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SAR EVALUATION REPORT

Applicant Name: Apple Inc. One Apple Park Way Cupertino, CA 95014 USA Date of Testing: 02/03/2023 Test Report Issue Date: 06/06/2023 Test Site/Location: Element Morgan Hill, CA, USA Document Serial No.: 1C2301250005-01.BCG (Rev 1)

FCC ID:

BCGA2924

APPLICANT:

APPLE, INC.

DUT Type: Application Type: FCC Rule Part(s): Model: Wireless Headphones Certification CFR §2.1093 A2924

Equipment	Band & Mode	Tx Frequency	S	AR
Class		in requery	1g Head (W/kg)	10g Extremity (W/kg)
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.17	0.33

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

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.6 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.







Executive Vice President

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
Bluetooth	Data	2402 - 2480 MHz

1.2 Power Reduction for SAR

There is no power reduction used for any band/mode implemented in this device for SAR purposes.

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 D01v06.

Mode / Band	Modulated Average (dBm)	
2.4 GHz Bluetooth BDR	Maximum	14.00
2.4 GHZ BIUELOOLII BDR	Nominal	13.00
2.4 GHz Bluetooth EDR	Maximum	9.00
2.4 GHZ BIUELOOLII EDR	Nominal	8.00
2.4 GHz Bluetooth BLE	Maximum	7.00
	Nominal	6.00

1.3.1 Maximum Output Power

1.4 DUT Antenna Locations

Based on the expected use conditions, Head SAR and Extremity SAR was evaluated. The antenna is located inside the left cushion on the DUT. A diagram showing the location of the antenna can be found in 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

This Device does not support any Simultaneous transmission Scenarios.

1.6 Guidance Applied

- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)

1.7 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 =	<u>d</u> ($\left(\underline{dU} \right)$	\underline{d}	$\left(\underline{dU} \right)$
5AN -	dt	dm^{\prime}	$\frac{1}{dt}$	$\left(\overline{\rho dv} \right)$

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.

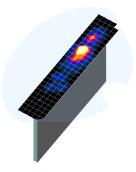


Figure 3-1 Sample SAR Area Scan

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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 ($10 \times 10 \times 10$) were obtained through interpolation, in order to calculate the averaged SAR.

c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

	Maximum Area Scan Resolution (mm)	Maximum Zoom Scan Resolution (mm)	Max	imum Zoom So Resolution (I		Minimum Zoom Scan
Frequency	(Δx _{area} , Δy _{area})	$(\Delta x_{2000}, \Delta y_{2000})$	Uniform Grid	Gi	raded Grid	Volume (mm) (x,y,z)
			∆z _{zoom} (n)	$\Delta z_{zoom}(1)^*$	Δz _{zoom} (n>1)*	
≤2 GHz	≤ 15	≤8	≤5	≤4	≤ 1.5*Δz _{zoom} (n-1)	≥ 30
2-3 GHz	≤12	≤5	≤5	≤4	$\leq 1.5^*\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤12	≤5	≤ 4	≤3	$\leq 1.5^*\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤3	≤2.5	$\leq 1.5^*\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤2	≤2	≤ 1.5*Δz _{zoom} (n-1)	≥ 22

Table 3-1 Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

*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 ϵ = 3 and loss tangent δ = 0.02.

4.2 Positioning for Head

Wireless Headphones are head mounted devices that are designed to be used at the ear but does not protrude into the pinna or the auditory canal. The device is evaluated with the audio-output (cushion side) of the device aligned to the ERP reference point. The device was oriented against the phantom in such a way that mimics expected use conditions. The phantom is filled with head tissue-equivalent medium. Since the device can be used with the radiating element located on the right and left sides of the head, SAR testing was performed for both sides to simulate all potential head use-case conditions.

4.3 Extremity Exposure Conditions

Devices that designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation, Based on the expected use conditions. Extremity SAR was evaluated with the outside (Logo) of the device touching the flat phantom, and the bottom edge touching the flat phantom. 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.

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

Table 5-1 SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

2. The Spatial Average value of the SAR averaged over the whole body.

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

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6 FCC MEASUREMENT PROCEDURES

6.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, 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.

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7 RF CONDUCTED POWERS

7.1 Bluetooth Conducted Powers

Bluetooth Average RF Power										
_		Data		Avg Conducted Power						
Frequency [MHz]	Modulation	Rate [Mbps]	Rate Channel		[mW]					
2402	GFSK	1.0	0	13.07	20.277					
2441	GFSK	1.0	39	13.16	20.701					
2480	GFSK	1.0	78	13.23	21.038					

Table 7-1 Bluetooth Average RF Powe

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Bluetooth Duty Cycle 7.2

7.2.1 **Maximum Bluetooth Transmission**

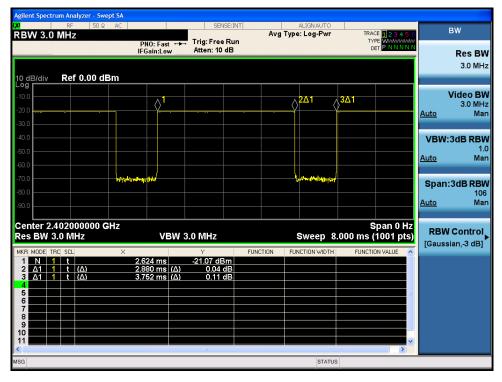


Figure 7-1 2.4 GHz Bluetooth Transmission Plot

Equation 7-1 2.4 GHz Bluetooth Duty Cycle Calculation

$$Duty Cycle = \frac{Pulse Width}{Period} * 100\% = \frac{2.880 ms}{3.752 ms} * 100\% = 76.8\%$$

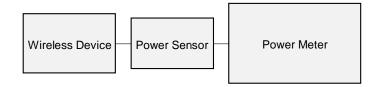


Figure 7-2 **Power Measurement Setup**

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8 SYSTEM VERIFICATION

8.1 **Tissue Verification**

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	
			2300	1.716	40.011	1.670	39.500	2.75%	1.29%	
			2310	1.724	39.998	1.679	39.480	2.68%	1.31%	
			2320	1.731	39.985	1.687	39.460	2.61%	1.33%	
			2400	1.794	39.876	1.756	39.289	2.16%	1.49%	
			2450	1.832	39.792	1.800	39.200	1.78%	1.51%	
			2480	1.858	39.739	1.833	39.162	1.36%	1.47%	
			2500	1.875	39.721	1.855	39.136	1.08%	1.49%	
02/03/2023	2450 Head	19.9	2510	1.883	39.709	1.866	39.123	0.91%	1.50%	
			2535	1.905	39.669	1.893	39.092	0.63%	1.48%	
			2550	1.917	39.630	1.909	39.073	0.42%	1.43%	
			2560	1.925	39.607	1.920	39.060	0.26%	1.40%	
			2600	1.961	39.549	1.964	39.009	-0.15%	1.38%	
			2650	2.003	39.455	2.018	38.945	-0.74%	1.31%	
			2680	2.029	39.393	2.051	38.907	-1.07%	1.25%	
		1	2700	2.046	39.361	2.073	38.882	-1.30%	1.23%	

Table 8-1 Measured Head Tissue Properties

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 8-2 System Verification Results – 1g											
	System Verification TARGET & MEASURED											
SAR Systen	Frequency	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR1g (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR1g (W/kg)	Deviation _{1g} (%)
AM1	2450	HEAD	02/03/2023	20.5	20.8	0.100	750	7420	5.520	52.600	55.200	4.94%

Table 8-3System 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	Measured SAR1g (W/kg)	1 W Target SAR ^{10 g} (W/kg)	1 W Normalized SAR10g (W/kg)	Deviation _{1g} (%)
AM1	2450	HEAD	02/03/2023	20.5	20.8	0.100	750	7420	2.550	24.500	25.500	4.08%

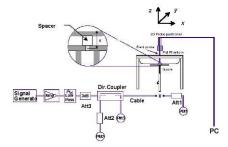


Figure 8-1 System Verification Setup Diagram



Figure 8-2 System Verification Setup Photo

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9 SAR DATA SUMMARY

9.1 Standalone Head SAR Data

Table 9-1 Bluetooth Head SAR

							ME	ASUREMENT	RESULT	s						
FREQU	ENCY		Service	Maximum Allowed	Conducted	Power	Spacing	Device Serial	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	Mode	Service	Power [dBm]	Power [dBm]	Drift [dB]	spacing	Number	(Mbps)	Side	(%)	(W/kg)	(Cond Power)	(Duty Cycle)	(W/kg)	Plot #
2480	78	Bluetooth	FHSS	14.00	13.23	0.02	0 mm	GD7K10GR266W	1	Right Head	76.8	0.083	1.194	1.009	0.100	
2402	0	Bluetooth	FHSS	14.00	13.07	0.08	0 mm	GD7K10GR266W	1	Left Head	76.8	0.110	1.239	1.009	0.138	
2441	39	Bluetooth	FHSS	14.00	13.16	0.01	0 mm	GD7K10GR266W	1	Left Head	76.8	0.134	1.213	1.009	0.164	
2480	78	Bluetooth	FHSS	14.00	13.23	-0.02	0 mm	GD7K10GR266W	1	Left Head	76.8	0.137	1.194	1.009	0.165	A1
		ANSI	/ IEEE C95.1 19	992 - SAFETY LIMIT	r		Head									
	Spatial Peak					1.6 W/kg (mW/g)										
		Uncontro	olled Exposure	e/General Populat	ion						avera	ged 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 the manufacturer.

Table 9-2

9.2 Standalone Extremity SAR Data

	Bluetooth Extremity SAR															
	MEASUREMENT RESULTS															
FREQU	JENCY			Maximum Allowed	Conducted	Power		Device Serial	Data Rate	Side	Duty Cycle	SAR (10g)	Scaling Factor	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.	Mode	Service	Power [dBm]	Power [dBm]	Drift [dB]	Spacing	Number	(Mbps)	Side	(%)	(W/kg)	(Cond Power)		(W/kg)	Plot #
2402	0	Bluetooth	FHSS	14.00	13.07	0.00	0 mm	GD7K10GR266W	1	Logo	76.8	0.239	1.239	1.009	0.299	
2441	39	Bluetooth	FHSS	14.00	13.16	0.00	0 mm	GD7K10GR266W	1	Logo	76.8	0.266	1.213	1.009	0.326	
2480	78	Bluetooth	FHSS	14.00	13.23	-0.04	0 mm	GD7K2015266W	1	Logo	76.8	0.273	1.194	1.009	0.329	A2
2480	78	Bluetooth	FHSS	14.00	13.23	-0.12	0 mm	GD7K10GR266W	1	Bottom Edge	76.8	0.015	1.194	1.009	0.018	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Extremity					
Spatial Peak						4.0 W/kg (mW/g)										
Uncontrolled Exposure/General Population									avera	ged over 10 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 the manufacturer.

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9.3 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 D01v06.
- 5. Per FCC KDB 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg. Please see section 10 for variability analysis.
- 6. The orange highlights throughout the report represents the highest scaled SAR per Equipment Class.
- 7. For Head SAR evaluation, the DUT's audio-output (cushion side) was aligned to the ERP reference point.
- 8. For Extremity SAR evaluation, the DUT's outer edge (Logo) was positioned at 0 mm from the phantom.
- 9. Extremity SAR evaluation, was additionally tested with the bottom edge touching the phantom at 0 mm. Additional test setup and positioning information can be found in Section 4.2 and Section 4.3.

Bluetooth Notes

U fr 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 the manufacturer. See Section 7.2 for the time domain plot and calculation for the duty factor of the device.

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10 SAR MEASUREMENT VARIABILITY

10.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01, SAR measurement variability was not assessed for each frequency band since all measured SAR measured values are <0.8 W/Kg for 1g SAR and <2.0 W/kg for 10g SAR.

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.

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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	11/17/2022	Annual	11/17/2023	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	3/24/2022	Annual	3/24/2023	MY45093678
Agilent	N5182A	MXG Vector Signal Generator	11/17/2022	Annual	11/17/2023	US46240505
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/14/2022	Annual	6/14/2023	US39170118
Agilent	E5515C	Wireless Communications Test Set	5/4/2021	Biennial	5/4/2023	GB41450275
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	ML2496A	Power Meter	3/31/2022	Annual	3/31/2023	1138001
Anritsu	ML2496A	Power Meter	3/29/2022	Annual	3/29/2023	1306009
Anritsu	ML2496A	Power Meter	2/11/2022	Annual	2/11/2023	1405003
Anritsu	ML2496A	Power Meter	8/16/2022	Annual	8/16/2023	1351001
Anritsu	MA2411B	Pulse Power Sensor	3/28/2022	Annual	3/28/2023	1339007
Anritsu	MA2411B	Pulse Power Sensor	3/2/2022	Annual	3/2/2023	1126066
Anritsu	MA24106A	USB Power Sensor	3/28/2022	Annual	3/28/2023	1520503
Anritsu	MA24106A	USB Power Sensor	3/28/2022	Annual	3/28/2023	1520501
Control Company	4040	Therm./ Clock/ Humidity Monitor	1/21/2022	Annual	1/21/2023	160574418
Mitutoyo	500-196-30	CD-6"ASX 6Inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N9020A	MXA Signal Analyzer	3/4/2022	Annual	3/4/2023	US46470561
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/5/2022	Annual	7/5/2023	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	TSF-100	Torque Wrench	7/11/2022	Annual	7/11/2023	47639-29
SPEAG	DAK-3.5	Dielectric Assessment Kit	10/17/2022	Annual	10/17/2023	1091
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Annual	5/11/2023	750
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/13/2022	Annual	10/13/2023	1333
SPEAG	EX3DV4	SAR Probe	10/20/2022	Annual	10/20/2023	7420

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.

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12 MEASUREMENT UNCERTAINTIES

	1 1		-			-			
а	b	С	d	e=	f	g	h =	i =	k
				f(d,k)			c x f/e	c x g/e	
	IEEE	Tol.	Prob.		Ci	Ci	1gm	10gms	
Uncertainty Component	1528 Sec.	(± %)	Dist.	Div.	1gm	10 gms	ui	ui	vi
							(± %)	(± %)	
Measurement System									
Probe Calibration	E.2.1	9.3	Ν	1	1	1	9.3	9.3	~~
Axial Isotropy	E.2.2	0.25	Ν	1	0.7	0.7	0.2	0.2	8
Hemishperical lsotropy	E.2.2	1.3	Ν	1	0.7	0.7	0.9	0.9	8
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	~
Linearity	E.2.4	0.3	Ν	1	1	1	0.3	0.3	~
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	80
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	Ν	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	Ν	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	Ν	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	~~
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	80
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	Ν	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	Ν	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	~0
Liquid Permittivity - Temperature Unceritainty	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	00
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	1		1	13.8	13.6	191
Expanded Uncertainty			k=2				27.6	27.1	
(95% CONFIDENCE LEVEL)									

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

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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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