

RF Exposure report



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

EUT Description Wireless module installed in Notebook Computer
Brand Name HP
Model No. MT7922A22M
Host Model Number: TPN-W167
Applicant HP Inc.
3390 East Harmony Road, Fort Collins, United States,
80528
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID B94-MT7922A22MB
Date of EUT Receipt Nov. 15, 2024
Date of Test(s) Nov. 20, 2024 ~ Dec. 19, 2024
Date of Issue Jan. 09, 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 / Kiki Lin	Approved By / John Yeh

Date: Jan. 09, 2025

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2411000781ES	00	Initial creation of document	Jan. 03, 2025	Cindy Chou	
TESA2411000781ES	01	Add NB power	Jan. 09, 2025	Cindy Chou	*

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	HP	
Model No.	MT7922A22M	
FCC ID	B94-MT7922A22MB	
Host Model Number:	TPN-W167	
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/ac/ax	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5350.0 MHz)
		5.6GHz (5470.0 – 5725.0 MHz)
		5.8GHz (5725.0 – 5850.0 MHz)
		5.9GHz (5850.0 – 5895.0 MHz)
	802.11ax	6.2GHz (5925.0 – 6425.0 MHz)
		6.5GHz (6425.0 – 6525.0 MHz)
		6.7GHz (6525.0 – 6875.0 MHz)
		7.0GHz (6875.0 – 7125.0 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

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1.3 Maximum value

Vendor 2

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)	0.3	N/A	N/A
2.4G WLAN	0.43	N/A	N/A
5G WLAN	0.3	N/A	N/A
6G WLAN	0.13	0.75	3.37

Vendor 1

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)	0.29	N/A	N/A
2.4G WLAN	0.55	N/A	N/A
5G WLAN	0.43	N/A	N/A
6G WLAN	0.43	2.99	2.94

1.4 Antenna Information

Vendor	Vendor1									
Antenna	Tx1									
Part Number	025.902IE.0001 81EAB615.G54									
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	1.81	1.03	0.98	0.98	1.01	1.47	1.05	0.36	0.58
Antenna	Tx2									
Part Number	025.902ID.0001 81EAB615.G55									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.87	1.80	1.20	0.92	1.76	1.92	1.70	1.46	0.75	0.97

Note: Antenna information is provided by the applicant.

Vendor	Vendor2									
Antenna	Tx1									
Part Number	025.902IC.0001 (00-2602919400)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.86	0.56	1.79	1.14	1.12	0.36	1.26	0.10	-0.62	-1.09
Antenna	Tx2									
Part Number	025.902IB.0001 (00-2602919300)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.69	2.19	2.48	1.21	0.24	-1.23	-0.24	-1.08	-1.52	-1.80

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 a bolded mark as an indication where measurements occurred in specific test site and address.

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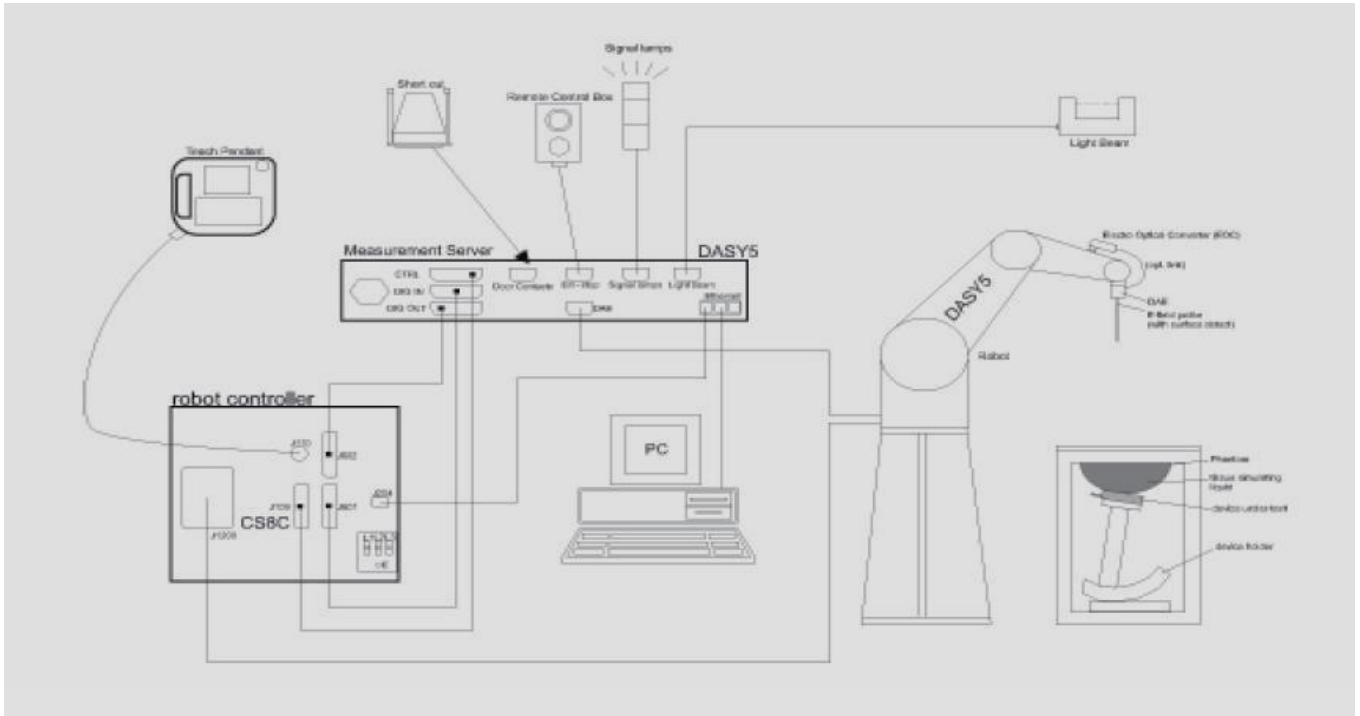
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2.2 SAR System

Block Diagram (DASY5)

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



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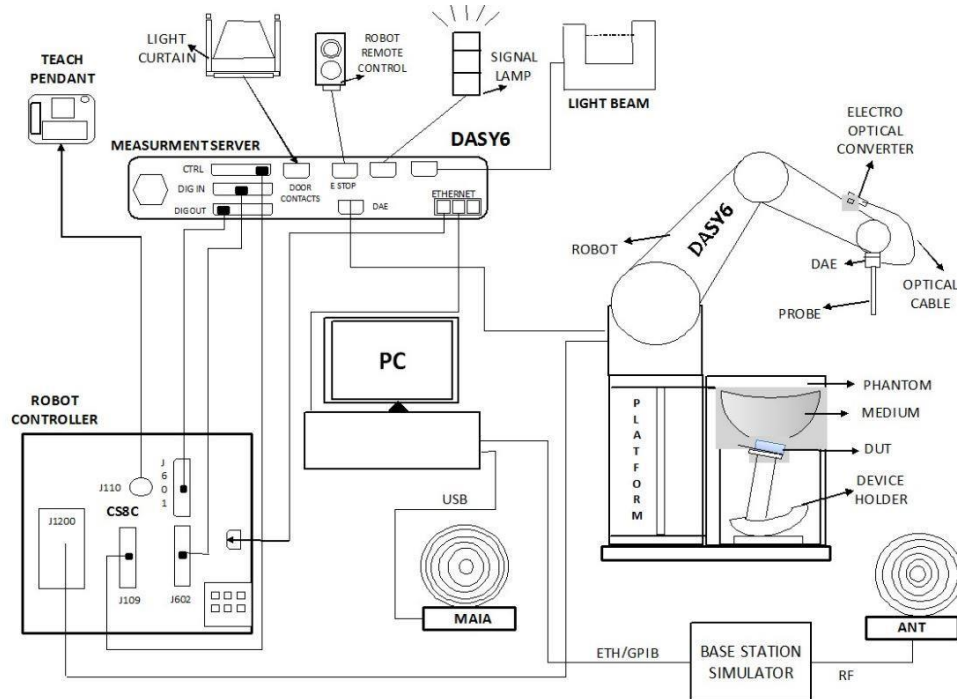
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Block Diagram (DASY6)

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



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

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EX3DV4 E-Field Probe

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

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PHANTOM (ELI)

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

DEVICE HOLDER

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

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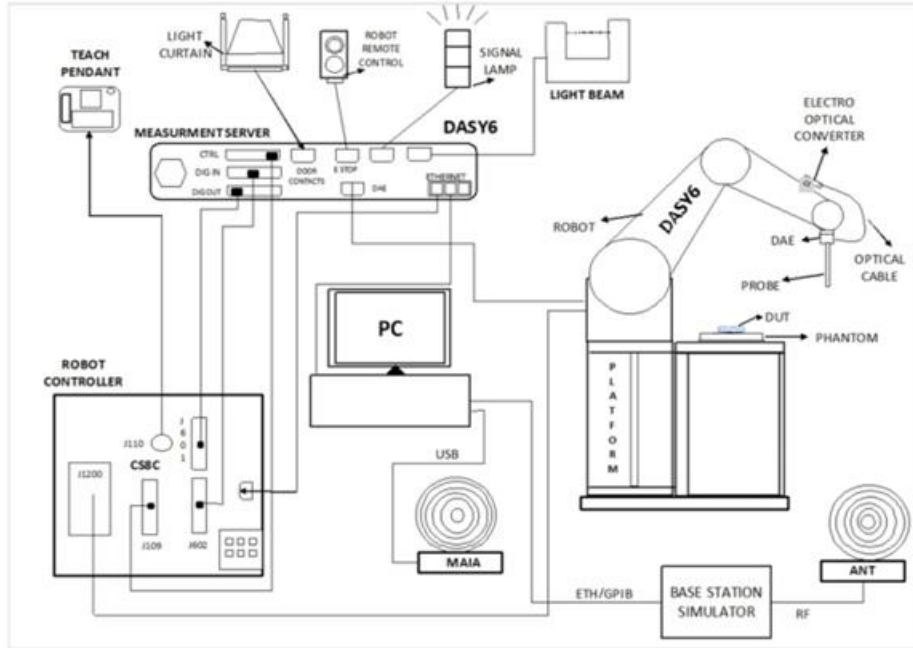
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2.3 PD system

Block Diagram (DASY6)

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



EUmmWVx probe

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

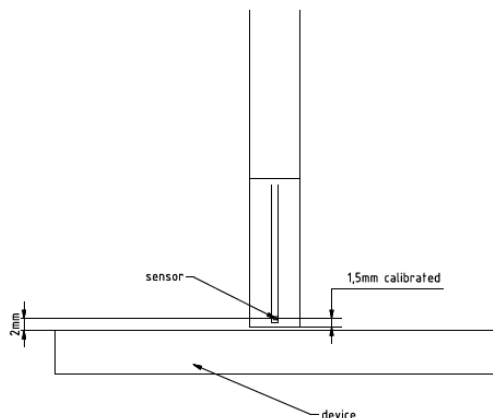
	Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/ point, 120° rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.
Frequency Range	750 MHz – 110 GHz

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



mmWave Phantom

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

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3 SAR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

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

3.2 Tissue Simulant Liquid measurement

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

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

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3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
2402	39.296	1.758	39.248	1.736	-0.12%	-1.27%	± 5%	Dec. 15, 2024
2412	39.276	1.767	39.181	1.740	-0.24%	-1.53%	± 5%	
2437	39.226	1.789	39.172	1.762	-0.14%	-1.49%	± 5%	
2441	39.218	1.792	39.147	1.770	-0.18%	-1.24%	± 5%	
2450	39.200	1.800	39.117	1.775	-0.21%	-1.39%	± 5%	
2462	39.184	1.813	39.016	1.794	-0.43%	-1.04%	± 5%	
2480	39.160	1.832	38.966	1.800	-0.50%	-1.75%	± 5%	
5190	36.010	4.650	35.890	4.688	-0.33%	0.83%	± 5%	Dec. 16, 2024
5210	35.990	4.670	35.880	4.714	-0.31%	0.94%	± 5%	
5230	35.970	4.690	35.823	4.732	-0.41%	0.90%	± 5%	
5250	35.950	4.710	35.787	4.761	-0.45%	1.08%	± 5%	
5270	35.930	4.730	35.766	4.778	-0.46%	1.01%	± 5%	
5290	35.910	4.750	35.712	4.791	-0.55%	0.86%	± 5%	
5310	35.890	4.770	35.684	4.808	-0.57%	0.80%	± 5%	
5530	35.605	4.997	35.470	5.050	-0.38%	1.07%	± 5%	Dec. 17, 2024
5600	35.500	5.070	35.424	5.125	-0.21%	1.08%	± 5%	
5610	35.490	5.080	35.360	5.137	-0.37%	1.12%	± 5%	
5670	35.430	5.140	35.332	5.192	-0.28%	1.01%	± 5%	
5690	35.410	5.160	35.322	5.218	-0.25%	1.12%	± 5%	
5710	35.390	5.180	35.265	5.231	-0.35%	0.98%	± 5%	
5745	35.355	5.215	35.264	5.272	-0.26%	1.09%	± 5%	
5750	35.350	5.220	35.244	5.280	-0.30%	1.15%	± 5%	Dec. 18, 2024
5775	35.325	5.245	35.204	5.301	-0.34%	1.07%	± 5%	
5785	35.315	5.255	35.176	5.311	-0.39%	1.07%	± 5%	
5825	35.275	5.296	35.174	5.354	-0.29%	1.09%	± 5%	
5835	35.265	5.307	35.164	5.378	-0.29%	1.34%	± 5%	
5850	35.250	5.323	35.150	5.385	-0.28%	1.17%	± 5%	
5855	35.245	5.328	35.142	5.402	-0.29%	1.39%	± 5%	
5875	35.225	5.349	35.015	5.410	-0.60%	1.15%	± 5%	
6025	35.070	5.510	34.986	5.571	-0.24%	1.12%	± 5%	
6185	34.878	5.698	34.808	5.735	-0.20%	0.64%	± 5%	
6345	34.686	5.887	34.608	5.915	-0.22%	0.47%	± 5%	
6500	34.500	6.070	34.413	6.080	-0.25%	0.16%	± 5%	
6505	34.494	6.076	34.316	6.086	-0.52%	0.17%	± 5%	
6665	34.302	6.261	34.149	6.262	-0.45%	0.01%	± 5%	
6825	34.110	6.447	33.884	6.435	-0.66%	-0.19%	± 5%	
6985	33.918	6.633	33.823	6.617	-0.28%	-0.24%	± 5%	
7000	33.900	6.650	33.721	6.625	-0.53%	-0.38%	± 5%	

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3.4 The composition of the tissue simulating liquid:

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

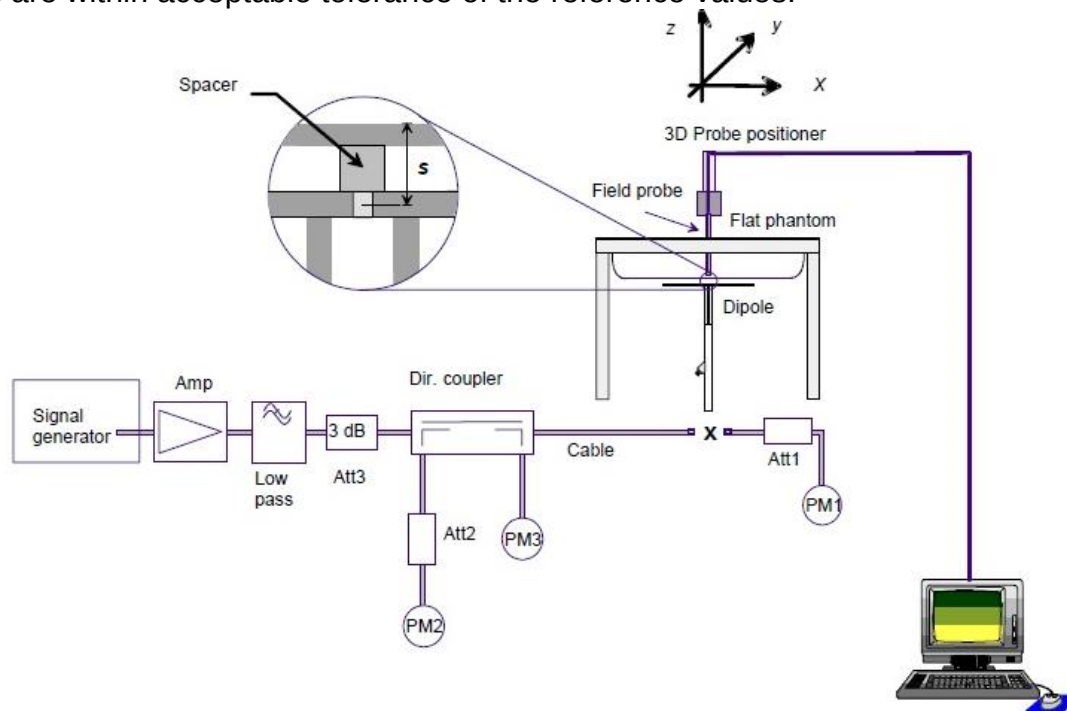
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

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	727	2450	52.7	13.4	53.6	1.71	± 10%	Dec.15,2024
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	8.02	80.2	1.78	± 10%	Dec.16,2024
D5GHzV2	1023	5600	81.3	8.16	81.6	0.37	± 10%	Dec.17,2024
D5GHzV2	1023	5750	78	7.82	78.2	0.26	± 10%	Dec.17,2024
D5GHzV2	1023	5850	78.6	8.36	83.6	6.36	± 10%	Dec.18,2024
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	29.8	298	0.34	± 10%	Dec.18,2024
D7GHzV2	1007	7000	286	26.4	264	-7.69	± 10%	Dec.18,2024

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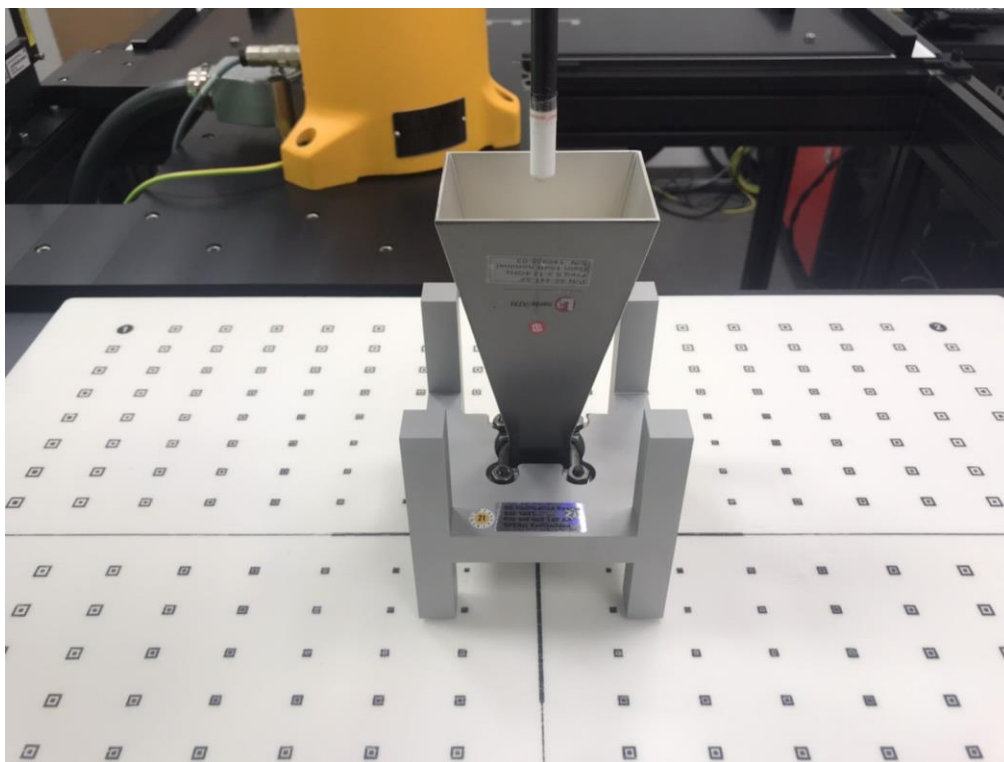
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4 PD SYSTEM VERIFICATION

4.1 System check

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

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



System Verification Setup Photo

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4.2 System check result

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

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm ² (W/m ²)	Target 4cm ² (W/m ²)	Deviation (dB)	Date
10000	10000	9399	1751	10	93.3	55.4	56.2	-0.06	Dec.19,2024

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5 TEST CONFIGURATIONS

5.1 Test Environment

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

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

5.2 Test Note

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

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

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

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

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

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

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

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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.

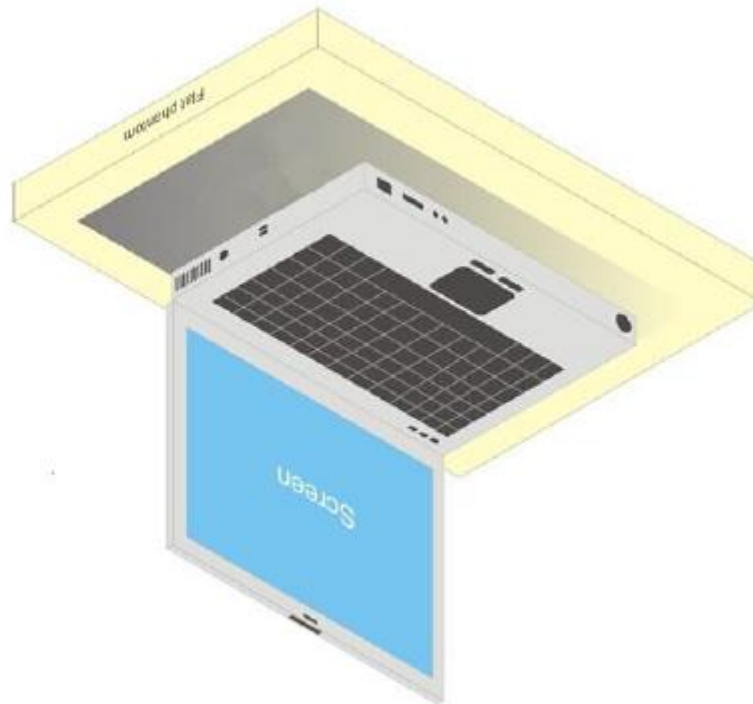


Illustration for Laptop Setup

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Tablet mode SAR test position (0mm)

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

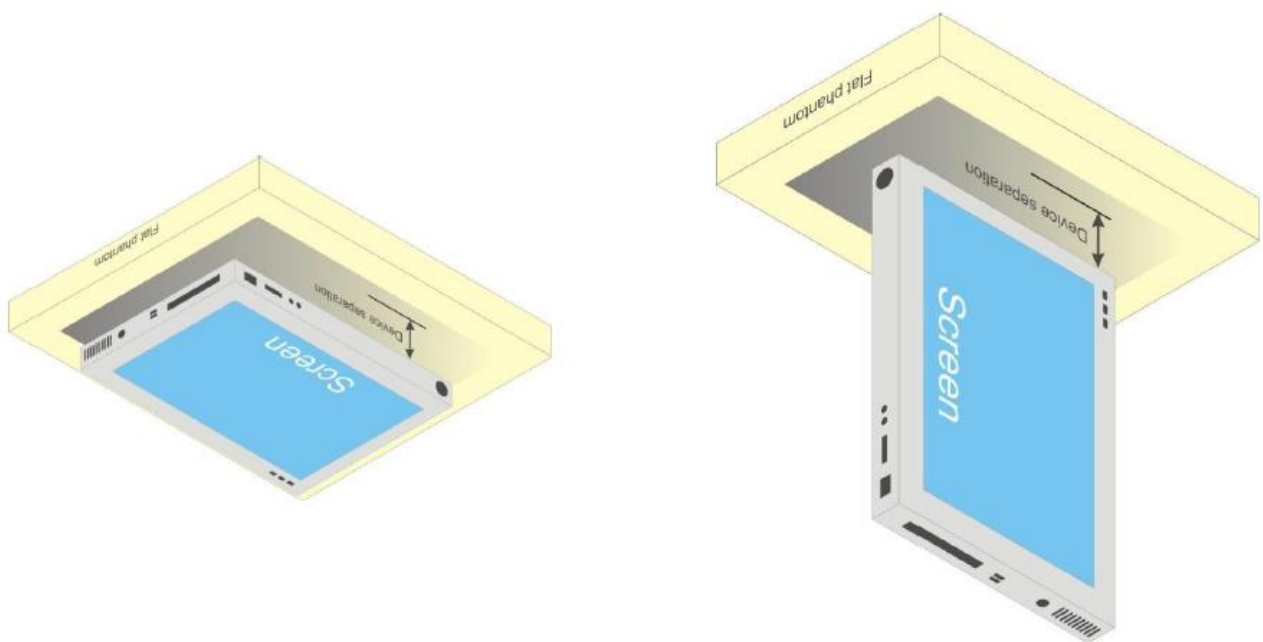


Illustration for Tablet Setup

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5.4 Power verification of device mode

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

Results and conclusion

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

Device mode verification by power measurement

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Antenna	Operation mode	Lid angle	802.11b	802.11g	802.11n(40M) 5.2G	802.11ac(RM) 5.2G	802.11n(40M) 5.3G	802.11ac(RM) 5.3G	802.11ac(RM) 5.6G	802.11ac(RM) 5.6G	802.11a 5.0G	802.11ac(RM) 5.8G	802.11n(40M) 5.9G	802.11ac(RM) 5.9G
Lid close	Laptop	0°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		10°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		20°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		25°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		28°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lid close	27°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		28°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		28°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		28°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		28°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Laptop	Laptop	30°	17.73	18.23	18.73	19.23	19.73	19.73	19.73	19.73	19.73	19.73	19.73	19.73
		31°	17.90	18.42	18.92	19.42	19.92	19.92	19.92	19.92	19.92	19.92	19.92	19.92
		32°	17.86	18.15	18.62	19.02	19.11	19.11	19.11	19.11	19.11	19.11	19.11	19.11
		33°	17.91	18.08	18.90	19.08	19.11	19.11	19.11	19.11	19.11	19.11	19.11	19.11
		34°	17.72	18.41	18.76	19.09	19.22	19.22	19.22	19.22	19.22	19.22	19.22	19.22
		35°	17.56	19.40	18.88	19.62	19.11	19.11	19.11	19.11	19.11	19.11	19.11	19.11
		40°	17.68	19.12	19.87	19.77	19.24	19.24	19.24	19.24	19.24	19.24	19.24	19.24
		55°	17.56	19.14	19.84	19.66	19.40	19.22	19.22	19.22	19.22	19.22	19.22	19.22
		65°	17.70	19.13	19.77	19.84	19.06	19.18	19.41	19.82	19.21	19.37	19.88	19.88
		75°	17.73	19.41	19.91	19.67	19.30	19.27	19.05	19.05	19.05	19.05	19.05	19.05
Tablet	Tablet	85°	17.77	19.26	19.90	19.94	19.16	19.06	19.10	19.83	19.25	19.20	19.34	19.78
		95°	17.56	19.31	19.80	19.91	19.11	19.29	19.18	19.84	19.13	19.37	19.32	19.76
		105°	17.61	19.10	19.70	19.76	19.20	19.43	19.05	19.81	19.42	19.24	19.06	19.81
		115°	17.86	19.35	19.82	19.71	19.08	19.41	19.06	19.67	19.30	19.43	19.40	19.82
		125°	17.69	19.44	19.88	19.84	19.35	19.37	19.28	19.64	19.33	19.17	19.29	19.80
		135°	18.06	19.36	19.17	19.12	19.14	19.25	19.42	19.41	19.14	19.38	19.10	19.27
		150°	18.24	19.31	19.13	19.15	19.25	19.12	19.15	19.60	19.26	19.38	19.25	19.32
		165°	17.60	19.06	19.70	19.44	19.41	19.28	19.80	19.12	19.32	19.34	19.74	19.74
		175°	17.57	19.31	19.69	19.65	19.38	19.31	19.16	19.79	19.10	19.37	19.14	19.68
		180°	17.60	19.23	19.60	19.20	19.40	19.20	19.40	19.20	19.40	19.20	19.40	19.20
Laptop	Laptop	120°	17.56	19.15	19.88	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
		125°	17.74	19.23	19.63	19.65	19.44	19.23	19.32	19.83	19.06	19.13	19.06	19.71
		130°	18.10	19.13	19.28	19.23	19.23	19.23	19.23	19.23	19.23	19.23	19.23	19.23
		131°	18.27	19.13	19.13	19.19	19.37	19.13	19.13	19.13	19.13	19.13	19.13	19.13
		132°	18.33	19.35	19.41	19.18	19.24	19.37	19.15	19.29	19.43	19.13	19.27	19.17
		133°	18.36	19.07	19.11	19.17	19.18	19.28	19.43	19.23	19.17	19.37	19.37	19.38
		134°	18.34	19.20	19.31	19.27	19.13	19.27	19.13	19.17	19.17	19.17	19.17	19.17
		135°	18.23	19.28	19.20	19.08	19.12	19.41	19.17	19.21	19.21	19.21	19.09	19.13
		145°	18.23	19.07	19.28	19.24	19.16	19.20	19.29	19.23	19.23	19.23	19.32	19.32
		155°	18.27	19.24	19.29	19.08	19.14	19.08	19.14	19.14	19.14	19.14	19.09	19.14
Tablet	Tablet	165°	18.16	19.22	19.24	19.06	19.16	19.07	19.29	19.37	19.13	19.13	19.14	19.34
		175°	18.09	19.15	19.39	19.13	19.43	19.43	19.35	19.31	19.38	19.06	19.16	19.32
		185°	18.26	19.20	19.24	19.08	19.07	19.24	19.24	19.24	19.24	19.24	19.24	19.24
		195°	18.42	19.31	19.24	19.07	19.29	19.32	19.41	19.41	19.41	19.41	19.41	19.41
		205°	18.31	19.40	19.30	19.28	19.23	19.42	19.20	19.40	19.22	19.27	19.27	19.42
		215°	18.10	19.26	19.28	19.23	19.28	19.40	19.26	19.40	19.26	19.40	19.26	19.40
		225°	18.24	19.41	19.44	19.30	19.23	19.12	19.25	19.31	19.10	19.21	19.29	19.43
		235°	18.19	19.15	19.15	19.13	19.37	19.06	19.18	19.12	19.38	19.16	19.45	19.39
		245°	18.22	19.34	19.28	19.25	19.12	19.09	19.28	19.34	19.33	19.09	19.39	19.39
		255°	18.13	19.21	19.13	19.16	19.12	19.18	19.16	19.18	19.16	19.18	19.16	19.18
Laptop	Laptop	265°	18.23	19.38	19.44	19.22	19.10	19.22	19.37	19.10	19.27	19.17	19.32	19.32
		275°	18.37	19.25	19.29	19.30	19.30	19.25	19.05	19.15	19.09	19.17	19.22	19.36
		285°	18.39	19.15	19.10	19.40	19.27	19.16	19.06	19.12	19.14	19.14	19.14	19.14
		295°	18.38	19.20	19.39	19.20	19.20	19.20	19.12	19.36	19.12	19.36	19.12	19.36
		305°	18.43	19.17	19.16	19.13	19.22	19.13	19.38	19.43	19.30	19.12	19.16	19.42
		315°	18.38	19.08	19.23	19.28	19.17	19.10	19.16	19.10	19.16	19.10	19.16	19.10
		325°	18.36	19.08	19.14	19.14	19.14	19.14	19.14	19.14	19.14	19.14	19.14	19.14
		335°	18.12	19.43	19.23	19.05	19.10	19.16	19.16	19.16	19.16	19.16	19.16	19.16
		345°	18.38	19.20	19.13	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12
		355°	18.21	19.11	19.30	19.35	19.36	19.35	19.20	19.43	19.43	19.31	19.39	19.45
Tablet	Tablet	360°	18.18	19.22	19.39	19.26	19.15	19.25	19.14	19.35	19.23	19.18	19.13	19.29
		350°	18.06	19.15	19.43	19.25	19.07	19.39	19.38	19.06	19.38	19.15	19.32	19.18
		340°	18.18	19.33	19.40	19.42	19.10	19.09	19.12	19.10	19.09	19.10	19.09	19.10
		330°	18.10	19.06	19.08	19.23	19.14	19.31	19.42	19.42	19.42	19.17	19.26	19.03
		320°	18.24	19.16	19.12	19.10	19.14	19.28	19.43	19.21	19.20	19.10	19.41	19.08
		310°	18.28	19.40	19.40	19.44	19.14	19.44	19.14	19.17	19.17	19.17	19.17	19.17
		300°	18.44	19.26	19.06	19.31	19.22	19.16	19.33	19.43	19.29	19.42	19.38	19.27
		290°	18.10	19.28	19.17	19.13	19.13	19.36	19.23	19.29	19.32	19.11	19.44	19.09
		280°	18.57	19.34	19.34	19.38	19.43	19.38	19.43	19.38	19.43	19.38	19.43	19.38
		270°	18.34	19.29	19.07	19.41	19.26	19.31	19.41	19.25	19.08	19.16	19.26	19.25
Laptop	Tablet	260°	18.07	19.40	19.35	19.41	19.16	19.40	19.11	19.24	19.43	19.43	19.23	19.17
		250°	18.12	19.42	19.36	19.36	19.36	19.36	19.36	19.36	19.36	19.36	19.36	19.36
		240°	18.32	19.44	19.19	19.43	19.41	19.39	19.07	19.07	19.07	19.25	19.27	19.19
		230°	18.28	19.24	19.18	19.16	19.41	19.21	19.06	19.43	19.07	19.13	19.28	19.14
		220°	18.09	19.29	19.20	19.24	19.18	19.07	19.39	19.07	19.40	19.33	19.06	19.21
		210°	18.23	19.45	19.28	19.28	19.42	19.41	19.38	19.38	19.38	19.38	19.38	19.38
		200°	18.13	19.36	19.29	19.20	19.16	19.16	19.44	19.06	19.25	19.21	19.13	19.39
		190°	18.09	19.22	19.31	19.13	19.29	19.20	19.10	19.26	19.20	19.21	19.14	19.24
		180°	18.21	19.41	19.31	19.45	19.27	19.45	19.16	19.45	19.16	19.45	19.16	19.45
		170°	18.12	19.19	19.26	19.34	19.12	19.34	19.12	19.32	19.11	19.12	19.12	19.34
Laptop	Laptop	160°	18.45	19.06	19.40	19.20	19.19	19.19	19.35	19.19	19.27	19.09	19.17	19.13
		150°	18.27	19.13	19.20	19.05	19.26	19.16	19.16	19.16	19.16	19.16	19.16	19.16
		140°	18.29	19.27	19.38	19.14	19.32	19.37	19.35	19.35	19.35	19.35	19.35	19.35
Laptop	Laptop	130°	18.15	19.08	19.37	19.21	19.45	19.32	19.23	19.29	19.14	19.34	19.34	19.08
		120°	17.84	19.24	19.68	19.75	19.37	19.44	19.21	19.80	19.22	19.31	19.20	19.63
		125°	17.83	19.28	19.84	19.78	19.30	19.41	19.44	19.59	19.40	19.2		

Tablet	345°	15.26	15.12	13.32	13.38	13.36	13.44	13.17	13.36	13.06	13.14	13.19	13.21
	344°	15.36	15.35	13.15	13.20	13.13	13.28	13.05	13.15	13.26	13.20	13.41	13.24
	343°	15.11	15.28	13.44	13.18	13.20	13.32	13.30	13.36	13.11	13.19	13.39	13.37
	342°	15.33	15.09	13.33	13.43	13.14	13.33	13.14	13.37	13.10	13.37	13.10	13.25
	341°	15.06	15.17	13.34	13.30	13.06	13.22	13.17	13.19	13.24	13.26	13.40	13.08
	340°	17.69	19.30	19.90	13.61	19.08	14.42	19.31	18.61	19.08	17.22	19.33	18.79
	339°	17.58	19.25	19.70	13.78	19.26	14.14	19.40	18.72	19.25	17.48	19.40	18.74
	338°	17.58	19.34	19.70	13.78	19.26	14.29	19.26	18.63	19.05	17.12	19.12	18.79
	337°	17.80	19.28	19.60	13.62	19.12	14.14	19.12	18.87	19.25	17.28	19.32	18.91
	336°	17.63	19.25	19.59	13.71	19.19	14.34	19.21	18.75	19.20	17.07	19.28	18.74
Stand mode (screen orientation is 0°)	335°	17.68	19.32	19.67	13.75	19.36	14.07	19.23	18.64	19.14	17.15	19.35	18.72
	335°	17.61	19.05	19.74	13.79	19.21	14.23	19.10	18.84	19.20	17.39	19.30	18.89
	315°	17.60	19.42	19.58	13.63	19.42	14.22	19.08	18.92	19.38	17.33	19.36	18.65
	295°	17.80	19.10	19.72	13.69	19.08	14.41	19.25	18.68	19.41	17.41	19.40	18.65
	290°	17.64	19.27	19.61	13.69	19.08	14.11	19.07	18.83	19.34	17.38	19.25	18.62
	285°	17.82	19.16	19.57	13.81	19.29	14.30	19.37	18.83	19.27	17.36	19.23	18.72
	275°	17.75	19.23	19.57	13.87	19.27	14.22	19.11	18.71	19.08	17.08	19.07	18.75
	265°	17.77	19.21	19.75	13.70	19.15	14.41	19.31	18.61	19.35	17.19	19.34	18.85
	255°	17.76	19.19	19.78	13.60	19.13	14.09	19.13	18.90	19.09	17.06	19.08	18.64
	245°	17.68	19.08	19.62	13.62	19.32	14.05	19.09	18.78	19.32	17.07	19.36	18.87
Tent mode (screen orientation is 180°)	225°	17.90	19.31	19.74	13.84	19.30	14.33	19.30	18.66	19.37	17.38	19.19	18.71
	225°	17.87	19.28	19.76	13.83	19.12	14.09	19.12	18.58	19.12	17.13	19.44	18.79
	215°	17.79	19.41	19.87	13.79	19.42	14.16	19.21	18.65	19.44	17.22	19.26	18.75
	205°	17.72	19.05	19.70	13.79	19.44	14.38	19.26	18.59	19.42	17.26	19.30	18.61
	200°	17.93	19.31	19.80	13.93	19.17	14.44	19.21	18.84	19.24	17.09	19.18	18.59
	200°	15.35	15.11	13.12	13.14	13.22	13.12	13.25	13.32	13.06	13.38	13.37	13.13
	210°	15.16	15.28	13.46	13.08	13.22	13.35	13.20	13.12	13.39	13.06	13.37	13.20
	220°	15.30	15.33	13.16	13.44	13.21	13.19	13.32	13.45	13.31	13.45	13.22	13.14
	230°	15.37	15.33	13.12	13.44	13.17	13.17	13.31	13.24	13.25	13.20	13.40	13.18
	240°	15.30	15.30	13.23	13.36	13.28	13.40	13.38	13.37	13.16	13.11	13.19	13.18
Tablet	345°	15.31	15.32	13.19	13.37	13.06	13.45	13.34	13.46	13.10	13.37	13.10	13.23
	340°	15.16	15.27	13.42	13.24	13.37	13.25	13.37	13.31	13.29	13.15	13.09	13.09
	270°	15.13	15.33	13.10	13.19	13.35	13.14	13.20	13.41	13.37	13.10	13.15	13.21
	280°	15.26	15.28	13.38	13.10	13.32	13.16	13.18	13.14	13.15	13.24	13.14	13.24
	300°	15.43	15.43	13.15	13.45	13.43	13.27	13.38	13.26	13.10	13.28	13.22	13.29
	300°	15.44	15.39	13.44	13.13	13.33	13.41	13.11	13.33	13.20	13.30	13.39	13.39
	310°	15.13	15.11	13.07	13.25	13.41	13.35	13.26	13.45	13.15	13.44	13.15	13.15
	320°	15.40	15.10	13.15	13.45	13.10	13.37	13.32	13.23	13.12	13.08	13.21	13.14
	340°	15.38	15.37	13.29	13.31	13.39	13.37	13.32	13.23	13.12	13.08	13.21	13.14
	350°	15.38	15.40	13.44	13.15	13.44	13.15	13.44	13.15	13.45	13.15	13.45	13.22
Tablet	345°	15.33	15.36	13.38	13.26	13.10	13.07	13.36	13.14	13.16	13.06	13.37	13.18
	340°	15.28	15.12	13.21	13.37	13.07	13.14	13.39	13.13	13.29	13.42	13.12	13.20
	341°	15.45	15.09	13.19	13.18	13.17	13.11	13.17	13.45	13.36	13.19	13.12	13.36
	342°	15.43	15.38	13.20	13.20	13.10	13.34	13.08	13.37	13.10	13.29	13.18	13.38
	343°	15.14	15.29	13.16	13.32	13.07	13.19	13.05	13.08	13.38	13.38	13.06	13.27
	344°	15.31	15.45	13.25	13.29	13.34	13.42	13.43	13.24	13.40	13.15	13.34	13.16
	345°	15.26	15.10	13.28	13.25	13.17	13.25	13.18	13.25	13.08	13.14	13.18	13.14
	355°	15.06	15.14	13.23	13.35	13.20	13.10	13.19	13.22	13.33	13.19	13.12	13.44
	360°	15.37	15.17	13.17	13.07	13.26	13.24	13.41	13.05	13.16	13.27	13.41	13.22
	360°	15.44	15.16	13.34	13.27	13.07	13.25	13.30	13.16	13.22	13.10	13.10	13.13
Tent mode (screen orientation is 180°)	340°	15.44	15.24	13.13	13.24	13.42	13.19	13.18	13.10	13.41	13.38	13.34	13.18
	345°	15.41	15.29	13.06	13.20	13.40	13.16	13.05	13.35	13.30	13.38	13.36	13.14
	344°	15.29	15.25	13.38	13.41	13.07	13.26	13.29	13.15	13.23	13.44	13.10	13.12
	343°	15.27	15.17	13.27	13.22	13.07	13.22	13.45	13.27	13.42	13.45	13.10	13.42
	342°	15.06	15.30	13.21	13.39	13.35	13.12	13.36	13.40	13.39	13.39	13.28	13.38
	341°	15.18	15.15	13.29	13.28	13.32	13.40	13.31	13.14	13.19	13.27	13.39	13.10
	339°	15.19	15.11	13.31	13.38	13.28	13.35	13.36	13.37	13.38	13.37	13.27	13.37
	339°	15.32	15.09	13.28	13.24	13.26	13.33	13.36	13.43	13.13	13.44	13.13	13.13
	338°	15.43	15.14	13.19	13.11	13.15	13.21	13.20	13.38	13.37	13.15	13.39	13.10
	337°	15.07	15.38	13.38	13.16	13.30	13.16	13.27	13.36	13.22	13.11	13.31	13.25
Tablet	336°	15.17	15.19	13.23	13.23	13.21	13.23	13.41	13.17	13.24	13.17	13.29	13.26
	335°	15.33	15.12	13.10	13.24	13.15	13.36	13.38	13.10	13.07	13.41	13.08	13.39
	325°	15.13	15.22	13.27	13.24	13.17	13.41	13.40	13.21	13.24	13.13	13.31	13.28
	215°	15.28	15.20	13.42	13.26	13.27	13.08	13.10	13.44	13.09	13.10	13.07	13.33
	300°	15.07	15.28	13.08	13.41	13.33	13.20	13.17	13.13	13.07	13.18	13.12	13.16
	295°	15.43	15.37	13.07	13.31	13.32	13.26	13.11	13.25	13.37	13.29	13.28	13.25
	285°	15.44	15.20	13.07	13.24	13.25	13.24	13.45	13.15	13.44	13.15	13.24	13.24
	275°	15.24	15.07	13.26	13.41	13.08	13.32	13.13	13.24	13.25	13.12	13.38	13.25
	265°	15.42	15.40	13.41	13.17	13.10	13.44	13.41	13.09	13.26	13.17	13.37	13.34
	255°	15.27	15.30	13.28	13.31	13.29	13.13	13.17	13.15	13.40	13.17	13.15	13.39
Tablet	345°	15.15	15.09	13.33	13.43	13.29	13.43	13.40	13.35	13.40	13.15	13.29	13.21
	295°	15.10	15.07	13.29	13.37	13.11	13.35	13.25	13.19	13.38	13.12	13.34	13.39
	225°	15.44	15.37	13.10	13.40	13.37	13.27	13.14	13.11	13.11	13.34	13.12	13.39
	215°	15.07	15.11	13.15	13.25	13.36	13.11	13.36	13.14	13.25	13.22	13.14	13.14
	205°	15.25	15.18	13.32	13.22	13.14	13.07	13.24	13.07	13.29	13.17	13.31	13.31
	200°	15.30	15.21	13.33	13.36	13.42	13.10	13.06	13.20	13.05	13.08	13.17	13.11
	10°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	20°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	20°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Book mode (screen orientation is 90° or 270°)	30°	15.20	15.41	13.36	13.22	13.30	13.41	13.05	13.45	13.39	13.15	13.20	13.19
	25°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	26°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	27°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	28°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	29°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30°	15.18	15.45	13.31	13.17	13.18	13.33	13.20	13.37	13.11	13.27	13.11	13.41
	31°	15.44	15.27	13.36	13.27	13.36	13.29	13.42	13.19	13.43	13.17	13.43	13.16
	32°	15.29	15.30	13.45	13.11	13.40	13.22	13.17	13.29	13.21	13.27	13.41	1

[illegible]

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

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Tablet	345°	15.37	15.26	15.25	15.23	15.23	15.40	15.09	15.19	15.44	15.28	15.32	15.07	15.29
	344°	15.29	15.11	15.09	15.13	15.23	15.26	15.22	15.17	15.34	15.13	15.25	15.07	15.34
	343°	15.11	15.18	15.33	15.37	15.13	15.13	15.19	15.29	15.19	15.42	15.36	15.10	15.08
	342°	15.42	15.23	15.05	15.16	15.23	15.16	15.38	15.22	15.15	15.22	15.15	15.21	15.19
	341°	15.21	15.12	15.36	15.05	15.12	15.12	15.19	15.16	15.30	15.14	15.42	15.36	15.25
	340°	17.74	15.09	15.63	15.74	15.18	15.18	15.16	15.33	15.63	15.24	17.26	15.03	15.75
	339°	15.66	15.71	15.52	15.68	15.52	15.68	15.52	15.68	15.52	15.68	15.52	15.68	15.75
	338°	17.74	15.99	15.54	15.54	15.24	15.24	14.02	15.24	15.52	15.23	17.05	15.12	15.45
	337°	17.50	15.13	15.83	15.53	15.02	15.26	15.11	15.50	15.14	15.09	15.25	15.45	15.86
	336°	17.82	15.22	15.59	15.78	15.25	15.46	15.30	15.48	15.12	15.00	15.09	15.69	15.77
Stand mode (screen orientation is 0°)	335°	17.70	15.07	15.78	15.45	15.20	15.42	15.20	15.23	15.20	15.20	17.14	15.10	15.69
	335°	17.71	15.30	15.52	15.52	15.29	15.45	15.23	15.73	15.08	15.00	15.12	15.84	15.84
	335°	17.48	15.15	15.56	15.75	15.30	15.43	15.17	15.58	15.33	15.28	15.28	15.88	15.88
	335°	17.66	15.23	15.73	15.60	15.18	15.25	15.20	15.25	15.20	15.20	17.06	15.12	15.88
	295°	17.63	15.11	15.52	15.81	15.09	15.22	15.08	15.51	15.22	15.33	15.17	15.72	15.72
	285°	17.45	15.19	15.78	15.58	15.35	15.47	15.13	15.53	15.03	15.29	15.03	15.66	15.66
	275°	17.61	15.14	15.79	15.71	15.03	15.60	15.46	15.70	15.34	15.24	15.34	15.86	15.86
	265°	17.77	15.25	15.90	15.60	15.09	15.10	15.10	15.10	15.08	15.04	15.28	15.02	15.51
	255°	17.71	15.30	15.50	15.70	15.29	15.32	15.31	15.53	15.88	15.28	15.13	15.79	15.79
	245°	17.79	15.05	15.86	15.59	15.22	15.23	15.20	15.50	15.33	15.12	15.18	15.85	15.85
Tent mode (screen orientation is 180°)	235°	17.62	15.20	15.80	15.57	15.12	15.15	15.20	15.66	15.29	15.15	15.30	15.14	15.71
	225°	17.65	15.32	15.48	15.59	15.03	15.05	15.15	15.75	15.00	15.05	15.01	15.88	15.88
	215°	17.59	15.23	15.70	15.58	15.30	15.49	15.05	15.62	15.06	15.30	15.04	15.61	15.61
	205°	17.70	15.25	15.68	15.74	15.02	15.06	15.07	15.09	15.26	15.06	15.24	15.74	15.74
	200°	17.78	15.98	15.51	15.57	15.18	15.31	15.19	15.49	15.20	15.08	15.32	15.67	15.67
	200°	15.08	15.06	15.41	15.35	15.25	15.36	15.17	15.16	15.08	15.08	15.17	15.19	15.19
	210°	15.13	15.25	15.14	15.39	15.26	15.39	15.32	15.37	15.15	15.43	15.10	15.36	15.36
	220°	15.19	15.33	15.29	15.26	15.08	15.09	15.23	15.23	15.30	15.30	15.39	15.35	15.35
	230°	15.19	15.24	15.45	15.23	15.31	15.23	15.23	15.24	15.15	15.07	15.29	15.29	15.29
	240°	15.23	15.20	15.10	15.16	15.30	15.32	15.44	15.43	15.22	15.14	15.08	15.09	15.09
Tablet	345°	15.24	15.08	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
	340°	15.10	15.20	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
	335°	15.42	15.27	15.13	15.40	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
	330°	15.38	15.08	15.31	15.08	15.26	15.26	15.26	15.26	15.26	15.26	15.26	15.26	15.26
	325°	15.30	15.29	15.07	15.17	15.33	15.29	15.12	15.08	15.21	15.09	15.09	15.09	15.09
	320°	15.17	15.11	15.11	15.29	15.28	15.41	15.24	15.16	15.16	15.15	15.15	15.15	15.15
	315°	15.27	15.28	15.31	15.31	15.40	15.34	15.24	15.16	15.16	15.15	15.15	15.15	15.15
	310°	15.28	15.28	15.31	15.31	15.31	15.31	15.31	15.31	15.31	15.31	15.31	15.31	15.31
	305°	15.25	15.12	15.35	15.13	15.44	15.37	15.34	15.30	15.37	15.37	15.37	15.37	15.37
	300°	15.43	15.14	15.44	15.29	15.11	15.24	15.29	15.11	15.24	15.29	15.11	15.24	15.29
Tablet	345°	15.25	15.10	15.37	15.21	15.10	15.32	15.38	15.12	15.12	15.15	15.41	15.18	15.10
	340°	15.14	15.17	15.37	15.08	15.06	15.10	15.16	15.22	15.12	15.06	15.10	15.06	15.10
	341°	15.35	15.06	15.40	15.34	15.27	15.44	15.21	15.17	15.43	15.15	15.34	15.34	15.34
	342°	15.20	15.15	15.34	15.13	15.22	15.13	15.08	15.17	15.13	15.08	15.17	15.13	15.13
	343°	15.17	15.30	15.37	15.13	15.05	15.31	15.37	15.36	15.34	15.31	15.33	15.33	15.33
	344°	15.10	15.35	15.25	15.24	15.40	15.23	15.37	15.37	15.11	15.10	15.38	15.38	15.38
	345°	15.24	15.43	15.10	15.10	15.17	15.10	15.17	15.10	15.17	15.10	15.17	15.10	15.10
	355°	15.15	15.16	15.25	15.33	15.19	15.26	15.37	15.27	15.39	15.24	15.12	15.15	15.15
	360°	15.16	15.25	15.41	15.41	15.36	15.16	15.14	15.09	15.18	15.37	15.13	15.17	15.17
	360°	15.16	15.25	15.41	15.41	15.36	15.16	15.14	15.09	15.18	15.37	15.13	15.17	15.17
Tablet	345°	15.24	15.08	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
	340°	15.10	15.20	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
	335°	15.42	15.27	15.13	15.40	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
	330°	15.38	15.08	15.31	15.08	15.26	15.26	15.26	15.26	15.26	15.26	15.26	15.26	15.26
	325°	15.30	15.29	15.07	15.17	15.33	15.29	15.12	15.08	15.21	15.09	15.09	15.09	15.09
	320°	15.17	15.11	15.11	15.29	15.28	15.41	15.24	15.16	15.16	15.15	15.15	15.15	15.15
	315°	15.27	15.28	15.31	15.31	15.40	15.34	15.24	15.16	15.16	15.15	15.15	15.15	15.15
	310°	15.28	15.28	15.31	15.31	15.31	15.31	15.31	15.31	15.31	15.31	15.31	15.31	15.31
	305°	15.25	15.12	15.35	15.13	15.44	15.37	15.34	15.30	15.37	15.37	15.37	15.37	15.37
	300°	15.43	15.14	15.44	15.29	15.11	15.24	15.29	15.11	15.24	15.29	15.11	15.24	15.29
Tablet	345°	15.25	15.10	15.37	15.21	15.10	15.32	15.38	15.12	15.12	15.15	15.41	15.18	15.10
	340°	15.14	15.17	15.37	15.08	15.06	15.10	15.16	15.22	15.12	15.06	15.10	15.06	15.10
	341°	15.35	15.06	15.40	15.34	15.27	15.44	15.21	15.17	15.43	15.15	15.34	15.34	15.34
	342°	15.20	15.15	15.34	15.13	15.22	15.13	15.08	15.17	15.13	15.08	15.17	15.13	15.13
	343°	15.17	15.30	15.37	15.13	15.05	15.31	15.37	15.36	15.34	15.31	15.33	15.33	15.33
	344°	15.10	15.35	15.25	15.24	15.40	15.23	15.37	15.37	15.11	15.10	15.38	15.38	15.38
	345°	15.24	15.43	15.10	15.10	15.17	15.10	15.17	15.10	15.17	15.10	15.17	15.10	15.10
	355°	15.15	15.16	15.25	15.33	15.19	15.26	15.37	15.27	15.39	15.24	15.12	15.15	15.15
	360°	15.16	15.25	15.41	15.41	15.36	15.16	15.14	15.09	15.18	15.37	15.13	15.17	15.17
	360°	15.16	15.25	15.41	15.41	15.36	15.16	15.14	15.09	15.18	15.37	15.13	15.17	15.17
Tablet	345°	15.24	15.08	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
	340°	15.10	15.20	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
	335°	15.42	15.27	15.13	15.40	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
	330°	15.38	15.08	15.31	15.08	15.26	15.26	15.26	15.26					

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

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

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

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

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6 MAXIMUM OUTPUT POWER

6.1 WLAN

Tablet mode

Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	15.50	15.49
		6	2437		15.50	15.48
		11	2462		15.50	15.47
	802.11g	1	2412	6Mbps	15.50	15.24
		6	2437		15.50	15.28
		11	2462		15.50	15.21
	802.11n20-HT0	1	2412	MCS0	15.50	15.22
		6	2437		15.50	15.15
		11	2462		15.50	15.17
	802.11ac20-VHT0	1	2412	MCS0	15.50	15.27
		6	2437		15.50	15.12
		11	2462		15.50	15.28
	802.11ax20-HE0	1	2412	MCS0	15.50	15.27
		6	2437		15.50	15.26
		11	2462		15.50	15.30
	802.11n40-HT0	3	2422	MCS0	15.00	14.80
		6	2437		15.50	15.16
		9	2452		15.00	14.63
	802.11ac40-VHT0	3	2422	MCS0	15.00	14.79
		6	2437		15.50	15.18
		9	2452		15.00	14.60
	802.11ax40-HE0	3	2422	MCS0	15.00	14.61
		6	2437		15.50	15.21
		9	2452		15.00	14.72

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Tx1						
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	13.12
		40	5200		13.50	13.29
		44	5220		13.50	13.29
		48	5240		13.50	13.25
	802.11n20-HT0	36	5180	MCS0	13.50	13.23
		40	5200		13.50	13.12
		44	5220		13.50	13.23
		48	5240		13.50	13.28
	802.11ac20-VHT0	36	5180	MCS0	13.50	13.22
		40	5200		13.50	13.25
		44	5220		13.50	13.27
		48	5240		13.50	13.29
	802.11ax20-HE0	36	5180	MCS0	13.50	13.28
		40	5200		13.50	13.12
		44	5220		13.50	13.11
		48	5240		13.50	13.27
	802.11n40-HT0	38	5190	MCS0	13.50	13.23
		46	5230		13.50	13.20
	802.11ac40-VHT0	38	5190	MCS0	13.50	13.16
		46	5230		13.50	13.21
	802.11ax40-HE0	38	5190	MCS0	13.50	13.26
		46	5230		13.50	13.29
	802.11ac80-VHT0	42	5210	MCS0	13.50	13.49
	802.11ax80-HE0	42	5210	MCS0	13.50	13.21
	802.11ac160-VHT0	50	5250	MCS0	10.50	10.19
	802.11ax160-HE0	50	5250	MCS0	10.50	10.23

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Tx1						
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	13.50	13.20
		56	5280		13.50	13.24
		60	5300		13.50	13.21
		64	5320		13.50	13.13
	802.11n20-HT0	52	5260	MCS0	13.50	13.19
		56	5280		13.50	13.26
		60	5300		13.50	13.20
		64	5320		13.50	13.15
	802.11ac20-VHT0	52	5260	MCS0	13.50	13.14
		56	5280		13.50	13.13
		60	5300		13.50	13.14
		64	5320		13.50	13.17
	802.11ax20-HE0	52	5260	MCS0	13.50	13.26
		56	5280		13.50	13.20
		60	5300		13.50	13.18
		64	5320		13.50	13.27
	802.11n40-HT0	54	5270	MCS0	13.50	13.21
		62	5310		13.50	13.16
	802.11ac40-VHT0	54	5270	MCS0	13.50	13.28
		62	5310		13.50	13.12
	802.11ax40-HE0	54	5270	MCS0	13.50	13.22
		62	5310		13.50	13.17
	802.11ac80-VHT0	58	5290	MCS0	13.50	13.49
	802.11ax80-HE0	58	5290	MCS0	13.50	13.15

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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	13.50	13.28
		120	5600		13.50	13.14
		140	5700		13.50	13.26
		144	5720		13.50	13.16
	802.11n20-HT0	100	5500	MCS0	13.50	13.25
		120	5600		13.50	13.28
		140	5700		13.50	13.15
		144	5720		13.50	13.23
	802.11ac20-VHT0	100	5500	MCS0	13.50	13.17
		120	5600		13.50	13.21
		140	5700		13.50	13.18
		144	5720		13.50	13.15
	802.11ax20-HE0	100	5500	MCS0	13.50	13.17
		120	5600		13.50	13.13
		140	5700		13.50	13.21
		144	5720		13.50	13.30
	802.11n40-HT0	102	5510	MCS0	13.50	13.28
		118	5590		13.50	13.13
		134	5670		13.50	13.22
		142	5710		13.50	13.21
	802.11ac40-VHT0	102	5510	MCS0	13.50	13.27
		118	5590		13.50	13.25
		134	5670		13.50	13.23
		142	5710		13.50	13.27
	802.11ax40-HE0	102	5510	MCS0	13.50	13.11
		118	5590		13.50	13.20
		134	5670		13.50	13.24
		142	5710		13.50	13.15
	802.11ac80-VHT0	106	5530	MCS0	13.50	13.49
		122	5610		13.50	13.47
		138	5690		13.50	13.48
	802.11ax80-HE0	106	5530	MCS0	13.50	13.25
		122	5610		13.50	13.15
		138	5690		13.50	13.29
	802.11ac160-VHT0	114	5570	MCS0	9.50	9.12
	802.11ax160-HE0	114	5570	MCS0	9.50	9.19

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	13.50	13.15
		157	5785		13.50	13.29
		165	5825		13.50	13.20
	802.11n20-HT0	149	5745	MCS0	13.50	13.22
		157	5785		13.50	13.30
		165	5825		13.50	13.26
	802.11ac20-VHT0	149	5745	MCS0	13.50	13.22
		157	5785		13.50	13.23
		165	5825		13.50	13.24
	802.11ax20-HE0	149	5745	MCS0	13.50	13.20
		157	5785		13.50	13.19
		165	5825		13.50	13.15
	802.11n40-HT0	151	5755	MCS0	13.50	13.15
		159	5795		13.50	13.11
	802.11ac40-VHT0	151	5755	MCS0	13.50	13.27
		159	5795		13.50	13.11
	802.11ax40-HE0	151	5755	MCS0	13.50	13.18
		159	5795		13.50	13.15
	802.11ac80-VHT0	155	5775	MCS0	13.50	13.49
	802.11ax80-HE0	155	5775	MCS0	13.50	13.24

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Tx1						
Band	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	13.19
		173	5865		13.50	13.26
		177	5885		13.50	13.17
	802.11n20-HT0	169	5845	MCS0	13.50	13.17
		173	5865		13.50	13.29
		177	5885		13.50	13.28
	802.11ac20-VHT0	169	5845	MCS0	13.50	13.29
		173	5865		13.50	13.19
		177	5885		13.50	13.27
	802.11ax20-HE0	169	5845	MCS0	13.50	13.26
		173	5865		13.50	13.27
		177	5885		13.50	13.18
	802.11n40-HT0	167	5835	MCS0	13.50	13.13
		175	5875		13.50	13.16
	802.11ac40-VHT0	167	5835	MCS0	13.50	13.19
		175	5875		13.50	13.29
	802.11ax40-HE0	167	5835	MCS0	13.50	13.24
		175	5875		13.50	13.17
	802.11ac80-VHT0	171	5855	MCS0	13.50	13.49
	802.11ax80-HE0	171	5855	MCS0	13.50	13.24
	802.11ac160-VHT0	163	5815	MCS0	12.50	12.13
	802.11ax160-HE0	163	5815	MCS0	12.50	12.23

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	15.50	15.48
		6	2437		15.50	15.47
		11	2462		15.50	15.49
	802.11g	1	2412	6Mbps	15.50	15.12
		6	2437		15.50	15.11
		11	2462		15.50	15.13
	802.11n20-HT0	1	2412	MCS0	15.50	15.25
		6	2437		15.50	15.28
		11	2462		15.50	15.20
	802.11ac20-VHT0	1	2412	MCS0	15.50	15.22
		6	2437		15.50	15.30
		11	2462		15.50	15.28
	802.11ax20-HE0	1	2412	MCS0	15.50	15.24
		6	2437		15.50	15.21
		11	2462		15.50	15.18
	802.11n40-HT0	3	2422	MCS0	15.00	14.72
		6	2437		15.50	15.20
		9	2452		15.00	14.69
	802.11ac40-VHT0	3	2422	MCS0	15.00	14.61
		6	2437		15.50	15.24
		9	2452		15.00	14.73
	802.11ax40-HE0	3	2422	MCS0	15.00	14.65
		6	2437		15.50	15.15
		9	2452		15.00	14.61

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Tx2						
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	13.18
		40	5200		13.50	13.17
		44	5220		13.50	13.16
		48	5240		13.50	13.22
	802.11n20-HT0	36	5180	MCS0	13.50	13.21
		40	5200		13.50	13.11
		44	5220		13.50	13.19
		48	5240		13.50	13.15
	802.11ac20-VHT0	36	5180	MCS0	13.50	13.10
		40	5200		13.50	13.19
		44	5220		13.50	13.20
		48	5240		13.50	13.20
	802.11ax20-HE0	36	5180	MCS0	13.50	13.21
		40	5200		13.50	13.18
		44	5220		13.50	13.28
		48	5240		13.50	13.29
	802.11n40-HT0	38	5190	MCS0	13.50	13.25
		46	5230		13.50	13.13
	802.11ac40-VHT0	38	5190	MCS0	13.50	13.21
		46	5230		13.50	13.23
	802.11ax40-HE0	38	5190	MCS0	13.50	13.11
		46	5230		13.50	13.22
	802.11ac80-VHT0	42	5210	MCS0	13.50	13.49
	802.11ax80-HE0	42	5210	MCS0	13.50	13.14
	802.11ac160-VHT0	50	5250	MCS0	10.50	10.11
	802.11ax160-HE0	50	5250	MCS0	10.50	10.21

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Tx2						
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	13.50	13.27
		56	5280		13.50	13.22
		60	5300		13.50	13.17
		64	5320		13.50	13.12
	802.11n20-HT0	52	5260	MCS0	13.50	13.14
		56	5280		13.50	13.11
		60	5300		13.50	13.11
		64	5320		13.50	13.13
	802.11ac20-VHT0	52	5260	MCS0	13.50	13.26
		56	5280		13.50	13.22
		60	5300		13.50	13.23
		64	5320		13.50	13.27
	802.11ax20-HE0	52	5260	MCS0	13.50	13.23
		56	5280		13.50	13.24
		60	5300		13.50	13.26
		64	5320		13.50	13.18
	802.11n40-HT0	54	5270	MCS0	13.50	13.29
		62	5310		13.50	13.12
	802.11ac40-VHT0	54	5270	MCS0	13.50	13.22
		62	5310		13.50	13.16
	802.11ax40-HE0	54	5270	MCS0	13.50	13.24
		62	5310		13.50	13.30
	802.11ac80-VHT0	58	5290	MCS0	13.50	13.49
	802.11ax80-HE0	58	5290	MCS0	13.50	13.29

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	13.50	13.12
		120	5600		13.50	13.11
		140	5700		13.50	13.24
		144	5720		13.50	13.27
	802.11n20-HT0	100	5500	MCS0	13.50	13.18
		120	5600		13.50	13.23
		140	5700		13.50	13.11
		144	5720		13.50	13.25
	802.11ac20-VHT0	100	5500	MCS0	13.50	13.23
		120	5600		13.50	13.20
		140	5700		13.50	13.17
		144	5720		13.50	13.14
	802.11ax20-HE0	100	5500	MCS0	13.50	13.18
		120	5600		13.50	13.16
		140	5700		13.50	13.27
		144	5720		13.50	13.21
	802.11n40-HT0	102	5510	MCS0	13.50	13.24
		118	5590		13.50	13.28
		134	5670		13.50	13.24
		142	5710		13.50	13.12
	802.11ac40-VHT0	102	5510	MCS0	13.50	13.26
		118	5590		13.50	13.12
		134	5670		13.50	13.20
		142	5710		13.50	13.29
	802.11ax40-HE0	102	5510	MCS0	13.50	13.21
		118	5590		13.50	13.18
		134	5670		13.50	13.25
		142	5710		13.50	13.14
	802.11ac80-VHT0	106	5530	MCS0	13.50	13.47
		122	5610		13.50	13.48
		138	5690		13.50	13.49
	802.11ax80-HE0	106	5530	MCS0	13.50	13.17
		122	5610		13.50	13.27
		138	5690		13.50	13.17
	802.11ac160-VHT0	114	5570	MCS0	9.50	9.17
	802.11ax160-HE0	114	5570	MCS0	9.50	9.13

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	13.50	13.26
		157	5785		13.50	13.21
		165	5825		13.50	13.20
	802.11n20-HT0	149	5745	MCS0	13.50	13.22
		157	5785		13.50	13.16
		165	5825		13.50	13.27
	802.11ac20-VHT0	149	5745	MCS0	13.50	13.27
		157	5785		13.50	13.20
		165	5825		13.50	13.22
	802.11ax20-HE0	149	5745	MCS0	13.50	13.20
		157	5785		13.50	13.22
		165	5825		13.50	13.29
	802.11n40-HT0	151	5755	MCS0	13.50	13.26
		159	5795		13.50	13.18
	802.11ac40-VHT0	151	5755	MCS0	13.50	13.23
		159	5795		13.50	13.18
	802.11ax40-HE0	151	5755	MCS0	13.50	13.22
		159	5795		13.50	13.26
	802.11ac80-VHT0	155	5775	MCS0	13.50	13.49
	802.11ax80-HE0	155	5775	MCS0	13.50	13.25

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Tx2						
Band	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	13.23
		173	5865		13.50	13.14
		177	5885		13.50	13.15
	802.11n20-HT0	169	5845	MCS0	13.50	13.15
		173	5865		13.50	13.14
		177	5885		13.50	13.30
	802.11ac20-VHT0	169	5845	MCS0	13.50	13.26
		173	5865		13.50	13.17
		177	5885		13.50	13.14
	802.11ax20-HE0	169	5845	MCS0	13.50	13.15
		173	5865		13.50	13.14
		177	5885		13.50	13.15
	802.11n40-HT0	167	5835	MCS0	13.50	13.30
		175	5875		13.50	13.20
	802.11ac40-VHT0	167	5835	MCS0	13.50	13.26
		175	5875		13.50	13.11
	802.11ax40-HE0	167	5835	MCS0	13.50	13.19
		175	5875		13.50	13.29
	802.11ac80-VHT0	171	5855	MCS0	13.50	13.49
	802.11ax80-HE0	171	5855	MCS0	13.50	13.20
	802.11ac160-VHT0	163	5815	MCS0	12.50	12.19
	802.11ax160-HE0	163	5815	MCS0	12.50	12.26

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Notebook mode

Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	17.98
		6	2437		18.00	17.99
		11	2462		17.50	17.49
	802.11g	1	2412	6Mbps	18.00	17.99
		6	2437		20.00	19.99
		11	2462		18.00	17.98
	802.11n20-HT0	1	2412	MCS0	17.50	17.12
		6	2437		20.00	19.63
		11	2462		17.00	16.62
	802.11ac20-VHT0	1	2412	MCS0	17.50	17.23
		6	2437		20.00	19.71
		11	2462		17.00	16.62
	802.11ax20-HE0	1	2412	MCS0	17.50	17.15
		6	2437		20.00	19.71
		11	2462		17.50	17.29
	802.11n40-HT0	3	2422	MCS0	15.00	14.61
		6	2437		18.00	17.79
		9	2452		15.00	14.79
	802.11ac40-VHT0	3	2422	MCS0	15.00	14.66
		6	2437		18.00	17.62
		9	2452		15.00	14.63
	802.11ax40-HE0	3	2422	MCS0	15.00	14.69
		6	2437		18.00	17.63
		9	2452		15.00	14.78

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	19.00	18.68
		40	5200		19.00	18.76
		44	5220		19.00	18.67
		48	5240		19.00	18.77
	802.11n20-HT0	36	5180	MCS0	18.50	18.15
		40	5200		19.50	19.12
		44	5220		19.50	19.24
		48	5240		19.50	19.24
	802.11ac20-VHT0	36	5180	MCS0	18.50	18.27
		40	5200		19.50	19.18
		44	5220		19.50	19.20
		48	5240		19.50	19.22
	802.11ax20-HE0	36	5180	MCS0	18.50	18.24
		40	5200		19.50	19.14
		44	5220		19.50	19.21
		48	5240		19.50	19.21
	802.11n40-HT0	38	5190	MCS0	17.00	16.99
		46	5230		19.50	19.49
	802.11ac40-VHT0	38	5190	MCS0	17.00	16.60
		46	5230		19.50	19.28
	802.11ax40-HE0	38	5190	MCS0	17.00	16.76
		46	5230		19.50	19.13
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.68
	802.11ax80-HE0	42	5210	MCS0	14.00	13.75
	802.11ac160-VHT0	50	5250	MCS0	10.50	10.19
	802.11ax160-HE0	50	5250	MCS0	10.50	10.23

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	19.00	18.60
		56	5280		19.00	18.65
		60	5300		19.00	18.61
		64	5320		19.00	18.67
	802.11n20-HT0	52	5260	MCS0	19.50	19.15
		56	5280		19.50	19.21
		60	5300		19.00	18.74
		64	5320		19.00	18.80
	802.11ac20-VHT0	52	5260	MCS0	19.50	19.21
		56	5280		19.50	19.16
		60	5300		19.00	18.64
		64	5320		19.00	18.63
	802.11ax20-HE0	52	5260	MCS0	19.50	19.11
		56	5280		19.50	19.21
		60	5300		19.00	18.61
		64	5320		19.00	18.72
	802.11n40-HT0	54	5270	MCS0	19.50	19.49
		62	5310		16.50	16.49
	802.11ac40-VHT0	54	5270	MCS0	19.50	19.21
		62	5310		16.50	16.14
	802.11ax40-HE0	54	5270	MCS0	19.50	19.29
		62	5310		16.50	16.28
	802.11ac80-VHT0	58	5290	MCS0	14.50	14.15
	802.11ax80-HE0	58	5290	MCS0	14.50	14.22

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	19.00	18.78
		120	5600		19.00	18.62
		140	5700		19.00	18.76
		144	5720		19.00	18.67
	802.11n20-HT0	100	5500	MCS0	18.50	18.30
		120	5600		19.50	19.26
		140	5700		17.00	16.65
		144	5720		19.00	18.75
	802.11ac20-VHT0	100	5500	MCS0	18.50	18.10
		120	5600		19.50	19.18
		140	5700		17.00	16.67
		144	5720		19.00	18.70
	802.11ax20-HE0	100	5500	MCS0	18.50	18.20
		120	5600		19.50	19.21
		140	5700		17.00	16.72
		144	5720		19.00	18.62
	802.11n40-HT0	102	5510	MCS0	16.50	16.49
		118	5590		19.00	18.99
		134	5670		18.00	17.99
		142	5710		19.50	19.49
	802.11ac40-VHT0	102	5510	MCS0	16.50	16.14
		118	5590		19.00	18.74
		134	5670		18.00	17.66
		142	5710		19.50	19.29
	802.11ax40-HE0	102	5510	MCS0	16.50	16.27
		118	5590		19.00	18.70
		134	5670		18.00	17.69
		142	5710		19.50	19.17
	802.11ac80-VHT0	106	5530	MCS0	15.50	15.17
		122	5610		17.50	17.10
		138	5690		19.00	18.78
	802.11ax80-HE0	106	5530	MCS0	15.50	15.18
		122	5610		17.50	17.19
		138	5690		19.00	18.62
	802.11ac160-VHT0	114	5570	MCS0	9.50	9.12
	802.11ax160-HE0	114	5570	MCS0	9.50	9.19

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	20.99
		157	5785		20.50	20.49
		165	5825		21.00	20.98
	802.11n20-HT0	149	5745	MCS0	19.50	19.24
		157	5785		19.50	19.24
		165	5825		19.50	19.30
	802.11ac20-VHT0	149	5745	MCS0	19.50	19.11
		157	5785		19.50	19.21
		165	5825		19.50	19.29
	802.11ax20-HE0	149	5745	MCS0	19.50	19.19
		157	5785		19.50	19.28
		165	5825		19.50	19.24
	802.11n40-HT0	151	5755	MCS0	19.50	19.10
		159	5795		19.50	19.26
	802.11ac40-VHT0	151	5755	MCS0	19.50	19.16
		159	5795		19.50	19.18
	802.11ax40-HE0	151	5755	MCS0	19.50	19.19
		159	5795		19.50	19.28
	802.11ac80-VHT0	155	5775	MCS0	17.50	17.15
	802.11ax80-HE0	155	5775	MCS0	17.50	17.13
Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	14.00	13.63
		173	5865		14.00	13.74
		177	5885		14.00	13.68
	802.11n20-HT0	169	5845	MCS0	14.00	13.78
		173	5865		14.00	13.80
		177	5885		14.00	13.74
	802.11ac20-VHT0	169	5845	MCS0	14.50	14.28
		173	5865		14.50	14.24
		177	5885		14.50	14.12
	802.11ax20-HE0	169	5845	MCS0	14.50	14.25
		173	5865		14.50	14.25
		177	5885		14.50	14.22
	802.11n40-HT0	167	5835	MCS0	19.50	19.49
		175	5875		19.50	19.48
	802.11ac40-VHT0	167	5835	MCS0	19.50	19.30
		175	5875		19.50	19.27
	802.11ax40-HE0	167	5835	MCS0	17.00	16.75
		175	5875		17.00	16.71
	802.11ac80-VHT0	171	5855	MCS0	19.00	18.74
	802.11ax80-HE0	171	5855	MCS0	19.00	18.66
	802.11ac160-VHT0	163	5815	MCS0	12.50	12.13
	802.11ax160-HE0	163	5815	MCS0	12.50	12.23

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	17.99
		6	2437		18.00	17.98
		11	2462		17.50	17.49
	802.11g	1	2412	6Mbps	18.00	17.99
		6	2437		20.00	19.99
		11	2462		18.00	17.99
	802.11n20-HT0	1	2412	MCS0	17.50	17.16
		6	2437		20.00	19.61
		11	2462		17.00	16.71
	802.11ac20-VHT0	1	2412	MCS0	17.50	17.17
		6	2437		20.00	19.64
		11	2462		17.00	16.67
	802.11ax20-HE0	1	2412	MCS0	17.50	17.23
		6	2437		20.00	19.76
		11	2462		17.50	17.17
	802.11n40-HT0	3	2422	MCS0	15.00	14.80
		6	2437		18.00	17.73
		9	2452		15.00	14.69
	802.11ac40-VHT0	3	2422	MCS0	15.00	14.66
		6	2437		18.00	17.62
		9	2452		15.00	14.79
	802.11ax40-HE0	3	2422	MCS0	15.00	14.68
		6	2437		18.00	17.72
		9	2452		15.00	14.74

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	19.00	18.78
		40	5200		19.00	18.76
		44	5220		19.00	18.75
		48	5240		19.00	18.80
	802.11n20-HT0	36	5180	MCS0	18.50	18.20
		40	5200		19.50	19.22
		44	5220		19.50	19.27
		48	5240		19.50	19.13
	802.11ac20-VHT0	36	5180	MCS0	18.50	18.22
		40	5200		19.50	19.16
		44	5220		19.50	19.22
		48	5240		19.50	19.21
	802.11ax20-HE0	36	5180	MCS0	18.50	18.19
		40	5200		19.50	19.20
		44	5220		19.50	19.22
		48	5240		19.50	19.25
	802.11n40-HT0	38	5190	MCS0	17.00	16.99
		46	5230		19.50	19.49
	802.11ac40-VHT0	38	5190	MCS0	17.00	16.75
		46	5230		19.50	19.12
	802.11ax40-HE0	38	5190	MCS0	17.00	16.75
		46	5230		19.50	19.24
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.65
	802.11ax80-HE0	42	5210	MCS0	14.00	13.76
	802.11ac160-VHT0	50	5250	MCS0	10.50	10.11
	802.11ax160-HE0	50	5250	MCS0	10.50	10.21

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	19.00	18.74
		56	5280		19.00	18.79
		60	5300		19.00	18.61
		64	5320		19.00	18.73
	802.11n20-HT0	52	5260	MCS0	19.50	19.17
		56	5280		19.50	19.24
		60	5300		19.00	18.74
		64	5320		19.00	18.74
	802.11ac20-VHT0	52	5260	MCS0	19.50	19.19
		56	5280		19.50	19.29
		60	5300		19.00	18.75
		64	5320		19.00	18.70
	802.11ax20-HE0	52	5260	MCS0	19.50	19.25
		56	5280		19.50	19.19
		60	5300		19.00	18.61
		64	5320		19.00	18.65
	802.11n40-HT0	54	5270	MCS0	19.50	19.49
		62	5310		16.50	16.49
	802.11ac40-VHT0	54	5270	MCS0	19.50	19.17
		62	5310		16.50	16.27
	802.11ax40-HE0	54	5270	MCS0	19.50	19.27
		62	5310		16.50	16.27
	802.11ac80-VHT0	58	5290	MCS0	14.50	14.17
	802.11ax80-HE0	58	5290	MCS0	14.50	14.20

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	19.00	18.67
		120	5600		19.00	18.79
		140	5700		19.00	18.74
		144	5720		19.00	18.67
	802.11n20-HT0	100	5500	MCS0	18.50	18.25
		120	5600		19.50	19.15
		140	5700		17.00	16.80
		144	5720		19.00	18.80
	802.11ac20-VHT0	100	5500	MCS0	18.50	18.17
		120	5600		19.50	19.10
		140	5700		17.00	16.73
		144	5720		19.00	18.73
	802.11ax20-HE0	100	5500	MCS0	18.50	18.24
		120	5600		19.50	19.18
		140	5700		17.00	16.69
		144	5720		19.00	18.68
	802.11n40-HT0	102	5510	MCS0	16.50	16.49
		118	5590		19.00	18.99
		134	5670		18.00	17.99
		142	5710		19.50	19.49
	802.11ac40-VHT0	102	5510	MCS0	16.50	16.23
		118	5590		19.00	18.71
		134	5670		18.00	17.74
		142	5710		19.50	19.16
	802.11ax40-HE0	102	5510	MCS0	16.50	16.20
		118	5590		19.00	18.71
		134	5670		18.00	17.60
		142	5710		19.50	19.29
	802.11ac80-VHT0	106	5530	MCS0	15.50	15.26
		122	5610		17.50	17.19
		138	5690		19.00	18.71
	802.11ax80-HE0	106	5530	MCS0	15.50	15.17
		122	5610		17.50	17.19
		138	5690		19.00	18.72
	802.11ac160-VHT0	114	5570	MCS0	9.50	9.17
	802.11ax160-HE0	114	5570	MCS0	9.50	9.13

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	20.99
		157	5785		20.50	20.49
		165	5825		21.00	20.98
	802.11n20-HT0	149	5745	MCS0	19.50	19.26
		157	5785		19.50	19.17
		165	5825		19.50	19.19
	802.11ac20-VHT0	149	5745	MCS0	19.50	19.24
		157	5785		19.50	19.10
		165	5825		19.50	19.11
	802.11ax20-HE0	149	5745	MCS0	19.50	19.16
		157	5785		19.50	19.24
		165	5825		19.50	19.26
	802.11n40-HT0	151	5755	MCS0	19.50	19.10
		159	5795		19.50	19.21
	802.11ac40-VHT0	151	5755	MCS0	19.50	19.15
		159	5795		19.50	19.18
	802.11ax40-HE0	151	5755	MCS0	19.50	19.14
		159	5795		19.50	19.11
	802.11ac80-VHT0	155	5775	MCS0	17.50	17.26
	802.11ax80-HE0	155	5775	MCS0	17.50	17.20
Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	14.00	13.66
		173	5865		14.00	13.74
		177	5885		14.00	13.77
	802.11n20-HT0	169	5845	MCS0	14.00	13.69
		173	5865		14.00	13.63
		177	5885		14.00	13.63
	802.11ac20-VHT0	169	5845	MCS0	14.50	14.28
		173	5865		14.50	14.28
		177	5885		14.50	14.16
	802.11ax20-HE0	169	5845	MCS0	14.50	14.21
		173	5865		14.50	14.25
		177	5885		14.50	14.26
	802.11n40-HT0	167	5835	MCS0	19.50	19.48
		175	5875		19.50	19.49
	802.11ac40-VHT0	167	5835	MCS0	19.50	19.30
		175	5875		19.50	19.13
	802.11ax40-HE0	167	5835	MCS0	17.00	16.65
		175	5875		17.00	16.67
	802.11ac80-VHT0	171	5855	MCS0	19.00	18.61
	802.11ax80-HE0	171	5855	MCS0	19.00	18.62
	802.11ac160-VHT0	163	5815	MCS0	12.50	12.19
	802.11ax160-HE0	163	5815	MCS0	12.50	12.26

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6.2 WLAN 6GHz

Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11a	1	5955	6Mbps	1.00	0.79
		45	6175		1.00	0.67
		93	6415		1.00	0.63
	802.11ax20-HE0	1	5955	MCS0	1.00	0.74
		45	6175		1.00	0.80
		93	6415		1.00	0.63
	802.11ax40-HE0	3	5965	MCS0	3.50	3.22
		43	6165		3.50	3.19
		91	6405		3.50	3.26
	802.11ax80-HE0	7	5985	MCS0	7.00	6.74
		39	6145		7.00	6.61
		87	6385		7.00	6.76
	802.11ax160-HE0	15	6025	MCS0	9.50	9.49
		47	6185		9.50	9.48
		79	6345		9.50	9.47
Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11a	97	6435	6Mbps	1.50	1.11
		105	6475		1.50	1.21
		113	6515		1.50	1.23
	802.11ax20-HE0	97	6435	MCS0	1.50	1.20
		105	6475		1.50	1.11
		113	6515		1.50	1.27
	802.11ax40-HE0	99	6445	MCS0	4.00	3.71
		107	6485		4.00	3.74
	802.11ax80-HE0	103	6465	MCS0	7.00	6.66
		119	6545		7.00	6.77
	802.11ax160-HE0	111	6505	MCS0	10.00	9.99

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11a	117	6535	6Mbps	1.00	0.74
		149	6695		1.00	0.74
		181	6855		1.00	0.66
	802.11ax20-HE0	117	6535	MCS0	1.50	1.28
		149	6695		1.50	1.14
		181	6855		1.50	1.18
	802.11ax40-HE0	115	6525	MCS0	4.00	3.79
		147	6685		4.00	3.71
		179	6845		4.00	3.70
	802.11ax80-HE0	135	6625	MCS0	7.00	6.69
		151	6705		7.00	6.78
		167	6785		7.00	6.74
	802.11ax160-HE0	143	6665	MCS0	9.50	9.48
		175	6825		9.50	9.49
Tx1						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11a	185	6875	6Mbps	1.00	0.78
		209	6995		1.50	1.21
		233	7115		1.50	1.12
	802.11ax20-HE0	185	6875	MCS0	1.50	1.11
		209	6995		2.00	1.68
		233	7115		2.00	1.65
	802.11ax40-HE0	187	6885	MCS0	4.50	4.11
		227	7085		4.50	4.17
	802.11ax80-HE0	183	6865	MCS0	7.00	6.70
		199	6945		7.50	7.27
		215	7025		7.50	7.29
	802.11ax160-HE0	207	6985	MCS0	10.00	9.99

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11a	1	5955	6Mbps	1.00	0.79
		45	6175		1.00	0.67
		93	6415		1.00	0.63
	802.11ax20-HE0	1	5955	MCS0	1.00	0.74
		45	6175		1.00	0.80
		93	6415		1.00	0.63
	802.11ax40-HE0	3	5965	MCS0	3.50	3.22
		43	6165		3.50	3.19
		91	6405		3.50	3.26
	802.11ax80-HE0	7	5985	MCS0	7.00	6.74
		39	6145		7.00	6.61
		87	6385		7.00	6.76
	802.11ax160-HE0	15	6025	MCS0	9.50	9.49
		47	6185		9.50	9.47
		79	6345		9.50	9.48
Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11a	97	6435	6Mbps	1.50	1.17
		105	6475		1.50	1.19
		113	6515		1.50	1.15
	802.11ax20-HE0	97	6435	MCS0	1.50	1.23
		105	6475		1.50	1.23
		113	6515		1.50	1.14
	802.11ax40-HE0	99	6445	MCS0	4.00	3.64
		107	6485		4.00	3.69
	802.11ax80-HE0	103	6465	MCS0	7.00	6.65
		119	6545		7.00	6.61
	802.11ax160-HE0	111	6505	MCS0	10.00	9.99

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11a	117	6535	6Mbps	1.00	0.79
		149	6695		1.00	0.62
		181	6855		1.00	0.66
	802.11ax20-HE0	117	6535	MCS0	1.50	1.24
		149	6695		1.50	1.17
		181	6855		1.50	1.24
	802.11ax40-HE0	115	6525	MCS0	4.00	3.70
		147	6685		4.00	3.79
		179	6845		4.00	3.62
	802.11ax80-HE0	135	6625	MCS0	7.00	6.69
		151	6705		7.00	6.65
		167	6785		7.00	6.77
	802.11ax160-HE0	143	6665	MCS0	9.50	9.49
		175	6825		9.50	9.48
Tx2						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11a	185	6875	6Mbps	1.00	0.77
		209	6995		1.50	1.15
		233	7115		1.50	1.28
	802.11ax20-HE0	185	6875	MCS0	1.50	1.30
		209	6995		2.00	1.78
		233	7115		2.00	1.66
	802.11ax40-HE0	187	6885	MCS0	4.50	4.21
		227	7085		4.50	4.20
	802.11ax80-HE0	183	6865	MCS0	7.00	6.72
		199	6945		7.50	7.26
		215	7025		7.50	7.28
	802.11ax160-HE0	207	6985	MCS0	10.00	9.99

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6.3 Bluetooth

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	11.50	11.31	8.50	8.22	8.50	8.17
	CH 39	2441		11.41		8.35		8.21
	CH 78	2480		11.49		8.47		8.37

6.4 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	11.5	11.32
	CH 19	2440		11.25
	CH 39	2480		11.40
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	11.5	11.07
	CH 19	2440		11.18
	CH 39	2480		11.34

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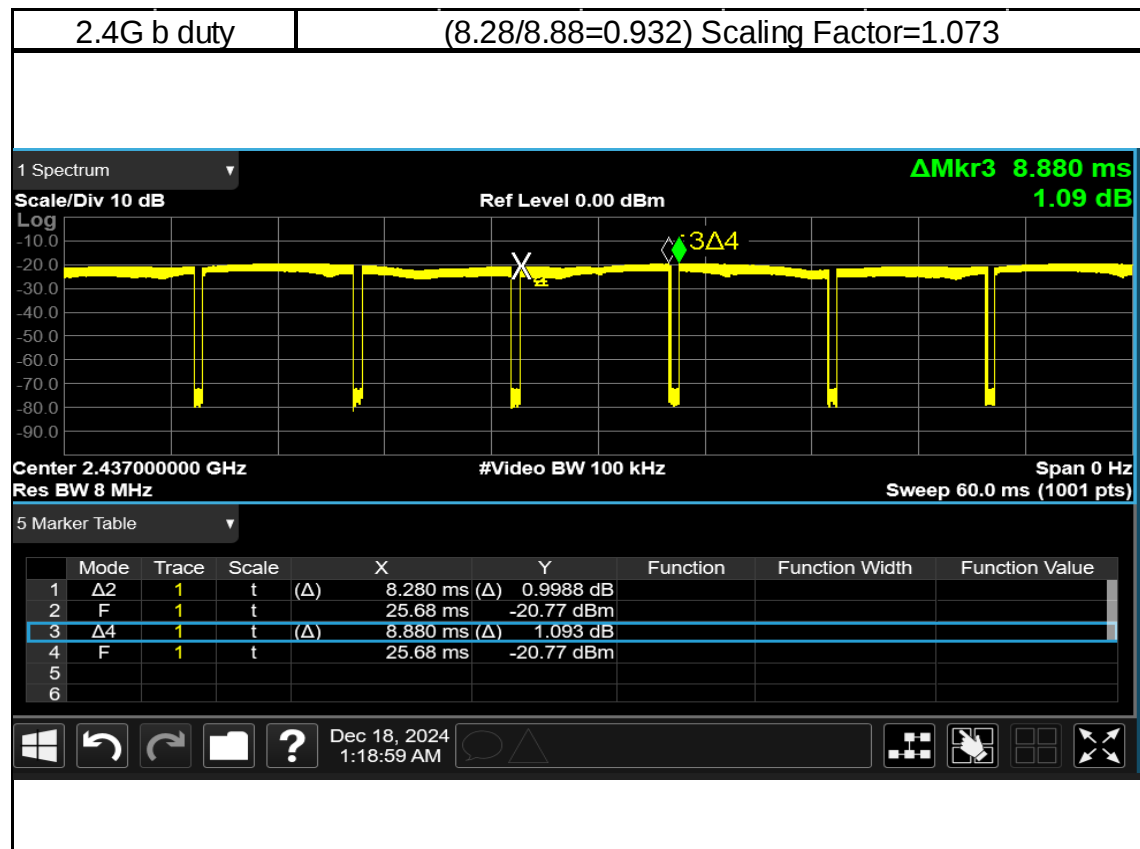
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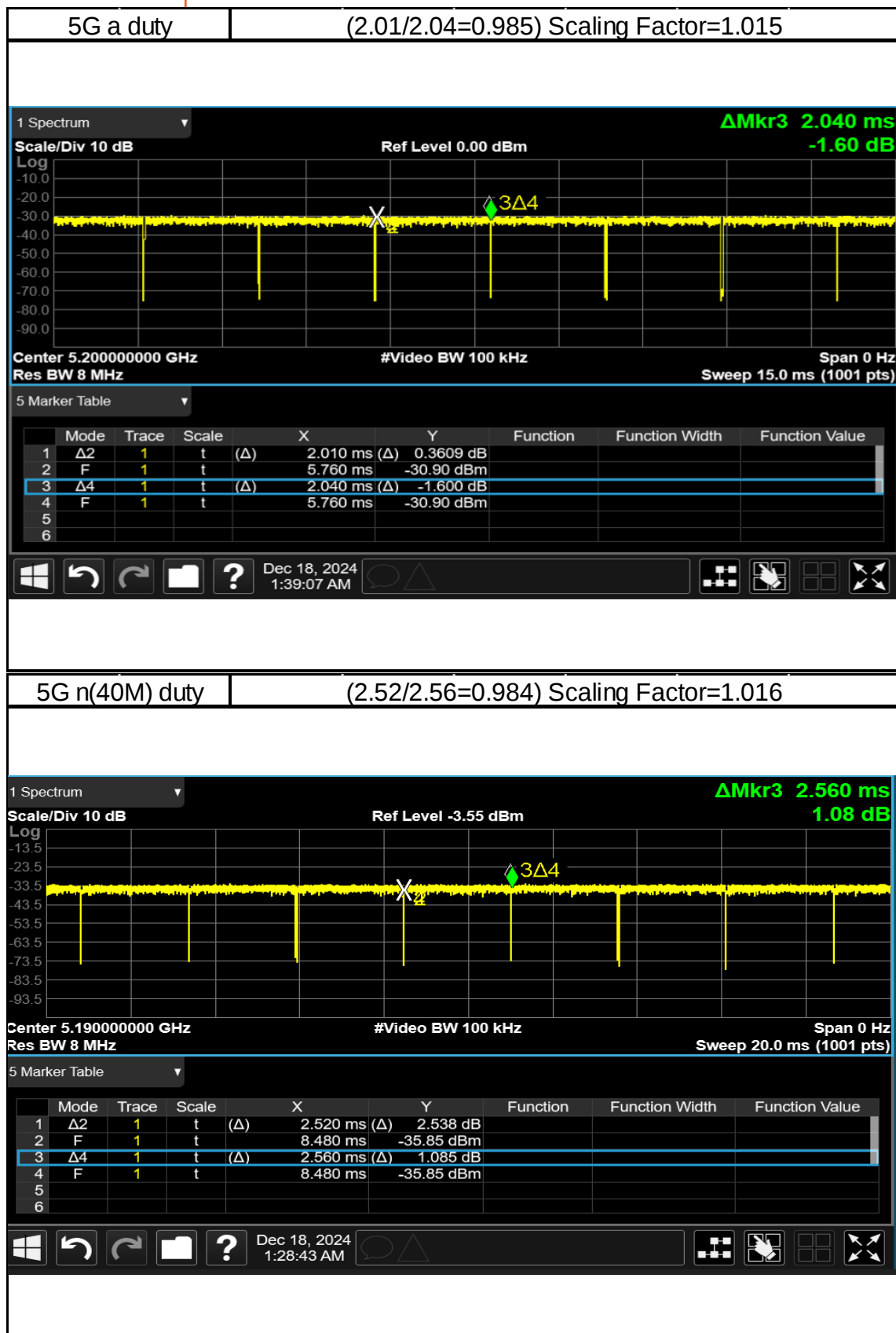
7 DUTY CYCLE



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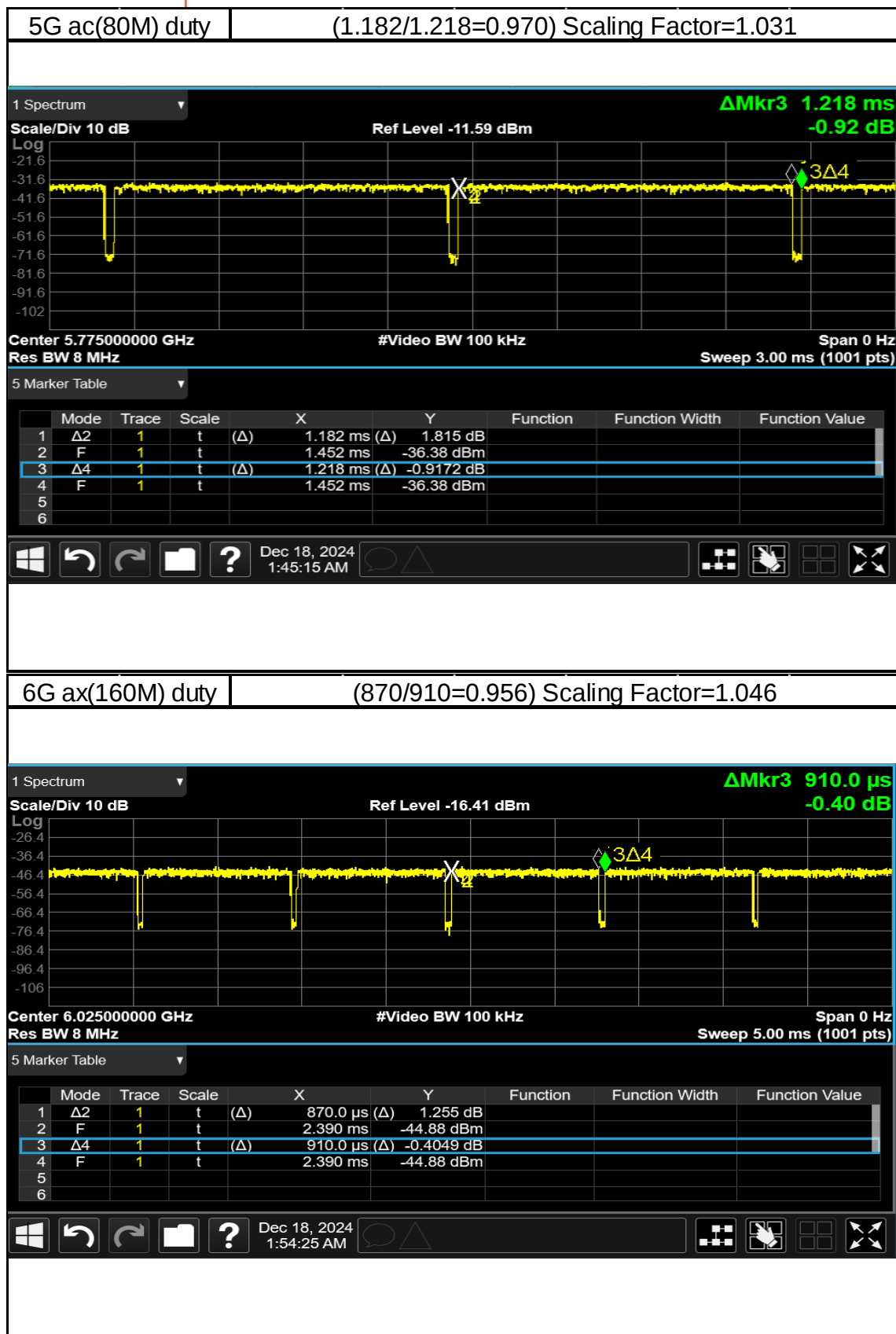
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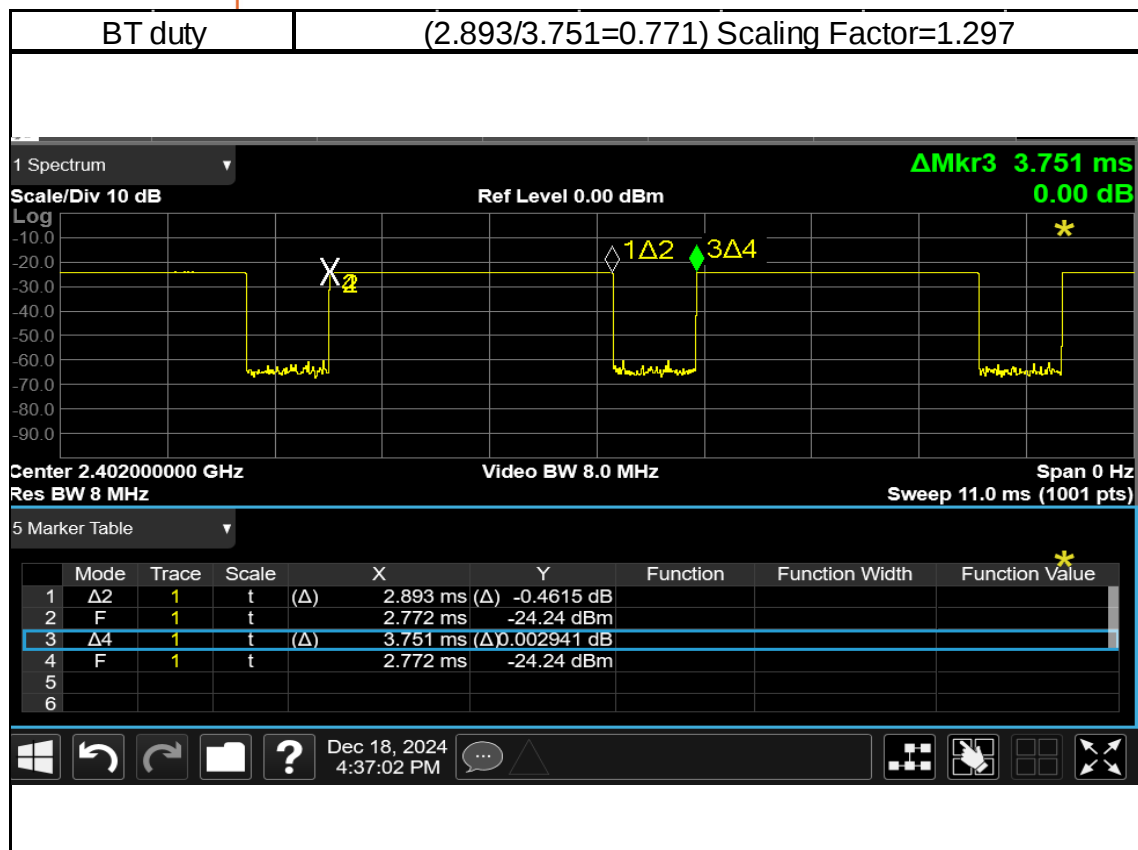
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8 SUMMARY OF RESULTS

8.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

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

8.2 Summary of SAR Results

Vendor 2

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	Tx1	Back Surface	0	1	2412	15.50	15.49	1.07	100.23%	0.122	0.131	-
WLAN 802.11b	Tx1	Top Edge	0	1	2412	15.50	15.49	1.07	100.23%	0.397	0.427	001
WLAN 802.11b	Tx1	Top Edge	0	6	2437	15.50	15.48	1.07	100.46%	0.339	0.365	-
WLAN 802.11b	Tx1	Top Edge	0	11	2462	15.50	15.47	1.07	100.69%	0.351	0.379	-
WLAN 802.11b	Tx1	Right Edge	0	1	2412	15.50	15.49	1.07	100.23%	0.005	0.005	-
WLAN 802.11b	Tx1	Left Edge	0	1	2412	15.50	15.49	1.07	100.23%	0.016	0.017	-
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	
Bluetooth(GFSK)	Tx1	Back Surface	0	78	2480	11.50	11.49	1.30	100.23%	0.072	0.094	-
Bluetooth(GFSK)	Tx1	Top Edge	0	00	2402	11.50	11.31	1.30	104.47%	0.203	0.275	-
Bluetooth(GFSK)	Tx1	Top Edge	0	39	2441	11.50	11.41	1.30	102.09%	0.189	0.250	-
Bluetooth(GFSK)	Tx1	Top Edge	0	78	2480	11.50	11.49	1.30	100.23%	0.230	0.299	002
Bluetooth(GFSK)	Tx1	Right Edge	0	78	2480	11.50	11.49	1.30	100.23%	0.001	0.001	-
Bluetooth(GFSK)	Tx1	Left Edge	0	78	2480	11.50	11.49	1.30	100.23%	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 802.11ac(80M) 5.2G	Tx1	Back Surface	0	42	5210	13.50	13.49	1.03	100.23%	0.063	0.065	-
WLAN 802.11ac(80M) 5.2G	Tx1	Top Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.284	0.293	003
WLAN 802.11ac(80M) 5.2G	Tx1	Right Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.2G	Tx1	Left Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Tx1	Back Surface	0	58	5290	13.50	13.49	1.03	100.23%	0.052	0.054	-
WLAN 802.11ac(80M) 5.3G	Tx1	Top Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.188	0.194	004
WLAN 802.11ac(80M) 5.3G	Tx1	Right Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.3G	Tx1	Left Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Tx1	Back Surface	0	106	5530	13.50	13.49	1.03	100.23%	0.061	0.063	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	106	5530	13.50	13.49	1.03	100.23%	0.205	0.212	005
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	122	5610	13.50	13.47	1.03	100.69%	0.194	0.201	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	138	5690	13.50	13.48	1.03	100.46%	0.188	0.195	-
WLAN 802.11ac(80M) 5.6G	Tx1	Right Edge	0	106	5530	13.50	13.49	1.03	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.6G	Tx1	Left Edge	0	106	5530	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Tx1	Back Surface	0	155	5775	13.50	13.49	1.03	100.23%	0.055	0.057	-
WLAN 802.11ac(80M) 5.8G	Tx1	Top Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.178	0.184	006
WLAN 802.11ac(80M) 5.8G	Tx1	Right Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.8G	Tx1	Left Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.9G	Tx1	Back Surface	0	171	5855	13.50	13.49	1.03	100.23%	0.075	0.078	-
WLAN 802.11ac(80M) 5.9G	Tx1	Top Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.248	0.256	007
WLAN 802.11ac(80M) 5.9G	Tx1	Right Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.9G	Tx1	Left Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Tx2	Back Surface	0	11	2462	15.50	15.49	1.07	100.23%	0.039	0.042	-
WLAN 802.11b	Tx2	Top Edge	0	1	2412	15.50	15.48	1.07	100.46%	0.262	0.282	-
WLAN 802.11b	Tx2	Top Edge	0	6	2437	15.50	15.47	1.07	100.69%	0.258	0.279	-
WLAN 802.11b	Tx2	Top Edge	0	11	2462	15.50	15.49	1.07	100.23%	0.294	0.316	008
WLAN 802.11b	Tx2	Right Edge	0	11	2462	15.50	15.49	1.07	100.23%	0.001	0.001	-
WLAN 802.11b	Tx2	Left Edge	0	11	2462	15.50	15.49	1.07	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.2G	Tx2	Back Surface	0	42	5210	13.50	13.49	1.03	100.23%	0.076	0.079	-
WLAN 802.11ac(80M) 5.2G	Tx2	Top Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.285	0.295	009
WLAN 802.11ac(80M) 5.2G	Tx2	Right Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.015	0.016	-
WLAN 802.11ac(80M) 5.2G	Tx2	Left Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.001	0.001	-

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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Tx2	Back Surface	0	58	5290	13.50	13.49	1.03	100.23%	0.071	0.073	-
WLAN 802.11ac(80M) 5.3G	Tx2	Top Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.264	0.273	010
WLAN 802.11ac(80M) 5.3G	Tx2	Right Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.013	0.013	-
WLAN 802.11ac(80M) 5.3G	Tx2	Left Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Tx2	Back Surface	0	138	5690	13.50	13.49	1.03	100.23%	0.065	0.067	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	106	5530	13.50	13.47	1.03	100.69%	0.182	0.189	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	122	5610	13.50	13.48	1.03	100.46%	0.177	0.183	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	138	5690	13.50	13.49	1.03	100.23%	0.201	0.208	011
WLAN 802.11ac(80M) 5.6G	Tx2	Right Edge	0	138	5690	13.50	13.49	1.03	100.23%	0.008	0.008	-
WLAN 802.11ac(80M) 5.6G	Tx2	Left Edge	0	138	5690	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Tx2	Back Surface	0	155	5775	13.50	13.49	1.03	100.23%	0.067	0.069	-
WLAN 802.11ac(80M) 5.8G	Tx2	Top Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.208	0.215	012
WLAN 802.11ac(80M) 5.8G	Tx2	Right Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.007	0.008	-
WLAN 802.11ac(80M) 5.8G	Tx2	Left Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.9G	Tx2	Back Surface	0	171	5855	13.50	13.49	1.03	100.23%	0.075	0.078	-
WLAN 802.11ac(80M) 5.9G	Tx2	Top Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.242	0.250	013
WLAN 802.11ac(80M) 5.9G	Tx2	Right Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.017	0.018	-
WLAN 802.11ac(80M) 5.9G	Tx2	Left Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.001	0.001	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Back Surface	0	15	6025	9.50	9.49	1.05	100.23%	0.022	0.023	0.167	0.175	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Back Surface	0	47	6185	9.50	9.48	1.05	100.46%	0.017	0.018	0.122	0.128	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Top Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.099	0.104	0.582	0.610	014
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Top Edge	0	47	6185	9.50	9.48	1.05	100.46%	0.069	0.073	0.427	0.449	015
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Top Edge	0	79	6345	9.50	9.47	1.05	100.69%	0.055	0.058	0.394	0.415	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Right Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.005	0.005	0.038	0.040	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Right Edge	0	47	6185	9.50	9.48	1.05	100.46%	0.004	0.004	0.035	0.037	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Left Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.004	0.004	0.047	0.049	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Left Edge	0	47	6185	9.50	9.48	1.05	100.46%	0.003	0.003	0.041	0.043	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Tx1	Back Surface	0	111	6505	10.00	9.99	1.05	100.23%	0.024	0.025	0.182	0.191	-
U-NII-6 6.5GHz 802.11ax(160M)	Tx1	Top Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.093	0.098	0.573	0.601	016
U-NII-6 6.5GHz 802.11ax(160M)	Tx1	Right Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.004	0.004	0.032	0.034	-
U-NII-6 6.5GHz 802.11ax(160M)	Tx1	Left Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.005	0.005	0.04	0.042	-
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-7 6.7GHz 802.11ax(160M)	Tx1	Back Surface	0	175	6825	9.50	9.49	1.05	100.23%	0.021	0.022	0.168	0.176	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx1	Top Edge	0	143	6665	9.50	9.48	1.05	100.46%	0.074	0.078	0.403	0.423	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx1	Top Edge	0	175	6825	9.50	9.49	1.05	100.23%	0.083	0.087	0.475	0.498	017
U-NII-7 6.7GHz 802.11ax(160M)	Tx1	Right Edge	0	175	6825	9.50	9.49	1.05	100.23%	0.005	0.005	0.042	0.044	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx1	Left Edge	0	175	6825	9.50	9.49	1.05	100.23%	0.007	0.007	0.066	0.069	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Tx1	Back Surface	0	207	6985	10.00	9.99	1.05	100.23%	0.032	0.034	0.211	0.221	-
U-NII-8 7.0GHz 802.11ax(160M)	Tx1	Top Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.120	0.126	0.711	0.745	018
U-NII-8 7.0GHz 802.11ax(160M)	Tx1	Right Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.010	0.010	0.083	0.087	-
U-NII-8 7.0GHz 802.11ax(160M)	Tx1	Left Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.012	0.013	0.102	0.107	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Back Surface	0	15	6025	9.50	9.49	1.05	100.23%	0.024	0.025	0.204	0.214	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Back Surface	0	79	6345	9.50	9.48	1.05	100.46%	0.021	0.022	0.184	0.193	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Top Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.057	0.060	0.391	0.410	019
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Top Edge	0	47	6185	9.50	9.47	1.05	100.69%	0.065	0.068	0.443	0.467	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Top Edge	0	79	6345	9.50	9.48	1.05	100.46%	0.070	0.074	0.518	0.544	020
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Right Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.014	0.015	0.092	0.096	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Right Edge	0	79	6345	9.50	9.48	1.05	100.46%	0.014	0.015	0.089	0.094	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Left Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.005	0.005	0.044	0.046	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Left Edge	0	79	6345	9.50	9.48	1.05	100.46%	0.004	0.004	0.038	0.040	-
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 6.5GHz 802.11ax(160M)	Tx2	Back Surface	0	111	6505	10.00	9.99	1.05	100.23%	0.018	0.019	0.143	0.150	-
U-NII-6 6.5GHz 802.11ax(160M)	Tx2	Top Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.060	0.063	0.423	0.443	021
U-NII-6 6.5GHz 802.11ax(160M)	Tx2	Right Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.012	0.013	0.079	0.083	-
U-NII-6 6.5GHz 802.11ax(160M)	Tx2	Left Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.006	0.006	0.049	0.051	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Back Surface	0	143	6665	9.50	9.49	1.05	100.23%	0.015	0.016	0.131	0.137	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Top Edge	0	143	6665	9.50	9.49	1.05	100.23%	0.045	0.047	0.323	0.339	022
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Top Edge	0	175	6825	9.50	9.48	1.05	100.46%	0.041	0.043	0.302	0.317	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Right Edge	0	143	6665	9.50	9.49	1.05	100.23%	0.010	0.010	0.065	0.068	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Left Edge	0	143	6665	9.50	9.49	1.05	100.23%	0.005	0.005	0.04	0.042	-

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-8 7.0GHz 802.11ax(160M)	Tx2	Back Surface	0	207	6985	10.00	9.99	1.05	100.23%	0.012	0.013	0.111	0.116	-
U-NII-8 7.0GHz 802.11ax(160M)	Tx2	Top Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.030	0.031	0.206	0.216	023
U-NII-8 7.0GHz 802.11ax(160M)	Tx2	Right Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.008	0.008	0.055	0.058	-
U-NII-8 7.0GHz 802.11ax(160M)	Tx2	Left Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.003	0.003	0.031	0.033	-

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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	Tx1	Back Surface	0	1	2412	15.50	15.49	1.07	100.23%	0.099	0.106	-
WLAN 802.11b	Tx1	Top Edge	0	1	2412	15.50	15.49	1.07	100.23%	0.262	0.282	067
WLAN 802.11b	Tx1	Top Edge	0	6	2437	15.50	15.48	1.07	100.46%	0.236	0.254	-
WLAN 802.11b	Tx1	Top Edge	0	11	2462	15.50	15.47	1.07	100.69%	0.241	0.260	-
WLAN 802.11b	Tx1	Right Edge	0	1	2412	15.50	15.49	1.07	100.23%	0.005	0.005	-
WLAN 802.11b	Tx1	Left Edge	0	1	2412	15.50	15.49	1.07	100.23%	0.012	0.013	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	Tx1	Back Surface	0	78	2480	11.50	11.49	1.30	100.23%	0.068	0.088	-
Bluetooth(GFSK)	Tx1	Top Edge	0	00	2402	11.50	11.31	1.30	104.47%	0.202	0.274	-
Bluetooth(GFSK)	Tx1	Top Edge	0	39	2441	11.50	11.41	1.30	102.09%	0.189	0.250	-
Bluetooth(GFSK)	Tx1	Top Edge	0	78	2480	11.50	11.49	1.30	100.23%	0.223	0.290	058
Bluetooth(GFSK)	Tx1	Right Edge	0	78	2480	11.50	11.49	1.30	100.23%	0.001	0.001	-
Bluetooth(GFSK)	Tx1	Left Edge	0	78	2480	11.50	11.49	1.30	100.23%	0.007	0.009	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.2G	Tx1	Back Surface	0	42	5210	13.50	13.49	1.03	100.23%	0.044	0.045	-
WLAN 802.11ac(80M) 5.2G	Tx1	Top Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.295	0.305	059
WLAN 802.11ac(80M) 5.2G	Tx1	Right Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.2G	Tx1	Left Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Tx1	Back Surface	0	58	5290	13.50	13.49	1.03	100.23%	0.073	0.075	-
WLAN 802.11ac(80M) 5.3G	Tx1	Top Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.301	0.311	060
WLAN 802.11ac(80M) 5.3G	Tx1	Right Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.3G	Tx1	Left Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Tx1	Back Surface	0	106	5530	13.50	13.49	1.03	100.23%	0.129	0.133	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	106	5530	13.50	13.49	1.03	100.23%	0.412	0.426	061
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	122	5610	13.50	13.47	1.03	100.69%	0.385	0.400	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	138	5690	13.50	13.48	1.03	100.46%	0.391	0.405	-
WLAN 802.11ac(80M) 5.6G	Tx1	Right Edge	0	106	5530	13.50	13.49	1.03	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.6G	Tx1	Left Edge	0	106	5530	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Tx1	Back Surface	0	155	5775	13.50	13.49	1.03	100.23%	0.082	0.085	-
WLAN 802.11ac(80M) 5.8G	Tx1	Top Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.263	0.272	062
WLAN 802.11ac(80M) 5.8G	Tx1	Right Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.8G	Tx1	Left Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.9G	Tx1	Back Surface	0	171	5855	13.50	13.49	1.03	100.23%	0.104	0.107	-
WLAN 802.11ac(80M) 5.9G	Tx1	Top Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.317	0.328	063
WLAN 802.11ac(80M) 5.9G	Tx1	Right Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.9G	Tx1	Left Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Tx2	Back Surface	0	11	2462	15.50	15.49	1.07	100.23%	0.065	0.070	-
WLAN 802.11b	Tx2	Top Edge	0	1	2412	15.50	15.48	1.07	100.46%	0.455	0.490	-
WLAN 802.11b	Tx2	Top Edge	0	6	2437	15.50	15.47	1.07	100.69%	0.482	0.521	-
WLAN 802.11b	Tx2	Top Edge	0	11	2462	15.50	15.49	1.07	100.23%	0.511	0.550	064
WLAN 802.11b	Tx2	Right Edge	0	11	2462	15.50	15.49	1.07	100.23%	0.014	0.015	-
WLAN 802.11b	Tx2	Left Edge	0	11	2462	15.50	15.49	1.07	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.2G	Tx2	Back Surface	0	42	5210	13.50	13.49	1.03	100.23%	0.084	0.087	-
WLAN 802.11ac(80M) 5.2G	Tx2	Top Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.310	0.320	065
WLAN 802.11ac(80M) 5.2G	Tx2	Right Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.018	0.019	-
WLAN 802.11ac(80M) 5.2G	Tx2	Left Edge	0	42	5210	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Tx2	Back Surface	0	58	5290	13.50	13.49	1.03	100.23%	0.064	0.066	-
WLAN 802.11ac(80M) 5.3G	Tx2	Top Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.264	0.273	066
WLAN 802.11ac(80M) 5.3G	Tx2	Right Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.013	0.013	-
WLAN 802.11ac(80M) 5.3G	Tx2	Left Edge	0	58	5290	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Tx2	Back Surface	0	138	5690	13.50	13.49	1.03	100.23%	0.072	0.074	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	106	5530	13.50	13.47	1.03	100.69%	0.204	0.212	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	122	5610	13.50	13.48	1.03	100.46%	0.185	0.192	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	138	5690	13.50	13.49	1.03	100.23%	0.222	0.229	067
WLAN 802.11ac(80M) 5.6G	Tx2	Right Edge	0	138	5690	13.50	13.49	1.03	100.23%	0.007	0.008	-
WLAN 802.11ac(80M) 5.6G	Tx2	Left Edge	0	138	5690	13.50	13.49	1.03	100.23%	0.001	0.001	-

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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Tx2	Back Surface	0	155	5775	13.50	13.49	1.03	100.23%	0.071	0.073	-
WLAN 802.11ac(80M) 5.8G	Tx2	Top Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.229	0.237	068
WLAN 802.11ac(80M) 5.8G	Tx2	Right Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.009	0.010	-
WLAN 802.11ac(80M) 5.8G	Tx2	Left Edge	0	155	5775	13.50	13.49	1.03	100.23%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.9G	Tx2	Back Surface	0	171	5855	13.50	13.49	1.03	100.23%	0.083	0.086	-
WLAN 802.11ac(80M) 5.9G	Tx2	Top Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.263	0.272	069
WLAN 802.11ac(80M) 5.9G	Tx2	Right Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.015	0.016	-
WLAN 802.11ac(80M) 5.9G	Tx2	Left Edge	0	171	5855	13.50	13.49	1.03	100.23%	0.001	0.001	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Back Surface	0	15	6025	9.50	9.49	1.05	100.23%	0.009	0.009	0.122	0.128	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Back Surface	0	47	6185	9.50	9.48	1.05	100.46%	0.008	0.008	0.121	0.127	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Top Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.119	0.125	0.771	0.808	070
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Top Edge	0	47	6185	9.50	9.48	1.05	100.46%	0.065	0.068	0.419	0.440	071
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Top Edge	0	79	6345	9.50	9.47	1.05	100.69%	0.062	0.065	0.389	0.410	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Right Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.004	0.004	0.058	0.061	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Right Edge	0	47	6185	9.50	9.48	1.05	100.46%	0.002	0.002	0.04	0.042	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Left Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.003	0.003	0.026	0.027	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Left Edge	0	47	6185	9.50	9.48	1.05	100.46%	0.004	0.004	0.035	0.037	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Tx1	Back Surface	0	111	6505	10.00	9.99	1.05	100.23%	0.030	0.031	0.246	0.258	-
U-NII-6 6.5GHz 802.11ax(160M)	Tx1	Top Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.085	0.089	0.53	0.556	072
U-NII-6 6.5GHz 802.11ax(160M)	Tx1	Right Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.005	0.005	0.045	0.047	-
U-NII-6 6.5GHz 802.11ax(160M)	Tx1	Left Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.006	0.006	0.051	0.053	-
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)	Tx1	Back Surface	0	175	6825	9.50	9.49	1.05	100.23%	0.078	0.082	0.733	0.768	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx1	Top Edge	0	143	6665	9.50	9.48	1.05	100.46%	0.287	0.302	2.17	2.280	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx1	Top Edge	0	175	6825	9.50	9.49	1.05	100.23%	0.411	0.431	2.85	2.988	073
U-NII-7 6.7GHz 802.11ax(160M)	Tx1	Right Edge	0	175	6825	9.50	9.49	1.05	100.23%	0.012	0.013	0.104	0.109	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx1	Left Edge	0	175	6825	9.50	9.49	1.05	100.23%	0.015	0.016	0.136	0.143	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Tx1	Back Surface	0	207	6985	10.00	9.99	1.05	100.23%	0.021	0.022	0.187	0.196	-
U-NII-8 7.0GHz 802.11ax(160M)	Tx1	Top Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.069	0.072	0.448	0.470	074
U-NII-8 7.0GHz 802.11ax(160M)	Tx1	Right Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.008	0.008	0.065	0.068	-
U-NII-8 7.0GHz 802.11ax(160M)	Tx1	Left Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.010	0.010	0.079	0.083	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Back Surface	0	15	6025	9.50	9.49	1.05	100.23%	0.005	0.005	0.027	0.028	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Back Surface	0	79	6345	9.50	9.48	1.05	100.46%	0.004	0.004	0.022	0.023	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Top Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.073	0.077	0.436	0.457	075
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Top Edge	0	47	6185	9.50	9.47	1.05	100.69%	0.056	0.059	0.341	0.359	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Top Edge	0	79	6345	9.50	9.48	1.05	100.46%	0.064	0.067	0.416	0.437	076
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Right Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.013	0.014	0.144	0.151	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Right Edge	0	79	6345	9.50	9.48	1.05	100.46%	0.011	0.012	0.123	0.129	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Left Edge	0	15	6025	9.50	9.49	1.05	100.23%	0.004	0.004	0.056	0.059	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Left Edge	0	79	6345	9.50	9.48	1.05	100.46%	0.005	0.005	0.059	0.062	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Tx2	Back Surface	0	111	6505	10.00	9.99	1.05	100.23%	0.007	0.007	0.045	0.047	-
U-NII-6 6.5GHz 802.11ax(160M)	Tx2	Top Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.086	0.090	0.613	0.643	077
U-NII-6 6.5GHz 802.11ax(160M)	Tx2	Right Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.015	0.016	0.155	0.163	-
U-NII-6 6.5GHz 802.11ax(160M)	Tx2	Left Edge	0	111	6505	10.00	9.99	1.05	100.23%	0.007	0.007	0.071	0.074	-
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)	Tx2	Back Surface	0	143	6665	9.50	9.49	1.05	100.23%	0.010	0.010	0.087	0.091	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Top Edge	0	143	6665	9.50	9.49	1.05	100.23%	0.098	0.103	0.724	0.759	078
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Top Edge	0	175	6825	9.50	9.48	1.05	100.46%	0.088	0.092	0.662	0.696	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Right Edge	0	143	6665	9.50	9.49	1.05	100.23%	0.016	0.017	0.167	0.175	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Left Edge	0	143	6665	9.50	9.49	1.05	100.23%	0.009	0.009	0.089	0.093	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Tx2	Back Surface	0	207	6985	10.00	9.99	1.05	100.23%	0.008	0.008	0.064	0.067	-
U-NII-8 7.0GHz 802.11ax(160M)	Tx2	Top Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.070	0.073	0.502	0.526	079
U-NII-8 7.0GHz 802.11ax(160M)	Tx2	Right Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.013	0.014	0.134	0.140	-
U-NII-8 7.0GHz 802.11ax(160M)	Tx2	Left Edge	0	207	6985	10.00	9.99	1.05	100.23%	0.008	0.008	0.076	0.080	-

Note:

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

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

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

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8.3 Summary of PD Results

Vendor 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 ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Tx1	Top Edge	2	15	6025	9.50	9.49	100.23%	1.05	1.55	1.640	2.665	1.610	2.616	024
	Tx1	Top Edge	2	47	6185	9.50	9.48	100.46%	1.05	1.55	1.540	2.508	1.500	2.443	025
WLAN 6E 802.11ax(160M) U-NII-6	Tx1	Top Edge	2	111	6505	10.00	9.99	100.23%	1.05	1.55	1.900	3.088	1.860	3.023	026
WLAN 6E 802.11ax(160M) U-NII-7	Tx1	Top Edge	2	175	6825	9.50	9.49	100.23%	1.05	1.55	1.580	2.568	1.540	2.503	027
WLAN 6E 802.11ax(160M) U-NII-8	Tx1	Top Edge	2	207	6985	10.00	9.99	100.23%	1.05	1.55	1.670	2.714	1.560	2.535	028
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Tx2	Top Edge	2	15	6025	9.50	9.49	100.23%	1.05	1.55	2.020	3.283	1.920	3.120	029
	Tx2	Top Edge	2	79	6345	9.50	9.48	100.46%	1.05	1.55	2.070	3.372	1.960	3.192	030
WLAN 6E 802.11ax(160M) U-NII-6	Tx2	Top Edge	2	111	6505	10.00	9.99	100.23%	1.05	1.55	2.010	3.266	1.950	3.169	031
WLAN 6E 802.11ax(160M) U-NII-7	Tx2	Top Edge	2	143	6665	9.50	9.49	100.23%	1.05	1.55	1.610	2.616	1.590	2.584	032
WLAN 6E 802.11ax(160M) U-NII-8	Tx2	Top Edge	2	207	6985	10.00	9.99	100.23%	1.05	1.55	1.630	2.649	1.610	2.616	033

Vendor 1

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Tx1	Top Edge	2	15	6025	9.50	9.49	100.23%	1.05	1.55	0.234	0.380	0.218	0.354	080
	Tx1	Top Edge	2	47	6185	9.50	9.48	100.46%	1.05	1.55	0.341	0.555	0.304	0.495	081
WLAN 6E 802.11ax(160M) U-NII-6	Tx1	Top Edge	2	111	6505	10.00	9.99	100.23%	1.05	1.55	0.434	0.705	0.408	0.663	082
WLAN 6E 802.11ax(160M) U-NII-7	Tx1	Top Edge	2	175	6825	9.50	9.49	100.23%	1.05	1.55	0.626	1.017	0.552	0.897	083
WLAN 6E 802.11ax(160M) U-NII-8	Tx1	Top Edge	2	207	6985	10.00	9.99	100.23%	1.05	1.55	0.512	0.832	0.455	0.739	084
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Tx2	Top Edge	2	15	6025	9.50	9.49	100.23%	1.05	1.55	0.613	0.996	0.509	0.827	085
	Tx2	Top Edge	2	79	6345	9.50	9.48	100.46%	1.05	1.55	0.800	1.303	0.723	1.178	086
WLAN 6E 802.11ax(160M) U-NII-6	Tx2	Top Edge	2	111	6505	10.00	9.99	100.23%	1.05	1.55	0.529	0.860	0.482	0.783	087
WLAN 6E 802.11ax(160M) U-NII-7	Tx2	Top Edge	2	143	6665	9.50	9.49	100.23%	1.05	1.55	0.745	1.211	0.667	1.084	088
WLAN 6E 802.11ax(160M) U-NII-8	Tx2	Top Edge	2	207	6985	10.00	9.99	100.23%	1.05	1.55	1.810	2.941	1.730	2.811	089

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 Tx1 + WLAN 2.4GHz Tx2 + BT Tx1
WLAN 5GHz Tx1 + WLAN 5GHz Tx2 + BT Tx1
WLAN 6GHz Tx1 + WLAN 6GHz Tx2 + BT Tx1

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9.2 Estimated SAR calculation

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

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

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

9.3 SPLSR evaluation and analysis

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

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

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

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

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

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Simultaneous Transmission Combination Vendor 2

Exposure Position		Reported SAR							Scenario 1	Scenario 2	Scenario 3
		2	3	4	5	6	8	9	2+3+6	4+5+6	6+8+9
		2.4GHz WLAN Tx1	2.4GHz WLAN Tx2	5GHz WLAN Tx1	5GHz WLAN Tx2	Bluetooth Tx1	6GHz WLAN Tx1	6GHz WLAN Tx2	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Back Surface	0	0.131	0.042	0.078	0.079	0.094	0.034	0.025	0.267	0.251	0.153
Top Edge	0	0.427	0.316	0.293	0.295	0.299	0.126	0.074	1.042	0.887	0.499
Right Edge	0	0.005	0.001	0.001	0.018	0.001	0.010	0.015	0.007	0.020	0.026
Left Edge	0	0.017	0.001	0.001	0.001	0.011	0.013	0.006	0.029	0.013	0.030

Vendor 1

Exposure Position		Reported SAR							Scenario 1	Scenario 2	Scenario 3
		2	3	4	5	6	8	9	2+3+6	4+5+6	6+8+9
		2.4GHz WLAN Tx1	2.4GHz WLAN Tx2	5GHz WLAN Tx1	5GHz WLAN Tx2	Bluetooth Tx1	6GHz WLAN Tx1	6GHz WLAN Tx2	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Back Surface	0	0.106	0.070	0.133	0.087	0.088	0.082	0.010	0.264	0.308	0.180
Top Edge	0	0.282	0.550	0.426	0.320	0.290	0.431	0.103	1.122	1.036	0.824
Right Edge	0	0.005	0.015	0.001	0.019	0.001	0.013	0.017	0.021	0.021	0.031
Left Edge	0	0.013	0.001	0.001	0.001	0.009	0.016	0.009	0.023	0.011	0.034

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	1751	Mar/13/2024	Mar/12/2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7823	Jul/31/2024	Jul/30/2025
SPEAG	System Validation Dipole	D2450V2	727	Apr/22/2024	Apr/21/2025
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	1070	Aug/16/2024	Aug/15/2025
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/21/2024	Feb/20/2025
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/21/2024	May/20/2025
Agilent	Dual-directional coupler	772D	MY52180142	Oct/30/2024	Oct/29/2025
Agilent	Dual-directional coupler	778D	MY52180302	Nov/06/2024	Nov/05/2025
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 Sensor	NRP18S	101973	Feb/27/2024	Feb/26/2025
R&S	Power Sensor	NRP18S	101974	Nov/11/2024	Nov/10/2025
R&S	Power Meter	NRX	105651	Nov/11/2024	Nov/10/2025
SPEAG	Software	DASY 6 V16.0.2.136	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 52 V52.10.4.152 7	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 mmWave V2.4.2.62	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
LKM	Digital thermometer	DTM3000	EC14010603	Nov/11/2024	Nov/10/2025
TECEP	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	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.66%	N	1	1	0.64	0.43	0.42%	0.28%	M
Liquid Conductivity (mea.)	1.39%	N	1	1	0.6	0.49	0.83%	0.68%	M
Combined standard uncertainty		RSS					11.75%	11.73%	
Expan uncertainty (95% confidence interval), K=2							23.51%	23.46%	

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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
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy , Axial</i>	3.50%	R	√ 3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√ 3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√ 3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√ 3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√ 3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√ 3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√ 3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√ 3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√ 3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√ 3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√ 3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√ 3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√ 3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√ 3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√ 3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√ 3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√ 3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.50%	N	1	1	0.64	0.43	0.32%	0.22%	M
Liquid Conductivity (mea.)	1.75%	N	1	1	0.6	0.49	1.05%	0.86%	M
Combined standard uncertainty		RSS					11.47%	11.44%	
Expart uncertainty (95% confidence interval), K=2							22.94%	22.88%	

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

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

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

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

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12 SAR MEASUREMENT RESULTS

Date: 2024/12/15

ID: 001

Report No. :TESA2411000781ES

WLAN 802.11b_Body_Top Edge_CH 1_0mm_Tx1

Communication System: WLAN; Frequency: 2412 MHz; Duty cycle= 1:1.073

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.74$ S/m; $\epsilon_r = 39.181$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.29, 6.66, 6.76) @ 2412 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.529 W/kg

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

Reference Value = 11.24 V/m; Power Drift = 0.13 dB

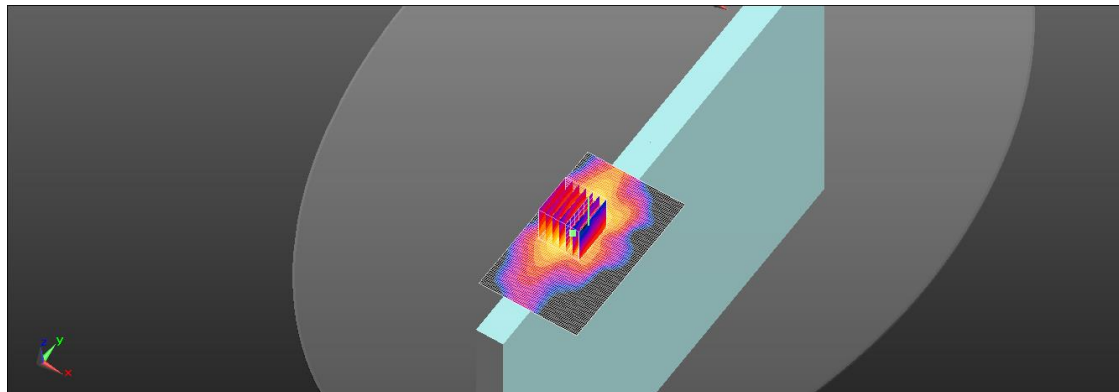
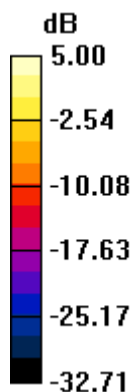
Peak SAR (extrapolated) = 0.953 W/kg

SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.175 W/kg

Smallest distance from peaks to all points 3 dB below = 6 mm

Ratio of SAR at M2 to SAR at M1 = 39.5%

Maximum value of SAR (measured) = 0.602 W/kg



0 dB = 0.602 W/kg = -2.20 dBW/kg

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Date: 2024/12/15

ID: 002

Report No. :TESA2411000781ES

Bluetooth(GFSK)_Body_Top Edge_CH 78_0mm_Tx1

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.297

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.8 \text{ S/m}$; $\epsilon_r = 38.966$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.29, 6.66, 6.76) @ 2480 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.332 W/kg

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

Reference Value = 6.054 V/m; Power Drift = -0.17 dB

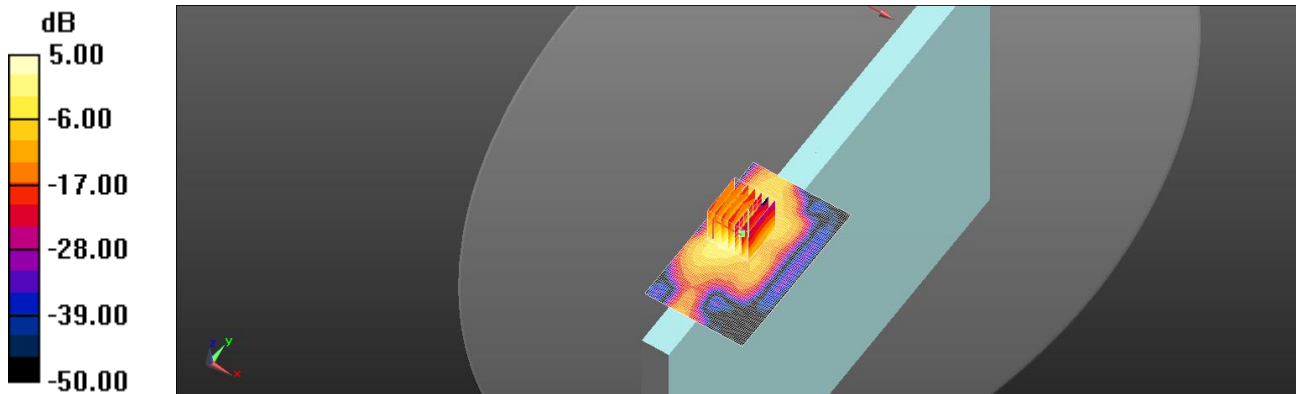
Peak SAR (extrapolated) = 0.614 W/kg

SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.098 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 38.4%

Maximum value of SAR (measured) = 0.341 W/kg



0 dB = 0.341 W/kg = -4.67 dBW/kg

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Date: 2024/12/16

ID: 003

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.2G_Body_Top Edge_CH 42_0mm_Tx1

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

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.714 \text{ S/m}$; $\epsilon_r = 35.88$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.57, 5.08, 5.16) @ 5210 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.592 W/kg

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

Reference Value = 6.295 V/m; Power Drift = 0.12 dB

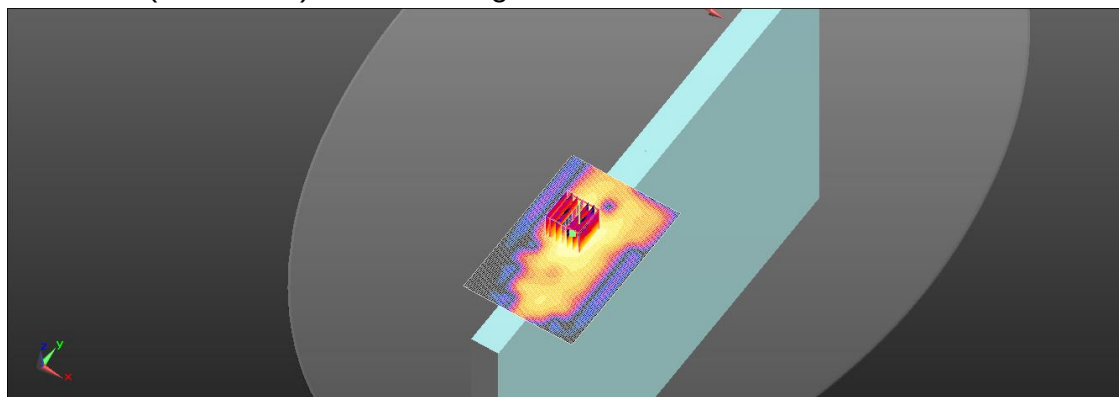
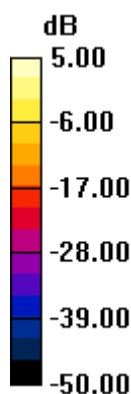
Peak SAR (extrapolated) = 0.971 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.101 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 62%

Maximum value of SAR (measured) = 0.511 W/kg



0 dB = 0.511 W/kg = -2.92 dBW/kg

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Date: 2024/12/16

ID: 004

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.3G_Body_Top Edge_CH 58_0mm_Tx1

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

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.791 \text{ S/m}$; $\epsilon_r = 35.712$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.57, 5.08, 5.16) @ 5290 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.346 W/kg

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

Reference Value = 9.251 V/m; Power Drift = 0.19 dB

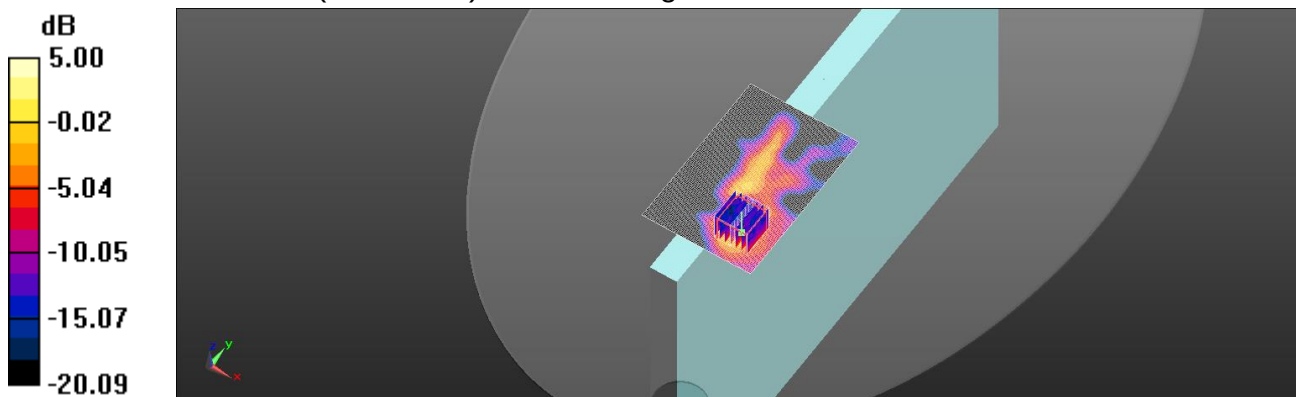
Peak SAR (extrapolated) = 0.690 W/kg

SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.063 W/kg

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

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

Maximum value of SAR (measured) = 0.428 W/kg



0 dB = 0.428 W/kg = -3.69 dBW/kg

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Date: 2024/12/17

ID: 005

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 106_0mm_Tx1

Communication System: WLAN; Frequency: 5530 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.05 \text{ S/m}$; $\epsilon_r = 35.47$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.05, 4.61, 4.69) @ 5530 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.546 W/kg

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

Reference Value = 10.03 V/m; Power Drift = 0.16 dB

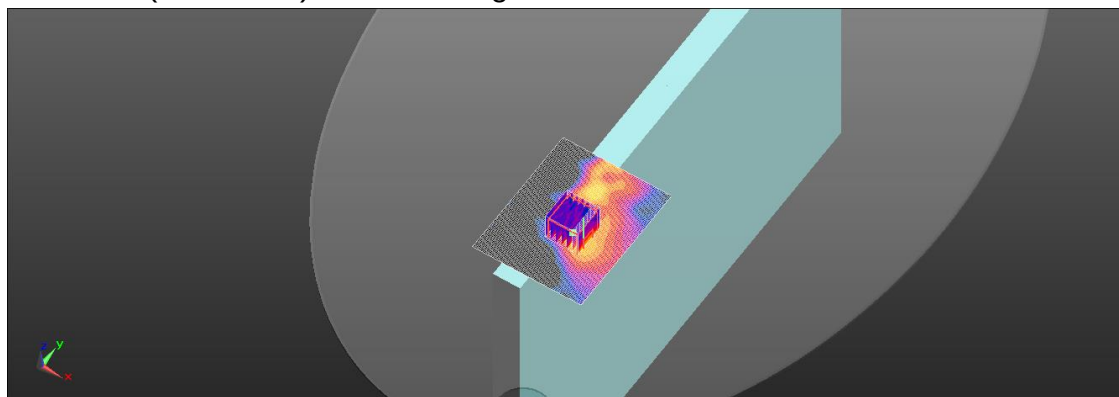
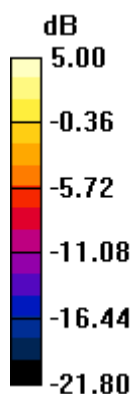
Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.205 W/kg; SAR(10 g) = 0.066 W/kg

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

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

Maximum value of SAR (measured) = 0.520 W/kg



0 dB = 0.520 W/kg = -2.84 dBW/kg

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Date: 2024/12/17

ID: 006

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Tx1

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

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.301 \text{ S/m}$; $\epsilon_r = 35.204$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.19, 4.74, 4.81) @ 5775 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.594 W/kg

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

Reference Value = 4.419 V/m; Power Drift = 0.11 dB

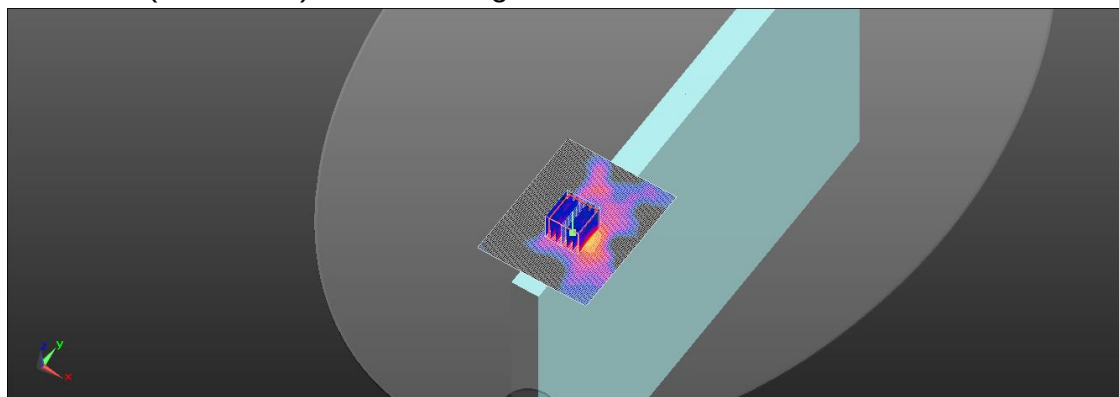
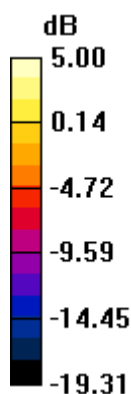
Peak SAR (extrapolated) = 0.955 W/kg

SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.058 W/kg

Smallest distance from peaks to all points 3 dB below = 4 mm

Ratio of SAR at M2 to SAR at M1 = 43.9%

Maximum value of SAR (measured) = 0.536 W/kg



0 dB = 0.536 W/kg = -2.71 dBW/kg

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Date: 2024/12/18

ID: 007

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.9G_Body_Top Edge_CH 171_0mm_Tx1

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

Medium parameters used: $f = 5855 \text{ MHz}$; $\sigma = 5.402 \text{ S/m}$; $\epsilon_r = 35.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(4.99, 4.55, 4.62) @ 5855 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 5.233 V/m; Power Drift = -0.11 dB

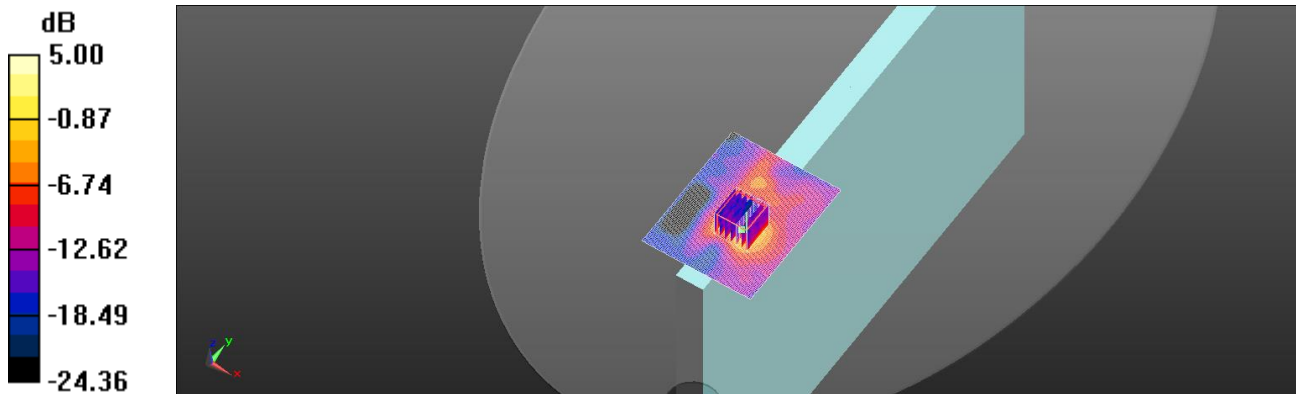
Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.088 W/kg

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

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

Maximum value of SAR (measured) = 0.686 W/kg



0 dB = 0.686 W/kg = -1.64 dBW/kg

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Date: 2024/12/15

ID: 008

Report No. :TESA2411000781ES

WLAN 802.11b_Body_Top Edge_CH 11_0mm_Tx2

Communication System: WLAN; Frequency: 2462 MHz; Duty cycle= 1:1.073

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.794 \text{ S/m}$; $\epsilon_r = 39.016$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.29, 6.66, 6.76) @ 2462 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.492 W/kg

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

Reference Value = 10.68 V/m; Power Drift = -0.09 dB

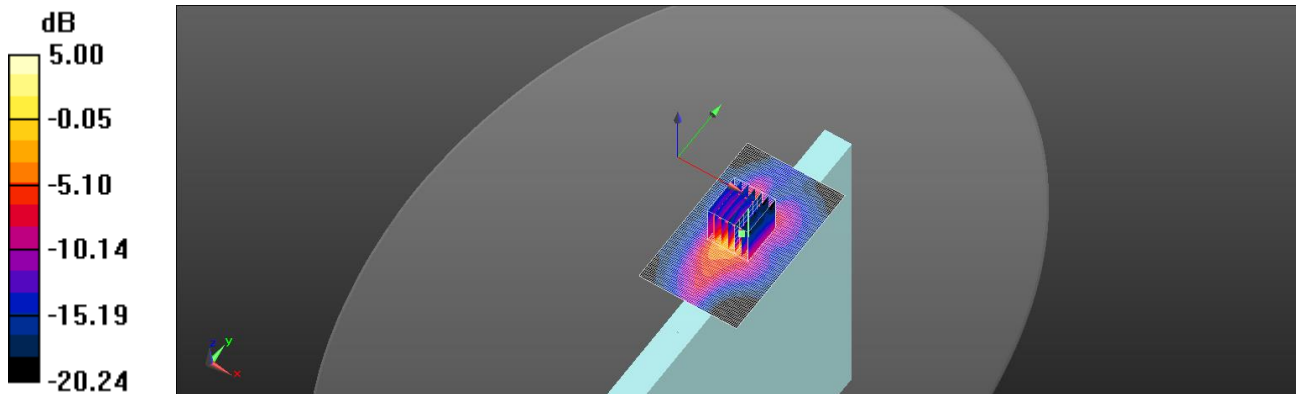
Peak SAR (extrapolated) = 0.872 W/kg

SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.131 W/kg

Smallest distance from peaks to all points 3 dB below = 6 mm

Ratio of SAR at M2 to SAR at M1 = 37.1%

Maximum value of SAR (measured) = 0.527 W/kg



0 dB = 0.527 W/kg = -2.78 dBW/kg

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Date: 2024/12/16

ID: 009

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.2G_Body_Top Edge_CH 42_0mm_Tx2

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

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.714 \text{ S/m}$; $\epsilon_r = 35.88$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.57, 5.08, 5.16) @ 5210 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 8.089 V/m; Power Drift = -0.03 dB

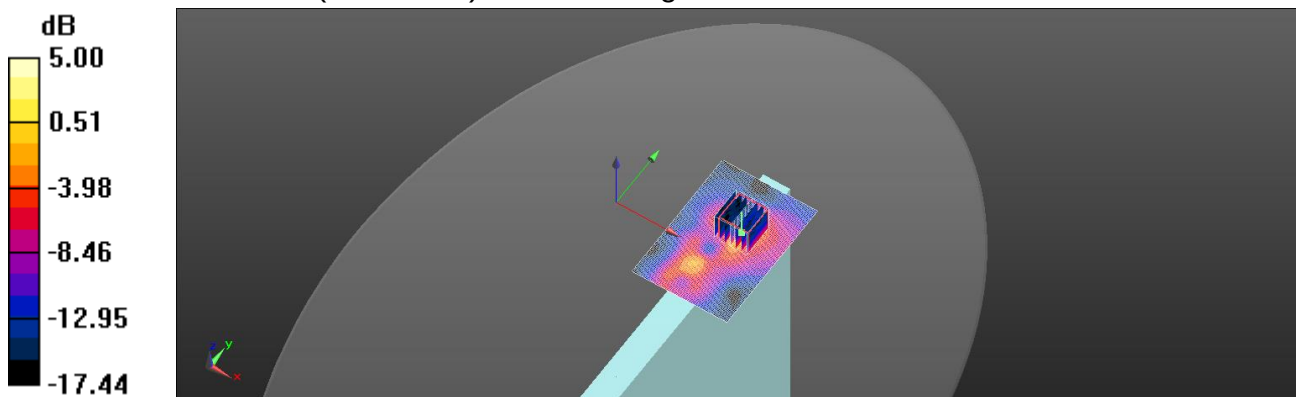
Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.105 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 61.3%

Maximum value of SAR (measured) = 0.648 W/kg



0 dB = 0.648 W/kg = -1.88 dBW/kg

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Date: 2024/12/16

ID: 010

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.3G_Body_Top Edge_CH 58_0mm_Tx2

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

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.791 \text{ S/m}$; $\epsilon_r = 35.712$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.57, 5.08, 5.16) @ 5290 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.638 W/kg

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

Reference Value = 8.434 V/m; Power Drift = -0.08 dB

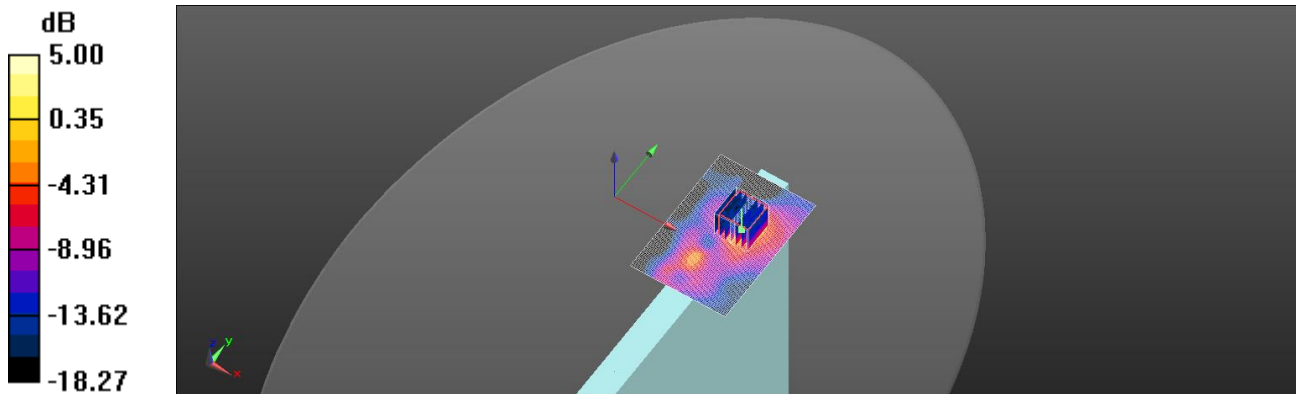
Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.091 W/kg

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

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

Maximum value of SAR (measured) = 0.616 W/kg



0 dB = 0.616 W/kg = -2.10 dBW/kg

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Date: 2024/12/17

ID: 011

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 138_0mm_Tx2

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

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.218 \text{ S/m}$; $\epsilon_r = 35.322$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.19, 4.74, 4.81) @ 5690 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.643 W/kg

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

Reference Value = 7.582 V/m; Power Drift = 0.03 dB

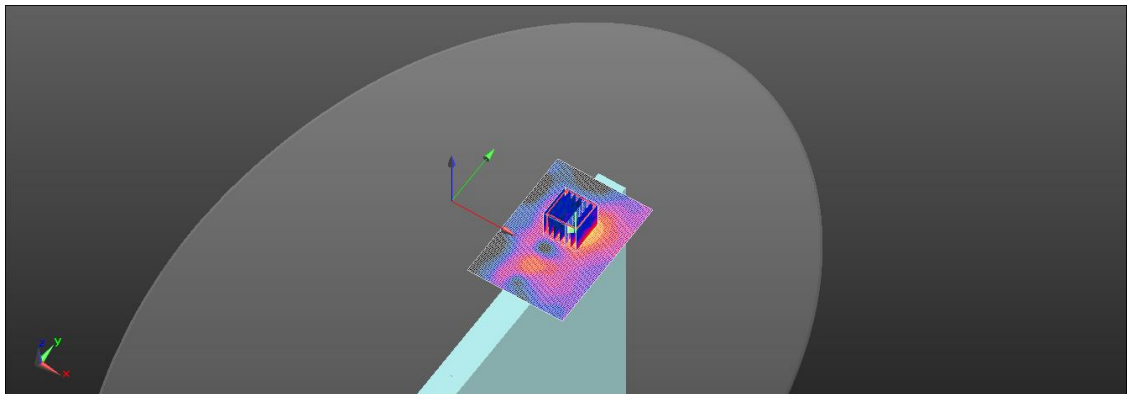
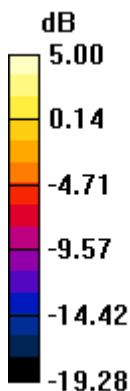
Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.078 W/kg

Smallest distance from peaks to all points 3 dB below = 4 mm

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

Maximum value of SAR (measured) = 0.617 W/kg



0 dB = 0.617 W/kg = -2.10 dBW/kg

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Date: 2024/12/17

ID: 012

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Tx2

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

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.301 \text{ S/m}$; $\epsilon_r = 35.204$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.19, 4.74, 4.81) @ 5775 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.559 W/kg

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

Reference Value = 6.564 V/m; Power Drift = 0.09 dB

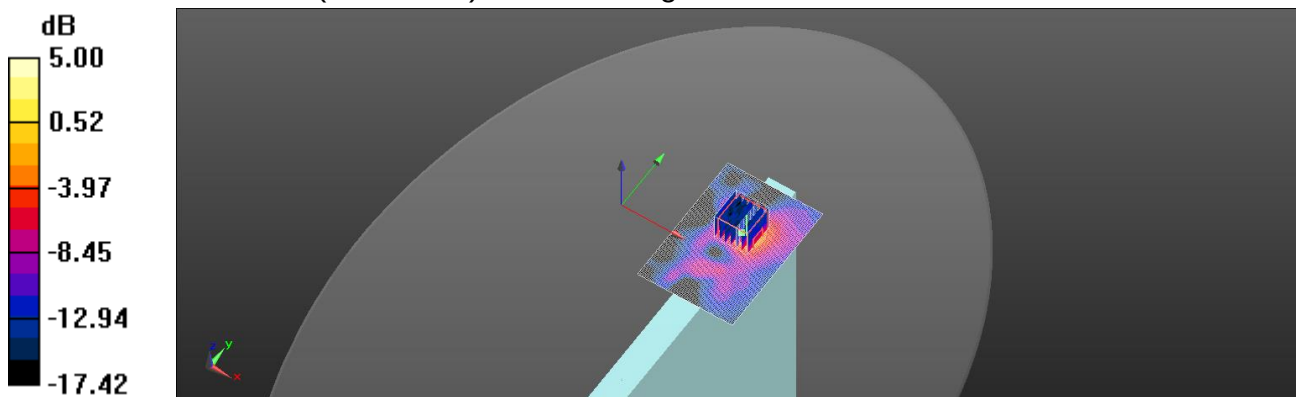
Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.078 W/kg

Smallest distance from peaks to all points 3 dB below = 4 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 0.534 W/kg



0 dB = 0.534 W/kg = -2.73 dBW/kg

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Date: 2024/12/18

ID: 013

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.9G_Body_Top Edge_CH 171_0mm_Tx2

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

Medium parameters used: $f = 5855 \text{ MHz}$; $\sigma = 5.402 \text{ S/m}$; $\epsilon_r = 35.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(4.99, 4.55, 4.62) @ 5855 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.644 W/kg

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

Reference Value = 7.348 V/m; Power Drift = 0.16 dB

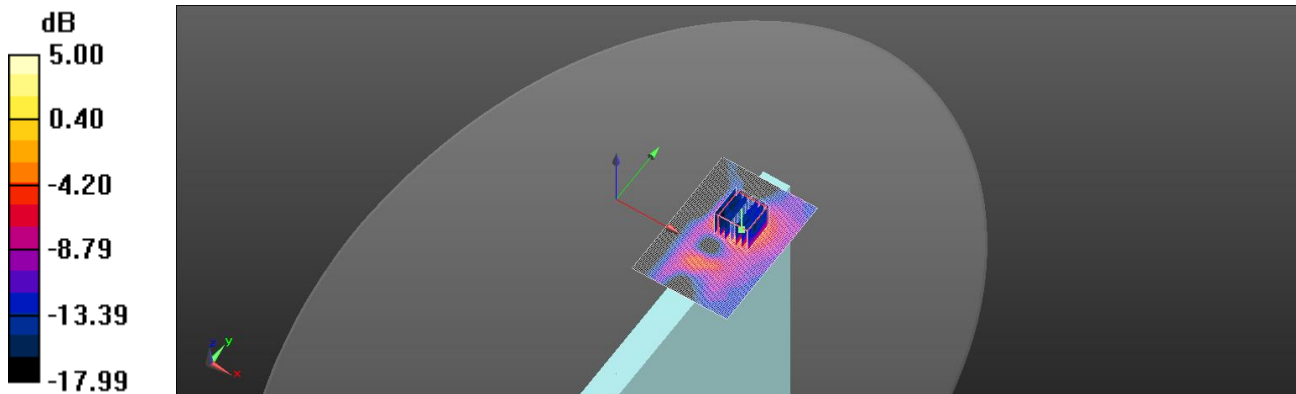
Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.087 W/kg

Smallest distance from peaks to all points 3 dB below = 5 mm

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

Maximum value of SAR (measured) = 0.622 W/kg



0 dB = 0.622 W/kg = -2.06 dBW/kg

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ID: 014

Report No. :TESA2411000781ES

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Top Edge_CH 15_0mm_Tx1

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6025.0, 15	5.34	5.571	34.986

Hardware Setup

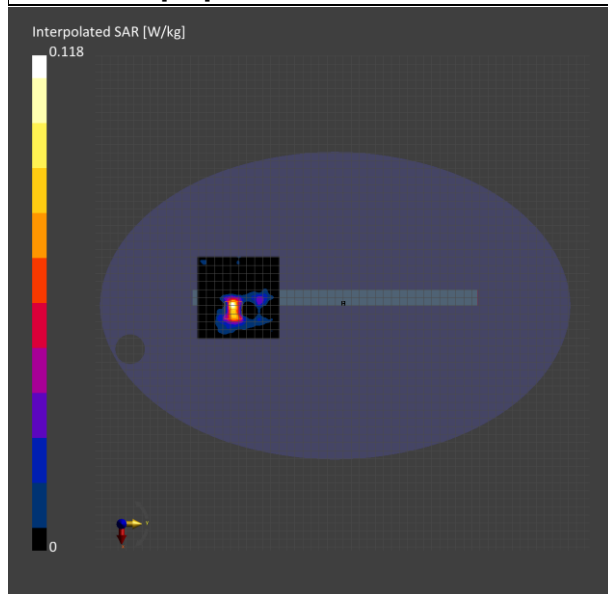
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.1 x 3.1 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.075	0.099
psSAR8g [W/kg]	0.027	0.029
psSAR10g [W/kg]	0.024	0.026
psPDab (4.0cm2, sq) [W/m2]		0.582
Power Drift [dB]	0.09	-0.06
M2/M1 [%]		63.8
Dist 3dB Peak [mm]		3.2



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ID: 015

Report No. :TESA2411000781ES

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Top Edge_CH 47_0mm_Tx1

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6185.0, 47	5.34	5.735	34.808

Hardware Setup

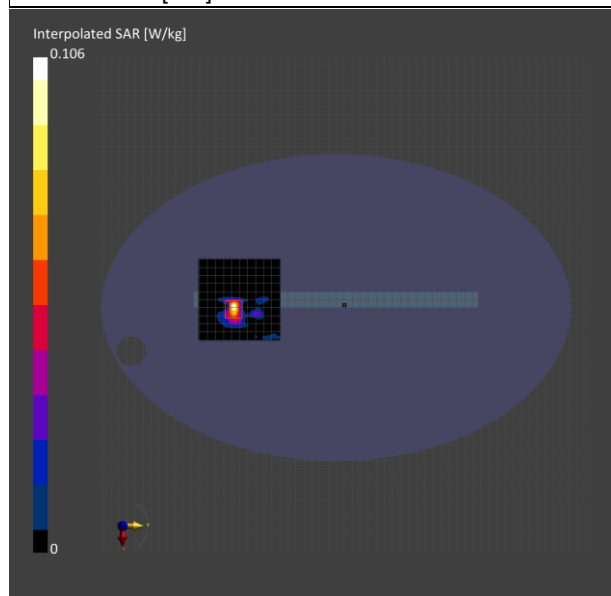
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.1 x 3.1 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.067	0.069
psSAR8g [W/kg]	0.023	0.021
psSAR10g [W/kg]	0.020	0.019
psPDab (4.0cm2, sq) [W/m2]		0.427
Power Drift [dB]	0.15	0.11
M2/M1 [%]		63.2
Dist 3dB Peak [mm]		3.1



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ID: 016

Report No. :TESA2411000781ES

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Top Edge_CH 111_0mm_Tx1

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6505.0, 111	5.34	6.086	34.316

Hardware Setup

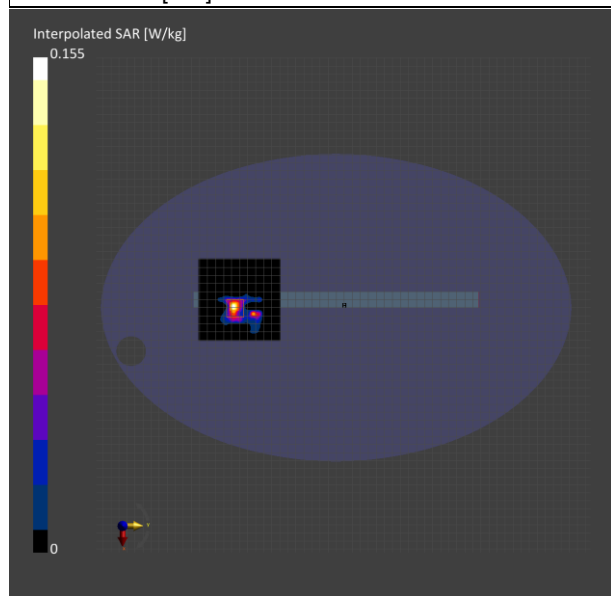
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.1 x 3.1 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.098	0.093
psSAR8g [W/kg]	0.032	0.029
psSAR10g [W/kg]	0.028	0.025
psPDab (4.0cm2, sq) [W/m2]		0.573
Power Drift [dB]	0.11	0.09
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		3.7



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ID: 017

Report No. :TESA2411000781ES

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Top Edge_CH 175_0mm_Tx1

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6825.0, 175	5.34	6.435	33.884

Hardware Setup

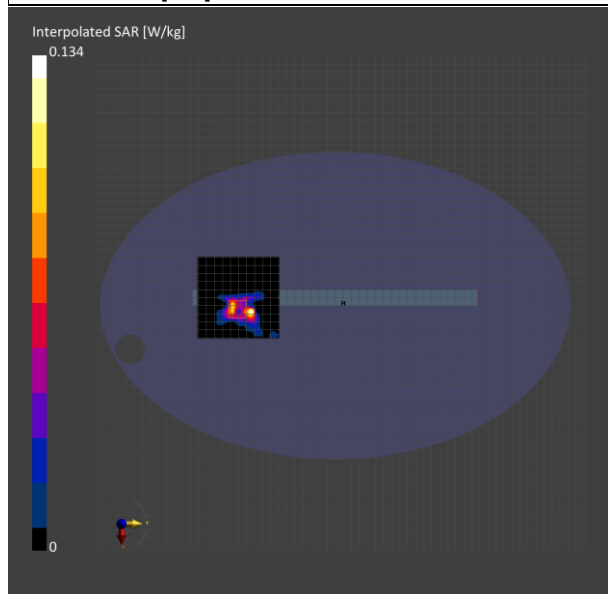
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.2 x 3.2 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.086	0.083
psSAR8g [W/kg]	0.028	0.024
psSAR10g [W/kg]	0.025	0.020
psPDab (4.0cm2, sq) [W/m2]		0.475
Power Drift [dB]	0.03	0.08
M2/M1 [%]		58.1
Dist 3dB Peak [mm]		5.2



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ID: 018

Report No. :TESA2411000781ES

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Top Edge_CH 207_0mm_Tx1

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6985.0, 207	5.47	6.617	33.823

Hardware Setup

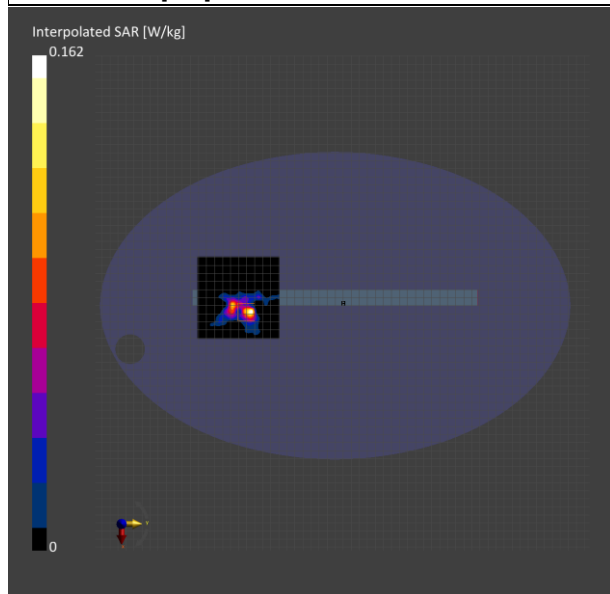
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.110	0.120
psSAR8g [W/kg]	0.034	0.036
psSAR10g [W/kg]	0.029	0.030
psPDab (4.0cm2, sq) [W/m2]		0.711
Power Drift [dB]	0.07	-0.03
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		4.1



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ID: 019

Report No. :TESA2411000781ES

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Top Edge_CH 15_0mm_Tx2

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6025.0, 15	5.34	5.571	34.986

Hardware Setup

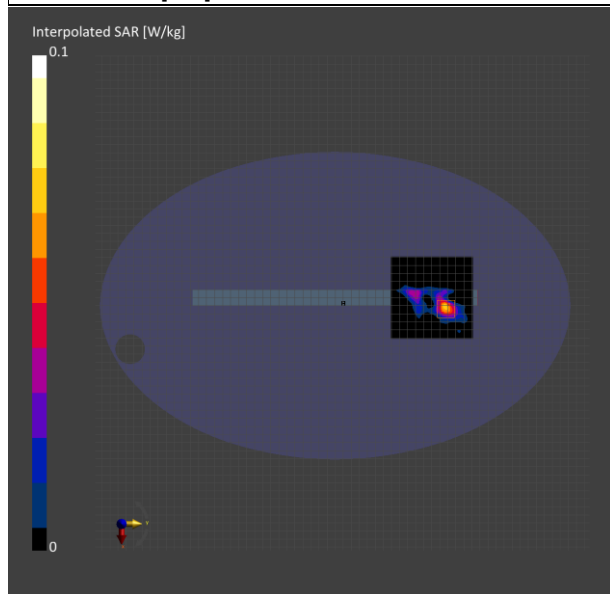
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.053	0.057
psSAR8g [W/kg]	0.019	0.020
psSAR10g [W/kg]	0.017	0.017
psPDab (4.0cm2, sq) [W/m2]		0.391
Power Drift [dB]	0.19	0.09
M2/M1 [%]		62.0
Dist 3dB Peak [mm]		4.8



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ID: 020

Report No. :TESA2411000781ES

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Top Edge_CH 79_0mm_Tx2

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6345.0, 79	5.34	5.915	34.608

Hardware Setup

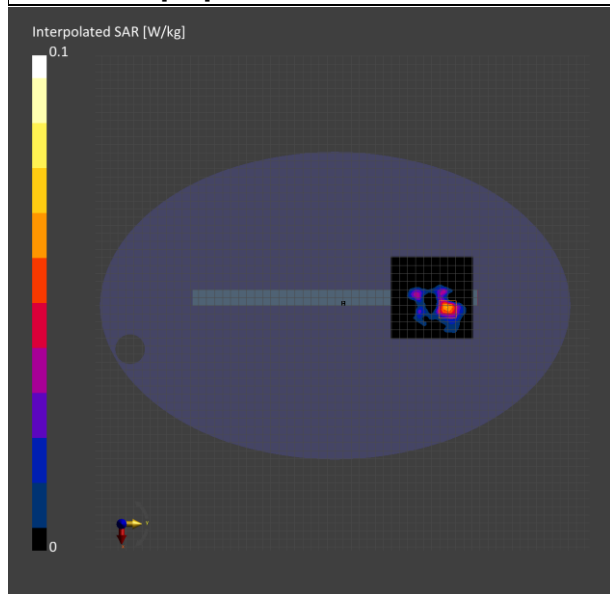
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.051	0.070
psSAR8g [W/kg]	0.020	0.026
psSAR10g [W/kg]	0.017	0.023
psPDab (4.0cm2, sq) [W/m2]		0.518
Power Drift [dB]	0.05	0.13
M2/M1 [%]		56.8
Dist 3dB Peak [mm]		5.0



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ID: 021

Report No. :TESA2411000781ES

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Top Edge_CH 111_0mm_Tx2

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6505.0, 111	5.34	6.086	34.316

Hardware Setup

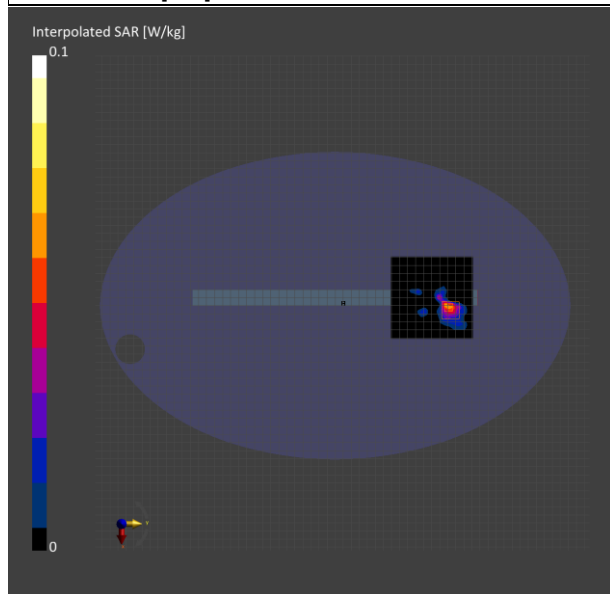
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.048	0.060
psSAR8g [W/kg]	0.017	0.021
psSAR10g [W/kg]	0.015	0.019
psPDab (4.0cm2, sq) [W/m2]		0.423
Power Drift [dB]	0.05	0.13
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		4.0



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ID: 022

Report No. :TESA2411000781ES

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Top Edge_CH 143_0mm_Tx2

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6665.0, 143	5.34	6.262	34.149

Hardware Setup

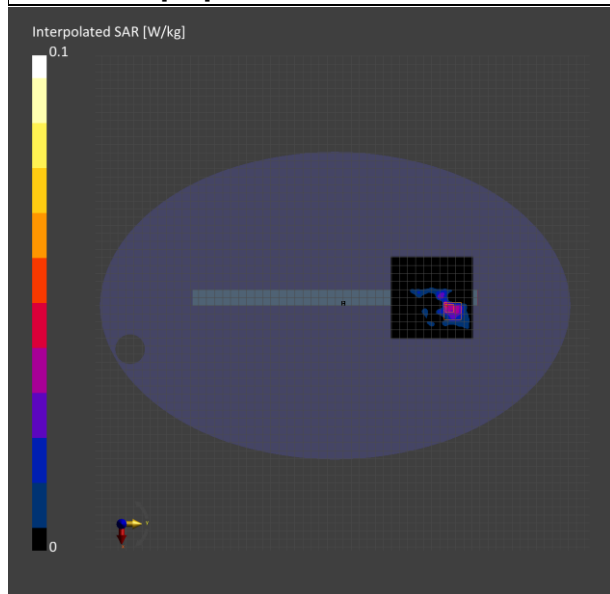
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.033	0.045
psSAR8g [W/kg]	0.013	0.016
psSAR10g [W/kg]	0.012	0.015
psPDab (4.0cm2, sq) [W/m2]		0.323
Power Drift [dB]	0.09	0.07
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		3.4



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ID: 023

Report No. :TESA2411000781ES

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Top Edge_CH 207_0mm_Tx2

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6985.0, 207	5.47	6.617	33.823

Hardware Setup

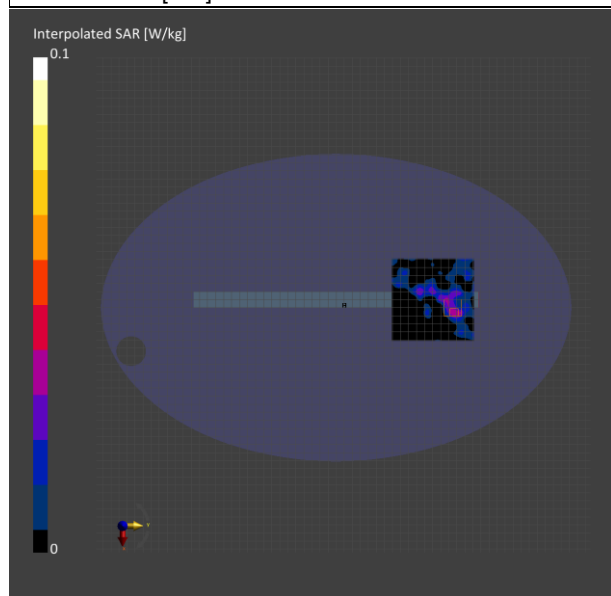
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.032	0.030
psSAR8g [W/kg]	0.013	0.010
psSAR10g [W/kg]	0.012	0.009
psPDab (4.0cm2, sq) [W/m2]		0.206
Power Drift [dB]	-0.05	0.11
M2/M1 [%]		71.2
Dist 3dB Peak [mm]		5.8



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Date: 2024/12/15

ID: 057

Report No. :TESA2411000781ES

WLAN 802.11b_Body_Top Edge_CH 1_0mm_Tx1

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.073

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.74$ S/m; $\epsilon_r = 39.181$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.29, 6.66, 6.76) @ 2412 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.379 W/kg

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

Reference Value = 7.264 V/m; Power Drift = -0.14 dB

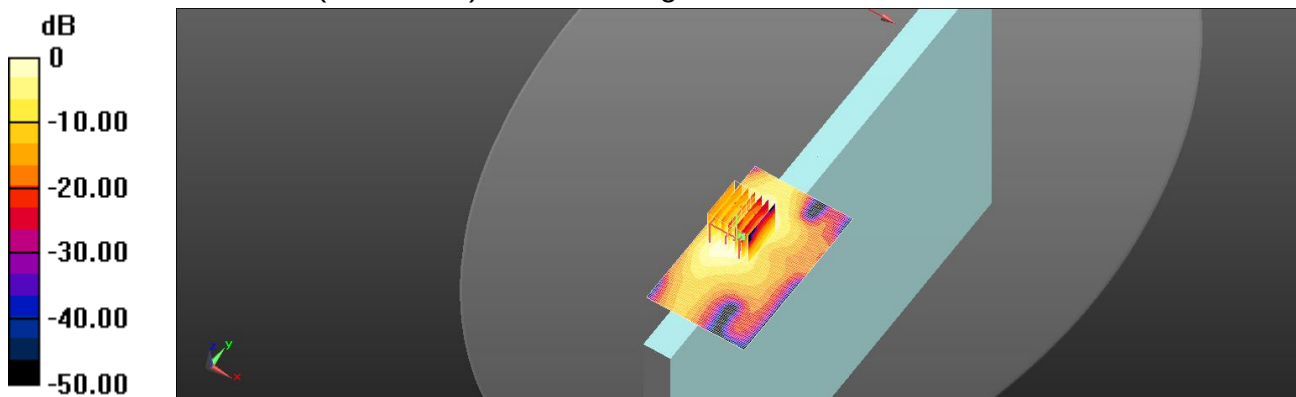
Peak SAR (extrapolated) = 0.658 W/kg

SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.116 W/kg

Smallest distance from peaks to all points 3 dB below = 4 mm

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

Maximum value of SAR (measured) = 0.378 W/kg



0 dB = 0.378 W/kg = -4.22 dBW/kg

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Date: 2024/12/15

ID: 058

Report No. :TESA2411000781ES

Bluetooth(GFSK)_Body_Top Edge_CH 78_0mm_Tx1

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.297

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.8 \text{ S/m}$; $\epsilon_r = 38.966$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.29, 6.66, 6.76) @ 2480 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.321 W/kg

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

Reference Value = 6.054 V/m; Power Drift = -0.17 dB

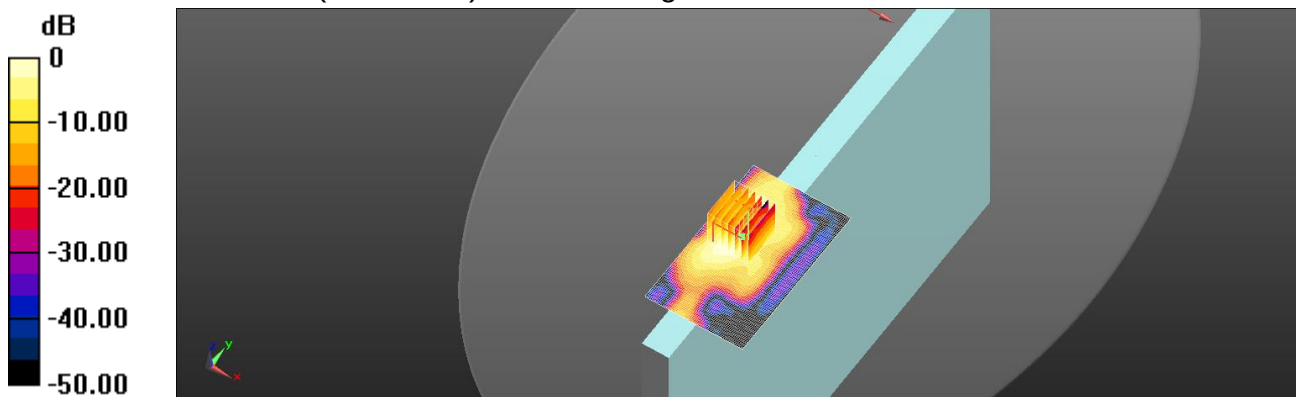
Peak SAR (extrapolated) = 0.593 W/kg

SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.094 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 37.9%

Maximum value of SAR (measured) = 0.330 W/kg



0 dB = 0.330 W/kg = -4.82 dBW/kg

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Member of SGS Group

Date: 2024/12/16

ID: 059

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.2G_Body_Top Edge_CH 42_0mm_Tx1

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

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.714 \text{ S/m}$; $\epsilon_r = 35.88$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.57, 5.08, 5.16) @ 5210 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.603 W/kg

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

Reference Value = 6.835 V/m; Power Drift = -0.04 dB

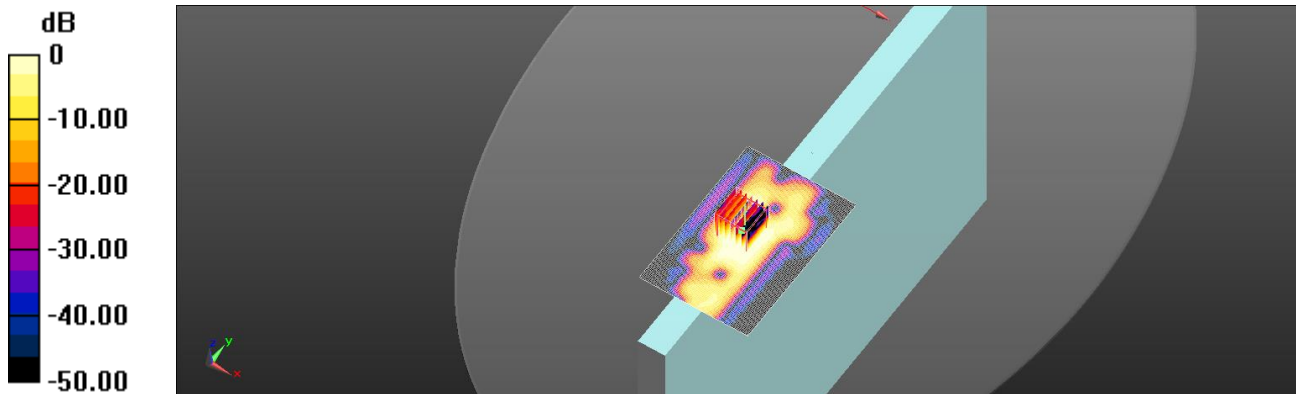
Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.104 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 62%

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



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

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Date: 2024/12/16

ID: 060

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.3G_Body_Top Edge_CH 58_0mm_Tx1

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

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.791$ S/m; $\epsilon_r = 35.712$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.57, 5.08, 5.16) @ 5290 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.729 W/kg

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

Reference Value = 7.898 V/m; Power Drift = -0.07 dB

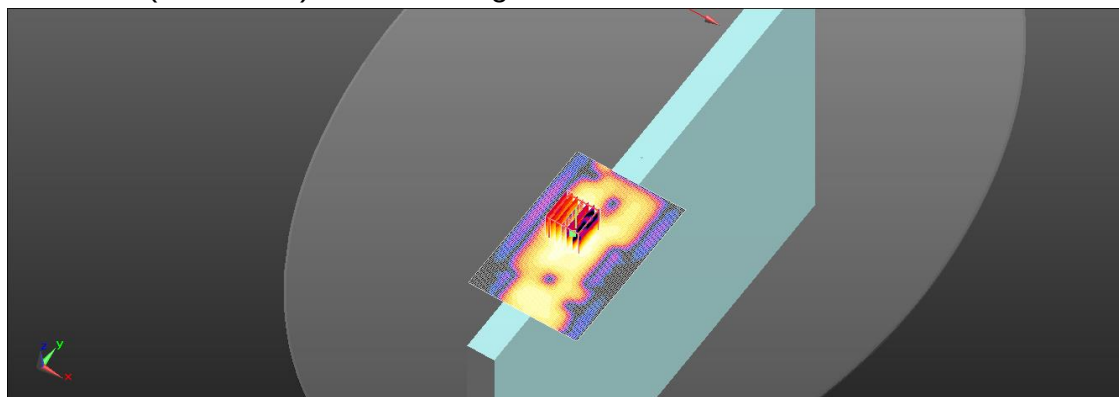
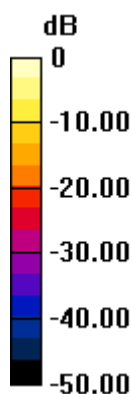
Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.103 W/kg

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

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

Maximum value of SAR (measured) = 0.682 W/kg



0 dB = 0.682 W/kg = -1.66 dBW/kg

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Date: 2024/12/17

ID: 061

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 106_0mm_Tx1

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.05 \text{ S/m}$; $\epsilon_r = 35.47$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.05, 4.61, 4.69) @ 5530 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.985 W/kg

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

Reference Value = 6.594 V/m; Power Drift = 0.12 dB

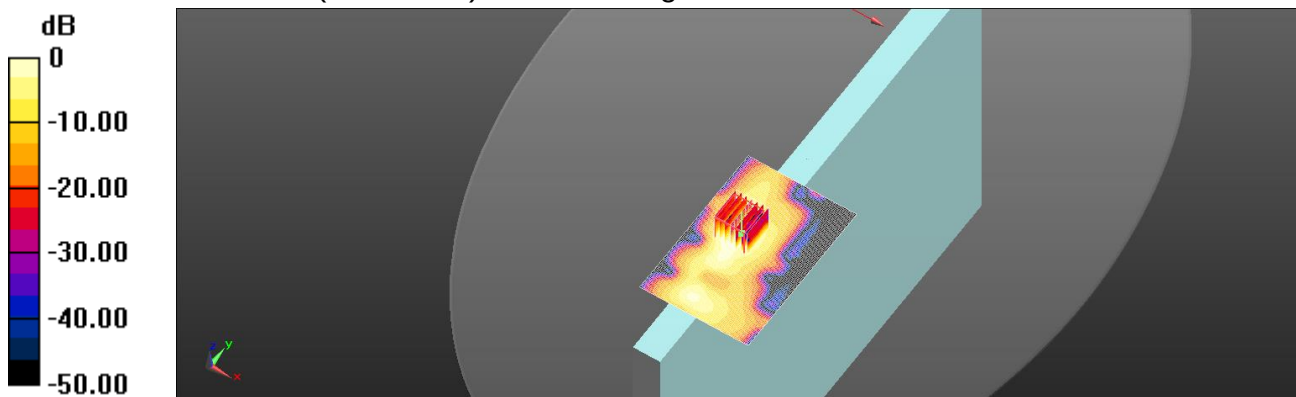
Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.129 W/kg

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

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

Maximum value of SAR (measured) = 0.958 W/kg



0 dB = 0.958 W/kg = -0.19 dBW/kg

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Date: 2024/12/17

ID: 062

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Tx1

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

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.301 \text{ S/m}$; $\epsilon_r = 35.204$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.19, 4.74, 4.81) @ 5775 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.802 W/kg

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

Reference Value = 6.170 V/m; Power Drift = -0.18 dB

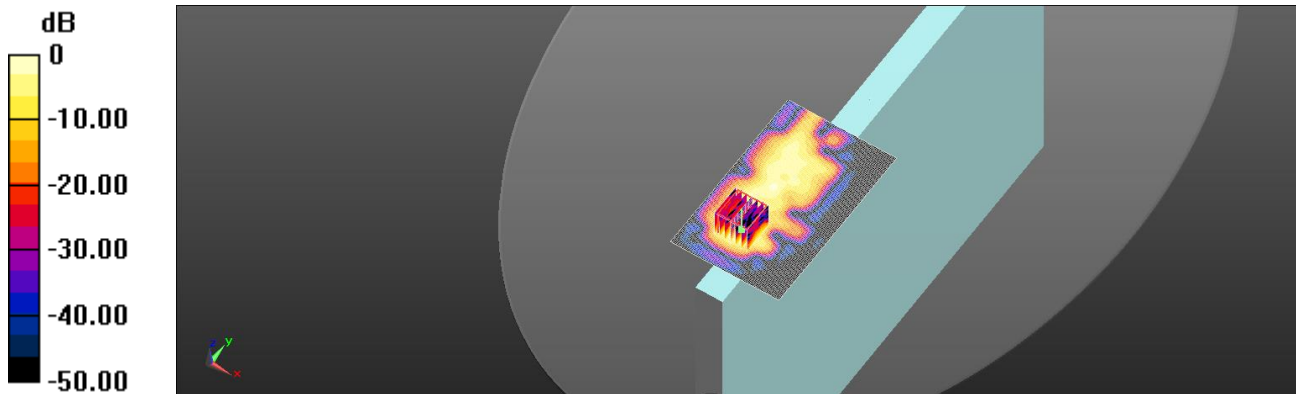
Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.067 W/kg

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

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

Maximum value of SAR (measured) = 0.783 W/kg



0 dB = 0.783 W/kg = -1.06 dBW/kg

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Date: 2024/12/18

ID: 063

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.9G_Body_Top Edge_CH 171_0mm_Tx1

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

Medium parameters used: $f = 5855$ MHz; $\sigma = 5.402$ S/m; $\epsilon_r = 35.142$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(4.99, 4.55, 4.62) @ 5855 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.03 W/kg

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

Reference Value = 9.486 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.104 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 48.3%

Maximum value of SAR (measured) = 0.917 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.486 V/m; Power Drift = -0.15 dB

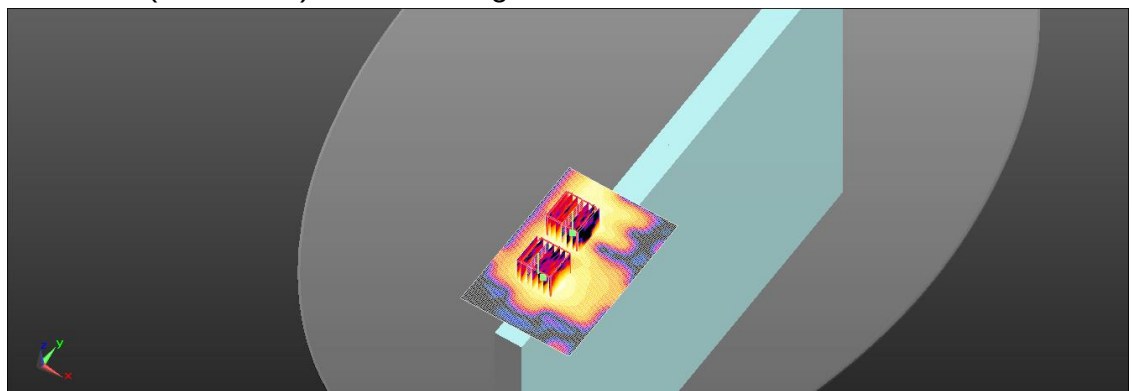
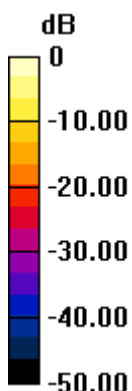
Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.075 W/kg

Smallest distance from peaks to all points 3 dB below = 3.2 mm

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

Maximum value of SAR (measured) = 0.732 W/kg



0 dB = 0.732 W/kg = -1.35 dBW/kg

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Date: 2024/12/15

ID: 064

Report No. :TESA2411000781ES

WLAN 802.11b_Body_Top Edge_CH 11_0mm_Tx2

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.073

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.794$ S/m; $\epsilon_r = 39.016$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.29, 6.66, 6.76) @ 2462 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.07 W/kg

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

Reference Value = 19.01 V/m; Power Drift = -0.05 dB

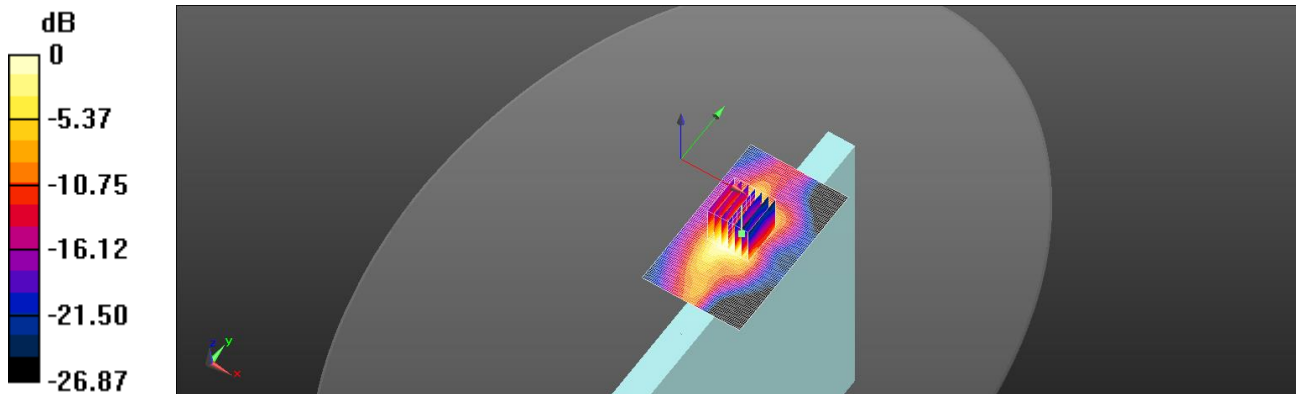
Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.511 W/kg; SAR(10 g) = 0.227 W/kg

Smallest distance from peaks to all points 3 dB below = 5 mm

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

Maximum value of SAR (measured) = 0.865 W/kg



0 dB = 0.865 W/kg = -0.63 dBW/kg

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Date: 2024/12/16

ID: 065

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.2G_Body_Top Edge_CH 42_0mm_Tx2

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

Medium parameters used: $f = 5210$ MHz; $\sigma = 4.714$ S/m; $\epsilon_r = 35.88$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.57, 5.08, 5.16) @ 5210 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.718 W/kg

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

Reference Value = 8.089 V/m; Power Drift = -0.03 dB

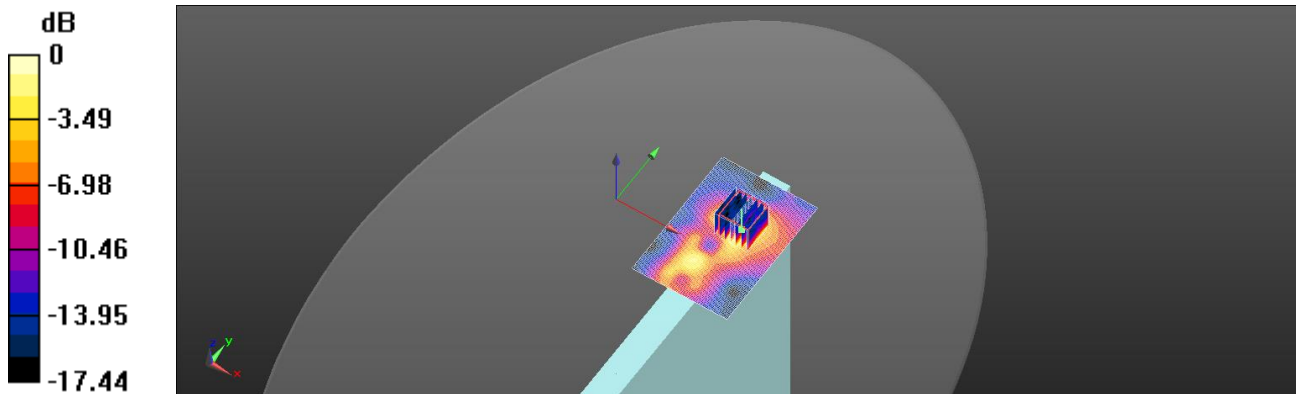
Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.114 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 61.3%

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



0 dB = 0.704 W/kg = -1.52 dBW/kg

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Date: 2024/12/16

ID: 066

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.3G_Body_Top Edge_CH 58_0mm_Tx2

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

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.791$ S/m; $\epsilon_r = 35.712$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.57, 5.08, 5.16) @ 5290 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.638 W/kg

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

Reference Value = 8.434 V/m; Power Drift = -0.08 dB

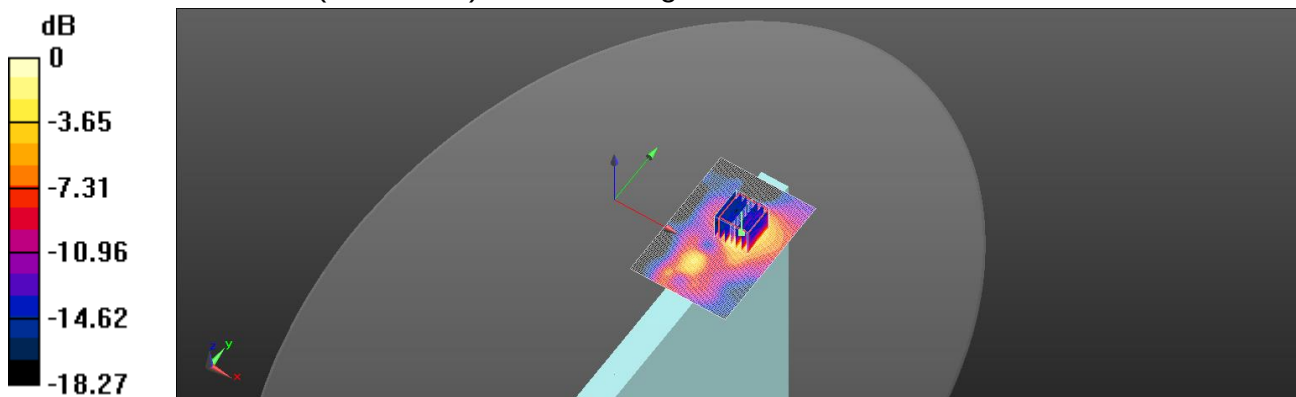
Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.091 W/kg

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

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

Maximum value of SAR (measured) = 0.616 W/kg



0 dB = 0.616 W/kg = -2.11 dBW/kg

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Date: 2024/12/17

ID: 067

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.6G_Body_Top Edge_CH 138_0mm_Tx2

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

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.218$ S/m; $\epsilon_r = 35.322$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.19, 4.74, 4.81) @ 5690 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.712 W/kg

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

Reference Value = 7.582 V/m; Power Drift = 0.03 dB

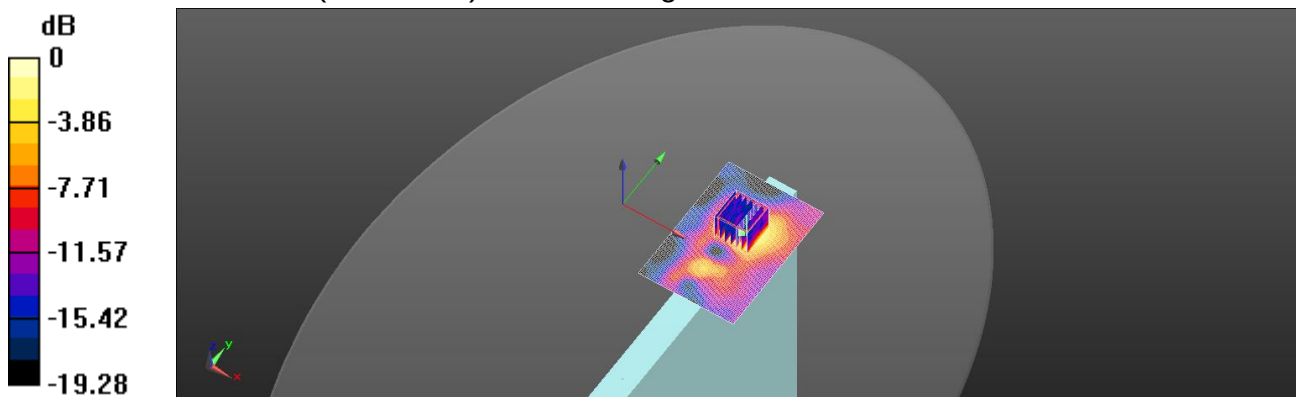
Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.087 W/kg

Smallest distance from peaks to all points 3 dB below = 4 mm

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

Maximum value of SAR (measured) = 0.683 W/kg



0 dB = 0.683 W/kg = -1.66 dBW/kg

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Date: 2024/12/17

ID: 068

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Tx2

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

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.301 \text{ S/m}$; $\epsilon_r = 35.204$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.19, 4.74, 4.81) @ 5775 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.616 W/kg

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

Reference Value = 6.564 V/m; Power Drift = 0.19 dB

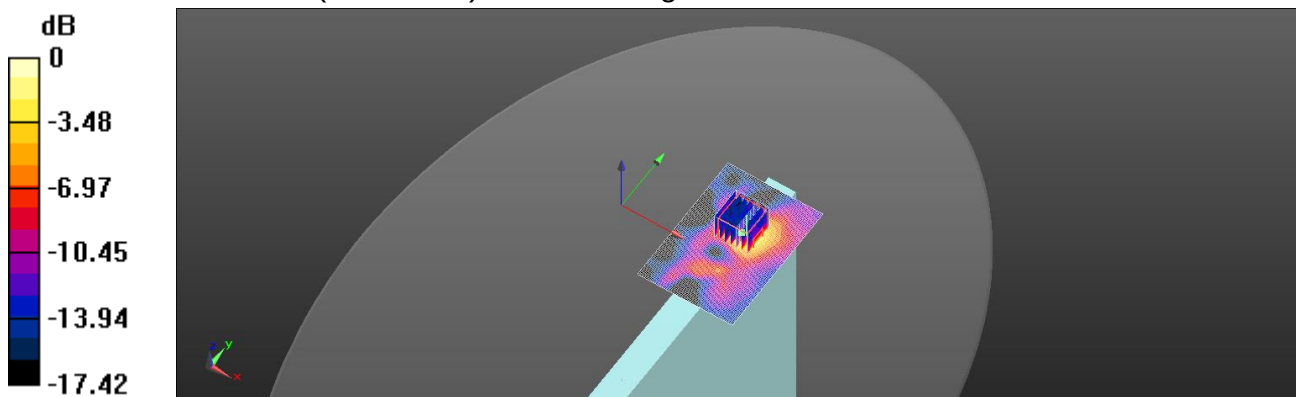
Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.086 W/kg

Smallest distance from peaks to all points 3 dB below = 4 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 0.588 W/kg



0 dB = 0.588 W/kg = -2.31 dBW/kg

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Date: 2024/12/18

ID: 069

Report No. :TESA2411000781ES

WLAN 802.11ac(80M) 5.9G_Body_Top Edge_CH 171_0mm_Tx2

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

Medium parameters used: $f = 5855 \text{ MHz}$; $\sigma = 5.402 \text{ S/m}$; $\epsilon_r = 35.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(4.99, 4.55, 4.62) @ 5855 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.701 W/kg

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

Reference Value = 7.348 V/m; Power Drift = 0.16 dB

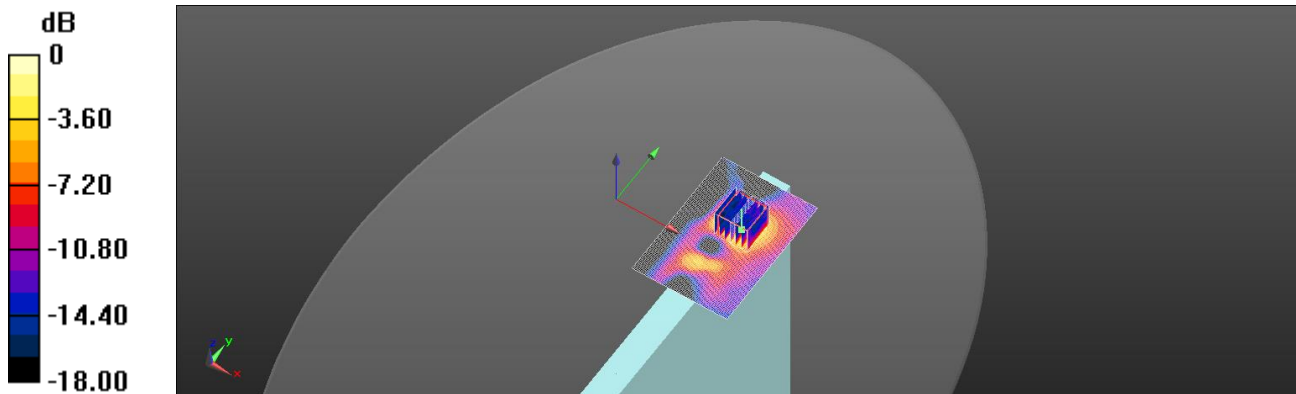
Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.094 W/kg

Smallest distance from peaks to all points 3 dB below = 4 mm

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

Maximum value of SAR (measured) = 0.677 W/kg



0 dB = 0.677 W/kg = -1.69 dBW/kg

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ID: 070

Report No. :TESA2411000781ES

Measurement Report U-NII-5 6.2GHz 802.11ax(160M)_Body_Top Edge_CH 15_0mm_Tx1

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6025.0, 15	5.34	5.571	34.986

Hardware Setup

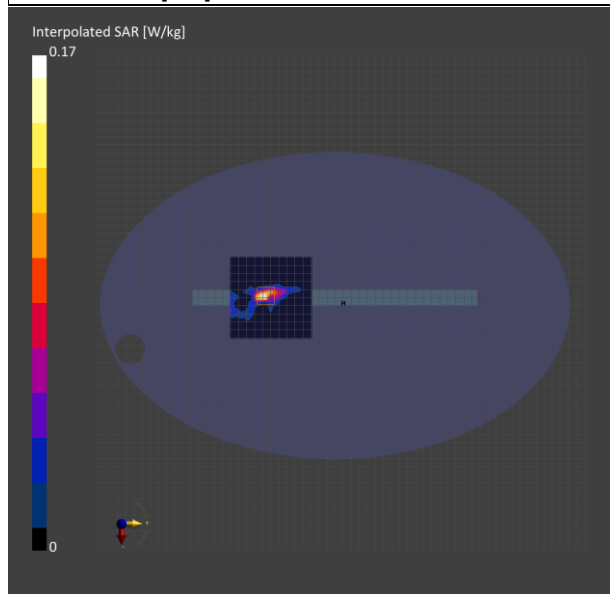
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.111	0.119
psSAR8g [W/kg]	0.036	0.039
psSAR10g [W/kg]	0.031	0.033
psPDab (4.0cm2, sq) [W/m2]		0.771
Power Drift [dB]	-0.04	-0.11
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		6.4



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ID: 071

Report No. :TESA2411000781ES

Measurement Report U-NII-5 6.2GHz 802.11ax(160M)_Body_Top Edge_CH 47_0mm_Tx1

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6185.0, 47	5.34	5.735	34.808

Hardware Setup

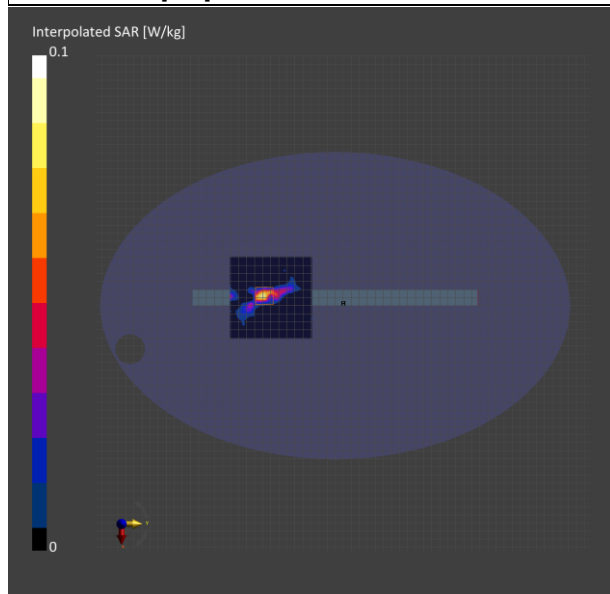
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.061	0.065
psSAR8g [W/kg]	0.020	0.021
psSAR10g [W/kg]	0.017	0.018
psPDab (4.0cm2, sq) [W/m2]		0.419
Power Drift [dB]	-0.09	-0.04
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		7.2



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ID: 072

Report No. :TESA2411000781ES

Measurement Report U-NII-6 6.5GHz 802.11ax(160M)_Body_Top Edge_CH 111_0mm_Tx1

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6505.0, 111	5.34	6.086	34.316

Hardware Setup

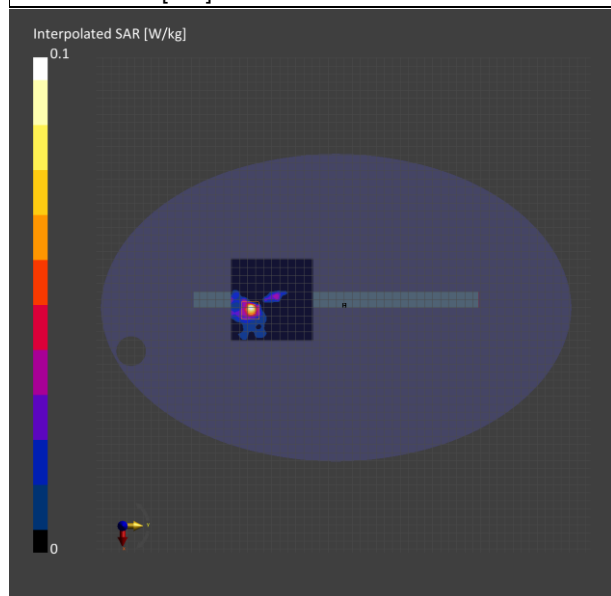
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.065	0.085
psSAR8g [W/kg]	0.021	0.027
psSAR10g [W/kg]	0.018	0.023
psPDab (4.0cm2, sq) [W/m2]		0.530
Power Drift [dB]	-0.16	-0.12
M2/M1 [%]		53.5
Dist 3dB Peak [mm]		6.1



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ID: 073

Report No. :TESA2411000781ES

Measurement Report U-NII-7 6.7GHz 802.11ax(160M)_Body_Top Edge_CH 175_0mm_Tx1

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6825.0, 175	5.34	6.435	33.884

Hardware Setup

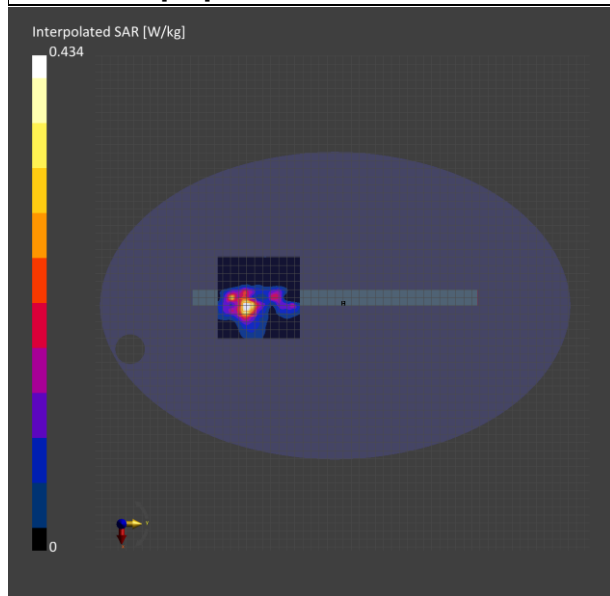
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.351	0.411
psSAR8g [W/kg]	0.134	0.142
psSAR10g [W/kg]	0.119	0.124
psPDab (4.0cm2, sq) [W/m2]		2.85
Power Drift [dB]	-0.09	-0.03
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		7.0



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ID: 074

Report No. :TESA2411000781ES

Measurement Report U-NII-8 7.0GHz 802.11ax(160M)_Body_Top Edge_CH 207_0mm_Tx1

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6985.0, 207	5.47	6.617	33.823

Hardware Setup

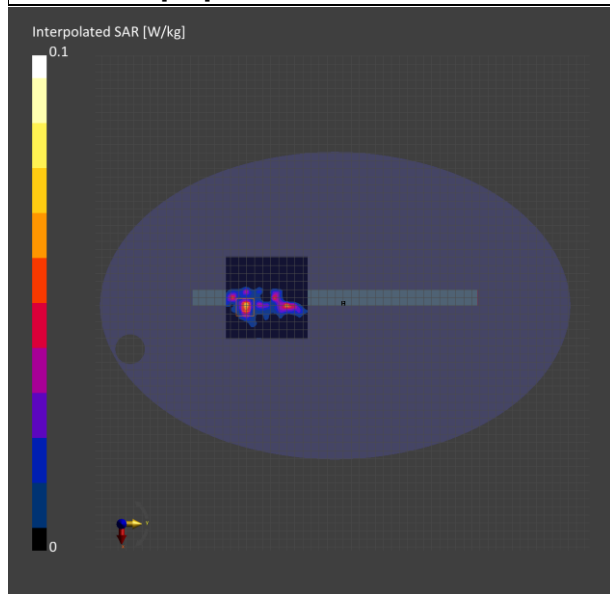
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.051	0.069
psSAR8g [W/kg]	0.016	0.022
psSAR10g [W/kg]	0.014	0.020
psPDab (4.0cm2, sq) [W/m2]		0.448
Power Drift [dB]	-0.14	-0.11
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		6.1



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ID: 075

Report No. :TESA2411000781ES

Measurement Report U-NII-5 6.2GHz 802.11ax(160M)_Body_Top Edge_CH 15_0mm_Tx2

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6025.0, 15	5.34	5.571	34.986

Hardware Setup

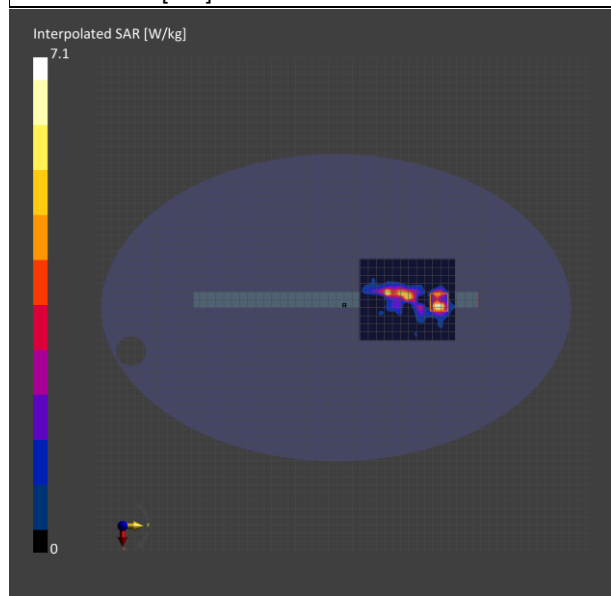
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.064	0.073
psSAR8g [W/kg]	0.022	0.022
psSAR10g [W/kg]	0.019	0.019
psPDab (4.0cm2, sq) [W/m2]		0.436
Power Drift [dB]	-0.09	-0.07
M2/M1 [%]		54.3
Dist 3dB Peak [mm]		7.1



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ID: 076

Report No. :TESA2411000781ES

Measurement Report U-NII-5 6.2GHz 802.11ax(160M)_Body_Top Edge_CH 79_0mm_Tx2

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6345.0, 79	5.34	5.915	34.608

Hardware Setup

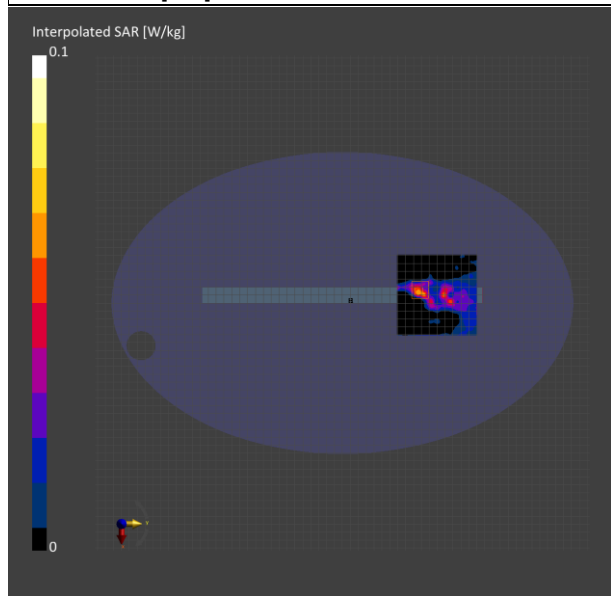
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.048	0.064
psSAR8g [W/kg]	0.018	0.024
psSAR10g [W/kg]	0.015	0.022
psPDab (4.0cm2, sq) [W/m2]		0.476
Power Drift [dB]	-0.07	-0.09
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		6.8



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ID: 077

Report No. :TESA2411000781ES

Measurement Report U-NII-6 6.5GHz 802.11ax(160M)_Body_Top Edge_CH 111_0mm_Tx2

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6505.0, 111	5.34	6.086	34.316

Hardware Setup

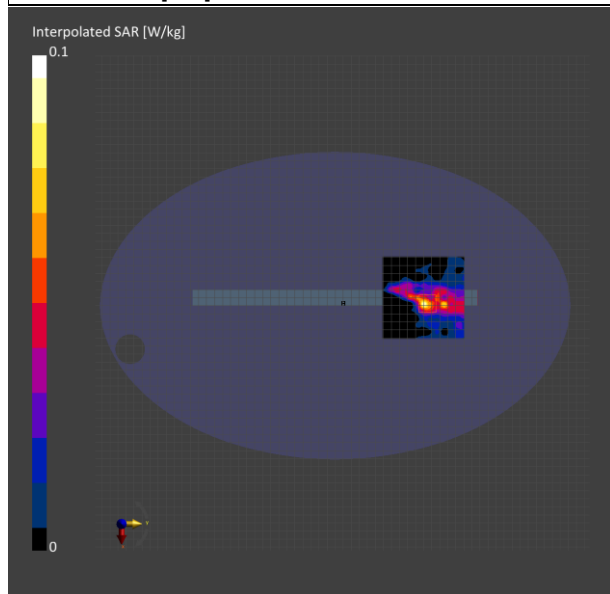
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.063	0.086
psSAR8g [W/kg]	0.024	0.031
psSAR10g [W/kg]	0.022	0.027
psPDab (4.0cm2, sq) [W/m2]		0.613
Power Drift [dB]	-0.08	-0.16
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		6.7



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ID: 078

Report No. :TESA2411000781ES

Measurement Report U-NII-7 6.7GHz 802.11ax(160M)_Body_Top Edge_CH 143_0mm_Tx2

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6665.0, 143	5.34	6.262	34.149

Hardware Setup

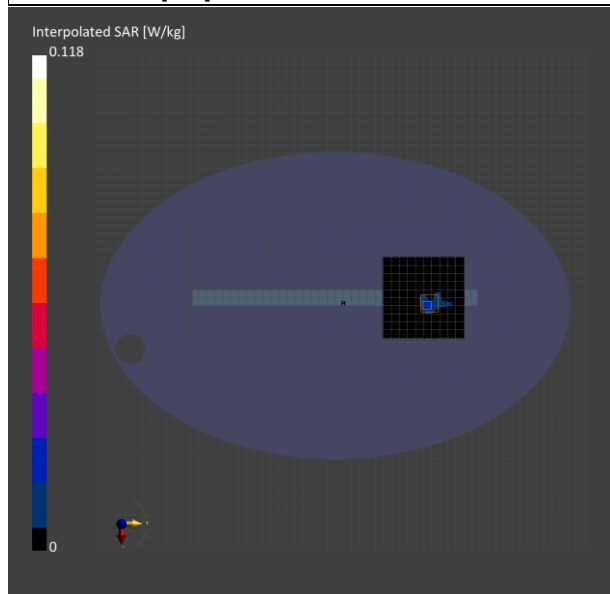
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.084	0.098
psSAR8g [W/kg]	0.030	0.036
psSAR10g [W/kg]	0.027	0.032
psPDab (4.0cm2, sq) [W/m2]		0.724
Power Drift [dB]	-0.07	-0.16
M2/M1 [%]		48.6
Dist 3dB Peak [mm]		5.8



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ID: 079

Report No. :TESA2411000781ES

Measurement Report U-NII-8 7.0GHz 802.11ax(160M)_Body_Top Edge_CH 207_0mm_Tx2

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6985.0, 207	5.47	6.617	33.823

Hardware Setup

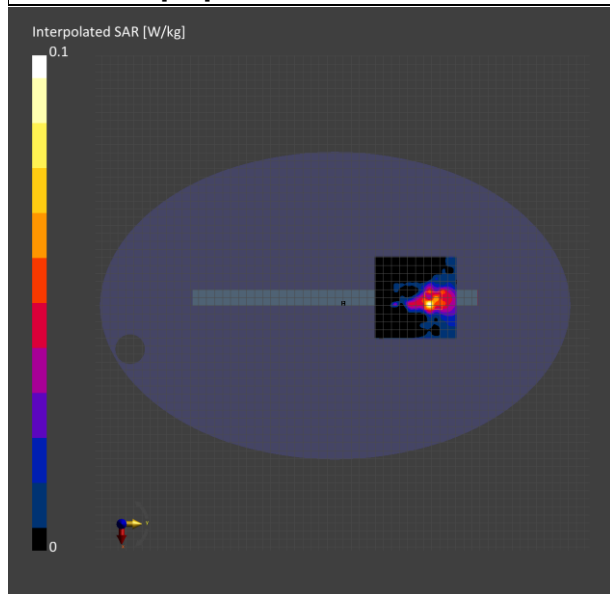
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	0.066	0.070
psSAR8g [W/kg]	0.025	0.025
psSAR10g [W/kg]	0.023	0.022
psPDab (4.0cm2, sq) [W/m2]		0.502
Power Drift [dB]	-0.03	-0.07
M2/M1 [%]		48.4
Dist 3dB Peak [mm]		7.0



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13 PD MEASUREMENT RESULTS

ID: 024

Report No. :TESA2411000781ES

Measurement Report_U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_2mm_Tx1

Exposure Conditions

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

Hardware Setup

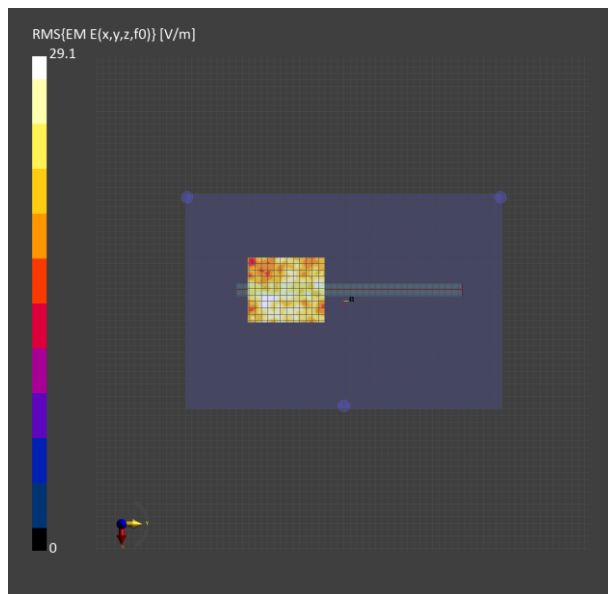
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.61
psPDtot+ [W/m ²]	1.64
psPDmod+ [W/m ²]	1.73
E _{max} [V/m]	29.1
Power Drift [dB]	-0.03



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ID: 025

Report No. :TESA2411000781ES

Measurement Report_U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_2mm_Tx1

Exposure Conditions

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

Hardware Setup

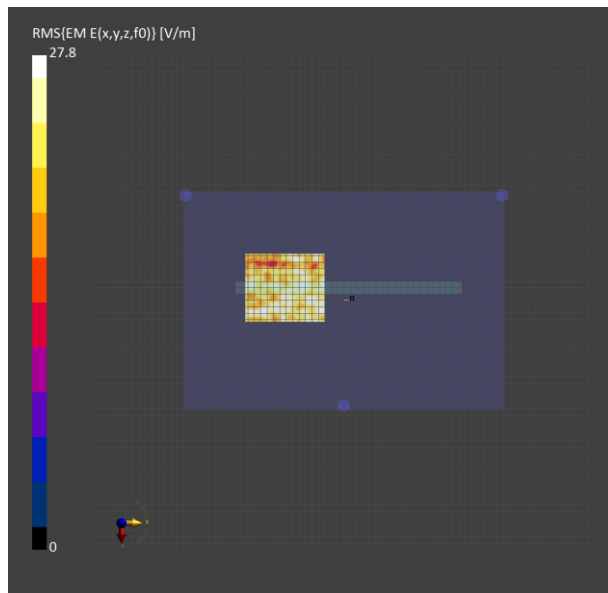
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.50
psPDtot+ [W/m ²]	1.54
psPDmod+ [W/m ²]	1.59
E _{max} [V/m]	27.4
Power Drift [dB]	0.02



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ID: 026

Report No. :TESA2411000781ES

Measurement Report_U-NII-6,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_2mm_Tx1

Exposure Conditions

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

Hardware Setup

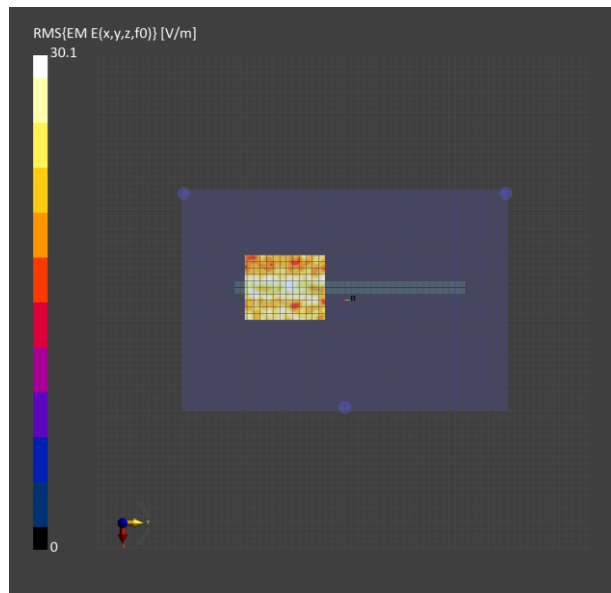
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.86
psPDtot+ [W/m ²]	1.90
psPDmod+ [W/m ²]	1.98
E _{max} [V/m]	30.1
Power Drift [dB]	0.15



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ID: 027

Report No. :TESA2411000781ES

Measurement Report_U-NII-7,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)_2mm_Tx1

Exposure Conditions

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

Hardware Setup

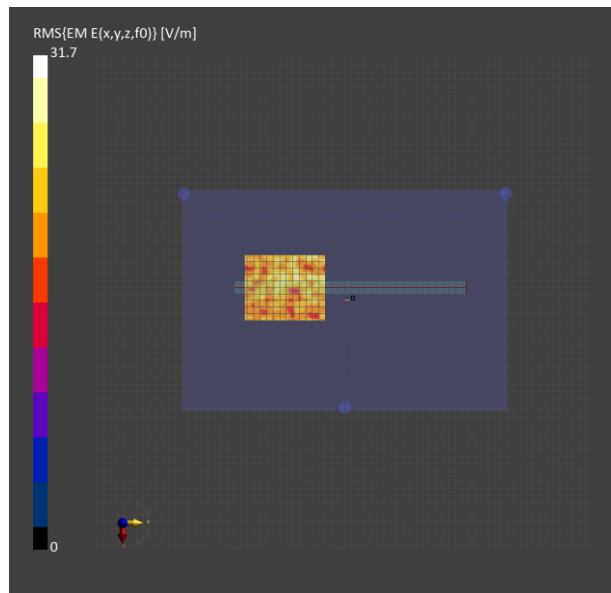
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.54
psPDtot+ [W/m ²]	1.58
psPDmod+ [W/m ²]	1.66
E _{max} [V/m]	28.3
Power Drift [dB]	-0.04



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ID: 028

Report No. :TESA2411000781ES

Measurement Report_U-NII-8,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_2mm_Tx1

Exposure Conditions

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

Hardware Setup

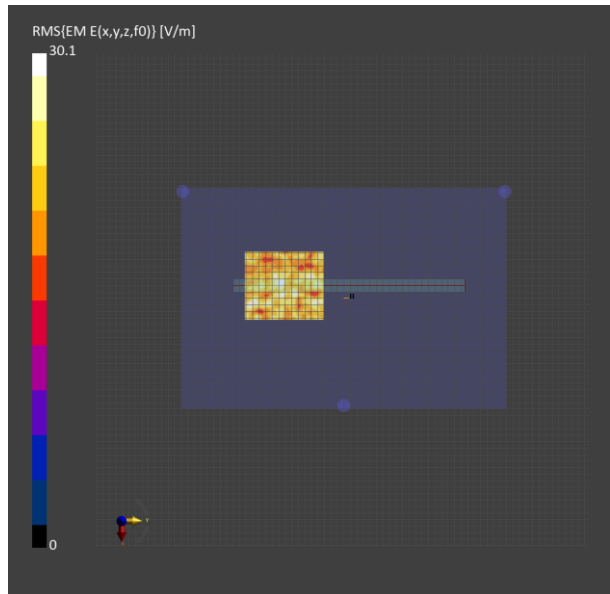
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.56
psPDtot+ [W/m ²]	1.67
psPDmod+ [W/m ²]	1.79
E _{max} [V/m]	30.1
Power Drift [dB]	0.17



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ID: 029

Report No. :TESA2411000781ES

Measurement Report_U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_2mm_Tx2

Exposure Conditions

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

Hardware Setup

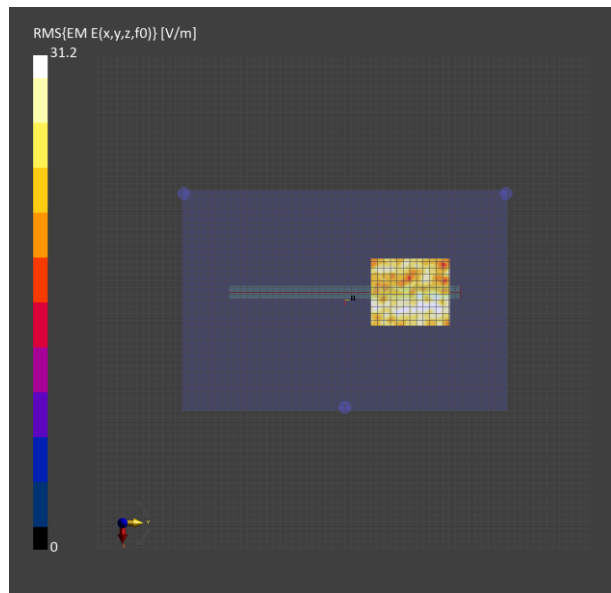
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.92
psPDtot+ [W/m ²]	2.02
psPDmod+ [W/m ²]	2.15
E _{max} [V/m]	31.1
Power Drift [dB]	0.05



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ID: 030

Report No. :TESA2411000781ES

Measurement Report_U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_2mm_Tx2

Exposure Conditions

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

Hardware Setup

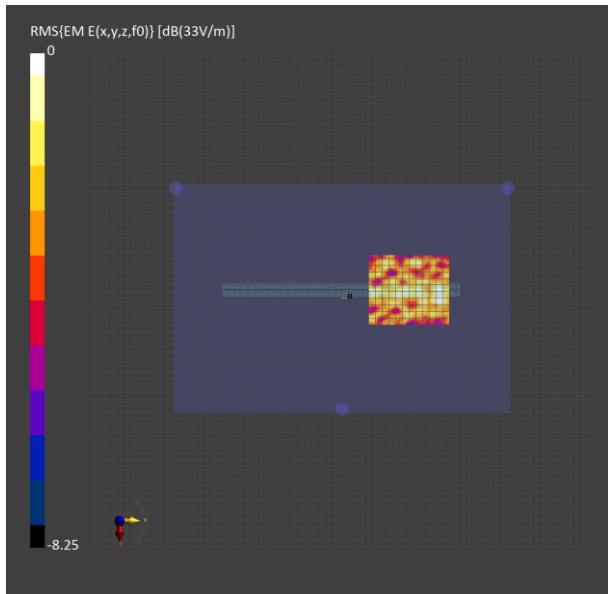
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.96
psPDtot+ [W/m ²]	2.07
psPDmod+ [W/m ²]	2.19
E _{max} [V/m]	33.0
Power Drift [dB]	0.14



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ID: 031

Report No. :TESA2411000781ES

Measurement Report_U-NII-6,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_2mm_Tx2

Exposure Conditions

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

Hardware Setup

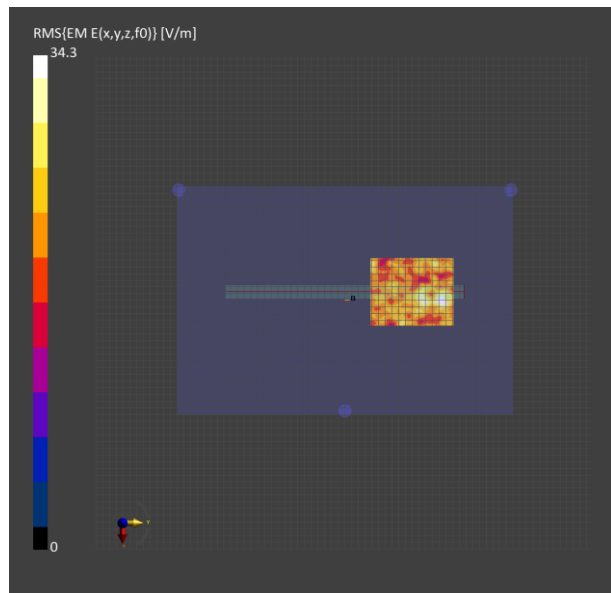
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.95
psPDtot+ [W/m ²]	2.01
psPDmod+ [W/m ²]	2.20
E _{max} [V/m]	34.3
Power Drift [dB]	-0.14



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ID: 032

Report No. :TESA2411000781ES

Measurement Report_U-NII-7,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_2mm_Tx2

Exposure Conditions

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

Hardware Setup

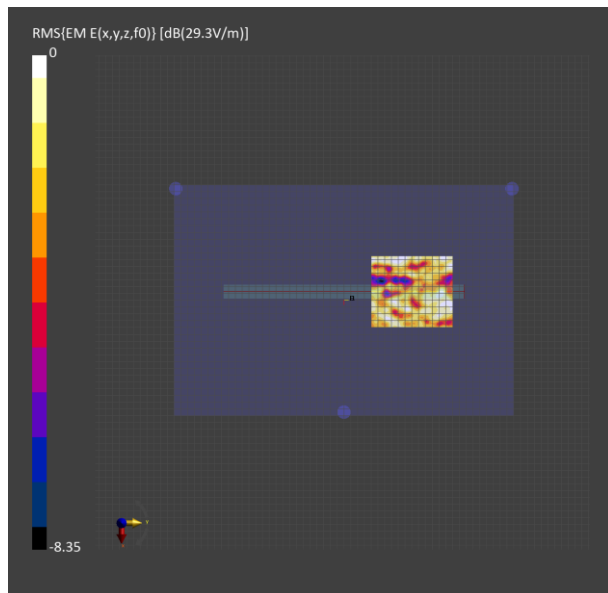
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.59
psPDtot+ [W/m ²]	1.61
psPDmod+ [W/m ²]	1.66
E _{max} [V/m]	29.3
Power Drift [dB]	-0.09



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ID: 033

Report No. :TESA2411000781ES

Measurement Report_U-NII-8,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_2mm_Tx2

Exposure Conditions

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

Hardware Setup

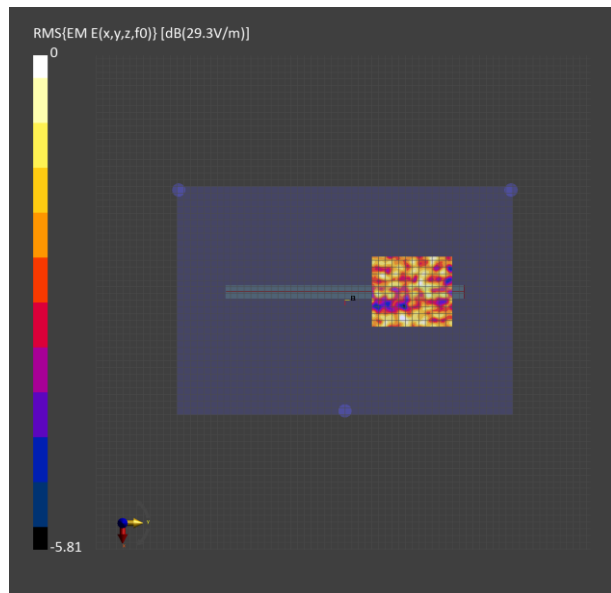
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.61
psPDtot+ [W/m ²]	1.63
psPDmod+ [W/m ²]	1.71
E _{max} [V/m]	29.8
Power Drift [dB]	0.02



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Report No. :TESA2411000781ES

Measurement Report_Top Edge, U-NII-5

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_2mm_Tx1

Exposure Conditions

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

Hardware Setup

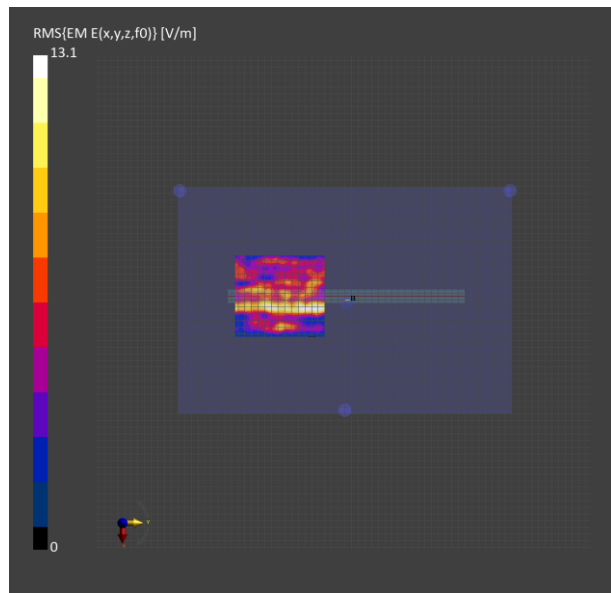
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 130.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.218
psPDtot+ [W/m ²]	0.234
psPDmod+ [W/m ²]	0.266
E _{max} [V/m]	12.6
Power Drift [dB]	0.09



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Report No. :TESA2411000781ES

Measurement Report_Top Edge, U-NII-5

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_2mm_Tx1

Exposure Conditions

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

Hardware Setup

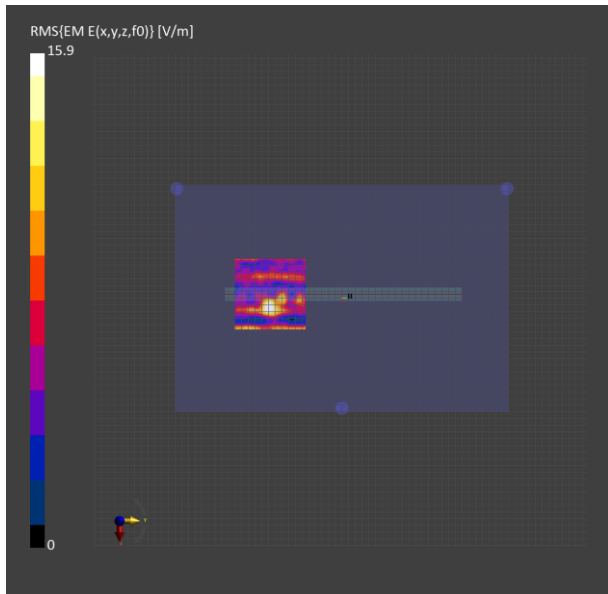
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

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	2024-12-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.304
psPDtot+ [W/m ²]	0.341
psPDmod+ [W/m ²]	0.392
E _{max} [V/m]	0.13
Power Drift [dB]	0.12



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ID: 082

Report No. :TESA2411000781ES

Measurement Report_Top Edge, U-NII-6

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_2mm_Tx1

Exposure Conditions

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

Hardware Setup

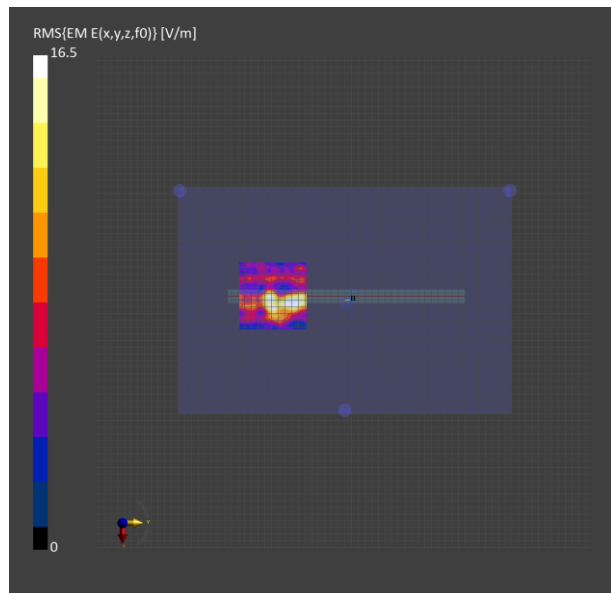
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

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	2024-12-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.408
psPDtot+ [W/m ²]	0.434
psPDmod+ [W/m ²]	0.496
E _{max} [V/m]	16.5
Power Drift [dB]	0.13



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Report No. :TESA2411000781ES

Measurement Report_Top Edge, U-NII-7

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)_2mm_Tx1

Exposure Conditions

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

Hardware Setup

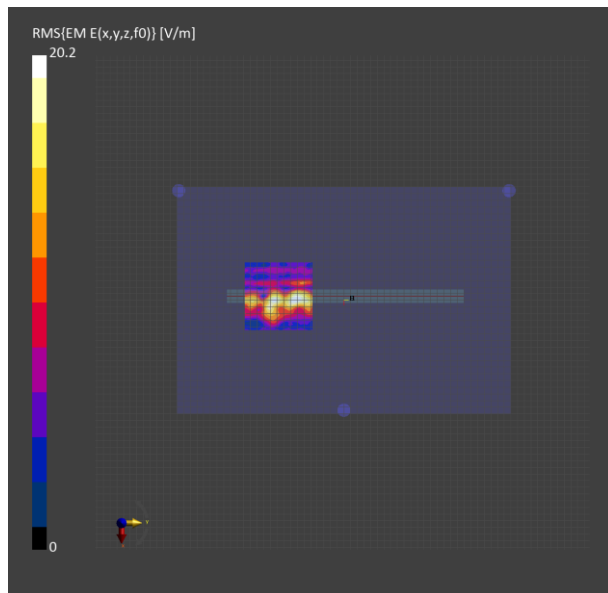
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

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	2024-12-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.552
psPDtot+ [W/m ²]	0.626
psPDmod+ [W/m ²]	0.681
E _{max} [V/m]	20.3
Power Drift [dB]	-0.03



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Report No. :TESA2411000781ES

Measurement Report_Top Edge, U-NII-8

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_2mm_Tx1

Exposure Conditions

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

Hardware Setup

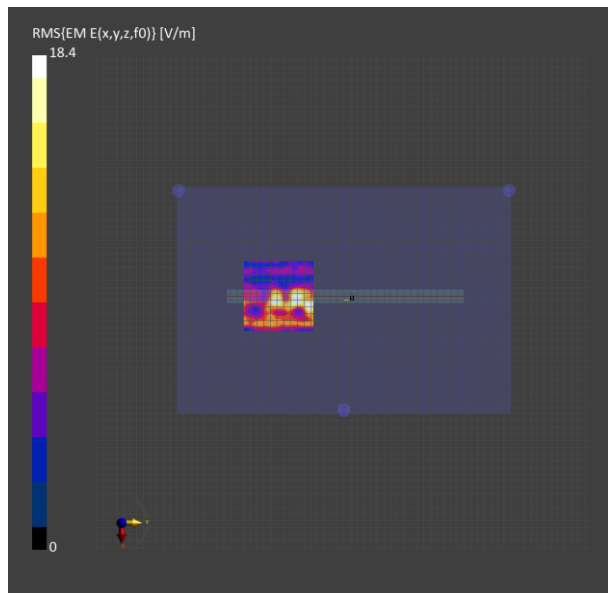
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

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	2024-12-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.455
psPDtot+ [W/m ²]	0.512
psPDmod+ [W/m ²]	0.567
E _{max} [V/m]	18.4
Power Drift [dB]	0.11



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Report No. :TESA2411000781ES

Measurement Report_Top Edge, U-NII-5

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_2mm_Tx2

Exposure Conditions

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

Hardware Setup

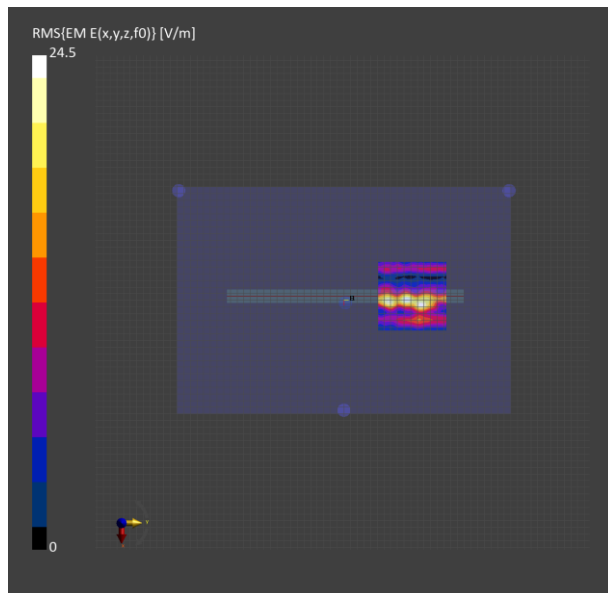
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

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	2024-12-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.509
psPDtot+ [W/m ²]	0.613
psPDmod+ [W/m ²]	0.774
E _{max} [V/m]	24.5
Power Drift [dB]	0.06



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Report No. :TESA2411000781ES

Measurement Report_Top Edge, U-NII-5

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_2mm_Tx2

Exposure Conditions

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

Hardware Setup

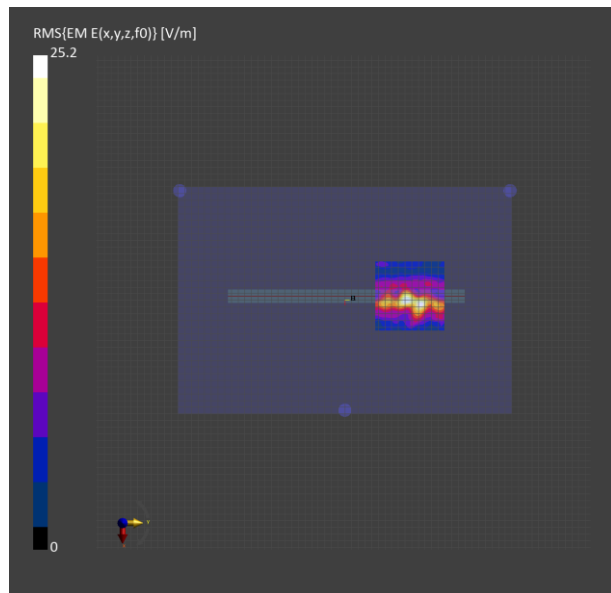
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

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	2024-12-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.723
psPDtot+ [W/m ²]	0.800
psPDmod+ [W/m ²]	0.967
E _{max} [V/m]	25.2
Power Drift [dB]	-0.09



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Report No. :TESA2411000781ES

Measurement Report_Top Edge, U-NII-6

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_2mm_Tx2

Exposure Conditions

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

Hardware Setup

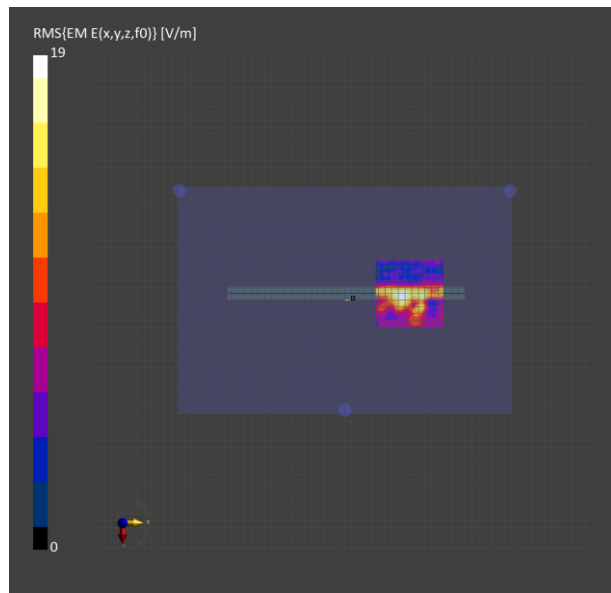
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

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	2024-12-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.482
psPDtot+ [W/m ²]	0.529
psPDmod+ [W/m ²]	0.592
E _{max} [V/m]	19.0
Power Drift [dB]	-0.11



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ID: 088

Report No. :TESA2411000781ES

Measurement Report_Top Edge, U-NII-7

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_2mm_Tx2

Exposure Conditions

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

Hardware Setup

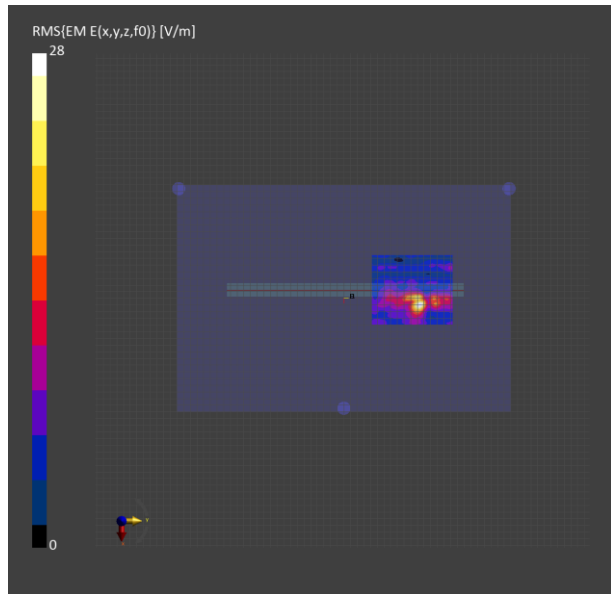
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.667
psPDtot+ [W/m ²]	0.745
psPDmod+ [W/m ²]	0.949
E _{max} [V/m]	28.0
Power Drift [dB]	-0.05



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ID: 089

Report No. :TESA2411000781ES

Measurement Report_Top Edge, U-NII-8

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_2mm_Tx2

Exposure Conditions

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

Hardware Setup

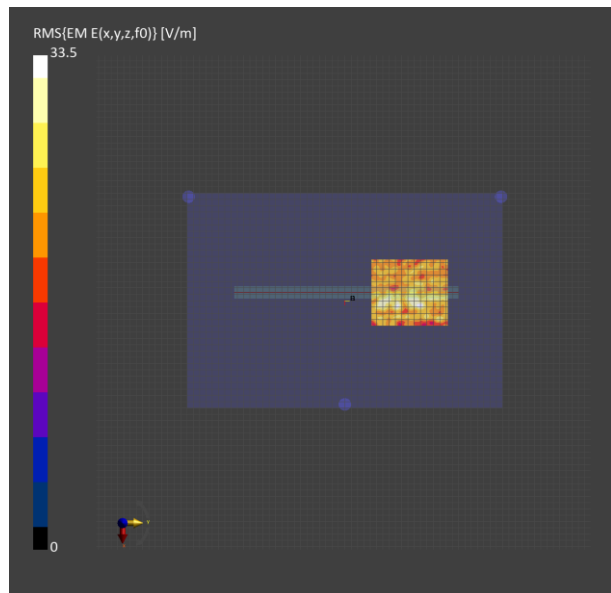
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2024-12-20
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.73
psPDtot+ [W/m ²]	1.81
psPDmod+ [W/m ²]	1.92
E _{max} [V/m]	33.5
Power Drift [dB]	-0.01



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14 SAR SYSTEM CHECK RESULTS

Date: 2024/12/15

Report No. :TESA2411000781ES

Dipole 2450 MHz_SN:727

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.775$ S/m; $\epsilon_r = 39.117$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.29, 6.66, 6.76) @ 2450 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 20.2 W/kg

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

Reference Value = 98.67 V/m; Power Drift = 0.03 dB

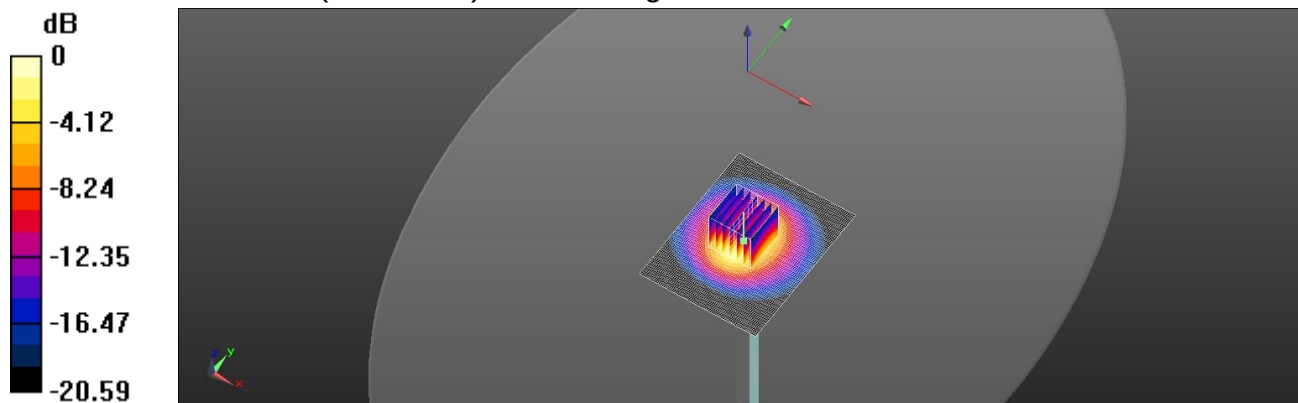
Peak SAR (extrapolated) = 25.5 W/kg

SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.63 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

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

Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.94 dBW/kg

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Date: 2024/12/16

Report No. :TESA2411000781ES

Dipole 5250 MHz_SN:1023

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

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.761 \text{ S/m}$; $\epsilon_r = 35.787$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.57, 5.08, 5.16) @ 5250 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 16.8 W/kg

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

Reference Value = 45.71 V/m; Power Drift = 0.06 dB

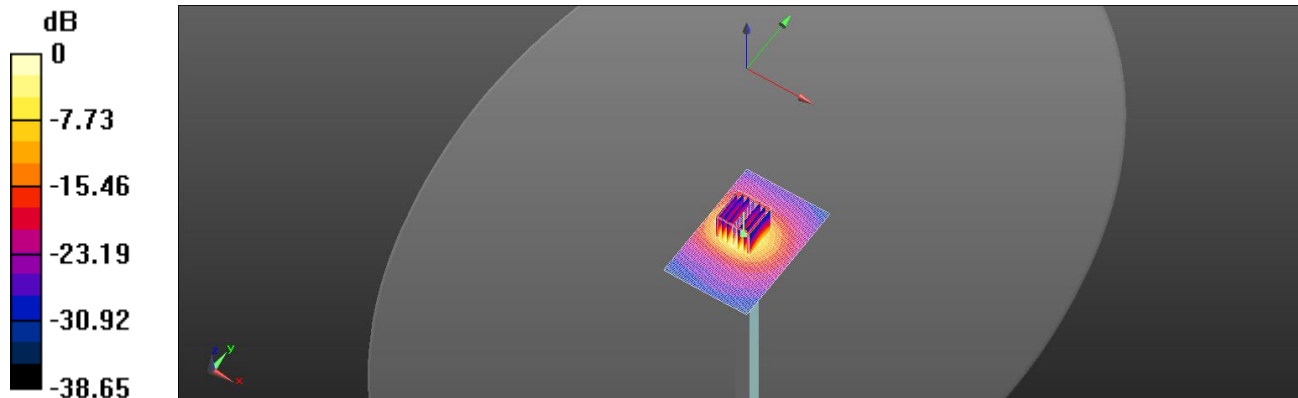
Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.25 W/kg

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

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

Maximum value of SAR (measured) = 17.0 W/kg



0 dB = 17.0 W/kg = 12.30 dBW/kg

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Date: 2024/12/17

Report No. :TESA2411000781ES**Dipole 5600 MHz_SN:1023**

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

Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.125 \text{ S/m}$; $\epsilon_r = 35.424$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.05, 4.61, 4.69) @ 5600 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 16.5 W/kg

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

Reference Value = 55.83 V/m; Power Drift = 0.02 dB

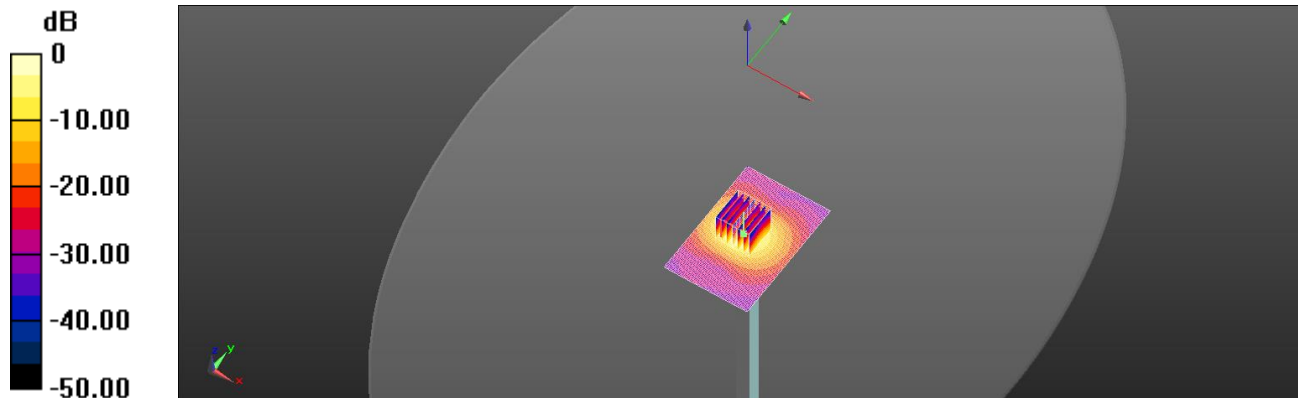
Peak SAR (extrapolated) = 34.3 W/kg

SAR(1 g) = 8.16 W/kg; SAR(10 g) = 2.39 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.4%

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



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

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Date: 2024/12/17

Report No. :TESA2411000781ES**Dipole 5750 MHz_SN:1023**

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

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.28 \text{ S/m}$; $\epsilon_r = 35.244$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 – SN7823; ConvF(5.19, 4.74, 4.81) @ 5750 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 15.9 W/kg

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

Reference Value = 53.68 V/m; Power Drift = 0.05 dB

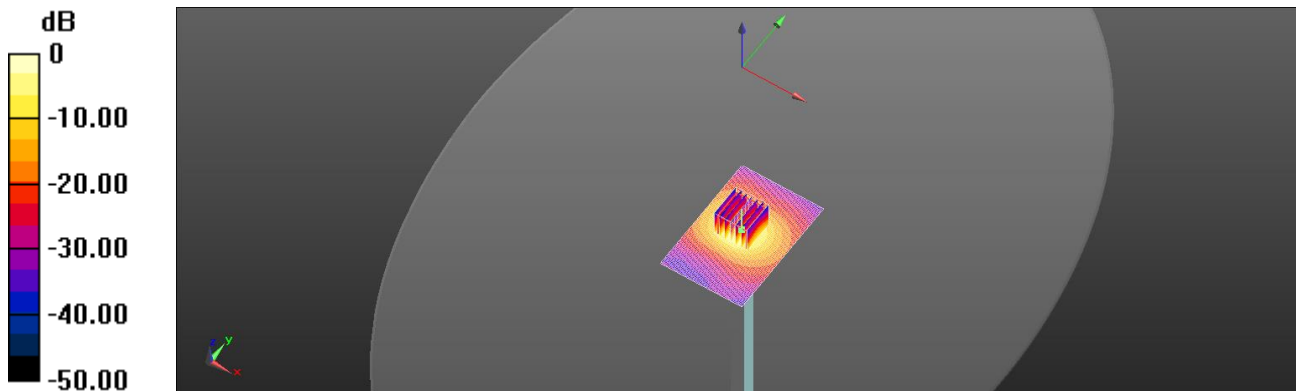
Peak SAR (extrapolated) = 33.8 W/kg

SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.24 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.5%

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



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

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Date: 2024/12/18

Report No. :TESA2411000781ES

Dipole 5850 MHz_SN:1023

Communication System: CW; Frequency: 5850 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5850 \text{ MHz}$; $\sigma = 5.385 \text{ S/m}$; $\epsilon_r = 35.15$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(5.19, 4.74, 4.81) @ 5850 MHz; Calibrated: 2024/07/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2024/03/13
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 19.1 W/kg

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

Reference Value = 57.99 V/m; Power Drift = 0.01 dB

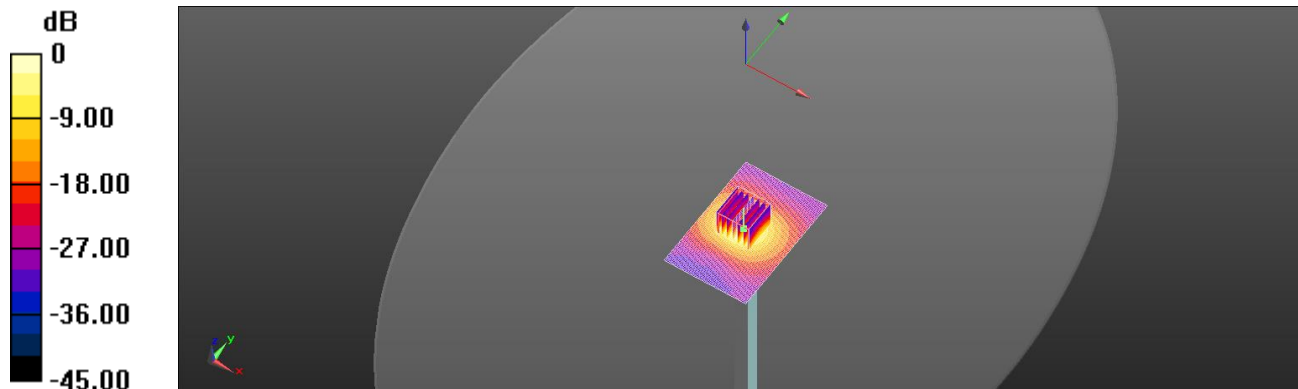
Peak SAR (extrapolated) = 39.2 W/kg

SAR(1 g) = 8.36 W/kg; SAR(10 g) = 2.2 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 18.7 W/kg



0 dB = 18.7 W/kg = 12.72 dBW/kg

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Report No. :TESA2411000781ES

Measurement Report

Dipole_D6500-SN:1006

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	6500.0, 6500	6.2	6.08	34.413

Hardware Setup

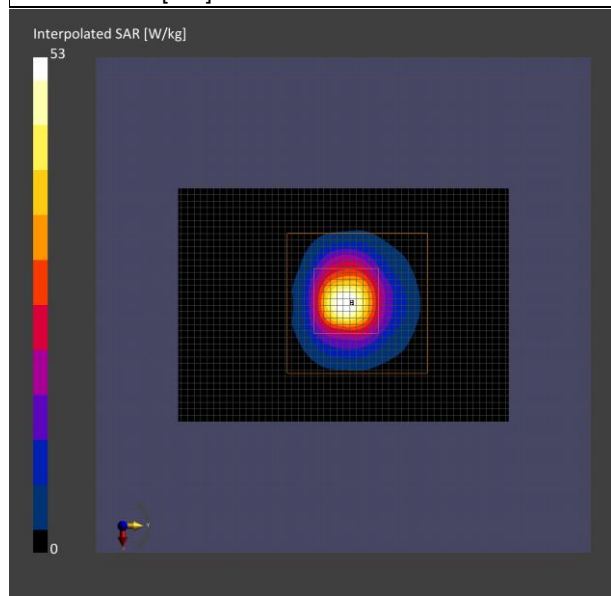
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 51.0	28.0 x 28.0 x 24.0
Grid Steps [mm]	6.0 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	27.0	29.8
psSAR8g [W/kg]	6.25	6.61
psSAR10g [W/kg]	5.15	5.43
psPDab (4.0cm2, sq) [W/m2]		132
Power Drift [dB]	0.03	0.09
M2/M1 [%]		50.8
Dist 3dB Peak [mm]		4.3



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Report No. :TESA2411000781ES

Measurement Report

Dipole_D7000-SN:1007

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	7000.0, 7000	6.14	6.625	33.721

Hardware Setup

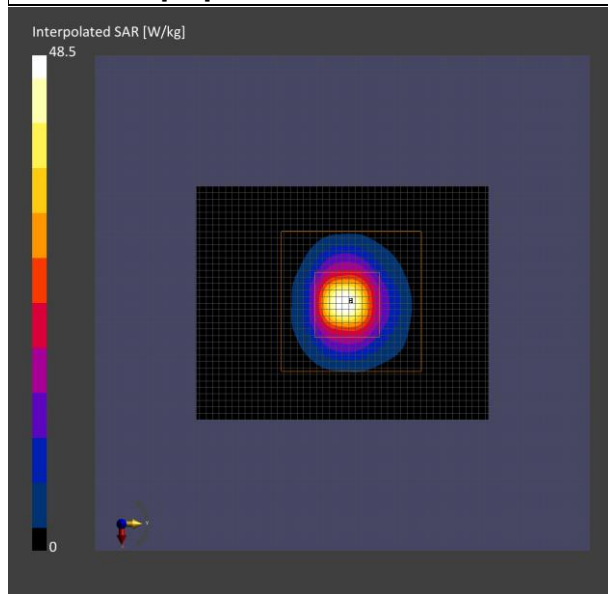
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7823, 2024-07-31	DAE4 Sn1751, 2024-03-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 45.0	28.0 x 28.0 x 24.0
Grid Steps [mm]	6.0 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-18	2024-12-18
psSAR1g [W/kg]	25.1	26.4
psSAR8g [W/kg]	5.62	5.73
psSAR10g [W/kg]	4.63	4.70
psPDab (4.0cm2, sq) [W/m2]		115
Power Drift [dB]	0.03	-0.08
M2/M1 [%]		47.0
Dist 3dB Peak [mm]		4.6



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15 PD SYSTEM CHECK RESULTS

Report No. :TESA2411000781ES

Measurement Report

5G Verification Source 10GHz-SN:1070

Exposure Conditions

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

Hardware Setup

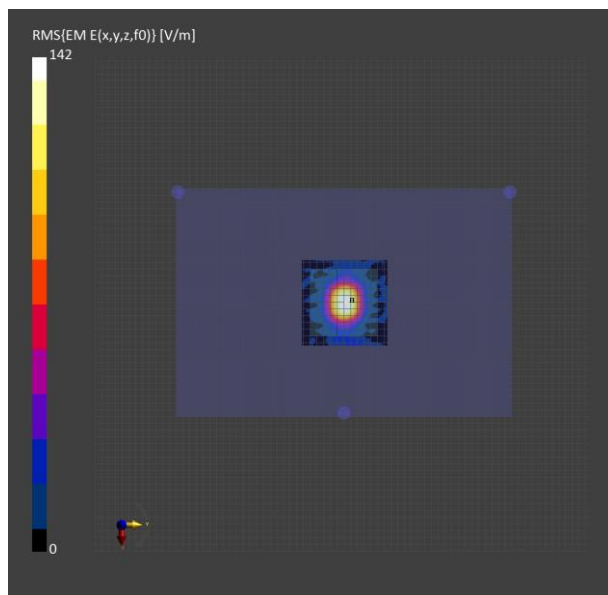
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV3 - SN9399_F1-55GHz, 2024-01-23	DAE4 Sn1751, 2024-03-13

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	2024-12-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	55.2
psPDtot+ [W/m ²]	55.4
psPDmod+ [W/m ²]	55.4
E _{max} [V/m]	140
Power Drift [dB]	0.01



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16 APPENDIXES

Refer to separated files for the following appendixes.

16.1 SAR_Appendix A Photographs

16.2 SAR_Appendix B DAE & Probe Cal. Certificate

16.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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