



ELEMENT MATERIALS TECHNOLOGY

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RF EXPOSURE REPORT

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

Date of Testing:
06/02/2025 – 09/02/2025
Test Report Issue Date:
09/16/2025
Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2505120065-12.BCG

FCC ID: BCGA3416
APPLICANT: APPLE, INC.

DUT Type: Head Mounted Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A3416

Equipment Class	Band & Mode	Tx Frequency	SAR	
			1g Head (W/kg)	10g Extremity (W/kg)
DTS	2.4 GHz WIFI	2412 - 2472 MHz	<0.1	2.70
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	<0.1	2.95
DSS/DTS	2.4 GHz Bluetooth	2402 - 2480 MHz	<0.1	1.63
NII	NB U-NII 1	5157 - 5245 MHz	<0.1	<0.1
NII	NB U-NII 3	5731 - 5844 MHz	<0.1	<0.1
6VL	NB U-NII 5	6108- 6420 MHz	<0.1	<0.1
Simultaneous SAR per KDB 690783 D01v01r03:			0.10	3.73
Equipment Class	Band & Mode	Tx Frequency	APD (W/m²)	APD (W/m²)
6VL	NB U-NII 5	6108- 6420 MHz	1.04	2.01
Equipment Class	Band & Mode	Tx Frequency	Reported PD (W/m²)	
6VL	NB U-NII 5	6108- 6420 MHz	0.86	

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.7 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 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
2.4 GHz WIFI	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB U-NII 1	Data	5162 - 5245 MHz
NB U-NII 3	Data	5733 - 5844 MHz
NB U-NII 5	Data	6108- 6420 MHz

1.2 Power Reduction for SAR

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

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

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1.3 Nominal and Maximum Output Power Specifications

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

1.3.1 Maximum WLAN Time-Averaged Output Power

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1							
		SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO
		b (Maximum)	b (Nominal)	g (Maximum)	g (Nominal)	n (Maximum)	n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	20.00	19.00	18.25	17.25	18.25	17.25	17.50	16.50
	2	21.50	20.50	19.25	18.25	19.25	18.25	19.25	18.25
	3	21.50	20.50	20.50	19.50	20.50	19.50	20.00	19.00
	4	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50
	5	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50
	6	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50
	7	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50
	8	21.50	20.50	21.50	20.50	21.50	20.50	21.25	20.25
	9	21.50	20.50	20.25	19.25	20.25	19.25	20.00	19.00
	10	21.50	20.50	19.50	18.50	19.50	18.50	19.25	18.25
	11	21.50	20.50	18.25	17.25	18.25	17.25	17.75	16.75
	12	20.00	19.00	15.75	14.75	15.75	14.75	15.50	14.50
	13	18.25	17.25	12.00	11.00	12.00	11.00	NS	NS

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1			
		MIMO	MIMO	MIMO	MIMO
		g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	18.00	17.00	17.00	16.00
	2	19.00	18.00	18.50	17.50
	3	19.50	18.50	19.25	18.25
	4	21.50	20.50	21.50	20.50
	5	21.50	20.50	21.50	20.50
	6	21.50	20.50	21.50	20.50
	7	21.50	20.50	21.50	20.50
	8	21.50	20.50	21.25	20.25
	9	20.25	19.25	20.00	19.00
	10	17.50	16.50	19.25	18.25
	11	17.50	16.50	17.75	16.75
	12	15.75	14.75	15.50	14.50
	13	12.00	11.00	NS	NS

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2								
	Channel	SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO
		b (Maximum)	b (Nominal)	g (Maximum)	g (Nominal)	n (Maximum)	n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	20.00	18.25	18.25	17.25	18.25	17.25	17.50	16.50
	2	21.50	20.50	19.25	18.25	19.25	18.25	19.25	18.25
	3	21.50	20.50	20.50	19.50	20.50	19.50	20.00	19.00
	4	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50
	5	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50
	6	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50
	7	21.50	20.50	21.50	20.50	21.50	20.50	21.50	20.50
	8	21.50	20.50	21.50	20.50	21.50	20.50	21.25	20.25
	9	21.50	20.50	20.25	19.25	20.25	19.25	20.00	19.00
	10	21.50	20.50	19.50	18.50	19.50	18.50	19.25	18.25
	11	21.50	20.50	18.25	17.25	18.25	17.25	17.75	16.75
	12	20.00	19.00	15.75	14.75	15.75	14.75	15.50	14.50
	13	18.25	17.25	12.00	11.00	12.00	11.00	NS	NS

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2			
		MIMO	MIMO	MIMO	MIMO
		g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	18.00	17.00	17.00	16.00
	2	19.00	18.00	18.50	17.50
	3	19.50	18.50	19.25	18.25
	4	21.50	20.50	21.50	20.50
	5	21.50	20.50	21.50	20.50
	6	21.50	20.50	21.50	20.50
	7	21.50	20.50	21.50	20.50
	8	21.50	20.50	21.25	20.25
	9	20.25	19.25	20.00	19.00
	10	17.50	16.50	19.25	18.25
	11	17.50	16.50	17.75	16.75
	12	15.75	14.75	15.50	14.50
	13	12.00	11.00	NS	NS

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

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2															
	Channel	SISO	SISO	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD
		a (Maximum)	a (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Nominal)
5 GHz WIFI 20 MHz Bandwidth	36	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	17.25
	40	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	44	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	48	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	52	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	56	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	60	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	64	18.50	17.50	18.50	17.50	18.50	17.25	18.50	17.25	18.50	17.25	18.50	17.25	18.50	17.25	17.25
	68	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	72	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	76	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	80	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	84	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	88	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	92	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	96	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	100	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	104	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	108	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	112	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
5 GHz WIFI 40 MHz Bandwidth	116	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	120	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	124	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	128	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	132	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	136	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	140	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	144	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	148	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	152	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	156	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	160	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
5 GHz WIFI 80 MHz Bandwidth	164	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	168	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	172	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	176	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	180	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	184	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	188	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	192	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	196	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	200	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	204	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	208	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
5 GHz WIFI 160 MHz Bandwidth	212	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50
	216	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	18.50	17.50	17.50

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

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DUT Type: Head Mounted Device		Technical Manager
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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2													
		SISO		SISO		SISO		SISO		SISO		SISO		SISO	
		as SUI (Maximum)	as SUI (Nominal)	as SUI (Maximum)	as SUI (Nominal)	as SUI (Maximum)	as SUI (Nominal)	as SUI (Maximum)	as SUI (Nominal)	as SUI (Maximum)	as SUI (Nominal)	as SUI (Maximum)	as SUI (Nominal)	as SUI (Maximum)	as SUI (Nominal)
5 GHz WiFi 20 MHz Bandwidth	36	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75
	40	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75
	44	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75
	48	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75
	52	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75
	56	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75
	60	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75
	64	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75	17.75	16.75
	100	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	104	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	108	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	112	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	116	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	120	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	124	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	128	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	132	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	136	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	140	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
	144	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25	18.25	17.25
5 GHz WiFi 40 MHz Bandwidth	148	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
	152	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
	156	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
	160	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
	164	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
	168	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
	172	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
	176	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
	180	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
	184	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
5 GHz WiFi 80 MHz Bandwidth	188	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
	192	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
	196	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
	200	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
	204	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
	208	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
	212	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
	216	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
	220	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
	224	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
5 GHz WiFi 160 MHz Bandwidth	228	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
	232	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

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

1.3.2 Bluetooth Maximum and Reduced Output Power

Bluetooth Mode/Band		Modulated Average (ePA)		Modulated Average (iPA)		Modulated Average (ePA)		Modulated Average (iPA)	
		Single Tx Chain (dBm)		Single Tx Chain (dBm)		TXBF (dBm)		TXBF (dBm)	
		Antenna 1		Antenna 1		Antenna 1		Antenna 1	
BDR	Maximum	20.00		10.50		17.00		10.50	
	Nominal	19.00		9.50		16.00		9.50	
EDR	Maximum	13.50		6.50		13.50		6.50	
	Nominal	12.50		5.50		12.50		5.50	
LE Adv	Maximum	7.00		7.00		7.00		7.00	
	Nominal	6.00		6.00		6.00		6.00	
HDR4	Maximum	10.50		4.50		10.50		4.50	
	Nominal	9.50		3.50		9.50		3.50	
HDR8	Maximum	10.50		4.50		10.50		4.50	
	Nominal	9.50		3.50		9.50		3.50	

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

Bluetooth Mode/Band		Modulated Average (ePA)		Modulated Average (iPA)		Modulated Average (ePA)		Modulated Average (iPA)	
		Single Tx Chain (dBm)		Single Tx Chain (dBm)		TXBF (dBm)		TXBF (dBm)	
		Antenna 2		Antenna 2		Antenna 2		Antenna 2	
BDR	Maximum	20.00		10.50		17.00		10.50	
	Nominal	19.00		9.50		16.00		9.50	
EDR	Maximum	13.50		6.50		13.50		6.50	
	Nominal	12.50		5.50		12.50		5.50	
LE Adv	Maximum	9.00		9.00		7.00		9.00	
	Nominal	8.00		8.00		6.00		8.00	
HDR4	Maximum	10.50		4.50		10.50		4.50	
	Nominal	9.50		3.50		9.50		3.50	
HDR8	Maximum	10.50		4.50		10.50		4.50	
	Nominal	9.50		3.50		9.50		3.50	

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

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Bluetooth Mode/Band		Modulated Average (iPA) Single Tx Chain (dBm) Antenna NBUNII_L	Modulated Average (iPA) TXBF (dBm) Antenna NBUNII_L
BDR	Maximum	10.50	10.50
	Nominal	9.50	9.50
EDR	Maximum	6.50	6.50
	Nominal	5.50	5.50
LE Adv	Maximum	7.00	7.00
	Nominal	6.00	6.00
HDR4	Maximum	4.50	4.50
	Nominal	3.50	3.50
HDR8	Maximum	4.50	4.50
	Nominal	3.50	3.50

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

Below table is applicable in the following conditions:
-Simultaneous conditions with 5 GHz WLAN active

Bluetooth Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1	Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1
BDR	Maximum	16.50	10.50	17.00	10.50
	Nominal	15.50	9.50	16.00	9.50
EDR	Maximum	13.50	6.50	13.50	6.50
	Nominal	12.50	5.50	12.50	5.50
LE Adv	Maximum	7.00	7.00	7.00	7.00
	Nominal	6.00	6.00	6.00	6.00
HDR4	Maximum	10.50	4.50	10.50	4.50
	Nominal	9.50	3.50	9.50	3.50
HDR8	Maximum	10.50	4.50	10.50	4.50
	Nominal	9.50	3.50	9.50	3.50

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

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Below table is applicable in the following conditions:

-Simultaneous conditions with 5 GHz WLAN active

Bluetooth Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2	Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2
BDR	Maximum	18.00	10.50	17.00	10.50
	Nominal	17.00	9.50	16.00	9.50
EDR	Maximum	13.50	6.50	13.50	6.50
	Nominal	12.50	5.50	12.50	5.50
LE Adv	Maximum	9.00	9.00	7.00	9.00
	Nominal	8.00	8.00	6.00	8.00
HDR4	Maximum	10.50	4.50	10.50	4.50
	Nominal	9.50	3.50	9.50	3.50
HDR8	Maximum	10.50	4.50	10.50	4.50
	Nominal	9.50	3.50	9.50	3.50

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

1.3.3 NB UNII Maximum Power

NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna NBUNII_R	Modulated Average (ePA) TXBF (dBm) Antenna NBUNII_R
BDR	Maximum	5.50	5.50
	Nominal	4.50	4.50
LE Adv	Maximum	5.50	5.50
	Nominal	4.50	4.50
HDR4	Maximum	2.50	2.50
	Nominal	1.50	1.50
HDR8	Maximum	2.50	2.50
	Nominal	1.50	1.50

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

NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna NBUNII_L	Modulated Average (ePA) TXBF (dBm) Antenna NBUNII_L
BDR	Maximum	5.50	5.50
	Nominal	4.50	4.50
LE Adv	Maximum	5.50	5.50
	Nominal	4.50	4.50
HDR4	Maximum	2.50	2.50
	Nominal	1.50	1.50
HDR8	Maximum	2.50	2.50
	Nominal	1.50	1.50

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

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NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna NBUNII_R	Modulated Average (ePA) TXBF (dBm) Antenna NBUNII_R
BDR	Maximum	5.50	5.50
	Nominal	4.50	4.50
LE Adv	Maximum	5.50	5.50
	Nominal	4.50	4.50
HDR4	Maximum	2.50	2.50
	Nominal	1.50	1.50
HDR8	Maximum	2.50	2.50
	Nominal	1.50	1.50

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

NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna NBUNII_L	Modulated Average (ePA) TXBF (dBm) Antenna NBUNII_L
BDR	Maximum	5.50	5.50
	Nominal	4.50	4.50
LE Adv	Maximum	5.50	5.50
	Nominal	4.50	4.50
HDR4	Maximum	2.50	2.50
	Nominal	1.50	1.50
HDR8	Maximum	2.50	2.50
	Nominal	1.50	1.50

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

NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna NBUNII_R	Modulated Average (ePA) TXBF (dBm) Antenna NBUNII_R
BDR	Maximum	-9.00	-9.00
	Nominal	-10.00	-10.00
LE Adv	Maximum	-9.00	-9.00
	Nominal	-10.00	-10.00
HDR4	Maximum	-6.50	-6.50
	Nominal	-7.50	-7.50
HDR8	Maximum	-4.00	-4.00
	Nominal	-5.00	-5.00
HDRp4	Maximum	-6.50	-6.50
	Nominal	-7.50	-7.50
HDRp8	Maximum	-4.00	-4.00
	Nominal	-5.00	-5.00

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

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NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna NBUNII_L	Modulated Average (ePA) TXBF (dBm) Antenna NBUNII_L
BDR	Maximum	-9.00	-9.00
	Nominal	-10.00	-10.00
LE Adv	Maximum	-9.00	-9.00
	Nominal	-10.00	-10.00
HDR4	Maximum	-6.50	-6.50
	Nominal	-7.50	-7.50
HDR8	Maximum	-4.00	-4.00
	Nominal	-5.00	-5.00
HDRp4	Maximum	-6.50	-6.50
	Nominal	-7.50	-7.50
HDRp8	Maximum	-4.00	-4.00
	Nominal	-5.00	-5.00

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

1.4 DUT Antenna Locations

Based on the expected use conditions and FCC approved test plan, Head SAR and Extremity SAR were evaluated. A diagram showing the location of the antennas can be found in the DUT Antenna Diagram & SAR Test Setup Photographs appendix. More information about the configuration evaluated for SAR can be found in Section 4.2 and Section 4.3.

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1.5 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 60 seconds.

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

**Table 1-1
Simultaneous Head Transmission Scenarios**

No.	Capable Transmit Configuration	Head
1	NB UNII + 2.4 GHz Bluetooth	Yes
2	NB UNII + 2.4 GHz WiFi	Yes
3	NB UNII + 5 GHz WiFi	Yes
4	NB UNII + 2.4 GHz Bluetooth + 5GHz WiFi	Yes
5	NB UNII + 2.4 GHz Bluetooth + 2.4GHz WiFi	Yes
7	2.4 GHz Bluetooth + 2.4 GHz WI-FI	Yes
9	2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
8	2.4 GHz Bluetooth(TXBF)	Yes
9	2.4 GHz Bluetooth(TXBF) + 5 GHz WI-FI	Yes

**Table 1-2
Simultaneous Extremity Transmission Scenarios**

No.	Capable Transmit Configuration	Extremity
1	NB UNII + 2.4 GHz Bluetooth	Yes
2	NB UNII + 2.4 GHz WiFi	Yes
3	NB UNII + 5 GHz WiFi	Yes
4	NB UNII + 2.4 GHz Bluetooth + 5GHz WiFi	Yes
5	NB UNII + 2.4 GHz Bluetooth + 2.4GHz WiFi	Yes
7	2.4 GHz Bluetooth + 2.4 GHz WI-FI	Yes
9	2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
8	2.4 GHz Bluetooth(TXBF)	Yes
9	2.4 GHz Bluetooth(TXBF) + 5 GHz WI-FI	Yes
11	2.4 GHz WLAN MIMO	Yes
12	5 GHz WLAN MIMO	Yes

- 2.4 GHz WLAN, and 2.4 GHz Bluetooth can transmit simultaneously on separate antennas. 2.4 GHz WLAN Antenna 1 can only transmit simultaneously with 2.4 GHz Bluetooth Antenna 2 **or** 2.4 GHz Bluetooth Antenna NB UNII_L.
- This device supports VoWiFi.
- NB UNII Antennas are on the same core and will always operate at the same time.
- Table 1-1 supports Head testing using the Head-on policy as stated in the Technical Document.
- Table 1-2 supports Extremity testing using both Head-on and Head-off policies as stated in the Technical Document.

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1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-2A was evaluated for Antenna 1 and Antenna 2. Additional testing for U-NII-1 for Antenna 1 and Antenna 2 SAR was less than 1.2 W/kg for head exposure test conditions and 4.0 W/kg for extremity exposure test conditions per FCC KDB Publication 248227 D01v02r02.

The WLAN/Bluetooth/NB UNII chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. The worst case variant was used for evaluating SAR compliance.

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

This device supports IEEE 802.11ac with the following features:

- a) Up to 80 MHz Bandwidth only for 5 GHz
- b) 2 Tx antenna output
- c) 256 QAM is supported
- d) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:

- a) Up to 80 MHz Bandwidth only for 5 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) 2 Tx antenna output
- d) Up to 1024 QAM is supported
- e) TDWR and Band gap channels are supported for 5 GHz
- f) MU-MIMO UL Operations are not supported

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

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

1.7 Guidance Applied

- 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)

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1.8 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 9.

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2 INTRODUCTION

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

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

2.1 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 2-1).

Equation 2-1
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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3 DOSIMETRIC ASSESSMENT

3.1 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 3-1) 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 3-1) 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 cDASY6 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 3-1. 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 completed to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

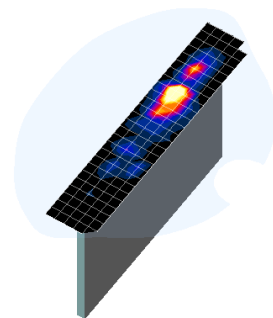


Figure 3-1
Sample SAR Area
Scan

Table 3-1
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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4 TEST CONFIGURATION POSITIONS

4.1 Device Holder

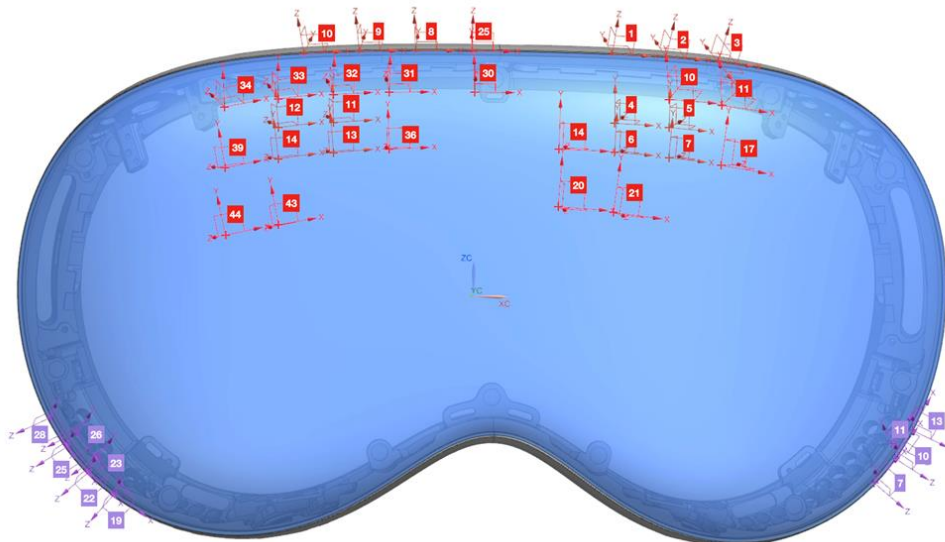
The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

4.2 Positioning for Head

Head mounted devices are designed to be used on the face and, in particular, the eye regions. Since the device is worn in front of the face, SAR testing was performed in a face-down phantom to evaluate all head use case conditions. SAR was evaluated with a separation distance of 0 mm between the device and the eye region of the facedown phantom to mimic expected use conditions. Additionally, the worst-case SAR configuration per band (e.g. 2400-2483.5 MHz, 5150-5250 MHz etc.) was spot-checked with the light seal which is a foam gasket covered in fabric connected to the head mounted device to ensure a good fit and seal out the ambient light. The smallest and largest light seal available were used for the spot-check. The phantom is filled with head tissue equivalent medium.

4.3 Extremity Exposure Conditions

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet, and ankles, may require an extremity SAR evaluation. Per FCC approved test plan, Extremity SAR was evaluated. Based on the simulation data, a few candidates for the maximum averaged E-field location/area on the surface of the device were identified. A tangential plane on the maximum E-field locations were identified and a URE5 Robot was used to position the device in these locations underneath the flat phantom so SAR can be evaluated to confirm the highest SAR value. The separation distance between the device and the flat phantom was 0 mm. A diagram of the locations identified (point scheme schematic) per antenna is shown below. Additionally, the worst-case SAR configuration per band (e.g. 2400-2483.5 MHz, 5150-5250 MHz etc.) was spot-checked with the light seal, which is a foam gasket covered in fabric connected to the head mounted device to ensure a good fit and seal out ambient light. The smallest ("mini") and largest ("main") available light seals were used for the spot-check. The phantom is filled with head tissue-equivalent medium.



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5 RF EXPOSURE LIMITS

5.1 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.

5.2 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.

5.3 RF Exposure Limits for Frequencies Below 6 GHz

Table 5-1
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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5.4 RF Exposure Limits for Frequencies Above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

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

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

Note: 1.0 mW/cm² is 10 W/m²

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6 FCC MEASUREMENT PROCEDURES

6.1 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.

6.1.1 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 a 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

6.1.2 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.

6.1.3 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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6.1.4 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.

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7 RF CONDUCTED POWERS

7.1 WLAN Maximum Time-Averaged Conducted Powers

Table 7-1
2.4 GHz WLAN Maximum Average RF Power – Ant 1, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.56
2417	2		20.57
2437	6		20.80
2462	11		20.54
2.4GHz WIFI (20MHz 802.11g SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.56
2417	2		17.44
2437	6		20.03
2462	11		17.41
2.4GHz WIFI (20MHz 802.11n SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.32
2417	2		18.44
2437	6		20.00
2462	11		17.38
2.4GHz WIFI (20MHz 802.11ac SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.33
2417	2		18.56
2437	6		20.01
2462	11		17.35
2.4GHz WIFI (20MHz 802.11ax SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.55
2417	2		17.85
2437	6		20.08
2462	11		16.54

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Table 7-2
2.4 GHz WLAN Maximum Average RF Power – Ant 1, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.54
2417	2		20.65
2437	6		21.18
2462	11		20.82
2.4GHz WIFI (20MHz 802.11g SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.73
2417	2		18.67
2437	6		20.14
2462	11		17.63
2.4GHz WIFI (20MHz 802.11n SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.69
2417	2		18.52
2437	6		20.03
2462	11		17.50
2.4GHz WIFI (20MHz 802.11ac SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.68
2417	2		18.66
2437	6		20.08
2462	11		17.64
2.4GHz WIFI (20MHz 802.11ax SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.66
2417	2		17.91
2437	6		20.21
2462	11		16.69

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Table 7-3
2.4 GHz WLAN Maximum Average RF Power – Ant 2, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.33
2417	2		20.46
2437	6		20.51
2462	11		20.57
2.4GHz WIFI (20MHz 802.11g SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.50
2417	2		17.74
2437	6		19.98
2462	11		17.46
2.4GHz WIFI (20MHz 802.11n SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.44
2417	2		17.88
2437	6		19.97
2462	11		17.43
2.4GHz WIFI (20MHz 802.11ac SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.53
2417	2		17.53
2437	6		19.99
2462	11		17.45
2.4GHz WIFI (20MHz 802.11ax SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.57
2417	2		17.65
2437	6		19.85
2462	11		16.47

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Table 7-4
2.4 GHz WLAN Maximum Average RF Power – Ant 2, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.26
2417	2		21.12
2437	6		21.07
2462	11		21.04
2.4GHz WIFI (20MHz 802.11g SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.69
2417	2		18.11
2437	6		19.85
2462	11		17.53
2.4GHz WIFI (20MHz 802.11n SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.56
2417	2		17.99
2437	6		19.83
2462	11		17.49
2.4GHz WIFI (20MHz 802.11ac SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.62
2417	2		18.02
2437	6		19.89
2462	11		17.51
2.4GHz WIFI (20MHz 802.11ax SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.53
2417	2		18.05
2437	6		19.84
2462	11		16.42

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Table 7-5
5 GHz WLAN Maximum Average RF Power – Ant 1, Variant 1

5GHz WIFI (40MHz 802.11n SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.14
	5230	46	17.47
UNII-2A	5270	54	18.40
	5310	62	16.27
UNII-3	5755	151	18.44
	5795	159	18.85
5GHz WIFI (40MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.62
	5230	46	17.43
UNII-2A	5270	54	18.06
	5310	62	15.96
UNII-3	5755	151	17.93
	5795	159	17.86
5GHz WIFI (40MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.94
	5230	46	17.37
UNII-2A	5270	54	18.00
	5310	62	15.43
UNII-3	5755	151	17.87
	5795	159	18.80
5GHz WIFI (80MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	16.04
	5610	122	18.34
	5690	138	17.97
5GHz WIFI (80MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.62
	5610	122	17.59
	5690	138	16.94

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Table 7-6
5 GHz WLAN Maximum Average RF Power – Ant 1, Variant 2

5GHz WIFI (40MHz 802.11n SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.15
	5230	46	17.47
UNII-2A	5270	54	18.35
	5310	62	16.22
UNII-3	5755	151	18.16
	5795	159	18.34
5GHz WIFI (40MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.56
	5230	46	17.29
UNII-2A	5270	54	18.07
	5310	62	16.13
UNII-3	5755	151	18.02
	5795	159	18.28
5GHz WIFI (40MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.68
	5230	46	17.35
UNII-2A	5270	54	18.08
	5310	62	15.38
UNII-3	5755	151	18.01
	5795	159	18.30
5GHz WIFI (80MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	16.31
	5610	122	18.46
	5690	138	18.12
5GHz WIFI (80MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.42
	5610	122	17.37
	5690	138	17.16

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Table 7-7
5 GHz WLAN Maximum Average RF Power – Ant 2, Variant 1

5GHz WIFI (40MHz 802.11n SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.16
	5230	46	17.34
UNII-2A	5270	54	16.37
	5310	62	16.18
UNII-3	5755	151	18.11
	5795	159	18.47
5GHz WIFI (40MHz 802.11ac SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.57
	5230	46	16.78
UNII-2A	5270	54	16.17
	5310	62	16.00
UNII-3	5755	151	18.10
	5795	159	18.25
5GHz WIFI (40MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.69
	5230	46	16.83
UNII-2A	5270	54	16.01
	5310	62	15.47
UNII-3	5755	151	18.01
	5795	159	18.41
5GHz WIFI (80MHz 802.11ac SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	16.05
	5610	122	17.85
	5690	138	17.73
5GHz WIFI (80MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.54
	5610	122	17.82
	5690	138	17.69

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Table 7-8
5 GHz WLAN Maximum Average RF Power – Ant 2, Variant 2

5GHz WIFI (40MHz 802.11n SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.05
	5230	46	17.36
UNII-2A	5270	54	16.32
	5310	62	16.29
UNII-3	5755	151	17.81
	5795	159	18.29
5GHz WIFI (40MHz 802.11ac SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.68
	5230	46	16.76
UNII-2A	5270	54	16.18
	5310	62	16.15
UNII-3	5755	151	17.88
	5795	159	18.10
5GHz WIFI (40MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.57
	5230	46	16.83
UNII-2A	5270	54	16.21
	5310	62	15.31
UNII-3	5755	151	17.62
	5795	159	18.17
5GHz WIFI (80MHz 802.11ac SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	16.29
	5610	122	18.01
	5690	138	17.66
5GHz WIFI (80MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	16.17
	5610	122	17.78
	5690	138	17.53

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7.2 Notes for WLAN

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

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions.
- Two device variants are referenced as Variant 1 and Variant 2 in this report.
- WLAN/Bluetooth SAR worst case configuration was spot checked on Variant 1 and Variant 2.

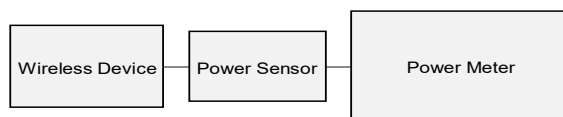


Figure 7-1
Power Measurement Setup

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7.3 Bluetooth Conducted Powers

Table 7-9
Bluetooth Average RF Power – Ant 1, Variant 1

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	19.76	94.624
2441	1.0	39	19.88	97.275
2480	1.0	78	19.89	97.499

Table 7-10
Bluetooth Average RF Power – Ant 1, Variant 2

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	19.69	93.111
2441	1.0	39	19.85	96.605
2480	1.0	78	19.94	98.628

Table 7-11
Bluetooth Average RF Power – Ant 2, Variant 1

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	18.58	72.111
2441	1.0	39	18.63	72.946
2480	1.0	78	18.75	74.989

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Table 7-12
Bluetooth Average RF Power – Ant 2, Variant 2

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	18.50	70.795
2441	1.0	39	18.65	73.282
2480	1.0	78	18.77	75.336

Table 7-13
Bluetooth Average RF Power – Ant NB UNII_L, Variant 1

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	10.33	10.789
2441	1.0	39	10.07	10.162
2480	1.0	78	9.92	9.817

Table 7-14
Bluetooth Average RF Power – Ant NB UNII_L, Variant 2

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	10.11	10.257
2441	1.0	39	9.54	8.995
2480	1.0	78	9.66	9.247

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Table 7-15
NB UNII Average RF Power – Ant NB UNII_R, Variant 1

Band	Frequency	Channel	Average
U-NII 1	5157	Low	4.81
	5201	Mid	4.76
	5245	High	4.80
U-NII 3	5731	Low	4.50
	5788	Mid	4.51
	5844	High	3.36
U-NII 5	6108	Low	-5.62
	6186	Low-Mid	-5.16
	6264	Mid	-5.23
	6342	Mid-High	-5.18
	6420	High	-5.26

Table 7-16
NB UNII Average RF Power – Ant NB UNII_R, Variant 2

Band	Frequency	Channel	Average
U-NII 1	5157	Low	4.83
	5201	Mid	4.79
	5245	High	4.86
U-NII 3	5731	Low	4.93
	5788	Mid	4.76
	5844	High	3.99
U-NII 5	6108	Low	-5.24
	6186	Low-Mid	-5.17
	6264	Mid	-5.24
	6342	Mid-High	-5.13
	6420	High	-5.30

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Table 7-17
NB UNII Average RF Power – Ant NB UNII_L, Variant 1

Band	Frequency	Channel	Average
U-NII 1	5157	Low	4.90
	5201	Mid	4.94
	5245	High	4.75
U-NII 3	5731	Low	4.83
	5788	Mid	4.96
	5844	High	4.24
U-NII 5	6108	Low	-5.25
	6186	Low-Mid	-5.02
	6264	Mid	-5.03
	6342	Mid-High	-5.33
	6420	High	-5.11

Table 7-18
NB UNII Average RF Power – Ant NB UNII_L, Variant 2

Band	Frequency	Channel	Average
U-NII 1	5157	Low	4.95
	5201	Mid	4.79
	5245	High	4.86
U-NII 3	5731	Low	4.73
	5788	Mid	4.74
	5844	High	4.68
U-NII 5	6108	Low	-5.16
	6186	Low-Mid	-5.22
	6264	Mid	-5.42
	6342	Mid-High	-5.39
	6420	High	-5.78

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7.1 Bluetooth Reduced Conducted Powers

Table 7-19
Bluetooth 3.5 dB Reduced Average RF Power – Ant 1, Variant 1

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	15.37	34.435
2441	1.0	39	15.64	36.644
2480	1.0	78	16.10	40.738

Table 7-20
Bluetooth 3.5 dB Reduced Average RF Power – Ant 1, Variant 2

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	15.25	33.497
2441	1.0	39	15.77	37.757
2480	1.0	78	15.98	39.628

Table 7-21
Bluetooth 2 dB Reduced Average RF Power – Ant 2, Variant 1

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	17.13	51.642
2441	1.0	39	17.23	52.845
2480	1.0	78	17.50	56.234

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Table 7-22
Bluetooth 2 dB Reduced Average RF Power – Ant 2, Variant 2

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	17.20	52.481
2441	1.0	39	17.25	53.088
2480	1.0	78	17.48	55.976

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7.2 Bluetooth Duty Cycle

7.2.1 Maximum Bluetooth Transmission

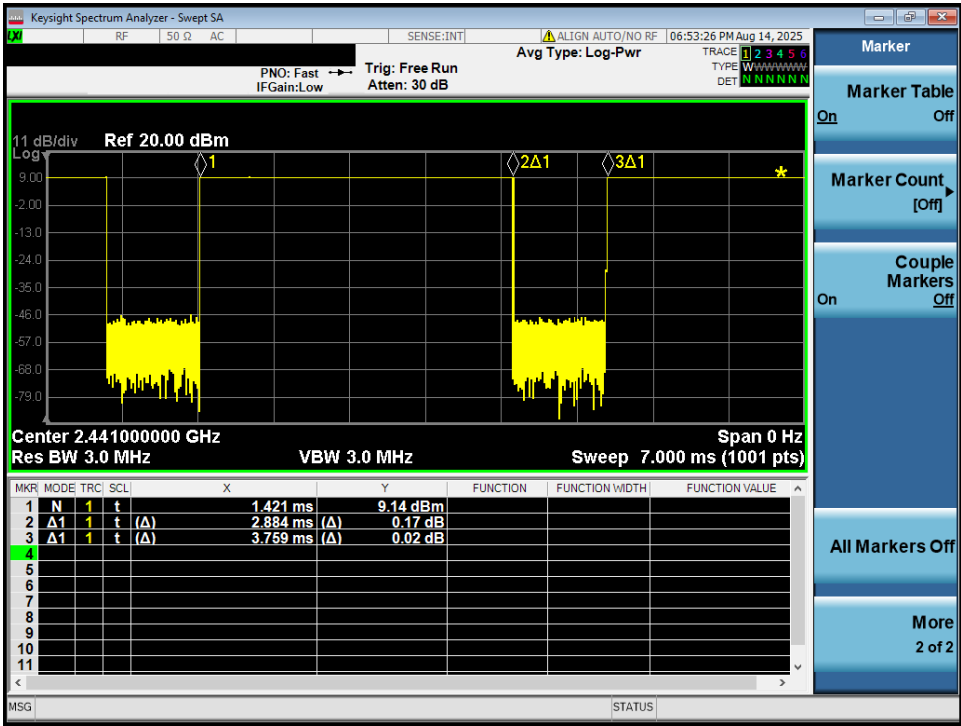


Figure 7-2
2.4 GHz Bluetooth Transmission Plot – Antenna 1, Variant 1

Equation 7-1
2.4 GHz Bluetooth Duty Cycle Calculation – Antenna 1, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.884\ ms}{3.759\ ms} * 100\% = 76.72\%$$

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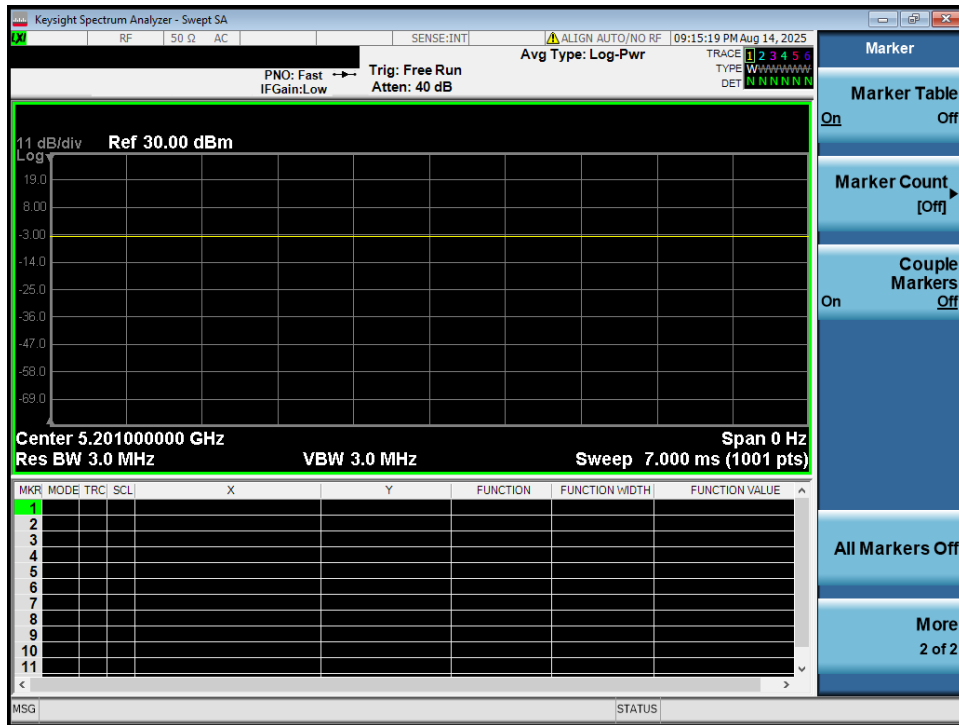


Figure 7-8
NB UNII Transmission Plot – Antenna NB UNII_R, Variant 1

Equation 7-7
NB UNII Duty Cycle Calculation – Antenna NB UNII_R, Variant 1

$$\text{Duty Cycle} = 100\%$$

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Duty Cycle = 100%

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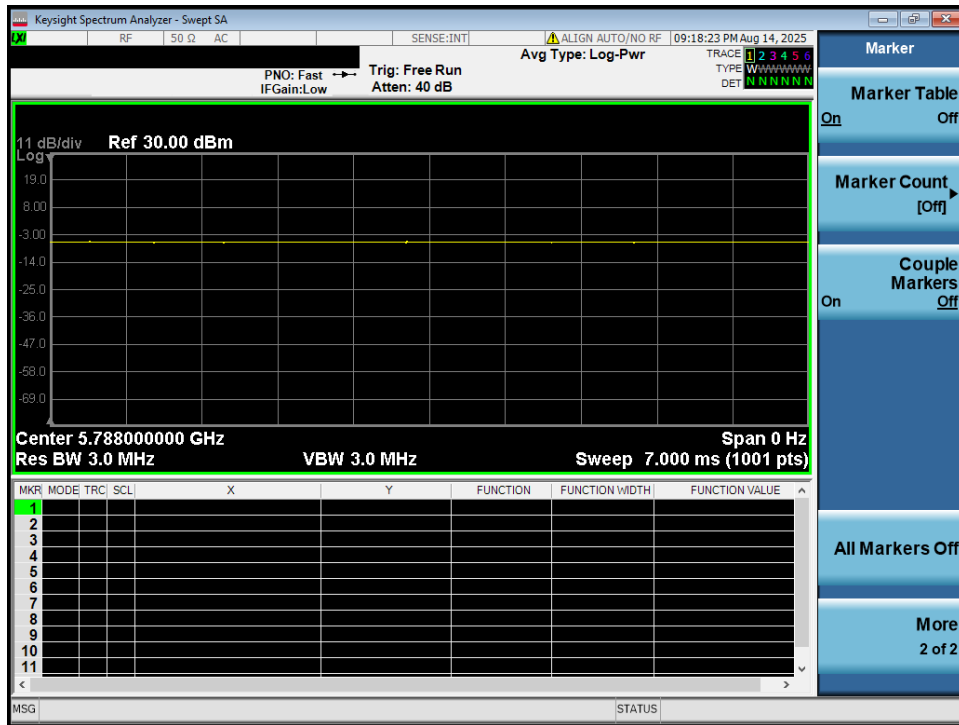


Figure 7-11
NB UNII Transmission Plot – Antenna NB UNII_L, Variant 2

Equation 7-10
NB UNII Duty Cycle Calculation – Antenna NB UNII_L, Variant 2

$$\text{Duty Cycle} = 100\%$$

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7.3 Bluetooth Power Reduction Verification Summary

Table 7-23
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Target Power [dBm] (Tolerance [dB])	Reduced Target Power [dBm] (Tolerance [dB])	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
ANT 1	2.4 GHz Bluetooth	5GHz WLAN Ant 1/2	20	16.5	18.50 (+1.5/-2)	15.00 (+1.5/-2)	18.65	15.17	PASS
ANT 2	2.4 GHz Bluetooth	5GHz WLAN Ant 1/2	20	18	18.50 (+1.5/-2)	16.50 (+1.5/-2)	18.3	16.93	PASS

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

7.4 Notes for Bluetooth

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

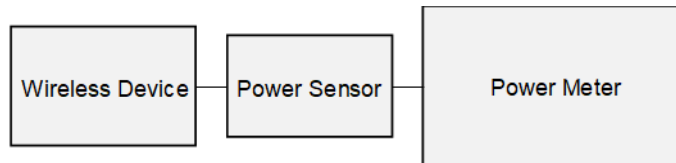


Figure 7-12
Power Measurement Setup

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8 SYSTEM VERIFICATION

8.1 Tissue Verification

Table 8-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
06/16/2025	2450 Head	22.0	2300	1.701	40.010	1.670	39.500	1.86%	1.29%
			2310	1.709	39.992	1.679	39.480	1.79%	1.30%
			2320	1.717	39.979	1.687	39.460	1.78%	1.32%
			2400	1.776	39.855	1.756	39.289	1.14%	1.44%
			2450	1.814	39.791	1.800	39.200	0.78%	1.51%
			2480	1.837	39.721	1.833	39.162	0.22%	1.43%
			2500	1.854	39.684	1.855	39.136	-0.05%	1.40%
			2510	1.861	39.677	1.866	39.123	-0.27%	1.42%
			2535	1.879	39.659	1.893	39.092	-0.74%	1.45%
			2550	1.890	39.634	1.909	39.073	-1.00%	1.44%
			2560	1.897	39.609	1.920	39.060	-1.20%	1.41%
			2600	1.931	39.528	1.964	39.009	-1.68%	1.33%
			2650	1.974	39.474	2.018	38.945	-2.18%	1.36%
			2680	1.998	39.417	2.051	38.907	-2.58%	1.31%
			2700	2.015	39.371	2.073	38.882	-2.80%	1.26%
08/03/2025	2450 Head	20.3	2300	1.667	40.622	1.670	39.500	-0.18%	2.84%
			2310	1.675	40.616	1.679	39.480	-0.24%	2.88%
			2320	1.682	40.608	1.687	39.460	-0.30%	2.91%
			2400	1.744	40.495	1.756	39.289	-0.68%	3.07%
			2450	1.784	40.438	1.800	39.200	-0.89%	3.16%
			2480	1.807	40.372	1.833	39.162	-1.42%	3.09%
			2500	1.824	40.332	1.855	39.136	-1.67%	3.06%
			2510	1.833	40.318	1.866	39.123	-1.77%	3.05%
			2535	1.855	40.288	1.893	39.092	-2.01%	3.06%
			2550	1.867	40.271	1.909	39.073	-2.20%	3.07%
			2560	1.874	40.255	1.920	39.060	-2.40%	3.06%
			2600	1.907	40.159	1.964	39.009	-2.90%	2.95%
			2650	1.950	40.086	2.018	38.945	-3.37%	2.93%
			2680	1.972	40.030	2.051	38.907	-3.85%	2.89%
			2700	1.988	39.980	2.073	38.882	-4.10%	2.82%
08/05/2025	2450 Head	21.7	2300	1.689	40.652	1.670	39.500	1.14%	2.92%
			2310	1.697	40.645	1.679	39.480	1.07%	2.95%
			2320	1.704	40.635	1.687	39.460	1.01%	2.98%
			2400	1.764	40.510	1.756	39.289	0.46%	3.11%
			2450	1.803	40.454	1.800	39.200	0.17%	3.20%
			2480	1.826	40.378	1.833	39.162	-0.38%	3.11%
			2500	1.842	40.335	1.855	39.136	-0.70%	3.06%
			2510	1.851	40.320	1.866	39.123	-0.80%	3.06%
			2535	1.872	40.304	1.893	39.092	-1.11%	3.10%
			2550	1.883	40.287	1.909	39.073	-1.36%	3.11%
			2560	1.890	40.270	1.920	39.060	-1.56%	3.10%
			2600	1.921	40.163	1.964	39.009	-2.19%	2.96%
			2650	1.962	40.102	2.018	38.945	-2.78%	2.97%
			2680	1.984	40.042	2.051	38.907	-3.27%	2.92%
			2700	2.000	39.991	2.073	38.882	-3.52%	2.85%
08/18/2025	2450 Head	21.0	2300	1.676	41.050	1.670	39.500	0.36%	3.92%
			2310	1.684	41.037	1.679	39.480	0.30%	3.94%
			2320	1.691	41.022	1.687	39.460	0.24%	3.96%
			2400	1.750	40.895	1.756	39.289	-0.34%	4.09%
			2450	1.788	40.834	1.800	39.200	-0.67%	4.17%
			2480	1.811	40.782	1.833	39.162	-1.20%	4.14%
			2500	1.827	40.746	1.855	39.136	-1.51%	4.11%
			2510	1.835	40.732	1.866	39.123	-1.66%	4.11%
			2535	1.856	40.702	1.893	39.092	-1.95%	4.12%
			2550	1.868	40.684	1.909	39.073	-2.15%	4.12%
			2560	1.876	40.671	1.920	39.060	-2.29%	4.12%
			2600	1.906	40.600	1.964	39.009	-2.95%	4.08%
			2650	1.950	40.524	2.018	38.945	-3.37%	4.05%
			2680	1.974	40.478	2.051	38.907	-3.75%	4.04%
			2700	1.990	40.438	2.073	38.882	-4.00%	4.00%

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Table 8-2
Measured Head Tissue Properties Cont.

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 Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	% dev σ	% dev ϵ
06/02/2025	5200-5800 Head	19.0	5150	4.405	35.709	4.608	36.050	-4.41%	-0.95%
			5160	4.419	35.683	4.618	36.040	-4.31%	-0.89%
			5170	4.431	35.660	4.629	36.030	-4.28%	-1.03%
			5180	4.447	35.647	4.635	36.009	-4.06%	-1.03%
			5190	4.458	35.623	4.645	35.998	-4.03%	-1.04%
			5200	4.471	35.612	4.655	35.986	-3.95%	-1.04%
			5210	4.482	35.606	4.666	35.975	-3.84%	-1.03%
			5220	4.491	35.598	4.676	35.963	-3.96%	-1.01%
			5240	4.511	35.552	4.696	35.940	-3.90%	-1.08%
			5250	4.524	35.522	4.706	35.929	-3.67%	-1.13%
			5260	4.537	35.512	4.717	35.917	-3.82%	-1.13%
			5270	4.549	35.492	4.727	35.906	-3.77%	-1.15%
			5280	4.563	35.473	4.737	35.894	-3.67%	-1.17%
			5290	4.575	35.449	4.748	35.883	-3.56%	-1.21%
			5300	4.593	35.427	4.758	35.871	-3.47%	-1.24%
			5310	4.607	35.411	4.768	35.860	-3.38%	-1.25%
			5320	4.622	35.404	4.778	35.849	-3.26%	-1.24%
			5500	4.835	35.178	4.963	35.643	-2.58%	-1.30%
			5510	4.849	35.176	4.972	35.632	-2.49%	-1.28%
			5520	4.857	35.170	4.983	35.620	-2.53%	-1.28%
			5530	4.869	35.152	4.994	35.609	-2.50%	-1.28%
			5540	4.883	35.129	5.004	35.597	-2.42%	-1.31%
			5550	4.900	35.116	5.014	35.586	-2.27%	-1.32%
			5560	4.915	35.115	5.024	35.574	-2.09%	-1.29%
			5580	4.934	35.111	5.045	35.551	-2.20%	-1.24%
			5600	4.961	35.083	5.065	35.529	-2.05%	-1.26%
			5610	4.972	35.077	5.076	35.518	-2.05%	-1.24%
			5620	4.982	35.071	5.086	35.506	-2.04%	-1.23%
			5640	4.999	35.027	5.106	35.483	-2.10%	-1.29%
			5660	5.021	34.996	5.127	35.460	-2.07%	-1.31%
			5670	5.030	34.988	5.137	35.449	-2.08%	-1.30%
			5680	5.039	34.970	5.147	35.437	-2.10%	-1.32%
			5690	5.051	34.952	5.158	35.426	-2.07%	-1.34%
			5700	5.067	34.923	5.168	35.414	-1.95%	-1.38%
			5710	5.078	34.906	5.178	35.403	-1.83%	-1.40%
			5720	5.089	34.893	5.188	35.391	-1.91%	-1.41%
			5745	5.121	34.846	5.214	35.363	-1.78%	-1.46%
			5750	5.125	34.831	5.219	35.357	-1.80%	-1.49%
			5755	5.130	34.816	5.224	35.351	-1.80%	-1.51%
			5765	5.135	34.799	5.234	35.340	-1.89%	-1.53%
			5775	5.142	34.783	5.245	35.329	-1.96%	-1.55%
			5785	5.152	34.776	5.255	35.317	-1.96%	-1.53%
			5795	5.162	34.767	5.265	35.305	-1.96%	-1.52%
			5800	5.163	34.755	5.270	35.300	-2.03%	-1.54%
			5800	5.163	34.755	5.270	35.300	-2.03%	-1.54%
			5805	5.165	34.744	5.275	35.294	-2.09%	-1.56%
			5825	5.176	34.710	5.296	35.271	-2.27%	-1.59%
			5835	5.189	34.686	5.305	35.230	-2.19%	-1.54%
			5845	5.201	34.661	5.315	35.210	-2.14%	-1.56%
			5850	5.206	34.646	5.320	35.200	-2.14%	-1.57%
			5855	5.211	34.635	5.325	35.197	-2.14%	-1.60%
			5865	5.223	34.601	5.336	35.190	-2.12%	-1.67%
			5865	5.223	34.601	5.336	35.190	-2.12%	-1.67%
			5865	5.223	34.601	5.336	35.190	-2.12%	-1.67%
			5865	5.223	34.601	5.336	35.190	-2.12%	-1.67%
			5875	5.234	34.560	5.347	35.183	-2.11%	-1.77%
			5885	5.244	34.527	5.357	35.177	-2.11%	-1.85%
			5905	5.265	34.486	5.379	35.163	-2.12%	-1.93%
			5150	4.436	36.184	4.608	36.050	-3.73%	0.37%
			5160	4.448	36.166	4.618	36.040	-3.68%	0.35%
			5170	4.462	36.139	4.629	36.030	-3.61%	0.30%
			5180	4.476	36.108	4.635	36.009	-3.43%	0.27%
			5190	4.490	36.086	4.645	35.998	-3.34%	0.24%
			5200	4.501	36.080	4.655	35.986	-3.27%	0.26%
			5210	4.513	36.065	4.666	35.975	-3.28%	0.25%
			5220	4.521	36.049	4.676	35.963	-3.31%	0.24%
			5240	4.538	36.022	4.696	35.940	-3.36%	0.23%
			5250	4.550	36.009	4.706	35.929	-3.31%	0.22%
			5260	4.561	35.987	4.717	35.917	-3.31%	0.19%
			5270	4.573	35.961	4.727	35.906	-3.26%	0.15%
			5280	4.585	35.934	4.737	35.894	-3.21%	0.11%
			5290	4.601	35.909	4.748	35.883	-3.10%	0.07%
			5300	4.618	35.895	4.758	35.871	-2.94%	0.07%
			5310	4.636	35.862	4.768	35.860	-2.89%	0.09%
			5320	4.638	35.860	4.778	35.849	-2.83%	0.12%
			5500	4.833	35.553	4.963	35.643	-2.62%	-0.25%
			5510	4.845	35.541	4.973	35.632	-2.57%	-0.26%
			5520	4.853	35.526	4.983	35.620	-2.61%	-0.26%
			5530	4.862	35.510	4.994	35.609	-2.64%	-0.26%
			5540	4.873	35.499	5.004	35.597	-2.62%	-0.28%
			5550	4.883	35.483	5.014	35.586	-2.61%	-0.29%
			5560	4.893	35.458	5.024	35.574	-2.61%	-0.33%
			5580	4.915	35.408	5.045	35.551	-2.58%	-0.40%
			5600	4.944	35.372	5.065	35.529	-2.39%	-0.44%
			5610	4.962	35.350	5.076	35.518	-2.25%	-0.47%
			5620	4.979	35.334	5.086	35.506	-2.10%	-0.48%
			5640	4.999	35.312	5.106	35.483	-2.10%	-0.48%
			5660	5.012	35.293	5.127	35.460	-2.24%	-0.47%
			5670	5.026	35.279	5.137	35.449	-2.22%	-0.48%
			5680	5.036	35.252	5.147	35.437	-2.16%	-0.52%
			5690	5.047	35.216	5.158	35.426	-2.15%	-0.59%
			5700	5.061	35.195	5.168	35.414	-2.07%	-0.62%
			5710	5.076	35.174	5.178	35.403	-1.97%	-0.65%
			5720	5.090	35.151	5.188	35.391	-1.89%	-0.68%
			5745	5.112	35.127	5.214	35.363	-1.96%	-0.67%
			5750	5.117	35.120	5.219	35.357	-1.95%	-0.67%
			5755	5.123	35.112	5.224	35.351	-1.93%	-0.68%
			5765	5.134	35.094	5.234	35.340	-1.91%	-0.70%
			5775	5.144	35.079	5.245	35.329	-1.93%	-0.71%
			5785	5.156	35.069	5.255	35.317	-1.88%	-0.70%
			5795	5.168	35.049	5.265	35.305	-1.84%	-0.73%
			5800	5.175	35.042	5.270	35.300	-1.80%	-0.73%
			5800	5.175	35.042	5.270	35.300	-1.80%	-0.73%
			5805	5.183	35.035	5.275	35.294	-1.74%	-0.72%
			5825	5.210	34.983	5.296	35.271	-1.62%	-0.82%
			5835	5.221	34.968	5.305	35.230	-1.58%	-0.74%
			5845	5.232	34.944	5.315	35.210	-1.56%	-0.76%
			5850	5.236	34.941	5.320	35.200	-1.58%	-0.74%
			5855	5.240	34.937	5.325	35.197	-1.60%	-0.74%
			5865	5.248	34.926	5.336	35.190	-1.65%	-0.75%
			5865	5.248	34.926	5.336	35.190	-1.65%	-0.75%
			5865	5.248	34.926	5.336	35.190	-1.65%	-0.75%
			5865	5.248	34.926	5.336	35.190	-1.65%	-0.75%
			5875	5.257	34.922	5.347	35.183	-1.68%	-0.74%
			5885	5.265	34.905	5.357	35.177	-1.64%	-0.77%
			5905	5.295	34.858	5.379	35.163	-1.56%	-0.87%

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**Table 8-3
Measured Head Tissue Properties Cont.**

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
08/25/2025	5200-5800 Head	19.0	5150	4.488	35.980	4.608	36.050	-2.60%	-0.19%
			5160	4.499	35.965	4.618	36.040	-2.58%	-0.21%
			5170	4.509	35.943	4.629	36.030	-2.59%	-0.24%
			5180	4.521	35.919	4.635	36.009	-2.46%	-0.25%
			5190	4.535	35.894	4.645	35.998	-2.37%	-0.29%
			5200	4.548	35.875	4.655	35.986	-2.30%	-0.31%
			5210	4.558	35.859	4.666	35.975	-2.31%	-0.32%
			5220	4.569	35.844	4.676	35.963	-2.29%	-0.33%
			5240	4.594	35.801	4.696	35.940	-2.17%	-0.39%
			5250	4.606	35.784	4.706	35.929	-2.12%	-0.40%
			5260	4.617	35.775	4.717	35.917	-2.12%	-0.40%
			5270	4.625	35.766	4.727	35.906	-2.16%	-0.39%
			5280	4.635	35.737	4.737	35.894	-2.15%	-0.44%
			5290	4.648	35.709	4.748	35.883	-2.11%	-0.48%
			5300	4.662	35.684	4.758	35.871	-2.02%	-0.52%
			5310	4.673	35.671	4.768	35.860	-1.99%	-0.53%
			5320	4.680	35.656	4.778	35.849	-2.05%	-0.54%
			5500	4.888	35.331	4.963	35.643	-1.51%	-0.88%
			5510	4.897	35.314	4.973	35.632	-1.53%	-0.89%
			5520	4.905	35.293	4.983	35.620	-1.57%	-0.92%
			5530	4.915	35.259	4.994	35.609	-1.58%	-0.98%
			5540	4.928	35.228	5.004	35.597	-1.52%	-1.04%
			5550	4.942	35.201	5.014	35.586	-1.44%	-1.08%
			5560	4.955	35.187	5.024	35.574	-1.37%	-1.09%
			5580	4.982	35.179	5.045	35.551	-1.25%	-1.05%
			5600	5.008	35.129	5.065	35.529	-1.13%	-1.13%
			5610	5.021	35.118	5.076	35.518	-1.08%	-1.13%
			5620	5.033	35.099	5.086	35.506	-1.04%	-1.15%
			5640	5.053	35.042	5.106	35.483	-1.04%	-1.24%
			5660	5.077	35.004	5.127	35.460	-0.98%	-1.29%
			5670	5.088	34.999	5.137	35.449	-0.95%	-1.27%
			5680	5.098	34.993	5.147	35.437	-0.95%	-1.25%
			5690	5.113	34.974	5.158	35.426	-0.87%	-1.28%
			5700	5.125	34.953	5.168	35.414	-0.83%	-1.30%
			5710	5.139	34.935	5.178	35.403	-0.75%	-1.32%
			5720	5.151	34.918	5.188	35.391	-0.71%	-1.34%
			5745	5.171	34.866	5.214	35.363	-0.82%	-1.41%
			5750	5.176	34.863	5.219	35.357	-0.82%	-1.40%
			5755	5.181	34.857	5.224	35.351	-0.82%	-1.40%
			5765	5.194	34.840	5.234	35.340	-0.76%	-1.41%
			5775	5.207	34.819	5.245	35.329	-0.72%	-1.44%
			5785	5.224	34.802	5.255	35.317	-0.59%	-1.46%
			5795	5.238	34.791	5.265	35.305	-0.51%	-1.46%
			5800	5.246	34.783	5.270	35.300	-0.46%	-1.46%
			5800	5.246	34.783	5.270	35.300	-0.46%	-1.46%
			5805	5.253	34.768	5.275	35.294	-0.42%	-1.49%
			5825	5.275	34.714	5.296	35.271	-0.40%	-1.58%
			5835	5.285	34.703	5.305	35.230	-0.38%	-1.50%
			5845	5.294	34.691	5.315	35.210	-0.40%	-1.47%
			5850	5.298	34.681	5.320	35.200	-0.41%	-1.47%
			5855	5.302	34.668	5.325	35.197	-0.43%	-1.50%
			5865	5.313	34.646	5.336	35.190	-0.43%	-1.55%
			5865	5.313	34.646	5.336	35.190	-0.43%	-1.55%
			5865	5.313	34.646	5.336	35.190	-0.43%	-1.55%
			5865	5.313	34.646	5.336	35.190	-0.43%	-1.55%
			5875	5.324	34.640	5.347	35.183	-0.43%	-1.54%
			5885	5.339	34.631	5.357	35.177	-0.34%	-1.55%
			5905	5.367	34.595	5.379	35.163	-0.22%	-1.62%
08/22/2025	6000 Head	21.6	5935	5.372	35.147	5.411	35.143	-0.72%	0.01%
			5970	5.405	35.051	5.448	35.120	-0.79%	-0.20%
			5985	5.427	35.024	5.464	35.110	-0.68%	-0.24%
			6000	5.450	35.009	5.480	35.100	-0.55%	-0.26%
			6025	5.487	34.992	5.510	35.070	-0.42%	-0.22%
			6065	5.526	34.893	5.557	35.022	-0.56%	-0.37%
			6075	5.538	34.865	5.569	35.010	-0.56%	-0.41%
			6085	5.553	34.845	5.580	34.998	-0.48%	-0.44%
			6185	5.679	34.655	5.698	34.878	-0.33%	-0.64%
			6275	5.796	34.493	5.805	34.770	-0.16%	-0.80%
			6285	5.804	34.466	5.816	34.758	-0.21%	-0.84%
			6305	5.830	34.420	5.840	34.734	-0.17%	-0.90%
			6345	5.890	34.404	5.887	34.686	0.05%	-0.81%
			6475	6.039	34.170	6.041	34.530	-0.03%	-1.04%
			6485	6.048	34.145	6.052	34.518	-0.07%	-1.08%
			6500	6.063	34.103	6.070	34.500	-0.12%	-1.15%
			6505	6.069	34.088	6.076	34.494	-0.12%	-1.18%
			6545	6.134	34.031	6.122	34.446	0.20%	-1.20%
			6665	6.282	33.819	6.265	34.302	0.27%	-1.41%
			6675	6.292	33.811	6.273	34.290	0.30%	-1.40%
			6685	6.298	33.795	6.285	34.278	0.21%	-1.41%
			6715	6.330	33.705	6.319	34.242	0.17%	-1.57%
			6785	6.423	33.636	6.400	34.158	0.36%	-1.53%
			6825	6.464	33.511	6.447	34.110	0.26%	-1.76%
			6985	6.665	33.283	6.633	33.918	0.48%	-1.87%
			6995	6.671	33.271	6.644	33.906	0.41%	-1.87%
			7000	6.674	33.261	6.650	33.900	0.36%	-1.88%
			7005	6.677	33.248	6.656	33.894	0.32%	-1.91%
			7025	6.695	33.173	6.680	33.870	0.22%	-2.06%
			7500	7.307	32.325	7.240	33.300	0.93%	-2.93%
			7980	7.864	31.523	7.816	32.724	0.61%	-3.67%
			8000	7.868	31.448	7.840	32.700	0.36%	-3.83%

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Table 8-4
Measured Head Tissue Properties Cont.

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
09/02/2025	6000 Head	20.4	5935	5.311	35.056	5.411	35.143	-1.85%	-0.25%
			5970	5.349	34.996	5.448	35.120	-1.82%	-0.35%
			5985	5.367	34.978	5.464	35.110	-1.78%	-0.38%
			6000	5.385	34.958	5.480	35.100	-1.73%	-0.40%
			6025	5.420	34.904	5.510	35.070	-1.63%	-0.47%
			6065	5.467	34.818	5.557	35.022	-1.62%	-0.58%
			6075	5.478	34.806	5.569	35.010	-1.63%	-0.58%
			6085	5.488	34.793	5.580	34.998	-1.65%	-0.59%
			6185	5.612	34.607	5.698	34.878	-1.51%	-0.78%
			6275	5.727	34.448	5.805	34.770	-1.34%	-0.93%
			6285	5.736	34.428	5.816	34.758	-1.38%	-0.95%
			6305	5.756	34.385	5.840	34.734	-1.44%	-1.00%
			6345	5.817	34.324	5.887	34.686	-1.19%	-1.04%
			6475	5.967	34.094	6.041	34.530	-1.22%	-1.26%
			6485	5.977	34.081	6.052	34.518	-1.24%	-1.27%
			6500	5.989	34.060	6.070	34.500	-1.33%	-1.28%
			6505	5.993	34.051	6.076	34.494	-1.37%	-1.28%
			6545	6.045	33.961	6.122	34.446	-1.26%	-1.41%
			6665	6.199	33.757	6.265	34.302	-1.05%	-1.59%
			6675	6.212	33.740	6.273	34.290	-0.97%	-1.60%
			6685	6.225	33.722	6.285	34.278	-0.95%	-1.62%
			6715	6.260	33.682	6.319	34.242	-0.93%	-1.64%
			6785	6.340	33.554	6.400	34.158	-0.94%	-1.77%
			6825	6.384	33.516	6.447	34.110	-0.98%	-1.74%
			6985	6.572	33.249	6.633	33.918	-0.92%	-1.97%
			6995	6.585	33.228	6.644	33.906	-0.89%	-2.00%
			7000	6.591	33.216	6.650	33.900	-0.89%	-2.02%
			7005	6.598	33.211	6.656	33.894	-0.87%	-2.02%
			7025	6.626	33.183	6.680	33.870	-0.81%	-2.03%
			7500	7.191	32.346	7.240	33.300	-0.68%	-2.86%
			7980	7.770	31.544	7.816	32.724	-0.59%	-3.61%
			8000	7.778	31.540	7.840	32.700	-0.79%	-3.55%

Note: Per April 2019 TCB Workshop Notes, single head-tissue simulating liquid specified in IEC 62209-1 is permitted to use for all SAR tests. The above measured tissue parameters were used in the cDASY6 software. The cDASY6 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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8.2 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 SAR System Validation Appendix.

Table 8-5
System Verification Results – 1g

System Verification TARGET & MEASURED																					
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp.(C)	Liquid Temp.(C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
AM11	2450	HEAD	08/03/2025	23.1	21.4	0.10	855	7551	1323	4.930	52.400	49.300	-5.92%	2.340	24.600	23.400	-4.88%				
AM11	2450	HEAD	08/05/2025	21.9	21.6	0.10	855	7551	1323	5.150	52.400	51.500	-1.72%	2.420	24.600	24.200	-1.63%				
AM11	5250	HEAD	08/11/2025	20.7	21.1	0.05	1066	7551	1323	3.840	77.900	76.800	-1.41%	1.130	22.500	22.600	0.44%				
AM11	5600	HEAD	08/11/2025	20.7	21.1	0.05	1066	7551	1323	4.250	81.800	85.000	3.91%	1.230	23.700	24.600	3.80%				
AM11	5750	HEAD	08/11/2025	20.7	21.1	0.05	1066	7551	1323	3.960	80.700	79.200	-1.86%	1.160	23.200	23.200	0.00%				
AM11	5850	HEAD	08/11/2025	20.7	21.1	0.05	1066	7551	1323	4.110	77.400	82.200	6.20%	1.190	22.200	23.800	7.21%				
AM11	6500	HEAD	09/02/2025	19.7	19.0	0.03	1019	7490	1323	7.020	300.000	280.800	-6.40%	1.280	55.100	51.200	-7.08%	31.1	1340	1244	-7.16%

Table 8-3
System Verification Results – 10g

System Verification TARGET & MEASURED																					
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
AM11	2450	HEAD	06/16/2025	22.1	22.0	0.10	750	7551	1323	5.600	53.300	56.000	5.07%	2.600	25.100	26.000	3.59%				
AM11	2450	HEAD	08/18/2025	19.9	19.3	0.10	855	7551	1323	5.650	52.400	56.500	7.82%	2.650	24.600	26.500	7.72%				
AM11	5250	HEAD	06/02/2025	20.2	19.5	0.05	1163	7551	1323	3.920	78.800	78.400	-0.51%	1.120	22.300	22.400	0.45%				
AM11	5250	HEAD	08/25/2025	19.5	19.4	0.05	1163	7551	1323	3.950	78.800	79.000	0.25%	1.120	22.300	22.400	0.45%				
AM11	5600	HEAD	06/02/2025	20.2	19.5	0.05	1163	7551	1323	3.930	80.900	78.600	-2.94%	1.120	23.000	22.400	-2.61%				
AM11	5600	HEAD	08/25/2025	19.5	19.4	0.05	1163	7551	1323	4.140	80.900	82.800	2.35%	1.160	23.000	23.200	0.87%				
AM11	5750	HEAD	06/02/2025	20.2	19.5	0.05	1163	7551	1323	3.860	78.100	77.200	-1.15%	1.090	22.100	21.800	-1.36%				
AM11	5750	HEAD	08/25/2025	19.5	19.4	0.05	1163	7551	1323	4.090	78.100	81.800	4.74%	1.160	22.100	23.200	4.98%				
AM11	5850	HEAD	06/02/2025	20.2	19.5	0.05	1163	7551	1323	4.020	79.800	80.400	0.75%	1.130	22.500	22.600	0.44%				
AM11	5850	HEAD	08/25/2025	19.5	19.4	0.05	1163	7551	1323	4.180	79.800	83.600	4.76%	1.170	22.500	23.400	4.00%				
AM11	6500	HEAD	08/22/2025	20.3	19.8	0.03	1019	7490	1323	6.970	300.000	278.800	-7.07%	1.280	55.100	51.200	-7.08%	31.1	1340	1244	-7.16%

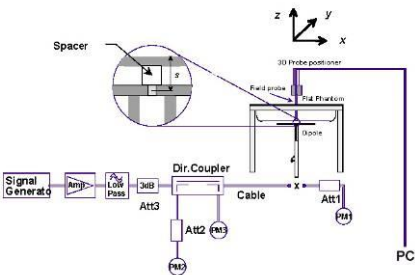


Figure 8-1
System Verification Setup Diagram



Figure 8-2
System Verification Setup Photo

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8.1 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.

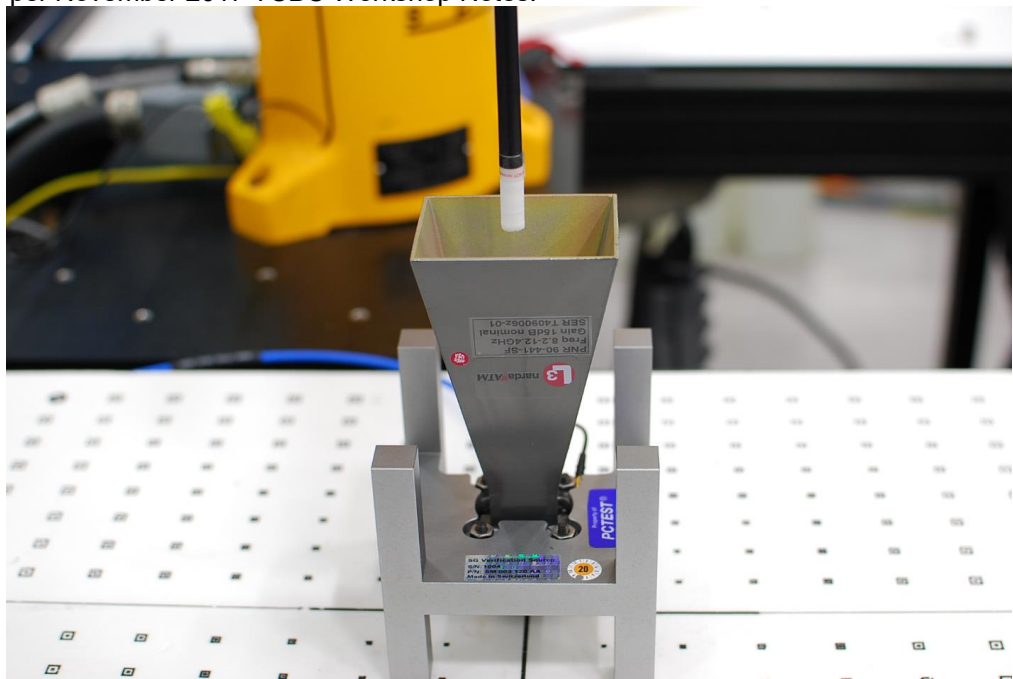


Figure 8-3
System Verification Setup Photo

Table 8-6
10 GHz Verification Results

System Verification												
System	Frequency (GHz)	Date	Source S/N	DAE S/N	Probe S/N	Prad (mW)	Normal psPD (W/m² over 4 cm²)		Deviation (dB)	Total psPD (W/m² over 4 cm²)		Deviation (dB)
							Measured	Target		Measured	Target	
AM12	10	08/08/2025	1006 - 10/8/2024	1408	9487	93.3	56.40	57.90	-0.11	57.40	58.10	-0.05

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

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9

SAR DATA SUMMARY

9.1 2.4 GHz WIFI SISO Standalone Head SAR

Table 9-1
Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	1	N/A	HK52T4	97.47	0.08	2417.00	2	1	21.50	20.57	Face-Down	0	V1	0.028	1.239	1.026	0.036	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	1	N/A	9KLWW4	97.57	-0.04	2417.00	2	1	21.50	20.65	Face-Down	0	V2	0.028	1.216	1.025	0.035	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	1	N/A	HK52T4	97.47	0.10	2437.00	6	1	21.50	20.80	Face-Down	0	V1	0.022	1.175	1.026	0.027	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	1	N/A	HK52T4	97.47	0.05	2462.00	11	1	21.50	20.94	Face-Down	0	V1	0.020	1.247	1.026	0.026	
ANSI/IEEE C63.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram				

Table 9-2
Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2	N/A	HK52T4	97.48	0.05	2417.00	2	1	21.50	20.46	Face-Down	0	V1	0.039	1.271	1.026	0.051	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2	N/A	9KLWW4	97.57	0.08	2437.00	6	1	21.50	21.07	Face-Down	0	V2	0.035	1.104	1.025	0.040	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2	N/A	HK52T4	97.48	0.01	2437.00	6	1	21.50	20.51	Face-Down	0	V1	0.046	1.256	1.026	0.059	A1
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2	N/A	HK52T4	97.48	0.02	2462.00	11	1	21.50	20.97	Face-Down	0	V1	0.042	1.239	1.026	0.053	
ANSI/IEEE C63.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram				

9.2 2.4 GHz WIFI SISO Standalone Extremity SAR

Table 9-3
Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Point Scheme	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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	Main Light Seal	8	9KLWW4	97.57	-0.02	2437.00	6	1	21.50	21.18	Front	0	V2	2.390	1.076	1.025	2.636	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	Mini Light Seal	8	9KLWW4	97.57	-0.02	2437.00	6	1	21.50	21.18	Front	0	V2	2.450	1.076	1.025	2.702	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	9	X52T4	97.47	-0.02	2437.00	6	1	21.50	20.80	Front	0	V1	2.080	1.175	1.026	2.508	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	8	X52T4	97.47	-0.35	2417.00	2	1	21.50	20.57	Front	0	V1	1.990	1.239	1.026	2.530	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	8	X52T4	97.47	0.01	2437.00	6	1	21.50	20.80	Front	0	V1	2.140	1.175	1.026	2.580	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	8	9KLWW4	97.57	-0.04	2437.00	6	1	21.50	21.18	Front	0	V2	2.450	1.076	1.025	2.702	A2
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	8	9KLWW4	97.57	0.01	2437.00	6	1	21.50	21.18	Front	0	V2	2.450	1.076	1.025	2.702	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	8	X52T4	97.47	0.01	2462.00	11	1	21.50	20.54	Front	0	V1	1.880	1.247	1.026	2.405	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	32	X52T4	97.47	0.05	2437.00	6	1	21.50	20.80	Front	0	V1	1.210	1.175	1.026	1.459	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	31	X52T4	97.47	0.07	2437.00	6	1	21.50	20.80	Front	0	V1	1.400	1.175	1.026	1.688	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	30	X52T4	97.47	0.09	2437.00	6	1	21.50	20.80	Front	0	V1	1.480	1.175	1.026	1.784	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	25	X52T4	97.47	0.11	2437.00	6	1	21.50	20.80	Front	0	V1	2.020	1.175	1.026	2.435	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	10	X52T4	97.47	0.02	2437.00	6	1	21.50	20.80	Front	0	V1	1.890	1.175	1.026	2.278	
ANSI/IEEE C63.1992 - SAFETY LIMIT																	Extremity					
Spatial Peak																	4.0 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 10 grams					

Note: Blue entry represents variability measurement

Note: Blue entry represents variability measurement

Table 9-4
Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Act.	Cover	Point Scheme	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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	N/A	4	X52T4	97.48	-0.05	2462.00	11	1	21.50	20.57	Front	0	V1	1.240	1.239	1.026	1.576	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	N/A	3	X52T4	97.48	0.01	2462.00	11	1	21.50	20.57	Front	0	V1	1.670	1.239	1.026	2.123	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	N/A	2	X52T4	97.48	0.00	2417.00	2	1	21.50	20.46	Front	0	V1	1.150	1.271	1.026	2.021	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	N/A	2	X52T4	97.48	0.01	2437.00	6	1	21.50	20.51	Front	0	V1	1.810	1.256	1.026	2.332	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	N/A	2	9KLWW4	97.57	-0.09	2437.00	6	1	21.50	21.07	Front	0	V2	1.810	1.104	1.025	2.048	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	N/A	2	X52T4	97.48	0.01	2462.00	11	1	21.50	20.57	Front	0	V1	1.700	1.239	1.026	2.161	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	N/A	11	X52T4	97.48	0.01	2462.00	11	1	21.50	20.57	Front	0	V1	1.620	1.239	1.026	2.099	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	N/A	10	X52T4	97.48	0.03	2462.00	11	1	21.50	20.57	Front	0	V1	1.430	1.239	1.026	1.818	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	N/A	1	X52T4	97.48	0.00	2462.00	11	1	21.50	20.57	Front	0	V1	1.530	1.239	1.026	1.945	
ANSI/IEEE C63.1992 - SAFETY LIMIT																			Extremity			
Spatial Peak																			4.0 W/kg (mW/g)			
Uncontrolled Exposure/General Population																			averaged over 10 grams			

FCC ID: BCGA3416

RF EXPOSURE REPORT

Approved by:

Technical Manager

DUT Type:

Head Mounted Device

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9.3 5 GHz WIFI SISO Standalone Head SAR

Table 9-5
UNII-2A Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	9KLWW4	97.52	0.03	5270.00	54	U-NII-2A	13.5	18.50	18.35	Face-Down	0	V2	0.018	1.035	1.025	0.019	
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	HXS2T4	97.40	0.02	5270.00	54	U-NII-2A	13.5	18.50	18.40	Face-Down	0	V1	0.001	1.033	1.027	0.003	
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	9KLWW4	97.52	0.04	5310.00	62	U-NII-2A	13.5	16.50	16.22	Face-Down	0	V2	0.000	1.067	1.025	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-6
UNII-2C Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	Main Light Seal	9KLWW4	95.00	0.04	5690.00	138	U-NII-2C	29.3	18.50	18.12	Face-Down	0	V2	0.010	1.091	1.053	0.011	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	Mini Light Seal	9KLWW4	95.00	0.06	5690.00	138	U-NII-2C	29.3	18.50	18.12	Face-Down	0	V2	0.013	1.091	1.053	0.013	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	9KLWW4	95.00	0.08	5530.00	106	U-NII-2C	29.3	16.50	16.31	Face-Down	0	V2	0.005	1.045	1.053	0.006	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	9KLWW4	95.00	0.10	5610.00	122	U-NII-2C	29.3	18.50	18.46	Face-Down	0	V2	0.004	1.009	1.053	0.004	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	HXS2T4	94.83	0.07	5690.00	138	U-NII-2C	29.3	18.50	17.97	Face-Down	0	V1	0.012	1.130	1.055	0.014	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	9KLWW4	95.00	0.01	5690.00	138	U-NII-2C	29.3	18.50	18.12	Face-Down	0	V2	0.012	1.091	1.053	0.015	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-7
UNII-3 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	9KLWW4	88.33	0.04	5755.00	151	U-NII-3	13.5	19.25	18.16	Face-Down	0	V2	0.017	1.285	1.017	0.022	
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	9KLWW4	88.33	0.18	5795.00	159	U-NII-3	13.5	19.25	18.34	Face-Down	0	V2	0.021	1.213	1.017	0.026	
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	HXS2T4	97.92	0.19	5795.00	159	U-NII-3	13.5	19.25	18.85	Face-Down	0	V1	0.026	1.096	1.021	0.029	A3
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-8
UNII-2A Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	HXS2T4	97.42	0.07	5270.00	54	U-NII-2A	13.5	17.75	16.37	Face-Down	0	V1	0.098	1.374	1.026	0.098	
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	9KLWW4	97.52	0.08	5270.00	54	U-NII-2A	13.5	17.75	16.32	Face-Down	0	V2	0.003	1.390	1.025	0.004	
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	9KLWW4	97.52	0.09	5310.00	62	U-NII-2A	13.5	16.50	16.29	Face-Down	0	V2	0.000	1.050	1.025	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-9
UNII-2C Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2	N/A	9KLWW4	95.08	0.09	5530.00	106	U-NII-2C	29.3	16.50	16.29	Face-Down	0	V2	0.002	1.050	1.052	0.002	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2	N/A	9KLWW4	95.08	0.06	5610.00	122	U-NII-2C	29.3	18.25	18.01	Face-Down	0	V2	0.010	1.057	1.052	0.011	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2	N/A	HXS2T4	94.83	0.05	5610.00	122	U-NII-2C	29.3	18.25	17.85	Face-Down	0	V1	0.009	1.096	1.055	0.010	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2	N/A	9KLWW4	95.08	0.02	5690.00	138	U-NII-2C	29.3	18.25	17.66	Face-Down	0	V2	0.006	1.146	1.052	0.007	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-10
UNII-3 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	9KLWW4	97.52	0.08	5755.00	151	U-NII-3	13.5	19.00	17.81	Face-Down	0	V2	0.012	1.315	1.025	0.016	
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	HXS2T4	97.40	0.02	5755.00	151	U-NII-3	13.5	19.00	18.11	Face-Down	0	V1	0.019	1.227	1.027	0.024	
Head	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	9KLWW4	97.52	0.05	5795.00	159	U-NII-3	13.5	19.00	18.29	Face-Down	0	V2	0.003	1.178	1.025	0.004	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram							

FCC ID: BCGA3416

RF EXPOSURE REPORT

Approved by:
Technical Manager

DUT Type:
Head Mounted Device

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REV 23.0
05/07/2025

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9.4 5 GHz WIFI SISO Standalone Extremity SAR

Table 9-11
UNII-2A Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Point Scheme	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	39	9KLWW4	97.52	-0.19	5270.00	54	U-NII-2A	13.5	18.50	18.35	Front	0	V2	1.900	1.035	1.025	2.089	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	34	9KLWW4	97.52	-0.38	5270.00	54	U-NII-2A	13.5	18.50	18.35	Front	0	V2	1.970	1.035	1.025	2.090	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	33	9KLWW4	97.52	-0.03	5270.00	54	U-NII-2A	13.5	18.50	18.35	Front	0	V2	2.150	1.035	1.025	2.281	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	14	9KLWW4	97.52	-0.07	5270.00	54	U-NII-2A	13.5	18.50	18.35	Front	0	V2	2.150	1.035	1.025	2.291	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	13	9KLWW4	97.52	-0.15	5270.00	54	U-NII-2A	13.5	18.50	18.35	Front	0	V2	2.010	1.035	1.025	2.132	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	12	HXS2T4	97.40	-0.03	5270.00	54	U-NII-2A	13.5	18.50	18.40	Front	0	V1	2.630	1.023	1.027	2.753	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	12	9KLWW4	97.52	-0.08	5270.00	54	U-NII-2A	13.5	18.50	18.35	Front	0	V2	2.750	1.035	1.025	2.917	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	12	9KLWW4	97.52	-0.06	5270.00	54	U-NII-2A	13.5	18.50	18.35	Front	0	V2	2.670	1.035	1.025	2.838	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	12	9KLWW4	97.52	-0.04	5310.00	62	U-NII-2A	13.5	16.50	16.22	Front	0	V2	1.470	1.067	1.025	1.608	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	11	9KLWW4	97.52	-0.11	5270.00	54	U-NII-2A	13.5	18.50	18.35	Front	0	V2	2.120	1.035	1.025	2.249	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																				Extremity 4.0 W/kg (mW/g) averaged over 10 grams			

Note: Blue entry represents variability measurement

Table 9-12
UNII-2C Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Point Scheme	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	Main Light Seal	12	9KLWW4	95.00	-0.18	5610.00	122	U-NII-2C	29.3	18.50	18.46	Front	0	V2	2.160	1.009	1.053	2.295	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	Mini Light Seal	12	9KLWW4	95.00	-0.05	5610.00	122	U-NII-2C	29.3	18.50	18.46	Front	0	V2	2.260	1.009	1.053	2.401	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	39	9KLWW4	95.00	-0.13	5610.00	122	U-NII-2C	29.3	18.50	18.46	Front	0	V2	1.900	1.009	1.053	2.019	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	34	9KLWW4	95.00	-0.03	5610.00	122	U-NII-2C	29.3	18.50	18.46	Front	0	V2	1.730	1.009	1.053	1.838	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	33	9KLWW4	95.00	-0.08	5610.00	122	U-NII-2C	29.3	18.50	18.46	Front	0	V2	1.970	1.009	1.053	2.089	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	14	9KLWW4	95.00	-0.00	5610.00	122	U-NII-2C	29.3	18.50	18.46	Front	0	V2	2.030	1.009	1.053	2.157	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	13	9KLWW4	95.00	-0.04	5610.00	122	U-NII-2C	29.3	18.50	18.46	Front	0	V2	2.000	1.009	1.053	2.178	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	12	9KLWW4	95.00	-0.00	5310.00	106	U-NII-2C	29.3	16.50	16.33	Front	0	V2	1.460	1.045	1.053	1.761	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	12	XL2W5	94.83	-0.06	5610.00	122	U-NII-2C	29.3	18.50	18.34	Front	0	V1	2.680	1.008	1.055	2.835	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	5	N/A	12	9KLWW4	95.00	-0.09	5610.00	122	U-NII-2C	29.3	18.50	18.46	Front	0	V2	2.770	1.009	1.053	2.943	A4
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	12	9KLWW4	95.00	-0.00	5610.00	122	U-NII-2C	29.3	18.50	18.46	Front	0	V2	1.970	1.009	1.053	2.092	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	12	9KLWW4	95.00	-0.05	5690.00	138	U-NII-2C	29.3	18.50	18.32	Front	0	V2	1.930	1.051	1.053	2.194	
Extremity	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	11	9KLWW4	95.00	-0.13	5610.00	122	U-NII-2C	29.3	18.50	18.46	Front	0	V2	2.030	1.009	1.053	2.157	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																				Extremity 4.0 W/kg (mW/g) averaged over 10 grams			

Note: Blue entry represents variability measurement

Table 9-13
UNII-3 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Point Scheme	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	Main Light Seal	11	9KLWW4	98.33	0.03	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	2.040	1.233	1.017	2.558	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	Mini Light Seal	11	9KLWW4	98.33	-0.12	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	2.110	1.233	1.017	2.646	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	36	9KLWW4	98.33	-0.17	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	2.060	1.233	1.017	2.558	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	34	9KLWW4	98.33	-0.20	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	1.630	1.233	1.017	2.044	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	33	9KLWW4	98.33	0.02	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	1.970	1.233	1.017	2.470	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	32	9KLWW4	98.33	-0.02	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	2.090	1.233	1.017	2.621	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	31	9KLWW4	98.33	-0.02	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	1.970	1.233	1.017	2.470	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	14	9KLWW4	98.33	0.01	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	2.140	1.233	1.017	2.683	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	13	9KLWW4	98.33	0.06	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	2.190	1.233	1.017	2.746	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	12	9KLWW4	98.33	-0.01	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	2.190	1.233	1.017	2.746	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	11	9KLWW4	98.33	0.05	5751.00	151	U-NII-3	13.5	19.25	18.16	Front	0	V2	1.830	1.285	1.017	2.391	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	11	9KLWW4	98.33	-0.08	5795.00	159	U-NII-3	13.5	19.25	18.34	Front	0	V2	2.220	1.233	1.017	2.821	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	11	HXS2T4	97.62	-0.04	5795.00	159	U-NII-3	13.5	19.25	18.45	Front	0	V1	2.480	1.086	1.021	2.776	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	1	N/A	11	HXS2T4	97.92	-0.01	5795.00	159	U-NII-3	13.5	19.25	18.45	Front	0	V1	2.530	1.086	1.021	2.808	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																				Extremity 4.0 W/kg (mW/g) averaged over 10 grams			

Note: Blue entry represents variability measurement

Table 9-14
UNII-2A Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Point Scheme	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	Main Light Seal	5	HXS2T4	97.42	0.02	5270.00	54	U-NII-2A	13.5	17.75	16.37	Front	0	V1	2.050	1.374	1.026	2.890	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	Mini Light Seal	5	HXS2T4	97.42	-0.35	5270.00	54	U-NII-2A	13.5	17.75	16.37	Front	0	V1	2.080	1.374	1.026	2.904	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	7	HXS2T4	97.42	0.06	5270.00	54	U-NII-2A	13.5	17.75	16.37	Front	0	V1	2.060	1.374	1.026	2.890	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	6	HXS2T4	97.42	-0.07	5270.00	54	U-NII-2A	13.5	17.75	16.37	Front	0	V1	2.090	1.374	1.026	2.976	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	5	HXS2T4	97.42	-0.21	5270.00	54	U-NII-2A	13.5	17.75	16.37	Front	0	V1	2.050	1.374	1.026	2.946	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	5	9KLWW4	97.52	0.00	5270.00	54	U-NII-2A	13.5	17.75	16.32	Front	0	V2	1.980	1.390	1.025	2.821	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	5	HXS2T4	97.42	0.06	5310.00	62	U-NII-2A	13.5	16.50	16.18	Front	0	V1	1.390	1.076	1.026	1.535	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	4	HXS2T4	97.42	0.12	5270.00	54	U-NII-2A	13.5	17.75	16.37	Front	0	V1	2.090	1.374	1.026	2.862	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	17	HXS2T4	97.42	0.03	5270.00	54	U-NII-2A	13.5	17.75	16.37	Front	0	V1	1.830	1.374	1.026	2.580	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	11	HXS2T4	97.42	-0.05	5270.00	54	U-NII-2A	13.5	17.75	16.37	Front	0	V1	1.740	1.374	1.026	2.453	
Extremity	5 GHz WiFi / IEEE 802.11n	40	OFDM	2	N/A	10	HXS2T4	97.42	-0.02	5270.00	54	U-NII-2A	13.5	17.75	16.37	Front	0	V1	1.860	1.374	1.026	2.622	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																			Spatial Peak				
Uncontrolled Exposure/General Population																			Extremity				
																			4.0 W/kg (mW/g)				
																			averaged 10 grams				

Table 9-15
UNII-2C Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Point Scheme	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2	N/A	7	YL3ZW5	94.83	0.09	5610.00	122	U-NII-2C	29.3	18.25	17.85	Front	0	V1	2.460	1.096	1.055	2.844	
Extremity	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2	N/A	6	YL3ZW5	94.83	0.15	5610.00	122	U-NII-2C	29.3	18.25	17.85	Front	0	V1	2.300	1.096	1.055	2.659	
Extremity	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2	N/A	5	YL3ZW5	94.83	0.08	5610.00	106	U-NII-2C	29.3	16.50	16.05	Front	0	V1	1.640	1.096	1.055	1.915	
Extremity	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2	N/A	5	YL3ZW5	94.83	0.08	5610.00	122	U-NII-2C	29.3	18.25	17.85	Front	0	V1	2.510	1.096	1.055	2.902	
Extremity	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2	N/A	5	9KLWW4	95.08	0.04	5610.00	122	U-NII-2C	29.3	18.25	18.01	Front	0	V2	2.590	1.057	1.052	2.880	
Extremity	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2	N/A	5	YL3ZW5	94.83	-0.03	5690.00	138	U-NII-2C	29.3	18.25	17.73	Front	0	V1	2.210	1.127	1.055	2.628	
Extremity	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2	N/A	4	YL3ZW5	94.83	0.09	5610.00	122	U-NII-2C	29.3	18.25	17.85	Front	0	V1	2.280	1.096	1.055	2.636	
Extremity	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2	N/A	17	YL3ZW5	94.83	-0.04	5610.00	122	U-NII-2C	29.3	18.25	17.85	Front	0	V1	2.220	1.096	1.055	2.567	
Extremity	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2	N/A	11	YL3ZW5	94.83	0.09	5610.00	122	U-NII-2C	29.3	18.25	17.85	Front	0	V1	2.030	1.096	1.055	2.347	
Extremity	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2	N/A	10	YL3ZW5	94.83	0.09	5610.00	122	U-NII-2C	29.3	18.25	17.85	Front	0	V1	2.010	1.096	1.055	2.324	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

Table 9-16
UNII-3 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Cover	Point Scheme	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	5 GHz WIF/ IEEE 802.11n	40	OFDM	2	N/A	7	HXS2T4	97.40	0.00	5795.00	159	U-NII-3	13.5	19.00	18.47	Front	0	V1	1.820	1.130	1.027	2.111	
Extremity	5 GHz WIF/ IEEE 802.11n	40	OFDM	2	N/A	6	HXS2T4	97.40	0.00	5795.00	159	U-NII-3	13.5	19.00	18.47	Front	0	V1	1.820	1.130	1.027	2.111	
Extremity	5 GHz WIF/ IEEE 802.11n	40	OFDM	2	N/A	5	HXS2T4	97.40	0.12	5755.00	151	U-NII-3	13.5	19.00	18.11	Front	0	V1	2.110	1.227	1.027	2.658	
Extremity	5 GHz WIF/ IEEE 802.11n	40	OFDM	2	N/A	5	9KLWW4	97.52	0.00	5755.00	151	U-NII-3	13.5	19.00	17.81	Front	0	V2	1.880	1.315	1.025	2.335	
Extremity	5 GHz WIF/ IEEE 802.11n	40	OFDM	2	N/A	5	HXS2T4	97.40	0.00	5795.00	159	U-NII-3	13.5	19.00	18.47	Front	0	V1	2.150	1.130	1.027	2.494	
Extremity	5 GHz WIF/ IEEE 802.11n	40	OFDM	2	N/A	4	HXS2T4	97.40	0.01	5795.00	159	U-NII-3	13.5	19.00	18.47	Front	0	V1	1.805	1.130	1.027	2.146	
Extremity	5 GHz WIF/ IEEE 802.11n	40	OFDM	2	N/A	17	HXS2T4	97.40	0.00	5795.00	159	U-NII-3	13.5	19.00	18.47	Front	0	V1	2.020	1.130	1.027	2.344	
Extremity	5 GHz WIF/ IEEE 802.11n	40	OFDM	2	N/A	11	HXS2T4	97.40	-0.02	5795.00	159	U-NII-3	13.5	19.00	18.47	Front	0	V1	1.890	1.130	1.027	2.193	
Extremity	5 GHz WIF/ IEEE 802.11n	40	OFDM	2	N/A	10	HXS2T4	97.40	0.06	5795.00	159	U-NII-3	13.5	19.00	18.47	Front	0	V1	1.860	1.130	1.027	2.158	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

9.5 2.4 GHz Bluetooth SISO Standalone Head SAR

Table 9-17
Antenna 1

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	2.4 GHz Bluetooth	PHSS	1	N/A	9KLWW4	76.45	0.04	2402.00	0	1	20.00	19.69	Face-Down	0	V2	0.008	1.074	1.014	0.009	
Head	2.4 GHz Bluetooth	PHSS	1	N/A	HXS2T4	76.72	0.01	2441.00	39	1	20.00	19.88	Face-Down	0	V1	0.019	1.028	1.010	0.020	
Head	2.4 GHz Bluetooth	PHSS	1	N/A	9KLWW4	76.45	0.07	2441.00	39	1	20.00	19.85	Face-Down	0	V2	0.020	1.035	1.014	0.021	
Head	2.4 GHz Bluetooth	PHSS	1	N/A	9KLWW4	76.45	0.07	2480.00	78	1	20.00	19.94	Face-Down	0	V2	0.011	1.014	1.014	0.011	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Head 1.6 W/kg (mW/g) averaged over 1 gram				

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

Table 9-18
Antenna 2

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	2.4 GHz Bluetooth	PHSS	2	Main Light Seal	9KLWW4	76.54	0.03	2441.00	39	1	20.00	18.65	Face-Down	0	V2	0.032	1.365	1.013	0.044	
Head	2.4 GHz Bluetooth	PHSS	2	Mini Light Seal	9KLWW4	76.54	0.02	2441.00	39	1	20.00	18.65	Face-Down	0	V2	0.035	1.365	1.013	0.048	
Head	2.4 GHz Bluetooth	PHSS	2	N/A	HXS2T4	76.49	0.02	2402.00	0	1	20.00	18.58	Face-Down	0	V1	0.027	1.387	1.013	0.038	
Head	2.4 GHz Bluetooth	PHSS	2	N/A	HXS2T4	76.49	0.01	2441.00	39	1	20.00	18.63	Face-Down	0	V1	0.050	1.371	1.013	0.069	
Head	2.4 GHz Bluetooth	PHSS	2	N/A	9KLWW4	76.54	0.19	2441.00	39	1	20.00	18.65	Face-Down	0	V2	0.052	1.365	1.013	0.072	A5
Head	2.4 GHz Bluetooth	PHSS	2	N/A	HXS2T4	76.49	-0.10	2480.00	78	1	20.00	18.75	Face-Down	0	V1	0.040	1.334	1.013	0.054	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Head 1.6 W/kg (mW/g) averaged over 1 gram				

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

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Table 9-19
Antenna NB UNII_L

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	2.4 GHz Bluetooth	FHSS	NB UNII_L	N/A	HK5274	76.87	0.09	2402.00	0	1	10.50	10.33	Face-Down	0	V1	0.003	1.040	1.008	0.003	
Head	2.4 GHz Bluetooth	FHSS	NB UNII_L	N/A	9KLWW4	76.87	0.08	2402.00	0	1	10.50	10.11	Face-Down	0	V2	0.003	1.094	1.008	0.003	
Head	2.4 GHz Bluetooth	FHSS	NB UNII_L	N/A	HK5274	76.87	0.02	2441.00	39	1	10.50	10.07	Face-Down	0	V1	0.002	1.104	1.008	0.002	
Head	2.4 GHz Bluetooth	FHSS	NB UNII_L	N/A	HK5274	76.87	0.01	2480.00	78	1	10.50	9.92	Face-Down	0	V1	0.002	1.143	1.008	0.002	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Head							
Spatial Peak													1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population													averaged over 1 gram							

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

9.6 2.4 GHz Bluetooth SISO Standalone Extremity SAR

Table 9-20
Antenna 1

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Point Scheme	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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	2.4 GHz Bluetooth	FHSS	1	N/A	9	YL32W5	76.72	0.02	2402.00	0	1	20.00	19.76	Front	0	V1	1.530	1.057	1.010	1.634	A6
Extremity	2.4 GHz Bluetooth	FHSS	1	N/A	9	KLWW4	76.45	-0.14	2402.00	0	1	20.00	19.69	Front	0	V2	1.390	1.074	1.014	1.513	
Extremity	2.4 GHz Bluetooth	FHSS	1	N/A	9	YL32W5	76.72	0.02	2441.00	39	1	20.00	19.88	Front	0	V1	1.250	1.028	1.010	1.298	
Extremity	2.4 GHz Bluetooth	FHSS	1	N/A	9	YL32W5	76.72	0.06	2480.00	78	1	20.00	19.89	Front	0	V1	0.845	1.026	1.010	0.876	
Extremity	2.4 GHz Bluetooth	FHSS	1	N/A	8	YL32W5	76.72	0.00	2480.00	78	1	20.00	19.89	Front	0	V1	0.812	1.026	1.010	0.842	
Extremity	2.4 GHz Bluetooth	FHSS	1	N/A	32	YL32W5	76.72	-0.05	2480.00	78	1	20.00	19.89	Front	0	V1	0.690	1.026	1.010	0.715	
Extremity	2.4 GHz Bluetooth	FHSS	1	N/A	31	YL32W5	76.72	-0.06	2480.00	78	1	20.00	19.89	Front	0	V1	0.800	1.026	1.010	0.829	
Extremity	2.4 GHz Bluetooth	FHSS	1	N/A	10	YL32W5	76.72	-0.04	2480.00	78	1	20.00	19.89	Front	0	V1	0.792	1.026	1.010	0.821	
Extremity	2.4 GHz Bluetooth	FHSS	1	N/A	9	YL32W5	76.72	-0.11	2480.00	78	1	16.50	16.10	Front	0	V1	0.622	1.096	1.010	0.689	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Extremity								
Spatial Peak													4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population													averaged over 10 grams								

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

Table 9-21
Antenna 2

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Point Scheme	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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	2.4 GHz Bluetooth	FHSS	2	N/A	3	YL32W5	76.49	-0.03	2480.00	78	1	20.00	18.75	Front	0	V1	0.934	1.334	1.013	1.262	
Extremity	2.4 GHz Bluetooth	FHSS	2	N/A	2	YL32W5	76.49	-0.02	2402.00	0	1	20.00	18.58	Front	0	V1	1.010	1.387	1.013	1.419	
Extremity	2.4 GHz Bluetooth	FHSS	2	N/A	2	YL32W5	76.49	0.00	2441.00	39	1	20.00	18.63	Front	0	V1	1.080	1.371	1.013	1.500	
Extremity	2.4 GHz Bluetooth	FHSS	2	N/A	2	KLWW4	76.54	0.06	2441.00	39	1	20.00	18.65	Front	0	V2	1.080	1.365	1.013	1.493	
Extremity	2.4 GHz Bluetooth	FHSS	2	N/A	2	YL32W5	76.49	-0.03	2480.00	78	1	20.00	18.75	Front	0	V1	0.948	1.334	1.013	1.281	
Extremity	2.4 GHz Bluetooth	FHSS	2	N/A	11	YL32W5	76.49	0.17	2480.00	78	1	20.00	18.75	Front	0	V1	0.820	1.334	1.013	1.108	
Extremity	2.4 GHz Bluetooth	FHSS	2	N/A	10	YL32W5	76.49	-0.16	2480.00	78	1	20.00	18.75	Front	0	V1	0.694	1.334	1.013	0.938	
Extremity	2.4 GHz Bluetooth	FHSS	2	N/A	1	YL32W5	76.49	0.00	2480.00	78	1	20.00	18.75	Front	0	V1	0.874	1.334	1.013	1.181	
Extremity	2.4 GHz Bluetooth	FHSS	2	N/A	2	YL32W5	76.49	-0.05	2480.00	78	1	18.00	17.50	Front	0	V1	0.685	1.122	1.013	0.779	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Extremity								
Spatial Peak													4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population													averaged over 10 grams								

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

Table 9-22
Antenna NB UNII_L

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Point Scheme	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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	2.4 GHz Bluetooth	FHSS	NB UNII-L	N/A	7	YL32W5	76.87	-0.08	2402.00	0	1	10.50	10.33	Front	0	V1	0.106	1.040	1.008	0.111	
Extremity	2.4 GHz Bluetooth	FHSS	NB UNII-L	N/A	13	YL32W5	76.87	-0.03	2402.00	0	1	10.50	10.33	Front	0	V1	0.114	1.040	1.008	0.120	
Extremity	2.4 GHz Bluetooth	FHSS	NB UNII-L	N/A	11	YL32W5	76.87	-0.05	2402.00	0	1	10.50	10.33	Front	0	V1	0.126	1.040	1.008	0.132	
Extremity	2.4 GHz Bluetooth	FHSS	NB UNII-L	N/A	10	YL32W5	76.87	0.03	2402.00	0	1	10.50	10.33	Front	0	V1	0.134	1.040	1.008	0.141	
Extremity	2.4 GHz Bluetooth	FHSS	NB UNII-L	N/A	10	9KLWW4	76.87	-0.05	2402.00	0	1	10.50	10.11	Front	0	V2	0.121	1.094	1.008	0.133	
Extremity	2.4 GHz Bluetooth	FHSS	NB UNII-L	N/A	10	YL32W5	76.87	-0.11	2441.00	39	1	10.50	10.07	Front	0	V1	0.108	1.104	1.008	0.120	
Extremity	2.4 GHz Bluetooth	FHSS	NB UNII-L	N/A	10	YL32W5	76.87	-0.06	2480.00	78	1	10.50	9.92	Front	0	V1	0.098	1.143	1.008	0.113	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Extremity								
Spatial Peak													4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population													averaged over 10 grams								

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

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9.7 5 GHz NB U-NII SISO Standalone Head SAR

Table 9-23
NB U-NII 1 Antenna NB UNII_R

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	NB U-NII 1	FHSS	NB UNII_R	N/A	9KLWW4	100.00	0.06	5157.00	Low	1	5.50	4.83	Face-Down	0	V2	0.027	1.167	1.000	0.032	
Head	NB U-NII 1	FHSS	NB UNII_R	N/A	HXS2T4	100.00	0.07	5157.00	Low	1	5.50	4.81	Face-Down	0	V1	0.025	1.172	1.000	0.029	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-24
NB U-NII 3 Antenna NB UNII_R

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	NB U-NII 3	FHSS	NB UNII_R	N/A	HXS2T4	100.00	0.03	5731.00	Low	1	5.50	4.50	Face-Down	0	V1	0.039	1.259	1.000	0.049	
Head	NB U-NII 3	FHSS	NB UNII_R	N/A	9KLWW4	100.00	0.07	5731.00	Low	1	5.50	4.93	Face-Down	0	V2	0.042	1.140	1.000	0.048	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-25
NB U-NII 1 Antenna NB UNII_L

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	NB U-NII 1	FHSS	NB UNII_L	Main Light Seal	9KLWW4	100.00	-0.04	5201.00	Mid	1	5.50	4.79	Face-Down	0	V2	0.023	1.178	1.000	0.027	
Head	NB U-NII 1	FHSS	NB UNII_L	Mini Light Seal	9KLWW4	100.00	0.00	5201.00	Mid	1	5.50	4.79	Face-Down	0	V2	0.027	1.178	1.000	0.032	
Head	NB U-NII 1	FHSS	NB UNII_L	N/A	9KLWW4	100.00	-0.00	5201.00	Mid	1	5.50	4.79	Face-Down	0	V2	0.030	1.178	1.000	0.035	
Head	NB U-NII 1	FHSS	NB UNII_L	N/A	HXS2T4	100.00	0.04	5201.00	Mid	1	5.50	4.94	Face-Down	0	V1	0.025	1.138	1.000	0.028	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-26
NB U-NII 3 Antenna NB UNII_L

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	NB U-NII 3	FHSS	NB UNII_L	Main Light Seal	HXS2T4	100.00	0.03	5731.00	Low	1	5.50	4.90	Face-Down	0	V1	0.021	1.148	1.000	0.024	
Head	NB U-NII 3	FHSS	NB UNII_L	Mini Light Seal	HXS2T4	100.00	0.03	5731.00	Low	1	5.50	4.90	Face-Down	0	V1	0.023	1.148	1.000	0.026	
Head	NB U-NII 3	FHSS	NB UNII_L	N/A	HXS2T4	100.00	0.02	5731.00	Low	1	5.50	4.90	Face-Down	0	V1	0.049	1.148	1.000	0.056	A7
Head	NB U-NII 3	FHSS	NB UNII_L	N/A	9KLWW4	100.00	0.03	5731.00	Low	1	5.50	4.73	Face-Down	0	V2	0.043	1.194	1.000	0.051	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram							

9.8 5 GHz NB U-NII SISO Standalone Extremity SAR

Table 9-27
NB U-NII 1 Antenna NB UNII_R

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Point Scheme	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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	NB U-NII 1	FHSS	NB UNII_R	N/A	26	9KLWW4	100.00	-0.02	5245.00	High	1	5.50	4.86	Front	0	V2	0.054	1.159	1.000	0.063	
Extremity	NB U-NII 1	FHSS	NB UNII_R	N/A	25	9KLWW4	100.00	0.01	5245.00	High	1	5.50	4.86	Front	0	V2	0.061	1.159	1.000	0.071	
Extremity	NB U-NII 1	FHSS	NB UNII_R	N/A	23	9KLWW4	100.00	0.00	5245.00	High	1	5.50	4.86	Front	0	V2	0.056	1.159	1.000	0.065	
Extremity	NB U-NII 1	FHSS	NB UNII_R	N/A	22	9KLWW4	100.00	-0.03	5245.00	High	1	5.50	4.86	Front	0	V2	0.063	1.159	1.000	0.073	
Extremity	NB U-NII 1	FHSS	NB UNII_R	N/A	22	YL32WS	100.00	-0.02	5157.00	Low	1	5.50	4.81	Front	0	V1	0.059	1.172	1.000	0.069	
Extremity	NB U-NII 1	FHSS	NB UNII_R	N/A	22	9KLWW4	100.00	0.05	5157.00	Low	1	5.50	4.83	Front	0	V2	0.073	1.167	1.000	0.085	A8
Extremity	NB U-NII 1	FHSS	NB UNII_R	N/A	22	9KLWW4	100.00	0.00	5201.00	Mid	1	5.50	4.79	Front	0	V2	0.056	1.178	1.000	0.066	
Extremity	NB U-NII 1	FHSS	NB UNII_R	N/A	19	9KLWW4	100.00	-0.03	5245.00	High	1	5.50	4.86	Front	0	V2	0.061	1.159	1.000	0.071	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Extremity								
Spatial Peak													4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population													averaged over 10 grams								

FCC ID: BCGA3416	RF EXPOSURE REPORT	Approved by: Technical Manager
DUT Type: Head Mounted Device		Page 58 of 71

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Table 9-28
NB U-NII 3 Antenna NB UNII R

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Point Scheme	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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	NB U-NII 3	FHSS	NB UNII_R	N/A	28	9KLWW4	100.00	0.00	5731.00	Low	1	5.50	4.93	Front	0	V2	0.056	1.140	1.000	0.064	
Extremity	NB U-NII 3	FHSS	NB UNII_R	N/A	26	9KLWW4	100.00	0.01	5731.00	Low	1	5.50	4.93	Front	0	V2	0.051	1.140	1.000	0.058	
Extremity	NB U-NII 3	FHSS	NB UNII_R	N/A	25	9KLWW4	100.00	-0.04	5844.00	High	1	5.50	3.99	Front	0	V2	0.039	1.435	1.000	0.055	
Extremity	NB U-NII 3	FHSS	NB UNII_R	N/A	25	9KLWW4	100.00	0.03	5731.00	Low	1	5.50	4.93	Front	0	V2	0.060	1.140	1.000	0.068	
Extremity	NB U-NII 3	FHSS	NB UNII_R	N/A	25	HXS2T4	100.00	0.00	5731.00	Low	1	5.50	4.50	Front	0	V1	0.056	1.297	1.000	0.073	
Extremity	NB U-NII 3	FHSS	NB UNII_R	N/A	25	9KLWW4	100.00	-0.03	5788.00	Mid	1	5.50	4.76	Front	0	V2	0.050	1.186	1.000	0.059	
Extremity	NB U-NII 3	FHSS	NB UNII_R	N/A	23	9KLWW4	100.00	0.01	5731.00	Low	1	5.50	4.93	Front	0	V2	0.048	1.140	1.000	0.055	
Extremity	NB U-NII 3	FHSS	NB UNII_R	N/A	22	9KLWW4	100.00	0.02	5731.00	Low	1	5.50	4.93	Front	0	V2	0.052	1.140	1.000	0.059	
Extremity	NB U-NII 3	FHSS	NB UNII_R	N/A	19	9KLWW4	100.00	-0.02	5731.00	Low	1	5.50	4.93	Front	0	V2	0.047	1.140	1.000	0.054	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

Table 9-29
NB U-NII 1 Antenna NB UNII L

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Point Scheme	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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	NB U-NII 1	FHSS	NB UNII_L	N/A	7	9KLWW4	100.00	-0.02	5157.00	Low	1	5.50	4.95	Front	0	V2	0.037	1.135	1.000	0.042	
Extremity	NB U-NII 1	FHSS	NB UNII_L	N/A	13	9KLWW4	100.00	-0.03	5157.00	Low	1	5.50	4.95	Front	0	V2	0.039	1.135	1.000	0.044	
Extremity	NB U-NII 1	FHSS	NB UNII_L	N/A	11	9KLWW4	100.00	0.07	5157.00	Low	1	5.50	4.95	Front	0	V2	0.037	1.135	1.000	0.042	
Extremity	NB U-NII 1	FHSS	NB UNII_L	N/A	10	9KLWW4	100.00	0.00	5245.00	High	1	5.50	4.86	Front	0	V2	0.037	1.159	1.000	0.043	
Extremity	NB U-NII 1	FHSS	NB UNII_L	N/A	10	YL32W5	100.00	0.01	5157.00	Low	1	5.50	4.90	Front	0	V1	0.040	1.148	1.000	0.046	
Extremity	NB U-NII 1	FHSS	NB UNII_L	N/A	10	9KLWW4	100.00	0.02	5157.00	Low	1	5.50	4.95	Front	0	V2	0.048	1.135	1.000	0.054	
Extremity	NB U-NII 1	FHSS	NB UNII_L	N/A	10	9KLWW4	100.00	-0.04	5201.00	Mid	1	5.50	4.79	Front	0	V2	0.033	1.178	1.000	0.039	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

Table 9-30
NB U-NII 3 Antenna NB UNII L

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Point Scheme	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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	NB U-NII 3	FHSS	NB UNII_L	N/A	7	9KLWW4	100.00	0.01	5788.00	Mid	1	5.50	4.74	Front	0	V2	0.056	1.191	1.000	0.067	
Extremity	NB U-NII 3	FHSS	NB UNII_L	N/A	13	9KLWW4	100.00	0.08	5788.00	Mid	1	5.50	4.74	Front	0	V2	0.054	1.191	1.000	0.064	
Extremity	NB U-NII 3	FHSS	NB UNII_L	N/A	11	9KLWW4	100.00	0.03	5788.00	Mid	1	5.50	4.74	Front	0	V2	0.046	1.191	1.000	0.055	
Extremity	NB U-NII 3	FHSS	NB UNII_L	N/A	10	9KLWW4	100.00	-0.03	5844.00	High	1	5.50	4.68	Front	0	V2	0.048	1.298	1.000	0.068	
Extremity	NB U-NII 3	FHSS	NB UNII_L	N/A	10	9KLWW4	100.00	0.04	5731.00	Low	1	5.50	4.73	Front	0	V2	0.050	1.194	1.000	0.060	
Extremity	NB U-NII 3	FHSS	NB UNII_L	N/A	10	9KLWW4	100.00	0.02	5788.00	Mid	1	5.50	4.74	Front	0	V2	0.056	1.191	1.000	0.067	
Extremity	NB U-NII 3	FHSS	NB UNII_L	N/A	10	HXS2T4	100.00	-0.02	5788.00	Mid	1	5.50	4.96	Front	0	V1	0.063	1.132	1.000	0.071	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

9.9 6 GHz NB U-NII SISO Standalone Head SAR and APD

Table 9-31
NB U-NII 5 Antenna NB UNII R

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	NB U-NII 5	HDR	NB UNII_R	Main Light Seal	9KLWW4	100.00	-0.19	6342.00	Mid-High	8	-4.00	-5.13	Face-Down	0	V2	0.043	1.297	1.000	0.056	
Head	NB U-NII 5	HDR	NB UNII_R	Mini Light Seal	9KLWW4	100.00	0.03	6342.00	Mid-High	8	-4.00	-5.13	Face-Down	0	V2	0.061	1.297	1.000	0.079	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	9KLWW4	100.00	0.07	6420.00	High	8	-4.00	-5.30	Face-Down	0	V2	0.031	1.349	1.000	0.042	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	9KLWW4	100.00	0.07	6108.00	Low	8	-4.00	-5.24	Face-Down	0	V2	0.031	1.330	1.000	0.041	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	9KLWW4	100.00	0.01	6186.00	Low-Mid	8	-4.00	-5.17	Face-Down	0	V2	0.053	1.309	1.000	0.069	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	9KLWW4	100.00	0.06	6264.00	Mid	8	-4.00	-5.24	Face-Down	0	V2	0.026	1.330	1.000	0.035	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	HXS2T4	100.00	0.08	6342.00	Mid-High	8	-4.00	-5.18	Face-Down	0	V1	0.064	1.312	1.000	0.084	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	9KLWW4	100.00	0.02	6342.00	Mid-High	8	-4.00	-5.13	Face-Down	0	V2	0.066	1.297	1.000	0.086	A9
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				
Spatial Peak																				
Uncontrolled Exposure/General Population																				
Head 1.6 W/kg (mW/g) averaged over 1 gram																				
Exposure	Band / Mode	Service / Modulation	Ant.	Cover	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)]	
Head	NB U-NII 5	HDR	NB UNII_R	Main Light Seal	9KLWW4	100	-0.19	6342.00	Mid-High	8	-4.00	-5.13	Face-Down	0	V2	0.532	1.297	1.000	0.690	
Head	NB U-NII 5	HDR	NB UNII_R	Mini Light Seal	9KLWW4	100	0.03	6342.00	Mid-High	8	-4.00	-5.13	Face-Down	0	V2	0.805	1.297	1.000	1.044	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	9KLWW4	100	0.07	6420.00	High	8	-4.00	-5.30	Face-Down	0	V2	0.375	1.349	1.000	0.506	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	9KLWW4	100	0.07	6108.00	Low	8	-4.00	-5.24	Face-Down	0	V2	0.270	1.330	1.000	0.359	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	9KLWW4	100	0.01	6186.00	Low-Mid	8	-4.00	-5.17	Face-Down	0	V2	0.684	1.309	1.000	0.895	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	9KLWW4	100	0.06	6264.00	Mid	8	-4.00	-5.24	Face-Down	0	V2	0.190	1.330	1.000	0.253	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	HXS2T4	100	0.08	6342.00	Mid-High	8	-4.00	-5.18	Face-Down	0	V1	0.779	1.312	1.000	1.022	
Head	NB U-NII 5	HDR	NB UNII_R	N/A	9KLWW4	100	0.02	6342.00	Mid-High	8	-4.00	-5.13	Face-Down	0	V2	0.791	1.297	1.000	1.026	

FCC ID: BCGA3416

RF EXPOSURE REPORT

Approved by:

Technical Manager

DUT Type:

Head Mounted Device

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Table 9-32
NB U-NII 5 Antenna NB UNII_L

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	NB U-NII 5	HDR	NB UNII_L	N/A	HX5274	100.00	0.02	6420.00	High	8	-4.00	-5.11	Face-Down	0	V1	0.031	1.291	1.000	0.040	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	HX5274	100.00	0.01	6108.00	Low	8	-4.00	-5.25	Face-Down	0	V1	0.030	1.334	1.000	0.040	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	HX5274	100.00	0.08	6186.00	Low-Mid	8	-4.00	-5.02	Face-Down	0	V1	0.037	1.265	1.000	0.034	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	KLWW4	100.00	0.09	6264.00	Mid	8	-4.00	-5.42	Face-Down	0	V2	0.026	1.387	1.000	0.036	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	HX5274	100.00	0.02	6264.00	Mid	8	-4.00	-5.03	Face-Down	0	V1	0.035	1.268	1.000	0.044	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	HX5274	100.00	-0.16	6342.00	Mid-High	8	-4.00	-5.33	Face-Down	0	V1	0.031	1.358	1.000	0.042	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) averaged over 1 gram
Exposure	Band/ Mode	Service/ Modulation	Ant.	Cover	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)]	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	HX5274	100	0.02	6420.00	High	8	-4.00	-5.11	Face-Down	0	V1	0.287	1.291	1.000	0.371	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	HX5274	100	0.01	6108.00	Low	8	-4.00	-5.25	Face-Down	0	V1	0.289	1.334	1.000	0.386	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	HX5274	100	0.08	6186.00	Low-Mid	8	-4.00	-5.02	Face-Down	0	V1	0.287	1.265	1.000	0.312	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	KLWW4	100	0.09	6264.00	Mid	8	-4.00	-5.42	Face-Down	0	V2	0.266	1.387	1.000	0.369	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	HX5274	100	0.02	6264.00	Mid	8	-4.00	-5.03	Face-Down	0	V1	0.269	1.268	1.000	0.341	
Head	NB U-NII 5	HDR	NB UNII_L	N/A	HX5274	100	-0.16	6342.00	Mid-High	8	-4.00	-5.33	Face-Down	0	V1	0.198	1.358	1.000	0.269	

9.10 6 GHz NB U-NII SISO Standalone Extremity SAR and APD

Table 9-33
NB U-NII 5 Antenna NB UNII_R

Extremity																					
Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Point Scheme	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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	28	HX5274	100.00	0.02	6186.00	Low-Mid	8	-4.00	-5.16	Front	0	V1	0.034	1.306	1.000	0.044	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	26	HX5274	100.00	0.06	6186.00	Low-Mid	8	-4.00	-5.16	Front	0	V1	0.028	1.306	1.000	0.037	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	HX5274	100.00	0.08	6420.00	High	8	-4.00	-5.26	Front	0	V1	0.010	1.337	1.000	0.013	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	9KLWW4	100.00	0.02	6108.00	Low	8	-4.00	-5.24	Front	0	V2	0.042	1.330	1.000	0.056	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	HX5274	100.00	0.09	6108.00	Low	8	-4.00	-5.62	Front	0	V1	0.043	1.452	1.000	0.062	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	HX5274	100.00	0.08	6186.00	Low-Mid	8	-4.00	-5.16	Front	0	V1	0.035	1.296	1.000	0.046	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	HX5274	100.00	0.02	6264.00	Mid	8	-4.00	-5.23	Front	0	V1	0.018	1.327	1.000	0.024	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	HX5274	100.00	0.08	6342.00	Mid-High	8	-4.00	-5.18	Front	0	V1	0.012	1.312	1.000	0.016	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	22	HX5274	100.00	0.09	6186.00	Low-Mid	8	-4.00	-5.16	Front	0	V1	0.014	1.306	1.000	0.044	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak													4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population													averaged over 10 grams								
Exposure	Band/ Mode	Service/ Modulation	Ant.	Cover	Point Scheme	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)]	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	28	HX5274	100	0.02	6186.00	Low-Mid	8	-4.00	-5.16	Front	0	V1	0.791	1.306	1.000	1.033	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	26	HX5274	100	0.06	6186.00	Low-Mid	8	-4.00	-5.16	Front	0	V1	0.654	1.306	1.000	0.804	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	HX5274	100	0.08	6420.00	High	8	-4.00	-5.26	Front	0	V1	0.227	1.337	1.000	0.303	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	9KLWW4	100	0.02	6108.00	Low	8	-4.00	-5.24	Front	0	V2	0.975	1.450	1.000	1.297	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	HX5274	100	0.09	6108.00	Low	8	-4.00	-5.62	Front	0	V1	1.010	1.452	1.000	1.467	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	HX5274	100	0.04	6186.00	Low-Mid	8	-4.00	-5.16	Front	0	V1	0.819	1.306	1.000	1.070	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	HX5274	100	0.02	6264.00	Mid	8	-4.00	-5.23	Front	0	V1	0.410	1.327	1.000	0.544	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	25	HX5274	100	0.08	6342.00	Mid-High	8	-4.00	-5.18	Front	0	V1	0.277	1.312	1.000	0.363	
Extremity	NB U-NII 5	HDR	NB UNII_R	N/A	22	HX5274	100	0.09	6186.00	Low-Mid	8	-4.00	-5.16	Front	0	V1	0.795	1.306	1.000	1.018	

Table 9-34
NB U-NII 5 Antenna NB UNII_L

Exposure	Band / Mode	Service / Modulation	Ant.	Cover	Point Scheme	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Spacing [mm]	Add'l Info	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	NB U-NII 5	HDR	NB UNII_L	Main Light Seal	10	YL32W5	100	0.01	6420.00	High	8	-4.00	-5.11	0	V1	0.043	1.291	1.000	0.056	
Extremity	NB U-NII 5	HDR	NB UNII_L	Mini Light Seal	10	YL32W5	100	0.09	6420.00	High	8	-4.00	-5.11	0	V1	0.044	1.291	1.000	0.057	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	7	YL32W5	100	0.04	6186.00	Low-Mid	8	-4.00	-5.02	0	V1	0.010	1.265	1.000	0.013	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	13	YL32W5	100	0.01	6186.00	Low-Mid	8	-4.00	-5.02	0	V1	0.014	1.265	1.000	0.018	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	11	YL32W5	100	0.07	6186.00	Low-Mid	8	-4.00	-5.02	0	V1	0.003	1.265	1.000	0.004	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	YL32W5	100	0.06	6420.00	High	8	-4.00	-5.11	0	V1	0.067	1.291	1.000	0.086	A10
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	9KLWW4	100	0.21	6420.00	High	8	-4.00	-5.78	0	V2	0.048	1.507	1.000	0.072	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	YL32W5	100	0.08	6108.00	Low	8	-4.00	-5.25	0	V1	0.012	1.334	1.000	0.016	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	YL32W5	100	0.02	6186.00	Low-Mid	8	-4.00	-5.02	0	V1	0.016	1.265	1.000	0.020	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	YL32W5	100	0.09	6264.00	Mid	8	-4.00	-5.03	0	V1	0.018	1.268	1.000	0.023	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	YL32W5	100	0.02	6342.00	Mid-High	8	-4.00	-5.33	0	V1	0.007	1.358	1.000	0.010	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Spatial Peak Uncontrolled Exposure/General Population							4.0 W/kg (mW/g) averaged over 10 grams
Exposure	Band/ Mode	Service/ Modulation	Ant.	Cover	Point Scheme	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Spacing [mm]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	
Extremity	NB U-NII 5	HDR	NB UNII_L	Main Light Seal	10	YL32W5	100	0.01	6420.00	High	8	-4.00	-5.11	0	V1	1.010	1.291	1.000	1.304	
Extremity	NB U-NII 5	HDR	NB UNII_L	Mini Light Seal	10	YL32W5	100	0.09	6420.00	High	8	-4.00	-5.11	0	V1	1.020	1.291	1.000	1.317	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	7	YL32W5	100	0.04	6186.00	Low-Mid	8	-4.00	-5.02	0	V1	0.233	1.265	1.000	0.295	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	13	YL32W5	100	0.01	6186.00	Low-Mid	8	-4.00	-5.02	0	V1	0.106	1.265	1.000	0.412	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	11	YL32W5	100	0.07	6186.00	Low-Mid	8	-4.00	-5.02	0	V1	0.072	1.265	1.000	0.091	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	YL32W5	100	0.08	6420.00	High	8	-4.00	-5.11	0	V1	1.560	1.291	1.000	2.014	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	9KLWW4	100	0.21	6420.00	High	8	-4.00	-5.78	0	V2	1.130	1.507	1.000	1.703	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	YL32W5	100	0.08	6108.00	Low	8	-4.00	-5.25	0	V1	0.078	1.334	1.000	0.371	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	YL32W5	100	0.02	6186.00	Low-Mid	8	-4.00	-5.02	0	V1	0.358	1.265	1.000	0.453	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	YL32W5	100	0.09	6264.00	Mid	8	-4.00	-5.03	0	V1	0.429	1.268	1.000	0.544	
Extremity	NB U-NII 5	HDR	NB UNII_L	N/A	10	YL32W5	100	0.02	6342.00	Mid-High	8	-4.00	-5.33	0	V1	0.159	1.358	1.000	0.216	

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9.11 SAR Test Notes

General Notes:

1. Batteries are fully charged at the beginning of the SAR measurements.
2. Liquid tissue depth was at least 15.0 cm for all frequencies.
3. 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.
4. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
5. 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 for 1g or 2.0 W/kg for 10g. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 11 for variability analysis.
6. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
7. The phantom is filled with head tissue-equivalent medium.
8. For Head SAR evaluation, SAR testing was performed in a face-down phantom to evaluate all head use case conditions. SAR was evaluated with a separation distance of 0 mm between the device and the eye region of the facedown phantom to mimic expected use conditions.
9. For Extremity SAR evaluation, SAR testing was performed with a separation distance of 0 mm between the device and the flat phantom in several identified locations in the device for each antenna corresponding to the maximum averaged E-field spots based on simulation data.
10. The worst-case SAR configuration per band (e.g. 2400-2483.5 MHz, 5150-5250 MHz etc.) was spot-checked with the light seal which is a foam gasket covered in fabric connected to the head mounted device to ensure a good fit and seal out the ambient light. The smallest ("mini") and largest ("main") light seal available were used for the spot-check.

Bluetooth Notes:

1. The reported Bluetooth SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per manufacturer. See Section 7.2 for the time domain plot and calculation for the duty factor of the device.

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9.12 Power Density Standalone psPD

Table 9-35

MEASUREMENT RESULTS																						
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift (dB)	Spacing (m)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6108.00	Low	NB U-NII 5	HDR	8	-4.00	-5.62	0.12	2	NB U-NII_R	H052T4	8	100	0.25	2.170	1.554	1.452	1.000	0.377	0.851	0.383	0.884	A11
6108.00	Low	NB U-NII 5	HDR	8	-4.00	-5.62	0.09	9.82	NB U-NII_R	H052T4	8	100	0.25	1.330	1.554	1.452	1.000	0.211	0.476	0.215	0.485	
6420.00	High	NB U-NII 5	HDR	8	-4.00	-5.11	0.11	2	NB U-NII_L	YL32W5	8	100	0.25	1.310	1.554	1.291	1.000	0.150	0.301	0.151	0.303	
6420.00	High	NB U-NII 5	HDR	8	-4.00	-5.11	0.11	9.35	NB U-NII_L	YL32W5	8	100	0.25	1.230	1.554	1.291	1.000	0.177	0.355	0.188	0.377	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²												

9.13 Power Density Notes

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact on the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ and $d=\lambda/5\text{mm}$ using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.
7. PTP-PR algorithm was used during psPD measurement and calculations
8. Per KDB 388624 D02, the OVER6G checklist was simplified for the 6-8.5 GHz range by requiring a single power density measurement in correspondence to the largest SAR value that was measured. Therefore, PD testing was evaluated for the worst case cfg. per mode/band and exposure condition from the SAR testing.

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10 SAR MEASUREMENT VARIABILITY

10.1 Measurement Variability

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

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

BODY VARIABILITY RESULTS																	
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Point Scheme	Spacing	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio	
	MHz	Ch.								(W/kg)	(W/kg)		(W/kg)		(W/kg)		
2450	2437	6	2.4 GHz WiFi/IEEE 802.11b	DSSS	Ant 1	1	Front	8.00	0mm	2.450	2.360	1.04	N/A	N/A	N/A	N/A	
5250	5270	54	5 GHz WiFi IEEE 802.11n, 40 MHz Bandwidth	OFDM	Ant 1	13.5	Front	12.00	0 mm	2.750	2.670	1.03	N/A	N/A	N/A	N/A	
5600	5610	122	5 GHz WiFi/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 1	29	Front	12.00	0 mm	2.770	2.750	1.01	N/A	N/A	N/A	N/A	
5750	5795	159	5 GHz WiFi/ IEEE 802.11n, 40 MHz Bandwidth	OFDM	Ant 1	13.5	Front	11.00	0 mm	2.480	2.330	1.06	N/A	N/A	N/A	N/A	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Extremity							
Spatial Peak										4 W/kg (mW/g)							
Uncontrolled Exposure/General Population										averaged over 10 gram							

10.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

SAR Summations for some scenarios when the output power levels are reduced, SAR values at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

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11 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	2/10/2025	Annual	2/10/2026	1351001
Anritsu	ML2495A	Power Meter	2/10/2025	Annual	2/10/2026	1306009
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	5/29/2025	Annual	5/29/2026	1344554
Anritsu	MA24106A	USB Power Sensor	10/29/2024	Annual	10/29/2025	1248508
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	1/10/2025	Biennial	1/10/2026	160574418
Keysight Technologies	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Agilent	N9020A	MXA Signal Analyzer	9/27/2024	Biennial	9/27/2025	MY53280290
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	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	9/10/2024	Annual	9/10/2025	1045
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	10/8/2024	Annual	10/8/2025	1006
SPEAG	D2450V2	2450 MHz SAR Dipole	5/13/2025	Annual	5/13/2026	750
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	855
SPEAG	D5GHzV2	5 GHz SAR Dipole	2/21/2025	Annual	2/21/2026	1163
SPEAG	D5GHzV2	5 GHz SAR Dipole	11/8/2024	Annual	11/8/2025	1066
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	10/10/2024	Annual	10/10/2025	1019
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2025	Annual	4/15/2026	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1408
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7551
SPEAG	EX3DV4	SAR Probe	12/9/2024	Annual	12/9/2025	7490
SPEAG	EUMmWV4	mmWave Probe	4/10/2025	Annual	4/10/2026	9487

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

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12 MEASUREMENT UNCERTAINTIES

Applicable Measurement for the Face-Down Phantom

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component (Specific Phantom)	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	14.0	R	1.73	1.0	1.0	8.1	8.1	∞
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	14.0	13.8
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	27.9	27.6

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

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Applicable for SAR measurements < 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0

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

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Applicable for SAR measurements > 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	13.8	13.6
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	27.6	27.1

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

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Applicable for Power Density measurements:

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

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13 CONCLUSION

13.1 Measurement Conclusion

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

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

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