

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.	MT7925B22M
Host Model Number:	TPN-W168
Applicant	HP Inc. 3390 East Harmony Road, Fort Collins, United States, 80528
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	B94-MT7925B22MP
Date of EUT Receipt	Sep. 25, 2025
Date of Test(s)	Oct. 13, 2025 ~ Oct. 17, 2025
Date of Issue	Nov. 10, 2025

Approved By /

John Teh

John Yeh

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

Remarks:

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2509000721EN	00	Initial creation of document	Nov. 10, 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

KDB248227D01v02r02

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.	MT7925B22M	
Host Model Number:	TPN-W168	
Duty Cycle	WLAN 802.11	Please refer to section 3
	Bluetooth	Please refer to section 3
Supported radios (TX Frequency Range, MHz)	802.11 b/g/n/ac/ax/be	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax/be	5.2GHz (5150.0 – 5250.0 MHz) 5.3GHz (5250.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 5.9GHz (5850.0 – 5895.0 MHz)
	802.11a/ax/be	6.2GHz (5925.0 – 6425.0 MHz) 6.5GHz (6425.0 – 6525.0 MHz) 6.7GHz (6525.0 – 6875.0 MHz) 7.0GHz (6875.0 – 7125.0 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

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1.3 Maximum value

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g (W/kg)	Highest APD (W/m ²)	Highest PD (W/m ²)
Bluetooth(GFSK)	0.03	N/A	N/A
2.4G WLAN	0.32	N/A	N/A
5G WLAN	0.75	N/A	N/A
6G WLAN	0.23	2.1	1.97

1.4 Antenna Information

Vendor	Vendor1									
Antenna	Tx1									
Part Number	025.902HZ.0001(00-2602919100)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	-0.56	-0.50	-0.50	-0.44	-0.19	-1.77	0.21	-1.81	-0.86	-0.23
Antenna	Tx2									
Part Number	025.902HY.0001(00-2602919200)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	0.84	-1.93	-1.75	-0.56	-0.56	-0.55	0.16	0.26	0.26	-0.72

Note: Antenna information is provided by the applicant.

Vendor	Vendor2									
Antenna	Tx1									
Part Number	025.902I2.0001(81EAB615.G57)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	2.53	2.44	2.67	2.17	2.22	2.76	2.76	2.63	2.08	1.98
Antenna	Tx2									
Part Number	025.902I1.0001(81EAB615.G56)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	2.47	2.37	2.55	2.38	2.42	2.69	2.69	2.76	2.09	1.98

Note: Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

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

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

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Block Diagram (DASY8)

Phantom

TSL

SAR Probe

DAE

EOC

Robot

D = Spacing

DUT

ANT

MAIA

BSS

DASY Computer

Measurement server

Robot Server

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

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EX3DV4 E-Field Probe

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

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PHANTOM (ELI)

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

DEVICE HOLDER

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

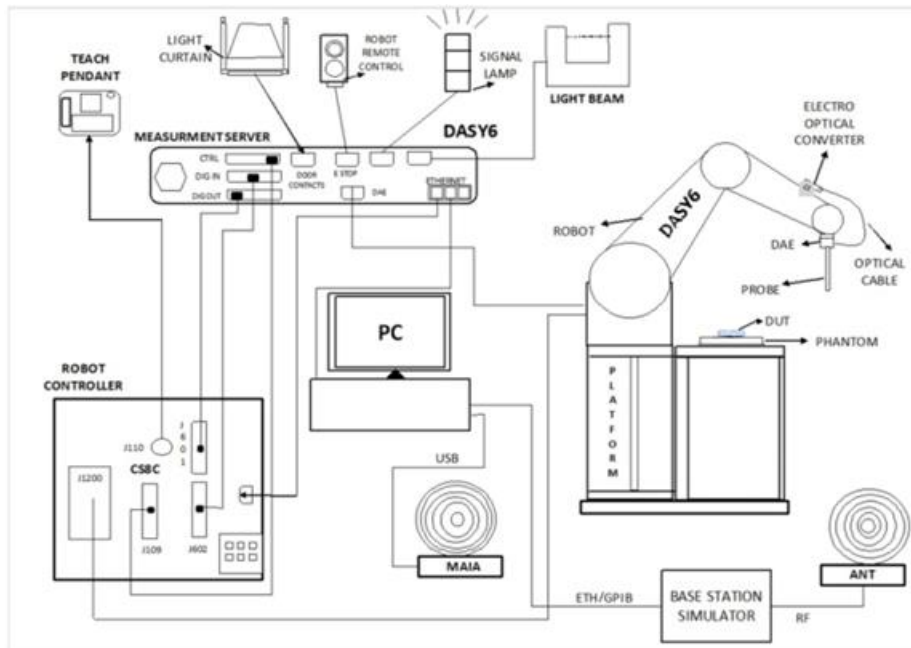
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2.3 PD system

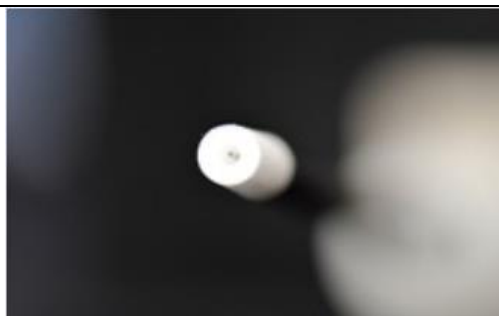
Block Diagram (DASY6)

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



EUmmWVx probe

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



Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/ point, 120° rotated around probe axis.

Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.

Frequency Range

750 MHz – 110 GHz

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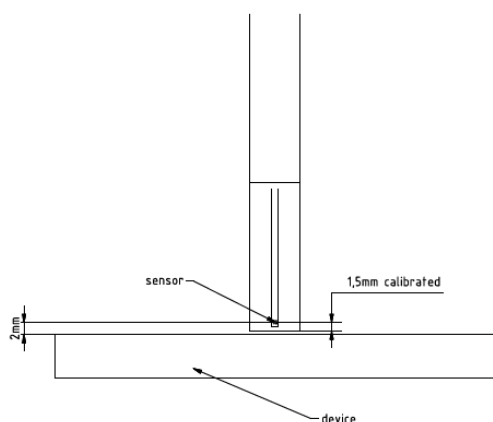
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Dynamic Range	< 20 V/m – 10,000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm (DASY6)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: encapsulation 8 mm (internal sensor < 1mm) Distance from probe tip to dipole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



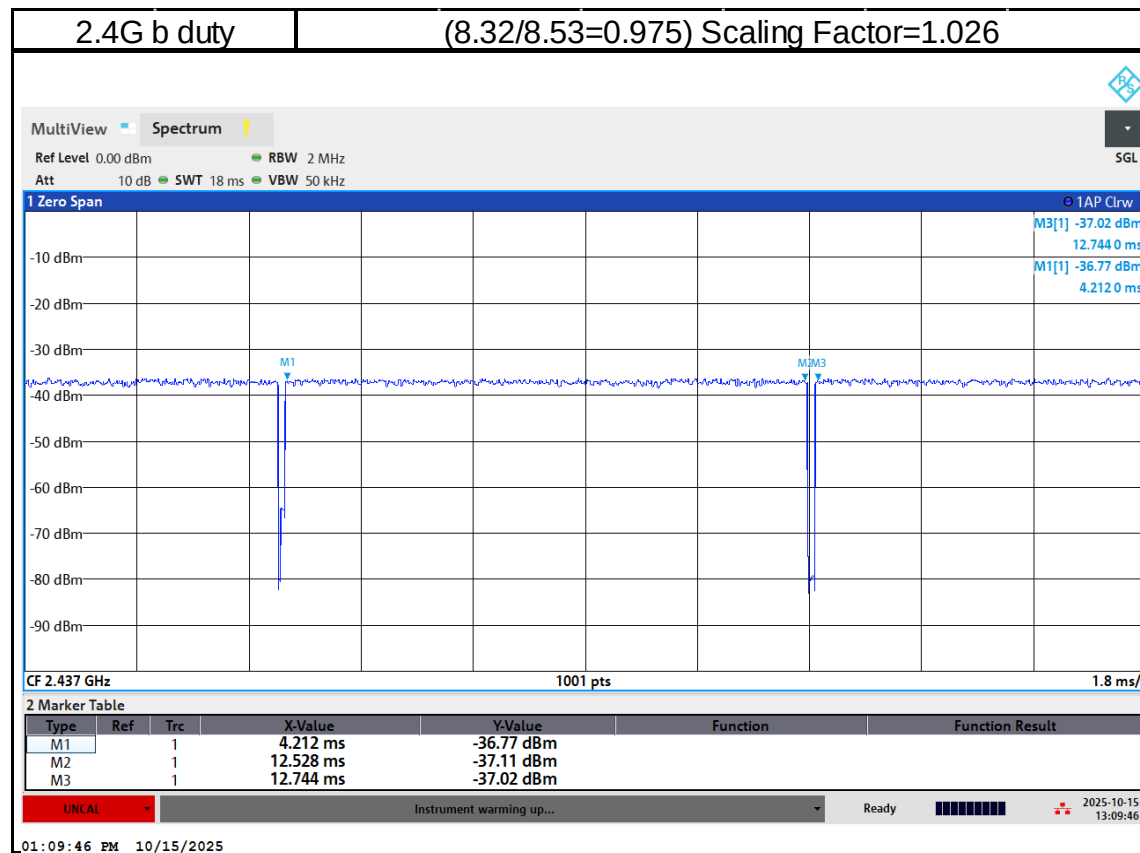
mmWave Phantom

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

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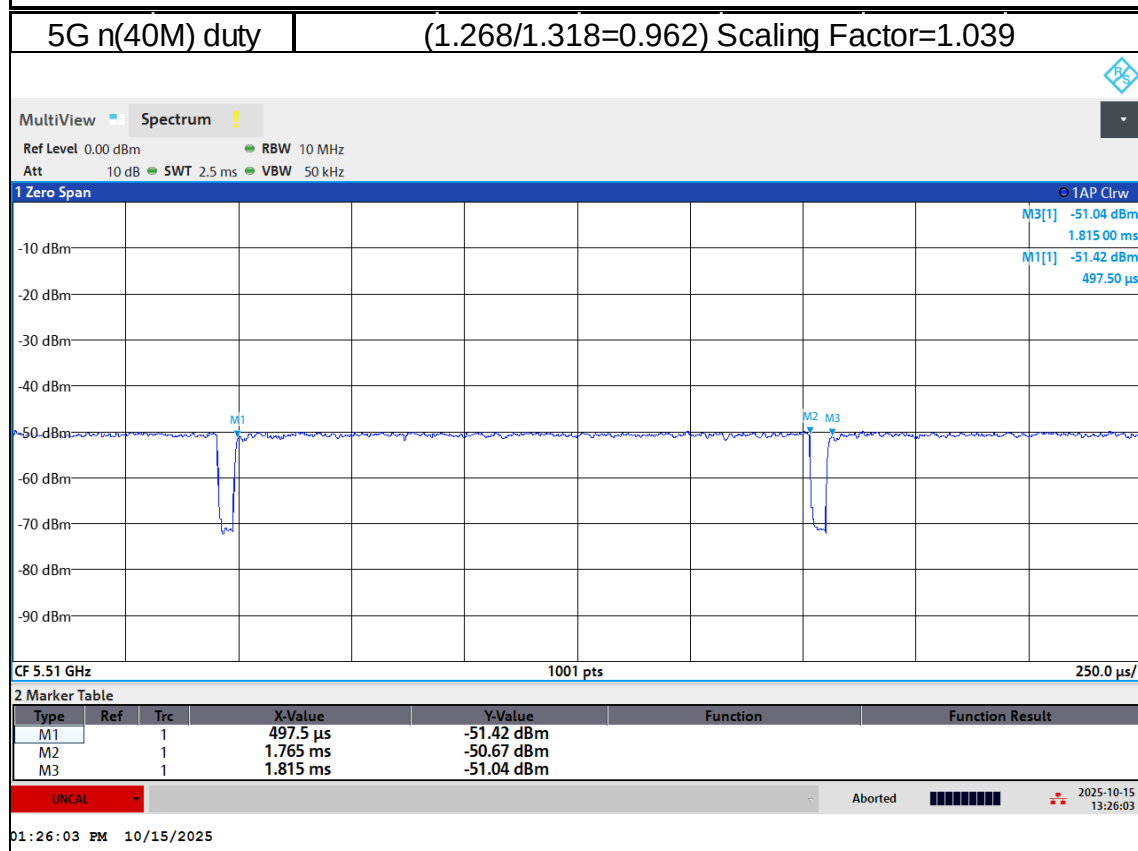
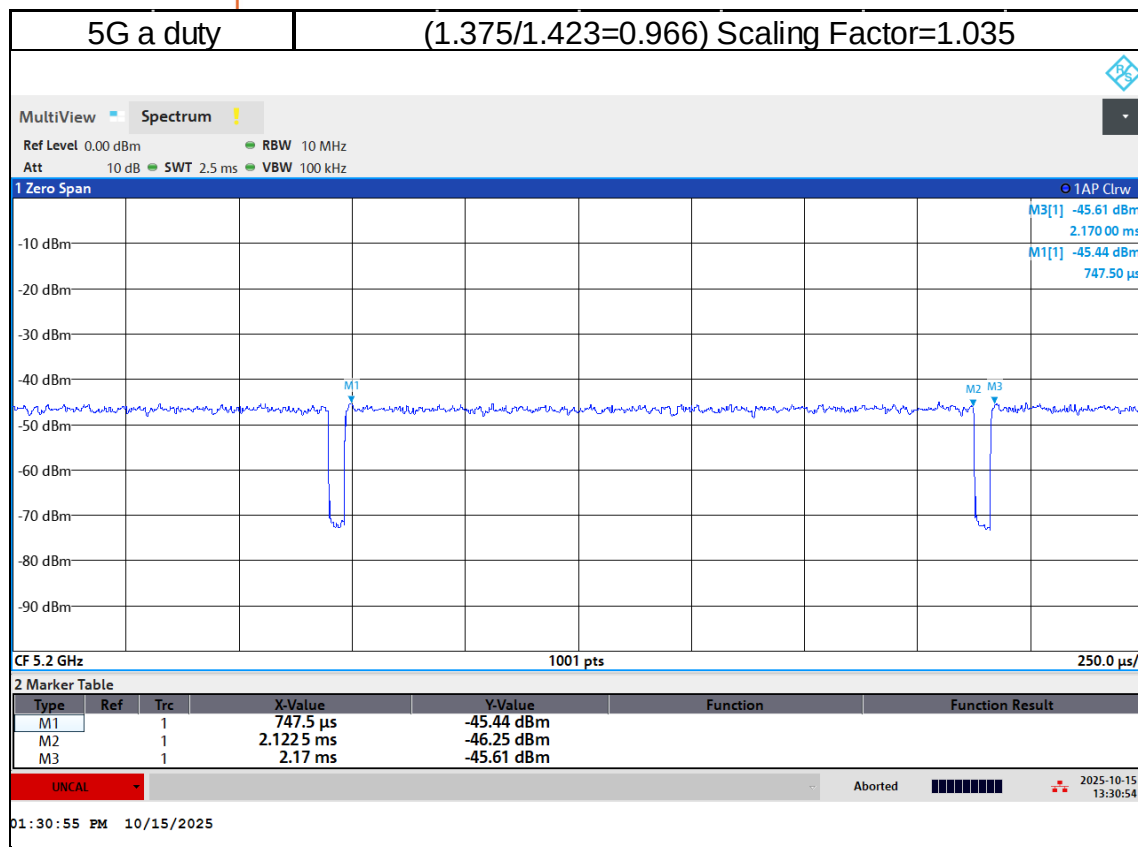
3 DUTY CYCLE



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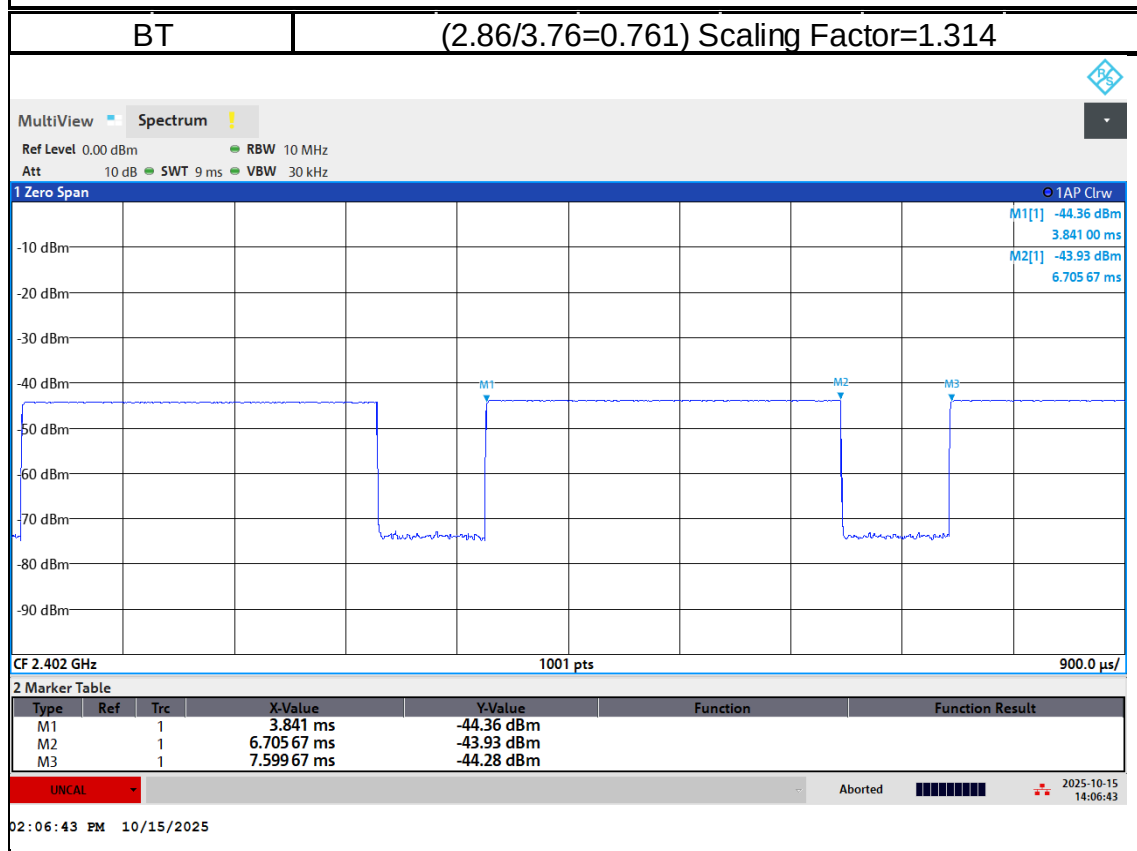
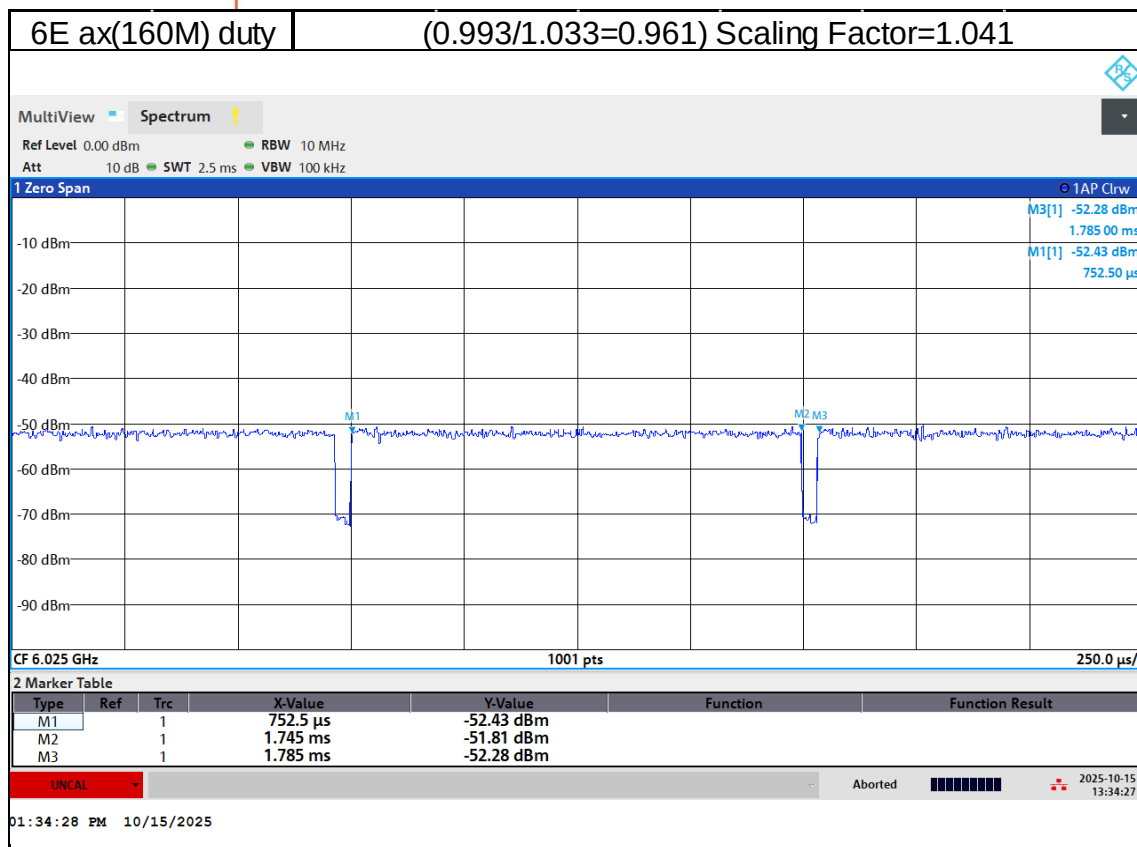
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4 SAR SYSTEM VERIFICATION

4.1 Tissue Simulating Liquid

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

4.2 Tissue Simulant Liquid measurement

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

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

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4.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
2402	39.296	1.758	37.854	1.690	-3.67%	-3.89%	± 5%	Oct. 13, 2025
2412	39.276	1.767	37.828	1.699	-3.69%	-3.85%	± 5%	Oct. 13, 2025
2437	39.226	1.789	37.783	1.720	-3.68%	-3.84%	± 5%	Oct. 13, 2025
2441	39.218	1.792	37.771	1.724	-3.69%	-3.81%	± 5%	Oct. 13, 2025
2450	39.200	1.800	37.750	1.728	-3.70%	-4.00%	± 5%	Oct. 13, 2025
2462	39.184	1.813	37.731	1.742	-3.71%	-3.91%	± 5%	Oct. 13, 2025
2480	39.160	1.832	37.711	1.757	-3.70%	-4.09%	± 5%	Oct. 13, 2025
5180	36.020	4.639	37.611	4.833	4.42%	4.18%	± 5%	Oct. 14, 2025
5200	36.000	4.660	37.599	4.852	4.44%	4.12%	± 5%	Oct. 14, 2025
5220	35.980	4.680	37.573	4.870	4.43%	4.06%	± 5%	Oct. 14, 2025
5240	35.960	4.700	37.550	4.890	4.42%	4.04%	± 5%	Oct. 14, 2025
5250	35.950	4.710	37.535	4.903	4.41%	4.10%	± 5%	Oct. 14, 2025
5260	35.940	4.720	37.530	4.912	4.42%	4.07%	± 5%	Oct. 14, 2025
5280	35.920	4.740	37.500	4.935	4.40%	4.11%	± 5%	Oct. 14, 2025
5300	35.900	4.760	37.473	4.949	4.38%	3.97%	± 5%	Oct. 14, 2025
5320	35.880	4.780	37.455	4.964	4.39%	3.85%	± 5%	Oct. 14, 2025
5510	35.635	4.976	36.575	5.077	2.64%	2.04%	± 5%	Oct. 15, 2025
5590	35.515	5.060	36.464	5.159	2.67%	1.97%	± 5%	Oct. 15, 2025
5600	35.500	5.070	36.445	5.171	2.66%	1.99%	± 5%	Oct. 15, 2025
5670	35.430	5.140	36.365	5.242	2.64%	1.98%	± 5%	Oct. 15, 2025
5710	35.390	5.180	35.365	5.132	-0.07%	-0.93%	± 5%	Oct. 15, 2025
5745	35.355	5.215	35.324	5.165	-0.09%	-0.96%	± 5%	Oct. 15, 2025
5750	35.35	5.22	35.312	5.172	-0.11%	-0.92%	± 5%	Oct. 15, 2025
5785	35.315	5.255	35.280	5.210	-0.10%	-0.86%	± 5%	Oct. 15, 2025
5825	35.275	5.29625	34.925	5.213	-0.99%	-1.57%	± 5%	Oct. 15, 2025
5835	35.265	5.30675	34.920	5.222	-0.98%	-1.60%	± 5%	Oct. 15, 2025
5850	35.25	5.3225	34.900	5.234	-0.99%	-1.66%	± 5%	Oct. 15, 2025
5875	35.225	5.34875	34.885	5.261	-0.97%	-1.64%	± 5%	Oct. 15, 2025
6025	35.07	5.5095	34.038	5.303	-2.94%	-3.75%	± 5%	Oct. 16, 2025
6185	34.878	5.6983	33.838	5.491	-2.98%	-3.64%	± 5%	Oct. 16, 2025
6345	34.686	5.8871	33.643	5.677	-3.01%	-3.57%	± 5%	Oct. 16, 2025
6500	34.5	6.07	33.457	5.847	-3.02%	-3.67%	± 5%	Oct. 16, 2025
6505	34.494	6.0758	33.445	5.856	-3.04%	-3.62%	± 5%	Oct. 16, 2025
6665	34.302	6.2614	33.255	6.024	-3.05%	-3.79%	± 5%	Oct. 16, 2025
6825	34.11	6.447	33.060	6.200	-3.08%	-3.83%	± 5%	Oct. 16, 2025
6985	33.918	6.6326	32.645	6.322	-3.75%	-4.68%	± 5%	Oct. 17, 2025
7000	33.9	6.65	32.630	6.340	-3.75%	-4.66%	± 5%	Oct. 17, 2025

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4.4 The composition of the tissue simulating liquid:

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

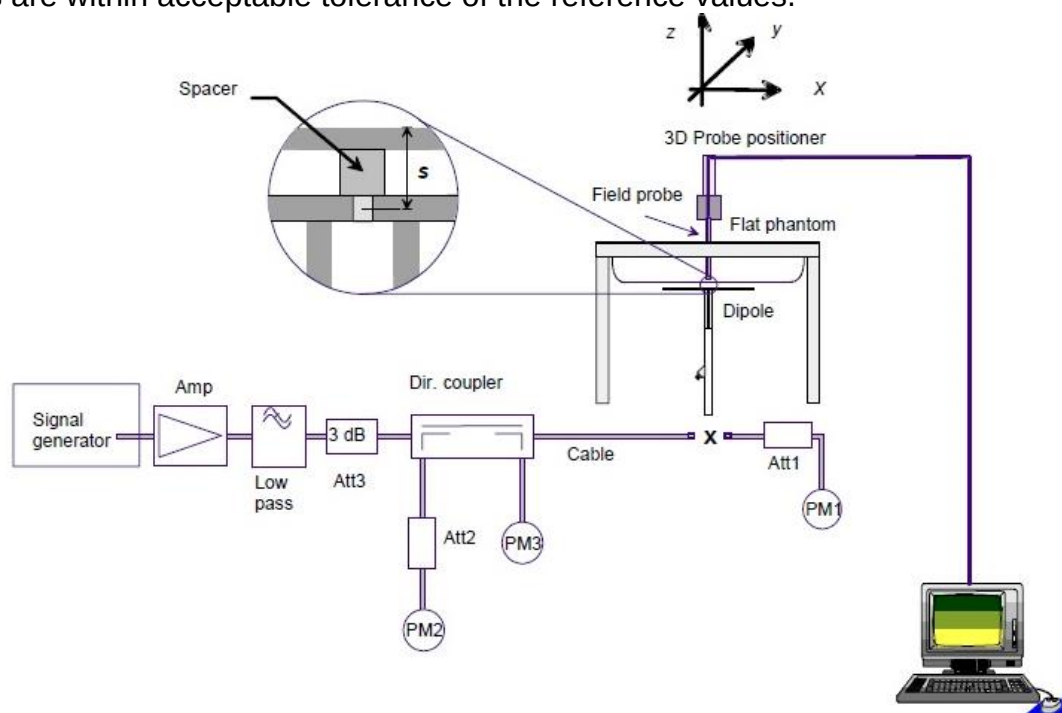
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

4.5 System check

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

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

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



The block diagram of system check

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4.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.6	13.8	55.2	4.94	± 10%	Oct.13,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1349	5250	80.9	7.91	79.1	-2.22	± 10%	Oct.14,2025
D5GHzV2	1349	5600	82.4	8.36	83.6	1.46	± 10%	Oct.15,2025
D5GHzV2	1349	5750	80.8	7.96	79.6	-1.49	± 10%	Oct.15,2025
D5GHzV2	1349	5850	79.9	8.47	84.7	6.01	± 10%	Oct.15,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	295	28.2	282	-4.41	± 10%	Oct.16,2025
D7GHzV2	1007	7000	287	27.2	272	-5.23	± 10%	Oct.17,2025

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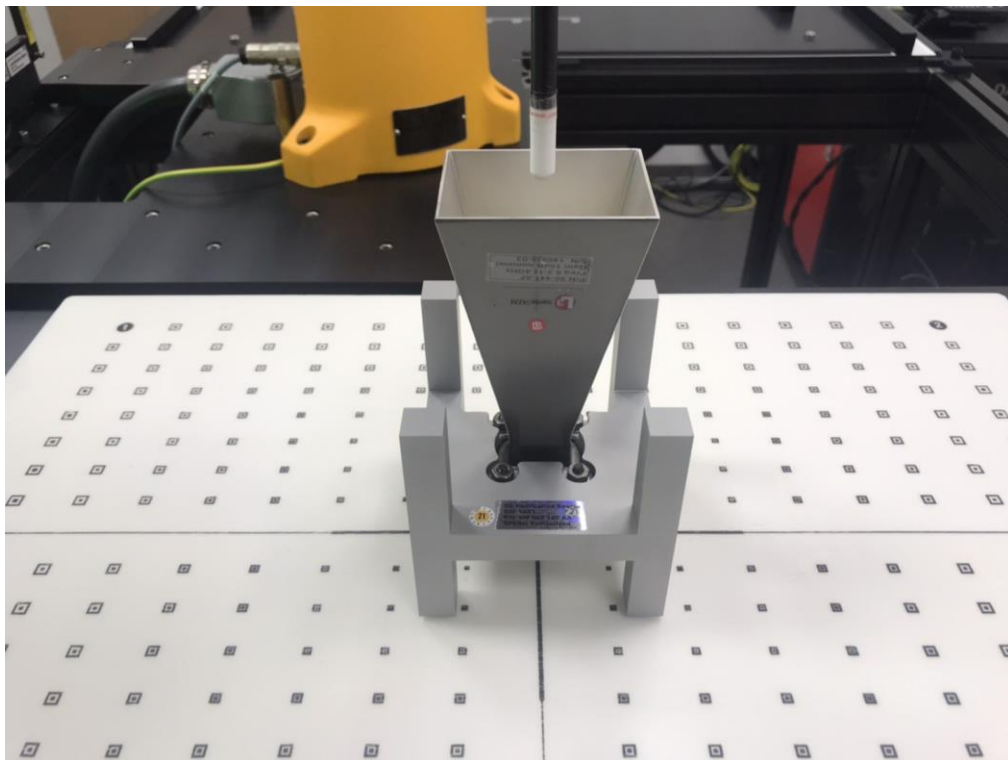
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5 PD SYSTEM VERIFICATION

5.1 System check

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

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



System Verification Setup Photo

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5.2 System check result

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Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm ² (W/m ²)	Target 4cm ² (W/m ²)	Deviation (dB)	Date
10000	10000	9616	1824	10	93.3	58.2	56	0.17	Oct.17,2025

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6 TEST CONFIGURATIONS

6.1 Test Environment

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

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

6.2 Test Note

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

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

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

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

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

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

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

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6.3 Test position

Laptop mode SAR test position (0mm)

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

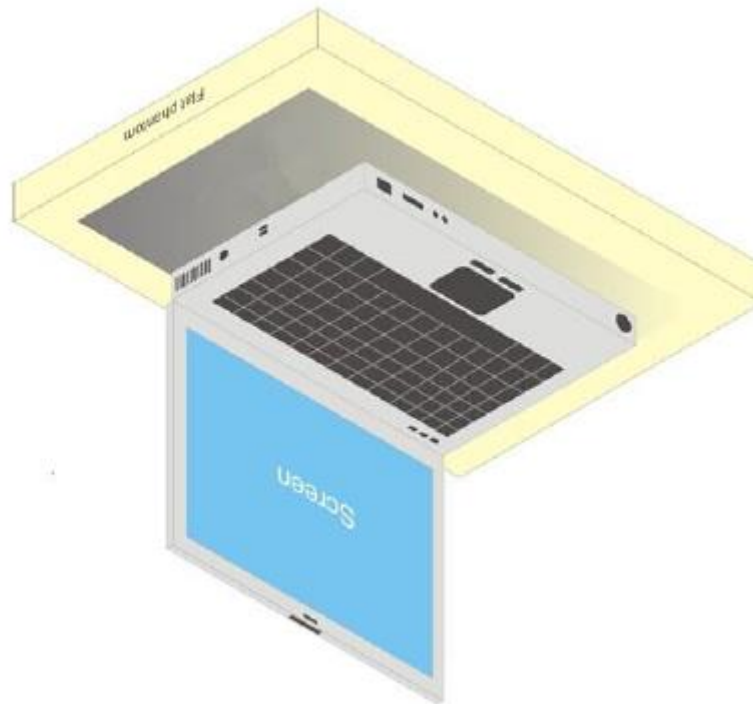


Illustration for Laptop Setup

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6.4 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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7 MAXIMUM OUTPUT POWER

7.1 WLAN

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	22.50	22.49
		6	2437		22.50	22.25
		11	2462		22.50	22.48
	802.11g	1	2412	6Mbps	18.00	17.75
		6	2437		21.50	21.29
		11	2462		18.50	18.41
	802.11n20-HT0	1	2412	MCS0	17.50	17.37
		6	2437		21.50	21.44
		11	2462		18.50	18.39
	802.11ac20-VHT0	1	2412	MCS0	17.50	17.26
		6	2437		21.50	21.43
		11	2462		18.50	18.36
	802.11ax20-HE0	1	2412	MCS0	17.50	17.36
		6	2437		21.50	21.41
		11	2462		18.50	18.44
	802.11be20-EHT0	1	2412	MCS0	17.50	17.34
		6	2437		21.50	21.27
		11	2462		18.50	18.35
	802.11n40-HT0	3	2422	MCS0	16.00	15.87
		6	2437		19.50	19.35
		9	2452		17.50	17.34
	802.11ac40-VHT0	3	2422	MCS0	16.00	15.78
		6	2437		19.50	19.32
		9	2452		17.50	17.42
	802.11ax40-HE0	3	2422	MCS0	16.00	15.72
		6	2437		19.50	19.31
		9	2452		17.50	17.36
	802.11be40-EHT0	3	2422	MCS0	16.00	15.83
		6	2437		19.50	19.29
		9	2452		17.50	17.40

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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	21.00	20.99
		40	5200		21.50	21.49
		44	5220		21.50	21.27
		48	5240		21.50	21.32
	802.11n20-HT0	36	5180	MCS0	20.00	19.76
		40	5200		21.50	21.38
		44	5220		21.50	21.43
		48	5240		21.50	21.39
	802.11ac20-VHT0	36	5180	MCS0	20.00	19.85
		40	5200		21.50	21.40
		44	5220		21.50	21.38
		48	5240		21.50	21.36
	802.11ax20-HE0	36	5180	MCS0	20.00	19.75
		40	5200		21.50	21.32
		44	5220		21.50	21.35
		48	5240		21.50	21.32
	802.11be20-EHT0	36	5180	MCS0	20.00	19.97
		40	5200		21.50	21.36
		44	5220		21.50	21.44
		48	5240		21.50	21.29
	802.11n40-HT0	38	5190	MCS0	19.00	18.92
		46	5230		21.00	20.80
	802.11ac40-VHT0	38	5190	MCS0	19.00	18.79
		46	5230		21.00	20.82
	802.11ax40-HE0	38	5190	MCS0	19.00	18.75
		46	5230		21.00	20.89
	802.11be40-EHT0	38	5190	MCS0	19.00	18.77
		46	5230		21.00	20.84
	802.11ac80-VHT0	42	5210	MCS0	17.50	17.39
	802.11ax80-HE0	42	5210	MCS0	17.50	17.27
	802.11be80-EHT0	42	5210	MCS0	17.50	17.42
	802.11ac160-VHT0	50	5250	MCS0	15.00	14.78
	802.11ax160-HE0	50	5250	MCS0	15.00	14.96
	802.11be160-EHT0	50	5250	MCS0	15.00	14.97

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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	21.50	21.48
		56	5280		21.50	21.49
		60	5300		21.50	21.43
		64	5320		21.00	20.92
	802.11n20-HT0	52	5260	MCS0	21.50	21.14
		56	5280		21.50	21.22
		60	5300		21.50	21.27
		64	5320		20.00	19.72
	802.11ac20-VHT0	52	5260	MCS0	21.50	21.22
		56	5280		21.50	21.26
		60	5300		21.50	21.17
		64	5320		20.00	19.76
	802.11ax20-HE0	52	5260	MCS0	21.50	21.37
		56	5280		21.50	21.17
		60	5300		21.50	21.32
		64	5320		20.00	19.69
	802.11be20-EHT0	52	5260	MCS0	21.50	21.17
		56	5280		21.50	21.27
		60	5300		21.50	21.19
		64	5320		20.00	19.83
	802.11n40-HT0	54	5270	MCS0	21.00	20.85
		62	5310		18.50	18.36
	802.11ac40-VHT0	54	5270	MCS0	21.00	20.74
		62	5310		18.50	18.32
	802.11ax40-HE0	54	5270	MCS0	21.00	20.79
		62	5310		18.50	18.29
	802.11be40-EHT0	54	5270	MCS0	21.00	20.72
		62	5310		18.50	18.35
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.78
	802.11ax80-HE0	58	5290	MCS0	18.00	17.75
	802.11be80-EHT0	58	5290	MCS0	18.00	17.81

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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	20.50	20.41
		120	5600		21.50	21.42
		140	5700		19.00	18.79
		144	5720		21.00	20.82
	802.11n20-HT0	100	5500	MCS0	19.50	19.33
		120	5600		21.50	21.31
		140	5700		19.00	18.81
		144	5720		21.50	21.37
	802.11ac20-VHT0	100	5500	MCS0	19.50	19.36
		120	5600		21.50	21.29
		140	5700		19.00	18.79
		144	5720		21.50	21.34
	802.11ax20-HE0	100	5500	MCS0	19.50	19.22
		120	5600		21.50	21.25
		140	5700		19.00	18.77
		144	5720		21.50	21.38
	802.11be20-EHT0	100	5500	MCS0	19.50	19.40
		120	5600		21.50	21.32
		140	5700		19.00	18.92
		144	5720		21.50	21.45
	802.11n40-HT0	102	5510	MCS0	18.00	17.89
		118	5590		21.00	20.98
		134	5670		20.00	19.97
		142	5710		21.50	21.49
	802.11ac40-VHT0	102	5510	MCS0	18.00	17.72
		118	5590		21.00	20.96
		134	5670		20.00	19.83
		142	5710		21.50	21.22
	802.11ax40-HE0	102	5510	MCS0	18.00	17.72
		118	5590		21.00	20.84
		134	5670		20.00	19.76
		142	5710		21.50	21.36
	802.11be40-EHT0	102	5510	MCS0	18.00	17.84
		118	5590		21.00	20.96
		134	5670		20.00	19.87
		142	5710		21.50	21.36
	802.11ac80-VHT0	106	5530	MCS0	18.00	17.92
		122	5610		20.50	20.31
		138	5690		21.00	20.90
	802.11ax80-HE0	106	5530	MCS0	18.00	17.85
		122	5610		20.50	20.46
		138	5690		21.00	20.81
	802.11be80-EHT0	106	5530	MCS0	18.00	17.85
		122	5610		20.50	20.31
		138	5690		21.00	20.80
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.70
	802.11ax160-HE0	114	5570	MCS0	16.00	15.78
	802.11be160-EHT0	114	5570	MCS0	16.00	15.84

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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	22.50	22.49
		157	5785		22.50	22.45
		165	5825		22.50	22.36
	802.11n20-HT0	149	5745	MCS0	22.50	22.34
		157	5785		22.50	22.45
		165	5825		22.50	22.33
	802.11ac20-VHT0	149	5745	MCS0	22.50	22.21
		157	5785		22.50	22.34
		165	5825		22.50	22.35
	802.11ax20-HE0	149	5745	MCS0	22.50	22.23
		157	5785		22.50	22.23
		165	5825		22.50	22.34
	802.11be20-EHT0	149	5745	MCS0	22.50	22.30
		157	5785		22.50	22.29
		165	5825		22.50	22.38
	802.11n40-HT0	151	5755	MCS0	21.50	21.30
		159	5795		21.50	21.38
	802.11ac40-VHT0	151	5755	MCS0	21.50	21.43
		159	5795		21.50	21.37
	802.11ax40-HE0	151	5755	MCS0	21.50	21.37
		159	5795		21.50	21.40
	802.11be40-EHT0	151	5755	MCS0	21.50	21.40
		159	5795		21.50	21.45
	802.11ac80-VHT0	155	5775	MCS0	20.50	20.22
	802.11ax80-HE0	155	5775	MCS0	20.50	20.27
	802.11be80-EHT0	155	5775	MCS0	20.50	20.43

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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	20.00	19.92
		173	5865		20.00	19.89
		177	5885		20.00	19.90
	802.11n20-HT0	169	5845	MCS0	20.00	19.73
		173	5865		20.00	19.84
		177	5885		18.00	17.82
	802.11ac20-VHT0	169	5845	MCS0	20.00	19.78
		173	5865		20.00	19.86
		177	5885		18.00	17.91
	802.11ax20-HE0	169	5845	MCS0	20.00	19.76
		173	5865		20.00	19.88
		177	5885		18.00	17.88
	802.11be20-EHT0	169	5845	MCS0	20.00	19.82
		173	5865		20.00	19.89
		177	5885		18.00	17.76
	802.11n40-HT0	167	5835	MCS0	21.50	21.49
		175	5875		21.50	21.25
	802.11ac40-VHT0	167	5835	MCS0	21.50	21.32
		175	5875		21.50	21.28
	802.11ax40-HE0	167	5835	MCS0	21.50	21.25
		175	5875		21.50	21.27
	802.11be40-EHT0	167	5835	MCS0	21.50	21.29
		175	5875		21.50	21.24
	802.11ac80-VHT0	171	5855	MCS0	21.00	20.77
	802.11ax80-HE0	171	5855	MCS0	21.00	20.85
	802.11be80-EHT0	171	5855	MCS0	21.00	20.92
	802.11ac160-VHT0	163	5815	MCS0	18.50	18.29
	802.11ax160-HE0	163	5815	MCS0	18.50	18.24
	802.11be160-EHT0	163	5815	MCS0	18.50	18.27

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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	22.50	22.20
		6	2437		22.50	22.34
		11	2462		22.50	22.19
	802.11g	1	2412	6Mbps	18.00	17.87
		6	2437		21.50	21.39
		11	2462		18.50	18.38
	802.11n20-HT0	1	2412	MCS0	17.50	17.44
		6	2437		21.50	21.37
		11	2462		18.50	18.40
	802.11ac20-VHT0	1	2412	MCS0	17.50	17.36
		6	2437		21.50	21.24
		11	2462		18.50	18.36
	802.11ax20-HE0	1	2412	MCS0	17.50	17.34
		6	2437		21.50	21.32
		11	2462		18.50	18.33
	802.11be20-EHT0	1	2412	MCS0	17.50	17.35
		6	2437		21.50	21.24
		11	2462		18.50	18.34
	802.11n40-HT0	3	2422	MCS0	16.00	15.88
		6	2437		19.50	19.34
		9	2452		17.50	17.23
	802.11ac40-VHT0	3	2422	MCS0	16.00	15.80
		6	2437		19.50	19.41
		9	2452		17.50	17.25
	802.11ax40-HE0	3	2422	MCS0	16.00	15.95
		6	2437		19.50	19.21
		9	2452		17.50	17.38
	802.11be40-EHT0	3	2422	MCS0	16.00	15.86
		6	2437		19.50	19.31
		9	2452		17.50	17.40

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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	21.00	20.97
		40	5200		21.50	21.49
		44	5220		21.50	21.36
		48	5240		21.50	21.27
	802.11n20-HT0	36	5180	MCS0	20.00	19.80
		40	5200		21.50	21.30
		44	5220		21.50	21.32
		48	5240		21.50	21.37
	802.11ac20-VHT0	36	5180	MCS0	20.00	19.84
		40	5200		21.50	21.27
		44	5220		21.50	21.37
		48	5240		21.50	21.31
	802.11ax20-HE0	36	5180	MCS0	20.00	19.88
		40	5200		21.50	21.21
		44	5220		21.50	21.26
		48	5240		21.50	21.44
	802.11be20-EHT0	36	5180	MCS0	20.00	19.72
		40	5200		21.50	21.34
		44	5220		21.50	21.29
		48	5240		21.50	21.35
	802.11n40-HT0	38	5190	MCS0	19.00	18.90
		46	5230		21.00	20.84
	802.11ac40-VHT0	38	5190	MCS0	19.00	18.85
		46	5230		21.00	20.85
	802.11ax40-HE0	38	5190	MCS0	19.00	18.78
		46	5230		21.00	20.92
	802.11be40-EHT0	38	5190	MCS0	19.00	18.78
		46	5230		21.00	20.93
	802.11ac80-VHT0	42	5210	MCS0	17.50	17.44
	802.11ax80-HE0	42	5210	MCS0	17.50	17.21
	802.11be80-EHT0	42	5210	MCS0	17.50	17.34
	802.11ac160-VHT0	50	5250	MCS0	15.00	14.94
	802.11ax160-HE0	50	5250	MCS0	15.00	14.87
	802.11be160-EHT0	50	5250	MCS0	15.00	14.84

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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	21.50	21.48
		56	5280		21.50	21.49
		60	5300		21.50	21.37
		64	5320		21.00	20.91
	802.11n20-HT0	52	5260	MCS0	21.50	21.25
		56	5280		21.50	21.30
		60	5300		21.50	21.24
		64	5320		20.00	19.66
	802.11ac20-VHT0	52	5260	MCS0	21.50	21.17
		56	5280		21.50	21.28
		60	5300		21.50	21.37
		64	5320		20.00	19.79
	802.11ax20-HE0	52	5260	MCS0	21.50	21.26
		56	5280		21.50	21.22
		60	5300		21.50	21.37
		64	5320		20.00	19.81
	802.11be20-EHT0	52	5260	MCS0	21.50	21.14
		56	5280		21.50	21.26
		60	5300		21.50	21.25
		64	5320		20.00	19.76
	802.11n40-HT0	54	5270	MCS0	21.00	20.80
		62	5310		18.50	18.34
	802.11ac40-VHT0	54	5270	MCS0	21.00	20.69
		62	5310		18.50	18.21
	802.11ax40-HE0	54	5270	MCS0	21.00	20.85
		62	5310		18.50	18.21
	802.11be40-EHT0	54	5270	MCS0	21.00	20.82
		62	5310		18.50	18.29
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.80
	802.11ax80-HE0	58	5290	MCS0	18.00	17.75
	802.11be80-EHT0	58	5290	MCS0	18.00	17.76

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Tx2						
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5.6GHz	802.11a	100	5500	6Mbps	20.50	20.31
		120	5600		21.50	21.42
		140	5700		19.00	18.79
		144	5720		21.00	20.78
	802.11n20-HT0	100	5500	MCS0	19.50	19.33
		120	5600		21.50	21.37
		140	5700		19.00	18.89
		144	5720		21.50	21.36
	802.11ac20-VHT0	100	5500	MCS0	19.50	19.35
		120	5600		21.50	21.30
		140	5700		19.00	18.93
		144	5720		21.50	21.23
	802.11ax20-HE0	100	5500	MCS0	19.50	19.33
		120	5600		21.50	21.39
		140	5700		19.00	18.82
		144	5720		21.50	21.47
	802.11be20-EHT0	100	5500	MCS0	19.50	19.30
		120	5600		21.50	21.27
		140	5700		19.00	18.82
		144	5720		21.50	21.32
	802.11n40-HT0	102	5510	MCS0	18.00	17.99
		118	5590		21.00	20.99
		134	5670		20.00	19.97
		142	5710		21.50	21.48
	802.11ac40-VHT0	102	5510	MCS0	18.00	17.79
		118	5590		21.00	20.89
		134	5670		20.00	19.89
		142	5710		21.50	21.45
	802.11ax40-HE0	102	5510	MCS0	18.00	17.74
		118	5590		21.00	20.79
		134	5670		20.00	19.76
		142	5710		21.50	21.22
	802.11be40-EHT0	102	5510	MCS0	18.00	17.89
		118	5590		21.00	20.85
		134	5670		20.00	19.81
		142	5710		21.50	21.38
	802.11ac80-VHT0	106	5530	MCS0	18.00	17.79
		122	5610		20.50	20.31
		138	5690		21.00	20.79
	802.11ax80-HE0	106	5530	MCS0	18.00	17.84
		122	5610		20.50	20.42
		138	5690		21.00	20.78
	802.11be80-EHT0	106	5530	MCS0	18.00	17.83
		122	5610		20.50	20.38
		138	5690		21.00	20.73
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.87
	802.11ax160-HE0	114	5570	MCS0	16.00	15.86
	802.11be160-EHT0	114	5570	MCS0	16.00	15.78

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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	22.50	22.46
		157	5785		22.50	22.48
		165	5825		22.50	22.49
	802.11n20-HT0	149	5745	MCS0	22.50	22.28
		157	5785		22.50	22.38
		165	5825		22.50	22.30
	802.11ac20-VHT0	149	5745	MCS0	22.50	22.44
		157	5785		22.50	22.41
		165	5825		22.50	22.32
	802.11ax20-HE0	149	5745	MCS0	22.50	22.22
		157	5785		22.50	22.25
		165	5825		22.50	22.29
	802.11be20-EHT0	149	5745	MCS0	22.50	22.26
		157	5785		22.50	22.36
		165	5825		22.50	22.48
	802.11n40-HT0	151	5755	MCS0	21.50	21.36
		159	5795		21.50	21.29
	802.11ac40-VHT0	151	5755	MCS0	21.50	21.29
		159	5795		21.50	21.42
	802.11ax40-HE0	151	5755	MCS0	21.50	21.38
		159	5795		21.50	21.34
	802.11be40-EHT0	151	5755	MCS0	21.50	21.32
		159	5795		21.50	21.43
	802.11ac80-VHT0	155	5775	MCS0	20.50	20.35
	802.11ax80-HE0	155	5775	MCS0	20.50	20.29
	802.11be80-EHT0	155	5775	MCS0	20.50	20.42

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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	20.00	19.80
		173	5865		20.00	19.86
		177	5885		20.00	19.85
	802.11n20-HT0	169	5845	MCS0	20.00	19.76
		173	5865		20.00	19.86
		177	5885		18.00	17.93
	802.11ac20-VHT0	169	5845	MCS0	20.00	19.80
		173	5865		20.00	19.91
		177	5885		18.00	17.81
	802.11ax20-HE0	169	5845	MCS0	20.00	19.70
		173	5865		20.00	19.78
		177	5885		18.00	17.90
	802.11be20-EHT0	169	5845	MCS0	20.00	19.84
		173	5865		20.00	19.88
		177	5885		18.00	17.71
	802.11n40-HT0	167	5835	MCS0	21.50	21.46
		175	5875		21.50	21.49
	802.11ac40-VHT0	167	5835	MCS0	21.50	21.42
		175	5875		21.50	21.31
	802.11ax40-HE0	167	5835	MCS0	21.50	21.34
		175	5875		21.50	21.27
	802.11be40-EHT0	167	5835	MCS0	21.50	21.37
		175	5875		21.50	21.45
	802.11ac80-VHT0	171	5855	MCS0	21.00	20.89
	802.11ax80-HE0	171	5855	MCS0	21.00	20.87
	802.11be80-EHT0	171	5855	MCS0	21.00	20.80
	802.11ac160-VHT0	163	5815	MCS0	18.50	18.29
	802.11ax160-HE0	163	5815	MCS0	18.50	18.41
	802.11be160-EHT0	163	5815	MCS0	18.50	18.36

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7.2 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	16.50	16.27
		45	6175		16.50	16.36
		93	6415		16.50	16.36
	802.11ax20-HE0	1	5955	MCS0	16.50	16.26
		45	6175		16.50	16.28
		93	6415		16.50	16.23
	802.11be20-EHT0	1	5955	MCS0	16.50	16.37
		45	6175		16.50	16.31
		93	6415		16.50	16.40
	802.11ax40-HE0	3	5965	MCS0	16.50	16.39
		43	6165		16.50	16.33
		91	6405		16.50	16.30
	802.11be40-EHT0	3	5965	MCS0	16.50	16.24
		43	6165		16.50	16.33
		91	6405		16.50	16.33
	802.11ax80-HE0	7	5985	MCS0	16.50	16.30
		39	6145		16.50	16.29
		87	6385		16.50	16.43
	802.11be80-EHT0	7	5985	MCS0	16.50	16.42
		39	6145		16.50	16.41
		87	6385		16.50	16.35
	802.11ax160-HE0	15	6025	MCS0	16.50	16.46
		47	6185		16.50	16.48
		79	6345		16.50	16.49
	802.11be160-EHT0	15	6025	MCS0	16.50	16.36
		47	6185		16.50	16.33
		79	6345		16.50	16.32

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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	7.00	6.88
		105	6475		7.00	6.95
		113	6515		7.00	6.84
	802.11ax20-HE0	97	6435	MCS0	7.50	7.25
		105	6475		7.50	7.28
		113	6515		7.50	7.41
	802.11be20-EHT0	97	6435	MCS0	7.50	7.32
		105	6475		7.50	7.39
		113	6515		7.50	7.21
	802.11ax40-HE0	99	6445	MCS0	10.00	9.84
		107	6485		10.00	9.81
	802.11be40-EHT0	99	6445	MCS0	10.00	9.74
		107	6485		10.00	9.79
	802.11ax80-HE0	103	6465	MCS0	13.00	12.93
		119	6545		12.50	12.28
	802.11be80-EHT0	103	6465	MCS0	13.00	12.82
		119	6545		12.50	12.41
	802.11ax160-HE0	111	6505	MCS0	15.50	15.33
	802.11be160-EHT0	111	6505	MCS0	15.50	15.28

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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	16.50	16.34
		149	6695		16.50	16.30
		181	6855		16.50	16.37
	802.11ax20-HE0	117	6535	MCS0	16.50	16.39
		149	6695		16.50	16.40
		181	6855		16.50	16.29
	802.11be20-EHT0	117	6535	MCS0	16.50	16.30
		149	6695		16.50	16.40
		181	6855		16.50	16.45
	802.11ax40-HE0	115	6525	MCS0	9.50	9.11
		147	6685		16.50	16.20
		179	6845		16.50	16.43
	802.11be40-EHT0	115	6525	MCS0	9.50	9.21
		147	6685		16.50	16.28
		179	6845		16.50	16.30
	802.11ax80-HE0	135	6625	MCS0	16.50	16.42
		151	6705		16.50	16.33
		167	6785		16.50	16.27
	802.11be80-EHT0	135	6625	MCS0	16.50	16.31
		151	6705		16.50	16.36
		167	6785		16.50	16.33
	802.11ax160-HE0	143	6665	MCS0	16.50	16.42
		175	6825		15.00	14.98
	802.11be160-EHT0	143	6665	MCS0	16.50	16.25
		175	6825		15.00	14.76

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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	7.00	6.78
		209	6995		7.50	7.28
		233	7115		7.50	7.38
	802.11ax20-HE0	185	6875	MCS0	7.00	6.84
		209	6995		7.50	7.24
		233	7115		7.50	7.37
	802.11be20-EHT0	185	6875	MCS0	7.00	6.84
		209	6995		7.50	7.42
		233	7115		7.50	7.28
	802.11ax40-HE0	187	6885	MCS0	10.00	9.91
		227	7085		10.00	9.76
	802.11be40-EHT0	187	6885	MCS0	10.00	9.92
		227	7085		10.00	9.79
	802.11ax80-HE0	183	6865	MCS0	12.50	12.27
		199	6945		13.00	12.90
		215	7025		13.00	12.81
	802.11be80-EHT0	183	6865	MCS0	12.50	12.38
		199	6945		13.00	12.90
		215	7025		13.00	12.88
	802.11ax160-HE0	207	6985	MCS0	15.50	15.34
	802.11be160-EHT0	207	6985	MCS0	15.50	15.38

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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	16.50	16.29
		45	6175		16.50	16.31
		93	6415		16.50	16.26
	802.11ax20-HE0	1	5955	MCS0	16.50	16.42
		45	6175		16.50	16.24
		93	6415		16.50	16.27
	802.11be20-EHT0	1	5955	MCS0	16.50	16.41
		45	6175		16.50	16.34
		93	6415		16.50	16.37
	802.11ax40-HE0	3	5965	MCS0	16.50	16.42
		43	6165		16.50	16.40
		91	6405		16.50	16.43
	802.11be40-EHT0	3	5965	MCS0	16.50	16.42
		43	6165		16.50	16.31
		91	6405		16.50	16.46
	802.11ax80-HE0	7	5985	MCS0	16.50	16.28
		39	6145		16.50	16.38
		87	6385		16.50	16.36
	802.11be80-EHT0	7	5985	MCS0	16.50	16.23
		39	6145		16.50	16.43
		87	6385		16.50	16.44
	802.11ax160-HE0	15	6025	MCS0	16.50	16.49
		47	6185		16.50	16.47
		79	6345		16.50	16.43
	802.11be160-EHT0	15	6025	MCS0	16.50	16.24
		47	6185		16.50	16.33
		79	6345		16.50	16.46

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台灣檢驗科技股份有限公司

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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	7.00	6.74
		105	6475		7.00	6.88
		113	6515		7.00	6.84
	802.11ax20-HE0	97	6435	MCS0	7.50	7.43
		105	6475		7.50	7.46
		113	6515		7.50	7.31
	802.11be20-EHT0	97	6435	MCS0	7.50	7.31
		105	6475		7.50	7.30
		113	6515		7.50	7.33
	802.11ax40-HE0	99	6445	MCS0	10.00	9.88
		107	6485		10.00	9.88
	802.11be40-EHT0	99	6445	MCS0	10.00	9.87
		107	6485		10.00	9.85
	802.11ax80-HE0	103	6465	MCS0	13.00	12.82
		119	6545		12.50	12.39
	802.11be80-EHT0	103	6465	MCS0	13.00	12.80
		119	6545		12.50	12.29
	802.11ax160-HE0	111	6505	MCS0	15.50	15.49
	802.11be160-EHT0	111	6505	MCS0	15.50	15.33

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11a	117	6535	6Mbps	16.50	16.42
		149	6695		16.50	16.40
		181	6855		16.50	16.40
	802.11ax20-HE0	117	6535	MCS0	16.50	16.34
		149	6695		16.50	16.36
		181	6855		16.50	16.31
	802.11be20-EHT0	117	6535	MCS0	16.50	16.31
		149	6695		16.50	16.30
		181	6855		16.50	16.43
	802.11ax40-HE0	115	6525	MCS0	9.50	9.13
		147	6685		16.50	16.25
		179	6845		16.50	16.32
	802.11be40-EHT0	115	6525	MCS0	9.50	9.24
		147	6685		16.50	16.42
		179	6845		16.50	16.30
	802.11ax80-HE0	135	6625	MCS0	16.50	16.37
		151	6705		16.50	16.40
		167	6785		16.50	16.29
	802.11be80-EHT0	135	6625	MCS0	16.50	16.42
		151	6705		16.50	16.31
		167	6785		16.50	16.31
	802.11ax160-HE0	143	6665	MCS0	16.50	16.49
		175	6825		15.00	14.96
	802.11be160-EHT0	143	6665	MCS0	16.50	16.39
		175	6825		15.00	14.86

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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	7.00	6.83
		209	6995		7.50	7.37
		233	7115		7.50	7.35
	802.11ax20-HE0	185	6875	MCS0	7.00	6.84
		209	6995		7.50	7.33
		233	7115		7.50	7.29
	802.11be20-EHT0	185	6875	MCS0	7.00	6.88
		209	6995		7.50	7.39
		233	7115		7.50	7.27
	802.11ax40-HE0	187	6885	MCS0	10.00	9.74
		227	7085		10.00	9.87
	802.11be40-EHT0	187	6885	MCS0	10.00	9.85
		227	7085		10.00	9.79
	802.11ax80-HE0	183	6865	MCS0	12.50	12.35
		199	6945		13.00	12.75
		215	7025		13.00	12.83
	802.11be80-EHT0	183	6865	MCS0	12.50	12.34
		199	6945		13.00	12.76
		215	7025		13.00	12.88
	802.11ax160-HE0	207	6985	MCS0	15.50	15.46
	802.11be160-EHT0	207	6985	MCS0	15.50	15.24

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7.3 Bluetooth

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	11.50	10.88	8.50	8.46	8.50	8.35
	CH 39	2441		10.37		7.89		7.87
	CH 78	2480		10.23		7.78		7.67

7.4 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	11.5	10.43
	CH 19	2440		10.02
	CH 39	2480		9.74
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	11.5	10.17
	CH 19	2440		9.78
	CH 39	2480		9.29

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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

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	Bottom Surface	0	1	2412	22.50	22.49	1.03	100.23%	0.293	0.301	-
WLAN 802.11b	Tx1	Bottom Surface	0	6	2437	22.50	22.25	1.03	105.93%	0.296	0.322	001
WLAN 802.11b	Tx1	Bottom Surface	0	11	2462	22.50	22.48	1.03	100.46%	0.291	0.300	-
WLAN 802.11b	Tx1	Bottom Surface*	0	6	2437	22.50	22.25	1.03	105.93%	0.230	0.250	-
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	Bottom Surface	0	00	2402	11.50	10.88	1.31	115.35%	0.021	0.032	002
Bluetooth(GFSK)	Tx1	Bottom Surface	0	39	2441	11.50	10.37	1.31	129.72%	0.012	0.020	-
Bluetooth(GFSK)	Tx1	Bottom Surface	0	78	2480	11.50	10.23	1.31	133.97%	0.017	0.030	-
Bluetooth(GFSK)	Tx1	Bottom Surface*	0	0	2402	11.50	10.88	1.31	115.35%	0.010	0.015	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.2G	Tx1	Bottom Surface	0	36	5180	21.00	20.99	1.04	100.23%	0.338	0.351	-
WLAN 802.11a 5.2G	Tx1	Bottom Surface	0	40	5200	21.50	21.49	1.04	100.23%	0.268	0.278	-
WLAN 802.11a 5.2G	Tx1	Bottom Surface	0	44	5220	21.50	21.27	1.04	105.44%	0.368	0.402	-
WLAN 802.11a 5.2G	Tx1	Bottom Surface	0	48	5240	21.50	21.32	1.04	104.23%	0.375	0.405	003
WLAN 802.11a 5.2G	Tx1	Bottom Surface*	0	48	5240	21.50	21.32	1.04	104.23%	0.359	0.387	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.3G	Tx1	Bottom Surface	0	52	5260	21.50	21.48	1.04	100.46%	0.433	0.450	004
WLAN 802.11a 5.3G	Tx1	Bottom Surface	0	56	5280	21.50	21.49	1.04	100.23%	0.427	0.443	-
WLAN 802.11a 5.3G	Tx1	Bottom Surface	0	60	5300	21.50	21.43	1.04	101.62%	0.420	0.442	-
WLAN 802.11a 5.3G	Tx1	Bottom Surface	0	64	5320	21.00	20.92	1.04	101.86%	0.386	0.407	-
WLAN 802.11a 5.3G	Tx1	Bottom Surface*	0	52	5260	21.50	21.48	1.04	100.46%	0.421	0.438	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.6G	Tx1	Bottom Surface	0	102	5510	18.00	17.89	1.04	102.57%	0.236	0.251	-
WLAN 802.11n(40M) 5.6G	Tx1	Bottom Surface	0	118	5590	21.00	20.98	1.04	100.46%	0.364	0.380	-
WLAN 802.11n(40M) 5.6G	Tx1	Bottom Surface	0	134	5670	20.00	19.97	1.04	100.69%	0.364	0.381	-
WLAN 802.11n(40M) 5.6G	Tx1	Bottom Surface	0	142	5710	21.50	21.49	1.04	100.23%	0.375	0.391	005
WLAN 802.11n(40M) 5.6G	Tx1	Bottom Surface*	0	142	5710	21.50	21.49	1.04	100.23%	0.355	0.370	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.8G	Tx1	Bottom Surface	0	149	5745	22.50	22.49	1.04	100.23%	0.506	0.525	-
WLAN 802.11a 5.8G	Tx1	Bottom Surface	0	157	5785	22.50	22.45	1.04	101.16%	0.471	0.493	-
WLAN 802.11a 5.8G	Tx1	Bottom Surface	0	165	5825	22.50	22.36	1.04	103.28%	0.528	0.564	006
WLAN 802.11a 5.8G	Tx1	Bottom Surface*	0	165	5825	22.50	22.36	1.04	103.28%	0.492	0.526	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.9G	Tx1	Bottom Surface	0	167	5835	21.50	21.49	1.04	100.23%	0.477	0.497	007
WLAN 802.11n(40M) 5.9G	Tx1	Bottom Surface	0	175	5875	21.50	21.25	1.04	105.93%	0.425	0.468	-
WLAN 802.11n(40M) 5.9G	Tx1	Bottom Surface*	0	167	5835	21.50	21.49	1.00	100.23%	0.462	0.463	-
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	Bottom Surface	0	1	2412	22.50	22.20	1.03	107.15%	0.260	0.286	-
WLAN 802.11b	Tx2	Bottom Surface	0	6	2437	22.50	22.34	1.03	103.75%	0.246	0.262	-
WLAN 802.11b	Tx2	Bottom Surface	0	11	2462	22.50	22.19	1.03	107.40%	0.271	0.299	008
WLAN 802.11b	Tx2	Bottom Surface*	0	11	2462	22.50	22.19	1.03	107.40%	0.230	0.253	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.2G	Tx2	Bottom Surface	0	36	5180	21.00	20.97	1.04	100.69%	0.204	0.213	-
WLAN 802.11a 5.2G	Tx2	Bottom Surface	0	40	5200	21.50	21.49	1.04	100.23%	0.168	0.174	-
WLAN 802.11a 5.2G	Tx2	Bottom Surface	0	44	5220	21.50	21.36	1.04	103.28%	0.227	0.243	-
WLAN 802.11a 5.2G	Tx2	Bottom Surface	0	48	5240	21.50	21.27	1.04	105.44%	0.259	0.283	009
WLAN 802.11a 5.2G	Tx2	Bottom Surface*	0	48	5240	21.50	21.27	1.04	105.44%	0.253	0.276	-

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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.3G	Tx2	Bottom Surface	0	52	5260	21.50	21.48	1.04	100.46%	0.311	0.323	-
WLAN 802.11a 5.3G	Tx2	Bottom Surface	0	56	5280	21.50	21.49	1.04	100.23%	0.270	0.280	-
WLAN 802.11a 5.3G	Tx2	Bottom Surface	0	60	5300	21.50	21.37	1.04	103.04%	0.317	0.338	-
WLAN 802.11a 5.3G	Tx2	Bottom Surface	0	64	5320	21.00	20.91	1.04	102.09%	0.392	0.414	010
WLAN 802.11a 5.3G	Tx2	Bottom Surface*	0	64	5320	21.00	20.91	1.04	102.09%	0.351	0.371	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.6G	Tx2	Bottom Surface	0	102	5510	18.00	17.99	1.04	100.23%	0.282	0.294	-
WLAN 802.11n(40M) 5.6G	Tx2	Bottom Surface	0	118	5590	21.00	20.99	1.04	100.23%	0.449	0.468	-
WLAN 802.11n(40M) 5.6G	Tx2	Bottom Surface	0	134	5670	20.00	19.97	1.04	100.69%	0.369	0.386	-
WLAN 802.11n(40M) 5.6G	Tx2	Bottom Surface	0	142	5710	21.50	21.48	1.04	100.46%	0.470	0.491	011
WLAN 802.11n(40M) 5.6G	Tx2	Bottom Surface*	0	142	5710	21.50	21.48	1.04	100.46%	0.447	0.467	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11a 5.8G	Tx2	Bottom Surface	0	149	5745	22.50	22.46	1.04	100.93%	0.687	0.718	-
WLAN 802.11a 5.8G	Tx2	Bottom Surface	0	157	5785	22.50	22.48	1.04	100.46%	0.725	0.754	012
WLAN 802.11a 5.8G	Tx2	Bottom Surface	0	165	5825	22.50	22.49	1.04	100.23%	0.660	0.685	-
WLAN 802.11a 5.8G	Tx2	Bottom Surface*	0	157	5785	22.50	22.48	1.04	100.46%	0.620	0.645	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11n(40M) 5.9G	Tx2	Bottom Surface	0	167	5835	21.50	21.46	1.04	100.93%	0.266	0.279	-
WLAN 802.11n(40M) 5.9G	Tx2	Bottom Surface	0	175	5875	21.50	21.49	1.04	100.23%	0.325	0.338	013
WLAN 802.11n(40M) 5.9G	Tx2	Bottom Surface*	0	175	5875	21.50	21.49	1.06	100.23%	0.319	0.339	-

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	Bottom Surface	0	15	6025	16.50	16.46	1.04	100.93%	0.222	0.233	2.00	2.101	014
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Bottom Surface	0	47	6185	16.50	16.48	1.04	100.46%	0.095	0.099	0.915	0.957	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Bottom Surface	0	79	6345	16.50	16.49	1.04	100.23%	0.102	0.106	0.948	0.989	015
U-NII-5 6.2GHz 802.11ax(160M)	Tx1	Bottom Surface*	0	15	6025	16.50	16.46	1.04	100.93%	0.188	0.198	1.69	1.776	-
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	Bottom Surface	0	111	6505	15.50	15.33	1.04	103.99%	0.073	0.079	0.639	0.692	016
U-NII-6 6.5GHz 802.11ax(160M)	Tx1	Bottom Surface*	0	111	6505	15.50	15.33	1.04	103.99%	0.068	0.074	0.595	0.644	-
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	Bottom Surface	0	143	6665	16.50	16.42	1.04	101.86%	0.061	0.065	0.465	0.493	017
U-NII-7 6.7GHz 802.11ax(160M)	Tx1	Bottom Surface	0	175	6825	15.00	14.98	1.04	100.46%	0.040	0.042	0.345	0.361	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx1	Bottom Surface*	0	143	6665	16.50	16.42	1.04	101.86%	0.058	0.062	0.442	0.469	-
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	Bottom Surface	0	207	6985	15.50	15.34	1.04	103.75%	0.056	0.060	0.484	0.523	018
U-NII-8 7.0GHz 802.11ax(160M)	Tx1	Bottom Surface*	0	207	6985	15.50	15.34	1.04	103.75%	0.050	0.054	0.432	0.467	-
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	Bottom Surface	0	15	6025	16.50	16.49	1.04	100.23%	0.214	0.223	1.81	1.889	019
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Bottom Surface	0	47	6185	16.50	16.47	1.04	100.69%	0.178	0.187	1.47	1.541	020
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Bottom Surface	0	79	6345	16.50	16.43	1.04	101.62%	0.176	0.186	1.49	1.576	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Bottom Surface*	0	15	6025	16.50	16.49	1.04	100.23%	0.163	0.170	1.38	1.440	-
U-NII-5 6.2GHz 802.11ax(160M)	Tx2	Bottom Surface*	0	47	6185	16.50	16.47	1.04	100.69%	0.102	0.107	0.843	0.884	-
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	Bottom Surface	0	111	6505	15.50	15.49	1.04	100.23%	0.130	0.136	1.06	1.106	021
U-NII-6 6.5GHz 802.11ax(160M)	Tx2	Bottom Surface*	0	111	6505	15.50	15.49	1.04	100.23%	0.106	0.111	0.866	0.904	-
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	Bottom Surface	0	143	6665	16.50	16.49	1.04	100.23%	0.124	0.129	0.977	1.019	022
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Bottom Surface	0	175	6825	15.00	14.96	1.04	100.93%	0.085	0.089	0.669	0.703	-
U-NII-7 6.7GHz 802.11ax(160M)	Tx2	Bottom Surface*	0	143	6665	16.50	16.49	1.04	100.23%	0.121	0.126	0.953	0.994	-
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	Bottom Surface	0	207	6985	15.50	15.46	1.04	100.93%	0.054	0.057	0.434	0.456	023
U-NII-8 7.0GHz 802.11ax(160M)	Tx2	Bottom Surface*	0	207	6985	15.50	15.46	1.04	100.93%	0.049	0.051	0.396	0.416	-

Note: * - Vendor2 Spot check

Note:

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

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

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8.3 Summary of PD Results

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m 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	Bottom Surface	2	15	6025	16.50	16.46	100.93%	1.04	1.55	1.210	1.970	1.120	1.824	024

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

Exposure Position		Reported SAR							Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8
		2	3	4	5	6	8	9	3+4	2+5	3+8	2+9	5+8	4+9	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	Summed	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Bottom Surface	0	0.322	0.299	0.564	0.754	0.032	0.233	0.223	0.863	1.076	0.532	0.545	0.987	0.787	1.350	0.488

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	1824	Jul/14/2025	Jul/13/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7509	May/21/2025	May/20/2026
SPEAG	E-field Probe for Near Field Application	EUmmWV4	9616	Mar/14/2025	Mar/13/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/19/2024	Mar/18/2027
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/12/2025	Aug/11/2026
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/12/2025	Aug/11/2026
SPEAG	5G Verification Source 10GHz	5G-Veri10	1070	Aug/19/2025	Aug/18/2026
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/17/2025	Feb/16/2026
R&S	FSV Signal Analyzer	FSV3013	101742	May/19/2025	May/18/2026
R&S	MXG Analog Signal Generator	SMB100A03	182012	Aug/09/2025	Aug/08/2026
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	EMC 2830P	980156	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101973	Feb/21/2025	Feb/20/2026
R&S	Power Sensor	NRP18S	109065	Sep/05/2025	Sep/04/2026
R&S	Power Meter	NRX	105651	Nov/11/2024	Nov/10/2025
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 8 mmWave V3.0.0.841	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
TECPEL	Digital thermometer	HTC-1	EC23010602	Dec/30/2024	Dec/29/2025

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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%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	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.)	4.44%	N	1	1	0.64	0.43	2.84%	1.91%	M
Liquid Conductivity (mea.)	4.68%	N	1	1	0.6	0.49	2.81%	2.29%	M
Combined standard uncertainty		RSS					12.38%	12.08%	
Expan uncertainty (95% confidence interval), K=2							24.76%	24.16%	

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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%	∞
Isotropy , Axial	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	3.71%	N	1	1	0.64	0.43	2.37%	1.60%	M
Liquid Conductivity (mea.)	4.09%	N	1	1	0.6	0.49	2.45%	2.00%	M
Combined standard uncertainty		RSS					11.92%	11.69%	
Explant uncertainty (95% confidence interval), K=2							23.83%	23.38%	

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

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

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

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

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12 SAR MEASUREMENT RESULTS

ID: 001

Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Tx1

Ambient temperature: 22.5°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	Bottom Surface, 0.00	2437.000, 6	7.39	1.72	37.783

Hardware Setup

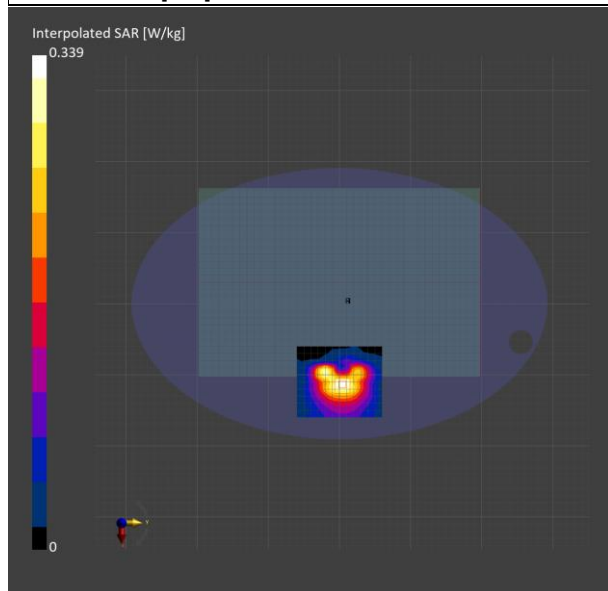
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-13	2025-10-13
psSAR1g [W/kg]	0.275	0.296
psSAR8g [W/kg]	0.164	0.192
psSAR10g [W/kg]	0.153	0.180
Power Drift [dB]	0.13	0.01
M2/M1 [%]		87.1
Dist 3dB Peak [mm]		14.0



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ID: 002

Report No. :TESA2509000721EN

Measurement Report_ Bluetooth(GFSK)_Body_Bottom Surface_CH 0_0mm_Tx1

Ambient temperature: 22.5°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	Bottom Surface, 0.00	2402.000, 0	7.39	1.69	37.854

Hardware Setup

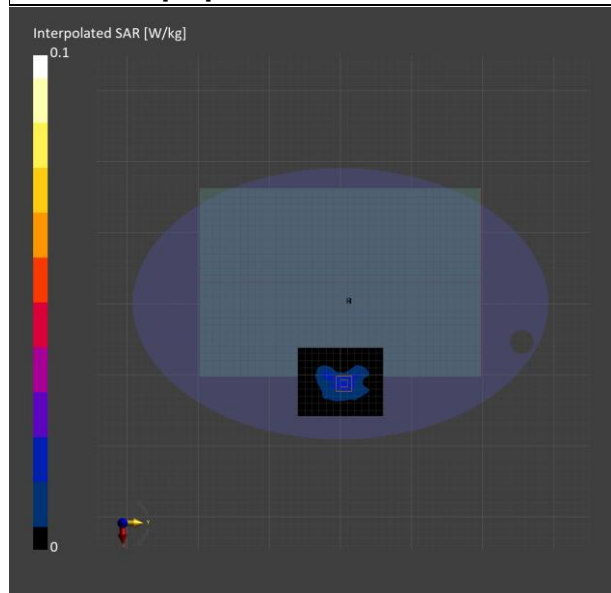
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-13	2025-10-13
psSAR1g [W/kg]	0.019	0.021
psSAR8g [W/kg]	0.011	0.012
psSAR10g [W/kg]	0.010	0.011
Power Drift [dB]	0.09	-0.18
M2/M1 [%]		82.0
Dist 3dB Peak [mm]		13.0



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ID: 003

Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11a 5.2G_Body_Bottom Surface_CH 48_0mm_Tx1

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5240.000, 48	5.75	4.89	37.55

Hardware Setup

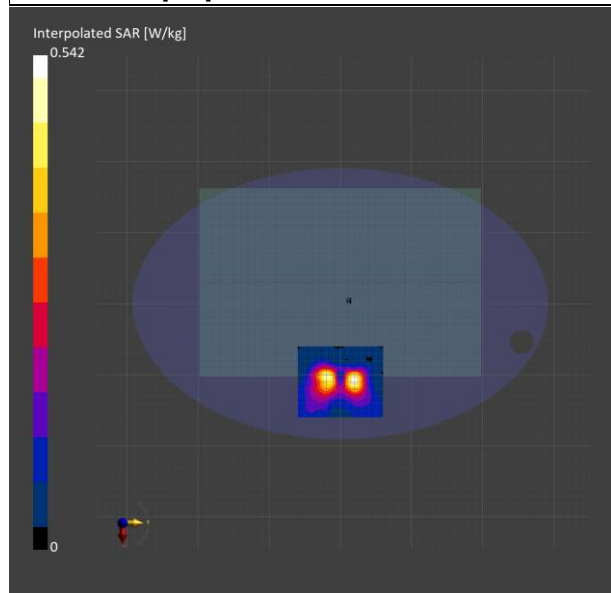
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-14	2025-10-14
psSAR1g [W/kg]	0.399	0.375
psSAR8g [W/kg]	0.176	0.203
psSAR10g [W/kg]	0.159	0.189
Power Drift [dB]	0.12	0.14
M2/M1 [%]		69.9
Dist 3dB Peak [mm]		10.4



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ID: 004

Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11a 5.3G_Body_Bottom Surface_CH 52_0mm_Tx1

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5260.000, 52	5.75	4.912	37.53

Hardware Setup

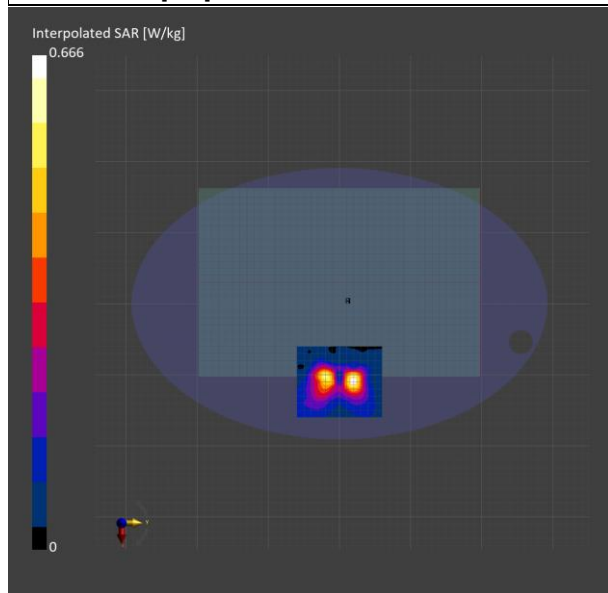
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-14	2025-10-14
psSAR1g [W/kg]	0.487	0.433
psSAR8g [W/kg]	0.213	0.229
psSAR10g [W/kg]	0.192	0.212
Power Drift [dB]	-0.06	-0.03
M2/M1 [%]		67.7
Dist 3dB Peak [mm]		10.4



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ID: 005

Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11n(40M) 5.6G_Body_Bottom Surface_CH 142_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5710.000, 142	5.35	5.132	35.365

Hardware Setup

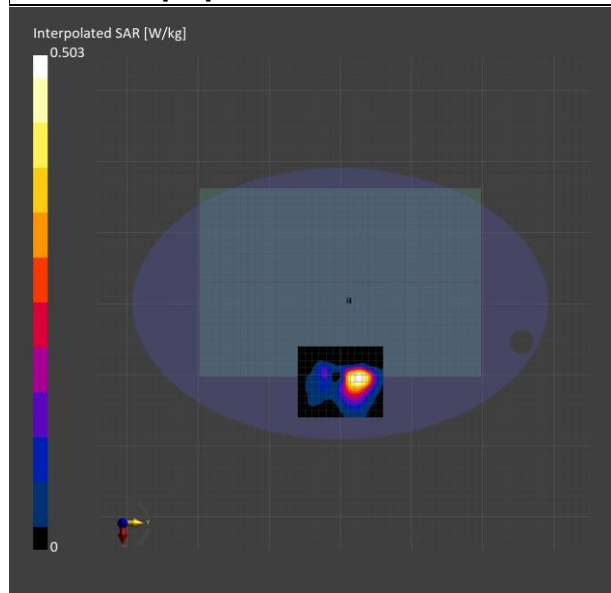
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-15	2025-10-15
psSAR1g [W/kg]	0.379	0.375
psSAR8g [W/kg]	0.177	0.174
psSAR10g [W/kg]	0.161	0.158
Power Drift [dB]	0.07	0.11
M2/M1 [%]		61.4
Dist 3dB Peak [mm]		12.3



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ID: 006

Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11a 5.8G_Body_Bottom Surface_CH 165_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5825.000, 165	4.99	5.213	34.925

Hardware Setup

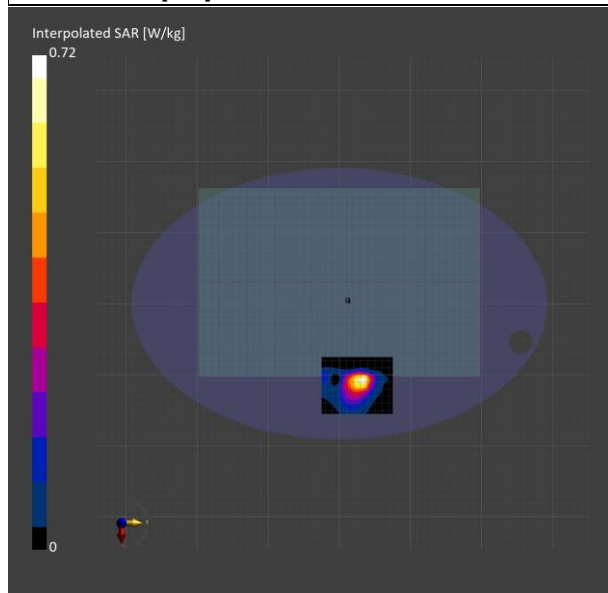
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-15	2025-10-15
psSAR1g [W/kg]	0.520	0.528
psSAR8g [W/kg]	0.225	0.223
psSAR10g [W/kg]	0.203	0.200
Power Drift [dB]	-0.04	-0.19
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		10.9



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ID: 007

Report No.: TESA2509000721EN

Measurement Report_WLAN 802.11n(40M) 5.9G_Body_Bottom Surface_CH 167_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5835.000, 167	4.99	5.222	34.92

Hardware Setup

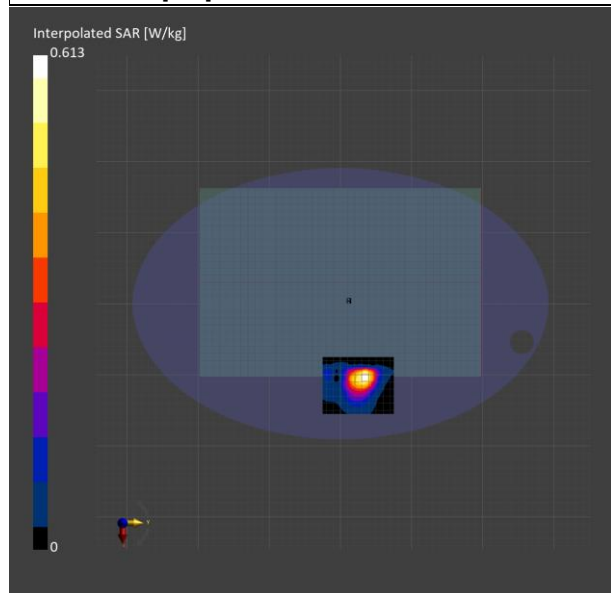
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-15	2025-10-15
psSAR1g [W/kg]	0.461	0.477
psSAR8g [W/kg]	0.204	0.202
psSAR10g [W/kg]	0.185	0.181
Power Drift [dB]	-0.02	-0.04
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		9.2



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ID: 008

Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Tx2

Ambient temperature: 22.5°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	Bottom Surface, 0.00	2462.000, 11	7.39	1.742	37.731

Hardware Setup

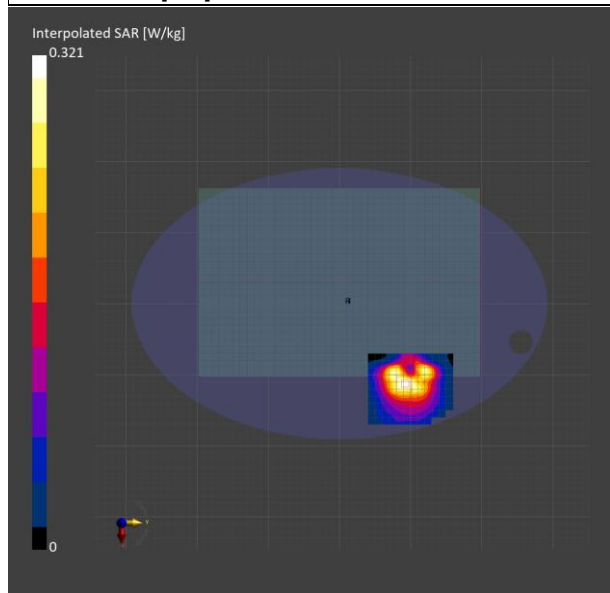
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-13	2025-10-13
psSAR1g [W/kg]	0.260	0.271
psSAR8g [W/kg]	0.156	0.172
psSAR10g [W/kg]	0.145	0.160
Power Drift [dB]	0.15	-0.05
M2/M1 [%]		84.5
Dist 3dB Peak [mm]		13.0



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ID: 009

Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11a 5.2G_Body_Bottom Surface_CH 48_0mm_Tx2

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5240.000, 48	5.75	4.89	37.55

Hardware Setup

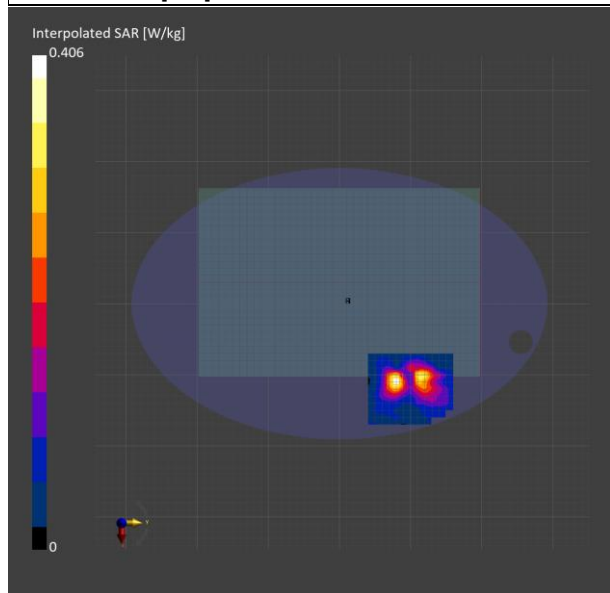
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-14	2025-10-14
psSAR1g [W/kg]	0.290	0.259
psSAR8g [W/kg]	0.125	0.132
psSAR10g [W/kg]	0.112	0.122
Power Drift [dB]	0.06	0.16
M2/M1 [%]		68.8
Dist 3dB Peak [mm]		10.5



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Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11a 5.3G_Body_Bottom Surface_CH 64_0mm_Tx2

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5320.000, 64	5.75	4.964	37.455

Hardware Setup

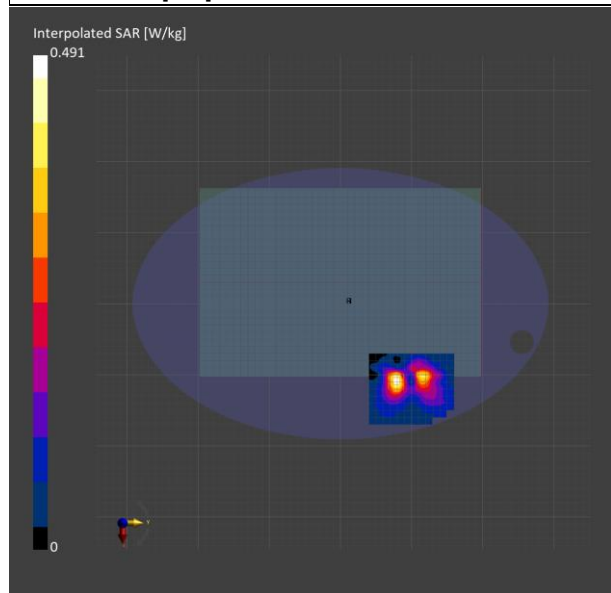
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-14	2025-10-14
psSAR1g [W/kg]	0.356	0.392
psSAR8g [W/kg]	0.153	0.191
psSAR10g [W/kg]	0.137	0.175
Power Drift [dB]	0.05	0.04
M2/M1 [%]		67.7
Dist 3dB Peak [mm]		9.7



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ID: 011

Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11n(40M) 5.6G_Body_Bottom Surface_CH 142_0mm_Tx2

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5710.000, 142	5.35	5.132	35.365

Hardware Setup

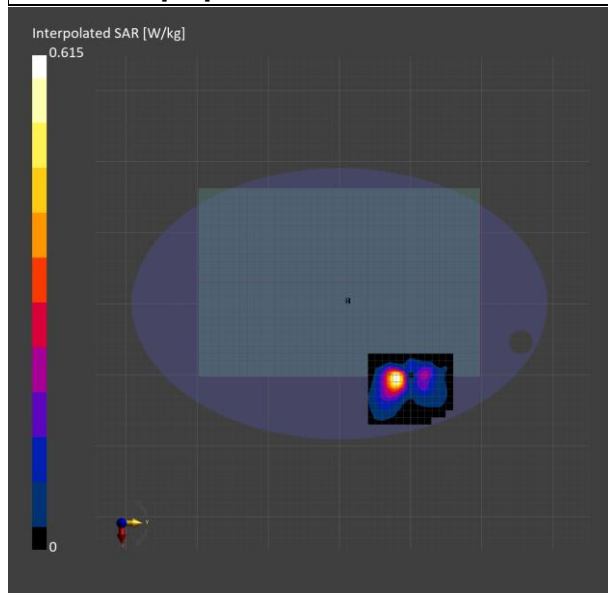
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-15	2025-10-15
psSAR1g [W/kg]	0.460	0.470
psSAR8g [W/kg]	0.195	0.194
psSAR10g [W/kg]	0.174	0.171
Power Drift [dB]	-0.03	-0.09
M2/M1 [%]		60.3
Dist 3dB Peak [mm]		9.9



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Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11a 5.8G_Body_Bottom Surface_CH 157_0mm_Tx2

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5785.000, 157	5.35	5.21	35.28

Hardware Setup

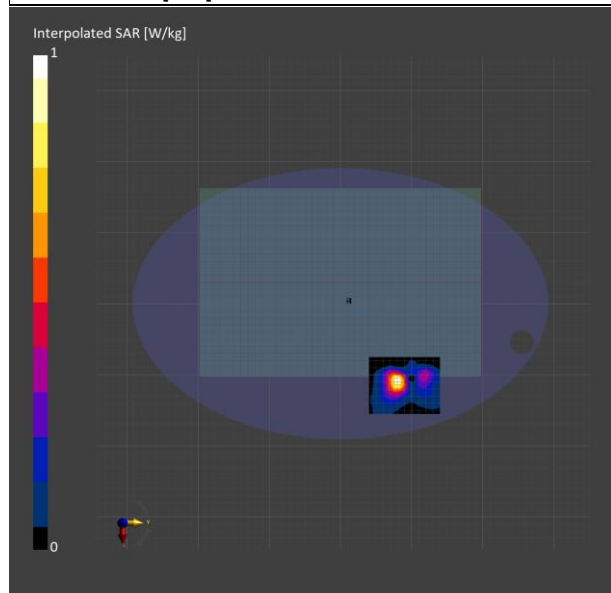
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 100.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-15	2025-10-15
psSAR1g [W/kg]	0.727	0.725
psSAR8g [W/kg]	0.301	0.296
psSAR10g [W/kg]	0.269	0.263
Power Drift [dB]	0.05	0.11
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		9.6



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ID: 013

Report No. :TESA2509000721EN

Measurement Report_WLAN 802.11n(40M) 5.9G_Body_Bottom Surface_CH 175_0mm_Tx2

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5875.000, 175	4.99	5.261	34.885

Hardware Setup

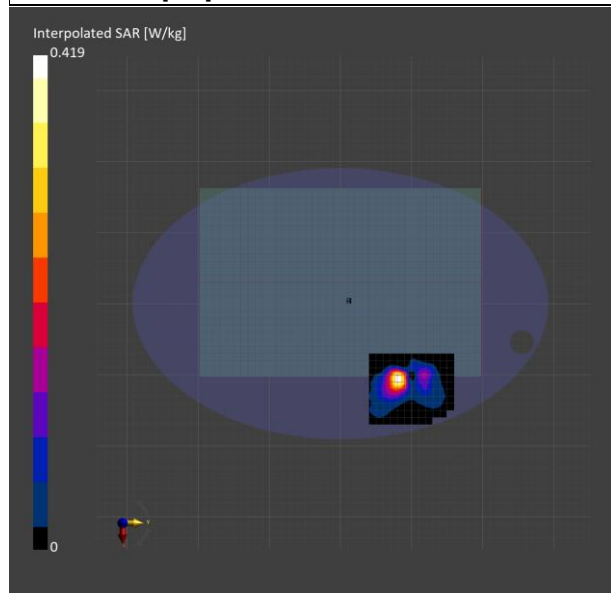
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-15	2025-10-15
psSAR1g [W/kg]	0.317	0.325
psSAR8g [W/kg]	0.132	0.131
psSAR10g [W/kg]	0.117	0.116
Power Drift [dB]	0.18	-0.13
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		9.9



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ID: 014

Report No. :TESA2509000721EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 15_0mm_Tx1

Ambient temperature: 22.7°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6025.000, 15	5.6	5.303	34.038

Hardware Setup

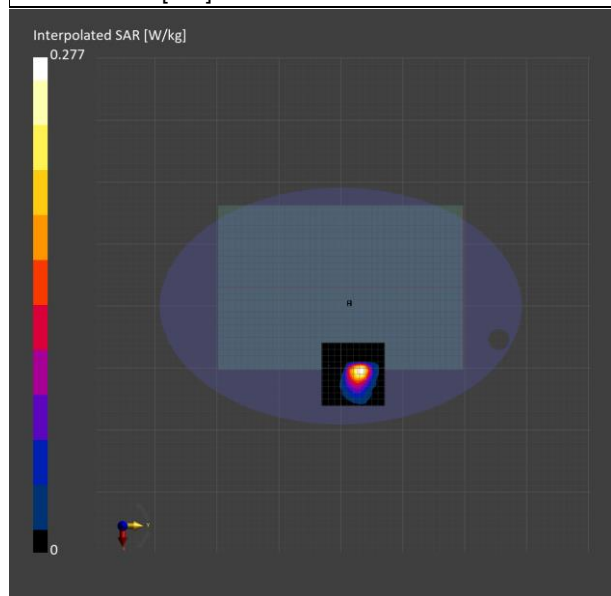
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-16	2025-10-16
psSAR1g [W/kg]	0.208	0.222
psSAR8g [W/kg]	0.091	0.100
psSAR10g [W/kg]	0.082	0.090
psPDab (4.0cm2, sq) [W/m2]		2.00
Power Drift [dB]	0.06	0.01
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		9.1



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ID: 015

Report No. : TESA2509000721EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 79_0mm_Tx1

Ambient temperature: 22.7°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6345.000, 79	5.6	5.677	33.643

Hardware Setup

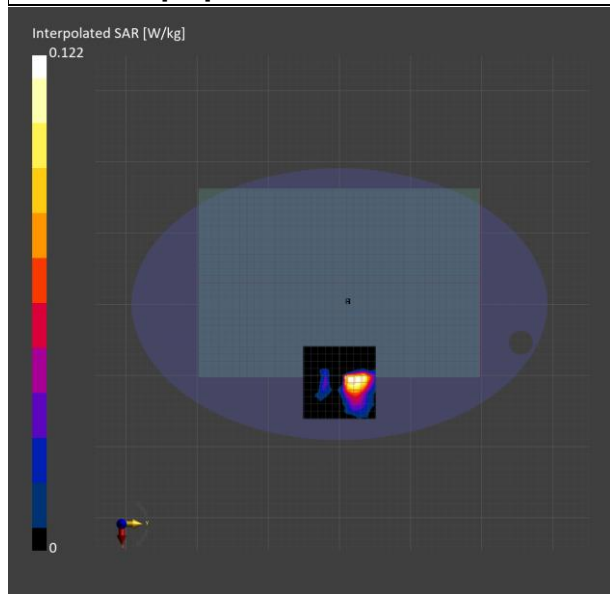
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-16	2025-10-16
psSAR1g [W/kg]	0.094	0.102
psSAR8g [W/kg]	0.043	0.047
psSAR10g [W/kg]	0.040	0.043
psPDab (4.0cm2, sq) [W/m2]		0.948
Power Drift [dB]	0.14	0.01
M2/M1 [%]		58.8
Dist 3dB Peak [mm]		8.3



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ID: 016

Report No. :TESA2509000721EN

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Tx1

Ambient temperature: 22.7°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6505.000, 111	5.6	5.856	33.445

Hardware Setup

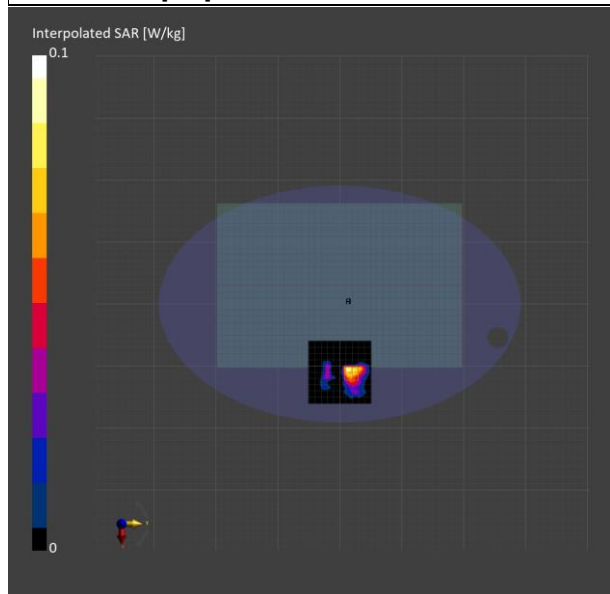
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-16	2025-10-16
psSAR1g [W/kg]	0.069	0.073
psSAR8g [W/kg]	0.029	0.032
psSAR10g [W/kg]	0.027	0.029
psPDab (4.0cm2, sq) [W/m2]		0.639
Power Drift [dB]	-0.12	-0.18
M2/M1 [%]		59.9
Dist 3dB Peak [mm]		8.3



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ID: 017

Report No. :TESA2509000721EN

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Bottom Surface_CH 143_0mm_Tx1

Ambient temperature: 22.7°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6665.000, 143	5.6	6.024	33.255

Hardware Setup

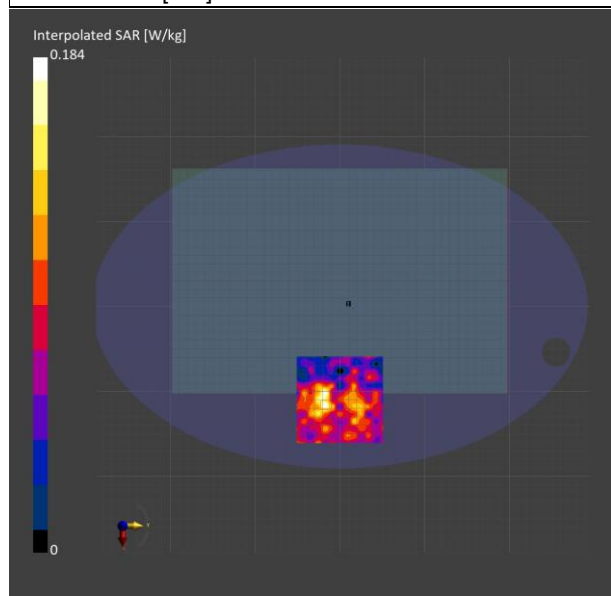
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-16	2025-10-16
psSAR1g [W/kg]	0.137	0.061
psSAR8g [W/kg]	0.062	0.023
psSAR10g [W/kg]	0.056	0.020
psPDab (4.0cm2, sq) [W/m2]		0.465
Power Drift [dB]	0.18	0.10
M2/M1 [%]		36.1
Dist 3dB Peak [mm]		7.4



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ID: 018

Report No. :TESA2509000721EN

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Bottom Surface_CH 207_0mm_Tx1

Ambient temperature: 22.1°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6985.000, 207	5.83	6.322	32.645

Hardware Setup

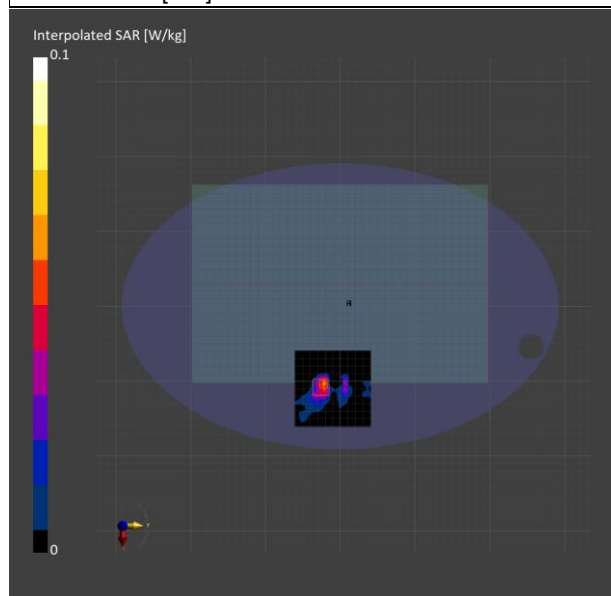
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-17	2025-10-17
psSAR1g [W/kg]	0.048	0.056
psSAR8g [W/kg]	0.019	0.024
psSAR10g [W/kg]	0.017	0.022
psPDab (4.0cm2, sq) [W/m2]		0.484
Power Drift [dB]	-0.15	0.03
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		6.7



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ID: 019

Report No. :TESA2509000721EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 15_0mm_Tx2

Ambient temperature: 22.7°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6025.000, 15	5.6	5.303	34.038

Hardware Setup

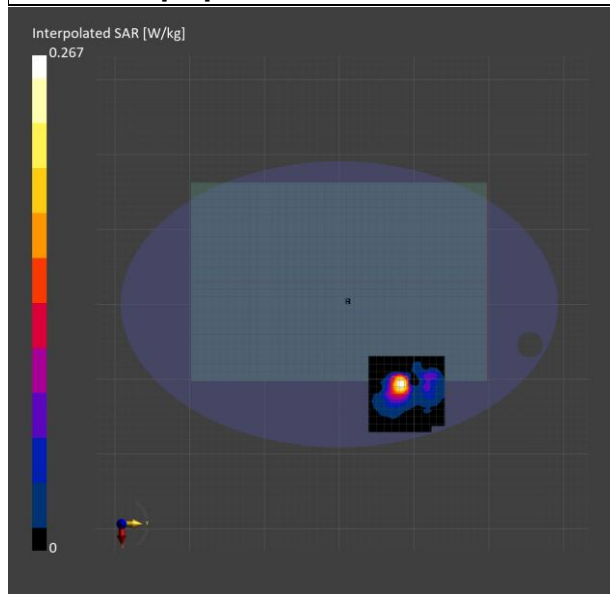
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-16	2025-10-16
psSAR1g [W/kg]	0.198	0.214
psSAR8g [W/kg]	0.081	0.090
psSAR10g [W/kg]	0.072	0.081
psPDab (4.0cm2, sq) [W/m2]		1.81
Power Drift [dB]	0.11	0.13
M2/M1 [%]		56.2
Dist 3dB Peak [mm]		8.3



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ID: 020

Report No. :TESA2509000721EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 47_0mm_Tx2

Ambient temperature: 22.7°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6185.000, 47	5.6	5.491	33.838

Hardware Setup

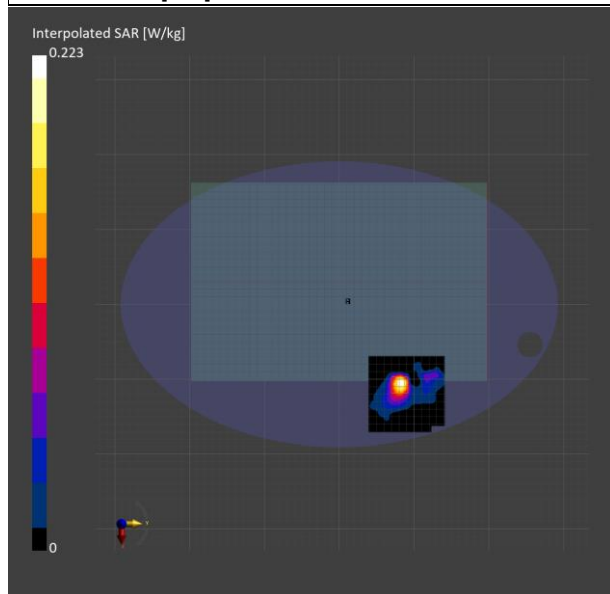
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-16	2025-10-16
psSAR1g [W/kg]	0.165	0.178
psSAR8g [W/kg]	0.067	0.073
psSAR10g [W/kg]	0.060	0.065
psPDab (4.0cm2, sq) [W/m2]		1.47
Power Drift [dB]	-0.14	-0.18
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		8.3



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ID: 021

Report No. :TESA2509000721EN

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Tx2

Ambient temperature: 22.7°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6505.000, 111	5.6	5.856	33.445

Hardware Setup

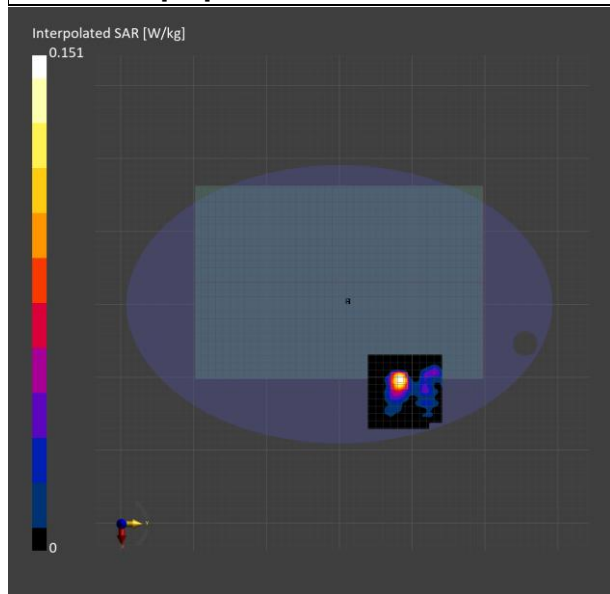
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-16	2025-10-16
psSAR1g [W/kg]	0.120	0.130
psSAR8g [W/kg]	0.048	0.053
psSAR10g [W/kg]	0.042	0.047
psPDab (4.0cm2, sq) [W/m2]		1.06
Power Drift [dB]	-0.14	0.11
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		10.3



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ID: 022

Report No. :TESA2509000721EN

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Bottom Surface_CH 143_0mm_Tx2

Ambient temperature: 22.7°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6665.000, 143	5.6	6.024	33.255

Hardware Setup

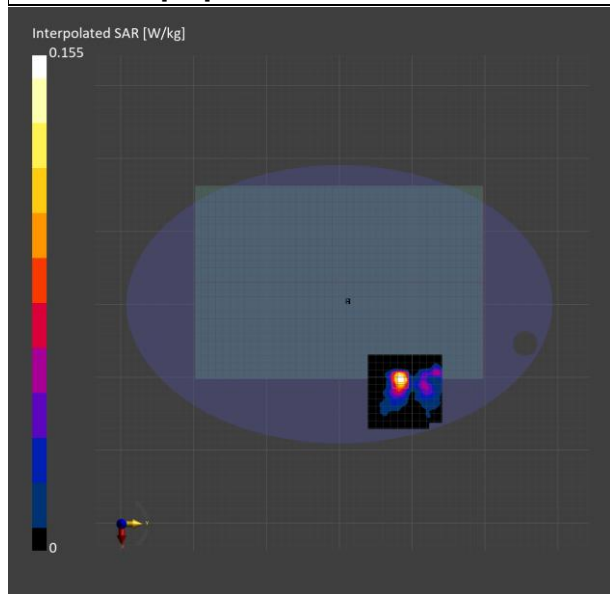
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-16	2025-10-16
psSAR1g [W/kg]	0.125	0.124
psSAR8g [W/kg]	0.048	0.049
psSAR10g [W/kg]	0.042	0.044
psPDab (4.0cm2, sq) [W/m2]		0.977
Power Drift [dB]	0.03	0.07
M2/M1 [%]		57.3
Dist 3dB Peak [mm]		7.8



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ID: 023

Report No. :TESA2509000721EN

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Bottom Surface_CH 207_0mm_Tx2

Ambient temperature: 22.1°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6985.000, 207	5.83	6.322	32.645

Hardware Setup

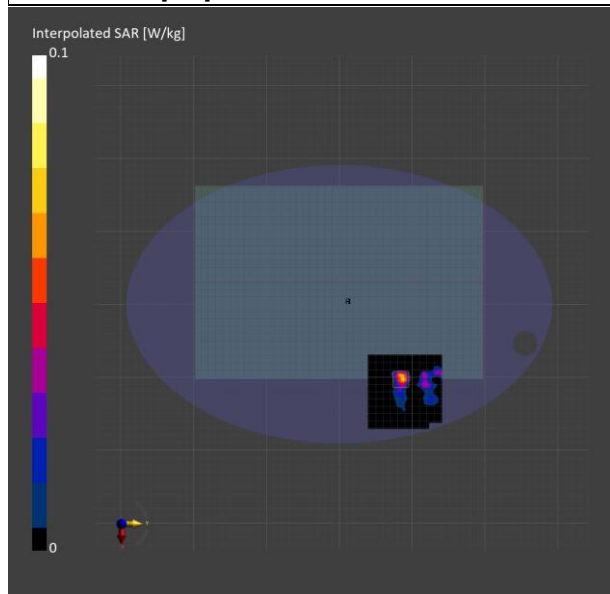
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-17	2025-10-17
psSAR1g [W/kg]	0.057	0.054
psSAR8g [W/kg]	0.019	0.022
psSAR10g [W/kg]	0.016	0.020
psPDab (4.0cm2, sq) [W/m2]		0.434
Power Drift [dB]	0.13	-0.05
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		7.1



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13 PD MEASUREMENT RESULTS

ID: 024

Report No. :TESA2509000721EN

Measurement Report_ Bottom Surface, U-NII-5, Tx1

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Bottom Surface, 2.00	1.0

Hardware Setup

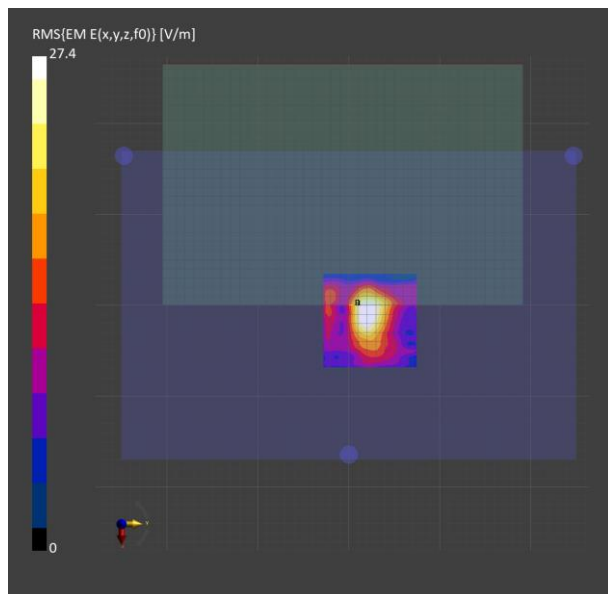
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2025-10-17
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.12
psPDtot+ [W/m ²]	1.21
psPDmod+ [W/m ²]	1.31
E _{max} [V/m]	27.4
Power Drift [dB]	0.10



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14 SAR SYSTEM CHECK RESULTS

Report No. :TESA2509000721EN

Measurement Report

Dipole_D2450-SN:727

Ambient temperature: 22.5°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, 10.00	2450.000, 50	7.39	1.728	37.75

Hardware Setup

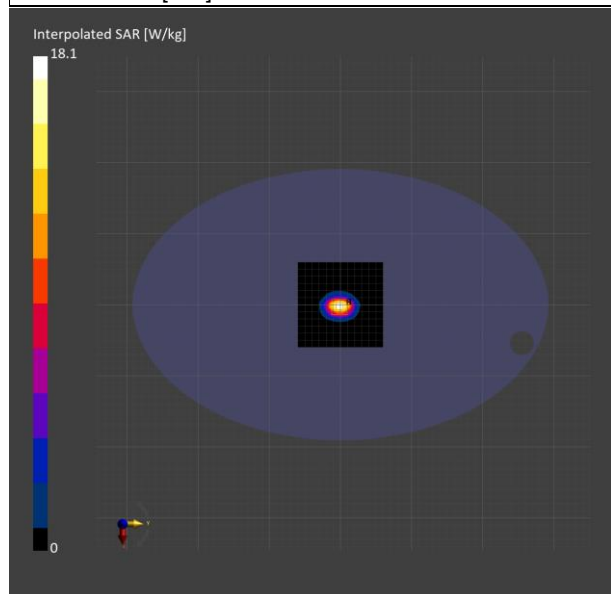
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-13	2025-10-13
psSAR1g [W/kg]	14.0	13.8
psSAR8g [W/kg]	7.32	7.16
psSAR10g [W/kg]	6.64	6.50
Power Drift [dB]	-0.35	-0.04
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		9



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Report No. :TESA2509000721EN

Measurement Report

Dipole_D5250-SN:1349

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5250.000, 25	5.75	4.903	37.535

Hardware Setup

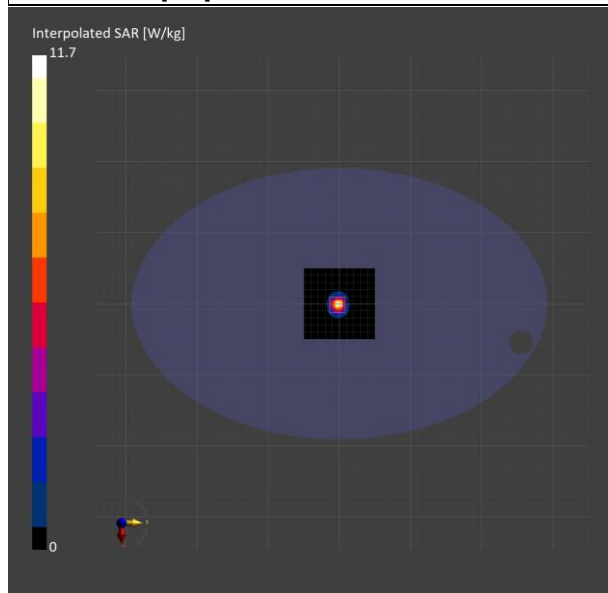
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-14	2025-10-14
psSAR1g [W/kg]	7.41	7.91
psSAR8g [W/kg]	2.53	2.64
psSAR10g [W/kg]	2.18	2.27
Power Drift [dB]	-0.01	0.04
M2/M1 [%]		52.8
Dist 3dB Peak [mm]		7.3



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Report No. :TESA2509000721EN

Measurement Report

Dipole_D5600-SN:1349

Ambient temperature: 21.4°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5600.000, 60	5.25	5.171	36.445

Hardware Setup

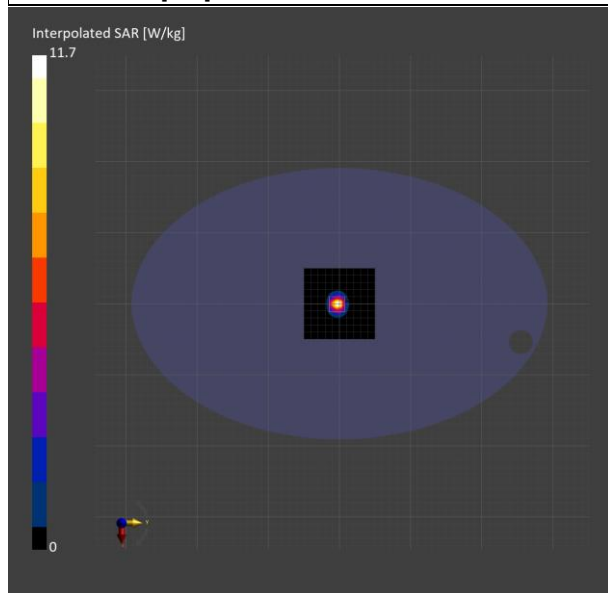
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-15	2025-10-15
psSAR1g [W/kg]	7.69	8.36
psSAR8g [W/kg]	2.63	2.77
psSAR10g [W/kg]	2.27	2.38
Power Drift [dB]	0.03	0.02
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2509000721EN

Measurement Report

Dipole_D5750-SN:1349

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5750.000, 75	5.35	5.172	35.312

Hardware Setup

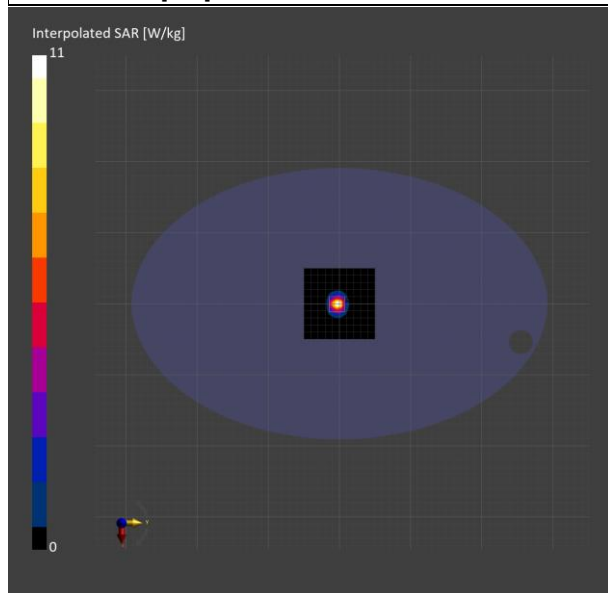
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-15	2025-10-15
psSAR1g [W/kg]	7.24	7.96
psSAR8g [W/kg]	2.47	2.62
psSAR10g [W/kg]	2.13	2.25
Power Drift [dB]	0.05	0.02
M2/M1 [%]		48.1
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2509000721EN

Measurement Report

Dipole_D5850-SN:1349

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5850.000, 85	4.99	5.234	34.9

Hardware Setup

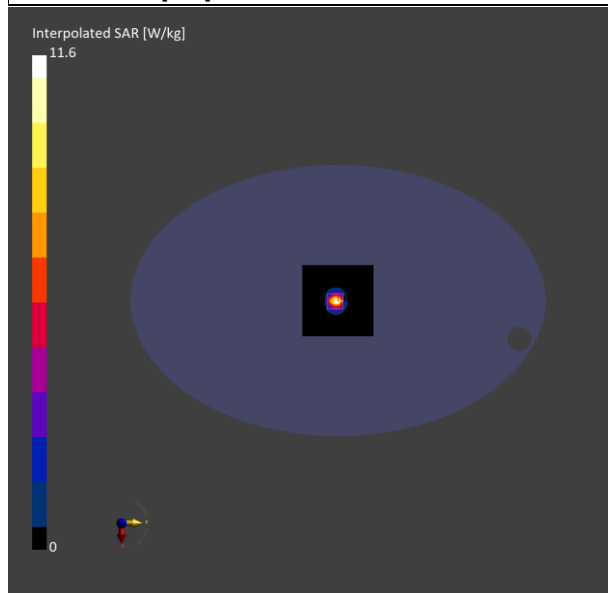
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-15	2025-10-15
psSAR1g [W/kg]	7.74	8.47
psSAR8g [W/kg]	2.63	2.79
psSAR10g [W/kg]	2.27	2.38
Power Drift [dB]	0.04	0.02
M2/M1 [%]		47.8
Dist 3dB Peak [mm]		7.4



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Report No. :TESA2509000721EN

Measurement Report

Dipole_D6500-SN:1006

Ambient temperature: 22.7°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	6500.000, 6500	5.6	5.847	33.457

Hardware Setup

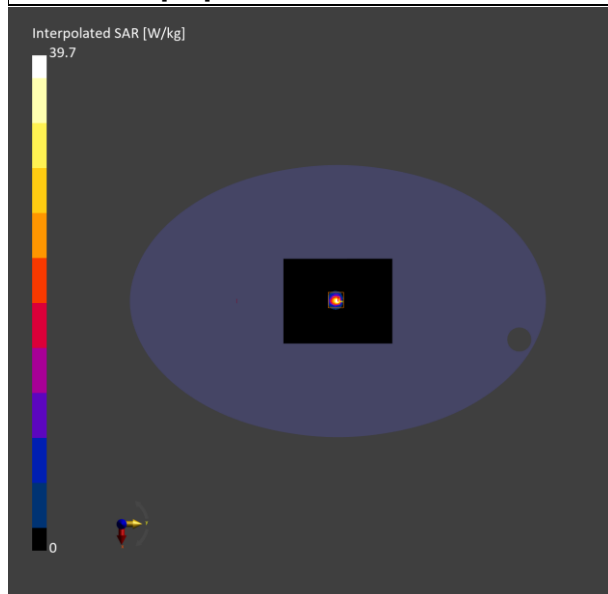
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	119.0 x 153.0	23.8 x 23.8 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-16	2025-10-16
psSAR1g [W/kg]	23.7	28.2
psSAR8g [W/kg]	6.18	6.58
psSAR10g [W/kg]	5.14	5.41
psPDab (4.0cm2, sq) [W/m2]		132
Power Drift [dB]	-0.13	0.02
M2/M1 [%]		52.1
Dist 3dB Peak [mm]		5.0



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Report No. :TESA2509000721EN

Measurement Report

Dipole_D7000-SN:1007

Ambient temperature: 22.1°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	7000.000, 7000	5.83	6.34	32.63

Hardware Setup

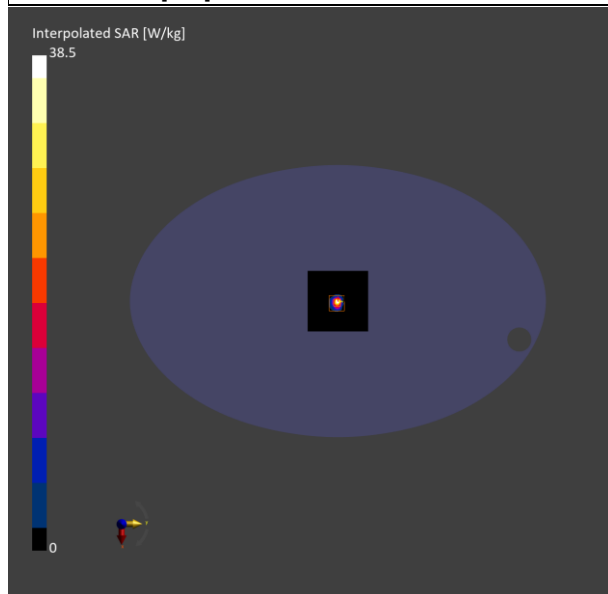
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7509, 2025-05-21	DAE4 Sn1824, 2025-07-14

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.0 x 3.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-10-17	2025-10-17
psSAR1g [W/kg]	23.0	27.2
psSAR8g [W/kg]	5.67	6.02
psSAR10g [W/kg]	4.70	4.95
psPDab (4.0cm2, sq) [W/m2]		120
Power Drift [dB]	0.03	0.08
M2/M1 [%]		50.1
Dist 3dB Peak [mm]		4.7



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15 PD SYSTEM CHECK RESULTS

Report No. :TESA2509000721EN

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

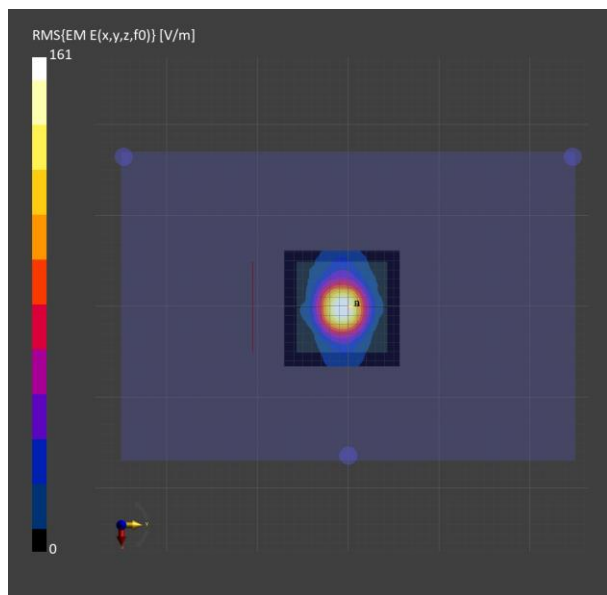
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2025-03-14	DAE4 Sn1824, 2025-07-14

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

Measurement Results

Scan Type	5G Scan
Date	2025-10-17
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	58.1
psPDtot+ [W/m ²]	58.2
psPDmod+ [W/m ²]	58.7
E _{max} [V/m]	161
Power Drift [dB]	0.05



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Refer to separated files for the following appendixes.

16.1 SAR_Appendix A Photographs

16.2 SAR_Appendix B DAE & Probe Cal. Certificate

16.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

16.4 SAR_Appendix D Dipole Extended Calibration Verification

- End of report -

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