

## RF Exposure report



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

**Product Name** WIFI6E 802.11AX+BT5.2 adapter card  
**Brand Name** Intel® Wi-Fi 6E AX211  
**Model No.** AX211NGW  
**Applicant** ASUSTeK COMPUTER INC.  
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan  
**Standards** IEEE/ANSI C95.1-1992, IEEE 1528-2013  
**FCC ID** MSQAX211NG  
**Date of EUT Receipt** Feb. 17, 2023  
**Date of Test(s)** Feb. 26, 2023  
**Date of Issue** Mar. 23, 2023

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: Mar. 23, 2023**

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2302000095EN	00	Initial creation of document	Mar. 23, 2023	Cindy Chou	

**Note:**

1. The mark " \* " is the revised version of the report due to comments submitted by the certification.
2. Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as identical in hardware and firmware to each other.
3. Measurement results in the original test report TESA2204000049EN are fully leveraged in this test report.
4. According to manufacture provide information and SAR technical judgement, the full function and complex model is B5402FB, could be as representative mode and perform full test, no necessary to perform spot check test for added models(s).
5. Added WLAN 5.9GHz test to this report.

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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

SPEAG DASY6 System Handbook

SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

IEC TR 63170:2018

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## 1.2 Description of EUT

Product Name	WIFI6E 802.11AX+BT5.2 adapter card	
Brand Name	Intel® Wi-Fi 6E AX211	
Model No.	AX211NGW	
FCC ID	MSQAX211NG	
Host Information	Product Type: Expertbook Trade Name: ASUS Model Name: B5402FB, B5402CB, B5402FBA, B5402CBA All models are electrically identical, different model names are for marketing purpose.	
Contain Module	Intel / AX211NGW	
Duty Cycle	WLAN802.11	Please refer to section 7
	Bluetooth	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)
	Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz)

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### 1.3 Maximum value

#### High-Tek

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR1g Body (W/kg)	Highest APD (mW/cm <sup>2</sup> )	Highest PD (mW/cm <sup>2</sup> )
2.4G WLAN	0.87	N/A	N/A
5.2G WLAN	0.68	N/A	N/A
5.3G WLAN	0.64	N/A	N/A
5.6G WLAN	0.77	N/A	N/A
5.8G WLAN	0.97	N/A	N/A
5.9G WLAN	0.89	N/A	N/A
6G WLAN	0.88	0.46	0.44
Bluetooth(GFSK)	0.75	N/A	N/A

#### PULSE

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR1g Body (W/kg)	Highest APD (mW/cm <sup>2</sup> )	Highest PD (mW/cm <sup>2</sup> )
2.4G WLAN	0.91	N/A	N/A
5.2G WLAN	0.54	N/A	N/A
5.3G WLAN	0.52	N/A	N/A
5.6G WLAN	0.68	N/A	N/A
5.8G WLAN	0.81	N/A	N/A
5.9G WLAN	1.10	N/A	N/A
6G WLAN	0.72	0.37	0.35
Bluetooth(GFSK)	0.73	N/A	N/A

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## 1.4 Antenna Information

### WLAN NB mode

Vendor	WLAN Man(PiFA)										WLAN Aux(PiFA)									
Antenna	DC33002R600(OACCN022001N)										DC33002R610(OACCN022002N)									
Part Number	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895	5925-6425	6425-6525	6525-6875	6875-7125	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895	5925-6425	6425-6525	6525-6875	6875-7125
Frequency(MHz)	1.81	3.16	3.16	3.91	4.21	4.21	4.27	3.63	4.17	3.66	2.89	3.13	3.11	4.14	4.22	4.22	4.26	3.72	4.19	3.87
Gain(dBi)																				

### WLAN TB mode

Vendor	WLAN Man(PiFA)										WLAN Aux(PiFA)									
Antenna	DC33002R600(OACCN022001N)										DC33002R610(OACCN022002N)									
Part Number	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895	5925-6425	6425-6525	6525-6875	6875-7125	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895	5925-6425	6425-6525	6525-6875	6875-7125
Frequency(MHz)	1.16	3.07	3.20	4.06	4.14	4.14	3.98	3.25	3.32	3.49	1.81	2.56	3.29	4.31	4.26	4.26	4.39	3.45	3.88	3.11
Gain(dBi)																				

### WLAN NB mode

Vendor	PULSE										PULSE									
Antenna	DC33002R500 (T22381D)										DC33002R510 (T22381E)									
Part Number	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895	5925-6425	6425-6525	6525-6875	6875-7125	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895	5925-6425	6425-6525	6525-6875	6875-7125
Frequency(MHz)	1.07	2.81	2.81	3.70	3.77	3.77	4.09	2.63	3.46	3.22	2.59	2.96	3.00	3.86	3.86	3.86	3.99	3.16	3.70	3.51
Gain(dBi)																				

### WLAN TB mode

Vendor	PULSE										PULSE									
Antenna	DC33002R500 (T22381D)										DC33002R510 (T22381E)									
Part Number	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895	5925-6425	6425-6525	6525-6875	6875-7125	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895	5925-6425	6425-6525	6525-6875	6875-7125
Frequency(MHz)	0.91	2.63	3.06	3.47	3.52	3.52	3.54	2.98	3.11	3.07	1.31	2.17	2.79	4.1	4.06	4.06	3.72	2.68	3.09	2.54
Gain(dBi)																				

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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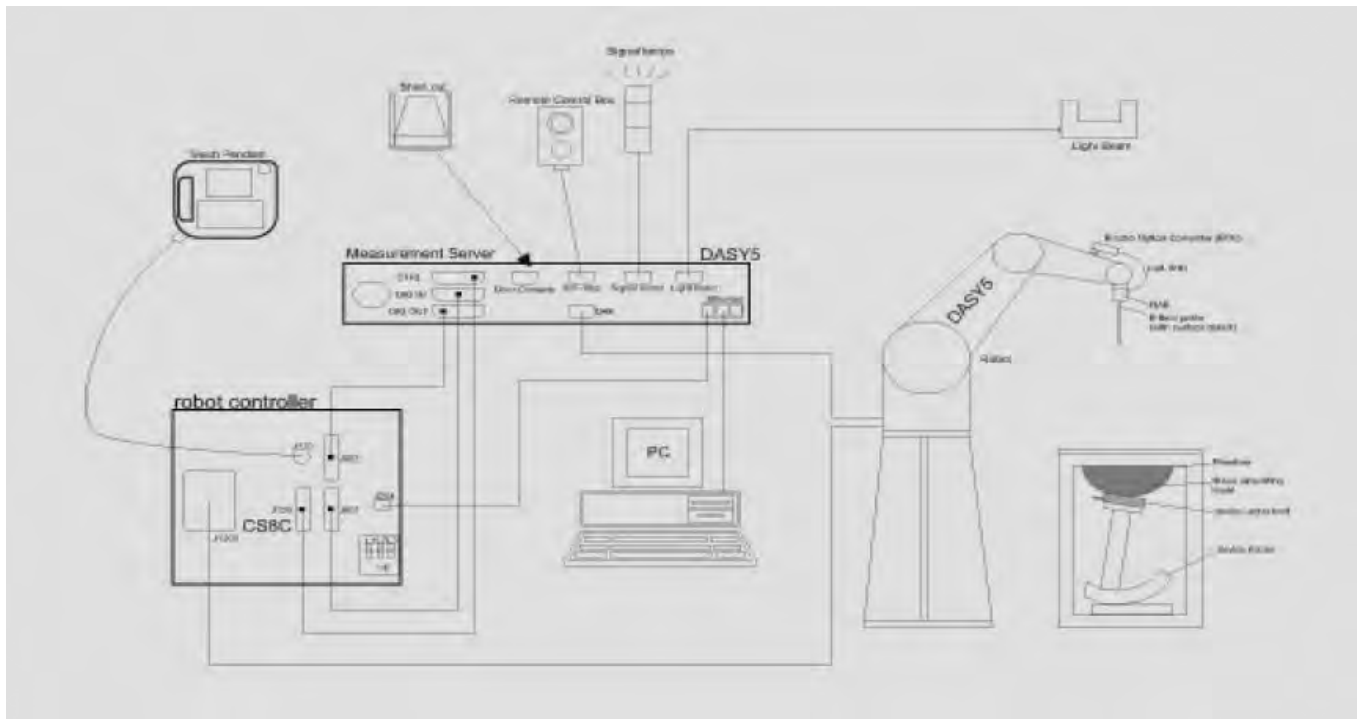
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## 2.2 SAR System

### 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  $SAR = \sigma (|E_i|^2) / \rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.



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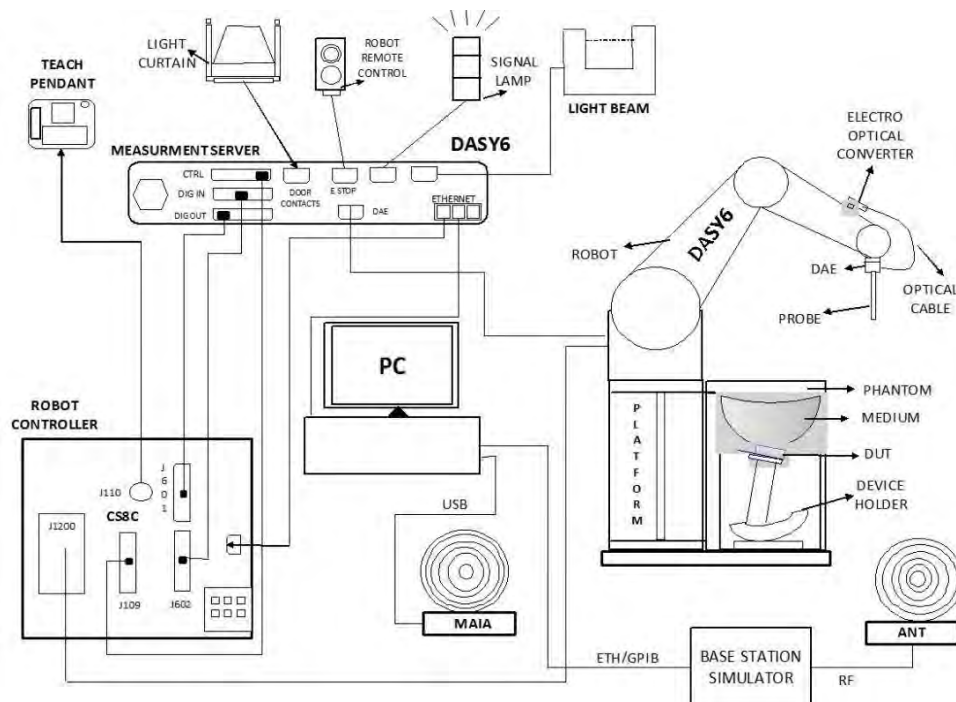
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### Block Diagram (DASY6)

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 (ELI)

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

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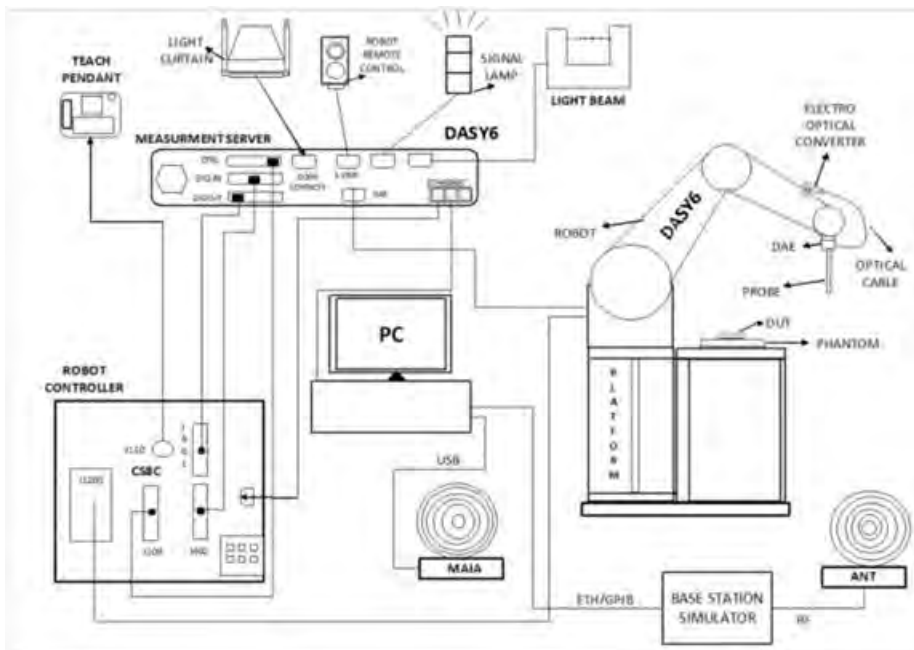
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## 2.3 PD system

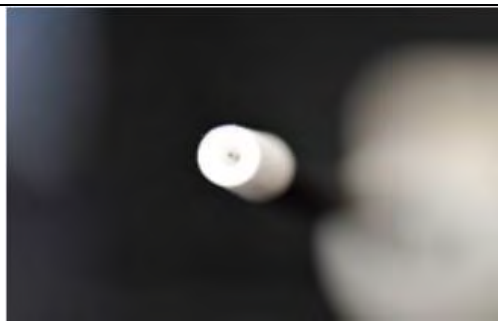
### Block Diagram (DASY6)

Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.



### EUmmWVx probe

The EUmmWVx probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse. The design entails two small 0.8mm dipole sensors mechanically protected by high-density foam, printed on both sides of a 0.9mm wide and 0.12mm thick glass substrate. The body of the probe is specifically constructed to minimize distortion by the scattered fields. The probe consist of two sensors with different angles (1 and 2) arranged in the same plane in the probe axis. Three or more measurements of the two sensors are taken for different probe rotational angles to derive the amplitude and polarization information. The probe design allows measurements at distances as small as 2mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm. The exact distance is calibrated.



Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/ point, 120° rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.

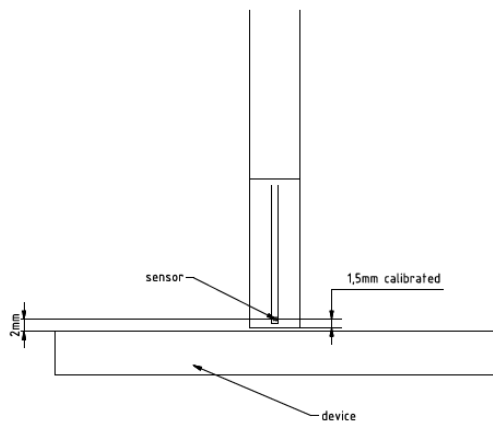
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Frequency Range	750 MHz – 110 GHz
Dynamic Range	< 20 V/m – 10,000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm (DASY6)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: encapsulation 8 mm (internal sensor < 1mm) Distance from probe tip to dipole centers: < 2 mm. Sensor displacement to probe's calibration point: < 0.3 mm
Applications	E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space).Power density, H-field and far-field analysis using total field reconstruction (cDASY6 5G module required)
Compatibility	cDASY6 + 5G-Module SW1.0 and higher



### mmWave Phantom

The mmWave Phantom approximates free-space conditions, allowing for the evaluation of the antenna side of the device and the front (screen) side or any opposite-radiating side of wireless devices operating above 10 GHz without distorting the RF field. It consists of a 40mm thick Rohacell plate used as a test bed, which has a loss tangent ( $\tan \delta$ )  $\leq 0.05$  and a relative permittivity ( $\epsilon_r$ )  $\leq 1.2$ . High-performance RF absorbers are placed below the foam.

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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 reference point (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.

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## 3.3 Measurement results of Tissue Simulant Liquid

## Report No.: TESA2204000049EN

Tissue Type	Measurement Date	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 $\sigma$
Head	May, 04. 2022	2402	39.282	1.757	39.496	1.772	0.54%	0.83%
		2412	39.265	1.766	39.458	1.782	0.49%	0.89%
		2437	39.222	1.788	39.394	1.804	0.44%	0.87%
		2441	39.215	1.792	39.389	1.808	0.44%	0.89%
		2450	39.200	1.800	39.372	1.816	0.44%	0.89%
		2462	39.184	1.813	39.354	1.828	0.43%	0.84%
	May, 05. 2022	2480	39.160	1.832	39.32	1.847	0.41%	0.82%
		5210	35.974	4.665	36.159	4.642	0.51%	-0.50%
		5250	35.950	4.710	36.073	4.687	0.34%	-0.49%
	May, 06. 2022	5290	35.883	4.747	35.946	4.744	0.18%	-0.07%
		5530	35.609	4.993	35.662	5.024	0.15%	0.62%
		5570	35.563	5.034	35.594	5.077	0.09%	0.85%
		5600	35.500	5.070	35.523	5.114	0.06%	0.87%
		5610	35.517	5.075	35.51	5.123	-0.02%	0.94%
	May, 07. 2022	5690	35.426	5.157	35.334	5.215	-0.26%	1.12%
		5750	35.350	5.220	35.157	5.282	-0.55%	1.19%
	May, 05. 2022	5775	35.329	5.244	35.039	5.311	-0.82%	1.27%
		6025	35.070	5.510	36.175	5.66	3.15%	2.73%
		6185	34.878	5.698	35.952	5.857	3.08%	2.79%
		6345	34.686	5.887	35.73	6.052	3.01%	2.80%
		6500	34.500	6.070	35.543	6.242	3.02%	2.83%
		6505	34.494	6.076	35.53	6.249	3.00%	2.85%
		6665	34.302	6.261	35.318	6.44	2.96%	2.85%
		6825	34.110	6.447	35.112	6.623	2.94%	2.73%
		6865	34.062	6.493	35.064	6.671	2.94%	2.74%
		6945	33.966	6.586	34.96	6.77	2.93%	2.79%
	May, 06. 2022	6985	33.918	6.633	34.911	6.816	2.93%	2.77%
		7000	33.900	6.650	34.898	6.835	2.94%	2.78%
		7025	33.870	6.680	34.875	6.865	2.97%	2.78%
		6025	35.070	5.510	36.085	5.632	2.89%	2.22%
		6185	34.878	5.698	35.862	5.825	2.82%	2.22%
		6345	34.686	5.887	35.64	6.022	2.75%	2.29%
		6500	34.500	6.070	35.453	6.21	2.76%	2.31%
		6505	34.494	6.076	35.44	6.217	2.74%	2.32%
		6665	34.302	6.261	35.228	6.408	2.70%	2.34%
		6825	34.110	6.447	35.022	6.593	2.67%	2.26%
		6865	34.062	6.493	34.974	6.64	2.68%	2.26%
		6945	33.966	6.586	34.87	6.738	2.66%	2.30%
		6985	33.918	6.633	34.821	6.786	2.66%	2.31%
		7000	33.900	6.650	34.808	6.802	2.68%	2.29%
		7025	33.870	6.680	34.785	6.834	2.70%	2.31%

## Report No.: TESA2302000095EN

Tissue Type	Measurement Date	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 $\sigma$
Head	Feb, 26. 2023	5750	35.400	5.050	35.024	5.214	-1.06%	3.25%
		5815	35.322	5.131	34.91	5.284	-1.17%	2.99%
		5855	35.274	5.180	34.661	5.328	-1.74%	2.85%

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

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

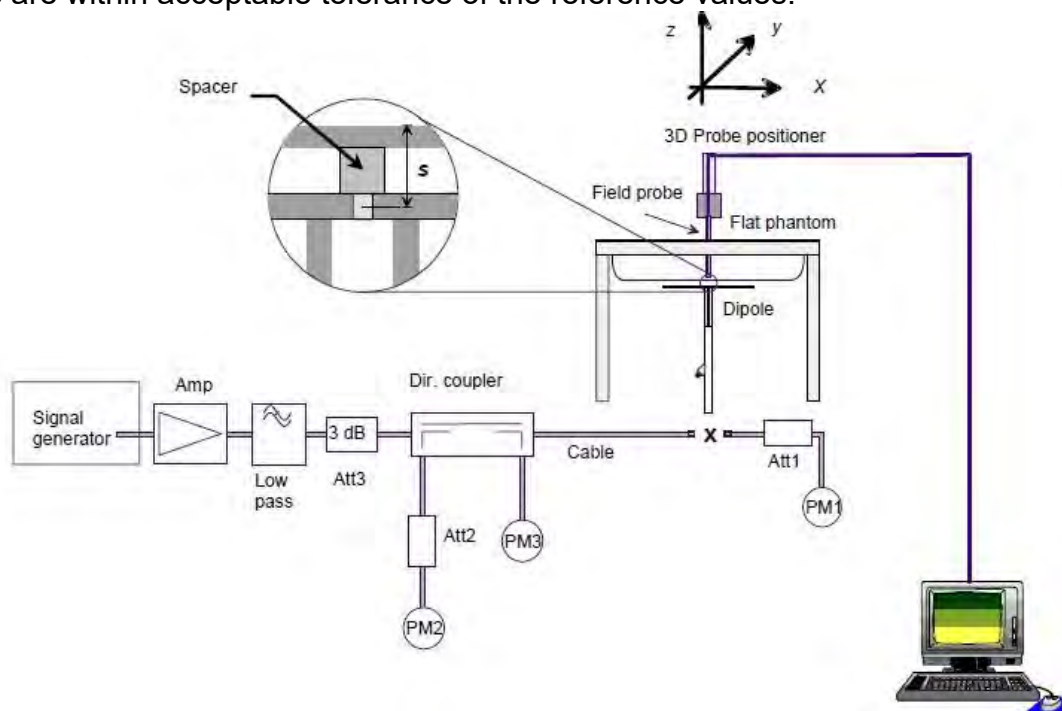
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

### 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

#### Report No.: TESA2204000049EN

Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D2450V2	727	2450	Head	53.9	13.50	54	0.19%	May. 04, 2022
Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D5GHzV2	1023	5250	Head	81	7.98	79.8	-1.48%	May. 05, 2022
		5600	Head	84.4	8.53	85.3	1.07%	May. 06, 2022
		5750	Head	81	8.06	80.6	-0.49%	May. 07, 2022
D6.5GHzV2	1006	6500	Head	291	29.20	292	0.34%	May. 06, 2022
D6.5GHzV2	1006	6500	Head	291	29.40	294	1.03%	May. 05, 2022
D7GHzV2	1007	7000	Head	275	26.60	266	-3.27%	May. 06, 2022
D7GHzV2	1007	7000	Head	275	26.70	267	-2.91%	May. 05, 2022

#### Report No.: TESA2302000095EN

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	5750	80.9	7.79	77.9	-3.71	± 10%	Feb.26,2023

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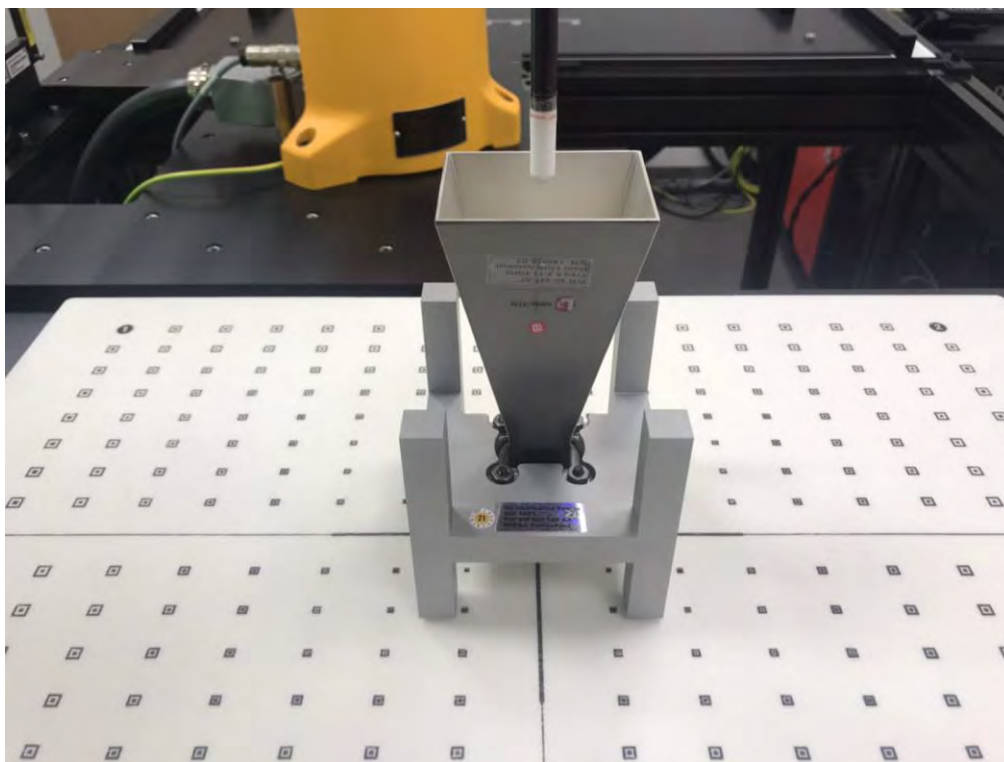
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## 4 PD SYSTEM VERIFICATION

### 4.1 System check

The system was verified to be within  $\pm 0.66$  dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.



System Verification Setup Photo

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## 4.2 System check result

The system was verified to be within  $\pm 0.66$  dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

### Report No.: TESA2204000049EN

Frequency (GHz)	PD Verification Source	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured $4\text{cm}^2$ ( $\text{W/m}^2$ )	Target $4\text{cm}^2$ ( $\text{W/m}^2$ )	Deviation (dB)	Date
10G	10G	9579	558	10	86.1	54.2	51.7	0.21	May. 07, 2022

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## 5 TEST CONFIGURATIONS

### 5.1 Test Environment

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

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

### 5.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is  $\leq 0.8\text{ W/kg}$ , when the transmission band is  $\leq 100\text{ MHz}$ .
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is  $\geq 0.8\text{ W/kg}$ , repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45\text{ W/kg}$  ( $\sim 10\%$  from the 1-g SAR limit).
- **WLAN 2.4GHz:** 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8\text{ W/kg}$ , no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is  $> 0.8\text{ W/kg}$ , SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is  $> 1.2\text{ W/kg}$ , SAR is required for the third channel; i.e., all channels require testing.
- **WLAN 2.4GHz:** 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2\text{ W/kg}$ .
- **WLAN 5GHz:** Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is  $> 0.8\text{ W/kg}$ , SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is  $\leq 1.2\text{ W/kg}$  or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration

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specified maximum output power and the adjusted SAR is  $\leq 1.2$  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  $d=2\text{mm}$  with the grid step ( $0.0625 \lambda$ ) for determining compliance at  $d=2\text{mm}$ .

- **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.

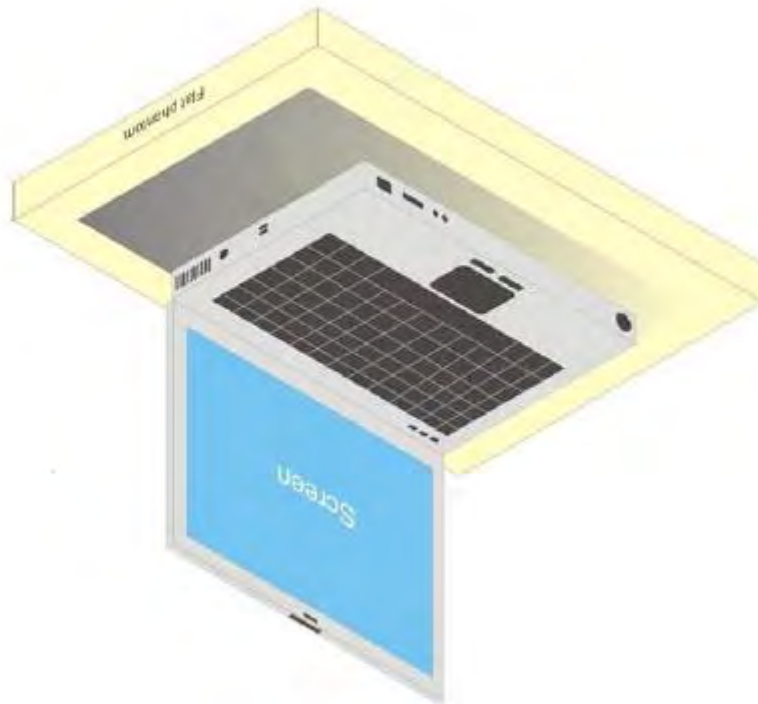
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### 5.3 Test position

#### 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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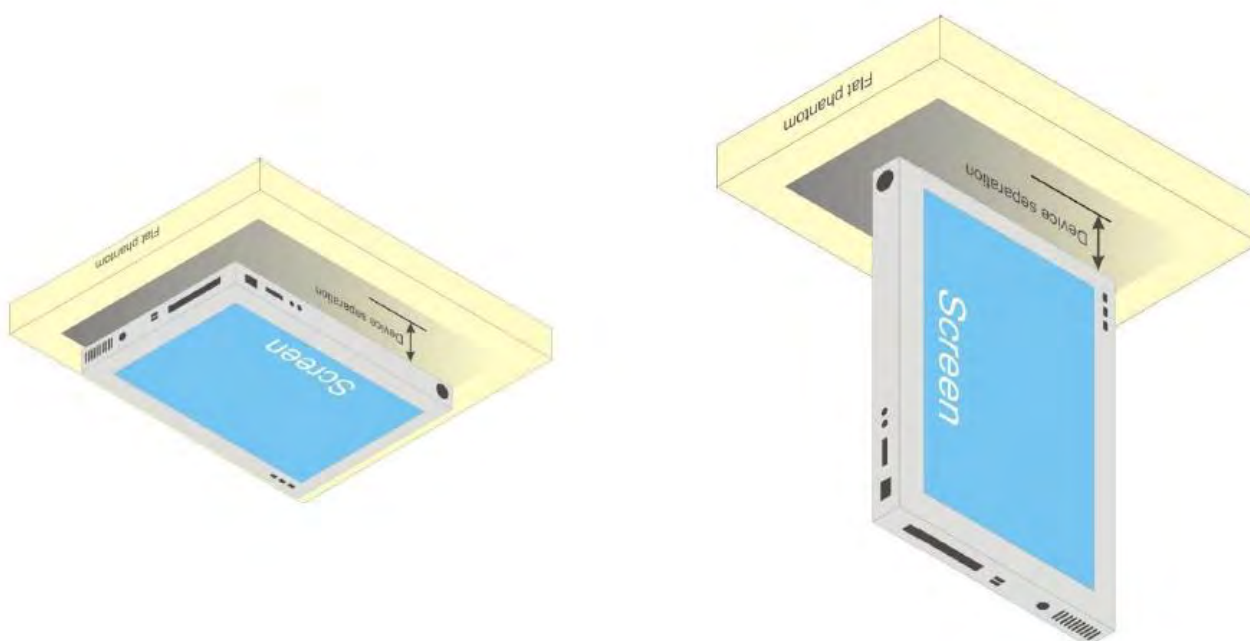
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**Tablet mode SAR test position (0mm)**

For full-size tablet, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.



**Illustration for Tablet Setup**

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#### 5.4 Power verification of device mode

The device is a convertible laptop computer with predefined single fixed power to each device modes. For the device modes verification, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

##### Results and conclusion

The measured output power versus lid angle is tabulated in the following table based on the guidance from 2019-11 TCB workshop, and the triggering verification complies with the device mode / power level declared by the manufacturer.

#### Device mode verification by power measurement

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Antenna	Operation mode	Lid angle	802.11b	802.11a(30M) 5.2G	802.11a(30M) 5.3G	802.11a(30M) 5.6G	802.11a(30M) 5.9G	802.11ax(150M) 5.9G	U-NII-5 802.11ax(160M)	U-NII-6 802.11ax(160M)	U-NII-7 802.11ax(160M)	U-NII-8 802.11ax(160M)	
Main	Lid close	0°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		10°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		20°	15.90	14.45	14.45	14.91	16.48	16.45	12.76	13.07	12.62	12.63	
		15°	15.90	14.45	14.45	14.89	16.41	16.37	12.79	13.08	12.63	12.69	
		10°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	Lid close	11°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		12°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		13°	15.93	14.48	14.46	14.98	16.43	16.42	12.79	13.07	12.68	12.65	
		14°	15.93	14.46	14.46	14.89	16.42	16.37	12.85	13.02	12.64	12.66	
		15°	15.90	14.45	14.43	14.92	16.40	16.35	12.76	13.08	12.66	12.60	
	Laptop	16°	15.91	14.44	14.46	14.89	16.44	16.40	12.81	13.09	12.65	12.69	
		17°	15.98	14.39	14.40	14.91	16.38	16.35	12.80	13.03	12.70	12.60	
		18°	15.92	14.44	14.45	14.93	16.39	16.36	12.77	13.10	12.65	12.64	
		19°	15.98	14.45	14.41	14.92	16.48	16.46	12.86	13.09	12.70	12.61	
		20°	15.93	14.41	14.47	14.89	16.44	16.40	12.84	13.03	12.65	12.59	
		30°	15.90	14.46	14.44	14.96	16.48	16.44	12.78	13.11	12.71	12.69	
		40°	15.96	14.41	14.43	14.91	16.44	16.41	12.80	13.06	12.64	12.60	
		50°	15.95	14.47	14.45	14.94	16.46	16.43	12.84	13.04	12.66	12.68	
		60°	15.97	14.47	14.44	14.88	16.39	16.35	12.78	13.07	12.70	12.59	
		70°	15.91	14.43	14.49	14.92	16.42	16.41	12.83	13.04	12.64	12.65	
		80°	15.97	14.49	14.42	14.97	16.41	16.40	12.86	13.03	12.65	12.68	
		90°	15.89	14.47	14.48	14.92	16.45	16.44	12.80	13.02	12.69	12.63	
		100°	15.90	14.48	14.44	14.88	16.43	16.42	12.79	13.02	12.70	12.66	
		110°	15.91	14.45	14.44	14.91	16.42	16.39	12.83	13.06	12.70	12.65	
		120°	15.99	14.47	14.48	14.88	16.41	16.38	12.82	13.11	12.68	12.68	
		130°	15.89	14.44	14.42	14.86	16.46	16.45	12.78	13.03	12.68	12.67	
		140°	15.98	14.39	14.46	14.91	16.38	16.35	12.81	13.08	12.68	12.60	
		150°	15.90	14.46	14.43	14.93	16.41	16.38	12.77	13.05	12.70	12.65	
		160°	15.94	14.49	14.42	14.92	16.39	16.35	12.84	13.11	12.68	12.62	
		170°	15.98	14.48	14.49	14.93	16.45	16.41	12.83	13.07	12.70	12.59	
		180°	15.97	14.47	14.47	14.96	16.43	16.41	12.83	13.11	12.62	12.68	
	190°	15.92	14.44	14.45	14.93	16.39	16.38	12.81	13.01	12.63	12.61		
	Table	200°	12.41	9.97	9.94	9.44	8.96	8.93	8.90	8.91	8.98	8.95	
		195°	15.97	14.43	14.41	14.91	16.40	16.40	12.81	13.09	12.66	12.67	
		197°	15.94	14.41	14.44	14.92	16.47	16.43	12.85	13.11	12.62	12.67	
		198°	15.99	14.47	14.39	14.92	16.48	16.44	12.80	13.03	12.64	12.65	
		199°	15.91	14.41	14.40	14.90	16.45	16.45	12.79	13.06	12.72	12.62	
	Laptop	200°	12.48	9.94	9.92	9.47	8.92	8.88	8.89	8.93	8.95	8.92	
		201°	12.38	9.95	9.95	9.40	8.92	8.89	8.92	8.91	8.94	8.95	
		202°	12.41	9.92	9.92	9.48	8.96	8.96	8.94	8.92	8.95	8.93	
		203°	12.46	9.91	9.96	9.42	8.97	8.95	8.98	8.98	8.98	8.85	
		204°	12.41	9.92	9.90	9.42	8.94	8.94	8.95	8.89	8.96	8.89	
		205°	12.40	9.97	9.97	9.48	8.98	8.94	8.93	8.97	8.97	8.94	
		206°	12.43	9.92	9.91	9.41	8.94	8.92	8.93	8.99	8.91	8.87	
		207°	12.41	9.97	9.95	9.41	8.94	8.94	8.90	8.98	8.98	8.94	
		208°	12.47	9.91	9.89	9.39	8.92	8.91	8.89	8.95	8.96	8.89	
		209°	12.43	9.94	9.96	9.49	8.93	8.90	8.91	8.98	8.97	8.86	
		210°	12.39	9.94	9.88	9.39	8.92	8.88	8.93	8.95	8.89	8.93	
		220°	12.44	9.91	9.94	9.42	8.97	8.94	8.92	8.97	8.92	8.88	
		230°	12.48	9.90	9.96	9.45	8.90	8.90	8.90	8.90	8.93	8.95	
		240°	12.41	9.89	9.93	9.47	8.96	8.92	8.88	8.91	8.88	8.95	
		250°	12.39	9.95	9.89	9.49	8.89	8.86	8.92	8.91	8.97	8.85	
		260°	12.41	9.92	9.98	9.45	8.97	8.98	8.88	8.90	8.90	8.91	
		270°	12.42	9.95	9.88	9.44	8.96	8.92	8.96	8.95	8.89	8.95	
		280°	12.41	9.96	9.90	9.43	8.90	8.90	8.96	8.93	8.95	8.94	
		290°	12.48	9.94	9.92	9.48	8.97	8.93	8.98	8.95	8.97	8.85	
		300°	12.46	9.91	9.98	9.42	8.97	8.95	8.91	8.96	8.92	8.90	
		310°	12.38	9.92	9.98	9.39	8.96	8.93	8.97	8.89	8.97	8.95	
	320°	12.39	9.92	9.93	9.46	8.95	8.91	8.92	8.97	8.96	8.89		
	330°	12.48	9.96	9.96	9.41	8.92	8.91	8.93	8.96	8.89	8.92		
	340°	12.46	9.97	9.97	9.49	8.97	8.94	8.94	8.94	8.94	8.94		
	350°	12.44	9.93	9.92	9.48	8.98	8.95	8.89	8.90	8.95	8.86		
	Table	360°	12.39	9.94	9.93	9.47	8.91	8.91	8.89	8.91	8.89	8.89	
		355°	12.41	9.89	9.93	9.44	8.94	8.91	8.91	8.95	8.97	8.91	
		340°	12.48	9.99	9.98	9.44	8.90	8.89	8.93	8.92	8.97	8.88	
		330°	12.45	9.96	9.97	9.43	8.93	8.92	8.94	8.93	8.92	8.91	
		320°	12.39	9.93	9.98	9.44	8.93	8.89	8.94	8.94	8.89	8.87	
		310°	12.47	9.98	9.92	9.45	8.91	8.87	8.95	8.95	8.95	8.86	
		300°	12.41	9.97	9.95	9.49	8.90	8.86	8.95	8.95	8.95	8.88	
		290°	12.43	9.96	9.89	9.46	8.96	8.92	8.97	8.89	8.97	8.95	
		280°	12.48	9.90	9.93	9.41	8.95	8.95	8.95	8.94	8.98	8.93	
		270°	12.46	9.96	9.96	9.46	8.89	8.94	8.95	8.90	8.94	8.94	
		260°	12.42	9.94	9.92	9.42	8.95	8.99	8.95	8.91	8.95	8.92	
		250°	12.39	9.93	9.89	9.41	8.95	8.92	8.88	8.95	8.92	8.85	
		240°	12.39	9.97	9.96	9.43	8.98	8.98	8.95	8.89	8.92	8.87	
		230°	12.45	9.97	9.96	9.42	8.95	8.94	8.95	8.93	8.95	8.86	
		220°	12.47	9.90	9.96	9.47	8.95	8.93	8.89	8.95	8.89	8.88	
		210°	12.41	9.89	9.88	9.44	8.91	8.88	8.95	8.89	8.98	8.88	
		200°	12.38	9.90	9.96	9.49	8.91	8.89	8.88	8.91	8.91	8.87	
		190°	12.40	9.94	9.94	9.41	8.94	8.91	8.91	8.90	8.92	8.94	
		180°	12.48	9.94	9.92	9.41	8.94	8.91	8.91	8.99	8.88	8.86	
		170°	12.45	9.91	9.94	9.41	8.96	8.93	8.98	8.89	8.88	8.88	
		160°	12.45	9.96	9.89	9.46	8.94	8.90	8.93	8.98	8.90	8.94	
	Laptop	150°	15.96	14.41	14.48	14.96	16.38	16.35	12.82	13.10	12.66	12.67	
		155°	15.91	14.48	14.42	14.89	16.40	16.36	12.83	13.03	12.72	12.64	
		160°	12.40	9.98	9.88	9.39	8.95	8.93	8.93	8.93	8.90	8.86	
		159°	15.89	14.42	14.49	14.90	16.38	16.37	12.82	13.10	12.67	12.63	
		158°	15.95	14.44	14.47	14.95	16.45	16.42	12.82	13.04	12.68	12.63	
	Main	Laptop	157°	15.91	14.47	14.41	14.91	16.48	16.44	12.80	13.07	12.65	12.64
			156°	15.96	14.46	14.40	14.91	16.38	16.33	12.81	13.05	12.70	12.63
			155°	15.95	14.47	14.45	14.97	16.39	16.39	12.83	13.05	12.71	12.67
			154°	15.98	14.49	14.49	14.90	16.47	16.43	12.82	13.09	12.64	12.64
			153°	15.90	14.47	14.49	14.96	16.48	16.44	12.82	13.05	12.67	12.68
		Laptop	152°	15.90	14.40	14.44	14.88	16.40	16.38	12.86	13.10	12.70	12.66
			151°	15.89	14.43	14.40	14.92	16.40	16.40	12.85	13.06	12.70	12.66
			150°	15.91	14.44	14.46	14.89	16.39	16.35	12.81	13.10	12.67	12.66
		Laptop	140°	15.91	14.46	14.40	14.94	16.38	16.37	12.84	13.07	12.69	12.65
			130°	15.91	14.43	14.43	14.91	16.38	16.38	12.76	13.04	12.64	12.65
			120°	15.93	14.49	14.44	14.88	16.46	16.40	12.80	13.11	12.65	12.60
			110°	15.99	14.49	14.40	14.93	16.47	16.45	12.76	13.10	12.62	12.62
100°			15.95	14.49	14.41	14.88	16.44	16.39	12.77	13.04	12.63	12.60	
90°			15.93	14.47	14.45	14.92	16.38	16.38	12.85	13.04	12.66	12.67	
80°			15.89	14.42	14.40	14.93	16.48	16.48	12.86	13.11	12.65	12.67	
70°			15.89	14.46	14.49	14.92	16.48	16.42	12.72	13.07	12.72	12.64	
60°			15.90	14.42	14.41	14.89	16.42	16.37	12.86	13.05	12.65	12.64	
50°			15.98	14.43	14.43	14.91	16.47	16.42	12.84	13.11	12.69	12.68	
40°			15.91	14.47	14.43	14.97	16.43	16.38	12.83	13.01	12.68	12.59	
Lid close		30°	15.96	14.48	14.43	14.88	16.39	16.32	12.79	13.02	12.68	12.65	



Antenna	Operation mode	Lid angle	802.11b	802.11a(80M) 5.2G	802.11a(80M) 5.3G	802.11a(80M) 5.6G	802.11a(160M) 5.8G	802.11a(80M) 5.9G	U-NII-S 802.11ax(160M)	U-NII-802.11ax(160M)	U-NII-7002.11ax(160M)	U-NII-802.11ax(160M)	
Laptop	Lid close	10°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	20°	15°	15.48	16.79	17.40	17.23	17.47	17.43	12.96	13.01	12.43	12.74	
		15°	15.42	16.77	17.45	17.15	17.45	17.40	12.94	13.05	12.44	12.67	
		10°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	Lid close	11°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	Laptop	12°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		13°	15.44	16.78	17.40	17.24	17.41	17.40	12.95	13.07	12.47	12.68	
		14°	15.47	16.85	17.43	17.21	17.40	17.40	12.95	13.02	12.43	12.69	
		15°	15.47	16.80	17.37	17.18	17.44	17.43	12.91	13.07	12.47	12.69	
		16°	15.48	16.83	17.39	17.17	17.45	17.40	12.97	13.08	12.43	12.73	
17°		15.48	16.80	17.43	17.16	17.40	17.37	12.90	13.10	12.42	12.72		
18°		15.39	16.80	17.45	17.16	17.44	17.39	12.86	13.05	12.45	12.64		
19°		15.40	16.77	17.45	17.22	17.40	17.36	12.88	13.06	12.42	12.69		
20°		15.47	16.83	17.38	17.17	17.47	17.47	12.91	13.08	12.48	12.71		
30°		15.44	16.80	17.45	17.18	17.44	17.41	12.96	13.03	12.41	12.74		
40°		15.42	16.84	17.45	17.23	17.44	17.43	12.92	13.04	12.46	12.73		
50°		15.42	16.81	17.41	17.20	17.46	17.45	12.88	13.11	12.48	12.64		
60°		15.48	16.85	17.45	17.23	17.41	17.40	12.97	13.11	12.49	12.67		
70°		15.39	16.84	17.46	17.22	17.44	17.43	12.96	13.06	12.42	12.73		
80°		15.48	16.85	17.41	17.20	17.47	17.45	12.97	13.07	12.42	12.71		
90°		15.42	16.83	17.40	17.22	17.40	17.39	12.95	13.10	12.44	12.67		
100°		15.46	16.81	17.43	17.22	17.38	17.37	12.90	13.01	12.42	12.70		
110°		15.48	16.87	17.37	17.18	17.44	17.43	12.95	13.01	12.42	12.71		
120°		15.45	16.83	17.42	17.22	17.43	17.42	12.94	13.05	12.40	12.73		
130°		15.44	16.82	17.42	17.23	17.38	17.36	12.90	13.06	12.48	12.64		
140°		15.47	16.77	17.41	17.18	17.38	17.34	12.97	13.09	12.40	12.73		
150°	15.44	16.85	17.45	17.21	17.44	17.43	12.89	13.08	12.42	12.69			
160°	15.42	16.84	17.42	17.19	17.44	17.40	12.95	13.04	12.39	12.64			
170°	15.43	16.85	17.46	17.16	17.44	17.41	12.96	13.03	12.45	12.70			
180°	15.42	16.80	17.37	17.18	17.47	17.47	12.96	13.02	12.44	12.68			
190°	15.38	16.82	17.38	17.14	17.41	17.37	12.91	13.01	12.42	12.68			
Table	Lid close	200°	12.41	10.39	10.42	9.47	8.48	8.45	8.97	8.90	8.94	8.97	
	195°	15.48	16.81	17.37	17.23	17.44	17.46	12.93	13.07	12.39	12.67		
		196°	15.41	16.80	17.41	17.16	17.46	17.46	12.95	13.09	12.39	12.74	
		197°	15.48	16.79	17.44	17.17	17.41	17.40	12.91	13.02	12.46	12.67	
	198°	15.48	16.87	17.37	17.22	17.47	17.45	12.93	13.08	12.45	12.73		
		199°	15.48	16.84	17.43	17.23	17.47	17.44	12.98	13.11	12.45	12.72	
		200°	12.38	10.38	10.41	9.42	8.41	8.39	8.91	8.91	8.91	8.89	
	201°	12.41	10.43	10.42	9.42	8.46	8.42	8.96	8.88	8.94	8.92		
		202°	12.43	10.46	10.44	9.45	8.42	8.41	8.99	8.92	8.98	8.96	
		203°	12.39	10.46	10.45	9.43	8.45	8.43	8.90	8.94	8.91	8.97	
Table	204°	12.38	10.39	10.48	9.47	8.46	8.45	8.95	8.97	8.91	8.87		
		205°	12.38	10.44	10.43	9.39	8.48	8.45	8.92	8.89	8.91	8.93	
		206°	12.43	10.43	10.45	9.39	8.47	8.42	8.95	8.95	8.98	8.87	
	207°	12.38	10.46	10.41	9.47	8.48	8.43	8.92	8.95	8.92	8.93		
		208°	12.38	10.48	10.39	9.42	8.41	8.39	8.97	8.95	8.90	8.90	
		209°	12.42	10.43	10.47	9.44	8.41	8.39	8.92	8.97	8.95	8.88	
	210°	12.39	10.38	10.48	9.44	8.42	8.41	8.94	8.91	8.90	8.97		
		220°	12.43	10.43	10.43	9.43	8.46	8.44	8.94	8.94	8.94	8.94	
		230°	12.44	10.43	10.43	9.45	8.38	8.36	8.93	8.96	8.91	8.94	
	240°	12.45	10.48	10.42	9.45	8.43	8.39	8.94	8.98	8.89	8.87		
		250°	12.48	10.45	10.40	9.42	8.46	8.43	8.97	8.98	8.98	8.87	
		260°	12.47	10.39	10.43	9.42	8.47	8.46	8.97	8.88	8.92	8.89	
	270°	12.41	10.39	10.45	9.41	8.41	8.38	8.38	8.98	8.98	8.98	8.87	
		280°	12.47	10.46	10.40	9.40	8.40	8.39	8.93	8.95	8.90	8.95	
		290°	12.38	10.41	10.44	9.41	8.46	8.44	8.95	8.88	8.99	8.88	
	300°	12.45	10.40	10.41	9.49	8.45	8.43	8.45	8.93	8.88	8.93	8.92	
		310°	12.39	10.43	10.40	9.44	8.38	8.34	8.94	8.91	8.87	8.87	
		320°	12.42	10.41	10.48	9.45	8.43	8.41	8.92	8.92	8.94	8.89	
	330°	12.41	10.43	10.40	9.43	8.45	8.42	8.45	8.94	8.94	8.96	8.96	
		340°	12.38	10.44	10.39	9.46	8.39	8.36	8.95	8.89	8.89	8.89	
		350°	12.41	10.46	10.47	9.39	8.45	8.41	8.97	8.92	8.93	8.89	
	360°	12.38	10.47	10.42	9.48	8.43	8.40	8.40	8.91	8.95	8.91	8.93	
		350°	12.42	10.45	10.48	9.45	8.38	8.34	8.89	8.89	8.94	8.92	
		340°	12.44	10.43	10.44	9.42	8.44	8.39	8.96	8.94	8.92	8.87	
	330°	12.38	10.39	10.48	9.47	8.40	8.39	8.39	8.98	8.98	8.98	8.95	
		320°	12.43	10.39	10.45	9.39	8.44	8.39	8.90	8.90	8.95	8.90	
		310°	12.48	10.42	10.47	9.45	8.45	8.45	8.93	8.97	8.97	8.94	
	300°	12.48	10.44	10.46	9.46	8.39	8.35	8.35	8.89	8.94	8.94	8.88	
		290°	12.41	10.41	10.49	9.40	8.47	8.45	8.91	8.95	8.93	8.88	
		280°	12.44	10.40	10.43	9.41	8.45	8.41	8.91	8.90	8.95	8.91	
	270°	12.47	10.41	10.45	9.46	8.40	8.39	8.39	8.95	8.97	8.98	8.91	
		260°	12.46	10.42	10.43	9.44	8.47	8.45	8.91	8.95	8.91	8.92	
		250°	12.39	10.43	10.41	9.48	8.45	8.43	8.98	8.88	8.94	8.92	
	240°	12.44	10.45	10.41	9.43	8.43	8.40	8.40	8.96	8.92	8.99	8.95	
		230°	12.42	10.46	10.41	9.41	8.44	8.41	8.95	8.94	8.93	8.94	
		220°	12.48	10.46	10.44	9.42	8.39	8.38	8.95	8.98	8.94	8.95	
	210°	12.39	10.46	10.41	9.49	8.47	8.45	8.45	8.99	8.90	8.97	8.87	
		200°	12.45	10.38	10.41	9.49	8.48	8.46	8.99	8.92	8.89	8.90	
		190°	12.38	10.40	10.39	9.47	8.48	8.45	8.93	8.95	8.95	8.89	
	180°	12.47	10.47	10.43	9.47	8.42	8.38	8.38	8.90	8.91	8.91	8.92	
		170°	12.42	10.40	10.45	9.44	8.46	8.44	8.93	8.91	8.97	8.91	
		160°	12.46	10.41	10.47	9.43	8.39	8.36	8.94	8.98	8.91	8.92	
Laptop	Lid close	150°	15.38	16.77	17.41	17.14	17.46	17.42	12.92	13.08	12.49	12.67	
	155°	15.47	16.87	17.43	17.19	17.38	17.33	12.92	13.10	12.44	12.65		
		160°	12.41	10.44	10.39	9.44	8.41	8.37	8.89	8.93	8.98	8.96	
	159°	15.44	16.77	17.44	17.20	17.40	17.39	12.90	13.09	12.42	12.69		
		158°	15.42	16.79	17.39	17.23	17.41	17.39	12.87	13.05	12.49	12.65	
		157°	15.38	16.79	17.40	17.14	17.45	17.44	12.89	13.11	12.47	12.65	
	156°	15.44	16.77	17.41	17.21	17.46	17.44	12.93	13.09	12.40	12.68		
		155°	15.38	16.83	17.45	17.21	17.39	17.35	12.94	13.03	12.49	12.71	
		154°	15.42	16.83	17.43	17.19	17.45	17.43	12.97	13.11	12.48	12.72	
	153°	15.45	16.80	17.38	17.14	17.39	17.39	12.92	13.10	12.43	12.74		
Laptop		152°	15.44	16.86	17.47	17.18	17.42	17.42	12.88	13.04	12.39	12.68	
		151°	15.40	16.84	17.46	17.14	17.40	17.37	12.87	13.04	12.39	12.71	
150°	15.43	16.78	17.38	17.18	17.45	17.41	12.92	13.05	12.39	12.64			
	140°	15.43	16.84	17.47	17.16	17.46	17.44	12.87	13.06	12.42	12.65		
	130°	15.43	16.82	17.39	17.16	17.43	17.41	12.90	13.10	12.45	12.70		
120°	15.47	16.87	17.40	17.15	17.47	17.42	12.97	13.07	12.45	12.71			
	110°	15.41	16.85	17.40	17.17	17.47	17.43	12.92	13.04	12.39	12.72		
	100°	15.44	16.79	17.42	17.16	17.43	17.39	12.90	13.10	12.39	12.70		
90°	15.42	16.82	17.46	17.20	17.42	17.41	12.91	13.11	12.43	12.66			
	80°	15.40	16.80	17.40	17.18	17.41	17.37	12.97	13.04	12.44	12.73		
	70°	15.44	16.82	17.43	17.23	17.43	17.42	12.97	13.07	12.42	12.68		
60°	15.38	16.79	17.41	17.23</									

§ 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 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)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <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
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <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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## 6 MAXIMUM OUTPUT POWER

## 6.1 WLAN

Report No.: TESA2204000049EN

Notebook mode

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	16.00	15.96
		6	2437		16.00	15.98
		11	2462		16.00	15.99
		12	2467		16.00	
		13	2472		16.00	
	802.11g	1	2412	6Mbps	16.00	
		6	2437		16.00	
		11	2462		16.00	
	802.11n20-HT0	1	2412	MCS0	16.00	
		6	2437		16.00	
		11	2462		16.00	
	802.11ax20-HE0	1	2412	MCS0	16.00	
		6	2437		16.00	
		11	2462		16.00	
	802.11n40-HT0	3	2422	MCS0	15.50	
		6	2437		16.00	
		9	2452		15.50	
	802.11ax40-HE0	3	2422	MCS0	15.50	
6		2437	16.00			
9		2452	16.00			
WLAN 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	14.50	
		40	5200		14.50	
		44	5220		14.50	
		48	5240		14.50	
	802.11n20-HT0	36	5180	MCS0	14.50	
		40	5200		14.50	
		44	5220		14.50	
		48	5240		14.50	
	802.11ax20-HE0	36	5180	MCS0	14.50	
		40	5200		14.50	
		44	5220		14.50	
		48	5240		14.50	
	802.11n40-HT0	38	5190	MCS0	14.50	
		46	5230		14.50	
	802.11ax40-HE0	38	5190	MCS0	14.50	
		46	5230		14.50	
	802.11ac80-VHT0	42	5210	MCS0	14.50	
	802.11ax80-HE0	42	5210	MCS0	14.50	
	802.11ac160-VHT0	50	5250	MCS0	14.50	14.49
802.11ax160-HE0	50	5250	MCS0	14.50	Not required	

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WLAN 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	14.50	Not required
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
	802.11n20-HT0	52	5260	MCS0	14.50	
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
	802.11ax20-HE0	52	5260	MCS0	14.50	
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
	802.11n40-HT0	54	5270	MCS0	14.50	
		62	5310		14.50	
	802.11ax40-HE0	54	5270	MCS0	14.50	
		62	5310		14.50	
	802.11ac80-VHT0	58	5290	MCS0	14.50	14.49
	802.11ax80-HE0	58	5290	MCS0	14.50	Not required
WLAN 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	15.00	Not required
		120	5600		15.00	
		140	5700		15.00	
		144	5720		15.00	
	802.11n20-HT0	100	5500	MCS0	15.00	
		120	5600		15.00	
		140	5700		15.00	
		144	5720		15.00	
	802.11ax20-HE0	100	5500	MCS0	15.00	
		120	5600		15.00	
		140	5700		15.00	
		144	5720		15.00	
	802.11n40-HT0	102	5510	MCS0	15.00	
		118	5590		15.00	
		134	5670		15.00	
		142	5710		15.00	
	802.11ax40-HE0	102	5510	MCS0	15.00	
		118	5590		15.00	
		134	5670		15.00	
		142	5710		15.00	
	802.11ac80-VHT0	106	5530	MCS0	15.00	14.95
		122	5610		15.00	14.93
		138	5690		15.00	14.98
	802.11ax80-HE0	106	5530	MCS0	15.00	Not required
		122	5610		15.00	
		138	5690		15.00	
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.98
	802.11ax160-HE0	114	5570	MCS0	15.00	Not required

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WLAN 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	16.50	Not required
		157	5785		16.50	
		165	5825		16.50	
	802.11n20-HT0	149	5745	MCS0	16.50	
		157	5785		16.50	
		165	5825		16.50	
	802.11ax20-HE0	149	5745	MCS0	16.50	
		157	5785		16.50	
		165	5825		16.50	
	802.11n40-HT0	151	5755	MCS0	16.50	
		159	5795		16.50	
	802.11ax40-HE0	151	5755	MCS0	16.50	
		159	5795		16.50	
	802.11ac80-VHT0	155	5775	MCS0	16.50	16.48
	802.11ax80-HE0	155	5775	MCS0	16.50	Not required

## Report No.: TESA2302000095EN

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	16.50	16.33
		173	5865		16.50	16.42
		177	5885		16.50	16.26
	802.11n20-HT0	169	5845	MCS0	16.50	16.46
		173	5865		16.50	16.42
		177	5885		16.50	16.34
	802.11ax20-HE0	169	5845	MCS0	16.50	16.39
		173	5865		16.50	16.44
		177	5885		16.50	16.41
	802.11n40-HT0	167	5835	MCS0	16.50	16.39
		175	5875		16.50	16.40
	802.11ax40-HE0	167	5835	MCS0	16.50	16.41
		175	5875		16.50	16.38
	802.11ac80-VHT0	171	5855	MCS0	16.50	16.46
	802.11ax80-HE0	171	5855	MCS0	16.50	16.42
	802.11ac160-VHT0	163	5815	MCS0	15.00	14.88
	802.11ax160-HE0	163	5815	MCS0	16.50	16.49

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WLAN 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	15.50	15.48
		6	2437		15.50	15.44
		11	2462		15.50	15.46
		12	2467		15.50	Not required
		13	2472		15.50	
	802.11g	1	2412	15.50		
		6	2437	15.50		
		11	2462	15.50		
	802.11n20-HT0	1	2412	MCS0	15.50	
		6	2437		15.50	
		11	2462		15.50	
	802.11ax20-HE0	1	2412	MCS0	15.50	
		6	2437		15.50	
		11	2462		15.50	
	802.11n40-HT0	3	2422	MCS0	15.50	
		6	2437		15.50	
		9	2452		15.50	
	802.11ax40-HE0	3	2422	MCS0	15.50	
		6	2437		15.50	
		9	2452		15.50	
WLAN 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	17.50	Not required
		40	5200		17.50	
		44	5220		17.50	
		48	5240		17.50	
	802.11n20-HT0	36	5180	MCS0	17.50	
		40	5200		17.50	
		44	5220		17.50	
		48	5240		17.50	
	802.11ax20-HE0	36	5180	MCS0	17.50	
		40	5200		17.50	
		44	5220		17.50	
		48	5240		17.50	
	802.11n40-HT0	38	5190	MCS0	17.50	
		46	5230		17.50	
	802.11ax40-HE0	38	5190	MCS0	17.50	
		46	5230		17.50	
	802.11ac80-VHT0	42	5210	MCS0	17.50	16.87
	802.11ax80-HE0	42	5210	MCS0	17.50	Not required
802.11ac160-VHT0	50	5250	MCS0	15.50		
802.11ax160-HE0	50	5250	MCS0	15.50		

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WLAN 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	17.50	Not required
		56	5280		17.50	
		60	5300		17.50	
		64	5320		17.50	
	802.11n20-HT0	52	5260	MCS0	17.50	
		56	5280		17.50	
		60	5300		17.50	
		64	5320		17.50	
	802.11ax20-HE0	52	5260	MCS0	17.50	
		56	5280		17.50	
		60	5300		17.50	
		64	5320		17.50	
	802.11n40-HT0	54	5270	MCS0	17.50	
		62	5310		17.50	
	802.11ax40-HE0	54	5270	MCS0	17.50	
		62	5310		17.50	
	802.11ac80-VHT0	58	5290	MCS0	17.50	17.47
	802.11ax80-HE0	58	5290	MCS0	17.50	Not required
WLAN 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	17.25	Not required
		120	5600		17.25	
		140	5700		17.25	
		144	5720		17.25	
	802.11n20-HT0	100	5500	MCS0	17.25	
		120	5600		17.25	
		140	5700		17.25	
		144	5720		17.25	
	802.11ax20-HE0	100	5500	MCS0	17.25	
		120	5600		17.25	
		140	5700		17.25	
		144	5720		17.25	
	802.11n40-HT0	102	5510	MCS0	17.25	
		118	5590		17.25	
		134	5670		17.25	
		142	5710		17.25	
	802.11ax40-HE0	102	5510	MCS0	17.25	
		118	5590		17.25	
		134	5670		17.25	
		142	5710		17.25	
	802.11ac80-VHT0	106	5530	MCS0	17.25	17.23
		122	5610		17.25	17.17
		138	5690		17.25	17.24
	802.11ax80-HE0	106	5530	MCS0	17.25	Not required
		122	5610		17.25	
		138	5690		17.25	
	802.11ac160-VHT0	114	5570	MCS0	15.75	
	802.11ax160-HE0	114	5570	MCS0	15.75	

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WLAN 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	17.50	Not required
		157	5785		17.50	
		165	5825		17.50	
	802.11n20-HT0	149	5745	MCS0	17.50	
		157	5785		17.50	
		165	5825		17.50	
	802.11ax20-HE0	149	5745	MCS0	17.50	
		157	5785		17.50	
		165	5825		17.50	
	802.11n40-HT0	151	5755	MCS0	17.50	
		159	5795		17.50	
	802.11ax40-HE0	151	5755	MCS0	17.50	
		159	5795		17.50	
	802.11ac80-VHT0	155	5775	MCS0	17.50	17.48
	802.11ax80-HE0	155	5775	MCS0	17.50	Not required

## Report No.: TESA2302000095EN

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	17.50	17.41
		173	5865		17.50	17.42
		177	5885		17.50	17.39
	802.11n20-HT0	169	5845	MCS0	17.50	17.40
		173	5865		17.50	17.28
		177	5885		17.50	17.44
	802.11ax20-HE0	169	5845	MCS0	17.50	17.36
		173	5865		17.50	17.42
		177	5885		17.50	17.38
	802.11n40-HT0	167	5835	MCS0	17.50	17.35
		175	5875		17.50	17.45
	802.11ax40-HE0	167	5835	MCS0	17.50	17.41
		175	5875		17.50	17.40
	802.11ac80-VHT0	171	5855	MCS0	17.50	17.48
	802.11ax80-HE0	171	5855	MCS0	17.50	17.41
	802.11ac160-VHT0	163	5815	MCS0	16.50	16.42
	802.11ax160-HE0	163	5815	MCS0	16.50	16.45

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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	12.50	12.45	
		6	2437		12.50	12.48	
		11	2462		12.50	12.46	
		12	2467		12.50		
		13	2472		12.50		
	802.11g	1	2412	6Mbps	12.50	Not required	
		6	2437		12.50		
		11	2462		12.50		
	802.11n20-HT0	1	2412	MCS0	12.50		
		6	2437		12.50		
		11	2462		12.50		
	802.11ax20-HE0	1	2412	MCS0	12.50		
		6	2437		12.50		
		11	2462		12.50		
	802.11n40-HT0	3	2422	MCS0	12.50		
		6	2437		12.50		
		9	2452		12.50		
	802.11ax40-HE0	3	2422	MCS0	12.50		
6		2437	12.50				
9		2452	12.50				
WLAN 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	10.00		Not required
		40	5200		10.00		
		44	5220		10.00		
		48	5240		10.00		
	802.11n20-HT0	36	5180	MCS0	10.00		
		40	5200		10.00		
		44	5220		10.00		
		48	5240		10.00		
	802.11ax20-HE0	36	5180	MCS0	10.00		
		40	5200		10.00		
		44	5220		10.00		
		48	5240		10.00		
	802.11n40-HT0	38	5190	MCS0	10.00		
		46	5230		10.00		
	802.11ax40-HE0	38	5190	MCS0	10.00		
		46	5230		10.00		
	802.11ac80-VHT0	42	5210	MCS0	10.00		
	802.11ax80-HE0	42	5210	MCS0	10.00		
802.11ac160-VHT0	50	5250	MCS0	10.00	9.99		
802.11ax160-HE0	50	5250	MCS0	10.00	Not required		

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WLAN 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	10.00	Not required
		56	5280		10.00	
		60	5300		10.00	
		64	5320		10.00	
	802.11n20-HT0	52	5260	MCS0	10.00	
		56	5280		10.00	
		60	5300		10.00	
		64	5320		10.00	
	802.11ax20-HE0	52	5260	MCS0	10.00	
		56	5280		10.00	
		60	5300		10.00	
		64	5320		10.00	
	802.11n40-HT0	54	5270	MCS0	10.00	
		62	5310		10.00	
	802.11ax40-HE0	54	5270	MCS0	10.00	
		62	5310		10.00	
	802.11ac80-VHT0	58	5290	MCS0	10.00	9.98
	802.11ax80-HE0	58	5290	MCS0	10.00	Not required
WLAN 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	9.50	Not required
		120	5600		9.50	
		140	5700		9.50	
		144	5720		9.50	
	802.11n20-HT0	100	5500	MCS0	9.50	
		120	5600		9.50	
		140	5700		9.50	
		144	5720		9.50	
	802.11ax20-HE0	100	5500	MCS0	9.50	
		120	5600		9.50	
		140	5700		9.50	
		144	5720		9.50	
	802.11n40-HT0	102	5510	MCS0	9.50	
		118	5590		9.50	
		134	5670		9.50	
		142	5710		9.50	
	802.11ax40-HE0	102	5510	MCS0	9.50	
		118	5590		9.50	
		134	5670		9.50	
		142	5710		9.50	
	802.11ac80-VHT0	106	5530	MCS0	9.50	9.47
		122	5610		9.50	9.44
		138	5690		9.50	9.49
	802.11ax80-HE0	106	5530	MCS0	9.50	Not required
		122	5610		9.50	
		138	5690		9.50	
	802.11ac160-VHT0	114	5570	MCS0	9.50	9.49
	802.11ax160-HE0	114	5570	MCS0	9.50	Not required

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WLAN 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	9.00	Not required
		157	5785		9.00	
		165	5825		9.00	
	802.11n20-HT0	149	5745	MCS0	9.00	
		157	5785		9.00	
		165	5825		9.00	
	802.11ax20-HE0	149	5745	MCS0	9.00	
		157	5785		9.00	
		165	5825		9.00	
	802.11n40-HT0	151	5755	MCS0	9.00	
		159	5795		9.00	
	802.11ax40-HE0	151	5755	MCS0	9.00	
		159	5795		9.00	
	802.11ac80-VHT0	155	5775	MCS0	9.00	8.99
	802.11ax80-HE0	155	5775	MCS0	9.00	Not required

## Report No.: TESA2302000095EN

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	9.00	8.90
		173	5865		9.00	8.92
		177	5885		9.00	8.94
	802.11n20-HT0	169	5845	MCS0	9.00	8.87
		173	5865		9.00	8.95
		177	5885		9.00	8.92
	802.11ax20-HE0	169	5845	MCS0	9.00	8.94
		173	5865		9.00	8.92
		177	5885		9.00	8.90
	802.11n40-HT0	167	5835	MCS0	9.00	8.92
		175	5875		9.00	8.91
	802.11ax40-HE0	167	5835	MCS0	9.00	8.93
		175	5875		9.00	8.95
	802.11ac80-VHT0	171	5855	MCS0	9.00	8.88
	802.11ax80-HE0	171	5855	MCS0	9.00	8.95
	802.11ac160-VHT0	163	5815	MCS0	9.50	9.48
	802.11ax160-HE0	163	5815	MCS0	9.00	8.92

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WLAN 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	12.50	12.46
		6	2437		12.50	12.48
		11	2462		12.50	12.46
		12	2467		12.50	Not required
		13	2472		12.50	
	802.11g	1	2412	6Mbps	12.50	
		6	2437		12.50	
		11	2462		12.50	
	802.11n20-HT0	1	2412	MCS0	12.50	
		6	2437		12.50	
		11	2462		12.50	
	802.11ax20-HE0	1	2412	MCS0	12.50	
		6	2437		12.50	
		11	2462		12.50	
	802.11n40-HT0	3	2422	MCS0	12.50	
		6	2437		12.50	
		9	2452		12.50	
	802.11ax40-HE0	3	2422	MCS0	12.50	
6		2437	12.50			
9		2452	12.50			
WLAN 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	10.50	Not required
		40	5200		10.50	
		44	5220		10.50	
		48	5240		10.50	
	802.11n20-HT0	36	5180	MCS0	10.50	
		40	5200		10.50	
		44	5220		10.50	
		48	5240		10.50	
	802.11ax20-HE0	36	5180	MCS0	10.50	
		40	5200		10.50	
		44	5220		10.50	
		48	5240		10.50	
	802.11n40-HT0	38	5190	MCS0	10.50	
		46	5230		10.50	
	802.11ax40-HE0	38	5190	MCS0	10.50	
		46	5230		10.50	
	802.11ac80-VHT0	42	5210	MCS0	10.50	
	802.11ax80-HE0	42	5210	MCS0	10.50	
802.11ac160-VHT0	50	5250	MCS0	10.50	10.48	
802.11ax160-HE0	50	5250	MCS0	10.50	Not required	

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WLAN 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	10.50	Not required
		56	5280		10.50	
		60	5300		10.50	
		64	5320		10.50	
	802.11n20-HT0	52	5260	MCS0	10.50	
		56	5280		10.50	
		60	5300		10.50	
		64	5320		10.50	
	802.11ax20-HE0	52	5260	MCS0	10.50	
		56	5280		10.50	
		60	5300		10.50	
		64	5320		10.50	
	802.11n40-HT0	54	5270	MCS0	10.50	
		62	5310		10.50	
	802.11ax40-HE0	54	5270	MCS0	10.50	
		62	5310		10.50	
	802.11ac80-VHT0	58	5290	MCS0	10.50	10.49
	802.11ax80-HE0	58	5290	MCS0	10.50	Not required
WLAN 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	9.50	Not required
		120	5600		9.50	
		140	5700		9.50	
		144	5720		9.50	
	802.11n20-HT0	100	5500	MCS0	9.50	
		120	5600		9.50	
		140	5700		9.50	
		144	5720		9.50	
	802.11ax20-HE0	100	5500	MCS0	9.50	
		120	5600		9.50	
		140	5700		9.50	
		144	5720		9.50	
	802.11n40-HT0	102	5510	MCS0	9.50	
		118	5590		9.50	
		134	5670		9.50	
		142	5710		9.50	
	802.11ax40-HE0	102	5510	MCS0	9.50	
		118	5590		9.50	
		134	5670		9.50	
		142	5710		9.50	
	802.11ac80-VHT0	106	5530	MCS0	9.50	9.47
		122	5610		9.50	9.44
		138	5690		9.50	9.49
	802.11ax80-HE0	106	5530	MCS0	9.50	Not required
		122	5610		9.50	
		138	5690		9.50	
	802.11ac160-VHT0	114	5570	MCS0	9.50	9.49
	802.11ax160-HE0	114	5570	MCS0	9.50	Not required

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WLAN 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	8.50	Not required
		157	5785		8.50	
		165	5825		8.50	
	802.11n20-HT0	149	5745	MCS0	8.50	
		157	5785		8.50	
		165	5825		8.50	
	802.11ax20-HE0	149	5745	MCS0	8.50	
		157	5785		8.50	
		165	5825		8.50	
	802.11n40-HT0	151	5755	MCS0	8.50	
		159	5795		8.50	
	802.11ax40-HE0	151	5755	MCS0	8.50	
		159	5795		8.50	
	802.11ac80-VHT0	155	5775	MCS0	8.50	8.48
	802.11ax80-HE0	155	5775	MCS0	8.50	Not required

## Report No.: TESA2302000095EN

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	8.50	8.47
		173	5865		8.50	8.32
		177	5885		8.50	8.39
	802.11n20-HT0	169	5845	MCS0	8.50	8.43
		173	5865		8.50	8.46
		177	5885		8.50	8.38
	802.11ax20-HE0	169	5845	MCS0	8.50	8.46
		173	5865		8.50	8.41
		177	5885		8.50	8.42
	802.11n40-HT0	167	5835	MCS0	8.50	8.38
		175	5875		8.50	8.40
	802.11ax40-HE0	167	5835	MCS0	8.50	8.42
		175	5875		8.50	8.43
	802.11ac80-VHT0	171	5855	MCS0	8.50	8.42
	802.11ax80-HE0	171	5855	MCS0	8.50	8.47
	802.11ac160-VHT0	163	5815	MCS0	9.50	9.49
	802.11ax160-HE0	163	5815	MCS0	8.50	8.38

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## 6.2 WIFI 6E

Report No.: TESA2204000049EN

### Notebook mode

WLAN 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	5.00	Not required
		45	6175		5.00	
		93	6415		5.00	
	802.11ax40-HE0	3	5965	MCS0	8.25	
		43	6165		8.25	
		91	6405		8.25	
	802.11ax80-HE0	7	5985	MCS0	10.75	
		39	6145		10.75	
		87	6385		10.75	
	802.11ax160-HE0	15	6025	MCS0	13.50	12.86
		47	6185		13.50	12.83
		79	6345		13.50	12.48
WLAN 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	5.00	Not required
		105	6475		5.00	
		113	6515		5.00	
	802.11ax40-HE0	99	6445	MCS0	8.25	
		107	6485		8.25	
	802.11ax80-HE0	103	6465	MCS0	10.75	
		119	6545		10.75	
	802.11ax160-HE0	111	6505	MCS0	13.50	13.11
WLAN 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	4.25	Not required
		149	6695		4.25	
		181	6855		4.25	
	802.11ax40-HE0	115	6525	MCS0	8.25	
		147	6685		7.50	
		179	6845		7.50	
	802.11ax80-HE0	135	6625	MCS0	10.00	
		151	6705		10.00	
		167	6785		10.00	
	802.11ax160-HE0	143	6665	MCS0	12.75	12.72
		175	6825		12.75	12.65

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WLAN 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	4.25	Not required
		209	6995		4.25	
		233	7115		-1.00	
	802.11ax40-HE0	187	6885	MCS0	7.50	
		227	7085		7.50	
	802.11ax80-HE0	183	6865	MCS0	10.00	
		199	6945		10.00	
		215	7025		10.00	
	802.11ax160-HE0	207	6985	MCS0	12.75	
WLAN 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	5.00	Not required
		45	6175		5.00	
		93	6415		5.00	
	802.11ax40-HE0	3	5965	MCS0	8.25	
		43	6165		8.25	
		91	6405		8.25	
	802.11ax80-HE0	7	5985	MCS0	10.75	
		39	6145		10.75	
		87	6385		10.75	
	802.11ax160-HE0	15	6025	MCS0	13.50	12.97
		47	6185		13.50	12.95
		79	6345		13.50	12.74
WLAN 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	5.00	Not required
		105	6475		5.00	
		113	6515		5.00	
	802.11ax40-HE0	99	6445	MCS0	8.25	
		107	6485		8.25	
	802.11ax80-HE0	103	6465	MCS0	10.75	
		119	6545		10.75	
	802.11ax160-HE0	111	6505	MCS0	13.50	13.11

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WLAN 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	4.25	Not required
		149	6695		4.25	
		181	6855		4.25	
	802.11ax40-HE0	115	6525	MCS0	8.25	
		147	6685		7.50	
		179	6845		7.50	
	802.11ax80-HE0	135	6625	MCS0	10.00	
		151	6705		10.00	
		167	6785		10.00	
	802.11ax160-HE0	143	6665	MCS0	12.75	12.49
		175	6825		12.75	12.47
WLAN 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	4.25	Not required
		209	6995		4.25	
		233	7115		-1.00	
	802.11ax40-HE0	187	6885	MCS0	7.50	
		227	7085		7.50	
	802.11ax80-HE0	183	6865	MCS0	10.00	
		199	6945		10.00	
		215	7025		10.00	
	802.11ax160-HE0	207	6985	MCS0	12.75	

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WLAN 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	5.00	Not required		
		45	6175		5.00			
		93	6415		5.00			
	802.11ax40-HE0	3	5965	MCS0	8.25		Not required	
		43	6165		8.25			
		91	6405		8.25			
	802.11ax80-HE0	7	5985	MCS0	9.00			Not required
		39	6145		9.00			
		87	6385		9.00			
	802.11ax160-HE0	15	6025	MCS0	9.00	8.92		
		47	6185		9.00	8.97		
		79	6345		9.00	8.98		
WLAN 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	5.00	Not required		
		105	6475		5.00			
		113	6515		5.00			
	802.11ax40-HE0	99	6445	MCS0	8.25		Not required	
		107	6485		8.25			
	802.11ax80-HE0	103	6465	MCS0	9.00			Not required
		119	6545		9.00			
	802.11ax160-HE0	111	6505	MCS0	9.00	8.99		
WLAN 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	4.25	Not required		
		149	6695		4.25			
		181	6855		4.25			
	802.11ax40-HE0	115	6525	MCS0	8.25		Not required	
		147	6685		7.50			
		179	6845		7.50			
	802.11ax80-HE0	135	6625	MCS0	9.00			Not required
		151	6705		9.00			
		167	6785		9.00			
	802.11ax160-HE0	143	6665	MCS0	9.00	8.98		
		175	6825		9.00	8.97		

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WLAN 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	4.25	Not required
		209	6995		4.25	
		233	7115		-1.00	
	802.11ax40-HE0	187	6885	MCS0	7.50	
		227	7085		7.50	
	802.11ax80-HE0	183	6865	MCS0	9.00	8.95
		199	6945		8.50	8.46
		215	7025		8.50	8.44
	802.11ax160-HE0	207	6985	MCS0	8.50	Not required
	WLAN 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	5.00	Not required
		45	6175		5.00	
		93	6415		5.00	
	802.11ax40-HE0	3	5965	MCS0	8.25	
		43	6165		8.25	
		91	6405		8.25	
	802.11ax80-HE0	7	5985	MCS0	9.00	
		39	6145		9.00	
		87	6385		9.00	
	802.11ax160-HE0	15	6025	MCS0	9.00	8.97
		47	6185		9.00	8.99
		79	6345		9.00	8.98
WLAN 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	5.00	Not required
		105	6475		5.00	
		113	6515		5.00	
	802.11ax40-HE0	99	6445	MCS0	8.25	
		107	6485		8.25	
	802.11ax80-HE0	103	6465	MCS0	9.00	
		119	6545		9.00	
	802.11ax160-HE0	111	6505	MCS0	9.00	8.98

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WLAN 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	4.25	Not required
		149	6695		4.25	
		181	6855		4.25	
	802.11ax40-HE0	115	6525	MCS0	8.25	
		147	6685		7.50	
		179	6845		7.50	
	802.11ax80-HE0	135	6625	MCS0	9.00	
		151	6705		9.00	
		167	6785		9.00	
	802.11ax160-HE0	143	6665	MCS0	9.00	8.99
		175	6825		9.00	8.97
WLAN 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	4.25	Not required
		209	6995		4.25	
		233	7115		-1.00	
	802.11ax40-HE0	187	6885	MCS0	7.50	
		227	7085		7.50	
	802.11ax80-HE0	183	6865	MCS0	9.00	8.97
		199	6945		8.50	8.44
		215	7025		8.50	8.46
	802.11ax160-HE0	207	6985	MCS0	8.50	Not required

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### 6.3 Bluetooth

#### Report No.: TESA2204000049EN

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	11.00	9.02	7.00	6.94	7.00	6.92
	CH 39	2441		9.11		6.92		6.91
	CH 78	2480		9.21		6.98		6.96

### 6.4 BLE

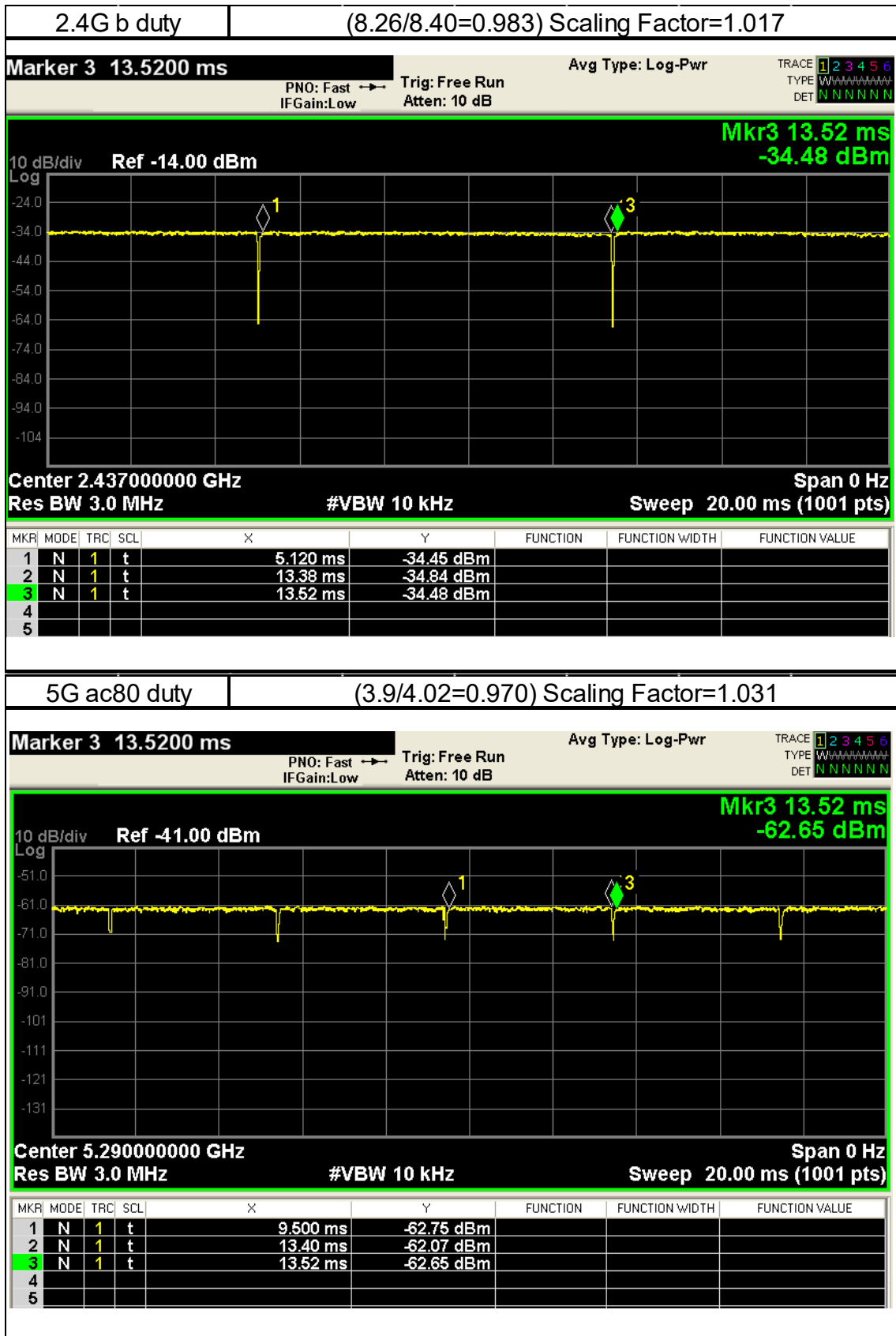
#### Report No.: TESA2204000049EN

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	7	6.79
	CH 19	2440		6.88
	CH 39	2480		6.98
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	7	6.45
	CH 19	2440		6.75
	CH 39	2480		6.85

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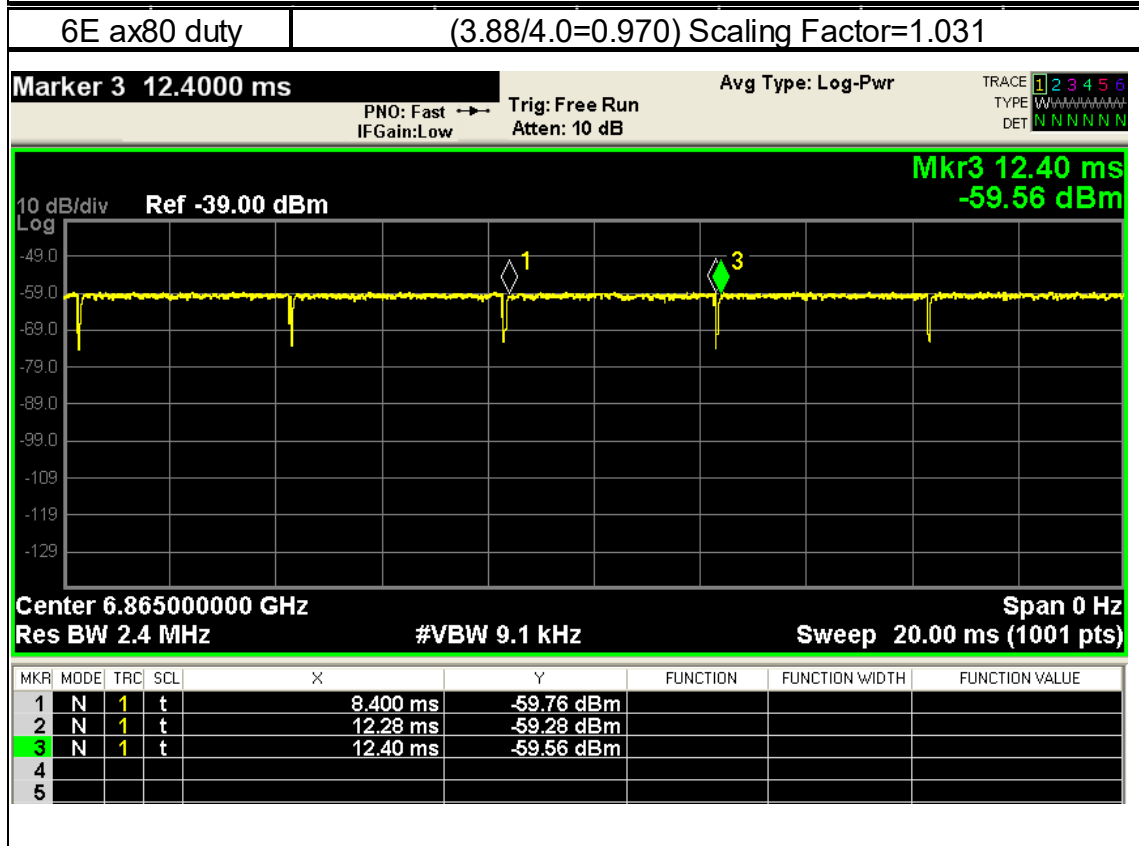
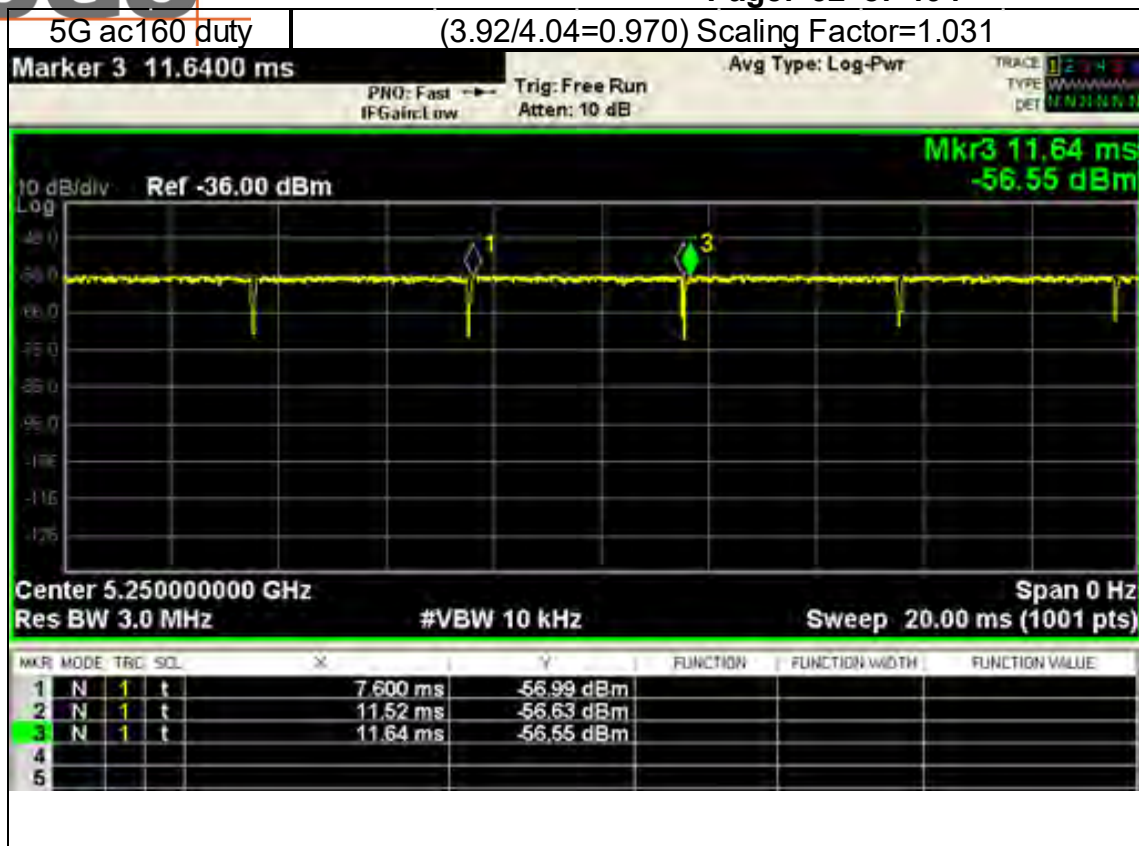
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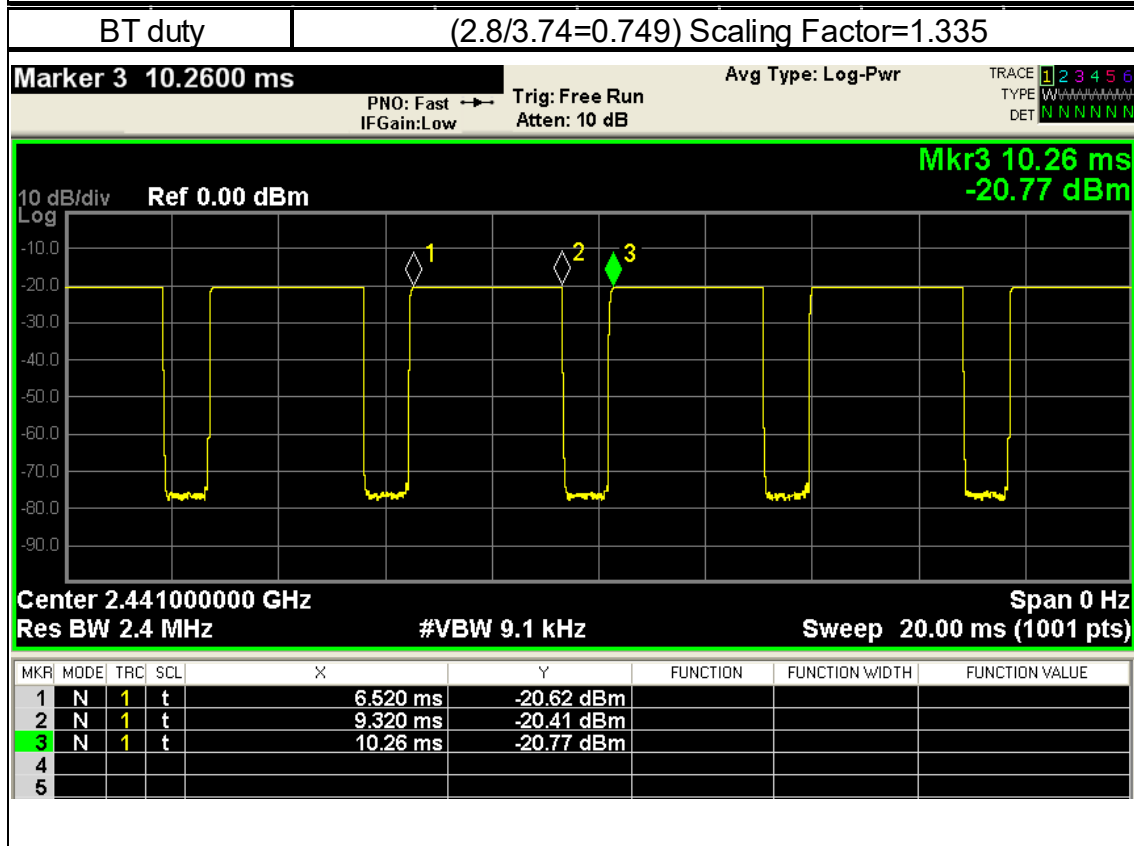
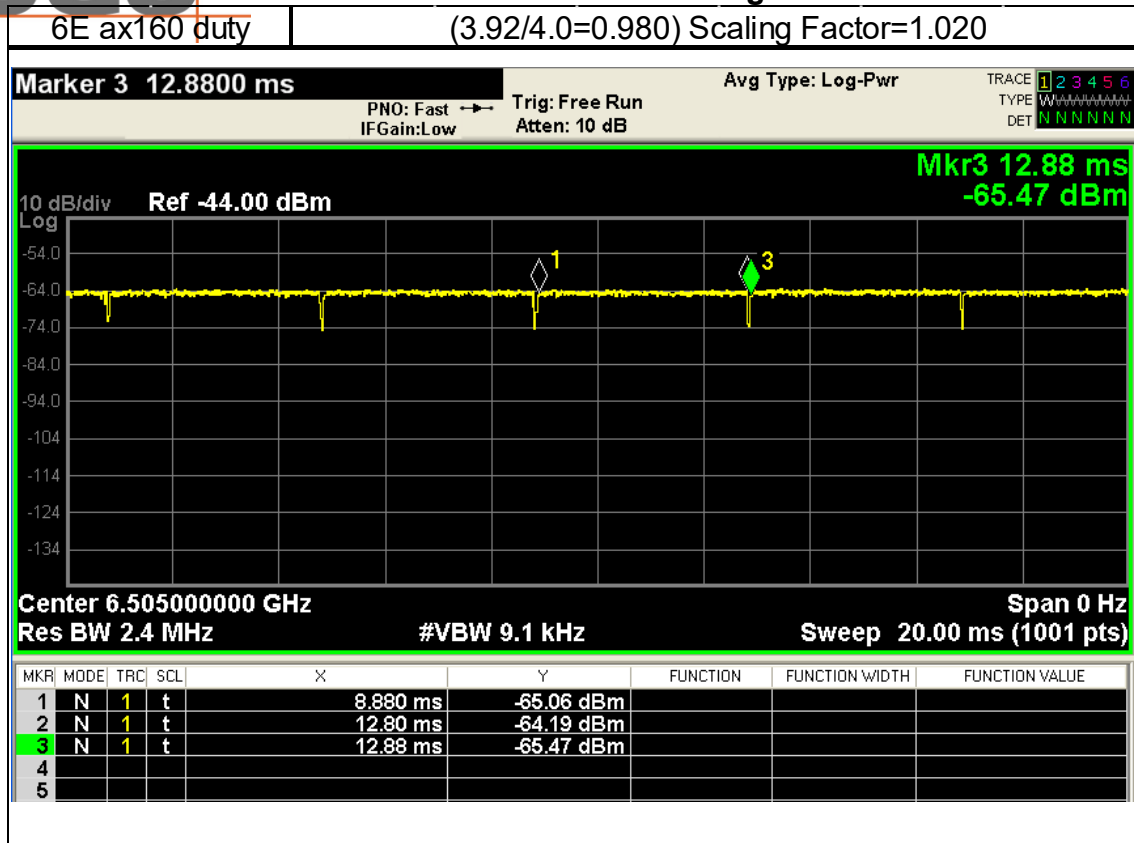
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## 8 SUMMARY OF RESULTS

### 8.1 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.

### 8.2 Summary of SAR Results

High-Tek

Notebook mode

Report No.: TESA2204000049EN

Mode	Antenna	Position	Distance (mm)	CH	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	WLAN Main	Bottom Surface	0	1	2412	16.00	15.96	1.02	100.93%	0.414	0.425	001
WLAN 802.11b	WLAN Main	Bottom Surface	0	6	2437	16.00	15.98	1.02	100.46%	0.362	0.370	-
WLAN 802.11b	WLAN Main	Bottom Surface	0	11	2462	16.00	15.99	1.02	100.23%	0.399	0.407	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.2G	WLAN Main	Bottom Surface	0	50	5250	14.50	14.49	1.03	100.23%	0.533	0.551	002
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.3G	WLAN Main	Bottom Surface	0	58	5290	14.50	14.49	1.03	100.23%	0.541	0.559	003
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.6G	WLAN Main	Bottom Surface	0	114	5570	15.00	14.98	1.03	100.46%	0.741	0.767	004
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.8G	WLAN Main	Bottom Surface	0	155	5775	16.50	16.48	1.03	100.46%	0.933	0.966	005
Repeated	WLAN Main	Bottom Surface	0	155	5775	16.50	16.48	1.03	100.46%	0.924	0.957	-
Mode	Antenna	Position	Distance (mm)	CH	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	WLAN Aux	Bottom Surface	0	1	2412	15.50	15.48	1.02	100.46%	0.161	0.164	-
WLAN 802.11b	WLAN Aux	Bottom Surface	0	6	2437	15.50	15.44	1.02	101.39%	0.175	0.180	-
WLAN 802.11b	WLAN Aux	Bottom Surface	0	11	2462	15.50	15.46	1.02	100.93%	0.189	0.194	006
Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	WLAN Aux	Bottom Surface	0	78	2480	11.00	9.21	1.34	151.01%	0.043	0.086	007
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.2G	WLAN Aux	Bottom Surface	0	42	5210	17.50	16.87	1.03	115.74%	0.335	0.400	008
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.3G	WLAN Aux	Bottom Surface	0	58	5290	17.50	17.47	1.03	100.89%	0.345	0.358	009
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.6G	WLAN Aux	Bottom Surface	0	138	5690	17.25	17.24	1.03	100.23%	0.374	0.386	010
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.8G	WLAN Aux	Bottom Surface	0	155	5775	17.50	17.48	1.03	100.46%	0.405	0.419	011

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Mode	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 802.11ax(160M) 5.9G	Main	Bottom Surface	0	163	5815	16.50	16.49	1.02	100.23%	0.871	0.890	012
WLAN 802.11ax(160M) 5.9G*	Main	Bottom Surface	0	163	5815	16.50	16.49	1.02	100.23%	0.862	0.881	-
Mode	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 802.11ac(80M) 5.9G	Aux	Bottom Surface	0	171	5855	17.50	17.48	1.03	100.46%	0.602	0.624	013

\* - repeated at the highest SAR measurement according to the KDB 865664 D01

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## Report No.: TESA2204000049EN

Mode	Antenna	Position	Distance (mm)	CH	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	WLAN Main	Back Surface	0	6	2437	12.50	12.48	1.02	100.46%	0.852	0.870	014
WLAN 802.11b	WLAN Main	Back Surface	0	11	2462	12.50	12.46	1.02	100.93%	0.774	0.794	-
WLAN 802.11b	WLAN Main	Top Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.153	0.156	-
WLAN 802.11b	WLAN Main	Left Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.023	0.024	-
Repeated	WLAN Main	Back Surface	0	6	2437	12.50	12.48	1.02	100.46%	0.845	0.863	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.2G	WLAN Main	Back Surface	0	50	5250	10.00	9.99	1.03	100.23%	0.404	0.417	015
WLAN 802.11ac(160M) 5.2G	WLAN Main	Top Edge	0	50	5250	10.00	9.99	1.03	100.23%	0.328	0.339	-
WLAN 802.11ac(160M) 5.2G	WLAN Main	Left Edge	0	50	5250	10.00	9.99	1.03	100.23%	0.011	0.011	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.3G	WLAN Main	Back Surface	0	58	5290	10.00	9.98	1.03	100.46%	0.379	0.393	016
WLAN 802.11ac(80M) 5.3G	WLAN Main	Top Edge	0	58	5290	10.00	9.98	1.03	100.46%	0.339	0.351	-
WLAN 802.11ac(80M) 5.3G	WLAN Main	Left Edge	0	58	5290	10.00	9.98	1.03	100.46%	0.013	0.013	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.6G	WLAN Main	Back Surface	0	114	5570	9.50	9.49	1.03	100.23%	0.546	0.564	017
WLAN 802.11ac(160M) 5.2G	WLAN Main	Top Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.455	0.470	-
WLAN 802.11ac(160M) 5.2G	WLAN Main	Left Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.012	0.013	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.8G	WLAN Main	Back Surface	0	155	5775	9.00	8.99	1.03	100.23%	0.594	0.614	018
WLAN 802.11ac(80M) 5.8G	WLAN Main	Top Edge	0	155	5775	9.00	8.99	1.03	100.23%	0.142	0.147	-
WLAN 802.11ac(80M) 5.8G	WLAN Main	Left Edge	0	155	5775	9.00	8.99	1.03	100.23%	0.012	0.013	-
Mode	Antenna	Position	Distance (mm)	CH	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	WLAN Aux	Back Surface	0	1	2412	12.50	12.46	1.02	100.93%	0.674	0.692	-
WLAN 802.11b	WLAN Aux	Back Surface	0	6	2437	12.50	12.48	1.02	100.46%	0.737	0.753	-
WLAN 802.11b	WLAN Aux	Back Surface	0	11	2462	12.50	12.46	1.02	100.93%	0.765	0.785	019
WLAN 802.11b	WLAN Aux	Top Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.224	0.229	-
WLAN 802.11b	WLAN Aux	Right Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.091	0.093	-
Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	WLAN Aux	Back Surface	0	78	2480	11.00	9.21	1.34	151.01%	0.374	0.754	020
Bluetooth(GFSK)	WLAN Aux	Top Edge	0	78	2480	11.00	9.21	1.34	151.01%	0.084	0.169	-
Bluetooth(GFSK)	WLAN Aux	Right Edge	0	78	2480	11.00	9.21	1.34	151.01%	0.041	0.083	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.2G	WLAN Aux	Back Surface	0	50	5250	10.50	10.48	1.03	100.46%	0.656	0.679	021
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Top Edge	0	50	5250	10.50	10.48	1.03	100.46%	0.312	0.323	-
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Right Edge	0	50	5250	10.50	10.48	1.03	100.46%	0.011	0.011	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.3G	WLAN Aux	Back Surface	0	58	5290	10.50	10.49	1.03	100.23%	0.622	0.643	022
WLAN 802.11ac(80M) 5.3G	WLAN Aux	Top Edge	0	58	5290	10.50	10.49	1.03	100.23%	0.266	0.275	-
WLAN 802.11ac(80M) 5.3G	WLAN Aux	Right Edge	0	58	5290	10.50	10.49	1.03	100.23%	0.014	0.015	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.6G	WLAN Aux	Back Surface	0	114	5570	9.50	9.49	1.03	100.23%	0.721	0.745	023
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Top Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.161	0.166	-
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Right Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.012	0.013	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.8G	WLAN Aux	Back Surface	0	155	5775	8.50	8.48	1.03	100.46%	0.613	0.635	024
WLAN 802.11ac(80M) 5.8G	WLAN Aux	Top Edge	0	155	5775	8.50	8.48	1.03	100.46%	0.081	0.084	-
WLAN 802.11ac(80M) 5.8G	WLAN Aux	Right Edge	0	155	5775	8.50	8.48	1.03	100.46%	0.011	0.012	-

## Report No.: TESA2302000095EN

Mode	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 802.11ac(160M) 5.9G	Main	Back Surface	0	163	5815	9.50	9.48	1.03	100.46%	0.761	0.788	025
WLAN 802.11ac(160M) 5.9G	Main	Top Edge	0	163	5815	9.50	9.48	1.03	100.46%	0.727	0.753	-
WLAN 802.11ac(160M) 5.9G	Main	Left Edge	0	163	5815	9.50	9.48	1.03	100.46%	0.010	0.010	-
Mode	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 802.11ac(160M) 5.9G	Aux	Back Surface	0	163	5815	9.50	9.49	1.03	100.23%	0.764	0.789	026
WLAN 802.11ac(160M) 5.9G	Aux	Top Edge	0	163	5815	9.50	9.49	1.03	100.23%	0.360	0.372	-
WLAN 802.11ac(160M) 5.9G	Aux	Right Edge	0	163	5815	9.50	9.49	1.03	100.23%	0.014	0.014	-

\* - repeated at the highest SAR measurement according to the KDB 865664 D01

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Mode	Antenna	Position	Distance (mm)	CH	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	WLAN Main	Bottom Surface	0	1	2412	16.00	15.96	1.02	100.93%	0.385	0.395	-
WLAN 802.11b	WLAN Main	Bottom Surface	0	6	2437	16.00	15.98	1.02	100.46%	0.342	0.349	-
WLAN 802.11b	WLAN Main	Bottom Surface	0	11	2462	16.00	15.99	1.02	100.23%	0.398	0.406	027
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.2G	WLAN Main	Bottom Surface	0	50	5250	14.50	14.49	1.03	100.23%	0.471	0.487	028
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.3G	WLAN Main	Bottom Surface	0	58	5290	14.50	14.49	1.03	100.23%	0.494	0.510	029
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.6G	WLAN Main	Bottom Surface	0	114	5570	15.00	14.98	1.03	100.46%	0.660	0.684	030
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.8G	WLAN Main	Bottom Surface	0	155	5775	16.50	16.48	1.03	100.46%	0.778	0.806	031
Mode	Antenna	Position	Distance (mm)	CH	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	WLAN Aux	Bottom Surface	0	1	2412	15.50	15.48	1.02	100.46%	0.146	0.149	-
WLAN 802.11b	WLAN Aux	Bottom Surface	0	6	2437	15.50	15.44	1.02	101.39%	0.151	0.156	-
WLAN 802.11b	WLAN Aux	Bottom Surface	0	11	2462	15.50	15.46	1.02	100.93%	0.167	0.171	032
Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	WLAN Aux	Bottom Surface	0	78	2480	11.00	9.21	1.34	151.01%	0.044	0.088	033
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.2G	WLAN Aux	Bottom Surface	0	42	5210	17.50	16.87	1.03	115.74%	0.392	0.468	034
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.3G	WLAN Aux	Bottom Surface	0	58	5290	17.50	17.47	1.03	100.69%	0.376	0.390	035
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.6G	WLAN Aux	Bottom Surface	0	138	5690	17.25	17.24	1.03	100.23%	0.303	0.313	036
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.8G	WLAN Aux	Bottom Surface	0	155	5775	17.50	17.48	1.03	100.46%	0.319	0.330	037

## Report No.: TESA2302000095EN

Mode	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 802.11ax(160M) 5.9G	Main	Bottom Surface	0	163	5815	16.50	16.49	1.02	100.23%	1.080	1.104	038
WLAN 802.11ax(160M) 5.9G*	Main	Bottom Surface	0	163	5815	16.50	16.49	1.02	100.23%	1.050	1.073	-
Mode	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 802.11ac(80M) 5.9G	Aux	Bottom Surface	0	171	5855	17.50	17.48	1.03	100.46%	0.860	0.891	039
WLAN 802.11ac(80M) 5.9G*	Aux	Bottom Surface	0	171	5855	17.50	17.48	1.03	100.46%	0.854	0.885	-

\* - repeated at the highest SAR measurement according to the KDB 865664 D01

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Tablet mode

Report No.: TESA2204000049EN

Mode	Antenna	Position	Distance (mm)	CH	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	WLAN Main	Back Surface	0	1	2412	12.50	12.45	1.02	101.16%	0.884	0.909	-
WLAN 802.11b	WLAN Main	Back Surface	0	6	2437	12.50	12.48	1.02	100.46%	0.708	0.723	-
WLAN 802.11b	WLAN Main	Back Surface	0	11	2462	12.50	12.46	1.02	100.93%	0.887	0.910	040
WLAN 802.11b	WLAN Main	Top Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.149	0.152	-
WLAN 802.11b	WLAN Main	Left Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.078	0.079	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.2G	WLAN Main	Back Surface	0	50	5250	10.00	9.99	1.03	100.23%	0.312	0.322	041
WLAN 802.11ac(160M) 5.2G	WLAN Main	Top Edge	0	50	5250	10.00	9.99	1.03	100.23%	0.307	0.317	-
WLAN 802.11ac(160M) 5.2G	WLAN Main	Left Edge	0	50	5250	10.00	9.99	1.03	100.23%	0.010	0.010	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.3G	WLAN Main	Back Surface	0	58	5290	10.00	9.98	1.03	100.46%	0.347	0.359	042
WLAN 802.11ac(80M) 5.3G	WLAN Main	Top Edge	0	58	5290	10.00	9.98	1.03	100.46%	0.223	0.231	-
WLAN 802.11ac(80M) 5.3G	WLAN Main	Left Edge	0	58	5290	10.00	9.98	1.03	100.46%	0.012	0.012	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.6G	WLAN Main	Back Surface	0	114	5570	9.50	9.49	1.03	100.23%	0.479	0.495	043
WLAN 802.11ac(160M) 5.2G	WLAN Main	Top Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.265	0.274	-
WLAN 802.11ac(160M) 5.2G	WLAN Main	Left Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.011	0.011	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.8G	WLAN Main	Back Surface	0	155	5775	9.00	8.99	1.03	100.23%	0.469	0.485	044
WLAN 802.11ac(80M) 5.8G	WLAN Main	Top Edge	0	155	5775	9.00	8.99	1.03	100.23%	0.251	0.259	-
WLAN 802.11ac(80M) 5.8G	WLAN Main	Left Edge	0	155	5775	9.00	8.99	1.03	100.23%	0.008	0.009	-
Mode	Antenna	Position	Distance (mm)	CH	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	WLAN Aux	Back Surface	0	1	2412	12.50	12.46	1.02	100.93%	0.654	0.671	-
WLAN 802.11b	WLAN Aux	Back Surface	0	6	2437	12.50	12.48	1.02	100.46%	0.639	0.652	-
WLAN 802.11b	WLAN Aux	Back Surface	0	11	2462	12.50	12.46	1.02	100.93%	0.714	0.733	045
WLAN 802.11b	WLAN Aux	Top Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.144	0.147	-
WLAN 802.11b	WLAN Aux	Right Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.083	0.084	-
Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	WLAN Aux	Back Surface	0	78	2480	11.00	9.21	1.34	151.01%	0.362	0.730	046
Bluetooth(GFSK)	WLAN Aux	Top Edge	0	78	2480	11.00	9.21	1.34	151.01%	0.077	0.154	-
Bluetooth(GFSK)	WLAN Aux	Right Edge	0	78	2480	11.00	9.21	1.34	151.01%	0.036	0.073	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.2G	WLAN Aux	Back Surface	0	50	5250	10.50	10.48	1.03	100.46%	0.525	0.544	047
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Top Edge	0	50	5250	10.50	10.48	1.03	100.46%	0.121	0.125	-
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Right Edge	0	50	5250	10.50	10.48	1.03	100.46%	0.017	0.018	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.3G	WLAN Aux	Back Surface	0	58	5290	10.50	10.49	1.03	100.23%	0.500	0.517	048
WLAN 802.11ac(80M) 5.3G	WLAN Aux	Top Edge	0	58	5290	10.50	10.49	1.03	100.23%	0.116	0.120	-
WLAN 802.11ac(80M) 5.3G	WLAN Aux	Right Edge	0	58	5290	10.50	10.49	1.03	100.23%	0.016	0.017	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(160M) 5.6G	WLAN Aux	Back Surface	0	114	5570	9.50	9.49	1.03	100.23%	0.571	0.590	049
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Top Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.124	0.128	-
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Right Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.022	0.023	-
Mode	Antenna	Position	Distance (mm)	CH	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 802.11ac(80M) 5.8G	WLAN Aux	Back Surface	0	155	5775	8.50	8.48	1.03	100.46%	0.494	0.512	050
WLAN 802.11ac(80M) 5.8G	WLAN Aux	Top Edge	0	155	5775	8.50	8.48	1.03	100.46%	0.128	0.133	-
WLAN 802.11ac(80M) 5.8G	WLAN Aux	Right Edge	0	155	5775	8.50	8.48	1.03	100.46%	0.023	0.024	-

Report No.: TESA2302000095EN

Mode	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 802.11ac(160M) 5.9G	Main	Back Surface	0	163	5815	9.50	9.48	1.03	100.46%	0.687	0.712	051
WLAN 802.11ac(160M) 5.9G	Main	Top Edge	0	163	5815	9.50	9.48	1.03	100.46%	0.665	0.689	-
WLAN 802.11ac(160M) 5.9G	Main	Left Edge	0	163	5815	9.50	9.48	1.03	100.46%	0.005	0.005	-
Mode	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 802.11ac(160M) 5.9G	Aux	Back Surface	0	163	5815	9.50	9.49	1.03	100.23%	0.826	0.854	052
WLAN 802.11ac(160M) 5.9G	Aux	Top Edge	0	163	5815	9.50	9.49	1.03	100.23%	0.374	0.386	-
WLAN 802.11ac(160M) 5.9G	Aux	Right Edge	0	163	5815	9.50	9.49	1.03	100.23%	0.009	0.009	-
WLAN 802.11ac(160M) 5.9G	Aux	Back Surface	0	163	5815	9.50	9.49	1.03	100.23%	0.812	0.839	-

\* - repeated at the highest SAR measurement according to the KDB 865664 D01

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Report No.: TESA2204000049EN

Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-5 6.2GHz802.11ax(160M)	WLAN Main	Bottom Surface	0	15	6025	13.50	12.86	1.02	115.88%	0.324	0.383	0.21	-
U-NI-5 6.2GHz802.11ax(160M)	WLAN Main	Bottom Surface	0	47	6185	13.50	12.83	1.02	116.68%	0.335	0.399	0.217	053
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-6 6.5GHz802.11ax(160M)	WLAN Main	Bottom Surface	0	111	6505	13.50	13.11	1.02	109.40%	0.447	0.499	0.292	054
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-8 7.0GHz 802.11ax (160M)	WLAN Main	Bottom Surface	0	207	6985	12.75	12.69	1.02	101.39%	0.286	0.295	0.205	056
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-7 6.7GHz802.11ax(160M)	WLAN Main	Bottom Surface	0	143	6665	12.75	12.72	1.02	100.69%	0.352	0.362	0.241	055
U-NI-7 6.7GHz802.11ax(160M)	WLAN Main	Bottom Surface	0	175	6825	12.75	12.65	1.02	102.33%	0.298	0.311	0.211	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-5 6.2GHz802.11ax(160M)	WLAN Aux	Bottom Surface	0	15	6025	13.50	12.97	1.02	112.98%	0.129	0.149	0.0788	057
U-NI-5 6.2GHz802.11ax(160M)	WLAN Aux	Bottom Surface	0	47	6185	13.50	12.95	1.02	113.50%	0.112	0.130	0.102	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-6 6.5GHz802.11ax(160M)	WLAN Aux	Bottom Surface	0	111	6505	13.50	13.11	1.02	109.40%	0.185	0.206	0.123	058
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-7 6.7GHz802.11ax(160M)	WLAN Aux	Bottom Surface	0	143	6665	12.75	12.49	1.02	106.17%	0.223	0.241	0.152	059
U-NI-7 6.7GHz802.11ax(160M)	WLAN Aux	Bottom Surface	0	175	6825	12.75	12.47	1.02	106.66%	0.102	0.111	0.072	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-8 7.0GHz 802.11ax (160M)	WLAN Aux	Bottom Surface	0	207	6985	12.75	12.74	1.02	100.23%	0.243	0.248	0.147	060

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Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-5 6.2GHz202.11ax(160M)	WLAN Main	Back Surface	0	79	6345	9.00	8.98	1.02	100.46%	0.618	0.633	0.372	-
U-NI-5 6.2GHz202.11ax(160M)	WLAN Main	Top Edge	0	47	6185	9.00	8.97	1.02	100.69%	0.696	0.715	0.374	-
U-NI-5 6.2GHz202.11ax(160M)	WLAN Main	Top Edge	0	79	6345	9.00	8.98	1.02	100.46%	0.726	0.744	0.388	061
U-NI-5 6.2GHz202.11ax(160M)	WLAN Main	Left Edge	0	79	6345	9.00	8.98	1.02	100.46%	0.902	0.902	0.901	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-6 6.5GHz202.11ax(160M)	WLAN Main	Back Surface	0	111	6505	9.00	8.99	1.02	100.23%	0.772	0.789	0.46	-
U-NI-6 6.5GHz202.11ax(160M)	WLAN Main	Top Edge	0	111	6505	9.00	8.99	1.02	100.23%	0.861	0.880	0.461	062
U-NI-6 6.5GHz202.11ax(160M)	WLAN Main	Left Edge	0	111	6505	9.00	8.99	1.02	100.23%	0.004	0.004	0.002	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-7 6.7GHz202.11ax(160M)	WLAN Main	Back Surface	0	143	6665	9.00	8.98	1.02	100.46%	0.678	0.695	0.415	-
U-NI-7 6.7GHz202.11ax(160M)	WLAN Main	Top Edge	0	143	6665	9.00	8.98	1.02	100.46%	0.841	0.862	0.451	063
U-NI-7 6.7GHz202.11ax(160M)	WLAN Main	Top Edge	0	175	6825	9.00	8.97	1.02	100.69%	0.766	0.787	0.437	-
U-NI-7 6.7GHz202.11ax(160M)	WLAN Main	Left Edge	0	143	6665	9.00	8.98	1.02	100.46%	0.006	0.006	0.003	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-8 7.0GHz202.11ax(80M)	WLAN Main	Back Surface	0	183	6865	9.00	8.95	1.02	101.16%	0.620	0.640	0.401	-
U-NI-8 7.0GHz202.11ax(80M)	WLAN Main	Top Edge	0	183	6865	9.00	8.95	1.02	101.16%	0.773	0.798	0.432	064
U-NI-8 7.0GHz202.11ax(80M)	WLAN Main	Left Edge	0	183	6865	9.00	8.95	1.02	101.16%	0.003	0.003	0.002	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-5 6.2GHz202.11ax(160M)	WLAN Aux	Back Surface	0	47	6185	9.00	8.99	1.02	100.23%	0.595	0.608	0.368	065
U-NI-5 6.2GHz202.11ax(160M)	WLAN Aux	Back Surface	0	79	6345	9.00	8.98	1.02	100.46%	0.544	0.557	0.327	-
U-NI-5 6.2GHz202.11ax(160M)	WLAN Aux	Top Edge	0	47	6185	9.00	8.99	1.02	100.23%	0.189	0.193	0.125	-
U-NI-5 6.2GHz202.11ax(160M)	WLAN Aux	Right Edge	0	47	6185	9.00	8.99	1.02	100.23%	0.029	0.030	0.0138	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-6 6.5GHz202.11ax(160M)	WLAN Aux	Back Surface	0	111	6505	9.00	8.98	1.02	100.46%	0.370	0.379	0.233	066
U-NI-6 6.5GHz202.11ax(160M)	WLAN Aux	Top Edge	0	111	6505	9.00	8.98	1.02	100.46%	0.189	0.194	0.102	-
U-NI-6 6.5GHz202.11ax(160M)	WLAN Aux	Right Edge	0	111	6505	9.00	8.98	1.02	100.46%	0.016	0.016	0.007	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-7 6.7GHz202.11ax(160M)	WLAN Aux	Back Surface	0	143	6665	9.00	8.99	1.02	100.23%	0.454	0.464	0.319	067
U-NI-7 6.7GHz202.11ax(160M)	WLAN Aux	Top Edge	0	143	6665	9.00	8.99	1.02	100.23%	0.301	0.308	0.165	-
U-NI-7 6.7GHz202.11ax(160M)	WLAN Aux	Right Edge	0	143	6665	9.00	8.99	1.02	100.23%	0.027	0.028	0.0134	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-8 7.0GHz202.11ax(80M)	WLAN Aux	Back Surface	0	183	6865	9.00	8.97	1.03	100.69%	0.617	0.641	0.401	068
U-NI-8 7.0GHz202.11ax(80M)	WLAN Aux	Top Edge	0	183	6865	9.00	8.97	1.03	100.69%	0.400	0.415	0.221	-
U-NI-8 7.0GHz202.11ax(80M)	WLAN Aux	Right Edge	0	183	6865	9.00	8.97	1.03	100.69%	0.020	0.021	0.0113	-

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Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-5 6.2GHz202.11ax(160M)	WLAN Main	Bottom Surface	0	15	6025	13.50	12.86	1.02	115.88%	0.263	0.311	0.171	069
U-NI-5 6.2GHz202.11ax(160M)	WLAN Main	Bottom Surface	0	47	6185	13.50	12.83	1.02	116.68%	0.242	0.288	0.149	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-6 6.5GHz202.11ax(160M)	WLAN Main	Bottom Surface	0	111	6505	13.50	13.11	1.02	109.40%	0.344	0.384	0.231	070
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-7 6.7GHz202.11ax(160M)	WLAN Main	Bottom Surface	0	143	6665	12.75	12.72	1.02	100.69%	0.266	0.273	0.185	071
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-8 7.0GHz 802.11ax (160M)	WLAN Main	Bottom Surface	0	207	6985	12.75	12.69	1.02	101.39%	0.214	0.221	0.159	072
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-5 6.2GHz202.11ax(160M)	WLAN Aux	Bottom Surface	0	15	6025	13.50	12.97	1.02	112.98%	0.100	0.115	0.0821	073
U-NI-5 6.2GHz202.11ax(160M)	WLAN Aux	Bottom Surface	0	47	6185	13.50	12.95	1.02	113.50%	0.084	0.097	0.0513	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-6 6.5GHz202.11ax(160M)	WLAN Aux	Bottom Surface	0	111	6505	13.50	13.11	1.02	109.40%	0.142	0.158	0.0945	074
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-7 6.7GHz202.11ax(160M)	WLAN Aux	Bottom Surface	0	143	6665	12.75	12.49	1.02	106.17%	0.155	0.168	0.105	075
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-8 7.0GHz 802.11ax (160M)	WLAN Aux	Bottom Surface	0	207	6985	12.75	12.74	1.02	100.23%	0.109	0.111	0.0762	076

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Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-5 6.2GHz202.11ax(160M)	WLAN Main	Back Surface	0	79	6345	9.00	8.98	1.02	100.46%	0.443	0.454	0.264	-
U-NI-5 6.2GHz202.11ax(160M)	WLAN Main	Top Edge	0	47	6185	9.00	8.97	1.02	100.69%	0.513	0.527	0.27	-
U-NI-5 6.2GHz202.11ax(160M)	WLAN Main	Top Edge	0	79	6345	9.00	8.98	1.02	100.46%	0.541	0.554	0.28	077
U-NI-5 6.2GHz202.11ax(160M)	WLAN Main	Left Edge	0	79	6345	9.00	8.98	1.02	100.46%	0.504	0.504	0.302	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-6 6.5GHz202.11ax(160M)	WLAN Main	Back Surface	0	111	6505	9.00	8.99	1.02	100.23%	0.527	0.539	0.314	-
U-NI-6 6.5GHz202.11ax(160M)	WLAN Main	Top Edge	0	111	6505	9.00	8.99	1.02	100.23%	0.678	0.693	0.356	078
U-NI-6 6.5GHz202.11ax(160M)	WLAN Main	Left Edge	0	111	6505	9.00	8.99	1.02	100.23%	0.005	0.005	0.003	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-7 6.7GHz202.11ax(160M)	WLAN Main	Back Surface	0	143	6665	9.00	8.98	1.02	100.46%	0.526	0.539	0.321	-
U-NI-7 6.7GHz202.11ax(160M)	WLAN Main	Top Edge	0	143	6665	9.00	8.98	1.02	100.46%	0.702	0.719	0.369	079
U-NI-7 6.7GHz202.11ax(160M)	WLAN Main	Left Edge	0	143	6665	9.00	8.98	1.02	100.46%	0.008	0.008	0.004	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-8 7.0GHz202.11ax(80M)	WLAN Main	Back Surface	0	183	6865	9.00	8.95	1.03	101.16%	0.498	0.519	0.324	-
U-NI-8 7.0GHz202.11ax(80M)	WLAN Main	Top Edge	0	183	6865	9.00	8.95	1.03	101.16%	0.644	0.672	0.356	080
U-NI-8 7.0GHz202.11ax(80M)	WLAN Main	Left Edge	0	183	6865	9.00	8.95	1.03	101.16%	0.008	0.006	0.003	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-5 6.2GHz202.11ax(160M)	WLAN Aux	Back Surface	0	47	6185	9.00	8.99	1.02	100.23%	0.536	0.548	0.333	081
U-NI-5 6.2GHz202.11ax(160M)	WLAN Aux	Back Surface	0	79	6345	9.00	8.98	1.02	100.46%	0.530	0.543	0.323	-
U-NI-5 6.2GHz202.11ax(160M)	WLAN Aux	Top Edge	0	47	6185	9.00	8.99	1.02	100.23%	0.124	0.127	0.0825	-
U-NI-5 6.2GHz202.11ax(160M)	WLAN Aux	Right Edge	0	47	6185	9.00	8.99	1.02	100.23%	0.013	0.013	0.007	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-6 6.5GHz202.11ax(160M)	WLAN Aux	Back Surface	0	111	6505	9.00	8.98	1.02	100.46%	0.412	0.422	0.256	082
U-NI-6 6.5GHz202.11ax(160M)	WLAN Aux	Top Edge	0	111	6505	9.00	8.98	1.02	100.46%	0.158	0.162	0.0826	-
U-NI-6 6.5GHz202.11ax(160M)	WLAN Aux	Right Edge	0	111	6505	9.00	8.98	1.02	100.46%	0.011	0.011	0.005	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-7 6.7GHz202.11ax(160M)	WLAN Aux	Back Surface	0	143	6665	9.00	8.99	1.02	100.23%	0.416	0.425	0.281	083
U-NI-7 6.7GHz202.11ax(160M)	WLAN Aux	Top Edge	0	143	6665	9.00	8.99	1.02	100.23%	0.241	0.246	0.151	-
U-NI-7 6.7GHz202.11ax(160M)	WLAN Aux	Right Edge	0	143	6665	9.00	8.99	1.02	100.23%	0.009	0.009	0.006	-
Mode	Antenna	Position	Distance (mm)	CH	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 mW/cm <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported		
U-NI-8 7.0GHz202.11ax(80M)	WLAN Aux	Back Surface	0	183	6865	9.00	8.97	1.03	100.69%	0.526	0.546	0.34	084
U-NI-8 7.0GHz202.11ax(80M)	WLAN Aux	Top Edge	0	183	6865	9.00	8.97	1.03	100.69%	0.298	0.309	0.154	-
U-NI-8 7.0GHz202.11ax(80M)	WLAN Aux	Right Edge	0	183	6865	9.00	8.97	1.03	100.69%	0.014	0.015	0.007	-

**Note:**

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

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

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## 8.3 Summary of PD Results

## High-Tek

## Report No.: TESA2204000049EN

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (mW/cm <sup>2</sup> )	Reported Total psPD (mW/cm <sup>2</sup> )	Measured Normal psPD (mW/cm <sup>2</sup> )	Reported Normal psPD (mW/cm <sup>2</sup> )	
WLAN 6E 802.11ax(160M) U-NII-5	Top Edge	2	47	6185	9.00	8.92	101.86%	1.02	1.55	0.186	0.300	0.163	0.262	085
	Top Edge	2	79	6345	9.00	8.92	101.86%	1.02	1.55	0.197	0.317	0.184	0.296	086
WLAN 6E 802.11ax(160M) U-NII-6	Top Edge	2	111	6505	9.00	8.92	101.86%	1.02	1.55	0.218	0.351	0.200	0.322	087
WLAN 6E 802.11ax(160M) U-NII-7	Top Edge	2	143	6665	9.00	8.92	101.86%	1.02	1.55	0.256	0.412	0.221	0.356	088
WLAN 6E 802.11ax(80M) U-NII-8	Top Edge	2	183	6865	9.00	8.92	101.86%	1.02	1.55	0.271	0.436	0.221	0.356	089
Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (mW/cm <sup>2</sup> )	Reported Total psPD (mW/cm <sup>2</sup> )	Measured Normal psPD (mW/cm <sup>2</sup> )	Reported Normal psPD (mW/cm <sup>2</sup> )	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	47	6185	9.00	8.97	100.69%	1.02	1.55	0.152	0.242	0.140	0.223	090
	Back Surface	2	79	6345	9.00	8.97	100.69%	1.02	1.55	0.152	0.242	0.137	0.218	091
WLAN 6E 802.11ax(160M) U-NII-6	Back Surface	2	111	6505	9.00	8.97	100.69%	1.02	1.55	0.084	0.133	0.056	0.089	092
WLAN 6E 802.11ax(160M) U-NII-7	Back Surface	2	143	6665	9.00	8.97	100.69%	1.02	1.55	0.115	0.183	0.095	0.152	093
WLAN 6E 802.11ax(80M) U-NII-8	Back Surface	2	183	6865	9.00	8.97	100.69%	1.02	1.55	0.175	0.279	0.146	0.232	094

## PULSE

## Report No.: TESA2204000049EN

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (mW/cm <sup>2</sup> )	Reported Total psPD (mW/cm <sup>2</sup> )	Measured Normal psPD (mW/cm <sup>2</sup> )	Reported Normal psPD (mW/cm <sup>2</sup> )	
WLAN 6E 802.11ax(160M) U-NII-5	Top Edge	2	47	6185	9.00	8.92	101.86%	1.02	1.55	0.153	0.246	0.125	0.201	095
	Top Edge	2	79	6345	9.00	8.92	101.86%	1.02	1.55	0.177	0.285	0.161	0.259	096
WLAN 6E 802.11ax(160M) U-NII-6	Top Edge	2	111	6505	9.00	8.92	101.86%	1.02	1.55	0.193	0.311	0.169	0.272	097
WLAN 6E 802.11ax(160M) U-NII-7	Top Edge	2	143	6665	9.00	8.92	101.86%	1.02	1.55	0.214	0.345	0.202	0.325	098
WLAN 6E 802.11ax(160M) U-NII-8	Top Edge	2	207	6985	9.00	8.92	101.86%	1.02	1.55	0.218	0.351	0.200	0.322	099
Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (mW/cm <sup>2</sup> )	Reported Total psPD (mW/cm <sup>2</sup> )	Measured Normal psPD (mW/cm <sup>2</sup> )	Reported Normal psPD (mW/cm <sup>2</sup> )	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	47	6185	9.00	8.97	100.69%	1.02	1.55	0.161	0.256	0.148	0.236	100
	Back Surface	2	79	6345	9.00	8.97	100.69%	1.02	1.55	0.184	0.293	0.152	0.242	101
WLAN 6E 802.11ax(160M) U-NII-6	Back Surface	2	111	6505	9.00	8.97	100.69%	1.02	1.55	0.080	0.127	0.063	0.099	102
WLAN 6E 802.11ax(160M) U-NII-7	Back Surface	2	143	6665	9.00	8.97	100.69%	1.02	1.55	0.100	0.159	0.091	0.145	103
WLAN 6E 802.11ax(160M) U-NII-8	Back Surface	2	183	6865	9.00	8.97	100.69%	1.02	1.55	0.188	0.299	0.159	0.253	104

## Note:

Reported PD = measured PD \* Power scaling \* Duty cycle scaling \* Uncertainty

## scaling

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#### 8.4 Reporting statements of conformity

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

#### 8.5 Conclusion

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

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## 9 SIMULTANEOUS TRANSMISSION ANALYSIS

### 9.1 Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WLAN 2.4GHz Main + BT Aux	Yes
WLAN 2.4GHz Main + WLAN 2.4GHz Aux	Yes
WLAN 5GHz Main + BT Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux	Yes
WLAN 6GHz Main + BT Aux	Yes
WLAN 6GHz Main + WLAN 6GHz Aux	Yes
WLAN 6GHz Main + WLAN 6GHz Aux + BT Aux	Yes
<p>Note:</p> <ol style="list-style-type: none"> <li>1. Bluetooth and WLAN Aux share the same antenna path, and BT can transmit with WLAN Main simultaneously.</li> <li>2. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission is the same with or less than that used in standalone transmission, and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the simultaneous transmitted SAR measurement.</li> </ol>	

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## 9.2 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.

## 9.3 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  
High-Tek

Report No.: TESA2204000049EN

Exposure Position		Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	Scenario 9	Scenario 10
		1	2	3	4	5	6	7	1+5	1+2	3+5	4+5	3+4	3+4+5	5+6	5+7	6+7	5+6+7
		2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	5GHz WLAN Main	5GHz WLAN Aux	Summed	Summed	Summed	Summed	Summed	Summed	Summed	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)	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	0.425	0.194	0.957	0.419	0.085	0.459	0.248	0.911	0.619	1.043	0.595	1.376	1.462	0.585	0.334	0.747	0.833
Back Surface	0	0.870	0.785	0.614	0.779	0.754	0.789	0.641	1.624	1.686	1.388	1.533	1.383	2.147	1.543	1.385	1.430	2.194
Top Edge	0	0.156	0.229	0.476	0.323	0.169	0.004	0.415	0.325	0.385	0.645	0.492	0.799	0.968	0.173	0.584	0.419	0.588
Left Edge	0	0.034	-	0.020	-	-	0.006	-	0.024	0.024	0.020	0.000	0.020	0.020	0.006	0.000	0.006	0.006
Right Edge	0	-	0.093	-	0.018	0.083	-	0.030	0.083	0.093	0.083	0.101	0.016	0.101	0.083	0.113	0.030	0.113

Scenario 1:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			$\Sigma$ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.870	9.76	-8.70	-0.49	-	-	-	-
	Bluetooth Aux	0.754	9.78	11.08	-0.43	1.624	197.80	0.010	SPLSR $\leq$ 0.04, Not required

Top View



Scenario 2:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			$\Sigma$ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.870	9.76	-8.70	-0.49	-	-	-	-
	WLAN 2.4G Aux	0.785	9.90	11.18	-0.42	1.655	198.81	0.011	SPLSR $\leq$ 0.04, Not required

Top View



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Scenario 6:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 5G Main	0.614	10.48	-8.20	-0.48	-	-	-	-
	WLAN 5G Aux	0.779	9.72	11.70	-0.42	2.147	199.15	0.016	SPLSR ≤ 0.04, Not required
	Bluetooth Aux	0.754	9.78	11.08	-0.43	2.147	192.93	0.016	SPLSR ≤ 0.04, Not required
									
Scenario 10:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 6E Main	0.789	10.38	-8.04	-0.45	-	-	-	-
	WLAN 6E Aux	0.641	9.70	11.70	-0.42	2.184	199.15	0.016	SPLSR ≤ 0.04, Not required
	Bluetooth Aux	0.754	9.78	11.08	-0.43	2.184	192.93	0.017	SPLSR ≤ 0.04, Not required
									

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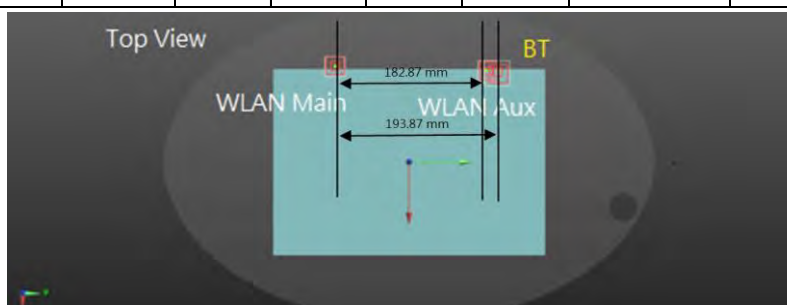
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Report No.: TESA2302000095EN

Exposure Position /Distance		FCC Reported SAR			Scenario1
		1	2	3	1+2+3
		5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Bottom Surface	0	0.890	0.624	0.086	1.600
Back Surface	0	0.788	0.789	0.754	2.331
Top Edge	0	0.753	0.372	0.169	1.294
Left Edge	0	0.010			0.010
Right Edge	0		0.014	0.083	0.097

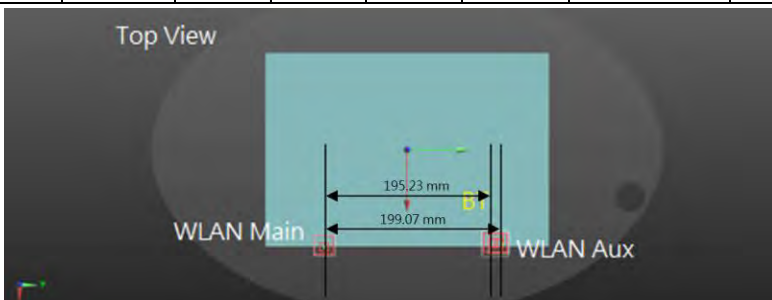
Scenario 1:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 5G Main	0.890	-11.24	-8.80	-0.13	-	-	-	-
	WLAN 5G Aux	0.624	-10.74	9.48	-0.09	1.514	182.87	0.010	SPLSR ≤ 0.04, Not required
	BT Aux	0.086	-10.72	10.58	-0.06	0.976	193.87	0.005	SPLSR ≤ 0.04, Not required
	WLAN 5G(+ BT) Aux	0.710	-10.74	9.48	-0.09	1.600	182.87	0.011	SPLSR ≤ 0.04, Not required



Scenario 1:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back surface	WLAN 5G Main	0.788	11.32	-9.32	-0.15	-	-	-	-
	WLAN 5G Aux	0.789	10.78	10.58	-0.09	1.577	199.07	0.010	SPLSR ≤ 0.04, Not required
	BT Aux	0.754	10.62	10.19	-0.11	1.542	195.23	0.010	SPLSR ≤ 0.04, Not required
	WLAN 5G(+ BT) Aux	1.543	10.62	10.19	-0.11	2.331	195.23	0.018	SPLSR ≤ 0.04, Not required



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		Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	Scenario 9	Scenario 10
Exposure Position		1	2	3	4	5	6	7	1+5	1+2	3+5	4+5	3+4	3+4+5	5+6	5+7	5+7	5+6+7
		2.4GHz WLAN	2.4GHz WLAN	5GHz WLAN	5GHz WLAN	Bluetooth	6GHz WLAN	6GHz WLAN	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
		Aux	Aux	Main	Aux	Aux	Main	Aux	Aux	Aux	Aux	Aux	Aux	Aux	Aux	Aux	Aux	Aux
		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)	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	0.406	0.171	0.806	0.468	0.088	0.384	0.168	0.494	0.577	0.894	0.556	1.274	1.362	0.472	0.286	0.552	0.640
Back Surface	0	0.910	0.733	0.569	0.543	0.730	0.539	0.548	1.640	1.643	1.299	1.373	1.212	1.942	1.269	1.278	1.087	1.817
Top Edge	0	0.152	0.147	0.362	0.168	0.154	0.719	0.309	0.306	0.299	0.916	0.332	0.630	0.684	0.873	0.463	1.028	1.182
Left Edge	0	0.079	-	0.015	-	-	0.008	-	0.079	0.079	0.015	0.000	0.015	0.015	0.008	0.000	0.008	0.008
Right Edge	0	-	0.084	-	0.031	0.073	-	0.015	0.073	0.084	0.073	0.104	0.031	0.104	0.073	0.088	0.015	0.088

Scenario 1:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.910	9.78	-9.02	-0.46	-	-	-	-
	Bluetooth Aux	0.730	9.78	11.08	-0.44	1.640	201.00	0.010	SPLSR ≤ 0.04, Not required
									

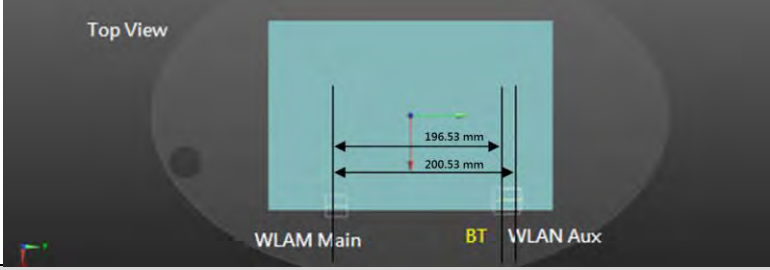
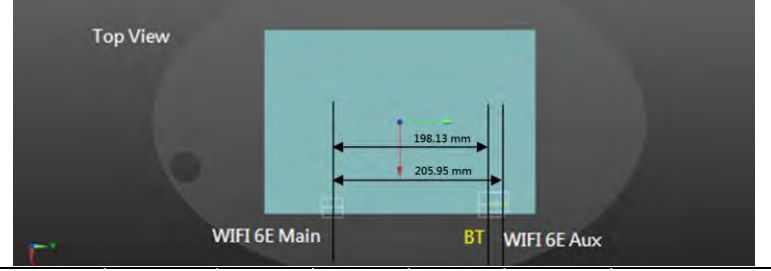
Scenario 2:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.910	9.78	-9.02	-0.46	-	-	-	-
	WLAN 2.4G Aux	0.733	9.80	10.82	-0.42	1.643	198.40	0.011	SPLSR ≤ 0.04, Not required
									

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Scenario 6:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 5G Main	0.569	10.50	-8.56	-0.45	-	-	-	-
	WLAN 5G Aux	0.643	9.78	11.48	-0.42	1.942	200.53	0.013	SPLSR ≤ 0.04, Not required
	Bluetooth Aux	0.730	9.78	11.08	-0.44	1.942	196.53	0.014	SPLSR ≤ 0.04, Not required
									
Scenario 10:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 6E Main	0.539	10.15	-8.73	-0.47	-	-	-	-
	WLAN 6E Aux	0.548	9.68	11.86	-0.44	1.817	204.36	0.012	SPLSR ≤ 0.04, Not required
	Bluetooth Aux	0.730	9.78	11.08	-0.44	1.817	196.53	0.012	SPLSR ≤ 0.04, Not required
									

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Report No.: TESA2302000095EN

Exposure Position /Distance		FCC Reported SAR			Scenario1
		1	2	3	1+2+3
		5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Bottom Surface	0	1.104	0.891	0.088	2.083
Back Surface	0	0.712	0.854	0.730	2.296
Top Edge	0	0.689	0.386	0.154	1.229
Left Edge	0	0.005			0.005
Right Edge	0		0.009	0.073	0.082

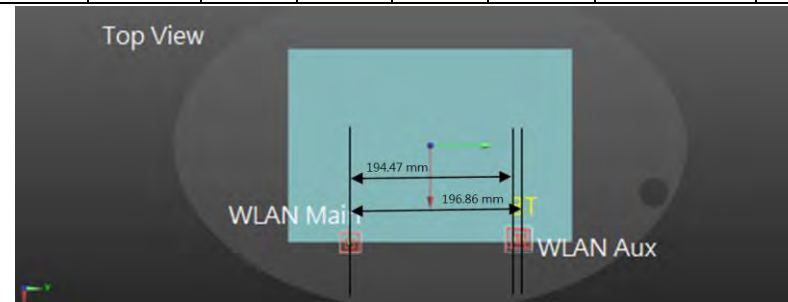
Scenario 1:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 5G Main	1.104	-11.48	-8.80	-0.13	-	-	-	-
	WLAN 5G Aux	0.891	-11.04	9.32	-0.09	1.995	181.25	0.016	SPLSR ≤ 0.04, Not required
	BT Aux	0.088	-10.69	10.47	-0.10	1.192	192.86	0.007	SPLSR ≤ 0.04, Not required
	WLAN 5G(+ BT) Aux	0.979	-11.04	9.32	-0.09	2.083	181.25	0.017	SPLSR ≤ 0.04, Not required



Scenario 1:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back surface	WLAN 5G Main	0.712	11.34	-9.26	-0.11	-	-	-	-
	WLAN 5G Aux	0.854	10.86	10.42	-0.09	1.566	196.86	0.010	SPLSR ≤ 0.04, Not required
	BT Aux	0.730	10.82	10.18	-0.10	1.442	194.47	0.009	SPLSR ≤ 0.04, Not required
	WLAN 5G(+ BT) Aux	1.584	10.82	10.18	-0.10	2.296	194.47	0.018	SPLSR ≤ 0.04, Not required



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#### 9.4 Conclusion

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

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# 10 INSTRUMENTS LIST

Report No.: TESA2302000095EN

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1260	Sep/22/2022	Sep/21/2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Mar/21/2022	Mar/20/2023
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/22/2022	Mar/21/2023
SPEAG	Dielectric Assessment Kit	DAKS-12	1039	Oct/10/2022	Oct/09/2023
R&S	MXG Analog Signal Generator	SMB100A03	182012	Jun/13/2022	Jun/12/2023
Agilent	Dual-directional coupler	772D	MY46151258	Oct/03/2022	Oct/02/2023
Agilent	Dual-directional coupler	778D	MY46151242	Aug/30/2022	Aug/29/2023
EMCI	Amplifier	EMC 2830P	980156	Calibration not required	Calibration not required
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 52 V52.10.4.152 7	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
TECPEL	Digital thermometer	DTM-303A	TP131515	Sep/29/2022	Sep/28/2023

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## Report No.: TESA2204000049EN

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	7642	Mar.02,2022	Mar.01,2023
			7466	Jan.26,2022	Jan.25,2023
		EUmmWV4	9579	Oct.06,2021	Oct.05,2022
SPEAG	System Validation Dipole	D2450V2	835	Jun.22,2021	Jun.21,2022
		D5GHzV2	1023	Jan.27,2022	Jan.26,2023
		D6.5GHzV2	1006	Aug.26,2021	Aug.25,2022
		D7GHzV2	1007	Aug.26,2021	Aug.25,2022
		5G-Veri10	1021	Jan.24,2022	Jan.23,2023
SPEAG	Data acquisition Electronics	DAE4	679	Jun.01,2021	May.31,2022
			558	Nov.23,2021	Nov.22,2022
SPEAG	Software	DASY 52 V52.10.4(1527)	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 V16.0.2.136	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 mmWave V2.4.2.62	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
		mmWave			
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb.28,2022	Feb.27,2023
Agilent	Dual-directional coupler	772D	MY46151242	Aug.16.2021	Aug.15.2022
		778D	MY48220468	Aug.16.2021	Aug.15.2022
Agilent	MXG Analog Signal Generator	N5181A	MY50141235	May.30,2021	May.29,2022
R&S	MXG Analog Signal Generator	SMB100A03	182996	Dec.08,2021	Dec.07,2022
EMCI	Amplifier	EMC 2830P	980156	Calibration not required	Calibration not required

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
R&S	Power Meter	NRX	102034	Dec.28,2021	Dec.27,2022
R&S	Power Sensor	NRP18S	101974	Oct.12.2021	Oct.11.2022
R&S	Power Sensor	NRP18S	109066	Oct.12.2021	Oct.11.2022
TECPEL	Digital thermometer	DTM-303A	TP130075	Oct.28.2021	Oct.27.2022

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## 11 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%	∞
<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>	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
<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.)	3.15%	N	1	1	0.64	0.43	2.02%	1.35%	M
Liquid Conductivity (mea.)	3.25%	N	1	1	0.6	0.49	1.95%	1.59%	M
Combined standard uncertainty		RSS					12.05%	11.89%	
Expan uncertainty (95% confidence interval), K=2							24.09%	23.78%	

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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	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
<b>Measurement drift (class A evaluation)</b>	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
<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	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.54%	N	1	1	0.64	0.43	0.35%	0.23%	M
Liquid Conductivity (mea.)	0.89%	N	1	1	0.6	0.49	0.53%	0.44%	M
Combined standard uncertainty		RSS					11.44%	11.42%	
Expant uncertainty (95% confidence interval), K=2							22.87%	22.84%	

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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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**cDASY6 Module mmWave Uncertainty Budget for PD  
Evaluation Distances to the Antennas  $\geq \lambda/5$   
In Compliance with IEC/IEEE 63195**

a	b	c	d		e	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+dB)	Probability Distribution	Div.	Div. Value	ci	Std. uncertainty (+dB)	(vi) Veff
<b>Uncertainty terms dependent on the measurement system</b>							
Probe calibration	0.49	N	1	1	1	0.49	$\infty$
Probe correction	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Frequency response (BW $\leq$ 1GHz)	0.20	R	$\sqrt{3}$	1.732	1	0.12	$\infty$
Sensor cross coupling	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Isotropy	0.50	R	$\sqrt{3}$	1.732	1	0.29	$\infty$
Linearity	0.20	R	$\sqrt{3}$	1.732	1	0.12	$\infty$
Probe scattering	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Probe positioning offset	0.30	R	$\sqrt{3}$	1.732	1	0.17	$\infty$
Probe positioning repeatability	0.04	R	$\sqrt{3}$	1.732	1	0.02	$\infty$
Sensor mechanical offset	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Probe spatial resolution	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Field impedance dependance	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Amplitude and phase drift	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Amplitude and phase noise	0.04	R	$\sqrt{3}$	1.732	1	0.02	$\infty$
Measurement area truncation	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Data acquisition	0.03	N	1	1	1	0.03	$\infty$
Sampling	0.00	R	$\sqrt{3}$	1	1	0.00	$\infty$
Field reconstruction	2.00	R	$\sqrt{3}$	1.732	1	1.15	$\infty$
Forward transformation	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Power density scaling	-	R	$\sqrt{3}$	1.732	1	-	$\infty$
Spatial averaging	0.10	R	$\sqrt{3}$	1.732	1	0.06	$\infty$
System detection limit	0.04	R	$\sqrt{3}$	1.732	1	0.02	$\infty$
<b>Uncertainty terms dependent on the DUT and environmental factors</b>							
Probe coupling with DUT	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Modulation response	0.40	R	$\sqrt{3}$	1.732	1	0.23	$\infty$
Integration time	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Response time	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Device holder influence	0.10	R	$\sqrt{3}$	1.732	1	0.06	$\infty$
DUT alignment	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
RF ambient conditions	0.04	R	$\sqrt{3}$	1.732	1	0.02	$\infty$
Ambient reflections	0.04	R	$\sqrt{3}$	1.732	1	0.02	$\infty$
Immunity / secondary reception	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Drift of the DUT	-	R	$\sqrt{3}$	1.732	1	-	$\infty$
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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**12 SAR MEASUREMENT RESULTS**

ID: 001

Date: 2022/5/4

Report No. :TESA2204000049EN

**WLAN 802.11b\_Body\_Bottom Surface\_CH 1\_0mm\_Main**

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.017

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.782$  S/m;  $\epsilon_r = 39.458$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2412 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.553 W/kg

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

Reference Value = 3.617 V/m; Power Drift = 0.06 dB

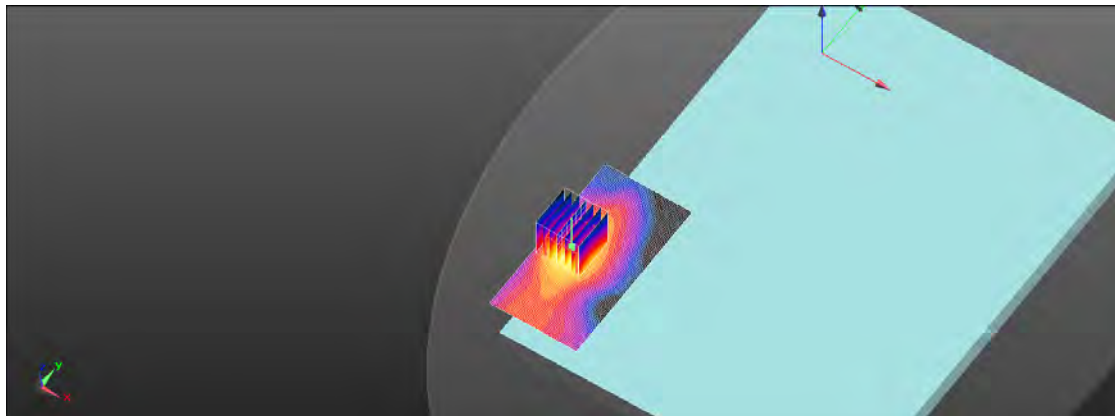
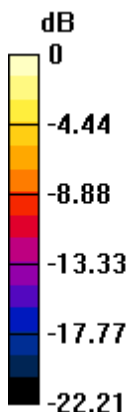
Peak SAR (extrapolated) = 0.981 W/kg

**SAR(1 g) = 0.414 W/kg; SAR(10 g) = 0.182 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 42.2%

Maximum value of SAR (measured) = 0.673 W/kg



0 dB = 0.673 W/kg = -1.72 dBW/kg

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Date: 2022/5/5

Report No. :TESA2204000049EN

WLAN 802.11ac(160M) 5.2G\_Body\_Bottom Surface\_CH 50\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.687$  S/m;  $\epsilon_r = 36.073$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.887 W/kg

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

Reference Value = 4.294 V/m; Power Drift = 0.13 dB

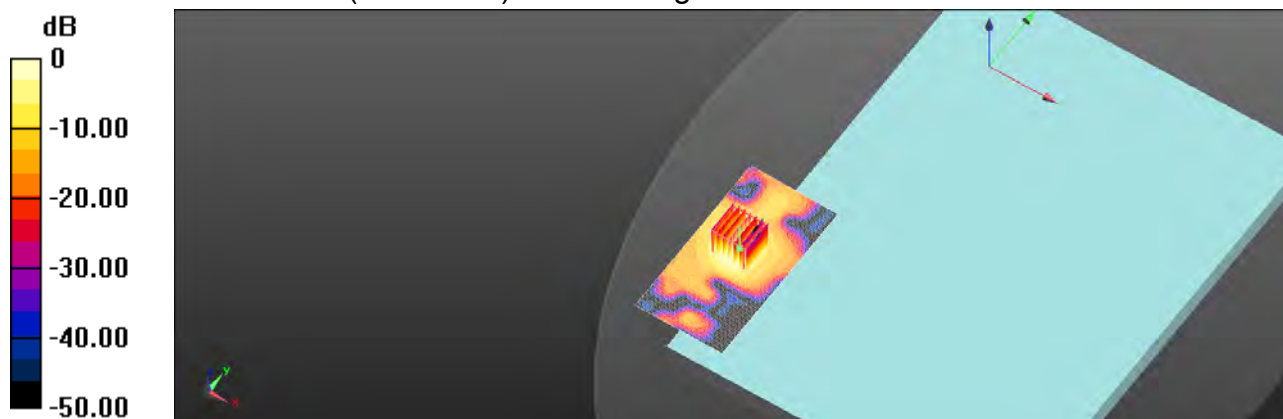
Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.158 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 60%

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

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Date: 2022/5/5

Report No. :TESA2204000049EN

WLAN 802.11ac(80M) 5.3G\_Body\_Bottom Surface\_CH 58\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5290 \text{ MHz}$ ;  $\sigma = 4.744 \text{ S/m}$ ;  $\epsilon_r = 35.946$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.910 W/kg

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

Reference Value = 4.037 V/m; Power Drift = 0.09 dB

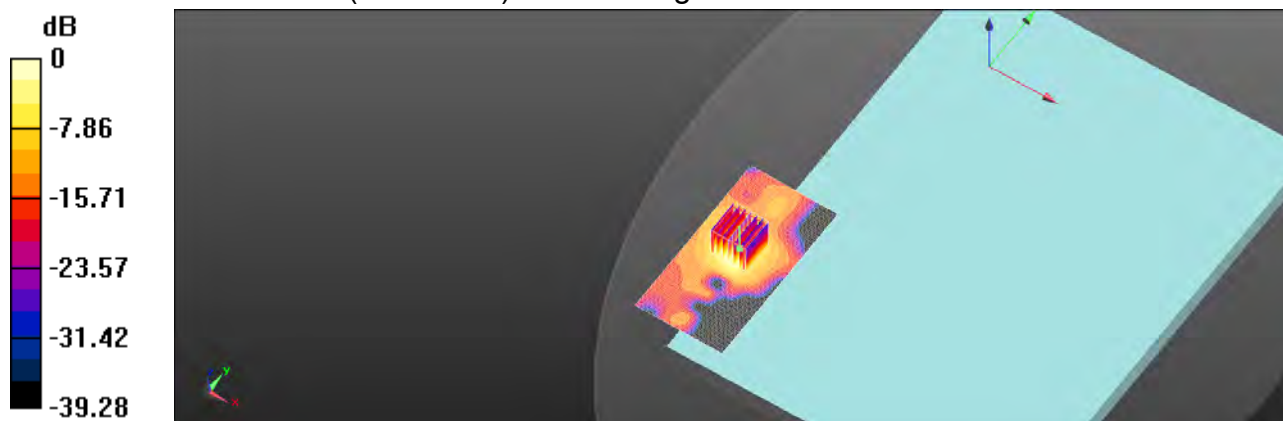
Peak SAR (extrapolated) = 2.01 W/kg

**SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.162 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 59.5%

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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Date: 2022/5/6

Report No.: TESA2204000049EN

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

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5570$  MHz;  $\sigma = 5.077$  S/m;  $\epsilon_r = 35.594$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.59 W/kg

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

Reference Value = 5.257 V/m; Power Drift = 0.07 dB

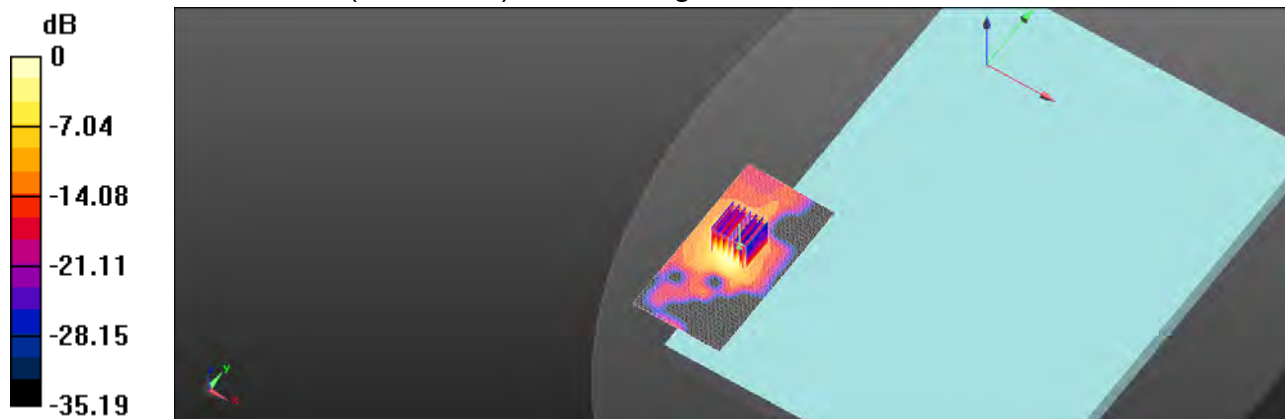
Peak SAR (extrapolated) = 2.99 W/kg

**SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.211 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 58.8%

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

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Date: 2022/5/7

Report No. :TESA2204000049EN

WLAN 802.11ac(80M) 5.8G\_Body\_Bottom Surface\_CH 155\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.311 \text{ S/m}$ ;  $\epsilon_r = 35.039$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.30 W/kg

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

Reference Value = 6.263 V/m; Power Drift = 0.02 dB

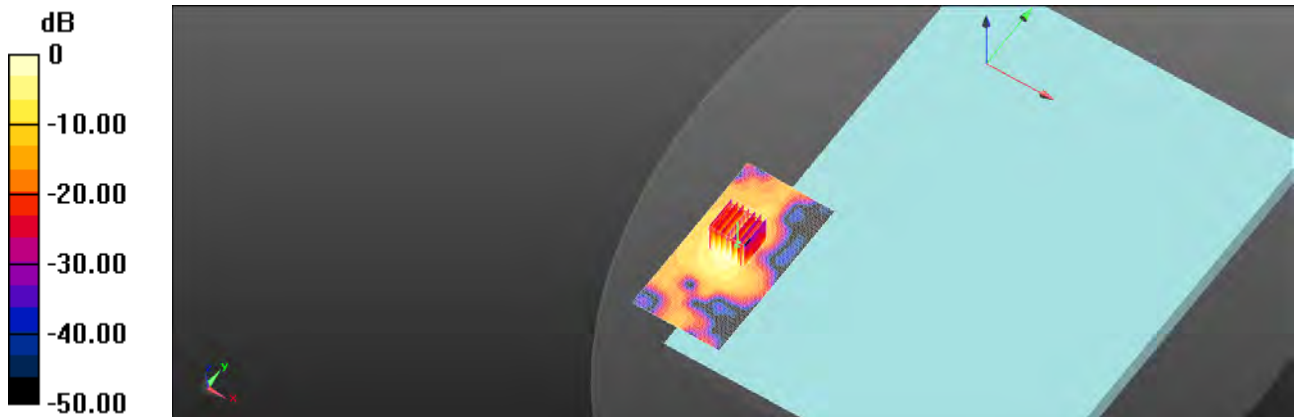
Peak SAR (extrapolated) = 4.23 W/kg

**SAR(1 g) = 0.933 W/kg; SAR(10 g) = 0.257 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.5 mm

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

Maximum value of SAR (measured) = 1.96 W/kg



0 dB = 1.96 W/kg = 2.92 dBW/kg

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Date: 2022/5/4

Report No.: TESA2204000049EN

WLAN 802.11b\_Body\_Bottom Surface\_CH 11\_0mm\_Aux

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.017

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.828$  S/m;  $\epsilon_r = 39.354$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2462 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.281 W/kg

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

Reference Value = 2.594 V/m; Power Drift = 0.02 dB

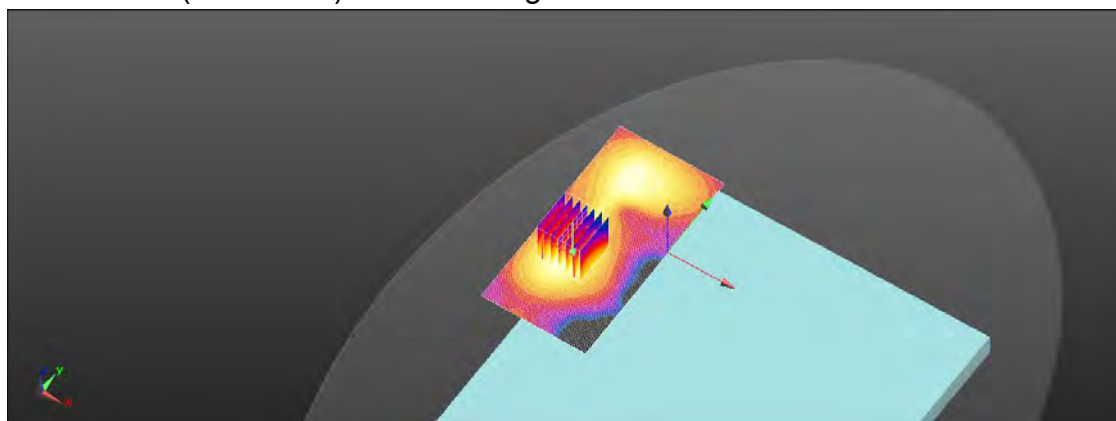
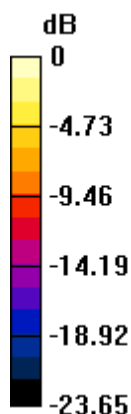
Peak SAR (extrapolated) = 0.362 W/kg

**SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.097 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 53.5%

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



0 dB = 0.274 W/kg = -5.62 dBW/kg

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Date: 2022/5/4

Report No. :TESA2204000049EN

Bluetooth(GFSK)\_Body\_Bottom Surface\_CH 78\_0mm\_Aux

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.335

Medium parameters used:  $f = 2480 \text{ MHz}$ ;  $\sigma = 1.847 \text{ S/m}$ ;  $\epsilon_r = 39.32$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2480 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0609 W/kg

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

Reference Value = 2.014 V/m; Power Drift = 0.18 dB

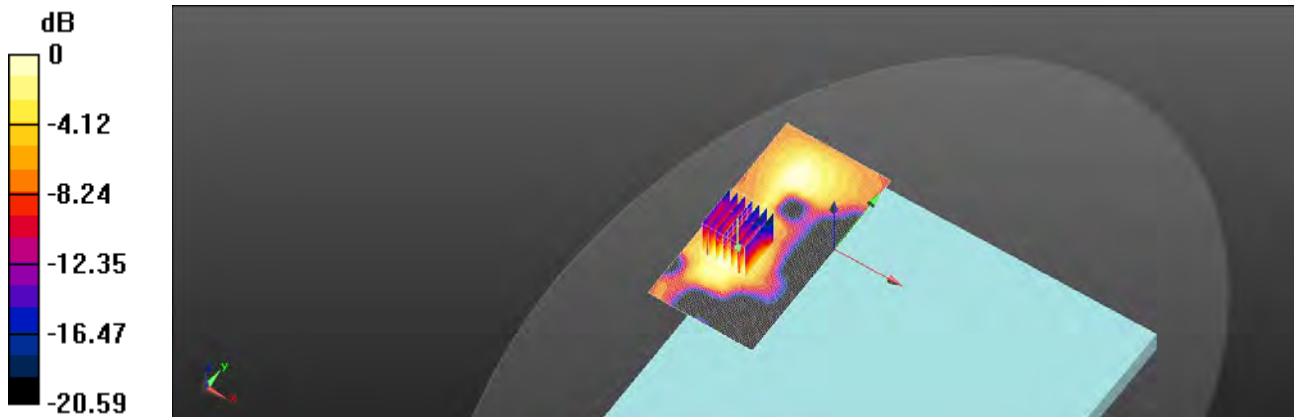
Peak SAR (extrapolated) = 0.0820 W/kg

**SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.022 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 = 53.5%

Maximum value of SAR (measured) = 0.0613 W/kg



0 dB = 0.0613 W/kg = -12.13 dBW/kg

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Date: 2022/5/5

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.2G\_Body\_Bottom Surface\_CH 42\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5210 \text{ MHz}$ ;  $\sigma = 4.642 \text{ S/m}$ ;  $\epsilon_r = 36.159$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5210 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.640 W/kg

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

Reference Value = 2.378 V/m; Power Drift = 0.04 dB

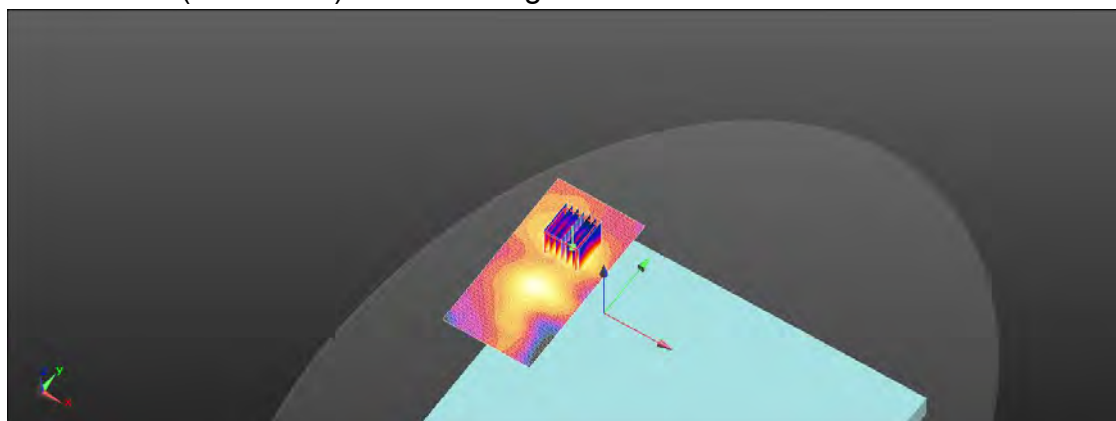
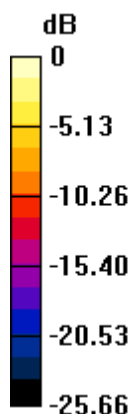
Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.116 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.3%

Maximum value of SAR (measured) = 0.620 W/kg



0 dB = 0.620 W/kg = -2.08 dBW/kg

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Date: 2022/5/5

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.3G\_Body\_Bottom Surface\_CH 58\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5290$  MHz;  $\sigma = 4.744$  S/m;  $\epsilon_r = 35.946$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.680 W/kg

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

Reference Value = 2.513 V/m; Power Drift = 0.07 dB

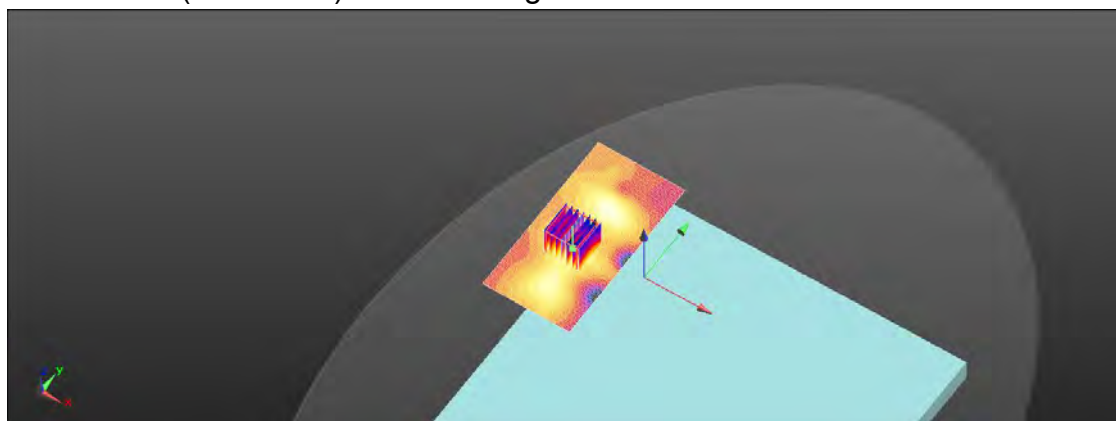
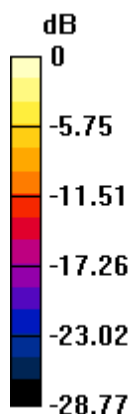
Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.111 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.4%

Maximum value of SAR (measured) = 0.666 W/kg



0 dB = 0.666 W/kg = -1.77 dBW/kg

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Date: 2022/5/6

Report No. :TESA2204000049EN

WLAN 802.11ac(80M) 5.6G\_Body\_Bottom Surface\_CH 138\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.215$  S/m;  $\epsilon_r = 35.334$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5690 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.651 W/kg

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

Reference Value = 2.638 V/m; Power Drift = 0.11 dB

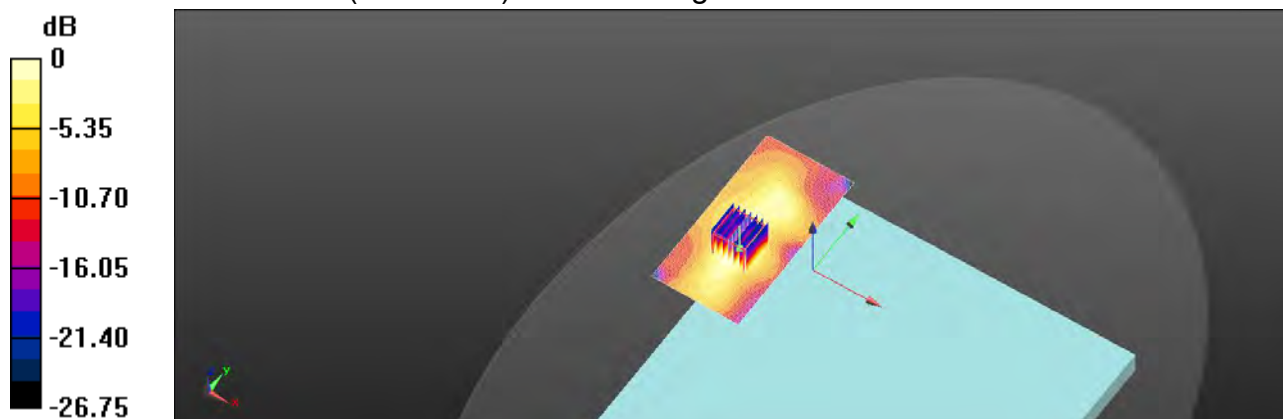
Peak SAR (extrapolated) = 1.36 W/kg

**SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.137 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 0.711 W/kg



0 dB = 0.711 W/kg = -1.48 dBW/kg

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Date: 2022/5/7

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.8G\_Body\_Bottom Surface\_CH 155\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.311$  S/m;  $\epsilon_r = 35.039$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.727 W/kg

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

Reference Value = 2.989 V/m; Power Drift = 0.06 dB

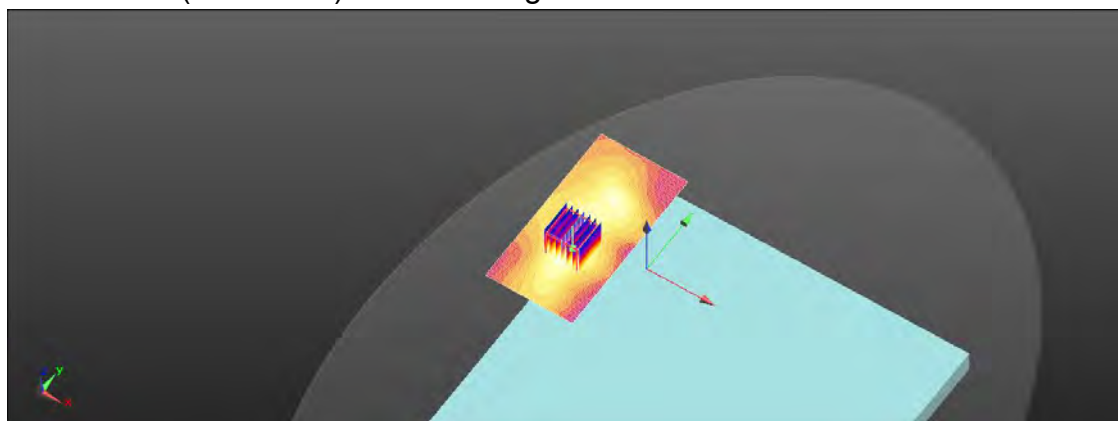
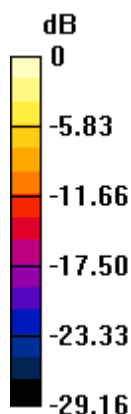
Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.147 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 0.776 W/kg



0 dB = 0.776 W/kg = -1.10 dBW/kg

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ID: 012

Report No.: TESA2302000095EN

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

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.02

Medium parameters used:  $f = 5815$  MHz;  $\sigma = 5.284$  S/m;  $\epsilon_r = 34.91$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.45, 5.45, 5.45) @ 5815 MHz; Calibrated: 2022/3/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2022/9/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.21 W/kg

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

Reference Value = 3.518 V/m; Power Drift = 0.04 dB

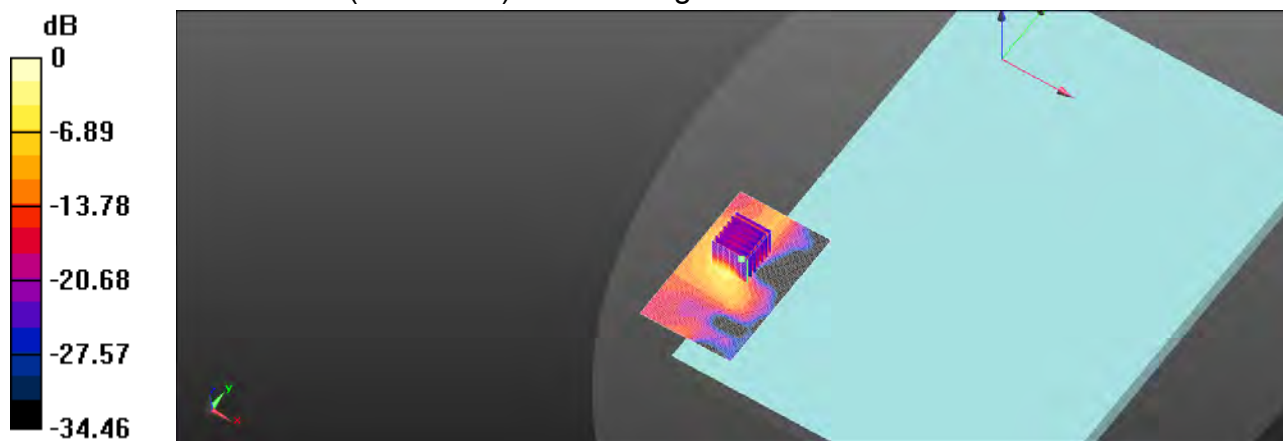
Peak SAR (extrapolated) = 3.71 W/kg

**SAR(1 g) = 0.871 W/kg; SAR(10 g) = 0.230 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.9 mm

Ratio of SAR at M2 to SAR at M1 = 60.8%

Maximum value of SAR (measured) = 1.84 W/kg



0 dB = 1.84 W/kg = 2.65 dBW/kg

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ID: 013

Report No.: TESA2302000095EN

WLAN 802.11ac(80M) 5.9G\_Body\_Bottom Surface\_CH 171\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5855 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5855 \text{ MHz}$ ;  $\sigma = 5.328 \text{ S/m}$ ;  $\epsilon_r = 34.661$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.45, 5.45, 5.45) @ 5855 MHz; Calibrated: 2022/3/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2022/9/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.20 W/kg

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

Reference Value = 3.578 V/m; Power Drift = 0.09 dB

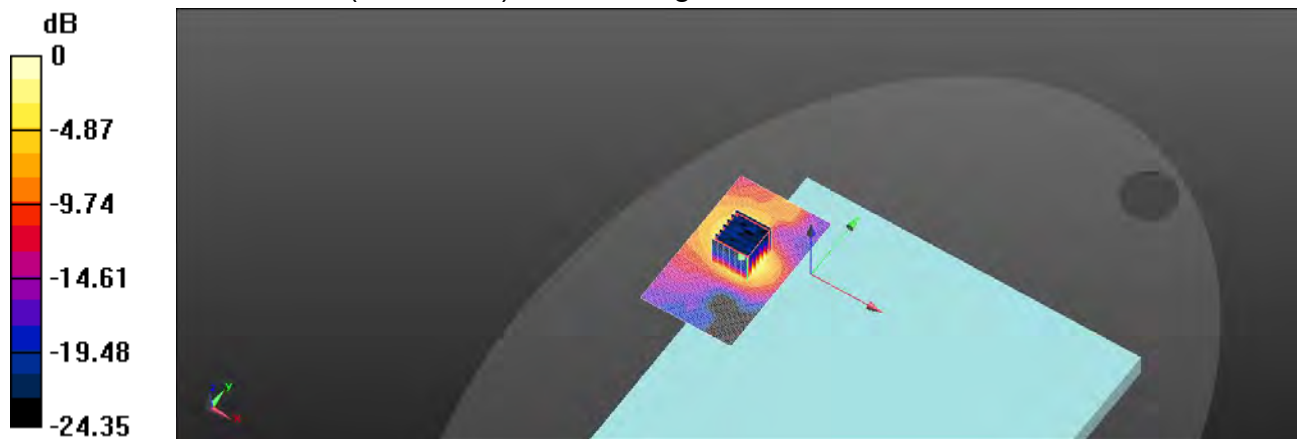
Peak SAR (extrapolated) = 2.62 W/kg

**SAR(1 g) = 0.602 W/kg; SAR(10 g) = 0.197 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 52.3%

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

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Date: 2022/5/4

Report No.: TESA2204000049EN

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

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.017

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.804 \text{ S/m}$ ;  $\epsilon_r = 39.394$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $21.9^\circ\text{C}$ ; Liquid temperature:  $21.6^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2437 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) =  $1.39 \text{ W/kg}$

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

Reference Value =  $6.724 \text{ V/m}$ ; Power Drift =  $0.07 \text{ dB}$

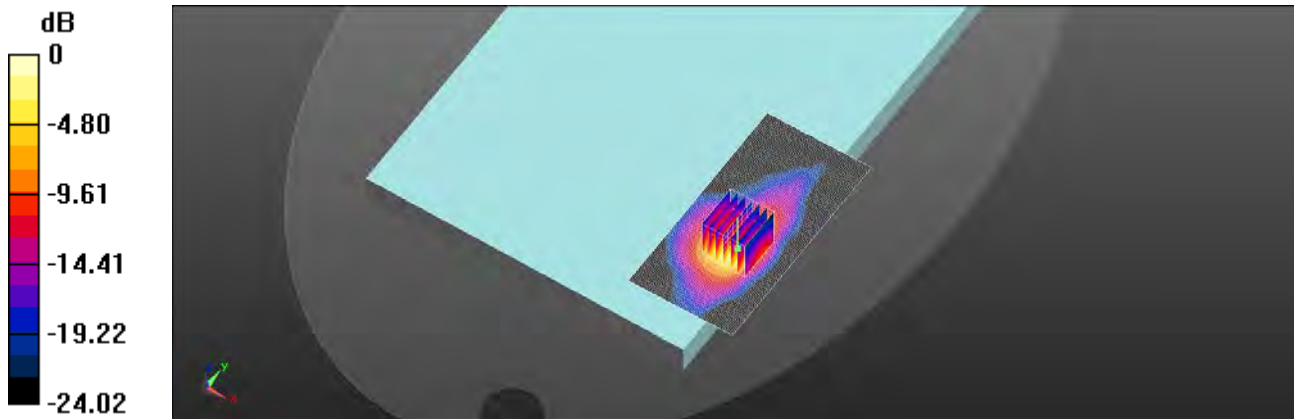
Peak SAR (extrapolated) =  $1.74 \text{ W/kg}$

**SAR(1 g) =  $0.852 \text{ W/kg}$ ; SAR(10 g) =  $0.374 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $8.9 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $51.2\%$

Maximum value of SAR (measured) =  $1.30 \text{ W/kg}$



0 dB =  $1.30 \text{ W/kg}$  =  $1.14 \text{ dBW/kg}$

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Date: 2022/5/5

Report No.: TESA2204000049EN

WLAN 802.11ac(160M) 5.2G\_Body\_Back Surface\_CH 50\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.687$  S/m;  $\epsilon_r = 36.073$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.704 W/kg

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

Reference Value = 3.006 V/m; Power Drift = 0.14 dB

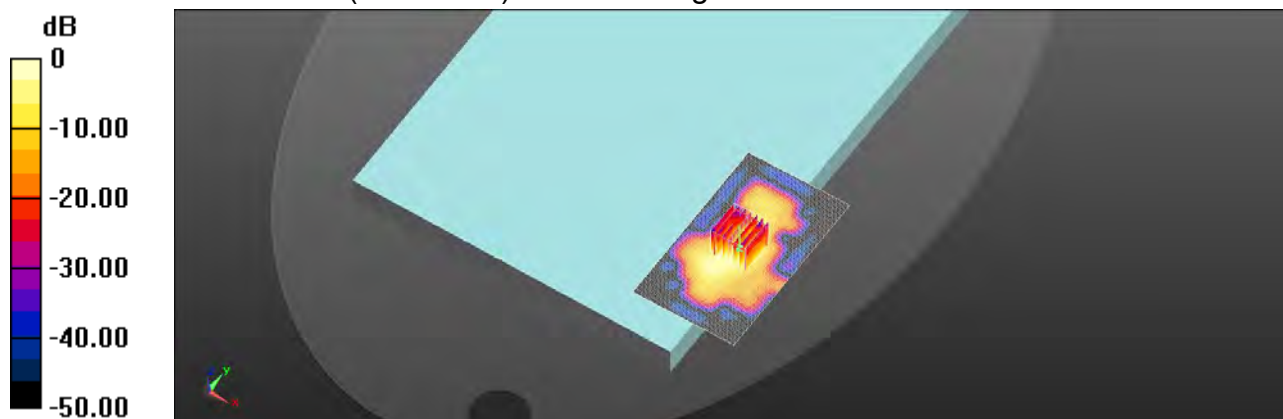
Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.107 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 60%

Maximum value of SAR (measured) = 0.844 W/kg



0 dB = 0.844 W/kg = -0.74 dBW/kg

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Date: 2022/5/5

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.3G\_Body\_Back Surface\_CH 58\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5290 \text{ MHz}$ ;  $\sigma = 4.744 \text{ S/m}$ ;  $\epsilon_r = 35.946$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.669 W/kg

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

Reference Value = 2.811 V/m; Power Drift = 0.16 dB

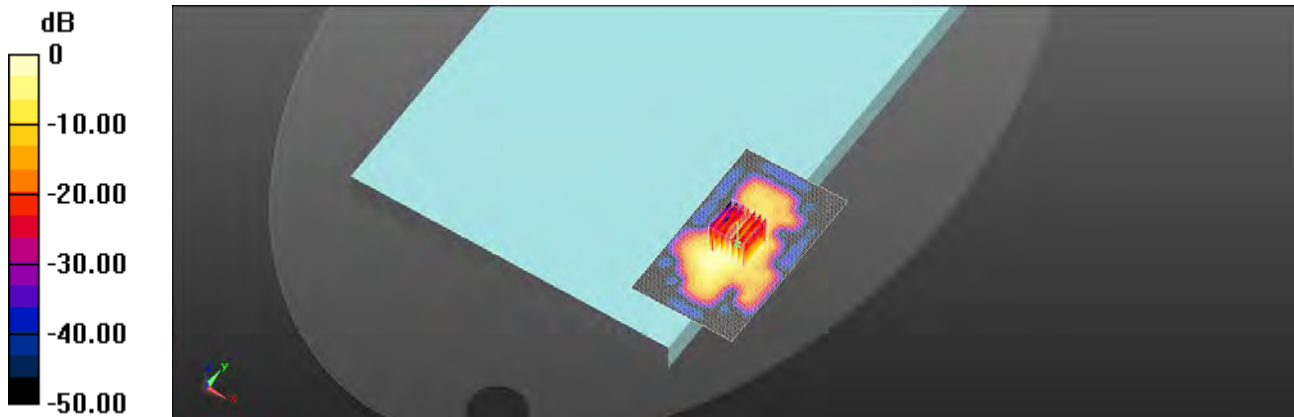
Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.379 W/kg; SAR(10 g) = 0.099 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%

Maximum value of SAR (measured) = 0.799 W/kg



0 dB = 0.799 W/kg = -0.97 dBW/kg

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Date: 2022/5/6

Report No. :TESA2204000049EN

WLAN 802.11ac(160M) 5.6G\_Body\_Back Surface\_CH 114\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5570 \text{ MHz}$ ;  $\sigma = 5.077 \text{ S/m}$ ;  $\epsilon_r = 35.594$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.42 W/kg

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

Reference Value = 5.226 V/m; Power Drift = 0.02 dB

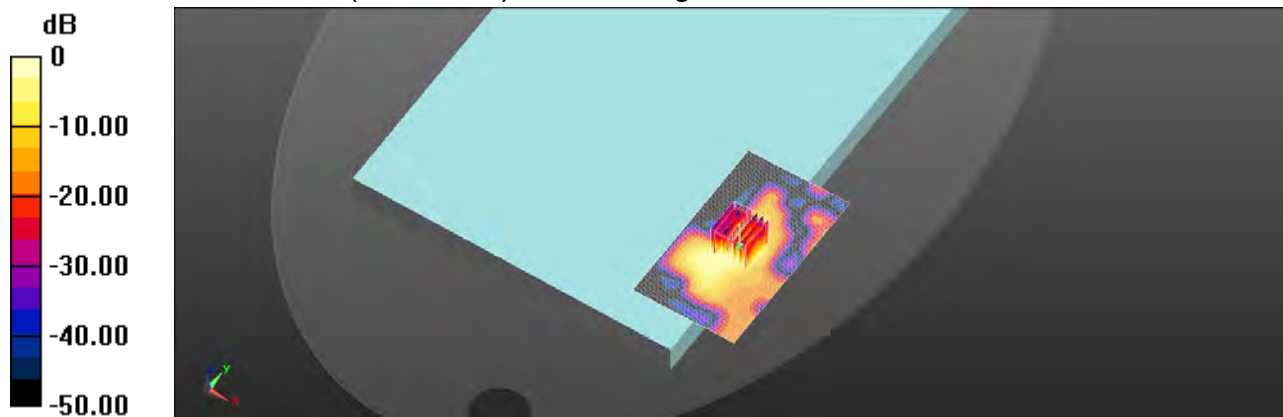
Peak SAR (extrapolated) = 2.75 W/kg

**SAR(1 g) = 0.546 W/kg; SAR(10 g) = 0.139 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 1.34 W/kg



0 dB = 1.34 W/kg = 1.27 dBW/kg

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Date: 2022/5/7

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.8G\_Body\_Back Surface\_CH 155\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.311 \text{ S/m}$ ;  $\epsilon_r = 35.039$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.12 W/kg

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

Reference Value = 4.769 V/m; Power Drift = 0.15 dB

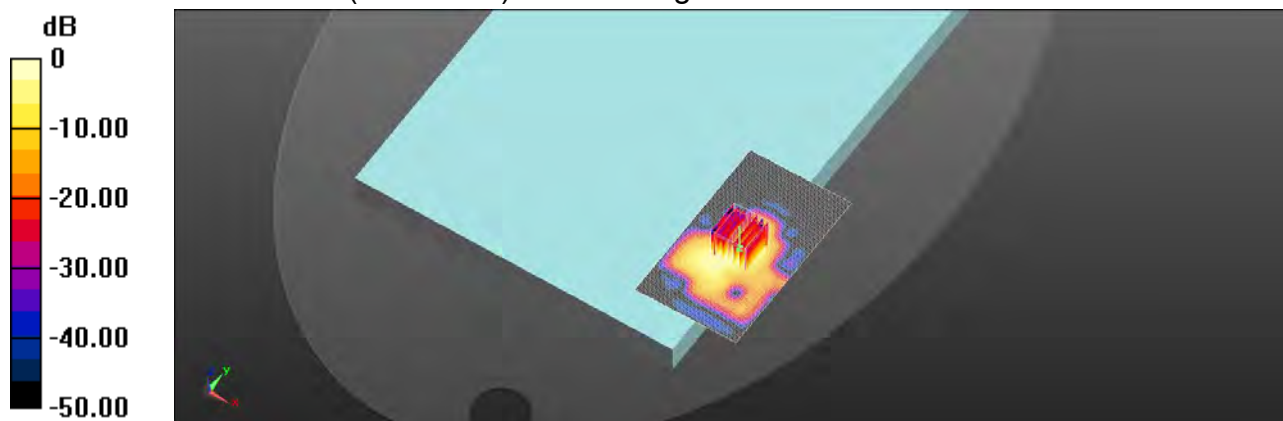
Peak SAR (extrapolated) = 2.50 W/kg

**SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.148 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.31 W/kg = 1.17 dBW/kg

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Date: 2022/5/4

Report No.: TESA2204000049EN

WLAN 802.11b\_Body\_Back Surface\_CH 11\_0mm\_Aux

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.017

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.828 \text{ S/m}$ ;  $\epsilon_r = 39.354$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2462 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.41 W/kg

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

Reference Value = 5.733 V/m; Power Drift = 0.03 dB

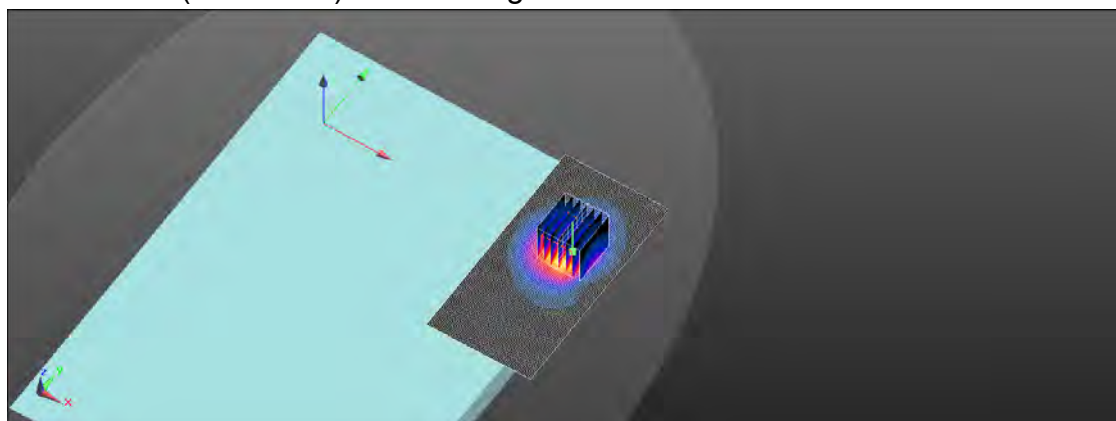
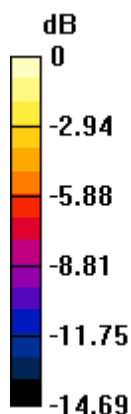
Peak SAR (extrapolated) = 1.66 W/kg

**SAR(1 g) = 0.765 W/kg; SAR(10 g) = 0.340 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

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Date: 2022/5/4

Report No.: TESA2204000049EN

Bluetooth(GFSK)\_Body\_Back Surface\_CH 78\_0mm\_Aux

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.335

Medium parameters used:  $f = 2480 \text{ MHz}$ ;  $\sigma = 1.847 \text{ S/m}$ ;  $\epsilon_r = 39.32$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2480 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.611 W/kg

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

Reference Value = 2.224 V/m; Power Drift = 0.13 dB

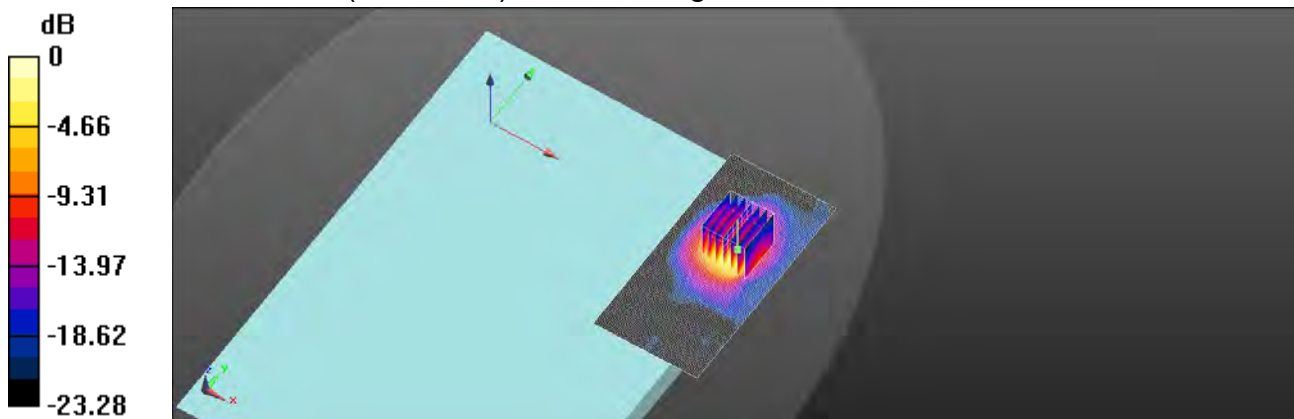
Peak SAR (extrapolated) = 0.781 W/kg

**SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.161 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 0.568 W/kg



0 dB = 0.568 W/kg = -2.46 dBW/kg

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Date: 2022/5/5

Report No. :TESA2204000049EN

WLAN 802.11ac(160M) 5.2G\_Body\_Back Surface\_CH 50\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.687$  S/m;  $\epsilon_r = 36.073$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.35 W/kg

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

Reference Value = 4.652 V/m; Power Drift = 0.08 dB

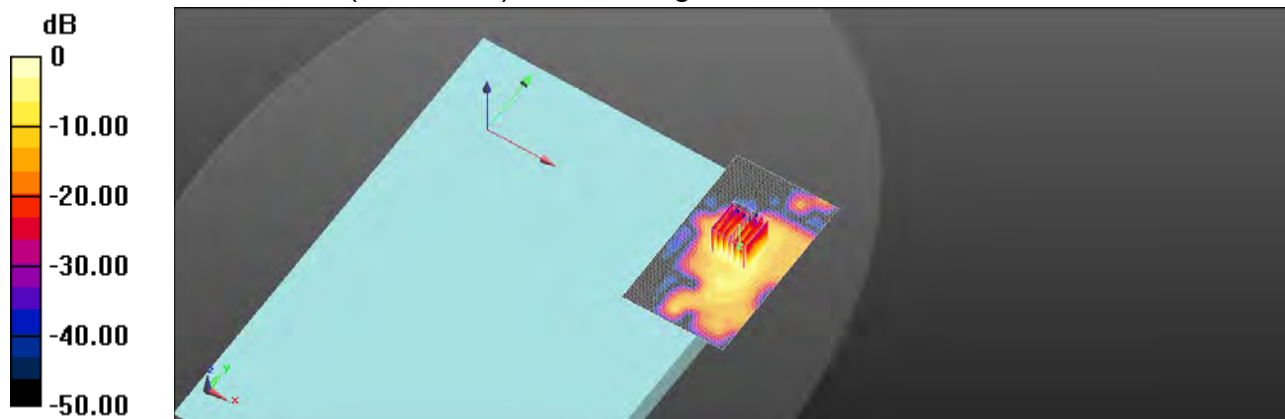
Peak SAR (extrapolated) = 2.47 W/kg

**SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.183 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 59.7%

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



0 dB = 1.37 W/kg = 1.37 dBW/kg

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Date: 2022/5/5

Report No. :TESA2204000049EN

WLAN 802.11ac(80M) 5.3G\_Body\_Back Surface\_CH 58\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5290 \text{ MHz}$ ;  $\sigma = 4.744 \text{ S/m}$ ;  $\epsilon_r = 35.946$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $22.0^\circ\text{C}$ ; Liquid temperature:  $21.7^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) =  $1.31 \text{ W/kg}$

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

Reference Value =  $4.189 \text{ V/m}$ ; Power Drift =  $0.08 \text{ dB}$

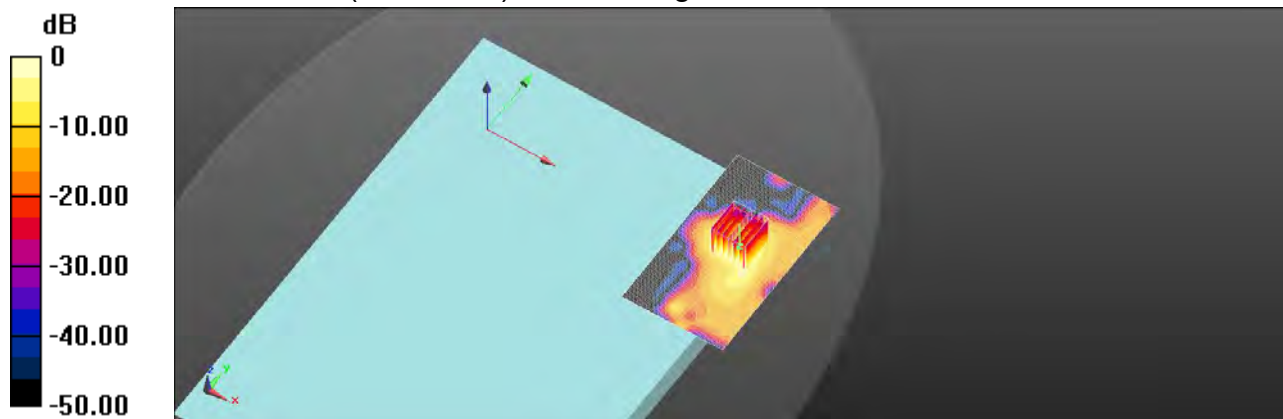
Peak SAR (extrapolated) =  $2.36 \text{ W/kg}$

**SAR(1 g) =  $0.622 \text{ W/kg}$ ; SAR(10 g) =  $0.175 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $6.4 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $59.9\%$

Maximum value of SAR (measured) =  $1.30 \text{ W/kg}$



$0 \text{ dB} = 1.30 \text{ W/kg} = 1.14 \text{ dBW/kg}$

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Date: 2022/5/6

Report No. :TESA2204000049EN

WLAN 802.11ac(160M) 5.6G\_Body\_Back Surface\_CH 114\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5570$  MHz;  $\sigma = 5.077$  S/m;  $\epsilon_r = 35.594$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.73 W/kg

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

Reference Value = 5.105 V/m; Power Drift = 0.08 dB

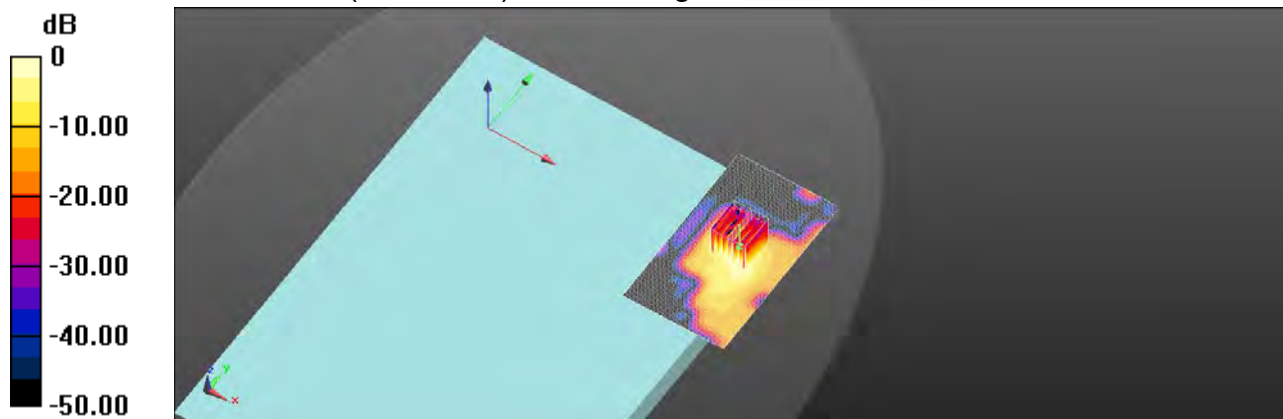
Peak SAR (extrapolated) = 3.00 W/kg

**SAR(1 g) = 0.721 W/kg; SAR(10 g) = 0.197 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg = 1.85 dBW/kg

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Date: 2022/5/7

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.8G\_Body\_Back Surface\_CH 155\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.311 \text{ S/m}$ ;  $\epsilon_r = 35.039$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.57 W/kg

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

Reference Value = 4.833 V/m; Power Drift = 0.12 dB

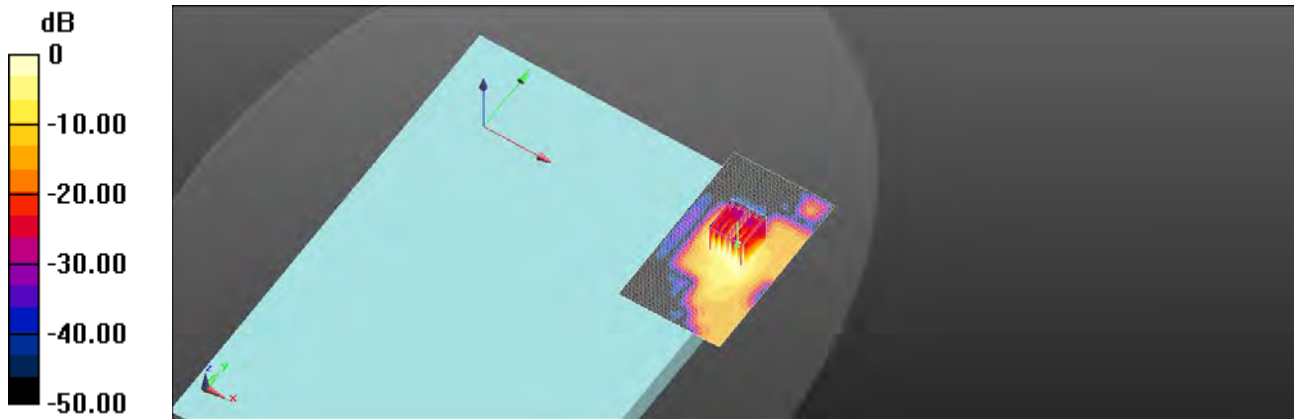
Peak SAR (extrapolated) = 2.75 W/kg

**SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.165 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 54.2%

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

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ID: 025

Report No.: TESA2302000095EN

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

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5815 \text{ MHz}$ ;  $\sigma = 5.284 \text{ S/m}$ ;  $\epsilon_r = 34.91$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.45, 5.45, 5.45) @ 5815 MHz; Calibrated: 2022/3/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2022/9/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$ 

Maximum value of SAR (interpolated) = 1.45 W/kg

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

Reference Value = 3.598 V/m; Power Drift = 0.10 dB

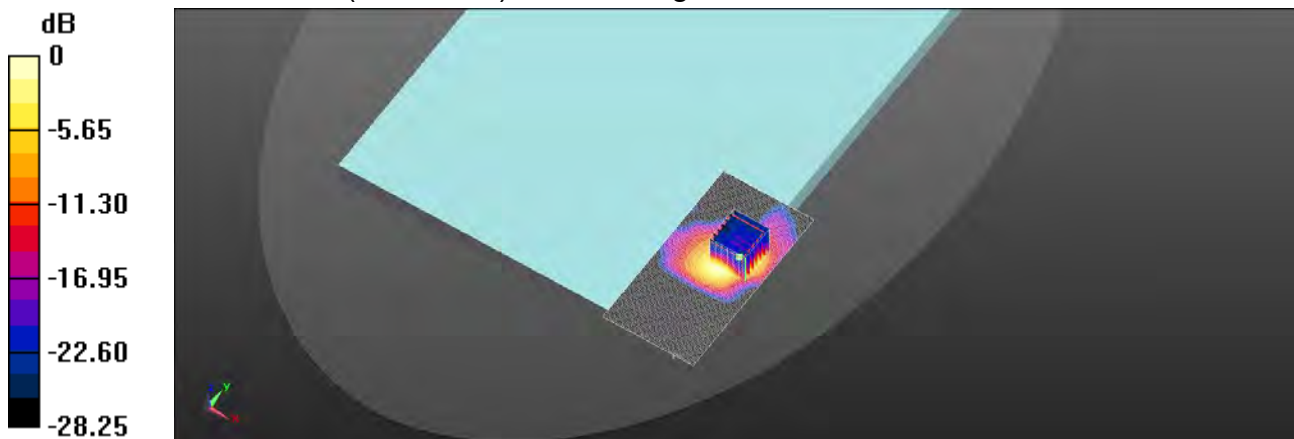
Peak SAR (extrapolated) = 2.88 W/kg

**SAR(1 g) = 0.761 W/kg; SAR(10 g) = 0.222 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 1.71 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

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ID: 026

Report No.: TESA2302000095EN

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

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5815 \text{ MHz}$ ;  $\sigma = 5.284 \text{ S/m}$ ;  $\epsilon_r = 34.91$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.45, 5.45, 5.45) @ 5815 MHz; Calibrated: 2022/3/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2022/9/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.85 W/kg

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

Reference Value = 3.121 V/m; Power Drift = -0.08 dB

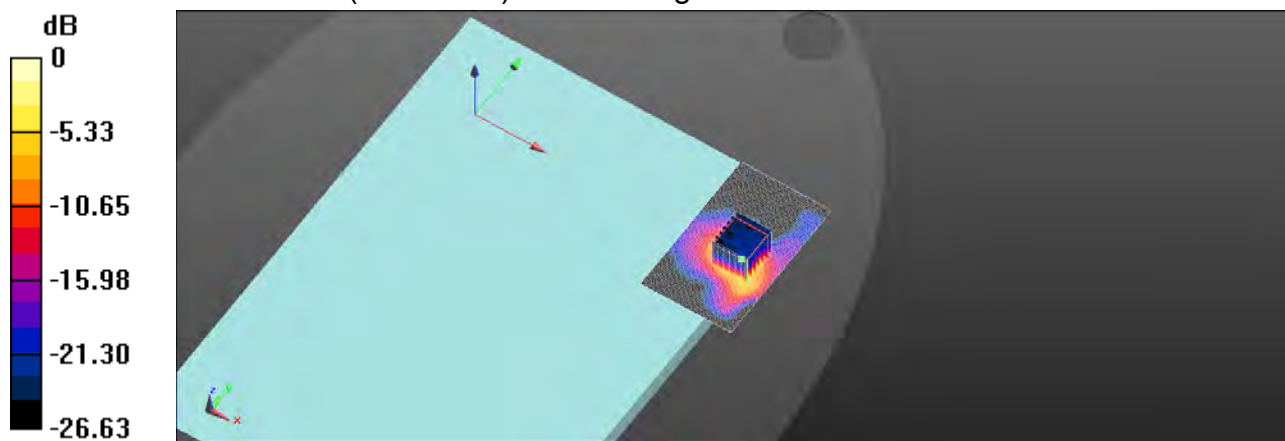
Peak SAR (extrapolated) = 3.43 W/kg

**SAR(1 g) = 0.764 W/kg; SAR(10 g) = 0.216 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 52.3%

Maximum value of SAR (measured) = 1.64 W/kg



0 dB = 1.64 W/kg = 2.15 dBW/kg

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Date: 2022/5/4

Report No.: TESA2204000049EN

WLAN 802.11b\_Body\_Bottom Surface\_CH 11\_0mm\_Main

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.017

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.828$  S/m;  $\epsilon_r = 39.354$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2462 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.684 W/kg

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

Reference Value = 2.671 V/m; Power Drift = 0.06 dB

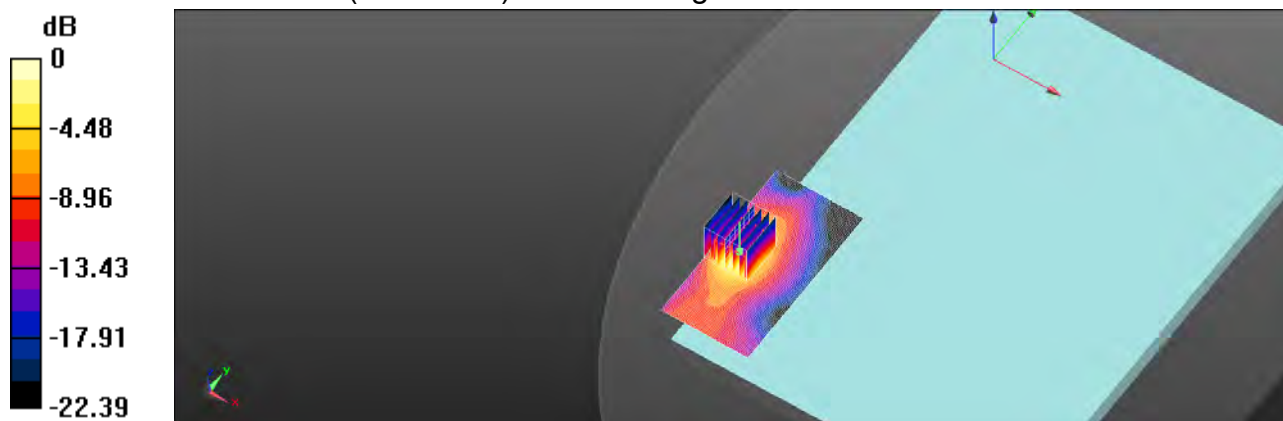
Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.168 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 39.9%

Maximum value of SAR (measured) = 0.661 W/kg



0 dB = 0.661 W/kg = -1.80 dBW/kg

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Date: 2022/5/5

Report No. :TESA2204000049EN

WLAN 802.11ac(160M) 5.2G\_Body\_Bottom Surface\_CH 50\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.687 \text{ S/m}$ ;  $\epsilon_r = 36.073$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.700 W/kg

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

Reference Value = 3.274 V/m; Power Drift = 0.15 dB

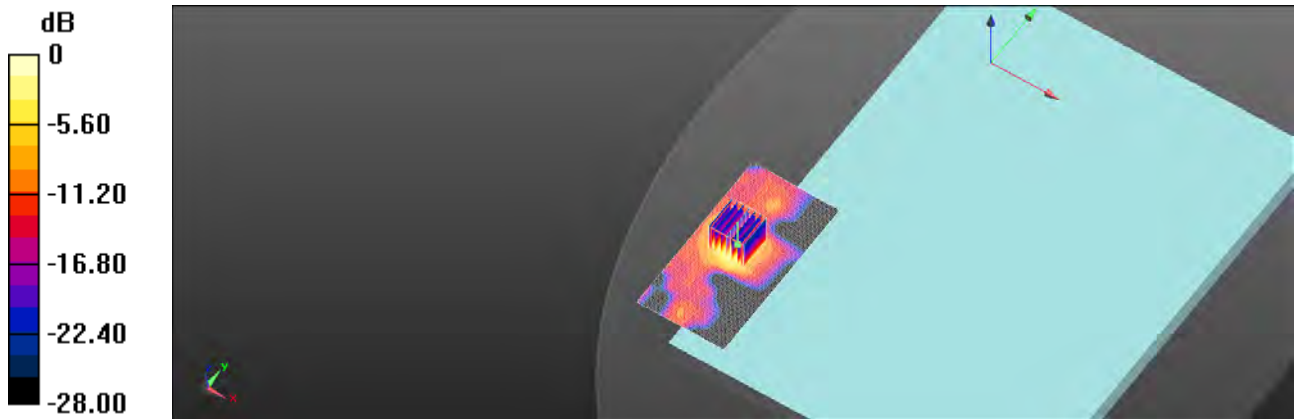
Peak SAR (extrapolated) = 1.90 W/kg

**SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.141 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 0.991 W/kg



0 dB = 0.991 W/kg = -0.04 dBW/kg

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Date: 2022/5/5

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.3G\_Body\_Bottom Surface\_CH 58\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5290$  MHz;  $\sigma = 4.744$  S/m;  $\epsilon_r = 35.946$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.755 W/kg

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

Reference Value = 3.788 V/m; Power Drift = 0.11 dB

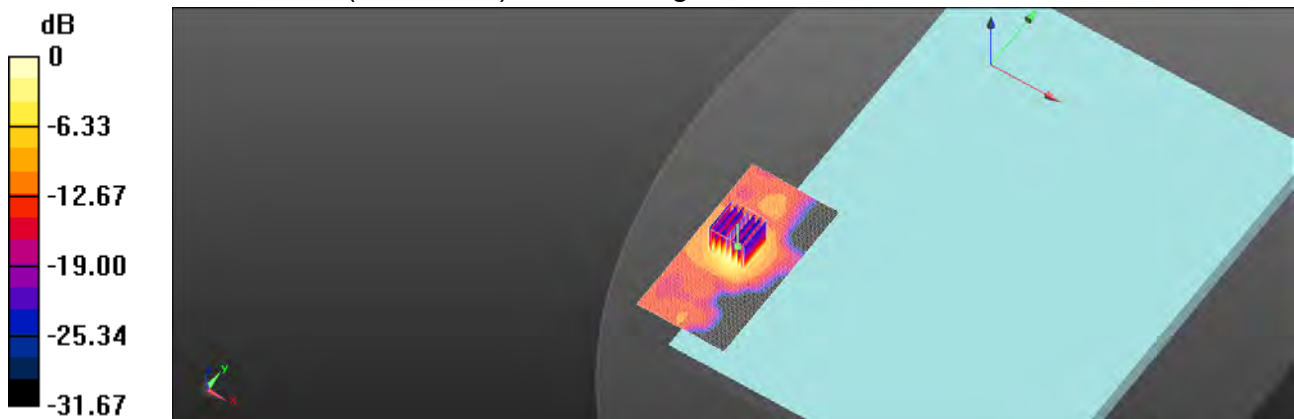
Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.147 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

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Date: 2022/5/6

Report No. :TESA2204000049EN

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

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5570$  MHz;  $\sigma = 5.077$  S/m;  $\epsilon_r = 35.594$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 5.272 V/m; Power Drift = 0.07 dB

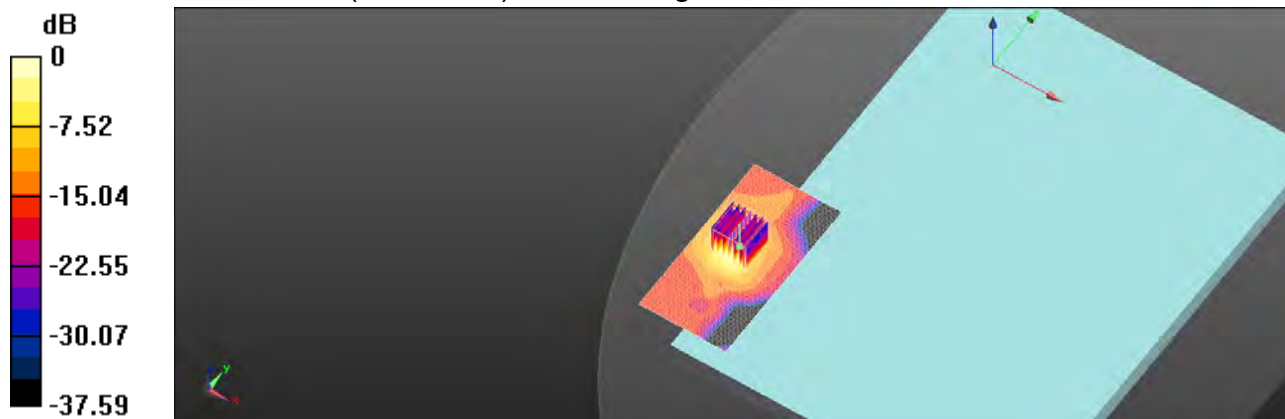
Peak SAR (extrapolated) = 2.95 W/kg

**SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.187 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 55.9%

Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.46 dBW/kg

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Date: 2022/5/7

Report No. :TESA2204000049EN

WLAN 802.11ac(80M) 5.8G\_Body\_Bottom Surface\_CH 155\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.311 \text{ S/m}$ ;  $\epsilon_r = 35.039$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.26 W/kg

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

Reference Value = 6.207 V/m; Power Drift = 0.06 dB

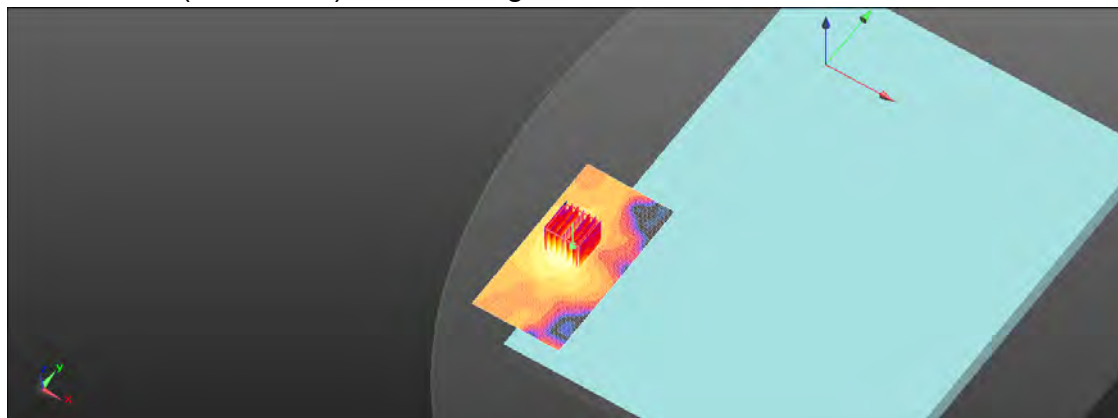
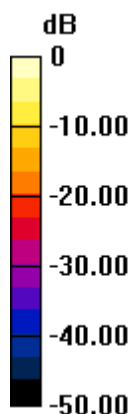
Peak SAR (extrapolated) = 4.03 W/kg

**SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.209 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 53.8%

Maximum value of SAR (measured) = 1.71 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

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Date: 2022/5/4

Report No.: TESA2204000049EN

WLAN 802.11b\_Body\_Bottom Surface\_CH 11\_0mm\_Aux

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.017

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.828 \text{ S/m}$ ;  $\epsilon_r = 39.354$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $21.9^\circ\text{C}$ ; Liquid temperature:  $21.6^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2462 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.261 \text{ W/kg}$

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

Reference Value =  $2.511 \text{ V/m}$ ; Power Drift =  $0.17 \text{ dB}$

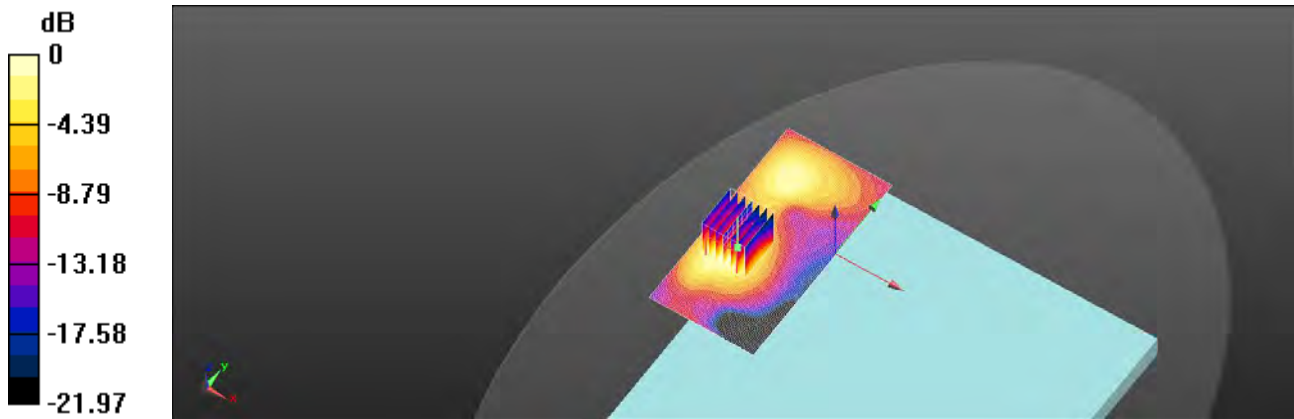
Peak SAR (extrapolated) =  $0.339 \text{ W/kg}$

**SAR(1 g) =  $0.167 \text{ W/kg}$ ; SAR(10 g) =  $0.082 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $11 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $49.4\%$

Maximum value of SAR (measured) =  $0.249 \text{ W/kg}$



0 dB =  $0.249 \text{ W/kg}$  =  $-6.04 \text{ dBW/kg}$

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Date: 2022/5/4

Report No. :TESA2204000049EN

Bluetooth(GFSK)\_Body\_Bottom Surface\_CH 78\_0mm\_Aux

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.335

Medium parameters used:  $f = 2480 \text{ MHz}$ ;  $\sigma = 1.847 \text{ S/m}$ ;  $\epsilon_r = 39.32$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2480 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0682 W/kg

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

Reference Value = 2.157 V/m; Power Drift = 0.17 dB

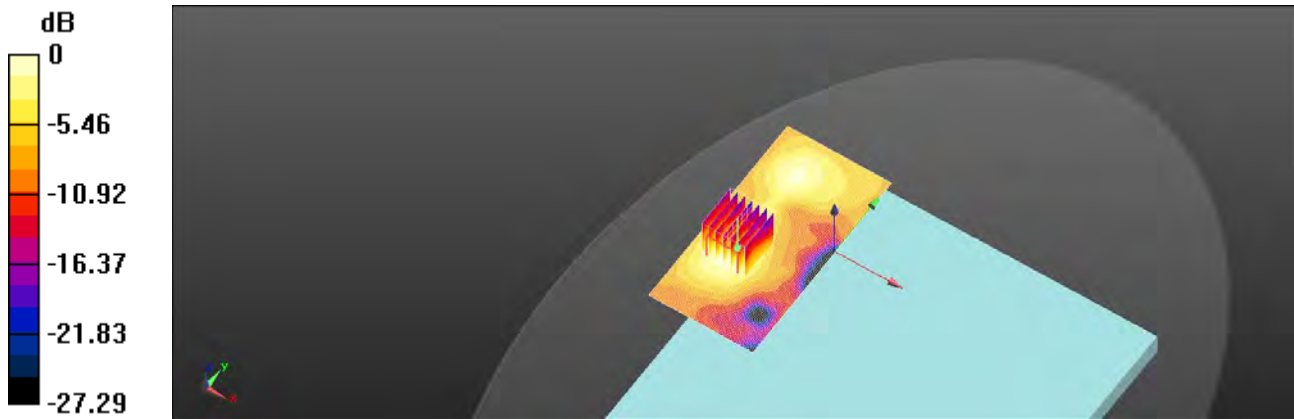
Peak SAR (extrapolated) = 0.0860 W/kg

**SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.023 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 = 51%

Maximum value of SAR (measured) = 0.0648 W/kg



0 dB = 0.0648 W/kg = -11.88 dBW/kg

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Date: 2022/5/5

Report No. :TESA2204000049EN

WLAN 802.11ac(80M) 5.2G\_Body\_Bottom Surface\_CH 42\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5210 \text{ MHz}$ ;  $\sigma = 4.642 \text{ S/m}$ ;  $\epsilon_r = 36.159$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5210 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.737 W/kg

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

Reference Value = 3.266 V/m; Power Drift = 0.17 dB

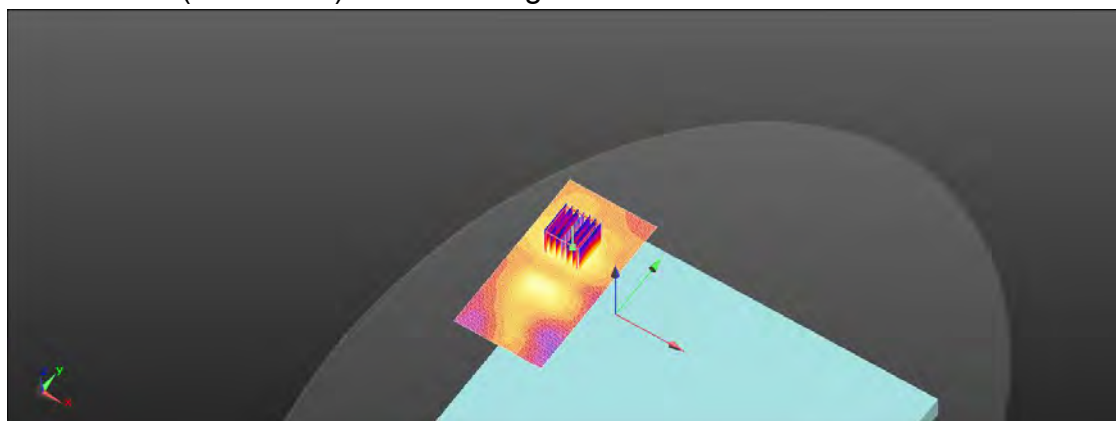
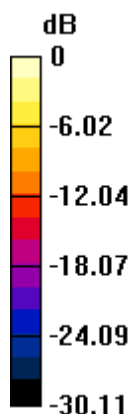
Peak SAR (extrapolated) = 1.38 W/kg

**SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.135 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 58%

Maximum value of SAR (measured) = 0.740 W/kg



0 dB = 0.740 W/kg = -1.31 dBW/kg

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Date: 2022/5/5

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.3G\_Body\_Bottom Surface\_CH 58\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5290 \text{ MHz}$ ;  $\sigma = 4.744 \text{ S/m}$ ;  $\epsilon_r = 35.946$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.716 W/kg

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

Reference Value = 2.729 V/m; Power Drift = 0.12 dB

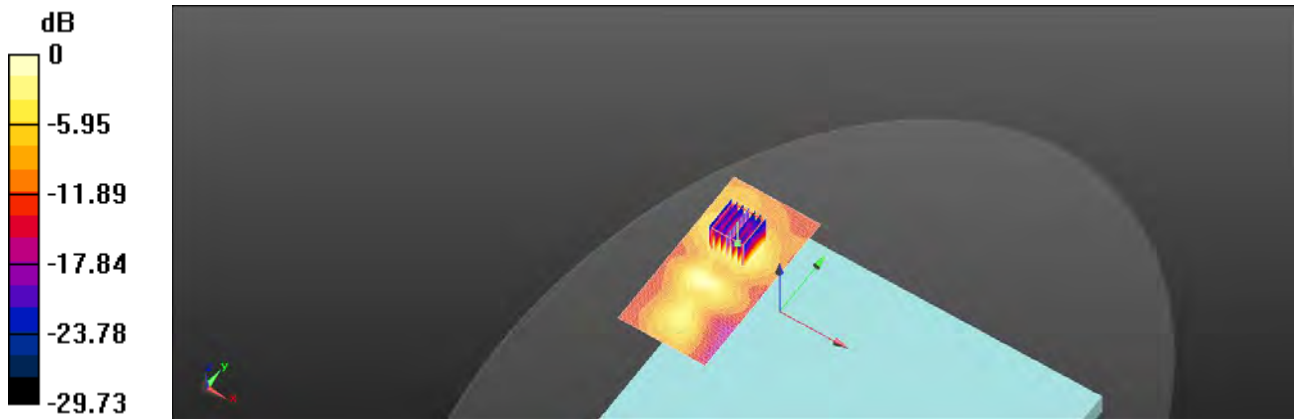
Peak SAR (extrapolated) = 1.36 W/kg

**SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.127 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) = 0.710 W/kg



0 dB = 0.710 W/kg = -1.49 dBW/kg

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Date: 2022/5/6

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.6G\_Body\_Bottom Surface\_CH 138\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.215$  S/m;  $\epsilon_r = 35.334$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5690 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.525 W/kg

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

Reference Value = 2.246 V/m; Power Drift = 0.08 dB

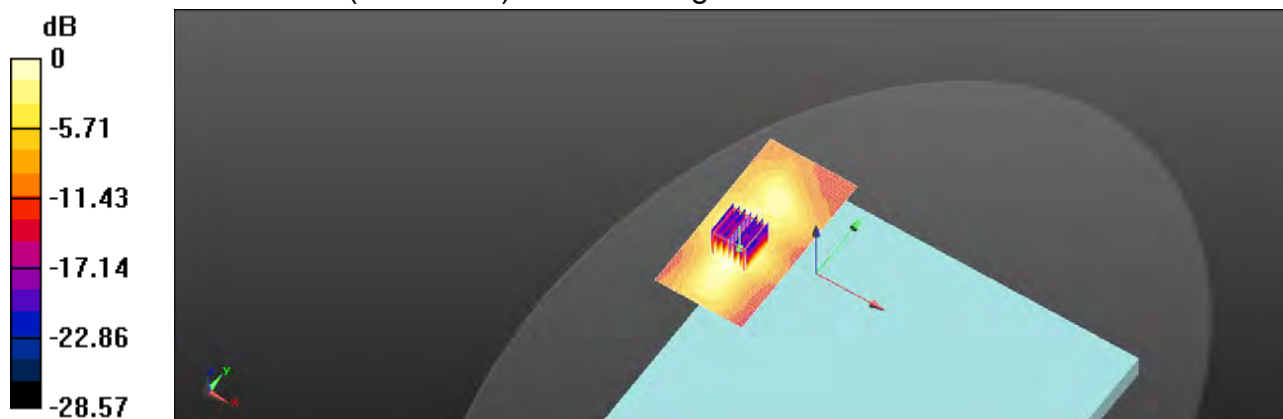
Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.114 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 54%

Maximum value of SAR (measured) = 0.579 W/kg



0 dB = 0.579 W/kg = -2.37 dBW/kg

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Date: 2022/5/7

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.8G\_Body\_Bottom Surface\_CH 155\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.311 \text{ S/m}$ ;  $\epsilon_r = 35.039$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.543 W/kg

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

Reference Value = 2.553 V/m; Power Drift = 0.12 dB

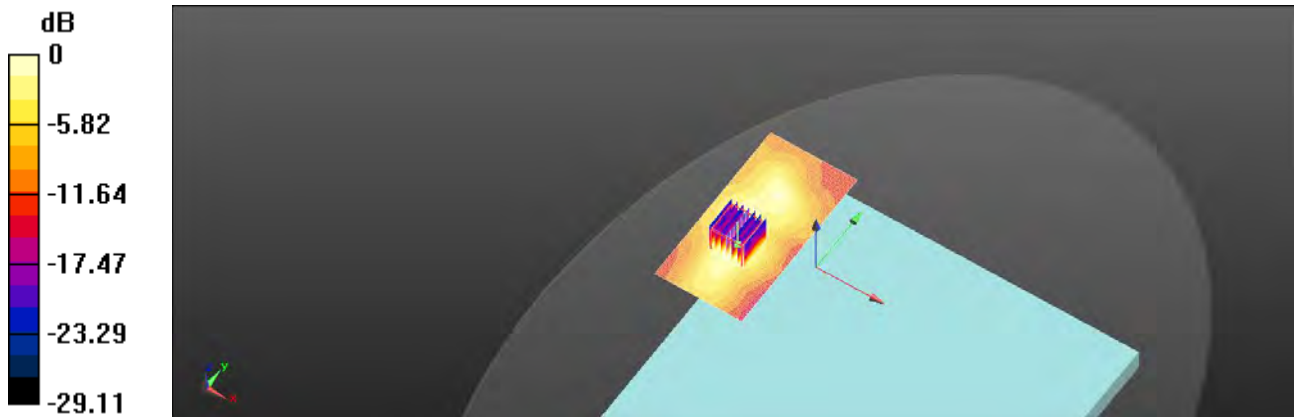
Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.118 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 0.619 W/kg



0 dB = 0.619 W/kg = -2.08 dBW/kg

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ID: 038

Report No.: TESA2302000095EN

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

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.02

Medium parameters used:  $f = 5815 \text{ MHz}$ ;  $\sigma = 5.284 \text{ S/m}$ ;  $\epsilon_r = 34.91$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.45, 5.45, 5.45) @ 5815 MHz; Calibrated: 2022/3/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2022/9/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.78 W/kg

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

Reference Value = 3.489 V/m; Power Drift = 0.10 dB

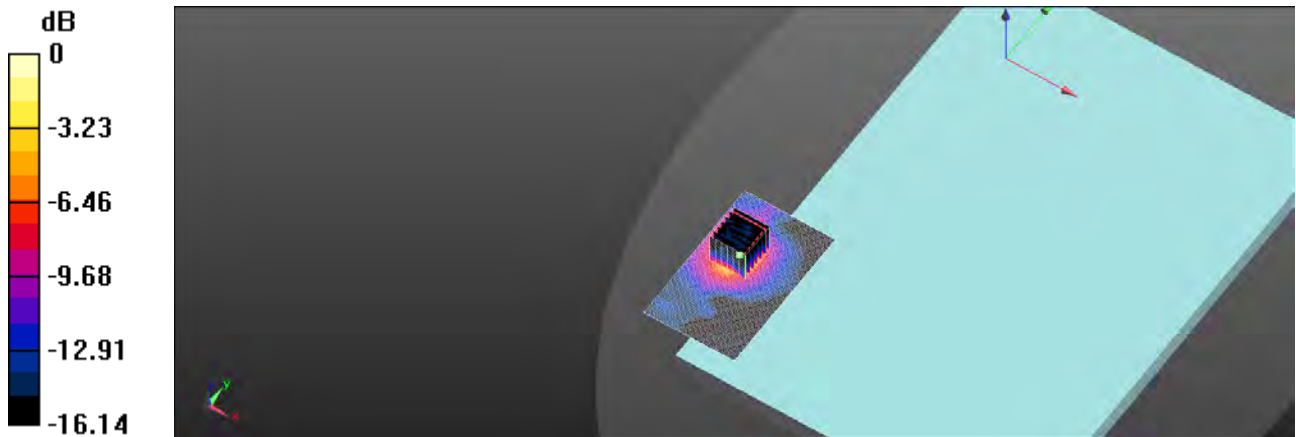
Peak SAR (extrapolated) = 4.25 W/kg

**SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.353 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.1 mm

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

Maximum value of SAR (measured) = 2.32 W/kg



0 dB = 2.32 W/kg = 3.65 dBW/kg

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ID: 039

Report No.: TESA2302000095EN

WLAN 802.11ac(80M) 5.9G\_Body\_Bottom Surface\_CH 171\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5855 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5855$  MHz;  $\sigma = 5.328$  S/m;  $\epsilon_r = 34.661$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.45, 5.45, 5.45) @ 5855 MHz; Calibrated: 2022/3/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2022/9/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.82 W/kg

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

Reference Value = 3.598 V/m; Power Drift = 0.08 dB

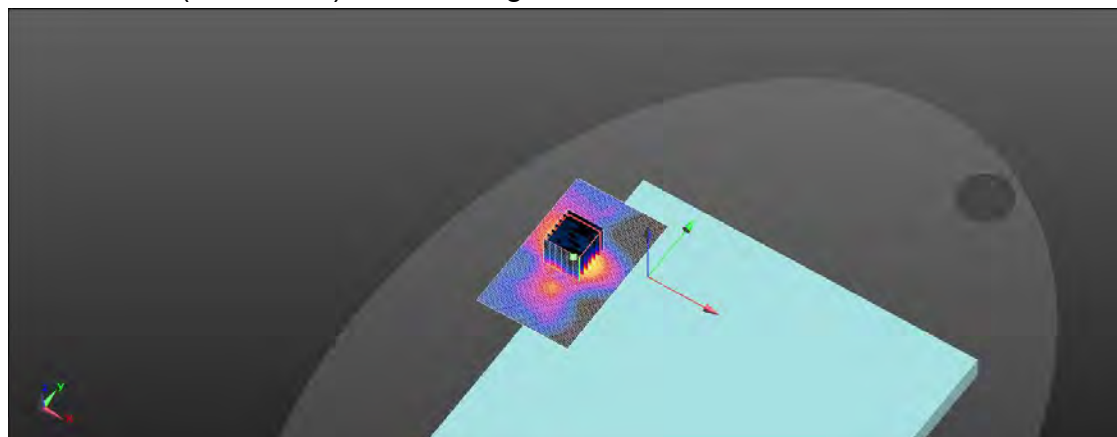
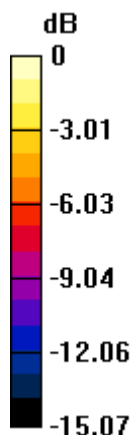
Peak SAR (extrapolated) = 3.54 W/kg

**SAR(1 g) = 0.860 W/kg; SAR(10 g) = 0.315 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 53.7%

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



0 dB = 1.68 W/kg = 2.25 dBW/kg

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Date: 2022/5/4

Report No.: TESA2204000049EN

WLAN 802.11b\_Body\_Back Surface\_CH 11\_0mm\_Main

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.017

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.828 \text{ S/m}$ ;  $\epsilon_r = 39.354$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2462 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.47 W/kg

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

Reference Value = 6.816 V/m; Power Drift = 0.06 dB

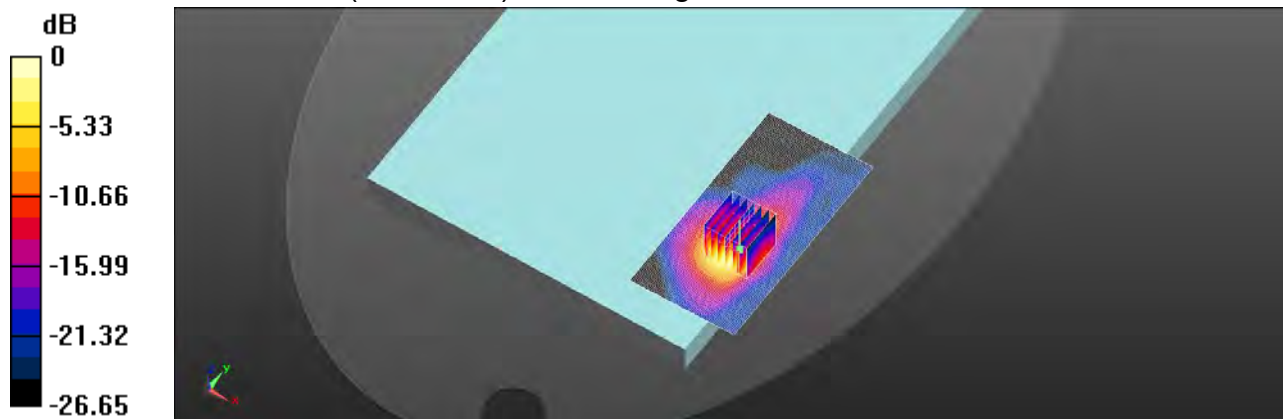
Peak SAR (extrapolated) = 1.99 W/kg

**SAR(1 g) = 0.887 W/kg; SAR(10 g) = 0.366 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 46.7%

Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

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Date: 2022/5/5

Report No. :TESA2204000049EN

WLAN 802.11ac(160M) 5.2G\_Body\_Back Surface\_CH 50\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.687 \text{ S/m}$ ;  $\epsilon_r = 36.073$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.581 W/kg

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

Reference Value = 2.531 V/m; Power Drift = 0.14 dB

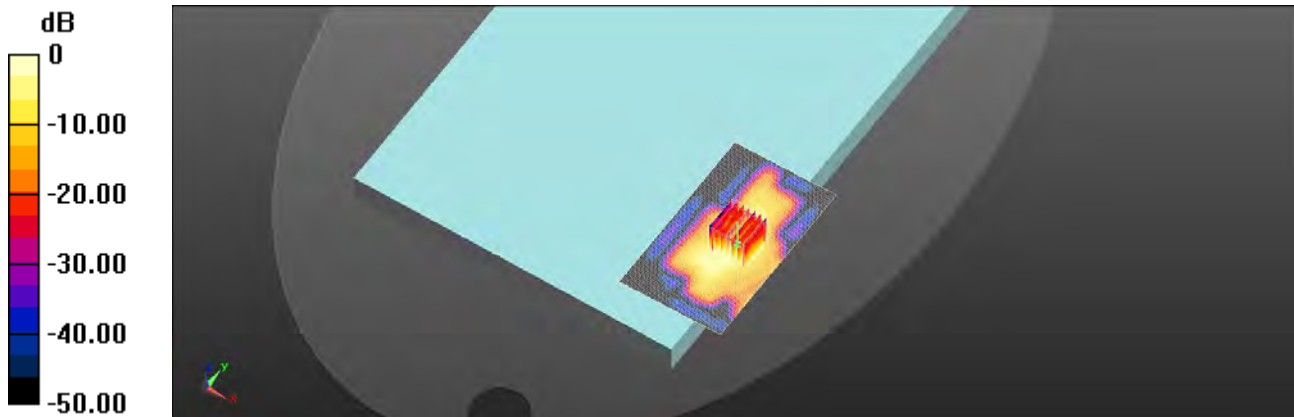
Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.084 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.9 mm

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

Maximum value of SAR (measured) = 0.658 W/kg



0 dB = 0.658 W/kg = -1.82 dBW/kg

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Date: 2022/5/5

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.3G\_Body\_Back Surface\_CH 58\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5290$  MHz;  $\sigma = 4.744$  S/m;  $\epsilon_r = 35.946$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.640 W/kg

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

Reference Value = 2.638 V/m; Power Drift = 0.11 dB

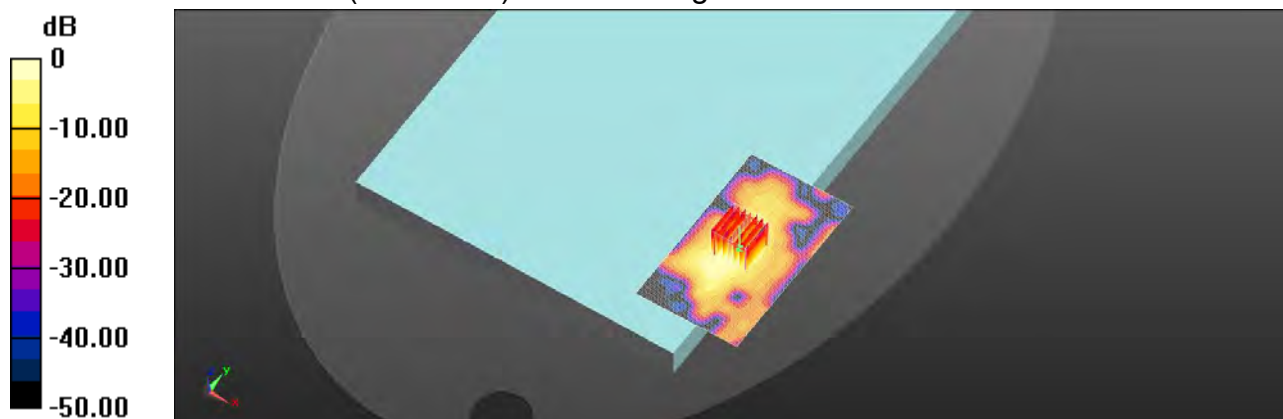
Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.095 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 0.727 W/kg



0 dB = 0.727 W/kg = -1.38 dBW/kg

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Date: 2022/5/6

Report No. :TESA2204000049EN

WLAN 802.11ac(160M) 5.6G\_Body\_Back Surface\_CH 114\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5570$  MHz;  $\sigma = 5.077$  S/m;  $\epsilon_r = 35.594$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.932 W/kg

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

Reference Value = 3.975 V/m; Power Drift = 0.10 dB

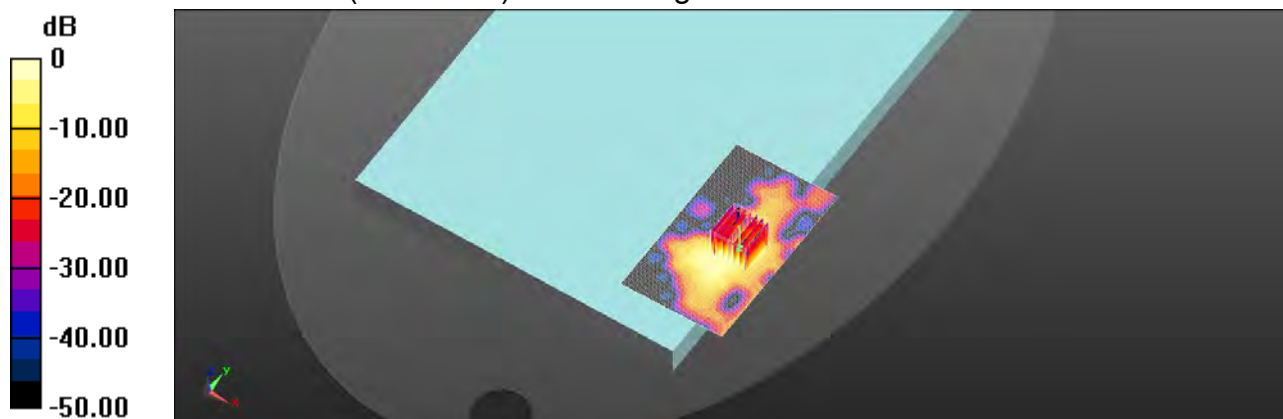
Peak SAR (extrapolated) = 2.25 W/kg

**SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.117 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

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Date: 2022/5/7

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.8G\_Body\_Back Surface\_CH 155\_0mm\_Main

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.311 \text{ S/m}$ ;  $\epsilon_r = 35.039$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.915 W/kg

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

Reference Value = 3.742 V/m; Power Drift = 0.09 dB

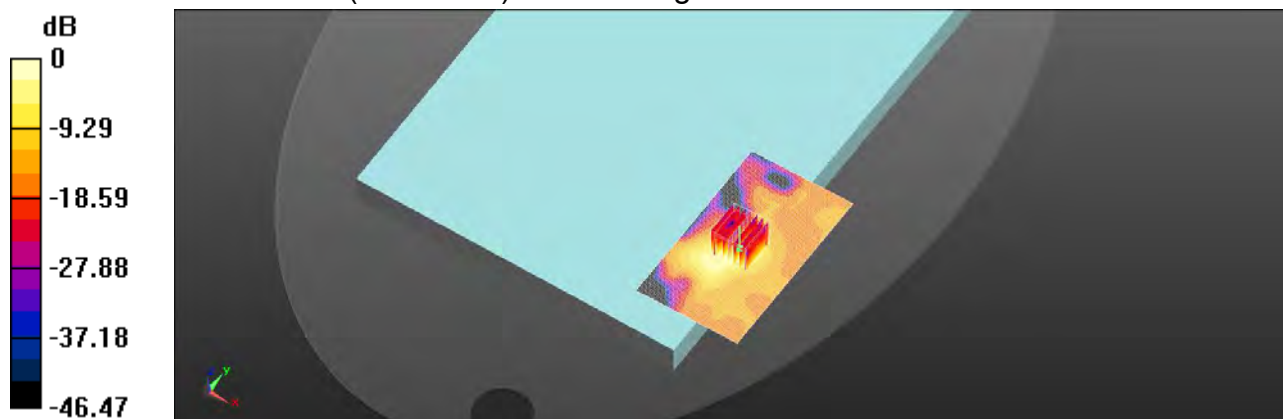
Peak SAR (extrapolated) = 2.24 W/kg

**SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.120 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

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Report No. :TESA2204000049EN

WLAN 802.11b\_Body\_Back Surface\_CH 11\_0mm\_Aux

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.017

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.828 \text{ S/m}$ ;  $\epsilon_r = 39.354$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2462 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.18 W/kg

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

Reference Value = 5.662 V/m; Power Drift = 0.08 dB

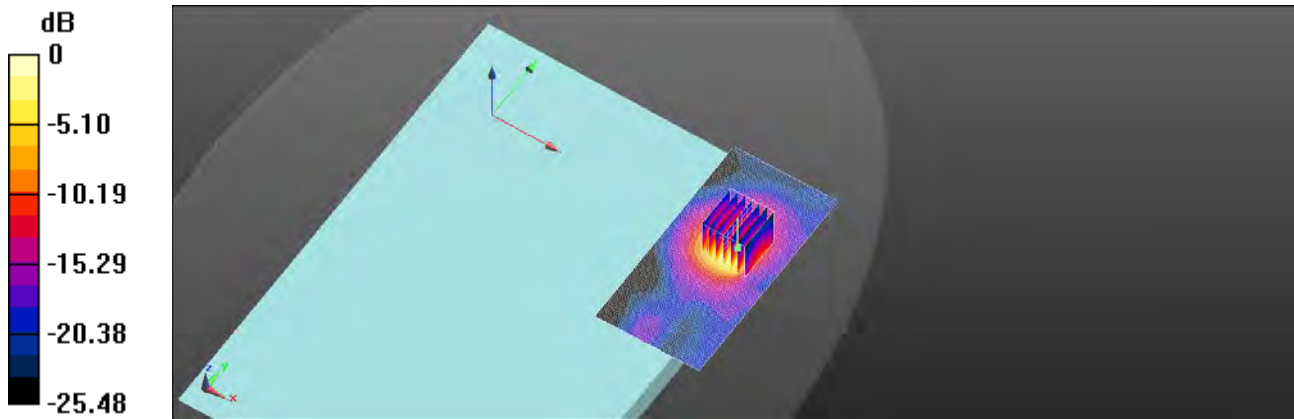
Peak SAR (extrapolated) = 1.58 W/kg

**SAR(1 g) = 0.714 W/kg; SAR(10 g) = 0.298 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 48.6%

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2022/5/4

Report No. :TESA2204000049EN

Bluetooth(GFSK)\_Body\_Back Surface\_CH 78\_0mm\_Aux

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.335

Medium parameters used:  $f = 2480 \text{ MHz}$ ;  $\sigma = 1.847 \text{ S/m}$ ;  $\epsilon_r = 39.32$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2480 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.601 W/kg

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

Reference Value = 2.726 V/m; Power Drift = 0.15 dB

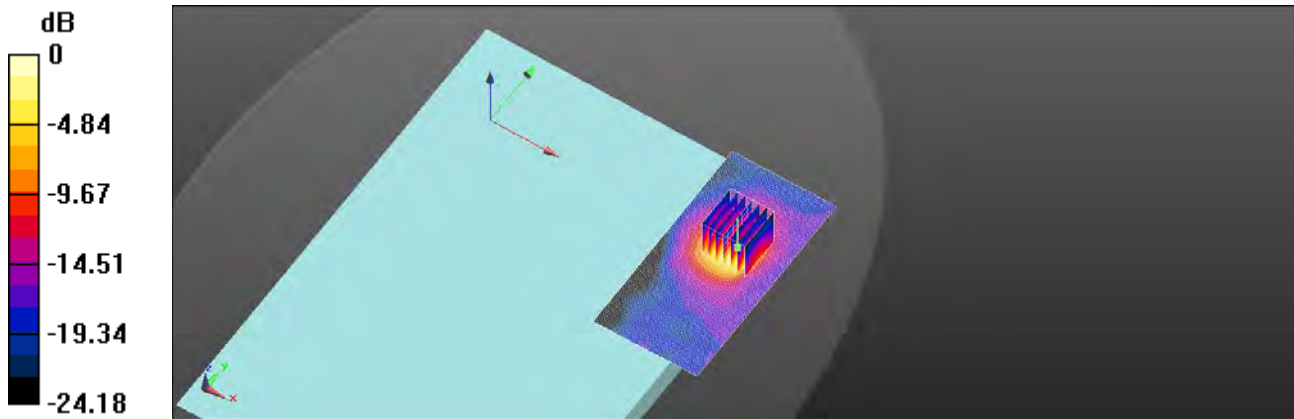
Peak SAR (extrapolated) = 0.783 W/kg

**SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.152 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 48.5%

Maximum value of SAR (measured) = 0.568 W/kg



0 dB = 0.568 W/kg = -2.46 dBW/kg

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Date: 2022/5/5

Report No. :TESA2204000049EN

WLAN 802.11ac(160M) 5.2G\_Body\_Back Surface\_CH 50\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.687 \text{ S/m}$ ;  $\epsilon_r = 36.073$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.04 W/kg

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

Reference Value = 4.067 V/m; Power Drift = 0.04 dB

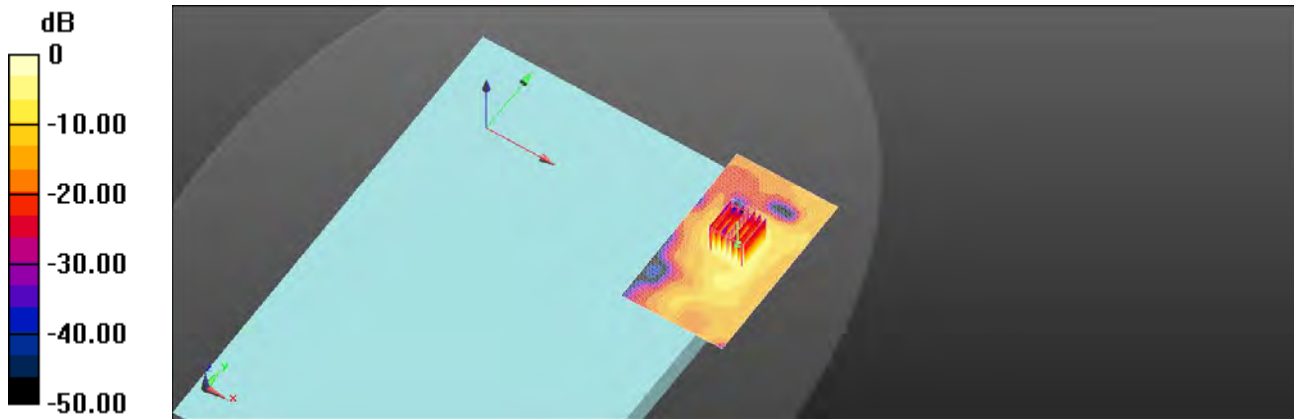
Peak SAR (extrapolated) = 2.18 W/kg

**SAR(1 g) = 0.525 W/kg; SAR(10 g) = 0.148 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.45 dBW/kg

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Date: 2022/5/5

Report No.: TESA2204000049EN

WLAN 802.11ac(80M) 5.3G\_Body\_Back Surface\_CH 58\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5290$  MHz;  $\sigma = 4.744$  S/m;  $\epsilon_r = 35.946$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

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

Reference Value = 3.832 V/m; Power Drift = 0.09 dB

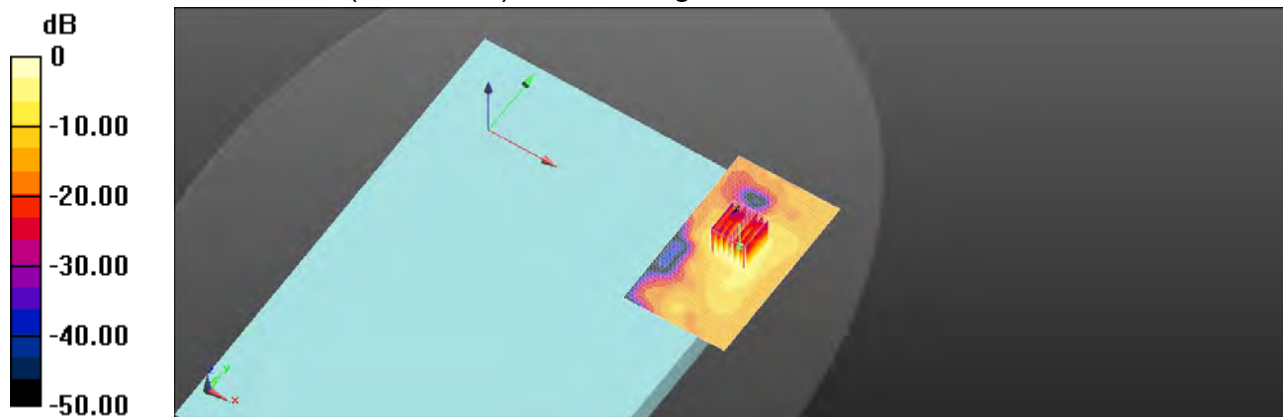
Peak SAR (extrapolated) = 2.16 W/kg

**SAR(1 g) = 0.500 W/kg; SAR(10 g) = 0.141 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 55.7%

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



0 dB = 1.05 W/kg = 0.21 dBW/kg

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Date: 2022/5/6

Report No. :TESA2204000049EN

WLAN 802.11ac(160M) 5.6G\_Body\_Back Surface\_CH 114\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5570 \text{ MHz}$ ;  $\sigma = 5.077 \text{ S/m}$ ;  $\epsilon_r = 35.594$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.30 W/kg

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

Reference Value = 3.248 V/m; Power Drift = 0.07 dB

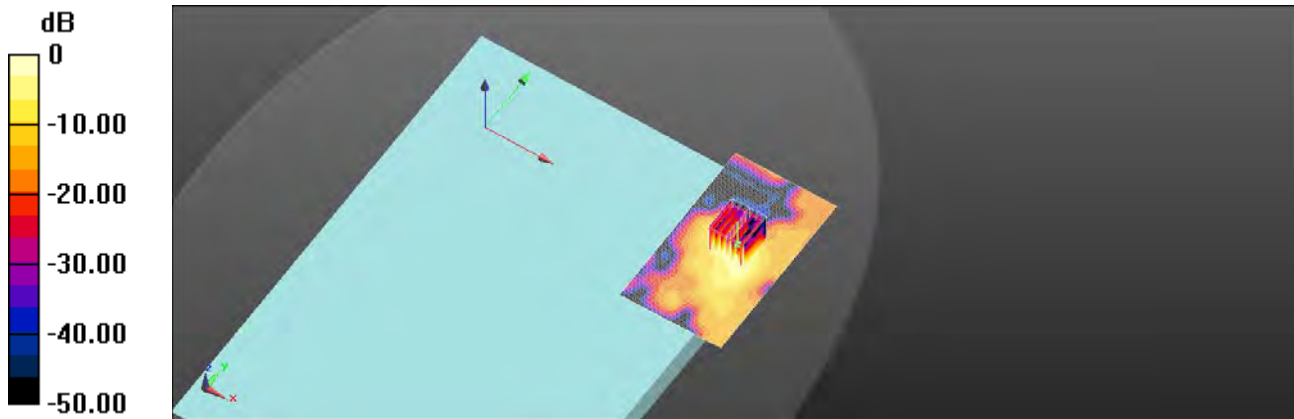
Peak SAR (extrapolated) = 2.62 W/kg

**SAR(1 g) = 0.571 W/kg; SAR(10 g) = 0.157 W/kg**

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

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

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

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Date: 2022/5/7

Report No. :TESA2204000049EN

WLAN 802.11ac(80M) 5.8G\_Body\_Back Surface\_CH 155\_0mm\_Aux

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.311 \text{ S/m}$ ;  $\epsilon_r = 35.039$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.08 W/kg

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

Reference Value = 3.338 V/m; Power Drift = 0.11 dB

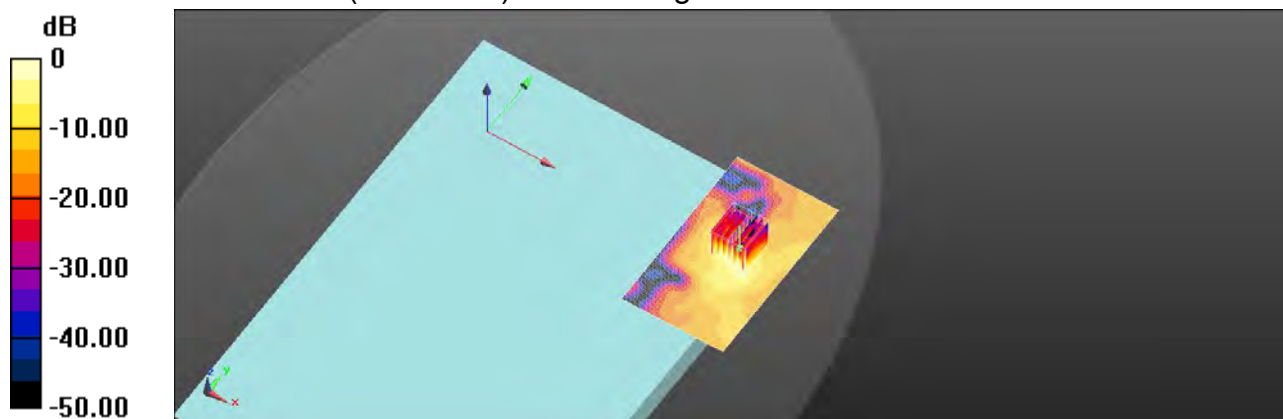
Peak SAR (extrapolated) = 2.43 W/kg

**SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.134 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

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ID: 051

Report No.: TESA2302000095EN

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

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5815$  MHz;  $\sigma = 5.284$  S/m;  $\epsilon_r = 34.91$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.45, 5.45, 5.45) @ 5815 MHz; Calibrated: 2022/3/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2022/9/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

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

Reference Value = 3.698 V/m; Power Drift = 0.09 dB

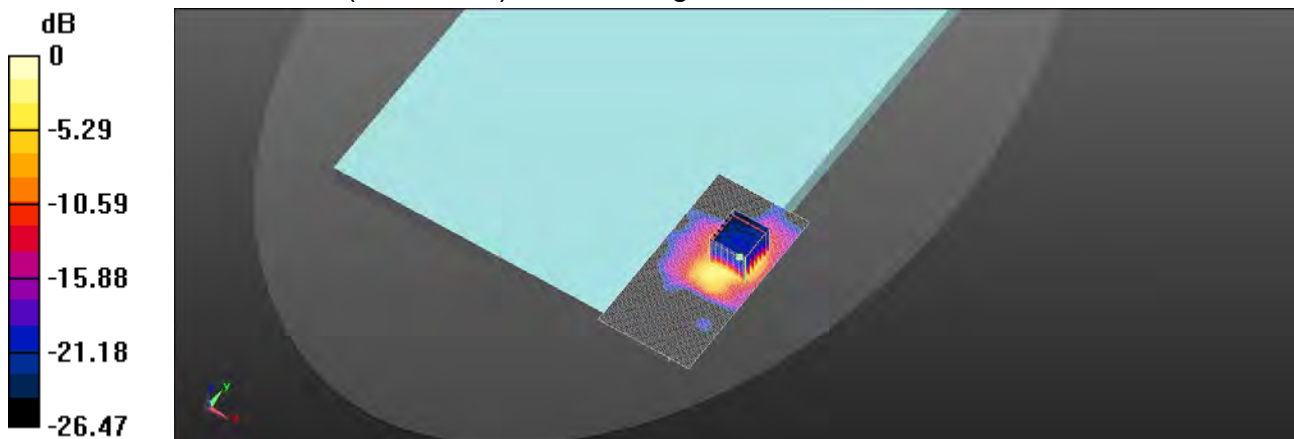
Peak SAR (extrapolated) = 2.80 W/kg

**SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.193 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 57.6%

Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.46 dBW/kg

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ID: 052

Report No. :TESA2302000095EN

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

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.031

Medium parameters used:  $f = 5815$  MHz;  $\sigma = 5.284$  S/m;  $\epsilon_r = 34.91$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.45, 5.45, 5.45) @ 5815 MHz; Calibrated: 2022/3/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2022/9/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.60 W/kg

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

Reference Value = 3.028 V/m; Power Drift = -0.07 dB

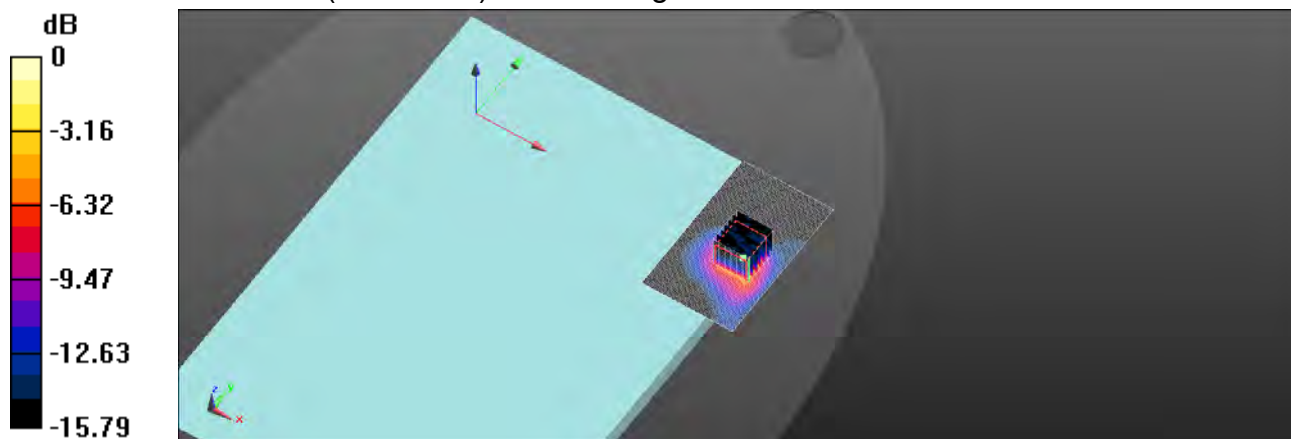
Peak SAR (extrapolated) = 3.52 W/kg

**SAR(1 g) = 0.826 W/kg; SAR(10 g) = 0.268 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 52.3%

Maximum value of SAR (measured) = 1.57 W/kg



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ID: 053

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	5.825	35.862

**Hardware Setup**

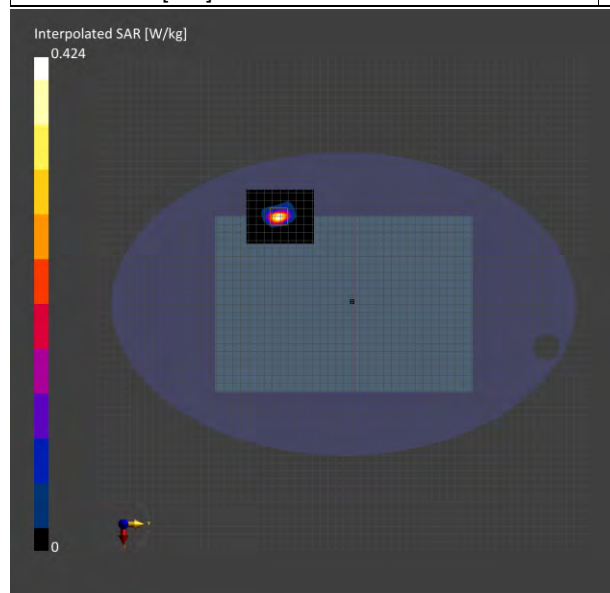
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 04:02	2022-05-06, 04:12
psSAR1g [W/kg]	0.287	0.335
psSAR8g [W/kg]	0.095	0.109
psSAR10g [W/kg]	0.082	0.094
psPDab (4.0cm2, sq) [W/m2]		2.17
Power Drift [dB]	-0.15	-0.12
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		4.6



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ID: 054

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.217	35.44

## Hardware Setup

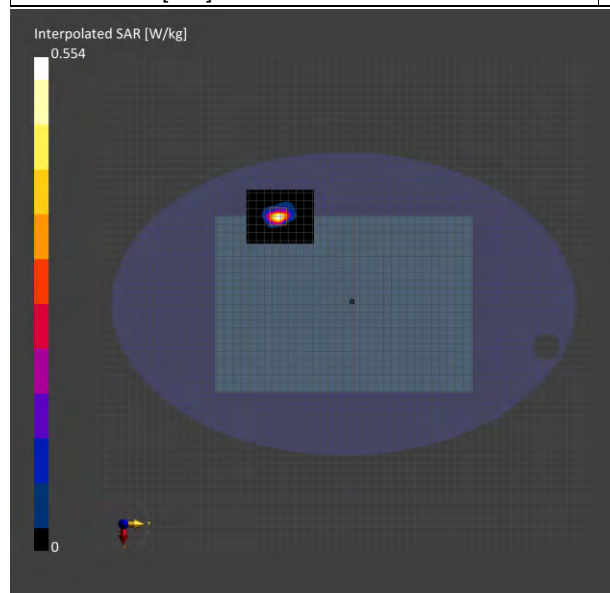
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

## Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 04:27	2022-05-06, 04:37
psSAR1g [W/kg]	0.391	0.447
psSAR8g [W/kg]	0.130	0.146
psSAR10g [W/kg]	0.113	0.126
psPDab (4.0cm2, sq) [W/m2]		2.92
Power Drift [dB]	0.06	-0.06
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		4.8



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ID: 055

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.408	35.228

### Hardware Setup

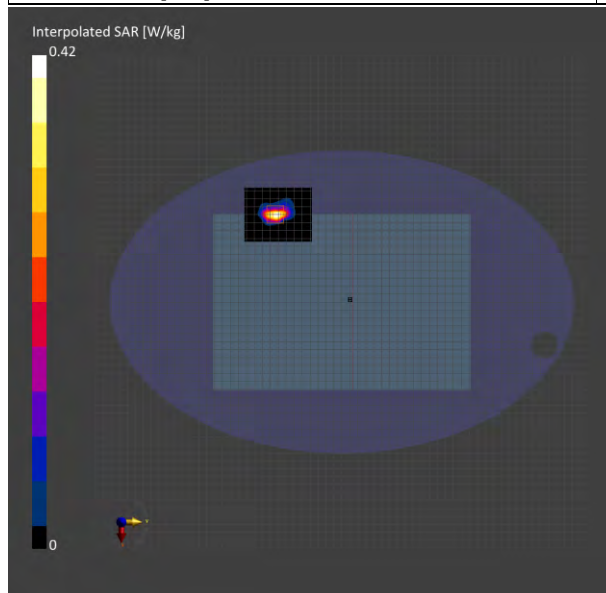
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 04:53	2022-05-06, 05:03
psSAR1g [W/kg]	0.308	0.352
psSAR8g [W/kg]	0.107	0.121
psSAR10g [W/kg]	0.093	0.105
psPDab (4.0cm2, sq) [W/m2]		2.41
Power Drift [dB]	-0.17	0.12
M2/M1 [%]		52.0
Dist 3dB Peak [mm]		4.8



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ID: 056

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-8,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.2°C

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.85	6.786	34.821

## Hardware Setup

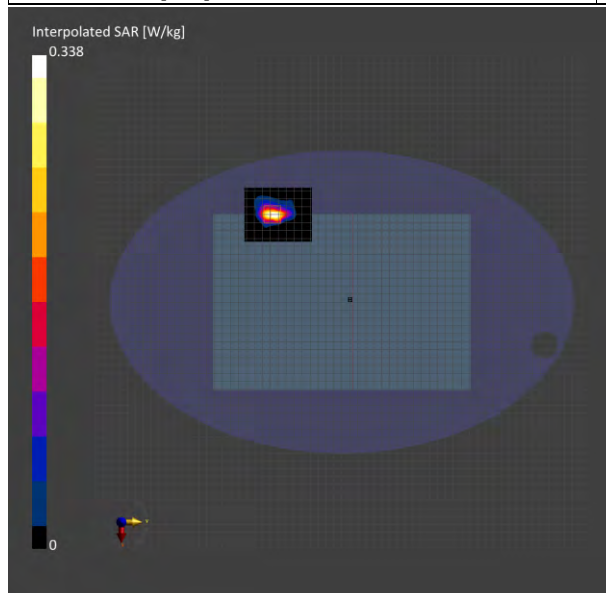
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

## Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 21:58	2022-05-06, 22:08
psSAR1g [W/kg]	0.268	0.286
psSAR8g [W/kg]	0.10	0.102
psSAR10g [W/kg]	0.088	0.090
psPDab (4.0cm2, sq) [W/m2]		2.05
Power Drift [dB]	-0.14	-0.10
M2/M1 [%]		48.5
Dist 3dB Peak [mm]		4.6



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ID: 057

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	5.632	36.085

### Hardware Setup

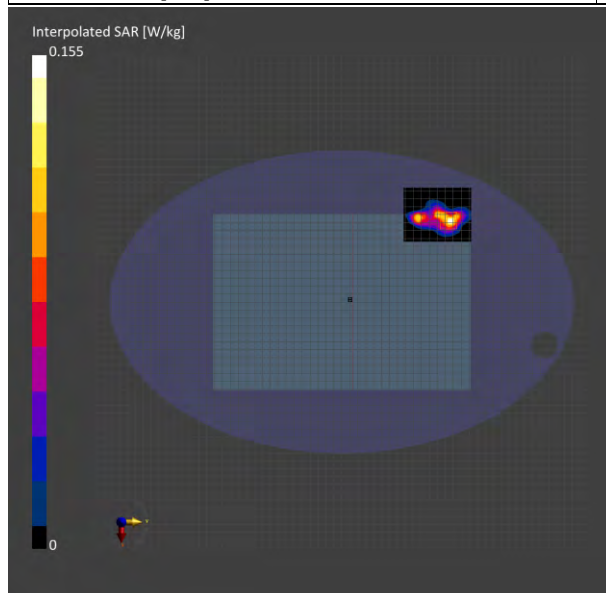
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 05:18	2022-05-06, 05:28
psSAR1g [W/kg]	0.103	0.129
psSAR8g [W/kg]	0.041	0.051
psSAR10g [W/kg]	0.037	0.045
psPDab (4.0cm2, sq) [W/m2]		1.02
Power Drift [dB]	-0.13	-0.14
M2/M1 [%]		57.0
Dist 3dB Peak [mm]		7.5



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ID: 058

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.217	35.44

## Hardware Setup

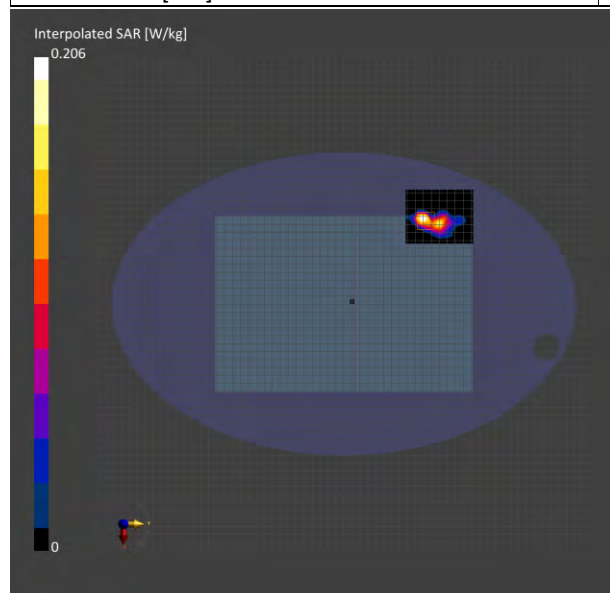
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

## Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 05:43	2022-05-06, 05:53
psSAR1g [W/kg]	0.152	0.185
psSAR8g [W/kg]	0.052	0.061
psSAR10g [W/kg]	0.045	0.053
psPDab (4.0cm2, sq) [W/m2]		1.23
Power Drift [dB]	-0.08	0.11
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		5.4



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ID: 059

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.408	35.228

**Hardware Setup**

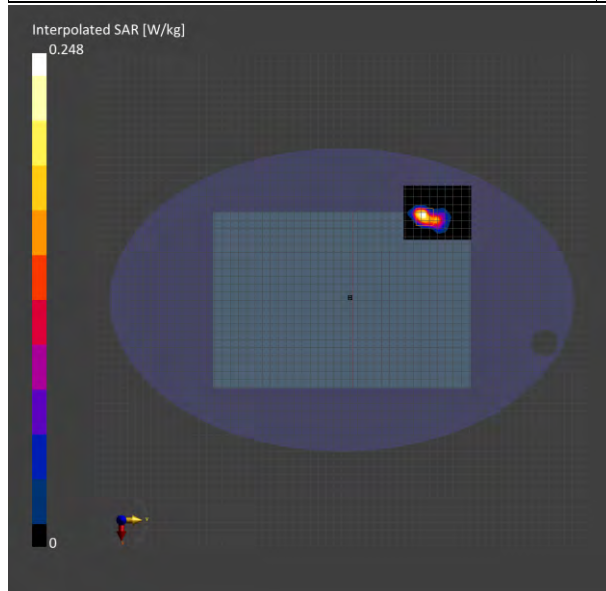
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 06:08	2022-05-06, 06:18
psSAR1g [W/kg]	0.185	0.223
psSAR8g [W/kg]	0.066	0.076
psSAR10g [W/kg]	0.058	0.067
psPDab (4.0cm2, sq) [W/m2]		1.52
Power Drift [dB]	-0.06	-0.09
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		5.8



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ID: 060

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-8,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.2°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.85	6.786	34.821

### Hardware Setup

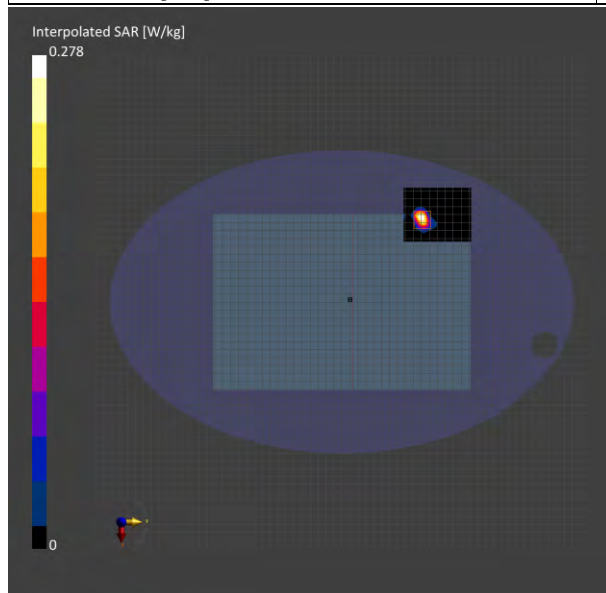
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 22:17	2022-05-06, 22:27
psSAR1g [W/kg]	0.219	0.243
psSAR8g [W/kg]	0.070	0.073
psSAR10g [W/kg]	0.060	0.063
psPDab (4.0cm2, sq) [W/m2]		1.47
Power Drift [dB]	-0.08	-0.05
M2/M1 [%]		48.8
Dist 3dB Peak [mm]		5.5



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ID: 061

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.65	6.022	35.64

### Hardware Setup

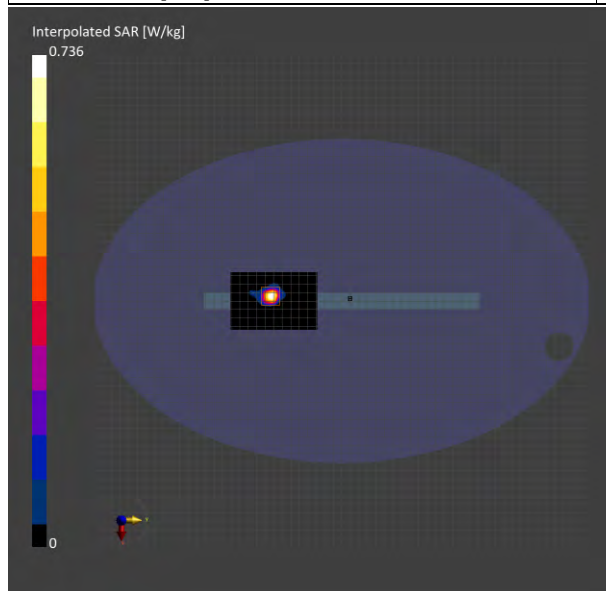
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### 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	2022-05-06, 06:34	2022-05-06, 06:44
psSAR1g [W/kg]	0.535	0.726
psSAR8g [W/kg]	0.164	0.194
psSAR10g [W/kg]	0.138	0.162
psPDab (4.0cm2, sq) [W/m2]		3.88
Power Drift [dB]	0.01	-0.03
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		5.2



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ID: 062

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.65	6.217	35.44

### Hardware Setup

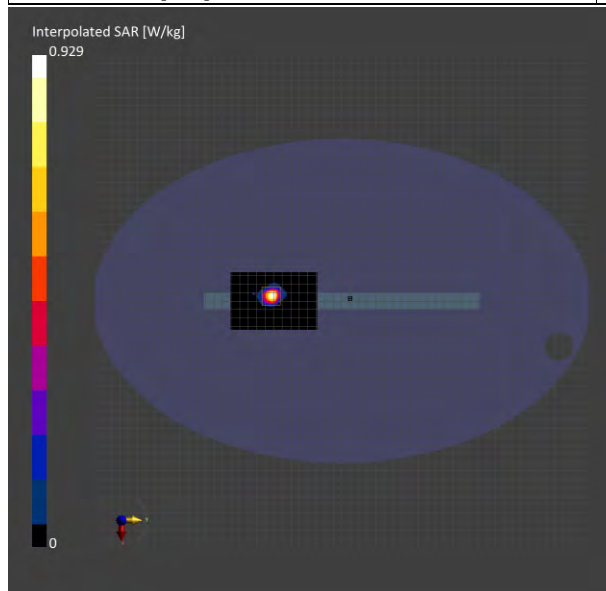
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### 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	2022-05-06, 06:59	2022-05-06, 07:09
psSAR1g [W/kg]	0.660	0.861
psSAR8g [W/kg]	0.201	0.230
psSAR10g [W/kg]	0.169	0.193
psPDab (4.0cm2, sq) [W/m2]		4.61
Power Drift [dB]	0.05	-0.02
M2/M1 [%]		55.9
Dist 3dB Peak [mm]		4.8



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ID: 063

Report No.: TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.65	6.408	35.228

## Hardware Setup

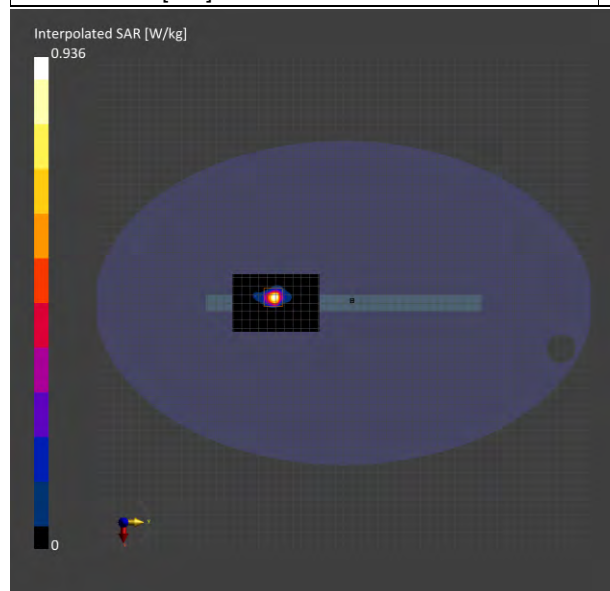
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

## 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	2022-05-06, 07:25	2022-05-06, 07:35
psSAR1g [W/kg]	0.658	0.841
psSAR8g [W/kg]	0.196	0.225
psSAR10g [W/kg]	0.166	0.189
psPDab (4.0cm2, sq) [W/m2]		4.51
Power Drift [dB]	0.02	0.05
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		5.4



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ID: 064

Report No.: TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-8,  
IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 183 (6865.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.2°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.65	6.64	34.974

### Hardware Setup

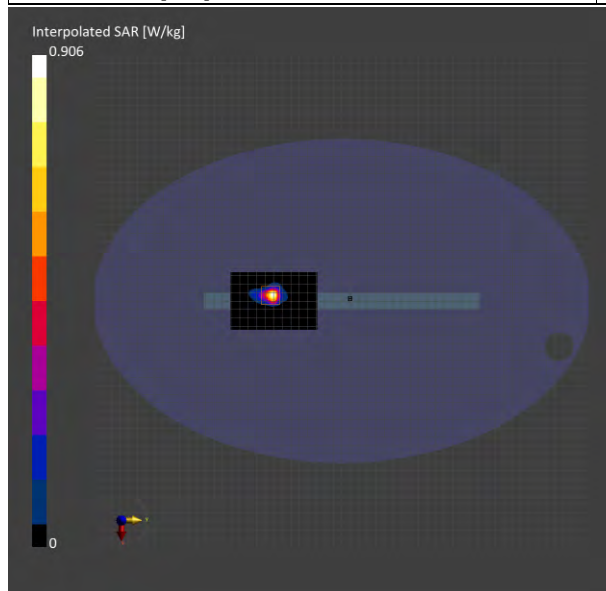
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### 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	2022-05-06, 22:51	2022-05-06, 23:01
psSAR1g [W/kg]	0.641	0.773
psSAR8g [W/kg]	0.198	0.216
psSAR10g [W/kg]	0.169	0.182
psPDab (4.0cm2, sq) [W/m2]		4.32
Power Drift [dB]	0.10	0.07
M2/M1 [%]		51.3
Dist 3dB Peak [mm]		5.2



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ID: 065

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	5.825	35.862

### Hardware Setup

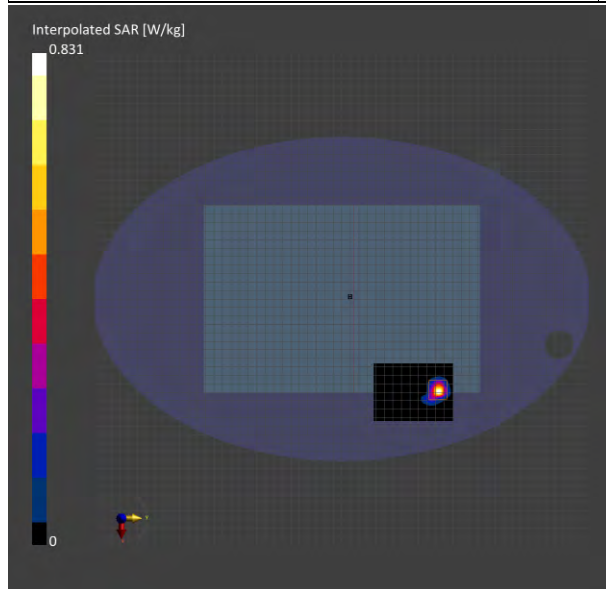
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 08:01	2022-05-06, 08:11
psSAR1g [W/kg]	0.510	0.595
psSAR8g [W/kg]	0.160	0.184
psSAR10g [W/kg]	0.137	0.157
psPDab (4.0cm2, sq) [W/m2]		3.68
Power Drift [dB]	0.03	-0.06
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		5.5



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ID: 066

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.217	35.44

### Hardware Setup

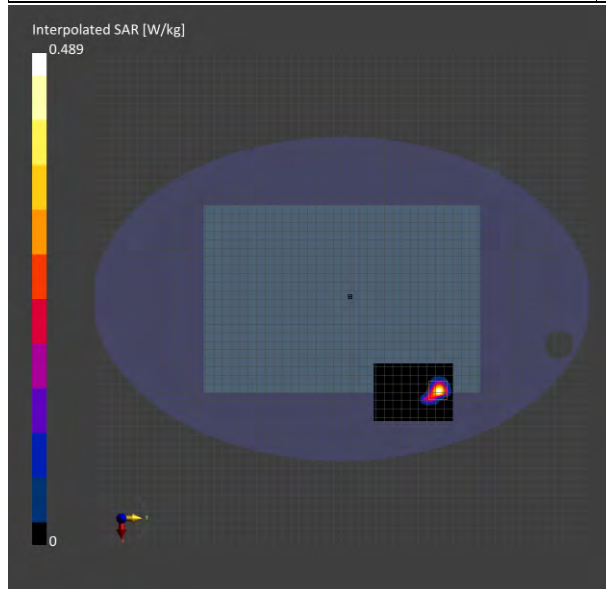
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 08:28	2022-05-06, 08:38
psSAR1g [W/kg]	0.322	0.370
psSAR8g [W/kg]	0.103	0.116
psSAR10g [W/kg]	0.089	0.101
psPDab (4.0cm2, sq) [W/m2]		2.33
Power Drift [dB]	0.04	0.02
M2/M1 [%]		51.7
Dist 3dB Peak [mm]		5.2



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ID: 067

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.408	35.228

### Hardware Setup

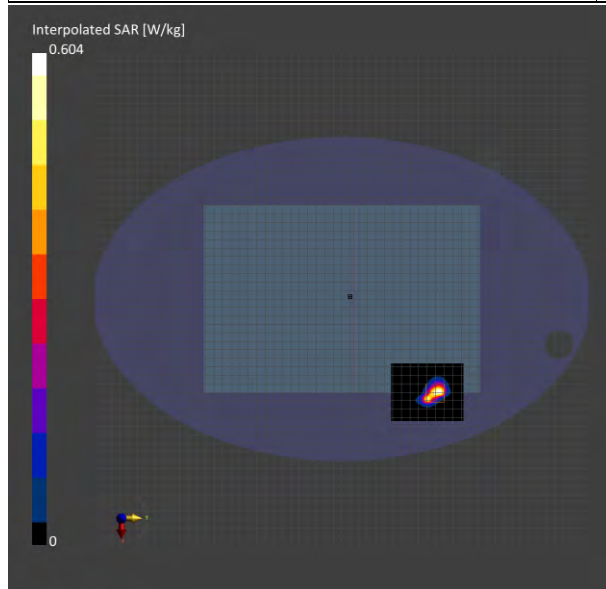
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 08:54	2022-05-06, 09:04
psSAR1g [W/kg]	0.432	0.454
psSAR8g [W/kg]	0.148	0.160
psSAR10g [W/kg]	0.130	0.139
psPDab (4.0cm2, sq) [W/m2]		3.19
Power Drift [dB]	0.02	0.02
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		5.8



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ID: 068

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-8,  
IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 183 (6865.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.2°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.64	34.974

### Hardware Setup

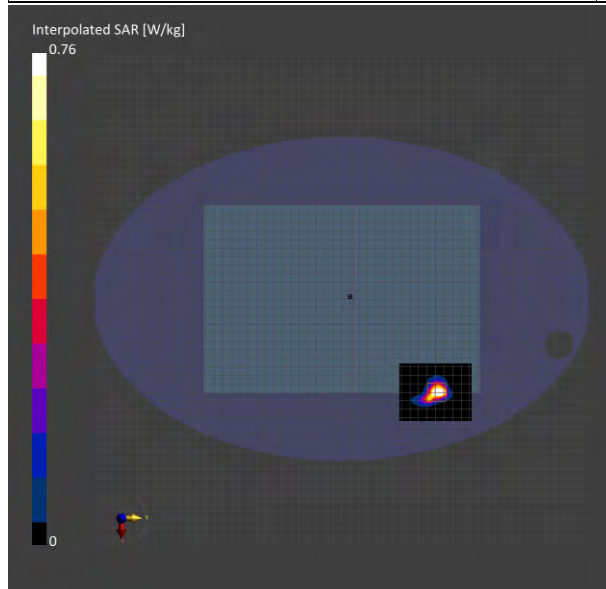
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-06, 23:16	2022-05-06, 23:26
psSAR1g [W/kg]	0.581	0.617
psSAR8g [W/kg]	0.189	0.200
psSAR10g [W/kg]	0.164	0.172
psPDab (4.0cm2, sq) [W/m2]		4.01
Power Drift [dB]	0.13	0.04
M2/M1 [%]		51.2
Dist 3dB Peak [mm]		6.1



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ID: 069

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	5.66	36.175

**Hardware Setup**

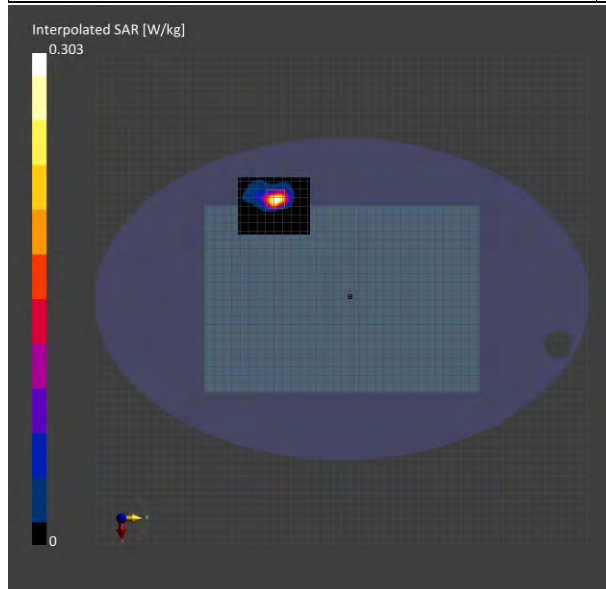
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 01:29	2022-05-05, 01:39
psSAR1g [W/kg]	0.215	0.263
psSAR8g [W/kg]	0.075	0.085
psSAR10g [W/kg]	0.066	0.073
psPDab (4.0cm2, sq) [W/m2]		1.71
Power Drift [dB]	0.13	0.04
M2/M1 [%]		53.5
Dist 3dB Peak [mm]		4.6



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ID: 070

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.249	35.53

### Hardware Setup

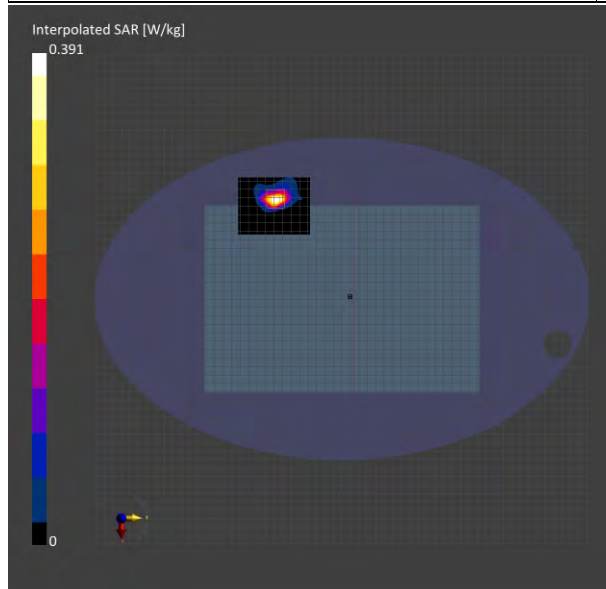
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 01:55	2022-05-05, 02:05
psSAR1g [W/kg]	0.294	0.344
psSAR8g [W/kg]	0.105	0.115
psSAR10g [W/kg]	0.092	0.10
psPDab (4.0cm2, sq) [W/m2]		2.31
Power Drift [dB]	0.02	0.03
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		4.8



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ID: 071

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.44	35.318

### Hardware Setup

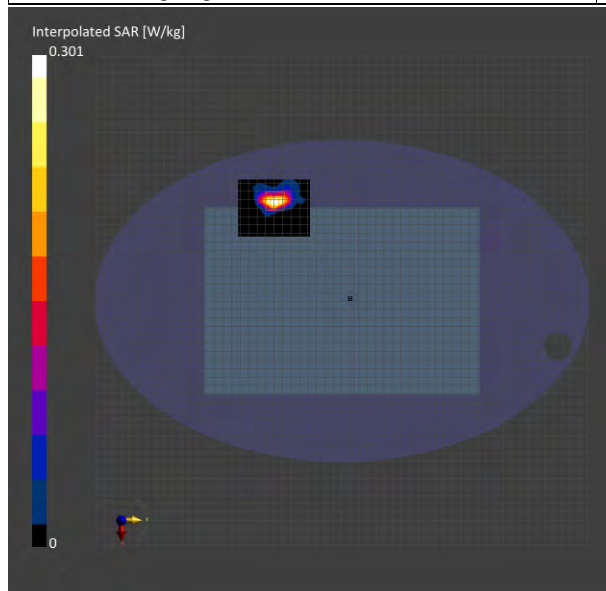
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 02:31	2022-05-05, 02:41
psSAR1g [W/kg]	0.233	0.266
psSAR8g [W/kg]	0.086	0.093
psSAR10g [W/kg]	0.076	0.081
psPDab (4.0cm2, sq) [W/m2]		1.85
Power Drift [dB]	-0.09	-0.07
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		5.2



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ID: 072

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-8,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.2°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	5.85	6.816	34.911

**Hardware Setup**

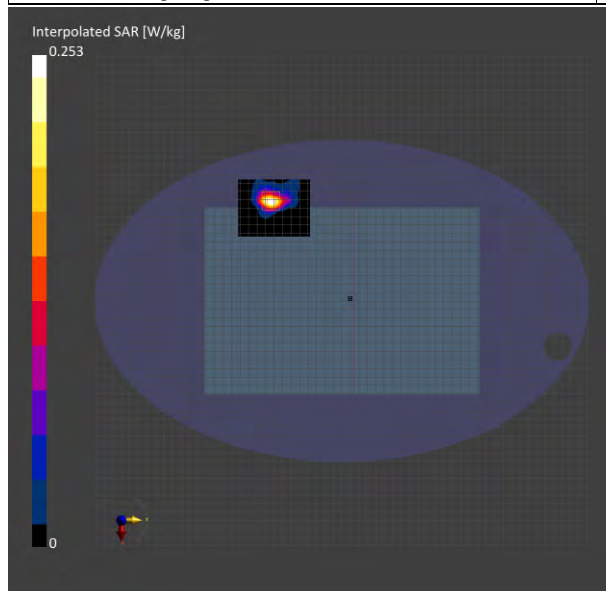
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 19:42	2022-05-05, 19:52
psSAR1g [W/kg]	0.206	0.214
psSAR8g [W/kg]	0.077	0.080
psSAR10g [W/kg]	0.068	0.070
psPDab (4.0cm2, sq) [W/m2]		1.59
Power Drift [dB]	-0.07	-0.07
M2/M1 [%]		48.4
Dist 3dB Peak [mm]		5.0



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ID: 073

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	5.66	36.175

**Hardware Setup**

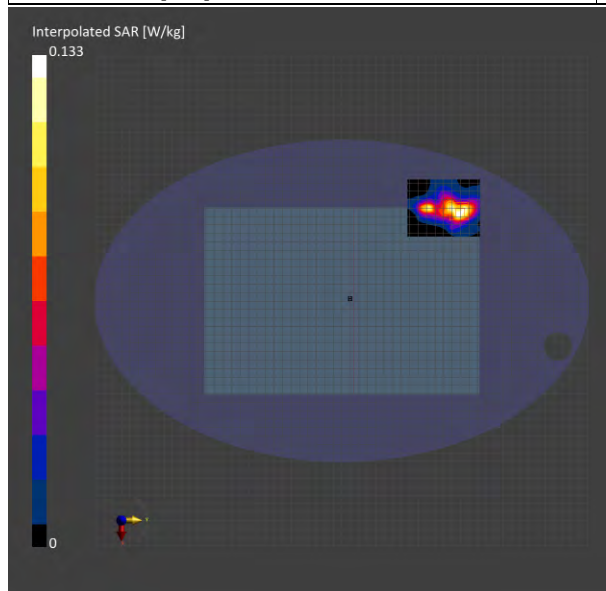
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 02:56	2022-05-05, 03:06
psSAR1g [W/kg]	0.097	0.100
psSAR8g [W/kg]	0.041	0.041
psSAR10g [W/kg]	0.037	0.037
psPDab (4.0cm2, sq) [W/m2]		0.821
Power Drift [dB]	0.10	0.06
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		7.6



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ID: 074

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.249	35.53

### Hardware Setup

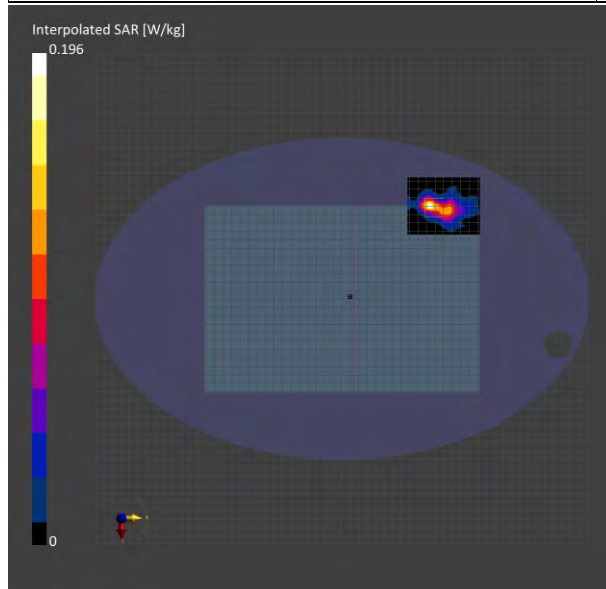
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 03:22	2022-05-05, 03:32
psSAR1g [W/kg]	0.132	0.142
psSAR8g [W/kg]	0.046	0.047
psSAR10g [W/kg]	0.041	0.041
psPDab (4.0cm2, sq) [W/m2]		0.945
Power Drift [dB]	0.16	0.13
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		5.5



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ID: 075

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.65	6.44	35.318

### Hardware Setup

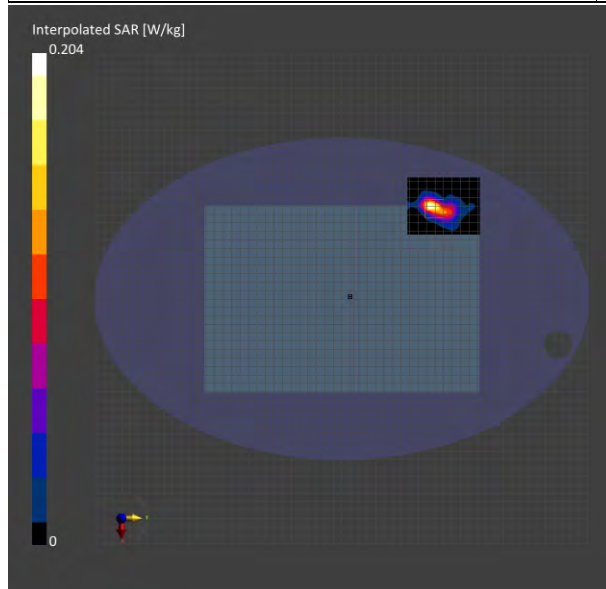
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 03:47	2022-05-05, 03:57
psSAR1g [W/kg]	0.145	0.155
psSAR8g [W/kg]	0.052	0.052
psSAR10g [W/kg]	0.046	0.046
psPDab (4.0cm2, sq) [W/m2]		1.05
Power Drift [dB]	0.18	0.13
M2/M1 [%]		48.3
Dist 3dB Peak [mm]		5.5



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ID: 076

Report No.: TESA2204000049EN

Measurement Report for B5402FBA, Bottom Surface, U-NII-8,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.2°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	5.85	6.816	34.911

### Hardware Setup

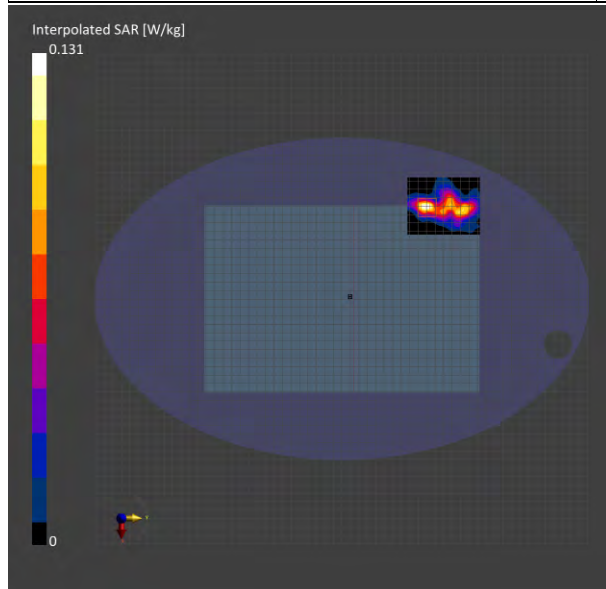
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 20:09	2022-05-05, 20:19
psSAR1g [W/kg]	0.102	0.109
psSAR8g [W/kg]	0.036	0.038
psSAR10g [W/kg]	0.032	0.033
psPDab (4.0cm2, sq) [W/m2]		0.762
Power Drift [dB]	0.15	0.14
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		6.5



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ID: 077

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.65	6.052	35.73

**Hardware Setup**

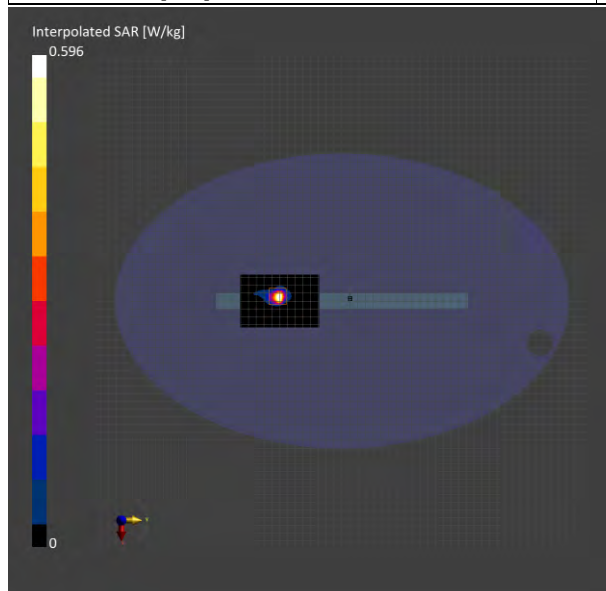
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**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	2022-05-05, 04:21	2022-05-05, 04:31
psSAR1g [W/kg]	0.417	0.541
psSAR8g [W/kg]	0.124	0.140
psSAR10g [W/kg]	0.105	0.117
psPDab (4.0cm2, sq) [W/m2]		2.80
Power Drift [dB]	0.12	-0.04
M2/M1 [%]		52.8
Dist 3dB Peak [mm]		5.4



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ID: 078

Report No.: TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.65	6.249	35.53

### Hardware Setup

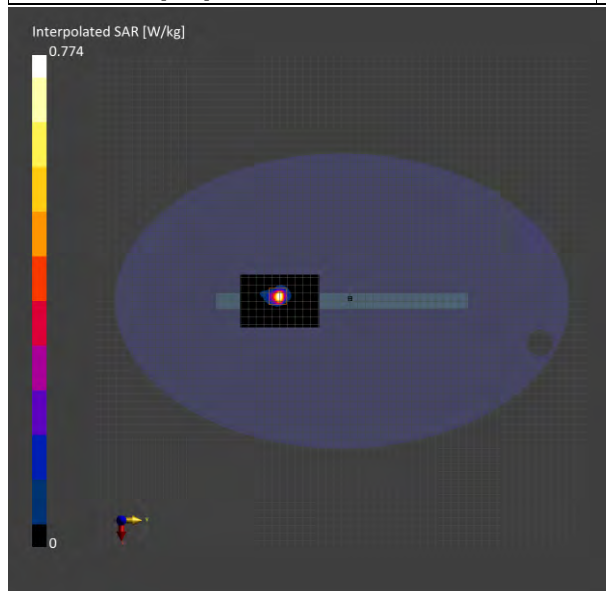
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### 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	2022-05-05, 04:56	2022-05-05, 05:06
psSAR1g [W/kg]	0.537	0.678
psSAR8g [W/kg]	0.160	0.178
psSAR10g [W/kg]	0.135	0.149
psPDab (4.0cm2, sq) [W/m2]		3.56
Power Drift [dB]	0.06	-0.06
M2/M1 [%]		52.8
Dist 3dB Peak [mm]		5.4



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ID: 079

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-7,  
IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.65	6.44	35.318

**Hardware Setup**

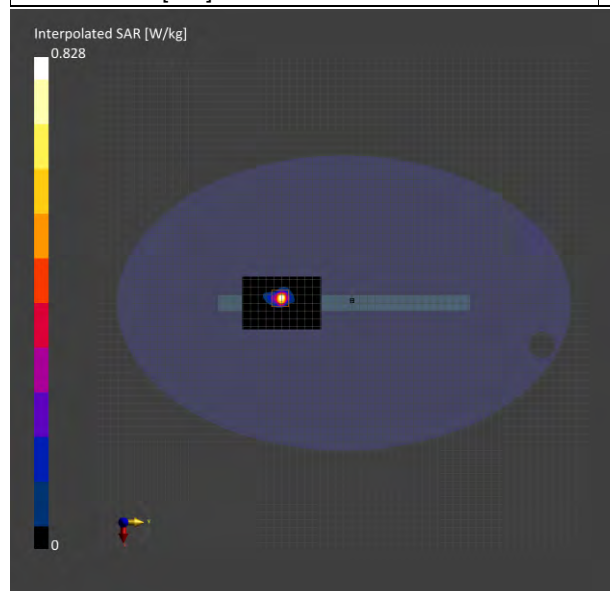
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**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	2022-05-05, 05:21	2022-05-05, 05:31
psSAR1g [W/kg]	0.560	0.702
psSAR8g [W/kg]	0.163	0.185
psSAR10g [W/kg]	0.138	0.154
psPDab (4.0cm2, sq) [W/m2]		3.69
Power Drift [dB]	0.01	0.01
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		4.9



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ID: 080

Report No.: TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-8,  
IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 183 (6865.0 MHz)

Ambient temperature: 22.2°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	Top Edge, 0.00	5.65	6.671	35.064

### Hardware Setup

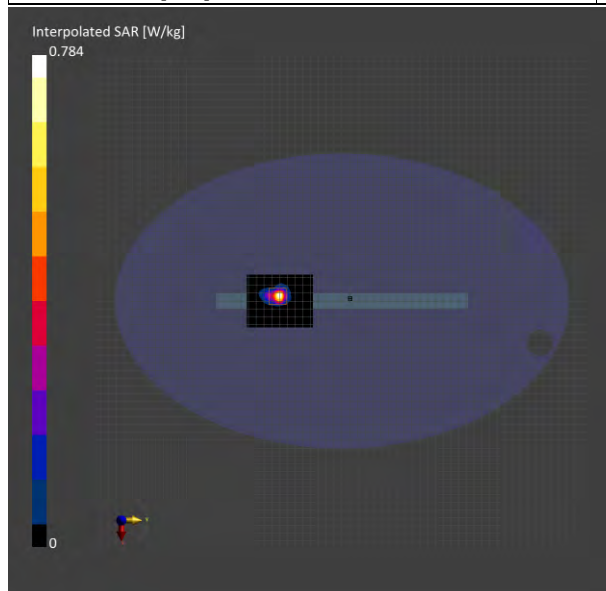
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 21:37	2022-05-05, 21:47
psSAR1g [W/kg]	0.547	0.644
psSAR8g [W/kg]	0.168	0.178
psSAR10g [W/kg]	0.144	0.151
psPDab (4.0cm2, sq) [W/m2]		3.56
Power Drift [dB]	-0.08	-0.11
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		5.4



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ID: 081

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5.65	5.857	35.952

## Hardware Setup

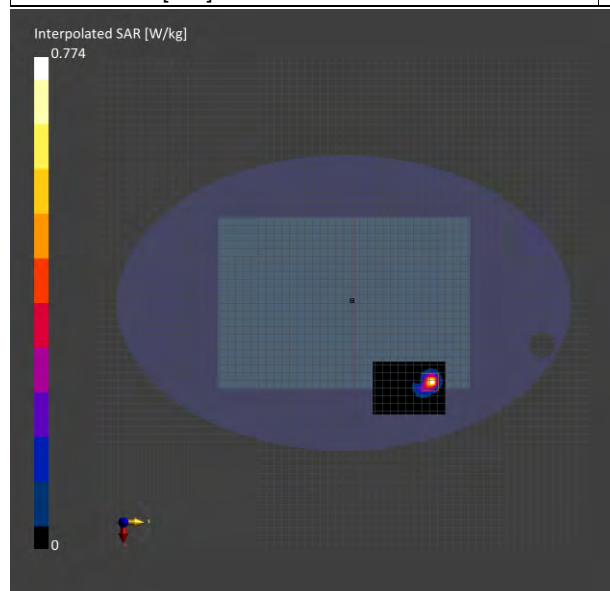
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

## Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 05:47	2022-05-05, 05:57
psSAR1g [W/kg]	0.477	0.536
psSAR8g [W/kg]	0.153	0.167
psSAR10g [W/kg]	0.132	0.142
psPDab (4.0cm2, sq) [W/m2]		3.33
Power Drift [dB]	0.05	-0.07
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		5.6



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ID: 082

Report No.: TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5.65	6.249	35.53

### Hardware Setup

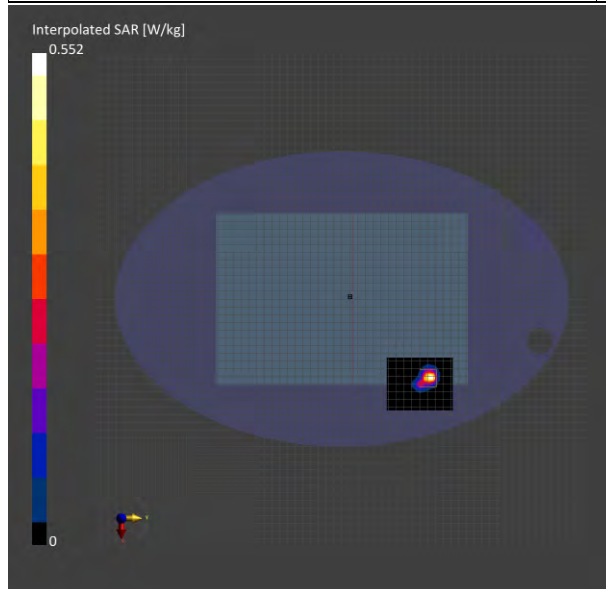
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 06:13	2022-05-05, 06:23
psSAR1g [W/kg]	0.370	0.412
psSAR8g [W/kg]	0.120	0.128
psSAR10g [W/kg]	0.104	0.109
psPDab (4.0cm2, sq) [W/m2]		2.56
Power Drift [dB]	0.04	-0.05
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		5.2



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ID: 083

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5.65	6.44	35.318

### Hardware Setup

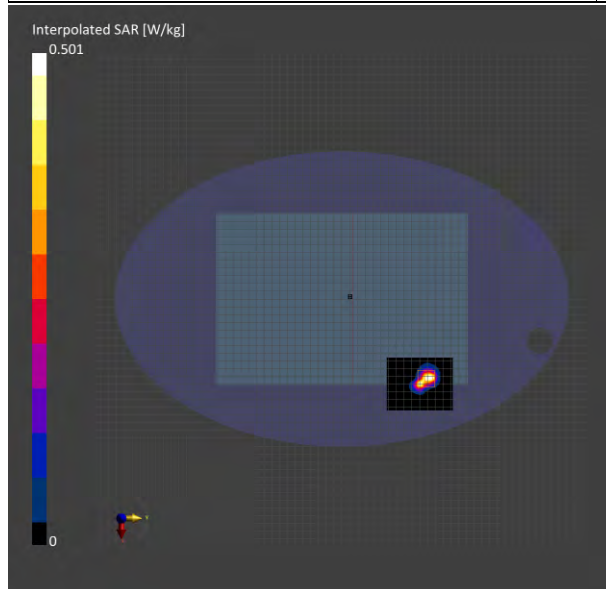
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 06:40	2022-05-05, 06:51
psSAR1g [W/kg]	0.371	0.416
psSAR8g [W/kg]	0.135	0.141
psSAR10g [W/kg]	0.118	0.122
psPDab (4.0cm2, sq) [W/m2]		2.81
Power Drift [dB]	0.03	0.08
M2/M1 [%]		49.5
Dist 3dB Peak [mm]		5.8



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ID: 084

Report No.: TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-8,  
IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 183 (6865.0 MHz)

Ambient temperature: 22.2°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	Back Surface, 0.00	5.65	6.671	35.064

### Hardware Setup

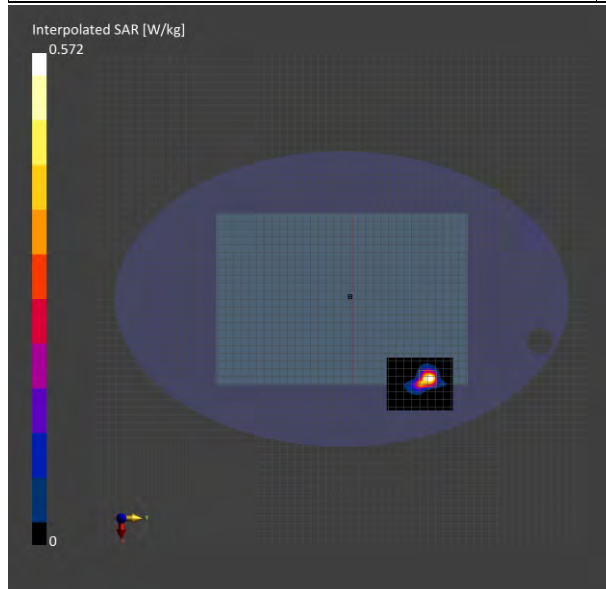
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	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	2022-05-05, 21:02	2022-05-05, 21:12
psSAR1g [W/kg]	0.451	0.526
psSAR8g [W/kg]	0.160	0.170
psSAR10g [W/kg]	0.139	0.145
psPDab (4.0cm2, sq) [W/m2]		3.40
Power Drift [dB]	0.07	0.03
M2/M1 [%]		48.8
Dist 3dB Peak [mm]		6.1



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ID: 085

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

## Hardware Setup

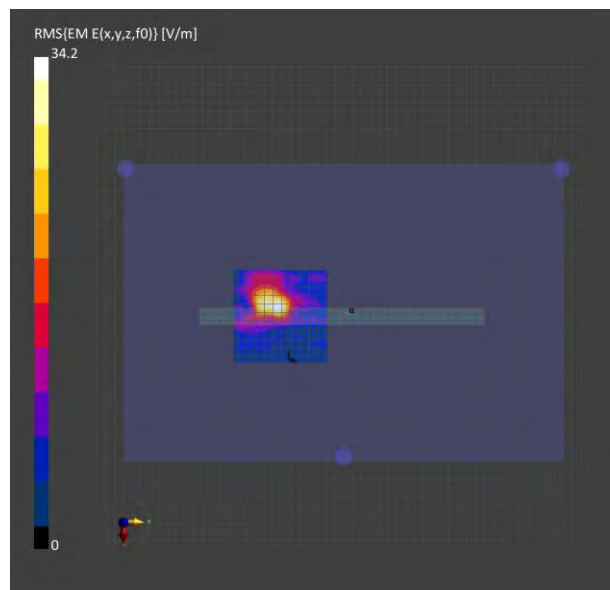
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-09, 23:53
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.63
psPDtot+ [W/m <sup>2</sup> ]	1.86
psPDmod+ [W/m <sup>2</sup> ]	1.96
E <sub>max</sub> [V/m]	34.2
Power Drift [dB]	-0.11



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## 13 PD MEASUREMENT RESULTS

ID: 086

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

## Hardware Setup

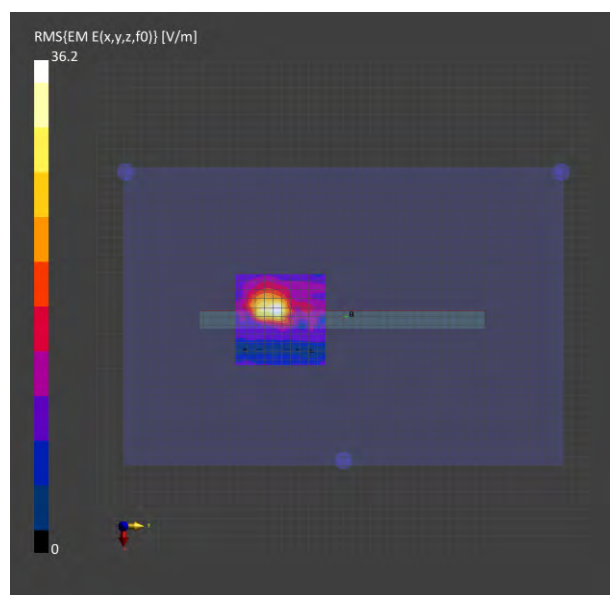
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-10, 02:10
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.84
psPDtot+ [W/m <sup>2</sup> ]	1.97
psPDmod+ [W/m <sup>2</sup> ]	2.12
E <sub>max</sub> [V/m]	36.2
Power Drift [dB]	0.02



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ID: 087

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

## Hardware Setup

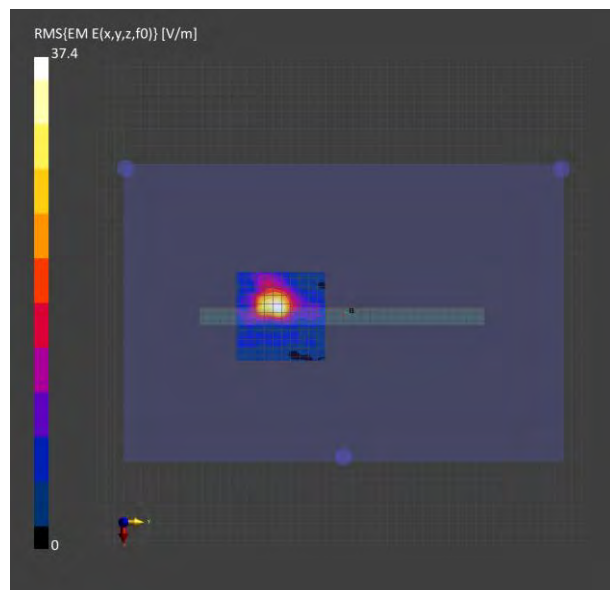
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-10, 04:09
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.00
psPDtot+ [W/m <sup>2</sup> ]	2.18
psPDmod+ [W/m <sup>2</sup> ]	2.34
E <sub>max</sub> [V/m]	37.4
Power Drift [dB]	0.13



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ID: 088

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

**Hardware Setup**

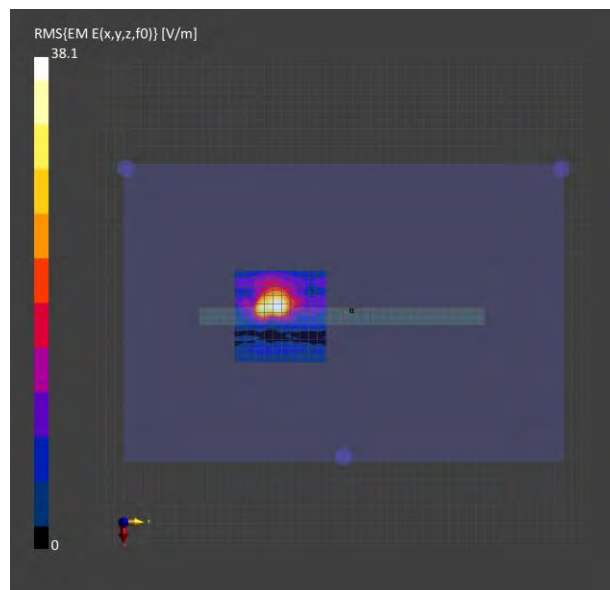
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-05-10, 06:43
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.21
psPDtot+ [W/m <sup>2</sup> ]	2.56
psPDmod+ [W/m <sup>2</sup> ]	2.76
E <sub>max</sub> [V/m]	38.1
Power Drift [dB]	0.08



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ID: 089

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-8,  
IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 183 (6865.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

## Hardware Setup

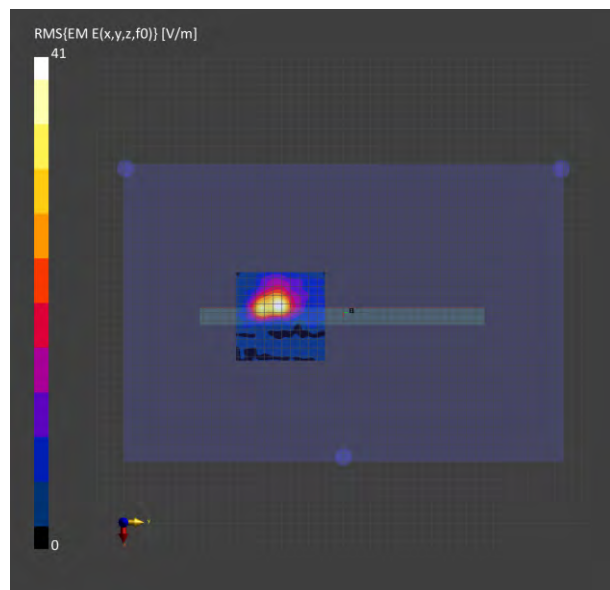
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-10, 08:48
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.21
psPDtot+ [W/m <sup>2</sup> ]	2.71
psPDmod+ [W/m <sup>2</sup> ]	2.89
E <sub>max</sub> [V/m]	41.0
Power Drift [dB]	0.19



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ID: 090

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

## Hardware Setup

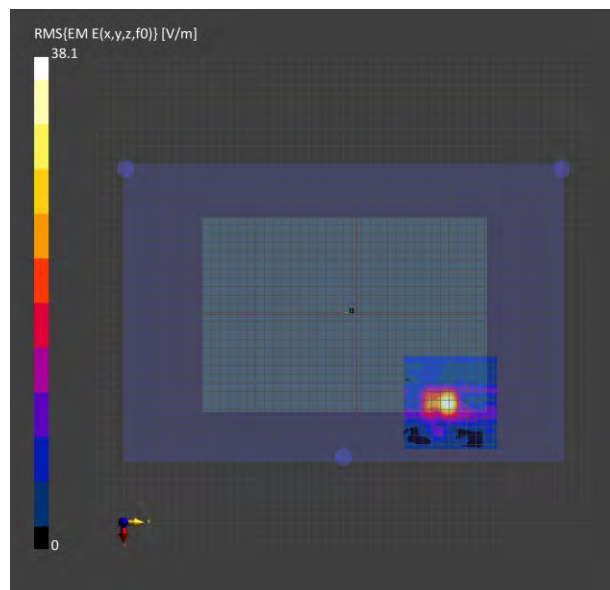
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-10, 11:10
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.40
psPDtot+ [W/m <sup>2</sup> ]	1.52
psPDmod+ [W/m <sup>2</sup> ]	1.85
E <sub>max</sub> [V/m]	38.1
Power Drift [dB]	0.10



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ID: 091

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

## Hardware Setup

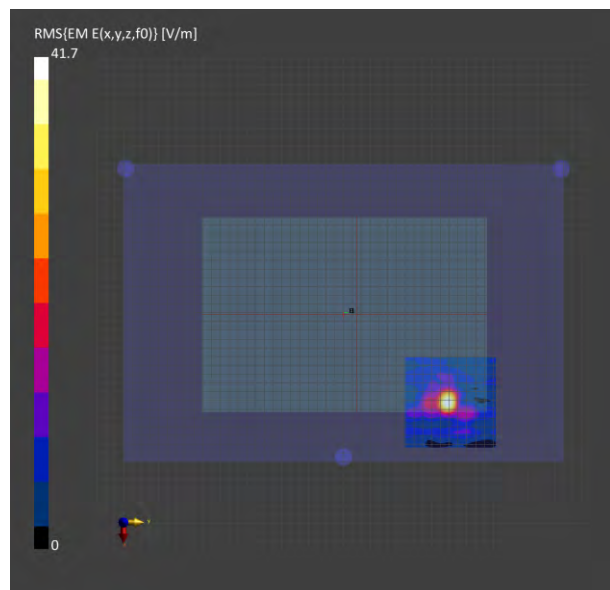
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-10, 13:28
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.37
psPDtot+ [W/m <sup>2</sup> ]	1.52
psPDmod+ [W/m <sup>2</sup> ]	2.02
E <sub>max</sub> [V/m]	41.7
Power Drift [dB]	0.08



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ID: 092

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

## Hardware Setup

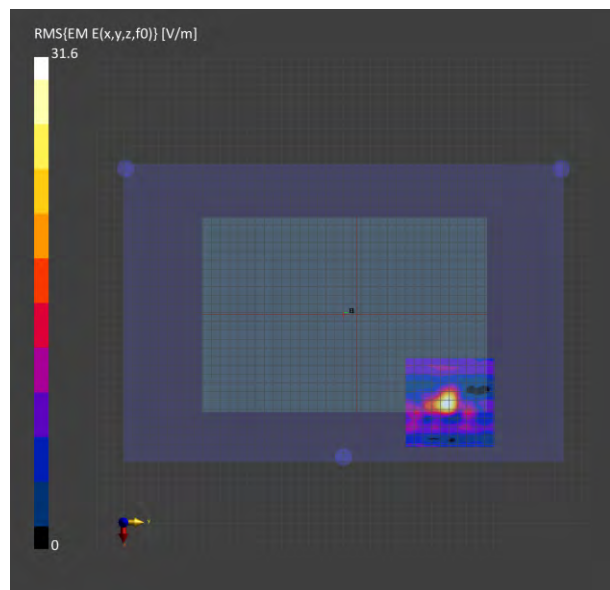
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-10, 15:31
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.556
psPDtot+ [W/m <sup>2</sup> ]	0.837
psPDmod+ [W/m <sup>2</sup> ]	1.11
E <sub>max</sub> [V/m]	31.6
Power Drift [dB]	-0.05



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ID: 093

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

**Hardware Setup**

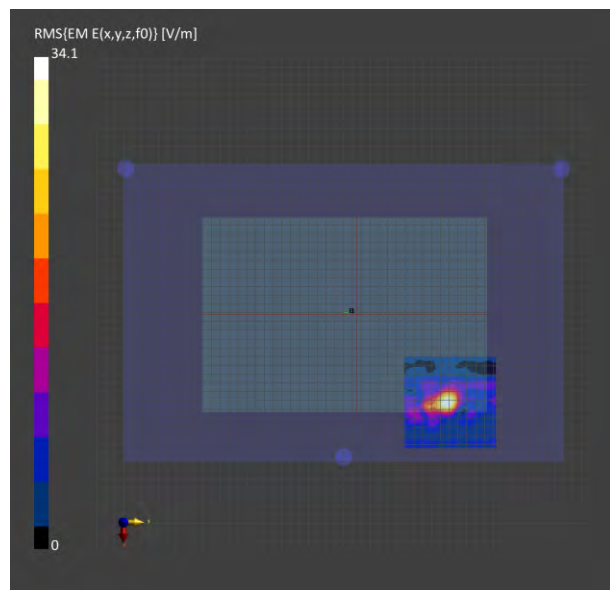
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-05-10, 17:43
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.954
psPDtot+ [W/m <sup>2</sup> ]	1.15
psPDmod+ [W/m <sup>2</sup> ]	1.34
E <sub>max</sub> [V/m]	34.1
Power Drift [dB]	0.09



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ID: 094

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-8,  
IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 183 (6865.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

## Hardware Setup

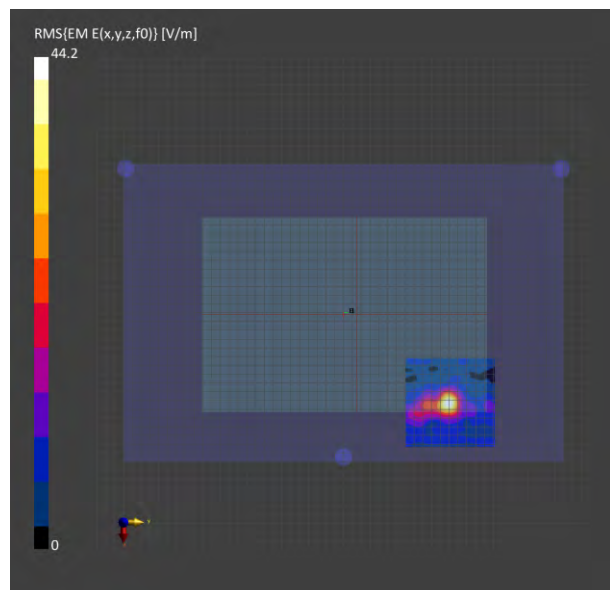
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-10, 19:22
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.46
psPDtot+ [W/m <sup>2</sup> ]	1.75
psPDmod+ [W/m <sup>2</sup> ]	2.13
E <sub>max</sub> [V/m]	44.2
Power Drift [dB]	-0.03



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ID: 095

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

## Hardware Setup

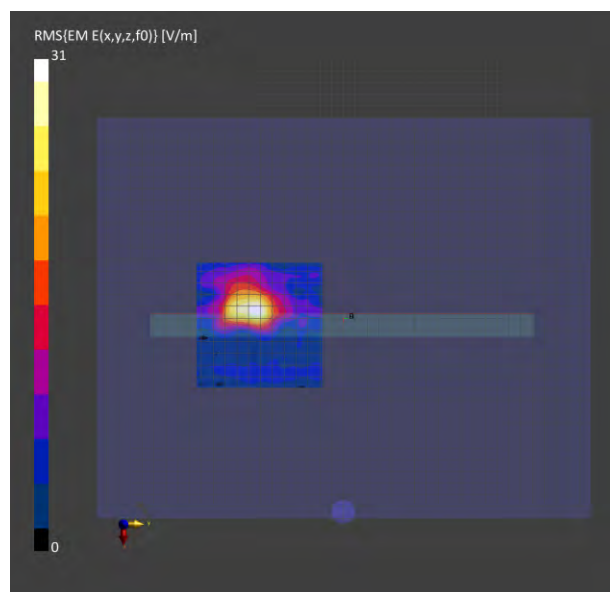
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-07, 03:22
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.25
psPDtot+ [W/m <sup>2</sup> ]	1.53
psPDmod+ [W/m <sup>2</sup> ]	1.66
E <sub>max</sub> [V/m]	31.0
Power Drift [dB]	0.02



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ID: 096

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

## Hardware Setup

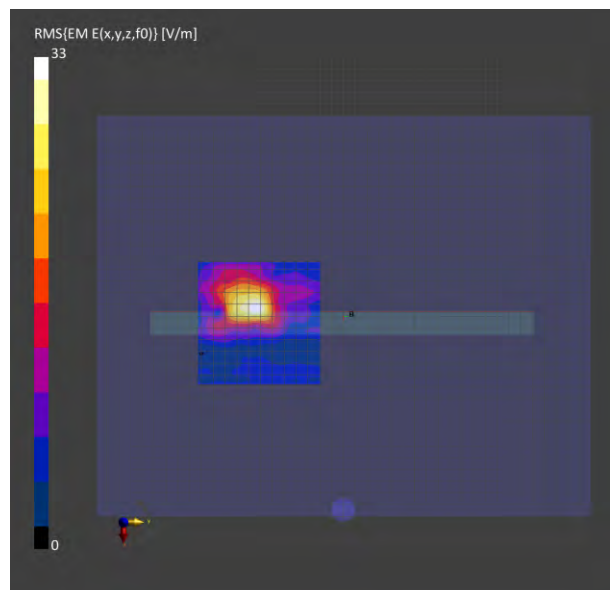
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-07, 05:43
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.61
psPDtot+ [W/m <sup>2</sup> ]	1.77
psPDmod+ [W/m <sup>2</sup> ]	1.87
E <sub>max</sub> [V/m]	33.0
Power Drift [dB]	-0.10



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ID: 097

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

**Hardware Setup**

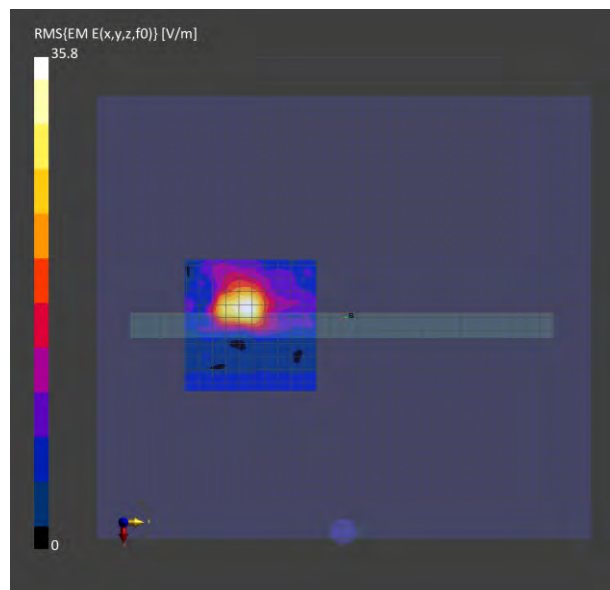
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-05-07, 08:08
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.69
psPDtot+ [W/m <sup>2</sup> ]	1.93
psPDmod+ [W/m <sup>2</sup> ]	2.08
E <sub>max</sub> [V/m]	35.8
Power Drift [dB]	0.13



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ID: 098

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

**Hardware Setup**

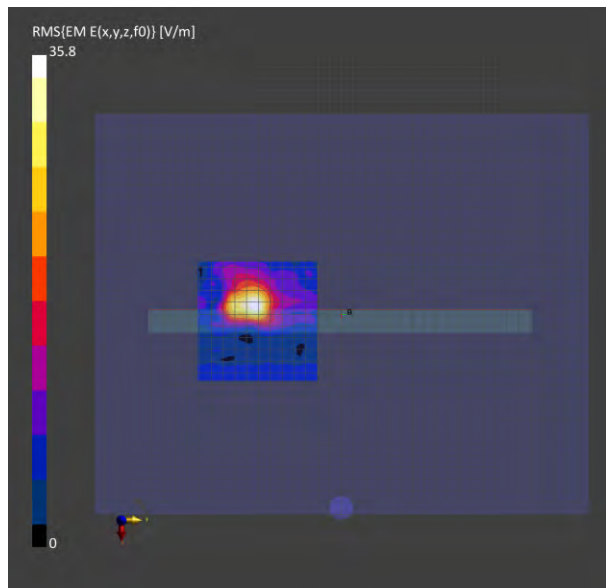
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-05-07, 10:24
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.02
psPDtot+ [W/m <sup>2</sup> ]	2.14
psPDmod+ [W/m <sup>2</sup> ]	2.27
E <sub>max</sub> [V/m]	37.7
Power Drift [dB]	0.13



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ID: 099

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Top Edge, U-NII-8,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 183 (6865.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

## Hardware Setup

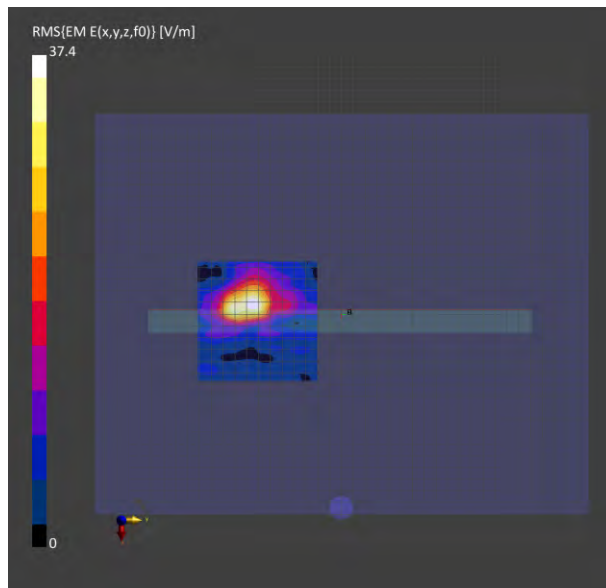
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-07, 12:41
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.00
psPDtot+ [W/m <sup>2</sup> ]	2.18
psPDmod+ [W/m <sup>2</sup> ]	2.28
E <sub>max</sub> [V/m]	37.4
Power Drift [dB]	0.06



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ID: 100

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

## Hardware Setup

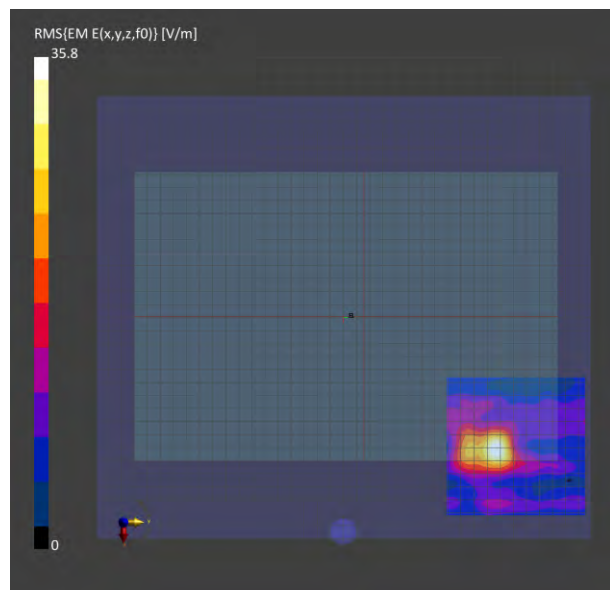
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-07, 15:13
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.48
psPDtot+ [W/m <sup>2</sup> ]	1.61
psPDmod+ [W/m <sup>2</sup> ]	1.78
E <sub>max</sub> [V/m]	35.8
Power Drift [dB]	0.15



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ID: 101

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-5,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

## Hardware Setup

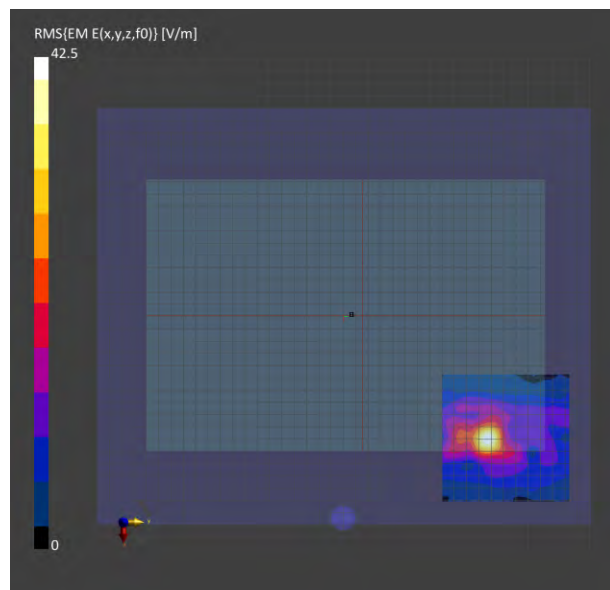
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-07, 17:25
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.52
psPDtot+ [W/m <sup>2</sup> ]	1.84
psPDmod+ [W/m <sup>2</sup> ]	2.21
E <sub>max</sub> [V/m]	42.5
Power Drift [dB]	0.19



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ID: 102

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

**Hardware Setup**

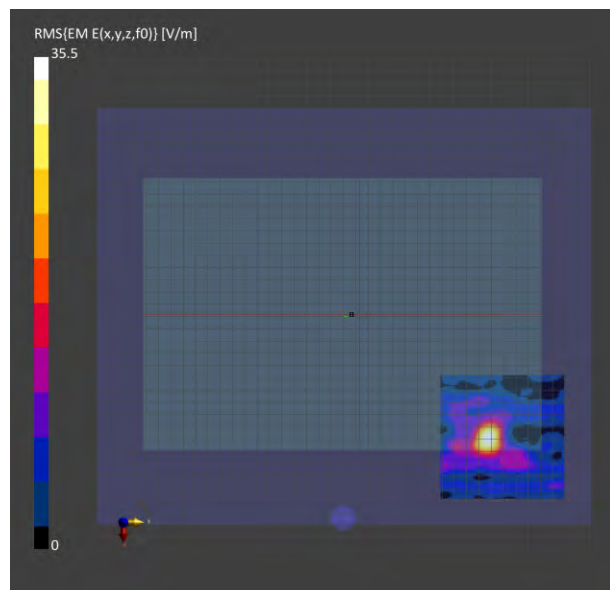
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-05-07, 19:36
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.625
psPDtot+ [W/m <sup>2</sup> ]	0.799
psPDmod+ [W/m <sup>2</sup> ]	1.19
E <sub>max</sub> [V/m]	35.5
Power Drift [dB]	0.16



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ID: 103

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-7,  
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

## Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

## Hardware Setup

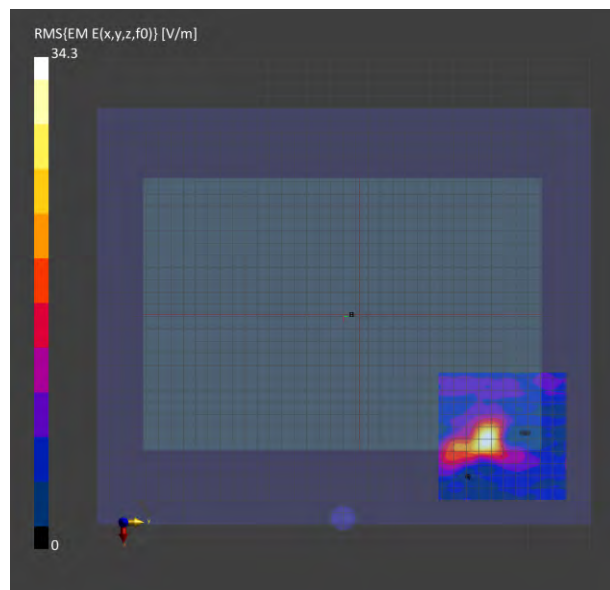
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Date	2022-05-07, 21:42
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.908
psPDtot+ [W/m <sup>2</sup> ]	0.998
psPDmod+ [W/m <sup>2</sup> ]	1.27
E <sub>max</sub> [V/m]	34.3
Power Drift [dB]	-0.06



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ID: 104

Report No. :TESA2204000049EN

Measurement Report for B5402FBA, Back Surface, U-NII-8,  
IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 183 (6865.0 MHz)**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

**Hardware Setup**

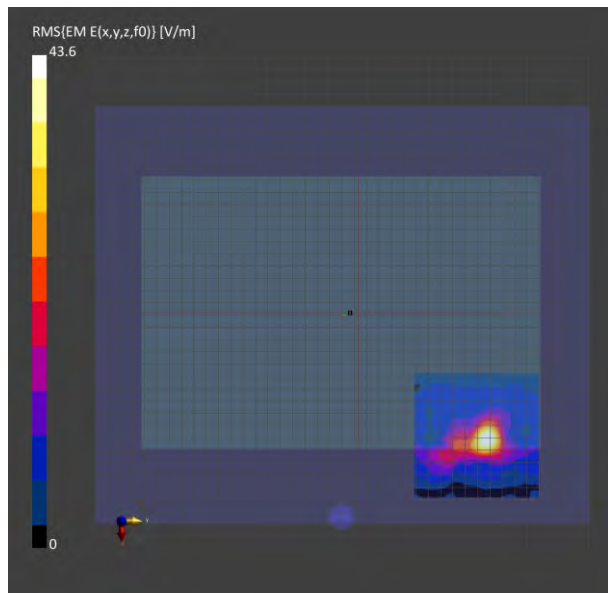
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-05-07, 23:55
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.59
psPDtot+ [W/m <sup>2</sup> ]	1.88
psPDmod+ [W/m <sup>2</sup> ]	2.28
E <sub>max</sub> [V/m]	43.6
Power Drift [dB]	-0.14



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## 14 SAR SYSTEM CHECK RESULTS

Date: 2022/5/4

Report No.: TESA2204000049EN

Dipole 2450 MHz\_SN:835

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 39.372$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2450 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- 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) = 22.3 W/kg

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

Reference Value = 111.2 V/m; Power Drift = -0.19 dB

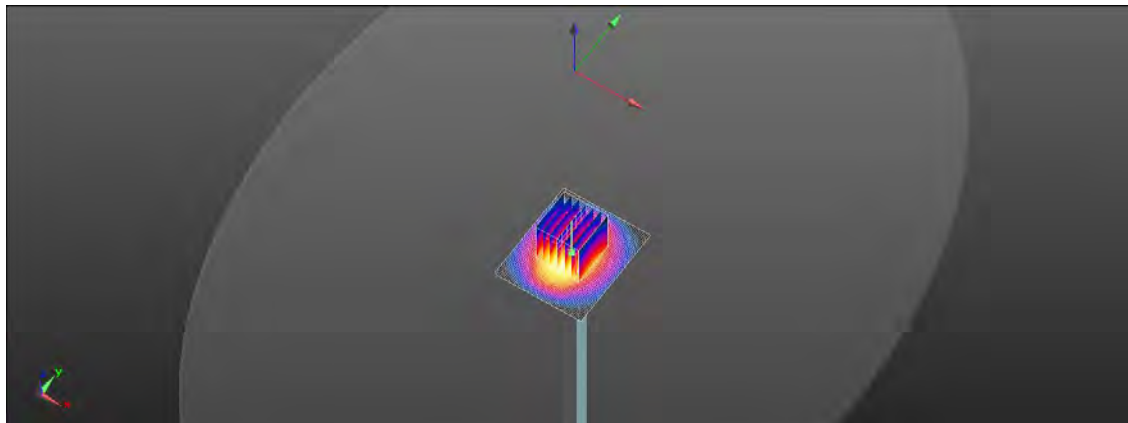
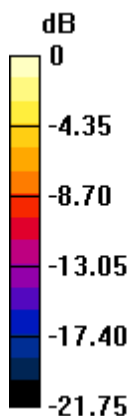
Peak SAR (extrapolated) = 27.7 W/kg

**SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.24 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.7%

Maximum value of SAR (measured) = 20.4 W/kg



0 dB = 20.4 W/kg = 13.10 dBW/kg

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Date: 2022/5/5

Report No. :TESA2204000049EN

Dipole 5250 MHz\_SN:1023

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

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.687$  S/m;  $\epsilon_r = 36.073$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 59.64 V/m; Power Drift = 0.03 dB

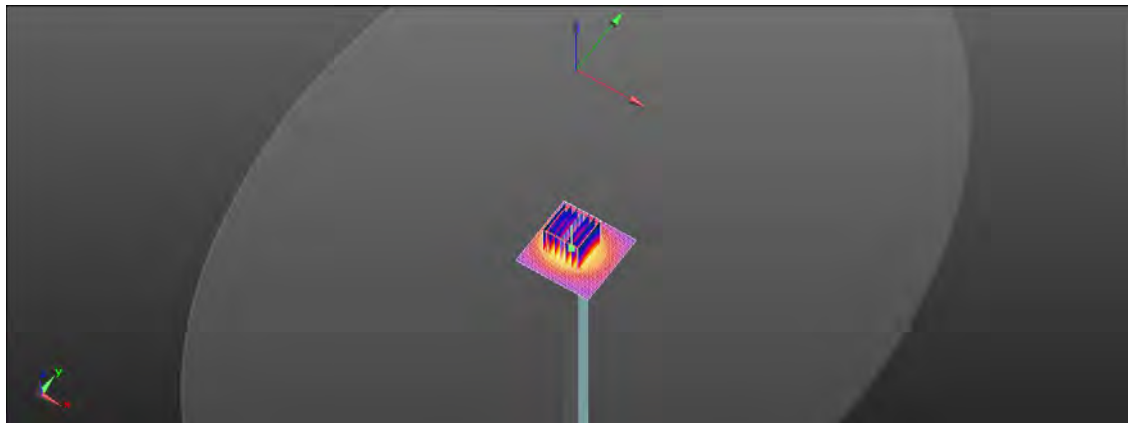
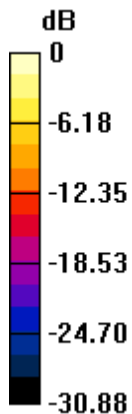
Peak SAR (extrapolated) = 31.1 W/kg

**SAR(1 g) = 7.98 W/kg; SAR(10 g) = 2.24 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

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Date: 2022/5/6

Report No. :TESA2204000049EN

Dipole 5600 MHz\_SN:1023

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

Medium parameters used:  $f = 5600 \text{ MHz}$ ;  $\sigma = 5.114 \text{ S/m}$ ;  $\epsilon_r = 35.523$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5600 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- 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) = 17.8 W/kg

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

Reference Value = 56.13 V/m; Power Drift = 0.07 dB

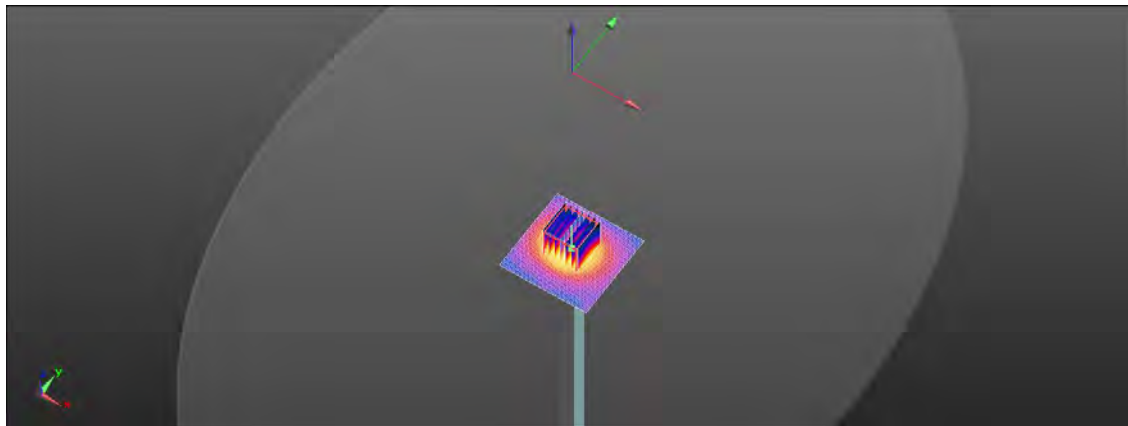
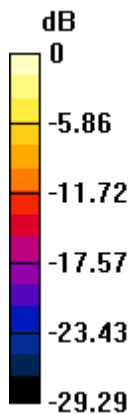
Peak SAR (extrapolated) = 36.4 W/kg

**SAR(1 g) = 8.53 W/kg; SAR(10 g) = 2.43 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 18.0 W/kg



0 dB = 18.0 W/kg = 12.55 dBW/kg

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Date: 2022/5/7

Report No. :TESA2204000049EN

Dipole 5750 MHz\_SN:1023

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

Medium parameters used:  $f = 5750 \text{ MHz}$ ;  $\sigma = 5.282 \text{ S/m}$ ;  $\epsilon_r = 35.157$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5750 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- 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) = 16.2 W/kg

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

Reference Value = 56.45 V/m; Power Drift = -0.13 dB

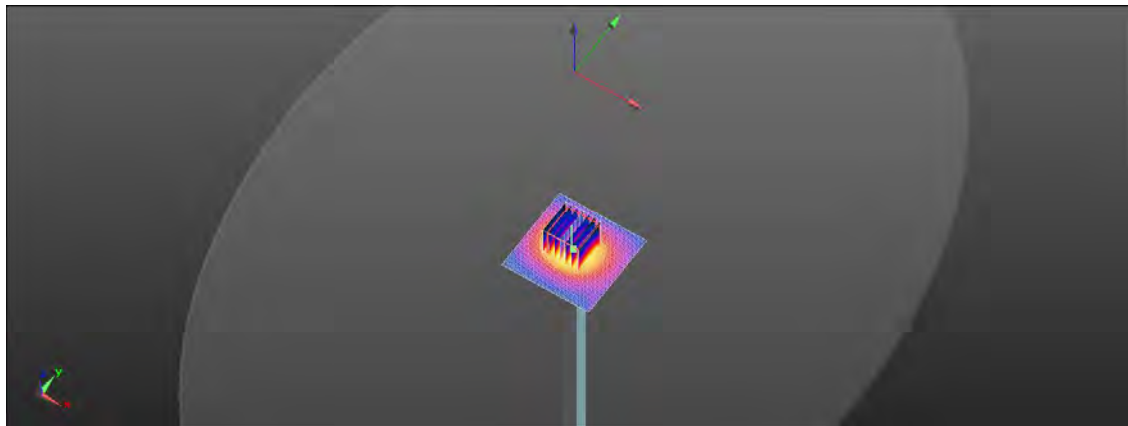
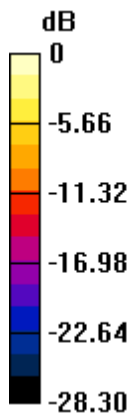
Peak SAR (extrapolated) = 30.9 W/kg

**SAR(1 g) = 8.06 W/kg; SAR(10 g) = 2.26 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 55.6%

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. :TESA2204000049EN

Dipole 6500 MHz\_SN:1006

Measurement Report for Device, FRONT, Validation band,  
CW, Channel 6500 (6500.0 MHz)

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.65	6.21	35.453

**Hardware Setup**

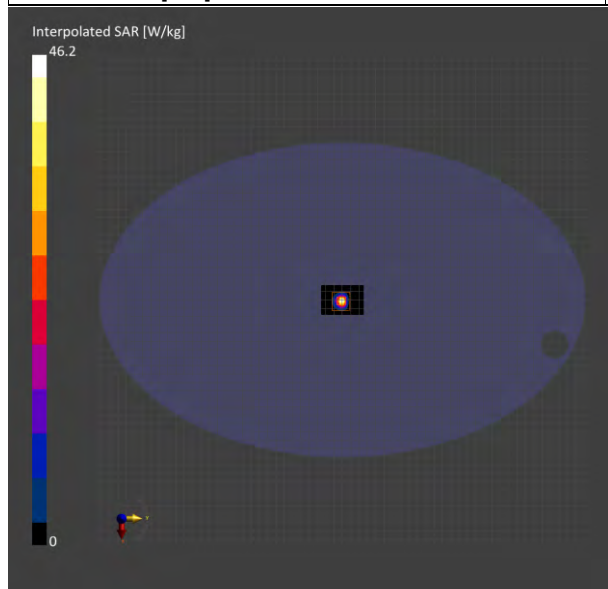
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**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	2022-05-06, 00:26	2022-05-06, 00:36
psSAR1g [W/kg]	25.5	29.2
psSAR8g [W/kg]	6.22	6.63
psSAR10g [W/kg]	5.09	5.43
psPDab (4.0cm2, sq) [W/m2]		133
Power Drift [dB]	0.10	-0.01
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		4.8



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Report No. :TESA2204000049EN

Dipole 6500 MHz\_SN:1006

Measurement Report for Device, FRONT, Validation band,  
CW, Channel 6500 (6500.0 MHz)

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.65	6.242	35.543

**Hardware Setup**

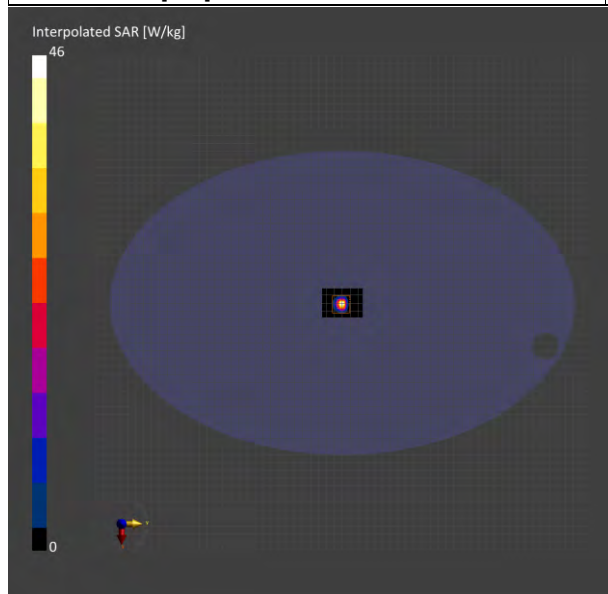
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**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	2022-05-05, 00:21	2022-05-05, 00:31
psSAR1g [W/kg]	25.6	29.4
psSAR8g [W/kg]	6.25	6.65
psSAR10g [W/kg]	5.11	5.45
psPDab (4.0cm2, sq) [W/m2]		134
Power Drift [dB]	0.12	0.11
M2/M1 [%]		53.5
Dist 3dB Peak [mm]		4.9



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Report No. :TESA2204000049EN

Dipole 7000 MHz\_SN:1007

Measurement Report for Device, FRONT, Validation band,  
CW, Channel 7000 (7000.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.2°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.85	6.802	34.808

**Hardware Setup**

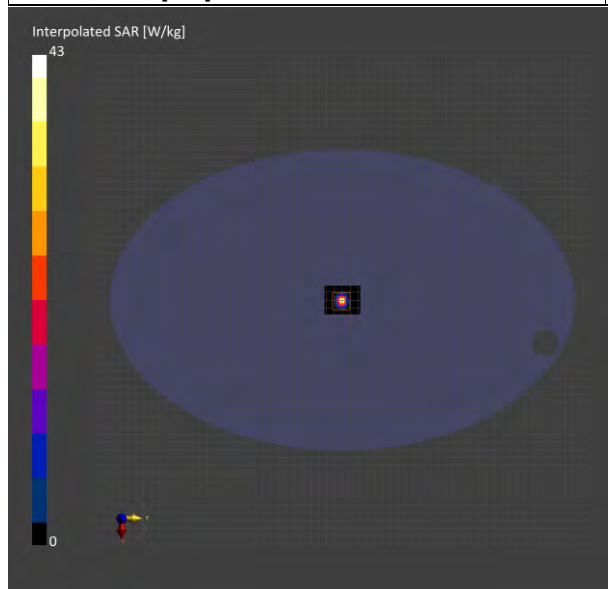
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**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	2022-05-06, 20:21	2022-05-06, 20:31
psSAR1g [W/kg]	23.9	26.6
psSAR8g [W/kg]	5.34	5.62
psSAR10g [W/kg]	4.52	4.63
psPDab (4.0cm2, sq) [W/m2]		120
Power Drift [dB]	0.09	0.08
M2/M1 [%]		49.0
Dist 3dB Peak [mm]		4.6



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Report No. :TESA2204000049EN

Dipole 7000 MHz\_SN:1007

Measurement Report for Device, FRONT, Validation band,  
CW, Channel 7000 (7000.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.2°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.85	6.802	34.808

**Hardware Setup**

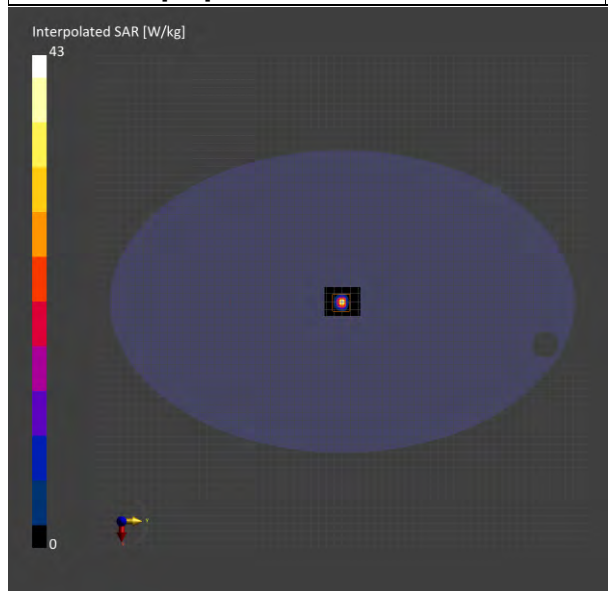
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

**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	2022-05-06, 20:21	2022-05-06, 20:31
psSAR1g [W/kg]	23.9	26.6
psSAR8g [W/kg]	5.34	5.62
psSAR10g [W/kg]	4.52	4.63
psPDab (4.0cm2, sq) [W/m2]		120
Power Drift [dB]	0.09	0.08
M2/M1 [%]		49.0
Dist 3dB Peak [mm]		4.6



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Date: 2023/2/26

Report No. :TESA2302000095EN

Dipole 5750 MHz\_SN:1349

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

Medium parameters used:  $f = 5750 \text{ MHz}$ ;  $\sigma = 5.214 \text{ S/m}$ ;  $\epsilon_r = 35.024$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.45, 5.45, 5.45) @ 5750 MHz; Calibrated: 2022/3/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2022/9/22
- 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) = 15.8 W/kg

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

Reference Value = 55.43 V/m; Power Drift = -0.19 dB

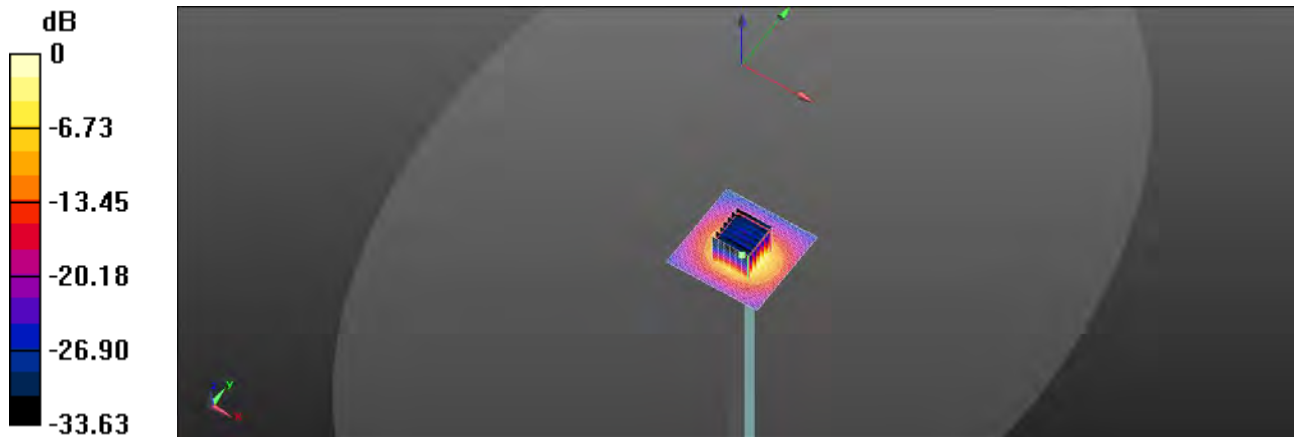
Peak SAR (extrapolated) = 34.2 W/kg

SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.23 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.7%

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



0 dB = 16.4 W/kg = 12.15 dBW/kg

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## 15 PD SYSTEM CHECK RESULTS

Report No. :TESA2204000049EN

Verification Source 10GHz\_SN:1021

Measurement Report for 5G Verification Source 10GHz, FRONT, Validation band,  
CW, Channel 10000 (10000.0 MHz)

### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	FRONT, 10.00	1.0

### Hardware Setup

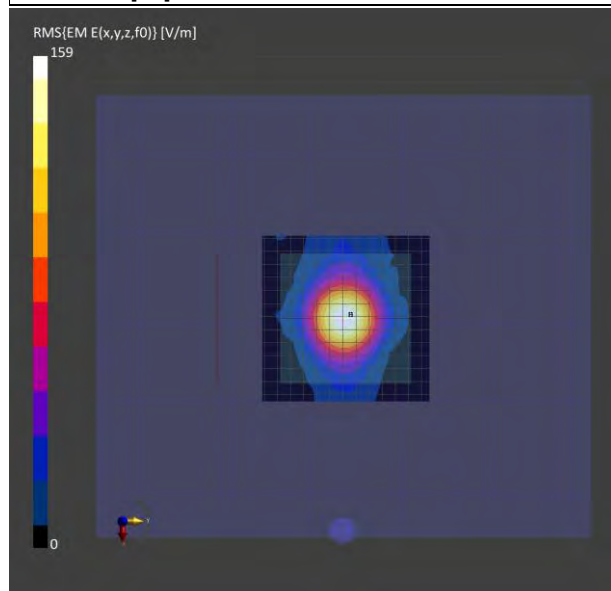
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

### Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

### Measurement Results

Scan Type	5G Scan
Date	2022-05-07, 01:25
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	54.0
psPDtot+ [W/m <sup>2</sup> ]	54.2
psPDmod+ [W/m <sup>2</sup> ]	54.3
E <sub>max</sub> [V/m]	158
Power Drift [dB]	0.03



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

**16.1 SAR\_Appendix A Photographs**

**16.2 SAR\_Appendix B DAE & Probe Cal. Certificate**

**16.3 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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