

FCC 2.1093 SAR Test Report

for

MilDef Crete Inc.

**7F, No.250, Sec.3, Pei Shen Rd., Shen Keng District,
New Taipei City Taiwan R.O.C.**

Product Name : Tablet
Model Name : DR15
Brand : MilDef Crete
FCC ID : IR5DR15



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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APPENDIX A TEST GRAPH RESULT
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TEST REPORT

Applicant : MilDef Crete Inc.

Manufacturer : MilDef Crete Inc.

EUT Description

(1) Product : Tablet

(2) Model : DR15

(3) Brand : MilDef Crete

(4) Power Supply : DC 19V, 4.74A

Applicable Standards:

Title 47FCC CFR, Part 2 §2.1093

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2026. 04. 08

Reviewed by:

Annie Yu

(Annie Yu/Section Manager)

Approved by:

Johnny Hsueh

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1. REVISION RECORD OF TEST REPORT

Edition No.	Issued Date	Revision Summary	Report Number
0	2026. 04. 08	Original Report	EM-SR260014

2. SUMMARY OF TEST RESULTS

● Test Position: Front

Highest Transmission SAR	SAR _{10g} (W/kg)	Limit
WLAN 2.4G	0.645 W/kg	4.0 W/kg
BT	0.073 W/kg	4.0 W/kg
WLAN 5G	0.249 W/kg	4.0 W/kg

Highest Simultaneous Transmission SAR	SAR _{10g} (W/kg)	Total SAR _{10g}
WLAN 5G (5795MHz) ANT 1 (Front)	0.249	0.357 W/kg
WLAN 5G (5795MHz) ANT 2 (Front)	0.035	
BT (2441MHz) ANT 1 (Front)	0.073	

Note: 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)

● Test Position: Left/Right/Top/Back

Highest Transmission SAR	SAR _{1g} (W/kg)	Limit
WLAN 2.4G	0.997 W/kg	1.6 W/kg
BT	0.031 W/kg	1.6 W/kg
WLAN 5G	0.674 W/kg	1.6 W/kg

Highest Simultaneous Transmission SAR	SAR _{1g} (W/kg)	Total Body SAR _{1g}
WLAN 2.4G (2462MHz) ANT 1 (Back) + WLAN 2.4G (2462MHz) ANT 2 (Back)	0.997 0.888	1.885 W/kg
Note: SPLSR=0.02		



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3. GENERAL INFORMATION

The EUT's information described in this section are all provided by the applicant.

3.1. Description of Application

Applicant	MilDef Crete Inc. 7F, No.250, Sec.3, Pei Shen Rd., Shen Keng District, New Taipei City Taiwan R.O.C.
Manufacturer	MilDef Crete Inc. 7F, No.250, Sec.3, Pei Shen Rd., Shen Keng District, New Taipei City Taiwan R.O.C.
Product	Tablet
Model	DR15
Brand	MilDef Crete

3.2. Description of EUT

Test Model	DR15		
Serial Number	N/A		
Power Rating	DC 19V, 4.74A		
Software Version	BIOS version:2026/02/09		
RF Features	WLAN:802.11 a/b/g/n/ac/ax, Bluetooth: BT and BLE		
Transmit Type	2.4 GHz Bands		
	802.11b	1T1R	
	802.11g	1T1R	
	802.11n-HT20/40	2T2R	
	802.11ax-HE20/40	2T2R	
	BT/BLE	1T1R	
	U-NII Bands		
	802.11a	1T1R	
	802.11n-HT20/40	2T2R	
	802.11ac-VHT20/40/80	2T2R	
	802.11ax-HE20/40/80	2T2R	
Sample Status	Trial sample		
Test Sample	Sample No.	Test Item	Firmware
	01	SAR	N/A
Date of Receipt	2026. 01. 22		
Date of Test	2026. 02. 26 ~ 03. 03		
Interface Ports of EUT	• One DC Port • One COM Port • One Type C Port • One LAN Port • Two USB Ports • One Card Slot		
Accessories Supplied	• AC Adapter		

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information...etc are provided by customer.

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3.3. Reference Test Guidance

IEEE 1528-2013

IEC/IEEE 62209-1528:2020

KDB 447498 D01 General RF Exposure Guidance v06

KDB 447498 D04 Interim General RF Exposure Guidance v01

KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04

KDB 616217 D04 SAR for EUT and tablets v01r02

KDB 248227 D01 802.11 Wi-Fi SAR v02r02

3.4. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)
1.	G980-000439 (ANT 1)	MilDef Crete Inc.	PIFA	2400~2500	-0.37
				5150~5850	-3.03
2.	G980-000431 (ANT 2)	MilDef Crete Inc.	PIFA	2400~2500	0.55
				5150~5850	1.98

3.5. EUT Specifications Assessed in Current Report

2.4GHz		
Mode	Fundamental Range (MHz)	Channel Number
802.11b	2412-2462	11
802.11g		
802.11n-HT20/ 802.11ax-HE20		
802.11n-HT40/ 802.11ax-HE40	2422-2452	7
Bluetooth	2402-2480	79
BLE	2402-2480	40

5GHz			
Mode	U-NII Band	Fundamental Range (MHz)	Channel Number
802.11a	1	5180-5240	4
	3	5745-5825	5
802.11n-HT20/ 802.11ac-VHT20/ 802.11ax-HE20	1	5180-5240	4
	3	5745-5825	5
802.11n-HT40/ 802.11ac-VHT40/ 802.11ax-HE40	1	5190-5230	2
	3	5755-5795	2
802.11ax-HE80	1	5210	1
	3	5775	1

Mode	Modulation	Data Rate (Mbps)
802.11b	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11a	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11ac-VHT20	OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)	Up to 173.3
802.11ac-VHT40		Up to 400
802.11ac-VHT80		Up to 866.7
802.11ax-HE20	OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)	Up to 287
802.11ax-HE40		Up to 574
802.11ax-HE80		Up to 1201
Bluetooth	FHSS (GFSK, $\pi/4$ DQPSK, 8-DPSK)	Up to 3
BLE	GFSK	Up to 1

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3.6. Description of Key Components

Item	Supplier	Model / Type	Character
AC Adapter	ADAPTER TECH	ATS090-P190	---
WLAN Combo Card	Intel	AX210NGWG	Intel Wi-Fi 6E AX210 (Gig+), 2230, 2x2 AX R2 (6GHz)+BT FCC ID: PD9AX210NG IC: 1000M-AX210NG
WLAN Combo Antenna	MilDef Crete Inc.	G980-000439	ANT 1
		G980-000431	ANT 2

3.7. Test Environment

Ambient conditions in the laboratory:

Item	Require	Actual
Temperature (°C)	18-25	22 ± 2
Humidity (%RH)	30-70	48 ± 2

3.8. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website: www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is: TW1724 (1) SAR Room

3.9. Measurement Uncertainty

DASY5 Uncertainty								
According to IEEE 1528-2013 and IEC 62209-1/2016 (0.3 - 6 GHz range)								
Error Description	Uncert. value	Prob. Dist.	Div.	(ci) 1g	(ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(vi) Veff
Measurement System								
Probe Calibration	±6.0%	N	1	1	1	±6.0%	±6.0%	∞
Axial Isotropy	±4.7%	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	$\sqrt{3}$	1	1	±0.2%	±0.2%	∞
Probe Positioning	±2.9%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Test Sample Related								
Device Positioning	±2.9%	N	1	1	1	±2.9%	±2.9%	145
Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%	5
Power Drift	±5.0%	R	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞
Phantom and Setup								
Phantom Uncertainty	±4.0%	R	$\sqrt{3}$	1	1	±2.3%	±2.3%	∞
Liquid Conductivity (target)	±5.0%	R	$\sqrt{3}$	0.64	0.43	±1.8%	±1.2%	∞
Liquid Conductivity (meas.)	±2.5%	N	1	0.64	0.43	±1.6%	±1.1%	∞
Liquid Permittivity (target)	±5.0%	R	$\sqrt{3}$	0.6	0.49	±1.7%	±1.4%	∞
Liquid Permittivity (meas.)	±2.5%	N	1	0.6	0.49	±1.5%	±1.2%	∞
Combined Std. Uncertainty						±11%	±10.8%	387
Expanded STD Uncertainty						±22%	±21.5%	

DASY5 Uncertainty According to IEC 62209-2/2010 (30 MHz - 6 GHz range)								
Error Description	Uncert. value	Prob. Dist.	Div.	(ci) 1g	(ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(vi) V _{eff}
Measurement System								
Probe Calibration	±6.0%	N	1	1	1	±6.0%	±6.0%	∞
Axial Isotropy	±4.7%	R	√3	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	√3	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Readout Electronic	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	√3	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	√3	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	√3	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	√3	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	√3	1	1	±0.2%	±0.2%	∞
Probe Positioning	±2.9%	R	√3	1	1	±1.7%	±1.7%	∞
Modulation Response	±2.5%	R	√3	1	1	±1.45 %	±1.45 %	∞
Post-processing	±3.8%	R	√3	1	1	±2.2%	±2.2%	∞
Test Sample Related								
Test Sample Positioning	±2.9%	N	1	1	1	±2.9%	±2.9%	145
Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%	5
Power Drift	±5.0%	R	√3	1	1	±2.9%	±2.9%	∞
Power Scaling	±0.0%	R	√3	1	1	±0.0%	±0.0%	∞
Phantom and Setup								
Phantom Uncertainty	±4.5%	R	√3	1	1	±2.4%	±2.4%	∞
SAR correction	±1.9%	R	√3	1	0.84	±1.9%	±1.9%	∞
Liquid Conductivity (target)	±5.0%	R	√3	0.64	0.43	±1.8%	±1.2%	∞
Liquid Conductivity (mea.)DAK	±2.5%	R	√3	0.64	0.43	±0.9%	±0.6%	∞
Liquid Permittivity (target)	±5.0%	R	√3	0.6	0.49	±1.7%	±1.4%	∞
Liquid Permittivity(meas.)DAK	±2.5%	R	√3	0.6	0.49	±0.9%	±0.7%	∞
Combined Std. Uncertainty						±11.0%	±10.9%	387
Expanded STD Uncertainty						±22.1%	±21.8%	



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4. MEASUREMENT EQUIPMENT LIST

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Stäubli Robot TX90 XL	Stäubli	TX90	F12/5K9SA1/A101	N.C.R.	N.C.R.
2.	Controller	SPEAG	CS8c	N/A	N.C.R.	N.C.R.
3.	SAM Twin Phantom	SPEAG	N/A	1706	N.C.R.	N.C.R.
4.	ELI V5.0 Phantom	SPEAG	N/A	1170	N.C.R.	N.C.R.
5.	Device Holder	SPEAG	N/A	N/A	N.C.R.	N.C.R.
6.	Data Acquisition Electronic	SPEAG	DAE4	1337	2025.03.21	1 Year
7.	E-Field Probe	SPEAG	EX3DV4	3855	2025.09.25	1 Year
8.	ENA Network Analyzer	Agilent	E5071C-480	MY46214331	2025.09.17	1 Year
9.	Signal Generator	Agilent	N5182B	MY53050409	2025.12.11	1 Year
10.	Power Meter	Agilent	ML2487A	MY52180007	2025.09.25	1 Year
11.	Power Sensor	Agilent	N8481	MY52080006	2025.09.25	1 Year
12.	Dipole Antenna	SPEAG	D2450V2	888	2024.09.13	3 Years
13.	Dipole Antenna	SPEAG	D5GHzV2	1124	2024.09.17	3 Years
14.	Test Software	Speag	DASY52 52.10.4	N/A	N.C.R.	N.C.R.

5. SAR MEASUREMENT SYSTEM

5.1. Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be related to the electrical field in the tissue by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

5.2. SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC.

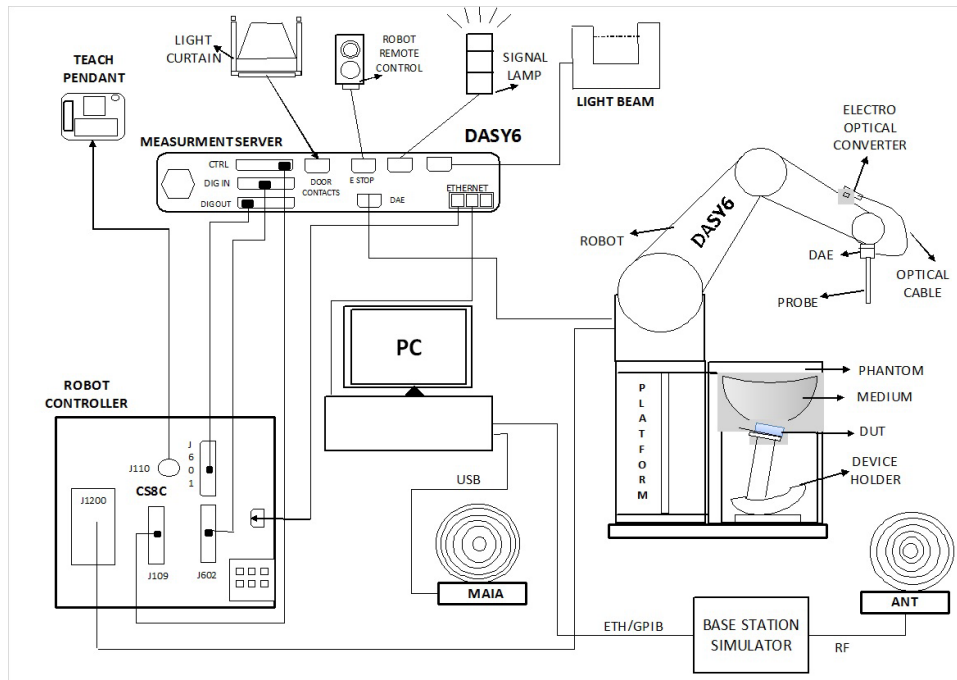


Fig-3.1 DASY6 System Setup

5.2.1. Robot

The DASY6 system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)



5.2.2. Probes

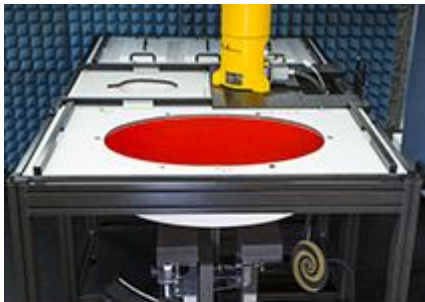
Model	EX3DV4	
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
DynamicRange	10 μ W/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

5.2.3. Data Acquisition Electronics (DAE)

Model	DAE4	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
MeasurementRange	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)	
Input Offset Voltage	$< 5\mu$ V (with auto zero)	
Input Bias Current	< 50 fA	
Dimensions	60 x 60 x 68 mm	

5.2.4. Phantom

Model	Twin SAM	 
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx. 25 liters	

Model	ELI	 
Construction	Phantom 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.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	

5.2.5. Device Holder

Model	Mounting Device	
Construction	In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat).	
Material	POM	

Model	EUT Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner.	
Material	POM, Acrylic glass, Foam	

5.2.6. Reference Dipole

Model	System Validation Dipoles	
Construction	Symmetrical dipole with 1/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions.	
Frequency	750 MHz to 5800 MHz	
Return Loss	> 20 dB	
Power Capability	> 100 W ($f < 1\text{GHz}$), > 40 W ($f > 1\text{GHz}$)	

5.2.7. Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in Table-5.1.

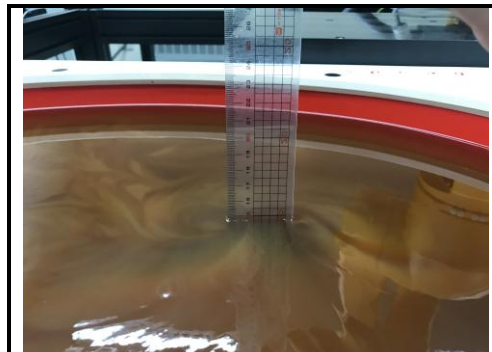


Photo of Liquid Height

The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528 and FCC OET 65 Supplement C Appendix C. For the body tissue simulating liquids, the dielectric properties are defined in FCC OET 65 Supplement C Appendix C. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using an Agilent 85070D Dielectric Probe Kit and an Agilent Network Analyzer.

Table-5.1 Targets of Tissue Simulating Liquid

Target Frequency [MHz]	Target Permittivity (ϵ_r)	Range of $\pm 5\%$	Target Conductivity σ [s/m]	Range of $\pm 5\%$
750	41.9	39.805 ~ 43.995	0.89	0.846 ~ 0.935
835	41.5	39.425 ~ 43.575	0.90	0.855 ~ 0.945
900	41.5	39.425 ~ 43.575	0.97	0.922 ~ 1.019
1450	40.5	38.475 ~ 42.525	1.20	1.140 ~ 1.260
1640	40.3	38.285 ~ 42.315	1.29	1.226 ~ 1.355
1750	40.1	38.095 ~ 42.105	1.37	1.302 ~ 1.439
1800	40.0	38.000 ~ 42.000	1.40	1.330 ~ 1.470
1900	40.0	38.000 ~ 42.000	1.40	1.330 ~ 1.470
2000	40.0	38.000 ~ 42.000	1.40	1.330 ~ 1.470
2300	39.5	37.525 ~ 41.475	1.67	1.587 ~ 1.754
2450	39.2	37.240 ~ 41.160	1.80	1.710 ~ 1.890
2600	39.0	37.050 ~ 40.950	1.96	1.862 ~ 2.058
3500	37.9	36.005 ~ 39.795	2.91	2.765 ~ 3.056
5200	36.0	34.200 ~ 37.800	4.66	4.427 ~ 4.893
5300	35.9	34.105 ~ 37.695	4.76	4.522 ~ 4.998
5500	35.6	33.820 ~ 37.380	4.96	4.712 ~ 5.208
5600	35.5	33.725 ~ 37.275	5.07	4.817 ~ 5.324
5800	35.3	33.535 ~ 37.065	5.27	5.007 ~ 5.534
6000	35.1	33.345 ~ 36.855	5.48	5.206 ~ 5.754
6500	34.5	32.775 ~ 36.225	6.07	5.767 ~ 6.374
7000	33.9	32.205 ~ 35.595	6.65	6.318 ~ 6.983

Table-5.2-1 Recipes of Tissue Simulating Liquid, 30MHz to 900MHz

Frequency (MHz)	30	50		144		450		835	900	
Recipe source number	3	3	2	2	3	2	4	2	2	4
Ingredients (% by weight)										
De-ionized water	48,30	48,30	53,53	55,12	48,30	48,53	56	50,36	50,31	56
Tween 20			44,70	43,31		49,51		48,39	48,34	
Oxidized mineral oil							44			44
Diethyleneglycol monohexylether										
Triton X-100										
Diacetin	50,00	50,00			50,00					
DGBE										
NaCl	1,60	1,60	1,77	1,57	1,60	1,96		1,25	1,35	
Additives and salt	0,10	0,10			0,10					
Measured temperature dependence										
Temp. (°C)			21	21		21	20	21	21	20
$\epsilon_{\text{liquid temp. unc.}}$ (%)	0,8	0,1			0,1	0,1		0,04	0,04	
$\sigma_{\text{liquid temp. unc.}}$ (%)	2,8	2,8			2,6	4,2		1,6	1,6	

Table-5.2-2 Recipes of Tissue Simulating Liquid, 1800MHz to 10000MHz

Frequency (MHz)	1 800		2 450	4 000	5 000	5 200	5 800	6 000	8 000	10 000
Recipe source number	2	4	4	4	4	1	1	4	5	5
Ingredients (% by weight)										
De-ionized water	54,23	56	56	56	56	65,53	65,53	56	67,8	66,0
Tween	45,27								31,1	33,0
Oxidized mineral oil		44	44	44	44			44		
Diethyleneglycol monohexylether						17,24	17,24			
Triton X-100						17,24	17,24			
Diacetin										
DGBE										
NaCl	0,50									
Additives and salt										
Measured temperature dependence										
Temp. (°C)	21	20	20	20	20	22	22	20	20	20
$\epsilon_{\text{liquid temp. unc.}}$ (%)	0,4					1,7	1,8			
$\sigma_{\text{liquid temp. unc.}}$ (%)	2,3					2,7	2,6			

NOTE 1 Multiple columns under a single frequency indicate optional recipes.

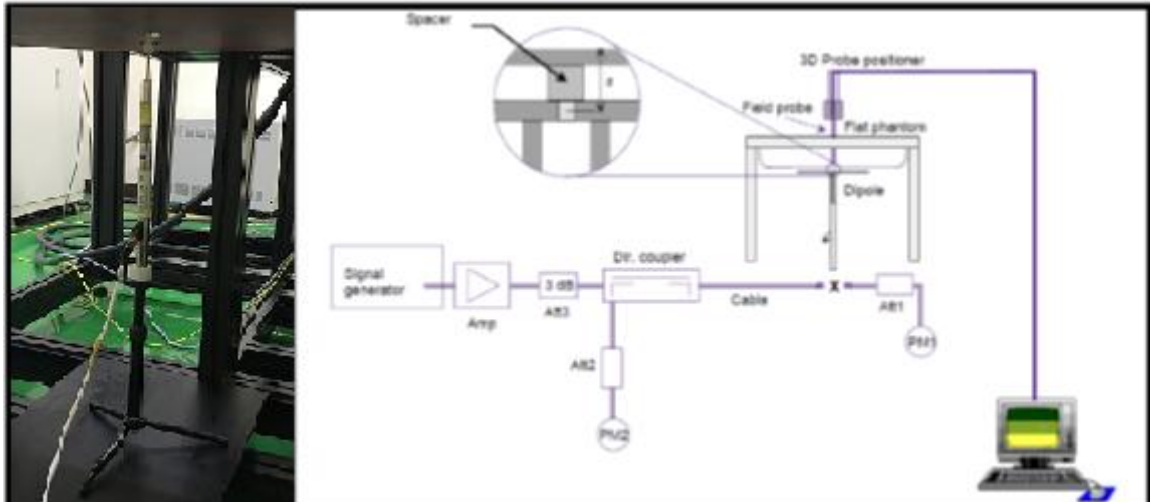
NOTE 2 Recipe source numbers: 1 verified by different labs, 2 Reference [59], 3 developed by IT'IS Foundation, 4 developed by IT'IS Foundation, 5 Reference [60].

NOTE 3 The values of $\epsilon_{\text{liquid temp. unc.}}$ and $\sigma_{\text{liquid temp. unc.}}$ are liquid temperature uncertainties described in O.9.6, based on measurements of the applicable liquid recipes given above. These are not part of the original publications but have been subsequently developed by the project team.

NOTE 4 The recipes at 8 000 MHz and 10 000 MHz are sufficiently broadband that they cover the frequency range of 6 000 MHz to 10 000 MHz within a tolerance of ± 10 % for permittivity and conductivity.

5.3. SAR System Verification

The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.



The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The power meter PM1 measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (250 mW is used for 700 MHz to 3 GHz, 100 mW is used for 3.5 GHz to 6 GHz) at the dipole connector and the power meter PM2 is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter PM2.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

5.3.1. SAR System Verification Result

Dipole Kit: D2450V2									
Test Date: 2026. 02. 26					Liquid Temp. [°C]: 21.0				
Frequency [MHz]	1g SAR				10g SAR				
2450MHz	Zoom Scan to 250mW	Normalize to 1W	Target Value Reference result $\pm 10\%$ window		Zoom Scan to 250mW	Normalize to 1W	Target Value Reference result $\pm 10\%$ window		
	13.2	52.80	51.8		6.13	24.52	24.2		
			46.62	to 56.98			21.78	to 26.62	

Dipole Kit: D5GHzV2									
Test Date: 2026. 03. 02					Liquid Temp. [°C]: 21.0				
Frequency [MHz]	1g SAR				10g SAR				
5200MHz	Zoom Scan to 100mW	Normalize to 1W	Target Value Reference result $\pm 10\%$ window		Zoom Scan to 100mW	Normalize to 1W	Target Value Reference result $\pm 10\%$ window		
	8.27	82.70	82.7		2.35	23.50	23.6		
			74.43	to 90.97			21.24	to 25.96	

Dipole Kit: D5GHzV2									
Test Date: 2026. 03. 03					Liquid Temp. [°C]: 21.0				
Frequency [MHz]	1g SAR				10g SAR				
5800MHz	Zoom Scan to 100mW	Normalize to 1W	Target Value Reference result $\pm 10\%$ window		Zoom Scan to 100mW	Normalize to 1W	Target Value Reference result $\pm 10\%$ window		
	7.57	75.70	78.0		2.16	21.60	22.60		
			70.20	to 85.80			20.34	to 24.86	

5.3.2. SAR System Check Data

Date: 2/26/2026

Test Laboratory: Audix_SAR Lab

System Check_H2450

DUT: D2450V2 - SN888

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.724$ S/m; $\epsilon_r = 39.919$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(6.56, 7.07, 7.4) @ 2450 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

P=250mW/Area Scan (6x6x1): Measurement grid: $dx=20$ mm, $dy=20$ mm

Maximum value of SAR (measured) = 10.3 W/kg

P=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 91.13 V/m; Power Drift = -0.12 dB

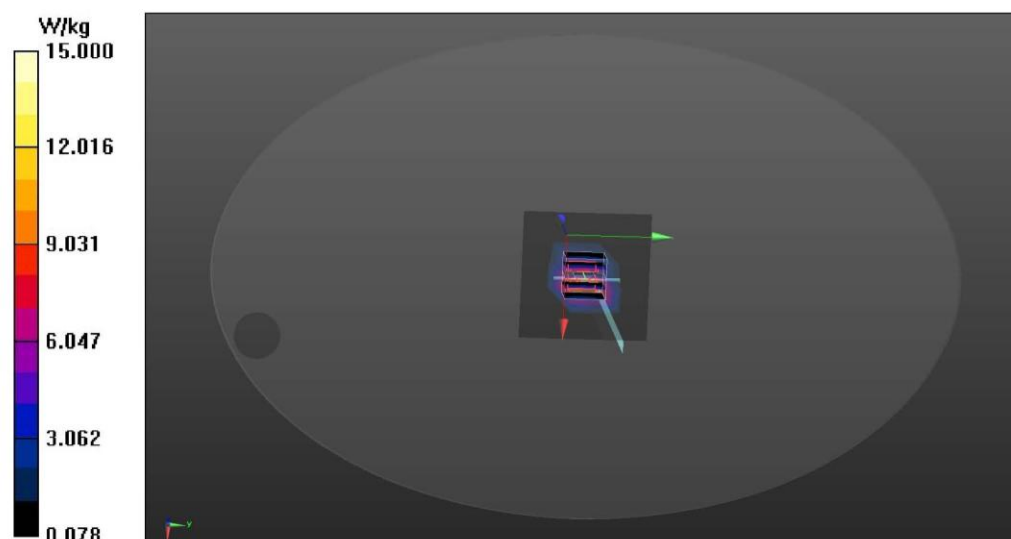
Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.13 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 45.6%

Maximum value of SAR (measured) = 15.0 W/kg



file:///C:/Users/USER/Desktop/report%20data%20250925/System%20Check_H2450-5/System%...

Date: 3/2/2026

Test Laboratory: Audix_SAR Lab

System Check_H5200**DUT: D5GHzV2 - SN1124**

Communication System: UID 0, CW (0); Frequency: 5200 MHz;Duty Cycle:1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.856$ S/m; $\epsilon_r = 36.111$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(5.16, 5.56, 5.82) @ 5200 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Pin=100mW/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.3 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 54.65 V/m; Power Drift = -0.15 dB

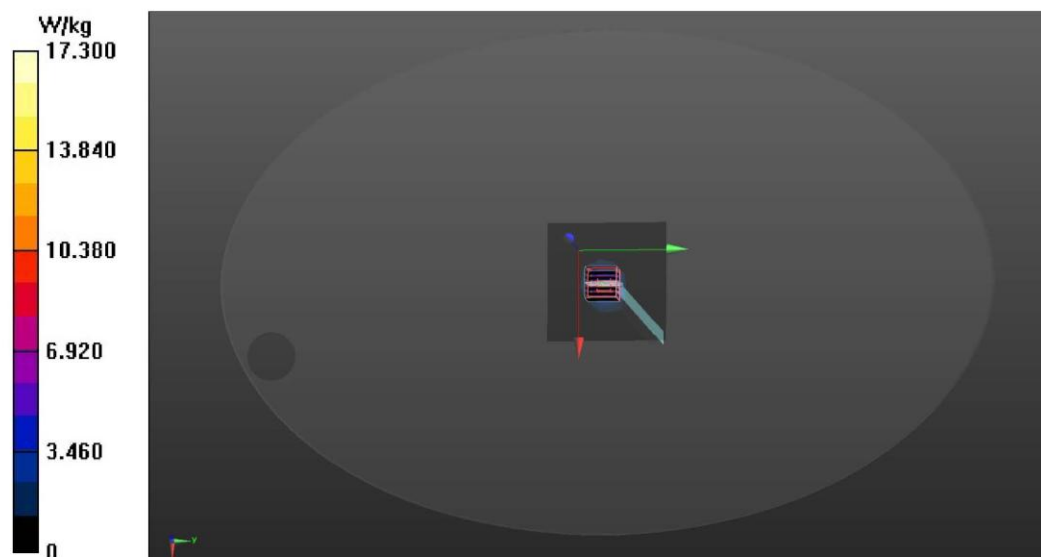
Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 8.27 W/kg; SAR(10 g) = 2.35 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 17.3 W/kg



file:///C:/Users/USER/Desktop/report%20data%20250925/System%20Check_H5200-1/System%...

Date: 3/3/2026

Test Laboratory: Audix_SAR Lab

System Check_H5800**DUT: D5GHzV2 - SN1124**

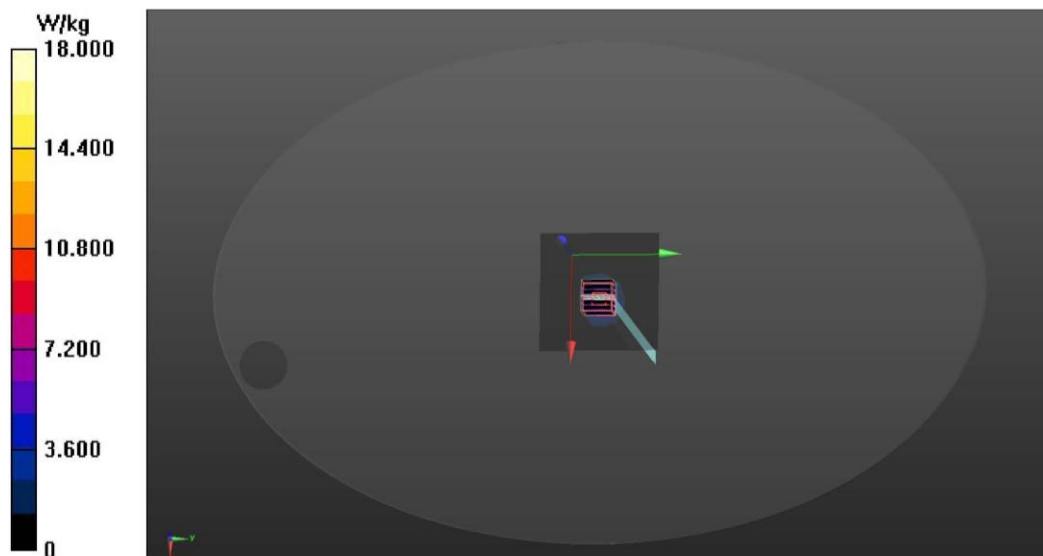
Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.524 \text{ S/m}$; $\epsilon_r = 35.045$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(4.53, 4.88, 5.11) @ 5800 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Pin=100mW/Area Scan (10x10x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 14.9 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 48.46 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 40.2 W/kg
SAR(1 g) = 7.57 W/kg; SAR(10 g) = 2.16 W/kg
Smallest distance from peaks to all points 3 dB below = 7.1 mm
Ratio of SAR at M2 to SAR at M1 = 49.9%
Maximum value of SAR (measured) = 18.0 W/kg



file:///C:/Users/USER/Desktop/report%20data%20250925/System%20Check_H5800-1/System%...

5.4. SAR Measurement Procedure

According to the SAR test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

The SAR measurement procedures for each of test conditions are as follows:

- (a) Make EUT to transmit maximum output power
- (b) Measure conducted output power through RF cable
- (c) Place the EUT in the specific position of phantom
- (d) Perform SAR testing steps on the DASY system
- (e) Record the SAR value

5.4.1. Area &Zoom Scan Procedure

According to IEC/IEEE 62209-1528, the resolution for Area and Zoom scan is specified in the table below.

Items	≤2 GHz	2-3 GHz	3-4 GHz	4-5 GHz	5-6 GHz
Area Scan (Δx , Δy)	≤15mm	≤12mm	≤12mm	≤10mm	≤10mm
Zoom Scan (Δx , Δy)	≤8mm	≤5mm	≤5mm	≤4mm	≤4mm
Zoom Scan (Δz)	≤5mm	≤5mm	≤4mm	≤3mm	≤2mm
Zoom Scan Volume	≥30mm	≥30mm	≥28mm	≥25mm	≥22mm

Note:

When zoom scan is required and report SAR is ≤ 1.4 W/kg, the zoom scan resolution of $\Delta x / \Delta y$ (2-3GHz: ≤ 8 mm, 3-4GHz: ≤ 7 mm, 4-6GHz: ≤ 5 mm) may be applied.

According to IEC/IEEE 62209-1528, if the zoom scan measured as specified in the preceding paragraphs complies with both of the following items, or if the peak spatial-average SAR is below 0.1 W/kg, no additional measurements are needed:

- (1) The smallest horizontal distance from the local SAR peaks to all points 3 dB below the SAR peak shall be larger than the horizontal grid steps in both x and y directions (Δx , Δy). This shall be checked for the measured zoom scan plane conformal to the phantom at the distance z_{M1} .
- (2) The ratio of the SAR at the second measured point (M2) to the SAR at the closest measured point (M1) at the x, y location of the measured maximum SAR value shall be at least 30%.

5.4.2. Volume Scan Procedure

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

5.4.3. Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

5.4.4. Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

5.4.5. SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

6. SAR MEASUREMENT EVALUATION

6.1. Test Configuration and EUT setting

The standalone SAR test exclusion shall be refer to FCC § 1.1307 (b)(3)(i)(B) SAR-Based exemption which device determined the distance from antenna to user/bystander. The formula is

$$\begin{aligned} P_{th} \text{ (mW)} &= ERP_{20cm} (d / 20)^x && \text{for distance } d \leq 20\text{cm} \\ P_{th} \text{ (mW)} &= ERP_{20cm} && \text{for distance } 20\text{cm} < d \leq 40\text{cm} \\ x &= -\log_{10} \left(\frac{60}{ERP_{20cm} \sqrt{f}} \right) \\ ERP_{20cm} \text{ (mW)} & \quad \begin{aligned} &0.3 \text{ GHz} \leq f < 1.5 \text{ GHz: } 2040f \\ &1.5 \text{ GHz} \leq f \leq 6 \text{ GHz: } 3060 \end{aligned} \end{aligned}$$

F = GHz

P_{th} (mW) = available maximum time-average power or effective radiated power, whichever is greater.

D = the separation distance (cm)

From KDB 616217 D04 section 4.2 to 4.3, The SAR exclusion threshold can be applied to KDB 447498 to determine if SAR necessary test.

Test program “DRTU Version: DRTU.08662.23.150.0” is used for enabling EUT BT or WLAN function under continues transmitting and choosing data rate/ channel and supported stable power rating.

6.2. EUT Testing Position

SAR-Based exemption table

Centre Frequency (MHz)	5	10	15	20	25	Distance(mm)
2450	3.000	10.000	22.000	38.000	59.000	Power(mW)
5200	2.000	6.000	15.000	26.000	42.000	
5500	1.000	6.000	14.000	26.000	41.000	
5800	1.000	6.000	14.000	25.000	40.000	
	30	35	40	45	50	Distance(mm)
2450	83.000	111.000	143.000	179.000	219.000	Power(mW)
5200	61.000	84.000	110.000	110.000	110.000	
5500	59.000	82.000	108.000	108.000	108.000	
5800	58.000	80.000	106.000	106.000	106.000	
	7	10	15	20	25	Distance(cm)
2450	415.000	819.000	1770.000	3060.000	3060.000	Power(mW)
5200	350.000	731.000	1689.000	3060.000	3060.000	
5500	345.000	725.000	1683.000	3060.000	3060.000	
5800	341.000	719.000	1678.000	3060.000	3060.000	
	30	33	35	37	40	Distance(cm)
2450	3060.000	3060.000	3060.000	3060.000	3060.000	Power(mW)
5200	3060.000	3060.000	3060.000	3060.000	3060.000	
5500	3060.000	3060.000	3060.000	3060.000	3060.000	
5800	3060.000	3060.000	3060.000	3060.000	3060.000	

The SAR testing required mode is listed as below.

● ANT 1

Antenna	Front Side	Top Side	Bottom Side	Left Side	Right Side	Back Side
WLAN	√			√		

According to SAR-Based exemption table, the EUT only need evaluate front side and right side.

● ANT 2

Antenna	Front Side	Top Side	Bottom Side	Left Side	Right Side	Back Side
WLAN	√	√			√	√

According to SAR-Based exemption table, the EUT only need evaluate front side, top side, right side and back side.

Note: Other SAR-based exemption side of minimum distance is 4cm for Ant1.

6.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using Agilent Dielectric Probe Kit and Agilent E5071C Vector Network Analyzer.

Body Tissue Simulate Measurement								
Frequency [MHz]	Description	Dielectric Parameters						Liquid Temp. [°C]
		σ [s/m]			ϵ_r			
2450MHz	Reference result ± 5% window	1.8			39.2			N/A
		1.710	to	1.890	37.240	to	41.160	
	2026. 02. 26	1.724			39.919			21.0

Body Tissue Simulate Measurement								
Frequency [MHz]	Description	Dielectric Parameters						Liquid Temp. [°C]
		σ[s/m]			ε _r			
5200MHz	Reference result ± 5% window	4.76			35.9			N/A
		4.522	to	4.998	34.105	to	37.695	
	2026. 03. 02	4.856			36.111			21.0

Body Tissue Simulate Measurement								
Frequency [MHz]	Description	Dielectric Parameters						Liquid Temp. [°C]
		σ[s/m]			ε _r			
5800MHz	Reference result ± 5% window	5.27			35.3			N/A
		5.007	to	5.534	33.535	to	37.065	
	2026. 03. 03	5.524			35.045			21.0

6.4. SAR Exposure Limits

SAR assessments have been made in line with the requirements of IEEE-1528, FCC Supplement C, and comply with ANSI/IEEE C95.1-1992 “Uncontrolled Environments” limits. These limits apply to a location which is deemed as “Uncontrolled Environment” which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

Limits for General Population/Uncontrolled Exposure (W/kg)

Type Exposure	Uncontrolled Environment Limit
Spatial Peak SAR (1g cube tissue for brain or body)	1.60 W/kg
Spatial Average SAR (whole body)	0.08 W/kg
Spatial Peak SAR (10g for hands, feet, ankles and wrist) ^{Note}	4.00 W/kg
Note: 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)	

6.5. Conducted Power Measurement

Note:

1. Per KDB 447498 D01 the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
Scale Factor = tune-up limit power (mW)/EUT Conducted power (mW), where tune-up limit is the maximum rated power among all production units.
Scale SAR(W/kg)= Measured SAR(W/kg)* Scaling Factor
2. Per KDB 447498 D01 for each exposure position, if the highest output channel reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
3. Per KDB 248227 D01, for OFDM transmission configuration in the 2.4G and 5G bands. An initial test configuration is determined by the highest maximum output power including tune-up tolerance. When multiple transmission modes(802.11a/g/n/ac/ax) have same maximum power, largest channel bandwidth, lowest order modulation and lowest data rate, lowest order 802.11 mode is selected.(i.e. a, g, n, ac then ax)
4. Per KDB 248227 D01, when the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specific dmaximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
5. Per KDB 248227 D01, U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.
6. Per KDB 248227 D01, When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested.
7. Pursuant section 2.8.1(2) KDB 865664 D01, when the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
8. Pursuant section 2.8.1(3) KDB 865664 D01, 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 ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit)
9. The simultaneous transmission SAR test exclusion is evaluated according to KDB 447498 D04 v01, Section E.1 (Estimated SAR) and Section E.2 (Using Standalone SAR Values). For antennas that qualify for standalone test exclusion, an estimated SAR value is calculated and summed with the reported SAR of other antenna to determine the aggregate SAR

6.5.1. For WLAN Function

Type of Network	Frequency (MHz)	Average Output Power (dBm)						SAR Test
		ANT 1			ANT 2			
		Average Power	Tune-Up Limit	Scale Factor	Average Power	Tune-Up Limit	Scale Factor	
802.11b	2412	18.96	19.5	---	18.09	19.5	---	No ^{NOTE2}
	2437	18.96	19.5	1.132	18.68	19.5	1.208	Yes
	2462	18.50	19.5	---	18.26	19.5	1.330	
802.11g	2412	15.99	16.5	---	15.07	16.5	---	No ^{NOTE6}
	2437	18.55	19.5	---	18.14	19.5	---	
	2462	15.26	16.0	---	13.98	16.0	---	

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Type of Network	Frequency (MHz)	RU Configuration	Average Output Power (dBm)						SAR Test
			ANT 1			ANT 2			
			Average Power	Tune-Up Limit	Scale Factor	Average Power	Tune-Up Limit	Scale Factor	
802.11ax-HE20	2412	26RU1	14.99	16	---	14.99	16	---	No ^{NOTE4,3}
		26RU9	17.36	18	---	17.09	18	---	
		52RU1	15.59	16	---	15.55	16	---	
		52RU4	17.69	18	---	17.54	18	---	
		106RU1	15.80	16	---	15.86	16	---	
		106RU2	16.16	17	---	16.08	17	---	
		242RU1	13.92	14.5	---	13.99	14.5	---	
	2437	26RU1	18.03	19	---	18.04	19	---	
		26RU9	18.05	19	---	17.97	19	---	
		52RU1	18.37	19	---	18.32	19	---	
		52RU4	18.39	19	---	18.25	19	---	
		106RU1	18.47	19	---	17.68	19	---	
		106RU2	18.50	19	---	17.66	19	---	
		242RU1	17.92	19	---	17.80	19	---	
	2462	26RU1	16.26	17	---	16.18	17	---	
		26RU9	14.50	15	---	14.54	15	---	
		52RU1	16.07	17	---	16.03	17	---	
		52RU4	15.61	16	---	15.59	16	---	
		106RU1	12.81	13.5	---	12.99	13.5	---	
		106RU2	15.77	16.5	---	15.90	16.5	---	
		242RU1	13.16	14	---	13.31	14	---	
802.11ax-HE40	2422	26RU1	13.73	14	---	13.74	14	---	No ^{NOTE4,3}
		26RU18	14.57	15	---	13.61	14	---	
		52RU1	15.04	16	---	14.26	15	---	
		52RU8	14.23	15	---	14.34	15	---	
		106RU1	14.62	15	---	14.65	15	---	
		106RU4	14.63	15	---	14.77	15	---	
		242RU1	9.23	10	---	9.14	10	---	
		242RU2	12.93	13.5	---	12.97	13.5	---	
		484RU1	11.43	12	---	11.47	12	---	
	2437	26RU1	14.87	15.5	---	15.28	16	---	
		26RU18	14.99	15.5	---	14.93	15.5	---	
		52RU1	15.20	16	---	15.56	16	---	
		52RU8	15.35	16	---	15.57	16	---	
		106RU1	15.34	16	---	15.45	16	---	
		106RU4	15.46	16	---	15.59	16	---	
		242RU1	15.54	16	---	15.46	16	---	
		242RU2	12.23	13	---	12.16	13	---	
		484RU1	13.20	14	---	13.39	14	---	
	2452	26RU1	13.95	15	---	13.71	14	---	
		26RU18	13.18	14	---	13.09	14	---	
		52RU1	14.59	15	---	14.80	15	---	
		52RU8	14.40	15	---	14.28	15	---	
		106RU1	14.79	15	---	14.68	15	---	
		106RU4	14.79	15	---	14.73	15	---	
		242RU1	13.05	14	---	13.00	14	---	
		242RU2	11.70	12	---	11.73	12	---	
		484RU1	11.24	12	---	11.31	12	---	

Type of Network	Frequency (MHz)	Average Output Power (dBm)						SAR Test
		ANT 1			ANT 2			
		Average Power	Tune-Up Limit	Scale Factor	Average Power	Tune-Up Limit	Scale Factor	
802.11a	5180	12.94	14.0	---	13.46	14.0	---	No ^{NOTE3,5}
	5200	16.12	17.0	---	15.84	17.0	---	No ^{NOTE3,5}
	5240	16.12	17.0	1.225	15.88	17.0	1.294	Yes
	5745	15.71	16.5	---	15.14	16.5	---	No ^{NOTE4,3}
	5785	15.96	16.5	1.132	15.27	16.5	1.327	Yes
	5825	15.96	16.5	---	15.15	16.5	---	No ^{NOTE4,3}

Type of Network	Frequency (MHz)	RU Configuration	Average Output Power (dBm)						SAR Test			
			ANT 1			ANT 2						
			Average Power	Tune-Up Limit	Scale Factor	Average Power	Tune-Up Limit	Scale Factor				
802.11ax-HE20	5180	26RU1	6.57	7	---	6.08	7	---	No ^{NOTE4,3}			
		26RU9	7.65	8	---	7.06	8	---				
		52RU1	10.66	11	---	10.34	11	---				
		52RU4	10.95	11.5	---	10.49	11	---				
		106RU1	8.79	9	---	8.42	9	---				
		106RU2	9.43	10	---	8.99	9.5	---				
		242RU1	13.71	14	---	12.82	13	---				
	5220	26RU1	7.64	8	---	7.17	8	---		Yes		
		26RU9	7.87	8	---	7.26	8	---				
		52RU1	11.00	12	---	10.57	11	---				
		52RU4	11.23	12	---	10.67	11	---				
		106RU1	14.25	15	---	13.73	14	---				
		106RU2	14.40	15	---	13.81	14	---				
	242RU1	15.57	16.0	1.104	15.07	16.0	1.239					
	5240	26RU1	7.78	8	---	7.08	8	---	No ^{NOTE4,3}			
		26RU9	7.97	8.5	---	7.23	8	---				
		52RU1	11.12	12	---	10.45	11	---				
		52RU4	11.29	12	---	10.64	11	---				
		106RU1	14.30	15	---	13.63	14	---				
		106RU2	14.44	15	---	13.78	14	---				
		242RU1	15.14	16	---	14.65	15	---				
	5475	26RU1	13.95	14.5	---	13.16	14	---		No ^{NOTE4,3}		
		26RU9	14.21	15	---	13.21	14	---				
		52RU1	14.32	15	---	13.52	14	---				
		52RU4	14.54	15	---	13.56	14	---				
		106RU1	14.45	15	---	13.61	14	---				
		106RU2	14.67	15	---	13.73	14	---				
		242RU1	17.67	18	---	16.93	17.5	---				
	5785	26RU1	14.29	15	---	13.42	14	---			No ^{NOTE4,3}	
		26RU9	14.52	15	---	13.57	14	---				
		52RU1	14.61	15	---	13.78	14	---				
		52RU4	14.87	15	---	13.92	14.5	---				
		106RU1	14.77	15	---	13.90	14.5	---				
		106RU2	14.96	15.5	---	13.97	14.5	---				
		242RU1	18.01	19	---	17.19	18	---				
	5825	26RU1	14.53	15	---	13.60	14	---				No ^{NOTE4,3}
		26RU9	14.48	15	---	13.43	14	---				
		52RU1	14.84	15	---	13.89	14	---				
		52RU4	14.78	15	---	13.77	14	---				
		106RU1	14.91	15.5	---	13.97	14.5	---				
		106RU2	14.91	15.5	---	13.90	14.5	---				
		242RU1	18.06	18.5	1.107	17.21	18.5	1.346	Yes			

Type of Network	Frequency (MHz)	RU Configuration	Average Output Power (dBm)						SAR Test
			ANT 1			ANT 2			
			Average Power	Tune-Up Limit	Scale Factor	Average Power	Tune-Up Limit	Scale Factor	
802.11ax-HE40	5190	26RU1	6.57	7	---	6.65	7	---	No ^{NOTE4,3}
		26RU18	8.03	9	---	7.65	8	---	
		52RU1	11.06	12	---	10.68	11	---	
		52RU8	11.23	12	---	10.88	11	---	
		106RU1	9.05	10	---	8.62	9	---	
		106RU4	14.32	15	---	13.85	14	---	
		242RU1	10.41	11	---	10.02	11	---	
		242RU2	14.03	15	---	13.16	14	---	
		484RU1	11.21	12	---	10.72	11	---	
	5230	26RU1	8.13	9	---	7.54	8	---	
		26RU18	8.26	9	---	7.57	8	---	
		52RU1	11.28	12	---	10.76	11	---	
		52RU8	11.41	12	---	10.82	11	---	
		106RU1	14.44	15	---	13.82	14	---	
		106RU4	14.57	15	---	13.84	14	---	
		242RU1	15.81	16	---	15.15	16	---	
		242RU2	15.41	16	---	14.73	15	---	
		484RU1	16.39	17.0	1.151	15.70	17.0	1.349	
	5755	26RU1	14.48	15	---	13.60	14	---	No ^{NOTE4,3}
		26RU18	14.75	15	---	13.83	14	---	
		52RU1	14.69	15	---	13.80	14	---	
		52RU8	14.92	15.5	---	14.06	15	---	
		106RU1	14.60	15	---	13.74	14	---	
		106RU4	14.89	15	---	13.97	14.5	---	
		242RU1	17.16	18	---	16.40	17	---	
		242RU2	17.94	18.5	---	17.17	18	---	
		484RU1	17.62	18	---	16.75	17	---	
	5795	26RU1	14.68	15	---	13.72	14.5	---	
		26RU18	14.79	15	---	13.93	14.5	---	
		52RU1	14.86	15	---	13.92	14.5	---	
		52RU8	14.97	15.5	---	14.12	15	---	
		106RU1	14.88	15	---	13.97	15	---	
		106RU4	15.00	16	---	14.16	15	---	
		242RU1	18.06	19	---	17.28	18	---	
		242RU2	18.14	18.5	1.086	17.46	18.5	1.271	
		484RU1	18.28	19.0	1.180	17.38	19.0	1.452	
							Yes		
							Yes		

Type of Network	Frequency (MHz)	RU Configuration	Average Output Power (dBm)						SAR Test
			ANT 1			ANT 2			
			Average Power	Tune-Up Limit	Scale Factor	Average Power	Tune-Up Limit	Scale Factor	
802.11ax-HE80	5210	26RU1	7.02	8	---	6.47	7	---	No ^{NOTE4,3}
		26RU37	8.39	9	---	7.65	8	---	
		52RU1	10.92	11	---	10.60	11	---	
		52RU16	11.53	12	---	10.91	11	---	
		106RU1	9.00	10	---	8.61	9	---	
		106RU8	9.88	10	---	9.28	10	---	
		242RU1	12.97	13.5	---	12.35	13	---	
		242RU4	13.01	13.5	---	12.35	13	---	
		484RU1	9.80	10.5	---	9.21	10	---	
		484RU2	9.97	10.5	---	9.33	10	---	
		966RU1	13.49	14.0	1.125	12.85	14.0	1.303	Yes
	5775	26RU1	14.36	15	---	13.54	14	---	No ^{NOTE4,3}
		26RU37	14.93	15.5	---	14.00	15	---	
		52RU1	14.58	15	---	13.75	14	---	
		52RU16	15.11	16	---	14.19	15	---	
		106RU1	14.60	15	---	13.74	14	---	
		106RU8	15.07	16	---	14.20	15	---	
		242RU1	17.15	18	---	16.46	17.5	---	
		242RU4	17.58	18	---	16.90	17.5	---	
		484RU1	17.14	18	---	16.24	17.5	---	
		484RU2	17.72	18	---	16.81	17.	---	
		966RU1	16.06	18.0	1.563	15.18	18.0	1.914	Yes

6.5.2. For BT Function

Type of Network	Frequency (MHz)	Average Output Power (dBm)			SAR Test
		ANT 1			
		Average Power	Tune-Up Limit	Scale Factor	
Bluetooth (GFSK)	2402	9.33	10.0	---	No
	2441	9.56	10.0	1.107	Yes
	2480	9.40	10.0	---	No
Bluetooth (8-DPSK)	2402	8.83	10.0	---	No
	2441	9.08	10.0	---	
	2480	8.82	10.0	---	
BLE (1Mbps)	2402	9.24	10.5	---	No
	2440	9.46	10.5	1.271	Yes
	2480	9.24	10.5	---	No

6.6. SAR Test Result

6.6.1. SAR Estimations for Simultaneous Transmission

Type of Network	Frequency (MHz)	Antenna	Antenna Position	Pant (dBm)	Pant(mW)	Pth(mW)	SARest (W/kg)	Distance (cm)
802.11b	2437	ANT 1	Back	19.5	89.125	143	0.997	4
	2462	ANT 1	Back	19.5	89.125	143	0.997	4
	2437	ANT 1	Top	19.5	89.125	329.8	0.432	6.2
BT	2441	ANT 1	Back	10	10	143	0.112	4
	2441	ANT 1	Top	10	10	329.8	0.049	6.2
BLE	2440	ANT 1	Back	10.5	11.220	143	0.126	4
	2440	ANT 1	Top	10	10.5	329.8	0.051	6.2
802.11a	5240	ANT 1	Back	17	50.119	106	0.757	4
	5785	ANT 1	Back	16.5	44.668	106	0.674	4
	5240	ANT 1	Top	17	50.119	264.9	0.303	6.2
	5785	ANT 1	Top	16.5	44.668	264.9	0.27	6.2

Note: Per KDB 447498 D04 ,The Estimated SAR formula is $SAR_{est} = 1.6 \cdot P_{ant} / P_{th} [W/kg]$.

6.6.2. WiFi 2.4G/Bluetooth

Test Date	2026. 02. 26	Temp./Hum.	22°C/48%
Test Voltage	AC 120V, 60Hz (with AC Adapter)	Tested by	Brian Hsieh

Liquid Temperature : 21.0°C							Depth of Liquid:> 15cm			
Test Mode: 2.4GHz										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 10g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11b										
Antenna: ANT 1										
P11 ^{Note 1}	Front	Fixed	0	2437	18.96	19.50	0.570	1.132	0.645	4.00
Antenna: ANT 2										
P12	Front	Fixed	0	2437	18.68	19.50	0.052	1.208	0.063	4.00

Note: 1. We only presented the worst plots for each test configuration.

Liquid Temperature : 21.0℃						Depth of Liquid: > 15cm				
Test Mode: 2.4GHz										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 1g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11b										
Antenna: ANT 1										
P18	Left	Fixed	0	2437	18.96	19.50	0.334	1.132	0.378	1.60
Antenna: ANT 2										
P21	Top	Fixed	0	2437	18.68	19.50	0.091	1.208	0.110	1.60
P24	Right	Fixed	0	2437	18.68	19.50	0.131	1.208	0.158	1.60
P27	Back	Fixed	0	2437	18.68	19.50	0.644	1.208	0.778	1.60
p30 ^{Note 1}	Back	Fixed	0	2462	18.26	19.50	0.668	1.33	0.888	1.60

Note: 1. We only presented the worst plots for each test configuration.

Test Date	2026. 02. 26	Temp./Hum.	22°C/48%
Test Voltage	AC 120V, 60Hz (with AC Adapter)	Tested by	Brian Hsieh

Liquid Temperature : 21.0°C							Depth of Liquid: > 15cm			
Test Mode: BT(GFSK)										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 10g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
Antenna: ANT 1										
P10 ^{Note 1}	Front	Fixed	0	2441	9.56	10.00	0.066	1.107	0.073	4.00

Note: 1. We only presented the worst plots for each test configuration.

Liquid Temperature : 21.0°C							Depth of Liquid: > 15cm			
Test Mode: BT(GFSK)										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 1g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
Antenna: ANT 1										
p17 ^{Note 1}	Left	Fixed	0	2441	9.56	10.00	0.028	1.107	0.031	1.60

Note: 1. We only presented the worst plots for each test configuration.

Liquid Temperature : 21.0℃							Depth of Liquid: > 15cm			
Test Mode: BLE										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 10g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
Antenna: ANT 1										
P31 ^{Note 1}	Front	Fixed	0	2440	9.46	10.50	0.056	1.271	0.071	1.60

Note: 1. We only presented the worst plots for each test configuration.

Liquid Temperature : 21.0℃							Depth of Liquid: > 15cm			
Test Mode: BLE										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 1g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
Antenna: ANT 1										
P32 ^{Note 1}	Left	Fixed	0	2440	9.46	10.50	0.022	1.271	0.028	1.60

Note: 1. We only presented the worst plots for each test configuration.

6.6.3. WiFi 5G

Test Date	2026. 03. 02 ~ 03	Temp./Hum.	21°C/45 ~ 26%
Test Voltage	AC 120V, 60Hz (with AC Adapter)	Tested by	Brian Hsieh

Liquid Temperature : 21.0°C						Depth of Liquid: > 15cm				
Test Mode: 5GHz										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 10g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11a										
Antenna: ANT 1										
P13	Front	Fixed	0	5240	16.12	17.00	0.141	1.225	0.173	4.00
P15	Front	Fixed	0	5785	15.96	16.50	0.214	1.132	0.242	4.00
Antenna: ANT 2										
P14	Front	Fixed	0	5240	15.88	17.00	0.00785	1.294	0.010	4.00
P16	Front	Fixed	0	5785	15.27	16.50	0.018	1.327	0.024	4.00

Note: 1. We only presented the worst plots for each test configuration.

Liquid Temperature : 21.0℃						Depth of Liquid: > 15cm				
Test Mode: 5GHz										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 1g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11a										
Antenna: ANT 1										
P19	Left	Fixed	0	5240	16.12	17.00	0.037	1.225	0.045	1.60
P20	Left	Fixed	0	5785	15.96	16.50	0.128	1.132	0.145	1.60
Antenna: ANT 2										
P22	Top	Fixed	0	5240	15.88	17.00	0.00721	1.294	0.009	1.60
P23	Top	Fixed	0	5785	15.27	16.50	0.029	1.327	0.038	1.60
P25	Right	Fixed	0	5240	15.88	17.00	0.031	1.294	0.040	1.60
P26	Right	Fixed	0	5785	15.27	16.50	0.031	1.327	0.041	1.60
P28	Back	Fixed	0	5240	15.88	17.00	0.117	1.294	0.151	1.60
P29 ^{Note1}	Back	Fixed	0	5785	15.27	16.50	0.180	1.327	0.239	1.60

Note: 1. We only presented the worst plots for each test configuration.

Test Date	2026. 03. 02 ~ 03	Temp./Hum.	21°C/45 ~ 26%
Test Voltage	AC 120V, 60Hz (with AC Adapter)	Tested by	Brian Hsieh

Test Mode: 5GHz

Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 10g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11ax-HE20										
Antenna: ANT 1										
P33	Front	Fixed	0	5220	15.57	16.00	0.091	1.104	0.100	4.00
P39	Front	Fixed	0	5825	18.06	18.50	0.183	1.107	0.203	4.00
Antenna: ANT 2										
P34	Front	Fixed	0	5220	15.07	16.00	0.013	1.239	0.016	4.00
P40	Front	Fixed	0	5825	17.21	18.50	0.027	1.346	0.036	4.00

Note: 1. We only presented the worst plots for each test configuration.

Liquid Temperature : 21.0°C							Depth of Liquid: > 15cm			
Test Mode: 5GHz										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 1g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11ax-HE20										
Antenna: ANT 1										
P47	Left	Fixed	0	5220	15.57	16.00	0.035	1.104	0.039	1.60
P50	Left	Fixed	0	5825	18.06	18.50	0.116	1.070	0.124	1.60
Antenna: ANT 2										
P54	Top	Fixed	0	5220	15.07	16.00	0.019	1.239	0.024	1.60
P57	Top	Fixed	0	5825	17.21	18.50	0.025	1.346	0.034	1.60
P61	Right	Fixed	0	5220	15.07	16.00	0.016	1.239	0.020	1.60
P64	Right	Fixed	0	5825	17.21	18.50	0.026	1.346	0.035	1.60
P68	Back	Fixed	0	5220	15.07	16.00	0.061	1.239	0.076	1.60
P71	Back	Fixed	0	5825	17.21	18.50	0.113	1.346	0.152	1.60

Note: 1. We only presented the worst plots for each test configuration.

Test Date	2026. 03. 02 ~ 03	Temp./Hum.	21°C/45 ~ 26%
Test Voltage	AC 120V, 60Hz (with AC Adapter)	Tested by	Brian Hsieh

Liquid Temperature : 21.0℃						Depth of Liquid: > 15cm				
Test Mode: 5GHz										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 10g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11ax-HE40										
Antenna: ANT 1										
P35	Front	Fixed	0	5230	16.39	17.00	0.095	1.151	0.109	4.00
P41 ^{Note 1}	Front	Fixed	0	5795	18.28	19.00	0.211	1.180	0.249	4.00
Antenna: ANT 2										
P36	Front	Fixed	0	5230	15.70	17.00	0.014	1.349	0.019	4.00
P42	Front	Fixed	0	5795	17.38	19.00	0.024	1.452	0.035	4.00

Note: 1. We only presented the worst plots for each test configuration.

Liquid Temperature : 21.0℃							Depth of Liquid: > 15cm			
Test Mode: 5GHz										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 1g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11ax-HE40										
Antenna: ANT 1										
P48	Left	Fixed	0	5230	16.39	17.00	0.033	1.151	0.038	1.60
P51	Left	Fixed	0	5795	18.28	19.00	0.109	1.180	0.129	1.60
Antenna: ANT 2										
P55	Top	Fixed	0	5230	15.70	17.00	0.014	1.349	0.019	1.60
P58	Top	Fixed	0	5795	17.38	19.00	0.026	1.452	0.038	1.60
P62	Right	Fixed	0	5230	15.70	17.00	0.014	1.349	0.019	1.60
P65	Right	Fixed	0	5795	17.38	19.00	0.025	1.452	0.036	1.60
P69	Back	Fixed	0	5230	15.70	17.00	0.073	1.349	0.098	1.60
P72	Back	Fixed	0	5795	17.38	19.00	0.119	1.452	0.173	1.60

Note: 1. We only presented the worst plots for each test configuration.

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Test Date	2026. 03. 02 ~ 03	Temp./Hum.	21°C/45 ~ 26%
Test Voltage	AC 120V, 60Hz (with AC Adapter)	Tested by	Brian Hsieh

Liquid Temperature : 21.0℃						Depth of Liquid:> 15cm				
Test Mode: 5GHz										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 10g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11ax-HE40-242RU2										
Antenna: ANT 1										
P45	Front	Fixed	0	5795	18.14	18.50	0.147	1.086	0.160	4.00
Antenna: ANT 2										
P46	Front	Fixed	0	5795	17.46	18.50	0.021	1.271	0.027	4.00

Note: 1. We only presented the worst plots for each test configuration.

Liquid Temperature : 21.0°C						Depth of Liquid:> 15cm				
Test Mode: 5GHz										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 1g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11ax-HE40-242RU2										
Antenna: ANT 1										
P53	Left	Fixed	0	5795	18.14	18.50	0.120	1.086	0.130	1.60
Antenna: ANT 2										
P60	Top	Fixed	0	5795	17.46	18.500	0.028	1.271	0.036	1.60
P67	Right	Fixed	0	5795	17.46	18.500	0.022	1.271	0.028	1.60
P74	Back	Fixed	0	5795	17.46	18.500	0.102	1.271	0.130	1.60

Test Date	2026. 03. 02 ~ 03	Temp./Hum.	21°C/45 ~ 26%
Test Voltage	AC 120V, 60Hz (with AC Adapter)	Tested by	Brian Hsieh

Test Mode: 5GHz

Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 10g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11ax-HE80										
Antenna: ANT 1										
P37	Front	Fixed	0	5210	13.49	14.00	0.045	1.125	0.051	4.00
P43	Front	Fixed	0	5775	16.06	18.00	0.107	1.563	0.167	4.00
Antenna: ANT 2										
P38	Front	Fixed	0	5210	12.85	14.00	0.012	1.303	0.016	4.00
P44	Front	Fixed	0	5775	15.18	18.00	0.019	1.914	0.036	4.00

Note: 1. We only presented the worst plots for each test configuration.

Liquid Temperature : 21.0°C							Depth of Liquid: > 15cm			
Test Mode: 5GHz										
Plot No.	Test Position: Body	Antenna Position	Separation Distance (cm)	Frequency	Conducted Power (dBm)	Maximum Tune-up (dBm)	SAR 1g (W/kg)	Scale Factor	Reported SAR	Limit (W/kg)
802.11ax-HE80										
Antenna: ANT 1										
P49	Left	Fixed	0	5210	13.49	14.00	0.032	1.125	0.036	1.60
P52	Left	Fixed	0	5775	16.06	18.00	0.091	1.563	0.142	1.60
Antenna: ANT 2										
P56	Top	Fixed	0	5775	12.85	14.00	0.020	1.303	0.026	1.60
P59	Top	Fixed	0	5775	15.18	18.00	0.019	1.914	0.036	1.60
P63	Right	Fixed	0	5775	12.85	14.00	0.017	1.303	0.022	1.60
P66	Right	Fixed	0	5775	15.18	18.00	0.021	1.914	0.040	1.60
P70	Back	Fixed	0	5775	12.85	14.00	0.043	1.303	0.056	1.60
P73	Back	Fixed	0	5775	15.18	18.00	0.058	1.914	0.111	1.60

Note: 1. We only presented the worst plots for each test configuration.

6.6.4. Highest Simultaneous Transmission SAR

● Test Position: Front

Highest Simultaneous Transmission SAR	SAR _{10g} (W/kg)	Total SAR _{10g}
WLAN 2.4G (2437MHz) ANT 1 (Front) + WLAN 2.4G (2437MHz) ANT 2 (Front)	0.645 0.063	0.708 W/kg
WLAN 2.4G (2437MHz) ANT 2 (Front) BT (2441MHz) ANT 1 (Front)	0.063 0.073	0.136 W/kg
WLAN 5G (5795MHz) ANT 2 (Front) BT (2441MHz) ANT 1 (Front)	0.249 0.073	0.322 W/kg
WLAN 5G (5795MHz) ANT 1 (Front) WLAN 5G (5795MHz) ANT 2 (Front)	0.249 0.035	0.284 W/kg
WLAN 5G (5795MHz) ANT 1 (Front) WLAN 5G (5795MHz) ANT 2 (Front) BT (2441MHz) ANT 1 (Front)	0.249 0.035 0.073	0.357 W/kg
Note: 1. The SAR limit (SAR _{10g} 4.0 W/kg) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093). 2. It is calculated from scale SAR and SAR _{rest} .		

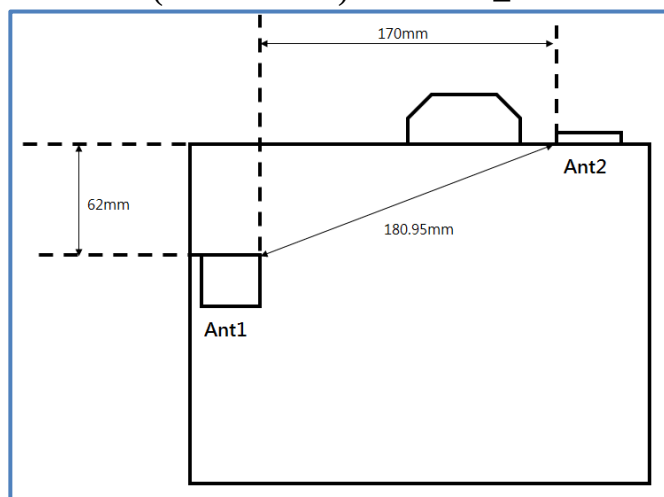
● Test Position: Left/Right/Top/Back

Highest Simultaneous Transmission SAR	SAR _{1g} (W/kg)	Total SAR _{1g}
WLAN 2.4G (2462MHz) ANT 1 (Back) + WLAN 2.4G (2462MHz) ANT 2 (Back)	0.997 0.888	1.885 W/kg
WLAN 2.4G (2462MHz) ANT 2 (Back) BT (2441Hz) ANT 1 (Left)	0.888 0.031	0.919 W/kg
WLAN 5G (5785MHz) ANT 2 (Back) + BT (2441Hz) ANT 1 (Left)	0.239 0.031	0.270 W/kg
WLAN 5G (5785MHz) ANT 1 (Back) + WLAN 5G (5785MHz) ANT 2 (Back) +	0.674 0.239	0.913 W/kg
WLAN 5G (5785MHz) ANT 1 (Back) + WLAN 5G (5785MHz) ANT 2 (Back) + BT (2441Hz) ANT 1 (Left)	0.674 0.239 0.031	0.944 W/kg
Note: 1. The SAR limit (SAR _{1g} 1.6 W/kg) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093). 2. It is calculated from scale SAR and SAR _{rest} . 3. It is larger than the limit 1.6(W/kg), SAR test exclusion is determined by the SAR to peak location separation ratio.		

Simultaneous Transmission SAR	Frequency	Reported Body SAR _{1g} (SAR1+SAR2) ^{Note2}	Ri (mm) ^{Note2}	SPLSR ^{Note2}
WLAN 2.4G ANT 1 (Back) + WLAN 2.4G ANT 2 (Back)	2462MHz	1.885(W/kg) ^{Note 2}	180.95	0.02

Note: 1. The SAR limit (SAR_{1g} 1.6 W/kg) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093).

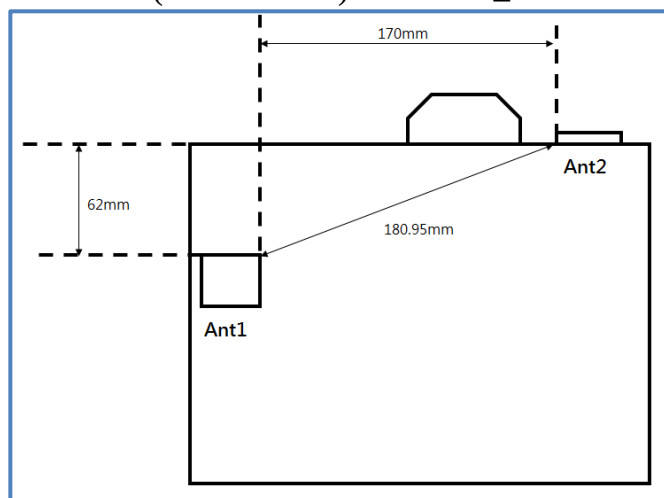
2. $SPLSR = (SAR1 + SAR2)^{1.5} / Ri$ must ≤ 0.04



Simultaneous Transmission SAR	Frequency	Reported Body SAR _{1g} (SAR1+SAR2) ^{Note2}	Ri (mm) ^{Note2}	SPLSR ^{Note2}
WLAN 2.4G ANT 1 (Back) + WLAN 2.4G ANT 2 (Back)	2437MHz	1.775(W/kg) ^{Note 2}	180.95	0.02

Note: 1. The SAR limit (SAR_{1g} 1.6 W/kg) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093).

2. $SPLSR = (SAR1 + SAR2)^{1.5} / Ri$ must ≤ 0.04





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APPENDIX A

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APPENDIX A

TEST GRAPH RESULT

(Model: DR15)

● **WiFi 2.4G (Worst Plots Test Position: Front)**

Date: 2/26/2026

Test Laboratory: Audix_SAR Lab

P11 802.11b CH6 2437MHz Aux Front

DUT: DR15

Communication System: UID 0, WIFI 2.4G 802.11B (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.714$ S/m; $\epsilon_r = 39.928$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(6.56, 7.07, 7.4) @ 2437 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (5x5x1): Measurement grid: $dx=20$ mm, $dy=20$ mm

Maximum value of SAR (measured) = 1.37 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.497 V/m; Power Drift = -0.25 dB

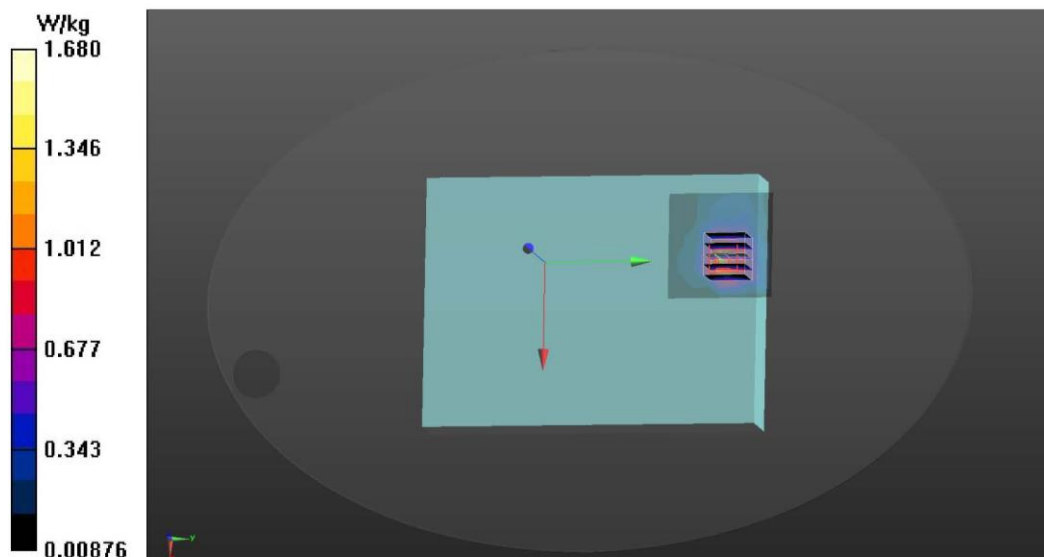
Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.570 W/kg

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 46%

Maximum value of SAR (measured) = 1.68 W/kg



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● **WiFi 2.4G (Worst Plots Test Position: Back)**

Date: 2/26/2026

Test Laboratory: Audix_SAR Lab

P30 802.11b CH11 2462MHz Main Back**DUT: DR15**

Communication System: UID 0, WIFI 2.4G 802.11B (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.735 \text{ S/m}$; $\epsilon_r = 39.908$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(6.56, 7.07, 7.4) @ 2462 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (4x5x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.840 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.465 V/m; Power Drift = 0.09 dB

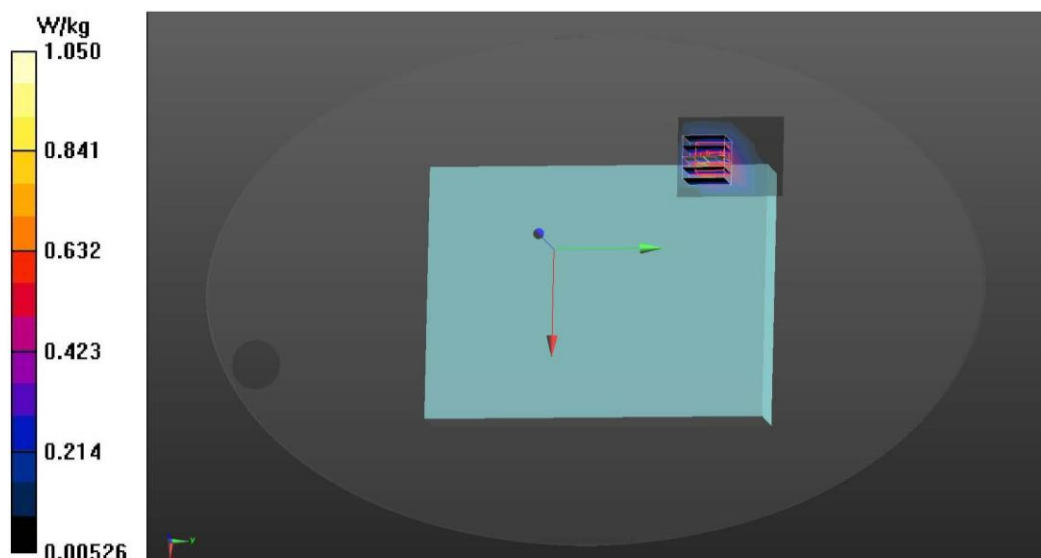
Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.668 W/kg; SAR(10 g) = 0.315 W/kg

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 46.3%

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



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● **Bluetooth (Worst Plots Test Position: Front)**

Date: 2/26/2026

Test Laboratory: Audix_SAR Lab

P10 GFSK CH39 2441MHz Aux Front**DUT: DR15**

Communication System: UID 0, BT (0); Frequency: 2441 MHz; Duty Cycle: 1:1.3

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.717$ S/m; $\epsilon_r = 39.922$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(6.56, 7.07, 7.4) @ 2441 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (5x5x1): Measurement grid: $dx=20$ mm, $dy=20$ mm

Maximum value of SAR (measured) = 0.152 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.274 V/m; Power Drift = 0.21 dB

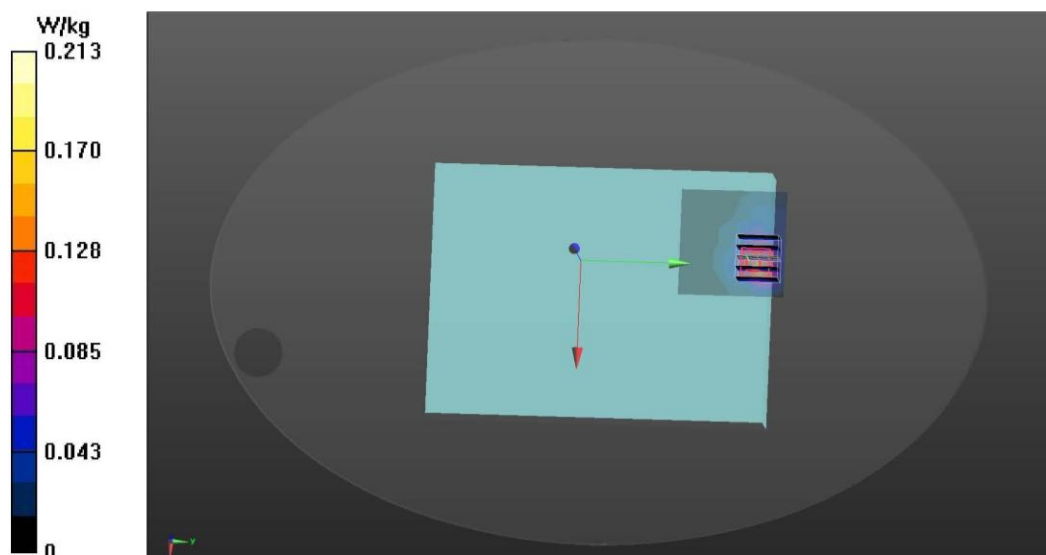
Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.066 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 38.9%

Maximum value of SAR (measured) = 0.213 W/kg



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● **Bluetooth (Worst Plots Test Position: Left)**

Date: 2/26/2026

Test Laboratory: Audix_SAR Lab

P17 GFSK CH39 2441MHz Aux Left**DUT: DR15**

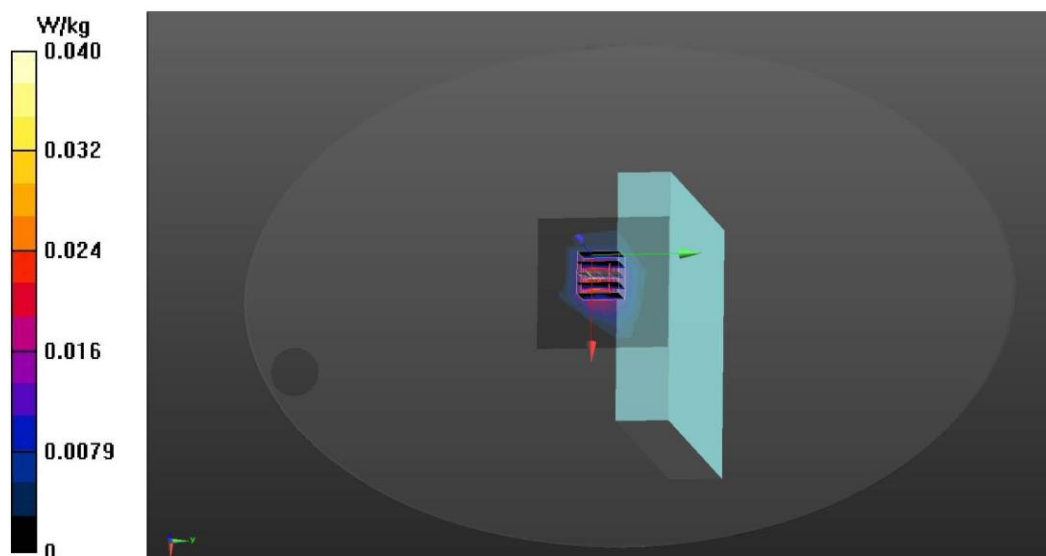
Communication System: UID 0, BT (0); Frequency: 2441 MHz; Duty Cycle: 1:1.3
Medium parameters used: $f = 2441$ MHz; $\sigma = 1.717$ S/m; $\epsilon_r = 39.922$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(6.56, 7.07, 7.4) @ 2441 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (6x6x1): Measurement grid: $dx=20$ mm, $dy=20$ mm
Maximum value of SAR (measured) = 0.0232 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.289 V/m; Power Drift = 0.50 dB
Peak SAR (extrapolated) = 0.0890 W/kg
SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.011 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 53.9%
Maximum value of SAR (measured) = 0.0395 W/kg



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● **BLE (Worst Plots Test Position: Front)**

Date: 2/26/2026

Test Laboratory: Audix_SAR Lab

P31 BLE CH19 2440MHz Aux Front**DUT: DR15**

Communication System: UID 0, BT (0); Frequency: 2440 MHz; Duty Cycle: 1:1.56

Medium parameters used: $f = 2440$ MHz; $\sigma = 1.716$ S/m; $\epsilon_r = 39.926$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(6.56, 7.07, 7.4) @ 2440 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (5x5x1): Measurement grid: $dx=20$ mm, $dy=20$ mm

Maximum value of SAR (measured) = 0.158 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 0.8565 V/m; Power Drift = 0.03 dB

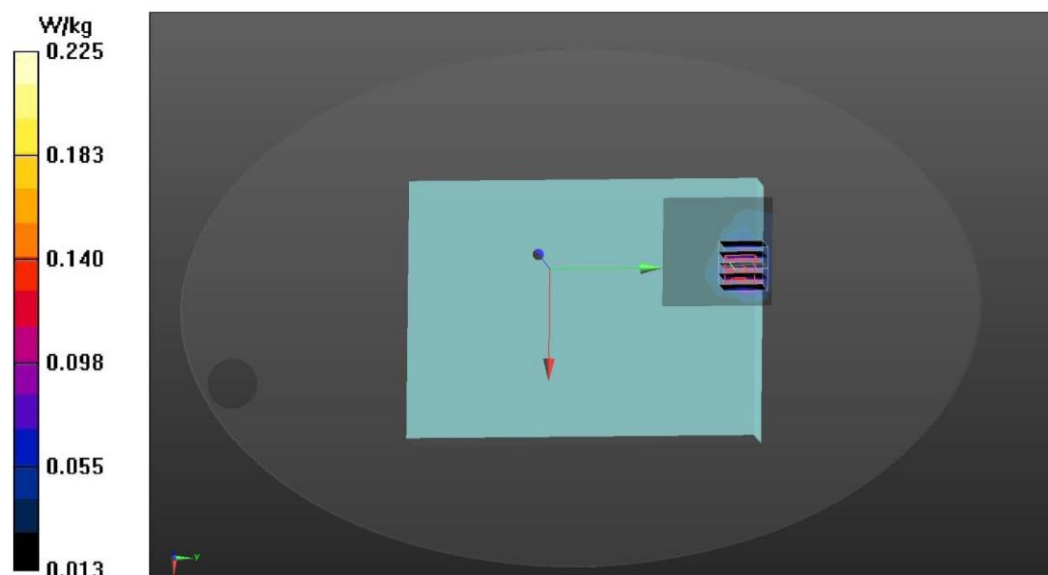
Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.056 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 35.7%

Maximum value of SAR (measured) = 0.225 W/kg



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● **BLE (Worst Plots Test Position: Left)**

Date: 2/26/2026

Test Laboratory: Audix_SAR Lab

P32 BLE CH19 2440MHz Aux Left

DUT: DR15

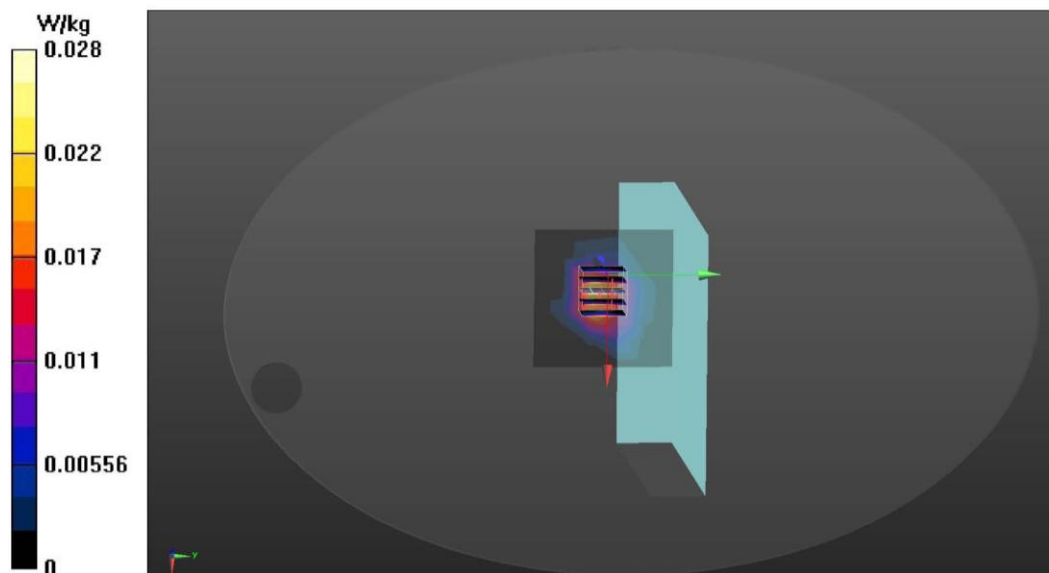
Communication System: UID 0, BT (0); Frequency: 2440 MHz; Duty Cycle: 1:1.56
Medium parameters used: $f = 2440$ MHz; $\sigma = 1.716$ S/m; $\epsilon_r = 39.926$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(6.56, 7.07, 7.4) @ 2440 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (6x6x1): Measurement grid: $dx=20$ mm, $dy=20$ mm
Maximum value of SAR (measured) = 0.0218 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 1.955 V/m; Power Drift = 0.21 dB
Peak SAR (extrapolated) = 0.0878 W/kg
SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.00974 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 58.4%
Maximum value of SAR (measured) = 0.0278 W/kg



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● **WiFi 5G (Worst Plots Test Position: Front)**

Date: 3/3/2026

Test Laboratory: Audix_SAR Lab

P41 802.11ax40 CH159 5795MHz Aux Front**DUT: DR15**

Communication System: UID 0, WIFI 5G 802.11HE_40 (0); Frequency: 5795 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5795 \text{ MHz}$; $\sigma = 5.518 \text{ S/m}$; $\epsilon_r = 35.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(4.53, 4.88, 5.11) @ 5795 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (9x9x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.730 W/kg

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

Reference Value = 1.244 V/m; Power Drift = 0.08 dB

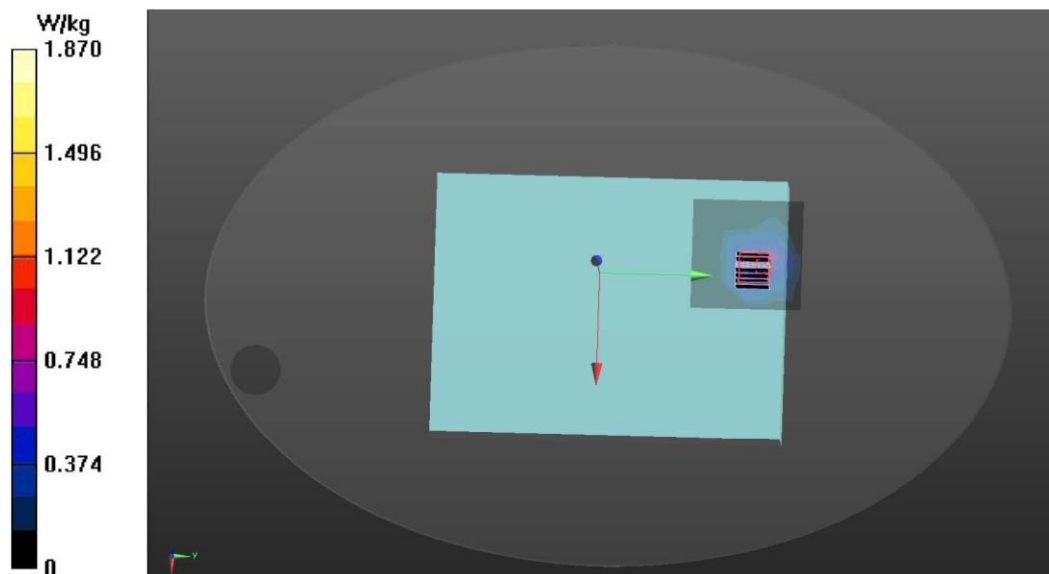
Peak SAR (extrapolated) = 4.04 W/kg

SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.211 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 1.87 W/kg



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● **WiFi 5G (Worst Plots Test Position: Back)**

Date: 3/3/2026

Test Laboratory: Audix_SAR Lab

P29 802.11a CH157 5785MHz Main Back**DUT: DR15**

Communication System: UID 0, WIFI 5G 802.11a (0); Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 5.507 \text{ S/m}$; $\epsilon_r = 35.07$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3855; ConvF(4.53, 4.88, 5.11) @ 5785 MHz; Calibrated: 9/25/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1337; Calibrated: 3/21/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1170
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (7x9x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.378 W/kg

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

Reference Value = 0.7542 V/m; Power Drift = 0.12 dB

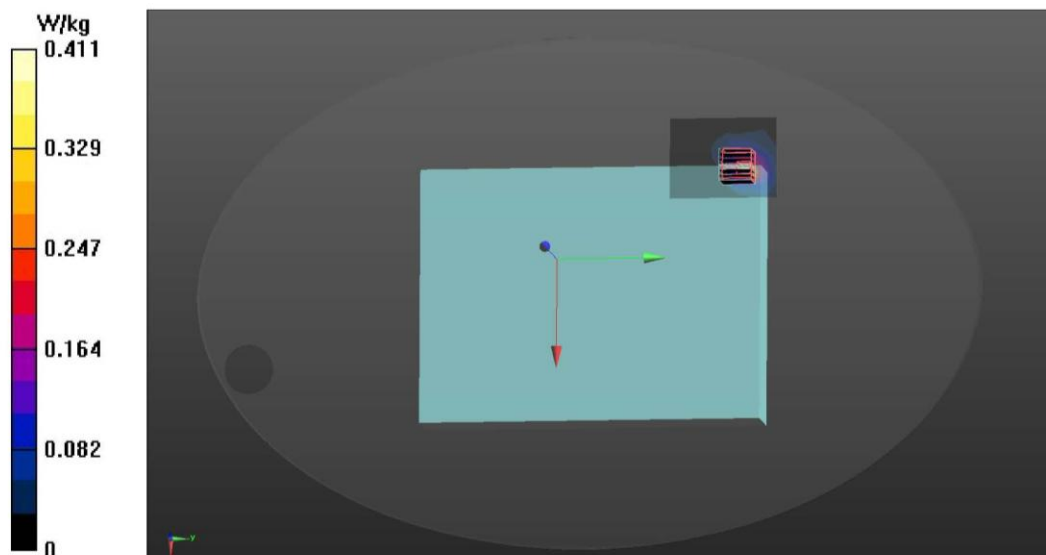
Peak SAR (extrapolated) = 0.832 W/kg

SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.050 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 45.5%

Maximum value of SAR (measured) = 0.411 W/kg



file:///C:/Users/USER/Desktop/report%20data%20250925/P29-1%20802.11a%20CH157%20578...



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APPENDIX B

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APPENDIX B

TEST PHOTOGRAPHS

(Model: DR15)

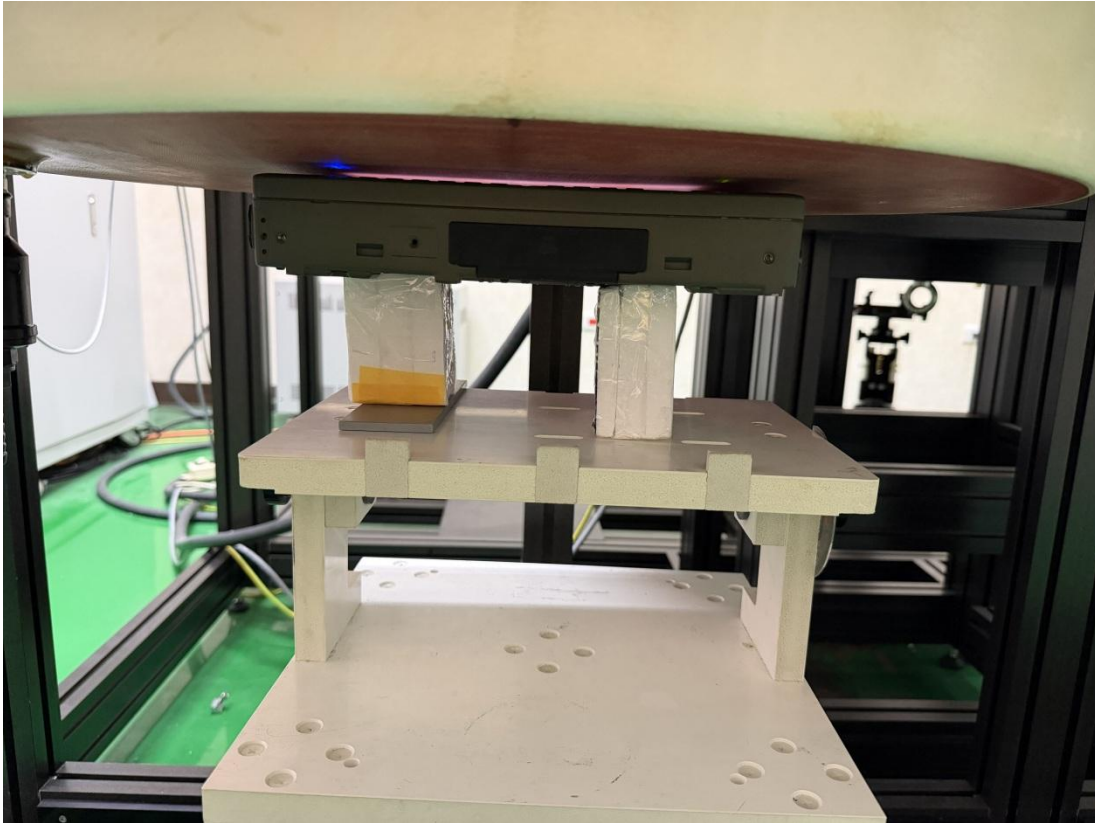
B.1 Exposure Positions Consideration (SAR)

Antenna Position

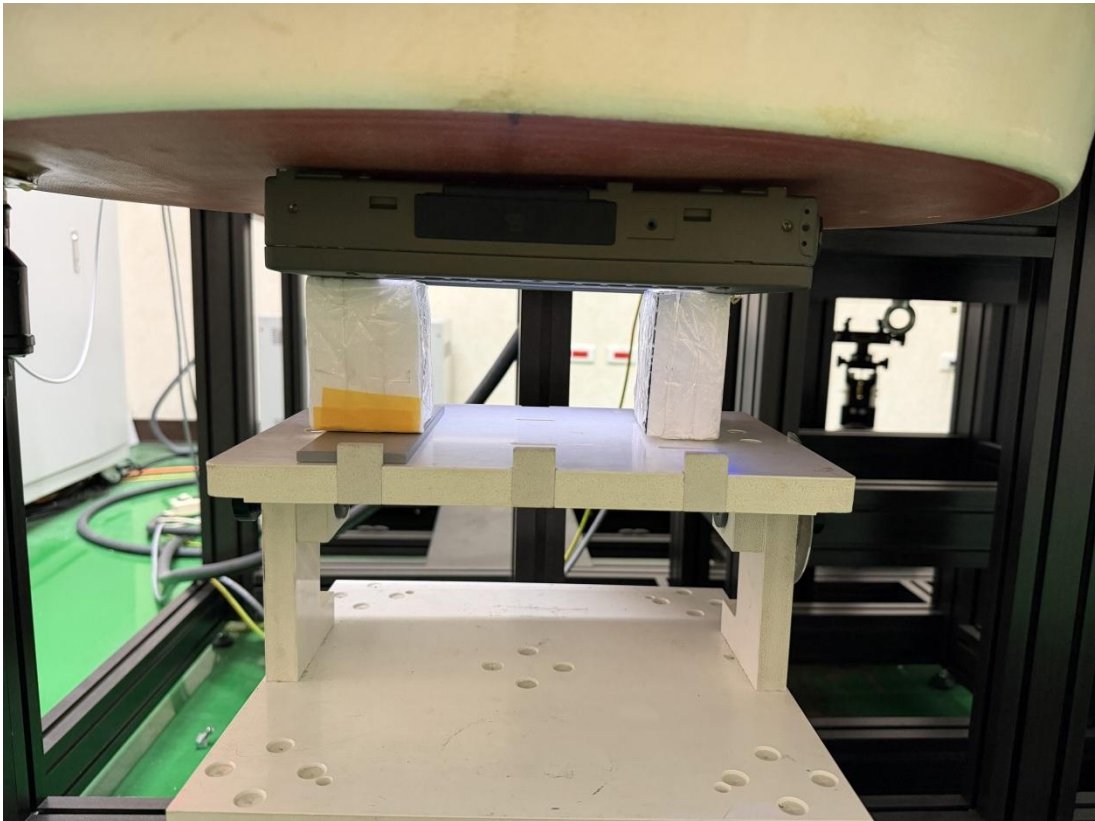


B.2 SAR MEASUREMENT

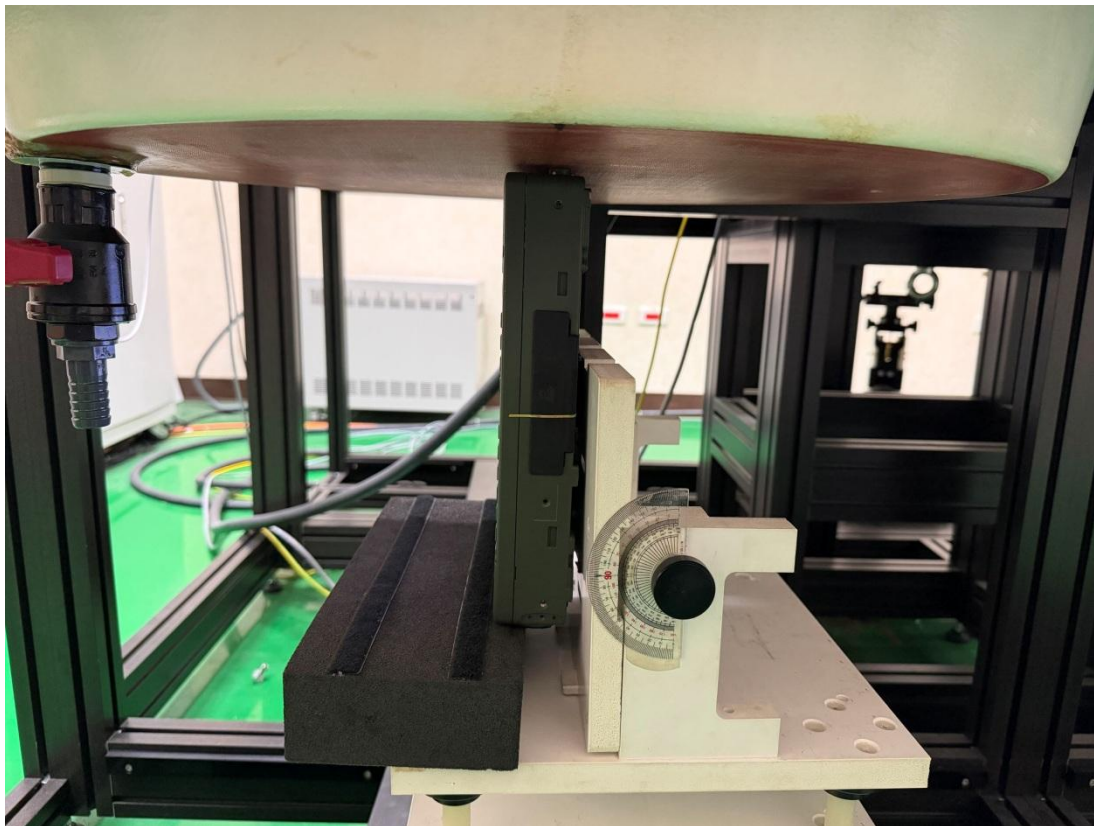
Test Position: Front



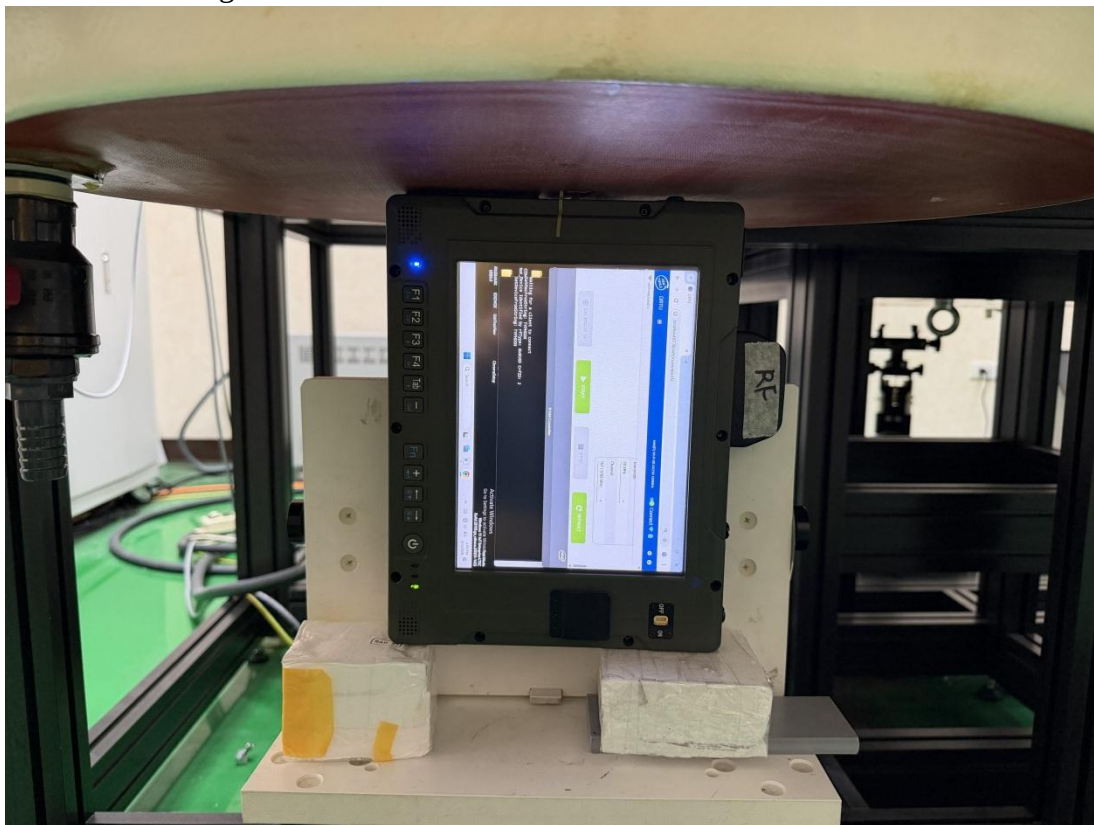
Test Position: Back



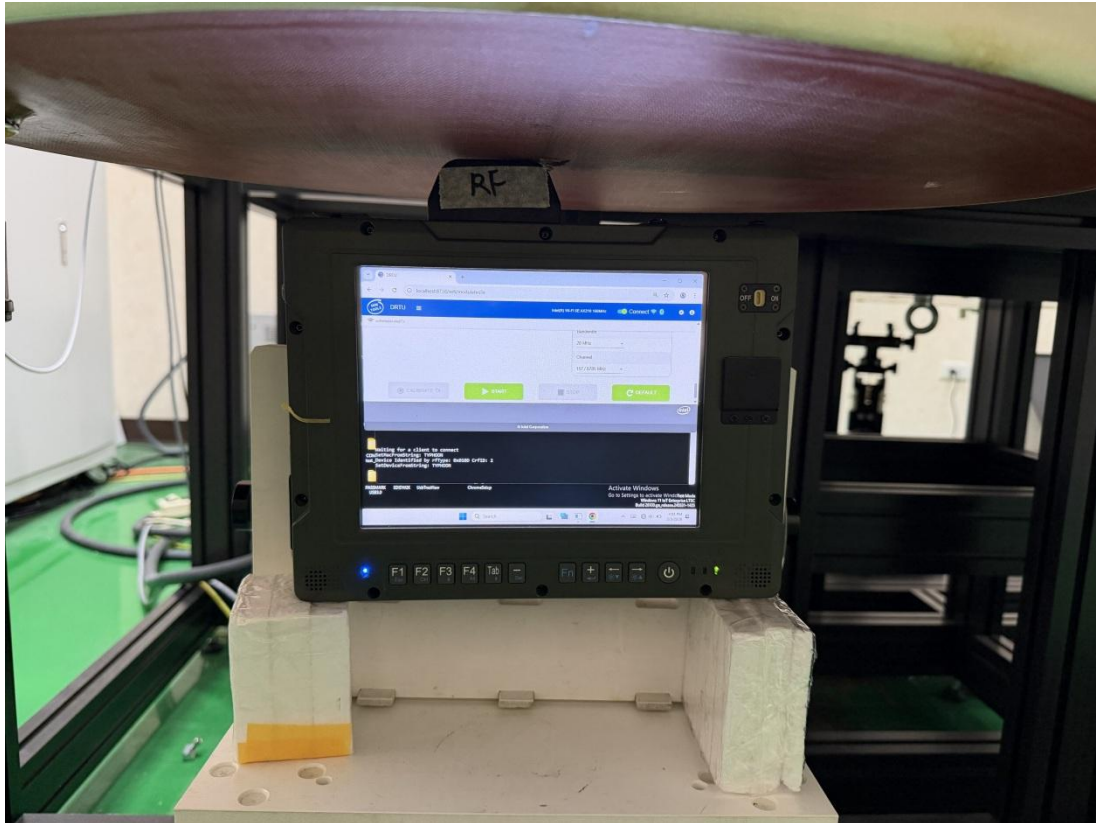
Test Position: Left



Test Position: Right



Test Position: Top



Depth of the Liquid in the Phantom-Zoom In

