

RF Exposure report



The following samples were submitted and identified on behalf of the client as:

Product Name	MOMENTUM True Wireless 5 (MTW5)
Brand Name	SENNHEISER
Model No.	MTW5 (Refer to Item 1.2 Note for details)
Applicant	Sonova Consumer Hearing GmbH Im Heidkampe 9, 30659 Hannover, Germany
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	2A3ULMTW5
Date of EUT Receipt	Jan. 05, 2026
Date of Test(s)	Jan. 20, 2026
Date of Issue	Mar. 05, 2026

Approved By /

John Teh

John Yeh

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2601000036E5	00	Initial creation of document	Mar. 05, 2026	Cindy Chou	

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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1 GENERAL INFORMATION

1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB 447498D01v06

KDB 865664D01v01r04

KDB 865664D02v01r02

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1.2 Description of EUT

Test Item Description	True Wireless earphones
Product Name	MOMENTUM True Wireless 5 (MTW5)
Brand Name	SENNHEISER
Serial Number / Status of EUT	Engineering sample
Model No.	MTW5 (Refer to Item 1.2 Note for details)
Hardware Version	Earbuds: V 6 Charging case: V 6
Firmware Version	Earbuds: V 8.4.4 Charging case: V 1.2.1
Operating Temperature range	0°C - +40°C
Power Ratings	Earbuds: 3.8Vdc 72mAh or 3.85Vdc, 87mAh (Lithium button cell) Charging case: 5Vdc, 1000 mA (from Type-C USB interface) 3.7Vdc, 760mAh (from battery)
Power Supply (Nominal & Testing)	Earbuds: 3.8 ~ 3.85 Vdc (from battery) Charging case: 5Vdc (from Type-C USB interface) 3.7Vdc (from battery)
Cable supplied / Device ports	0.4m shielded USB C-C cable without core (Model: 585875)
Technology	Bluetooth
Operating Frequency	BDR & EDR: 2402 - 2480MHz BLE 1M: 2402 - 2480MHz BLE 2M: 2404 - 2478MHz (excluding 2426MHz) QHS: 2404 - 2478MHz (for Frequency Band: 2400-2483.5MHz)
Modulation type	BDR & EDR: GFSK, $\pi/4$ DQPSK, 8DPSK BLE 1M/2M: GFSK QHS: $\pi/4$ QPSK (HSL2, HSL3), $\pi/4$ DQPSK (HSL4), 8PSK (HSL5), D8PSK (HSL6)
Transmission Technology	BDR & EDR: FHSS BLE 1M/2M and QHS: DSSS

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No. of channels	BDR & EDR: 79 BLE 1M: 40 BLE 2M: 37 QHS: 38	
Channel Spacing	BDR & EDR: 1MHz BLE 1M/2M: 2MHz QHS: 2MHz	
Channel Bandwidth	BDR & EDR: 79MHz, BLE 1M: 80MHz BLE 2M: 74MHz QHS: 76MHz	
Data Transfer Rate	BDR: 1Mbps , EDR: 2Mbps/3Mbps BLE 4.0: 1Mbps , BLE 6.0: 2Mbps QHS: $\pi/4$ QPSK (HSL2 - 2Mbps, HSL3 - 3Mbps), $\pi/4$ DQPSK (HSL4 - 4Mbps), 8PSK (HSL5 - 5Mbps), D8PSK (HSL6 - 6Mbps) (Representative Rate: 6Mbps)	
Duty Cycle	Bluetooth	Please refer to section 3
Supported radios (TX Frequency Range, MHz)	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

Note: The EUT system MOMENTUM True Wireless 5 (MTW5) contain the following devices:

Item	Brand Name	Device Model No.
Right Earbud	SENNHEISER	MTW5 R
Left Earbud	SENNHEISER	MTW5 L
Charging Case	SENNHEISER	MTW5 C

* MTW5 R and MTW5 L with BT & BT LE TX/RX function

* Charging case is solely used for charging MTW5 R and MTW5 L only.

1.3 Maximum value

Summary of Maximum SAR Value	
Mode	Highest SAR 1g (W/kg)
Bluetooth($\pi/4$ DQPSK)	0.36

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1.4 Antenna Information

Left earbud

Efficiency:

L			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Max gain:
2400	14.7%	-8.3	-4.5dBi
2410	15.6%	-8.1	
2420	16.1%	-7.9	
2430	16.3%	-7.9	
2440	16.1%	-7.9	
2450	15.8%	-8.0	
2460	15.4%	-8.1	
2470	14.9%	-8.3	
2480	14.7%	-8.3	
Average value	15.5%	-8.1	

Right earbud

Efficiency:

R			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Max gain:
2400	14.0%	-8.5	-5.0dBi
2410	14.5%	-8.4	
2420	15.2%	-8.2	
2430	15.7%	-8.0	
2440	15.7%	-8.0	
2450	15.7%	-8.0	
2460	16.1%	-7.9	
2470	15.8%	-8.0	
2480	15.0%	-8.2	
Average value	15.3%	-8.2	

Note: Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	Test Engineer	Project Engineer	FCC Designation number/ Registration Number	IC CAB identifier/ Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, NeiHu District, Taipei City, 11493, Taiwan	SAR 2	-	-	TW0029/ 150169	TW3702/ 23862
		SAR 6	-	-		
		SAR 8	-	-		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	Stella Chang	Bond Tsai	TW0028/ 200037	TW3702/ 4620E
		SAR 4	-	-		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	-	-	TW0027/ 891563	TW3702/ 4620A
		SAR 7	-	-		

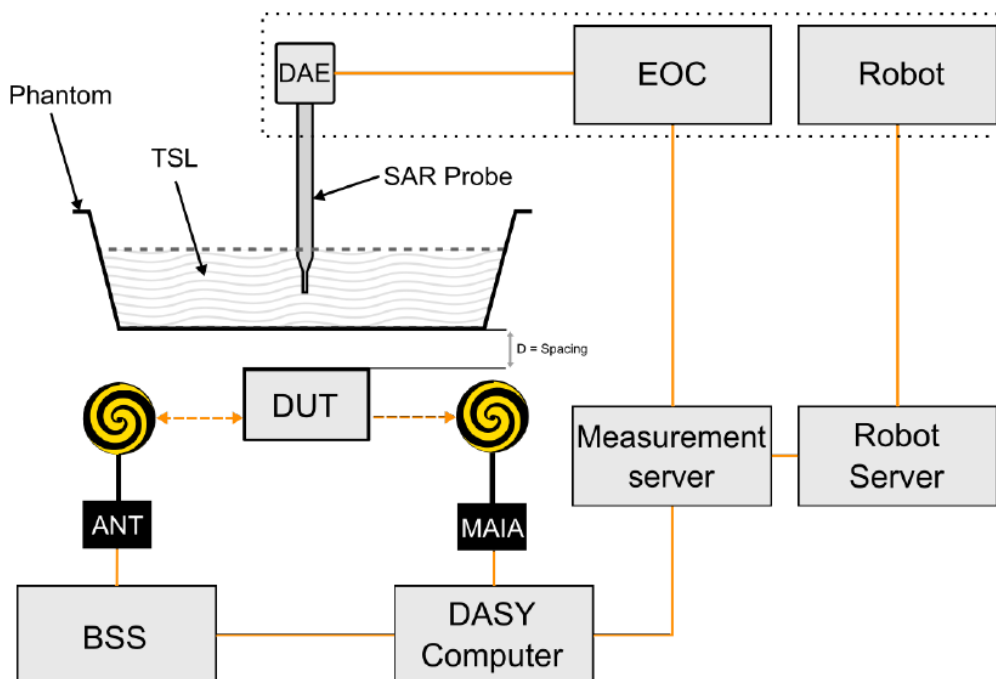
Note: Test site name is remarked on a bolded mark as an indication where measurements occurred in specific test site and address.

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Block Diagram (DASY8)

The DASY system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Windows and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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PHANTOM (ELI)

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

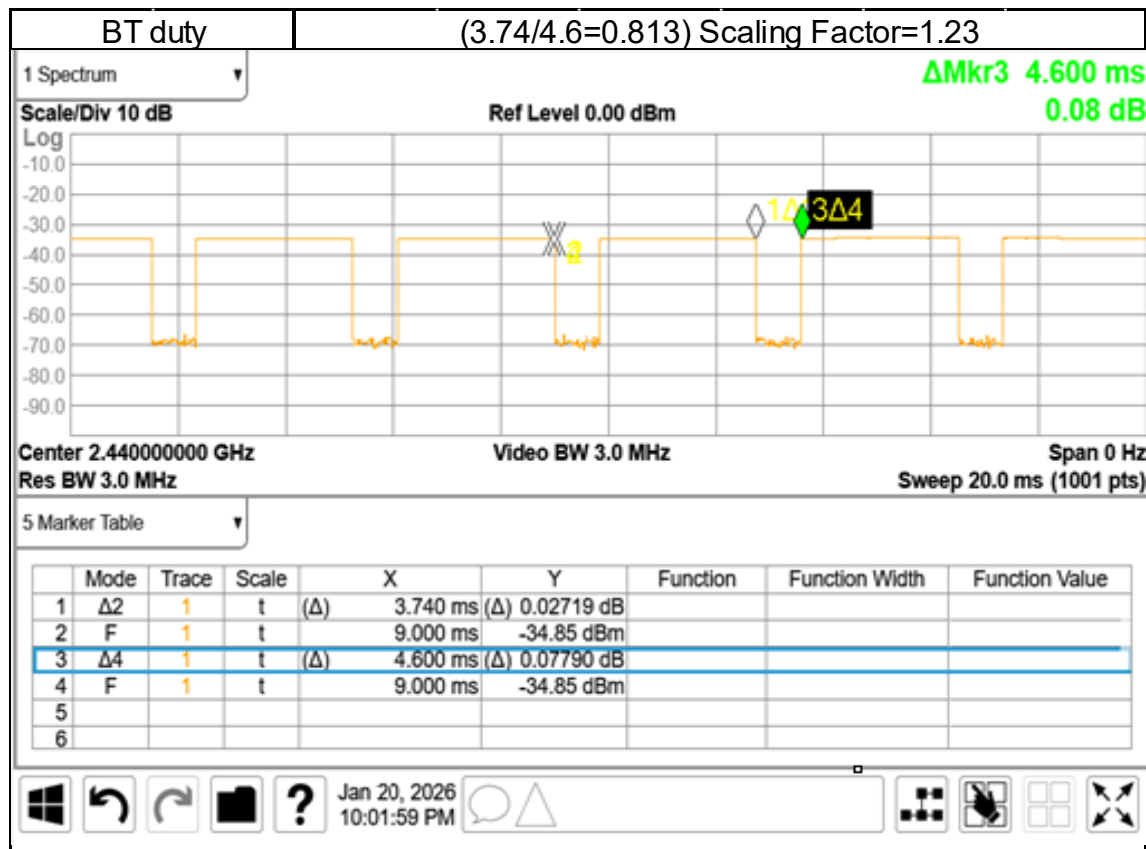
DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	
		Device Holder

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3 DUTY CYCLE



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4 SAR SYSTEM VERIFICATION

4.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear rint (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

4.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within $\pm 5\%$ of the target values.

4.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
2402	39.296	1.758	39.005	1.783	-0.74%	1.40%	$\pm 5\%$	Jan. 20, 2026
2441	39.218	1.792	38.936	1.817	-0.72%	1.38%	$\pm 5\%$	
2450	39.200	1.800	38.920	1.825	-0.71%	1.39%	$\pm 5\%$	
2480	39.160	1.832	38.882	1.852	-0.71%	1.09%	$\pm 5\%$	

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4.4 The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

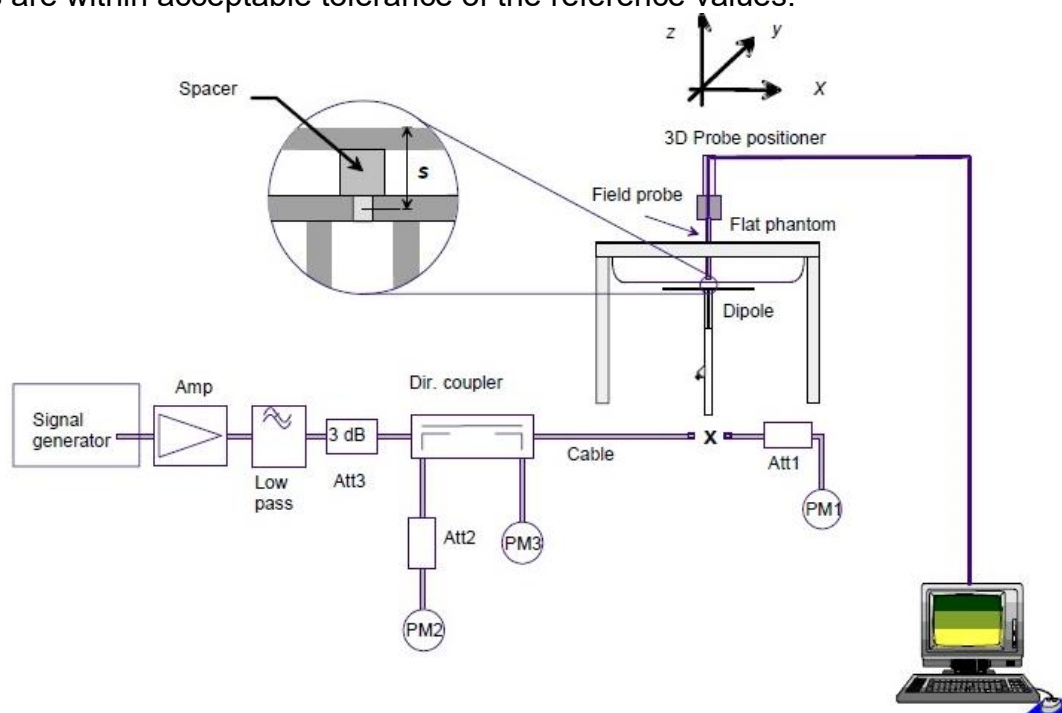
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

4.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values.

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



The block diagram of system check

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4.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.6	13.4	53.6	1.90	± 10%	Jan.05,2026

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5 TEST CONFIGURATIONS

5.1 Test Environment

Ambient Temperature: $22 \pm 2^{\circ}\text{C}$

Tissue Simulating Liquid: $22 \pm 2^{\circ}\text{C}$

5.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is $\leq 0.8\text{ W/kg}$, when the transmission band is $\leq 100\text{ MHz}$.
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is $\geq 0.8\text{ W/kg}$, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45\text{ W/kg}$ ($\sim 10\%$ from the 1-g SAR limit).

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5.3 Test position

SAR was tested for front, back, top, bottom, right, left, front curve 1, front curve 2 with 0mm test distance.

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5.4 Test limit

[§ 2.1093\(d\)\(1\)](#)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in [§ 1.1310](#) as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in [§ 1.1310\(a\)](#) through [\(c\) of this chapter](#) shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

Radiofrequency radiation exposure limits.

[§ 1.1310\(a\)](#)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

[§ 1.1310\(b\)](#)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

[§ 1.1310\(c\)](#)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in [Section 4.2](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, [Section 17.4.5](#), copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in [Section 4.1](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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6 MAXIMUM OUTPUT POWER

6.1 Bluetooth

Left

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	10.00	9.57	11.00	10.70	11.00	10.73
	CH 39	2441		9.82		10.84		10.94
	CH 78	2480		9.78		10.79		10.84

Right

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	10.00	9.64	11.00	10.71	11.00	10.75
	CH 39	2441		9.52		10.67		10.60
	CH 78	2480		9.41		10.46		10.47

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6.2 BLE

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Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	10.5	9.96
	CH 20	2440		10.18
	CH 39	2480		10.10
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 01	2404	10.5	10.01
	CH 20	2442		10.20
	CH 38	2478		10.12

Right

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	10.5	10.08
	CH 20	2442		9.95
	CH 39	2480		9.75
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 01	2404	10.5	10.06
	CH 20	2442		9.92
	CH 38	2478		9.77

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Mode	Channel	Frequency (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
QHS	CH 01	2404	10.00	9.58
	CH 20	2442		9.77
	CH 38	2478		9.62

Right

Mode	Channel	Frequency (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
QHS	CH 01	2404	10.00	9.64
	CH 20	2442		9.41
	CH 38	2478		9.22

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7 SUMMARY OF RESULTS

7.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

7.2 Summary of SAR Results

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(π/4 DQPSK)	Left	Front Surface	0	39	2441	11.00	10.84	1.23	103.75%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Left	Back Surface	0	00	2402	11.00	10.70	1.23	107.15%	0.253	0.333	-
Bluetooth(π/4 DQPSK)	Left	Back Surface	0	39	2441	11.00	10.84	1.23	103.75%	0.278	0.355	001
Bluetooth(π/4 DQPSK)	Left	Back Surface	0	78	2480	11.00	10.79	1.23	104.95%	0.180	0.232	-
Bluetooth(π/4 DQPSK)	Left	Top Edge	0	39	2441	11.00	10.84	1.23	103.75%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Left	Bottom Edge	0	39	2441	11.00	10.84	1.23	103.75%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Left	Right Edge	0	39	2441	11.00	10.84	1.23	103.75%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Left	Left Edge	0	39	2441	11.00	10.84	1.23	103.75%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Left	Front Curve 1	0	39	2441	11.00	10.84	1.23	103.75%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Left	Front Curve 2	0	39	2441	11.00	10.84	1.23	103.75%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Right	Front Surface	0	00	2402	11.00	10.71	1.23	106.91%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Right	Back Surface	0	00	2402	11.00	10.71	1.23	106.91%	0.194	0.255	-
Bluetooth(π/4 DQPSK)	Right	Back Surface	0	39	2441	11.00	10.67	1.23	107.89%	0.195	0.259	002
Bluetooth(π/4 DQPSK)	Right	Back Surface	0	78	2480	11.00	10.46	1.23	113.24%	0.165	0.230	-
Bluetooth(π/4 DQPSK)	Right	Top Edge	0	00	2402	11.00	10.71	1.23	106.91%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Right	Bottom Edge	0	00	2402	11.00	10.71	1.23	106.91%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Right	Right Edge	0	00	2402	11.00	10.71	1.23	106.91%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Right	Left Edge	0	00	2402	11.00	10.71	1.23	106.91%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Right	Front Curve 1	0	00	2402	11.00	10.71	1.23	106.91%	0.001	0.001	-
Bluetooth(π/4 DQPSK)	Right	Front Curve 2	0	00	2402	11.00	10.71	1.23	106.91%	0.001	0.001	-

Note:

Reported SAR = measured SAR * Power scaling * Duty cycle scaling

7.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

7.4 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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8 SIMULTANEOUS TRANSMISSION ANALYSIS

8.1 Simultaneous Transmission Scenarios:

Simultaneous Transmission configurations
BT Main + BT Aux

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f (886-2) 2298-0488

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8.2 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

8.3 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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Simultaneous Transmission Combination

		Reported SAR		Scenario 1
Exposure Position		6	7	6+7
		Bluetooth Left	Bluetooth Right	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front Surface	0	0.001	0.001	0.002
Back Surface	0	0.355	0.259	0.614
Top Edge	0	0.001	0.001	0.002
Bottom Edge	0	0.001	0.001	0.002
Right Edge	0	0.001	0.001	0.002
Left Edge	0	0.001	0.001	0.002

		Reported SAR		Scenario 1
Exposure Position		6	7	6+7
		Bluetooth Left	Bluetooth Right	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front Curve 1	0	0.001	0.001	0.002
Front Curve 2	0	0.001	0.001	0.002

8.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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f (886-2) 2298-0488

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9 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1665	Mar/11/2025	Mar/10/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7686	Sep/29/2025	Sep/28/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2028
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/17/2025	Feb/16/2026
Agilent	MXG Analog Signal Generator	N5181A	MY50145142	Dec/24/2025	Dec/23/2026
R&S	MXG Analog Signal Generator	SMB100A03	182012	Aug/09/2025	Aug/08/2026
Agilent	Dual-directional coupler	772D	MY46151258	Oct/08/2025	Oct/07/2026
Agilent	Dual-directional coupler	778D	MY46151242	Sep/09/2025	Sep/08/2026
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101973	Feb/21/2025	Feb/20/2026
R&S	Power Meter	NRX	102191	Feb/21/2025	Feb/20/2026
R&S	Power Sensor	NRP50S	101770	Jun/26/2025	Jun/25/2026
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
LKM	Digital thermometer	DTM3000	EC14010603	Nov/25/2025	Nov/24/2026
TECPEL	Digital thermometer	DTM-303A	TP130077	Oct/03/2025	Oct/02/2026

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10 UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy, Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.74%	N	1	1	0.64	0.43	0.47%	0.32%	M
Liquid Conductivity (mea.)	1.40%	N	1	1	0.6	0.49	0.84%	0.69%	M
Combined standard uncertainty		RSS					11.46%	11.43%	
Expant uncertainty (95% confidence interval), K=2							22.92%	22.87%	

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11 SAR MEASUREMENT RESULTS

ID: 001

Report No. :TESA2601000036E5

Measurement Report_Bluetooth(GFSK)_Body_Back Surface_CH 39_0mm_Left

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	2441.0, 39	7.71	1.817	38.936

Hardware Setup

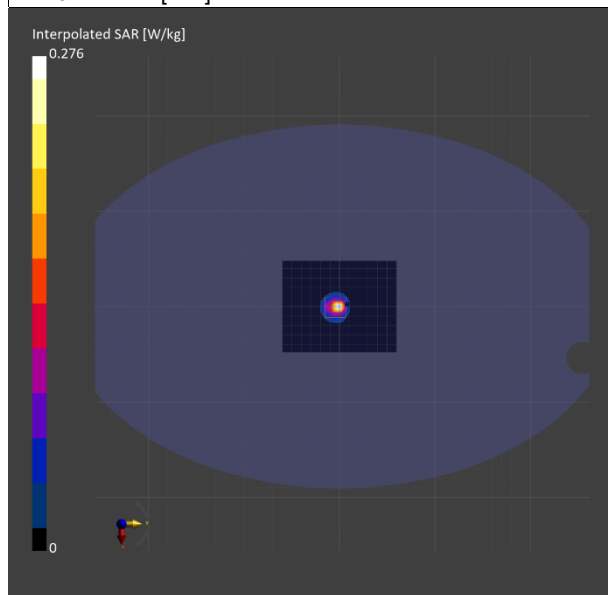
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2025-09-29	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-20	2026-01-20
psSAR1g [W/kg]	0.209	0.278
psSAR8g [W/kg]	0.095	0.092
psSAR10g [W/kg]	0.084	0.080
Power Drift [dB]	-0.03	0.02
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		5.2



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ID: 002

Report No. :TESA2601000036E5

Measurement Report_Bluetooth(GFSK)_Body_Back Surface_CH 39_0mm_Right

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	2441.0, 39	7.71	1.817	38.936

Hardware Setup

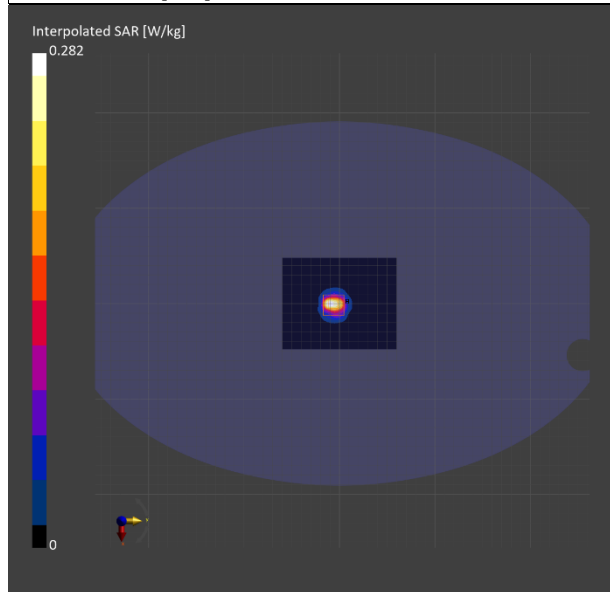
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2025-09-29	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-20	2026-01-20
psSAR1g [W/kg]	0.177	0.195
psSAR8g [W/kg]	0.071	0.066
psSAR10g [W/kg]	0.062	0.057
Power Drift [dB]	0.03	0.04
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		5.7



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12 SAR SYSTEM CHECK RESULTS

Report No. :TESA2601000036E5

Measurement Report

Dipole 2450 MHz_SN:727

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	7.71	1.825	38.92

Hardware Setup

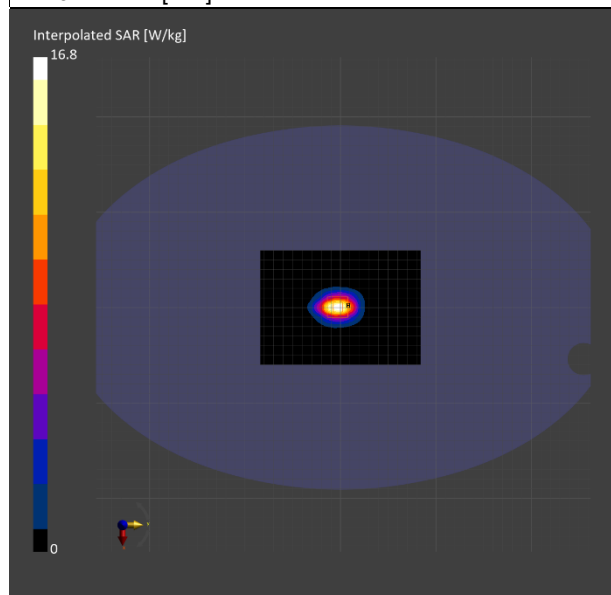
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2025-09-29	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-05	2026-01-05
psSAR1g [W/kg]	12.9	13.4
psSAR8g [W/kg]	6.67	7.37
psSAR10g [W/kg]	6.03	6.73
Power Drift [dB]	0.03	0.01
M2/M1 [%]		60.0
Dist 3dB Peak [mm]		9.0



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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Refer to separated files for the following appendixes.

13.1 SAR_Appendix A Photographs

13.2 SAR_Appendix B DAE & Probe Cal. Certificate

13.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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