

RF Exposure report



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

EUT Description	WLAN and BT, 2x2 PCIe M.2 2230 adapter card
Brand Name	Intel® Wi-Fi 6E AX211
Model Name	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	Aug. 05, 2022
Date of Test(s)	Aug. 13, 2022 ~ Aug. 21, 2022
Date of Issue	Oct. 06, 2022

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 / Kimmy Chiou	PM / Afu Chen	Approved By / John Yeh

Date: Oct. 06, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2208000259EN	00	Initial creation of document	Sep. 12, 2022	Kimmy Chiou	*
TESA2208000259EN	01	Modify comment	Sep. 29, 2022	Kimmy Chiou	*
TESA2208000259EN	02	Modify comment	Oct. 06, 2022	Kimmy Chiou	

Note:

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

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1 GENERAL INFORMATION

1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

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

IEC 62479:2010

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1.3 Maximum value

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g Body (W/kg)	Highest APD (W/m ²)	Highest PD (W/m ²)
Bluetooth(GFSK)	0.58	N/A	N/A
2.4G WLAN	1.07	N/A	N/A
5.2G WLAN	1.18	N/A	N/A
5.3G WLAN	1.19	N/A	N/A
5.6G WLAN	1.18	N/A	N/A
5.8G WLAN	1.18	N/A	N/A
6G WLAN	1.1	7.54	5.32

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1.4 Antenna Information

Laptop mode WLAN

Vendor	South Star								
Antenna	WLAM Main								
Part Number	DC33002R400(3.N201.0213)								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.51	2.49	2.43	2.61	2.61	3.87	3.39	3.62	3.62

Vendor	South Star								
Antenna	WLAN Aux								
Part Number	DC33002R410(3.N201.0214)								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.02	2.73	2.84	2.81	2.81	3.74	3.57	3.52	3.91

Tablet mode WLAN

Vendor	South Star								
Antenna	WLAM Main								
Part Number	DC33002R400(3.N201.0213)								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.40	2.81	2.54	2.70	2.70	3.57	3.71	3.74	3.53

Vendor	South Star								
Antenna	WLAN Aux								
Part Number	DC33002R410(3.N201.0214)								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.04	2.29	2.33	2.73	2.38	3.13	3.41	3.44	3.88

Laptop mode WLAN

Vendor	Pulse								
Antenna	WLAM Main								
Part Number	DC33002R300(TZ2379D)								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.71	2.06	1.85	2.46	2.46	2.59	2.64	2.70	2.94

Vendor	Pulse								
Antenna	WLAN Aux								
Part Number	DC33002R310(TZ2379E)								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.01	2.47	2.66	2.58	2.58	3.33	3.54	3.49	3.67

Tablet mode WLAN

Vendor	Pulse								
Antenna	WLAM Main								
Part Number	DC33002R300(TZ2379D)								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.16	2.50	2.31	2.56	2.56	3.31	3.62	3.55	3.30

Vendor	Pulse								
Antenna	WLAN Aux								
Part Number	DC33002R310(TZ2379E)								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.03	2.10	2.05	2.42	2.17	2.85	2.85	2.95	3.65

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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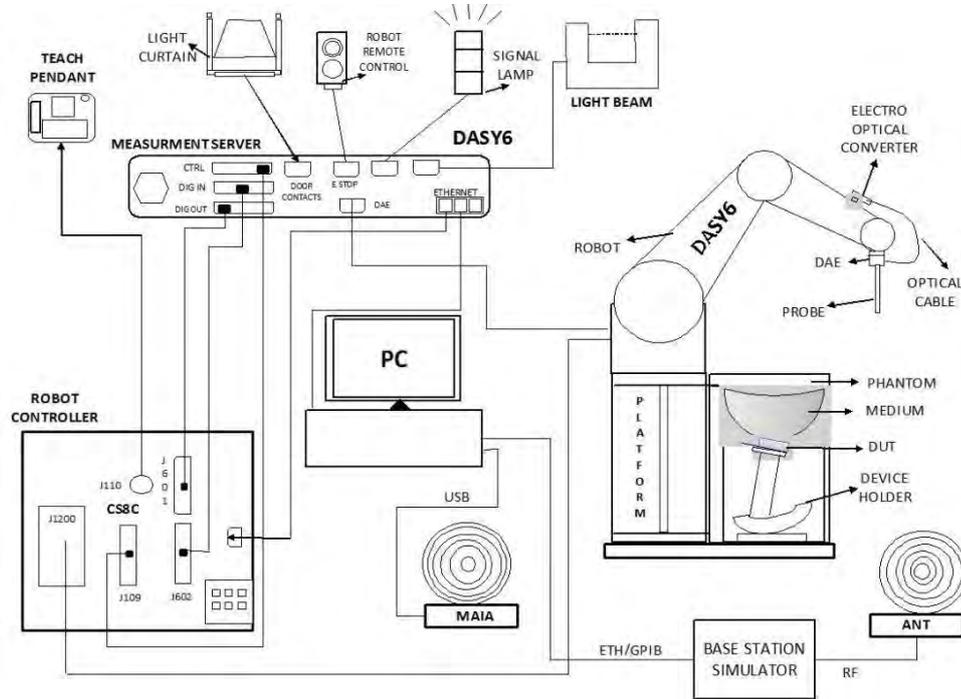
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Block Diagram (DASY6)

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%.	

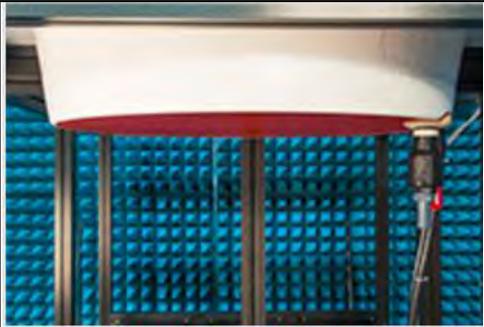
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PHANTOM (ELI)

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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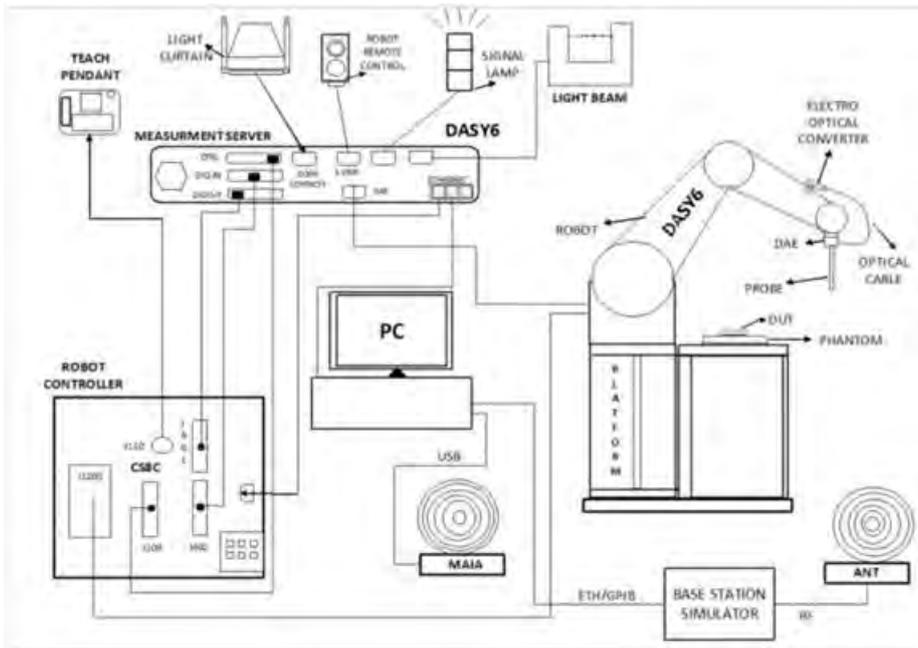
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2.3 PD system

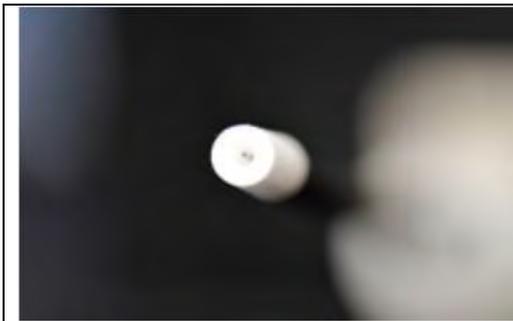
Block Diagram (DASY6)

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.



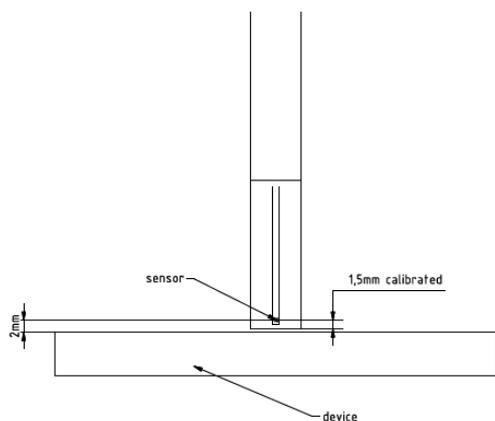
Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/point, 120° rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.

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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 ($\tan \delta$) ≤ 0.05 and a relative permittivity (ϵ_r) ≤ 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

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Aug, 13. 2022	2402	39.282	1.757	39.418	1.692	0.35%	-3.73%
		2412	39.265	1.766	39.396	1.7	0.33%	-3.76%
		2437	39.222	1.788	39.362	1.718	0.36%	-3.94%
		2441	39.215	1.792	39.356	1.722	0.36%	-3.91%
		2450	39.200	1.800	39.344	1.729	0.37%	-3.94%
		2462	39.184	1.813	39.334	1.737	0.38%	-4.18%
		2480	39.160	1.832	39.311	1.751	0.39%	-4.42%
	Aug, 14. 2022	5210	35.990	4.670	35.871	4.632	-0.33%	-0.81%
		5250	35.950	4.710	35.795	4.699	-0.43%	-0.23%
		5290	35.910	4.750	35.685	4.753	-0.63%	0.06%
	Aug, 15. 2022	5210	35.990	4.670	36.118	4.612	0.36%	-1.24%
		5250	35.950	4.710	36.042	4.679	0.26%	-0.66%
		5290	35.910	4.750	35.932	4.733	0.06%	-0.36%
	Aug, 16. 2022	5530	35.605	4.997	35.337	5.056	-0.75%	1.19%
		5570	35.545	5.039	35.236	5.102	-0.87%	1.26%
		5600	35.500	5.070	35.142	5.137	-1.01%	1.32%
		5610	35.490	5.080	35.135	5.151	-1.00%	1.40%
		5690	35.410	5.160	34.931	5.268	-1.35%	2.09%
	Aug, 17. 2022	5530	35.605	4.997	35.584	5.035	-0.06%	0.77%
		5570	35.545	5.039	35.483	5.081	-0.17%	0.84%
		5600	35.500	5.070	35.389	5.116	-0.31%	0.91%
		5610	35.490	5.080	35.382	5.13	-0.30%	0.98%
		5690	35.410	5.160	35.193	5.272	-0.61%	2.17%
	Aug, 18. 2022	5750	35.350	5.220	34.801	5.355	-1.55%	2.59%
		5775	35.325	5.245	34.778	5.389	-1.55%	2.75%
	Aug, 19. 2022	6025	35.070	5.510	34.723	5.632	-0.99%	2.22%
		6185	34.878	5.698	34.54	5.821	-0.97%	2.15%
		6345	34.686	5.887	34.361	6.01	-0.94%	2.09%
		6500	34.500	6.070	34.286	6.193	-0.62%	2.03%
		6505	34.494	6.076	34.278	6.198	-0.63%	2.01%
		6665	34.302	6.261	34.1	6.38	-0.59%	1.89%
		6825	34.110	6.447	33.916	6.563	-0.57%	1.80%
		6865	34.062	6.493	33.865	6.608	-0.58%	1.76%
		6985	33.918	6.633	33.73	6.737	-0.55%	1.57%
		7000	33.900	6.650	33.718	6.751	-0.54%	1.52%

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3.4 The composition of the tissue simulating liquid:

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

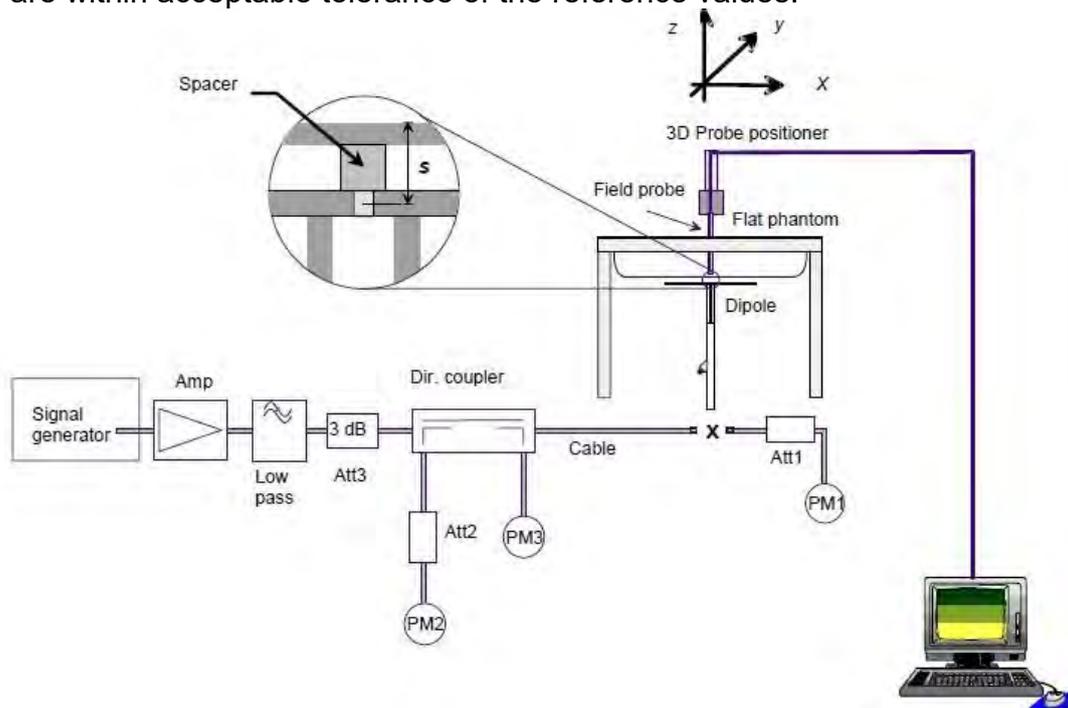
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

3.5 System check

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

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

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



The block diagram of system check

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3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.8	13	52	-1.52	± 10%	Aug.13,2022
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	1023	5250	81	8.1	81	0.00	± 10%	Aug.14,2022
D5GHzV2	1023	5250	81	8.07	80.7	-0.37	± 10%	Aug.15,2022
D5GHzV2	1023	5600	84.4	8.04	80.4	-4.74	± 10%	Aug.16,2022
D5GHzV2	1023	5600	84.4	8.11	81.1	-3.91	± 10%	Aug.17,2022
D5GHzV2	1023	5750	81	7.74	77.4	-4.44	± 10%	Aug.18,2022
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	291	28	280	-3.78	± 10%	Aug.19,2022
D7GHzV2	1007	7000	275	26.4	264	-4.00	± 10%	Aug.19,2022

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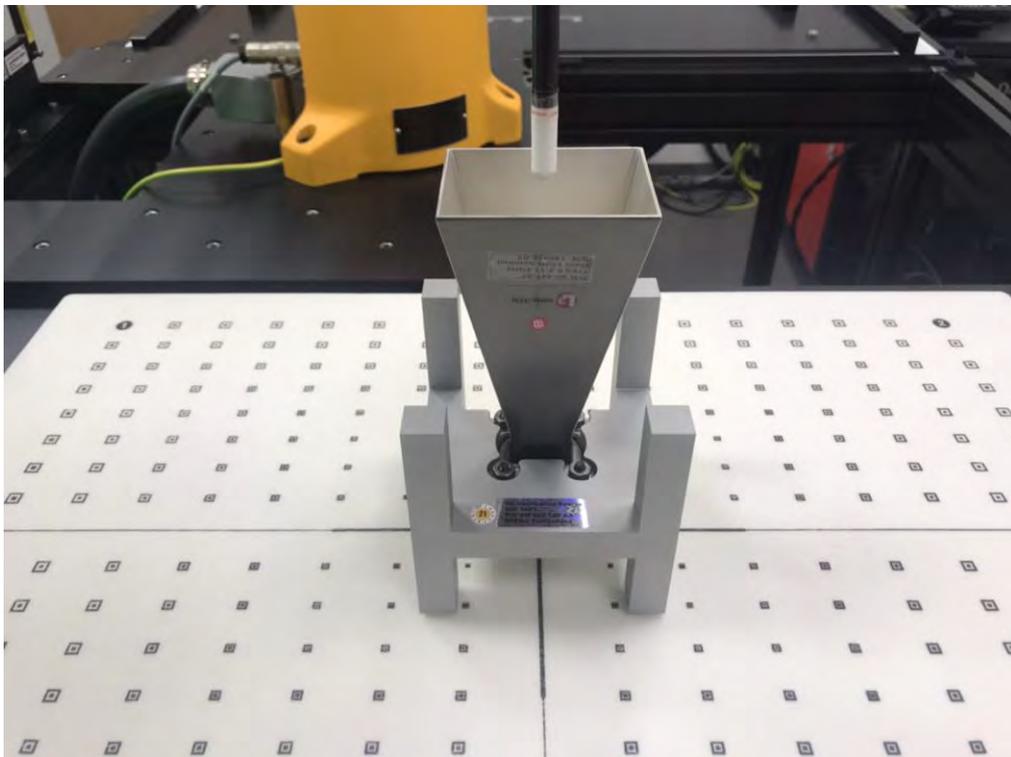
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4 PD SYSTEM VERIFICATION

4.1 System check

The system was verified to be within ± 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 ± 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.

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm ² (W/m ²)	Target 4cm ² (W/m ²)	Deviation (dB)	Date
10000	10000	9579	558	10	86.1	51.6	51.7	-0.01	Aug.20,2022

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5 TEST CONFIGURATIONS

5.1 Test Environment

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

Tissue Simulating Liquid: $22\pm 2^{\circ}$ 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 ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz.
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- **WLAN 2.4GHz:** 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- **WLAN 2.4GHz:** 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- **WLAN 5GHz:** Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration

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

- **WLAN 5GHz:** Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.
- **WLAN 6GHz:** Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209- 1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance). For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.
- **WLAN 6GHz:** Per equipment manufacturer guidance, power density was measured at $d=2$ mm with the grid step (0.0625λ) for determining compliance at $d=2$ mm.
- **WLAN 6GHz:** According to October 2020 TCB Workshop Interim procedures, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.67 dB (85%) was used to determine the psPD measurement scaling factor.
- **WLAN 6GHz:** Per FCC guidance, for simultaneous transmission evaluation, using SAR sum and SPLSR for simultaneous transmit exclusion analyses and evaluations.

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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.

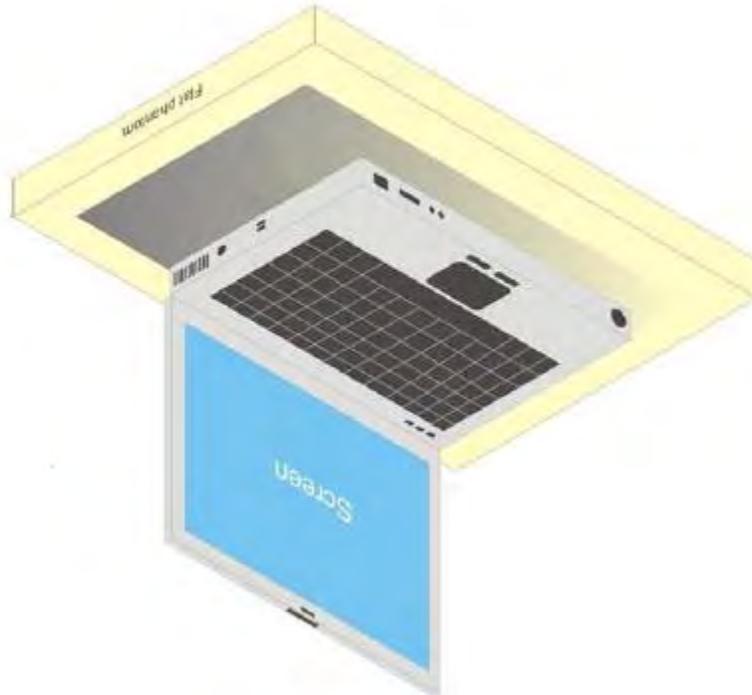


Illustration for Laptop Setup

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

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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.

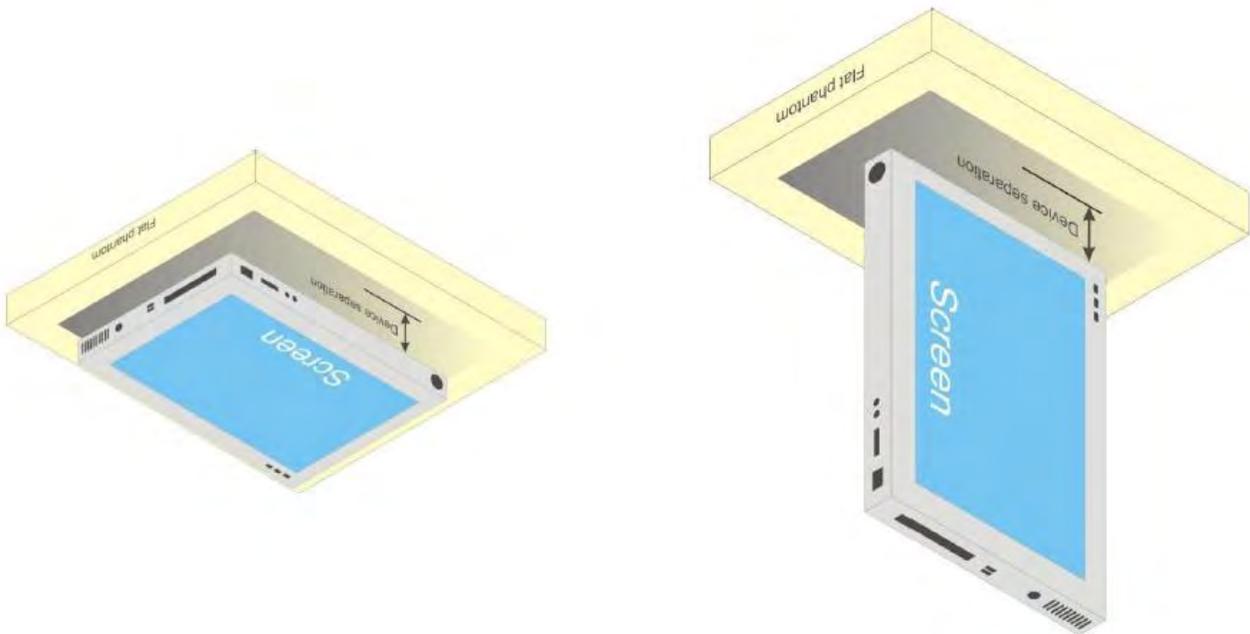


Illustration for Tablet Setup

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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.

Device Mode	Lid Open Angle description Lid Close → Laptop → Tablet	Lid Open Angle description Tablet → Laptop → Lid Close	Mode Reported to OS
Lid Close	0° ≤ Lid angle < 12.5° (GMR Sensor Trigger)	0° ≤ Lid angle < 12.5° (GMR Sensor Trigger)	Standby
Laptop	12.5° ≤ Lid angle < 200° (G-Sensor Trigger)	12.5° ≤ Lid angle < 160° (G-Sensor Trigger)	Notebook
Tablet	200° ≤ Lid angle ≤ 360° (G-Sensor Trigger)	160° ≤ Lid angle ≤ 360° (G-Sensor Trigger)	Non-notebook

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.

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Antenna	Operation mode	Lid angle	802.11b	802.11ac(BOM) 5.2G	802.11ac(BOM) 5.3G	802.11ac(BOM) 5.6G	802.11ac(BOM) 5.8G	U1N6-5 802.11ax(100M)	U1N6-6 802.11ax(100M)	U1N6-7 802.11ax(100M)	U1N6-8 802.11ax(100M)	802.11ax(100M)
Lid close	0°	n/a	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	n/a
	20°	17.42	17.42	17.42	16.96	16.96	13.34	13.48	12.64	9.87	12.64	
	15°	17.41	17.43	17.48	16.94	16.94	13.33	13.41	12.66	9.87	12.64	
	10°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	11°	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	
	13°	17.48	17.47	17.43	16.98	16.93	13.38	13.41	12.64	9.84	12.60	
	14°	17.45	17.44	17.43	16.94	16.97	13.38	13.43	12.64	9.92	12.60	
	15°	17.48	17.45	17.45	16.93	16.98	13.40	13.48	12.66	9.88	12.68	
Laptop	16°	17.46	17.41	17.48	16.95	16.95	13.38	13.48	12.72	9.87	12.61	
	17°	17.48	17.48	17.47	16.88	16.98	13.41	13.42	12.63	9.89	12.61	
	18°	17.46	17.40	17.45	16.97	16.96	13.43	13.39	12.62	9.88	12.61	
	19°	17.49	17.43	17.42	16.98	16.95	13.42	13.44	12.72	9.93	12.66	
	20°	17.49	17.41	17.46	16.92	16.92	13.35	13.40	12.71	9.86	12.59	
	30°	17.42	17.44	17.39	16.92	16.89	13.41	13.48	12.70	9.88	12.63	
	40°	17.45	17.40	17.48	16.99	16.99	13.38	13.48	12.78	9.95	12.67	
	50°	17.49	17.49	17.45	16.93	16.96	13.39	13.48	12.65	9.88	12.60	
	60°	17.49	17.40	17.41	16.96	16.92	13.41	13.40	12.66	9.94	12.62	
	70°	17.40	17.40	17.48	16.95	16.97	13.40	13.44	12.63	9.85	12.60	
Table	80°	17.45	17.40	17.42	16.97	16.97	13.39	13.44	12.62	9.92	12.62	
	90°	17.41	17.45	17.43	16.95	16.92	13.38	13.40	12.64	9.94	12.59	
	100°	17.42	17.40	17.47	16.92	16.96	13.43	13.48	12.68	9.94	12.66	
	110°	17.39	17.48	17.43	16.90	16.90	13.36	13.46	12.70	9.88	12.57	
	120°	17.44	17.49	17.44	16.89	16.92	13.39	13.43	12.72	9.93	12.63	
	130°	17.47	17.48	17.44	16.94	16.96	13.36	13.40	12.72	9.85	12.66	
	140°	17.48	17.48	17.45	16.90	16.90	13.34	13.40	12.71	9.92	12.63	
	150°	17.45	17.40	17.38	16.88	16.91	13.34	13.42	12.62	9.87	12.58	
	160°	17.45	17.47	17.47	16.90	16.97	13.42	13.40	12.62	9.90	12.68	
	170°	17.49	17.49	17.49	16.93	16.93	13.42	13.48	12.67	9.90	12.67	
Laptop	180°	17.40	17.41	17.45	16.92	16.97	13.43	13.42	12.64	9.93	12.57	
	170°	17.39	17.41	17.41	16.91	16.99	13.37	13.40	12.71	9.86	12.66	
	200°	13.39	11.94	11.99	11.42	11.89	11.30	11.49	11.49	9.92	8.45	
	195°	17.41	17.47	17.46	16.98	16.93	13.37	13.45	12.62	9.95	12.60	
	190°	17.47	17.49	17.48	16.89	16.97	13.40	13.46	12.65	9.94	12.56	
	187°	17.41	17.44	17.42	16.92	16.90	13.37	13.46	12.63	9.93	12.59	
	188°	17.43	17.39	17.42	16.98	16.98	13.42	13.49	12.65	9.85	12.61	
	189°	17.45	17.41	17.41	16.89	16.95	13.45	13.46	12.65	9.89	12.66	
	200°	13.42	11.97	11.97	11.39	11.89	11.36	11.56	11.49	9.87	8.47	
	201°	13.40	11.90	11.91	11.41	11.40	11.53	11.34	11.39	9.92	8.46	
Table	202°	13.39	11.92	11.93	11.43	11.89	11.36	11.43	11.49	9.90	8.40	
	203°	13.39	11.97	11.93	11.40	11.96	11.32	11.52	11.47	9.92	8.41	
	204°	13.43	11.90	11.95	11.41	11.41	11.96	11.40	11.49	9.90	8.42	
	205°	13.40	11.94	11.94	11.48	11.44	11.94	11.48	11.47	9.89	8.38	
	206°	13.48	11.88	11.91	11.47	11.47	11.94	11.40	11.42	9.88	8.42	
	207°	13.42	11.89	11.96	11.48	11.41	11.97	11.32	11.45	9.85	8.46	
	208°	13.43	11.91	11.91	11.40	11.41	11.93	11.40	11.49	9.87	8.43	
	209°	13.41	11.89	11.98	11.48	11.48	11.92	11.40	11.40	9.88	8.48	
	210°	13.47	11.91	11.96	11.42	11.42	11.95	11.35	11.42	9.89	8.41	
	211°	13.41	11.94	11.94	11.44	11.44	11.94	11.38	11.42	9.92	8.46	
Laptop	212°	13.38	11.96	11.97	11.45	11.94	11.36	11.45	11.46	9.86	8.36	
	213°	13.48	11.97	11.91	11.46	11.46	11.96	11.36	11.44	9.89	8.39	
	214°	13.45	11.95	11.95	11.45	11.45	11.95	11.39	11.43	9.84	8.34	
	215°	13.45	11.89	11.91	11.45	11.46	11.93	11.36	11.48	9.86	8.43	
	216°	13.46	11.90	11.90	11.45	11.45	11.98	11.37	11.48	9.82	8.42	
	217°	13.39	11.94	11.96	11.43	11.48	11.92	11.37	11.41	9.85	8.45	
	218°	13.40	11.93	11.92	11.41	11.41	11.97	11.37	11.47	9.82	8.45	
	219°	13.44	11.96	11.98	11.45	11.42	11.88	11.40	11.46	9.91	8.41	
	220°	13.44	11.94	11.94	11.42	11.41	11.91	11.42	11.51	9.89	8.47	
	221°	13.47	11.94	11.89	11.44	11.44	11.97	11.41	11.41	9.86	8.39	
Table	222°	13.45	11.95	11.96	11.47	11.47	11.99	11.30	11.46	9.91	8.38	
	223°	13.47	11.97	11.97	11.42	11.42	11.92	11.34	11.42	9.91	8.41	
	224°	13.48	11.90	11.98	11.46	11.46	11.94	11.36	11.41	9.86	8.44	
	225°	13.39	11.96	11.95	11.47	11.43	11.89	11.32	11.42	9.89	8.48	
	226°	13.45	11.96	11.95	11.47	11.47	11.89	11.32	11.42	9.89	8.48	
	227°	13.45	11.94	11.94	11.46	11.46	11.92	11.39	11.42	9.86	8.40	
	228°	13.38	11.94	11.98	11.45	11.45	11.89	11.36	11.42	9.90	8.45	
	229°	13.46	11.97	11.88	11.46	11.46	11.96	11.36	11.44	9.89	8.39	
	230°	13.45	11.95	11.94	11.46	11.46	11.97	11.36	11.40	9.82	8.43	
	231°	13.39	11.93	11.94	11.46	11.46	11.91	11.40	11.40	9.86	8.43	
Laptop	232°	13.45	11.89	11.91	11.45	11.46	11.93	11.36	11.48	9.86	8.43	
	233°	13.46	11.90	11.90	11.45	11.45	11.98	11.37	11.48	9.82	8.42	
	234°	13.39	11.94	11.96	11.43	11.48	11.92	11.37	11.41	9.85	8.45	
	235°	13.40	11.93	11.92	11.41	11.41	11.97	11.37	11.47	9.82	8.45	
	236°	13.44	11.96	11.98	11.45	11.42	11.88	11.40	11.46	9.91	8.41	
	237°	13.44	11.94	11.94	11.42	11.41	11.91	11.42	11.51	9.89	8.47	
	238°	13.47	11.94	11.89	11.44	11.44	11.97	11.41	11.41	9.86	8.39	
	239°	13.45	11.95	11.96	11.47	11.43	11.89	11.32	11.42	9.89	8.48	
	240°	13.45	11.96	11.95	11.47	11.47	11.89	11.32	11.42	9.89	8.48	
	241°	13.45	11.94	11.94	11.46	11.46	11.92	11.39	11.42	9.86	8.40	
Table	242°	13.38	11.94	11.98	11.45	11.45	11.89	11.36	11.42	9.90	8.45	
	243°	13.46	11.97	11.88	11.46	11.46	11.96	11.36	11.44	9.89	8.39	
	244°	13.45	11.95	11.94	11.46	11.46	11.97	11.36	11.40	9.82	8.43	
	245°	13.39	11.93	11.94	11.46	11.46	11.91	11.40	11.40	9.86	8.43	
	246°	13.45	11.89	11.91	11.45	11.46	11.93	11.36	11.48	9.86	8.43	
	247°	13.46	11.90	11.90	11.45	11.45	11.98	11.37	11.48	9.82	8.42	
	248°	13.39	11.94	11.96	11.43	11.48	11.92	11.37	11.41	9.85	8.45	
	249°	13.40	11.93	11.92	11.41	11.41	11.97	11.37	11.47	9.82	8.45	
	250°	13.44	11.96	11.98	11.45	11.42	11.88	11.40	11.46	9.91	8.41	
	251°	13.44	11.94	11.94	11.42	11.41	11.91	11.42	11.51	9.89	8.47	
Laptop	252°	13.47	11.94	11.89	11.44	11.44	11.97	11.41	11.41	9.86	8.39	
	253°	13.45	11.95	11.96	11.47	11.43	11.89	11.32	11.42	9.89	8.48	
	254°	13.45	11.96	11.95	11.47	11.47	11.89	11.32	11.42	9.89	8.48	
	255°	13.45	11.94	11.94	11.46	11.46	11.92	11.39	11.42	9.86	8.40	
	256°	13.38	11.94	11.98	11.45	11.45	11.89	11.36	11.42	9.90	8.45	
	257°	13.46	11.97	11.88	11.46	11.46	11.96	11.36	11.44	9.89	8.39	
	258°	13.45	11.95	11.94	11.46	11.46	11.97	11.36	11.40	9.82	8.43	
	259°	13.39	11.93	11.94	11.46	11.46	11.91	11.40	11.40	9.86	8.43	
	260°	13.45	11.89	11.91	11.45	11.46	11.93	11.36	11.48	9.86	8.43	
	261°	13.46	11.90	11.90	11.45	11.45	11.98	11.37	11.48	9.82	8.42	
Table	262°	13.39	11.94	11.96	11.43	11.48	11.92	11.37	11.41	9.85	8.45	
	263°	13.40	11.93	11.92	11.41	11.41	11.97	11.37	11.47	9.82	8.45	
	264°	13.44	11.96	11.98	11.45	11.42	11.88	11.40	11.46	9.91	8.41	
	265°	13.44	11.94	11.94	11.42	11.41	11.91	11.42	11.51	9.89	8.47	
	266°	13.47	11.94	11.89	11.44	11.44	11.97	11.41	11.41	9.86	8.39	
	267°	13.45	11.95	11.96	11.47	11.43	11.89	11.32	11.42	9.89	8.48	
	268°	13.45	11.96	11.95	11.47	11.47	11.89	11.32	11.42	9.89	8.48	
	269°	13.45	11.94	11.94	11.46							

5.5 Test limit

[§ 2.1093\(d\)\(1\)](#)

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

Radiofrequency radiation exposure limits.

[§ 1.1310\(a\)](#)

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

[§ 1.1310\(b\)](#)

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

[§ 1.1310\(c\)](#)

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

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in [Section 4.2](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those

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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 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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(i) Limits for Occupational/Controlled Exposure

0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6

(ii) Limits for General Population/Uncontrolled Exposure

0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

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

Table 1 to [§ 1.1310\(e\)\(1\)](#) - Limits for Maximum Permissible Exposure (MPE)

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6 MAXIMUM OUTPUT POWER

6.1 WLAN

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	16.50	16.40
		6	2437		16.50	16.49
		11	2462		16.50	16.48
	802.11g	1	2412	6Mbps	16.50	16.39
		6	2437		16.50	16.45
		11	2462		16.50	16.41
	802.11n20-HT0	1	2412	MCS0	16.50	16.42
		6	2437		16.50	16.39
		11	2462		16.50	16.46
	802.11ax20-HE0	1	2412	MCS0	16.50	16.43
		6	2437		16.50	16.48
		11	2462		16.50	16.43
	802.11n40-HT0	3	2422	MCS0	16.00	15.95
		6	2437		16.50	16.39
		9	2452		16.50	16.48
	802.11ax40-HE0	3	2422	MCS0	16.00	15.94
		6	2437		16.50	16.48
		9	2452		16.50	16.41

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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	15.50	15.39
		40	5200		15.50	15.42
		44	5220		15.50	15.44
		48	5240		15.50	15.40
	802.11n20-HT0	36	5180	MCS0	15.50	15.47
		40	5200		15.50	15.36
		44	5220		15.50	15.47
		48	5240		15.50	15.42
	802.11ax20-HE0	36	5180	MCS0	15.50	15.48
		40	5200		15.50	15.42
		44	5220		15.50	15.37
		48	5240		15.50	15.40
	802.11n40-HT0	38	5190	MCS0	15.50	15.43
		46	5230		15.50	15.39
	802.11ax40-HE0	38	5190	MCS0	15.50	15.38
		46	5230		15.50	15.43
802.11ac80-VHT0	42	5210	MCS0	15.50	15.49	
802.11ax80-HE0	42	5210	MCS0	15.50	15.42	
802.11ac160-VHT0	50	5250	MCS0	14.75	14.69	
802.11ax160-HE0	50	5250	MCS0	14.75	14.64	

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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	15.50	15.37
		56	5280		15.50	15.44
		60	5300		15.50	15.48
		64	5320		15.50	15.42
	802.11n20-HT0	52	5260	MCS0	15.50	15.44
		56	5280		15.50	15.41
		60	5300		15.50	15.45
		64	5320		15.50	15.41
	802.11ax20-HE0	52	5260	MCS0	15.50	15.37
		56	5280		15.50	15.42
		60	5300		15.50	15.41
		64	5320		15.50	15.38
	802.11n40-HT0	54	5270	MCS0	15.50	15.36
		62	5310		15.50	15.42
	802.11ax40-HE0	54	5270	MCS0	15.50	15.40
		62	5310		15.50	15.43
802.11ac80-VHT0	58	5290	MCS0	15.50	15.49	
802.11ax80-HE0	58	5290	MCS0	15.50	15.46	

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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	14.91
		120	5600		15.00	14.92
		140	5700		15.00	14.90
		144	5720		15.00	14.98
	802.11n20-HT0	100	5500	MCS0	15.00	14.94
		120	5600		15.00	14.98
		140	5700		15.00	14.89
		144	5720		15.00	14.92
	802.11ax20-HE0	100	5500	MCS0	15.00	14.93
		120	5600		15.00	14.97
		140	5700		15.00	14.96
		144	5720		15.00	14.92
	802.11n40-HT0	102	5510	MCS0	15.00	14.95
		118	5590		15.00	14.96
		134	5670		15.00	14.98
		142	5710		15.00	14.92
	802.11ax40-HE0	102	5510	MCS0	15.00	14.90
		118	5590		15.00	14.93
		134	5670		15.00	14.91
		142	5710		15.00	14.94
	802.11ac80-VHT0	106	5530	MCS0	15.00	14.97
		122	5610		15.00	14.95
		138	5690		15.00	14.99
	802.11ax80-HE0	106	5530	MCS0	15.00	14.91
122		5610	15.00		14.92	
138		5690	15.00		14.95	
802.11ac160-VHT0	114	5570	MCS0	15.00	14.99	
802.11ax160-HE0	114	5570	MCS0	15.00	14.94	

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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	15.50	15.45
		157	5785		15.50	15.42
		165	5825		15.50	15.41
	802.11n20-HT0	149	5745	MCS0	15.50	15.46
		157	5785		15.50	15.48
		165	5825		15.50	15.46
	802.11ax20-HE0	149	5745	MCS0	15.50	15.40
		157	5785		15.50	15.43
		165	5825		15.50	15.43
	802.11n40-HT0	151	5755	MCS0	15.50	15.45
		159	5795		15.50	15.39
	802.11ax40-HE0	151	5755	MCS0	15.50	15.39
		159	5795		15.50	15.47
	802.11ac80-VHT0	155	5775	MCS0	15.50	15.49
	802.11ax80-HE0	155	5775	MCS0	15.50	15.44

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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	17.50	17.48
		6	2437		17.50	17.49
		11	2462		17.50	17.44
	802.11g	1	2412	6Mbps	17.50	17.46
		6	2437		17.50	17.41
		11	2462		17.50	17.40
	802.11n20-HT0	1	2412	MCS0	17.50	17.42
		6	2437		17.50	17.39
		11	2462		17.50	17.48
	802.11ax20-HE0	1	2412	MCS0	17.50	17.47
		6	2437		17.50	17.40
		11	2462		17.50	17.44
	802.11n40-HT0	3	2422	MCS0	15.75	15.67
		6	2437		17.50	17.42
		9	2452		15.50	15.45
	802.11ax40-HE0	3	2422	MCS0	15.75	15.65
		6	2437		17.50	17.42
		9	2452		15.50	15.41

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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	17.40
		40	5200		17.50	17.42
		44	5220		17.50	17.38
		48	5240		17.50	17.47
	802.11n20-HT0	36	5180	MCS0	17.50	17.46
		40	5200		17.50	17.41
		44	5220		17.50	17.46
		48	5240		17.50	17.38
	802.11ax20-HE0	36	5180	MCS0	17.50	17.39
		40	5200		17.50	17.41
		44	5220		17.50	17.44
		48	5240		17.50	17.44
	802.11n40-HT0	38	5190	MCS0	17.50	17.39
		46	5230		17.50	17.38
	802.11ax40-HE0	38	5190	MCS0	17.50	17.38
		46	5230		17.50	17.43
802.11ac80-VHT0	42	5210	MCS0	17.50	17.49	
802.11ax80-HE0	42	5210	MCS0	17.50	17.46	
802.11ac160-VHT0	50	5250	MCS0	15.50	15.47	
802.11ax160-HE0	50	5250	MCS0	15.50	15.44	

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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	17.47
		56	5280		17.50	17.39
		60	5300		17.50	17.38
		64	5320		17.50	17.42
	802.11n20-HT0	52	5260	MCS0	17.50	17.38
		56	5280		17.50	17.42
		60	5300		17.50	17.46
		64	5320		17.50	17.41
	802.11ax20-HE0	52	5260	MCS0	17.50	17.44
		56	5280		17.50	17.43
		60	5300		17.50	17.39
		64	5320		17.50	17.39
	802.11n40-HT0	54	5270	MCS0	17.50	17.44
		62	5310		17.50	17.41
	802.11ax40-HE0	54	5270	MCS0	17.50	17.47
		62	5310		17.50	17.46
802.11ac80-VHT0	58	5290	MCS0	17.50	17.48	
802.11ax80-HE0	58	5290	MCS0	17.50	17.40	

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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	17.00	16.90
		120	5600		17.00	16.88
		140	5700		17.00	16.97
		144	5720		17.00	16.89
	802.11n20-HT0	100	5500	MCS0	17.00	16.90
		120	5600		17.00	16.91
		140	5700		17.00	16.94
		144	5720		17.00	16.92
	802.11ax20-HE0	100	5500	MCS0	17.00	16.91
		120	5600		17.00	16.88
		140	5700		17.00	16.97
		144	5720		17.00	16.96
	802.11n40-HT0	102	5510	MCS0	17.00	16.95
		118	5590		17.00	16.93
		134	5670		17.00	16.90
		142	5710		17.00	16.89
	802.11ax40-HE0	102	5510	MCS0	17.00	16.96
		118	5590		17.00	16.95
		134	5670		17.00	16.93
		142	5710		17.00	16.88
	802.11ac80-VHT0	106	5530	MCS0	17.00	16.97
		122	5610		17.00	16.95
		138	5690		17.00	16.98
	802.11ax80-HE0	106	5530	MCS0	17.00	16.96
122		5610	17.00		16.95	
138		5690	17.00		16.97	
802.11ac160-VHT0	114	5570	MCS0	15.75	15.63	
802.11ax160-HE0	114	5570	MCS0	15.75	15.68	

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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	17.00	16.91
		157	5785		17.00	16.93
		165	5825		17.00	16.94
	802.11n20-HT0	149	5745	MCS0	17.00	16.96
		157	5785		17.00	16.89
		165	5825		17.00	16.82
	802.11ax20-HE0	149	5745	MCS0	17.00	16.89
		157	5785		17.00	16.91
		165	5825		17.00	16.90
	802.11n40-HT0	151	5755	MCS0	17.00	16.91
		159	5795		17.00	16.95
	802.11ax40-HE0	151	5755	MCS0	17.00	16.94
		159	5795		17.00	16.93
	802.11ac80-VHT0	155	5775	MCS0	17.00	16.99
	802.11ax80-HE0	155	5775	MCS0	17.00	16.91

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Tablet 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	13.00	12.91
		6	2437		13.00	12.99
		11	2462		13.00	12.95
	802.11g	1	2412	6Mbps	13.00	12.93
		6	2437		13.00	12.95
		11	2462		13.00	12.90
	802.11n20-HT0	1	2412	MCS0	13.00	12.94
		6	2437		13.00	12.91
		11	2462		13.00	12.96
	802.11ax20-HE0	1	2412	MCS0	13.00	12.89
		6	2437		13.00	12.88
		11	2462		13.00	12.89
	802.11n40-HT0	3	2422	MCS0	13.00	12.92
		6	2437		13.00	12.96
		9	2452		13.00	12.88
	802.11ax40-HE0	3	2422	MCS0	13.00	12.94
		6	2437		13.00	12.95
		9	2452		13.00	12.91

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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	11.50	11.45
		40	5200		11.50	11.40
		44	5220		11.50	11.46
		48	5240		11.50	11.38
	802.11n20-HT0	36	5180	MCS0	11.50	11.44
		40	5200		11.50	11.39
		44	5220		11.50	11.46
		48	5240		11.50	11.42
	802.11ax20-HE0	36	5180	MCS0	11.50	11.41
		40	5200		11.50	11.37
		44	5220		11.50	11.41
		48	5240		11.50	11.39
	802.11n40-HT0	38	5190	MCS0	11.50	11.43
		46	5230		11.50	11.39
	802.11ax40-HE0	38	5190	MCS0	11.50	11.38
		46	5230		11.50	11.44
802.11ac80-VHT0	42	5210	MCS0	11.50	11.45	
802.11ax80-HE0	42	5210	MCS0	11.50	11.40	
802.11ac160-VHT0	50	5250	MCS0	11.50	11.48	
802.11ax160-HE0	50	5250	MCS0	11.50	11.47	

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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	11.50	11.34
		56	5280		11.50	11.42
		60	5300		11.50	11.44
		64	5320		11.50	11.41
	802.11n20-HT0	52	5260	MCS0	11.50	11.47
		56	5280		11.50	11.40
		60	5300		11.50	11.36
		64	5320		11.50	11.43
	802.11ax20-HE0	52	5260	MCS0	11.50	11.38
		56	5280		11.50	11.42
		60	5300		11.50	11.44
		64	5320		11.50	11.39
	802.11n40-HT0	54	5270	MCS0	11.50	11.39
		62	5310		11.50	11.43
	802.11ax40-HE0	54	5270	MCS0	11.50	11.38
		62	5310		11.50	11.45
802.11ac80-VHT0	58	5290	MCS0	11.50	11.49	
802.11ax80-HE0	58	5290	MCS0	11.50	11.36	

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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	10.50	10.42
		120	5600		10.50	10.46
		140	5700		10.50	10.43
		144	5720		10.50	10.44
	802.11n20-HT0	100	5500	MCS0	10.50	10.38
		120	5600		10.50	10.38
		140	5700		10.50	10.46
		144	5720		10.50	10.43
	802.11ax20-HE0	100	5500	MCS0	10.50	10.41
		120	5600		10.50	10.38
		140	5700		10.50	10.46
		144	5720		10.50	10.44
	802.11n40-HT0	102	5510	MCS0	10.50	10.45
		118	5590		10.50	10.46
		134	5670		10.50	10.43
		142	5710		10.50	10.40
	802.11ax40-HE0	102	5510	MCS0	10.50	10.42
		118	5590		10.50	10.45
		134	5670		10.50	10.43
		142	5710		10.50	10.38
	802.11ac80-VHT0	106	5530	MCS0	10.50	10.48
		122	5610		10.50	10.43
		138	5690		10.50	10.49
	802.11ax80-HE0	106	5530	MCS0	10.50	10.38
		122	5610		10.50	10.44
		138	5690		10.50	10.46
	802.11ac160-VHT0	114	5570	MCS0	10.50	10.47
	802.11ax160-HE0	114	5570	MCS0	10.50	10.43

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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	11.00	10.93
		157	5785		11.00	10.90
		165	5825		11.00	10.95
	802.11n20-HT0	149	5745	MCS0	11.00	10.93
		157	5785		11.00	10.92
		165	5825		11.00	10.90
	802.11ax20-HE0	149	5745	MCS0	11.00	10.93
		157	5785		11.00	10.92
		165	5825		11.00	10.95
	802.11n40-HT0	151	5755	MCS0	11.00	10.91
		159	5795		11.00	10.93
	802.11ax40-HE0	151	5755	MCS0	11.00	10.89
		159	5795		11.00	10.91
	802.11ac80-VHT0	155	5775	MCS0	11.00	10.99
	802.11ax80-HE0	155	5775	MCS0	11.00	10.90

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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	13.50	13.48
		6	2437		13.50	13.39
		11	2462		13.50	13.46
	802.11g	1	2412	6Mbps	13.50	13.39
		6	2437		13.50	13.43
		11	2462		13.50	13.39
	802.11n20-HT0	1	2412	MCS0	13.50	13.41
		6	2437		13.50	13.45
		11	2462		13.50	13.44
	802.11ax20-HE0	1	2412	MCS0	13.50	13.43
		6	2437		13.50	13.41
		11	2462		13.50	13.47
	802.11n40-HT0	3	2422	MCS0	13.50	13.44
		6	2437		13.50	13.42
		9	2452		13.50	13.45
	802.11ax40-HE0	3	2422	MCS0	13.50	13.41
		6	2437		13.50	13.39
		9	2452		13.50	13.40

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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	12.00	11.94
		40	5200		12.00	11.89
		44	5220		12.00	11.97
		48	5240		12.00	11.90
	802.11n20-HT0	36	5180	MCS0	12.00	11.93
		40	5200		12.00	11.92
		44	5220		12.00	11.96
		48	5240		12.00	11.91
	802.11ax20-HE0	36	5180	MCS0	12.00	11.88
		40	5200		12.00	11.96
		44	5220		12.00	11.94
		48	5240		12.00	11.93
	802.11n40-HT0	38	5190	MCS0	12.00	11.90
		46	5230		12.00	11.92
	802.11ax40-HE0	38	5190	MCS0	12.00	11.97
		46	5230		12.00	11.89
802.11ac80-VHT0	42	5210	MCS0	12.00	11.94	
802.11ax80-HE0	42	5210	MCS0	12.00	11.88	
802.11ac160-VHT0	50	5250	MCS0	12.00	11.98	
802.11ax160-HE0	50	5250	MCS0	12.00	11.93	

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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	12.00	11.95
		56	5280		12.00	11.96
		60	5300		12.00	11.97
		64	5320		12.00	11.90
	802.11n20-HT0	52	5260	MCS0	12.00	11.89
		56	5280		12.00	11.94
		60	5300		12.00	11.95
		64	5320		12.00	11.88
	802.11ax20-HE0	52	5260	MCS0	12.00	11.95
		56	5280		12.00	11.94
		60	5300		12.00	11.90
		64	5320		12.00	11.92
	802.11n40-HT0	54	5270	MCS0	12.00	11.96
		62	5310		12.00	11.95
	802.11ax40-HE0	54	5270	MCS0	12.00	11.88
		62	5310		12.00	11.93
802.11ac80-VHT0	58	5290	MCS0	12.00	11.98	
802.11ax80-HE0	58	5290	MCS0	12.00	11.91	

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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	11.50	11.46
		120	5600		11.50	11.42
		140	5700		11.50	11.41
		144	5720		11.50	11.45
	802.11n20-HT0	100	5500	MCS0	11.50	11.39
		120	5600		11.50	11.40
		140	5700		11.50	11.43
		144	5720		11.50	11.43
	802.11ax20-HE0	100	5500	MCS0	11.50	11.40
		120	5600		11.50	11.46
		140	5700		11.50	11.45
		144	5720		11.50	11.46
	802.11n40-HT0	102	5510	MCS0	11.50	11.39
		118	5590		11.50	11.42
		134	5670		11.50	11.46
		142	5710		11.50	11.40
	802.11ax40-HE0	102	5510	MCS0	11.50	11.47
		118	5590		11.50	11.42
		134	5670		11.50	11.40
		142	5710		11.50	11.39
	802.11ac80-VHT0	106	5530	MCS0	11.50	11.47
		122	5610		11.50	11.42
		138	5690		11.50	11.48
	802.11ax80-HE0	106	5530	MCS0	11.50	11.39
		122	5610		11.50	11.42
		138	5690		11.50	11.39
	802.11ac160-VHT0	114	5570	MCS0	11.50	11.46
	802.11ax160-HE0	114	5570	MCS0	11.50	11.45

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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	11.50	11.47
		157	5785		11.50	11.45
		165	5825		11.50	11.46
	802.11n20-HT0	149	5745	MCS0	11.50	11.41
		157	5785		11.50	11.40
		165	5825		11.50	11.46
	802.11ax20-HE0	149	5745	MCS0	11.50	11.45
		157	5785		11.50	11.38
		165	5825		11.50	11.45
	802.11n40-HT0	151	5755	MCS0	11.50	11.39
		159	5795		11.50	11.44
	802.11ax40-HE0	151	5755	MCS0	11.50	11.43
		159	5795		11.50	11.42
	802.11ac80-VHT0	155	5775	MCS0	11.50	11.48
	802.11ax80-HE0	155	5775	MCS0	11.50	11.45

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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	4.94
		45	6175		5.00	4.95
		93	6415		5.00	4.96
	802.11ax40-HE0	3	5965	MCS0	8.25	8.14
		43	6165		8.25	8.21
		91	6405		8.25	8.20
	802.11ax80-HE0	7	5985	MCS0	10.75	10.64
		39	6145		10.75	10.66
		87	6385		10.75	10.72
	802.11ax160-HE0	15	6025	MCS0	13.50	13.47
		47	6185		13.50	13.43
		79	6345		13.50	13.49
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	4.95
		105	6475		5.00	4.91
		113	6515		5.00	4.92
	802.11ax40-HE0	99	6445	MCS0	8.25	8.21
		107	6485		8.25	8.14
	802.11ax80-HE0	103	6465	MCS0	10.75	10.69
		119	6545		10.75	10.70
	802.11ax160-HE0	111	6505	MCS0	13.00	12.93

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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-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.25	4.20
		149	6695		4.25	4.21
		181	6855		4.25	4.19
	802.11ax40-HE0	115	6525	MCS0	8.25	8.14
		147	6685		7.50	7.44
		179	6845		7.50	7.42
	802.11ax80-HE0	135	6625	MCS0	10.00	9.92
		151	6705		10.00	9.92
		167	6785		10.00	9.93
	802.11ax160-HE0	143	6665	MCS0	12.75	12.74
		175	6825		12.75	12.66
	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	4.13
		209	6995		4.25	4.20
		233	7115		-1.00	-1.11
	802.11ax40-HE0	187	6885	MCS0	7.50	7.42
		227	7085		7.50	7.43
	802.11ax80-HE0	183	6865	MCS0	10.00	9.89
		199	6945		10.00	9.94
		215	7025		10.00	9.96
	802.11ax160-HE0	207	6985	MCS0	12.75	12.74

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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-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.00	4.91
		45	6175		5.00	4.96
		93	6415		5.00	4.97
	802.11ax40-HE0	3	5965	MCS0	8.25	8.20
		43	6165		8.25	8.18
		91	6405		8.25	8.17
	802.11ax80-HE0	7	5985	MCS0	10.75	10.70
		39	6145		10.75	10.71
		87	6385		10.75	10.64
	802.11ax160-HE0	15	6025	MCS0	13.50	13.40
		47	6185		13.50	13.43
		79	6345		13.50	13.42
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	4.93
		105	6475		5.00	4.91
		113	6515		5.00	4.90
	802.11ax40-HE0	99	6445	MCS0	8.25	8.22
		107	6485		8.25	8.22
	802.11ax80-HE0	103	6465	MCS0	10.75	10.70
		119	6545		10.75	10.66
	802.11ax160-HE0	111	6505	MCS0	13.50	13.49

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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	4.15
		149	6695		4.25	4.21
		181	6855		4.25	4.17
	802.11ax40-HE0	115	6525	MCS0	8.25	8.16
		147	6685		7.50	7.47
		179	6845		7.50	7.44
	802.11ax80-HE0	135	6625	MCS0	10.00	9.95
		151	6705		10.00	9.97
		167	6785		10.00	9.93
	802.11ax160-HE0	143	6665	MCS0	12.75	12.71
		175	6825		12.75	12.72
	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	4.14
		209	6995		4.25	4.14
		233	7115		-1.00	-1.03
	802.11ax40-HE0	187	6885	MCS0	7.50	7.39
		227	7085		7.50	7.43
	802.11ax80-HE0	183	6865	MCS0	10.00	9.95
		199	6945		10.00	9.91
		215	7025		10.00	9.96
	802.11ax160-HE0	207	6985	MCS0	12.75	12.66

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Tablet 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	4.88
		45	6175		5.00	4.89
		93	6415		5.00	4.81
	802.11ax40-HE0	3	5965	MCS0	8.25	8.19
		43	6165		8.25	8.15
		91	6405		8.25	8.21
	802.11ax80-HE0	7	5985	MCS0	10.75	10.72
		39	6145		10.75	10.71
		87	6385		10.75	10.70
	802.11ax160-HE0	15	6025	MCS0	11.00	10.99
		47	6185		11.00	10.96
		79	6345		11.00	10.98
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	4.97
		105	6475		5.00	4.95
		113	6515		5.00	4.96
	802.11ax40-HE0	99	6445	MCS0	8.25	8.16
		107	6485		8.25	8.21
	802.11ax80-HE0	103	6465	MCS0	10.50	10.44
		119	6545		10.50	10.48
	802.11ax160-HE0	111	6505	MCS0	10.50	10.49

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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-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.25	4.15
		149	6695		4.25	4.20
		181	6855		4.25	4.19
	802.11ax40-HE0	115	6525	MCS0	8.25	8.16
		147	6685		7.50	7.47
		179	6845		7.50	7.47
	802.11ax80-HE0	135	6625	MCS0	10.00	9.97
		151	6705		10.00	9.92
		167	6785		10.00	9.94
	802.11ax160-HE0	143	6665	MCS0	10.50	10.49
		175	6825		10.00	9.99
	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	4.18
		209	6995		4.25	4.13
		233	7115		-1.00	-1.12
	802.11ax40-HE0	187	6885	MCS0	7.50	7.39
		227	7085		7.50	7.41
	802.11ax80-HE0	183	6865	MCS0	10.00	9.97
		199	6945		10.00	9.96
		215	7025		10.00	9.89
	802.11ax160-HE0	207	6985	MCS0	11.00	10.95

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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-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.00	4.89
		45	6175		5.00	4.95
		93	6415		5.00	4.89
	802.11ax40-HE0	3	5965	MCS0	8.25	8.16
		43	6165		8.25	8.14
		91	6405		8.25	8.21
	802.11ax80-HE0	7	5985	MCS0	10.75	10.67
		39	6145		10.75	10.72
		87	6385		10.75	10.64
	802.11ax160-HE0	15	6025	MCS0	12.00	11.92
		47	6185		12.00	11.97
		79	6345		11.50	11.44
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	4.96
		105	6475		5.00	4.95
		113	6515		5.00	4.95
	802.11ax40-HE0	99	6445	MCS0	8.25	8.18
		107	6485		8.25	8.17
	802.11ax80-HE0	103	6465	MCS0	10.75	10.74
		119	6545		10.75	10.73
	802.11ax160-HE0	111	6505	MCS0	11.50	11.40

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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	4.18
		149	6695		4.25	4.14
		181	6855		4.25	4.15
	802.11ax40-HE0	115	6525	MCS0	8.25	8.13
		147	6685		7.50	7.39
		179	6845		7.50	7.44
	802.11ax80-HE0	135	6625	MCS0	10.00	9.89
		151	6705		10.00	9.91
		167	6785		10.00	9.94
	802.11ax160-HE0	143	6665	MCS0	11.50	11.49
		175	6825		11.00	10.99
	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	4.15
		209	6995		4.25	4.20
		233	7115		-1.00	-1.03
	802.11ax40-HE0	187	6885	MCS0	7.50	7.46
		227	7085		7.50	7.43
	802.11ax80-HE0	183	6865	MCS0	10.00	9.92
		199	6945		8.50	8.48
		215	7025		8.50	8.47
	802.11ax160-HE0	207	6985	MCS0	8.50	8.42

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6.3 Bluetooth

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	6.57	7.00	6.56
	CH 39	2441		9.18		6.81		6.79
	CH 78	2480		9.13		6.72		6.71

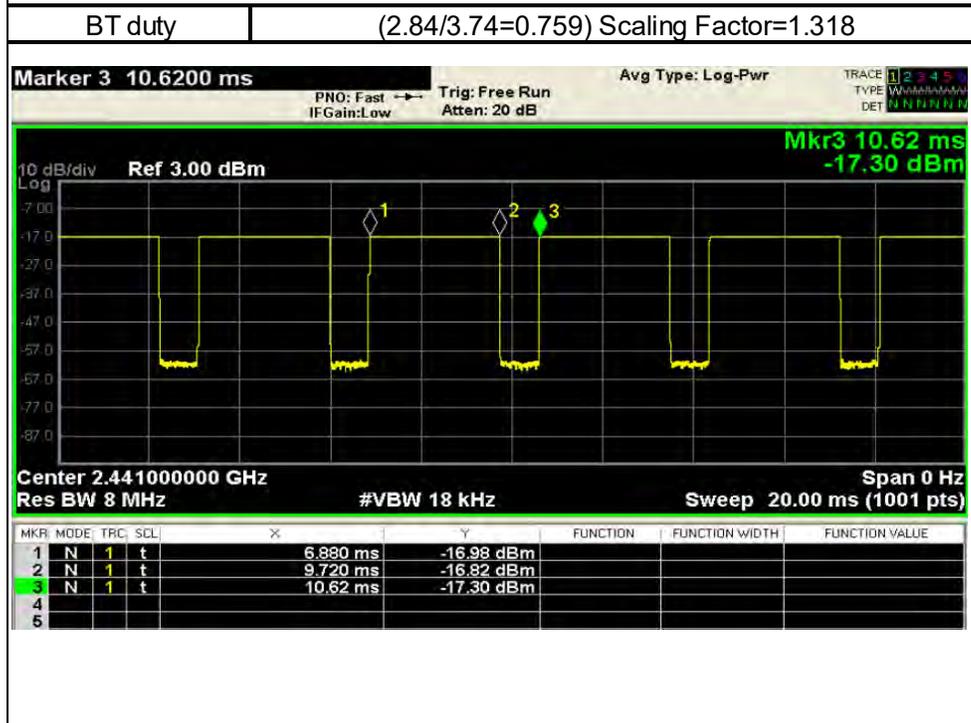
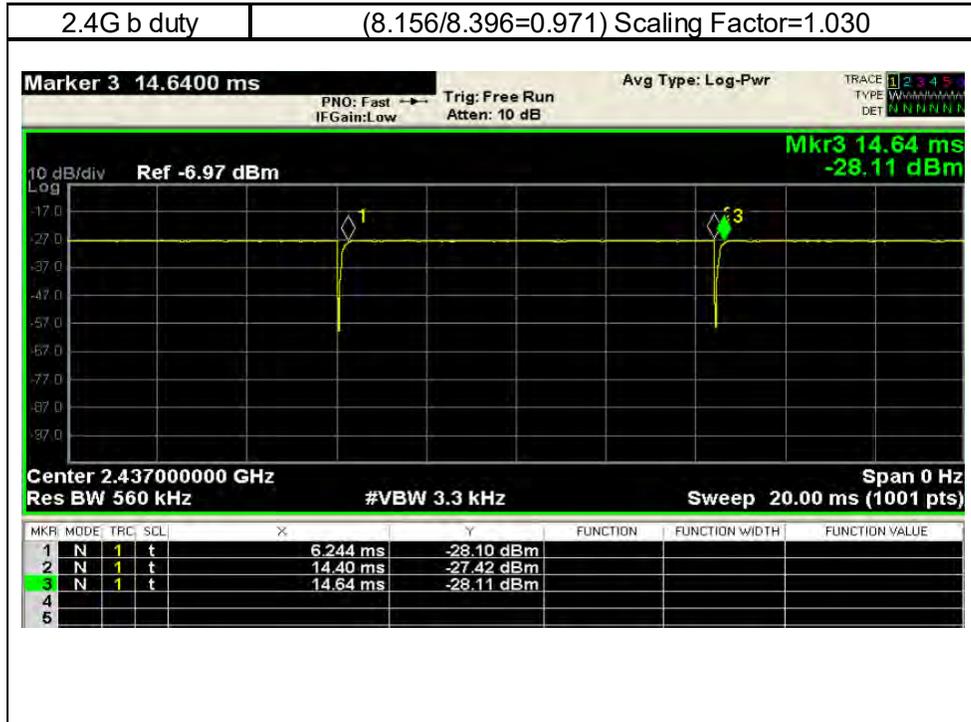
6.4 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	7	6.27
	CH 19	2440		6.51
	CH 39	2480		6.43
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	7	6.58
	CH 19	2440		6.83
	CH 39	2480		6.74

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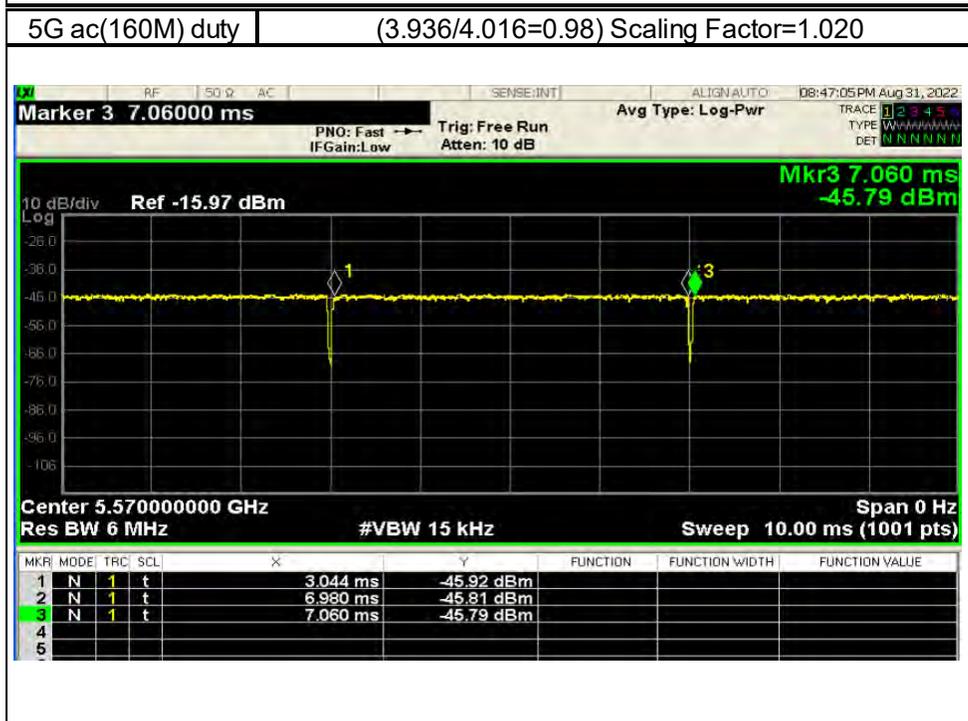
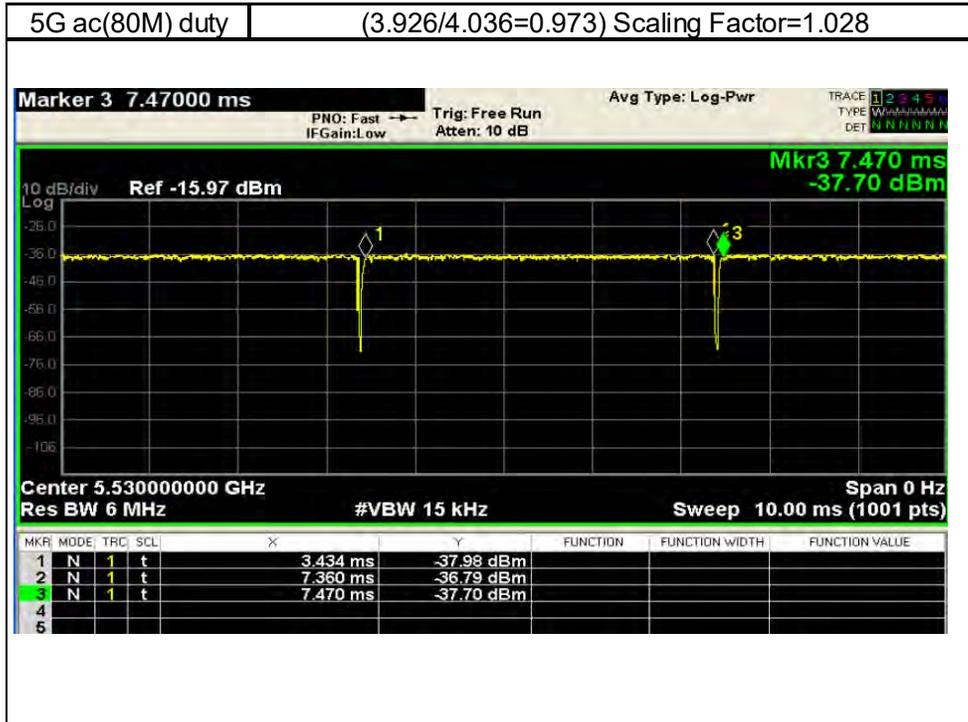
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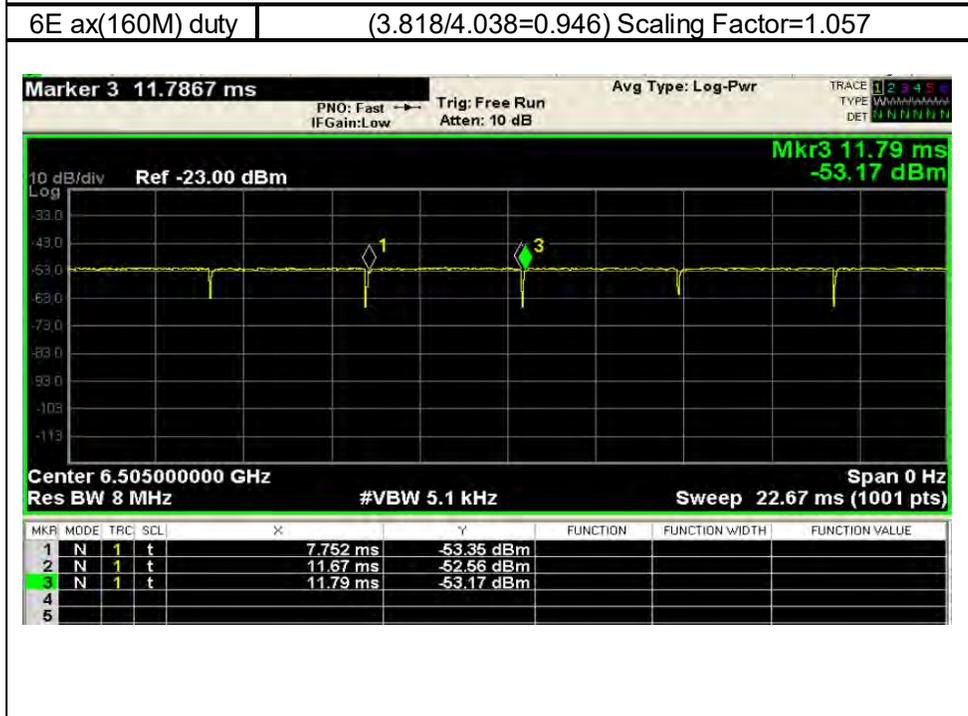
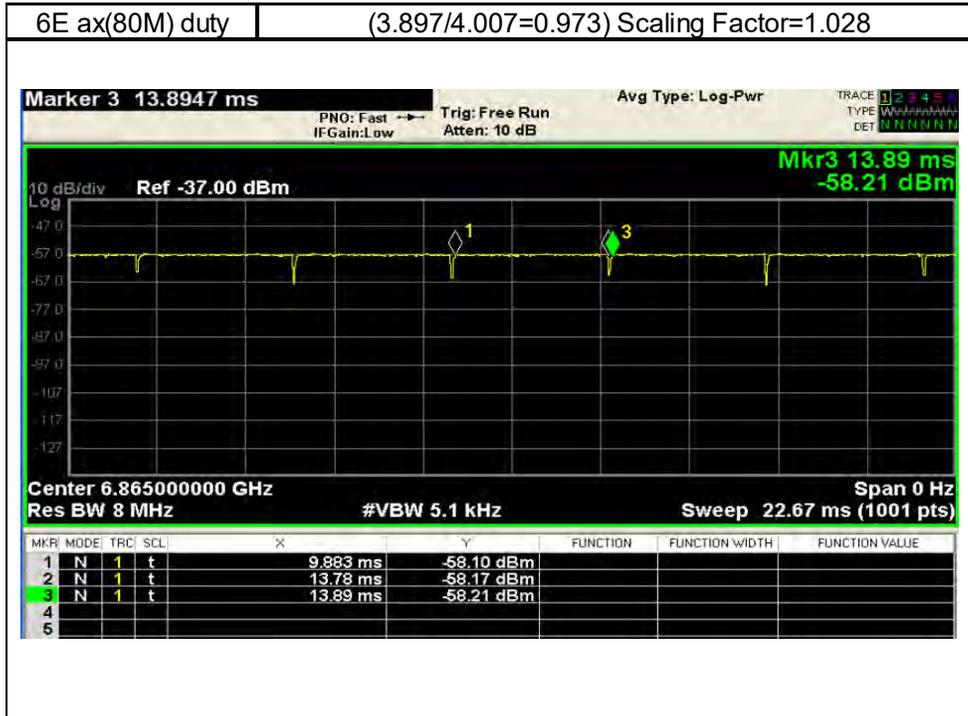
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7 SUMMARY OF RESULTS

7.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

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

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7.2 Summary of SAR Results

South star

Notebook mode

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	6	2437	16.50	16.49	1.03	100.23%	1.040	1.074	001
WLAN 802.11b	Bottom Surface	0	11	2462	16.50	16.48	1.03	100.46%	1.020	1.055	-
WLAN 802.11b	Bottom Surface*	0	6	2437	16.50	16.49	1.03	100.23%	1.010	1.043	-
WLAN 802.11ac(80M) 5.2G	Bottom Surface	0	42	5210	15.50	15.49	1.03	100.23%	1.140	1.175	002
WLAN 802.11ac(80M) 5.2G	Bottom Surface*	0	42	5210	15.50	15.49	1.03	100.23%	1.090	1.123	-
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	15.50	15.49	1.03	100.23%	1.080	1.113	003
WLAN 802.11ac(80M) 5.3G	Bottom Surface*	0	58	5290	15.50	15.49	1.03	100.23%	1.030	1.061	-
WLAN 802.11ac(80M) 5.6G	Bottom Surface	0	106	5530	15.00	14.97	1.03	100.69%	1.050	1.087	-
WLAN 802.11ac(80M) 5.6G	Bottom Surface	0	138	5690	15.00	14.99	1.03	100.23%	1.140	1.175	004
WLAN 802.11ac(80M) 5.6G	Bottom Surface*	0	138	5690	15.00	14.99	1.03	100.23%	1.110	1.144	-
WLAN 802.11ac(160M) 5.6G	Bottom Surface	0	114	5570	15.00	14.99	1.02	100.23%	1.090	1.114	005
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	15.50	15.49	1.03	100.23%	1.140	1.175	006
WLAN 802.11ac(80M) 5.8G	Bottom Surface*	0	155	5775	15.50	15.49	1.03	100.23%	1.120	1.154	-
WLAN Aux											
WLAN 802.11b	Bottom Surface	0	1	2412	17.50	17.48	1.03	100.46%	0.896	0.927	-
WLAN 802.11b	Bottom Surface	0	6	2437	17.50	17.49	1.03	100.23%	0.920	0.950	007
Bluetooth(GFSK)	Bottom Surface	0	39	2441	11.00	9.18	1.32	152.05%	0.146	0.293	008
WLAN 802.11ac(80M) 5.2G	Bottom Surface	0	42	5210	17.50	17.49	1.03	100.23%	1.050	1.082	009
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	17.50	17.48	1.03	100.46%	1.150	1.188	010
WLAN 802.11ac(80M) 5.3G	Bottom Surface*	0	58	5290	17.50	17.48	1.03	100.46%	1.050	1.084	-
WLAN 802.11ac(80M) 5.6G	Bottom Surface	0	106	5530	17.00	16.97	1.03	100.69%	0.862	0.892	-
WLAN 802.11ac(80M) 5.6G	Bottom Surface	0	138	5690	17.00	16.98	1.03	100.46%	0.991	1.023	011
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	17.00	16.99	1.03	100.23%	0.953	0.982	012

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

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WIFI 6E

WLAN Main

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	13.50	13.47	1.06	100.69%	0.606	0.645	4.38	4.662	013
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	79	6345	13.50	13.49	1.06	100.23%	0.547	0.580	3.82	4.047	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	13.00	12.93	1.06	101.62%	0.563	0.605	3.88	4.168	014

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	12.75	12.74	1.06	100.23%	0.561	0.594	3.87	4.100	015

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6965	12.75	12.74	1.03	100.23%	0.566	0.584	3.96	4.088	016

WLAN Aux

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	13.50	13.40	1.06	102.33%	0.317	0.343	2.16	2.336	-
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	13.50	13.43	1.06	101.62%	0.447	0.480	3.18	3.416	017
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	79	6345	13.50	13.42	1.06	101.86%	0.363	0.391	2.54	2.735	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	13.50	13.49	1.06	100.23%	0.494	0.523	3.44	3.644	018

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	175	6825	12.75	12.72	1.06	100.69%	0.426	0.453	3.06	3.257	019

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6965	12.75	12.66	1.03	102.09%	0.456	0.480	3.29	3.460	020

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Tablet mode

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
									WLAN 802.11b	Back Surface	
WLAN 802.11b	Back Surface	0	6	2437	13.00	12.99	1.03	100.23%	0.714	0.737	021
WLAN 802.11b	Back Surface	0	11	2462	13.00	12.95	1.03	101.16%	0.687	0.716	-
WLAN 802.11b	Top Edge	0	6	2437	13.00	12.99	1.03	100.23%	0.146	0.151	-
WLAN 802.11b	Left Edge	0	6	2437	13.00	12.99	1.03	100.23%	0.030	0.031	-

Mode	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) 5.2G	Back Surface	
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	11.50	11.48	1.02	100.46%	1.050	1.076	022
WLAN 802.11ac(160M) 5.2G	Left Edge	0	50	5250	11.50	11.48	1.02	100.46%	0.015	0.015	-

Mode	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) 5.6G	Back Surface	
WLAN 802.11ac(80M) 5.6G	Back Surface	0	138	5690	10.50	10.49	1.03	100.23%	0.978	1.008	-
WLAN 802.11ac(80M) 5.6G	Top Edge	0	106	5530	10.50	10.48	1.03	100.46%	0.955	0.986	-
WLAN 802.11ac(80M) 5.6G	Top Edge	0	138	5690	10.50	10.49	1.03	100.23%	0.829	0.854	-
WLAN 802.11ac(80M) 5.6G	Left Edge	0	138	5690	10.50	10.49	1.03	100.23%	0.019	0.020	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	10.50	10.47	1.02	100.69%	0.995	1.022	024
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	10.50	10.47	1.02	100.69%	0.935	0.960	-
WLAN 802.11ac(160M) 5.6G	Left Edge	0	114	5570	10.50	10.47	1.02	100.69%	0.022	0.023	-

Mode	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) 5.8G	Back Surface	
WLAN 802.11ac(80M) 5.8G	Top Edge	0	155	5775	11.00	10.99	1.03	100.23%	0.872	0.898	-
WLAN 802.11ac(80M) 5.8G	Left Edge	0	155	5775	11.00	10.99	1.03	100.23%	0.017	0.018	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
									WLAN 802.11b	Back Surface	
WLAN 802.11b	Back Surface	0	11	2462	13.50	13.46	1.03	100.93%	0.911	0.947	026
WLAN 802.11b	Top Edge	0	1	2412	13.50	13.48	1.03	100.46%	0.641	0.663	-
WLAN 802.11b	Right Edge	0	1	2412	13.50	13.48	1.03	100.46%	0.025	0.026	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
									Bluetooth(GFSK)	Back Surface	
Bluetooth(GFSK)	Top Edge	0	39	2441	11.00	9.18	1.32	152.05%	0.059	0.118	-
Bluetooth(GFSK)	Right Edge	0	39	2441	11.00	9.18	1.32	152.05%	0.008	0.016	-

Mode	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) 5.2G	Back Surface	
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	12.00	11.98	1.02	100.46%	0.733	0.751	-
WLAN 802.11ac(160M) 5.2G	Right Edge	0	50	5250	12.00	11.98	1.02	100.46%	0.032	0.033	-

Mode	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) 5.6G	Back Surface	
WLAN 802.11ac(80M) 5.6G	Back Surface	0	138	5690	11.50	11.48	1.03	100.46%	0.976	1.008	029
WLAN 802.11ac(80M) 5.6G	Top Edge	0	138	5690	11.50	11.48	1.03	100.46%	0.791	0.817	-
WLAN 802.11ac(80M) 5.6G	Right Edge	0	138	5690	11.50	11.48	1.03	100.46%	0.029	0.030	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	11.50	11.46	1.02	100.93%	0.888	0.914	030
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	11.50	11.46	1.02	100.93%	0.730	0.751	-
WLAN 802.11ac(160M) 5.6G	Right Edge	0	114	5570	11.50	11.46	1.02	100.93%	0.025	0.026	-

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WIFI 6E

WLAN Main

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	15	6025	11.00	10.99	1.06	100.23%	0.852	0.903	5.9	6.251	032
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	79	6345	11.00	10.98	1.06	100.46%	0.821	0.872	5.94	6.308	-
U-NII-5 6.2GHz802.11ax(160M)	Top Edge	0	15	6025	11.00	10.99	1.06	100.23%	0.760	0.805	4.95	5.244	-
U-NII-5 6.2GHz802.11ax(160M)	Left Edge	0	15	6025	11.00	10.99	1.06	100.23%	0.031	0.033	0.303	0.321	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-6 6.5GHz802.11ax(160M)	Back Surface	0	111	6505	10.50	10.49	1.06	100.23%	0.790	0.837	5.55	5.880	-
U-NII-6 6.5GHz802.11ax(160M)	Top Edge	0	111	6505	10.50	10.49	1.06	100.23%	0.851	0.902	5.15	5.456	033
U-NII-6 6.5GHz802.11ax(160M)	Left Edge	0	111	6505	10.50	10.49	1.06	100.23%	0.032	0.034	0.32	0.339	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-7 6.7GHz802.11ax(160M)	Back Surface	0	143	6665	10.50	10.49	1.06	100.23%	0.746	0.790	5.13	5.435	-
U-NII-7 6.7GHz802.11ax(160M)	Top Edge	0	143	6665	10.50	10.49	1.06	100.23%	0.934	0.990	5.61	5.943	034
U-NII-7 6.7GHz802.11ax(160M)	Top Edge	0	175	6825	10.00	9.99	1.06	100.23%	0.837	0.887	4.96	5.255	-
U-NII-7 6.7GHz802.11ax(160M)	Left Edge	0	143	6665	10.50	10.49	1.06	100.23%	0.028	0.030	0.285	0.302	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-8 7.0GHz 802.11ax (160M)	Back Surface	0	207	6985	11.00	10.95	1.03	101.16%	0.949	0.989	6.01	6.262	-
U-NII-8 7.0GHz 802.11ax (160M)	Top Edge	0	207	6985	11.00	10.95	1.03	101.16%	1.020	1.063	6.18	6.439	035
U-NII-8 7.0GHz 802.11ax (160M)	Left Edge	0	207	6985	11.00	10.95	1.03	101.16%	0.040	0.042	0.318	0.331	-
U-NII-8 7.0GHz 802.11ax (160M)	Top Edge*	0	207	6985	11.00	10.95	1.03	101.16%	0.995	1.037	6.01	6.262	-

WLAN Aux

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	15	6025	12.00	11.92	1.06	101.86%	0.673	0.725	4.56	4.910	-
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	47	6185	12.00	11.97	1.06	100.69%	0.720	0.766	4.81	5.119	-
U-NII-5 6.2GHz802.11ax(160M)	Top Edge	0	15	6025	12.00	11.92	1.06	101.86%	0.829	0.893	5.35	5.760	036
U-NII-5 6.2GHz802.11ax(160M)	Top Edge	0	47	6185	12.00	11.97	1.06	100.69%	0.828	0.881	5.36	5.705	-
U-NII-5 6.2GHz802.11ax(160M)	Right Edge	0	47	6185	12.00	11.97	1.06	100.69%	0.030	0.032	0.328	0.349	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-6 6.5GHz802.11ax(160M)	Back Surface	0	111	6505	11.50	11.40	1.06	102.33%	0.722	0.781	4.8	5.192	-
U-NII-6 6.5GHz802.11ax(160M)	Top Edge	0	111	6505	11.50	11.40	1.06	102.33%	0.801	0.866	5.02	5.430	037
U-NII-6 6.5GHz802.11ax(160M)	Right Edge	0	111	6505	11.50	11.40	1.06	102.33%	0.032	0.035	0.28	0.303	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-7 6.7GHz802.11ax(160M)	Back Surface	0	143	6665	11.50	11.49	1.06	100.23%	0.704	0.746	4.64	4.916	-
U-NII-7 6.7GHz802.11ax(160M)	Top Edge	0	143	6665	11.50	11.49	1.06	100.23%	0.831	0.880	5.14	5.446	-
U-NII-7 6.7GHz802.11ax(160M)	Top Edge	0	175	6825	11.00	10.99	1.06	100.23%	0.873	0.925	5.17	5.477	038
U-NII-7 6.7GHz802.11ax(160M)	Right Edge	0	143	6665	11.50	11.49	1.06	100.23%	0.026	0.028	0.24	0.254	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-8 7.0GHz802.11ax(80M)	Back Surface	0	183	6865	10.00	9.92	1.03	101.86%	0.494	0.517	3.16	3.309	-
U-NII-8 7.0GHz802.11ax(80M)	Top Edge	0	183	6865	10.00	9.92	1.03	101.86%	0.652	0.683	4.04	4.230	039
U-NII-8 7.0GHz802.11ax(80M)	Right Edge	0	183	6865	10.00	9.92	1.03	101.86%	0.021	0.022	0.21	0.220	-

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

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Pulse

Notebook mode

WLAN Main											
Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	6	2437	16.50	16.49	1.03	100.23%	0.976	1.008	-
WLAN 802.11b	Bottom Surface	0	11	2462	16.50	16.48	1.03	100.46%	1.010	1.045	050
WLAN Main											
Mode	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) 5.2G	Bottom Surface	0	42	5210	15.50	15.49	1.03	100.23%	1.040	1.072	051
WLAN Main											
Mode	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) 5.3G	Bottom Surface	0	58	5290	15.50	15.49	1.03	100.23%	1.040	1.072	052
WLAN Main											
Mode	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) 5.6G	Bottom Surface	0	106	5530	15.00	14.97	1.03	100.69%	0.770	0.797	053
WLAN 802.11ac(80M) 5.6G	Bottom Surface	0	138	5690	15.00	14.99	1.03	100.23%	0.725	0.747	-
WLAN 802.11ac(160M) 5.6G	Bottom Surface	0	114	5570	15.00	14.99	1.02	100.23%	0.792	0.810	054
WLAN Main											
Mode	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) 5.8G	Bottom Surface	0	155	5775	15.50	15.49	1.03	100.23%	0.813	0.838	055
WLAN Aux											
Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	17.50	17.48	1.03	100.46%	0.915	0.947	-
WLAN 802.11b	Bottom Surface	0	6	2437	17.50	17.49	1.03	100.23%	0.950	0.981	056
WLAN Aux											
Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
Bluetooth(GFSK)	Bottom Surface	0	39	2441	11.00	9.18	1.32	152.05%	0.127	0.255	057
WLAN Aux											
Mode	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) 5.2G	Bottom Surface	0	42	5210	17.50	17.49	1.03	100.23%	0.778	0.802	058
WLAN Aux											
Mode	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) 5.3G	Bottom Surface	0	58	5290	17.50	17.48	1.03	100.46%	0.730	0.754	059
WLAN Aux											
Mode	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) 5.6G	Bottom Surface	0	106	5530	17.00	16.97	1.03	100.69%	0.744	0.770	060
WLAN 802.11ac(80M) 5.6G	Bottom Surface	0	138	5690	17.00	16.98	1.03	100.46%	0.741	0.765	-
WLAN Aux											
Mode	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) 5.8G	Bottom Surface	0	155	5775	17.00	16.99	1.03	100.23%	0.698	0.719	061

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WLAN Main

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	13.50	13.47	1.06	100.69%	0.543	0.578	3.95	4.204	062
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	79	6345	13.50	13.49	1.06	100.23%	0.473	0.501	3.39	3.591	-
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	13.00	12.93	1.06	101.62%	0.477	0.512	3.42	3.674	063
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	12.75	12.74	1.06	100.23%	0.487	0.516	3.44	3.644	064
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6965	12.75	12.74	1.03	100.23%	0.463	0.499	3.42	3.531	065
WLAN Aux													
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	13.50	13.40	1.06	102.33%	0.284	0.307	1.96	2.120	-
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	13.50	13.43	1.06	101.62%	0.321	0.345	2.38	2.557	066
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	79	6345	13.50	13.42	1.06	101.86%	0.300	0.323	2.18	2.347	-
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	13.50	13.49	1.06	100.23%	0.371	0.393	2.78	2.945	067
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	175	6825	12.75	12.72	1.06	100.69%	0.302	0.321	2.26	2.405	068
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6965	12.75	12.66	1.03	102.09%	0.357	0.375	2.64	2.776	069

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Tablet mode

WLAN Main

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Back Surface	0	1	2412	13.00	12.91	1.03	102.09%	0.747	0.786	070
WLAN 802.11b	Back Surface	0	6	2437	13.00	12.99	1.03	100.23%	0.746	0.770	-
WLAN 802.11b	Back Surface	0	11	2462	13.00	12.95	1.03	101.16%	0.735	0.766	-
WLAN 802.11b	Top Edge	0	6	2437	13.00	12.99	1.03	100.23%	0.153	0.158	-
WLAN 802.11b	Left Edge	0	6	2437	13.00	12.99	1.03	100.23%	0.042	0.043	-

Mode	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) 5.2G	Back Surface	0	50	5250	11.50	11.48	1.02	100.46%	1.100	1.127	071
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	11.50	11.48	1.02	100.46%	0.854	0.875	-
WLAN 802.11ac(160M) 5.2G	Left Edge	0	50	5250	11.50	11.48	1.02	100.46%	0.016	0.016	-
WLAN 802.11ac(160M) 5.2G	Back Surface*	0	50	5250	11.50	11.48	1.02	100.46%	1.050	1.076	-

Mode	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) 5.6G	Back Surface	0	106	5530	10.50	10.48	1.03	100.46%	0.981	1.013	072
WLAN 802.11ac(80M) 5.6G	Back Surface	0	138	5690	10.50	10.49	1.03	100.23%	0.923	0.951	-
WLAN 802.11ac(80M) 5.6G	Top Edge	0	138	5690	10.50	10.49	1.03	100.23%	0.762	0.785	-
WLAN 802.11ac(80M) 5.6G	Left Edge	0	138	5690	10.50	10.49	1.03	100.23%	0.013	0.013	-
WLAN 802.11ac(80M) 5.6G	Back Surface*	0	106	5530	10.50	10.48	1.03	100.46%	0.966	0.998	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	10.50	10.47	1.02	100.69%	0.993	1.020	073
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	10.50	10.47	1.02	100.69%	0.660	0.678	-
WLAN 802.11ac(160M) 5.6G	Left Edge	0	114	5570	10.50	10.47	1.02	100.69%	0.013	0.014	-
WLAN 802.11ac(160M) 5.6G	Back Surface*	0	114	5570	10.50	10.47	1.02	100.69%	0.978	1.004	-

Mode	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) 5.8G	Back Surface	0	155	5775	11.00	10.99	1.03	100.23%	1.050	1.082	074
WLAN 802.11ac(80M) 5.8G	Top Edge	0	155	5775	11.00	10.99	1.03	100.23%	0.730	0.752	-
WLAN 802.11ac(80M) 5.8G	Left Edge	0	155	5775	11.00	10.99	1.03	100.23%	0.020	0.021	-
WLAN 802.11ac(80M) 5.8G	Back Surface*	0	155	5775	11.00	10.99	1.03	100.23%	1.020	1.051	-

WLAN Aux

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Back Surface	0	1	2412	13.50	13.48	1.03	100.46%	0.537	0.556	-
WLAN 802.11b	Back Surface	0	6	2437	13.50	13.39	1.03	102.57%	0.552	0.583	-
WLAN 802.11b	Back Surface	0	11	2462	13.50	13.46	1.03	100.93%	0.605	0.629	075
WLAN 802.11b	Top Edge	0	1	2412	13.50	13.48	1.03	100.46%	0.153	0.158	-
WLAN 802.11b	Right Edge	0	1	2412	13.50	13.48	1.03	100.46%	0.048	0.049	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
Bluetooth(GFSK)	Back Surface	0	39	2441	11.00	9.18	1.32	152.05%	0.238	0.477	076
Bluetooth(GFSK)	Top Edge	0	39	2441	11.00	9.18	1.32	152.05%	0.051	0.102	-
Bluetooth(GFSK)	Right Edge	0	39	2441	11.00	9.18	1.32	152.05%	0.013	0.026	-

Mode	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) 5.2G	Back Surface	0	50	5250	12.00	11.98	1.02	100.46%	0.922	0.945	077
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	12.00	11.98	1.02	100.46%	0.725	0.743	-
WLAN 802.11ac(160M) 5.2G	Right Edge	0	50	5250	12.00	11.98	1.02	100.46%	0.012	0.012	-

Mode	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) 5.6G	Back Surface	0	106	5530	11.50	11.47	1.03	100.69%	0.911	0.943	-
WLAN 802.11ac(80M) 5.6G	Back Surface	0	138	5690	11.50	11.48	1.03	100.46%	0.966	0.998	078
WLAN 802.11ac(80M) 5.6G	Top Edge	0	106	5530	11.50	11.47	1.03	100.69%	0.854	0.884	-
WLAN 802.11ac(80M) 5.6G	Top Edge	0	138	5690	11.50	11.48	1.03	100.46%	0.889	0.918	-

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

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

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WIFI 6E

WLAN Main

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	15	6025	11.00	10.99	1.06	100.23%	0.796	0.843	5.61	5.943	081
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	79	6345	11.00	10.98	1.06	100.46%	0.691	0.734	5.06	5.373	-
U-NII-5 6.2GHz802.11ax(160M)	Top Edge	0	15	6025	11.00	10.99	1.06	100.23%	0.690	0.731	4.67	4.948	-
U-NII-5 6.2GHz802.11ax(160M)	Left Edge	0	15	6025	11.00	10.99	1.06	100.23%	0.028	0.030	0.269	0.285	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-6 6.5GHz802.11ax(160M)	Back Surface	0	111	6505	10.50	10.49	1.06	100.23%	0.642	0.680	4.72	5.001	-
U-NII-6 6.5GHz802.11ax(160M)	Top Edge	0	111	6505	10.50	10.49	1.06	100.23%	0.785	0.832	4.99	5.287	082
U-NII-6 6.5GHz802.11ax(160M)	Left Edge	0	111	6505	10.50	10.49	1.06	100.23%	0.027	0.029	0.271	0.287	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-7 6.7GHz802.11ax(160M)	Back Surface	0	143	6665	10.50	10.49	1.06	100.23%	0.678	0.718	4.55	4.820	-
U-NII-7 6.7GHz802.11ax(160M)	Top Edge	0	143	6665	10.50	10.49	1.06	100.23%	0.893	0.946	5.46	5.785	-
U-NII-7 6.7GHz802.11ax(160M)	Top Edge	0	175	6825	10.00	9.99	1.06	100.23%	0.991	1.050	6.01	6.367	083
U-NII-7 6.7GHz802.11ax(160M)	Left Edge	0	143	6665	10.50	10.49	1.06	100.23%	0.029	0.031	0.249	0.264	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-8 7.0GHz 802.11ax (160M)	Back Surface	0	207	6985	11.00	10.95	1.03	101.16%	0.927	0.966	5.87	6.116	-
U-NII-8 7.0GHz 802.11ax (160M)	Top Edge	0	207	6985	11.00	10.95	1.03	101.16%	0.992	1.034	5.88	6.127	084
U-NII-8 7.0GHz 802.11ax (160M)	Left Edge	0	207	6985	11.00	10.95	1.03	101.16%	0.024	0.025	0.191	0.199	-

WLAN Aux

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	15	6025	12.00	11.92	1.06	101.86%	1.000	1.077	6.79	7.310	-
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	47	6185	12.00	11.97	1.06	100.69%	1.030	1.096	7.08	7.535	085
U-NII-5 6.2GHz802.11ax(160M)	Top Edge	0	15	6025	12.00	11.92	1.06	101.86%	0.862	0.928	5.63	6.062	-
U-NII-5 6.2GHz802.11ax(160M)	Top Edge	0	47	6185	12.00	11.97	1.06	100.69%	0.869	0.925	5.54	5.896	-
U-NII-5 6.2GHz802.11ax(160M)	Right Edge	0	47	6185	12.00	11.97	1.06	100.69%	0.021	0.022	0.212	0.226	-
U-NII-5 6.2GHz802.11ax(160M)	Back Surface*	0	47	6185	12.00	11.97	1.06	100.69%	1.010	1.075	6.91	7.354	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-6 6.5GHz802.11ax(160M)	Back Surface	0	111	6505	11.50	11.40	1.06	102.33%	0.893	0.966	6.55	7.085	086
U-NII-6 6.5GHz802.11ax(160M)	Top Edge	0	111	6505	11.50	11.40	1.06	102.33%	0.838	0.906	5.13	5.549	-
U-NII-6 6.5GHz802.11ax(160M)	Right Edge	0	111	6505	11.50	11.40	1.06	102.33%	0.025	0.027	0.229	0.248	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-7 6.7GHz802.11ax(160M)	Back Surface	0	143	6665	11.50	11.49	1.06	100.23%	0.971	1.029	7.11	7.533	087
U-NII-7 6.7GHz802.11ax(160M)	Back Surface	0	175	6825	11.00	10.99	1.06	100.23%	0.842	0.892	4.97	5.265	-
U-NII-7 6.7GHz802.11ax(160M)	Top Edge	0	143	6665	11.50	11.49	1.06	100.23%	0.897	0.950	5.5	5.827	-
U-NII-7 6.7GHz802.11ax(160M)	Top Edge	0	175	6825	11.00	10.99	1.06	100.23%	0.852	0.903	4.86	5.149	-
U-NII-7 6.7GHz802.11ax(160M)	Right Edge	0	143	6665	11.50	11.49	1.06	100.23%	0.034	0.036	0.317	0.336	-

Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-8 7.0GHz802.11ax(80M)	Back Surface	0	183	6865	10.00	9.92	1.03	101.86%	0.704	0.737	5.14	5.382	088
U-NII-8 7.0GHz802.11ax(80M)	Top Edge	0	183	6865	10.00	9.92	1.03	101.86%	0.702	0.735	4.07	4.262	-
U-NII-8 7.0GHz802.11ax(80M)	Right Edge	0	183	6865	10.00	9.92	1.03	101.86%	0.027	0.028	0.26	0.272	-

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

Note:

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

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

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7.3 Summary of PD Results

South star

WLAN Main

Mode	Position	Distance (mm)	Channel	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 (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	15	6025	11.00	10.99	100.23%	1.06	1.55	1.970	3.235	1.750	2.874	040
	Back Surface	2	79	6345	11.00	10.98	100.46%	1.06	1.55	2.420	3.983	2.100	3.456	041
WLAN 6E 802.11ax(160M) U-NII-6	Top Edge	2	111	6505	10.50	10.49	100.23%	1.06	1.55	2.200	3.613	1.990	3.268	042
WLAN 6E 802.11ax(160M) U-NII-7	Top Edge	2	143	6685	10.50	10.49	100.23%	1.06	1.55	2.510	4.122	2.270	3.728	043
WLAN 6E 802.11ax(160M) U-NII-8	Top Edge	2	207	6985	11.00	10.95	101.16%	1.06	1.55	3.190	5.287	2.820	4.674	044

WLAN Aux

Mode	Position	Distance (mm)	Channel	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 (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Top Edge	2	15	6025	12.00	11.92	101.86%	1.06	1.55	2.250	3.755	2.170	3.621	045
	Top Edge	2	47	6185	12.00	11.97	100.69%	1.06	1.55	1.950	3.217	1.890	3.118	046
WLAN 6E 802.11ax(160M) U-NII-6	Top Edge	2	111	6505	11.50	11.40	102.33%	1.06	1.55	2.200	3.688	2.150	3.605	047
WLAN 6E 802.11ax(160M) U-NII-7	Top Edge	2	175	6825	11.00	10.99	100.23%	1.06	1.55	1.960	3.219	1.920	3.153	048
WLAN 6E 802.11ax(80M) U-NII-8	Top Edge	2	183	6865	10.00	9.92	101.86%	1.03	1.55	1.850	3.003	1.650	2.678	049

Pulse

WLAN Main

Mode	Position	Distance (mm)	Channel	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 (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	15	6025	11.00	10.99	100.23%	1.06	1.55	2.710	4.450	2.480	4.072	089
	Back Surface	2	79	6345	11.00	10.98	100.46%	1.06	1.55	2.480	4.082	2.280	3.753	090
WLAN 6E 802.11ax(160M) U-NII-6	Top Edge	2	111	6505	10.50	10.49	100.23%	1.06	1.55	1.760	2.890	1.610	2.644	091
WLAN 6E 802.11ax(160M) U-NII-7	Top Edge	2	175	6825	10.00	9.99	100.23%	1.06	1.55	2.120	3.481	1.820	2.989	092
WLAN 6E 802.11ax(160M) U-NII-8	Top Edge	2	207	6985	11.00	10.95	101.16%	1.06	1.55	2.630	4.359	2.260	3.746	093

WLAN Aux

Mode	Position	Distance (mm)	Channel	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 (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	15	6025	12.00	11.92	101.86%	1.06	1.55	3.190	5.324	2.980	4.973	094
	Back Surface	2	47	6185	12.00	11.97	100.69%	1.06	1.55	3.000	4.949	2.740	4.520	095
WLAN 6E 802.11ax(160M) U-NII-6	Back Surface	2	111	6505	11.50	11.40	102.33%	1.06	1.55	2.480	4.158	2.200	3.688	096
WLAN 6E 802.11ax(160M) U-NII-7	Back Surface	2	143	6685	11.50	11.49	100.23%	1.06	1.55	2.400	3.941	2.050	3.366	097
WLAN 6E 802.11ax(80M) U-NII-8	Back Surface	2	183	6865	10.00	9.92	101.86%	1.03	1.55	1.520	2.467	1.430	2.321	098

Note:

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

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

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7.4 Reporting statements of conformity

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

7.5 Conclusion

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

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8 SIMULTANEOUS TRANSMISSION ANALYSIS

8.1 Simultaneous Transmission Scenarios:

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

Note:

1. Bluetooth and WLAN Aux share the same antenna path, and BT can transmit with WLAN Main simultaneously.
2. For 2.4/5/6GHz 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.

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8.2 Estimated SAR calculation

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

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

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

8.3 SPLSR evaluation and analysis

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

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

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

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

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

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Simultaneous Transmission Combination

South star

Exposure Position		Reported SAR								Max(SAR, APD)Ratio		Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	SPLSR No
		1	2	3	4	5	6	7	8	9	1+2	1+5	3+4	3+4+5	6+7	5+6+7		
		2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed	Summed	Summed	Summed	Summed	Summed		
Bottom Surface	0	1.074	0.950	1.175	1.188	0.293	0.645	0.523	0.403	0.214	2.024	1.367	2.363	2.656	1.168	1.461	1.2	
Back Surface	0	0.737	0.947	1.113	1.011	0.581	0.989	0.781	0.564	0.453	1.684	1.318	2.124	2.705	1.770	2.351	3.4	
Top Edge	0	0.151	0.663	1.092	0.817	0.118	1.063	0.925	0.503	0.558	0.814	0.269	1.909	2.027	1.988	2.106	6.7	
Left Edge	0	0.000	0.026	0.000	0.033	0.016	0.000	0.035	0.000	0.017	0.026	0.016	0.033	0.049	0.035	0.051		
Right Edge	0	0.031	0.000	0.023	0.000	0.000	0.042	0.000	0.021	0.000	0.031	0.031	0.023	0.023	0.042	0.042		

Pulse

Exposure Position		FCC Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	SPLSR No
		1	2	3	4	5	6	7	1+2	1+5	3+4	3+4+5	6+7	5+6+7	
		2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed	Summed	Summed	Summed	Summed	Summed	
Bottom Surface	0	1.045	1.010	1.072	0.802	0.255	0.576	0.393	2.055	1.300	1.874	2.129	0.971	1.226	8.9
Back Surface	0	0.786	0.629	1.154	1.022	0.477	0.966	1.096	1.415	1.263	2.176	2.653	2.062	2.539	10,11
Top Edge	0	0.158	0.158	0.903	0.918	0.102	1.050	0.950	0.316	0.260	1.821	1.923	2.000	2.102	12,13
Left Edge	0	0.000	0.049	0.000	0.019	0.026	0.000	0.036	0.049	0.026	0.019	0.045	0.036	0.062	
Right Edge	0	0.043	0.000	0.021	0.000	0.000	0.031	0.000	0.043	0.043	0.021	0.021	0.031	0.031	

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SPLSR
South star

SPLSR 1:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 2.4G Main	1.074	-10.34	-9.48	0.02	-	-	-	-
	WLAN 2.4G Aux	1.010	-10.32	9.12	-0.12	2.084	186.01	0.016	SPLSR \leq 0.04, Not required
<p>Top View</p>									

SPLSR 2:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 5G Main	1.175	-10.84	-8.60	-0.12	-	-	-	-
	WLAN 5G Aux	1.188	-11.00	8.62	-0.13	2.363	172.21	0.021	SPLSR \leq 0.04, Not required
	BT Aux	0.293	-10.32	9.12	-0.02	1.468	177.28	0.010	SPLSR \leq 0.04, Not required
	WLAN 5G Aux + BT Aux	1.481	-11.00	8.62	-0.13	2.656	172.21	0.025	SPLSR \leq 0.04, Not required
<p>Top View</p>									

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SPLSR 3:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.737	10.56	-9.72	-0.03	-	-	-	-
	WLAN 2.4G Aux	0.947	10.80	8.74	0.01	1.684	184.62	0.012	SPLSR \leq 0.04, Not required

SPLSR 4:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 5G Main	1.113	11.28	-9.22	0.03	-	-	-	-
	WLAN 5G Aux	1.011	11.50	8.22	0.02	2.022	174.41	0.016	SPLSR \leq 0.04, Not required
	BT Aux	0.581	10.80	8.74	0.01	1.592	179.66	0.011	SPLSR \leq 0.04, Not required
	WLAN 5G Aux + BT Aux	1.592	11.50	8.22	0.02	2.603	174.41	0.024	SPLSR \leq 0.04, Not required

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SPLSR 5:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WIFI6E Main	0.989	11.28	-8.94	-0.07	-	-	-	-
	WIFI6E Aux	0.781	11.52	8.30	0.02	1.770	172.42	0.014	SPLSR \leq 0.04, Not required
	BT Aux	0.581	10.80	8.74	0.01	1.570	176.87	0.011	SPLSR \leq 0.04, Not required
	WIFI6E Aux + BT Aux	1.362	11.52	8.30	0.02	2.351	172.42	0.021	SPLSR \leq 0.04, Not required

SPLSR 6:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	WLAN 5G Main	1.092	-1.64	-9.12	0.03	-	-	-	-
	WLAN 5G Aux	0.817	-1.72	8.38	-0.02	1.909	175.00	0.015	SPLSR \leq 0.04, Not required
	BT Aux	0.118	-1.62	8.28	-0.01	1.210	174.00	0.008	SPLSR \leq 0.04, Not required
	WLAN 5G Aux + BT Aux	0.935	-1.62	8.28	-0.01	2.027	174.00	0.017	SPLSR \leq 0.04, Not required

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SPLSR 7:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	WIFI6E Main	1.063	-1.60	-8.82	-0.13	-	-	-	-
	WIFI6E Aux	0.925	-1.70	8.38	-0.02	1.988	172.01	0.016	SPLSR ≤ 0.04, Not required
	BT Aux	0.117	-1.62	8.28	-0.01	1.180	171.00	0.007	SPLSR ≤ 0.04, Not required
	WIFI6E Aux + BT Aux	1.042	-1.62	8.28	-0.01	2.105	171.00	0.018	SPLSR ≤ 0.04, Not required
<p>Top View</p> <p>172.01 mm BT</p> <p>WIFI 6E Main WIFI 6E Aux</p> <p>171 mm</p>									

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Pulse

SPLSR 8:									
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 2.4G Main	1.045	-10.32	-9.38	0.02	-	-	-	-
	WLAN 2.4G Aux	0.981	-10.32	9.12	-0.02	1.962	185.00	0.015	SPLSR ≤ 0.04, Not required

Top View
WLAN Main WLAN Aux

SPLSR 9:									
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	1.072	-10.92	-8.60	0.00	-	-	-	-
	WLAN 5G Aux	0.802	-11.00	8.50	-0.03	1.874	171.00	0.015	SPLSR ≤ 0.04, Not required
	BT Aux	0.255	-10.32	9.12	-0.24	1.327	177.32	0.009	SPLSR ≤ 0.04, Not required
	WLAN 5G Aux + BT Aux	1.057	-11.00	8.50	-0.03	2.129	171.00	0.018	SPLSR ≤ 0.04, Not required

Top View
WLAN Main WLAN Aux BT
177.32 mm
171 mm

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SPLSR 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 5G Main	1.154	11.38	-9.32	0.04	-	-	-	-
	WLAN 5G Aux	1.022	11.50	7.94	0.04	2.176	172.60	0.019	SPLSR ≤ 0.04, Not required
	BT Aux	0.477	10.80	8.40	0.04	1.631	177.29	0.012	SPLSR ≤ 0.04, Not required
	WLAN 5G Aux + BT Aux	1.499	11.50	7.94	0.04	2.653	172.60	0.025	SPLSR ≤ 0.04, Not required

SPLSR 11:									
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	WiFi6E Main	0.966	11.40	-9.30	0.04	-	-	-	-
	WiFi6E Aux	1.096	11.50	8.12	0.02	2.062	174.20	0.017	SPLSR ≤ 0.04, Not required
	BT Aux	0.477	10.80	8.40	0.04	1.443	177.10	0.010	SPLSR ≤ 0.04, Not required
	WiFi6E Aux + BT Aux	1.573	11.50	8.12	0.02	2.539	174.20	0.023	SPLSR ≤ 0.04, Not required

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SPLSR 12:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	WLAN 5G Main	0.903	-1.60	-9.12	0.02	-	-	-	-
	WLAN 5G Aux	0.918	-1.62	8.28	-0.01	1.821	174.00	0.014	SPLSR ≤ 0.04, Not required
	BT Aux	0.102	-1.54	8.22	-0.01	1.005	173.40	0.006	SPLSR ≤ 0.04, Not required
	WLAN 5G Aux + BT Aux	1.020	-1.54	8.22	-0.01	1.923	173.40	0.015	SPLSR ≤ 0.04, Not required

SPLSR 13:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	WIFI6E Main	1.050	-1.62	-9.08	0.02	-	-	-	-
	WIFI6E Aux	0.950	1.65	8.35	-0.01	2.000	177.35	0.016	SPLSR ≤ 0.04, Not required
	BT Aux	0.102	-1.54	8.22	-0.01	1.152	173.00	0.007	SPLSR ≤ 0.04, Not required
	WIFI6E Aux + BT Aux	1.052	-1.54	8.22	-0.01	2.102	173.00	0.018	SPLSR ≤ 0.04, Not required

8.4 Conclusion

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

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9 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	558	Nov/23/2021	Nov/22/2022
SPEAG	Dosimetric E-Field Probe	EX3DV4	7466	Jan/26/2022	Jan/25/2023
SPEAG	E-field Probe for Near Field Application	EUmmWV4	9579	Oct/06/2021	Oct/05/2022
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2022	Apr/24/2023
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/27/2022	Jan/26/2023
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/26/2021	Aug/25/2022
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/26/2021	Aug/25/2022
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/24/2022	Jan/23/2023
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
R&S	MXG Analog Signal Generator	SMB100A03	182012	Jun/13/2022	Jun/12/2023
EMCI	Amplifier	EMC 074225P	980155	Calibration not required	Calibration not required
EMCI	Amplifier	EMC 2830P	980156	Calibration not required	Calibration not required
Agilent	Dual-directional coupler	772D	MY52180142	Nov/02/2021	Nov/01/2022
Agilent	Dual-directional coupler	778D	MY52180302	Oct/29/2021	Oct/28/2022
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
SPEAG	Software	DASY 6 V16.0.2.136	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 52 V52.10.4.1527	N/A	Calibration not required	Calibration not required
SPEAG	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
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
TECPEL	Digital thermometer	DTM-303A	TP130074	May/13/2022	May/12/2023

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10 UNCERTAINTY BUDGET

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.55%	N	1	1	0.64	0.43	0.99%	0.67%	M
Liquid Conductivity (mea.)	2.75%	N	1	1	0.6	0.49	1.65%	1.35%	M
Combined standard uncertainty		RSS					11.87%	11.80%	
Expant uncertainty (95% confidence interval), K=2							23.75%	23.61%	

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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 Distributo	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	v_i , or V_{eff}
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)									
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.39%	N	1	1	0.64	0.43	0.25%	0.17%	M
Liquid Conductivity (mea.)	4.42%	N	1	1	0.6	0.49	2.65%	2.17%	M
Combined standard uncertainty		RSS					11.72%	11.61%	
Expant uncertainty (95% confidence interval), K=2							23.45%	23.23%	

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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) (±%)
Measurement system errors								
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
Phantom and device errors								
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
Correction to the SAR results								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling	1.096	R	√3	1.732	1	1	0.6	0.6
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
Uncertainty terms dependent on the measurement system							
Probe calibration	0.49	N	1	1	1	0.49	∞
Probe correction	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Frequency response (BW \leq 1GHz)	0.20	R	$\sqrt{3}$	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Isotropy	0.50	R	$\sqrt{3}$	1.732	1	0.29	∞
Linearity	0.20	R	$\sqrt{3}$	1.732	1	0.12	∞
Probe scattering	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Probe positioning offset	0.30	R	$\sqrt{3}$	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Field impedance dependence	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Measurement area truncation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	1	0.03	∞
Sampling	0.00	R	$\sqrt{3}$	1	1	0.00	∞
Field reconstruction	2.00	R	$\sqrt{3}$	1.732	1	1.15	∞
Forward transformation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Power density scaling	-	R	$\sqrt{3}$	1.732	1	-	∞
Spatial averaging	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
System detection limit	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors							
Probe coupling with DUT	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Modulation response	0.40	R	$\sqrt{3}$	1.732	1	0.23	∞
Integration time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Response time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Device holder influence	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
DUT alignment	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
RF ambient conditions	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Ambient reflections	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Drift of the DUT	-	R	$\sqrt{3}$	1.732	1	-	∞
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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11 SAR MEASUREMENT RESULTS

Date: 2022/8/13

ID: 001

Report No. :TESA2208000259EN

WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Main

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.03

Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.718 \text{ S/m}$; $\epsilon_r = 39.362$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2437 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.65 W/kg

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

Reference Value = 3.258 V/m; Power Drift = 0.09 dB

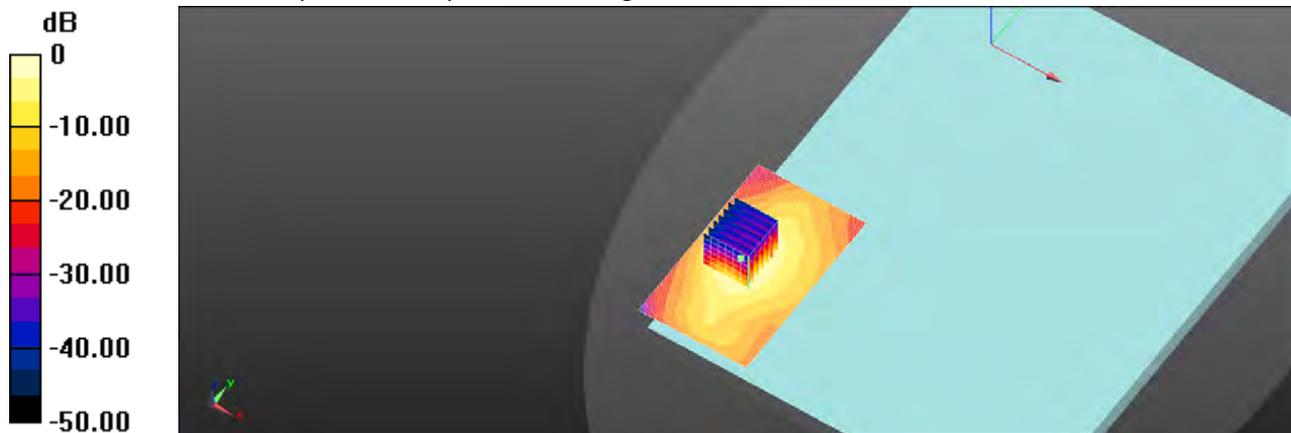
Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.480 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 43.8%

Maximum value of SAR (measured) = 1.63 W/kg



0 dB = 1.65 W/kg = 2.19 dBW/kg

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Date: 2022/8/14

ID: 002

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_0mm_Main

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.632 \text{ S/m}$; $\epsilon_r = 35.871$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5210 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.97 W/kg

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

Reference Value = 3.418 V/m; Power Drift = 0.14 dB

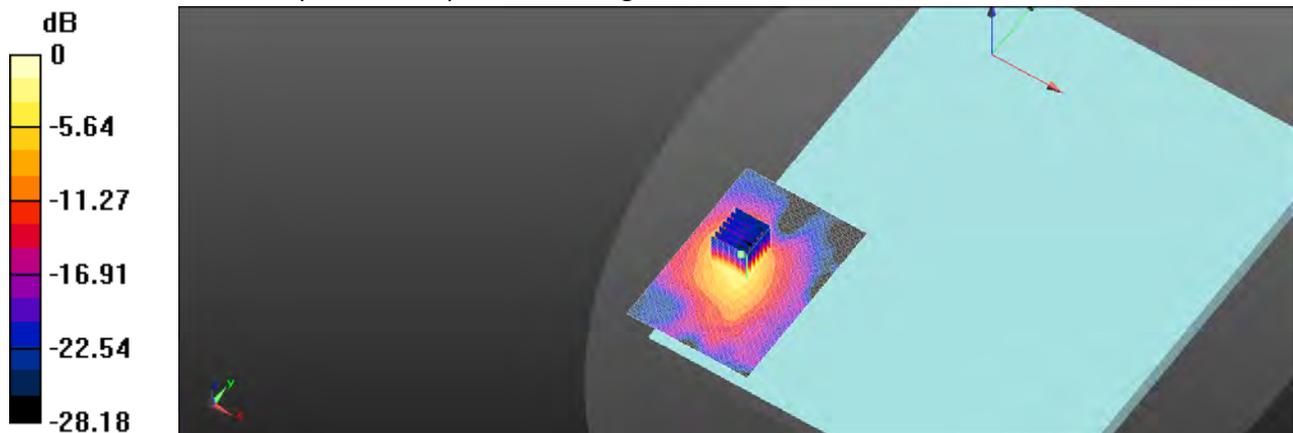
Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.394 W/kg

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

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

Maximum value of SAR (measured) = 1.98 W/kg



0 dB = 1.98 W/kg = 2.97 dBW/kg

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ID: 003

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Main

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.753 \text{ S/m}$; $\epsilon_r = 35.685$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5290 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 3.687 V/m; Power Drift = 0.08 dB

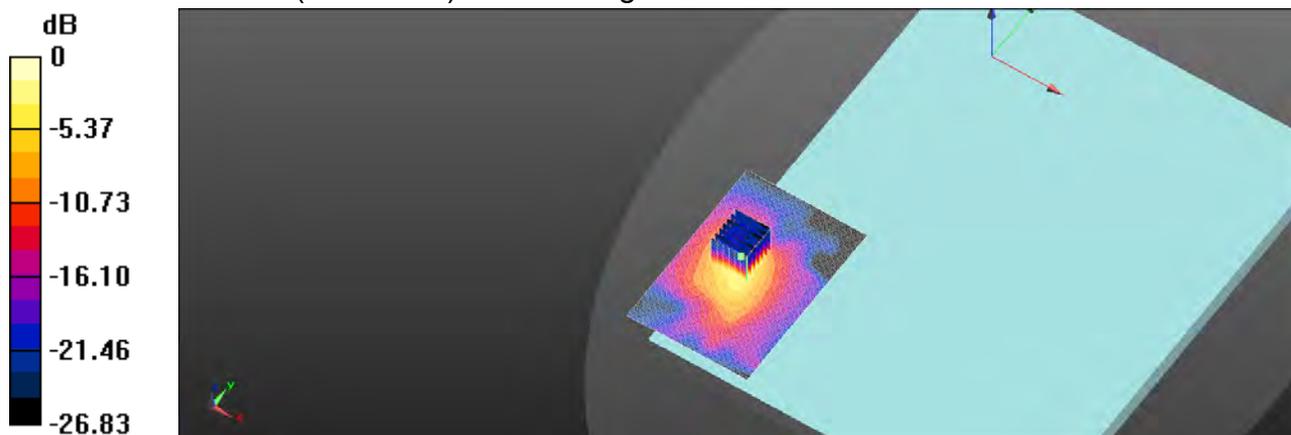
Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.370 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.6%

Maximum value of SAR (measured) = 1.86 W/kg



0 dB = 1.86 W/kg = 2.70 dBW/kg

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ID: 004

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Main

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.268 \text{ S/m}$; $\epsilon_r = 34.931$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5690 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.28 W/kg

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

Reference Value = 4.318 V/m; Power Drift = 0.11 dB

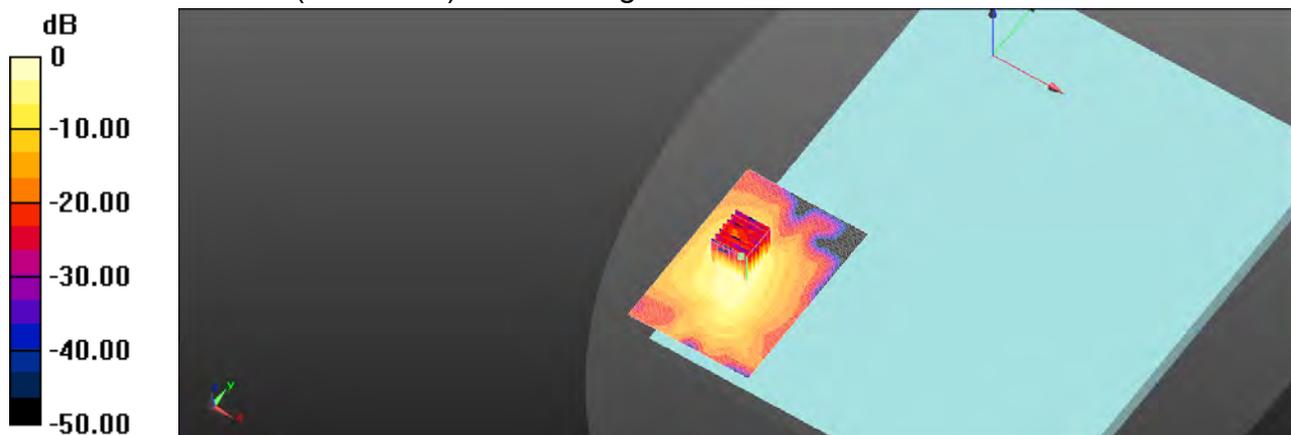
Peak SAR (extrapolated) = 4.27 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.362 W/kg

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

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

Maximum value of SAR (measured) = 2.29 W/kg



0 dB = 2.29 W/kg = 3.60 dBW/kg

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Date: 2022/8/16

ID: 005

Report No. :TESA2208000259EN

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_0mm_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.102 \text{ S/m}$; $\epsilon_r = 35.236$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.20 W/kg

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

Reference Value = 4.182 V/m; Power Drift = -0.16 dB

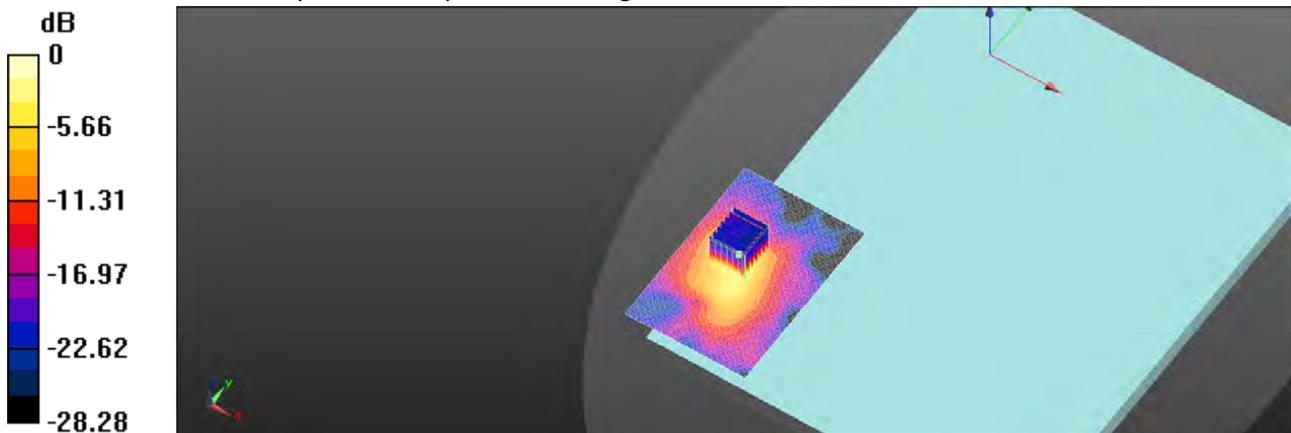
Peak SAR (extrapolated) = 4.24 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.341 W/kg

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

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

Maximum value of SAR (measured) = 2.18 W/kg



0 dB = 2.18 W/kg = 3.38 dBW/kg

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ID: 006

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Main

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.389 \text{ S/m}$; $\epsilon_r = 34.778$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5775 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.35 W/kg

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

Reference Value = 3.572 V/m; Power Drift = 0.07 dB

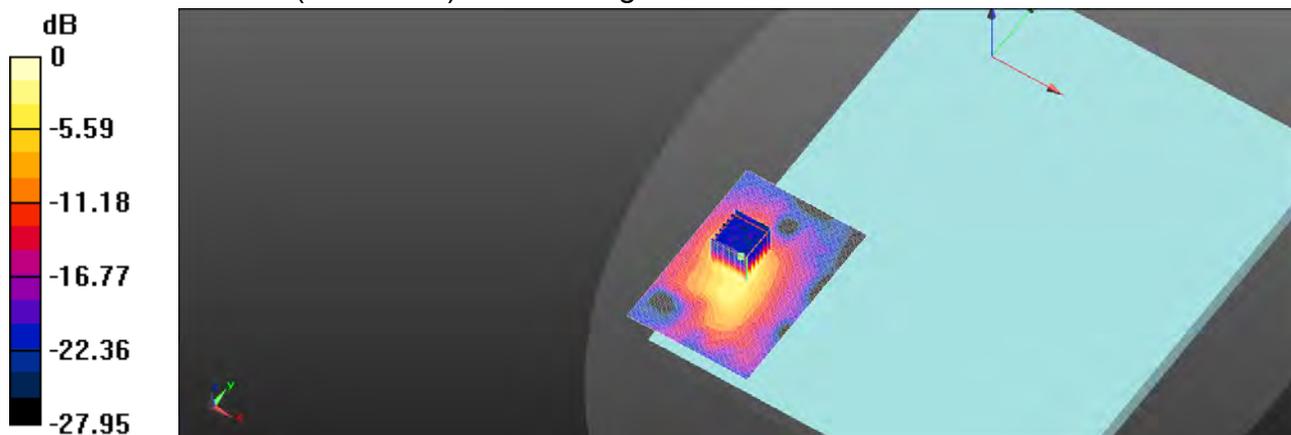
Peak SAR (extrapolated) = 4.63 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.357 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.1%

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



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

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Date: 2022/8/13

ID: 007

Report No. :TESA2208000259EN

WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Aux

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.03

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.718$ S/m; $\epsilon_r = 39.362$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2437 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.43 W/kg

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

Reference Value = 2.611 V/m; Power Drift = 0.18 dB

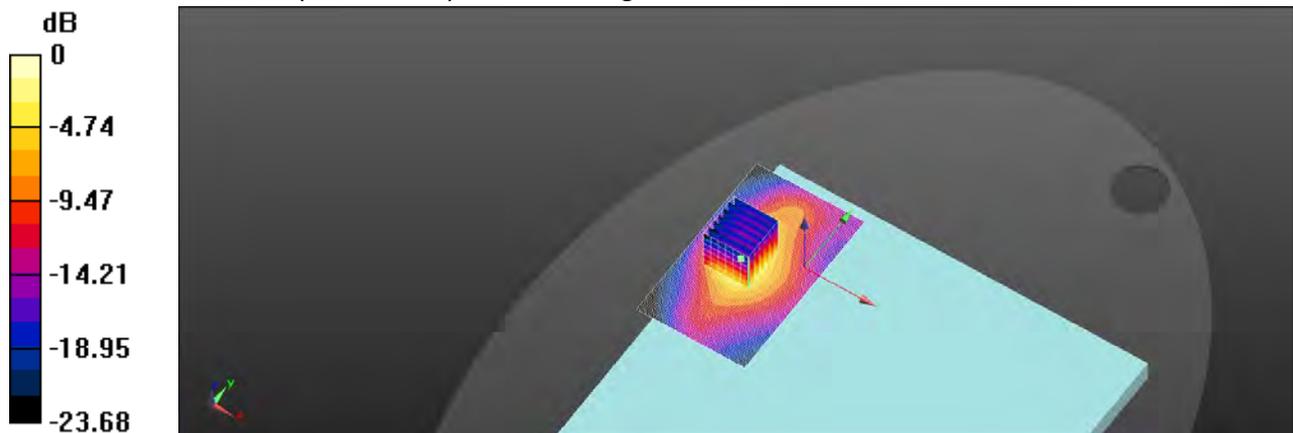
Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 0.920 W/kg; SAR(10 g) = 0.418 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 44.9%

Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

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ID: 008

Report No. :TESA2208000259EN

Bluetooth(GFSK)_Body_Bottom Surface_CH 39_0mm_Aux

Communication System: Bluetooth; Frequency: 2441 MHz; Duty cycle= 1:1.318

Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.722 \text{ S/m}$; $\epsilon_r = 39.356$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2441 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.236 W/kg

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

Reference Value = 2.115 V/m; Power Drift = 0.08 dB

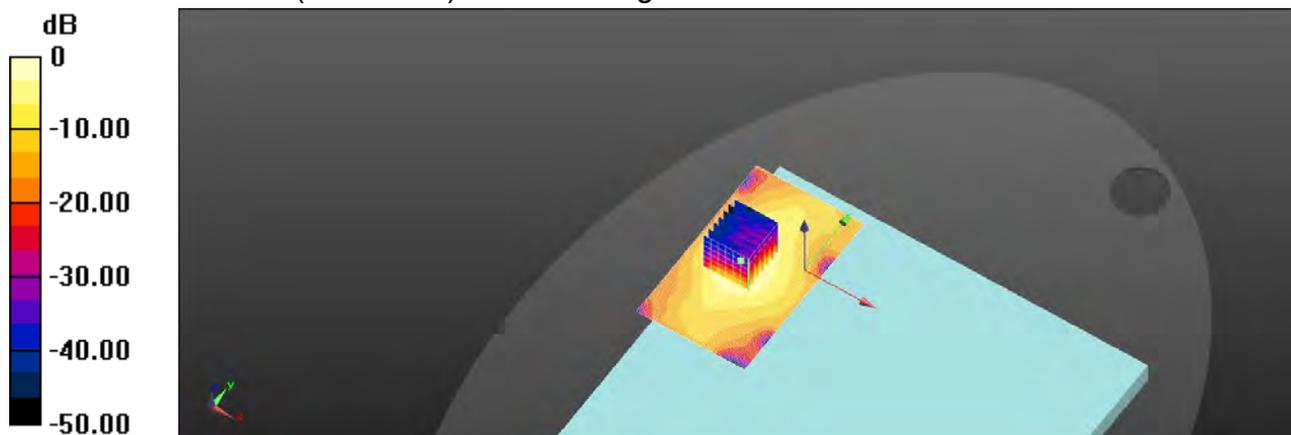
Peak SAR (extrapolated) = 0.335 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.065 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.9%

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



0 dB = 0.236 W/kg = -6.27 dBW/kg

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ID: 009

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_0mm_Aux

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.632 \text{ S/m}$; $\epsilon_r = 35.871$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5210 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.91 W/kg

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

Reference Value = 3.705 V/m; Power Drift = 0.08 dB

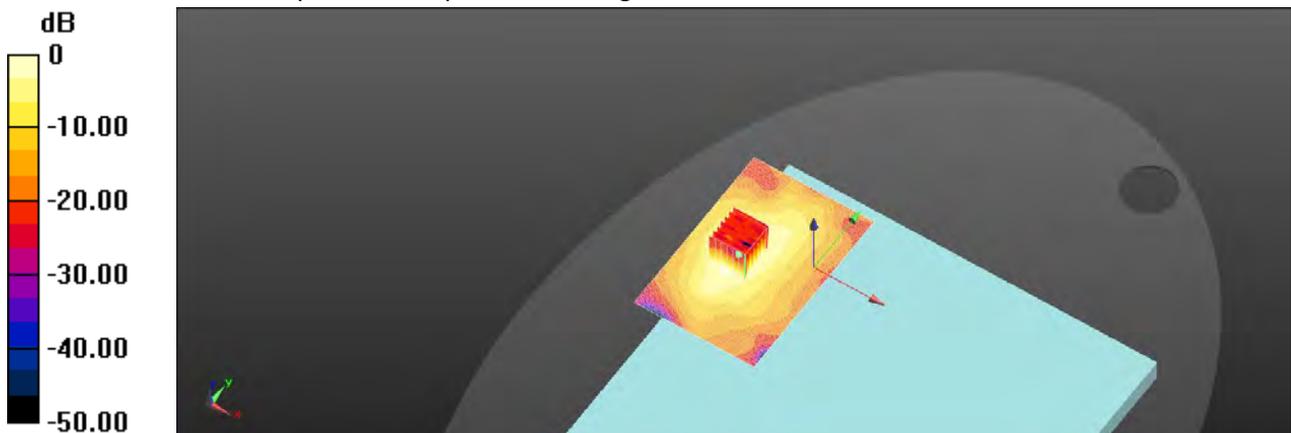
Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.374 W/kg

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

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

Maximum value of SAR (measured) = 1.93 W/kg



0 dB = 1.93 W/kg = 2.86 dBW/kg

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ID: 010

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Aux

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.753$ S/m; $\epsilon_r = 35.685$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5290 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.91 W/kg

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

Reference Value = 3.669 V/m; Power Drift = 0.07 dB

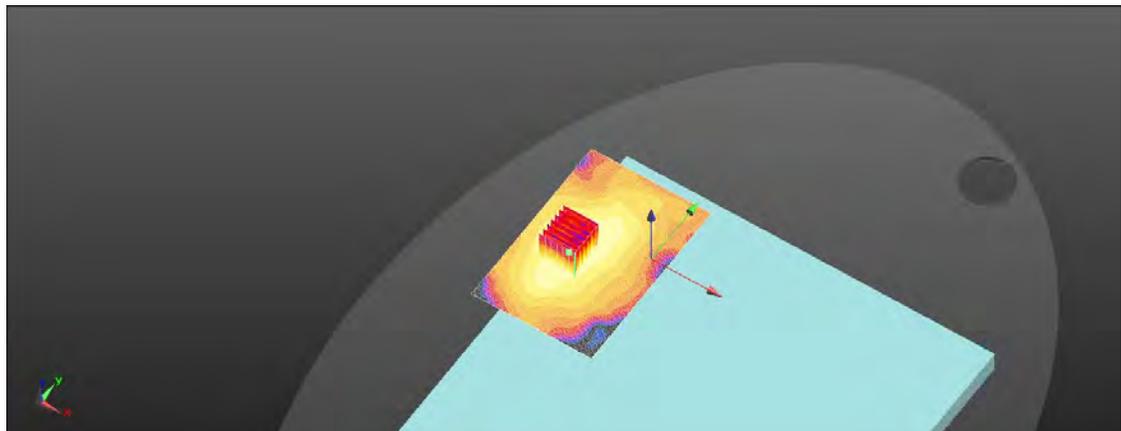
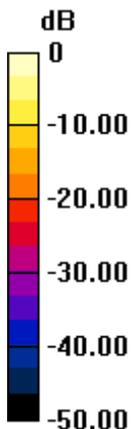
Peak SAR (extrapolated) = 3.40 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.427 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 62.4%

Maximum value of SAR (measured) = 2.05 W/kg



0 dB = 2.05 W/kg = 3.12 dBW/kg

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ID: 011

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Aux

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.268 \text{ S/m}$; $\epsilon_r = 34.931$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5690 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.79 W/kg

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

Reference Value = 3.525 V/m; Power Drift = 0.07 dB

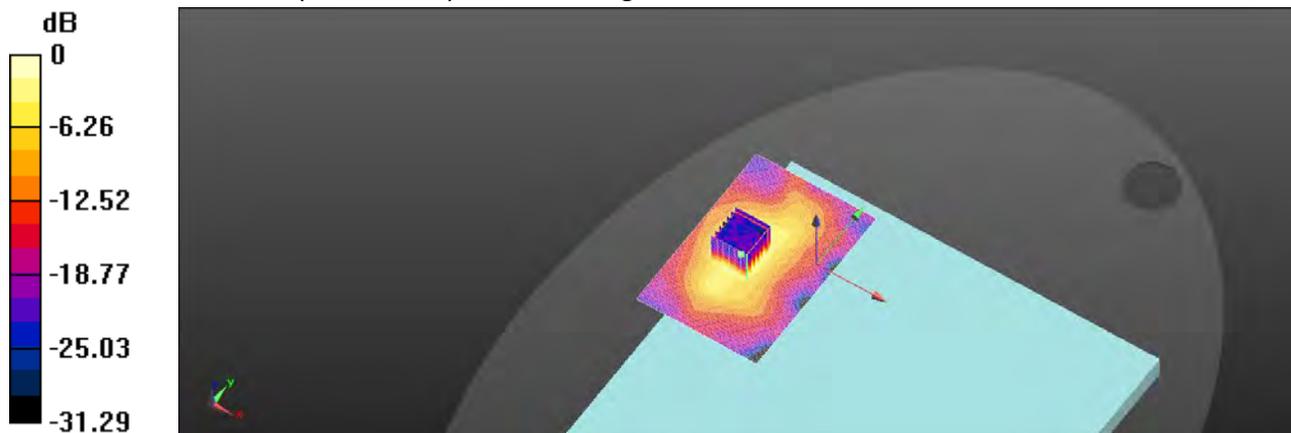
Peak SAR (extrapolated) = 3.75 W/kg

SAR(1 g) = 0.991 W/kg; SAR(10 g) = 0.328 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.5%

Maximum value of SAR (measured) = 1.92 W/kg



0 dB = 1.92 W/kg = 2.83 dBW/kg

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ID: 012

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Aux

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.389 \text{ S/m}$; $\epsilon_r = 34.778$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5775 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.75 W/kg

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

Reference Value = 3.144 V/m; Power Drift = 0.08 dB

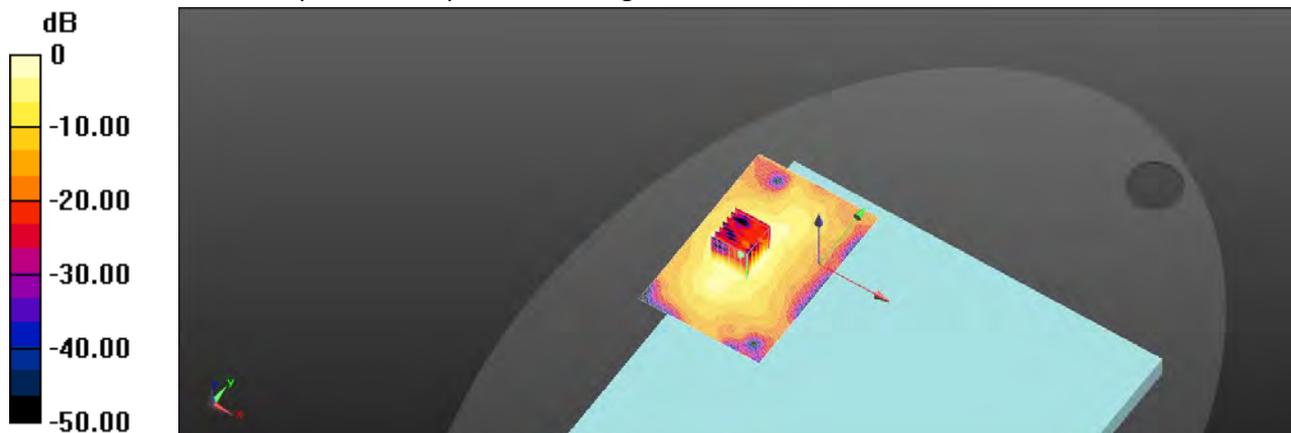
Peak SAR (extrapolated) = 3.64 W/kg

SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.300 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 1.92 W/kg



0 dB = 1.92 W/kg = 2.83 dBW/kg

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ID: 013

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-5, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Ambient temperature: 22.5°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	5.632	34.723

Hardware Setup

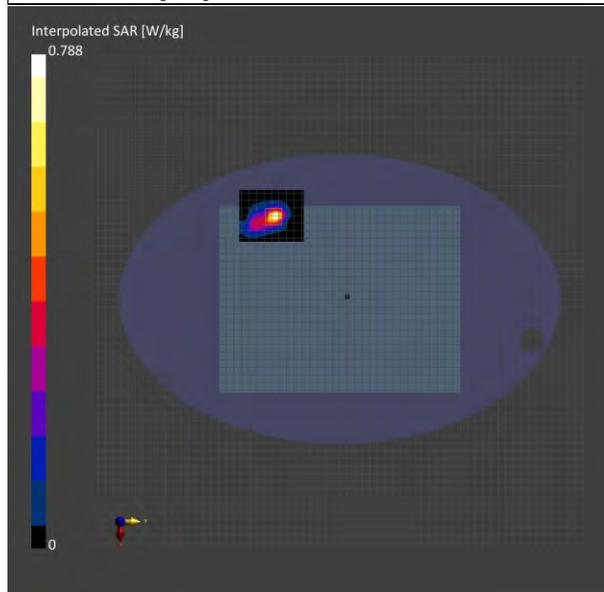
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.553	0.606
psSAR8g [W/kg]	0.206	0.219
psSAR10g [W/kg]	0.181	0.191
psPDab (4.0cm2, sq) [W/m2]		4.38
Power Drift [dB]	0.02	-0.05
M2/M1 [%]		60.5
Dist 3dB Peak [mm]		6.9



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ID: 014

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-6, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.5°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	6.198	34.278

Hardware Setup

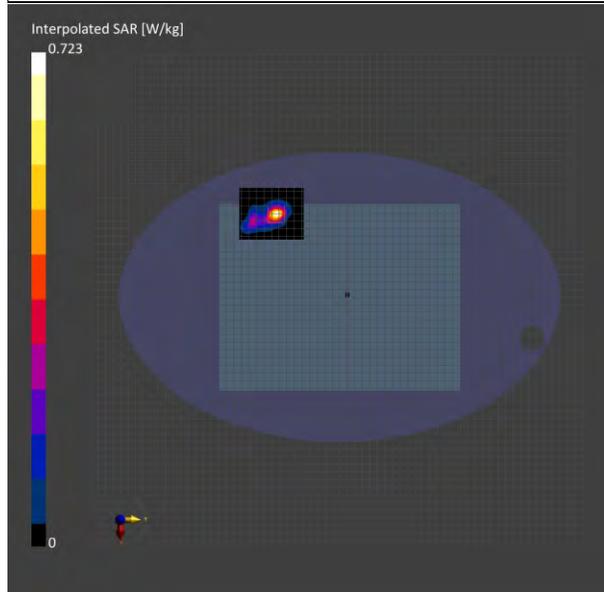
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.506	0.563
psSAR8g [W/kg]	0.178	0.194
psSAR10g [W/kg]	0.155	0.169
psPDab (4.0cm ² , sq) [W/m ²]		3.88
Power Drift [dB]	0.03	0.01
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		7.3



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ID: 015

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-7, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.5°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	6.38	34.1

Hardware Setup

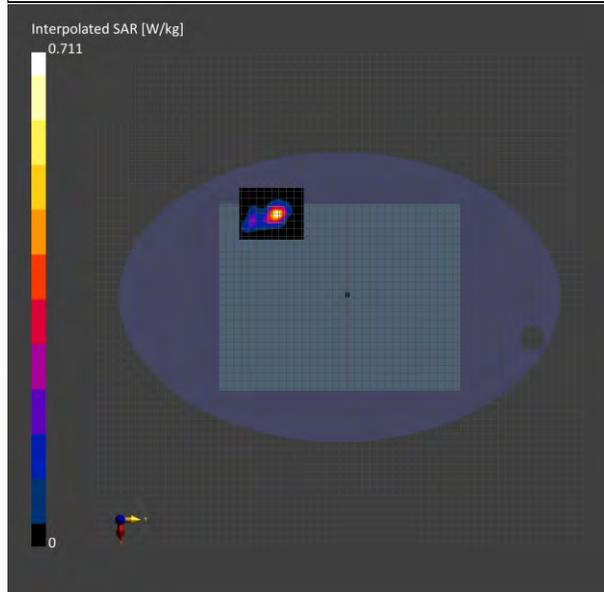
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.504	0.561
psSAR8g [W/kg]	0.176	0.194
psSAR10g [W/kg]	0.153	0.168
psPDab (4.0cm2, sq) [W/m2]		3.87
Power Drift [dB]	0.11	0.15
M2/M1 [%]		55.9
Dist 3dB Peak [mm]		7.3



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ID: 016

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-8, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	6.737	33.73

Hardware Setup

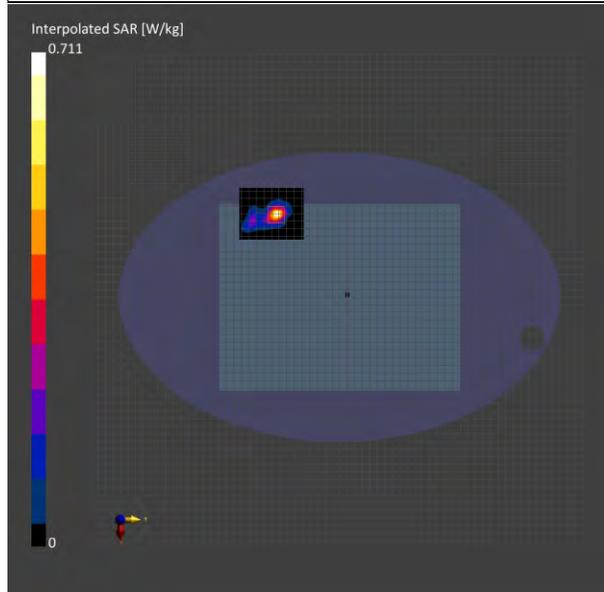
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.527	0.566
psSAR8g [W/kg]	0.186	0.198
psSAR10g [W/kg]	0.163	0.172
psPDab (4.0cm2, sq) [W/m2]		3.96
Power Drift [dB]	0.06	0.07
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		7.2



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ID: 017

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-5, Aux
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

Ambient temperature: 22.5°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	5.821	34.54

Hardware Setup

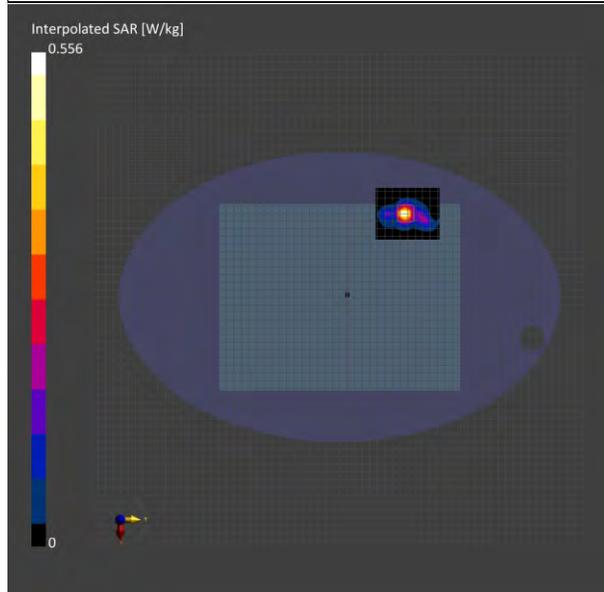
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.400	0.447
psSAR8g [W/kg]	0.142	0.159
psSAR10g [W/kg]	0.123	0.138
psPDab (4.0cm2, sq) [W/m2]		3.18
Power Drift [dB]	-0.01	0.06
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		7.9



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ID: 018

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-6, Aux
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.5°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	6.198	34.278

Hardware Setup

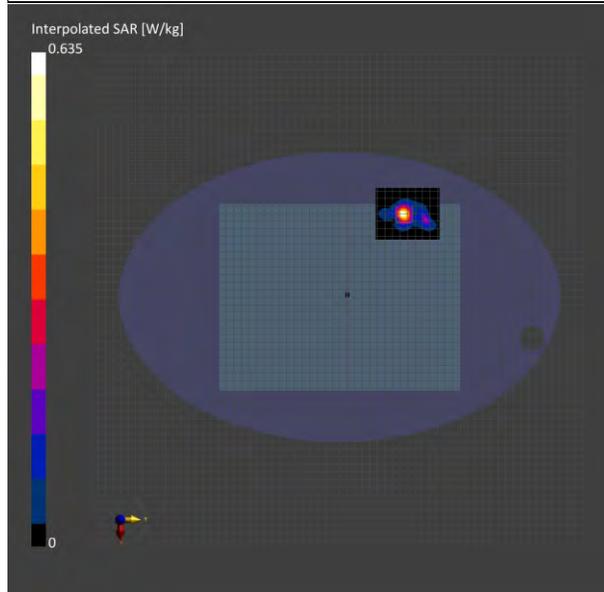
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.450	0.494
psSAR8g [W/kg]	0.154	0.172
psSAR10g [W/kg]	0.133	0.149
psPDab (4.0cm2, sq) [W/m2]		3.44
Power Drift [dB]	-0.02	0.07
M2/M1 [%]		58.6
Dist 3dB Peak [mm]		7.0



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ID: 019

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-7, Aux

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 175 (6825.0 MHz)

Ambient temperature: 22.5°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	6.563	33.916

Hardware Setup

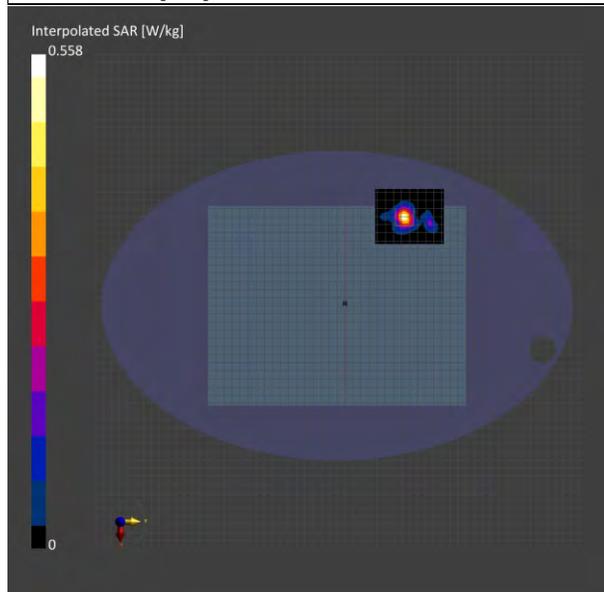
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.406	0.426
psSAR8g [W/kg]	0.139	0.153
psSAR10g [W/kg]	0.121	0.132
psPDab (4.0cm2, sq) [W/m2]		3.06
Power Drift [dB]	0.15	-0.13
M2/M1 [%]		57.3
Dist 3dB Peak [mm]		7.8



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ID: 020

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-8, Aux

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	6.737	33.73

Hardware Setup

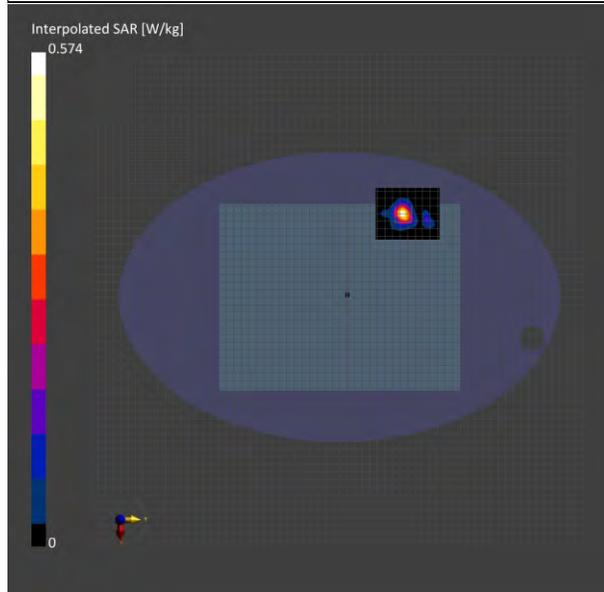
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.436	0.456
psSAR8g [W/kg]	0.154	0.165
psSAR10g [W/kg]	0.134	0.143
psPDab (4.0cm ² , sq) [W/m ²]		3.29
Power Drift [dB]	0.16	0.12
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		8.2



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ID: 021

Report No. :TESA2208000259EN

WLAN 802.11b_Body_Back Surface_CH 6_0mm_Main

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.03

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.718$ S/m; $\epsilon_r = 39.362$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2437 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.29 W/kg

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

Reference Value = 2.861 V/m; Power Drift = 0.08 dB

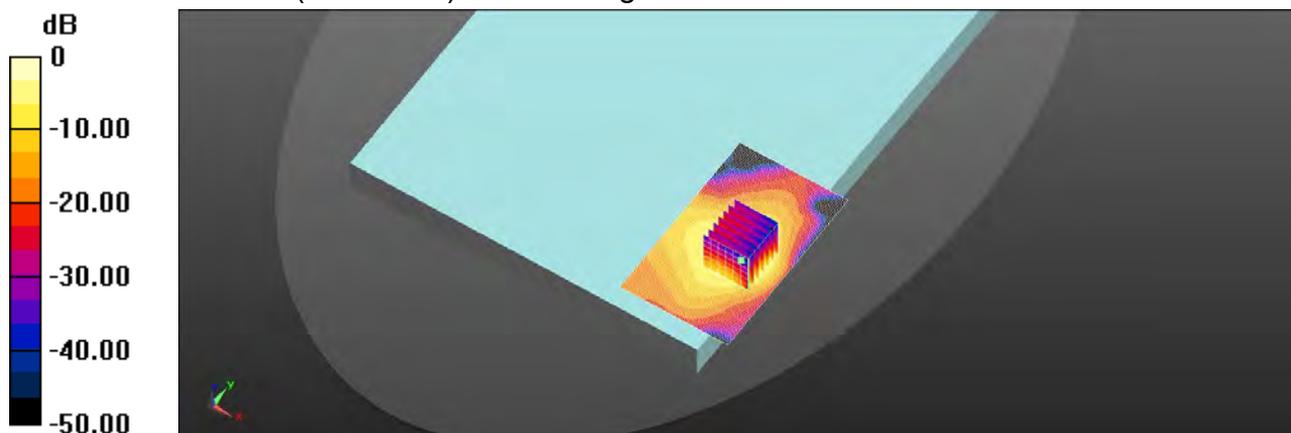
Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.714 W/kg; SAR(10 g) = 0.333 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 44.5%

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.29 W/kg = 1.09 dBW/kg

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ID: 022

Report No. :TESA2208000259EN

WLAN 802.11ac(160M) 5.2G_Body_Top Edge_CH 50_0mm_Main

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.699 \text{ S/m}$; $\epsilon_r = 35.795$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5250 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.66 W/kg

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

Reference Value = 3.516 V/m; Power Drift = 0.17 dB

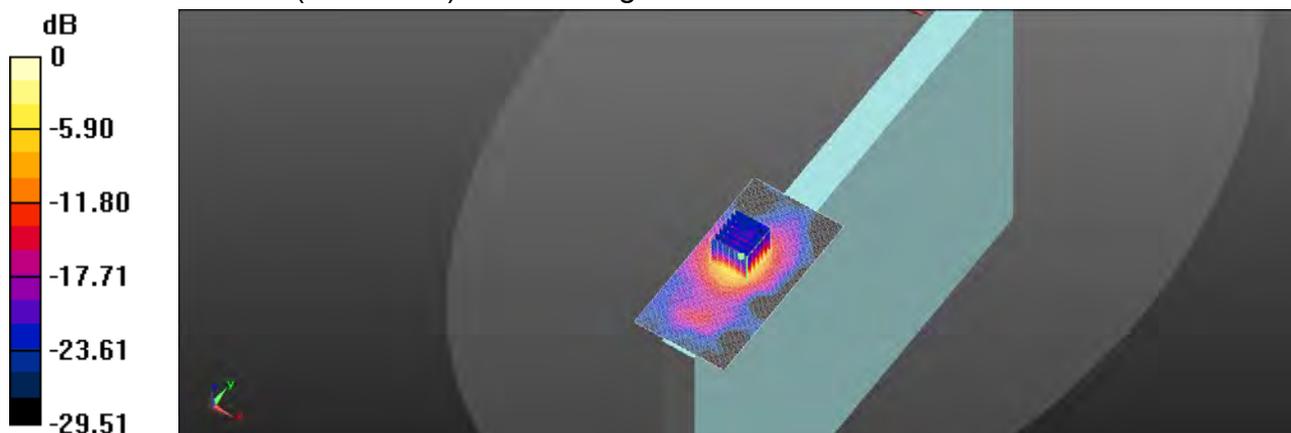
Peak SAR (extrapolated) = 3.60 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.318 W/kg

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

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

Maximum value of SAR (measured) = 1.94 W/kg



0 dB = 1.94 W/kg = 2.88 dBW/kg

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ID: 023

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.6G_Body_Back Surface_CH 106_0mm_Main

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.056 \text{ S/m}$; $\epsilon_r = 35.337$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5530 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 2.09 W/kg

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

Reference Value = 3.772 V/m; Power Drift = 0.07 dB

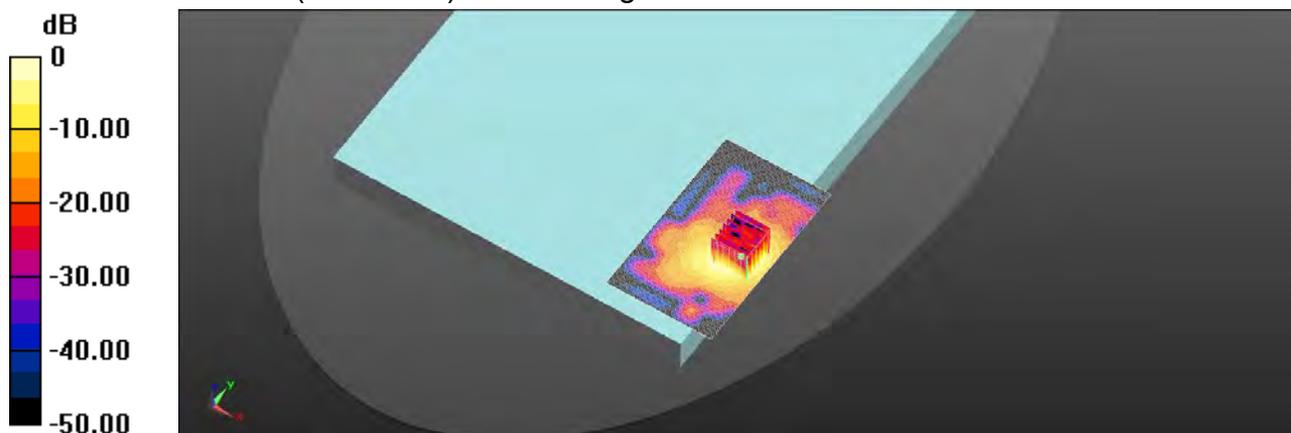
Peak SAR (extrapolated) = 4.17 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.271 W/kg

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

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

Maximum value of SAR (measured) = 2.17 W/kg



0 dB = 2.17 W/kg = 3.36 dBW/kg

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ID: 024

Report No. :TESA2208000259EN

WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_0mm_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.102 \text{ S/m}$; $\epsilon_r = 35.236$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 2.06 W/kg

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

Reference Value = 3.158 V/m; Power Drift = 0.09 dB

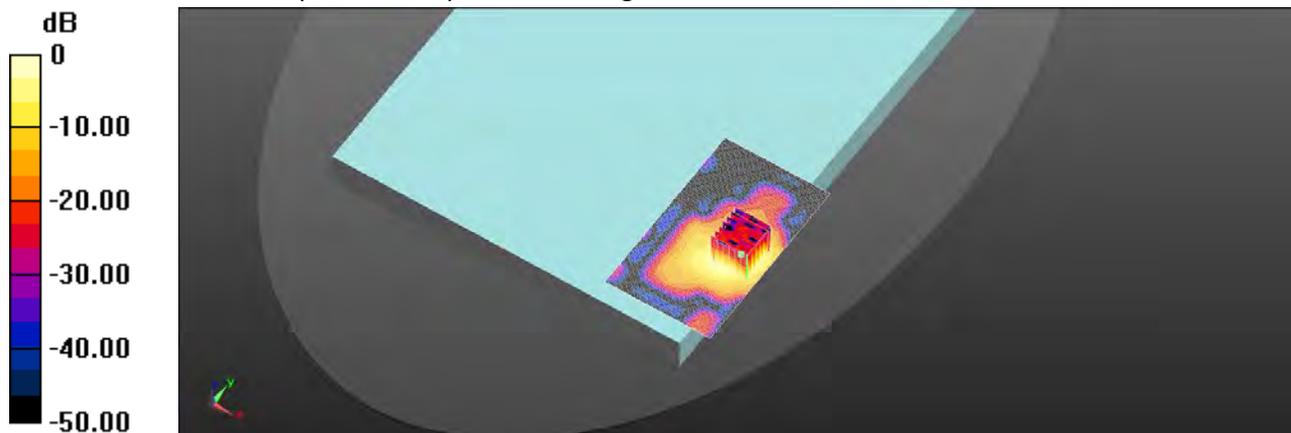
Peak SAR (extrapolated) = 4.22 W/kg

SAR(1 g) = 0.995 W/kg; SAR(10 g) = 0.269 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.8%

Maximum value of SAR (measured) = 2.17 W/kg



0 dB = 2.17 W/kg = 3.36 dBW/kg

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ID: 025

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Main

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.389 \text{ S/m}$; $\epsilon_r = 34.778$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5775 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.93 W/kg

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

Reference Value = 3.238 V/m; Power Drift = 0.07 dB

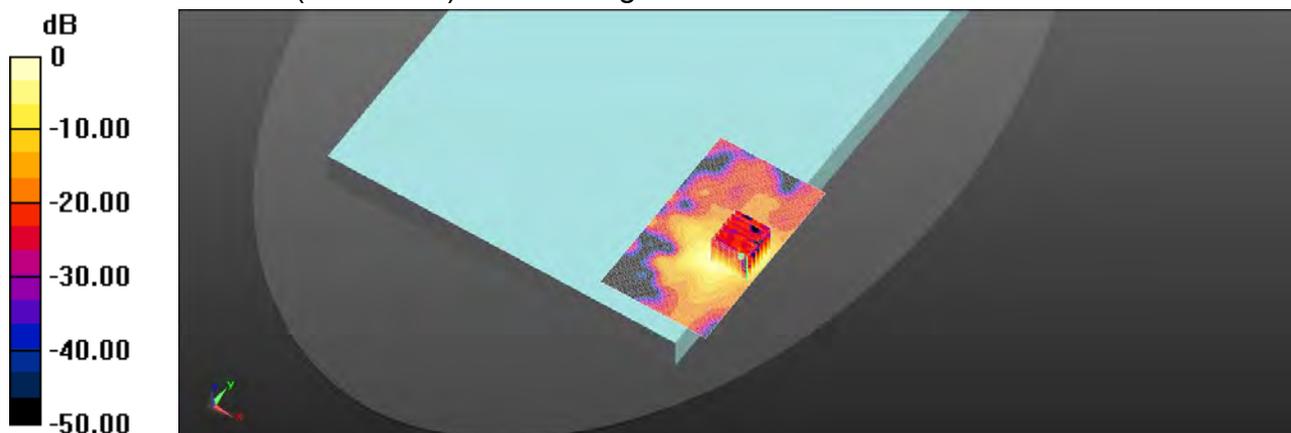
Peak SAR (extrapolated) = 5.24 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.295 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53%

Maximum value of SAR (measured) = 2.38 W/kg



0 dB = 2.38 W/kg = 3.77 dBW/kg

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ID: 026

Report No. :TESA2208000259EN

WLAN 802.11b_Body_Back Surface_CH 11_0mm_Aux

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.03

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.737 \text{ S/m}$; $\epsilon_r = 39.334$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2462 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.48 W/kg

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

Reference Value = 2.887 V/m; Power Drift = 0.08 dB

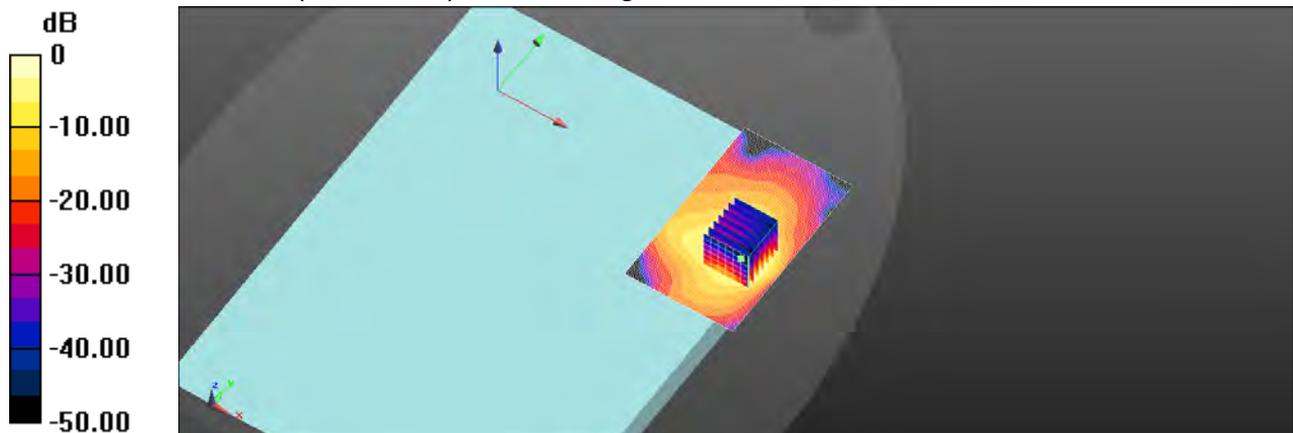
Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 0.911 W/kg; SAR(10 g) = 0.412 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 46.8%

Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.48 W/kg = 1.69 dBW/kg

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ID: 027

Report No. :TESA2208000259EN

Bluetooth(GFSK)_Body_Back Surface_CH 39_0mm_Aux

Communication System: Bluetooth; Frequency: 2441 MHz; Duty cycle= 1:1.318

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.722$ S/m; $\epsilon_r = 39.356$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2441 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.450 W/kg

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

Reference Value = 3.288 V/m; Power Drift = 0.12 dB

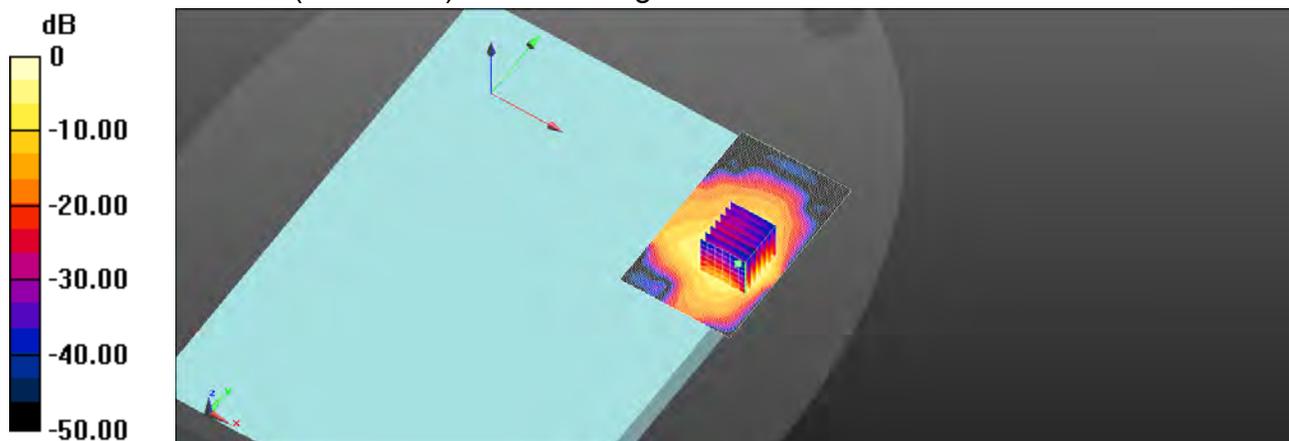
Peak SAR (extrapolated) = 0.613 W/kg

SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.137 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

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

Maximum value of SAR (measured) = 0.422 W/kg



0 dB = 0.450 W/kg = -3.46 dBW/kg

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ID: 028

Report No. :TESA2208000259EN

WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_0mm_Aux

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.699 \text{ S/m}$; $\epsilon_r = 35.795$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5250 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.63 W/kg

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

Reference Value = 3.104 V/m; Power Drift = 0.12 dB

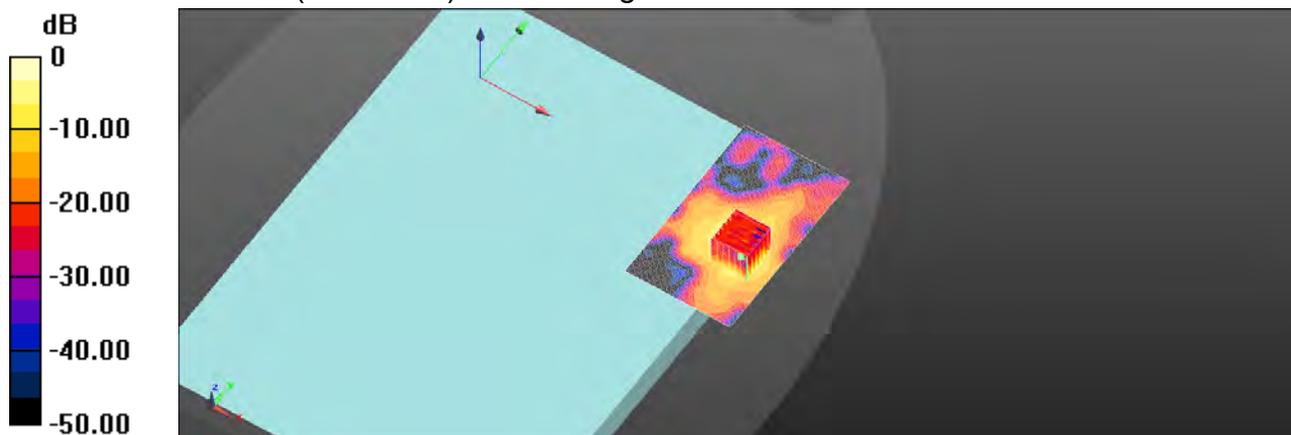
Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 0.915 W/kg; SAR(10 g) = 0.236 W/kg

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

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

Maximum value of SAR (measured) = 1.99 W/kg



0 dB = 1.99 W/kg = 2.99 dBW/kg

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ID: 029

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.6G_Body_Back Surface_CH 138_0mm_Aux

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.268 \text{ S/m}$; $\epsilon_r = 34.931$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5690 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.71 W/kg

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

Reference Value = 3.874 V/m; Power Drift = 0.18 dB

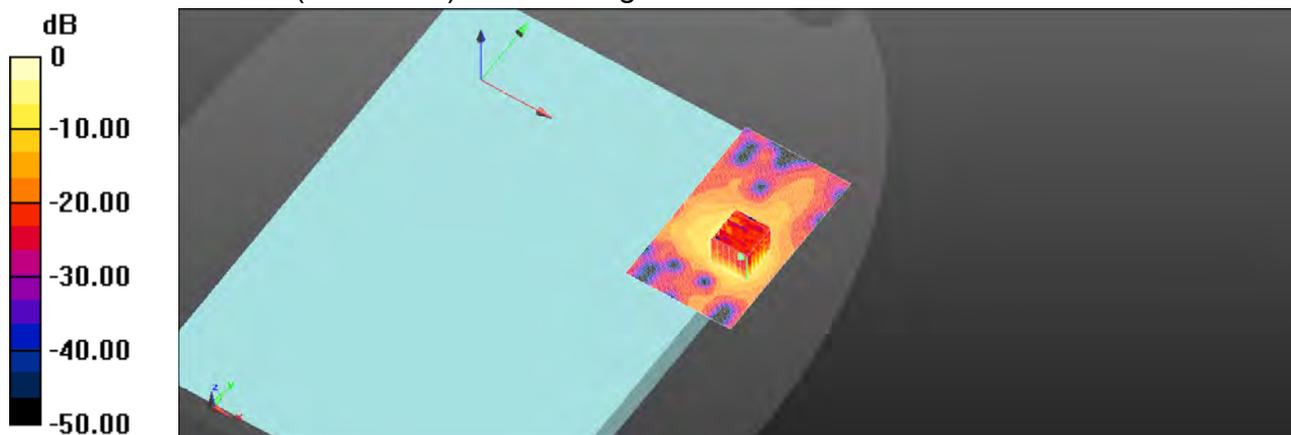
Peak SAR (extrapolated) = 4.54 W/kg

SAR(1 g) = 0.976 W/kg; SAR(10 g) = 0.258 W/kg

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

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

Maximum value of SAR (measured) = 2.22 W/kg



0 dB = 2.22 W/kg = 3.46 dBW/kg

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ID: 030

Report No. :TESA2208000259EN

WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_0mm_Aux

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.102 \text{ S/m}$; $\epsilon_r = 35.236$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.56 W/kg

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

Reference Value = 3.259 V/m; Power Drift = 0.07 dB

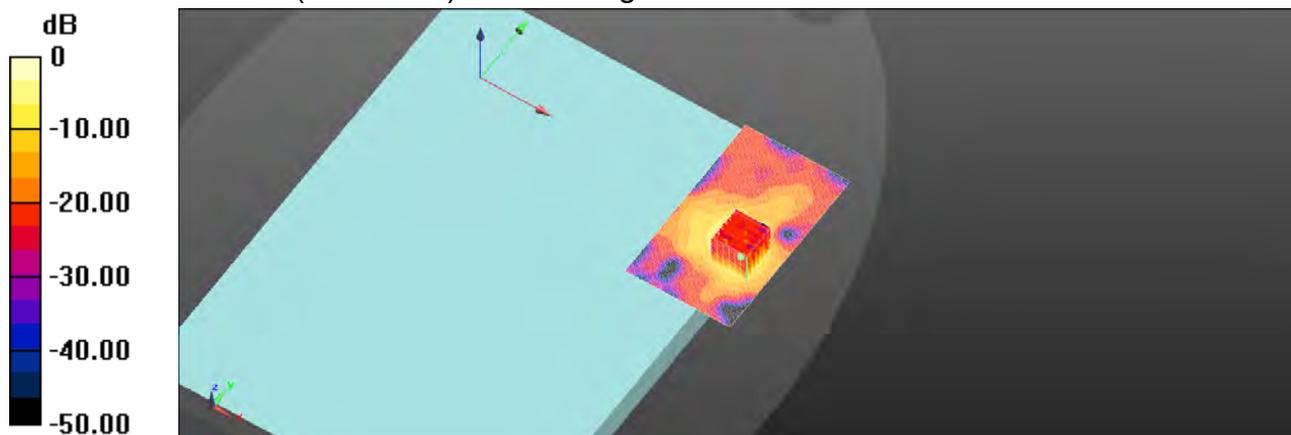
Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 0.888 W/kg; SAR(10 g) = 0.230 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%

Maximum value of SAR (measured) = 1.95 W/kg



0 dB = 1.95 W/kg = 2.90 dBW/kg

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Date: 2022/8/18

ID: 031

Report No. : TESA2208000259EN

WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Aux

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.389 \text{ S/m}$; $\epsilon_r = 34.778$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5775 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.82 W/kg

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

Reference Value = 3.155 V/m; Power Drift = 0.08 dB

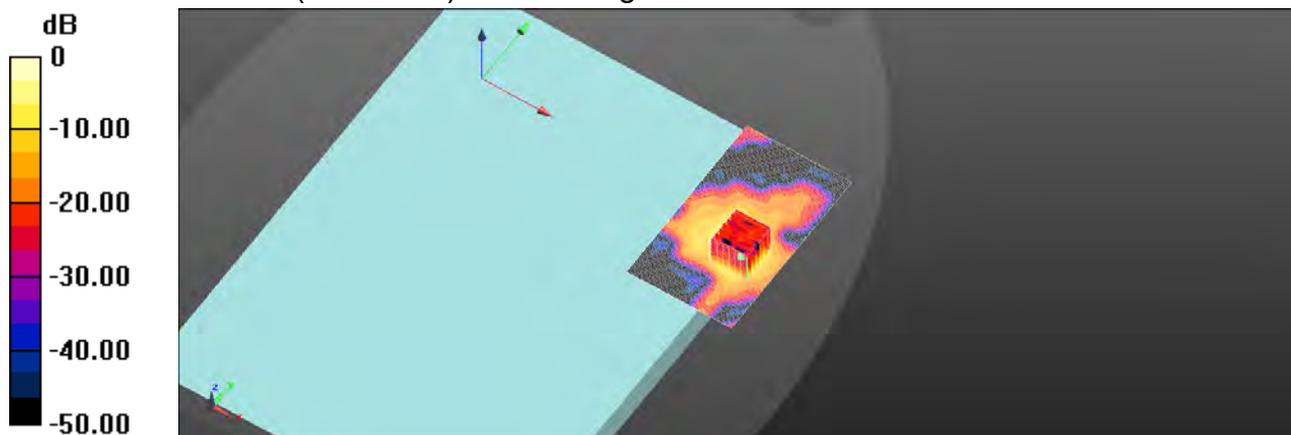
Peak SAR (extrapolated) = 4.69 W/kg

SAR(1 g) = 0.979 W/kg; SAR(10 g) = 0.252 W/kg

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

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

Maximum value of SAR (measured) = 2.28 W/kg



0 dB = 2.28 W/kg = 3.58 dBW/kg

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ID: 032

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-5, Main

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Ambient temperature: 22.5°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	Back Surface, 0.00	5.65	5.632	34.723

Hardware Setup

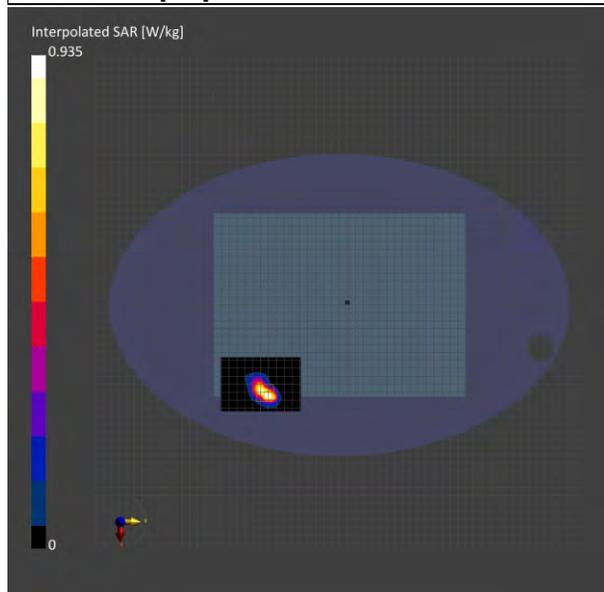
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.660	0.852
psSAR8g [W/kg]	0.258	0.295
psSAR10g [W/kg]	0.229	0.258
psPDab (4.0cm2, sq) [W/m2]		5.90
Power Drift [dB]	0.01	0.03
M2/M1 [%]		59.1
Dist 3dB Peak [mm]		5.4



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ID: 033

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-6, Main

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.5°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	6.198	34.278

Hardware Setup

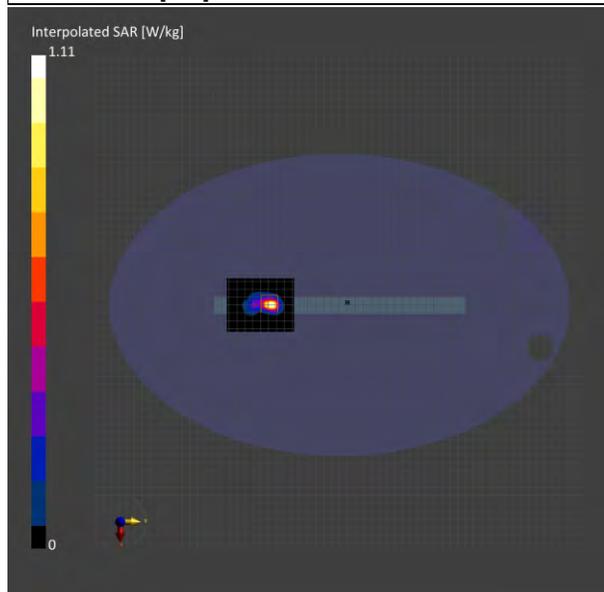
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.773	0.851
psSAR8g [W/kg]	0.242	0.257
psSAR10g [W/kg]	0.208	0.218
psPDab (4.0cm2, sq) [W/m2]		5.15
Power Drift [dB]	0.05	0.03
M2/M1 [%]		56.6
Dist 3dB Peak [mm]		5.8



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ID: 034

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-7, Main

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.5°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	6.38	34.1

Hardware Setup

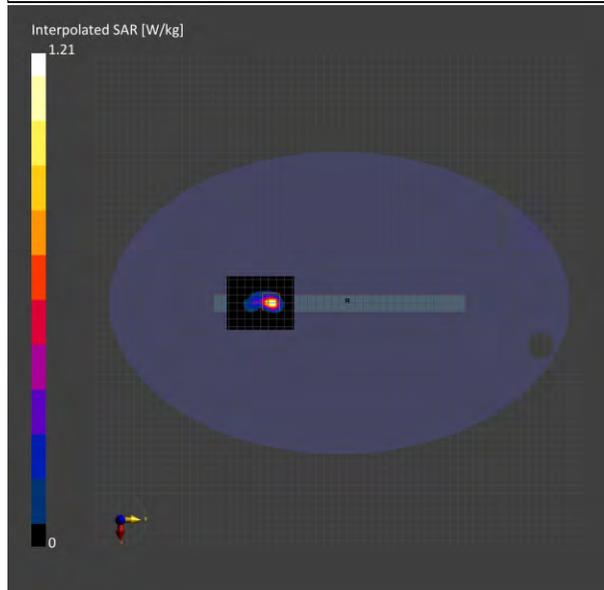
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.822	0.934
psSAR8g [W/kg]	0.252	0.281
psSAR10g [W/kg]	0.215	0.239
psPDab (4.0cm2, sq) [W/m2]		5.61
Power Drift [dB]	0.02	0.09
M2/M1 [%]		55.1
Dist 3dB Peak [mm]		5.8



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ID: 035

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-8, Main

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.85	6.737	33.73

Hardware Setup

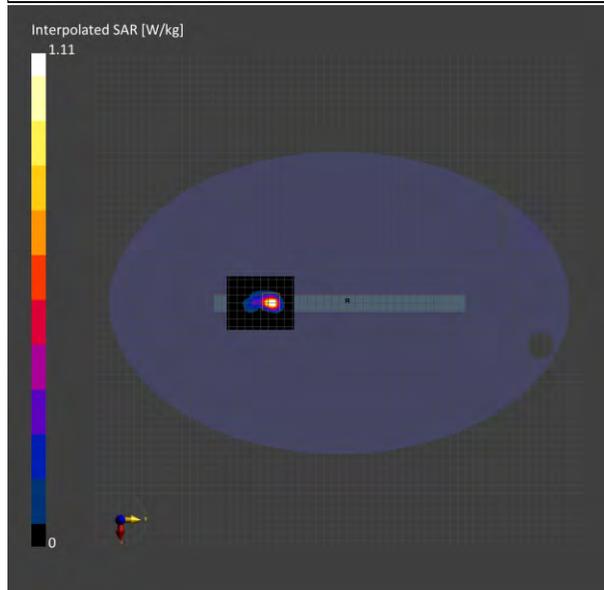
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.968	1.02
psSAR8g [W/kg]	0.305	0.309
psSAR10g [W/kg]	0.263	0.264
psPDab (4.0cm2, sq) [W/m2]		6.18
Power Drift [dB]	0.09	0.06
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		5.6



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ID: 036

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body ,Top Edge, U-NII-5, Aux

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Ambient temperature: 22.5°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	5.632	34.723

Hardware Setup

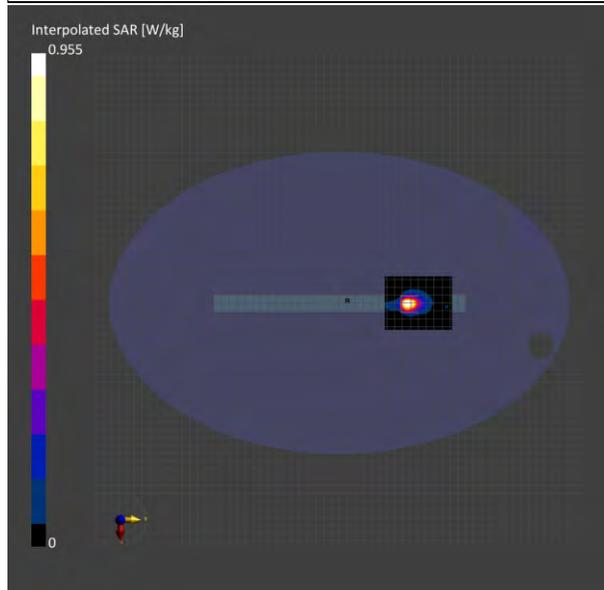
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.763	0.829
psSAR8g [W/kg]	0.248	0.268
psSAR10g [W/kg]	0.213	0.230
psPDab (4.0cm2, sq) [W/m2]		5.35
Power Drift [dB]	-0.01	-0.03
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		6.1



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ID: 037

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-6, Aux

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.5°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	6.198	34.278

Hardware Setup

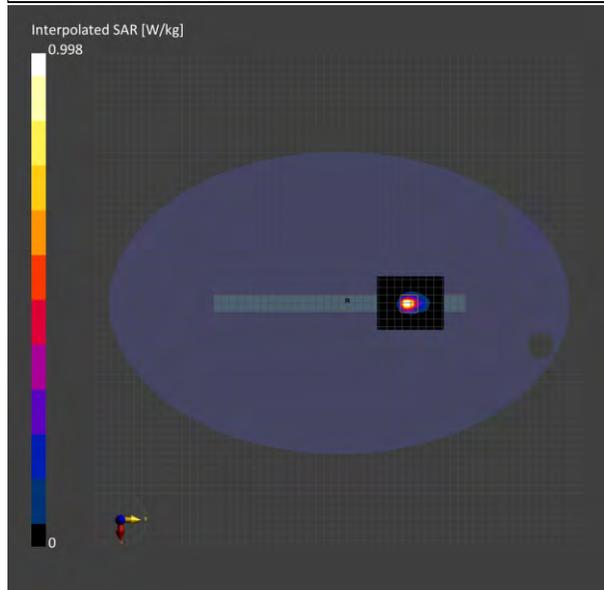
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.728	0.801
psSAR8g [W/kg]	0.226	0.251
psSAR10g [W/kg]	0.193	0.215
psPDab (4.0cm2, sq) [W/m2]		5.02
Power Drift [dB]	-0.01	0.09
M2/M1 [%]		56.8
Dist 3dB Peak [mm]		5.6



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ID: 038

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-7, Aux

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 175 (6825.0 MHz)

Ambient temperature: 22.5°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	6.563	33.916

Hardware Setup

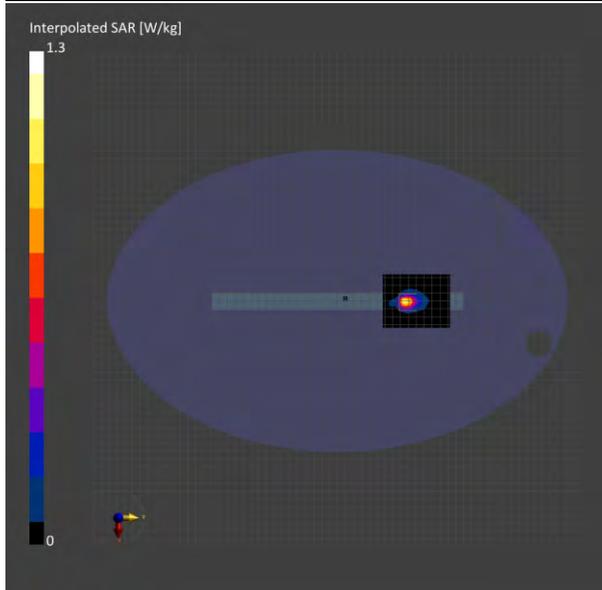
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.822	0.873
psSAR8g [W/kg]	0.251	0.259
psSAR10g [W/kg]	0.214	0.221
psPDab (4.0cm2, sq) [W/m2]		5.17
Power Drift [dB]	0.02	0.05
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		5.8



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ID: 039

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-8, Aux

IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 183 (6865.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	6.608	33.865

Hardware Setup

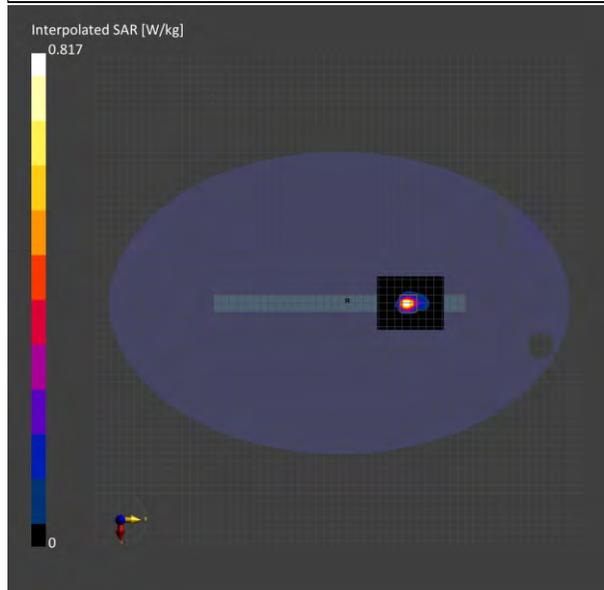
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.604	0.652
psSAR8g [W/kg]	0.187	0.202
psSAR10g [W/kg]	0.160	0.173
psPDab (4.0cm2, sq) [W/m2]		4.04
Power Drift [dB]	0.16	0.16
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		6.1



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ID: 050

Report No. :TESA2208000259EN

WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Main

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.03

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.737$ S/m; $\epsilon_r = 39.334$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2462 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.61 W/kg

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

Reference Value = 3.682 V/m; Power Drift = 0.04 dB

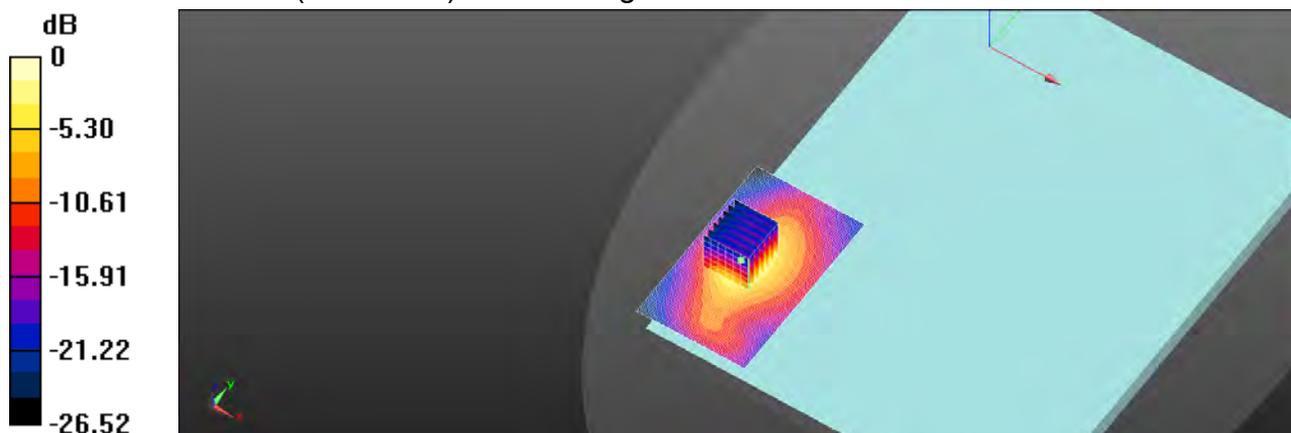
Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.457 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 42.3%

Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.61 W/kg = 2.08 dBW/kg

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ID: 051

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_0mm_Main

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.612 \text{ S/m}$; $\epsilon_r = 36.118$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5210 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.05 W/kg

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

Reference Value = 3.482 V/m; Power Drift = 0.09 dB

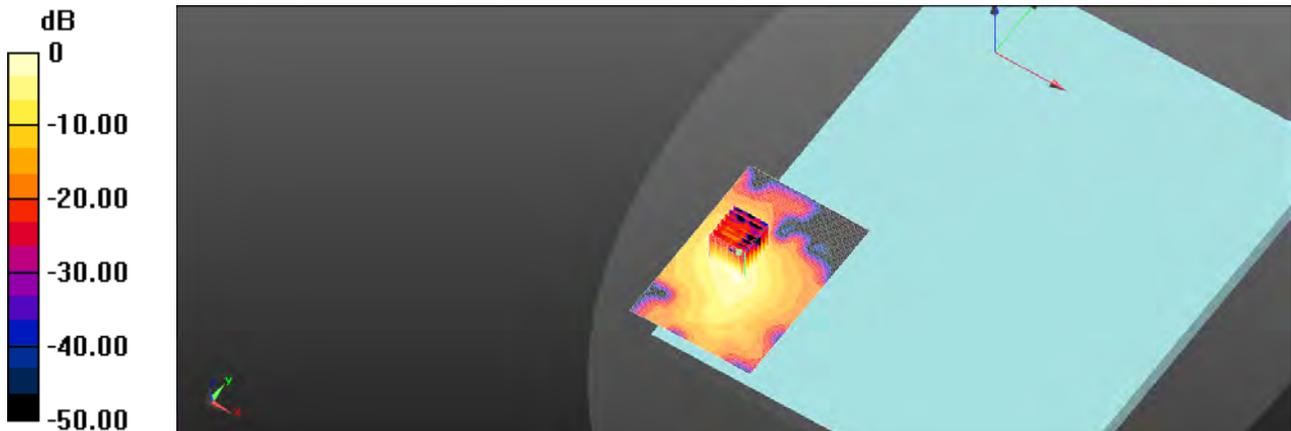
Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.338 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

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

Maximum value of SAR (measured) = 2.01 W/kg



0 dB = 2.01 W/kg = 3.03 dBW/kg

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ID: 052

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Main

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.733 \text{ S/m}$; $\epsilon_r = 35.932$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5290 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 3.738 V/m; Power Drift = -0.06 dB

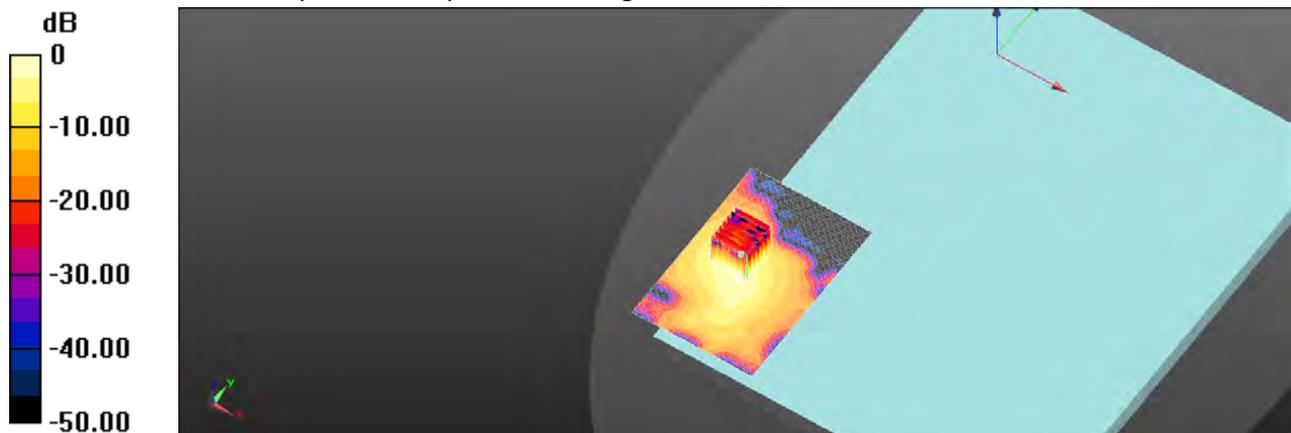
Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.333 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.7%

Maximum value of SAR (measured) = 1.98 W/kg



0 dB = 1.98 W/kg = 2.97 dBW/kg

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ID: 053

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 106_0mm_Main

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.035 \text{ S/m}$; $\epsilon_r = 35.584$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5530 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.50 W/kg

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

Reference Value = 2.683 V/m; Power Drift = 0.07 dB

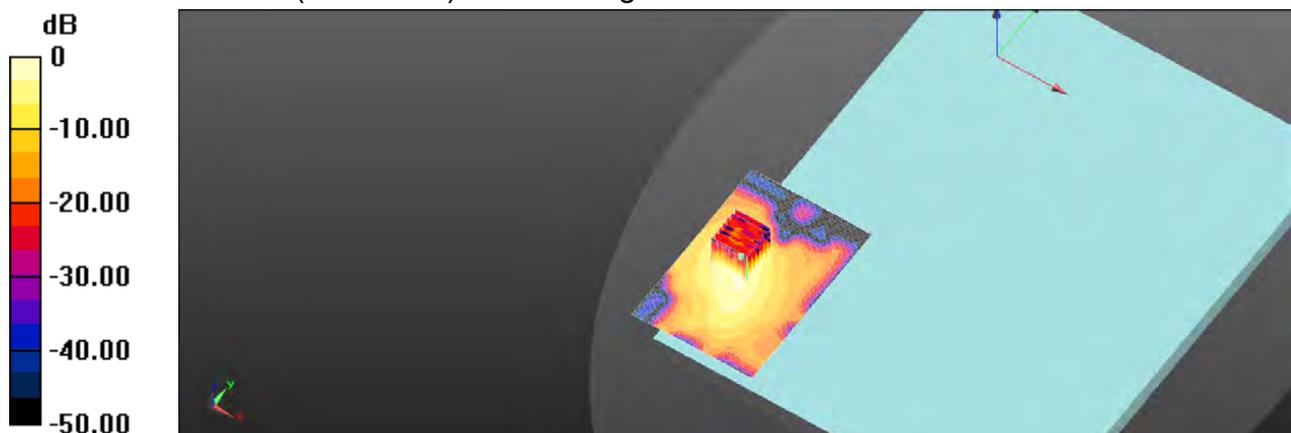
Peak SAR (extrapolated) = 2.76 W/kg

SAR(1 g) = 0.770 W/kg; SAR(10 g) = 0.245 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.4%

Maximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

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ID: 054

Report No. :TESA2208000259EN

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_0mm_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.081 \text{ S/m}$; $\epsilon_r = 35.483$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 2.758 V/m; Power Drift = 0.12 dB

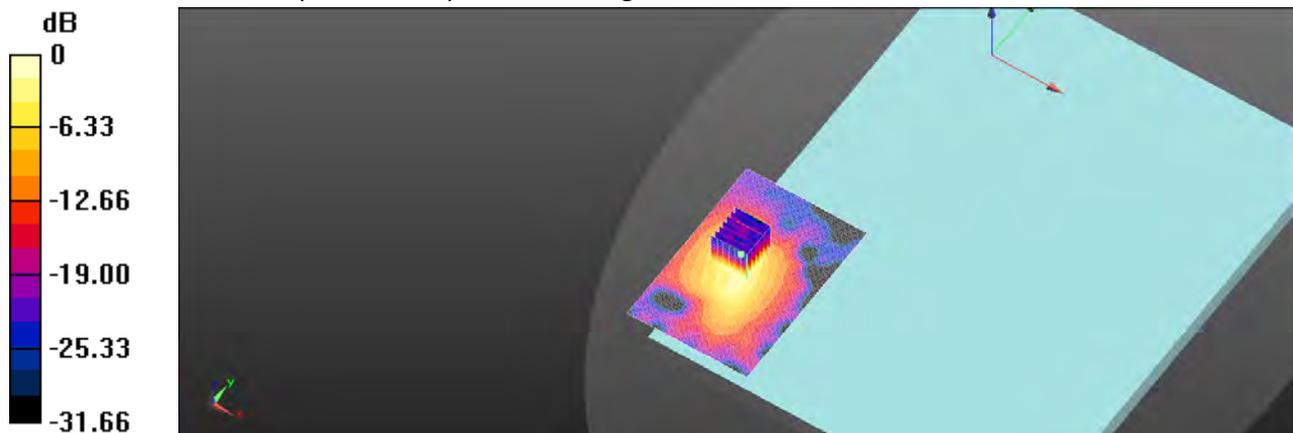
Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 0.792 W/kg; SAR(10 g) = 0.290 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 59.6%

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



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

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ID: 055

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Main

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.389 \text{ S/m}$; $\epsilon_r = 34.778$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5775 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.62 W/kg

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

Reference Value = 3.138 V/m; Power Drift = 0.12 dB

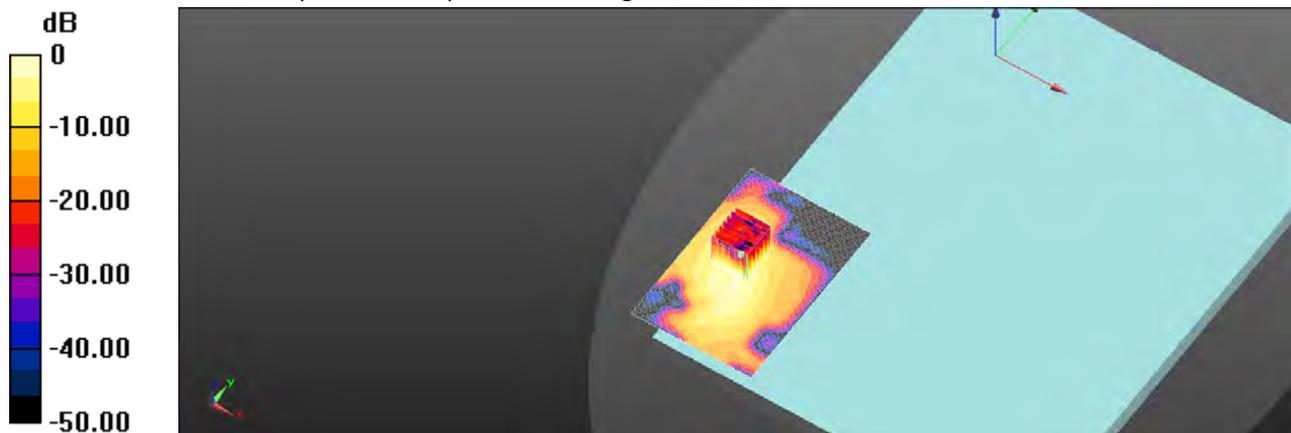
Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.253 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

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ID: 056

Report No. :TESA2208000259EN

WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Aux

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.03

Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.718 \text{ S/m}$; $\epsilon_r = 39.362$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2437 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.46 W/kg

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

Reference Value = 3.571 V/m; Power Drift = 0.09 dB

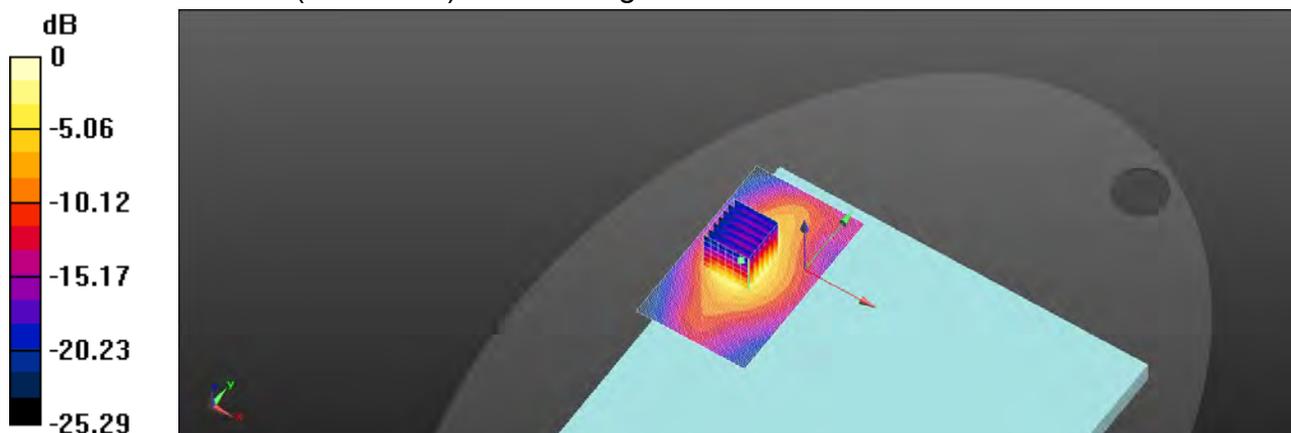
Peak SAR (extrapolated) = 2.08 W/kg

SAR(1 g) = 0.950 W/kg; SAR(10 g) = 0.443 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

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

Maximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.46 W/kg = 1.65 dBW/kg

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Date: 2022/8/13

ID: 057

Report No. :TESA2208000259EN

Bluetooth(GFSK)_Body_Bottom Surface_CH 39_0mm_Aux

Communication System: Bluetooth; Frequency: 2441 MHz; Duty cycle= 1:1.318

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.722$ S/m; $\epsilon_r = 39.356$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2441 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.195 W/kg

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

Reference Value = 2.106 V/m; Power Drift = 0.17 dB

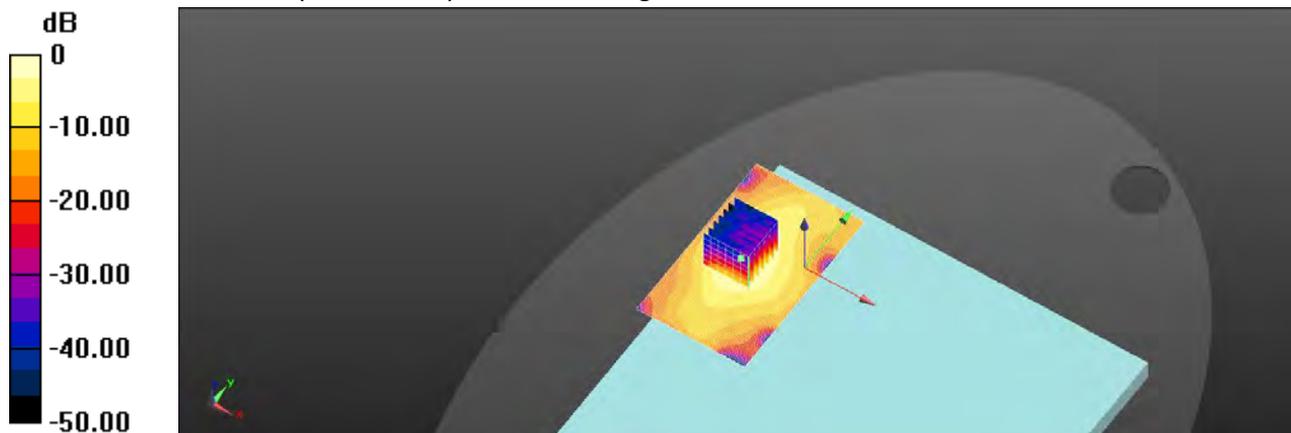
Peak SAR (extrapolated) = 0.276 W/kg

SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.059 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.9%

Maximum value of SAR (measured) = 0.201 W/kg



0 dB = 0.195 W/kg = -7.11 dBW/kg

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ID: 058

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_0mm_Aux

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.612 \text{ S/m}$; $\epsilon_r = 36.118$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5210 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): 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 = 2.604 V/m; Power Drift = 0.05 dB

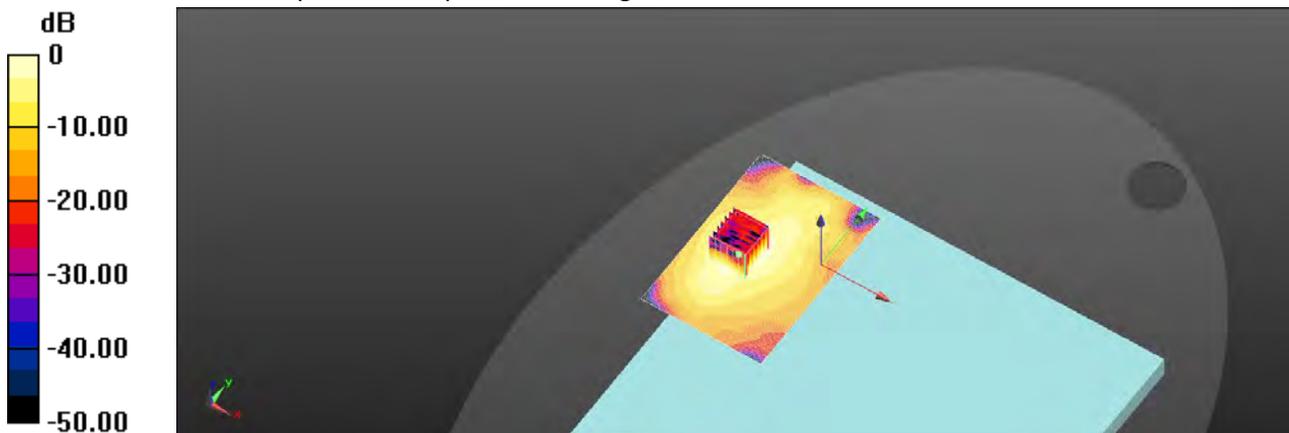
Peak SAR (extrapolated) = 2.43 W/kg

SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.292 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 60.5%

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



0 dB = 1.42 W/kg = 1.52 dBW/kg

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ID: 059

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Aux

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.733 \text{ S/m}$; $\epsilon_r = 35.932$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5290 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 3.207 V/m; Power Drift = 0.15 dB

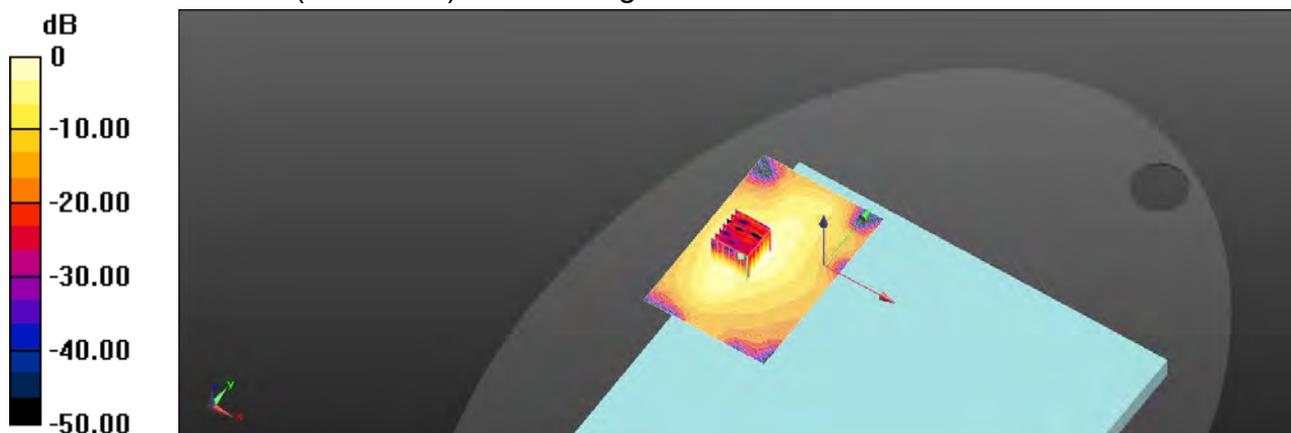
Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 0.730 W/kg; SAR(10 g) = 0.272 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 60.1%

Maximum value of SAR (measured) = 1.36 W/kg



0 dB = 1.36 W/kg = 1.34 dBW/kg

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ID: 060

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 106_0mm_Aux

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.035 \text{ S/m}$; $\epsilon_r = 35.584$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5530 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.32 W/kg

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

Reference Value = 3.497 V/m; Power Drift = 0.12 dB

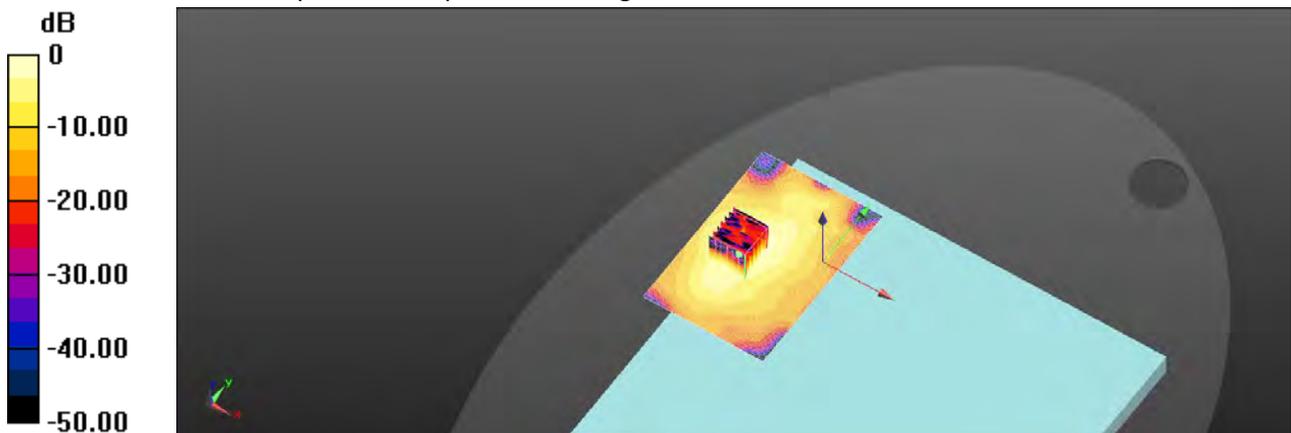
Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 0.744 W/kg; SAR(10 g) = 0.262 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.6%

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



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

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ID: 061

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Aux

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.389 \text{ S/m}$; $\epsilon_r = 34.778$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5775 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 2.811 V/m; Power Drift = 0.07 dB

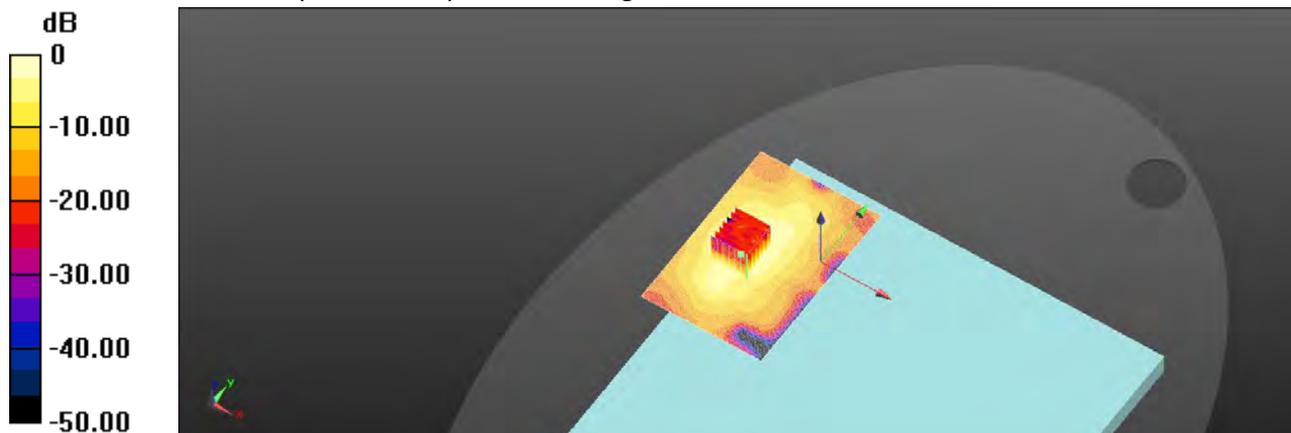
Peak SAR (extrapolated) = 2.06 W/kg

SAR(1 g) = 0.698 W/kg; SAR(10 g) = 0.262 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.3%

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



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

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ID: 062

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-5, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Ambient temperature: 22.5°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	5.632	34.723

Hardware Setup

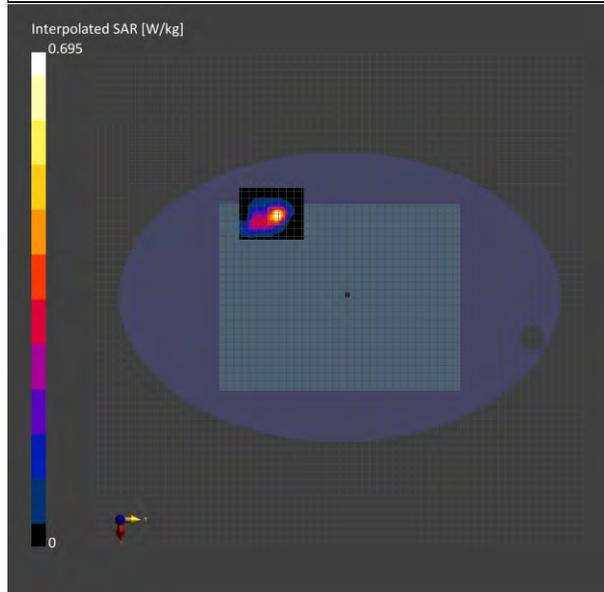
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.479	0.543
psSAR8g [W/kg]	0.180	0.198
psSAR10g [W/kg]	0.159	0.173
psPDab (4.0cm2, sq) [W/m2]		3.95
Power Drift [dB]	0.05	0.05
M2/M1 [%]		59.3
Dist 3dB Peak [mm]		7.3



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ID: 063

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-6, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.5°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	6.198	34.278

Hardware Setup

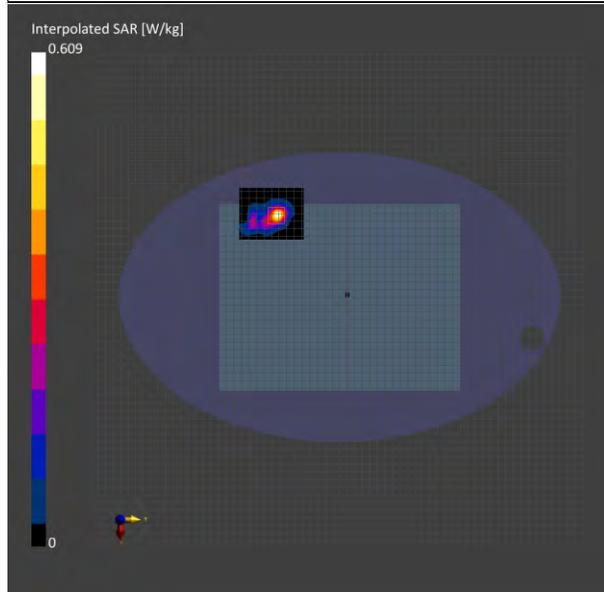
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.433	0.477
psSAR8g [W/kg]	0.157	0.171
psSAR10g [W/kg]	0.138	0.149
psPDab (4.0cm2, sq) [W/m2]		3.42
Power Drift [dB]	0.08	0.04
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		7.6



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ID: 064

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-7, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.5°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	6.38	34.1

Hardware Setup

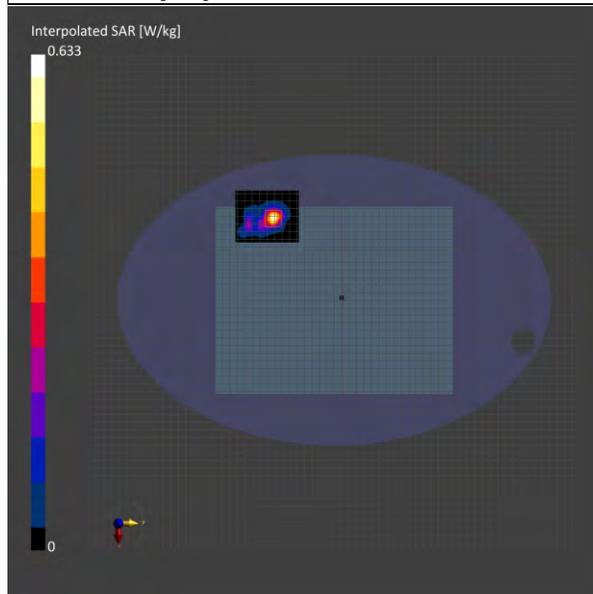
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.456	0.487
psSAR8g [W/kg]	0.163	0.172
psSAR10g [W/kg]	0.143	0.150
psPDab (4.0cm2, sq) [W/m2]		3.44
Power Drift [dB]	-0.03	0.03
M2/M1 [%]		55.6
Dist 3dB Peak [mm]		7.4



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ID: 065

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-8, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	6.737	33.73

Hardware Setup

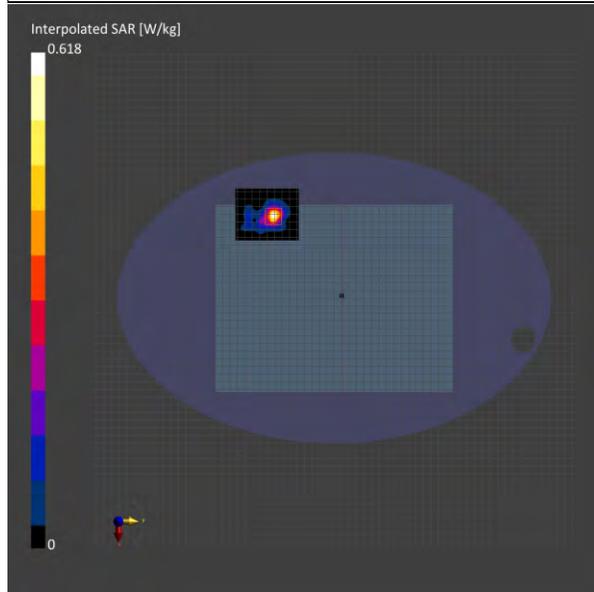
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.465	0.483
psSAR8g [W/kg]	0.164	0.171
psSAR10g [W/kg]	0.144	0.149
psPDab (4.0cm2, sq) [W/m2]		3.42
Power Drift [dB]	0.03	-0.02
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		7.8



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ID: 066

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-5, Aux
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

Ambient temperature: 22.5°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	5.821	34.54

Hardware Setup

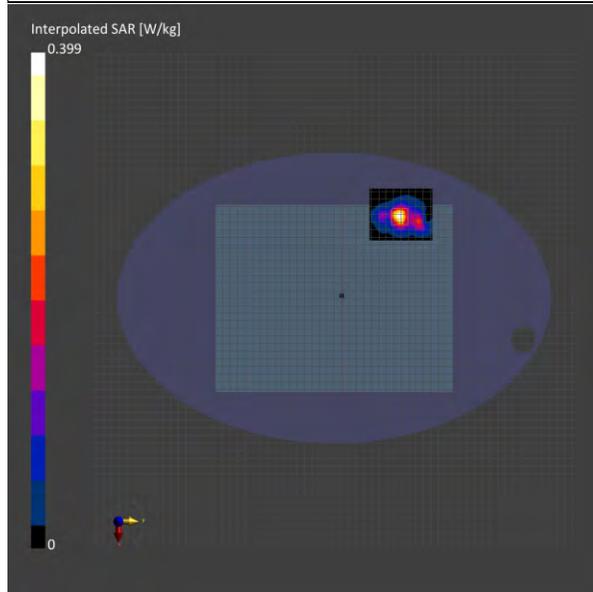
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.292	0.321
psSAR8g [W/kg]	0.110	0.119
psSAR10g [W/kg]	0.097	0.105
psPDab (4.0cm2, sq) [W/m2]		2.38
Power Drift [dB]	-0.07	0.10
M2/M1 [%]		60.2
Dist 3dB Peak [mm]		7.7



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ID: 067

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-6, Aux
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.5°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	6.198	34.278

Hardware Setup

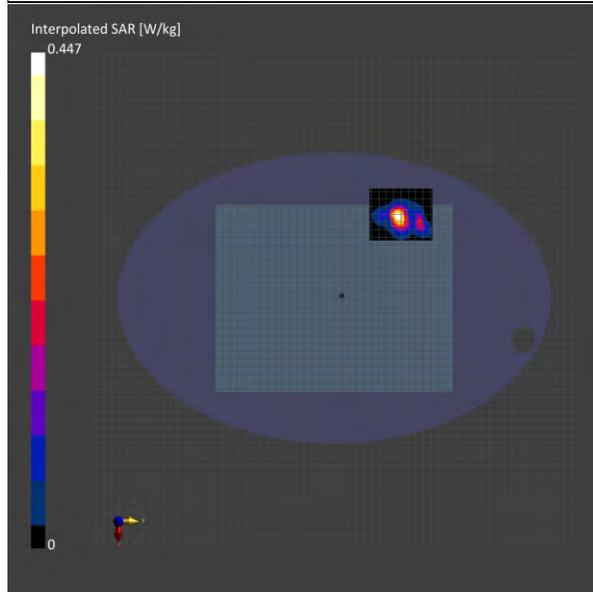
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.349	0.371
psSAR8g [W/kg]	0.131	0.139
psSAR10g [W/kg]	0.115	0.122
psPDab (4.0cm2, sq) [W/m2]		2.78
Power Drift [dB]	-0.12	0.08
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		7.7



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ID: 068

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-7, Aux

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 175 (6825.0 MHz)

Ambient temperature: 22.5°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	6.563	33.916

Hardware Setup

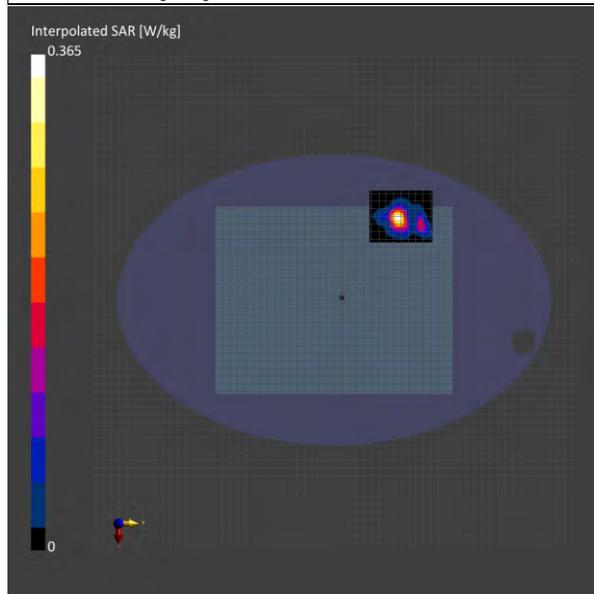
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.291	0.302
psSAR8g [W/kg]	0.109	0.113
psSAR10g [W/kg]	0.095	0.099
psPDab (4.0cm ² , sq) [W/m ²]		2.26
Power Drift [dB]	-0.01	0.02
M2/M1 [%]		56.2
Dist 3dB Peak [mm]		7.7



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ID: 069

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Bottom Surface, U-NII-8, Aux
IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	6.737	33.73

Hardware Setup

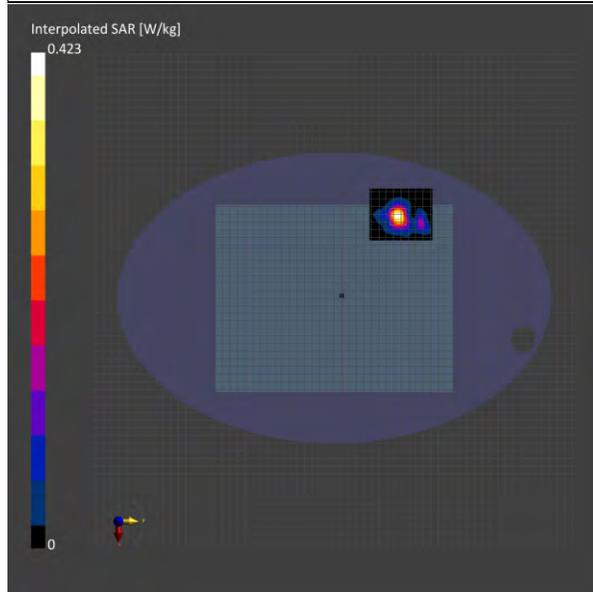
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.345	0.357
psSAR8g [W/kg]	0.129	0.132
psSAR10g [W/kg]	0.113	0.115
psPDab (4.0cm2, sq) [W/m2]		2.64
Power Drift [dB]	-0.16	-0.10
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		7.7



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ID: 070

Report No. :TESA2208000259EN

WLAN 802.11b_Body_Back Surface_CH 1_0mm_Main

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.03

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.7 \text{ S/m}$; $\epsilon_r = 39.396$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2412 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 2.816 V/m; Power Drift = 0.12 dB

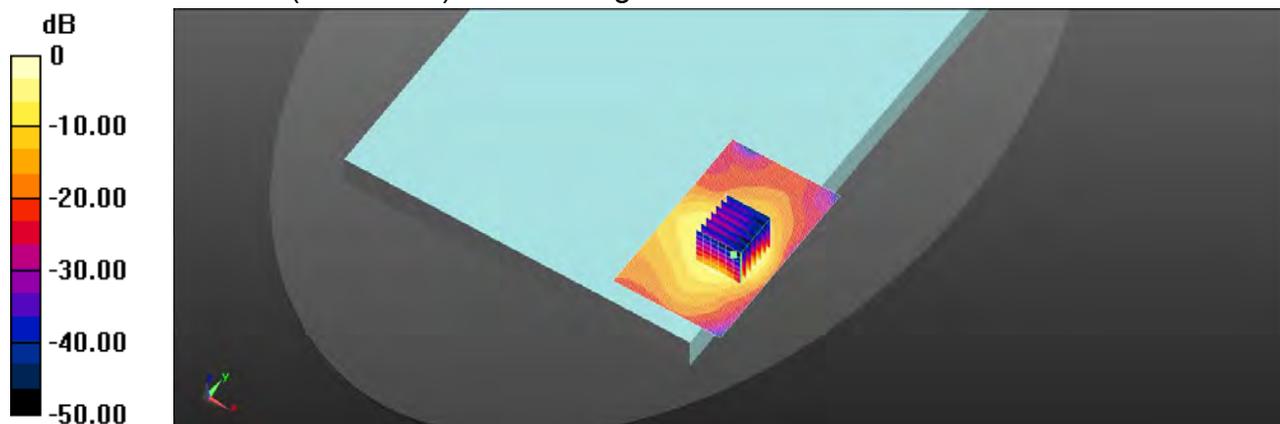
Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.353 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 46.9%

Maximum value of SAR (measured) = 1.14 W/kg



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

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ID: 071

Report No. :TESA2208000259EN

WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_0mm_Main

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.679 \text{ S/m}$; $\epsilon_r = 36.042$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5250 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.78 W/kg

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

Reference Value = 3.782 V/m; Power Drift = 0.07 dB

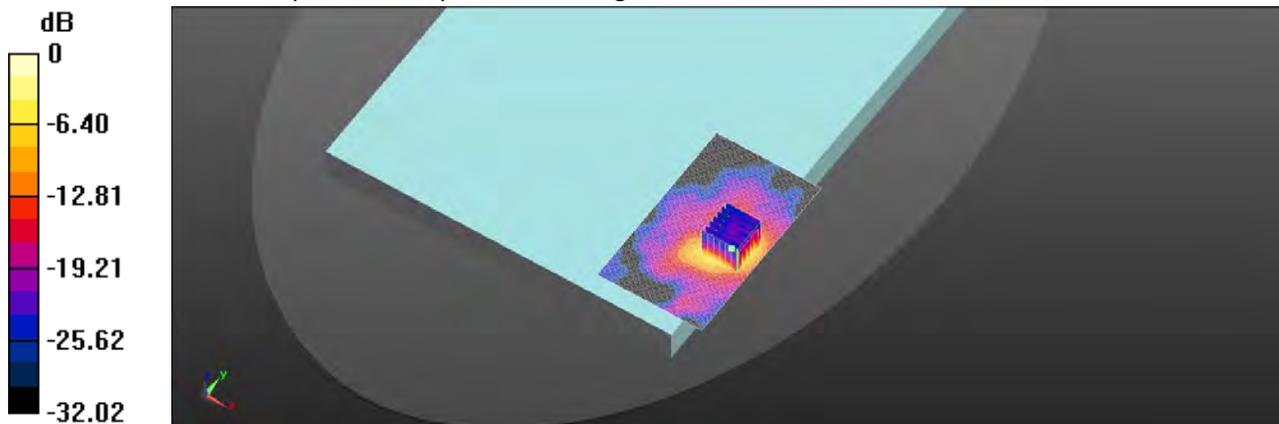
Peak SAR (extrapolated) = 3.97 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.311 W/kg

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

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

Maximum value of SAR (measured) = 2.02 W/kg



0 dB = 2.02 W/kg = 3.05 dBW/kg

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ID: 072

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.6G_Body_Back Surface_CH 106_0mm_Main

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.035 \text{ S/m}$; $\epsilon_r = 35.584$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5530 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.97 W/kg

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

Reference Value = 3.559 V/m; Power Drift = 0.14 dB

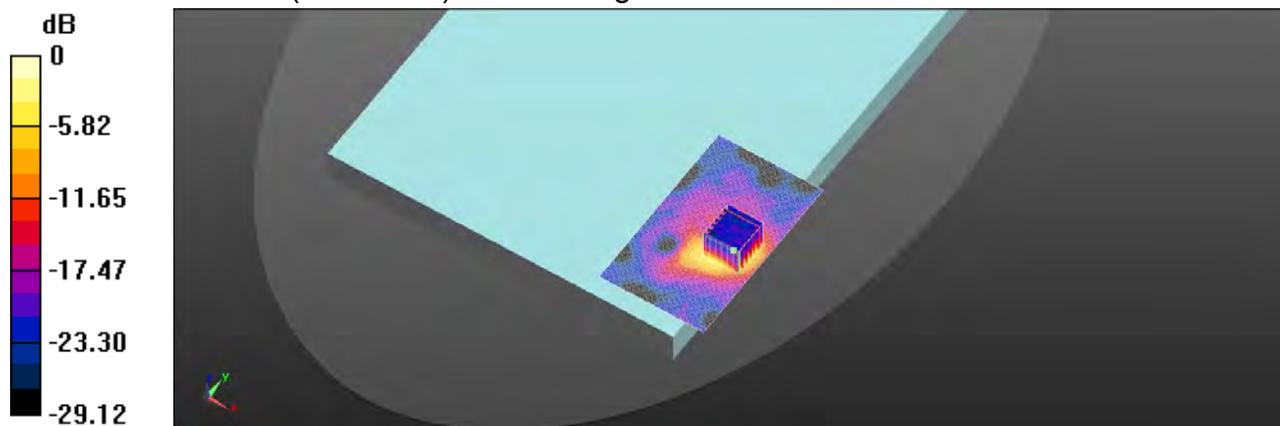
Peak SAR (extrapolated) = 4.46 W/kg

SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.262 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 2.20 W/kg



0 dB = 2.20 W/kg = 3.42 dBW/kg

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ID: 073

Report No. :TESA2208000259EN

WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_0mm_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.081 \text{ S/m}$; $\epsilon_r = 35.483$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 2.02 W/kg

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

Reference Value = 2.884 V/m; Power Drift = 0.11 dB

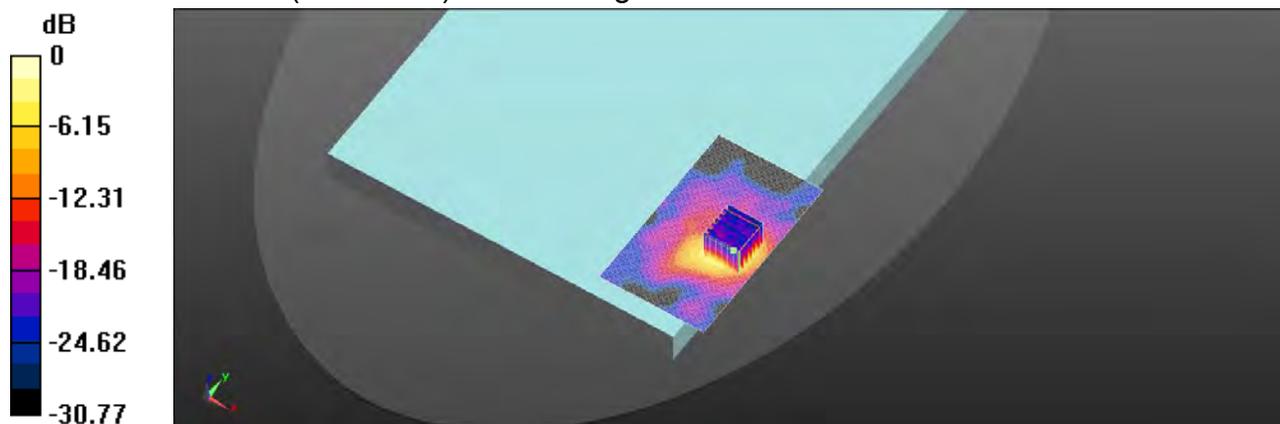
Peak SAR (extrapolated) = 4.67 W/kg

SAR(1 g) = 0.993 W/kg; SAR(10 g) = 0.262 W/kg

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

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

Maximum value of SAR (measured) = 2.22 W/kg



0 dB = 2.22 W/kg = 3.46 dBW/kg

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ID: 074

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Main

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.389 \text{ S/m}$; $\epsilon_r = 34.778$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5775 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 2.18 W/kg

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

Reference Value = 3.625 V/m; Power Drift = 0.08 dB

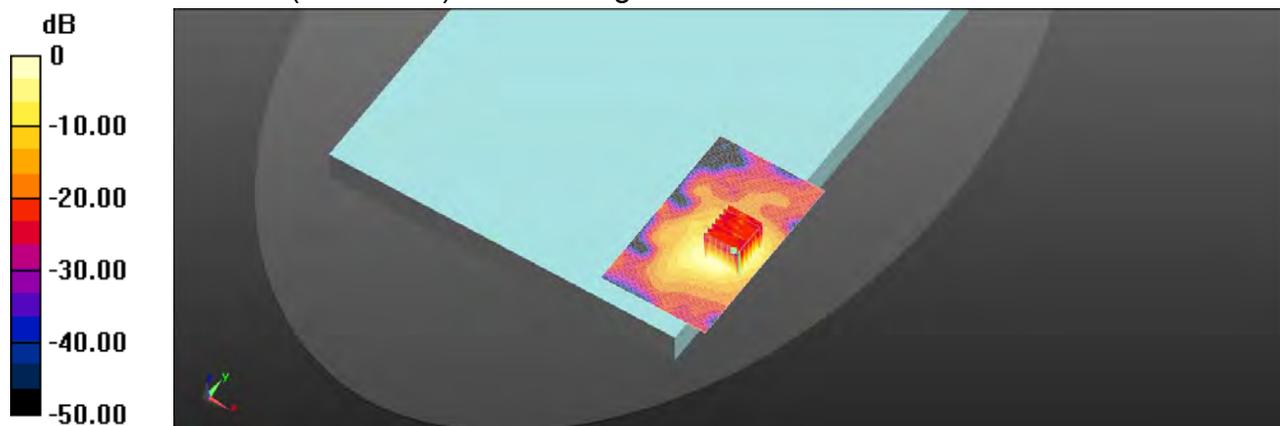
Peak SAR (extrapolated) = 5.02 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.298 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.4%

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



0 dB = 2.19 W/kg = 3.40 dBW/kg

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ID: 075

Report No. :TESA2208000259EN

WLAN 802.11b_Body_Back Surface_CH 11_0mm_Aux

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.03

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.737$ S/m; $\epsilon_r = 39.334$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2462 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.968 W/kg

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

Reference Value = 2.717 V/m; Power Drift = 0.17 dB

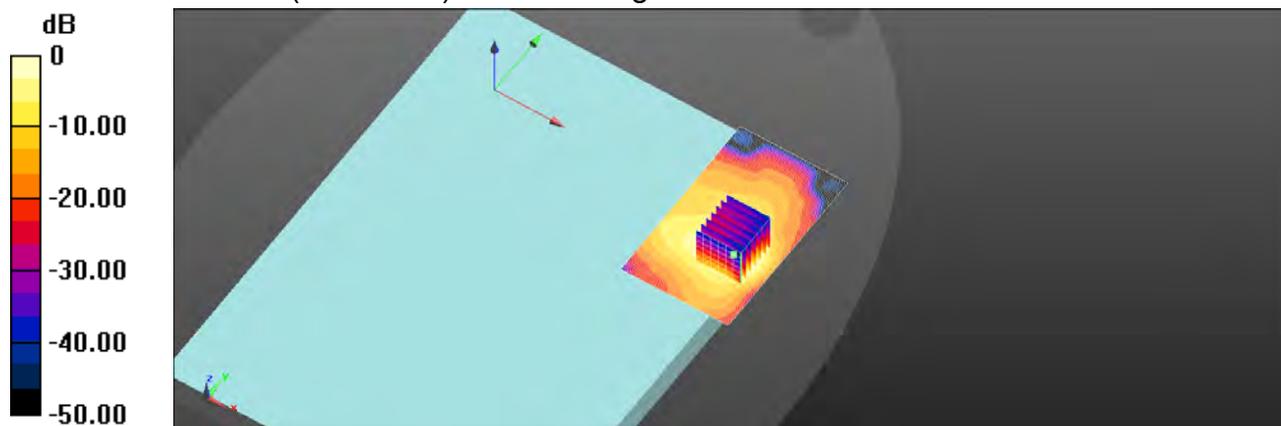
Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.287 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.1%

Maximum value of SAR (measured) = 0.911 W/kg



0 dB = 0.968 W/kg = -0.14 dBW/kg

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ID: 076

Report No. :TESA2208000259EN

Bluetooth(GFSK)_Body_Back Surface_CH 39_0mm_Aux

Communication System: Bluetooth; Frequency: 2441 MHz; Duty cycle= 1:1.318

Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.722 \text{ S/m}$; $\epsilon_r = 39.356$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2441 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.349 W/kg

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

Reference Value = 2.239 V/m; Power Drift = 0.09 dB

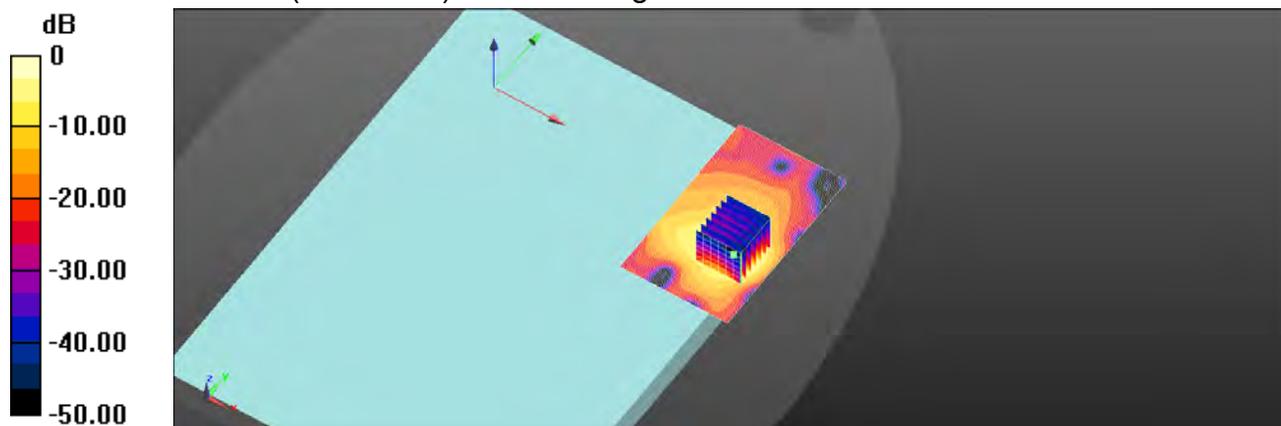
Peak SAR (extrapolated) = 0.443 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.126 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 0.314 W/kg



0 dB = 0.349 W/kg = -4.57 dBW/kg

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ID: 077

Report No. :TESA2208000259EN

WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_0mm_Aux

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.679 \text{ S/m}$; $\epsilon_r = 36.042$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5250 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.56 W/kg

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

Reference Value = 2.974 V/m; Power Drift = 0.07 dB

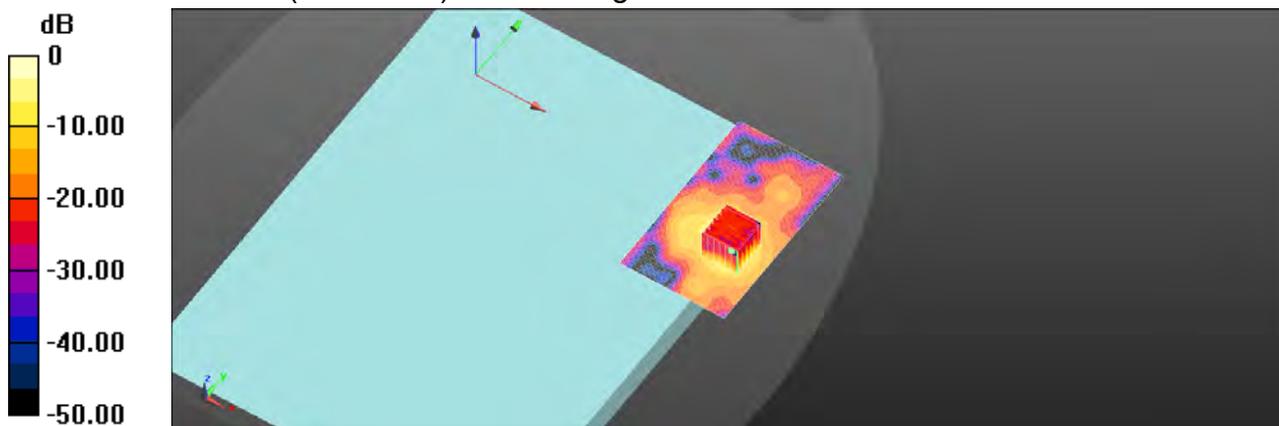
Peak SAR (extrapolated) = 3.97 W/kg

SAR(1 g) = 0.922 W/kg; SAR(10 g) = 0.239 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 2.00 W/kg



0 dB = 2.00 W/kg = 3.01 dBW/kg

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ID: 078

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.6G_Body_Back Surface_CH 138_0mm_Aux

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.272 \text{ S/m}$; $\epsilon_r = 35.193$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5690 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.71 W/kg

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

Reference Value = 3.817 V/m; Power Drift = 0.08 dB

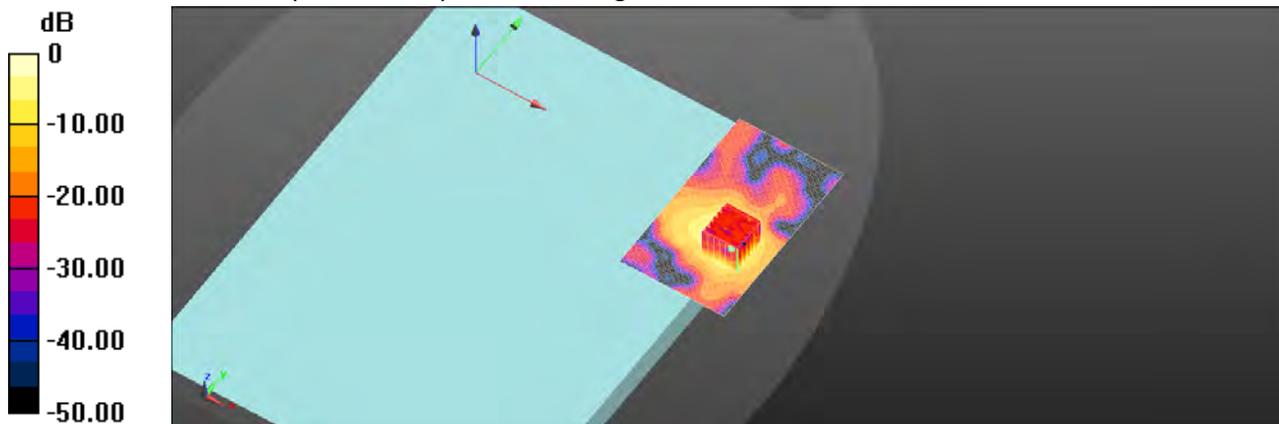
Peak SAR (extrapolated) = 4.46 W/kg

SAR(1 g) = 0.966 W/kg; SAR(10 g) = 0.262 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

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

Maximum value of SAR (measured) = 2.10 W/kg



0 dB = 2.10 W/kg = 3.22 dBW/kg

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ID: 079

Report No. :TESA2208000259EN

WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_0mm_Aux

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.081 \text{ S/m}$; $\epsilon_r = 35.483$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.66 W/kg

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

Reference Value = 3.449 V/m; Power Drift = 0.02 dB

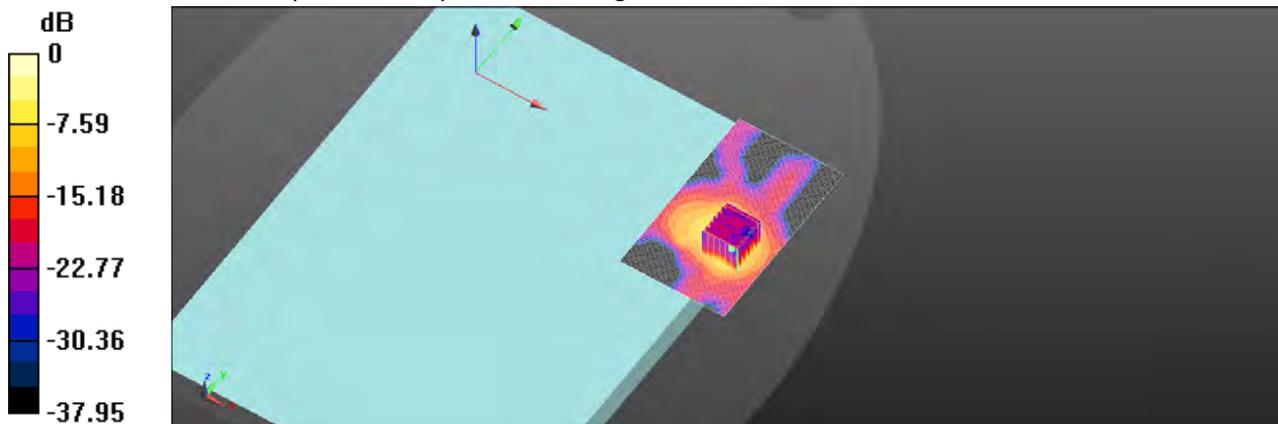
Peak SAR (extrapolated) = 4.23 W/kg

SAR(1 g) = 0.933 W/kg; SAR(10 g) = 0.247 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 2.04 W/kg



0 dB = 2.04 W/kg = 3.10 dBW/kg

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ID: 080

Report No. :TESA2208000259EN

WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Aux

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.028

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.389 \text{ S/m}$; $\epsilon_r = 34.778$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5775 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 1.77 W/kg

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

Reference Value = 2.974 V/m; Power Drift = 0.07 dB

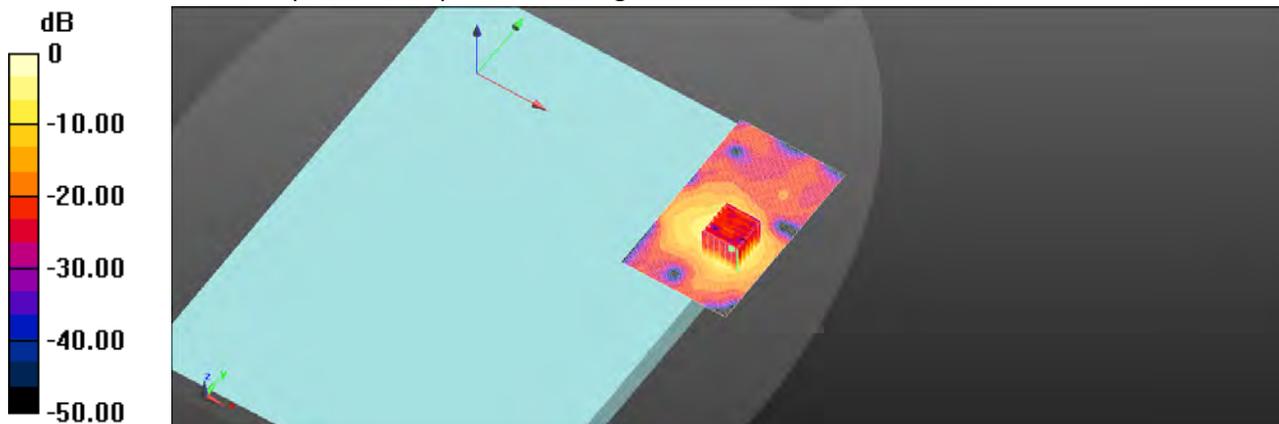
Peak SAR (extrapolated) = 4.58 W/kg

SAR(1 g) = 0.990 W/kg; SAR(10 g) = 0.268 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 2.24 W/kg



0 dB = 2.24 W/kg = 3.50 dBW/kg

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ID: 081

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-5, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Ambient temperature: 22.5°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	Back Surface, 0.00	5.65	5.632	34.723

Hardware Setup

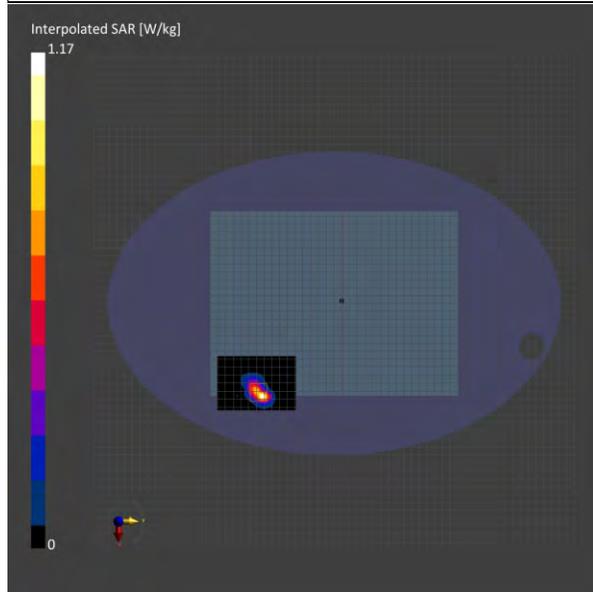
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.709	0.796
psSAR8g [W/kg]	0.256	0.281
psSAR10g [W/kg]	0.226	0.246
psPDab (4.0cm ² , sq) [W/m ²]		5.61
Power Drift [dB]	0.05	-0.03
M2/M1 [%]		56.6
Dist 3dB Peak [mm]		5.2



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ID: 082

Report No. :TESA208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-6, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.5°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	6.198	34.278

Hardware Setup

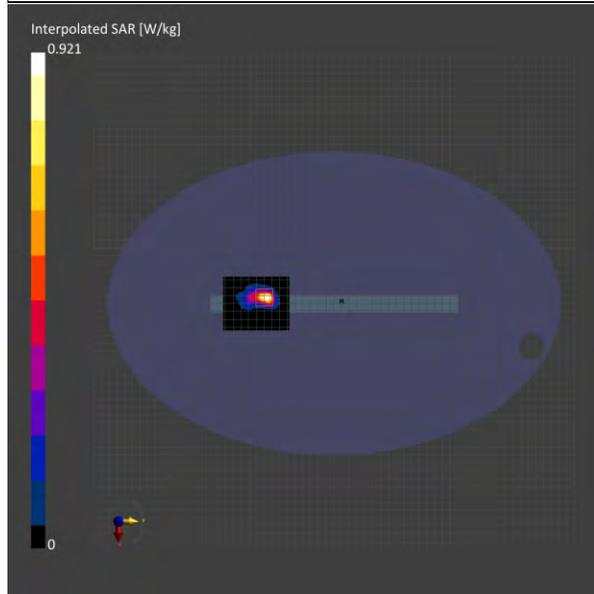
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.670	0.785
psSAR8g [W/kg]	0.227	0.250
psSAR10g [W/kg]	0.197	0.216
psPDab (4.0cm2, sq) [W/m2]		4.99
Power Drift [dB]	-0.07	0.09
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		5.5



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ID: 083

Report No. :TESA208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-7, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 175 (6825.0 MHz)

Ambient temperature: 22.5°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	6.563	33.916

Hardware Setup

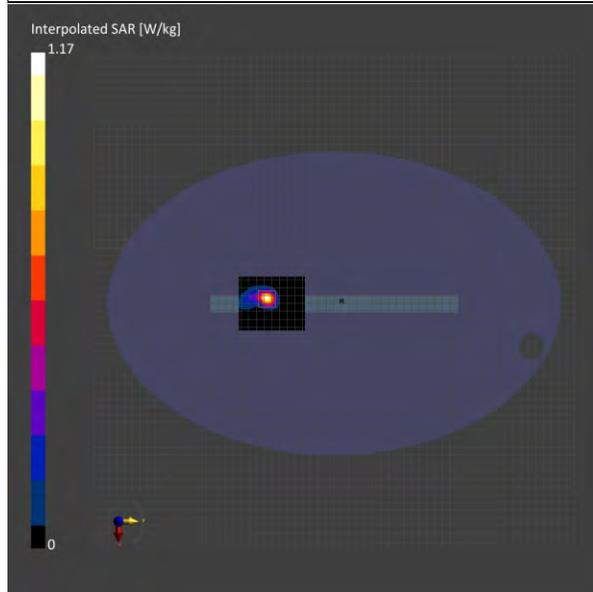
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.830	0.991
psSAR8g [W/kg]	0.268	0.300
psSAR10g [W/kg]	0.230	0.256
psPDab (4.0cm2, sq) [W/m2]		6.01
Power Drift [dB]	0.03	0.03
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		5.8



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ID: 084

Report No. :TESA208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-8, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.85	6.737	33.73

Hardware Setup

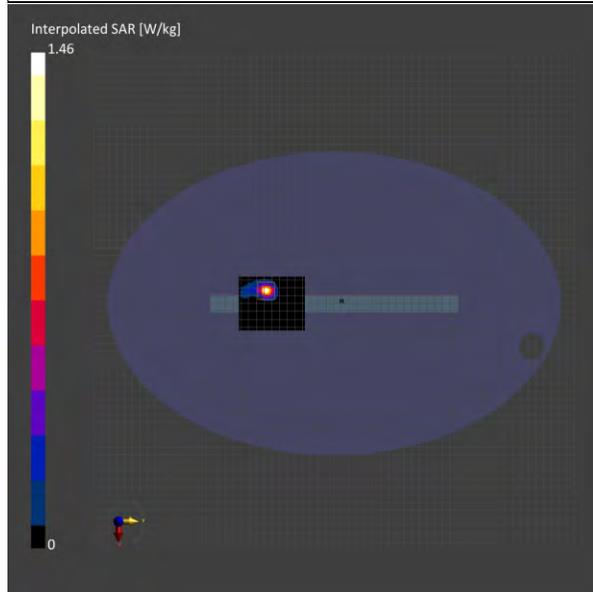
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.968	0.992
psSAR8g [W/kg]	0.287	0.294
psSAR10g [W/kg]	0.245	0.250
psPDab (4.0cm2, sq) [W/m2]		5.88
Power Drift [dB]	0.05	-0.04
M2/M1 [%]		51.7
Dist 3dB Peak [mm]		5.5



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ID: 085

Report No. :TESA208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-5, Aux
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

Ambient temperature: 22.5°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	Back Surface, 0.00	5.65	5.821	34.54

Hardware Setup

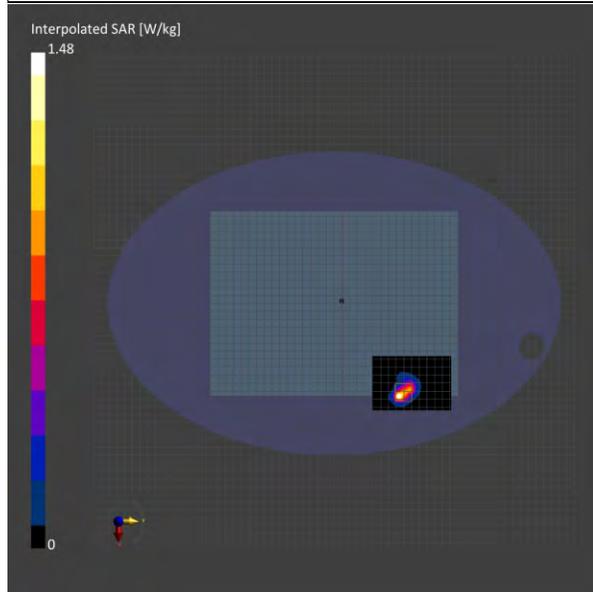
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.888	1.03
psSAR8g [W/kg]	0.319	0.354
psSAR10g [W/kg]	0.281	0.311
psPDab (4.0cm2, sq) [W/m2]		7.08
Power Drift [dB]	0.02	1.50
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		5.5



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ID: 086

Report No. :TESA208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-6, Aux
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.5°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	Back Surface, 0.00	5.65	6.198	34.278

Hardware Setup

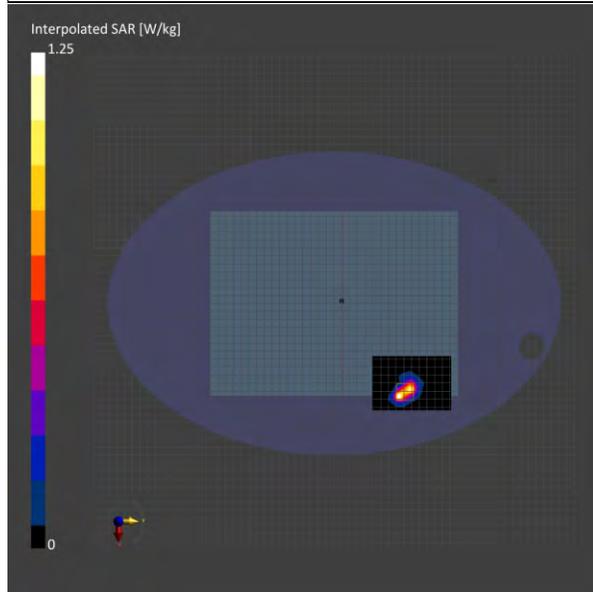
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.778	0.893
psSAR8g [W/kg]	0.300	0.327
psSAR10g [W/kg]	0.267	0.290
psPDab (4.0cm2, sq) [W/m2]		6.55
Power Drift [dB]	0.02	-0.01
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		5.5



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ID: 087

Report No. :TESA208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-7, Aux
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Ambient temperature: 22.5°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	Back Surface, 0.00	5.65	6.38	34.1

Hardware Setup

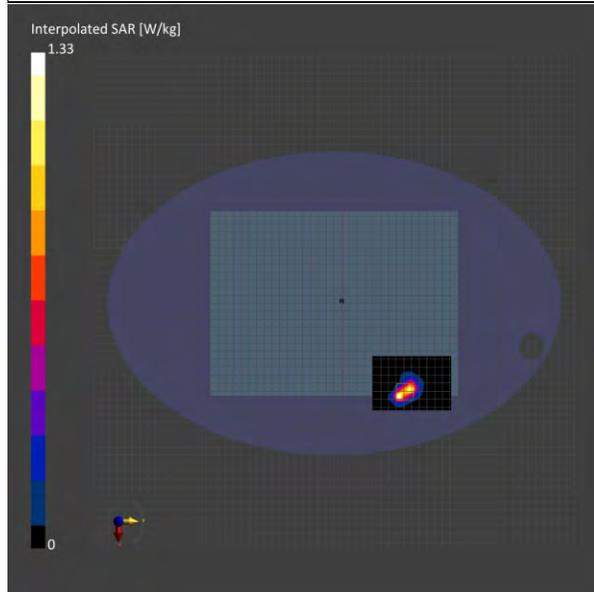
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.839	0.971
psSAR8g [W/kg]	0.325	0.355
psSAR10g [W/kg]	0.290	0.314
psPDab (4.0cm2, sq) [W/m2]		7.11
Power Drift [dB]	0.01	-0.02
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		5.5



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ID: 088

Report No. :TESA208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-8, Aux
IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 183 (6865.0 MHz)

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	6.608	33.865

Hardware Setup

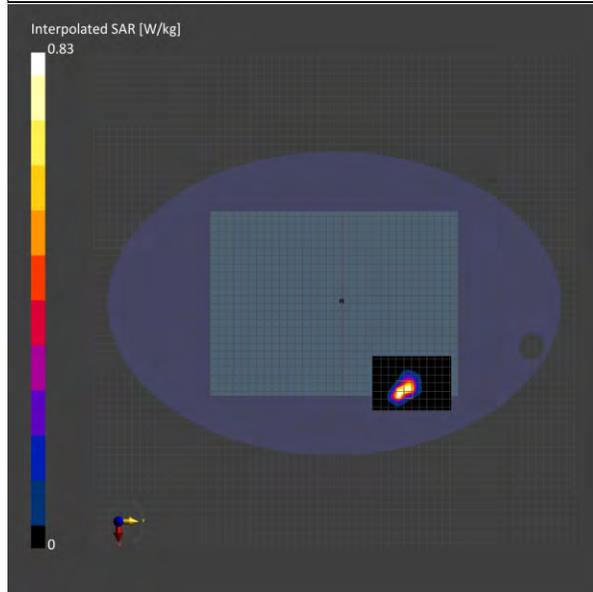
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	0.618	0.704
psSAR8g [W/kg]	0.241	0.257
psSAR10g [W/kg]	0.213	0.227
psPDab (4.0cm2, sq) [W/m2]		5.14
Power Drift [dB]	0.08	0.11
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		5.6



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12 PD MEASUREMENT RESULT

ID: 040

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-5, Main

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

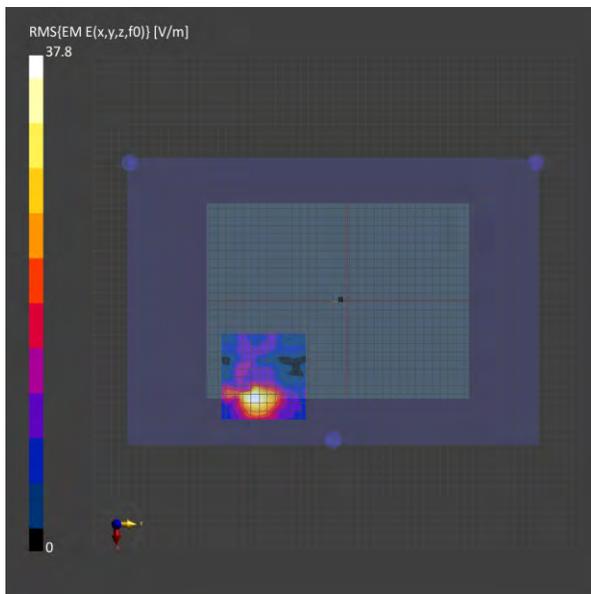
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.75
psPDtot+ [W/m ²]	1.97
psPDmod+ [W/m ²]	2.16
E _{max} [V/m]	37.8
Power Drift [dB]	-0.04



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ID: 041

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-5, Main

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

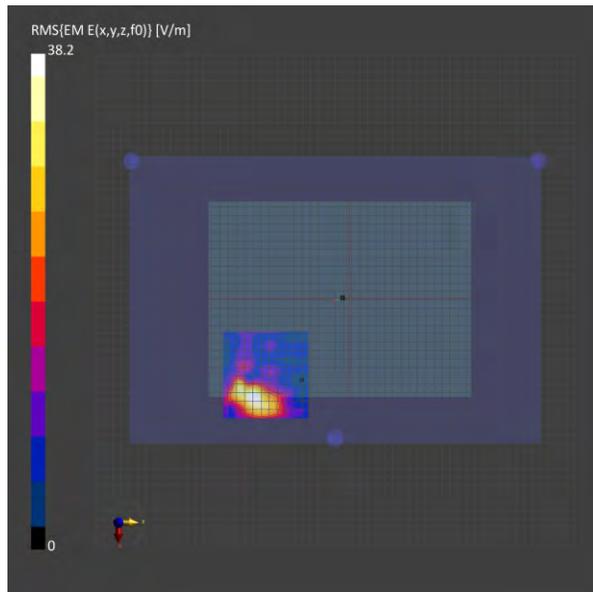
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.10
psPDtot+ [W/m ²]	2.42
psPDmod+ [W/m ²]	2.60
E _{max} [V/m]	38.2
Power Drift [dB]	0.12



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ID: 042

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-6, Main

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

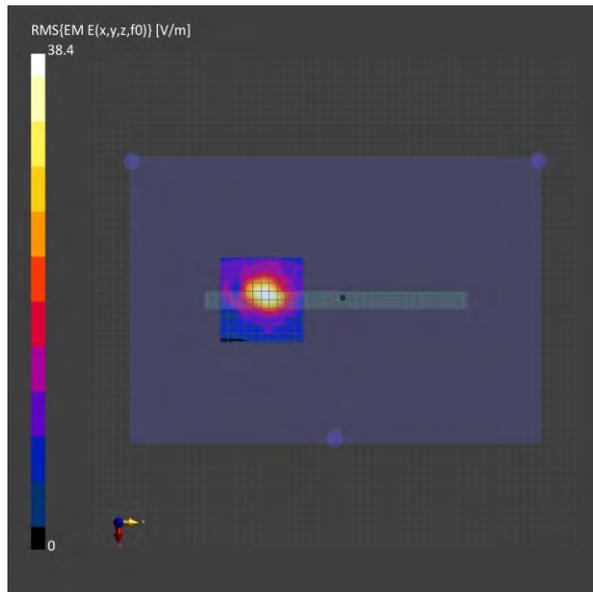
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.99
psPDtot+ [W/m ²]	2.20
psPDmod+ [W/m ²]	2.29
E _{max} [V/m]	38.4
Power Drift [dB]	0.11



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ID: 043

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-7, Main

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

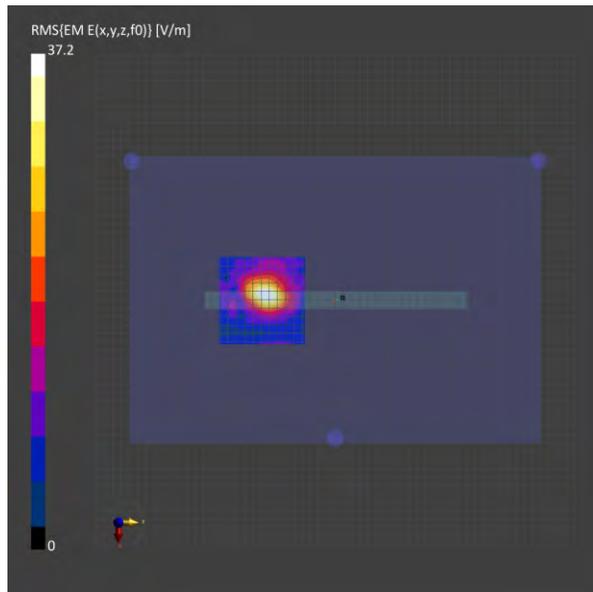
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.27
psPDtot+ [W/m ²]	2.51
psPDmod+ [W/m ²]	2.60
E _{max} [V/m]	37.2
Power Drift [dB]	0.17



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ID: 044

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-8, Main

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

Hardware Setup

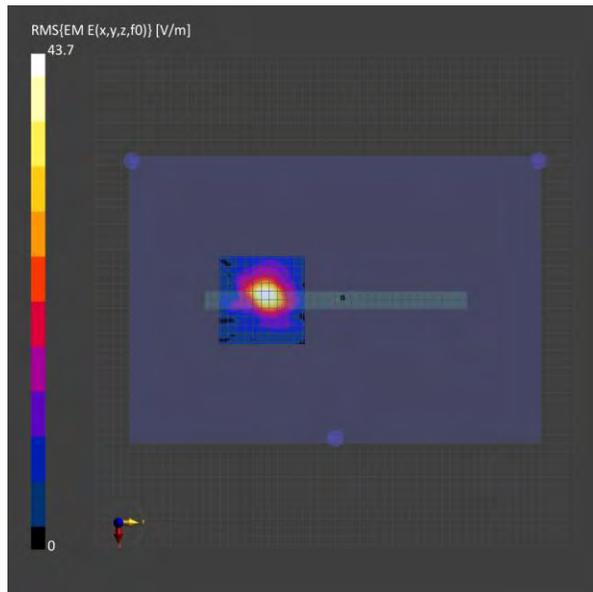
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.82
psPDtot+ [W/m ²]	3.19
psPDmod+ [W/m ²]	3.33
E _{max} [V/m]	43.7
Power Drift [dB]	0.16



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ID: 045

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-5, Aux

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

Hardware Setup

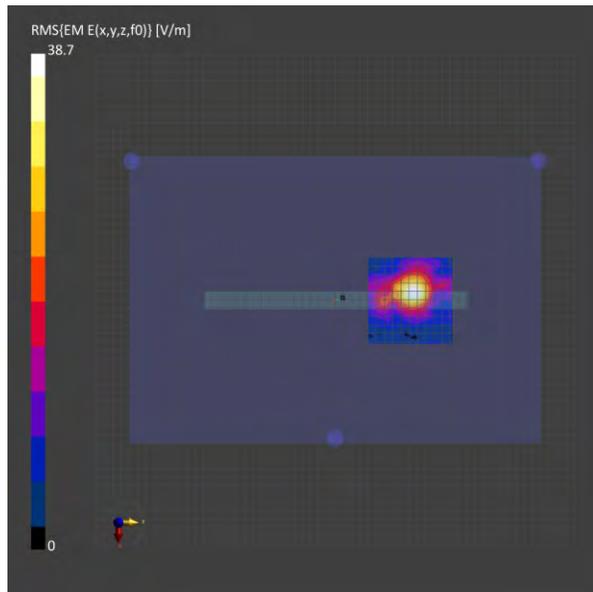
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.17
psPDtot+ [W/m ²]	2.25
psPDmod+ [W/m ²]	2.33
E _{max} [V/m]	38.7
Power Drift [dB]	-0.15



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ID: 046

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-5, Aux

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

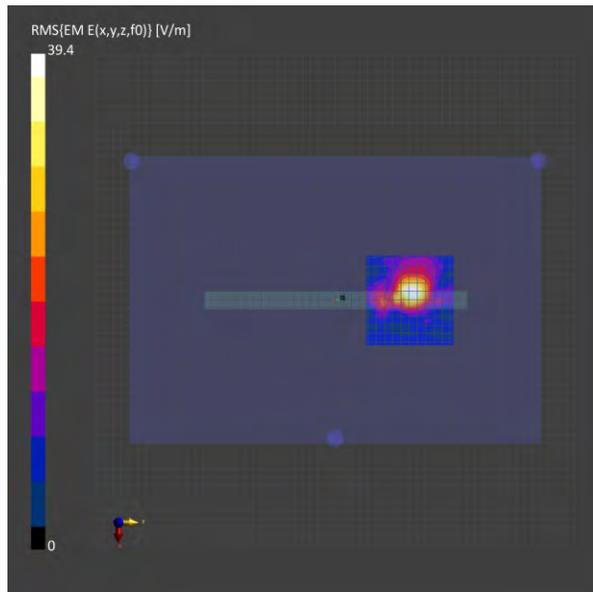
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.89
psPDtot+ [W/m ²]	1.95
psPDmod+ [W/m ²]	2.08
E _{max} [V/m]	39.4
Power Drift [dB]	-0.03



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ID: 047

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-6, Aux

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

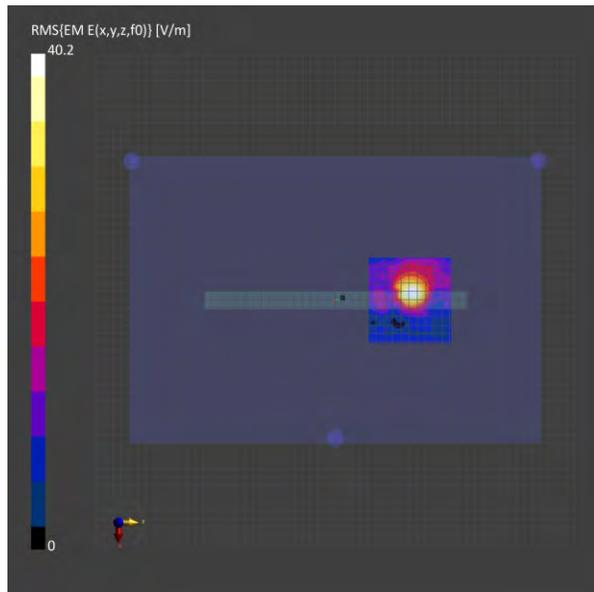
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.15
psPDtot+ [W/m ²]	2.20
psPDmod+ [W/m ²]	2.27
E _{max} [V/m]	40.2
Power Drift [dB]	0.08



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ID: 048

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-7, Aux

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 175 (6825.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

Hardware Setup

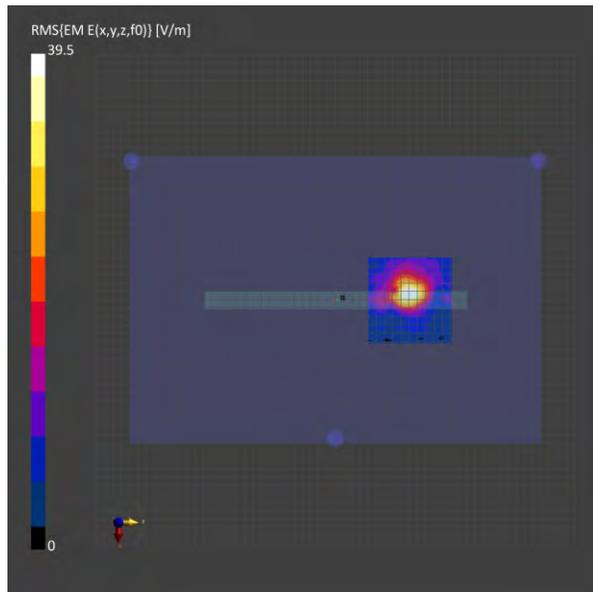
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.92
psPDtot+ [W/m ²]	1.96
psPDmod+ [W/m ²]	2.03
E _{max} [V/m]	39.4
Power Drift [dB]	-0.02



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ID: 049

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-8, Aux

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

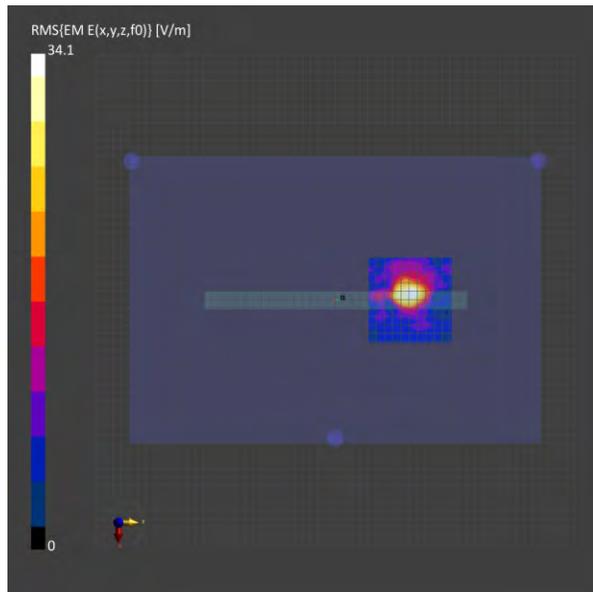
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.65
psPDtot+ [W/m ²]	1.85
psPDmod+ [W/m ²]	1.94
E _{max} [V/m]	34.1
Power Drift [dB]	-0.04



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ID: 089

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-5, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

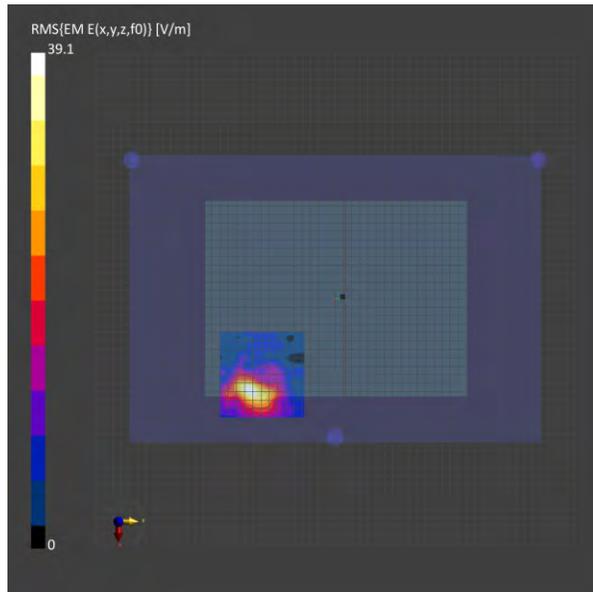
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.48
psPDtot+ [W/m ²]	2.71
psPDmod+ [W/m ²]	2.85
E _{max} [V/m]	39.1
Power Drift [dB]	0.04



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ID: 090

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-5, Main
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

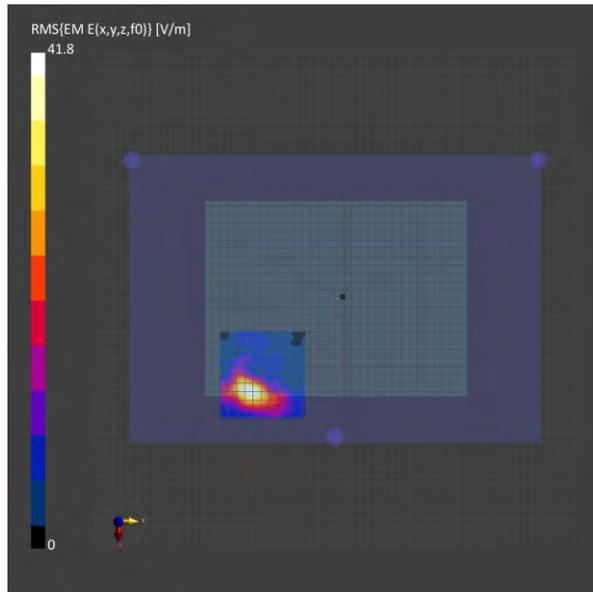
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.28
psPDtot+ [W/m ²]	2.48
psPDmod+ [W/m ²]	2.60
E _{max} [V/m]	41.8
Power Drift [dB]	-0.03



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ID: 091

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-6, Main
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

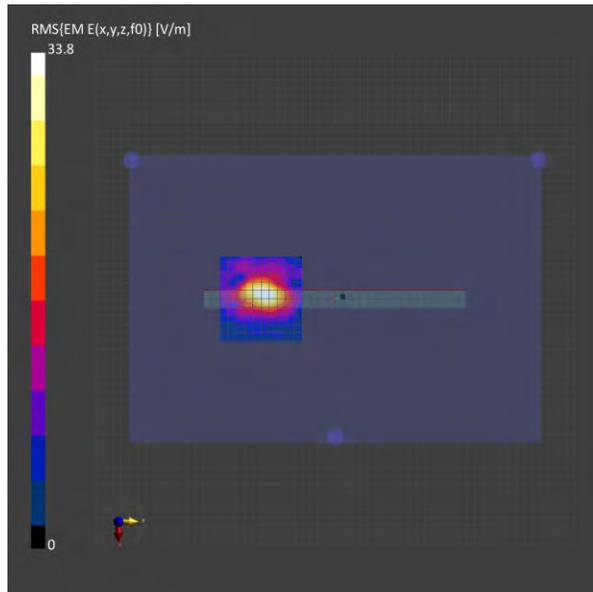
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.61
psPDtot+ [W/m ²]	1.76
psPDmod+ [W/m ²]	1.82
E _{max} [V/m]	33.8
Power Drift [dB]	0.15



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ID: 092

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-7, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 175 (6825.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

Hardware Setup

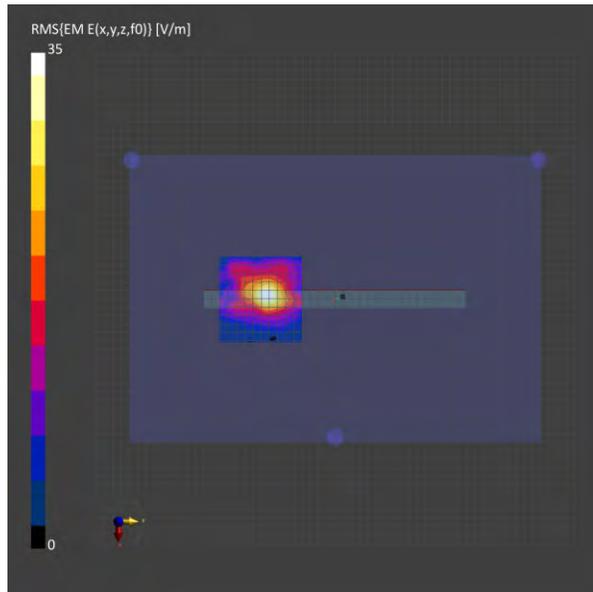
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.82
psPDtot+ [W/m ²]	2.12
psPDmod+ [W/m ²]	2.15
E _{max} [V/m]	35.0
Power Drift [dB]	-0.14



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ID: 093

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Top Edge, U-NII-8, Main
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Top Edge, 2.00	1.0

Hardware Setup

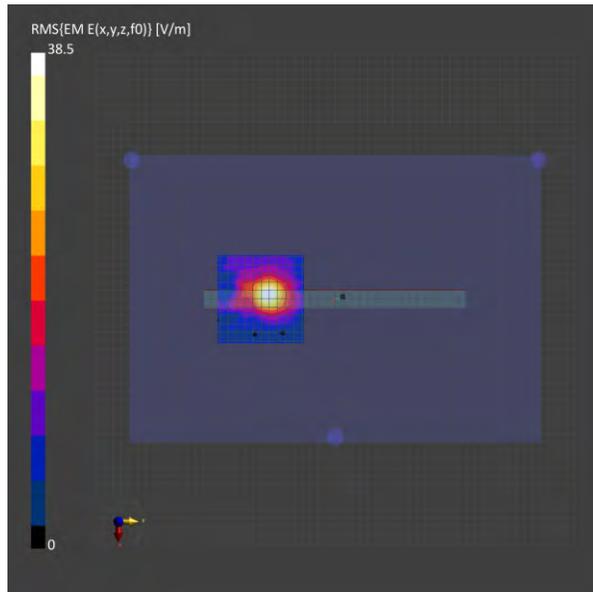
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.26
psPDtot+ [W/m ²]	2.63
psPDmod+ [W/m ²]	2.69
E _{max} [V/m]	38.4
Power Drift [dB]	0.12



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ID: 094

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-5, Aux
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

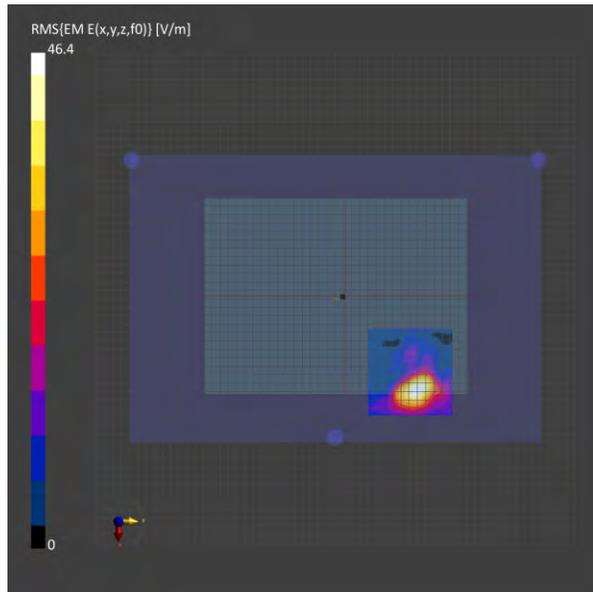
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.98
psPDtot+ [W/m ²]	3.19
psPDmod+ [W/m ²]	3.43
E _{max} [V/m]	46.3
Power Drift [dB]	-0.17



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ID: 095

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-5, Aux
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

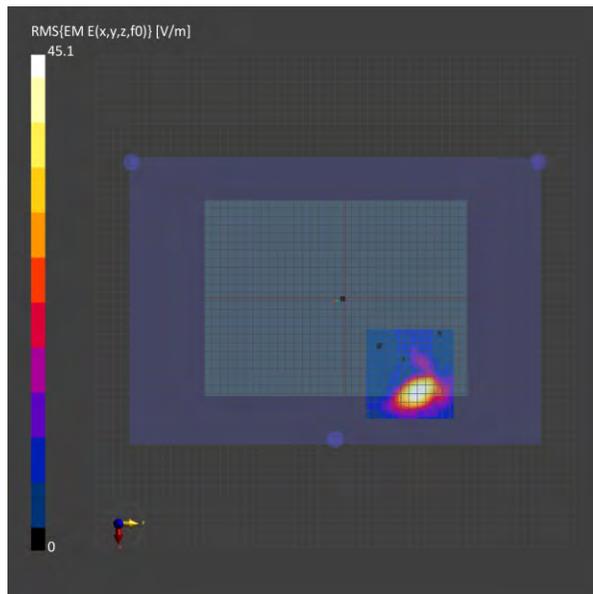
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.74
psPDtot+ [W/m ²]	3.00
psPDmod+ [W/m ²]	3.41
E _{max} [V/m]	45.1
Power Drift [dB]	-0.10



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ID: 096

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-6, Aux
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

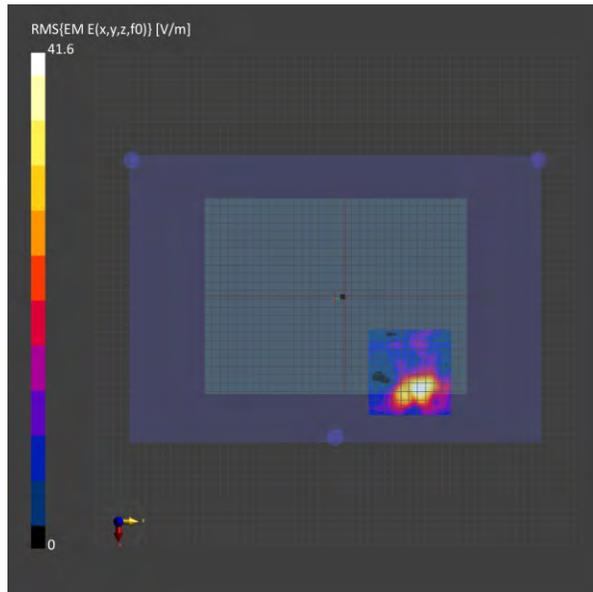
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.20
psPDtot+ [W/m ²]	2.48
psPDmod+ [W/m ²]	2.65
E _{max} [V/m]	41.6
Power Drift [dB]	-0.12



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ID: 097

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-7, Aux
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

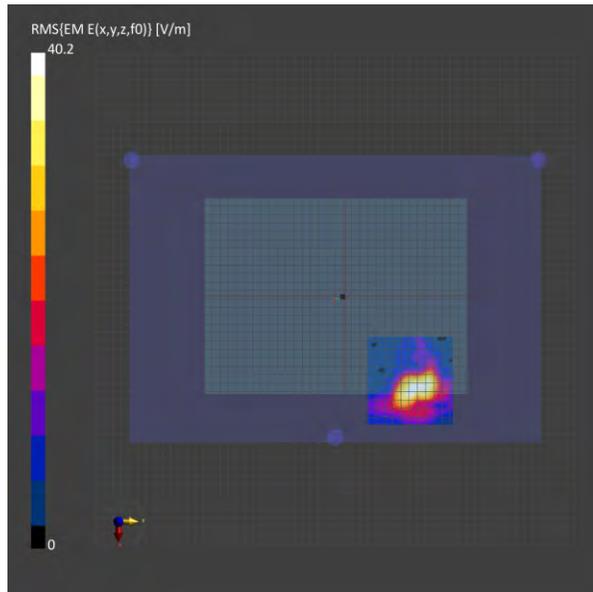
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.05
psPDtot+ [W/m ²]	2.40
psPDmod+ [W/m ²]	2.55
E _{max} [V/m]	40.2
Power Drift [dB]	0.17



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ID: 098

Report No. :TESA2208000259EN

Measurement Report for CX3401, Body, Back Surface, U-NII-8, Aux
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

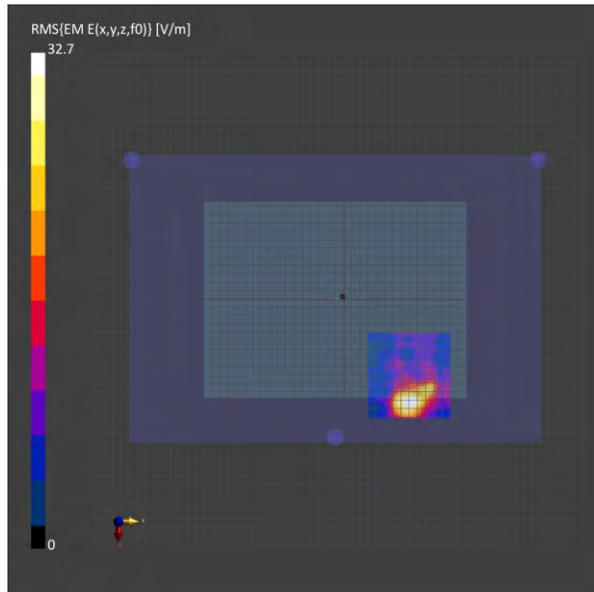
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.43
psPDtot+ [W/m ²]	1.52
psPDmod+ [W/m ²]	1.67
E _{max} [V/m]	32.7
Power Drift [dB]	-0.07



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13 SAR SYSTEM CHECK RESULTS

Date: 2022/8/13

Report No. :TESA2208000259EN

Dipole 2450 MHz_SN:727

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.729$ S/m; $\epsilon_r = 39.344$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.1, 8.1, 8.1) @ 2450 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- 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) = 22.0 W/kg

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

Reference Value = 127.4 V/m; Power Drift = 0.05 dB

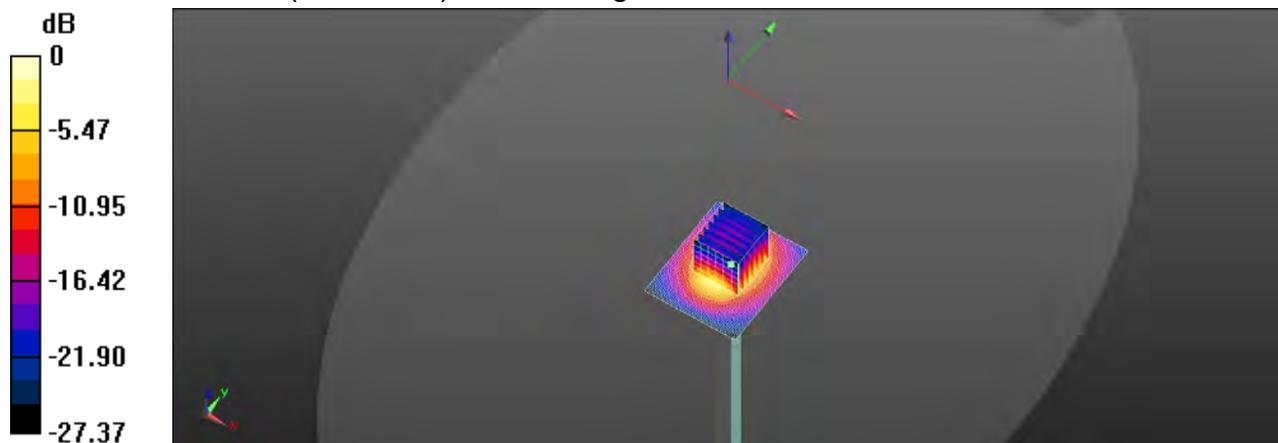
Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 13 W/kg; SAR(10 g) = 6 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 44.3%

Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 22.0 W/kg = 13.43 dBW/kg

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Report No. :TESA2208000259EN

Dipole 5250 MHz_SN:1023

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

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.699 \text{ S/m}$; $\epsilon_r = 35.795$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5250 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 58.54 V/m; Power Drift = -0.15 dB

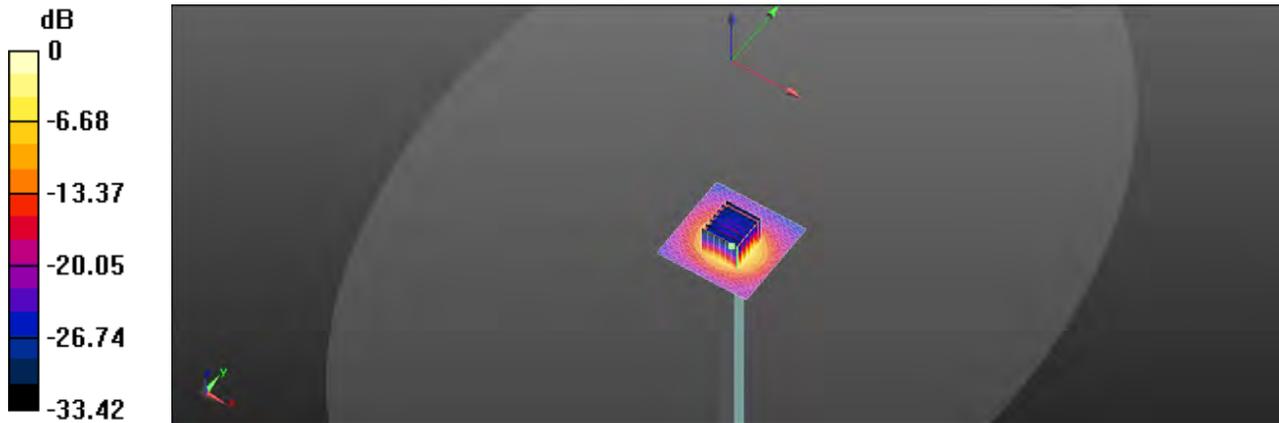
Peak SAR (extrapolated) = 31.4 W/kg

SAR(1 g) = 8.1 W/kg; SAR(10 g) = 2.34 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56%

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



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

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Report No. :TESA2208000259EN

Dipole 5250 MHz_SN:1023

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

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.679 \text{ S/m}$; $\epsilon_r = 36.042$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.44, 5.44, 5.44) @ 5250 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 58.67 V/m; Power Drift = -0.19 dB

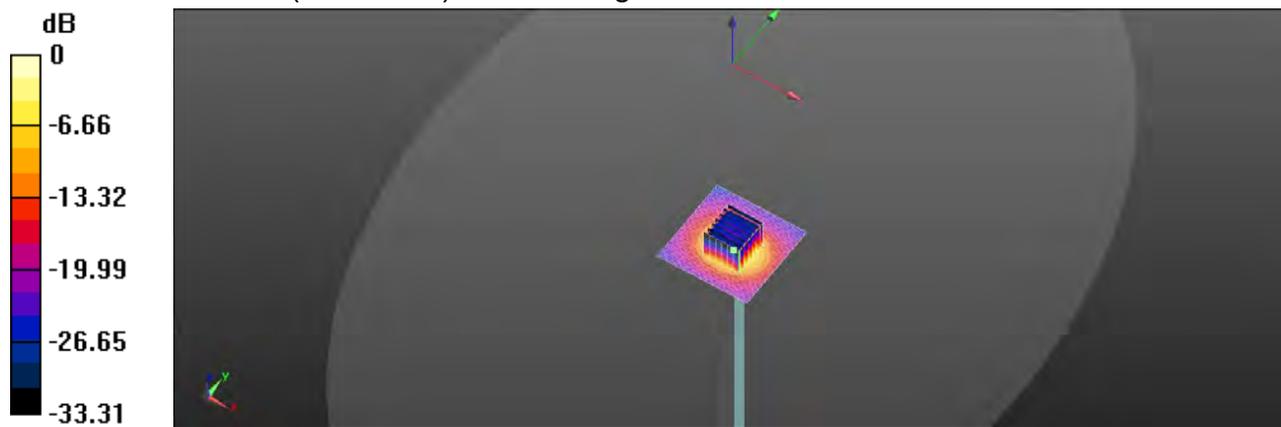
Peak SAR (extrapolated) = 31.7 W/kg

SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.32 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.6%

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



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

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Report No. :TESA2208000259EN

Dipole 5600 MHz_SN:1023

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

Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.137 \text{ S/m}$; $\epsilon_r = 35.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5600 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 57.04 V/m; Power Drift = -0.14 dB

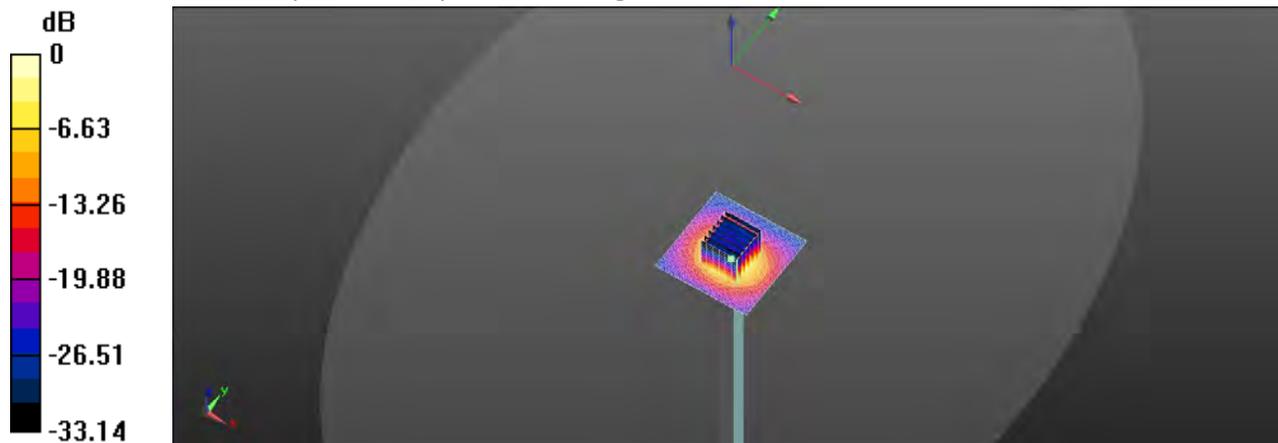
Peak SAR (extrapolated) = 31.5 W/kg

SAR(1 g) = 8.04 W/kg; SAR(10 g) = 2.37 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.6%

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



0 dB = 16.4 W/kg = 12.15 dBW/kg

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Report No. :TESA2208000259EN

Dipole 5600 MHz_SN:1023

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

Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.116 \text{ S/m}$; $\epsilon_r = 35.389$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.05, 5.05, 5.05) @ 5600 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 56.97 V/m; Power Drift = -0.12 dB

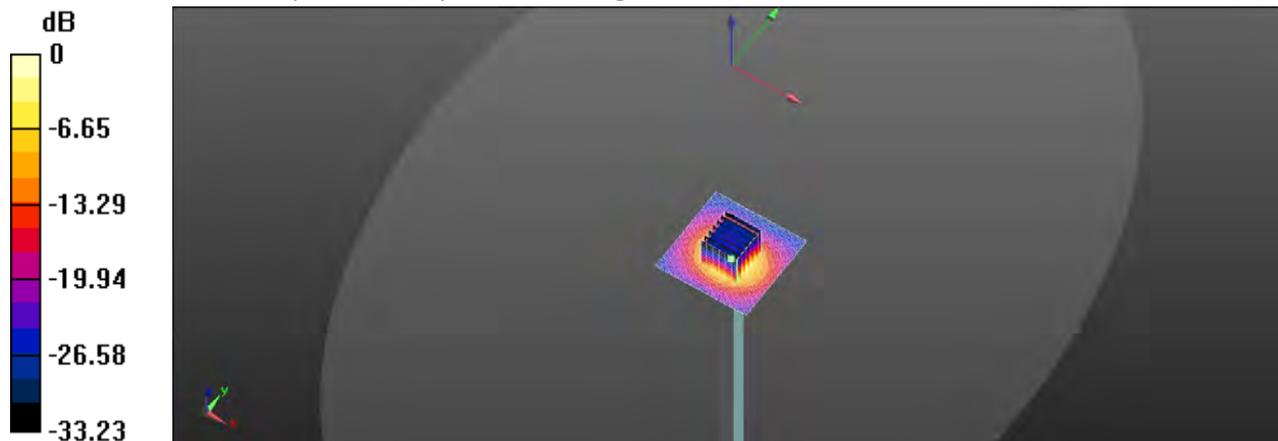
Peak SAR (extrapolated) = 32.2 W/kg

SAR(1 g) = 8.11 W/kg; SAR(10 g) = 2.38 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.3%

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



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

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Date: 2022/8/18

Report No. :TESA2208000259EN

Dipole 5750 MHz_SN:1023

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

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.355 \text{ S/m}$; $\epsilon_r = 34.801$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98) @ 5750 MHz; Calibrated: 2022/1/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2021/11/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 58.02 V/m; Power Drift = -0.14 dB

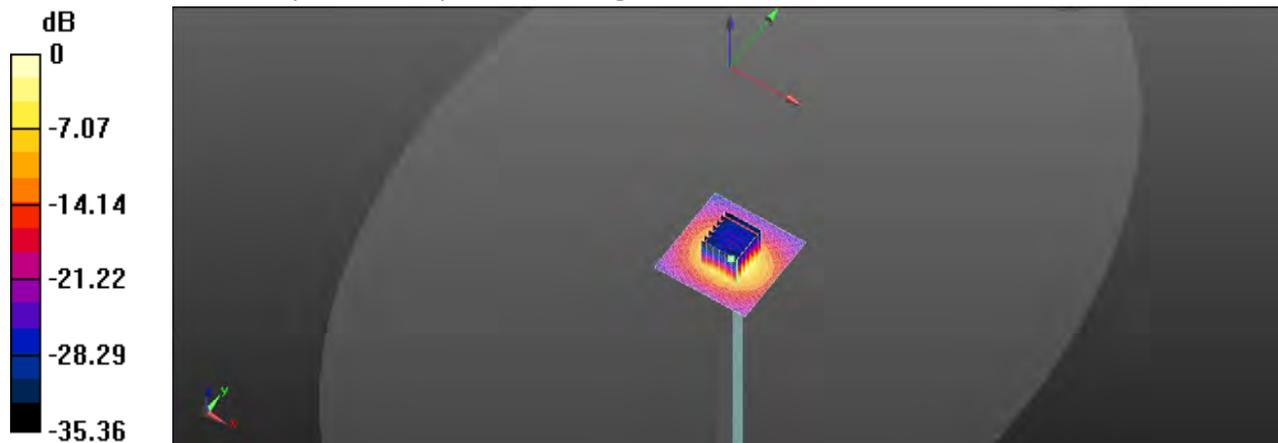
Peak SAR (extrapolated) = 33.0 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.28 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.7%

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



0 dB = 15.8 W/kg = 11.99 dBW/kg

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Report No. :TESA2208000259EN

Measurement Report for Device, FRONT, Validation band, CW, Channel 6500 (6500.0 MHz), SN:1006

Ambient temperature: 22.5°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	5.65	6.193	34.286

Hardware Setup

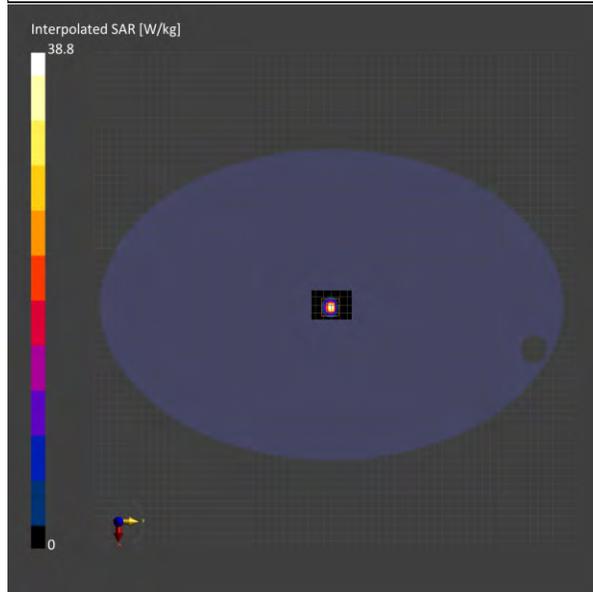
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	23.7	28.0
psSAR8g [W/kg]	5.84	6.45
psSAR10g [W/kg]	4.84	5.30
psPDab (4.0cm2, sq) [W/m2]		129
Power Drift [dB]	0.02	0.05
M2/M1 [%]		49.7
Dist 3dB Peak [mm]		4.8



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Report No. :TESA2208000259EN

Measurement Report for Device, FRONT, Validation band, CW, Channel 7000 (7000.0 MHz), SN:1007

Ambient temperature: 22.3°C; Liquid temperature: 22.0°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	6.751	33.718

Hardware Setup

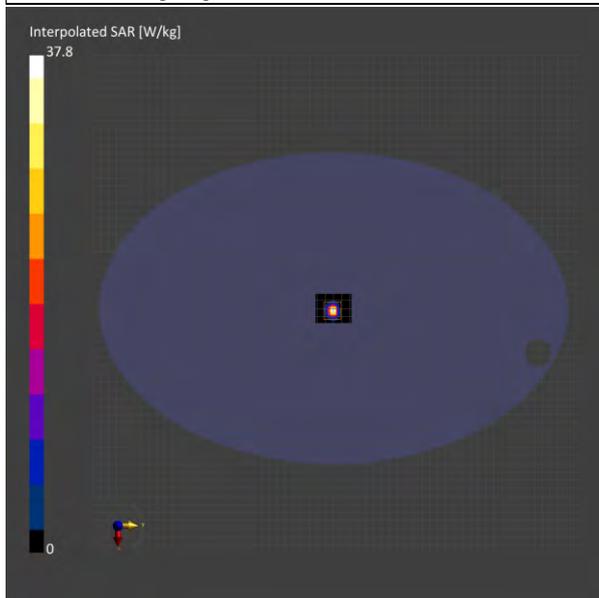
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2022-01-26	DAE4 Sn558, 2021-11-23

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	2022-08-19	2022-08-19
psSAR1g [W/kg]	23.7	26.4
psSAR8g [W/kg]	5.71	5.91
psSAR10g [W/kg]	4.73	4.86
psPDab (4.0cm2, sq) [W/m2]		118
Power Drift [dB]	0.04	0.05
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		4.7



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14 PD SYSTEM CHECK RESULT

Report No. :TESA2208000259EN

Measurement Report for 5G Verification Source 10GHz, FRONT, Validation band,
CW, Channel 10000 (10000.0 MHz), SN:1021

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	FRONT, 10.00	1.0

Hardware Setup

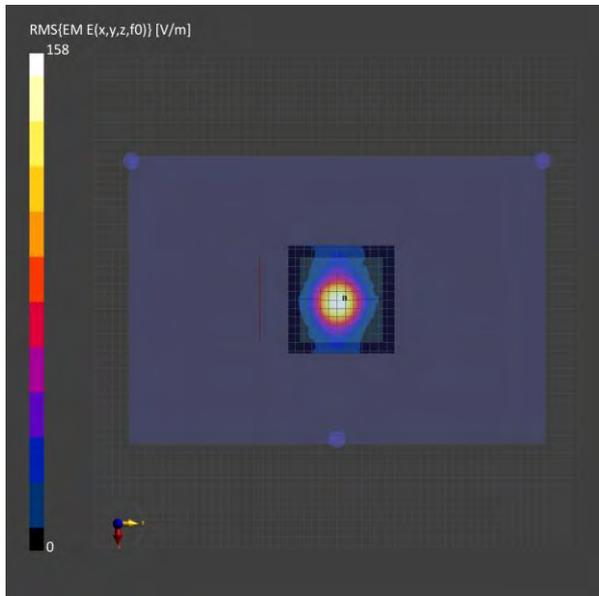
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn558, 2021-11-23

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	2022-08-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	51.4
psPDtot+ [W/m ²]	51.6
psPDmod+ [W/m ²]	51.7
E _{max} [V/m]	157
Power Drift [dB]	0.03



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Refer to separated files for the following appendixes.

- 15.1 SAR_Appendix A Photographs**
- 15.2 SAR_Appendix B DAE & Probe Cal. Certificate**
- 15.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate**

- End of report -

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