

## RF Exposure report



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

<b>EUT Type</b>	2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card
<b>Trade Name</b>	MediaTek
<b>Model Number</b>	MT7922A22M
<b>Company Name</b>	MediaTek Inc.
<b>Company Address</b>	No. 1, Dusing 1st Rd., Hsinchu Science Park, Hsinchu City, 30078, Taiwan
<b>Standards</b>	IEEE/ANSI C95.1-1992, IEEE 1528-2013
<b>FCC ID</b>	RAS-MT7922A22M
<b>Date of EUT Receipt</b>	This report is no date of EUT received
<b>Date of Test(s)</b>	This report is no date of test.
<b>Date of Issue</b>	Feb. 12, 2024

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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**Signed on behalf of SGS**

Clerk / Cindy Chou	PM / Afu Chen	Approved By / John Yeh

Date: Feb. 12, 2024

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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

KDB616217D04v01r02

KDB248227D01v02r01

IEC/IEEE 62209-1528:2020

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1.2 Description of EUT

EUT Type	2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card	
Trade Name	MediaTek	
Model Number	MT7922A22M	
FCC ID	RAS-MT7922A22M	
Host Information	Product Type: Notebook PC Trade Name: ASUS Model Name: GA403U, GA403UI, GA403UV, GA403UU, GA463UI, GA463UV, GA463UU, GA463U All models are electrically identical, different model names are for marketing purpose.	
Duty Cycle	WLAN802.11	Please refer to section 7
Supported radios (TX Frequency Range, MHz)	802.11 b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 5.9GHz (5850.0 – 5895.0 MHz)
	802.11ax	6.2GHz (5925.0 – 6425.0 MHz) 6.5GHz (6425.0 – 6525.0 MHz) 6.7GHz (6525.0 – 6875.0 MHz) 7.0GHz (6875.0 – 7125.0 MHz)

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### 1.3 Maximum value

Summary of Maximum SAR and APD Value		
Mode	Highest SAR 1g (W/kg)	Highest APD (W/m <sup>2</sup> )
2.4G WLAN	0.228	N/A
5.2G WLAN	0.331	N/A
5.3G WLAN	0.307	N/A
5.6G WLAN	0.213	N/A
5.9G WLAN	0.217	N/A
6G WLAN	0.554	4.011

### 1.4 Antenna Information

Vendor	LUXSHAREICT									
Antenna	Main									
Part Number	LA9RF524-CS-H									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.97	3.14	3.45	3.57	3.57	2.71	2.76	2.00	2.00	1.66
Antenna	Aux									
Part Number	LA9RF525-CS-H									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	3.16	3.15	3.15	3.40	3.06	3.06	4.71	4.13	4.58	4.06

Vendor	INPAQ									
Antenna	Main									
Part Number	WA-P-LE-02-210									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.91	2.42	2.63	2.86	3.31	2.62	2.52	1.37	1.41	0.92
Antenna	Aux									
Part Number	WA-P-LE-03-029									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.21	2.93	2.25	3.26	2.59	2.23	4.05	3.28	4.38	3.36

Note: Antenna information is provided by the applicant.

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## 2 MEASUREMENT SYSTEM

### 2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation 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	TW3702
		SAR 6		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	TW0028	
		SAR 4		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	TW0027	
		SAR 7		

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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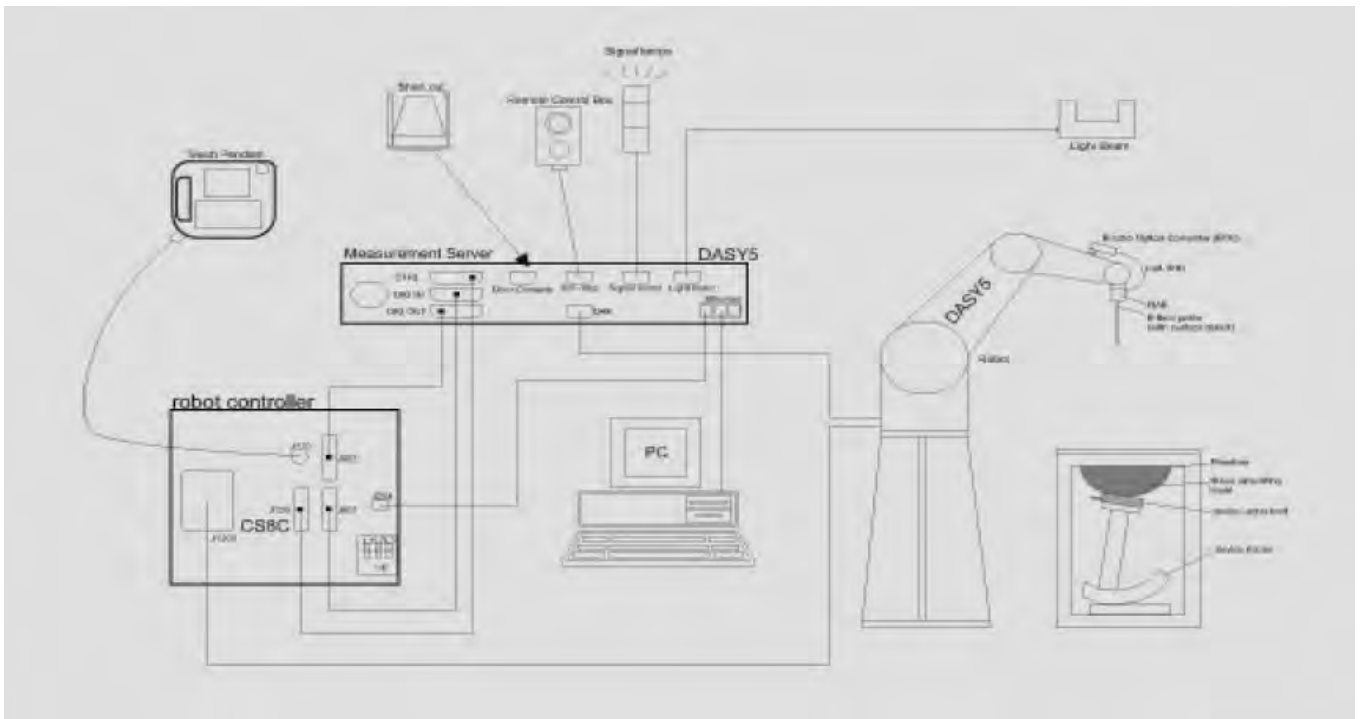
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## 2.2 SAR System

### Block Diagram (DASY5)

A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation  $SAR = \sigma (|E|^2) / \rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.



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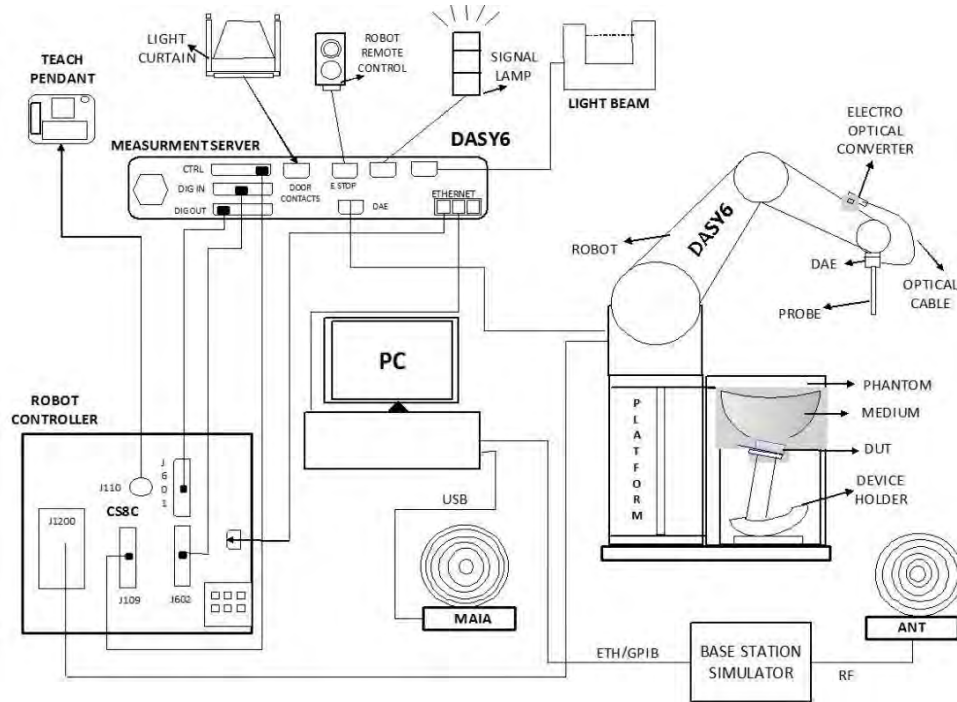
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### Block Diagram (DASY6)

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 2450/5250/5600/5750/6500/7000 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.	 <p style="text-align: center;">Device Holder</p>
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### 3 SAR SYSTEM VERIFICATION

#### 3.1 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.

#### 3.2 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.

#### 3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Limit	Measurement Date
2437	39.222	1.788	39.446	1.786	0.57%	-0.14%	$\pm 5\%$	Oct. 17, 2023
2450	39.200	1.800	39.435	1.795	0.60%	-0.28%	$\pm 5\%$	Oct. 17, 2023
5230	35.970	4.690	36.206	4.654	0.66%	-0.77%	$\pm 5\%$	Oct. 17, 2023
5250	35.950	4.710	36.006	4.699	0.16%	-0.23%	$\pm 5\%$	Oct. 17, 2023
5270	35.930	4.730	36.154	4.712	0.62%	-0.38%	$\pm 5\%$	Oct. 17, 2023
5570	35.545	5.039	35.679	5.081	0.38%	0.84%	$\pm 5\%$	Oct. 17, 2023
5600	35.500	5.070	35.668	5.111	0.47%	0.81%	$\pm 5\%$	Oct. 17, 2023
5750	35.350	5.220	35.527	5.271	0.50%	0.98%	$\pm 5\%$	Oct. 17, 2023
5815	35.285	5.285	35.025	5.339	-0.74%	1.02%	$\pm 5\%$	Oct. 17, 2023
6025	35.070	5.510	34.605	5.561	-1.33%	0.93%	$\pm 5\%$	Oct. 18, 2023
6345	34.686	5.887	34.236	5.845	-1.30%	-0.72%	$\pm 5\%$	Oct. 18, 2023
6500	34.500	6.070	34.057	6.008	-1.28%	-1.02%	$\pm 5\%$	Oct. 18, 2023
6505	34.494	6.076	34.041	6.021	-1.31%	-0.90%	$\pm 5\%$	Oct. 18, 2023
6665	34.302	6.261	33.867	6.181	-1.27%	-1.28%	$\pm 5\%$	Oct. 18, 2023
6985	33.918	6.633	33.499	6.523	-1.24%	-1.65%	$\pm 5\%$	Oct. 18, 2023
7000	33.900	6.650	33.496	6.535	-1.19%	-1.73%	$\pm 5\%$	Oct. 18, 2023

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### 3.4 The composition of the tissue simulating liquid:

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

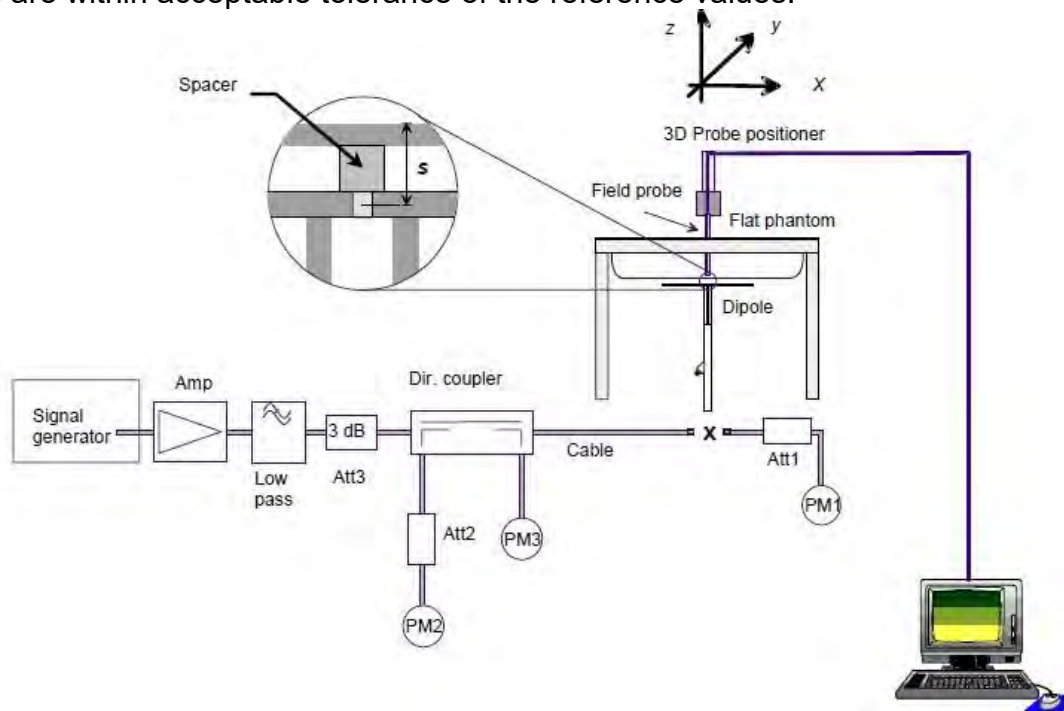
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

### 3.5 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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### 3.6 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	53.1	13.3	53.2	0.19	± 10%	Oct.17,2023
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	80.4	8.21	82.1	2.11	± 10%	Oct.17,2023
D5GHzV2	1349	5600	83.1	8.26	82.6	-0.60	± 10%	Oct.17,2023
D5GHzV2	1349	5750	81.4	8.09	80.9	-0.61	± 10%	Oct.17,2023
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
D6.5GHzV2	1006	6500	296	29.7	297	0.34	± 10%	Oct.18,2023
D7GHzV2	1007	7000	281	28.2	282	0.36	± 10%	Oct.18,2023

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## 4 TEST CONFIGURATIONS

### 4.1 Test Environment

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

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

### 4.2 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  $\leq 0.8$  W/kg, when the transmission band is  $\leq 100$  MHz.
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is  $\geq 0.8$  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  $\geq 1.45$  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  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is  $> 0.8$  W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel; i.e., all channels require testing.
- **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  $\leq 1.2$  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  $> 0.8$  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  $\leq 1.2$  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  $\leq 1.2$  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.
- **WLAN 6GHz:** Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209- 1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance). For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.
- **WLAN 6GHz:** Per equipment manufacturer guidance, power density was measured at  $d=2$ mm with the grid step ( $0.0625\lambda$ ) for determining compliance at  $d=2$ mm.
- **WLAN 6GHz:** According to October 2020 TCB Workshop Interim procedures, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty  $> 30\%$ . Total expanded uncertainty of 2.67 dB (85%) was used to determine the psPD measurement scaling factor.
- **WLAN 6GHz:** Per FCC guidance, for simultaneous transmission evaluation, using SAR sum and SPLSR for simultaneous transmit exclusion analyses and evaluations.

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### 4.3 Test position

#### Laptop mode SAR test position (0mm)

For laptop PC, according to KDB 616217 D04, SAR evaluation is required for the bottom surface of the keyboard. This EUT was tested in the base of EUT directly against the flat phantom. The required minimum test separation distance for incorporating transmitters and antennas into laptop computer display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

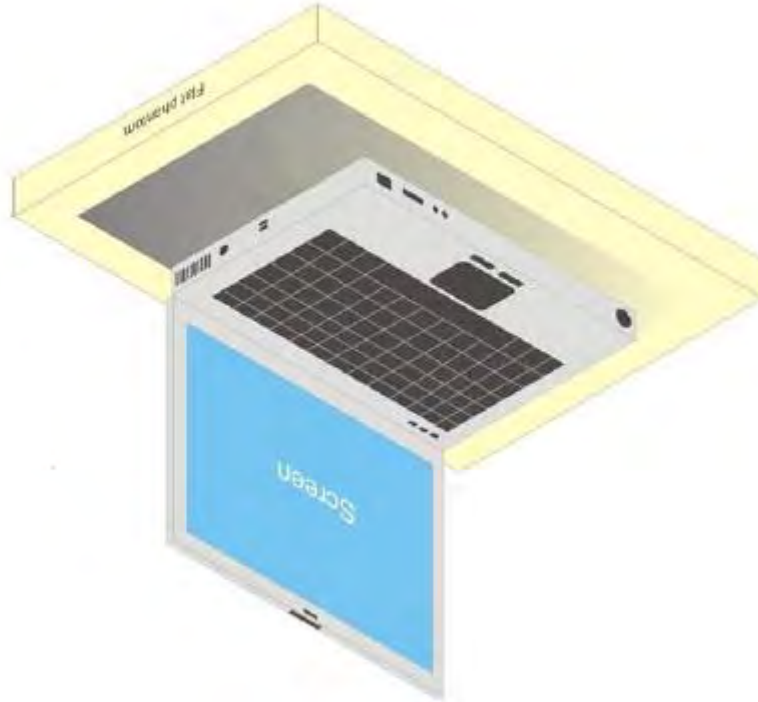


Illustration for Laptop Setup

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#### 4.4 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 4cm<sup>2</sup> 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 <sup>2</sup> )	Averaging time (minutes)
<b>(i) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
<b>(ii) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<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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## 5 MAXIMUM OUTPUT POWER

### 5.1 WLAN

Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	14.50	*NR
		6	2437		14.50	14.15
		11	2462		14.50	*NR
		12	2467		14.50	*NR
		13	2472		13.50	*NR
	802.11g	1	2412	6Mbps	14.50	*NR
		6	2437		14.50	*NR
		11	2462		14.50	*NR
		12	2467		14.50	*NR
		13	2472		11.50	*NR
	802.11n20-HT0	1	2412	MCS0	14.50	*NR
		6	2437		14.50	*NR
		11	2462		14.50	*NR
		12	2467		14.00	*NR
		13	2472		9.50	*NR
	802.11ax20-HE0	1	2412	MCS0	14.50	*NR
		6	2437		14.50	*NR
		11	2462		14.50	*NR
		12	2467		14.00	*NR
		13	2472		10.00	*NR
	802.11n40-HT0	3	2422	MCS0	14.50	*NR
		6	2437		14.50	*NR
		9	2452		14.50	*NR
		10	2457		12.00	*NR
		11	2462		10.00	*NR
	802.11ax40-HE0	3	2422	MCS0	14.50	*NR
		6	2437		14.50	*NR
		9	2452		14.50	*NR
10		2457	12.50		*NR	
11		2462	10.00		*NR	

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Main						
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	*NR
		40	5200		15.00	*NR
		44	5220		15.00	*NR
		48	5240		15.00	*NR
	802.11n20-HT0	36	5180	MCS0	15.00	*NR
		40	5200		15.00	*NR
		44	5220		15.00	*NR
		48	5240		15.00	*NR
	802.11ax20-HE0	36	5180	MCS0	15.00	*NR
		40	5200		15.00	*NR
		44	5220		15.00	*NR
		48	5240		15.00	*NR
	802.11n40-HT0	38	5190	MCS0	15.00	*NR
		46	5230		15.00	14.94
	802.11ax40-HE0	38	5190	MCS0	15.00	*NR
		46	5230		15.00	*NR
802.11ac80-VHT0	42	5210	MCS0	14.00	*NR	
802.11ax80-HE0	42	5210	MCS0	14.00	*NR	
802.11ac160-VHT0	50	5250	MCS0	13.50	*NR	
802.11ax160-HE0	50	5250	MCS0	13.50	*NR	

Main						
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	*NR
		56	5280		15.00	*NR
		60	5300		15.00	*NR
		64	5320		15.00	*NR
	802.11n20-HT0	52	5260	MCS0	15.00	*NR
		56	5280		15.00	*NR
		60	5300		15.00	*NR
		64	5320		15.00	*NR
	802.11ax20-HE0	52	5260	MCS0	15.00	*NR
		56	5280		15.00	*NR
		60	5300		15.00	*NR
		64	5320		15.00	*NR
	802.11n40-HT0	54	5270	MCS0	15.00	14.93
		62	5310		15.00	*NR
	802.11ax40-HE0	54	5270	MCS0	15.00	*NR
		62	5310		15.00	*NR
802.11ac80-VHT0	58	5290	MCS0	14.50	*NR	
802.11ax80-HE0	58	5290	MCS0	14.50	*NR	

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	13.00	*NR
		120	5600		13.00	*NR
		140	5700		13.00	*NR
		144	5720		13.00	*NR
	802.11n20-HT0	MCS0	100	5500	13.00	*NR
			120	5600	13.00	*NR
			140	5700	13.00	*NR
			144	5720	13.00	*NR
	802.11ax20-HE0	MCS0	100	5500	13.00	*NR
			120	5600	13.00	*NR
			140	5700	13.00	*NR
			144	5720	13.00	*NR
	802.11n40-HT0	MCS0	102	5510	13.00	*NR
			118	5590	13.00	*NR
			134	5670	13.00	*NR
			142	5710	13.00	*NR
	802.11ax40-HE0	MCS0	102	5510	13.00	*NR
			118	5590	13.00	*NR
			134	5670	13.00	*NR
			142	5710	13.00	*NR
	802.11ac80-VHT0	MCS0	106	5530	13.00	*NR
			122	5610	13.00	*NR
			138	5690	13.00	*NR
	802.11ax80-HE0	MCS0	106	5530	13.00	*NR
			122	5610	13.00	*NR
			138	5690	13.00	*NR
	802.11ac160-VHT0	MCS0	114	5570	12.50	*NR
	802.11ax160-HE0	MCS0	114	5570	13.00	12.69

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Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	13.00	*NR
		157	5785		13.00	*NR
		165	5825		13.00	*NR
	802.11n20-HT0	149	5745	MCS0	13.00	*NR
		157	5785		13.00	*NR
		165	5825		13.00	*NR
	802.11ax20-HE0	149	5745	MCS0	13.00	*NR
		157	5785		13.00	*NR
		165	5825		13.00	*NR
	802.11n40-HT0	151	5755	MCS0	13.00	*NR
		159	5795		13.00	*NR
	802.11ax40-HE0	151	5755	MCS0	13.00	*NR
		159	5795		13.00	*NR
	802.11ac80-VHT0	155	5775	MCS0	13.00	*NR
802.11ax80-HE0	155	5775	MCS0	13.00	*NR	

Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	13.00	*NR
		173	5865		13.00	*NR
		177	5885		13.00	*NR
	802.11n20-HT0	169	5845	MCS0	13.00	*NR
		173	5865		13.00	*NR
		177	5885		13.00	*NR
	802.11ax20-HE0	169	5845	MCS0	13.00	*NR
		173	5865		13.00	*NR
		177	5885		13.00	*NR
	802.11n40-HT0	167	5835	MCS0	13.00	*NR
		175	5875		13.00	*NR
	802.11ax40-HE0	167	5835	MCS0	13.00	*NR
		175	5875		13.00	*NR
	802.11ac80-VHT0	171	5855	MCS0	13.00	*NR
	802.11ax80-HE0	171	5855	MCS0	13.00	*NR
	802.11ac160-VHT0	163	5815	MCS0	13.00	12.92
802.11ax160-HE0	163	5815	MCS0	12.50	*NR	

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	14.50	*NR
		6	2437		14.50	14.13
		11	2462		14.50	*NR
		12	2467		14.50	*NR
		13	2472		13.50	*NR
	802.11g	1	2412	6Mbps	14.50	*NR
		6	2437		14.50	*NR
		11	2462		14.50	*NR
		12	2467		14.50	*NR
		13	2472		11.50	*NR
	802.11n20-HT0	1	2412	MCS0	14.50	*NR
		6	2437		14.50	*NR
		11	2462		14.50	*NR
		12	2467		14.00	*NR
		13	2472		9.50	*NR
	802.11ax20-HE0	1	2412	MCS0	14.50	*NR
		6	2437		14.50	*NR
		11	2462		14.50	*NR
		12	2467		14.00	*NR
		13	2472		10.00	*NR
	802.11n40-HT0	3	2422	MCS0	14.50	*NR
		6	2437		14.50	*NR
		9	2452		14.50	*NR
		10	2457		12.00	*NR
		11	2462		10.00	*NR
	802.11ax40-HE0	3	2422	MCS0	14.50	*NR
		6	2437		14.50	*NR
		9	2452		14.50	*NR
		10	2457		12.50	*NR
		11	2462		10.00	*NR

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Aux						
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	*NR
		40	5200		15.00	*NR
		44	5220		15.00	*NR
		48	5240		15.00	*NR
	802.11n20-HT0	36	5180	MCS0	15.00	*NR
		40	5200		15.00	*NR
		44	5220		15.00	*NR
		48	5240		15.00	*NR
	802.11ax20-HE0	36	5180	MCS0	15.00	*NR
		40	5200		15.00	*NR
		44	5220		15.00	*NR
		48	5240		15.00	*NR
	802.11n40-HT0	38	5190	MCS0	15.00	*NR
		46	5230		15.00	14.88
	802.11ax40-HE0	38	5190	MCS0	15.00	*NR
		46	5230		15.00	*NR
802.11ac80-VHT0	42	5210	MCS0	14.00	*NR	
802.11ax80-HE0	42	5210	MCS0	14.00	*NR	
802.11ac160-VHT0	50	5250	MCS0	13.50	*NR	
802.11ax160-HE0	50	5250	MCS0	13.50	*NR	

Aux						
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	*NR
		56	5280		15.00	*NR
		60	5300		15.00	*NR
		64	5320		15.00	*NR
	802.11n20-HT0	52	5260	MCS0	15.00	*NR
		56	5280		15.00	*NR
		60	5300		15.00	*NR
		64	5320		15.00	*NR
	802.11ax20-HE0	52	5260	MCS0	15.00	*NR
		56	5280		15.00	*NR
		60	5300		15.00	*NR
		64	5320		15.00	*NR
	802.11n40-HT0	54	5270	MCS0	15.00	14.93
		62	5310		15.00	*NR
	802.11ax40-HE0	54	5270	MCS0	15.00	*NR
		62	5310		15.00	*NR
802.11ac80-VHT0	58	5290	MCS0	14.50	*NR	
802.11ax80-HE0	58	5290	MCS0	14.50	*NR	

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	13.00	*NR
		120	5600		13.00	*NR
		140	5700		13.00	*NR
		144	5720		13.00	*NR
	802.11n20-HT0	MCS0	100	5500	13.00	*NR
			120	5600	13.00	*NR
			140	5700	13.00	*NR
			144	5720	13.00	*NR
	802.11ax20-HE0	MCS0	100	5500	13.00	*NR
			120	5600	13.00	*NR
			140	5700	13.00	*NR
			144	5720	13.00	*NR
	802.11n40-HT0	MCS0	102	5510	13.00	*NR
			118	5590	13.00	*NR
			134	5670	13.00	*NR
			142	5710	13.00	*NR
	802.11ax40-HE0	MCS0	102	5510	13.00	*NR
			118	5590	13.00	*NR
			134	5670	13.00	*NR
			142	5710	13.00	*NR
	802.11ac80-VHT0	MCS0	106	5530	13.00	*NR
			122	5610	13.00	*NR
			138	5690	13.00	*NR
	802.11ax80-HE0	MCS0	106	5530	13.00	*NR
			122	5610	13.00	*NR
			138	5690	13.00	*NR
	802.11ac160-VHT0	MCS0	114	5570	12.50	*NR
	802.11ax160-HE0	MCS0	114	5570	13.00	12.94

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Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	13.00	*NR
		157	5785		13.00	*NR
		165	5825		13.00	*NR
	802.11n20-HT0	149	5745	MCS0	13.00	*NR
		157	5785		13.00	*NR
		165	5825		13.00	*NR
	802.11ax20-HE0	149	5745	MCS0	13.00	*NR
		157	5785		13.00	*NR
		165	5825		13.00	*NR
	802.11n40-HT0	151	5755	MCS0	13.00	*NR
		159	5795		13.00	*NR
	802.11ax40-HE0	151	5755	MCS0	13.00	*NR
		159	5795		13.00	*NR
	802.11ac80-VHT0	155	5775	MCS0	13.00	*NR
802.11ax80-HE0	155	5775	MCS0	13.00	*NR	
Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	13.00	*NR
		173	5865		13.00	*NR
		177	5885		13.00	*NR
	802.11n20-HT0	169	5845	MCS0	13.00	*NR
		173	5865		13.00	*NR
		177	5885		13.00	*NR
	802.11ax20-HE0	169	5845	MCS0	13.00	*NR
		173	5865		13.00	*NR
		177	5885		13.00	*NR
	802.11n40-HT0	167	5835	MCS0	13.00	*NR
		175	5875		13.00	*NR
	802.11ax40-HE0	167	5835	MCS0	13.00	*NR
		175	5875		13.00	*NR
	802.11ac80-VHT0	171	5855	MCS0	13.00	*NR
	802.11ax80-HE0	171	5855	MCS0	13.00	*NR
	802.11ac160-VHT0	163	5815	MCS0	13.00	12.61
802.11ax160-HE0	163	5815	MCS0	12.50	*NR	

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	1.00	*NR
		45	6175		1.00	*NR
		93	6415		1.00	*NR
	802.11ax40-HE0	3	5965	MCS0	3.50	*NR
		43	6165		3.50	*NR
		91	6405		3.50	*NR
	802.11ax80-HE0	7	5985	MCS0	7.00	*NR
		39	6145		7.00	*NR
		87	6385		7.00	*NR
	802.11ax160-HE0	15	6025	MCS0	12.50	12.39
		47	6185		12.50	*NR
		79	6345		12.50	12.24
Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	1.50	*NR
		105	6475		1.50	*NR
		113	6515		1.50	*NR
	802.11ax40-HE0	99	6445	MCS0	4.00	*NR
		107	6485		4.00	*NR
	802.11ax80-HE0	103	6465	MCS0	7.00	*NR
		119	6545		7.00	*NR
	802.11ax160-HE0	111	6505	MCS0	13.00	12.50

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	1.50	*NR
		149	6695		1.50	*NR
		181	6855		1.50	*NR
	802.11ax40-HE0	115	6525	MCS0	4.00	*NR
		147	6685		4.00	*NR
		179	6845		4.00	*NR
	802.11ax80-HE0	135	6625	MCS0	7.00	*NR
		151	6705		7.00	*NR
		167	6785		7.00	*NR
	802.11ax160-HE0	143	6665	MCS0	12.50	12.48
		175	6825		12.50	*NR
	Main					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	2.00	*NR
		209	6995		2.00	*NR
		233	7115		2.00	*NR
	802.11ax40-HE0	187	6885	MCS0	4.50	*NR
		227	7085		4.50	*NR
	802.11ax80-HE0	183	6865	MCS0	7.00	*NR
		199	6945		7.50	*NR
		215	7025		7.50	*NR
	802.11ax160-HE0	207	6985	MCS0	13.00	12.81

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	1.00	*NR
		45	6175		1.00	*NR
		93	6415		1.00	*NR
	802.11ax40-HE0	3	5965	MCS0	3.50	*NR
		43	6165		3.50	*NR
		91	6405		3.50	*NR
	802.11ax80-HE0	7	5985	MCS0	7.00	*NR
		39	6145		7.00	*NR
		87	6385		7.00	*NR
	802.11ax160-HE0	15	6025	MCS0	12.50	12.47
		47	6185		12.50	*NR
		79	6345		12.50	12.43
Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	1.50	*NR
		105	6475		1.50	*NR
		113	6515		1.50	*NR
	802.11ax40-HE0	99	6445	MCS0	4.00	*NR
		107	6485		4.00	*NR
	802.11ax80-HE0	103	6465	MCS0	7.00	*NR
		119	6545		7.00	*NR
	802.11ax160-HE0	111	6505	MCS0	13.00	12.88

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	1.50	*NR
		149	6695		1.50	*NR
		181	6855		1.50	*NR
	802.11ax40-HE0	115	6525	MCS0	4.00	*NR
		147	6685		4.00	*NR
		179	6845		4.00	*NR
	802.11ax80-HE0	135	6625	MCS0	7.00	*NR
		151	6705		7.00	*NR
		167	6785		7.00	*NR
	802.11ax160-HE0	143	6665	MCS0	12.50	12.43
		175	6825		12.50	*NR
	Aux					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	2.00	*NR
		209	6995		2.00	*NR
		233	7115		2.00	*NR
	802.11ax40-HE0	187	6885	MCS0	4.50	*NR
		227	7085		4.50	*NR
	802.11ax80-HE0	183	6865	MCS0	7.00	*NR
		199	6945		7.50	*NR
		215	7025		7.50	*NR
	802.11ax160-HE0	207	6985	MCS0	13.00	12.88

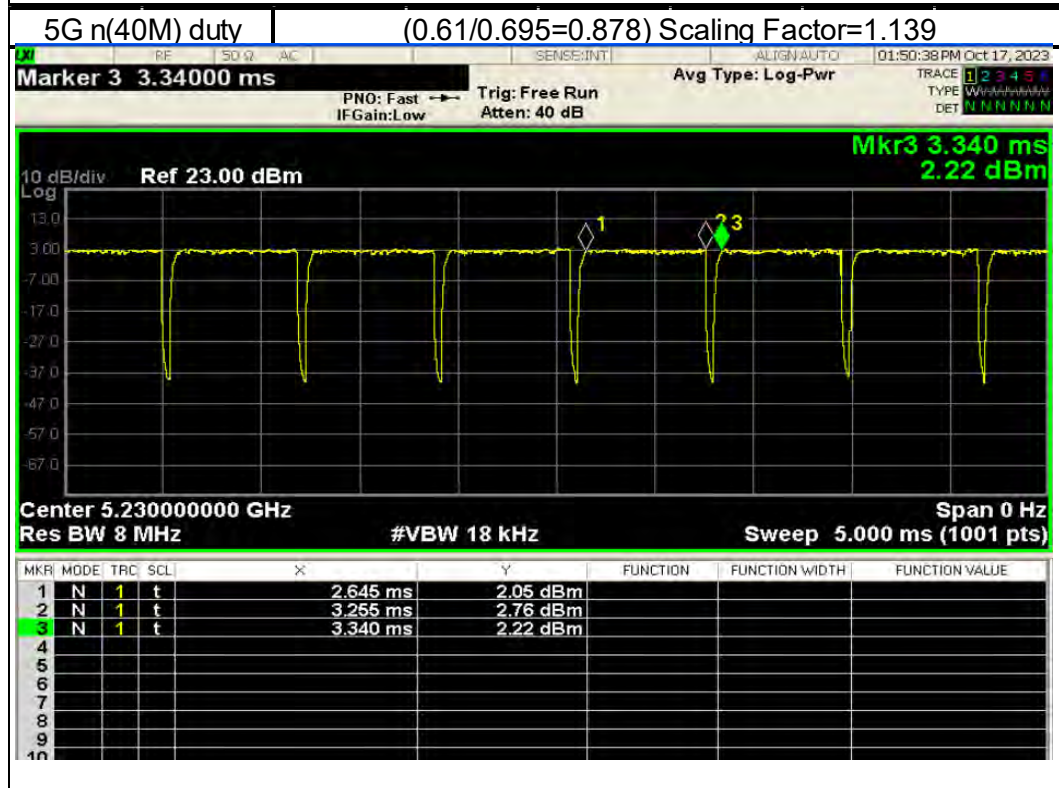
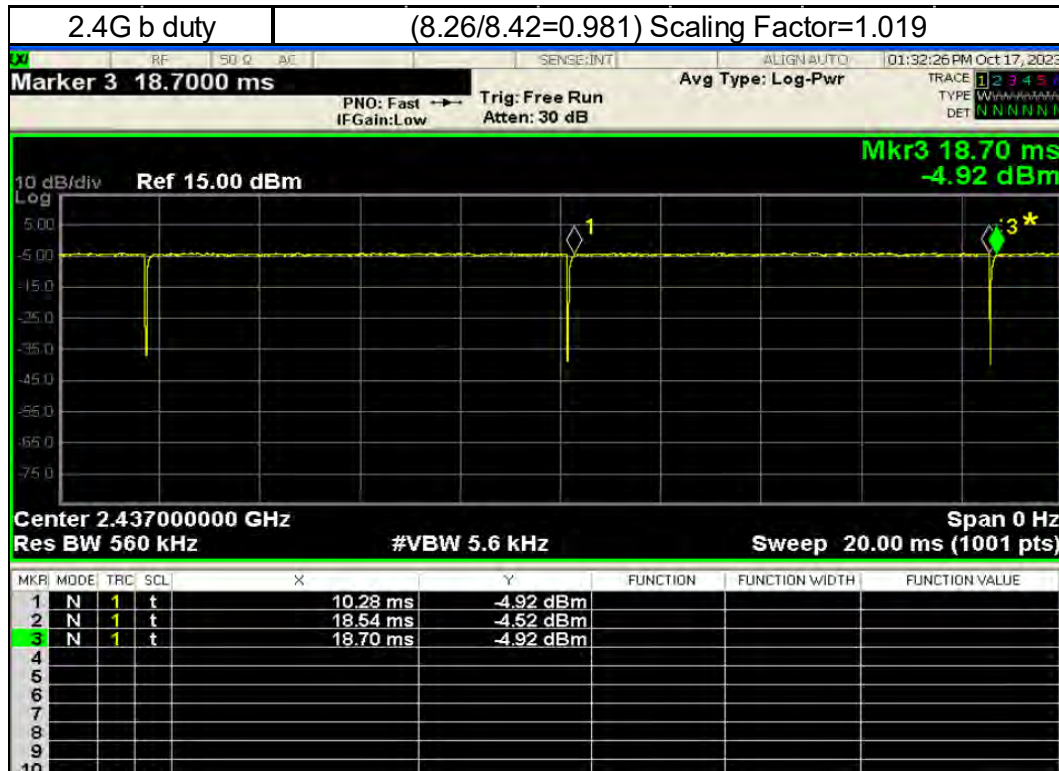
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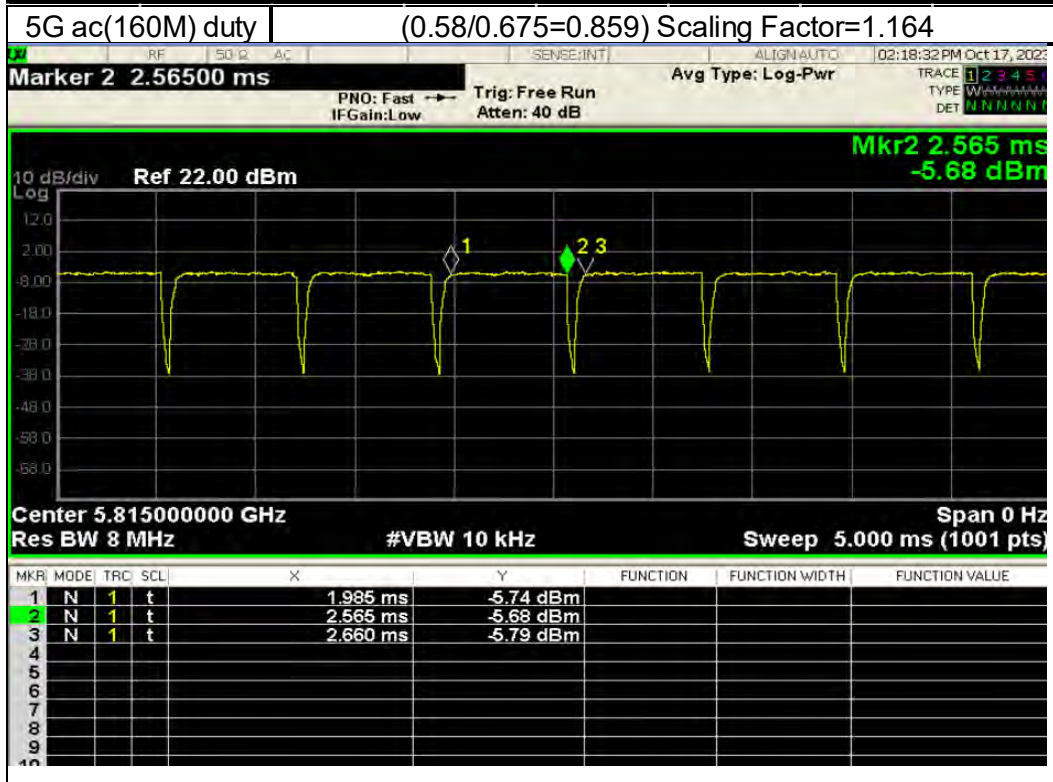
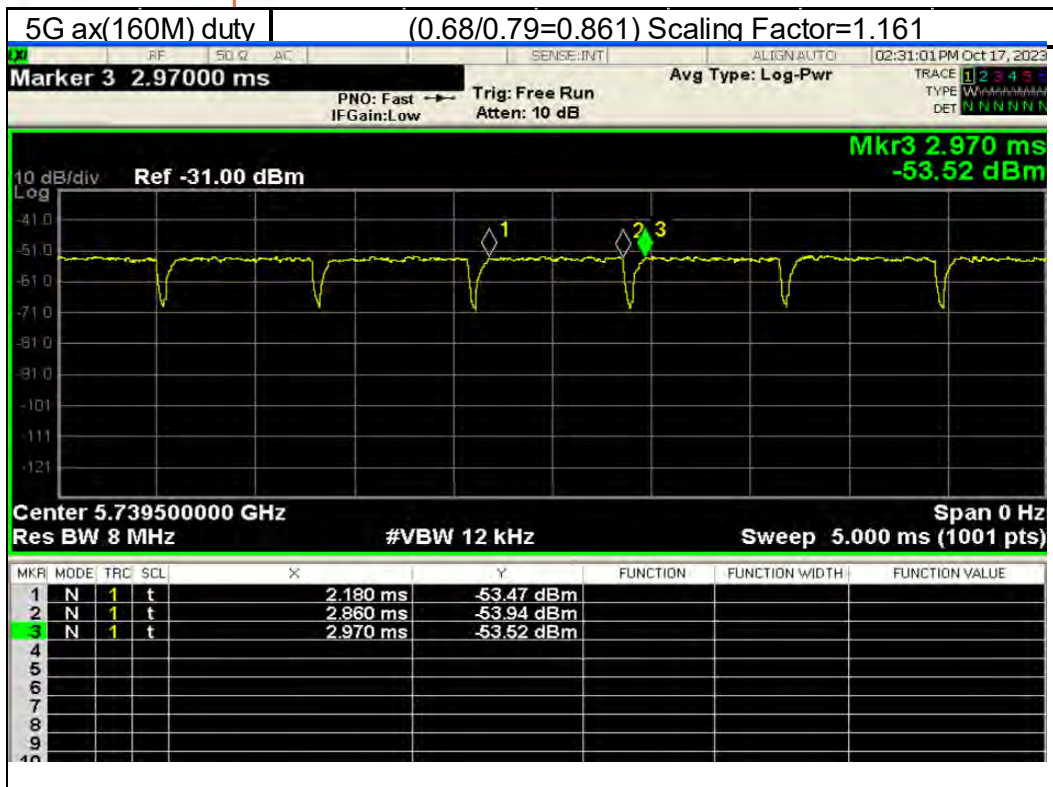
## 6 DUTY CYCLE



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## 7 SUMMARY OF RESULTS

### 7.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

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

### 7.2 Summary of SAR Results

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Main	Bottom Surface	0	6	2437	14.50	14.15	1.02	108.39%	0.206	0.228	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
WLAN 802.11n(40M) 5.2G	Main	Bottom Surface	0	46	5230	15.00	14.94	1.14	101.39%	0.287	0.331	002
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
WLAN 802.11n(40M) 5.3G	Main	Bottom Surface	0	54	5270	15.00	14.93	1.14	101.62%	0.265	0.307	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
WLAN 802.11ax(160M) 5.6G	Main	Bottom Surface	0	114	5570	13.00	12.69	1.16	107.40%	0.171	0.213	004
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
WLAN 802.11ac(160M) 5.9G	Main	Bottom Surface	0	163	5815	13.00	12.92	1.16	101.86%	0.183	0.217	005
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
WLAN 802.11b	Aux	Bottom Surface	0	6	2437	14.50	14.13	1.02	108.89%	0.173	0.192	006
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
WLAN 802.11n(40M) 5.2G	Aux	Bottom Surface	0	46	5230	15.00	14.88	1.14	102.80%	0.093	0.109	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 1g (W/kg)		ID
WLAN 802.11n(40M) 5.3G	Aux	Bottom Surface	0	54	5270	15.00	14.93	1.14	101.62%	0.080	0.093	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
WLAN 802.11ax(160M) 5.6G	Aux	Bottom Surface	0	114	5570	13.00	12.94	1.16	101.39%	0.077	0.091	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 1g (W/kg)		ID
WLAN 802.11ac(160M) 5.9G	Aux	Bottom Surface	0	163	5815	13.00	12.61	1.16	109.40%	0.111	0.141	010

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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)		Estimated APD W/m <sup>2</sup> (4cm <sup>2</sup> )		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz802.11ax(160M)	Main	Bottom Surface	0	15	6025	12.50	12.39	1.17	102.57%	0.232	0.278	1.83	2.190	-
U-NII-5 6.2GHz802.11ax(160M)	Main	Bottom Surface	0	79	6345	12.50	12.24	1.17	106.17%	0.274	0.339	2.04	2.528	011
U-NII-6 6.5GHz802.11ax(160M)	Main	Bottom Surface	0	111	6505	13.00	12.50	1.17	112.20%	0.337	0.441	2.51	3.287	012
U-NII-7 6.7GHz802.11ax(160M)	Main	Bottom Surface	0	143	6665	12.50	12.48	1.17	100.46%	0.352	0.413	2.59	3.036	013
U-NII-8 7.0GHz802.11ax(160M)	Main	Bottom Surface	0	207	6985	13.00	12.81	1.17	104.47%	0.454	0.554	3.29	4.011	014
U-NII-5 6.2GHz802.11ax(160M)	Aux	Bottom Surface	0	15	6025	12.50	12.47	1.17	100.69%	0.173	0.203	1.31	1.539	015
U-NII-5 6.2GHz802.11ax(160M)	Aux	Bottom Surface	0	79	6345	12.50	12.43	1.17	101.62%	0.169	0.200	1.17	1.388	-
U-NII-6 6.5GHz802.11ax(160M)	Aux	Bottom Surface	0	111	6505	13.00	12.88	1.17	102.80%	0.172	0.206	1.19	1.428	016
U-NII-7 6.7GHz802.11ax(160M)	Aux	Bottom Surface	0	143	6665	12.50	12.43	1.17	101.62%	0.166	0.197	1.08	1.281	017
U-NII-8 7.0GHz802.11ax(160M)	Aux	Bottom Surface	0	207	6985	13.00	12.88	1.17	102.80%	0.236	0.283	1.51	1.812	018

**Note:**

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

**7.3 Reporting statements of conformity**

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

**7.4 Conclusion**

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

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## 8 SIMULTANEOUS TRANSMISSION ANALYSIS

### 8.1 Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WLAN 2.4GHz Main + WLAN 2.4GHz Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux	Yes
WLAN 6GHz Main + WLAN 6GHz Aux	Yes

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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  $\leq 0.04$  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

Exposure Position	FCC Reported SAR						Scenario 1	Scenario 2	Scenario 3	
	1	2	3	4	5	6	1+2	3+4	5+6	
	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed	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)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Bottom Surface	0	0.228	0.192	0.331	0.109	0.554	0.283	0.420	0.440	0.837

### 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	877	Mar/22/2023	Mar/21/2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7509	Apr/26/2023	Apr/25/2024
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2023	Apr/24/2024
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/20/2023	Mar/19/2024
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/16/2023	Aug/15/2024
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/16/2023	Aug/15/2024
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/27/2023	Feb/26/2024
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/23/2023	May/22/2024
Agilent	Dual-directional coupler	772D	MY46151258	Sep/26/2023	Sep/25/2024
Agilent	Dual-directional coupler	778D	MY46151242	Sep/26/2023	Sep/25/2024
R&S	Power Meter	NRX	105651	Nov/25/2022	Nov/24/2023
R&S	Power Sensor	NRP6A	104246	Nov/22/2022	Nov/21/2023
R&S	Power Sensor	NRP6A	104247	Nov/22/2022	Nov/21/2023
SPEAG	Software	DASY 6 V16.0.2.136	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 52 V52.10.4.1527	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
TECPEL	Digital thermometer	DTM-303A	TP131515	Jun/02/2023	Jun/01/2024

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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
<b>Measurement system</b>									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<b>Isotropy, Axial</b>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<b>Isotropy, Hemispherical</b>	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%	∞
<b>Measurement drift (class A evaluation)</b>	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 <b>Mechanical restrictions</b>	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%	∞
<b>Test Sample related</b>									
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%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.33%	N	1	1	0.64	0.43	0.85%	0.57%	M
Liquid Conductivity (mea.)	1.73%	N	1	1	0.6	0.49	1.04%	0.85%	M
Combined standard uncertainty		RSS					11.79%	11.75%	
Expant uncertainty (95% confidence interval), K=2							23.59%	23.50%	

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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 Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
<b>Measurement system</b>									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<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%	∞
<b>Measurement drift (class A evaluation)</b>									
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%	∞
<b>Test Sample related</b>									
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%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.60%	N	1	1	0.64	0.43	0.38%	0.26%	M
Liquid Conductivity (mea.)	0.28%	N	1	1	0.6	0.49	0.17%	0.14%	M
Combined standard uncertainty		RSS					11.43%	11.41%	
Expart uncertainty (95% confidence interval), K=2							22.85%	22.82%	

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**DASY6 Uncertainty Budget  
According to IEC/IEEE 62209-1528  
(Frequency band: 6GHz - 10GHz range)**

a	b	c	d		e	e	f=b * e / d	f=b * e / d
Source of Uncertainty	Uncertainty Value (±%)	Probability Distribution	Div.	Div. Value	(ci) 1g	(ci) 10g	Std. uncertainty (1g) (±%)	Std. uncertainty (10g) (±%)
<b>Measurement system errors</b>								
Probe calibration	18.6	N	2	2	1	1	9.3	9.3
Probe Calibration Drift	1.7	R	√3	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	√3	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	√3	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	√3	1.732	1	1	4.4	4.4
Data Acquisition	0.3	N	1	1	1	1	0.3	0.3
RF Ambient	1.8	N	1	1	1	1	1.8	1.8
Probe positioning	0.2	N	1	1	0.67	0.67	0.1	0.1
Data Processing	3.5	N	1	1	1	1	3.5	3.5
<b>Phantom and device errors</b>								
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8
Conductivity (temp.)BB	2.4	R	√3	1.732	0.78	0.71	1.1	1.0
Phantom Permittivity	14.0	R	√3	1.732	0.5	0.5	4.0	4.0
Distance DUT - TSL	2.0	N	1	1	2	2	4.0	4.0
Device Positioning (±0.5mm)	1.0	N	1	1	1	1	1.0	1.0
Device Holder	3.6	N	1	1	1	1	3.6	3.6
DUT Modulationm	2.4	R	√3	1.732	1	1	1.4	1.4
Time-average SAR	0.0	R	√3	1.732	1	1	0.0	0.0
DUT drift	2.5	N	1	1	1	1	2.5	2.5
Val Antenna Unc.	0.0	N	1	1	1	1	0.0	0.0
Unc. Input Power	0.0	N	1	1	1	1	0.0	0.0
<b>Correction to the SAR results</b>								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling		R	√3	1.732	1	1	0.0	0.0
Combined Std. uncertainty							14.0	13.9
Expanded Std. uncertainty (95% confidence interval), K=2							28.0	27.8

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## 11 SAR MEASUREMENT RESULTS

Date: 2023/10/17

ID: 001

Report No. :TESA2309000564EN

WLAN 802.11b\_Body\_Bottom Surface\_CH 6\_0mm\_Main

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.019

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.786$  S/m;  $\epsilon_r = 39.446$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(7.61, 7.61, 8.17) @ 2437 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x111x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.363 W/kg

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

Reference Value = 2.321 V/m; Power Drift = 0.12 dB

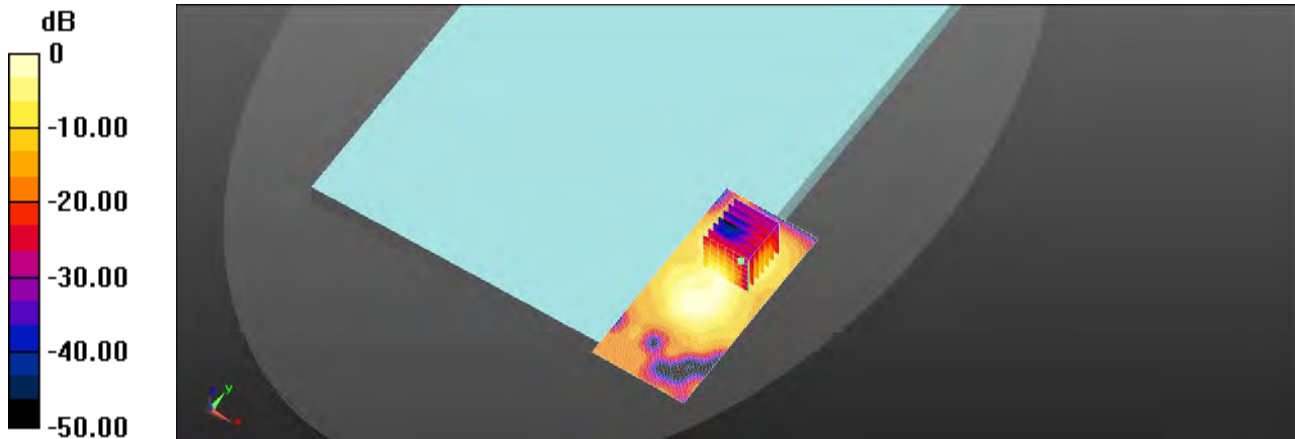
Peak SAR (extrapolated) = 0.436 W/kg

**SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.096 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 44.7%

Maximum value of SAR (measured) = 0.309 W/kg



0 dB = 0.363 W/kg = -4.40 dBW/kg

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Member of SGS Group

Date: 2023/10/17

ID: 002

Report No. :TESA2309000564EN

**WLAN 802.11n(40M) 5.2G\_Body\_Bottom Surface\_CH 46\_0mm\_Main**

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.139

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.654 \text{ S/m}$ ;  $\epsilon_r = 36.206$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.58, 5.65, 6.02) @ 5230 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.464 W/kg

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

Reference Value = 2.106 V/m; Power Drift = 0.11 dB

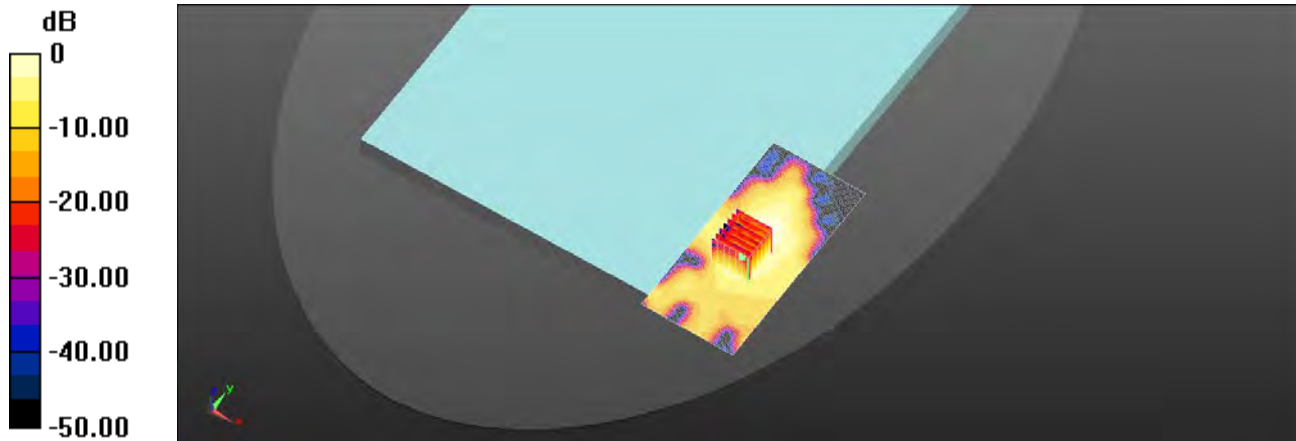
Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.096 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 0.540 W/kg



0 dB = 0.540 W/kg = -2.68 dBW/kg

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Date: 2023/10/17

ID: 003

Report No. :TESA2309000564EN

**WLAN 802.11n(40M) 5.3G\_Body\_Bottom Surface\_CH 54\_0mm\_Main**

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty cycle= 1:1.139

Medium parameters used:  $f = 5270 \text{ MHz}$ ;  $\sigma = 4.712 \text{ S/m}$ ;  $\epsilon_r = 36.154$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.58, 5.65, 6.02) @ 5270 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.433 W/kg

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

Reference Value = 2.143 V/m; Power Drift = 0.07 dB

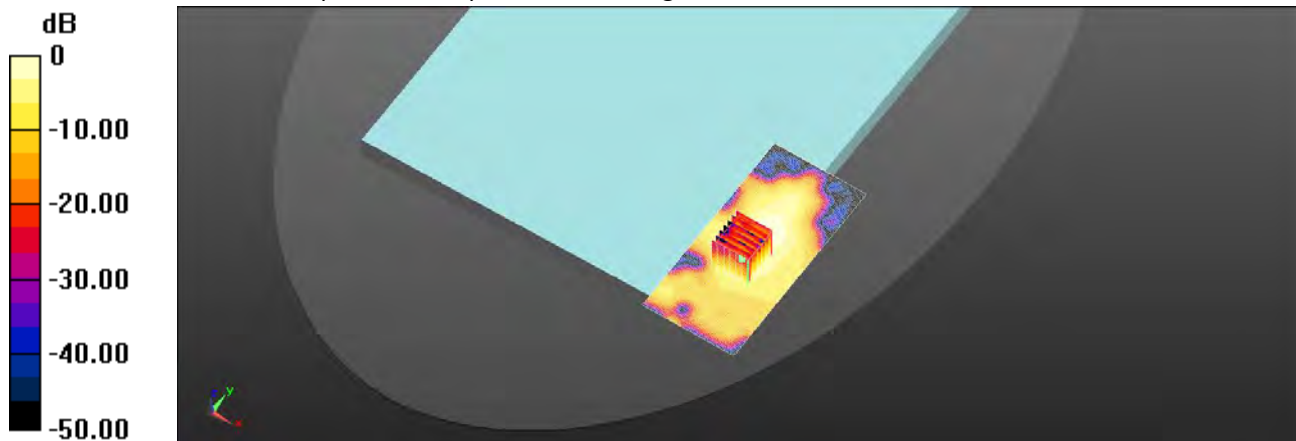
Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.086 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 0.497 W/kg



0 dB = 0.497 W/kg = -3.04 dBW/kg

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Date: 2023/10/17

ID: 004

Report No. :TESA2309000564EN

WLAN 802.11ax(160M) 5.6G\_Body\_Bottom Surface\_CH 114\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.161

Medium parameters used:  $f = 5570 \text{ MHz}$ ;  $\sigma = 5.081 \text{ S/m}$ ;  $\epsilon_r = 35.679$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(4.82, 4.82, 5.14) @ 5570 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.300 W/kg

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

Reference Value = 2.365 V/m; Power Drift = 0.09 dB

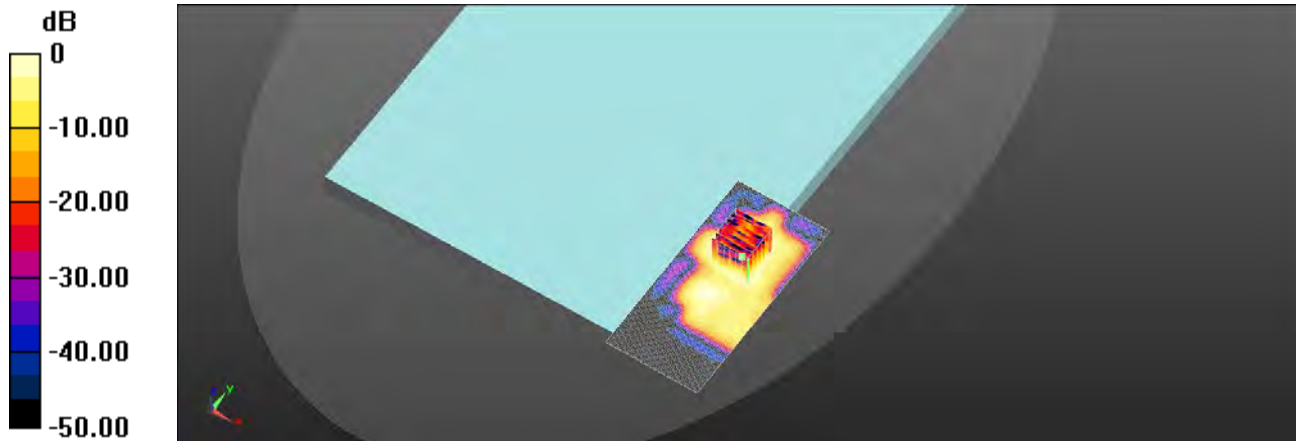
Peak SAR (extrapolated) = 0.653 W/kg

**SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.056 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 0.318 W/kg



0 dB = 0.318 W/kg = -4.98 dBW/kg

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Date: 2023/10/17

ID: 005

Report No. :TESA2309000564EN

WLAN 802.11ac(160M) 5.9G\_Body\_Bottom Surface\_CH 163\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.164

Medium parameters used:  $f = 5815 \text{ MHz}$ ;  $\sigma = 5.339 \text{ S/m}$ ;  $\epsilon_r = 35.025$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.12, 5.16, 5.51) @ 5815 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.322 W/kg

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

Reference Value = 2.832 V/m; Power Drift = 0.12 dB

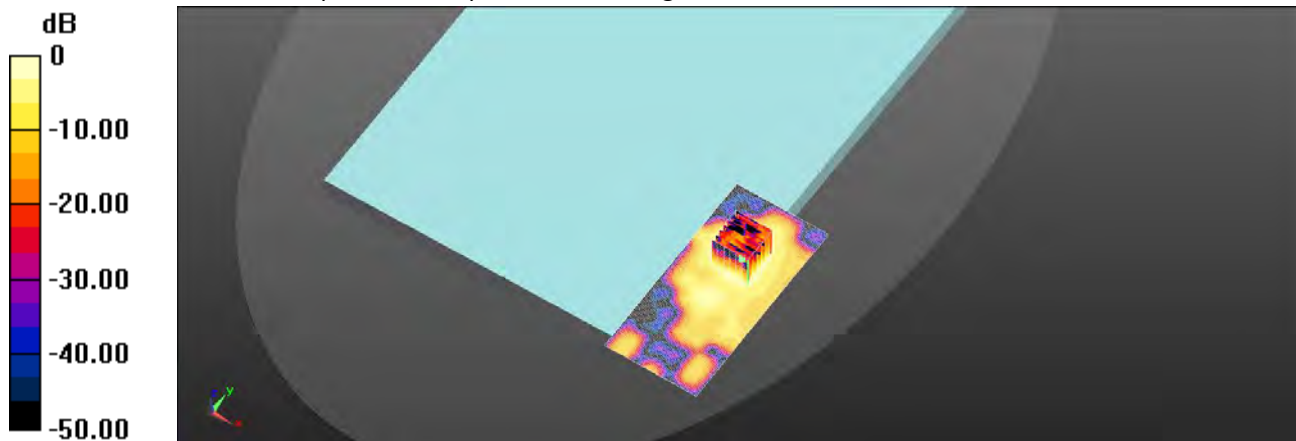
Peak SAR (extrapolated) = 0.709 W/kg

**SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.059 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.1 mm

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

Maximum value of SAR (measured) = 0.333 W/kg



0 dB = 0.333 W/kg = -4.78 dBW/kg

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Member of SGS Group

Date: 2023/10/17

ID: 006

Report No. :TESA2309000564EN

WLAN 802.11b\_Body\_Bottom Surface\_CH 6\_0mm\_Aux

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.019

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.786 \text{ S/m}$ ;  $\epsilon_r = 39.446$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(7.61, 7.61, 8.17) @ 2437 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x111x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.317 W/kg

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

Reference Value = 3.142 V/m; Power Drift = 0.15 dB

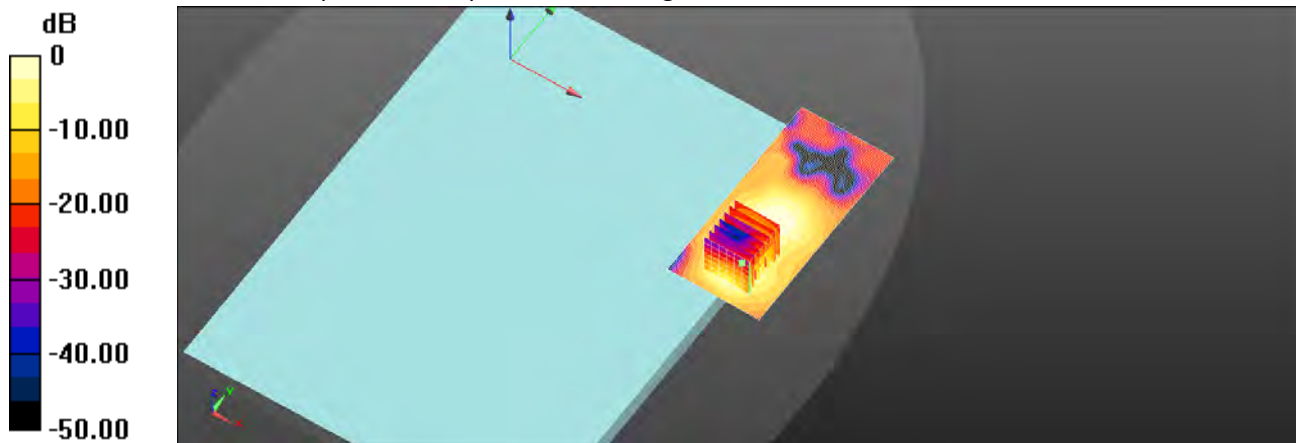
Peak SAR (extrapolated) = 0.383 W/kg

**SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.085 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.5 mm

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

Maximum value of SAR (measured) = 0.274 W/kg



0 dB = 0.317 W/kg = -4.99 dBW/kg

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Date: 2023/10/17

ID: 007

Report No. :TESA2309000564EN

WLAN 802.11n(40M) 5.2G\_Body\_Bottom Surface\_CH 46\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.139

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.654 \text{ S/m}$ ;  $\epsilon_r = 36.206$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.58, 5.65, 6.02) @ 5230 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.244 W/kg

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

Reference Value = 2.957 V/m; Power Drift = 0.01 dB

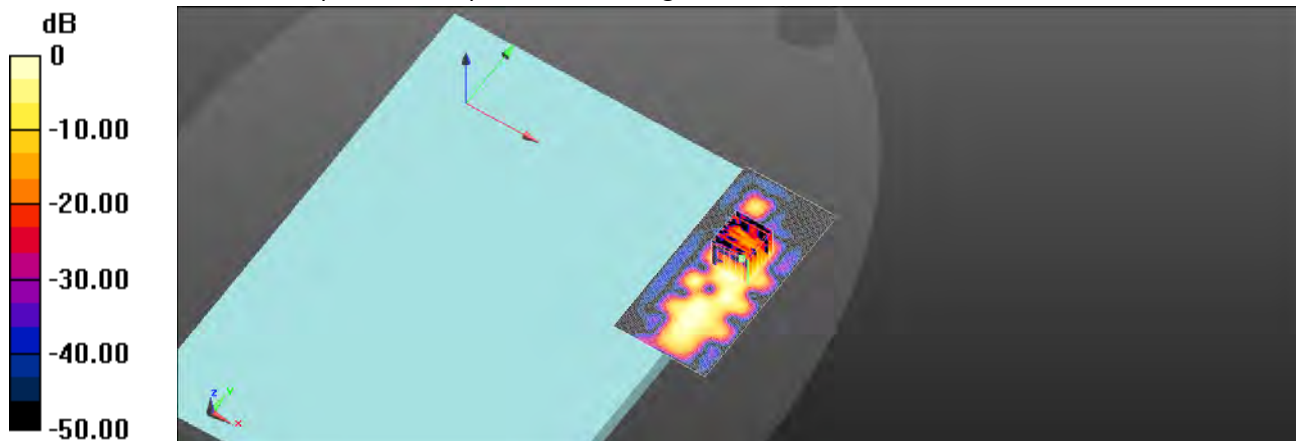
Peak SAR (extrapolated) = 0.337 W/kg

**SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.024 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 0.186 W/kg



0 dB = 0.186 W/kg = -7.30 dBW/kg

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Date: 2023/10/17

ID: 008

Report No. :TESA2309000564EN

WLAN 802.11n(40M) 5.3G\_Body\_Bottom Surface\_CH 54\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty cycle= 1:1.139

Medium parameters used:  $f = 5270 \text{ MHz}$ ;  $\sigma = 4.712 \text{ S/m}$ ;  $\epsilon_r = 36.154$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.58, 5.65, 6.02) @ 5270 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.220 W/kg

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

Reference Value = 3.095 V/m; Power Drift = 0.06 dB

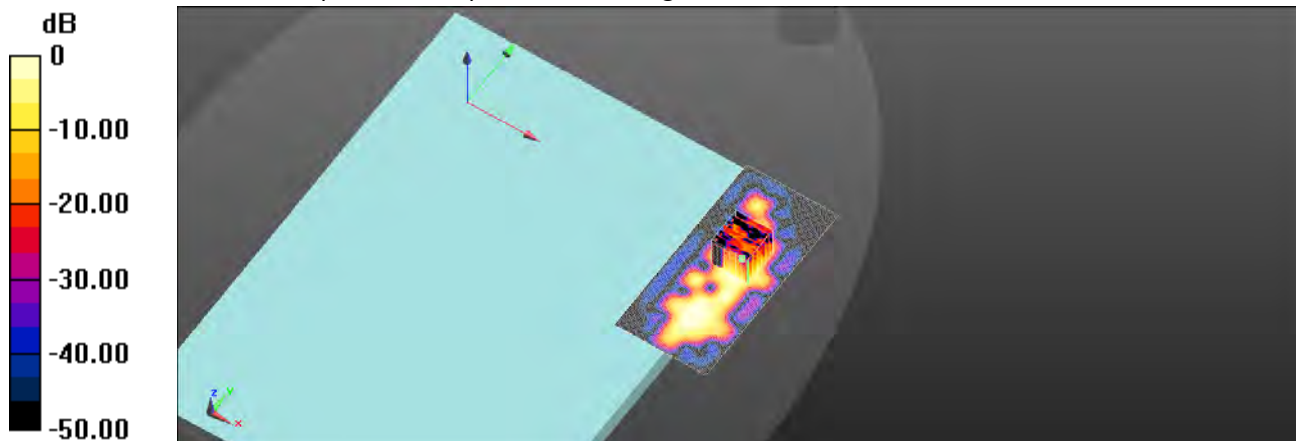
Peak SAR (extrapolated) = 0.308 W/kg

**SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.020 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 0.173 W/kg



0 dB = 0.173 W/kg = -7.62 dBW/kg

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Date: 2023/10/17

ID: 009

Report No. :TESA2309000564EN

**WLAN 802.11ax(160M) 5.6G\_Body\_Bottom Surface\_CH 114\_0mm\_Aux**

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.161

Medium parameters used:  $f = 5570 \text{ MHz}$ ;  $\sigma = 5.081 \text{ S/m}$ ;  $\epsilon_r = 35.679$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(4.82, 4.82, 5.14) @ 5570 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.274 W/kg

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

Reference Value = 3.362 V/m; Power Drift = 0.09 dB

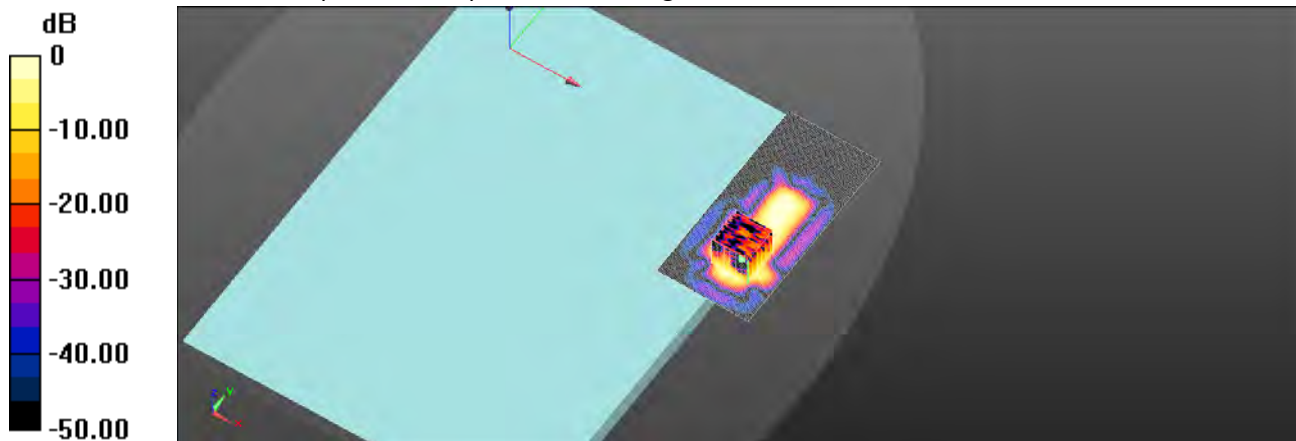
Peak SAR (extrapolated) = 0.296 W/kg

**SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.024 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 0.150 W/kg



0 dB = 0.150 W/kg = -8.24 dBW/kg

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Date: 2023/10/17

ID: 010

Report No. :TESA2309000564EN

WLAN 802.11ac(160M) 5.9G\_Body\_Bottom Surface\_CH 163\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.164

Medium parameters used:  $f = 5815 \text{ MHz}$ ;  $\sigma = 5.339 \text{ S/m}$ ;  $\epsilon_r = 35.025$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.12, 5.16, 5.51) @ 5815 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.290 W/kg

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

Reference Value = 3.529 V/m; Power Drift = 0.17 dB

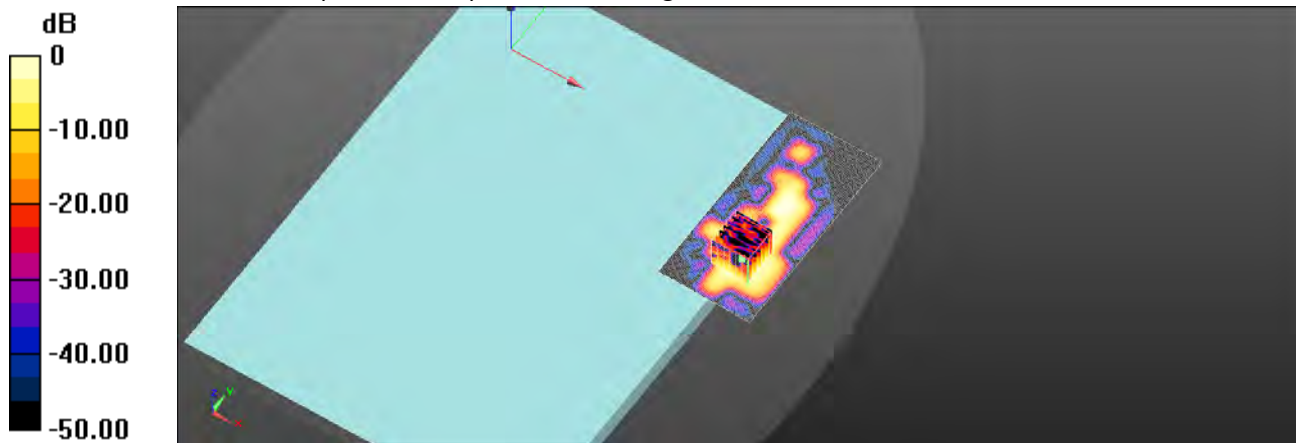
Peak SAR (extrapolated) = 0.396 W/kg

**SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.038 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 0.212 W/kg



0 dB = 0.212 W/kg = -6.74 dBW/kg

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ID: 011

Report No. :TESA2309000564EN

Measurement Report for, Body, Bottom Surface, U-NII-5, Main

IEEE 802.11ax(160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.000 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.17	5.845	34.236

**Hardware Setup**

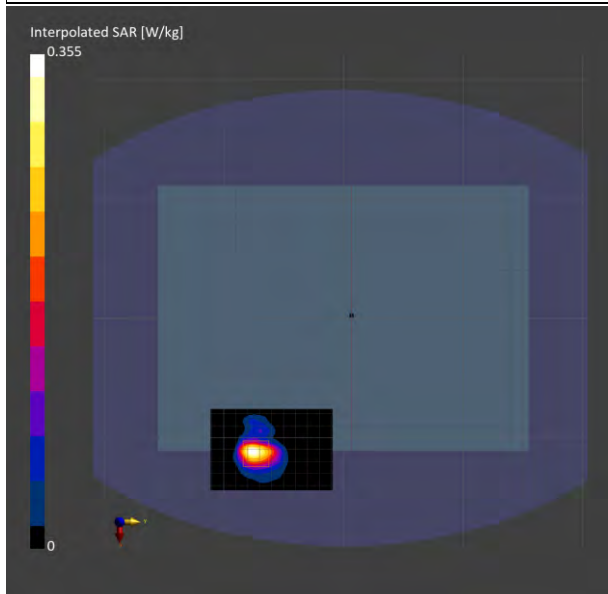
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2023-04-26	DAE4 Sn877, 2023-03-22

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2023-10-18	2023-10-18
psSAR1g [W/kg]	0.257	0.274
psSAR8g [W/kg]	0.098	0.102
psSAR10g [W/kg]	0.086	0.090
psPDab (4.0cm2, sq) [W/m2]		2.04
Power Drift [dB]	0.02	-0.18
M2/M1 [%]		58.4
Dist 3dB Peak [mm]		7.8



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ID: 012

Report No. :TESA2309000564EN

Measurement Report for, Body, Bottom Surface, U-NII-6, Main

IEEE 802.11ax(160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.000 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.17	6.021	34.041

**Hardware Setup**

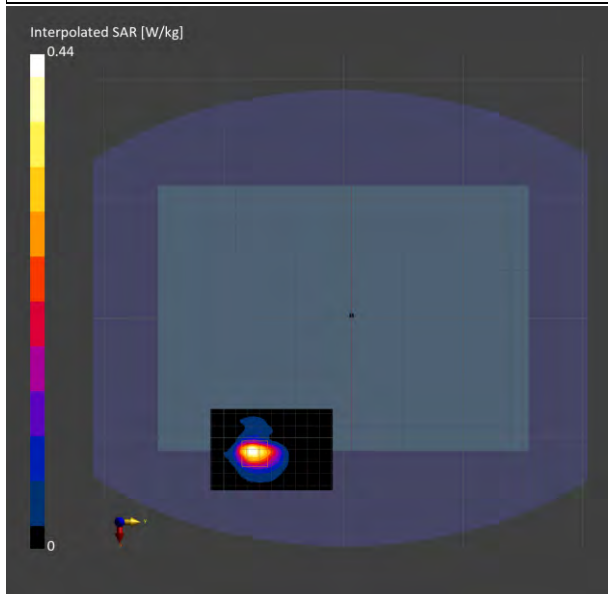
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2023-04-26	DAE4 Sn877, 2023-03-22

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2023-10-18	2023-10-18
psSAR1g [W/kg]	0.320	0.337
psSAR8g [W/kg]	0.120	0.126
psSAR10g [W/kg]	0.105	0.110
psPDab (4.0cm2, sq) [W/m2]		2.51
Power Drift [dB]	0.02	-0.03
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		7.6



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ID: 013

Report No. :TESA2309000564EN

Measurement Report for, Body, Bottom Surface, U-NII-7, Main

IEEE 802.11ax(160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.000 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.17	6.181	33.867

**Hardware Setup**

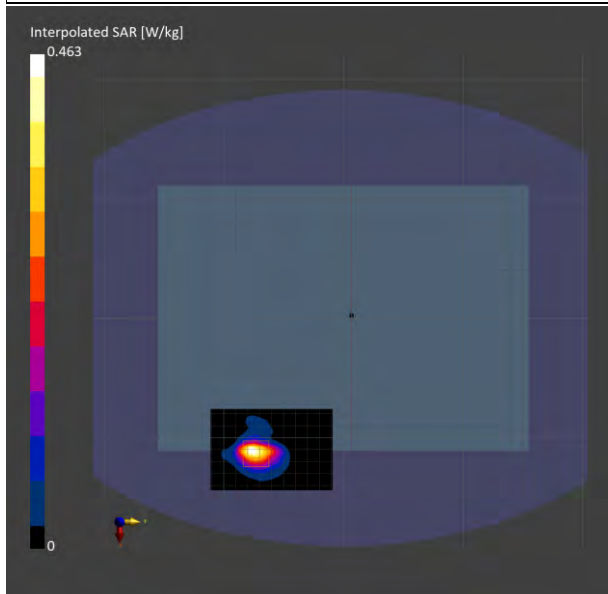
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2023-04-26	DAE4 Sn877, 2023-03-22

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2023-10-18	2023-10-18
psSAR1g [W/kg]	0.339	0.352
psSAR8g [W/kg]	0.126	0.130
psSAR10g [W/kg]	0.111	0.114
psPDab (4.0cm2, sq) [W/m2]		2.59
Power Drift [dB]	0.03	-0.01
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		6.9



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ID: 014

Report No. :TESA2309000564EN

Measurement Report for, Body, Bottom Surface, U-NII-8, Main

Ambient temperature: 22.0°C; Liquid temperature: 21.6°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.45	6.523	33.499

**Hardware Setup**

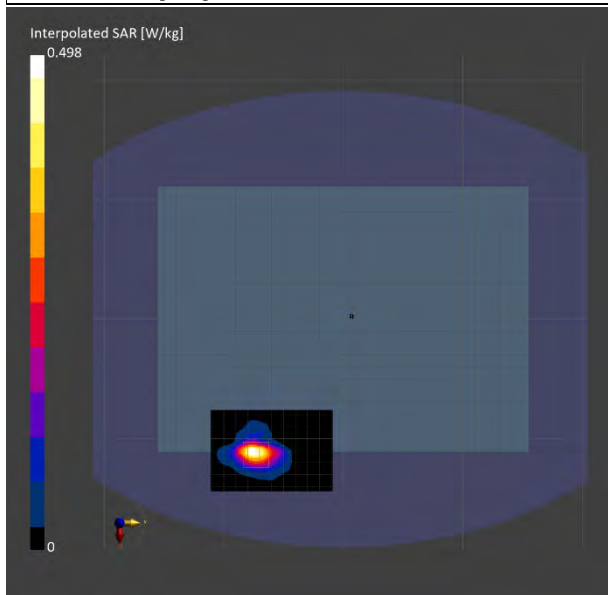
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2023-04-26	DAE4 Sn877, 2023-03-22

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2023-10-18	2023-10-18
psSAR1g [W/kg]	0.462	0.454
psSAR8g [W/kg]	0.177	0.165
psSAR10g [W/kg]	0.156	0.144
psPDab (4.0cm2, sq) [W/m2]		3.29
Power Drift [dB]	0.08	0.10
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		7.7



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ID: 015

Report No. :TESA2309000564EN

Measurement Report for, Body, Bottom Surface, U-NII-5, Aux

IEEE 802.11ax(160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.000 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.17	5.561	34.605

**Hardware Setup**

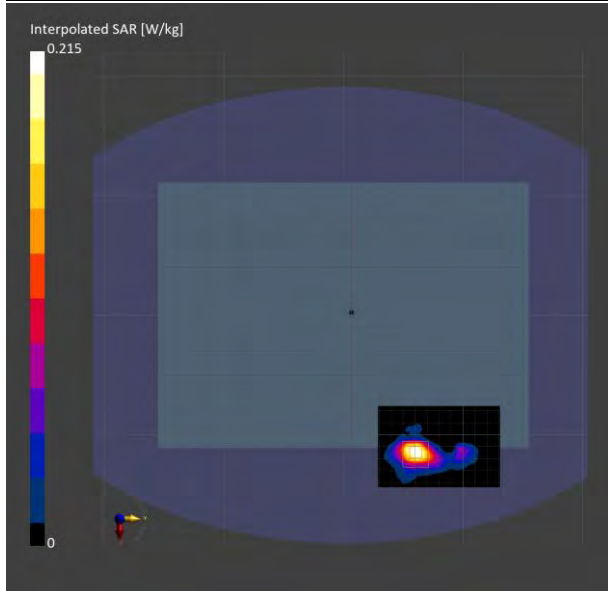
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2023-04-26	DAE4 Sn877, 2023-03-22

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2023-10-18	2023-10-18
psSAR1g [W/kg]	0.162	0.173
psSAR8g [W/kg]	0.061	0.065
psSAR10g [W/kg]	0.053	0.057
psPDab (4.0cm2, sq) [W/m2]		1.31
Power Drift [dB]	0.10	-0.14
M2/M1 [%]		60.5
Dist 3dB Peak [mm]		7.1



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ID: 016

Report No. :TESA2309000564EN

Measurement Report for, Body, Bottom Surface, U-NII-6, Aux

IEEE 802.11ax(160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.000 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.17	6.021	34.041

**Hardware Setup**

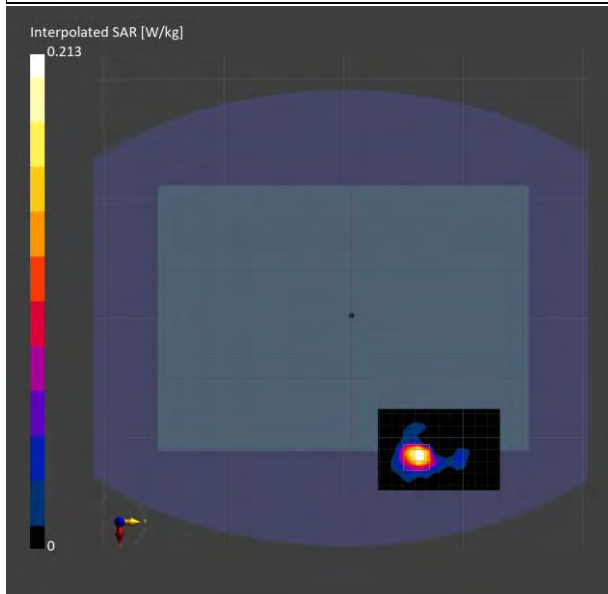
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2023-04-26	DAE4 Sn877, 2023-03-22

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2023-10-18	2023-10-18
psSAR1g [W/kg]	0.164	0.172
psSAR8g [W/kg]	0.060	0.060
psSAR10g [W/kg]	0.052	0.052
psPDab (4.0cm2, sq) [W/m2]		1.19
Power Drift [dB]	0.15	-0.11
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		7.0



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ID: 017

Report No. :TESA2309000564EN

Measurement Report for, Body, Bottom Surface, U-NII-7, Aux

IEEE 802.11ax(160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.000 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.17	6.181	33.867

**Hardware Setup**

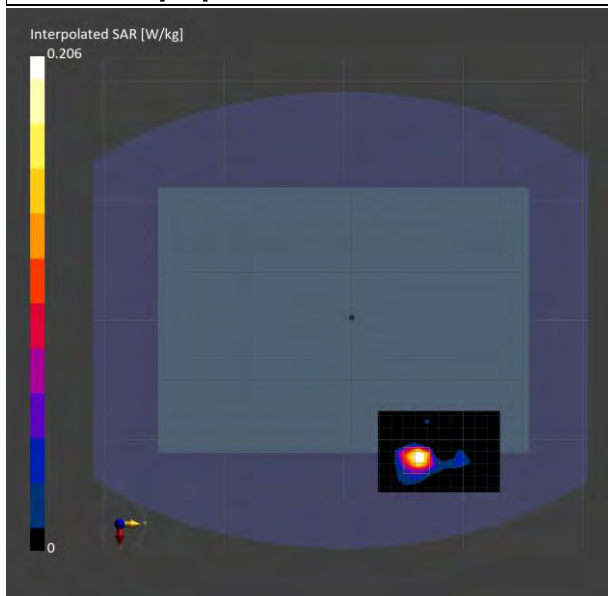
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2023-04-26	DAE4 Sn877, 2023-03-22

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2023-10-18	2023-10-18
psSAR1g [W/kg]	0.160	0.166
psSAR8g [W/kg]	0.056	0.054
psSAR10g [W/kg]	0.049	0.046
psPDab (4.0cm2, sq) [W/m2]		1.08
Power Drift [dB]	0.03	0.06
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		6.9



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ID: 018

Report No. :TESA2309000564EN

Measurement Report for, Body, Bottom Surface, U-NII-8, Aux

IEEE 802.11ax(160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.000 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.45	6.523	33.499

**Hardware Setup**

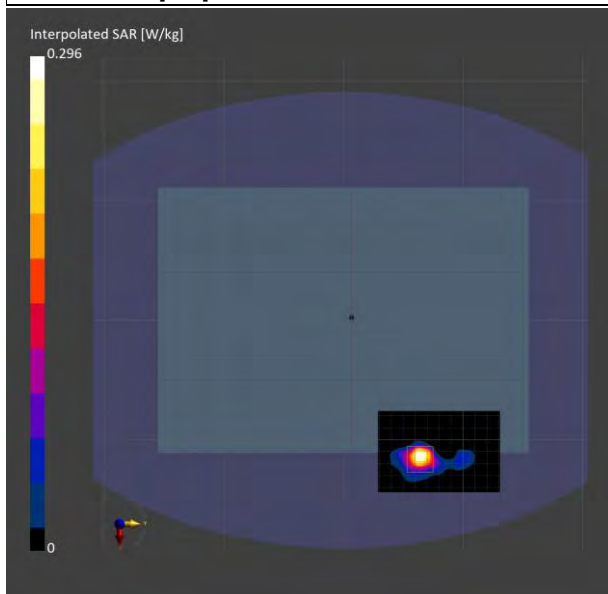
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2023-04-26	DAE4 Sn877, 2023-03-22

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2023-10-18	2023-10-18
psSAR1g [W/kg]	0.236	0.236
psSAR8g [W/kg]	0.081	0.076
psSAR10g [W/kg]	0.070	0.065
psPDab (4.0cm2, sq) [W/m2]		1.51
Power Drift [dB]	0.07	-0.11
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		7.0



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## 12 SAR SYSTEM CHECK RESULTS

Date: 2023/10/17

Report No. :TESA2309000564EN

Dipole 2450 MHz\_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.795$  S/m;  $\epsilon_r = 39.435$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(7.61, 7.61, 8.17) @ 2450 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x61x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.3 W/kg

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

Reference Value = 95.55 V/m; Power Drift = 0.01 dB

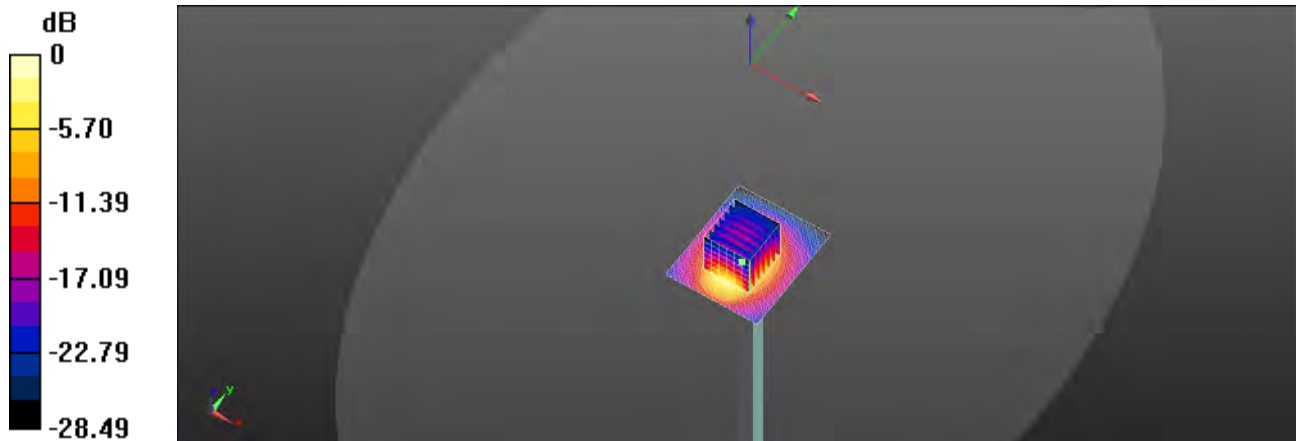
Peak SAR (extrapolated) = 24.7 W/kg

**SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.48 W/kg**

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 19.4 W/kg



0 dB = 21.3 W/kg = 13.29 dBW/kg

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Date: 2023/10/17

**Report No. :TESA2309000564EN**

**Dipole 5250 MHz\_SN:1349**

Communication System: CW; Frequency: 5250 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.699 \text{ S/m}$ ;  $\epsilon_r = 36.006$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.58, 5.65, 6.02) @ 5250 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x61x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 16.1 W/kg

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

Reference Value = 55.82 V/m; Power Drift = 0.04 dB

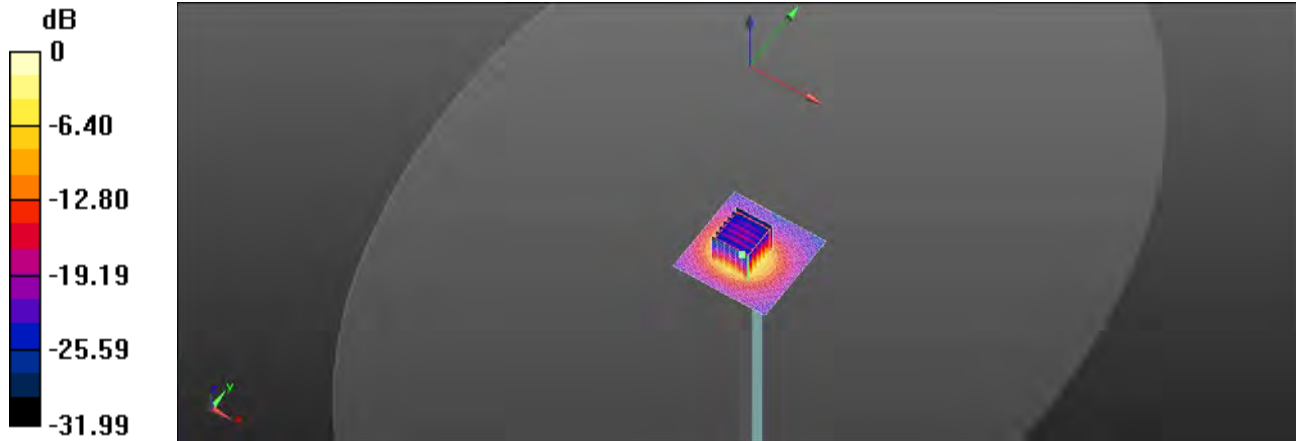
Peak SAR (extrapolated) = 31.3 W/kg

**SAR(1 g) = 8.21 W/kg; SAR(10 g) = 2.41 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 59%

Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 dBW/kg

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Date: 2023/10/17

Report No. :TESA2309000564EN

Dipole 5600 MHz\_SN:1349

Communication System: CW; Frequency: 5600 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.111$  S/m;  $\epsilon_r = 35.668$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(4.82, 4.82, 5.14) @ 5600 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x61x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.4 W/kg

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

Reference Value = 54.77 V/m; Power Drift = 0.13 dB

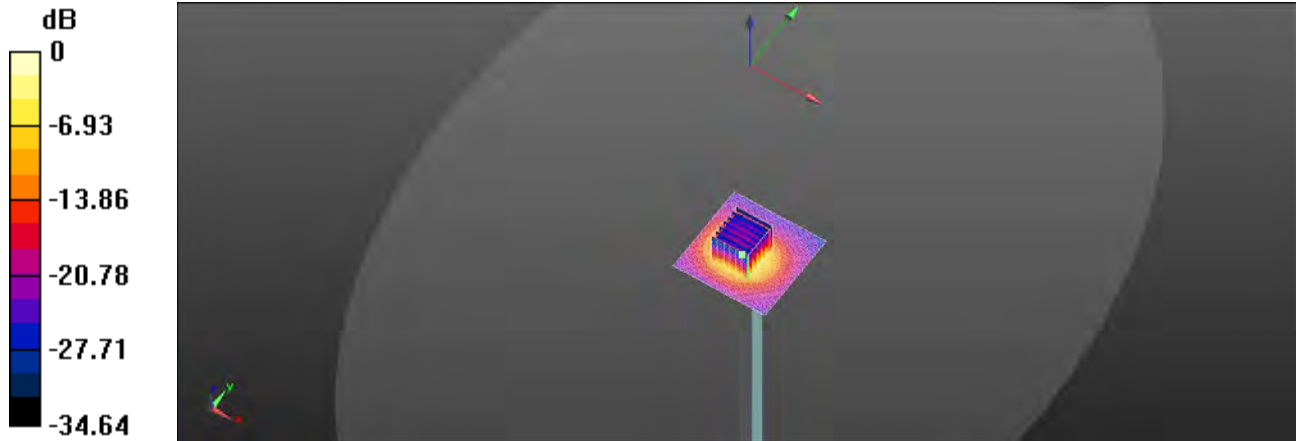
Peak SAR (extrapolated) = 31.5 W/kg

**SAR(1 g) = 8.26 W/kg; SAR(10 g) = 2.41 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 57.8%

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



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

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Date: 2023/10/17

**Report No. :TESA2309000564EN**

**Dipole 5750 MHz\_SN:1349**

Communication System: CW; Frequency: 5750 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 5750 \text{ MHz}$ ;  $\sigma = 5.271 \text{ S/m}$ ;  $\epsilon_r = 35.527$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.12, 5.16, 5.51) @ 5750 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2023/3/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x61x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.8 W/kg

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

Reference Value = 54.53 V/m; Power Drift = 0.17 dB

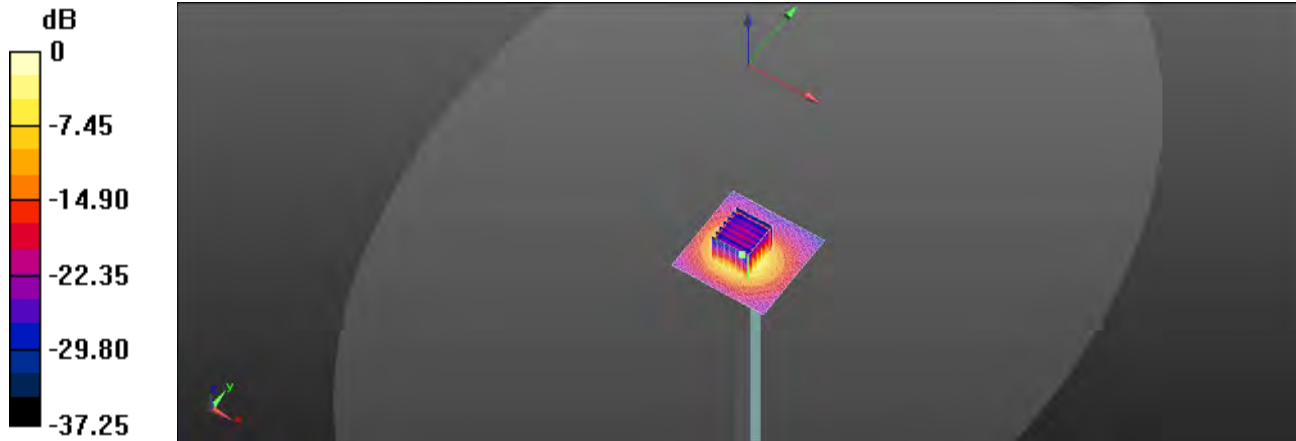
Peak SAR (extrapolated) = 30.5 W/kg

**SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.35 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 58.2%

Maximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg = 12.10 dBW/kg

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Report No. :TESA2309000564EN

Measurement Report for Device, FRONT, Validation band,  
CW, Channel 6500 (6500.000 MHz), SN:1006

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.6	6.008	34.057

**Hardware Setup**

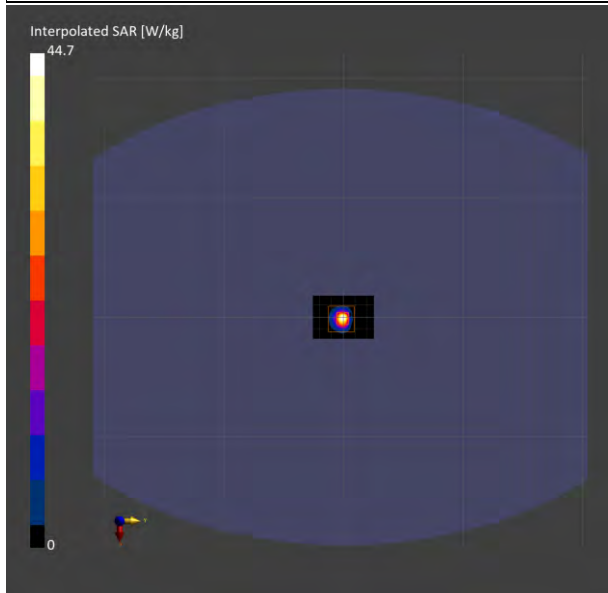
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2023-04-26	DAE4 Sn877, 2023-03-22

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 51.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2023-10-18	2023-10-18
psSAR1g [W/kg]	24.1	29.7
psSAR8g [W/kg]	5.73	6.58
psSAR10g [W/kg]	4.74	5.39
psPDab (4.0cm2, sq) [W/m2]		132
Power Drift [dB]	-0.07	-0.03
M2/M1 [%]		51.2
Dist 3dB Peak [mm]		4.6



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Report No. :TESA2309000564EN

Measurement Report for Device, FRONT, Validation band,  
CW, Channel 7000 (7000.000 MHz), SN:1007

Ambient temperature: 22.0°C; Liquid temperature: 21.6°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.45	6.535	33.496

**Hardware Setup**

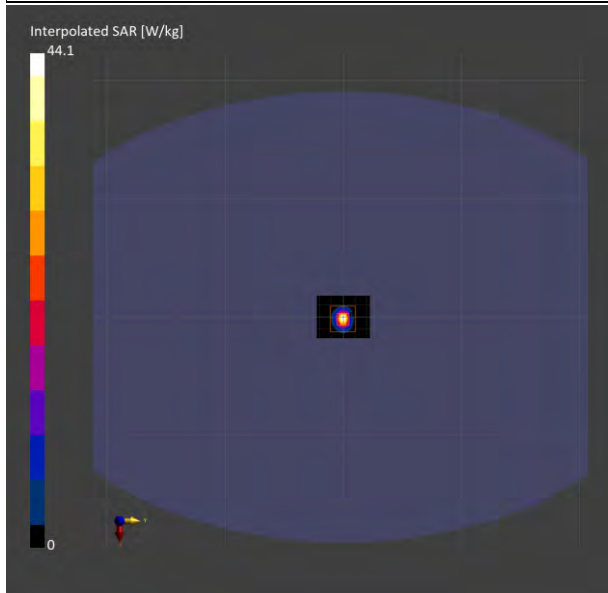
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2023-04-26	DAE4 Sn877, 2023-03-22

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 45.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 7.5	3.0 x 3.0 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2023-10-18	2023-10-18
psSAR1g [W/kg]	24.9	28.2
psSAR8g [W/kg]	5.74	6.18
psSAR10g [W/kg]	4.76	5.06
psPDab (4.0cm2, sq) [W/m2]		124
Power Drift [dB]	0.04	0.02
M2/M1 [%]		51.4
Dist 3dB Peak [mm]		4.7



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## 13 APPENDIXES

**Refer to separated files for the following appendixes.**

- 13.1 SAR\_Appendix A Photographs**
- 13.2 SAR\_Appendix B DAE & Probe Cal. Certificate**
- 13.3 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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