



RF Exposure Part 1 Test Report

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

Date of Testing:
12/15/2024-04/07/2025
Test Site/Location:
Element, Columbia, MD, USA
Document Serial No.:
1M2412090112-01.C3K (Rev4)

FCC ID: C3K2095

APPLICANT: MICROSOFT CORPORATION

DUT Type: Portable Computing Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model(s): 2095

Equipment Class	Band & Mode	Tx Frequency	SAR
			1g Body (W/kg)
DTS	2.4 GHz WIFI	2412 - 2472 MHz	0.49
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	1.06
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	0.53
DSS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.65
Simultaneous SAR per KDB 690783 D01v01r03:			1.49
Equipment Class	Band & Mode	Tx Frequency	APD (W/m ²) Body
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	3.54
Equipment Class	Band & Mode	Tx Frequency	Reported PD (W/m ²)
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	2.85

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

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 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@mwfai.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. Measurements were performed at a location within Element Materials Technology. Detailed location and accredited information regarding the testing laboratory is provided below.

1.2 Test Laboratories Information

1.2.1 Testing Laboratory 1

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC
Test Lab Location	7185 Oakland Mills Road, Columbia, MD 21046, United States Tel. +1.410.290.6652 / Fax +1.410.290.6654
Accreditation Info.	Lab Code. (ISED): 2451B
	CAB Identifier (NIST): US0110
	ISO/IEC 17025 (A2LA): CERT #2041.01
	 
Measurement System No.	J, Q, O, R, S,

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2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
2.4 GHz WIFI	Data	2412 - 2472 MHz
5 GHz WIFI	Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5850 - 5925 MHz
6 GHz WIFI	Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz

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2.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with the Qualcomm® FastConnect TAS feature for WLAN technologies. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the timeaveraged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® FastConnect TAS feature (report SN could be found in Section 2.9 – Bibliography).

Note that Bluetooth operations are not enabled with TAS.

The FastConnect TAS algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit (i.e., *P_{limit}* for WLAN), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN can be found in Section 2.9 - Bibliography).

FastConnect TAS allows the device to transmit at higher power instantaneously, as high as *P_{max}*, when needed, but enforces power limiting to maintain time-averaged transmit power to *P_{limit}*. Below table shows Final *P_{limit}* settings and maximum tune up output power *P_{max}* configured for this DUT for various transmit conditions (Device State Index DSI for FastConnect.)

SAR CHAR for Plastic Keyboard Type:

Exposure Scenario		Maximum Tune-Up Output Power*	Body
Averaging Volume			1 g
Spacing			0mm
DSI			0
Technology/Band	Antenna	P _{max}	P _{limit}
2.4 GHz WIFI	R	22.5	17.25
2.4 GHz WIFI	L	22.5	18.0
2.4 GHz WIFI	MIMO	22.5	18.0
5 GHz WIFI	R	20.5	16.0
5 GHz WIFI	L	20.5	16.0
5 GHz WIFI	MIMO	20.5	16.0
6 GHz WIFI	R	18.0	12.0
6 GHz WIFI	L	18.0	11.75
6 GHz WIFI	MIMO	18.0	12.0

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SAR CHAR for Metal Keyboard Type:

Exposure Scenario		Maximum Tune-Up Output Power*	Body
Averaging Volume			1g
Spacing			0mm
DSI			0
Technology/Band	Antenna	P _{max}	P _{limit}
2.4 GHz WIFI	R	22.5	17.25
2.4 GHz WIFI	L	22.5	18.0
2.4 GHz WIFI	MIMO	22.5	18.0
5 GHz WIFI	R	20.5	16.0
5 GHz WIFI	L	20.5	16.0
5 GHz WIFI	MIMO	20.5	16.0
6 GHz WIFI	R	18.0	12.0
6 GHz WIFI	L	18.0	11.75
6 GHz WIFI	MIMO	18.0	12.0

Notes:

- Bluetooth operations are not enabled with TAS.
- All MIMO P_{max} and P_{limit} are defined per antenna chain.
- All P_{limit} and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of OFDM modulation schemes (e.g. WLAN).
- The purpose of this report (RF Exposure Part 1 Test Report) is to demonstrate that the DUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

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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 D01v06.

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

2.3.1 2.4 GHz WLAN Output Power

The below table is applicable in the following conditions:

- P_{max}

Band	IEEE 802.11 Modulated Output Power (in dBm)															
	SISO / SISO in MIMO								SISO / SISO in MIMO							
	Antenna R				Antenna L				Antenna R				Antenna L			
Maximum / Nominal Power	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
2.4 GHz WLAN (20 MHz BW)	23.50	22.50	20.50	19.50	19.50	18.50	18.50	18.50	19.50	18.50	18.50	19.50	23.50	22.50	20.50	19.50
	ch. 1: 16.00	ch. 2: 16.00	ch. 3: 16.00	ch. 4: 16.00	ch. 5: 16.00	ch. 6: 16.00	ch. 7: 16.00	ch. 8: 16.00	ch. 9: 16.00	ch. 10: 16.00	ch. 11: 16.00	ch. 12: 16.00	ch. 1: 16.00	ch. 2: 16.00	ch. 3: 16.00	ch. 4: 16.00
	ch. 12: 21.00	ch. 13: 20.00	ch. 14: 19.00	ch. 15: 18.00	ch. 16: 17.00	ch. 17: 16.00	ch. 18: 15.00	ch. 19: 14.00	ch. 20: 13.00	ch. 21: 12.00	ch. 22: 11.00	ch. 23: 10.00	ch. 1: 16.00	ch. 2: 16.00	ch. 3: 16.00	ch. 4: 16.00
	ch. 13: 9.00	ch. 14: 8.00	ch. 15: 7.00	ch. 16: 6.00	ch. 17: 5.00	ch. 18: 4.00	ch. 19: 3.00	ch. 20: 2.00	ch. 21: 1.00	ch. 22: 0.00	ch. 23: -1.00	ch. 24: -2.00	ch. 1: 16.00	ch. 2: 16.00	ch. 3: 16.00	ch. 4: 16.00

The below table is applicable in the following conditions:

- DSI=0 (Body)

Band	IEEE 802.11 Modulated Output Power (in dBm)															
	SISO / SISO in MIMO								SISO / SISO in MIMO							
	Antenna R				Antenna L				Antenna R				Antenna L			
Maximum / Nominal Power	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
2.4 GHz WLAN (20 MHz BW)	18.25	17.25	16.25	15.25	15.25	14.25	14.25	14.25	15.25	14.25	14.25	15.25	18.25	17.25	16.25	15.25
	ch. 1: 16.00	ch. 2: 16.00	ch. 3: 16.00	ch. 4: 16.00	ch. 5: 16.00	ch. 6: 16.00	ch. 7: 16.00	ch. 8: 16.00	ch. 9: 16.00	ch. 10: 16.00	ch. 11: 16.00	ch. 12: 16.00	ch. 1: 16.00	ch. 2: 16.00	ch. 3: 16.00	ch. 4: 16.00
	ch. 12: 14.00	ch. 13: 13.00	ch. 14: 12.00	ch. 15: 11.00	ch. 16: 10.00	ch. 17: 9.00	ch. 18: 8.00	ch. 19: 7.00	ch. 20: 6.00	ch. 21: 5.00	ch. 22: 4.00	ch. 23: 3.00	ch. 1: 16.00	ch. 2: 16.00	ch. 3: 16.00	ch. 4: 16.00
	ch. 13: 9.00	ch. 14: 8.00	ch. 15: 7.00	ch. 16: 6.00	ch. 17: 5.00	ch. 18: 4.00	ch. 19: 3.00	ch. 20: 2.00	ch. 21: 1.00	ch. 22: 0.00	ch. 23: -1.00	ch. 24: -2.00	ch. 1: 16.00	ch. 2: 16.00	ch. 3: 16.00	ch. 4: 16.00

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2.3.2 5 GHz WLAN Output Power

The below table is applicable is applicable in the following conditions:

- Pmax

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO / SISO in MIMO										SISO / SISO in MIMO									
		Antenna R										Antenna L									
		a		n		ac		ax (SU)		bx (SU)		a		n		ac		ax (SU)		bx (SU)	
Maximum / Nominal Power		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	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	UNII-2A	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50
	UNII-2C	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50
		ch. 100: 16.00	15.00	ch. 100: 16.00	15.00	ch. 100: 16.00	15.00	ch. 100: 16.00	15.00	ch. 100: 16.00	15.00	ch. 100: 16.00	15.00	ch. 100: 16.00	15.00	ch. 100: 16.00	15.00	ch. 100: 16.00	15.00	ch. 100: 16.00	15.00
		ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50
		ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50
		ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50
		ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50
		ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50
		ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50
		ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50
5 GHz WiFi (40MHz BW)	UNII-1	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50
	UNII-2A	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50
	UNII-2C	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00
		ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50
		ch. 177: 13.50	12.50	ch. 177: 13.50	12.50	ch. 177: 13.50	12.50	ch. 177: 13.50	12.50	ch. 177: 13.50	12.50	ch. 177: 13.50	12.50	ch. 177: 13.50	12.50	ch. 177: 13.50	12.50	ch. 177: 13.50	12.50	ch. 177: 13.50	12.50
		16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50	16.50	15.50
		ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50
		17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00
		ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00
		17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00
	UNII-3	19.00	18.00	19.00	18.00	19.00	18.00	19.00	18.00	19.00	18.00	19.00	18.00	19.00	18.00	19.00	18.00	19.00	18.00	19.00	18.00
	UNII-4	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50
5 GHz WiFi (80MHz BW)	UNII-1					13.00	12.00	13.00	12.00	13.00	12.00					13.00	12.00	13.00	12.00	13.00	12.00
	UNII-2A					14.00	13.00	14.00	13.00	14.00	13.00					14.00	13.00	14.00	13.00	14.00	13.00
	UNII-2C					17.00	16.00	17.00	16.00	17.00	16.00					17.00	16.00	17.00	16.00	17.00	16.00
						ch. 106: 14.50	13.50	ch. 106: 14.50	13.50	ch. 106: 14.50	13.50					ch. 106: 14.50	13.50	ch. 106: 14.50	13.50	ch. 106: 14.50	13.50
	UNII-3					19.00	18.00	19.00	18.00	19.00	18.00					19.00	18.00	19.00	18.00	19.00	18.00
	UNII-4					18.50	17.50	18.50	17.50	18.50	17.50					18.50	17.50	18.50	17.50	18.50	17.50
	UNII-1/2A					11.00	10.00	11.00	10.00	11.00	10.00					11.00	10.00	11.00	10.00	11.00	10.00
	UNII-2C					8.50	7.50	8.50	7.50	8.50	7.50					8.50	7.50	8.50	7.50	8.50	7.50
	UNII-3/4					12.50	11.50	12.50	11.50	12.50	11.50					12.50	11.50	12.50	11.50	12.50	11.50

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The below table is applicable in the following conditions:

- DSI=0 (Body)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO / SISO in MIMO										SISO / SISO in MIMO									
		Antenna R										Antenna L									
a		n		ac		ax (SU)		be (SU)		a		n		ac		ax (SU)		be (SU)			
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
5 GHz WiFi (20MHz BW)	UNII-1	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	
	UNII-2A	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	
	UNII-2C	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00
		ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50	ch. 104: 15.50	14.50
		ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50	ch. 108: 15.50	14.50
		ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50	ch. 112: 15.50	14.50
		ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50	ch. 116: 15.50	14.50
		ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50	ch. 120: 15.50	14.50
		ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50	ch. 124: 15.50	14.50
		ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50	ch. 128: 15.50	14.50
ch. 132: 15.50	14.50	ch. 132: 15.50	14.50	ch. 132: 15.50	14.50	ch. 132: 15.50	14.50	ch. 132: 15.50	14.50	ch. 132: 15.50	14.50	ch. 132: 15.50	14.50	ch. 132: 15.50	14.50	ch. 132: 15.50	14.50	ch. 132: 15.50	14.50		
ch. 136: 15.50	14.50	ch. 136: 15.50	14.50	ch. 136: 15.50	14.50	ch. 136: 15.50	14.50	ch. 136: 15.50	14.50	ch. 136: 15.50	14.50	ch. 136: 15.50	14.50	ch. 136: 15.50	14.50	ch. 136: 15.50	14.50	ch. 136: 15.50	14.50		
UNII-3	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	
	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	
UNII-4	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	
	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	ch. 173: 13.50	12.50	
5 GHz WiFi (40MHz BW)	UNII-1	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00
	UNII-2A	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50	ch. 38: 13.50	12.50
		16.25	15.25	16.25	15.25	16.25	15.25	16.25	15.25	16.25	15.25	16.25	15.25	16.25	15.25	16.25	15.25	16.25	15.25	16.25	15.25
	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	ch. 62: 14.00	13.00	
	UNII-2C	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00
		ch. 102: 15.00	14.00	ch. 102: 15.00	14.00	ch. 102: 15.00	14.00	ch. 102: 15.00	14.00	ch. 102: 15.00	14.00	ch. 102: 15.00	14.00	ch. 102: 15.00	14.00	ch. 102: 15.00	14.00	ch. 102: 15.00	14.00	ch. 102: 15.00	14.00
	UNII-3	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75
	UNII-4	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00
		16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00
	5 GHz WiFi (80MHz BW)	UNII-1	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00
UNII-2A		14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00
UNII-2C		16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00
UNII-3		ch. 106: 14.50	13.50	ch. 106: 14.50	13.50	ch. 106: 14.50	13.50	ch. 106: 14.50	13.50	ch. 106: 14.50	13.50	ch. 106: 14.50	13.50	ch. 106: 14.50	13.50	ch. 106: 14.50	13.50	ch. 106: 14.50	13.50	ch. 106: 14.50	13.50
UNII-4		16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75
5 GHz WiFi (160MHz BW)	UNII-1/2A	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00
	UNII-2C	8.50	7.50	8.50	7.50	8.50	7.50	8.50	7.50	8.50	7.50	8.50	7.50	8.50	7.50	8.50	7.50	8.50	7.50	8.50	7.50
	UNII-3/4	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50

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2.3.3 6 GHz WLAN Output Power

The below table is applicable is applicable in the following conditions:

- Pmax

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)											
		SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna R						Antenna L					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - SP	UNII-5	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-7	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
6 GHz WIFI (40MHz BW) - SP	UNII-5	ch. 2: 3.5	2.0	ch. 2: 6.0	5.0	ch. 2: 6.0	5.0	ch. 2: 3.5	2.0	ch. 2: 6.0	5.0	ch. 2: 6.0	5.0
	UNII-7	ch. 181: 14.5	13.5	ch. 181: 14.5	13.5	ch. 181: 14.5	13.5	ch. 181: 14.5	13.5	ch. 181: 14.5	13.5	ch. 181: 14.5	13.5
6 GHz WIFI (80MHz BW) - SP	UNII-5			18.0	17.0	18.0	17.0			18.0	17.0	18.0	17.0
	UNII-7			18.0	17.0	18.0	17.0			18.0	17.0	18.0	17.0
6 GHz WIFI (160MHz BW) - SP	UNII-5			19.0	18.0	19.0	18.0			19.0	18.0	19.0	18.0
	UNII-7			ch. 7: 16.0	15.0	ch. 7: 16.0	15.0			ch. 7: 16.0	15.0	ch. 7: 16.0	15.0
6 GHz WIFI (320MHz BW) - SP	UNII-5			16.5	15.5	16.5	15.5			16.5	15.5	16.5	15.5
	UNII-7			ch. 15: 16.0	15.0	ch. 15: 16.0	15.0			ch. 15: 16.0	15.0	ch. 15: 16.0	15.0
6 GHz WIFI (320MHz BW) - SP	UNII-5			16.5	15.5	16.5	15.5			16.5	15.5	16.5	15.5
	UNII-7			16.5	15.5	16.5	15.5			16.5	15.5	16.5	15.5
6 GHz WIFI (320MHz BW) - SP	UNII-5			19.0	18.0	19.0	18.0			19.0	18.0	19.0	18.0
	UNII-7			ch. 31 18.0	17.0	ch. 31 18.0	17.0			ch. 31 18.0	17.0	ch. 31 18.0	17.0

The below table is applicable is applicable in the following conditions:

- DSI=0 (Body)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)											
		SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna R						Antenna L					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - SP	UNII-5	13.0	12.0	13.0	12.0	13.0	12.0	12.5	11.5	12.5	11.5	12.5	11.5
	UNII-7	ch. 2: 3.5	2.0	ch. 2: 6.0	5.0	ch. 2: 6.0	5.0	ch. 2: 3.5	2.0	ch. 2: 6.0	5.0	ch. 2: 6.0	5.0
6 GHz WIFI (40MHz BW) - SP	UNII-5			12.75	11.75	12.75	11.75			12.75	11.75	12.75	11.75
	UNII-7			12.75	11.75	12.75	11.75			12.75	11.75	12.75	11.75
6 GHz WIFI (80MHz BW) - SP	UNII-5			13.0	12.0	13.0	12.0			12.5	11.5	12.5	11.5
	UNII-7			12.75	11.75	12.75	11.75			12.75	11.75	12.75	11.75
6 GHz WIFI (160MHz BW) - SP	UNII-5			13.0	12.0	13.0	12.0			12.5	11.5	12.5	11.5
	UNII-7			12.75	11.75	12.75	11.75			12.75	11.75	12.75	11.75
6 GHz WIFI (320MHz BW) - SP	UNII-5			13.0	12.0	13.0	12.0			12.5	11.5	12.5	11.5
	UNII-7			12.75	11.75	12.75	11.75			12.75	11.75	12.75	11.75
6 GHz WIFI (320MHz BW) - SP	UNII-5			13.0	12.0	13.0	12.0			12.5	11.5	12.5	11.5
	UNII-7			12.75	11.75	12.75	11.75			12.75	11.75	12.75	11.75

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The below table is applicable in the following conditions:

- Pmax
- DSI=0 (Body)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)											
		SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna R						Antenna L					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - LPI	UNII-5	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0
	UNII-6	0.5	-1.0	0.5	-1.0	0.5	-1.0	0.5	-1.0	0.5	-1.0	0.5	-1.0
	UNII-7	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0
	UNII-8	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0	-1.5	-3.0
		ch. 185: 0.5 ch. 233: -3.0	-1.0 -4.5	ch. 185: 0.5 ch. 233: -7.0	-1.0 -8.5	ch. 185: 0.5 ch. 233: -7.0	-1.0 -8.5	ch. 185: 0.5 ch. 233: -3.0	-1.0 -4.5	ch. 185: 0.5 ch. 233: -7.0	-1.0 -8.5	ch. 185: 0.5 ch. 233: -7.0	-1.0 -8.5
6 GHz WIFI (40MHz BW) - LPI	UNII-5			3.0	1.5	3.0	1.5			3.0	1.5	3.0	1.5
	UNII-6			4.0	2.5	4.0	2.5			4.0	2.5	4.0	2.5
	UNII-7			ch. 115: 3.0	1.5	ch. 115: 3.0	1.5			ch. 115: 3.0	1.5	ch. 115: 3.0	1.5
	UNII-8			3.0	1.5	3.0	1.5			3.0	1.5	3.0	1.5
6 GHz WIFI (80MHz BW) - LPI	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-6			ch. 87: 6.0	4.5	ch. 87: 6.0	4.5			ch. 87: 6.0	4.5	ch. 87: 6.0	4.5
	UNII-7			6.5	5.5	6.5	5.5			6.5	5.5	6.5	5.5
	UNII-8			6.0	4.5	6.0	4.5			6.0	4.5	6.0	4.5
6 GHz WIFI (160MHz BW) - LPI	UNII-5			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-6			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-7			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-8			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
6 GHz WIFI (320MHz BW) - LPI	UNII-5					11.0	10.0					11.0	10.0
	UNII-6					11.0	10.0					11.0	10.0
	UNII-7					11.0	10.0					11.0	10.0
	UNII-8					11.0	10.0					11.0	10.0

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2.3.4 2.4 GHz Maximum Bluetooth Output Power

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Beam Forming Mode	
		Antenna R		Antenna L		Beam Forming	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	20.5	18.5	20.5	18.5	15.5	13.5
Bluetooth EDR	2Mbps	17.5	15.5	17.5	15.5	12.5	10.5
Bluetooth EDR	3Mbps	17.5	15.5	17.5	15.5	12.5	10.5
Bluetooth LE	1Mbps	19.5	17.5	19.5	17.5	16.5	14.5
Bluetooth LE	2Mbps	19.5	17.5	19.5	17.5	12.5	10.5
Bluetooth LE	125kbps	12.5	10.5	12.5	10.5	12.5	10.5
Bluetooth LE	500kbps	12.5	10.5	12.5	10.5	12.5	10.5

The below table is applicable in the following conditions:

- WLAN Active

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Beam Forming Mode	
		Antenna R		Antenna L		Beam Forming	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	14.0	12.0	14.75	12.75	12.5	10.5
Bluetooth EDR	2Mbps	14.0	12.0	14.75	12.75	11.0	9.0
Bluetooth EDR	3Mbps	14.0	12.0	14.75	12.75	11.0	9.0
Bluetooth LE	1Mbps	14.0	12.0	14.75	12.75	11.0	9.0
Bluetooth LE	2Mbps	14.0	12.0	14.75	12.75	11.0	9.0
Bluetooth LE	125kbps	12.5	10.5	12.50	10.5	11.0	9.0
Bluetooth LE	500kbps	12.5	10.5	12.50	10.5	11.0	9.0

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2.4 DUT Antenna Locations

The overall dimensions of this device are > 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

Antenna	Back	Front	Top	Bottom	Right	Left
R	No	No	No	Yes	No	No
L	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 2-2
Simultaneous Transmission Scenarios**

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

1. 2.4 GHz WLAN Antenna R and 2.4 GHz Bluetooth Ant R share the same antenna path and cannot transmit simultaneously.
2. 2.4 GHz WLAN Antenna L and 2.4 GHz Bluetooth Ant L share the same antenna path and cannot transmit simultaneously.
3. 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.

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4. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax/be. 802.11a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
5. This device supports Bluetooth Tethering.

2.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

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

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

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. FCC KDB 648474 and FCC KDB 248227 were followed for test positions, distances, and modes. Per TCB workshop October 2020 notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (iPD) between d=2mm and d= λ /5mm is ≥ -1 dB 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
- IEC 62479:2010

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- SPEAG DASY6 System Handbook
- IEC/IEEE 63195-1:2022
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCBC Workshop Notes

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.

2.9 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1M2412090112-02.C3K
RF Exposure Part 2 Test Report	1M2412090112-03.C3K
RF Exposure Compliance Summary Report	1M2412090112-04.C3K

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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 Device Under Test (DUT). 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.

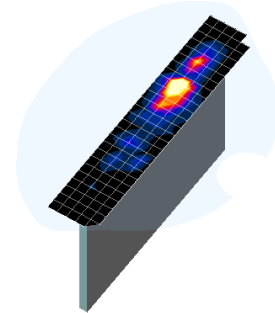


Figure 4-1
Sample SAR Area Scan

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

*Also compliant to IEEE 1528-2013 Table 6

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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, When antennas are incorporated in the keyboard section of a device, SAR is required for the bottom surface of the keyboard. 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.

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6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

6.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

6.3 RF Exposure Limits for Frequencies Below 6 GHz

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

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <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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6.4 RF Exposure Limits for Frequencies Above 6 GHz

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

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

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

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

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

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7 FCC MEASUREMENT PROCEDURES

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 Measured P_{Limit} Average RF Power Plastic Material Type for DSI = 0 – Antenna R

2.4GHz WIFI (20MHz 802.11b SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.30
2437	6		17.56
2462	11		17.38
2.4GHz WIFI (20MHz 802.11g SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.86
2417	2		17.65
2437	6		17.53
2457	10		17.51
2462	11		14.76
2.4GHz WIFI (20MHz 802.11n SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.39
2417	2		17.66
2437	6		17.54
2457	10		17.56
2462	11		14.75
2.4GHz WIFI (20MHz 802.11ac SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.38
2417	2		17.69
2437	6		17.56
2457	10		17.61
2462	11		14.77
2.4GHz WIFI (20MHz 802.11ax SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.54
2417	2		17.87
2437	6		17.99
2457	10		17.67
2462	11		14.84
2.4GHz WIFI (20MHz 802.11be SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.53
2417	2		17.85
2437	6		17.30
2457	10		17.75
2462	11		14.83

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Table 8-2
2.4 GHz WLAN Measured P_{Limit} Average RF Power Metal Material Type for DSI = 0 – Antenna R

2.4GHz WIFI (20MHz 802.11b SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.28
2437	6		17.52
2462	11		17.35
2.4GHz WIFI (20MHz 802.11g SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.88
2417	2		17.47
2437	6		17.48
2457	10		17.53
2462	11		14.70
2.4GHz WIFI (20MHz 802.11n SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.39
2417	2		17.71
2437	6		17.51
2457	10		17.55
2462	11		14.80
2.4GHz WIFI (20MHz 802.11ac SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.30
2417	2		17.72
2437	6		17.72
2457	10		17.58
2462	11		14.81
2.4GHz WIFI (20MHz 802.11ax SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.60
2417	2		17.81
2437	6		17.78
2457	10		17.73
2462	11		14.89
2.4GHz WIFI (20MHz 802.11be SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.75
2417	2		17.79
2437	6		17.78
2457	10		17.79
2462	11		14.95

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Table 8-3
2.4 GHz WLAN Measured P_{Limit} Average RF Power Plastic Material Type for DSI = 0 – Antenna L

2.4GHz WIFI (20MHz 802.11b SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	18.34
2437	6		18.15
2462	11		18.41
2.4GHz WIFI (20MHz 802.11g SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.20
2417	2		18.74
2437	6		18.75
2457	10		18.83
2462	11		14.89
2.4GHz WIFI (20MHz 802.11n SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.76
2417	2		18.74
2437	6		18.81
2457	10		18.78
2462	11		14.89
2.4GHz WIFI (20MHz 802.11ac SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.74
2417	2		18.76
2437	6		18.85
2457	10		18.79
2462	11		14.90
2.4GHz WIFI (20MHz 802.11ax SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.89
2417	2		18.75
2437	6		18.98
2457	10		18.79
2462	11		14.98
2.4GHz WIFI (20MHz 802.11be SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.88
2417	2		18.75
2437	6		18.62
2457	10		18.79
2462	11		14.97

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Table 8-4
2.4 GHz WLAN Measured P_{Limit} Average RF Power Metal Material Type for DSI = 0 – Antenna L

2.4GHz WIFI (20MHz 802.11b SISO ANT L)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	18.31
2437	6		18.24
2462	11		18.44
2.4GHz WIFI (20MHz 802.11g SISO ANT L)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.10
2417	2		18.37
2437	6		18.56
2457	10		18.33
2462	11		14.75
2.4GHz WIFI (20MHz 802.11n SISO ANT L)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.80
2417	2		18.61
2437	6		18.78
2457	10		18.58
2462	11		14.92
2.4GHz WIFI (20MHz 802.11ac SISO ANT L)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.62
2417	2		18.60
2437	6		18.78
2457	10		18.60
2462	11		14.93
2.4GHz WIFI (20MHz 802.11ax SISO ANT L)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.68
2417	2		18.61
2437	6		18.77
2457	10		18.60
2462	11		14.98
2.4GHz WIFI (20MHz 802.11be SISO ANT L)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.79
2417	2		18.62
2437	6		18.78
2457	10		18.58
2462	11		15.01

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Table 8-5
2.4 GHz WLAN Measured P_{Limit} Average RF Power Plastic Material Type for DSI = 0 – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
112	1	Average	17.71	18.26	21.00
137	6		17.87	17.60	20.75
162	11		17.28	18.21	20.78
2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
112	1	Average	14.69	15.13	17.93
117	2		17.78	17.60	20.70
137	6		18.20	17.89	21.06
157	10		17.70	17.65	20.69
162	11		14.77	14.95	17.87
2.4GHz WIFI (20MHz 802.11n MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
112	1	Average	15.24	15.68	18.48
117	2		17.85	17.65	20.76
137	6		18.09	17.90	21.01
157	10		17.71	17.65	20.69
162	11		14.63	14.82	17.74
2.4GHz WIFI (20MHz 802.11ac MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
112	1	Average	15.23	15.69	18.48
117	2		17.86	17.62	20.75
137	6		18.24	17.87	21.07
157	10		17.75	17.65	20.71
162	11		14.63	14.82	17.74
2.4GHz WIFI (20MHz 802.11ax MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
112	1	Average	15.36	15.81	18.60
117	2		17.96	17.72	20.85
137	6		17.76	17.55	20.67
157	10		17.78	17.69	20.75
162	11		14.68	14.88	17.79
2.4GHz WIFI (20MHz 802.11be MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
112	1	Average	16.25	16.20	19.24
117	2		17.96	17.74	20.86
137	6		17.81	17.96	20.90
157	10		17.79	17.73	20.77
162	11		15.24	15.12	18.19

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Table 8-6
2.4 GHz WLAN Measured P_{Limit} Average RF Power Metal Material Type for DSI = 0 – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
2412	1	Average	17.98	17.95	20.98
2437	6		17.86	17.96	20.92
2462	11		17.50	18.10	20.82
2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
2412	1	Average	14.60	15.04	17.84
2417	2		17.44	17.16	20.31
2437	6		17.98	17.75	20.88
2457	10		17.45	17.11	20.29
2462	11		14.97	14.67	17.83
2.4GHz WIFI (20MHz 802.11n MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
2412	1	Average	14.70	15.23	17.98
2417	2		17.66	17.45	20.57
2437	6		18.21	18.12	21.18
2457	10		17.72	17.44	20.59
2462	11		14.72	14.87	17.81
2.4GHz WIFI (20MHz 802.11ac MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
2412	1	Average	15.20	15.82	18.53
2417	2		17.68	17.45	20.58
2437	6		18.22	18.12	21.18
2457	10		17.70	17.41	20.57
2462	11		14.67	14.89	17.79
2.4GHz WIFI (20MHz 802.11ax MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
2412	1	Average	15.41	15.93	18.69
2417	2		17.78	17.51	20.66
2437	6		17.77	17.57	20.68
2457	10		17.77	17.48	20.64
2462	11		14.75	14.96	17.87
2.4GHz WIFI (20MHz 802.11be MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT R	ANT L	MIMO
2412	1	Average	16.12	15.97	19.06
2417	2		17.77	17.50	20.65
2437	6		17.76	17.58	20.68
2457	10		17.78	17.50	20.65
2462	11		15.25	14.96	18.12

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Table 8-7

5 GHz WLAN Measured P_{Limit} Average RF Power Plastic Material Type for DSI = 0 – Antenna R

5GHz WIFI (40MHz 802.11n SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.52
	5230	46	15.68
UNII-2A	5270	54	15.46
	5310	62	13.13
5GHz WIFI (40MHz 802.11ac SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.51
	5230	46	15.52
UNII-2A	5270	54	15.46
	5310	62	13.14
5GHz WIFI (40MHz 802.11ax SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.50
	5230	46	15.52
UNII-2A	5270	54	15.47
	5310	62	13.12
5GHz WIFI (40MHz 802.11be SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.50
	5230	46	15.51
UNII-2A	5270	54	15.45
	5310	62	13.10

5GHz WIFI (80MHz 802.11ac SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.02
	5610	122	15.00
	5690	138	15.03
UNII-3	5775	155	15.76
UNII-4	5885	171	15.80
5GHz WIFI (80MHz 802.11ax SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.08
	5610	122	15.04
	5690	138	15.05
UNII-3	5775	155	15.75
UNII-4	5885	171	15.80
5GHz WIFI (80MHz 802.11be SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.11
	5610	122	15.05
	5690	138	15.07
UNII-3	5775	155	15.75
UNII-4	5885	171	15.86

Table 8-8

5 GHz WLAN Measured P_{Limit} Average RF Power Metal Material Type for DSI = 0 – Antenna R

5GHz WIFI (40MHz 802.11n SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.74
	5230	46	15.72
UNII-2A	5270	54	15.65
	5310	62	12.97
5GHz WIFI (40MHz 802.11ac SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.71
	5230	46	15.69
UNII-2A	5270	54	15.62
	5310	62	12.96
5GHz WIFI (40MHz 802.11ax SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.69
	5230	46	15.72
UNII-2A	5270	54	15.65
	5310	62	12.97
5GHz WIFI (40MHz 802.11be SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.72
	5230	46	15.72
UNII-2A	5270	54	15.66
	5310	62	12.96

5GHz WIFI (80MHz 802.11ac SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.20
	5610	122	15.21
	5690	138	15.46
UNII-3	5775	155	16.01
UNII-4	5885	171	15.97
5GHz WIFI (80MHz 802.11ax SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.32
	5610	122	15.22
	5690	138	15.54
UNII-3	5775	155	15.70
UNII-4	5885	171	15.73
5GHz WIFI (80MHz 802.11be SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.24
	5610	122	15.25
	5690	138	15.15
UNII-3	5775	155	15.80
UNII-4	5885	171	15.91

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Table 8-9

5 GHz WLAN Measured P_{Limit} Average RF Power Plastic Material Type for DSI = 0 – Antenna L

5GHz WIFI (40MHz 802.11n SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.89
	5230	46	15.47
UNII-2A	5270	54	14.90
	5310	62	13.34
5GHz WIFI (40MHz 802.11ac SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.89
	5230	46	15.33
UNII-2A	5270	54	14.90
	5310	62	13.36
5GHz WIFI (40MHz 802.11ax SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.84
	5230	46	15.31
UNII-2A	5270	54	14.82
	5310	62	13.36
5GHz WIFI (40MHz 802.11be SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.80
	5230	46	15.31
UNII-2A	5270	54	14.82
	5310	62	13.33

5GHz WIFI (80MHz 802.11ac SISO ANT L)			
Band	Freq.	Channel	Avg. Conducted
UNII-2C	5530	106	13.10
	5610	122	14.52
	5690	138	14.53
UNII-3	5775	155	14.82
UNII-4	5885	171	15.30
5GHz WIFI (80MHz 802.11ax SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.23
	5610	122	14.53
	5690	138	14.54
UNII-3	5775	155	15.74
UNII-4	5885	171	15.94
5GHz WIFI (80MHz 802.11be SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.20
	5610	122	14.52
	5690	138	14.60
UNII-3	5775	155	14.95
UNII-4	5885	171	15.44

Table 8-10

5 GHz WLAN Measured P_{Limit} Average RF Power Metal Material Type for DSI = 0 – Antenna L

5GHz WIFI (40MHz 802.11n SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.49
	5230	46	15.55
UNII-2A	5270	54	14.65
	5310	62	13.28
5GHz WIFI (40MHz 802.11ac SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.53
	5230	46	15.14
UNII-2A	5270	54	14.63
	5310	62	13.25
5GHz WIFI (40MHz 802.11ax SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.54
	5230	46	15.08
UNII-2A	5270	54	14.62
	5310	62	13.28
5GHz WIFI (40MHz 802.11be SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.57
	5230	46	15.07
UNII-2A	5270	54	14.65
	5310	62	13.27

5GHz WIFI (80MHz 802.11ac SISO ANT L)			
Band	Freq.	Channel	Avg. Conducted
UNII-2C	5530	106	12.59
	5610	122	14.66
	5690	138	14.70
UNII-3	5775	155	15.18
UNII-4	5885	171	15.56
5GHz WIFI (80MHz 802.11ax SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.94
	5610	122	14.95
	5690	138	14.77
UNII-3	5775	155	16.01
UNII-4	5885	171	16.10
5GHz WIFI (80MHz 802.11be SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.96
	5610	122	14.91
	5690	138	14.73
UNII-3	5775	155	15.21
UNII-4	5885	171	15.67

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Table 8-11

5 GHz WLAN Measured P_{Limit} Average RF Power Plastic Material Type for DSI = 0 – MIMO

5GHz WIFI (40MHz 802.11n MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-1	5190	38	12.89	12.89	15.90
	5230	46	15.41	15.26	18.35
UNII-2A	5270	54	15.49	15.20	18.36
	5310	62	13.59	13.41	16.51
5GHz WIFI (40MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-1	5190	38	12.86	12.86	15.87
	5230	46	15.39	15.27	18.34
UNII-2A	5270	54	15.49	15.19	18.35
	5310	62	13.56	13.37	16.48
5GHz WIFI (40MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-1	5190	38	12.85	12.85	15.86
	5230	46	15.34	15.27	18.32
UNII-2A	5270	54	15.53	15.21	18.38
	5310	62	13.56	13.39	16.49
5GHz WIFI (40MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-1	5190	38	12.86	12.86	15.87
	5230	46	15.41	15.34	18.39
UNII-2A	5270	54	15.40	15.19	18.31
	5310	62	13.55	13.39	16.48

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-2C	5530	106	14.01	13.74	16.89
	5610	122	14.77	14.56	17.68
UNII-3	5690	138	14.74	14.38	17.57
	5775	155	15.95	15.55	18.76
UNII-4	5885	171	16.26	16.14	19.21
5GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-2C	5530	106	14.12	13.81	16.98
	5610	122	14.83	14.67	17.76
UNII-3	5690	138	14.79	14.51	17.66
	5775	155	15.99	15.62	18.82
UNII-4	5885	171	16.41	16.18	19.31
5GHz WIFI (80MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-2C	5530	106	14.07	13.84	16.97
	5610	122	14.86	14.62	17.75
UNII-3	5690	138	14.76	14.53	17.66
	5775	155	16.02	15.65	18.85
UNII-4	5885	171	16.41	16.19	19.31

Table 8-12

5 GHz WLAN Measured P_{Limit} Average RF Power Metal Material Type for DSI = 0 – MIMO

5GHz WIFI (40MHz 802.11n MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-1	5190	38	12.69	12.54	15.63
	5230	46	15.39	15.22	18.32
UNII-2A	5270	54	15.04	15.18	18.12
	5310	62	13.03	13.31	16.18
5GHz WIFI (40MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-1	5190	38	12.69	12.55	15.63
	5230	46	15.18	15.15	18.18
UNII-2A	5270	54	15.12	15.16	18.15
	5310	62	12.98	13.32	16.16
5GHz WIFI (40MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-1	5190	38	12.68	12.54	15.62
	5230	46	15.21	15.15	18.19
UNII-2A	5270	54	15.08	15.18	18.14
	5310	62	12.98	13.30	16.15
5GHz WIFI (40MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-1	5190	38	12.69	12.56	15.64
	5230	46	15.24	15.05	18.16
UNII-2A	5270	54	15.10	15.27	18.20
	5310	62	12.99	13.30	16.16

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-2C	5530	106	13.52	13.42	16.48
	5610	122	14.66	14.39	17.54
UNII-3	5690	138	14.43	14.22	17.34
	5775	155	15.75	15.65	18.71
UNII-4	5885	171	16.21	16.13	19.18
5GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-2C	5530	106	13.71	13.49	16.61
	5610	122	14.71	14.41	17.57
UNII-3	5690	138	14.56	14.27	17.43
	5775	155	15.79	15.78	18.80
UNII-4	5885	171	16.30	16.27	19.30
5GHz WIFI (80MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-2C	5530	106	13.74	13.55	16.66
	5610	122	14.71	14.47	17.60
UNII-3	5690	138	14.43	14.28	17.37
	5775	155	15.74	15.71	18.74
UNII-4	5885	171	16.32	16.23	19.29

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Table 8-13
6 GHz WLAN Measured P_{Limit} Average RF Power Plastic Material Type for DSI = 0 – Antenna R

6GHz WIFI (160MHz 802.11ax SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	12.02
	6345	79	12.37
UNII-7	6665	143	12.10
6GHz WIFI (160MHz 802.11be SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	12.00
	6345	79	12.00
UNII-7	6665	143	12.20
6GHz WIFI (320MHz 802.11be SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6425	95	10.08
UNII-8	6905	191	10.13

Table 8-14
6 GHz WLAN Measured P_{Limit} Average RF Power Metal Material Type for DSI = 0 – Antenna R

6GHz WIFI (160MHz 802.11ax SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	12.41
	6345	79	12.68
UNII-7	6665	143	12.01
6GHz WIFI (160MHz 802.11be SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	12.64
	6345	79	12.36
UNII-7	6665	143	11.78
6GHz WIFI (320MHz 802.11be SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6425	95	10.52
UNII-8	6905	191	10.22

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Table 8-15
6 GHz WLAN Measured P_{Limit} Average RF Power Plastic Material Type for DSI = 0 – Antenna L

6GHz WIFI (160MHz 802.11ax SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.60
	6345	79	11.88
UNII-7	6665	143	12.10
6GHz WIFI (160MHz 802.11be SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.56
	6345	79	11.50
UNII-7	6665	143	12.00
6GHz WIFI (320MHz 802.11be SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6425	95	10.28
UNII-8	6905	191	10.24

Table 8-16
6 GHz WLAN Measured P_{Limit} Average RF Power Metal Material Type for DSI = 0 – Antenna L

6GHz WIFI (160MHz 802.11ax SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.52
	6345	79	11.74
UNII-7	6665	143	11.96
6GHz WIFI (160MHz 802.11be SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.49
	6345	79	11.69
UNII-7	6665	143	11.90
6GHz WIFI (320MHz 802.11be SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6425	95	10.49
UNII-8	6905	191	9.88

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Table 8-17
6 GHz WLAN Measured P_{Limit} Average RF Power Plastic Material Type for DSI = 0 – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-5	6025	15	12.00	12.03	15.03
	6345	79	12.38	12.24	15.32
UNII-7	6665	143	12.37	12.51	15.45
6GHz WIFI (160MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-5	6025	15	12.00	11.92	14.97
	6345	79	12.24	12.18	15.22
UNII-7	6665	143	12.47	12.53	15.51
6GHz WIFI (320MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-6	6425	95	10.36	10.45	13.42
UNII-8	6905	191	10.20	10.56	13.39

Table 8-18
6 GHz WLAN Measured P_{Limit} Average RF Power Metal Material Type for DSI = 0 – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-5	6025	15	12.22	11.55	14.91
	6345	79	12.46	12.20	15.34
UNII-7	6665	143	12.42	12.22	15.33
6GHz WIFI (160MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-5	6025	15	12.13	11.47	14.82
	6345	79	12.43	12.21	15.33
UNII-7	6665	143	12.32	11.92	15.13
6GHz WIFI (320MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT R	ANT L	MIMO
UNII-6	6425	95	10.35	10.43	13.40
UNII-8	6905	191	10.19	9.83	13.02

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.

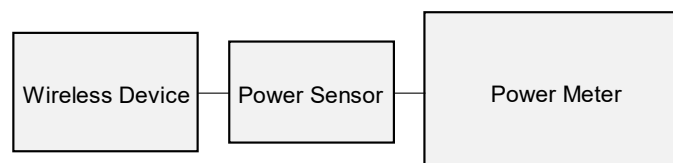


Figure 8-1
Power Measurement Setup

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8.2 Bluetooth Conducted Powers

Table 8-19
Bluetooth WLAN Inactive Average RF Power Plastic Material Type – Antenna R

Frequency [MHz]	Channel No.	Avg Conducted Power	
		[dBm]	[mW]
2402	0	18.55	71.614
2441	39	19.01	79.616
2480	78	18.94	78.343

Table 8-20
Bluetooth WLAN Inactive Average RF Power Metal Material Type – Antenna R

Frequency [MHz]	Channel No.	Avg Conducted Power	
		[dBm]	[mW]
2402	0	18.53	71.285
2441	39	19.00	79.433
2480	78	18.72	74.473

Table 8-21
Bluetooth WLAN Inactive Average RF Power Plastic Material Type – Antenna L

Frequency [MHz]	Channel No.	Avg Conducted Power	
		[dBm]	[mW]
2402	0	18.92	77.983
2441	39	19.73	93.972
2480	78	19.01	79.616

Table 8-22
Bluetooth WLAN Inactive Average RF Power Metal Material Type – Antenna L

Frequency [MHz]	Channel No.	Avg Conducted Power	
		[dBm]	[mW]
2402	0	18.70	74.131
2441	39	19.38	86.696
2480	78	18.77	75.336

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Table 8-23

Bluetooth WLAN Active Average RF Power Plastic Material Type – Antenna R

Frequency [MHz]	Channel No.	Avg Conducted Power	
		[dBm]	[mW]
2402	0	13.24	21.086
2441	39	13.94	24.774
2480	78	13.82	24.099

Table 8-24

Bluetooth WLAN Active Average RF Power Metal Material Type – Antenna R

Frequency [MHz]	Channel No.	Avg Conducted Power	
		[dBm]	[mW]
2402	0	13.32	21.478
2441	39	13.62	23.014
2480	78	13.59	22.856

Table 8-25

Bluetooth WLAN Active Average RF Power Plastic Material Type – Antenna L

Frequency [MHz]	Channel No.	Avg Conducted Power	
		[dBm]	[mW]
2402	0	13.92	24.660
2441	39	14.42	27.669
2480	78	14.14	25.942

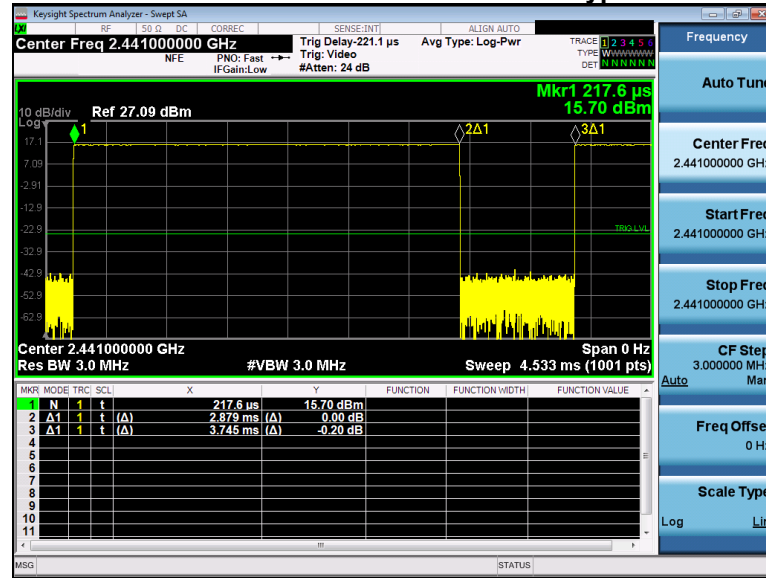
Table 8-26

Bluetooth WLAN Active Average RF Power Metal Material Type – Antenna L

Frequency [MHz]	Channel No.	Avg Conducted Power	
		[dBm]	[mW]
2402	0	13.67	23.281
2441	39	14.46	27.925
2480	78	13.85	24.266

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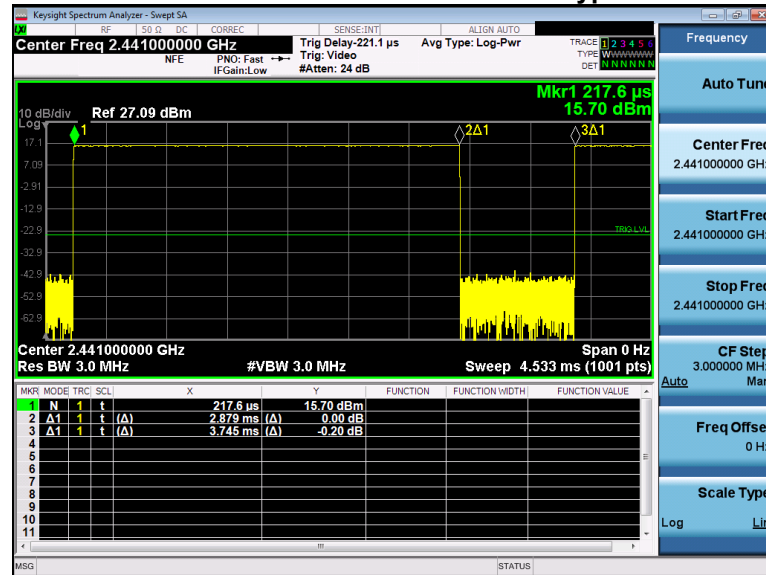
Figure 8-2
Bluetooth Transmission Plot Plastic Material Type – Antenna R



Equation 8-1
Bluetooth Antenna R Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.88\text{ms}}{3.75\text{ms}} * 100\% = 76.80\%$$

Figure 8-3
Bluetooth Transmission Plot Metal Material Type – Antenna R

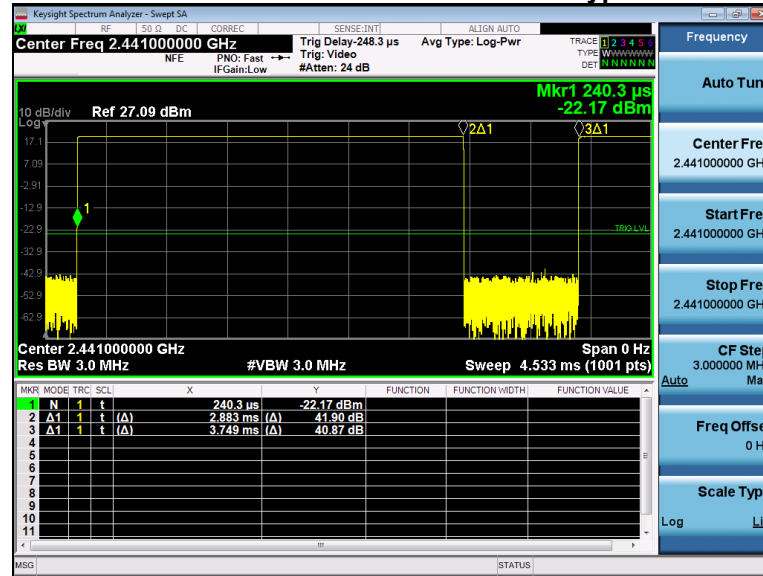


Equation 8-2
Bluetooth Antenna R Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.88\text{ms}}{3.75\text{ms}} * 100\% = 76.80\%$$

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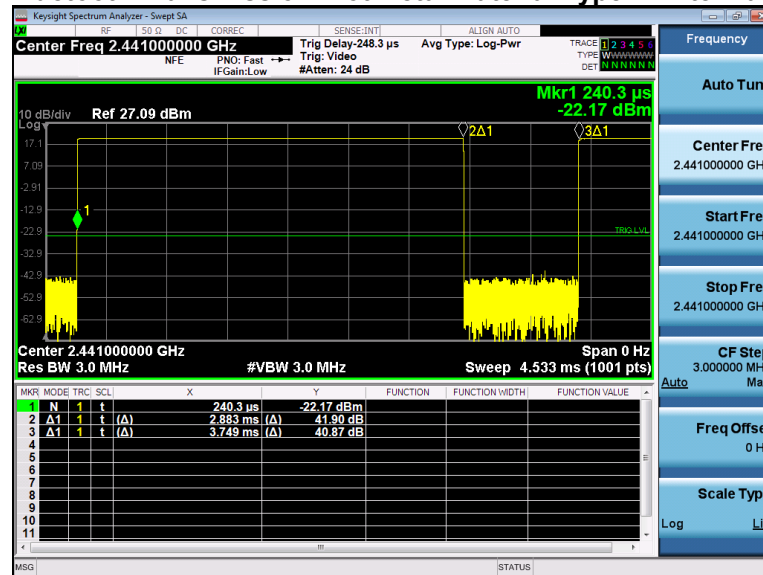
Figure 8-4
Bluetooth Transmission Plot Plastic Material Type – Antenna L



Equation 8-3
Bluetooth Antenna L Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.88\text{ms}}{3.75\text{ms}} * 100\% = 76.80\%$$

Figure 8-5
Bluetooth Transmission Plot Metal Material Type – Antenna L



Equation 8-4
Bluetooth Antenna L Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.88\text{ms}}{3.75\text{ms}} * 100\% = 76.80\%$$

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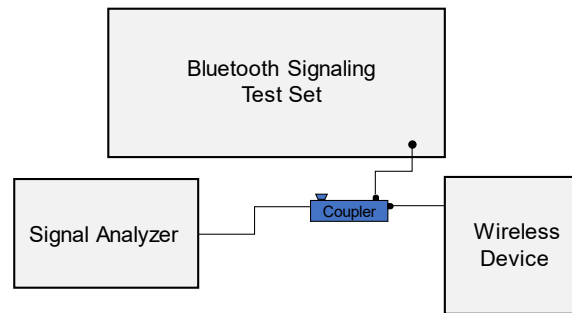


Figure 8-6
Power Measurement Setup

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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
12/15/2024	2450 Head	20.9	2300	1.705	37.637	1.670	39.500	2.10%	-4.72%
			2310	1.712	37.623	1.679	39.480	1.97%	-4.70%
			2320	1.720	37.607	1.687	39.460	1.96%	-4.70%
			2400	1.779	37.487	1.756	39.289	1.31%	-4.59%
			2450	1.816	37.413	1.800	39.200	1.00%	-4.56%
			2480	1.841	37.367	1.833	39.162	0.44%	-4.58%
			2500	1.856	37.325	1.855	39.136	0.05%	-4.63%
			2510	1.865	37.308	1.866	39.123	-0.05%	-4.64%
			2535	1.885	37.268	1.893	39.092	-0.42%	-4.67%
			2550	1.897	37.244	1.909	39.073	-0.63%	-4.68%
			2560	1.904	37.230	1.920	39.060	-0.83%	-4.69%
			2600	1.935	37.159	1.964	39.009	-1.48%	-4.74%
			2650	1.977	37.064	2.018	38.945	-2.03%	-4.83%
			2680	2.000	37.015	2.051	38.907	-2.49%	-4.86%
			2700	2.015	36.977	2.073	38.882	-2.85%	-4.90%
			2300	1.715	38.920	1.670	39.500	2.69%	-1.47%
			2310	1.722	38.905	1.679	39.480	2.56%	-1.46%
			2320	1.730	38.888	1.687	39.460	2.55%	-1.45%
			2400	1.788	38.786	1.756	39.289	1.82%	-1.28%
			2450	1.826	38.713	1.800	39.200	1.44%	-1.24%
12/18/2024	Head	22.5	2480	1.848	38.681	1.833	39.162	0.82%	-1.23%
			2500	1.863	38.652	1.855	39.136	0.43%	-1.24%
			2510	1.871	38.634	1.866	39.123	0.27%	-1.25%
			2535	1.892	38.594	1.893	39.092	-0.05%	-1.27%
			2550	1.905	38.576	1.909	39.073	-0.21%	-1.27%
			2560	1.914	38.563	1.920	39.060	-0.31%	-1.27%
			2600	1.944	38.501	1.964	39.009	-1.02%	-1.30%
			2650	1.987	38.410	2.018	38.945	-1.54%	-1.37%
			2680	2.012	38.363	2.051	38.907	-1.90%	-1.40%
			2700	2.027	38.331	2.073	38.882	-2.22%	-1.43%
			2300	1.681	37.674	1.670	39.500	0.66%	-4.62%
			2310	1.688	37.659	1.679	39.480	0.54%	-4.61%
			2320	1.695	37.640	1.687	39.460	0.47%	-4.61%
			2400	1.752	37.531	1.756	39.289	-0.23%	-4.47%
			2450	1.790	37.451	1.800	39.200	-0.56%	-4.46%
			2480	1.810	37.410	1.833	39.162	-1.25%	-4.47%
			2500	1.824	37.367	1.855	39.136	-1.67%	-4.54%
			2510	1.832	37.347	1.866	39.123	-1.82%	-4.54%
			2535	1.852	37.305	1.893	39.092	-2.17%	-4.57%
			2550	1.864	37.288	1.909	39.073	-2.36%	-4.57%
04/07/2025	2450 Head	21.9	2560	1.871	37.279	1.920	39.060	-2.55%	-4.56%
			2600	1.899	37.209	1.964	39.009	-3.31%	-4.61%
			2650	1.940	37.130	2.018	38.945	-3.87%	-4.66%
			2680	1.962	37.092	2.051	38.907	-4.34%	-4.72%
			2700	1.977	37.045	2.073	38.882	-4.63%	-4.72%
			5150	4.414	36.411	4.608	36.050	-4.21%	1.00%
			5160	4.423	36.407	4.618	36.040	-4.22%	1.02%
			5170	4.429	36.390	4.629	36.030	-4.32%	1.00%
			5180	4.437	36.374	4.635	36.009	-4.27%	1.01%
			5190	4.448	36.351	4.645	35.998	-4.24%	0.98%
			5200	4.462	36.319	4.658	35.986	-4.15%	0.92%
			5210	4.476	36.288	4.666	35.975	-4.07%	0.86%
			5220	4.486	36.248	4.676	35.963	-4.06%	0.79%
			5240	4.512	36.236	4.696	35.940	-3.92%	0.82%
			5250	4.526	36.224	4.706	35.929	-3.82%	0.82%
			5260	4.535	36.213	4.717	35.917	-3.86%	0.82%
			5270	4.543	36.205	4.727	35.906	-3.89%	0.83%
			5280	4.551	36.201	4.737	35.894	-3.93%	0.86%
			5290	4.557	36.195	4.748	35.883	-4.02%	0.85%
12/30/2024	5200-5800 Head	20.3	5300	4.564	36.147	4.758	35.871	-4.08%	0.77%
			5310	4.575	36.112	4.768	35.860	-4.05%	0.70%
			5320	4.591	36.086	4.778	35.849	-3.91%	0.67%
			5500	4.790	35.804	4.963	35.643	-3.49%	0.45%
			5510	4.803	35.767	4.973	35.632	-3.42%	0.38%
			5520	4.816	35.744	4.983	35.620	-3.31%	0.35%
			5530	4.835	35.725	4.994	35.609	-3.18%	0.33%
			5540	4.851	35.709	5.004	35.597	-3.06%	0.31%
			5550	4.864	35.699	5.014	35.586	-2.99%	0.32%
			5560	4.875	35.690	5.024	35.574	-2.97%	0.33%
			5580	4.894	35.664	5.045	35.551	-2.99%	0.32%
			5600	4.912	35.619	5.065	35.529	-3.02%	0.25%
			5610	4.926	35.607	5.076	35.518	-2.96%	0.25%
			5620	4.940	35.594	5.086	35.506	-2.87%	0.22%
			5640	4.961	35.534	5.106	35.483	-2.84%	0.14%
			5660	4.991	35.519	5.127	35.460	-2.65%	0.17%
			5670	5.003	35.502	5.137	35.449	-2.61%	0.15%
			5680	5.012	35.487	5.147	35.437	-2.62%	0.14%
			5690	5.019	35.472	5.158	35.426	-2.69%	0.13%
			5700	5.030	35.454	5.168	35.414	-2.67%	0.11%
			5710	5.041	35.416	5.178	35.403	-2.65%	0.04%
			5720	5.054	35.392	5.188	35.391	-2.58%	0.00%
			5745	5.085	35.357	5.214	35.363	-2.47%	-0.02%
			5750	5.090	35.350	5.219	35.357	-2.47%	-0.02%
			5755	5.096	35.342	5.224	35.351	-2.45%	-0.03%
			5765	5.108	35.328	5.234	35.340	-2.41%	-0.03%
			5775	5.119	35.323	5.245	35.329	-2.40%	-0.02%
			5785	5.129	35.309	5.256	35.317	-2.40%	-0.02%
			5795	5.141	35.288	5.265	35.305	-2.38%	-0.05%
			5805	5.151	35.266	5.275	35.294	-2.35%	-0.08%
			5825	5.178	35.223	5.296	35.271	-2.23%	-0.14%
			5835	5.191	35.204	5.305	35.230	-2.15%	-0.07%
			5845	5.205	35.182	5.315	35.210	-2.07%	-0.08%
			5850	5.209	35.176	5.320	35.200	-2.09%	-0.07%
			5855	5.213	35.170	5.325	35.197	-2.10%	-0.08%
			5875	5.239	35.159	5.347	35.183	-2.04%	-0.07%
			5885	5.248	35.134	5.357	35.177	-2.03%	-0.12%
			5905	5.266	35.099	5.379	35.163	-2.10%	-0.18%

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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
03/12/2025	5200-5800 Head	19.5	5150	4.382	36.226	4.608	36.050	-4.90%	0.49%
			5160	4.391	36.206	4.618	36.040	-4.92%	0.46%
			5170	4.405	36.170	4.629	36.030	-4.84%	0.39%
			5180	4.418	36.133	4.635	36.009	-4.68%	0.34%
			5190	4.425	36.099	4.645	35.998	-4.62%	0.28%
			5200	4.439	36.063	4.655	35.986	-4.64%	0.27%
			5210	4.451	36.066	4.666	35.975	-4.61%	0.25%
			5220	4.462	36.059	4.676	35.963	-4.58%	0.26%
			5240	4.484	36.030	4.698	35.940	-4.51%	0.25%
			5250	4.493	36.010	4.706	35.929	-4.53%	0.23%
			5260	4.502	35.986	4.717	35.917	-4.56%	0.19%
			5270	4.511	35.963	4.727	35.906	-4.67%	0.16%
			5280	4.525	35.952	4.737	35.894	-4.48%	0.16%
			5290	4.541	35.922	4.748	35.883	-4.36%	0.11%
			5300	4.557	35.897	4.758	35.871	-4.22%	0.07%
			5310	4.570	35.880	4.768	35.860	-4.15%	0.06%
			5320	4.580	35.874	4.778	35.849	-4.14%	0.07%
			5330	4.595	35.862	4.783	35.843	-3.49%	-0.17%
			5340	4.605	35.874	4.793	35.832	-3.38%	-0.16%
			5350	4.618	35.872	4.793	35.820	-3.31%	-0.13%
			5360	4.625	35.868	4.794	35.609	-3.38%	-0.12%
			5370	4.628	35.853	5.004	35.597	-3.52%	-0.12%
			5380	4.633	35.837	5.014	35.588	-3.61%	-0.17%
			5390	4.642	35.699	5.024	35.574	-3.62%	-0.21%
			5400	4.668	35.434	5.045	35.551	-3.51%	-0.33%
			5410	4.901	35.394	5.065	35.529	-3.24%	-0.38%
			5420	4.913	35.401	5.076	35.518	-3.21%	-0.33%
			5430	4.922	35.400	5.086	35.506	-3.22%	-0.30%
			5440	4.939	35.353	5.108	35.483	-3.27%	-0.37%
			5450	4.955	35.300	5.127	35.460	-3.35%	-0.45%
			5460	4.968	35.274	5.137	35.449	-3.29%	-0.49%
			5470	4.984	35.247	5.147	35.437	-3.17%	-0.54%
			5480	5.000	35.229	5.158	35.426	-3.06%	-0.58%
			5490	5.014	35.219	5.168	35.414	-2.98%	-0.55%
			5500	5.029	35.214	5.178	35.403	-2.88%	-0.53%
			5510	5.038	35.203	5.188	35.391	-2.89%	-0.53%
			5520	5.050	35.147	5.214	35.363	-2.95%	-0.61%
			5530	5.065	35.138	5.219	35.357	-2.93%	-0.62%
			5540	5.072	35.124	5.224	35.351	-2.91%	-0.64%
			5550	5.085	35.100	5.234	35.340	-2.85%	-0.68%
			5560	5.097	35.071	5.245	35.329	-2.82%	-0.73%
			5570	5.110	35.053	5.255	35.317	-2.76%	-0.75%
			5580	5.123	35.046	5.265	35.305	-2.70%	-0.73%
			5590	5.130	35.041	5.270	35.300	-2.66%	-0.73%
			5600	5.130	35.041	5.270	35.300	-2.66%	-0.73%
			5610	5.135	35.036	5.275	35.294	-2.65%	-0.73%
			5620	5.150	35.010	5.286	35.271	-2.61%	-0.74%
			5630	5.169	34.993	5.305	35.230	-2.56%	-0.87%
			5640	5.178	34.971	5.315	35.210	-2.58%	-0.88%
			5650	5.183	34.958	5.320	35.200	-2.58%	-0.89%
			5660	5.189	34.947	5.325	35.187	-2.55%	-0.71%
			5670	5.199	34.927	5.335	35.180	-2.57%	-0.75%
			5680	5.199	34.927	5.335	35.180	-2.57%	-0.75%
			5690	5.199	34.927	5.335	35.180	-2.57%	-0.75%
			5700	5.212	34.908	5.347	35.163	-2.52%	-0.75%
			5710	5.226	34.890	5.357	35.177	-2.49%	-0.82%
			5720	5.256	34.877	5.379	35.163	-2.29%	-0.81%
			5730	5.202	34.879	5.411	35.143	-3.86%	-0.75%
			5740	5.242	34.858	5.448	35.120	-3.78%	-0.81%
			5750	5.251	34.788	5.454	35.110	-3.95%	-0.86%
			6000	5.296	34.865	5.480	35.100	-3.36%	-0.87%
			6025	5.323	34.868	5.510	35.070	-3.39%	-0.52%
			6065	5.390	34.735	5.557	35.022	-3.01%	-0.82%
			6075	5.408	34.702	5.568	35.010	-2.89%	-0.88%
			6085	5.433	34.691	5.580	34.998	-2.63%	-0.88%
			6185	5.550	34.503	5.698	34.878	-2.60%	-1.08%
			6275	5.646	34.318	5.805	34.770	-2.74%	-1.30%
			6285	5.662	34.337	5.816	34.758	-2.65%	-1.21%
			6305	5.689	34.365	5.840	34.734	-2.59%	-1.05%
			6345	5.717	34.194	5.887	34.686	-2.89%	-1.42%
			6475	5.887	33.995	6.041	34.530	-2.55%	-1.55%
			6485	5.894	33.987	6.052	34.518	-2.61%	-1.54%
			6500	5.906	34.016	6.070	34.500	-2.70%	-1.40%
			6505	5.912	34.022	6.076	34.494	-2.70%	-1.37%
			6545	5.956	33.846	6.122	34.446	-2.71%	-1.74%
			6665	6.126	33.652	6.265	34.302	-2.22%	-1.89%
			6675	6.126	33.680	6.273	34.290	-2.34%	-1.78%
			6685	6.129	33.730	6.285	34.278	-2.49%	-1.65%
			6715	6.163	33.624	6.319	34.242	-2.47%	-1.80%
			6785	6.251	33.560	6.400	34.158	-2.33%	-1.75%
			6825	6.253	33.390	6.447	34.110	-3.01%	-2.11%
			6985	6.469	33.151	6.633	33.918	-2.47%	-2.26%
			6995	6.475	33.118	6.644	33.905	-2.54%	-2.32%
			7000	6.469	33.096	6.650	33.900	-2.72%	-2.37%
			7005	6.461	33.070	6.656	33.894	-2.93%	-2.43%
			7025	6.468	33.041	6.680	33.870	-3.17%	-2.45%
			8000	5.478	34.599	5.480	35.100	-0.02%	-1.43%
			8025	5.464	34.599	5.510	35.070	-0.63%	-1.60%
			8065	5.535	34.428	5.557	35.022	-0.40%	-1.70%
			8075	5.542	34.415	5.569	35.010	-0.48%	-1.70%
			8085	5.547	34.390	5.580	34.998	-0.59%	-1.74%
			8185	5.684	34.201	5.698	34.878	-0.25%	-1.94%
			8275	5.801	34.059	5.805	34.770	-0.07%	-2.04%
			8285	5.807	34.041	5.816	34.758	-0.15%	-2.06%
			8305	5.826	33.985	5.840	34.734	-0.24%	-2.16%
			8345	5.898	33.862	5.887	34.686	0.19%	-2.36%
			8475	6.035	33.757	6.041	34.530	-0.10%	-2.24%
			8485	6.030	33.762	6.052	34.518	-0.36%	-2.19%
			8500	6.033	33.717	6.070	34.500	-0.61%	-2.27%
			8505	6.035	33.690	6.076	34.494	-0.67%	-2.33%
			8545	6.116	33.662	6.122	34.446	-0.07%	-2.77%
			8665	6.295	33.285	6.265	34.302	0.02%	-2.96%
			8675	6.273	33.288	6.273	34.290	0.00%	-2.92%
			8685	6.274	33.286	6.285	34.278	-0.18%	-2.89%
			8715	6.282	33.170	6.319	34.242	-0.59%	-3.13%
			8785	6.393	33.132	6.400	34.158	-0.11%	-3.05%
			8825	6.402	33.014	6.447	34.110	-0.70%	-3.21%
			8985	6.630	32.744	6.633	33.918	-0.05%	-3.46%
			8995	6.625	32.739	6.644	33.906	-0.29%	-3.44%
			7000	6.622	32.730	6.650	33.900	-0.42%	-3.45%
			7005	6.619	32.721	6.656	33.894	-0.56%	-3.45%
			7025	6.624	32.654	6.680	33.870	-0.84%	-3.69%

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.

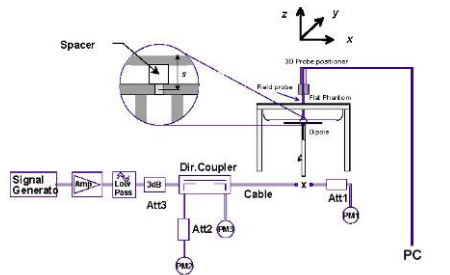
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9.2 Test System Verification

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 9-3
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)
J	2450	HEAD	12/15/2024	21.6	20.9	0.10	797	7406	1677	5.05	52.00	50.50	-2.88%	2.36	24.40	23.60	-3.28%	N/A	N/A
J	2450	HEAD	12/18/2024	23.1	22.5	0.10	797	7406	1677	5.14	52.00	51.40	-1.15%	2.39	24.40	23.90	-2.05%	N/A	N/A
O	2450	HEAD	04/07/2025	22.0	22.0	0.10	797	3914	728	4.84	52.00	48.40	-6.92%	2.27	24.40	22.70	-6.97%	N/A	N/A
S	5250	HEAD	12/30/2024	21.4	20.0	0.05	1191	7803	1583	3.82	78.90	76.40	-3.17%	1.11	22.70	22.20	-2.20%	N/A	N/A
S	5250	HEAD	03/31/2025	24.2	19.5	0.05	1191	7803	1583	3.62	78.90	72.40	-8.24%	1.06	22.70	21.20	-6.61%	N/A	N/A
S	5600	HEAD	12/30/2024	21.4	20.0	0.05	1191	7803	1583	3.85	83.00	77.00	-7.23%	1.11	23.90	22.20	-7.11%	N/A	N/A
S	5600	HEAD	03/31/2025	24.2	19.5	0.05	1191	7803	1583	3.81	83.00	76.20	-8.19%	1.10	23.90	22.00	-7.95%	N/A	N/A
S	5750	HEAD	12/30/2024	21.4	20.0	0.05	1191	7803	1583	3.56	78.90	71.20	-9.76%	1.03	22.40	20.60	-8.04%	N/A	N/A
S	5750	HEAD	03/31/2025	24.2	19.5	0.05	1191	7803	1583	3.60	78.90	72.00	-8.75%	1.04	22.40	20.80	-7.14%	N/A	N/A
S	5850	HEAD	12/30/2024	21.4	20.0	0.05	1191	7803	1583	3.77	78.80	75.40	-4.31%	1.08	22.50	21.60	-4.00%	N/A	N/A
S	5850	HEAD	03/31/2025	24.2	19.5	0.05	1191	7803	1583	3.71	78.80	74.20	-5.84%	1.06	22.50	21.20	-5.78%	N/A	N/A
R	6500	HEAD	12/26/2024	19.5	19.5	0.03	1111	7527	1272	7.44	291.00	297.60	2.27%	1.38	53.50	55.20	3.18%	33.30	1300.00
R	6500	HEAD	04/06/2025	21.6	20.8	0.03	1018	7570	1638	7.57	292.00	302.80	3.70%	1.38	53.90	55.20	2.41%	33.50	1310.00



**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.

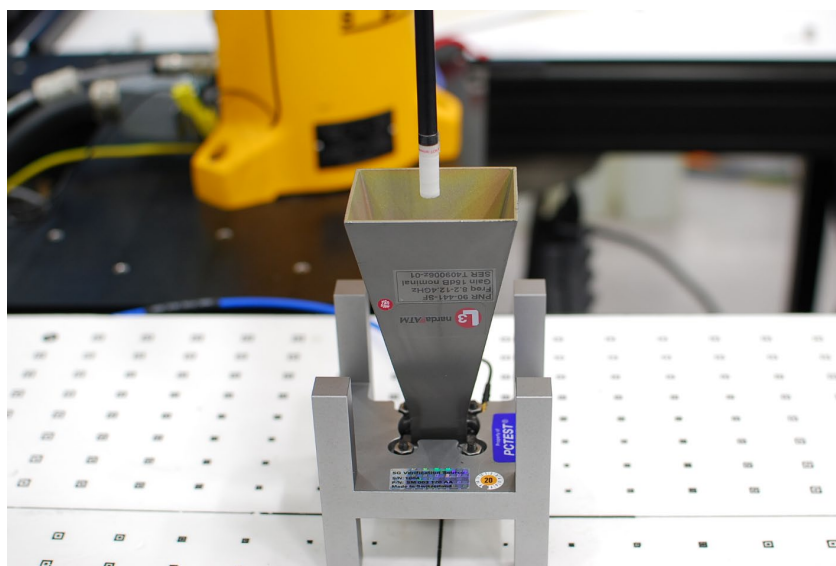


Figure 9-3
System Verification Setup Photo

Table 9-4
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	12/16/2024	1002	9622	93.3	61.80	54.60	0.53	62.30	54.90	0.55
Q	10	04/07/2025	1002	9389	93.3	56.80	54.60	0.24	57.20	54.90	0.25

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 Antenna R

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	R	QVC24	97.91	-0.02	2437.00	6	1.0	18.25	17.56	Bottom	0	Plastic	0.410	1.172	1.021	0.491		21.3	21.3
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									
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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	R	BDX24	97.91	0.00	2437.00	6	1.0	18.25	17.52	Bottom	0	Metal	0.386	1.183	1.021	0.466		21.5	21.5
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-2
2.4 GHz WLAN Antenna L

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	L	QVC24	97.50	-0.12	2462.00	11	1.0	19.0	18.41	Bottom	0	Plastic	0.413	1.146	1.026	0.486		22.1	22.1
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									
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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	L	BDX24	97.50	-0.12	2462.00	11	1.0	19.0	18.44	Bottom	0	Metal	0.385	1.138	1.026	0.450		22.4	22.4
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-3
2.4 GHz WLAN MIMO– 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]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	QVC24	97.27	-0.02	2412.00	1	1.0	18.25	17.71	19.0	18.26	Bottom	0	Plastic	0.983	1.186	1.028	1.198	Plot	17.6	17.6
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	QVC24	97.27	-0.02	2412.00	1	1.0	18.25	17.71	19.0	18.26	Bottom	0	Plastic	0.983	1.186	1.028	1.198		17.6	
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	QVC24	97.27	0.02	2437.00	6	1.0	18.25	17.87	19.0	17.60	Bottom	0	Plastic	0.669	1.380	1.028	0.949		19.2	
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	QVC24	97.27	-0.01	2462.00	11	1.0	18.25	17.28	19.0	18.21	Bottom	0	Plastic	0.473	1.250	1.028	0.608		20.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body									
Spatial Peak															1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population															averaged over 1 gram									
Note: Blue entry represents variability measurement																								
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	BDX24	97.27	-0.02	2412.00	1	1.0	18.25	17.98	19.0	17.95	Bottom	0	Metal	0.527	1.274	1.028	0.690		20.6	20.6
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	BDX24	97.27	-0.19	2437.00	6	1.0	18.25	17.86	19.0	17.96	Bottom	0	Metal	0.443	1.271	1.028	0.579		21.2	
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	BDX24	97.27	-0.01	2462.00	11	1.0	18.25	17.50	19.0	18.10	Bottom	0	Metal	0.424	1.230	1.028	0.536		21.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body									
Spatial Peak															1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population															averaged over 1 gram									

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10.2 5 GHz WLAN Standalone SAR

Table 10-4
5 GHz WLAN Antenna R- Plot A2

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	R	R8324	99.65	-0.05	5230.00	46	U-NII-1	13.5	16.50	15.68	Bottom	0	Plastic	0.659	1.208	1.004	0.799		17.4	16.4
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	R	R8384	99.30	-0.09	5690.00	138	U-NII-2C	29.3	16.00	15.03	Bottom	0	Plastic	0.587	1.250	1.007	0.739		17.3	16.4
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	R	R8384	99.30	-0.01	5775.00	155	U-NII-3	29.3	16.75	15.76	Bottom	0	Plastic	0.839	1.256	1.007	1.061	Plot	16.4	16.4
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	R	R8384	99.30	-0.01	5775.00	155	U-NII-3	29.3	16.75	15.76	Bottom	0	Plastic	0.662	1.246	1.007	0.879		17.5	16.4
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	R	R8324	99.30	0.00	5855.00	171	U-NII-4	29.3	17.00	15.80	Bottom	0	Plastic	0.662	1.318	1.007	0.879		17.5	16.4
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Blue entry represents variability measurement

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	R	CYP24	99.65	0.02	5230.00	46	U-NII-1	13.5	16.50	15.72	Bottom	0	Metal	0.466	1.197	1.004	0.560		19.0	18.9
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	R	CYP24	99.30	0.03	5690.00	138	U-NII-2C	29.3	16.00	15.46	Bottom	0	Metal	0.447	1.112	1.007	0.510		18.9	18.9
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	R	CYP24	99.30	-0.04	5775.00	155	U-NII-3	29.3	16.75	15.40	Bottom	0	Metal	0.499	1.186	1.007	0.596		18.9	18.9
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	R	CYP24	99.30	0.02	5855.00	171	U-NII-4	29.3	17.00	15.97	Bottom	0	Metal	0.449	1.268	1.007	0.573		19.4	18.9
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-5
5 GHz WLAN Antenna L Body

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	L	R8324	99.67	-0.08	5230.00	46	U-NII-1	13.5	16.00	15.47	Bottom	0	Plastic	0.702	1.130	1.003	0.796		16.9	16.9
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	L	R8324	99.30	-0.21	5690.00	138	U-NII-2C	29.3	15.50	14.53	Bottom	0	Plastic	0.409	1.250	1.007	0.515		18.3	18.3
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	L	R8324	99.34	0.00	5775.00	155	U-NII-3	29.3	16.00	14.82	Bottom	0	Plastic	0.482	1.312	1.007	0.637		17.3	17.3
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	L	R8324	99.34	0.02	5855.00	171	U-NII-4	29.3	16.50	15.30	Bottom	0	Plastic	0.613	1.318	1.007	0.814		17.3	17.3
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	L	CYP24	99.67	-0.08	5190.00	38	U-NII-1	13.5	13.50	12.49	Bottom	0	Metal	0.427	1.262	1.003	0.540		16.1	16.1
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	L	CYP24	99.67	0.03	5230.00	46	U-NII-1	13.5	16.00	15.55	Bottom	0	Metal	0.809	1.109	1.003	0.900		16.4	16.1
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	L	CYP24	99.34	-0.11	5690.00	138	U-NII-2C	29.3	15.50	14.70	Bottom	0	Metal	0.453	1.202	1.007	0.549		18.1	18.1
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	L	CYP24	99.34	0.04	5775.00	155	U-NII-3	29.3	16.00	15.18	Bottom	0	Metal	0.449	1.208	1.007	0.546		18.6	18.6
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	L	CYP24	99.34	0.03	5855.00	171	U-NII-4	29.3	16.50	15.56	Bottom	0	Metal	0.620	1.242	1.007	0.787		17.5	17.5
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-6
5 GHz WLAN MIMO

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]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	MIMO	QX334	99.60	-0.16	5190.00	38	U-NII-1	27.0	13.50	12.88	13.50	12.89	Bottom	0	Plastic	0.435	1.151	1.004	0.503		16.4	16.4
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	MIMO	QX334	99.60	0.12	5230.00	46	U-NII-1	27.0	16.50	15.41	16.00	15.26	Bottom	0	Plastic	0.756	1.285	1.004	0.975		16.4	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	QX334	99.34	0.01	5650.00	122	U-NII-2C	58.5	16.00	14.77	15.50	14.56	Bottom	0	Plastic	0.542	1.327	1.007	0.724		17.3	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	QX334	99.34	-0.01	5775.00	155	U-NII-3	58.5	16.75	16.36	16.00	15.55	Bottom	0	Plastic	0.735	1.202	1.007	0.890		16.8	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	QX334	99.34	0.09	5855.00	171	U-NII-4	58.5	17.00	16.26	16.50	15.14	Bottom	0	Plastic	0.633	1.186	1.007	0.756		18.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																									
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]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	MIMO	CYP24	99.60	-0.13	5190.00	38	U-NII-1	27.0	13.50	12.88	13.50	12.54	Bottom	0	Metal	0.399	1.247	1.004	0.448		16.9	16.7
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	MIMO	CYP24	99.60	0.03	5230.00	46	U-NII-1	27.0	16.50	15.29	16.00	15.22	Bottom	0	Metal	0.703	1.291	1.004	0.911		16.7	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	CYP24	99.34	-0.19	5650.00	122	U-NII-2C	58.5	16.00	14.66	15.50	14.79	Bottom	0	Metal	0.583	1.361	1.007	0.798		16.7	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	CYP24	99.34	0.03	5775.00	155	U-NII-3	58.5	16.75	16.25	16.00	15.65	Bottom	0	Metal	0.609	1.259	1.007	0.835		17.4	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	CYP24	99.34	-0.01	5855.00	171	U-NII-4	58.5	17.00	16.23	16.50	15.13	Bottom	0	Metal	0.667	1.199	1.007	0.793		17.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																									

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10.3 6 GHz Standalone SAR and APD

Table 10-7
6 GHz WLAN Antenna R

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	QV24	99.59	-0.07	6025.00	15	72.1	13.00	12.02	Bottom	0	Plastic	0.329	1.253	1.004	0.414		16.8	16.1
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	QV24	99.59	-0.06	6345.00	79	72.1	13.00	12.37	Bottom	0	Plastic	0.279	1.156	1.004	0.324		17.8	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	QV24	99.59	0.05	6665.00	143	72.1	12.75	12.10	Bottom	0	Plastic	0.133	1.161	1.004	0.388		16.8	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	R	QV24	97.97	0.09	6425.00	95	144.1	11.00	10.59	Bottom	0	Plastic	0.232	1.236	1.021	0.293		16.3	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	R	QV24	97.97	-0.12	6905.00	191	144.1	11.00	10.13	Bottom	0	Plastic	0.235	1.222	1.021	0.293		16.3	
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]	Keyboard Material Type	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	QV24	99.59	-0.07	6025.00	15	72.1	13.00	12.02	Bottom	0	Plastic	2.570	1.253	1.004	3.233		20.9	20.6
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	QV24	99.59	-0.06	6345.00	79	72.1	13.00	12.37	Bottom	0	Plastic	2.070	1.156	1.004	2.402		22.2	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	QV24	99.59	0.05	6665.00	143	72.1	12.75	12.10	Bottom	0	Plastic	2.450	1.161	1.004	2.856		21.2	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	R	QV24	97.97	0.09	6425.00	95	144.1	11.00	10.59	Bottom	0	Plastic	1.700	1.236	1.021	2.145		20.6	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	R	QV24	97.97	-0.12	6905.00	191	144.1	11.00	10.13	Bottom	0	Plastic	1.750	1.222	1.021	2.183		20.6	

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	BDX24	99.59	-0.12	6025.00	15	72.1	13.00	12.41	Bottom	0	Metal	0.151	1.146	1.004	0.174		20.6	17.1
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	BDX24	99.59	0.03	6345.00	79	72.1	13.00	12.68	Bottom	0	Metal	0.207	1.076	1.004	0.224		19.5	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	BDX24	99.59	0.02	6665.00	143	72.1	12.75	12.01	Bottom	0	Metal	0.237	1.186	1.004	0.282		18.2	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	R	BDX24	97.97	-0.12	6425.00	95	144.1	11.00	10.53	Bottom	0	Metal	0.158	1.117	1.021	0.180		18.4	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	R	BDX24	97.97	0.05	6905.00	191	144.1	11.00	10.22	Bottom	0	Metal	0.200	1.197	1.021	0.244		17.1	
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]	Keyboard Material Type	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	BDX24	99.59	-0.12	6025.00	15	72.1	13.00	12.41	Bottom	0	Metal	1.330	1.146	1.004	1.530		24.1	21.6
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	BDX24	99.59	0.03	6345.00	79	72.1	13.00	12.68	Bottom	0	Metal	1.780	1.076	1.004	1.928		23.1	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	R	BDX24	99.59	0.02	6665.00	143	72.1	12.75	12.01	Bottom	0	Metal	1.770	1.186	1.004	2.103		22.5	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	R	BDX24	97.97	-0.12	6425.00	95	144.1	11.00	10.52	Bottom	0	Metal	1.290	1.117	1.021	1.471		22.3	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	R	BDX24	97.97	0.05	6905.00	191	144.1	11.00	10.22	Bottom	0	Metal	1.410	1.197	1.021	1.723		21.6	

Table 10-8
6 GHz WLAN Antenna L – Plot A3

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	QV24	99.62	-0.18	6025.00	15	72.1	12.50	11.60	Bottom	0	Plastic	0.335	1.230	1.004	0.414		16.3	15.2
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	QV24	99.62	0.04	6345.00	79	72.1	12.50	11.88	Bottom	0	Plastic	0.324	1.153	1.004	0.375		16.7	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	QV24	99.62	-0.01	6665.00	143	72.1	12.75	12.10	Bottom	0	Plastic	0.455	1.161	1.004	0.506	Plot	15.5	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	L	QV24	97.97	0.06	6425.00	95	144.1	11.00	10.28	Bottom	0	Plastic	0.295	1.180	1.021	0.355		15.2	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	L	QV24	97.97	-0.12	6905.00	191	144.1	11.00	10.24	Bottom	0	Plastic	0.310	1.191	1.021	0.377		15.2	
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]	Keyboard Material Type	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	QV24	99.62	-0.18	6025.00	15	72.1	12.50	11.60	Bottom	0	Plastic	2.410	1.230	1.004	2.976		20.7	20.0
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	QV24	99.62	0.04	6345.00	79	72.1	12.50	11.88	Bottom	0	Plastic	2.310	1.153	1.004	2.674		21.2	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	QV24	99.62	-0.01	6665.00	143	72.1	12.75	12.10	Bottom	0	Plastic	3.040	1.161	1.004	3.544	Plot	20.2	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	L	QV24	97.97	0.06	6425.00	95	144.1	11.00	10.28	Bottom	0	Plastic	1.990	1.180	1.021	2.398		20.2	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	L	QV24	97.97	-0.12	6905.00	191	144.1	11.00	10.24	Bottom	0	Plastic	2.040	1.191	1.021	2.481		20.0	

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	BDX24	99.62	-0.18	6025.00	15	72.1	12.50	11.52	Bottom	0	Metal	0.298	1.253	1.004	0.375		18.8	18.8
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	BDX24	99.62	0.05	6345.00	79	72.1	12.50	11.74	Bottom	0	Metal	0.260	1.191	1.004	0.311		19.6	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	BDX24	99.62	-0.01	6665.00	143	72.1	12.75	11.96	Bottom	0	Metal	0.257	1.199	1.004	0.309		19.8	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	L	BDX24	99.62	0.01	6425.00	95	144.1	11.00	10.49	Bottom	0	Metal	0.228	1.125	1.004	0.258		18.9	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	L	BDX24	99.62	0.06	6905.00	191	144.1	11.00	9.88	Bottom	0	Metal	0.197	1.294	1.004	0.256		18.9	
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]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	BDX24	99.62	-0.18	6025.00	15	72.1	12.50	11.52	Bottom	0	Metal	2.520	1.253	1.004	3.170		20.4	20.4
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	BDX24	99.62	0.05	6345.00	79	72.1	12.50	11.74	Bottom	0	Metal	1.890	1.191	1.004	2.021		22.4	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	L	BDX24	99.62	-0.01	6665.00	143	72.1	12.75	11.96	Bottom	0	Metal	1.780	1.199	1.004	2.046		22.6	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	L	BDX24	99.62	0.01	6425.00	95	144.1	11.00	10.49	Bottom	0	Metal	1.550	1.125	1.004	1.706		21.6	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	L	BDX24	99.62	0.06	6905.00	191	144.1	11.00	9.88	Bottom	0	Metal	1.760	1.294	1.004	1.637		21.8	

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Table 10-9
6 GHz WLAN MIMO

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	QV24	98.87	-0.03	6025.00	15	144.1	13.00	12.00	12.50	12.03	Bottom	0	Plastic	0.453	1.259	1.011	0.577		15.3	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	QV24	98.87	-0.11	6345.00	79	144.1	13.00	12.36	12.50	12.34	Bottom	0	Plastic	0.435	1.153	1.011	0.507		15.8	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	QV24	98.87	-0.03	6665.00	143	144.1	12.75	12.37	12.75	12.51	Bottom	0	Plastic	0.441	1.091	1.011	0.486		15.8	
Body	6 GHz WiFi / IEEE 802.11ax	320	OFDM	MIMO	QV24	97.95	-0.09	6425.00	95	288.2	11.00	10.36	11.00	10.45	Bottom	0	Plastic	0.370	1.159	1.011	0.320		15.9	
Body	6 GHz WiFi / IEEE 802.11ax	320	OFDM	MIMO	QV24	97.95	0.10	6905.00	351	288.2	11.00	10.30	11.00	10.50	Bottom	0	Plastic	0.361	1.202	1.021	0.320		15.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									
Exposure	Band / Mode	Bandwidth [MHz]	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]	Keyboard Material Type	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	QV24	98.87	-0.03	6025.00	15	144.1	13.00	12.00	12.50	12.00	Bottom	0	Plastic	3.228	1.259	1.011	4.099		19.8	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	QV24	98.87	-0.11	6345.00	79	144.1	13.00	12.36	12.50	12.34	Bottom	0	Plastic	3.110	1.153	1.011	3.625		20.2	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	QV24	98.87	-0.03	6665.00	143	144.1	12.75	12.37	12.75	12.51	Bottom	0	Plastic	3.160	1.091	1.011	3.485		20.3	
Body	6 GHz WiFi / IEEE 802.11ax	320	OFDM	MIMO	QV24	97.95	-0.09	6425.00	95	288.2	11.00	10.36	11.00	10.45	Bottom	0	Plastic	2.000	1.159	1.021	2.367		20.2	
Body	6 GHz WiFi / IEEE 802.11ax	320	OFDM	MIMO	QV24	97.95	0.10	6905.00	351	288.2	11.00	10.30	11.00	10.50	Bottom	0	Plastic	1.900	1.202	1.021	2.332		20.3	

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	BDX24	98.87	0.12	6025.00	15	144.1	13.00	12.22	12.50	11.55	Bottom	0	Metal	0.371	1.245	1.011	0.467		17.8	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	BDX24	98.87	-0.12	6345.00	79	144.1	13.00	12.46	12.50	12.30	Bottom	0	Metal	0.334	1.113	1.011	0.382		18.9	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	BDX24	98.87	-0.15	6665.00	143	144.1	12.75	12.42	12.75	12.22	Bottom	0	Metal	0.362	1.130	1.011	0.414		18.6	
Body	6 GHz WiFi / IEEE 802.11ax	320	OFDM	MIMO	BDX24	97.95	-0.19	6425.00	95	288.2	11.00	10.36	11.00	10.43	Bottom	0	Metal	0.262	1.161	1.021	0.311		18.1	
Body	6 GHz WiFi / IEEE 802.11ax	320	OFDM	MIMO	BDX24	97.95	0.06	6905.00	351	288.2	11.00	10.19	11.00	9.83	Bottom	0	Metal	0.230	1.309	1.021	0.307		18.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									
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]	Keyboard Material Type	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	BDX24	98.87	0.12	6025.00	15	144.1	13.00	12.22	12.50	11.55	Bottom	0	Metal	1.900	1.245	1.011	4.154		19.3	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	BDX24	98.87	-0.12	6345.00	79	144.1	13.00	12.46	12.50	12.20	Bottom	0	Metal	2.340	1.132	1.011	2.678		21.4	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	BDX24	98.87	-0.15	6665.00	143	144.1	12.75	12.42	12.75	12.22	Bottom	0	Metal	2.560	1.130	1.011	2.905		21.5	
Body	6 GHz WiFi / IEEE 802.11ax	320	OFDM	MIMO	BDX24	97.95	-0.19	6425.00	95	288.2	11.00	10.36	11.00	10.43	Bottom	0	Metal	1.790	1.161	1.021	2.122		20.7	
Body	6 GHz WiFi / IEEE 802.11ax	320	OFDM	MIMO	BDX24	97.95	0.06	6905.00	351	288.2	11.00	10.19	11.00	9.83	Bottom	0	Metal	1.650	1.309	1.021	2.205		20.5	

10.4 Bluetooth SISO Standalone SAR

Table 10-10
Bluetooth WLAN Inactive Antenna R – Plot A4

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	R	QV24	76.80	-0.01	2441.00	39	1	20.5	19.01	Bottom	0	Plastic	0.455	1.409	1.016	0.651	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram				
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	R	BDX24	76.80	0.09	2441.00	39	1	20.5	19.00	Bottom	0	Metal	0.433	1.413	1.016	0.622	
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 10-11
Bluetooth WLAN Inactive Antenna L

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	L	QV24	76.80	0.02	2441.00	39	1	20.5	19.73	Bottom	0	Plastic	0.394	1.194	1.016	0.478	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram				
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	L	BDX24	76.80	0.05	2441.00	39	1	20.5	19.38	Bottom	0	Metal	0.362	1.294	1.016	0.476	
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 10-12
Bluetooth WLAN Active Antenna R

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	R	QVC24	76.80	0.08	2441.00	39	1	14.0	13.94	Bottom	0	Plastic	0.159	1.014	1.016	0.164	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	R	BDX24	76.80	-0.03	2441.00	39	1	14.0	13.62	Bottom	0	Metal	0.113	1.091	1.016	0.125	
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
Bluetooth WLAN Active Antenna L

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]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	L	QVC24	76.80	0.04	2441.00	39	1	14.75	14.42	Bottom	0	Plastic	0.116	1.079	1.016	0.127	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Keyboard Material Type	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	L	BDX24	76.80	-0.08	2441.00	39	1	14.75	14.46	Bottom	0	Metal	0.125	1.069	1.016	0.136	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.5 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 447498 D04v01, and FCC KDB Publication 616217 D04v01r02.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
- This device uses Qualcomm FastConnect TAS for WLAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
- The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
- The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
- Two keyboard materials have been evaluated for this device: one with a plastic cover and the other with a metal cover.

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WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax/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 Multi-Tx and Antenna SAR Considerations 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 Antenna R and 78% transmission duty factor for Bluetooth Antenna L to determine compliance. 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

MEASUREMENT RESULTS																										
Frequenc y (MHz)	Channel	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant H) [dBm]	Conducted Power (Ant H) [dBm]	Maximum Allowed Power (Ant E) [dBm]	Conducted Power (Ant E) [dBm]	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	Keyboard Material Type	IPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6025.00	15	802.11ax	OFDM	160	13.00	12.00	12.50	12.03	0.11	2	MIMO	R7J24	144.1	Bottom	98.87	0.125	Plastic	5.750	1.554	1.259	1.011	1.730	3.422	2.300	4.549	
6025.00	15	802.11ax	OFDM	160	13.00	12.00	12.50	12.03	0.11	9.95	MIMO	R7J24	144.1	Bottom	98.87	0.125	Plastic	6.020	1.554	1.259	1.011	1.670	3.303	1.700	3.363	
6345.00	79	802.11ax	OFDM	160	13.00	12.38	12.50	12.24	0.16	2	MIMO	R7J24	144.1	Bottom	98.87	0.125	Plastic	-	1.554	1.191	1.011	2.300	4.304	2.970	5.557	
6425.00	95	802.11be	OFDM	320	11.00	10.36	11.00	10.45	-0.02	2	MIMO	R7J24	288.2	Bottom	97.95	0.125	Plastic	-	1.554	1.159	1.021	1.980	3.641	2.390	4.395	
6665.00	143	802.11ax	OFDM	160	12.75	12.37	12.75	12.51	0.20	2	MIMO	R7J24	144.1	Bottom	98.87	0.125	Plastic	-	1.554	1.091	1.011	2.610	4.474	3.460	5.931	Plot
6905.00	191	802.11be	OFDM	320	11.00	10.20	11.00	10.56	0.02	2	MIMO	R7J24	288.2	Bottom	97.95	0.125	Plastic	-	1.554	1.202	1.021	1.370	2.613	1.690	3.223	
6025.00	15	802.11ax	OFDM	160	13.00	12.02	-	-	0.21	2	R	R7J24	72.1	Bottom	99.59	0.125	Plastic	-	1.554	1.253	1.004	1.390	2.717	1.460	2.854	
6345.00	79	802.11ax	OFDM	160	13.00	12.37	-	-	0.09	2	R	R7J24	72.1	Bottom	99.59	0.125	Plastic	-	1.554	1.156	1.004	1.510	2.723	1.570	2.832	
6425.00	95	802.11be	OFDM	320	11.00	10.08	-	-	0.09	2	R	R7J24	144.11	Bottom	97.97	0.125	Plastic	-	1.554	1.236	1.021	0.789	1.547	0.819	1.606	
6665.00	143	802.11ax	OFDM	160	12.50	12.10	-	-	0.05	2	R	R7J24	72.1	Bottom	99.59	0.125	Plastic	-	1.554	1.096	1.004	1.040	1.778	1.430	2.445	
6905.00	191	802.11be	OFDM	320	11.00	10.13	-	-	0.02	2	R	R7J24	144.11	Bottom	97.97	0.125	Plastic	-	1.554	1.222	1.021	0.847	1.642	1.380	2.676	
6025.00	15	802.11ax	OFDM	160	-	-	12.50	11.60	0.13	2	L	R7J24	72.1	Bottom	99.62	0.125	Plastic	-	1.554	1.230	1.004	0.418	0.802	0.552	1.059	
6345.00	79	802.11ax	OFDM	160	-	-	12.50	11.88	0.17	2	L	R7J24	72.1	Bottom	99.62	0.125	Plastic	-	1.554	1.153	1.004	0.356	0.640	0.648	1.166	
6425.00	95	802.11be	OFDM	320	-	-	11.00	10.28	-0.11	2	L	R7J24	144.11	Bottom	97.97	0.125	Plastic	-	1.554	1.180	1.021	0.387	0.725	0.647	1.211	
6665.00	143	802.11ax	OFDM	160	-	-	12.75	12.10	0.10	2	L	R7J24	72.1	Bottom	99.62	0.125	Plastic	-	1.554	1.161	1.004	1.070	1.938	1.520	2.753	
6905.00	191	802.11be	OFDM	320	-	-	11.00	10.24	-0.02	2	L	R7J24	144.11	Bottom	97.97	0.125	Plastic	-	1.554	1.191	1.021	0.657	1.242	1.220	2.305	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population												Power Density 10 W/m² averaged over 4 cm²														

MEASUREMENT RESULTS																									
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	Keyboard Material Type	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6025.00	15	802.11ax	OFDM	160	13.00	12.22	12.50	11.55	0.16	2	MIMO	CVP24	144.1	Bottom	98.87	0.125	Metal	1.554	1.197	1.011	2.540	4.777	2.880	5.416	
6665.00	143	802.11ax	OFDM	160	12.75	12.01	-	-	0.20	2	R	BDX24	72.1	Bottom	99.59	0.125	Metal	1.554	1.186	1.004	1.320	2.443	1.530	2.831	
6025.00	15	802.11ax	OFDM	160	-	-	12.50	11.52	0.12	2	L	BDX24	72.1	Bottom	99.62	0.125	Metal	1.554	1.253	1.004	1.090	2.131	1.200	2.346	
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:

- 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.
- 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.
- Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
- 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.
- 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.
- 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)

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was calculated based on these measurements. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.

7. PTP-PR algorithm was used during psPD measurement and calculations.
8. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

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

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

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
2450	2412.00	1	2.4 GHz W/FV/ IEEE 802.11b	DSS	Bottom	0 mm	MIMO	0.983	0.983	1.00	N/A	N/A	N/A	N/A
5750	5750.00	155	5 GHz W/FV/IEEE 802.11ac	OFDM	Bottom	0 mm	R	0.839	0.809	1.04	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram							

12.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for 1g 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	3/25/2024	Annual	3/25/2025	MY47270002
Agilent	N5182A	MXG Vector Signal Generator	7/9/2024	Annual	7/9/2025	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	3/7/2024	Annual	3/7/2025	MY47420603
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	US39170118
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	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	6/24/2024	Annual	6/24/2025	1840005
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Anritsu	MA24106A	USB Power Sensor	7/10/2024	Annual	7/10/2025	1827530
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
Mini-Circuits	PWR-4GHS	USB Power Sensor	6/12/2024	Annual	6/12/2025	12001070013
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	4/15/2024	Biennial	4/15/2026	240310282
Control Company	S66279	Therm./ Clock/ Humidity Monitor	2/16/2024	Biennial	2/16/2026	240140051
Mitutoyo	500-196-30	CD-6"ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N9020A	MXA Signal Analyzer	7/8/2024	Annual	7/8/2025	MY48010233
Agilent	N9020A	MXA Signal Analyzer	6/14/2024	Annual	6/14/2025	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/10/2024	Annual	7/10/2025	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	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	D2450V2	2450 MHz Sar Dipole	11/15/2022	Biennial	3/21/2025	797
SPEAG	D5GHZV2	5 GHz SAR Dipole	1/17/2024	Annual	1/17/2025	1191
SPEAG	D6.5GHZV2	6 GHz SAR Dipole	12/6/2024	Annual	12/6/2025	1018
SPEAG	D6.5GHZV2	6 GHz SAR Dipole	2/22/2024	Annual	2/22/2025	1111
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	3/5/2024	Annual	3/5/2025	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/8/2024	Annual	7/8/2025	1677
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/12/2024	Annual	3/12/2025	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/8/2024	Annual	7/8/2025	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2024	Annual	5/8/2025	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2024	Annual	9/10/2025	1449
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/7/2024	Annual	2/7/2025	1638
SPEAG	EX3DV4	SAR Probe	6/28/2024	Annual	6/28/2025	7803
SPEAG	EX3DV4	SAR Probe	7/5/2024	Annual	7/5/2025	7406
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7570
SPEAG	EX3DV4	SAR Probe	5/10/2024	Annual	5/10/2026	3914
SPEAG	EX3DV4	SAR Probe	3/8/2024	Annual	3/8/2025	7527
SPEAG	EUmmWV4	EUmmWV4 Probe	1/8/2025	Annual	1/8/2026	9389
SPEAG	EUmmWV4	EUmmWV4 Probe	2/2/2024	Annual	2/2/2025	9622

Note:

1. 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.
2. Each equipment item was used solely within its respective calibration period.

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14 MEASUREMENT UNCERTAINTIES

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	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							k=2	27.6	27.1
(95% CONFIDENCE LEVEL)									

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

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Applicable for Power Density Measurements:

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

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15 CONCLUSION

15.1 Measurement Conclusion

The SAR evaluation indicates that the DUT 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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16 REFERENCES

- [1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, Aug. 1996.
- [2] ANSI/IEEE C95.1-2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, 2006.
- [3] ANSI/IEEE C95.1-1992, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, Sept. 1992.
- [4] ANSI/IEEE C95.3-2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, New York: IEEE, December 2002.
- [5] IEEE Standards Coordinating Committee 39 –Standards Coordinating Committee 34 – IEEE Std. 1528-2013, IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.
- [6] NCRP, National Council on Radiation Protection and Measurements, Biological Effects and Exposure Criteria for RadioFrequency Electromagnetic Fields, NCRP Report No. 86, 1986. Reprinted Feb. 1995.
- [7] T. Schmid, O. Egger, N. Kuster, Automated E-field scanning system for dosimetric assessments, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.
- [8] K. Pokovic, T. Schmid, N. Kuster, Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies, ICECOM97, Oct. 1997, pp. 1 -124.
- [9] K. Pokovic, T. Schmid, and N. Kuster, E-field Probe with improved isotropy in brain simulating liquids, Proceedings of the ELMAR, Zadar, Croatia, June 23-25, 1996, pp. 172-175.
- [10] Schmid & Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.
- [11] V. Hombach, K. Meier, M. Burkhardt, E. Kuhn, N. Kuster, The Dependence of EM Energy Absorption upon Human Modeling at 900 MHz, IEEE Transaction on Microwave Theory and Techniques, vol. 44 no. 10, Oct. 1996, pp. 1865-1873.
- [12] N. Kuster and Q. Balzano, Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300MHz, IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.
- [13] G. Hartsgrrove, A. Kraszewski, A. Surowiec, Simulated Biological Materials for Electromagnetic Radiation Absorption Studies, University of Ottawa, Bioelectromagnetics, Canada: 1987, pp. 29-36.
- [14] Q. Balzano, O. Garay, T. Manning Jr., Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.
- [15] W. Gander, Computermathematic, Birkhaeuser, Basel, 1992.
- [16] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, Numerical Recipes in C, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.
- [17] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.
- [18] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10kHz-300GHz, Jan. 1995.

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- [19] Prof. Dr. Niels Kuster, ETH, Eidgenössische Technische Hochschule Zürich, Dosimetric Evaluation of the Cellular Phone.
- [20] IEC 62209-1, Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz), July 2016.
- [21] Innovation, Science, Economic Development Canada RSS-102 Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) Issue 5, March 2015.
- [22] Health Canada Safety Code 6 Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency Range from 3 kHz – 300 GHz, 2015
- [23] FCC SAR Test Procedures for 2G-3G Devices, Mobile Hotspot and UMPC Devices KDB Publications 941225, D01-D07
- [24] SAR Measurement Guidance for IEEE 802.11 Transmitters, KDB Publication 248227 D01
- [25] FCC SAR Considerations for Handsets with Multiple Transmitters and Antennas, KDB Publications 648474 D03-D04
- [26] FCC SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers, FCC KDB Publication 616217 D04
- [27] FCC SAR Measurement and Reporting Requirements for 100MHz – 6 GHz, KDB Publications 865664 D01-D02
- [28] FCC General RF Exposure Guidance and SAR Procedures for Dongles, KDB Publication 447498, D01-D02
- [29] Anexo à Resolução No. 533, de 10 de Setembro de 2009.
- [30] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), Mar. 2010.

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