

RF Exposure report



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

Product Name Portable Computing Device
Brand Name Microsoft
Model No. 2038
Applicant Microsoft Corporation
One Microsoft Way Redmond, WA 98052-6399, U.S.A
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID PD9AX211D2
Date of EUT Receipt May 18, 2022
Date of Test(s) Jul. 01, 2022 ~ Jul. 12, 2022
Date of Issue Sep. 08, 2022

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

Remarks:

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

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Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Bond Tsai	Approved By / John Yeh

Date: Sep. 08, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2205000114E5	00	Initial creation of document	Aug. 04, 2022	Kimmy Chiou	*
TESA2205000114E5	01	Modify comment	Sep. 08, 2022	Kimmy Chiou	

Note:

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

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1 GENERAL INFORMATION

1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

IEC/IEEE 62209-1528:2020

SPEAG DASY6 System Handbook

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

IEC TR 63170:2018

IEC 62479:2010

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1.2 Description of EUT

Product Name	Portable Computing Device	
Brand Name	Microsoft	
Model No.	2038	
FCC ID	PD9AX211D2	
Integrated WLAN Module	Brand Name: Intel® Wi-Fi 6E AX211 Model Name: AX211D2W	
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE	
Duty Cycle	WLAN802.11	Refer to page 143~146
	Bluetooth	77.2%
Supported Radios	802.11 b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz)
	Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz)
	802.11ax	6.0GHz (5925.0 - 7125.0MHz)

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1.3 Maximum value

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g Body (W/kg)	Highest APD (W/m ²)	Highest PD (W/m ²)
Bluetooth(GFSK)	0.32	N/A	N/A
2.4G WLAN	1.09	N/A	N/A
5G WLAN	1.04	N/A	N/A
6G WLAN	1.07	6.69	8.6

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AWAN

Mode 1 WLAN

Vendor	AWAN								
Antenna	ChainB								
Part Number	1415-09EJ0QS								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	3.20	2.97	3.32	3.46	3.55	3.51	3.51	3.27	3.27

Vendor	AWAN								
Antenna	ChainA								
Part Number	1415-09EH0QS								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	3.2	3.22	3.21	3.51	3.55	3.56	3.31	3.34	3.34

Mode 2 WLAN

Vendor	AWAN								
Antenna	ChainB								
Part Number	1415-09EJ0QS								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	3.20	2.97	3.32	3.46	3.55	3.51	3.51	3.27	3.27

Vendor	AWAN								
Antenna	ChainA								
Part Number	1415-09EH0QS								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	3.2	3.22	3.21	3.51	3.55	3.56	3.31	3.34	3.34

Hong Bo

Mode 1 WLAN

Vendor	Hong Bo								
Antenna	ChainB								
Part Number	1415-09FD0QS								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.36	2.71	2.98	3.11	3.33	3.03	3.03	3.07	3.07

Vendor	Hong Bo								
Antenna	ChainA								
Part Number	1415-09FC0QS								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.3	2.93	2.93	3.2	3.20	3.27	2.97	3.01	3.01

Mode 2 WLAN

Vendor	Hong Bo								
Antenna	ChainB								
Part Number	1415-09FD0QS								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.36	2.71	2.98	3.11	3.33	3.03	3.03	3.07	3.07

Vendor	Hong Bo								
Antenna	ChainA								
Part Number	1415-09FC0QS								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.3	2.93	2.93	3.2	3.20	3.27	2.97	3.01	3.01

Note:

1. ChainA(Aux Ant), ChainB(Main Ant), ChainA+ChainB(Aux Ant + Main Ant)
2. Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

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

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

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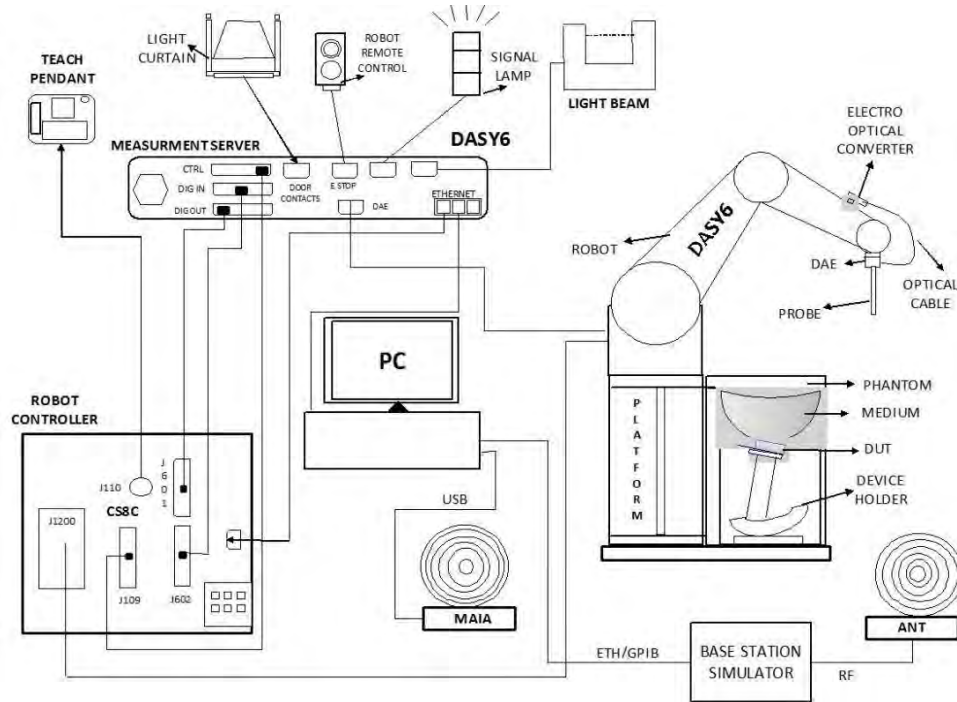
Block Diagram (DASY5)

The schematic diagram illustrates the experimental setup for the robot arm. At the center is the **Measurement Server (DASY5)**, which is connected to a **PC** and a **robot controller (CS8C)**. The robot controller is connected to the **DASY5** robot arm. The robot arm is connected to a **Light Sensor** and a **Signal lamp**. The robot arm is also connected to a **Sheet out** and a **Reverse Control Wire**. The robot arm is connected to a **Sheet in** and a **Sheet out**.

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Block Diagram (DASY6)

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



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

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EX3DV4 E-Field Probe

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

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PHANTOM (ELI)

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

DEVICE HOLDER (ELI)

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

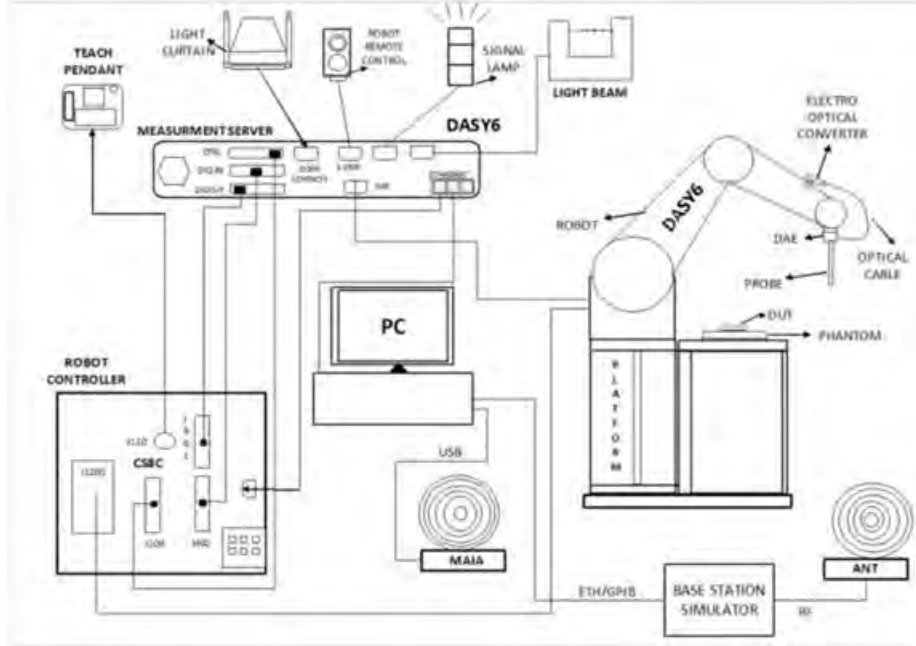
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2.3 PD system

Block Diagram (DASY6)

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

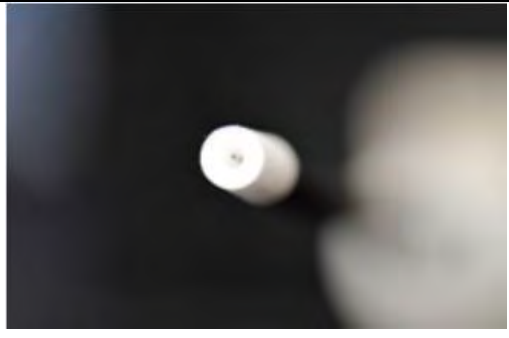
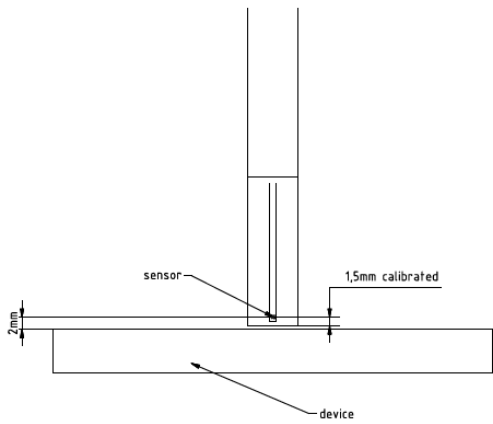


EUmmWVx probe

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

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	Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/ point, 120° rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.
Frequency Range	750 MHz – 110 GHz
Dynamic Range	< 20 V/m – 10,000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm (DASY6)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: encapsulation 8 mm (internal sensor < 1mm) Distance from probe tip to dipole centers: < 2 mm. Sensor displacement to probe's calibration point: < 0.3 mm
Applications 	E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space). Power density, H-field and far-field analysis using total field reconstruction (cDASY6 5G module required)
Compatibility	cDASY6 + 5G-Module SW1.0 and higher

mmWave Phantom

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

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3 SAR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

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

3.2 Tissue Simulant Liquid measurement

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

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

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3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Liquid Temp. (°C)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
2412	22.6°C	39.268	1.766	39.488	1.773	0.56%	0.38%	± 5%	Jul. 01, 2022
2417		39.259	1.771	39.475	1.777	0.55%	0.36%	± 5%	
2437		39.223	1.788	39.411	1.795	0.48%	0.37%	± 5%	
2450		39.200	1.800	39.410	1.807	0.54%	0.39%	± 5%	
2457		39.188	1.806	39.403	1.814	0.55%	0.43%	± 5%	
2462		39.179	1.811	39.382	1.817	0.52%	0.35%	± 5%	
2480		39.162	1.833	39.350	1.841	0.48%	0.45%	± 5%	
5210	22.7°C	35.974	4.665	36.187	4.683	0.59%	0.38%	± 5%	Jul. 02, 2022
5230		35.951	4.686	36.174	4.702	0.62%	0.35%	± 5%	
5250		35.929	4.706	36.144	4.726	0.60%	0.42%	± 5%	
5270		35.906	4.727	36.118	4.747	0.59%	0.43%	± 5%	
5290		35.883	4.747	36.105	4.767	0.62%	0.42%	± 5%	
5530	22.6°C	35.609	4.993	35.815	5.013	0.58%	0.40%	± 5%	Jul. 03, 2022
5570		35.563	5.034	35.758	5.052	0.55%	0.35%	± 5%	
5600		35.529	5.065	35.731	5.086	0.57%	0.41%	± 5%	
5610		35.517	5.075	35.714	5.096	0.55%	0.41%	± 5%	
5690		35.426	5.157	35.645	5.177	0.62%	0.38%	± 5%	
5750	22.8°C	35.357	5.219	35.585	5.241	0.64%	0.43%	± 5%	Jul. 04, 2022
5755		35.351	5.224	35.581	5.247	0.65%	0.44%	± 5%	
5775		35.329	5.244	35.558	5.265	0.65%	0.39%	± 5%	
5795		35.306	5.265	35.532	5.288	0.64%	0.44%	± 5%	
6025	22.6°C	35.070	5.510	35.298	5.533	0.65%	0.43%	± 5%	Jul. 05, 2022
6185		34.878	5.698	35.070	5.719	0.55%	0.36%	± 5%	
6345		34.686	5.887	34.894	5.908	0.60%	0.36%	± 5%	
6500		34.500	6.070	34.697	6.097	0.57%	0.44%	± 5%	
6505		34.494	6.076	34.684	6.101	0.55%	0.41%	± 5%	
6500	22.5°C	34.500	6.070	34.687	6.099	0.54%	0.48%	± 5%	Jul. 06, 2022
6665		34.302	6.261	34.498	6.283	0.57%	0.34%	± 5%	
6825		34.110	6.447	34.301	6.472	0.56%	0.39%	± 5%	
6985		33.918	6.633	34.132	6.661	0.63%	0.43%	± 5%	
7000		33.900	6.650	34.117	6.676	0.64%	0.39%	± 5%	

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Measured Frequency (MHz)	Liquid Temp. (°C)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
2412	22.7°C	39.268	1.766	39.059	1.759	-0.53%	-0.41%	± 5%	Jul. 07, 2022
2437		39.223	1.788	39.015	1.782	-0.53%	-0.36%	± 5%	
2450		39.200	1.800	38.988	1.792	-0.54%	-0.44%	± 5%	
2462		39.179	1.811	38.975	1.804	-0.52%	-0.37%	± 5%	
2480		39.162	1.833	38.974	1.826	-0.48%	-0.37%	± 5%	
5210	22.6°C	35.974	4.665	35.769	4.645	-0.57%	-0.43%	± 5%	Jul. 08, 2022
5230		35.951	4.686	35.721	4.667	-0.64%	-0.40%	± 5%	
5250		35.929	4.706	35.706	4.689	-0.62%	-0.37%	± 5%	
5270		35.906	4.727	35.690	4.706	-0.60%	-0.44%	± 5%	
5290		35.883	4.747	35.664	4.731	-0.61%	-0.34%	± 5%	
5310	22.4°C	35.860	4.768	35.663	4.750	-0.55%	-0.37%	± 5%	Jul. 09, 2022
5530		35.609	4.993	35.377	4.972	-0.65%	-0.43%	± 5%	
5570		35.563	5.034	35.339	5.012	-0.63%	-0.44%	± 5%	
5600		35.529	5.065	35.298	5.044	-0.65%	-0.41%	± 5%	
5610		35.517	5.075	35.318	5.052	-0.56%	-0.46%	± 5%	
5690	22.6°C	35.426	5.157	35.227	5.137	-0.56%	-0.39%	± 5%	Jul. 10, 2022
5750		35.357	5.219	35.149	5.199	-0.59%	-0.38%	± 5%	
5775		35.329	5.244	35.099	5.224	-0.65%	-0.39%	± 5%	
5795		35.306	5.265	35.097	5.245	-0.59%	-0.38%	± 5%	

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3.4 The composition of the tissue simulating liquid:

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

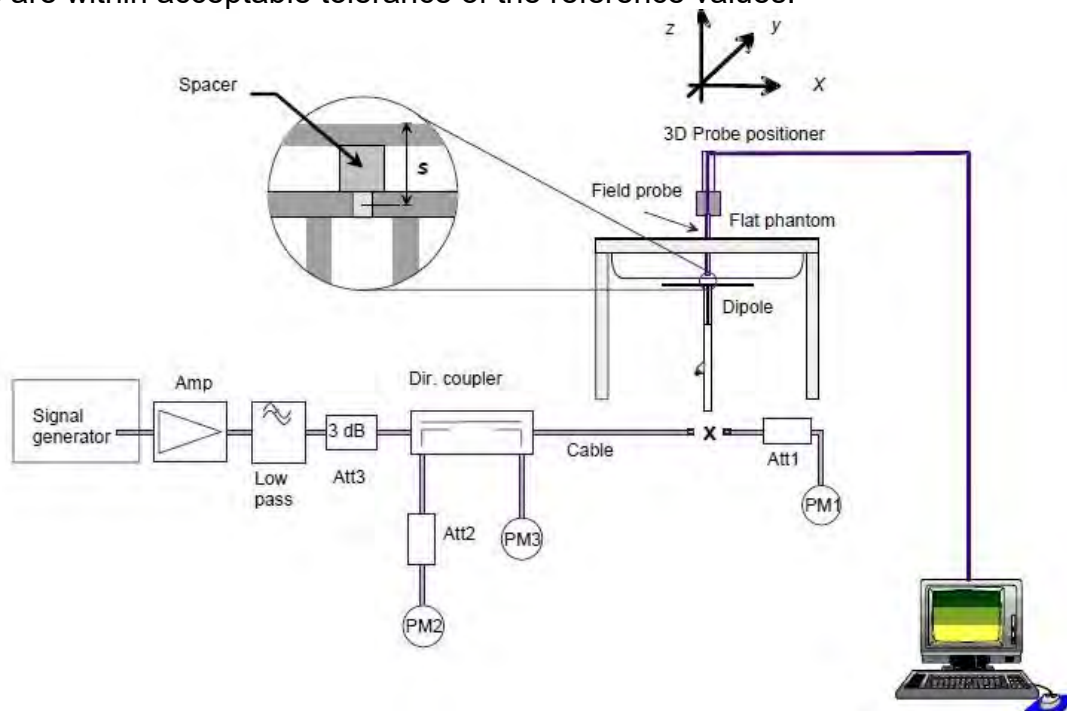
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

3.5 System check

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

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

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



The block diagram of system check

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3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.8	12.5	50	-5.30	± 10%	Jul.01,2022
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	81	8.74	87.4	7.90	± 10%	Jul.02,2022
D5GHzV2	1023	5600	84.4	8.44	84.4	0.00	± 10%	Jul.03,2022
D5GHzV2	1023	5750	81	8.57	85.7	5.80	± 10%	Jul.04,2022

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	52.8	13.2	52.8	0.00	± 10%	Jul.07,2022
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	81	8.71	87.1	7.53	± 10%	Jul.08,2022
D5GHzV2	1023	5600	84.4	8.42	84.2	-0.24	± 10%	Jul.09,2022
D5GHzV2	1023	5750	81	7.35	73.5	-9.26	± 10%	Jul.10,2022

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	291	28.9	289	-0.69	± 10%	Jul.05,2022
D6.5GHzV2	1006	6500	291	30.2	302	3.78	± 10%	Jul.06,2022
D7GHzV2	1007	7000	275	25.2	252	-8.36	± 10%	Jul.06,2022

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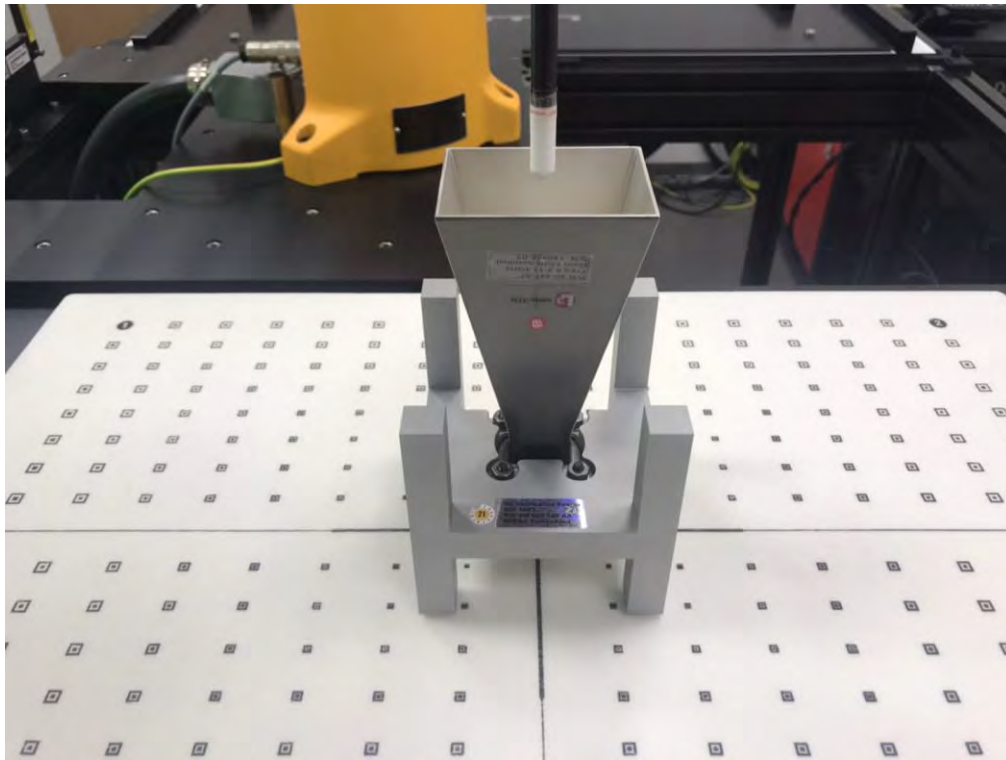
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4 PD SYSTEM VERIFICATION

4.1 System check

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

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



System Verification Setup Photo

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4.2 System check result

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

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm^2 (W/m^2)	Target 4cm^2 (W/m^2)	Deviation (dB)	Date
10000	10000	9399	1665	10	86.1	51.2	51.7	-0.04	Jul.11,2022

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5 TEST CONFIGURATIONS

5.1 Test Environment

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

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

5.2 Test Note

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

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

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

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

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

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

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

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5.3 Test position

Mode 1 SAR test position (0mm)

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 device display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

Mode 2 SAR test position (0mm)

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

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5.4 Test limit

§ 2.1093(d)(1)

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

Radiofrequency radiation exposure limits.

§ 1.1310(a)

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

§ 1.1310(b)

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

§ 1.1310(c)

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

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation

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

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

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

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

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

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

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

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6 MAXIMUM OUTPUT POWER

6.1 WLAN

AWAN

Mode 1

chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	21.00	20.99
		2	2417		21.00	20.82
		6	2437		21.00	20.97
		10	2457		21.00	20.88
		11	2462		21.00	20.96
		12	2467		20.00	19.76
		13	2472		17.50	17.24
	802.11g	1	2412	6Mbps	18.00	17.80
		2	2417		20.00	19.82
		6	2437		21.00	20.84
		10	2457		19.75	19.46
		11	2462		17.75	17.50
		12	2467		15.50	15.35
		13	2472		12.50	12.36
	802.11n20-HT0	1	2412	MCS0	18.00	17.83
		2	2417		20.00	19.76
		6	2437		21.00	20.73
		10	2457		19.75	19.52
		11	2462		17.75	17.46
		12	2467		15.50	15.22
		13	2472		12.50	12.34
	802.11ac20-VHT0	1	2412	MCS0	18.00	17.90
		2	2417		20.00	19.73
		6	2437		21.00	20.84
		10	2457		19.75	19.55
		11	2462		17.75	17.54
	802.11ax20-HE0_RU_52/37	1	2412	MCS0	20.50	20.35
	802.11ax20-HE0_RU_52/37	2	2417		20.75	20.60
	802.11ax20-HE0	6	2437		21.00	20.79
	802.11ax20-HE0_RU_106/54	10	2457		20.25	20.09
	802.11ax20-HE0_RU_52/40	11	2462		19.50	19.48
	802.11ax20-HE0_RU_26/8	12	2467		18.25	18.09
	802.11ax20-HE0	13	2472		12.50	12.25
	802.11n40-HT0	3	2422	MCS0	16.50	16.39
		4	2427		17.00	16.83
		6	2437		17.25	17.10
		8	2447		17.50	17.25
		9	2452		17.50	17.31
		10	2457		13.00	12.75
	802.11ac40-VHT0	11	2462		11.50	11.28
		3	2422	MCS0	16.50	16.31
		4	2427		17.00	16.81
		6	2437		17.25	16.98
		8	2447		17.50	17.34
		9	2452		17.50	17.31
	802.11ax40-HE0_RU_242/61	3	2422	MCS0	17.00	16.34
	802.11ax40-HE0_RU_242/61	4	2427		19.75	19.65
	802.11ax40-HE0_RU_242/61	6	2437		19.00	18.86
	802.11ax40-HE0_RU_242/61	8	2447		18.50	18.33
	802.11ax40-HE0	9	2452		17.50	17.34

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	20.00	19.90
		40	5200		21.00	20.83
		44	5220		21.00	20.71
		48	5240		21.00	20.85
	802.11n20-HT0	36	5180	MCS0	20.00	19.85
		40	5200		21.00	20.73
		44	5220		21.00	20.74
		48	5240		21.00	20.74
	802.11ac20-VHT0	36	5180	MCS0	20.00	19.83
		40	5200		21.00	20.75
		44	5220		21.00	20.73
		48	5240		21.00	20.85
	802.11ax20-HE0	36	5180	MCS0	20.00	19.72
		40	5200		21.00	20.89
		44	5220		21.00	20.72
		48	5240		21.00	20.75
	802.11n40-HT0	38	5190	MCS0	18.50	18.34
		46	5230		21.00	20.99
	802.11ac40-VHT0	38	5190	MCS0	18.50	18.21
		46	5230		21.00	20.71
	802.11ax40-HE0_RU_242/61	38	5190	MCS0	20.25	20.10
	802.11ax40-HE0	46	5230		21.00	20.75
	802.11ac80-VHT0	42	5210	MCS0	17.50	17.22
	802.11ax80-HE0_RU_484/65	42	5210	MCS0	18.25	18.25
	802.11ac160-VHT0	50	5250	MCS0	14.00	13.76
	802.11ax160-HE0_RU_996/67	50	5250	MCS0	16.75	16.63

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	21.00	20.78
		56	5280		21.00	20.70
		60	5300		21.00	20.88
		64	5320		20.50	20.37
	802.11n20-HT0	52	5260	MCS0	21.00	20.83
		56	5280		21.00	20.78
		60	5300		21.00	20.76
		64	5320		20.50	20.38
	802.11ac20-VHT0	52	5260	MCS0	21.00	20.83
		56	5280		21.00	20.78
		60	5300		21.00	20.79
		64	5320		20.50	20.34
	802.11ax20-HE0	52	5260	MCS0	21.00	20.89
		56	5280		21.00	20.78
		60	5300		21.00	20.79
		64	5320		20.50	20.37
	802.11n40-HT0	54	5270	MCS0	21.00	20.98
		62	5310		17.00	16.75
	802.11ac40-VHT0	54	5270	MCS0	21.00	19.00
		62	5310		17.00	16.82
	802.11ax40-HE0	54	5270	MCS0	21.00	19.00
	802.11ax40-HE0_RU_242/62	62	5310		20.00	18.91
	802.11ac80-VHT0	58	5290	MCS0	17.50	17.31
	802.11ax80-HE0	58	5290	MCS0	17.75	17.46

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	20.50	20.20
		104	5520		20.75	20.49
		116	5580		21.00	20.81
		120	5600		21.00	20.76
		136	5680		21.00	20.90
		140	5700		20.50	20.28
		144	5720		21.00	20.48
	802.11n20-HT0	100	5500	MCS0	20.50	20.24
		104	5520		20.75	20.48
		116	5580		21.00	20.72
		120	5600		21.00	20.81
		136	5680		21.00	20.75
		140	5700		20.50	20.20
		144	5720		21.00	20.44
	802.11ac20-VHT0	100	5500	MCS0	20.50	20.28
		104	5520		20.75	20.50
		116	5580		21.00	20.74
		120	5600		21.00	20.84
		136	5680		21.00	20.74
		140	5700		20.50	20.21
		144	5720		21.00	20.43
	802.11ax20-HE0	100	5500	MCS0	20.50	20.30
		104	5520		20.75	20.62
		116	5580		21.00	20.83
		120	5600		21.00	20.77
		136	5680		21.00	20.77
		140	5700		20.50	20.37
		144	5720		21.00	20.36
	802.11n40-HT0	102	5510	MCS0	20.25	20.12
		110	5550		21.00	20.76
		118	5590		21.00	20.81
		134	5670		21.00	20.88
		142	5710		21.00	20.56
	802.11ac40-VHT0	102	5510	MCS0	20.25	20.13
		110	5550		21.00	20.79
		118	5590		21.00	20.74
		134	5670		21.00	20.90
		142	5710		21.00	20.50
	802.11ax40-HE0_RU_242/61	102	5510	MCS0	20.50	20.43
	802.11ax40-HE0	110	5550		21.00	20.85
	802.11ax40-HE0	118	5590		21.00	20.89
	802.11ax40-HE0	134	5670		21.00	20.79
	802.11ax40-HE0	142	5710		21.00	20.86
	802.11ac80-VHT0	106	5530	MCS0	18.50	17.61
		122	5610		21.00	20.95
		138	5690		21.00	20.93
	802.11ax80-HE0_RU_484/65	106	5530	MCS0	19.50	17.69
	802.11ax80-HE0	122	5610		21.00	20.84
	802.11ax80-HE0	138	5690		21.00	20.85
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.88
	802.11ax160-HE0_RU_996/s67	114	5570	MCS0	21.00	20.98

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chainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	20.72
		157	5785		21.00	20.86
		165	5825		21.00	20.79
	802.11n20-HT0	149	5745	MCS0	21.00	20.78
		157	5785		21.00	20.75
		165	5825		21.00	20.83
	802.11ac20-VHT0	149	5745	MCS0	21.00	20.70
		157	5785		21.00	20.89
		165	5825		21.00	20.76
	802.11ax20-HE0	149	5745	MCS0	21.00	20.72
		157	5785		21.00	20.73
		165	5825		21.00	20.70
	802.11n40-HT0	151	5755	MCS0	21.00	20.74
		159	5795		21.00	20.74
	802.11ac40-VHT0	151	5755	MCS0	21.00	20.81
		159	5795		21.00	20.89
	802.11ax40-HE0	151	5755	MCS0	21.00	20.82
		159	5795		21.00	20.72
	802.11ac80-VHT0	155	5775	MCS0	21.00	20.93
	802.11ax80-HE0	155	5775	MCS0	21.00	20.89

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	21.00	20.93
		2	2417		21.00	20.72
		6	2437		21.00	20.91
		10	2457		21.00	20.89
		11	2462		21.00	20.95
		12	2467		19.75	19.48
		13	2472		16.50	16.21
	802.11g	1	2412	6Mbps	18.50	18.36
		2	2417		20.25	20.03
		6	2437		21.00	20.87
		10	2457		20.00	19.88
		11	2462		18.00	17.75
		12	2467		15.50	15.25
		13	2472		12.50	12.40
	802.11n20-HT0	1	2412	MCS0	18.50	18.35
		2	2417		20.25	20.00
		6	2437		21.00	20.82
		10	2457		20.00	19.80
		11	2462		18.00	17.79
		12	2467		15.50	15.29
		13	2472		12.50	12.37
	802.11ac20-VHT0	1	2412	MCS0	18.50	18.21
		2	2417		20.25	20.02
		6	2437		21.00	20.71
		10	2457		20.00	19.90
		11	2462		18.00	17.78
	802.11ax20-HE0_RU_106/53	1	2412	MCS0	20.50	20.40
	802.11ax20-HE0_RU_52/37	2	2417		20.75	20.58
	802.11ax20-HE0	6	2437		21.00	20.87
	802.11ax20-HE0_RU_52/40	10	2457		20.50	20.31
	802.11ax20-HE0_RU_106/54	11	2462		19.50	19.32
	802.11ax20-HE0_RU_26/8	12	2467		18.00	17.81
	802.11ax20-HE0	13	2472		12.50	12.22
	802.11n40-HT0	3	2422	MCS0	15.75	15.60
		4	2427		16.75	16.52
		6	2437		18.00	17.85
		8	2447		16.00	15.74
		9	2452		16.00	15.90
		10	2457		12.75	12.62
		11	2462		10.25	10.11
	802.11ac40-VHT0	3	2422	MCS0	15.75	15.59
		4	2427		16.75	16.61
		6	2437		18.00	17.88
		8	2447		16.00	15.76
		9	2452		16.00	15.80
	802.11ax40-HE0_RU_242/61	3	2422	MCS0	18.00	17.96
	802.11ax40-HE0_RU_242/61	4	2427		19.50	19.49
	802.11ax40-HE0_RU_242/61	6	2437		19.25	19.24
	802.11ax40-HE0_RU_242/61	8	2447		18.75	18.71
	802.11ax40-HE0_RU_242/61	9	2452		16.25	16.15

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	20.00	19.76
		40	5200		20.75	20.63
		44	5220		21.00	20.71
		48	5240		21.00	20.86
	802.11n20-HT0	36	5180	MCS0	20.00	19.74
		40	5200		20.75	20.61
		44	5220		21.00	20.72
		48	5240		21.00	20.87
	802.11ac20-VHT0	36	5180	MCS0	20.00	19.71
		40	5200		20.75	20.51
		44	5220		21.00	20.83
		48	5240		21.00	20.71
	802.11ax20-HE0	36	5180	MCS0	20.00	19.73
		40	5200		20.75	20.58
		44	5220		21.00	20.73
		48	5240		21.00	20.79
	802.11n40-HT0	38	5190	MCS0	18.50	18.29
		46	5230		21.00	20.97
	802.11ac40-VHT0	38	5190	MCS0	18.50	18.32
		46	5230		21.00	20.79
	802.11ax40-HE0_RU_242/61	38	5190	MCS0	20.25	20.21
	802.11ax40-HE0	46	5230		21.00	20.72
	802.11ac80-VHT0	42	5210	MCS0	17.75	17.60
	802.11ax80-HE0_RU_484/65	42	5210	MCS0	18.00	18.00
	802.11ac160-VHT0	50	5250	MCS0	14.00	13.71
	802.11ax160-HE0_RU_996/67	50	5250	MCS0	17.00	16.91

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	21.00	20.73
		56	5280		21.00	20.88
		60	5300		21.00	20.81
		64	5320		20.25	20.13
	802.11n20-HT0	52	5260	MCS0	21.00	20.85
		56	5280		21.00	20.90
		60	5300		21.00	20.85
		64	5320		20.25	20.06
	802.11ac20-VHT0	52	5260	MCS0	21.00	20.84
		56	5280		21.00	20.70
		60	5300		21.00	20.71
		64	5320		20.25	20.00
	802.11ax20-HE0	52	5260	MCS0	21.00	20.77
		56	5280		21.00	20.82
		60	5300		21.00	20.75
		64	5320		20.50	20.23
	802.11n40-HT0	54	5270	MCS0	21.00	20.95
		62	5310		17.25	17.06
	802.11ac40-VHT0	54	5270	MCS0	21.00	19.00
		62	5310		17.25	17.07
	802.11ax40-HE0	54	5270	MCS0	21.00	19.00
	802.11ax40-HE0_RU_242/62	62	5310		20.25	18.97
	802.11ac80-VHT0	58	5290	MCS0	17.50	17.38
	802.11ax80-HE0	58	5290	MCS0	17.50	17.30

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	20.25	20.05
		104	5520		21.00	20.89
		116	5580		20.25	20.07
		120	5600		21.00	20.72
		136	5680		21.00	20.72
		140	5700		20.25	19.96
		144	5720		21.00	20.41
	802.11n20-HT0	100	5500	MCS0	20.25	20.12
		104	5520		21.00	20.70
		116	5580		21.00	20.79
		120	5600		21.00	20.74
		136	5680		21.00	20.81
		140	5700		20.50	20.35
		144	5720		21.00	20.46
	802.11ac20-VHT0	100	5500	MCS0	20.50	20.21
		104	5520		20.75	20.55
		116	5580		21.00	20.73
		120	5600		21.00	20.90
		136	5680		21.00	20.83
		140	5700		20.50	20.21
		144	5720		21.00	20.47
	802.11ax20-HE0	100	5500	MCS0	20.25	20.14
		104	5520		21.00	20.84
		116	5580		21.00	20.80
		120	5600		21.00	20.88
		136	5680		21.00	20.81
		140	5700		20.50	20.28
		144	5720		21.00	20.37
	802.11n40-HT0	102	5510	MCS0	19.75	19.52
		110	5550		21.00	20.81
		118	5590		21.00	20.71
		134	5670		21.00	20.71
		142	5710		21.00	20.55
	802.11ac40-VHT0	102	5510	MCS0	19.75	19.61
		110	5550		21.00	20.72
		118	5590		21.00	20.81
		134	5670		21.00	20.81
		142	5710		21.00	20.59
	802.11ax40-HE0_RU_242/61	102	5510	MCS0	20.50	20.31
	802.11ax40-HE0	110	5550		21.00	20.76
	802.11ax40-HE0	118	5590		21.00	20.84
	802.11ax40-HE0	134	5670		21.00	20.73
	802.11ax40-HE0	142	5710		21.00	20.77
	802.11ac80-VHT0	106	5530	MCS0	18.50	17.60
		122	5610		21.00	20.86
		138	5690		21.00	20.99
	802.11ax80-HE0_RU_484/65	106	5530	MCS0	19.00	17.61
	802.11ax80-HE0	122	5610		21.00	20.79
	802.11ax80-HE0	138	5690		21.00	20.83
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.76
	802.11ax160-HE0_RU_996/s67	114	5570	MCS0	21.00	20.82

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chainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	20.81
		157	5785		21.00	20.71
		165	5825		21.00	20.75
	802.11n20-HT0	149	5745	MCS0	21.00	20.71
		157	5785		21.00	20.86
		165	5825		21.00	20.78
	802.11ac20-VHT0	149	5745	MCS0	21.00	20.78
		157	5785		21.00	20.70
		165	5825		21.00	20.76
	802.11ax20-HE0	149	5745	MCS0	21.00	20.80
		157	5785		21.00	20.82
		165	5825		21.00	20.76
	802.11n40-HT0	151	5755	MCS0	21.00	20.77
		159	5795		21.00	20.72
	802.11ac40-VHT0	151	5755	MCS0	21.00	20.75
		159	5795		21.00	20.76
	802.11ax40-HE0	151	5755	MCS0	21.00	20.82
		159	5795		21.00	20.80
	802.11ac80-VHT0	155	5775	MCS0	21.00	20.97
	802.11ax80-HE0	155	5775	MCS0	21.00	20.88

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11n20-HT0	1	2412	MCS0	16.50	15.35
		2	2417		18.00	16.98
		6	2437		21.00	19.99
		10	2457		19.50	18.49
		11	2462		16.00	14.84
		12	2467		12.00	10.93
		13	2472		9.00	7.97
	802.11ac20-VHT0	1	2412	MCS0	16.50	15.42
		2	2417		18.00	16.96
		6	2437		21.00	19.88
		10	2457		19.50	18.46
		11	2462		16.00	14.85
	802.11ax20-HE0	1	2412	MCS0	19.50	18.41
		2	2417		20.25	19.24
		6	2437		21.00	19.96
		10	2457		19.75	18.71
		11	2462		18.75	17.64
		12	2467		16.00	14.94
		13	2472		9.00	7.88
	802.11n40-HT0	3	2422	MCS0	15.00	13.97
		4	2427		15.75	14.61
		6	2437		15.75	14.72
		8	2447		15.00	13.82
		9	2452		14.75	13.59
		10	2457		12.00	10.89
	802.11ac40-VHT0	11	2462	MCS0	9.00	7.87
		3	2422		15.00	13.85
		4	2427		15.75	14.70
		6	2437		15.75	14.70
		8	2447		15.00	13.88
	802.11ax40-HE0	9	2452	MCS0	14.75	13.75
		3	2422		16.25	15.10
		4	2427		17.50	16.48
		6	2437		19.25	18.16
		8	2447		18.25	17.06
		9	2452		14.75	13.61

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11n20-HT0	36	5180	MCS0	18.00	16.99
		40	5200		19.00	17.92
		44	5220		19.00	17.82
		48	5240		19.00	17.97
	802.11ac20-VHT0	36	5180	MCS0	18.00	16.90
		40	5200		19.00	17.92
		44	5220		19.00	17.99
		48	5240		19.00	17.83
	802.11ax20-HE0	36	5180	MCS0	18.00	16.94
		40	5200		19.00	17.90
		44	5220		19.00	17.87
		48	5240		19.00	18.00
	802.11n40-HT0	38	5190	MCS0	16.00	14.92
		46	5230		21.00	19.94
	802.11ac40-VHT0	38	5190	MCS0	16.00	14.92
		46	5230		21.00	19.83
	802.11ax40-HE0	38	5190	MCS0	18.00	16.88
		46	5230		21.00	19.82
	802.11ac80-VHT0	42	5210	MCS0	15.00	13.84
	802.11ax80-HE0	42	5210	MCS0	16.00	14.92
	802.11ac160-VHT0	50	5250	MCS0	12.00	10.98
	802.11ax160-HE0	50	5250	MCS0	15.25	14.18

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11n20-HT0	52	5260	MCS0	19.00	17.97
		56	5280		19.00	17.92
		60	5300		19.00	17.99
		64	5320		18.50	17.45
	802.11ac20-VHT0	52	5260	MCS0	19.00	17.84
		56	5280		19.00	17.84
		60	5300		19.00	17.95
		64	5320		18.50	17.38
	802.11ax20-HE0	52	5260	MCS0	19.00	17.86
		56	5280		19.00	17.98
		60	5300		19.00	17.85
		64	5320		18.50	17.35
	802.11n40-HT0	54	5270	MCS0	21.00	19.84
		62	5310		16.25	15.06
	802.11ac40-VHT0	54	5270	MCS0	21.00	19.83
		62	5310		16.25	15.21
	802.11ax40-HE0	54	5270	MCS0	21.00	19.85
	802.11ax40-HE0	62	5310		17.25	16.10
	802.11ac80-VHT0	58	5290	MCS0	16.25	15.15
	802.11ax80-HE0	58	5290	MCS0	20.50	19.48

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11n20-HT0	100	5500	MCS0	19.00	17.98
		104	5520		19.00	17.99
		116	5580		19.00	17.93
		120	5600		19.00	17.81
		136	5680		19.00	17.90
		140	5700		18.50	17.33
		144	5720		21.00	19.90
	802.11ac20-VHT0	100	5500	MCS0	19.00	17.86
		104	5520		19.00	17.94
		116	5580		19.00	17.89
		120	5600		19.00	17.98
		136	5680		19.00	17.97
		140	5700		18.50	17.41
		144	5720		21.00	20.00
	802.11ax20-HE0	100	5500	MCS0	19.00	17.95
		104	5520		19.00	17.81
		116	5580		19.00	17.97
		120	5600		19.00	17.83
		136	5680		19.00	17.90
		140	5700		18.50	17.32
		144	5720		21.00	19.85
	802.11n40-HT0	102	5510	MCS0	18.00	16.93
		110	5550		21.00	19.98
		118	5590		21.00	19.88
		134	5670		19.75	18.64
		142	5710		18.50	17.39
	802.11ac40-VHT0	102	5510	MCS0	18.00	16.96
		110	5550		21.00	19.89
		118	5590		21.00	19.98
		134	5670		19.75	18.72
		142	5710		18.50	17.36
	802.11ax40-HE0	102	5510	MCS0	19.00	17.97
		110	5550		21.00	19.93
		118	5590		21.00	19.95
		134	5670		19.75	18.59
		142	5710		18.50	17.30
	802.11ac80-VHT0	106	5530	MCS0	16.00	14.99
		122	5610		21.00	19.93
		138	5690		21.00	19.86
	802.11ax80-HE0	106	5530	MCS0	16.25	15.23
		122	5610		21.00	19.84
		138	5690		21.00	19.96
	802.11ac160-VHT0	114	5570	MCS0	15.00	13.87
	802.11ax160-HE0	114	5570	MCS0	19.50	18.35

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Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11n20-HT0	149	5745	MCS0	21.00	19.93
		157	5785		21.00	19.93
		165	5825		21.00	19.95
	802.11ac20-VHT0	149	5745	MCS0	21.00	19.92
		157	5785		21.00	19.93
		165	5825		21.00	19.83
	802.11ax20-HE0	149	5745	MCS0	21.00	19.95
		157	5785		21.00	19.96
		165	5825		21.00	19.89
	802.11n40-HT0	151	5755	MCS0	21.00	19.96
		159	5795		21.00	19.98
	802.11ac40-VHT0	151	5755	MCS0	21.00	19.99
		159	5795		21.00	19.96
	802.11ax40-HE0	151	5755	MCS0	21.00	19.83
		159	5795		21.00	19.99
	802.11ac80-VHT0	155	5775	MCS0	20.00	18.83
	802.11ax80-HE0	155	5775	MCS0	21.00	19.93

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11n20-HT0	1	2412	MCS0	16.50	15.48
		2	2417		18.00	17.00
		6	2437		21.00	19.97
		10	2457		19.50	18.37
		11	2462		16.00	14.81
		12	2467		12.00	10.89
		13	2472		9.00	7.86
	802.11ac20-VHT0	1	2412	MCS0	16.50	15.46
		2	2417		18.00	16.89
		6	2437		21.00	19.99
		10	2457		19.50	18.38
		11	2462		16.00	14.81
	802.11ax20-HE0	1	2412	MCS0	19.50	18.35
		2	2417		20.25	19.06
		6	2437		21.00	19.99
		10	2457		19.75	18.63
		11	2462		18.75	17.57
		12	2467		16.00	14.92
		13	2472		9.00	7.86
	802.11n40-HT0	3	2422	MCS0	15.00	13.80
		4	2427		15.75	14.65
		6	2437		15.75	14.61
		8	2447		15.00	13.88
		9	2452		14.75	13.68
		10	2457		12.00	10.96
		11	2462		9.00	7.95
	802.11ac40-VHT0	3	2422	MCS0	15.00	13.91
		4	2427		15.75	14.66
		6	2437		15.75	14.75
		8	2447		15.00	13.99
		9	2452		14.75	13.75
	802.11ax40-HE0	3	2422	MCS0	16.25	15.16
		4	2427		17.50	16.40
		6	2437		19.25	18.18
		8	2447		18.25	17.10
		9	2452		14.75	13.63

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11n20-HT0	36	5180	MCS0	18.00	16.91
		40	5200		19.00	17.84
		44	5220		19.00	17.81
		48	5240		19.00	17.93
	802.11ac20-VHT0	36	5180	MCS0	18.00	16.86
		40	5200		19.00	17.80
		44	5220		19.00	17.82
		48	5240		19.00	17.94
	802.11ax20-HE0	36	5180	MCS0	18.00	16.97
		40	5200		19.00	17.82
		44	5220		19.00	17.90
		48	5240		19.00	17.80
	802.11n40-HT0	38	5190	MCS0	16.00	14.96
		46	5230		21.00	19.96
	802.11ac40-VHT0	38	5190	MCS0	16.00	14.84
		46	5230		21.00	19.99
	802.11ax40-HE0	38	5190	MCS0	18.00	16.88
		46	5230		21.00	19.98
	802.11ac80-VHT0	42	5210	MCS0	15.00	13.89
	802.11ax80-HE0	42	5210	MCS0	16.00	14.95
	802.11ac160-VHT0	50	5250	MCS0	12.00	10.94
	802.11ax160-HE0	50	5250	MCS0	15.25	14.22

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11n20-HT0	52	5260	MCS0	19.00	17.93
		56	5280		19.00	17.97
		60	5300		19.00	17.99
		64	5320		18.50	17.48
	802.11ac20-VHT0	52	5260	MCS0	19.00	17.81
		56	5280		19.00	17.87
		60	5300		19.00	17.85
		64	5320		18.50	17.40
	802.11ax20-HE0	52	5260	MCS0	19.00	17.87
		56	5280		19.00	17.90
		60	5300		19.00	17.90
		64	5320		18.50	17.50
	802.11n40-HT0	54	5270	MCS0	21.00	19.88
		62	5310		16.25	15.19
	802.11ac40-VHT0	54	5270	MCS0	21.00	19.87
		62	5310		16.25	15.09
	802.11ax40-HE0	54	5270	MCS0	21.00	19.89
	802.11ax40-HE0	62	5310		17.25	16.15
	802.11ac80-VHT0	58	5290	MCS0	16.25	15.08
	802.11ax80-HE0	58	5290	MCS0	20.50	19.47

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11n20-HT0	100	5500	MCS0	19.00	17.83
		104	5520		19.00	17.95
		116	5580		19.00	17.87
		120	5600		19.00	17.91
		136	5680		19.00	18.00
		140	5700		18.50	17.39
		144	5720		21.00	19.95
	802.11ac20-VHT0	100	5500	MCS0	19.00	18.00
		104	5520		19.00	17.93
		116	5580		19.00	17.80
		120	5600		19.00	17.99
		136	5680		19.00	17.84
		140	5700		18.50	17.50
		144	5720		21.00	19.87
	802.11ax20-HE0	100	5500	MCS0	19.00	17.80
		104	5520		19.00	17.87
		116	5580		19.00	17.97
		120	5600		19.00	17.97
		136	5680		19.00	17.88
		140	5700		18.50	17.40
		144	5720		21.00	19.93
	802.11n40-HT0	102	5510	MCS0	18.00	16.95
		110	5550		21.00	19.96
		118	5590		21.00	19.92
		134	5670		19.75	18.67
		142	5710		18.50	17.30
	802.11ac40-VHT0	102	5510	MCS0	18.00	16.95
		110	5550		21.00	19.95
		118	5590		21.00	19.96
		134	5670		19.75	18.67
		142	5710		18.50	17.33
	802.11ax40-HE0	102	5510	MCS0	19.00	17.97
		110	5550		21.00	19.88
		118	5590		21.00	19.93
		134	5670		19.75	18.68
		142	5710		18.50	17.45
	802.11ac80-VHT0	106	5530	MCS0	16.00	14.99
		122	5610		21.00	19.83
		138	5690		21.00	19.97
	802.11ax80-HE0	106	5530	MCS0	16.25	15.11
		122	5610		21.00	19.88
		138	5690		21.00	19.89
	802.11ac160-VHT0	114	5570	MCS0	15.00	13.90
	802.11ax160-HE0	114	5570	MCS0	19.50	18.42

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chainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11n20-HT0	149	5745	MCS0	21.00	19.89
		157	5785		21.00	19.81
		165	5825		21.00	19.87
	802.11ac20-VHT0	149	5745	MCS0	21.00	19.83
		157	5785		21.00	19.84
		165	5825		21.00	19.90
	802.11ax20-HE0	149	5745	MCS0	21.00	19.81
		157	5785		21.00	19.90
		165	5825		21.00	19.97
	802.11n40-HT0	151	5755	MCS0	21.00	19.97
		159	5795		21.00	19.81
	802.11ac40-VHT0	151	5755	MCS0	21.00	19.83
		159	5795		21.00	19.92
	802.11ax40-HE0	151	5755	MCS0	21.00	19.83
		159	5795		21.00	19.87
	802.11ac80-VHT0	155	5775	MCS0	20.00	18.87
	802.11ax80-HE0	155	5775	MCS0	21.00	19.93

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Mode 2

chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.00	15.99
		2	2417		16.00	15.76
		6	2437		16.00	15.95
		10	2457		16.00	15.90
		11	2462		16.00	15.98
		12	2467		16.00	15.85
		13	2472		16.00	15.88
	802.11g	1	2412	6Mbps	16.00	15.80
		2	2417		16.00	15.82
		6	2437		16.00	15.77
		10	2457		16.00	15.87
		11	2462		16.00	15.80
		12	2467		15.50	15.35
		13	2472		12.50	12.40
	802.11n20-HT0	1	2412	MCS0	16.00	15.89
		2	2417		16.00	15.86
		6	2437		16.00	15.81
		10	2457		16.00	15.74
		11	2462		16.00	15.74
		12	2467		15.50	15.30
		13	2472		12.50	12.30
	802.11ac20-VHT0	1	2412	MCS0	16.00	15.84
		2	2417		16.00	15.80
		6	2437		16.00	15.80
		10	2457		16.00	15.90
		11	2462		16.00	15.88
	802.11ax20-HE0	1	2412	MCS0	16.00	15.89
	802.11ax20-HE0	2	2417		16.00	15.76
	802.11ax20-HE0	6	2437		16.00	15.86
	802.11ax20-HE0	10	2457		16.00	15.83
	802.11ax20-HE0	11	2462		16.00	15.78
	802.11ax20-HE0_RU_26/8	12	2467		16.00	15.34
	802.11ax20-HE0	13	2472		12.50	12.32
	802.11n40-HT0	3	2422	MCS0	16.00	15.73
		4	2427		16.00	15.87
		6	2437		16.00	15.75
		8	2447		16.00	15.76
		9	2452		16.00	15.87
		10	2457		13.00	12.70
		11	2462		11.50	11.39
	802.11ac40-VHT0	3	2422	MCS0	16.00	15.76
		4	2427		16.00	15.71
		6	2437		16.00	15.75
		8	2447		16.00	15.85
		9	2452		16.00	15.70
	802.11ax40-HE0	3	2422	MCS0	16.00	15.85
		4	2427		16.00	15.89
		6	2437		16.00	15.82
		8	2447		16.00	15.82
		9	2452		16.00	15.78

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	12.50	12.23
		40	5200		12.50	12.15
		44	5220		12.50	12.13
		48	5240		12.50	12.26
	802.11n20-HT0	36	5180	MCS0	12.50	12.28
		40	5200		12.50	12.16
		44	5220		12.50	12.14
		48	5240		12.50	12.19
	802.11ac20-VHT0	36	5180	MCS0	12.50	12.29
		40	5200		12.50	12.19
		44	5220		12.50	12.14
		48	5240		12.50	12.18
	802.11ax20-HE0	36	5180	MCS0	12.50	12.12
		40	5200		12.50	12.17
		44	5220		12.50	12.23
		48	5240		12.50	12.29
	802.11n40-HT0	38	5190	MCS0	12.50	12.15
		46	5230		12.50	12.20
	802.11ac40-VHT0	38	5190	MCS0	12.50	12.19
		46	5230		12.50	12.13
	802.11ax40-HE0	38	5190	MCS0	12.50	12.16
		46	5230		12.50	12.28
	802.11ac80-VHT0	42	5210	MCS0	12.50	12.44
	802.11ax80-HE0	42	5210	MCS0	12.50	12.21
	802.11ac160-VHT0	50	5250	MCS0	12.50	12.41
	802.11ax160-HE0	50	5250	MCS0	12.50	12.16

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	12.50	12.24
		56	5280		12.50	12.17
		60	5300		12.50	12.20
		64	5320		12.50	12.30
	802.11n20-HT0	52	5260	MCS0	12.50	12.24
		56	5280		12.50	12.17
		60	5300		12.50	12.13
		64	5320		12.50	12.21
	802.11ac20-VHT0	52	5260	MCS0	12.50	12.24
		56	5280		12.50	12.18
		60	5300		12.50	12.17
		64	5320		12.50	12.19
	802.11ax20-HE0	52	5260	MCS0	12.50	12.28
		56	5280		12.50	12.13
		60	5300		12.50	12.17
		64	5320		12.50	12.12
	802.11n40-HT0	54	5270	MCS0	12.50	12.43
		62	5310		12.50	12.45
	802.11ac40-VHT0	54	5270	MCS0	12.50	12.13
		62	5310		12.50	12.23
	802.11ax40-HE0	54	5270	MCS0	12.50	12.17
		62	5310		12.50	12.18
	802.11ac80-VHT0	58	5290	MCS0	12.50	12.49
	802.11ax80-HE0	58	5290	MCS0	12.50	12.19

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	12.00	11.76
		104	5520		12.00	11.65
		116	5580		12.00	11.72
		120	5600		12.00	11.64
		136	5680		12.00	11.63
		140	5700		12.00	11.80
		144	5720		12.00	11.76
	802.11n20-HT0	100	5500	MCS0	12.00	11.73
		104	5520		12.00	11.65
		116	5580		12.00	11.67
		120	5600		12.00	11.77
		136	5680		12.00	11.74
		140	5700		12.00	11.72
		144	5720		12.00	11.77
	802.11ac20-VHT0	100	5500	MCS0	12.00	11.76
		104	5520		12.00	11.63
		116	5580		12.00	11.75
		120	5600		12.00	11.70
		136	5680		12.00	11.78
		140	5700		12.00	11.76
		144	5720		12.00	11.78
	802.11ax20-HE0	100	5500	MCS0	12.00	11.76
		104	5520		12.00	11.74
		116	5580		12.00	11.72
		120	5600		12.00	11.61
		136	5680		12.00	11.64
		140	5700		12.00	11.63
		144	5720		12.00	11.65
	802.11n40-HT0	102	5510	MCS0	12.00	11.74
		110	5550		12.00	11.69
		118	5590		12.00	11.69
		134	5670		12.00	11.80
		142	5710		12.00	11.62
	802.11ac40-VHT0	102	5510	MCS0	12.00	11.72
		110	5550		12.00	11.69
		118	5590		12.00	11.66
		134	5670		12.00	11.77
		142	5710		12.00	11.64
	802.11ax40-HE0	102	5510	MCS0	12.00	11.78
		110	5550		12.00	11.65
		118	5590		12.00	11.79
		134	5670		12.00	11.67
		142	5710		12.00	11.79
	802.11ac80-VHT0	106	5530	MCS0	12.00	11.92
		122	5610		12.00	11.63
		138	5690		12.00	11.95
	802.11ax80-HE0	106	5530	MCS0	12.00	11.61
		122	5610		12.00	11.62
		138	5690		12.00	11.68
	802.11ac160-VHT0	114	5570	MCS0	12.00	11.97
	802.11ax160-HE0	114	5570	MCS0	12.00	11.72

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chainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	12.00	11.73
		157	5785		12.00	11.70
		165	5825		12.00	11.71
	802.11n20-HT0	149	5745	MCS0	12.00	11.89
		157	5785		12.00	11.76
		165	5825		12.00	11.77
	802.11ac20-VHT0	149	5745	MCS0	12.00	11.79
		157	5785		12.00	11.74
		165	5825		12.00	11.70
	802.11ax20-HE0	149	5745	MCS0	12.00	11.81
		157	5785		12.00	11.81
		165	5825		12.00	11.74
	802.11n40-HT0	151	5755	MCS0	12.00	11.99
		159	5795		12.00	11.96
	802.11ac40-VHT0	151	5755	MCS0	12.00	11.81
		159	5795		12.00	11.73
	802.11ax40-HE0	151	5755	MCS0	12.00	11.77
		159	5795		12.00	11.74
	802.11ac80-VHT0	155	5775	MCS0	12.00	11.98
	802.11ax80-HE0	155	5775	MCS0	12.00	11.75

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	17.93
		2	2417		18.00	17.87
		6	2437		18.00	17.99
		10	2457		18.00	17.81
		11	2462		18.00	17.91
		12	2467		18.00	17.97
		13	2472		16.50	16.41
	802.11g	1	2412	6Mbps	18.00	17.90
		2	2417		18.00	17.86
		6	2437		18.00	17.93
		10	2457		18.00	17.82
		11	2462		18.00	17.88
		12	2467		15.50	15.41
		13	2472		12.50	12.40
	802.11n20-HT0	1	2412	MCS0	18.00	17.93
		2	2417		18.00	17.89
		6	2437		18.00	17.99
		10	2457		18.00	17.85
		11	2462		18.00	17.99
		12	2467		15.50	15.46
		13	2472		12.50	12.39
	802.11ac20-VHT0	1	2412	MCS0	18.00	17.99
		2	2417		18.00	17.93
		6	2437		18.00	17.87
		10	2457		18.00	17.88
		11	2462		18.00	17.89
	802.11ax20-HE0	1	2412	MCS0	18.00	17.88
	802.11ax20-HE0	2	2417		18.00	17.95
	802.11ax20-HE0	6	2437		18.00	17.92
	802.11ax20-HE0	10	2457		18.00	17.98
	802.11ax20-HE0	11	2462		18.00	17.95
	802.11ax20-HE0_RU_26/8	12	2467		18.00	17.84
	802.11ax20-HE0	13	2472		12.50	12.37
	802.11n40-HT0	3	2422	MCS0	15.75	15.65
		4	2427		16.75	16.74
		6	2437		18.00	17.81
		8	2447		16.00	15.81
		9	2452		16.00	15.96
		10	2457		12.75	12.63
		11	2462		10.25	10.14
	802.11ac40-VHT0	3	2422	MCS0	15.75	15.64
		4	2427		16.75	16.61
		6	2437		18.00	17.99
		8	2447		16.00	15.94
		9	2452		16.00	15.86
	802.11ax40-HE0_RU_242/61	3	2422	MCS0	18.00	17.78
	802.11ax40-HE0_RU_242/61	4	2427		18.00	17.83
	802.11ax40-HE0	6	2437		18.00	17.78
	802.11ax40-HE0_RU_242/61	8	2447		18.00	17.86
	802.11ax40-HE0_RU_242/61	9	2452		16.25	16.01

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	14.00	13.82
		40	5200		14.00	13.89
		44	5220		14.00	13.94
		48	5240		14.00	13.96
	802.11n20-HT0	36	5180	MCS0	14.00	13.99
		40	5200		14.00	13.90
		44	5220		14.00	13.80
		48	5240		14.00	13.97
	802.11ac20-VHT0	36	5180	MCS0	14.00	13.92
		40	5200		14.00	13.89
		44	5220		14.00	13.88
		48	5240		14.00	13.92
	802.11ax20-HE0	36	5180	MCS0	14.00	13.98
		40	5200		14.00	13.93
		44	5220		14.00	13.87
		48	5240		14.00	13.88
	802.11n40-HT0	38	5190	MCS0	14.00	13.93
		46	5230		14.00	13.94
	802.11ac40-VHT0	38	5190	MCS0	14.00	13.93
		46	5230		14.00	13.81
	802.11ax40-HE0	38	5190	MCS0	14.00	13.84
		46	5230		14.00	13.84
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.99
	802.11ax80-HE0	42	5210	MCS0	14.00	13.95
	802.11ac160-VHT0	50	5250	MCS0	14.00	13.96
	802.11ax160-HE0	50	5250	MCS0	14.00	13.90

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	14.00	13.97
		56	5280		14.00	13.88
		60	5300		14.00	13.97
		64	5320		14.00	13.92
	802.11n20-HT0	52	5260	MCS0	14.00	13.95
		56	5280		14.00	13.94
		60	5300		14.00	13.84
		64	5320		14.00	13.98
	802.11ac20-VHT0	52	5260	MCS0	14.00	13.94
		56	5280		14.00	13.92
		60	5300		14.00	13.87
		64	5320		14.00	13.87
	802.11ax20-HE0	52	5260	MCS0	14.00	13.85
		56	5280		14.00	13.84
		60	5300		14.00	13.98
		64	5320		14.00	13.84
	802.11n40-HT0	54	5270	MCS0	14.00	13.98
		62	5310		14.00	13.93
	802.11ac40-VHT0	54	5270	MCS0	14.00	13.98
		62	5310		14.00	13.86
	802.11ax40-HE0	54	5270	MCS0	14.00	13.90
		62	5310		14.00	13.85
	802.11ac80-VHT0	58	5290	MCS0	14.00	13.94
	802.11ax80-HE0	58	5290	MCS0	14.00	13.98

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.00	13.77
		104	5520		14.00	13.78
		116	5580		14.00	13.67
		120	5600		14.00	13.66
		136	5680		14.00	13.63
		140	5700		14.00	13.74
		144	5720		14.00	13.73
	802.11n20-HT0	100	5500	MCS0	14.00	13.61
		104	5520		14.00	13.73
		116	5580		14.00	13.74
		120	5600		14.00	13.71
		136	5680		14.00	13.74
		140	5700		14.00	13.65
		144	5720		14.00	13.64
	802.11ac20-VHT0	100	5500	MCS0	14.00	13.75
		104	5520		14.00	13.73
		116	5580		14.00	13.78
		120	5600		14.00	13.79
		136	5680		14.00	13.68
		140	5700		14.00	13.70
		144	5720		14.00	13.77
	802.11ax20-HE0	100	5500	MCS0	14.00	13.75
		104	5520		14.00	13.79
		116	5580		14.00	13.62
		120	5600		14.00	13.68
		136	5680		14.00	13.64
		140	5700		14.00	13.65
		144	5720		14.00	13.60
	802.11n40-HT0	102	5510	MCS0	14.00	13.73
		110	5550		14.00	13.77
		118	5590		14.00	13.66
		134	5670		14.00	13.60
		142	5710		14.00	13.68
	802.11ac40-VHT0	102	5510	MCS0	14.00	13.76
		110	5550		14.00	13.64
		118	5590		14.00	13.63
		134	5670		14.00	13.71
		142	5710		14.00	13.73
	802.11ax40-HE0	102	5510	MCS0	14.00	13.76
		110	5550		14.00	13.70
		118	5590		14.00	13.62
		134	5670		14.00	13.65
		142	5710		14.00	13.80
	802.11ac80-VHT0	106	5530	MCS0	14.00	13.98
		122	5610		14.00	13.69
		138	5690		14.00	13.96
	802.11ax80-HE0	106	5530	MCS0	14.00	13.61
		122	5610		14.00	13.61
		138	5690		14.00	13.71
	802.11ac160-VHT0	114	5570	MCS0	14.00	13.96
	802.11ax160-HE0	114	5570	MCS0	14.00	13.80

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chainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	14.50	14.44
		157	5785		14.50	14.41
		165	5825		14.50	14.33
	802.11n20-HT0	149	5745	MCS0	14.50	14.48
		157	5785		14.50	14.43
		165	5825		14.50	14.30
	802.11ac20-VHT0	149	5745	MCS0	14.50	14.49
		157	5785		14.50	14.35
		165	5825		14.50	14.33
	802.11ax20-HE0	149	5745	MCS0	14.50	14.43
		157	5785		14.50	14.44
		165	5825		14.50	14.36
	802.11n40-HT0	151	5755	MCS0	14.50	14.45
		159	5795		14.50	14.47
	802.11ac40-VHT0	151	5755	MCS0	14.50	14.46
		159	5795		14.50	14.34
	802.11ax40-HE0	151	5755	MCS0	14.50	14.37
		159	5795		14.50	14.37
	802.11ac80-VHT0	155	5775	MCS0	14.50	14.42
	802.11ax80-HE0	155	5775	MCS0	14.50	14.43

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MIMO

chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.00	14.97
		2	2417		16.00	14.88
		6	2437		16.00	14.97
		10	2457		16.00	14.89
		11	2462		16.00	14.99
		12	2467		16.00	14.81
		13	2472		16.00	14.97
	802.11g	1	2412	6Mbps	16.00	14.88
		2	2417		16.00	14.92
		6	2437		16.00	14.80
		10	2457		16.00	14.94
		11	2462		16.00	14.97
		12	2467		15.50	14.34
		13	2472		12.50	11.44
	802.11n20-HT0	1	2412	MCS0	16.00	14.81
		2	2417		16.00	14.92
		6	2437		16.00	14.96
		10	2457		16.00	14.87
		11	2462		16.00	14.92
		12	2467		15.50	14.46
		13	2472		12.50	11.38
	802.11ac20-VHT0	1	2412	MCS0	16.00	14.91
		2	2417		16.00	14.98
		6	2437		16.00	14.88
		10	2457		16.00	14.98
		11	2462		16.00	14.94
	802.11ax20-HE0	1	2412	MCS0	16.00	14.92
		2	2417		16.00	14.91
		6	2437		16.00	14.89
		10	2457		16.00	14.80
		11	2462		16.00	14.98
		12	2467		16.00	14.86
		13	2472		12.50	11.37
	802.11n40-HT0	3	2422	MCS0	16.00	14.85
		4	2427		16.00	14.82
		6	2437		16.00	14.93
		8	2447		16.00	14.88
		9	2452		16.00	14.88
		10	2457		13.00	11.87
		11	2462		11.50	10.42
	802.11ac40-VHT0	3	2422	MCS0	16.00	14.99
		4	2427		16.00	14.82
		6	2437		16.00	14.87
		8	2447		16.00	14.86
		9	2452		16.00	14.92
	802.11ax40-HE0	3	2422	MCS0	16.00	14.91
		4	2427		16.00	14.94
		6	2437		16.00	14.82
		8	2447		16.00	14.87
		9	2452		16.00	14.95

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	12.50	11.34
		40	5200		12.50	11.44
		44	5220		12.50	11.40
		48	5240		12.50	11.41
	802.11n20-HT0	36	5180	MCS0	12.50	11.42
		40	5200		12.50	11.34
		44	5220		12.50	11.40
		48	5240		12.50	11.32
	802.11ac20-VHT0	36	5180	MCS0	12.50	11.46
		40	5200		12.50	11.43
		44	5220		12.50	11.44
		48	5240		12.50	11.40
	802.11ax20-HE0	36	5180	MCS0	12.50	11.49
		40	5200		12.50	11.40
		44	5220		12.50	11.36
		48	5240		12.50	11.42
	802.11n40-HT0	38	5190	MCS0	12.50	11.35
		46	5230		12.50	11.49
	802.11ac40-VHT0	38	5190	MCS0	12.50	11.33
		46	5230		12.50	11.36
	802.11ax40-HE0	38	5190	MCS0	12.50	11.40
		46	5230		12.50	11.49
	802.11ac80-VHT0	42	5210	MCS0	12.50	11.31
	802.11ax80-HE0	42	5210	MCS0	12.50	11.32
	802.11ac160-VHT0	50	5250	MCS0	12.50	11.46
	802.11ax160-HE0	50	5250	MCS0	12.50	11.37

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	12.50	11.42
		56	5280		12.50	11.31
		60	5300		12.50	11.35
		64	5320		12.50	11.41
	802.11n20-HT0	52	5260	MCS0	12.50	11.41
		56	5280		12.50	11.46
		60	5300		12.50	11.41
		64	5320		12.50	11.30
	802.11ac20-VHT0	52	5260	MCS0	12.50	11.35
		56	5280		12.50	11.39
		60	5300		12.50	11.38
		64	5320		12.50	11.35
	802.11ax20-HE0	52	5260	MCS0	12.50	11.34
		56	5280		12.50	11.47
		60	5300		12.50	11.39
		64	5320		12.50	11.32
	802.11n40-HT0	54	5270	MCS0	12.50	11.38
		62	5310		12.50	11.36
	802.11ac40-VHT0	54	5270	MCS0	12.50	11.32
		62	5310		12.50	11.46
	802.11ax40-HE0	54	5270	MCS0	12.50	11.48
		62	5310		12.50	11.44
	802.11ac80-VHT0	58	5290	MCS0	12.50	11.32
	802.11ax80-HE0	58	5290	MCS0	12.50	11.43

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	12.00	10.94
		104	5520		12.00	10.83
		116	5580		12.00	10.91
		120	5600		12.00	10.83
		136	5680		12.00	10.95
		140	5700		12.00	11.00
		144	5720		12.00	10.97
	802.11n20-HT0	100	5500	MCS0	12.00	10.81
		104	5520		12.00	10.81
		116	5580		12.00	10.90
		120	5600		12.00	10.82
		136	5680		12.00	10.84
		140	5700		12.00	10.98
		144	5720		12.00	10.94
	802.11ac20-VHT0	100	5500	MCS0	12.00	10.90
		104	5520		12.00	10.89
		116	5580		12.00	10.82
		120	5600		12.00	10.87
		136	5680		12.00	10.81
		140	5700		12.00	10.85
		144	5720		12.00	10.94
	802.11ax20-HE0	100	5500	MCS0	12.00	10.91
		104	5520		12.00	10.87
		116	5580		12.00	10.97
		120	5600		12.00	10.96
		136	5680		12.00	10.82
		140	5700		12.00	10.97
		144	5720		12.00	10.81
	802.11n40-HT0	102	5510	MCS0	12.00	10.88
		110	5550		12.00	10.90
		118	5590		12.00	10.85
		134	5670		12.00	10.92
		142	5710		12.00	10.95
	802.11ac40-VHT0	102	5510	MCS0	12.00	10.93
		110	5550		12.00	10.90
		118	5590		12.00	10.85
		134	5670		12.00	10.91
		142	5710		12.00	10.99
	802.11ax40-HE0	102	5510	MCS0	12.00	10.87
		110	5550		12.00	10.92
		118	5590		12.00	10.97
		134	5670		12.00	10.95
		142	5710		12.00	10.98
	802.11ac80-VHT0	106	5530	MCS0	12.00	10.91
		122	5610		12.00	10.82
		138	5690		12.00	10.94
	802.11ax80-HE0	106	5530	MCS0	12.00	10.83
		122	5610		12.00	10.90
		138	5690		12.00	10.88
	802.11ac160-VHT0	114	5570	MCS0	12.00	10.91
	802.11ax160-HE0	114	5570	MCS0	12.00	10.87

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Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	12.00	10.92
		157	5785		12.00	10.85
		165	5825		12.00	10.82
	802.11n20-HT0	149	5745	MCS0	12.00	10.81
		157	5785		12.00	10.90
		165	5825		12.00	10.86
	802.11ac20-VHT0	149	5745	MCS0	12.00	10.82
		157	5785		12.00	10.96
		165	5825		12.00	10.86
	802.11ax20-HE0	149	5745	MCS0	12.00	10.91
		157	5785		12.00	10.91
		165	5825		12.00	10.81
	802.11n40-HT0	151	5755	MCS0	12.00	10.80
		159	5795		12.00	10.88
	802.11ac40-VHT0	151	5755	MCS0	12.00	10.89
		159	5795		12.00	10.94
	802.11ax40-HE0	151	5755	MCS0	12.00	10.88
		159	5795		12.00	11.00
	802.11ac80-VHT0	155	5775	MCS0	12.00	10.94
	802.11ax80-HE0	155	5775	MCS0	12.00	10.96

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	16.95
		2	2417		18.00	16.90
		6	2437		18.00	16.96
		10	2457		18.00	16.80
		11	2462		18.00	16.96
		12	2467		18.00	16.85
		13	2472		16.50	15.34
	802.11g	1	2412	6Mbps	18.00	16.99
		2	2417		18.00	16.81
		6	2437		18.00	16.84
		10	2457		18.00	16.81
		11	2462		18.00	16.98
		12	2467		15.50	14.32
		13	2472		12.50	11.42
	802.11n20-HT0	1	2412	MCS0	18.00	16.82
		2	2417		18.00	16.90
		6	2437		18.00	16.90
		10	2457		18.00	16.96
		11	2462		18.00	16.96
		12	2467		15.50	14.37
		13	2472		12.50	11.36
	802.11ac20-VHT0	1	2412	MCS0	18.00	17.00
		2	2417		18.00	16.95
		6	2437		18.00	16.92
		10	2457		18.00	16.90
		11	2462		18.00	16.89
	802.11ax20-HE0	1	2412	MCS0	18.00	16.85
		2	2417		18.00	16.89
		6	2437		18.00	16.80
		10	2457		18.00	16.96
		11	2462		18.00	16.82
		12	2467		18.00	16.98
		13	2472		12.50	11.33
	802.11n40-HT0	3	2422	MCS0	15.75	14.73
		4	2427		16.75	15.67
		6	2437		18.00	16.85
		8	2447		16.00	14.93
		9	2452		16.00	14.95
		10	2457		12.75	11.61
		11	2462		10.25	9.18
	802.11ac40-VHT0	3	2422	MCS0	15.75	14.67
		4	2427		16.75	15.61
		6	2437		18.00	16.88
		8	2447		16.00	14.83
		9	2452		16.00	14.97
	802.11ax40-HE0_RU_242/61	3	2422	MCS0	18.00	16.98
	802.11ax40-HE0_RU_242/61	4	2427		18.00	16.85
	802.11ax40-HE0	6	2437		18.00	16.85
	802.11ax40-HE0_RU_242/61	8	2447		18.00	16.90
	802.11ax40-HE0_RU_242/61	9	2452		16.25	15.18

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	14.00	12.98
		40	5200		14.00	12.95
		44	5220		14.00	12.88
		48	5240		14.00	12.87
	802.11n20-HT0	36	5180	MCS0	14.00	12.93
		40	5200		14.00	12.87
		44	5220		14.00	12.87
		48	5240		14.00	12.89
	802.11ac20-VHT0	36	5180	MCS0	14.00	12.84
		40	5200		14.00	12.82
		44	5220		14.00	12.82
		48	5240		14.00	12.95
	802.11ax20-HE0	36	5180	MCS0	14.00	12.82
		40	5200		14.00	12.95
		44	5220		14.00	12.91
		48	5240		14.00	12.96
	802.11n40-HT0	38	5190	MCS0	14.00	12.94
		46	5230		14.00	12.80
	802.11ac40-VHT0	38	5190	MCS0	14.00	12.88
		46	5230		14.00	12.96
	802.11ax40-HE0	38	5190	MCS0	14.00	12.88
		46	5230		14.00	12.92
	802.11ac80-VHT0	42	5210	MCS0	14.00	12.81
	802.11ax80-HE0	42	5210	MCS0	14.00	12.98
	802.11ac160-VHT0	50	5250	MCS0	14.00	12.96
	802.11ax160-HE0	50	5250	MCS0	14.00	12.88

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	14.00	12.89
		56	5280		14.00	12.87
		60	5300		14.00	12.82
		64	5320		14.00	12.86
	802.11n20-HT0	52	5260	MCS0	14.00	12.93
		56	5280		14.00	12.82
		60	5300		14.00	12.83
		64	5320		14.00	12.96
	802.11ac20-VHT0	52	5260	MCS0	14.00	12.81
		56	5280		14.00	12.91
		60	5300		14.00	12.81
		64	5320		14.00	12.92
	802.11ax20-HE0	52	5260	MCS0	14.00	12.85
		56	5280		14.00	12.97
		60	5300		14.00	12.88
		64	5320		14.00	12.94
	802.11n40-HT0	54	5270	MCS0	14.00	12.94
		62	5310		14.00	12.96
	802.11ac40-VHT0	54	5270	MCS0	14.00	12.91
		62	5310		14.00	12.83
	802.11ax40-HE0	54	5270	MCS0	14.00	12.93
		62	5310		14.00	12.84
	802.11ac80-VHT0	58	5290	MCS0	14.00	12.82
	802.11ax80-HE0	58	5290	MCS0	14.00	12.96

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.00	12.97
		104	5520		14.00	12.90
		116	5580		14.00	12.88
		120	5600		14.00	12.95
		136	5680		14.00	12.87
		140	5700		14.00	12.92
		144	5720		14.00	12.93
	802.11n20-HT0	100	5500	MCS0	14.00	12.93
		104	5520		14.00	12.95
		116	5580		14.00	12.92
		120	5600		14.00	12.98
		136	5680		14.00	12.98
		140	5700		14.00	12.88
		144	5720		14.00	12.89
	802.11ac20-VHT0	100	5500	MCS0	14.00	12.88
		104	5520		14.00	12.91
		116	5580		14.00	12.96
		120	5600		14.00	12.87
		136	5680		14.00	12.81
		140	5700		14.00	12.92
		144	5720		14.00	12.85
	802.11ax20-HE0	100	5500	MCS0	14.00	12.94
		104	5520		14.00	12.88
		116	5580		14.00	12.89
		120	5600		14.00	12.95
		136	5680		14.00	12.91
		140	5700		14.00	12.99
		144	5720		14.00	12.95
	802.11n40-HT0	102	5510	MCS0	14.00	12.89
		110	5550		14.00	12.96
		118	5590		14.00	12.81
		134	5670		14.00	12.95
		142	5710		14.00	12.91
	802.11ac40-VHT0	102	5510	MCS0	14.00	12.90
		110	5550		14.00	12.96
		118	5590		14.00	12.97
		134	5670		14.00	12.91
		142	5710		14.00	12.97
	802.11ax40-HE0	102	5510	MCS0	14.00	12.87
		110	5550		14.00	12.83
		118	5590		14.00	12.81
		134	5670		14.00	12.92
		142	5710		14.00	12.96
	802.11ac80-VHT0	106	5530	MCS0	14.00	12.80
		122	5610		14.00	12.81
		138	5690		14.00	12.99
	802.11ax80-HE0	106	5530	MCS0	14.00	12.93
		122	5610		14.00	12.89
		138	5690		14.00	12.87
	802.11ac160-VHT0	114	5570	MCS0	14.00	12.86
	802.11ax160-HE0	114	5570	MCS0	14.00	12.83

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chainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	14.50	13.47
		157	5785		14.50	13.33
		165	5825		14.50	13.33
	802.11n20-HT0	149	5745	MCS0	14.50	13.46
		157	5785		14.50	13.39
		165	5825		14.50	13.46
	802.11ac20-VHT0	149	5745	MCS0	14.50	13.33
		157	5785		14.50	13.41
		165	5825		14.50	13.44
	802.11ax20-HE0	149	5745	MCS0	14.50	13.34
		157	5785		14.50	13.40
		165	5825		14.50	13.46
	802.11n40-HT0	151	5755	MCS0	14.50	13.49
		159	5795		14.50	13.40
	802.11ac40-VHT0	151	5755	MCS0	14.50	13.44
		159	5795		14.50	13.35
	802.11ax40-HE0	151	5755	MCS0	14.50	13.45
		159	5795		14.50	13.36
	802.11ac80-VHT0	155	5775	MCS0	14.50	13.44
	802.11ax80-HE0	155	5775	MCS0	14.50	13.42

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Hong Bo Mode 1

ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	21.00	20.84
		2	2417		21.00	20.75
		6	2437		21.00	20.81
		10	2457		21.00	20.81
		11	2462		21.00	20.81
		12	2467		20.00	19.81
		13	2472		17.50	17.36
	802.11g	1	2412	6Mbps	18.00	17.91
		2	2417		20.00	19.95
		6	2437		21.00	20.92
		10	2457		19.75	19.61
		11	2462		17.75	17.64
		12	2467		15.50	15.48
		13	2472		12.50	12.46
	802.11n20-HT0	1	2412	MCS0	18.00	17.81
		2	2417		20.00	19.81
		6	2437		21.00	20.90
		10	2457		19.75	19.66
		11	2462		17.75	17.63
		12	2467		15.50	15.48
		13	2472		12.50	12.49
	802.11ac20-VHT0	1	2412	MCS0	18.00	17.84
		2	2417		20.00	19.95
		6	2437		21.00	20.98
		10	2457		19.75	19.70
	802.11ax20-HE0_RU_52/37	1	2412	MCS0	17.75	17.65
		2	2417		20.50	20.47
		6	2437		20.75	20.65
		10	2457		21.00	20.93
		11	2462		20.25	20.23
		12	2467		19.50	19.35
		13	2472		18.25	18.22
	802.11ax20-HE0	3	2422	MCS0	12.50	12.44
		4	2427		16.50	16.44
		6	2437		17.00	16.85
		8	2447		17.25	17.07
		9	2452		17.50	17.46
		10	2457		17.50	17.48
		11	2462		13.00	12.81
	802.11n40-HT0	3	2422	MCS0	11.50	11.44
		4	2427		16.50	16.48
		6	2437		17.00	16.89
		8	2447		17.25	17.14
		9	2452		17.50	17.31
	802.11ac40-VHT0	3	2422	MCS0	17.50	17.40
		4	2427		17.00	16.97
		6	2437		19.75	19.61
		8	2447		19.00	18.87
		9	2452		18.50	18.35
	802.11ax40-HE0_RU_242/61	3	2422	MCS0	17.00	16.97
		4	2427		19.75	19.61
		6	2437		19.00	18.87
		8	2447		18.50	18.35
	802.11ax40-HE0	9	2452	MCS0	17.50	17.39

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	20.00	19.92
		40	5200		21.00	20.87
		44	5220		21.00	20.99
		48	5240		21.00	20.81
	802.11n20-HT0	36	5180	MCS0	20.00	19.87
		40	5200		21.00	20.85
		44	5220		21.00	20.84
		48	5240		21.00	21.00
	802.11ac20-VHT0	36	5180	MCS0	20.00	19.92
		40	5200		21.00	20.99
		44	5220		21.00	20.81
		48	5240		21.00	20.89
	802.11ax20-HE0	36	5180	MCS0	20.00	19.92
		40	5200		21.00	20.86
		44	5220		21.00	20.86
		48	5240		21.00	20.95
	802.11n40-HT0	38	5190	MCS0	18.50	18.41
		46	5230		21.00	20.94
	802.11ac40-VHT0	38	5190	MCS0	18.50	18.30
		46	5230		21.00	20.89
	802.11ax40-HE0_RU_242/61	38	5190	MCS0	20.25	20.12
	802.11ax40-HE0	46	5230		21.00	20.87
	802.11ac80-VHT0	42	5210	MCS0	17.50	17.41
	802.11ax80-HE0_RU_484/65	42	5210	MCS0	18.25	18.06
	802.11ac160-VHT0	50	5250	MCS0	14.00	13.84
	802.11ax160-HE0_RU_996/67	50	5250	MCS0	16.75	16.55

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	21.00	20.88
		56	5280		21.00	20.95
		60	5300		21.00	20.87
		64	5320		20.50	20.36
	802.11n20-HT0	52	5260	MCS0	21.00	20.88
		56	5280		21.00	20.98
		60	5300		21.00	20.92
		64	5320		20.50	20.47
	802.11ac20-VHT0	52	5260	MCS0	21.00	20.99
		56	5280		21.00	20.99
		60	5300		21.00	20.94
		64	5320		20.50	20.48
	802.11ax20-HE0	52	5260	MCS0	21.00	20.89
		56	5280		21.00	20.88
		60	5300		21.00	20.97
		64	5320		20.50	20.42
	802.11n40-HT0	54	5270	MCS0	21.00	20.88
		62	5310		17.00	16.94
	802.11ac40-VHT0	54	5270	MCS0	21.00	19.00
		62	5310		17.00	16.88
	802.11ax40-HE0	54	5270	MCS0	21.00	19.00
	802.11ax40-HE0_RU_242/62	62	5310		20.00	18.83
	802.11ac80-VHT0	58	5290	MCS0	17.50	17.47
	802.11ax80-HE0	58	5290	MCS0	17.75	17.60

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	20.50	20.34
		104	5520		20.75	20.72
		116	5580		21.00	20.96
		120	5600		21.00	20.81
		136	5680		21.00	20.94
		140	5700		20.50	20.30
		144	5720		21.00	20.44
	802.11n20-HT0	100	5500	MCS0	20.50	20.32
		104	5520		20.75	20.70
		116	5580		21.00	20.84
		120	5600		21.00	20.84
		136	5680		21.00	20.84
		140	5700		20.50	20.39
		144	5720		21.00	20.47
	802.11ac20-VHT0	100	5500	MCS0	20.50	20.37
		104	5520		20.75	20.58
		116	5580		21.00	20.92
		120	5600		21.00	20.96
		136	5680		21.00	20.98
		140	5700		20.50	20.32
		144	5720		21.00	20.46
	802.11ax20-HE0	100	5500	MCS0	20.50	20.45
		104	5520		20.75	20.62
		116	5580		21.00	20.98
		120	5600		21.00	20.96
		136	5680		21.00	20.81
		140	5700		20.50	20.44
		144	5720		21.00	20.32
	802.11n40-HT0	102	5510	MCS0	20.25	20.07
		110	5550		21.00	21.00
		118	5590		21.00	20.95
		134	5670		21.00	20.90
		142	5710		21.00	20.59
	802.11ac40-VHT0	102	5510	MCS0	20.25	20.16
		110	5550		21.00	20.80
		118	5590		21.00	20.91
		134	5670		21.00	20.90
		142	5710		21.00	20.60
	802.11ax40-HE0_RU_242/61	102	5510	MCS0	20.50	20.43
	802.11ax40-HE0	110	5550		21.00	20.99
	802.11ax40-HE0	118	5590		21.00	20.94
	802.11ax40-HE0	134	5670		21.00	20.81
	802.11ax40-HE0	142	5710		21.00	20.82
	802.11ac80-VHT0	106	5530	MCS0	18.50	17.64
		122	5610		21.00	20.90
		138	5690		21.00	20.97
	802.11ax80-HE0_RU_484/65	106	5530	MCS0	19.50	17.67
	802.11ax80-HE0	122	5610		21.00	20.93
	802.11ax80-HE0	138	5690		21.00	20.81
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.98
	802.11ax160-HE0_RU_996/s67	114	5570	MCS0	21.00	20.99

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ChainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	20.99
		157	5785		21.00	21.00
		165	5825		21.00	20.87
	802.11n20-HT0	149	5745	MCS0	21.00	20.93
		157	5785		21.00	20.83
		165	5825		21.00	20.81
	802.11ac20-VHT0	149	5745	MCS0	21.00	20.97
		157	5785		21.00	20.91
		165	5825		21.00	20.84
	802.11ax20-HE0	149	5745	MCS0	21.00	20.90
		157	5785		21.00	20.84
		165	5825		21.00	20.86
	802.11n40-HT0	151	5755	MCS0	21.00	20.86
		159	5795		21.00	20.88
	802.11ac40-VHT0	151	5755	MCS0	21.00	20.83
		159	5795		21.00	20.90
	802.11ax40-HE0	151	5755	MCS0	21.00	20.99
		159	5795		21.00	20.85
	802.11ac80-VHT0	155	5775	MCS0	21.00	20.80
	802.11ax80-HE0	155	5775	MCS0	21.00	21.00

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	21.00	20.91
		2	2417		21.00	20.81
		6	2437		21.00	20.87
		10	2457		21.00	20.90
		11	2462		21.00	20.96
		12	2467		19.75	19.63
		13	2472		16.50	16.36
	802.11g	1	2412	6Mbps	18.50	18.34
		2	2417		20.25	20.14
		6	2437		21.00	20.82
		10	2457		20.00	19.91
		11	2462		18.00	17.92
		12	2467		15.50	15.40
		13	2472		12.50	12.47
	802.11n20-HT0	1	2412	MCS0	18.50	18.46
		2	2417		20.25	20.17
		6	2437		21.00	21.00
		10	2457		20.00	19.80
		11	2462		18.00	17.89
		12	2467		15.50	15.49
		13	2472		12.50	12.43
	802.11ac20-VHT0	1	2412	MCS0	18.50	18.48
		2	2417		20.25	20.14
		6	2437		21.00	20.93
		10	2457		20.00	20.00
		11	2462		18.00	17.95
	802.11ax20-HE0_RU_106/53	1	2412	MCS0	20.50	20.35
		2	2417		20.75	20.74
		6	2437		21.00	20.98
		10	2457		20.50	20.41
		11	2462		19.50	19.49
		12	2467		18.00	17.91
		13	2472		12.50	12.45
	802.11ax20-HE0_RU_52/37	1	2412	MCS0	20.50	20.35
		2	2417		20.75	20.74
		6	2437		21.00	20.98
		10	2457		20.50	20.41
		11	2462		19.50	19.49
		12	2467		18.00	17.91
		13	2472		12.50	12.45
	802.11ax20-HE0_RU_52/40	1	2412	MCS0	20.50	20.35
		2	2417		20.75	20.74
		6	2437		21.00	20.98
		10	2457		20.50	20.41
		11	2462		19.50	19.49
		12	2467		18.00	17.91
		13	2472		12.50	12.45
	802.11ax20-HE0_RU_106/54	1	2412	MCS0	20.50	20.35
		2	2417		20.75	20.74
		6	2437		21.00	20.98
		10	2457		20.50	20.41
		11	2462		19.50	19.49
		12	2467		18.00	17.91
		13	2472		12.50	12.45
	802.11ax20-HE0_RU_26/8	1	2412	MCS0	20.50	20.35
		2	2417		20.75	20.74
		6	2437		21.00	20.98
		10	2457		20.50	20.41
		11	2462		19.50	19.49
		12	2467		18.00	17.91
		13	2472		12.50	12.45
	802.11ax20-HE0	1	2412	MCS0	20.50	20.35
		2	2417		20.75	20.74
		6	2437		21.00	20.98
		10	2457		20.50	20.41
		11	2462		19.50	19.49
		12	2467		18.00	17.91
		13	2472		12.50	12.45
	802.11n40-HT0	3	2422	MCS0	15.75	15.60
		4	2427		16.75	16.68
		6	2437		18.00	17.87
		8	2447		16.00	15.85
		9	2452		16.00	15.97
		10	2457		12.75	12.64
		11	2462		10.25	10.22
	802.11n40-HT0	3	2422	MCS0	15.75	15.60
		4	2427		16.75	16.65
		6	2437		18.00	17.83
		8	2447		16.00	15.88
		9	2452		16.00	15.93
		10	2457		12.75	12.64
		11	2462		10.25	10.22
	802.11ac40-VHT0	3	2422	MCS0	18.00	17.87
		4	2427		19.50	19.39
		6	2437		19.25	19.19
		8	2447		18.75	18.69
		9	2452		16.25	16.14
		10	2457		12.75	12.64
		11	2462		10.25	10.22
	802.11ac40-VHT0	3	2422	MCS0	18.00	17.87
		4	2427		19.50	19.39
		6	2437		19.25	19.19
		8	2447		18.75	18.69
		9	2452		16.25	16.14
		10	2457		12.75	12.64
		11	2462		10.25	10.22
	802.11ax40-HE0_RU_242/61	3	2422	MCS0	18.00	17.87
		4	2427		19.50	19.39
		6	2437		19.25	19.19
		8	2447		18.75	18.69
		9	2452		16.25	16.14
		10	2457		12.75	12.64
		11	2462		10.25	10.22

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	20.00	19.95
		40	5200		20.75	20.59
		44	5220		21.00	20.90
		48	5240		21.00	20.81
	802.11n20-HT0	36	5180	MCS0	20.00	19.81
		40	5200		20.75	20.75
		44	5220		21.00	20.96
		48	5240		21.00	20.89
	802.11ac20-VHT0	36	5180	MCS0	20.00	19.86
		40	5200		20.75	20.58
		44	5220		21.00	20.81
		48	5240		21.00	20.91
	802.11ax20-HE0	36	5180	MCS0	20.00	19.82
		40	5200		20.75	20.61
		44	5220		21.00	20.96
		48	5240		21.00	20.90
	802.11n40-HT0	38	5190	MCS0	18.50	18.35
		46	5230		21.00	20.83
	802.11ac40-VHT0	38	5190	MCS0	18.50	18.49
		46	5230		21.00	20.87
	802.11ax40-HE0_RU_242/61	38	5190	MCS0	20.25	20.09
	802.11ax40-HE0	46	5230		21.00	20.87
	802.11ac80-VHT0	42	5210	MCS0	17.75	17.69
	802.11ax80-HE0_RU_484/65	42	5210	MCS0	18.00	17.87
	802.11ac160-VHT0	50	5250	MCS0	14.00	13.81
	802.11ax160-HE0_RU_996/67	50	5250	MCS0	17.00	16.81

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	21.00	20.84
		56	5280		21.00	21.00
		60	5300		21.00	20.93
		64	5320		20.25	20.22
	802.11n20-HT0	52	5260	MCS0	21.00	20.94
		56	5280		21.00	20.80
		60	5300		21.00	20.96
		64	5320		20.25	20.14
	802.11ac20-VHT0	52	5260	MCS0	21.00	20.92
		56	5280		21.00	20.98
		60	5300		21.00	20.80
		64	5320		20.25	20.06
	802.11ax20-HE0	52	5260	MCS0	21.00	20.90
		56	5280		21.00	20.94
		60	5300		21.00	20.90
		64	5320		20.50	20.49
	802.11n40-HT0	54	5270	MCS0	21.00	20.91
		62	5310		17.25	17.14
	802.11ac40-VHT0	54	5270	MCS0	21.00	19.00
		62	5310		17.25	17.21
	802.11ax40-HE0	54	5270	MCS0	21.00	19.00
	802.11ax40-HE0 RU_242/62	62	5310		20.25	18.92
	802.11ac80-VHT0	58	5290	MCS0	17.50	17.44
	802.11ax80-HE0	58	5290	MCS0	17.50	17.46

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	20.25	20.14
		104	5520		21.00	20.82
		116	5580		20.25	20.23
		120	5600		21.00	20.89
		136	5680		21.00	20.93
		140	5700		20.25	20.19
		144	5720		21.00	20.49
	802.11n20-HT0	100	5500	MCS0	20.25	20.23
		104	5520		21.00	20.85
		116	5580		21.00	20.96
		120	5600		21.00	20.96
		136	5680		21.00	20.84
		140	5700		20.50	20.41
		144	5720		21.00	20.41
	802.11ac20-VHT0	100	5500	MCS0	20.50	20.48
		104	5520		20.75	20.70
		116	5580		21.00	20.81
		120	5600		21.00	20.88
		136	5680		21.00	20.83
		140	5700		20.50	20.35
		144	5720		21.00	20.49
	802.11ax20-HE0	100	5500	MCS0	20.25	20.07
		104	5520		21.00	20.91
		116	5580		21.00	20.93
		120	5600		21.00	20.88
		136	5680		21.00	20.83
		140	5700		20.50	20.36
		144	5720		21.00	20.37
	802.11n40-HT0	102	5510	MCS0	19.75	19.73
		110	5550		21.00	20.82
		118	5590		21.00	20.94
		134	5670		21.00	20.93
		142	5710		21.00	20.56
	802.11ac40-VHT0	102	5510	MCS0	19.75	19.65
		110	5550		21.00	20.83
		118	5590		21.00	20.95
		134	5670		21.00	20.97
		142	5710		21.00	20.50
	802.11ax40-HE0_RU_242/61	102	5510	MCS0	20.50	20.36
	802.11ax40-HE0	110	5550		21.00	20.94
	802.11ax40-HE0	118	5590		21.00	20.94
	802.11ax40-HE0	134	5670		21.00	20.82
	802.11ax40-HE0	142	5710		21.00	20.94
	802.11ac80-VHT0	106	5530	MCS0	18.50	17.67
		122	5610		21.00	20.91
		138	5690		21.00	20.86
	802.11ax80-HE0_RU_484/65	106	5530	MCS0	19.00	17.68
	802.11ax80-HE0	122	5610		21.00	20.82
	802.11ax80-HE0	138	5690		21.00	20.91
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.85
	802.11ax160-HE0_RU_996/s67	114	5570	MCS0	21.00	20.89

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ChainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	20.95
		157	5785		21.00	20.83
		165	5825		21.00	20.89
	802.11n20-HT0	149	5745	MCS0	21.00	20.86
		157	5785		21.00	20.90
		165	5825		21.00	20.89
	802.11ac20-VHT0	149	5745	MCS0	21.00	20.90
		157	5785		21.00	20.87
		165	5825		21.00	20.92
	802.11ax20-HE0	149	5745	MCS0	21.00	20.84
		157	5785		21.00	21.00
		165	5825		21.00	20.93
	802.11n40-HT0	151	5755	MCS0	21.00	20.92
		159	5795		21.00	20.96
	802.11ac40-VHT0	151	5755	MCS0	21.00	20.82
		159	5795		21.00	20.96
	802.11ax40-HE0	151	5755	MCS0	21.00	20.98
		159	5795		21.00	20.81
	802.11ac80-VHT0	155	5775	MCS0	21.00	20.98
	802.11ax80-HE0	155	5775	MCS0	21.00	20.88

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MIMO

chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11n20-HT0	1	2412	MCS0	16.50	15.28
		2	2417		18.00	16.87
		6	2437		21.00	19.71
		10	2457		19.50	18.21
		11	2462		16.00	14.89
		12	2467		12.00	10.90
		13	2472		9.00	7.70
	802.11ac20-VHT0	1	2412	MCS0	16.50	15.28
		2	2417		18.00	16.83
		6	2437		21.00	19.79
		10	2457		19.50	18.36
		11	2462		16.00	14.78
	802.11ax20-HE0	1	2412	MCS0	19.50	18.25
		2	2417		20.25	19.09
		6	2437		21.00	19.83
		10	2457		19.75	18.49
		11	2462		18.75	17.62
		12	2467		16.00	14.77
		13	2472		9.00	7.79
	802.11n40-HT0	3	2422	MCS0	15.00	13.85
		4	2427		15.75	14.46
		6	2437		15.75	14.62
		8	2447		15.00	13.80
		9	2452		14.75	13.49
		10	2457		12.00	10.88
		11	2462		9.00	7.73
	802.11ac40-VHT0	3	2422	MCS0	15.00	13.89
		4	2427		15.75	14.55
		6	2437		15.75	14.49
		8	2447		15.00	13.85
		9	2452		14.75	13.58
	802.11ax40-HE0	3	2422	MCS0	16.25	15.14
		4	2427		17.50	16.35
		6	2437		19.25	17.95
		8	2447		18.25	17.15
		9	2452		14.75	13.49

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11n20-HT0	36	5180	MCS0	18.00	16.88
		40	5200		19.00	17.85
		44	5220		19.00	17.72
		48	5240		19.00	17.83
	802.11ac20-VHT0	36	5180	MCS0	18.00	16.76
		40	5200		19.00	17.83
		44	5220		19.00	17.77
		48	5240		19.00	17.78
	802.11ax20-HE0	36	5180	MCS0	18.00	16.87
		40	5200		19.00	17.78
		44	5220		19.00	17.82
		48	5240		19.00	17.72
	802.11n40-HT0	38	5190	MCS0	16.00	14.73
		46	5230		21.00	19.71
	802.11ac40-VHT0	38	5190	MCS0	16.00	14.82
		46	5230		21.00	19.70
	802.11ax40-HE0	38	5190	MCS0	18.00	16.84
		46	5230		21.00	19.78
	802.11ac80-VHT0	42	5210	MCS0	15.00	13.72
	802.11ax80-HE0	42	5210	MCS0	16.00	14.75
	802.11ac160-VHT0	50	5250	MCS0	12.00	10.89
	802.11ax160-HE0	50	5250	MCS0	15.25	13.97

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11n20-HT0	52	5260	MCS0	19.00	17.81
		56	5280		19.00	17.86
		60	5300		19.00	17.71
		64	5320		18.50	17.34
	802.11ac20-VHT0	52	5260	MCS0	19.00	17.75
		56	5280		19.00	17.84
		60	5300		19.00	17.84
		64	5320		18.50	17.23
	802.11ax20-HE0	52	5260	MCS0	19.00	17.72
		56	5280		19.00	17.70
		60	5300		19.00	17.74
		64	5320		18.50	17.28
	802.11n40-HT0	54	5270	MCS0	21.00	19.82
		62	5310		16.25	15.08
	802.11ac40-VHT0	54	5270	MCS0	21.00	19.84
		62	5310		16.25	15.10
	802.11ax40-HE0	54	5270	MCS0	21.00	19.76
	802.11ax40-HE0	62	5310		17.25	16.05
	802.11ac80-VHT0	58	5290	MCS0	16.25	15.05
	802.11ax80-HE0	58	5290	MCS0	20.50	19.23

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11n20-HT0	100	5500	MCS0	19.00	17.75
		104	5520		19.00	17.76
		116	5580		19.00	17.82
		120	5600		19.00	17.79
		136	5680		19.00	17.88
		140	5700		18.50	17.35
		144	5720		21.00	19.79
	802.11ac20-VHT0	100	5500	MCS0	19.00	17.81
		104	5520		19.00	17.83
		116	5580		19.00	17.86
		120	5600		19.00	17.89
		136	5680		19.00	17.74
		140	5700		18.50	17.22
		144	5720		21.00	19.74
	802.11ax20-HE0	100	5500	MCS0	19.00	17.73
		104	5520		19.00	17.81
		116	5580		19.00	17.75
		120	5600		19.00	17.71
		136	5680		19.00	17.71
		140	5700		18.50	17.39
		144	5720		21.00	19.73
	802.11n40-HT0	102	5510	MCS0	18.00	16.80
		110	5550		21.00	19.88
		118	5590		21.00	19.87
		134	5670		19.75	18.60
		142	5710		18.50	17.28
	802.11ac40-VHT0	102	5510	MCS0	18.00	16.80
		110	5550		21.00	19.85
		118	5590		21.00	19.89
		134	5670		19.75	18.52
		142	5710		18.50	17.27
	802.11ax40-HE0	102	5510	MCS0	19.00	17.71
		110	5550		21.00	19.82
		118	5590		21.00	19.70
		134	5670		19.75	18.59
		142	5710		18.50	17.33
	802.11ac80-VHT0	106	5530	MCS0	16.00	14.87
		122	5610		21.00	19.75
		138	5690		21.00	19.84
	802.11ax80-HE0	106	5530	MCS0	16.25	15.12
		122	5610		21.00	19.72
		138	5690		21.00	19.88
	802.11ac160-VHT0	114	5570	MCS0	15.00	13.72
	802.11ax160-HE0	114	5570	MCS0	19.50	18.39

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Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11n20-HT0	149	5745	MCS0	21.00	19.75
		157	5785		21.00	19.81
		165	5825		21.00	19.81
	802.11ac20-VHT0	149	5745	MCS0	21.00	19.74
		157	5785		21.00	19.78
		165	5825		21.00	19.90
	802.11ax20-HE0	149	5745	MCS0	21.00	19.81
		157	5785		21.00	19.83
		165	5825		21.00	19.71
	802.11n40-HT0	151	5755	MCS0	21.00	19.76
		159	5795		21.00	19.75
	802.11ac40-VHT0	151	5755	MCS0	21.00	19.74
		159	5795		21.00	19.85
	802.11ax40-HE0	151	5755	MCS0	21.00	19.76
		159	5795		21.00	19.78
	802.11ac80-VHT0	155	5775	MCS0	20.00	18.71
	802.11ax80-HE0	155	5775	MCS0	21.00	19.78

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11n20-HT0	1	2412	MCS0	16.50	15.23
		2	2417		18.00	16.78
		6	2437		21.00	19.74
		10	2457		19.50	18.26
		11	2462		16.00	14.83
		12	2467		12.00	10.71
		13	2472		9.00	7.75
	802.11ac20-VHT0	1	2412	MCS0	16.50	15.22
		2	2417		18.00	16.82
		6	2437		21.00	19.83
		10	2457		19.50	18.22
		11	2462		16.00	14.81
	802.11ax20-HE0	1	2412	MCS0	19.50	18.32
		2	2417		20.25	18.98
		6	2437		21.00	19.79
		10	2457		19.75	18.60
		11	2462		18.75	17.45
		12	2467		16.00	14.71
		13	2472		9.00	7.88
	802.11n40-HT0	3	2422	MCS0	15.00	13.76
		4	2427		15.75	14.51
		6	2437		15.75	14.51
		8	2447		15.00	13.77
		9	2452		14.75	13.49
		10	2457		12.00	10.79
	802.11ac40-VHT0	11	2462	MCS0	9.00	7.80
		3	2422		15.00	13.85
		4	2427		15.75	14.52
		6	2437		15.75	14.60
		8	2447		15.00	13.86
	802.11ax40-HE0	9	2452	MCS0	14.75	13.55
		3	2422		16.25	15.12
		4	2427		17.50	16.30
		6	2437		19.25	18.13
		8	2447		18.25	17.01
		9	2452		14.75	13.52

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11n20-HT0	36	5180	MCS0	18.00	16.79
		40	5200		19.00	17.78
		44	5220		19.00	17.73
		48	5240		19.00	17.90
	802.11ac20-VHT0	36	5180	MCS0	18.00	16.80
		40	5200		19.00	17.89
		44	5220		19.00	17.79
		48	5240		19.00	17.71
	802.11ax20-HE0	36	5180	MCS0	18.00	16.75
		40	5200		19.00	17.77
		44	5220		19.00	17.71
		48	5240		19.00	17.79
	802.11n40-HT0	38	5190	MCS0	16.00	14.72
		46	5230		21.00	19.81
	802.11ac40-VHT0	38	5190	MCS0	16.00	14.83
		46	5230		21.00	19.88
	802.11ax40-HE0	38	5190	MCS0	18.00	16.83
		46	5230		21.00	19.87
	802.11ac80-VHT0	42	5210	MCS0	15.00	13.73
	802.11ax80-HE0	42	5210	MCS0	16.00	14.88
	802.11ac160-VHT0	50	5250	MCS0	12.00	10.90
	802.11ax160-HE0	50	5250	MCS0	15.25	14.14

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11n20-HT0	52	5260	MCS0	19.00	17.90
		56	5280		19.00	17.77
		60	5300		19.00	17.76
		64	5320		18.50	17.23
	802.11ac20-VHT0	52	5260	MCS0	19.00	17.75
		56	5280		19.00	17.86
		60	5300		19.00	17.85
		64	5320		18.50	17.39
	802.11ax20-HE0	52	5260	MCS0	19.00	17.86
		56	5280		19.00	17.88
		60	5300		19.00	17.84
		64	5320		18.50	17.21
	802.11n40-HT0	54	5270	MCS0	21.00	19.78
		62	5310		16.25	15.11
	802.11ac40-VHT0	54	5270	MCS0	21.00	19.82
		62	5310		16.25	15.04
	802.11ax40-HE0	54	5270	MCS0	21.00	19.79
	802.11ax40-HE0	62	5310		17.25	16.14
	802.11ac80-VHT0	58	5290	MCS0	16.25	15.14
	802.11ax80-HE0	58	5290	MCS0	20.50	19.31

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11n20-HT0	100	5500	MCS0	19.00	17.85
		104	5520		19.00	17.82
		116	5580		19.00	17.78
		120	5600		19.00	17.80
		136	5680		19.00	17.72
		140	5700		18.50	17.25
		144	5720		21.00	19.76
	802.11ac20-VHT0	100	5500	MCS0	19.00	17.85
		104	5520		19.00	17.90
		116	5580		19.00	17.84
		120	5600		19.00	17.77
		136	5680		19.00	17.86
		140	5700		18.50	17.31
		144	5720		21.00	19.80
	802.11ax20-HE0	100	5500	MCS0	19.00	17.82
		104	5520		19.00	17.83
		116	5580		19.00	17.77
		120	5600		19.00	17.82
		136	5680		19.00	17.75
		140	5700		18.50	17.35
		144	5720		21.00	19.81
	802.11n40-HT0	102	5510	MCS0	18.00	16.73
		110	5550		21.00	19.78
		118	5590		21.00	19.89
		134	5670		19.75	18.50
		142	5710		18.50	17.24
	802.11ac40-VHT0	102	5510	MCS0	18.00	16.82
		110	5550		21.00	19.80
		118	5590		21.00	19.87
		134	5670		19.75	18.60
		142	5710		18.50	17.33
	802.11ax40-HE0	102	5510	MCS0	19.00	17.77
		110	5550		21.00	19.75
		118	5590		21.00	19.88
		134	5670		19.75	18.52
		142	5710		18.50	17.24
	802.11ac80-VHT0	106	5530	MCS0	16.00	14.72
		122	5610		21.00	19.86
		138	5690		21.00	19.86
	802.11ax80-HE0	106	5530	MCS0	16.25	15.01
		122	5610		21.00	19.80
		138	5690		21.00	19.84
	802.11ac160-VHT0	114	5570	MCS0	15.00	13.72
	802.11ax160-HE0	114	5570	MCS0	19.50	18.22

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chainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11n20-HT0	149	5745	MCS0	21.00	19.72
		157	5785		21.00	19.72
		165	5825		21.00	19.83
	802.11ac20-VHT0	149	5745	MCS0	21.00	19.70
		157	5785		21.00	19.88
		165	5825		21.00	19.80
	802.11ax20-HE0	149	5745	MCS0	21.00	19.78
		157	5785		21.00	19.85
		165	5825		21.00	19.83
	802.11n40-HT0	151	5755	MCS0	21.00	19.74
		159	5795		21.00	19.85
	802.11ac40-VHT0	151	5755	MCS0	21.00	19.86
		159	5795		21.00	19.89
	802.11ax40-HE0	151	5755	MCS0	21.00	19.84
		159	5795		21.00	19.74
	802.11ac80-VHT0	155	5775	MCS0	20.00	18.71
	802.11ax80-HE0	155	5775	MCS0	21.00	19.72

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Mode 2

ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.00	15.90
		2	2417		16.00	15.89
		6	2437		16.00	15.85
		10	2457		16.00	15.79
		11	2462		16.00	15.72
		12	2467		16.00	15.70
		13	2472		16.00	15.78
	802.11g	1	2412	6Mbps	16.00	15.71
		2	2417		16.00	15.86
		6	2437		16.00	15.83
		10	2457		16.00	15.88
		11	2462		16.00	15.85
		12	2467		15.50	15.28
		13	2472		12.50	12.26
	802.11n20-HT0	1	2412	MCS0	16.00	15.72
		2	2417		16.00	15.89
		6	2437		16.00	15.87
		10	2457		16.00	15.76
		11	2462		16.00	15.72
		12	2467		15.50	15.38
		13	2472		12.50	12.31
	802.11ac20-VHT0	1	2412	MCS0	16.00	15.87
		2	2417		16.00	15.73
		6	2437		16.00	15.83
		10	2457		16.00	15.78
		11	2462		16.00	15.84
	802.11ax20-HE0	1	2412	MCS0	16.00	15.75
	802.11ax20-HE0	2	2417		16.00	15.81
	802.11ax20-HE0	6	2437		16.00	15.75
	802.11ax20-HE0	10	2457		16.00	15.76
	802.11ax20-HE0	11	2462		16.00	15.77
	802.11ax20-HE0_RU_26/8	12	2467		16.00	15.76
	802.11ax20-HE0	13	2472		12.50	12.34
	802.11n40-HT0	3	2422	MCS0	16.00	15.76
		4	2427		16.00	15.88
		6	2437		16.00	15.84
		8	2447		16.00	15.81
		9	2452		16.00	15.74
		10	2457		13.00	12.72
		11	2462		11.50	11.32
	802.11ac40-VHT0	3	2422	MCS0	16.00	15.74
		4	2427		16.00	15.88
		6	2437		16.00	15.86
		8	2447		16.00	15.77
		9	2452		16.00	15.74
	802.11ax40-HE0	3	2422	MCS0	16.00	15.86
		4	2427		16.00	15.72
		6	2437		16.00	15.77
		8	2447		16.00	15.72
		9	2452		16.00	15.72

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	12.50	12.23
		40	5200		12.50	12.11
		44	5220		12.50	12.14
		48	5240		12.50	12.16
	802.11n20-HT0	36	5180	MCS0	12.50	12.11
		40	5200		12.50	12.26
		44	5220		12.50	12.12
		48	5240		12.50	12.19
	802.11ac20-VHT0	36	5180	MCS0	12.50	12.27
		40	5200		12.50	12.15
		44	5220		12.50	12.29
		48	5240		12.50	12.27
	802.11ax20-HE0	36	5180	MCS0	12.50	12.20
		40	5200		12.50	12.18
		44	5220		12.50	12.10
		48	5240		12.50	12.26
	802.11n40-HT0	38	5190	MCS0	12.50	12.11
		46	5230		12.50	12.26
	802.11ac40-VHT0	38	5190	MCS0	12.50	12.15
		46	5230		12.50	12.14
	802.11ax40-HE0	38	5190	MCS0	12.50	12.17
		46	5230		12.50	12.21
	802.11ac80-VHT0	42	5210	MCS0	12.50	12.41
	802.11ax80-HE0	42	5210	MCS0	12.50	12.16
	802.11ac160-VHT0	50	5250	MCS0	12.50	12.40
	802.11ax160-HE0	50	5250	MCS0	12.50	12.27

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	12.50	12.12
		56	5280		12.50	12.29
		60	5300		12.50	12.28
		64	5320		12.50	12.27
	802.11n20-HT0	52	5260	MCS0	12.50	12.10
		56	5280		12.50	12.17
		60	5300		12.50	12.29
		64	5320		12.50	12.12
	802.11ac20-VHT0	52	5260	MCS0	12.50	12.26
		56	5280		12.50	12.13
		60	5300		12.50	12.24
		64	5320		12.50	12.17
	802.11ax20-HE0	52	5260	MCS0	12.50	12.11
		56	5280		12.50	12.20
		60	5300		12.50	12.11
		64	5320		12.50	12.26
	802.11n40-HT0	54	5270	MCS0	12.50	12.46
		62	5310		12.50	12.49
	802.11ac40-VHT0	54	5270	MCS0	12.50	12.26
		62	5310		12.50	12.26
	802.11ax40-HE0	54	5270	MCS0	12.50	12.27
		62	5310		12.50	12.24
	802.11ac80-VHT0	58	5290	MCS0	12.50	12.48
	802.11ax80-HE0	58	5290	MCS0	12.50	12.15

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	12.00	11.77
		104	5520		12.00	11.68
		116	5580		12.00	11.71
		120	5600		12.00	11.62
		136	5680		12.00	11.79
		140	5700		12.00	11.64
		144	5720		12.00	11.77
	802.11n20-HT0	100	5500	MCS0	12.00	11.60
		104	5520		12.00	11.68
		116	5580		12.00	11.72
		120	5600		12.00	11.79
		136	5680		12.00	11.69
		140	5700		12.00	11.61
		144	5720		12.00	11.62
	802.11ac20-VHT0	100	5500	MCS0	12.00	11.63
		104	5520		12.00	11.79
		116	5580		12.00	11.62
		120	5600		12.00	11.74
		136	5680		12.00	11.67
		140	5700		12.00	11.65
		144	5720		12.00	11.78
	802.11ax20-HE0	100	5500	MCS0	12.00	11.62
		104	5520		12.00	11.70
		116	5580		12.00	11.79
		120	5600		12.00	11.79
		136	5680		12.00	11.67
		140	5700		12.00	11.70
		144	5720		12.00	11.64
	802.11n40-HT0	102	5510	MCS0	12.00	11.71
		110	5550		12.00	11.74
		118	5590		12.00	11.66
		134	5670		12.00	11.68
		142	5710		12.00	11.77
	802.11ac40-VHT0	102	5510	MCS0	12.00	11.65
		110	5550		12.00	11.71
		118	5590		12.00	11.71
		134	5670		12.00	11.74
		142	5710		12.00	11.64
	802.11ax40-HE0	102	5510	MCS0	12.00	11.64
		110	5550		12.00	11.69
		118	5590		12.00	11.73
		134	5670		12.00	11.70
		142	5710		12.00	11.71
	802.11ac80-VHT0	106	5530	MCS0	12.00	11.98
		122	5610		12.00	11.72
		138	5690		12.00	11.99
	802.11ax80-HE0	106	5530	MCS0	12.00	11.72
		122	5610		12.00	11.73
		138	5690		12.00	11.74
	802.11ac160-VHT0	114	5570	MCS0	12.00	11.97
	802.11ax160-HE0	114	5570	MCS0	12.00	11.68

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ChainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	12.00	11.73
		157	5785		12.00	11.73
		165	5825		12.00	11.83
	802.11n20-HT0	149	5745	MCS0	12.00	11.77
		157	5785		12.00	11.74
		165	5825		12.00	11.77
	802.11ac20-VHT0	149	5745	MCS0	12.00	11.83
		157	5785		12.00	11.73
		165	5825		12.00	11.72
	802.11ax20-HE0	149	5745	MCS0	12.00	11.89
		157	5785		12.00	11.77
		165	5825		12.00	11.87
	802.11n40-HT0	151	5755	MCS0	12.00	11.71
		159	5795		12.00	11.76
	802.11ac40-VHT0	151	5755	MCS0	12.00	11.78
		159	5795		12.00	11.80
	802.11ax40-HE0	151	5755	MCS0	12.00	11.79
		159	5795		12.00	11.90
	802.11ac80-VHT0	155	5775	MCS0	12.00	11.71
	802.11ax80-HE0	155	5775	MCS0	12.00	11.79

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	17.76
		2	2417		18.00	17.80
		6	2437		18.00	17.88
		10	2457		18.00	17.84
		11	2462		18.00	17.79
		12	2467		18.00	17.79
		13	2472		16.50	16.31
	802.11g	1	2412	6Mbps	18.00	17.76
		2	2417		18.00	17.79
		6	2437		18.00	17.80
		10	2457		18.00	17.89
		11	2462		18.00	17.82
		12	2467		15.50	15.37
		13	2472		12.50	12.37
	802.11n20-HT0	1	2412	MCS0	18.00	17.81
		2	2417		18.00	17.86
		6	2437		18.00	17.82
		10	2457		18.00	17.70
		11	2462		18.00	17.89
		12	2467		15.50	15.36
		13	2472		12.50	12.37
	802.11ac20-VHT0	1	2412	MCS0	18.00	17.72
		2	2417		18.00	17.72
		6	2437		18.00	17.73
		10	2457		18.00	17.77
		11	2462		18.00	17.72
	802.11ax20-HE0	1	2412	MCS0	18.00	17.89
	802.11ax20-HE0	2	2417		18.00	17.80
	802.11ax20-HE0	6	2437		18.00	17.89
	802.11ax20-HE0	10	2457		18.00	17.77
	802.11ax20-HE0	11	2462		18.00	17.73
	802.11ax20-HE0_RU_26/8	12	2467		18.00	17.86
	802.11ax20-HE0	13	2472		12.50	12.38
	802.11n40-HT0	3	2422	MCS0	15.75	15.53
		4	2427		16.75	16.57
		6	2437		18.00	17.71
		8	2447		16.00	15.79
		9	2452		16.00	15.84
		10	2457		12.75	12.61
		11	2462		10.25	10.14
	802.11ac40-VHT0	3	2422	MCS0	15.75	15.53
		4	2427		16.75	16.48
		6	2437		18.00	17.77
		8	2447		16.00	15.83
		9	2452		16.00	15.75
	802.11ax40-HE0_RU_242/61	3	2422	MCS0	18.00	17.78
	802.11ax40-HE0_RU_242/61	4	2427		18.00	17.81
	802.11ax40-HE0	6	2437		18.00	17.74
	802.11ax40-HE0_RU_242/61	8	2447		18.00	17.81
	802.11ax40-HE0_RU_242/61	9	2452		16.25	16.12

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	14.00	13.82
		40	5200		14.00	13.80
		44	5220		14.00	13.75
		48	5240		14.00	13.84
	802.11n20-HT0	36	5180	MCS0	14.00	13.76
		40	5200		14.00	13.78
		44	5220		14.00	13.75
		48	5240		14.00	13.74
	802.11ac20-VHT0	36	5180	MCS0	14.00	13.88
		40	5200		14.00	13.73
		44	5220		14.00	13.90
		48	5240		14.00	13.84
	802.11ax20-HE0	36	5180	MCS0	14.00	13.77
		40	5200		14.00	13.78
		44	5220		14.00	13.82
		48	5240		14.00	13.86
	802.11n40-HT0	38	5190	MCS0	14.00	13.80
		46	5230		14.00	13.77
	802.11ac40-VHT0	38	5190	MCS0	14.00	13.72
		46	5230		14.00	13.75
	802.11ax40-HE0	38	5190	MCS0	14.00	13.72
		46	5230		14.00	13.89
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.86
	802.11ax80-HE0	42	5210	MCS0	14.00	13.76
	802.11ac160-VHT0	50	5250	MCS0	14.00	13.86
	802.11ax160-HE0	50	5250	MCS0	14.00	13.82

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	14.00	13.82
		56	5280		14.00	13.71
		60	5300		14.00	13.86
		64	5320		14.00	13.78
	802.11n20-HT0	52	5260	MCS0	14.00	13.74
		56	5280		14.00	13.71
		60	5300		14.00	13.88
		64	5320		14.00	13.79
	802.11ac20-VHT0	52	5260	MCS0	14.00	13.71
		56	5280		14.00	13.87
		60	5300		14.00	13.78
		64	5320		14.00	13.76
	802.11ax20-HE0	52	5260	MCS0	14.00	13.84
		56	5280		14.00	13.79
		60	5300		14.00	13.89
		64	5320		14.00	13.90
	802.11n40-HT0	54	5270	MCS0	14.00	13.71
		62	5310		14.00	13.77
	802.11ac40-VHT0	54	5270	MCS0	14.00	13.82
		62	5310		14.00	13.86
	802.11ax40-HE0	54	5270	MCS0	14.00	13.84
		62	5310		14.00	13.87
	802.11ac80-VHT0	58	5290	MCS0	14.00	13.72
	802.11ax80-HE0	58	5290	MCS0	14.00	13.78

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.00	13.71
		104	5520		14.00	13.72
		116	5580		14.00	13.67
		120	5600		14.00	13.64
		136	5680		14.00	13.67
		140	5700		14.00	13.65
		144	5720		14.00	13.74
	802.11n20-HT0	100	5500	MCS0	14.00	13.78
		104	5520		14.00	13.70
		116	5580		14.00	13.62
		120	5600		14.00	13.63
		136	5680		14.00	13.72
		140	5700		14.00	13.75
		144	5720		14.00	13.60
	802.11ac20-VHT0	100	5500	MCS0	14.00	13.78
		104	5520		14.00	13.75
		116	5580		14.00	13.74
		120	5600		14.00	13.67
		136	5680		14.00	13.66
		140	5700		14.00	13.62
		144	5720		14.00	13.66
	802.11ax20-HE0	100	5500	MCS0	14.00	13.77
		104	5520		14.00	13.66
		116	5580		14.00	13.76
		120	5600		14.00	13.65
		136	5680		14.00	13.68
		140	5700		14.00	13.65
		144	5720		14.00	13.70
	802.11n40-HT0	102	5510	MCS0	14.00	13.72
		110	5550		14.00	13.65
		118	5590		14.00	13.71
		134	5670		14.00	13.66
		142	5710		14.00	13.65
	802.11ac40-VHT0	102	5510	MCS0	14.00	13.68
		110	5550		14.00	13.63
		118	5590		14.00	13.61
		134	5670		14.00	13.77
		142	5710		14.00	13.62
	802.11ax40-HE0	102	5510	MCS0	14.00	13.61
		110	5550		14.00	13.76
		118	5590		14.00	13.68
		134	5670		14.00	13.60
		142	5710		14.00	13.70
	802.11ac80-VHT0	106	5530	MCS0	14.00	13.99
		122	5610		14.00	13.63
		138	5690		14.00	13.98
	802.11ax80-HE0	106	5530	MCS0	14.00	13.78
		122	5610		14.00	13.80
		138	5690		14.00	13.66
	802.11ac160-VHT0	114	5570	MCS0	14.00	13.94
	802.11ax160-HE0	114	5570	MCS0	14.00	13.71

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ChainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	14.50	14.29
		157	5785		14.50	14.25
		165	5825		14.50	14.28
	802.11n20-HT0	149	5745	MCS0	14.50	14.35
		157	5785		14.50	14.40
		165	5825		14.50	14.28
	802.11ac20-VHT0	149	5745	MCS0	14.50	14.22
		157	5785		14.50	14.30
		165	5825		14.50	14.35
	802.11ax20-HE0	149	5745	MCS0	14.50	14.20
		157	5785		14.50	14.28
		165	5825		14.50	14.32
	802.11n40-HT0	151	5755	MCS0	14.50	14.37
		159	5795		14.50	14.39
	802.11ac40-VHT0	151	5755	MCS0	14.50	14.32
		159	5795		14.50	14.32
	802.11ax40-HE0	151	5755	MCS0	14.50	14.36
		159	5795		14.50	14.29
	802.11ac80-VHT0	155	5775	MCS0	14.50	14.35
	802.11ax80-HE0	155	5775	MCS0	14.50	14.30

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MIMO

chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.00	14.81
		2	2417		16.00	14.73
		6	2437		16.00	14.77
		10	2457		16.00	14.86
		11	2462		16.00	14.81
		12	2467		16.00	14.71
		13	2472		16.00	14.82
	802.11g	1	2412	6Mbps	16.00	14.75
		2	2417		16.00	14.85
		6	2437		16.00	14.75
		10	2457		16.00	14.80
		11	2462		16.00	14.84
		12	2467		15.50	14.39
		13	2472		12.50	11.32
	802.11n20-HT0	1	2412	MCS0	16.00	14.82
		2	2417		16.00	14.76
		6	2437		16.00	14.81
		10	2457		16.00	14.76
		11	2462		16.00	14.72
		12	2467		15.50	14.21
		13	2472		12.50	11.36
	802.11ac20-VHT0	1	2412	MCS0	16.00	14.90
		2	2417		16.00	14.83
		6	2437		16.00	14.78
		10	2457		16.00	14.72
		11	2462		16.00	14.83
	802.11ax20-HE0	1	2412	MCS0	16.00	14.90
		2	2417		16.00	14.78
		6	2437		16.00	14.72
		10	2457		16.00	14.79
		11	2462		16.00	14.89
		12	2467		16.00	14.77
		13	2472		12.50	11.22
	802.11n40-HT0	3	2422	MCS0	16.00	14.74
		4	2427		16.00	14.83
		6	2437		16.00	14.79
		8	2447		16.00	14.82
		9	2452		16.00	14.88
		10	2457		13.00	11.84
		11	2462		11.50	10.23
	802.11ac40-VHT0	3	2422	MCS0	16.00	14.77
		4	2427		16.00	14.78
		6	2437		16.00	14.72
		8	2447		16.00	14.85
		9	2452		16.00	14.82
	802.11ax40-HE0	3	2422	MCS0	16.00	14.73
		4	2427		16.00	14.89
		6	2437		16.00	14.88
		8	2447		16.00	14.72
		9	2452		16.00	14.86

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	12.50	11.32
		40	5200		12.50	11.35
		44	5220		12.50	11.23
		48	5240		12.50	11.33
	802.11n20-HT0	36	5180	MCS0	12.50	11.31
		40	5200		12.50	11.36
		44	5220		12.50	11.28
		48	5240		12.50	11.35
	802.11ac20-VHT0	36	5180	MCS0	12.50	11.34
		40	5200		12.50	11.26
		44	5220		12.50	11.30
		48	5240		12.50	11.32
	802.11ax20-HE0	36	5180	MCS0	12.50	11.22
		40	5200		12.50	11.26
		44	5220		12.50	11.24
		48	5240		12.50	11.22
	802.11n40-HT0	38	5190	MCS0	12.50	11.23
		46	5230		12.50	11.21
	802.11ac40-VHT0	38	5190	MCS0	12.50	11.27
		46	5230		12.50	11.24
	802.11ax40-HE0	38	5190	MCS0	12.50	11.24
		46	5230		12.50	11.23
	802.11ac80-VHT0	42	5210	MCS0	12.50	11.40
	802.11ax80-HE0	42	5210	MCS0	12.50	11.35
	802.11ac160-VHT0	50	5250	MCS0	12.50	11.26
	802.11ax160-HE0	50	5250	MCS0	12.50	11.22

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	12.50	11.29
		56	5280		12.50	11.28
		60	5300		12.50	11.25
		64	5320		12.50	11.39
	802.11n20-HT0	52	5260	MCS0	12.50	11.38
		56	5280		12.50	11.38
		60	5300		12.50	11.22
		64	5320		12.50	11.24
	802.11ac20-VHT0	52	5260	MCS0	12.50	11.27
		56	5280		12.50	11.25
		60	5300		12.50	11.30
		64	5320		12.50	11.38
	802.11ax20-HE0	52	5260	MCS0	12.50	11.31
		56	5280		12.50	11.22
		60	5300		12.50	11.29
		64	5320		12.50	11.31
	802.11n40-HT0	54	5270	MCS0	12.50	11.33
		62	5310		12.50	11.32
	802.11ac40-VHT0	54	5270	MCS0	12.50	11.39
		62	5310		12.50	11.32
	802.11ax40-HE0	54	5270	MCS0	12.50	11.25
		62	5310		12.50	11.34
	802.11ac80-VHT0	58	5290	MCS0	12.50	11.30
	802.11ax80-HE0	58	5290	MCS0	12.50	11.30

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	12.00	10.86
		104	5520		12.00	10.78
		116	5580		12.00	10.85
		120	5600		12.00	10.70
		136	5680		12.00	10.83
		140	5700		12.00	10.78
		144	5720		12.00	10.70
	802.11n20-HT0	100	5500	MCS0	12.00	10.90
		104	5520		12.00	10.77
		116	5580		12.00	10.72
		120	5600		12.00	10.77
		136	5680		12.00	10.71
		140	5700		12.00	10.74
		144	5720		12.00	10.86
	802.11ac20-VHT0	100	5500	MCS0	12.00	10.77
		104	5520		12.00	10.79
		116	5580		12.00	10.76
		120	5600		12.00	10.75
		136	5680		12.00	10.80
		140	5700		12.00	10.75
		144	5720		12.00	10.77
	802.11ax20-HE0	100	5500	MCS0	12.00	10.78
		104	5520		12.00	10.72
		116	5580		12.00	10.84
		120	5600		12.00	10.71
		136	5680		12.00	10.85
		140	5700		12.00	10.80
		144	5720		12.00	10.87
	802.11n40-HT0	102	5510	MCS0	12.00	10.83
		110	5550		12.00	10.78
		118	5590		12.00	10.84
		134	5670		12.00	10.74
		142	5710		12.00	10.74
	802.11ac40-VHT0	102	5510	MCS0	12.00	10.85
		110	5550		12.00	10.88
		118	5590		12.00	10.75
		134	5670		12.00	10.90
		142	5710		12.00	10.80
	802.11ax40-HE0	102	5510	MCS0	12.00	10.90
		110	5550		12.00	10.86
		118	5590		12.00	10.77
		134	5670		12.00	10.77
		142	5710		12.00	10.85
	802.11ac80-VHT0	106	5530	MCS0	12.00	10.85
		122	5610		12.00	10.90
		138	5690		12.00	10.81
	802.11ax80-HE0	106	5530	MCS0	12.00	10.89
		122	5610		12.00	10.81
		138	5690		12.00	10.82
	802.11ac160-VHT0	114	5570	MCS0	12.00	10.88
	802.11ax160-HE0	114	5570	MCS0	12.00	10.76

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chainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	12.00	10.79
		157	5785		12.00	10.80
		165	5825		12.00	10.87
	802.11n20-HT0	149	5745	MCS0	12.00	10.81
		157	5785		12.00	10.79
		165	5825		12.00	10.80
	802.11ac20-VHT0	149	5745	MCS0	12.00	10.85
		157	5785		12.00	10.84
		165	5825		12.00	10.71
	802.11ax20-HE0	149	5745	MCS0	12.00	10.77
		157	5785		12.00	10.79
		165	5825		12.00	10.80
	802.11n40-HT0	151	5755	MCS0	12.00	10.76
		159	5795		12.00	10.87
	802.11ac40-VHT0	151	5755	MCS0	12.00	10.86
		159	5795		12.00	10.84
	802.11ax40-HE0	151	5755	MCS0	12.00	10.84
		159	5795		12.00	10.85
	802.11ac80-VHT0	155	5775	MCS0	12.00	10.71
	802.11ax80-HE0	155	5775	MCS0	12.00	10.77

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	16.74
		2	2417		18.00	16.72
		6	2437		18.00	16.82
		10	2457		18.00	16.74
		11	2462		18.00	16.80
		12	2467		18.00	16.87
		13	2472		16.50	15.34
	802.11g	1	2412	6Mbps	18.00	16.74
		2	2417		18.00	16.89
		6	2437		18.00	16.76
		10	2457		18.00	16.86
		11	2462		18.00	16.75
		12	2467		15.50	14.38
		13	2472		12.50	11.35
	802.11n20-HT0	1	2412	MCS0	18.00	16.86
		2	2417		18.00	16.78
		6	2437		18.00	16.80
		10	2457		18.00	16.83
		11	2462		18.00	16.74
		12	2467		15.50	14.38
		13	2472		12.50	11.23
	802.11ac20-VHT0	1	2412	MCS0	18.00	16.90
		2	2417		18.00	16.79
		6	2437		18.00	16.79
		10	2457		18.00	16.89
		11	2462		18.00	16.85
	802.11ax20-HE0	1	2412	MCS0	18.00	16.77
		2	2417		18.00	16.90
		6	2437		18.00	16.86
		10	2457		18.00	16.86
		11	2462		18.00	16.72
		12	2467		18.00	16.88
		13	2472		12.50	11.31
	802.11n40-HT0	3	2422	MCS0	15.75	14.45
		4	2427		16.75	15.56
		6	2437		18.00	16.78
		8	2447		16.00	14.75
		9	2452		16.00	14.83
		10	2457		12.75	11.49
		11	2462		10.25	9.00
	802.11ac40-VHT0	3	2422	MCS0	15.75	14.60
		4	2427		16.75	15.46
		6	2437		18.00	16.86
		8	2447		16.00	14.90
		9	2452		16.00	14.72
	802.11ax40-HE0_RU_242/61	3	2422	MCS0	18.00	16.76
	802.11ax40-HE0_RU_242/61	4	2427		18.00	16.85
	802.11ax40-HE0	6	2437		18.00	16.74
	802.11ax40-HE0_RU_242/61	8	2447		18.00	16.79
	802.11ax40-HE0_RU_242/61	9	2452		16.25	15.12

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	14.00	12.75
		40	5200		14.00	12.73
		44	5220		14.00	12.76
		48	5240		14.00	12.74
	802.11n20-HT0	36	5180	MCS0	14.00	12.71
		40	5200		14.00	12.74
		44	5220		14.00	12.84
		48	5240		14.00	12.78
	802.11ac20-VHT0	36	5180	MCS0	14.00	12.79
		40	5200		14.00	12.73
		44	5220		14.00	12.74
		48	5240		14.00	12.74
	802.11ax20-HE0	36	5180	MCS0	14.00	12.78
		40	5200		14.00	12.71
		44	5220		14.00	12.84
		48	5240		14.00	12.75
	802.11n40-HT0	38	5190	MCS0	14.00	12.74
		46	5230		14.00	12.73
	802.11ac40-VHT0	38	5190	MCS0	14.00	12.74
		46	5230		14.00	12.84
	802.11ax40-HE0	38	5190	MCS0	14.00	12.80
		46	5230		14.00	12.83
	802.11ac80-VHT0	42	5210	MCS0	14.00	12.81
	802.11ax80-HE0	42	5210	MCS0	14.00	12.73
	802.11ac160-VHT0	50	5250	MCS0	14.00	12.76
	802.11ax160-HE0	50	5250	MCS0	14.00	12.82

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	14.00	12.71
		56	5280		14.00	12.81
		60	5300		14.00	12.80
		64	5320		14.00	12.84
	802.11n20-HT0	52	5260	MCS0	14.00	12.72
		56	5280		14.00	12.82
		60	5300		14.00	12.84
		64	5320		14.00	12.87
	802.11ac20-VHT0	52	5260	MCS0	14.00	12.70
		56	5280		14.00	12.73
		60	5300		14.00	12.83
		64	5320		14.00	12.72
	802.11ax20-HE0	52	5260	MCS0	14.00	12.87
		56	5280		14.00	12.77
		60	5300		14.00	12.74
		64	5320		14.00	12.73
	802.11n40-HT0	54	5270	MCS0	14.00	12.79
		62	5310		14.00	12.71
	802.11ac40-VHT0	54	5270	MCS0	14.00	12.85
		62	5310		14.00	12.77
	802.11ax40-HE0	54	5270	MCS0	14.00	12.90
		62	5310		14.00	12.85
	802.11ac80-VHT0	58	5290	MCS0	14.00	12.83
	802.11ax80-HE0	58	5290	MCS0	14.00	12.76

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.00	12.85
		104	5520		14.00	12.70
		116	5580		14.00	12.84
		120	5600		14.00	12.89
		136	5680		14.00	12.89
		140	5700		14.00	12.76
		144	5720		14.00	12.89
	802.11n20-HT0	100	5500	MCS0	14.00	12.78
		104	5520		14.00	12.73
		116	5580		14.00	12.74
		120	5600		14.00	12.82
		136	5680		14.00	12.73
		140	5700		14.00	12.79
		144	5720		14.00	12.87
	802.11ac20-VHT0	100	5500	MCS0	14.00	12.83
		104	5520		14.00	12.88
		116	5580		14.00	12.87
		120	5600		14.00	12.72
		136	5680		14.00	12.86
		140	5700		14.00	12.79
		144	5720		14.00	12.90
	802.11ax20-HE0	100	5500	MCS0	14.00	12.81
		104	5520		14.00	12.76
		116	5580		14.00	12.75
		120	5600		14.00	12.82
		136	5680		14.00	12.87
		140	5700		14.00	12.88
		144	5720		14.00	12.78
	802.11n40-HT0	102	5510	MCS0	14.00	12.81
		110	5550		14.00	12.76
		118	5590		14.00	12.78
		134	5670		14.00	12.78
		142	5710		14.00	12.74
	802.11ac40-VHT0	102	5510	MCS0	14.00	12.87
		110	5550		14.00	12.75
		118	5590		14.00	12.71
		134	5670		14.00	12.72
		142	5710		14.00	12.86
	802.11ax40-HE0	102	5510	MCS0	14.00	12.84
		110	5550		14.00	12.82
		118	5590		14.00	12.73
		134	5670		14.00	12.86
		142	5710		14.00	12.71
	802.11ac80-VHT0	106	5530	MCS0	14.00	12.84
		122	5610		14.00	12.78
		138	5690		14.00	12.84
	802.11ax80-HE0	106	5530	MCS0	14.00	12.85
		122	5610		14.00	12.80
		138	5690		14.00	12.76
	802.11ac160-VHT0	114	5570	MCS0	14.00	12.89
	802.11ax160-HE0	114	5570	MCS0	14.00	12.87

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chainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	14.50	13.28
		157	5785		14.50	13.28
		165	5825		14.50	13.21
	802.11n20-HT0	149	5745	MCS0	14.50	13.20
		157	5785		14.50	13.24
		165	5825		14.50	13.22
	802.11ac20-VHT0	149	5745	MCS0	14.50	13.23
		157	5785		14.50	13.30
		165	5825		14.50	13.23
	802.11ax20-HE0	149	5745	MCS0	14.50	13.22
		157	5785		14.50	13.34
		165	5825		14.50	13.38
	802.11n40-HT0	151	5755	MCS0	14.50	13.21
		159	5795		14.50	13.26
	802.11ac40-VHT0	151	5755	MCS0	14.50	13.30
		159	5795		14.50	13.32
	802.11ax40-HE0	151	5755	MCS0	14.50	13.30
		159	5795		14.50	13.25
	802.11ac80-VHT0	155	5775	MCS0	14.50	13.27
	802.11ax80-HE0	155	5775	MCS0	14.50	13.31

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6.2 WIFI 6E

AWAN

Mode 1

ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.56
		45	6175		5.50	4.53
		93	6415		5.50	4.67
	802.11ax40-HE0	3	5965	MCS0	8.75	7.54
		43	6165		8.75	7.70
		91	6405		8.75	7.62
	802.11ax80-HE0	7	5985	MCS0	11.25	10.37
		39	6145		11.25	10.28
		87	6385		11.25	10.39
	802.11ax160-HE0	15	6025	MCS0	14.00	13.99
		47	6185		14.00	13.97
		79	6345		14.00	13.98
ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.64
		105	6475		5.50	4.57
		113	6515		5.50	4.51
	802.11ax40-HE0	99	6445	MCS0	8.75	7.60
		107	6485		8.75	7.60
	802.11ax80-HE0	103	6465	MCS0	11.25	10.33
		119	6545		11.25	10.29
	802.11ax160-HE0	111	6505	MCS0	14.00	13.98

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	4.51
		149	6695		4.75	4.63
		181	6855		4.75	4.69
	802.11ax40-HE0	115	6525	MCS0	8.75	7.51
		147	6685		8.00	7.53
		179	6845		8.00	7.52
	802.11ax80-HE0	135	6625	MCS0	10.50	10.39
		151	6705		10.50	10.36
		167	6785		10.50	10.26
	802.11ax160-HE0	143	6665	MCS0	13.50	13.24
		175	6825		13.50	13.21
ChainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	4.66
		209	6995		4.75	4.64
		233	7115		0.50	0.27
	802.11ax40-HE0	187	6885	MCS0	8.00	7.56
		227	7085		8.00	7.52
	802.11ax80-HE0	183	6865	MCS0	10.50	10.32
		199	6945		10.50	10.29
		215	7025		10.50	10.24
	802.11ax160-HE0	207	6985	MCS0	13.50	13.24

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.66
		45	6175		5.50	4.62
		93	6415		5.50	4.66
	802.11ax40-HE0	3	5965	MCS0	8.75	7.60
		43	6165		8.75	7.68
		91	6405		8.75	7.64
	802.11ax80-HE0	7	5985	MCS0	11.25	10.31
		39	6145		11.25	10.37
		87	6385		11.25	10.23
	802.11ax160-HE0	15	6025	MCS0	14.00	13.92
		47	6185		14.00	13.99
		79	6345		14.00	13.94
ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.64
		105	6475		5.50	4.60
		113	6515		5.50	4.68
	802.11ax40-HE0	99	6445	MCS0	8.75	8.73
		107	6485		8.75	8.67
	802.11ax80-HE0	103	6465	MCS0	11.25	10.36
		119	6545		11.25	10.33
	802.11ax160-HE0	111	6505	MCS0	14.00	13.95

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	4.61
		149	6695		4.75	4.63
		181	6855		4.75	4.63
	802.11ax40-HE0	115	6525	MCS0	8.75	7.68
		147	6685		8.00	7.61
		179	6845		8.00	7.60
	802.11ax80-HE0	135	6625	MCS0	10.50	10.22
		151	6705		10.50	10.32
		167	6785		10.50	10.27
	802.11ax160-HE0	143	6665	MCS0	13.50	13.20
		175	6825		13.50	13.16
ChainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	4.66
		209	6995		4.75	4.67
		233	7115		0.50	0.35
	802.11ax40-HE0	187	6885	MCS0	8.00	7.66
		227	7085		8.00	7.63
	802.11ax80-HE0	183	6865	MCS0	10.50	10.27
		199	6945		10.50	10.36
		215	7025		10.50	10.23
	802.11ax160-HE0	207	6985	MCS0	13.50	13.21

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MIMO

ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	2.50	1.49
		45	6175		2.50	1.35
		93	6415		2.50	1.38
	802.11ax40-HE0	3	5965	MCS0	5.75	4.62
		43	6165		5.75	4.61
		91	6405		5.75	4.69
	802.11ax80-HE0	7	5985	MCS0	8.25	7.09
		39	6145		8.25	7.14
		87	6385		8.25	7.18
	802.11ax160-HE0	15	6025	MCS0	11.00	9.87
		47	6185		11.00	9.83
		79	6345		11.00	9.95
ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	2.50	1.42
		105	6475		2.50	1.50
		113	6515		2.50	1.50
	802.11ax40-HE0	99	6445	MCS0	5.75	4.65
		107	6485		5.75	4.60
	802.11ax80-HE0	103	6465	MCS0	8.25	7.20
		119	6545		8.25	7.10
	802.11ax160-HE0	111	6505	MCS0	11.00	9.85

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	1.75	0.71
		149	6695		1.75	0.55
		181	6855		1.75	0.72
	802.11ax40-HE0	115	6525	MCS0	5.00	3.81
		147	6685		5.00	3.88
		179	6845		5.00	3.94
	802.11ax80-HE0	135	6625	MCS0	7.50	6.34
		151	6705		7.50	6.35
		167	6785		7.50	6.43
	802.11ax160-HE0	143	6665	MCS0	10.25	9.11
		175	6825		10.25	9.15
ChainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	1.75	0.60
		209	6995		1.75	0.69
		233	7115		(2.00)	(3.03)
	802.11ax40-HE0	187	6885	MCS0	5.00	3.93
		227	7085		5.00	3.86
	802.11ax80-HE0	183	6865	MCS0	7.50	6.33
		199	6945		7.50	6.30
		215	7025		7.50	6.43
	802.11ax160-HE0	207	6985	MCS0	10.25	9.06

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	2.50	1.35
		45	6175		2.50	1.32
		93	6415		2.50	1.40
	802.11ax40-HE0	3	5965	MCS0	5.75	4.62
		43	6165		5.75	4.58
		91	6405		5.75	4.60
	802.11ax80-HE0	7	5985	MCS0	8.25	7.14
		39	6145		8.25	7.21
		87	6385		8.25	7.22
	802.11ax160-HE0	15	6025	MCS0	11.00	9.99
		47	6185		11.00	9.95
		79	6345		11.00	9.85
ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	2.50	1.42
		105	6475		2.50	1.41
		113	6515		2.50	1.37
	802.11ax40-HE0	99	6445	MCS0	5.75	4.64
		107	6485		5.75	4.55
	802.11ax80-HE0	103	6465	MCS0	8.25	7.06
		119	6545		8.25	7.08
	802.11ax160-HE0	111	6505	MCS0	11.00	9.92

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	1.75	0.67
		149	6695		1.75	0.64
		181	6855		1.75	0.61
	802.11ax40-HE0	115	6525	MCS0	5.00	3.94
		147	6685		5.00	4.00
		179	6845		5.00	3.94
	802.11ax80-HE0	135	6625	MCS0	7.50	6.37
		151	6705		7.50	6.50
		167	6785		7.50	6.39
	802.11ax160-HE0	143	6665	MCS0	10.25	9.22
		175	6825		10.25	9.21
ChainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	1.75	0.64
		209	6995		1.75	0.59
		233	7115		(2.00)	(3.15)
	802.11ax40-HE0	187	6885	MCS0	5.00	3.84
		227	7085		5.00	3.98
	802.11ax80-HE0	183	6865	MCS0	7.50	6.49
		199	6945		7.50	6.46
		215	7025		7.50	6.46
	802.11ax160-HE0	207	6985	MCS0	10.25	9.22

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Mode 2

chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.67
		45	6175		5.50	4.68
		93	6415		5.50	4.66
	802.11ax40-HE0	3	5965	MCS0	8.75	7.67
		43	6165		8.75	7.64
		91	6405		8.75	7.65
	802.11ax80-HE0	7	5985	MCS0	11.25	10.23
		39	6145		11.25	10.26
		87	6385		11.25	10.27
	802.11ax160-HE0	15	6025	MCS0	12.00	11.99
		47	6185		12.00	11.94
		79	6345		12.00	11.95
chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.60
		105	6475		5.50	4.64
		113	6515		5.50	4.69
	802.11ax40-HE0	99	6445	MCS0	8.75	7.60
		107	6485		8.75	7.63
	802.11ax80-HE0	103	6465	MCS0	11.25	10.37
		119	6545		11.25	10.38
	802.11ax160-HE0	111	6505	MCS0	11.50	11.44

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	4.61
		149	6695		4.75	4.65
		181	6855		4.75	4.69
	802.11ax40-HE0	115	6525	MCS0	8.75	7.68
		147	6685		8.00	7.65
		179	6845		8.00	7.64
	802.11ax80-HE0	135	6625	MCS0	10.50	10.34
		151	6705		10.50	10.24
		167	6785		10.50	10.23
	802.11ax160-HE0	143	6665	MCS0	11.00	10.98
		175	6825		11.00	10.91
chainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	4.68
		209	6995		4.75	4.58
		233	7115		0.50	0.40
	802.11ax40-HE0	187	6885	MCS0	8.00	7.66
		227	7085		8.00	7.69
	802.11ax80-HE0	183	6865	MCS0	10.50	10.37
		199	6945		10.50	10.32
		215	7025		10.50	10.23
	802.11ax160-HE0	207	6985	MCS0	12.75	12.74

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.66
		45	6175		5.50	4.62
		93	6415		5.50	4.66
	802.11ax40-HE0	3	5965	MCS0	8.75	7.60
		43	6165		8.75	7.68
		91	6405		8.75	7.64
	802.11ax80-HE0	7	5985	MCS0	11.25	10.31
		39	6145		11.25	10.37
		87	6385		11.25	10.23
	802.11ax160-HE0	15	6025	MCS0	13.50	13.44
		47	6185		13.50	13.48
		79	6345		13.50	13.41
chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.64
		105	6475		5.50	4.60
		113	6515		5.50	4.68
	802.11ax40-HE0	99	6445	MCS0	8.75	8.73
		107	6485		8.75	8.67
	802.11ax80-HE0	103	6465	MCS0	11.25	10.36
		119	6545		11.25	10.33
	802.11ax160-HE0	111	6505	MCS0	13.50	13.49

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	4.61
		149	6695		4.75	4.63
		181	6855		4.75	4.63
	802.11ax40-HE0	115	6525	MCS0	8.75	7.68
		147	6685		8.00	7.61
		179	6845		8.00	7.60
	802.11ax80-HE0	135	6625	MCS0	10.50	10.22
		151	6705		10.50	10.32
		167	6785		10.50	10.27
	802.11ax160-HE0	143	6665	MCS0	13.25	13.18
		175	6825		13.25	13.13
chainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	4.63
		209	6995		4.75	4.65
		233	7115		0.50	0.35
	802.11ax40-HE0	187	6885	MCS0	8.00	7.64
		227	7085		8.00	7.61
	802.11ax80-HE0	183	6865	MCS0	10.50	10.39
		199	6945		10.50	10.40
		215	7025		10.50	10.20
	802.11ax160-HE0	207	6985	MCS0	12.00	11.94

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MIMO

chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.42
		45	6175		5.50	4.47
		93	6415		5.50	4.46
	802.11ax40-HE0	3	5965	MCS0	8.75	7.57
		43	6165		8.75	7.59
		91	6405		8.75	7.72
	802.11ax80-HE0	7	5985	MCS0	11.25	10.15
		39	6145		11.25	10.12
		87	6385		11.25	10.20
	802.11ax160-HE0	15	6025	MCS0	12.00	10.96
		47	6185		12.00	10.81
		79	6345		12.00	10.92
chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.40
		105	6475		5.50	4.37
		113	6515		5.50	4.31
	802.11ax40-HE0	99	6445	MCS0	8.75	7.71
		107	6485		8.75	7.59
	802.11ax80-HE0	103	6465	MCS0	11.25	10.07
		119	6545		11.25	10.13
	802.11ax160-HE0	111	6505	MCS0	11.50	10.49

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	3.60
		149	6695		4.75	3.58
		181	6855		4.75	3.70
	802.11ax40-HE0	115	6525	MCS0	8.75	7.59
		147	6685		8.00	6.97
		179	6845		8.00	6.94
	802.11ax80-HE0	135	6625	MCS0	10.50	9.38
		151	6705		10.50	9.45
		167	6785		10.50	9.35
	802.11ax160-HE0	143	6665	MCS0	11.00	9.97
		175	6825		11.00	9.96
chainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	3.69
		209	6995		4.75	3.69
		233	7115		0.50	(0.65)
	802.11ax40-HE0	187	6885	MCS0	8.00	6.82
		227	7085		8.00	6.95
	802.11ax80-HE0	183	6865	MCS0	10.50	9.45
		199	6945		10.50	9.31
		215	7025		10.50	9.44
	802.11ax160-HE0	207	6985	MCS0	12.75	11.67

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.34
		45	6175		5.50	4.36
		93	6415		5.50	4.44
	802.11ax40-HE0	3	5965	MCS0	8.75	7.64
		43	6165		8.75	7.62
		91	6405		8.75	7.66
	802.11ax80-HE0	7	5985	MCS0	11.25	10.15
		39	6145		11.25	10.16
		87	6385		11.25	10.08
	802.11ax160-HE0	15	6025	MCS0	13.50	12.38
		47	6185		13.50	12.32
		79	6345		13.50	12.49
chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.46
		105	6475		5.50	4.40
		113	6515		5.50	4.37
	802.11ax40-HE0	99	6445	MCS0	8.75	7.70
		107	6485		8.75	7.64
	802.11ax80-HE0	103	6465	MCS0	11.25	10.23
		119	6545		11.25	10.15
	802.11ax160-HE0	111	6505	MCS0	13.50	12.32

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	3.65
		149	6695		4.75	3.65
		181	6855		4.75	3.58
	802.11ax40-HE0	115	6525	MCS0	8.75	7.61
		147	6685		8.00	6.84
		179	6845		8.00	6.83
	802.11ax80-HE0	135	6625	MCS0	10.50	9.40
		151	6705		10.50	9.47
		167	6785		10.50	9.33
	802.11ax160-HE0	143	6665	MCS0	13.25	12.09
		175	6825		13.25	12.22
chainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	3.65
		209	6995		4.75	3.67
		233	7115		0.50	(0.53)
	802.11ax40-HE0	187	6885	MCS0	8.00	6.97
		227	7085		8.00	6.82
	802.11ax80-HE0	183	6865	MCS0	10.50	9.43
		199	6945		10.50	9.47
		215	7025		10.50	9.42
	802.11ax160-HE0	207	6985	MCS0	12.00	10.97

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Hong Bo Mode 1

ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.65
		45	6175		5.50	4.54
		93	6415		5.50	4.65
	802.11ax40-HE0	3	5965	MCS0	8.75	7.59
		43	6165		8.75	7.66
		91	6405		8.75	7.53
	802.11ax80-HE0	7	5985	MCS0	11.25	10.35
		39	6145		11.25	10.39
		87	6385		11.25	10.20
	802.11ax160-HE0	15	6025	MCS0	14.00	13.98
		47	6185		14.00	13.95
		79	6345		14.00	13.81
ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.62
		105	6475		5.50	4.51
		113	6515		5.50	4.66
	802.11ax40-HE0	99	6445	MCS0	8.75	7.60
		107	6485		8.75	7.54
	802.11ax80-HE0	103	6465	MCS0	11.25	10.25
		119	6545		11.25	10.23
	802.11ax160-HE0	111	6505	MCS0	14.00	13.84

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	4.58
		149	6695		4.75	4.61
		181	6855		4.75	4.70
	802.11ax40-HE0	115	6525	MCS0	8.75	7.63
		147	6685		8.00	7.54
		179	6845		8.00	7.55
	802.11ax80-HE0	135	6625	MCS0	10.50	10.37
		151	6705		10.50	10.23
		167	6785		10.50	10.29
	802.11ax160-HE0	143	6665	MCS0	13.50	13.50
		175	6825		13.50	13.47
ChainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	4.69
		209	6995		4.75	4.68
		233	7115		0.50	0.42
	802.11ax40-HE0	187	6885	MCS0	8.00	7.65
		227	7085		8.00	7.54
	802.11ax80-HE0	183	6865	MCS0	10.50	10.26
		199	6945		10.50	10.24
		215	7025		10.50	10.23
	802.11ax160-HE0	207	6985	MCS0	13.50	13.43

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SGS Taiwan Ltd.

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.70
		45	6175		5.50	4.67
		93	6415		5.50	4.54
	802.11ax40-HE0	3	5965	MCS0	8.75	7.56
		43	6165		8.75	7.52
		91	6405		8.75	7.66
	802.11ax80-HE0	7	5985	MCS0	11.25	10.20
		39	6145		11.25	10.21
		87	6385		11.25	10.38
	802.11ax160-HE0	15	6025	MCS0	14.00	13.92
		47	6185		14.00	13.99
		79	6345		14.00	13.94
ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.54
		105	6475		5.50	4.70
		113	6515		5.50	4.56
	802.11ax40-HE0	99	6445	MCS0	8.75	7.69
		107	6485		8.75	7.57
	802.11ax80-HE0	103	6465	MCS0	11.25	10.31
		119	6545		11.25	10.37
	802.11ax160-HE0	111	6505	MCS0	14.00	13.95

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	4.52
		149	6695		4.75	4.61
		181	6855		4.75	4.61
	802.11ax40-HE0	115	6525	MCS0	8.75	7.54
		147	6685		8.00	7.50
		179	6845		8.00	7.55
	802.11ax80-HE0	135	6625	MCS0	10.50	10.33
		151	6705		10.50	10.39
		167	6785		10.50	10.32
	802.11ax160-HE0	143	6665	MCS0	13.50	13.20
		175	6825		13.50	13.16
ChainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	4.53
		209	6995		4.75	4.68
		233	7115		0.50	0.41
	802.11ax40-HE0	187	6885	MCS0	8.00	7.53
		227	7085		8.00	7.54
	802.11ax80-HE0	183	6865	MCS0	10.50	10.22
		199	6945		10.50	10.22
		215	7025		10.50	10.38
	802.11ax160-HE0	207	6985	MCS0	13.50	13.38

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MIMO

ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	2.50	1.38
		45	6175		2.50	1.24
		93	6415		2.50	1.24
	802.11ax40-HE0	3	5965	MCS0	5.75	4.64
		43	6165		5.75	4.62
		91	6405		5.75	4.53
	802.11ax80-HE0	7	5985	MCS0	8.25	7.04
		39	6145		8.25	7.13
		87	6385		8.25	7.08
	802.11ax160-HE0	15	6025	MCS0	11.00	9.82
		47	6185		11.00	9.70
		79	6345		11.00	9.75

ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	2.50	1.37
		105	6475		2.50	1.32
		113	6515		2.50	1.33
	802.11ax40-HE0	99	6445	MCS0	5.75	4.48
		107	6485		5.75	4.53
	802.11ax80-HE0	103	6465	MCS0	8.25	7.01
		119	6545		8.25	7.06
	802.11ax160-HE0	111	6505	MCS0	11.00	9.75

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	1.75	0.45
		149	6695		1.75	0.58
		181	6855		1.75	0.60
	802.11ax40-HE0	115	6525	MCS0	5.00	3.84
		147	6685		5.00	3.89
		179	6845		5.00	3.88
	802.11ax80-HE0	135	6625	MCS0	7.50	6.35
		151	6705		7.50	6.34
		167	6785		7.50	6.37
	802.11ax160-HE0	143	6665	MCS0	10.25	9.06
		175	6825		10.25	9.08

ChainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	1.75	0.48
		209	6995		1.75	0.53
		233	7115		(2.00)	(3.19)
	802.11ax40-HE0	187	6885	MCS0	5.00	3.89
		227	7085		5.00	3.75
	802.11ax80-HE0	183	6865	MCS0	7.50	6.31
		199	6945		7.50	6.28
		215	7025		7.50	6.25
	802.11ax160-HE0	207	6985	MCS0	10.25	9.13

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	2.50	1.27
		45	6175		2.50	1.23
		93	6415		2.50	1.27
	802.11ax40-HE0	3	5965	MCS0	5.75	4.58
		43	6165		5.75	4.63
		91	6405		5.75	4.53
	802.11ax80-HE0	7	5985	MCS0	8.25	7.13
		39	6145		8.25	7.06
		87	6385		8.25	7.05
	802.11ax160-HE0	15	6025	MCS0	11.00	9.73
		47	6185		11.00	9.74
		79	6345		11.00	9.78

ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	2.50	1.29
		105	6475		2.50	1.38
		113	6515		2.50	1.36
	802.11ax40-HE0	99	6445	MCS0	5.75	4.50
		107	6485		5.75	4.53
	802.11ax80-HE0	103	6465	MCS0	8.25	7.14
		119	6545		8.25	7.10
	802.11ax160-HE0	111	6505	MCS0	11.00	9.90

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	1.75	0.55
		149	6695		1.75	0.61
		181	6855		1.75	0.55
	802.11ax40-HE0	115	6525	MCS0	5.00	3.88
		147	6685		5.00	3.84
		179	6845		5.00	3.87
	802.11ax80-HE0	135	6625	MCS0	7.50	6.31
		151	6705		7.50	6.23
		167	6785		7.50	6.27
	802.11ax160-HE0	143	6665	MCS0	10.25	9.08
		175	6825		10.25	8.96

ChainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	1.75	0.61
		209	6995		1.75	0.63
		233	7115		(2.00)	(3.24)
	802.11ax40-HE0	187	6885	MCS0	5.00	3.85
		227	7085		5.00	3.78
	802.11ax80-HE0	183	6865	MCS0	7.50	6.23
		199	6945		7.50	6.34
		215	7025		7.50	6.27
	802.11ax160-HE0	207	6985	MCS0	10.25	8.98

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Mode 2

ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.62
		45	6175		5.50	4.70
		93	6415		5.50	4.60
	802.11ax40-HE0	3	5965	MCS0	8.75	7.64
		43	6165		8.75	7.67
		91	6405		8.75	7.61
	802.11ax80-HE0	7	5985	MCS0	11.25	10.22
		39	6145		11.25	10.25
		87	6385		11.25	10.38
	802.11ax160-HE0	15	6025	MCS0	12.00	11.90
		47	6185		12.00	11.94
		79	6345		12.00	11.95
ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.59
		105	6475		5.50	4.68
		113	6515		5.50	4.52
	802.11ax40-HE0	99	6445	MCS0	8.75	7.57
		107	6485		8.75	7.57
	802.11ax80-HE0	103	6465	MCS0	11.25	10.26
		119	6545		11.25	10.22
	802.11ax160-HE0	111	6505	MCS0	11.50	11.47

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ChainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	4.57
		149	6695		4.75	4.67
		181	6855		4.75	4.67
	802.11ax40-HE0	115	6525	MCS0	8.75	7.61
		147	6685		8.00	7.69
		179	6845		8.00	7.56
	802.11ax80-HE0	135	6625	MCS0	10.50	10.37
		151	6705		10.50	10.29
		167	6785		10.50	10.21
	802.11ax160-HE0	143	6665	MCS0	11.00	10.85
		175	6825		11.00	10.84
ChainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	4.51
		209	6995		4.75	4.61
		233	7115		0.50	0.41
	802.11ax40-HE0	187	6885	MCS0	8.00	7.52
		227	7085		8.00	7.65
	802.11ax80-HE0	183	6865	MCS0	10.50	10.24
		199	6945		10.50	10.29
		215	7025		10.50	10.27
	802.11ax160-HE0	207	6985	MCS0	12.75	12.57

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.70
		45	6175		5.50	4.67
		93	6415		5.50	4.54
	802.11ax40-HE0	3	5965	MCS0	8.75	7.56
		43	6165		8.75	7.52
		91	6405		8.75	7.66
	802.11ax80-HE0	7	5985	MCS0	11.25	10.20
		39	6145		11.25	10.21
		87	6385		11.25	10.38
	802.11ax160-HE0	15	6025	MCS0	13.50	13.49
		47	6185		13.50	13.47
		79	6345		13.50	13.45
ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.54
		105	6475		5.50	4.70
		113	6515		5.50	4.56
	802.11ax40-HE0	99	6445	MCS0	8.75	7.69
		107	6485		8.75	7.57
	802.11ax80-HE0	103	6465	MCS0	11.25	10.31
		119	6545		11.25	10.37
	802.11ax160-HE0	111	6505	MCS0	13.50	13.48

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ChainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	4.52
		149	6695		4.75	4.61
		181	6855		4.75	4.61
	802.11ax40-HE0	115	6525	MCS0	8.75	7.54
		147	6685		8.00	7.50
		179	6845		8.00	7.55
	802.11ax80-HE0	135	6625	MCS0	10.50	10.33
		151	6705		10.50	10.39
		167	6785		10.50	10.32
	802.11ax160-HE0	143	6665	MCS0	13.25	13.06
		175	6825		13.25	13.05
ChainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	4.55
		209	6995		4.75	4.59
		233	7115		0.50	0.49
	802.11ax40-HE0	187	6885	MCS0	8.00	7.69
		227	7085		8.00	7.70
	802.11ax80-HE0	183	6865	MCS0	10.50	10.22
		199	6945		10.50	10.21
		215	7025		10.50	10.29
	802.11ax160-HE0	207	6985	MCS0	12.00	11.76

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MIMO

chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.24
		45	6175		5.50	4.39
		93	6415		5.50	4.22
	802.11ax40-HE0	3	5965	MCS0	8.75	7.63
		43	6165		8.75	7.51
		91	6405		8.75	7.52
	802.11ax80-HE0	7	5985	MCS0	11.25	10.12
		39	6145		11.25	9.99
		87	6385		11.25	10.14
	802.11ax160-HE0	15	6025	MCS0	12.00	10.75
		47	6185		12.00	10.85
		79	6345		12.00	10.84

chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.23
		105	6475		5.50	4.39
		113	6515		5.50	4.38
	802.11ax40-HE0	99	6445	MCS0	8.75	7.54
		107	6485		8.75	7.54
	802.11ax80-HE0	103	6465	MCS0	11.25	10.08
		119	6545		11.25	10.08
	802.11ax160-HE0	111	6505	MCS0	11.50	10.32

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chainA						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	3.49
		149	6695		4.75	3.52
		181	6855		4.75	3.50
	802.11ax40-HE0	115	6525	MCS0	8.75	7.48
		147	6685		8.00	6.86
		179	6845		8.00	6.85
	802.11ax80-HE0	135	6625	MCS0	10.50	9.26
		151	6705		10.50	9.33
		167	6785		10.50	9.32
	802.11ax160-HE0	143	6665	MCS0	11.00	9.80
		175	6825		11.00	9.73

chainA						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	3.64
		209	6995		4.75	3.52
		233	7115		0.50	(0.62)
	802.11ax40-HE0	187	6885	MCS0	8.00	6.71
		227	7085		8.00	6.72
	802.11ax80-HE0	183	6865	MCS0	10.50	9.36
		199	6945		10.50	9.33
		215	7025		10.50	9.30
	802.11ax160-HE0	207	6985	MCS0	12.75	11.45

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.50	4.40
		45	6175		5.50	4.25
		93	6415		5.50	4.34
	802.11ax40-HE0	3	5965	MCS0	8.75	7.56
		43	6165		8.75	7.49
		91	6405		8.75	7.65
	802.11ax80-HE0	7	5985	MCS0	11.25	9.98
		39	6145		11.25	9.97
		87	6385		11.25	10.09
	802.11ax160-HE0	15	6025	MCS0	13.50	12.24
		47	6185		13.50	12.28
		79	6345		13.50	12.21

chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.50	4.25
		105	6475		5.50	4.31
		113	6515		5.50	4.28
	802.11ax40-HE0	99	6445	MCS0	8.75	7.48
		107	6485		8.75	7.50
	802.11ax80-HE0	103	6465	MCS0	11.25	10.11
		119	6545		11.25	10.06
	802.11ax160-HE0	111	6505	MCS0	13.50	12.29

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chainB						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.75	3.64
		149	6695		4.75	3.52
		181	6855		4.75	3.65
	802.11ax40-HE0	115	6525	MCS0	8.75	7.45
		147	6685		8.00	6.88
		179	6845		8.00	6.89
	802.11ax80-HE0	135	6625	MCS0	10.50	9.26
		151	6705		10.50	9.40
		167	6785		10.50	9.20
	802.11ax160-HE0	143	6665	MCS0	13.25	12.13
		175	6825		13.25	11.97

chainB						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.75	3.63
		209	6995		4.75	3.52
		233	7115		0.50	(0.77)
	802.11ax40-HE0	187	6885	MCS0	8.00	6.89
		227	7085		8.00	6.80
	802.11ax80-HE0	183	6865	MCS0	10.50	9.21
		199	6945		10.50	9.23
		215	7025		10.50	9.25
	802.11ax160-HE0	207	6985	MCS0	12.00	10.80

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6.3 Bluetooth

AWAN

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	10.50	9.02	7.00	5.08	7.00	5.02
	CH 39	2441		9.11		5.00		5.02
	CH 78	2480		9.31		5.08		5.04

Hong Bo

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	10.50	9.13	7.00	5.17	7.00	5.03
	CH 39	2441		9.04		5.16		5.11
	CH 78	2480		9.14		5.06		5.07

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6.4 BLE

AWAN

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	7	5.01
	CH 19	2440		5.15
	CH 39	2480		5.18
BLE_2M	CH 00	2402	7	5.08
	CH 19	2440		5.10
	CH 39	2480		5.04

Hong Bo

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	7	5.05
	CH 19	2440		5.06
	CH 39	2480		5.15
BLE_2M	CH 00	2402	7	5.09
	CH 19	2440		5.08
	CH 39	2480		5.14

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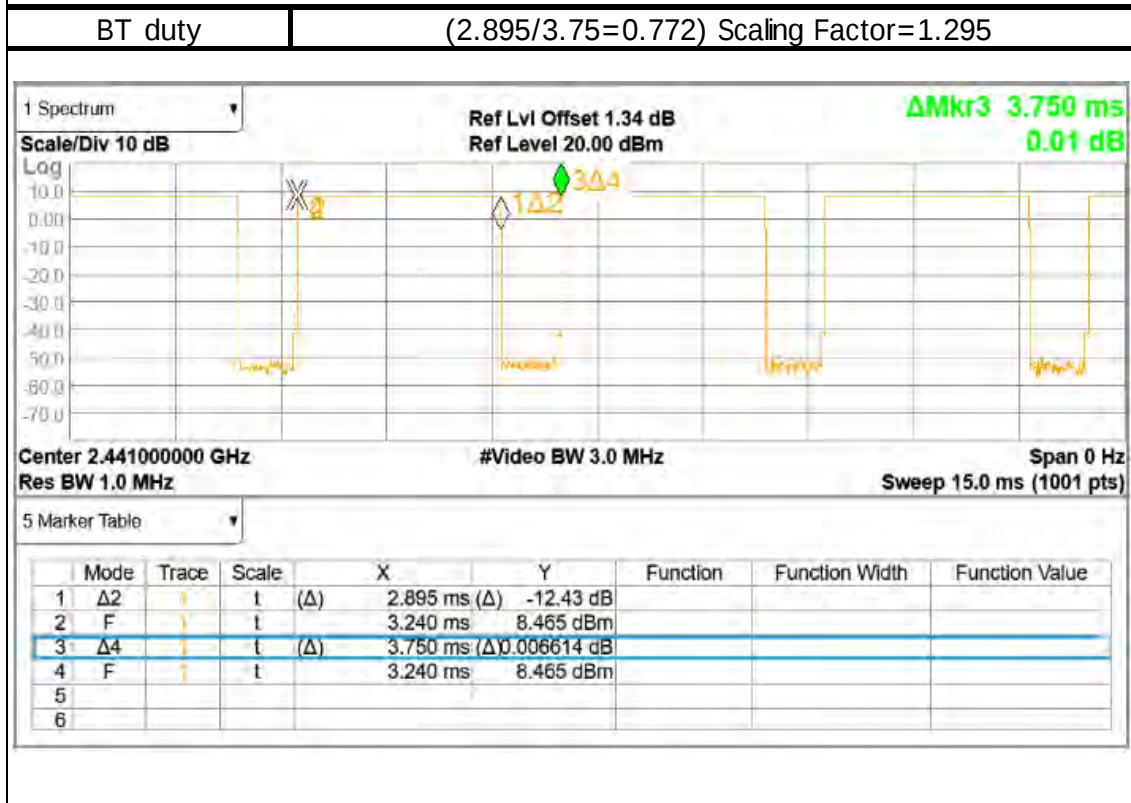
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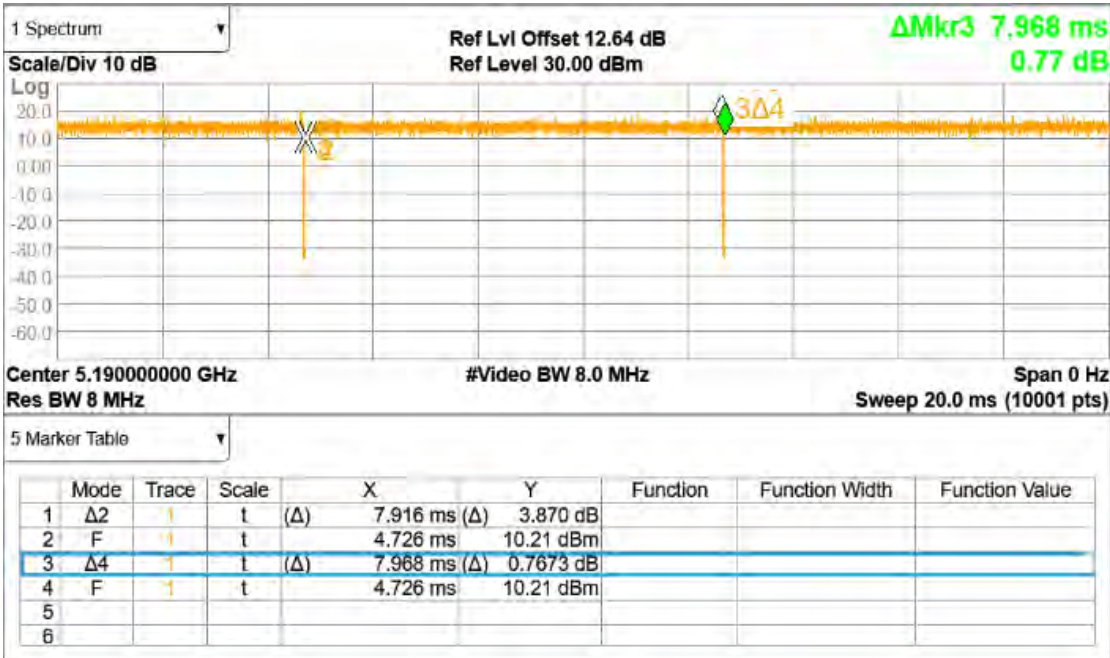
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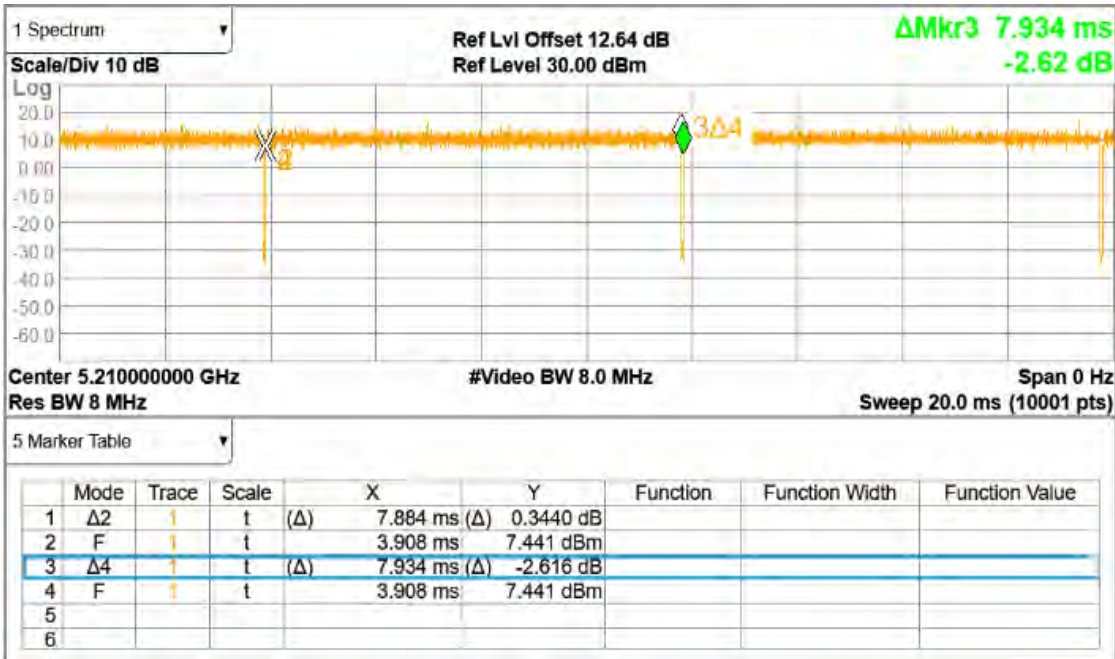
5.2G n(40M) duty

(7.916/7.968=0.993) Scaling Factor=1.007



5.2G ac(80M) duty

(7.884/7.934=0.994) Scaling Factor=1.006

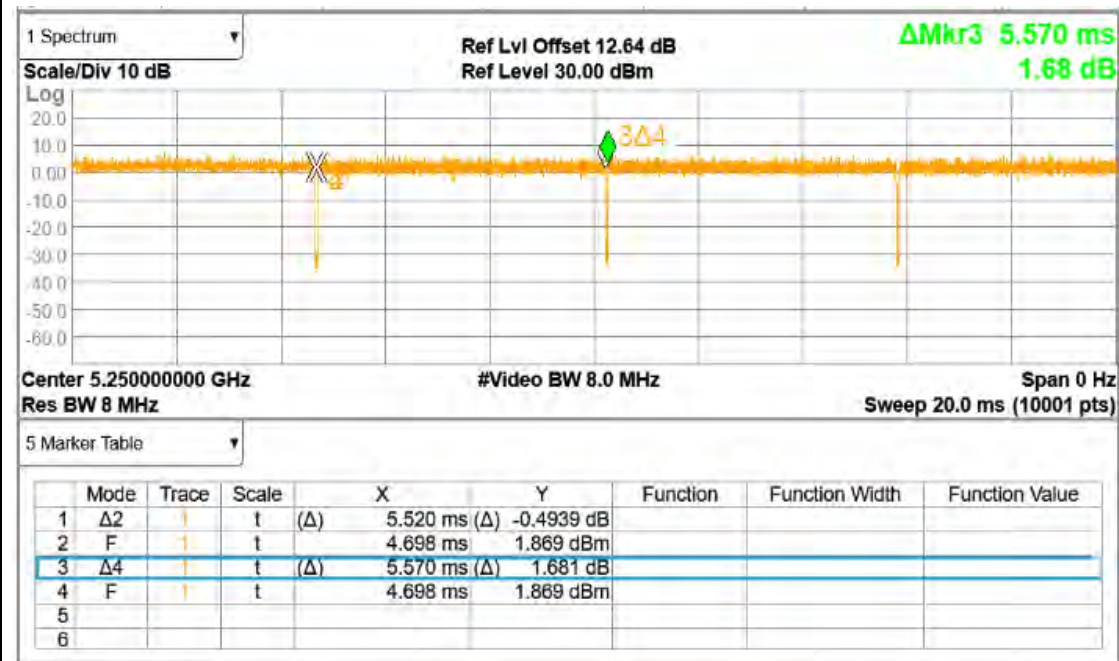


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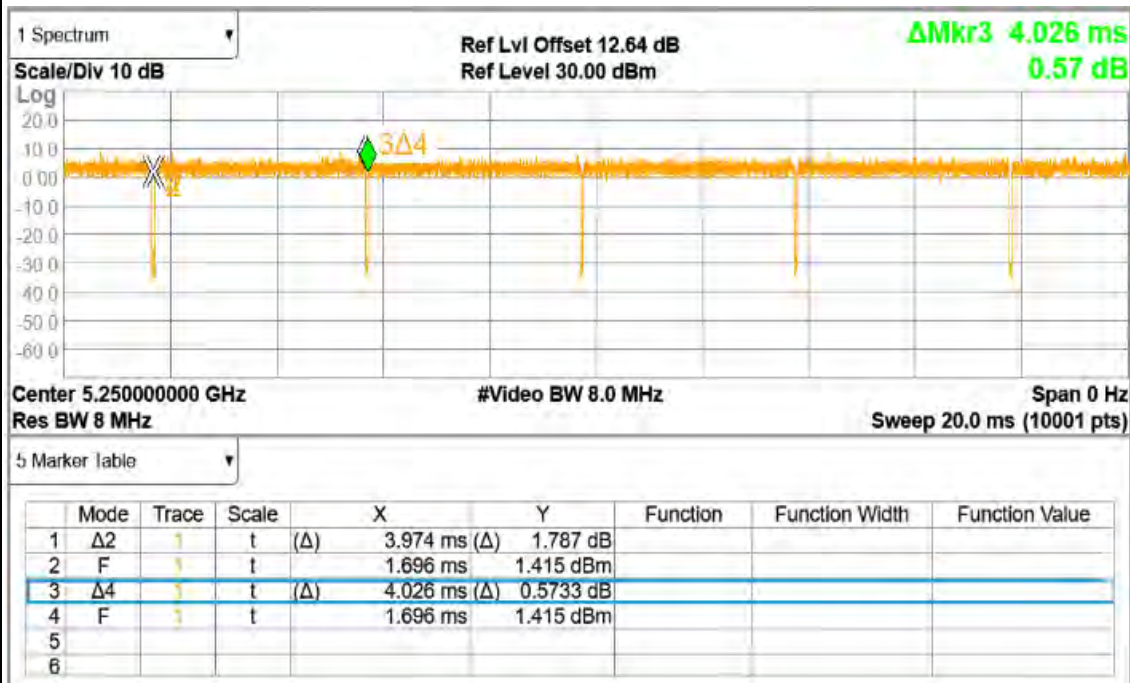
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5.2G ac(160M) duty (5.52/5.57=0.991) Scaling Factor=1.009



6E ax(160M) duty (3.974/4.026=0.987) Scaling Factor=1.013



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7 SUMMARY OF RESULTS

7.1 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.

7.2 Summary of SAR Results

AWAN

Mode 1

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	21.00	20.99	1.01	100.23%	0.004	0.004	001
WLAN 802.11b	Bottom Surface	0	6	2437	21.00	20.97	1.01	100.69%	0.003	0.003	-
WLAN 802.11b	Bottom Surface	0	11	2462	21.00	20.96	1.01	100.93%	0.002	0.002	-
Bluetooth(GFSK)	Bottom Surface	0	78	2480	10.50	9.31	1.30	131.52%	0.001	0.002	002
WLAN 802.11n(40M) 5.2G	Bottom Surface	0	46	5230	21.00	20.99	1.01	100.23%	0.015	0.015	003
WLAN 802.11n(40M) 5.3G	Bottom Surface	0	54	5270	21.00	20.98	1.01	100.46%	0.014	0.015	004
WLAN 802.11ax(160M) 5.6G	Bottom Surface	0	114	5570	21.00	20.98	1.01	100.46%	0.012	0.012	005
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	21.00	20.93	1.01	101.62%	0.020	0.020	006

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	21.00	20.93	1.01	101.62%	0.013	0.013	-
WLAN 802.11b	Bottom Surface	0	6	2437	21.00	20.91	1.01	102.09%	0.011	0.011	-
WLAN 802.11b	Bottom Surface	0	11	2462	21.00	20.95	1.01	101.16%	0.016	0.016	007
WLAN 802.11n(40M) 5.2G	Bottom Surface	0	46	5230	21.00	20.97	1.01	100.69%	0.018	0.018	008
WLAN 802.11n(40M) 5.3G	Bottom Surface	0	54	5270	21.00	20.95	1.01	101.16%	0.026	0.026	009
WLAN 802.11ax(160M) 5.6G	Bottom Surface	0	114	5570	21.00	20.82	1.01	104.23%	0.022	0.023	010
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	21.00	20.97	1.01	100.69%	0.021	0.021	011

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Mode 2

chainA

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Back Surface	0	1	2412	16.00	15.99	1.01	100.23%	0.927	0.938	012
WLAN 802.11b	Back Surface	0	6	2437	16.00	15.95	1.01	101.16%	0.871	0.890	-
WLAN 802.11b	Back Surface	0	11	2462	16.00	15.98	1.01	100.46%	0.884	0.897	-
WLAN 802.11b	Top Tilt	0	1	2412	16.00	15.99	1.01	100.23%	0.788	0.798	-
WLAN 802.11b	Top Edge	0	1	2412	16.00	15.99	1.01	100.23%	0.515	0.521	-
WLAN 802.11b	Bottom Edge	0	1	2412	16.00	15.99	1.01	100.23%	0.025	0.025	-
WLAN 802.11b	Left Edge	0	1	2412	16.00	15.99	1.01	100.23%	0.008	0.009	-
WLAN 802.11b	Right Edge	0	1	2412	16.00	15.99	1.01	100.23%	0.021	0.021	-
repeated	Back Surface	0	1	2412	16.00	15.99	1.01	100.23%	0.919	0.930	-
Bluetooth(GFSK)	Back Surface	0	78	2480	10.50	9.31	1.30	131.52%	0.187	0.319	013
Bluetooth(GFSK)	Top Tilt	0	78	2480	10.50	9.31	1.30	131.52%	0.152	0.259	-
Bluetooth(GFSK)	Top Edge	0	78	2480	10.50	9.31	1.30	131.52%	0.060	0.102	-
Bluetooth(GFSK)	Bottom Edge	0	78	2480	10.50	9.31	1.30	131.52%	0.008	0.013	-
Bluetooth(GFSK)	Left Edge	0	78	2480	10.50	9.31	1.30	131.52%	0.001	0.002	-
Bluetooth(GFSK)	Right Edge	0	78	2480	10.50	9.31	1.30	131.52%	0.004	0.007	-
WLAN 802.11ac(160M) 5.2G	Back Surface	0	50	5250	12.50	12.41	1.01	102.09%	0.190	0.196	-
WLAN 802.11ac(160M) 5.2G	Top Tilt	0	50	5250	12.50	12.41	1.01	102.09%	0.493	0.508	014
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	12.50	12.41	1.01	102.09%	0.333	0.343	-
WLAN 802.11ac(160M) 5.2G	Bottom Edge	0	50	5250	12.50	12.41	1.01	102.09%	0.019	0.019	-
WLAN 802.11ac(160M) 5.2G	Left Edge	0	50	5250	12.50	12.41	1.01	102.09%	0.019	0.019	-
WLAN 802.11ac(160M) 5.2G	Right Edge	0	50	5250	12.50	12.41	1.01	102.09%	0.107	0.110	-
WLAN 802.11ac(80M) 5.3G	Back Surface	0	58	5290	12.50	12.49	1.01	100.23%	0.181	0.183	-
WLAN 802.11ac(80M) 5.3G	Top Tilt	0	58	5290	12.50	12.49	1.01	100.23%	0.500	0.504	015
WLAN 802.11ac(80M) 5.3G	Top Edge	0	58	5290	12.50	12.49	1.01	100.23%	0.310	0.313	-
WLAN 802.11ac(80M) 5.3G	Bottom Edge	0	58	5290	12.50	12.49	1.01	100.23%	0.015	0.015	-
WLAN 802.11ac(80M) 5.3G	Left Edge	0	58	5290	12.50	12.49	1.01	100.23%	0.017	0.017	-
WLAN 802.11ac(80M) 5.3G	Right Edge	0	58	5290	12.50	12.49	1.01	100.23%	0.092	0.093	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	12.00	11.97	1.01	100.69%	0.210	0.213	-
WLAN 802.11ac(160M) 5.6G	Top Tilt	0	114	5570	12.00	11.97	1.01	100.69%	0.555	0.564	016
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	12.00	11.97	1.01	100.69%	0.471	0.479	-
WLAN 802.11ac(160M) 5.6G	Bottom Edge	0	114	5570	12.00	11.97	1.01	100.69%	0.018	0.018	-
WLAN 802.11ac(160M) 5.6G	Left Edge	0	114	5570	12.00	11.97	1.01	100.69%	0.020	0.020	-
WLAN 802.11ac(160M) 5.6G	Right Edge	0	114	5570	12.00	11.97	1.01	100.69%	0.101	0.103	-
WLAN 802.11ac(80M) 5.8G	Back Surface	0	155	5775	12.00	11.98	1.01	100.46%	0.623	0.630	-
WLAN 802.11ac(80M) 5.8G	Top Tilt	0	155	5775	12.00	11.98	1.01	100.46%	1.030	1.041	017
WLAN 802.11ac(80M) 5.8G	Top Edge	0	155	5775	12.00	11.98	1.01	100.46%	0.826	0.835	-
WLAN 802.11ac(80M) 5.8G	Bottom Edge	0	155	5775	12.00	11.98	1.01	100.46%	0.016	0.016	-
WLAN 802.11ac(80M) 5.8G	Left Edge	0	155	5775	12.00	11.98	1.01	100.46%	0.019	0.019	-
WLAN 802.11ac(80M) 5.8G	Right Edge	0	155	5775	12.00	11.98	1.01	100.46%	0.103	0.104	-
repeated	Top Tilt	0	155	5775	12.00	11.98	1.01	100.46%	0.995	1.006	-

chainB

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Back Surface	0	1	2412	18.00	17.93	1.01	101.62%	0.714	0.733	-
WLAN 802.11b	Back Surface	0	6	2437	18.00	17.99	1.01	100.23%	0.760	0.769	018
WLAN 802.11b	Back Surface	0	11	2462	18.00	17.91	1.01	102.09%	0.733	0.756	-
WLAN 802.11b	Top Tilt	0	6	2437	18.00	17.99	1.01	100.23%	0.620	0.628	-
WLAN 802.11b	Top Edge	0	6	2437	18.00	17.99	1.01	100.23%	0.399	0.404	-
WLAN 802.11b	Bottom Edge	0	6	2437	18.00	17.99	1.01	100.23%	0.009	0.009	-
WLAN 802.11b	Left Edge	0	6	2437	18.00	17.99	1.01	100.23%	0.089	0.090	-
WLAN 802.11b	Right Edge	0	6	2437	18.00	17.99	1.01	100.23%	0.006	0.006	-
WLAN 802.11ac(160M) 5.2G	Back Surface	0	50	5250	14.00	13.96	1.01	100.93%	0.418	0.426	-
WLAN 802.11ac(160M) 5.2G	Top Tilt	0	50	5250	14.00	13.96	1.01	100.93%	0.692	0.705	-
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	14.00	13.96	1.01	100.93%	0.858	0.874	019
WLAN 802.11ac(160M) 5.2G	Bottom Edge	0	50	5250	14.00	13.96	1.01	100.93%	0.026	0.026	-
WLAN 802.11ac(160M) 5.2G	Left Edge	0	50	5250	14.00	13.96	1.01	100.93%	0.033	0.034	-
WLAN 802.11ac(160M) 5.2G	Right Edge	0	50	5250	14.00	13.96	1.01	100.93%	0.007	0.008	-
repeated	Top Edge	0	50	5250	14.00	13.96	1.01	100.93%	0.847	0.863	-
WLAN 802.11ac(80M) 5.3G	Back Surface	0	58	5290	14.00	13.94	1.01	101.39%	0.399	0.407	-
WLAN 802.11ac(80M) 5.3G	Top Tilt	0	58	5290	14.00	13.94	1.01	101.39%	0.732	0.747	-
WLAN 802.11ac(80M) 5.3G	Top Edge	0	58	5290	14.00	13.94	1.01	101.39%	0.800	0.816	020
WLAN 802.11ac(80M) 5.3G	Bottom Edge	0	58	5290	14.00	13.94	1.01	101.39%	0.024	0.024	-
WLAN 802.11ac(80M) 5.3G	Left Edge	0	58	5290	14.00	13.94	1.01	101.39%	0.028	0.029	-
WLAN 802.11ac(80M) 5.3G	Right Edge	0	58	5290	14.00	13.94	1.01	101.39%	0.007	0.007	-
repeated	Top Edge	0	58	5290	14.00	13.94	1.01	101.39%	0.711	0.725	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	14.00	13.96	1.01	100.93%	0.295	0.300	-
WLAN 802.11ac(160M) 5.6G	Top Tilt	0	114	5570	14.00	13.96	1.01	100.93%	0.719	0.732	-
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	14.00	13.96	1.01	100.93%	0.819	0.834	021
WLAN 802.11ac(160M) 5.6G	Bottom Edge	0	114	5570	14.00	13.96	1.01	100.93%	0.021	0.021	-
WLAN 802.11ac(160M) 5.6G	Left Edge	0	114	5570	14.00	13.96	1.01	100.93%	0.025	0.025	-
WLAN 802.11ac(160M) 5.6G	Right Edge	0	114	5570	14.00	13.96	1.01	100.93%	0.007	0.007	-
repeated	Top Edge	0	114	5570	14.00	13.96	1.01	100.93%	0.811	0.826	-
WLAN 802.11ac(80M) 5.8G	Back Surface	0	155	5775	14.50	14.42	1.01	101.86%	0.411	0.421	-
WLAN 802.11ac(80M) 5.8G	Top Tilt	0	155	5775	14.50	14.42	1.01	101.86%	0.816	0.836	-
WLAN 802.11ac(80M) 5.8G	Top Edge	0	155	5775	14.50	14.42	1.01	101.86%	0.909	0.931	022
WLAN 802.11ac(80M) 5.8G	Bottom Edge	0	155	5775	14.50	14.42	1.01	101.86%	0.020	0.020	-
WLAN 802.11ac(80M) 5.8G	Left Edge	0	155	5775	14.50	14.42	1.01	101.86%	0.024	0.025	-
WLAN 802.11ac(80M) 5.8G	Right Edge	0	155	5775	14.50	14.42	1.01	101.86%	0.006	0.006	-
repeated	Top Edge	0	155	5775	14.50	14.42	1.01	101.86%	0.901	0.923	-

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

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Mode 1

chainA

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	14.00	13.99	1.01	100.23%	0.011	0.011	0.039	0.040	023
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	79	6345	14.00	13.98	1.01	100.46%	0.046	0.047	0.347	0.353	024
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	14.00	13.98	1.01	100.46%	0.043	0.044	0.278	0.283	025
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	13.50	13.24	1.01	106.17%	0.013	0.014	0.025	0.027	026
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6985	13.50	13.24	1.01	106.17%	0.045	0.048	0.279	0.299	027

chainB

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	Power Setting
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	14.00	13.99	1.01	100.23%	0.020	0.020	0.143	0.145	028
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	79	6345	14.00	13.94	1.01	101.39%	0.024	0.025	0.196	0.201	029
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	14.00	13.95	1.01	101.16%	0.006	0.006	0.024	0.025	030
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	13.50	13.20	1.01	107.15%	0.008	0.009	0.057	0.062	031
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6985	13.50	13.21	1.01	106.91%	0.030	0.032	0.222	0.240	032

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Mode 2

chainA

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802 11ax(160M)	Back Surface	0	15	6025	12.00	11.99	1.01	100.23%	0.216	0.219	1.640	1.664	-
U-NII-5 6.2GHz802 11ax(160M)	Back Surface	0	79	6345	12.00	11.95	1.01	101.16%	0.394	0.403	2.880	2.948	-
U-NII-5 6.2GHz802 11ax(160M)	Top Tilt	0	15	6025	12.00	11.99	1.01	100.23%	0.734	0.745	4.610	4.676	033
U-NII-5 6.2GHz802 11ax(160M)	Top Tilt	0	79	6345	12.00	11.95	1.01	101.16%	0.899	0.920	5.560	5.692	034
U-NII-5 6.2GHz802 11ax(160M)	Top Edge	0	15	6025	12.00	11.99	1.01	100.23%	0.542	0.550	3.780	3.834	-
U-NII-5 6.2GHz802 11ax(160M)	Top Edge	0	79	6345	12.00	11.95	1.01	101.16%	0.610	0.624	3.880	3.972	-
U-NII-5 6.2GHz802 11ax(160M)	Bottom Edge	0	15	6025	12.00	11.99	1.01	100.23%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Bottom Edge	0	79	6345	12.00	11.95	1.01	101.16%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Left Edge	0	15	6025	12.00	11.99	1.01	100.23%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Left Edge	0	79	6345	12.00	11.95	1.01	101.16%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Right Edge	0	15	6025	12.00	11.99	1.01	100.23%	0.052	0.053	0.330	0.335	-
U-NII-5 6.2GHz802 11ax(160M)	Right Edge	0	79	6345	12.00	11.95	1.01	101.16%	0.059	0.060	0.370	0.379	-
repeated	Top Tilt	0	79	6345	12.00	11.95	1.01	101.16%	0.875	0.896	5.480	5.610	-
U-NII-6 6.5GHz802 11ax(160M)	Back Surface	0	111	6505	11.50	11.44	1.01	101.39%	0.403	0.414	3.040	3.119	-
U-NII-6 6.5GHz802 11ax(160M)	Top Tilt	0	111	6505	11.50	11.44	1.01	101.39%	0.805	0.826	5.040	5.171	035
U-NII-6 6.5GHz802 11ax(160M)	Top Edge	0	111	6505	11.50	11.44	1.01	101.39%	0.646	0.663	4.230	4.340	-
U-NII-6 6.5GHz802 11ax(160M)	Bottom Edge	0	111	6505	11.50	11.44	1.01	101.39%	0.001	0.001	0.010	0.010	-
U-NII-6 6.5GHz802 11ax(160M)	Left Edge	0	111	6505	11.50	11.44	1.01	101.39%	0.001	0.001	0.010	0.010	-
U-NII-6 6.5GHz802 11ax(160M)	Right Edge	0	111	6505	11.50	11.44	1.01	101.39%	0.066	0.068	0.420	0.431	-
repeated	Top Tilt	0	111	6505	11.50	11.44	1.01	101.39%	0.788	0.809	4.920	5.048	-
U-NII-7 6.7GHz802 11ax(160M)	Back Surface	0	143	6665	11.00	10.98	1.01	100.46%	0.575	0.585	3.820	3.884	-
U-NII-7 6.7GHz802 11ax(160M)	Top Tilt	0	143	6665	11.00	10.98	1.01	100.46%	1.010	1.027	6.280	6.385	036
U-NII-7 6.7GHz802 11ax(160M)	Top Tilt	0	175	6825	11.00	10.91	1.01	102.09%	0.892	0.922	5.620	5.807	-
U-NII-7 6.7GHz802 11ax(160M)	Top Edge	0	143	6665	11.00	10.98	1.01	100.46%	0.810	0.824	5.350	5.439	-
U-NII-7 6.7GHz802 11ax(160M)	Top Edge	0	175	6825	11.00	10.91	1.01	102.09%	0.717	0.741	4.640	4.794	-
U-NII-7 6.7GHz802 11ax(160M)	Bottom Edge	0	143	6665	11.00	10.98	1.01	100.46%	0.001	0.001	0.010	0.010	-
U-NII-7 6.7GHz802 11ax(160M)	Left Edge	0	143	6665	11.00	10.98	1.01	100.46%	0.001	0.001	0.010	0.010	-
U-NII-7 6.7GHz802 11ax(160M)	Right Edge	0	143	6665	11.00	10.98	1.01	100.46%	0.057	0.058	0.400	0.407	-
repeated	Top Tilt	0	143	6665	11.00	10.98	1.01	100.46%	0.997	1.014	6.170	6.273	-
U-NII-8 7.0GHz 802 11ax (160M)	Back Surface	0	207	6985	12.75	12.74	1.01	100.23%	0.641	0.649	4.030	4.080	-
U-NII-8 7.0GHz 802 11ax (160M)	Top Tilt	0	207	6985	12.75	12.74	1.01	100.23%	1.060	1.073	6.600	6.681	037
U-NII-8 7.0GHz 802 11ax (160M)	Top Edge	0	207	6985	12.75	12.74	1.01	100.23%	0.923	0.934	6.060	6.135	-
U-NII-8 7.0GHz 802 11ax (160M)	Bottom Edge	0	207	6985	12.75	12.74	1.01	100.23%	0.001	0.001	0.010	0.010	-
U-NII-8 7.0GHz 802 11ax (160M)	Left Edge	0	207	6985	12.75	12.74	1.01	100.23%	0.001	0.001	0.010	0.010	-
U-NII-8 7.0GHz 802 11ax (160M)	Right Edge	0	207	6985	12.75	12.74	1.01	100.23%	0.061	0.062	0.410	0.415	-
repeated	Top Tilt	0	207	6985	12.75	12.74	1.01	100.23%	1.030	1.043	6.510	6.590	-

Main Antenna chainB

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802 11ax(160M)	Back Surface	0	15	6025	13.50	13.44	1.01	101.39%	0.178	0.183	1.410	1.447	-
U-NII-5 6.2GHz802 11ax(160M)	Back Surface	0	47	6185	13.50	13.48	1.01	100.46%	0.204	0.207	1.580	1.606	-
U-NII-5 6.2GHz802 11ax(160M)	Top Tilt	0	15	6025	13.50	13.44	1.01	101.39%	0.569	0.584	4.240	4.351	038
U-NII-5 6.2GHz802 11ax(160M)	Top Tilt	0	47	6185	13.50	13.48	1.01	100.46%	0.630	0.641	4.730	4.809	-
U-NII-5 6.2GHz802 11ax(160M)	Top Edge	0	15	6025	13.50	13.44	1.01	101.39%	0.563	0.578	4.230	4.340	-
U-NII-5 6.2GHz802 11ax(160M)	Top Edge	0	47	6185	13.50	13.48	1.01	100.46%	0.648	0.659	4.760	4.839	039
U-NII-5 6.2GHz802 11ax(160M)	Bottom Edge	0	15	6025	13.50	13.44	1.01	101.39%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Bottom Edge	0	47	6185	13.50	13.48	1.01	100.46%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Left Edge	0	15	6025	13.50	13.44	1.01	101.39%	0.018	0.018	0.130	0.133	-
U-NII-5 6.2GHz802 11ax(160M)	Left Edge	0	47	6185	13.50	13.48	1.01	100.46%	0.021	0.021	0.140	0.142	-
U-NII-5 6.2GHz802 11ax(160M)	Right Edge	0	15	6025	13.50	13.44	1.01	101.39%	0.006	0.006	0.040	0.041	-
U-NII-5 6.2GHz802 11ax(160M)	Right Edge	0	47	6185	13.50	13.48	1.01	100.46%	0.007	0.007	0.040	0.041	-
U-NII-6 6.5GHz802 11ax(160M)	Back Surface	0	111	6505	13.50	13.49	1.01	100.23%	0.163	0.165	1.290	1.308	-
U-NII-6 6.5GHz802 11ax(160M)	Top Tilt	0	111	6505	13.50	13.49	1.01	100.23%	0.631	0.640	4.630	4.696	-
U-NII-6 6.5GHz802 11ax(160M)	Top Edge	0	111	6505	13.50	13.49	1.01	100.23%	0.693	0.703	5.040	5.112	040
U-NII-6 6.5GHz802 11ax(160M)	Bottom Edge	0	111	6505	13.50	13.49	1.01	100.23%	0.001	0.001	0.010	0.010	-
U-NII-6 6.5GHz802 11ax(160M)	Left Edge	0	111	6505	13.50	13.49	1.01	100.23%	0.024	0.024	0.150	0.152	-
U-NII-6 6.5GHz802 11ax(160M)	Right Edge	0	111	6505	13.50	13.49	1.01	100.23%	0.007	0.007	0.040	0.041	-
U-NII-7 6.7GHz802 11ax(160M)	Back Surface	0	143	6665	13.25	13.18	1.01	101.62%	0.303	0.312	2.200	2.263	-
U-NII-7 6.7GHz802 11ax(160M)	Top Tilt	0	143	6665	13.25	13.18	1.01	101.62%	0.655	0.674	4.490	4.618	-
U-NII-7 6.7GHz802 11ax(160M)	Top Edge	0	143	6665	13.25	13.18	1.01	101.62%	0.731	0.752	5.080	5.224	041
U-NII-7 6.7GHz802 11ax(160M)	Bottom Edge	0	143	6665	13.25	13.18	1.01	101.62%	0.001	0.001	0.010	0.010	-
U-NII-7 6.7GHz802 11ax(160M)	Left Edge	0	143	6665	13.25	13.18	1.01	101.62%	0.027	0.028	0.160	0.165	-
U-NII-7 6.7GHz802 11ax(160M)	Right Edge	0	143	6665	13.25	13.18	1.01	101.62%	0.006	0.006	0.040	0.041	-
U-NII-8 7.0GHz 802 11ax (160M)	Back Surface	0	207	6985	12.00	11.94	1.01	101.39%	0.396	0.406	2.760	2.826	-
U-NII-8 7.0GHz 802 11ax (160M)	Top Tilt	0	207	6985	12.00	11.94	1.01	101.39%	0.818	0.838	5.780	5.919	-
U-NII-8 7.0GHz 802 11ax (160M)	Top Edge	0	207	6985	12.00	11.94	1.01	101.39%	0.824	0.844	5.360	5.489	042
U-NII-8 7.0GHz 802 11ax (160M)	Bottom Edge	0	207	6985	12.00	11.94	1.01	101.39%	0.001	0.001	0.010	0.010	-
U-NII-8 7.0GHz 802 11ax (160M)	Left Edge	0	207	6985	12.00	11.94	1.01	101.39%	0.031	0.032	0.170	0.174	-
U-NII-8 7.0GHz 802 11ax (160M)	Right Edge	0	207	6985	12.00	11.94	1.01	101.39%	0.008	0.008	0.050	0.051	-
repeated	Top Edge	0	207	6985	12.00	11.94	1.01	101.39%	0.796	0.815	5.200	5.325	-

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

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

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Hong Bo Mode 1

chainA

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	21.00	20.84	1.01	103.75%	0.023	0.024	043
WLAN 802.11b	Bottom Surface	0	6	2437	21.00	20.81	1.01	104.47%	0.019	0.020	-
WLAN 802.11b	Bottom Surface	0	11	2462	21.00	20.81	1.01	104.47%	0.015	0.016	-
Bluetooth(GFSK)	Bottom Surface	0	78	2480	10.50	9.14	1.30	136.77%	0.003	0.006	044
WLAN 802.11n(40M) 5.2G	Bottom Surface	0	46	5230	21.00	20.94	1.01	101.39%	0.082	0.084	-
WLAN 802.11n(40M) 5.3G	Bottom Surface	0	54	5270	21.00	20.88	1.01	102.80%	0.030	0.031	045
WLAN 802.11ax(160M) 5.6G	Bottom Surface	0	114	5570	21.00	20.99	1.01	100.23%	0.074	0.075	046
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	21.00	20.80	1.01	104.71%	0.028	0.029	047

chainB

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	21.00	20.91	1.01	102.09%	0.005	0.006	-
WLAN 802.11b	Bottom Surface	0	6	2437	21.00	20.87	1.01	103.04%	0.007	0.007	-
WLAN 802.11b	Bottom Surface	0	11	2462	21.00	20.96	1.01	100.93%	0.009	0.009	048
WLAN 802.11n(40M) 5.2G	Bottom Surface	0	46	5230	21.00	20.83	1.01	103.99%	0.043	0.045	049
WLAN 802.11n(40M) 5.3G	Bottom Surface	0	54	5270	21.00	20.91	1.01	102.09%	0.062	0.064	050
WLAN 802.11ax(160M) 5.6G	Bottom Surface	0	114	5570	21.00	20.89	1.01	102.57%	0.014	0.015	051
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	21.00	20.98	1.01	100.46%	0.012	0.012	052

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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Mode 2

chainA

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Back Surface	0	1	2412	16.00	15.90	1.01	102.33%	1.050	1.085	053
WLAN 802.11b	Back Surface	0	6	2437	16.00	15.85	1.01	103.51%	0.975	1.019	-
WLAN 802.11b	Back Surface	0	11	2462	16.00	15.72	1.01	106.66%	0.987	1.063	-
WLAN 802.11b	Top Tilt	0	1	2412	16.00	15.90	1.01	102.33%	0.766	0.792	-
WLAN 802.11b	Top Edge	0	1	2412	16.00	15.90	1.01	102.33%	0.518	0.535	-
WLAN 802.11b	Bottom Edge	0	1	2412	16.00	15.90	1.01	102.33%	0.032	0.033	-
WLAN 802.11b	Left Edge	0	1	2412	16.00	15.90	1.01	102.33%	0.010	0.010	-
WLAN 802.11b	Right Edge	0	1	2412	16.00	15.90	1.01	102.33%	0.025	0.026	-
repeated	Back Surface	0	1	2412	16.00	15.90	1.01	102.33%	1.010	1.044	-
Bluetooth(GFSK)	Back Surface	0	78	2480	10.50	9.14	1.30	136.77%	0.178	0.315	054
Bluetooth(GFSK)	Top Tilt	0	78	2480	10.50	9.14	1.30	136.77%	0.143	0.253	-
Bluetooth(GFSK)	Top Edge	0	78	2480	10.50	9.14	1.30	136.77%	0.076	0.135	-
Bluetooth(GFSK)	Bottom Edge	0	78	2480	10.50	9.14	1.30	136.77%	0.010	0.018	-
Bluetooth(GFSK)	Left Edge	0	78	2480	10.50	9.14	1.30	136.77%	0.002	0.004	-
Bluetooth(GFSK)	Right Edge	0	78	2480	10.50	9.14	1.30	136.77%	0.005	0.009	-
WLAN 802.11ac(160M) 5.2G	Back Surface	0	50	5250	12.50	12.40	1.01	102.33%	0.281	0.290	-
WLAN 802.11ac(160M) 5.2G	Top Tilt	0	50	5250	12.50	12.40	1.01	102.33%	0.644	0.665	055
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	12.50	12.40	1.01	102.33%	0.496	0.512	-
WLAN 802.11ac(160M) 5.2G	Bottom Edge	0	50	5250	12.50	12.40	1.01	102.33%	0.023	0.024	-
WLAN 802.11ac(160M) 5.2G	Left Edge	0	50	5250	12.50	12.40	1.01	102.33%	0.019	0.020	-
WLAN 802.11ac(160M) 5.2G	Right Edge	0	50	5250	12.50	12.40	1.01	102.33%	0.124	0.128	-
WLAN 802.11ac(80M) 5.3G	Back Surface	0	58	5290	12.50	12.48	1.01	100.46%	0.274	0.277	-
WLAN 802.11ac(80M) 5.3G	Top Tilt	0	58	5290	12.50	12.48	1.01	100.46%	0.674	0.681	056
WLAN 802.11ac(80M) 5.3G	Top Edge	0	58	5290	12.50	12.48	1.01	100.46%	0.508	0.513	-
WLAN 802.11ac(80M) 5.3G	Bottom Edge	0	58	5290	12.50	12.48	1.01	100.46%	0.031	0.031	-
WLAN 802.11ac(80M) 5.3G	Left Edge	0	58	5290	12.50	12.48	1.01	100.46%	0.030	0.030	-
WLAN 802.11ac(80M) 5.3G	Right Edge	0	58	5290	12.50	12.48	1.01	100.46%	0.131	0.132	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	12.00	11.97	1.01	100.69%	0.321	0.326	-
WLAN 802.11ac(160M) 5.6G	Top Tilt	0	114	5570	12.00	11.97	1.01	100.69%	0.825	0.838	057
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	12.00	11.97	1.01	100.69%	0.624	0.634	-
WLAN 802.11ac(160M) 5.6G	Bottom Edge	0	114	5570	12.00	11.97	1.01	100.69%	0.041	0.042	-
WLAN 802.11ac(160M) 5.6G	Left Edge	0	114	5570	12.00	11.97	1.01	100.69%	0.040	0.041	-
WLAN 802.11ac(160M) 5.6G	Right Edge	0	114	5570	12.00	11.97	1.01	100.69%	0.148	0.150	-
repeated	Top Tilt	0	114	5570	12.00	11.97	1.01	100.69%	0.812	0.825	-
WLAN 802.11ac(80M) 5.8G	Back Surface	0	155	5775	12.00	11.71	1.01	106.91%	0.383	0.412	-
WLAN 802.11ac(80M) 5.8G	Top Tilt	0	155	5775	12.00	11.71	1.01	106.91%	0.671	0.722	058
WLAN 802.11ac(80M) 5.8G	Top Edge	0	155	5775	12.00	11.71	1.01	106.91%	0.591	0.636	-
WLAN 802.11ac(80M) 5.8G	Bottom Edge	0	155	5775	12.00	11.71	1.01	106.91%	0.014	0.015	-
WLAN 802.11ac(80M) 5.8G	Left Edge	0	155	5775	12.00	11.71	1.01	106.91%	0.017	0.018	-
WLAN 802.11ac(80M) 5.8G	Right Edge	0	155	5775	12.00	11.71	1.01	106.91%	0.084	0.090	-

chainB

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Back Surface	0	6	2437	18.00	17.88	1.01	102.80%	0.711	0.738	059
WLAN 802.11b	Back Surface	0	10	2457	18.00	17.84	1.01	103.75%	0.673	0.705	-
WLAN 802.11b	Back Surface	0	11	2462	18.00	17.79	1.01	104.95%	0.588	0.623	-
WLAN 802.11b	Top Tilt	0	6	2437	18.00	17.88	1.01	102.80%	0.671	0.697	-
WLAN 802.11b	Top Edge	0	6	2437	18.00	17.88	1.01	102.80%	0.408	0.424	-
WLAN 802.11b	Bottom Edge	0	6	2437	18.00	17.88	1.01	102.80%	0.011	0.011	-
WLAN 802.11b	Left Edge	0	6	2437	18.00	17.88	1.01	102.80%	0.093	0.097	-
WLAN 802.11b	Right Edge	0	6	2437	18.00	17.88	1.01	102.80%	0.007	0.007	-
WLAN 802.11ac(160M) 5.2G	Back Surface	0	50	5250	14.00	13.86	1.01	103.28%	0.418	0.436	-
WLAN 802.11ac(160M) 5.2G	Top Tilt	0	50	5250	14.00	13.86	1.01	103.28%	0.821	0.856	-
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	14.00	13.86	1.01	103.28%	0.840	0.875	060
WLAN 802.11ac(160M) 5.2G	Bottom Edge	0	50	5250	14.00	13.86	1.01	103.28%	0.022	0.023	-
WLAN 802.11ac(160M) 5.2G	Left Edge	0	50	5250	14.00	13.86	1.01	103.28%	0.037	0.039	-
WLAN 802.11ac(160M) 5.2G	Right Edge	0	50	5250	14.00	13.86	1.01	103.28%	0.008	0.008	-
repeated	Top Edge	0	50	5250	14.00	13.86	1.01	103.28%	0.831	0.866	-
WLAN 802.11ac(80M) 5.3G	Back Surface	0	58	5290	14.00	13.72	1.01	106.66%	0.388	0.416	-
WLAN 802.11ac(80M) 5.3G	Top Tilt	0	58	5290	14.00	13.72	1.01	106.66%	0.687	0.737	-
WLAN 802.11ac(80M) 5.3G	Top Edge	0	58	5290	14.00	13.72	1.01	106.66%	0.822	0.882	061
WLAN 802.11ac(80M) 5.3G	Bottom Edge	0	58	5290	14.00	13.72	1.01	106.66%	0.024	0.026	-
WLAN 802.11ac(80M) 5.3G	Left Edge	0	58	5290	14.00	13.72	1.01	106.66%	0.036	0.039	-
WLAN 802.11ac(80M) 5.3G	Right Edge	0	58	5290	14.00	13.72	1.01	106.66%	0.006	0.007	-
repeated	Top Edge	0	58	5290	14.00	13.72	1.01	106.66%	0.813	0.872	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	14.00	13.94	1.01	101.39%	0.506	0.518	-
WLAN 802.11ac(160M) 5.6G	Top Tilt	0	114	5570	14.00	13.94	1.01	101.39%	0.684	0.700	-
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	14.00	13.94	1.01	101.39%	0.690	0.706	062
WLAN 802.11ac(160M) 5.6G	Bottom Edge	0	114	5570	14.00	13.94	1.01	101.39%	0.021	0.021	-
WLAN 802.11ac(160M) 5.6G	Left Edge	0	114	5570	14.00	13.94	1.01	101.39%	0.038	0.039	-
WLAN 802.11ac(160M) 5.6G	Right Edge	0	114	5570	14.00	13.94	1.01	101.39%	0.007	0.008	-
WLAN 802.11ac(80M) 5.8G	Back Surface	0	155	5775	14.50	14.35	1.01	103.51%	0.465	0.484	-
WLAN 802.11ac(80M) 5.8G	Top Tilt	0	155	5775	14.50	14.35	1.01	103.51%	0.786	0.819	-
WLAN 802.11ac(80M) 5.8G	Top Edge	0	155	5775	14.50	14.35	1.01	103.51%	0.928	0.966	063
WLAN 802.11ac(80M) 5.8G	Bottom Edge	0	155	5775	14.50	14.35	1.01	103.51%	0.021	0.022	-
WLAN 802.11ac(80M) 5.8G	Left Edge	0	155	5775	14.50	14.35	1.01	103.51%	0.037	0.039	-
WLAN 802.11ac(80M) 5.8G	Right Edge	0	155	5775	14.50	14.35	1.01	103.51%	0.007	0.007	-
repeated	Top Edge	0	155	5775	14.50	14.35	1.01	103.51%	0.898	0.935	-

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

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WIFI 6E

Mode 1

chainA

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	14.00	13.98	1.01	100.46%	0.023	0.023	0.095	0.097	064
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	14.00	13.95	1.01	101.16%	0.018	0.018	0.065	0.067	065
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	14.00	13.84	1.01	103.75%	0.061	0.064	0.407	0.427	066
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	13.50	13.50	1.01	100.00%	0.013	0.013	0.025	0.025	067
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6985	13.50	13.43	1.01	101.62%	0.051	0.052	0.293	0.301	068

chainB

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m ² (4cm ²)	Estimated Reported APD W/m ² (4cm ²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	14.00	13.99	1.01	100.23%	0.054	0.055	0.462	0.469	069
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	79	6345	14.00	13.94	1.01	101.39%	0.040	0.041	0.347	0.356	070
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	14.00	13.95	1.01	101.16%	0.040	0.041	0.330	0.338	071
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	13.50	13.20	1.01	107.15%	0.036	0.039	0.299	0.324	072
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6985	13.50	13.38	1.01	102.80%	0.029	0.030	0.218	0.226	073

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Mode 2

chainA													
Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m² (4cm²)	Estimated Reported APD W/m² (4cm²)	ID
									Measured	Reported			
U-NII-5 6.2GHz802 11ax(160M)	Back Surface	0	47	6185	12.00	11.94	1.01	101.39%	0.272	0.279	3.120	3.201	-
U-NII-5 6.2GHz802 11ax(160M)	Back Surface	0	79	6345	12.00	11.95	1.01	101.16%	0.392	0.401	4.390	4.494	-
U-NII-5 6.2GHz802 11ax(160M)	Top Tilt	0	47	6185	12.00	11.94	1.01	101.39%	0.721	0.740	4.550	4.669	074
U-NII-5 6.2GHz802 11ax(160M)	Top Tilt	0	79	6345	12.00	11.95	1.01	101.16%	0.799	0.818	4.890	5.006	075
U-NII-5 6.2GHz802 11ax(160M)	Top Edge	0	47	6185	12.00	11.94	1.01	101.39%	0.642	0.659	4.370	4.484	-
U-NII-5 6.2GHz802 11ax(160M)	Top Edge	0	79	6345	12.00	11.95	1.01	101.16%	0.669	0.685	4.480	4.586	-
U-NII-5 6.2GHz802 11ax(160M)	Bottom Edge	0	47	6185	12.00	11.94	1.01	101.39%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Bottom Edge	0	79	6345	12.00	11.95	1.01	101.16%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Left Edge	0	47	6185	12.00	11.94	1.01	101.39%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Left Edge	0	79	6345	12.00	11.95	1.01	101.16%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Right Edge	0	47	6185	12.00	11.94	1.01	101.39%	0.051	0.052	0.320	0.328	-
U-NII-5 6.2GHz802 11ax(160M)	Right Edge	0	79	6345	12.00	11.95	1.01	101.16%	0.053	0.054	0.330	0.338	-
repeated	Top Tilt	0	79	6345	12.00	11.95	1.01	101.16%	0.774	0.792	4.770	4.883	-
U-NII-6 6.5GHz802 11ax(160M)	Back Surface	0	111	6505	11.50	11.47	1.01	100.69%	0.459	0.468	5.140	5.238	-
U-NII-6 6.5GHz802 11ax(160M)	Top Tilt	0	111	6505	11.50	11.47	1.01	100.69%	0.861	0.877	5.400	5.503	076
U-NII-6 6.5GHz802 11ax(160M)	Top Edge	0	111	6505	11.50	11.47	1.01	100.69%	0.628	0.640	5.800	5.910	-
U-NII-6 6.5GHz802 11ax(160M)	Bottom Edge	0	111	6505	11.50	11.47	1.01	100.69%	0.002	0.002	0.010	0.010	-
U-NII-6 6.5GHz802 11ax(160M)	Left Edge	0	111	6505	11.50	11.47	1.01	100.69%	0.001	0.001	0.010	0.010	-
U-NII-6 6.5GHz802 11ax(160M)	Right Edge	0	111	6505	11.50	11.47	1.01	100.69%	0.055	0.056	0.350	0.357	-
repeated	Top Tilt	0	111	6505	11.50	11.47	1.01	100.69%	0.845	0.861	5.280	5.380	-
U-NII-7 6.7GHz802 11ax(160M)	Back Surface	0	143	6665	11.00	10.85	1.01	103.51%	0.563	0.590	3.870	4.054	-
U-NII-7 6.7GHz802 11ax(160M)	Top Tilt	0	143	6665	11.00	10.85	1.01	103.51%	0.761	0.797	4.540	4.756	077
U-NII-7 6.7GHz802 11ax(160M)	Top Edge	0	143	6665	11.00	10.85	1.01	103.51%	0.673	0.705	4.480	4.693	-
U-NII-7 6.7GHz802 11ax(160M)	Bottom Edge	0	143	6665	11.00	10.85	1.01	103.51%	0.001	0.001	0.010	0.010	-
U-NII-7 6.7GHz802 11ax(160M)	Left Edge	0	143	6665	11.00	10.85	1.01	103.51%	0.001	0.001	0.010	0.010	-
U-NII-7 6.7GHz802 11ax(160M)	Right Edge	0	143	6665	11.00	10.85	1.01	103.51%	0.044	0.046	0.280	0.293	-
U-NII-8 7.0GHz 802 11ax (160M)	Back Surface	0	207	6985	12.75	12.57	1.01	104.23%	0.504	0.531	3.210	3.379	-
U-NII-8 7.0GHz 802 11ax (160M)	Top Tilt	0	207	6985	12.75	12.57	1.01	104.23%	0.819	0.862	5.160	5.432	-
U-NII-8 7.0GHz 802 11ax (160M)	Top Edge	0	207	6985	12.75	12.57	1.01	104.23%	0.902	0.950	5.780	6.085	078
U-NII-8 7.0GHz 802 11ax (160M)	Bottom Edge	0	207	6985	12.75	12.57	1.01	104.23%	0.001	0.001	0.010	0.011	-
U-NII-8 7.0GHz 802 11ax (160M)	Left Edge	0	207	6985	12.75	12.57	1.01	104.23%	0.001	0.001	0.010	0.011	-
U-NII-8 7.0GHz 802 11ax (160M)	Right Edge	0	207	6985	12.75	12.57	1.01	104.23%	0.053	0.056	0.320	0.337	-
repeated	Top Edge	0	207	6985	12.75	12.57	1.01	104.23%	0.851	0.896	5.570	5.864	-
chainB													
Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m² (4cm²)	Estimated Reported APD W/m² (4cm²)	ID
U-NII-5 6.2GHz802 11ax(160M)	Back Surface	0	15	6025	13.50	13.49	1.01	100.23%	0.208	0.211	2.480	2.516	-
U-NII-5 6.2GHz802 11ax(160M)	Back Surface	0	47	6185	13.50	13.47	1.01	100.69%	0.238	0.243	2.590	2.639	-
U-NII-5 6.2GHz802 11ax(160M)	Top Tilt	0	15	6025	13.50	13.49	1.01	100.23%	0.621	0.630	4.510	4.575	079
U-NII-5 6.2GHz802 11ax(160M)	Top Tilt	0	47	6185	13.50	13.47	1.01	100.69%	0.601	0.612	4.320	4.402	080
U-NII-5 6.2GHz802 11ax(160M)	Top Edge	0	15	6025	13.50	13.49	1.01	100.23%	0.565	0.573	4.170	4.230	-
U-NII-5 6.2GHz802 11ax(160M)	Top Edge	0	47	6185	13.50	13.47	1.01	100.69%	0.585	0.596	4.230	4.310	-
U-NII-5 6.2GHz802 11ax(160M)	Bottom Edge	0	15	6025	13.50	13.49	1.01	100.23%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Bottom Edge	0	47	6185	13.50	13.47	1.01	100.69%	0.001	0.001	0.010	0.010	-
U-NII-5 6.2GHz802 11ax(160M)	Left Edge	0	15	6025	13.50	13.49	1.01	100.23%	0.020	0.020	0.140	0.142	-
U-NII-5 6.2GHz802 11ax(160M)	Left Edge	0	47	6185	13.50	13.47	1.01	100.69%	0.017	0.017	0.120	0.122	-
U-NII-5 6.2GHz802 11ax(160M)	Right Edge	0	15	6025	13.50	13.49	1.01	100.23%	0.006	0.006	0.040	0.041	-
U-NII-5 6.2GHz802 11ax(160M)	Right Edge	0	47	6185	13.50	13.47	1.01	100.69%	0.006	0.006	0.040	0.041	-
U-NII-6 6.5GHz802 11ax(160M)	Back Surface	0	111	6505	13.50	13.48	1.01	100.46%	0.211	0.215	2.270	2.308	-
U-NII-6 6.5GHz802 11ax(160M)	Top Tilt	0	111	6505	13.50	13.48	1.01	100.46%	0.671	0.682	4.710	4.789	081
U-NII-6 6.5GHz802 11ax(160M)	Top Edge	0	111	6505	13.50	13.48	1.01	100.46%	0.641	0.652	4.710	4.789	-
U-NII-6 6.5GHz802 11ax(160M)	Bottom Edge	0	111	6505	13.50	13.48	1.01	100.46%	0.001	0.001	0.010	0.010	-
U-NII-6 6.5GHz802 11ax(160M)	Left Edge	0	111	6505	13.50	13.48	1.01	100.46%	0.028	0.028	0.210	0.214	-
U-NII-6 6.5GHz802 11ax(160M)	Right Edge	0	111	6505	13.50	13.48	1.01	100.46%	0.008	0.008	0.050	0.051	-
U-NII-7 6.7GHz802 11ax(160M)	Back Surface	0	143	6665	13.25	13.06	1.01	104.47%	0.310	0.328	2.460	2.601	-
U-NII-7 6.7GHz802 11ax(160M)	Top Tilt	0	143	6665	13.25	13.06	1.01	104.47%	1.010	1.068	6.330	6.692	082
U-NII-7 6.7GHz802 11ax(160M)	Top Edge	0	143	6665	13.25	13.06	1.01	104.47%	0.854	0.903	5.830	6.164	-
U-NII-7 6.7GHz802 11ax(160M)	Bottom Edge	0	143	6665	13.25	13.06	1.01	104.47%	0.001	0.001	0.010	0.011	-
U-NII-7 6.7GHz802 11ax(160M)	Left Edge	0	143	6665	13.25	13.06	1.01	104.47%	0.032	0.034	0.230	0.243	-
U-NII-7 6.7GHz802 11ax(160M)	Right Edge	0	143	6665	13.25	13.06	1.01	104.47%	0.008	0.009	0.050	0.053	-
repeated	Top Tilt	0	143	6665	13.25	13.06	1.01	104.47%	0.996	1.053	6.140	6.492	-
U-NII-8 7.0GHz 802 11ax (160M)	Back Surface	0	207	6985	12.00	11.76	1.01	105.68%	0.401	0.428	2.860	3.053	-
U-NII-8 7.0GHz 802 11ax (160M)	Top Tilt	0	207	6985	12.00	11.76	1.01	105.68%	0.910	0.971	5.630	6.009	083
U-NII-8 7.0GHz 802 11ax (160M)	Top Edge	0	207	6985	12.00	11.76	1.01	105.68%	0.737	0.787	4.850	4.963	-
U-NII-8 7.0GHz 802 11ax (160M)	Bottom Edge	0	207	6985	12.00	11.76	1.01	105.68%	0.001	0.001	0.010	0.011	-
U-NII-8 7.0GHz 802 11ax (160M)	Left Edge	0	207	6985	12.00	11.76	1.01	105.68%	0.030	0.032	0.220	0.235	-
U-NII-8 7.0GHz 802 11ax (160M)	Right Edge	0	207	6985	12.00	11.76	1.01	105.68%	0.007	0.008	0.040	0.043	-
repeated	Top Tilt	0	207	6985	12.00	11.76	1.01	105.68%	0.881	0.940	5.310	5.668	-

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

Note:

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

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

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7.3 Summary of PD Results

AWAN

chainA

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Top Tilt	2	15	6025	12.00	11.99	100.23%	1.01	1.55	3.210	5.047	2.720	4.276	084
	Top Tilt	2	79	6345	12.00	11.95	101.16%	1.01	1.55	4.850	7.696	4.030	6.395	085
WLAN 6E 802.11ax(160M) U-NII-6	Top Tilt	2	111	6505	11.50	11.44	101.39%	1.01	1.55	4.010	6.378	3.700	5.885	086
WLAN 6E 802.11ax(160M) U-NII-7	Top Tilt	2	143	6665	11.00	10.98	100.46%	1.01	1.55	5.460	8.604	4.940	7.785	087
WLAN 6E 802.11ax(160M) U-NII-8	Top Tilt	2	207	6985	12.75	12.74	100.23%	1.01	1.55	5.160	8.113	4.290	6.745	088

chainB

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Top Edge	2	15	6025	13.50	13.44	101.39%	1.01	1.55	0.996	1.584	0.950	1.511	089
	Top Edge	2	47	6185	13.50	13.48	100.46%	1.01	1.55	1.670	2.632	1.490	2.348	090
WLAN 6E 802.11ax(160M) U-NII-6	Top Edge	2	111	6505	13.50	13.49	100.23%	1.01	1.55	2.000	3.144	1.880	2.956	091
WLAN 6E 802.11ax(160M) U-NII-7	Top Edge	2	143	6665	13.25	13.18	101.62%	1.01	1.55	1.530	2.439	1.240	1.977	092
WLAN 6E 802.11ax(160M) U-NII-8	Top Edge	2	207	6985	12.00	11.94	101.39%	1.01	1.55	1.640	0.256	1.480	2.354	093

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Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Top Tilt	2	47	6185	12.00	11.94	101.39%	1.01	1.55	2.060	3.276	1.940	3.085	094
	Top Tilt	2	79	6345	12.00	11.95	101.16%	1.01	1.55	4.510	7.156	3.920	6.220	095
WLAN 6E 802.11ax(160M) U-NII-6	Top Tilt	2	111	6505	11.50	11.47	100.69%	1.01	1.55	5.000	7.897	4.260	6.729	096
WLAN 6E 802.11ax(160M) U-NII-7	Top Tilt	2	143	6665	11.00	10.85	103.51%	1.01	1.55	4.530	7.355	3.870	6.284	097
WLAN 6E 802.11ax(160M) U-NII-8	Top Edge	2	207	6985	12.75	12.57	104.23%	1.01	1.55	3.610	5.902	3.260	5.330	098

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Top Tilt	2	15	6025	13.50	13.49	100.23%	1.01	1.55	1.500	2.358	1.420	2.233	099
	Top Tilt	2	47	6185	13.50	13.47	100.69%	1.01	1.55	1.290	2.038	1.130	1.785	100
WLAN 6E 802.11ax(160M) U-NII-6	Top Tilt	2	111	6505	13.50	13.48	100.46%	1.01	1.55	1.500	2.364	1.320	2.080	101
WLAN 6E 802.11ax(160M) U-NII-7	Top Tilt	2	143	6665	13.25	13.06	104.47%	1.01	1.55	1.880	3.081	1.640	2.688	102
WLAN 6E 802.11ax(160M) U-NII-8	Top Tilt	2	207	6985	12.00	11.76	105.68%	1.01	1.55	1.840	3.050	1.760	2.918	103

Note:

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

7.4 Reporting statements of conformity

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

7.5 Conclusion

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

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8 SIMULTANEOUS TRANSMISSION ANALYSIS

8.1 Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WiFi Main 2.4GHz +BT	YES
WiFi Main 2.4GHz + WiFi MIMO 2.4GHz	YES
WiFi Main 5GHz + BT	YES
WiFi Main 5GHz + WiFi MIMO 5GHz	YES
WiFi Main 5GHz + WiFi MIMO 5GHz +BT	YES
WiFi Main 6GHz + BT	YES
WiFi Main 6GHz + WiFi MIMO 6GHz	YES
WiFi Main 6GHz + WiFi MIMO 6GHz +BT	YES
Note: 1. Bluetooth and WLAN Aux share the same antenna path, and BT can transmit with WLAN Main simultaneously. 2. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission is the same with or less than that used in standalone transmission, and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the simultaneous transmitted SAR measurement.	

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8.2 Estimated SAR calculation

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

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

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

8.3 SPLSR evaluation and analysis

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

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

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

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

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

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Simultaneous Transmission Combination

AWAN

Mode 1

	Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	
Exposure Position	1	2	3	4	5	6	7	2+5	1+2	4+5	3+4	3+4+5	5+7	6+7	5+6+7	
	2.4GHz WLAN ChainA	2.4GHz WLAN ChainB	5GHz WLAN ChainA	5GHz WLAN ChainB	Bluetooth ChainA	6GHz WLAN ChainA	6GHz WLAN ChainB	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
	Bottom Surface	0	0.004	0.016	0.020	0.026	0.002	0.048	0.032	0.018	0.020	0.028	0.046	0.048	0.034	0.080
the sum of 1g<1.6, not required																

Mode 2

Exposure Position	Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	SPLSR
	1	2	3	4	5	6	7	2+5	1+2	4+5	3+4	3+4+5	5+7	6+7	5+6+7	
	2.4GHz WLAN ChainA	2.4GHz WLAN ChainB	5GHz WLAN ChainA	5GHz WLAN ChainB	Bluetooth ChainA	5GHz WLAN ChainA	5GHz WLAN ChainB	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Back Surface	0.938	0.769	0.759	0.598	0.319	0.649	0.406	1.088	1.707	0.917	1.357	1.678	0.725	1.055	1.374	the sum of 1g-SAR >1.6, analysis as below
Top Edge	0.521	0.404	0.835	0.931	0.102	0.934	0.844	0.506	0.925	1.033	1.766	1.368	0.946	1.778	1.890	the sum of 1g-SAR >1.6, analysis as below
Top Tilt	0.798	0.628	1.041	0.875	0.259	1.073	0.838	0.887	1.426	1.134	1.916	2.175	1.097	1.911	2.170	the sum of 1g-SAR >1.6, analysis as below
Bottom Edge	0.025	0.009	0.024	0.026	0.013	0.001	0.001	0.022	0.034	0.039	0.050	0.063	0.014	0.002	0.015	the sum of 1g-SAR <1.6, not required
Left Edge	0.009	0.090	0.022	0.034	0.002	0.001	0.032	0.092	0.099	0.036	0.056	0.098	0.034	0.033	0.035	the sum of 1g-SAR <1.6, not required
Right Edge	0.021	0.006	0.113	0.008	0.007	0.068	0.008	0.013	0.027	0.015	0.121	0.128	0.015	0.076	0.083	the sum of 1g-SAR <1.6, not required

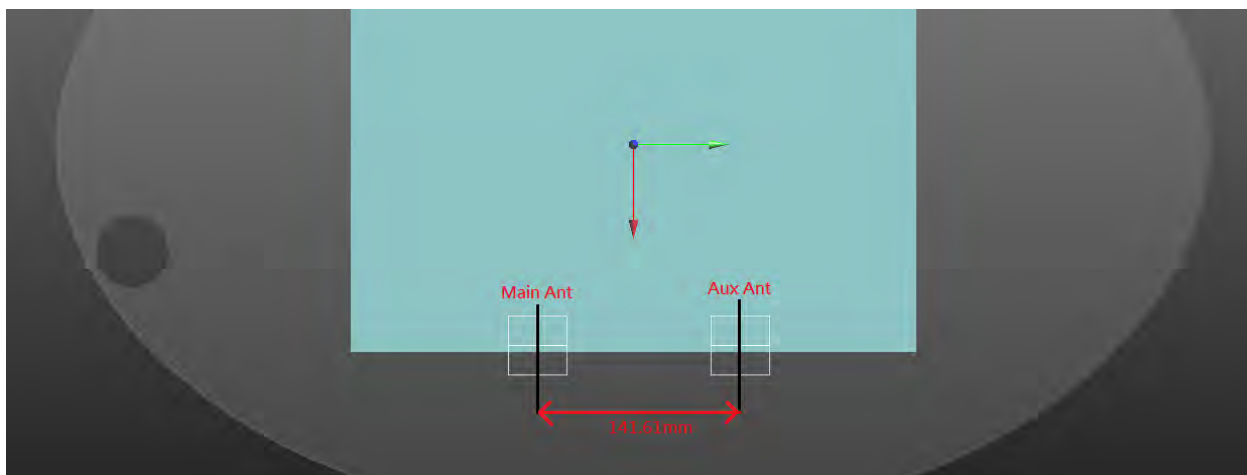
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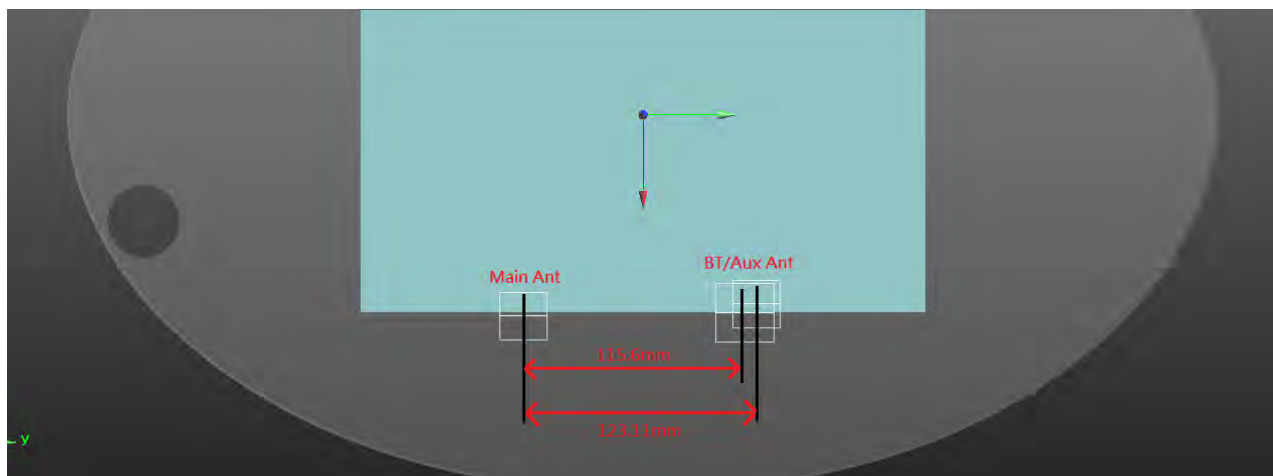
Scenario 2: 1+2									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	2.4GHz WLANChainA	0.938	10.06	5.34	-0.50	-	-	-	-
	2.4GHz WLANChainB	0.769	10.26	-8.82	-0.50	1.707	141.61	0.016	SPLSR ≤ 0.04, Not required

Scenario 2: 1+2



Scenario 5: 3+4+5									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	5GHz WLANChainA+ BluetoothChainA	1.078	10.14	5.30	-0.15	-	-	-	-
	5GHz WLANChainB	0.598	10.20	-6.26	-0.15	1.676	115.60	0.019	SPLSR ≤ 0.04, Not required

Scenario 5: 3+4+5



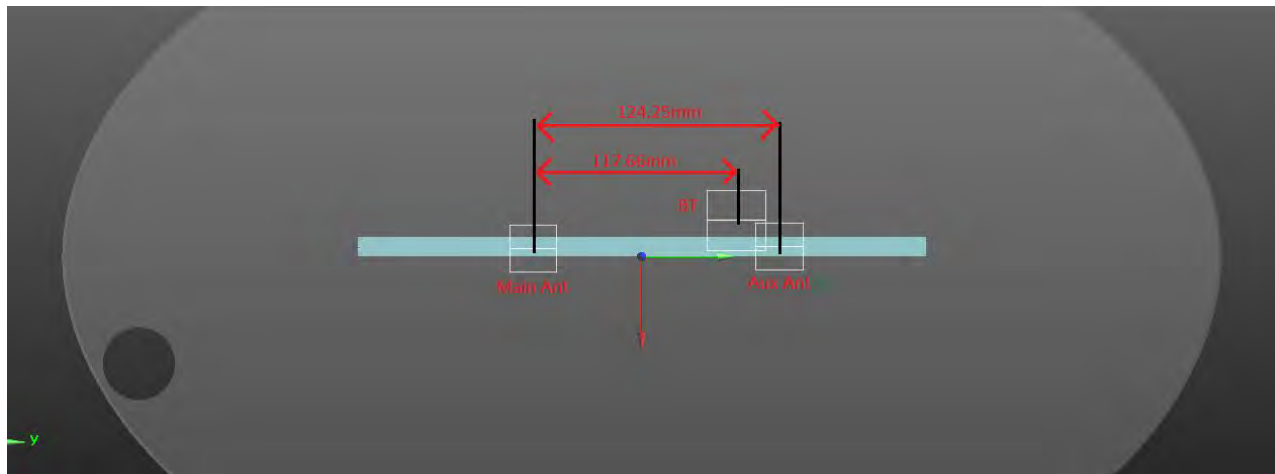
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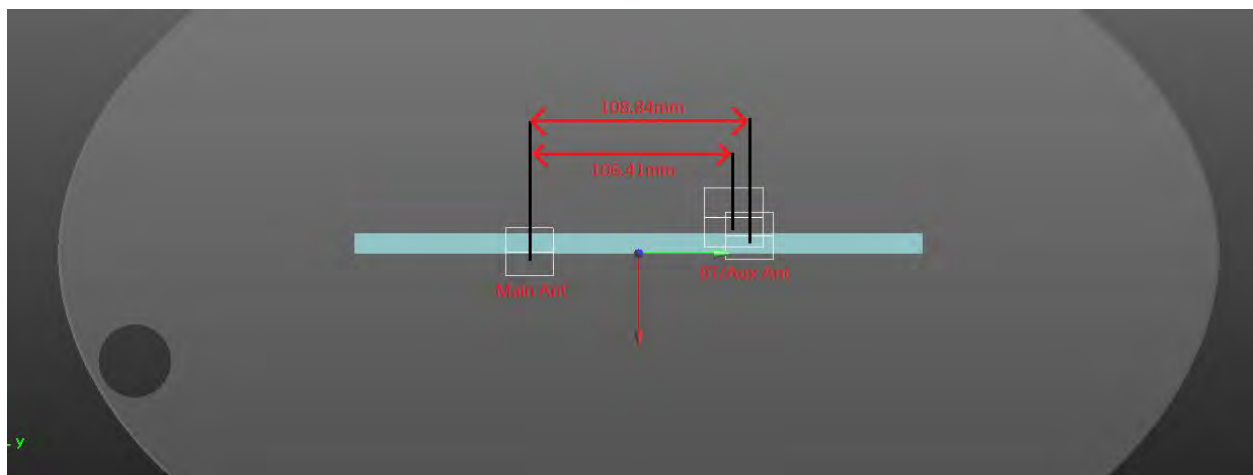
Scenario 5: 3+4+5									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	5GHz WLANChainA+ BluetoothChainA	0.937	-0.82	5.84	-0.38	-	-	-	-
	5GHz WLANChainB	0.931	-0.68	-5.92	-0.71	1.868	117.66	0.022	SPLSR ≤ 0.04, Not required

Scenario 5: 3+4+5



Scenario 8: 5+6+7									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	6GHz WLANChainA+ BluetoothChainA	1.036	-0.32	5.62	-0.38	-	-	-	-
	6GHz WLANChainB	0.844	-0.16	-5.02	-0.35	1.880	106.41	0.024	SPLSR ≤ 0.04, Not required

Scenario 8: 5+6+7



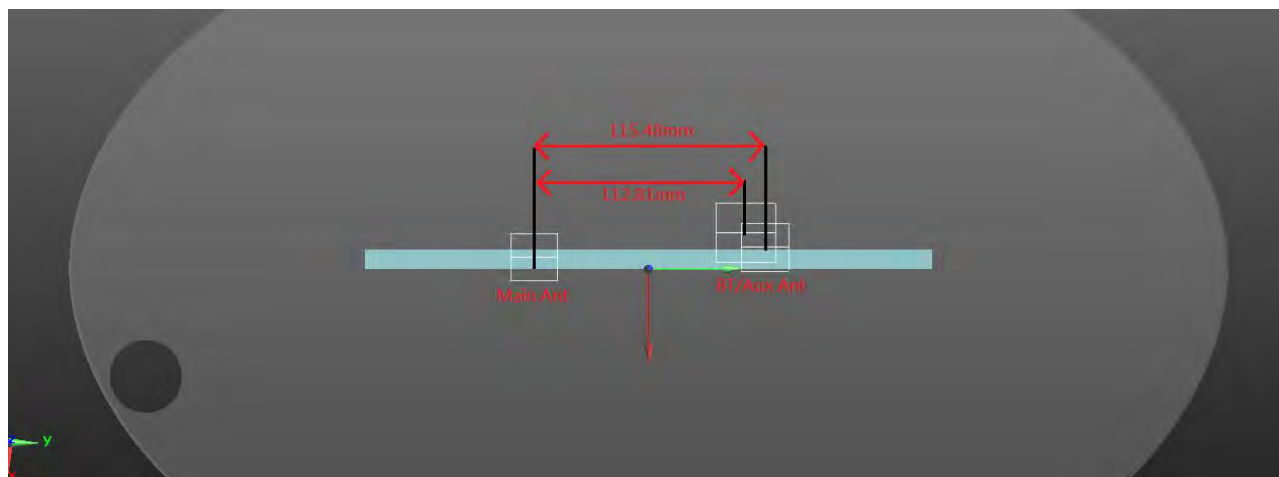
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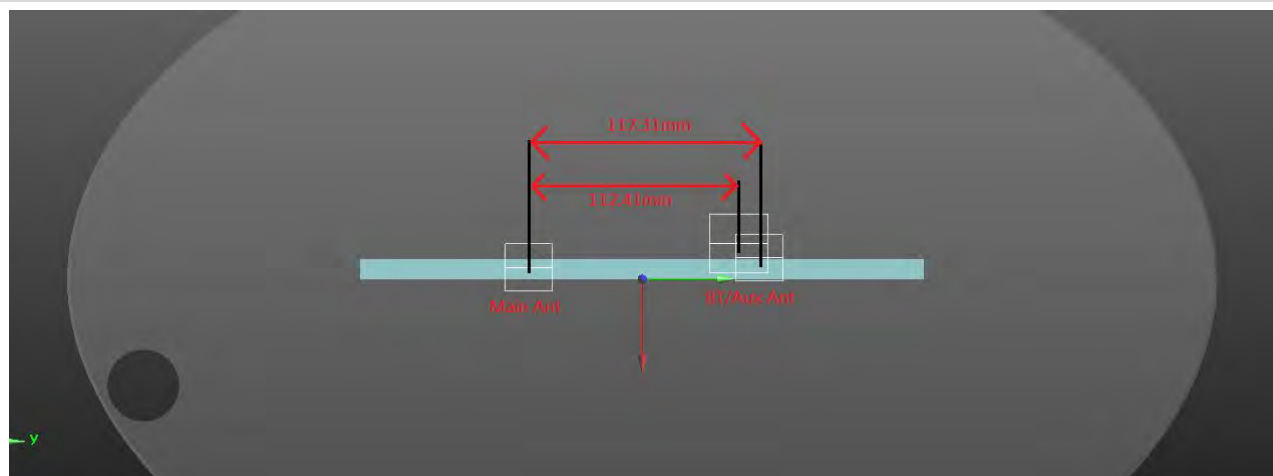
Scenario 5: 3+4+5									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Tilt	5GHz WLANChainA+ BluetoothChainA	1.319	-0.82	5.44	-0.72	-	-	-	-
	5GHz WLANChainB	0.875	-0.94	-5.84	-0.69	2.194	112.81	0.029	SPLSR ≤ 0.04, Not required

Scenario 5: 3+4+5



Scenario 8: 5+6+7									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Tilt	6GHz WLAN TX1_ChainA+Bluetooth TX1_ChainA	1.332	-0.82	5.44	-0.72	-	-	-	-
	6GHz WLAN Main_ChainB	0.838	-0.68	-5.80	-0.72	2.170	112.41	0.028	SPLSR ≤ 0.04, Not required

Scenario 8: 5+6+7



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Mode 1

		Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	
Exposure Position		1	2	3	4	5	6	7	2+5	1+2	4+5	3+4	3+4+5	5+7	6+7	5+6+7	SPLSR
		2.4GHz WLAN ChanA	2.4GHz WLAN ChanB	5GHz WLAN ChanA	5GHz WLAN ChanB	Bluetooth ChanA	6GHz WLAN ChanA	6GHz WLAN ChanB	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Bottom Surface	0	0.034	0.009	0.084	0.064	0.006	0.064	0.055	0.015	0.033	0.078	0.148	0.154	0.061	0.119	0.125	the sum of 1g-SAR<1.6, not required analysis

Mode 2

		Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	
Exposure Position		1	2	3	4	5	6	7	2+5	1+2	4+5	3+4	3+4+5	5+7	6+7	5+6+7	SPLSR
		2.4GHz WLAN ChanA	2.4GHz WLAN ChanB	5GHz WLAN ChanA	5GHz WLAN ChanB	Bluetooth ChanA	6GHz WLAN ChanA	6GHz WLAN ChanB	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Back Surface	0	1.065	0.738	0.412	0.518	0.315	0.590	0.428	1.063	1.823	0.823	0.938	1.245	0.743	1.018	1.333	the sum of 1g-SAR>1.6, need analysis as below
Top Edge	0	0.526	0.424	0.838	0.865	0.135	0.950	0.903	0.889	0.959	1.101	1.002	1.277	1.038	1.033	1.068	the sum of 1g-SAR>1.6, need analysis as below
Top Tip	0	0.752	0.697	0.938	0.856	0.253	0.877	1.068	0.950	1.408	1.109	1.094	1.947	1.321	1.945	2.198	the sum of 1g-SAR>1.6, need analysis as below
Bottom Edge	0	0.033	0.011	0.042	0.026	0.018	0.002	0.001	0.029	0.044	0.044	0.068	0.086	0.019	0.003	0.021	the sum of 1g-SAR<1.6, not required
Left Edge	0	0.010	0.097	0.041	0.040	0.004	0.001	0.034	0.101	0.107	0.044	0.081	0.085	0.038	0.035	0.039	the sum of 1g-SAR<1.6, not required
Right Edge	0	0.026	0.007	0.153	0.008	0.009	0.056	0.009	0.016	0.033	0.017	0.161	0.170	0.018	0.065	0.074	the sum of 1g-SAR<1.6, not required

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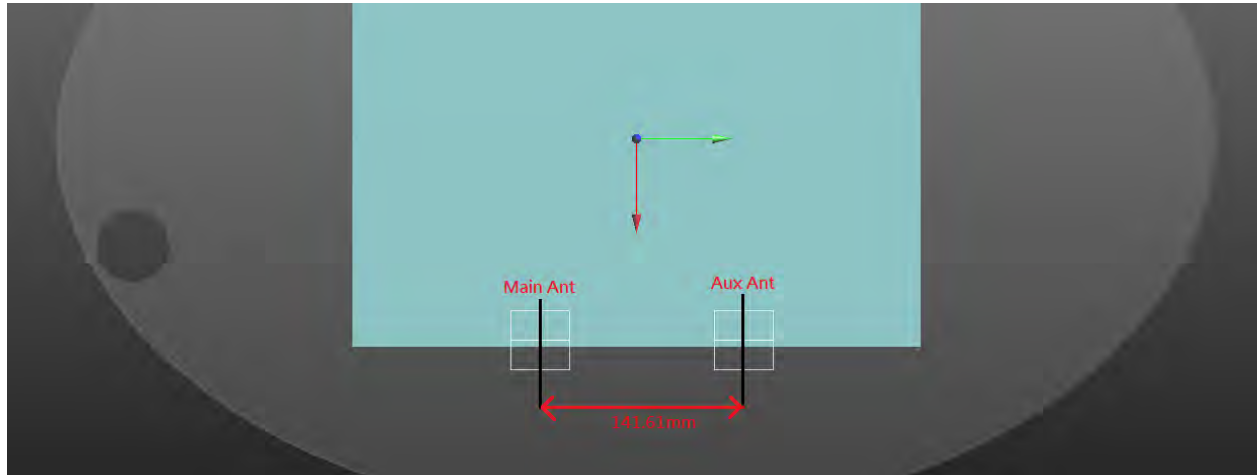
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Scenario 2: 1+2									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	2.4GHz WLANChainA	1.085	10.06	5.34	-0.50	-	-	-	-
	2.4GHz WLANChainB	0.738	10.26	-8.82	-0.50	1.823	141.61	0.017	SPLSR ≤ 0.04, Not required



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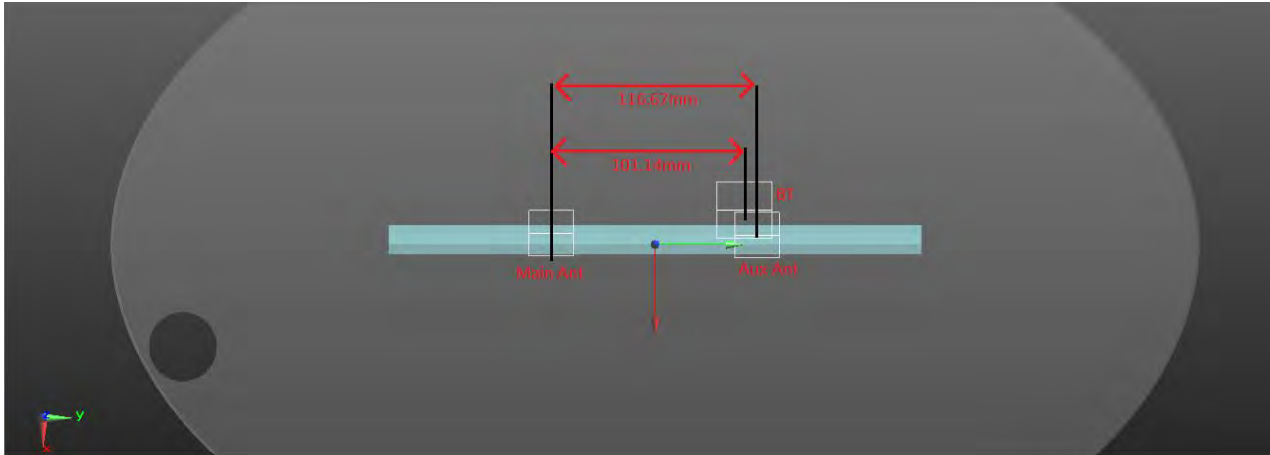
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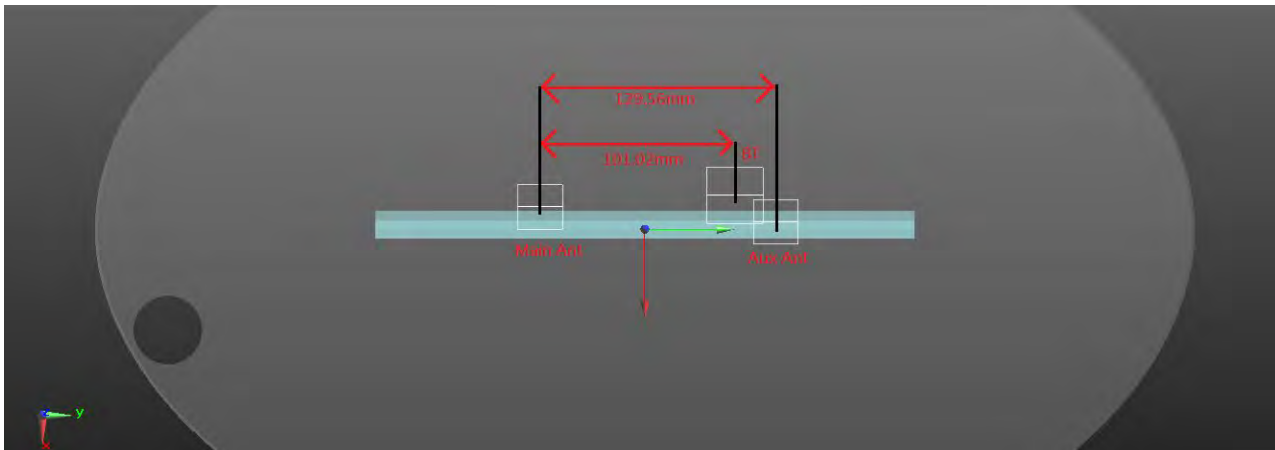
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Scenario 5: 3+4+5									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	5GHz WLANChainA+ BluetoothChainA	0.771	-1.04	4.94	-0.70	-	-	-	-
	5GHz WLANChainB	0.966	0.60	-5.04	-0.70	1.737	101.14	0.023	SPLSR ≤ 0.04, Not required



Scenario 8: 5+6+7									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	6GHz WLANChainA+ BluetoothChainA	1.085	-1.04	4.94	-0.70	-	-	-	-
	6GHz WLANChainB	0.903	0.08	-5.10	-0.70	1.988	101.02	0.028	SPLSR ≤ 0.04, Not required

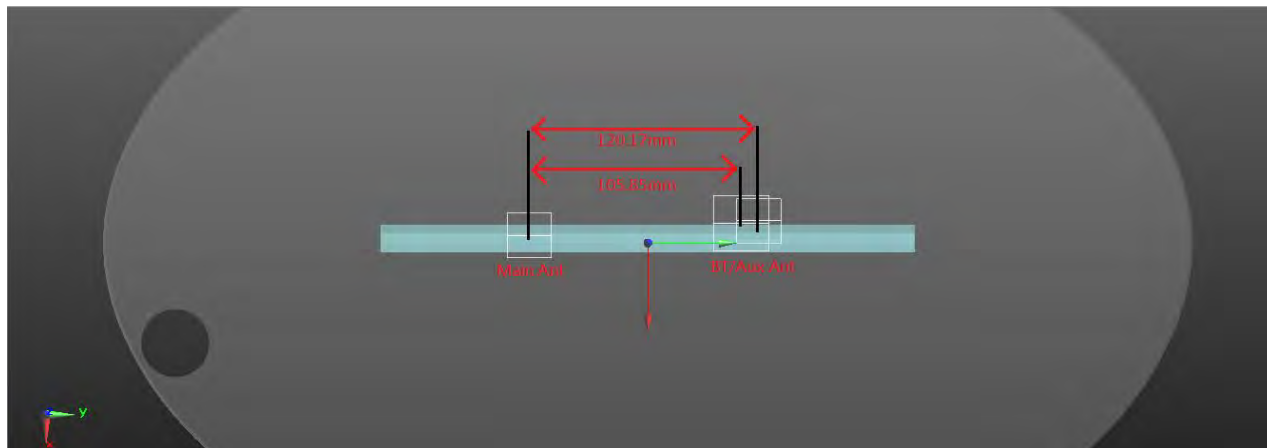


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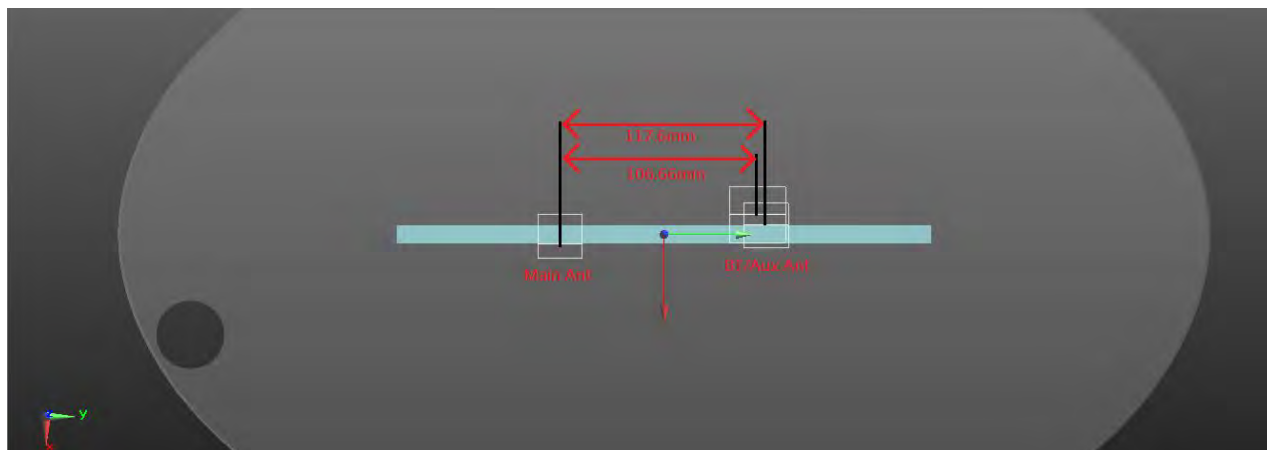
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Scenario 5: 3+4+5									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Tilt	5GHz WLANChainA+ BluetoothChainA	1.091	-1.16	4.64	-0.78	-	-	-	-
	5GHz WLANChainB	0.856	-0.56	-5.92	-0.37	1.947	105.85	0.026	SPLSR ≤ 0.04, Not required



Scenario 8: 5+6+7									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Tilt	6GHz WLANChainA+ BluetoothChainA	1.130	-1.16	4.64	-0.78	-	-	-	-
	6GHz WLANChainB	1.068	0.34	-5.92	-0.74	2.198	106.66	0.031	SPLSR ≤ 0.04, Not required



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8.4 Conclusion

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

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9 INSTRUMENTS LIST

SAR Test Site: SAR_3					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	7686	Oct/05/2021	Oct/06/2022
SPEAG	E-field Probe for Near Field Application	EUmmWV3	9399	Jan/26/2022	Jan/25/2023
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2022	Apr/24/2023
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/27/2022	Jan/26/2023
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/26/2021	Aug/25/2022
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/26/2021	Aug/25/2022
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/24/2022	Jan/23/2023
SPEAG	Data acquisition Electronics	DAE4	1665	Feb/28/2022	Feb/27/2023
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 V16.0.0.116	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
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
Agilent	Dual-directional coupler	772D	MY52180142	Nov/02/2021	Nov/01/2022
Agilent	Dual-directional coupler	778D	MY52180302	Oct/29/2021	Oct/28/2022
R&S	MXG Analog Signal Generator	SMB100A03	182996	Dec/08/2021	Dec/07/2022
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Meter	NRX	102191	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	101358	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	109065	Oct/12/2021	Oct/11/2022
LKM	Digital thermometer	DTM3000	EC14010603	Nov/09/2021	Nov/08/2022
TECPEL	Digital thermometer	DTM-303A	TP190085	Jan/14/2022	Jan/13/2023

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10 UNCERTAINTY BUDGET

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.65%	N	1	1	0.64	0.43	0.42%	0.28%	M
Liquid Conductivity (mea.)	0.46%	N	1	1	0.6	0.49	0.28%	0.23%	M
Combined standard uncertainty		RSS					11.73%	11.71%	
Expan uncertainty (95% confidence interval), K=2							23.45%	23.42%	

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distribution	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy , Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.56%	N	1	1	0.64	0.43	0.36%	0.24%	M
Liquid Conductivity (mea.)	0.45%	N	1	1	0.6	0.49	0.27%	0.22%	M
Combined standard uncertainty		RSS					11.43%	11.41%	
Expan uncertainty (95% confidence interval), K=2							22.85%	22.83%	

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

a	b	c	d		e	e	f=b * e / d	f=b * e / d
Source of Uncertainty	Uncertainty Value (±%)	Probability Distribution	Div.	Div. Value	(ci) 1g	(ci) 10g	Std. uncertainty (1g) (±%)	Std. uncertainty (10g) (±%)
Measurement system errors								
Probe calibration	18.6	N	2	2	1	1	9.3	9.3
Probe Calibration Drift	1.7	R	√3	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	√3	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	√3	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	√3	1.732	1	1	4.4	4.4
Data Acquisition	0.3	N	1	1	1	1	0.3	0.3
RF Ambient	1.8	N	1	1	1	1	1.8	1.8
Probe positioning	0.2	N	1	1	0.67	0.67	0.1	0.1
Data Processing	3.5	N	1	1	1	1	3.5	3.5
Phantom and device errors								
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8
Conductivity (temp.)BB	2.4	R	√3	1.732	0.78	0.71	1.1	1.0
Phantom Permittivity	14.0	R	√3	1.732	0.5	0.5	4.0	4.0
Distance DUT - TSL	2.0	N	1	1	2	2	4.0	4.0
Device Positioning (±0.5mm)	1.0	N	1	1	1	1	1.0	1.0
Device Holder	3.6	N	1	1	1	1	3.6	3.6
DUT Modulationm	2.4	R	√3	1.732	1	1	1.4	1.4
Time-average SAR	0.0	R	√3	1.732	1	1	0.0	0.0
DUT drift	2.5	N	1	1	1	1	2.5	2.5
Val Antenna Unc.	0.0	N	1	1	1	1	0.0	0.0
Unc. Input Power	0.0	N	1	1	1	1	0.0	0.0
Correction to the SAR results								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling	1.073	R	√3	1.732	1	1	0.6	0.6
Combined Std. uncertainty							14.0	13.9
Expanded Std. uncertainty (95% confidence interval), K=2							28.0	27.8

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

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

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11 SAR MEASUREMENT RESULTS

Date: 2022/7/1

ID: 001

Report No. :TESA2205000114E5

WLAN 802.11b_Body_Bottom Surface_CH 1_ChainA_0mm

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1.010

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.773$ S/m; $\epsilon_r = 39.488$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.00831 W/kg

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

Reference Value = 1.279 V/m; Power Drift = 0.12 dB

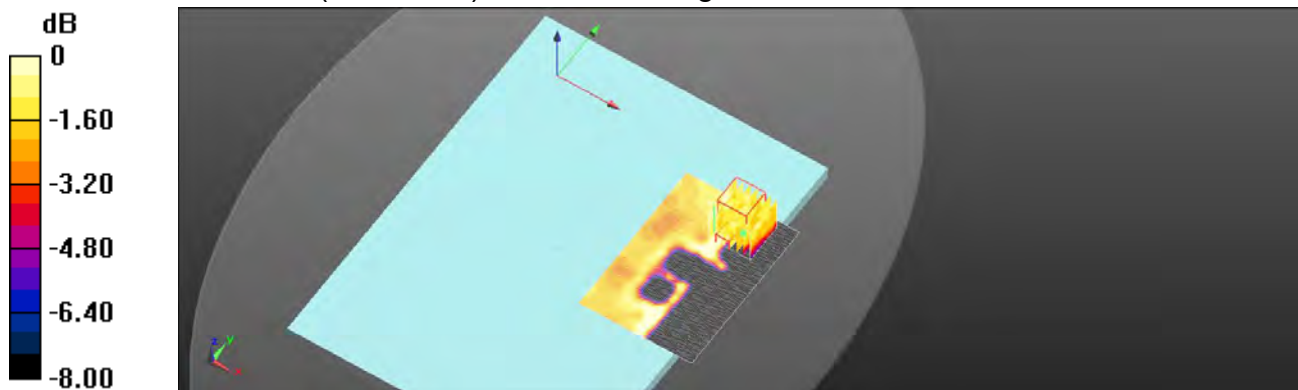
Peak SAR (extrapolated) = 0.00603 W/kg

SAR(1 g) = 0.00388 W/kg; SAR(10 g) = 0.00342 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 90%

Maximum value of SAR (measured) = 0.00453 W/kg



0 dB = 0.00453 W/kg = -23.44 dBW/kg

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Date: 2022/7/1

ID: 002

Report No. :TESA2205000114E5

Bluetooth(GFSK)_Body_Bottom Surface_CH 78_ChainA_0mm

Communication System: Bluetooth; Frequency: 2480 MHz;Duty Cycle: 1:1.295

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.841 \text{ S/m}$; $\epsilon_r = 39.35$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

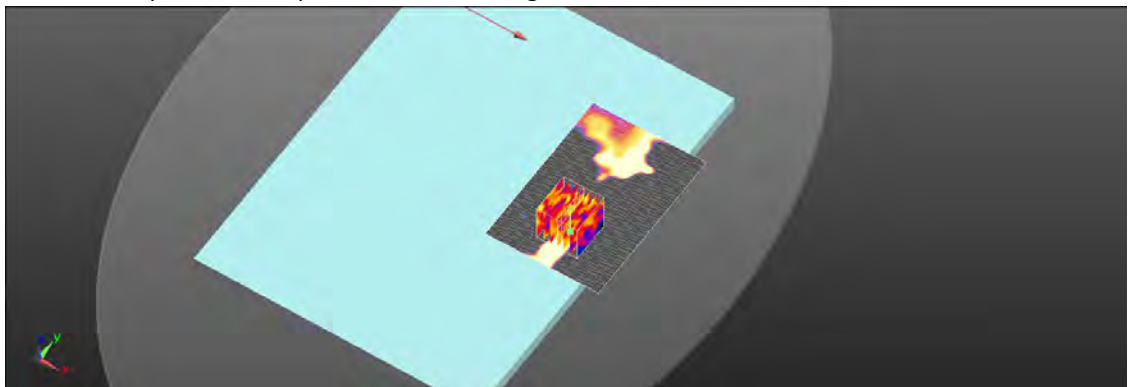
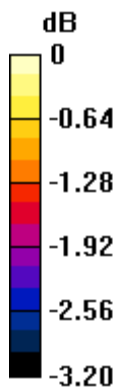
Maximum value of SAR (interpolated) = 0.00407 W/kg
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.119 V/m ; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.00218 W/kg
SAR(1 g) = 0.00105 W/kg ; SAR(10 g) = 0.0009 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 92%

Maximum value of SAR (measured) = 0.00103 W/kg

 $0 \text{ dB} = 0.00103 \text{ W/kg} = -29.88 \text{ dBW/kg}$

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Date: 2022/7/2

ID: 003

Report No. : TESA2205000114E5

WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_ChainA_0mm

Communication System: WLAN; Frequency: 5230 MHz; Duty Cycle: 1:1.007

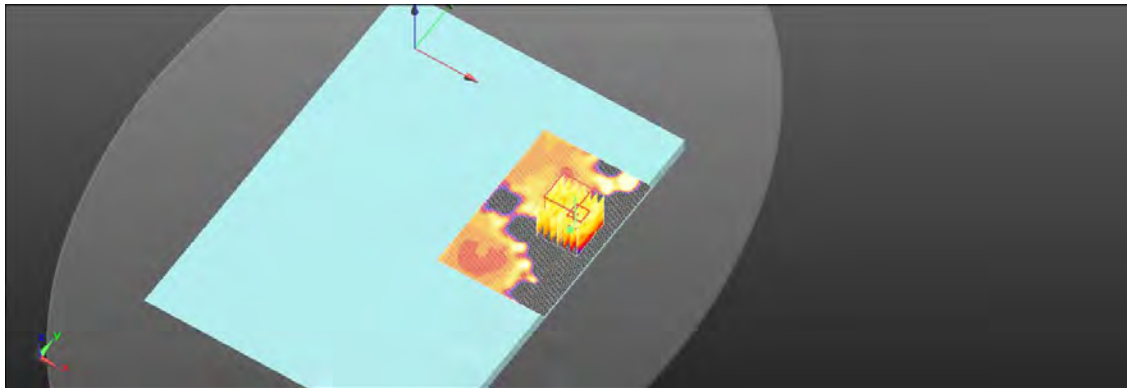
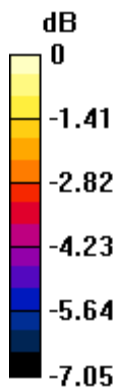
Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.702 \text{ S/m}$; $\epsilon_r = 36.174$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C ; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$ Maximum value of SAR (interpolated) = 0.0558 W/kg **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.713 V/m ; Power Drift = 0.16 dB Peak SAR (extrapolated) = 0.0480 W/kg **SAR(1 g) = 0.015 W/kg ; SAR(10 g) = 0.014 W/kg** Smallest distance from peaks to all points 3 dB below = 7.5 mm Ratio of SAR at M2 to SAR at M1 = 50.6% Maximum value of SAR (measured) = 0.0182 W/kg 0 dB = 0.0182 W/kg = -17.40 dBW/kg

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Date: 2022/7/2

ID: 004

Report No. :TESA2205000114E5

WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_ChainA_0mm

Communication System: WLAN; Frequency: 5270 MHz;Duty Cycle: 1:1.007

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.747 \text{ S/m}$; $\epsilon_r = 36.118$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0223 W/kg

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

Reference Value = 1.685 V/m; Power Drift = 0.14 dB

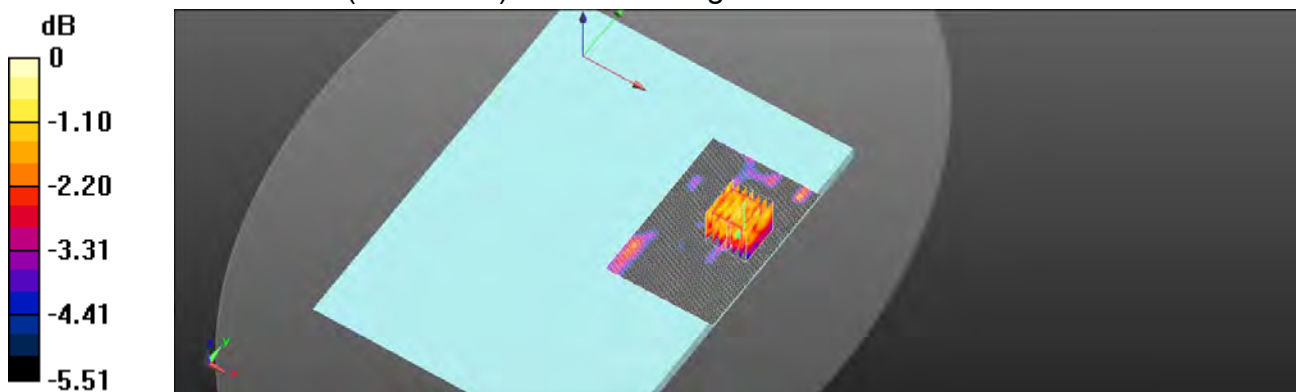
Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.012 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 65%

Maximum value of SAR (measured) = 0.0179 W/kg



0 dB = 0.0179 W/kg = -17.47 dBW/kg

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Date: 2022/7/3

ID: 005

Report No. :TESA2205000114E5

WLAN 802.11ax(160M) 5.6G_Body_Bottom Surface_CH 114_ChainA_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.013

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.052 \text{ S/m}$; $\epsilon_r = 35.758$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.0194 W/kg

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

Reference Value = 2.356 V/m; Power Drift = 0.01 dB

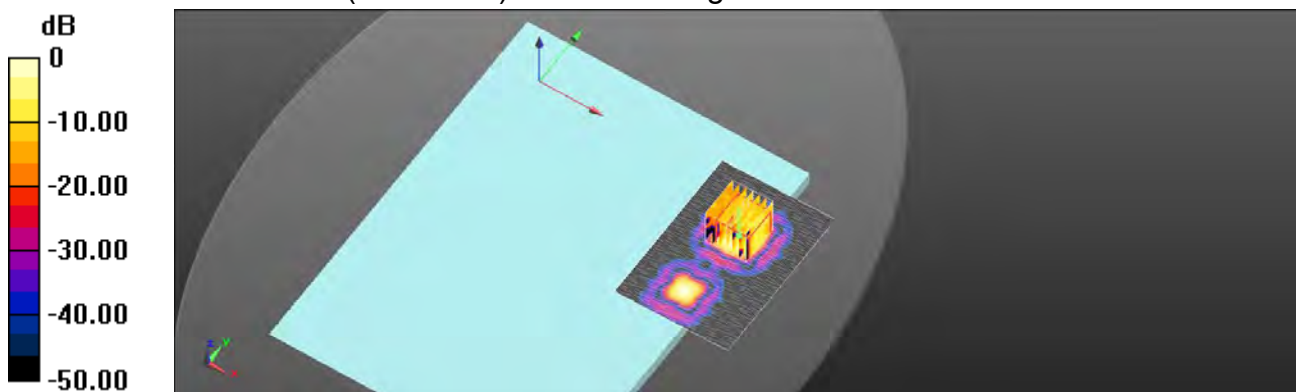
Peak SAR (extrapolated) = 0.0310 W/kg

SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00335 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.7%

Maximum value of SAR (measured) = 0.0222 W/kg



0 dB = 0.0222 W/kg = -16.53 dBW/kg

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Date: 2022/7/4

ID: 006

Report No. :TESA2205000114E5

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_ChainA_0mm

Communication System: WLAN; Frequency: 5775 MHz;Duty Cycle: 1:1.006

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.265 \text{ S/m}$; $\epsilon_r = 35.558$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0372 W/kg

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

Reference Value = 1.677 V/m; Power Drift = 0.13 dB

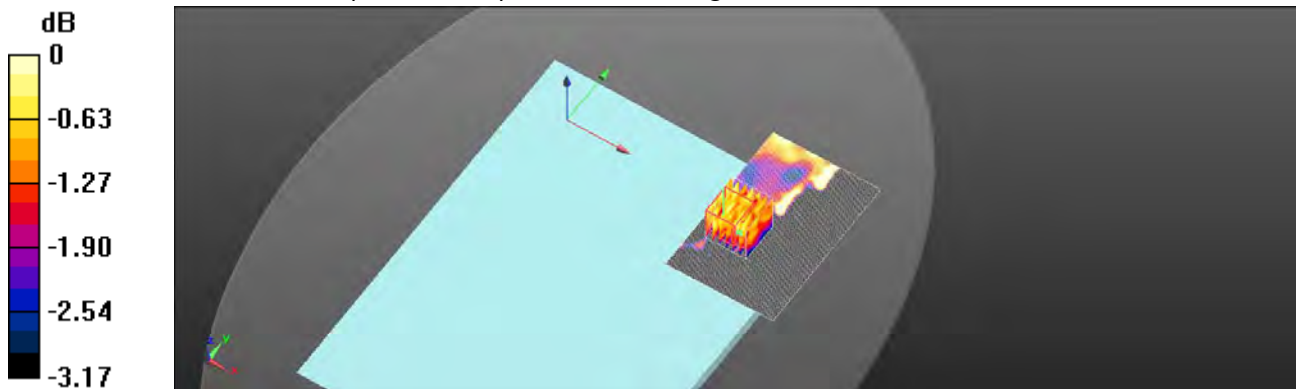
Peak SAR (extrapolated) = 0.0380 W/kg

SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.017 W/kg

Smallest distance from peaks to all points 3 dB below = 5.5 mm

Ratio of SAR at M2 to SAR at M1 = 40.1%

Maximum value of SAR (measured) = 0.0215 W/kg



0 dB = 0.0215 W/kg = -16.68 dBW/kg

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Date: 2022/7/1

ID: 007

Report No. :TESA2205000114E5

WLAN 802.11b_Body_Bottom Surface_CH 11_ChainB_0mm

Communication System: WLAN; Frequency: 2462 MHz;Duty Cycle: 1:1.010

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.817 \text{ S/m}$; $\epsilon_r = 39.382$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

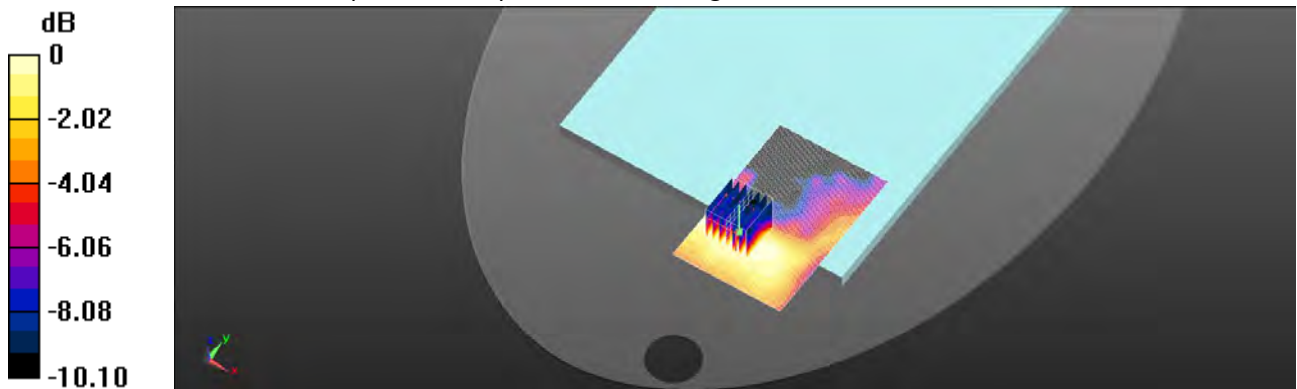
Maximum value of SAR (interpolated) = 0.0222 W/kg
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.175 V/m ; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.0290 W/kg
SAR(1 g) = 0.016 W/kg ; SAR(10 g) = 0.00978 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 0.0215 W/kg

 $0 \text{ dB} = 0.0215 \text{ W/kg} = -16.68 \text{ dBW/kg}$

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Date: 2022/7/2

ID: 008

Report No. :TESA2205000114E5

WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_ChainB_0mm

Communication System: WLAN; Frequency: 5230 MHz;Duty Cycle: 1:1.007

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.702 \text{ S/m}$; $\epsilon_r = 36.174$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0447 W/kg

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

Reference Value = 1.762 V/m; Power Drift = 0.14 dB

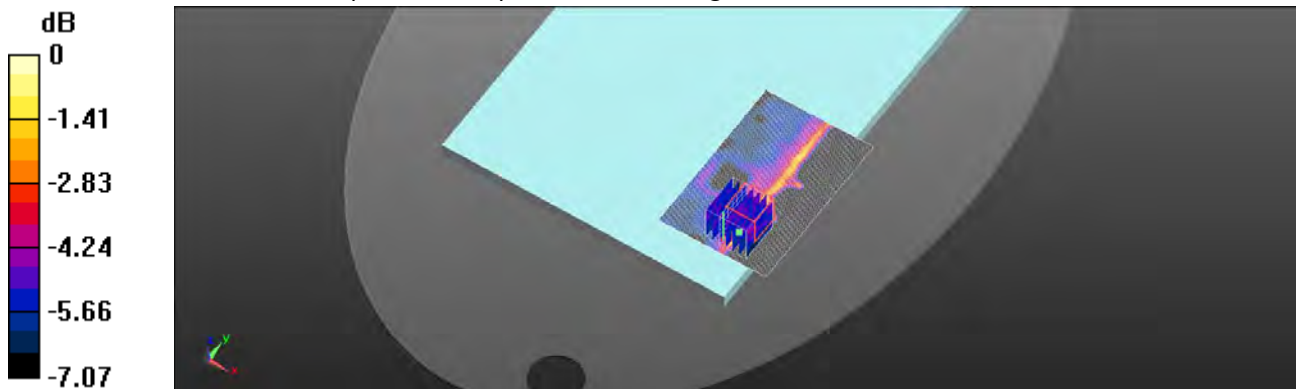
Peak SAR (extrapolated) = 0.0810 W/kg

SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.015 W/kg

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

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

Maximum value of SAR (measured) = 0.0511 W/kg



0 dB = 0.0511 W/kg = -12.92 dBW/kg

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Date: 2022/7/2

ID: 009

Report No. :TESA2205000114E5

WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_ChainB_0mm

Communication System: WLAN; Frequency: 5270 MHz;Duty Cycle: 1:1.007

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.747 \text{ S/m}$; $\epsilon_r = 36.118$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0835 W/kg

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

Reference Value = 1.957 V/m; Power Drift = 0.15 dB

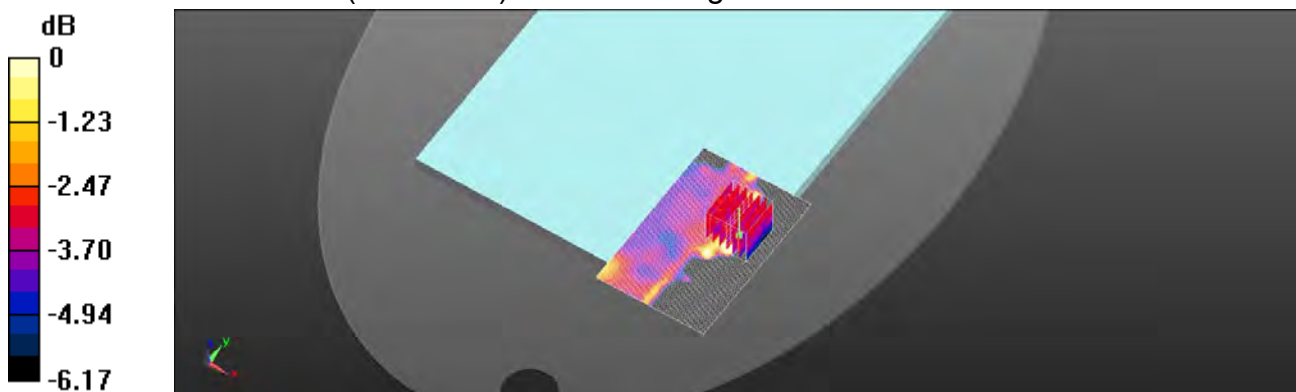
Peak SAR (extrapolated) = 0.0610 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.019 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 45.7%

Maximum value of SAR (measured) = 0.0386 W/kg



0 dB = 0.0386 W/kg = -14.13 dBW/kg

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Date: 2022/7/3

ID: 010

Report No. :TESA2205000114E5

WLAN 802.11ax(160M) 5.6G_Body_Bottom Surface_CH 114_ChainB_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.013

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.052 \text{ S/m}$; $\epsilon_r = 35.758$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0411 W/kg

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

Reference Value = 2.053 V/m; Power Drift = 0.14 dB

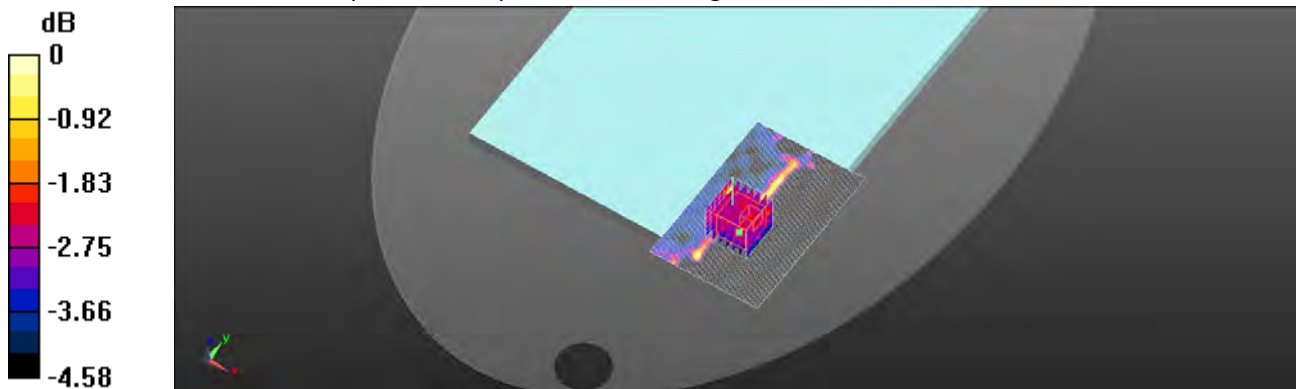
Peak SAR (extrapolated) = 0.0390 W/kg

SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.021 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 = 48.3%

Maximum value of SAR (measured) = 0.0389 W/kg



0 dB = 0.0389 W/kg = -14.10 dBW/kg

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Date: 2022/7/4

ID: 011

Report No. :TESA2205000114E5

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_ChainB_0mm

Communication System: WLAN; Frequency: 5775 MHz;Duty Cycle: 1:1.006

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.265 \text{ S/m}$; $\epsilon_r = 35.558$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0724 W/kg

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

Reference Value = 1.886 V/m; Power Drift = 0.11 dB

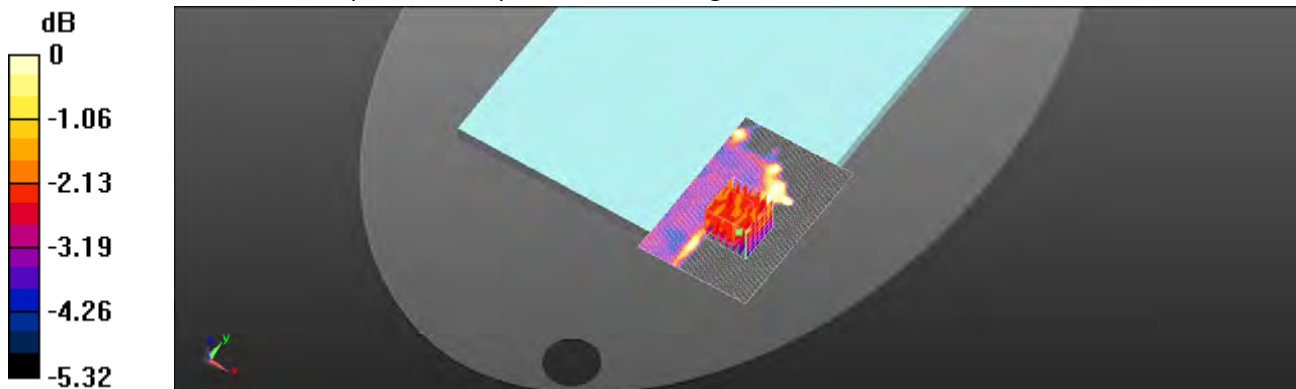
Peak SAR (extrapolated) = 0.0660 W/kg

SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.020 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 75.9%

Maximum value of SAR (measured) = 0.0344 W/kg



0 dB = 0.0344 W/kg = -14.64 dBW/kg

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Date: 2022/7/1

ID: 012

Report No. :TESA2205000114E5

WLAN 802.11b_Body_Back Surface_CH 1_ChainA_0mm

Communication System: WLAN; Frequency: 2412 MHz;Duty Cycle: 1:1.010

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.773 \text{ S/m}$; $\epsilon_r = 39.488$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.65 W/kg
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.587 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.62 W/kg
SAR(1 g) = 0.927 W/kg ; SAR(10 g) = 0.380 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 37.6%

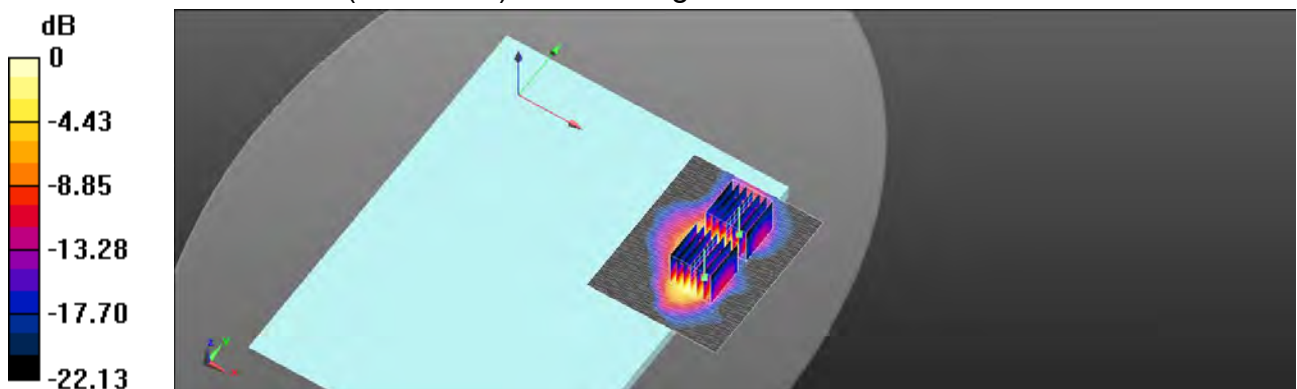
Maximum value of SAR (measured) = 1.68 W/kg
Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.587 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.56 W/kg
SAR(1 g) = 0.866 W/kg ; SAR(10 g) = 0.350 W/kg

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 36.3%

Maximum value of SAR (measured) = 1.56 W/kg

 $0 \text{ dB} = 1.56 \text{ W/kg} = 1.93 \text{ dBW/kg}$

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Date: 2022/7/1

ID: 013

Report No. :TESA2205000114E5

Bluetooth(GFSK)_Body_Back Surface_CH 78_ChainA_0mm

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.295

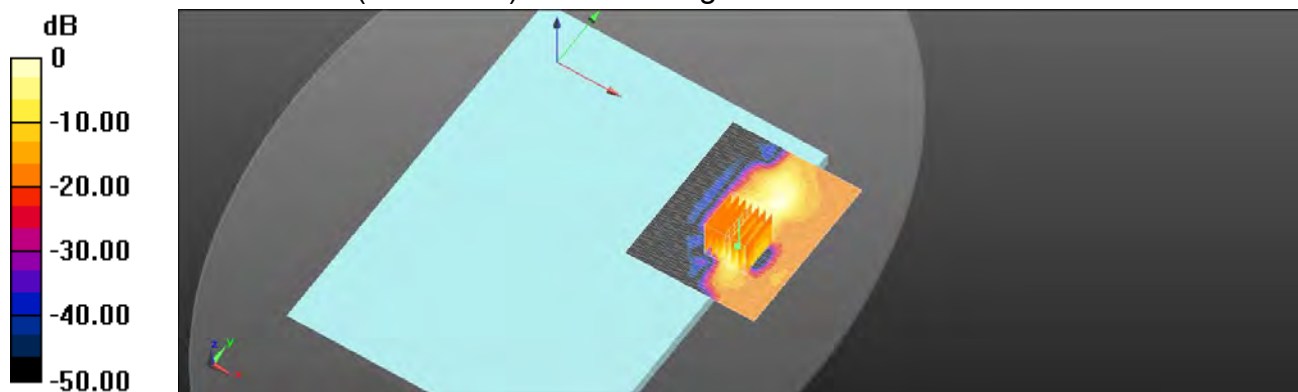
Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.841 \text{ S/m}$; $\epsilon_r = 39.35$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$ Maximum value of SAR (interpolated) = 0.434 W/kg **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 0.8394 V/m ; Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.476 W/kg **SAR(1 g) = 0.187 W/kg ; SAR(10 g) = 0.067 W/kg** Smallest distance from peaks to all points 3 dB below = 6 mm Ratio of SAR at M2 to SAR at M1 = 42.5% Maximum value of SAR (measured) = 0.281 W/kg  $0 \text{ dB} = 0.281 \text{ W/kg} = -5.51 \text{ dBW/kg}$

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Date: 2022/7/2

ID: 014

Report No. :TESA2205000114E5

WLAN 802.11ac(160M) 5.2G_Body_Top Tilt_CH 50_ChainA_0mm

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.009

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.726$ S/m; $\epsilon_r = 36.144$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.922 W/kg

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

Reference Value = 0.9621 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.143 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7 mm

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

Maximum value of SAR (measured) = 1.13 W/kg

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

Reference Value = 0.9621 V/m; Power Drift = 0.03 dB

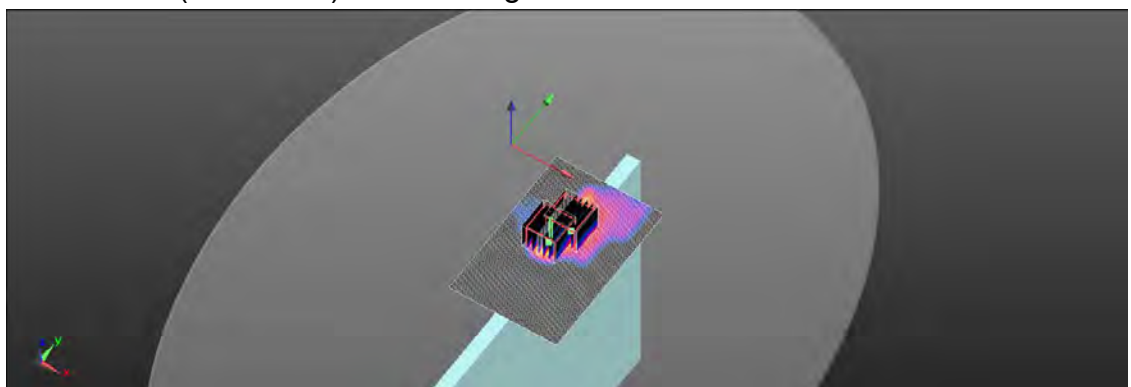
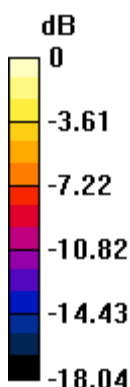
Peak SAR (extrapolated) = 2.81 W/kg

SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.122 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

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

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



0 dB = 1.13 W/kg = 0.55 dBW/kg

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Date: 2022/7/2

ID: 015

Report No. :TESA2205000114E5

WLAN 802.11ac(80M) 5.3G_Body_Top Tilt_CH 58_ChainA_0mm

Communication System: WLAN; Frequency: 5290 MHz;Duty Cycle: 1:1.006

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.767 \text{ S/m}$; $\epsilon_r = 36.105$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.927 W/kg

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

Reference Value = 1.296 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 0.500 W/kg; SAR(10 g) = 0.145 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 1.15 W/kg

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

Reference Value = 1.296 V/m; Power Drift = 0.17 dB

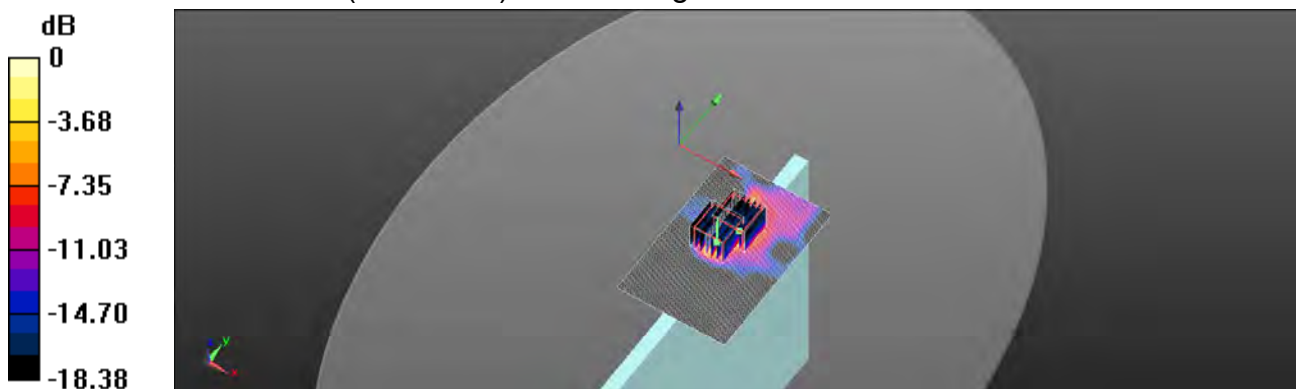
Peak SAR (extrapolated) = 2.78 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.121 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 49%

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Date: 2022/7/3

ID: 016

Report No. :TESA2205000114E5

WLAN 802.11ac(160M) 5.6G_Body_Top Tilt_CH 114_ChainA_0mm

Communication System: WLAN; Frequency: 5570 MHz;Duty Cycle: 1:1.009

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.052 \text{ S/m}$; $\epsilon_r = 35.758$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.16 W/kg

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

Reference Value = 5.289 V/m; Power Drift =0.17 dB

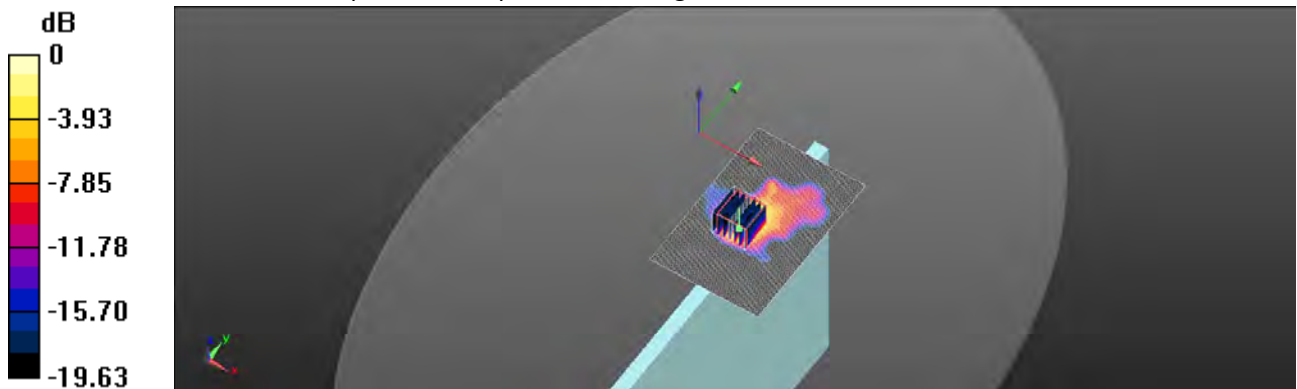
Peak SAR (extrapolated) = 2.43 W/kg

SAR(1 g) = 0.555 W/kg; SAR(10 g) = 0.166 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47%

Maximum value of SAR (measured) = 1.32 W/kg



0 dB = 1.32 W/kg = 1.21 dBW/kg

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Date: 2022/7/4

ID: 017

Report No. :TESA2205000114E5

WLAN 802.11ac(80M) 5.8G_Body_Top Tilt_CH 155_ChainA_0mm

Communication System: WLAN; Frequency: 5775 MHz;Duty Cycle: 1:1.006

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.265 \text{ S/m}$; $\epsilon_r = 35.558$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.04 W/kg

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

Reference Value = 1.402 V/m; Power Drift = 0.12 dB

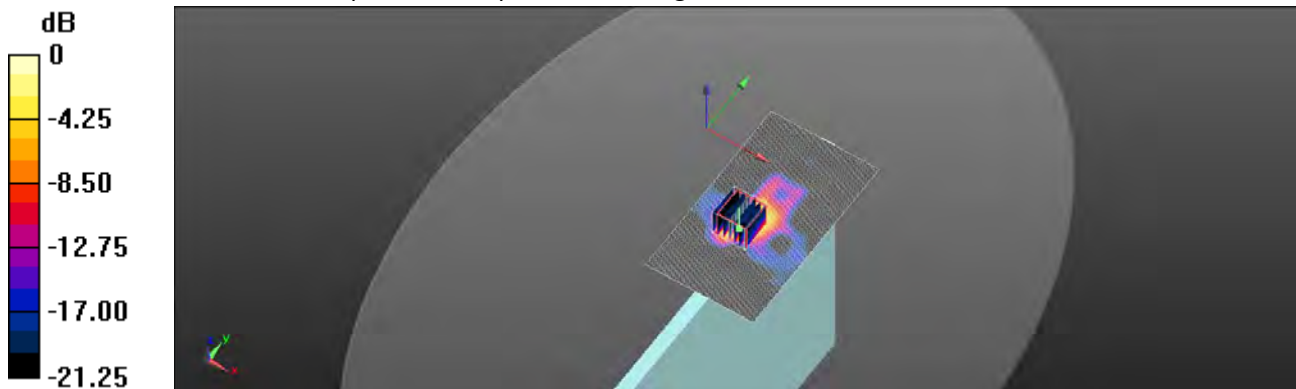
Peak SAR (extrapolated) = 5.88 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.277 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 45.9%

Maximum value of SAR (measured) = 2.47 W/kg



0 dB = 2.47 W/kg = 3.92 dBW/kg

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Date: 2022/7/1

ID: 018

Report No. :TESA2205000114E5

WLAN 802.11b_Body_Back Surface_CH 6_ChainB_0mm

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1.010

Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.795 \text{ S/m}$; $\epsilon_r = 39.411$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x111x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.47 W/kg
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.468 V/m ; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.23 W/kg
SAR(1 g) = 0.756 W/kg ; SAR(10 g) = 0.306 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 39.9%

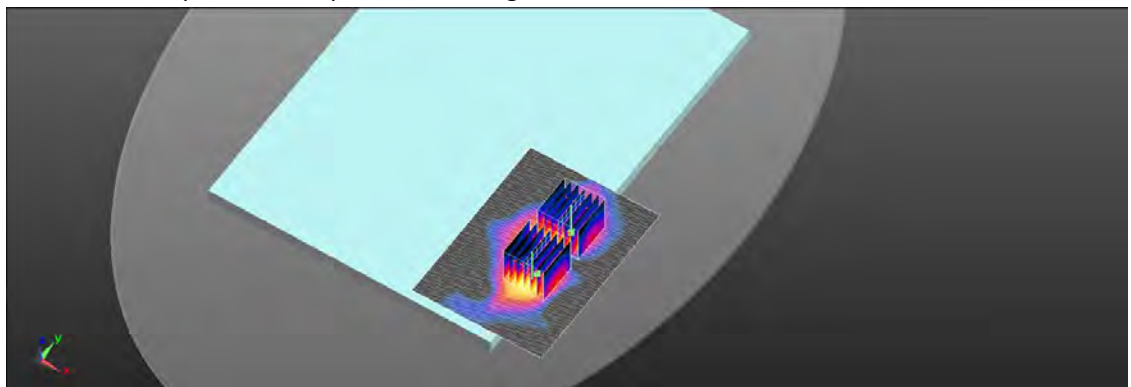
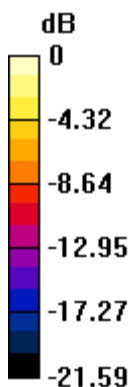
Maximum value of SAR (measured) = 1.33 W/kg
Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.468 V/m ; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.10 W/kg
SAR(1 g) = 0.760 W/kg ; SAR(10 g) = 0.305 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 42.1%

Maximum value of SAR (measured) = 1.38 W/kg

 $0 \text{ dB} = 1.38 \text{ W/kg} = 1.39 \text{ dBW/kg}$

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Date: 2022/7/2

ID: 019

Report No. :TESA2205000114E5

WLAN 802.11ac(160M) 5.2G_Body_Top Edge_CH 50_ChainB_0mm

Communication System: WLAN; Frequency: 5250 MHz;Duty Cycle: 1:1.009

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.726 \text{ S/m}$; $\epsilon_r = 34.823$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.75 W/kg

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

Reference Value = 2.354 V/m; Power Drift = 0.11 dB

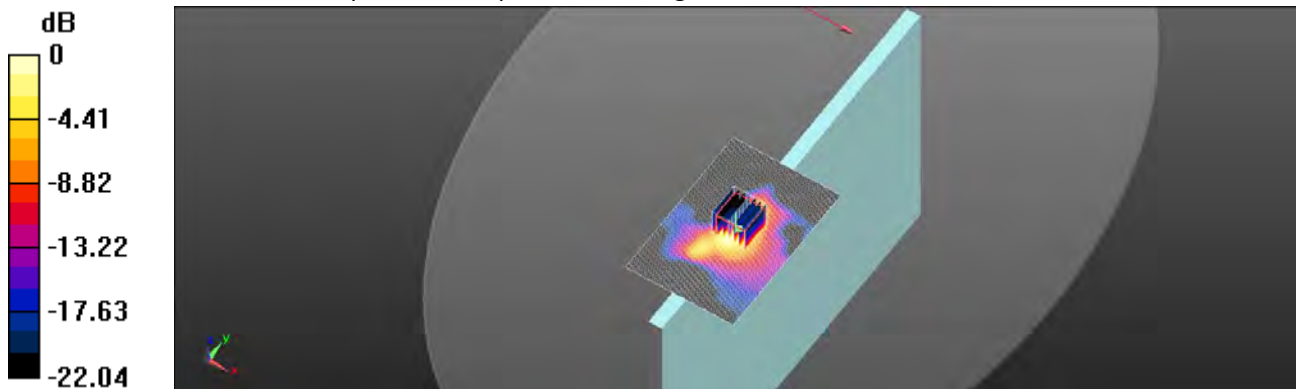
Peak SAR (extrapolated) = 3.48 W/kg

SAR(1 g) = 0.858 W/kg; SAR(10 g) = 0.278 W/kg

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

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

Maximum value of SAR (measured) = 1.74 W/kg



0 dB = 1.74 W/kg = 2.39 dBW/kg

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Date: 2022/7/2

ID: 020

Report No. :TESA2205000114E5

WLAN 802.11ac(80M) 5.3G_Body_Top Edge_CH 58_ChainB_0mm

Communication System: WLAN; Frequency: 5290 MHz;Duty Cycle: 1:1.006

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.767 \text{ S/m}$; $\epsilon_r = 36.105$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.75 W/kg

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

Reference Value = 5.546 V/m; Power Drift =0.18 dB

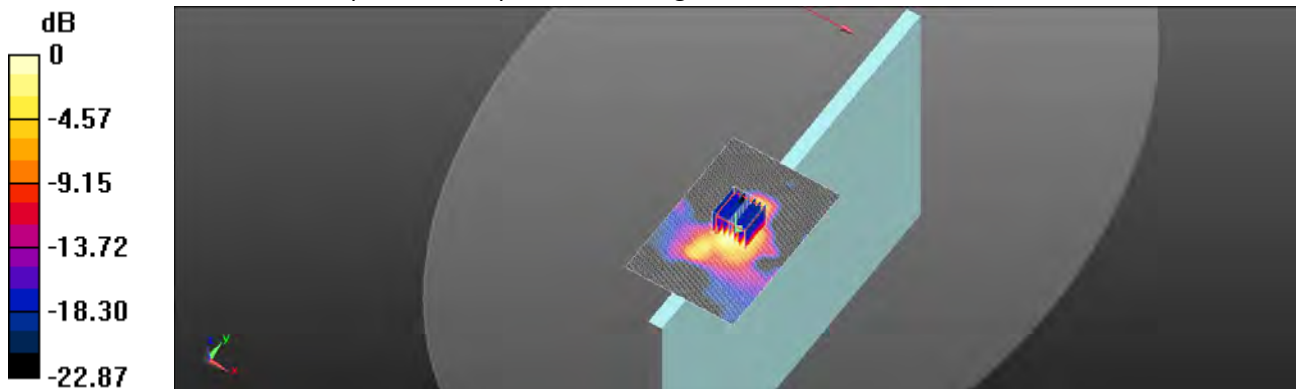
Peak SAR (extrapolated) = 2.82 W/kg

SAR(1 g) = 0.800 W/kg; SAR(10 g) = 0.262 W/kg

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

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

Maximum value of SAR (measured) = 1.71 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

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Date: 2022/7/3

ID: 021

Report No. :TESA2205000114E5

WLAN 802.11ac(160M) 5.6G_Body_Top Edge_CH 114_ChainB_0mm

Communication System: WLAN; Frequency: 5570 MHz;Duty Cycle: 1:1.009

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.052 \text{ S/m}$; $\epsilon_r = 35.758$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.65 W/kg

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

Reference Value = 3.182 V/m; Power Drift = 0.16 dB

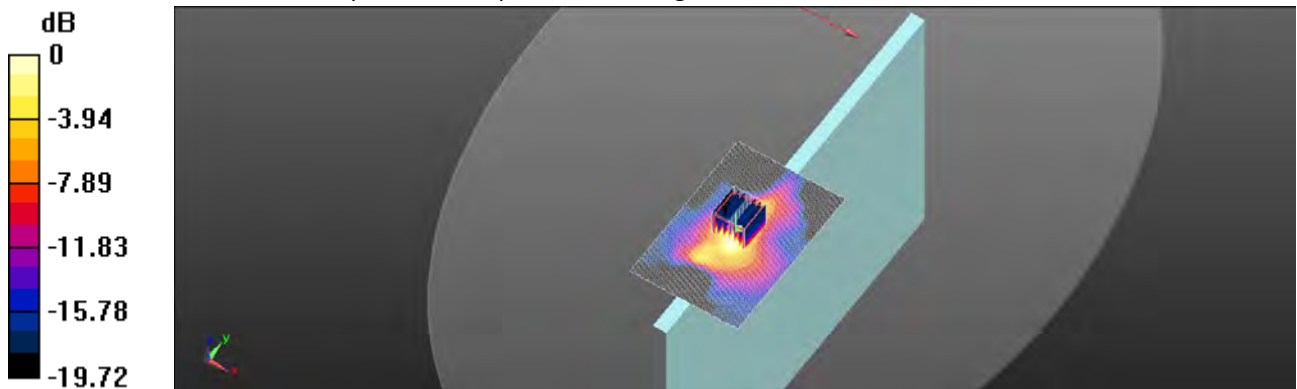
Peak SAR (extrapolated) = 3.43 W/kg

SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.290 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.89 dBW/kg

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Date: 2022/7/4

ID: 022

Report No. :TESA2205000114E5

WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_ChainB_0mm

Communication System: WLAN; Frequency: 5775 MHz;Duty Cycle: 1:1.006

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.265 \text{ S/m}$; $\epsilon_r = 35.558$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.87 W/kg

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

Reference Value = 3.427 V/m; Power Drift = 0.15 dB

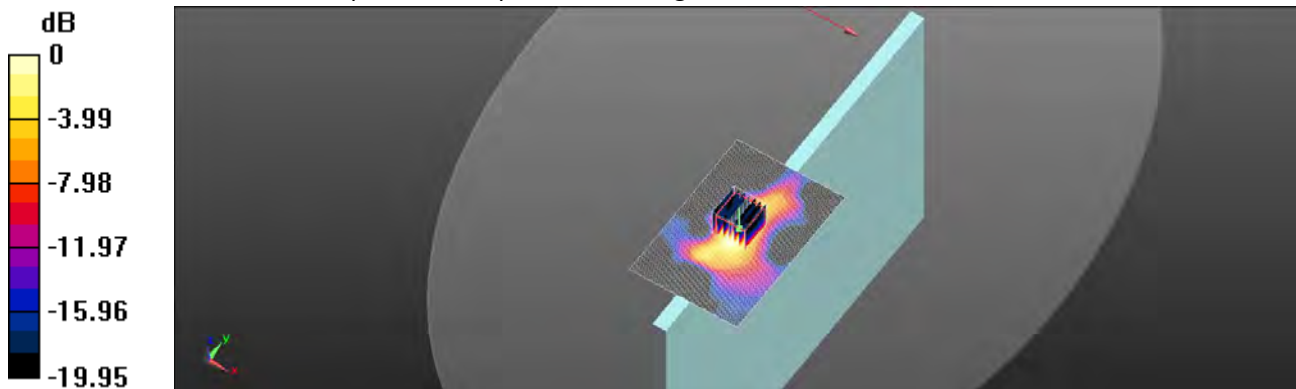
Peak SAR (extrapolated) = 4.20 W/kg

SAR(1 g) = 0.909 W/kg; SAR(10 g) = 0.321 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 1.76 W/kg



0 dB = 1.76 W/kg = 2.45 dBW/kg

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ID: 023

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_ChainA
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface,0.00	6.2	5.533	35.298

Hardware Setup

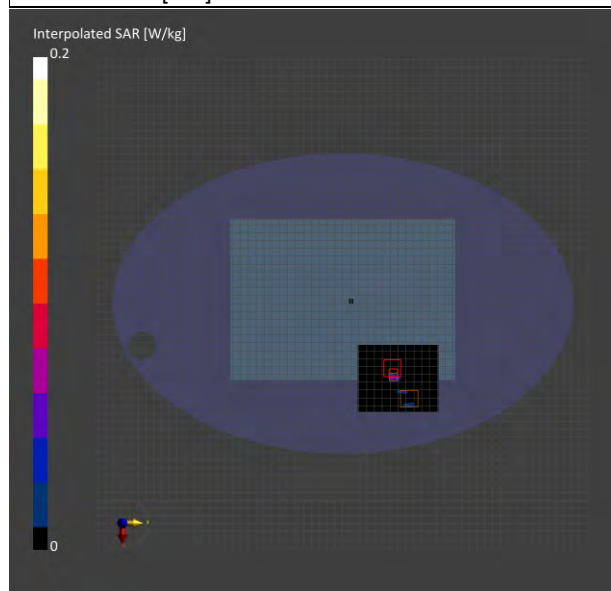
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	2.2 x 2.2 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.019	0.011
psSAR8g [W/kg]	0.003	0.002
psSAR10g [W/kg]	0.003	0.002
psPDab (4.0cm2, sq) [W/m2]		0.039
Power Drift [dB]	0.11	0.15
M2/M1 [%]		94.3
Dist 3dB Peak [mm]		1.3



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ID: 024

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_ChainA
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface,0.00	6.2	5.908	34.894

Hardware Setup

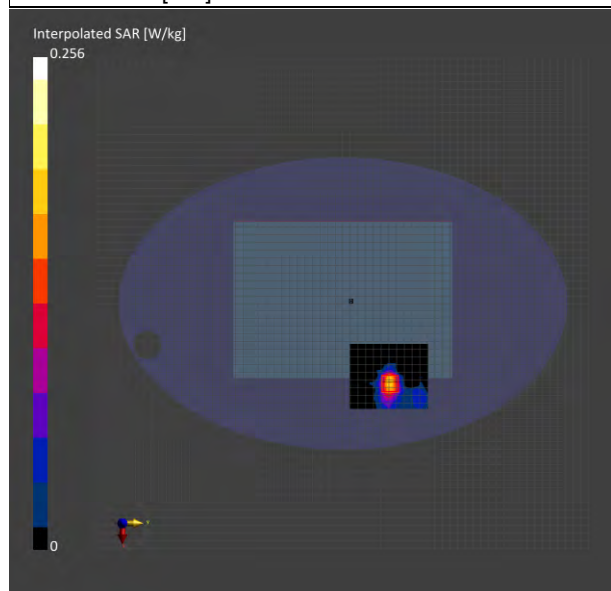
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.057	0.046
psSAR8g [W/kg]	0.025	0.017
psSAR10g [W/kg]	0.022	0.015
psPDab (4.0cm2, sq) [W/m2]		0.347
Power Drift [dB]	0.07	0.08
M2/M1 [%]		67.7
Dist 3dB Peak [mm]		6.7



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ID: 025

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-6,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface,0.00	6.2	6.101	34.684

Hardware Setup

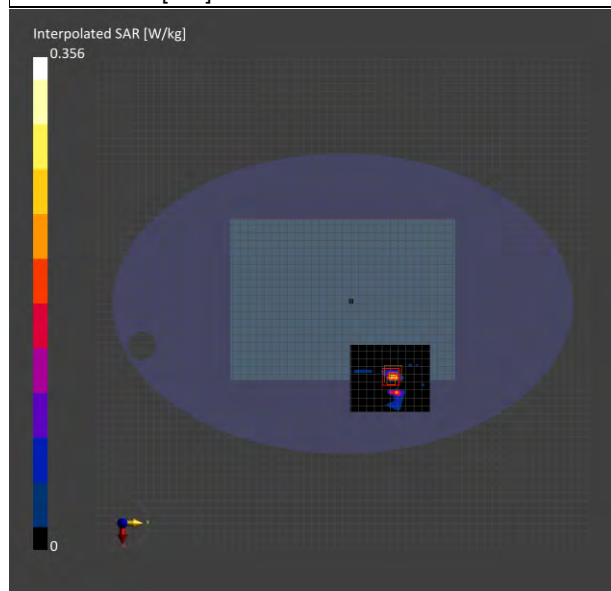
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.053	0.043
psSAR8g [W/kg]	0.012	0.014
psSAR10g [W/kg]	0.010	0.012
psPDab (4.0cm2, sq) [W/m2]		0.278
Power Drift [dB]	0.17	0.14
M2/M1 [%]		73.5
Dist 3dB Peak [mm]		2.2



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ID: 026

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_ChainA

Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface,0.00	6.2	6.283	34.498

Hardware Setup

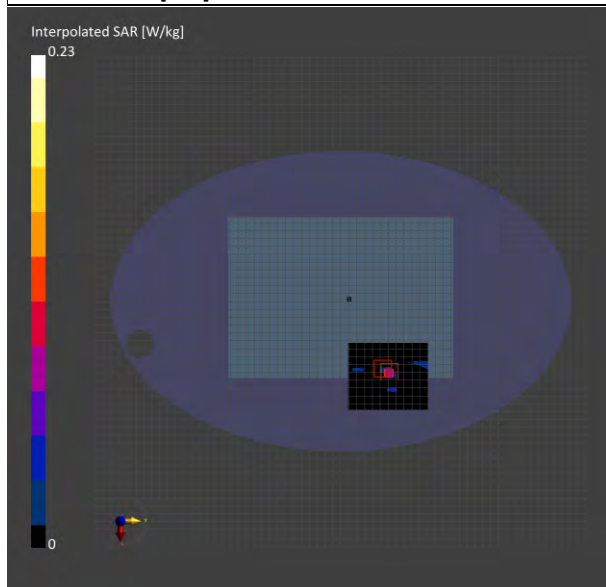
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.033	0.013
psSAR8g [W/kg]	0.006	0.001
psSAR10g [W/kg]	0.005	0.001
psPDab (4.0cm2, sq) [W/m2]		0.025
Power Drift [dB]	0.12	0.16
M2/M1 [%]		85.3
Dist 3dB Peak [mm]		1.0



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ID: 027

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_ChainA
Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface,0.00	6.14	6.661	34.132

Hardware Setup

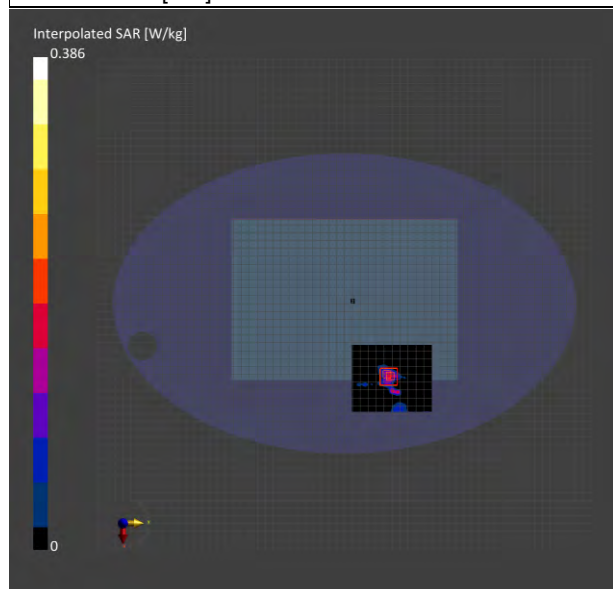
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.038	0.045
psSAR8g [W/kg]	0.013	0.014
psSAR10g [W/kg]	0.011	0.011
psPDab (4.0cm2, sq) [W/m2]		0.279
Power Drift [dB]	0.09	0.11
M2/M1 [%]		72.5
Dist 3dB Peak [mm]		2.7



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ID: 028

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_ChainB
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface,0.00	6.2	5.719	35.07

Hardware Setup

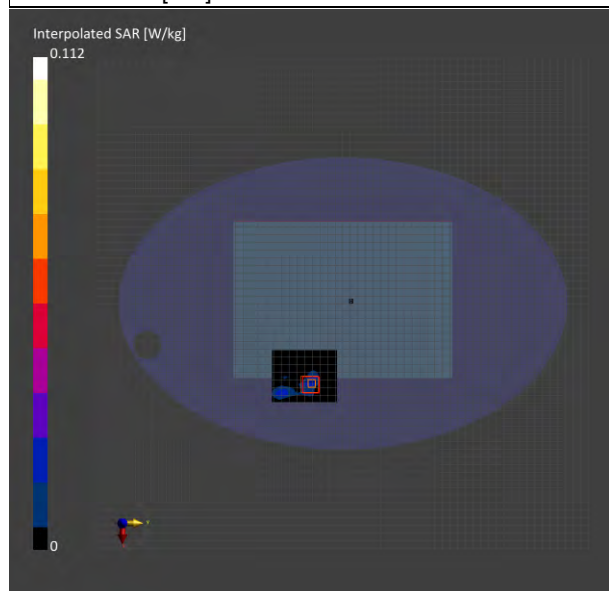
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.018	0.020
psSAR8g [W/kg]	0.006	0.007
psSAR10g [W/kg]	0.006	0.006
psPDab (4.0cm2, sq) [W/m2]		0.143
Power Drift [dB]	0.16	0.19
M2/M1 [%]		66.3
Dist 3dB Peak [mm]		> 11.0



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ID: 029

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_ChainB
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface,0.00	6.2	5.908	34.894

Hardware Setup

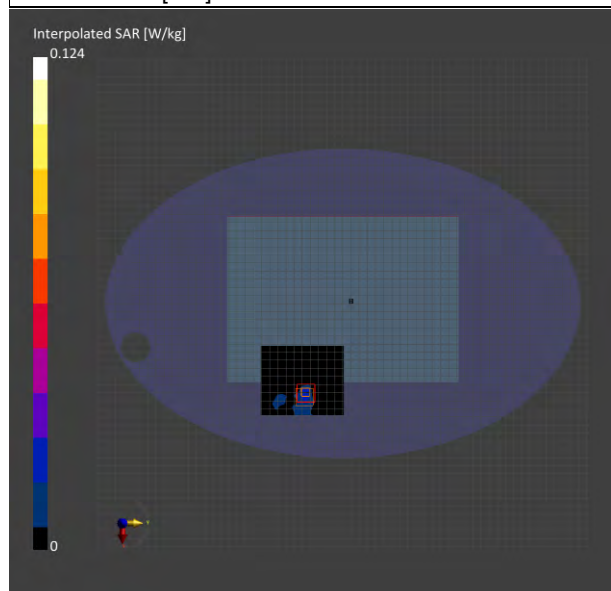
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.019	0.024
psSAR8g [W/kg]	0.007	0.010
psSAR10g [W/kg]	0.007	0.009
psPDab (4.0cm2, sq) [W/m2]		0.196
Power Drift [dB]	0.14	0.08
M2/M1 [%]		65.2
Dist 3dB Peak [mm]		> 11.0



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ID: 030

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-6,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface,0.00	6.2	6.101	34.684

Hardware Setup

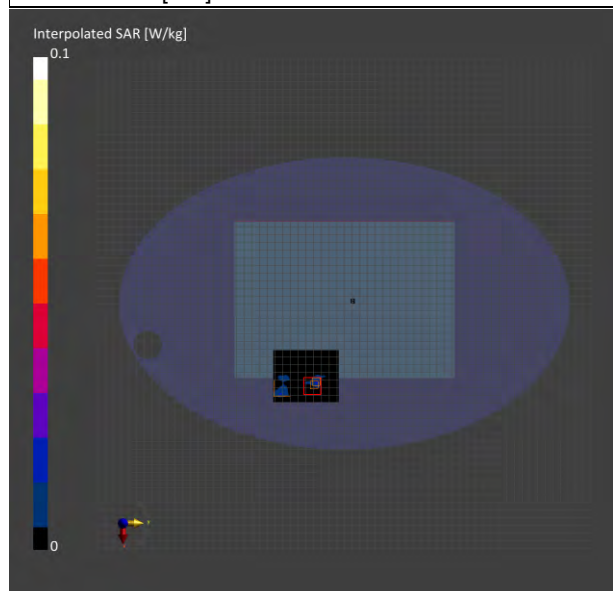
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.013	0.006
psSAR8g [W/kg]	0.004	0.001
psSAR10g [W/kg]	0.003	0.001
psPDab (4.0cm2, sq) [W/m2]		0.024
Power Drift [dB]	0.07	0.09
M2/M1 [%]		66.0
Dist 3dB Peak [mm]		> 11.0



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ID: 031

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-7,

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

Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface,0.00	6.2	6.283	34.498

Hardware Setup

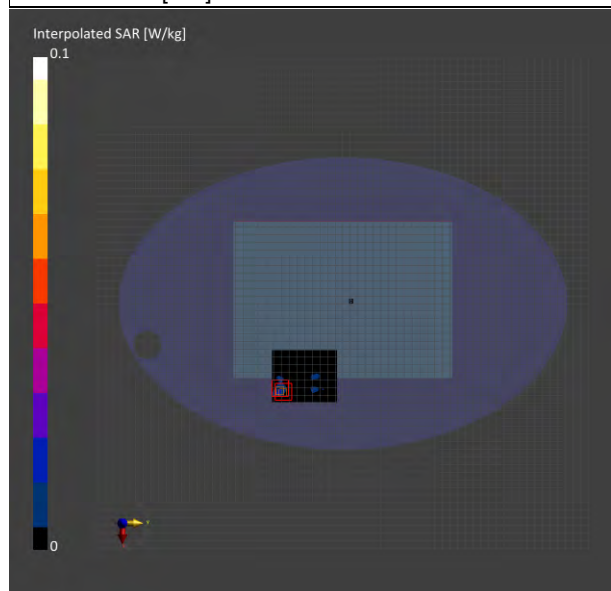
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.014	0.008
psSAR8g [W/kg]	0.004	0.003
psSAR10g [W/kg]	0.004	0.002
psPDab (4.0cm2, sq) [W/m2]		0.057
Power Drift [dB]	0.14	0.12
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		> 11.0



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ID: 032

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_ChainB
Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface,0.00	6.14	6.661	34.132

Hardware Setup

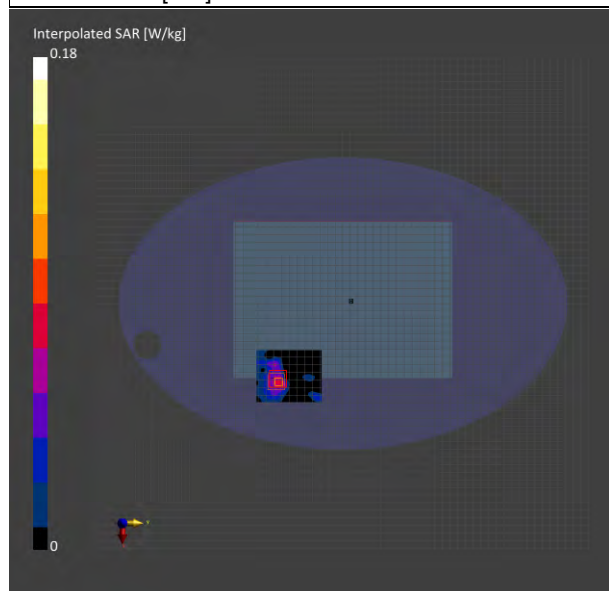
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.038	0.030
psSAR8g [W/kg]	0.015	0.011
psSAR10g [W/kg]	0.014	0.010
psPDab (4.0cm2, sq) [W/m2]		0.222
Power Drift [dB]	0.09	0.07
M2/M1 [%]		63.4
Dist 3dB Peak [mm]		> 11.0



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ID: 033

Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-5,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Tilt, 0.00	6.2	5.533	35.298

Hardware Setup

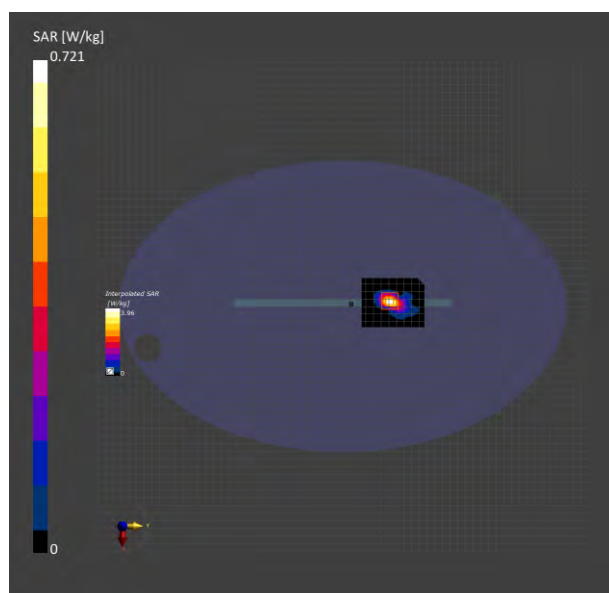
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.685	0.734
psSAR8g [W/kg]	0.231	0.230
psSAR10g [W/kg]	0.200	0.197
psPDab (4.0cm2, sq) [W/m2]		4.61
Power Drift [dB]	0.13	0.11
M2/M1 [%]		56.0
Dist 3dB Peak [mm]		4.8



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ID: 034

Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_ChainA

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Tilt, 0.00	6.2	5.908	34.894

Hardware Setup

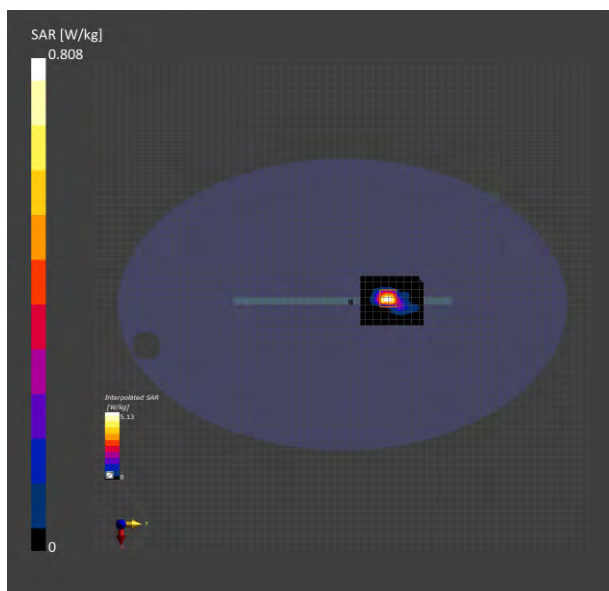
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.1 x 3.1 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.884	0.899
psSAR8g [W/kg]	0.296	0.278
psSAR10g [W/kg]	0.255	0.239
psPDab (4.0cm2, sq) [W/m2]		5.56
Power Drift [dB]	0.12	-0.07
M2/M1 [%]		56.0
Dist 3dB Peak [mm]		4.3



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ID: 035

Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-6,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Tilt, 0.00	6.2	6.101	34.684

Hardware Setup

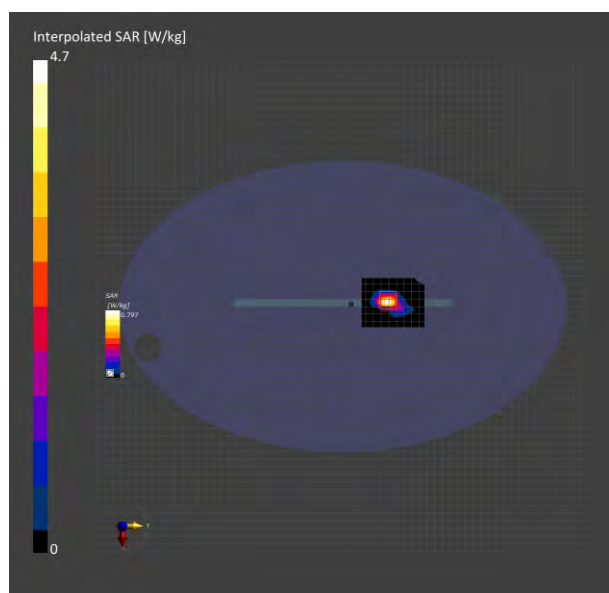
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.1 x 3.1 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.883	0.805
psSAR8g [W/kg]	0.284	0.252
psSAR10g [W/kg]	0.245	0.215
psPDab (4.0cm2, sq) [W/m2]		5.04
Power Drift [dB]	0.05	-0.12
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		3.8



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ID: 036

Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_ChainA

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Tilt, 0.00	6.2	6.283	34.498

Hardware Setup

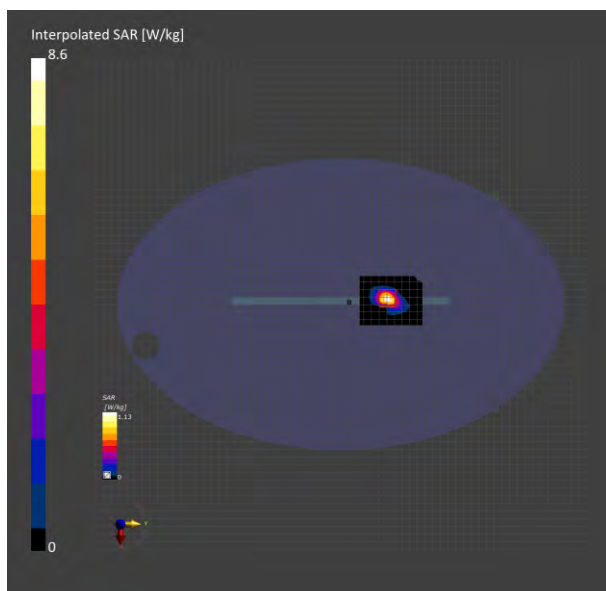
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.924	1.01
psSAR8g [W/kg]	0.317	0.314
psSAR10g [W/kg]	0.274	0.269
psPDab (4.0cm2, sq) [W/m2]		6.28
Power Drift [dB]	0.12	0.17
M2/M1 [%]		48.6
Dist 3dB Peak [mm]		4.3



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ID: 037

Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-8,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Tilt, 0.00	6.14	6.661	34.132

Hardware Setup

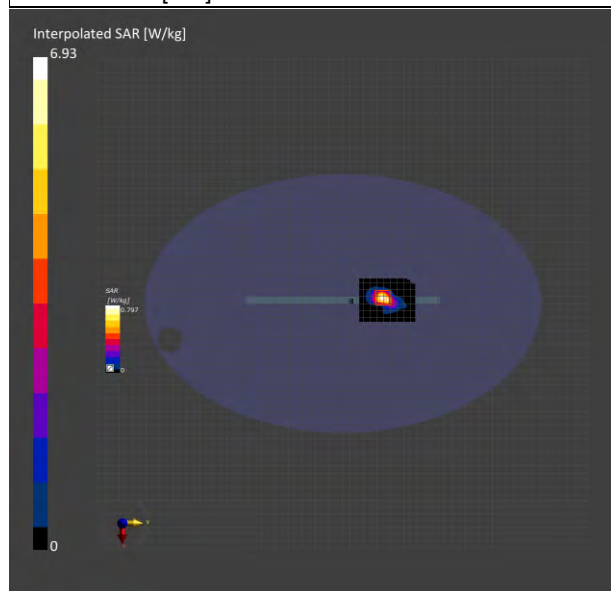
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.946	1.06
psSAR8g [W/kg]	0.343	0.330
psSAR10g [W/kg]	0.299	0.282
psPDab (4.0cm2, sq) [W/m2]		6.60
Power Drift [dB]	0.13	0.05
M2/M1 [%]		46.9
Dist 3dB Peak [mm]		4.1



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Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-5,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Tilt, 0.00	6.2	5.533	35.298

Hardware Setup

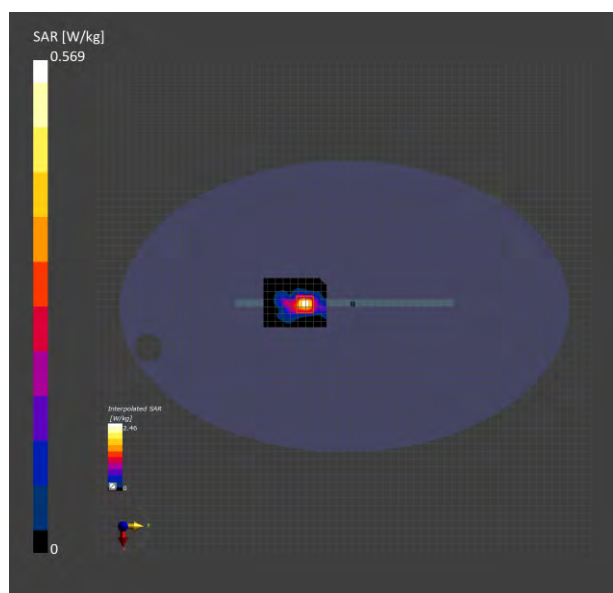
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.533	0.569
psSAR8g [W/kg]	0.198	0.212
psSAR10g [W/kg]	0.174	0.186
psPDab (4.0cm2, sq) [W/m2]		4.24
Power Drift [dB]	0.05	-0.04
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		6.1



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Report No. :TESA2205000114E5

Measurement Report for Device, Top Edge, U-NII-5,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6.2	5.719	35.07

Hardware Setup

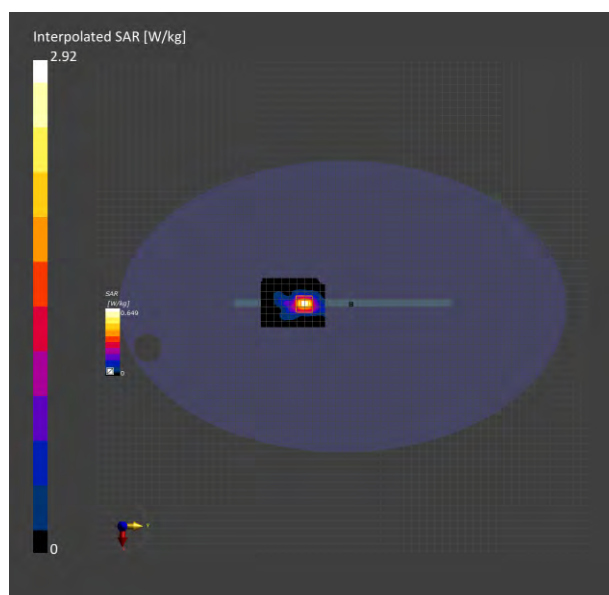
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.675	0.648
psSAR8g [W/kg]	0.244	0.238
psSAR10g [W/kg]	0.214	0.208
psPDab (4.0cm2, sq) [W/m2]		4.76
Power Drift [dB]	-0.15	-0.05
M2/M1 [%]		55.3
Dist 3dB Peak [mm]		7.3



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Report No. :TESA2205000114E5

Measurement Report for Device, Top Edge, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_ChainB

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6.2	6.101	34.684

Hardware Setup

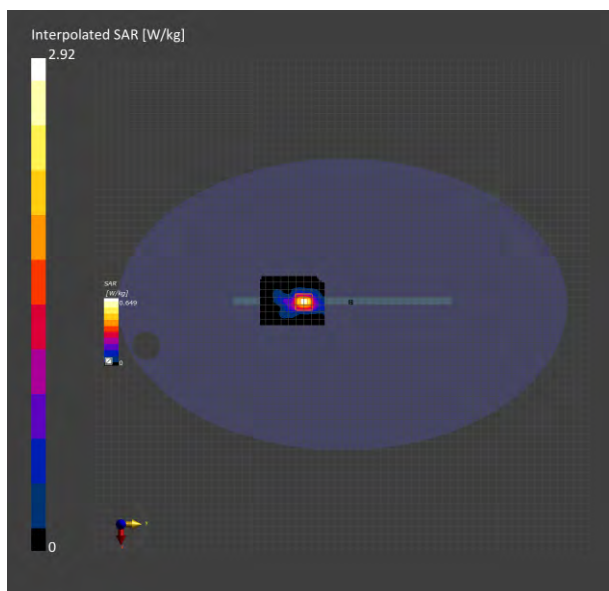
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.715	0.693
psSAR8g [W/kg]	0.264	0.252
psSAR10g [W/kg]	0.231	0.221
psPDab (4.0cm2, sq) [W/m2]		5.04
Power Drift [dB]	-0.05	-0.15
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		6.1



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Report No. :TESA2205000114E5

Measurement Report for Device, Top Edge, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_ChainB
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6.2	6.283	34.498

Hardware Setup

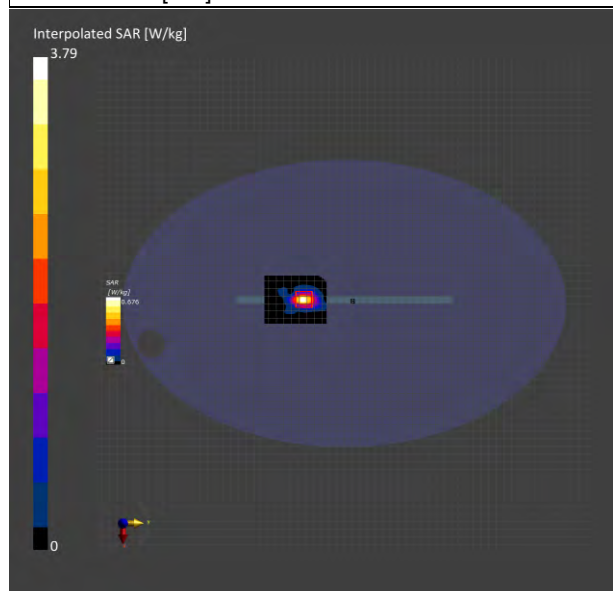
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.745	0.731
psSAR8g [W/kg]	0.256	0.254
psSAR10g [W/kg]	0.224	0.220
psPDab (4.0cm2, sq) [W/m2]		5.08
Power Drift [dB]	-0.16	-0.18
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		6.7



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ID: 042

Report No. :TESA2205000114E5

Measurement Report for Device, Top Edge, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_ChainB
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	6.14	6.661	34.132

Hardware Setup

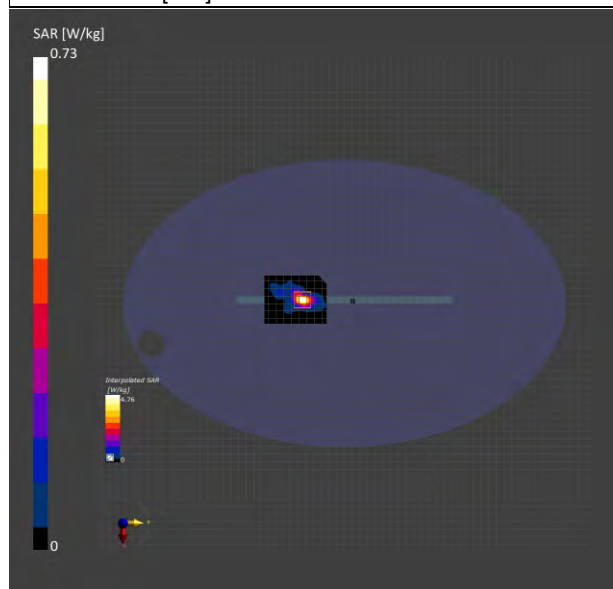
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.834	0.824
psSAR8g [W/kg]	0.273	0.268
psSAR10g [W/kg]	0.237	0.232
psPDab (4.0cm2, sq) [W/m2]		5.36
Power Drift [dB]	0.11	-0.15
M2/M1 [%]		51.3
Dist 3dB Peak [mm]		5.5



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Date: 2022/7/7

ID: 043

Report No. : TESA2205000114E5

WLAN 802.11b_Body_Bottom Surface_CH 1_ChainA_0mm

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1.01

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.759$ S/m; $\epsilon_r = 39.059$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0933 W/kg

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

Reference Value = 1.286 V/m; Power Drift = 0.16 dB

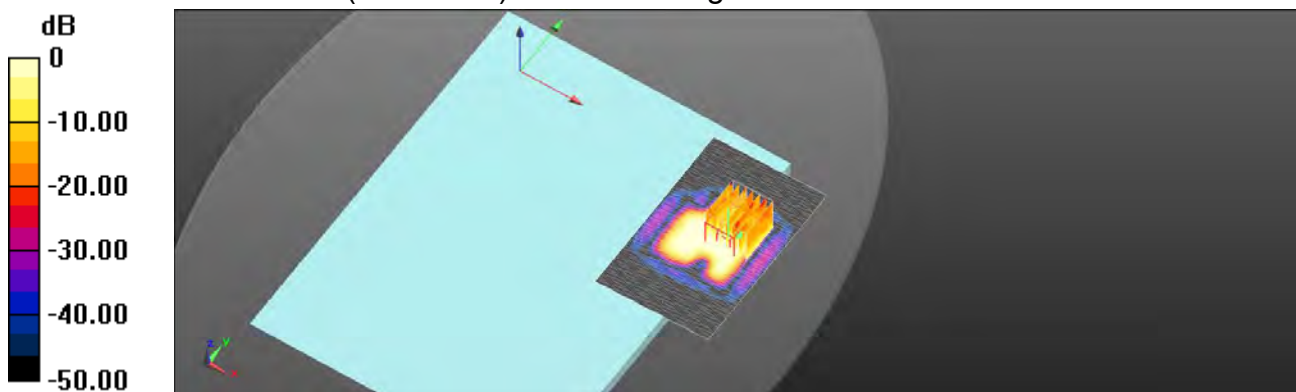
Peak SAR (extrapolated) = 0.0440 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.011 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.5%

Maximum value of SAR (measured) = 0.0325 W/kg



0 dB = 0.0325 W/kg = -14.88 dBW/kg

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Date: 2022/7/7

ID: 044

Report No. : TESA2205000114E5

Bluetooth(GFSK)_Body_Bottom Surface_CH 78_ChainA_0mm

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.295

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.826 \text{ S/m}$; $\epsilon_r = 38.974$; $\rho = 10000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.00364 W/kg

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

Reference Value = 0.6540 V/m; Power Drift = 0.15 dB

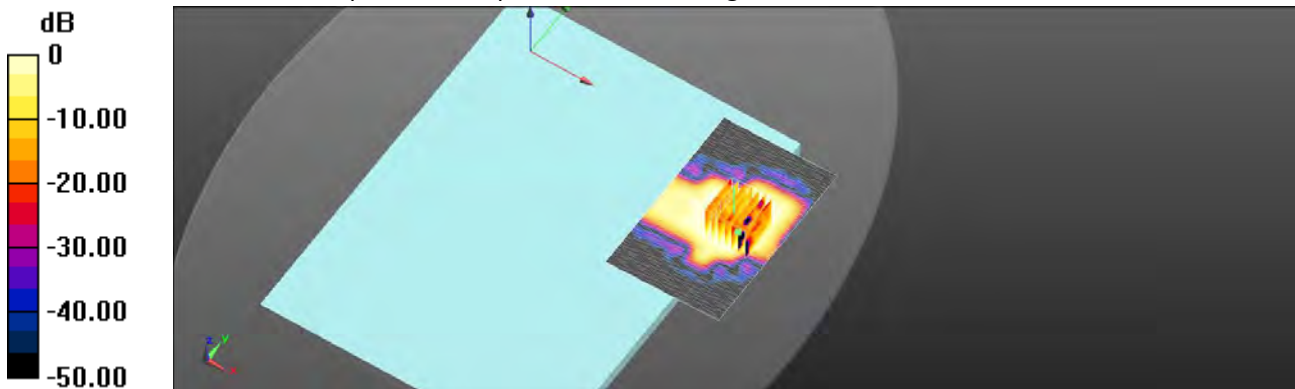
Peak SAR (extrapolated) = 0.00449 W/kg

SAR(1 g) = 0.0034 W/kg; SAR(10 g) = 0.00251 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 0.00347 W/kg



0 dB = 0.00347 W/kg = -24.60 dBW/kg

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Date: 2022/7/8

ID: 045

Report No. : TESA2205000114E5

WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_ChainA_0mm

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:1.007

Medium parameters used: $f = 5270$ MHz; $\sigma = 4.706$ S/m; $\epsilon_r = 35.69$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.258 W/kg

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

Reference Value = 1.834 V/m; Power Drift = 0.08 dB

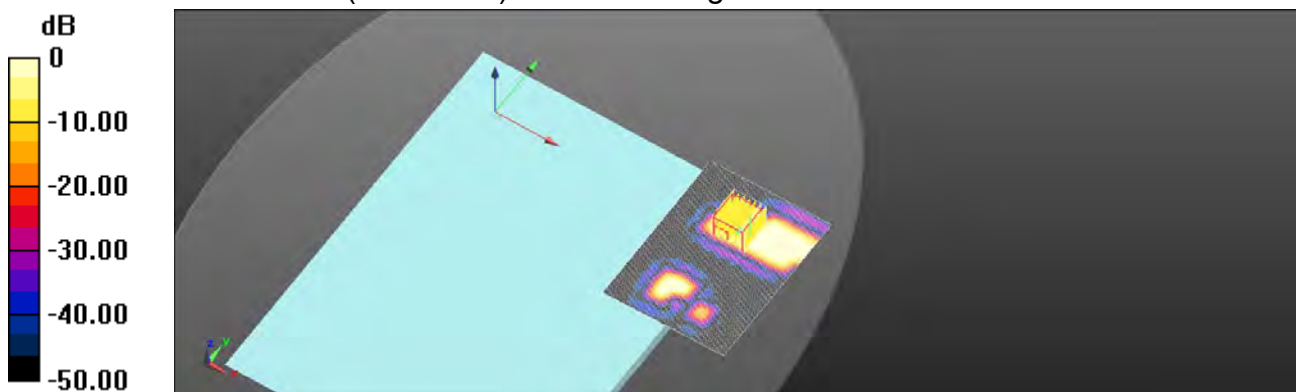
Peak SAR (extrapolated) = 0.274 W/kg

SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.00678 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 0.0791 W/kg



0 dB = 0.0791 W/kg = -11.02 dBW/kg

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Date: 2022/7/9

ID: 046

Report No. : TESA2205000114E5

WLAN 802.11ax(160M) 5.6G_Body_Bottom Surface_CH 114_ChainA_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.009

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.012 \text{ S/m}$; $\epsilon_r = 35.339$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.101 W/kg

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

Reference Value = 2.356 V/m; Power Drift = 0.01 dB

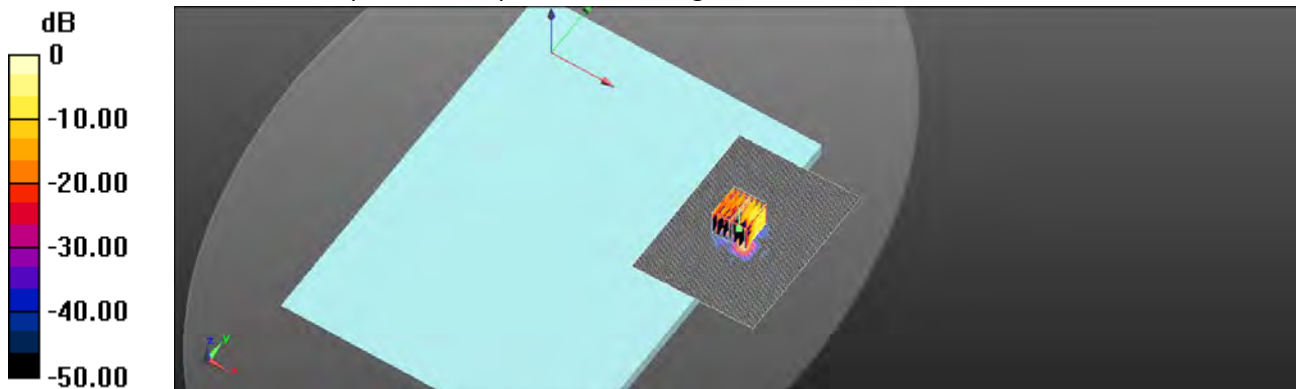
Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.016 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 36.6%

Maximum value of SAR (measured) = 0.108 W/kg



0 dB = 0.108 W/kg = -9.67 dBW/kg

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Date: 2022/7/10

ID: 047

Report No. : TESA2205000114E5

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_ChainA_0mm

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.006

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.224 \text{ S/m}$; $\epsilon_r = 35.099$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0762 W/kg

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

Reference Value = 1.615 V/m; Power Drift = -0.08 dB

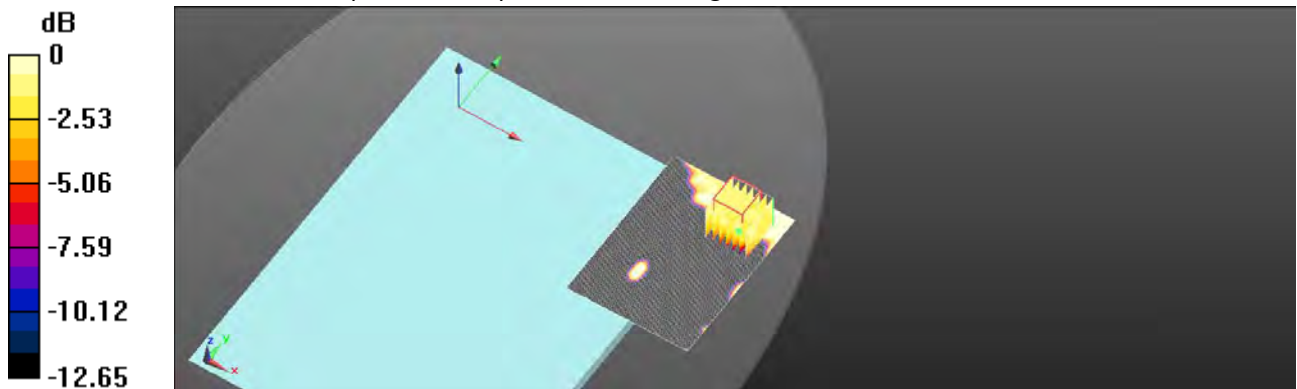
Peak SAR (extrapolated) = 0.0680 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.024 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 76.7%

Maximum value of SAR (measured) = 0.0356 W/kg



0 dB = 0.0356 W/kg = -14.48 dBW/kg

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Date: 2022/7/7

ID: 048

Report No. : TESA2205000114E5

WLAN 802.11b_Body_Bottom Surface_CH 11_ChainB_0mm

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.01

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.804 \text{ S/m}$; $\epsilon_r = 38.975$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C ; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x111x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

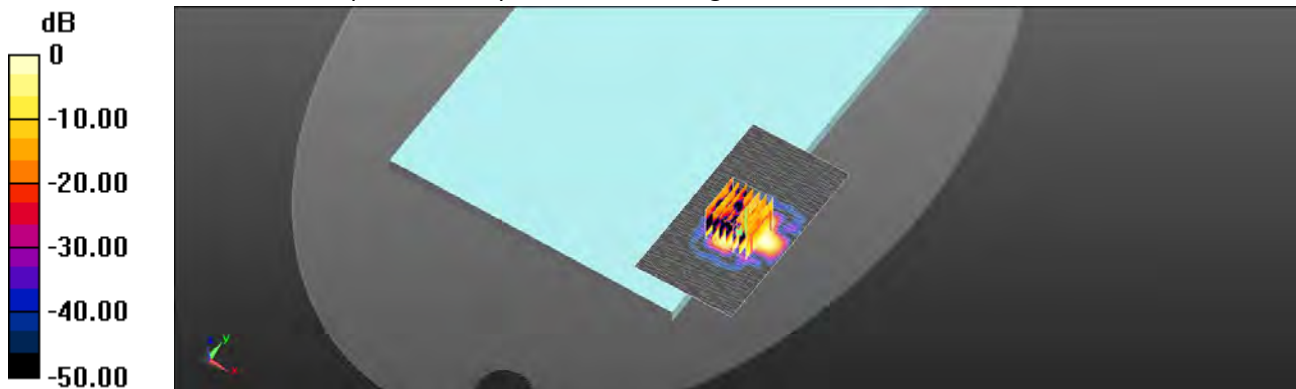
Maximum value of SAR (interpolated) = 0.0250 W/kg
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.358 V/m ; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.0300 W/kg
SAR(1 g) = 0.00901 W/kg ; SAR(10 g) = 0.00325 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 40.1%

Maximum value of SAR (measured) = 0.0143 W/kg

 $0 \text{ dB} = 0.0143 \text{ W/kg} = -18.44 \text{ dBW/kg}$

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Date: 2022/7/8

ID: 049

Report No. : TESA2205000114E5

WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_ChainB_0mm

Communication System: WLAN; Frequency: 5230 MHz; Duty Cycle: 1:1.007

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.667 \text{ S/m}$; $\epsilon_r = 35.721$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

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

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

Reference Value = 2.182 V/m; Power Drift = 0.13 dB

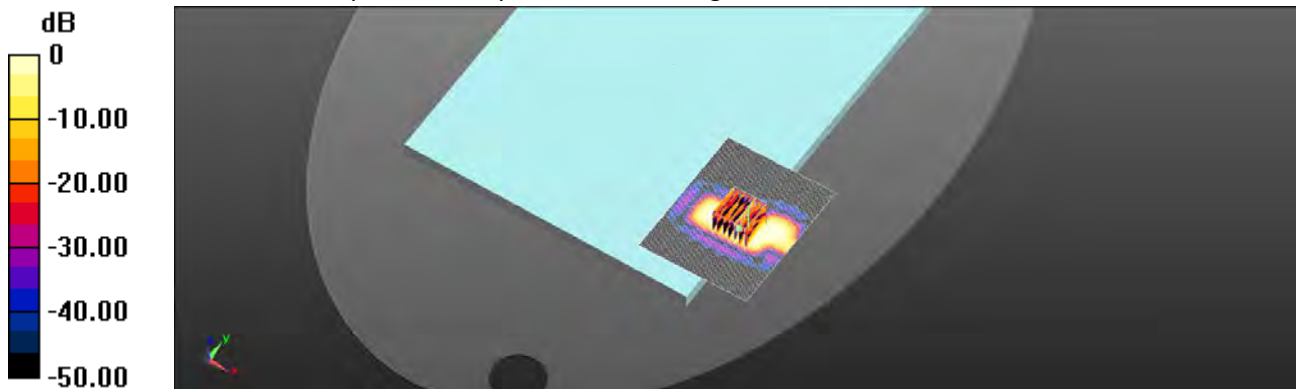
Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.015 W/kg

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

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

Maximum value of SAR (measured) = 0.0909 W/kg



0 dB = 0.0909 W/kg = -10.42 dBW/kg

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Date: 2022/7/8

ID: 050

Report No. : TESA2205000114E5

WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_ChainB_0mm

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:1.007

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.706 \text{ S/m}$; $\epsilon_r = 35.69$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.189 W/kg

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

Reference Value = 2.236 V/m; Power Drift = 0.15 dB

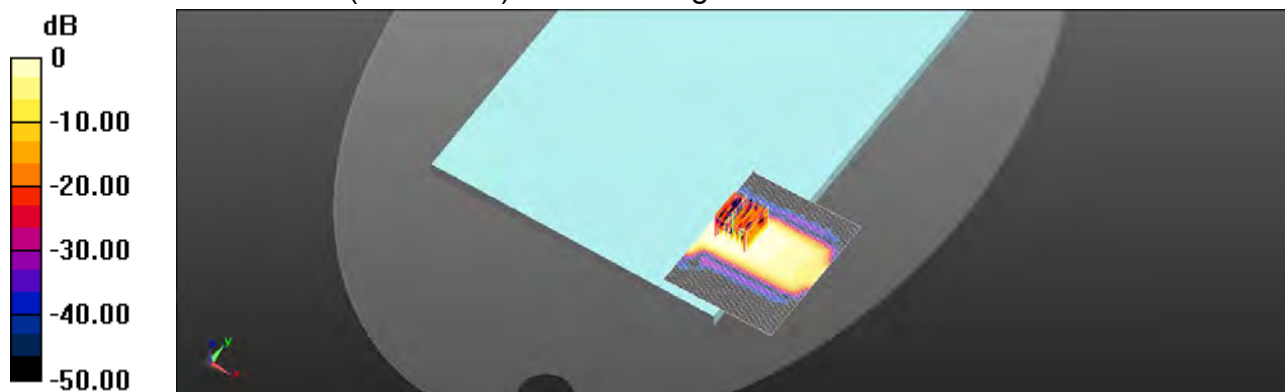
Peak SAR (extrapolated) = 0.309 W/kg

SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.024 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 0.121 W/kg



0 dB = 0.121 W/kg = -9.18 dBW/kg

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Date: 2022/7/9

ID: 051

Report No. : TESA2205000114E5

WLAN 802.11ax(160M) 5.6G_Body_Bottom Surface_CH 114_ChainB_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.009

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.012 \text{ S/m}$; $\epsilon_r = 35.339$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0405 W/kg

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

Reference Value = 3.356 V/m; Power Drift = 0.13 dB

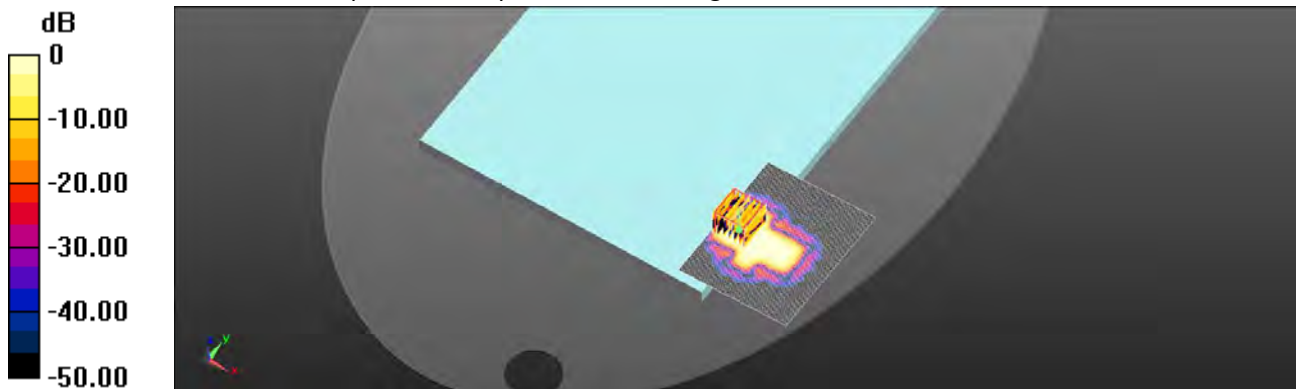
Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00563 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 46.1%

Maximum value of SAR (measured) = 0.0323 W/kg



0 dB = 0.0323 W/kg = -14.91 dBW/kg

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Date: 2022/7/10

ID: 052

Report No. : TESA2205000114E5

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_ChainB_0mm

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.006

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.224 \text{ S/m}$; $\epsilon_r = 35.099$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0944 W/kg

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

Reference Value = 1.583 V/m; Power Drift = 0.11 dB

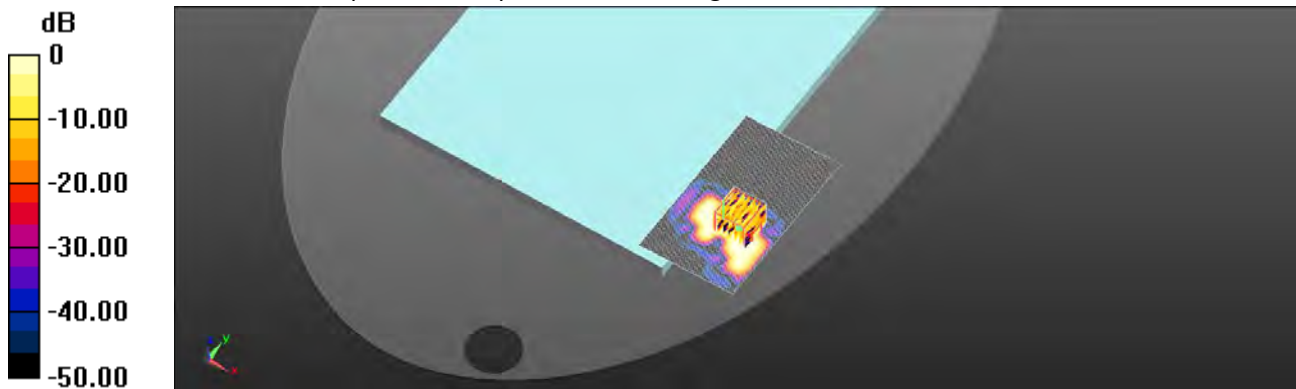
Peak SAR (extrapolated) = 0.122 W/kg

SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00477 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 43.1%

Maximum value of SAR (measured) = 0.0298 W/kg



0 dB = 0.0298 W/kg = -15.25 dBW/kg

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Date: 2022/7/7

ID: 053

Report No. :TESA2205000114E5

WLAN 802.11b_Body_Back Surface_CH 1_ChainA_0mm

Communication System: WLAN; Frequency: 2412 MHz;Duty Cycle: 1:1.010

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.759 \text{ S/m}$; $\epsilon_r = 39.059$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.90 W/kg

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

Reference Value = 3.254 V/m; Power Drift = 0.11 dB

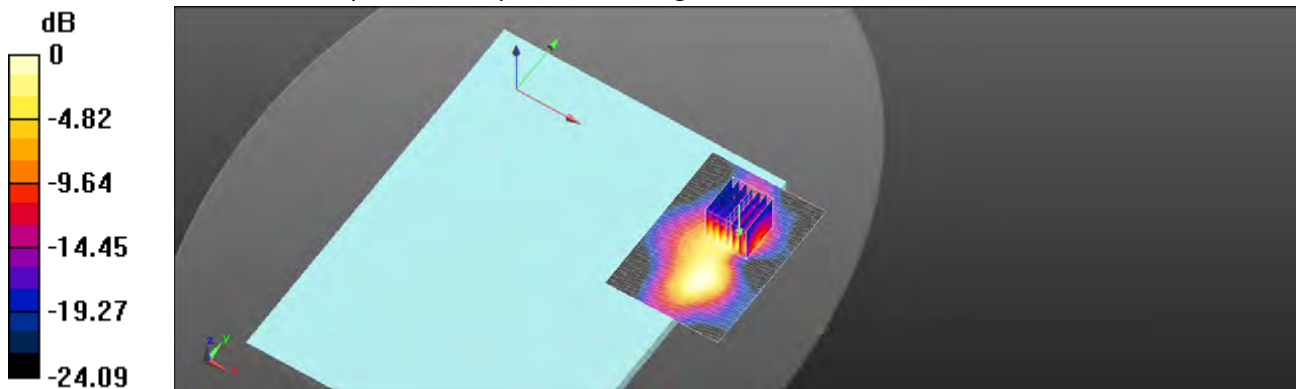
Peak SAR (extrapolated) = 3.07 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.414 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 43.1%

Maximum value of SAR (measured) = 1.75 W/kg



0 dB = 1.75 W/kg = 2.44 dBW/kg

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Date: 2022/7/7

ID: 054

Report No. :TESA2205000114E5

Bluetooth(GFSK)_Body_Back Surface_CH 78_ChainA_0mm

Communication System: Bluetooth; Frequency: 2480 MHz;Duty Cycle: 1:1.295

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.826 \text{ S/m}$; $\epsilon_r = 38.974$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.395 W/kg

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

Reference Value = 2.458 V/m; Power Drift = 0.01 dB

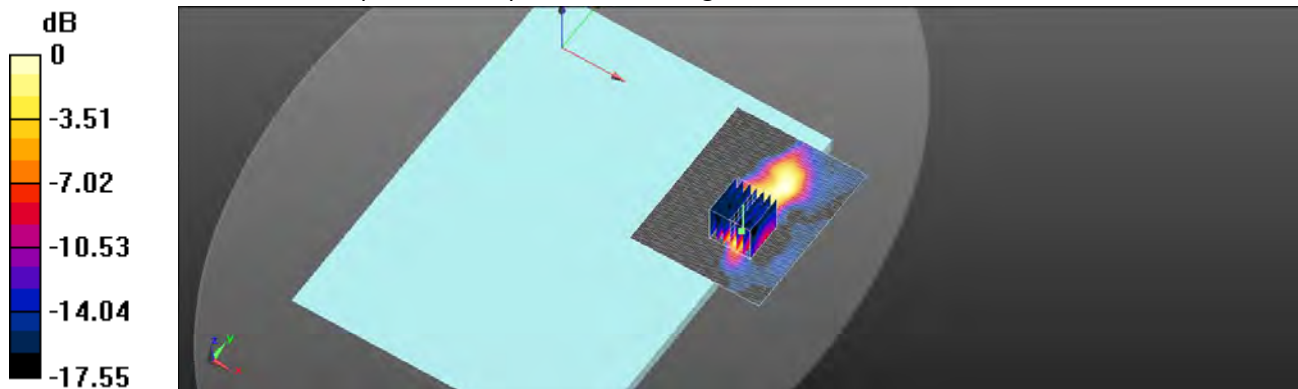
Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.063 W/kg

Smallest distance from peaks to all points 3 dB below = 6.5 mm

Ratio of SAR at M2 to SAR at M1 = 43.3%

Maximum value of SAR (measured) = 0.256 W/kg



0 dB = 0.256 W/kg = -5.92 dBW/kg

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Date: 2022/7/8

ID: 055

Report No. :TESA2205000114E5

WLAN 802.11ac(160M) 5.2G_Body_Top Tilt_CH 50_ChainA_0mm

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.009

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.689$ S/m; $\epsilon_r = 35.706$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.19 W/kg

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

Reference Value = 7.365 V/m; Power Drift = 0.11 dB

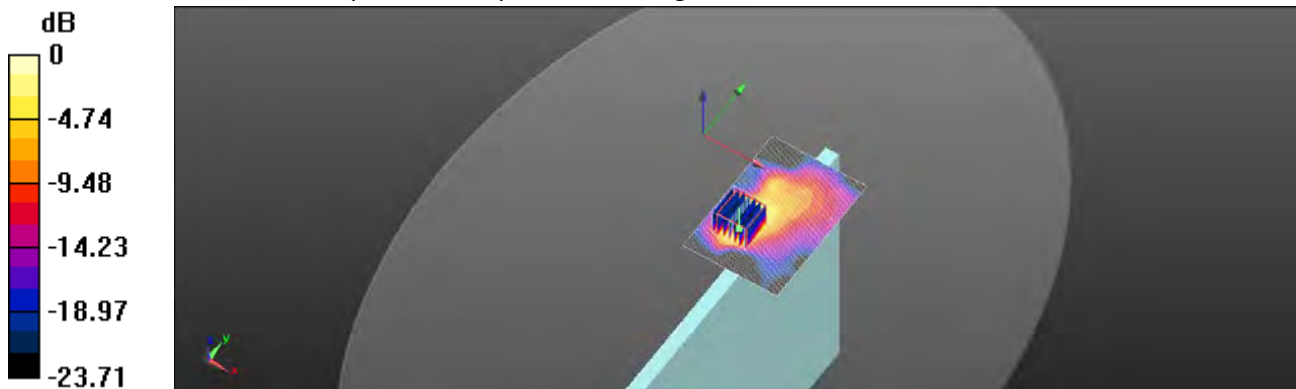
Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.182 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 49.2%

Maximum value of SAR (measured) = 1.46 W/kg



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Date: 2022/7/8

ID: 056

Report No. :TESA2205000114E5

WLAN 802.11ac(80M) 5.3G_Body_Top Tilt_CH 58_ChainA_0mm

Communication System: WLAN; Frequency: 5290 MHz;Duty Cycle: 1:1.006

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.731 \text{ S/m}$; $\epsilon_r = 35.664$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.736 W/kg

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

Reference Value = 6.325 V/m; Power Drift = 0.01 dB

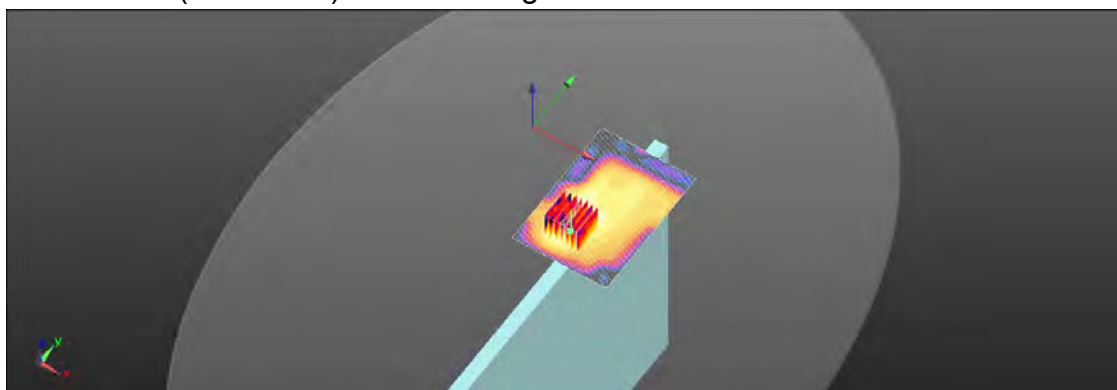
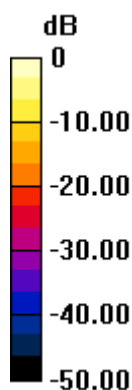
Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 0.674 W/kg; SAR(10 g) = 0.230 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 0.946 W/kg



0 dB = 0.946 W/kg = -0.24 dBW/kg

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Date: 2022/7/9

ID: 057

Report No. :TESA2205000114E5

WLAN 802.11ac(160M) 5.6G_Body_Top Tilt_CH 114_ChainA_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.009

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.012 \text{ S/m}$; $\epsilon_r = 35.339$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.49 W/kg

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

Reference Value = 3.587 V/m; Power Drift = 0.15 dB

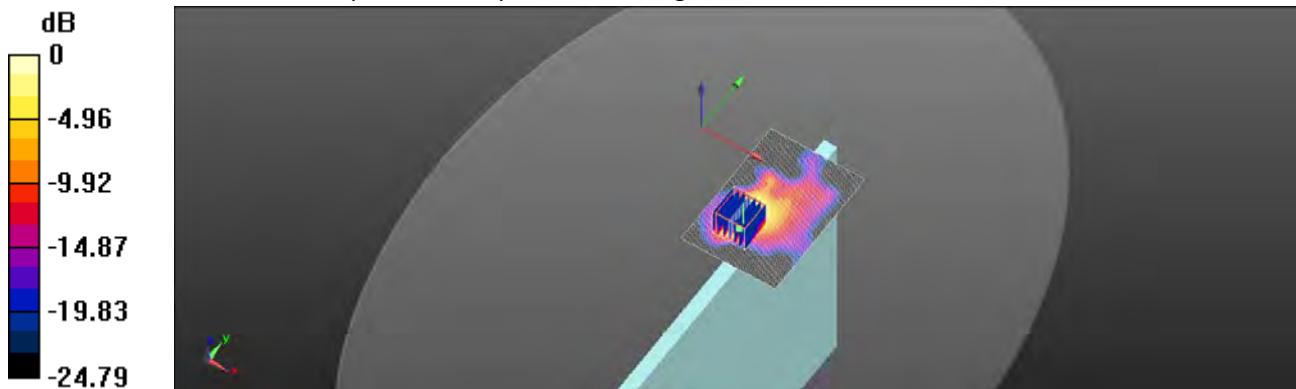
Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 0.825 W/kg; SAR(10 g) = 0.217 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 47.9%

Maximum value of SAR (measured) = 2.04 W/kg



0 dB = 2.04 W/kg = 3.10 dBW/kg

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Date: 2022/7/10

ID: 058

Report No. :TESA2205000114E5

WLAN 802.11ac(80M) 5.8G_Body_Top Tilt_CH 155_ChainA_0mm

Communication System: WLAN; Frequency: 5775 MHz;Duty Cycle: 1:1.006

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.137 \text{ S/m}$; $\epsilon_r = 35.227$; $\rho = 783 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.64 W/kg

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

Reference Value = 2.365 V/m; Power Drift = 0.03 dB

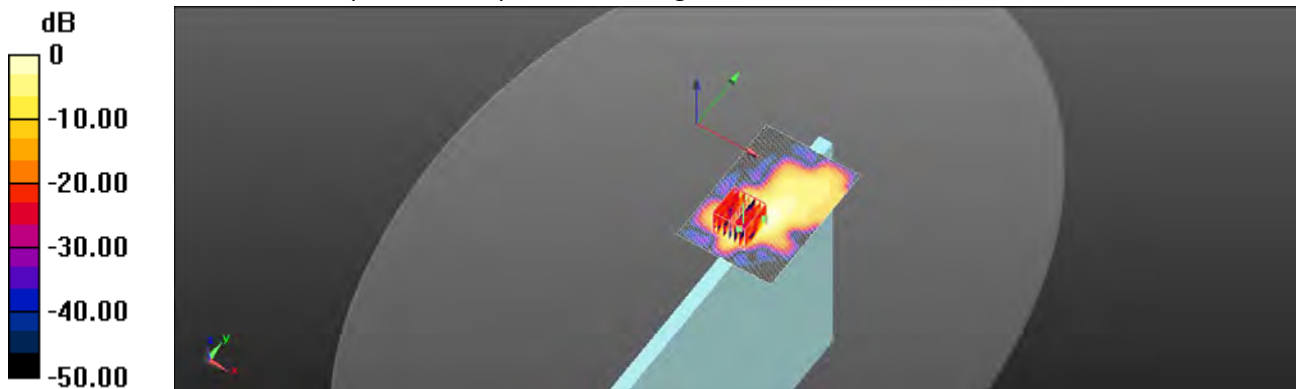
Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.153 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

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

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.09 dBW/kg

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Date: 2022/7/7

ID: 059

Report No. :TESA2205000114E5

WLAN 802.11b_Body_Back Surface_CH 6_ChainB_0mm

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1.010

Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.782 \text{ S/m}$; $\epsilon_r = 39.015$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x111x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.33 W/kg

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

Reference Value = 1.245 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.290 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 41.3%

Maximum value of SAR (measured) = 1.10 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.245 V/m; Power Drift = 0.11 dB

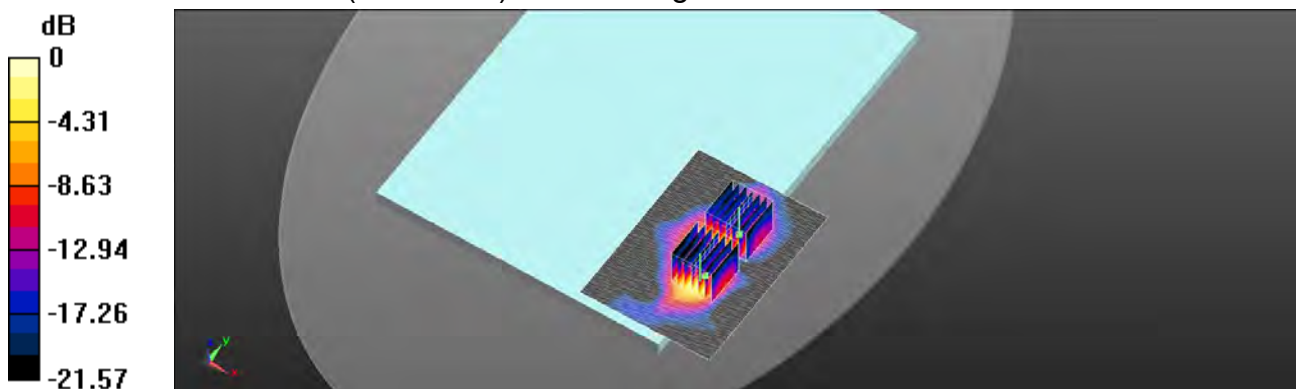
Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 0.711 W/kg; SAR(10 g) = 0.290 W/kg

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

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

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.097 dBW/kg

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Date: 2022/7/8

ID: 060

Report No. :TESA2205000114E5

WLAN 802.11ac(160M) 5.2G_Body_Top Edge_CH 50_ChainB_0mm

Communication System: WLAN; Frequency: 5250 MHz;Duty Cycle: 1:1.009

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.689 \text{ S/m}$; $\epsilon_r = 35.706$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.64 W/kg

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

Reference Value = 1.791 V/m; Power Drift = 0.19 dB

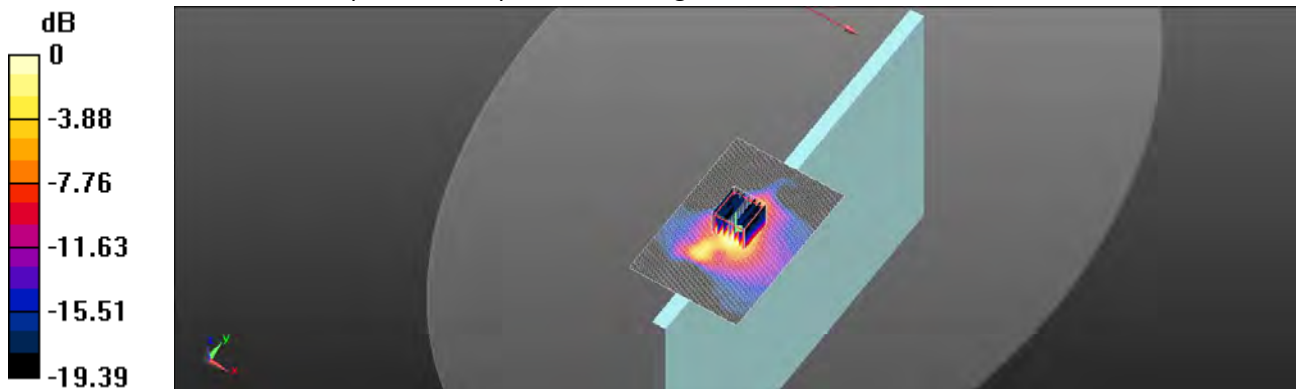
Peak SAR (extrapolated) = 3.07 W/kg

SAR(1 g) = 0.840 W/kg; SAR(10 g) = 0.293 W/kg

Smallest distance from peaks to all points 3 dB below = 6.9 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 1.67 W/kg



0 dB = 1.67 W/kg = 2.22 dBW/kg

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Date: 2022/7/8

ID: 061

Report No. :TESA2205000114E5

WLAN 802.11ac(80M) 5.3G_Body_Top Edge_CH 58_ChainB_0mm

Communication System: WLAN; Frequency: 5290 MHz;Duty Cycle: 1:1.006

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.731 \text{ S/m}$; $\epsilon_r = 35.664$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.59 W/kg

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

Reference Value = 1.743 V/m; Power Drift = 0.08 dB

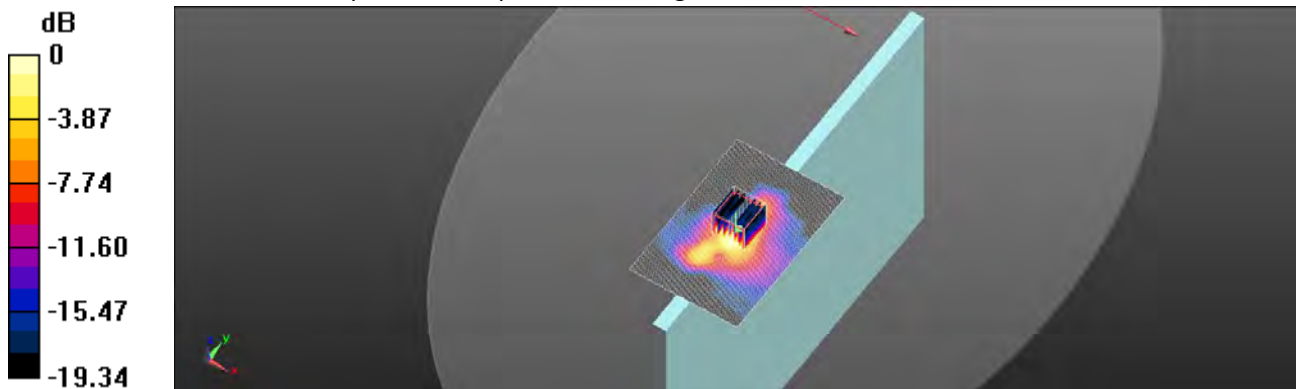
Peak SAR (extrapolated) = 3.13 W/kg

SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.287 W/kg

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 58.6%

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

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Date: 2022/7/9

ID: 062

Report No. :TESA2205000114E5

WLAN 802.11ac(160M) 5.6G_Body_Top Edge_CH 114_ChainB_0mm

Communication System: WLAN; Frequency: 5570 MHz;Duty Cycle: 1:1.009

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.012 \text{ S/m}$; $\epsilon_r = 35.339$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.34 W/kg

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

Reference Value = 1.637 V/m; Power Drift = 0.16 dB

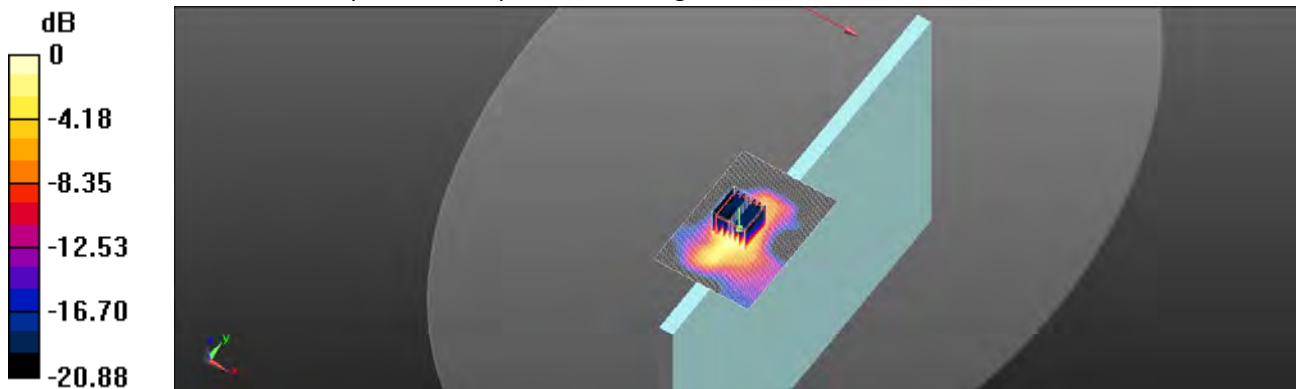
Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 0.690 W/kg; SAR(10 g) = 0.248 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg = 1.70 dBW/kg

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Date: 2022/7/10

ID: 063

Report No. :TESA2205000114E5

WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_ChainB_0mm

Communication System: WLAN; Frequency: 5775 MHz;Duty Cycle: 1:1.006

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.224 \text{ S/m}$; $\epsilon_r = 35.099$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.86 W/kg

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

Reference Value = 3.283 V/m; Power Drift = 0.18 dB

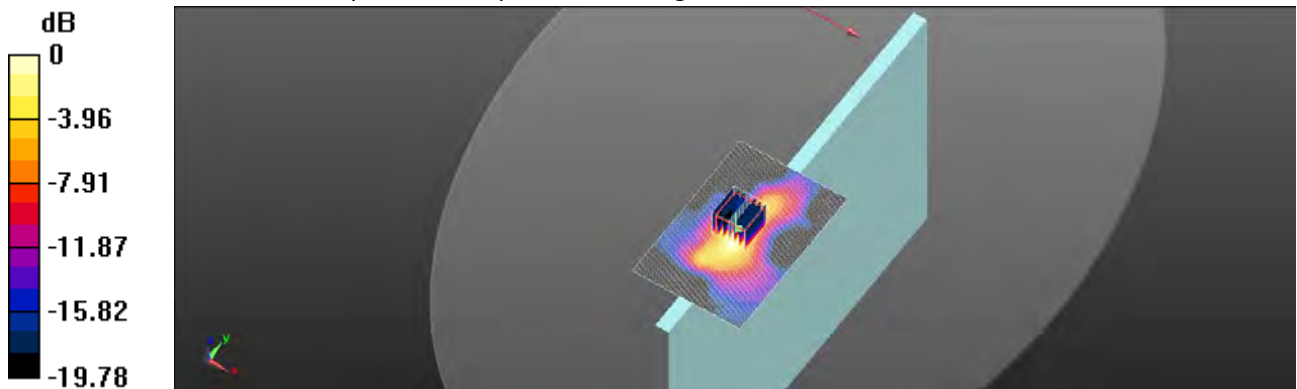
Peak SAR (extrapolated) = 4.02 W/kg

SAR(1 g) = 0.928 W/kg; SAR(10 g) = 0.323 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 51.7%

Maximum value of SAR (measured) = 1.88 W/kg



0 dB = 1.88 W/kg = 2.74 dBW/kg

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ID: 064

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_ChainA
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.533	35.298

Hardware Setup

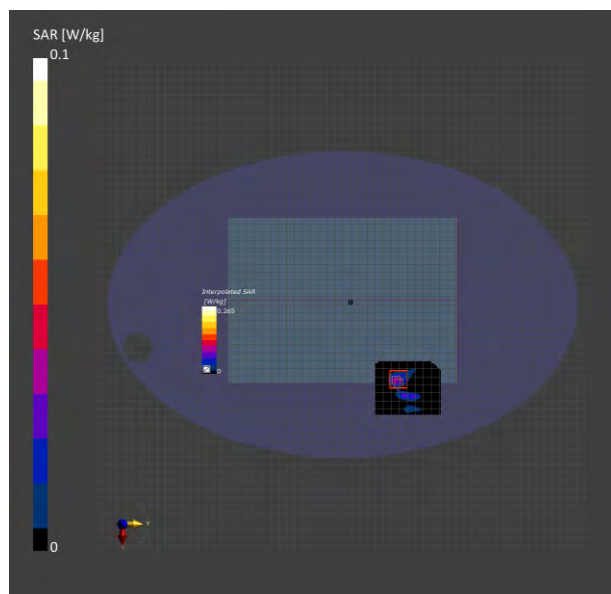
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.034	0.023
psSAR8g [W/kg]	0.007	0.005
psSAR10g [W/kg]	0.006	0.004
psPDab (4.0cm2, sq) [W/m2]		0.095
Power Drift [dB]	0.15	-0.10
M2/M1 [%]		87.5
Dist 3dB Peak [mm]		2.0



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ID: 065

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_ChainA
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.719	35.07

Hardware Setup

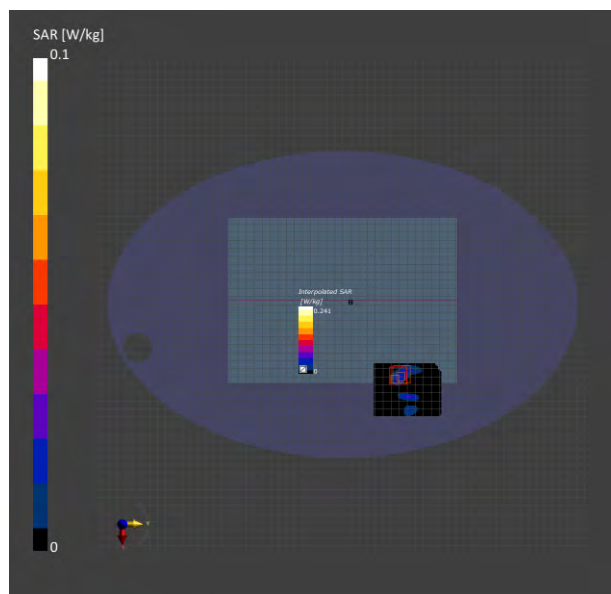
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.021	0.018
psSAR8g [W/kg]	0.004	0.003
psSAR10g [W/kg]	0.003	0.003
psPDab (4.0cm2, sq) [W/m2]		0.065
Power Drift [dB]	0.18	-0.16
M2/M1 [%]		82.9
Dist 3dB Peak [mm]		1.9



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ID: 066

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-6,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.101	34.684

Hardware Setup

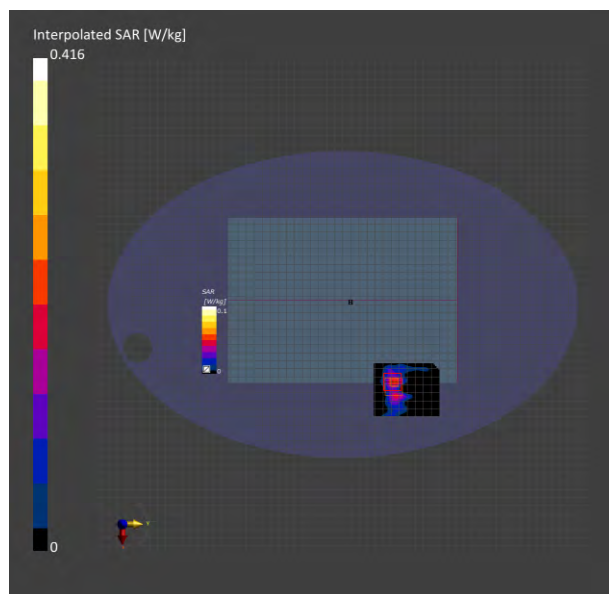
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.051	0.061
psSAR8g [W/kg]	0.021	0.020
psSAR10g [W/kg]	0.018	0.017
psPDab (4.0cm2, sq) [W/m2]		0.407
Power Drift [dB]	0.06	-0.15
M2/M1 [%]		78.6
Dist 3dB Peak [mm]		2.7



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ID: 067

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-7,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.283	34.498

Hardware Setup

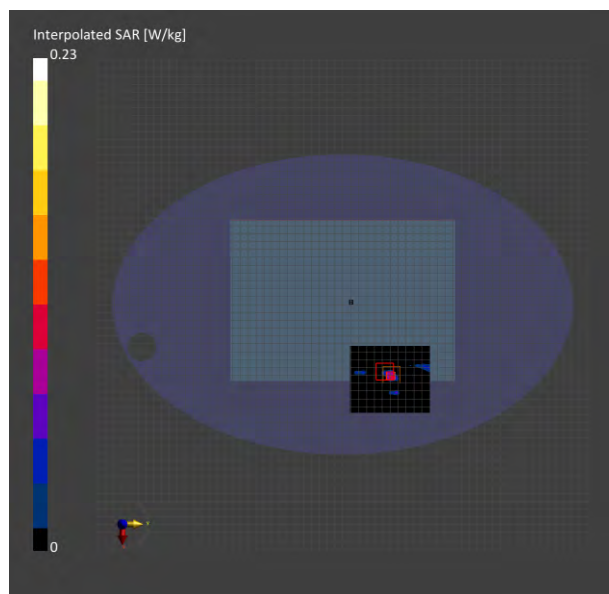
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.033	0.013
psSAR8g [W/kg]	0.006	0.001
psSAR10g [W/kg]	0.005	0.001
psPDab (4.0cm2, sq) [W/m2]		0.025
Power Drift [dB]	0.02	0.11
M2/M1 [%]		84.9
Dist 3dB Peak [mm]		1.1



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ID: 068

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle), Channel 207 (6985.0 MHz)_ChainA
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.14	6.661	34.132

Hardware Setup

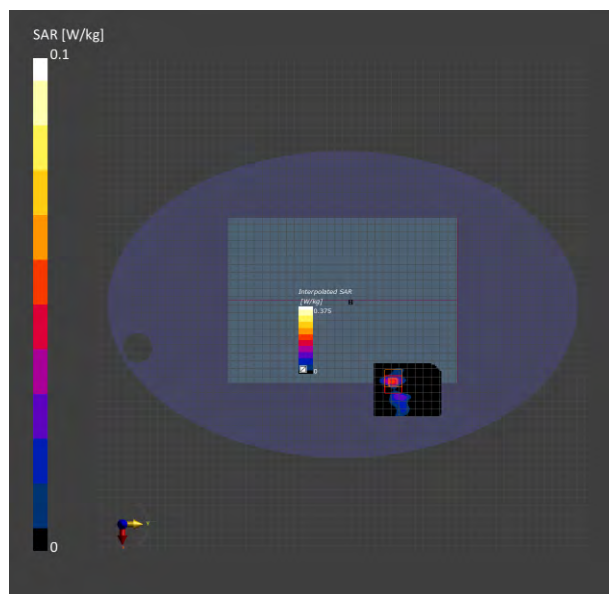
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.047	0.051
psSAR8g [W/kg]	0.014	0.015
psSAR10g [W/kg]	0.012	0.012
psPDab (4.0cm2, sq) [W/m2]		0.293
Power Drift [dB]	0.09	0.10
M2/M1 [%]		66.6
Dist 3dB Peak [mm]		2.8



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ID: 069

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_ChainB
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.719	35.07

Hardware Setup

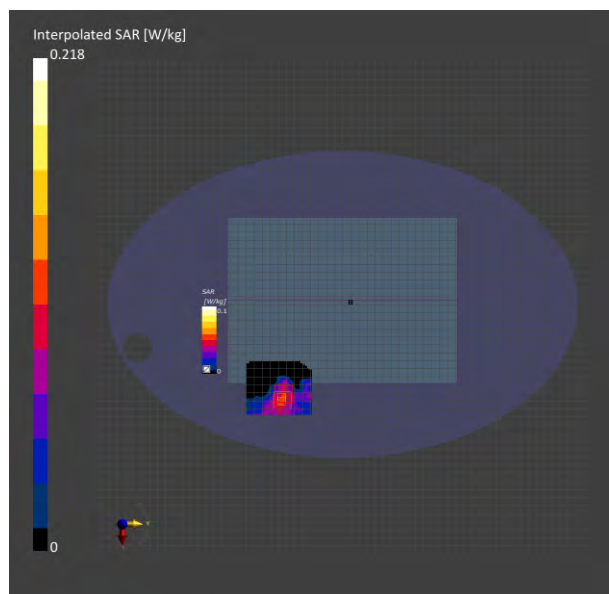
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.049	0.054
psSAR8g [W/kg]	0.022	0.023
psSAR10g [W/kg]	0.020	0.020
psPDab (4.0cm2, sq) [W/m2]		0.462
Power Drift [dB]	0.17	-0.09
M2/M1 [%]		59.7
Dist 3dB Peak [mm]		8.5



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ID: 070

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_ChainB

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.908	34.894

Hardware Setup

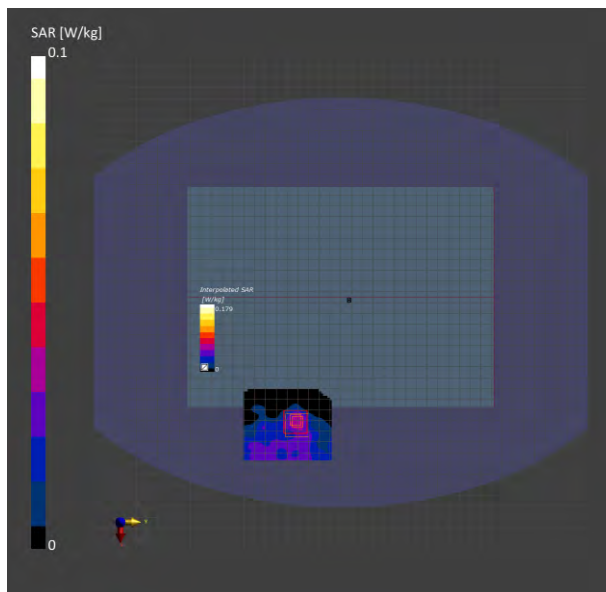
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.035	0.040
psSAR8g [W/kg]	0.015	0.017
psSAR10g [W/kg]	0.013	0.015
psPDab (4.0cm2, sq) [W/m2]		0.347
Power Drift [dB]	0.04	-0.02
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		9.8



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Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-6,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.101	34.684

Hardware Setup

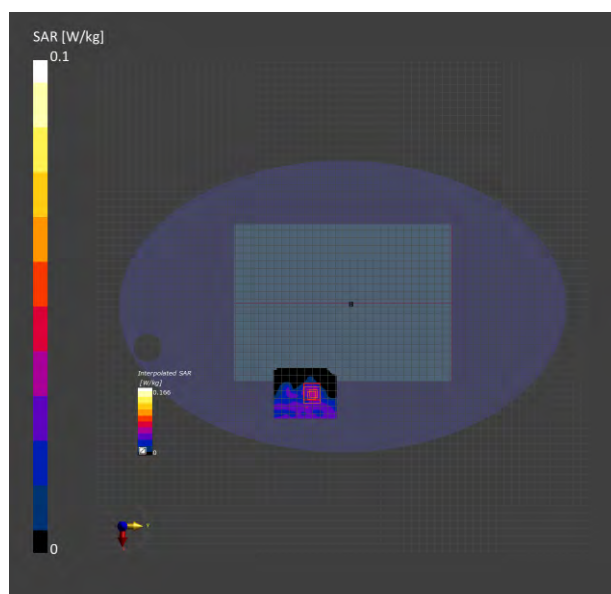
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.037	0.040
psSAR8g [W/kg]	0.016	0.017
psSAR10g [W/kg]	0.015	0.014
psPDab (4.0cm2, sq) [W/m2]		0.330
Power Drift [dB]	0.16	-0.07
M2/M1 [%]		59.0
Dist 3dB Peak [mm]		> 11.0



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ID: 072

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-7,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.283	34.498

Hardware Setup

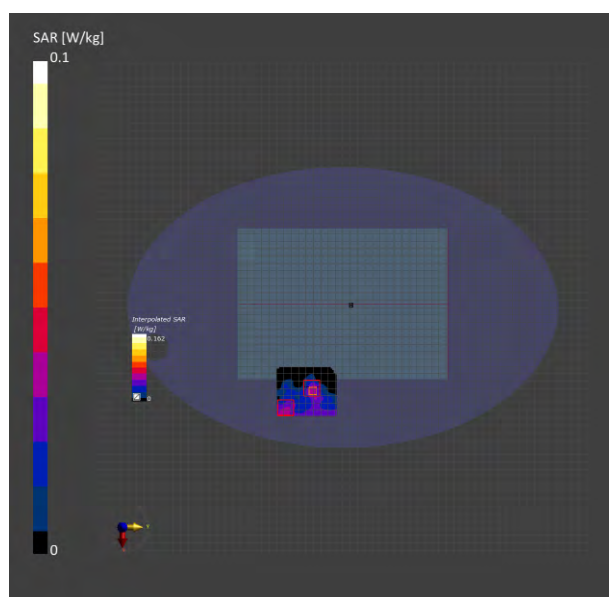
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.036	0.036
psSAR8g [W/kg]	0.016	0.015
psSAR10g [W/kg]	0.014	0.013
psPDab (4.0cm2, sq) [W/m2]		0.299
Power Drift [dB]	0.04	-0.07
M2/M1 [%]		56.9
Dist 3dB Peak [mm]		> 11.0



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ID: 073

Report No. :TESA2205000114E5

Measurement Report for Device, Bottom Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_ChainB
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.14	6.661	34.132

Hardware Setup

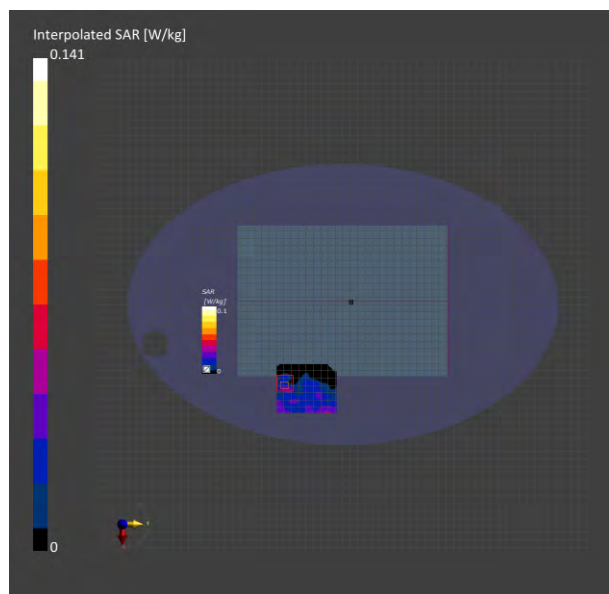
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.037	0.029
psSAR8g [W/kg]	0.016	0.011
psSAR10g [W/kg]	0.015	0.009
psPDab (4.0cm2, sq) [W/m2]		0.218
Power Drift [dB]	0.03	0.09
M2/M1 [%]		50.8
Dist 3dB Peak [mm]		> 11.0



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ID: 074

Report No. :TESA2205000114E5

Measurement Report for Device, TOP Tilt, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_ChainA

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	TOP Tilt, 0.00	6.2	5.719	35.07

Hardware Setup

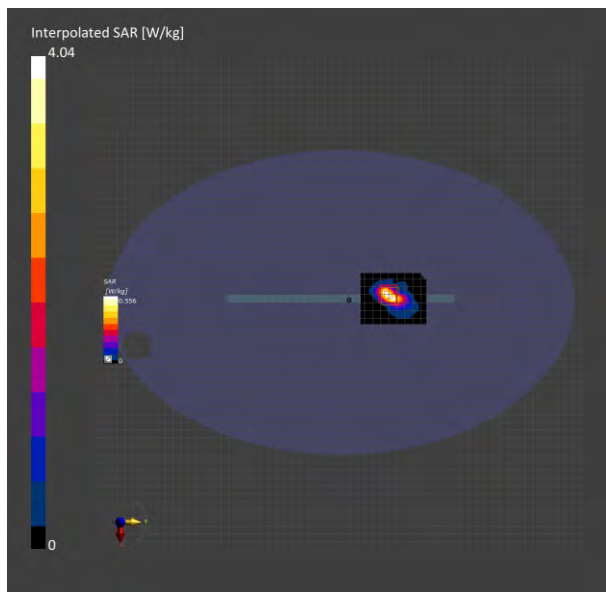
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.593	0.721
psSAR8g [W/kg]	0.219	0.230
psSAR10g [W/kg]	0.191	0.193
psPDab (4.0cm2, sq) [W/m2]		4.55
Power Drift [dB]	-1.25	0.25
M2/M1 [%]		54.9
Dist 3dB Peak [mm]		4.3



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ID: 075

Report No. :TESA2205000114E5

Measurement Report for Device, TOP Tilt, U-NII-5,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	TOP Tilt , 0.00	6.2	5.908	34.894

Hardware Setup

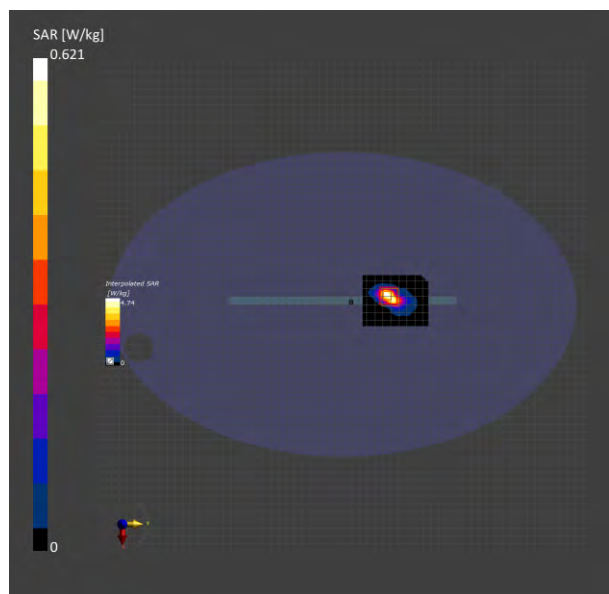
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.2 x 3.2 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.674	0.799
psSAR8g [W/kg]	0.239	0.250
psSAR10g [W/kg]	0.207	0.208
psPDab (4.0cm2, sq) [W/m2]		4.89
Power Drift [dB]	0.12	0.24
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		4.5



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ID: 076

Report No. :TESA2205000114E5

Measurement Report for Device, TOP Tilt, U-NII-6,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	TOP Tilt, 0.00	6.2	6.101	34.684

Hardware Setup

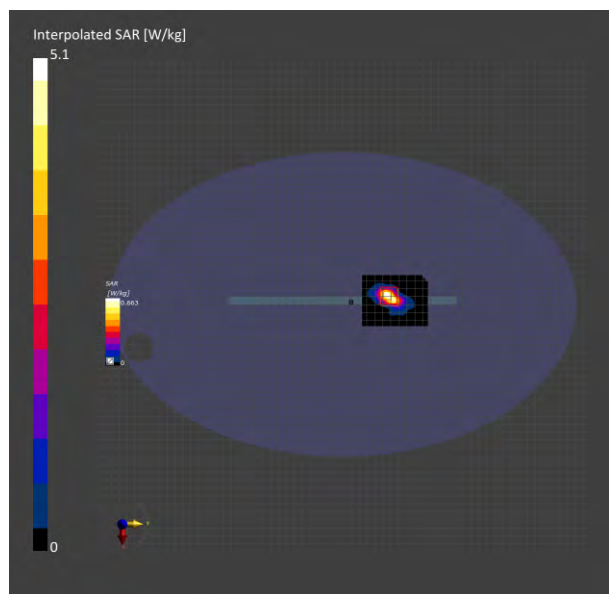
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.718	0.861
psSAR8g [W/kg]	0.259	0.270
psSAR10g [W/kg]	0.225	0.232
psPDab (4.0cm2, sq) [W/m2]		5.40
Power Drift [dB]	0.28	0.11
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		4.3



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ID: 077

Report No. :TESA2205000114E5

Measurement Report for Device, TOP Tilt, U-NII-7,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	TOP Tilt, 0.00	6.2	6.283	34.498

Hardware Setup

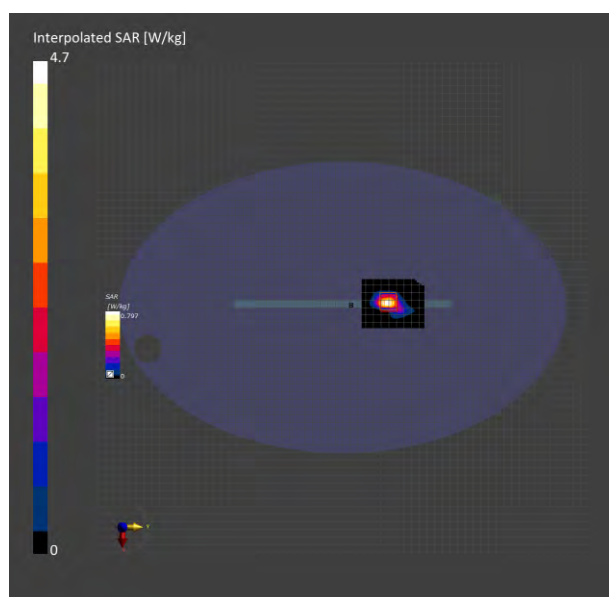
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 323.0	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	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.667	0.761
psSAR8g [W/kg]	0.249	0.252
psSAR10g [W/kg]	0.218	0.193
psPDab (4.0cm2, sq) [W/m2]		4.54
Power Drift [dB]	-0.13	-0.24
M2/M1 [%]		49.5
Dist 3dB Peak [mm]		5.4



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ID: 078

Report No. :TESA2205000114E5

Measurement Report for Device, TOP EDGE, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_ChainA
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	TOP EDGE, 0.00	6.14	6.661	34.132

Hardware Setup

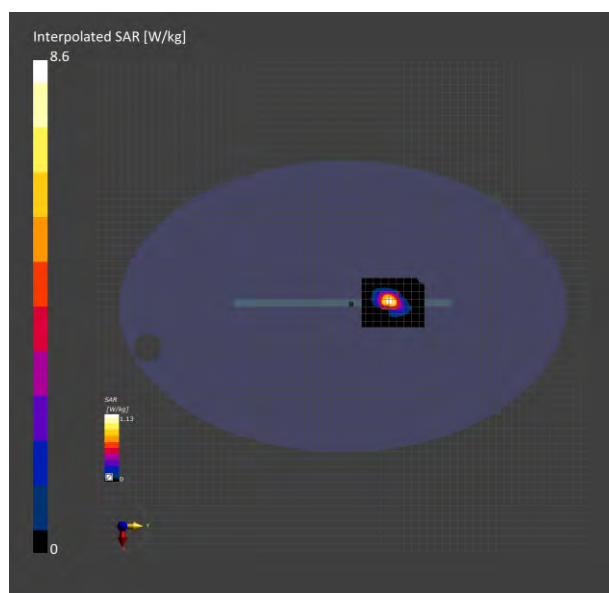
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 323.0	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	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.772	0.902
psSAR8g [W/kg]	0.288	0.289
psSAR10g [W/kg]	0.254	0.248
psPDab (4.0cm2, sq) [W/m2]		5.78
Power Drift [dB]	0.11	-0.12
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		4.8



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ID: 079

Report No. :TESA2205000114E5

Measurement Report for Device, TOP Tilt, U-NII-5,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	TOP Tilt, 0.00	6.2	5.533	35.298

Hardware Setup

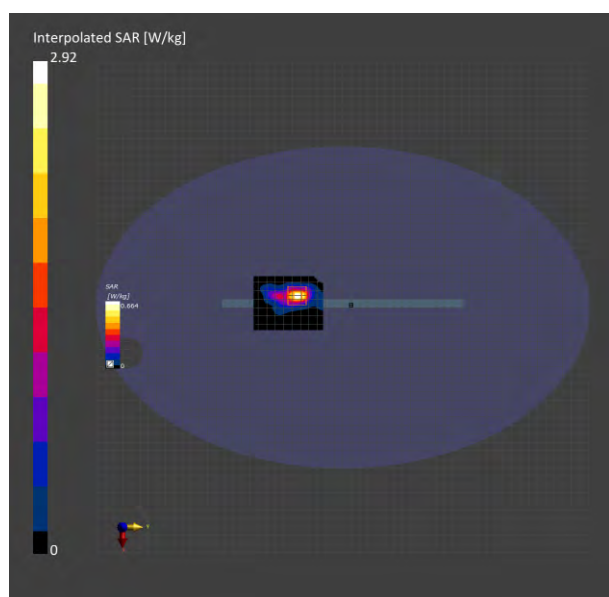
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.654	0.621
psSAR8g [W/kg]	0.232	0.226
psSAR10g [W/kg]	0.204	0.198
psPDab (4.0cm2, sq) [W/m2]		4.51
Power Drift [dB]	-0.07	0.02
M2/M1 [%]		56.0
Dist 3dB Peak [mm]		6.8



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ID: 080

Report No. :TESA2205000114E5

Measurement Report for Device, TOP Tilt, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_ChainB

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	TOP Tilt, 0.00	6.2	5.719	35.07

Hardware Setup

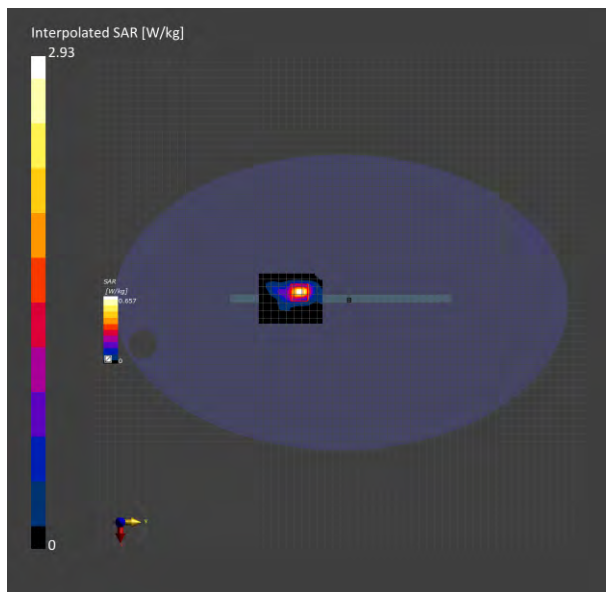
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.637	0.601
psSAR8g [W/kg]	0.223	0.216
psSAR10g [W/kg]	0.195	0.189
psPDab (4.0cm2, sq) [W/m2]		4.32
Power Drift [dB]	-0.04	0.07
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		6.8



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ID: 081

Report No. :TESA2205000114E5

Measurement Report for Device, TOP Tilt, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_ChainB

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	TOP Tilt, 0.00	6.2	6.101	34.684

Hardware Setup

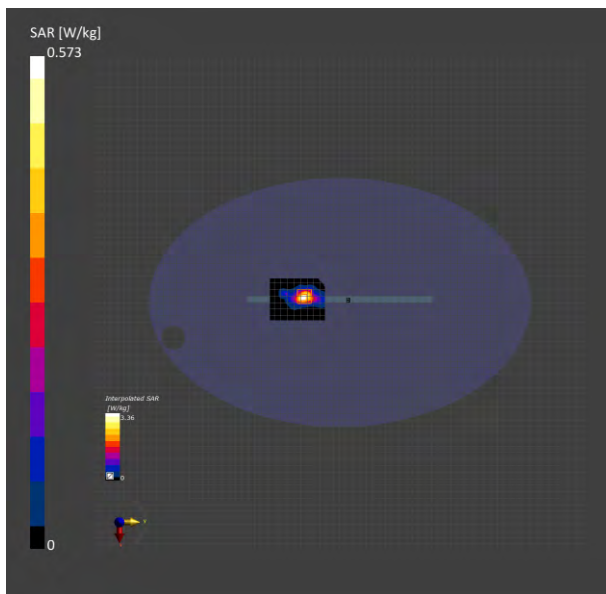
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	0.627	0.671
psSAR8g [W/kg]	0.241	0.236
psSAR10g [W/kg]	0.204	0.205
psPDab (4.0cm2, sq) [W/m2]		4.71
Power Drift [dB]	0.06	0.12
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		6.8



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ID: 082

Report No. :TESA2205000114E5

Measurement Report for Device, TOP Tilt, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_ChainB
Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	TOP Tilt, 0.00	6.2	6.283	34.498

Hardware Setup

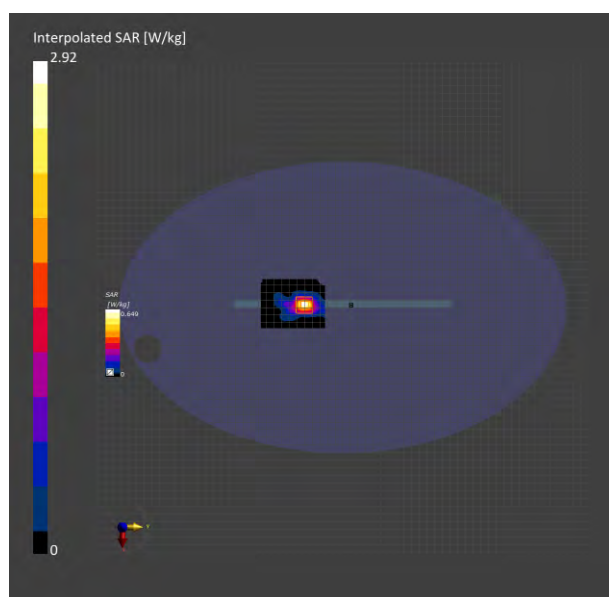
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 323.0	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	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.963	1.01
psSAR8g [W/kg]	0.324	0.316
psSAR10g [W/kg]	0.281	0.271
psPDab (4.0cm2, sq) [W/m2]		6.33
Power Drift [dB]	0.04	0.10
M2/M1 [%]		43.7
Dist 3dB Peak [mm]		4.1



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ID: 083

Report No. :TESA2205000114E5

Measurement Report for Device, TOP Tilt, U-NII-8,

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

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	TOP Tilt, 0.00	6.14	6.661	34.132

Hardware Setup

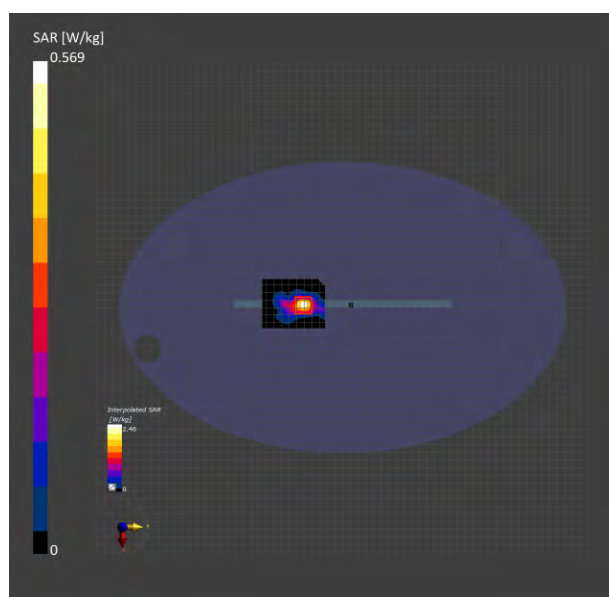
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 323.0	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	2022-07-06	2022-07-06
psSAR1g [W/kg]	0.929	0.910
psSAR8g [W/kg]	0.306	0.281
psSAR10g [W/kg]	0.264	0.240
psPDab (4.0cm2, sq) [W/m2]		5.63
Power Drift [dB]	-0.11	-0.11
M2/M1 [%]		43.8
Dist 3dB Peak [mm]		4.6



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12 PD MEASUREMENT RESULT

ID: 084

Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_ChainA
Exposure Conditions

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

Hardware Setup

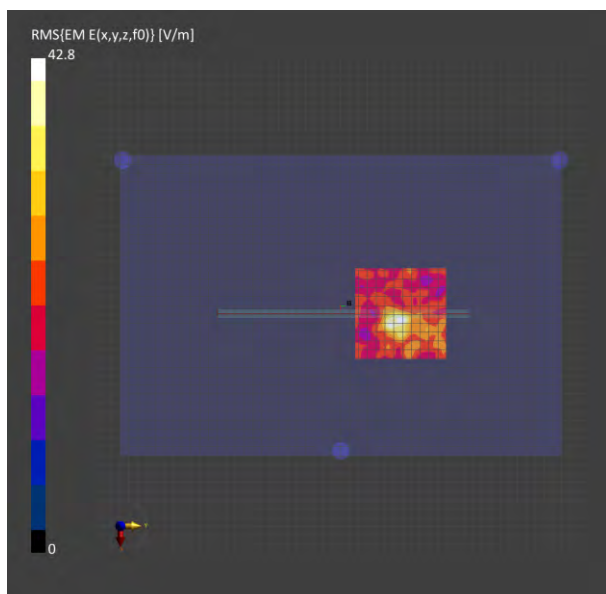
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.72
psPDtot+ [W/m ²]	3.21
psPDmod+ [W/m ²]	3.45
E _{max} [V/m]	42.8
Power Drift [dB]	-0.13



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ID: 085

Report No. :TESA2205000114E5

**Measurement Report for Device, Top Tilt, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_ChainA
Exposure Conditions**

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

Hardware Setup

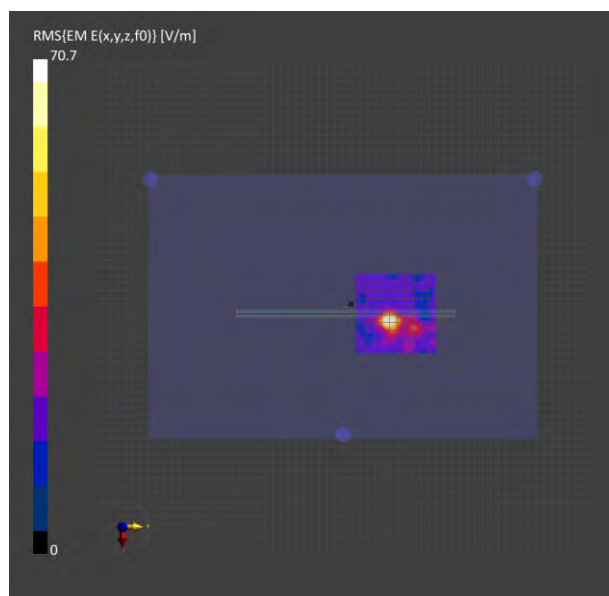
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.03
psPDtot+ [W/m ²]	4.85
psPDmod+ [W/m ²]	6.13
E _{max} [V/m]	70.7
Power Drift [dB]	-0.18



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Report No. :TESA2205000114E5

**Measurement Report for Device, Top Tilt, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_ChainA
Exposure Conditions**

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

Hardware Setup

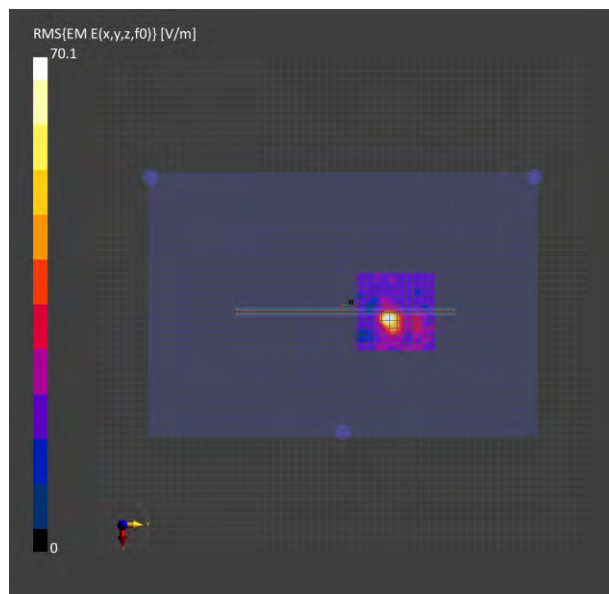
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.70
psPDtot+ [W/m ²]	4.01
psPDmod+ [W/m ²]	5.60
E _{max} [V/m]	70.1
Power Drift [dB]	0.03



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Report No. :TESA2205000114E5

**Measurement Report for Device, Top Tilt, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_ChainA
Exposure Conditions**

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

Hardware Setup

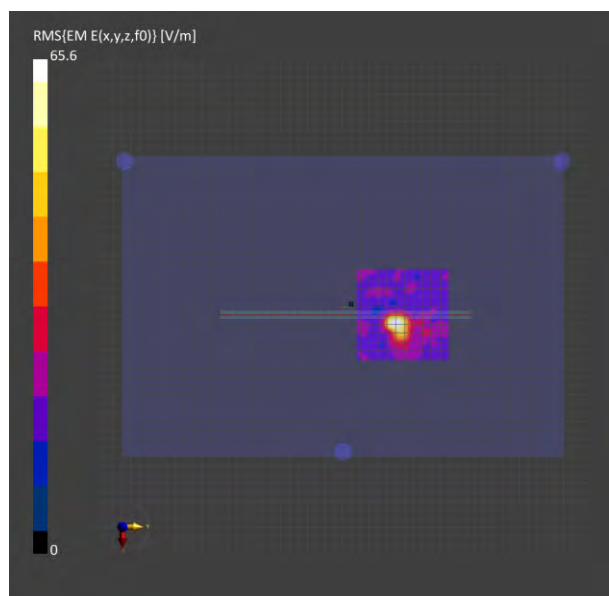
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.94
psPDtot+ [W/m ²]	5.46
psPDmod+ [W/m ²]	6.09
E _{max} [V/m]	65.6
Power Drift [dB]	0.17



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Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_ChainA**Exposure Conditions**

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

Hardware Setup

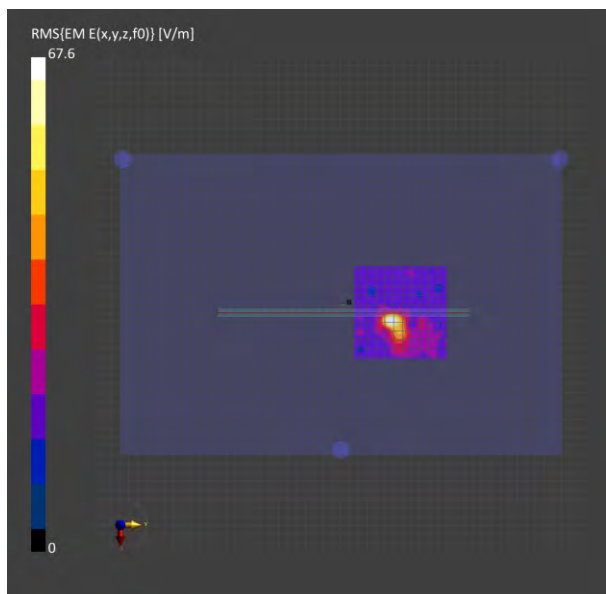
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.29
psPDtot+ [W/m ²]	5.16
psPDmod+ [W/m ²]	5.99
E _{max} [V/m]	67.6
Power Drift [dB]	0.06



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Report No. :TESA2205000114E5

**Measurement Report for Device, Top Edge, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_ChainB
Exposure Conditions**

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

Hardware Setup

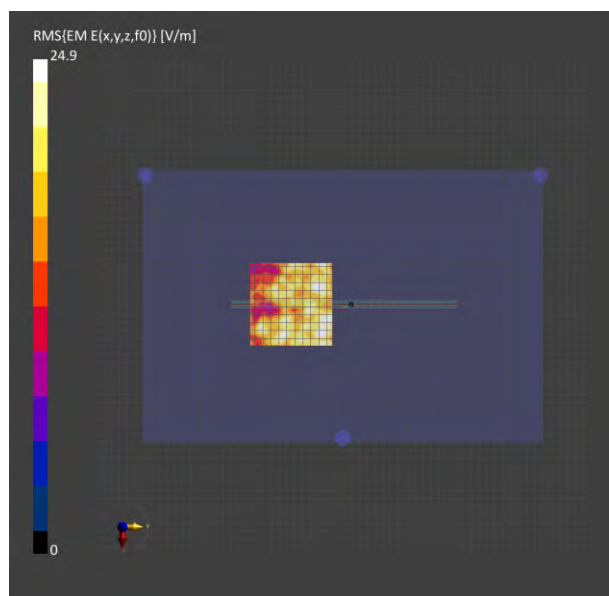
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.950
psPDtot+ [W/m ²]	0.996
psPDmod+ [W/m ²]	1.10
E _{max} [V/m]	24.9
Power Drift [dB]	-0.15



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ID: 090

Report No. :TESA2205000114E5

**Measurement Report for Device, Top Edge, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_ChainB
Exposure Conditions**

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

Hardware Setup

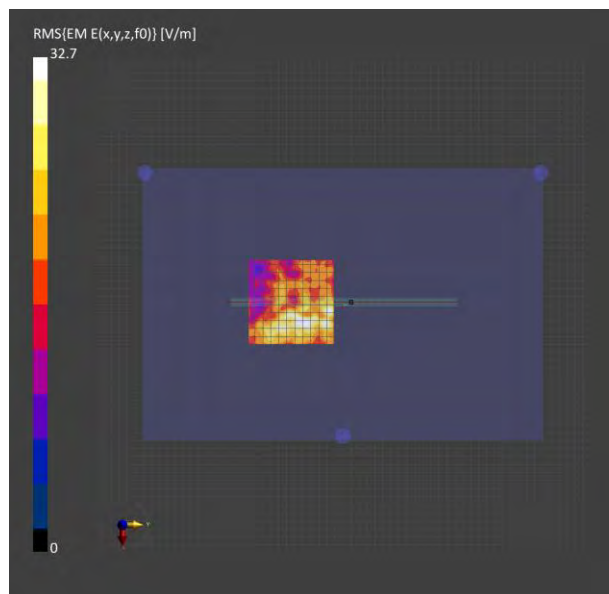
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.49
psPDtot+ [W/m ²]	1.67
psPDmod+ [W/m ²]	2.01
E _{max} [V/m]	32.7
Power Drift [dB]	-0.18



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ID: 091

Report No. :TESA2205000114E5

**Measurement Report for Device, Top Edge, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_ChainB
Exposure Conditions**

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

Hardware Setup

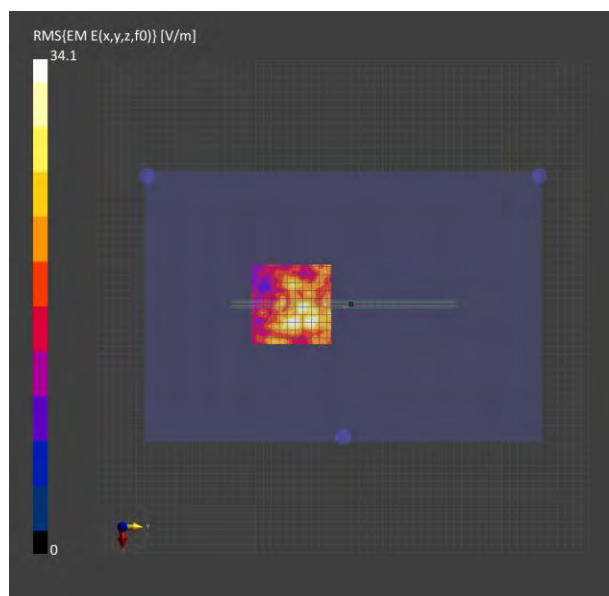
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.88
psPDtot+ [W/m ²]	2.00
psPDmod+ [W/m ²]	2.15
E _{max} [V/m]	34.1
Power Drift [dB]	0.07



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Report No. :TESA2205000114E5

**Measurement Report for Device, Top Edge, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_ChainB
Exposure Conditions**

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

Hardware Setup

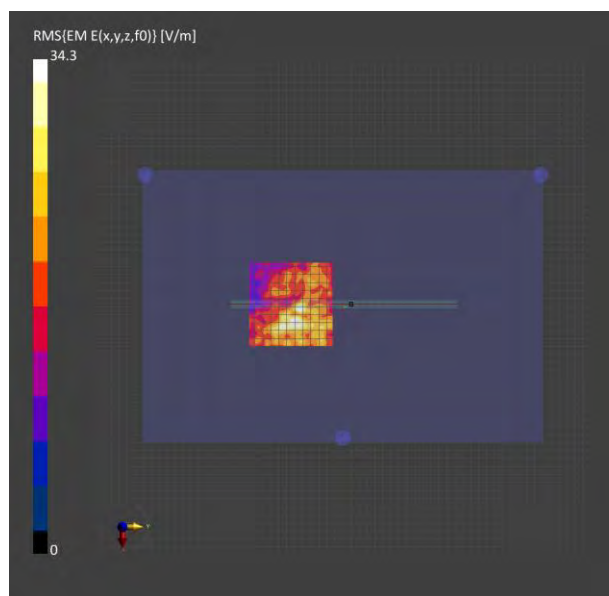
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.24
psPDtot+ [W/m ²]	1.53
psPDmod+ [W/m ²]	1.99
E _{max} [V/m]	34.3
Power Drift [dB]	0.13



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Report No. :TESA2205000114E5

**Measurement Report for Device, Top Edge, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_ChainB
Exposure Conditions**

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

Hardware Setup

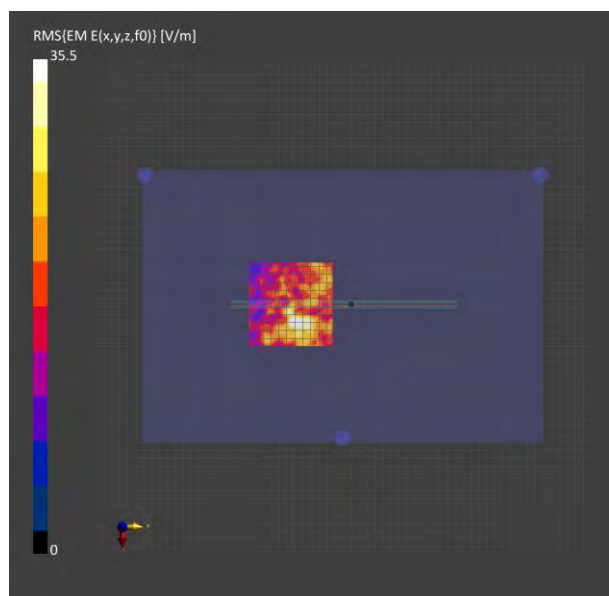
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.48
psPDtot+ [W/m ²]	1.64
psPDmod+ [W/m ²]	2.10
E _{max} [V/m]	35.6
Power Drift [dB]	-0.12



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Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_ChainA**Exposure Conditions**

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

Hardware Setup

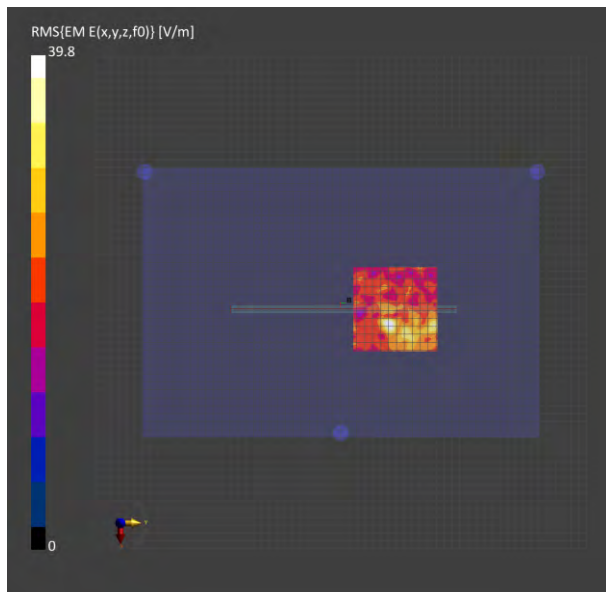
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.94
psPDtot+ [W/m ²]	2.06
psPDmod+ [W/m ²]	2.52
E _{max} [V/m]	39.8
Power Drift [dB]	0.11



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Report No. :TESA2205000114E5

**Measurement Report for Device, Top Tilt, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_ChainA
Exposure Conditions**

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

Hardware Setup

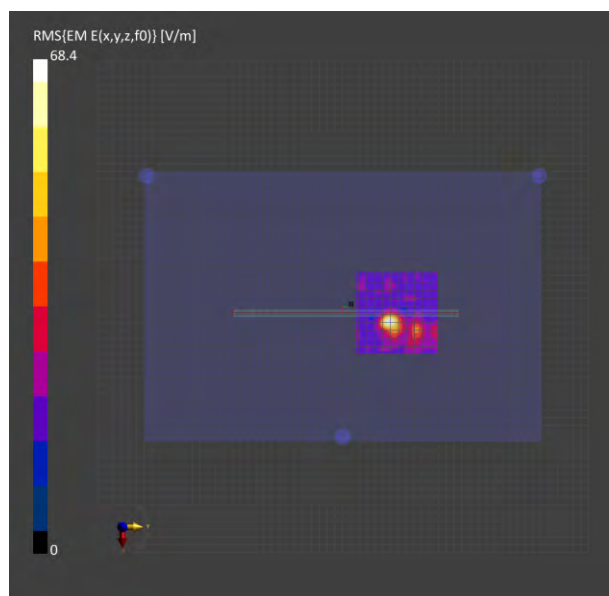
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.92
psPDtot+ [W/m ²]	4.51
psPDmod+ [W/m ²]	5.49
E _{max} [V/m]	68.4
Power Drift [dB]	-0.09



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Report No. :TESA2205000114E5

**Measurement Report for Device, Top Tilt, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_ChainA
Exposure Conditions**

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

Hardware Setup

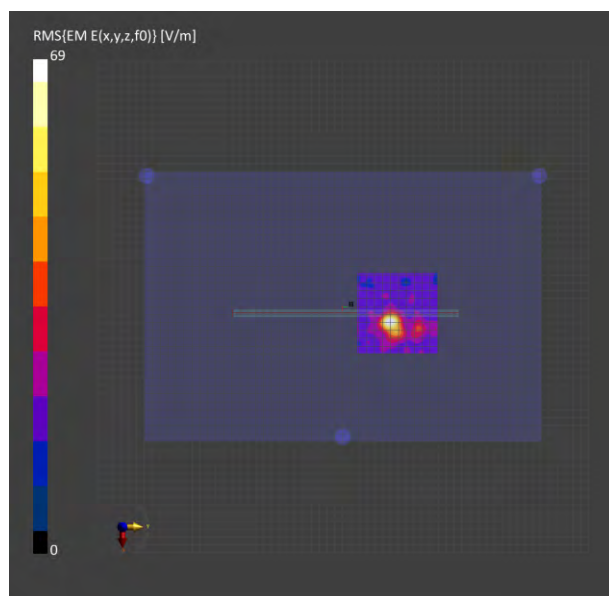
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.26
psPDtot+ [W/m ²]	5.00
psPDmod+ [W/m ²]	5.74
E _{max} [V/m]	69.0
Power Drift [dB]	-0.15



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Report No. :TESA2205000114E5

**Measurement Report for Device, Top Tilt, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_ChainA
Exposure Conditions**

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

Hardware Setup

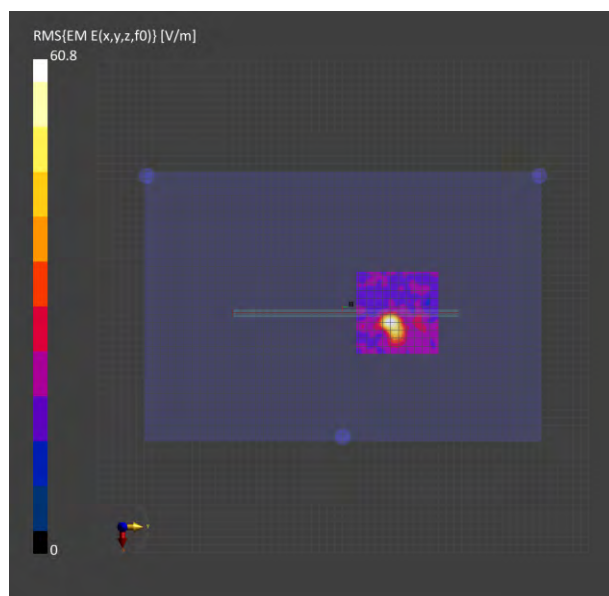
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.87
psPDtot+ [W/m ²]	4.53
psPDmod+ [W/m ²]	5.03
E _{max} [V/m]	60.8
Power Drift [dB]	0.18



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Report No. :TESA2205000114E5

Measurement Report for Device, Top Edge, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_ChainA**Exposure Conditions**

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

Hardware Setup

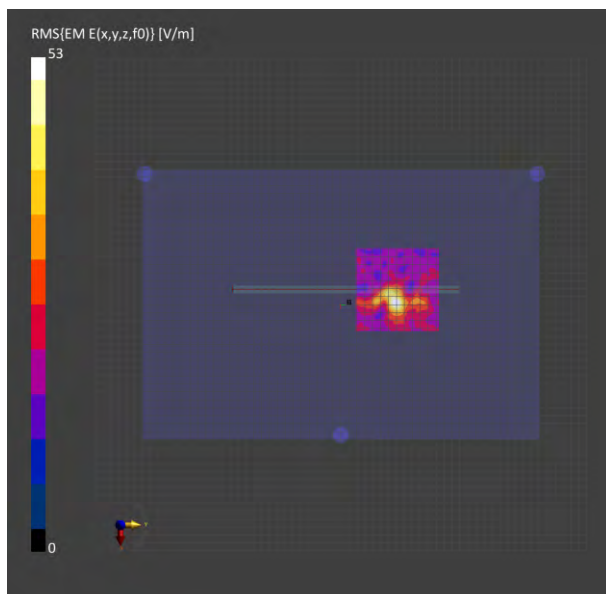
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.26
psPDtot+ [W/m ²]	3.61
psPDmod+ [W/m ²]	3.92
E _{max} [V/m]	53.0
Power Drift [dB]	-0.13



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Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-5,

IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_ChainB

Exposure Conditions

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

Hardware Setup

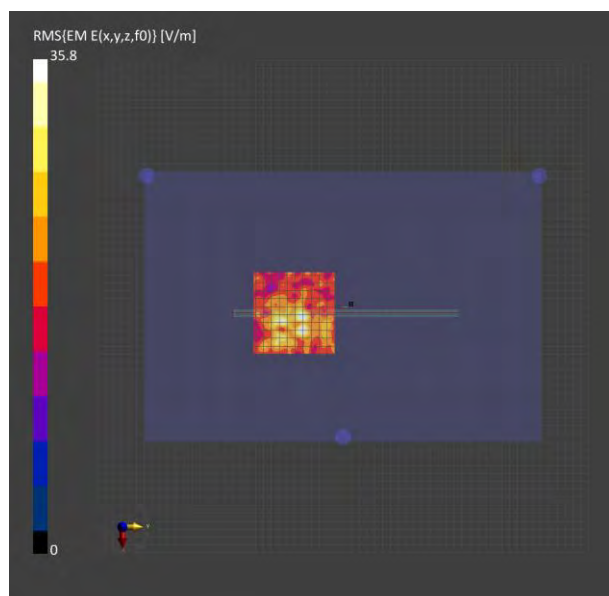
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.42
psPDtot+ [W/m ²]	1.50
psPDmod+ [W/m ²]	1.98
E _{max} [V/m]	35.8
Power Drift [dB]	0.06



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Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-5,

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

Exposure Conditions

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

Hardware Setup

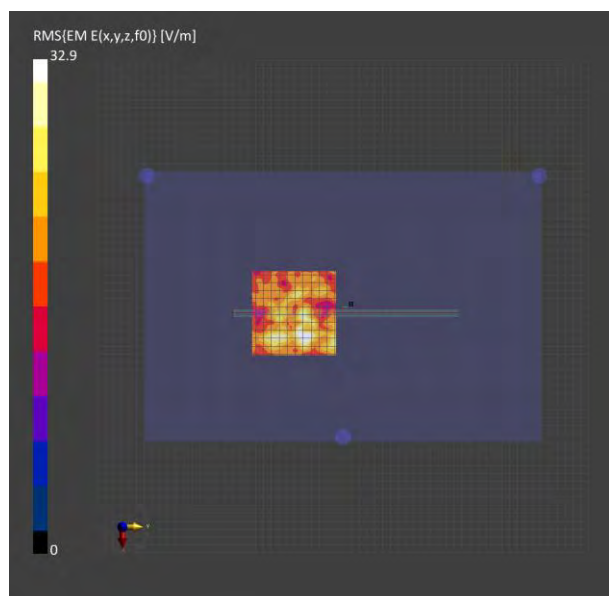
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.13
psPDtot+ [W/m ²]	1.29
psPDmod+ [W/m ²]	1.74
E _{max} [V/m]	32.9
Power Drift [dB]	0.11



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Report No. :TESA2205000114E5

**Measurement Report for Device, Top Tilt, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_ChainB
Exposure Conditions**

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

Hardware Setup

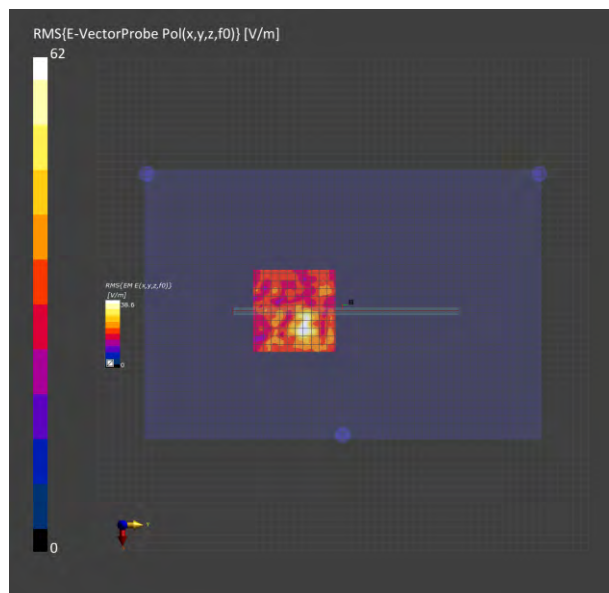
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-07-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.32
psPDtot+ [W/m ²]	1.50
psPDmod+ [W/m ²]	2.55
E _{max} [V/m]	47.3
Power Drift [dB]	0.10



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ID: 102

Report No. :TESA2205000114E5

**Measurement Report for Device, Top Tilt, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_ChainB
Exposure Conditions**

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

Hardware Setup

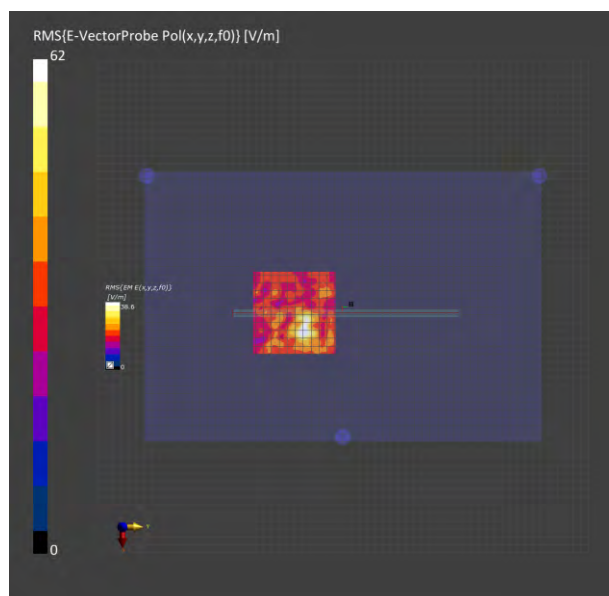
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.64
psPDtot+ [W/m ²]	1.88
psPDmod+ [W/m ²]	2.34
E _{max} [V/m]	38.6
Power Drift [dB]	0.14



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ID: 103

Report No. :TESA2205000114E5

Measurement Report for Device, Top Tilt, U-NII-8,

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

Exposure Conditions

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

Hardware Setup

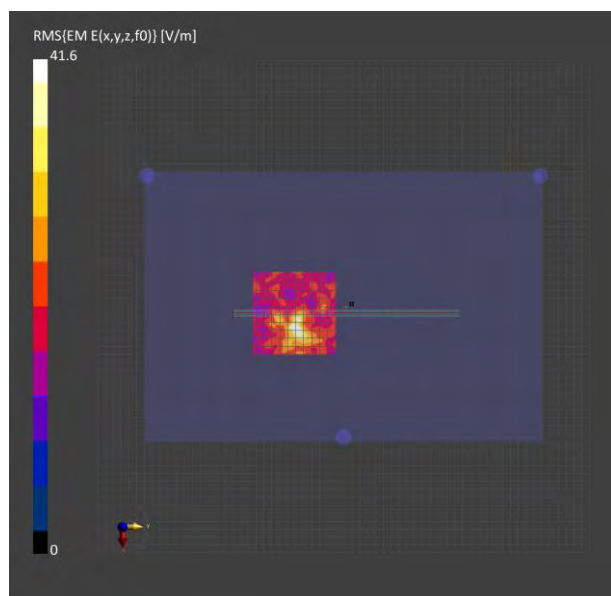
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-12
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.76
psPDtot+ [W/m ²]	1.84
psPDmod+ [W/m ²]	2.50
E _{max} [V/m]	41.6
Power Drift [dB]	0.10



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13 SAR SYSTEM CHECK RESULTS

Date: 2022/7/1

Report No. :TESA2205000114E5

Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.807 \text{ S/m}$; $\epsilon_r = 39.41$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 20.0 W/kg

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

Reference Value = 99.70 V/m; Power Drift = -0.01 dB

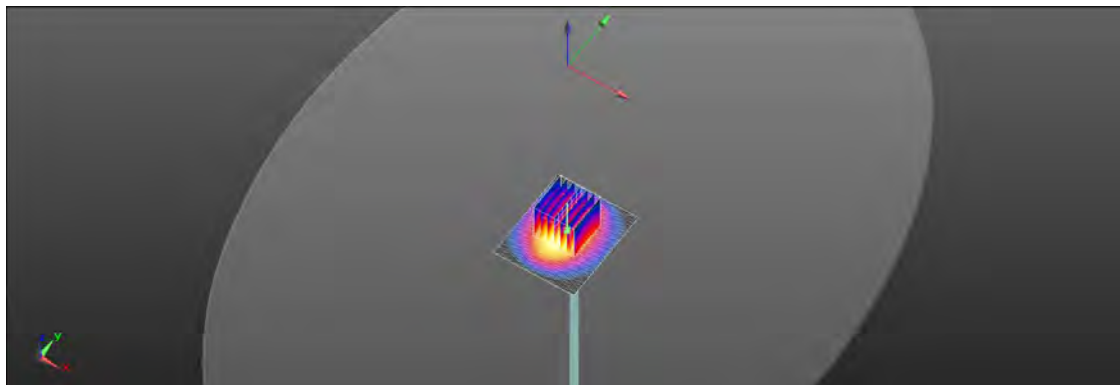
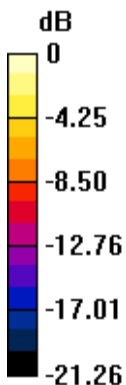
Peak SAR (extrapolated) = 25.2 W/kg

SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.91 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.75 dBW/kg

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Date: 2022/7/2

Report No. :TESA2205000114E5**Dipole 5250 MHz_SN:1023**

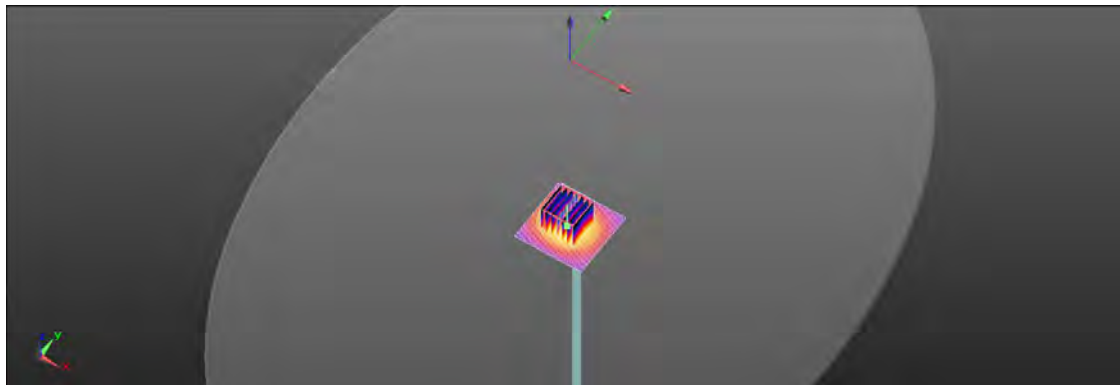
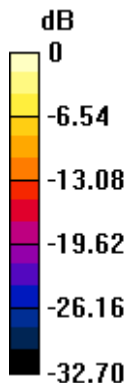
Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.726 \text{ S/m}$; $\epsilon_r = 36.144$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C ; Liquid temperature: 22.7°C **DASY5 Configuration:**

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$ Maximum value of SAR (interpolated) = 18.1 W/kg **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$ Reference Value = 65.41 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 34.1 W/kg **SAR(1 g) = 8.74 W/kg ; SAR(10 g) = 2.49 W/kg** Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 56.8% Maximum value of SAR (measured) = 18.1 W/kg  $0 \text{ dB} = 18.1 \text{ W/kg} = 12.59 \text{ dBW/kg}$

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Date: 2022/7/3

Report No. :TESA2205000114E5**Dipole 5600 MHz_SN:1023**

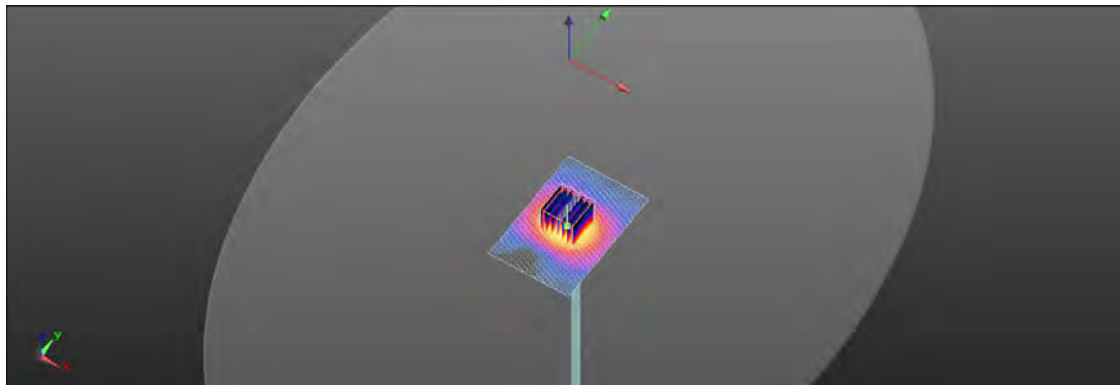
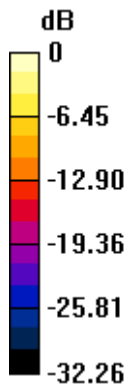
Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.086 \text{ S/m}$; $\epsilon_r = 35.731$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C ; Liquid temperature: 22.6°C **DASY5 Configuration:**

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$ Maximum value of SAR (interpolated) = 18.9 W/kg **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$ Reference Value = 62.73 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 36.4 W/kg **SAR(1 g) = 8.44 W/kg ; SAR(10 g) = 2.36 W/kg** Smallest distance from peaks to all points 3 dB below = 7.4 mm Ratio of SAR at M2 to SAR at M1 = 53.4% Maximum value of SAR (measured) = 18.0 W/kg  $0 \text{ dB} = 18.0 \text{ W/kg} = 12.54 \text{ dBW/kg}$

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Date: 2022/7/4

Report No. :TESA2205000114E5**Dipole 5750 MHz_SN:1023**

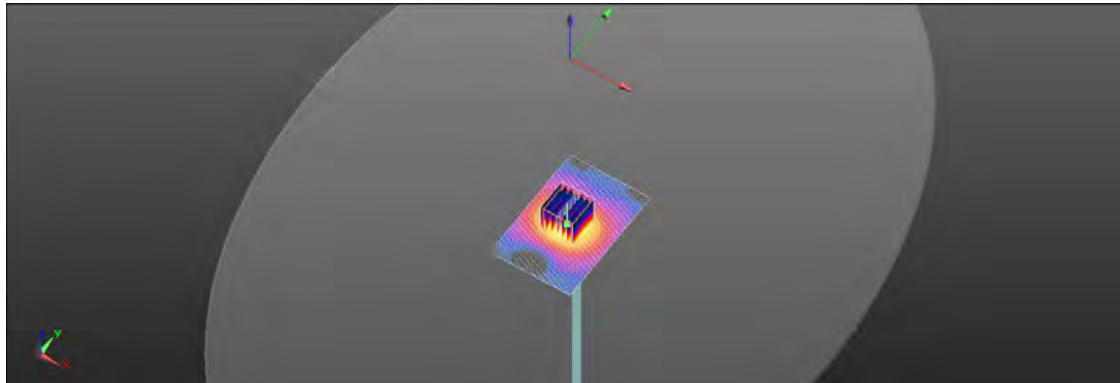
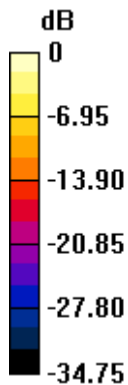
Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.241 \text{ S/m}$; $\epsilon_r = 35.585$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.8°C **DASY5 Configuration:**

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$ Maximum value of SAR (interpolated) = 19.3 W/kg **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$ Reference Value = 61.30 V/m ; Power Drift = 0.02 dB Peak SAR (extrapolated) = 40.0 W/kg **SAR(1 g) = 8.57 W/kg ; SAR(10 g) = 2.37 W/kg** Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 50.6% Maximum value of SAR (measured) = 18.5 W/kg  $0 \text{ dB} = 18.5 \text{ W/kg} = 12.68 \text{ dBW/kg}$

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Date: 2022/7/7

Report No. : TESA2205000114E5**Dipole 2450 MHz_SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.792$ S/m; $\epsilon_r = 38.988$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.6 W/kg

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

Reference Value = 123.1 V/m; Power Drift = 0.02 dB

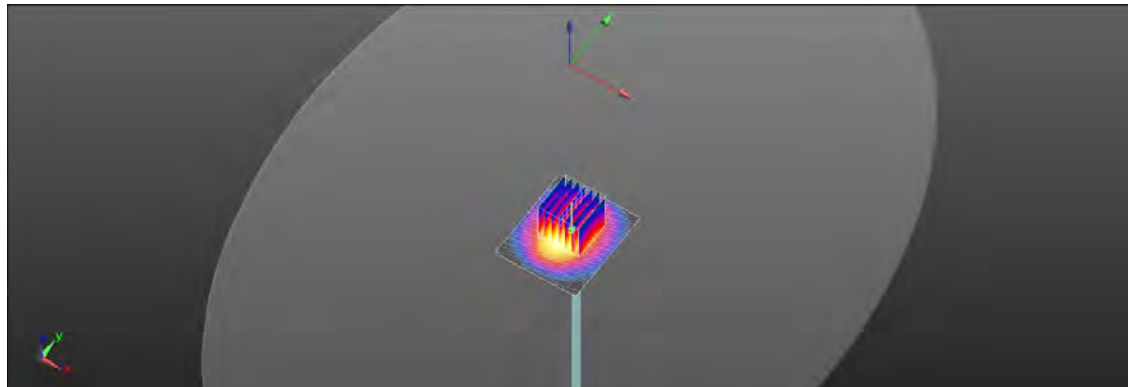
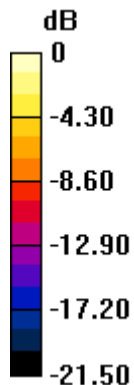
Peak SAR (extrapolated) = 26.5 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.22 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

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



0 dB = 19.8 W/kg = 12.96 dBW/kg

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Date: 2022/7/8

Report No. : TESA2205000114E5**Dipole 5250 MHz_SN:1023**

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.689 \text{ S/m}$; $\epsilon_r = 35.706$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 18.1 W/kg

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

Reference Value = 65.22 V/m; Power Drift = 0.03 dB

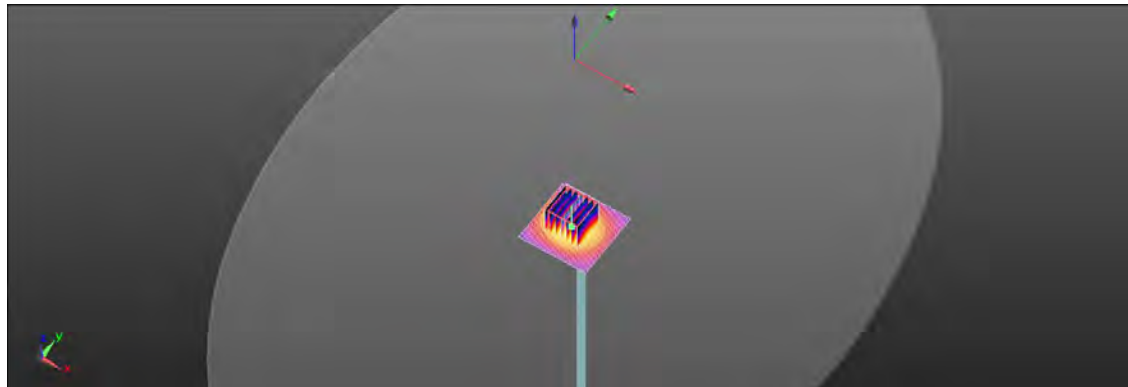
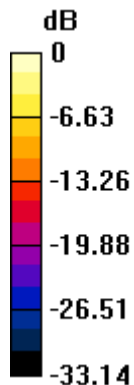
Peak SAR (extrapolated) = 34.0 W/kg

SAR(1 g) = 8.71 W/kg; SAR(10 g) = 2.3 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 18.1 W/kg



0 dB = 18.1 W/kg = 12.59 dBW/kg

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Date: 2022/7/9

Report No. : TESA2205000114E5**Dipole 5600 MHz_SN:1023**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.044$ S/m; $\epsilon_r = 35.298$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 18.8 W/kg

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

Reference Value = 62.58 V/m; Power Drift = 0.02 dB

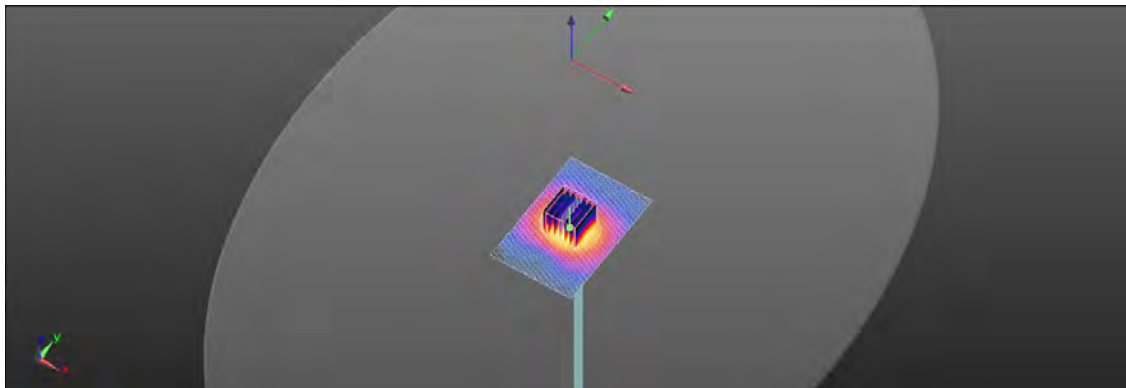
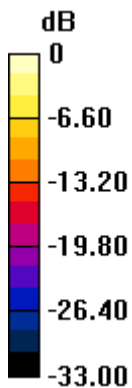
Peak SAR (extrapolated) = 36.4 W/kg

SAR(1 g) = 8.42 W/kg; SAR(10 g) = 2.35 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) = 17.9 W/kg



0 dB = 17.9 W/kg = 12.53 dBW/kg

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Date: 2022/7/10

Report No. : TESA2205000114E5**Dipole 5750 MHz_SN:1023**

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.199 \text{ S/m}$; $\epsilon_r = 35.149$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 15.7 W/kg

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

Reference Value = 54.88 V/m; Power Drift = -0.05 dB

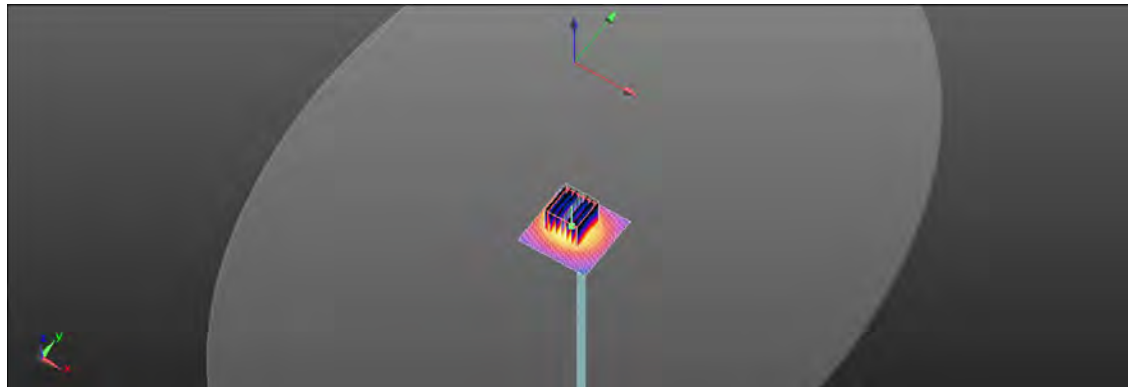
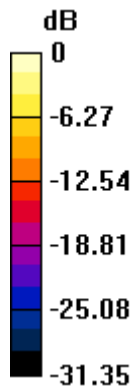
Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 7.35 W/kg; SAR(10 g) = 2.17 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.7%

Maximum value of SAR (measured) = 15.8 W/kg



0 dB = 15.8 W/kg = 12.00 dBW/kg

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Report No. :TESA2205000114E5

Measurement Report for Device, FRONT, Validation band,
CW, Channel 6500 (6500.0 MHz)_SN:1006

Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	6.2	6.097	34.697

Hardware Setup

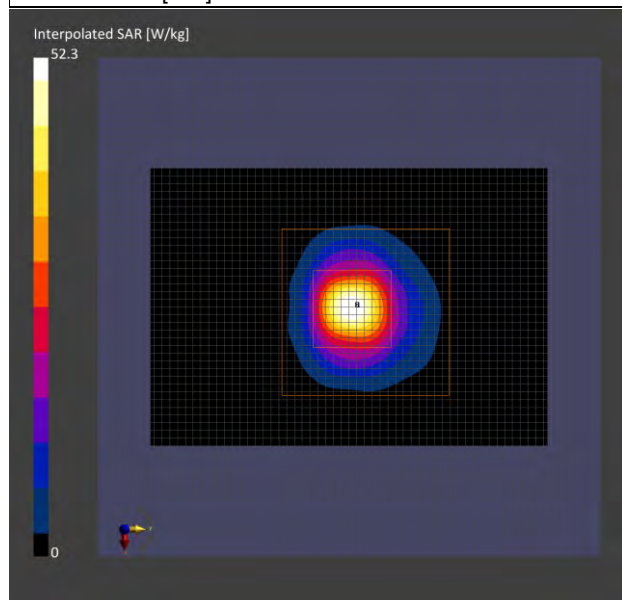
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-05	2022-07-05
psSAR1g [W/kg]	26.0	28.9
psSAR8g [W/kg]	6.01	6.41
psSAR10g [W/kg]	4.96	5.25
psPDab (4.0cm2, sq) [W/m2]		128
Power Drift [dB]	-0.04	-0.01
M2/M1 [%]		49.7
Dist 3dB Peak [mm]		4.6



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Report No. :TESA2205000114E5

Measurement Report for Device, FRONT, Validation band,
CW, Channel 6500 (6500.0 MHz)_SN:1006

Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	6.2	6.099	34.687

Hardware Setup

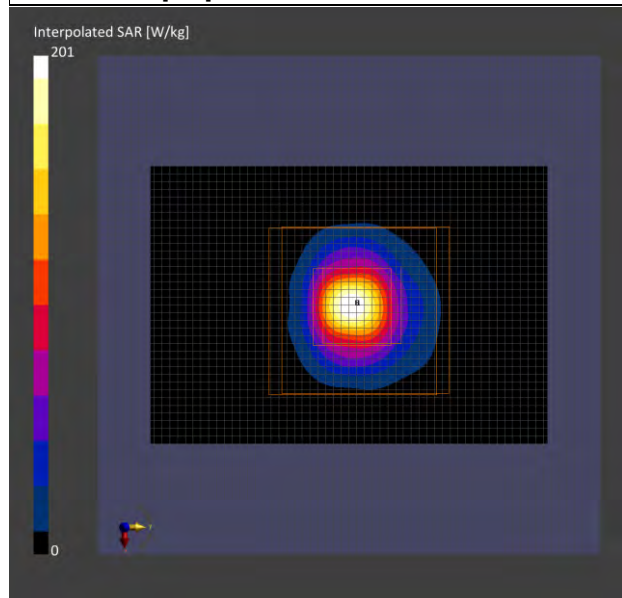
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	27.3	30.2
psSAR8g [W/kg]	6.36	6.55
psSAR10g [W/kg]	5.22	5.49
psPDab (4.0cm2, sq) [W/m2]		134
Power Drift [dB]	-0.05	-0.08
M2/M1 [%]		49.7
Dist 3dB Peak [mm]		4.8



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Report No. :TESA2205000114E5

Measurement Report for Device, FRONT, Validation band,
CW, Channel 7000 (7000.0 MHz)_SN:1007

Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	6.14	6.676	34.117

Hardware Setup

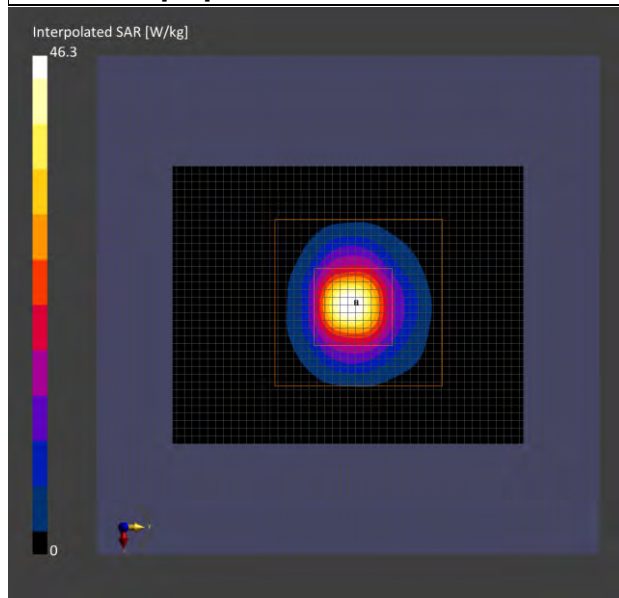
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06	2022-07-06
psSAR1g [W/kg]	24.0	25.2
psSAR8g [W/kg]	5.55	5.60
psSAR10g [W/kg]	4.43	4.47
psPDab (4.0cm2, sq) [W/m2]		109
Power Drift [dB]	0.05	0.15
M2/M1 [%]		46.8
Dist 3dB Peak [mm]		4.0



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14 PD SYSTEM CHECK RESULT

Report No. :TESA2205000114E5

Measurement Report for Device, FRONT, Validation band,
CW, Channel 10000 (10000.0 MHz)_SN:1021

Exposure Conditions

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

Hardware Setup

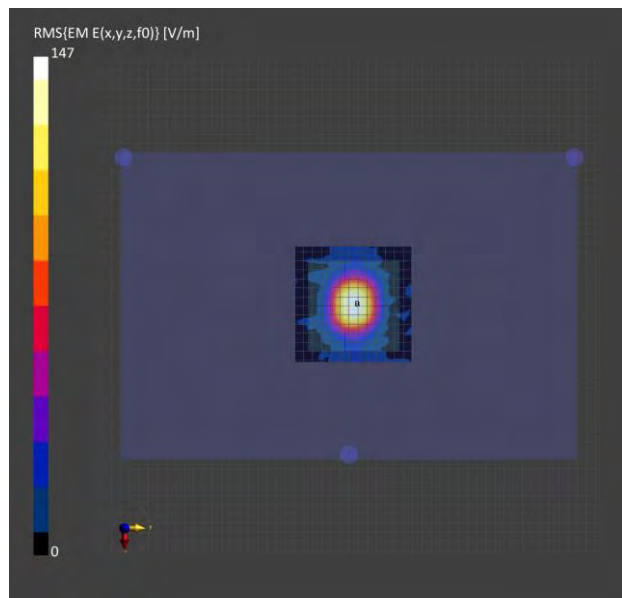
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-07-11
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	50.7
psPDtot+ [W/m ²]	51.2
psPDmod+ [W/m ²]	51.5
E _{max} [V/m]	144
Power Drift [dB]	0.01



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15 APPENDIXES

Refer to separated files for the following appendixes.

- 15.1 TESA2205000114E5 SAR_Appendix A Photographs
- 15.2 TESA2205000114E5 SAR_Appendix B DAE & Probe Cal. Certificate
- 15.3 TESA2205000114E5 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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