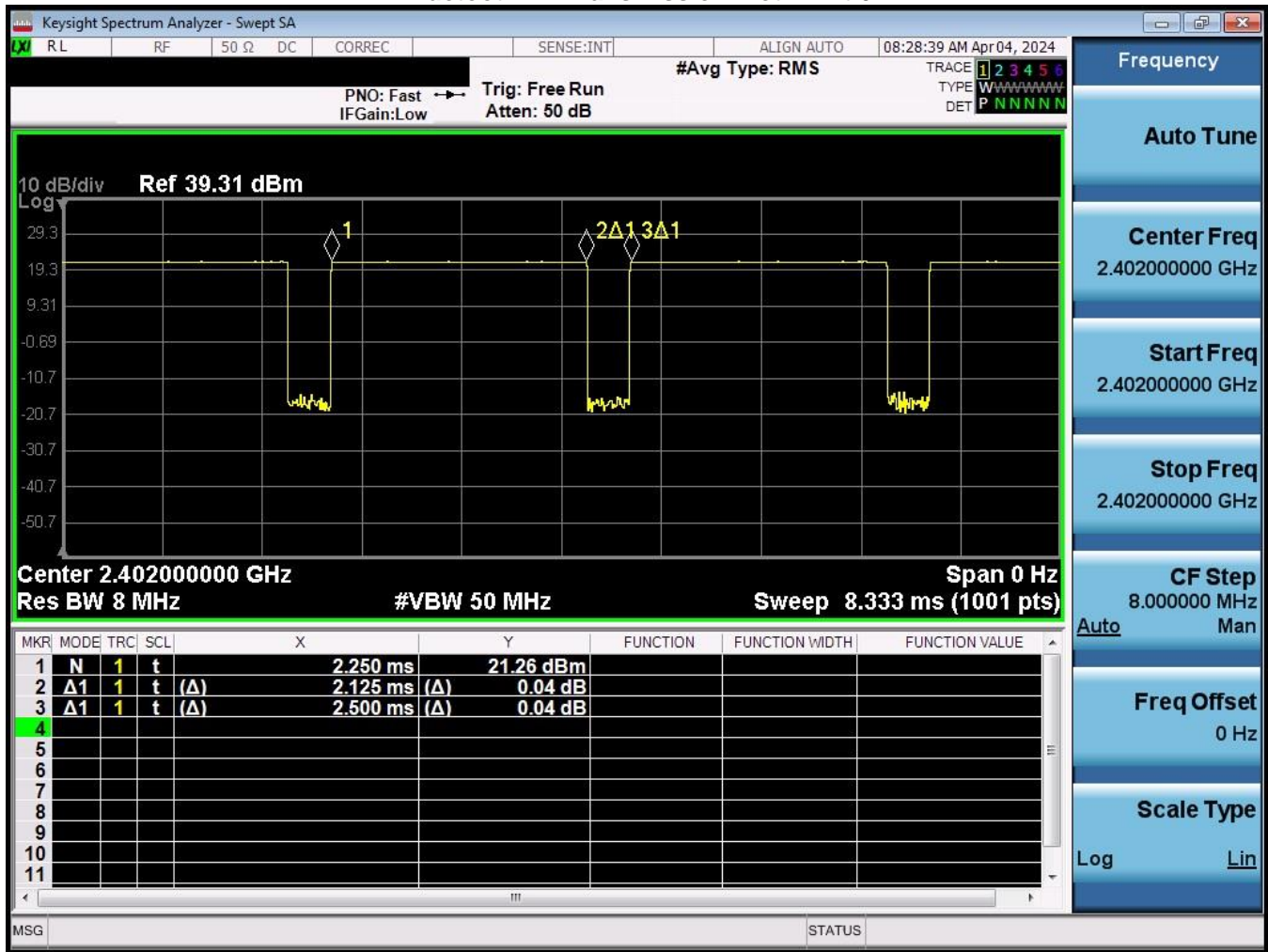
Equation 8-2
Bluetooth Antenna 7 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.89ms}{3.75ms} * 100\% = 77.1\%$$

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Figure 8-8
Bluetooth LE Transmission Plot – Ant 6

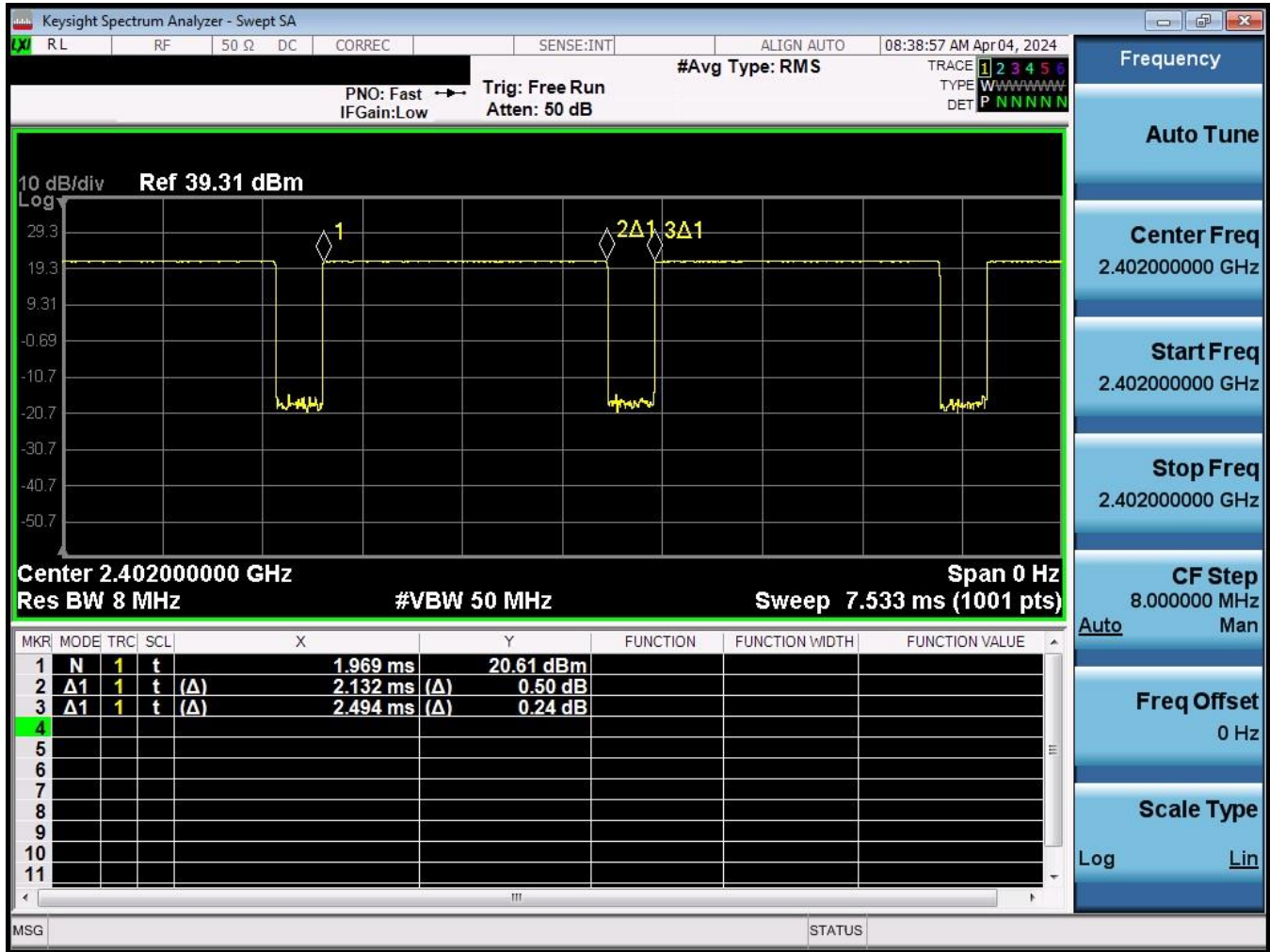


Equation 8-3
Bluetooth LE Antenna 6 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.125ms}{2.500ms} * 100\% = 85.0\%$$

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Figure 8-9
Bluetooth LE Transmission Plot – Ant 7



Equation 8-4
Bluetooth LE Antenna 7 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.132ms}{2.494ms} * 100\% = 85.5\%$$

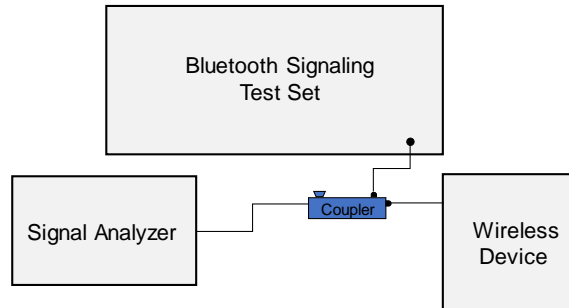


Figure 8-10
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

**Table 9-1
Measured Head Tissue Properties**

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
01/15/2024	750 Head	19.7	680	0.848	40.378	0.888	42.305	-4.50%	-4.56%
			695	0.853	40.335	0.889	42.227	-4.05%	-4.48%
			700	0.855	40.324	0.889	42.201	-3.82%	-4.45%
			710	0.858	40.295	0.890	42.149	-3.60%	-4.40%
			725	0.862	40.260	0.891	42.071	-3.25%	-4.30%
			750	0.871	40.201	0.894	41.942	-2.57%	-4.15%
			770	0.880	40.115	0.895	41.838	-1.68%	-4.12%
			785	0.886	40.065	0.896	41.760	-1.12%	-4.06%
			800	0.891	40.016	0.897	41.682	-0.67%	-4.00%
			01/26/2024	750 Head	21.8	680	0.869	41.117	0.888
695	0.875	41.073				0.889	42.227	-1.57%	-2.73%
700	0.876	41.057				0.889	42.201	-1.46%	-2.71%
710	0.880	41.025				0.890	42.149	-1.12%	-2.67%
725	0.886	40.975				0.891	42.071	-0.56%	-2.61%
750	0.894	40.908				0.894	41.942	0.00%	-2.47%
770	0.900	40.868				0.895	41.838	0.56%	-2.32%
785	0.904	40.830				0.896	41.760	0.89%	-2.23%
800	0.910	40.789				0.897	41.682	1.45%	-2.14%
01/29/2024	750 Head	21.5				680	0.845	41.295	0.888
			695	0.851	41.265	0.889	42.227	-4.27%	-2.28%
			700	0.853	41.256	0.889	42.201	-4.05%	-2.24%
			710	0.857	41.238	0.890	42.149	-3.71%	-2.16%
			725	0.862	41.198	0.891	42.071	-3.25%	-2.08%
			750	0.871	41.099	0.894	41.942	-2.57%	-2.01%
			770	0.877	41.029	0.895	41.838	-2.01%	-1.93%
			785	0.883	40.987	0.896	41.760	-1.45%	-1.85%
			800	0.888	40.957	0.897	41.682	-1.00%	-1.74%
			02/05/2024	750 Head	21.5	680	0.882	41.654	0.888
695	0.887	41.613				0.889	42.227	-0.22%	-1.45%
700	0.888	41.597				0.889	42.201	-0.11%	-1.43%
710	0.890	41.562				0.890	42.149	0.00%	-1.39%
725	0.894	41.525				0.891	42.071	0.34%	-1.30%
750	0.904	41.488				0.894	41.942	1.12%	-1.08%
770	0.913	41.408				0.895	41.838	2.01%	-1.03%
785	0.919	41.364				0.896	41.760	2.57%	-0.95%
800	0.924	41.304				0.897	41.682	3.01%	-0.91%
02/07/2024	750 Head	20.8				680	0.856	40.353	0.888
			695	0.861	40.300	0.889	42.227	-3.15%	-4.56%
			700	0.863	40.282	0.889	42.201	-2.92%	-4.55%
			710	0.866	40.248	0.890	42.149	-2.70%	-4.51%
			725	0.870	40.205	0.891	42.071	-2.36%	-4.44%
			750	0.880	40.150	0.894	41.942	-1.57%	-4.27%
			770	0.887	40.083	0.895	41.838	-0.89%	-4.19%
			785	0.892	40.033	0.896	41.760	-0.45%	-4.14%
			800	0.897	39.980	0.897	41.682	0.00%	-4.08%
			02/13/2024	750 Head	21.3	680	0.870	40.241	0.888
695	0.875	40.189				0.889	42.227	-1.57%	-4.83%
700	0.877	40.173				0.889	42.201	-1.35%	-4.81%
710	0.880	40.140				0.890	42.149	-1.12%	-4.77%
725	0.884	40.100				0.891	42.071	-0.79%	-4.68%
750	0.894	40.044				0.894	41.942	0.00%	-4.53%
770	0.902	39.968				0.895	41.838	0.78%	-4.47%
785	0.908	39.920				0.896	41.760	1.34%	-4.41%
800	0.913	39.872				0.897	41.682	1.78%	-4.34%
02/15/2024	750 Head	20.8				680	0.856	41.551	0.888
			695	0.861	41.510	0.889	42.227	-3.15%	-1.70%
			700	0.863	41.495	0.889	42.201	-2.92%	-1.67%
			710	0.866	41.465	0.890	42.149	-2.70%	-1.62%
			725	0.872	41.415	0.891	42.071	-2.13%	-1.56%
			750	0.881	41.342	0.894	41.942	-1.45%	-1.43%
			770	0.888	41.280	0.895	41.838	-0.78%	-1.33%
			785	0.893	41.233	0.896	41.760	-0.33%	-1.26%
			800	0.898	41.186	0.897	41.682	0.11%	-1.19%
			02/20/2024	750 Head	21.4	680	0.855	41.193	0.888
695	0.860	41.149				0.889	42.227	-3.26%	-2.55%
700	0.862	41.138				0.889	42.201	-3.04%	-2.52%
710	0.865	41.116				0.890	42.149	-2.81%	-2.45%
725	0.870	41.088				0.891	42.071	-2.36%	-2.34%
750	0.879	41.027				0.894	41.942	-1.68%	-2.18%
770	0.886	40.937				0.895	41.838	-1.01%	-2.15%
785	0.891	40.882				0.896	41.760	-0.56%	-2.10%

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**Table 9-2
Measured Head Tissue Properties**

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
01/17/2024	835 Head	20.6	815	0.881	40.851	0.898	41.594	-1.89%	-1.79%
			820	0.883	40.836	0.899	41.578	-1.78%	-1.78%
			835	0.889	40.789	0.900	41.500	-1.22%	-1.71%
			850	0.895	40.752	0.916	41.500	-2.29%	-1.80%
01/19/2024	835 Head	19.2	815	0.907	40.113	0.898	41.594	1.00%	-3.56%
			820	0.908	40.092	0.899	41.578	1.00%	-3.57%
			835	0.913	40.039	0.900	41.500	1.44%	-3.52%
			850	0.919	40.003	0.916	41.500	0.33%	-3.61%
02/06/2024	835 Head	19.2	815	0.877	42.258	0.898	41.594	-2.34%	1.60%
			820	0.879	42.233	0.899	41.578	-2.22%	1.58%
			835	0.885	42.168	0.900	41.500	-1.67%	1.61%
			850	0.892	42.118	0.916	41.500	-2.62%	1.49%
02/13/2024	835 Head	19.0	820	0.859	40.068	0.899	41.578	-4.45%	-3.63%
			835	0.875	39.913	0.900	41.500	-2.78%	-3.82%
			850	0.885	39.746	0.916	41.500	-3.38%	-4.23%
			815	0.881	43.472	0.898	41.594	-1.89%	4.52%
02/19/2024	835 Head	19.6	820	0.886	43.401	0.899	41.578	-1.45%	4.38%
			835	0.902	43.205	0.900	41.500	0.22%	4.11%
			850	0.917	43.029	0.916	41.500	0.11%	3.68%
			815	0.865	40.970	0.898	41.594	-3.67%	-1.50%
02/21/2024	835 Head	19.6	820	0.870	40.897	0.899	41.578	-3.23%	-1.64%
			835	0.884	40.688	0.900	41.500	-1.78%	-1.96%
			850	0.898	40.493	0.916	41.500	-1.97%	-2.43%
			1700	1.323	40.663	1.343	40.145	-1.49%	1.29%
01/15/2024	1750 Head	21.1	1705	1.326	40.656	1.345	40.141	-1.41%	1.28%
			1710	1.329	40.649	1.348	40.136	-1.41%	1.28%
			1720	1.334	40.631	1.354	40.126	-1.48%	1.26%
			1745	1.349	40.579	1.368	40.087	-1.39%	1.23%
			1750	1.352	40.569	1.371	40.079	-1.39%	1.22%
			1770	1.364	40.535	1.383	40.047	-1.37%	1.22%
			1790	1.376	40.508	1.394	40.016	-1.29%	1.23%
			1700	1.321	41.287	1.343	40.145	-1.64%	2.84%
			1705	1.324	41.281	1.345	40.141	-1.56%	2.84%
			1710	1.327	41.276	1.348	40.136	-1.56%	2.84%
			1720	1.332	41.264	1.354	40.126	-1.62%	2.84%
			01/23/2024	1750 Head	20.3	1745	1.347	41.225	1.368
1750	1.351	41.217				1.371	40.079	-1.46%	2.84%
1770	1.363	41.190				1.383	40.047	-1.45%	2.85%
1790	1.375	41.158				1.394	40.016	-1.36%	2.85%
1700	1.331	38.823				1.343	40.145	-0.89%	-3.29%
1705	1.335	38.793				1.345	40.141	-0.74%	-3.36%
1710	1.340	38.764				1.348	40.136	-0.59%	-3.42%
1720	1.350	38.711				1.354	40.126	-0.30%	-3.53%
1745	1.377	38.596				1.368	40.087	0.66%	-3.72%
1750	1.383	38.577				1.371	40.079	0.88%	-3.75%
1770	1.404	38.503				1.383	40.047	1.52%	-3.86%
1790	1.423	38.419				1.394	40.016	2.08%	-3.99%
02/05/2024	1750 Head	19.5	1710	1.331	38.432	1.348	40.136	-1.26%	-4.25%
			1720	1.341	38.382	1.354	40.126	-0.96%	-4.35%
			1745	1.368	38.270	1.368	40.087	0.00%	-4.53%
			1750	1.373	38.248	1.371	40.079	0.15%	-4.57%
			1770	1.393	38.163	1.383	40.047	0.72%	-4.70%
			1790	1.413	38.074	1.394	40.016	1.36%	-4.85%
02/26/2024	1750 Head	19.0	1700	1.364	38.479	1.343	40.145	1.56%	-4.15%
			1705	1.369	38.454	1.345	40.141	1.78%	-4.20%
			1710	1.374	38.430	1.348	40.136	1.93%	-4.25%
			1720	1.385	38.382	1.354	40.126	2.29%	-4.35%
			1745	1.411	38.267	1.368	40.087	3.14%	-4.54%
			1750	1.417	38.243	1.371	40.079	3.36%	-4.58%
			1770	1.438	38.146	1.383	40.047	3.98%	-4.75%
			1790	1.460	38.047	1.394	40.016	4.73%	-4.92%
03/13/2024	1750 Head	21.6	1700	1.364	38.479	1.343	40.145	1.56%	-4.15%
			1705	1.369	38.454	1.345	40.141	1.78%	-4.20%
			1710	1.374	38.430	1.348	40.136	1.93%	-4.25%
			1720	1.385	38.382	1.354	40.126	2.29%	-4.35%
			1745	1.411	38.267	1.368	40.087	3.14%	-4.54%
			1750	1.417	38.243	1.371	40.079	3.36%	-4.58%
			1770	1.438	38.146	1.383	40.047	3.98%	-4.75%
			1790	1.460	38.047	1.394	40.016	4.73%	-4.92%

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**Table 9-3
Measured Head Tissue Properties**

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
01/29/2024	1900 Head	23.0	1850	1.390	41.189	1.400	40.000	-0.71%	2.97%
			1860	1.400	41.148	1.400	40.000	0.00%	2.87%
			1880	1.422	41.066	1.400	40.000	1.57%	2.67%
			1900	1.444	40.987	1.400	40.000	3.14%	2.47%
			1905	1.449	40.968	1.400	40.000	3.50%	2.42%
			1910	1.454	40.947	1.400	40.000	3.86%	2.37%
01/31/2024	1900 Head	22.9	1850	1.386	39.933	1.400	40.000	-1.00%	-0.17%
			1860	1.397	39.904	1.400	40.000	-0.21%	-0.24%
			1880	1.417	39.853	1.400	40.000	1.21%	-0.37%
			1900	1.436	39.784	1.400	40.000	2.57%	-0.54%
			1905	1.441	39.762	1.400	40.000	2.93%	-0.59%
			1910	1.445	39.739	1.400	40.000	3.21%	-0.65%
02/12/2024	1900 Head	21.3	1850	1.407	39.541	1.400	40.000	0.50%	-1.15%
			1860	1.415	39.461	1.400	40.000	1.07%	-1.35%
			1880	1.432	39.285	1.400	40.000	2.29%	-1.79%
			1900	1.453	39.156	1.400	40.000	3.79%	-2.11%
			1905	1.460	39.137	1.400	40.000	4.29%	-2.16%
			1910	1.466	39.123	1.400	40.000	4.71%	-2.19%
03/05/2024	1900 Head	21.6	1850	1.398	38.288	1.400	40.000	-0.14%	-4.28%
			1860	1.408	38.242	1.400	40.000	0.57%	-4.40%
			1880	1.430	38.149	1.400	40.000	2.14%	-4.63%
			1900	1.451	38.066	1.400	40.000	3.64%	-4.83%
			1905	1.456	38.045	1.400	40.000	4.00%	-4.89%
			1910	1.461	38.023	1.400	40.000	4.36%	-4.94%
02/01/2024	2450 Head	20.5	2400	1.833	40.731	1.756	39.289	4.38%	3.67%
			2450	1.875	40.634	1.800	39.200	4.17%	3.66%
			2480	1.898	40.569	1.833	39.162	3.55%	3.59%
			2500	1.915	40.526	1.855	39.136	3.23%	3.55%
			2510	1.923	40.507	1.866	39.123	3.05%	3.54%
			2535	1.945	40.453	1.893	39.092	2.75%	3.48%
			2550	1.959	40.420	1.909	39.073	2.62%	3.45%
			2560	1.967	40.399	1.920	39.060	2.45%	3.43%
			2600	2.000	40.327	1.964	39.009	1.83%	3.38%
			2650	2.043	40.206	2.018	38.945	1.24%	3.24%
			2680	2.069	40.156	2.051	38.907	0.88%	3.21%
			2700	2.085	40.125	2.073	38.882	0.58%	3.20%
			2400	1.726	39.902	1.756	39.289	-1.71%	1.56%
			2450	1.766	39.830	1.800	39.200	-1.89%	1.61%
			2480	1.789	39.776	1.833	39.162	-2.40%	1.57%
02/05/2024	2450 Head	19.0	2500	1.805	39.744	1.855	39.136	-2.70%	1.55%
			2510	1.814	39.725	1.866	39.123	-2.79%	1.54%
			2535	1.835	39.675	1.893	39.092	-3.06%	1.49%
			2550	1.849	39.647	1.909	39.073	-3.14%	1.47%
			2560	1.857	39.629	1.920	39.060	-3.28%	1.46%
			2600	1.889	39.567	1.964	39.009	-3.62%	1.43%
			2650	1.930	39.462	2.018	38.945	-4.36%	1.33%
			2680	1.955	39.411	2.051	38.907	-4.66%	1.30%
			2700	1.970	39.393	2.073	38.882	-4.97%	1.31%
			2300	1.718	40.039	1.670	39.500	2.87%	1.36%
			2310	1.729	40.003	1.679	39.480	2.98%	1.32%
			2320	1.741	39.967	1.687	39.460	3.20%	1.28%
			2400	1.790	39.245	1.756	39.289	1.94%	-0.11%
			2450	1.829	39.183	1.800	39.200	1.61%	-0.04%
			2480	1.850	39.148	1.833	39.162	0.93%	-0.04%
02/19/2024	2450 Head	21.8	2500	1.867	39.116	1.855	39.136	0.65%	-0.05%
			2400	1.804	40.127	1.756	39.289	2.73%	2.13%
			2450	1.848	40.032	1.800	39.200	2.67%	2.12%
			2480	1.873	39.975	1.833	39.162	2.18%	2.06%
			2500	1.889	39.941	1.855	39.136	1.83%	2.06%
			2400	1.832	39.653	1.756	39.289	4.33%	0.93%
02/22/2024	2450 Head	21.4	2400	1.772	38.577	1.756	39.289	0.91%	-1.81%
			2450	1.809	38.479	1.800	39.200	0.50%	-1.84%
			2480	1.833	38.438	1.833	39.162	0.00%	-1.85%
			2500	1.849	38.404	1.855	39.136	-0.32%	-1.87%
			2400	1.793	40.128	1.756	39.289	2.11%	2.14%
			2450	1.835	40.066	1.800	39.200	1.94%	2.21%
02/26/2024	2450 Head	19.1	2480	1.858	39.992	1.833	39.162	1.36%	2.12%
			2500	1.875	39.956	1.855	39.136	1.08%	2.10%
			2510	1.885	39.947	1.866	39.123	1.02%	2.11%
			2535	1.909	39.918	1.893	39.092	0.85%	2.11%
			2550	1.922	39.890	1.909	39.073	0.68%	2.09%
			2560	1.930	39.866	1.920	39.060	0.52%	2.06%
			2600	1.962	39.768	1.964	39.009	-0.10%	1.95%
			2650	2.008	39.691	2.018	38.945	-0.50%	1.92%
			2680	2.033	39.638	2.051	38.907	-0.88%	1.88%
			2700	2.047	39.600	2.073	38.882	-1.25%	1.85%
			2400	1.727	38.366	1.756	39.289	-1.65%	-2.35%
			2450	1.782	38.157	1.800	39.200	-1.00%	-2.66%
03/11/2024	2450 Head	21.4	2480	1.816	38.061	1.833	39.162	-0.93%	-2.81%
			2500	1.837	37.986	1.855	39.136	-0.97%	-2.94%
			2400	1.737	37.896	1.756	39.289	-1.08%	-3.55%
			2450	1.793	37.728	1.800	39.200	-0.39%	-3.76%
03/18/2024	2450 Head	24.0	2480	1.821	37.633	1.833	39.162	-0.65%	-3.90%
			2500	1.840	37.558	1.855	39.136	-0.81%	-4.03%

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**Table 9-4
Measured Head Tissue Properties**

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ			
02/14/2024	3600 Head	19.9	3300	2.628	38.286	2.708	38.157	-2.95%	0.34%			
			3350	2.672	38.203	2.759	38.100	-3.15%	0.27%			
			3450	2.764	38.023	2.861	37.986	-3.39%	0.10%			
			3500	2.811	37.908	2.913	37.929	-3.50%	-0.06%			
			3550	2.856	37.838	2.964	37.871	-3.64%	-0.09%			
			3560	2.866	37.817	2.974	37.860	-3.63%	-0.11%			
			3600	2.904	37.734	3.015	37.814	-3.68%	-0.21%			
			3650	2.950	37.659	3.066	37.757	-3.78%	-0.26%			
			3690	2.990	37.569	3.107	37.711	-3.77%	-0.38%			
			3700	3.000	37.554	3.117	37.700	-3.75%	-0.39%			
			3750	3.048	37.477	3.169	37.643	-3.82%	-0.44%			
			3900	3.198	37.208	3.323	37.471	-3.76%	-0.70%			
			3930	3.230	37.158	3.353	37.437	-3.67%	-0.75%			
			4100	3.406	36.868	3.528	37.243	-3.46%	-1.01%			
			4150	3.459	36.773	3.579	37.186	-3.35%	-1.11%			
			3300	2.585	39.746	2.708	38.157	-4.54%	4.16%			
			02/21/2024	3600 Head	19.0	3350	2.628	39.667	2.759	38.100	-4.75%	4.11%
3450	2.729	39.502				2.861	37.986	-4.61%	3.99%			
3500	2.775	39.383				2.913	37.929	-4.74%	3.83%			
3550	2.830	39.319				2.964	37.871	-4.52%	3.82%			
3560	2.837	39.306				2.974	37.860	-4.61%	3.82%			
3600	2.870	39.209				3.015	37.814	-4.81%	3.69%			
3650	2.932	39.112				3.066	37.757	-4.37%	3.59%			
3690	2.959	39.077				3.107	37.711	-4.76%	3.62%			
3700	2.969	39.042				3.117	37.700	-4.75%	3.56%			
3750	3.032	38.941				3.169	37.643	-4.32%	3.45%			
3900	3.178	38.701				3.323	37.471	-4.36%	3.28%			
3930	3.210	38.614				3.353	37.437	-4.26%	3.14%			
4100	3.401	38.367				3.528	37.243	-3.60%	3.02%			
4150	3.450	38.226				3.579	37.186	-3.60%	2.80%			
3300	2.629	38.982				2.708	38.157	-2.92%	2.16%			
03/04/2024	3600 Head	19.0				3350	2.675	38.899	2.759	38.100	-3.04%	2.10%
						3450	2.774	38.718	2.861	37.986	-3.04%	1.93%
			3500	2.822	38.599	2.913	37.929	-3.12%	1.77%			
			3550	2.870	38.546	2.964	37.871	-3.17%	1.78%			
			3560	2.878	38.523	2.974	37.860	-3.23%	1.75%			
			3600	2.918	38.440	3.015	37.814	-3.22%	1.66%			
			3650	2.965	38.365	3.066	37.757	-3.29%	1.61%			
			3690	3.000	38.279	3.107	37.711	-3.44%	1.51%			
			3700	3.010	38.251	3.117	37.700	-3.43%	1.46%			
			3750	3.065	38.180	3.169	37.643	-3.28%	1.43%			
			3900	3.222	37.914	3.323	37.471	-3.04%	1.18%			
			3930	3.258	37.855	3.353	37.437	-2.83%	1.12%			
			4100	3.435	37.583	3.528	37.243	-2.64%	0.91%			
			4150	3.495	37.491	3.579	37.186	-2.35%	0.82%			
			3300	2.607	38.092	2.708	38.157	-3.73%	-0.17%			
			03/13/2024	3600 Head	19.0	3350	2.655	38.006	2.759	38.100	-3.77%	-0.25%
						3450	2.754	37.812	2.861	37.986	-3.74%	-0.46%
3500	2.793	37.671				2.913	37.929	-4.12%	-0.68%			
3550	2.853	37.604				2.964	37.871	-3.74%	-0.71%			
3560	2.859	37.593				2.974	37.860	-3.87%	-0.71%			
3600	2.892	37.495				3.015	37.814	-4.08%	-0.84%			
3650	2.951	37.423				3.066	37.757	-3.75%	-0.88%			
3690	2.983	37.339				3.107	37.711	-3.99%	-0.99%			
3700	2.991	37.302				3.117	37.700	-4.04%	-1.06%			
3750	3.048	37.235				3.169	37.643	-3.82%	-1.08%			
3900	3.204	36.987				3.323	37.471	-3.58%	-1.29%			
3930	3.235	36.909				3.353	37.437	-3.52%	-1.41%			
4100	3.428	36.649				3.528	37.243	-2.83%	-1.59%			
4150	3.479	36.509				3.579	37.186	-2.79%	-1.82%			
03/25/2024	3600 Head	19.0				3300	2.582	38.888	2.708	38.157	-4.65%	1.92%
						3350	2.626	38.786	2.759	38.100	-4.82%	1.80%
						3450	2.728	38.598	2.861	37.986	-4.65%	1.61%
			3500	2.773	38.452	2.913	37.929	-4.81%	1.38%			
			3550	2.825	38.410	2.964	37.871	-4.69%	1.42%			
			3560	2.834	38.389	2.974	37.860	-4.71%	1.40%			
			3600	2.867	38.275	3.015	37.814	-4.91%	1.22%			
			3650	2.932	38.194	3.066	37.757	-4.37%	1.16%			
			3690	2.953	38.127	3.107	37.711	-4.96%	1.10%			
			3700	2.962	38.092	3.117	37.700	-4.97%	1.04%			
			3750	3.036	37.981	3.169	37.643	-4.20%	0.90%			
			3900	3.176	37.750	3.323	37.471	-4.42%	0.74%			
			3930	3.210	37.634	3.353	37.437	-4.26%	0.53%			
			4100	3.416	37.390	3.528	37.243	-3.17%	0.39%			
			4150	3.452	37.206	3.579	37.186	-3.55%	0.05%			

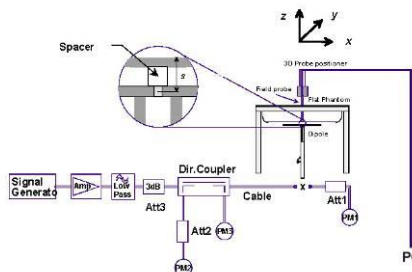
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9.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in the SAR System Validation Appendix.

**Table 9-6
System Verification Results – 1g**

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 SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)
K2	750	HEAD	01/15/2024	21.5	21.3	0.20	1003	7547	1322	1.720	8.480	8.600	1.42%	1.130	5.560	5.650	1.62%
K2	750	HEAD	01/26/2024	22.0	21.8	0.20	1003	7547	1322	1.710	8.480	8.550	0.83%	1.130	5.560	5.650	1.62%
K2	750	HEAD	01/29/2024	22.5	21.5	0.20	1003	7547	1322	1.670	8.480	8.350	-1.53%	1.100	5.560	5.500	-1.08%
K2	750	HEAD	02/05/2024	22.2	21.5	0.20	1003	7547	1322	1.750	8.480	8.750	3.18%	1.150	5.560	5.700	3.42%
K2	750	HEAD	02/07/2024	21.6	20.8	0.20	1003	7547	1322	1.660	8.480	8.300	-2.12%	1.050	5.560	5.450	-1.98%
K2	750	HEAD	02/13/2024	21.3	21.3	0.20	1003	7547	1322	1.760	8.480	8.800	3.77%	1.160	5.560	5.800	4.32%
K2	750	HEAD	02/15/2024	21.4	20.8	0.20	1003	7547	1322	1.710	8.480	8.550	0.83%	1.120	5.560	5.600	0.72%
K2	750	HEAD	02/20/2024	22.0	21.4	0.20	1003	7547	1322	1.730	8.480	8.650	2.00%	1.140	5.560	5.700	2.52%
K4	835	HEAD	01/17/2024	19.1	20.6	0.20	4d180	7640	1645	1.940	9.630	9.700	0.73%	1.260	6.270	6.300	0.48%
K4	835	HEAD	01/19/2024	19.0	19.2	0.20	4d119	7640	1645	2.080	9.720	10.400	7.00%	1.360	6.380	6.800	6.58%
G	835	HEAD	02/06/2024	20.7	19.2	0.20	4d133	7713	1530	1.980	9.760	9.900	1.43%	1.290	6.370	6.450	1.26%
S	835	HEAD	02/13/2024	20.4	20.1	0.20	4d132	7660	1678	1.990	9.840	9.950	1.12%	1.300	6.400	6.500	1.56%
S	835	HEAD	02/19/2024	20.1	19.6	0.20	4d132	7660	1678	2.040	9.840	10.200	3.66%	1.340	6.400	6.700	4.69%
S	835	HEAD	02/21/2024	22.5	22.0	0.20	4d132	7660	1678	2.090	9.840	10.450	6.20%	1.370	6.400	6.850	7.03%
P	1750	HEAD	01/15/2024	19.9	21.1	0.10	1150	7659	1407	3.850	36.900	38.500	4.34%	2.100	19.400	21.000	8.25%
P	1750	HEAD	01/23/2024	20.7	20.3	0.10	1150	7659	1407	3.640	36.900	36.400	-1.36%	1.990	19.400	19.900	2.58%
P	1750	HEAD	02/05/2024	20.3	19.5	0.10	1150	7659	1407	3.570	36.900	35.700	-3.25%	1.880	19.400	18.800	-3.09%
C	1750	HEAD	02/26/2024	19.7	19.0	0.10	1008	7661	728	3.630	37.400	36.300	-2.94%	1.850	19.600	18.500	-5.61%
C	1750	HEAD	03/13/2024	21.4	21.4	0.10	1148	7661	728	3.860	37.200	38.600	3.76%	2.010	19.400	20.100	3.61%
S	1900	HEAD	01/29/2024	19.9	23.0	0.10	5d148	7660	1678	3.990	40.100	39.900	-0.50%	2.030	21.000	20.300	-3.33%
S	1900	HEAD	01/31/2024	20.8	22.9	0.10	5d148	7660	1678	4.130	40.100	41.300	2.99%	2.090	21.000	20.900	-0.48%
S	1900	HEAD	02/12/2024	21.9	21.3	0.10	5d148	7660	1678	4.130	40.100	41.300	2.99%	2.120	21.000	21.200	0.95%
C	1900	HEAD	03/05/2024	20.4	21.6	0.10	5d149	7661	728	4.170	40.500	41.700	2.96%	2.120	21.200	21.200	0.00%
P	2300	HEAD	02/07/2024	20.5	22.6	0.10	1073	7659	1407	4.630	48.600	46.300	-4.73%	2.160	23.700	21.600	-8.86%
K2	2300	HEAD	02/22/2024	22.0	21.4	0.10	1117	7547	1322	4.970	49.900	49.700	-0.40%	2.380	24.300	23.900	-1.65%
L	2450	HEAD	02/01/2024	21.0	20.2	0.10	981	7409	1334	5.630	53.900	56.300	4.45%	2.620	25.400	26.300	3.54%
K2	2450	HEAD	02/19/2024	21.8	21.8	0.10	945	7547	1322	5.590	51.900	55.900	7.71%	2.610	24.600	26.100	6.10%
O	2450	HEAD	02/21/2024	21.1	19.4	0.10	981	7803	1533	5.070	53.900	50.700	-5.94%	2.370	25.400	23.700	-6.69%
O	2450	HEAD	02/26/2024	20.5	19.1	0.10	719	7803	1533	5.030	55.000	50.300	-8.55%	2.350	25.700	23.500	-8.56%
S	2450	HEAD	03/11/2024	21.2	20.8	0.10	719	7660	1678	5.310	55.000	53.100	-3.45%	2.370	25.700	23.700	-7.78%
S	2450	HEAD	03/18/2024	24.8	21.0	0.10	719	7660	1678	5.170	55.000	51.700	-6.00%	2.360	25.700	23.600	-8.17%
L	2600	HEAD	02/01/2024	21.0	20.2	0.10	1004	7409	1334	6.160	57.800	61.600	6.57%	2.760	25.700	27.600	7.39%
L	2600	HEAD	02/05/2024	19.8	20.0	0.10	1004	7409	1334	5.900	57.800	59.000	2.08%	2.670	25.700	26.700	3.89%
O	2600	HEAD	02/26/2024	20.5	19.1	0.10	1064	7803	1533	5.810	56.400	58.100	3.01%	2.630	25.200	26.300	4.37%
K4	3500	HEAD	02/14/2024	20.1	18.9	0.10	1127	7565	1466	6.130	64.900	61.300	-5.55%	2.330	24.400	23.300	-4.51%
L	3500	HEAD	02/21/2024	22.0	19.0	0.10	1097	7409	1334	6.470	65.400	64.700	-1.07%	2.500	24.700	25.000	1.21%
K4	3500	HEAD	03/04/2024	19.2	19.0	0.10	1127	7565	1466	6.290	64.900	62.900	-3.08%	2.390	24.400	23.900	-2.05%
L	3500	HEAD	03/13/2024	20.1	21.0	0.10	1059	7409	1334	6.620	64.900	66.200	2.00%	2.560	24.700	25.600	3.64%
L	3500	HEAD	03/25/2024	19.3	19.0	0.10	1097	7409	1334	6.710	65.400	67.100	2.60%	2.580	24.700	25.800	4.45%
K4	3700	HEAD	02/14/2024	20.1	19.9	0.10	1096	7565	1466	6.450	66.900	64.500	-3.59%	2.380	24.400	23.800	-2.46%
L	3700	HEAD	02/21/2024	22.0	19.0	0.10	1067	7409	1334	6.770	66.900	67.700	1.20%	2.510	24.300	25.100	3.29%
K4	3700	HEAD	03/04/2024	19.2	19.0	0.10	1096	7565	1466	6.340	66.900	63.400	-5.23%	2.330	24.400	23.300	-4.51%
L	3700	HEAD	03/13/2024	20.1	21.0	0.10	1018	7409	1334	6.640	65.100	66.400	2.00%	2.500	23.900	25.000	4.60%
L	3700	HEAD	03/25/2024	19.3	19.0	0.10	1067	7409	1334	6.030	66.900	60.300	-9.87%	2.240	24.300	22.400	-7.82%
K4	3900	HEAD	02/14/2024	20.1	18.9	0.10	1074	7565	1466	6.680	69.400	66.800	-3.75%	2.350	24.100	23.500	-2.49%
K4	3900	HEAD	03/04/2024	19.2	19.0	0.10	1074	7565	1466	6.560	69.400	65.600	-5.48%	2.290	24.100	22.900	-4.98%
K3	5250	HEAD	02/05/2024	19.5	22.5	0.05	1237	7558	1364	3.730	80.100	74.600	-6.87%	1.060	22.900	21.200	-7.42%
G	5250	HEAD	02/25/2024	21.2	21.2	0.05	1191	7713	1530	3.660	78.900	73.200	-7.22%	1.040	22.700	20.800	-8.37%
K3	5600	HEAD	02/05/2024	19.5	22.5	0.05	1237	7558	1364	4.130	84.700	82.600	-2.48%	1.160	24.100	23.200	-3.73%
G	5600	HEAD	02/25/2024	21.2	21.2	0.05	1191	7713	1530	4.060	83.000	81.200	-2.17%	1.130	23.900	22.600	-5.44%
K3	5750	HEAD	02/05/2024	19.5	22.5	0.05	1237	7558	1364	4.020	81.200	80.400	-0.99%	1.140	22.900	22.800	-0.44%
G	5750	HEAD	02/25/2024	21.2	21.2	0.05	1191	7713	1530	3.800	78.900	76.000	-3.68%	1.080	22.400	21.600	-3.57%
K3	5800	HEAD	02/05/2024	19.5	22.5	0.05	1237	7558	1364	4.020	80.600	80.400	-0.25%	1.130	22.800	22.600	-0.88%
G	5850	HEAD	02/25/2024	21.2	21.2	0.05	1191	7713	1530	3.790	78.800	75.800	-3.81%	1.060	22.500	21.200	-5.78%
R	6500	HEAD	02/19/2024	19.6	19.4	0.03	1020	7410	1638	7.550	292.000	302.000	3.42%	1.420	53.900	56.800	5.38%
R	6500	HEAD	02/25/2024	20.5	21.0	0.03	1018	7410	1638	7.560	293.000	302.400	3.21%	1.390	53.900	55.600	3.15%



**Figure 9-1
System Verification Setup Diagram**



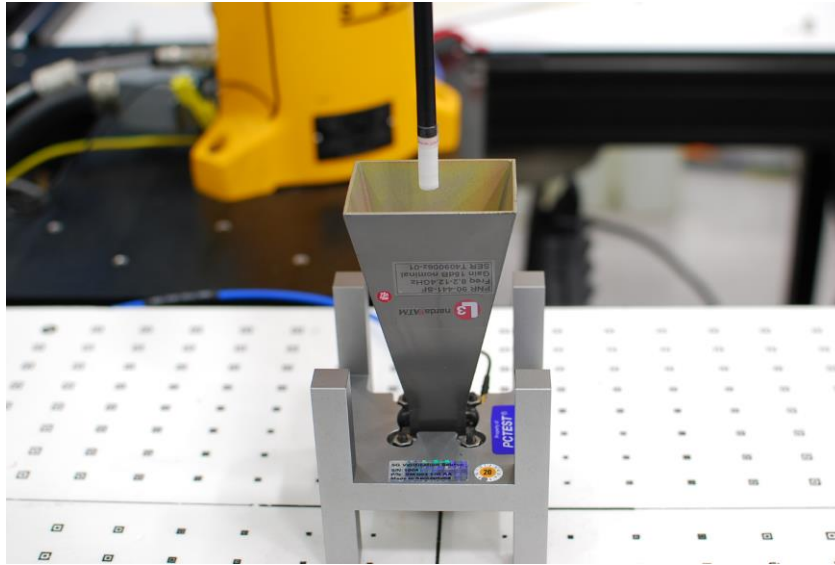
**Figure 9-2
System Verification Setup Photo**

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9.3 Power Density Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user’s manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG’s mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.



**Figure 9-3
System Verification Setup Photo**

**Table 9-7
10 GHz Verifications**

System Verification											
System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
						Measured	Target		Measured	Target	
Q	10	02/28/2024	1004	9622	93.3	61.40	60.10	0.09	61.60	60.30	0.09
Q	10	03/10/2024	1006	9622	93.2	66.00	63.90	0.14	66.20	64.10	0.14

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
UMTS 850 Laptop and Tablet - No Motion

Exposure	Band / Mode	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	UMTS 850	RMC	4	Tablet	7CCK2	1:1	0.01	846.60	4233	25.0	24.02	Back	25	0.118	1.253	0.148	0.468	A1	33.3	33.3	30.0
Body	UMTS 850	RMC	4	Tablet	7CCK2	1:1	0.09	846.60	4233	25.0	24.02	Top	25	0.113	1.253	0.142	0.448		33.4		
Body	UMTS 850	RMC	4	Laptop	7CCK2	1:1	0.00	846.60	4233	25.0	24.02	Bottom	0	0.090	1.253	0.063	0.198		37.0		
Body	UMTS 850	RMC	4	Tablet	7CCK2	1:1	0.01	846.60	4233	25.0	24.02	Right	25	0.002	1.253	0.003	0.008		51.0		
Body	UMTS 850	RMC	4	Tablet	7CCK2	1:1	-0.02	846.60	4233	25.0	24.02	Left	25	0.096	1.253	0.120	0.380		34.1		
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 10-2
UMTS 850 Tablet

Exposure	Band / Mode	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	UMTS 850	RMC	4	N/A	7CCY2	1:1	-0.02	846.60	4233	18.4	17.42	Back	0	0.184	1.253	0.231			24.7	22.5	17.4
Body	UMTS 850	RMC	4	N/A	7CCY2	1:1	-0.05	846.60	4233	18.4	17.42	Top	0	0.309	1.253	0.387	A2	22.5			
Body	UMTS 850	RMC	4	Keyboard	7CCY2	1:1	-0.03	846.60	4233	18.4	17.42	Top	0	0.299	1.253	0.375		22.6			
Body	UMTS 850	RMC	4	N/A	7CCY2	1:1	-0.15	846.60	4233	18.4	17.42	Bottom	0	0.030	1.253	0.038		32.6			
Body	UMTS 850	RMC	4	N/A	7CCY2	1:1	0.04	846.60	4233	18.4	17.42	Right	0	0.006	1.253	0.008		39.6			
Body	UMTS 850	RMC	4	N/A	7CCY2	1:1	0.01	846.60	4233	18.4	17.42	Left	0	0.211	1.253	0.264		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								

10.2 UMTS 1750 Standalone SAR

Table 10-3
UMTS 1750 Laptop and Tablet - No Motion

Exposure	Band / Mode	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	UMTS 1750	RMC	1	Tablet	3B44R	1:1	0.05	1712.40	1312	25.0	23.94	Back	25	0.118	1.276	0.151	0.194		33.2	27.8	26.1
Body	UMTS 1750	RMC	1	Tablet	B44G2	1:1	0.00	1712.40	1312	25.0	23.94	Top	25	0.407	1.276	0.519	0.669	A3	27.8		
Body	UMTS 1750	RMC	1	Laptop	3B44R	1:1	-0.10	1712.40	1312	25.0	23.94	Bottom	0	0.072	1.276	0.092	0.118		35.3		
Body	UMTS 1750	RMC	1	Tablet	3B44R	1:1	-0.08	1712.40	1312	25.0	23.94	Right	25	0.207	1.276	0.264	0.340		30.7		
Body	UMTS 1750	RMC	1	Tablet	3B44R	1:1	0.20	1712.40	1312	25.0	23.94	Left	25	0.008	1.276	0.010	0.013		44.9		
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 10-4
UMTS 1750 Tablet

Exposure	Band / Mode	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	UMTS 1750	RMC	1	N/A	37CFB	1:1	0.02	1712.40	1312	13.6	12.58	Back	0	0.324	1.265	0.410			17.4	15.9	12.6
Body	UMTS 1750	RMC	1	N/A	37CFB	1:1	0.01	1712.40	1312	13.6	12.58	Top	0	0.455	1.265	0.576	A4	15.9			
Body	UMTS 1750	RMC	1	Keyboard	37CFB	1:1	-0.01	1712.40	1312	13.6	12.58	Top	0	0.409	1.265	0.517		15.4			
Body	UMTS 1750	RMC	1	N/A	37CFB	1:1	-0.08	1712.40	1312	13.6	12.58	Bottom	0	0.010	1.265	0.013		32.5			
Body	UMTS 1750	RMC	1	N/A	37CFB	1:1	0.10	1712.40	1312	13.6	12.58	Right	0	0.125	1.265	0.158		21.6			
Body	UMTS 1750	RMC	1	N/A	37CFB	1:1	0.07	1712.40	1312	13.6	12.58	Left	0	0.001	1.265	0.001		42.5			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram								

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10.3 UMTS 1900 Standalone SAR

Table 10-5
UMTS 1900 Laptop and Tablet - No Motion

Exposure	Band / Mode	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]	
Body	UMTS 1900	RMC	1	Tablet	B44D2	1:1	-0.08	1852.40	9262	25.0	23.97	Back	25	0.137	1.268	0.174	0.549		32.6	32.0	30.0	
Body	UMTS 1900	RMC	1	Tablet	B44D2	1:1	0.00	1852.40	9262	25.0	23.97	Top	25	0.156	1.268	0.198	0.625	A5	32.0			
Body	UMTS 1900	RMC	1	Laptop	B44D2	1:1	0.07	1852.40	9262	25.0	23.97	Bottom	0	0.005	1.268	0.006	0.020		46.9			
Body	UMTS 1900	RMC	1	Tablet	B44D2	1:1	-0.03	1852.40	9262	25.0	23.97	Right	25	0.070	1.268	0.089	0.281		35.5			
Body	UMTS 1900	RMC	1	Tablet	B44G2	1:1	-0.08	1852.40	9262	25.0	23.97	Left	25	0.017	1.268	0.022	0.068		41.6			
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 10-6
UMTS 1900 Tablet

Exposure	Band / Mode	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]	
Body	UMTS 1900	RMC	1	N/A	7CDG2	1:1	0.04	1852.40	9262	12.3	11.19	Back	0	0.348	1.291	0.449		15.7	14.2	11.3		
Body	UMTS 1900	RMC	1	N/A	7CDG2	1:1	-0.03	1852.40	9262	12.3	11.19	Top	0	0.499	1.291	0.644		A6			14.2	
Body	UMTS 1900	RMC	1	Keyboard	7CDG2	1:1	-0.01	1852.40	9262	12.3	11.19	Top	0	0.455	1.291	0.587					14.6	
Body	UMTS 1900	RMC	1	N/A	7CDB2	1:1	0.05	1852.40	9262	12.3	11.19	Bottom	0	0.003	1.291	0.004					36.4	
Body	UMTS 1900	RMC	1	N/A	7CDB2	1:1	0.00	1852.40	9262	12.3	11.19	Right	0	0.052	1.291	0.067					24.0	
Body	UMTS 1900	RMC	1	N/A	7CDB2	1:1	-0.01	1852.40	9262	12.3	11.19	Left	0	0.008	1.291	0.010					32.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.4 LTE Band 71 Standalone SAR

Table 10-7
LTE Band 71 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]	
Body	LTE Band 71	20	QPSK	4	Tablet	7CCK2	1:1	-0.03	680.50	133297	0.0	25.0	23.99	1	50	Back	25	0.121	1.262	0.153	0.483	A7	33.1	33.1	30.0	
Body	LTE Band 71	20	QPSK	4	Tablet	7CCK2	1:1	0.00	680.50	133297	1.0	24.0	23.01	50	25	Back	25	0.097	1.256	0.122	0.485		33.1			
Body	LTE Band 71	20	QPSK	4	Tablet	7CCK2	1:1	0.01	680.50	133297	0.0	25.0	23.99	1	50	Top	25	0.061	1.262	0.077	0.243		36.1			
Body	LTE Band 71	20	QPSK	4	Tablet	7CCK2	1:1	0.05	680.50	133297	1.0	24.0	23.01	50	25	Top	25	0.048	1.256	0.060	0.240		36.1			
Body	LTE Band 71	20	QPSK	4	Laptop	7CCK2	1:1	0.18	680.50	133297	0.0	25.0	23.99	1	50	Bottom	0	0.036	1.262	0.045	0.144		38.4			
Body	LTE Band 71	20	QPSK	4	Laptop	7CCK2	1:1	-0.05	680.50	133297	1.0	24.0	23.01	50	25	Bottom	0	0.024	1.256	0.030	0.120		39.2			
Body	LTE Band 71	20	QPSK	4	Tablet	7CCK2	1:1	0.20	680.50	133297	0.0	25.0	23.99	1	50	Right	25	0.011	1.262	0.014	0.044		43.5			
Body	LTE Band 71	20	QPSK	4	Tablet	7CCK2	1:1	0.01	680.50	133297	1.0	24.0	23.01	50	25	Right	25	0.009	1.256	0.011	0.045		43.4			
Body	LTE Band 71	20	QPSK	4	Tablet	7CCK2	1:1	0.03	680.50	133297	0.0	25.0	23.99	1	50	Left	25	0.110	1.262	0.139	0.439		33.5			
Body	LTE Band 71	20	QPSK	4	Tablet	7CCK2	1:1	0.04	680.50	133297	1.0	24.0	23.01	50	25	Left	25	0.090	1.256	0.113	0.450		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 10-8
LTE Band 71 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]	
Body	LTE Band 71	20	QPSK	4	N/A	7CC72	1:1	0.04	680.50	133297	0.0	17.3	16.31	1	50	Back	0	0.250	1.256	0.314		22.3	18.0	16.3		
Body	LTE Band 71	20	QPSK	4	N/A	7CC72	1:1	0.01	680.50	133297	0.0	17.3	16.25	50	0	Back	0	0.248	1.274	0.316		22.3				
Body	LTE Band 71	20	QPSK	4	N/A	7CC72	1:1	-0.01	680.50	133297	0.0	17.3	16.31	1	50	Top	0	0.289	1.256	0.363		21.7				
Body	LTE Band 71	20	QPSK	4	N/A	7CC72	1:1	0.02	680.50	133297	0.0	17.3	16.25	50	0	Top	0	0.308	1.274	0.392		21.3				
Body	LTE Band 71	20	QPSK	4	N/A	7CC72	1:1	-0.05	680.50	133297	0.0	17.3	16.31	1	50	Bottom	0	0.014	1.256	0.018		34.8				
Body	LTE Band 71	20	QPSK	4	N/A	7CC72	1:1	0.05	680.50	133297	0.0	17.3	16.25	50	0	Bottom	0	0.014	1.274	0.018		34.7				
Body	LTE Band 71	20	QPSK	4	N/A	7CC72	1:1	0.06	680.50	133297	0.0	17.3	16.31	1	50	Right	0	0.003	1.256	0.004		41.5				
Body	LTE Band 71	20	QPSK	4	N/A	7CC72	1:1	0.03	680.50	133297	0.0	17.3	16.25	50	0	Right	0	0.003	1.274	0.004		41.4				
Body	LTE Band 71	10	QPSK	4	N/A	7CC72	1:1	0.01	680.50	133297	0.0	17.3	16.31	1	50	Left	0	0.665	1.256	0.835		A8			18.0	
Body	LTE Band 71	10	QPSK	4	Keyboard	7CC72	1:1	-0.19	680.50	133297	0.0	17.3	16.31	1	50	Left	0	0.550	1.256	0.691					18.9	
Body	LTE Band 71	20	QPSK	4	N/A	7CC72	1:1	-0.18	680.50	133297	0.0	17.3	16.25	50	0	Left	0	0.634	1.274	0.808					18.2	
Body	LTE Band 71	20	QPSK	4	N/A	7CC72	1:1	0.04	680.50	133297	0.0	17.3	16.21	100	0	Left	0	0.559	1.285	0.718					18.7	
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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10.5 LTE Band 12 Standalone SAR

Table 10-9
LTE Band 12 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]				
Body	LTE Band 12	10	QPSK	4	Tablet	7CCK2	1:1	0.00	707.50	23095	0.0	25.0	24.66	1	0	Back	25	0.135	1.081	0.146	0.462	A9	33.3						
Body	LTE Band 12	10	QPSK	4	Tablet	7CCK2	1:1	-0.02	707.50	23095	1.0	24.0	23.54	25	0	Back	25	0.109	1.112	0.121	0.482		33.1						
Body	LTE Band 12	10	QPSK	4	Tablet	7CCK2	1:1	-0.03	707.50	23095	0.0	25.0	24.66	1	0	Top	25	0.063	1.081	0.068	0.215		36.6						
Body	LTE Band 12	10	QPSK	4	Tablet	7CCK2	1:1	-0.03	707.50	23095	1.0	24.0	23.54	25	0	Top	25	0.052	1.112	0.058	0.230		36.3						
Body	LTE Band 12	10	QPSK	4	Laptop	7CCK2	1:1	-0.04	707.50	23095	0.0	25.0	24.66	1	0	Bottom	0	0.041	1.081	0.044	0.140		38.5						
Body	LTE Band 12	10	QPSK	4	Laptop	7CCK2	1:1	0.02	707.50	23095	1.0	24.0	23.54	25	0	Bottom	0	0.035	1.112	0.039	0.155		38.0						
Body	LTE Band 12	10	QPSK	4	Tablet	7CCK2	1:1	0.08	707.50	23095	0.0	25.0	24.66	1	0	Right	25	0.004	1.081	0.004	0.014		48.6						
Body	LTE Band 12	10	QPSK	4	Tablet	7CCK2	1:1	0.06	707.50	23095	1.0	24.0	23.54	25	0	Right	25	0.004	1.112	0.004	0.018		47.5						
Body	LTE Band 12	10	QPSK	4	Tablet	7CCK2	1:1	-0.02	707.50	23095	0.0	25.0	24.66	1	0	Left	25	0.092	1.081	0.099	0.315		35.0						
Body	LTE Band 12	10	QPSK	4	Tablet	7CCK2	1:1	-0.02	707.50	23095	1.0	24.0	23.54	25	0	Left	25	0.073	1.112	0.081	0.323		34.9						
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																													

Table 10-10
LTE Band 12 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]				
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	0.00	707.50	23095	0.0	17.8	17.37	1	25	Back	0	0.374	1.104	0.413		21.6						
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	0.04	707.50	23095	0.0	17.8	17.56	25	0	Back	0	0.370	1.057	0.391		21.8						
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	0.03	707.50	23095	0.0	17.8	17.37	1	25	Top	0	0.397	1.104	0.438		21.3						
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	0.00	707.50	23095	0.0	17.8	17.56	25	0	Top	0	0.397	1.057	0.420		21.5						
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	-0.09	707.50	23095	0.0	17.8	17.37	1	25	Bottom	0	0.016	1.104	0.018		35.3						
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	0.07	707.50	23095	0.0	17.8	17.56	25	0	Bottom	0	0.018	1.057	0.019		35.0						
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	0.01	707.50	23095	0.0	17.8	17.37	1	25	Right	0	0.004	1.104	0.004		41.3						
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	0.06	707.50	23095	0.0	17.8	17.56	25	0	Right	0	0.005	1.057	0.005		40.5						
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	0.01	707.50	23095	0.0	17.8	17.37	1	25	Left	0	0.790	1.104	0.872		18.3						
Body	LTE Band 12	10	QPSK	4	Keyboard	7CC72	1:1	0.07	707.50	23095	0.0	17.8	17.37	1	25	Left	0	0.707	1.104	0.781		18.8						
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	-0.01	707.50	23095	0.0	17.8	17.56	25	0	Left	0	0.805	1.057	0.851	A10	18.5						
Body	LTE Band 12	10	QPSK	4	N/A	7CC72	1:1	-0.07	707.50	23095	0.0	17.8	17.31	50	0	Left	0	0.752	1.119	0.841		18.5						
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																												

10.6 LTE Band 13 Standalone SAR

Table 10-11
LTE Band 13 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]			
Body	LTE Band 13	10	QPSK	4	Tablet	7CCK2	1:1	0.01	782.00	23230	0.0	25.0	24.20	1	0	Back	25	0.113	1.202	0.136	0.430	A11	33.6					
Body	LTE Band 13	10	QPSK	4	Tablet	7CCK2	1:1	0.04	782.00	23230	1.0	24.0	23.14	25	25	Back	25	0.094	1.219	0.115	0.456		33.4					
Body	LTE Band 13	10	QPSK	4	Tablet	7CCK2	1:1	0.01	782.00	23230	0.0	25.0	24.20	1	0	Top	25	0.111	1.202	0.133	0.422		33.7					
Body	LTE Band 13	10	QPSK	4	Tablet	7CCK2	1:1	0.01	782.00	23230	1.0	24.0	23.14	25	25	Top	25	0.098	1.219	0.119	0.476		33.2					
Body	LTE Band 13	10	QPSK	4	Laptop	7CCK2	1:1	0.03	782.00	23230	0.0	25.0	24.20	1	0	Bottom	0	0.056	1.202	0.067	0.213		36.7					
Body	LTE Band 13	10	QPSK	4	Laptop	7CCK2	1:1	0.06	782.00	23230	1.0	24.0	23.14	25	25	Bottom	0	0.040	1.219	0.049	0.194		37.1					
Body	LTE Band 13	10	QPSK	4	Tablet	7CCK2	1:1	-0.08	782.00	23230	0.0	25.0	24.20	1	0	Right	25	0.003	1.202	0.004	0.011		49.4					
Body	LTE Band 13	10	QPSK	4	Tablet	7CCK2	1:1	0.05	782.00	23230	1.0	24.0	23.14	25	25	Right	25	0.003	1.219	0.004	0.015		48.3					
Body	LTE Band 13	10	QPSK	4	Tablet	7CCK2	1:1	-0.01	782.00	23230	0.0	25.0	24.20	1	0	Left	25	0.074	1.202	0.089	0.281		35.5					
Body	LTE Band 13	10	QPSK	4	Tablet	7CCK2	1:1	-0.01	782.00	23230	1.0	24.0	23.14	25	25	Left	25	0.058	1.219	0.071	0.281		35.5					
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																												

Table 10-12
LTE Band 13 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]				
Body	LTE Band 13	10	QPSK	4	N/A	7CC72	1:1	0.01	782.00	23230	0.0	18.3	17.47	1	49	Back	0	0.417	1.211	0.505		21.2						
Body	LTE Band 13	10	QPSK	4	N/A	7CC72	1:1	-0.01	782.00	23230	0.0	18.3	17.51	25	25	Back	0	0.424	1.199	0.508		21.2						
Body	LTE Band 13	10	QPSK	4	N/A	7CC72	1:1	0.07	782.00	23230	0.0	18.3	17.47	1	49	Top	0	0.341	1.211	0.413		22.1						
Body	LTE Band 13	10	QPSK	4	N/A	7CC72	1:1	0.02	782.00	23230	0.0	18.3	17.51	25	25	Top	0	0.347	1.199	0.416		22.1						
Body	LTE Band 13	10	QPSK	4	N/A	7CC72	1:1	-0.02	782.00	23230	0.0	18.3	17.47	1	49	Bottom	0	0.019	1.211	0.023		34.6						
Body	LTE Band 13	10	QPSK	4	N/A	7CC72	1:1	-0.12	782.00	23230	0.0	18.3	17.51	25	25	Bottom	0	0.020	1.199	0.024		34.4						
Body	LTE Band 13	10	QPSK	4	N/A	7CC72	1:1	0.03	782.00	23230	0.0	18.3	17.47	1	49	Right	0	0.004	1.211	0.005		41.4						
Body	LTE Band 13	10	QPSK	4	N/A	7CC72	1:1	0.11	782.00	23230	0.0	18.3	17.51	25	25	Right	0	0.005	1.199	0.006		40.5						
Body	LTE Band 13	10	QPSK	4	N/A	7CC72	1:1	0.06	782.00	23230	0.0	18.3	17.47	1	49	Left	0	0.638	1.211	0.761	A12	19.4						
Body	LTE Band 13	10	QPSK	4	Keyboard	7CC72	1:1	-0.13	782.00	23230	0.0	18.3	17.47	1	49	Left	0	0.471	1.211	0.570		20.7						
Body	LTE Band 13	10	QPSK	4	N/A	7CC72	1:1	0.02	782.00	23230	0.0	18.3	17.51	25	25	Left	0	0.596	1.199	0.715		19.7						
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																												

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10.7 LTE Band 14 Standalone SAR

Table 10-13
LTE Band 14 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]				
Body	LTE Band 14	10	QPSK	4	Tablet	7CCK2	1:1	-0.01	793.00	2330	0.0	25.0	24.15	1	0	Back	25	0.128	1.216	0.156	0.492		33.0						
Body	LTE Band 14	10	QPSK	4	Tablet	7CCK2	1:1	-0.01	793.00	2330	1.0	24.0	23.15	25	25	Back	25	0.076	1.216	0.092	0.368		34.3						
Body	LTE Band 14	10	QPSK	4	Tablet	7CCK2	1:1	0.01	793.00	2330	0.0	25.0	24.15	1	0	Top	25	0.129	1.216	0.157	0.496	A13	33.0						
Body	LTE Band 14	10	QPSK	4	Tablet	7CCK2	1:1	-0.01	793.00	2330	1.0	24.0	23.15	25	25	Top	25	0.080	1.216	0.097	0.387		34.1						
Body	LTE Band 14	10	QPSK	4	Laptop	7CCK2	1:1	0.13	793.00	2330	0.0	25.0	24.15	1	0	Bottom	0	0.053	1.216	0.064	0.204		36.9						
Body	LTE Band 14	10	QPSK	4	Laptop	7CCK2	1:1	0.06	793.00	2330	1.0	24.0	23.15	25	25	Bottom	0	0.035	1.216	0.043	0.169		37.7						
Body	LTE Band 14	10	QPSK	4	Tablet	7CCK2	1:1	0.18	793.00	2330	0.0	25.0	24.15	1	0	Right	25	0.004	1.216	0.005	0.015		48.1						
Body	LTE Band 14	10	QPSK	4	Tablet	7CCK2	1:1	0.02	793.00	2330	1.0	24.0	23.15	25	25	Right	25	0.002	1.216	0.002	0.010		50.1						
Body	LTE Band 14	10	QPSK	4	Tablet	7CCK2	1:1	0.00	793.00	2330	0.0	25.0	24.15	1	0	Left	25	0.083	1.216	0.101	0.319		34.9						
Body	LTE Band 14	10	QPSK	4	Tablet	7CCK2	1:1	-0.03	793.00	2330	1.0	24.0	23.15	25	25	Left	25	0.049	1.216	0.060	0.237		36.2						
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																													

Table 10-14
LTE Band 14 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]				
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	-0.02	793.00	2330	0.0	18.8	17.89	1	0	Back	0	0.445	1.233	0.549			21.4						
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	-0.02	793.00	2330	0.0	18.8	17.96	25	25	Back	0	0.425	1.233	0.516			21.6						
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	-0.01	793.00	2330	0.0	18.8	17.89	1	0	Top	0	0.410	1.233	0.506			21.7						
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	0.02	793.00	2330	0.0	18.8	17.96	25	25	Top	0	0.411	1.233	0.499			21.8						
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	0.01	793.00	2330	0.0	18.8	17.89	1	0	Bottom	0	0.022	1.233	0.027			34.4						
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	-0.04	793.00	2330	0.0	18.8	17.96	25	25	Bottom	0	0.021	1.233	0.025			34.7						
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	0.00	793.00	2330	0.0	18.8	17.89	1	0	Right	0	0.004	1.233	0.005			41.8						
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	0.02	793.00	2330	0.0	18.8	17.96	25	25	Right	0	0.003	1.233	0.004			43.1						
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	0.02	793.00	2330	0.0	18.8	17.89	1	0	Left	0	0.841	1.233	1.037	A14		18.6						
Body	LTE Band 14	10	QPSK	4	Keyboard	7CC72	1:1	0.02	793.00	2330	0.0	18.8	17.89	1	0	Left	0	0.266	1.233	0.326			23.6						
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	0.09	793.00	2330	0.0	18.8	17.96	25	25	Left	0	0.703	1.233	0.853			19.4						
Body	LTE Band 14	10	QPSK	4	N/A	7CC72	1:1	0.08	793.00	2330	0.0	18.8	17.83	50	0	Left	0	0.771	1.250	0.964			18.9						
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																													

10.8 LTE Band 26 (Cell) Standalone SAR

Table 10-15
LTE Band 26 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]				
Body	LTE Band 26	15	QPSK	4	Tablet	B44G2	1:1	-0.01	831.50	26865	0.0	25.0	24.36	1	36	Back	25	0.101	1.159	0.117	0.370		34.3						
Body	LTE Band 26	15	QPSK	4	Tablet	B44G2	1:1	0.01	831.50	26865	1.0	24.0	23.25	36	0	Back	25	0.080	1.189	0.095	0.379		34.2						
Body	LTE Band 26	15	QPSK	4	Tablet	B44G2	1:1	-0.01	831.50	26865	0.0	25.0	24.36	1	36	Top	25	0.109	1.159	0.126	0.399	A15	33.9						
Body	LTE Band 26	15	QPSK	4	Tablet	B44G2	1:1	-0.07	831.50	26865	1.0	24.0	23.25	36	0	Top	25	0.088	1.189	0.105	0.446		33.8						
Body	LTE Band 26	15	QPSK	4	Laptop	7CCK2	1:1	-0.15	831.50	26865	0.0	25.0	24.36	1	36	Bottom	0	0.029	1.159	0.034	0.106		39.7						
Body	LTE Band 26	15	QPSK	4	Laptop	7CCK2	1:1	0.02	831.50	26865	1.0	24.0	23.25	36	0	Bottom	0	0.020	1.189	0.024	0.095		40.2						
Body	LTE Band 26	15	QPSK	4	Tablet	B44G2	1:1	0.07	831.50	26865	0.0	25.0	24.36	1	36	Right	25	0.005	1.159	0.006	0.018		47.3						
Body	LTE Band 26	15	QPSK	4	Tablet	B44G2	1:1	0.01	831.50	26865	1.0	24.0	23.25	36	0	Right	25	0.004	1.189	0.005	0.019		47.2						
Body	LTE Band 26	15	QPSK	4	Tablet	B44G2	1:1	-0.01	831.50	26865	0.0	25.0	24.36	1	36	Left	25	0.055	1.159	0.064	0.202		36.9						
Body	LTE Band 26	15	QPSK	4	Tablet	B44G2	1:1	-0.01	831.50	26865	1.0	24.0	23.25	36	0	Left	25	0.038	1.189	0.045	0.180		37.4						
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																													

Table 10-16
LTE Band 26 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]				
Body	LTE Band 26	15	QPSK	4	N/A	7CCY2	1:1	0.00	831.50	26865	0.0	18.4	17.70	1	74	Back	0	0.140	1.175	0.167			26.1						
Body	LTE Band 26	15	QPSK	4	N/A	7CCY2	1:1	0.01	831.50	26865	0.0	18.4	17.72	36	0	Back	0	0.132	1.169	0.154			26.5						
Body	LTE Band 26	15	QPSK	4	N/A	7CCY2	1:1	-0.04	831.50	26865	0.0	18.4	17.70	1	74	Top	0	0.297	1.175	0.340			22.9						
Body	LTE Band 26	15	QPSK	4	Keyboard	7CCY2	1:1	-0.01	831.50	26865	0.0	18.4	17.72	36	0	Top	0	0.290	1.169	0.339			23.0						
Body	LTE Band 26	15	QPSK	4	N/A	7CCY2	1:1	-0.01	831.50	26865	0.0	18.4	17.72	36	0	Top	0	0.299	1.169	0.350	A16		22.9						
Body	LTE Band 26	15	QPSK	4	N/A	7CCY2	1:1	0.03	831.50	26865	0.0	18.4	17.70	1	74	Bottom	0	0.023	1.175	0.027			34.0						
Body	LTE Band 26	15	QPSK	4	N/A	7CCY2	1:1	0.08	831.50	26865	0.0	18.4	17.72	36	0	Bottom	0	0.015	1.169	0.018			35.9						
Body	LTE Band 26	15	QPSK	4	N/A	7CCY2	1:1	0.02	831.50	26865	0.0	18.4	17.70	1	74	Right	0	0.003	1.175	0.004			42.9						
Body	LTE Band 26	15	QPSK	4	N/A	7CCY2	1:1	0.06	831.50	26865	0.0	18.4	17.72	36	0	Right	0	0.002	1.169	0.002			44.7						
Body	LTE Band 26	15	QPSK	4	N/A	7CCY2	1:1	-0.05	831.50	26865	0.0	18.4	17.70	1	74	Left	0	0.206	1.175	0.242			24.5						
Body	LTE Band 26	15	QPSK	4	N/A	7CCY2	1:1	0.00	831.50	26865	0.0	18.4	17.72	36	0	Left	0	0.239	1.169	0.279			23.9						
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																													

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10.9 LTE Band 5 (Cell) Standalone SAR

Table 10-17
LTE Band 5 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimt [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 5	10	QPSK	4	Tablet	B44R2	1:1	-0.21	836.50	20525	0.0	25.0	24.28	1	25	Back	25	N/A	0.109	1.180	0.129	0.407				
Body	LTE Band 5	10	QPSK	4	Tablet	B44R2	1:1	-0.12	836.50	20525	0.0	25.0	24.22	1	49	Back	25	N/A	0.115	1.197	0.138	0.435				
Body	LTE Band 5	10	QPSK	4	Tablet	B44R2	1:1	-0.04	836.50	20525	1.0	24.0	23.39	25	25	Back	25	N/A	0.088	1.151	0.101	0.403				
Body	LTE Band 5	10	QPSK	4	Tablet	B44R2	1:1	-0.03	836.50	20525	0.0	25.0	24.28	1	25	Top	25	N/A	0.095	1.180	0.112	0.355				
Body	LTE Band 5	10	QPSK	4	Tablet	B44R2	1:1	-0.06	836.50	20525	1.0	24.0	23.39	25	25	Top	25	N/A	0.078	1.151	0.090	0.357				
Body	LTE Band 5	10	QPSK	4	Laptop	B44R2	1:1	0.09	836.50	20525	0.0	25.0	24.28	1	25	Bottom	25	N/A	0.062	1.180	0.073	0.231				
Body	LTE Band 5	10	QPSK	4	Laptop	B44R2	1:1	0.09	836.50	20525	1.0	24.0	23.39	25	25	Bottom	25	N/A	0.054	1.151	0.062	0.247				
Body	LTE Band 5	10	QPSK	4	Tablet	B44R2	1:1	-0.25	836.50	20525	0.0	25.0	24.28	1	25	Right	25	N/A	0.096	1.180	0.007	0.022				
Body	LTE Band 5	10	QPSK	4	Tablet	B44R2	1:1	-0.21	836.50	20525	1.0	24.0	23.39	25	25	Right	25	N/A	0.095	1.151	0.006	0.023				
Body	LTE Band 5	10	QPSK	4	Tablet	B44R2	1:1	-0.07	836.50	20525	0.0	25.0	24.28	1	25	Left	25	N/A	0.054	1.180	0.064	0.202				
Body	LTE Band 5	10	QPSK	4	Tablet	B44R2	1:1	0.00	836.50	20525	1.0	24.0	23.39	25	25	Left	25	N/A	0.051	1.151	0.059	0.234				
Body	LTE Band 5	10	QPSK	4	Tablet	B44R2	1:1	-0.18	836.50	20525	0.0	25.0	24.25	1	49	Back	25	ULCA SB	0.118	1.189	0.140	0.443	A17			
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
LTE Band 5 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimt [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	0.04	836.50	20525	0.0	18.4	17.63	1	49	Back	0	N/A	0.402	1.194	0.587					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	0.04	836.50	20525	0.0	18.4	17.70	25	25	Back	0	N/A	0.480	1.175	0.564					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	0.05	836.50	20525	0.0	18.4	17.63	1	49	Top	0	N/A	0.333	1.194	0.398					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	0.05	836.50	20525	0.0	18.4	17.70	25	25	Top	0	N/A	0.324	1.175	0.381					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	-0.15	836.50	20525	0.0	18.4	17.63	1	49	Bottom	0	N/A	0.014	1.194	0.017					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	-0.19	836.50	20525	0.0	18.4	17.70	25	25	Bottom	0	N/A	0.013	1.175	0.015					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	0.09	836.50	20525	0.0	18.4	17.63	1	49	Right	0	N/A	0.003	1.194	0.004					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	-0.13	836.50	20525	0.0	18.4	17.70	25	25	Right	0	N/A	0.004	1.175	0.005					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	-0.17	836.50	20525	0.0	18.4	17.63	1	49	Left	0	N/A	0.629	1.194	0.751					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	0.04	836.50	20525	0.0	18.4	17.70	25	25	Left	0	N/A	0.712	1.175	0.837	A18				
Body	LTE Band 5	10	QPSK	4	Keyboard	7CFB2	1:1	0.04	836.50	20525	0.0	18.4	17.70	25	25	Left	0	N/A	0.504	1.175	0.592					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	0.00	836.50	20525	0.0	18.4	17.62	50	0	Left	0	N/A	0.699	1.197	0.837					
Body	LTE Band 5	10	QPSK	4	N/A	7CFB2	1:1	-0.19	836.50	20525	0.0	18.4	17.60	25	25	Left	0	ULCA SB	0.676	1.202	0.813					
Body	LTE Band 5	5	QPSK	4	N/A	7CFB2	1:1	-0.19	843.70	20597	0.0	18.4	17.60	25	0	Left	0	ULCA SB	0.676	1.202	0.813					
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 10-19
LTE Band 66 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimt [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 66	20	QPSK	1	Tablet	3844R	1:1	-0.06	1720.00	132072	0.0	25.0	24.44	1	99	Back	25	N/A	0.243	1.138	0.277	0.539				
Body	LTE Band 66	20	QPSK	1	Tablet	3844R	1:1	-0.06	1745.00	132322	0.0	25.0	23.33	50	50	Back	25	N/A	0.170	1.167	0.198	0.487				
Body	LTE Band 66	10	QPSK	1	Tablet	3844R	1:1	-0.01	1715.00	132022	0.0	25.0	24.23	1	49	Top	25	N/A	0.424	1.194	0.506	0.987	A19			
Body	LTE Band 66	20	QPSK	1	Tablet	3844R	1:1	0.12	1720.00	132072	0.0	25.0	24.44	1	99	Top	25	N/A	0.412	1.138	0.469	0.914				
Body	LTE Band 66	20	QPSK	1	Tablet	3844R	1:1	0.00	1745.00	132322	1.0	24.0	23.33	50	50	Top	25	N/A	0.297	1.167	0.347	0.851				
Body	LTE Band 66	20	QPSK	1	Laptop	3844R	1:1	-0.08	1720.00	132072	0.0	25.0	24.44	1	99	Bottom	0	N/A	0.062	1.138	0.071	0.138				
Body	LTE Band 66	20	QPSK	1	Laptop	3844R	1:1	-0.20	1745.00	132322	1.0	24.0	23.33	50	50	Bottom	0	N/A	0.048	1.167	0.056	0.137				
Body	LTE Band 66	20	QPSK	1	Tablet	3844R	1:1	-0.02	1720.00	132072	0.0	25.0	24.44	1	99	Right	25	N/A	0.188	1.138	0.214	0.417				
Body	LTE Band 66	20	QPSK	1	Tablet	3844R	1:1	-0.07	1745.00	132322	0.0	25.0	23.33	50	50	Right	25	N/A	0.162	1.167	0.189	0.464				
Body	LTE Band 66	20	QPSK	1	Tablet	3844R	1:1	-0.06	1720.00	132072	0.0	25.0	24.44	1	99	Left	25	N/A	0.014	1.138	0.016	0.031				
Body	LTE Band 66	20	QPSK	1	Tablet	3844R	1:1	0.05	1745.00	132322	1.0	24.0	23.33	50	50	Left	25	N/A	0.009	1.167	0.011	0.026				
Body	LTE Band 66	10	QPSK	1	Tablet	3844R	1:1	-0.06	1715.00	132022	0.0	25.0	23.96	1	49	Top	25	ULCA 66B	0.355	1.3	0.462	0.900				
Body	LTE Band 66	20	QPSK	1	Tablet	3844R	1:1	0.00	1720.00	132072	0.0	25.0	23.84	1	99	Top	25	ULCA 66C	0.373	1.306	0.487	0.950				
Body	LTE Band 66	20	QPSK	1	Tablet	3844R	1:1	0.00	1739.80	132270	0.0	25.0	23.84	1	99	Top	25	ULCA 66C	0.373	1.306	0.487	0.950				
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
LTE Band 66 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]	
Body	LTE Band 66	20	QPSK	1	N/A	37CFB	1:1	-0.07	1720.00	132072	0.0	13.6	13.14	1	99	Back	0	N/A	0.356	1.112	0.396		17.6	15.2	12.6		
Body	LTE Band 66	20	QPSK	1	N/A	37CFB	1:1	-0.04	1720.00	132072	0.0	13.6	13.16	50	50	Back	0	N/A	0.376	1.107	0.416		17.4				
Body	LTE Band 66	10	QPSK	1	N/A	7CFB2	1:1	-0.07	1715.00	132022	0.0	13.6	13.10	1	49	Top	0	N/A	0.585	1.122	0.656		15.4				
Body	LTE Band 66	20	QPSK	1	N/A	7CFB2	1:1	-0.01	1720.00	132072	0.0	13.6	13.14	1	99	Top	0	N/A	0.581	1.112	0.646		15.4				
Body	LTE Band 66	20	QPSK	1	Keyboard	7CFB2	1:1	0.03	1720.00	132072	0.0	13.6	13.14	1	99	Top	0	N/A	0.608	1.112	0.676	A20	15.3				
Body	LTE Band 66	20	QPSK	1	N/A	7CFB2	1:1	0.00	1720.00	132072	0.0	13.6	13.16	50	50	Top	0	N/A	0.568	1.107	0.629		15.6				
Body	LTE Band 66	20	QPSK	1	N/A	37CFB	1:1	0.06	1720.00	132072	0.0	13.6	13.14	1	99	Bottom	0	N/A	0.010	1.112	0.011		33.1				
Body	LTE Band 66	20	QPSK	1	N/A	37CFB	1:1	0.07	1720.00	132072	0.0	13.6	13.16	50	50	Bottom	0	N/A	0.013	1.107	0.014		32.0				
Body	LTE Band 66	20	QPSK	1	N/A	37CFB	1:1	-0.13	1720.00	132072	0.0	13.6	13.14	1	99	Right	0	N/A	0.139	1.112	0.155		21.7				
Body	LTE Band 66	20	QPSK	1	N/A	37CFB	1:1	-0.18	1720.00	132072	0.0	13.6	13.16	50	50	Right	0	N/A	0.136	1.107	0.151		21.8				
Body	LTE Band 66	20	QPSK	1	N/A	37CFB	1:1	0.07	1720.00	132072	0.0	13.6	13.14	1	99	Left	0	N/A	0.003	1.112	0.003		38.3				
Body	LTE Band 66	10	QPSK	1	N/A	37CFB	1:1	0.07	1720.00	132072	0.0	13.6	13.16	50	50	Left	0	N/A	0.002	1.107	0.002		40.1				
Body	LTE Band 66	20	QPSK	1	N/A	7CFB2	1:1	0.01	1724.90	132121	0.0	13.6	12.60	1	0	Top	0	ULCA 66B	0.527	1.259	0.663		15.3				
Body	LTE Band 66	20	QPSK	1	N/A	7CFB2	1:1	0.03	1720.00	132072	0.0	13.6	12.87	1	99	Top	0	ULCA 66C	0.572	1.183	0.677		15.2				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body															
Spatial Peak												1.6 W/kg (mW/g)															
Uncontrolled Exposure/General Population												averaged over 1 gram															

10.11 LTE Band 25 (PCS) Standalone SAR

Table 10-21
LTE Band 25 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]	
Body	LTE Band 25	20	QPSK	1	Tablet	B4402	1:1	0.04	1905.00	26590	0.0	25.0	24.38	1	50	Back	25	0.142	1.153	0.164	0.518		32.8	31.4	30.0		
Body	LTE Band 25	20	QPSK	1	Tablet	B4402	1:1	-0.03	1905.00	26590	1.0	24.0	23.32	50	50	Back	25	0.112	1.169	0.131	0.521		32.8				
Body	LTE Band 25	20	QPSK	1	Tablet	B4402	1:1	-0.02	1905.00	26590	0.0	25.0	24.38	1	50	Top	25	0.181	1.153	0.209	0.660	A21	31.8				
Body	LTE Band 25	20	QPSK	1	Tablet	B4402	1:1	0.00	1905.00	26590	1.0	24.0	23.32	50	50	Top	25	0.154	1.169	0.200	0.717		31.4				
Body	LTE Band 25	20	QPSK	1	Laptop	B4402	1:1	0.16	1905.00	26590	0.0	25.0	24.38	1	50	Bottom	0	0.035	1.153	0.040	0.128		38.9				
Body	LTE Band 25	20	QPSK	1	Laptop	B4402	1:1	-0.18	1905.00	26590	1.0	24.0	23.32	50	50	Bottom	0	0.020	1.169	0.023	0.093		40.3				
Body	LTE Band 25	20	QPSK	1	Tablet	B4402	1:1	0.05	1905.00	26590	0.0	25.0	24.38	1	50	Right	25	0.085	1.153	0.098	0.310		35.0				
Body	LTE Band 25	20	QPSK	1	Tablet	B4402	1:1	0.01	1905.00	26590	1.0	24.0	23.32	50	50	Right	25	0.073	1.169	0.085	0.340		34.6				
Body	LTE Band 25	20	QPSK	1	Tablet	B4402	1:1	0.11	1905.00	26590	0.0	25.0	24.38	1	50	Left	25	0.016	1.153	0.018	0.058		42.3				
Body	LTE Band 25	20	QPSK	1	Tablet	B4402	1:1	-0.10	1905.00	26590	1.0	24.0	23.32	50	50	Left	25	0.012	1.169	0.014	0.056		42.5				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body															
Spatial Peak												1.6 W/kg (mW/g)															
Uncontrolled Exposure/General Population												averaged over 1 gram															

Table 10-22
LTE Band 25 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]	
Body	LTE Band 25	20	QPSK	1	N/A	7CDG2	1:1	-0.01	1905.00	26590	0.0	12.3	11.69	1	50	Back	0	0.390	1.151	0.449		15.7	13.8	11.3			
Body	LTE Band 25	20	QPSK	1	N/A	7CDG2	1:1	-0.02	1905.00	26590	0.0	12.3	11.73	50	50	Back	0	0.398	1.140	0.454		15.7					
Body	LTE Band 25	20	QPSK	1	N/A	7CD62	1:1	-0.09	1905.00	26590	0.0	12.3	11.69	1	50	Top	0	0.586	1.151	0.674		14.0					
Body	LTE Band 25	20	QPSK	1	Keyboard	7CD62	1:1	-0.01	1905.00	26590	0.0	12.3	11.69	1	50	Top	0	0.606	1.151	0.698	A22	13.8					
Body	LTE Band 25	20	QPSK	1	N/A	7CD62	1:1	0.01	1905.00	26590	0.0	12.3	11.73	50	50	Top	0	0.579	1.140	0.660		14.1					
Body	LTE Band 25	20	QPSK	1	N/A	7CD82	1:1	0.05	1905.00	26590	0.0	12.3	11.69	1	50	Bottom	0	0.002	1.151	0.002		38.6					
Body	LTE Band 25	20	QPSK	1	N/A	7CD82	1:1	0.09	1905.00	26590	0.0	12.3	11.73	50	50	Bottom	0	0.001	1.140	0.001		41.7					
Body	LTE Band 25	20	QPSK	1	N/A	7CD82	1:1	0.20	1905.00	26590	0.0	12.3	11.69	1	50	Right	0	0.055	1.151	0.063		24.2					
Body	LTE Band 25	20	QPSK	1	N/A	7CD82	1:1	0.04	1905.00	26590	0.0	12.3	11.73	50	50	Right	0	0.047	1.140	0.054		25.0					
Body	LTE Band 25	20	QPSK	1	N/A	7CD82	1:1	-0.05	1905.00	26590	0.0	12.3	11.69	1	50	Left	0	0.005	1.151	0.006		34.7					
Body	LTE Band 25	20	QPSK	1	N/A	7CD82	1:1	0.03	1905.00	26590	0.0	12.3	11.73	50	50	Left	0	0.005	1.140	0.006		34.7					
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body															
Spatial Peak												1.6 W/kg (mW/g)															
Uncontrolled Exposure/General Population												averaged over 1 gram															

10.12 LTE Band 2 (PCS) Standalone SAR

Table 10-23
LTE Band 2 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	LTE Band 2	20	QPSK	1	Tablet	7CBR2	1:1	-0.04	1900.00	19100	0.0	25.0	24.16	1	99	Back	25	N/A	0.154	1.213	0.187	0.591		32.2	31.0	30.0
Body	LTE Band 2	20	QPSK	1	Tablet	7CBR2	1:1	-0.03	1900.00	19100	1.0	24.0	23.24	50	50	Back	25	N/A	0.123	1.191	0.146	0.583		32.3		
Body	LTE Band 2	20	QPSK	1	Tablet	7CF42	1:1	-0.03	1900.00	19100	0.0	25.0	24.16	1	99	Top	25	N/A	0.203	1.213	0.246	0.779		31.0		
Body	LTE Band 2	20	QPSK	1	Tablet	7CF42	1:1	0.06	1900.00	19100	0.0	25.0	24.11	1	0	Top	25	N/A	0.198	1.227	0.243	0.769		31.1		
Body	LTE Band 2	20	QPSK	1	Tablet	7CBR2	1:1	0.00	1900.00	19100	1.0	24.0	23.24	50	50	Top	25	N/A	0.162	1.191	0.193	0.788		31.1		
Body	LTE Band 2	20	QPSK	1	Laptop	7CBR2	1:1	-0.07	1900.00	19100	0.0	25.0	24.16	1	99	Bottom	25	N/A	0.095	1.213	0.042	0.134		38.7		
Body	LTE Band 2	20	QPSK	1	Laptop	7CBR2	1:1	-0.09	1900.00	19100	1.0	24.0	23.24	50	50	Bottom	25	N/A	0.031	1.191	0.037	0.147		38.3		
Body	LTE Band 2	20	QPSK	1	Tablet	B44G2	1:1	-0.13	1900.00	19100	0.0	25.0	24.16	1	99	Right	25	N/A	0.075	1.213	0.091	0.288		35.4		
Body	LTE Band 2	20	QPSK	1	Tablet	B44G2	1:1	0.06	1900.00	19100	1.0	24.0	23.24	50	50	Right	25	N/A	0.052	1.191	0.062	0.247		36.0		
Body	LTE Band 2	20	QPSK	1	Tablet	B44G2	1:1	-0.16	1900.00	19100	0.0	25.0	24													

Table 10-24
LTE Band 2 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	LTE Band 2	20	QPSK	1	N/A	7CDB2	1:1	-0.12	1900.00	19100	0.0	12.3	11.45	1	50	Back	0	N/A	0.375	1.216	0.456		15.7	12.5	11.3
Body	LTE Band 2	20	QPSK	1	N/A	7CDB2	1:1	0.00	1900.00	19100	0.0	12.3	11.40	50	50	Back	0	N/A	0.384	1.230	0.472		15.5		
Body	LTE Band 2	20	QPSK	1	N/A	7CDF42	1:1	-0.01	1860.00	18700	0.0	12.3	11.05	1	50	Top	0	N/A	0.716	1.334	0.955		12.5		
Body	LTE Band 2	20	QPSK	1	N/A	7CDF42	1:1	0.00	1860.00	18700	0.0	12.3	11.01	1	99	Top	0	N/A	0.704	1.346	0.948		12.5		
Body	LTE Band 2	20	QPSK	1	Keyboard	7CDF42	1:1	0.04	1860.00	18700	0.0	12.3	11.05	1	50	Top	0	N/A	0.690	1.334	0.867		12.9		
Body	LTE Band 2	20	QPSK	1	N/A	7CDF42	1:1	-0.05	1880.00	18900	0.0	12.3	11.21	1	99	Top	0	N/A	0.724	1.285	0.930		12.6		
Body	LTE Band 2	20	QPSK	1	N/A	7CDF42	1:1	0.02	1900.00	19100	0.0	12.3	11.45	1	50	Top	0	N/A	0.745	1.216	0.906		12.7		
Body	LTE Band 2	20	QPSK	1	N/A	7CDF42	1:1	0.00	1860.00	18700	0.0	12.3	11.28	50	50	Top	0	N/A	0.736	1.265	0.931		12.6		
Body	LTE Band 2	20	QPSK	1	N/A	7CF42	1:1	-0.06	1880.00	18900	0.0	12.3	11.34	50	50	Top	0	N/A	0.757	1.247	0.944		12.5		
Body	LTE Band 2	20	QPSK	1	N/A	7CF42	1:1	0.00	1900.00	19100	0.0	12.3	11.40	50	50	Top	0	N/A	0.753	1.230	0.926		12.6		
Body	LTE Band 2	20	QPSK	1	N/A	7CF42	1:1	-0.01	1900.00	19100	0.0	12.3	11.39	100	0	Top	0	N/A	0.773	1.233	0.953	A24	12.5		
Body	LTE Band 2	20	QPSK	1	N/A	7CDJ2	1:1	0.05	1900.00	19100	0.0	12.3	11.45	1	50	Bottom	0	N/A	0.941	1.216	0.950		25.3		
Body	LTE Band 2	20	QPSK	1	N/A	7CDJ2	1:1	0.03	1900.00	19100	0.0	12.3	11.40	50	50	Bottom	0	N/A	0.929	1.230	0.936		26.7		
Body	LTE Band 2	20	QPSK	1	N/A	7CDJ2	1:1	0.08	1900.00	19100	0.0	12.3	11.45	1	50	Right	0	N/A	0.930	1.216	0.936		26.6		
Body	LTE Band 2	20	QPSK	1	N/A	7CDJ2	1:1	-0.12	1900.00	19100	0.0	12.3	11.40	50	50	Right	0	N/A	0.928	1.230	0.934		26.9		
Body	LTE Band 2	20	QPSK	1	N/A	7CDJ2	1:1	0.01	1900.00	19100	0.0	12.3	11.45	1	50	Left	0	N/A	0.903	1.216	0.904		36.6		
Body	LTE Band 2	20	QPSK	1	N/A	7CDJ2	1:1	-0.16	1900.00	19100	0.0	12.3	11.40	50	50	Left	0	N/A	0.904	1.230	0.905		35.3		
Body	LTE Band 2	20	QPSK	1	N/A	7CDF42	1:1	0.02	1860.00	18700	0.0	12.3	10.97	1	99	Top	0	ULCA 2C	0.701	1.358	0.952		12.5		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																			Body 1.6 W/kg (mW/g) averaged over 1 gram						
Uncontrolled Exposure/General Population																									

10.13 LTE Band 30 Standalone SAR

Table 10-25
LTE Band 30 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	LTE Band 30	10	QPSK	1	Tablet	7CCK2	1:1	-0.02	2310.00	27710	0.0	23.0	22.11	1	25	Back	25	0.098	1.227	0.120	0.437		32.1	28.6	28.6	
Body	LTE Band 30	10	QPSK	1	Tablet	7CCK2	1:1	0.06	2310.00	27710	1.0	22.0	21.08	25	25	Back	25	0.076	1.236	0.094	0.429		32.2			
Body	LTE Band 30	10	QPSK	1	Tablet	7CCK2	1:1	-0.02	2310.00	27710	0.0	23.0	22.11	1	25	Top	25	0.217	1.227	0.266	0.967	A25	28.7			
Body	LTE Band 30	10	QPSK	1	Tablet	7CCK2	1:1	0.02	2310.00	27710	1.0	22.0	21.08	25	25	Top	25	0.174	1.236	0.215	0.983		28.6			
Body	LTE Band 30	10	QPSK	1	Laptop	B44R2	1:1	0.07	2310.00	27710	0.0	23.0	22.11	1	25	Bottom	0	0.019	1.227	0.023	0.085		39.3			
Body	LTE Band 30	10	QPSK	1	Laptop	B44R2	1:1	0.08	2310.00	27710	1.0	22.0	21.08	25	25	Bottom	0	0.014	1.236	0.017	0.079		39.6			
Body	LTE Band 30	10	QPSK	1	Tablet	7CCK2	1:1	0.11	2310.00	27710	0.0	23.0	22.11	1	25	Right	25	0.063	1.227	0.077	0.281		34.1			
Body	LTE Band 30	10	QPSK	1	Tablet	7CCK2	1:1	0.03	2310.00	27710	1.0	22.0	21.08	25	25	Right	25	0.050	1.236	0.062	0.282		34.0			
Body	LTE Band 30	10	QPSK	1	Tablet	7CCK2	1:1	0.14	2310.00	27710	0.0	23.0	22.11	1	25	Left	25	0.027	1.227	0.033	0.120		37.7			
Body	LTE Band 30	10	QPSK	1	Tablet	7CCK2	1:1	-0.07	2310.00	27710	1.0	22.0	21.08	25	25	Left	25	0.021	1.236	0.026	0.119		37.8			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																			Body 1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																										

Table 10-26
LTE Band 30 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	LTE Band 30	10	QPSK	1	N/A	3FCF8	1:1	-0.02	2310.00	27710	0.0	11.9	11.23	1	25	Back	0	0.462	1.167	0.530		14.5	12.2	10.9	
Body	LTE Band 30	10	QPSK	1	N/A	3FCF8	1:1	-0.03	2310.00	27710	0.0	11.9	11.15	25	12	Back	0	0.432	1.189	0.514		14.7			
Body	LTE Band 30	10	QPSK	1	N/A	3FCF8	1:1	-0.01	2310.00	27710	0.0	11.9	11.23	1	25	Top	0	0.766	1.167	0.694		12.3			
Body	LTE Band 30	10	QPSK	1	N/A	3FCF8	1:1	-0.02	2310.00	27710	0.0	11.9	11.15	25	12	Top	0	0.775	1.189	0.921	A26	12.2			
Body	LTE Band 30	10	QPSK	1	Keyboard	7CCY2	1:1	-0.15	2310.00	27710	0.0	11.9	11.15	25	12	Top	0	0.768	1.189	0.913		12.2			
Body	LTE Band 30	10	QPSK	1	N/A	3FCF8	1:1	0.01	2310.00	27710	0.0	11.9	11.10	50	0	Top	0	0.755	1.202	0.908		12.3			
Body	LTE Band 30	10	QPSK	1	N/A	7CCY2	1:1	0.05	2310.00	27710	0.0	11.9	11.23	1	25	Bottom	0	0.000	1.167	0.000		51.2			
Body	LTE Band 30	10	QPSK	1	N/A	7CCY2	1:1	0.05	2310.00	27710	0.0	11.9	11.15	25	12	Bottom	0	0.002	1.189	0.002		38.1			
Body	LTE Band 30	10	QPSK	1	N/A	7CCY2	1:1	0.09	2310.00	27710	0.0	11.9	11.23	1	25	Right	0	0.040	1.167	0.047		25.2			
Body	LTE Band 30	10	QPSK	1	N/A	7CCY2	1:1	0.05	2310.00	27710	0.0	11.9	11.15	25	12	Right	0	0.044	1.189	0.052		24.7			
Body	LTE Band 30	10	QPSK	1	N/A	7CCY2	1:1	0.21	2310.00	27710	0.0	11.9	11.23	1	25	Left	0	0.016	1.167	0.019		29.1			
Body	LTE Band 30	10	QPSK	1	N/A	7CCY2	1:1	-0.05	2310.00	27710	0.0	11.9	11.15	25	12	Left	0	0.015	1.189	0.018		29.3			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																			Body 1.6 W/kg (mW/g) averaged over 1 gram						
Uncontrolled Exposure/General Population																									

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10.14 LTE Band 41 Standalone SAR

Table 10-27
LTE Band 41 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 41	20	QPSK	1	Tablet	B46G2	1:1.58	0.02	2680.00	41490	0.0	25.0	24.49	1	50	Back	25	N/A	0.075	1.125	0.084	0.243				
Body	LTE Band 41	20	QPSK	1	Tablet	B46G2	1:1.58	0.09	2680.00	41490	1.0	24.0	23.62	50	25	Back	25	N/A	0.075	1.091	0.082	0.297				
Body	LTE Band 41	20	QPSK	1	Tablet	B46G2	1:1.58	0.00	2680.00	41490	0.0	25.0	24.49	1	0	Top	25	N/A	0.289	1.127	0.328	0.940				
Body	LTE Band 41	20	QPSK	1	Tablet	B46G2	1:1.58	-0.05	2680.00	41490	0.0	25.0	24.49	1	50	Top	25	N/A	0.255	1.125	0.287	0.827				
Body	LTE Band 41	20	QPSK	1	Tablet	B46G2	1:2.31	-0.02	2680.00	41490	0.0	27.0	26.55	1	50	Top	25	N/A	0.265	1.109	0.294	0.773				
Body	LTE Band 41	20	QPSK	1	Tablet	B46G2	1:1.58	-0.01	2680.00	41490	1.0	24.0	23.62	50	25	Top	25	N/A	0.220	1.091	0.240	0.872				
Body	LTE Band 41	20	QPSK	1	Laptop	B46G2	1:1.58	0.09	2680.00	41490	0.0	25.0	24.49	1	50	Bottom	0	N/A	0.004	1.125	0.005	0.013			27.6	27.6
Body	LTE Band 41	20	QPSK	1	Laptop	B46G2	1:1.58	0.05	2680.00	41490	1.0	24.0	23.62	50	25	Bottom	0	N/A	0.002	1.091	0.002	0.008				
Body	LTE Band 41	20	QPSK	1	Tablet	37C8R	1:1.58	0.00	2680.00	41490	0.0	25.0	24.49	1	50	Right	25	N/A	0.002	1.125	0.007	0.136				
Body	LTE Band 41	20	QPSK	1	Tablet	37C8R	1:1.58	0.07	2680.00	41490	1.0	24.0	23.62	50	25	Right	25	N/A	0.005	1.091	0.038	0.139				
Body	LTE Band 41	20	QPSK	1	Tablet	37C8R	1:1.58	0.17	2680.00	41490	0.0	25.0	24.49	1	50	Left	25	N/A	0.019	1.125	0.021	0.062				
Body	LTE Band 41	20	QPSK	1	Tablet	37C8R	1:1.58	0.08	2680.00	41490	1.0	24.0	23.62	50	25	Left	25	N/A	0.014	1.091	0.015	0.055				
Body	LTE Band 41	20	QPSK	1	Tablet	B46G2	1:1.58	-0.07	2680.00	41490	0.0	25.0	24.52	1	0	Top	25	ULCA 41C	0.306	1.117	0.342	0.986	A27		27.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Body 1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak																			Uncontrolled Exposure/General Population							

Note: Green entry represents HPUE measurement

Table 10-28
LTE Band 41 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	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]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	-0.02	2506.00	39750	0.0	13.5	13.33	1	0	Back	0	N/A	0.533	1.040	0.554	14.0				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.03	2549.50	40185	0.0	13.5	12.90	1	50	Back	0	N/A	0.547	1.148	0.628	13.5				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.02	2593.00	40620	0.0	13.5	12.97	1	0	Back	0	N/A	0.567	1.130	0.641	13.4				
Body	LTE Band 41	20	QPSK	1	N/A	7CFB2	1:1.58	0.00	2636.50	41055	0.0	13.5	12.66	1	0	Back	0	N/A	0.327	1.213	0.397	15.5				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.01	2680.00	41490	0.0	13.5	13.22	1	0	Back	0	N/A	0.619	1.067	0.660	13.3				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	-0.02	2506.00	39750	0.0	13.5	13.21	50	0	Back	0	N/A	0.545	1.069	0.583	13.8				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	-0.04	2549.50	40185	0.0	13.5	12.94	50	25	Back	0	N/A	0.559	1.138	0.636	13.4				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	-0.02	2593.00	40620	0.0	13.5	13.00	50	25	Back	0	N/A	0.584	1.122	0.655	13.3				
Body	LTE Band 41	20	QPSK	1	N/A	7CFB2	1:1.58	0.01	2636.50	41055	0.0	13.5	12.30	50	0	Back	0	N/A	0.330	1.318	0.435	15.1				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	-0.10	2680.00	41490	0.0	13.5	13.20	50	0	Back	0	N/A	0.614	1.072	0.658	13.3				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	-0.01	2506.00	39750	0.0	13.5	13.06	100	0	Back	0	N/A	0.513	1.107	0.568	13.9				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.01	2506.00	39750	0.0	13.5	13.33	1	0	Top	0	N/A	0.820	1.040	0.853	12.2				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.04	2549.50	40185	0.0	13.5	12.90	1	50	Top	0	N/A	0.810	1.148	0.930	11.8				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.01	2593.00	40620	0.0	13.5	12.97	1	0	Top	0	N/A	0.816	1.130	0.922	11.8				
Body	LTE Band 41	20	QPSK	1	N/A	7CFB2	1:1.58	-0.01	2636.50	41055	0.0	13.5	12.66	1	0	Top	0	N/A	0.499	1.213	0.605	13.6				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	-0.10	2680.00	41490	0.0	13.5	13.22	1	0	Top	0	N/A	0.889	1.067	0.949	A28				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:2.31	0.01	2680.00	41490	0.0	15.1	14.72	1	0	Top	0	N/A	0.883	1.091	0.963	11.6			11.5	10.5
Body	LTE Band 41	20	QPSK	1	Keyboard	7CDG2	1:1.58	0.00	2680.00	41490	0.0	13.5	13.22	1	0	Top	0	N/A	0.754	1.067	0.805	12.4				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.00	2680.00	41490	0.0	13.5	13.12	1	0	Top	0	N/A	0.908	1.067	0.863	12.1				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.01	2506.00	39750	0.0	13.5	13.21	50	0	Top	0	N/A	0.838	1.069	0.896	11.9				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.00	2549.50	40185	0.0	13.5	12.94	50	25	Top	0	N/A	0.828	1.138	0.942	11.7				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	-0.01	2593.00	40620	0.0	13.5	13.00	50	25	Top	0	N/A	0.814	1.122	0.913	11.9				
Body	LTE Band 41	20	QPSK	1	N/A	7CFB2	1:1.58	0.06	2636.50	41055	0.0	13.5	12.30	50	0	Top	0	N/A	0.511	1.318	0.673	13.2				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.01	2680.00	41490	0.0	13.5	13.20	50	0	Top	0	N/A	0.848	1.072	0.909	11.9				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.02	2506.00	39750	0.0	13.5	13.06	100	0	Top	0	N/A	0.676	1.107	0.748	12.7				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.06	2506.00	39750	0.0	13.5	13.33	1	0	Bottom	0	N/A	0.000	1.040	0.000	51.3				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	-0.09	2506.00	39750	0.0	13.5	13.21	50	0	Bottom	0	N/A	0.000	1.069	0.000	51.2				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.09	2506.00	39750	0.0	13.5	13.33	1	0	Right	0	N/A	0.005	1.040	0.006	25.9				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.02	2506.00	39750	0.0	13.5	13.21	50	0	Right	0	N/A	0.005	1.069	0.007	25.7				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.06	2506.00	39750	0.0	13.5	13.33	1	0	Left	0	N/A	0.014	1.040	0.015	29.8				
Body	LTE Band 41	20	QPSK	1	N/A	7CDG2	1:1.58	0.05	2506.00	39750	0.0	13.5	13.21	50	0	Left	0	N/A	0.014	1.069	0.015	29.7				
Body	LTE Band 41	20	QPSK	1	UCLA	7CDG2	1:1.58	-0.02	2680.00	41490	0.0	13.5	12.60	1	0	Top	0	ULCA 41C	0.806	1.23	0.991	11.5				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Body 1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak																			Uncontrolled Exposure/General Population							

Note: Blue entry represents variability measurement

Note: Green entry represents HPUE measurement

10.15 LTE Band 48 Standalone SAR

Table 10-29
LTE Band 48 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	D
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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body	LTE Band 48	20	QPSK	3	Tablet	B4472	1:1.58	0.02	3560.00	55340	0.0	20.6	20.50	1	0	Back	25	0.093	1.023	1.055	0.057	0.434		31.2		
Body	LTE Band 48	20	QPSK	3	Tablet	B4472	1:1.58	-0.04	3560.00	55340	1.0	19.6	19.40	50	25	Back	25	0.031	1.047	1.055	0.034	0.327		32.5		
Body	LTE Band 48	20	QPSK	3	Tablet	B4472	1:1.58	0.03	3560.00	55340	0.0	20.6	20.50	1	0	Top	25	0.129	1.023	1.055	0.139	1.056	A29	27.4		
Body	LTE Band 48	20	QPSK	3	Tablet	B4472	1:1.58	0.01	3560.00	55340	1.0	19.6	19.40	50	25	Top	25	0.099	1.047	1.055	0.109	1.044		27.4		
Body	LTE Band 48	20	QPSK	3	Laptop	B4472	1:1.58	0.07	3560.00	55340	0.0	20.6	20.50	1	0	Bottom	0	0.000	1.023	1.055	0.000	0.000		27.4	27.4	
Body	LTE Band 48	20	QPSK	3	Laptop	B4472	1:1.58	0.01	3560.00	55340	1.0	19.6	19.40	50	25	Bottom	0	0.000	1.047	1.055	0.000	0.000		27.4		
Body	LTE Band 48	20	QPSK	3	Tablet	B4472	1:1.58	0.01	3560.00	55340	0.0	20.6	20.50	1	0	Right	25	0.014	1.023	1.055	0.015	0.115		37.0		
Body	LTE Band 48	20	QPSK	3	Tablet	7CB2	1:1.58	0.01	3560.00	55340	1.0	19.6	19.40	50	25	Right	25	0.011	1.047	1.055	0.012	0.116		37.0		
Body	LTE Band 48	20	QPSK	3	Tablet	B4472	1:1.58	0.04	3560.00	55340	0.0	20.6	20.50	1	0	Left	25	0.022	1.023	1.055	0.024	0.180		35.0		
Body	LTE Band 48	20	QPSK	3	Tablet	B4472	1:1.58	0.09	3560.00	55340	1.0	19.6	19.40	50	25	Left	25	0.018	1.047	1.055	0.020	0.190		34.8		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																							Body			
Spatial Peak																							1.6 W/kg (mW/g)			
Uncontrolled Exposure/General Population																							averaged over 1 gram			

Table 10-30
LTE Band 48 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.02	3646.70	56207	0.0	11.9	11.39	1	50	Back	0	N/A	0.280	1.125	0.315			14.9		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.04	3646.70	56207	0.0	11.9	11.45	50	25	Back	0	N/A	0.206	1.109	0.328			14.7		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.02	3560.00	55340	0.0	11.9	10.84	1	50	Top	0	N/A	0.587	1.276	0.749			11.1		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	-0.06	3603.30	55773	0.0	11.9	11.10	1	99	Top	0	N/A	0.654	1.202	0.786			10.9		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	-0.11	3646.70	56207	0.0	11.9	11.39	1	50	Top	0	N/A	0.711	1.125	0.800			10.8		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	-0.06	3603.30	55773	0.0	11.9	11.29	1	50	Top	0	N/A	0.667	1.167	0.802			10.8		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.13	3560.00	55340	0.0	11.9	10.98	50	50	Top	0	N/A	0.592	1.236	0.732			11.2		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.00	3603.30	55773	0.0	11.9	11.24	50	25	Top	0	N/A	0.664	1.164	0.773			11.0		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.05	3646.70	56207	0.0	11.9	11.45	50	25	Top	0	N/A	0.726	1.109	0.805			10.8		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.18	3646.70	56207	0.0	11.9	11.41	50	0	Top	0	N/A	0.733	1.119	0.820			10.7		
Body	LTE Band 48	20	QPSK	2	Keyboard	7CDP2	1:1.58	-0.05	3646.70	56207	0.0	11.9	11.41	50	0	Top	0	N/A	0.838	1.119	0.938		A30	10.1		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	-0.07	3603.30	55640	0.0	11.9	11.36	50	25	Top	0	N/A	0.710	1.132	0.804			10.8		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.02	3646.70	56207	0.0	11.9	11.38	100	0	Top	0	N/A	0.727	1.127	0.819			10.7		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.01	3646.70	56207	0.0	11.9	11.39	1	50	Bottom	0	N/A	0.000	1.125	0.000			49.4		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.04	3646.70	56207	0.0	11.9	11.45	50	25	Bottom	0	N/A	0.000	1.109	0.000			49.4		
Body	LTE Band 48	20	QPSK	2	N/A	7CDP2	1:1.58	0.05	3646.70	56207	0.0	11.9	11.39	1	50	Right	0	N/A	0.003	1.125	0.003			34.6		
Body	LTE Band 48	20	QPSK	2	N/A	7CDP2	1:1.58	0.02	3646.70	56207	0.0	11.9	11.39	1	50	Right	0	N/A	0.003	1.109	0.003			34.6		
Body	LTE Band 48	20	QPSK	2	N/A	7CDP2	1:1.58	0.02	3646.70	56207	0.0	11.9	11.39	1	50	Left	0	N/A	0.000	1.125	0.000			49.4		
Body	LTE Band 48	20	QPSK	2	N/A	7CDP2	1:1.58	0.04	3646.70	56207	0.0	11.9	11.45	50	25	Left	0	N/A	0.000	1.109	0.000			49.4		
Body	LTE Band 48	20	QPSK	2	N/A	7CDO2	1:1.58	0.00	3626.90	56009	0.0	11.9	11.38	50	0	Top	0	ULCA 48C	0.749	1.127	0.844			10.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																							Body			
Spatial Peak																							1.6 W/kg (mW/g)			
Uncontrolled Exposure/General Population																							averaged over 1 gram			
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body	LTE Band 48	20	QPSK	3	N/A	B4472	1:1.58	-0.01	3560.00	55340	0.0	11.9	11.33	1	0	Back	0	0.327	1.140	1.055	0.393			14.2		
Body	LTE Band 48	20	QPSK	3	N/A	B4472	1:1.58	0.03	3560.00	55340	0.0	11.9	11.39	50	25	Back	0	0.369	1.125	1.055	0.438			13.7		
Body	LTE Band 48	20	QPSK	3	N/A	7CDO2	1:1.58	-0.03	3560.00	55340	0.0	11.9	11.33	1	0	Top	0	0.649	1.140	1.055	0.781			11.2		
Body	LTE Band 48	20	QPSK	3	Keyboard	3844T	1:1.58	0.07	3560.00	55340	0.0	11.9	11.39	1	0	Top	0	0.591	1.140	1.055	0.711			11.6		
Body	LTE Band 48	20	QPSK	3	N/A	7CDO2	1:1.58	0.02	3603.30	55773	0.0	11.9	10.87	1	0	Top	0	0.584	1.268	1.055	0.787			11.1		
Body	LTE Band 48	20	QPSK	3	N/A	7CDP2	1:1.58	0.00	3646.70	56207	0.0	11.9	10.55	1	99	Top	0	0.516	1.365	1.055	0.743			11.4		
Body	LTE Band 48	20	QPSK	3	N/A	7CDP2	1:1.58	0.03	3690.00	56640	0.0	11.9	10.80	1	0	Top	0	0.485	1.288	1.055	0.659			11.9		
Body	LTE Band 48	20	QPSK	3	N/A	7CDO2	1:1.58	0.02	3560.00	55340	0.0	11.9	11.39	50	25	Top	0	0.647	1.125	1.055	0.788			11.2		
Body	LTE Band 48	20	QPSK	3	N/A	7CDP2	1:1.58	-0.03	3603.30	55773	0.0	11.9	10.96	50	50	Top	0	0.566	1.242	1.055	0.742			11.4		
Body	LTE Band 48	20	QPSK	3	N/A	7CDP2	1:1.58	0.01	3646.70	56207	0.0	11.9	10.69	50	50	Top	0	0.536	1.321	1.055	0.747			11.4		
Body	LTE Band 48	20	QPSK	3	N/A	7CDP2	1:1.58	0.01	3690.00	56640	0.0	11.9	10.79	50	25	Top	0	0.472	1.291	1.055	0.543			12.0		
Body	LTE Band 48	20	QPSK	3	N/A	7CDP2	1:1.58	-0.04	3560.00	55340	0.0	11.9	11.32	100	0	Top	0	0.640	1.143	1.055	0.772			11.2		
Body	LTE Band 48	20	QPSK	3	N/A	3844T	1:1.58	0.01	3560.00	55340	0.0	11.9	11.24	1	99	Bottom	0	0.000	1.164	1.055	0.000			49.2		
Body	LTE Band 48	20	QPSK	3	N/A	3844T	1:1.58	0.01	3560.00	55340	0.0	11.9	11.39	50	25	Bottom	0	0.000	1.125	1.055	0.000			49.4		
Body	LTE Band 48	20	QPSK	3	N/A	3844T	1:1.58	0.07	3560.00	55340	0.0	11.9	11.24	1	99	Right	0	0.007	1.164	1.055	0.009			30.8		

**Table 10-32
NR Band n71 Tablet**

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]	
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	17.3	16.35	1	1	Back	0	0.274	1.245	0.341		21.9	17.0	16.3	
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	17.3	16.38	50	0	Back	0	0.281	1.236	0.347		21.8			
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	17.3	16.35	1	1	Top	0	0.380	1.245	0.473		20.5			
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	17.3	16.38	50	0	Top	0	0.384	1.236	0.475		20.5			
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	17.3	16.35	1	1	Bottom	0	0.012	1.245	0.015		35.5			
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	17.3	16.38	50	0	Bottom	0	0.013	1.236	0.016		35.2			
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	-0.16	680.50	136100	DFT-s-OFDM	0.0	17.3	16.35	1	1	Right	0	0.002	1.245	0.002		43.3			
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	17.3	16.38	50	0	Right	0	0.002	1.236	0.002		43.3			
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	17.3	16.35	1	1	Left	0	0.842	1.245	1.048	A32	17.0			
Body	NR Band n71	20	QPSK	4	Keyboard	7CC72	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	17.3	16.35	1	1	Left	0	0.127	1.245	0.158		25.3			
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	17.3	16.38	50	0	Left	0	0.830	1.236	1.026		17.1			
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	17.3	16.34	100	0	Left	0	0.793	1.247	0.989		17.3			
Body	NR Band n71	20	QPSK	4	N/A	7CC72	1:1	0.08	680.50	136100	CP-OFDM	0.0	17.3	16.18	1	1	Left	0	0.790	1.294	1.022		17.2			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.17 NR Band n12 Standalone SAR

**Table 10-33
NR Band n12 Laptop and Tablet - No Motion**

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	NR Band n12	15	QPSK	4	Tablet	7CC62	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	25.0	24.87	1	1	Back	25	0.128	1.030	0.132	0.417		33.7	33.2	30.0
Body	NR Band n12	15	QPSK	4	Tablet	7CC62	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.0	24.74	36	22	Back	25	0.141	1.062	0.150	0.473	A33	33.2		
Body	NR Band n12	15	QPSK	4	Tablet	7CC62	1:1	-0.01	707.50	141500	CP-OFDM	1.5	23.5	23.48	1	1	Back	25	0.091	1.005	0.091	0.408		33.8		
Body	NR Band n12	15	QPSK	4	Tablet	7CC62	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.0	24.87	1	1	Top	25	0.061	1.030	0.063	0.199		37.0		
Body	NR Band n12	15	QPSK	4	Tablet	7CC62	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.0	24.74	36	22	Top	25	0.070	1.062	0.074	0.235		36.2		
Body	NR Band n12	15	QPSK	4	Laptop	7CC62	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	25.0	24.87	1	1	Bottom	0	0.047	1.030	0.048	0.153		38.1		
Body	NR Band n12	15	QPSK	4	Laptop	7CC62	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.0	24.74	36	22	Bottom	0	0.049	1.062	0.052	0.164		37.8		
Body	NR Band n12	15	QPSK	4	Tablet	7CC62	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.0	24.87	1	1	Right	25	0.004	1.030	0.004	0.133		48.8		
Body	NR Band n12	15	QPSK	4	Tablet	7CC62	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.0	24.74	36	22	Right	25	0.005	1.062	0.005	0.137		47.7		
Body	NR Band n12	15	QPSK	4	Tablet	7CC62	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.0	24.87	1	1	Left	25	0.073	1.030	0.075	0.238		36.2		
Body	NR Band n12	15	QPSK	4	Tablet	7CC62	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.0	24.74	36	22	Left	25	0.088	1.062	0.100	0.316		35.0		
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 10-34
NR Band n12 Tablet**

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]	
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	17.8	17.41	1	1	Back	0	0.438	1.094	0.479		20.9	18.5	16.8	
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	17.8	17.40	36	0	Back	0	0.439	1.096	0.481		20.9			
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	17.8	17.41	1	1	Top	0	0.489	1.094	0.535		20.5			
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	17.8	17.40	36	0	Top	0	0.476	1.096	0.522		20.6			
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	-0.12	707.50	141500	DFT-s-OFDM	0.0	17.8	17.41	1	1	Bottom	0	0.023	1.094	0.025		33.7			
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	17.8	17.40	36	0	Bottom	0	0.025	1.096	0.027		33.4			
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	17.8	17.41	1	1	Right	0	0.004	1.094	0.004		41.3			
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	0.16	707.50	141500	DFT-s-OFDM	0.0	17.8	17.40	36	0	Right	0	0.004	1.096	0.004		41.3			
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	-0.08	707.50	141500	DFT-s-OFDM	0.0	17.8	17.41	1	1	Left	0	0.777	1.094	0.850	A34	18.5			
Body	NR Band n12	15	QPSK	4	Keyboard	7CC72	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	17.8	17.41	1	1	Left	0	0.191	1.094	0.209		25.5			
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	17.8	17.40	36	0	Left	0	0.695	1.096	0.782		18.9			
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	17.8	17.30	75	0	Left	0	0.672	1.122	0.754		19.0			
Body	NR Band n12	15	QPSK	4	N/A	7CC72	1:1	0.08	707.50	141500	CP-OFDM	0.0	17.8	17.40	1	1	Left	0	0.774	1.096	0.848		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							

10.18 NR Band n14 Standalone SAR

**Table 10-35
NR Band n14 Laptop and Tablet - No Motion**

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	NR Band n14	10	QPSK	4	Tablet	7CC62	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.0	23.81	1	26	Back	25	0.111	1.315	0.146	0.462		33.3	32.6	30.0
Body	NR Band n14	10	QPSK	4	Tablet	7CC62	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	25.0	23.83	25	14	Back	25	0.111	1.309	0.145	0.460		33.3		
Body	NR Band n14	10	QPSK	4	Tablet	7CC62	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.0	23.81	1	26	Top	25	0.131	1.315	0.172	0.545		32.6		
Body	NR Band n14	10	QPSK	4	Tablet	7CC62	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.0	23.83	25	14	Top	25	0.132	1.309	0.173	0.546	A35	32.6		
Body	NR Band n14	10	QPSK	4	Tablet	7CC62	1:1	-0.09	793.00	158600	CP-OFDM	1.5	23.5	23.72	1	1	Top	25	0.091	1.312	0.119	0.533		32.7		
Body	NR Band n14	10	QPSK	4	Laptop	7CC62	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	25.0	23.81	1	26	Bottom	0	0.047	1.315	0.062	0.195		37.0		
Body	NR Band n14	10	QPSK	4	Laptop	7CC62	1:1	0.11	793.00	158600	DFT-s-OFDM	0.0	25.0	23.83	25	14	Bottom	0	0.048	1.309	0.063	0.199		37.0		
Body	NR Band n14	10	QPSK	4	Tablet	7CC62	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	25.0	23.81	1	26	Right	25	0.002	1.315	0.003	0.008		50.7		
Body	NR Band n14	10	QPSK	4	Tablet	7CC62	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.0	23.83	25	14	Right	25	0.003	1.309	0.004	0.012		49.0		
Body	NR Band n14	10	QPSK	4	Tablet	7CC62	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	25.0	23.81	1	26	Left	25	0.067	1.315	0.088	0.279		35.5		
Body	NR Band n14	10	QPSK	4	Tablet	7CC62	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.0	23.83	25	14	Left	25	0.067	1.309	0.088	0.277		35.5		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 10-36
NR Band n14 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]	
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	1	1	Back	0	0.456	1.247	0.569		21.2	18.5	17.8	
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	25	14	Back	0	0.419	1.247	0.522		21.6			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	1	1	Top	0	0.421	1.247	0.525		21.5			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	25	14	Top	0	0.398	1.247	0.486		21.8			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	1	1	Bottom	0	0.024	1.247	0.030		34.0			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	25	14	Bottom	0	0.024	1.247	0.030		34.0			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	1	1	Right	0	0.006	1.247	0.007		40.0			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	25	14	Right	0	0.005	1.247	0.006		40.8			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	1	1	Left	0	0.858	1.247	1.070	A36	28.3			
Body	NR Band n14	10	QPSK	4	Keyboard	7CC72	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	1	1	Left	0	0.221	1.247	0.276		25.5			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	1	1	Left	0	0.367	1.247	0.460		28.5			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	-0.12	793.00	158600	DFT-s-OFDM	0.0	18.8	17.84	25	14	Left	0	0.745	1.247	0.929		19.1			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	-0.12	793.00	158600	DFT-s-OFDM	0.0	18.8	17.83	50	0	Left	0	0.855	1.250	1.069		18.5			
Body	NR Band n14	10	QPSK	4	N/A	7CC72	1:1	0.00	793.00	158600	CP-OFDM	0.0	18.8	17.70	1	1	Left	0	0.767	1.288	0.988		18.8			
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

10.19 NR Band n26 Standalone SAR

Table 10-37
NR Band n26 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	NR Band n26	20	QPSK	4	Tablet	B4462	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	25.0	24.30	1	53	Back	25	0.135	1.175	0.159	0.502		32.9	32.9	30.0
Body	NR Band n26	20	QPSK	4	Tablet	B4462	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.0	24.30	50	28	Back	25	0.136	1.175	0.160	0.505	A37	32.9		
Body	NR Band n26	20	QPSK	4	Tablet	B4462	1:1	-0.07	831.50	166300	CP-OFDM	1.5	23.5	22.69	1	1	Back	25	0.021	1.205	0.025	0.113		39.4		
Body	NR Band n26	20	QPSK	4	Tablet	B4462	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.0	24.30	1	53	Top	25	0.091	1.175	0.107	0.338		34.7		
Body	NR Band n26	20	QPSK	4	Tablet	B4462	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	24.30	50	28	Top	25	0.097	1.175	0.114	0.360		34.4		
Body	NR Band n26	20	QPSK	4	Laptop	B844R	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.0	24.30	1	53	Bottom	0	0.027	1.175	0.032	0.100		39.9		
Body	NR Band n26	20	QPSK	4	Laptop	B844R	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.0	24.30	50	28	Bottom	0	0.019	1.175	0.029	0.123		39.1		
Body	NR Band n26	20	QPSK	4	Tablet	7CD12	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.0	24.30	1	53	Right	25	0.005	1.175	0.006	0.019		47.3		
Body	NR Band n26	20	QPSK	4	Tablet	7CD12	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	24.30	50	28	Right	25	0.004	1.175	0.005	0.015		48.2		
Body	NR Band n26	20	QPSK	4	Tablet	B4462	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	24.30	1	53	Left	25	0.023	1.175	0.027	0.085		40.6		
Body	NR Band n26	20	QPSK	4	Tablet	B4462	1:1	-0.12	831.50	166300	DFT-s-OFDM	0.0	25.0	24.30	50	28	Left	25	0.024	1.175	0.028	0.089		40.4		
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 10-38
NR Band n26 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]	
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	18.4	17.71	1	53	Back	0	0.398	1.172	0.466		21.7	20.7	17.4	
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	18.4	17.75	50	28	Back	0	0.410	1.161	0.476		21.6			
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	18.4	17.71	1	53	Top	0	0.255	1.172	0.299		23.6			
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	18.4	17.75	50	28	Top	0	0.262	1.161	0.304		23.5			
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	18.4	17.71	1	53	Bottom	0	0.019	1.172	0.019		25.6			
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	18.4	17.75	50	28	Bottom	0	0.010	1.161	0.012		37.7			
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	-0.19	831.50	166300	DFT-s-OFDM	0.0	18.4	17.71	1	53	Right	0	0.002	1.172	0.002		44.6			
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	18.4	17.75	50	28	Right	0	0.002	1.161	0.002		44.7			
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	-0.14	831.50	166300	DFT-s-OFDM	0.0	18.4	17.71	1	53	Left	0	0.495	1.172	0.580		20.7			
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	18.4	17.75	50	28	Left	0	0.500	1.161	0.581	A38	20.7			
Body	NR Band n26	20	QPSK	4	Keyboard	7CF82	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	18.4	17.75	50	28	Left	0	0.396	1.161	0.460		21.7			
Body	NR Band n26	20	QPSK	4	N/A	7CF82	1:1	-0.08	831.50	166300	CP-OFDM	0.0	18.4	17.57	1	1	Left	0	0.480	1.211	0.581		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						

10.20 NR Band n5 Standalone SAR

Table 10-39
NR Band n5 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	NR Band n5	20	QPSK	4	Tablet	7CB82	1:1	0.03	836.50	167900	DFT-s-OFDM	0.0	25.0	24.12	1	1	Back	25	0.087	1.225	0.107	0.337		34.7	33.1	30.0
Body	NR Band n5	20	QPSK	4	Tablet	7CB82	1:1	0.02	836.50	167900	DFT-s-OFDM	0.0	25.0	24.25	50	28	Back	25	0.138	1.189	0.152	0.481	A39	34.1		
Body	NR Band n5	20	QPSK	4	Tablet	7CD12	1:1	-0.02	836.50	167900	CP-OFDM	1.5	23.5	22.65	1	1	Back	25	0.065	1.216	0.079	0.353		34.5		
Body	NR Band n5	20	QPSK	4	Tablet	7CB82	1:1	0.09	836.50	167900	DFT-s-OFDM	0.0	25.0	24.12	1	1	Top	25	0.080	1.225	0.098	0.330		35.0		
Body	NR Band n5	20	QPSK	4	Tablet	7CB82	1:1	-0.04	836.50	167900	DFT-s-OFDM	0.0	25.0	24.25	50	28	Top	25	0.107	1.189	0.127	0.402		33.9		
Body	NR Band n5	20	QPSK	4	Laptop	7CB82	1:1	0.06	836.50	167900	DFT-s-OFDM	0.0	25.0	24.12	1	1	Bottom	0	0.025	1.225	0.043	0.136		38.6		
Body	NR Band n5	20	QPSK	4	Laptop	7CB82	1:1	0.11	836.50	167900	DFT-s-OFDM	0.0	25.0	24.25	50	28	Bottom	0	0.069	1.189	0.098	0.184		37.3		
Body	NR Band n5	20	QPSK	4	Tablet	7CD12	1:1	0.02	836.50	167900	DFT-s-OFDM	0.0	25.0	24.12	1	1	Right	25	0.005	1.225	0.006	0.019		47.1		
Body	NR Band n5	20	QPSK	4	Tablet	7CD12	1:1	0.03	836.50	167900	DFT-s-OFDM	0.0	25.0	24.25	50	28	Right	25	0.003	1.189	0.004	0.011		49.4		
Body	NR Band n5	20	QPSK	4	Tablet	7CD12	1:1	-0.01	836.50	167900	DFT-s-OFDM	0.0	25.0	24.12	1	1	Left	25	0.045	1.225	0.055	0.174		37.5		
Body	NR Band n5	20	QPSK	4	Tablet	7CD12	1:1	-0.02	836.50	167900	DFT-s-OFDM	0.0	25.0	24.25	50	28	Left	25	0.057	1.189	0.068	0.214		36.6		
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 10-40
NR Band n5 Tablet**

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	-0.03	836.50	16300	DFT-s-OFDM	0.0	18.4	17.28	1	1	Back	0	0.105	1.294	0.136		27.0	18.3	17.4
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	-0.01	836.50	16300	DFT-s-OFDM	0.0	18.4	17.25	50	0	Back	0	0.115	1.303	0.150		26.6		
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	-0.02	836.50	16300	DFT-s-OFDM	0.0	18.4	17.28	1	1	Top	0	0.258	1.294	0.324		23.1		
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	0.01	836.50	16300	DFT-s-OFDM	0.0	18.4	17.25	50	0	Top	0	0.243	1.303	0.317		23.3		
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	-0.15	836.50	16300	DFT-s-OFDM	0.0	18.4	17.28	1	1	Bottom	0	0.016	1.294	0.021		35.2		
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	0.09	836.50	16300	DFT-s-OFDM	0.0	18.4	17.25	50	0	Bottom	0	0.020	1.303	0.026		34.2		
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	0.04	836.50	16300	DFT-s-OFDM	0.0	18.4	17.28	1	1	Right	0	0.001	1.294	0.001		47.2		
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	-0.03	836.50	16300	DFT-s-OFDM	0.0	18.4	17.25	50	0	Right	0	0.002	1.303	0.003		44.2		
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	0.03	836.50	16300	DFT-s-OFDM	0.0	18.4	17.28	1	1	Left	0	0.756	1.294	0.978		18.4		
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	-0.04	836.50	16300	DFT-s-OFDM	0.0	18.4	17.25	50	0	Left	0	0.737	1.303	0.960		18.5		
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	0.06	836.50	16300	DFT-s-OFDM	0.0	18.4	17.27	100	0	Left	0	0.768	1.312	1.008	A40	18.3		
Body	NR Band n5	20	QPSK	4	Keyboard	7CF82	1:1	-0.04	836.50	16300	DFT-s-OFDM	0.0	18.4	17.22	100	0	Left	0	0.606	1.312	0.795		19.3		
Body	NR Band n5	20	QPSK	4	N/A	7CF82	1:1	-0.03	836.50	16300	CP-OFDM	0.0	18.4	17.17	1	1	Left	0	0.745	1.327	0.989		18.4		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																			Body						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

10.21 NR Band n66 Standalone SAR

**Table 10-41
NR Band n66 Laptop and Tablet - No Motion**

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]		
Body	NR Band n66	40	QPSK	1	Tablet	37CBR	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.43	1	214	Back	25	0.177	1.140	0.202	0.473		31.9	28.7	28.7		
Body	NR Band n66	40	QPSK	1	Tablet	37CBR	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.49	108	54	Back	25	0.183	1.125	0.206	0.482		31.8				
Body	NR Band n66	40	QPSK	1	Laptop	37CBR	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.43	1	214	Top	25	0.255	1.140	0.291	0.682		30.3				
Body	NR Band n66	40	QPSK	1	Tablet	37CBR	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.49	108	54	Top	25	0.379	1.125	0.426	0.999	A41	28.7				
Body	NR Band n66	40	QPSK	1	Tablet	37CBR	1:1	0.07	1745.00	349000	CP-OFDM	1.5	23.5	22.80	1	1	Top	25	0.079	1.175	0.093	0.307		33.8				
Body	NR Band n66	40	QPSK	1	Laptop	37CBR	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.43	1	214	Bottom	0	0.041	1.140	0.047	0.110		38.1				
Body	NR Band n66	40	QPSK	1	Laptop	37CBR	1:1	-0.17	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.49	108	54	Bottom	0	0.066	1.125	0.052	0.121		37.8				
Body	NR Band n66	40	QPSK	1	Tablet	37CBR	1:1	-0.14	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.43	1	214	Right	25	0.196	1.140	0.223	0.524		31.5				
Body	NR Band n66	40	QPSK	1	Tablet	37CBR	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.49	108	54	Right	25	0.207	1.125	0.233	0.546		31.3				
Body	NR Band n66	40	QPSK	1	Tablet	37CBR	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.43	1	214	Left	25	0.014	1.140	0.016	0.037		42.9				
Body	NR Band n66	40	QPSK	1	Tablet	37CBR	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.49	108	54	Left	25	0.032	1.125	0.034	0.032		43.6				
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																			Body									
Spatial Peak																			1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																			averaged over 1 gram									
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]			Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	NR Band n66	40	QPSK	4	Tablet	38448	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.88	1	108	Back	25	0.133	1.028	0.137	0.432		33.6			32.9	30.0
Body	NR Band n66	40	QPSK	4	Tablet	38448	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.74	108	54	Back	25	0.105	1.062	0.112	0.352		34.5				
Body	NR Band n66	40	QPSK	4	Tablet	38448	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.88	1	108	Top	25	0.154	1.028	0.158	0.505		33.0				
Body	NR Band n66	40	QPSK	4	Tablet	38448	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.74	108	54	Top	25	0.152	1.062	0.163	0.510		32.3				
Body	NR Band n66	40	QPSK	4	Tablet	38448	1:1	-0.04	1745.00	349000	CP-OFDM	1.5	23.5	22.90	1	1	Top	25	0.085	1.148	0.088	0.436		33.6				
Body	NR Band n66	40	QPSK	4	Laptop	38448	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.88	1	108	Bottom	0	0.016	1.028	0.016	0.052		42.8				
Body	NR Band n66	40	QPSK	4	Laptop	38448	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.74	108	54	Bottom	0	0.009	1.062	0.010	0.030		45.1				
Body	NR Band n66	40	QPSK	4	Tablet	38448	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.88	1	108	Right	25	0.006	1.028	0.006	0.020		47.0				
Body	NR Band n66	40	QPSK	4	Tablet	38448	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.74	108	54	Right	25	0.004	1.062	0.004	0.013		48.7				
Body	NR Band n66	40	QPSK	4	Tablet	38448	1:1	0.10	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.88	1	108	Left	25	0.002	1.028	0.004	0.267		35.7				
Body	NR Band n66	40	QPSK	4	Tablet	38448	1:1	-0.10	1745.00	349000	DFT-s-OFDM	0.0	25.0	24.74	108	54	Left	25	0.056	1.062	0.059	0.188		37.2				
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																			Body									
Spatial Peak																			1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																			averaged over 1 gram									

**Table 10-42
NR Band n66 Tablet**

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]
Body	NR Band n66	40	QPSK	1	N/A	37CDB	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	13.6	13.11	1	108	Back	0	0.306	1.119	0.342		18.2	14.6	12.6
Body	NR Band n66	40	QPSK	1	N/A	37CDB	1:1	0.13	1745.00	349000	DFT-s-OFDM	0.0	13.6	13.13	108	54	Back	0	0.274	1.114	0.305		18.7		
Body	NR Band n66	40	QPSK	1	N/A	37CFB	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	13.6	13.11	1	108	Top	0	0.699	1.119	0.782		14.6		
Body	NR Band n66	40	QPSK	1	N/A	37CFB	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	13.6	13.13	108	54	Top	0	0.665	1.114	0.741		14.9		
Body	NR Band n66	40	QPSK	1	Keyboard	37CFB	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	13.6	13.13	108	54	Top	0	0.592	1.114	0.659		15.4		
Body	NR Band n66	40	QPSK	1	N/A	37CFB	1:1	0.14	1745.00	349000	CP-OFDM	0.0	13.6	12.96	1	1	Top	0	0.556	1.159	0.644		15.5		
Body	NR Band n66	40	QPSK	1	N/A	7CD82	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	13.6	13.11	1	108	Bottom	0	0.006	1.119	0.007		35.3		
Body	NR Band n66	40	QPSK	1	N/A	7CD82	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	13.6	13.13	108	54	Bottom	0	0.006	1.114	0.007		35.3		
Body	NR Band n66	40	QPSK	1	N/A	7CD82	1:1	-0.08	1745.00	349000	DFT-s-OFDM	0.0	13.6	13.11	1	108	Right								

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n66	40	QPSK	4	N/A	LSN1P	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	1	108	Back	0	0.307	1.057	0.324		20.5		
Body	NR Band n66	40	QPSK	4	N/A	LSN1P	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	108	54	Back	0	0.331	1.057	0.350		20.2		
Body	NR Band n66	40	QPSK	4	N/A	LSN1P	1:1	-0.12	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	1	108	Top	0	0.972	1.057	1.027		15.5		
Body	NR Band n66	40	QPSK	4	N/A	LSN1P	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	108	54	Top	0	1.120	1.057	1.184	A42	14.9		
Body	NR Band n66	40	QPSK	4	Keyboard	7CDB2	1:1	-0.08	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	108	54	Top	0	1.090	1.057	1.152		15.0		
Body	NR Band n66	40	QPSK	4	N/A	LSN1P	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	108	54	Top	0	0.909	1.057	1.152		15.0		
Body	NR Band n66	40	QPSK	4	N/A	LSN1P	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.33	216	0	Top	0	0.797	1.089	0.857		16.3		
Body	NR Band n66	40	QPSK	4	N/A	LSN1P	1:1	-0.05	1745.00	349000	CP-OFDM	0.0	15.7	15.09	1	1	Top	0	1.010	1.151	1.163		15.0		
Body	NR Band n66	40	QPSK	4	N/A	7CDB2	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	1	108	Bottom	0	0.003	1.057	0.003		40.6		
Body	NR Band n66	40	QPSK	4	N/A	7CDB2	1:1	0.05	1745.00	349000	CP-OFDM	0.0	15.7	15.46	108	54	Bottom	0	0.003	1.057	0.003		40.6		
Body	NR Band n66	40	QPSK	4	N/A	7CDB2	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	1	108	Right	0	0.006	1.057	0.006		37.6		
Body	NR Band n66	40	QPSK	4	N/A	7CDB2	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	108	54	Right	0	0.006	1.057	0.006		37.6		
Body	NR Band n66	40	QPSK	4	N/A	7CDB2	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	1	108	Left	0	0.008	1.057	0.104		25.5		
Body	NR Band n66	40	QPSK	4	N/A	7CDB2	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	15.7	15.46	108	54	Left	0	0.115	1.057	0.122		24.8		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																				Body					
Spatial Peak																				1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																				averaged over 1 gram					

Note: Blue entry represents variability measurement

10.22 NR Band n25 Standalone SAR

Table 10-43 NR Band n25 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n25	40	QPSK	1	Tablet	B44R2	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.36	1	214	Back	25	0.363	1.159	0.421	0.986	A43	28.7		
Body	NR Band n25	40	QPSK	1	Tablet	B44R2	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.58	108	54	Back	25	0.361	1.102	0.398	0.932		29.0		
Body	NR Band n25	40	QPSK	1	Tablet	B44R2	1:1	0.00	1882.50	376500	CP-OFDM	1.5	23.5	22.98	1	1	Back	25	0.087	1.127	0.098	0.325		33.5		
Body	NR Band n25	40	QPSK	1	Tablet	B44R2	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.36	1	214	Top	25	0.210	1.159	0.243	0.570		31.1		
Body	NR Band n25	40	QPSK	1	Tablet	B44R2	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.58	108	54	Top	25	0.196	1.102	0.216	0.506		31.6		
Body	NR Band n25	40	QPSK	1	Laptop	B44R2	1:1	-0.15	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.36	1	214	Bottom	0	0.028	1.159	0.032	0.076		39.8		
Body	NR Band n25	40	QPSK	1	Laptop	B44R2	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.58	108	54	Bottom	0	0.026	1.102	0.029	0.067		40.4		
Body	NR Band n25	40	QPSK	1	Tablet	B44R2	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.36	1	214	Right	25	0.095	1.159	0.110	0.258		34.5		
Body	NR Band n25	40	QPSK	1	Tablet	B44R2	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.58	108	54	Right	25	0.121	1.102	0.133	0.312		33.7		
Body	NR Band n25	40	QPSK	1	Tablet	B44R2	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.36	1	214	Left	25	0.014	1.159	0.016	0.038		42.8		
Body	NR Band n25	40	QPSK	1	Tablet	B44R2	1:1	0.12	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.58	108	54	Left	25	0.016	1.102	0.018	0.041		42.5		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																				Body						
Spatial Peak																				1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																				averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n25	40	QPSK	4	Tablet	B44T2	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.79	1	214	Back	25	0.136	1.050	0.143	0.451		33.4		
Body	NR Band n25	40	QPSK	4	Tablet	B44T2	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.64	108	54	Back	25	0.125	1.086	0.136	0.430		33.6		
Body	NR Band n25	40	QPSK	4	Tablet	B44T2	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.79	1	214	Top	25	0.205	1.050	0.215	0.680		31.6		
Body	NR Band n25	40	QPSK	4	Tablet	B44T2	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.64	108	54	Top	25	0.202	1.086	0.219	0.694		31.5		
Body	NR Band n25	40	QPSK	4	Tablet	B44T2	1:1	-0.16	1882.50	376500	CP-OFDM	1.5	23.5	23.25	1	1	Top	25	0.136	1.059	0.144	0.644		31.0		
Body	NR Band n25	40	QPSK	4	Laptop	B44T2	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.79	1	214	Bottom	0	0.020	1.050	0.021	0.055		41.7		
Body	NR Band n25	40	QPSK	4	Laptop	B44T2	1:1	-0.12	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.64	108	54	Bottom	0	0.016	1.086	0.017	0.055		42.5		
Body	NR Band n25	40	QPSK	4	Tablet	B44T2	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.79	1	214	Right	25	0.011	1.050	0.012	0.037		44.3		
Body	NR Band n25	40	QPSK	4	Tablet	B44T2	1:1	0.17	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.64	108	54	Right	25	0.028	1.086	0.029	0.027		45.6		
Body	NR Band n25	40	QPSK	4	Tablet	B44T2	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.79	1	214	Left	25	0.072	1.050	0.076	0.239		36.2		
Body	NR Band n25	40	QPSK	4	Tablet	B44T2	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.0	24.64	108	54	Left	25	0.071	1.086	0.077	0.244		36.1		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																				Body						
Spatial Peak																				1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																				averaged over 1 gram						

Table 10-44 NR Band n25 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n25	40	QPSK	1	N/A	7CDG2	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.73	1	214	Back	0	0.417	1.140	0.475		15.5			
Body	NR Band n25	40	QPSK	1	N/A	7CDG2	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.79	108	0	Back	0	0.412	1.125	0.464		15.6			
Body	NR Band n25	40	QPSK	1	N/A	7CDG2	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.73	1	214	Top	0	0.639	1.140	0.722		13.7			
Body	NR Band n25	40	QPSK	1	Keyboard	7CDB2	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.73	1	214	Top	0	0.641	1.140	0.731		13.6			
Body	NR Band n25	40	QPSK	1	N/A	7CDB2	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.79	108	0	Top	0	0.629	1.125	0.708		13.8			
Body	NR Band n25	40	QPSK	1	N/A	7CDB2	1:1	0.01	1882.50	376500	CP-OFDM	0.0	12.3	11.64	1	1	Top	0	0.627	1.164	0.730		13.6			
Body	NR Band n25	40	QPSK	1	N/A	7CDB2	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.73	1	214	Bottom	0	0.000	1.140	0.000		51.7			
Body	NR Band n25	40	QPSK	1	N/A	7CDB2	1:1	0.09	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.79	108	0	Bottom	0	0.000	1.125	0.000		51.7			
Body	NR Band n25	40	QPSK	1	N/A	7CDG2	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.73	1	214	Right	0	0.044	1.140	0.050		25.2			
Body	NR Band n25	40	QPSK	1	N/A	7CDB2	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.79	108	0	Right	0	0.053	1.125	0.060		24.5			
Body	NR Band n25	40	QPSK	1	N/A	7CDB2	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.73	1	214	Left	0	0.006	1.140	0.007		33.9			
Body	NR Band n25	40	QPSK	1	N/A	7CDB2	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	12.3	11.79	108	0	Left	0	0.005	1.125	0.006		34.8			
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																				Body						
Spatial Peak																				1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																				averaged over 1 gram						

10.23 NR Band n30 Standalone SAR

Table 10-45 NR Band n30 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n30	10	QPSK	1	Tablet	7CCK2	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	23.0	22.41	1	1	Back	25	0.092	1.146	0.105	0.429		32.7		
Body	NR Band n30	10	QPSK	1	Tablet	7CCK2	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	23.0	22.27	25	14	Back	25	0.092	1.183	0.109	0.443		32.6		
Body	NR Band n30	10	QPSK	1	Tablet	7CCK2	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	23.0	22.41	1	1	Top	25	0.136	1.146	0.225	0.915		29.4		
Body	NR Band n30	10	QPSK	1	Tablet	7CCK2	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	23.0	22.27	25	14	Top	25	0.206	1.183	0.244	0.993	A-45	29.1		
Body	NR Band n30	10	QPSK	1	Tablet	7CCK2	1:1	0.01	2310.00	462000	CP-OFDM	1.5	21.5	20.70	1	1	Top	25	0.137	1.202	0.165	0.948		29.3		
Body	NR Band n30	10	QPSK	1	Laptop	3B44R	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	23.0	22.41	1	1	Bottom	0	0.001	1.146	0.001	0.005		52.4	29.1	29.1
Body	NR Band n30	10	QPSK	1	Laptop	3B44R	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	23.0	22.27	25	14	Bottom	0	0.001	1.183	0.001	0.005		52.2		
Body	NR Band n30	10	QPSK	1	Tablet	7CCK2	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	23.0	22.41	1	1	Right	25	0.056	1.146	0.064	0.261		34.9		
Body	NR Band n30	10	QPSK	1	Tablet	7CCK2	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	23.0	22.27	25	14	Right	25	0.060	1.183	0.071	0.289		34.4		
Body	NR Band n30	10	QPSK	1	Tablet	7CCK2	1:1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	23.0	22.41	1	1	Left	25	0.024	1.146	0.028	0.112		38.6		
Body	NR Band n30	10	QPSK	1	Tablet	7CCK2	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	23.0	22.27	25	14	Left	25	0.025	1.183	0.030	0.120		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																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n30	10	QPSK	4	Tablet	7CCK2	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	24.0	23.78	1	50	Back	25	0.075	1.052	0.079	0.314		35.0		
Body	NR Band n30	10	QPSK	4	Tablet	7CCK2	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	24.0	23.61	25	14	Back	25	0.065	1.094	0.071	0.283		35.0		
Body	NR Band n30	10	QPSK	4	Tablet	7CCK2	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	24.0	23.78	1	50	Top	25	0.136	1.052	0.143	0.570		32.4		
Body	NR Band n30	10	QPSK	4	Tablet	7CCK2	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	24.0	23.61	25	14	Top	25	0.127	1.094	0.139	0.553		32.5		
Body	NR Band n30	10	QPSK	4	Tablet	7CCK2	1:1	0.02	2310.00	462000	CP-OFDM	1.5	22.5	22.36	1	1	Top	25	0.085	1.033	0.088	0.484		33.0		
Body	NR Band n30	10	QPSK	4	Laptop	7CCK2	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	24.0	23.78	1	50	Bottom	0	0.002	1.052	0.001	0.004		53.7	32.4	30.0
Body	NR Band n30	10	QPSK	4	Laptop	7CCK2	1:1	0.13	2310.00	462000	DFT-s-OFDM	0.0	24.0	23.61	25	14	Bottom	0	0.002	1.094	0.002	0.009		50.5		
Body	NR Band n30	10	QPSK	4	Tablet	7CCK2	1:1	-0.17	2310.00	462000	DFT-s-OFDM	0.0	24.0	23.78	1	50	Right	25	0.015	1.052	0.016	0.063		42.0		
Body	NR Band n30	10	QPSK	4	Tablet	7CCK2	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	24.0	23.61	25	14	Right	25	0.017	1.094	0.019	0.074		41.3		
Body	NR Band n30	10	QPSK	4	Tablet	7CCK2	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	24.0	23.78	1	50	Left	25	0.030	1.052	0.032	0.126		39.0		
Body	NR Band n30	10	QPSK	4	Tablet	7CCK2	1:1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	24.0	23.61	25	14	Left	25	0.030	1.094	0.033	0.131		38.8		
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 10-46 NR Band n30 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n30	10	QPSK	1	N/A	37CFB	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.99	1	1	Back	0	0.439	1.352	0.594		14.1			
Body	NR Band n30	10	QPSK	1	N/A	37CFB	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.55	25	14	Back	0	0.446	1.365	0.609		14.0			
Body	NR Band n30	10	QPSK	1	N/A	37CFB	1:1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.99	1	1	Top	0	0.276	1.352	1.049		A45	11.6		
Body	NR Band n30	10	QPSK	1	N/A	37CFB	1:1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.55	25	14	Top	0	0.251	1.365	1.025			11.7		
Body	NR Band n30	10	QPSK	1	N/A	37CFB	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.55	50	0	Top	0	0.270	1.371	1.056			11.5		
Body	NR Band n30	10	QPSK	1	Keyboard	7CCY2	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.53	50	0	Top	0	0.242	1.371	1.017			11.8		
Body	NR Band n30	10	QPSK	1	N/A	37CFB	1:1	0.00	2310.00	462000	CP-OFDM	0.0	11.9	10.56	1	1	Top	0	0.259	1.361	1.033			11.7	11.6	10.9
Body	NR Band n30	10	QPSK	1	N/A	7CDG2	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.59	1	1	Bottom	0	0.012	1.352	0.016			29.7		
Body	NR Band n30	10	QPSK	1	N/A	7CDG2	1:1	-0.12	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.55	25	14	Bottom	0	0.017	1.365	0.023			28.2		
Body	NR Band n30	10	QPSK	1	N/A	7CDG2	1:1	-0.19	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.59	1	1	Right	0	0.035	1.352	0.047			25.1		
Body	NR Band n30	10	QPSK	1	N/A	7CDG2	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.55	25	14	Right	0	0.034	1.365	0.046			25.2		
Body	NR Band n30	10	QPSK	1	N/A	7CDG2	1:1	-0.17	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.59	1	1	Left	0	0.006	1.352	0.008			32.8		
Body	NR Band n30	10	QPSK	1	N/A	7CDG2	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	11.9	10.55	25	14	Left	0	0.012	1.365	0.016			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																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n30	10	QPSK	4	N/A	7CFB2	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	12.3	12.09	1	50	Back	0	0.228	1.050	0.239			18.5		
Body	NR Band n30	10	QPSK	4	N/A	7CFB2	1:1	0.11	2310.00	462000	DFT-s-OFDM	0.0	12.3	12.03	25	14	Back	0	0.220	1.064	0.234			18.6		
Body	NR Band n30	10	QPSK	4	N/A	7CFB2	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	12.3	12.03	25	14	Top	0	0.206	1.050	0.211			13.6		
Body	NR Band n30	10	QPSK	4	N/A	7CFB2	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	12.3	12.03	25	14	Top	0	0.211	1.064	0.257			13.3		
Body	NR Band n30	10	QPSK	4	Keyboard	7CCY2	1:1	0.02	2310.00	462000	CP-OFDM	0.0	12.3	12.09	1	1	Top	0	0.241	1.050	0.278			13.5		
Body	NR Band n30	10	QPSK	4	N/A	7CCY2	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	12.3	12.09	1	50	Bottom	0	0.000	1.050	0.000			52.0	13.3	11.3
Body	NR Band n30	10	QPSK	4	N/A	7CCY2	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	12.3	12.03	25	14	Bottom	0	0.000	1.064	0.000			52.0		
Body	NR Band n30	10	QPSK	4	N/A	7CCY2	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	12.3	12.09	1	50	Right	0	0.010	1.050	0.011			23.0		

10.24 NR Band n41 Standalone SAR

Table 10-47 NR Band n41 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n41	100	QPSK	1	Tablet	B44G2	1:1	-0.12	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.28	1	1	Back	25	0.180	1.180	0.212	0.293				
Body	NR Band n41	100	QPSK	1	Tablet	B44G2	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.29	135	69	Back	25	0.144	1.178	0.170	0.234				
Body	NR Band n41	100	QPSK	1	Tablet	B44G2	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.28	1	1	Top	25	0.551	1.180	0.650	0.898	A47			
Body	NR Band n41	100	QPSK	1	Tablet	B44G2	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.29	135	69	Top	25	0.520	1.178	0.613	0.846				
Body	NR Band n41	100	QPSK	1	Tablet	B44G2	1:1	-0.06	2592.99	518598	DFT-s-OFDM	1.0	24.0	23.26	270	0	Top	25	0.349	1.186	0.414	0.719				
Body	NR Band n41	100	QPSK	1	Tablet	B44G2	1:1	-0.07	2592.99	518598	CP-OFDM	1.5	23.5	22.90	1	1	Top	25	0.319	1.148	0.366	0.714				
Body	NR Band n41	100	QPSK	1	Laptop	B44G2	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.28	1	1	Bottom	0	0.030	1.180	0.035	0.049				
Body	NR Band n41	100	QPSK	1	Laptop	B44G2	1:1	-0.08	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.29	135	69	Bottom	0	0.030	1.178	0.035	0.049				
Body	NR Band n41	100	QPSK	1	Tablet	B44D2	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.28	1	1	Right	25	0.032	1.180	0.038	0.052				
Body	NR Band n41	100	QPSK	1	Tablet	B44D2	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.29	135	69	Right	25	0.019	1.178	0.022	0.031				
Body	NR Band n41	100	QPSK	1	Tablet	B44D2	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.28	1	1	Left	25	0.017	1.180	0.020	0.028				
Body	NR Band n41	100	QPSK	1	Tablet	B44D2	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.29	135	69	Left	25	0.009	1.178	0.011	0.015				
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT																				Body						
Spatial Peak																				1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																				averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n41	100	QPSK	4	Tablet	B44G2	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.19	1	137	Back	25	0.132	1.205	0.159	0.418				
Body	NR Band n41	100	QPSK	4	Tablet	B44G2	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.08	135	69	Back	25	0.127	1.236	0.157	0.413				
Body	NR Band n41	100	QPSK	4	Tablet	B44G2	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.19	1	137	Top	25	0.304	1.205	0.366	0.964				
Body	NR Band n41	100	QPSK	4	Tablet	B44G2	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.08	135	69	Top	25	0.305	1.236	0.377	0.992				
Body	NR Band n41	100	QPSK	4	Tablet	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.19	1	137	Top	25	0.132	1.216	0.221	0.522				
Body	NR Band n41	100	QPSK	4	Laptop	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.08	1	137	Bottom	0	0.022	1.205	0.027	0.070				
Body	NR Band n41	100	QPSK	4	Laptop	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.08	135	69	Bottom	0	0.021	1.236	0.026	0.068				
Body	NR Band n41	100	QPSK	4	Tablet	B44D2	1:1	-0.19	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.19	1	137	Right	25	0.047	1.205	0.057	0.149				
Body	NR Band n41	100	QPSK	4	Tablet	B44D2	1:1	0.16	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.08	135	69	Right	25	0.046	1.236	0.057	0.150				
Body	NR Band n41	100	QPSK	4	Tablet	B44D2	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.08	135	69	Left	25	0.112	1.236	0.138	0.364				
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT																				Body						
Spatial Peak																				1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																				averaged over 1 gram						

Table 10-48 NR Band n41 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.45	1	1	Back	0	0.654	1.012	0.662					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.46	135	0	Back	0	0.651	1.009	0.657					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.37	270	0	Back	0	0.614	1.030	0.632					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.45	1	1	Top	0	0.854	1.012	0.864					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.46	135	0	Top	0	0.844	1.009	0.852					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.37	270	0	Top	0	0.789	1.030	0.813					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.00	2592.99	518598	CP-OFDM	0.0	11.5	11.37	1	1	Top	0	0.862	1.030	0.888	A18				
Body	NR Band n41	100	QPSK	1	Keyboard	B44G2	1:1	0.00	2592.99	518598	CP-OFDM	0.0	11.5	11.37	1	1	Top	0	0.765	1.030	0.788					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.45	1	1	Bottom	0	0.002	1.012	0.002					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.46	135	0	Bottom	0	0.000	1.009	0.000					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.13	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.45	1	1	Right	0	0.035	1.012	0.035					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.46	135	0	Right	0	0.036	1.009	0.036					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.18	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.45	1	1	Left	0	0.016	1.012	0.016					
Body	NR Band n41	100	QPSK	1	N/A	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	11.5	11.46	135	0	Left	0	0.014	1.009	0.014					
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT																				Body						
Spatial Peak																				1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																				averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n41	100	QPSK	4	N/A	B44G2	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	12.8	11.87	1	137	Back	0	0.346	1.239	0.429					
Body	NR Band n41	100	QPSK	4	N/A	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	12.8	11.82	135	69	Back	0	0.349	1.253	0.437					
Body	NR Band n41	100	QPSK	4	N/A	B44G2	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	12.8	11.87	1	137	Top	0	0.720	1.239	0.892					
Body	NR Band n41	100	QPSK	4	N/A	B44G2	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	12.8	11.82	135	69	Top	0	0.745	1.253	0.933					
Body	NR Band n41	100	QPSK	4	N/A	B44G2	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	12.8	11.80	270	0	Top	0	0.724	1.259	0.812					
Body	NR Band n41	100	QPSK	4	N/A	B44G2	1:1	0.02	2592.99	518598	CP-OFDM	0.0	12.8	11.80	1	1	Top	0	0.960	1.259	0.957					
Body	NR Band n41	100	QPSK	4	Keyboard	B44G2	1:1	-0.04	2592.99	518598	CP-OFDM	0.0	12.8	11.80	1	1	Top	0	0.730	1.259	0.919					
Body	NR Band n41	100	QPSK	4	N/A	B44D2	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	12.8	11.87	1	137										

10.25 NR Band n48 Standalone SAR

Table 10-49 NR Band n48 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n48	40	QPSK	2	Tablet	7CBG2	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.48	1	53	Back	25	0.096	1.028	0.099	0.821		30.6		
Body	NR Band n48	40	QPSK	2	Tablet	7CBG2	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.47	50	28	Back	25	0.095	1.030	0.098	0.814		30.6		
Body	NR Band n48	40	QPSK	2	Tablet	7CDP2	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.48	1	53	Top	25	0.116	1.038	0.119	0.922		29.8		
Body	NR Band n48	40	QPSK	2	Tablet	7CDP2	1:1	0.06	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.47	50	28	Top	25	0.113	1.030	0.116	0.968		29.9		
Body	NR Band n48	40	QPSK	2	Tablet	844T2	1:1	0.03	3679.98	645332	CP-OFDM	1.5	19.1	18.95	1	1	Top	25	0.055	1.035	0.057	0.669		31.5		
Body	NR Band n48	40	QPSK	2	Laptop	7CBG2	1:1	0.09	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.48	1	53	Bottom	0	0.005	1.028	0.005	0.043		43.4		
Body	NR Band n48	40	QPSK	2	Laptop	7CBG2	1:1	0.05	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.47	50	28	Bottom	0	0.000	1.030	0.000	0.000		60.4		
Body	NR Band n48	40	QPSK	2	Tablet	7CBG2	1:1	-0.16	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.48	1	53	Right	25	0.009	1.038	0.009	0.077		42.9		
Body	NR Band n48	40	QPSK	2	Tablet	7CBG2	1:1	0.07	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.47	50	28	Right	25	0.008	1.030	0.008	0.069		41.4		
Body	NR Band n48	40	QPSK	2	Tablet	7CBG2	1:1	-0.11	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.48	1	53	Left	25	0.021	1.028	0.022	0.180		37.2		
Body	NR Band n48	40	QPSK	2	Tablet	7CBG2	1:1	0.04	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.47	50	28	Left	25	0.022	1.030	0.023	0.189		37.0		
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																										
Body 1.6 W/kg (mW/g) averaged over 1 gram																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n48	40	QPSK	3	Tablet	7CBG2	1:1	-0.05	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.23	1	53	Back	25	0.159	1.089	0.171	0.810		28.2		
Body	NR Band n48	40	QPSK	3	Tablet	7CBG2	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.58	50	28	Back	25	0.158	1.132	0.179	0.837		28.0		
Body	NR Band n48	40	QPSK	3	Tablet	7CDP2	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.23	1	53	Top	25	0.193	1.089	0.210	0.983	A49	27.3		
Body	NR Band n48	40	QPSK	3	Tablet	7CDP2	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.06	50	28	Top	25	0.188	1.132	0.213	0.996		27.3		
Body	NR Band n48	40	QPSK	3	Tablet	7CBG2	1:1	0.14	3679.98	645332	CP-OFDM	1.5	19.1	18.61	1	1	Top	25	0.112	1.139	0.125	0.828		28.1		
Body	NR Band n48	40	QPSK	3	Laptop	7CBG2	1:1	0.04	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.23	1	53	Bottom	0	0.006	1.089	0.006	0.025		43.2		
Body	NR Band n48	40	QPSK	3	Laptop	7CBG2	1:1	0.05	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.06	50	28	Bottom	0	0.007	1.132	0.008	0.037		41.6		
Body	NR Band n48	40	QPSK	3	Tablet	7CBG2	1:1	0.05	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.23	1	53	Right	25	0.003	1.089	0.003	0.015		45.4		
Body	NR Band n48	40	QPSK	3	Tablet	7CBG2	1:1	0.09	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.06	50	28	Right	25	0.002	1.132	0.002	0.011		47.0		
Body	NR Band n48	40	QPSK	3	Tablet	7CBG2	1:1	0.08	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.23	1	53	Left	25	0.004	1.089	0.004	0.020		44.2		
Body	NR Band n48	40	QPSK	3	Tablet	7CBG2	1:1	0.09	3624.99	641666	DFT-s-OFDM	0.0	20.6	20.06	50	28	Left	25	0.005	1.132	0.006	0.026		43.0		
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																										
Body 1.6 W/kg (mW/g) averaged over 1 gram																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n48	40	5	Tablet	7CDP2	1:1	0.03	3624.99	641666	CW/SRS	20.6	19.89	19.89	19.89			Back	25	0.027	1.178	0.032	0.277		35.5		
Body	NR Band n48	40	5	Tablet	7CDP2	1:1	0.05	3624.99	641666	CW/SRS	20.6	19.89	19.89	19.89			Top	25	0.005	1.178	0.006	0.051		42.9		
Body	NR Band n48	40	5	Laptop	7CDP2	1:1	-0.06	3624.99	641666	CW/SRS	20.6	19.89	19.89	19.89			Bottom	0	0.044	1.178	0.052	0.451		33.4		
Body	NR Band n48	40	5	Tablet	7CDP2	1:1	0.01	3624.99	641666	CW/SRS	20.6	19.89	19.89	19.89			Right	25	0.001	1.178	0.001	0.010		49.8		
Body	NR Band n48	40	5	Tablet	7CDP2	1:1	0.05	3624.99	641666	CW/SRS	20.6	19.89	19.89	19.89			Left	25	0.065	1.178	0.077	0.667		31.7		
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																										
Body 1.6 W/kg (mW/g) averaged over 1 gram																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	NR Band n48	40	8	Tablet	7CDP2	1:1	-0.08	3624.99	641666	CW/SRS	20.6	19.28	19.28	19.28			Back	25	0.004	1.355	0.005	0.047		43.2		
Body	NR Band n48	40	8	Tablet	7CDP2	1:1	0.01	3624.99	641666	CW/SRS	20.6	19.28	19.28	19.28			Top	25	0.000	1.355	0.000	0.000		42.9		
Body	NR Band n48	40	8	Laptop	7CDP2	1:1	0.01	3624.99	641666	CW/SRS	20.6	19.28	19.28	19.28			Bottom	0	0.000	1.355	0.000	0.000		59.2		
Body	NR Band n48	40	8	Tablet	7CDP2	1:1	0.14	3624.99	641666	CW/SRS	20.6	19.28	19.28	19.28			Right	25	0.072	1.355	0.098	0.850		30.7		
Body	NR Band n48	40	8	Tablet	7CDP2	1:1	0.06	3624.99	641666	CW/SRS	20.6	19.28	19.28	19.28			Left	25	0.000	1.355	0.000	0.000		59.2		
ANS/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 10-50
NR Band n48 Tablet**

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Pilimit [dBm]	Overall Pilimit [dBm]	EF5 Pilimit [dBm]
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	0.21	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.89	1	1	Back	0	0.344	1.002	0.345		14.5	9.9	8.9
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	0.11	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.83	50	0	Back	0	0.347	1.016	0.353		14.4		
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	9.9	9.55	1	104	Top	0	0.921	1.084	0.998		9.9		
Body	NR Band n48	40	QPSK	2	Keyboard	7CDP2	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	9.9	9.55	1	104	Top	0	0.829	1.084	0.899		10.3		
Body	NR Band n48	40	QPSK	2	N/A	B44F2	1:1	0.09	3624.99	641666	DFT-s-OFDM	0.0	9.9	9.58	1	104	Top	0	0.527	1.084	0.538		10.6		
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	9.9	9.67	1	104	Top	0	0.526	1.054	0.976		10.0		
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	-0.02	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.89	1	1	Top	0	0.958	1.002	0.960	ASO	10.0		
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.86	1	1	Top	0	0.985	1.002	0.887		10.4		
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	9.9	9.43	50	56	Top	0	0.896	1.114	0.998		9.9		
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	0.10	3624.99	641666	DFT-s-OFDM	0.0	9.9	9.69	50	56	Top	0	0.923	1.060	0.969		10.0		
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.83	50	0	Top	0	0.926	1.026	0.941		10.1		
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	0.10	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.68	100	0	Top	0	0.936	1.052	0.985		9.9		
Body	NR Band n48	40	QPSK	2	N/A	7CDP2	1:1	0.01	3679.98	645332	CP-OFDM	0.0	9.9	9.82	1	1	Top	0	0.911	1.019	0.928		10.2		
Body	NR Band n48	40	QPSK	2	N/A	7CBG2	1:1	0.08	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.89	1	1	Bottom	0	0.000	1.002	0.000		49.8		
Body	NR Band n48	40	QPSK	2	N/A	7CBG2	1:1	0.02	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.83	50	0	Bottom	0	0.000	1.016	0.000		49.8		
Body	NR Band n48	40	QPSK	2	N/A	7CBG2	1:1	0.06	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.89	1	1	Right	0	0.000	1.002	0.000		49.8		
Body	NR Band n48	40	QPSK	2	N/A	7CBG2	1:1	0.09	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.86	50	0	Right	0	0.000	1.016	0.000		49.8		
Body	NR Band n48	40	QPSK	2	N/A	7CBG2	1:1	0.07	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.89	1	1	Left	0	0.001	1.002	0.001		38.8		
Body	NR Band n48	40	QPSK	2	N/A	7CBG2	1:1	0.05	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.83	50	0	Left	0	0.000	1.016	0.000		49.8		
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																									
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Pilimit [dBm]	Overall Pilimit [dBm]	EF5 Pilimit [dBm]
Body	NR Band n48	40	QPSK	3	N/A	7CDQ2	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.86	1	104	Back	0	0.306	1.009	0.309		15.0	12.1	8.9
Body	NR Band n48	40	QPSK	3	N/A	7CDQ2	1:1	0.09	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.64	50	56	Back	0	0.310	1.062	0.329		14.7		
Body	NR Band n48	40	QPSK	3	N/A	7CDQ2	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.86	1	104	Top	0	0.574	1.009	0.579		12.2		
Body	NR Band n48	40	QPSK	3	N/A	7CDQ2	1:1	0.07	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.64	50	56	Top	0	0.547	1.062	0.581		12.2		
Body	NR Band n48	40	QPSK	3	N/A	7CDQ2	1:1	-0.02	3624.99	641666	CP-OFDM	0.0	9.9	9.63	1	1	Top	0	0.560	1.064	0.596		12.1		
Body	NR Band n48	40	QPSK	3	Keyboard	7CDQ2	1:1	0.05	3624.99	641666	CP-OFDM	0.0	9.9	9.63	1	1	Top	0	0.558	1.064	0.594		12.1		
Body	NR Band n48	40	QPSK	3	N/A	7CBG2	1:1	0.06	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.86	1	104	Bottom	0	0.000	1.009	0.000		49.8		
Body	NR Band n48	40	QPSK	3	N/A	7CBG2	1:1	0.07	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.64	50	56	Bottom	0	0.000	1.062	0.000		49.8		
Body	NR Band n48	40	QPSK	3	N/A	7CBG2	1:1	0.01	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.86	1	104	Right	0	0.000	1.009	0.000		49.8		
Body	NR Band n48	40	QPSK	3	N/A	7CBG2	1:1	0.02	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.64	50	56	Right	0	0.000	1.062	0.000		49.8		
Body	NR Band n48	40	QPSK	3	N/A	7CBG2	1:1	-0.18	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.86	1	104	Left	0	0.019	1.009	0.019		27.0		
Body	NR Band n48	40	QPSK	3	N/A	7CBG2	1:1	-0.21	3679.98	645332	DFT-s-OFDM	0.0	9.9	9.64	50	56	Left	0	0.020	1.062	0.021		26.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Pilimit [dBm]	Overall Pilimit [dBm]	EF5 Pilimit [dBm]			
Body	NR Band n48	40	5	N/A	B44G2	1:1	-0.03	3624.99	641666	CW/SRS	2.0	0.87		Back	0	0.010	1.297	0.013		20.8	13.7	1.0			
Body	NR Band n48	40	5	N/A	7CBG2	1:1	0.04	3624.99	641666	CW/SRS	2.0	0.87		Top	0	0.000	1.297	0.000		40.8					
Body	NR Band n48	40	5	N/A	7CBG2	1:1	0.03	3624.99	641666	CW/SRS	2.0	0.87		Bottom	0	0.000	1.297	0.000		40.8					
Body	NR Band n48	40	5	N/A	7CBG2	1:1	0.04	3624.99	641666	CW/SRS	2.0	0.87		Right	0	0.000	1.297	0.000		40.8					
Body	NR Band n48	40	5	N/A	B44G2	1:1	0.08	3624.99	641666	CW/SRS	2.0	0.87		Left	0	0.052	1.297	0.067		13.7					
Body	NR Band n48	40	5	Keyboard	7CBG2	1:1	0.03	3624.99	641666	CW/SRS	2.0	0.87		Left	0	0.026	1.297	0.034		16.7					
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Pilimit [dBm]	Overall Pilimit [dBm]	EF5 Pilimit [dBm]			
Body	NR Band n48	40	8	N/A	B44F2	1:1	0.13	3624.99	641666	CW/SRS	-0.5	-1.21		Back	0	0.013	1.178	0.015		17.6	12.8	-1.5			
Body	NR Band n48	40	8	N/A	7CBG2	1:1	0.09	3624.99	641666	CW/SRS	-0.5	-1.21		Top	0	0.000	1.178	0.000		38.7					
Body	NR Band n48	40	8	N/A	7CBG2	1:1	0.03	3624.99	641666	CW/SRS	-0.5	-1.21		Bottom	0	0.004	1.178	0.005		22.8					
Body	NR Band n48	40	8	N/A	B44F2	1:1	-0.03	3624.99	641666	CW/SRS	-0.5	-1.21		Right	0	0.039	1.178	0.046		12.7					
Body	NR Band n48	40	8	Keyboard	7CBG2	1:1	0.05	3624.99	641666	CW/SRS	-0.5	-1.21		Right	0	0.016	1.178	0.019		16.7					
Body	NR Band n48	40	8	N/A	7CBG2	1:1	0.05	3624.99	641666	CW/SRS	-0.5	-1.21		Left	0	0.000	1.178	0.000		38.7					
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Body 1.6 W/kg (mW/g) averaged over 1 gram						

10.26 NR Band n77 Standalone SAR

Table 10-51 NR Band n77 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFSPlimit [dBm]
Body	NR Band n77 DoD	100	QPSK	2	Tablet	7CY2	1:1	0.00	3500.01	63334	DFT-s-OFDM	0.0	25.0	24.42	1	1	Back	25	0.250	1.143	0.286	0.286			30.4	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	25.0	24.72	1	1	Back	25	0.420	1.067	0.448	0.448			28.4	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	25.0	24.75	1	1	Back	25	1.010	1.059	1.070	1.070			24.7	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	25.0	24.49	135	69	Back	25	0.541	1.125	0.609	0.609			27.1	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	-0.07	3930.00	662000	DFT-s-OFDM	0.0	25.0	24.59	135	69	Back	25	1.060	1.099	1.165	1.165	A51		24.3	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	25.0	24.59	135	69	Back	25	1.060	1.099	1.165	1.165			24.3	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	25.0	24.54	270	0	Back	25	0.550	1.112	0.612	0.612			27.1	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.01	3930.00	662000	CP-OFDM	0.0	25.0	24.88	1	1	Back	25	1.030	1.028	1.059	1.059			24.7	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	25.0	24.72	1	1	Top	25	0.344	1.067	0.367	0.367			29.3	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	25.0	24.75	1	1	Top	25	0.624	1.069	0.661	0.661			26.7	24.3
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	25.0	24.49	135	69	Top	25	0.388	1.125	0.437	0.437			28.6	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	25.0	24.59	135	69	Top	25	0.655	1.099	0.720	0.720			26.4	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	25.0	24.54	270	0	Top	25	0.391	1.112	0.435	0.435			28.6	
Body	NR Band n77	100	QPSK	2	Laptop	7CY2	1:1	0.06	3930.00	662000	DFT-s-OFDM	0.0	25.0	24.75	1	1	Bottom	0	0.042	1.059	0.044	0.044			38.5	
Body	NR Band n77	100	QPSK	2	Laptop	7CY2	1:1	0.07	3930.00	662000	DFT-s-OFDM	0.0	25.0	24.59	135	69	Bottom	0	0.054	1.099	0.059	0.059			37.2	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	25.0	24.75	1	1	Right	25	0.012	1.099	0.013	0.013			43.9	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.09	3930.00	662000	DFT-s-OFDM	0.0	25.0	24.59	135	69	Right	25	0.007	1.099	0.008	0.008			46.1	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	-0.12	3930.00	662000	DFT-s-OFDM	0.0	25.0	24.75	1	1	Left	25	0.040	1.059	0.044	0.044			36.9	
Body	NR Band n77	100	QPSK	2	Tablet	7CY2	1:1	0.15	3930.00	662000	DFT-s-OFDM	0.0	25.0	24.59	135	69	Left	25	0.080	1.099	0.088	0.088			35.5	
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																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFSPlimit [dBm]
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	26.5	26.06	1	137	Back	25	0.579	1.107	0.641	0.687			28.4	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	26.5	25.84	1	137	Back	25	0.476	1.164	0.554	0.594			29.0	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	26.5	26.05	135	69	Back	25	0.550	1.109	0.610	0.654			28.6	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.02	3930.00	662000	DFT-s-OFDM	1.0	26.5	25.86	135	69	Back	25	0.477	1.159	0.553	0.592			29.0	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	-0.02	3750.00	650000	DFT-s-OFDM	1.0	25.5	25.01	270	0	Back	25	0.502	1.119	0.562	0.758			28.0	
Body	NR Band n77 DoD	100	QPSK	3	Tablet	7CY2	1:1	0.01	3500.01	63334	DFT-s-OFDM	0.0	26.5	25.80	1	271	Top	25	0.792	1.175	0.931	0.997			27.7	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	26.5	26.06	1	137	Top	25	0.683	1.107	0.756	0.820			27.7	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	26.5	25.84	1	137	Top	25	0.318	1.164	0.370	0.397			30.8	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	26.5	26.05	135	69	Top	25	0.665	1.109	0.737	0.791			27.8	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	-0.02	3930.00	662000	DFT-s-OFDM	1.0	26.5	25.86	135	69	Top	25	0.316	1.159	0.366	0.392			30.8	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.02	3750.00	650000	DFT-s-OFDM	1.0	25.5	25.01	270	0	Top	25	0.601	1.119	0.673	0.908			27.2	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	26.5	26.06	1	137	Bottom	0	0.027	1.107	0.030	0.032			41.7	
Body	NR Band n77	100	QPSK	3	Laptop	7CY2	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	26.5	26.05	135	69	Bottom	0	0.028	1.109	0.031	0.033			41.5	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	26.5	26.06	1	137	Right	25	0.024	1.107	0.027	0.028			42.2	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	26.5	26.05	135	69	Right	25	0.027	1.109	0.030	0.032			41.7	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.10	3750.00	650000	DFT-s-OFDM	0.0	26.5	26.06	1	137	Left	25	0.058	1.107	0.064	0.069			38.4	
Body	NR Band n77	100	QPSK	3	Tablet	7CY2	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	26.5	26.05	135	69	Left	25	0.057	1.109	0.063	0.068			38.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																				Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFSPlimit [dBm]
Body	NR Band n77	100	5	Tablet	7CGB2	1:1	0.04	3750.00	650000	CW/SRS	25.0	24.76	Back	25	0.069	1.057	0.073	0.231						36.3		
Body	NR Band n77	100	5	Tablet	7CGB2	1:1	0.00	3750.00	650000	CW/SRS	25.0	24.76	Top	25	0.022	1.057	0.023	0.074						41.3		
Body	NR Band n77	100	5	Laptop	7CGB2	1:1	0.03	3750.00	650000	CW/SRS	25.0	24.76	Bottom	0	0.170	1.057	0.180	0.568						32.4		
Body	NR Band n77	100	5	Tablet	7CGB2	1:1	0.04	3750.00	650000	CW/SRS	25.0	24.76	Right	25	0.000	1.057	0.000	0.000						64.7		
Body	NR Band n77 DoD	100	5	Tablet	7CGB2	1:1	-0.04	3500.01	63334	CW/SRS	25.0	24.78	Left	25	0.264	1.052	0.278	0.878						30.5		
Body	NR Band n77	100	5	Tablet	7CGB2	1:1	-0.03	3750.00	650000	CW/SRS	25.0	24.76	Left	25	0.202	1.057	0.214	0.675						31.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																				Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFSPlimit [dBm]
Body	NR Band n77	100	8	Tablet	7CGB2	1:1	0.03	3750.00	650000	CW/SRS	25.0	24.46	Back	25	0.099	1.132	0.112	0.151						34.5		
Body	NR Band n77	100	8	Tablet	7CGB2	1:1	-0.03	375																		

**Table 10-52
NR Band n77 Tablet**

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]					
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.58	1	1	Back	0	0.390	1.052	0.410		13.6	9.6	8.8					
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	9.8	9.38	1	137	Back	0	0.438	1.102	0.483		12.9							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.52	135	0	Back	0	0.367	1.067	0.392		13.8							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.06	3930.00	662000	DFT-s-OFDM	0.0	9.8	9.51	135	69	Back	0	0.387	1.069	0.414		13.6							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.32	270	0	Back	0	0.385	1.117	0.430		13.4							
Body	NR Band n77 DoD	100	QPSK	2	N/A	7CCK2	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	9.8	9.26	1	271	Top	0	0.798	1.132	0.903		10.2							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	-0.21	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.58	1	1	Top	0	0.856	1.052	0.901		10.2							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	9.8	9.38	1	137	Top	0	0.894	1.102	0.985		9.8							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.52	135	0	Top	0	0.917	1.067	0.978		9.8							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	9.8	9.51	135	69	Top	0	0.932	1.069	0.996	AS2	9.8							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.32	270	0	Top	0	0.923	1.117	1.031		9.6							
Body	NR Band n77	100	QPSK	2	Keyboard	7CCK2	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.32	270	0	Top	0	0.875	1.117	0.977		9.9							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.01	3750.00	650000	CP-OFDM	0.0	9.8	9.53	1	1	Top	0	0.897	1.064	0.954		10.0							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.58	1	1	Bottom	0	0.000	1.052	0.000		49.5							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.52	135	0	Bottom	0	0.000	1.067	0.000		49.5							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.58	1	1	Right	0	0.005	1.052	0.005		32.5							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.52	1	1	Left	0	0.003	1.067	0.003		34.7							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.58	1	1	Left	0	0.000	1.052	0.000		49.5							
Body	NR Band n77	100	QPSK	2	N/A	7CCK2	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	9.8	9.52	135	0	Left	0	0.000	1.067	0.000		49.5							
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							Body 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]			Overall Plimit [dBm]	EF5 Plimit [dBm]			
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.36	1	137	Back	0	0.429	1.132	0.486		15.0			12.1	10.9			
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	11.9	11.21	1	137	Back	0	0.517	1.172	0.606		14.0							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.35	135	0	Back	0	0.455	1.135	0.516		14.7							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	11.9	11.27	135	69	Back	0	0.502	1.156	0.580		14.2							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.20	270	0	Back	0	0.418	1.175	0.491		14.9							
Body	NR Band n77 DoD	100	QPSK	3	N/A	7CBG2	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	11.9	11.37	1	271	Top	0	0.665	1.320	0.751		13.1							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.36	1	137	Top	0	0.714	1.132	0.808		12.8							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	11.9	11.21	1	137	Top	0	0.807	1.172	0.946		12.1							
Body	NR Band n77	100	QPSK	3	Keyboard	7CBG2	1:1	-0.11	3930.00	662000	DFT-s-OFDM	0.0	11.9	11.21	1	137	Top	0	0.786	1.172	0.921		12.2							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.35	135	0	Top	0	0.461	1.135	0.750		13.1							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	-0.05	3930.00	662000	DFT-s-OFDM	0.0	11.9	11.27	135	69	Top	0	0.799	1.156	0.924		12.2							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.20	270	0	Top	0	0.702	1.175	0.825		12.7							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	-0.05	3750.00	650000	CP-OFDM	0.0	11.9	11.21	1	1	Top	0	0.723	1.172	0.847		12.6							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.36	1	137	Bottom	0	0.003	1.132	0.003		36.5							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.35	135	0	Bottom	0	0.003	1.135	0.003		36.5							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.35	135	0	Right	0	0.002	1.132	0.000		51.3							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.35	135	0	Right	0	0.000	1.135	0.000		51.3							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.36	1	137	Left	0	0.028	1.132	0.032		26.8							
Body	NR Band n77	100	QPSK	3	N/A	7CBG2	1:1	-0.11	3750.00	650000	DFT-s-OFDM	0.0	11.9	11.35	135	0	Left	0	0.031	1.135	0.035		26.4							
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							Body 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]								
Body	NR Band n77	100	5	N/A	7CBG2	1:1	0.04	3750.00	650000	CW/SRS	2.0	0.78	2.0	0.78	Back	0	0.000	1.324	0.000		40.7	13.0	1.0							
Body	NR Band n77	100	5	N/A	7CBG2	1:1	0.13	3750.00	650000	CW/SRS	2.0	0.78	2.0	0.78	Top	0	0.000	1.324	0.000		40.7									
Body	NR Band n77	100	5	N/A	7CBG2	1:1	0.09	3750.00	650000	CW/SRS	2.0	0.78	2.0	0.78	Bottom	0	0.007	1.324	0.009		22.3									
Body	NR Band n77	100	5	N/A	7CBG2	1:1	0.04	3750.00	650000	CW/SRS	2.0	0.78	2.0	0.78	Right	0	0.000	1.324	0.000		40.7									
Body	NR Band n77 DoD	100	5	N/A	7CBG2	1:1	0.06	3500.01	633334	CW/SRS	2.0	0.78	2.0	0.78	Left	0	0.054	1.324	0.071		13.4									
Body	NR Band n77	100	5	N/A	7CBG2	1:1	0.00	3750.00	650000	CW/SRS	2.0	0.78	2.0	0.78	Left	0	0.059	1.324	0.078		13.0									
Body	NR Band n77	100	5	Keyboard	7CBG2	1:1	0.04	3750.00	650000	CW/SRS	2.0	0.78	2.0	0.78	Left	0	0.019	1.324	0.025		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						
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EF5 Plimit [dBm]								
Body	NR Band n77	100	8	N/A	7CBG2	1:1	0.05	3750.00	650000	CW/SRS	-0.5	-1.90	-0.5	-1.90	Back	0	0.016	1.380	0.022		16.0	11.7	-1.5							
Body	NR Band n77	100	8	N/A	7CBG2	1:1	0.03	3750.00	650000	CW/SRS	-0.5	-1.90	-0.5	-1.90	Top	0	0.002	1.380	0.003		25.0									
Body	NR Band n77	100	8	N/A	7CBG2	1:1	0.02	3750.00	650000	CW/SRS	-0.5	-1.90	-0.5	-1.90	Bottom	0	0.000	1.380	0.000		38.1									
Body	NR Band n77 DoD	100	8	N/A																										

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Table 10-53 2.4 GHz WLAN Ant 6 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	Tablet	7CDP2	98.08	0.07	2437.00	6	1	21.5	20.72	Back	25	0.030	1.197	1.020	0.037		35.8	32.9
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	Tablet	7CDP2	98.08	0.19	2437.00	6	1	21.5	20.72	Top	25	0.009	1.197	1.020	0.011		41.0	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	Laptop	B44F2	98.08	-0.07	2437.00	6	1	21.5	20.72	Bottom	0	0.059	1.197	1.020	0.072		32.9	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	Tablet	7CDP2	98.08	0.05	2437.00	6	1	21.5	20.72	Right	25	0.000	1.197	1.020	0.000		60.6	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	Tablet	7CDP2	98.08	-0.02	2437.00	6	1	21.5	20.72	Left	25	0.048	1.197	1.020	0.059		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 10-54 2.4 GHz WLAN Ant 7 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	Tablet	B44G2	98.05	0.14	2437.00	6	1	21.5	20.55	Back	25	0.047	1.245	1.020	0.060		33.7	32.2
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	Tablet	B44G2	98.05	0.09	2437.00	6	1	21.5	20.55	Top	25	0.008	1.245	1.020	0.010		41.4	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	Laptop	B44D2	98.05	0.02	2437.00	6	1	21.5	20.55	Bottom	0	0.062	1.245	1.020	0.079		32.5	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	Tablet	B44G2	98.05	-0.04	2437.00	6	1	21.5	20.55	Right	25	0.067	1.245	1.020	0.085	A53	32.2	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	Tablet	B44C2	98.05	0.06	2437.00	6	1	21.5	20.55	Left	25	0.000	1.245	1.020	0.000		60.4	
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 10-55 2.4 GHz WLAN Ant 6 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	N/A	7CFB2	98.08	0.01	2462.00	11	1	14.75	14.68	Back	0	0.306	1.016	1.020	0.317		19.7	14.0
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	N/A	7CCK2	98.08	0.06	2462.00	11	1	14.75	14.68	Top	0	0.021	1.016	1.020	0.022		31.3	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	N/A	7CCK2	98.08	0.05	2462.00	11	1	14.75	14.68	Bottom	0	0.010	1.016	1.020	0.010		34.5	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	N/A	7CCK2	98.08	0.01	2462.00	11	1	14.75	14.68	Right	0	0.000	1.016	1.020	0.000		54.5	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	N/A	7CCK2	98.08	-0.05	2412.00	1	1	14.75	14.67	Left	0	1.100	1.019	1.020	1.143		14.1	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	N/A	7CCK2	98.08	0.01	2437.00	6	1	14.75	14.63	Left	0	1.110	1.028	1.020	1.164		14.0	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	N/A	7CCK2	98.08	0.01	2462.00	11	1	14.75	14.68	Left	0	1.140	1.016	1.020	1.181	A40	14.0	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	Keyboard	7CCK2	98.08	-0.04	2462.00	11	1	14.75	14.68	Left	0	0.396	1.016	1.020	0.410		18.6	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	6	N/A	7CCK2	98.08	-0.07	2462.00	11	1	14.75	14.68	Left	0	1.130	1.016	1.020	1.171		14.0	
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 10-56 2.4 GHz WLAN Ant 7 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	N/A	7CBG2	98.05	0.00	2437.00	6	1	14.5	14.31	Back	0	0.280	1.045	1.020	0.298		19.7	13.7
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	N/A	7CBG2	98.05	0.04	2437.00	6	1	14.5	14.31	Top	0	0.015	1.045	1.020	0.016		32.4	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	N/A	7CBG2	98.05	0.09	2437.00	6	1	14.5	14.31	Bottom	0	0.011	1.045	1.020	0.012		33.8	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	N/A	7CBG2	98.05	0.00	2412.00	1	1	14.5	14.17	Right	0	1.070	1.079	1.020	1.178		13.7	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	Keyboard	7CBG2	98.05	0.01	2412.00	1	1	14.5	14.17	Right	0	0.991	1.079	1.020	1.091		14.1	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	N/A	7CBG2	98.05	0.03	2437.00	6	1	14.5	14.31	Right	0	1.030	1.045	1.020	1.098		14.0	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	N/A	7CBG2	98.05	0.01	2462.00	11	1	14.5	14.19	Right	0	1.050	1.074	1.020	1.150		13.8	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	7	N/A	7CBG2	98.05	0.07	2437.00	6	1	14.5	14.31	Left	0	0.000	1.045	1.020	0.000		54.2	
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 10-57 5 GHz WLAN Ant 6 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	5 GHz WiFi / IEEE 802.11n	20	OFDM	6	Tablet	B4F2	99.64	0.02	5280.00	56	U-NII-2A	13.5	19.5	18.82	Back	25	0.045	1.169	1.004	0.053		32.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	Tablet	B4F2	98.68	-0.16	5610.00	122	U-NII-2C	29.3	19.5	18.71	Back	25	0.052	1.199	1.013	0.063		31.4	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	6	Tablet	7C8R2	99.39	-0.16	5795.00	159	U-NII-3	13.5	21.0	20.12	Back	25	0.052	1.225	1.006	0.064		32.9	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	6	Tablet	BFF42	99.39	0.04	5875.00	175	U-NII-4	13.5	21.0	20.59	Back	25	0.053	1.099	1.006	0.059		33.3	
Body	5 GHz WiFi / IEEE 802.11n	20	OFDM	6	Tablet	B4F2	99.64	0.02	5280.00	56	U-NII-2A	13.5	19.5	18.82	Top	25	0.018	1.169	1.004	0.021		36.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	Tablet	B4F2	98.68	0.04	5610.00	122	U-NII-2C	29.3	19.5	18.71	Top	25	0.018	1.199	1.013	0.022		36.0	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	6	Tablet	7C8R2	99.39	0.20	5795.00	159	U-NII-3	13.5	21.0	20.12	Top	25	0.031	1.225	1.006	0.038		35.1	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	6	Tablet	BFF42	99.39	0.06	5875.00	175	U-NII-4	13.5	21.0	20.59	Top	25	0.052	1.099	1.006	0.057		33.4	
Body	5 GHz WiFi / IEEE 802.11n	20	OFDM	6	Laptop	B4F2	99.64	0.01	5280.00	56	U-NII-2A	13.5	19.5	18.82	Bottom	0	0.086	1.169	1.004	0.032		29.4	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	Laptop	B4F2	98.68	0.08	5610.00	122	U-NII-2C	29.3	19.5	18.71	Bottom	0	0.098	1.199	1.013	0.119		28.7	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	6	Laptop	B4F2	99.39	0.05	5795.00	159	U-NII-3	13.5	21.0	20.12	Bottom	0	0.102	1.225	1.006	0.126		30.0	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	6	Laptop	BFF42	99.39	0.08	5875.00	175	U-NII-4	13.5	21.0	20.59	Bottom	0	0.201	1.099	1.006	0.222		27.5	
Body	5 GHz WiFi / IEEE 802.11n	20	OFDM	6	Tablet	B4F2	99.64	0.01	5280.00	56	U-NII-2A	13.5	19.5	18.82	Right	25	0.000	1.169	1.004	0.000		58.8	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	Tablet	B4F2	98.68	0.06	5610.00	122	U-NII-2C	29.3	19.5	18.71	Right	25	0.000	1.199	1.013	0.000		58.6	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	6	Tablet	7C8R2	99.39	0.08	5795.00	159	U-NII-3	13.5	21.0	20.12	Right	25	0.000	1.225	1.006	0.000		60.0	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	6	Tablet	BFF42	99.39	0.01	5875.00	175	U-NII-4	13.5	21.0	20.59	Right	25	0.002	1.099	1.006	0.002		47.5	
Body	5 GHz WiFi / IEEE 802.11n	20	OFDM	6	Tablet	B4F2	99.64	-0.04	5280.00	56	U-NII-2A	13.5	19.5	18.82	Left	25	0.175	1.169	1.004	0.210		26.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	Tablet	B4F2	98.68	0.11	5610.00	122	U-NII-2C	29.3	19.5	18.71	Left	25	0.308	1.199	1.013	0.372		23.7	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	6	Tablet	B4F2	99.39	0.02	5795.00	159	U-NII-3	13.5	21.0	20.12	Left	25	0.313	1.225	1.006	0.386		25.1	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	6	Tablet	BFF42	99.39	0.05	5875.00	175	U-NII-4	13.5	21.0	20.59	Left	25	0.360	1.099	1.006	0.398		25.0	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

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Table 10-58 5 GHz WLAN Ant 7 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	5 GHz WiFi / IEEE 802.11n	20	OFDM	7	Tablet	B4F2	99.66	0.01	5300.00	60	U-NII-2A	13.5	19.5	19.05	Back	25	0.043	1.109	1.003	0.048		32.7	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	Tablet	B4F2	99.23	0.01	5610.00	122	U-NII-2C	29.3	19.5	18.68	Back	25	0.065	1.208	1.008	0.079		30.5	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	7	Tablet	B4F2	99.33	0.04	5795.00	159	U-NII-3	13.5	21.0	20.46	Back	25	0.078	1.132	1.007	0.089		31.5	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	7	Tablet	BFF42	99.33	0.10	5875.00	175	U-NII-4	13.5	21.0	20.20	Back	25	0.088	1.202	1.007	0.107		30.7	
Body	5 GHz WiFi / IEEE 802.11n	20	OFDM	7	Tablet	B4F2	99.66	-0.18	5300.00	60	U-NII-2A	13.5	19.5	19.05	Top	25	0.033	1.109	1.003	0.037		33.8	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	Tablet	B4F2	99.23	0.05	5610.00	122	U-NII-2C	29.3	19.5	18.68	Top	25	0.094	1.208	1.008	0.041		33.3	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	7	Tablet	B4F2	99.33	0.03	5795.00	159	U-NII-3	13.5	21.0	20.46	Top	25	0.046	1.132	1.007	0.052		33.8	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	7	Tablet	BFF42	99.33	0.08	5875.00	175	U-NII-4	13.5	21.0	20.20	Top	25	0.096	1.202	1.007	0.044		34.6	
Body	5 GHz WiFi / IEEE 802.11n	20	OFDM	7	Laptop	B4F2	99.66	0.15	5300.00	60	U-NII-2A	13.5	19.5	19.05	Bottom	0	0.107	1.109	1.003	0.119		28.7	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	Laptop	B4F2	99.23	0.03	5610.00	122	U-NII-2C	29.3	19.5	18.68	Bottom	0	0.110	1.208	1.008	0.134		28.2	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	7	Laptop	B4F2	99.33	-0.07	5795.00	159	U-NII-3	13.5	21.0	20.46	Bottom	0	0.134	1.132	1.007	0.153		29.1	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	7	Laptop	BFF42	99.33	0.03	5875.00	175	U-NII-4	13.5	21.0	20.20	Bottom	0	0.150	1.202	1.007	0.182		28.4	
Body	5 GHz WiFi / IEEE 802.11n	20	OFDM	7	Tablet	B4F2	99.66	-0.15	5300.00	60	U-NII-2A	13.5	19.5	19.05	Right	25	0.201	1.109	1.003	0.224		26.0	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	Tablet	B4F2	99.23	0.03	5610.00	122	U-NII-2C	29.3	19.5	18.68	Right	25	0.255	1.208	1.008	0.311		24.5	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	7	Tablet	B4F2	99.33	-0.18	5795.00	159	U-NII-3	13.5	21.0	20.46	Right	25	0.377	1.132	1.007	0.430	ASS	24.6	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	7	Tablet	BFF42	99.33	0.15	5875.00	175	U-NII-4	13.5	21.0	20.20	Right	25	0.369	1.202	1.007	0.447		24.5	
Body	5 GHz WiFi / IEEE 802.11n	20	OFDM	7	Tablet	B4F2	99.66	0.05	5300.00	60	U-NII-2A	13.5	19.5	19.05	Left	25	0.000	1.109	1.003	0.000		59.0	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	Tablet	B4F2	99.23	0.02	5610.00	122	U-NII-2C	29.3	19.5	18.68	Left	25	0.000	1.208	1.008	0.000		58.6	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	7	Tablet	B4F2	99.33	0.01	5795.00	159	U-NII-3	13.5	21.0	20.46	Left	25	0.004	1.132	1.007	0.005		44.4	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	7	Tablet	BFF42	99.33	0.07	5875.00	175	U-NII-4	13.5	21.0	20.20	Left	25	0.003	1.202	1.007	0.004		45.3	
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 10-59
5 GHz WLAN Ant 6 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	-0.01	5290.00	58	U-NII-2A	29.3	8.75	7.56	Back	0	0.096	1.315	1.013	0.128		17.6	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.07	5610.00	122	U-NII-2C	29.3	8.0	7.28	Back	0	0.103	1.180	1.013	0.123		17.0	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.06	5775.00	155	U-NII-3	29.3	7.75	6.56	Back	0	0.087	1.315	1.013	0.116		17.1	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	-0.03	5855.00	171	U-NII-4	29.3	7.75	6.55	Back	0	0.119	1.318	1.013	0.159		15.7	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.01	5290.00	58	U-NII-2A	29.3	8.75	7.56	Top	0	0.003	1.315	1.013	0.004		32.7	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.07	5610.00	122	U-NII-2C	29.3	8.0	7.28	Top	0	0.010	1.180	1.013	0.012		27.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.07	5775.00	155	U-NII-3	29.3	7.75	6.56	Top	0	0.006	1.315	1.013	0.008		28.7	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.06	5855.00	171	U-NII-4	29.3	7.75	6.55	Top	0	0.016	1.318	1.013	0.021		24.4	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	-0.11	5290.00	58	U-NII-2A	29.3	8.75	7.56	Bottom	0	0.020	1.315	1.013	0.027		24.4	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.09	5610.00	122	U-NII-2C	29.3	8.0	7.28	Bottom	0	0.036	1.180	1.013	0.043		21.6	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.05	5775.00	155	U-NII-3	29.3	7.75	6.56	Bottom	0	0.025	1.315	1.013	0.033		22.5	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.09	5855.00	171	U-NII-4	29.3	7.75	6.55	Bottom	0	0.037	1.318	1.013	0.049		20.8	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.03	5290.00	58	U-NII-2A	29.3	8.75	7.56	Right	0	0.000	1.315	1.013	0.000		47.5	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.08	5610.00	122	U-NII-2C	29.3	8.0	7.28	Right	0	0.000	1.180	1.013	0.000		47.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.07	5775.00	155	U-NII-3	29.3	7.75	6.56	Right	0	0.000	1.315	1.013	0.000		46.5	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	7CCY2	98.68	0.01	5855.00	171	U-NII-4	29.3	7.75	6.55	Right	0	0.000	1.318	1.013	0.000		46.4	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	B44G2	98.68	0.00	5290.00	155	U-NII-3	29.3	8.75	7.56	Left	0	0.419	1.315	1.013	0.558		11.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	B44G2	98.68	0.11	5610.00	122	U-NII-2C	29.3	8.00	7.28	Left	0	0.498	1.180	1.013	0.955		10.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	B44G2	98.68	-0.02	5775.00	155	U-NII-3	29.3	7.75	6.56	Left	0	0.377	1.315	1.013	0.502		10.7	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	N/A	B44G2	98.68	-0.07	5855.00	171	U-NII-4	29.3	7.75	6.55	Left	0	0.571	1.318	1.013	0.762		8.9	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	6	Keyboard	7CCY2	98.68	0.17	5855.00	171	U-NII-4	29.3	7.75	6.55	Left	0	0.219	1.318	1.013	0.292		13.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 10-60
5 GHz WLAN Ant 7 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.02	5290.00	58	U-NII-2A	29.3	8.0	7.01	Back	0	0.147	1.256	1.008	0.186		15.3	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	-0.05	5300.00	106	U-NII-2C	29.3	7.75	7.33	Back	0	0.136	1.102	1.008	0.151		15.9	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.03	5775.00	155	U-NII-3	29.3	7.5	6.71	Back	0	0.140	1.199	1.008	0.169		15.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.00	5855.00	171	U-NII-4	29.3	7.5	7.01	Back	0	0.127	1.119	1.008	0.143		15.9	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.03	5290.00	58	U-NII-2A	29.3	8.0	7.01	Top	0	0.004	1.256	1.008	0.005		30.9	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.02	5300.00	106	U-NII-2C	29.3	7.75	7.33	Top	0	0.002	1.102	1.008	0.002		34.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.01	5775.00	155	U-NII-3	29.3	7.5	6.71	Top	0	0.007	1.199	1.008	0.008		28.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.09	5855.00	171	U-NII-4	29.3	7.5	7.01	Top	0	0.006	1.119	1.008	0.007		29.1	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.08	5290.00	58	U-NII-2A	29.3	8.0	7.01	Bottom	0	0.014	1.256	1.008	0.018		25.5	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.06	5300.00	106	U-NII-2C	29.3	7.75	7.33	Bottom	0	0.012	1.102	1.008	0.013		26.5	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.08	5775.00	155	U-NII-3	29.3	7.5	6.71	Bottom	0	0.010	1.199	1.008	0.012		26.6	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.07	5855.00	171	U-NII-4	29.3	7.5	7.01	Bottom	0	0.007	1.119	1.008	0.008		28.5	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	-0.06	5290.00	58	U-NII-2A	29.3	8.0	7.01	Right	0	0.864	1.256	1.008	1.094		7.6	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	-0.04	5290.00	58	U-NII-2A	29.3	8.0	7.01	Right	0	0.928	1.256	1.008	1.048		7.7	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	-0.03	5300.00	106	U-NII-2C	29.3	7.75	7.33	Right	0	0.848	1.102	1.008	0.942		8.0	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.05	5610.00	122	U-NII-2C	29.3	7.75	7.00	Right	0	0.922	1.189	1.008	1.105	A56	7.3	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	Keyboard	7CCY2	99.23	0.00	5610.00	122	U-NII-2C	29.3	7.75	7.00	Right	0	0.242	1.189	1.008	0.290		13.1	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.06	5610.00	122	U-NII-2C	29.3	7.75	7.00	Right	0	0.912	1.189	1.008	1.093		7.3	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.00	5690.00	138	U-NII-3	29.3	7.75	6.92	Right	0	0.876	1.211	1.008	1.069		7.4	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.00	5775.00	155	U-NII-3	29.3	7.5	6.71	Right	0	0.878	1.199	1.008	1.061		7.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.05	5775.00	155	U-NII-3	29.3	7.5	6.71	Right	0	0.875	1.199	1.008	1.006		7.4	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	-0.02	5855.00	171	U-NII-4	29.3	7.5	7.01	Right	0	0.870	1.119	1.008	0.981		7.5	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.01	5855.00	171	U-NII-4	29.3	7.5	7.01	Right	0	0.926	1.119	1.008	0.954		7.7	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.20	5290.00	58	U-NII-2A	29.3	8.0	7.01	Left	0	0.000	1.256	1.008	0.000		46.9	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.08	5300.00	106	U-NII-2C	29.3	7.75	7.33	Left	0	0.000	1.102	1.008	0.000		47.2	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.03	5775.00	155	U-NII-3	29.3	7.5	6.71	Left	0	0.000	1.199	1.008	0.000		46.6	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	7	N/A	7CCY2	99.23	0.01	5855.00	171	U-NII-4	29.3	7.5	7.01	Left	0	0.000	1.119	1.008	0.000		46.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Note: Blue entry represents variability measurement

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10.1 6 GHz SISO Standalone SAR and APD

Table 10-61 6 GHz WLAN Ant 6 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CFB2	99.58	0.01	5985.00	7	MCS0	20.0	19.55	Back	25	0.053	1.109	1.004	0.059			32.2
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CFB2	99.58	0.07	6305.00	71	MCS0	20.0	19.55	Back	25	0.046	1.109	1.004	0.051			32.9
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CFB2	99.58	0.06	5985.00	7	MCS0	20.0	19.55	Top	25	0.036	1.109	1.004	0.040			33.9
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CFB2	99.58	0.01	6305.00	71	MCS0	20.0	19.55	Top	25	0.046	1.109	1.004	0.051			32.9
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Laptop	7CDB2	99.58	0.03	5985.00	7	MCS0	20.0	19.55	Bottom	0	0.118	1.109	1.004	0.131			28.8
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Laptop	7CDB2	99.58	0.08	6305.00	71	MCS0	20.0	19.55	Bottom	0	0.206	1.109	1.004	0.229			26.3
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CDG2	99.58	-0.19	5985.00	7	MCS0	20.0	19.55	Right	25	0.000	1.109	1.004	0.000			59.5
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CFB2	99.58	0.01	6305.00	71	MCS0	20.0	19.55	Right	25	0.002	1.109	1.004	0.002			46.5
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CDG2	99.58	0.11	5985.00	7	MCS0	20.0	19.55	Left	25	0.251	1.109	1.004	0.279			25.5
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CDG2	99.58	0.01	6305.00	71	MCS0	20.0	19.55	Left	25	0.276	1.109	1.004	0.307			25.1
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	6	Tablet	7CDG2	99.55	0.07	6425.00	95	MCS0	11.0	10.41	Left	25	0.065	1.146	1.005	0.075			22.2
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CDG2	99.58	-0.02	6705.00	151	MCS0	20.0	19.13	Left	25	0.349	1.222	1.004	0.428			23.6
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	6	Tablet	7CDG2	99.55	0.06	6905.00	191	MCS0	10.5	9.59	Left	25	0.075	1.233	1.005	0.093			20.8
ANS/IEEE C55.1.1982 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Plot #		
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CFB2	99.58	0.01	5985.00	7	MCS0	20.0	19.55	Back	25	0.369	1.109	1.004	0.411			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CFB2	99.58	0.07	6305.00	71	MCS0	20.0	19.55	Back	25	0.397	1.109	1.004	0.442			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CFB2	99.58	0.06	5985.00	7	MCS0	20.0	19.55	Top	25	0.307	1.109	1.004	0.342			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CFB2	99.58	0.01	6305.00	71	MCS0	20.0	19.55	Top	25	0.451	1.109	1.004	0.502			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Laptop	7CDB2	99.58	0.03	5985.00	7	MCS0	20.0	19.55	Bottom	0	0.884	1.109	1.004	0.984			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Laptop	7CDB2	99.58	0.08	6305.00	71	MCS0	20.0	19.55	Bottom	0	1.690	1.109	1.004	1.882			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CDG2	99.58	-0.19	5985.00	7	MCS0	20.0	19.55	Right	25	0.000	1.109	1.004	0.000			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CFB2	99.58	0.01	6305.00	71	MCS0	20.0	19.55	Right	25	0.014	1.109	1.004	0.016			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CDG2	99.58	0.11	5985.00	7	MCS0	20.0	19.55	Left	25	2.250	1.109	1.004	2.505			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CDG2	99.58	0.01	6305.00	71	MCS0	20.0	19.55	Left	25	2.600	1.109	1.004	2.895			
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	6	Tablet	7CDG2	99.55	0.07	6425.00	95	MCS0	11.0	10.41	Left	25	0.587	1.146	1.005	0.676			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	6	Tablet	7CDG2	99.58	-0.02	6705.00	151	MCS0	20.0	19.13	Left	25	3.230	1.222	1.004	3.963			
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	6	Tablet	7CDG2	99.55	0.06	6905.00	191	MCS0	10.5	9.59	Left	25	0.701	1.233	1.005	0.869			

Table 10-62 6 GHz WLAN Ant 7 Laptop and Tablet - No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.06	5985.00	7	MCS0	20.0	19.28	Back	25	0.071	1.180	1.005	0.084			30.7
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.06	6305.00	71	MCS0	20.0	19.41	Back	25	0.073	1.146	1.005	0.084			30.7
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.10	5985.00	7	MCS0	20.0	19.28	Top	25	0.037	1.180	1.005	0.044			33.5
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.06	6305.00	71	MCS0	20.0	19.41	Top	25	0.027	1.146	1.005	0.031			35.0
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Laptop	7CDB2	99.49	0.08	5985.00	7	MCS0	20.0	19.28	Bottom	0	0.061	1.180	1.005	0.072			31.4
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Laptop	7CDB2	99.49	0.05	6305.00	71	MCS0	20.0	19.41	Bottom	0	0.046	1.146	1.005	0.053			32.7
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CDG2	99.49	0.18	5985.00	7	MCS0	20.0	19.28	Right	25	0.268	1.180	1.005	0.318			24.9
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CDG2	99.49	0.00	6305.00	71	MCS0	20.0	19.41	Right	25	0.333	1.146	1.005	0.384			24.1
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	7	Tablet	7CDG2	99.46	0.04	6425.00	95	MCS0	11.0	10.86	Right	25	0.070	1.033	1.005	0.073			22.3
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CDG2	99.49	0.12	6705.00	151	MCS0	20.0	19.16	Right	25	0.381	1.213	1.005	0.464	A57		23.3
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	7	Tablet	7CDG2	99.46	0.01	6905.00	191	MCS0	10.5	10.18	Right	25	0.127	1.076	1.005	0.137			19.1
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.03	5985.00	7	MCS0	20.0	19.28	Left	25	0.000	1.180	1.005	0.000			59.2
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.04	6305.00	71	MCS0	20.0	19.41	Left	25	0.015	1.146	1.005	0.017			37.6
ANS/IEEE C55.1.1982 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Plot #		
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.06	5985.00	7	MCS0	20.0	19.28	Back	25	0.537	1.180	1.005	0.637			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.06	6305.00	71	MCS0	20.0	19.41	Back	25	0.675	1.146	1.005	0.777			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.10	5985.00	7	MCS0	20.0	19.28	Top	25	0.322	1.180	1.005	0.382			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.06	6305.00	71	MCS0	20.0	19.41	Top	25	0.258	1.146	1.005	0.297			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Laptop	7CDB2	99.49	0.08	5985.00	7	MCS0	20.0	19.28	Bottom	0	0.500	1.180	1.005	0.593			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Laptop	7CDB2	99.49	0.05	6305.00	71	MCS0	20.0	19.41	Bottom	0	0.413	1.146	1.005	0.476			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CDG2	99.49	0.18	5985.00	7	MCS0	20.0	19.28	Right	25	2.450	1.180	1.005	2.905			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CDG2	99.49	0.00	6305.00	71	MCS0	20.0	19.41	Right	25	3.000	1.146	1.005	3.455			
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	7	Tablet	7CDG2	99.46	0.04	6425.00	95	MCS0	11.0	10.86	Right	25	0.651	1.033	1.005	0.676			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CDG2	99.49	0.12	6705.00	151	MCS0	20.0	19.16	Right	25	3.330	1.213	1.005	4.059	A57		
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	7	Tablet	7CDG2	99.46	0.01	6905.00	191	MCS0	10.5	10.18	Right	25	1.160	1.076	1.005	1.254			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.03	5985.00	7	MCS0	20.0	19.28	Left	25	0.000	1.180	1.005	0.000			
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	7	Tablet	7CFB2	99.49	0.04	6305.00	71	MCS0	20.0	19.41	Left	25	0.145	1.146	1.005	0.167			

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Table 10-63
6 GHz WLAN Ant 6 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CBR2	99.55	0.06	6905.00	191	MCS0	8.75	8.08	Back	0	0.087	1.167	1.005	0.102		18.6	7.9	
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CD62	99.55	0.02	6905.00	191	MCS0	8.75	8.08	Top	0	0.007	1.167	1.005	0.008		29.6		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CD62	99.55	0.03	6905.00	191	MCS0	8.75	8.08	Bottom	0	0.029	1.167	1.005	0.054		23.4		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CD62	99.55	0.02	6905.00	191	MCS0	8.75	8.08	Right	0	0.006	1.167	1.005	0.007		30.2		
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	6	N/A	7CBR2	99.58	0.17	5985.00	7	MCS0	7.50	7.20	Left	0	0.638	1.072	1.004	0.676		9.2		
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	6	N/A	7CBR2	99.58	-0.06	6305.00	71	MCS0	7.50	7.10	Left	0	0.813	1.096	1.004	0.895		7.9		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CBR2	99.55	0.00	6425.00	95	MCS0	7.50	6.73	Left	0	0.594	1.194	1.005	0.713		8.9		
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	6	N/A	7CBR2	99.58	0.03	6705.00	151	MCS0	8.00	7.25	Left	0	0.758	1.189	1.004	0.905		8.4		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CBR2	99.55	-0.02	6905.00	191	MCS0	8.75	8.08	Left	0	0.811	1.167	1.005	0.951		8.9		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	Keyboard	7CD82	99.55	0.03	6905.00	191	MCS0	8.75	8.08	Left	0	0.836	1.167	1.005	0.980		8.8		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Plot #	Plimit [dBm]		Overall Plimit [dBm]
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CBR2	99.55	0.06	6905.00	191	MCS0	8.75	8.08	Back	0	0.478	1.167	1.005	0.561				
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CD62	99.55	0.02	6905.00	191	MCS0	8.75	8.08	Top	0	0.059	1.167	1.005	0.069				
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CD62	99.55	0.03	6905.00	191	MCS0	8.75	8.08	Bottom	0	0.150	1.167	1.005	0.176				
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CD62	99.55	0.02	6905.00	191	MCS0	8.75	8.08	Right	0	0.055	1.167	1.005	0.065				
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	6	N/A	7CBR2	99.58	0.17	5985.00	7	MCS0	7.50	7.20	Left	0	3.380	1.072	1.004	3.638				
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	6	N/A	7CBR2	99.58	-0.06	6305.00	71	MCS0	7.50	7.10	Left	0	4.380	1.096	1.004	4.820				
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CBR2	99.55	0.00	6425.00	95	MCS0	7.50	6.73	Left	0	3.390	1.194	1.005	4.068				
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	6	N/A	7CBR2	99.58	0.03	6705.00	151	MCS0	8.00	7.25	Left	0	4.170	1.189	1.004	4.978				
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	N/A	7CBR2	99.55	-0.02	6905.00	191	MCS0	8.75	8.08	Left	0	4.160	1.167	1.005	4.879				
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	6	Keyboard	7CD82	99.55	0.03	6905.00	191	MCS0	8.75	8.08	Left	0	4.260	1.167	1.005	4.996				

Table 10-64
6 GHz WLAN Ant 7 Tablet

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CBR2	99.46	-0.05	6425.00	191	MCS0	8.25	7.26	Back	0	0.107	1.256	1.005	0.135		16.9	7.8	
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CD62	99.46	0.08	6425.00	191	MCS0	8.25	7.26	Top	0	0.005	1.256	1.005	0.006		30.2		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CD62	99.46	0.07	6425.00	191	MCS0	8.25	7.26	Bottom	0	0.003	1.256	1.005	0.004		32.4		
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	7	N/A	7CD62	99.49	-0.01	5985.00	7	MCS0	8.00	7.15	Right	0	0.729	1.216	1.005	0.891		8.5		
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	7	N/A	7CD62	99.49	-0.10	6305.00	71	MCS0	8.00	7.18	Right	0	0.731	1.208	1.005	0.887		8.5		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CD62	99.46	-0.07	6425.00	95	MCS0	8.25	6.98	Right	0	0.632	1.340	1.005	0.851		8.9		
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	7	N/A	7CD62	99.49	-0.06	6705.00	151	MCS0	8.00	7.11	Right	0	0.705	1.227	1.005	0.869		8.6		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CD62	99.46	-0.12	6905.00	191	MCS0	8.25	7.26	Right	0	0.873	1.256	1.005	1.102	AS8	7.8		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	Keyboard	7CD82	99.46	0.06	6905.00	191	MCS0	8.25	7.26	Right	0	0.818	1.256	1.005	1.033		8.1		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CBR2	99.46	0.08	6905.00	191	MCS0	8.25	7.26	Right	0	0.864	1.256	1.005	1.091		7.8		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CD62	99.46	0.03	6425.00	191	MCS0	8.25	7.26	Left	0	0.001	1.256	1.005	0.001		37.2		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							
Note: Blue entry represents variability measurement																							
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CBR2	99.46	-0.05	6425.00	191	MCS0	8.25	7.26	Back	0	0.608	1.256	1.005	0.767		20.4	11.8	
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CD62	99.46	0.08	6425.00	191	MCS0	8.25	7.26	Top	0	0.030	1.256	1.005	0.038		33.4		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CD62	99.46	0.07	6425.00	191	MCS0	8.25	7.26	Bottom	0	0.017	1.256	1.005	0.021		35.9		
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	7	N/A	7CD62	99.49	-0.01	5985.00	7	MCS0	8.00	7.15	Right	0	3.930	1.208	1.005	4.803		12.1		
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	7	N/A	7CD62	99.49	-0.10	6305.00	71	MCS0	8.00	7.18	Right	0	4.060	1.208	1.005	4.929		12.0		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CD62	99.46	-0.07	6425.00	95	MCS0	8.25	6.98	Right	0	3.520	1.340	1.005	4.740		12.4		
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	7	N/A	7CD62	99.49	-0.06	6705.00	151	MCS0	8.00	7.11	Right	0	3.780	1.227	1.005	4.661		12.3		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CD62	99.46	-0.12	6905.00	191	MCS0	8.25	7.26	Right	0	4.340	1.256	1.005	5.478	AS8	11.8		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	Keyboard	7CD82	99.46	0.06	6905.00	191	MCS0	8.25	7.26	Right	0	4.030	1.256	1.005	5.087		12.1		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CBR2	99.46	0.08	6905.00	191	MCS0	8.25	7.26	Right	0	4.250	1.256	1.005	5.365		11.9		
Body	6 GHz WiFi/ IEEE 802.11be	320	OFDM	7	N/A	7CD62	99.46	0.03	6425.00	191	MCS0	8.25	7.26	Left	0	0.005	1.256	1.005	0.006		41.2		
Note: Blue entry represents variability measurement																							

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10.2 Bluetooth SISO Standalone SAR

Table 10-65
Bluetooth Ant 6 Laptop and Tablet - No Motion

Exposure	Band / Mode	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	6	Tablet	B44G2	76.80	-0.03	2441.00	39	1	21.5	20.48	Back	25	0.040	1.265	1.016	0.051	A59
Body	2.4 GHz Bluetooth LE	DSSS	6	Tablet	B44G2	85.00	0.00	2440.00	17	1	22.5	21.38	Back	25	0.031	1.294	1.012	0.041	
Body	2.4 GHz Bluetooth	FHSS	6	Tablet	B44G2	76.80	0.06	2441.00	39	1	21.5	20.48	Top	25	0.011	1.265	1.016	0.014	
Body	2.4 GHz Bluetooth	FHSS	6	Laptop	B44F2	76.80	0.00	2441.00	39	1	21.5	20.48	Bottom	0	0.000	1.265	1.016	0.000	
Body	2.4 GHz Bluetooth	FHSS	6	Tablet	B44G2	76.80	0.06	2441.00	39	1	21.5	20.48	Right	25	0.000	1.265	1.016	0.000	
Body	2.4 GHz Bluetooth	FHSS	6	Tablet	B44F2	76.80	0.04	2441.00	39	1	21.5	20.48	Left	25	0.009	1.265	1.016	0.012	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-66
Bluetooth Ant 7 Laptop and Tablet - No Motion

Exposure	Band / Mode	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	7	Tablet	B44G2	77.10	0.02	2441.00	39	1	21.5	20.48	Back	25	0.027	1.265	1.025	0.035	
Body	2.4 GHz Bluetooth LE	DSSS	7	Tablet	B44G2	85.50	0.04	2440.00	17	1	22.5	21.08	Back	25	0.018	1.387	1.018	0.025	
Body	2.4 GHz Bluetooth	FHSS	7	Tablet	B44G2	77.10	0.06	2441.00	39	1	21.5	20.48	Top	25	0.003	1.265	1.025	0.004	
Body	2.4 GHz Bluetooth	FHSS	7	Laptop	B44F2	77.10	0.04	2441.00	39	1	21.5	20.48	Bottom	0	0.000	1.265	1.025	0.000	
Body	2.4 GHz Bluetooth	FHSS	7	Tablet	B44F2	77.10	0.04	2441.00	39	1	21.5	20.48	Right	25	0.010	1.265	1.025	0.013	
Body	2.4 GHz Bluetooth	FHSS	7	Tablet	B44G2	77.10	0.05	2441.00	39	1	21.5	20.48	Left	25	0.000	1.265	1.025	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-67
Bluetooth Ant 6 Tablet

Exposure	Band / Mode	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	6	N/A	7CD62	76.80	-0.03	2441.00	39	1	15.0	14.52	Back	0	0.610	1.117	1.016	0.692	
Body	2.4 GHz Bluetooth	FHSS	6	N/A	7CBC2	76.80	-0.21	2441.00	39	1	15.0	14.52	Top	0	0.044	1.117	1.016	0.050	
Body	2.4 GHz Bluetooth	FHSS	6	N/A	7CBC2	76.80	0.03	2441.00	39	1	15.0	14.52	Bottom	0	0.016	1.117	1.016	0.018	
Body	2.4 GHz Bluetooth	FHSS	6	N/A	7CDG2	76.80	0.05	2441.00	39	1	15.0	14.52	Right	0	0.000	1.117	1.016	0.000	
Body	2.4 GHz Bluetooth	FHSS	6	N/A	7CDG2	76.80	0.18	2402.00	0	1	15.0	13.92	Left	0	0.801	1.282	1.016	1.043	
Body	2.4 GHz Bluetooth	FHSS	6	N/A	7CDG2	76.80	-0.03	2441.00	39	1	15.0	14.52	Left	0	0.868	1.117	1.016	0.985	A60
Body	2.4 GHz Bluetooth	FHSS	6	Keyboard	7CDG2	76.80	-0.01	2441.00	39	1	15.0	14.52	Left	0	0.610	1.117	1.016	0.692	
Body	2.4 GHz Bluetooth	FHSS	6	N/A	7CDG2	76.80	-0.01	2480.00	78	1	15.0	13.32	Left	0	0.594	1.472	1.016	0.888	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	
Body	2.4 GHz Bluetooth	FHSS	6	7CFB2	76.80	-0.13	2441.00	39	1	10.0	9.99	Back	0	0.136	1.002	1.016	0.138		
Body	2.4 GHz Bluetooth	FHSS	6	7CBC2	76.80	-0.09	2441.00	39	1	10.0	9.99	Top	0	0.016	1.002	1.016	0.016		
Body	2.4 GHz Bluetooth	FHSS	6	7CFB2	76.80	0.06	2441.00	39	1	10.0	9.99	Bottom	0	0.000	1.002	1.016	0.000		
Body	2.4 GHz Bluetooth	FHSS	6	7CBC2	76.80	0.01	2441.00	39	1	10.0	9.99	Right	0	0.000	1.002	1.016	0.000		
Body	2.4 GHz Bluetooth	FHSS	6	7CDB2	76.80	-0.10	2441.00	39	1	10.0	9.99	Left	0	0.135	1.002	1.016	0.137		
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 10-68
Bluetooth Ant 7 Tablet**

Exposure	Band / Mode	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	7	N/A	7CDG2	77.10	0.02	2441.00	39	1	14.5	13.81	Back	0	0.186	1.172	1.025	0.223	
Body	2.4 GHz Bluetooth	FHSS	7	N/A	7CBC2	77.10	0.02	2441.00	39	1	14.5	13.81	Top	0	0.002	1.172	1.025	0.002	
Body	2.4 GHz Bluetooth	FHSS	7	N/A	7CBC2	77.10	0.06	2441.00	39	1	14.5	13.81	Bottom	0	0.000	1.172	1.025	0.000	
Body	2.4 GHz Bluetooth	FHSS	7	N/A	7CDG2	77.10	-0.03	2402.00	0	1	14.5	12.70	Right	0	0.650	1.514	1.025	1.009	
Body	2.4 GHz Bluetooth	FHSS	7	N/A	7CDG2	77.10	0.00	2441.00	39	1	14.5	13.81	Right	0	0.853	1.172	1.025	1.025	
Body	2.4 GHz Bluetooth	FHSS	7	Keyboard	7CDG2	77.10	0.06	2441.00	39	1	14.5	13.81	Right	0	0.487	1.172	1.025	0.585	
Body	2.4 GHz Bluetooth	FHSS	7	N/A	7CDG2	77.10	-0.01	2480.00	78	1	14.5	12.60	Right	0	0.568	1.549	1.025	0.902	
Body	2.4 GHz Bluetooth	FHSS	7	N/A	7CDG2	77.10	0.07	2441.00	39	1	14.5	13.81	Left	0	0.000	1.172	1.025	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	
Body	2.4 GHz Bluetooth	FHSS	7	7CFB2	77.10	0.01	2441.00	39	1	10.0	9.72	Back	0	0.055	1.067	1.025	0.060		
Body	2.4 GHz Bluetooth	FHSS	7	7CFB2	77.10	0.07	2441.00	39	1	10.0	9.72	Top	0	0.000	1.067	1.025	0.000		
Body	2.4 GHz Bluetooth	FHSS	7	7CFB2	77.10	0.07	2441.00	39	1	10.0	9.72	Bottom	0	0.000	1.067	1.025	0.000		
Body	2.4 GHz Bluetooth	FHSS	7	7CFB2	77.10	-0.02	2441.00	39	1	10.0	9.72	Right	0	0.123	1.067	1.025	0.135		
Body	2.4 GHz Bluetooth	FHSS	7	7CDB2	77.10	0.09	2441.00	39	1	10.0	9.72	Left	0	0.000	1.067	1.025	0.000		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

10.3 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 447498 D04v01, and FCC KDB Publication 616217 D04v01r02.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- 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.
- This device uses Qualcomm Smart Transmit for 3G/4G/5G and FastConnect for WLAN 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).
- 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.
- Per FCC KDB 616217 D04, SAR is evaluated for the bottom surface of a keyboard when it is attached to the DUT in laptop configuration.
- Per FCC KDB 648474 D04, highest reported SAR tablet configuration for a transmission band on an antenna was additionally evaluated with keyboard accessory attached and folded back at 360°
- The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
- This device is equipped with a motion sensor for power reduction. Testing was performed at 25 mm for all applicable antennas at max power to determine compliance for higher powers levels when the motion sensor is not tripped.
- This device uses Qualcomm FastConnect TAS for WLAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed

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

UMTS Notes:

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

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 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 or 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.
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 conditions. Please see Section 13 for linearity results.
8. For LTE Band 5, LTE Band 66, LTE Band 2, LTE Band 48, and LTE Band 41, 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.

NR Notes:

1. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.

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

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 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 the Simultaneous Numerical Calculations Appendix 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. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested.

Bluetooth Notes

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

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11 POWER DENSITY DATA SUMMARY

11.1 6 GHz WIFI Power Density Results

**Table 11-1
6 GHz WLAN Laptop and Tablet – No Motion IPD**

MEASUREMENT RESULTS																								
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) (dBm)	Conducted Power (Ant 1) (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	Configuration	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (V)	IPD (W/m ²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)	Plot #
6305.00	71	802.11ax	OFDM	80	20.00	19.55	-0.15	25	6	Tablet	7CDP2	34	Back	99.58	0.125	-	1.554	1.109	1.004	1.210	2.094	1.250	2.163	
5985.00	7	802.11ax	OFDM	80	20.00	19.55	-0.12	2	6	Laptop	7CDP2	34	Bottom	99.58	0.125	1.350	1.554	1.109	1.004	0.746	1.291	1.020	1.765	
5985.00	7	802.11ax	OFDM	80	20.00	19.55	0.02	10.02	6	Laptop	7CDP2	34	Bottom	99.58	0.125	1.210	1.554	1.109	1.004	0.722	1.249	0.763	1.320	
6305.00	71	802.11ax	OFDM	80	20.00	19.55	0.06	2	6	Laptop	7CDP2	34	Bottom	99.58	0.125	-	1.554	1.109	1.004	1.280	2.180	1.450	2.509	
6425.00	95	802.11be	OFDM	320	11.00	10.41	-0.12	2	6	Laptop	7CDP2	34	Bottom	99.58	0.125	-	1.554	1.146	1.004	0.426	0.762	0.457	0.817	
6705.00	151	802.11ax	OFDM	80	20.00	19.13	0.12	2	6	Laptop	7CDP2	34	Bottom	99.58	0.125	-	1.554	1.222	1.004	1.030	1.964	1.300	2.479	
5985.00	7	802.11ax	OFDM	80	20.00	19.55	0.16	25	6	Tablet	7CDP2	34	Left	99.58	0.125	-	1.554	1.109	1.004	1.130	3.685	2.220	3.841	
6305.00	71	802.11ax	OFDM	80	20.00	19.55	0.00	25	6	Tablet	7CDP2	34	Left	99.58	0.125	-	1.554	1.109	1.004	2.460	4.256	2.730	4.724	
6425.00	95	802.11be	OFDM	320	11.00	10.41	-0.05	25	6	Tablet	7CDP2	34	Left	99.58	0.125	-	1.554	1.146	1.004	0.607	1.085	0.663	1.185	
6705.00	151	802.11ax	OFDM	80	20.00	19.13	-0.13	25	6	Tablet	7CDP2	34	Left	99.58	0.125	-	1.554	1.222	1.004	2.530	4.824	2.570	4.900	
6905.00	191	802.11be	OFDM	320	10.50	10.18	0.00	25	6	Tablet	7CDP2	34	Left	99.58	0.125	-	1.554	1.076	1.004	0.742	1.246	0.762	1.313	
6305.00	71	802.11ax	OFDM	80	20.00	19.41	-0.14	25	7	Tablet	3PCDJ	34	Back	99.49	0.125	-	1.554	1.146	1.005	0.597	1.069	0.633	1.133	
5985.00	7	802.11ax	OFDM	80	20.00	19.28	0.09	2	7	Laptop	7CDP2	34	Bottom	99.49	0.125	-	1.554	1.180	1.005	0.901	1.660	0.944	1.740	
6305.00	71	802.11ax	OFDM	80	20.00	19.41	-0.15	2	7	Laptop	7CDP2	34	Bottom	99.49	0.125	-	1.554	1.146	1.005	0.748	1.339	0.840	1.503	
6425.00	95	802.11be	OFDM	320	11.00	10.86	-0.12	2	7	Laptop	7CDP2	34	Bottom	99.49	0.125	-	1.554	1.033	1.005	0.267	0.431	0.305	0.492	
6705.00	151	802.11ax	OFDM	80	20.00	19.16	0.08	2	7	Laptop	7CDP2	34	Bottom	99.49	0.125	1.490	1.554	1.213	1.005	0.696	1.319	0.739	1.400	
6705.00	151	802.11ax	OFDM	80	20.00	19.16	-0.15	8.94	7	Laptop	7CDP2	34	Bottom	99.49	0.125	0.834	1.554	1.213	1.005	0.285	0.540	0.309	0.585	
5985.00	7	802.11ax	OFDM	80	20.00	19.28	0.04	25	7	Tablet	7CDP2	34	Right	99.49	0.125	-	1.554	1.180	1.005	2.690	4.957	2.760	5.123	
6305.00	71	802.11ax	OFDM	80	20.00	19.41	-0.17	25	7	Tablet	7CDP2	34	Right	99.49	0.125	-	1.554	1.146	1.005	2.830	5.065	2.870	5.137	
6425.00	95	802.11be	OFDM	320	11.00	10.86	-0.12	25	7	Tablet	7CDP2	34	Right	99.49	0.125	-	1.554	1.033	1.005	0.310	0.500	0.332	0.536	
6705.00	151	802.11ax	OFDM	80	20.00	19.16	0.00	25	7	Tablet	7CDP2	34	Right	99.49	0.125	-	1.554	1.213	1.005	2.700	5.115	2.890	5.475	A61
6905.00	191	802.11be	OFDM	320	10.50	10.18	0.15	25	7	Tablet	7CDP2	34	Right	99.49	0.125	-	1.554	1.076	1.005	0.504	0.847	0.528	0.887	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m ² averaged over 4 cm ²														

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**Table 11-1
6 GHz WLAN Tablet IPD**

MEASUREMENT RESULTS																								
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Power Drift (dB)	Spacing (mm)	Antenna Config.	Accessory	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (V)	IPD (W/m ²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)	Plot #
7025.00	215	802.11ax	OFDM	80	9.25	7.75	0.13	2	6	N/A	7CDB2	34	Back	99.58	0.125	-	1.554	1.413	1.004	0.379	0.836	0.532	1.173	
7025.00	215	802.11ax	OFDM	80	9.25	7.75	0.12	2	6	N/A	7CDB2	34	Bottom	99.58	0.125	-	1.554	1.413	1.004	0.200	0.441	0.207	0.456	
5985.00	7	802.11ax	OFDM	80	8.25	7.20	0.12	2	6	N/A	7CDB2	34	Left	99.58	0.125	-	1.554	1.274	1.004	1.200	2.385	1.930	3.836	
6305.00	71	802.11ax	OFDM	80	8.25	7.10	0.00	2	6	N/A	7CDB2	34	Left	99.58	0.125	-	1.554	1.303	1.004	1.890	3.842	2.250	4.574	
6465.00	103	802.11ax	OFDM	80	8.25	7.18	-0.10	2	6	N/A	7CDB2	34	Left	99.58	0.125	-	1.554	1.279	1.004	3.250	6.485	3.560	7.104	A62
6465.00	103	802.11ax	OFDM	80	8.25	7.18	-0.06	2	6	Keyboard	7CDB2	34	Left	99.58	0.125	-	1.554	1.279	1.004	0.832	1.660	0.968	1.932	
6705.00	151	802.11ax	OFDM	80	8.50	7.25	0.07	2	6	N/A	7CDB2	34	Left	99.58	0.125	-	1.554	1.334	1.004	1.040	2.165	1.400	2.914	
7025.00	215	802.11ax	OFDM	80	9.25	7.75	-0.15	2	6	N/A	7CDB2	34	Left	99.58	0.125	1.880	1.554	1.413	1.004	2.410	5.313	2.900	6.393	
7025.00	215	802.11ax	OFDM	80	9.25	7.75	-0.14	8.54	6	N/A	7CDB2	34	Left	99.58	0.125	0.877	1.554	1.413	1.004	0.627	1.382	0.701	1.545	
6465.00	103	802.11ax	OFDM	80	9.25	7.66	-0.11	2	7	N/A	7CDB2	34	Back	99.49	0.125	-	1.554	1.442	1.005	0.510	1.149	0.752	1.694	
6465.00	103	802.11ax	OFDM	80	9.25	7.66	0.19	2	7	N/A	7CDB2	34	Bottom	99.49	0.125	-	1.554	1.442	1.005	0.194	0.437	0.213	0.480	
5985.00	7	802.11ax	OFDM	80	9.25	7.15	0.15	2	7	N/A	7CDB2	34	Right	99.49	0.125	-	1.554	1.622	1.005	0.779	1.973	1.190	3.014	
6305.00	71	802.11ax	OFDM	80	9.25	7.18	-0.19	2	7	N/A	7CDB2	34	Right	99.49	0.125	-	1.554	1.611	1.005	1.140	2.868	1.680	4.227	
6465.00	103	802.11ax	OFDM	80	9.25	7.66	-0.17	2	7	N/A	7CDB2	34	Right	99.49	0.125	0.764	1.554	1.442	1.005	1.210	2.725	1.570	3.536	
6465.00	103	802.11ax	OFDM	80	9.25	7.66	-0.18	2	7	Keyboard	7CDB2	34	Right	99.49	0.125	-	1.554	1.442	1.005	0.799	1.799	0.847	1.908	
6465.00	103	802.11ax	OFDM	80	9.25	7.66	-0.18	9.27	7	N/A	7CDB2	34	Right	99.49	0.125	0.713	1.554	1.442	1.005	0.616	1.387	0.645	1.453	
6705.00	151	802.11ax	OFDM	80	9.25	7.11	0.14	2	7	N/A	7CDB2	34	Right	99.49	0.125	-	1.554	1.637	1.005	1.070	2.736	1.900	4.858	
7025.00	215	802.11ax	OFDM	80	9.25	7.12	0.15	2	7	N/A	7CDB2	34	Right	99.49	0.125	-	1.554	1.633	1.005	0.690	1.760	0.863	2.201	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m ² averaged over 4 cm ²														

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Power Density General Notes

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ and $d=\lambda/5\text{mm}$ using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.
7. PTP-PR algorithm was used during psPD measurement and calculations.
8. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ 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

Table 12-1
Body SAR Measurement Variability Results

TABLET VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Test Position	Antenna Config	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	793.00	158600	NR Band 14, 10 MHz Bandwidth	DFT-S-OFDM, QPSK, 1 RB, 1 RB Offset	Left	4	0.0	0.858	0.850	1.01	N/A	N/A	N/A	N/A
1750	1745.00	349000	NR Band 66, 40 MHz Bandwidth	DFT-S-OFDM, QPSK, 108 RB, 154 RB Offset	Top	4	0.0	1.120	1.090	1.03	N/A	N/A	N/A	N/A
2450	2462.00	11	2.4 GHz WiFi/ IEEE 802.11b, 22 MHz Bandwidth	DSSS	Left	6	0.0	1.140	1.130	1.01	N/A	N/A	N/A	N/A
2600	2680.00	41490	LTE Band 41, 20 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Top	1	0.0	0.889	0.809	1.10	N/A	N/A	N/A	N/A
3500	3570.00	638000	NR Band 48, 100 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 104 RB Offset	Top	2	0.0	0.921	0.773	1.19	N/A	N/A	N/A	N/A
3700	3679.98	645332	NR Band 48, 100 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 1 RB Offset	Top	2	0.0	0.958	0.885	1.08	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band 77, 100 MHz Bandwidth	DFT-S-OFDM, QPSK, 135 RB, 69 RB Offset	Back	2	25.0	1.060	1.060	1.00	N/A	N/A	N/A	N/A
5250	5290.00	58	5 GHz WiFi/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Right	7	0.0	0.864	0.828	1.04	N/A	N/A	N/A	N/A
5600	5610.00	122	5 GHz WiFi/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Right	7	0.0	0.922	0.912	1.01	N/A	N/A	N/A	N/A
5750	5775.00	155	5 GHz WiFi/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Right	7	0.0	0.878	0.832	1.06	N/A	N/A	N/A	N/A
5850	5855.00	171	5 GHz WiFi/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Right	7	0.0	0.870	0.846	1.03	N/A	N/A	N/A	N/A
6500	6905.00	191	6 GHz WiFi/ IEEE 802.11ax, 320 MHz Bandwidth	OFDM	Right	7	0.0	0.873	0.864	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram							

12.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for 1g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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13 ADDITIONAL TESTING PER FCC GUIDANCE

13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

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

Table 13-1
LTE Band 41 Body Linearity Data - Laptop

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	27.0
Measured Output Power (dBm)	24.49	26.55
Measured SAR (W/kg)	0.255	0.265
Measured Power (mW)	281.19	451.86
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	177.99	195.65
% deviation from expected linearity		-5.46%

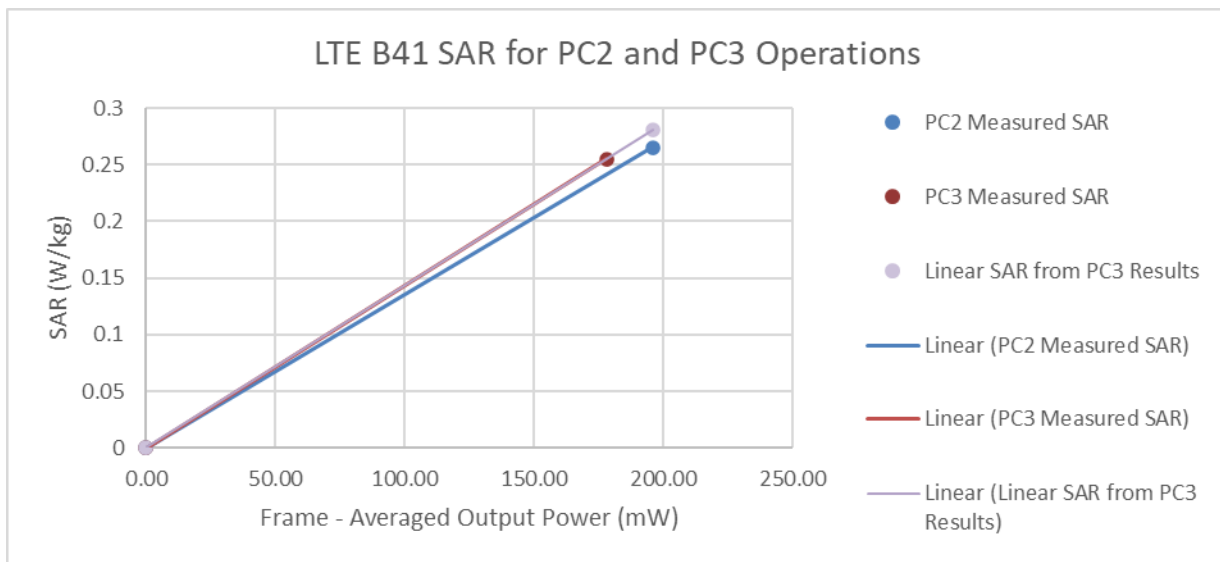


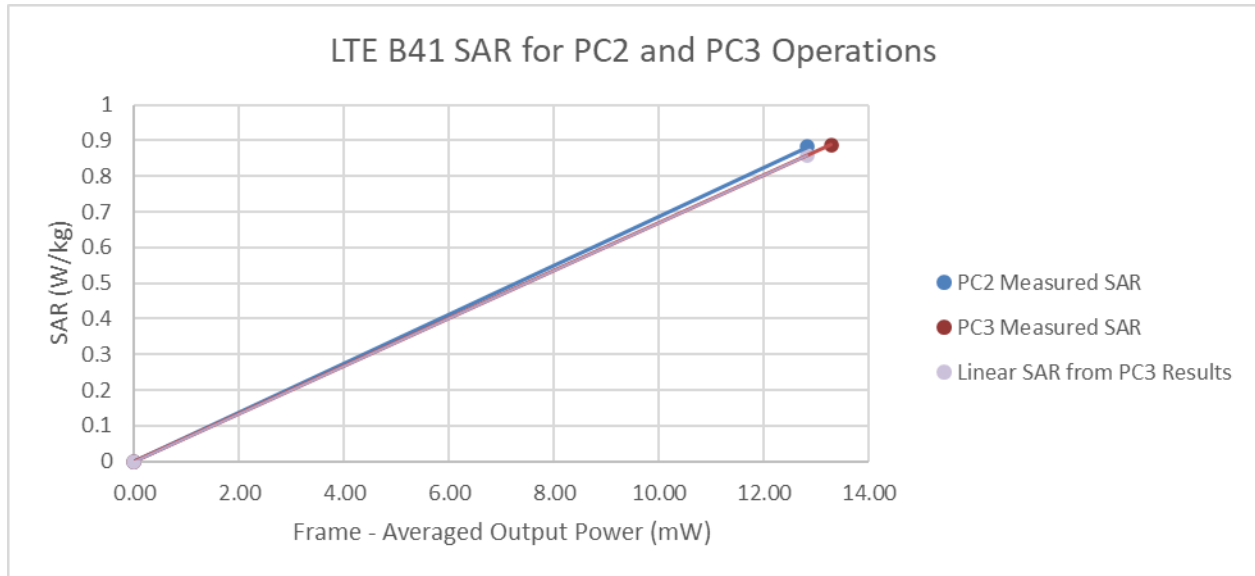
Figure 13-1
LTE Band 41 Body Linearity - Laptop

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**Table 13-2
LTE Band 41 Body Linearity Data - Tablet**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.50	15.10
Measured Output Power (dBm)	13.22	14.72
Measured SAR (W/kg)	0.889	0.883
Measured Power (mW)	20.99	29.65
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.29	12.84
% deviation from expected linearity		2.80%



**Figure 13-2
LTE Band 41 Body Linearity - Tablet**

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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY4511342
Agilent	E4438C	ESG Vector Signal Generator	10/10/2023	Annual	10/10/2024	MY42082659
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	11/14/2023	Annual	11/14/2024	US46240505
Agilent	N5182A	MXG Vector Signal Generator	7/4/2023	Annual	7/4/2024	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	7/21/2023	Annual	7/21/2024	US39170118
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/10/2024	Annual	1/10/2025	MY40001472
Agilent	E5515C	Wireless Communications Test Set	4/19/2022	Biennial	4/19/2024	084319591
Agilent	E5515C	Wireless Communications Test Set	1/10/2024	Annual	1/10/2025	MY50202130
Amplifier Research	15510G	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15510G	Amplifier	CBT	N/A	CBT	433971
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	MA2411B	Pulse Power Sensor	6/14/2023	Annual	6/14/2024	1911105
Anritsu	MA2411B	Pulse Power Sensor	6/15/2023	Annual	6/15/2024	1126066
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/5/2023	Annual	7/5/2024	626250000
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	12/15/2023	Annual	12/15/2024	6200901190
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/7/2023	Annual	7/7/2024	626204715
Anritsu	MT8000A	Radio Communication Test Station	9/4/2023	Annual	9/4/2024	6272337405
Anritsu	MT8000A	Radio Communication Test Station	10/17/2023	Annual	10/17/2024	6262036828
Anritsu	MT8000A	Radio Communication Test Station	6/15/2023	Annual	6/15/2024	6261914237
Anritsu	MA24106A	USB Power Sensor	4/21/2023	Annual	4/21/2024	1349503
Anritsu	MA24106A	USB Power Sensor	10/17/2023	Annual	10/17/2024	1248508
Anritsu	MA24106A	USB Power Sensor	7/4/2023	Annual	7/4/2024	1244512
Control Company	4040	Therm / Clock / Humidity Monitor	1/15/2024	Annual	1/15/2025	160574418
Mitutoyo	500-196-30	CD-6°ASX Ginch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keyight Technologies	N6705B	DC Power Analyzer	5/5/2021	Annual	5/5/2024	MYS3004059
Keyight Technologies	N9020A	MXA Signal Analyzer	10/17/2023	Annual	10/17/2024	MYS1240479
Keyight Technologies	N9020A	MXA Signal Analyzer	4/6/2023	Annual	4/6/2024	MY48010233
Agilent	N9020A	MXA Signal Analyzer	10/17/2023	Annual	10/17/2024	MYS1240479
Mini-Circuits	VL-F-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1200 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VL-F-6000+	Low Pass Filter DC to 6000 MHz	7/5/2023	Annual	7/5/2024	21624
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	7/5/2023	Annual	7/5/2024	2111
Seekonk	TSF-100	Torque Wrench	6/30/2023	Annual	6/30/2024	47639-29
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/14/2023	Annual	8/14/2024	161662
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	6/1/2023	Annual	6/1/2024	108843
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/4/2023	Annual	7/4/2024	166818
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/10/2023	Annual	8/10/2024	140144
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/13/2023	Annual	11/13/2024	1277
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/9/2023	Annual	5/9/2024	1070
SPEAG	DAK3-3.5	Portable Dielectric Assessment Kit	8/14/2023	Annual	8/14/2024	1041
SPEAG	MAA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1379
SPEAG	MAA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1243
SPEAG	D750V3	750 MHz SAR Dipole	5/11/2023	Annual	5/11/2024	1003
SPEAG	D835V2	835 MHz SAR Dipole	1/18/2024	Annual	1/18/2025	44132
SPEAG	D835V2	835 MHz SAR Dipole	4/13/2023	Annual	4/13/2024	44139
SPEAG	D835V2	835 MHz SAR Dipole	5/11/2023	Annual	5/11/2024	44180
SPEAG	D835V2	835 MHz SAR Dipole	10/19/2021	Triennial	10/19/2024	44133
SPEAG	D1750V2	1750 MHz SAR Dipole	10/12/2021	Triennial	10/12/2024	1150
SPEAG	D1750V2	1750 MHz SAR Dipole	1/18/2022	Triennial	1/18/2025	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	5/14/2021	Triennial	5/14/2024	1008
SPEAG	D1900V2	1900 MHz SAR Dipole	2/21/2022	Triennial	2/21/2025	54148
SPEAG	D1900V2	1900 MHz SAR Dipole	9/21/2021	Triennial	9/21/2024	54149
SPEAG	D2300V2	2300 MHz SAR Dipole	8/25/2022	Biennial	8/25/2024	1073
SPEAG	D2300V2	2300 MHz SAR Dipole	6/12/2023	Annual	6/12/2024	1117
SPEAG	D2450V2	2450 MHz SAR Dipole	11/25/2021	Triennial	11/25/2024	985
SPEAG	D2450V2	2450 MHz SAR Dipole	8/18/2021	Triennial	8/18/2024	719
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2023	Annual	5/11/2024	945
SPEAG	D2600V2	2600 MHz SAR Dipole	4/14/2021	Triennial	4/14/2024	1004
SPEAG	D2600V2	2600 MHz SAR Dipole	6/13/2022	Biennial	6/13/2024	1064
SPEAG	D3500V2	3500 MHz SAR Dipole	6/15/2023	Annual	6/15/2024	1127
SPEAG	D3500V2	3500 MHz SAR Dipole	1/10/2023	Biennial	1/10/2025	1097
SPEAG	D3500V2	3500 MHz SAR Dipole	1/12/2024	Annual	1/12/2025	1059
SPEAG	D3700V2	3700 MHz SAR Dipole	1/16/2023	Biennial	1/16/2025	1067
SPEAG	D3700V2	3700 MHz SAR Dipole	6/15/2023	Annual	6/15/2024	1096
SPEAG	D3700V2	3700 MHz SAR Dipole	1/9/2024	Annual	1/9/2025	1018
SPEAG	D3900V2	3900 MHz SAR Dipole	6/15/2023	Annual	6/15/2024	1074
SPEAG	D5GHV2	5 GHz SAR Dipole	1/17/2024	Annual	1/17/2025	1191
SPEAG	D5GHV2	5 GHz SAR Dipole	4/17/2023	Annual	4/17/2024	1237
SPEAG	D6.5GHV2	6.5 GHz SAR Dipole	1/10/2024	Annual	1/10/2025	1018
SPEAG	D6.5GHV2	6.5 GHz SAR Dipole	1/20/2024	Annual	1/20/2025	1020
SPEAG	DA4	Dasy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	1407
SPEAG	DA4	Dasy Data Acquisition Electronics	6/15/2023	Annual	6/15/2024	1334
SPEAG	DA4	Dasy Data Acquisition Electronics	1/18/2023	Annual	1/18/2024	1530
SPEAG	DA4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1638
SPEAG	DA4	Dasy Data Acquisition Electronics	5/11/2023	Annual	5/11/2024	728
SPEAG	DA4	Dasy Data Acquisition Electronics	2/16/2023	Annual	2/16/2024	1645
SPEAG	DA4	Dasy Data Acquisition Electronics	1/9/2024	Annual	1/9/2025	1533
SPEAG	DA4	Dasy Data Acquisition Electronics	1/16/2024	Annual	1/16/2025	1466
SPEAG	DA4	Dasy Data Acquisition Electronics	1/16/2024	Annual	1/16/2025	1530
SPEAG	DA4	Dasy Data Acquisition Electronics	5/16/2023	Annual	5/16/2024	1678
SPEAG	DA4	Dasy Data Acquisition Electronics	9/6/2023	Annual	9/6/2024	1364
SPEAG	DA4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1322
SPEAG	EX30V4	SAR Probe	4/14/2023	Annual	4/14/2024	7659
SPEAG	EX30V4	SAR Probe	6/15/2023	Annual	6/15/2024	7409
SPEAG	EX30V4	SAR Probe	1/17/2024	Annual	1/17/2025	7713
SPEAG	EX30V4	SAR Probe	2/10/2023	Annual	2/10/2024	7640
SPEAG	EX30V4	SAR Probe	1/16/2024	Annual	1/16/2025	7565
SPEAG	EX30V4	SAR Probe	9/12/2023	Annual	9/12/2024	7558
SPEAG	EX30V4	SAR Probe	10/23/2023	Annual	10/23/2024	7547
SPEAG	EX30V4	SAR Probe	5/9/2023	Annual	5/9/2024	7660
SPEAG	EX30V4	SAR Probe	6/14/2023	Annual	6/14/2024	7661
SPEAG	EX30V4	SAR Probe	1/11/2024	Annual	1/11/2025	7803
SPEAG	EX30V4	SAR Probe	7/7/2023	Annual	7/7/2024	7410

Note: 1) All equipment was used solely within its respective calibration period. 2) CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

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15 MEASUREMENT UNCERTAINTIES

Applicable for SAR Measurements < 6 GHz:

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

Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	f(d,k) Div.	c _i 1gm	c _i 10 gms	c x f/e u _i (± %)	c x g/e u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	RSS						13.8	13.6	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2						27.6	27.1	

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

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Applicable for Power Density Measurements:

a	b	c	d	e	f = c x f/e	g
Uncertainty Component	Unc. (± dB)	Prob. Dist.	Div.	c _i	u _i (± dB)	v _i
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor Mechanical Offset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedance Dependence	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related						
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)	RSS				1.34	∞
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2					

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16 CONCLUSION

16.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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