

# RF Exposure report



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

<b>EUT Description</b>	Wireless module installed in Notebook Computer
<b>Brand Name</b>	
<b>Model No.</b>	BE200D2W
<b>Host Model Number:</b>	N25Q9
<b>Applicant</b>	Acer Incorporated 8F, 88, Sec. 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan
<b>Standards</b>	IEEE/ANSI C95.1-1992, IEEE 1528-2013
<b>FCC ID</b>	HLZBE200D2
<b>Date of EUT Receipt</b>	Oct. 28, 2024
<b>Date of Test(s)</b>	Nov. 18, 2024 ~ Nov. 27, 2024
<b>Date of Issue</b>	Jan. 07, 2025

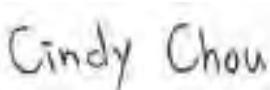
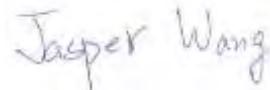
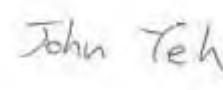
In the configuration tested, the EUT complied with the standards specified above.

**Remarks:**

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

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**Signed on behalf of SGS**

Clerk / Cindy Chou	PM / Jasper Wang	Approved By / John Yeh
		

Date: Jan. 07, 2025

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## Revision History

**Note:**

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

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## 1 GENERAL INFORMATION

### 1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

IEC/IEEE 62209-1528:2020

SPEAG DASY6 System Handbook

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

IEC TR 63170:2018

IEC 62479:2010

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## 1.2 Description of EUT

EUT Description	Wireless module installed in Notebook Computer	
Brand Name		
Model No.	BE200D2W	
FCC ID	HLZBE200D2	
Host Model Number:	N25Q9	
Duty Cycle	WLAN802.11	Please refer to section 7
	Bluetooth	Please refer to section 7
Supported radios (TX Frequency Range, MHz)	802.11 b/g/n/ax/be	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax/be	5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 5.9GHz (5850.0 – 5895.0 MHz)
	802.11ax/be	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)

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### 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)	0.26	N/A	N/A
2.4G WLAN	1.11	N/A	N/A
5G WLAN	1.1	N/A	N/A
6G WLAN	0.97	5.7	4.9

### 1.4 Antenna Information

#### Laptop mode\_WLAN

Antenna	Main									
Part Number	02036675-08191									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.84	2.45	2.96	2.55	2.47	2.23	2.22	2.33	2.69	2.57
Antenna	Aux									
Part Number	02036675-08192									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.59	2.39	2.79	1.94	2.33	2.55	2.43	2.49	2.88	2.78

Note: Antenna information is provided by the applicant.

#### Tablet mode\_WLAN

Antenna	Main									
Part Number	02036675-08191									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.50	1.13	2.34	2.92	2.09	1.77	2.73	1.23	1.96	1.36
Antenna	Aux									
Part Number	02036675-08192									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.18	-0.40	-0.13	1.98	2.51	2.48	2.97	2.90	2.88	2.13

Note: Antenna information is provided by the applicant.

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## 2 MEASUREMENT SYSTEM

### 2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier	
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City, 11493, Taiwan.	SAR 2	TW0029	TW3702	
		SAR 6			
		SAR 8			
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	TW0028		
		SAR 4			
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	TW0027		
		SAR 7			

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

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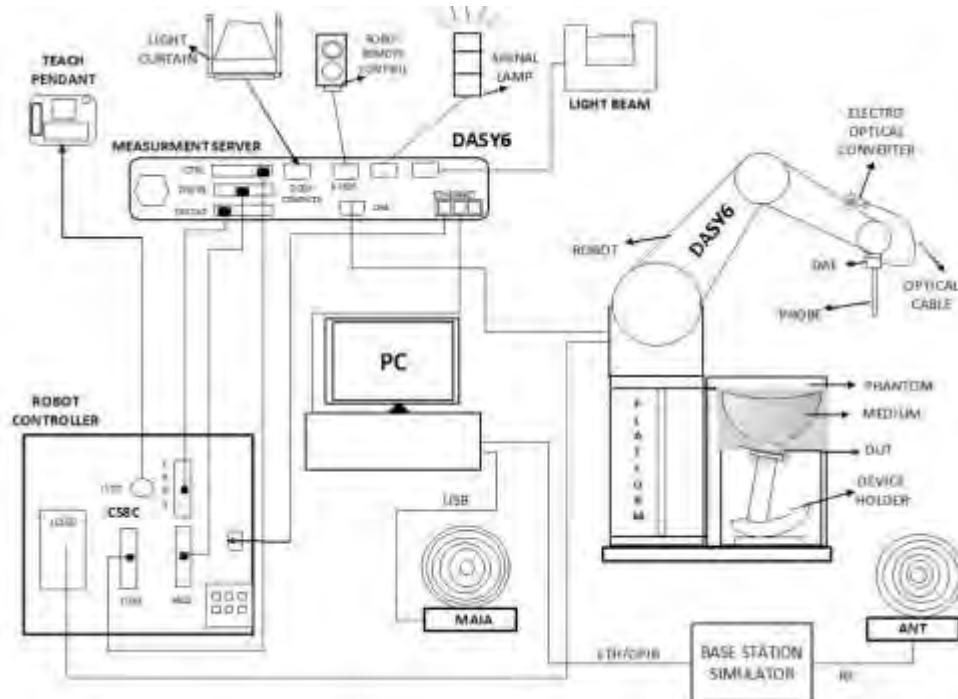
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## 2.2 SAR System

### Block Diagram (DASY6)

The DASY system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Windows 10 and the DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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**EX3DV4 E-Field Probe**

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)		
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450/5250/5600/5750/5850/6500/7000 MHz Additional CF for other liquids and frequencies upon request		
Frequency	10 MHz to > 6 GHz		
Directivity	$\pm 0.3$ dB in HSL (rotation around probe axis) $\pm 0.5$ dB in tissue material (rotation normal to probe axis)		
Dynamic Range	10 $\mu$ W/g to > 100 mW/g Linearity: $\pm 0.2$ dB (noise: typically < 1 $\mu$ W/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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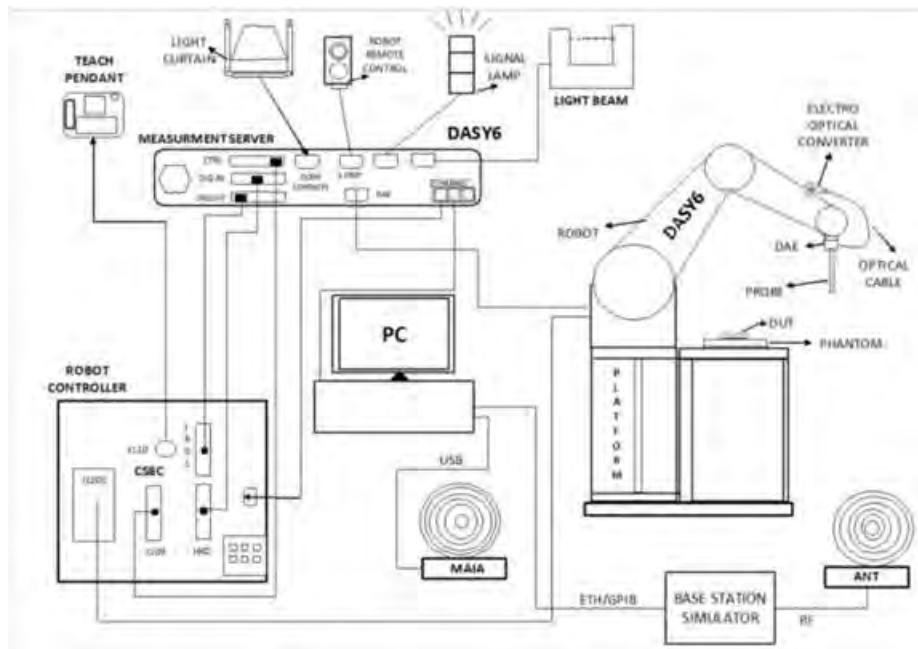
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## 2.3 PD system

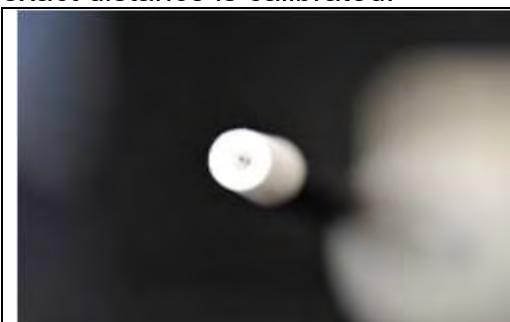
## Block Diagram (DASY6)

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

### mmWave Phantom

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

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### 3 SAR SYSTEM VERIFICATION

#### 3.1 Tissue Simulating Liquid

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

#### 3.2 Tissue Simulant Liquid measurement

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

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

#### 3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Limit	Measurement Date
2402	39.296	1.758	39.835	1.822	1.37%	3.62%	$\pm 5\%$	Nov. 24, 2024
2412	39.276	1.767	39.818	1.831	1.38%	3.62%	$\pm 5\%$	
2417	39.266	1.771	39.809	1.835	1.38%	3.59%	$\pm 5\%$	
2437	39.226	1.789	39.773	1.853	1.39%	3.59%	$\pm 5\%$	
2441	39.218	1.792	39.766	1.856	1.40%	3.56%	$\pm 5\%$	
2450	39.200	1.800	39.750	1.864	1.40%	3.56%	$\pm 5\%$	
2457	39.191	1.807	39.741	1.871	1.40%	3.52%	$\pm 5\%$	
2462	39.184	1.813	39.735	1.875	1.41%	3.43%	$\pm 5\%$	
2480	39.160	1.832	39.712	1.892	1.41%	3.28%	$\pm 5\%$	
5180	36.020	4.639	36.559	4.732	1.50%	2.00%	$\pm 5\%$	Nov. 25, 2024
5190	36.010	4.650	36.547	4.743	1.49%	2.01%	$\pm 5\%$	
5200	36.000	4.660	36.536	4.753	1.49%	2.00%	$\pm 5\%$	
5220	35.980	4.680	36.513	4.774	1.48%	2.01%	$\pm 5\%$	
5230	35.970	4.690	36.501	4.784	1.48%	2.00%	$\pm 5\%$	
5240	35.960	4.700	36.490	4.795	1.47%	2.02%	$\pm 5\%$	
5250	35.950	4.710	36.479	4.805	1.47%	2.02%	$\pm 5\%$	
5270	35.930	4.730	36.456	4.826	1.46%	2.03%	$\pm 5\%$	
5290	35.910	4.750	36.433	4.847	1.46%	2.04%	$\pm 5\%$	
5310	35.890	4.770	36.410	4.868	1.45%	2.05%	$\pm 5\%$	
5510	35.635	4.976	36.181	5.078	1.53%	2.06%	$\pm 5\%$	
5530	35.605	4.997	36.159	5.099	1.56%	2.05%	$\pm 5\%$	
5550	35.575	5.018	36.136	5.120	1.58%	2.04%	$\pm 5\%$	
5570	35.545	5.039	36.113	5.140	1.60%	2.01%	$\pm 5\%$	
5590	35.515	5.060	36.090	5.161	1.62%	2.01%	$\pm 5\%$	
5600	35.500	5.070	36.079	5.171	1.63%	1.99%	$\pm 5\%$	
5610	35.490	5.080	36.067	5.182	1.63%	2.01%	$\pm 5\%$	
5670	35.430	5.140	35.999	5.244	1.61%	2.02%	$\pm 5\%$	

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5690	35.410	5.160	35.976	5.265	1.60%	2.03%	± 5%	Nov. 26, 2024
5710	35.390	5.180	35.953	5.286	1.59%	2.05%	± 5%	
5750	35.350	5.220	35.907	5.328	1.58%	2.07%	± 5%	
5755	35.345	5.225	35.901	5.333	1.57%	2.07%	± 5%	
5775	35.325	5.245	35.879	5.354	1.57%	2.08%	± 5%	
5795	35.305	5.265	35.856	5.375	1.56%	2.09%	± 5%	
5815	35.285	5.286	35.833	5.396	1.55%	2.09%	± 5%	
5850	35.250	5.323	35.793	5.432	1.54%	2.06%	± 5%	
5855	35.245	5.328	35.787	5.438	1.54%	2.07%	± 5%	
5985	35.115	5.464	35.639	5.574	1.49%	2.01%	± 5%	
6105	34.974	5.604	35.495	5.701	1.49%	1.73%	± 5%	Nov. 27, 2024
6145	34.926	5.651	35.447	5.743	1.49%	1.63%	± 5%	
6265	34.782	5.793	35.303	5.871	1.50%	1.35%	± 5%	
6385	34.638	5.934	35.159	5.999	1.50%	1.09%	± 5%	
6425	34.590	5.982	35.111	6.042	1.51%	1.01%	± 5%	
6465	34.542	6.029	35.063	6.085	1.51%	0.93%	± 5%	
6500	34.500	6.070	35.021	6.122	1.51%	0.86%	± 5%	
6505	34.494	6.076	35.015	6.128	1.51%	0.86%	± 5%	
6545	34.446	6.122	34.967	6.171	1.51%	0.80%	± 5%	
6585	34.398	6.169	34.919	6.214	1.51%	0.74%	± 5%	
6625	34.350	6.215	34.871	6.257	1.52%	0.68%	± 5%	
6665	34.302	6.261	34.823	6.300	1.52%	0.62%	± 5%	
6705	34.254	6.308	34.775	6.344	1.52%	0.57%	± 5%	
6745	34.206	6.354	34.727	6.387	1.52%	0.52%	± 5%	
6785	34.158	6.401	34.679	6.430	1.53%	0.46%	± 5%	
6825	34.110	6.447	34.631	6.474	1.53%	0.42%	± 5%	
6905	34.014	6.540	34.535	6.561	1.53%	0.32%	± 5%	
7000	33.900	6.650	34.421	6.665	1.54%	0.23%	± 5%	

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

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

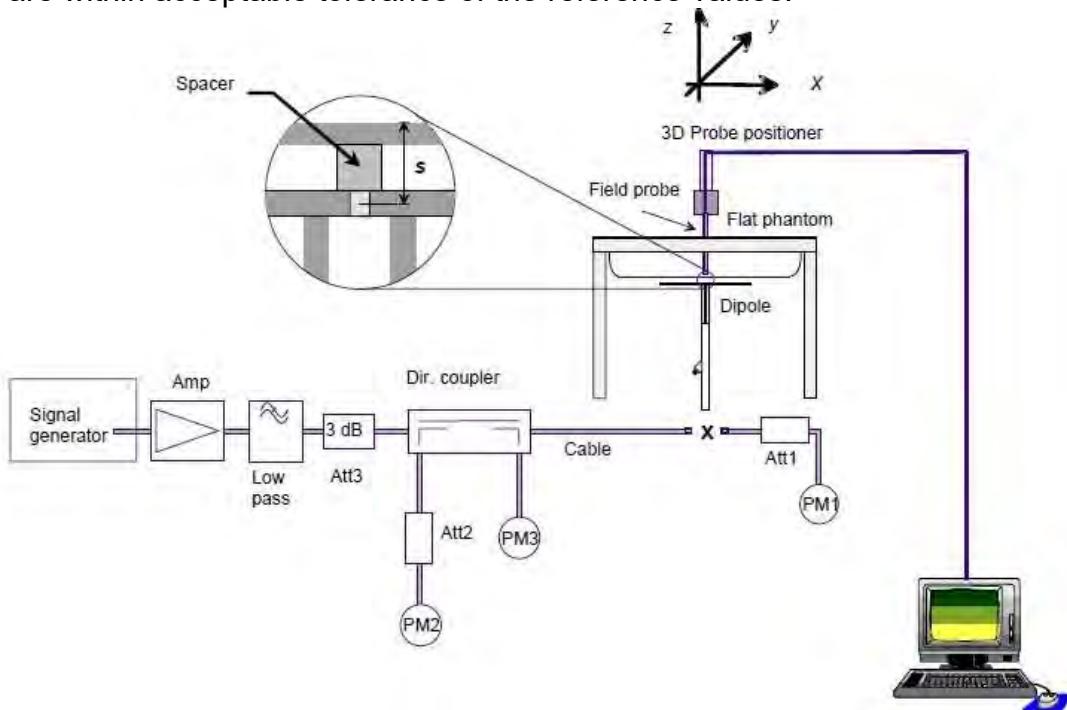
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

### 3.5 System check

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

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

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



The block diagram of system check

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### 3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	728	2450	52.7	12.9	51.6	-2.09	± 10%	Nov.24,2024
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	78.8	7.92	79.2	0.51	± 10%	Nov.25,2024
D5GHzV2	1023	5600	81.3	8.09	80.9	-0.49	± 10%	Nov.25,2024
D5GHzV2	1023	5750	78	7.95	79.5	1.92	± 10%	Nov.26,2024
D5GHzV2	1023	5850	78.6	7.98	79.8	1.53	± 10%	Nov.26,2024
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	297	29.3	293	-1.35	± 10%	Nov.27,2024
D7GHzV2	1007	7000	286	27.9	279	-2.45	± 10%	Nov.27,2024

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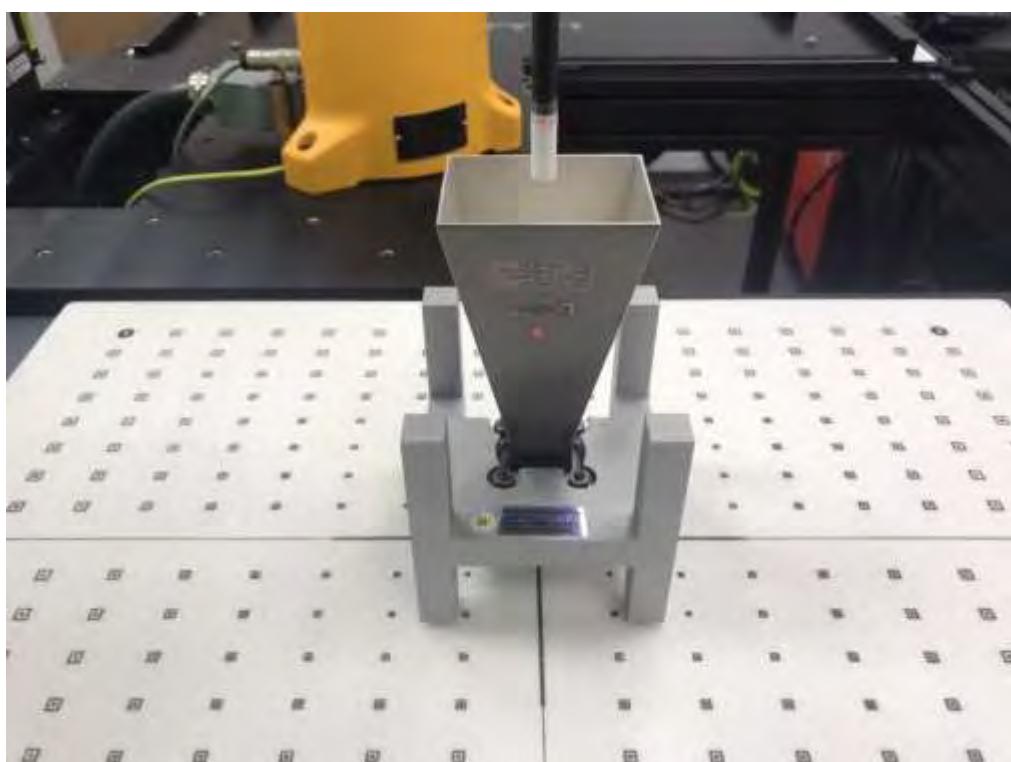
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## 4 PD SYSTEM VERIFICATION

### 4.1 System check

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

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



System Verification Setup Photo

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## 4.2 System check result

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

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm <sup>2</sup> (W/m <sup>2</sup> )	Target 4cm <sup>2</sup> (W/m <sup>2</sup> )	Deviation (dB)	Date
10000	10000	9635	1260	10	93.3	49.5	56.2	-0.55	Nov.28,2024

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## 5 TEST CONFIGURATIONS

### 5.1 Test Environment

Ambient Temperature:  $22\pm2^\circ\text{C}$

Tissue Simulating Liquid:  $22\pm2^\circ\text{C}$

### 5.2 Test Note

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

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

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

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

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

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

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

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### 5.3 Test position

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

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

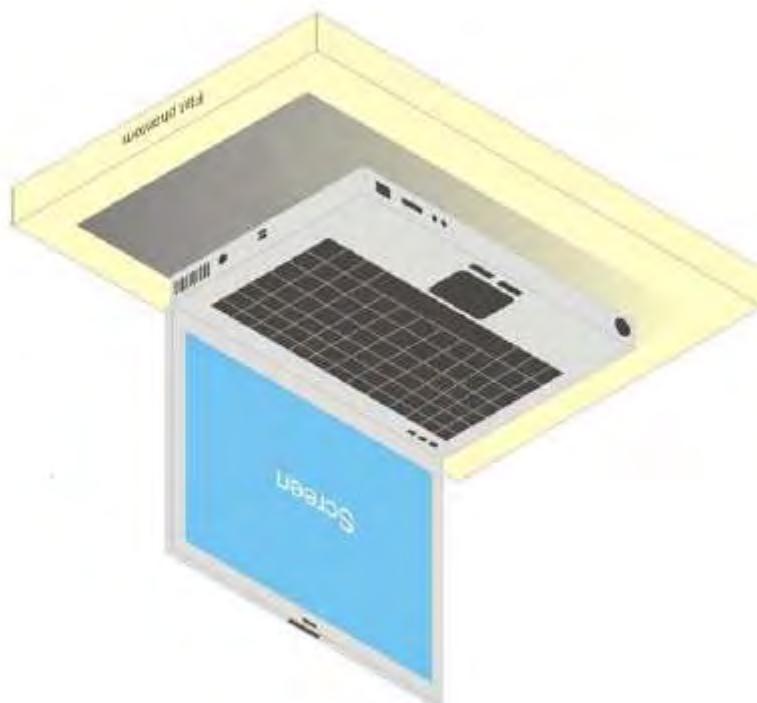


Illustration for Laptop Setup

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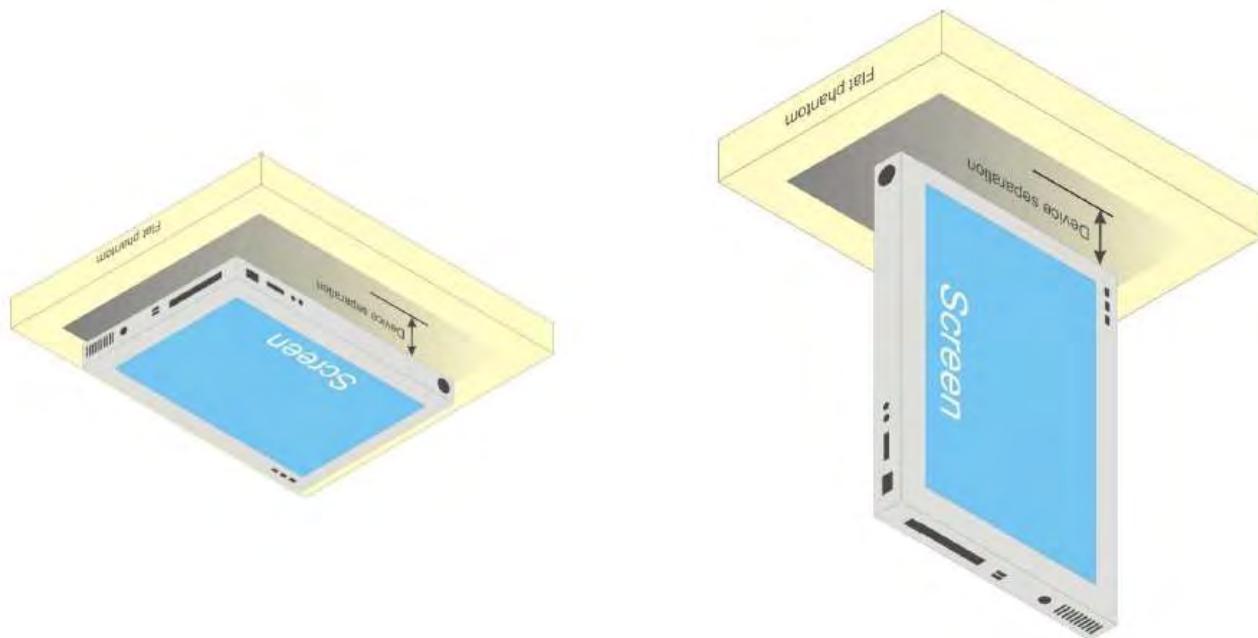
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**Tablet mode SAR test position (0mm)**

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

**Illustration for Tablet Setup**

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## 5.4 Power verification of device mode

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

### Results and conclusion

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

### Device mode verification by power measurement

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## 5.5 Test limit

### § 2.1093(d)(1)

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

Radiofrequency radiation exposure limits.

### § 1.1310(a)

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

### § 1.1310(b)

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

### § 1.1310(c)

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

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5, copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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

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

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

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm<sup>2</sup> per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
-----------------------	-------------------------------	-------------------------------	-------------------------------------	--------------------------

## (i) Limits for Occupational/Controlled Exposure

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

## (ii) Limits for General Population/Uncontrolled Exposure

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

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

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

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## 6 MAXIMUM OUTPUT POWER

### 6.1 WLAN

#### Notebook mode

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	20.00	19.98
		6	2437		23.00	21.48
		11	2462		23.00	21.64
	802.11g	1	2412	6Mbps	21.50	21.38
		6	2437		22.00	21.44
		11	2462		22.00	21.31
	802.11n20-HT0	1	2412	MCS0	21.50	21.40
		6	2437		22.00	21.35
		11	2462		22.00	21.31
	802.11ax20-HE0	1	2412	MCS0	21.50	21.31
		6	2437		22.00	21.41
		11	2462		22.00	21.44
	802.11be20-EHT0	1	2412	MCS0	21.50	21.25
		6	2437		22.00	21.35
		11	2462		22.00	21.40
	802.11n40-HT0	3	2422	MCS0	20.50	20.34
		6	2437		21.00	20.77
		9	2452		20.00	19.75
	802.11ax40-HE0	3	2422	MCS0	20.00	19.74
		6	2437		20.50	20.28
		9	2452		20.50	20.35
	802.11be40-EHT0	3	2422	MCS0	20.00	19.80
		6	2437		20.50	20.25
		9	2452		20.50	20.30

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	21.50	21.23
		40	5200		21.50	21.21
		44	5220		21.50	21.12
		48	5240		21.50	21.11
	802.11n20-HT0	36	5180	MCS0	21.75	21.65
		40	5200		21.75	21.68
		44	5220		21.75	21.67
		48	5240		21.75	21.62
	802.11ax20-HE0	36	5180	MCS0	21.75	21.37
		40	5200		21.75	21.48
		44	5220		21.75	21.39
		48	5240		21.75	21.47
	802.11be20-EHT0	36	5180	MCS0	21.75	21.54
		40	5200		21.75	21.45
		44	5220		21.75	21.41
		48	5240		21.75	21.50
	802.11n40-HT0	38	5190	MCS0	19.00	18.66
		46	5230		21.00	20.67
	802.11ax40-HE0	38	5190	MCS0	19.50	19.16
		46	5230		21.50	21.23
	802.11be40-EHT0	38	5190	MCS0	19.50	19.29
		46	5230		21.50	21.29
	802.11ac80-VHT0	42	5210	MCS0	20.00	19.75
	802.11ax80-HE0	42	5210	MCS0	19.75	19.37
	802.11be80-EHT0	42	5210	MCS0	19.75	19.52
	802.11ac160-VHT0	50	5250	MCS0	17.50	17.26
	802.11ax160-HE0	50	5250	MCS0	18.75	18.53
	802.11be160-EHT0	50	5250	MCS0	18.75	18.41

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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	21.00	20.79
		56	5280		21.00	20.77
		60	5300		21.00	20.68
		64	5320		21.00	20.70
	802.11n20-HT0	52	5260	MCS0	21.00	20.62
		56	5280		21.00	20.70
		60	5300		21.00	20.72
		64	5320		21.00	20.62
	802.11ax20-HE0	52	5260	MCS0	21.00	20.77
		56	5280		21.00	20.71
		60	5300		21.00	20.67
		64	5320		21.00	20.75
	802.11be20-EHT0	52	5260	MCS0	21.00	20.75
		56	5280		21.00	20.76
		60	5300		21.00	20.67
		64	5320		21.00	20.76
	802.11n40-HT0	54	5270	MCS0	21.00	20.85
		62	5310		19.50	19.47
	802.11ax40-HE0	54	5270	MCS0	21.00	20.76
		62	5310		19.50	19.17
	802.11be40-EHT0	54	5270	MCS0	21.00	20.72
		62	5310		19.50	19.16
	802.11ac80-VHT0	58	5290	MCS0	19.00	18.67
	802.11ax80-HE0	58	5290	MCS0	19.00	18.63
	802.11be80-EHT0	58	5290	MCS0	19.00	18.77

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	20.50	20.25
		120	5600		20.50	20.43
		140	5700		20.50	20.38
	802.11n20-HT0	100	5500	MCS0	20.50	20.43
		120	5600		20.50	20.42
		140	5700		20.50	20.32
	802.11ax20-HE0	100	5500	MCS0	20.50	20.33
		120	5600		20.50	20.31
		140	5700		20.50	20.32
	802.11be20-EHT0	100	5500	MCS0	20.50	20.34
		120	5600		20.50	20.42
		140	5700		20.50	20.25
	802.11n40-HT0	102	5510	MCS0	20.50	20.38
		118	5590		20.50	20.31
		134	5670		20.50	20.36
		142	5710		20.50	20.23
	802.11ax40-HE0	102	5510	MCS0	20.50	20.31
		118	5590		20.50	20.33
		134	5670		20.50	20.30
		142	5710		20.50	20.30
	802.11be40-EHT0	102	5510	MCS0	20.50	20.25
		118	5590		20.50	20.42
		134	5670		20.50	20.36
		142	5710		20.50	20.39
	802.11ac80-VHT0	106	5530	MCS0	20.00	19.99
		122	5610		20.50	20.47
		138	5690		20.50	20.49
	802.11ax80-HE0	106	5530	MCS0	20.50	20.30
		122	5610		20.50	20.39
		138	5690		20.50	20.23
	802.11be80-EHT0	106	5530	MCS0	20.50	20.26
		122	5610		20.50	20.34
		138	5690		20.50	20.37
	802.11ac160-VHT0	114	5570	MCS0	18.00	17.84
	802.11ax160-HE0	114	5570	MCS0	19.75	19.66
	802.11be160-EHT0	114	5570	MCS0	19.75	19.50

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Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	20.00	19.74
		157	5785		20.00	19.79
		165	5825		20.00	19.90
	802.11n20-HT0	149	5745	MCS0	20.00	19.88
		157	5785		20.00	19.90
		165	5825		20.00	19.88
	802.11ax20-HE0	149	5745	MCS0	20.00	19.78
		157	5785		20.00	19.91
		165	5825		20.00	19.78
	802.11be20-EHT0	149	5745	MCS0	20.00	19.92
		157	5785		20.00	19.82
		165	5825		20.00	19.77
	802.11n40-HT0	151	5755	MCS0	20.00	19.85
		159	5795		20.00	19.76
	802.11ax40-HE0	151	5755	MCS0	20.00	19.92
		159	5795		20.00	19.87
	802.11be40-EHT0	151	5755	MCS0	20.00	19.83
		159	5795		20.00	19.89
	802.11ac80-VHT0	155	5775	MCS0	20.00	19.95
	802.11ax80-HE0	155	5775	MCS0	20.00	19.84
	802.11be80-EHT0	155	5775	MCS0	20.00	19.92

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Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	19.50	19.33
		173	5865		19.50	19.30
		177	5885		19.50	19.28
	802.11n20-HT0	169	5845	MCS0	19.50	19.33
		173	5865		19.75	19.48
		177	5885		19.75	19.67
	802.11ac20-VHT0	169	5845	MCS0	20.00	19.76
		173	5865		20.00	19.82
		177	5885		17.75	17.63
	802.11ax20-HE0	169	5845	MCS0	20.00	19.85
		173	5865		20.00	19.90
		177	5885		17.75	17.66
	802.11n40-HT0	167	5835	MCS0	20.00	19.78
		175	5875		20.00	19.89
	802.11ax40-HE0	167	5835	MCS0	20.00	19.92
		175	5875		20.00	19.85
	802.11be40-EHT0	167	5835	MCS0	20.00	19.76
		175	5875		20.00	19.90
	802.11ac80-VHT0	171	5855	MCS0	20.00	19.97
	802.11ax80-HE0	171	5855	MCS0	20.00	19.87
	802.11be80-EHT0	171	5855	MCS0	20.00	19.81
	802.11ac160-VHT0	163	5815	MCS0	19.75	19.53
	802.11ax160-HE0	163	5815	MCS0	19.00	18.81
	802.11be160-EHT0	163	5815	MCS0	19.00	18.86

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	20.00	19.91
		6	2437		22.50	20.58
		11	2462		22.00	20.28
	802.11g	1	2412	6Mbps	20.00	19.77
		6	2437		21.50	20.27
		11	2462		20.50	20.14
	802.11n20-HT0	1	2412	MCS0	20.00	19.86
		6	2437		21.00	20.18
		11	2462		20.00	19.85
	802.11ax20-HE0	1	2412	MCS0	20.50	20.10
		6	2437		20.75	20.26
		11	2462		20.00	19.84
	802.11be20-EHT0	1	2412	MCS0	20.50	20.20
		6	2437		20.75	20.11
		11	2462		20.00	19.82
	802.11n40-HT0	3	2422	MCS0	19.00	18.84
		6	2437		19.50	19.25
		9	2452		19.50	19.27
	802.11ax40-HE0	3	2422	MCS0	19.50	19.28
		6	2437		19.50	19.33
		9	2452		19.50	19.24
	802.11be40-EHT0	3	2422	MCS0	19.50	19.39
		6	2437		19.50	19.27
		9	2452		19.50	19.38

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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	21.50	21.02
		40	5200		21.50	21.11
		44	5220		21.50	21.05
		48	5240		21.50	21.05
	802.11n20-HT0	36	5180	MCS0	21.75	21.05
		40	5200		21.75	21.08
		44	5220		21.75	20.97
		48	5240		21.75	20.96
	802.11ax20-HE0	36	5180	MCS0	21.75	21.05
		40	5200		21.75	21.13
		44	5220		21.75	21.10
		48	5240		21.75	21.03
	802.11be20-EHT0	36	5180	MCS0	21.75	20.96
		40	5200		21.75	21.10
		44	5220		21.75	21.04
		48	5240		21.75	21.00
	802.11n40-HT0	38	5190	MCS0	21.00	20.21
		46	5230		21.75	21.18
	802.11ax40-HE0	38	5190	MCS0	20.50	20.31
		46	5230		21.50	21.09
	802.11be40-EHT0	38	5190	MCS0	20.50	20.30
		46	5230		21.50	21.03
	802.11ac80-VHT0	42	5210	MCS0	21.00	20.84
	802.11ax80-HE0	42	5210	MCS0	20.75	20.53
	802.11be80-EHT0	42	5210	MCS0	20.75	20.55
	802.11ac160-VHT0	50	5250	MCS0	19.50	19.24
	802.11ax160-HE0	50	5250	MCS0	18.25	18.08
	802.11be160-EHT0	50	5250	MCS0	18.25	18.03

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	21.50	21.32
		56	5280		21.50	21.29
		60	5300		21.50	21.32
		64	5320		21.50	21.33
	802.11n20-HT0	52	5260	MCS0	21.50	21.34
		56	5280		21.50	21.36
		60	5300		21.50	21.29
		64	5320		21.50	21.38
	802.11ax20-HE0	52	5260	MCS0	21.50	21.21
		56	5280		21.75	21.53
		60	5300		21.75	21.47
		64	5320		22.00	21.35
	802.11be20-EHT0	52	5260	MCS0	21.50	21.21
		56	5280		21.75	21.50
		60	5300		21.75	21.53
		64	5320		22.00	21.46
	802.11n40-HT0	54	5270	MCS0	22.50	21.67
		62	5310		20.25	20.23
	802.11ax40-HE0	54	5270	MCS0	22.25	21.35
		62	5310		20.25	20.02
	802.11be40-EHT0	54	5270	MCS0	22.25	21.33
		62	5310		20.25	20.04
	802.11ac80-VHT0	58	5290	MCS0	19.50	19.38
	802.11ax80-HE0	58	5290	MCS0	20.00	19.74
	802.11be80-EHT0	58	5290	MCS0	20.00	19.84

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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	21.25	21.16
		120	5600		21.25	21.03
		140	5700		21.25	21.17
	802.11n20-HT0	100	5500	MCS0	21.50	21.40
		120	5600		21.50	21.43
		140	5700		21.50	21.37
	802.11ax20-HE0	100	5500	MCS0	21.75	21.49
		120	5600		21.50	21.29
		140	5700		21.50	21.29
	802.11be20-EHT0	100	5500	MCS0	21.75	21.48
		120	5600		21.50	21.34
		140	5700		21.50	21.33
	802.11n40-HT0	102	5510	MCS0	21.75	21.67
		118	5590		23.00	22.66
		134	5670		22.00	21.97
		142	5710		22.50	22.45
	802.11ax40-HE0	102	5510	MCS0	21.75	21.52
		118	5590		23.00	22.42
		134	5670		22.00	21.84
		142	5710		22.00	21.76
	802.11be40-EHT0	102	5510	MCS0	21.75	21.50
		118	5590		23.00	22.31
		134	5670		22.00	21.82
		142	5710		22.00	21.84
	802.11ac80-VHT0	106	5530	MCS0	21.25	21.00
		122	5610		22.00	21.87
		138	5690		21.25	21.09
	802.11ax80-HE0	106	5530	MCS0	21.75	21.57
		122	5610		22.50	22.42
		138	5690		21.75	21.60
	802.11be80-EHT0	106	5530	MCS0	21.75	21.65
		122	5610		22.50	22.30
		138	5690		21.75	21.50
	802.11ac160-VHT0	114	5570	MCS0	19.00	18.82
	802.11ax160-HE0	114	5570	MCS0	19.00	18.86
	802.11be160-EHT0	114	5570	MCS0	19.00	18.81

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Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	22.00	21.88
		157	5785		22.00	21.80
		165	5825		22.00	21.82
	802.11n20-HT0	149	5745	MCS0	22.00	21.75
		157	5785		22.00	21.92
		165	5825		22.00	21.75
	802.11ax20-HE0	149	5745	MCS0	22.00	21.79
		157	5785		22.00	21.76
		165	5825		22.00	21.77
	802.11be20-EHT0	149	5745	MCS0	22.00	21.92
		157	5785		22.00	21.88
		165	5825		22.00	21.91
	802.11n40-HT0	151	5755	MCS0	22.00	21.95
		159	5795		22.00	21.99
	802.11ax40-HE0	151	5755	MCS0	22.00	21.91
		159	5795		22.00	21.79
	802.11be40-EHT0	151	5755	MCS0	22.00	21.76
		159	5795		22.00	21.89
	802.11ac80-VHT0	155	5775	MCS0	21.25	21.05
	802.11ax80-HE0	155	5775	MCS0	21.75	21.53
	802.11be80-EHT0	155	5775	MCS0	21.75	21.57

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Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	19.75	19.54
		173	5865		19.50	19.29
		177	5885		19.50	19.34
	802.11n20-HT0	169	5845	MCS0	20.00	19.82
		173	5865		19.75	19.62
		177	5885		19.75	19.64
	802.11ac20-VHT0	169	5845	MCS0	20.00	19.76
		173	5865		20.00	19.85
		177	5885		17.50	17.25
	802.11ax20-HE0	169	5845	MCS0	20.00	19.89
		173	5865		20.00	19.76
		177	5885		17.50	17.31
	802.11n40-HT0	167	5835	MCS0	22.00	21.88
		175	5875		22.00	21.80
	802.11ax40-HE0	167	5835	MCS0	22.00	21.91
		175	5875		22.00	21.90
	802.11be40-EHT0	167	5835	MCS0	22.00	21.85
		175	5875		22.00	21.84
	802.11ac80-VHT0	171	5855	MCS0	22.00	21.95
	802.11ax80-HE0	171	5855	MCS0	22.00	21.83
	802.11be80-EHT0	171	5855	MCS0	22.00	21.84
	802.11ac160-VHT0	163	5815	MCS0	19.75	19.67
	802.11ax160-HE0	163	5815	MCS0	19.00	18.82
	802.11be160-EHT0	163	5815	MCS0	19.00	18.73

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## Tablet mode

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	18.50	18.45
		6	2437		18.50	18.49
		11	2462		18.50	18.42
	802.11g	1	2412	6Mbps	18.50	18.37
		6	2437		18.50	18.41
		11	2462		18.50	18.26
	802.11n20-HT0	1	2412	MCS0	18.50	18.28
		6	2437		18.50	18.40
		11	2462		18.50	18.38
	802.11ax20-HE0	1	2412	MCS0	18.50	18.28
		6	2437		18.50	18.27
		11	2462		18.50	18.26
	802.11be20-EHT0	1	2412	MCS0	18.50	18.24
		6	2437		18.50	18.41
		11	2462		18.50	18.39
	802.11n40-HT0	3	2422	MCS0	18.50	18.27
		6	2437		18.50	18.36
		9	2452		18.50	18.35
	802.11ax40-HE0	3	2422	MCS0	18.50	18.35
		6	2437		18.50	18.33
		9	2452		18.50	18.35
	802.11be40-EHT0	3	2422	MCS0	18.50	18.38
		6	2437		18.50	18.23
		9	2452		18.50	18.27

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	13.50	13.24
		40	5200		13.50	13.26
		44	5220		13.50	13.40
		48	5240		13.50	13.35
	802.11n20-HT0	36	5180	MCS0	13.50	13.30
		40	5200		13.50	13.33
		44	5220		13.50	13.37
		48	5240		13.50	13.36
	802.11ax20-HE0	36	5180	MCS0	13.50	13.27
		40	5200		13.50	13.39
		44	5220		13.50	13.24
		48	5240		13.50	13.28
	802.11be20-EHT0	36	5180	MCS0	13.50	13.36
		40	5200		13.50	13.38
		44	5220		13.50	13.29
		48	5240		13.50	13.25
	802.11n40-HT0	38	5190	MCS0	13.50	13.37
		46	5230		13.50	13.35
	802.11ax40-HE0	38	5190	MCS0	13.50	13.28
		46	5230		13.50	13.42
	802.11be40-EHT0	38	5190	MCS0	13.50	13.28
		46	5230		13.50	13.43
	802.11ac80-VHT0	42	5210	MCS0	13.50	13.42
	802.11ax80-HE0	42	5210	MCS0	13.50	13.42
	802.11be80-EHT0	42	5210	MCS0	13.50	13.28
	802.11ac160-VHT0	50	5250	MCS0	13.50	13.49
	802.11ax160-HE0	50	5250	MCS0	13.50	13.32
	802.11be160-EHT0	50	5250	MCS0	13.50	13.29

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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	13.00	12.85
		56	5280		13.00	12.82
		60	5300		13.00	12.75
		64	5320		13.00	12.92
	802.11n20-HT0	52	5260	MCS0	13.00	12.76
		56	5280		13.00	12.79
		60	5300		13.00	12.87
		64	5320		13.00	12.91
	802.11ax20-HE0	52	5260	MCS0	13.00	12.76
		56	5280		13.00	12.77
		60	5300		13.00	12.91
		64	5320		13.00	12.90
	802.11be20-EHT0	52	5260	MCS0	13.00	12.81
		56	5280		13.00	12.81
		60	5300		13.00	12.88
		64	5320		13.00	12.77
	802.11n40-HT0	54	5270	MCS0	13.00	12.79
		62	5310		13.00	12.91
	802.11ax40-HE0	54	5270	MCS0	13.00	12.78
		62	5310		13.00	12.86
	802.11be40-EHT0	54	5270	MCS0	13.00	12.86
		62	5310		13.00	12.90
	802.11ac80-VHT0	58	5290	MCS0	13.00	12.99
	802.11ax80-HE0	58	5290	MCS0	13.00	12.77
	802.11be80-EHT0	58	5290	MCS0	13.00	12.80

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5.6GHz	802.11a	100	5500	6Mbps	13.50	13.42
		120	5600		13.50	13.34
		140	5700		13.50	13.38
	802.11n20-HT0	100	5500	MCS0	13.50	13.42
		120	5600		13.50	13.35
		140	5700		13.50	13.35
	802.11ax20-HE0	100	5500	MCS0	13.50	13.36
		120	5600		13.50	13.39
		140	5700		13.50	13.32
	802.11be20-EHT0	100	5500	MCS0	13.50	13.38
		120	5600		13.50	13.42
		140	5700		13.50	13.31
	802.11n40-HT0	102	5510	MCS0	13.50	13.30
		118	5590		13.50	13.36
		134	5670		13.50	13.26
		142	5710		13.50	13.27
	802.11ax40-HE0	102	5510	MCS0	13.50	13.35
		118	5590		13.50	13.39
		134	5670		13.50	13.30
		142	5710		13.50	13.33
	802.11be40-EHT0	102	5510	MCS0	13.50	13.39
		118	5590		13.50	13.36
		134	5670		13.50	13.27
		142	5710		13.50	13.36
	802.11ac80-VHT0	106	5530	MCS0	13.50	13.48
		122	5610		13.50	13.45
		138	5690		13.50	13.49
	802.11ax80-HE0	106	5530	MCS0	13.50	13.40
		122	5610		13.50	13.41
		138	5690		13.50	13.38
	802.11be80-EHT0	106	5530	MCS0	13.50	13.24
		122	5610		13.50	13.25
		138	5690		13.50	13.37
	802.11ac160-VHT0	114	5570	MCS0	13.50	13.49
	802.11ax160-HE0	114	5570	MCS0	13.50	13.28
	802.11be160-EHT0	114	5570	MCS0	13.50	13.29

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Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	14.00	13.74
		157	5785		14.00	13.73
		165	5825		14.00	13.87
	802.11n20-HT0	149	5745	MCS0	14.00	13.77
		157	5785		14.00	13.89
		165	5825		14.00	13.79
	802.11ax20-HE0	149	5745	MCS0	14.00	13.83
		157	5785		14.00	13.80
		165	5825		14.00	13.73
	802.11be20-EHT0	149	5745	MCS0	14.00	13.91
		157	5785		14.00	13.83
		165	5825		14.00	13.83
	802.11n40-HT0	151	5755	MCS0	14.00	13.80
		159	5795		14.00	13.85
	802.11ax40-HE0	151	5755	MCS0	14.00	13.92
		159	5795		14.00	13.77
	802.11be40-EHT0	151	5755	MCS0	14.00	13.87
		159	5795		14.00	13.78
	802.11ac80-VHT0	155	5775	MCS0	14.00	13.92
	802.11ax80-HE0	155	5775	MCS0	14.00	13.77
	802.11be80-EHT0	155	5775	MCS0	14.00	13.82

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Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	13.50	13.32
		173	5865		13.50	13.38
		177	5885		13.50	13.40
	802.11n20-HT0	169	5845	MCS0	13.50	13.35
		173	5865		13.50	13.39
		177	5885		13.50	13.31
	802.11ac20-VHT0	169	5845	MCS0	13.50	13.26
		173	5865		13.50	13.42
		177	5885		13.50	13.42
	802.11ax20-HE0	169	5845	MCS0	13.50	13.40
		173	5865		13.50	13.37
		177	5885		13.50	13.39
	802.11n40-HT0	167	5835	MCS0	13.50	13.40
		175	5875		13.50	13.31
	802.11ax40-HE0	167	5835	MCS0	13.50	13.35
		175	5875		13.50	13.36
	802.11be40-EHT0	167	5835	MCS0	13.50	13.29
		175	5875		13.50	13.34
	802.11ac80-VHT0	171	5855	MCS0	13.50	13.43
	802.11ax80-HE0	171	5855	MCS0	13.50	13.29
	802.11be80-EHT0	171	5855	MCS0	13.50	13.35
	802.11ac160-VHT0	163	5815	MCS0	13.50	13.49
	802.11ax160-HE0	163	5815	MCS0	13.50	13.36
	802.11be160-EHT0	163	5815	MCS0	13.50	13.37

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	20.00	19.91
		6	2437		21.50	19.92
		11	2462		21.50	19.90
	802.11g	1	2412	6Mbps	20.00	19.73
		6	2437		21.50	19.88
		11	2462		20.50	19.80
	802.11n20-HT0	1	2412	MCS0	20.00	19.72
		6	2437		21.00	19.73
		11	2462		20.00	19.69
	802.11ax20-HE0	1	2412	MCS0	20.50	19.74
		6	2437		20.75	19.81
		11	2462		20.00	19.77
	802.11be20-EHT0	1	2412	MCS0	20.50	19.68
		6	2437		20.75	19.67
		11	2462		20.00	19.79
	802.11n40-HT0	3	2422	MCS0	19.00	18.86
		6	2437		19.50	19.28
		9	2452		19.50	19.27
	802.11ax40-HE0	3	2422	MCS0	19.50	19.32
		6	2437		19.50	19.30
		9	2452		19.50	19.27
	802.11be40-EHT0	3	2422	MCS0	19.50	19.34
		6	2437		19.50	19.24
		9	2452		19.50	19.33

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	14.00	13.76
		40	5200		14.00	13.89
		44	5220		14.00	13.90
		48	5240		14.00	13.81
	802.11n20-HT0	36	5180	MCS0	14.00	13.93
		40	5200		14.00	13.73
		44	5220		14.00	13.79
		48	5240		14.00	13.81
	802.11ax20-HE0	36	5180	MCS0	14.00	13.76
		40	5200		14.00	13.84
		44	5220		14.00	13.83
		48	5240		14.00	13.78
	802.11be20-EHT0	36	5180	MCS0	14.00	13.73
		40	5200		14.00	13.79
		44	5220		14.00	13.86
		48	5240		14.00	13.93
	802.11n40-HT0	38	5190	MCS0	14.00	13.81
		46	5230		14.00	13.80
	802.11ax40-HE0	38	5190	MCS0	14.00	13.78
		46	5230		14.00	13.81
	802.11be40-EHT0	38	5190	MCS0	14.00	13.76
		46	5230		14.00	13.93
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.80
	802.11ax80-HE0	42	5210	MCS0	14.00	13.78
	802.11be80-EHT0	42	5210	MCS0	14.00	13.74
	802.11ac160-VHT0	50	5250	MCS0	14.00	13.98
	802.11ax160-HE0	50	5250	MCS0	14.00	13.81
	802.11be160-EHT0	50	5250	MCS0	14.00	13.81

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Aux						
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5.25-5.35 GHz	802.11a	52	5260	6Mbps	13.00	12.83
		56	5280		13.00	12.87
		60	5300		13.00	12.81
		64	5320		13.00	12.83
	802.11n20-HT0	52	5260	MCS0	13.00	12.84
		56	5280		13.00	12.82
		60	5300		13.00	12.78
		64	5320		13.00	12.77
	802.11ax20-HE0	52	5260	MCS0	13.00	12.74
		56	5280		13.00	12.73
		60	5300		13.00	12.89
		64	5320		13.00	12.73
	802.11be20-EHT0	52	5260	MCS0	13.00	12.87
		56	5280		13.00	12.87
		60	5300		13.00	12.87
		64	5320		13.00	12.74
	802.11n40-HT0	54	5270	MCS0	13.00	12.76
		62	5310		13.00	12.83
	802.11ax40-HE0	54	5270	MCS0	13.00	12.88
		62	5310		13.00	12.91
	802.11be40-EHT0	54	5270	MCS0	13.00	12.73
		62	5310		13.00	12.91
	802.11ac80-VHT0	58	5290	MCS0	13.00	12.98
	802.11ax80-HE0	58	5290	MCS0	13.00	12.90
	802.11be80-EHT0	58	5290	MCS0	13.00	12.80

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.00	13.74
		120	5600		14.00	13.88
		140	5700		14.00	13.83
	802.11n20-HT0	100	5500	MCS0	14.00	13.83
		120	5600		14.00	13.73
		140	5700		14.00	13.82
	802.11ax20-HE0	100	5500	MCS0	14.00	13.90
		120	5600		14.00	13.84
		140	5700		14.00	13.88
	802.11be20-EHT0	100	5500	MCS0	14.00	13.79
		120	5600		14.00	13.74
		140	5700		14.00	13.81
	802.11n40-HT0	102	5510	MCS0	14.00	13.83
		118	5590		14.00	13.87
		134	5670		14.00	13.77
		142	5710		14.00	13.90
	802.11ax40-HE0	102	5510	MCS0	14.00	13.89
		118	5590		14.00	13.87
		134	5670		14.00	13.73
		142	5710		14.00	13.89
	802.11be40-EHT0	102	5510	MCS0	14.00	13.85
		118	5590		14.00	13.92
		134	5670		14.00	13.82
		142	5710		14.00	13.75
	802.11ac80-VHT0	106	5530	MCS0	14.00	13.96
		122	5610		14.00	13.94
		138	5690		14.00	13.95
	802.11ax80-HE0	106	5530	MCS0	14.00	13.89
		122	5610		14.00	13.86
		138	5690		14.00	13.85
	802.11be80-EHT0	106	5530	MCS0	14.00	13.85
		122	5610		14.00	13.82
		138	5690		14.00	13.81
	802.11ac160-VHT0	114	5570	MCS0	14.00	13.98
	802.11ax160-HE0	114	5570	MCS0	14.00	13.79
	802.11be160-EHT0	114	5570	MCS0	14.00	13.84

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Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	11.50	11.28
		157	5785		11.50	11.23
		165	5825		11.50	11.33
	802.11n20-HT0	149	5745	MCS0	11.50	11.34
		157	5785		11.50	11.38
		165	5825		11.50	11.29
	802.11ax20-HE0	149	5745	MCS0	11.50	11.39
		157	5785		11.50	11.26
		165	5825		11.50	11.34
	802.11be20-EHT0	149	5745	MCS0	11.50	11.27
		157	5785		11.50	11.36
		165	5825		11.50	11.29
	802.11n40-HT0	151	5755	MCS0	11.50	11.33
		159	5795		11.50	11.38
	802.11ax40-HE0	151	5755	MCS0	11.50	11.42
		159	5795		11.50	11.36
	802.11be40-EHT0	151	5755	MCS0	11.50	11.24
		159	5795		11.50	11.43
	802.11ac80-VHT0	155	5775	MCS0	11.50	11.48
	802.11ax80-HE0	155	5775	MCS0	11.50	11.26
	802.11be80-EHT0	155	5775	MCS0	11.50	11.35

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Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	11.50	11.31
		173	5865		11.50	11.39
		177	5885		11.50	11.42
	802.11n20-HT0	169	5845	MCS0	11.50	11.25
		173	5865		11.50	11.41
		177	5885		11.50	11.38
	802.11ac20-VHT0	169	5845	MCS0	11.50	11.28
		173	5865		11.50	11.25
		177	5885		11.50	11.38
	802.11ax20-HE0	169	5845	MCS0	11.50	11.36
		173	5865		11.50	11.35
		177	5885		11.50	11.27
	802.11n40-HT0	167	5835	MCS0	11.50	11.29
		175	5875		11.50	11.34
	802.11ax40-HE0	167	5835	MCS0	11.50	11.33
		175	5875		11.50	11.32
	802.11be40-EHT0	167	5835	MCS0	11.50	11.39
		175	5875		11.50	11.40
	802.11ac80-VHT0	171	5855	MCS0	11.50	11.41
	802.11ax80-HE0	171	5855	MCS0	11.50	11.29
	802.11be80-EHT0	171	5855	MCS0	11.50	11.35
	802.11ac160-VHT0	163	5815	MCS0	11.50	11.47
	802.11ax160-HE0	163	5815	MCS0	11.50	11.34
	802.11be160-EHT0	163	5815	MCS0	11.50	11.31

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## 6.2 WLAN 6GHz

### Notebook mode

Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	21.50	21.29
		45	6175		21.50	21.30
		93	6415		21.50	21.32
	802.11be20-EHT0	1	5955	MCS0	21.50	21.24
		45	6175		21.50	21.29
		93	6415		21.50	21.27
	802.11ax40-HE0	3	5965	MCS0	21.50	21.34
		43	6165		21.50	21.35
		91	6405		21.50	21.30
	802.11be40-EHT0	3	5965	MCS0	21.50	21.38
		43	6165		21.50	21.39
		91	6405		21.50	21.27
	802.11ax80-HE0	7	5985	MCS0	21.50	21.49
		39	6145		21.50	21.43
		87	6385		21.50	21.41
	802.11be80-EHT0	7	5985	MCS0	21.50	21.29
		39	6145		21.50	21.29
		87	6385		21.50	21.39
	802.11ax160-HE0	15	6025	MCS0	20.00	19.92
		47	6185		20.00	19.86
		79	6345		21.25	21.13
	802.11be160-EHT0	15	6025	MCS0	20.00	19.77
		47	6185		20.00	19.77
		79	6345		21.25	21.04
	802.11be320-EHT0	31	6105	MCS0	18.25	18.11
		63	6265		16.25	16.14

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	5.27
		105	6475		5.50	5.34
		113	6515		5.50	5.25
	802.11be20-EHT0	97	6435	MCS0	5.50	5.26
		105	6475		5.50	5.41
		113	6515		5.50	5.32
	802.11ax40-HE0	99	6445	MCS0	8.75	8.56
		107	6485		8.75	8.63
	802.11be40-EHT0	99	6445	MCS0	8.75	8.48
		107	6485		8.75	8.58
	802.11ax80-HE0	103	6465	MCS0	11.75	11.67
		119	6545		11.75	11.58
	802.11be80-EHT0	103	6465	MCS0	11.75	11.58
		119	6545		11.75	11.67
	802.11ax160-HE0	111	6505	MCS0	14.75	14.58
	802.11be160-EHT0	111	6505	MCS0	14.75	14.62
	802.11be320-EHT0	95	6425	MCS0	16.25	16.18

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	21.50	21.34
		149	6695		21.50	21.39
		181	6855		21.50	21.33
	802.11be20-EHT0	117	6535	MCS0	21.50	21.26
		149	6695		21.50	21.37
		181	6855		21.50	21.40
	802.11ax40-HE0	115	6525	MCS0	21.50	21.39
		147	6685		21.50	21.26
		179	6845		21.50	21.35
	802.11be40-EHT0	115	6525	MCS0	21.50	21.24
		147	6685		21.50	21.33
		179	6845		21.50	21.33
	802.11ax80-HE0	135	6625	MCS0	21.50	21.48
		151	6705		21.50	21.49
		167	6785		21.50	21.41
	802.11be80-EHT0	135	6625	MCS0	21.50	21.33
		151	6705		21.50	21.39
		167	6785		21.50	21.36
	802.11ax160-HE0	143	6665	MCS0	20.50	20.40
		175	6825		14.50	14.27
	802.11be160-EHT0	143	6665	MCS0	20.50	20.35
		175	6825		14.50	14.33
	802.11be320-EHT0	127	6585	MCS0	16.75	16.60
		159	6745		17.25	17.10

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Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	5.50	5.39
		209	6995		5.75	5.63
		233	7115		0.50	0.38
	802.11be20-EHT0	185	6875	MCS0	5.50	5.43
		209	6995		5.75	5.54
		233	7115		0.50	0.42
	802.11ax40-HE0	187	6885	MCS0	8.75	8.60
		227	7085		8.75	8.65
	802.11be40-EHT0	187	6885	MCS0	8.75	8.64
		227	7085		8.75	8.61
	802.11ax80-HE0	183	6865	MCS0	11.50	11.39
		199	6945		11.75	11.56
		215	7025		12.00	11.74
	802.11be80-EHT0	183	6865	MCS0	11.50	11.42
		199	6945		11.75	11.63
		215	7025		12.00	11.76
	802.11ax160-HE0	207	6985	MCS0	14.75	14.52
	802.11be160-EHT0	207	6985	MCS0	14.75	14.57
	802.11be320-EHT0	191	6905	MCS0	17.00	16.95

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	18.50	18.39
		45	6175		18.50	18.25
		93	6415		18.50	18.30
	802.11be20-EHT0	1	5955	MCS0	18.50	18.29
		45	6175		18.50	18.26
		93	6415		18.50	18.33
	802.11ax40-HE0	3	5965	MCS0	18.50	18.27
		43	6165		18.50	18.24
		91	6405		18.50	18.29
	802.11be40-EHT0	3	5965	MCS0	18.50	18.35
		43	6165		18.50	18.38
		91	6405		18.50	18.27
	802.11ax80-HE0	7	5985	MCS0	18.50	18.31
		39	6145		18.50	18.35
		87	6385		18.50	18.27
	802.11be80-EHT0	7	5985	MCS0	18.50	18.26
		39	6145		18.50	18.32
		87	6385		18.50	18.30
	802.11ax160-HE0	15	6025	MCS0	18.50	18.39
		47	6185		18.50	18.28
		79	6345		18.50	18.35
	802.11be160-EHT0	15	6025	MCS0	18.50	18.37
		47	6185		18.50	18.34
		79	6345		18.50	18.30
	802.11be320-EHT0	31	6105	MCS0	18.50	18.47
		63	6265		16.25	16.19

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	5.38
		105	6475		5.50	5.28
		113	6515		5.75	5.61
	802.11be20-EHT0	97	6435	MCS0	5.50	5.27
		105	6475		5.50	5.40
		113	6515		5.75	5.65
	802.11ax40-HE0	99	6445	MCS0	8.75	8.65
		107	6485		8.75	8.55
	802.11be40-EHT0	99	6445	MCS0	8.75	8.62
		107	6485		8.75	8.67
	802.11ax80-HE0	103	6465	MCS0	11.75	11.53
		119	6545		11.75	11.53
	802.11be80-EHT0	103	6465	MCS0	11.75	11.54
		119	6545		11.75	11.51
	802.11ax160-HE0	111	6505	MCS0	14.75	14.55
	802.11be160-EHT0	111	6505	MCS0	14.75	14.59
	802.11be320-EHT0	95	6425	MCS0	16.25	16.21

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	18.50	18.37
		149	6695		18.50	18.29
		181	6855		18.50	18.35
	802.11be20-EHT0	117	6535	MCS0	18.50	18.26
		149	6695		18.50	18.34
		181	6855		18.50	18.38
	802.11ax40-HE0	115	6525	MCS0	18.50	18.24
		147	6685		18.50	18.32
		179	6845		18.50	18.28
	802.11be40-EHT0	115	6525	MCS0	18.50	18.31
		147	6685		18.50	18.24
		179	6845		18.50	18.34
	802.11ax80-HE0	135	6625	MCS0	18.50	18.27
		151	6705		18.50	18.28
		167	6785		18.50	18.28
	802.11be80-EHT0	135	6625	MCS0	18.50	18.31
		151	6705		18.50	18.40
		167	6785		18.50	18.33
	802.11ax160-HE0	143	6665	MCS0	18.50	18.45
		175	6825		14.50	14.43
	802.11be160-EHT0	143	6665	MCS0	18.50	18.41
		175	6825		14.50	14.23
	802.11be320-EHT0	127	6585	MCS0	17.00	16.81
		159	6745		17.25	17.15

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Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	5.50	5.28
		209	6995		5.75	5.50
		233	7115		0.50	0.32
	802.11be20-EHT0	185	6875	MCS0	5.50	5.36
		209	6995		5.75	5.49
		233	7115		0.50	0.31
	802.11ax40-HE0	187	6885	MCS0	8.75	8.65
		227	7085		8.75	8.54
	802.11be40-EHT0	187	6885	MCS0	8.75	8.56
		227	7085		8.75	8.65
	802.11ax80-HE0	183	6865	MCS0	11.50	11.41
		199	6945		11.75	11.62
		215	7025		12.00	11.86
	802.11be80-EHT0	183	6865	MCS0	11.50	11.40
		199	6945		11.75	11.50
		215	7025		12.00	11.79
	802.11ax160-HE0	207	6985	MCS0	14.75	14.51
	802.11be160-EHT0	207	6985	MCS0	14.75	14.52
	802.11be320-EHT0	191	6905	MCS0	17.25	15.56

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## Tablet mode

Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	11.00	10.73
		45	6175		11.00	10.74
		93	6415		11.00	10.89
	802.11be20-EHT0	1	5955	MCS0	11.00	10.75
		45	6175		11.00	10.90
		93	6415		11.00	10.88
	802.11ax40-HE0	3	5965	MCS0	11.00	10.77
		43	6165		11.00	10.89
		91	6405		11.00	10.77
	802.11be40-EHT0	3	5965	MCS0	11.00	10.80
		43	6165		11.00	10.74
		91	6405		11.00	10.76
	802.11ax80-HE0	7	5985	MCS0	11.00	10.88
		39	6145		11.00	10.90
		87	6385		11.00	10.80
	802.11be80-EHT0	7	5985	MCS0	11.00	10.73
		39	6145		11.00	10.81
		87	6385		11.00	10.90
	802.11ax160-HE0	15	6025	MCS0	11.00	10.83
		47	6185		11.00	10.78
		79	6345		11.00	10.83
	802.11be160-EHT0	15	6025	MCS0	11.00	10.86
		47	6185		11.00	10.88
		79	6345		11.00	10.75
	802.11be320-EHT0	31	6105	MCS0	11.00	10.98
		63	6265		11.00	10.91

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	5.33
		105	6475		5.50	5.36
		113	6515		5.50	5.35
	802.11be20-EHT0	97	6435	MCS0	5.50	5.26
		105	6475		5.50	5.26
		113	6515		5.50	5.33
	802.11ax40-HE0	99	6445	MCS0	8.75	8.52
		107	6485		8.75	8.63
	802.11be40-EHT0	99	6445	MCS0	8.75	8.58
		107	6485		8.75	8.65
	802.11ax80-HE0	103	6465	MCS0	11.00	10.77
		119	6545		11.00	10.87
	802.11be80-EHT0	103	6465	MCS0	11.00	10.86
		119	6545		11.00	10.91
	802.11ax160-HE0	111	6505	MCS0	11.00	10.77
	802.11be160-EHT0	111	6505	MCS0	11.00	10.84
	802.11be320-EHT0	95	6425	MCS0	11.00	10.93

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	11.00	10.90
		149	6695		11.00	10.81
		181	6855		11.00	10.90
	802.11be20-EHT0	117	6535	MCS0	11.00	10.88
		149	6695		11.00	10.84
		181	6855		11.00	10.77
	802.11ax40-HE0	115	6525	MCS0	11.00	10.88
		147	6685		11.00	10.74
		179	6845		11.00	10.78
	802.11be40-EHT0	115	6525	MCS0	11.00	10.75
		147	6685		11.00	10.80
		179	6845		11.00	10.74
	802.11ax80-HE0	135	6625	MCS0	11.00	10.80
		151	6705		11.00	10.88
		167	6785		11.00	10.74
	802.11be80-EHT0	135	6625	MCS0	11.00	10.83
		151	6705		11.00	10.80
		167	6785		11.00	10.85
	802.11ax160-HE0	143	6665	MCS0	11.00	10.79
		175	6825		11.00	10.81
	802.11be160-EHT0	143	6665	MCS0	11.00	10.81
		175	6825		11.00	10.85
	802.11be320-EHT0	127	6585	MCS0	11.00	10.98
		159	6745		11.00	10.91

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Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	5.50	5.31
		209	6995		5.75	5.48
		233	7115		0.50	0.36
	802.11be20-EHT0	185	6875	MCS0	5.50	5.30
		209	6995		5.75	5.52
		233	7115		0.50	0.23
	802.11ax40-HE0	187	6885	MCS0	8.75	8.65
		227	7085		8.75	8.67
	802.11be40-EHT0	187	6885	MCS0	8.75	8.67
		227	7085		8.75	8.52
	802.11ax80-HE0	183	6865	MCS0	11.00	10.84
		199	6945		11.00	10.90
		215	7025		11.00	10.75
	802.11be80-EHT0	183	6865	MCS0	11.00	10.91
		199	6945		11.00	10.85
		215	7025		11.00	10.82
	802.11ax160-HE0	207	6985	MCS0	11.00	10.85
	802.11be160-EHT0	207	6985	MCS0	11.00	10.86
	802.11be320-EHT0	191	6905	MCS0	11.00	10.92

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	10.00	9.83
		45	6175		10.00	9.73
		93	6415		10.00	9.76
	802.11be20-EHT0	1	5955	MCS0	10.00	9.86
		45	6175		10.00	9.87
		93	6415		10.00	9.90
	802.11ax40-HE0	3	5965	MCS0	10.00	9.85
		43	6165		10.00	9.74
		91	6405		10.00	9.83
	802.11be40-EHT0	3	5965	MCS0	10.00	9.87
		43	6165		10.00	9.88
		91	6405		10.00	9.91
	802.11ax80-HE0	7	5985	MCS0	10.00	9.86
		39	6145		10.00	9.81
		87	6385		10.00	9.75
	802.11be80-EHT0	7	5985	MCS0	10.00	9.91
		39	6145		10.00	9.88
		87	6385		10.00	9.83
	802.11ax160-HE0	15	6025	MCS0	10.00	9.81
		47	6185		10.00	9.75
		79	6345		10.00	9.76
	802.11be160-EHT0	15	6025	MCS0	10.00	9.77
		47	6185		10.00	9.91
		79	6345		10.00	9.90
	802.11be320-EHT0	31	6105	MCS0	10.00	9.93
		63	6265		10.00	9.99

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	5.27
		105	6475		5.50	5.31
		113	6515		5.75	5.62
	802.11be20-EHT0	97	6435	MCS0	5.50	5.26
		105	6475		5.50	5.37
		113	6515		5.75	5.49
	802.11ax40-HE0	99	6445	MCS0	8.75	8.55
		107	6485		8.75	8.50
	802.11be40-EHT0	99	6445	MCS0	8.75	8.60
		107	6485		8.75	8.62
	802.11ax80-HE0	103	6465	MCS0	10.00	9.78
		119	6545		10.00	9.90
	802.11be80-EHT0	103	6465	MCS0	10.00	9.73
		119	6545		10.00	9.76
	802.11ax160-HE0	111	6505	MCS0	10.00	9.92
	802.11be160-EHT0	111	6505	MCS0	10.00	9.74
	802.11be320-EHT0	95	6425	MCS0	10.00	9.93

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	10.00	9.74
		149	6695		10.00	9.75
		181	6855		10.00	9.75
	802.11be20-EHT0	117	6535	MCS0	10.00	9.88
		149	6695		10.00	9.78
		181	6855		10.00	9.83
	802.11ax40-HE0	115	6525	MCS0	10.00	9.75
		147	6685		10.00	9.91
		179	6845		10.00	9.89
	802.11be40-EHT0	115	6525	MCS0	10.00	9.83
		147	6685		10.00	9.91
		179	6845		10.00	9.81
	802.11ax80-HE0	135	6625	MCS0	10.00	9.92
		151	6705		10.00	9.87
		167	6785		10.00	9.89
	802.11be80-EHT0	135	6625	MCS0	10.00	9.88
		151	6705		10.00	9.79
		167	6785		10.00	9.76
	802.11ax160-HE0	143	6665	MCS0	10.00	9.76
		175	6825		10.00	9.82
	802.11be160-EHT0	143	6665	MCS0	10.00	9.83
		175	6825		10.00	9.77
	802.11be320-EHT0	127	6585	MCS0	10.00	9.93
		159	6745		10.00	9.96

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Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	5.50	5.36
		209	6995		5.75	5.54
		233	7115		0.50	0.39
	802.11be20-EHT0	185	6875	MCS0	5.50	5.35
		209	6995		5.75	5.49
		233	7115		0.50	0.28
	802.11ax40-HE0	187	6885	MCS0	8.75	8.67
		227	7085		8.75	8.55
	802.11be40-EHT0	187	6885	MCS0	8.75	8.49
		227	7085		8.75	8.55
	802.11ax80-HE0	183	6865	MCS0	10.00	9.75
		199	6945		10.00	9.83
		215	7025		10.00	9.83
	802.11be80-EHT0	183	6865	MCS0	10.00	9.76
		199	6945		10.00	9.75
		215	7025		10.00	9.79
	802.11ax160-HE0	207	6985	MCS0	10.00	9.89
	802.11be160-EHT0	207	6985	MCS0	10.00	9.87
	802.11be320-EHT0	191	6905	MCS0	10.00	9.97

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### 6.3 Bluetooth

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	15.00	14.58	15.00	13.98	15.00	13.99
	CH 39	2441	15.00	14.63	15.00	14.08	15.00	14.07
	CH 78	2480	15.00	14.37	15.00	14.05	15.00	14.05

### 6.4 BLE

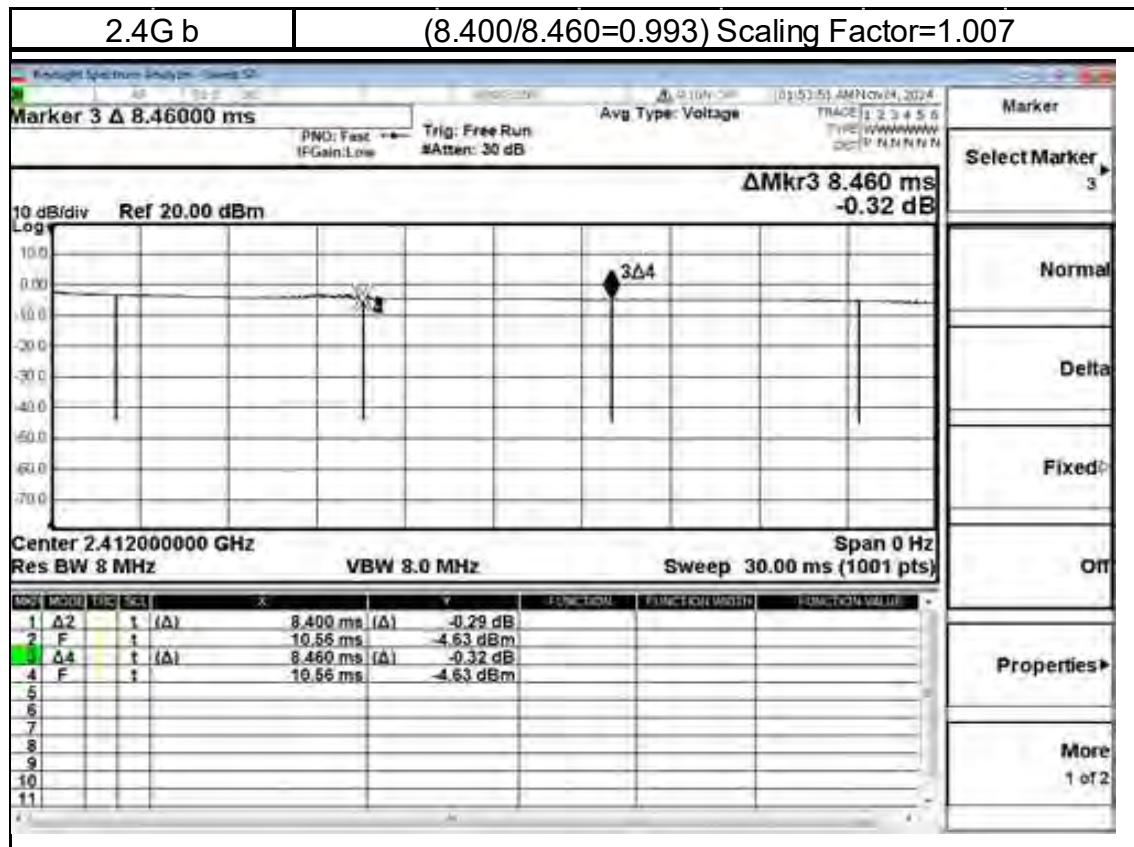
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	15.00	14.63
	CH 19	2440	15.00	14.80
	CH 39	2480	15.00	14.77
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	15.00	14.61
	CH 19	2440	15.00	14.82
	CH 39	2480	15.00	14.75

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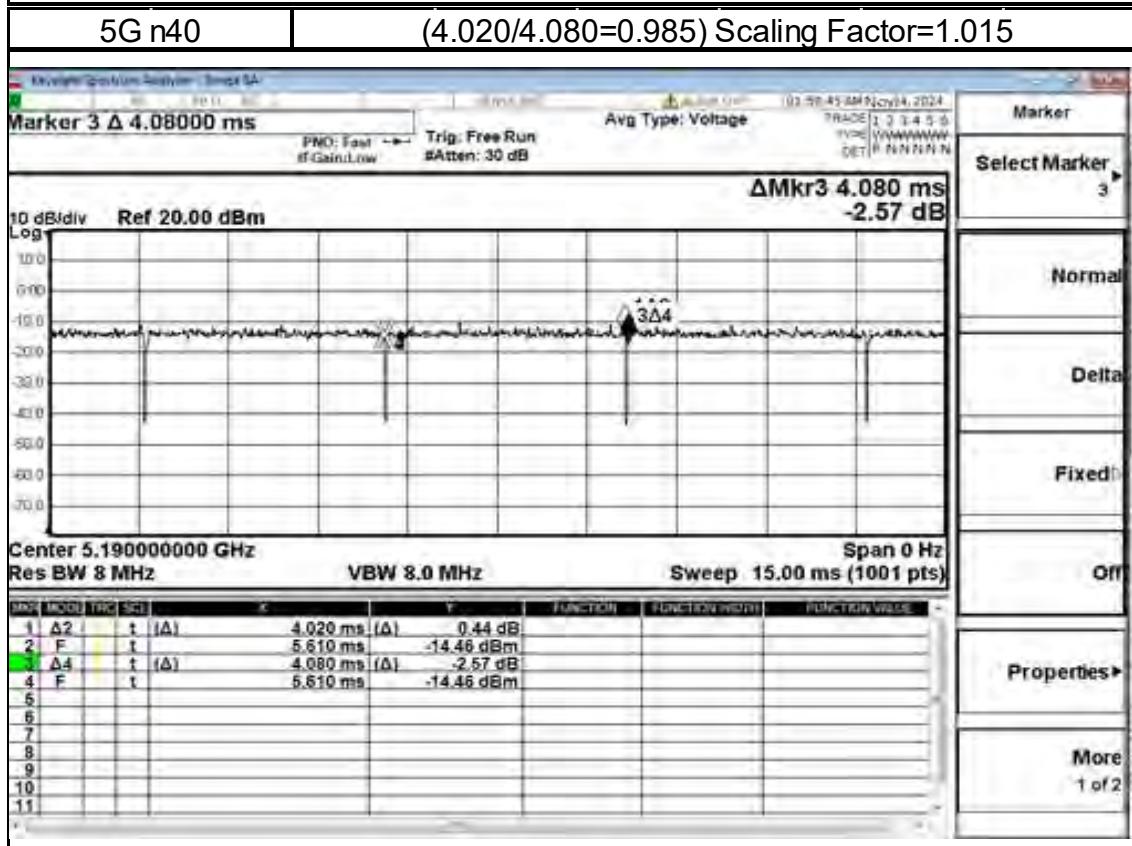
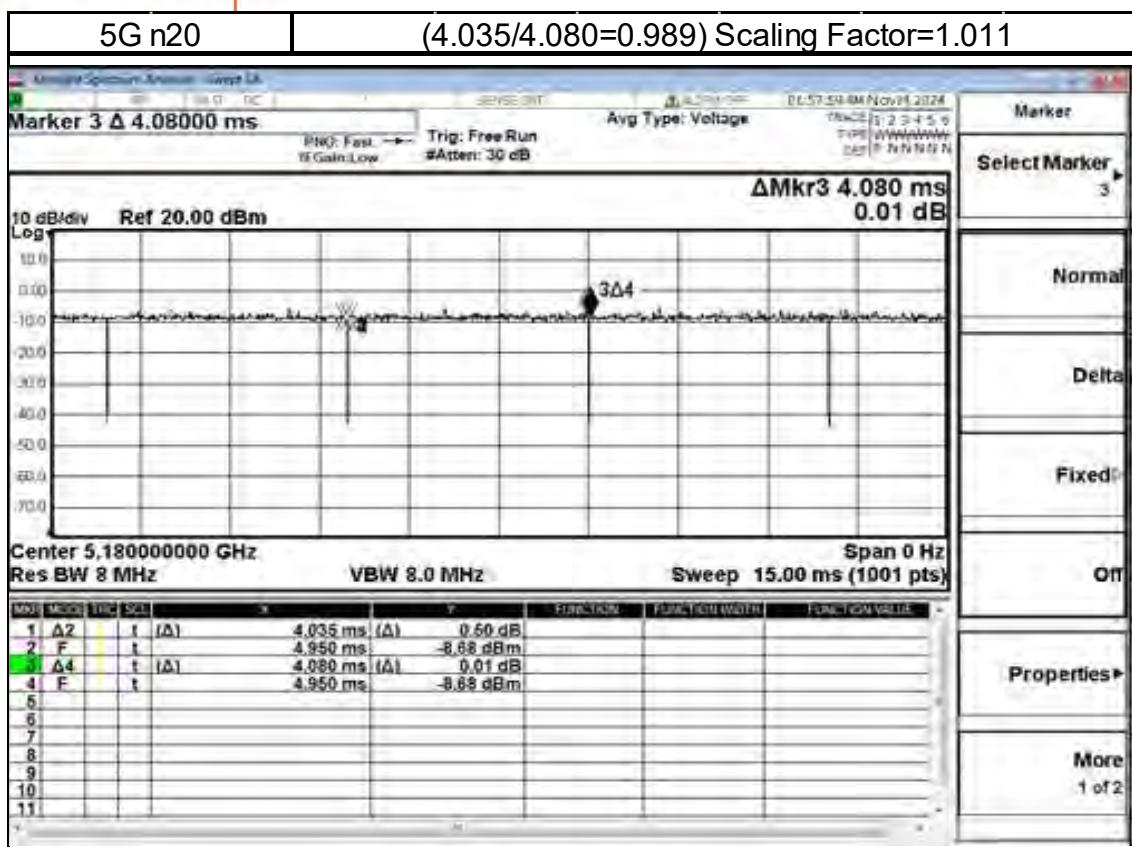
## 7 DUTY CYCLE



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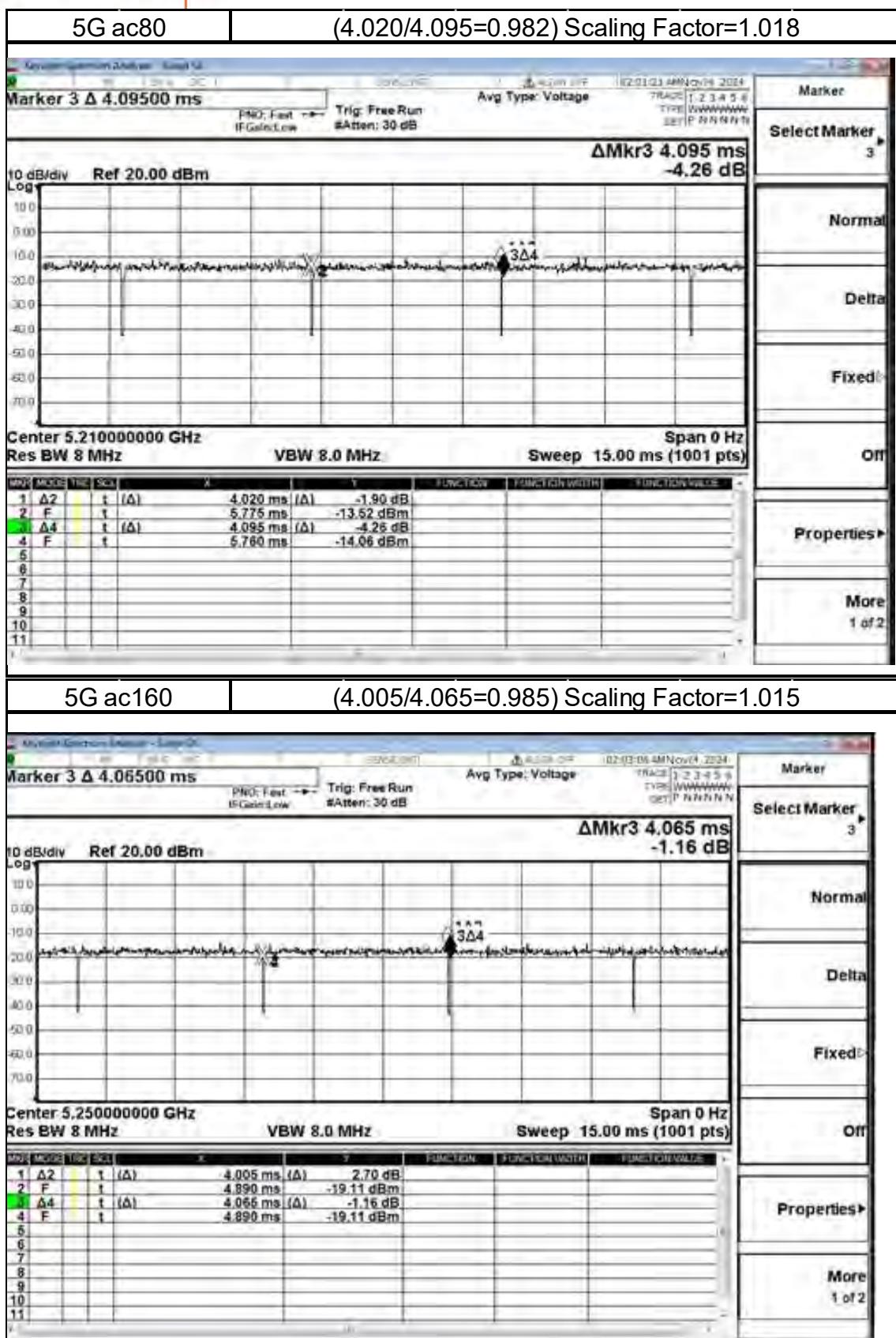
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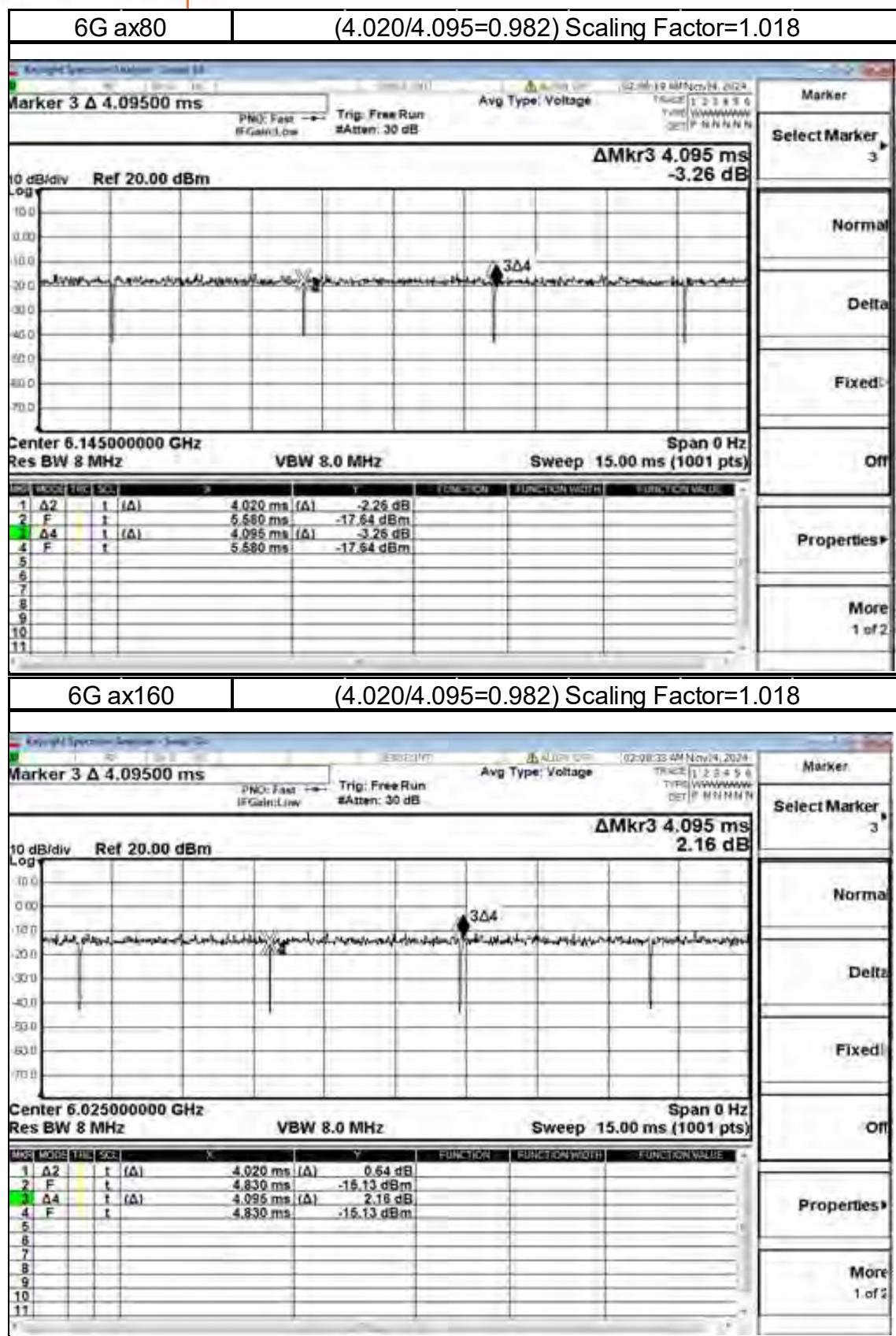


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6G be320 (4.035/4.125=0.978) Scaling Factor=1.022

Marker 3 Δ 4.12500 ms

Trig: Free Run  
IF Gain: 1.0x

Avg. Type: Voltage

TRACE 1 2 3 4 5 6  
TYPE WWWWW  
DET P N N N N

10 dB/div Ref 20.00 dBm

Log

ΔMkr3 4.125 ms  
-0.40 dB

Center 5.265000000 GHz

Span 0 Hz

Res BW 8 MHz

VBW 8.0 MHz

Sweep 15.00 ms (1001 pts)

NAME	MODE	TRIG	SCA	X	Y	FUNCTION	FUNCTION MODE	FUNCTION VALUE
1	A2	t	(Δ)	4.035 ms	(Δ)	-0.74 dB		
2	F	t		6.735 ms		-13.80 dBm		
3	A4	t	(Δ)	4.125 ms	(Δ)	-0.49 dB		
4	F	t		6.735 ms		-13.80 dBm		
5								
6								
7								
8								
9								
10								
11								

Marker

Select Marker 3

Normal

Delta

Fixed

Off

Properties

More 1 of 2

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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

#### WLAN

##### 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	Main	Bottom Surface	0	1	2412	20.00	19.98	1.007	100.46%	0.098	0.099	-
WLAN 802.11b	Main	Bottom Surface	0	6	2437	23.00	21.48	1.007	141.91%	0.154	0.220	-
WLAN 802.11b	Main	Bottom Surface	0	11	2462	23.00	21.64	1.007	136.77%	0.178	0.245	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(20M) 5.2G	Main	Bottom Surface	0	36	5180	21.75	21.65	1.011	102.33%	0.105	0.109	-
WLAN 802.11n(20M) 5.2G	Main	Bottom Surface	0	40	5200	21.75	21.68	1.011	101.62%	0.129	0.133	002
WLAN 802.11n(20M) 5.2G	Main	Bottom Surface	0	44	5220	21.75	21.67	1.011	101.86%	0.120	0.124	-
WLAN 802.11n(20M) 5.2G	Main	Bottom Surface	0	48	5240	21.75	21.62	1.011	103.04%	0.115	0.120	-
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	Main	Bottom Surface	0	54	5270	21.00	20.85	1.015	103.51%	0.121	0.127	004
WLAN 802.11n(40M) 5.3G	Main	Bottom Surface	0	62	5310	19.50	19.47	1.015	100.69%	0.098	0.100	-
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	Main	Bottom Surface	0	106	5530	20.00	19.99	1.018	100.23%	0.164	0.167	-
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface	0	122	5610	20.50	20.47	1.018	100.69%	0.192	0.197	-
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface	0	138	5690	20.50	20.49	1.018	100.23%	0.196	0.200	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) 5.8G	Main	Bottom Surface	0	155	5775	20.00	19.95	1.018	101.16%	0.180	0.185	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 802.11ac(80M) 5.9G	Main	Bottom Surface	0	171	5855	20.00	19.97	1.018	100.69%	0.265	0.272	007
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Aux	Bottom Surface	0	1	2412	20.00	19.91	1.007	102.09%	0.055	0.057	-
WLAN 802.11b	Aux	Bottom Surface	0	6	2437	22.50	20.58	1.007	155.60%	0.086	0.135	008
WLAN 802.11b	Aux	Bottom Surface	0	11	2462	22.00	20.28	1.007	148.59%	0.077	0.115	-
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)	Aux	Bottom Surface	0	00	2402	15.00	14.58	1.232	110.15%	0.011	0.015	-
Bluetooth(GFSK)	Aux	Bottom Surface	0	39	2441	15.00	14.63	1.232	108.89%	0.015	0.020	009
Bluetooth(GFSK)	Aux	Bottom Surface	0	78	2480	15.00	14.37	1.232	115.61%	0.008	0.011	-
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	Aux	Bottom Surface	0	38	5190	21.00	20.21	1.015	119.95%	0.191	0.233	-
WLAN 802.11n(40M) 5.2G	Aux	Bottom Surface	0	46	5230	21.75	21.18	1.015	114.02%	0.206	0.238	010
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	Aux	Bottom Surface	0	54	5270	22.50	21.67	1.015	121.06%	0.313	0.385	012
WLAN 802.11n(40M) 5.3G	Aux	Bottom Surface	0	62	5310	20.25	20.23	1.015	100.46%	0.243	0.248	-
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) 5.6G	Aux	Bottom Surface	0	102	5510	21.75	21.67	1.015	101.86%	0.202	0.209	-
WLAN 802.11n(40M) 5.6G	Aux	Bottom Surface	0	118	5590	23.00	22.66	1.015	108.14%	0.323	0.355	013
WLAN 802.11n(40M) 5.6G	Aux	Bottom Surface	0	134	5670	22.00	21.97	1.015	100.69%	0.178	0.182	-
WLAN 802.11n(40M) 5.6G	Aux	Bottom Surface	0	142	5710	22.50	22.45	1.015	101.16%	0.186	0.191	-
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	Aux	Bottom Surface	0	151	5755	22.00	21.95	1.015	101.16%	0.152	0.156	-
WLAN 802.11n(40M) 5.8G	Aux	Bottom Surface	0	159	5795	22.00	21.99	1.015	100.23%	0.163	0.166	014
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	Aux	Bottom Surface	0	171	5855	22.00	21.95	1.018	101.16%	0.209	0.215	015

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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	Main	Back Surface	0	6	2437	18.50	18.49	1.007	100.23%	0.138	0.139	-
WLAN 802.11b	Main	Top Edge	0	6	2437	18.50	18.49	1.007	100.23%	0.164	0.166	-
WLAN 802.11b	Main	Bottom Edge	0	6	2437	18.50	18.49	1.007	100.23%	0.154	0.155	-
WLAN 802.11b	Main	Right Edge	0	1	2412	18.50	18.45	1.007	101.16%	1.050	1.070	-
WLAN 802.11b	Main	Right Edge	0	6	2437	18.50	18.49	1.007	100.23%	1.100	1.110	016
WLAN 802.11b	Main	Right Edge	0	11	2462	18.50	18.42	1.007	101.86%	0.984	1.009	-
WLAN 802.11b	Main	Right Edge*	0	6	2437	18.50	18.49	1.007	100.23%	1.050	1.060	-
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(160M) 5.2G	Main	Back Surface	0	50	5250	13.50	13.49	1.015	100.23%	0.056	0.057	-
WLAN 802.11ac(160M) 5.2G	Main	Top Edge	0	50	5250	13.50	13.49	1.015	100.23%	0.032	0.033	-
WLAN 802.11ac(160M) 5.2G	Main	Bottom Edge	0	50	5250	13.50	13.49	1.015	100.23%	0.014	0.014	-
WLAN 802.11ac(160M) 5.2G	Main	Right Edge	0	50	5250	13.50	13.49	1.015	100.23%	1.010	1.028	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)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Main	Back Surface	0	58	5290	13.00	12.99	1.018	100.23%	0.071	0.072	-
WLAN 802.11ac(80M) 5.3G	Main	Top Edge	0	58	5290	13.00	12.99	1.018	100.23%	0.044	0.045	-
WLAN 802.11ac(80M) 5.3G	Main	Bottom Edge	0	58	5290	13.00	12.99	1.018	100.23%	0.018	0.018	-
WLAN 802.11ac(80M) 5.3G	Main	Right Edge	0	58	5290	13.00	12.99	1.018	100.23%	1.020	1.041	018
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(160M) 5.6G	Main	Back Surface	0	114	5570	13.50	13.49	1.015	100.23%	0.067	0.068	-
WLAN 802.11ac(160M) 5.6G	Main	Top Edge	0	114	5570	13.50	13.49	1.015	100.23%	0.038	0.039	-
WLAN 802.11ac(160M) 5.6G	Main	Bottom Edge	0	114	5570	13.50	13.49	1.015	100.23%	0.016	0.016	-
WLAN 802.11ac(160M) 5.6G	Main	Right Edge	0	114	5570	13.50	13.49	1.015	100.23%	1.050	1.068	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)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Main	Back Surface	0	155	5775	14.00	13.92	1.018	101.86%	0.059	0.061	-
WLAN 802.11ac(80M) 5.8G	Main	Top Edge	0	155	5775	14.00	13.92	1.018	101.86%	0.041	0.043	-
WLAN 802.11ac(80M) 5.8G	Main	Bottom Edge	0	155	5775	14.00	13.92	1.018	101.86%	0.019	0.020	-
WLAN 802.11ac(80M) 5.8G	Main	Right Edge	0	155	5775	14.00	13.92	1.018	101.86%	1.030	1.068	021
WLAN 802.11ac(80M) 5.8G	Main	Right Edge*	0	155	5775	14.00	13.92	1.018	101.86%	0.991	1.028	-
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 802.11ac(160M) 5.9G	Main	Back Surface	0	163	5815	13.50	13.49	1.015	100.23%	0.077	0.078	-
WLAN 802.11ac(160M) 5.9G	Main	Top Edge	0	163	5815	13.50	13.49	1.015	100.23%	0.050	0.051	-
WLAN 802.11ac(160M) 5.9G	Main	Bottom Edge	0	163	5815	13.50	13.49	1.015	100.23%	0.023	0.023	-
WLAN 802.11ac(160M) 5.9G	Main	Right Edge	0	163	5815	13.50	13.49	1.015	100.23%	1.080	1.099	022
WLAN 802.11ac(160M) 5.9G	Main	Right Edge*	0	163	5815	13.50	13.49	1.015	100.23%	1.030	1.048	-
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	Aux	Back Surface	0	6	2437	21.50	19.92	1.007	143.88%	0.161	0.233	-
WLAN 802.11b	Aux	Top Edge	0	6	2437	21.50	19.92	1.007	143.88%	0.100	0.145	-
WLAN 802.11b	Aux	Bottom Edge	0	6	2437	21.50	19.92	1.007	143.88%	0.114	0.165	-
WLAN 802.11b	Aux	Left Edge	0	1	2412	20.00	19.91	1.007	102.09%	0.651	0.669	-
WLAN 802.11b	Aux	Left Edge	0	6	2437	21.50	19.92	1.007	143.88%	0.706	1.023	023
WLAN 802.11b	Aux	Left Edge	0	11	2462	21.50	19.90	1.007	144.54%	0.633	0.921	-
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)	Aux	Back Surface	0	39	2441	15.00	14.63	1.232	108.89%	0.031	0.042	-
Bluetooth(GFSK)	Aux	Top Edge	0	39	2441	15.00	14.63	1.232	108.89%	0.010	0.013	-
Bluetooth(GFSK)	Aux	Bottom Edge	0	39	2441	15.00	14.63	1.232	108.89%	0.020	0.027	-
Bluetooth(GFSK)	Aux	Left Edge	0	00	2402	15.00	14.58	1.232	110.15%	0.170	0.231	-
Bluetooth(GFSK)	Aux	Left Edge	0	39	2441	15.00	14.63	1.232	108.89%	0.195	0.262	024
Bluetooth(GFSK)	Aux	Left Edge	0	78	2480	15.00	14.37	1.232	115.61%	0.153	0.218	-
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(160M) 5.2G	Aux	Back Surface	0	50	5250	14.00	13.98	1.015	100.46%	0.072	0.073	-
WLAN 802.11ac(160M) 5.2G	Aux	Top Edge	0	50	5250	14.00	13.98	1.015	100.46%	0.025	0.025	-
WLAN 802.11ac(160M) 5.2G	Aux	Bottom Edge	0	50	5250	14.00	13.98	1.015	100.46%	0.038	0.039	-
WLAN 802.11ac(160M) 5.2G	Aux	Left Edge	0	50	5250	14.00	13.98	1.015	100.46%	1.040	1.060	025
WLAN 802.11ac(160M) 5.2G	Aux	Left Edge*	0	50	5250	14.00	13.98	1.015	100.46%	0.985	1.004	-
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 802.11ac(80M) 5.3G	Aux	Back Surface	0	58	5290	13.00	12.98	1.018	100.46%	0.088	0.090	-
WLAN 802.11ac(80M) 5.3G	Aux	Top Edge	0	58	5290	13.00	12.98	1.018	100.46%	0.034	0.035	-
WLAN 802.11ac(80M) 5.3G	Aux	Bottom Edge	0	58	5290	13.00	12.98	1.018	100.46%	0.046	0.047	-
WLAN 802.11ac(80M) 5.3G	Aux	Left Edge	0	58	5290	13.00	12.98	1.018	100.46%	0.997	1.020	026
WLAN 802.11ac(80M) 5.3G	Aux	Left Edge*	0	58	5290	13.00	12.98	1.018	100.46%	0.984	1.006	-
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 802.11ac(160M) 5.6G	Aux	Back Surface	0	114	5570	14.00	13.98	1.015	100.46%	0.071	0.072	-
WLAN 802.11ac(160M) 5.6G	Aux	Top Edge	0	114	5570	14.00	13.98	1.015	100.46%	0.028	0.029	-
WLAN 802.11ac(160M) 5.6G	Aux	Bottom Edge	0	114	5570	14.00	13.98	1.015</				

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) 5.8G	Aux	Back Surface	0	155	5775	11.50	11.48	1.018	100.46%	0.063	0.064	-
WLAN 802.11ac(80M) 5.8G	Aux	Top Edge	0	155	5775	11.50	11.48	1.018	100.46%	0.020	0.020	-
WLAN 802.11ac(80M) 5.8G	Aux	Bottom Edge	0	155	5775	11.50	11.48	1.018	100.46%	0.029	0.030	-
WLAN 802.11ac(80M) 5.8G	Aux	Left Edge	0	155	5775	11.50	11.48	1.018	100.46%	0.912	0.933	029
WLAN 802.11ac(80M) 5.8G	Aux	Left Edge	0	155	5775	11.50	11.48	1.018	100.46%	0.885	0.905	-

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(160M) 5.9G	Aux	Back Surface	0	163	5815	11.50	11.47	1.015	100.69%	0.059	0.060	-
WLAN 802.11ac(160M) 5.9G	Aux	Top Edge	0	163	5815	11.50	11.47	1.015	100.69%	0.021	0.021	-
WLAN 802.11ac(160M) 5.9G	Aux	Bottom Edge	0	163	5815	11.50	11.47	1.015	100.69%	0.033	0.034	-
WLAN 802.11ac(160M) 5.9G	Aux	Left Edge	0	163	5815	11.50	11.47	1.015	100.69%	1.010	1.032	030
WLAN 802.11ac(160M) 5.9G	Aux	Left Edge*	0	163	5815	11.50	11.47	1.015	100.69%	0.992	1.014	-

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

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

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## WLAN 6GHz 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)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(80M)	Main	Bottom Surface	0	7	5985	21.50	21.49	1.018	100.23%	0.366	0.373	3.37	3.439	031
U-NII-5 6.2GHz 802.11ax(80M)	Main	Bottom Surface	0	39	6145	21.50	21.43	1.018	101.62%	0.287	0.297	2.42	2.504	-
U-NII-5 6.2GHz 802.11ax(80M)	Main	Bottom Surface	0	87	6385	21.50	21.41	1.018	102.09%	0.253	0.263	2.27	2.359	-
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 802.11be(320M)	Main	Bottom Surface	0	95	6425	16.25	16.18	1.022	101.62%	0.102	0.106	0.793	0.824	032
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)	Main	Bottom Surface	0	135	6625	21.50	21.48	1.018	100.46%	0.613	0.627	5.57	5.696	-
U-NII-7 6.7GHz 802.11ax(80M)	Main	Bottom Surface	0	151	6705	21.50	21.49	1.018	100.23%	0.624	0.637	5.26	5.367	033
U-NII-7 6.7GHz 802.11ax(80M)	Main	Bottom Surface	0	167	6785	21.50	21.41	1.018	102.09%	0.563	0.585	5.06	5.259	-
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 802.11be(320M)	Main	Bottom Surface	0	191	6905	17.00	16.95	1.022	101.16%	0.127	0.131	0.982	1.015	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)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11be(320M)	Aux	Bottom Surface	0	31	6105	18.50	18.47	1.022	100.69%	0.103	0.106	0.837	0.861	035
U-NII-5 6.2GHz 802.11be(320M)	Aux	Bottom Surface	0	63	6265	16.25	16.19	1.022	101.39%	0.057	0.059	0.513	0.532	-
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 802.11be(320M)	Aux	Bottom Surface	0	95	6425	16.25	16.21	1.022	100.93%	0.013	0.013	0.104	0.107	036
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(160M)	Aux	Bottom Surface	0	143	6665	18.50	18.45	1.018	101.16%	0.019	0.020	0.151	0.155	037
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Bottom Surface	0	175	6825	14.50	14.43	1.018	101.62%	0.006	0.006	0.063	0.065	-
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 802.11be(320M)	Aux	Bottom Surface	0	191	6905	17.25	15.56	1.022	147.57%	0.016	0.024	0.056	0.064	038

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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)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-5.6GHz 802.11be(320M)	Main	Back Surface	0	31	6105	11.00	10.98	1.022	100.46%	0.055	0.056	0.385	0.395	-
U-NII-5.6GHz 802.11be(320M)	Main	Top Edge	0	31	6105	11.00	10.98	1.022	100.46%	0.024	0.025	0.168	0.172	-
U-NII-5.6GHz 802.11be(320M)	Main	Bottom Edge	0	31	6105	11.00	10.98	1.022	100.46%	0.039	0.040	0.276	0.284	-
U-NII-5.6GHz 802.11be(320M)	Main	Right Edge	0	31	6105	11.00	10.98	1.022	100.46%	0.623	0.640	3.900	4.004	039
U-NII-5.6GHz 802.11be(320M)	Main	Right Edge	0	63	6265	11.00	10.91	1.022	102.09%	0.607	0.633	3.600	3.756	-
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-6.5GHz 802.11be(320M)	Main	Back Surface	0	95	6425	11.00	10.93	1.022	101.62%	0.042	0.044	0.289	0.300	-
U-NII-6.5GHz 802.11be(320M)	Main	Top Edge	0	95	6425	11.00	10.93	1.022	101.62%	0.015	0.016	0.100	0.104	-
U-NII-6.5GHz 802.11be(320M)	Main	Bottom Edge	0	95	6425	11.00	10.93	1.022	101.62%	0.037	0.038	0.257	0.267	-
U-NII-6.5GHz 802.11be(320M)	Main	Right Edge	0	95	6425	11.00	10.93	1.022	101.62%	0.585	0.608	3.800	3.947	040
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-6.7GHz 802.11be(320M)	Main	Back Surface	0	127	6585	11.00	10.98	1.022	100.46%	0.055	0.056	0.385	0.395	-
U-NII-6.7GHz 802.11be(320M)	Main	Top Edge	0	127	6585	11.00	10.98	1.022	100.46%	0.021	0.022	0.145	0.149	-
U-NII-6.7GHz 802.11be(320M)	Main	Bottom Edge	0	127	6585	11.00	10.98	1.022	100.46%	0.048	0.049	0.330	0.339	-
U-NII-6.7GHz 802.11be(320M)	Main	Right Edge	0	127	6585	11.00	10.98	1.022	100.46%	0.577	0.592	3.750	3.850	041
U-NII-6.7GHz 802.11be(320M)	Main	Right Edge	0	159	6745	11.00	10.91	1.022	102.09%	0.432	0.451	3.020	3.151	-
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-7.0GHz 802.11be(320M)	Main	Back Surface	0	191	6905	11.00	10.92	1.022	101.86%	0.051	0.053	0.331	0.345	-
U-NII-7.0GHz 802.11be(320M)	Main	Top Edge	0	191	6905	11.00	10.92	1.022	101.86%	0.019	0.020	0.123	0.128	-
U-NII-7.0GHz 802.11be(320M)	Main	Bottom Edge	0	191	6905	11.00	10.92	1.022	101.86%	0.047	0.049	0.300	0.312	-
U-NII-7.0GHz 802.11be(320M)	Main	Right Edge	0	191	6905	11.00	10.92	1.022	101.86%	0.454	0.473	2.830	2.946	042
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-5.2GHz 802.11be(320M)	Aux	Back Surface	0	63	6265	10.00	9.99	1.022	100.23%	0.015	0.015	0.090	0.092	-
U-NII-5.2GHz 802.11be(320M)	Aux	Top Edge	0	63	6265	10.00	9.99	1.022	100.23%	0.023	0.024	0.138	0.141	-
U-NII-5.2GHz 802.11be(320M)	Aux	Bottom Edge	0	63	6265	10.00	9.99	1.022	100.23%	0.031	0.032	0.180	0.184	-
U-NII-5.2GHz 802.11be(320M)	Aux	Left Edge	0	31	6105	10.00	9.93	1.022	101.62%	0.812	0.843	4.100	4.258	-
U-NII-5.2GHz 802.11be(320M)	Aux	Left Edge	0	63	6265	10.00	9.99	1.022	100.23%	0.868	0.889	4.470	4.579	043
U-NII-5.2GHz 802.11be(320M)	Aux	Left Edge*	0	63	6265	10.00	9.99	1.022	100.23%	0.824	0.844	4.320	4.425	-
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-6.5GHz 802.11be(320M)	Aux	Back Surface	0	95	6425	10.00	9.93	1.022	101.62%	0.022	0.023	0.132	0.137	-
U-NII-6.5GHz 802.11be(320M)	Aux	Top Edge	0	95	6425	10.00	9.93	1.022	101.62%	0.035	0.036	0.210	0.218	-
U-NII-6.5GHz 802.11be(320M)	Aux	Bottom Edge	0	95	6425	10.00	9.93	1.022	101.62%	0.048	0.050	0.288	0.299	-
U-NII-6.5GHz 802.11be(320M)	Aux	Left Edge	0	95	6425	10.00	9.93	1.022	101.62%	0.932	0.968	5.410	5.619	044
U-NII-6.5GHz 802.11be(320M)	Aux	Left Edge*	0	95	6425	10.00	9.93	1.022	101.62%	0.895	0.931	5.370	5.577	-
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-7.6GHz 802.11be(320M)	Aux	Back Surface	0	159	6745	10.00	9.96	1.022	100.93%	0.019	0.020	0.108	0.111	-
U-NII-7.6GHz 802.11be(320M)	Aux	Top Edge	0	159	6745	10.00	9.96	1.022	100.93%	0.032	0.033	0.197	0.203	-
U-NII-7.6GHz 802.11be(320M)	Aux	Bottom Edge	0	159	6745	10.00	9.96	1.022	100.93%	0.041	0.042	0.288	0.297	-
U-NII-7.6GHz 802.11be(320M)	Aux	Left Edge	0	127	6585	10.00	9.93	1.022	101.62%	0.811	0.842	3.880	4.030	-
U-NII-7.6GHz 802.11be(320M)	Aux	Left Edge	0	159	6745	10.00	9.96	1.022	100.93%	0.869	0.896	4.180	4.311	045
U-NII-7.6GHz 802.11be(320M)	Aux	Left Edge*	0	159	6745	10.00	9.96	1.022	100.93%	0.821	0.847	4.040	4.167	-
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-8.0GHz 802.11be(320M)	Aux	Back Surface	0	191	6905	10.00	9.97	1.022	100.69%	0.013	0.013	0.074	0.076	-
U-NII-8.0GHz 802.11be(320M)	Aux	Top Edge	0	191	6905	10.00	9.97	1.022	100.69%	0.024	0.025	0.127	0.131	-
U-NII-8.0GHz 802.11be(320M)	Aux	Bottom Edge	0	191	6905	10.00	9.97	1.022	100.69%	0.037	0.038	0.210	0.216	-
U-NII-8.0GHz 802.11be(320M)	Aux	Left Edge	0	191	6905	10.00	9.97	1.022	100.69%	0.775	0.798	3.780	3.890	046

\* - 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

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## 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 <sup>2</sup> )	Reported Total psPD (W/m <sup>2</sup> )	Measured Normal psPD (W/m <sup>2</sup> )	Reported Normal psPD (W/m <sup>2</sup> )	
WLAN 6E 802.11be(320M) U-NII-5	Main	Right Edge	2	31	6105	11.00	10.98	100.46%	1.02	1.55	3.090	4.898	2.380	3.773	047
	Main	Right Edge	2	63	6265	11.00	10.91	102.09%	1.02	1.55	2.750	4.430	1.580	2.545	048
WLAN 6E 802.11be(320M) U-NII-6	Main	Right Edge	2	95	6425	11.00	10.93	101.62%	1.02	1.55	2.290	3.672	1.260	2.020	049
	Main	Right Edge	2	127	6585	11.00	10.98	100.46%	1.02	1.55	2.550	4.042	1.610	2.552	050
WLAN 6E 802.11be(320M) U-NII-7	Main	Right Edge	2	159	6745	11.00	10.91	102.09%	1.02	1.55	1.890	3.045	1.420	2.288	-
	Main	Right Edge	2	191	6905	11.00	10.92	101.86%	1.02	1.55	2.260	3.632	1.800	2.893	051
WLAN 6E 802.11be(320M) U-NII-8	Main	Right Edge	2												
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 <sup>2</sup> )	Reported Total psPD (W/m <sup>2</sup> )	Measured Normal psPD (W/m <sup>2</sup> )	Reported Normal psPD (W/m <sup>2</sup> )	
WLAN 6E 802.11be(320M) U-NII-5	Aux	Left Edge	2	31	6105	10.00	9.93	101.62%	1.02	1.55	2.630	4.217	2.210	3.544	052
	Aux	Left Edge	2	63	6265	10.00	9.99	100.23%	1.02	1.55	2.820	4.460	2.420	3.827	053
WLAN 6E 802.11be(320M) U-NII-6	Aux	Left Edge	2	95	6425	10.00	9.93	101.62%	1.02	1.55	3.030	4.859	2.550	4.089	054
WLAN 6E 802.11be(320M) U-NII-7	Aux	Left Edge	2	127	6585	10.00	9.93	101.62%	1.02	1.55	2.880	4.618	2.520	4.041	-
	Aux	Left Edge	2	159	6745	10.00	9.96	100.93%	1.02	1.55	3.040	4.841	2.760	4.395	055
WLAN 6E 802.11be(320M) U-NII-8	Aux	Left Edge	2	191	6905	10.00	9.97	100.69%	1.02	1.55	2.260	3.591	1.960	3.114	056

### 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  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

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

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

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## Simultaneous Transmission Combination Notebook mode

Exposure Position	Reported SAR							2+3 Summed	4+5 Summed	2+7 Summed	4+7 Summed	4+5+7 Summed	7+8 Summed	8+9 Summed	7+8+9 Summed	
	2 2.4GHz WLAN Main	3 2.4GHz WLAN Aux	4 5GHz WLAN Main	5 5GHz WLAN Aux	7 Bluetooth Aux	8 8GHz WLAN Main	9 8GHz WLAN Aux									
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)									
Bottom Surface	0	0.245	0.135	0.272	0.385	0.020	0.637	0.106	0.380	0.657	0.265	0.292	0.677	0.657	0.743	0.763

## Tablet mode

Exposure Position	Reported SAR							2+3 Summed	4+5 Summed	2+7 Summed	4+7 Summed	4+5+7 Summed	7+8 Summed	8+9 Summed	7+8+9 Summed	
	2 2.4GHz WLAN Main	3 2.4GHz WLAN Aux	4 5GHz WLAN Main	5 5GHz WLAN Aux	7 Bluetooth Aux	8 8GHz WLAN Main	9 8GHz WLAN Aux									
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)									
Back Surface	0	0.139	0.233	0.078	0.090	0.042	0.056	0.023	0.372	0.168	0.181	0.120	0.210	0.098	0.079	0.121
Top Edge	0	0.166	0.145	0.051	0.042	0.013	0.025	0.036	0.311	0.093	0.179	0.064	0.106	0.038	0.061	0.074
Bottom Edge	0	0.155	0.165	0.023	0.047	0.027	0.049	0.050	0.320	0.070	0.182	0.050	0.097	0.076	0.099	0.126
Right Edge	0	1.110		1.099			0.640		1.110	1.099	1.110	1.099	0.640	0.640	0.640	0.640
Left Edge	0		1.023		1.080	0.262		0.968	1.023	1.080	0.262	0.262	1.322	0.262	0.988	1.230

## 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	1260	Sep/19/2024	Sep/18/2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	3665	Sep/04/2024	Sep/03/2025
SPEAG	E-field Probe for Near Field Application	EUmmWV4	9635	Apr/16/2024	Apr/15/2025
SPEAG	System Validation Dipole	D2450V2	728	Aug/23/2024	Aug/22/2025
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/24/2024	Jan/23/2025
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/15/2024	Aug/14/2025
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/15/2024	Aug/14/2025
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/17/2024	Jan/16/2025
SPEAG	Dielectric Assessment Kit	DAK-3.5	1342	May/21/2024	May/20/2025
Keysight	EXA Signal Analyzer	N9010B	MY63440390	Feb/16/2024	Feb/15/2025
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/21/2024	May/20/2025
Agilent	Dual-directional coupler	772D	MY46151258	Sep/30/2024	Sep/29/2025
Agilent	Dual-directional coupler	778D	MY46151242	Sep/03/2024	Sep/02/2025
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 Meter	NRX	105651	Nov/11/2024	Nov/10/2025
R&S	Power Sensor	NRP6A	104247	Nov/11/2024	Nov/10/2025
R&S	Power Sensor	NRP6A	104246	Nov/11/2024	Nov/10/2025
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	EC14010603	Nov/11/2024	Nov/10/2025
TECPTEL	Digital thermometer	DTM-303A	TP130077	Oct/14/2024	Oct/13/2025

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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
<b>Measurement system</b>								
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55% $\infty$
<i>Isotropy, Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02% $\infty$
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54% $\infty$
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40% $\infty$
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58% $\infty$
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71% $\infty$
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58% $\infty$
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30% $\infty$
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46% $\infty$
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50% $\infty$
<i>Measurement drift (class A evaluation)</i>	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01% $\infty$
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73% $\infty$
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73% $\infty$
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23% $\infty$
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67% $\infty$
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58% $\infty$
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58% $\infty$
<b>Test Sample related</b>								
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90% M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60% M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89% $\infty$
<b>Phantom and Setup</b>								
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31% $\infty$
Liquid permittivity (mea.)	1.63%	N	1	1	0.64	0.43	1.04%	0.70% M
Liquid Conductivity (mea.)	2.09%	N	1	1	0.6	0.49	1.25%	1.02% M
Combined standard uncertainty		RSS					11.83%	11.77%
Explant uncertainty (95% confidence interval), K=2							23.66%	23.54%

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

A	c	D	e	f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty vi, or Veff
<b>Measurement system</b>								
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00% $\infty$
<i>Isotropy, Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02% $\infty$
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54% $\infty$
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40% $\infty$
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58% $\infty$
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71% $\infty$
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58% $\infty$
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30% $\infty$
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46% $\infty$
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50% $\infty$
<i>Measurement drift (class A evaluation)</i>	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01% $\infty$
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73% $\infty$
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73% $\infty$
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23% $\infty$
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67% $\infty$
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58% $\infty$
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58% $\infty$
<b>Test Sample related</b>								
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90% M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60% M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89% $\infty$
<b>Phantom and Setup</b>								
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31% $\infty$
Liquid permittivity (mea.)	1.41%	N	1	1	0.64	0.43	0.90%	0.61% M
Liquid Conductivity (mea.)	3.62%	N	1	1	0.6	0.49	2.17%	1.77% M
Combined standard uncertainty		RSS					11.66%	11.56%
Explant uncertainty (95% confidence interval), K=2							23.31%	23.12%

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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 ( $\pm\%$ )	Probability Distribution	Div.	Div. Value	(ci) 1g	(ci) 10g	Std. uncertainty (1g) ( $\pm\%$ )	Std. uncertainty (10g) ( $\pm\%$ )
<b>Measurement system errors</b>								
Probe calibration	18.6	N	2	2	1	1	9.3	9.3
Probe Calibration Drift	1.7	R	$\sqrt{3}$	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	$\sqrt{3}$	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	$\sqrt{3}$	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	$\sqrt{3}$	1.732	1	1	4.4	4.4
Data Acquisition	0.3	N	1	1	1	1	0.3	0.3
RF Ambient	1.8	N	1	1	1	1	1.8	1.8
Probe positioning	0.2	N	1	1	0.67	0.67	0.1	0.1
Data Processing	3.5	N	1	1	1	1	3.5	3.5
<b>Phantom and device errors</b>								
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8
Conductivity (temp.)BB	2.4	R	$\sqrt{3}$	1.732	0.78	0.71	1.1	1.0
Phantom Permittivity	14.0	R	$\sqrt{3}$	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 ( $\pm 0.5\text{mm}$ )	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	$\sqrt{3}$	1.732	1	1	1.4	1.4
Time-average SAR	0.0	R	$\sqrt{3}$	1.732	1	1	0.0	0.0
DUT drift	2.5	N	1	1	1	1	2.5	2.5
Val Antenna Unc.	0.0	N	1	1	1	1	0.0	0.0
Unc. Input Power	0.0	N	1	1	1	1	0.0	0.0
<b>Correction to the SAR results</b>								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling		R	$\sqrt{3}$	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 Distributioin	Div.	Div. Value	ci	Std. uncertainty (+-dB)	(vi) Veff
<b>Uncertainty terms dependent on the measurement system</b>							
Probe calibration	0.49	N	1	1	1	0.49	$\infty$
Probe correction	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Frequency response (BW $\leq 1\text{GHz}$ )	0.20	R	$\sqrt{3}$	1.732	1	0.12	$\infty$
Sensor cross coupling	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Isotropy	0.50	R	$\sqrt{3}$	1.732	1	0.29	$\infty$
Linearity	0.20	R	$\sqrt{3}$	1.732	1	0.12	$\infty$
Probe scattering	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Probe positioning offset	0.30	R	$\sqrt{3}$	1.732	1	0.17	$\infty$
Probe positioning repeatability	0.04	R	$\sqrt{3}$	1.732	1	0.02	$\infty$
Sensor mechanical offset	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Probe spatial resolution	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Field impedance dependence	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Amplitude and phase drift	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Amplitude and phase noise	0.04	R	$\sqrt{3}$	1.732	1	0.02	$\infty$
Measurement area truncation	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Data acquisition	0.03	N	1	1	1	0.03	$\infty$
Sampling	0.00	R	$\sqrt{3}$	1	1	0.00	$\infty$
Field reconstruction	2.00	R	$\sqrt{3}$	1.732	1	1.15	$\infty$
Forward transformation	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Power density scaling	-	R	$\sqrt{3}$	1.732	1	-	$\infty$
Spatial averaging	0.10	R	$\sqrt{3}$	1.732	1	0.06	$\infty$
System detection limit	0.04	R	$\sqrt{3}$	1.732	1	0.02	$\infty$
<b>Uncertainty terms dependent on the DUT and environmental factors</b>							
Probe coupling with DUT	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Modulation response	0.40	R	$\sqrt{3}$	1.732	1	0.23	$\infty$
Integration time	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Response time	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Device holder influence	0.10	R	$\sqrt{3}$	1.732	1	0.06	$\infty$
DUT alignment	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
RF ambient conditions	0.04	R	$\sqrt{3}$	1.732	1	0.02	$\infty$
Ambient reflections	0.04	R	$\sqrt{3}$	1.732	1	0.02	$\infty$
Immunity / secondary reception	0.00	R	$\sqrt{3}$	1.732	1	0.00	$\infty$
Drift of the DUT	-	R	$\sqrt{3}$	1.732	1	-	$\infty$
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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## 12 SAR MEASUREMENT RESULTS

ID: 001

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11b\_Body\_Bottom Surface\_CH 11\_0mm\_Main

Ambient temperature: 22.5°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	2462.0, 11	7.45	1.875	39.735

### Hardware Setup

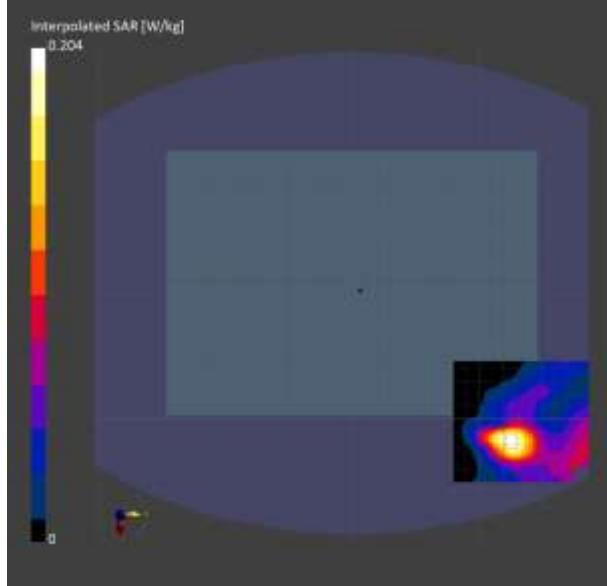
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

### 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	2024-11-24	2024-11-24
psSAR1g [W/kg]	0.166	0.178
psSAR8g [W/kg]	0.093	0.100
psSAR10g [W/kg]	0.085	0.092
Power Drift [dB]	-0.04	0.03
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		10.0



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ID: 002

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11n(20M) 5.2G\_Body\_Bottom Surface\_CH 40\_0mm\_Main

Ambient temperature: 22.1°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	5200.0, 40	5.62	4.753	36.536

**Hardware Setup**

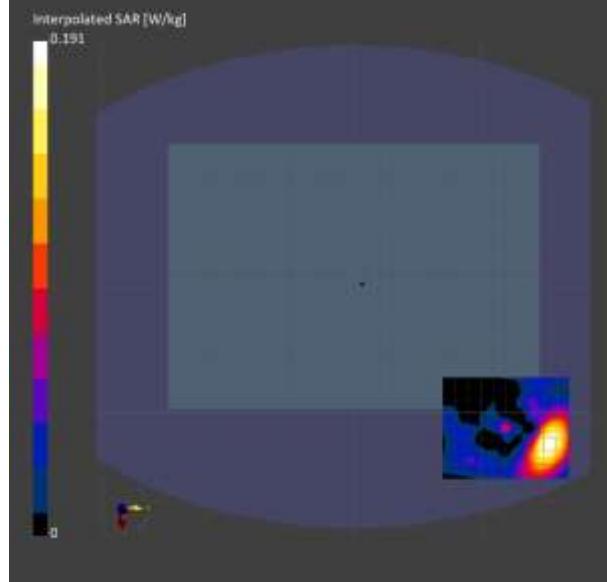
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 100.0	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	2024-11-25	2024-11-25
psSAR1g [W/kg]	0.142	0.129
psSAR8g [W/kg]	0.065	0.059
psSAR10g [W/kg]	0.059	0.054
Power Drift [dB]	-0.04	0.05
M2/M1 [%]		60.3
Dist 3dB Peak [mm]		12.2



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ID: 004

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11n(40M) 5.3G\_Body\_Bottom Surface\_CH 54\_0mm\_Main

Ambient temperature: 22.1°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	5270.0, 54	5.62	4.826	36.456

**Hardware Setup**

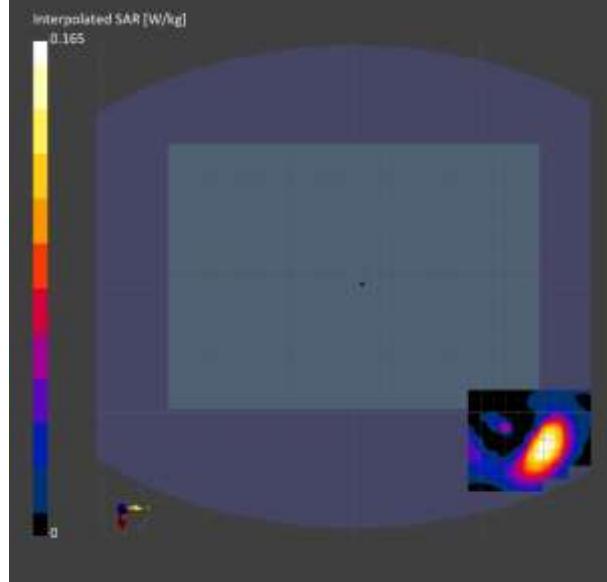
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 100.0	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	2024-11-25	2024-11-25
psSAR1g [W/kg]	0.123	0.121
psSAR8g [W/kg]	0.056	0.057
psSAR10g [W/kg]	0.051	0.051
Power Drift [dB]	0.04	0.03
M2/M1 [%]		60.2
Dist 3dB Peak [mm]		10.3



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ID: 005

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(80M) 5.6G\_Body\_Bottom Surface\_CH 138\_0mm\_Main

Ambient temperature: 22.7°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	5690.0, 138	5.21	5.265	35.976

**Hardware Setup**

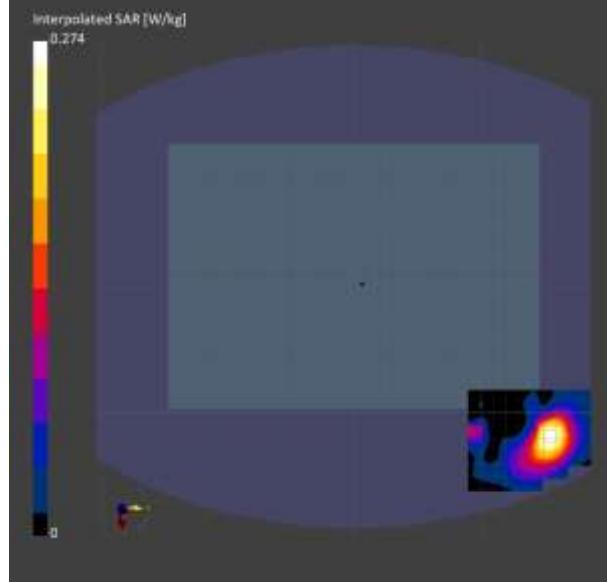
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 100.0	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	2024-11-26	2024-11-26
psSAR1g [W/kg]	0.209	0.196
psSAR8g [W/kg]	0.095	0.086
psSAR10g [W/kg]	0.085	0.077
Power Drift [dB]	0.03	0.05
M2/M1 [%]		52.6
Dist 3dB Peak [mm]		9.7



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ID: 006

Report No. :TESA2411000729E5

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

Ambient temperature: 22.7°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	5775.0, 155	5.20	5.354	35.879

**Hardware Setup**

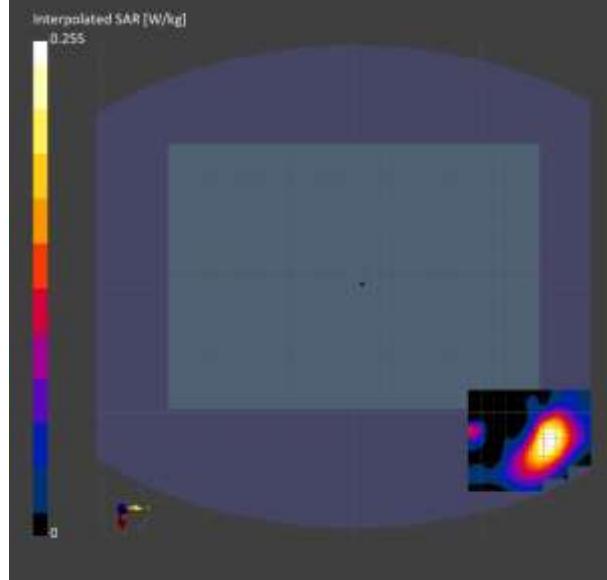
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 100.0	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	2024-11-26	2024-11-26
psSAR1g [W/kg]	0.194	0.180
psSAR8g [W/kg]	0.089	0.082
psSAR10g [W/kg]	0.080	0.075
Power Drift [dB]	-0.05	0.02
M2/M1 [%]		53.5
Dist 3dB Peak [mm]		12.5



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ID: 007

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(80M) 5.9G\_Body\_Bottom Surface\_CH 171\_0mm\_Main

Ambient temperature: 22.7°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	5855.0, 171	5.20	5.438	35.787

**Hardware Setup**

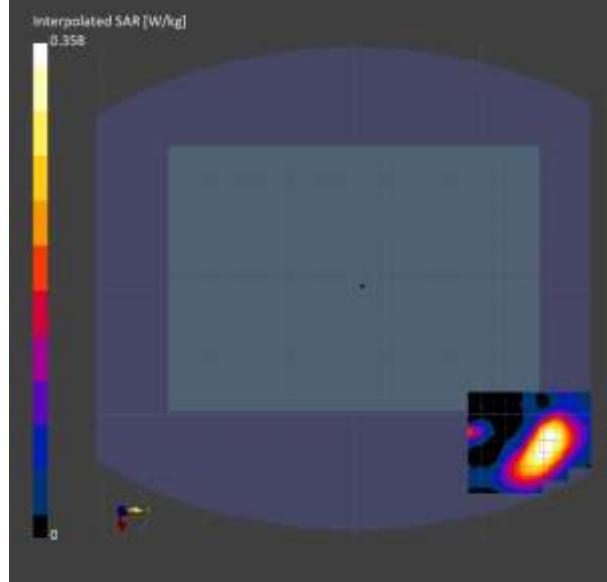
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 100.0	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	2024-11-26	2024-11-26
psSAR1g [W/kg]	0.276	0.265
psSAR8g [W/kg]	0.130	0.124
psSAR10g [W/kg]	0.118	0.113
Power Drift [dB]	-0.03	0.03
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		11.6



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ID: 008

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11b\_Body\_Bottom Surface\_CH 6\_0mm\_Aux

Ambient temperature: 22.5°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	2437.0, 6	7.45	1.853	39.773

**Hardware Setup**

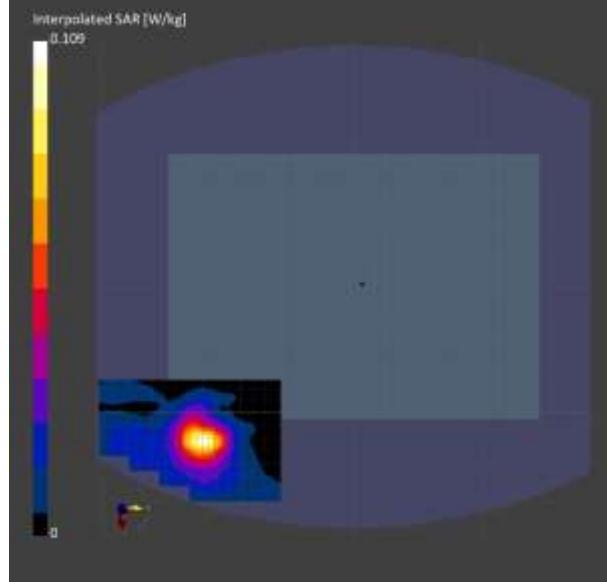
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 144.0	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	2024-11-24	2024-11-24
psSAR1g [W/kg]	0.083	0.086
psSAR8g [W/kg]	0.045	0.049
psSAR10g [W/kg]	0.041	0.046
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		59.1
Dist 3dB Peak [mm]		9.1



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ID: 009

Report No. :TESA2411000729E5

**Measurement Report\_Bluetooth(GFSK)\_Body\_Bottom Surface\_CH 39\_0mm\_Aux**

Ambient temperature: 22.5°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	2441.0, 39	7.45	1.856	39.766

**Hardware Setup**

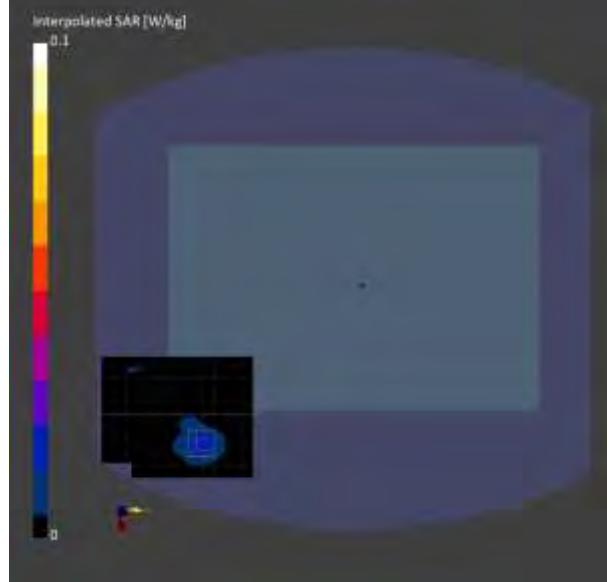
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-24	2024-11-24
psSAR1g [W/kg]	0.017	0.015
psSAR8g [W/kg]	0.009	0.008
psSAR10g [W/kg]	0.009	0.007
Power Drift [dB]	0.04	0.02
M2/M1 [%]		61.7
Dist 3dB Peak [mm]		7.0



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Report No. :TESA2411000729E5

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

Ambient temperature: 22.1°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	5230.0, 46	5.62	4.784	36.501

**Hardware Setup**

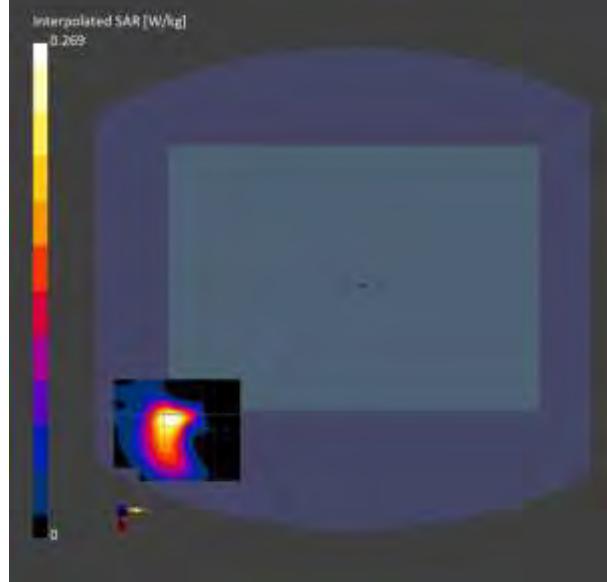
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 100.0	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	2024-11-25	2024-11-25
psSAR1g [W/kg]	0.198	0.206
psSAR8g [W/kg]	0.088	0.091
psSAR10g [W/kg]	0.079	0.080
Power Drift [dB]	0.04	-0.05
M2/M1 [%]		56.0
Dist 3dB Peak [mm]		7.6



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ID: 012

Report No. :TESA2411000729E5

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

Ambient temperature: 22.1°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	5270.0, 54	5.62	4.826	36.456

**Hardware Setup**

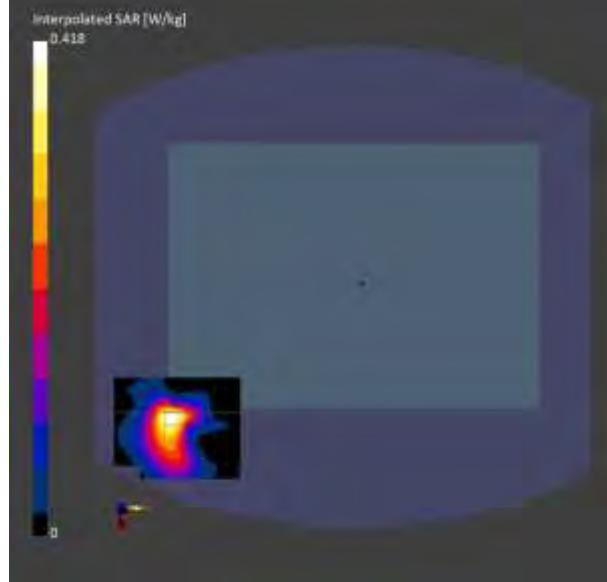
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 100.0	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	2024-11-25	2024-11-25
psSAR1g [W/kg]	0.306	0.313
psSAR8g [W/kg]	0.136	0.138
psSAR10g [W/kg]	0.123	0.121
Power Drift [dB]	-0.03	0.03
M2/M1 [%]		56.2
Dist 3dB Peak [mm]		9.4



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ID: 013

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11n(40M) 5.6G\_Body\_Bottom Surface\_CH 118\_0mm\_Aux

Ambient temperature: 22.1°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	5590.0, 118	5.13	5.161	36.090

**Hardware Setup**

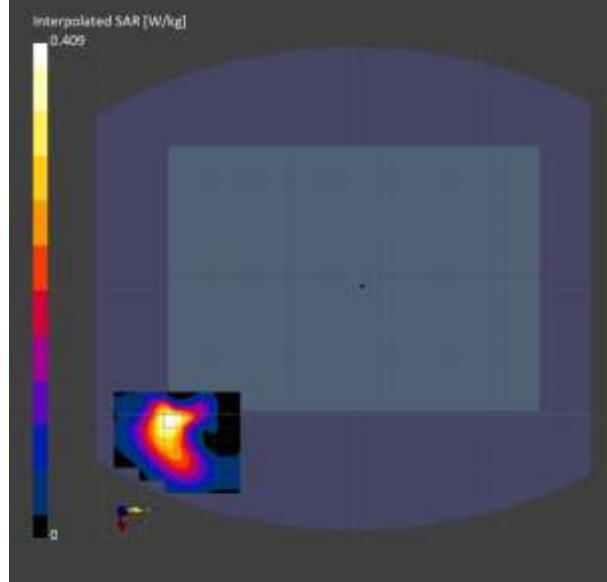
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 100.0	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	2024-11-25	2024-11-25
psSAR1g [W/kg]	0.307	0.323
psSAR8g [W/kg]	0.139	0.143
psSAR10g [W/kg]	0.126	0.128
Power Drift [dB]	-0.05	0.02
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		8.7



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ID: 014

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11n(40M) 5.8G\_Body\_Bottom Surface\_CH 159\_0mm\_Aux

Ambient temperature: 22.7°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	5795.0, 159	5.20	5.375	35.856

**Hardware Setup**

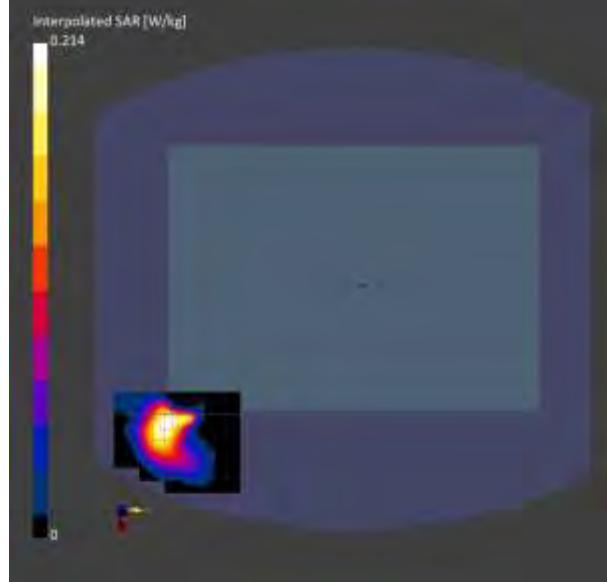
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 100.0	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	2024-11-26	2024-11-26
psSAR1g [W/kg]	0.162	0.163
psSAR8g [W/kg]	0.073	0.072
psSAR10g [W/kg]	0.067	0.063
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		9.4



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ID: 015

Report No. :TESA2411000729E5

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

Ambient temperature: 22.7°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	5855.0, 171	5.20	5.438	35.787

**Hardware Setup**

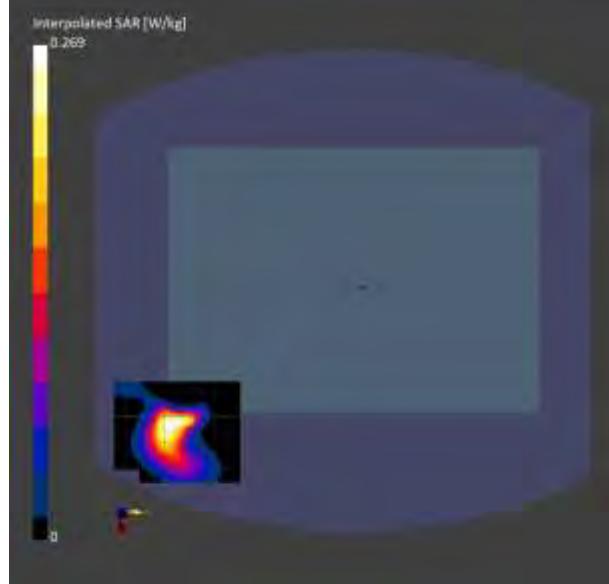
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 x 100.0	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	2024-11-26	2024-11-26
psSAR1g [W/kg]	0.203	0.209
psSAR8g [W/kg]	0.091	0.090
psSAR10g [W/kg]	0.082	0.079
Power Drift [dB]	-0.03	0.04
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		8.7



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ID: 016

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11b\_Body\_Right Edge\_CH 6\_0mm\_Main

Ambient temperature: 22.5°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	Right Edge, 0.00	2437.0, 6	7.45	1.853	39.773

**Hardware Setup**

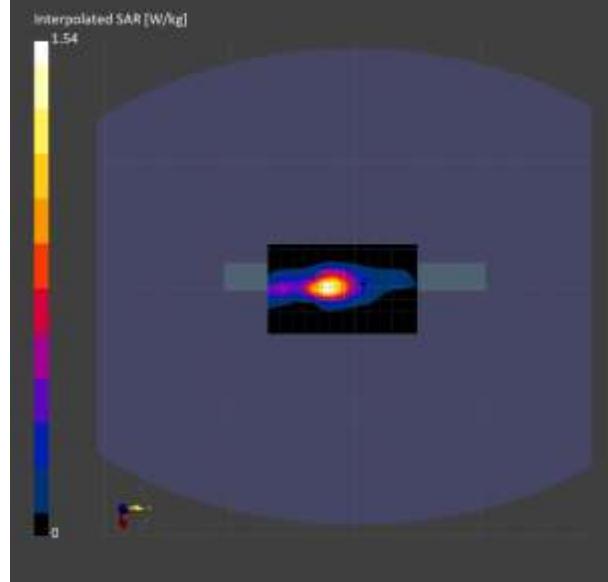
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 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	2024-11-24	2024-11-24
psSAR1g [W/kg]	1.15	1.10
psSAR8g [W/kg]	0.566	0.551
psSAR10g [W/kg]	0.509	0.497
Power Drift [dB]	-0.02	-0.05
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		7.3



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Member of SGS Group

ID: 017

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(160M) 5.2G\_Body\_Right Edge\_CH 50\_0mm\_Main

Ambient temperature: 22.1°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	Right Edge, 0.00	5250.0, 50	5.62	4.805	36.479

**Hardware Setup**

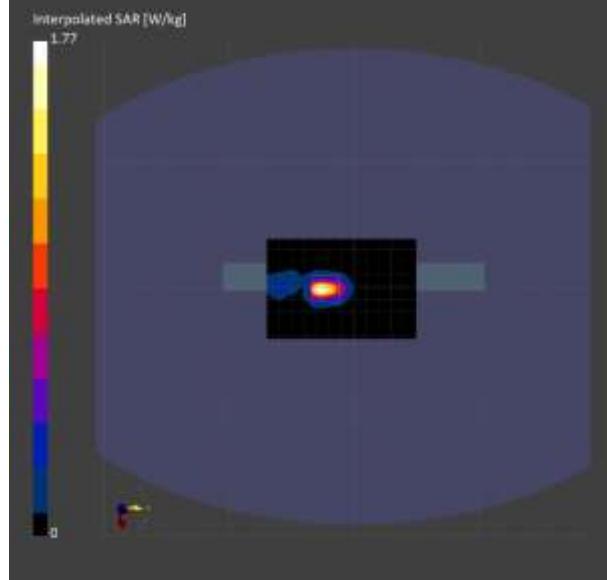
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-25	2024-11-25
psSAR1g [W/kg]	1.08	1.01
psSAR8g [W/kg]	0.382	0.307
psSAR10g [W/kg]	0.331	0.255
Power Drift [dB]	0.01	-0.03
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		5.4



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ID: 018

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(80M) 5.3G\_Body\_Right Edge\_CH 58\_0mm\_Main

Ambient temperature: 22.1°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	Right Edge, 0.00	5290.0, 58	5.62	4.847	36.433

**Hardware Setup**

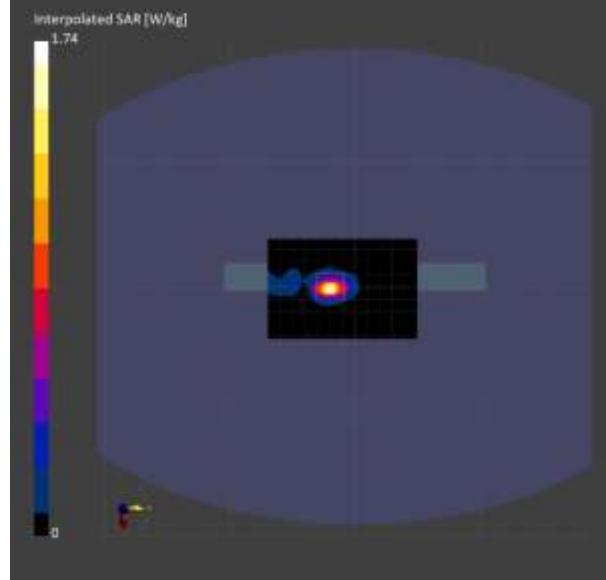
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-25	2024-11-25
psSAR1g [W/kg]	1.05	1.02
psSAR8g [W/kg]	0.344	0.377
psSAR10g [W/kg]	0.297	0.324
Power Drift [dB]	-0.02	0.04
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		5.4



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ID: 019

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(160M) 5.6G\_Body\_Right Edge\_CH 114\_0mm\_Main

Ambient temperature: 22.1°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	Right Edge, 0.00	5570.0, 114	5.13	5.140	36.113

**Hardware Setup**

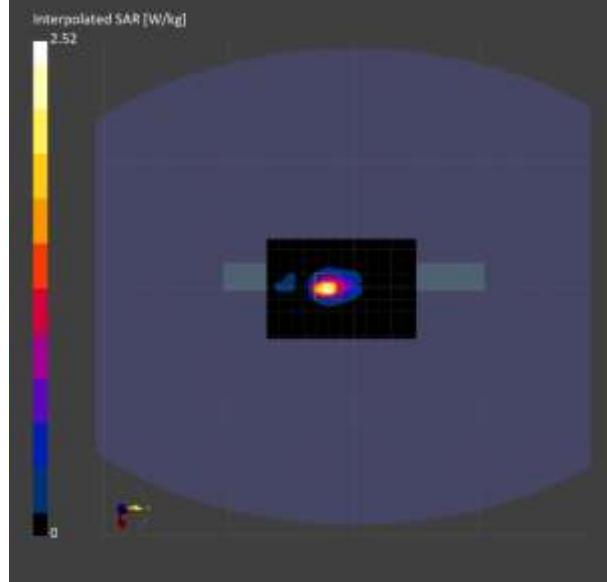
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-25	2024-11-25
psSAR1g [W/kg]	1.11	1.05
psSAR8g [W/kg]	0.526	0.339
psSAR10g [W/kg]	0.454	0.288
Power Drift [dB]	-0.03	0.02
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		5.4



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ID: 021

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(80M) 5.8G\_Body\_Right Edge\_CH 155\_0mm\_Main

Ambient temperature: 22.7°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	Right Edge, 0.00	5775.0, 155	5.20	5.354	35.879

**Hardware Setup**

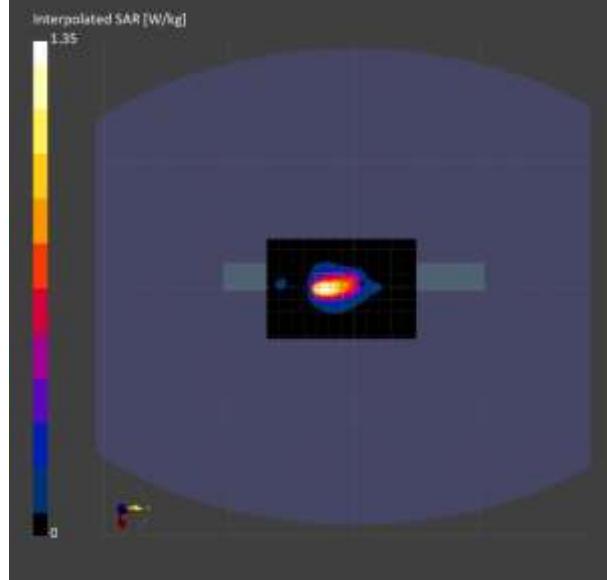
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-26	2024-11-26
psSAR1g [W/kg]	0.960	1.03
psSAR8g [W/kg]	0.352	0.337
psSAR10g [W/kg]	0.310	0.295
Power Drift [dB]	-0.03	-0.04
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		5.4



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ID: 022

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(160M) 5.9G\_Body\_Right Edge\_CH 163\_0mm\_Main

Ambient temperature: 22.7°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	Right Edge, 0.00	5815.0, 163	5.20	5.396	35.833

**Hardware Setup**

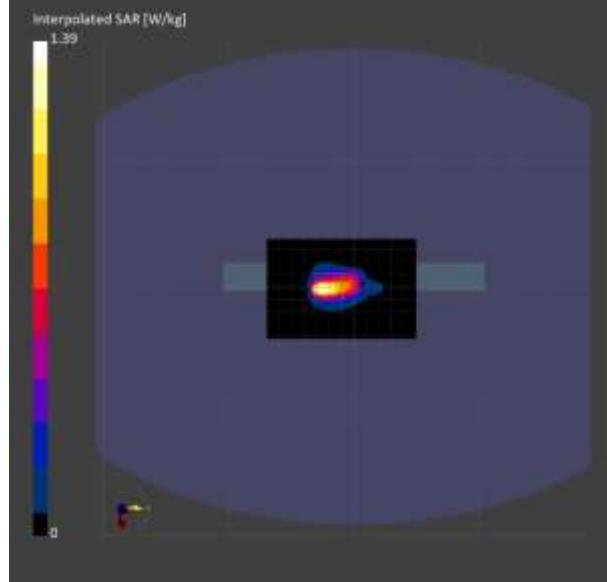
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-26	2024-11-26
psSAR1g [W/kg]	0.942	1.08
psSAR8g [W/kg]	0.342	0.361
psSAR10g [W/kg]	0.301	0.316
Power Drift [dB]	-0.01	-0.03
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		5.7



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ID: 023

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11b\_Body\_Left Edge\_CH 6\_0mm\_Aux

Ambient temperature: 22.5°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	Left Edge, 0.00	2437.0, 6	7.45	1.853	39.773

**Hardware Setup**

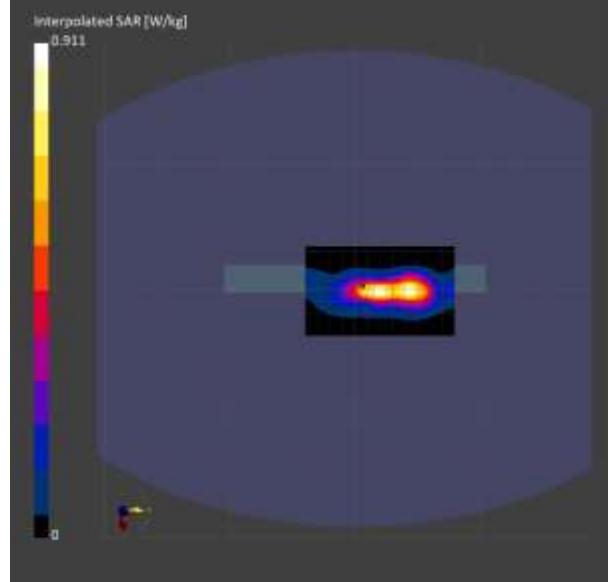
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 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	2024-11-24	2024-11-24
psSAR1g [W/kg]	0.659	0.706
psSAR8g [W/kg]	0.337	0.377
psSAR10g [W/kg]	0.306	0.344
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		61.0
Dist 3dB Peak [mm]		10.0



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ID: 024

Report No. :TESA2411000729E5

Measurement Report\_Bluetooth (GFSK)\_Body\_Left Edge\_CH 39\_0mm\_Aux

Ambient temperature: 22.5°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	Left Edge, 0.00	2441.0, 39	7.45	1.856	39.766

**Hardware Setup**

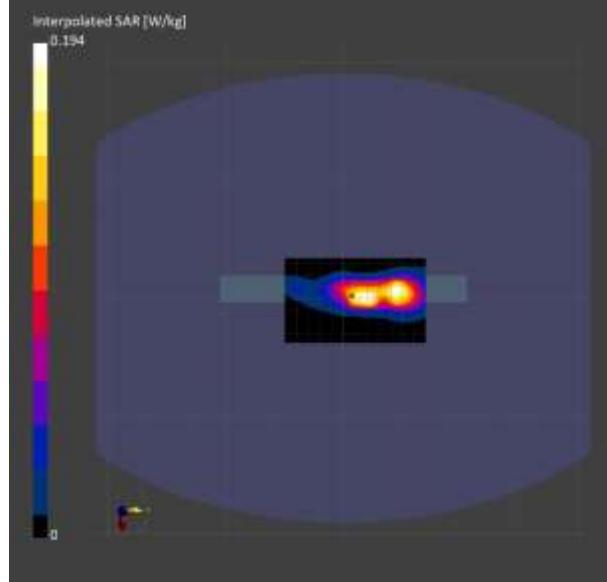
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	70.0 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	2024-11-24	2024-11-24
psSAR1g [W/kg]	0.149	0.195
psSAR8g [W/kg]	0.078	0.080
psSAR10g [W/kg]	0.071	0.071
Power Drift [dB]	0.03	0.05
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		5.2



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ID: 025

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(160M) 5.2G\_Body\_Left Edge\_CH 50\_0mm\_Aux

Ambient temperature: 22.1°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	Left Edge, 0.00	5250.0, 50	5.62	4.805	36.479

**Hardware Setup**

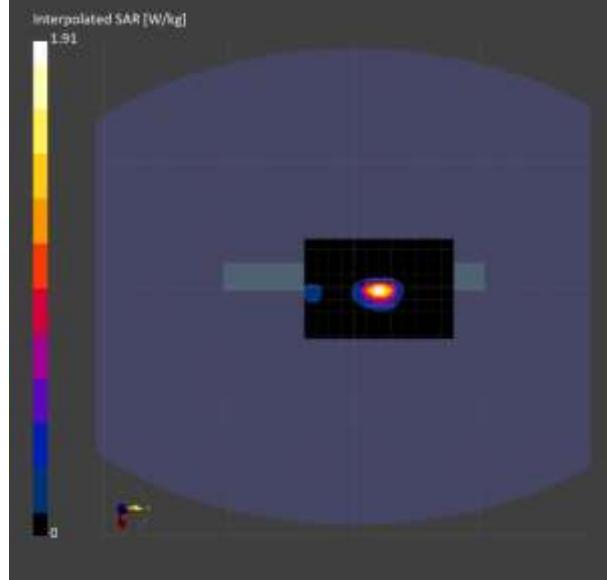
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-25	2024-11-25
psSAR1g [W/kg]	1.21	1.04
psSAR8g [W/kg]	0.417	0.322
psSAR10g [W/kg]	0.360	0.275
Power Drift [dB]	0.04	-0.03
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		4.0



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ID: 026

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(80M) 5.3G\_Body\_Left Edge\_CH 58\_0mm\_Aux

Ambient temperature: 22.1°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	Left Edge, 0.00	5290.0, 58	5.62	4.847	36.433

**Hardware Setup**

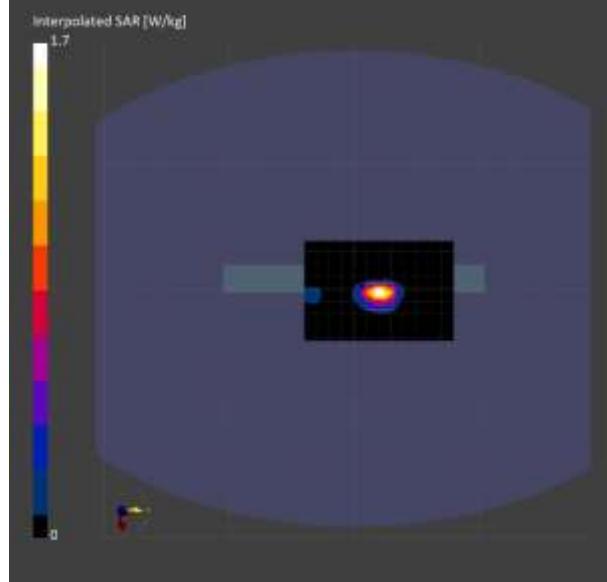
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-25	2024-11-25
psSAR1g [W/kg]	0.968	0.997
psSAR8g [W/kg]	0.375	0.363
psSAR10g [W/kg]	0.324	0.310
Power Drift [dB]	0.05	-0.04
M2/M1 [%]		53.3
Dist 3dB Peak [mm]		4.0



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ID: 027

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(160M) 5.6G\_Body\_Left Edge\_CH 114\_0mm\_Aux

Ambient temperature: 22.1°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	Left Edge, 0.00	5570.0, 114	5.13	5.140	36.113

**Hardware Setup**

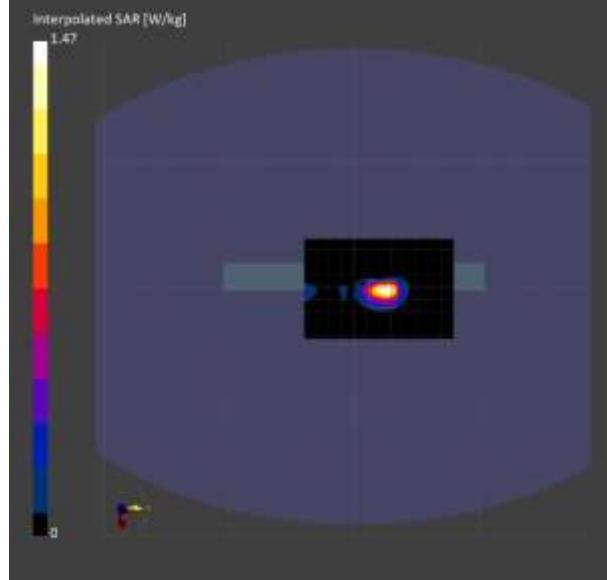
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-25	2024-11-25
psSAR1g [W/kg]	0.985	0.993
psSAR8g [W/kg]	0.340	0.350
psSAR10g [W/kg]	0.293	0.299
Power Drift [dB]	0.04	-0.04
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		4.8



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ID: 029

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(80M) 5.8G\_Body\_Left Edge\_CH 155\_0mm\_Aux

Ambient temperature: 22.7°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	Left Edge, 0.00	5775.0, 155	5.20	5.354	35.879

**Hardware Setup**

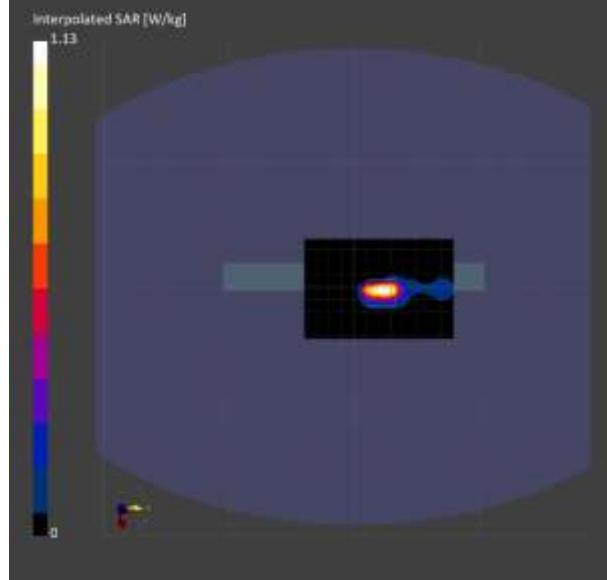
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-26	2024-11-26
psSAR1g [W/kg]	0.848	0.912
psSAR8g [W/kg]	0.254	0.235
psSAR10g [W/kg]	0.220	0.201
Power Drift [dB]	0.04	-0.02
M2/M1 [%]		54.9
Dist 3dB Peak [mm]		4.0



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ID: 030

Report No. :TESA2411000729E5

Measurement Report\_WLAN 802.11ac(160M) 5.9G\_Body\_Left Edge\_CH 163\_0mm\_Aux

Ambient temperature: 22.7°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	Left Edge, 0.00	5815.0, 163	5.20	5.396	35.833

**Hardware Setup**

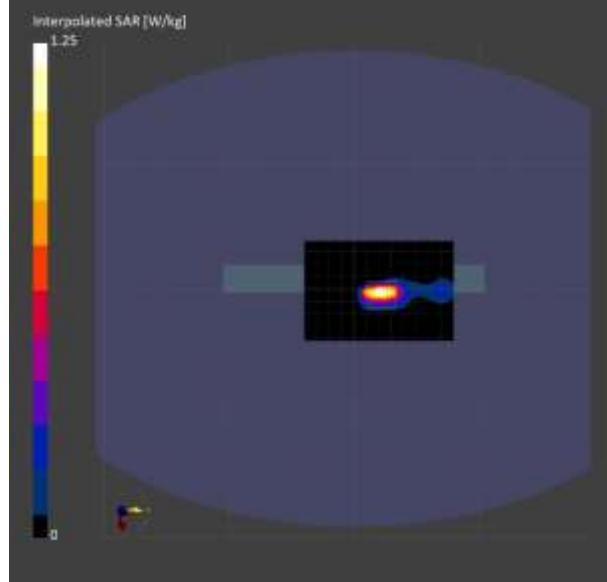
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-26	2024-11-26
psSAR1g [W/kg]	0.818	1.01
psSAR8g [W/kg]	0.280	0.301
psSAR10g [W/kg]	0.242	0.261
Power Drift [dB]	0.05	-0.04
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		4.7



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ID: 031

Report No. :TESA2411000729E5

Measurement Report\_U-NII-5 6.2GHz 802.11ax(80M)\_Body\_Bottom Surface\_CH 7\_0mm\_Main

Ambient temperature: 22.7°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	5985.0, 7	5.38	5.574	35.639

**Hardware Setup**

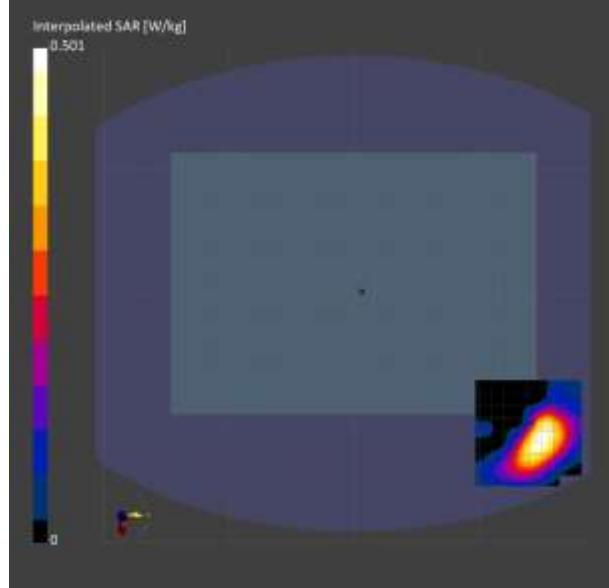
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	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	2024-11-26	2024-11-26
psSAR1g [W/kg]	0.383	0.366
psSAR8g [W/kg]	0.177	0.168
psSAR10g [W/kg]	0.161	0.153
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		3.37
Power Drift [dB]	0.03	0.04
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		11.3



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ID: 032

Report No. :TESA2411000729E5

Measurement Report\_U-NII-6 6.5GHz 802.11be(320M)\_Body\_Bottom Surface\_CH 95\_0mm\_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.6°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	6425.0, 95	5.38	6.042	35.111

**Hardware Setup**

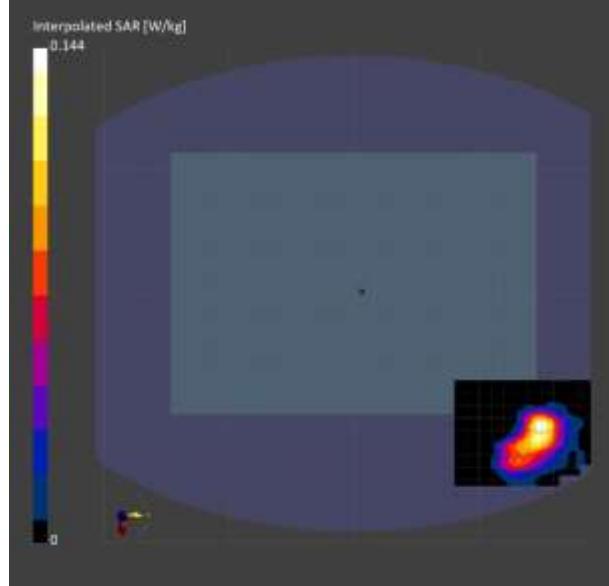
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.110	0.102
psSAR8g [W/kg]	0.048	0.040
psSAR10g [W/kg]	0.043	0.035
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		0.793
Power Drift [dB]	-0.03	-0.03
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		8.0



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ID: 033

Report No. :TESA2411000729E5

Measurement Report\_U-NII-7 6.7GHz 802.11ax(80M)\_Body\_Bottom Surface\_CH 151\_0mm\_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.6°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	6705.0, 151	5.38	6.344	34.775

**Hardware Setup**

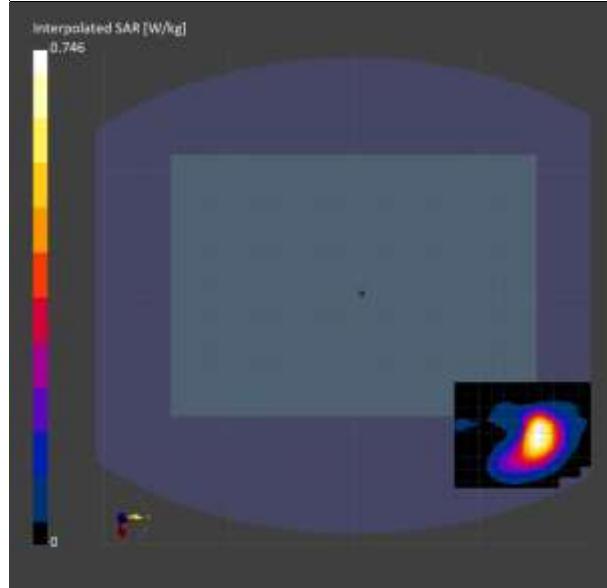
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.618	0.624
psSAR8g [W/kg]	0.271	0.263
psSAR10g [W/kg]	0.244	0.233
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		5.26
Power Drift [dB]	-0.04	-0.01
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		10.1



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ID: 034

Report No. :TESA2411000729E5

Measurement Report\_U-NII-8 7.0GHz 802.11be(320M)\_Body\_Bottom Surface\_CH 191\_0mm\_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.6°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	6905.0, 191	5.66	6.561	34.535

**Hardware Setup**

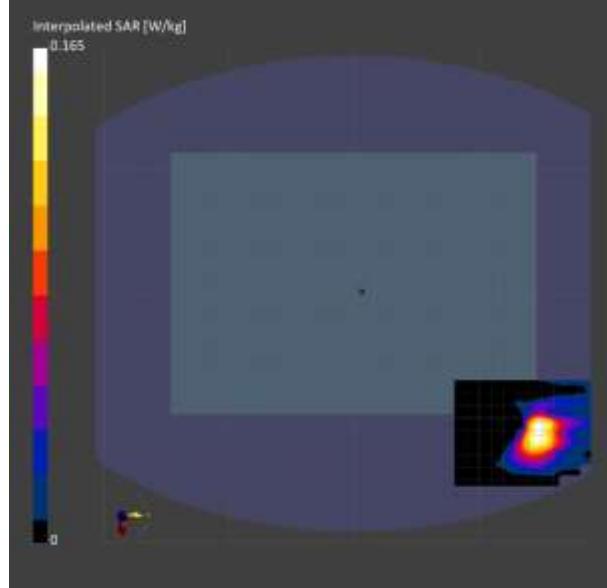
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.136	0.127
psSAR8g [W/kg]	0.061	0.049
psSAR10g [W/kg]	0.055	0.043
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		0.982
Power Drift [dB]	-0.01	-0.04
M2/M1 [%]		52.2
Dist 3dB Peak [mm]		10.7



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ID: 035

Report No. :TESA2411000729E5

Measurement Report\_U-NII-5 6.2GHz 802.11be(320M)\_Body\_Bottom Surface\_CH 31\_0mm\_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.6°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	6105.0, 31	5.38	5.701	35.495

**Hardware Setup**

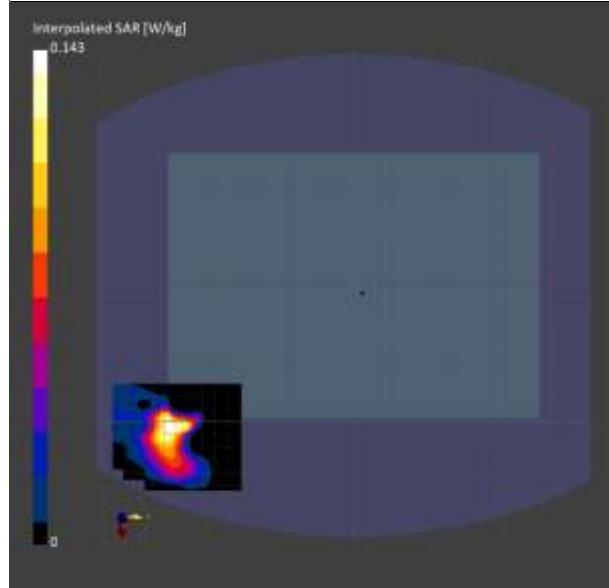
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.108	0.103
psSAR8g [W/kg]	0.048	0.042
psSAR10g [W/kg]	0.043	0.037
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		0.837
Power Drift [dB]	0.05	-0.04
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		7.7



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ID: 036

Report No. :TESA2411000729E5

Measurement Report\_U-NII-6 6.5GHz 802.11be(320M)\_Body\_Bottom Surface\_CH 95\_0mm\_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.6°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	6425.0, 95	5.38	6.042	35.111

**Hardware Setup**

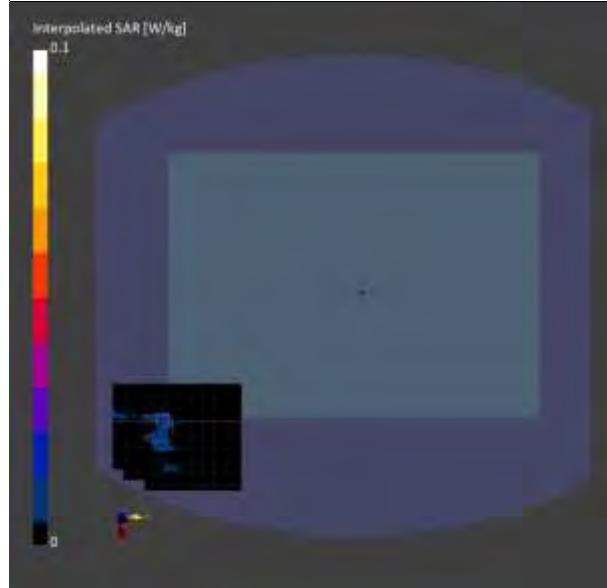
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.013	0.013
psSAR8g [W/kg]	0.004	0.005
psSAR10g [W/kg]	0.004	0.004
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		0.104
Power Drift [dB]	0.04	0.03
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		4.5



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ID: 037

Report No. :TESA2411000729E5

Measurement Report\_U-NII-7 6.7GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 143\_0mm\_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.6°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	6665.0, 143	5.38	6.300	34.823

**Hardware Setup**

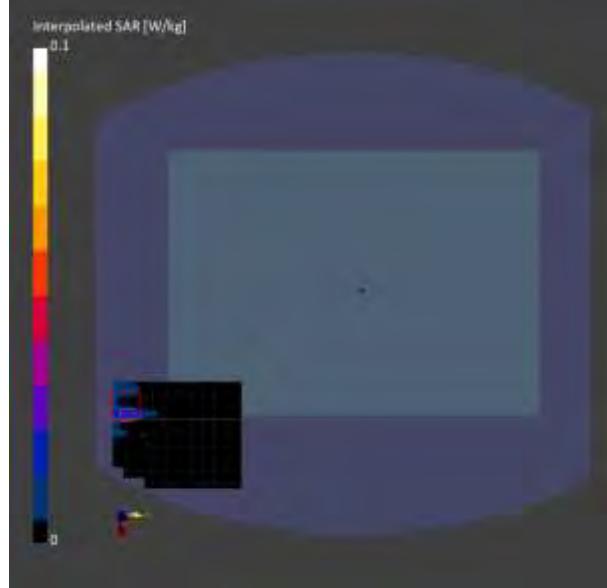
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.018	0.019
psSAR8g [W/kg]	0.006	0.005
psSAR10g [W/kg]	0.005	0.004
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		0.151
Power Drift [dB]	-0.05	0.06
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		4.0



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ID: 038

Report No. :TESA2411000729E5

Measurement Report\_U-NII-8 7.0GHz 802.11be(320M)\_Body\_Bottom Surface\_CH 191\_0mm\_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.6°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	6905.0, 191	5.66	6.561	34.535

**Hardware Setup**

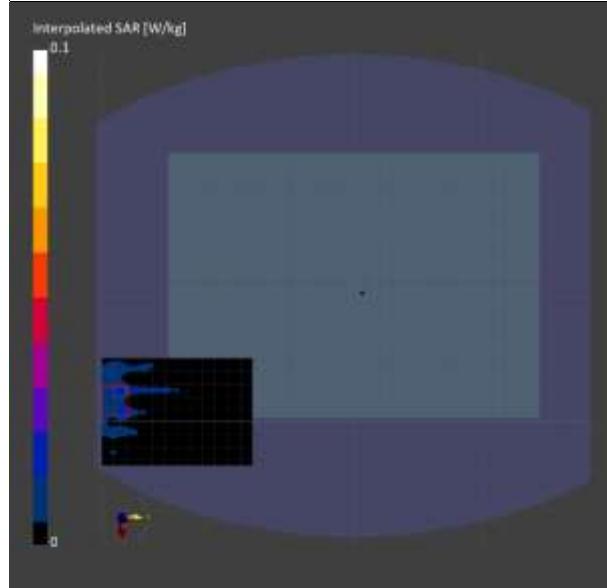
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.016	0.016
psSAR8g [W/kg]	0.007	0.008
psSAR10g [W/kg]	0.006	0.007
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		0.056
Power Drift [dB]	-0.03	0.02
M2/M1 [%]		53.3
Dist 3dB Peak [mm]		4.7



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ID: 039

Report No. :TESA2411000729E5

Measurement Report\_U-NII-5 6.2GHz 802.11be(320M)\_Body\_Right Edge\_CH 31\_0mm\_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6105.0, 31	5.38	5.701	35.495

**Hardware Setup**

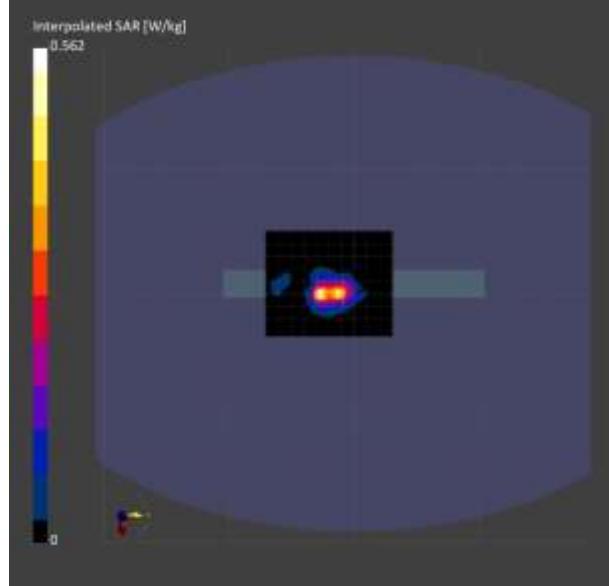
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.606	0.623
psSAR8g [W/kg]	0.164	0.160
psSAR10g [W/kg]	0.160	0.171
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		3.90
Power Drift [dB]	0.02	0.03
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		5.9



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ID: 040

Report No. :TESA2411000729E5

Measurement Report\_U-NII-6 6.5GHz 802.11be(320M)\_Body\_Right Edge\_CH 95\_0mm\_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6425.0, 95	5.38	6.042	35.111

**Hardware Setup**

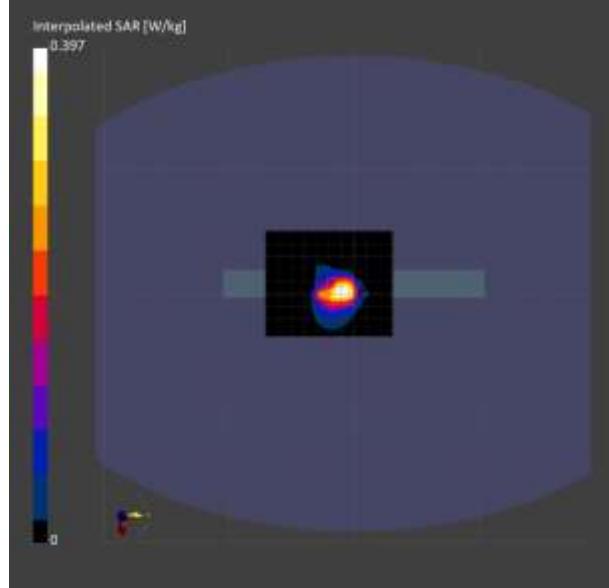
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.406	0.585
psSAR8g [W/kg]	0.116	0.145
psSAR10g [W/kg]	0.152	0.175
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		3.80
Power Drift [dB]	0.03	-0.03
M2/M1 [%]		54.5
Dist 3dB Peak [mm]		6.7



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ID: 041

Report No. :TESA2411000729E5

Measurement Report\_U-NII-7 6.7GHz 802.11be(320M)\_Body\_Right Edge\_CH 127\_0mm\_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6585.0, 127	5.38	6.214	34.919

**Hardware Setup**

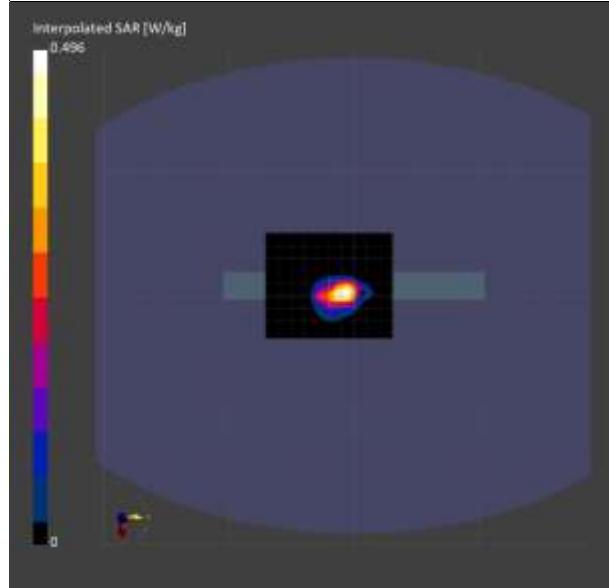
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.484	0.577
psSAR8g [W/kg]	0.148	0.163
psSAR10g [W/kg]	0.131	0.144
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		3.75
Power Drift [dB]	0.01	-0.02
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		5.7



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ID: 042

Report No. :TESA2411000729E5

Measurement Report\_U-NII-8 7.0GHz 802.11be(320M)\_Body\_Right Edge\_CH 191\_0mm\_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6905.0, 191	5.38	6.561	34.535

**Hardware Setup**

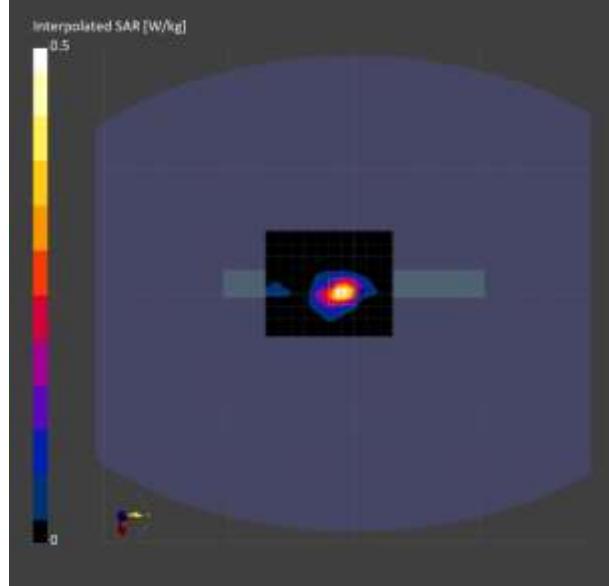
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.373	0.454
psSAR8g [W/kg]	0.132	0.142
psSAR10g [W/kg]	0.115	0.124
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		2.83
Power Drift [dB]	-0.03	0.03
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		5.9



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ID: 043

Report No. :TESA2411000729E5

Measurement Report\_U-NII-5 6.2GHz 802.11be(320M)\_Body\_Left Edge\_CH 63\_0mm\_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6265.0, 63	5.38	5.871	35.303

**Hardware Setup**

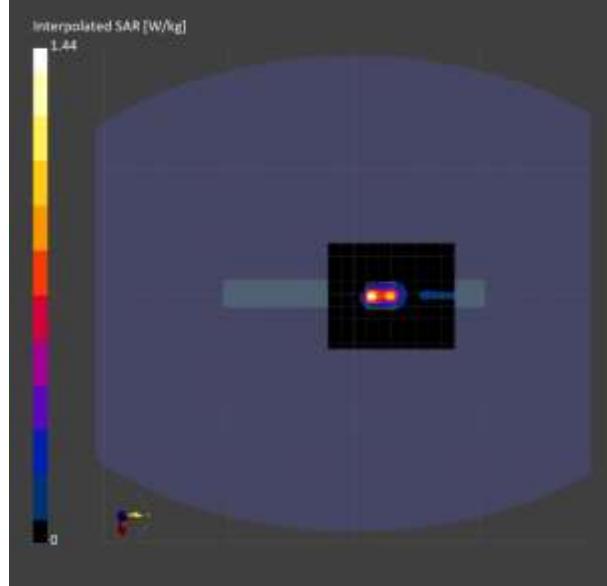
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.763	0.868
psSAR8g [W/kg]	0.243	0.221
psSAR10g [W/kg]	0.212	0.188
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		4.47
Power Drift [dB]	0.03	0.02
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		4.6



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ID: 044

Report No. :TESA2411000729E5

Measurement Report\_U-NII-6 6.5GHz 802.11be(320M)\_Body\_Left Edge\_CH 95\_0mm\_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6425.0, 95	5.38	6.042	35.111

**Hardware Setup**

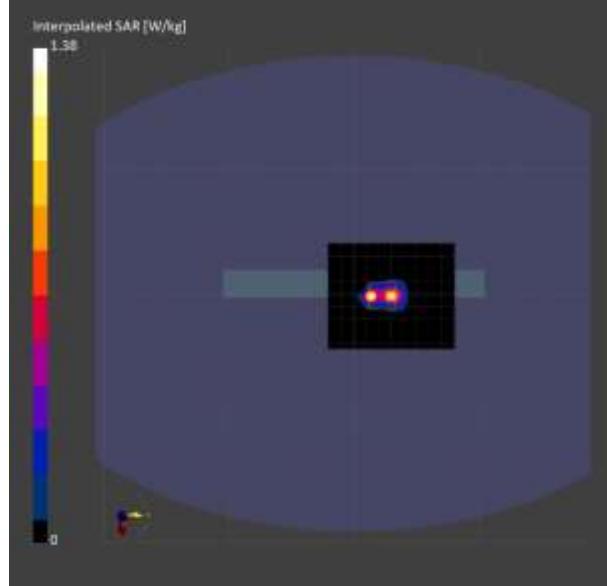
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.896	0.932
psSAR8g [W/kg]	0.231	0.224
psSAR10g [W/kg]	0.206	0.194
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		5.41
Power Drift [dB]	0.03	-0.05
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		5.2



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ID: 045

Report No. :TESA2411000729E5

Measurement Report\_U-NII-7 6.7GHz 802.11be(320M)\_Body\_Left Edge\_CH 159\_0mm\_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6745.0, 159	5.38	6.387	34.727

**Hardware Setup**

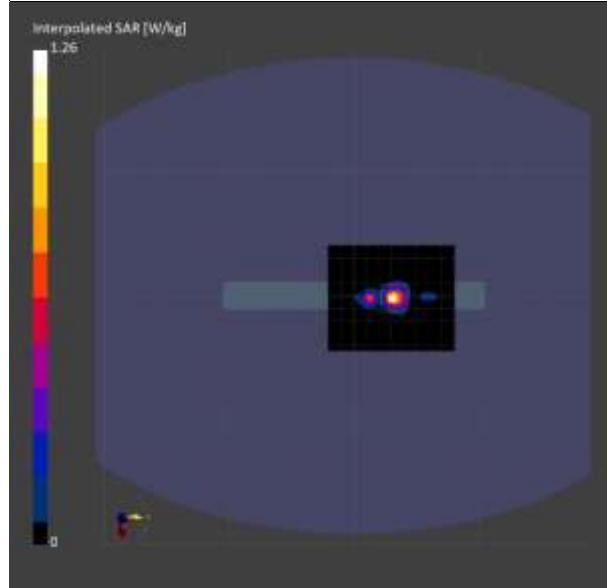
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.758	0.869
psSAR8g [W/kg]	0.204	0.209
psSAR10g [W/kg]	0.172	0.174
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		4.18
Power Drift [dB]	-0.02	-0.01
M2/M1 [%]		52.4
Dist 3dB Peak [mm]		5.2



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ID: 046

Report No. :TESA2411000729E5

Measurement Report\_U-NII-8 7.0GHz 802.11be(320M)\_Body\_Left Edge\_CH 191\_0mm\_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6905.0, 191	5.66	6.561	34.535

**Hardware Setup**

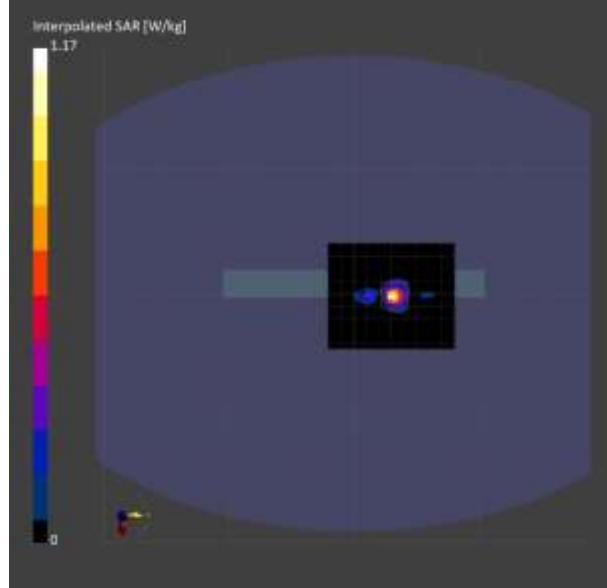
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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	2024-11-27	2024-11-27
psSAR1g [W/kg]	0.703	0.775
psSAR8g [W/kg]	0.185	0.189
psSAR10g [W/kg]	0.155	0.158
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		3.78
Power Drift [dB]	0.02	0.03
M2/M1 [%]		52.0
Dist 3dB Peak [mm]		4.6



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## 13 PD MEASUREMENT RESULTS

ID: 047

Report No. :TESA2411000729E5

Measurement Report\_Right Edge, U-NII-5,

IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 31 (6105.0 MHz)

### Exposure Conditions

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

### Hardware Setup

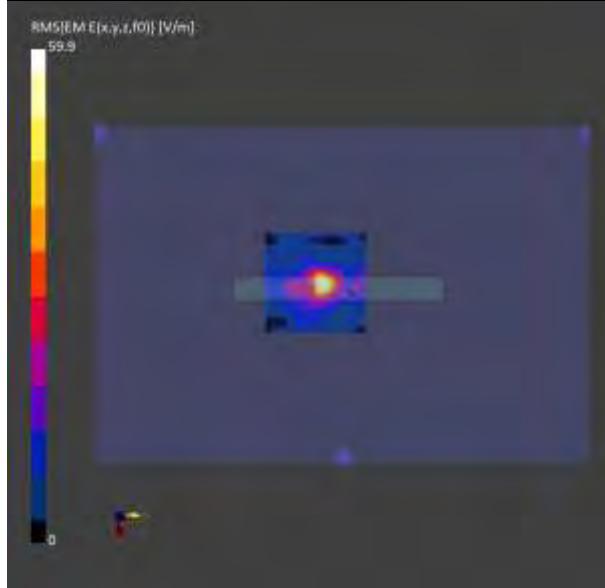
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn1260, 2024-09-19

### 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	2024-11-28
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.38
psPDtot+ [W/m <sup>2</sup> ]	3.09
psPDmod+ [W/m <sup>2</sup> ]	3.61
E <sub>max</sub> [V/m]	59.9
Power Drift [dB]	-0.02



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ID: 048

Report No. :TESA2411000729E5

Measurement Report\_Right Edge, U-NII-5,

IEEE 802.11ax (320MHz, MCS0, 90pc duty cycle), Channel 63 (6265.0 MHz)

Exposure Conditions

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

**Hardware Setup**

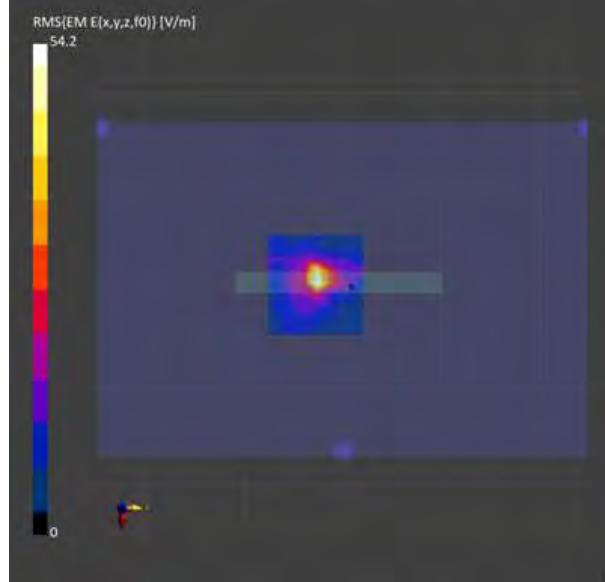
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn1260, 2024-09-19

**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	2024-11-28
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.58
psPDtot+ [W/m <sup>2</sup> ]	2.75
psPDmod+ [W/m <sup>2</sup> ]	3.20
E <sub>max</sub> [V/m]	54.3
Power Drift [dB]	-0.05



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Member of SGS Group

ID: 049

Report No. :TESA2411000729E5

Measurement Report\_Right Edge, U-NII-6,

IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 95 (6425.0 MHz)

Exposure Conditions

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

**Hardware Setup**

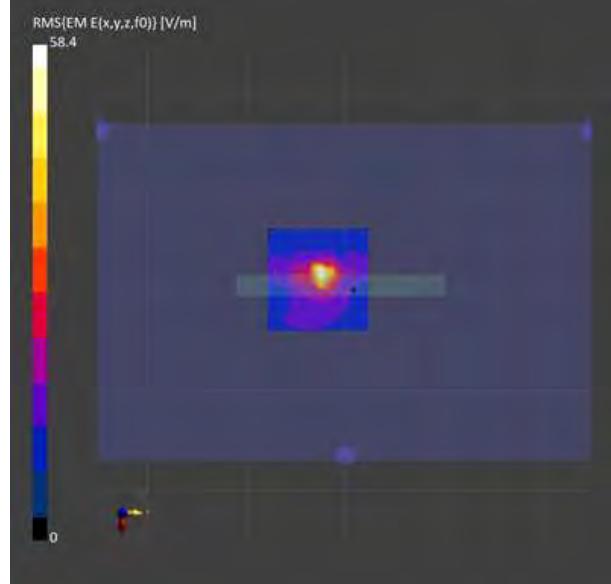
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn1260, 2024-09-19

**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	2024-11-28
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.26
psPDTot+ [W/m <sup>2</sup> ]	2.29
psPDmod+ [W/m <sup>2</sup> ]	2.53
E <sub>max</sub> [V/m]	58.4
Power Drift [dB]	0.02



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ID: 050

Report No. :TESA2411000729E5

Measurement Report\_Right Edge, U-NII-7,

IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 127 (6585.0 MHz)

Exposure Conditions

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

**Hardware Setup**

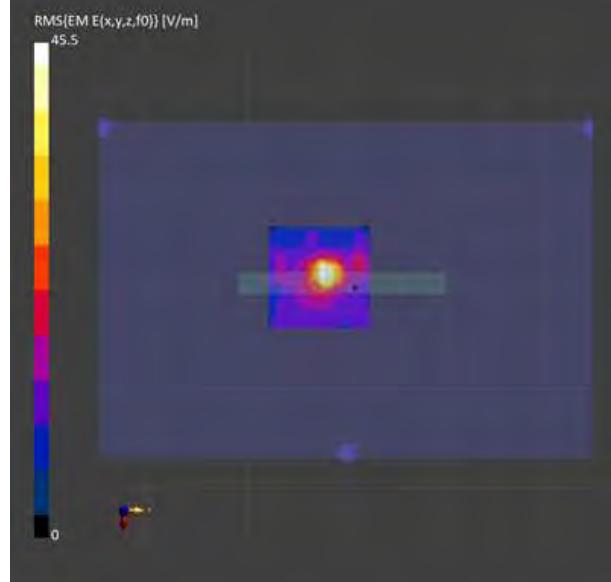
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn1260, 2024-09-19

**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	2024-11-28
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.61
psPDTot+ [W/m <sup>2</sup> ]	2.55
psPDmod+ [W/m <sup>2</sup> ]	2.75
E <sub>max</sub> [V/m]	55.5
Power Drift [dB]	-0.02



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ID: 051

Report No. :TESA2411000729E5

Measurement Report\_Right Edge, U-NII-8,

IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 191 (6905.0 MHz)

**Exposure Conditions**

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

**Hardware Setup**

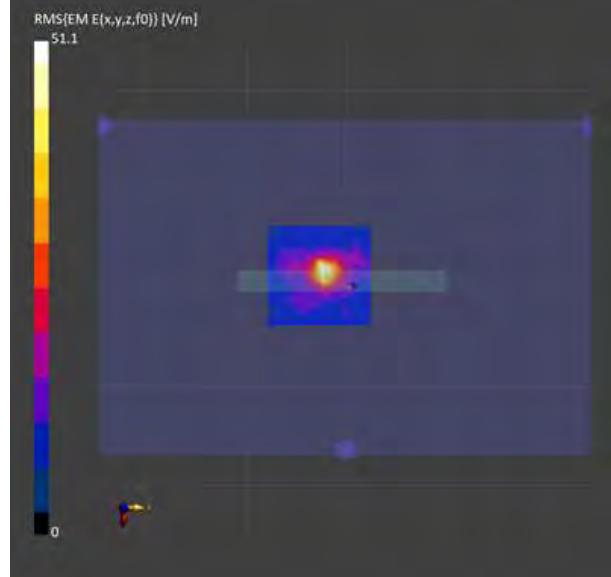
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn1260, 2024-09-19

**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	2024-11-28
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.80
psPDTot+ [W/m <sup>2</sup> ]	2.26
psPDmod+ [W/m <sup>2</sup> ]	2.47
E <sub>max</sub> [V/m]	51.1
Power Drift [dB]	-0.05



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ID: 052

Report No. :TESA2411000729E5

Measurement Report\_Left Edge, U-NII-5,

IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 31 (6105.0 MHz)

Exposure Conditions

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

**Hardware Setup**

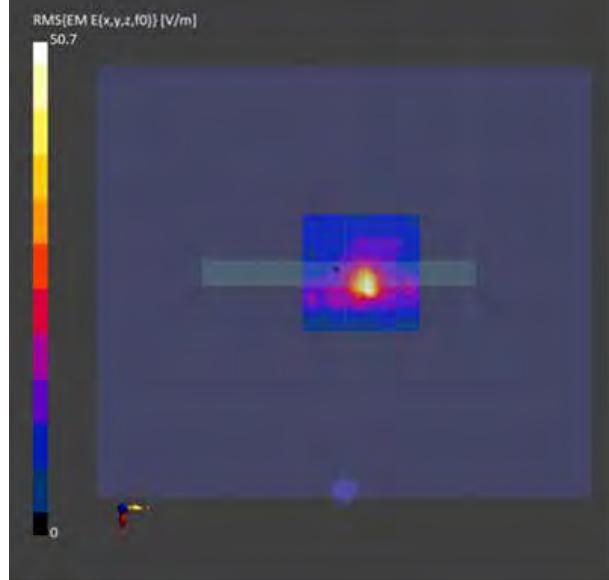
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn547, 2024-01-18

**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	2024-11-29
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.21
psPDtot+ [W/m <sup>2</sup> ]	2.63
psPDmod+ [W/m <sup>2</sup> ]	3.11
E <sub>max</sub> [V/m]	51.5
Power Drift [dB]	0.01



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ID: 053

Report No. :TESA2411000729E5

Measurement Report\_Left Edge, U-NII-5,

IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 63 (6265.0 MHz)

Exposure Conditions

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

**Hardware Setup**

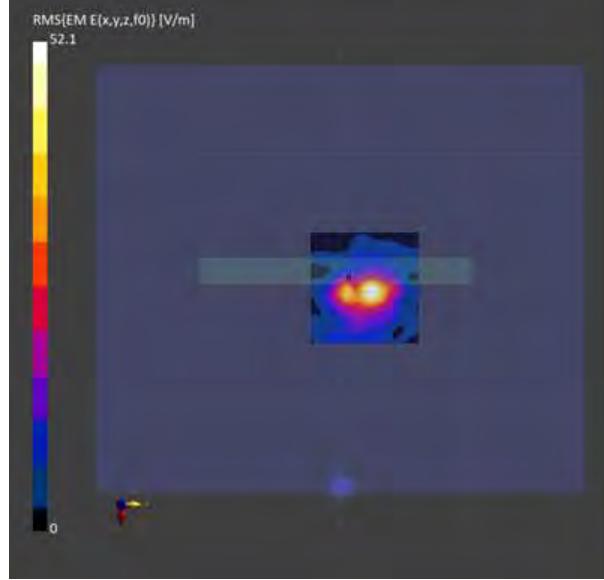
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn547, 2024-01-18

**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	2024-11-29
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.42
psPDtot+ [W/m <sup>2</sup> ]	2.82
psPDmod+ [W/m <sup>2</sup> ]	3.25
E <sub>max</sub> [V/m]	52.1
Power Drift [dB]	0.02



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ID: 054

Report No. :TESA2411000729E5

Measurement Report\_Left Edge, U-NII-6,

IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 95 (6425.0 MHz)

Exposure Conditions

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

**Hardware Setup**

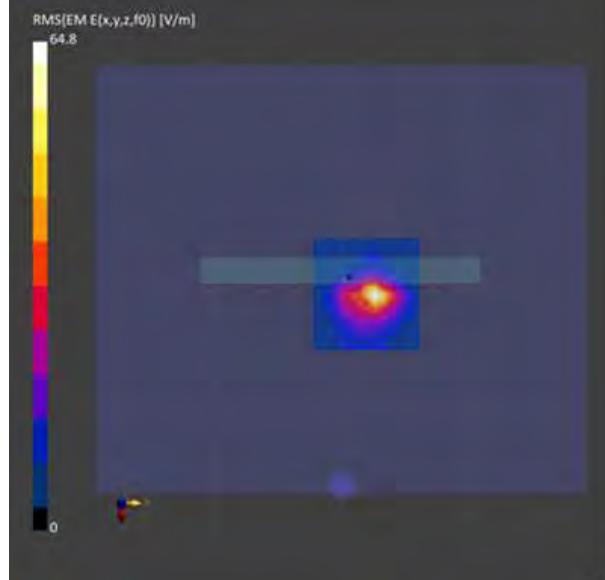
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn547, 2024-01-18

**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	2024-11-29
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.55
psPDTot+ [W/m <sup>2</sup> ]	3.03
psPDmod+ [W/m <sup>2</sup> ]	3.37
E <sub>max</sub> [V/m]	64.8
Power Drift [dB]	0.05



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ID: 055

Report No. :TESA2411000729E5

Measurement Report\_Left Edge, U-NII-7,

IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 159 (6745.0 MHz)

Exposure Conditions

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

**Hardware Setup**

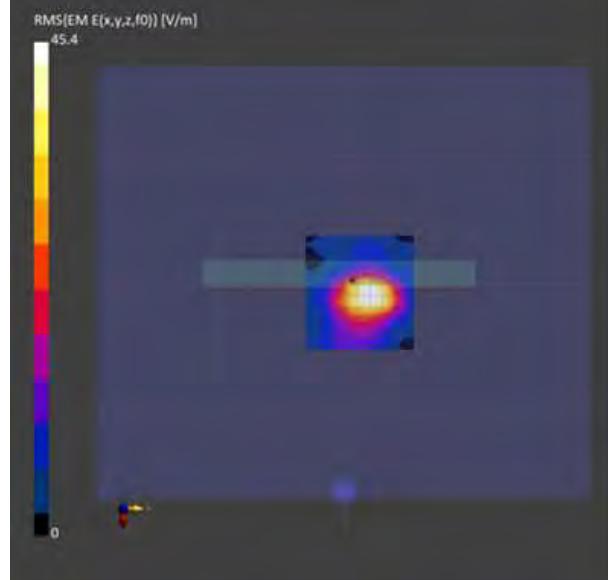
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn547, 2024-01-18

**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	2024-11-29
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.76
psPDTot+ [W/m <sup>2</sup> ]	3.04
psPDmod+ [W/m <sup>2</sup> ]	3.32
E <sub>max</sub> [V/m]	55.4
Power Drift [dB]	-0.02



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ID: 056

Report No. :TESA2411000729E5

Measurement Report\_Left Edge, U-NII-8,

IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 191 (6905.0 MHz)

Exposure Conditions

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

**Hardware Setup**

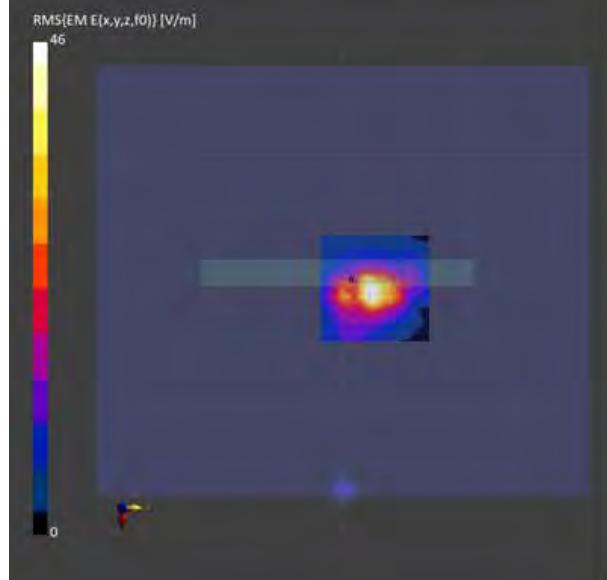
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn547, 2024-01-18

**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	2024-11-29
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.96
psPDtot+ [W/m <sup>2</sup> ]	2.26
psPDmod+ [W/m <sup>2</sup> ]	2.34
E <sub>max</sub> [V/m]	56.0
Power Drift [dB]	0.03



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## 14 SAR SYSTEM CHECK RESULTS

Report No. :TESA2411000729E5

Dipole\_D2450-SN:728

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	7.45	1.864	39.75

### Hardware Setup

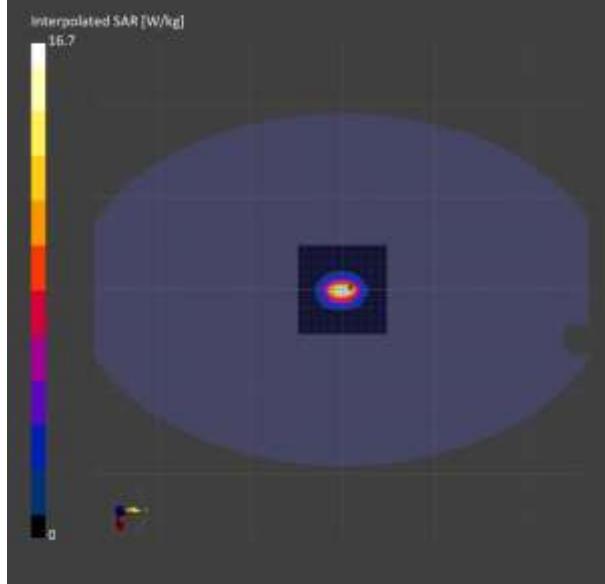
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

### Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 96.0	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	2024-11-24	2024-11-24
psSAR1g [W/kg]	12.6	12.9
psSAR8g [W/kg]	6.45	6.58
psSAR10g [W/kg]	6.13	6.42
Power Drift [dB]	-0.03	-0.02
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		8.7



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Report No. :TESA2411000729E5

**Measurement Report****Dipole\_D5250-SN:1023****Ambient temperature: 22.1°C; Liquid temperature: 21.1°C****Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.62	4.805	36.479

**Hardware Setup**

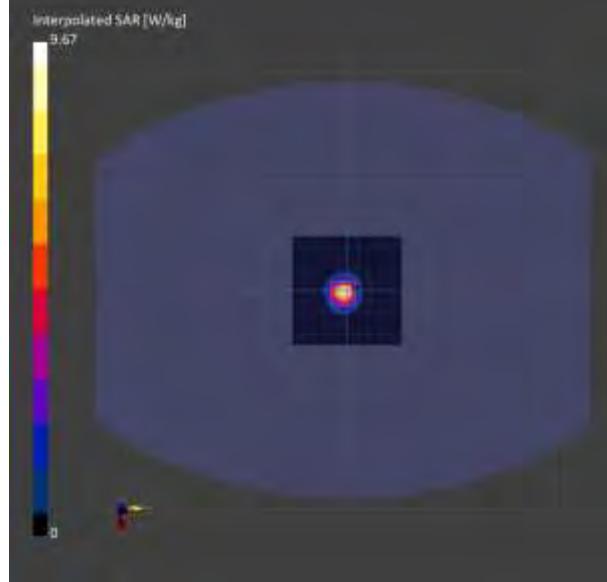
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-11-25	2024-11-25
psSAR1g [W/kg]	6.58	7.92
psSAR8g [W/kg]	2.37	2.71
psSAR10g [W/kg]	2.06	2.35
Power Drift [dB]	0.04	-0.05
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		7.1



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Report No. :TESA2411000729E5

**Measurement Report****Dipole\_D5600-SN:1023****Ambient temperature: 22.1°C; Liquid temperature: 21.1°C****Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.13	5.171	36.079

**Hardware Setup**

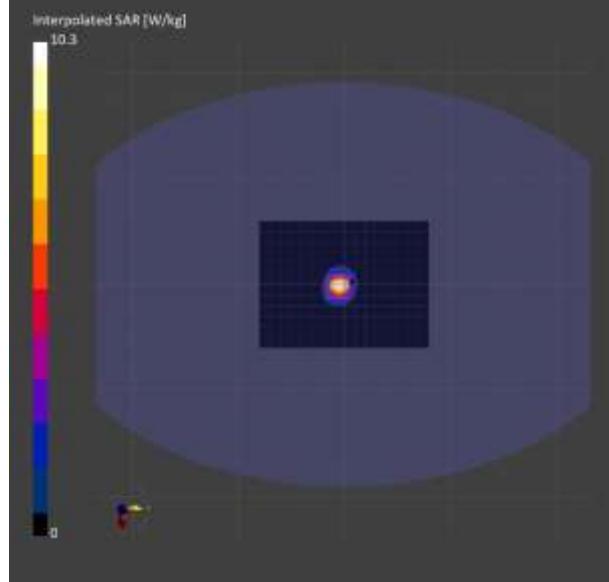
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	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	2024-11-25	2024-11-25
psSAR1g [W/kg]	7.34	8.09
psSAR8g [W/kg]	2.52	2.71
psSAR10g [W/kg]	2.29	2.25
Power Drift [dB]	-0.01	-0.04
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		6.8



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Report No. :TESA2411000729E5

**Measurement Report****Dipole\_D5750-SN:1023****Ambient temperature: 22.7°C; Liquid temperature: 21.5°C****Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.20	5.328	34.907

**Hardware Setup**

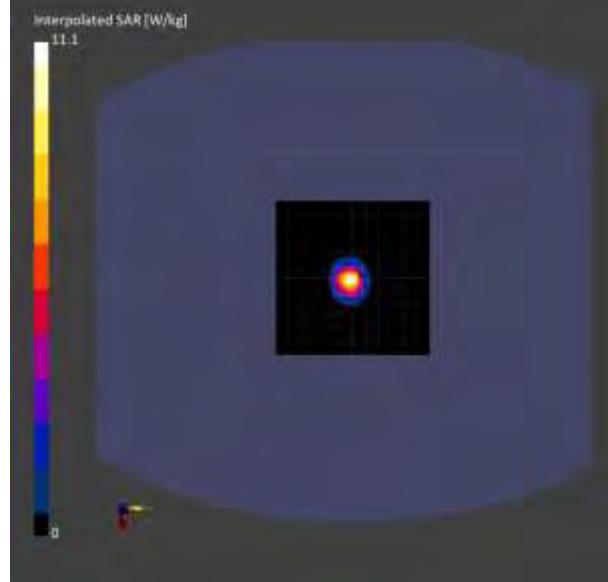
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2024-11-26	2024-11-26
psSAR1g [W/kg]	7.34	7.95
psSAR8g [W/kg]	2.55	2.67
psSAR10g [W/kg]	2.21	2.25
Power Drift [dB]	-0.04	-0.02
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		6.8



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Report No. : TESA2411000729E5

**Measurement Report****Dipole\_D5850-SN:1023****Ambient temperature: 22.7°C; Liquid temperature: 21.5°C****Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.20	5.432	35.793

**Hardware Setup**

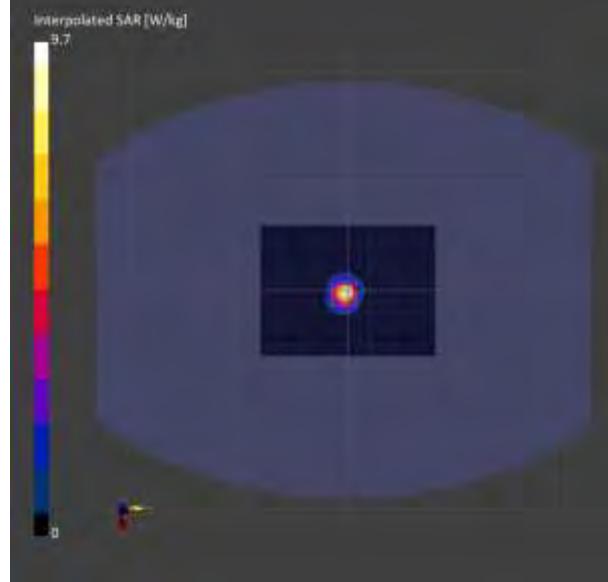
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	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	2024-11-26	2024-11-26
psSAR1g [W/kg]	6.62	7.98
psSAR8g [W/kg]	2.37	2.73
psSAR10g [W/kg]	2.05	2.31
Power Drift [dB]	0.02	0.04
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		6.5



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Report No. :TESA2411000729E5

**Measurement Report****Dipole\_D6500-SN:1006****Ambient temperature: 22.3°C; Liquid temperature: 21.6°C****Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.38	6.122	35.021

**Hardware Setup**

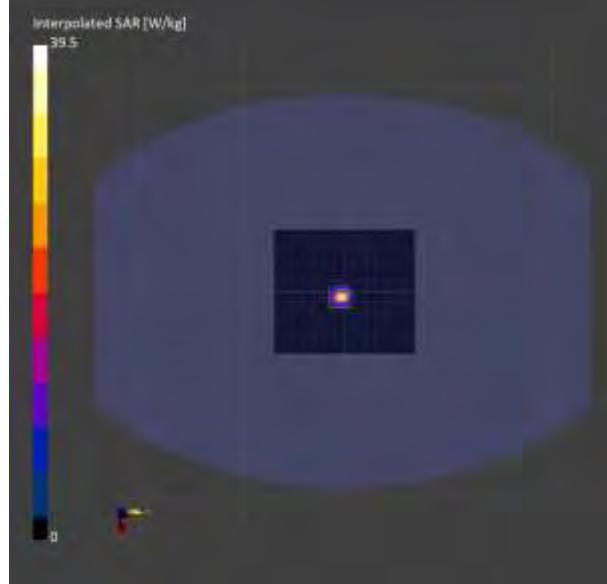
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	119.0 x 136.0	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	2024-11-27	2024-11-27
psSAR1g [W/kg]	23.8	29.3
psSAR8g [W/kg]	6.19	6.70
psSAR10g [W/kg]	5.14	5.55
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		131
Power Drift [dB]	0.01	-0.04
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		4.3



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Report No. :TESA2411000729E5

**Measurement Report****Dipole\_D7000-SN:1007****Ambient temperature: 22.3°C; Liquid temperature: 21.6°C****Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	FRONT, 5.00	5.66	6.665	34.421

**Hardware Setup**

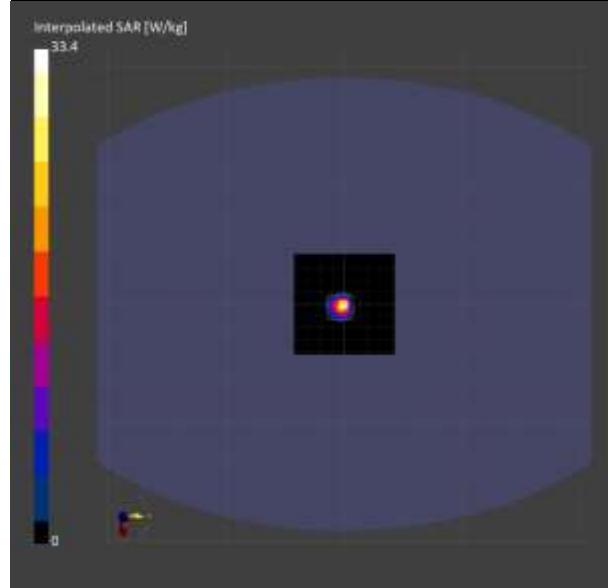
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

**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	2024-11-27	2024-11-27
psSAR1g [W/kg]	21.5	27.9
psSAR8g [W/kg]	5.65	6.26
psSAR10g [W/kg]	4.77	5.17
psPDab (4.0cm <sup>2</sup> , sq) [W/m <sup>2</sup> ]		124
Power Drift [dB]	0.03	-0.03
M2/M1 [%]		60.6
Dist 3dB Peak [mm]		4.8



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## 15 PD SYSTEM CHECK RESULTS

Report No. :TESA2411000729E5

**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**

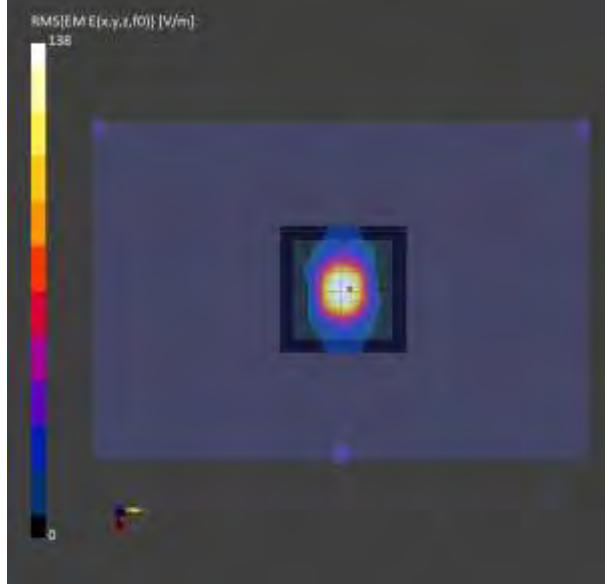
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn1260, 2024-09-19

**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	2024-11-28
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	49.2
psPDtot+ [W/m <sup>2</sup> ]	49.5
psPDmod+ [W/m <sup>2</sup> ]	49.7
E <sub>max</sub> [V/m]	138
Power Drift [dB]	0.01



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## 16 APPENDICES

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

**16.1 SAR\_Appendix A Photographs**

**16.2 SAR\_Appendix B DAE & Probe Cal. Certificate**

**16.3 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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