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RF Exposure report





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

Wireless module installed in Notebook **EUT Description**

REALTEK Brand Name RTL8852CE Model No.

FG61H **Host Model Number:**

EG61xxx, EG62xxx ("x" means 20 alphanumeric, maybe Family Model No.

0-9, A-Z, -, , + or blank)

For marketing purposes only **Model Difference** Realtek Semiconductor Corp. **Applicant**

No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu,

300, Taiwan

IEEE/ANSI C95.1-1992, IEEE 1528-2013 **Standards**

FCC ID TX2-RTL8852CE **Date of EUT Receipt** Mar. 06, 2025

Date of Test(s) Mar. 06, 2025 ~ Mar. 22, 2025

Date of Issue Apr. 02, 2025

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

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

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Signed on behalf of SGS

Clerk / Cindy Chou	PM / Afu Chen	Approved By / John Yeh
Cindy Chou	afr Chen	John Teh
		Date: Apr. 02, 2025

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2503000215EN	00	Initial creation of document	Apr. 02, 2025	Cindy Chou	

Note:

- 1. The mark " * " is the revised version of the report due to comments submitted by the certification.
- Variant information of model numbers is provided by the applicant, test results of this report are 2. applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

IEC/IEEE 62209-1528:2020

SPEAG DASY6 System Handbook

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

IEC TR 63170:2018

IEC 62479:2010

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Description of EUT

EUT Description	Wireless module installed in Notebook					
Brand Name	REALTEK	REALTEK				
Model No.	RTL8852CE					
Host Brand Name	GIGABYTE					
Host Model Number:	EG61H					
Family Model No.	EG61xxx, EG62xxx ("x" means 20 alphanumeric, maybe 0-9, A-Z, -, _, + or blank)					
Model Difference	For marketing purposes only					
D 1 0 1	WLAN 802.11	Please refer to section 3				
Duty Cycle	Bluetooth	Please refer to section 3				
	802.11 b/g/n/ac/ax	2.4GHz (2400.0 – 2483.5 MHz)				
Supported radios (TX	802.11a/n/ac/ax	5.2GHz (5150.0 –5250.0 MHz 5.3GHz (5250.0 –5350.0 MHz 5.6GHz (5470.0 – 5725.0 MHz 5.8GHz (5725.0 – 5850.0 MHz 5.9GHz (5850.0 – 5895.0 MHz				
Frequency Range, MHz)	802.11ax	6.2GHz (5925.0 – 6425.0 MHz) 6.5GHz (6425.0 – 6525.0 MHz) 6.7GHz (6525.0 – 6875.0 MHz) 7.0GHz (6875.0 – 7125.0 MHz)				
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)				

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Maximum value

Summary of Maximum SAR and Power Density Value						
Mode	Highest SAR 1g	Highest APD	Highest PD			
iviode	(W/kg)	(W/m^2)	(W/m^2)			
Bluetooth(GFSK)	0.13	N/A	N/A			
2.4G WLAN	0.17	N/A	N/A			
5G WLAN	0.16	N/A	N/A			
6G WLAN	0.05	0.45	0.92			

1.4 **Antenna Information**

Vendor		INPAQ								
Antenna					Ma	ain				
Part Number				W	A-P-LE-02-303	/DC33002YS	00			
Frequency(MHz)	2400~2500	2400~2500 5150~5250 5250~5350 5470~5725 5725~5850 5850~5895 5925~6425 6425~6525 6525~6875 6875~7125								
Peak Gain (dBi)	1.92	2.47	2.68	2.64	2.91	2.94	3.69	3.39	3.74	3.50
Antenna					A	ux				
Part Number				W	A-P-LE-01-082	/DC33002YS	310			
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Peak Gain (dBi)	1.88	1.88 2.96 2.85 2.55 2.88 2.09 2.69 3.52 2.89 3.09								
Note: Antenna inform	mation is provid	led by the appl	icant.	•	•	•	•		•	•

Vendor	HIGH-TEK											
Antenna					Ma	ain						
Part Number				0A	CCN024003N	/DC33002YL	00					
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125		
Peak Gain (dBi)	1.80	1.80 2.30 2.50 2.24 2.63 2.41 3.44 2.28 2.59 2.34										
Antenna					Aı	ЛХ						
Part Number				0A	CCN024004N	/DC33002YL	10					
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125		
Peak Gain (dBi)	1.36	1.36 2.70 2.47 2.18 2.52 1.97 2.57 2.02 1.97 2.95										
Note: Antenna inforn	nation is provid	ed by the appli	icant.			Note: Antenna information is provided by the applicant.						

Note: Antenna information is provided by the applicant.

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MEASUREMENT SYSTEM

2.1 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier	
	1F, No. 8, Alley 15, Lane	SAR 2			
	120, Sec. 1, NeiHu Road, Neihu District, Taipei City,	SAR 6	TW0029	TW3702	
	11493, Taiwan.	SAR 8			
SGS Taiwan Ltd. Central RF Lab.	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	TW0000		
(TAF code 3702)		SAR 4	TW0028		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku	SAR 3	TM/0007		
District, New Taipei City, Taiwan		SAR 7	TW0027		

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

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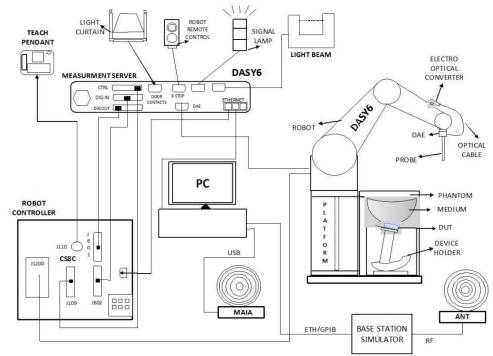


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SAR System

Block Diagram (DASY6)

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



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

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EX3DV4 E-Field Probe

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

I HANTON (E	- 1/
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	2 ± 0.2 mm
Thickness	
Filling Volume	Approx. 30 liters
Dimensions	Major axis: 600 mm
	Minor axis: 400 mm

DEVICE HOLDER

DEVICE HOL	DEIX	
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.	

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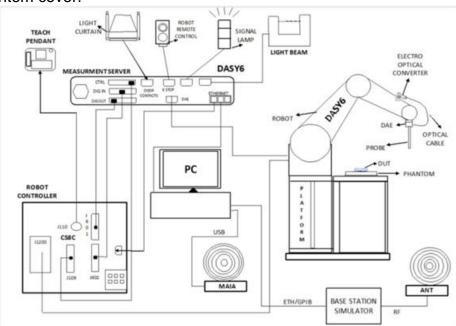


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PD system

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 pseudovector 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

台灣檢驗科技股份有限公司

750 MHz - 110 GHz

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Dynamic Range	< 20 V/m - 10,000 V/m with PRE-10 (min <			
	50 V/m - 3000 V/m)			
Position Precision	< 0.2 mm (DASY6)			
Dimensions	Overall length: 337 mm (tip: 20 mm)			
	Tip diameter: encapsulation 8 mm			
	(internal sensor < 1mm)			
	Distance from probe tip to dipole centers:			
	< 2 mm. Sensor displacement to probe's			
	calibration point: < 0.3 mm			
Applications	E-field measurements of 5G devices and			
	other mm-wave transmitters operating			
	above 10GHz in < 2 mm distance from			
	device (free-space).Power density, H-field			
	and far-field analysis using total field			
	reconstruction (cDASY6 5G module			
sensor— 1,5mm calibrated	required)			
u e e				
1				
device				
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 δ) \leq 0.05 and a relative permittivity (ϵr) \leq 1.2. High-performance RF absorbers are placed below the foam.

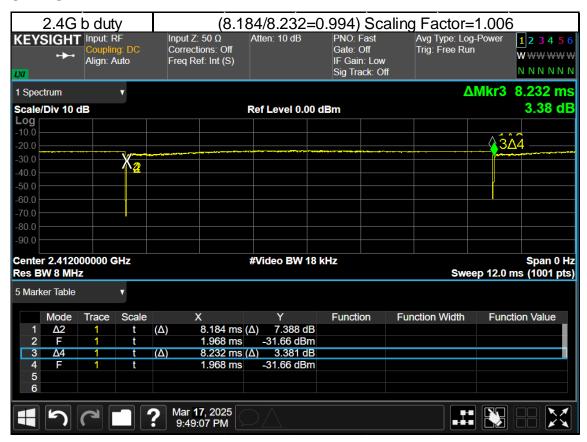
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DUTY CYCLE



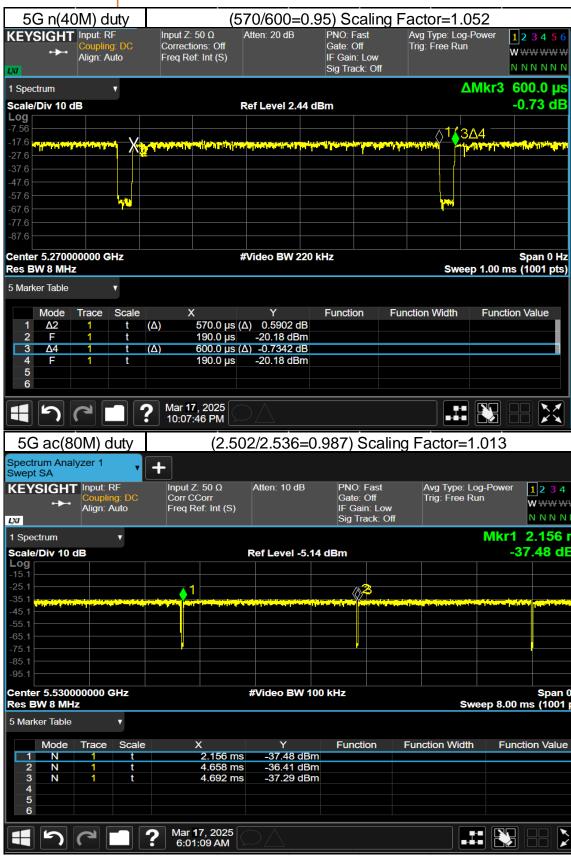
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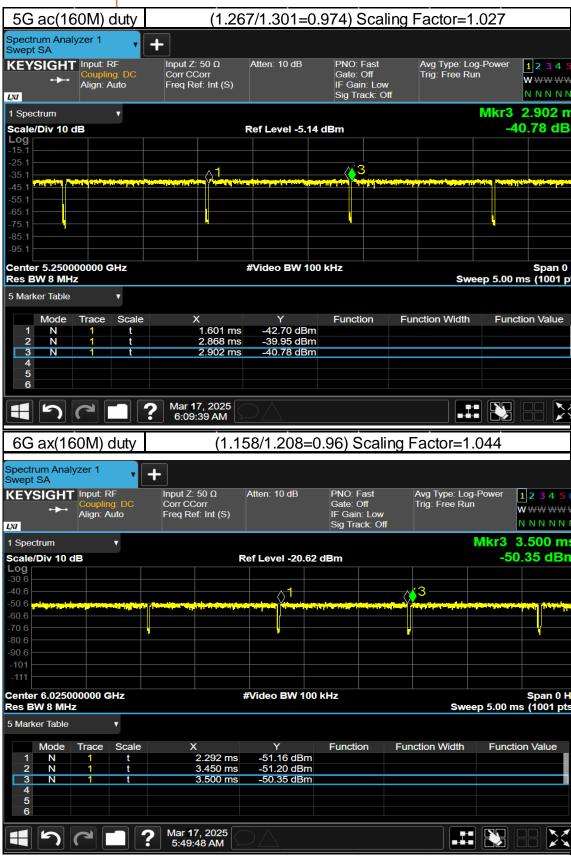
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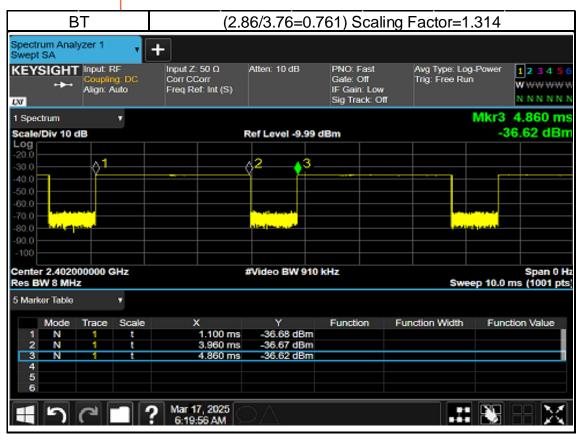
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SAR SYSTEM VERIFICATION

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 fromeference po 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 (DAK-3.5)

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

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4.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ	Measurement Date
2402	39.296	1.758	40.382	1.812	2.76%	3.05%	Mar. 17, 2025
2412	39.276	1.767	40.366	1.822	2.78%	3.11%	Mar. 17, 2025
2437	39.226	1.789	40.311	1.843	2.77%	3.03%	Mar. 17, 2025
2441	39.218	1.792	40.298	1.849	2.75%	3.17%	Mar. 17, 2025
2450	39.200	1.800	40.267	1.855	2.72%	3.06%	Mar. 17, 2025
2462	39.184	1.813	40.243	1.870	2.70%	3.16%	Mar. 17, 2025
2480	39.160	1.832	40.224	1.889	2.72%	3.11%	Mar. 17, 2025
5190	36.010	4.650	36.482	4.716	1.31%	1.43%	Mar. 18, 2025
5210	35.990	4.670	36.468	4.735	1.33%	1.39%	Mar. 18, 2025
5230	35.970	4.690	36.451	4.756	1.34%	1.41%	Mar. 18, 2025
5250	35.950	4.710	36.427	4.779	1.33%	1.46%	Mar. 18, 2025
5270	35.930	4.730	36.404	4.803	1.32%	1.54%	Mar. 18, 2025
5290	35.910	4.750	36.396	4.826	1.35%	1.60%	Mar. 18, 2025
5310	35.890	4.770	36.385	4.845	1.38%	1.57%	Mar. 18, 2025
5530	35.605	4.997	36.081	5.068	1.34%	1.43%	Mar. 18, 2025
5600	35.500	5.070	35.986	5.145	1.37%	1.48%	Mar. 18, 2025
5610	35.490	5.080	35.982	5.157	1.39%	1.52%	Mar. 18, 2025
5690	35.410	5.160	35.920	5.240	1.44%	1.55%	Mar. 18, 2025
5750	35.350	5.220	35.867	5.299	1.46%	1.51%	Mar. 18, 2025
5815	35.285	5.286	35.818	5.369	1.51%	1.57%	Mar. 18, 2025
5850	35.250	5.323	35.776	5.411	1.49%	1.66%	Mar. 18, 2025
6025	35.070	5.510	34.744	5.455	-0.93%	-0.99%	Mar. 19, 2025
6185	34.878	5.698	34.537	5.639	-0.98%	-1.04%	Mar. 19, 2025
6345	34.686	5.887	34.312	5.828	-1.08%	-1.00%	Mar. 19, 2025
6500	34.500	6.070	34.130	6.011	-1.07%	-0.97%	Mar. 19, 2025
6505	34.494	6.076	34.116	6.013	-1.10%	-1.03%	Mar. 19, 2025
6665	34.302	6.261	33.951	6.196	-1.02%	-1.04%	Mar. 19, 2025
6825	34.110	6.447	33.783	6.374	-0.96%	-1.13%	Mar. 19, 2025
6985	33.918	6.633	33.569	6.563	-1.03%	-1.05%	Mar. 19, 2025
7000	33.900	6.650	33.534	6.575	-1.08%	-1.13%	Mar. 19, 2025
6025	35.070	5.510	33.978	5.339	-3.11%	-3.09%	Mar. 20, 2025
6185	34.878	5.698	33.762	5.512	-3.20%	-3.27%	Mar. 20, 2025
6345	34.686	5.887	33.557	5.701	-3.25%	-3.16%	Mar. 20, 2025
6500	34.500	6.070	33.388	5.876	-3.22%	-3.20%	Mar. 20, 2025
6505	34.494	6.076	33.374	5.879	-3.25%	-3.24%	Mar. 20, 2025
6665	34.302	6.261	33.179	6.063	-3.27%	-3.17%	Mar. 20, 2025
6825	34.110	6.447	32.971	6.237	-3.34%	-3.26%	Mar. 20, 2025
6985	33.918	6.633	32.765	6.411	-3.40%	-3.34%	Mar. 20, 2025
7000	33.900	6.650	32.752	6.426	-3.39%	-3.37%	Mar. 20, 2025

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4.4 The composition of the tissue simulating liquid:

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

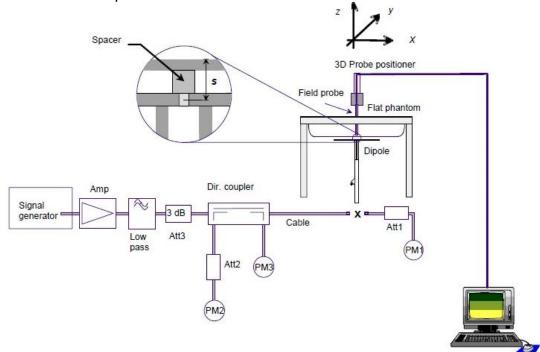
Broad-band head	SPEAG Product	Frequency range (MHz)	Main Ingredients
tissue simulating liquids	HBBL600- 10000V6	600 - 10000	Water, Oil

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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System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.7	12.6	50.4	-4.36	± 10%	Mar.17,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1349	5250	80.9	7.74	77.4	-4.33	± 10%	Mar.18,2025
D5GHzV2	1349	5600	82.4	8.33	83.3	1.09	± 10%	Mar.18,2025
D5GHzV2	1349	5750	80.8	7.77	77.7	-3.84	± 10%	Mar.18,2025
D5GHzV2	1349	5850	79.9	8.15	81.5	2.00	± 10%	Mar.18,2025
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	297	30.2	302	1.68	± 10%	Mar.19,2025
D6.5GHzV2	1006	6500	297	29.5	295	-0.67	± 10%	Mar.20,2025
D7GHzV2	1007	7000	286	27.6	276	-3.50	± 10%	Mar.19,2025
D7GHzV2	1007	7000	286	29.2	292	2.10	± 10%	Mar.20,2025

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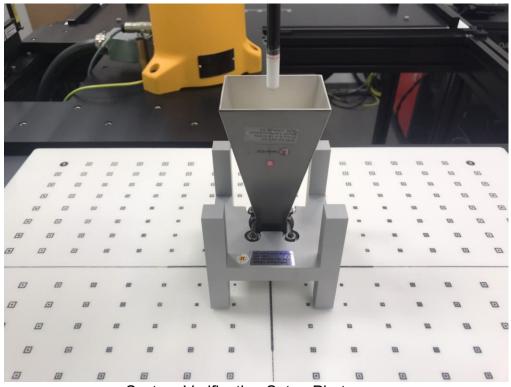
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PD SYSTEM VERIFICATION

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

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

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm^2 (W/m^2)	Target 4cm^2 (W/m^2)	Deviation (dB)	Date
10000	10000	9399	856	10	93.3	54.9	56.2	-0.10	Mar.21,2025

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TEST CONFIGURATIONS

6.1 **Test Environment**

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° C

Test Note 6.2

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

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adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR is not required for subsequent test configuration.

- WLAN 5GHz: Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.
- WLAN 6GHz: Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209- 1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance). For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.
- WLAN 6GHz: Per equipment manufacturer guidance, power density was measured at d=2mm with the grid step (0.0625λ) for determining compliance at d=2mm.
- 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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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.

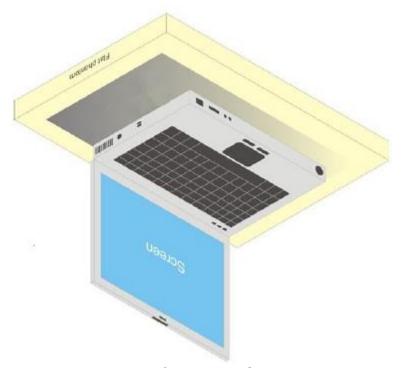


Illustration for Laptop Setup

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§ 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 spatialaverage 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 Genera	l Population/Uncontrolle	d 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

		<u> </u>	Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
	802.11b	1 6 11	2412 2437 2462	1Mbps	16.50 16.50 16.50	16.34 16.47 16.44
		12 13 1	2467 2472 2412		15.90 12.80 16.50	NR* NR* NR*
	802.11g	6 11 12	2437 2462 2467	6Mbps	16.50 16.50 14.60	NR* NR* NR*
	802.11n20-HT0	1 6 11 12	2412 2437 2462 2467	MCS0	16.50 16.50 16.50 13.00	NR* NR* NR* NR*
	802.11ac20-VHT0	13 1 6	2472 2412 2437	MCS0	10.80 16.50 16.50	NR* NR* NR*
2.45GHz		11 12 13 1	2462 2467 2472 2412		16.50 16.50 10.80 16.50	NR* NR* NR* NR*
2.430112	802.11ax20-HE0	6 11 12 13	2437 2462 2467 2472	MCS0	16.50 16.50 13.00 10.80	NR* NR* NR* NR*
	802.11n40-HT0	3 6 9 10	2422 2437 2452 2457	MCS0	16.50 16.50 16.50 16.30	NR* NR* NR* NR*
	802.11ac40-VHT0	11 3 6 9 10	2462 2422 2437 2452 2457	MCS0	15.50 16.50 16.50 16.50 16.30	NR* NR* NR* NR* NR*
	802.11ax40-HE0	11 3 6 9	2462 2422 2437 2452 2457	MCS0	15.50 16.50 16.50 16.50 16.30	NR* NR* NR* NR* NR* NR*
		11	2462]	15.50	NR*

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		N	Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		14.50	NR*
	802.11a	40	5200	6Mbps	14.50	NR*
	002.11a	44	5220	olvibps	14.50	NR*
		48	5240	1	14.50	NR*
		36	5180		14.50	NR*
	802.11n20-HT0	40	5200	MCS0	14.50	NR*
	002.11N20-H10	44	5220	MCSU	14.50	NR*
		48	5240		14.50	NR*
		36	5180	MCS0	14.50	NR*
	802.11ac20-VHT0	40	5200		14.50	NR*
		44	5220		14.50	NR*
		48	5240		14.50	NR*
5.15-5.25 GHz		36	5180		14.50	NR*
5.15-5.25 GHZ	802.11ax20-HE0	40	5200	MCS0	14.50	NR*
	602.118X20-DE0	44	5220	IVICSU	14.50	NR*
		48	5240]	14.50	NR*
	802.11n40-HT0	38	5190	MCS0	14.50	NR*
	802.11114U-F11U	46	5230	IVICSU	14.50	NR*
	902 44cc40 \/UT0	38	5190	MCCO	14.50	NR*
	802.11ac40-VHT0	46	5230	MCS0	14.50	NR*
	802.11ax40-HE0	38	5190	MCS0	14.50	NR*
	002.118X40-FEU	46	5230	IVICSU	14.50	NR*
	802.11ac80-VHT0	42	5210	MCS0	14.50	14.48
	802.11ax80-HE0	42	5210	MCS0	14.50	NR*
	802.11ac160-VHT0	50	5250	MCS0	9.00	NR*
	802.11ax160-HE0	50	5250	MCS0	9.00	NR*

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		N	Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		14.50	NR*
	802.11a	56	5280	GMbps	14.50	NR*
	602.11a	60	5300	6Mbps	14.50	NR*
		64	5320		14.50	NR*
		52	5260		14.50	NR*
	802.11n20-HT0	56	5280	MCS0	14.50	NR*
		60	5300		14.50	NR*
		64	5320		14.50	NR*
	802.11ac20-VHT0	52	5260	MCS0	14.50	NR*
		56	5280		14.50	NR*
		60	5300		14.50	NR*
5.25-5.35 GHz		64	5320		14.50	NR*
5.25-5.35 GHZ		52	5260		14.50	NR*
	000 44 5 200 1150	56	5280	MCCO	14.50	NR*
	802.11ax20-HE0	60	5300	MCS0	14.50	NR*
		64	5320		14.50	NR*
	802.11n40-HT0	54	5270	MCS0	14.50	NR*
	802.111140-F110	62	5310	IVICSU	14.50	NR*
	000 44cc40 \/\\\\	54	5270	MCCC	14.50	NR*
	802.11ac40-VHT0	62	5310	MCS0	14.50	NR*
	902 11 ov 40 LIFO	54	5270	MCS0	14.50	NR*
	802.11ax40-HE0	62	5310	IVICSU	14.50	NR*
	802.11ac80-VHT0	58	5290	MCS0	14.50	14.48
	802.11ax80-HE0	58	5290	MCS0	14.50	NR*

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			Main			
			VIGITI			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		15.00	NR*
	000.44	120	5600	0.14	15.00	NR*
	802.11a	140	5700	6Mbps	15.00	NR*
		144	5720	1	15.00	NR*
		100	5500		15.00	NR*
	000 44 00 1170	120	5600	14000	15.00	NR*
	802.11n20-HT0	140	5700	MCS0	15.00	NR*
		144	5720		15.00	NR*
		100	5500		15.00	NR*
	802.11ac20-VHT0	120	5600		15.00	NR*
		140	5700	MCS0	15.00	NR*
		144	5720	1	15.00	NR*
		100	5500		15.00	NR*
	802.11ax20-HE0	120	5600		15.00	NR*
		140	5700	MCS0	15.00	NR*
		144	5720	1	15.00	NR*
		102	5510	MCS0	15.00	NR*
		118	5590		15.00	NR*
5.6GHz	802.11n40-HT0	134	5670		15.00	NR*
		142	5710	1	15.00	NR*
		102	5510		15.00	NR*
		118	5590		15.00	NR*
	802.11ac40-VHT0	134	5670	MCS0	15.00	NR*
		142	5710	1	15.00	NR*
		102	5510		15.00	NR*
		118	5590		15.00	NR*
	802.11ax40-HE0	134	5670	MCS0	15.00	NR*
		142	5710	1	15.00	NR*
		106	5530		15.00	14.68
	802.11ac80-VHT0	122	5610	MCS0	15.00	14.92
		138	5690	1	15.00	14.99
		106	5530		15.00	NR*
	802.11ax80-HE0	122	5610	MCS0	15.00	NR*
		138	5690	1	15.00	NR*
	802.11ac160-VHT0	114	5570	MCS0	12.50	NR*
	802.11ax160-HE0	114	5570	MCS0	12.50	NR*

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			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		9.00	NR*
	802.11a	157	5785	6Mbps	9.00	NR*
		165	5825		9.00	NR*
		149	5745		9.00	NR*
	802.11n20-HT0	157	5785	MCS0	9.00	NR*
		165	5825		9.00	NR*
	802.11ac20-VHT0	149	5745	MCS0	9.00	NR*
		157	5785		9.00	NR*
		165	5825		9.00	NR*
5.8GHz		149	5745		9.00	NR*
3.00112	802.11ax20-HE0	157	5785	MCS0	9.00	NR*
		165	5825		9.00	NR*
	802.11n40-HT0	151	5755	MCS0	9.00	NR*
	002.111140-1110	159	5795	IVICSU	9.00	NR*
	802.11ac40-VHT0	151	5755	MCS0	9.00	NR*
	002.11ac40-v1110	159	5795	IVICSU	9.00	NR*
	802.11ax40-HE0	151	5755	MCS0	9.00	NR*
	002.11dX40-NEU	159	5795	IVICSU	9.00	NR*
	802.11ac80-VHT0	155	5775	MCS0	9.00	NR*
	802.11ax80-HE0	155	5775	MCS0	9.00	NR*

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	Main								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)			
		169	5845		15.00	NR*			
	802.11a	173	5865	6Mbps	15.00	NR*			
		177	5885		15.00	NR*			
	802.11n20-HT0	169	5845		15.00	NR*			
		173	5865	MCS0	15.00	NR*			
		177	5885		15.00	NR*			
		169	5845		15.00	NR*			
	802.11ac20-VHT0	173	5865	MCS0	15.00	NR*			
		177	5885		15.00	NR*			
		169	5845		15.00	NR*			
5.9GHz	802.11ax20-HE0	173	5865	MCS0	15.00	NR*			
5.9GHZ		177	5885		15.00	NR*			
	802.11n40-HT0	167	5835	MCS0	15.00	NR*			
	002.1111 4 0-1110	175	5875	MCSU	15.00	NR*			
	802.11ac40-VHT0	167	5835	MCS0	15.00	NR*			
	002.11dC40-VH10	175	5875	MCSU	15.00	NR*			
	802.11ax40-HE0	167	5835	MCS0	15.00	NR*			
	002.11ax40-11EU	175	5875	IVICSU	15.00	NR*			
	802.11ac80-VHT0	171	5855	MCS0	15.00	NR*			
	802.11ax80-HE0	171	5855	MCS0	15.00	NR*			
	802.11ac160-VHT0	163	5815	MCS0	15.00	14.92			
	802.11ax160-HE0	163	5815	MCS0	15.00	NR*			

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.50	16.33
		6	2437		16.50	16.48
		11	2462		16.50	16.42
		12	2467		15.90	NR*
		13	2472		12.80	NR*
	802.11g	1	2412	6Mbps	16.50	NR*
		6	2437		16.50	NR*
		11	2462		16.50	NR*
		12	2467		14.60	NR*
	802.11n20-HT0	1	2412	MCS0	16.50	NR*
		6	2437		16.50	NR*
		11	2462		16.50	NR*
		12	2467		13.00	NR*
		13	2472		10.80	NR*
	802.11ac20-VHT0	1	2412	MCS0	16.50	NR*
		6	2437		16.50	NR*
		11	2462		16.50	NR*
		12	2467		16.50	NR*
		13	2472		10.80	NR*
	802.11ax20-HE0	1	2412	MCS0	16.50	NR*
		6	2437		16.50	NR*
		11	2462		16.50	NR*
		12	2467		13.00	NR*
		13	2472		10.80	NR*
		3	2422	MCS0	16.50	NR*
		6	2437		16.50	NR*
	802.11n40-HT0	9	2452		16.50	NR*
		10	2457]	16.30	NR*
		11	2462		15.50	NR*
	802.11ac40-VHT0	3	2422	MCS0	16.50	NR*
		6	2437		16.50	NR*
		9	2452		16.50	NR*
		10	2457		16.30	NR*
		11	2462		15.50	NR*
		3	2422	MCS0	16.50	NR*
		6	2437		16.50	NR*
	802.11ax40-HE0	9	2452		16.50	NR*
		10	2457		16.30	NR*
		11	2462		15.50	NR*

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		17.00	NR*
	002.446	40	5200	GMbps	17.00	NR*
	802.11a	44	5220	6Mbps	17.00	NR*
		48	5240		17.00	NR*
		36	5180		17.00	NR*
	000 11×00 LITO	40	5200	MCS0	17.00	NR*
	802.11n20-HT0	44	5220	MCSU	17.00	NR*
		48	5240]	17.00	NR*
		36	5180		17.00	NR*
	802.11ac20-VHT0	40	5200	MCS0	17.00	NR*
	002.11ac20-V1110	44	5220	IVICSU	17.00	NR*
		48	5240		17.00	NR*
5.15-5.25 GHz	000 44 000 1150	36	5180		17.00	NR*
5.15-5.25 GHZ		40	5200	MCS0	17.00	NR*
	802.11ax20-HE0	44	5220	IVICSU	17.00	NR*
		48	5240		17.00	NR*
	000 11×10 LITO	38	5190	MCS0	17.00	16.93
	802.11n40-HT0	46	5230	IVICSU	17.00	16.97
	902 11cc10 \/ ITO	38	5190	MCS0	17.00	NR*
	802.11ac40-VHT0	46	5230	MCSU	17.00	NR*
	802.11ax40-HE0	38	5190	MCS0	17.00	NR*
	002.118X40-ΠΕ0	46	5230	IVICSU	17.00	NR*
	802.11ac80-VHT0	42	5210	MCS0	16.00	NR*
	802.11ax80-HE0	42	5210	MCS0	16.00	NR*
	802.11ac160-VHT0	50	5250	MCS0	9.00	NR*
	802.11ax160-HE0	50	5250	MCS0	9.00	NR*

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		17.00	NR*
	802.11a	56	5280	GMbna	17.00	NR*
	602.11a	60	5300	6Mbps	17.00	NR*
		64	5320		17.00	NR*
		52	5260		17.00	NR*
	802.11n20-HT0	56	5280	MCS0	17.00	NR*
	002.111120-1110	60	5300	IVICSU	17.00	NR*
		64	5320		17.00	NR*
		52	5260		17.00	NR*
	802.11ac20-VHT0	56	5280	MCS0	17.00	NR*
		60	5300	IVICSU	17.00	NR*
5.25-5.35 GHz		64	5320		17.00	NR*
3.23-3.33 GHZ		52	5260		17.00	NR*
	802.11ax20-HE0	56	5280	MCS0	17.00	NR*
	002.11ax20-11L0	60	5300	IVICSO	17.00	NR*
		64	5320		17.00	NR*
	802.11n40-HT0	54	5270	MCS0	17.00	16.94
	002.1111 4 0-1110	62	5310	IVICOU	17.00	16.69
	802.11ac40-VHT0	54	5270	MCS0	17.00	NR*
	002.11a040-VIII0	62	5310	IVICOU	17.00	NR*
	802.11ax40-HE0	54	5270	MCS0	17.00	NR*
	502.11aA+011L0	62	5310		17.00	NR*
	802.11ac80-VHT0	58	5290	MCS0	14.50	NR*
	802.11ax80-HE0	58	5290	MCS0	14.50	NR*

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
	802.11a	100 120 140	5500 5600 5700	6Mbps	16.50 16.50 16.00	NR* NR* NR*
	802.11n20-HT0	144 100 120 140 144	5720 5500 5600 5700 5720	MCS0	16.50 16.50 16.50 16.50 16.50	NR* NR* NR* NR* NR* NR*
	802.11ac20-VHT0	100 120 140 144	5500 5600 5700 5720	MCS0	16.50 16.50 16.50 16.50	NR* NR* NR* NR*
	802.11ax20-HE0	100 120 140 144	5500 5600 5700 5720	MCS0	16.50 16.50 16.50 16.50	NR* NR* NR* NR*
5.6GHz	802.11n40-HT0	102 118 134 142	5510 5590 5670 5710	MCS0	16.50 16.50 16.50 16.50	NR* NR* NR* NR*
	802.11ac40-VHT0	102 118 134 142	5510 5590 5670 5710	MCS0	16.50 16.50 16.50 16.50	NR* NR* NR* NR*
	802.11ax40-HE0	102 118 134 142	5510 5590 5670 5710	MCS0	16.50 16.50 16.50 16.50	NR* NR* NR* NR*
	802.11ac80-VHT0	106 122 138	5530 5610 5690	MCS0	16.50 16.50 16.50	16.43 15.93 16.48
	802.11ax80-HE0	106 122 138	5530 5610 5690	MCS0	16.50 16.50 16.50	NR* NR* NR*
	802.11ac160-VHT0 802.11ax160-HE0	114 114	5570 5570	MCS0 MCS0	12.50 12.50	NR* NR*

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		•	Aux	•		
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		9.00	NR*
	802.11a	157	5785	6Mbps	9.00	NR*
		165	5825		9.00	NR*
		149	5745		9.00	NR*
	802.11n20-HT0	157	5785	MCS0	9.00	NR*
		165	5825		9.00	NR*
		149	5745		9.00	NR*
	802.11ac20-VHT0	157	5785	MCS0	9.00	NR*
		165	5825		9.00	NR*
5.8GHz		149	5745		9.00	NR*
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	9.00	NR*
		165	5825		9.00	NR*
	802.11n40-HT0	151	5755	MCS0	9.00	NR*
	002.111140-1110	159	5795	IVICSU	9.00	NR*
	802.11ac40-VHT0	151	5755	MCS0	9.00	NR*
	002.11au4u-Vr110	159	5795	IVICSU	9.00	NR*
	802.11ax40-HE0	151	5755	MCS0	9.00	NR*
	002.11ax40-nE0	159	5795	IVICSU	9.00	NR*
	802.11ac80-VHT0	155	5775	MCS0	9.00	NR*
	802.11ax80-HE0	155	5775	MCS0	9.00	NR*

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		169	5845		16.00	NR*
	802.11a	173	5865	6Mbps	16.00	NR*
		177	5885		16.00	NR*
	802.11n20-HT0	169	5845		16.00	NR*
		173	5865	MCS0	16.00	NR*
		177	5885		16.00	NR*
		169	5845		16.00	NR*
	802.11ac20-VHT0	173	5865	MCS0	16.00	NR*
		177	5885		16.00	NR*
		169	5845		16.00	NR*
5.9GHz	802.11ax20-HE0	173	5865	MCS0	16.00	NR*
3.9GHZ		177	5885		16.00	NR*
	802.11n40-HT0	167	5835	MCS0	16.00	NR*
	002.111140-Π10	175	5875	MCSU	16.00	NR*
	802.11ac40-VHT0	167	5835	MCS0	16.00	NR*
	002.11ac40-VH10	175	5875	IVICSU	16.00	NR*
	802.11ax40-HE0	167	5835	MCS0	16.00	NR*
	002.11dX40-HEU	175	5875	IVICSU	16.00	NR*
	802.11ac80-VHT0	171	5855	MCS0	16.00	NR*
	802.11ax80-HE0	171	5855	MCS0	16.00	NR*
	802.11ac160-VHT0	163	5815	MCS0	16.00	15.97
	802.11ax160-HE0	163	5815	MCS0	16.00	NR*

^{* -}Not required

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WLAN 6GHz

			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	5955		7.00	NR*
	802.11ax20-HE0	45	6175	MCS0	7.00	NR*
		93	6415	1	7.00	NR*
		3	5965		10.00	NR*
	802.11ax40-HE0	43	6165	MCS0	10.00	NR*
U-NII-5		91	6405		10.00	NR*
6.2GHz		7	5985		10.00	NR*
	802.11ax80-HE0	39	6145	MCS0	10.00	NR*
		87	6385		10.00	NR*
		15	6025		10.00	9.97
	802.11ax160-HE0	47	6185	MCS0	10.00	9.98
		79	6345		10.00	9.85
			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		97	6435		7.00	NR*
	802.11ax20-HE0	105	6475	MCS0	7.00	NR*
		113	6515		7.00	NR*
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	NR*
6.5GHz	002.11aX4U-ΠΕU	107	6485	IVICOU	10.00	NR*
	802.11ax80-HE0	103	6465	MCS0	10.00	NR*
	002.11dx00-HEU	119	6545	IVICOU	10.00	NR*
	802.11ax160-HE0	111	6505	MCS0	10.00	9.96

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			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		117	6535		7.00	NR*
	802.11ax20-HE0	149	6695	MCS0	7.00	NR*
		181	6855		7.00	NR*
		115	6525		10.00	NR*
U-NII-7	802.11ax40-HE0	147	6685	MCS0	10.00	NR*
6.7GHz		179	6845		10.00	NR*
0.7602		135	6625		10.00	NR*
	802.11ax80-HE0	151	6705	MCS0	10.00	NR*
		167	6785		10.00	NR*
	902 11 ov160 UE0	143	6665	MCCO	10.00	9.85
	802.11ax160-HE0	175	6825	MCS0	10.00	9.95
			Main			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
	802.11ax20-HE0	185	6875	MCS0	7.00	NR*
	002.11ax20=MEU	209	6995	IVICOU	6.50	NR*
	802.11ax40-HE0	187	6885	MCS0	10.00	NR*
U-NII-8	002.11ax40-11EU	227	7085	IVICOU	10.00	NR*
7.0GHz		183	6865		10.00	NR*
	802.11ax80-HE0	199	6945	MCS0	10.00	NR*
		215	7025		10.00	NR*
	802.11ax160-HE0	207	6985	MCS0	10.00	9.98

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	5955		7.00	NR*
	802.11ax20-HE0	45	6175	MCS0	7.00	NR*
		93	6415		7.00	NR*
		3	5965		10.00	NR*
	802.11ax40-HE0	43	6165	MCS0	10.00	NR*
U-NII-5		91	6405		10.00	NR*
6.2GHz		7	5985		10.00	NR*
	802.11ax80-HE0	39	6145	MCS0	10.00	NR*
		87	6385		10.00	NR*
		15	6025		10.00	9.98
	802.11ax160-HE0	47	6185	MCS0	10.00	9.96
		79	6345		10.00	9.97
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		97	6435		7.00	NR*
	802.11ax20-HE0	105	6475	MCS0	7.00	NR*
		113	6515		7.00	NR*
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	NR*
6.5GHz	002.11αX 4 0-ΠΕ	107	6485	IVICOU	10.00	NR*
	802.11ax80-HE0	103	6465	MCS0	10.00	NR*
	ουΖ.ΤΙάχου-ΠΕυ	119	6545	IVICOU	10.00	NR*
	802.11ax160-HE0	111	6505	MCS0	10.00	9.94

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		117	6535		7.00	NR*
	802.11ax20-HE0	149	6695	MCS0	7.00	NR*
		181	6855		7.00	NR*
		115	6525		10.00	NR*
	802.11ax40-HE0	147	6685	MCS0	10.00	NR*
U-NII-7		179	6845		10.00	NR*
6.7GHz		135	6625		10.00	NR*
	802.11ax80-HE0	151	6705	MCS0	10.00	NR*
		167	6785		10.00	NR*
	000 44 - 400 1150	143	6665	MCCO	10.00	9.97
	802.11ax160-HE0	175	6825	MCS0	10.00	9.92
			Aux			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
	802.11ax20-HE0	185	6875	MCS0	7.00	NR*
	OUZ. I TAXZU-FIEU	209	6995	IVICOU	6.50	NR*
	802.11ax40-HE0	187	6885	MCS0	10.00	NR*
U-NII-8	002.11αX 4 0-ΠΕ	227	7085	IVICOU	10.00	NR*
7.0GHz		183	6865		10.00	NR*
	802.11ax80-HE0	199	6945	MCS0	10.00	NR*
		215	7025		10.00	NR*
	802.11ax160-HE0	207	6985	MCS0	10.00	9.95

^{* -}Not required

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Bluetooth

			1Mbps		2Mbps		3Mbps	
Mode	Channel	Frequency (MHz)	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)
	CH 00	2402		12.45				
BR/EDR	CH 39	2441	12.50	12.03	10.00	NR*	10.00	NR*
	CH 78	2480		11.57				

^{* -}Not required

7.4 **BLE**

Mada	Channel	Frequency	(GFSK			
Mode	Channel	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)			
	CH 00	2402					
BLE_1M	CH 19	2440	12.5	NR*			
	CH 39	2480					
Mode	Frequency		GFSK				
iviode	Channel	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)			
	CH 00	2402					
BLE_2M	CH 19	2440	12.5	NR*			
	CH 39	2480					

^{* -}Not required

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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**

			Distance		F	Max. Rated Avg.	Measured	Dutu susta	Dawes	Augraged SAB	over 1g (W/kg)	
Band	Antenna	Position	(mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Duty cycle scaling	Power scaling	Measured	Reported	ID
WLAN 802.11b	Main	Bottom Surface	0	1	2412	16.50	16.34	1.01	103.75%	0.153	0.160	
WLAN 802.11b	Main	Bottom Surface	0	6	2437	16.50	16.47	1.01	100.69%	0.169	0.171	001
WLAN 802.11b	Main	Bottom Surface	0	11	2462	16.50	16.44	1.01	101.39%	0.136	0.139	-
WLAN 802.11b	Main	Bottom Surface*	0	6	2437	16.50	16.47	1.01	100.69%	0.136	0.139	-
						Max. Rated Avg.	Measured					
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	ID
WLAN 802.11ac(80M) 5.2G	Main	Bottom Surface	0	42	5210	14.50	14.48	1.02	100.46%	0.125	0.128	002
WLAN 802.11ac(80M) 5.2G	Main	Bottom Surface*	0	42	5210	14.50	14.48	1.02	100.46%	0.079	0.081	
VEPIV 002.11ac(00IVI) 3.20	IVIGIII	Dottoill Gullace	<u> </u>	72	3210	Max. Rated Avg.	Measured	1.02	100.4070			-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	ID
WLAN 802.11ac(80M) 5.3G	Main	Bottom Surface	0	58	5290	14.50	14.48	1.02	100.46%	0.146	0.149	003
WLAN 802.11ac(80M) 5.3G	Main	Bottom Surface*	0	58	5290	14.50	14.48	1.02	100.46%	0.093	0.095	
						Max. Rated Avg.	Measured					
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface	0	106	5530	15.00	14.68	1.02	107.65%	0.094	0.103	-
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface	0	122	5610	15.00	14.92	1.02	101.86%	0.101	0.105	-
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface	0	138	5690	15.00	14.99	1.02	100.23%	0.108	0.110	004
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface*	0	138	5690	15.00	14.99	1.02	100.23%	0.072	0.073	001
WEAN 802.11ac(80W) 5.03	IVIdIII	Bottom Sunace	0	136	3090			1.02	100.2376	0.072	0.073	
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 Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(160M) 5.9G	Main	Bottom Surface	0	163	5815	15.00	14.92	1.03	101.86%	0.113	0.118	005
WLAN 802.11ac(160M) 5.9G	Main	Bottom Surface*	0	163	5815	15.00	14.92	1.03	101.86%	0.070	0.073	000
WEAN 802.11ac(160W) 5.9G	IVIAIN	Bottom Surface	- 0	103	5615			1.03	101.86%	0.070	0.073	
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 Measured	over 1g (W/kg) Reported	ID
WLAN 802.11b	Aux	Bottom Surface	0	1	2412	16.50	16.33	1.01	103.99%	0.049	0.051	_
WLAN 802.11b	Aux	Bottom Surface	0	6	2437	16.50	16.48	1.01	100.46%	0.057	0.058	006
WLAN 802.11b	Aux	Bottom Surface	0	11	2462	16.50	16.42	1.01	101.86%	0.042	0.043	000
WLAN 802.11b	Aux	Bottom Surface*	0	6	2437	16.50	16.48	1.01	100.46%	0.042	0.045	
WLAN 802.11b	Aux	Bollom Suriace	0	ь в	2437			1.01	100.46%	0.046	0.046	-
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 Measured	over 1g (W/kg)	ID
Bluetooth(GFSK)	Aux	Bottom Surface	0	00	2402	12.50	12.45	1.31	101.16%	0.065	0.086	
Bluetooth(GFSK)	Aux	Bottom Surface	0	39	2402	12.50	12.45	1.31	111.43%	0.089	0.130	007
, ,												
Bluetooth(GFSK)	Aux	Bottom Surface	0	78	2480	12.50	11.57	1.31	123.88%	0.055	0.090	-
Bluetooth(GFSK)	Aux	Bottom Surface*	0	39	2441	12.50	12.03	1.31	111.43%	0.051	0.075	-
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 Measured	over 1g (W/kg)	ID
WLAN 802.11n(40M) 5.2G	Aux	Bottom Surface	0	38	5190	17.00	16.93	1.05	101.62%	0.153	0.164	008
WLAN 802.11n(40M) 5.2G	Aux	Bottom Surface	0	46	5230	17.00	16.97	1.05	100.69%	0.128	0.136	-
WLAN 802.11n(40M) 5.2G	Aux	Bottom Surface*	0	38	5190	17.00	16.93	1.05	101.62%	0.121	0.129	
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
WII AN 000 44-74010 5 00		D-# 0 /	-	F.	F070		, ,	4.05	404.0007	Measured	Reported	000
WLAN 802.11n(40M) 5.3G	Aux	Bottom Surface Bottom Surface	0	54 62	5270 5310	17.00 17.00	16.94 16.69	1.05	101.39% 107.40%	0.139 0.118	0.148	009
WLAN 802.11n(40M) 5.3G			-									<u> </u>
WLAN 802.11n(40M) 5.3G	Aux	Bottom Surface*	0	54	5270	17.00	16.94	1.05	101.39%	0.104	0.111	-
					Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)	ID
Band	Antenna	Position	Distance (mm)	Channel	(MHz)	Tolerance (dBm)	(dBm)	Scaling	Scaring	Measured	Reported	
Band			(mm)		(MHz)	Tolerance (dBm)	, ,			Measured 0.111	Reported 0.115	010
Band WLAN 802.11ac(80M) 5.6G	Aux	Bottom Surface	(mm) 0	106	(MHz) 5530	Tolerance (dBm) 16.50	16.43	1.02	101.62%	0.111	0.115	010
Band WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Aux Aux	Bottom Surface Bottom Surface	(mm) 0	106 122	(MHz) 5530 5610	Tolerance (dBm) 16.50 16.50	16.43 15.93	1.02	101.62% 114.02%	0.111 0.088	0.115 0.102	-
Band WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Aux Aux Aux	Bottom Surface Bottom Surface Bottom Surface	(mm) 0 0	106 122 138	5530 5610 5690	Tolerance (dBm) 16.50 16.50	16.43 15.93 16.48	1.02 1.02 1.02	101.62% 114.02% 100.46%	0.111 0.088 0.102	0.115 0.102 0.104	-
Band WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Aux Aux	Bottom Surface Bottom Surface	(mm) 0	106 122	(MHz) 5530 5610	Tolerance (dBm) 16.50 16.50 16.50 16.50	16.43 15.93	1.02	101.62% 114.02%	0.111 0.088	0.115 0.102	-
Band WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Aux Aux Aux	Bottom Surface Bottom Surface Bottom Surface	(mm) 0 0	106 122 138	5530 5610 5690	Tolerance (dBm) 16.50 16.50 16.50 16.50 Max. Rated Avg. Power + Max.	16.43 15.93 16.48 16.43 Measured Avg. Power	1.02 1.02 1.02	101.62% 114.02% 100.46%	0.111 0.088 0.102 0.097 Averaged SAR	0.115 0.102 0.104 0.100 over 1g (W/kg)	-
Band WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G Band	Aux Aux Aux Aux Antenna	Bottom Surface Bottom Surface Bottom Surface Bottom Surface*	(mm) 0 0 0 0 Distance (mm)	106 122 138 106 Channel	(MHz) 5530 5610 5690 5530 Freq. (MHz)	Tolerance (dBm) 16.50 16.50 16.50 16.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	16.43 15.93 16.48 16.43 Measured Avg. Power (dBm)	1.02 1.02 1.02 1.02 1.02 Duty cycle scaling	101.62% 114.02% 100.46% 101.62% Power scaling	0.111 0.088 0.102 0.097 Averaged SAR Measured	0.115 0.102 0.104 0.100 over 1g (W/kg)	- - -
Band WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Aux Aux Aux Aux	Bottom Surface Bottom Surface Bottom Surface Bottom Surface*	(mm) 0 0 0 0 Distance	106 122 138 106	(MHz) 5530 5610 5690 5530 Freq.	Tolerance (dBm) 16.50 16.50 16.50 16.50 Max. Rated Avg. Power + Max.	16.43 15.93 16.48 16.43 Measured Avg. Power	1.02 1.02 1.02 1.02 Duty cycle	101.62% 114.02% 100.46% 101.62%	0.111 0.088 0.102 0.097 Averaged SAR	0.115 0.102 0.104 0.100 over 1g (W/kg)	-

Band	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			()		(1411.12)	Tolerance (dBm)	(dBm)	Journal	Journa	Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Surface	0	15	6025	10.00	9.97	1.04	100.69%	0.050	0.053	0.431	0.453	012
U-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Surface	0	47	6185	10.00	9.98	1.04	100.46%	0.048	0.050	0.398	0.417	013
U-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Surface	0	79	6345	10.00	9.85	1.04	103.51%	0.042	0.045	0.342	0.370	
U-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Surface*	0	15	6025	10.00	9.97	1.04	100.69%	0.038	0.040	0.312	0.328	

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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)		W/m^2 (4cm^2)	ID
			, ,		, ,	Tolerance (dBm)	(dBm)			Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Main	Bottom Surface	0	111	6505	10.00	9.96	1.04	100.93%	0.034	0.036	0.271	0.286	014
U-NII-6 6.5GHz 802.11ax(160M)	Main	Bottom Surface*	0	111	6505	10.00	9.96	1.04	100.93%	0.026	0.027	0.191	0.201	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	ver 1g (W/kg) Estimated APD W/m^2 (4cm^2)		ID
			` ′		. ,	Tolerance (dBm)	(dBm)			Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(160M)	Main	Bottom Surface	0	143	6665	10.00	9.85	1.04	103.51%	0.017	0.018	0.108	0.117	-
U-NII-7 6.7GHz 802.11ax(160M)	Main	Bottom Surface	0	175	6825	10.00	9.95	1.04	101.16%	0.019	0.020	0.127	0.134	015
U-NII-7 6.7GHz 802.11ax(160M)	Main	Bottom Surface*	0	175	6825	10.00	9.95	1.04	101.16%	0.011	0.012	0.074	0.078	-
Band	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			()		(Tolerance (dBm)	(dBm)			Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Main	Bottom Surface	0	207	6985	10.00	9.98	1.04	100.46%	0.034	0.036	0.264	0.277	016
U-NII-8 7.0GHz 802.11ax(160M)	Main	Bottom Surface*	0	207	6985	10.00	9.98	1.04	100.46%	0.028	0.029	0.206	0.216	-
Band	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			` ′		, ,	Tolerance (dBm)	(dBm)	3	9	Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Bottom Surface	0	15	6025	10.00	9.98	1.04	100.46%	0.028	0.029	0.256	0.268	017
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Bottom Surface	0	47	6185	10.00	9.96	1.04	100.93%	0.026	0.027	0.229	0.241	-
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Bottom Surface	0	79	6345	10.00	9.97	1.04	100.69%	0.025	0.026	0.212	0.223	018
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Bottom Surface*	0	15	6025	10.00	9.98	1.04	100.46%	0.020	0.021	0.176	0.185	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	Averaged SAR over 1g (W/kg) Est		W/m^2 (4cm^2)	ID
			` ′		. ,	Tolerance (dBm)	(dBm)			Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Bottom Surface	0	111	6505	10.00	9.94	1.04	101.39%	0.021	0.022	0.141	0.149	019
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Bottom Surface*	0	111	6505	10.00	9.94	1.04	101.39%	0.016	0.017	0.109	0.115	-
Band	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			(,		(,	Tolerance (dBm)	(dBm)			Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Bottom Surface	0	143	6665	10.00	9.97	1.04	100.69%	0.028	0.029	0.246	0.259	020
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Bottom Surface	0	175	6825	10.00	9.92	1.04	101.86%	0.022	0.023	0.128	0.136	-
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Bottom Surface*	0	143	6665	10.00	9.97	1.04	100.69%	0.021	0.022	0.18	0.189	
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling		over 1g (W/kg)		W/m^2 (4cm^2)	ID
						,	(,		101 1001	Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Aux	Bottom Surface	0	207	6985	10.00	9.95	1.04	101.16%	0.027	0.029	0.193	0.204	021
U-NII-8 7.0GHz 802.11ax(160M)	Aux	Bottom Surface*	0	207	6985	10.00	9.95	1.04	101.16%	0.023	0.024	0.184	0.194	-

Note: * - HTK Spot check

Note:

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

8.3 **Summary of PD Results**

			Distance		Freq.	Max. Rated Avg.	Measured	T		Measurement		PD res	ult(4cm)		ID
Band	Antenna	Position	(mm)	Channel	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	uncertainty	Measured Total psPD (W/m^2)	Reported Total psPD (W/m^2)	Measured Normal psPD (W/m^2)	Reported Normal psPD (W/m^2)	ID
WLAN 6E 802.11ax(160M)	Main	Bottom Surface	2	15	6025	10.00	9.97	100.69%	1.04	1.55	0.563	0.917	0.514	0.838	022
U-NII-5	Main	Bottom Surface	2	47	6185	10.00	9.98	100.46%	1.04	1.55	0.554	0.901	0.526	0.855	023
WLAN 6E 802.11ax(160M) U-NII-6	Main	Bottom Surface	2	111	6505	10.00	9.96	100.93%	1.04	1.55	0.356	0.581	0.345	0.563	024
WLAN 6E 802.11ax(160M) U-NII-7	Main	Bottom Surface	2	175	6825	10.00	9.95	101.16%	1.04	1.55	0.408	0.668	0.382	0.625	025
WLAN 6E 802.11ax(160M) U-NII-8	Main	Bottom Surface	2	207	6985	10.00	9.98	100.46%	1.04	1.55	0.153	0.249	0.138	0.224	026
					_	Max. Rated Avg.	Measured	_				PD res	ult(4cm)	,	
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	Measured Total psPD (W/m^2)	PD res Reported Total psPD (W/m^2)	ult(4cm) Measured Normal psPD (W/m^2)	Reported Normal psPD (W/m^2)	ID
Band WLAN 6E 802.11ax(160M)	Antenna Aux	Position Bottom Surface		Channel 15		Power + Max.	Avg. Power				Total psPD	Reported Total psPD	Measured Normal psPD	Normal psPD	ID 027
			(mm)		(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling	scaling	uncertainty	Total psPD (W/m^2)	Reported Total psPD (W/m^2)	Measured Normal psPD (W/m^2)	Normal psPD (W/m^2)	
WLAN 6E 802.11ax(160M)	Aux	Bottom Surface	(mm) 2	15	(MHz) 6025	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling 100.46%	scaling 1.04	uncertainty 1.55	Total psPD (W/m^2) 0.287	Reported Total psPD (W/m^2) 0.467	Measured Normal psPD (W/m^2) 0.265	Normal psPD (W/m^2) 0.431	027
WLAN 6E 802.11ax(160M) U-NII-5 WLAN 6E 802.11ax(160M)	Aux	Bottom Surface	(mm) 2 2	15 79	(MHz) 6025 6345	Power + Max. Tolerance (dBm) 10.00	Avg. Power (dBm) 9.98 9.97	Scaling 100.46% 100.69%	1.04 1.04	1.55 1.55	Total psPD (W/m^2) 0.287 0.190	Reported Total psPD (W/m^2) 0.467	Measured Normal psPD (W/m^2) 0.265 0.143	Normal psPD (W/m^2) 0.431 0.233	027

Note:

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

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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

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SIMULTANEOUS TRANSMISSION ANALYSIS

9.1 **Simultaneous Transmission Scenarios:**

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

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9.2 Estimated SAR calculation

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

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

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 (SAR1 + SAR2)^1.5/Ri, 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 Ri 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

			Reported SAR								Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
		1	2	3	4	5	6	7	1+4	2+3	3+4+5	2+6	1+7	5+6+7	3+5+7	4+5+6
		2.4GHz WLAN	2.4GHz WLAN	5GHz WI AN Main	5GHz WLAN Aux	Rivetooth Avv	6GHz WLAN Main	6GHz WI AN Aux	Summed							
Exposure Position	n	Main	Aux	OOTIZ TYD IT MAIT	OOTIE WEST THE	Didetoolii hux	OOTE TID OF Main									
		1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR (W/kg)							
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)								
Bottom Surface	0	0.171	0.058	0.149	0.164	0.130	0.053	0.029	0.335	0.207	0.443	0.111	0.200	0.212	0.308	0.347

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

		Equi	pment List		
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	856	Apr/22/2024	Apr/21/2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7466	Jan/28/2025	Jan/27/2026
SPEAG	E-field Probe for Near Field Application	EUmmWV3	9399	Jan/14/2025	Jan/13/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/22/2024	Apr/21/2025
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/19/2024	Mar/18/2027
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/15/2024	Aug/14/2025
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/15/2024	Aug/14/2025
SPEAG	5G Verification Source 10GHz	5G-Veri10	1070	Aug/16/2024	Aug/15/2025
Keysight	EXA Signal Analyzer	N9010B	MY59071573	May/24/2024	May/23/2025
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/21/2024	May/20/2025
Agilent	Dual-directional coupler	772D	MY46151258	Sep/30/2024	Sep/29/2025
Agilent	Dual-directional coupler	778D	MY46151242	Sep/03/2024	Sep/02/2025
EMCI	Amplifier	EMC 2830P	980156	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101974	Nov/11/2024	Nov/10/2025
R&S	Power Sensor	NRP18S	109066	Oct/28/2024	Oct/27/2025
R&S	Power Meter	NRX	105651	Nov/11/2024	Nov/10/2025
SPEAG	Dielectric Assessment Kit	DAK-3.5	1342	May/21/2024	May/20/2025
Agilent	Network Analyzer	E5071C	MY46107530	May/03/2024	May/02/2025
Keysight	Economy calibration kit	85032E	MY61410221	May/29/2024	May/28/2025
SPEAG	Software	DASY 6 V16.0.2.136	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 mmWave V2.4.2.62	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
TECPEL	Digital thermometer	DTM-303A	TP130074	May/10/2024	May/09/2025

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11 UNCERTAINTY BUDGET

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

A	С	D	е		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%	œ
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	œ
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	80
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%	00
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	œ
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	œ
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	œ
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	00
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	00
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	00
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	œ
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	00
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
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%	œ
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	œ
Liquid permittivity (mea.)	3.40%	N	1	1	0.64	0.43	2.18%	1.46%	М
Liquid Conductivity (mea.)	3.37%	N	1	1	0.6	0.49	2.02%	1.65%	М
Combined standard uncertainty		RSS					12.09%	11.91%	
Expant uncertainty (95% confidence interval), K=2							24.17%	23.83%	

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

Α	С	D	е		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	√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.)	2.78%	N	1	1	0.64	0.43	1.78%	1.20%	М
Liquid Conductivity (mea.)	3.17%	N	1	1	0.6	0.49	1.90%	1.55%	М
Combined standard uncertainty		RSS					11.71%	11.58%	
Expant uncertainty (95% confidence interval), K=2							23.42%	23.15%	

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

	1	1					<u>3</u> -/	
а	b	С	d		е	е	f=b * e / d	f=b * e / d
Source of Uncertainty	Uncertainty Value (±%)	Probability Distributioin	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	С	d	<u> </u>	е	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+-dB)	Probability Distributioin	Div.	Div. Value	ci	Std. uncertainty (+-dB)	(vi) Veff
Uncertainty terms dependent on th	e measurement	system					
Probe calibration	0.49	N	1	1	1	0.49	00
Probe correction	0.00	R	√3	1.732	1	0.00	œ
Frequency response (BW ≦1GHz)	0.20	R	√3	1.732	1	0.12	œ
Sensor cross coupling	0.00	R	√3	1.732	1	0.00	∞
Isotropy	0.50	R	√3	1.732	1	0.29	∞
Linearity	0.20	R	√3	1.732	1	0.12	∞
Probe scattering	0.00	R	√3	1.732	1	0.00	œ
Probe positioning offset	0.30	R	√3	1.732	1	0.17	œ
Probe positioning repeatability	0.04	R	√3	1.732	1	0.02	œ
Sensor mechanical offset	0.00	R	√3	1.732	1	0.00	œ
Probe spatial resolution	0.00	R	√3	1.732	1	0.00	00
Field impedance dependance	0.00	R	√3	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	√3	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	√3	1.732	1	0.02	00
Measurement area truncation	0.00	R	√3	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	1	0.03	00
Sampling	0.00	R	√3	1	1	0.00	00
Field reconstruction	2.00	R	√3	1.732	1	1.15	œ
Forward transformation	0.00	R	√3	1.732	1	0.00	œ
Power density scaling	-	R	√3	1.732	1	-	œ
Spatial averaging	0.10	R	√3	1.732	1	0.06	œ
System detection limit	0.04	R	√3	1.732	1	0.02	œ
Uncertainty terms dependent on th	e DUT and envir	onmental facto	ors				
Probe coupling with DUT	0.00	R	√3	1.732	1	0.00	œ
Modulation response	0.40	R	√3	1.732	1	0.23	œ
Integration time	0.00	R	√3	1.732	1	0.00	00
Response time	0.00	R	√3	1.732	1	0.00	00
Device holder influence	0.10	R	√3	1.732	1	0.06	00
DUT alignment	0.00	R	√3	1.732	1	0.00	00
RF ambient conditions	0.04	R	√3	1.732	1	0.02	œ
Ambient reflections	0.04	R	√3	1.732	1	0.02	00
Immunity / secondary reception	0.00	R	√3	1.732	1	0.00	00
Drift of the DUT	-	R	√3	1.732	1	-	00
Combined Std. uncertainty				1		1.33	
Expanded Std. uncertainty (95% confidence interval), K=2	1			† †		2.67	

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12 SAR MEASUREMENT RESULTS

Date: 2025/3/17

ID: 001

Report No.: TESA2503000215EN

WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Main

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.006 Medium parameters used: f = 2437 MHz; $\sigma = 1.843 \text{ S/m}$; $\epsilon r = 40.311$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7466; ConvF(7.38, 6.95, 6.92) @ 2437 MHz; Calibrated: 2025/1/28

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.245 W/kg

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

Reference Value = 4.578 V/m; Power Drift = 0.03 dB

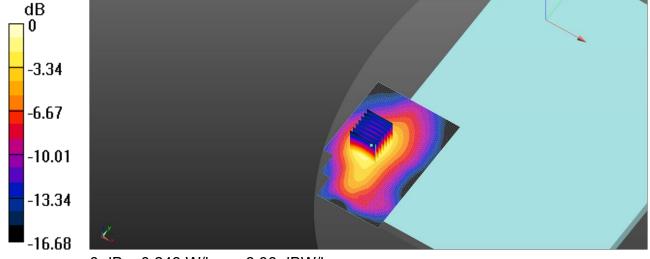
Peak SAR (extrapolated) = 0.288 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.095 W/kg

Smallest distance from peaks to all points 3 dB below = 15.1 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 0.248 W/kg



0 dB = 0.248 W/kg = -6.06 dBW/kg

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Date: 2025/3/18

ID: 002

Report No.: TESA2503000215EN

WLAN 802.11ac(80M) 5.2G Body Bottom Surface CH 42 0mm Main

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.017

Medium parameters used: f = 5210 MHz; $\sigma = 4.735 \text{ S/m}$; $\epsilon r = 36.468$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5210 MHz; Calibrated: 2025/1/28

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.260 W/kg

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

Reference Value = 8.252 V/m; Power Drift = 0.07 dB

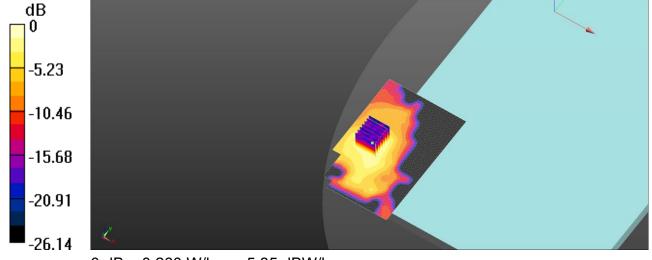
Peak SAR (extrapolated) = 0.416 W/kg

SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.053 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 0.260 W/kg



0 dB = 0.260 W/kg = -5.85 dBW/kg

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Date: 2025/3/18

ID: 003

Report No.: TESA2503000215EN

WLAN 802.11ac(80M) 5.3G Body Bottom Surface CH 58 0mm Main

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.017

Medium parameters used: f = 5290 MHz; $\sigma = 4.826 \text{ S/m}$; $\epsilon r = 36.396$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.52, 5.19, 5.17) @ 5290 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 9.286 V/m; Power Drift = -0.11 dB

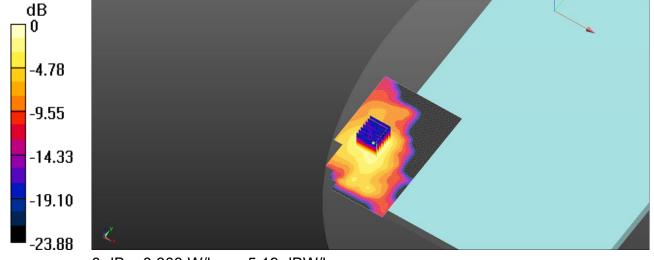
Peak SAR (extrapolated) = 0.481 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.063 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 0.303 W/kg



0 dB = 0.303 W/kg = -5.19 dBW/kg

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Date: 2025/3/18

ID: 004

Report No.: TESA2503000215EN

WLAN 802.11ac(80M) 5.6G Body Bottom Surface CH 138 0mm Main

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.017 Medium parameters used: f = 5690 MHz; $\sigma = 5.24 \text{ S/m}$; $\epsilon r = 35.92$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.15, 4.85, 4.83) @ 5690 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.218 W/kg

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

Reference Value = 7.991 V/m; Power Drift = 0.07 dB

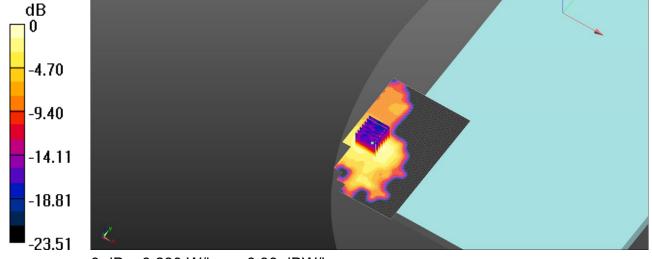
Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.047 W/kg

Smallest distance from peaks to all points 3 dB below = 11.8 mm

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

Maximum value of SAR (measured) = 0.230 W/kg



0 dB = 0.230 W/kg = -6.38 dBW/kg

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Date: 2025/3/18

ID: 005

Report No.: TESA2503000215EN

WLAN 802.11ac(160M) 5.9G Body Bottom Surface CH 163 0mm Main

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.027

Medium parameters used: f = 5815 MHz; $\sigma = 5.369 \text{ S/m}$; $\epsilon r = 35.818$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.07, 4.77, 4.75) @ 5815 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.237 W/kg

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

Reference Value = 5.238 V/m; Power Drift = -0.13 dB

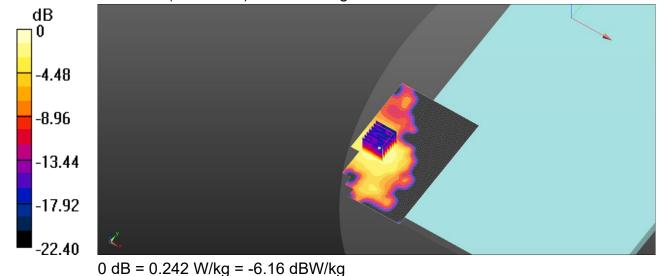
Peak SAR (extrapolated) = 0.425 W/kg

SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.048 W/kg

Smallest distance from peaks to all points 3 dB below = 11.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 0.242 W/kg



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Date: 2025/3/17

ID: 006

Report No.: TESA2503000215EN

WLAN 802.11b Body Bottom Surface CH 6 0mm Aux

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.006 Medium parameters used: f = 2437 MHz; $\sigma = 1.843 \text{ S/m}$; $\epsilon r = 40.311$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(7.38, 6.95, 6.92) @ 2437 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0820 W/kg

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

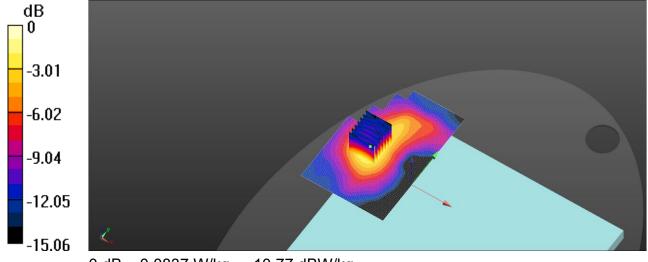
Reference Value = 3.593 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.0960 W/kg

SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.032 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 0.0837 W/kg



0 dB = 0.0837 W/kg = -10.77 dBW/kg

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Date: 2025/3/17

ID: 007

Report No.: TESA2503000215EN

Bluetooth(GFSK) Body Bottom Surface CH 39 0mm Aux

Communication System: Bluetooh; Frequency: 2441 MHz; Duty cycle= 1:1.314

Medium parameters used: f = 2441 MHz; $\sigma = 1.849 \text{ S/m}$; $\epsilon r = 40.298$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(7.38, 6.95, 6.92) @ 2441 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.129 W/kg

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

Reference Value = 5.697 V/m; Power Drift = -0.04 dB

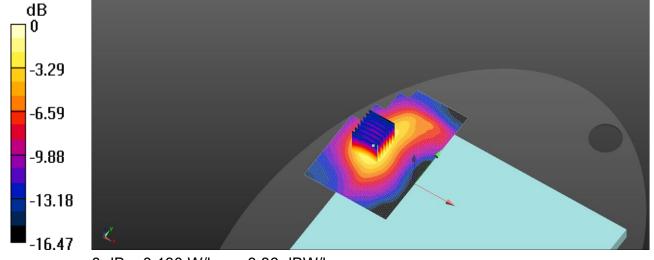
Peak SAR (extrapolated) = 0.151 W/kg

SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.050 W/kg

Smallest distance from peaks to all points 3 dB below = 15 mm

Ratio of SAR at M2 to SAR at M1 = 58.5%

Maximum value of SAR (measured) = 0.130 W/kg



0 dB = 0.130 W/kg = -8.86 dBW/kg

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Date: 2025/3/18

ID: 008

Report No.: TESA2503000215EN

WLAN 802.11n(40M) 5.2G Body Bottom Surface CH 38 0mm Aux

Communication System: WLAN 5G; Frequency: 5190 MHz; Duty cycle= 1:1.052

Medium parameters used: f = 5190 MHz; $\sigma = 4.716 \text{ S/m}$; $\epsilon r = 36.482$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5190 MHz; Calibrated: 2025/1/28

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.313 W/kg

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

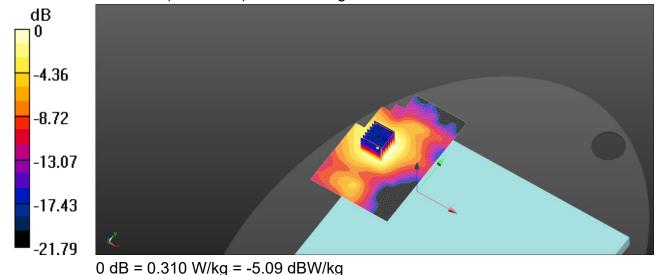
Reference Value = 4.973 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.500 W/kg

SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.071 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 0.310 W/kg



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Date: 2025/3/18

ID: 009

Report No.: TESA2503000215EN

WLAN 802.11n(40M) 5.3G Body Bottom Surface CH 54 0mm Aux

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty cycle= 1:1.052

Medium parameters used: f = 5270 MHz; $\sigma = 4.803 \text{ S/m}$; $\epsilon r = 36.404$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5270 MHz; Calibrated: 2025/1/28

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.281 W/kg

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

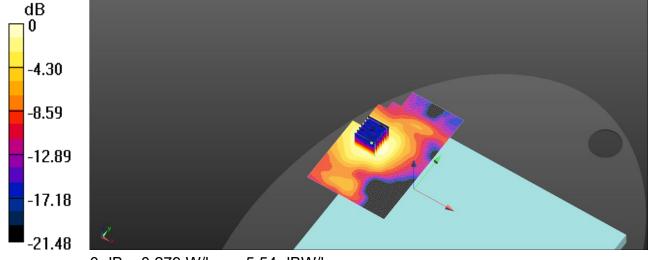
Reference Value = 11.24 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.453 W/kg

SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.064 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 0.279 W/kg



0 dB = 0.279 W/kg = -5.54 dBW/kg

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Date: 2025/3/18

ID: 010

Report No.: TESA2503000215EN

WLAN 802.11ac(80M) 5.6G Body Bottom Surface CH 106 0mm Aux

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.017

Medium parameters used: f = 5530 MHz; $\sigma = 5.068 \text{ S/m}$; $\epsilon r = 36.081$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.16, 4.86, 4.84) @ 5530 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.238 W/kg

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

Reference Value = 8.792 V/m; Power Drift = 0.06 dB

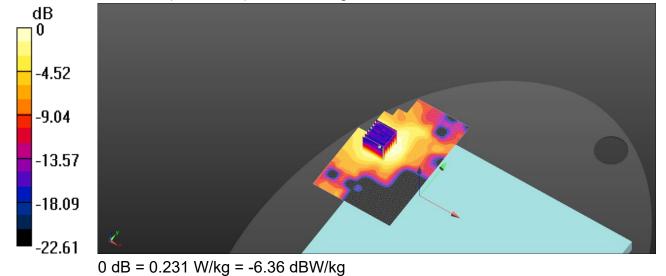
Peak SAR (extrapolated) = 0.398 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.051 W/kg

Smallest distance from peaks to all points 3 dB below = 14.2 mm

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

Maximum value of SAR (measured) = 0.231 W/kg



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Date: 2025/3/18

ID: 011

Report No.: TESA2503000215EN

WLAN 802.11ac(160M) 5.9G Body Bottom Surface CH 163 0mm Aux

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.027

Medium parameters used: f = 5815 MHz; $\sigma = 5.369 \text{ S/m}$; $\epsilon r = 35.818$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.07, 4.77, 4.75) @ 5815 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.159 W/kg

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

Reference Value = 4.597 V/m; Power Drift = 0.04 dB

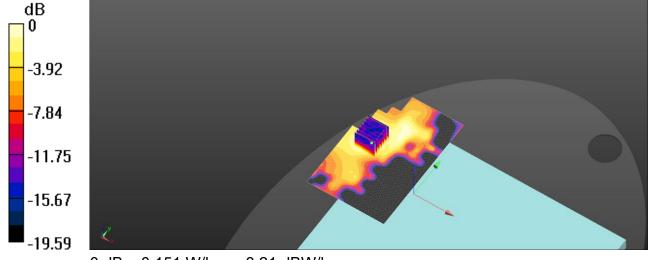
Peak SAR (extrapolated) = 0.271 W/kg

SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.034 W/kg

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 51%

Maximum value of SAR (measured) = 0.151 W/kg



0 dB = 0.151 W/kg = -8.21 dBW/kg

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ID: 012

Report No.: TESA2503000215EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 15_0mm_Main

Ambient temperature: 21.5°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL		Frequency [MHz],Channel		TSL Conductivity [S/m]	TSL Permittivity
	[mm]	Number	Factor		
Flat, HSL	Bottom Surface, 0.00	6025.0, 15	5.34	5.455	34.744

Hardware Setup

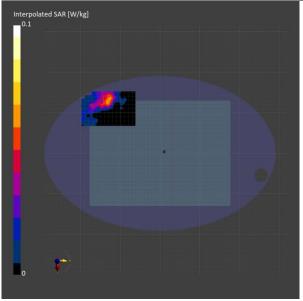
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	0.049	0.050
psSAR8g [W/kg]	0.022	0.022
psSAR10g [W/kg]	0.020	0.019
psPDab (4.0cm2, sq) [W/m2]		0.431
Power Drift [dB]	-0.04	-0.10
M2/M1 [%]		64.1
Dist 3dB Peak [mm]		9.2



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ID: 013

Report No.: TESA2503000215EN

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

Ambient temperature: 21.5°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	•	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6185.0, 47	5.34	5.639	34.537

Hardware Setup

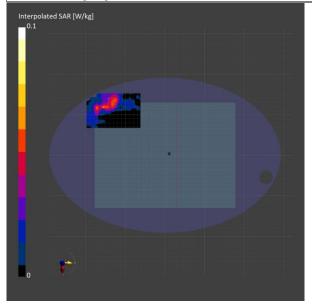
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

moudar official recounts		
	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	0.044	0.048
psSAR8g [W/kg]	0.020	0.020
psSAR10g [W/kg]	0.018	0.018
psPDab (4.0cm2, sq) [W/m2]		0.398
Power Drift [dB]	-0.03	-0.08
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		5.4



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ID: 014

Report No.: TESA2503000215EN

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

Ambient temperature: 21.5°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	•	Frequency [MHz],Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6505.0, 111	5.34	6.013	34.116

Hardware Setup

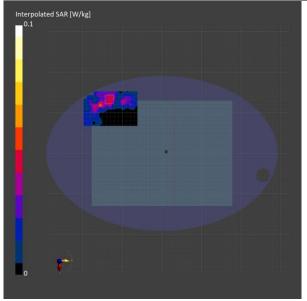
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	0.040	0.034
psSAR8g [W/kg]	0.018	0.014
psSAR10g [W/kg]	0.016	0.012
psPDab (4.0cm2, sq) [W/m2]		0.271
Power Drift [dB]	-0.12	-0.04
M2/M1 [%]		56.0
Dist 3dB Peak [mm]		5.4



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ID: 015

Report No.: TESA2503000215EN

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Bottom Surface_CH 175_0mm_Main

Ambient temperature: 21.5°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL		Frequency [MHz],Channel		TSL Conductivity [S/m]	TSL Permittivity
	[mm]	Number	Factor		
Flat, HSL	Bottom Surface, 0.00	6825.0, 175	5.34	6.374	33.783

Hardware Setup

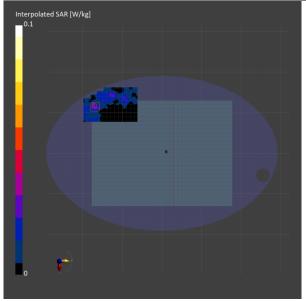
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	1.0 x 1.0 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	0.027	0.019
psSAR8g [W/kg]	0.011	0.006
psSAR10g [W/kg]	0.009	0.005
psPDab (4.0cm2, sq) [W/m2]		0.127
Power Drift [dB]	-0.14	-0.02
M2/M1 [%]		62.6
Dist 3dB Peak [mm]		3.4



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Report No.: TESA2503000215EN

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Bottom Surface_CH 207_0mm_Main

Ambient temperature: 21.7°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity [S/m]	TSL Permittivity
	[mm]	Number	Factor		
Flat, HSL	Bottom Surface, 0.00	6985.0, 207	5.65	6.563	33.569

Hardware Setup

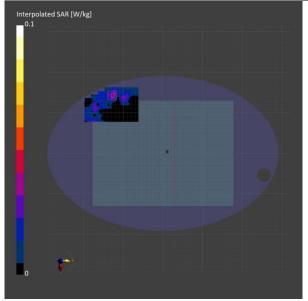
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	0.030	0.034
psSAR8g [W/kg]	0.013	0.013
psSAR10g [W/kg]	0.011	0.012
psPDab (4.0cm2, sq) [W/m2]		0.264
Power Drift [dB]	-0.11	-0.16
M2/M1 [%]		64.3
Dist 3dB Peak [mm]		6.5



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ID: 017

Report No.: TESA2503000215EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 15_0mm_Aux

Ambient temperature: 21.5°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL		Frequency [MHz],Channel		TSL Conductivity [S/m]	TSL Permittivity
	[mm]	Number	Factor		
Flat, HSL	Bottom Surface, 0.00	6025.0, 15	5.34	5.455	34.744

Hardware Setup

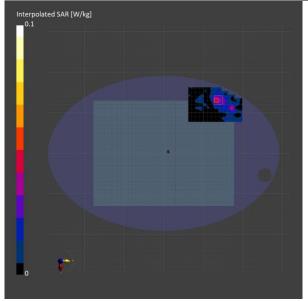
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	0.035	0.028
psSAR8g [W/kg]	0.014	0.013
psSAR10g [W/kg]	0.013	0.012
psPDab (4.0cm2, sq) [W/m2]		0.256
Power Drift [dB]	-0.05	-0.10
M2/M1 [%]		58.7
Dist 3dB Peak [mm]		10.2



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ID: 018

Report No.: TESA2503000215EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 79_0mm_Aux

Ambient temperature: 21.5°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity [S/m]	TSL
	[mm]	Number	Factor		Permittivity
Flat, HSL	Bottom Surface, 0.00	6345.0, 79	5.34	5.828	34.312

Hardware Setup

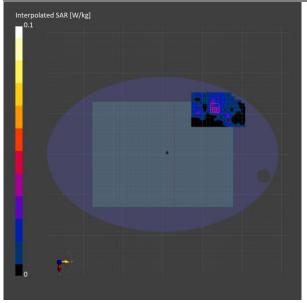
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	0.027	0.025
psSAR8g [W/kg]	0.012	0.011
psSAR10g [W/kg]	0.011	0.01
psPDab (4.0cm2, sq) [W/m2]		0.212
Power Drift [dB]	-0.06	-0.01
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		7.3



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Report No.: TESA2503000215EN

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

Ambient temperature: 21.5°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity [S/m]	TSL Permittivity
	[mm]	Number	Factor		
Flat, HSL	Bottom Surface, 0.00	6505.0, 111	5.34	6.013	34.116

Hardware Setup

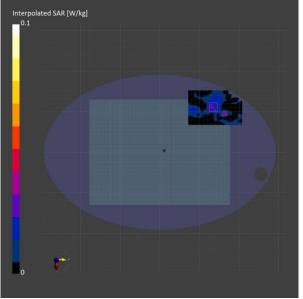
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	0.024	0.021
psSAR8g [W/kg]	0.010	0.007
psSAR10g [W/kg]	0.01	0.006
psPDab (4.0cm2, sq) [W/m2]		0.141
Power Drift [dB]	-0.02	0.10
M2/M1 [%]		48.8
Dist 3dB Peak [mm]		5.9



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ID: 020

Report No.: TESA2503000215EN

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Bottom Surface_CH 143_0mm_Aux

Ambient temperature: 21.5°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity [S/m]	TSL Permittivity
	[mm]	Number	Factor		
Flat, HSL	Bottom Surface, 0.00	6665.0, 143	5.34	6.196	33.951

Hardware Setup

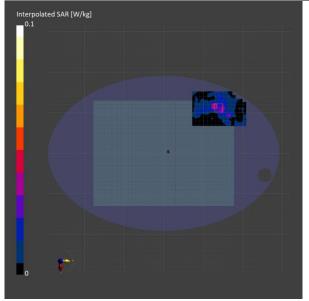
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	0.032	0.028
psSAR8g [W/kg]	0.013	0.012
psSAR10g [W/kg]	0.012	0.011
psPDab (4.0cm2, sq) [W/m2]		0.246
Power Drift [dB]	-0.02	-0.06
M2/M1 [%]		54.3
Dist 3dB Peak [mm]		8.5



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ID: 021

Report No.: TESA2503000215EN

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

Ambient temperature: 21.7°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity [S/m]	TSL Permittivity
	[mm]	Number	Factor		
Flat, HSL	Bottom Surface, 0.00	6985.0, 207	5.65	6.563	33.569

Hardware Setup

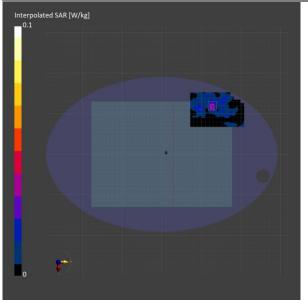
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	0.030	0.027
psSAR8g [W/kg]	0.012	0.01
psSAR10g [W/kg]	0.011	0.009
psPDab (4.0cm2, sq) [W/m2]		0.193
Power Drift [dB]	-0.09	-0.04
M2/M1 [%]		51.4
Dist 3dB Peak [mm]		7.4



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13 PD MEASUREMENT RESULTS

ID: 022

Report No.: TESA2503000215EN

Measurement Report Bottom Surface, U-NII-5, Main

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Bottom Surface, 2.00	6025.0, 15	1.0

Hardware Setup

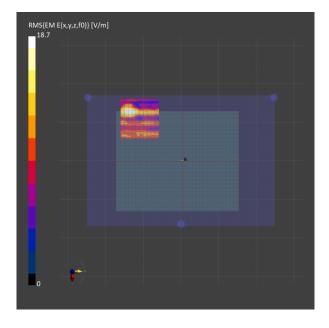
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn856, 2024-04-22

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

Micasarchicht (Csaits	
Scan Type	5G Scan
Date	2025-03-21
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	0.514
psPDtot+ [W/m²]	0.563
psPDmod+ [W/m²]	0.583
E _{max} [V/m]	18.7
Power Drift [dB]	0.17



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ID: 023

Report No.: TESA2503000215EN

Measurement Report_Bottom Surface, U-NII-5, Main

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Bottom Surface, 2.00	6185.0, 47	1.0

Hardware Setup

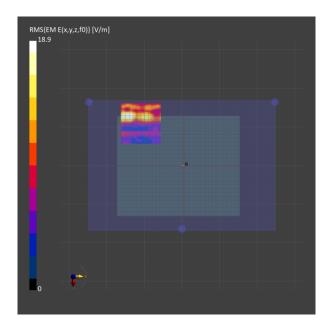
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn856, 2024-04-22

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

5G Scan
2025-03-21
4.00
0.526
0.554
0.573
18.9
-0.11



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ID: 024

Report No.: TESA2503000215EN

Measurement Report_Bottom Surface, U-NII-6, Main

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Bottom Surface, 2.00	6505.0, 111	1.0

Hardware Setup

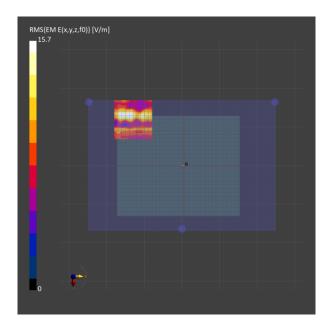
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn856, 2024-04-22

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

mode are more recount.	
Scan Type	5G Scan
Date	2025-03-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m²]	0.345
psPDtot+ [W/m²]	0.356
psPDmod+ [W/m²]	0.373
E _{max} [V/m]	15.7
Power Drift [dB]	0.07



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ID: 025

Report No.: TESA2503000215EN

Measurement Report_Bottom Surface, U-NII-7, Main

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Bottom Surface, 2.00	6825.0, 175	1.0

Hardware	Setup)
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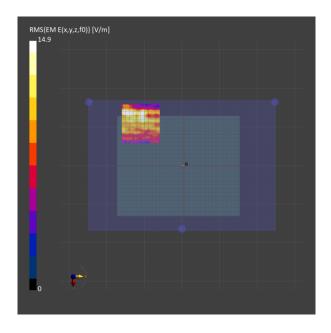
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn856, 2024-04-22

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

5G Scan
2025-03-21
4.00
0.382
0.408
0.442
14.9
0.16



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ID: 026

Report No.: TESA2503000215EN

Measurement Report_Bottom Surface, U-NII-8, Main

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Bottom Surface, 2.00	6985.0, 207	1.0

Hai	rdw	are	Set	un

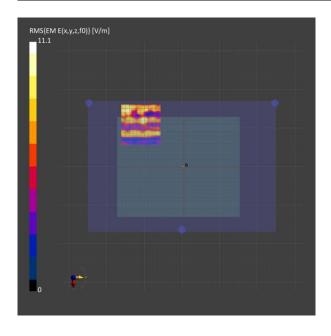
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn856, 2024-04-22

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

5G Scan
2025-03-21
4.00
0.138
0.153
0.177
10.2
0.03



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ID: 027

Report No.: TESA2503000215EN

Measurement Report_Bottom Surface, U-NII-5, Aux

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Bottom Surface, 2.00	6025.0, 15	1.0

Hardware Setu	р
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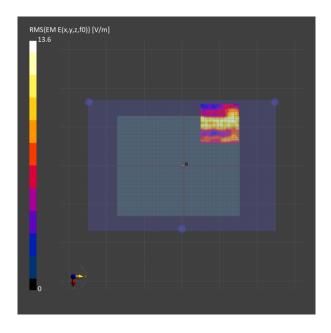
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn856, 2024-04-22

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

moded of the trocate	
Scan Type	5G Scan
Date	2025-03-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m²]	0.265
psPDtot+ [W/m²]	0.287
psPDmod+ [W/m²]	0.323
E _{max} [V/m]	12.3
Power Drift [dB]	0.12



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ID: 028

Report No.: TESA2503000215EN

Measurement Report_Bottom Surface, U-NII-5, Aux

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Bottom Surface, 2.00	6345.0, 79	1.0

Hardware Setup

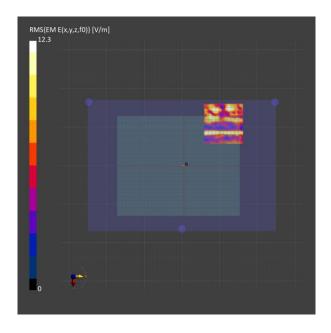
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn856, 2024-04-22

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

5G Scan
2025-03-21
4.00
0.143
0.190
0.246
12.1
-0.17



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ID: 029

Report No.: TESA2503000215EN

Measurement Report_Bottom Surface, U-NII-6, Aux

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Bottom Surface, 2.00	6505.0, 111	1.0

Hardware Setup

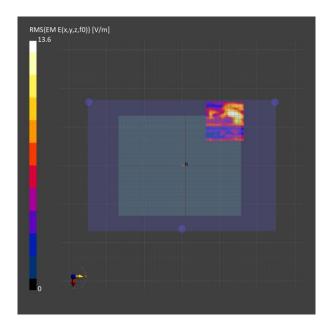
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn856, 2024-04-22

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

5G Scan
2025-03-22
4.00
0.269
0.317
0.348
13.6
0.06



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ID: 030

Report No.: TESA2503000215EN

Measurement Report_Bottom Surface, U-NII-7, Aux

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Bottom Surface, 2.00	6665.0, 143	1.0

Hardware Setup

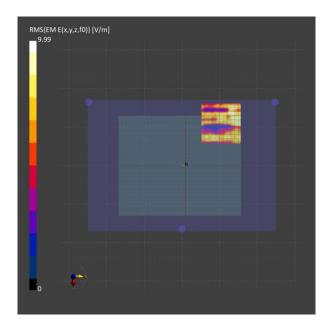
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn856, 2024-04-22

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

5G Scan
2025-03-22
4.00
0.165
0.172
0.185
9.99
0.15



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ID: 031

Report No.: TESA2503000215EN

Measurement Report_Bottom Surface, U-NII-8, Aux

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Bottom Surface, 2.00	6985.0, 207	1.0

Ha	rdv	var	e 9	Set	tu	n

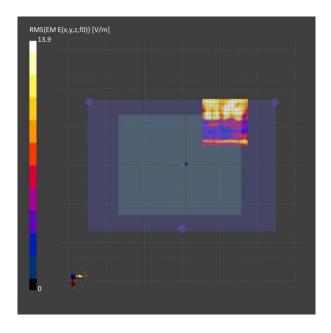
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2025-01-14	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

5G Scan
2025-03-22
4.00
0.357
0.389
0.398
14.0
-0.14



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14 SAR SYSTEM CHECK RESULTS

Date: 2025/3/17

Report No.: TESA2503000215EN

Dipole 2450 MHz SN:727

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.855 \text{ S/m}$; $\varepsilon_r = 40.267$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7466; ConvF(7.38, 6.95, 6.92) @ 2450 MHz; Calibrated: 2025/1/28

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 19.8 W/kg

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

Reference Value = 99.66 V/m; Power Drift = -0.12 dB

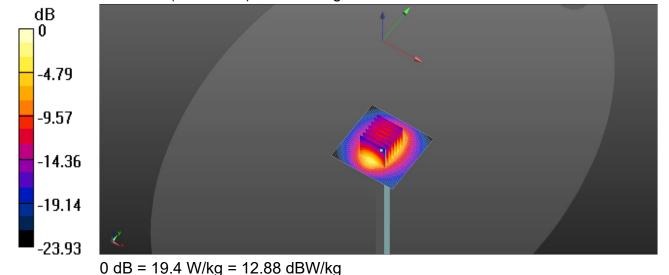
Peak SAR (extrapolated) = 22.5 W/kg

SAR(1 g) = 12.6 W/kg; SAR(10 g) = 6.36 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.7%

Maximum value of SAR (measured) = 19.4 W/kg



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Date: 2025/3/18

Report No.: TESA2503000215EN Dipole 5250 MHz_SN:1349

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

Medium parameters used: f = 5250 MHz; $\sigma = 4.779 \text{ S/m}$; $\varepsilon_r = 36.427$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7466; ConvF(5.52, 5.19, 5.17) @ 5250 MHz; Calibrated: 2025/1/28

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856: Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.3 W/kg

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

Reference Value = 55.23 V/m; Power Drift = 0.13 dB

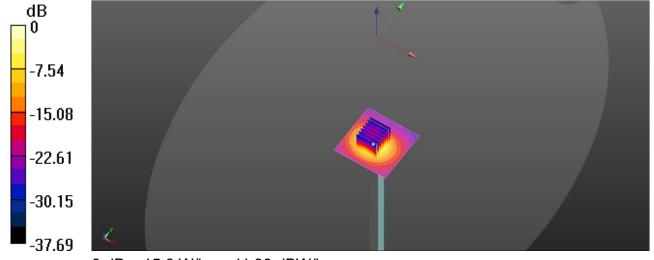
Peak SAR (extrapolated) = 29.9 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.26 W/kg

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

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

Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg = 11.93 dBW/kg

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Date: 2025/3/18

Report No.: TESA2503000215EN Dipole 5600 MHz_SN:1349

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

Medium parameters used: f = 5600 MHz; $\sigma = 5.145 \text{ S/m}$; $\varepsilon_r = 35.986$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN7466; ConvF(5.15, 4.85, 4.83) @ 5600 MHz; Calibrated: 2025/1/28

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856: Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 56.64 V/m; Power Drift = 0.15 dB

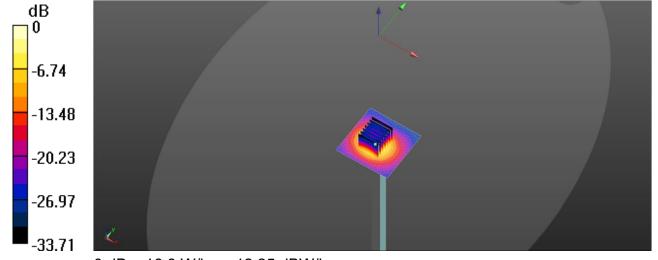
Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 8.33 W/kg; SAR(10 g) = 2.45 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.3%

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



0 dB = 16.8 W/kg = 12.25 dBW/kg

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Date: 2025/3/18

Report No.: TESA2503000215EN Dipole 5750 MHz_SN:1349

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

Medium parameters used: f = 5750 MHz; $\sigma = 5.299 \text{ S/m}$; $\epsilon_r = 35.867$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.15, 4.85, 4.83) @ 5750 MHz; Calibrated: 2025/1/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856: Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 52.64 V/m; Power Drift = 0.16 dB

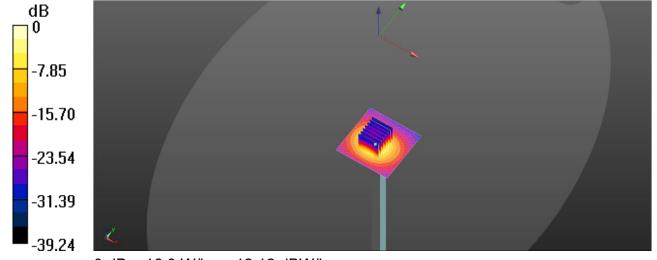
Peak SAR (extrapolated) = 32.9 W/kg

SAR(1 g) = 7.77 W/kg; SAR(10 g) = 2.22 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 dBW/kg

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Date: 2025/3/18

Report No.: TESA2503000215EN Dipole 5850 MHz_SN:1349

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

Medium parameters used: f = 5850 MHz; $\sigma = 5.411 \text{ S/m}$; $\varepsilon_r = 35.776$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7466; ConvF(5.07, 4.77, 4.75) @ 5850 MHz; Calibrated: 2025/1/28

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856: Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.1 W/kg

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

Reference Value = 53.35 V/m; Power Drift = 0.12 dB

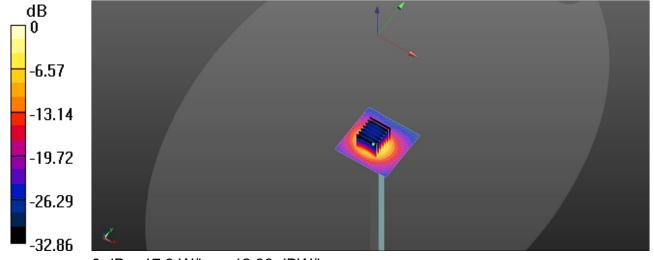
Peak SAR (extrapolated) = 35.4 W/kg

SAR(1 g) = 8.15 W/kg; SAR(10 g) = 2.31 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kg = 12.38 dBW/kg

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Report No.: TESA2503000215EN

Measurement Report Dipole_D6500-SN:1006

Ambient temperature: 21.5°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.34	6.011	34.13

Hardware Setup

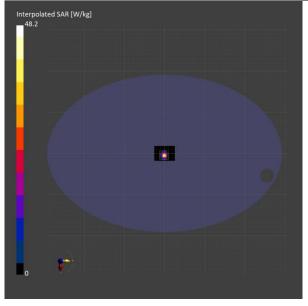
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 51.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 8.5	2.9 x 2.9 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	25.6	30.2
psSAR8g [W/kg]	6.17	6.88
psSAR10g [W/kg]	5.11	5.64
psPDab (4.0cm2, sq) [W/m2]		138
Power Drift [dB]	-0.03	0.04
M2/M1 [%]		58.4
Dist 3dB Peak [mm]		4.7



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Report No.: TESA2503000215EN

Measurement Report Dipole_D6500-SN:1006

Ambient temperature: 21.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.34	5.876	33.388

Hardware Setup

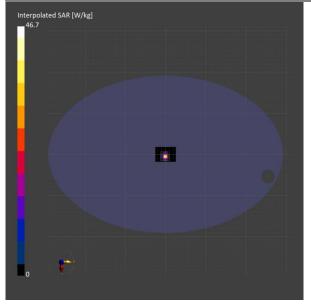
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 51.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 8.5	2.9 x 2.9 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-20	2025-03-20
psSAR1g [W/kg]	24.9	29.5
psSAR8g [W/kg]	5.99	6.70
psSAR10g [W/kg]	4.97	5.50
psPDab (4.0cm2, sq) [W/m2]		134
Power Drift [dB]	-0.06	0.08
M2/M1 [%]		58.3
Dist 3dB Peak [mm]		4.7



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Report No.: TESA2412000893E5

Measurement Report Dipole_D7000-SN:1007

Ambient temperature: 21.7°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.65	6.575	33.534

Hardware Setup

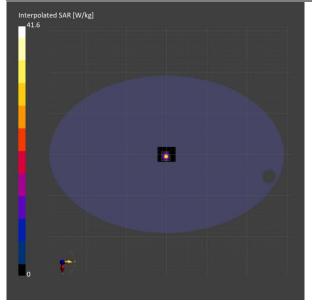
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 45.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 7.5	3.0 x 3.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-19	2025-03-19
psSAR1g [W/kg]	23.8	27.6
psSAR8g [W/kg]	5.67	6.03
psSAR10g [W/kg]	4.69	4.94
psPDab (4.0cm2, sq) [W/m2]		121
Power Drift [dB]	-0.04	0.07
M2/M1 [%]		49.9
Dist 3dB Peak [mm]		4.6



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Report No.: TESA2412000893E5

Measurement Report Dipole_D7000-SN:1007

Ambient temperature: 21.6°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.65	6.426	32.752

Hardware Setup

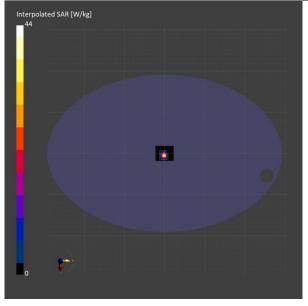
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 45.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 7.5	2.9 x 2.9 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-20	2025-03-20
psSAR1g [W/kg]	25.1	29.2
psSAR8g [W/kg]	5.98	6.39
psSAR10g [W/kg]	4.95	5.23
psPDab (4.0cm2, sq) [W/m2]		128
Power Drift [dB]	-0.02	0.09
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		4.7



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

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15 PD SYSTEM CHECK RESULTS

Report No.: TESA2503000215EN

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

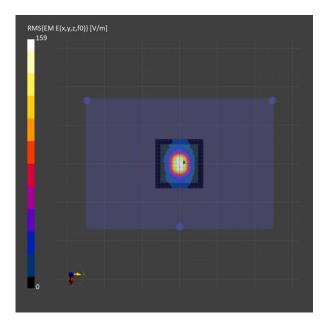
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9399_F1-55GHz, 2025-01-24	DAE4 Sn856, 2024-04-22

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

Massurament Results

Measurement Nesuits		
Scan Type	5G Scan	
Date	2025-03-21	
Avg. Area [cm ²]	4.00	
psPDn+ [W/m ²]	54.7	
psPDtot+ [W/m²]	54.9	
psPDmod+ [W/m²]	55.4	
E _{max} [V/m]	152	
Power Drift [dB]	0.02	
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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
- **SAR Appendix D Dipole Extended Calibration Verification** 16.4

- End of report -

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