

RF Exposure report



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

EUT Description	Wireless module installed in DS-X Series ECG, Respiration and SpO2 Transmitter
Model No.	JODY-W263-00B
Host Model Number:	DS-X1F
Family Model No.	DS-X1M/DS-X1N
Model Difference	Difference is only SPO2(saturation of percutaneous oxygen) module.
Applicant	Takashi Nomura 3-39-84Hongo, Bunkyo-ku, Tokyo, 113-8420, Japan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	DV8DSX1
Date of EUT Receipt	Aug. 15, 2025
Date of Test(s)	Aug. 25, 2025 ~ Sep. 19, 2025
Date of Issue	Dec. 10, 2025

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
TESA2508000624ES	00	Initial creation of document	Oct. 03, 2025	Cindy Chou	
TESA2508000624ES	01	Update simultaneous transmission value	Dec. 10, 2025	Cindy Chou	*

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.
2. Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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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

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB248227D01v02r02

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1.2 Description of EUT

EUT Description	Wireless module installed in DS-X Series ECG, Respiration and SpO2 Transmitter	
Model No.	JODY-W263-00B	
Host Model Number:	DS-X1F	
Family Model No.	DS-X1M/DS-X1N	
Model Difference	Difference is only SPO2(saturation of percutaneous oxygen) module.	
Duty Cycle	WLAN 802.11	Please refer to section 3
	Bluetooth	Please refer to section 3
Supported radios (TX Frequency Range, MHz)	802.11 b/g/n	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac	5.2GHz (5150.0 – 5250.0 MHz)
		5.3GHz (5250.0 – 5350.0 MHz)
		5.6GHz (5470.0 – 5725.0 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

1.3 Maximum value

Body

Summary of Maximum SAR Value	
Mode	Highest SAR 1g (W/kg)
Bluetooth(GPSK)	0.05
2.4G WLAN	0.61
5G WLAN	1.02

Limbs

Summary of Maximum SAR Value	
Mode	Highest SAR 10g (W/kg)
Bluetooth(GPSK)	0.02
2.4G WLAN	0.26
5G WLAN	0.33

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	Test Engineer	Project Manager	FCC Designation number/ Registration Number	IC CAB identifier
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
		SAR 6	-	-		
		SAR 8	-	-		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	-	-	TW0028/ 200037	
		SAR 4	-	-		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	Ender Lin	Jasper Wang	TW0027/ 891563	
		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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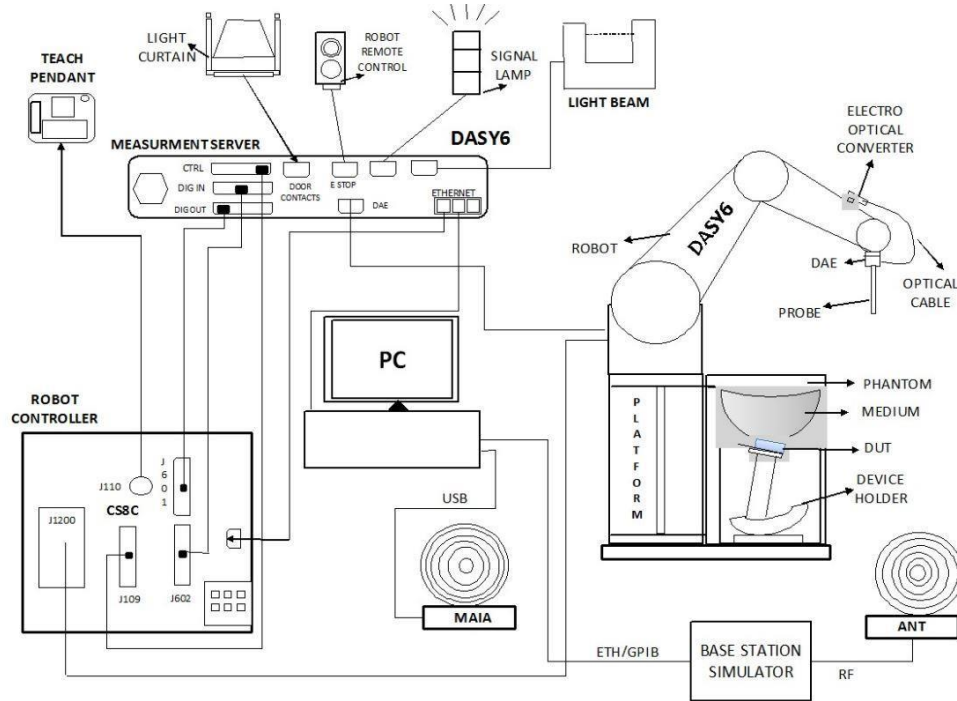
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2.2 SAR System

Block Diagram (DASY6)

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 10 and the DASY6 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 2450/5250/5600/5750/5850 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

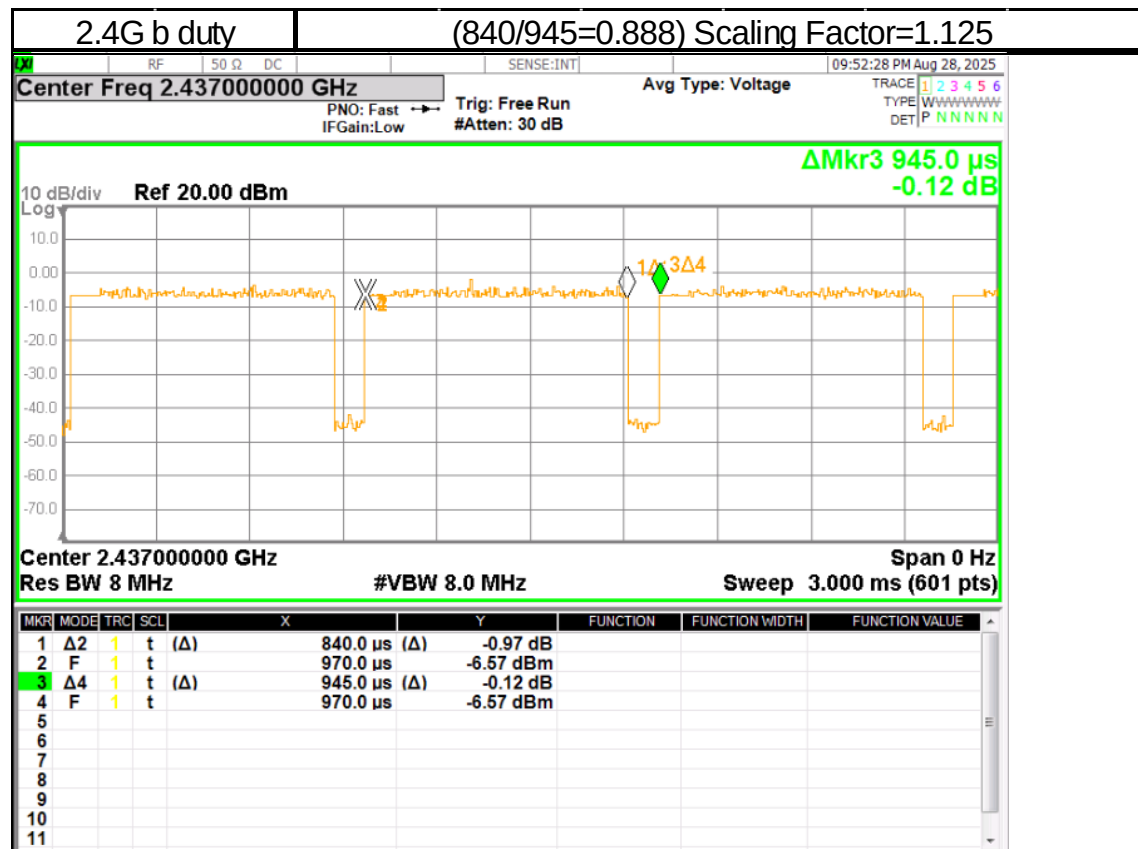
Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	
		Device Holder

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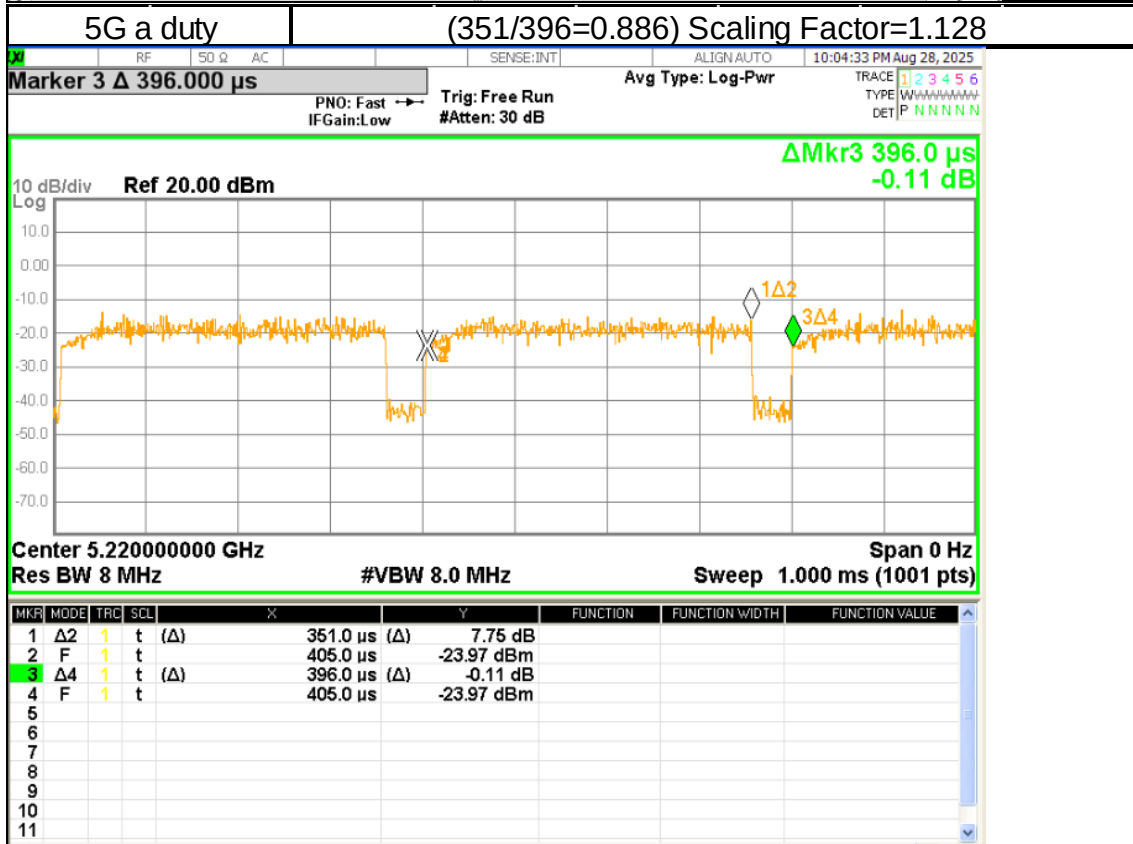
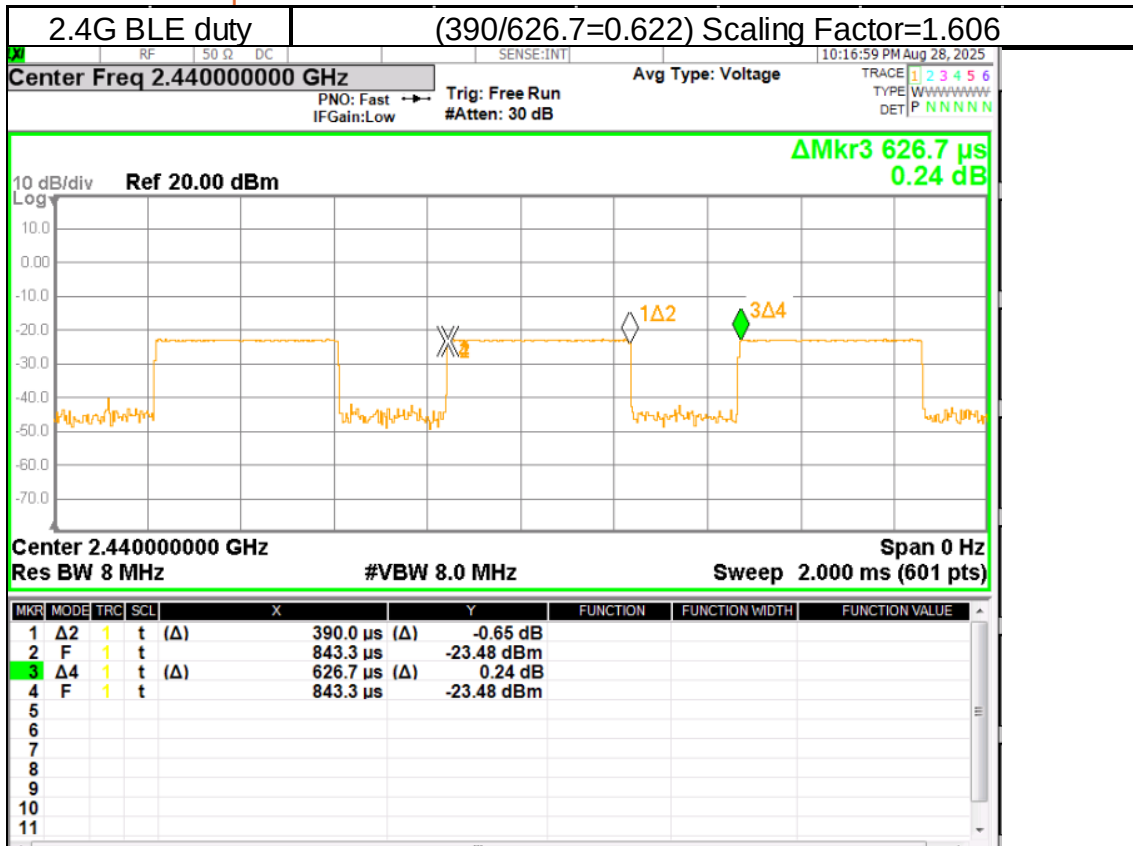
3 DUTY CYCLE



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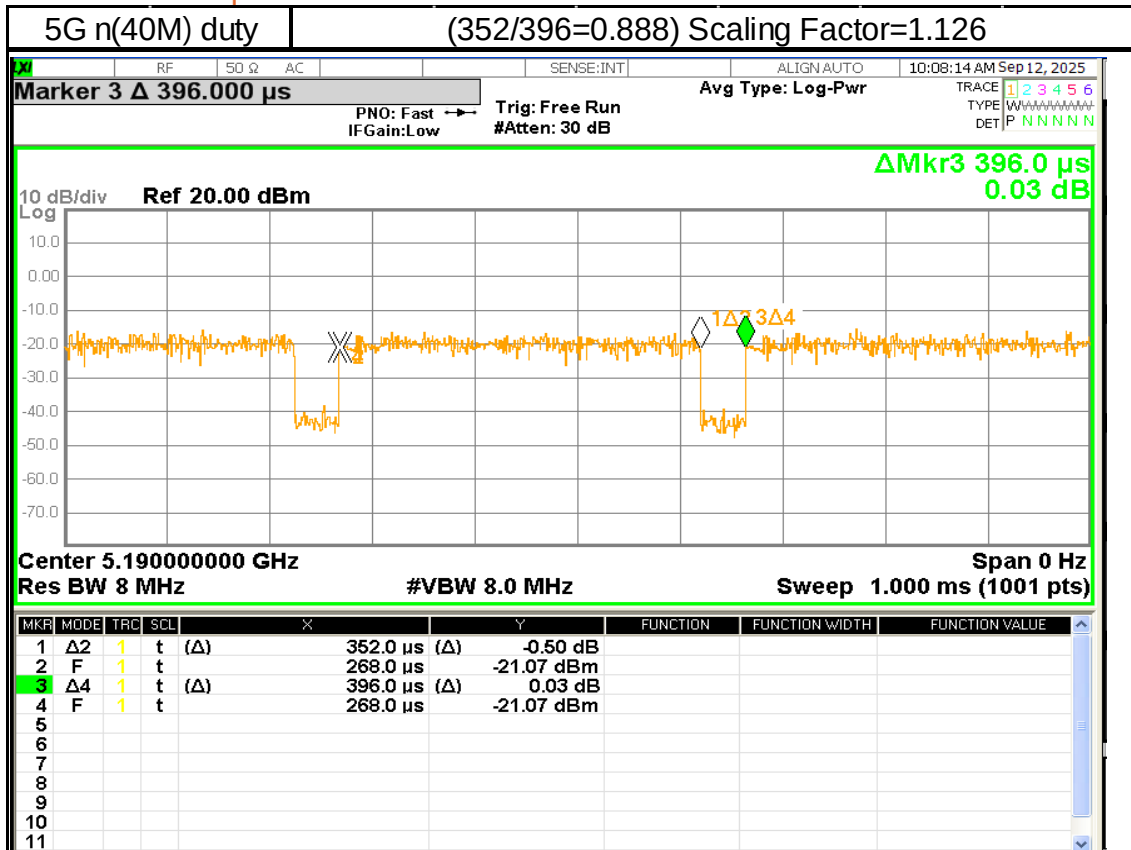
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4 SAR SYSTEM VERIFICATION

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	40.267	1.819	2.47%	3.47%	$\pm 5\%$	Sep. 16, 2025
2412	39.276	1.767	40.244	1.841	2.46%	4.19%	$\pm 5\%$	
2437	39.226	1.789	40.214	1.859	2.52%	3.91%	$\pm 5\%$	
2441	39.218	1.792	40.200	1.868	2.50%	4.24%	$\pm 5\%$	
2450	39.200	1.800	40.179	1.862	2.50%	3.44%	$\pm 5\%$	
2462	39.184	1.813	40.171	1.889	2.52%	4.19%	$\pm 5\%$	
2480	39.160	1.832	40.143	1.899	2.51%	3.66%	$\pm 5\%$	
5180	36.020	4.639	36.990	4.776	2.69%	2.95%	$\pm 5\%$	Sep. 17, 2025
5200	36.000	4.660	36.967	4.794	2.69%	2.88%	$\pm 5\%$	
5220	35.980	4.680	36.953	4.825	2.70%	3.10%	$\pm 5\%$	
5240	35.960	4.700	36.928	4.835	2.69%	2.87%	$\pm 5\%$	
5250	35.950	4.710	36.912	4.841	2.68%	2.78%	$\pm 5\%$	
5260	35.940	4.720	36.895	4.849	2.66%	2.73%	$\pm 5\%$	
5280	35.920	4.740	36.871	4.884	2.65%	3.04%	$\pm 5\%$	
5300	35.900	4.760	36.856	4.891	2.66%	2.75%	$\pm 5\%$	Sep. 18, 2025
5320	35.880	4.780	36.843	4.930	2.68%	3.14%	$\pm 5\%$	
5510	35.635	4.976	36.621	5.117	2.77%	2.84%	$\pm 5\%$	
5590	35.515	5.060	36.546	5.189	2.90%	2.56%	$\pm 5\%$	
5600	35.500	5.070	36.513	5.222	2.85%	3.00%	$\pm 5\%$	
5670	35.430	5.140	36.394	5.324	2.72%	3.58%	$\pm 5\%$	
5710	35.390	5.180	36.366	5.336	2.76%	3.01%	$\pm 5\%$	
5745	35.355	5.215	36.343	5.360	2.79%	2.78%	$\pm 5\%$	
5750	35.350	5.220	36.332	5.374	2.78%	2.95%	$\pm 5\%$	
5785	35.315	5.255	36.307	5.416	2.81%	3.06%	$\pm 5\%$	
5825	35.275	5.296	36.262	5.461	2.80%	3.12%	$\pm 5\%$	
5850	35.250	5.323	36.234	5.475	2.79%	2.86%	$\pm 5\%$	

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4.4 The composition of the tissue simulating liquid:

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

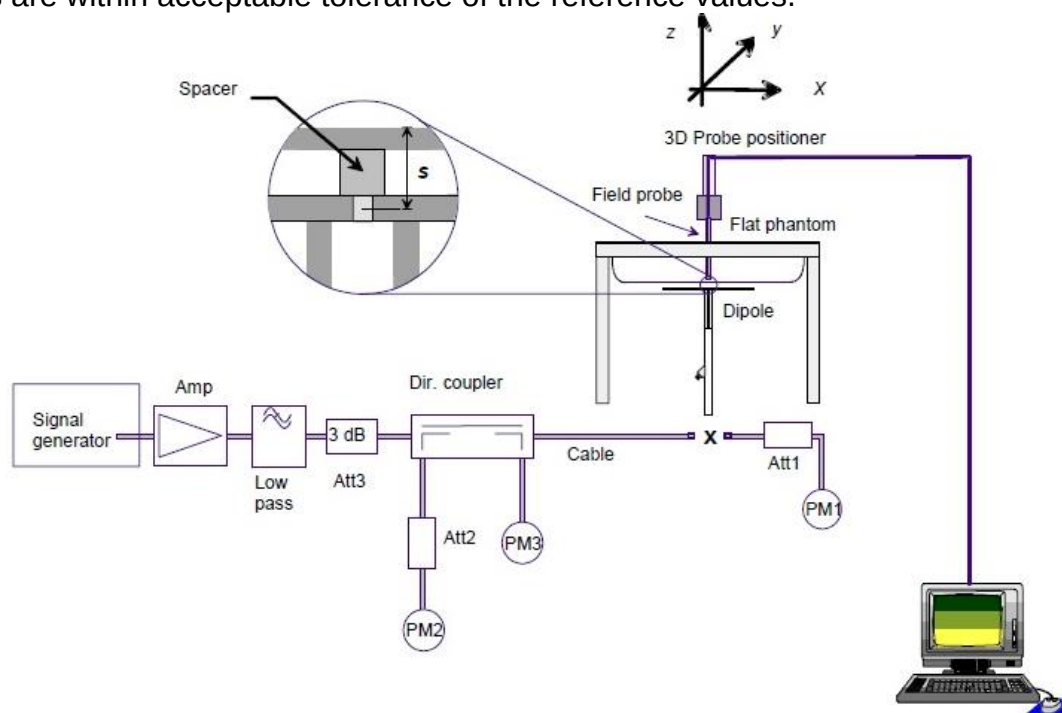
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

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	12	48	-8.75	± 10%	Sep.16,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1349	5250	80.9	8.07	80.7	-0.25	± 10%	Sep.17,2025
D5GHzV2	1349	5600	82.4	8.92	89.2	8.25	± 10%	Sep.18,2025
D5GHzV2	1349	5750	80.8	8.52	85.2	5.45	± 10%	Sep.18,2025
D5GHzV2	1349	5850	79.9	8.17	81.7	2.25	± 10%	Sep.18,2025

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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).
- **WLAN 2.4GHz:** 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is $\leq 0.8 \text{ W/kg}$, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is $> 0.8 \text{ W/kg}$, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, SAR is required for the third channel; i.e., all channels require testing.
- **WLAN 2.4GHz:** 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2 \text{ W/kg}$.
- **WLAN 5GHz:** Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is $> 0.8 \text{ W/kg}$, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is $\leq 1.2 \text{ W/kg}$ or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration

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specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.

- **WLAN 5GHz:** Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.

- **NFC Test exclusion:** BT and WLAN Main use the same antenna path, but they can't transmit at the same time.

Based on KDB447498D01v06 4.3.1 c), SAR test exclusion threshold for NFC (13.56MHz) shall be evaluated as below,

a) For test separation distances ≤ 50 mm, the power threshold determined by the equation in 4.3.1 c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

b) The power threshold at 50mm/100 MHz in 4.3.1 b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ where f is 13.56MHz

c) The power threshold in 4.3.1 b) is $[\text{Power allowed at numeric threshold for 50 mm in 4.3.1 a)} + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$, for 100 MHz to 1500 MHz where test separation distance is 50mm, frequency is 100MHz.

d) Power allowed at numeric threshold for 50 mm in 4.3.1 a) is $[3/\sqrt{f(\text{GHz})}] \cdot (\text{test separation distance})$

Hence, SAR test exclusion threshold is calculated in reverse sequence:

$$d) : [3/\sqrt{0.1}] \cdot 50 = 474.3416\text{mW}$$

$$c) : 474.3416 + (50-50) \cdot (100/150) = 474.3416\text{mW}$$

$$b) : 474.3416 \cdot [1 + \log(100/13.56)] = 885.9470\text{mW}$$

$$a) : 885.9470 \cdot 0.5 = 442.974\text{mW}$$

So the SAR test exclusion power threshold for NFC(13.56MHz) is 442.974mW (equal to 26.464dBm).

Also, the maximum power of NFC is -82.41757 dBm (converted from 12.74 dBuV/m at 3m) and it is far below the exclusion threshold (26.464dBm), so SAR test for NFC can be excluded.

- **NFC estimated SAR:**Based on KDB447498D01v06 4.3.2 b), when an antenna qualifies for the standalone SAR test exclusion of 4.3.1 and also transmits simultaneously with other antennas, the standalone SAR value must be estimated according to the following to determine the simultaneous transmission SAR test exclusion criteria:

1) $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}/x] \text{ W/kg}$, for test separation distances ≤ 50 mm, where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.

Using the most conservative test separation distance 5mm, so the estimated 1g-SAR for NFC would be 0.00000000017796767 W/Kg.

Using the most conservative test separation distance 5mm, so the estimated 10g-SAR for NFC would be 0.000000000071187067 W/Kg.

$$[0.0000000573116/5] \cdot [\sqrt{0.01356}/7.5] = 0.00000000017796767 \text{ W/Kg}$$

$$[0.0000000573116/5] \cdot [\sqrt{0.01356}/18.75] = 0.000000000071187067 \text{ W/Kg}$$

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5.3 Test position

SAR test position (0mm)

SAR is tested for all surfaces with 0mm 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 WLAN

Ant 1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	9.00	7.80
		6	2437		9.00	8.49
		11	2462		9.00	8.85
	802.11g	1	2412	6Mbps	1.00	0.20
		6	2437		6.00	5.22
		11	2462		1.00	0.95
	802.11n20-HT0	1	2412	MCS0	1.00	0.33
		6	2437		6.00	5.64
		11	2462		2.00	1.09
	802.11n40-HT0	3	2422	MCS0	-1.00	-2.95
		6	2437		1.00	0.59
		9	2452		1.00	-0.68
Ant 1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	15.00	13.49
		40	5200		15.00	13.35
		44	5220		15.00	13.38
		48	5240		15.00	13.47
	802.11n20-HT0	36	5180	MCS0	15.00	13.58
		40	5200		15.00	13.51
		44	5220		15.00	13.49
		48	5240		15.00	13.70
	802.11ac20-VHT0	36	5180	MCS0	15.00	13.56
		40	5200		15.00	13.38
		44	5220		15.00	13.67
		48	5240		15.00	13.56
	802.11n40-HT0	38	5190	MCS0	14.00	13.37
		46	5230		14.00	13.62
	802.11ac40-VHT0	38	5190	MCS0	14.00	13.54
		46	5230		14.00	13.48
	802.11ac80-VHT0	42	5210	MCS0	13.00	12.96

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Ant 1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	15.00	13.69
		56	5280		15.00	13.65
		60	5300		15.00	13.76
		64	5320		15.00	13.83
	802.11n20-HT0	52	5260	MCS0	15.00	13.76
		56	5280		15.00	13.46
		60	5300		15.00	13.66
		64	5320		15.00	13.71
	802.11ac20-VHT0	52	5260	MCS0	15.00	13.53
		56	5280		15.00	13.67
		60	5300		15.00	13.26
		64	5320		15.00	13.75
	802.11n40-HT0	54	5270	MCS0	14.00	13.74
		62	5310		14.00	13.56
	802.11ac40-VHT0	54	5270	MCS0	14.00	13.76
		62	5310		14.00	13.52
	802.11ac80-VHT0	58	5290	MCS0	13.00	12.31

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Ant 1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.00	12.79
		120	5600		14.00	13.14
		140	5700		14.00	13.52
		144	5720		14.00	12.98
	802.11n20-HT0	100	5500	MCS0	14.00	13.06
		120	5600		14.00	13.35
		140	5700		14.00	13.67
		144	5720		14.00	13.15
	802.11ac20-VHT0	100	5500	MCS0	14.00	13.05
		120	5600		14.00	13.23
		140	5700		14.00	13.51
		144	5720		14.00	13.45
	802.11n40-HT0	102	5510	MCS0	14.00	13.03
		118	5590		14.00	12.80
		134	5670		14.00	13.36
		142	5710		14.00	13.31
	802.11ac40-VHT0	102	5510	MCS0	14.00	12.13
		118	5590		14.00	13.04
		134	5670		14.00	13.60
		142	5710		14.00	13.46
	802.11ac80-VHT0	106	5530	MCS0	13.00	12.10
		122	5610		13.00	12.11
		138	5690		13.00	12.05

Ant 1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	15.00	14.57
		157	5785		15.00	14.41
		165	5825		15.00	14.29
	802.11n20-HT0	149	5745	MCS0	15.00	14.82
		157	5785		15.00	14.68
		165	5825		15.00	14.44
	802.11ac20-VHT0	149	5745	MCS0	15.00	14.66
		157	5785		15.00	14.77
		165	5825		15.00	14.52
	802.11n40-HT0	151	5755	MCS0	15.00	14.63
		159	5795		15.00	14.56
	802.11ac40-VHT0	151	5755	MCS0	15.00	14.78
		159	5795		15.00	14.65
	802.11ac80-VHT0	155	5775	MCS0	14.00	13.30

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6.2 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	3	2.77
	CH 19	2440		2.82
	CH 39	2480		2.91

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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

Body

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	
WLAN 802.11b	Ant 1	Front Surface	0	11	2462	9.00	8.85	1.13	103.51%	0.206	0.240	-
WLAN 802.11b	Ant 1	Back Surface	0	11	2462	9.00	8.85	1.13	103.51%	0.094	0.109	-
WLAN 802.11b	Ant 1	Top Edge	0	11	2462	9.00	8.85	1.13	103.51%	0.018	0.021	-
WLAN 802.11b	Ant 1	Bottom Edge	0	11	2462	9.00	8.85	1.13	103.51%	0.001	0.001	-
WLAN 802.11b	Ant 1	Right Edge	0	11	2462	9.00	8.85	1.13	103.51%	0.026	0.030	-
WLAN 802.11b	Ant 1	Left Edge	0	1	2412	9.00	7.80	1.13	131.83%	0.406	0.602	-
WLAN 802.11b	Ant 1	Left Edge	0	6	2437	9.00	8.49	1.13	112.46%	0.482	0.610	-
WLAN 802.11b	Ant 1	Left Edge	0	11	2462	9.00	8.85	1.13	103.51%	0.526	0.613	001
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	
WLAN 802.11a 5.2G	Ant 1	Front Surface	0	36	5180	15.00	13.49	1.13	141.58%	0.127	0.203	-
WLAN 802.11a 5.2G	Ant 1	Back Surface	0	36	5180	15.00	13.49	1.13	141.58%	0.041	0.065	-
WLAN 802.11a 5.2G	Ant 1	Top Edge	0	36	5180	15.00	13.49	1.13	141.58%	0.009	0.014	-
WLAN 802.11a 5.2G	Ant 1	Bottom Edge	0	36	5180	15.00	13.49	1.13	141.58%	0.001	0.002	-
WLAN 802.11a 5.2G	Ant 1	Right Edge	0	36	5180	15.00	13.49	1.13	141.58%	0.010	0.016	-
WLAN 802.11a 5.2G	Ant 1	Left Edge	0	36	5180	15.00	13.49	1.13	141.58%	0.292	0.466	002
WLAN 802.11a 5.2G	Ant 1	Left Edge	0	40	5200	15.00	13.35	1.13	146.22%	0.256	0.422	-
WLAN 802.11a 5.2G	Ant 1	Left Edge	0	44	5220	15.00	13.38	1.13	145.21%	0.249	0.408	-
WLAN 802.11a 5.2G	Ant 1	Left Edge	0	48	5240	15.00	13.47	1.13	142.23%	0.273	0.438	-
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	
WLAN 802.11a 5.3G	Ant 1	Front Surface	0	64	5320	15.00	13.83	1.13	130.92%	0.154	0.227	-
WLAN 802.11a 5.3G	Ant 1	Back Surface	0	64	5320	15.00	13.83	1.13	130.92%	0.047	0.069	-
WLAN 802.11a 5.3G	Ant 1	Top Edge	0	64	5320	15.00	13.83	1.13	130.92%	0.006	0.009	-
WLAN 802.11a 5.3G	Ant 1	Bottom Edge	0	64	5320	15.00	13.83	1.13	130.92%	0.001	0.001	-
WLAN 802.11a 5.3G	Ant 1	Right Edge	0	64	5320	15.00	13.83	1.13	130.92%	0.008	0.012	-
WLAN 802.11a 5.3G	Ant 1	Left Edge	0	52	5260	15.00	13.69	1.13	135.21%	0.244	0.372	-
WLAN 802.11a 5.3G	Ant 1	Left Edge	0	56	5280	15.00	13.65	1.13	136.46%	0.262	0.403	-
WLAN 802.11a 5.3G	Ant 1	Left Edge	0	60	5300	15.00	13.76	1.13	133.05%	0.255	0.383	-
WLAN 802.11a 5.3G	Ant 1	Left Edge	0	64	5320	15.00	13.83	1.13	130.92%	0.281	0.415	003
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	
WLAN 802.11n(40M) 5.6G	Ant 1	Front Surface	0	134	5670	14.00	13.36	1.13	115.88%	0.556	0.725	-
WLAN 802.11n(40M) 5.6G	Ant 1	Back Surface	0	134	5670	14.00	13.36	1.13	115.88%	0.125	0.163	-
WLAN 802.11n(40M) 5.6G	Ant 1	Top Edge	0	134	5670	14.00	13.36	1.13	115.88%	0.015	0.020	-
WLAN 802.11n(40M) 5.6G	Ant 1	Bottom Edge	0	134	5670	14.00	13.36	1.13	115.88%	0.001	0.001	-
WLAN 802.11n(40M) 5.6G	Ant 1	Right Edge	0	134	5670	14.00	13.36	1.13	115.88%	0.033	0.043	-
WLAN 802.11n(40M) 5.6G	Ant 1	Left Edge	0	102	5510	14.00	13.03	1.13	125.03%	0.718	1.011	-
WLAN 802.11n(40M) 5.6G	Ant 1	Left Edge	0	118	5590	14.00	12.80	1.13	131.83%	0.683	1.014	-
WLAN 802.11n(40M) 5.6G	Ant 1	Left Edge	0	134	5670	14.00	13.36	1.13	115.88%	0.785	1.024	004
WLAN 802.11n(40M) 5.6G	Ant 1	Left Edge	0	142	5710	14.00	13.31	1.13	117.22%	0.764	1.008	-
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	
WLAN 802.11a 5.8G	Ant 1	Front Surface	0	149	5745	15.00	14.57	1.13	110.41%	0.603	0.751	-
WLAN 802.11a 5.8G	Ant 1	Back Surface	0	149	5745	15.00	14.57	1.13	110.41%	0.132	0.164	-
WLAN 802.11a 5.8G	Ant 1	Top Edge	0	149	5745	15.00	14.57	1.13	110.41%	0.062	0.077	-
WLAN 802.11a 5.8G	Ant 1	Bottom Edge	0	149	5745	15.00	14.57	1.13	110.41%	0.001	0.001	-
WLAN 802.11a 5.8G	Ant 1	Right Edge	0	149	5745	15.00	14.57	1.13	110.41%	0.057	0.071	-
WLAN 802.11a 5.8G	Ant 1	Left Edge	0	149	5745	15.00	14.57	1.13	110.41%	0.643	0.801	005
WLAN 802.11a 5.8G	Ant 1	Left Edge	0	157	5785	15.00	14.41	1.13	114.55%	0.617	0.797	-
WLAN 802.11a 5.8G	Ant 1	Left Edge	0	165	5825	15.00	14.29	1.13	117.76%	0.592	0.786	-
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	
BLE_1M	Ant 2	Front Surface	0	39	2480	3.00	2.91	1.00	102.09%	0.014	0.015	-
BLE_1M	Ant 2	Back Surface	0	39	2480	3.00	2.91	1.00	102.09%	0.002	0.002	-
BLE_1M	Ant 2	Top Edge	0	39	2480	3.00	2.91	1.00	102.09%	0.002	0.002	-
BLE_1M	Ant 2	Bottom Edge	0	39	2480	3.00	2.91	1.00	102.09%	0.001	0.001	-
BLE_1M	Ant 2	Right Edge	0	39	2480	3.00	2.91	1.00	102.09%	0.002	0.002	-
BLE_1M	Ant 2	Left Edge	0	00	2402	3.00	2.77	1.00	105.44%	0.042	0.044	-
BLE_1M	Ant 2	Left Edge	0	19	2440	3.00	2.82	1.00	104.23%	0.048	0.050	-
BLE_1M	Ant 2	Left Edge	0	39	2480	3.00	2.91	1.00	102.09%	0.051	0.052	006

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Limb

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 10g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Ant 1	Front Surface	0	11	2462	9.00	8.85	1.13	103.51%	0.094	0.109	-
WLAN 802.11b	Ant 1	Back Surface	0	11	2462	9.00	8.85	1.13	103.51%	0.076	0.089	-
WLAN 802.11b	Ant 1	Top Edge	0	11	2462	9.00	8.85	1.13	103.51%	0.009	0.010	-
WLAN 802.11b	Ant 1	Bottom Edge	0	11	2462	9.00	8.85	1.13	103.51%	0.001	0.001	-
WLAN 802.11b	Ant 1	Right Edge	0	11	2462	9.00	8.85	1.13	103.51%	0.013	0.015	-
WLAN 802.11b	Ant 1	Left Edge	0	1	2412	9.00	7.80	1.13	131.83%	0.164	0.243	-
WLAN 802.11b	Ant 1	Left Edge	0	6	2437	9.00	8.49	1.13	112.46%	0.201	0.254	-
WLAN 802.11b	Ant 1	Left Edge	0	11	2462	9.00	8.85	1.13	103.51%	0.220	0.256	007
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 10g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.2G	Ant 1	Front Surface	0	36	5180	15.00	13.49	1.13	141.58%	0.056	0.089	-
WLAN 802.11a 5.2G	Ant 1	Back Surface	0	36	5180	15.00	13.49	1.13	141.58%	0.017	0.027	-
WLAN 802.11a 5.2G	Ant 1	Top Edge	0	36	5180	15.00	13.49	1.13	141.58%	0.006	0.010	-
WLAN 802.11a 5.2G	Ant 1	Bottom Edge	0	36	5180	15.00	13.49	1.13	141.58%	0.001	0.002	-
WLAN 802.11a 5.2G	Ant 1	Right Edge	0	36	5180	15.00	13.49	1.13	141.58%	0.010	0.016	-
WLAN 802.11a 5.2G	Ant 1	Left Edge	0	36	5180	15.00	13.49	1.13	141.58%	0.078	0.125	008
WLAN 802.11a 5.2G	Ant 1	Left Edge	0	40	5200	15.00	13.35	1.13	146.22%	0.059	0.097	-
WLAN 802.11a 5.2G	Ant 1	Left Edge	0	44	5220	15.00	13.38	1.13	145.21%	0.064	0.105	-
WLAN 802.11a 5.2G	Ant 1	Left Edge	0	48	5240	15.00	13.47	1.13	142.23%	0.076	0.122	-
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 10g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.3G	Ant 1	Front Surface	0	64	5320	15.00	13.83	1.13	130.92%	0.060	0.089	-
WLAN 802.11a 5.3G	Ant 1	Back Surface	0	64	5320	15.00	13.83	1.13	130.92%	0.018	0.027	-
WLAN 802.11a 5.3G	Ant 1	Top Edge	0	64	5320	15.00	13.83	1.13	130.92%	0.001	0.001	-
WLAN 802.11a 5.3G	Ant 1	Bottom Edge	0	64	5320	15.00	13.83	1.13	130.92%	0.001	0.001	-
WLAN 802.11a 5.3G	Ant 1	Right Edge	0	64	5320	15.00	13.83	1.13	130.92%	0.002	0.003	-
WLAN 802.11a 5.3G	Ant 1	Left Edge	0	52	5260	15.00	13.69	1.13	135.21%	0.065	0.099	-
WLAN 802.11a 5.3G	Ant 1	Left Edge	0	56	5280	15.00	13.65	1.13	136.46%	0.061	0.094	-
WLAN 802.11a 5.3G	Ant 1	Left Edge	0	60	5300	15.00	13.76	1.13	133.05%	0.069	0.104	-
WLAN 802.11a 5.3G	Ant 1	Left Edge	0	64	5320	15.00	13.83	1.13	130.92%	0.073	0.108	009
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 10g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.6G	Ant 1	Front Surface	0	134	5670	14.00	13.36	1.13	115.88%	0.207	0.270	-
WLAN 802.11n(40M) 5.6G	Ant 1	Back Surface	0	134	5670	14.00	13.36	1.13	115.88%	0.053	0.069	-
WLAN 802.11n(40M) 5.6G	Ant 1	Top Edge	0	134	5670	14.00	13.36	1.13	115.88%	0.005	0.007	-
WLAN 802.11n(40M) 5.6G	Ant 1	Bottom Edge	0	134	5670	14.00	13.36	1.13	115.88%	0.001	0.001	-
WLAN 802.11n(40M) 5.6G	Ant 1	Right Edge	0	134	5670	14.00	13.36	1.13	115.88%	0.011	0.014	-
WLAN 802.11n(40M) 5.6G	Ant 1	Left Edge	0	102	5510	14.00	13.03	1.13	125.03%	0.208	0.293	-
WLAN 802.11n(40M) 5.6G	Ant 1	Left Edge	0	118	5590	14.00	12.80	1.13	131.83%	0.198	0.294	-
WLAN 802.11n(40M) 5.6G	Ant 1	Left Edge	0	134	5670	14.00	13.36	1.13	115.88%	0.233	0.304	010
WLAN 802.11n(40M) 5.6G	Ant 1	Left Edge	0	142	5710	14.00	13.31	1.13	117.22%	0.213	0.281	-
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 10g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.8G	Ant 1	Front Surface	0	149	5745	15.00	14.57	1.13	110.41%	0.205	0.255	-
WLAN 802.11a 5.8G	Ant 1	Back Surface	0	149	5745	15.00	14.57	1.13	110.41%	0.053	0.066	-
WLAN 802.11a 5.8G	Ant 1	Top Edge	0	149	5745	15.00	14.57	1.13	110.41%	0.026	0.032	-
WLAN 802.11a 5.8G	Ant 1	Bottom Edge	0	149	5745	15.00	14.57	1.13	110.41%	0.001	0.001	-
WLAN 802.11a 5.8G	Ant 1	Right Edge	0	149	5745	15.00	14.57	1.13	110.41%	0.025	0.031	-
WLAN 802.11a 5.8G	Ant 1	Left Edge	0	149	5745	15.00	14.57	1.13	110.41%	0.265	0.330	011
WLAN 802.11a 5.8G	Ant 1	Left Edge	0	157	5785	15.00	14.41	1.13	114.55%	0.243	0.314	-
WLAN 802.11a 5.8G	Ant 1	Left Edge	0	165	5825	15.00	14.29	1.13	117.76%	0.248	0.329	-
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 10g (W/kg)		ID
										Measured	Reported	
BLE_1M	Ant 2	Front Surface	0	39	2480	3.00	2.91	1.00	102.09%	0.001	0.001	-
BLE_1M	Ant 2	Back Surface	0	39	2480	3.00	2.91	1.00	102.09%	0.001	0.001	-
BLE_1M	Ant 2	Top Edge	0	39	2480	3.00	2.91	1.00	102.09%	0.001	0.001	-
BLE_1M	Ant 2	Bottom Edge	0	39	2480	3.00	2.91	1.00	102.09%	0.001	0.001	-
BLE_1M	Ant 2	Right Edge	0	39	2480	3.00	2.91	1.00	102.09%	0.001	0.001	-
BLE_1M	Ant 2	Left Edge	0	00	2402	3.00	2.77	1.00	105.44%	0.011	0.012	-
BLE_1M	Ant 2	Left Edge	0	19	2440	3.00	2.82	1.00	104.23%	0.014	0.015	-
BLE_1M	Ant 2	Left Edge	0	39	2480	3.00	2.91	1.00	102.09%	0.018	0.018	012

Note:

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

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

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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
WLAN 2.4GHz Ant 1+ BT Ant 2 + NFC
WLAN 5GHz Ant 1+ BT Ant 2 + NFC

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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 Body

Exposure Position		Reported SAR				Scenario 1	Scenario 2
		1	2	3	4	1+3+4	2+3+4
		2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 2	NFC	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front Surface	0	0.240	0.751	0.015	0.000000000178	0.255	0.766
Back Surface	0	0.109	0.164	0.002	0.000000000178	0.111	0.166
Top Edge	0	0.021	0.077	0.002	0.000000000071	0.023	0.079
Bottom Edge	0	0.001	0.002	0.001	0.000000000178	0.002	0.003
Right Edge	0	0.030	0.071	0.002	0.000000000178	0.032	0.073
Left Edge	0	0.613	1.024	0.052	0.000000000178	0.665	1.076

Limb

Exposure Position		Reported SAR				Scenario 1	Scenario 2
		1	2	3	4	1+3+4	2+3+4
		2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 2	NFC	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
Front Surface	0	0.109	0.270	0.001	0.000000000071	0.110	0.271
Back Surface	0	0.089	0.069	0.001	0.000000000071	0.090	0.070
Top Edge	0	0.010	0.032	0.001	0.000000000071	0.011	0.033
Bottom Edge	0	0.001	0.002	0.001	0.000000000071	0.002	0.003
Right Edge	0	0.015	0.031	0.001	0.000000000071	0.016	0.032
Left Edge	0	0.256	0.330	0.018	0.000000000071	0.274	0.348

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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9 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1719	Jan/20/2025	Jan/19/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7823	Jul/29/2025	Jul/28/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/19/2024	Mar/18/2027
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/17/2025	Feb/16/2026
R&S	MXG Analog Signal Generator	SMB100A03	182996	Apr/19/2025	Apr/18/2026
Agilent	Dual-directional coupler	772D	MY52180142	Oct/30/2024	Oct/29/2025
Agilent	Dual-directional coupler	778D	MY52180302	Nov/06/2024	Nov/05/2025
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	109065	Aug/28/2024	Aug/27/2025
R&S	Power Meter	NRX	102034	Dec/27/2024	Dec/26/2025
R&S	Power Sensor	NRP18S	101974	Nov/11/2024	Nov/10/2025
Keysight	EXA Signal Analyzer	N9010B	MY59071573	Jun/03/2025	Jun/02/2026
SPEAG	Software	DASY 52 V52.10.4.152 7	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
LKM	Digital thermometer	DTM3000	3896	Dec/26/2024	Dec/25/2025
TECPEL	Digital thermometer	DTM-303A	TP130077	Oct/14/2024	Oct/13/2025

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10 UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

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	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√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	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√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	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.90%	N	1	1	0.64	0.43	1.86%	1.25%	M
Liquid Conductivity (mea.)	3.58%	N	1	1	0.6	0.49	2.15%	1.75%	M
Combined standard uncertainty		RSS					12.06%	11.90%	
Expart uncertainty (95% confidence interval), K=2							24.11%	23.81%	

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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 Distribution	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.)	2.52%	N	1	1	0.64	0.43	1.61%	1.08%	M
Liquid Conductivity (mea.)	4.24%	N	1	1	0.6	0.49	2.54%	2.08%	M
Combined standard uncertainty		RSS					11.81%	11.65%	
Expart uncertainty (95% confidence interval), K=2							23.62%	23.29%	

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11 SAR MEASUREMENT RESULTS

Date: 2025/9/16

ID: 001

Report No. :TESA2508000624ES

WLAN 802.11b_Body_Left Edge_CH 11_0mm_Ant 1

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.125

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.889$ S/m; $\epsilon_r = 40.171$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.01, 6.98, 6.24) @ 2462 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.766 V/m; Power Drift = -0.06 dB

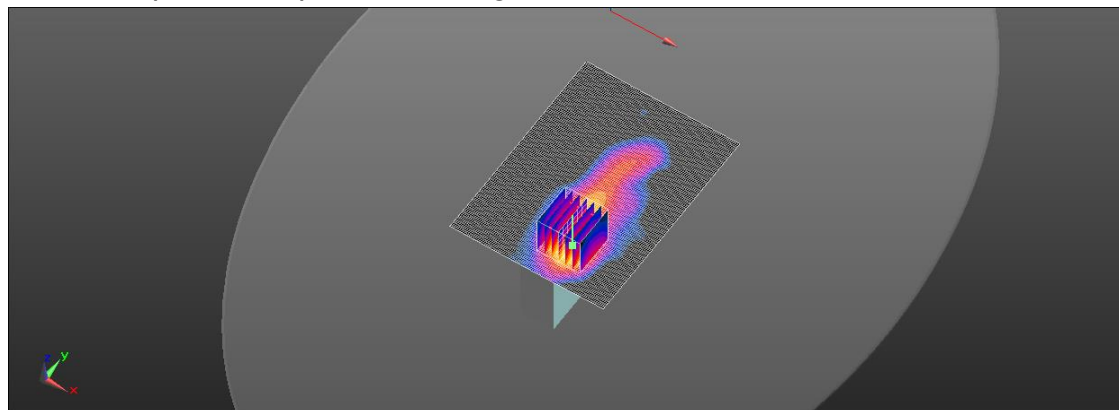
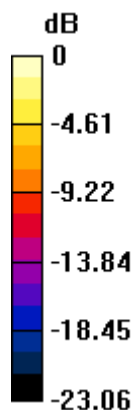
Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.526 W/kg; SAR(10 g) = 0.220 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 0.890 W/kg



0 dB = 0.890 W/kg = -0.51 dBW/kg

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Date: 2025/9/17

ID: 002

Report No. :TESA2508000624ES

WLAN 802.11a 5.2G_Body_Left Edge_CH 36_0mm_Ant 1

Communication System: WLAN; Frequency: 5180 MHz;Duty Cycle: 1:1.128

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.776 \text{ S/m}$; $\epsilon_r = 36.99$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.5, 5.48, 4.9) @ 5180 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.802 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.621 V/m; Power Drift = 0.04 dB

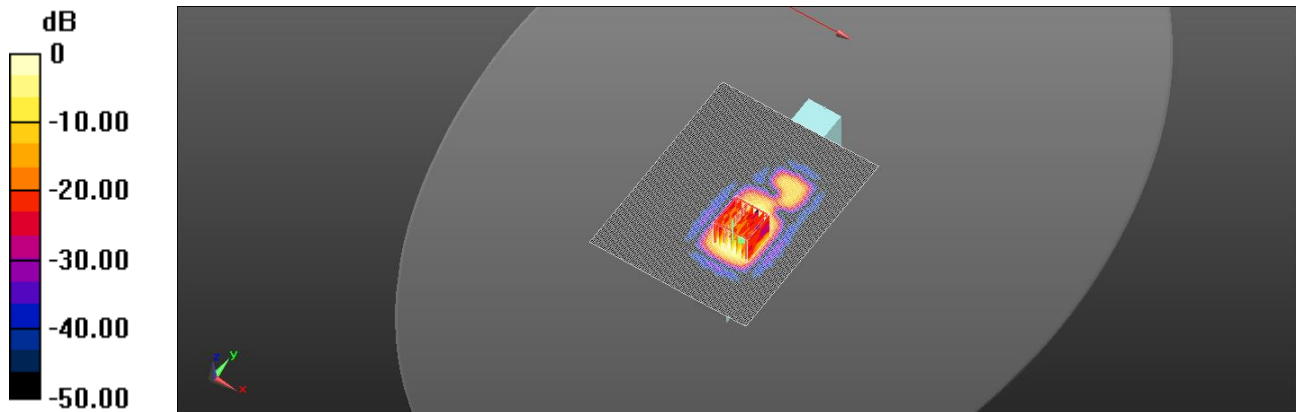
Peak SAR (extrapolated) = 2.40 W/kg

SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.078 W/kg

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 0.690 W/kg



0 dB = 0.690 W/kg = -1.61 dBW/kg

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Date: 2025/9/17

ID: 003

Report No. :TESA2508000624ES

WLAN 802.11a 5.3G_Body_Left Edge_CH 64_0mm_Ant 1

Communication System: WLAN; Frequency: 5320 MHz;Duty Cycle: 1:1.128

Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 4.93 \text{ S/m}$; $\epsilon_r = 36.843$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.5, 5.48, 4.9) @ 5320 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.978 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.845 V/m; Power Drift = 0.06 dB

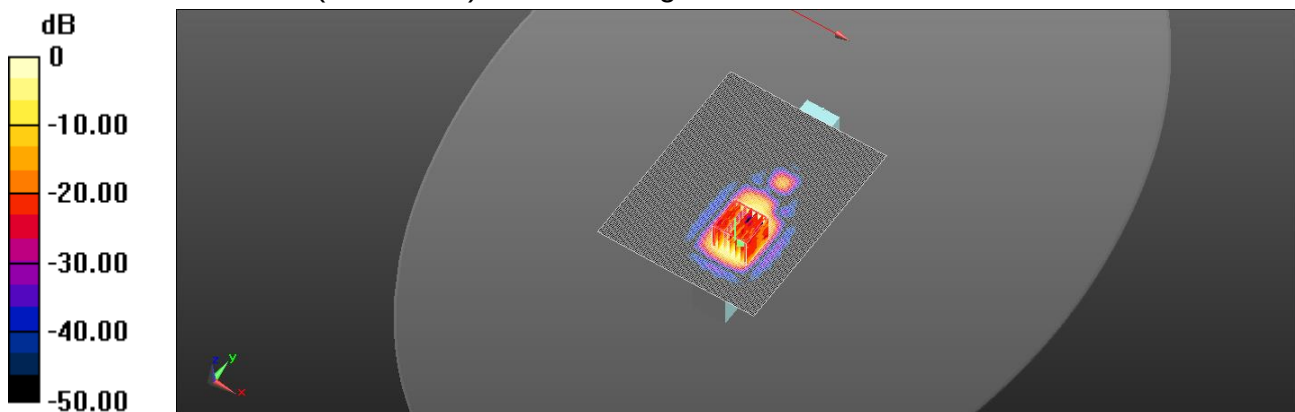
Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.281 W/kg; SAR(10 g) = 0.073 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 54.5%

Maximum value of SAR (measured) = 0.702 W/kg



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Date: 2025/9/18

ID: 004

Report No. :TESA2508000624ES

WLAN 802.11n(40M) 5.6G_Body_Left Edge_CH 134_0mm_Ant 1

Communication System: WLAN; Frequency: 5670 MHz;Duty Cycle: 1:1.126

Medium parameters used: $f = 5670$ MHz; $\sigma = 4.938$ S/m; $\epsilon_r = 35.505$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.03, 5, 4.47) @ 5670 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.19 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.872 V/m; Power Drift = 0.06 dB

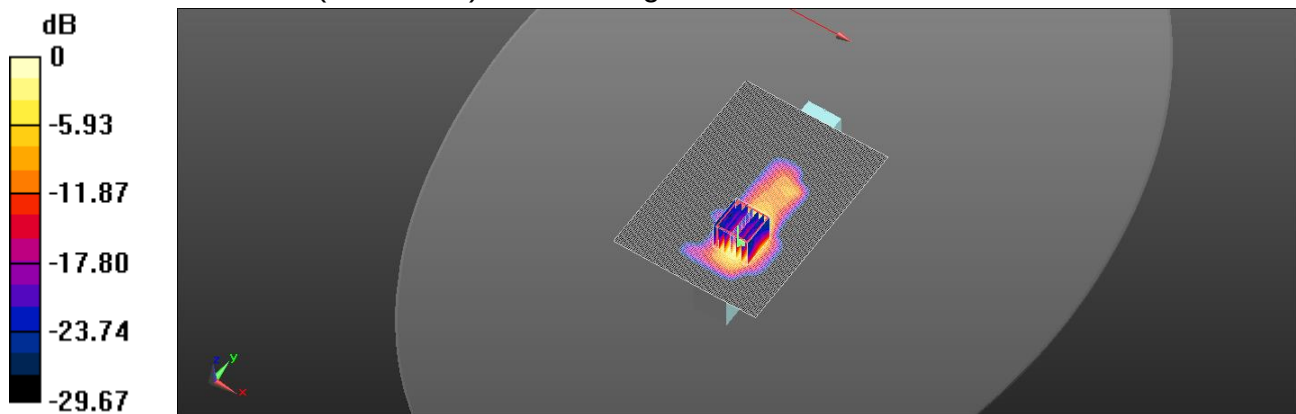
Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.233 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 1.76 W/kg



0 dB = 1.76 W/kg = 2.46 dBW/kg

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Date: 2025/9/18

ID: 005

Report No. :TESA2508000624ES

WLAN 802.11a 5.8G_Body_Left Edge_CH 149_0mm_Ant 1

Communication System: WLAN; Frequency: 5745 MHz; Duty Cycle: 1:1.128

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.36 \text{ S/m}$; $\epsilon_r = 36.343$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.11, 5.09, 4.55) @ 5745 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.66 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.21 V/m; Power Drift = -0.05 dB

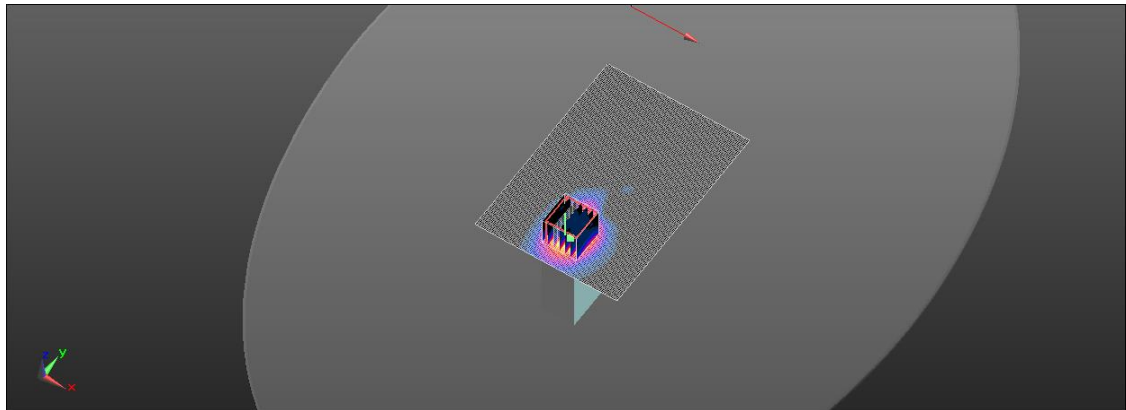
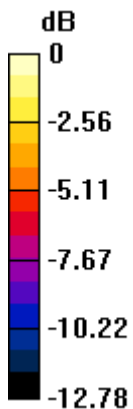
Peak SAR (extrapolated) = 2.92 W/kg

SAR(1 g) = 0.643 W/kg; SAR(10 g) = 0.265 W/kg

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 1.44 W/kg



0 dB = 1.44 W/kg = 1.58 dBW/kg

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Date: 2025/9/16

ID: 006

Report No. :TESA2508000624ES

BLE_1M_Body_Left Edge_CH 39_0mm_Ant 2

Communication System: Bluetooth Low Energy; Frequency: 2480 MHz;Duty Cycle: 1:1.606

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.899 \text{ S/m}$; $\epsilon_r = 40.143$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.01, 6.98, 6.24) @ 2480 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.109 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.789 V/m; Power Drift = 0.08 dB

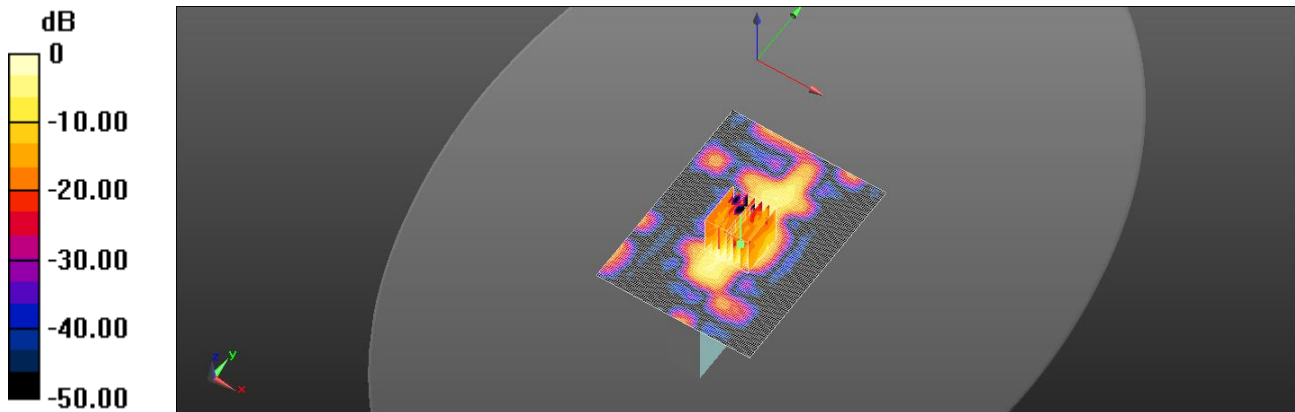
Peak SAR (extrapolated) = 0.136 W/kg

SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.018 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 42.5%

Maximum value of SAR (measured) = 0.0955 W/kg



0 dB = 0.0955 W/kg = -10.20 dBW/kg

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Date: 2025/9/16

ID: 007

Report No. :TESA2508000624ES

WLAN 802.11b_Limbs_Left Edge_CH 11_0mm_Ant 1

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.125

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.889$ S/m; $\epsilon_r = 40.171$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.01, 6.98, 6.24) @ 2462 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.766 V/m; Power Drift = -0.06 dB

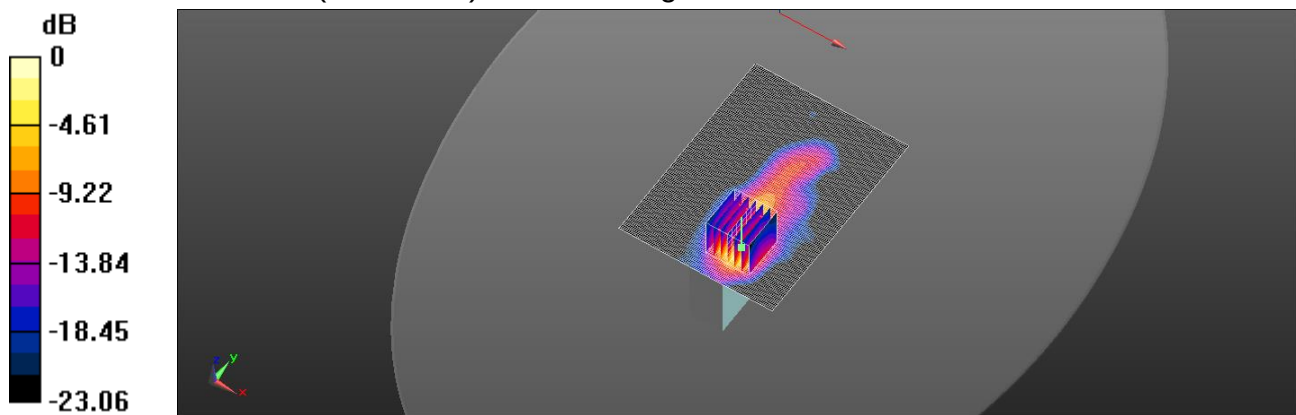
Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.526 W/kg; SAR(10 g) = 0.220 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 0.890 W/kg



0 dB = 0.890 W/kg = -0.51 dBW/kg

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Date: 2025/9/17

ID: 008

Report No. :TESA2508000624ES

WLAN 802.11a 5.2G_Limbs_Left Edge_CH 36_0mm_Ant 1

Communication System: WLAN; Frequency: 5180 MHz; Duty Cycle: 1:1.128

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.776 \text{ S/m}$; $\epsilon_r = 36.99$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.5, 5.48, 4.9) @ 5180 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.802 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.621 V/m; Power Drift = 0.04 dB

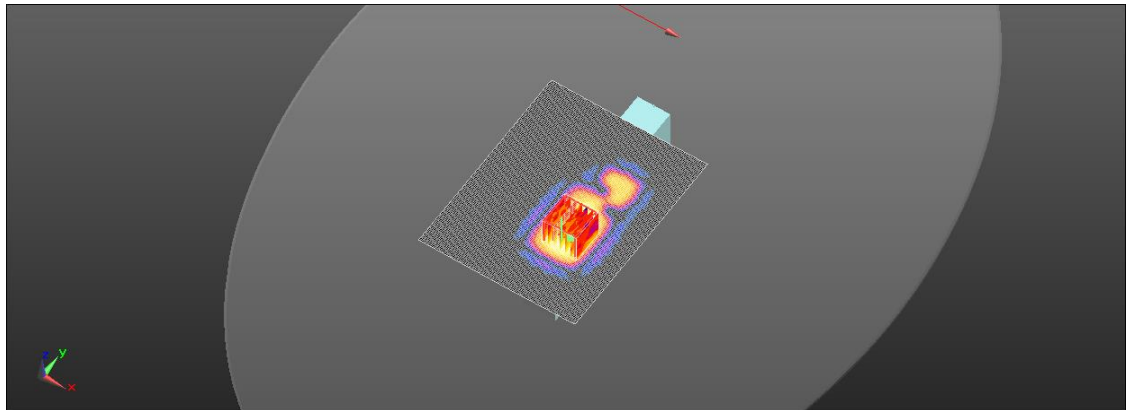
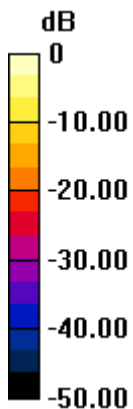
Peak SAR (extrapolated) = 2.40 W/kg

SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.078 W/kg

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 0.690 W/kg



0 dB = 0.690 W/kg = -1.61 dBW/kg

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Date: 2025/9/17

ID: 009

Report No. :TESA2508000624ES

WLAN 802.11a 5.3G_Limbs_Left Edge_CH 64_0mm_Ant 1

Communication System: WLAN; Frequency: 5320 MHz;Duty Cycle: 1:1.128

Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 4.93 \text{ S/m}$; $\epsilon_r = 36.843$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.5, 5.48, 4.9) @ 5320 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.978 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.845 V/m; Power Drift = 0.06 dB

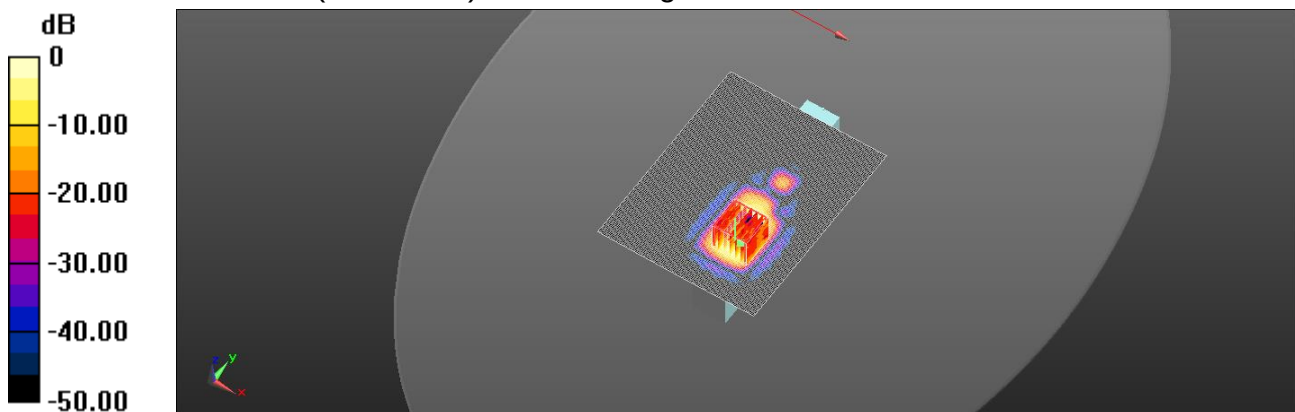
Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.281 W/kg; SAR(10 g) = 0.073 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 54.5%

Maximum value of SAR (measured) = 0.702 W/kg



0 dB = 0.702 W/kg = -1.54 dBW/kg

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Date: 2025/9/18

ID: 010

Report No. :TESA2508000624ES

WLAN 802.11n(40M) 5.6G_Limbs_Left Edge_CH 134_0mm_Ant 1

Communication System: WLAN; Frequency: 5670 MHz;Duty Cycle: 1:1.126

Medium parameters used: $f = 5670$ MHz; $\sigma = 4.938$ S/m; $\epsilon_r = 35.505$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.03, 5, 4.47) @ 5670 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.19 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.872 V/m; Power Drift = 0.06 dB

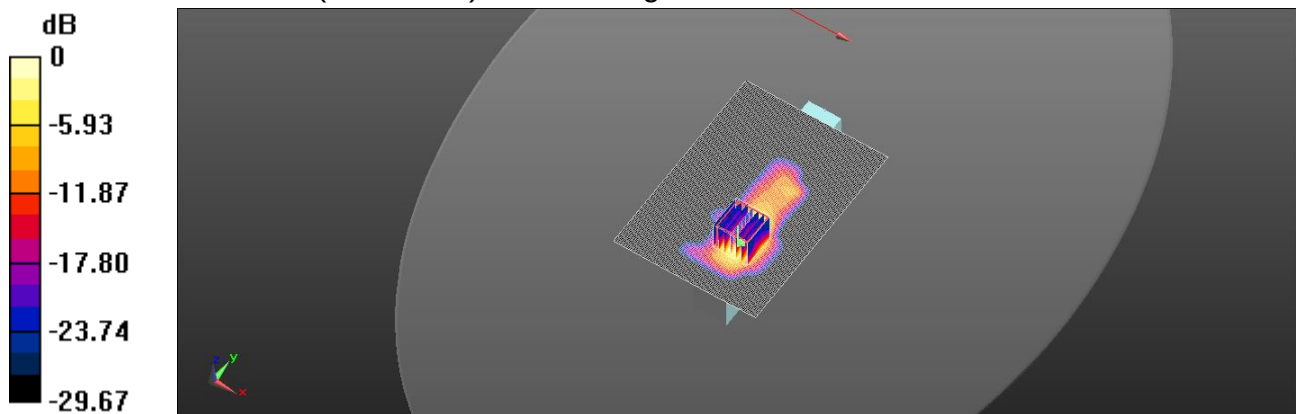
Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.233 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 1.76 W/kg



0 dB = 1.76 W/kg = 2.46 dBW/kg

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Date: 2025/9/18

ID: 011

Report No. :TESA2508000624ES

WLAN 802.11a 5.8G_Limbs_Left Edge_CH 149_0mm_Ant 1

Communication System: WLAN; Frequency: 5745 MHz;Duty Cycle: 1:1.128

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.36 \text{ S/m}$; $\epsilon_r = 36.343$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.11, 5.09, 4.55) @ 5745 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.66 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.21 V/m; Power Drift = -0.05 dB

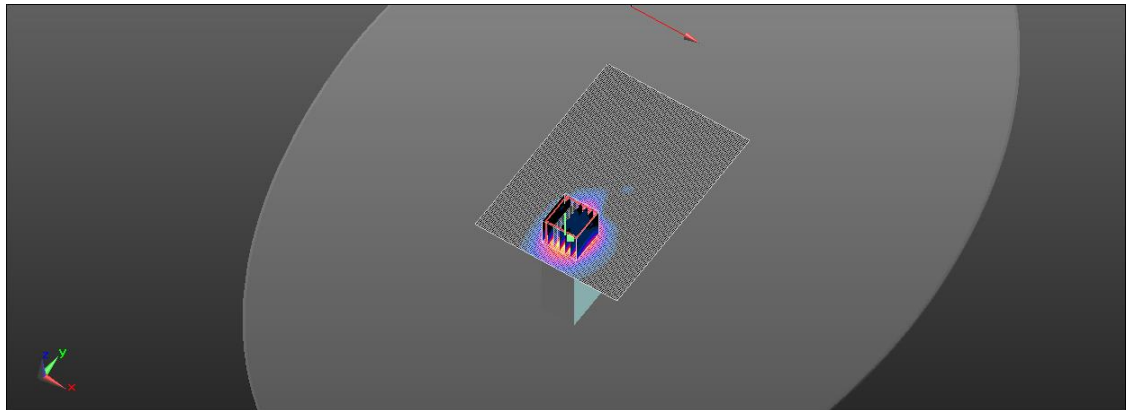
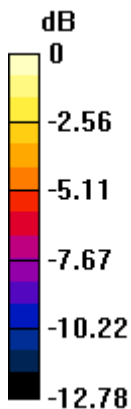
Peak SAR (extrapolated) = 2.92 W/kg

SAR(1 g) = 0.643 W/kg; SAR(10 g) = 0.265 W/kg

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 1.44 W/kg



0 dB = 1.44 W/kg = 1.58 dBW/kg

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Date: 2025/9/16

ID: 012

Report No. :TESA2508000624ES

BLE_1M_Limbs_Left Edge_CH 39_0mm_Ant 2

Communication System: Bluetooth Low Energy; Frequency: 2480 MHz;Duty Cycle: 1:1.606

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.899 \text{ S/m}$; $\epsilon_r = 40.143$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.01, 6.98, 6.24) @ 2480 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.109 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.789 V/m; Power Drift = 0.08 dB

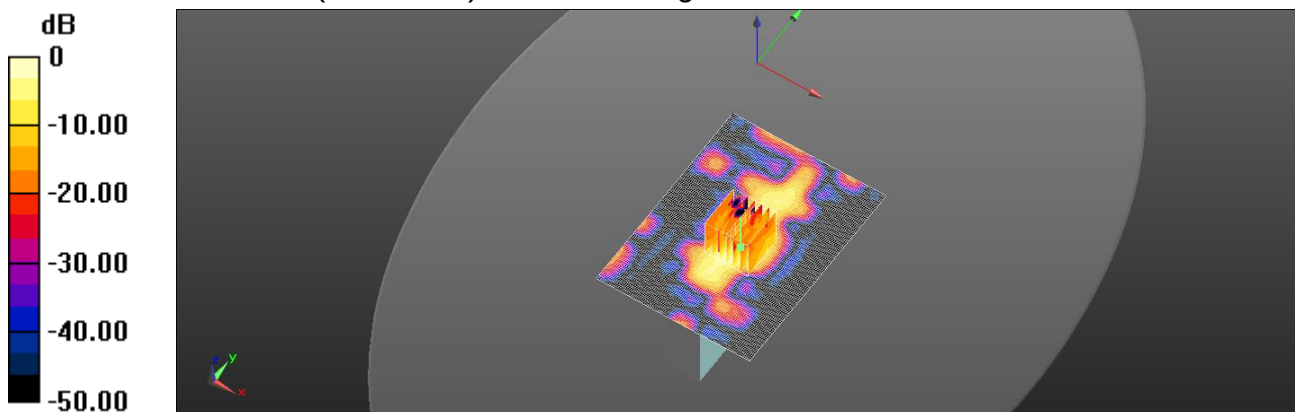
Peak SAR (extrapolated) = 0.136 W/kg

SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.018 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 42.5%

Maximum value of SAR (measured) = 0.0955 W/kg



0 dB = 0.0955 W/kg = -10.20 dBW/kg

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12 SAR SYSTEM CHECK RESULTS

Date: 2025/9/16

Report No. :TESA2508000624ES

Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.862$ S/m; $\epsilon_r = 40.179$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.01, 6.98, 6.24) @ 2450 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 17.5 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.05 V/m; Power Drift = 0.05 dB

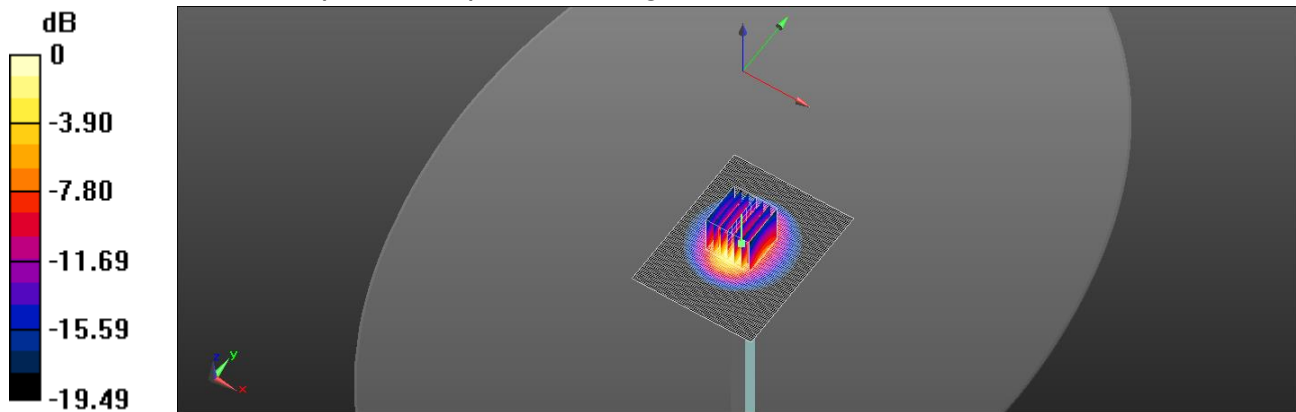
Peak SAR (extrapolated) = 21.6 W/kg

SAR(1 g) = 12 W/kg; SAR(10 g) = 5.99 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 17.2 W/kg



0 dB = 17.2 W/kg = 12.36 dBW/kg

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Date: 2025/9/17

Report No. :TESA2508000624ES

Dipole 5250 MHz_SN:1349

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.841 \text{ S/m}$; $\epsilon_r = 36.912$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.5, 5.48, 4.9) @ 5250 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 17.6 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 71.89 V/m; Power Drift = 0.06 dB

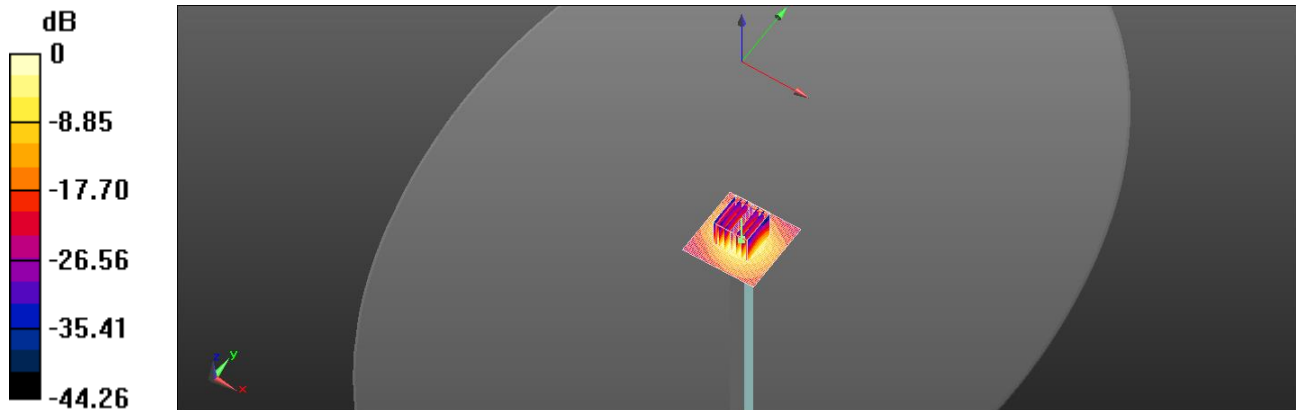
Peak SAR (extrapolated) = 35.4 W/kg

SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.25 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 16.7 W/kg



0 dB = 16.7 W/kg = 12.23 dBW/kg

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Date: 2025/9/18

Report No. :TESA2508000624ES

Dipole 5600 MHz_SN:1349

Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.222 \text{ S/m}$; $\epsilon_r = 36.513$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.03, 5, 4.47) @ 5600 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 23.7 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 75.15 V/m; Power Drift = -0.06 dB

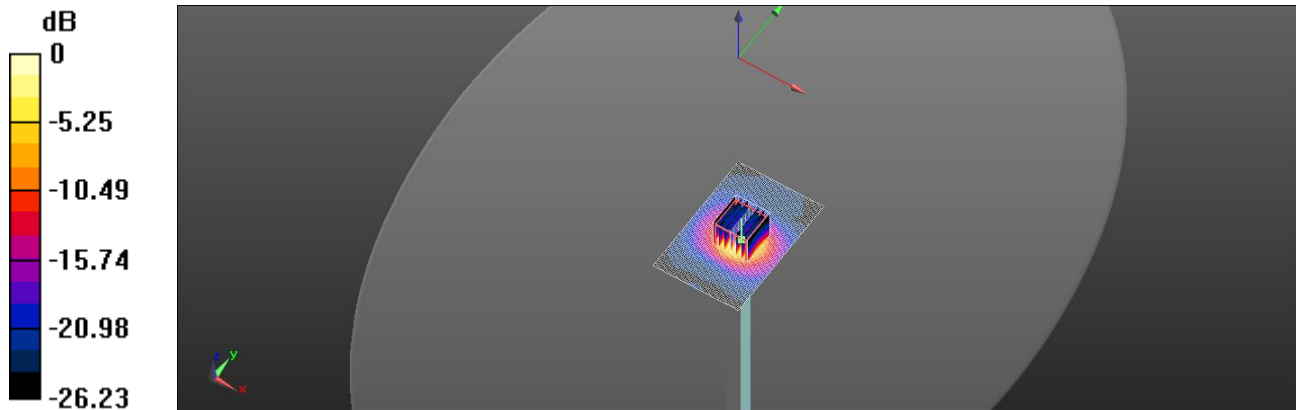
Peak SAR (extrapolated) = 39.8 W/kg

SAR(1 g) = 8.92 W/kg; SAR(10 g) = 2.51 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 22.5 W/kg



0 dB = 22.5 W/kg = 13.52 dBW/kg

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Date: 2025/9/18

Report No. :TESA2508000624ES

Dipole 5750 MHz_SN:1349

Communication System: CW; Frequency: 5750 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.374 \text{ S/m}$; $\epsilon_r = 36.332$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.11, 5.09, 4.55) @ 5750 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 20.0 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 68.99 V/m; Power Drift = -0.08 dB

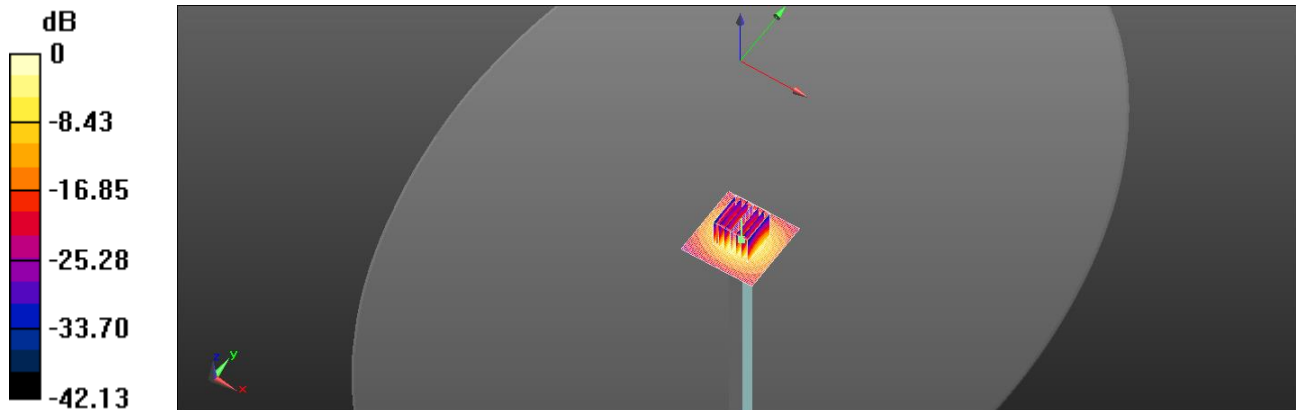
Peak SAR (extrapolated) = 36.3 W/kg

SAR(1 g) = 8.52 W/kg; SAR(10 g) = 2.44 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 17.5 W/kg



0 dB = 17.5 W/kg = 12.43 dBW/kg

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Date: 2025/9/18

Report No. :TESA2508000624ES

Dipole 5850 MHz_SN:1349

Communication System: CW; Frequency: 5850 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5850 \text{ MHz}$; $\sigma = 5.475 \text{ S/m}$; $\epsilon_r = 36.234$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(4.99, 4.97, 4.44) @ 5850 MHz; Calibrated: 2025/07/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2025/01/20
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 22.7 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 69.83 V/m; Power Drift = -0.11 dB

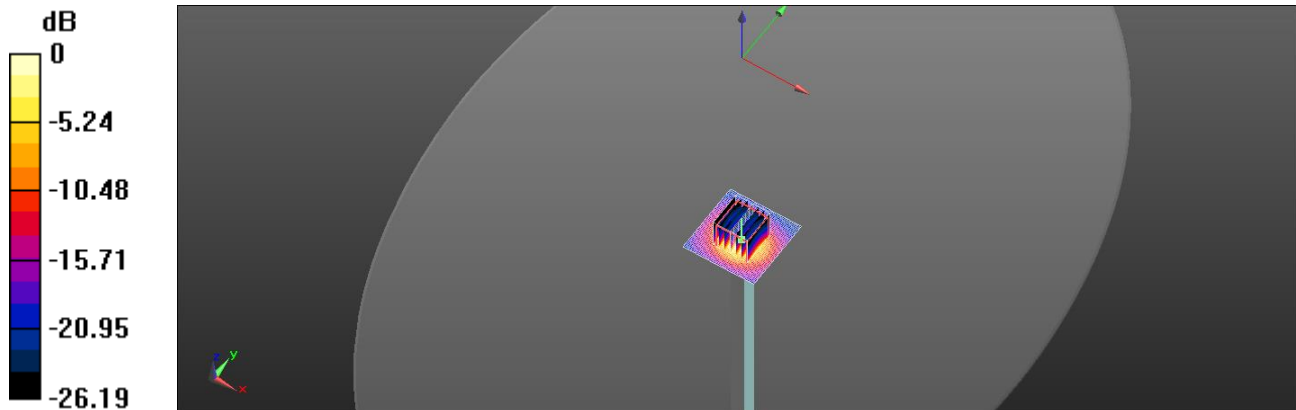
Peak SAR (extrapolated) = 38.9 W/kg

SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.34 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 49.3%

Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 20.7 W/kg = 13.16 dBW/kg

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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

13.4 SAR_Appendix D Dipole Extended Calibration Verification

- End of report -

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