



RF EXPOSURE PART 1 TEST REPORT

Applicant Name:

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

Date of Testing:

06/20/2025 – 07/09/2025

Test Site/Location:

Element, Columbia, MD, USA

Document Serial No.:

1M2505130048-11.A3L

FCC ID:

A3LSMX930

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Computing Device

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-X930

Equipment Class	Band & Mode	Tx Frequency	SAR	
			1g Laptop (W/kg)	1g Tablet (W/kg)
DTS	2.4 GHz WIFI	2412 - 2472 MHz	0.14	1.01
NII	5 GHz WIFI	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz	0.31	1.14
6CD	6 GHz WIFI	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	0.15	0.64
DSS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.16	0.71
Simultaneous SAR per KDB 690783 D01v01r03:			0.53	1.59

Equipment Class	Band & Mode	Tx Frequency	APD (W/m ²)		Reported PI (W/m ²)
			1g Laptop (W/kg)	1g Tablet (W/kg)	
6CD	6 GHz WIFI	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	1.03	3.57	1.2

Overall SAR Summary			
RF Exposure Position	Laptop	Tablet	Simultaneous Transmission
SAR (W/kg)	0.38	1.14	1.59
Distance (mm)	0	0	N/A

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 2.7 of this report; for North American frequency bands only.

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



RJ Ortanez
Executive Vice President



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

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1 TEST LABORATORY INFORMATION

1.1 Introduction

This test report for device subject to testing at an accredited testing laboratory has been generated by the testing laboratory that tested the device. Detailed location and accredited information regarding the testing laboratories are provided below.

1.2 Test Laboratories Information

1.2.1 Testing Laboratory 1

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC
Test Lab Location	7185 Oakland Mills Road, Columbia, MD 21046, United States Tel. +1.410.290.6652 / Fax +1.410.381.1520
Accreditation Info.	Designation Number (FCC): US1113
	Lab Code. (ISED): 2451B
	CAB Identifier (NIST): US0110
	ISO/IEC 17025 (A2LA): CERT #2041.01
	 
Measurement System No.	C, G, N, O, R, S

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2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
2.4GHz WIFI	Data	2412 - 2472 MHz
5 GHz WIFI	Data	U-NII-1: 5180 - 5240 MHz
	Data	U-NII-2A: 5260 - 5320 MHz
	Data	U-NII-2C: 5500 - 5720 MHz
	Data	U-NII-3: 5745 - 5825 MHz
	Data	U-NII-4: 5845 - 5885 MHz
6 GHZ WIFI	Data	U-NII-5: 5935 - 6415 MHz
	Data	U-NII-6: 6435 - 6515 MHz
	Data	U-NII-7: 6535 - 6875 MHz
	Data	U-NII-8: 6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz

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2.2 Power Reduction for SAR

This device uses a power reduction mechanism for SAR compliance. The power reduction mechanism is activated when the device is used in close proximity to the user's body. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device. Detailed descriptions of the power reduction mechanism are included in the operational description.

2.3 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 RU operations can be found in 802.11ax/be RU SAR Exclusion Appendix.

2.3.1 2.4 GHz SISO/MIMO WLAN Output Power

The table below is applicable in the following conditions:

- Maximum Power

Band	IEEE 802.11ax/be Modulated Frame Output Power (in dBm)																											
	SISO														SISO in MIMO													
	Antenna WiFi 0							Antenna WiFi 1							Antenna WiFi 0							Antenna WiFi 1						
	b	g	n	ac	ax (RU)	ax (RU)	ax (RU)	b	g	n	ac	ax (RU)	ax (RU)	ax (RU)	b	g	n	ac	ax (RU)	ax (RU)	ax (RU)	b	g	n	ac	ax (RU)	ax (RU)	ax (RU)
Maximum / Nominal Power	Max	Nom	Max	Nom	Max	Nom	Max	Max	Nom	Max	Nom	Max	Nom	Max	Max	Nom	Max	Nom	Max	Nom	Max	Max	Nom	Max	Nom	Max	Nom	Max
2.4 GHz WLAN	19.0	18.0	18.0	17.0	18.0	17.0	16.0	15.0	18.0	17.0	16.0	17.0	19.0	18.0	18.0	17.0	16.0	15.0	18.0	17.0	16.0	19.0	18.0	18.0	17.0	16.0	15.0	18.0
ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0
ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0

Reduced Power Level 1 - The table below is applicable in the following conditions:

- Grip sensor Active

Band	IEEE 802.11ax/be Modulated Frame Output Power (in dBm)																											
	SISO														SISO in MIMO													
	Antenna WiFi 0							Antenna WiFi 1							Antenna WiFi 0							Antenna WiFi 1						
	b	g	n	ac	ax (RU)	ax (RU)	ax (RU)	b	g	n	ac	ax (RU)	ax (RU)	ax (RU)	b	g	n	ac	ax (RU)	ax (RU)	ax (RU)	b	g	n	ac	ax (RU)	ax (RU)	ax (RU)
Maximum / Nominal Power	Max	Nom	Max	Nom	Max	Nom	Max	Max	Nom	Max	Nom	Max	Nom	Max	Max	Nom	Max	Nom	Max	Nom	Max	Max	Nom	Max	Nom	Max	Nom	Max
2.4 GHz WLAN	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0
ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0

Reduced Power Level 2 - The table below is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN

IEEE 802.11ax/be Modulated Frame Output Power (in dBm)																																											
Band	SISO														SISO in MIMO																												
	Antenna WiFi 0														Antenna WiFi 1														MIMO														
	b		g		n		ac		ax (SU)		be (SU)		b		g		n		ac		ax (SU)		be (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SGM)		ac (CDD + STBC, SGM)		ax (SU) (CDD + STBC, SGM)		be (SU) (CDD + STBC, SGM)								
	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	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom								
2.4 GHz WLAN	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5								
	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0								
	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0	2.0	ch. 13: 3.0								

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2.3.2 5 GHz SISO/MIMO WLAN Output Power

The table below is applicable in the following conditions:

- Maximum Power

Mode	Band	IEEE 802.11 a/b/g Modulated Frame Output Power (in dBm)																											
		SISO										SISO										MIMO							
		Antenna WiFi 0					Antenna WiFi 1					Antenna WiFi 0					Antenna WiFi 1					a		n		ac		aa (SU)	
Maximum / Nominal Power		Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm
5 GHz WiFi (20MHz BW)	UNII-1	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0
	UNII-2A	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0
	UNII-2C	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0
	UNII-3	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0
	UNII-4	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	14.0
5 GHz WiFi (40MHz BW)	UNII-1			17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0			17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0			17.0	16.0	17.0	16.0	15.0	14.0
	UNII-2A			17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0			17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0			17.0	16.0	17.0	16.0	15.0	14.0
	UNII-2C			17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0			17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0			17.0	16.0	17.0	16.0	15.0	14.0
	UNII-3			17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0			17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0			17.0	16.0	17.0	16.0	15.0	14.0
	UNII-4			17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0			17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0			17.0	16.0	17.0	16.0	15.0	14.0
5 GHz WiFi (80MHz BW)	UNII-1					16.0	15.0	15.0	14.0	15.0	14.0					16.0	15.0	15.0	14.0	15.0	14.0					16.0	15.0	15.0	14.0
	UNII-2A					16.0	15.0	15.0	14.0	15.0	14.0					16.0	15.0	15.0	14.0	15.0	14.0					16.0	15.0	15.0	14.0
	UNII-2C					16.0	15.0	15.0	14.0	15.0	14.0					16.0	15.0	15.0	14.0	15.0	14.0					16.0	15.0	15.0	14.0
	UNII-3					16.0	15.0	15.0	14.0	15.0	14.0					16.0	15.0	15.0	14.0	15.0	14.0					16.0	15.0	15.0	14.0
	UNII-4					16.0	15.0	15.0	14.0	15.0	14.0					16.0	15.0	15.0	14.0	15.0	14.0					16.0	15.0	15.0	14.0
5 GHz WiFi (160MHz BW)	UNII-1/2A					15.0	14.0	14.0	13.0	14.0	13.0					15.0	14.0	14.0	13.0	14.0	13.0					15.0	14.0	14.0	13.0
	UNII-2C					13.0	12.0	12.0	11.0	12.0	11.0					13.0	12.0	12.0	11.0	12.0	11.0					13.0	12.0	12.0	11.0
	UNII-3/4					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0
	UNII-3/4					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0

Reduced Power Level 1 - The table below is applicable in the following conditions:

- Grip sensor Active

Mode		Band	IEEE 802.11 a/b/g Modulated Frame Output Power (in dbm)																												
			SISO										SISO										SISO IN MIMO								
			Antenna WIFI 0										Antenna WIFI 1										MIMO								
		a		n		ac		aa (SU)		ba (SU)		a		n		ac		aa (SU)		ba (SU)		a (CDD + STBC, SGM)		n (CDD + STBC, SGM)		ac (CDD + STBC, SGM)		aa (SU) (CDD + STBC, SGM)		ba (SU) (CDD + STBC, SGM)	
Maximum / Nominal Power			Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	
5 GHz WIFI (20MHz BW)	UNII-1	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	
	UNII-2A	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	
	UNII-2C	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	
	UNII-3	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	
	UNII-4	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5	9.5	
5 GHz WIFI (40MHz BW)	UNII-1			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5
	UNII-2A			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5
	UNII-2C			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5
	UNII-3			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5
	UNII-4			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5			9.5	8.5	9.5	8.5	9.5	8.5	9.5	8.5
5 GHz WIFI (80MHz BW)	UNII-1					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5
	UNII-2A					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5
	UNII-2C					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5
	UNII-3					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5
	UNII-4					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5
5 GHz WIFI (160MHz BW)	UNII-1/2A					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5
	UNII-2C					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5
	UNII-3/4					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5					9.5	8.5	9.5	8.5	9.5	8.5

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Reduced Power Level 2 - The table below is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN

Mode	Band	IEEE 802.11 a/b/g Modulated/Frame Output Power (in dBm)																													
		SISO										SISO										SISO IN MIMO									
		Antenna WiFi 0										Antenna WiFi 1										MIMO									
a		n		ac		aa (SU)		ba (SU)		a		n		ac		aa (SU)		ba (SU)		a (CDD + STBC)		n (CDD + STBC, SDM)		aa (SU) (CDD + STBC, SDM)		ba (SU) (CDD + STBC, SDM)					
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.		
5 GHz WiFi (20MHz BW)	UNII-1	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0		
	UNII-2A	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0		
	UNII-2C	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0		
	UNII-3	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0		
	UNII-4	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0		
5 GHz WiFi (40MHz BW)	UNII-1					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
	UNII-2A					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
	UNII-2C					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
	UNII-3					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
	UNII-4					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
5 GHz WiFi (80MHz BW)	UNII-1					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
	UNII-2A					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
	UNII-2C					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
	UNII-3					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
	UNII-4					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
5 GHz WiFi (160MHz BW)	UNII-1/2A					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
	UNII-2C					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0
	UNII-3/4					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0	8.0	7.0

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2.3.3 6 GHz SISO/MIMO WLAN Output Power

The table below is applicable in the following conditions:

- Maximum Power

Mode	Band	IEEE 802.11ax/be Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						Antenna WIFI 0 & Antenna WIFI 1 in SISO and MIMO					
		Antenna WIFI 0						Antenna WIFI 1											
a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)			
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - LPI	UNII-5	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-6	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-7	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-8	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
6 GHz WIFI (40MHz BW) - LPI	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-6			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-8			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WIFI (80MHz BW) - LPI	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-6			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-8			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WIFI (160MHz BW) - LPI	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-6			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WIFI (320MHz BW) - LPI	UNII-5					10.0	9.0					10.0	9.0					10.0	9.0
	UNII-6					10.0	9.0					10.0	9.0					10.0	9.0
	UNII-7					10.0	9.0					10.0	9.0					10.0	9.0
	UNII-8					10.0	9.0					10.0	9.0					10.0	9.0
Mode	Band	IEEE 802.11ax/be Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						Antenna WIFI 0 & Antenna WIFI 1 in SISO and MIMO					
		Antenna WIFI 0						Antenna WIFI 1											
a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)			
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - SP	UNII-5	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-7	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
6 GHz WIFI (40MHz BW) - SP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WIFI (80MHz BW) - SP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WIFI (160MHz BW) - SP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WIFI (320MHz BW) - SP	UNII-5					10.0	9.0					10.0	9.0					10.0	9.0
	UNII-7					10.0	9.0					10.0	9.0					10.0	9.0

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Mode	Band	IEEE 802.11ax/be Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						Antenna WIFI 0 & Antenna WIFI 1 in SISO and MIMO					
		Antenna WIFI 0						Antenna WIFI 1											
a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)			
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - VLP	UNII-5	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-7	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
6 GHz WIFI (20MHz BW) - VLP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0		
6 GHz WIFI (80MHz BW) - VLP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0		
6 GHz WIFI (160MHz BW) - VLP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0		
6 GHz WIFI (320MHz BW) - VLP	UNII-5					10.0	9.0					10.0	9.0					10.0	9.0
	UNII-7					10.0	9.0					10.0	9.0					10.0	9.0

Reduced Power Level 1 - The table below is applicable in the following conditions:

- Grip Sensor Active
- Simultaneous conditions with 2.4 GHz WLAN

Mode	Band	IEEE 802.11ax/be Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						Antenna WIFI 0 & Antenna WIFI 1 in SISO and MIMO					
		Antenna WIFI 0						Antenna WIFI 1											
a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)			
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - LPI	UNII-5	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	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	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNII-7	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNII-8	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
6 GHz WIFI (40MHz BW) - LPI	UNII-5			8.0	7.0	8.0	7.0			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			8.0	7.0		
	UNII-7			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
	UNII-8			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
6 GHz WIFI (80MHz BW) - LPI	UNII-5			8.0	7.0	8.0	7.0			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			8.0	7.0		
	UNII-7			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
	UNII-8			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
6 GHz WIFI (160MHz BW) - LPI	UNII-5			8.0	7.0	8.0	7.0			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			8.0	7.0		
	UNII-7			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
	UNII-8			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
6 GHz WIFI (320MHz BW) - LPI	UNII-5					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
	UNII-7					8.0	7.0					8.0	7.0					8.0	7.0
	UNII-8					8.0	7.0					8.0	7.0					8.0	7.0

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Mode	Band	IEEE 802.11ax/be Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						Antenna WIFI 0 & Antenna WIFI 1 in SISO and MIMO					
		Antenna WIFI 0						Antenna WIFI 1											
a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)			
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - SP	UNII-5	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNII-7	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
6 GHz WIFI (40MHz BW) - SP	UNII-5			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-7			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
6 GHz WIFI (80MHz BW) - SP	UNII-5			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-7			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
6 GHz WIFI (160MHz BW) - SP	UNII-5			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-7			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
6 GHz WIFI (320MHz BW) - SP	UNII-5					8.0	7.0					8.0	7.0					8.0	7.0
	UNII-7					8.0	7.0					8.0	7.0					8.0	7.0

Mode	Band	IEEE 802.11ax/be Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						Antenna WIFI 0 & Antenna WIFI 1 in SISO and MIMO					
		Antenna WIFI 0						Antenna WIFI 1											
a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)			
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - VLP	UNII-5	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNII-7	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
6 GHz WIFI (40MHz BW) - VLP	UNII-5			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-7			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
6 GHz WIFI (80MHz BW) - VLP	UNII-5			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-7			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
6 GHz WIFI (160MHz BW) - VLP	UNII-5			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-7			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0		
6 GHz WIFI (320MHz BW) - VLP	UNII-5					8.0	7.0					8.0	7.0					8.0	7.0
	UNII-7					8.0	7.0					8.0	7.0					8.0	7.0

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2.3.4 2.4 GHz Bluetooth Output Power

The table below is applicable in the following conditions:

- Maximum

Mode	Data Rate	Modulated/Frame Output Power (in dBm)			
		Single Antenna			
		Antenna WIFI 0		Antenna WIFI 1	
Maximum / Nominal Power		Max	Nom.	Max	Nom.
Bluetooth	1Mbps	18.5	17.5	17.5	16.5
Bluetooth EDR	2Mbps	15.0	14.0	14.0	13.0
Bluetooth EDR	3Mbps	15.0	14.0	14.0	13.0
Bluetooth LE	1Mbps	15.5	14.5	15.0	14.0
Bluetooth LE	2Mbps	16.0	15.0	16.0	15.0
Bluetooth LE	125kbps	13.5	12.5	13.0	12.0
Bluetooth LE	500kbps	13.5	12.5	13.0	12.0

Reduced Power Level 1 - The table below is applicable in the following conditions:

- Grip Sensor Active

Mode	Data Rate	Modulated/Frame Output Power (in dBm)			
		Single Antenna			
		Antenna WIFI 0		Antenna WIFI 1	
Maximum / Nominal Power		Max	Nom.	Max	Nom.
Bluetooth	1Mbps	11.0	10.0	11.0	10.0
Bluetooth EDR	2Mbps	11.0	10.0	11.0	10.0
Bluetooth EDR	3Mbps	11.0	10.0	11.0	10.0
Bluetooth LE	1Mbps	11.0	10.0	11.0	10.0
Bluetooth LE	2Mbps	11.0	10.0	11.0	10.0
Bluetooth LE	125kbps	11.0	10.0	11.0	10.0
Bluetooth LE	500kbps	11.0	10.0	11.0	10.0

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2.4 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 2-1
Device Edges/Sides for SAR Testing Tablet Mode

Antenna	Back	Front	Top	Bottom	Right	Left
WIFI 0	Yes	No	Yes	Yes	Yes	Yes
WIFI 1	Yes	No	Yes	Yes	Yes	Yes
MIMO	Yes	No	Yes	Yes	Yes	Yes

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

Antenna	Back	Front	Top	Bottom	Right	Left
WIFI 0	No	No	No	Yes	No	No
WIFI 1	No	No	No	Yes	No	No
MIMO	No	No	No	Yes	No	No

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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2.5 Simultaneous Transmission Capabilities

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

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

**Table 2-3
Simultaneous Transmission Scenarios**

No.	Capable Transmit Configuration	Tablet/Laptop	Notes
1	2.4 GHz Bluetooth Ant WIFI 0 + 6 GHz WLAN MIMO	Yes^	^ Bluetooth Tethering is considered
2	2.4 GHz Bluetooth Ant WIFI 0 + 5 GHz WLAN MIMO	Yes^	^ Bluetooth Tethering is considered
3	2.4 GHz Bluetooth Ant WIFI 1 + 6 GHz WLAN MIMO	Yes^	^ Bluetooth Tethering is considered
4	2.4 GHz Bluetooth Ant WIFI 1 + 5 GHz WLAN MIMO	Yes^	^ Bluetooth Tethering is considered
5	2.4 GHz WLAN MIMO	Yes	
6	5 GHz WLAN MIMO	Yes	
7	6 GHz WLAN MIMO	Yes	
8	2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	
9	2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	
10	2.4 GHz WLAN Ant WIFI 1 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant WIFI 0	Yes^	^ Bluetooth Tethering is considered
11	2.4 GHz WLAN Ant WIFI 1 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant WIFI 0	Yes^	^ Bluetooth Tethering is considered
12	2.4 GHz WLAN Ant WIFI 1 + 2.4 GHz Bluetooth Ant WIFI 0	Yes^	^ Bluetooth Tethering is considered

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. 2.4 GHz WLAN Antenna WIFI 0 and 2.4 GHz Bluetooth Ant WIFI 0 share the same antenna path and cannot transmit simultaneously.
4. 2.4 GHz WLAN Antenna WIFI 1 and 2.4 GHz Bluetooth Ant WIFI 1 share the same antenna path and cannot transmit simultaneously.
5. 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.

2.6 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 6 GHz
- b) Up to 160 MHz Bandwidth only for 5 GHz
- c) Up to 40 MHz Bandwidth only for 2.4 GHz
- d) 2 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5/6 GHz
- g) MU-MIMO UL Operations are not supported

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Per FCC Guidance, 802.11ax RU was considered a higher order 802.11 mode when compared to a/b/g/n/ac 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: 1M2505130048-04.A3L, 1M2505130048-06.A3L, 1M2505130048-08.A3L for 802.11ax 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.

When 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.

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 $\geq$ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%.

2.7 Guidance Applied

- IEEE 1528-2013
- 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)
- 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)

2.8 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 10 and Section 11.

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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.

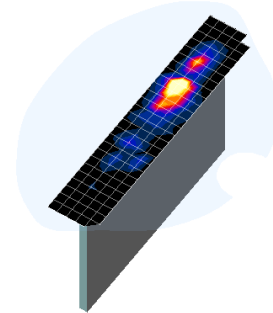


Figure 4-1
Sample SAR Area Scan

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		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 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 per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, for devices containing a keyboard, SAR is required for the bottom surface. Although the keyboard is not an in-box accessory, it was tested as an outbox accessory to conservatively assess SAR compliance. Per FCC KDB Publication 616217 D04v01r02, for devices with overall dimensions >200mm, the back surface and edges of the device should be tested for SAR compliance with the device 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 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. Please see the exact antenna locations shown in the Technical Descriptions document.

5.3 Proximity Sensor Considerations

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

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

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

5.4 SAR Evaluation with Detachable Keyboard

The DUT supports an after-market detachable keyboard accessory. SAR testing was conducted in accordance with FCC KDB 616217 D04 and 47 CFR §2.1093, including both standalone tablet mode and the keyboard-attached (360° folded) configuration.

The device was fully tested in standalone mode at 0 mm and trigger-based separation distances across all five surfaces. Based on these results, the worst-case SAR surface was identified for each band and configuration.

To assess RF exposure from the keyboard, SAR was re-evaluated at the worst-case surface with the keyboard attached. All measured values in this configuration were lower than those in standalone mode. Specifically, the average reduction in peak SAR was 3.18 dB. The second-highest SAR values followed the same trend, with an average reduction of 1.82 dB.

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This test methodology is based on engineering judgment supported by structural RF design and measured SAR data and is aligned with SAR reduction principles outlined in IEEE 1528-2013 Annex I.4.2 and FCC KDB 648474 D04 Section 8. Key considerations include the passive nature of the keyboard, which contains no active RF circuitry; the increased device thickness when the keyboard is attached, which results in greater separation between the radiating elements and the user; the antenna's fixed location within the display section, physically decoupled from the keyboard; and the antenna-to-device area ratio and structural asymmetry, which minimize coupling potential and reduce the likelihood of the worst-case SAR surface shifting due to keyboard attachment.

Based on these factors, no additional SAR testing was required for other surfaces in the keyboard-attached configuration.

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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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6.3 RF Exposure Limits for Frequencies above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m^2 or mW/cm^2 .

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm^2 per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Table 6-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits		
Frequency Range [MHz]	Power Density [mW/cm^2]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5.0	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1.0	30

Note: 1.0 mW/cm^2 is 10 W/m^2

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7 FCC MEASUREMENT PROCEDURES

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

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

7.2 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.

7.2.1 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.

7.2.2 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.

7.2.3 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.

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7.2.4 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.

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.

7.2.5 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.

7.2.6 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.

7.2.7 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

8.1 WLAN Conducted Powers

Table 8-1
2.4 GHz WLAN Maximum Average RF Power – Antenna WIFI 0

2.4GHz WIFI (20MHz 802.11b SISO WIFI 0)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	18.74
2437	6		18.25
2462	11		18.70

Table 8-2
2.4 GHz WLAN Reduced Average RF Power at Reduced Power Level 1 – Antenna WIFI 0

2.4GHz WIFI (20MHz 802.11b SISO WIFI 0)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.65
2437	6		13.72
2462	11		13.78

Table 8-3
2.4 GHz WLAN Maximum Average RF Power – Antenna WIFI 1

2.4GHz WIFI (20MHz 802.11b SISO WIFI 1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	18.46
2437	6		18.57
2462	11		18.61

Table 8-4
2.4 GHz WLAN Reduced Average RF Power at Reduced Power Level 1 – Antenna WIFI 1

2.4GHz WIFI (20MHz 802.11b SISO WIFI 1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.79
2437	6		13.83
2462	11		13.51

Table 8-5
2.4 GHz WLAN Reduced Average RF Power at Reduced Power Level 2 – Antenna WIFI 1

2.4GHz WIFI (20MHz 802.11b SISO WIFI 1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.70
2437	6		11.75
2462	11		11.66

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Table 8-6
2.4 GHz WLAN Maximum Average RF Power – MIMO

Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			WIFI 0	WIFI 1	MIMO
2412	1	Average	18.77	18.66	21.73
2437	6		18.28	18.54	21.42
2462	11		18.69	18.55	21.63

Table 8-7
2.4 GHz WLAN Reduced Average RF Power at Reduced Power Level 1 – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			WIFI 0	WIFI 1	MIMO
2412	1	Average	13.52	13.74	16.64
2437	6		13.58	13.65	16.63
2462	11		13.57	13.50	16.55

Table 8-8
2.4 GHz WLAN Reduced Average RF Power at Reduced Power Level 2 – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			WIFI 0	WIFI 1	MIMO
2412	1	Average	11.60	11.79	14.71
2437	6		11.85	11.68	14.78
2462	11		12.06	11.80	14.94

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Table 8-9
5 GHz WLAN Maximum Average RF Power – Antenna WIFI 0

5GHz WIFI (20MHz 802.11a SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	17.59
	5200	40	17.23
	5220	44	17.36
	5240	48	17.44
UNII-2A	5260	52	17.32
	5280	56	17.30
	5300	60	17.03
	5320	64	17.16
UNII-2C	5500	100	17.09
	5600	120	17.30
	5620	124	17.47
	5720	144	17.16
UNII-3	5745	149	17.46
	5785	157	17.23
	5825	165	17.08
UNII-4	5845	169	17.15
	5865	173	17.17
	5885	177	17.05

Table 8-10
5 GHz WLAN Reduced Average RF Power at Reduced Power Level 1 – Antenna WIFI 0

5GHz WIFI (80MHz 802.11ac SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.90
UNII-2A	5290	58	8.67
UNII-2C	5530	106	8.92
	5610	122	8.50
	5690	138	8.70
UNII-3	5775	155	8.82
UNII-4	5885	171	8.77

Table 8-11
5 GHz WLAN Reduced Average RF Power at Reduced Power Level 2 – Antenna WIFI 0

5GHz WIFI (80MHz 802.11ac SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.06
UNII-2A	5290	58	7.11
UNII-2C	5530	106	7.11
	5610	122	7.18
	5690	138	7.40
UNII-3	5775	155	7.25
UNII-4	5885	171	7.03

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Table 8-12
5 GHz WLAN Maximum Average RF Power – Antenna WIFI 1

5GHz WIFI (20MHz 802.11a SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	17.09
	5200	40	17.41
	5220	44	17.06
	5240	48	17.06
UNII-2A	5260	52	17.00
	5280	56	17.16
	5300	60	16.70
	5320	64	16.90
UNII-2C	5500	100	17.00
	5600	120	16.90
	5620	124	16.85
	5720	144	17.16
UNII-3	5745	149	16.89
	5785	157	17.16
	5825	165	17.00
UNII-4	5845	169	17.24
	5865	173	17.28
	5885	177	17.25

Table 8-13
5 GHz WLAN Reduced Average RF Power at Reduced Power Level 1 – Antenna WIFI 1

5GHz WIFI (80MHz 802.11ac SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.26
UNII-2A	5290	58	8.74
UNII-2C	5530	106	8.76
	5610	122	8.50
	5690	138	9.03
UNII-3	5775	155	8.79
UNII-4	5885	171	8.50

Table 8-14
5GHz WLAN Reduced Average RF Power with at Reduced Power Level 2 – Antenna WIFI 1

5GHz WIFI (80MHz 802.11ac SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.01
UNII-2A	5290	58	6.32
UNII-2C	5530	106	6.05
	5610	122	6.45
	5690	138	6.23
UNII-3	5775	155	6.07
UNII-4	5885	171	6.05

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Table 8-15
5 GHz WLAN Maximum Average RF Power – MIMO
5GHz WIFI (20MHz 802.11a MIMO)

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			WIFI 0	WIFI 1	MIMO
UNII-1	5180	36	17.59	17.06	20.34
	5200	40	17.77	17.30	20.55
	5220	44	17.99	17.32	20.68
	5240	48	17.74	16.85	20.33
UNII-2A	5260	52	17.39	17.03	20.22
	5280	56	17.49	17.03	20.28
	5300	60	17.86	17.22	20.56
	5320	64	17.85	17.02	20.47
UNII-2C	5500	100	17.70	17.30	20.51
	5600	120	17.22	17.02	20.13
	5620	124	17.62	17.01	20.34
	5720	144	17.99	16.98	20.52
UNII-3	5745	149	17.98	17.11	20.58
	5785	157	17.69	17.40	20.56
	5825	165	17.74	17.34	20.55
UNII-4	5845	169	17.40	17.35	20.39
	5865	173	17.35	17.23	20.30
	5885	177	17.32	17.16	20.25

Table 8-16
5 GHz WLAN Reduced Average RF Power at Reduced Power Level 1 – MIMO
5GHz WIFI (80MHz 802.11ac MIMO)

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			WIFI 0	WIFI 1	MIMO
UNII-1	5210	42	8.97	8.50	11.75
UNII-2A	5290	58	8.92	8.25	11.61
UNII-2C	5530	106	8.75	8.30	11.54
	5610	122	8.70	8.85	11.79
	5690	138	9.00	8.90	11.96
UNII-3	5775	155	8.62	8.60	11.62
UNII-4	5885	171	9.11	9.00	12.07

Table 8-17
5 GHz WLAN Reduced Average RF Power at Reduced Power Level 2 – MIMO
5GHz WIFI (80MHz 802.11ac MIMO)

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			WIFI 0	WIFI 1	MIMO
UNII-1	5210	42	7.80	7.03	10.44
UNII-2A	5290	58	6.63	6.52	9.59
UNII-2C	5530	106	7.09	6.14	9.65
	5610	122	7.14	6.63	9.90
	5690	138	7.45	6.28	9.91
UNII-3	5775	155	7.06	6.14	9.63
UNII-4	5885	171	7.03	6.09	9.60

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Table 8-18
6 GHz WLAN Maximum Average RF Power – Antenna WIFI 0

6GHz WIFI (160MHz 802.11ax SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	9.98
	6345	79	9.10
UNII-6	6505	111	9.09
UNII-7	6665	143	9.91
UNII-8	6985	207	8.35

Table 8-19
6 GHz WLAN Reduced Average RF Power at Reduced Level 1 – Antenna WIFI 0

6GHz WIFI (160MHz 802.11ax SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	6.56
	6345	79	7.02
UNII-6	6505	111	7.03
UNII-7	6665	143	6.35
UNII-8	6985	207	6.50

Table 8-20
6 GHz WLAN Maximum Average RF Power – Antenna WIFI 1

6GHz WIFI (160MHz 802.11ax SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	9.53
	6345	79	8.77
UNII-6	6505	111	9.75
UNII-7	6665	143	8.01
UNII-8	6985	307	9.08

Table 8-21
6 GHz WLAN Reduced Average RF Power at Reduced Level 1 – Antenna WIFI 1

6GHz WIFI (160MHz 802.11ax SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	6.01
	6345	79	6.82
UNII-6	6505	111	7.20
UNII-7	6665	143	6.03
UNII-8	6985	207	6.11

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Table 8-22
6 GHz WLAN Maximum Average RF Power – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			WIFI 0	WIFI 1	MIMO
UNII-5	6025	15	9.94	8.47	12.28
	6345	79	9.80	8.92	12.39
UNII-6	6505	111	9.65	9.54	12.61
UNII-7	6665	143	9.88	8.01	12.06
UNII-8	6985	207	9.20	8.80	12.01

Table 8-23
6 GHz WLAN Reduced Average RF Power at Reduced Power Level 1 – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			WIFI 0	WIFI 1	MIMO
UNII-5	6025	15	7.56	7.00	10.30
	6345	79	7.99	6.98	10.52
UNII-6	6505	111	7.85	7.96	10.92
UNII-7	6665	143	7.30	6.70	10.02
UNII-8	6985	207	7.53	7.11	10.34

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.

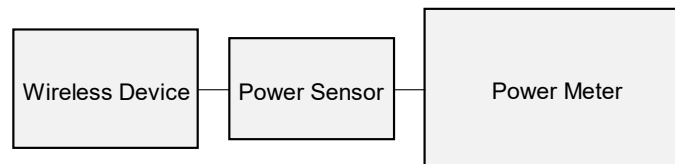


Figure 8-1
Power Measurement Setup

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8.2 Bluetooth Conducted Powers

Table 8-24
Bluetooth Maximum Average RF Power – Antenna WIFI 0

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	17.60	57.544
2441	1.0	GFSK	ePA	39	17.49	56.105
2480	1.0	GFSK	ePA	78	17.42	55.208
2402	2.0	$\pi/4$ -DQPSK	ePA	0	13.83	24.155
2441	2.0	$\pi/4$ -DQPSK	ePA	39	14.13	25.882
2480	2.0	$\pi/4$ -DQPSK	ePA	78	14.11	25.763
2402	3.0	8DPSK	ePA	0	13.91	24.604
2441	3.0	8DPSK	ePA	39	14.20	26.303
2480	3.0	8DPSK	ePA	78	14.15	26.002

Table 8-25
Bluetooth Reduced Average RF Power at Reduced Power Level 1 – Antenna WIFI 0

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	10.85	12.162
2441	1.0	GFSK	ePA	39	10.75	11.885
2480	1.0	GFSK	ePA	78	10.94	12.417
2402	2.0	$\pi/4$ -DQPSK	ePA	0	10.98	12.531
2441	2.0	$\pi/4$ -DQPSK	ePA	39	10.99	12.560
2480	2.0	$\pi/4$ -DQPSK	ePA	78	10.94	12.417
2402	3.0	8DPSK	ePA	0	10.99	12.560
2441	3.0	8DPSK	ePA	39	10.99	12.560
2480	3.0	8DPSK	ePA	78	10.96	12.474

Table 8-26
Bluetooth Maximum Average RF Power – Antenna WIFI 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	16.20	41.687
2441	1.0	GFSK	ePA	39	16.54	45.082
2480	1.0	GFSK	ePA	78	16.63	46.026
2402	2.0	$\pi/4$ -DQPSK	ePA	0	12.85	19.275
2441	2.0	$\pi/4$ -DQPSK	ePA	39	12.65	18.408
2480	2.0	$\pi/4$ -DQPSK	ePA	78	12.58	18.113
2402	3.0	8DPSK	ePA	0	12.91	19.543
2441	3.0	8DPSK	ePA	39	12.70	18.621
2480	3.0	8DPSK	ePA	78	12.74	18.793

Table 8-27
Bluetooth Reduced Average RF Power at Reduced Power Level 1 – Antenna WIFI 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	10.24	10.568
2441	1.0	GFSK	ePA	39	10.42	11.015
2480	1.0	GFSK	ePA	78	10.73	11.830
2402	2.0	$\pi/4$ -DQPSK	ePA	0	10.54	11.324
2441	2.0	$\pi/4$ -DQPSK	ePA	39	10.72	11.803
2480	2.0	$\pi/4$ -DQPSK	ePA	78	10.94	12.417
2402	3.0	8DPSK	ePA	0	10.54	11.324
2441	3.0	8DPSK	ePA	39	10.69	11.722
2480	3.0	8DPSK	ePA	78	10.93	12.388

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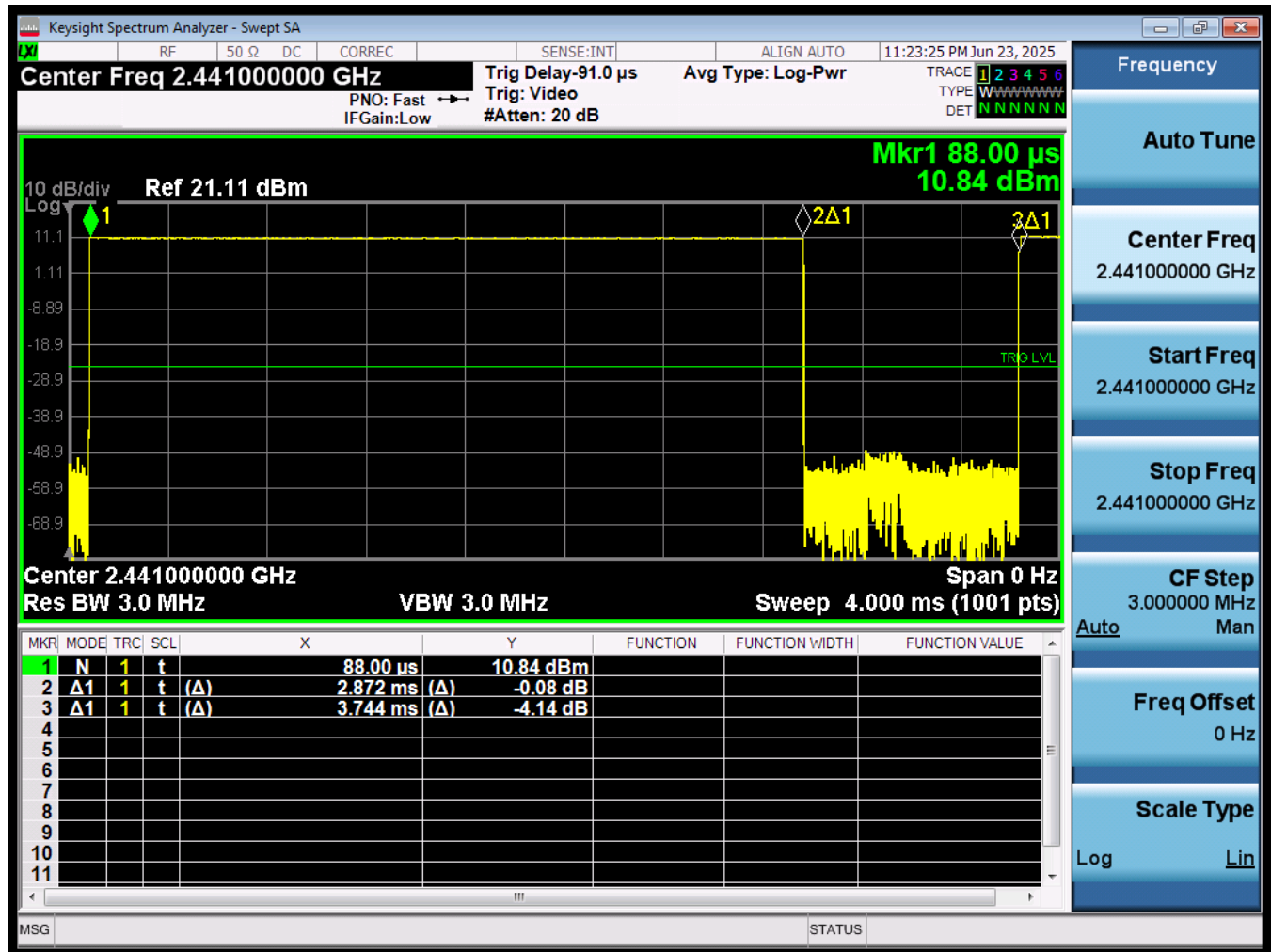


Figure 8-2
Bluetooth Transmission Plot – Ant WIFI 0

Equation 8-1
Bluetooth Antenna 1 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.872\text{ms}}{3.744\text{ms}} * 100\% = 76.7\%$$

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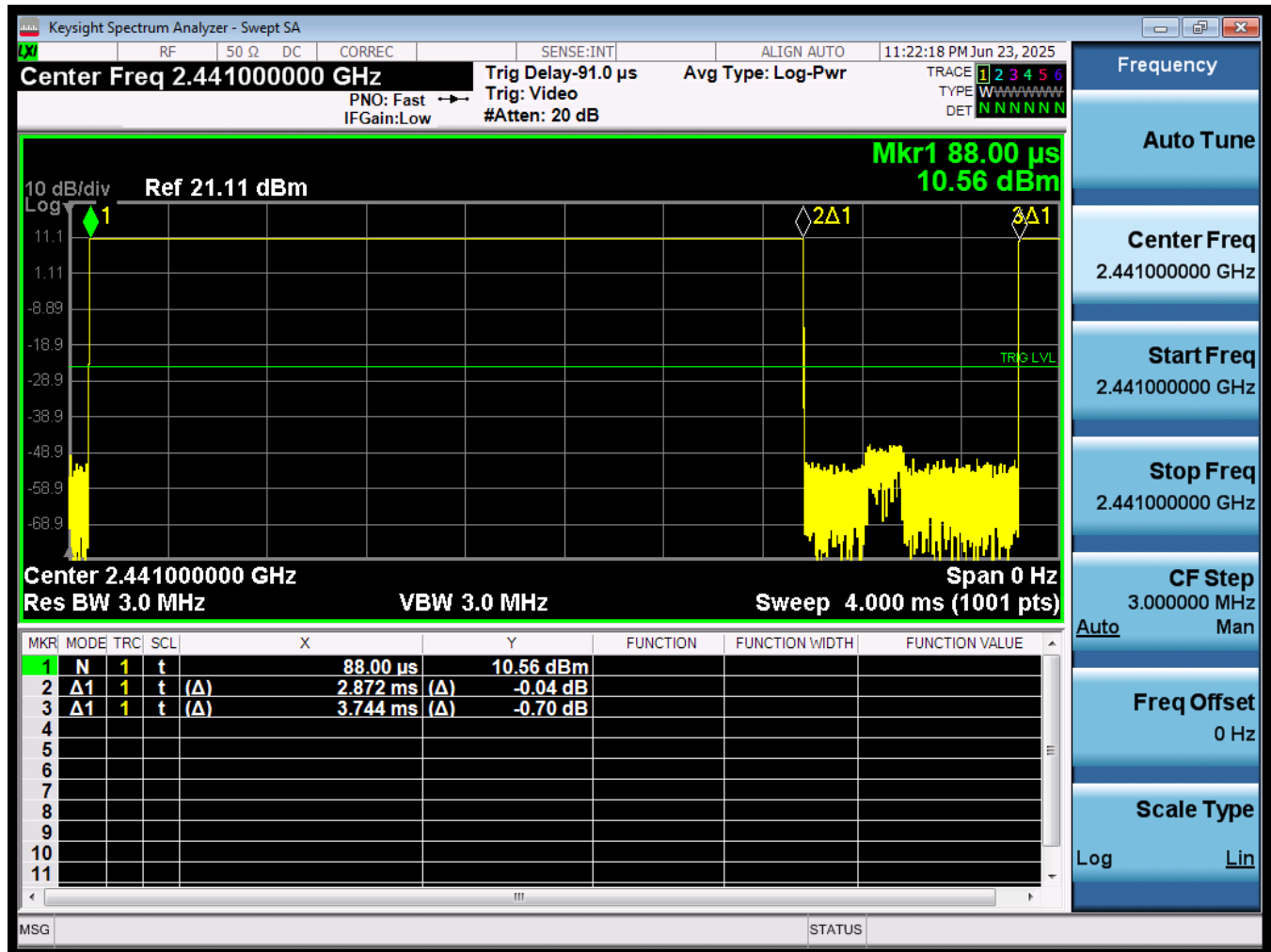


Figure 8-3
Bluetooth Transmission Plot – Ant WIFI 1

Equation 8-2
Bluetooth Antenna 2 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.872ms}{3.744ms} * 100\% = 76.7\%$$

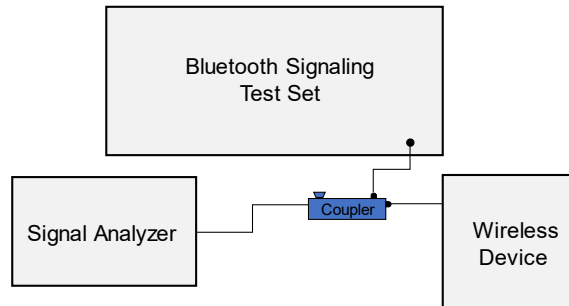


Figure 8-4
Power Measurement Setup

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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
06/25/2025	2450 Head	21.1	2300	1.675	40.496	1.670	39.500	0.30%	2.52%
			2310	1.683	40.488	1.679	39.480	0.24%	2.55%
			2320	1.690	40.476	1.687	39.460	0.18%	2.57%
			2400	1.750	40.346	1.756	39.289	-0.34%	2.69%
			2450	1.784	40.257	1.800	39.200	-0.89%	2.70%
			2480	1.809	40.213	1.833	39.162	-1.31%	2.68%
			2500	1.825	40.198	1.855	39.136	-1.62%	2.71%
			2510	1.832	40.188	1.866	39.123	-1.82%	2.72%
			2535	1.850	40.136	1.893	39.092	-2.27%	2.67%
			2550	1.863	40.103	1.909	39.073	-2.41%	2.64%
			2560	1.872	40.086	1.920	39.060	-2.50%	2.63%
			2600	1.904	40.050	1.964	39.009	-3.05%	2.67%
			2650	1.942	39.930	2.018	38.945	-3.77%	2.53%
			2680	1.969	39.900	2.051	38.907	-4.00%	2.55%
			2700	1.983	39.886	2.073	38.882	-4.34%	2.58%
06/30/2025	2450 Head	22.1	2300	1.674	39.959	1.670	39.500	0.24%	1.16%
			2310	1.680	39.939	1.679	39.480	0.06%	1.16%
			2320	1.687	39.920	1.687	39.460	0.00%	1.17%
			2400	1.750	39.846	1.756	39.289	-0.34%	1.42%
			2450	1.791	39.749	1.800	39.200	-0.50%	1.40%
			2480	1.817	39.728	1.833	39.162	-0.87%	1.45%
			2500	1.828	39.707	1.855	39.136	-1.46%	1.46%
			2510	1.833	39.687	1.866	39.123	-1.77%	1.44%
			2535	1.853	39.618	1.893	39.092	-2.11%	1.35%
			2550	1.869	39.587	1.909	39.073	-2.10%	1.32%
			2560	1.880	39.578	1.920	39.060	-2.08%	1.33%
			2600	1.908	39.550	1.964	39.009	-2.85%	1.39%
			2650	1.946	39.410	2.018	38.945	-3.57%	1.19%
			2680	1.975	39.394	2.051	38.907	-3.71%	1.25%
			2700	1.984	39.379	2.073	38.882	-4.29%	1.28%
06/30/2025	2450 Head	20.4	2300	1.669	40.055	1.670	39.500	-0.06%	1.41%
			2310	1.675	40.032	1.679	39.480	-0.24%	1.40%
			2320	1.683	40.016	1.687	39.460	-0.24%	1.41%
			2400	1.746	39.938	1.756	39.289	-0.57%	1.65%
			2450	1.789	39.858	1.800	39.200	-0.61%	1.68%
			2480	1.813	39.823	1.833	39.162	-1.09%	1.69%
			2500	1.826	39.786	1.855	39.136	-1.56%	1.66%
			2510	1.834	39.767	1.866	39.123	-1.71%	1.65%
			2535	1.855	39.721	1.893	39.092	-2.01%	1.61%
			2550	1.870	39.698	1.909	39.073	-2.04%	1.60%
			2560	1.880	39.685	1.920	39.060	-2.08%	1.60%
			2600	1.909	39.620	1.964	39.009	-2.80%	1.57%
			2650	1.951	39.518	2.018	38.945	-3.32%	1.47%
			2680	1.976	39.475	2.051	38.907	-3.66%	1.46%
			2700	1.989	39.445	2.073	38.882	-4.05%	1.45%
07/09/2025	2450 Head	22.3	2300	1.691	37.680	1.670	39.500	1.26%	-4.61%
			2310	1.698	37.662	1.679	39.480	1.13%	-4.60%
			2320	1.705	37.646	1.687	39.460	1.07%	-4.60%
			2400	1.759	37.545	1.756	39.289	0.17%	-4.44%
			2450	1.797	37.472	1.800	39.200	-0.17%	-4.41%
			2480	1.819	37.428	1.833	39.162	-0.76%	-4.43%
			2500	1.833	37.393	1.855	39.136	-1.19%	-4.45%
			2510	1.840	37.377	1.866	39.123	-1.39%	-4.46%
			2535	1.860	37.341	1.893	39.092	-1.74%	-4.48%
			2550	1.873	37.323	1.909	39.073	-1.89%	-4.48%
			2560	1.881	37.310	1.920	39.060	-2.03%	-4.48%
			2600	1.909	37.246	1.964	39.009	-2.80%	-4.52%
			2650	1.950	37.157	2.018	38.945	-3.37%	-4.59%
			2680	1.971	37.121	2.051	38.907	-3.90%	-4.59%
			2700	1.983	37.081	2.073	38.882	-4.34%	-4.63%

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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
06/20/2025	5200-5800 Head	20.3	5150	4.533	35.495	4.608	36.050	-1.63%	1.23%
			5160	4.549	35.502	4.618	36.040	-1.49%	1.28%
			5170	4.555	35.500	4.609	36.030	-1.80%	1.30%
			5180	4.558	35.494	4.605	36.020	-1.68%	1.32%
			5190	4.563	35.489	4.645	35.988	-1.77%	1.31%
			5200	4.571	35.450	4.655	35.986	-1.80%	1.29%
			5210	4.581	35.425	4.666	35.975	-1.82%	1.25%
			5220	4.591	35.391	4.676	35.963	-1.82%	1.19%
			5240	4.632	35.317	4.696	35.940	-1.36%	1.05%
			5250	4.646	35.315	4.706	35.929	-1.27%	1.07%
			5260	4.656	35.328	4.717	35.917	-1.29%	1.14%
			5270	4.663	35.320	4.727	35.906	-1.35%	1.15%
			5280	4.670	35.306	4.737	35.894	-1.41%	1.15%
			5290	4.678	35.280	4.748	35.883	-1.47%	1.11%
			5300	4.685	35.245	4.758	35.871	-1.53%	1.04%
			5310	4.695	35.207	4.768	35.860	-1.53%	0.97%
			5320	4.708	35.161	4.778	35.849	-1.47%	0.87%
			5500	4.914	35.962	4.963	35.643	-0.99%	0.61%
			5510	4.930	35.835	4.973	35.632	-0.86%	0.57%
			5520	4.940	35.811	4.983	35.620	-0.70%	0.54%
			5530	4.955	35.800	4.994	35.609	-0.58%	0.54%
			5540	4.979	35.784	5.004	35.597	-0.50%	0.52%
			5550	4.991	35.791	5.014	35.586	-0.46%	0.58%
			5560	5.009	35.781	5.024	35.574	-0.50%	0.61%
			5580	5.018	35.744	5.045	35.551	-0.27%	0.54%
			5600	5.045	35.694	5.065	35.529	-0.39%	0.48%
			5610	5.058	35.667	5.076	35.518	-0.35%	0.42%
			5620	5.072	35.640	5.086	35.506	-0.28%	0.39%
			5640	5.102	35.617	5.106	35.483	-0.08%	0.38%
			5660	5.120	35.590	5.127	35.460	-0.14%	0.37%
			5670	5.128	35.572	5.137	35.449	-0.18%	0.35%
			5680	5.137	35.542	5.147	35.437	-0.19%	0.30%
			5690	5.150	35.511	5.158	35.426	-0.16%	0.24%
			5700	5.164	35.477	5.168	35.414	-0.08%	0.18%
			5710	5.179	35.473	5.178	35.403	0.02%	0.20%
			5720	5.190	35.454	5.188	35.391	0.04%	0.18%
			5745	5.203	35.430	5.214	35.363	-0.13%	0.15%
			5750	5.209	35.420	5.219	35.357	-0.19%	0.18%
			5755	5.215	35.415	5.224	35.351	-0.17%	0.18%
			5765	5.226	35.388	5.234	35.340	-0.15%	0.14%
			5775	5.238	35.360	5.245	35.329	-0.13%	0.08%
			5785	5.253	35.325	5.255	35.317	-0.04%	0.02%
			5795	5.270	35.296	5.265	35.305	0.09%	-0.03%
			5800	5.279	35.286	5.270	35.300	0.17%	-0.04%
			5800	5.279	35.286	5.270	35.300	0.17%	-0.04%
			5800	5.279	35.286	5.270	35.300	0.17%	-0.04%
			5805	5.287	35.280	5.275	35.294	0.23%	-0.04%
			5825	5.311	35.296	5.296	35.271	0.28%	0.07%
			5835	5.319	35.292	5.305	35.230	0.26%	0.18%
			5845	5.326	35.284	5.315	35.210	0.21%	0.17%
			5850	5.329	35.284	5.320	35.201	0.17%	0.12%
			5855	5.334	35.230	5.325	35.197	0.17%	0.09%
			5865	5.343	35.199	5.336	35.190	0.13%	0.03%
			5865	5.343	35.199	5.336	35.190	0.13%	0.03%
			5865	5.343	35.199	5.336	35.190	0.13%	0.03%
			5865	5.343	35.199	5.336	35.190	0.13%	0.03%
			5875	5.357	35.175	5.347	35.183	0.19%	-0.02%
			5885	5.370	35.150	5.357	35.177	0.24%	-0.09%
			5905	5.403	35.129	5.379	35.163	0.45%	-0.11%
			5900	5.279	35.286	5.270	35.300	0.17%	-0.04%
			5900	5.279	35.286	5.270	35.300	0.17%	-0.04%
			5150	4.558	35.128	4.608	36.050	-1.09%	0.21%
			5160	4.569	35.109	4.618	36.040	-1.13%	0.19%
			5170	4.578	35.119	4.629	36.030	-1.14%	0.25%
			5180	4.586	35.121	4.635	36.009	-1.01%	0.31%
			5190	4.599	35.082	4.645	35.998	-0.99%	0.28%
			5200	4.609	35.050	4.655	35.986	-0.99%	0.18%
			5210	4.620	35.011	4.666	35.975	-0.99%	0.10%
			5220	4.635	35.969	4.676	35.963	-0.88%	0.10%
			5240	4.661	35.908	4.696	35.940	-0.75%	0.08%
			5250	4.672	35.965	4.706	35.929	-0.70%	0.07%
			5260	4.683	35.942	4.717	35.917	-0.72%	0.07%
			5270	4.694	35.921	4.727	35.906	-0.70%	0.04%
			5280	4.703	35.913	4.737	35.894	-0.72%	0.08%
			5290	4.712	35.880	4.748	35.883	-0.78%	-0.01%
			5300	4.724	35.846	4.758	35.871	-0.71%	-0.07%
			5310	4.732	35.827	4.768	35.860	-0.76%	-0.09%
			5320	4.746	35.803	4.778	35.849	-0.67%	-0.13%
			5500	4.952	35.480	4.963	35.643	-0.22%	-0.46%
			5510	4.953	35.465	4.973	35.632	-0.25%	-0.47%
			5520	4.978	35.451	4.983	35.620	-0.10%	-0.47%
			5530	4.987	35.444	4.994	35.609	-0.14%	-0.46%
			5540	5.004	35.424	5.004	35.597	0.00%	-0.49%
			5550	5.018	35.389	5.014	35.586	0.08%	-0.57%
			5560	5.031	35.382	5.024	35.574	0.14%	-0.54%
			5580	5.046	35.347	5.045	35.551	0.02%	-0.57%
			5600	5.077	35.307	5.065	35.529	0.24%	-0.62%
			5610	5.090	35.297	5.076	35.518	0.28%	-0.62%
			5620	5.102	35.251	5.086	35.506	0.31%	-0.69%
			5640	5.121	35.214	5.106	35.483	0.29%	-0.76%
			5660	5.146	35.194	5.127	35.460	0.37%	-0.79%
			5670	5.155	35.178	5.137	35.449	0.32%	-0.76%
			5680	5.167	35.160	5.147	35.437	0.39%	-0.78%
			5690	5.181	35.136	5.158	35.426	0.45%	-0.82%
			5700	5.195	35.111	5.168	35.414	0.52%	-0.86%
			5710	5.205	35.102	5.178	35.403	0.52%	-0.84%
			5745	5.215	35.084	5.188	35.391	0.52%	-0.84%
			5750	5.249	35.039	5.214	35.363	0.67%	-0.92%
			5755	5.254	35.027	5.219	35.357	0.67%	-0.93%
			5765	5.269	35.021	5.224	35.351	0.67%	-0.93%
			5765	5.269	35.025	5.234	35.340	0.67%	-0.95%
			5775	5.281	34.983	5.245	35.329	0.69%	-0.98%
			5785	5.290	34.958	5.255	35.317	0.67%	-1.02%
			5795	5.303	34.941	5.265	35.305	0.72%	-1.03%
			5805	5.316	34.916	5.275	35.294	0.78%	-1.07%
			5825	5.339	34.906	5.296	35.271	0.81%	-1.03%
			5835	5.346	34.890	5.305	35.230	0.81%	-0.97%
			5845	5.360	34.863	5.315	35.210	0.85%	-0.99%
			5850	5.365	34.847	5.320	35.200	0.85%	-1.00%
			5855	5.371	34.837	5.325	35.197	0.86%	-1.02%
			5875	5.396	34.809	5.347	35.183	0.73%	-1.06%
			5885	5.402	34.794	5.357	35.177	0.84%	-1.12%
			5905	5.437	34.745	5.379	35.163	1.08%	-1.19%

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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
06-27-2025	6000 Head	19.2	5935	5.614	35.022	5.411	35.143	3.75%	-0.34%
			5970	5.655	34.938	5.448	35.120	3.80%	-0.52%
			5985	5.647	34.843	5.464	35.110	3.35%	-0.76%
			6000	5.633	34.817	5.480	35.100	2.79%	-0.81%
			6025	5.673	34.845	5.510	35.070	2.96%	-0.64%
			6065	5.772	34.748	5.557	35.022	3.87%	-0.78%
			6075	5.780	34.682	5.569	35.010	3.79%	-0.94%
			6085	5.779	34.626	5.580	34.998	3.57%	-1.06%
			6185	5.919	34.435	5.698	34.878	3.88%	-1.27%
			6275	6.065	34.295	5.805	34.770	4.48%	-1.37%
			6285	6.053	34.235	5.816	34.758	4.07%	-1.50%
			6305	6.025	34.208	5.840	34.734	3.17%	-1.51%
			6345	6.116	34.184	5.887	34.686	3.89%	-1.45%
			6475	6.322	33.877	6.041	34.530	4.65%	-1.89%
			6485	6.313	33.850	6.052	34.518	4.31%	-1.94%
			6500	6.282	33.889	6.070	34.500	3.49%	-1.77%
			6505	6.277	33.901	6.076	34.494	3.31%	-1.72%
			6545	6.327	33.788	6.122	34.446	3.35%	-1.91%
			6665	6.541	33.500	6.265	34.302	4.41%	-2.34%
			6675	6.565	33.496	6.273	34.290	4.65%	-2.32%
			6685	6.572	33.480	6.285	34.278	4.57%	-2.33%
			6715	6.540	33.386	6.319	34.242	3.50%	-2.50%
			6785	6.688	33.353	6.400	34.158	4.50%	-2.36%
			6825	6.616	33.243	6.447	34.110	2.62%	-2.54%
			6985	6.905	32.898	6.633	33.918	4.10%	-3.01%
			6995	6.905	32.879	6.644	33.906	3.93%	-3.03%
			7000	6.897	32.854	6.650	33.900	3.71%	-3.09%
			7005	6.890	32.831	6.656	33.894	3.52%	-3.14%
			7025	6.862	32.773	6.680	33.870	2.72%	-3.24%
07/08/2025	6000 Head	21.3	5935	5.294	35.546	5.411	35.143	-2.16%	1.15%
			5970	5.326	35.436	5.448	35.120	-2.24%	0.90%
			5985	5.354	35.398	5.464	35.110	-2.01%	0.82%
			6000	5.362	35.404	5.480	35.100	-2.15%	0.87%
			6025	5.360	35.394	5.510	35.070	-2.72%	0.92%
			6065	5.415	35.221	5.557	35.022	-2.56%	0.57%
			6075	5.440	35.192	5.569	35.010	-2.32%	0.52%
			6085	5.467	35.177	5.580	34.998	-2.03%	0.51%
			6185	5.604	35.010	5.698	34.878	-1.65%	0.38%
			6275	5.702	34.868	5.805	34.770	-1.77%	0.28%
			6285	5.713	34.834	5.816	34.758	-1.77%	0.22%
			6305	5.738	34.854	5.840	34.734	-1.75%	0.35%
			6345	5.773	34.784	5.887	34.686	-1.94%	0.28%
			6475	5.941	34.458	6.041	34.530	-1.66%	-0.21%
			6485	5.957	34.456	6.052	34.518	-1.57%	-0.18%
			6500	5.968	34.540	6.070	34.500	-1.68%	0.12%
			6505	5.970	34.563	6.076	34.494	-1.74%	0.20%
			6545	6.000	34.416	6.122	34.446	-1.99%	-0.09%
			6665	6.158	34.161	6.265	34.302	-1.71%	-0.41%
			6675	6.177	34.169	6.273	34.290	-1.53%	-0.35%
			6685	6.192	34.179	6.285	34.278	-1.48%	-0.29%
			6715	6.222	34.121	6.319	34.242	-1.54%	-0.35%
			6785	6.305	34.071	6.400	34.158	-1.48%	-0.25%
			6825	6.313	33.990	6.447	34.110	-2.08%	-0.35%
			6985	6.518	33.632	6.633	33.918	-1.73%	-0.84%
			6995	6.509	33.604	6.644	33.906	-2.03%	-0.89%
			7000	6.504	33.579	6.650	33.900	-2.20%	-0.95%
			7005	6.497	33.554	6.656	33.894	-2.39%	-1.00%
			7025	6.511	33.498	6.680	33.870	-2.53%	-1.10%

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

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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 9-4
System Verification Results**

System Verification TARGET & MEASURED																					
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
C	2450	HEAD	06-25-2025	23.6	21.1	0.10	981	7713	1530	5.11	51.80	51.10	-1.35%	2.40	24.30	24.00	-1.23%	N/A	N/A	N/A	N/A
G	2450	HEAD	06-30-2025	24.1	22.9	0.10	981	7488	1415	5.24	51.80	52.40	1.16%	2.43	24.30	24.30	0.00%	N/A	N/A	N/A	N/A
C	2450	HEAD	06-30-2025	23.5	21.6	0.10	719	7713	1530	5.10	52.20	51.00	-2.30%	2.40	24.60	24.00	-2.44%	N/A	N/A	N/A	N/A
N	2450	HEAD	07-09-2025	24.7	22.3	0.10	981	7410	1213	5.38	51.80	53.80	3.86%	2.51	24.30	25.10	3.29%	N/A	N/A	N/A	N/A
S	5250	HEAD	06-20-2025	22.0	20.0	0.05	1057	7803	1583	3.82	79.40	76.40	-3.78%	1.11	22.70	22.20	-2.20%	N/A	N/A	N/A	N/A
O	5250	HEAD	06-22-2025	20.7	19.6	0.05	1057	7718	1407	3.67	79.40	73.40	-7.56%	1.05	22.70	21.00	-7.49%	N/A	N/A	N/A	N/A
S	5600	HEAD	06-20-2025	22.0	20.0	0.05	1057	7803	1583	3.99	82.80	79.80	-3.62%	1.15	23.60	23.00	-2.54%	N/A	N/A	N/A	N/A
O	5600	HEAD	06-22-2025	20.7	19.6	0.05	1057	7718	1407	3.87	82.80	77.40	-6.52%	1.11	23.60	22.20	-5.93%	N/A	N/A	N/A	N/A
S	5750	HEAD	06-20-2025	22.0	20.0	0.05	1057	7803	1583	3.98	79.80	79.60	-0.25%	1.15	22.70	23.00	1.32%	N/A	N/A	N/A	N/A
O	5750	HEAD	06-22-2025	20.7	19.6	0.05	1057	7718	1407	3.81	79.80	76.20	-4.51%	1.08	22.70	21.60	-4.85%	N/A	N/A	N/A	N/A
S	5850	HEAD	06-20-2025	22.0	20.0	0.05	1057	7803	1583	3.97	81.50	79.40	-2.58%	1.13	23.00	22.60	-1.74%	N/A	N/A	N/A	N/A
O	5850	HEAD	06-22-2025	20.7	19.6	0.05	1057	7718	1407	3.80	81.50	76.00	-6.75%	1.07	23.00	21.40	-6.96%	N/A	N/A	N/A	N/A
R	6500	HEAD	06-27-2025	24.6	21.1	0.03	1018	7570	1638	7.80	292.00	312.00	6.85%	1.43	53.90	57.20	6.12%	34.70	1310.00	1385.00	5.95%
R	6500	HEAD	07-08-2025	23.4	21.6	0.03	1018	7570	1638	7.68	292.00	307.20	5.21%	1.41	53.90	56.40	4.64%	34.10	1310.00	1364.00	4.12%

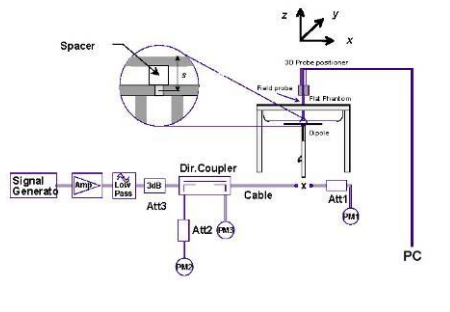


**Figure 9-1
System Verification Setup Diagram**



**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.

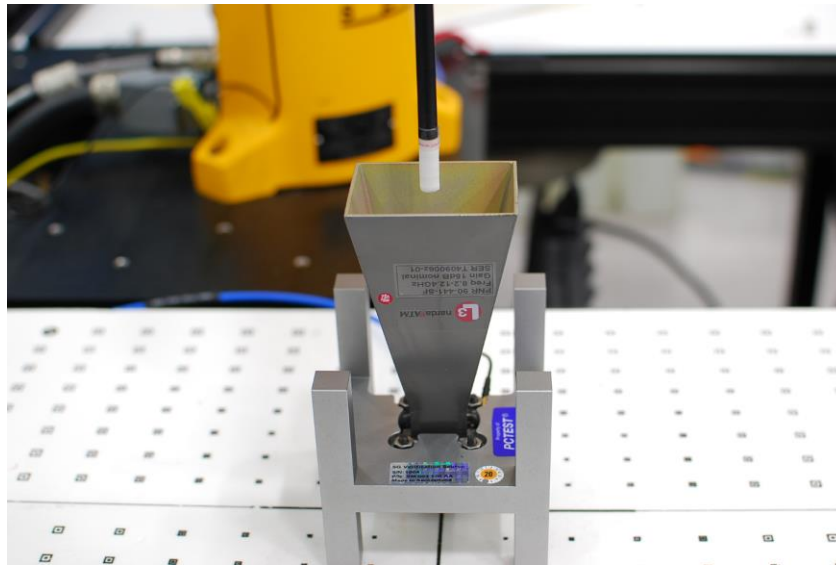


Figure 9-3
System Verification Setup Photo

Table 9-5
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	06/30/2025	1002	9389	93.3	48.90	53.80	-0.41	49.10	54.00	-0.41
Q	10	07/07/2025	1002	9389	93.3	58.40	53.80	0.36	58.90	54.00	0.38

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 2.4 GHz WLAN SISO Standalone SAR

Table 10-1
2.4 GHz WLAN Ant WIFI 0 Tablet Max Power

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 0	1055M	99.03	-0.02	2412.00	1	1.0	19.0	18.74	Back	14	0.061	1.062	1.010	0.065	0.041	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 0	1055M	99.03	0.06	2412.00	1	1.0	19.0	18.74	Top	19	0.017	1.062	1.010	0.018	0.011	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 0	1055M	99.03	0.03	2412.00	1	1.0	19.0	18.74	Bottom	0	0.033	1.062	1.010	0.035	0.022	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 0	1055M	99.03	0.12	2412.00	1	1.0	19.0	18.74	Right	0	0.010	1.062	1.010	0.011	0.007	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 0	1055M	99.03	0.06	2412.00	1	1.0	19.0	18.74	Left	9	0.087	1.062	1.010	0.093	0.058	
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
2.4 GHz WLAN Ant WIFI 0 Tablet at Reduced Power Level 1 | Plot A1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WiFi 0	2342M	99.03	0.05	2412.00	1	1.0	14.0	13.65	Back	0	N/A	0.833	1.084	1.010	0.912	0.570	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WiFi 0	2342M	99.03	0.03	2437.00	6	1.0	14.0	13.72	Back	0	N/A	0.829	1.067	1.010	0.893	0.588	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WiFi 0	2342M	99.03	0.10	2462.00	11	1.0	14.0	13.78	Back	0	N/A	0.946	1.052	1.010	1.005	0.628	A1
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WiFi 0	1055M	99.03	-0.06	2462.00	11	1.0	14.0	13.78	Back	0	Keyboard	0.017	1.052	1.010	0.019	0.024	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WiFi 0	2342M	99.03	0.05	2462.00	11	1.0	14.0	13.78	Back	0	N/A	0.917	1.052	1.010	0.998	0.613	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WiFi 0	2342M	99.03	0.00	2462.00	11	1.0	14.0	13.78	Top	0	N/A	0.327	1.052	1.010	0.347	0.217	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WiFi 0	2342M	99.03	-0.01	2462.00	11	1.0	14.0	13.78	Left	0	N/A	0.540	1.052	1.010	0.574	0.359	
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																					

Note: Blue entry represents variability measurement

Table 10-3
2.4 GHz WLAN Ant WIFI 0 Laptop | Plot A2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Laptop	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 0	0328M	99.03	0.04	2462.00	11	1.0	14.0	13.78	Bottom	0	0.129	1.052	1.010	0.137	0.086	A2
Laptop	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 0	1062M	99.03	0.09	2412.00	1	1.0	19.0	18.74	Bottom	9	0.048	1.062	1.010	0.051	0.032	
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
2.4 GHz WLAN Ant WIFI 1 Tablet Max Power

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 1	1173M	98.78	-0.06	2462.00	11	1.0	19.0	18.61	Back	14	0.100	1.094	1.012	0.111	0.069	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 1	1173M	98.78	-0.07	2462.00	11	1.0	19.0	18.61	Top	19	0.019	1.094	1.012	0.020	0.013	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 1	1173M	98.78	0.02	2462.00	11	1.0	19.0	18.61	Bottom	0	0.036	1.094	1.012	0.040	0.025	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 1	1173M	98.78	-0.01	2462.00	11	1.0	19.0	18.61	Right	8	0.200	1.094	1.012	0.221	0.138	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WIFI 1	1173M	98.78	0.02	2462.00	11	1.0	19.0	18.61	Left	0	0.000	1.094	1.012	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-5
2.4 GHz WLAN Ant WIFI 1 Tablet at Reduced Power Level 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WiFi 1	2342M	98.78	-0.08	2437.00	6	1.0	14.0	13.83	Back	0	N/A	0.558	1.040	1.012	0.587	0.367	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WiFi 1	2342M	98.78	0.00	2437.00	6	1.0	14.0	13.83	Top	0	N/A	0.313	1.040	1.012	0.329	0.206	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WiFi 1	2342M	98.78	0.13	2412.00	1	1.0	14.0	13.79	Right	0	N/A	0.945	1.050	1.012	1.004	0.628	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WiFi 1	0328M	98.78	0.13	2412.00	1	1.0	14.0	13.79	Right	0	Keyboard	0.608	1.050	1.012	0.646	0.404	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WiFi 1	2342M	98.78	0.08	2437.00	6	1.0	14.0	13.83	Right	0	N/A	0.829	1.040	1.012	0.873	0.546	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WiFi 1	2342M	98.78	0.02	2462.00	11	1.0	14.0	13.51	Right	0	N/A	0.866	1.119	1.012	0.981	0.613	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram					

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Table 10-6
2.4 GHz WLAN Ant WIFI 1 Tablet at Reduced Power Level 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WiFi 1	2342M	98.78	0.00	2437.00	6	1.0	12.5	11.75	Back	0	0.314	1.189	1.012	0.378	0.236	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WiFi 1	2342M	98.78	-0.09	2437.00	6	1.0	12.5	11.75	Right	0	0.540	1.189	1.012	0.650	0.406	
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 10-7
2.4 GHz WLAN Ant WIFI 1 Laptop

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Laptop	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WiFi 1	1173M	98.78	0.07	2462.00	11	1.0	19.0	18.61	Bottom	0	0.000	1.094	1.012	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.2 2.4 GHz WLAN MIMO Standalone SAR

Table 10-8
2.4 GHz WLAN MIMO Tablet Max Power

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	1	1173M	98.54	-0.30	2412.00	1	1.0	19.0	18.77	19.0	18.66	Back	14	0.063	1.081	1.015	0.069	0.043	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	2	1173M	98.54	-0.05	2412.00	1	1.0	19.0	18.77	19.0	18.66	Back	14	0.114	1.081	1.015	0.125	0.078	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	1173M	98.54	0.04	2412.00	1	1.0	19.0	18.77	19.0	18.66	Top	19	0.049	1.081	1.015	0.054	0.034	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	1173M	98.54	0.03	2412.00	1	1.0	19.0	18.77	19.0	18.66	Bottom	0	0.036	1.081	1.015	0.039	0.024	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	1055M	98.54	0.01	2412.00	1	1.0	19.0	18.77	19.0	18.66	Right	8	0.330	1.081	1.015	0.362	0.226	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	1055M	98.54	0.17	2412.00	1	1.0	19.0	18.77	19.0	18.66	Left	9	0.086	1.081	1.015	0.094	0.059	
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: To achieve the 22 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19 dBm.

Table 10-9
2.4 GHz WLAN MIMO Tablet at Reduced Power Level 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Adf's Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	1	2342M	98.54	0.16	2412.00	1	1.0	14.0	13.52	14.0	13.74	Back	0	N/A	0.683	1.117	1.015	0.774	0.484	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	2	2342M	98.54	0.07	2412.00	1	1.0	14.0	13.52	14.0	13.74	Back	0	N/A	0.548	1.117	1.015	0.621	0.388	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	2342M	98.54	-0.03	2412.00	1	1.0	14.0	13.52	14.0	13.74	Top	0	N/A	0.615	1.117	1.015	0.697	0.436	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	2342M	98.54	-0.06	2412.00	1	1.0	14.0	13.53	14.0	13.74	Right	0	N/A	0.866	1.117	1.015	0.982	0.614	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	0128M	98.54	-0.03	2412.00	1	1.0	14.0	13.52	14.0	13.74	Right	0	Exposed	0.714	1.117	1.015	0.810	0.506	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	2342M	98.54	-0.12	2412.00	6	1.0	14.0	13.58	14.0	13.65	Right	0	N/A	0.784	1.102	1.015	0.877	0.548	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	2342M	98.54	0.03	2462.00	11	1.0	14.0	13.57	14.0	13.50	Right	0	N/A	0.750	1.122	1.015	0.854	0.534	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	2342M	98.54	0.02	2412.00	1	1.0	14.0	13.52	14.0	13.74	Left	0	N/A	0.605	1.117	1.015	0.688	0.429	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																								
Spatial Peak																							Body	
Uncontrolled Exposure/General Population																							1.6 W/kg (mW/g) averaged over 1 gram	

Note: To achieve the 17 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.

Table 10-10
2.4 GHz WLAN MIMO Tablet at Reduced Power Level 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	1	2342M	98.54	0.01	2462.00	11	1.0	12.5	12.06	12.5	11.80	Back	0	0.266	1.175	1.015	0.317	0.198	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	2	2342M	98.54	0.02	2462.00	11	1.0	12.5	12.06	12.5	11.80	Back	0	0.411	1.175	1.015	0.490	0.306	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	2342M	98.54	0.03	2462.00	11	1.0	12.5	12.06	12.5	11.80	Right	0	0.499	1.175	1.015	0.595	0.372	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	N/A	2342M	98.54	0.03	2462.00	11	1.0	12.5	12.06	12.5	11.80	Left	0	0.317	1.175	1.015	0.378	0.236	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: To achieve the 15.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12.5 dBm.

Table 10-11
2.4 GHz WLAN MIMO Laptop

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Laptop	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	0128M	98.54	0.00	2412.00	1	1.0	14.0	13.52	14.0	13.74	Bottom	0	0.126	1.117	1.015	0.143	0.089	
Laptop	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	2342M	98.54	0.13	2412.00	1	1.0	19.0	18.77	19.0	18.66	Bottom	9	0.050	1.081	1.015	0.055	0.034	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: To achieve the 17 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.

Note: To achieve the 22 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19 dBm.

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10.3 5 GHz WLAN SISO Standalone SAR

Table 10-12
5 GHz WLAN Ant WIFI 0 Tablet Max Power

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.11	5260.00	52	U-NII-2A	6.0	18.0	17.32	Back	14	0.107	1.169	1.020	0.128	0.080	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.00	5620.00	124	U-NII-2C	6.0	18.0	17.47	Back	14	0.104	1.130	1.020	0.120	0.075	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.08	5745.00	149	U-NII-3	6.0	18.0	17.46	Back	14	0.144	1.132	1.020	0.166	0.104	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.05	5865.00	173	U-NII-4	6.0	18.0	17.17	Back	14	0.239	1.211	1.020	0.295	0.184	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.05	5260.00	52	U-NII-2A	6.0	18.0	17.32	Top	19	0.050	1.169	1.020	0.060	0.038	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.01	5620.00	124	U-NII-2C	6.0	18.0	17.47	Top	19	0.039	1.130	1.020	0.045	0.028	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.01	5745.00	149	U-NII-3	6.0	18.0	17.46	Top	19	0.063	1.132	1.020	0.073	0.046	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.11	5865.00	173	U-NII-4	6.0	18.0	17.17	Top	19	0.108	1.211	1.020	0.133	0.083	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.09	5260.00	52	U-NII-2A	6.0	18.0	17.32	Bottom	0	0.031	1.169	1.020	0.037	0.013	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.03	5620.00	124	U-NII-2C	6.0	18.0	17.47	Bottom	0	0.022	1.130	1.020	0.025	0.016	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.05	5745.00	149	U-NII-3	6.0	18.0	17.46	Bottom	0	0.034	1.132	1.020	0.039	0.024	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.06	5865.00	173	U-NII-4	6.0	18.0	17.17	Bottom	0	0.048	1.211	1.020	0.059	0.037	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.01	5260.00	52	U-NII-2A	6.0	18.0	17.32	Right	0	0.012	1.169	1.020	0.014	0.009	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.21	5620.00	124	U-NII-2C	6.0	18.0	17.47	Right	0	0.035	1.130	1.020	0.040	0.025	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.01	5745.00	149	U-NII-3	6.0	18.0	17.46	Right	0	0.026	1.132	1.020	0.030	0.019	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.04	5865.00	173	U-NII-4	6.0	18.0	17.17	Right	0	0.027	1.211	1.020	0.033	0.021	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.09	5260.00	52	U-NII-2A	6.0	18.0	17.32	Left	9	0.258	1.169	1.020	0.308	0.193	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.01	5620.00	124	U-NII-2C	6.0	18.0	17.47	Left	9	0.280	1.130	1.020	0.323	0.202	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.02	5745.00	149	U-NII-3	6.0	18.0	17.46	Left	9	0.388	1.132	1.020	0.448	0.280	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	2342M	98.06	-0.03	5865.00	173	U-NII-4	6.0	18.0	17.17	Left	9	0.595	1.211	1.020	0.735	0.459	
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 10-13
5 GHz WLAN Ant WIFI 0 Tablet at Reduced Power Level 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.02	5290.00	58	U-NII-2A	29.3	9.5	8.67	Back	0	N/A	0.201	1.211	1.020	0.248	0.155	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.14	5530.00	106	U-NII-2C	29.3	9.5	8.92	Back	0	N/A	0.288	1.143	1.020	0.336	0.210	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.06	5775.00	155	U-NII-3	29.3	9.5	8.82	Back	0	N/A	0.477	1.169	1.020	0.563	0.352	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.02	5855.00	171	U-NII-4	29.3	9.5	8.77	Back	0	N/A	0.618	1.183	1.020	0.746	0.466	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.04	5290.00	58	U-NII-2A	29.3	9.5	8.67	Top	0	N/A	0.074	1.211	1.020	0.091	0.057	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	0.04	5530.00	106	U-NII-2C	29.3	9.5	8.92	Top	0	N/A	0.080	1.143	1.020	0.095	0.058	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.05	5775.00	155	U-NII-3	29.3	9.5	8.82	Top	0	N/A	0.074	1.169	1.020	0.088	0.055	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.01	5855.00	171	U-NII-4	29.3	9.5	8.77	Top	0	N/A	0.181	1.183	1.020	0.218	0.136	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.03	5290.00	58	U-NII-2A	29.3	9.5	8.67	Left	0	N/A	0.385	1.211	1.020	0.476	0.298	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.01	5530.00	106	U-NII-2C	29.3	9.5	8.92	Left	0	N/A	0.160	1.143	1.020	0.065	0.049	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.03	5775.00	155	U-NII-3	29.3	9.5	8.82	Left	0	N/A	0.643	1.169	1.020	0.767	0.479	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	-0.01	5855.00	171	U-NII-4	29.3	9.5	8.77	Left	0	N/A	0.880	1.183	1.020	1.062	0.664	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2342M	98.08	0.10	5855.00	171	U-NII-4	29.3	9.5	8.77	Left	0	keyboard	0.351	1.183	1.020	0.424	0.265	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-14
5 GHz WLAN Ant WIFI 0 Laptop

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #
Laptop	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2312M	98.08	-0.02	5290.00	58	U-NII-2A	29.3	9.5	8.67	Bottom	0	0.143	1.211	1.020	0.177	0.111	
Laptop	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2312M	98.08	-0.05	5530.00	106	U-NII-2C	29.3	9.5	8.92	Bottom	0	0.139	1.143	1.020	0.162	0.101	
Laptop	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2312M	98.08	-0.02	5775.00	155	U-NII-3	29.3	9.5	8.82	Bottom	0	0.114	1.169	1.020	0.136	0.085	
Laptop	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WIFI 0	2312M	98.25	-0.06	5865.00	171	U-NII-4	29.3	9.5	8.66	Bottom	0	0.185	1.183	1.020	0.130	0.081	
Laptop	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	0316M	98.06	-0.08	5260.00	52	U-NII-2A	6.0	18.0	17.32	Bottom	9	0.258	1.169	1.020	0.308	0.193	
Laptop	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	0316M	98.06	-0.02	5620.00	124	U-NII-2C	6.0	18.0	17.47	Bottom	9	0.244	1.130	1.020	0.281	0.176	
Laptop	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	0316M	98.06	-0.12	5745.00	149	U-NII-3	6.0	18.0	17.46	Bottom	9	0.239	1.132	1.020	0.276	0.173	
Laptop	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 0	0316M	98.06	-0.13	5865.00	173	U-NII-4	6.0	18.0	17.17	Bottom	9	0.594	1.211	1.020	0.740	0.450	
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 10-15
5 GHz WLAN Ant WIFI 1 Tablet Max Power

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.01	5280.00	56	U-NII-2A	6.0	18.0	17.16	Back	14	0.011	1.213	1.018	0.014	0.009	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.01	5720.00	144	U-NII-2C	6.0	18.0	17.16	Back	14	0.106	1.213	1.018	0.131	0.082	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.04	5785.00	157	U-NII-3	6.0	18.0	17.16	Back	14	0.110	1.213	1.018	0.136	0.085	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.06	5865.00	173	U-NII-4	6.0	18.0	17.28	Back	14	0.186	1.180	1.018	0.130	0.081	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.05	5280.00	56	U-NII-2A	6.0	18.0	17.16	Top	19	0.010	1.213	1.018	0.012	0.008	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.05	5720.00	144	U-NII-2C	6.0	18.0	17.16	Top	19	0.010	1.213	1.018	0.012	0.008	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.04	5785.00	157	U-NII-3	6.0	18.0	17.16	Top	19	0.070	1.213	1.018	0.086	0.054	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.01	5865.00	173	U-NII-4	6.0	18.0	17.28	Top	19	0.070	1.180	1.018	0.084	0.053	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.01	5280.00	56	U-NII-2A	6.0	18.0	17.16	Bottom	0	0.005	1.213	1.018	0.006	0.004	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.09	5720.00	144	U-NII-2C	6.0	18.0	17.16	Bottom	0	0.058	1.213	1.018	0.072	0.045	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.09	5785.00	157	U-NII-3	6.0	18.0	17.16	Bottom	0	0.049	1.213	1.018	0.068	0.040	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.04	5865.00	173	U-NII-4	6.0	18.0	17.28	Bottom	0	0.058	1.180	1.018	0.067	0.029	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.07	5280.00	56	U-NII-2A	6.0	18.0	17.16	Right	8	0.056	1.213	1.018	0.069	0.043	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.05	5720.00	144	U-NII-2C	6.0	18.0	17.16	Right	8	0.056	1.213	1.018	0.062	0.044	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.05	5785.00	157	U-NII-3	6.0	18.0	17.16	Right	8	0.208	1.213	1.018	0.223	0.154	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.05	5865.00	173	U-NII-4	6.0	18.0	17.28	Right	8	0.602	1.180	1.018	0.723	0.452	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.06	5280.00	56	U-NII-2A	6.0	18.0	17.16	Left	0	0.004	1.213	1.018	0.005	0.003	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.03	5720.00	144	U-NII-2C	6.0	18.0	17.16	Left	0	0.055	1.213	1.018	0.068	0.043	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.05	5785.00	157	U-NII-3	6.0	18.0	17.16	Left	0	0.049	1.213	1.018	0.063	0.038	
Body	5 GHz WFI/ IEEE 802.11a	20	OFDM	WIFI 1	2342M	98.25	-0.06	5865.00	173	U-NII-4	6.0	18.0	17.28	Left	0	0.060	1.180	1.018	0.072	0.045	
ANSI/IEEE C59.1-1992 - SAFETY LIMIT																Body 1.6 W/kg (avg/1g) averaged 6g/6.15cm					
Uncontrolled Exposure/General Population																					

Table 10-16
5 GHz WLAN Ant WIFI 1 Tablet at Reduced Power Level 1 | Plot A3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	0.03	5290.00	58	U-NII-2A	29.3	9.5	8.74	Back	0	N/A	0.077	1.191	1.018	0.093	0.058	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	0.11	5690.00	138	U-NII-2C	29.3	9.5	9.03	Back	0	N/A	0.335	1.114	1.018	0.380	0.238	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	-0.01	5775.00	155	U-NII-3	29.3	9.5	8.79	Back	0	N/A	0.329	1.178	1.018	0.395	0.247	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2342M	98.22	0.01	5855.00	171	U-NII-4	29.3	9.5	8.50	Back	0	N/A	0.316	1.259	1.018	0.405	0.253	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	0.02	5290.00	58	U-NII-2A	29.3	9.5	8.74	Top	0	N/A	0.070	1.191	1.018	0.085	0.053	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	0.07	5690.00	138	U-NII-2C	29.3	9.5	9.03	Top	0	N/A	0.147	1.114	1.018	0.167	0.104	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	-0.07	5775.00	155	U-NII-3	29.3	9.5	8.79	Top	0	N/A	0.195	1.178	1.018	0.234	0.146	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	-0.17	5855.00	171	U-NII-4	29.3	9.5	8.50	Top	0	N/A	0.169	1.259	1.018	0.217	0.136	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	0.17	5290.00	58	U-NII-2A	29.3	9.5	8.74	Right	0	N/A	0.162	1.191	1.018	0.196	0.123	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	-0.02	5530.00	106	U-NII-2C	29.3	9.5	8.76	Right	0	N/A	0.747	1.186	1.018	0.902	0.564	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	-0.14	5610.00	122	U-NII-2C	29.3	9.5	8.50	Right	0	N/A	0.673	1.259	1.018	0.861	0.539	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	0.09	5690.00	138	U-NII-2C	29.3	9.5	9.03	Right	0	N/A	0.915	1.114	1.018	1.038	0.649	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	0.00	5775.00	155	U-NII-3	29.3	9.5	8.79	Right	0	N/A	0.950	1.178	1.018	1.139	0.712	A3
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	0.07	5775.00	155	U-NII-3	29.3	9.5	8.79	Right	0	Keyboard	0.620	1.178	1.018	0.779	0.487	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	-0.01	5775.00	155	U-NII-3	29.3	9.5	8.79	Right	0		1.178	1.018	1.018	1.187	0.711	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	-0.02	5855.00	171	U-NII-4	29.3	9.5	8.50	Right	0	N/A	0.888	1.259	1.018	1.138	0.711	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	2312M	98.22	-0.10	5855.00	171	U-NII-4	29.3	9.5	8.50	Right	0	N/A	0.861	1.358	1.018	1.125	0.706	
ANSI/IEEE C63.1-1992 - 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 10-17
5 GHz WLAN Ant WIFI 1 Laptop

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	
Laptop	5 GHz WiFi/ IEEE 802.11a	20	OFDM	WiFi 1	1062M	98.25	0.01	5280.00	56	U-NII-2A	6.0	18.0	17.16	Bottom	0	0.000	1.213	1.018	0.000	0.000		
Laptop	5 GHz WiFi/ IEEE 802.11a	20	OFDM	WiFi 1	1062M	98.25	0.03	5720.00	144	U-NII-2C	6.0	18.0	17.16	Bottom	0	0.023	1.213	1.018	0.028	0.018		
Laptop	5 GHz WiFi/ IEEE 802.11a	20	OFDM	WiFi 1	1062M	98.25	0.06	5785.00	157	U-NII-3	6.0	18.0	17.16	Bottom	0	0.016	1.213	1.018	0.020	0.013		
Laptop	5 GHz WiFi/ IEEE 802.11a	20	OFDM	WiFi 1	1062M	98.25	0.03	5855.00	173	U-NII-4	6.0	18.0	17.28	Bottom	0	0.003	1.180	1.018	0.004	0.003		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Body					
Spatial Peak																	1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

10.4 5 GHz WLAN MIMO Standalone SAR

Table 10-18
5 GHz WLAN MIMO Tablet Max Power

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1	2342M	98.06	-0.17	5300.00	60	U-NII-2A	6.0	18.0	17.86	18.0	17.22	Back	14	0.114	1.197	1.020	0.139	0.107		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	2	2342M	98.06	0.08	5300.00	60	U-NII-2A	6.0	18.0	17.86	18.0	17.22	Back	14	0.016	1.197	1.020	0.020	0.015		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1	2342M	98.06	-0.08	5720.00	144	U-NII-2C	6.0	18.0	17.99	18.0	16.98	Back	14	0.106	1.265	1.020	0.131	0.100		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	2	2342M	98.06	0.08	5745.00	144	U-NII-2C	6.0	18.0	17.99	18.0	16.98	Back	14	0.108	1.265	1.020	0.139	0.107		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1	2342M	98.06	-0.07	5745.00	149	U-NII-3	6.0	18.0	17.98	18.0	17.11	Back	14	0.109	1.227	1.020	0.187	0.298		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	2	2342M	98.06	0.08	5745.00	149	U-NII-3	6.0	18.0	17.98	18.0	17.11	Back	14	0.106	1.227	1.020	0.131	0.102		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1	2342M	98.06	0.03	5845.00	169	U-NII-4	6.0	18.0	17.40	18.0	17.35	Back	14	0.177	1.161	1.020	0.328	0.253		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	2	2342M	98.06	-0.21	5845.00	169	U-NII-4	6.0	18.0	17.40	18.0	17.35	Back	14	0.118	1.161	1.020	0.140	0.108		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	0.07	5300.00	60	U-NII-2A	6.0	18.0	17.86	18.0	17.22	Top	19	0.056	1.197	1.020	0.068	0.051		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	-0.10	5720.00	144	U-NII-2C	6.0	18.0	17.99	18.0	16.98	Top	19	0.092	1.265	1.020	0.087	0.052		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	0.09	5745.00	149	U-NII-3	6.0	18.0	17.98	18.0	17.11	Top	19	0.087	1.227	1.020	0.084	0.064		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	0.07	5300.00	60	U-NII-2A	6.0	18.0	17.86	18.0	17.22	Bottom	0	0.013	1.197	1.020	0.006	0.004		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	0.06	5300.00	60	U-NII-2A	6.0	18.0	17.86	18.0	17.22	Bottom	0	0.023	1.197	1.020	0.028	0.022		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	0.09	5720.00	144	U-NII-2C	6.0	18.0	17.89	18.0	16.98	Bottom	0	0.049	1.265	1.020	0.053	0.045		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	-0.29	5745.00	149	U-NII-3	6.0	18.0	17.98	18.0	17.11	Bottom	0	0.013	1.227	1.020	0.006	0.001		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	0.02	5845.00	169	U-NII-4	6.0	18.0	17.40	18.0	17.35	Bottom	0	0.047	1.161	1.020	0.056	0.043		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	0.03	5300.00	60	U-NII-2A	6.0	18.0	17.86	18.0	17.22	Right	8	0.087	1.197	1.020	0.106	0.082		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	0.03	5720.00	144	U-NII-2C	6.0	18.0	17.89	18.0	17.22	Right	8	0.087	1.265	1.020	0.106	0.082		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	-0.03	5745.00	149	U-NII-3	6.0	18.0	17.98	18.0	17.11	Right	8	0.611	1.227	1.020	0.765	0.588		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	-0.03	5845.00	169	U-NII-4	6.0	18.0	17.40	18.0	17.35	Right	8	0.622	1.161	1.020	0.757	0.567		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	0.03	5300.00	60	U-NII-2A	6.0	18.0	17.86	18.0	17.22	Left	9	0.511	1.197	1.020	0.582	0.391		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	-0.09	5720.00	144	U-NII-2C	6.0	18.0	17.89	18.0	16.98	Left	9	0.357	1.265	1.020	0.463	0.354		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	-0.02	5745.00	149	U-NII-3	6.0	18.0	17.98	18.0	17.11	Left	9	0.452	1.227	1.020	0.556	0.435		
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	N/A	2342M	98.06	-0.03	5845.00	169	U-NII-4	6.0	18.0	17.40	18.0	17.35	Left	9	0.674	1.161	1.020	0.798	0.614		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							Body 1.6 W/kg (mW/g) averaged over 1 gram		

Note: To achieve the 21 dBm maximum allowed MMC power shown in the documentation, each antenna transmit at a maximum allowed power of 14 dBm.

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

Table 10-19
5 GHz WLAN MIMO Tablet at Reduced Power Level 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	1	2312M	98.18	-0.07	5290.00	58	U-NII-2A	58.5	9.5	8.82	8.5	8.25	Back	0	N/A	0.200	1.134	1.010	0.277	0.170	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	2	2312M	98.18	-0.01	5290.00	58	U-NII-2A	58.5	9.5	8.82	8.5	8.25	Back	0	N/A	0.097	1.134	1.010	0.084	0.040	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	1	2312M	98.18	-0.11	5690.00	58	U-NII-2C	58.5	9.5	9.80	9.5	9.50	Back	0	N/A	0.290	1.300	1.010	0.314	0.170	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	2	2312M	98.18	-0.15	5690.00	58	U-NII-2C	58.5	9.5	9.80	9.5	9.50	Back	0	N/A	0.283	1.148	1.010	0.332	0.200	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	1	2312M	98.18	-0.10	5775.00	55	U-NII-1	58.5	9.5	8.62	8.5	8.60	Back	0	N/A	0.275	1.300	1.010	0.351	0.210	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	2	2312M	98.18	-0.14	5775.00	55	U-NII-3	58.5	9.5	8.62	8.5	8.60	Back	0	N/A	0.281	1.270	1.010	0.345	0.216	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	1	2312M	98.18	-0.06	5855.00	171	U-NII-4A	58.5	9.5	9.11	9.5	9.00	Back	0	N/A	0.376	1.122	1.010	0.430	0.269	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	2	2312M	98.18	-0.09	5855.00	171	U-NII-4A	58.5	9.5	9.11	9.5	8.80	Back	0	N/A	0.281	1.115	1.010	0.280	0.170	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	2312M	98.18	0.13	5290.00	58	U-NII-2A	58.5	9.5	8.82	8.5	8.25	Top	0	N/A	0.083	1.134	1.010	0.113	0.071	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	2312M	98.18	-0.01	5690.00	58	U-NII-2C	58.5	9.5	9.80	9.5	9.50	Top	0	N/A	0.181	1.148	1.010	0.212	0.131	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	2312M	98.18	-0.12	5775.00	55	U-NII-3	58.5	9.5	8.62	8.5	8.60	Top	0	N/A	0.252	1.270	1.010	0.316	0.198	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	2312M	98.18	0.12	5855.00	171	U-NII-4A	58.5	9.5	9.11	9.5	9.00	Top	0	N/A	0.205	1.122	1.010	0.224	0.146	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	2312M	98.18	-0.02	5290.00	58	U-NII-2A	58.5	9.5	8.82	8.5	8.25	Right	0	N/A	0.083	1.134	1.010	0.113	0.071	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	0316M	98.18	-0.06	5330.00	60	U-NII-2C	58.5	9.5	8.75	8.5	8.30	Right	0	N/A	0.557	1.518	1.010	0.748	0.460	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	0316M	98.18	-0.02	5610.00	132	U-NII-3	58.5	9.5	8.62	8.5	8.60	Right	0	N/A	0.581	1.406	1.010	0.623	0.310	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	2312M	98.18	-0.09	5690.00	138	U-NII-2C	58.5	9.5	9.00	9.5	9.00	Right	0	Keyboard	0.586	1.148	1.010	0.608	0.428	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	0316M	98.18	-0.02	5690.00	138	U-NII-2C	58.5	9.5	9.00	9.5	9.00	Right	0	N/A	0.745	1.148	1.010	0.872	0.545	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	0316M	98.18	-0.09	5775.00	138	U-NII-3	58.5	9.5	8.62	8.5	8.60	Right	0	N/A	0.609	1.270	1.010	0.660	0.310	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	0316M	98.18	0.04	5855.00	171	U-NII-4A	58.5	9.5	9.11	9.5	9.00	Right	0	N/A	0.703	1.122	1.010	0.805	0.503	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	0316M	98.18	-0.11	5290.00	58	U-NII-2A	58.5	9.5	8.82	8.5	8.25	Left	0	N/A	0.083	1.134	1.010	0.113	0.071	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	2312M	98.18	-0.04	5690.00	138	U-NII-2C	58.5	9.5	9.00	9.5	9.00	Left	0	N/A	0.325	1.148	1.010	0.380	0.238	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	0316M	98.18	-0.03	5775.00	155	U-NII-1	58.5	9.5	8.62	8.5	8.60	Left	0	N/A	0.351	1.280	1.010	0.440	0.275	
Body	5-GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	N/A	2312M	98.18	-0.01	5690.00	58	U-NII-2A	58.5	9.5	8.82	8.5	8.25	Left	0	N/A	0.137	1.134	1.010	0.162	0.103	
Annex C, Table 19-1: SAR - Safety Limit																									
Antenna Exposure: 1.6 W/kg (enr/g)																									
Unintended Exposure/General Population																									
Spatial Peak																									
Body																									
Averaged over 1 gram																									

Table 10-20
5 GHz WLAN MIMO Tablet at Reduced Power Level 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	2	1052M	98.18	-0.04	5290.00	58	U-NII-2A	58.5	8.0	6.63	8.0	6.52	Back	0	0.030	1.405	1.019	0.043	0.027	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	1	1052M	98.18	0.01	5290.00	58	U-NII-2A	58.5	8.0	6.63	8.0	6.52	Back	0	0.057	1.405	1.019	0.082	0.051	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	2	1052M	98.18	0.06	5690.00	138	U-NII-2C	58.5	8.0	7.45	8.0	6.28	Back	0	0.139	1.486	1.019	0.310	0.331	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	1	1052M	98.18	0.06	5690.00	138	U-NII-2C	58.5	8.0	7.45	8.0	6.28	Back	0	0.067	1.486	1.019	0.160	0.063	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	2	1052M	98.18	0.01	5775.00	155	U-NII-3	58.5	8.0	7.06	8.0	6.14	Back	0	0.115	1.535	1.019	0.180	0.113	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	1	1052M	98.18	0.04	5775.00	155	U-NII-3	58.5	8.0	7.06	8.0	6.14	Back	0	0.107	1.535	1.019	0.167	0.104	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	2	1052M	98.18	0.06	5855.00	171	U-NII-4	58.5	8.0	7.03	8.0	6.09	Back	0	0.108	1.552	1.019	0.171	0.107	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	1	1052M	98.18	-0.08	5855.00	171	U-NII-4	58.5	8.0	7.03	8.0	6.09	Back	0	0.143	1.552	1.019	0.226	0.141	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	N/A	1052M	98.18	0.08	5290.00	58	U-NII-2A	58.5	8.0	6.63	8.0	6.52	Right	0	0.072	1.406	1.019	0.101	0.064	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	N/A	1052M	98.18	0.03	5690.00	138	U-NII-2C	58.5	8.0	7.45	8.0	6.28	Right	0	0.432	1.486	1.019	0.654	0.409	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	N/A	1052M	98.18	0.01	5775.00	155	U-NII-4	58.5	8.0	7.06	8.0	6.14	Right	0	0.424	1.535	1.019	0.663	0.414	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	N/A	1052M	98.18	-0.17	5855.00	171	U-NII-4	58.5	8.0	7.03	8.0	6.09	Right	0	0.447	1.552	1.019	0.707	0.443	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	N/A	1052M	98.18	-0.05	5290.00	58	U-NII-2A	58.5	8.0	6.63	8.0	6.52	Left	0	0.399	1.406	1.019	0.572	0.358	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	N/A	1052M	98.18	0.02	5690.00	138	U-NII-2C	58.5	8.0	7.45	8.0	6.28	Left	0	0.414	1.486	1.019	0.637	0.411	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	N/A	1052M	98.18	0.02	5775.00	155	U-NII-3	58.5	8.0	7.06	8.0	6.14	Left	0	0.466	1.535	1.019	0.729	0.456	
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	N/A	1052M	98.18	-0.05	5855.00	171	U-NII-4	58.5	8.0	7.03	8.0	6.09	Left	0	0.537	1.552	1.019	0.849	0.531	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Body 1.6 W/kg (mW/g) averaged over 1 gram					

Note: To achieve the 11 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 8 dBm.

Table 10-21
5 GHz WLAN MIMO Laptop| Plot A4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #					
Laptop	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	2342M	98.18	-0.03	5290.00	58	U-NII-3A	58.5	9.5	8.92	9.5	8.25	Bottom	0	0.134	1.334	1.019	0.182	0.114						
Laptop	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	2342M	98.18	0.08	5690.00	138	U-NII-2C	58.5	9.5	9.00	9.5	8.90	Bottom	0	0.244	1.148	1.019	0.285	0.178						
Laptop	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	2342M	98.18	0.07	5775.00	155	U-NII-3	58.5	9.5	8.62	9.5	8.60	Bottom	0	0.223	1.230	1.019	0.280	0.175						
Laptop	5 GHz WIFI / IEEE 802.11ac	80	OFDM	MIMO	2342M	98.18	-0.06	5855.00	171	U-NII-4	58.5	9.5	9.11	9.5	9.00	Bottom	0	0.331	1.222	1.019	0.378	0.236	A4					
Laptop	5 GHz WIFI / IEEE 802.11a	20	OFDM	MIMO	0319M	98.06	0.04	5300.00	80	U-NII-2A	6.0	18.0	17.86	18.0	17.22	Bottom	9	0.159	1.197	1.020	0.194	0.121						
Laptop	5 GHz WIFI / IEEE 802.11a	20	OFDM	MIMO	0319M	98.06	-0.05	5720.00	144	U-NII-2C	6.0	18.0	17.99	18.0	16.98	Bottom	9	0.189	1.265	1.020	0.243	0.152						
Laptop	5 GHz WIFI / IEEE 802.11a	20	OFDM	MIMO	0319M	98.06	0.04	5745.00	149	U-NII-3	6.0	18.0	17.98	18.0	17.11	Bottom	9	0.178	1.227	1.020	0.223	0.139						
Laptop	5 GHz WIFI / IEEE 802.11a	20	OFDM	MIMO	0319M	98.06	0.06	5845.00	189	U-NII-4	6.0	18.0	17.40	18.0	17.35	Bottom	9	0.188	1.161	1.020	0.161	0.101						
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Spatial Peak					Body				
Uncontrolled Exposure/General Population																			1.6 W/kg (mW/g)					averaged over 1 gram				

Note: To achieve the 12.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 9.5 dBm.

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

10.5 6 GHz SISO Standalone SAR and APD

Table 10-22
6 GHz WLAN Ant WIFI 0 Tablet Max Power

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	-0.11	6025.00	15	68.1	10.0	9.98	Back	14	0.017	1.005	1.018	0.017	0.011	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.01	6025.00	15	68.1	10.0	9.98	Top	19	0.009	1.005	1.018	0.009	0.006	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.04	6025.00	15	68.1	10.0	9.98	Bottom	0	0.003	1.005	1.018	0.003	0.002	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.09	6025.00	15	68.1	10.0	9.98	Right	0	0.000	1.005	1.018	0.000	0.000	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	-0.05	6025.00	15	68.1	10.0	9.98	Left	9	0.078	1.005	1.018	0.080	0.050	
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.	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)]	APD Exposure Ratio	Plot #
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	-0.11	6025.00	15	68.1	10.0	9.98	Back	14	0.447	1.005	1.018	0.150	0.008	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.01	6025.00	15	68.1	10.0	9.98	Top	19	0.081	1.005	1.018	0.083	0.004	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.04	6025.00	15	68.1	10.0	9.98	Bottom	0	0.017	1.005	1.018	0.018	0.001	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.09	6025.00	15	68.1	10.0	9.98	Right	0	0.001	1.005	1.018	0.001	0.000	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	-0.05	6025.00	15	68.1	10.0	9.98	Left	9	0.602	1.005	1.018	0.616	0.031	

Table 10-23
6 GHz WLAN Ant WIFI 0 Tablet at Reduced Power Level 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	-0.08	6025.00	15	68.1	8.0	6.56	Back	0	N/A	0.453	1.393	1.018	0.642	0.401	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.02	6025.00	15	68.1	8.0	6.56	Back	0	Keyboard	0.014	1.393	1.018	0.048	0.030	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	-0.08	6345.00	79	68.1	8.0	7.02	Back	0	N/A	0.236	1.253	1.018	0.301	0.188	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.03	6505.00	111	68.1	8.0	7.03	Back	0	N/A	0.194	1.250	1.018	0.247	0.154	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.13	6665.00	143	68.1	8.0	8.35	Back	0	N/A	0.086	1.462	1.018	0.128	0.080	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.02	6985.00	207	68.1	8.0	6.50	Back	0	N/A	0.018	1.413	1.018	0.055	0.034	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.03	6025.00	15	68.1	8.0	6.56	Top	0	N/A	0.079	1.393	1.018	0.112	0.070	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.05	6505.00	111	68.1	8.0	7.03	Top	0	N/A	0.024	1.250	1.018	0.031	0.019	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.02	6025.00	15	68.1	8.0	6.56	Left	0	N/A	0.438	1.393	1.018	0.624	0.388	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	1176M	98.21	0.03	6505.00	111	68.1	8.0	7.03	Left	0	N/A	0.244	1.250	1.018	0.310	0.194	
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.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Con
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Table 10-24
6 GHz WLAN Ant WIFI 0 Laptop

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Laptop	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 0	1055M	98.21	-0.07	6025.00	15	68.1	8.0	6.56	Bottom	0	0.106	1.393	1.018	0.150	0.094	
Laptop	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 0	1055M	98.21	0.05	6505.00	111	68.1	8.0	7.03	Bottom	0	0.064	1.250	1.018	0.081	0.051	
Laptop	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 0	0315M	98.21	0.09	6025.00	15	68.1	10.0	9.98	Bottom	9	0.051	1.005	1.018	0.052	0.033	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) averaged over 1 gram

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Laptop	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 0	1055M	98.21	-0.07	6025.00	15	68.1	8.0	6.56	Bottom	0	0.728	1.393	1.018	1.032	0.052	
Laptop	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 0	1055M	98.21	0.05	6505.00	111	68.1	8.0	7.03	Bottom	0	0.420	1.250	1.018	0.534	0.027	
Laptop	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 0	0315M	98.21	0.09	6025.00	15	68.1	10.0	9.98	Bottom	9	0.413	1.005	1.018	0.423	0.021	

Table 10-25
6 GHz WLAN Ant WIFI 1 Tablet Max Power

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.05	6025.00	15	68.1	10.0	9.53	Back	14	0.008	1.114	1.019	0.009	0.006	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.05	6505.00	111	68.1	10.0	9.75	Back	14	0.003	1.059	1.019	0.003	0.002	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.08	6025.00	15	68.1	10.0	9.53	Top	19	0.005	1.114	1.019	0.006	0.004	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.03	6505.00	111	68.1	10.0	9.75	Top	19	0.003	1.059	1.019	0.003	0.002	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.01	6025.00	15	68.1	10.0	9.53	Bottom	0	0.003	1.114	1.019	0.003	0.002	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.07	6505.00	111	68.1	10.0	9.75	Bottom	0	0.000	1.059	1.019	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.03	6025.00	15	68.1	10.0	9.53	Right	8	0.040	1.114	1.019	0.045	0.028	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.07	6505.00	111	68.1	10.0	9.75	Right	8	0.015	1.059	1.019	0.016	0.010	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.06	6025.00	15	68.1	10.0	9.53	Left	0	0.000	1.114	1.019	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.08	6505.00	111	68.1	10.0	9.75	Left	0	0.000	1.059	1.019	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) averaged over 1 gram

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.05	6025.00	15	68.1	10.0	9.53	Back	14	0.064	1.114	1.019	0.073	0.004	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.05	6505.00	111	68.1	10.0	9.75	Back	14	0.031	1.059	1.019	0.033	0.002	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.08	6025.00	15	68.1	10.0	9.53	Top	19	0.053	1.114	1.019	0.060	0.003	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.03	6505.00	111	68.1	10.0	9.75	Top	19	0.018	1.059	1.019	0.019	0.001	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.01	6025.00	15	68.1	10.0	9.53	Bottom	0	0.034	1.114	1.019	0.039	0.002	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.07	6505.00	111	68.1	10.0	9.75	Bottom	0	0.003	1.059	1.019	0.003	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.03	6025.00	15	68.1	10.0	9.53	Right	8	0.116	1.114	1.019	0.359	0.018	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.07	6505.00	111	68.1	10.0	9.75	Right	8	0.114	1.059	1.019	0.123	0.006	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.06	6025.00	15	68.1	10.0	9.53	Left	0	0.006	1.114	1.019	0.007	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.08	6505.00	111	68.1	10.0	9.75	Left	0	0.009	1.059	1.019	0.010	0.001	

Table 10-26
6 GHz WLAN Ant WIFI 1 Tablet at Reduced Power Level 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.06	6025.00	111	68.1	8.0	6.01	Back	0	N/A	0.050	1.581	1.019	0.081	0.051	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	-0.06	6505.00	111	68.1	8.0	7.20	Back	0	N/A	0.018	1.202	1.019	0.022	0.014	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.12	6025.00	15	68.1	8.0	6.01	Top	0	N/A	0.041	1.581	1.019	0.066	0.041	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.05	6505.00	111	68.1	8.0	7.20	Top	0	N/A	0.013	1.202	1.019	0.016	0.010	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.11	6025.00	15	68.1	8.0	6.01	Right	0	N/A	0.251	1.581	1.019	0.404	0.253	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	-0.05	6025.00	15	68.1	8.0	6.01	Right	0	Keyboard	0.199	1.581	1.019	0.321	0.201	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.08	6345.00	79	68.1	8.0	6.82	Right	0	N/A	0.125	1.312	1.019	0.167	0.104	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.08	6505.00	111	68.1	8.0	7.20	Right	0	N/A	0.108	1.202	1.019	0.132	0.083	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.04	6665.00	143	68.1	8.0	6.03	Right	0	N/A	0.089	1.574	1.019	0.143	0.089	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.06	6985.00	207	68.1	8.0	6.11	Right	0	N/A	0.056	1.545	1.019	0.088	0.055	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body 1.6 W/kg (mW/g) Spatial Peak Uncontrolled Exposure/General Population averaged over 1 gram								

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.06	6025.00	15	68.1	8.0	6.01	Back	0	N/A	0.343	1.581	1.019	0.553	0.028	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	-0.06	6505.00	111	68.1	8.0	7.20	Back	0	N/A	0.106	1.202	1.019	0.130	0.007	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.12	6025.00	15	68.1	8.0	6.01	Top	0	N/A	0.282	1.581	1.019	0.454	0.023	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.05	6505.00	111	68.1	8.0	7.20	Top	0	N/A	0.084	1.202	1.019	0.103	0.005	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.11	6025.00	15	68.1	8.0	6.01	Right	0	N/A	1.320	1.581	1.019	1.127	0.106	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	-0.05	6025.00	15	68.1	8.0	6.01	Right	0	Keyboard	1.050	1.581	1.019	1.092	0.085	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.08	6345.00	79	68.1	8.0	6.82	Right	0	N/A	0.655	1.312	1.019	0.876	0.044	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.08	6505.00	111	68.1	8.0	7.20	Right	0	N/A	0.558	1.202	1.019	0.683	0.034	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.04	6665.00	143	68.1	8.0	6.03	Right	0	N/A	0.477	1.574	1.019	0.765	0.038	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WIFI 1	1176M	98.15	0.06	6985.00	207	68.1	8.0	6.11	Right	0	N/A	0.272	1.545	1.019	0.428	0.021	

FCC ID: A3LSMX930	RF Exposure Part 1 Test Report	Approved by: Technical Manager
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Table 10-27
6 GHz WLAN Ant WIFI 1 Laptop

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Laptop	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 1	1172M	98.15	0.06	6025.00	15	68.1	10.0	9.53	Bottom	0	0.000	1.114	1.019	0.000	0.000	
Laptop	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 1	1172M	98.15	0.05	6505.00	111	68.1	10.0	9.75	Bottom	0	0.000	1.059	1.019	0.000	0.000	
ANSI/IEEE C95.1-1992 SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram							

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Laptop	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 1	1172M	98.15	0.08	6025.00	15	68.1	10.0	9.53	Bottom	0	0.000	1.114	1.019	0.000	0.000	
Laptop	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 1	1172M	98.15	0.05	6505.00	111	68.1	10.0	9.75	Bottom	0	0.008	1.059	1.019	0.009	0.000	

10.6 6 GHz MIMO Standalone SAR and APD

Table 10-28
6 GHz WLAN MIMO Tablet Max Power

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	2	1176M	98.17	0.08	6025.00	15	136.1	10.0	9.94	10.0	8.47	Back	14	0.005	1.422	1.019	0.007	0.004	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	1	1176M	98.17	0.05	6025.00	15	136.1	10.0	9.94	10.0	8.47	Back	14	0.022	1.422	1.019	0.032	0.020	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	2	1176M	98.17	0.02	6505.00	111	136.1	10.0	9.65	10.0	9.54	Back	14	0.000	1.112	1.019	0.000	0.000	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	1	1176M	98.17	0.08	6505.00	111	136.1	10.0	9.65	10.0	9.54	Back	14	0.011	1.112	1.019	0.013	0.008	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.07	6025.00	15	136.1	10.0	9.94	10.0	8.47	Top	19	0.008	1.422	1.019	0.012	0.008	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.08	6505.00	111	136.1	10.0	9.65	10.0	9.54	Top	19	0.003	1.112	1.019	0.003	0.002	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.05	6025.00	15	136.1	10.0	9.94	10.0	8.47	Bottom	0	0.001	1.422	1.019	0.003	0.002	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.09	6505.00	111	136.1	10.0	9.65	10.0	9.54	Bottom	0	0.003	1.112	1.019	0.003	0.002	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.03	6025.00	15	136.1	10.0	9.94	10.0	8.47	Right	8	0.032	1.422	1.019	0.046	0.029	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.01	6505.00	111	136.1	10.0	9.65	10.0	9.54	Right	8	0.016	1.112	1.019	0.018	0.011	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.08	6025.00	15	136.1	10.0	9.94	10.0	8.47	Left	9	0.073	1.422	1.019	0.106	0.066	
Body	6 GHz WFI/ IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.03	6505.00	111	136.1	10.0	9.65	10.0	9.54	Left	9	0.043	1.112	1.019	0.049	0.031	
ANSI/IEEE C95.1-1992 SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: To achieve the 13 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10 dBm.

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [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)]	APD Exposure Ratio	Plot #
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	2	1176M	98.17	0.08	6025.00	15	136.1	10.0	9.94	10.0	8.47	Back	14	0.035	1.422	1.019	0.051	0.031	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	1	1176M	98.17	0.05	6025.00	15	136.1	10.0	9.94	10.0	8.47	Back	14	0.179	1.422	1.019	0.219	0.011	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	2	1176M	98.17	0.02	6505.00	111	136.1	10.0	9.65	10.0	9.54	Back	14	0.007	1.112	1.019	0.008	0.000	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	1	1176M	98.17	0.06	6505.00	111	136.1	10.0	9.65	10.0	9.54	Back	14	0.090	1.112	1.019	0.102	0.005	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.07	6025.00	15	136.1	10.0	9.94	10.0	8.47	Top	19	0.014	1.422	1.019	0.107	0.009	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.08	6505.00	111	136.1	10.0	9.65	10.0	9.54	Top	19	0.014	1.112	1.019	0.016	0.001	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.05	6025.00	15	136.1	10.0	9.94	10.0	8.47	Bottom	0	0.021	1.422	1.019	0.030	0.002	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.09	6505.00	111	136.1	10.0	9.65	10.0	9.54	Bottom	0	0.022	1.112	1.019	0.025	0.001	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.03	6025.00	15	136.1	10.0	9.94	10.0	8.47	Right	8	0.248	1.422	1.019	0.361	0.018	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.01	6505.00	111	136.1	10.0	9.65	10.0	9.54	Right	8	0.115	1.112	1.019	0.130	0.007	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.08	6025.00	15	136.1	10.0	9.94	10.0	8.47	Left	9	0.371	1.422	1.019	0.827	0.041	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.03	6505.00	111	136.1	10.0	9.65	10.0	9.54	Left	9	0.123	1.112	1.019	0.166	0.018	

Table 10-29
6 GHz WLAN MIMO Tablet at Reduced Power Level 1| Plot A5

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	1	1176M	98.17	0.02	6025.00	15	136.1	8.0	7.56	8.0	7.00	Back	0	Keyboard	0.043	1.259	1.019	0.055	0.034	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	1	0315M	98.17	0.06	6025.00	15	136.1	8.0	7.56	8.0	7.00	Back	0	N/A	0.504	1.259	1.019	0.647	0.404	A5
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	2	0315M	98.17	0.08	6025.00	15	136.1	8.0	7.56	8.0	7.00	Back	0	N/A	0.043	1.259	1.019	0.055	0.034	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	2	0315M	98.17	0.09	6025.00	15	136.1	8.0	7.56	8.0	7.00	Back	0	Keyboard	0.059	1.259	1.019	0.097	0.031	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	1	1176M	98.17	0.05	6345.00	79	136.1	8.0	7.99	8.0	6.98	Back	0	N/A	0.306	1.265	1.019	0.394	0.246	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	2	1176M	98.17	0.09	6345.00	79	136.1	8.0	7.99	8.0	6.98	Back	0	N/A	0.018	1.265	1.019	0.023	0.014	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	1	1176M	98.17	0.03	6505.00	111	136.1	8.0	7.85	8.0	7.85	Back	0	N/A	0.251	1.035	1.019	0.285	0.166	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	2	1176M	98.17	0.06	6505.00	111	136.1	8.0	7.85	8.0	7.85	Back	0	N/A	0.027	1.035	1.019	0.023	0.014	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	1	1176M	98.17	0.06	6665.00	143	136.1	8.0	7.56	8.0	6.70	Back	0	N/A	0.106	1.349	1.019	0.146	0.091	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	2	1176M	98.17	0.04	6665.00	143	136.1	8.0	7.56	8.0	6.70	Back	0	N/A	0.028	1.349	1.019	0.038	0.024	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	1	1176M	98.17	0.08	6985.00	207	136.1	8.0	7.53	8.0	7.11	Back	0	N/A	0.044	1.227	1.019	0.055	0.034	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	2	1176M	98.17	0.02	6985.00	207	136.1	8.0	7.53	8.0	7.11	Back	0	N/A	0.014	1.227	1.019	0.018	0.011	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.06	6025.00	15	136.1	8.0	7.56	8.0	7.00	Top	0	N/A	0.103	1.259	1.019	0.132	0.083	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.08	6505.00	111	136.1	8.0	7.85	8.0	7.85	Top	0	N/A	0.039	1.035	1.019	0.031	0.019	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.02	6025.00	15	136.1	8.0	7.56	8.0	7.00	Right	0	N/A	0.267	1.035	1.019	0.343	0.214	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.08	6505.00	111	136.1	8.0	7.85	8.0	7.85	Right	0	N/A	0.059	1.035	1.019	0.115	0.072	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	0315M	98.17	0.03	6025.00	15	136.1	8.0	7.56	8.0	7.00	Left	0	N/A	0.359	1.259	1.019	0.461	0.288	
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	MIMO	N/A	1176M	98.17	0.18	6505.00	111	136.1	8.0	7.85	8.0	7.85	Left	0	N/A	0.111	1.035	1.019	0.138	0.086	
ANSI/IEEE C95.1-1992 SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 11 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 8 dBm.

Exposure	Band / Mode	Bandwidth [MHz]</
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Table 10-30
6 GHz WLAN MIMO Laptop | Plot A6

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Laptop	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	MIMO	1055M	98.17	0.04	6025.00	15	136.1	8.0	7.56	8.0	7.60	Bottom	0	0.128	1.259	1.019	0.164	0.103	A6
Laptop	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	MIMO	1055M	98.17	0.07	6025.00	111	136.1	8.0	7.96	8.0	7.96	Bottom	0	0.082	1.035	1.019	0.086	0.054	
Laptop	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	MIMO	0315M	98.17	0.16	6025.00	15	136.1	10.0	9.94	10.0	8.47	Bottom	9	0.094	1.422	1.019	0.064	0.040	
Laptop	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	MIMO	0315M	98.17	0.07	6025.00	111	136.1	10.0	9.65	10.0	9.54	Bottom	9	0.034	1.112	1.019	0.039	0.024	
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: To achieve the 11 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 8 dBm.
Note: To achieve the 13 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10 dBm.

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Laptop	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	MIMO	1055M	98.17	0.04	6025.00	15	136.1	8.0	7.56	8.0	7.60	Bottom	0	0.880	1.259	1.019	1.129	0.056	A6
Laptop	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	MIMO	1055M	98.17	0.07	6025.00	111	136.1	8.0	7.85	8.0	7.96	Bottom	0	0.560	1.035	1.019	0.591	0.030	
Laptop	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	MIMO	0315M	98.17	0.16	6025.00	15	136.1	10.0	9.94	10.0	8.47	Bottom	9	0.371	1.422	1.019	0.538	0.027	
Laptop	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	MIMO	0315M	98.17	0.07	6025.00	111	136.1	10.0	9.65	10.0	9.54	Bottom	9	0.285	1.112	1.019	0.323	0.016	

Note: To achieve the 11 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 8 dBm.
Note: To achieve the 13 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10 dBm.

10.7 Bluetooth SISO Standalone SAR

Table 10-31
Bluetooth Ant WIFI 0 Tablet Max Power

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]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	2342M	76.70	0.03	2402.00	0	1	18.5	17.60	Back	14	0.019	1.230	1.017	0.024	0.015	
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	2342M	76.70	0.01	2402.00	0	1	18.5	17.60	Top	19	0.010	1.230	1.017	0.013	0.008	
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	2342M	76.70	0.02	2402.00	0	1	18.5	17.60	Bottom	0	0.002	1.230	1.017	0.003	0.002	
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	2342M	76.70	0.06	2402.00	0	1	18.5	17.60	Right	0	0.000	1.230	1.017	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	2342M	76.70	0.03	2402.00	0	1	18.5	17.60	Left	9	0.094	1.230	1.017	0.118	0.074	
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 10-32
Bluetooth Ant WIFI 0 Tablet at Reduced Power Level 1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	1062M	76.70	-0.02	2480.00	78	1	11.0	10.94	Back	0	Keyboard	0.034	1.014	1.017	0.035	0.022	
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	2342M	76.70	0.02	2480.00	78	1	11.0	10.94	Back	0	N/A	0.507	1.014	1.017	0.523	0.327	
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	2342M	76.70	-0.08	2480.00	78	1	11.0	10.94	Top	0	N/A	0.251	1.014	1.017	0.259	0.162	
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	2342M	76.70	-0.14	2480.00	78	1	11.0	10.94	Left	0	N/A	0.476	1.014	1.017	0.491	0.307	
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 10-33
Bluetooth Ant WIFI 0 Laptop | Plot A8

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]	Exposure Ratio (1g SAR)	Plot #
Laptop	2.4 GHz Bluetooth	FHSS	WIFI 0	1062M	76.70	0.02	2480.00	78	1	11.0	10.94	Bottom	0	0.151	1.014	1.017	0.156	0.098	A8
Laptop	2.4 GHz Bluetooth	FHSS	WIFI 0	1062M	76.70	0.01	2402.00	0	1	18.5	17.60	Bottom	9	0.014	1.230	1.017	0.018	0.011	
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 10-34
Bluetooth Ant WIFI 1 Tablet Max Power

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]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WiFi 1	2342M	76.70	0.08	2480.00	78	1	17.5	16.63	Back	14	0.029	1.222	1.017	0.036	0.023	
Body	2.4 GHz Bluetooth	FHSS	WiFi 1	2342M	76.70	0.01	2480.00	78	1	17.5	16.63	Top	19	0.004	1.222	1.017	0.005	0.003	
Body	2.4 GHz Bluetooth	FHSS	WiFi 1	2342M	76.70	0.16	2480.00	78	1	17.5	16.63	Bottom	0	0.018	1.222	1.017	0.022	0.014	
Body	2.4 GHz Bluetooth	FHSS	WiFi 1	2342M	76.70	0.00	2480.00	78	1	17.5	16.63	Right	8	0.193	1.222	1.017	0.240	0.150	
Body	2.4 GHz Bluetooth	FHSS	WiFi 1	2342M	76.70	-0.02	2480.00	78	1	17.5	16.63	Left	0	0.000	1.222	1.017	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body						
Spatial Peak													1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population													averaged over 1 gram						

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Table 10-35
Bluetooth Ant WIFI 1 Tablet at Reduced Power Level 1| Plot A7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WIFI 1	2342M	76.70	0.06	2480.00	78	1	11.0	10.73	Back	0	N/A	0.365	1.064	1.017	0.395	0.247	
Body	2.4 GHz Bluetooth	FHSS	WIFI 1	2342M	76.70	0.04	2480.00	78	1	11.0	10.73	Top	0	N/A	0.326	1.064	1.017	0.353	0.221	
Body	2.4 GHz Bluetooth	FHSS	WIFI 1	2342M	76.70	0.03	2480.00	78	1	11.0	10.73	Right	0	N/A	0.660	1.064	1.017	0.744	0.446	A7
Body	2.4 GHz Bluetooth	FHSS	WIFI 1	1062M	76.70	0.01	2480.00	78	1	11.0	10.73	Right	0	Keyboard	0.591	1.064	1.017	0.640	0.400	
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 10-36
Bluetooth Ant WIFI 1 Laptop

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]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WiFi 1	0328M	76.70	0.01	2480.00	78	1	17.5	16.63	Bottom	0	0.000	1.222	1.017	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram							

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10.8 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 447498 D04v01, and FCC KDB Publication 616217 D04v01r02.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. 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.
7. 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.
8. 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°.
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Peak number 1 and 2 correspond to Antenna WIFI 0 and Antenna WIFI 1 of DUT respectively

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/be) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.2.4 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 7.2.5 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 78% transmission duty factor for Bluetooth. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.

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11 POWER DENSITY DATA SUMMARY

11.1 6 GHz WIFI Power Density Results

Table 11-1
6 GHz WLAN IPD -Tablet | Plot A9

MEASUREMENT RESULTS																			
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) (dBm)	Conducted Power (Ant 1) (dBm)	Maximum Allowed Power (Ant 2) (dBm)	Conducted Power (Ant 2) (dBm)	Power DFB (dB)	Spacing (mm)	Antenna Config.	Peak	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479
6025.00	15	802.11ax	OFDM	160	8.00	6.56	N/A	N/A	0.16	2	WIFI 0	N/A	1052M	68.1	Back	98.21	0.05	0.364	1.554
6025.00	15	802.11ax	OFDM	160	N/A	N/A	8.00	6.01	-0.19	2	WIFI 1	N/A	1052M	68.1	Right	98.15	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	8.00	7.56	8.00	7.00	0.08	2	MIMO	1	1052M	136.1	Back	98.17	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	8.00	7.56	8.00	7.00	-0.16	2	MIMO	2	1052M	136.1	Back	98.17	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	8.00	6.56	N/A	N/A	-0.13	9.95	WIFI 0	N/A	1052M	68.1	Back	98.21	0.125	0.164	1.554
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²									

Table 11-2
6 GHz WLAN IPD - Laptop | Plot A10

MEASUREMENT RESULTS																			
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) (dBm)	Conducted Power (Ant 1) (dBm)	Maximum Allowed Power (Ant 2) (dBm)	Conducted Power (Ant 2) (dBm)	Power DFB (dB)	Spacing (mm)	Antenna Config.	Peak	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479
6025.00	15	802.11ax	OFDM	160	8.00	6.56	N/A	N/A	-0.12	2	WIFI 0	1052M	68.1	Bottom	98.21	0.05	-	1.554	1.393
6025.00	15	802.11ax	OFDM	160	N/A	N/A	10.00	9.53	0.15	2	WIFI 1	1052M	68.1	Bottom	98.15	0.05	-	1.554	1.114
6025.00	15	802.11ax	OFDM	160	8.00	7.56	8.00	7.00	0.15	2	MIMO	1052M	136.1	Bottom	98.17	0.05	0.503	1.554	1.259
6025.00	15	802.11ax	OFDM	160	8.00	7.56	8.00	7.00	-0.12	9.95	MIMO	1052M	136.1	Bottom	98.17	0.125	0.450	1.554	1.259
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²									

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.
9. Peak number 1 and 2 correspond to Antenna WIFI 0 and Antenna WIFI 1 of DUT respectively
10. PD testing was conducted using the same worst-case position and configuration as identified in the SAR evaluation, in accordance with the October 2022 TCB Workshop guidance and FCC KDB Publication 388624 D02.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

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

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

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~10% from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.				(mm)		(W/kg)	(W/kg)		(W/kg)		(W/kg)	
2450	2462.00	11	2.4 GHz WiFi/IEEE 802.11b, 22 MHz Bandwidth	DSSS	Back	0	WiFi 0	0.946	0.937	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	0	WiFi 1	0.950	0.948	1.00	N/A	N/A	N/A	N/A
5850	5855.00	171	5 GHz WiFi/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Right	0	WiFi 1	0.888	0.881	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 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	7/9/2024	Annual	7/9/2025	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	12/5/2024	Annual	12/5/2025	US46240505
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	ML2496A	Power Meter	7/15/2024	Annual	7/15/2025	1138001
Anritsu	ML2496A	Power Meter	2/10/2025	Annual	2/10/2026	1351001
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Anritsu	MA24106A	USB Power Sensor	7/10/2024	Annual	7/10/2025	1827530
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Keysight Technologies	N9020A	MXA Signal Analyzer	7/8/2024	Annual	7/8/2025	MY48010233
Agilent	N9020A	MXA Signal Analyzer	7/11/2024	Annual	7/11/2025	MY50200571
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/10/2024	Annual	7/10/2025	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-5+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	22217
Seekonk	NC-100	Torque Wrench	4/2/2024	Biennial	4/2/2026	1262
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/7/2024	Annual	8/7/2025	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
SPEAG	D2450V2	2450 MHz SAR Dipole	8/7/2024	Annual	8/7/2025	719
SPEAG	D2450V2	2450 MHz SAR Dipole	11/7/2024	Annual	11/7/2025	981
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	3/4/2025	Annual	3/4/2026	1002
SPEAG	D5GHzV2	5 GHz SAR Dipole	2/21/2024	Biennial	2/21/2026	1057
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	12/6/2024	Annual	12/6/2025	1018
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2025	Annual	1/13/2026	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2024	Annual	9/10/2025	1449
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/7/2025	Annual	2/7/2026	1638
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/4/2024	Annual	12/4/2025	1213
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/8/2024	Annual	7/8/2025	1583
SPEAG	EX3DV4	SAR Probe	4/8/2025	Annual	4/8/2026	7718
SPEAG	EX3DV4	SAR Probe	1/7/2025	Annual	1/7/2026	7713
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7570
SPEAG	EX3DV4	SAR Probe	3/7/2025	Annual	3/7/2026	7488
SPEAG	EUmmWV4	EUmmWV4 Probe	1/8/2025	Annual	1/8/2026	9389
SPEAG	EX3DV4	SAR Probe	12/5/2024	Annual	12/5/2025	7410
SPEAG	EX3DV4	SAR Probe	6/28/2024	Annual	6/28/2025	7803

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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14 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	∞
Combined Standard Uncertainty (k=1)							RSS 12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2 24.4	24.0	

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

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Applicable for SAR Measurements > 6 GHz:

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

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

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Applicable for Power Density Measurements:

a	b	c	d	e	f = c x f/e	g
Uncertainty Component	Unc. (± dB)	Prob. Dist.	Div.	c _i	u _i (± dB)	v _i
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor Mechanical Offset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedance Dependence	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related						
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)					RSS	1.34
Expanded Uncertainty (95% CONFIDENCE LEVEL)					k=2	2.68

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15 CONCLUSION

15.1 Measurement Conclusion

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

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

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