

RF Exposure report



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

EUT Description	Wireless module installed in Notebook Computer
Brand Name	<i>acer</i>
Model No.	MT7922A12L
Host Model Number:	N26Q4
Applicant	Acer Incorporated 8F, 88, Sec. 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	HLZMT7922A12L
Date of EUT Receipt	Nov. 03, 2025
Date of Test(s)	Nov. 16, 2025 ~ Nov. 23, 2025
Date of Issue	Dec. 15, 2025

Approved By /

John Teh

John Yeh

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2511000839E5	00	Initial creation of document	Dec. 15, 2025	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

KDB 447498D01v06

KDB 865664D01v01r04

KDB 865664D02v01r02

KDB 616217D04v01r02

KDB 248227D01v02r02

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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1.2 Description of EUT

EUT Description	Wireless module installed in Notebook Computer	
Brand Name		
Model No.	MT7922A12L	
Host Model Number:	N26Q4	
Duty Cycle	WLAN 802.11	Please refer to section 3
	Bluetooth	Please refer to section 3
Supported radios (TX Frequency Range, MHz)	802.11 b/g/n/ac/ax	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5250.0 MHz) 5.3GHz (5250.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 5.9GHz (5850.0 – 5895.0 MHz)
	802.11a/ax	6.2GHz (5925.0 – 6425.0 MHz) 6.5GHz (6425.0 – 6525.0 MHz) 6.7GHz (6525.0 – 6875.0 MHz) 7.0GHz (6875.0 – 7125.0 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

1.3 Maximum value

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g (W/kg)	Highest APD (W/m ²)	Highest PD (W/m ²)
Bluetooth(GFSK)	0.06	N/A	N/A
2.4G WLAN	1.20	N/A	N/A
5G WLAN	1.20	N/A	N/A
6G WLAN	0.52	4.06	9.91

1.4 Antenna Information

Vendor	Wistron Neweb Corporation									
Antenna	Ant Main									
Part Number	81EACE15.G24(DQ6E15G2401)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	2.62	2.17	2.37	1.69	2.67	2.67	2.31	2.27	1.62	2.38
Antenna	Ant Aux									
Part Number	81EACE15.G24(DQ6E15G2401)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	1.81	2.40	1.95	2.02	1.87	1.87	2.93	0.75	2.59	2.48

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	Test Engineer	Project Manager	FCC Designation number/ Registration Number	IC CAB identifier/ Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, NeiHu District, Taipei City, 11493, Taiwan	SAR 2	-	-	TW0029/ 150169	TW3702/ 23862
		SAR 6	-	-		
		SAR 8	-	-		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	Jay Lin	Tom Chiang	TW0028/ 200037	TW3702/ 4620E
		SAR 4	-	-		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	-	-	TW0027/ 891563	TW3702/ 4620A
		SAR 7	-	-		

Note: Test site name is remarked on a bolded mark as an indication where measurements occurred in specific test site and address.

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Block Diagram (DASY8)

Phantom

TSL

SAR Probe

DAE

EOC

Robot

D = Spacing

DUT

ANT

MAIA

BSS

DASY Computer

Measurement server

Robot Server

- 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 and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)		
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450/5250/5600/5750/5850/6500/7000 MHz Additional CF for other liquids and frequencies upon request		
Frequency	10 MHz to > 6 GHz		
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)		
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)		
Dimensions	Tip diameter: 2.5 mm		
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.		

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PHANTOM (ELI)

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

DEVICE HOLDER

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

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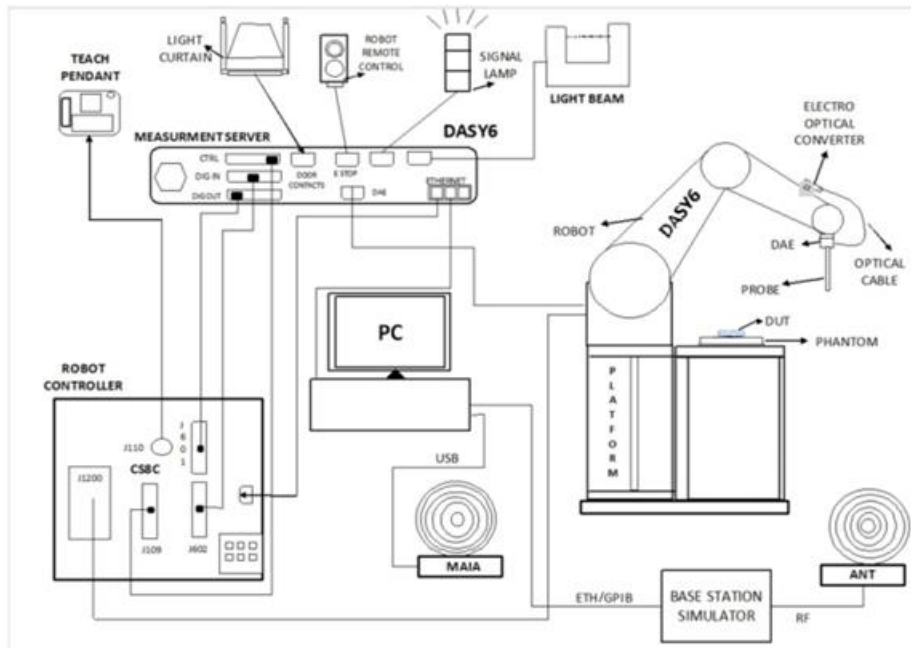
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2.3 PD system

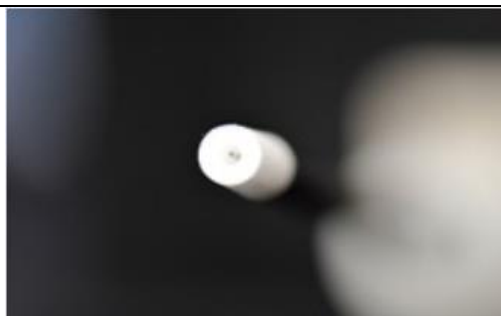
Block Diagram (DASY6)

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.

Frequency Range

750 MHz – 110 GHz

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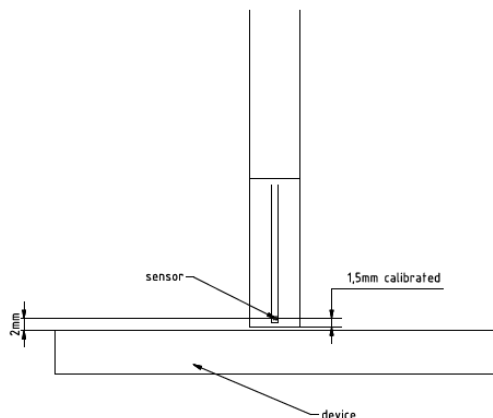
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Dynamic Range	< 20 V/m – 10,000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm (DASY6)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: encapsulation 8 mm (internal sensor < 1mm) Distance from probe tip to dipole 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



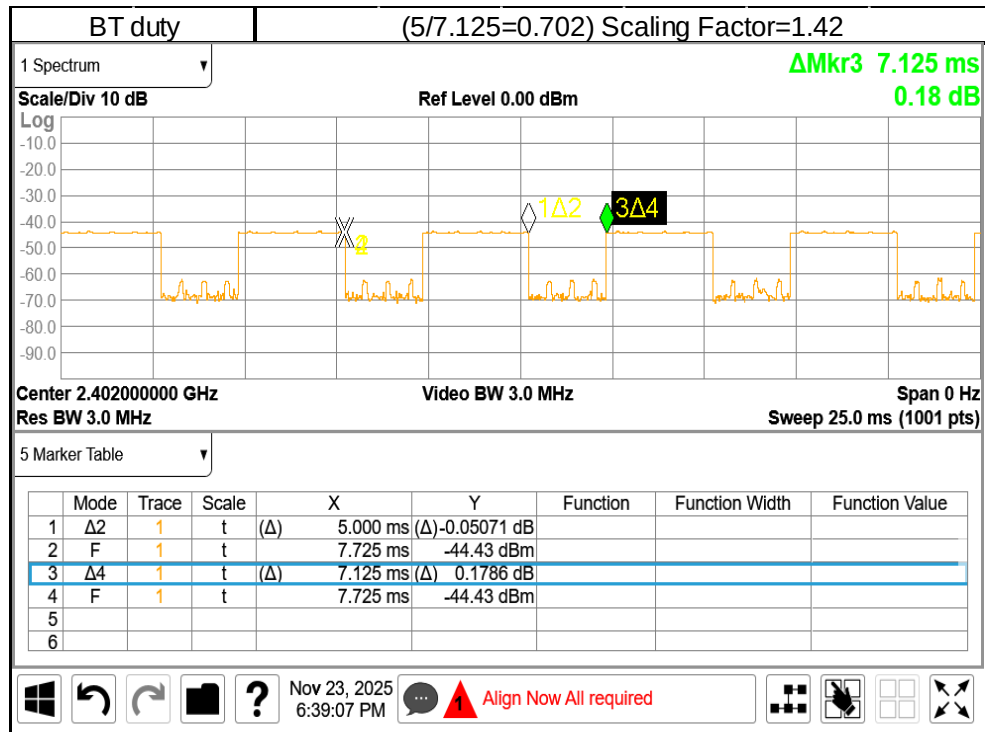
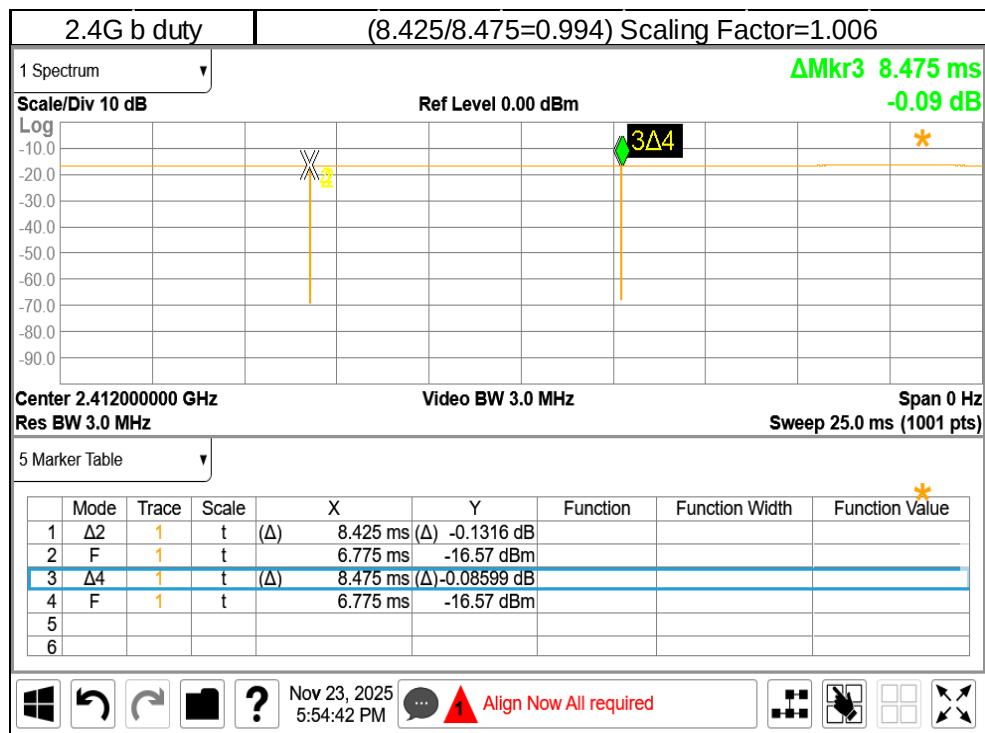
mmWave Phantom

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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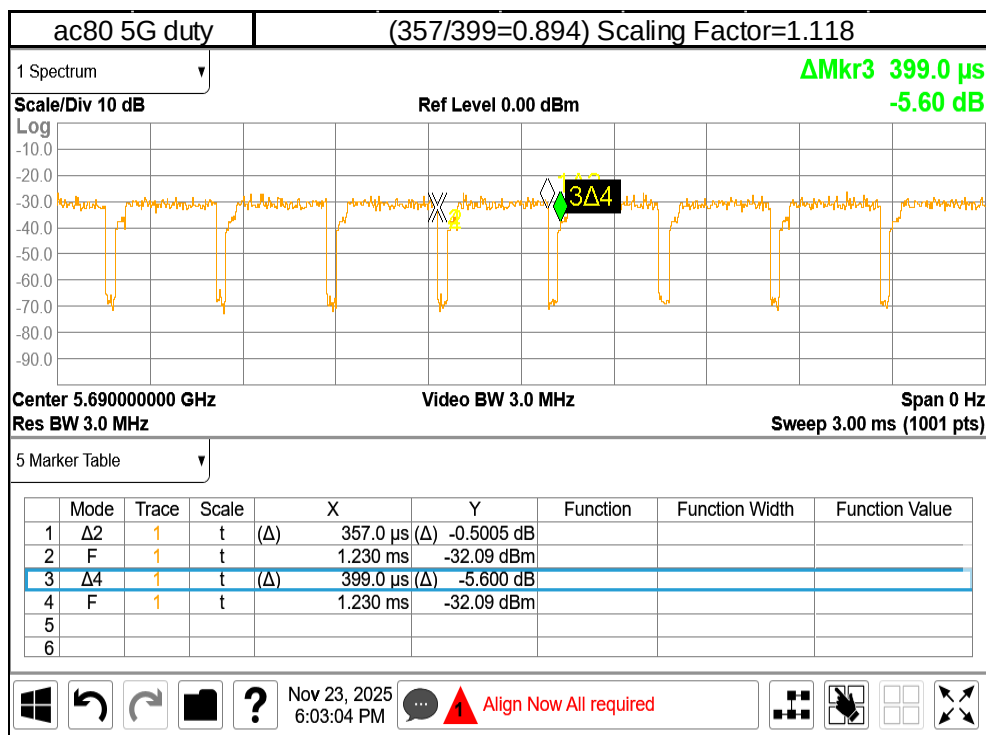
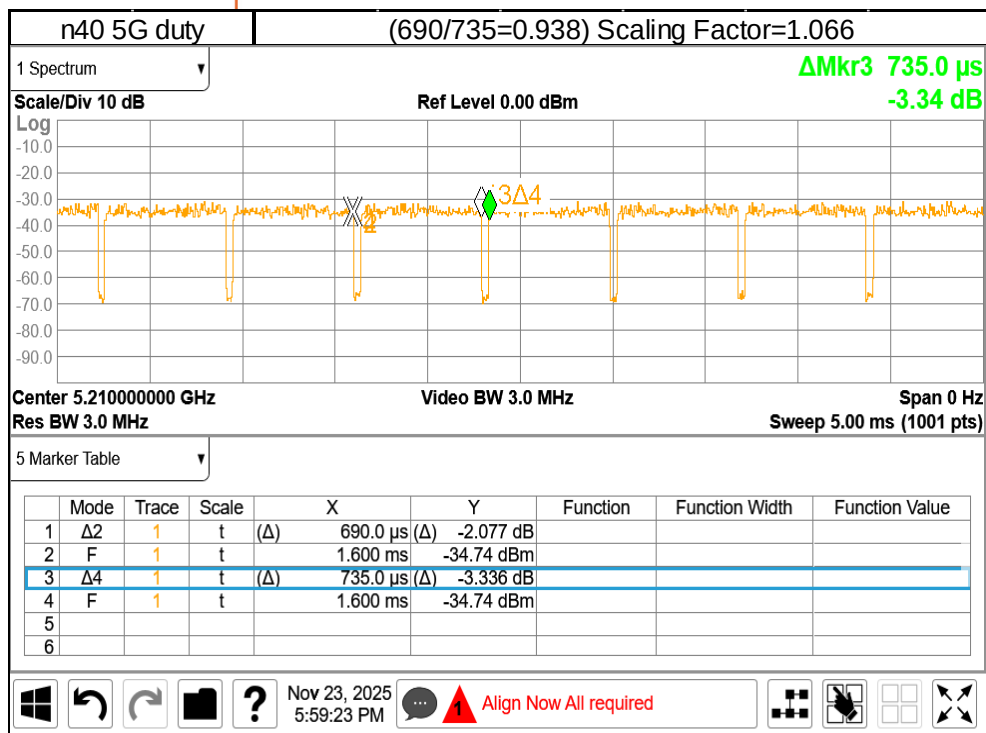
3 DUTY CYCLE



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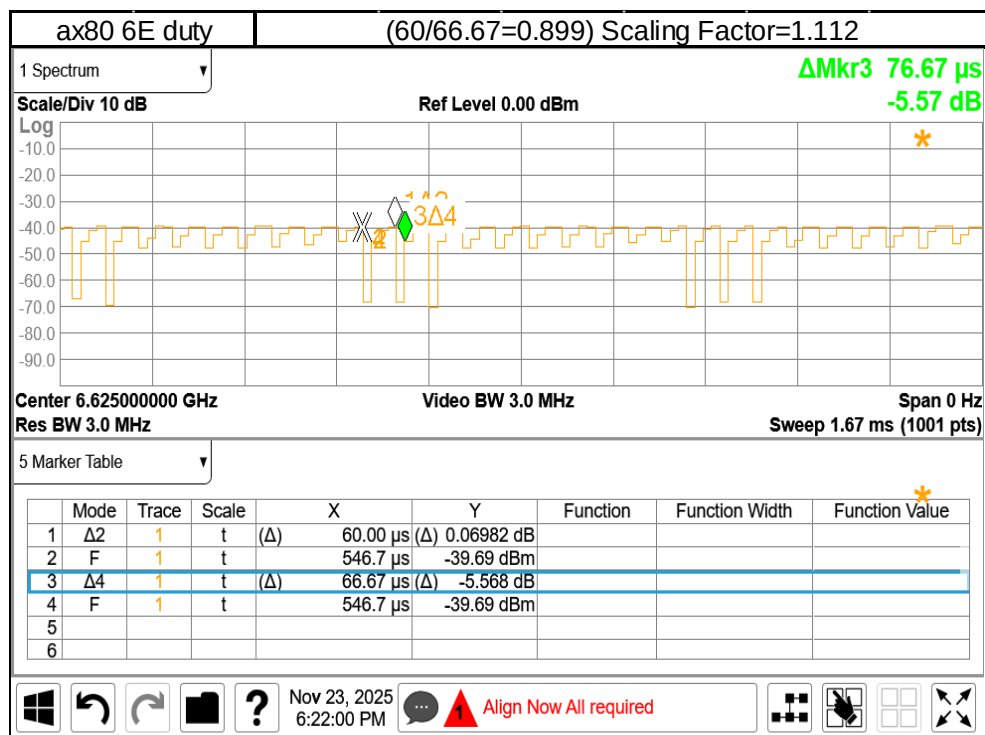
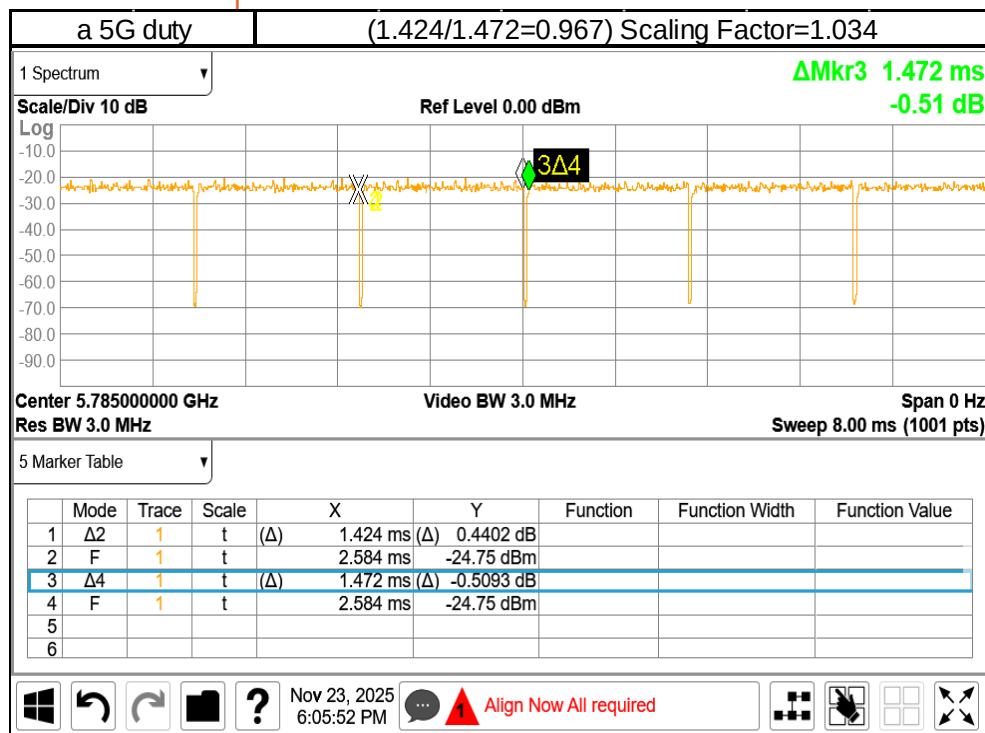
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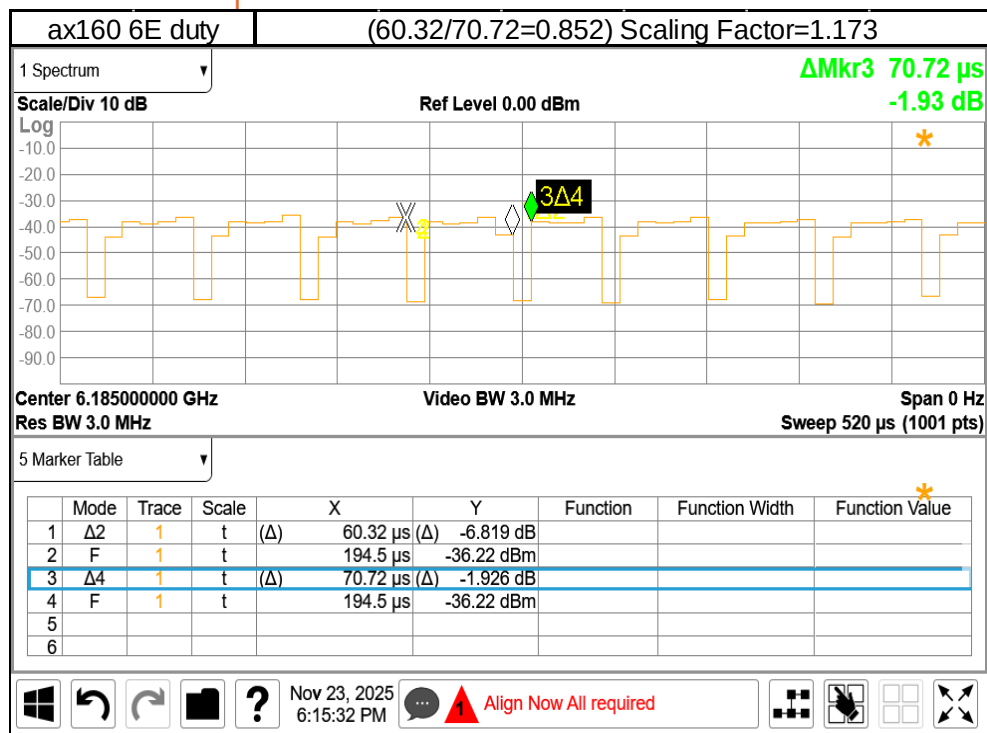
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4 SAR SYSTEM VERIFICATION

4.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear rint (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

4.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within $\pm 5\%$ of the target values.

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4.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
2402	39.296	1.758	39.797	1.819	1.27%	3.45%	$\pm 5\%$	Nov. 17, 2025
2412	39.276	1.767	39.779	1.828	1.28%	3.45%	$\pm 5\%$	
2437	39.226	1.789	39.735	1.850	1.30%	3.43%	$\pm 5\%$	
2440	39.220	1.791	39.730	1.853	1.30%	3.44%	$\pm 5\%$	
2450	39.200	1.800	39.712	1.861	1.31%	3.39%	$\pm 5\%$	
2462	39.184	1.813	39.696	1.872	1.31%	3.27%	$\pm 5\%$	
2480	39.160	1.832	39.674	1.889	1.31%	3.11%	$\pm 5\%$	
5190	36.010	4.650	36.509	4.738	1.39%	1.90%	$\pm 5\%$	Nov. 18, 2025
5230	35.970	4.690	36.463	4.779	1.37%	1.90%	$\pm 5\%$	
5250	35.950	4.710	36.440	4.800	1.36%	1.91%	$\pm 5\%$	
5270	35.930	4.730	36.417	4.821	1.36%	1.92%	$\pm 5\%$	
5310	35.890	4.770	36.372	4.863	1.34%	1.95%	$\pm 5\%$	
5530	35.605	4.997	36.120	5.094	1.45%	1.95%	$\pm 5\%$	Nov. 19, 2025
5600	35.500	5.070	36.040	5.166	1.52%	1.89%	$\pm 5\%$	
5610	35.490	5.080	36.029	5.177	1.52%	1.91%	$\pm 5\%$	
5690	35.410	5.160	35.937	5.260	1.49%	1.94%	$\pm 5\%$	Nov. 20, 2025
5745	35.355	5.215	35.875	5.317	1.47%	1.96%	$\pm 5\%$	
5750	35.350	5.220	35.869	5.322	1.47%	1.95%	$\pm 5\%$	
5755	35.345	5.225	35.863	5.327	1.47%	1.95%	$\pm 5\%$	
5785	35.315	5.255	35.829	5.359	1.46%	1.98%	$\pm 5\%$	
5795	35.305	5.265	35.817	5.369	1.45%	1.98%	$\pm 5\%$	
5850	35.250	5.323	35.755	5.427	1.43%	1.96%	$\pm 5\%$	
5855	35.245	5.328	35.749	5.432	1.43%	1.96%	$\pm 5\%$	
6025	35.070	5.510	35.553	5.611	1.38%	1.84%	$\pm 5\%$	Nov. 21, 2025
6185	34.878	5.698	35.361	5.780	1.38%	1.43%	$\pm 5\%$	
6345	34.686	5.887	35.169	5.950	1.39%	1.07%	$\pm 5\%$	
6500	34.500	6.070	34.983	6.116	1.40%	0.76%	$\pm 5\%$	
6505	34.494	6.076	34.977	6.122	1.40%	0.76%	$\pm 5\%$	
6625	34.350	6.215	34.833	6.251	1.41%	0.58%	$\pm 5\%$	
6705	34.254	6.308	34.737	6.337	1.41%	0.46%	$\pm 5\%$	
6785	34.158	6.401	34.641	6.424	1.41%	0.37%	$\pm 5\%$	
6985	33.918	6.633	34.401	6.642	1.42%	0.14%	$\pm 5\%$	Nov. 22, 2025
7000	33.900	6.650	34.383	6.658	1.42%	0.12%	$\pm 5\%$	

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4.4 The composition of the tissue simulating liquid:

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

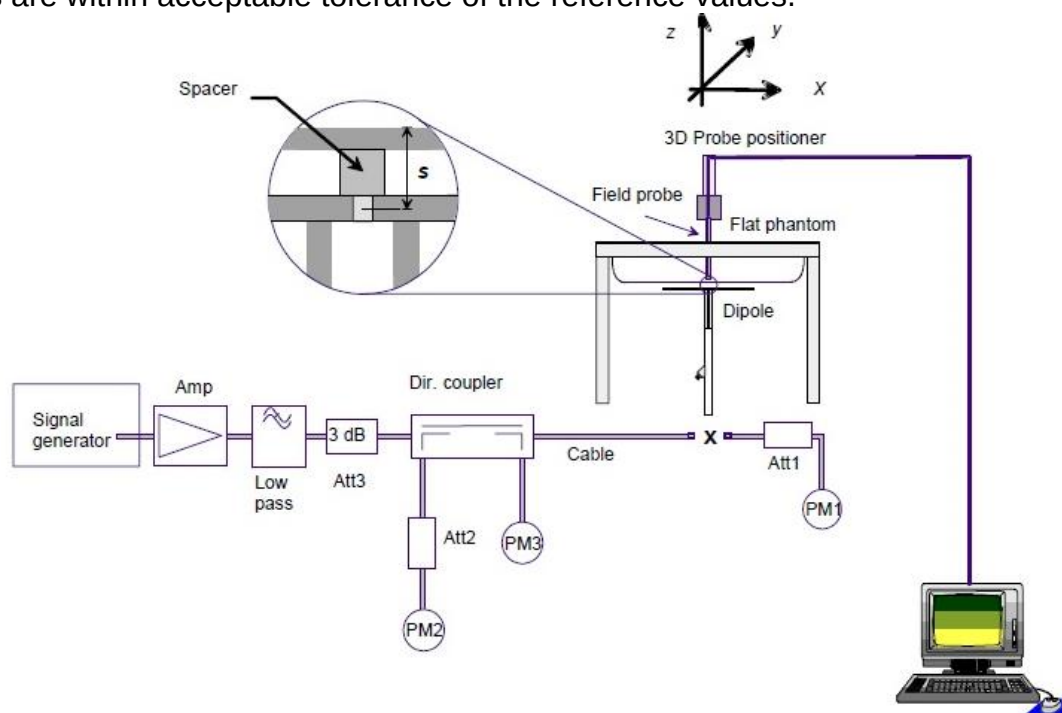
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

4.5 System check

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

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

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



The block diagram of system check

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4.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.6	13.1	52.4	-0.38	± 10%	Nov.17,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1349	5250	80.9	8.37	83.7	3.46	± 10%	Nov.18,2025
D5GHzV2	1349	5600	82.4	8.63	86.3	4.73	± 10%	Nov.19,2025
D5GHzV2	1349	5750	80.8	8.34	83.4	3.22	± 10%	Nov.20,2025
D5GHzV2	1349	5850	79.9	7.65	76.5	-4.26	± 10%	Nov.20,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	295	28.5	285	-3.39	± 10%	Nov.21,2025
D7GHzV2	1007	7000	287	28.3	283	-1.39	± 10%	Nov.22,2025

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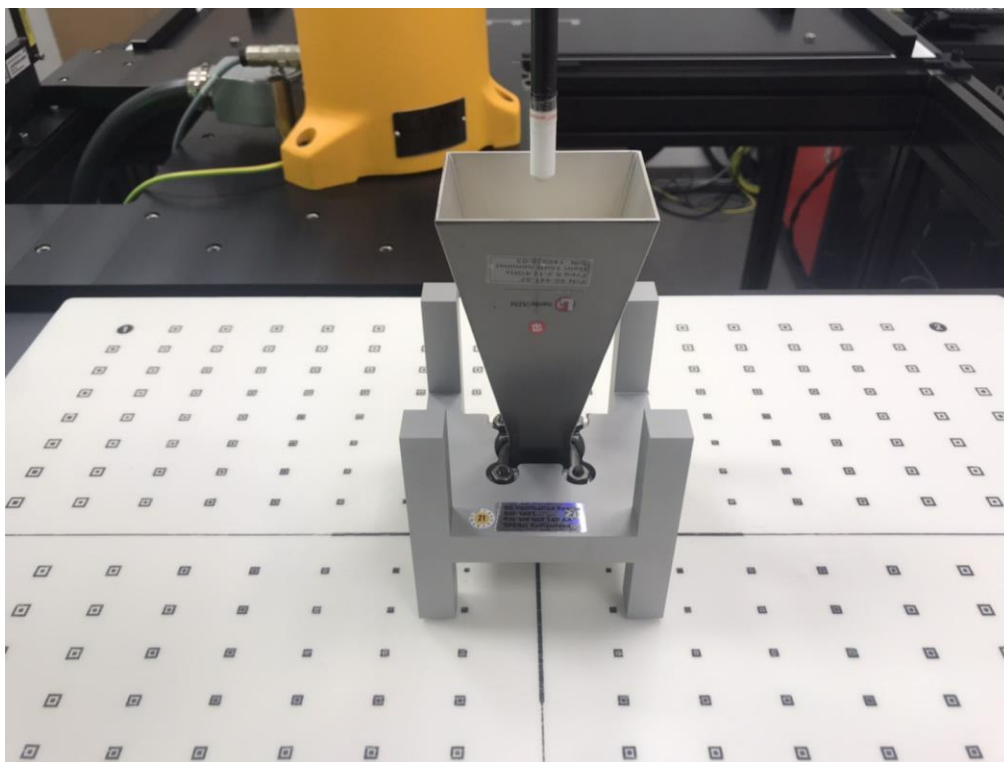
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5 PD SYSTEM VERIFICATION

5.1 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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5.2 System check result

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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	9399	1665	10	93.3	52.1	55.5	-0.27	Nov.23,2025

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6 TEST CONFIGURATIONS

6.1 Test Environment

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

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

6.2 Test Note

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

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

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

- **WLAN 6GHz:** Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209-1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance). For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.

- **WLAN 6GHz:** Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ with the grid step (0.0625λ) for determining compliance at $d=2\text{mm}$.

- **WLAN 6GHz:** According to October 2020 TCB Workshop Interim procedures, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.67 dB (85%) was used to determine the psPD measurement scaling factor.

- **WLAN 6GHz:** Per FCC guidance, for simultaneous transmission evaluation, using SAR sum and SPLSR for simultaneous transmit exclusion analyses and evaluations.

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6.3 Test position

Laptop mode SAR test position (0mm)

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

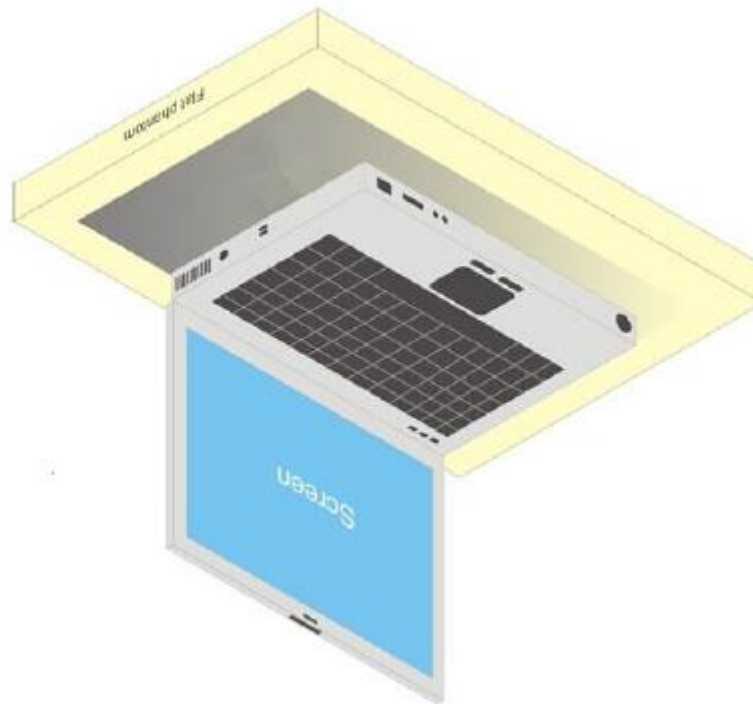


Illustration for Laptop Setup

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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.

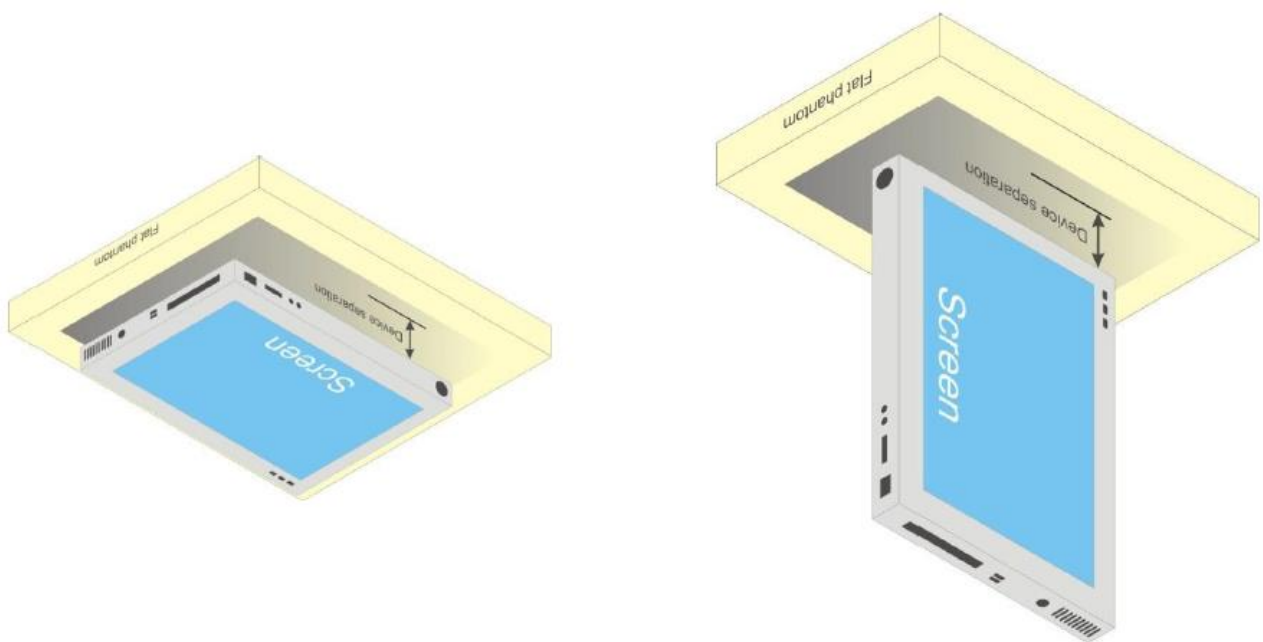


Illustration for Tablet Setup

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6.4 Power verification of device mode

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

Results and conclusion

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

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Device mode verification by power measurement

Antenna	Operation mode	Lid angle	802.11b	802.11a(nm) 5.2G	802.11a(nm) 5.3G	802.11a(nm) 5.8G	802.11a 5.8G	802.11a(nm) 5.8G	802.11a(nm) 5.9G	6.2GHz 802.11a(160M)	6.5GHz 802.11a(160M)	6.75GHz 802.11a(160M)	7.03GHz 802.11a(160M)
Main	Laptop	Lid close	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		10°	21.39	19.32	19.35	19.03	19.94	19.63	19.73	21.42	9.44	22.49	9.53
		5°	21.34	19.30	19.39	18.96	19.88	19.61	19.69	21.42	9.34	22.47	9.48
		1°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		2°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		3°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		4°	21.38	19.23	19.31	18.93	19.86	19.55	19.67	21.35	9.39	22.44	9.51
		5°	21.36	19.28	19.35	18.96	19.94	19.54	19.70	21.37	9.36	22.43	9.45
		6°	21.29	19.29	19.25	18.96	19.91	19.53	19.66	21.34	9.35	22.40	9.50
		7°	21.37	19.24	19.25	18.95	19.94	19.56	19.70	21.40	9.37	22.47	9.50
	Lid close	8°	21.33	19.26	19.31	19.03	19.92	19.55	19.72	21.37	9.44	22.41	9.52
		9°	21.29	19.27	19.28	18.96	19.94	19.62	19.63	21.39	9.37	22.45	9.48
		10°	21.32	19.23	19.27	18.97	19.93	19.59	19.65	21.39	9.34	22.40	9.50
		20°	21.34	19.22	19.29	18.93	19.90	19.53	19.73	21.36	9.39	22.40	9.46
		30°	21.35	19.28	19.26	19.00	19.90	19.60	19.65	21.33	9.41	22.42	9.47
		40°	21.32	19.32	19.33	18.93	19.87	19.53	19.70	21.41	9.44	22.41	9.44
		50°	21.34	19.26	19.30	19.01	19.87	19.61	19.69	21.42	9.37	22.39	9.53
		60°	21.37	19.28	19.34	18.95	19.94	19.62	19.70	21.39	9.43	22.44	9.44
		70°	21.32	19.31	19.27	18.95	19.89	19.62	19.71	21.41	9.43	22.46	9.46
		80°	21.36	19.22	19.34	18.94	19.85	19.62	19.68	21.38	9.39	22.48	9.45
	Laptop	90°	21.39	19.25	19.35	18.98	19.85	19.62	19.73	21.34	9.35	22.44	9.50
		100°	21.29	19.32	19.33	18.97	19.86	19.58	19.69	21.37	9.41	22.40	9.43
		110°	21.32	19.25	19.32	18.96	19.87	19.55	19.68	21.38	9.36	22.41	9.51
		120°	21.36	19.27	19.31	18.97	19.90	19.53	19.69	21.32	9.40	22.46	9.50
		130°	21.38	19.22	19.28	18.95	19.87	19.58	19.72	21.33	9.37	22.47	9.50
		140°	21.33	19.29	19.32	18.93	19.85	19.56	19.73	21.41	9.41	22.48	9.46
		150°	21.37	19.26	19.29	18.94	19.86	19.53	19.63	21.36	9.39	22.49	9.43
		160°	21.31	19.29	19.25	19.02	19.90	19.58	19.70	21.38	9.41	22.48	9.53
		170°	21.34	19.28	19.25	18.99	19.88	19.54	19.64	21.32	9.43	22.41	9.43
		180°	21.30	19.24	19.35	18.99	19.94	19.55	19.73	21.40	9.37	22.48	9.51
	Tablet	190°	21.31	19.22	19.31	18.97	19.88	19.58	19.68	21.35	9.37	22.41	9.51
		200°	21.35	19.23	19.31	18.98	19.86	19.56	19.64	21.40	9.44	22.44	9.52
		210°	21.38	19.31	19.31	19.01	19.91	19.58	19.72	21.31	9.45	22.49	9.44
		220°	21.39	19.29	19.31	19.01	19.94	19.63	19.73	21.37	9.44	22.46	9.53
		230°	21.37	19.26	19.25	18.95	19.88	19.54	19.63	21.38	9.40	22.40	9.49
		240°	21.32	19.26	19.24	18.95	19.88	19.55	19.68	21.39	9.35	22.41	9.51
		250°	21.35	19.28	19.26	19.01	19.92	19.61	19.73	21.37	9.43	22.44	9.50
		260°	21.38	19.23	19.25	19.02	19.93	19.57	19.70	21.36	9.39	22.46	9.51
		270°	21.39	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		280°	21.36	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
	Laptop	290°	21.33	19.30	19.31	19.01	19.94	19.58	19.70	21.36	9.39	22.46	9.46
		300°	21.38	19.23	19.24	18.95	19.85	19.55	19.68	21.39	9.35	22.41	9.51
		310°	21.35	19.28	19.26	19.01	19.92	19.61	19.73	21.37	9.43	22.44	9.50
		320°	21.38	19.23	19.25	19.02	19.93	19.57	19.70	21.36	9.39	22.46	9.51
		330°	21.39	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		340°	21.36	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		350°	21.33	19.30	19.31	19.01	19.94	19.58	19.70	21.36	9.39	22.46	9.46
		360°	21.38	19.23	19.24	18.95	19.85	19.55	19.68	21.39	9.35	22.41	9.51
		370°	21.35	19.28	19.26	19.01	19.92	19.61	19.73	21.37	9.43	22.44	9.50
		380°	21.38	19.23	19.25	19.02	19.93	19.57	19.70	21.36	9.39	22.46	9.51
	Tablet	390°	21.39	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		400°	21.36	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		410°	21.33	19.30	19.31	19.01	19.94	19.58	19.70	21.36	9.39	22.46	9.46
		420°	21.38	19.23	19.24	18.95	19.85	19.55	19.68	21.39	9.35	22.41	9.51
		430°	21.35	19.28	19.26	19.01	19.92	19.61	19.73	21.37	9.43	22.44	9.50
		440°	21.38	19.23	19.25	19.02	19.93	19.57	19.70	21.36	9.39	22.46	9.51
		450°	21.39	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		460°	21.36	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		470°	21.33	19.30	19.31	19.01	19.94	19.58	19.70	21.36	9.39	22.46	9.46
		480°	21.38	19.23	19.24	18.95	19.85	19.55	19.68	21.39	9.35	22.41	9.51
	Laptop	490°	21.35	19.28	19.26	19.01	19.92	19.61	19.73	21.37	9.43	22.44	9.50
		500°	21.38	19.23	19.25	19.02	19.93	19.57	19.70	21.36	9.39	22.46	9.51
		510°	21.39	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		520°	21.36	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		530°	21.33	19.30	19.31	19.01	19.94	19.58	19.70	21.36	9.39	22.46	9.46
		540°	21.38	19.23	19.24	18.95	19.85	19.55	19.68	21.39	9.35	22.41	9.51
		550°	21.35	19.28	19.26	19.01	19.92	19.61	19.73	21.37	9.43	22.44	9.50
		560°	21.38	19.23	19.25	19.02	19.93	19.57	19.70	21.36	9.39	22.46	9.51
		570°	21.39	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		580°	21.36	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
	Tablet	590°	21.33	19.30	19.31	19.01	19.94	19.58	19.70	21.36	9.39	22.46	9.46
		600°	21.38	19.23	19.24	18.95	19.85	19.55	19.68	21.39	9.35	22.41	9.51
		610°	21.35	19.28	19.26	19.01	19.92	19.61	19.73	21.37	9.43	22.44	9.50
		620°	21.38	19.23	19.25	19.02	19.93	19.57	19.70	21.36	9.39	22.46	9.51
		630°	21.39	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		640°	21.36	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		650°	21.33	19.30	19.31	19.01	19.94	19.58	19.70	21.36	9.39	22.46	9.46
		660°	21.38	19.23	19.24	18.95	19.85	19.55	19.68	21.39	9.35	22.41	9.51
		670°	21.35	19.28	19.26	19.01	19.92	19.61	19.73	21.37	9.43	22.44	9.50
		680°	21.38	19.23	19.25	19.02	19.93	19.57	19.70	21.36	9.39	22.46	9.51
	Laptop	690°	21.39	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		700°	21.36	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		710°	21.33	19.30	19.31	19.01	19.94	19.58	19.70	21.36	9.39	22.46	9.46
		720°	21.38	19.23	19.24	18.95	19.85	19.55	19.68	21.39	9.35	22.41	9.51
		730°	21.35	19.28	19.26	19.01	19.92	19.61	19.73	21.37	9.43	22.44	9.50
		740°	21.38	19.23	19.25	19.02	19.93	19.57	19.70	21.36	9.39	22.46	9.51
		750°	21.39	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		760°	21.36	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		770°	21.33	19.30	19.31	19.01	19.94	19.58	19.70	21.36	9.39	22.46	9.46
		780°	21.38	19.23	19.24	18.95	19.85	19.55	19.68	21.39	9.35	22.41	9.51
	Tablet	790°	21.35	19.28	19.26	19.01	19.92	19.61	19.73	21.37	9.43	22.44	9.50
		800°	21.38	19.23	19.25	19.02	19.93	19.57	19.70	21.36	9.39	22.46	9.51
		810°	21.39	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		820°	21.36	19.28	19.25	18.98	19.90	19.57	19.68	21.37	9.43	22.46	9.51
		830°	21.33	19.30	19.31	19.01	19.94	19.58	19.70	21.36	9.39	22.46	9.46
		840°	21.38	19.23	19.24	18.95	19.85	19.55	19.68	21.39	9.35	22.41	9.51
		850°	21.35	19.28	19.								

Antenna	Operation mode	Lid angle	R02 11b	R02 11u(40M) 5.2G	R02 11u(40M) 5.3G	R02 11a(80M) 5.6G	R02 11a 5.8G	R02 11u(40M) 5.8G	R02 11a(80M) 5.9G	6.2GHz R02 11u(160M)	6.5GHz R02 11u(160M)	6.7GHz R02 11u(80M)	7.0GHz R02 11u(160M)		
Laptop	Lid close	0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		10°	20.88	19.67	20.05	19.19	19.85	19.68	18.73	21.83	8.72	22.20	8.91		
	Lid open	20°	20.82	19.67	20.02	19.12	19.76	19.61	18.72	21.83	8.65	22.19	8.83		
		3°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		1°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		2°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		3°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		4°	20.87	19.62	19.98	19.13	19.82	19.62	18.69	21.83	8.69	22.20	8.83		
		5°	20.88	19.57	19.99	19.11	19.83	19.59	18.67	21.77	8.71	22.15	8.86		
		6°	20.79	19.62	19.98	19.19	19.82	19.68	18.71	21.75	8.66	22.17	8.87		
	Laptop	Lid close	7°	20.79	19.61	19.98	19.11	19.77	19.60	18.66	21.80	8.65	22.19	8.90	
			8°	20.80	19.66	19.95	19.09	19.75	19.67	18.70	21.80	8.72	22.14	8.81	
		Lid open	9°	20.81	19.66	20.05	19.10	19.78	19.65	18.73	21.80	8.65	22.19	8.89	
			10°	20.88	19.62	19.95	19.15	19.75	19.58	18.64	21.77	8.65	22.12	8.88	
			20°	20.84	19.58	20.02	19.15	19.81	19.63	18.63	21.75	8.68	22.11	8.91	
			30°	20.82	19.67	20.03	19.13	19.81	19.61	18.70	21.78	8.71	22.17	8.87	
			40°	20.79	19.59	20.01	19.12	19.85	19.65	18.65	21.79	8.72	22.14	8.81	
			50°	20.80	19.66	20.04	19.14	19.81	19.58	18.66	21.77	8.68	22.19	8.85	
			60°	20.88	19.58	19.97	19.12	19.77	19.63	18.66	21.72	8.72	22.13	8.85	
			70°	20.81	19.60	20.05	19.09	19.85	19.63	18.68	21.73	8.70	22.19	8.82	
			80°	20.85	19.62	19.99	19.14	19.85	19.65	18.63	21.81	8.69	22.16	8.91	
			90°	20.81	19.66	20.01	19.15	19.79	19.60	18.66	21.73	8.67	22.14	8.88	
	Tablet	Lid close	100°	20.87	19.61	20.05	19.14	19.78	19.60	18.64	21.82	8.68	22.13	8.91	
			110°	20.87	19.62	20.03	19.13	19.75	19.67	18.70	21.83	8.66	22.12	8.81	
		Lid open	120°	20.79	19.67	19.97	19.16	19.78	19.62	18.68	21.75	8.66	22.10	8.91	
			130°	20.78	19.60	19.99	19.10	19.81	19.64	18.69	21.82	8.67	22.15	8.86	
			140°	20.88	19.63	20.04	19.12	19.84	19.58	18.72	21.83	8.68	22.13	8.89	
			150°	20.78	19.64	20.03	19.14	19.81	19.62	18.63	21.81	8.70	22.20	8.83	
			160°	20.83	19.63	20.04	19.11	19.84	19.65	18.68	21.79	8.66	22.14	8.89	
			170°	20.82	19.66	19.98	19.13	19.82	19.66	18.73	21.70	8.70	22.15	8.85	
180°			20.83	19.66	20.03	19.17	19.85	19.67	18.64	21.83	8.65	22.15	8.90		
190°			20.85	19.64	19.97	19.09	19.79	19.59	18.68	21.77	8.64	22.13	8.83		
200°			20.83	19.64	19.95	19.13	19.82	19.62	18.72	21.73	8.72	22.12	8.87		
210°			20.79	19.61	19.96	19.12	19.78	19.65	18.67	21.75	8.65	22.11	8.85		
220°			20.88	17.99	17.59	17.98	19.85	19.68	18.73	19.88	8.72	15.79	8.91		
Laptop			Lid close	215°	20.79	19.59	20.00	19.11	19.81	19.65	18.69	21.81	8.64	22.20	8.81
				218°	20.86	19.61	20.05	19.18	19.78	19.59	18.66	21.80	8.64	22.17	8.81
			Lid open	217°	20.79	19.57	19.97	19.17	19.77	19.61	18.70	21.81	8.68	22.18	8.89
				218°	20.78	19.67	19.98	19.14	19.76	19.65	18.73	21.79	8.68	22.14	8.82
				219°	20.85	19.59	19.97	19.10	19.79	19.66	18.73	21.79	8.70	22.15	8.84
	220°	20.85		17.91	17.49	17.94	19.80	19.66	18.63	19.86	8.67	15.72	8.84		
	221°	20.83		17.93	17.53	17.95	19.78	19.59	18.67	19.85	8.73	15.73	8.91		
	222°	20.79		17.92	17.51	17.92	19.75	19.58	18.71	19.83	8.66	15.70	8.91		
	223°	20.79		17.91	17.49	17.89	19.77	19.63	18.70	19.86	8.72	15.71	8.89		
	224°	20.84		17.93	17.53	17.94	19.80	19.65	18.71	19.84	8.69	15.70	8.85		
	225°	20.85		17.95	17.53	17.95	19.85	19.61	18.69	19.79	8.63	15.69	8.86		
	226°	20.84		17.89	17.53	17.95	19.85	19.67	18.68	19.79	8.67	15.79	8.84		
	245°	20.83		17.93	17.53	17.95	19.81	19.66	18.64	19.87	8.65	15.69	8.85		
	255°	20.78		17.97	17.54	17.98	19.85	19.64	18.71	19.81	8.62	15.79	8.86		
	262°	20.78		17.97	17.58	17.89	19.83	19.59	18.64	19.81	8.66	15.71	8.83		
	275°	20.87		17.98	17.55	17.96	19.85	19.68	18.71	19.87	8.66	15.71	8.84		
	285°	20.88		17.97	17.59	17.89	19.79	19.61	18.71	19.86	8.72	15.69	8.90		
	290°	20.81		17.96	17.54	17.92	19.77	19.66	18.70	19.82	8.70	15.71	8.85		
305°	20.86	17.96	17.51	17.92	19.80	19.67	18.64	19.78	8.66	15.71	8.83				
315°	20.86	17.96	17.59	17.92	19.80	19.64	18.68	19.86	8.69	15.71	8.83				
325°	20.80	17.98	17.56	17.89	19.82	19.62	18.72	19.78	8.70	15.72	8.88				
330°	20.80	17.95	17.57	17.90	19.84	19.59	18.69	19.85	8.65	15.74	8.87				
345°	20.79	17.98	17.53	17.90	19.75	19.68	18.64	19.78	8.71	15.71	8.85				
350°	20.83	17.96	17.59	17.89	19.75	19.64	18.70	19.86	8.69	15.75	8.82				
Aux	Lid close	360°	20.88	17.99	17.57	17.88	19.83	19.67	18.69	19.84	8.67	15.77	8.81		
		360°	20.85	17.99	17.58	17.94	19.79	19.68	18.71	19.88	8.68	15.74	8.87		
	Tablet	Lid open	340°	20.87	17.94	17.51	17.95	19.83	19.61	18.72	19.73	8.63	15.76	8.85	
			330°	20.78	17.91	17.58	17.95	19.84	19.58	18.66	19.78	8.68	15.78	8.90	
		320°	20.86	17.96	17.59	17.98	19.79	19.69	18.73	19.83	8.67	15.79	8.88		
		310°	20.78	17.91	17.51	17.91	19.80	19.62	18.66	19.79	8.69	15.74	8.91		
		300°	20.83	17.94	17.53	17.98	19.83	19.68	18.64	19.84	8.62	15.76	8.82		
		290°	20.84	17.96	17.57	17.91	19.78	19.64	18.70	19.87	8.67	15.79	8.86		
		280°	20.86	17.98	17.49	17.88	19.75	19.68	18.72	19.85	8.65	15.74	8.85		
		270°	20.80	17.99	17.53	17.91	19.82	19.59	18.70	19.86	8.68	15.72	8.82		
		260°	20.80	17.90	17.57	17.96	19.76	19.62	18.70	19.80	8.62	15.79	8.84		
		250°	20.87	17.96	17.53	17.97	19.79	19.62	18.67	19.88	8.70	15.69	8.90		
		240°	20.81	17.98	17.49	17.87	19.82	19.65	18.67	19.83	8.63	15.73	8.87		
		230°	20.84	17.98	17.50	17.97	19.84	19.59	18.73	19.85	8.70	15.74	8.89		
		220°	20.86	17.93	17.50	17.89	19.82	19.59	18.67	19.88	8.70	15.76	8.84		
		Laptop	Lid close	210°	20.79	19.57	20.01	19.09	19.77	19.64	18.69	21.80	8.64	22.20	8.89
				200°	20.78	19.60	20.01	19.12	19.76	19.68	18.71	21.79	8.65	22.15	8.86
			Lid open	220°	20.82	17.97	17.52	17.98	19.75	19.60	18.73	19.83	8.64	15.76	8.90
				219°	20.84	19.64	19.99	19.15	19.77	19.63	18.64	21.81	8.64	22.16	8.86
				218°	20.81	19.67	19.98	19.14	19.77	19.65	18.66	21.79	8.63	22.19	8.83
	217°			20.80	19.61	19.98	19.15	19.77	19.60	18.70	21.78	8.62	22.13	8.90	
	216°			20.81	19.65	20.02	19.16	19.76	19.58	18.70	21.79	8.66	22.20	8.91	
	215°			20.87	19.60	20.01	19.09	19.77	19.67	18.69	21.81	8.67	22.16	8.84	
	214°			20.80	19.57	20.05	19.11	19.79	19.66	18.70	21.76	8.66	22.19	8.91	
	213°			20.79	19.58	20.02	19.12	19.85	19.68	18.66	21.73	8.66	22.16	8.86	
	212°			20.85	19.67	20.05	19.16	19.77	19.60	18.65	21.78	8.70	22.14	8.91	
	211°			20.86	19.65	20.05	19.09	19.75	19.65	18.69	21.73	8.62	22.19	8.81	
	210°	20.87	19.67	19.96	19.18	19.76	19.63	18.63	21.73	8.68	22.16	8.83			
	Laptop	Lid close	200°	20.84	19.67	20.04	19.10	19.77	19.64	18.66	21.81	8.71	22.12	8.83	
			190°	20.81	19.69	19.99	19.14	19.80	19.67	18.67	21.80	8.68	22.20	8.82	
Lid open		180°	20.85	19.58	20.02	19.17	19.81	19.65	18.73	21.81	8.66	22.11	8.82		
		170°	20.81	19.60	20.05	19.17	19.80	19.63	18.72	21.73	8.64	22.19	8.84		
		160°	20.78	19.60	20.04	19.19	19.79	19.58	18.64	21.77	8.71	22.14	8.87		
		150°	20.79	19.62	20.02	19.16	19.82	19.65	18.64	21.82	8.67	22.19	8.89		
		140°	20.80	19.60	19.95	19.16	19.81	19.66	18.67	21.78					

6.5 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 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

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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on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in [Section 4.1](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

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

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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Notebook mode

Ant 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	21.50	21.39
		6	2437		20.50	20.28
		11	2462		20.50	20.10
	802.11g	1	2412	6Mbps	17.50	17.18
		6	2437		21.00	20.55
		11	2462		17.50	17.20
	802.11n20-HT0	1	2412	MCS0	17.50	17.10
		6	2437		20.50	19.97
		11	2462		17.50	17.01
	802.11ac20-VHT0	1	2412	MCS0	17.50	17.22
		6	2437		20.50	20.01
		11	2462		17.50	16.91
	802.11ax20-HE0	1	2412	MCS0	18.00	17.51
		6	2437		20.50	20.05
		11	2462		17.50	17.38
	802.11n40-HT0	3	2422	MCS0	16.00	15.79
		6	2437		17.50	17.25
		9	2452		16.50	15.85
	802.11ac40-VHT0	3	2422	MCS0	16.00	15.68
		6	2437		17.50	17.24
		9	2452		16.50	15.88
	802.11ax40-HE0	3	2422	MCS0	16.50	15.84
		6	2437		18.00	17.30
		9	2452		16.50	15.93

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Ant 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	19.00	18.53
		40	5200		19.00	18.58
		44	5220		19.00	18.54
		48	5240		19.00	18.53
	802.11n20-HT0	36	5180	MCS0	18.50	18.03
		40	5200		19.50	18.72
		44	5220		20.00	19.23
		48	5240		20.00	19.22
	802.11ac20-VHT0	36	5180	MCS0	18.50	17.97
		40	5200		19.50	18.72
		44	5220		20.00	19.26
		48	5240		20.00	19.22
	802.11ax20-HE0	36	5180	MCS0	19.00	18.12
		40	5200		19.50	18.89
		44	5220		20.00	19.29
		48	5240		20.00	19.30
	802.11n40-HT0	38	5190	MCS0	17.50	16.73
		46	5230		20.00	19.32
	802.11ac40-VHT0	38	5190	MCS0	17.50	16.75
		46	5230		20.00	19.30
	802.11ax40-HE0	38	5190	MCS0	17.50	16.80
		46	5230		20.00	19.23
	802.11ac80-VHT0	42	5210	MCS0	13.50	12.74
	802.11ax80-HE0	42	5210	MCS0	13.50	12.96
	802.11ac160-VHT0	50	5250	MCS0	12.00	11.23
	802.11ax160-HE0	50	5250	MCS0	11.50	11.03

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Ant 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	19.00	18.50
		56	5280		19.00	18.38
		60	5300		18.50	17.97
		64	5320		19.00	18.20
	802.11n20-HT0	52	5260	MCS0	19.50	18.93
		56	5280		19.50	18.92
		60	5300		19.50	18.74
		64	5320		19.00	18.41
	802.11ac20-VHT0	52	5260	MCS0	19.50	18.94
		56	5280		19.50	18.95
		60	5300		19.50	18.73
		64	5320		19.00	18.32
	802.11ax20-HE0	52	5260	MCS0	19.50	19.00
		56	5280		19.50	19.03
		60	5300		19.50	18.82
		64	5320		19.00	18.55
	802.11n40-HT0	54	5270	MCS0	20.00	19.35
		62	5310		16.00	15.45
	802.11ac40-VHT0	54	5270	MCS0	20.00	19.22
		62	5310		16.00	15.46
	802.11ax40-HE0	54	5270	MCS0	20.00	19.27
		62	5310		16.00	15.57
	802.11ac80-VHT0	58	5290	MCS0	15.00	14.31
	802.11ax80-HE0	58	5290	MCS0	15.00	14.26

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5.6GHz	802.11a	100	5500	6Mbps	19.00	18.22
		120	5600		19.00	18.32
		140	5700		19.00	18.26
		144	5720		17.50	16.64
	802.11n20-HT0	100	5500	MCS0	18.00	17.49
		120	5600		18.50	17.97
		140	5700		18.50	18.13
		144	5720		17.50	17.01
	802.11ac20-VHT0	100	5500	MCS0	18.00	17.60
		120	5600		18.50	18.05
		140	5700		18.50	17.95
		144	5720		17.50	17.04
	802.11ax20-HE0	100	5500	MCS0	18.50	17.57
		120	5600		19.00	18.24
		140	5700		19.00	18.26
		144	5720		18.00	17.38
	802.11n40-HT0	102	5510	MCS0	18.00	17.41
		118	5590		19.00	18.20
		134	5670		19.00	18.35
		142	5710		18.50	17.56
	802.11ac40-VHT0	102	5510	MCS0	18.00	17.39
		118	5590		19.00	18.23
		134	5670		19.00	18.20
		142	5710		18.50	17.63
	802.11ax40-HE0	102	5510	MCS0	18.00	17.49
		118	5590		19.00	18.31
		134	5670		19.00	18.28
		142	5710		18.50	17.96
	802.11ac80-VHT0	106	5530	MCS0	16.00	15.65
		122	5610		18.00	17.73
		138	5690		20.00	19.03
	802.11ax80-HE0	106	5530	MCS0	16.00	15.45
		122	5610		18.50	17.85
		138	5690		20.00	19.52
	802.11ac160-VHT0	114	5570	MCS0	13.50	12.80
	802.11ax160-HE0	114	5570	MCS0	13.50	12.94

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5.8GHz	802.11a	149	5745	6Mbps	21.00	19.91
		157	5785		21.00	19.77
		165	5825		21.00	19.94
	802.11n20-HT0	149	5745	MCS0	20.50	19.85
		157	5785		20.00	19.82
		165	5825		20.00	19.70
	802.11ac20-VHT0	149	5745	MCS0	20.50	19.88
		157	5785		20.00	19.88
		165	5825		20.00	19.78
	802.11ax20-HE0	149	5745	MCS0	20.50	19.86
		157	5785		20.50	19.75
		165	5825		20.50	19.75
	802.11n40-HT0	151	5755	MCS0	20.00	19.44
		159	5795		20.00	19.63
	802.11ac40-VHT0	151	5755	MCS0	20.00	19.60
		159	5795		20.00	19.52
	802.11ax40-HE0	151	5755	MCS0	20.00	19.61
		159	5795		20.00	19.63
	802.11ac80-VHT0	155	5775	MCS0	19.00	18.30
	802.11ax80-HE0	155	5775	MCS0	19.00	18.56

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5.9GHz	802.11a	169	5845	6Mbps	14.00	13.44
		173	5865		13.50	13.34
		177	5885		14.00	13.27
	802.11n20-HT0	169	5845	MCS0	15.00	14.31
		173	5865		14.50	14.26
		177	5885		14.50	14.24
	802.11ac20-VHT0	169	5845	MCS0	15.00	14.48
		173	5865		14.50	14.25
		177	5885		14.50	14.23
	802.11ax20-HE0	169	5845	MCS0	15.00	14.60
		173	5865		15.00	14.48
		177	5885		15.00	14.38
	802.11n40-HT0	167	5835	MCS0	17.00	16.60
		175	5875		17.00	16.49
	802.11ac40-VHT0	167	5835	MCS0	17.00	16.50
		175	5875		17.00	16.62
	802.11ax40-HE0	167	5835	MCS0	17.00	16.82
		175	5875		17.00	16.79
	802.11ac80-VHT0	171	5855	MCS0	19.00	18.70
	802.11ax80-HE0	171	5855	MCS0	19.00	18.73
	802.11ac160-VHT0	163	5815	MCS0	16.00	15.58
	802.11ax160-HE0	163	5815	MCS0	16.50	15.85

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	21.00	20.88
		6	2437		21.00	20.32
		11	2462		20.50	19.75
	802.11g	1	2412	6Mbps	17.50	17.32
		6	2437		21.00	20.48
		11	2462		18.50	17.35
	802.11n20-HT0	1	2412	MCS0	18.00	17.16
		6	2437		20.50	19.93
		11	2462		18.50	17.01
	802.11ac20-VHT0	1	2412	MCS0	18.00	17.29
		6	2437		20.50	20.00
		11	2462		18.50	16.97
	802.11ax20-HE0	1	2412	MCS0	18.00	17.33
		6	2437		21.00	20.02
		11	2462		18.50	17.20
	802.11n40-HT0	3	2422	MCS0	16.00	15.69
		6	2437		17.50	17.18
		9	2452		16.50	15.90
	802.11ac40-VHT0	3	2422	MCS0	16.00	15.68
		6	2437		17.50	17.23
		9	2452		16.50	15.77
	802.11ax40-HE0	3	2422	MCS0	16.50	15.87
		6	2437		18.00	17.34
		9	2452		16.50	15.94

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5.15-5.25 GHz	802.11a	36	5180	6Mbps	19.50	18.42
		40	5200		19.50	18.46
		44	5220		19.50	18.57
		48	5240		19.50	18.37
	802.11n20-HT0	36	5180	MCS0	19.00	18.03
		40	5200		19.50	18.72
		44	5220		20.00	19.34
		48	5240		20.00	19.30
	802.11ac20-VHT0	36	5180	MCS0	19.00	18.14
		40	5200		19.50	18.83
		44	5220		20.00	19.27
		48	5240		20.00	19.16
	802.11ax20-HE0	36	5180	MCS0	19.00	18.08
		40	5200		19.50	18.90
		44	5220		20.00	19.27
		48	5240		20.00	19.26
	802.11n40-HT0	38	5190	MCS0	17.50	17.11
		46	5230		20.00	19.67
	802.11ac40-VHT0	38	5190	MCS0	17.50	16.74
		46	5230		20.00	19.30
	802.11ax40-HE0	38	5190	MCS0	17.50	16.77
		46	5230		20.00	19.39
	802.11ac80-VHT0	42	5210	MCS0	13.50	12.85
	802.11ax80-HE0	42	5210	MCS0	13.50	13.10
	802.11ac160-VHT0	50	5250	MCS0	11.00	10.23
	802.11ax160-HE0	50	5250	MCS0	11.50	11.02

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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	19.50	18.64
		56	5280		19.50	18.82
		60	5300		19.00	18.48
		64	5320		19.50	18.77
	802.11n20-HT0	52	5260	MCS0	20.00	19.10
		56	5280		20.00	19.10
		60	5300		19.50	18.96
		64	5320		19.00	18.64
	802.11ac20-VHT0	52	5260	MCS0	20.00	19.05
		56	5280		20.00	19.10
		60	5300		19.50	19.07
		64	5320		19.00	18.56
	802.11ax20-HE0	52	5260	MCS0	20.00	19.15
		56	5280		20.00	19.22
		60	5300		19.50	19.16
		64	5320		19.50	18.80
	802.11n40-HT0	54	5270	MCS0	20.50	20.05
		62	5310		16.00	15.78
	802.11ac40-VHT0	54	5270	MCS0	20.50	19.73
		62	5310		16.00	15.41
	802.11ax40-HE0	54	5270	MCS0	20.50	19.77
		62	5310		16.00	15.58
	802.11ac80-VHT0	58	5290	MCS0	15.00	14.43
	802.11ax80-HE0	58	5290	MCS0	15.00	14.47

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	19.50	18.83
		120	5600		19.50	18.68
		140	5700		19.50	18.61
		144	5720		17.50	16.86
	802.11n20-HT0	100	5500	MCS0	18.50	17.81
		120	5600		19.00	18.28
		140	5700		19.00	18.39
		144	5720		18.00	17.16
	802.11ac20-VHT0	100	5500	MCS0	18.50	17.67
		120	5600		19.00	18.25
		140	5700		19.00	18.22
		144	5720		18.00	17.08
	802.11ax20-HE0	100	5500	MCS0	18.50	17.71
		120	5600		19.00	18.38
		140	5700		19.00	18.33
		144	5720		18.00	17.32
	802.11n40-HT0	102	5510	MCS0	18.00	17.47
		118	5590		19.00	18.41
		134	5670		19.00	18.50
		142	5710		18.50	17.90
	802.11ac40-VHT0	102	5510	MCS0	18.00	17.46
		118	5590		19.00	18.48
		134	5670		19.00	18.33
		142	5710		18.50	17.77
	802.11ax40-HE0	102	5510	MCS0	18.50	17.64
		118	5590		19.00	18.43
		134	5670		19.00	18.46
		142	5710		19.00	18.40
	802.11ac80-VHT0	106	5530	MCS0	16.50	15.82
		122	5610		18.00	17.73
		138	5690		20.00	19.19
	802.11ax80-HE0	106	5530	MCS0	16.50	15.75
		122	5610		18.50	17.78
		138	5690		19.50	19.06
	802.11ac160-VHT0	114	5570	MCS0	13.50	12.91
	802.11ax160-HE0	114	5570	MCS0	13.50	13.13

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	19.85
		157	5785		21.00	19.67
		165	5825		21.00	19.81
	802.11n20-HT0	149	5745	MCS0	20.50	19.73
		157	5785		20.00	19.61
		165	5825		20.00	19.53
	802.11ac20-VHT0	149	5745	MCS0	20.50	19.82
		157	5785		20.00	19.51
		165	5825		20.00	19.56
	802.11ax20-HE0	149	5745	MCS0	20.50	19.79
		157	5785		20.00	19.62
		165	5825		20.00	19.64
	802.11n40-HT0	151	5755	MCS0	20.00	19.51
		159	5795		20.00	19.68
	802.11ac40-VHT0	151	5755	MCS0	20.00	19.47
		159	5795		20.00	19.57
	802.11ax40-HE0	151	5755	MCS0	20.00	19.54
		159	5795		20.00	19.70
	802.11ac80-VHT0	155	5775	MCS0	19.00	18.71
	802.11ax80-HE0	155	5775	MCS0	19.00	18.58

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Ant Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	14.00	13.46
		173	5865		14.00	13.20
		177	5885		13.50	13.21
	802.11n20-HT0	169	5845	MCS0	14.50	14.21
		173	5865		14.50	14.20
		177	5885		14.50	14.17
	802.11ac20-VHT0	169	5845	MCS0	14.50	14.18
		173	5865		14.50	14.13
		177	5885		14.50	14.14
	802.11ax20-HE0	169	5845	MCS0	15.00	14.41
		173	5865		15.00	14.29
		177	5885		15.00	14.24
	802.11n40-HT0	167	5835	MCS0	17.00	16.36
		175	5875		17.00	16.39
	802.11ac40-VHT0	167	5835	MCS0	17.00	16.41
		175	5875		17.00	16.36
	802.11ax40-HE0	167	5835	MCS0	17.00	16.61
		175	5875		17.00	16.66
	802.11ac80-VHT0	171	5855	MCS0	19.00	18.73
	802.11ax80-HE0	171	5855	MCS0	19.00	18.72
	802.11ac160-VHT0	163	5815	MCS0	16.00	15.59
	802.11ax160-HE0	163	5815	MCS0	16.50	15.82

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Tablet mode

Ant 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	21.50	21.39
		6	2437		20.50	20.28
		11	2462		20.50	20.10
	802.11g	1	2412	6Mbps	17.50	17.18
		6	2437		21.00	20.55
		11	2462		17.50	17.20
	802.11n20-HT0	1	2412	MCS0	17.50	17.10
		6	2437		20.50	19.97
		11	2462		17.50	17.01
	802.11ac20-VHT0	1	2412	MCS0	17.50	17.22
		6	2437		20.50	20.01
		11	2462		17.50	16.91
	802.11ax20-HE0	1	2412	MCS0	18.00	17.51
		6	2437		20.50	20.05
		11	2462		17.50	17.38
	802.11n40-HT0	3	2422	MCS0	16.00	15.79
		6	2437		17.50	17.25
		9	2452		16.50	15.85
	802.11ac40-VHT0	3	2422	MCS0	16.00	15.68
		6	2437		17.50	17.24
		9	2452		16.50	15.88
	802.11ax40-HE0	3	2422	MCS0	16.50	15.84
		6	2437		18.00	17.30
		9	2452		16.50	15.93

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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	18.00	17.82
		40	5200		18.00	17.85
		44	5220		18.00	17.83
		48	5240		18.00	17.93
	802.11n20-HT0	36	5180	MCS0	18.00	17.88
		40	5200		18.00	17.86
		44	5220		18.00	17.83
		48	5240		18.00	17.88
	802.11ac20-VHT0	36	5180	MCS0	18.00	17.88
		40	5200		18.00	17.96
		44	5220		18.00	17.95
		48	5240		18.00	17.96
	802.11ax20-HE0	36	5180	MCS0	18.00	17.88
		40	5200		18.00	17.83
		44	5220		18.00	17.88
		48	5240		18.00	17.81
	802.11n40-HT0	38	5190	MCS0	17.50	16.73
		46	5230		18.00	17.99
	802.11ac40-VHT0	38	5190	MCS0	17.50	16.75
		46	5230		18.00	17.92
	802.11ax40-HE0	38	5190	MCS0	17.50	16.80
		46	5230		18.00	17.81
	802.11ac80-VHT0	42	5210	MCS0	13.50	12.74
	802.11ax80-HE0	42	5210	MCS0	13.50	12.96
	802.11ac160-VHT0	50	5250	MCS0	12.00	11.23
	802.11ax160-HE0	50	5250	MCS0	11.50	11.03

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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	18.00	17.46
		56	5280		18.00	17.56
		60	5300		18.00	17.48
		64	5320		18.00	17.59
	802.11n20-HT0	52	5260	MCS0	18.00	17.63
		56	5280		18.00	17.58
		60	5300		18.00	17.51
		64	5320		18.00	17.61
	802.11ac20-VHT0	52	5260	MCS0	18.00	17.56
		56	5280		18.00	17.63
		60	5300		18.00	17.64
		64	5320		18.00	17.50
	802.11ax20-HE0	52	5260	MCS0	18.00	17.60
		56	5280		18.00	17.56
		60	5300		18.00	17.51
		64	5320		18.00	17.52
	802.11n40-HT0	54	5270	MCS0	18.00	17.65
		62	5310		16.00	15.45
	802.11ac40-VHT0	54	5270	MCS0	18.00	17.51
		62	5310		16.00	15.46
	802.11ax40-HE0	54	5270	MCS0	18.00	17.45
		62	5310		16.00	15.57
	802.11ac80-VHT0	58	5290	MCS0	15.00	14.31
	802.11ax80-HE0	58	5290	MCS0	15.00	14.26

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5.6GHz	802.11a	100	5500	6Mbps	18.00	17.75
		120	5600		18.00	17.72
		140	5700		18.00	17.80
		144	5720		17.50	16.64
	802.11n20-HT0	100	5500	MCS0	18.00	17.49
		120	5600		18.00	17.85
		140	5700		18.00	17.80
		144	5720		17.50	17.01
	802.11ac20-VHT0	100	5500	MCS0	18.00	17.60
		120	5600		18.00	17.76
		140	5700		18.00	17.83
		144	5720		17.50	17.04
	802.11ax20-HE0	100	5500	MCS0	18.00	17.82
		120	5600		18.00	17.86
		140	5700		18.00	17.71
		144	5720		18.00	17.38
	802.11n40-HT0	102	5510	MCS0	18.00	17.41
		118	5590		18.00	17.83
		134	5670		18.00	17.75
		142	5710		18.00	17.74
	802.11ac40-VHT0	102	5510	MCS0	18.00	17.39
		118	5590		18.00	17.74
		134	5670		18.00	17.79
		142	5710		18.00	17.69
	802.11ax40-HE0	102	5510	MCS0	18.00	17.49
		118	5590		18.00	17.85
		134	5670		18.00	17.84
		142	5710		18.00	17.86
	802.11ac80-VHT0	106	5530	MCS0	16.00	15.65
		122	5610		18.00	17.73
		138	5690		18.00	17.99
	802.11ax80-HE0	106	5530	MCS0	16.00	15.45
		122	5610		18.00	17.83
		138	5690		18.00	17.85
	802.11ac160-VHT0	114	5570	MCS0	13.50	12.80
	802.11ax160-HE0	114	5570	MCS0	13.50	12.94

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	20.00	19.91
		157	5785		20.00	19.77
		165	5825		20.00	19.94
	802.11n20-HT0	149	5745	MCS0	20.00	19.85
		157	5785		20.00	19.82
		165	5825		20.00	19.70
	802.11ac20-VHT0	149	5745	MCS0	20.00	19.88
		157	5785		20.00	19.88
		165	5825		20.00	19.78
	802.11ax20-HE0	149	5745	MCS0	20.00	19.86
		157	5785		20.00	19.75
		165	5825		20.00	19.75
	802.11n40-HT0	151	5755	MCS0	20.00	19.44
		159	5795		20.00	19.63
	802.11ac40-VHT0	151	5755	MCS0	20.00	19.60
		159	5795		20.00	19.52
	802.11ax40-HE0	151	5755	MCS0	20.00	19.61
		159	5795		20.00	19.63
	802.11ac80-VHT0	155	5775	MCS0	19.00	18.30
	802.11ax80-HE0	155	5775	MCS0	19.00	18.56

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	14.00	13.44
		173	5865		13.50	13.34
		177	5885		14.00	13.27
	802.11n20-HT0	169	5845	MCS0	15.00	14.31
		173	5865		14.50	14.26
		177	5885		14.50	14.24
	802.11ac20-VHT0	169	5845	MCS0	15.00	14.48
		173	5865		14.50	14.25
		177	5885		14.50	14.23
	802.11ax20-HE0	169	5845	MCS0	15.00	14.60
		173	5865		15.00	14.48
		177	5885		15.00	14.38
	802.11n40-HT0	167	5835	MCS0	17.00	16.60
		175	5875		17.00	16.49
	802.11ac40-VHT0	167	5835	MCS0	17.00	16.50
		175	5875		17.00	16.62
	802.11ax40-HE0	167	5835	MCS0	17.00	16.82
		175	5875		17.00	16.79
	802.11ac80-VHT0	171	5855	MCS0	19.00	18.70
	802.11ax80-HE0	171	5855	MCS0	19.00	18.73
	802.11ac160-VHT0	163	5815	MCS0	16.00	15.58
	802.11ax160-HE0	163	5815	MCS0	16.50	15.85

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	21.00	20.88
		6	2437		21.00	20.32
		11	2462		20.50	19.75
	802.11g	1	2412	6Mbps	17.50	17.32
		6	2437		21.00	20.48
		11	2462		18.50	17.35
	802.11n20-HT0	1	2412	MCS0	18.00	17.16
		6	2437		20.50	19.93
		11	2462		18.50	17.01
	802.11ac20-VHT0	1	2412	MCS0	18.00	17.29
		6	2437		20.50	20.00
		11	2462		18.50	16.97
	802.11ax20-HE0	1	2412	MCS0	18.00	17.33
		6	2437		21.00	20.02
		11	2462		18.50	17.20
	802.11n40-HT0	3	2422	MCS0	16.00	15.69
		6	2437		17.50	17.18
		9	2452		16.50	15.90
	802.11ac40-VHT0	3	2422	MCS0	16.00	15.68
		6	2437		17.50	17.23
		9	2452		16.50	15.77
	802.11ax40-HE0	3	2422	MCS0	16.50	15.87
		6	2437		18.00	17.34
		9	2452		16.50	15.94

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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	18.00	17.88
		40	5200		18.00	17.78
		44	5220		18.00	17.89
		48	5240		18.00	17.94
	802.11n20-HT0	36	5180	MCS0	18.00	17.90
		40	5200		18.00	17.85
		44	5220		18.00	17.83
		48	5240		18.00	17.89
	802.11ac20-VHT0	36	5180	MCS0	18.00	17.95
		40	5200		18.00	17.82
		44	5220		18.00	17.96
		48	5240		18.00	17.84
	802.11ax20-HE0	36	5180	MCS0	18.00	17.90
		40	5200		18.00	17.87
		44	5220		18.00	17.98
		48	5240		18.00	17.84
	802.11n40-HT0	38	5190	MCS0	17.50	17.11
		46	5230		18.00	17.99
	802.11ac40-VHT0	38	5190	MCS0	17.50	16.74
		46	5230		18.00	17.85
	802.11ax40-HE0	38	5190	MCS0	17.50	16.77
		46	5230		18.00	17.84
	802.11ac80-VHT0	42	5210	MCS0	13.50	12.85
	802.11ax80-HE0	42	5210	MCS0	13.50	13.10
	802.11ac160-VHT0	50	5250	MCS0	11.00	10.23
	802.11ax160-HE0	50	5250	MCS0	11.50	11.02

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5.25-5.35 GHz	802.11a	52	5260	6Mbps	18.00	17.61
		56	5280		18.00	17.51
		60	5300		18.00	17.70
		64	5320		18.00	17.59
	802.11n20-HT0	52	5260	MCS0	18.00	17.69
		56	5280		18.00	17.68
		60	5300		18.00	17.56
		64	5320		18.00	17.65
	802.11ac20-VHT0	52	5260	MCS0	18.00	17.63
		56	5280		18.00	17.52
		60	5300		18.00	17.57
		64	5320		18.00	17.58
	802.11ax20-HE0	52	5260	MCS0	18.00	17.62
		56	5280		18.00	17.68
		60	5300		18.00	17.60
		64	5320		18.00	17.69
	802.11n40-HT0	54	5270	MCS0	18.00	17.99
		62	5310		16.00	15.78
	802.11ac40-VHT0	54	5270	MCS0	18.00	17.59
		62	5310		16.00	15.41
	802.11ax40-HE0	54	5270	MCS0	18.00	17.56
		62	5310		16.00	15.58
	802.11ac80-VHT0	58	5290	MCS0	15.00	14.43
	802.11ax80-HE0	58	5290	MCS0	15.00	14.47

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5.6GHz	802.11a	100	5500	6Mbps	18.00	17.81
		120	5600		18.00	17.79
		140	5700		18.00	17.85
		144	5720		17.50	16.86
	802.11n20-HT0	100	5500	MCS0	18.00	17.86
		120	5600		18.00	17.71
		140	5700		18.00	17.72
		144	5720		18.00	17.16
	802.11ac20-VHT0	100	5500	MCS0	18.00	17.79
		120	5600		18.00	17.73
		140	5700		18.00	17.80
		144	5720		18.00	17.08
	802.11ax20-HE0	100	5500	MCS0	18.00	17.84
		120	5600		18.00	17.83
		140	5700		18.00	17.75
		144	5720		18.00	17.32
	802.11n40-HT0	102	5510	MCS0	18.00	17.47
		118	5590		18.00	17.80
		134	5670		18.00	17.85
		142	5710		18.00	17.79
	802.11ac40-VHT0	102	5510	MCS0	18.00	17.46
		118	5590		18.00	17.70
		134	5670		18.00	17.83
		142	5710		18.00	17.81
	802.11ax40-HE0	102	5510	MCS0	18.00	17.69
		118	5590		18.00	17.70
		134	5670		18.00	17.77
		142	5710		18.00	17.72
	802.11ac80-VHT0	106	5530	MCS0	16.50	15.82
		122	5610		18.00	17.73
		138	5690		18.00	17.98
	802.11ax80-HE0	106	5530	MCS0	16.50	15.75
		122	5610		18.00	17.72
		138	5690		18.00	17.81
	802.11ac160-VHT0	114	5570	MCS0	13.50	12.91
	802.11ax160-HE0	114	5570	MCS0	13.50	13.13

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5.8GHz	802.11a	149	5745	6Mbps	20.00	19.85
		157	5785		20.00	19.67
		165	5825		20.00	19.81
	802.11n20-HT0	149	5745	MCS0	20.00	19.73
		157	5785		20.00	19.61
		165	5825		20.00	19.53
	802.11ac20-VHT0	149	5745	MCS0	20.00	19.82
		157	5785		20.00	19.51
		165	5825		20.00	19.56
	802.11ax20-HE0	149	5745	MCS0	20.00	19.79
		157	5785		20.00	19.62
		165	5825		20.00	19.64
	802.11n40-HT0	151	5755	MCS0	20.00	19.51
		159	5795		20.00	19.68
	802.11ac40-VHT0	151	5755	MCS0	20.00	19.47
		159	5795		20.00	19.57
	802.11ax40-HE0	151	5755	MCS0	20.00	19.54
		159	5795		20.00	19.70
	802.11ac80-VHT0	155	5775	MCS0	19.00	18.71
	802.11ax80-HE0	155	5775	MCS0	19.00	18.58

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Ant Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	14.00	13.46
		173	5865		14.00	13.20
		177	5885		13.50	13.21
	802.11n20-HT0	169	5845	MCS0	14.50	14.21
		173	5865		14.50	14.20
		177	5885		14.50	14.17
	802.11ac20-VHT0	169	5845	MCS0	14.50	14.18
		173	5865		14.50	14.13
		177	5885		14.50	14.14
	802.11ax20-HE0	169	5845	MCS0	15.00	14.41
		173	5865		15.00	14.29
		177	5885		15.00	14.24
	802.11n40-HT0	167	5835	MCS0	17.00	16.36
		175	5875		17.00	16.39
	802.11ac40-VHT0	167	5835	MCS0	17.00	16.41
		175	5875		17.00	16.36
	802.11ax40-HE0	167	5835	MCS0	17.00	16.61
		175	5875		17.00	16.66
	802.11ac80-VHT0	171	5855	MCS0	19.00	18.73
	802.11ax80-HE0	171	5855	MCS0	19.00	18.72
	802.11ac160-VHT0	163	5815	MCS0	16.00	15.59
	802.11ax160-HE0	163	5815	MCS0	16.50	15.82

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7.2 WLAN 6GHz

Notebook mode

Ant Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11a	1	5955	6Mbps	19.00	18.44
		45	6175		19.50	18.63
		93	6415		19.50	18.68
	802.11ax20-HE0	1	5955	MCS0	19.00	18.29
		45	6175		19.00	18.14
		93	6415		19.50	18.60
	802.11ax40-HE0	3	5965	MCS0	21.50	20.66
		43	6165		22.00	21.33
		91	6405		22.00	21.33
	802.11ax80-HE0	7	5985	MCS0	20.50	19.80
		39	6145		22.00	21.41
		87	6385		22.00	21.39
	802.11ax160-HE0	15	6025	MCS0	20.00	19.78
		47	6185		22.00	21.42
		79	6345		20.00	19.71
Ant Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11a	97	6435	6Mbps	1.50	0.86
		105	6475		1.50	1.09
		113	6515		2.00	1.33
	802.11ax20-HE0	97	6435	MCS0	2.00	1.35
		105	6475		2.50	1.67
		113	6515		1.50	1.19
	802.11ax40-HE0	99	6445	MCS0	5.00	4.49
		107	6485		5.00	4.29
	802.11ax80-HE0	103	6465	MCS0	7.50	7.08
		119	6545		8.00	7.23
	802.11ax160-HE0	111	6505	MCS0	10.00	9.44

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Ant Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11a	117	6535	6Mbps	19.00	18.49
		149	6695		19.00	18.45
		181	6855		19.00	18.55
	802.11ax20-HE0	117	6535	MCS0	19.00	18.52
		149	6695		19.00	18.57
		181	6855		19.00	18.51
	802.11ax40-HE0	115	6525	MCS0	22.00	21.42
		147	6685		22.00	21.50
		179	6845		22.00	21.55
	802.11ax80-HE0	135	6625	MCS0	22.50	22.49
		151	6705		22.50	22.48
		167	6785		22.50	22.36
	802.11ax160-HE0	143	6665	MCS0	20.00	19.39
		175	6825		20.00	19.52
Ant Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11a	185	6875	6Mbps	2.00	1.04
		209	6995		2.00	1.13
		233	7115		1.50	0.58
	802.11ax20-HE0	185	6875	MCS0	2.00	1.32
		209	6995		2.00	1.41
		233	7115		1.50	1.05
	802.11ax40-HE0	187	6885	MCS0	4.50	3.87
		227	7085		5.00	4.48
	802.11ax80-HE0	183	6865	MCS0	8.00	7.42
		199	6945		8.00	7.44
		215	7025		8.00	7.62
	802.11ax160-HE0	207	6985	MCS0	10.00	9.53

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Ant Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11a	1	5955	6Mbps	19.00	18.60
		45	6175		19.50	18.85
		93	6415		19.50	19.00
	802.11ax20-HE0	1	5955	MCS0	19.50	19.05
		45	6175		19.50	19.12
		93	6415		19.50	19.02
	802.11ax40-HE0	3	5965	MCS0	22.00	21.20
		43	6165		22.00	21.72
		91	6405		22.50	21.79
	802.11ax80-HE0	7	5985	MCS0	20.50	19.99
		39	6145		22.50	21.90
		87	6385		22.50	21.83
	802.11ax160-HE0	15	6025	MCS0	20.50	19.69
		47	6185		22.50	21.83
		79	6345		20.50	19.82
Ant Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11a	97	6435	6Mbps	1.50	1.01
		105	6475		1.50	1.03
		113	6515		1.00	0.72
	802.11ax20-HE0	97	6435	MCS0	2.00	1.25
		105	6475		1.50	1.24
		113	6515		2.50	1.80
	802.11ax40-HE0	99	6445	MCS0	4.50	3.95
		107	6485		4.50	3.98
	802.11ax80-HE0	103	6465	MCS0	7.00	6.77
		119	6545		7.00	6.74
	802.11ax160-HE0	111	6505	MCS0	9.50	8.72

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Ant Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11a	117	6535	6Mbps	19.50	18.86
		149	6695		19.50	18.96
		181	6855		19.50	18.94
	802.11ax20-HE0	117	6535	MCS0	20.00	19.22
		149	6695		20.00	19.19
		181	6855		19.50	19.12
	802.11ax40-HE0	115	6525	MCS0	22.00	21.75
		147	6685		22.00	21.75
		179	6845		22.00	21.78
	802.11ax80-HE0	135	6625	MCS0	22.50	22.20
		151	6705		22.50	22.05
		167	6785		22.50	22.01
	802.11ax160-HE0	143	6665	MCS0	20.00	19.79
		175	6825		20.00	19.67
Ant Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11a	185	6875	6Mbps	1.50	1.03
		209	6995		1.50	0.97
		233	7115		1.50	0.76
	802.11ax20-HE0	185	6875	MCS0	2.00	1.77
		209	6995		2.50	2.05
		233	7115		2.50	2.10
	802.11ax40-HE0	187	6885	MCS0	4.50	3.76
		227	7085		5.00	4.43
	802.11ax80-HE0	183	6865	MCS0	7.50	7.08
		199	6945		7.50	7.04
		215	7025		7.50	7.12
	802.11ax160-HE0	207	6985	MCS0	9.50	8.91

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Ant Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11a	1	5955	6Mbps	14.50	14.00
		45	6175		14.50	13.89
		93	6415		14.50	13.99
	802.11ax20-HE0	1	5955	MCS0	14.50	13.85
		45	6175		14.50	13.89
		93	6415		14.50	13.99
	802.11ax40-HE0	3	5965	MCS0	14.50	13.86
		43	6165		14.50	13.80
		91	6405		14.50	13.81
	802.11ax80-HE0	7	5985	MCS0	14.50	13.84
		39	6145		14.50	13.98
		87	6385		14.50	13.90
	802.11ax160-HE0	15	6025	MCS0	14.50	14.33
		47	6185		14.50	14.41
		79	6345		14.50	14.12
Ant Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11a	97	6435	6Mbps	1.50	0.86
		105	6475		1.50	1.09
		113	6515		2.00	1.33
	802.11ax20-HE0	97	6435	MCS0	2.00	1.35
		105	6475		2.50	1.67
		113	6515		1.50	1.19
	802.11ax40-HE0	99	6445	MCS0	5.00	4.49
		107	6485		5.00	4.29
	802.11ax80-HE0	103	6465	MCS0	7.50	7.08
		119	6545		8.00	7.23
	802.11ax160-HE0	111	6505	MCS0	10.00	9.44

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Ant Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11a	117	6535	6Mbps	14.50	13.93
		149	6695		14.50	13.89
		181	6855		14.50	13.90
	802.11ax20-HE0	117	6535	MCS0	14.50	13.85
		149	6695		14.50	13.88
		181	6855		14.50	13.82
	802.11ax40-HE0	115	6525	MCS0	14.50	13.83
		147	6685		14.50	13.85
		179	6845		14.50	13.95
	802.11ax80-HE0	135	6625	MCS0	14.50	14.44
		151	6705		14.50	14.12
		167	6785		14.50	14.46
	802.11ax160-HE0	143	6665	MCS0	14.00	13.95
		175	6825		14.00	13.97
Ant Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11a	185	6875	6Mbps	2.00	1.04
		209	6995		2.00	1.13
		233	7115		1.50	0.58
	802.11ax20-HE0	185	6875	MCS0	2.00	1.32
		209	6995		2.00	1.41
		233	7115		1.50	1.05
	802.11ax40-HE0	187	6885	MCS0	4.50	3.87
		227	7085		5.00	4.48
	802.11ax80-HE0	183	6865	MCS0	8.00	7.42
		199	6945		8.00	7.44
		215	7025		8.00	7.62
	802.11ax160-HE0	207	6985	MCS0	10.00	9.53

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Ant Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11a	1	5955	6Mbps	16.00	15.39
		45	6175		16.00	15.32
		93	6415		16.00	15.21
	802.11ax20-HE0	1	5955	MCS0	16.00	15.37
		45	6175		16.00	15.21
		93	6415		16.00	15.33
	802.11ax40-HE0	3	5965	MCS0	16.00	15.24
		43	6165		16.00	15.33
		91	6405		16.00	15.39
	802.11ax80-HE0	7	5985	MCS0	16.00	15.25
		39	6145		16.00	15.26
		87	6385		16.00	15.28
	802.11ax160-HE0	15	6025	MCS0	16.00	15.88
		47	6185		16.00	15.61
		79	6345		16.00	15.82
Ant Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11a	97	6435	6Mbps	1.50	1.01
		105	6475		1.50	1.03
		113	6515		1.00	0.72
	802.11ax20-HE0	97	6435	MCS0	2.00	1.25
		105	6475		1.50	1.24
		113	6515		2.50	1.80
	802.11ax40-HE0	99	6445	MCS0	4.50	3.95
		107	6485		4.50	3.98
	802.11ax80-HE0	103	6465	MCS0	7.00	6.77
		119	6545		7.00	6.74
	802.11ax160-HE0	111	6505	MCS0	9.50	8.72

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Ant Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11a	117	6535	6Mbps	16.00	15.25
		149	6695		16.00	15.29
		181	6855		16.00	15.29
	802.11ax20-HE0	117	6535	MCS0	16.00	15.24
		149	6695		16.00	15.34
		181	6855		16.00	15.34
	802.11ax40-HE0	115	6525	MCS0	16.00	15.26
		147	6685		16.00	15.25
		179	6845		16.00	15.28
	802.11ax80-HE0	135	6625	MCS0	16.00	15.60
		151	6705		16.00	15.79
		167	6785		16.00	15.63
	802.11ax160-HE0	143	6665	MCS0	15.50	15.23
		175	6825		15.50	15.28
Ant Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11a	185	6875	6Mbps	1.50	1.03
		209	6995		1.50	0.97
		233	7115		1.50	0.76
	802.11ax20-HE0	185	6875	MCS0	2.00	1.77
		209	6995		2.50	2.05
		233	7115		2.50	2.10
	802.11ax40-HE0	187	6885	MCS0	4.50	3.76
		227	7085		5.00	4.43
	802.11ax80-HE0	183	6865	MCS0	7.50	7.08
		199	6945		7.50	7.04
		215	7025		7.50	7.12
	802.11ax160-HE0	207	6985	MCS0	9.50	8.91

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7.3 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	10.50	10.49	8.00	7.72	8.00	7.74
	CH 39	2441		10.31		7.68		7.64
	CH 78	2480		10.34		7.71		7.52

7.4 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	11	10.73
	CH 19	2440		10.68
	CH 39	2480		10.51
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	11	10.65
	CH 19	2440		10.59
	CH 39	2480		10.57

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8 SUMMARY OF RESULTS

8.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

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

8.2 Summary of SAR Results

Notebook mode

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Ant Main	Bottom Surface	0	1	2412	21.50	21.39	1.01	102.57%	0.008	0.008	001
WLAN 802.11b	Ant Main	Bottom Surface	0	6	2437	20.50	20.28	1.01	105.20%	0.004	0.004	-
WLAN 802.11b	Ant Main	Bottom Surface	0	11	2462	20.50	20.10	1.01	109.65%	0.003	0.003	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.2G	Ant Main	Bottom Surface	0	38	5190	17.50	17.11	1.07	109.40%	0.012	0.014	-
WLAN 802.11n(40M) 5.2G	Ant Main	Bottom Surface	0	46	5230	20.00	19.32	1.07	116.95%	0.021	0.026	002
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.3G	Ant Main	Bottom Surface	0	54	5270	20.00	19.35	1.07	116.14%	0.027	0.033	003
WLAN 802.11n(40M) 5.3G	Ant Main	Bottom Surface	0	62	5310	16.00	15.45	1.07	113.50%	0.012	0.015	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Ant Main	Bottom Surface	0	106	5530	16.00	15.65	1.12	108.39%	0.013	0.016	-
WLAN 802.11ac(80M) 5.6G	Ant Main	Bottom Surface	0	122	5610	18.00	17.73	1.12	106.41%	0.021	0.025	-
WLAN 802.11ac(80M) 5.6G	Ant Main	Bottom Surface	0	138	5690	20.00	19.03	1.12	125.03%	0.028	0.039	004
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.8G	Ant Main	Bottom Surface	0	149	5745	21.00	19.91	1.03	128.53%	0.035	0.047	-
WLAN 802.11a 5.8G	Ant Main	Bottom Surface	0	157	5785	21.00	19.77	1.03	132.74%	0.038	0.052	005
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.9G	Ant Main	Bottom Surface	0	171	5855	19.00	18.70	1.12	107.15%	0.035	0.042	006
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Ant Aux	Bottom Surface	0	1	2412	21.00	20.88	1.01	102.80%	0.006	0.006	007
WLAN 802.11b	Ant Aux	Bottom Surface	0	6	2437	21.00	20.32	1.01	116.95%	0.005	0.006	-
WLAN 802.11b	Ant Aux	Bottom Surface	0	11	2462	20.50	19.75	1.01	118.85%	0.004	0.005	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	Ant Aux	Bottom Surface	0	00	2402	10.50	10.49	1.42	100.23%	0.002	0.003	008
Bluetooth(GFSK)	Ant Aux	Bottom Surface	0	39	2441	10.50	10.31	1.42	104.47%	0.000	0.000	-
Bluetooth(GFSK)	Ant Aux	Bottom Surface	0	78	2480	10.50	10.34	1.42	103.75%	0.000	0.000	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.2G	Ant Aux	Bottom Surface	0	38	5190	17.50	17.11	1.07	109.40%	0.029	0.034	-
WLAN 802.11n(40M) 5.2G	Ant Aux	Bottom Surface	0	46	5230	20.00	19.67	1.07	107.89%	0.050	0.058	009
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.3G	Ant Aux	Bottom Surface	0	54	5270	20.50	20.05	1.07	110.92%	0.042	0.050	010
WLAN 802.11n(40M) 5.3G	Ant Aux	Bottom Surface	0	62	5310	16.00	15.78	1.07	105.20%	0.019	0.021	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Ant Aux	Bottom Surface	0	106	5530	16.50	15.82	1.12	116.95%	0.009	0.012	-
WLAN 802.11ac(80M) 5.6G	Ant Aux	Bottom Surface	0	122	5610	18.00	17.73	1.12	106.41%	0.014	0.017	-
WLAN 802.11ac(80M) 5.6G	Ant Aux	Bottom Surface	0	138	5690	20.00	19.19	1.12	120.50%	0.017	0.023	011

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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.8G	Ant Aux	Bottom Surface	0	149	5745	21.00	19.85	1.03	130.32%	0.028	0.038	-
WLAN 802.11a 5.8G	Ant Aux	Bottom Surface	0	157	5785	21.00	19.67	1.03	135.83%	0.031	0.044	012
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.9G	Ant Aux	Bottom Surface	0	171	5855	19.00	18.73	1.12	106.41%	0.035	0.042	013

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Ant Main	Bottom Surface	0	15	6025	20.00	19.78	1.17	105.20%	0.042	0.052	0.368	0.454	-
U-NII-5 6.2GHz 802.11ax(160M)	Ant Main	Bottom Surface	0	47	6185	22.00	21.42	1.17	114.29%	0.068	0.091	0.596	0.799	014
U-NII-5 6.2GHz 802.11ax(160M)	Ant Main	Bottom Surface	0	79	6345	20.00	19.71	1.17	106.91%	0.044	0.055	0.385	0.483	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Ant Main	Bottom Surface	0	111	6505	10.00	9.44	1.17	113.76%	0.001	0.001	0.021	0.028	015
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(80M)	Ant Main	Bottom Surface	0	135	6625	22.50	22.49	1.11	100.23%	0.074	0.082	0.654	0.729	016
U-NII-7 6.7GHz 802.11ax(80M)	Ant Main	Bottom Surface	0	151	6705	22.50	22.48	1.11	100.46%	0.070	0.078	0.627	0.700	-
U-NII-7 6.7GHz 802.11ax(80M)	Ant Main	Bottom Surface	0	167	6785	22.50	22.36	1.11	103.28%	0.064	0.073	0.565	0.649	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Ant Main	Bottom Surface	0	207	6985	10.00	9.53	1.17	111.43%	0.001	0.001	0.022	0.029	017
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Ant Aux	Bottom Surface	0	15	6025	20.50	19.69	1.17	120.50%	0.045	0.064	0.395	0.558	-
U-NII-5 6.2GHz 802.11ax(160M)	Ant Aux	Bottom Surface	0	47	6185	22.50	21.83	1.17	116.68%	0.071	0.097	0.624	0.854	018
U-NII-5 6.2GHz 802.11ax(160M)	Ant Aux	Bottom Surface	0	79	6345	20.50	19.82	1.17	116.95%	0.044	0.060	0.386	0.530	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Ant Aux	Bottom Surface	0	111	6505	9.50	8.72	1.17	119.67%	0.001	0.001	0.02	0.028	019
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(80M)	Ant Aux	Bottom Surface	0	135	6625	22.50	22.20	1.11	107.15%	0.071	0.085	0.612	0.729	020
U-NII-7 6.7GHz 802.11ax(80M)	Ant Aux	Bottom Surface	0	151	6705	22.50	22.05	1.11	110.92%	0.064	0.079	0.586	0.723	-
U-NII-7 6.7GHz 802.11ax(80M)	Ant Aux	Bottom Surface	0	167	6785	22.50	22.01	1.11	111.94%	0.061	0.076	0.525	0.654	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Ant Aux	Bottom Surface	0	207	6985	9.50	8.91	1.17	114.55%	0.001	0.001	0.02	0.027	021

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Tablet mode

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Ant Main	Back Surface	0	1	2412	21.50	21.39	1.01	102.57%	0.368	0.380	-
WLAN 802.11b	Ant Main	Top Edge	0	1	2412	21.50	21.39	1.01	102.57%	1.160	1.197	022
WLAN 802.11b	Ant Main	Top Edge	0	6	2437	20.50	20.28	1.01	105.20%	0.905	0.958	-
WLAN 802.11b	Ant Main	Top Edge	0	11	2462	20.50	20.10	1.01	109.65%	0.863	0.952	-
WLAN 802.11b	Ant Main	Right Edge	0	1	2412	21.50	21.39	1.01	102.57%	0.076	0.078	-
WLAN 802.11b	Ant Main	Left Edge	0	1	2412	21.50	21.39	1.01	102.57%	0.059	0.061	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.2G	Ant Main	Back Surface	0	46	5230	18.00	17.99	1.07	100.23%	0.495	0.529	-
WLAN 802.11n(40M) 5.2G	Ant Main	Top Edge	0	38	5190	17.50	17.11	1.07	109.40%	1.010	1.178	-
WLAN 802.11n(40M) 5.2G	Ant Main	Top Edge	0	46	5230	18.00	17.99	1.07	100.23%	1.120	1.197	023
WLAN 802.11n(40M) 5.2G	Ant Main	Right Edge	0	46	5230	18.00	17.99	1.07	100.23%	0.253	0.270	-
WLAN 802.11n(40M) 5.2G	Ant Main	Left Edge	0	46	5230	18.00	17.99	1.07	100.23%	0.042	0.045	-
WLAN 802.11n(40M) 5.2G	Ant Main	Top Edge*	0	46	5230	18.00	17.99	1.07	100.23%	1.090	1.165	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.3G	Ant Main	Back Surface	0	54	5270	18.00	17.65	1.07	108.39%	0.421	0.486	-
WLAN 802.11n(40M) 5.3G	Ant Main	Top Edge	0	54	5270	18.00	17.65	1.07	108.39%	1.000	1.155	024
WLAN 802.11n(40M) 5.3G	Ant Main	Top Edge	0	62	5310	16.00	15.45	1.07	113.50%	0.753	0.911	-
WLAN 802.11n(40M) 5.3G	Ant Main	Right Edge	0	54	5270	18.00	17.65	1.07	108.39%	0.211	0.244	-
WLAN 802.11n(40M) 5.3G	Ant Main	Left Edge	0	54	5270	18.00	17.65	1.07	108.39%	0.038	0.044	-
WLAN 802.11n(40M) 5.3G	Ant Main	Top Edge*	0	54	5270	18.00	17.65	1.07	108.39%	0.939	1.085	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Ant Main	Back Surface	0	138	5690	18.00	17.99	1.12	100.23%	0.306	0.343	-
WLAN 802.11ac(80M) 5.6G	Ant Main	Top Edge	0	106	5530	16.00	15.65	1.12	108.39%	0.517	0.627	-
WLAN 802.11ac(80M) 5.6G	Ant Main	Top Edge	0	122	5610	18.00	17.73	1.12	106.41%	0.622	0.740	-
WLAN 802.11ac(80M) 5.6G	Ant Main	Top Edge	0	138	5690	18.00	17.99	1.12	100.23%	0.724	0.811	025
WLAN 802.11ac(80M) 5.6G	Ant Main	Right Edge	0	138	5690	18.00	17.99	1.12	100.23%	0.156	0.175	-
WLAN 802.11ac(80M) 5.6G	Ant Main	Left Edge	0	138	5690	18.00	17.99	1.12	100.23%	0.025	0.028	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.8G	Ant Main	Back Surface	0	159	5795	20.00	19.63	1.07	108.89%	0.345	0.400	-
WLAN 802.11n(40M) 5.8G	Ant Main	Top Edge	0	151	5755	20.00	19.44	1.07	113.76%	0.722	0.876	-
WLAN 802.11n(40M) 5.8G	Ant Main	Top Edge	0	159	5795	20.00	19.63	1.07	108.89%	0.816	0.947	026
WLAN 802.11n(40M) 5.8G	Ant Main	Right Edge	0	159	5795	20.00	19.63	1.07	108.89%	0.176	0.204	-
WLAN 802.11n(40M) 5.8G	Ant Main	Left Edge	0	159	5795	20.00	19.63	1.07	108.89%	0.029	0.034	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.9G	Ant Main	Back Surface	0	171	5855	19.00	18.70	1.12	107.15%	0.305	0.365	-
WLAN 802.11ac(80M) 5.9G	Ant Main	Top Edge	0	171	5855	19.00	18.70	1.12	107.15%	0.723	0.866	027
WLAN 802.11ac(80M) 5.9G	Ant Main	Right Edge	0	171	5855	19.00	18.70	1.12	107.15%	0.156	0.187	-
WLAN 802.11ac(80M) 5.9G	Ant Main	Left Edge	0	171	5855	19.00	18.70	1.12	107.15%	0.025	0.030	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Ant Aux	Back Surface	0	1	2412	21.00	20.88	1.01	102.80%	0.385	0.398	-
WLAN 802.11b	Ant Aux	Top Edge	0	1	2412	21.00	20.88	1.01	102.80%	0.857	0.886	028
WLAN 802.11b	Ant Aux	Top Edge	0	6	2437	21.00	20.32	1.01	116.95%	0.670	0.788	-
WLAN 802.11b	Ant Aux	Top Edge	0	11	2462	20.50	19.75	1.01	118.85%	0.562	0.672	-
WLAN 802.11b	Ant Aux	Right Edge	0	1	2412	21.00	20.88	1.01	102.80%	0.001	0.001	-
WLAN 802.11b	Ant Aux	Left Edge	0	1	2412	21.00	20.88	1.01	102.80%	0.268	0.277	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	Ant Aux	Back Surface	0	00	2402	10.50	10.49	1.42	100.23%	0.001	0.001	-
Bluetooth(GFSK)	Ant Aux	Top Edge	0	00	2402	10.50	10.49	1.42	100.23%	0.040	0.057	029
Bluetooth(GFSK)	Ant Aux	Top Edge	0	39	2441	10.50	10.31	1.42	104.47%	0.028	0.042	-
Bluetooth(GFSK)	Ant Aux	Top Edge	0	78	2480	10.50	10.34	1.42	103.75%	0.021	0.031	-
Bluetooth(GFSK)	Ant Aux	Right Edge	0	00	2402	10.50	10.49	1.42	100.23%	0.001	0.001	-
Bluetooth(GFSK)	Ant Aux	Left Edge	0	00	2402	10.50	10.49	1.42	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.2G	Ant Aux	Back Surface	0	46	5230	18.00	17.99	1.07	100.23%	0.395	0.422	-
WLAN 802.11n(40M) 5.2G	Ant Aux	Top Edge	0	38	5190	17.50	17.11	1.07	109.40%	0.787	0.918	-
WLAN 802.11n(40M) 5.2G	Ant Aux	Top Edge	0	46	5230	18.00	17.99	1.07	100.23%	0.891	0.952	030
WLAN 802.11n(40M) 5.2G	Ant Aux	Right Edge	0	46	5230	18.00	17.99	1.07	100.23%	0.001	0.001	-
WLAN 802.11n(40M) 5.2G	Ant Aux	Left Edge	0	46	5230	18.00	17.99	1.07	100.23%	0.472	0.504	-

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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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.3G	Ant Aux	Back Surface	0	54	5270	18.00	17.99	1.07	100.23%	0.381	0.407	-
WLAN 802.11n(40M) 5.3G	Ant Aux	Top Edge	0	54	5270	18.00	17.99	1.07	100.23%	0.860	0.919	031
WLAN 802.11n(40M) 5.3G	Ant Aux	Top Edge	0	62	5310	16.00	15.78	1.07	105.20%	0.585	0.656	-
WLAN 802.11n(40M) 5.3G	Ant Aux	Right Edge	0	54	5270	18.00	17.99	1.07	100.23%	0.001	0.001	-
WLAN 802.11n(40M) 5.3G	Ant Aux	Left Edge	0	54	5270	18.00	17.99	1.07	100.23%	0.455	0.486	-
WLAN 802.11n(40M) 5.3G	Ant Aux	Top Edge*	0	54	5270	18.00	17.99	1.07	100.23%	0.851	0.909	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Ant Aux	Back Surface	0	138	5690	18.00	17.98	1.12	100.46%	0.364	0.409	-
WLAN 802.11ac(80M) 5.6G	Ant Aux	Top Edge	0	106	5530	16.50	15.82	1.12	116.95%	0.571	0.747	-
WLAN 802.11ac(80M) 5.6G	Ant Aux	Top Edge	0	122	5610	18.00	17.73	1.12	106.41%	0.784	0.933	-
WLAN 802.11ac(80M) 5.6G	Ant Aux	Top Edge	0	138	5690	18.00	17.98	1.12	100.46%	0.822	0.923	032
WLAN 802.11ac(80M) 5.6G	Ant Aux	Right Edge	0	138	5690	18.00	17.98	1.12	100.46%	0.001	0.001	-
WLAN 802.11ac(80M) 5.6G	Ant Aux	Left Edge	0	138	5690	18.00	17.98	1.12	100.46%	0.435	0.489	-
WLAN 802.11ac(80M) 5.6G	Ant Aux	Top Edge*	0	138	5690	18.00	17.98	1.12	100.46%	0.810	0.910	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.8G	Ant Aux	Back Surface	0	159	5795	20.00	19.68	1.07	107.65%	0.452	0.519	-
WLAN 802.11n(40M) 5.8G	Ant Aux	Top Edge	0	151	5755	20.00	19.51	1.07	111.94%	0.914	1.091	-
WLAN 802.11n(40M) 5.8G	Ant Aux	Top Edge	0	159	5795	20.00	19.68	1.07	107.65%	1.020	1.170	033
WLAN 802.11n(40M) 5.8G	Ant Aux	Right Edge	0	159	5795	20.00	19.68	1.07	107.65%	0.001	0.001	-
WLAN 802.11n(40M) 5.8G	Ant Aux	Left Edge	0	159	5795	20.00	19.68	1.07	107.65%	0.540	0.620	-
WLAN 802.11n(40M) 5.8G	Ant Aux	Top Edge*	0	159	5795	20.00	19.68	1.07	107.65%	0.973	1.117	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.9G	Ant Aux	Back Surface	0	171	5855	19.00	18.73	1.12	106.41%	0.440	0.523	-
WLAN 802.11ac(80M) 5.9G	Ant Aux	Top Edge	0	171	5855	19.00	18.73	1.12	106.41%	0.993	1.181	034
WLAN 802.11ac(80M) 5.9G	Ant Aux	Right Edge	0	171	5855	19.00	18.73	1.12	106.41%	0.001	0.001	-
WLAN 802.11ac(80M) 5.9G	Ant Aux	Left Edge	0	171	5855	19.00	18.73	1.12	106.41%	0.526	0.626	-
WLAN 802.11ac(80M) 5.9G	Ant Aux	Top Edge*	0	171	5855	19.00	18.73	1.12	106.41%	0.947	1.127	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Ant Main	Back Surface	0	47	6185	14.50	14.41	1.17	102.09%	0.136	0.163	1.03	1.233	-
U-NII-5 6.2GHz 802.11ax(160M)	Ant Main	Top Edge	0	15	6025	14.50	14.33	1.17	103.99%	0.418	0.510	3.18	3.879	-
U-NII-5 6.2GHz 802.11ax(160M)	Ant Main	Top Edge	0	47	6185	14.50	14.41	1.17	102.09%	0.432	0.517	3.35	4.012	035
U-NII-5 6.2GHz 802.11ax(160M)	Ant Main	Top Edge	0	79	6345	14.50	14.12	1.17	109.14%	0.401	0.513	3.06	3.918	-
U-NII-5 6.2GHz 802.11ax(160M)	Ant Main	Right Edge	0	47	6185	14.50	14.41	1.17	102.09%	0.028	0.034	0.213	0.255	-
U-NII-5 6.2GHz 802.11ax(160M)	Ant Main	Left Edge	0	47	6185	14.50	14.41	1.17	102.09%	0.021	0.025	0.16	0.192	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Ant Main	Back Surface	0	111	6505	10.00	9.44	1.17	113.76%	0.032	0.043	0.244	0.326	-
U-NII-6 6.5GHz 802.11ax(160M)	Ant Main	Top Edge	0	111	6505	10.00	9.44	1.17	113.76%	0.104	0.139	0.714	0.953	036
U-NII-6 6.5GHz 802.11ax(160M)	Ant Main	Right Edge	0	111	6505	10.00	9.44	1.17	113.76%	0.006	0.008	0.045	0.060	-
U-NII-6 6.5GHz 802.11ax(160M)	Ant Main	Left Edge	0	111	6505	10.00	9.44	1.17	113.76%	0.005	0.007	0.038	0.051	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(80M)	Ant Main	Back Surface	0	167	6785	14.50	14.46	1.11	100.93%	0.108	0.121	0.824	0.925	-
U-NII-7 6.7GHz 802.11ax(80M)	Ant Main	Top Edge	0	135	6625	14.50	14.44	1.11	101.39%	0.101	0.114	0.77	0.868	-
U-NII-7 6.7GHz 802.11ax(80M)	Ant Main	Top Edge	0	151	6705	14.50	14.12	1.11	109.14%	0.099	0.120	0.755	0.916	-
U-NII-7 6.7GHz 802.11ax(80M)	Ant Main	Top Edge	0	167	6785	14.50	14.46	1.11	100.93%	0.341	0.383	2.42	2.716	037
U-NII-7 6.7GHz 802.11ax(80M)	Ant Main	Right Edge	0	167	6785	14.50	14.46	1.11	100.93%	0.022	0.025	0.167	0.187	-
U-NII-7 6.7GHz 802.11ax(80M)	Ant Main	Left Edge	0	167	6785	14.50	14.46	1.11	100.93%	0.017	0.019	0.129	0.145	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Ant Main	Back Surface	0	207	6985	10.00	9.53	1.17	111.43%	0.025	0.033	0.19	0.248	-
U-NII-8 7.0GHz 802.11ax(160M)	Ant Main	Top Edge	0	207	6985	10.00	9.53	1.17	111.43%	0.080	0.105	0.635	0.830	038
U-NII-8 7.0GHz 802.11ax(160M)	Ant Main	Right Edge	0	207	6985	10.00	9.53	1.17	111.43%	0.005	0.007	0.038	0.050	-
U-NII-8 7.0GHz 802.11ax(160M)	Ant Main	Left Edge	0	207	6985	10.00	9.53	1.17	111.43%	0.004	0.005	0.3	0.392	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Ant Aux	Back Surface	0	15	6025	16.00	15.88	1.17	102.80%	0.173	0.209	1.32	1.592	-
U-NII-5 6.2GHz 802.11ax(160M)	Ant Aux	Top Edge	0	15	6025	16.00	15.88	1.17	102.80%	0.391	0.471	3.37	4.064	039
U-NII-5 6.2GHz 802.11ax(160M)	Ant Aux	Top Edge	0	47	6185	16.00	15.61	1.17	109.40%	0.329	0.422	2.51	3.221	-
U-NII-5 6.2GHz 802.11ax(160M)	Ant Aux	Top Edge	0	79	6345	16.00	15.82	1.17	104.23%	0.374	0.457	2.85	3.485	-
U-NII-5 6.2GHz 802.11ax(160M)	Ant Aux	Right Edge	0	15	6025	16.00	15.88	1.17	102.80%	0.001	0.001	0.022	0.027	-
U-NII-5 6.2GHz 802.11ax(160M)	Ant Aux	Left Edge	0	15	6025	16.00	15.88	1.17	102.80%	0.221	0.266	1.68	2.026	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Ant Aux	Back Surface	0	111	6505	9.50	8.72	1.17	119.67%	0.030	0.042	0.228	0.320	-
U-NII-6 6.5GHz 802.11ax(160M)	Ant Aux	Top Edge	0	111	6505	9.50	8.72	1.17	119.67%	0.069	0.097	0.548	0.769	040
U-NII-6 6.5GHz 802.11ax(160M)	Ant Aux	Right Edge	0	111	6505	9.50	8.72	1.17	119.67%	0.001	0.001	0.021	0.029	-
U-NII-6 6.5GHz 802.11ax(160M)	Ant Aux	Left Edge	0	111	6505	9.50	8.72	1.17	119.67%	0.035	0.049	0.267	0.375	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(80M)	Ant Aux	Back Surface	0	151	6705	16.00	15.79	1.11	104.95%	0.152	0.177	1.15	1.342	-
U-NII-7 6.7GHz 802.11ax(80M)	Ant Aux	Top Edge	0	135	6625	16.00	15.60	1.11	109.65%	0.311	0.379	2.37	2.890	-
U-NII-7 6.7GHz 802.11ax(80M)	Ant Aux	Top Edge	0	151	6705	16.00	15.79	1.11	104.95%	0.345	0.403	2.87	3.350	041
U-NII-7 6.7GHz 802.11ax(80M)	Ant Aux	Top Edge	0	167	6785	16.00	15.63	1.11	108.89%	0.313	0.379	2.38	2.882	-
U-NII-7 6.7GHz 802.11ax(80M)	Ant Aux	Right Edge	0	151	6705	16.00	15.79	1.11	104.95%	0.001	0.001	0.019	0.022	-
U-NII-7 6.7GHz 802.11ax(80M)	Ant Aux	Left Edge	0	151	6705	16.00	15.79	1.11	104.95%	0.182	0.212	1.38	1.611	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Ant Aux	Back Surface	0	207	6985	9.50	8.91	1.17	114.55%	0.021	0.028	0.16	0.215	-
U-NII-8 7.0GHz 802.11ax(160M)	Ant Aux	Top Edge	0	207	6985	9.50	8.91	1.17	114.55%	0.048	0.064	0.358	0.481	042
U-NII-8 7.0GHz 802.11ax(160M)	Ant Aux	Right Edge	0	207	6985	9.50	8.91	1.17	114.55%	0.001	0.001	0.017	0.023	-
U-NII-8 7.0GHz 802.11ax(160M)	Ant Aux	Left Edge	0	207	6985	9.50	8.91	1.17	114.55%	0.025	0.034	0.19	0.255	-

Note: * - 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

8.3 Summary of PD Results

Band	Antenna	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	Ant Main	Top Edge	2	47	6185	14.50	14.41	102.09%	1.17	1.55	5.190	9.634	4.670	8.669	043
Band	Antenna	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	Ant Aux	Top Edge	2	47	6185	16.00	15.61	109.40%	1.17	1.55	4.980	9.905	4.580	9.110	044

Note:

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

8.4 Reporting statements of conformity

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

8.5 Conclusion

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

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9 SIMULTANEOUS TRANSMISSION ANALYSIS

9.1 Simultaneous Transmission Scenarios:

Simultaneous Transmission configurations
WLAN 2.4GHz Main + BT Aux
WLAN 2.4GHz Main + WLAN 2.4GHz Aux
WLAN 5GHz Main + BT Aux
WLAN 5GHz Main + WLAN 5GHz Aux
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux
WLAN 6GHz Main + BT Aux
WLAN 6GHz Main + WLAN 6GHz Aux
WLAN 6GHz Main + WLAN 6GHz Aux + BT Aux

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9.2 Estimated SAR calculation

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

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

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

9.3 SPLSR evaluation and analysis

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

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

The ratio is determined by $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 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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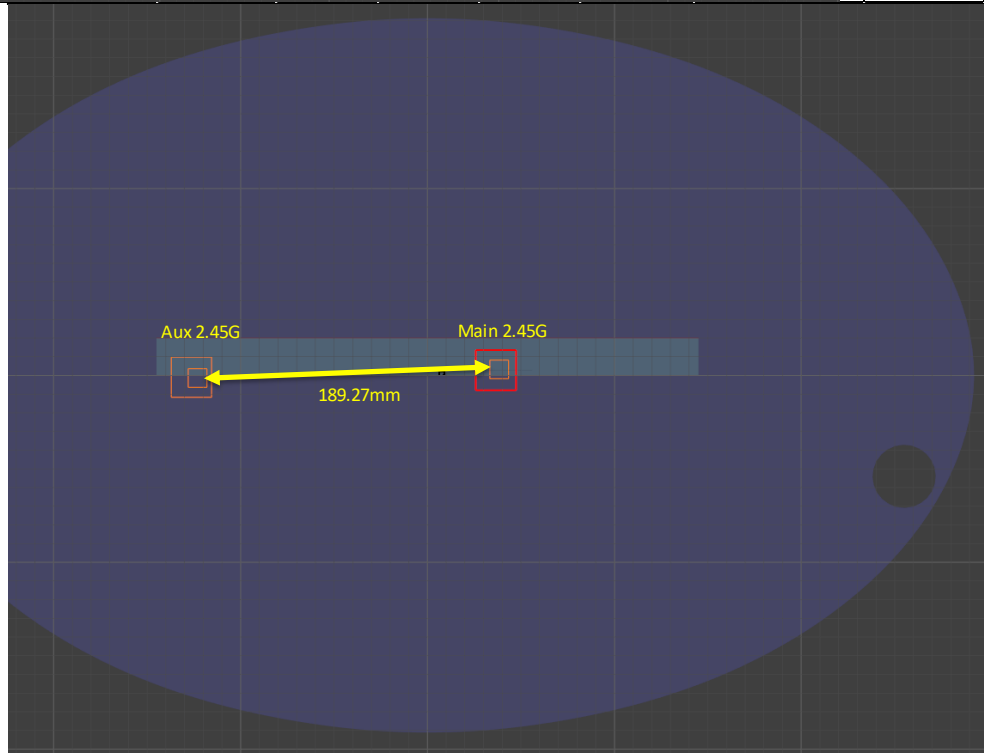
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Simultaneous Transmission Combination

Exposure Position	FCC Reported SAR										IC Only		Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
	2	3	4	5	7	8	9	10	11	10	11	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
	2.4GHz WLAN Ant Main	2.4GHz WLAN Ant Aux	5GHz WLAN Ant Main	5GHz WLAN Ant Aux	Bluetooth Ant Aux	5GHz WLAN Ant Main	5GHz WLAN Ant Aux	5GHz WLAN Ant Main	5GHz WLAN Ant Aux											
Bottom Surface	0	0.008	0.006	0.052	0.058	0.003	0.051	0.097	0.049	0.043	0.014	0.014	0.110	0.011	0.055	0.113	0.094	0.188	0.151	0.151
Back Surface	0	0.380	0.398	0.529	0.523	0.001	0.163	0.209	0.062	0.131	0.778	1.052	0.381	0.530	1.063	0.164	0.372	0.373	0.373	0.373
Top Edge	0	1.197	0.886	1.197	1.181	0.057	0.517	0.471	0.319	0.294	2.083	2.378	1.254	1.254	2.435	0.574	0.988	1.045	1.045	1.045
Right Edge	0	0.078	0.001	0.270	0.001	0.001	0.034	0.001	0.013	0.001	0.079	0.271	0.079	0.271	0.272	0.035	0.035	0.036	0.036	0.036
Left Edge	0	0.061	0.277	0.045	0.626	0.001	0.025	0.266	0.020	0.166	0.338	0.671	0.062	0.046	0.672	0.026	0.291	0.292	0.292	0.292

SPLSR

Scenario 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				
Top Edge	WLAN 2.4G Main	1.197	-0.28	4.98	-17.70	-	-	-	-
	WLAN 2.4G Aux	0.886	0.24	-13.94	-17.70	2.083	189.27	0.016	SPLSR $\leq$ 0.04, Not required

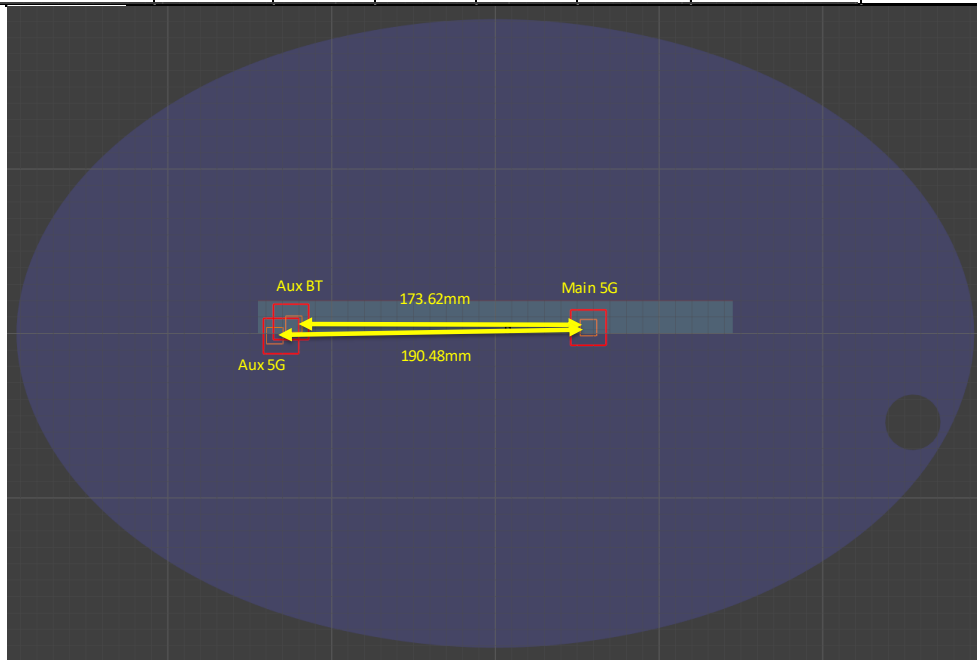


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Scenario 5									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	WLAN 5G Main	1.197	-0.24	5.64	-17.70	-	-	-	-
	WLAN 5G Aux	1.181	0.30	-13.40	-17.70	2.378	190.48	0.019	SPLSR $\leq$ 0.04, Not required
	BT Aux	0.057	-0.50	-11.72	-17.70	1.254	173.62	0.008	SPLSR $\leq$ 0.04, Not required
	WLAN5G + BT Aux	1.238	-0.50	-11.72	-17.70	2.435	173.62	0.022	SPLSR $\leq$ 0.04, Not required



9.4 Conclusion

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

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10 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1665	Mar/11/2025	Mar/10/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7642	Feb/19/2025	Feb/18/2026
SPEAG	E-field Probe for Near Field Application	EUmmWV3	9399	Jan/14/2025	Jan/13/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/19/2024	Mar/18/2027
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/12/2025	Aug/11/2026
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/12/2025	Aug/11/2026
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/16/2025	Jan/15/2026
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/17/2025	Feb/16/2026
Agilent	MXG Analog Signal Generator	N5181A	MY50145142	Dec/20/2024	Dec/19/2025
R&S	FSV Signal Analyzer	FSV3013	101742	May/19/2025	May/18/2026
Agilent	Dual-directional coupler	772D	MY46151258	Oct/08/2025	Oct/07/2026
Agilent	Dual-directional coupler	778D	MY46151242	Sep/09/2025	Sep/08/2026
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101973	Feb/21/2025	Feb/20/2026
R&S	Power Meter	NRX	102191	Feb/21/2025	Feb/20/2026
R&S	Power Sensor	NRP50S	101770	Jun/26/2025	Jun/25/2026
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 8 mmWave V3.0.0.841	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
LKM	Digital thermometer	DTM3000	3896	Dec/26/2024	Dec/25/2025
TECPEL	Digital thermometer	DTM-303A	TP130077	Oct/03/2025	Oct/02/2026

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11 UNCERTAINTY BUDGET

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.52%	N	1	1	0.64	0.43	0.97%	0.65%	M
Liquid Conductivity (mea.)	1.98%	N	1	1	0.6	0.49	1.19%	0.97%	M
Combined standard uncertainty		RSS					11.82%	11.76%	
Expan uncertainty (95% confidence interval), K=2							23.63%	23.53%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distribution	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy, Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Mechanical restrictions									
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.)	1.31%	N	1	1	0.64	0.43	0.84%	0.56%	M
Liquid Conductivity (mea.)	3.45%	N	1	1	0.6	0.49	2.07%	1.69%	M
Combined standard uncertainty		RSS					11.63%	11.55%	
Expanded uncertainty (95% confidence interval), K=2							23.27%	23.09%	

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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		R	√3	1.732	1	1	0.0	0.0
Combined Std. uncertainty							14.0	13.9
Expanded Std. uncertainty (95% confidence interval), K=2							28.0	27.8

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

a	b	c	d		e	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+dB)	Probability Distribution	Div.	Div. Value	ci	Std. uncertainty (+dB)	(vi) Veff
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 dependance	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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12 SAR MEASUREMENT RESULTS

ID: 001

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	2412.0, 1	7.6	1.828	39.779

Hardware Setup

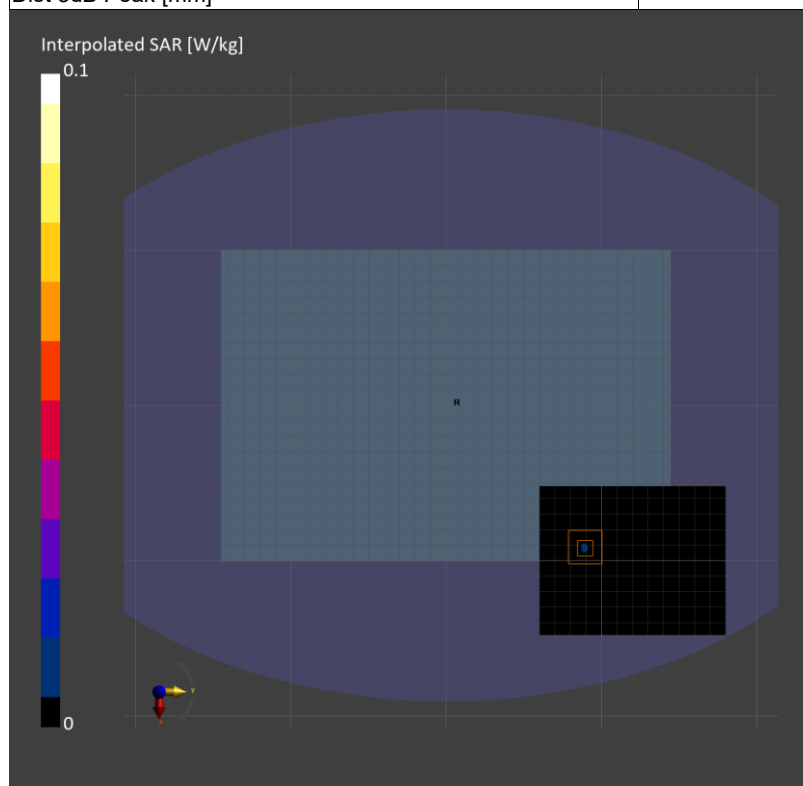
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-17	2025-11-17
psSAR1g [W/kg]	0.007	0.008
psSAR8g [W/kg]	0.003	0.003
psSAR10g [W/kg]	0.003	0.002
Power Drift [dB]	0.03	0.03
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		5.0



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ID: 002

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5230.0, 46	5.82	4.779	36.463

Hardware Setup

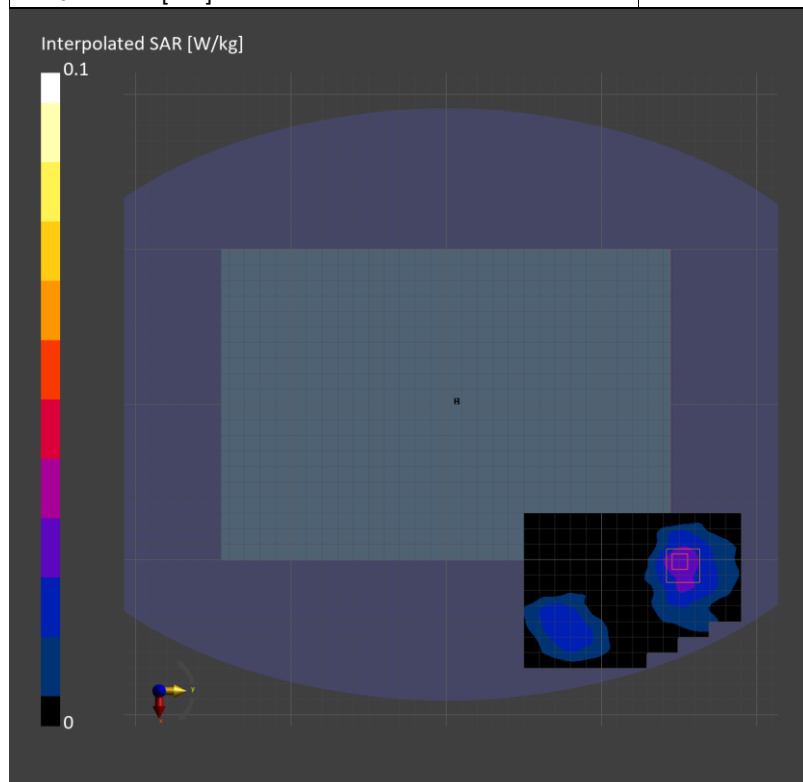
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-18	2025-11-18
psSAR1g [W/kg]	0.023	0.021
psSAR8g [W/kg]	0.011	0.009
psSAR10g [W/kg]	0.010	0.008
Power Drift [dB]	0.01	-0.01
M2/M1 [%]		60.5
Dist 3dB Peak [mm]		12.0



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ID: 003

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5270.0, 54	5.82	4.821	36.417

Hardware Setup

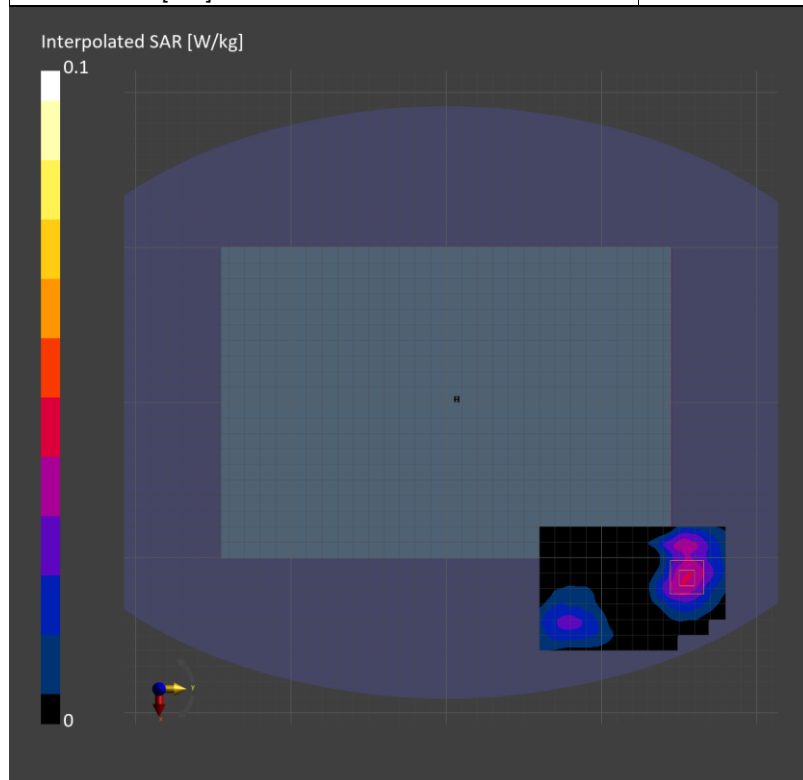
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-18	2025-11-18
psSAR1g [W/kg]	0.032	0.027
psSAR8g [W/kg]	0.015	0.012
psSAR10g [W/kg]	0.014	0.010
Power Drift [dB]	-0.04	0.06
M2/M1 [%]		58.6
Dist 3dB Peak [mm]		13.4



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ID: 004

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5690.0, 138	5.46	5.26	35.937

Hardware Setup

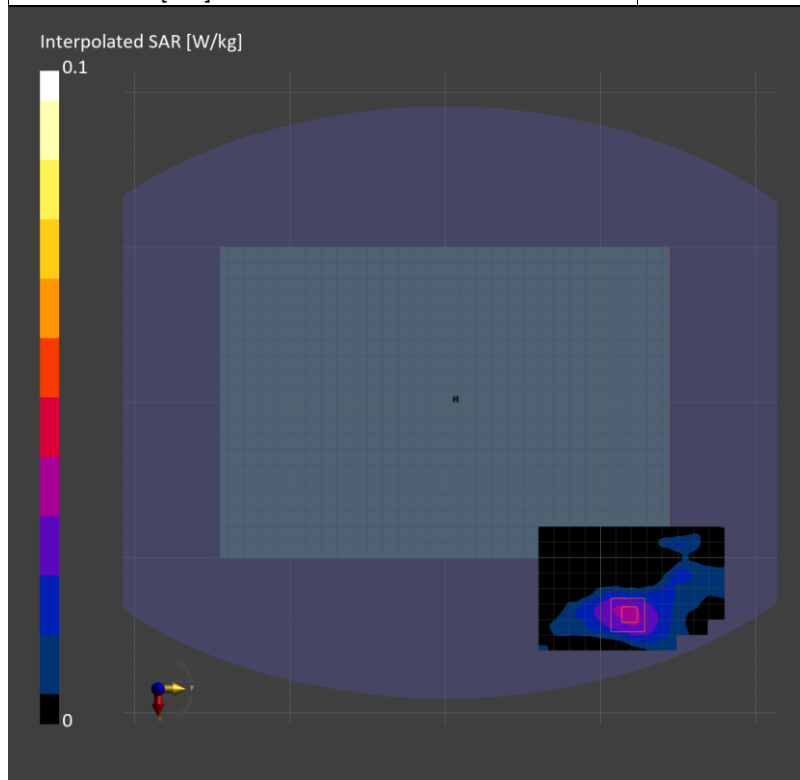
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.028	0.028
psSAR8g [W/kg]	0.013	0.011
psSAR10g [W/kg]	0.012	0.01
Power Drift [dB]	-0.03	-0.04
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		14.6



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ID: 005

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11a 5.8G_Body_Bottom Surface_CH 157_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5785.0, 157	5.46	5.359	35.829

Hardware Setup

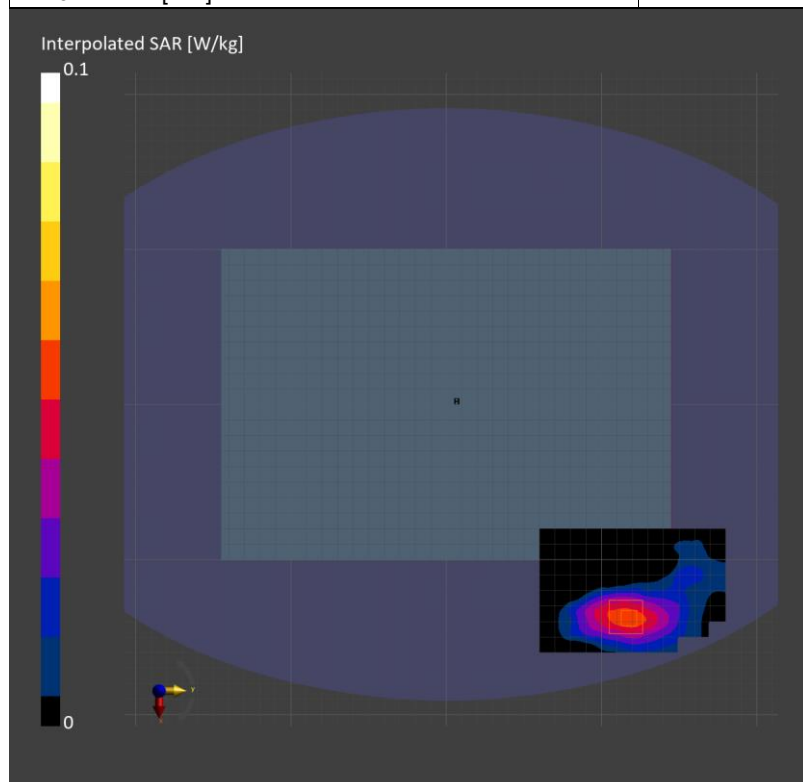
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.043	0.038
psSAR8g [W/kg]	0.020	0.017
psSAR10g [W/kg]	0.018	0.015
Power Drift [dB]	0.03	-0.02
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		14.5



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ID: 006

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11ac(80M) 5.9G_Body_Bottom Surface_CH 171_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5855.0, 171	5.49	5.432	35.749

Hardware Setup

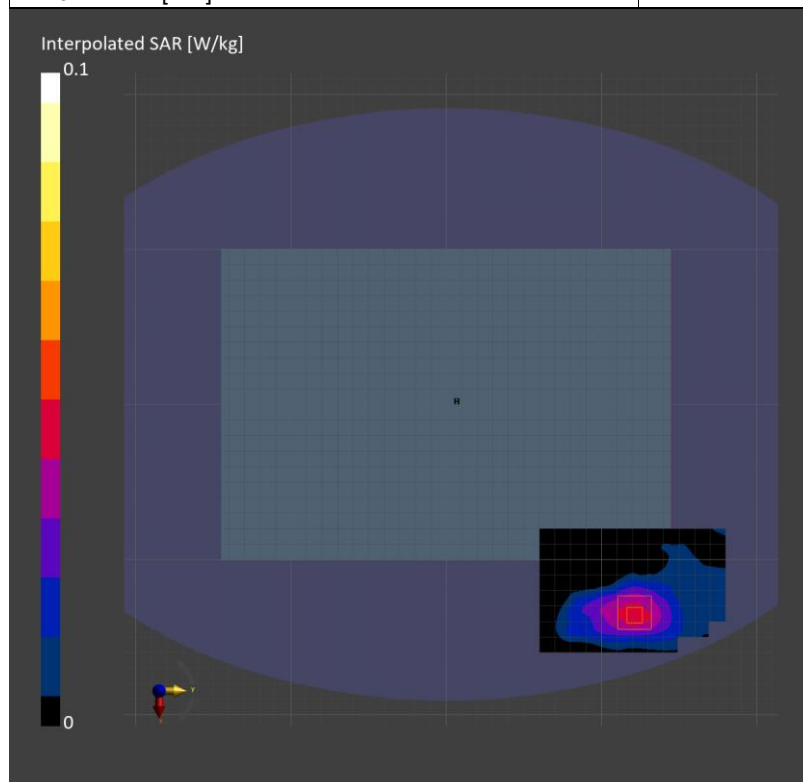
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.037	0.035
psSAR8g [W/kg]	0.017	0.015
psSAR10g [W/kg]	0.016	0.013
Power Drift [dB]	0.01	0.03
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		15.4



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ID: 007

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	2412.0, 1	7.6	1.828	39.779

Hardware Setup

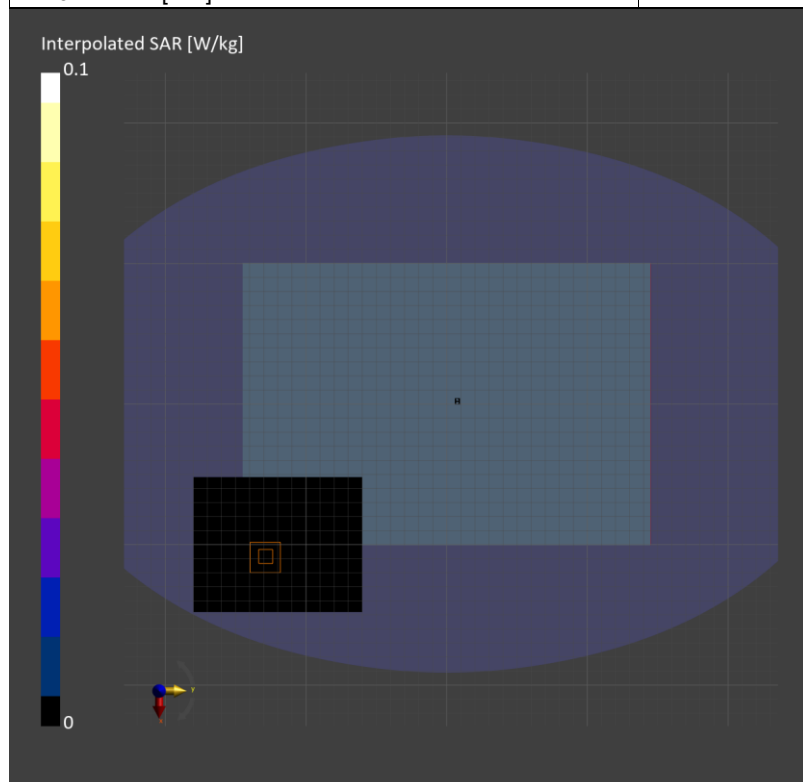
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-17	2025-11-17
psSAR1g [W/kg]	0.006	0.006
psSAR8g [W/kg]	0.003	0.003
psSAR10g [W/kg]	0.003	0.003
Power Drift [dB]	0.05	-0.06
M2/M1 [%]		63.3
Dist 3dB Peak [mm]		6.4



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ID: 008

Report No. :TESA2511000839E5

Measurement Report_Bluetooth(GFSK)_Body_Bottom Surface_CH 0_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	2402.0, 0	7.6	1.819	39.797

Hardware Setup

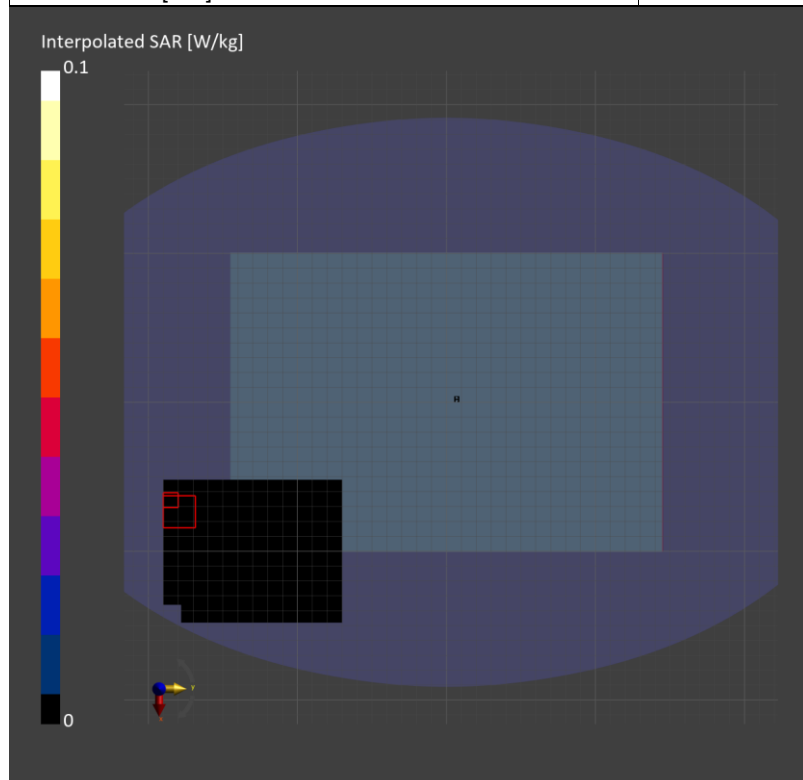
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-17	2025-11-17
psSAR1g [W/kg]	0.002	0.002
psSAR8g [W/kg]	0	0
psSAR10g [W/kg]	0	0
Power Drift [dB]	-0.01	0.02
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		6.0



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ID: 009

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Aux

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5230.0, 46	5.82	4.779	36.463

Hardware Setup

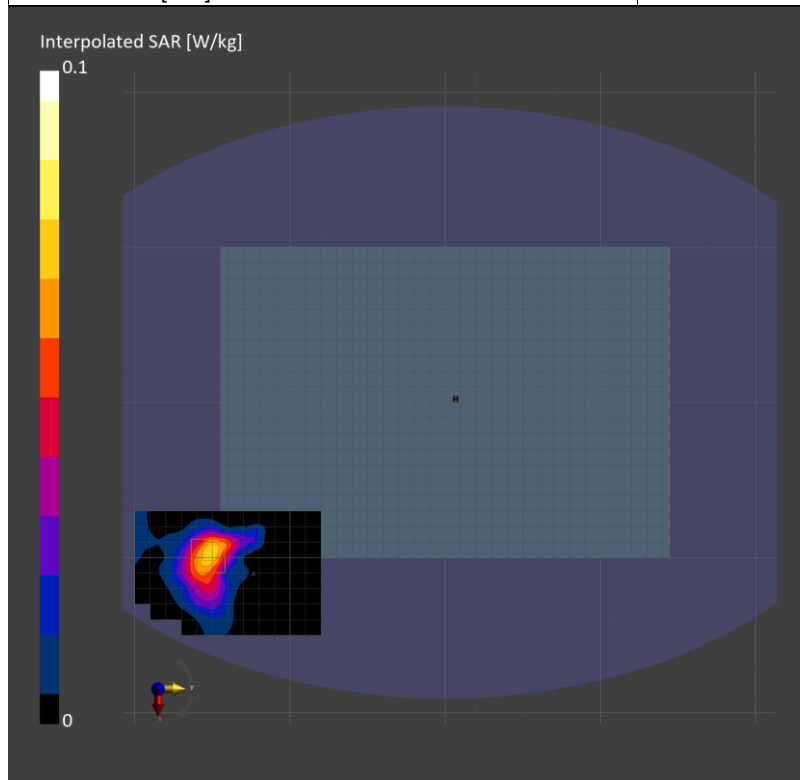
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-18	2025-11-18
psSAR1g [W/kg]	0.054	0.050
psSAR8g [W/kg]	0.025	0.021
psSAR10g [W/kg]	0.023	0.018
Power Drift [dB]	-0.05	0.02
M2/M1 [%]		57.3
Dist 3dB Peak [mm]		10.5



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ID: 010

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Aux

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5270.0, 54	5.82	4.821	36.417

Hardware Setup

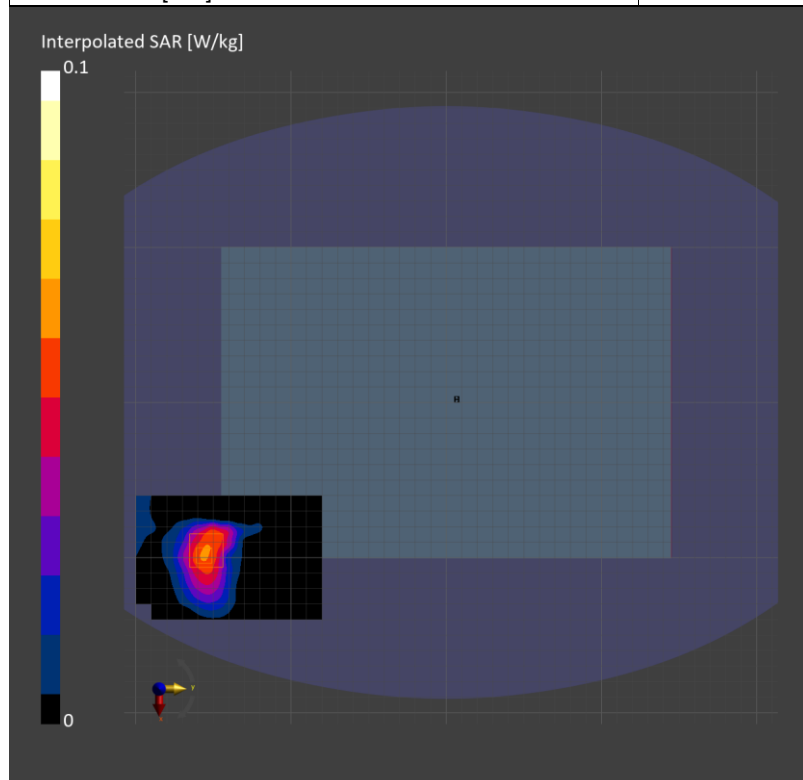
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-18	2025-11-18
psSAR1g [W/kg]	0.045	0.042
psSAR8g [W/kg]	0.021	0.018
psSAR10g [W/kg]	0.019	0.016
Power Drift [dB]	-0.01	0.05
M2/M1 [%]		54.9
Dist 3dB Peak [mm]		9.4



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ID: 011

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5690.0, 138	5.46	5.26	35.937

Hardware Setup

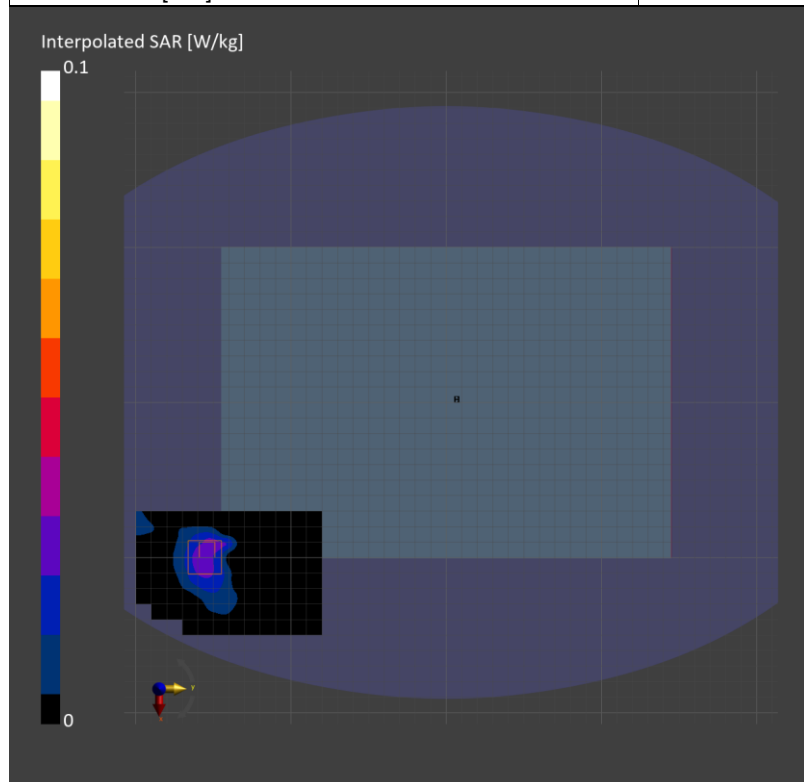
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.023	0.017
psSAR8g [W/kg]	0.011	0.006
psSAR10g [W/kg]	0.01	0.005
Power Drift [dB]	-0.05	0.01
M2/M1 [%]		53.1
Dist 3dB Peak [mm]		7.9



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ID: 012

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11a 5.8G_Body_Bottom Surface_CH 157_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5785.0, 157	5.46	5.359	35.829

Hardware Setup

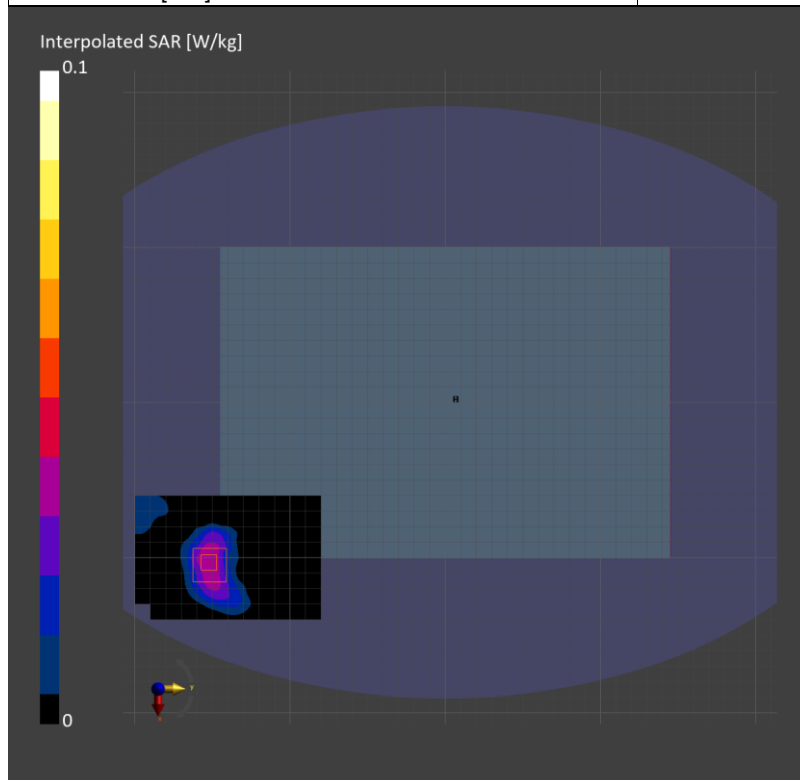
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.032	0.031
psSAR8g [W/kg]	0.014	0.011
psSAR10g [W/kg]	0.013	0.009
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		50.8
Dist 3dB Peak [mm]		7.9



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ID: 013

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11ac(80M) 5.9G_Body_Bottom Surface_CH 171_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	5855.0, 171	5.49	5.432	35.749

Hardware Setup

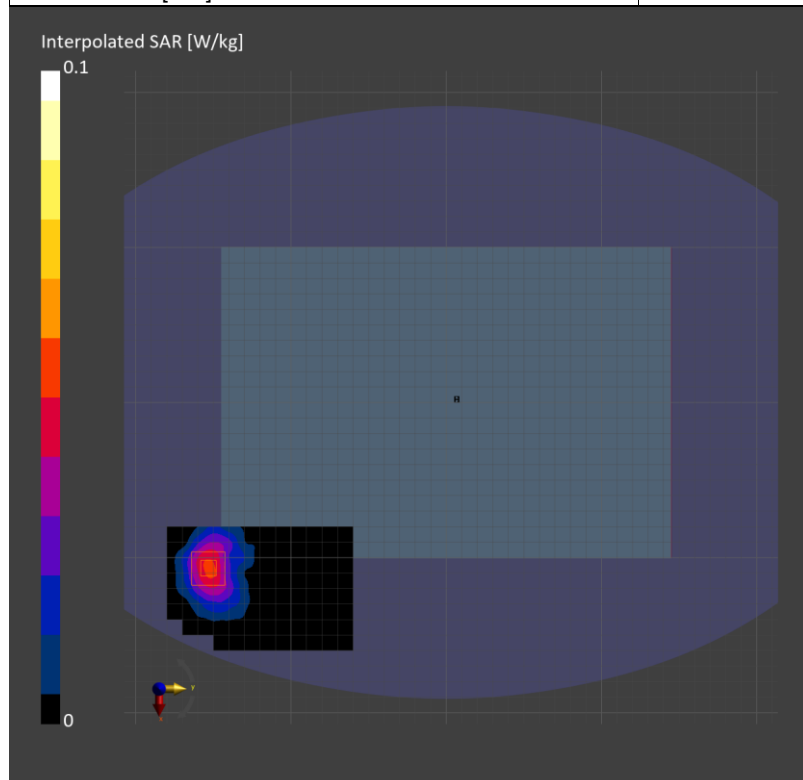
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.040	0.035
psSAR8g [W/kg]	0.018	0.014
psSAR10g [W/kg]	0.016	0.012
Power Drift [dB]	-0.06	0.01
M2/M1 [%]		51.3
Dist 3dB Peak [mm]		8.4



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ID: 014

Report No. :TESA2511000839E5

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 47_0mm_Main

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	6185.0, 47	5.66	5.78	35.361

Hardware Setup

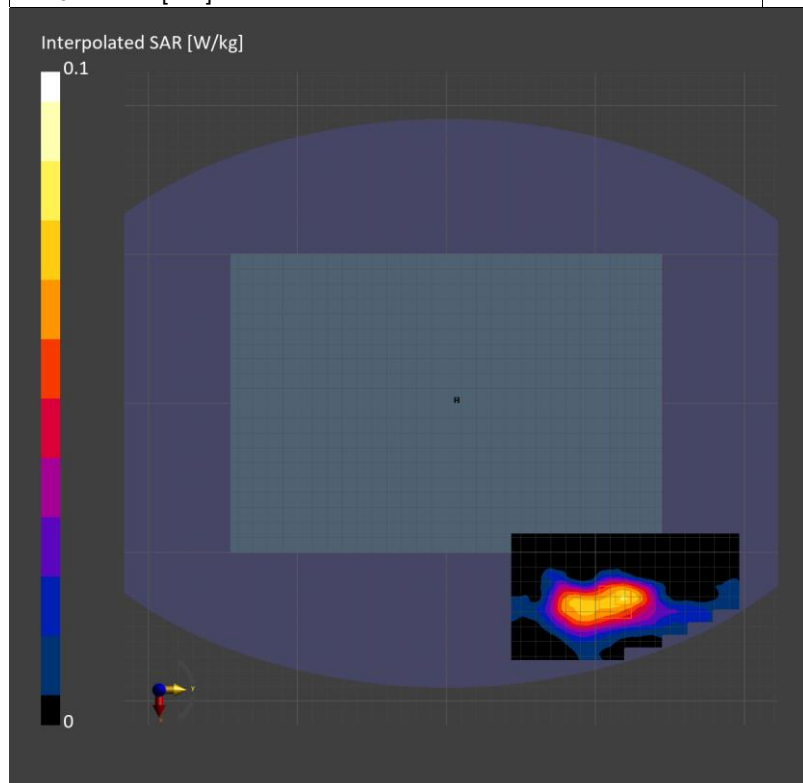
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 153.0	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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.058	0.068
psSAR8g [W/kg]	0.027	0.030
psSAR10g [W/kg]	0.025	0.027
psPDab (4.0cm2, sq) [W/m2]		0.596
Power Drift [dB]	0.03	-0.06
M2/M1 [%]		58.1
Dist 3dB Peak [mm]		13.3



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ID: 015

Report No. :TESA2511000839E5

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Main

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	6505.0, 111	5.66	6.122	34.977

Hardware Setup

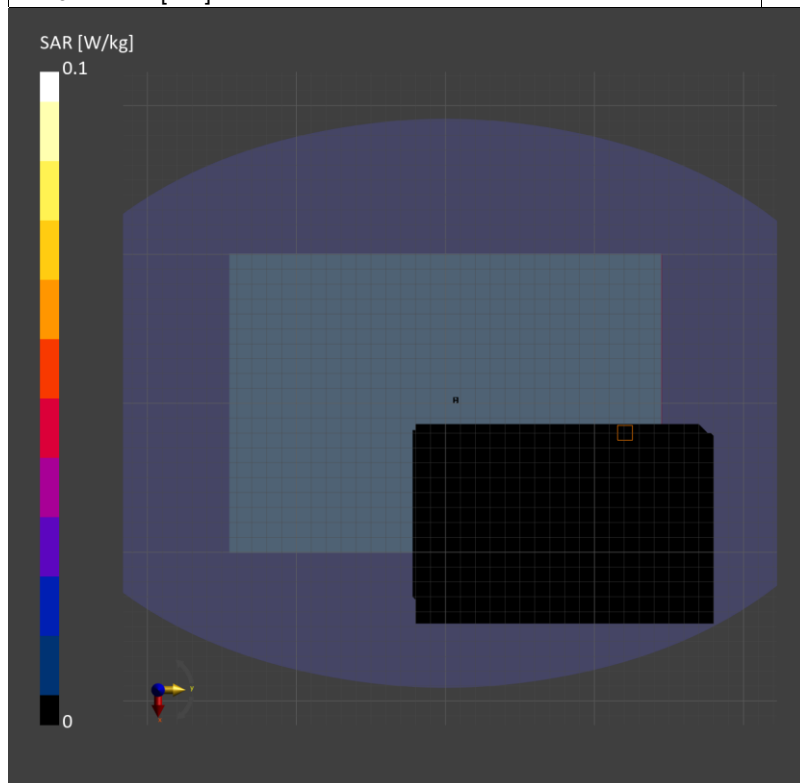
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 204.0	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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.001	0.001
psSAR8g [W/kg]	0	0
psSAR10g [W/kg]	0	0
psPDab (4.0cm2, sq) [W/m2]		0.021
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		13.1



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ID: 016

Report No. :TESA2511000839E5

Measurement Report_U-NII-7 6.7GHz 802.11ax(80M)_Body_Bottom Surface_CH 135_0mm_Main

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	6625.0, 135	5.66	6.251	34.833

Hardware Setup

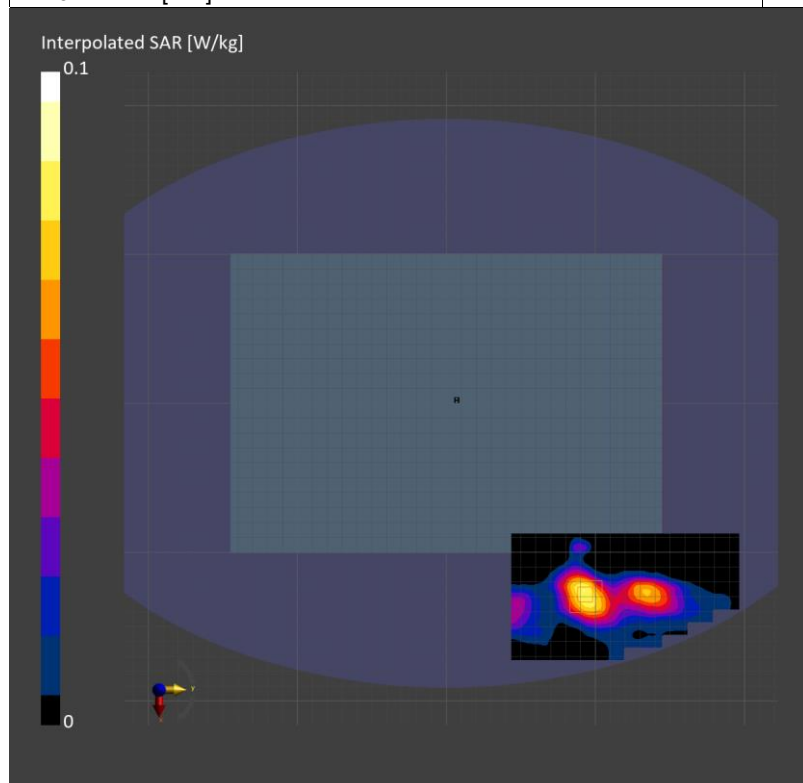
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 153.0	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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.068	0.074
psSAR8g [W/kg]	0.031	0.033
psSAR10g [W/kg]	0.028	0.030
psPDab (4.0cm2, sq) [W/m2]		0.654
Power Drift [dB]	0.01	0.05
M2/M1 [%]		55.1
Dist 3dB Peak [mm]		11.0



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ID: 017

Report No. :TESA2511000839E5

Measurement Report_U-NII-8 7.0GHz 802.11ax(1600M)_Body_Bottom Surface_CH 207_0mm_Main

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	6985.0, 207	5.81	6.642	34.401

Hardware Setup

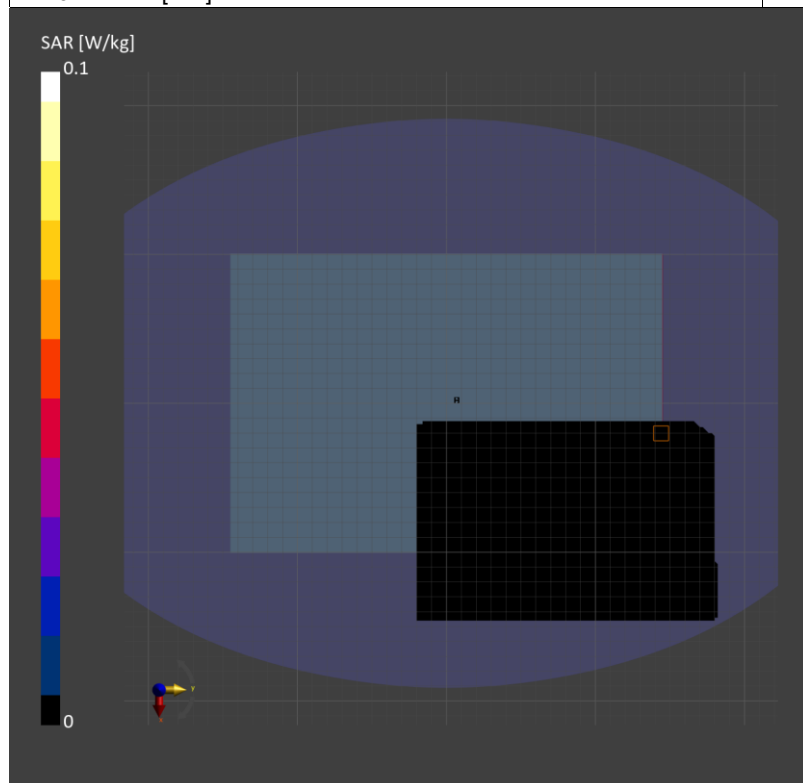
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 204.0	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	2025-11-22	2025-11-22
psSAR1g [W/kg]	0.001	0.001
psSAR8g [W/kg]	0	0
psSAR10g [W/kg]	0	0
psPDab (4.0cm2, sq) [W/m2]		0.022
Power Drift [dB]	0.01	0.05
M2/M1 [%]		50.1
Dist 3dB Peak [mm]		10.3



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ID: 018

Report No. :TESA2511000839E5

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 47_0mm_Aux

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	6185.0, 47	5.66	5.78	35.361

Hardware Setup

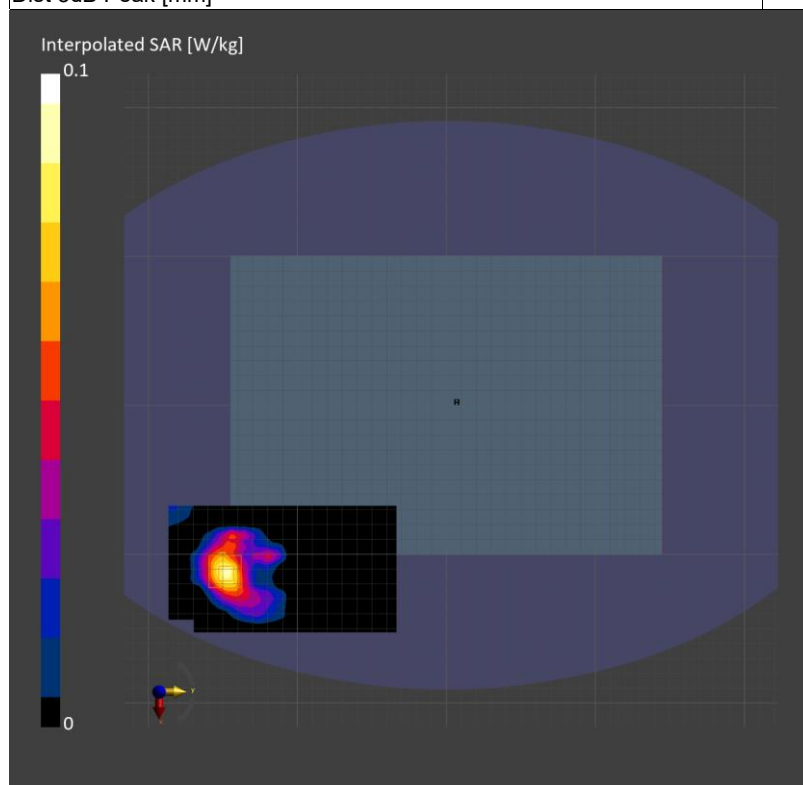
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 153.0	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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.068	0.071
psSAR8g [W/kg]	0.029	0.031
psSAR10g [W/kg]	0.026	0.028
psPDab (4.0cm2, sq) [W/m2]		0.624
Power Drift [dB]	0.01	-0.04
M2/M1 [%]		57.9
Dist 3dB Peak [mm]		9.8



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ID: 019

Report No. :TESA2511000839E5

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Aux

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	6505.0, 111	5.66	6.122	34.977

Hardware Setup

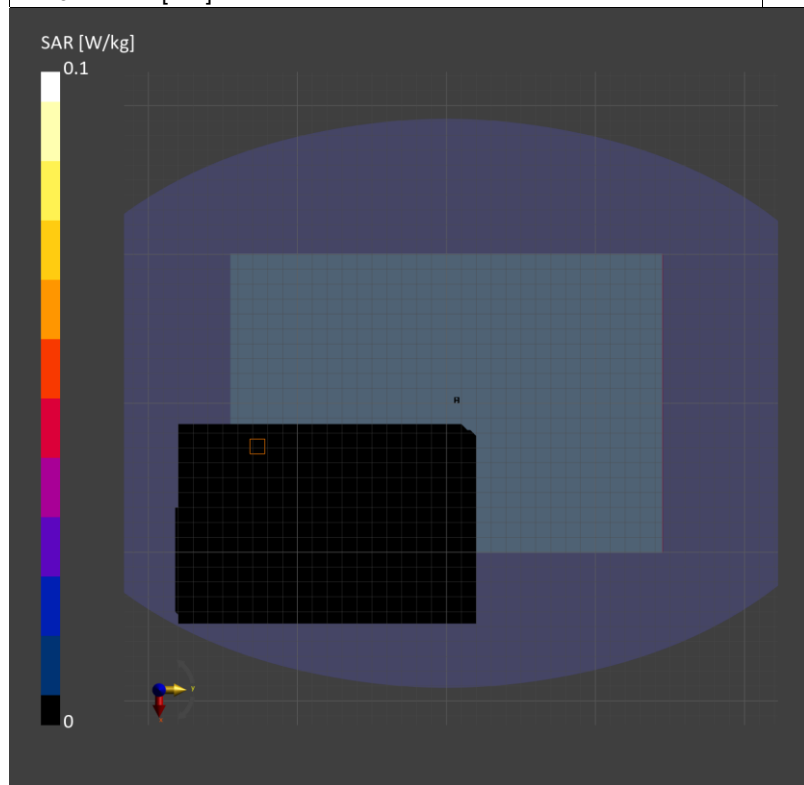
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 204.0	x x
Grid Steps [mm]	8.5 x 8.5	x x
Sensor Surface [mm]	3.0	

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.004	0.001
psSAR8g [W/kg]	0.002	0
psSAR10g [W/kg]	0.001	0
psPDab (4.0cm2, sq) [W/m2]		0.020
Power Drift [dB]	0.01	-0.01
M2/M1 [%]		50.3
Dist 3dB Peak [mm]		8.8



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ID: 020

Report No. :TESA2511000839E5

Measurement Report_U-NII-7 6.7GHz 802.11ax(80M)_Body_Bottom Surface_CH 135_0mm_Aux

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	6625.0, 135	5.66	6.251	34.833

Hardware Setup

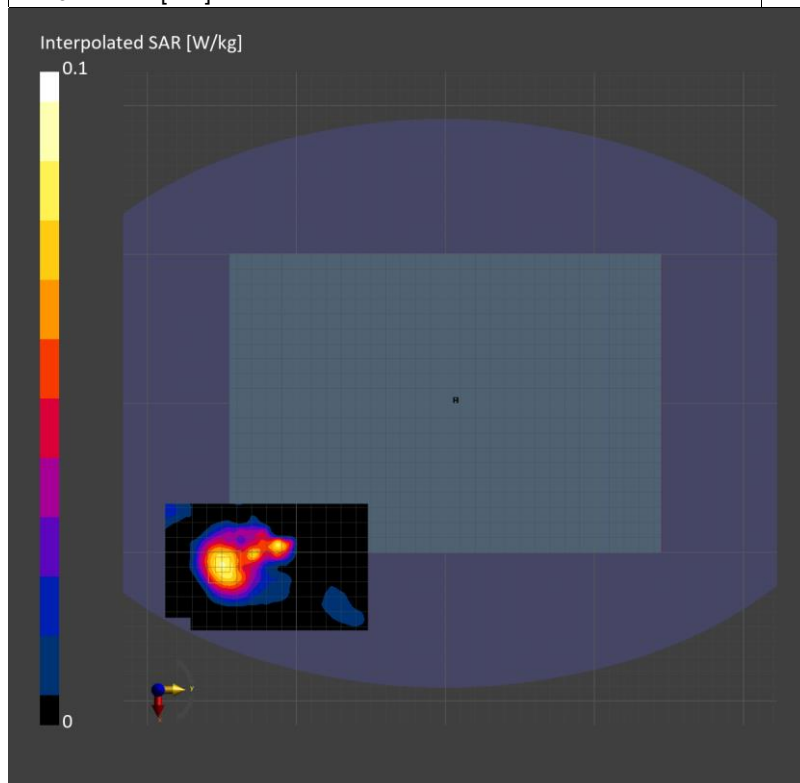
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.069	0.071
psSAR8g [W/kg]	0.031	0.031
psSAR10g [W/kg]	0.028	0.027
psPDab (4.0cm2, sq) [W/m2]		0.612
Power Drift [dB]	-0.03	-0.05
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		12.5



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ID: 021

Report No. :TESA2511000839E5

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Bottom Surface_CH 207_0mm_Aux

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Bottom Surface, 0.00	6985.0, 207	5.81	6.642	34.401

Hardware Setup

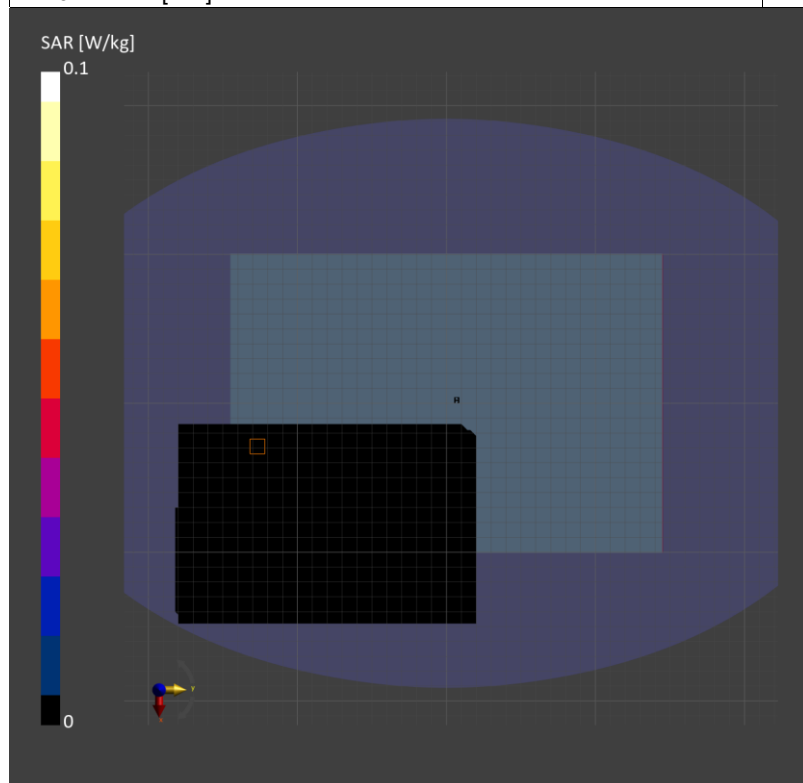
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 204.0	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	2025-11-22	2025-11-22
psSAR1g [W/kg]	0.001	0.001
psSAR8g [W/kg]	0	0
psSAR10g [W/kg]	0	0
psPDab (4.0cm2, sq) [W/m2]		0.02
Power Drift [dB]	-0.05	-0.04
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		8.7



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ID: 022

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11b_Body_Top Edge_CH 1_0mm_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	2412.0, 1	7.6	1.828	39.779

Hardware Setup

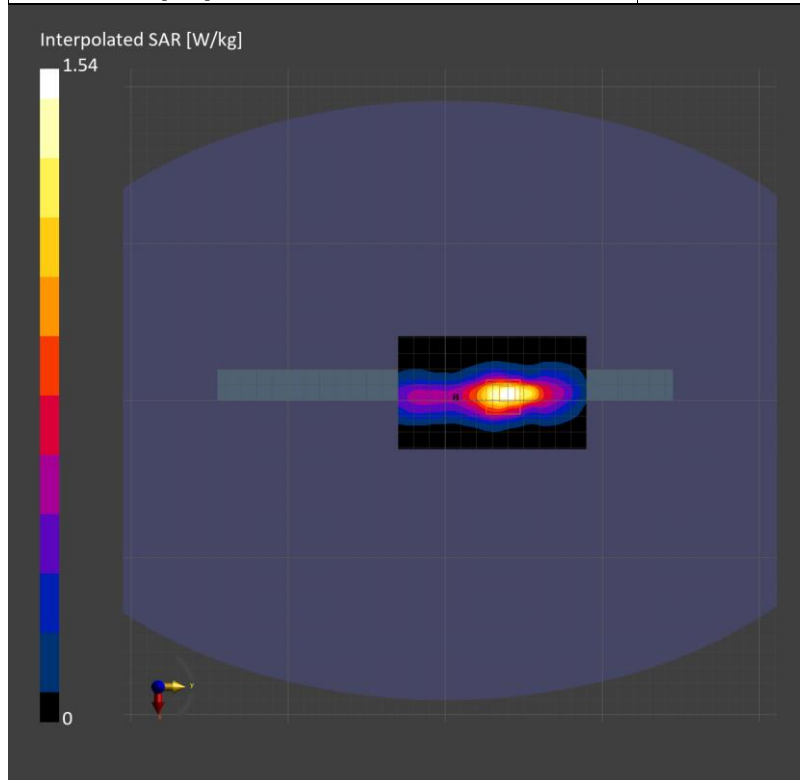
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-17	2025-11-17
psSAR1g [W/kg]	1.18	1.16
psSAR8g [W/kg]	0.624	0.623
psSAR10g [W/kg]	0.567	0.563
Power Drift [dB]	0.01	-0.01
M2/M1 [%]		51.0
Dist 3dB Peak [mm]		8.0



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ID: 023

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Top Edge_CH 46_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	5230.0, 46	5.82	4.779	36.463

Hardware Setup

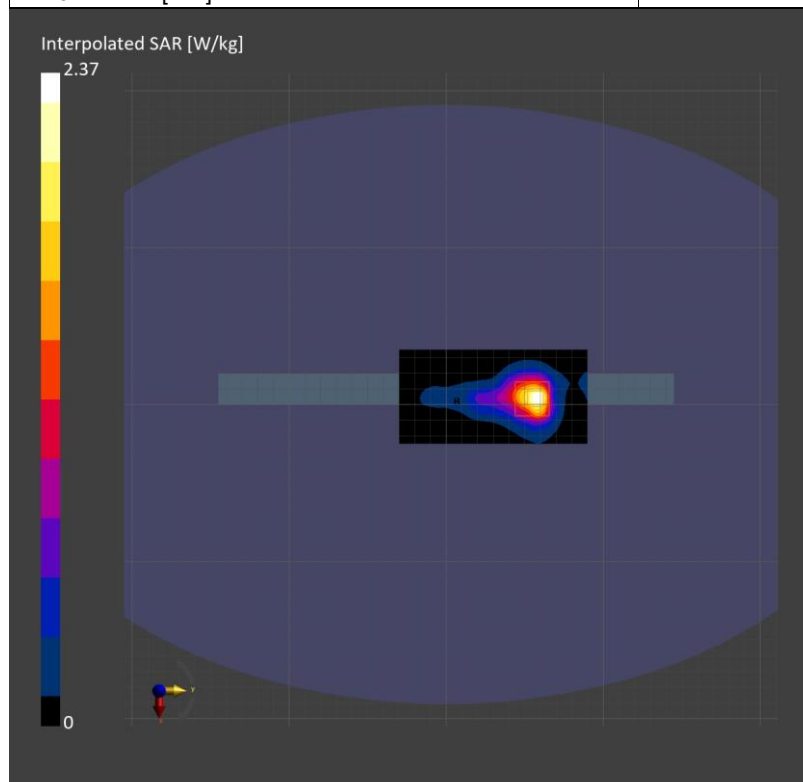
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-18	2025-11-18
psSAR1g [W/kg]	1.07	1.12
psSAR8g [W/kg]	0.438	0.445
psSAR10g [W/kg]	0.388	0.387
Power Drift [dB]	0.06	-0.04
M2/M1 [%]		51.2
Dist 3dB Peak [mm]		8.4



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ID: 024

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Top Edge_CH 54_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	5270.0, 54	5.82	4.821	36.417

Hardware Setup

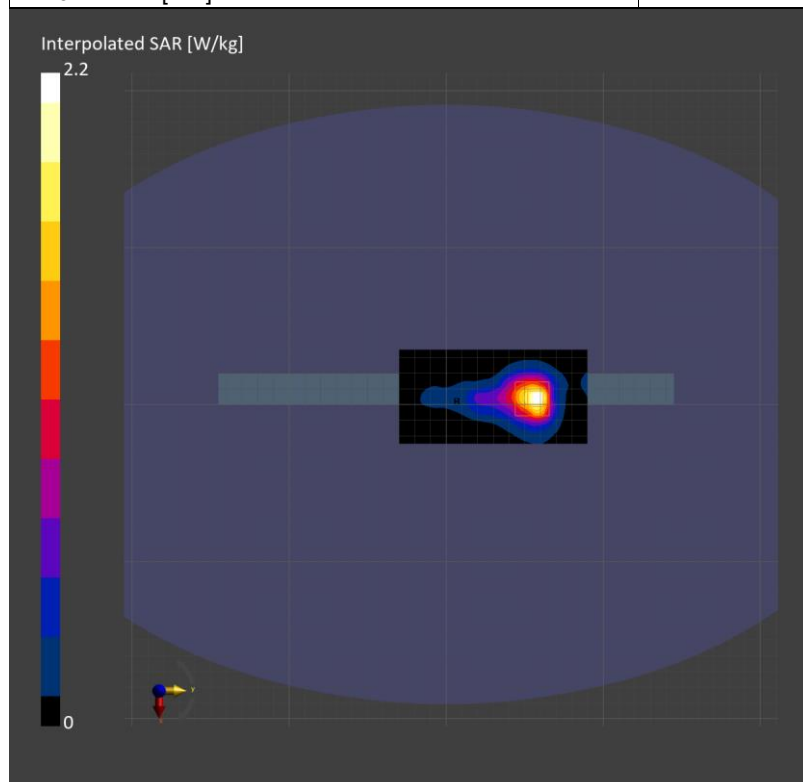
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-18	2025-11-18
psSAR1g [W/kg]	0.933	1.00
psSAR8g [W/kg]	0.379	0.381
psSAR10g [W/kg]	0.335	0.332
Power Drift [dB]	0.03	-0.03
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		8.4



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ID: 025

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 138_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	5690.0, 138	5.46	5.26	35.937

Hardware Setup

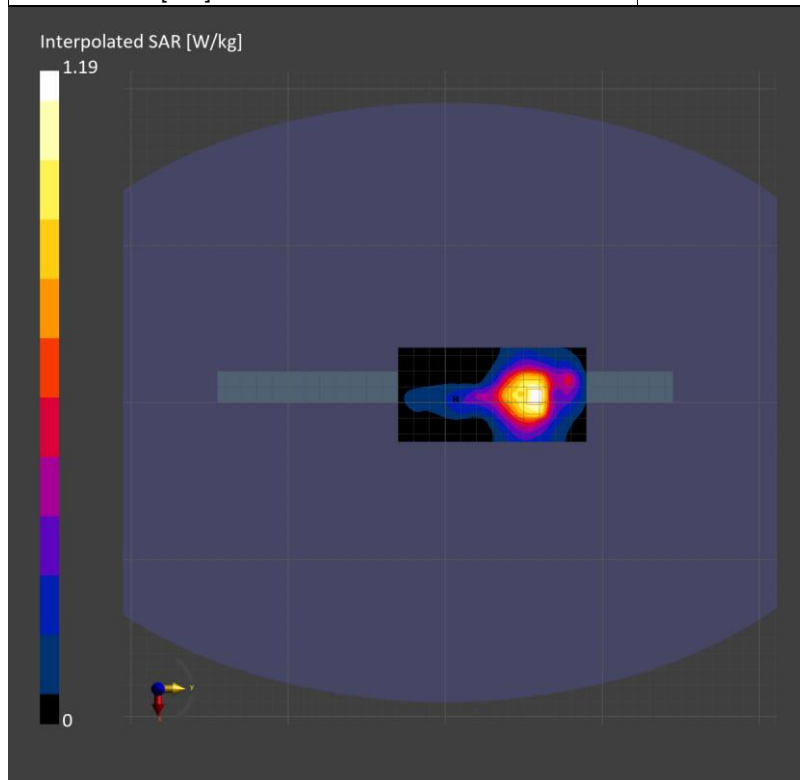
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.706	0.724
psSAR8g [W/kg]	0.304	0.304
psSAR10g [W/kg]	0.274	0.270
Power Drift [dB]	0.04	-0.05
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		12.5



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ID: 026

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11n(40M) 5.8G_Body_Top Edge_CH 159_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	5795.0, 159	5.46	5.369	35.817

Hardware Setup

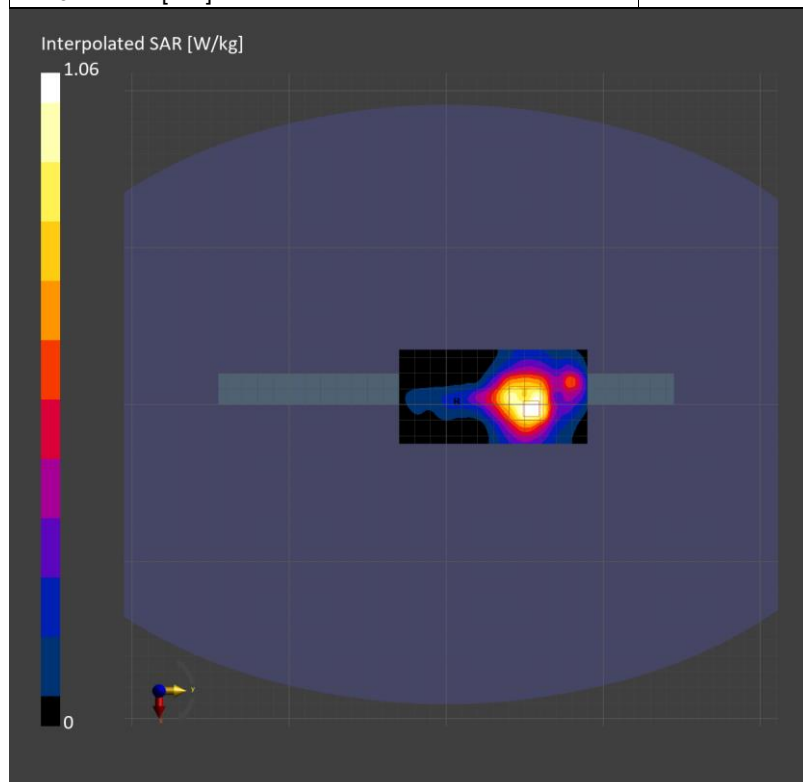
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.813	0.816
psSAR8g [W/kg]	0.372	0.355
psSAR10g [W/kg]	0.340	0.317
Power Drift [dB]	0.02	-0.03
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		15.2



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ID: 027

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11ac(80M) 5.9G_Body_Top Edge_CH 171_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	5855.0, 171	5.49	5.432	35.749

Hardware Setup

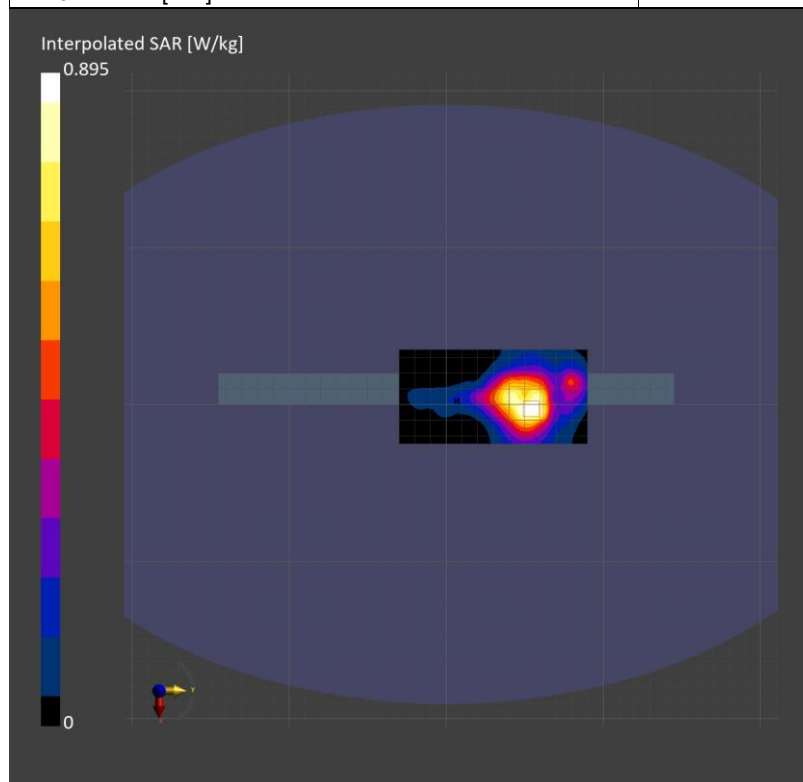
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.688	0.723
psSAR8g [W/kg]	0.312	0.392
psSAR10g [W/kg]	0.284	0.362
Power Drift [dB]	-0.03	-0.03
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		14.5



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ID: 028

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11b_Body_Top Edge_CH 1_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	2412.0, 1	7.6	1.828	39.779

Hardware Setup

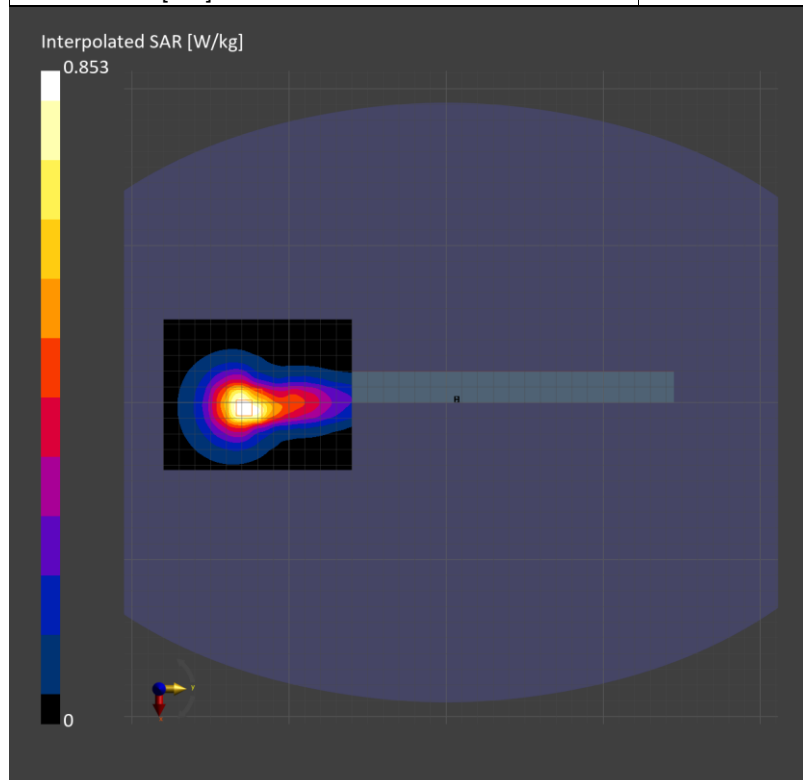
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-17	2025-11-17
psSAR1g [W/kg]	0.696	0.857
psSAR8g [W/kg]	0.398	0.440
psSAR10g [W/kg]	0.365	0.400
Power Drift [dB]	-0.01	-0.06
M2/M1 [%]		59.7
Dist 3dB Peak [mm]		7.1



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ID: 029

Report No. :TESA2511000839E5

Measurement Report_Bluetooth(GFSK)_Body_Top Edge_CH 0_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	2402.0, 0	7.6	1.819	39.797

Hardware Setup

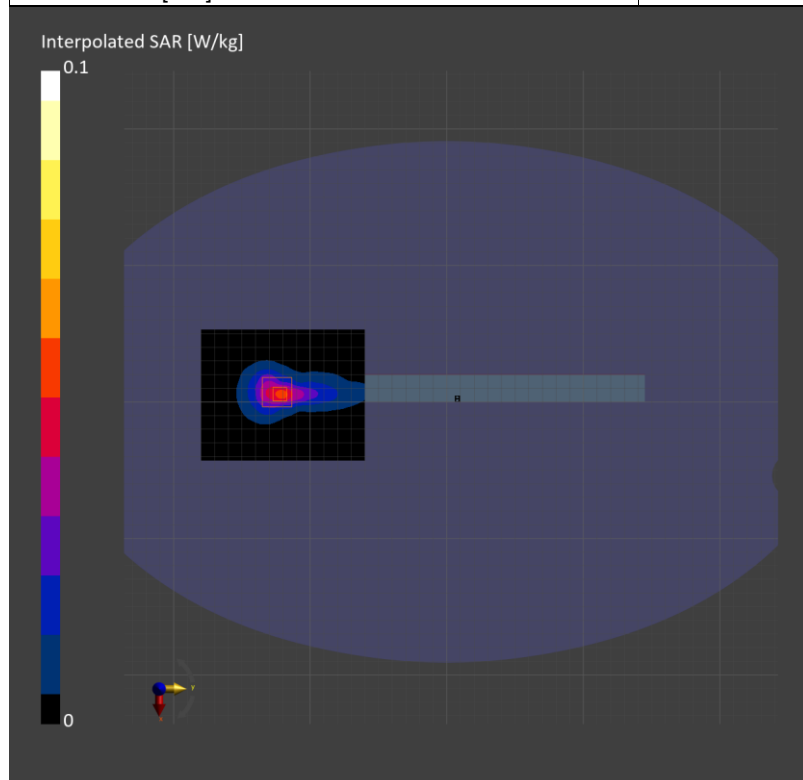
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-17	2025-11-17
psSAR1g [W/kg]	0.041	0.040
psSAR8g [W/kg]	0.022	0.020
psSAR10g [W/kg]	0.020	0.018
Power Drift [dB]	-0.02	-0.04
M2/M1 [%]		57.6
Dist 3dB Peak [mm]		6.0



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ID: 030

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Top Edge_CH 46_0mm_Aux

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	5230.0, 46	5.82	4.779	36.463

Hardware Setup

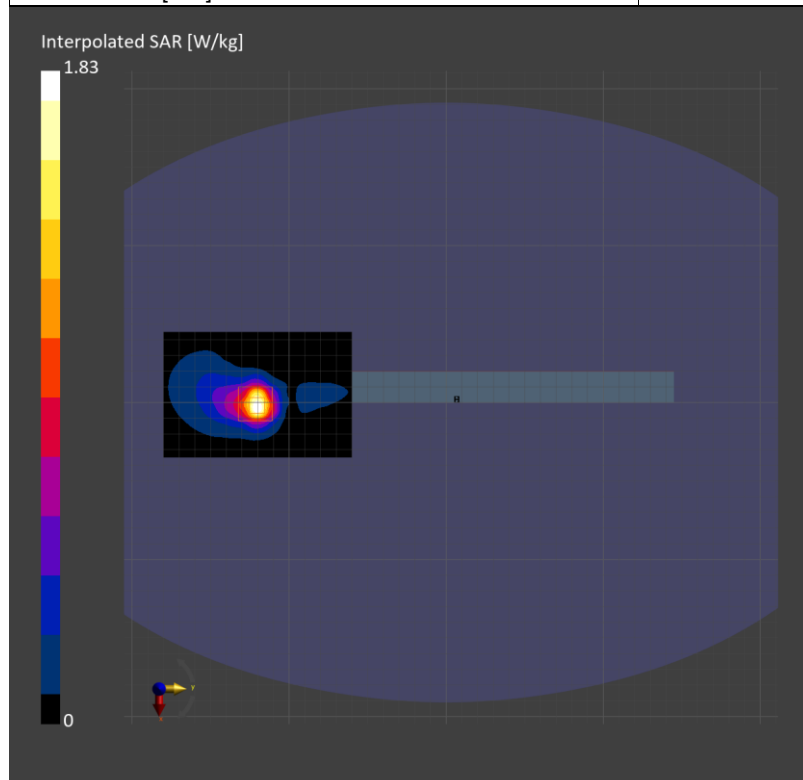
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-18	2025-11-18
psSAR1g [W/kg]	0.791	0.891
psSAR8g [W/kg]	0.312	0.334
psSAR10g [W/kg]	0.275	0.293
Power Drift [dB]	-0.03	-0.06
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		8.7



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ID: 031

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11n(40M) 5.3G_Body_Top Edge_CH 54_0mm_Aux

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	5270.0, 54	5.82	4.821	36.417

Hardware Setup

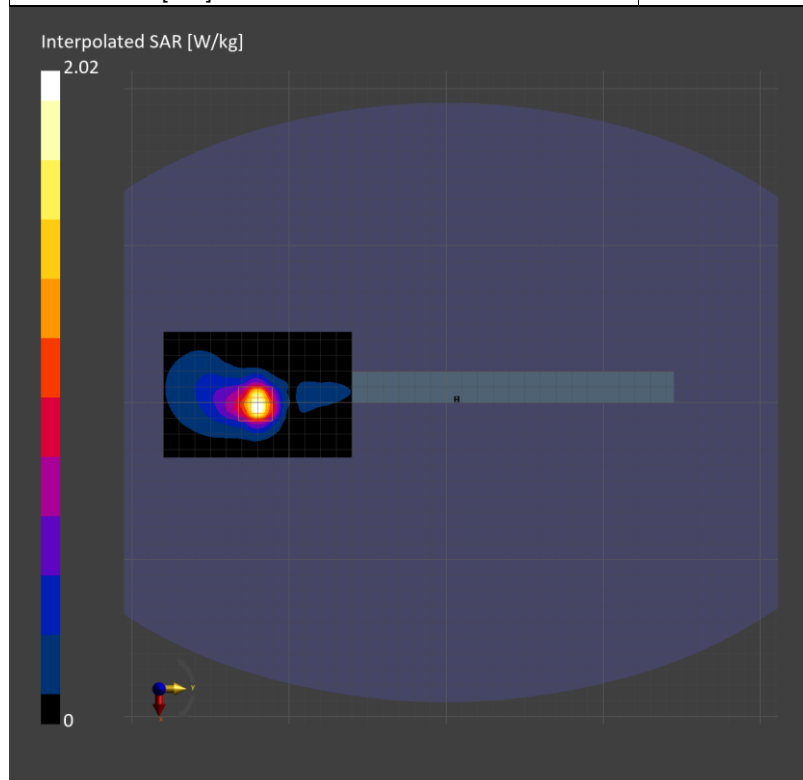
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-18	2025-11-18
psSAR1g [W/kg]	0.787	0.860
psSAR8g [W/kg]	0.310	0.322
psSAR10g [W/kg]	0.273	0.283
Power Drift [dB]	0.03	-0.01
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		8.0



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ID: 032

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 138_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	5690.0, 138	5.46	5.26	35.937

Hardware Setup

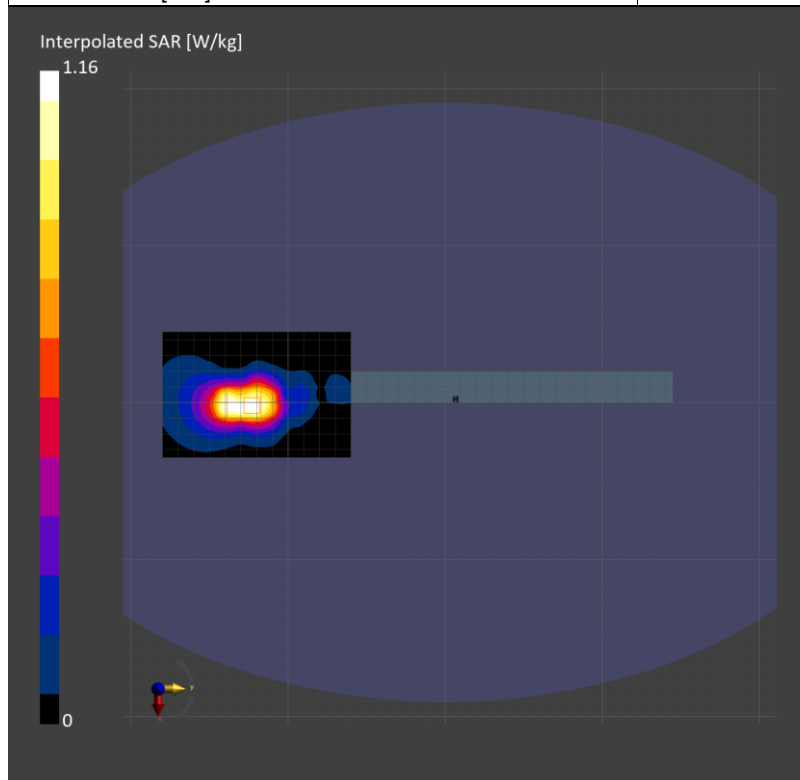
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.734	0.822
psSAR8g [W/kg]	0.329	0.340
psSAR10g [W/kg]	0.298	0.303
Power Drift [dB]	0.01	0.04
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		10.4



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ID: 033

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11n(40M) 5.8G_Body_Top Edge_CH 159_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	5795.0, 159	5.46	5.369	35.817

Hardware Setup

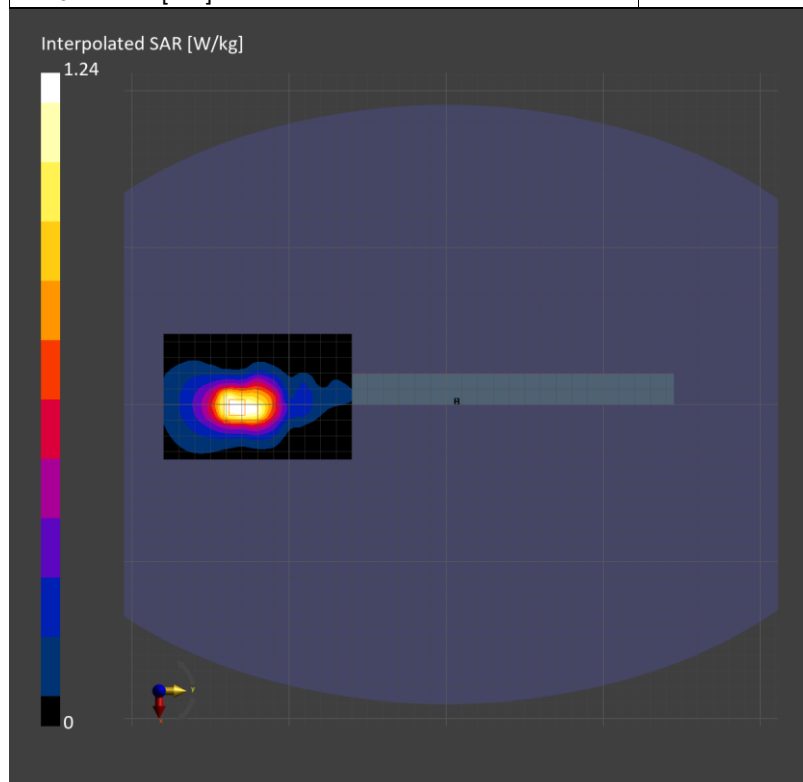
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.947	1.02
psSAR8g [W/kg]	0.426	0.441
psSAR10g [W/kg]	0.385	0.398
Power Drift [dB]	0.02	-0.02
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		9.8



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ID: 034

Report No. :TESA2511000839E5

Measurement Report_WLAN 802.11ac(80M) 5.9G_Body_Top Edge_CH 171_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	5855.0, 171	5.49	5.432	35.749

Hardware Setup

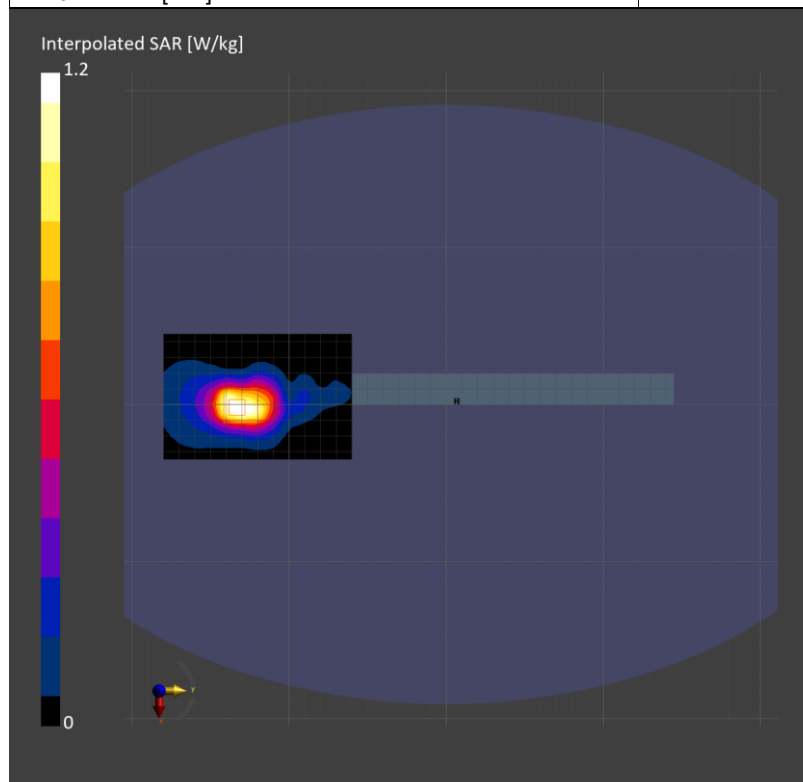
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	0.919	0.993
psSAR8g [W/kg]	0.410	0.430
psSAR10g [W/kg]	0.370	0.387
Power Drift [dB]	0.05	0.02
M2/M1 [%]		55.9
Dist 3dB Peak [mm]		9.9



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ID: 035

Report No. :TESA2511000839E5

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Top Edge_CH 47_0mm_Main

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	6185.0, 47	5.66	5.78	35.361

Hardware Setup

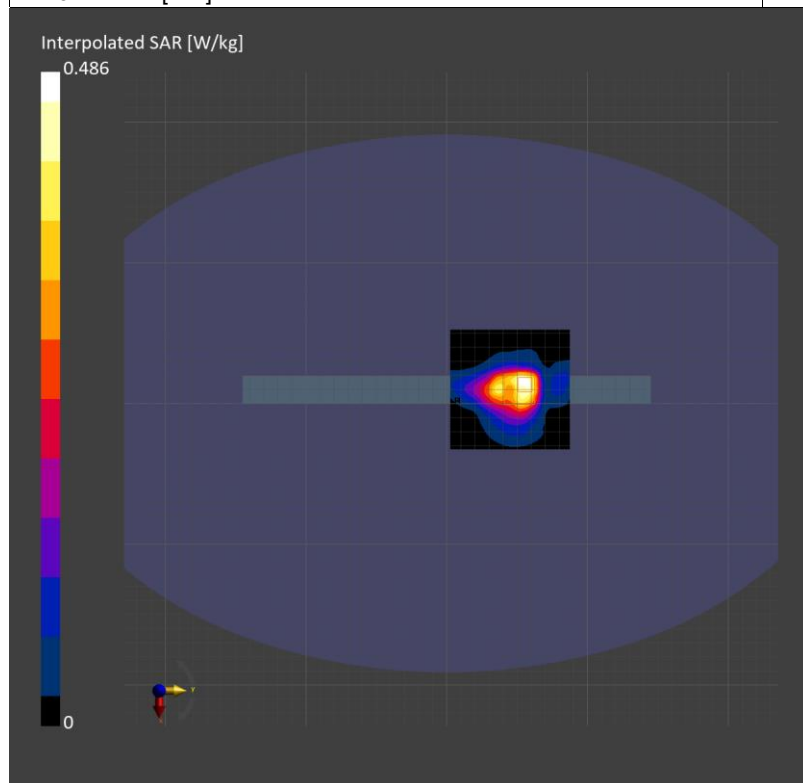
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.369	0.432
psSAR8g [W/kg]	0.158	0.168
psSAR10g [W/kg]	0.143	0.148
psPDab (4.0cm2, sq) [W/m2]		3.35
Power Drift [dB]	-0.03	-0.02
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		7.1



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ID: 036

Report No. :TESA2511000839E5

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Top Edge_CH 111_0mm_Main

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	6505.0, 111	5.66	6.122	34.977

Hardware Setup

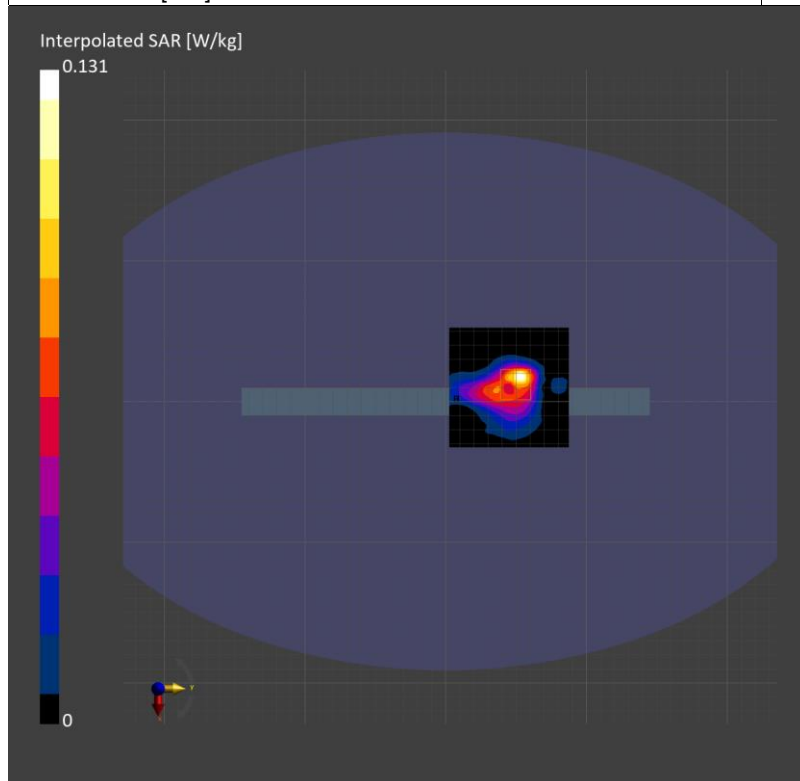
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.089	0.104
psSAR8g [W/kg]	0.034	0.036
psSAR10g [W/kg]	0.031	0.031
psPDab (4.0cm2, sq) [W/m2]		0.714
Power Drift [dB]	0.03	0.05
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		6.3



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ID: 037

Report No. :TESA2511000839E5

Measurement Report_U-NII-7 6.7GHz 802.11ax(80M)_Body_Top Edge_CH 167_0mm_Main

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	6785.0, 167	5.81	6.424	34.641

Hardware Setup

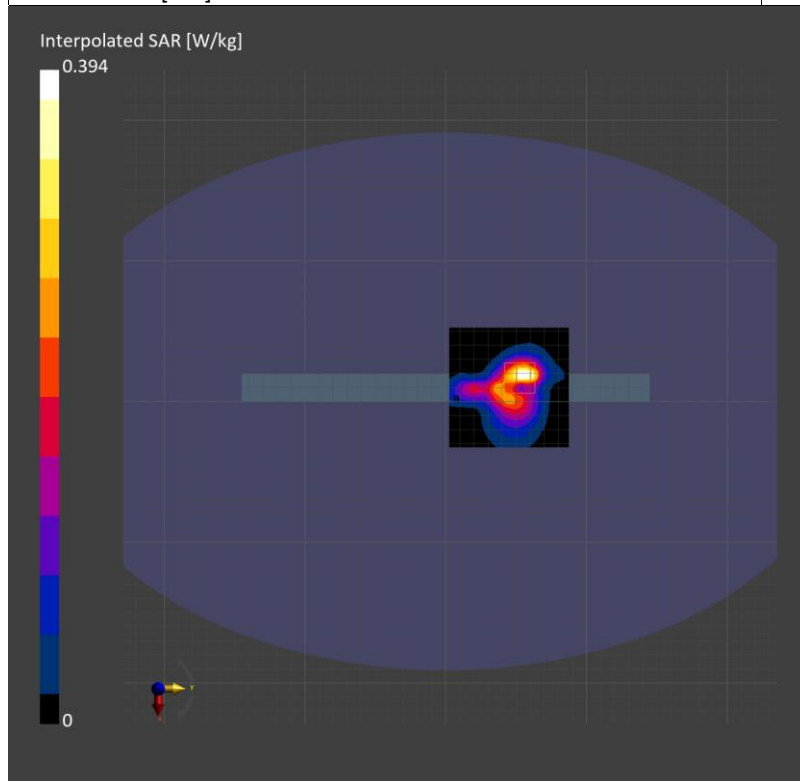
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.297	0.341
psSAR8g [W/kg]	0.110	0.121
psSAR10g [W/kg]	0.099	0.108
psPDab (4.0cm2, sq) [W/m2]		2.42
Power Drift [dB]	-0.06	-0.01
M2/M1 [%]		59.0
Dist 3dB Peak [mm]		6.8



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ID: 038

Report No. :TESA2511000839E5

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Top Edge_CH 207_0mm_Main

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	6985.0, 207	5.81	6.642	34.401

Hardware Setup

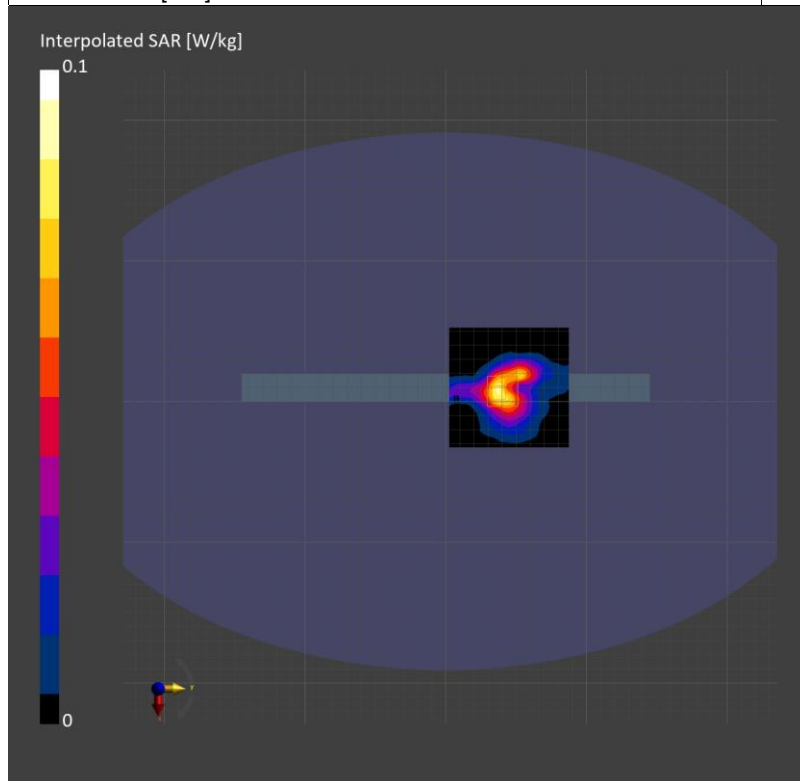
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2025-11-22	2025-11-22
psSAR1g [W/kg]	0.071	0.080
psSAR8g [W/kg]	0.030	0.032
psSAR10g [W/kg]	0.027	0.028
psPDab (4.0cm2, sq) [W/m2]		0.635
Power Drift [dB]	0.05	0.03
M2/M1 [%]		53.1
Dist 3dB Peak [mm]		8.9



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ID: 039

Report No. :TESA2511000839E5

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Top Edge_CH 15_0mm_Aux

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	6025.0, 15	5.66	5.611	35.553

Hardware Setup

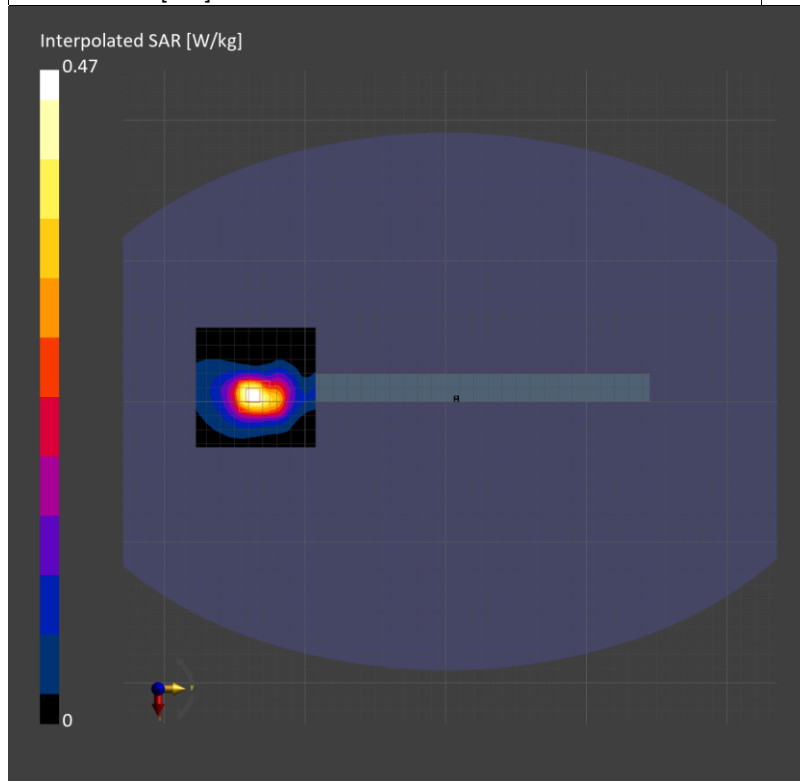
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.361	0.391
psSAR8g [W/kg]	0.154	0.168
psSAR10g [W/kg]	0.138	0.152
psPDab (4.0cm2, sq) [W/m2]		3.37
Power Drift [dB]	0.04	0.03
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		10.4



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ID: 040

Report No. :TESA2511000839E5

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Top Edge_CH 111_0mm_Aux

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	6505.0, 111	5.66	6.122	34.977

Hardware Setup

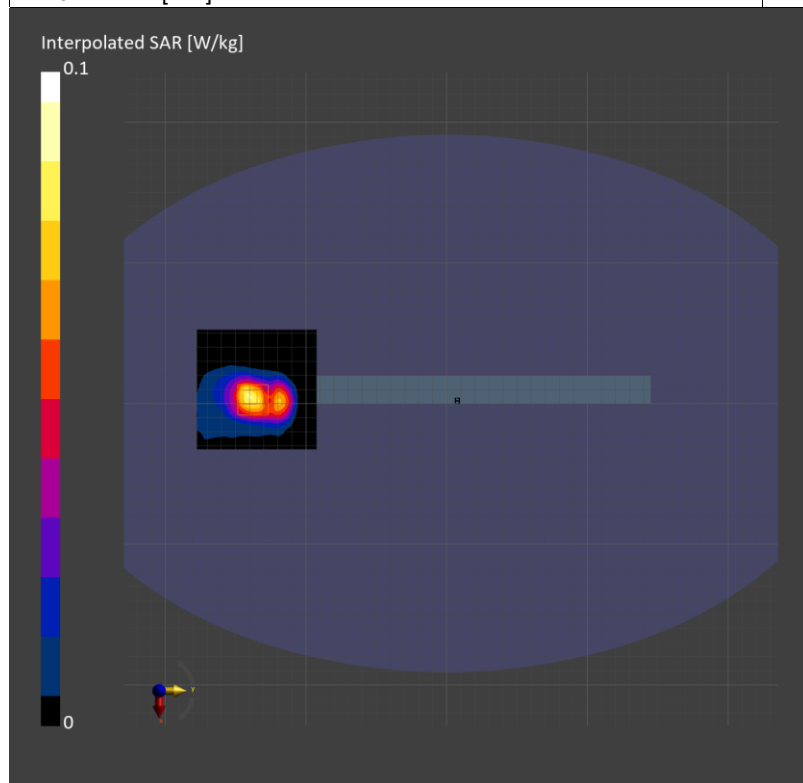
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.068	0.069
psSAR8g [W/kg]	0.028	0.027
psSAR10g [W/kg]	0.025	0.024
psPDab (4.0cm2, sq) [W/m2]		0.548
Power Drift [dB]	-0.05	0.06
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		9.7



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ID: 041

Report No. :TESA2511000839E5

Measurement Report_U-NII-7 6.7GHz 802.11ax(80M)_Body_Top Edge_CH 151_0mm_Aux

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	6705.0, 151	5.66	6.337	34.737

Hardware Setup

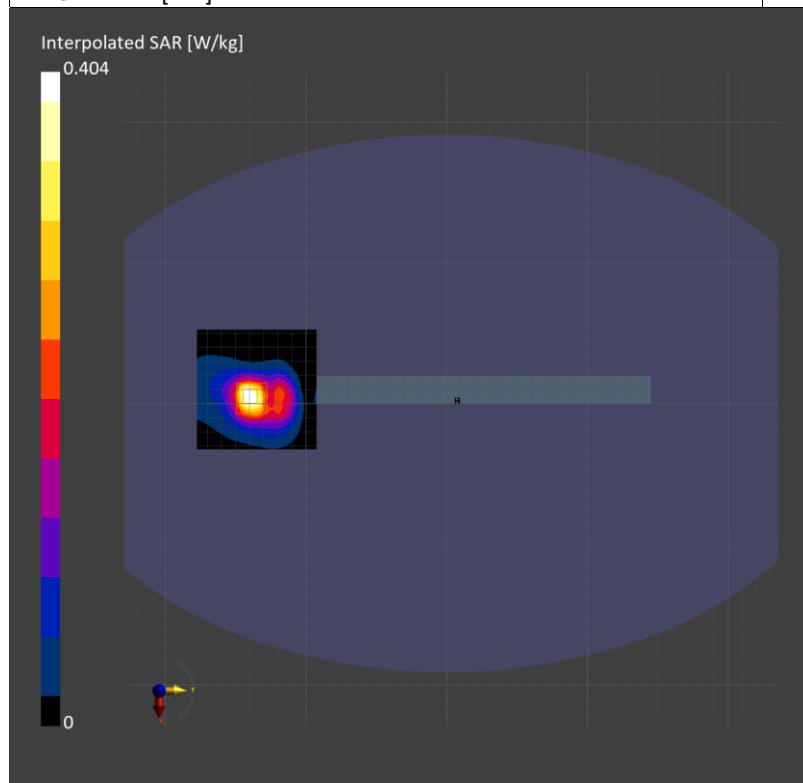
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2025-11-21	2025-11-21
psSAR1g [W/kg]	0.330	0.345
psSAR8g [W/kg]	0.135	0.143
psSAR10g [W/kg]	0.120	0.128
psPDab (4.0cm2, sq) [W/m2]		2.87
Power Drift [dB]	-0.02	-0.01
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		9.8



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ID: 042

Report No. :TESA2511000839E5

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Top Edge_CH 207_0mm_Aux

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Top Edge, 0.00	6985.0, 207	5.81	6.642	34.401

Hardware Setup

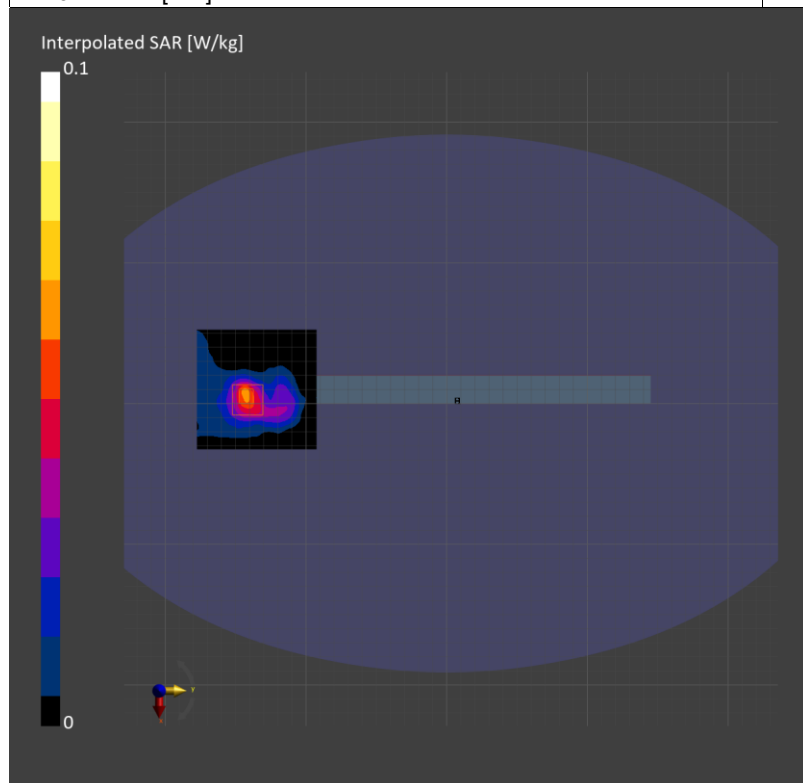
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2025-11-22	2025-11-22
psSAR1g [W/kg]	0.052	0.048
psSAR8g [W/kg]	0.021	0.018
psSAR10g [W/kg]	0.019	0.016
psPDab (4.0cm2, sq) [W/m2]		0.358
Power Drift [dB]	0.01	-0.01
M2/M1 [%]		59.9
Dist 3dB Peak [mm]		8.0



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13 PD MEASUREMENT RESULTS

ID: 043

Report No. :TESA2511000839E5

Measurement Report_Top Edge, U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Top Edge, 2.00	1.0

Hardware Setup

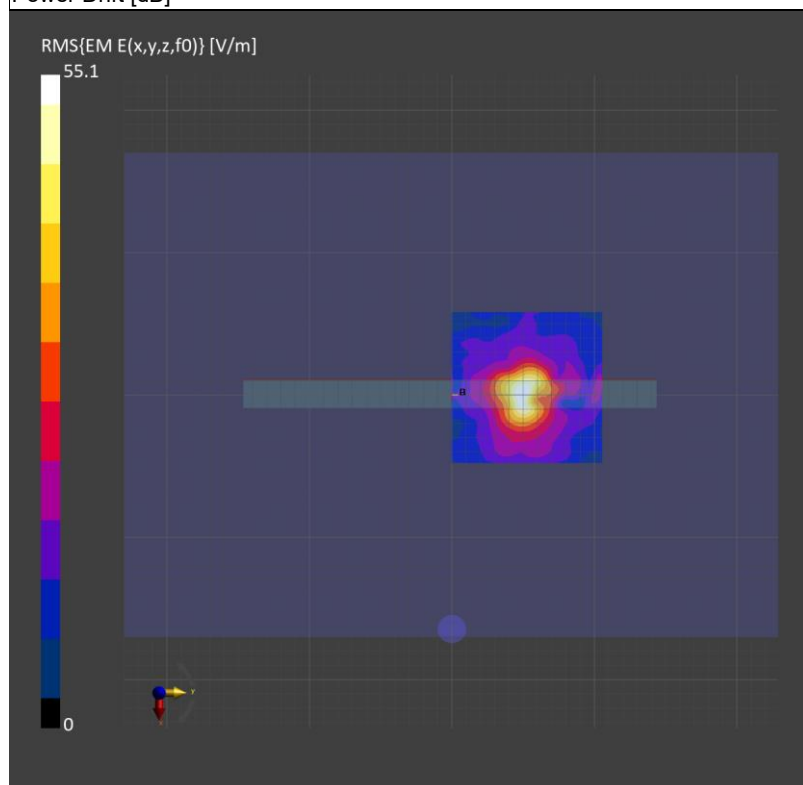
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn1665, 2025-03-11

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	2025-11-23
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	4.67
psPDtot+ [W/m ²]	5.19
psPDmod+ [W/m ²]	6.01
E _{max} [V/m]	55.1
Power Drift [dB]	0.02



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ID: 044

Report No. :TESA2511000839E5

Measurement Report_Top Edge, U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Top Edge, 2.00	1.0

Hardware Setup

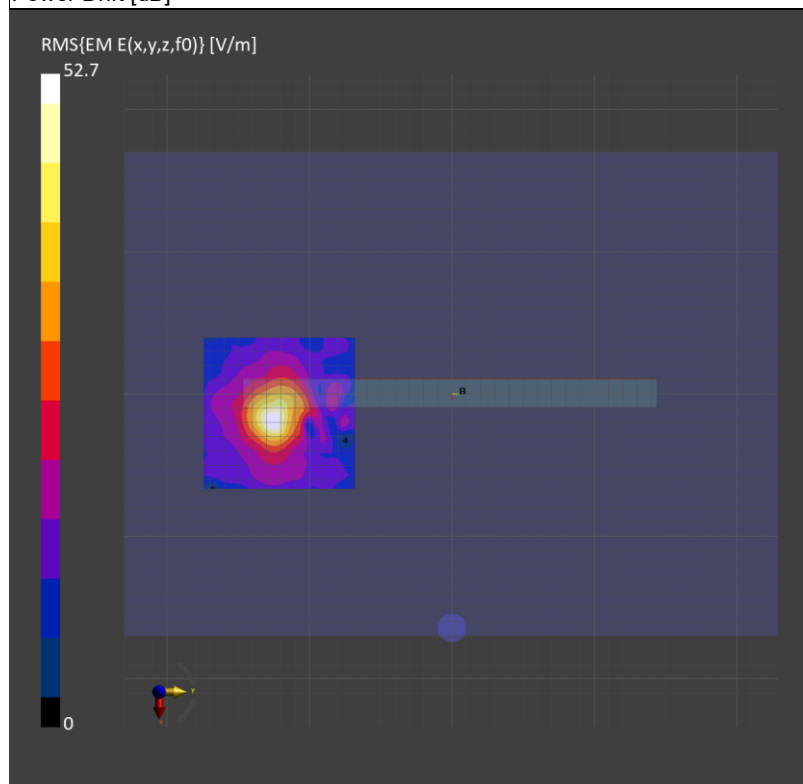
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn1665, 2025-03-11

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	2025-11-23
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	4.58
psPDtot+ [W/m ²]	4.98
psPDmod+ [W/m ²]	5.11
E _{max} [V/m]	52.7
Power Drift [dB]	-0.07



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14 SAR SYSTEM CHECK RESULTS

Report No. :TESA2511000839E5

Measurement Report

Dipole 2450 MHz_SN:727

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	2450.0, 50	7.6	1.861	39.712

Hardware Setup

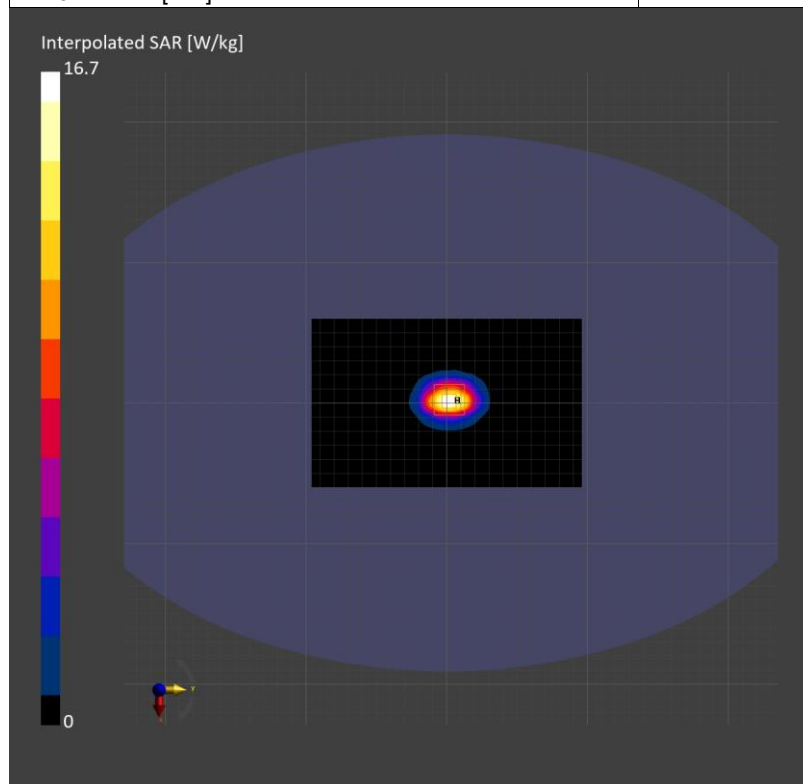
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-17	2025-11-17
psSAR1g [W/kg]	12.9	13.1
psSAR8g [W/kg]	6.71	6.86
psSAR10g [W/kg]	6.07	6.23
Power Drift [dB]	0.00	0.00
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		9.1



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Report No. :TESA2511000839E5

Measurement Report

Dipole 5250 MHz_SN:1349

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5250.0, 25	5.82	4.8	36.44

Hardware Setup

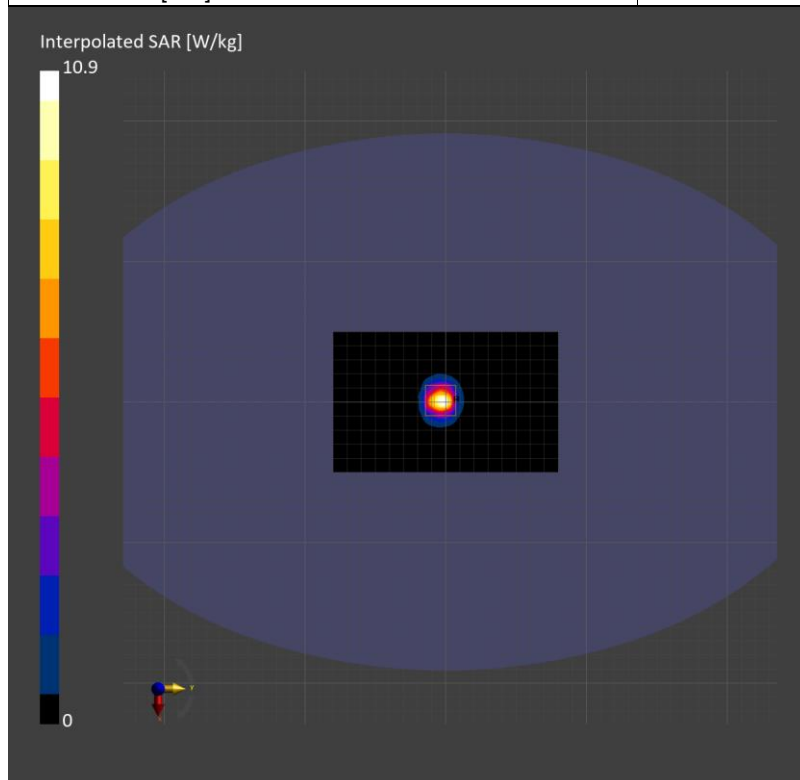
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 150.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-18	2025-11-18
psSAR1g [W/kg]	7.26	8.37
psSAR8g [W/kg]	2.55	2.78
psSAR10g [W/kg]	2.20	2.38
Power Drift [dB]	-0.03	0.03
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		7.6



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Report No. :TESA2511000839E5

Measurement Report

Dipole 5600 MHz_SN:1349

Ambient temperature: 22.8°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5600.0, 60	5.44	5.166	36.04

Hardware Setup

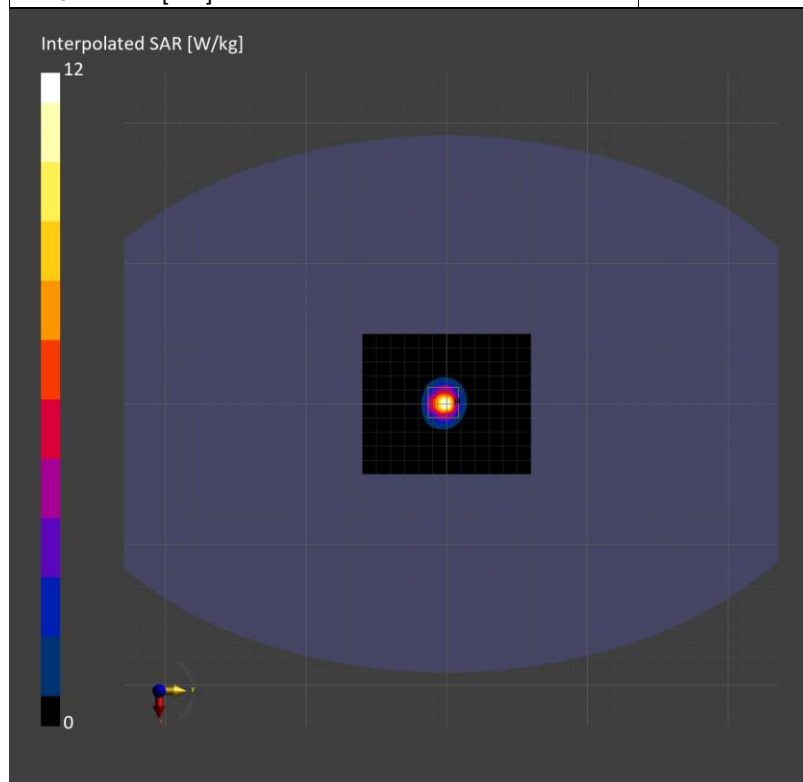
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-19	2025-11-19
psSAR1g [W/kg]	7.61	8.63
psSAR8g [W/kg]	2.56	2.87
psSAR10g [W/kg]	2.21	2.46
Power Drift [dB]	0.01	0.04
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		7.2



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Report No. :TESA2511000839E5

Measurement Report

Dipole 5750 MHz_SN:1349

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5750.0, 75	5.46	5.322	35.869

Hardware Setup

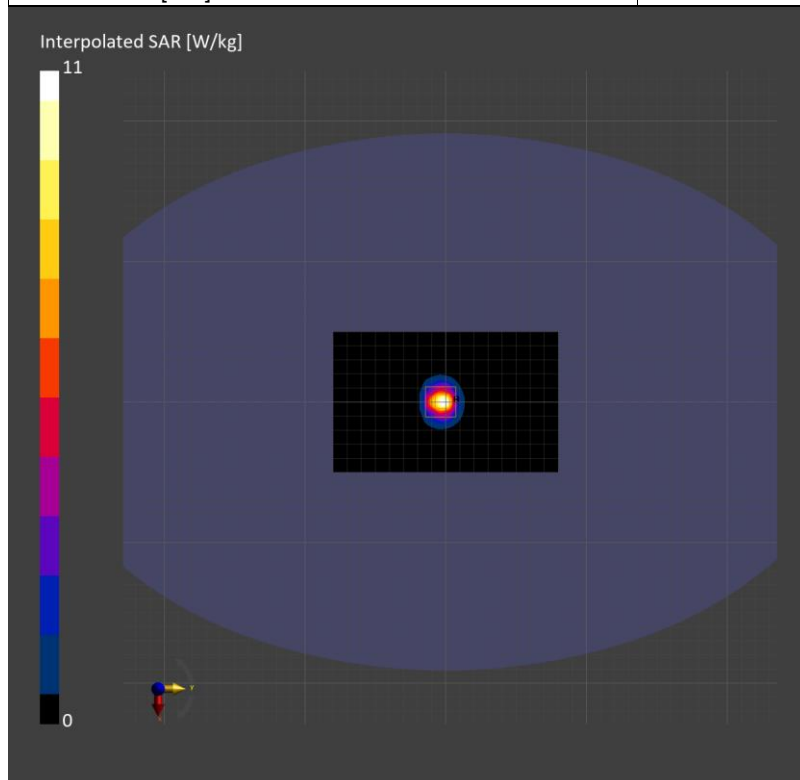
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 150.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	7.29	8.34
psSAR8g [W/kg]	2.50	2.78
psSAR10g [W/kg]	2.16	2.40
Power Drift [dB]	-0.01	0.04
M2/M1 [%]		57.9
Dist 3dB Peak [mm]		7.6



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Report No. :TESA2511000839E5

Measurement Report

Dipole 5850 MHz_SN:1349

Ambient temperature: 22.1°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	5850.0, 85	5.49	5.427	35.755

Hardware Setup

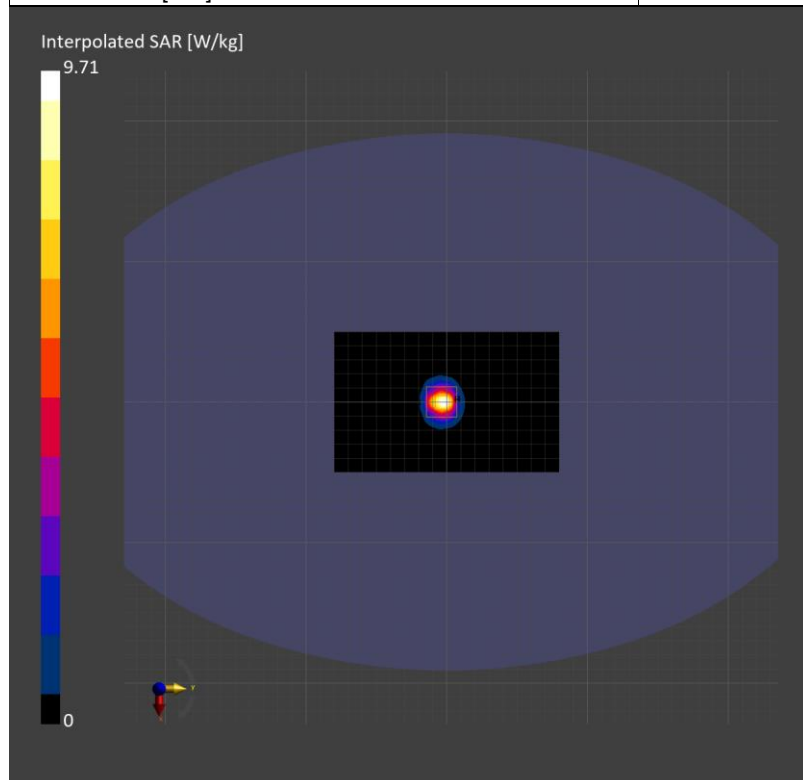
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 150.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-11-20	2025-11-20
psSAR1g [W/kg]	6.58	7.65
psSAR8g [W/kg]	2.26	2.51
psSAR10g [W/kg]	1.95	2.17
Power Drift [dB]	-0.01	0.03
M2/M1 [%]		57.5
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2511000839E5

Measurement Report

Dipole 6500 MHz_SN:1006

Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 5.00	6500.0, 6500	5.66	6.116	34.983

Hardware Setup

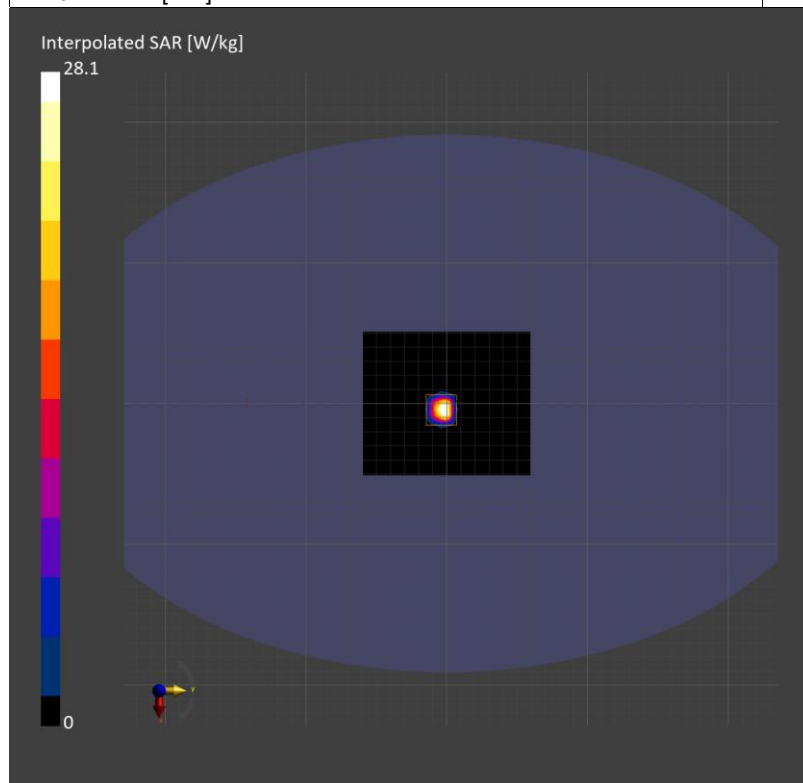
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 119.0	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	2025-11-21	2025-11-21
psSAR1g [W/kg]	20.6	28.5
psSAR8g [W/kg]	5.78	6.47
psSAR10g [W/kg]	4.80	5.31
psPDab (4.0cm2, sq) [W/m2]		129
Power Drift [dB]	-0.05	0.03
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		4.6



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Report No. :TESA2511000839E5

Measurement Report

Dipole 7000 MHz_SN:1007

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 5.00	7000.0, 7000	5.81	6.658	34.383

Hardware Setup

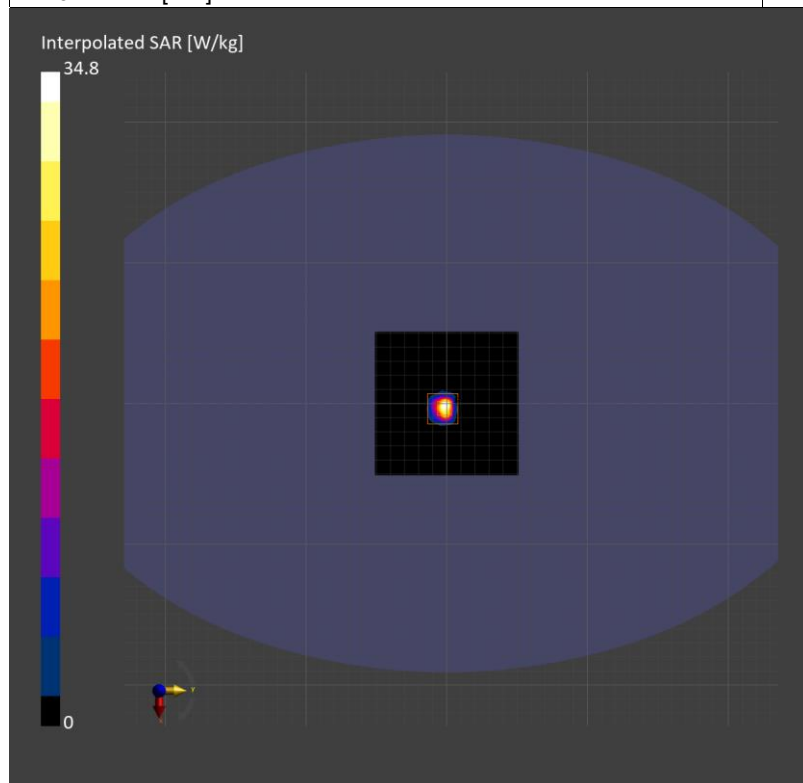
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2025-02-19	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 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	2025-11-22	2025-11-22
psSAR1g [W/kg]	24.1	28.3
psSAR8g [W/kg]	6.39	6.15
psSAR10g [W/kg]	5.30	5.02
psPDab (4.0cm2, sq) [W/m2]		123
Power Drift [dB]	-0.01	-0.02
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		4.6



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15 PD SYSTEM CHECK RESULTS

Report No. : TESA2511000839E5

Measurement Report

5G Verification Source 10GHz-SN:1021

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	FRONT, 10.00	1.0

Hardware Setup

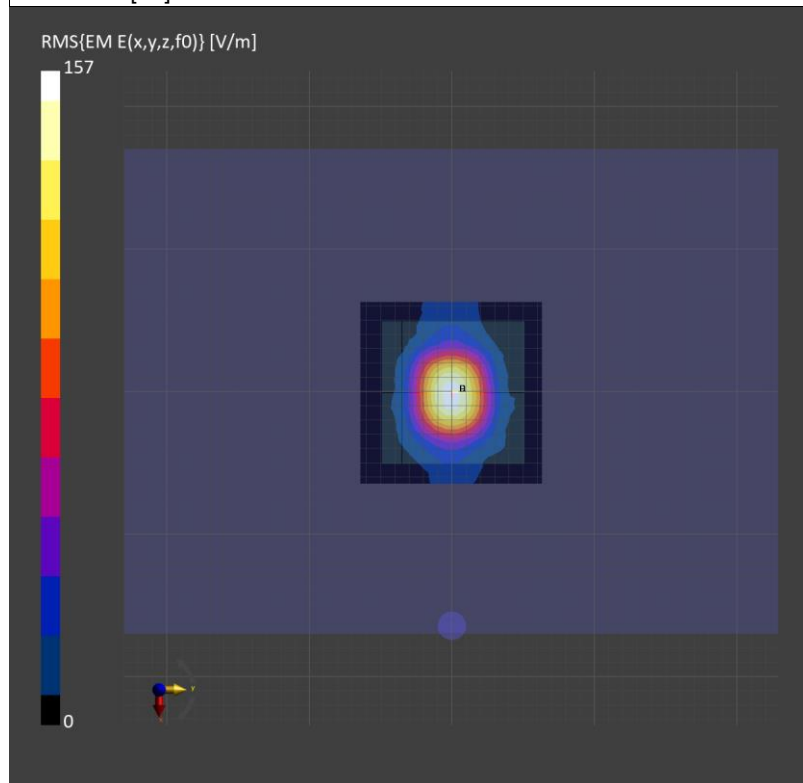
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn1665, 2023-02-21

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	2025-11-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	52.0
psPDtot+ [W/m ²]	52.1
psPDmod+ [W/m ²]	52.5
E _{max} [V/m]	150
Power Drift [dB]	0.06



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16 APPENDIXES

Refer to separated files for the following appendixes.

16.1 SAR_Appendix A Photographs

16.2 SAR_Appendix B DAE & Probe Cal. Certificate

16.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

16.4 SAR_Appendix D Dipole Extended Calibration Verification

- End of report -

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