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RF Exposure report





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

Notebook Computer **Product Name**

HP **Brand Name**

TPN-W157 Model No.

HP Inc **Applicant**

1501 Page Mill Road Palo Alto, CA 94304

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

FCC ID B94-MT7921S

Date of EUT Receipt Sep. 27, 2023

Date of Test(s) Nov. 05, 2023 ~ Nov. 08, 2023

Date of Issue Dec. 01. 2023

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

Remarks:

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

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Signed on behalf of SGS

Clerk / Cindy Chou	PM / Afu Chen	Approved By / John Yeh
Cindy Chou	afor Chen	John Teh

Date: Dec. 01, 2023

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2309000529EN	00	Initial creation of document	Dec. 01, 2023	Cindy Chou	

N	oto	

1	The mark " *	" is the r	evised vers	on of the	renort du	ie to comment	s suhmitted h	v 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

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1.2 Description of EUT

Product Name	Notebook Computer				
Brand Name	HP				
Model No.	TPN-W157				
FCC ID	B94-MT7921S				
Integrated WLAN Module	Brand Name: MediaTek Model Name: MT7921				
Duty Cycle	WLAN802.11 Please refer to section 6				
Duty Cycle	Bluetooth	Please refer to section 6			
	802.11 b/g/n/ac/ax	2.4GHz (2400.0 – 2483.5 MHz)			
Supported radios (TX Frequency Range, 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)			

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Maximum value

Vendor1

VEHICOLE						
Summary of Maximum SAR						
Mode	Highest SAR 1g					
lviode	(W/kg)					
Bluetooth(GFSK)	0.1					
2.4G WLAN	0.33					
5G WLAN	0.48					

Vendor2

V C.1.G.G.1.2						
Summary of Maximum SAR						
Mada	Highest SAR 1g					
Mode	(W/kg)					
Bluetooth(GFSK)	0.22					
2.4G WLAN	0.4					
5G WLAN	0.25					

Antenna Information 1.4

Vendor	Vendor1									
Antenna		Ant1								
Part Number				025	5.9027U.0001(WA-P-LE-03-0	19)			
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.11	1.97	1.67	2.13	2.38	2.04	1.75	1.60	1.83	2.51
Antenna					Ar	nt2				
Part Number				025	5.9027T.0001(WA-P-LE-03-0	18)			
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.80	1.91	1.85	2.51	1.68	2.55	2.42	1.86	2.06	2.46
Vendor					Ven	dor2				
Antenna					Ar	nt1				
Part Number				025	5.9027X.0001(0ACAR02203	0N)			
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	0.59	1.00	2.19	1.68	2.05	2.24	2.97	2.97	2.87	2.93
Antenna	Ant2									
Part Number	025.9027W.0001(0ACAR022029N)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.03	2.76	2.50	2.87	0.64	0.52	2.89	2.89	1.68	1.51

Note: Antenna information is provided by the applicant.

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MEASUREMENT SYSTEM

2.1 **Test Facility**

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

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

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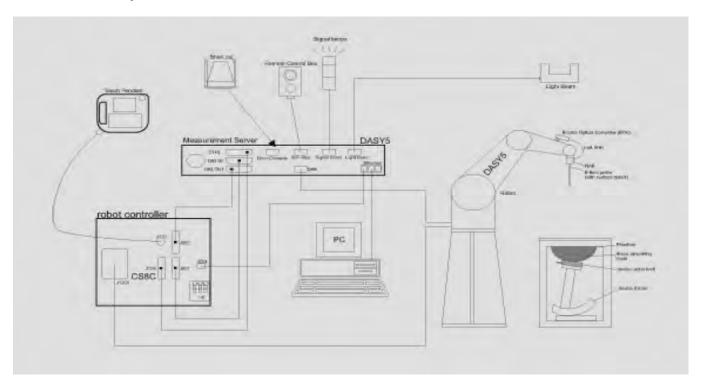


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2.2 SAR System

Block Diagram (DASY5)

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



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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 MHz Additional CF for other liquids and frequencies upon request
Frequency	10 MHz to > 6 GHz
Directivity	± 0.3 dB in HSL (rotation around probe axis)
	± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic	10 μW/g to > 100 mW/g
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Tip diameter: 2.5 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

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PHANTOM (ELI)

PHANTOW (E	· L I)	
Model	ELI	
Construction	The ELI phantom is used for complia mounted wireless devices in the frequent ELI is fully compatible with the IEC tissue simulating liquids. ELI has performance and can be integrated in cover prevents evaporation of the liphantom allow installation of the companion positions and measurement phantom is compatible with all SPEAC	uency range of 30 MHz to 6 GHz. 62209-2 standard and all known been optimized regarding its to our standard phantom tables. A quid. Reference markings on the plete setup, including all predefined grids, by teaching three points. The
Shell	2 ± 0.2 mm	
Thickness		1400
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm	I to servery were to the
	Minor axis: 400 mm	

DEVICE HOLDER

DEVICE HOLDE	=1 \	
Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin), which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	

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3 SAR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

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

3.2 Tissue Simulant Liquid measurement

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

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

3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ	Limit	Measurement Date
2412	39.265	1.766	40.080	1.780	2.08%	0.77%	± 5%	Nov. 05, 2023
2437	39.222	1.788	40.035	1.802	2.07%	0.76%	± 5%	Nov. 05, 2023
2450	39.200	1.800	40.012	1.814	2.07%	0.78%	± 5%	Nov. 05, 2023
2462	39.184	1.813	39.997	1.825	2.07%	0.67%	± 5%	Nov. 05, 2023
2480	39.160	1.832	39.974	1.841	2.08%	0.49%	± 5%	Nov. 05, 2023
5190	36.010	4.650	36.809	4.704	2.22%	1.17%	± 5%	Nov. 06, 2023
5210	35.990	4.670	36.786	4.725	2.21%	1.18%	± 5%	Nov. 06, 2023
5230	35.970	4.690	36.763	4.746	2.20%	1.19%	± 5%	Nov. 06, 2023
5250	35.950	4.710	36.741	4.767	2.20%	1.21%	± 5%	Nov. 06, 2023
5270	35.930	4.730	36.718	4.788	2.19%	1.23%	± 5%	Nov. 06, 2023
5290	35.910	4.750	36.695	4.809	2.19%	1.24%	± 5%	Nov. 06, 2023
5530	35.605	4.997	36.421	5.064	2.29%	1.35%	± 5%	Nov. 07, 2023
5600	35.500	5.070	36.341	5.137	2.37%	1.32%	± 5%	Nov. 07, 2023
5610	35.490	5.080	36.329	5.147	2.36%	1.32%	± 5%	Nov. 07, 2023
5680	35.420	5.150	36.249	5.221	2.34%	1.38%	± 5%	Nov. 07, 2023
5690	35.410	5.160	36.238	5.231	2.34%	1.38%	± 5%	Nov. 07, 2023
5745	35.355	5.215	36.169	5.295	2.30%	1.53%	± 5%	Nov. 08, 2023
5750	35.350	5.220	36.167	5.298	2.31%	1.49%	± 5%	Nov. 08, 2023
5775	35.325	5.245	36.141	5.321	2.31%	1.45%	± 5%	Nov. 08, 2023
5785	35.315	5.255	36.129	5.332	2.30%	1.47%	± 5%	Nov. 08, 2023
5825	35.275	5.296	36.095	5.373	2.32%	1.45%	± 5%	Nov. 08, 2023

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The composition of the tissue simulating liquid:

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

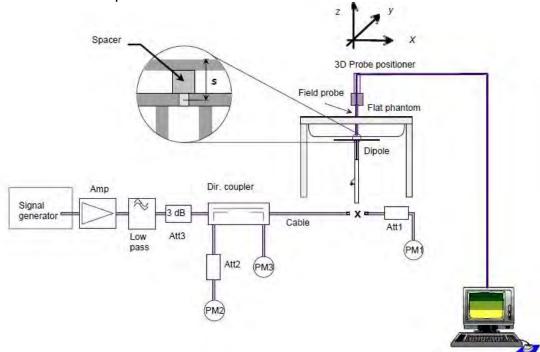
Broad-band head tissue simulating	SPEAG Product	Frequency range (MHz)	Main Ingredients
liquids	HBBL600- 10000V6	600 - 10000	Water, Oil

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

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	53.1	13.3	53.2	0.19	± 10%	Nov.05,2023
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1349	5250	80.4	8.07	80.7	0.37	± 10%	Nov.06,2023
D5GHzV2	1349	5600	83.1	8.49	84.9	2.17	± 10%	Nov.07,2023
D5GHzV2	1349	5750	81.4	8.11	81.1	-0.37	± 10%	Nov.08,2023

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4 TEST CONFIGURATIONS

4.1 Test Environment

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

4.2 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 W/kg, when the transmission band is \leq 100 MHz.
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- WLAN 2.4GHz: 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- WLAN 2.4GHz: 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- WLAN 5GHz: Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. Since the highest reported SAR for the initial test configuration is 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.

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Test position

Laptop mode SAR test position (0mm)

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

The antennas are located at the top of panel which the distance of antenna to human body is over 20cm, so SAR test is not required for notebook mode.

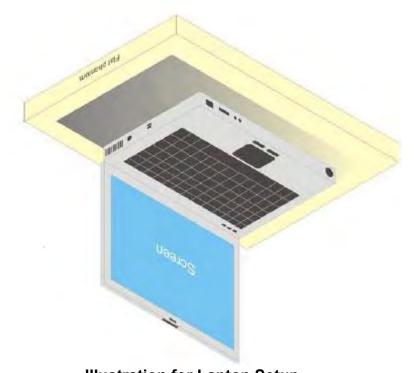


Illustration for Laptop Setup

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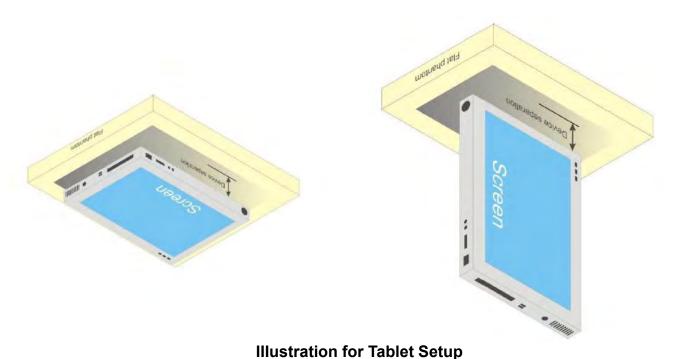
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Tablet mode SAR test position (0mm)

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



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Power verification of device mode

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

Results and conclusion

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

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Device mode verification by power measurement

Antenna	Operation mode	Lid angle	WLAN 802.11b	WLAN 802.11n(40M) 5.2G	WLAN 802.11n(40M) 5.3G	WLAN 802.11a 5.6G	WLAN 802.11a 5.8G
		0°	n/a	n/a	n/a	n/a	n/a
	Lid close	10°	n/a	n/a	n/a	n/a	n/a
	Liu ciose	20°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
	Lonton	40°	18.00	16.38	16.42	17.50	17.49
	Laptop	35°	18.00	16.36	16.45	17.35	17.50
		30°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
	Lid close	32°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
		34°	n/a	n/a	n/a	n/a	n/a
		35°	17.86	16.45	16.39	17.49	17.46
		36°	17.83	16.36	16.35	17.37	17.44
		37°	17.84	16.40	16.50	17.39	17.38
		38°	17.95	16.43	16.35	17.37	17.32
		38°	17.97	16.40	16.48	17.35	17.38
		39°	17.83	16.31	16.38	17.36	17.44
		40°	17.82	16.45	16.49	17.38	17.33
		50°	17.85	16.46	16.36	17.32	17.34
		60°	17.97	16.34	16.39	17.49	17.46
		70°	17.97	16.49	16.47	17.32	17.38
	1 🗁	80°	17.86	16.41	16.35	17.38	17.50
	Laptop	90°	17.93	16.43	16.33	17.31	17.42
		100°	17.92	16.46	16.45	17.32	17.37
		110°	18.00	16.49	16.49	17.31	17.39
		120°	17.89	16.33	16.46	17.40	17.49
		130°	17.89	16.46	16.35	17.47	17.45
		140°	18.00	16.47	16.50	17.49	17.44
		150°	17.98	16.46	16.43	17.32	17.48
		160°	17.92	16.36	16.48	17.36	17.38
Ant1		170°	17.82	16.48	16.36	17.46	17.42
		180°	17.88	16.46	16.48	17.34	17.32
		190°	17.89	16.47	16.35	17.48	17.44
	Tablet	200°	13.99	11.37	11.42	11.35	11.45
		195°	17.87	16.46	16.40	17.45	17.50
		196°	17.88	16.36	16.38	17.46	17.47
	Laptop	197°	18.00	16.42	16.43	17.45	17.48
	I ' '	198°	17.85	16.36	16.42	17.40	17.35
		199°	17.95	16.34	16.41	17.45	17.37
		200°	14.00	11.32	11.46	11.47	11.34
		201°	13.97	11.45	11.33	11.34	11.45
		202°	13.89	11.45	11.36	11.50	11.38
		203°	13.89	11.50	11.38	11.45	11.36
		204°	13.83	11.34	11.46	11.44	11.41
		205°	13.81	11.46	11.33	11.43	11.47
		215°	13.92	11.34	11.33	11.41	11.35
		225°	13.90	11.44	11.42	11.44	11.34
		235°	13.85	11.33	11.43	11.47	11.41
		245°	13.81	11.31	11.36	11.35	11.37
	I	255°	13.98	11.49	11.37	11.45	11.47
	Tablet	265°	13.86	11.40	11.31	11.50	11.38
		275°	13.91	11.40	11.34	11.39	11.49
		285°	13.90	11.33	11.33	11.39	11.37
		295°	13.94	11.45	11.37	11.37	11.35
		305°	13.93	11.32	11.34	11.34	11.35
		315°	13.87	11.31	11.45	11.45	11.48
	 	325°	13.85	11.33	11.37	11.48	11.42
	 	335°	13.96	11.48	11.38	11.39	11.42
	 	345°	13.90	11.50	11.50	11.48	11.37
	 	355°	13.93	11.37	11.42	11.32	11.39
	L	360°	13.98	11.47	11.34	11.46	11.41

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		350°	13.97	11.46	11.36	11.32	11.44
		340°	13.83	11.38	11.43	11.32	11.41
		330°	13.87	11.45	11.32	11.46	11.38
		320°	14.00	11.42	11.43	11.39	11.44
		310°	13.84	11.39	11.39	11.47	11.46
		300°	13.85	11.48	11.49	11.41	11.37
	_	290°	13.85	11.33	11.47	11.50	11.31
		280° 270°	14.00 13.97	11.46	11.49	11.49 11.34	11.39
	<u> </u>	270 260°	13.94	11.50 11.42	11.37 11.44	11.34	11.49 11.38
	Tablet	250°	13.95	11.38	11.31	11.49	11.31
	<u> </u>	240°	13.85	11.32	11.35	11.49	11.41
		230°	13.86	11.47	11.36	11.37	11.32
		220°	13.86	11.38	11.46	11.43	11.42
	-	210°	13.83	11.48	11.37	11.36	11.45
		200°	13.86	11.40	11.49	11.33	11.39
		190°	13.94	11.46	11.46	11.32	11.49
	-	180°	13.97	11.49	11.37	11.47	11.37
		170°	13.95	11.35	11.40	11.35	11.47
		160°	13.99	11.49	11.31	11.34	11.33
		150°	17.89	16.47	16.43	17.43	17.43
	Laptop	155°	17.91	16.35	16.34	17.45	17.39
	Tablet	160°	13.94	11.49	11.43	11.39	11.46
	IdDICL	159°	17.94	16.35	16.32	17.47	17.32
	 	158°	17.94	16.32	16.33	17.47	17.32
	<u> </u>	157°	17.94	16.43		17.36	17.34
		156°	17.94	16.43	16.45 16.33	17.36	17.37
		155°	17.89	16.49	16.46	17.42	17.42
		154°	17.93	16.33	16.31	17.33	17.34
		153°	17.91	16.31	16.32	17.31	17.31
		152°	17.89	16.31	16.34	17.34	17.35
Ant1	_	151°	17.94	16.34	16.45	17.35	17.50
	l ⊢	150°	17.84	16.42	16.39	17.36	17.44
	Laptop	140°	17.97	16.46	16.44	17.44	17.34
	L	130°	17.92	16.41	16.43	17.33	17.32
	L	120°	18.00	16.39	16.33	17.43	17.38
	L	110°	17.87	16.43	16.50	17.44	17.37
		100°	17.99	16.34	16.37	17.38	17.40
		90°	17.92	16.41	16.48	17.39	17.42
		80°	17.97	16.48	16.45	17.39	17.41
		70°	17.99	16.41	16.38	17.39	17.43
		60°	17.98	16.40	16.35	17.47	17.34
		50°	17.98	16.45	16.42	17.44	17.31
		40°	17.81	16.46	16.47	17.45	17.48
	Lid close	30°	n/a	n/a	n/a	n/a	n/a
		35°	17.84	16.32	16.32	17.32	17.42
	1 -	34°	17.86	16.36	16.31	17.43	17.43
	Laptop	33°	17.86	16.37	16.35	17.48	17.33
	⊢	32°	17.85	16.45	16.46	17.40	17.33
		31° 30°	17.88	16.42	16.37	17.39	17.46
	<u> </u>		n/a	n/a	n/a	n/a	n/a
	<u> </u>	29° 28°	n/a	n/a	n/a	n/a	n/a
	⊢	28° 27°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	⊢	27°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	<u> </u>	25°	n/a	n/a	n/a n/a	n/a	n/a n/a
	Lid close	15°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	Liu ciose	5°	n/a	n/a	n/a n/a	n/a	n/a n/a
	 	4°	n/a	n/a	n/a n/a	n/a	n/a n/a
	 	3°	n/a	n/a	n/a	n/a	n/a
	 	2°	n/a	n/a	n/a	n/a	n/a
	<u> </u>		n/a	n/a	n/a	n/a	n/a
	1 L						

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Antenna	Operation mode	Lid angle	WLAN 802.11b	WLAN 802.11n(40M) 5.2G	WLAN 802.11n(40M) 5.3G	WLAN 802.11a 5.6G	WLAN 802.11a 5.80
		0°	n/a	n/a	n/a	n/a	n/a
	Lid close	10°	n/a	n/a	n/a	n/a	n/a
	Lid Close	20°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
	Laptop	40°	17.90	16.50	16.32	17.35	17.49
	Laptop	35°	17.91	16.35	16.35	17.34	17.40
		30°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
	Lid close	32°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
		34°	n/a	n/a	n/a	n/a	n/a
		35°	17.96	16.39	16.32	17.31	17.31
		36°	17.94	16.38	16.39	17.38	17.36
		37°	17.89	16.48	16.32	17.34	17.50
		38°	17.95	16.43	16.41	17.40	17.45
		38°	17.85	16.46	16.50	17.50	17.40
		39°	17.92	16.50	16.46	17.40	17.46
		40°	17.97	16.32	16.33	17.48	17.34
		50°	18.00	16.38	16.45	17.42	17.32
		60°	17.88	16.49	16.37	17.33	17.34
		70°	17.88	16.40	16.33	17.37	17.50
	1 1	80°	17.93	16.39	16.46	17.36	17.33
	Laptop	90°	17.97	16.48	16.46	17.35	17.40
		100°	17.93	16.45	16.44	17.37	17.36
		110°	17.95	16.35	16.31	17.39	17.40
		120°	17.84	16.46	16.32	17.42	17.48
		130°	17.82	16.40	16.41	17.35	17.31
		140°	17.95	16.33	16.45	17.31	17.31
		150°	17.96	16.38	16.46	17.48	17.48
		160°	17.88	16.36	16.49	17.31	17.33
Ant2		170°	17.98	16.44	16.48	17.33	17.45
		180°	17.87	16.32	16.41	17.37	17.49
		190°	17.88	16.43	16.35	17.38	17.42
	Tablet	200°	13.89	11.32	11.39	11.50	11.46
		195°	17.89	16.33	16.44	17.36	17.42
		196°	17.93	16.33	16.50	17.40	17.36
	Laptop	197°	17.90	16.50	16.34	17.37	17.48
	Laptop	198°	17.91	16.42	16.37	17.32	17.38
		199°	17.92	16.40	16.43	17.32	17.31
		200°	13.87	11.43	11.36	11.50	11.48
		201°	13.94	11.32	11.49	11.42	11.50
		202°	13.95	11.46	11.48	11.37	11.48
		203°	13.96	11.48	11.42	11.43	11.44
		204°	13.98	11.35	11.31	11.45	11.33
		205°	13.83	11.43	11.44	11.32	11.47
		215°	13.87	11.31	11.43	11.34	11.47
		225°	13.82	11.50	11.41	11.39	11.42
		235°	13.87	11.36	11.42	11.49	11.45
		235 245°	14.00	11.50	11.37	11.37	11.37
		255°	13.84	11.48	11.41	11.40	11.38
	Tablet	265°	13.91	11.40	11.31	11.43	11.42
		275°	13.85	11.42	11.46	11.44	11.50
		285°	13.86	11.33	11.38	11.42	11.49
		295°	13.94	11.46	11.45	11.36	11.39
		305°	13.83	11.48	11.45	11.50	11.47
		315°	13.89	11.49	11.46	11.50	11.47
		315°	13.89	11.49	11.37	11.50	11.47
		325°	13.95	11.44	11.40		11.37
			13.90			11.42	
		345°		11.39	11.39	11.48	11.42
		355°	13.86	11.43	11.45	11.41	11.40
	I	360°	13.93	11.32	11.39	11.40	11.32

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		350° 340°	13.89 13.94	11.49	11.34	11.44	11.31
		340°					
ŀ				11.40	11.36	11.40	11.46
		330°	13.92	11.38	11.44	11.34	11.37
		320°	13.99	11.45	11.49	11.33	11.36
		310°	13.86	11.39	11.39	11.31	11.43
		300°	13.95	11.41	11.41	11.49	11.35
		290°	13.84	11.38	11.31	11.39	11.32
		280°	13.89	11.50	11.42	11.32	11.49
		270°	13.91	11.45	11.31	11.44	11.35
	Tablet	260°	13.93	11.36	11.48	11.38	11.42
		250° 240°	13.81 13.93	11.47 11.32	11.46 11.46	11.34 11.31	11.48 11.33
		230°		11.42		11.44	11.42
		230°	13.87 13.91	11.31	11.32 11.33	11.44	11.42
		210°	13.92	11.34	11.50	11.36	11.40
		200°	13.87	11.47	11.37	11.41	11.46
		190°	13.97	11.35	11.49	11.41	11.32
		180°	13.82	11.47	11.33	11.39	11.49
		170°	13.94	11.47	11.42	11.42	11.49
		160°	13.87	11.50	11.50	11.34	11.48
							
	Laptop	150°	17.85	16.43	16.47	17.48	17.49
		155°	17.97	16.45	16.45	17.39	17.36
	Tablet	160°	13.94	11.48	11.49	11.32	11.40
		159°	17.86	16.48	16.32	17.42	17.41
		158°	17.86	16.46	16.40	17.48	17.44
		157°	17.97	16.48	16.35	17.37	17.38
		156°	17.83	16.32	16.48	17.47	17.45
		155°	17.92	16.32	16.34	17.46	17.37
		154°	17.99	16.46	16.39	17.48	17.41
		153°	17.93	16.44	16.38	17.33	17.45
		152°	18.00	16.38	16.35	17.37	17.36
Ant2		151°	17.96	16.49	16.50	17.37	17.50
		150°	17.98	16.32	16.32	17.37	17.39
	Laptop	140°	17.83	16.46	16.40	17.39	17.32
		130°	17.83	16.45	16.38	17.33	17.46
		120°	17.82	16.40	16.32	17.37	17.34
		110°	17.93	16.42	16.42	17.32	17.46
		100°	17.95	16.48	16.41	17.48	17.45
		90°	17.98	16.38	16.41	17.43	17.48
		80°	17.93	16.43	16.33	17.38	17.31
		70°	17.94	16.35	16.45	17.41	17.39
		60°	17.92	16.31	16.41	17.35	17.41
		50°	17.95	16.38	16.45	17.43	17.47
		40°	18.00	16.40	16.42	17.39	17.47
	Lid close	30°	n/a	n/a	n/a	n/a	n/a
ļ	Liu ciose	35°	17.99	16.45	16.38	17.40	17.50
ļ	l	34°	17.87	16.41	16.42	17.48	17.36
ļ	Laptop	33°	17.88	16.46	16.36	17.46	17.37
ļ	Сартор	32°	17.91	16.43	16.47	17.45	17.39
ļ		31°	17.90	16.39	16.32	17.45	17.44
ļ		30°	n/a	n/a	n/a	n/a	n/a
	l						
ļ		29°	n/a	n/a	n/a	n/a	n/a
ļ		28° 27°	n/a	n/a	n/a	n/a	n/a
ļ			n/a	n/a	n/a	n/a	n/a
		26°	n/a	n/a	n/a	n/a	n/a
ļ	Lid close	25°	n/a	n/a	n/a	n/a	n/a
ļ	Liu ciose	15°	n/a	n/a	n/a	n/a	n/a
ļ	l	5°	n/a	n/a	n/a	n/a	n/a
ļ	l	4°	n/a	n/a	n/a	n/a	n/a
	l	3° 2°	n/a	n/a	n/a	n/a	n/a
			n/a	n/a	n/a n/a	n/a n/a	n/a n/a
ŀ	1	1°	n/a	n/a			

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§ 2.1093(d)(1)

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

§ 1.1310(a)

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

§ 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits. § 1.1310(c)

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

Note to paragraphs (a) through (c):

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

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

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

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

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

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

f = frequency in MHz. * = Plane-wave equivalent power density. Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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MAXIMUM OUTPUT POWER

5.1 **WLAN**

Notebook mode

mode						
			Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
	802.11b	1 6 11	2412 2437 2462	1Mbps	19.00 19.00 19.00	18.97 18.93 18.82
	002	12 13	2467 2472	·	15.50 9.00	15.26 8.76
		1 2 6	2412 2417 2437		17.00 17.50 18.00	16.78 17.34 17.85
	802.11g	10 11 12	2457 2462 2467	6Mbps	17.50 16.50 10.50	17.31 16.28 10.34
		13 1 2	2472 2412 2417		6.00 17.00 17.50	5.82 16.76 17.31
	802.11n20-HT0	6 10 11	2437 2457 2462	MCS0	18.00 17.50 16.50	17.80 17.30 16.31
		12 13 1	2467 2472 2412	-	10.50 6.00 17.00	10.31 5.77 16.78
	802.11ac20-VHT0	6 10	2417 2437 2457	MCS0	17.50 18.00 17.50	17.29 17.79 17.26
		11 12 13	2462 2467 2472] -	16.50 10.50 6.00	16.32 10.32 5.81
2.45GHz		1 2 6	2412 2417 2437	-	17.00 17.50 18.00	16.80 17.26 17.83
	802.11ax20-HE0	10 11 12	2457 2462 2467	MCS0	17.50 16.50 10.50	17.27 16.34 10.34
		13 3 4	2472 2422 2427		6.00 15.00 15.50	5.77 14.82 15.30
	802.11n40-HT0	6 8 9	2437 2447 2452	MCS0	16.00 15.50 15.00	15.78 15.27 14.81
		10 11 3	2457 2462 2422		8.50 6.50 15.00	8.30 6.34 14.77
	802.11ac40-VHT0	4 6 8	2427 2437 2447	MCS0	15.50 16.00 15.50	15.29 15.82 15.28
		9 10 11	2452 2457 2462	-	15.00 8.50 6.50	14.85 8.29 6.31
		3 4 6	2422 2427 2437	<u> </u>	15.00 15.50 16.00	14.80 15.34 15.78
	802.11ax40-HE0	8 9 10	2447 2452 2457	MCS0	15.50 15.00 8.50	15.28 14.81 8.33
		11	2462		6.50	6.28

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			Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		16.00	15.97
	802.11a	40	5200	6Mbps	17.00	16.92
	002.11a	44	5220	OWIDPS	17.50	17.49
		48	5240		18.00	17.98
		36	5180		16.00	15.76
	802.11n20-HT0	40	5200 5220	MCS0	17.00 17.50	16.84 17.33
		48	5240	-	18.00	17.77
		36	5180		16.00	15.84
	000 4400 \ // ITO	40	5200	MOCO	17.00	16.83
	802.11ac20-VHT0	44	5220	MCS0	17.50	17.30
5.15-5.25 GHz		48	5240		18.00	17.81
3.13-3.23 GHZ		36	5180	_	16.00	15.80
	802.11ax20-HE0	40	5200	MCS0	17.00	16.78
	002.114320-1120	44	5220		17.50	17.34
		48	5240		18.00	17.79
	802.11n40-HT0	38	5190	MCS0	15.00	14.77
		46	5230	-	17.50 15.00	17.31
	802.11ac40-VHT0	38 46	5190 5230	MCS0	17.50	14.78 17.32
		38	5190		15.00	14.85
	802.11ax40-HE0	46	5230	MCS0	17.50	17.28
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.79
	802.11ax80-HE0	42	5210	MCS0	14.00	13.78
		T '	Ant 1			
Band	Mode	Channel	Frequency	Data Rate	Max. Rated Avg. Power + Max.	ŭ
Band	Mode			Data Rate	•	Average power (dBm)
Band	Mode		Frequency	Data Rate	Power + Max.	power
Band		Channel	Frequency (MHz)		Power + Max. Tolerance (dBm)	power (dBm)
Band	Mode 802.11a	Channel 52 56 60	Frequency (MHz) 5260 5280 5300	Data Rate	Power + Max. Tolerance (dBm) 18.50 18.00 18.00	power (dBm) 18.47 17.93 17.99
Band		Channel 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320		Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50	power (dBm) 18.47 17.93 17.99 15.46
Band		52 56 60 64 52	Frequency (MHz) 5260 5280 5300 5320 5260		Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50	power (dBm) 18.47 17.93 17.99 15.46 18.35
Band		52 56 60 64 52 56	Frequency (MHz) 5260 5280 5300 5320 5260 5280		Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50 18.50	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84
Band	802.11a	52 56 60 64 52 56 60	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300	6Mbps	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50 18.50 18.00 18.00	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81
Band	802.11a	52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320	6Mbps	Power + Max. Tolerance (dBm) 18.50 18.00 15.50 18.00 18.00 18.50 18.00 15.50	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81
Band	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260	6Mbps MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 15.50 18.00 18.50 18.50 18.00 15.50 18.00 15.50	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34
Band	802.11a	52 56 60 64 52 56 60 64 52 56	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280	6Mbps	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.50 18.00 18.00 18.00 18.50 18.00	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34 17.85
	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52 56 60	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300	6Mbps MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.00 15.50 18.00 15.50 18.00 18.00 18.00	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 15.26 18.34 17.85 17.85
Band 5.25-5.35 GHz	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52 56	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280	6Mbps MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.50 18.00 18.00 18.00 18.50 18.00	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34 17.85
	802.11a 802.11n20-HT0 802.11ac20-VHT0	52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5300 5320 5280 5300 5320	6Mbps MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.00 15.50 18.00 18.00 18.50 18.50 18.50	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 15.26 18.34 17.85 17.82
	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5320 5320 5260 5280 5300 5320 5260 5280	6Mbps MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 18.50 18.50 18.50 18.00 15.50 18.50 18.50 18.50 18.50 18.50 18.50	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34 17.85 17.82 15.29
	802.11a 802.11n20-HT0 802.11ac20-VHT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5320 5260 5280 5300 5320 5280 5300 5320	6Mbps MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.00 15.50 18.00 15.50 18.50 18.00 18.00 18.00 18.00 18.00	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34 17.85 17.82 15.29 18.30 17.76
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60	Frequency (MHz) 5260 5280 5300 5320 5260 5320 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5300 5320 5260 5300	6Mbps MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.00 15.50 18.00 18.00 18.00 18.00 18.50 18.00 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34 17.85 17.82 15.29 18.30 17.76 17.79
	802.11a 802.11n20-HT0 802.11ac20-VHT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5320 5280 5300 5320 5280 5320 5320 5280 5320 5280 5320	6Mbps MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.50 18.00 15.50 18.50 18.00 18.00 15.50 18.00 15.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34 17.85 17.82 15.29 18.30 17.76 17.79 15.32 17.28
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5270 5310 5270	6Mbps MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 18.50 18.50 18.50 18.00 15.50 18.50 18.00 18.00 15.50 18.00 15.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 17.50	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34 17.85 17.82 15.29 18.30 17.76 17.79 15.32 17.28 14.86 17.33
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0	Channel 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 54 62 54 62	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5320 5280 5320 5280 5320 5280 5320 5280 5310 5270 5310	6Mbps MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50 18.00 15.50 18.00 15.50 18.00 15.50 18.00 15.50 18.50 18.00 15.50 18.00 15.50 18.00 15.50 17.50 15.50 17.50 15.00	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34 17.85 17.82 15.29 18.30 17.76 17.79 15.32 17.28 14.86 17.33 14.93
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 60 64 60 60 60 60 60 60 60 60 60 60 60 60 60	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5300 5320 5260 5280 5300 5320 5270 5310 5270 5310 5270	6Mbps MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.00 15.50 18.00 18.00 15.50 18.00 15.50 18.50 18.00 15.50 18.00 17.50 17.50 15.00 17.50 15.00 17.50	(dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34 17.85 17.82 15.29 18.30 17.76 17.79 15.32 17.28 14.86 17.33 14.93
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0 802.11ac40-VHT0	Channel 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 54 62 54 62	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5320 5280 5320 5280 5320 5280 5320 5280 5310 5270 5310	6Mbps MCS0 MCS0 MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50 18.00 15.50 18.00 15.50 18.00 15.50 18.00 15.50 18.50 18.00 15.50 18.00 15.50 18.00 15.50 17.50 15.50 17.50 15.00	power (dBm) 18.47 17.93 17.99 15.46 18.35 17.84 17.81 15.26 18.34 17.85 17.82 15.29 18.30 17.76 17.79 15.32 17.28 14.86 17.33 14.93

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			Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100 104	5500 5520		16.50 17.50	16.26 17.48
		116	5580		18.50	18.45
	802.11a	120	5600	6Mbps	18.50	18.40
		136	5680		18.50	18.46
		140	5700		17.50	17.27
		144	5720		18.50	18.29
		100	5500		16.50	16.29
		104	5520	4	17.50	17.26
		116	5580		18.50	18.33
	802.11n20-HT0	120	5600	MCS0	18.50	18.31
		136	5680	4	18.50	18.30
		140	5700	<u> </u>	17.50	17.30
		144	5720		18.50	18.29
		100	5500	4	16.50	16.29
		104	5520	4	17.50	17.33
	802.11ac20-VHT0	116	5580	MOCO	18.50	18.26
		120	5600	MCS0	18.50	18.33
		136	5680	4	18.50	18.33
		140	5700	4	17.50	17.35
		144	5720		18.50	18.26
		100	5500	4	16.50	16.27
		104	5520	4	17.50	17.33
5.6GHz	802.11ax20-HE0	116	5580	MCS0	18.50	18.30
3.0GHZ	602.11ax20-nE0	120	5600		18.50	18.34
		136	5680	4	18.50	18.35
		140	5700	4	17.50	17.34
		144	5720		18.50	18.26
		102	5510	4	16.50 17.50	16.32
	802.11n40-HT0	110 118	5550	MCS0		17.28 17.34
	802.11140-H10	134	5590	IVICSU	17.50	
		142	5670 5710	-	17.50 17.50	17.26 17.26
		102	5510		16.50	16.35
		110	5550		17.50	17.26
	802.11ac40-VHT0	118	5590	MCS0	17.50	17.20
	002.11a040-V1110	134	5670	WICOU	17.50	17.28
		142	5710	-	17.50	17.34
		102	5510	+	16.50	16.33
		110	5550	1	17.50	17.35
	802.11ax40-HE0	118	5590	MCS0	17.50	17.34
		134	5670	1	17.50	17.30
		142	5710	1	17.50	17.35
		106	5530	1	14.50	14.35
	802.11ac80-VHT0	122	5610	MCS0	16.50	16.33
		138	5690	1	16.50	16.28
		106	5530		14.50	14.30
	802.11ax80-HE0	122	5610	MCS0	16.50	16.32
		138	5690	1	16.50	16.29

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		A	Ant 1			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		18.50	18.44
	802.11a	157	5785	6Mbps	18.50	18.49
		165	5825	1 1	18.50	18.49 18.42 18.31 18.35
		149	5745	18.50 18.50 MCS0 18.50 18.50	18.31	
	802.11n20-HT0	157	5785		18.50	18.35
		165	5825		18.50	18.34
		149	5745		18.50	18.30
	802.11ac20-VHT0	157	5785	MCS0	18.50	18.32
		165	5825	1	18.50	18.30
5.8GHz		149	5745		18.50	18.28
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	18.50	18.26
		165	5825	1	18.50	18.35
	802.11n40-HT0	151	5755	MCS0	17.50	17.31
	002.11N4U-F1U	159	5795	IVICSU	17.50	17.30
	802.11ac40-VHT0	151	5755	MCS0	17.50	17.32
	002.11dC40-VH10	159	5795	IVICSU	17.50	17.25
	802.11ax40-HE0	151	5755	MCS0	17.50	17.27
	ου2.118X4U-ΠΕU	159	5795	IVICSU	17.50	17.30
	802.11ac80-VHT0	155	5775	MCS0	16.50	16.28
	802.11ax80-HE0	155	5775	MCS0	16.50	16.30

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			Ant 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		19.00	18.90
		6	2437		19.00	18.98
	802.11b	11	2462	1Mbps	19.00	18.88
		12	2467		15.50	15.34
		13	2472		9.00	8.80
		1	2412	_	17.00	16.77
		2	2417	4	17.50	17.34
	802.11g	6	2437	6Mbps	18.00	17.83
	002.11g	10 11	2457 2462	Olvibps	17.50 16.50	17.32 16.29 10.30 5.81
		12	2467		10.50	
		13	2472		6.00	
		1	2412		17.00	16.80
		2	2417		17.50	17.29
		6	2437		18.00	17.85
	802.11n20-HT0	10	2457	MCS0	17.50	17.34
		11	2462		16.50	16.31
		12	2467		10.50	10.35
		13	2472		6.00	5.83
		1	2412		17.00	16.77
		2	2417		17.50	17.33
		6	2437		18.00	17.77
	802.11ac20-VHT0	10	2457	MCS0	17.50	17.29
		11	2462	-	16.50	16.34
		12	2467		10.50	10.33
		13	2472		6.00	5.76
2.45GHz		2	2412 2417		17.00 17.50	16.81 17.33
		6	2437	_	18.00	17.84
	802.11ax20-HE0	10	2457	MCS0	17.50	17.29
	002.110/201120	11	2462		16.50	16.27
		12	2467		10.50	10.29
		13	2472		6.00	5.83
		3	2422		15.00	14.84
		4	2427		15.50	15.28
		6	2437		16.00	15.78
	802.11n40-HT0	8	2447	MCS0	15.50	15.30
		9	2452		15.00	14.76
		10	2457		8.50	8.26
		11	2462		6.50	6.34
		3	2422	<u> </u>	15.00	14.81
		4	2427	4	15.50	15.31
	000 4440 \/\\\	6	2437	Moss	16.00	15.76
	802.11ac40-VHT0	8	2447	MCS0	15.50	15.32
		9 10	2452 2457	1	15.00 8.50	14.80 8.26
		11	2462	1	6.50	6.30
		3	2402		15.00	14.81
		4	2427	1 !	15.50	15.27
		6	2437	1	16.00	15.78
	802.11ax40-HE0	8	2447	MCS0	15.50	15.34
		9	2452	1	15.00	14.84
		10	2457		8.50	8.28
		11	2462		6.50	6.32

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			Ant 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		16.00	15.60
	802.11a	40	5200	GMbpa	17.00	16.98
	002.11a	44	5220	6Mbps	17.50	17.47
		48	5240		18.00	17.88
		36	5180	4	16.00	15.81
	802.11n20-HT0	40	5200	MCS0	17.00	16.76
		44	5220	4	17.50	17.31
		48	5240		18.00	17.76
		36 40	5180 5200	-	16.00 17.00	15.74 16.85
	802.11ac20-VHT0	44	5200	MCS0	17.50	17.33
		48	5240	1	18.00	17.85
5.15-5.25 GHz		36	5180	+	16.00	15.76
		40	5200	† }	17.00	16.84
	802.11ax20-HE0	44	5220	MCS0	17.50	17.29
	002.11420-1120	48	5240	1	18.00	17.77
	000 44 40 1170	38	5190	11000	15.00	14.82
	802.11n40-HT0	46	5230	MCS0	17.50	17.35
	000 44 40 \ // ITO	38	5190	14000	15.00	14.78
	802.11ac40-VHT0	46	5230	MCS0	17.50	17.32
	000 4440 1150	38	5190	MOCO	15.00	14.84
	802.11ax40-HE0	46	5230	MCS0	17.50	17.29
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.76
	802.11ax80-HE0	42	5210	MCS0	14.00	13.77
			Ant 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
Band	Mode		Frequency (MHz)	Data Rate	Power + Max. Tolerance (dBm)	power (dBm)
Band		52	Frequency (MHz)		Power + Max. Tolerance (dBm)	power (dBm)
Band	Mode 802.11a	52 56	Frequency (MHz) 5260 5280	Data Rate	Power + Max. Tolerance (dBm) 18.50 18.00	power (dBm) 18.40 17.83
Band		52	Frequency (MHz)		Power + Max. Tolerance (dBm)	power (dBm) 18.40 17.83 17.80
Band		52 56 60	Frequency (MHz) 5260 5280 5300		Power + Max. Tolerance (dBm) 18.50 18.00 18.00	power (dBm) 18.40 17.83
Band	802.11a	52 56 60 64	Frequency (MHz) 5260 5280 5300 5320	6Mbps	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50	power (dBm) 18.40 17.83 17.80 15.37
Band		52 56 60 64 52	Frequency (MHz) 5260 5280 5300 5320 5260		Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50	power (dBm) 18.40 17.83 17.80 15.37 18.31
Band	802.11a	52 56 60 64 52 56	Frequency (MHz) 5260 5280 5300 5320 5260 5280	6Mbps	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50 18.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79
Band	802.11a	52 56 60 64 52 56 60	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300	6Mbps	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50 18.00 18.00	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82
Band	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5320 5320 5260 5280	6Mbps MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 15.50 18.00 18.00 18.00 18.00 15.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35
Band	802.11a	52 56 60 64 52 56 60 64 52	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5320 5260	6Mbps	Power + Max. Tolerance (dBm) 18.50 18.00 15.50 18.00 18.00 18.50 18.00 18.00 18.00	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33
	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280	6Mbps MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.00 15.50 18.00 18.50 18.50 18.50 18.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26
Band 5.25-5.35 GHz	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52 56 60 64 52	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5320 5320 5260 5280 5300 5320 5260 5280	6Mbps MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.50 18.50 18.50 18.00 15.50 18.00 18.50 18.50 18.50 18.50 18.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26
	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5320 5260 5280 5300 5320 5280 5300 5320	6Mbps MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.00 15.50 18.00 15.50 18.50 18.00 18.00 18.00 18.00 18.00	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26 18.28 17.79
	802.11a 802.11n20-HT0 802.11ac20-VHT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5320 5280 5300 5320 5280 5300 5320 5260 5300 5320 5300 5320 5300 5320	6Mbps MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 15.50 18.50 18.00 15.50 18.00 15.50 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26 18.28 17.79
	802.11a 802.11n20-HT0 802.11ac20-VHT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5320 5260 5320	6Mbps MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50 18.00 15.50 18.50 18.00 15.50 18.00 15.50 18.00 15.50 18.00 15.50 18.00 15.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26 18.28 17.79 17.75
	802.11a 802.11n20-HT0 802.11ac20-VHT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5270	6Mbps MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.00 15.50 18.00 18.00 18.00 18.00 18.50 18.00 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26 18.28 17.79 17.75 15.32 17.34
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 60 64 52 56 60 60 60 60 60 60 60 60 60 6	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5310	6Mbps MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.00 18.50 18.00 15.50 18.50 18.00 18.00 15.50 18.00 15.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26 18.28 17.79 17.75 15.32 17.34 14.87
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 60 64 52 56 60 60 60 60 60 60 60 60 60 6	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5320 5280 5320 5280 5320 5280 5320 5280 5310 5320 5270 5310	6Mbps MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 18.50 18.50 18.50 18.00 15.50 18.50 18.00 15.50 18.00 15.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 17.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26 18.28 17.75 15.32 17.34 14.87 17.26
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 60 64 52 56 60 60 64 52 56 60 60 60 60 60 60 60 60 60 6	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5320 5280 5320 5280 5320 5280 5320 5280 5310 5320 5270 5310	6Mbps MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50 18.00 15.50 18.00 15.50 18.00 15.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26 18.28 17.79 17.75 15.32 17.34 14.87 17.26 14.84
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 60 64 52 56 60 60 64 54 54 60 60 60 60 60 60 60 60 60 60	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5320 5260 5280 5300 5320 5270 5310 5270 5310 5270	6Mbps MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50 18.00 15.50 18.50 18.00 15.50 18.00 15.50 18.50 18.00 15.50 18.00 17.50 17.50 15.00 17.50 15.00 17.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26 18.28 17.79 17.75 15.32 17.34 14.87 17.26 14.84 17.32
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0 802.11ac40-VHT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 60 64 52 56 60 60 64 52 56 60 60 60 60 60 60 60 60 60 6	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5320 5280 5320 5280 5320 5280 5320 5280 5310 5320 5270 5310	6Mbps MCS0 MCS0 MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 18.50 18.00 18.00 15.50 18.50 18.00 15.50 18.00 15.50 18.00 15.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50	power (dBm) 18.40 17.83 17.80 15.37 18.31 17.79 17.82 15.35 18.33 17.84 17.80 15.26 18.28 17.79 17.75 15.32 17.34 14.87 17.26 14.84

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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			Ant 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100 104	5500 5520		16.50 17.50	16.35 17.47
		116	5580		18.50	18.41
	802.11a	802.11a 120 5600 6Mbps	18.50	18.34		
		136	5680		18.50	18.45
		140	5700		17.50	17.26
		144	5720		18.50	18.33
		100	5500		16.50	16.29
		104	5520		17.50	17.35
		116	5580		18.50	18.26
	802.11n20-HT0	120	5600	MCS0	18.50	18.34
		136	5680		18.50	18.32
		140	5700		17.50	17.27
		144	5720		18.50	18.27
		100	5500	MCS0 18.50 MCS0 18.50 17.50 18.50 18.50 17.50 18.50	16.31	
	802.11ac20-VHT0	104	5520		17.50	17.35
		116	5580		18.50	18.27
		120	5600		18.50	18.30
		136	5680		18.50	18.30
		140	5700		17.50	17.26
		144	5720			18.26
		100	5500	MCS0	16.50	16.34
		104	5520		17.50	17.28
		116	5580		18.50	18.30
5.6GHz	802.11ax20-HE0	120	5600		18.50	18.32
		136	5680		18.50	18.35
		140	5700		17.50	17.33
		144	5720		18.50	18.33
		102	5510		16.50	16.31
		110	5550		17.50	17.35
	802.11n40-HT0	118	5590	MCS0	17.50	17.30
		134	5670		17.50	17.33
		142	5710		17.50	17.29
		102	5510		16.50	16.31
		110	5550		17.50	17.30
	802.11ac40-VHT0	118	5590	MCS0	17.50	17.27
		134	5670]	17.50	17.35
		142	5710]	17.50	17.27
		102	5510		16.50	16.26
		110	5550]	17.50	17.31
	802.11ax40-HE0	118	5590	MCS0	17.50	17.34
		134	5670]	17.50	17.35
		142	5710]	17.50	17.30
		106	5530		14.50	14.31
	802.11ac80-VHT0	122	5610	MCS0	16.50	16.33
		138	5690	1	16.50	16.29
		106	5530		14.50	14.26
	802.11ax80-HE0	122	5610	MCS0	16.50	16.27
		138	5690	1	16.50	16.26

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		A	Ant 2			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Averag power (dBm)
		149	5745		18.50	18.38
	802.11a	157	5785	6Mbps	18.50	18.48
		165	5825		18.50	18.34
		149	5745		18.50	18.30
	802.11n20-HT0	157	5785	MCS0	18.50	18.33
		165	5825		18.50	18.34
		149	5745	MCS0	18.50	18.29
	802.11ac20-VHT0	157	5785		18.50	18.33
		165	5825		18.50	18.27
5.8GHz		149	5745		18.50	18.24
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	18.50	18.32
		165	5825		18.50	18.27
	802.11n40-HT0	151	5755	MCS0	17.50	17.30
	002.111 14 0-1110	159	5795	IVICSU	17.50	17.29
	802.11ac40-VHT0	151	5755	MCCO	17.50	17.32
	002.11aC40-VH10	159	5795	MCS0	17.50	17.30
	802.11ax40-HE0	151	5755	MCS0	17.50	17.29
	002.118X40-HE0	159	5795	IVICSU	17.50	17.25
	802.11ac80-VHT0	155	5775	MCS0	16.50	16.27
	802.11ax80-HE0	155	5775	MCS0	16.50	16.29

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Tablet mode

le			Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		15.00	14.99
		6	2437		15.00	14.82
	802.11b	11	2462	1Mbps	15.00	14.95
		12	2467		15.00	14.88
		13	2472		9.00	8.85
		1	2412		15.00	14.91
		6	2437		15.00	14.88
	802.11g	11	2462	6Mbps	15.00	14.93
		12	2467		10.50	10.32
		13	2472		6.00	5.80
		1	2412		15.00	14.86
		6	2437		15.00	14.86
	802.11n20-HT0	11	2462	MCS0	15.00	14.94
		12	2467		10.50	10.29
		13	2472		6.00	5.79
	000 4400 1/4/170	1	2412	_	15.00	14.79
		6	2437	MOCO	15.00	14.80
	802.11ac20-VHT0	11 12	2462	MCS0	15.00	14.92
		13	2467	4	10.50	10.29 5.84
2.45GHz		13	2472 2412	MCS0	6.00 15.00	14.89
		6	2437		15.00	14.81
	802.11ax20-HE0	11	2462		15.00	14.88
	002.11dA20-1120	12	2467	10000	10.50	10.35
		13	2472		6.00	5.82
		3	2422		15.00	14.86
		6	2437	1	15.00	14.88
	802.11n40-HT0	9	2452	MCS0	15.00	14.89
		10	2457	1	8.50	8.33
		11	2462	1	6.50	6.32
		3	2422		15.00	14.84
		6	2437	1	15.00	14.83
	802.11ac40-VHT0	9	2452	MCS0	15.00	14.93
		10	2457		8.50	8.32
		11	2462		6.50	6.30
		3	2422		15.00	14.80
		6	2437	1	15.00	14.93
	802.11ax40-HE0	9	2452	MCS0	15.00	14.89
		10	2457	1	8.50	8.28
		11	2462		6.50	6.32

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			Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		12.50	12.34
	802.11a	40	5200	6Mbps	12.50	12.35
	002.11a	44	5220	Olvibps	12.50	12.33
		48	5240		12.50	12.35
		36	5180	4	12.50	12.34
	802.11n20-HT0	40 44	5200 5220	MCS0	12.50 12.50	12.34 12.37
		48	5240	1	12.50	12.37
		36	5180		12.50	12.28
	000 44 00 1/1/170	40	5200		12.50	12.37
	802.11ac20-VHT0	44	5220	MCS0	12.50	12.36
5.15-5.25 GHz		48	5240		12.50	12.31
5.15-5.25 GHZ		36	5180		12.50	12.34
	802.11ax20-HE0	40	5200	MCS0	12.50	12.37
	002.11dX20-11E0	44	5220	1,1000	12.50	12.34
		48	5240		12.50	12.29
	802.11n40-HT0	38	5190	MCS0	12.50	12.36
		46	5230		12.50	12.35
	802.11ac40-VHT0	38	5190	MCS0 12.50 12.50		12.34
		46	5230			12.28
	802.11ax40-HE0	38	5190	MCS0	12.50	12.37
	802.11ac80-VHT0	46 42	5230 5210	MCS0	12.50 12.50	12.28 12.49
	802.11ax80-HE0	42	5210	MCS0	12.50	12.49
		l ,	Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
Band	Mode		Frequency	Data Rate	Power + Max.	power
Band		Channel	Frequency (MHz)		Power + Max. Tolerance (dBm)	power (dBm)
Band	Mode 802.11a	Channel 52	Frequency (MHz)	Data Rate	Power + Max. Tolerance (dBm)	power (dBm)
Band		Channel 52 56	Frequency (MHz) 5260 5280		Power + Max. Tolerance (dBm) 12.50 12.50	power (dBm) 12.28 12.34
Band		Channel 52 56 60	Frequency (MHz) 5260 5280 5300 5320 5260		Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31
Band	802.11a	52 56 60 64 52 56	Frequency (MHz) 5260 5280 5300 5320 5260 5280	6Mbps	Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28
Band		52 56 60 64 52 56 60	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300		Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30
Band	802.11a	52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320	6Mbps	Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35
Band	802.11a	52 56 60 64 52 56 60 64 52	Frequency (MHz) 5260 5280 5300 5320 5260 5320 5320 5320 5260	6Mbps	Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.37
Band	802.11a	52 56 60 64 52 56 60 64 52 56	Frequency (MHz) 5260 5280 5300 5320 5260 5320 5320 5320 5320 5260 5280	6Mbps	Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.37 12.32
Band	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52 56 60	Frequency (MHz) 5260 5280 5300 5320 5260 5300 5320 5320 5260 5280 5300	6Mbps MCS0	Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.37 12.32
Band 5.25-5.35 GHz	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5320	6Mbps MCS0	Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.37 12.32 12.32
	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5320 5320 5260 5280 5300 5320 5260	6Mbps MCS0	Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.37 12.32 12.32 12.30 12.35
	802.11a 802.11n20-HT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5320 5260 5280 5300 5320 5280 5320	6Mbps MCS0	Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.32 12.32 12.32 12.32 12.33
	802.11a 802.11n20-HT0 802.11ac20-VHT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5320 5280 5300 5320 5260 5280 5300 5320 5300 5320 5300 5320	6Mbps MCS0 MCS0	Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.32 12.32 12.30 12.35 12.33 12.31
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5320 5260 5280 5320 5260 5280 5300 5320 5260 5320 5260 5320 5260 5320	6Mbps MCS0 MCS0	Power + Max. Tolerance (dBm) 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.32 12.32 12.32 12.33 12.33 12.33 12.33
	802.11a 802.11n20-HT0 802.11ac20-VHT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5320 5260 5280 5320 5260 5280 5320 5270	6Mbps MCS0 MCS0	Power + Max. Tolerance (dBm) 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.37 12.32 12.30 12.35 12.33 12.31 12.33
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0	Channel 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 54 62	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5310	6Mbps MCS0 MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.37 12.32 12.30 12.35 12.33 12.33 12.33 12.33 12.31
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0	Channel 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 54 62 54	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5300 5320 5260 5280 5300 5320 5260 5280 5310 5320 5270 5310	6Mbps MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.32 12.30 12.35 12.31 12.32 12.32 12.33 12.31 12.34 12.37
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0 802.11ac40-VHT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5320 5280 5320 5280 5320 5280 5320 5280 5310 5320 5270 5310	6Mbps MCS0 MCS0 MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.32 12.30 12.35 12.31 12.37 12.32 12.33 12.31 12.37
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 64 52 56 60 60 60 60 60 60 60 60 60 60 60 60 60	Frequency (MHz) 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5320 5260 5280 5320 5270 5310 5270 5310 5270	6Mbps MCS0 MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 12.50	(dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.32 12.32 12.32 12.33 12.31 12.37 12.37 12.33 12.31 12.37 12.34 12.28 12.38
	802.11a 802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0 802.11ac40-VHT0	52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	Frequency (MHz) 5260 5280 5300 5320 5280 5300 5320 5280 5320 5280 5320 5280 5320 5280 5320 5280 5310 5320 5270 5310	6Mbps MCS0 MCS0 MCS0 MCS0 MCS0	Power + Max. Tolerance (dBm) 12.50	power (dBm) 12.28 12.34 12.37 12.32 12.31 12.28 12.30 12.35 12.32 12.30 12.35 12.31 12.37 12.32 12.33 12.31 12.37

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	1	,	Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		12.50	12.37
		116	5580		12.50	12.22
		120	5600	1	12.50	12.30
	802.11a	136	5680	6Mbps	12.50	12.33
		140	5700	1	12.50	12.28
		144	5720		12.50	12.36
		100	5500		12.50	12.29
		116	5580	1	12.50	12.11
		120	5600	1	12.50	12.32
	802.11n20-HT0	136	5680	MCS0	12.50	12.28
		140	5700	1 1	12.50	12.37
		144	5720	1	12.50	12.34
		100	5500		12.50	12.31
		116	5580	1	12.50	12.17
		120	5600	1	12.50	12.36
	802.11ac20-VHT0	136	5680	MCS0	12.50	12.34
		140	5700	-	12.50	12.35
		144	5720		12.50	12.36
		100	5500	MCS0	12.50	12.31
		116	5580		12.50	12.30
		120	5600		12.50	12.34
	802.11ax20-HE0	136	5680		12.50	12.33
5.6GHz		140	5700		12.50	12.35
		144	5720		12.50	12.34
		102	5510		12.50	12.32
		110	5550	1	12.50	12.21
	802.11n40-HT0	118	5590	MCS0	12.50	12.33
		134	5670	1	12.50	12.31
		142	5710	1 1	12.50	12.30
		102	5510		12.50	12.34
		110	5550	1 1	12.50	12.26
	802.11ac40-VHT0	118	5590	MCS0	12.50	12.36
		134	5670		12.50	12.30
		142	5710		12.50	12.29
		102	5510		12.50	12.28
		110	5550	1	12.50	12.26
	802.11ax40-HE0	118	5590	MCS0	12.50	12.37
		134	5670	1	12.50	12.34
		142	5710	1 1	12.50	12.36
		106	5530		12.50	12.45
	802.11ac80-VHT0	122	5610	MCS0	12.50	12.10
		138	5690	1 1	12.50	12.49
		106	5530		12.50	12.31
	802.11ax80-HE0	122	5610	MCS0	12.50	12.35
		138	5690	1	12.50	12.34

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		, ,	Ant 1			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Averag power (dBm)
		149	5745		12.50	12.34
	802.11a	157	5785	6Mbps	12.50	12.35
		165	5825		12.50	12.31
		149	5745		12.50	12.34
	802.11n20-HT0	157	5785	MCS0	12.50	12.28
		165	5825		12.50	12.34
		149	5745	MCS0	12.50	12.30
	802.11ac20-VHT0	157	5785		12.50	12.26
		165	5825		12.50	12.28
5.8GHz		149	5745		12.50	12.37
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	12.50	12.28
		165	5825		12.50	12.35
	802.11n40-HT0	151	5755	MCS0	12.50	12.36
	0UZ. I III 4 U-⊓ I U	159	5795	IVICSU	12.50	12.38
	900 11aa 10 \ // ITO	151	5755	MCCO	12.50	12.33
	802.11ac40-VHT0	159	5795	MCS0	12.50	12.35
	900 11av40 UE0	151	5755	MCCO	12.50	12.28
	802.11ax40-HE0	159	5795	MCS0	12.50	12.32
	802.11ac80-VHT0	155	5775	MCS0	12.50	12.48
	802.11ax80-HE0	155	5775	MCS0	12.50	12.32

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			Ant 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		15.00	14.99
		6	2437		15.00	14.98
	802.11b	11	2462	1Mbps	15.00	14.85
		12	2467		15.00	14.92
		13	2472		9.00	8.86
		1	2412		15.00	14.86
		6	2437]	15.00	14.94
	802.11g	11	2462	6Mbps	15.00	14.83
		12	2467		10.50	10.36
		13	2472		6.00	5.87
		1	2412	4		14.91
		6	2437			14.89
	802.11n20-HT0	11	2462	MCS0		14.82
		12	2467	4		10.28
		13	2472			5.79
		1	2412	MCSO		14.89
	000 4400 \// ITO	6	2437			14.88
	802.11ac20-VHT0	11	2462	MCS0	10.50 6.00 15.00 15.00 15.00 10.50 6.00	14.89
		12	2467			10.29
2.45GHz		13	2472			5.72
		1	2412		15.00	14.84
	000 11 00 1150	6	2437			14.89
	802.11ax20-HE0	11	2462	MCS0		14.94
		12	2467	4		10.34
		13	2472			5.86
		3	2422	4		14.97
	000 44 40 1170	6	2437	MOGO		14.96
	802.11n40-HT0	9	2452	MCS0		14.89
		10	2457	4		8.35
		11	2462	-		6.28
		3	2422	-		14.98
	802.11ac40-VHT0	6	2437	MCS0	15.00 15.00 10.50 6.00 15.00 15.00 15.00 8.50 6.50 15.00 15.00	14.88
	602.11ac40-VH10	9	2452	IVICSU		14.93
		10	2457	4	8.50	8.37
		11	2462	-	6.50	6.37
		3	2422	4	15.00	14.96
	802.11ax40-HE0	<u>6</u> 9	2437	MCS0	15.00	14.89
	002.11dX40-ΠΕ0	10	2452 2457	IVICOU	15.00 8.50	14.85 8.36
		11	2457	-	6.50	6.37
			2402		0.50	0.37

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			Ant 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		12.50	12.35
	802.11a	40	5200	GMbpa	12.50	12.37
	002.11a	44	5220	6Mbps	12.50	12.30
		48	5240		12.50	12.34
	802.11n20-HT0	36	5180]	12.50	12.32
		40	5200	MCS0	12.50	12.35
		44	5220		12.50	12.33
		48	5240		12.50	12.32
		36	5180	-	12.50	12.34
	802.11ac20-VHT0	40	5200	MCS0	12.50	12.29
		44	5220	 	12.50	12.33
5.15-5.25 GHz		48 36	5240 5180		12.50 12.50	12.37 12.28
		40	5200	•	12.50	12.29
	802.11ax20-HE0	44	5220	MCS0	12.50	12.23
		48	5240	1	12.50	12.28
		38	5190		12.50	12.35
	802.11n40-HT0	46	5230	MCS0	12.50	12.29
		38	5190		12.50	12.37
	802.11ac40-VHT0	46	5230	MCS0	12.50	12.33
		38	5190		12.50	12.36
	802.11ax40-HE0	46	5230	MCS0	12.50	12.29
	802.11ac80-VHT0	42	5210	MCS0	12.50	12.48
	802.11ax80-HE0	42	5210	MCS0	12.50	12.36
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max.	Average power
					Tolerance (dBm)	(dBm)
		52	5260		` ,	
		52 56	5260 5280		12.50	12.33
	802.11a	56	5280	- 6Mbps	12.50 12.50	12.33 12.34
	802.11a	56 60	5280 5300	- 6Mbps	12.50 12.50 12.50	12.33 12.34 12.35
	802.11a	56	5280 5300 5320	6Mbps	12.50 12.50 12.50 12.50	12.33 12.34
		56 60 64 52	5280 5300 5320 5260		12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32 12.37
	802.11a 802.11n20-HT0	56 60 64	5280 5300 5320 5260 5280	- 6Mbps - MCS0	12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32
		56 60 64 52 56	5280 5300 5320 5260		12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32 12.37 12.38
		56 60 64 52 56 60	5280 5300 5320 5260 5280 5300		12.50 12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32 12.37 12.38 12.36
	802.11n20-HT0	56 60 64 52 56 60 64	5280 5300 5320 5260 5280 5300 5320	MCS0	12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32 12.37 12.38 12.36 12.34
		56 60 64 52 56 60 64 52	5280 5300 5320 5260 5280 5300 5320 5260		12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32 12.37 12.38 12.36 12.34 12.33
5 25.5 35 CH ₇	802.11n20-HT0	56 60 64 52 56 60 64 52 56	5280 5300 5320 5260 5280 5300 5320 5260 5280	MCS0	12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32 12.37 12.38 12.36 12.34 12.33 12.31
5.25-5.35 GHz	802.11n20-HT0	56 60 64 52 56 60 64 52 56 60	5280 5300 5320 5260 5280 5300 5320 5260 5280 5300	MCS0	12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32 12.37 12.38 12.36 12.34 12.33 12.31 12.33
5.25-5.35 GHz	802.11n20-HT0 802.11ac20-VHT0	56 60 64 52 56 60 64 52 56 60 60 64	5280 5300 5320 5260 5280 5320 5320 5260 5280 5300 5320 5320 5260 5280	MCS0	12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32 12.37 12.38 12.36 12.34 12.33 12.31 12.33 12.28 12.35 12.31
5.25-5.35 GHz	802.11n20-HT0	56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320	MCS0	12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32 12.37 12.38 12.36 12.34 12.33 12.31 12.33 12.28 12.35 12.31
5.25-5.35 GHz	802.11n20-HT0 802.11ac20-VHT0	56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5320	MCS0	12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.37 12.38 12.36 12.34 12.33 12.31 12.33 12.28 12.35 12.31 12.36 12.31
5.25-5.35 GHz	802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0	56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56	5280 5300 5320 5260 5280 5320 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5270	MCS0 MCS0 MCS0	12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.32 12.37 12.38 12.36 12.34 12.33 12.31 12.33 12.28 12.31 12.31 12.36 12.31
5.25-5.35 GHz	802.11n20-HT0 802.11ac20-VHT0	56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52	5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5320	MCS0	12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50 12.50	12.33 12.34 12.35 12.37 12.38 12.36 12.34 12.33 12.31 12.33 12.28 12.35 12.31 12.35 12.31
5.25-5.35 GHz	802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0	56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 60 64 52 56 60 60 60 60 60 60 60 60 60 60 60 60 60	5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5320 5260 5280 5300 5280 5280 5310 5270	MCS0 MCS0 MCS0 MCS0	12.50 12.50	12.33 12.34 12.35 12.37 12.38 12.36 12.34 12.33 12.31 12.33 12.28 12.35 12.31 12.36 12.35 12.31 12.35
5.25-5.35 GHz	802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0	56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64	5280 5300 5320 5260 5280 5320 5320 5260 5280 5320 5260 5320 5260 5320 5270 5310 5270 5310	MCS0 MCS0 MCS0	12.50 12.50	12.33 12.34 12.35 12.37 12.38 12.36 12.34 12.33 12.31 12.35 12.31 12.36 12.35 12.31 12.35 12.31 12.38
5.25-5.35 GHz	802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0 802.11ac40-VHT0	56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 60 64 52 56 60 60 60 60 60 60 60 60 60 60 60 60 60	5280 5300 5320 5260 5280 5320 5320 5320 5280 5320 5320 5260 5280 5320 5260 5270 5310 5270 5310 5270	MCS0 MCS0 MCS0 MCS0 MCS0	12.50 12.50	12.33 12.34 12.35 12.37 12.38 12.36 12.34 12.33 12.31 12.35 12.31 12.36 12.28 12.35 12.31 12.36 12.37 12.33
5.25-5.35 GHz	802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0 802.11ac40-VHT0 802.11ax40-HE0	56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 60 64 52 56 60 60 60 60 60 60 60 60 60 60 60 60 60	5280 5300 5320 5260 5280 5320 5320 5320 5280 5320 5280 5320 5260 5280 5320 5270 5310 5270 5310	MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	12.50 12.50	12.33 12.34 12.35 12.37 12.38 12.36 12.34 12.33 12.31 12.33 12.28 12.35 12.36 12.28 12.37 12.37 12.37 12.33 12.35 12.37
5.25-5.35 GHz	802.11n20-HT0 802.11ac20-VHT0 802.11ax20-HE0 802.11n40-HT0 802.11ac40-VHT0	56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 64 52 56 60 60 64 52 56 60 60 60 60 60 60 60 60 60 60 60 60 60	5280 5300 5320 5260 5280 5320 5320 5320 5280 5320 5320 5260 5280 5320 5260 5270 5310 5270 5310 5270	MCS0 MCS0 MCS0 MCS0 MCS0	12.50 12.50	12.33 12.34 12.35 12.37 12.38 12.36 12.34 12.33 12.31 12.35 12.31 12.36 12.28 12.35 12.31 12.36 12.37 12.33

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		-	Ant 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		12.50	12.36
		116	5580	1 1	12.50	12.13
		120	5600	1 1	12.50	12.40
	802.11a	136	5680	6Mbps	12.50	12.36
		140	5700	1	12.50	12.32
		144	5720	1	12.50	12.31
		100	5500		12.50	12.34
		116	5580	1	12.50	12.15
		120	5600	1 1	12.50	12.31
	802.11n20-HT0	136	5680	MCS0	12.50	12.35
		140	5700	1	12.50	12.35
		144	5720	1	12.50	12.30
		100	5500		12.50	12.37
		116	5580	1	12.50	12.23
	000 44 00 14 70	120	5600	1	12.50	12.30
	802.11ac20-VHT0	136	5680	MCS0	12.50	12.37
		140	5700	1	12.50	12.32
		144	5720	1	12.50	12.35
		100	5500		12.50	12.31
		116	5580	1	12.50	12.25
		120	5600	1 1	12.50	12.33
	802.11ax20-HE0	136	5680	MCS0	12.50	12.28
5.6GHz		140	5700	1	12.50	12.28
		144	5720	1	12.50	12.32
		102	5510		12.50	12.34
		110	5550	1	12.50	12.28
	802.11n40-HT0	118	5590	MCS0	12.50	12.36
		134	5670	1	12.50	12.33
		142	5710		12.50	12.29
		102	5510		12.50	12.31
		110	5550] [12.50	12.28
	802.11ac40-VHT0	118	5590	MCS0	12.50	12.35
		134	5670		12.50	12.33
		142	5710		12.50	12.36
		102	5510		12.50	12.32
		110	5550] [12.50	12.25
	802.11ax40-HE0	118	5590	MCS0	12.50	12.35
		134	5670] [12.50	12.30
		142	5710		12.50	12.31
		106	5530]	12.50	12.37
	802.11ac80-VHT0	122	5610	MCS0	12.50	12.35
		138	5690		12.50	12.48
		106	5530]	12.50	12.34
	802.11ax80-HE0	122	5610	MCS0	12.50	12.36
		138	5690		12.50	12.35

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			Ant 2			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		12.50	12.34
	802.11a	157	5785	6Mbps	12.50	12.35
		165	5825		12.50	12.32
		149	5745		12.50	12.37
	802.11n20-HT0	157	5785	MCS0	12.50	12.36
		165	5825		12.50	12.34
		149	5745		12.50	12.30
	802.11ac20-VHT0	157	5785	MCS0	12.50	12.36 12.34 12.30 12.31 12.35
		165	5825		12.50	12.35
5.8GHz		149	5745		12.50	12.34
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	12.50	12.37
		165	5825		12.50	12.33
	802.11n40-HT0	151	5755	MCS0	12.50	12.34
	602.111140-H10	159	5795	IVICSU	12.31	
	000 4440 1/1/170	151	5755	MCCO	12.50	12.30
	802.11ac40-VHT0	159	5795	MCS0	12.50	12.31
	000 4440 UE0	151	5755	MCCO	12.50	12.36
	802.11ax40-HE0	159	5795	MCS0	12.50	12.31
	802.11ac80-VHT0	155	5775	MCS0	12.50	12.44
	802.11ax80-HE0	155	5775	MCS0	12.50	12.31

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5.2 **Bluetooth**

			1Mbps		2Mbps		3Mbps		
Mode	Channel	Frequency (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
	CH 00	2402		10.01		8.10		8.03	
BR/EDR	CH 39	2441	11.50	9.88	8.50	7.94	8.50	7.86	
	CH 78	2480		10.28		8.23		8.29	

5.3 **BLE**

Mode	Channel	Frequency		GFSK
Wode	Charmer	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
	CH 00	2402		9.84
BLE_1M	CH 19	2440	11.5	9.71
	CH 39	2480		9.92
Mode	Channel	Frequency		GFSK
Woue	Charine	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
	CH 00	2402		9.82
BLE_2M	CH 19	2440	11.5	9.75
	CH 39	2480		9.89

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2.4G b duty (8.36/9.04=0.925) Scaling Factor=1.081 O KEYSIGHT Input RI Avg Type. Log Pow Trig: Free Ran Select Marke WWWWW ΔMkr3 9.040 ms 9.04000 ms Ref Level -12.86 dBm 0.36 dE A314 Della (Δ) Properties Marker Function Off #Video BW 200 kHz Span 0 Hz Sweep 20.0 ms (1001 pts) Counter Function Function Width 8.360 ms (Δ) 0.2161 dB 10.24 ms -52.37 dBm 9.040 ms (Δ) 0.3564 dB 10.24 ms -52.37 dBm (Δ) ... 🐧 15 C 22:49 PM BT duty 2.882/3.751=0.768) Scaling Factor=1.302 Input Z 50 0 Corr CCorr Freq Ref. Int (S) KEYSIGHT Input RE Align Auto 3.751 m 4.98333 ms Ref Level 0.00 dBm 1Δ2 3Δ4 Pk Search Config Xa Delta (Δ) Properties Marker Function Marker-Video BW 8.0 MHz 2.882 ms (Δ) -0.1146 dB ns -26.20 de ns (Δ) -0.04116 1 9 C 7 Nov 06, 2023 .:: 🔌

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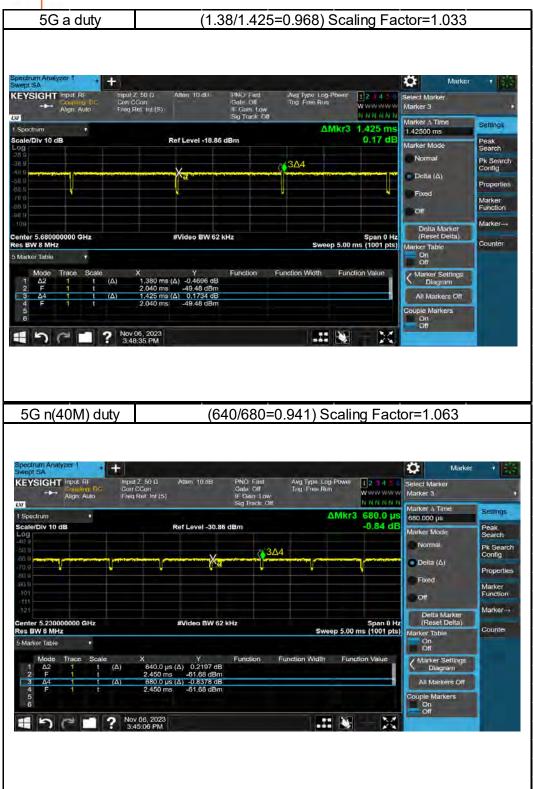
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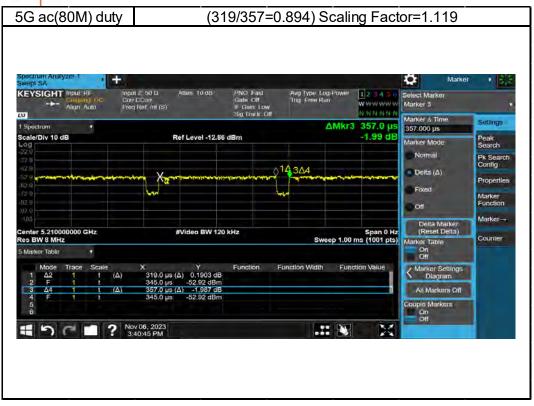


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7 SUMMARY OF RESULTS

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

Tablet mode

Vendor1

vendori												
			Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	
Band	Antenna	Position	(mm)	Channel	(MHz)	Power + Max.	Avg. Power	scaling	scaling			ID
						Tolerance (dBm)	(dBm)			Measured	Reported	
WLAN 802.11b	Ant 1	Back Surface	0	1	2412	15.00	14.99	1.08	100.23%	0.193	0.209	-
WLAN 802.11b	Ant 1	Top Edge	0	1	2412	15.00	14.99	1.08	100.23%	0.301	0.326	001
WLAN 802.11b	Ant 1	Top Edge	0	6	2437	15.00	14.82	1.08	104.23%	0.267	0.301	-
WLAN 802.11b	Ant 1	Top Edge	0	11	2462	15.00	14.95	1.08	101.16%	0.274	0.300	-
WLAN 802.11b	Ant 1	Right Edge	0	1	2412	15.00	14.99	1.08	100.23%	0.084	0.091	-
			Distance		Freg.	Max. Rated Avg.	Measured	Dustri avala	Power	Averaged SAR	over 1g (W/kg)	
Band	Antenna	Position	(mm)	Channel	(MHz)	Power + Max.	Avg. Power	Duty cycle scaling	scaling			ID
			(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)	Scaling	Scanny	Measured	Reported	
Bluetooth(GFSK)	Ant 1	Back Surface	0	78	2480	11.50	10.28	1.30	132.43%	0.032	0.055	-
Bluetooth(GFSK)	Ant 1	Top Edge	0	78	2480	11.50	10.28	1.30	132.43%	0.060	0.103	002
Bluetooth(GFSK)	Ant 1	Right Edge	0	78	2480	11.50	10.28	1.30	132.43%	0.007	0.012	-
					_	Max. Rated Avg.	Measured		_	A 1 CAD	4 OM(8)	
Band	Antenna	Position	Distance	Channel	Freq. (MHz)	Power + Max.	Avg. Power	Duty cycle scaling	Power	Averaged SAR	over 1g (W/kg)	ID
			(mm)		(MHZ)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.2G	Ant 1	Back Surface	0	42	5210	12.50	12.49	1.03	100.23%	0.247	0.256	-
WLAN 802.11ac(80M) 5.2G	Ant 1	Top Edge	0	42	5210	12.50	12.49	1.03	100.23%	0.327	0.339	003
WLAN 802.11ac(80M) 5.2G	Ant 1	Right Edge	0	42	5210	12.50	12.49	1.03	100.23%	0.073	0.076	-
		3 3				Max. Rated Avg.	Measured					
Band	Antenna	Position	Distance	Channel	Freq.	Power + Max.	Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
			(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Ant 1	Back Surface	0	58	5290	12.50	12.46	1.03	100.93%	0.211	0.220	-
WLAN 802.11ac(80M) 5.3G	Ant 1	Top Edge	0	58	5290	12.50	12.46	1.03	100.93%	0.289	0.301	004
WLAN 802.11ac(80M) 5.3G	Ant 1	Right Edge	0	58	5290	12.50	12.46	1.03	100.93%	0.067	0.070	
112 11 002:1 (do(0011) 0:000	741.	rugiit Eugo		- 55	0200	Max. Rated Avg.	Measured	1.00	100.0070			
Band	Antenna	Position	Distance	Channel	Freq.	Power + Max	Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
Sand	7 111011114	1 dollari	(mm)	Ondimo	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Ant 1	Back Surface	0	138	5690	12.50	12.49	1.03	100.23%	0.254	0.263	
WLAN 802.11ac(80M) 5.6G	Ant 1	Top Edge	0	138	5690	12.50	12.49	1.03	100.23%	0.316	0.327	005
WLAN 802.11ac(80M) 5.6G	Ant 1	Right Edge	0	138	5690	12.50	12.49	1.03	100.23%	0.093	0.096	
WEAR 602.11ac(60W) 5.03	Allt I	Right Eage	0	136	3090			1.03	100.2376	0.093	0.090	
Band	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
Ballu	Antonna	Position	(mm)	Chamie	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	ID.
WLAN 802.11ac(80M) 5.8G	Ant 1	Back Surface	0	155	5775	12.50	12.48	1.03	100.46%	0.186	0.193	
WLAN 802.11ac(80M) 5.8G	Ant 1	Top Edge	0	155	5775	12.50	12.48	1.03	100.46%	0.160	0.193	006
WLAN 802.11ac(80M) 5.8G	Ant 1	Right Edge	0	155	5775	12.50	12.48	1.03	100.46%	0.233	0.205	000
WLAN 802.11ac(80M) 5.8G	Ant 1	Right Eage	0	155	5//5			1.03	100.46%	0.043	0.045	
Band	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
Bariu	Antenna	Position	(mm)	Channel	(MHz)	Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	ID.
WLAN 802.11b	Ant 2	Back Surface	0	1	2412	15.00	14.99	1.08	100.23%	0.179	0.194	
WLAN 802.11b	Ant 2	Top Edge	0	1	2412	15.00	14.99	1.08	100.23%	0.179	0.302	007
WLAN 802.11b	Ant 2	Top Edge	0	6	2437	15.00	14.98	1.08	100.46%	0.234	0.254	-
WLAN 802.11b	Ant 2	Top Edge	0	11	2462	15.00	14.85	1.08	103.51%	0.251	0.281	-
WLAN 802.11b	Ant 2	Left Edge	0	1	2412	15.00	14.99	1.08	100.23%	0.095	0.103	-
			Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	
Band	Antenna	Position	(mm)	Channel	(MHz)	Power + Max.	Avg. Power	scaling	scaling			ID
						Tolonous (JDno)	(-ID)					
			1 1			Tolerance (dBm)	(dBm)			Measured	Reported	
WLAN 802.11ac(80M) 5.2G	Ant 2	Back Surface	0	42	5210	12.50	(dBm) 12.48	1.03	100.46%	0.287	0.298	-
WLAN 802.11ac(80M) 5.2G	Ant 2	Top Edge	0	42	5210 5210	12.50 12.50	(dBm) 12.48 12.48	1.03	100.46% 100.46%	0.287 0.340	0.298 0.353	- 008
. , ,			0		5210	12.50	(dBm) 12.48	1.03	100.46%	0.287	0.298	- 008
WLAN 802.11ac(80M) 5.2G	Ant 2	Top Edge Left Edge	0 0	42	5210 5210 5210	12.50 12.50	(dBm) 12.48 12.48	1.03 1.03 1.03	100.46% 100.46% 100.46%	0.287 0.340 0.106	0.298 0.353 0.110	-
WLAN 802.11ac(80M) 5.2G	Ant 2	Top Edge	0 0 0 Distance	42	5210 5210 5210 Freq.	12.50 12.50 12.50 Max. Rated Avg. Power + Max.	(dBm) 12.48 12.48 12.48 Measured Avg. Power	1.03 1.03 1.03 Duty cycle	100.46% 100.46% 100.46% Power	0.287 0.340 0.106 Averaged SAR	0.298 0.353 0.110 over 1g (W/kg)	- 008 -
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band	Ant 2 Ant 2 Antenna	Top Edge Left Edge Position	0 0 0 Distance (mm)	42 42 Channel	5210 5210 5210 5210 Freq. (MHz)	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	(dBm) 12.48 12.48 12.48 Measured Avg. Power (dBm)	1.03 1.03 1.03 Duty cycle scaling	100.46% 100.46% 100.46% Power scaling	0.287 0.340 0.106 Averaged SAR Measured	0.298 0.353 0.110 over 1g (W/kg) Reported	-
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G	Ant 2 Ant 2 Antenna Ant 2	Top Edge Left Edge	0 0 0 Distance (mm)	42 42 Channel	5210 5210 5210 5210 Freq. (MHz)	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50	(dBm) 12.48 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49	1.03 1.03 1.03 Duty cycle scaling	100.46% 100.46% 100.46% Power scaling 100.23%	0.287 0.340 0.106 Averaged SAR Measured 0.271	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281	- ID
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G	Ant 2 Ant 2 Antenna Ant 2 Ant 2 Ant 2	Top Edge Left Edge Position Back Surface Top Edge	0 0 0 Distance (mm)	42 42 Channel 58 58	5210 5210 5210 5210 Freq. (MHz) 5290 5290	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50	(dBm) 12.48 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49	1.03 1.03 1.03 Duty cycle scaling 1.03 1.03	100.46% 100.46% 100.46% Power scaling 100.23%	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380	-
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G	Ant 2 Ant 2 Antenna Ant 2	Top Edge Left Edge Position Back Surface	0 0 0 Distance (mm)	42 42 Channel	5210 5210 5210 5210 Freq. (MHz)	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50	(dBm) 12.48 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49	1.03 1.03 1.03 Duty cycle scaling	100.46% 100.46% 100.46% Power scaling 100.23%	0.287 0.340 0.106 Averaged SAR Measured 0.271	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281	- ID
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G	Ant 2 Ant 2 Antenna Ant 2 Ant 2 Ant 2	Top Edge Left Edge Position Back Surface Top Edge	0 0 0 Distance (mm) 0 0 0 0	42 42 Channel 58 58	5210 5210 5210 5210 Freq. (MHz) 5290 5290	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50	(dBm) 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49	1.03 1.03 1.03 Duty cycle scaling 1.03 1.03	100.46% 100.46% 100.46% Power scaling 100.23% 100.23%	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077	- ID
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G	Ant 2 Ant 2 Antenna Ant 2 Ant 2 Ant 2	Top Edge Left Edge Position Back Surface Top Edge	0 0 0 Distance (mm) 0 0 0 Distance Distance O Distance O Distance O Distance	42 42 Channel 58 58	5210 5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq.	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 12.50 Max. Rated Avg. Power + Max.	(dBm) 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49 12.49 Measured Avg. Power	1.03 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03	100.46% 100.46% 100.46% Power scaling 100.23% 100.23% Power	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074 Averaged SAR	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077 over 1g (W/kg)	- ID
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G Band	Ant 2 Ant 2 Antenna Ant 2 Ant 2 Ant 2 Ant 2	Top Edge Left Edge Position Back Surface Top Edge Left Edge	0 0 0 Distance (mm) 0 0 0 0	42 42 Channel 58 58 58 Channel	5210 5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq. (MHz)	12.50 12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	(dBm) 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49 12.49 Measured Avg. Power (dBm)	1.03 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 Duty cycle scaling	100.46% 100.46% 100.46% Power scaling 100.23% 100.23% Power scaling	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074 Averaged SAR Measured	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077 over 1g (W/kg) Reported	- ID - 009 -
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G	Ant 2 Ant 2 Antenna Ant 2 Ant 2 Ant 2 Ant 2	Top Edge Left Edge Position Back Surface Top Edge Left Edge	0 0 0 Distance (mm) 0 0 0 Distance Distance O Distance O Distance O Distance	42 42 Channel 58 58 58	5210 5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq.	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 12.50 Max. Rated Avg. Power + Max.	(dBm) 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49 12.49 Measured Avg. Power	1.03 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03	100.46% 100.46% 100.46% Power scaling 100.23% 100.23% Power	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074 Averaged SAR	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077 over 1g (W/kg)	- ID - 009 -
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G Band	Ant 2 Ant nn 2 Antenna Ant 2	Top Edge Left Edge Position Back Surface Top Edge Left Edge Position	0 0 0 Distance (mm) 0 Distance (mm)	42 42 Channel 58 58 58 Channel	5210 5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq. (MHz)	12.50 12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	(dBm) 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49 12.49 Measured Avg. Power (dBm)	1.03 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 Duty cycle scaling	100.46% 100.46% 100.46% Power scaling 100.23% 100.23% Power scaling	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074 Averaged SAR Measured	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077 over 1g (W/kg) Reported	- ID - 009 -
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G Band WLAN 802.11ac(80M) 5.3G	Ant 2	Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface	0 0 0 Distance (mm) 0 0 Distance (mm) 0 0 Distance (mm) 0	42 42 Channel 58 58 58 Channel	5210 5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq. (MHz) 5690	12.50 12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50	(dBm) 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49 12.49 Measured Avg. Power (dBm) 12.49	1.03 1.03 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03	100.46% 100.46% 100.46% Power scaling 100.23% 100.23% Power scaling 100.46%	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074 Averaged SAR Measured 0.348	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077 over 1g (W/kg) Reported 0.361	- ID - 009 - ID
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G Band WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Ant 2 Ant 2 Antenna Ant 2 Ant 2 Ant 2 Ant 2 Ant 2 Ant 2 Antenna Ant 2 Ant 2 Ant nat 2 Ant 2	Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Top Edge	0 0 0 Distance (mm) 0 0 Distance (mm) 0 0 Distance (mm) 0 0 Distance (mm) 0 0	42 42 Channel 58 58 58 Channel	5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq. (MHz) 5690 5690 5690	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 12.50 12.50 12.50 12.50	(dBm) 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49 Measured Avg. Power (dBm) 12.49 Measured Avg. Power (dBm)	1.03 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 1.03	100.46% 100.46% 100.46% Power scaling 100.23% 100.23% 100.23% 100.23% 100.46% 100.46%	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074 Averaged SAR Measured 0.348 0.443	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077 over 1g (W/kg) Reported 0.361 0.460 0.217	- ID - 009 - ID
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G Band WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Ant 2 Ant 2 Antenna Ant 2 Ant 2 Ant 2 Ant 2 Ant 2 Ant 2 Antenna Ant 2 Ant 2 Ant nat 2 Ant 2	Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Top Edge	0 0 0 Distance (mm) 0 0 Distance (mm) 0 0 Distance (mm) 0 Distance (mm) 0 Distance (mm)	42 42 Channel 58 58 58 Channel	5210 5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq. (MHz) 5690 5690 Freq.	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 Power + Max. Rated Avg. Power + Max.	(dBm) 12.48 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49 12.49 Measured Avg. Power (dBm) 12.48 12.48 12.48 Measured Avg. Power Avg.	1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 Duty cycle scaling	100.46% 100.46% 100.46% Power scaling 100.23% 100.23% 100.23% Power scaling 100.46% 100.46% Power	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074 Averaged SAR Measured 0.348 0.443 0.209 Averaged SAR	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077 over 1g (W/kg) Reported 0.361 0.460 0.217 over 1g (W/kg)	- ID - 009 - ID
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Ant 2 Ant nnna Ant 2	Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Left Edge	0 0 0 Distance (mm) 0 0 Distance (mm) 0 0 Distance (mm) 0 0 Distance (mm) 0 0	42 42 Channel 58 58 58 Channel 138 138	5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq. (MHz) 5690 5690 5690	12.50 12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 Max. Rated Avg. Power + Max Tolerance (dBm) 12.50 12.50 Max. Rated Avg. 12.50 12.50 Max. Rated Avg.	(dBm) 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49 Measured Avg. Power (dBm) 12.49 Measured Avg. Power (dBm) 12.48 12.48 Measured	1.03 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 1.03	100.46% 100.46% 100.46% Power scaling 100.23% 100.23% 100.23% 100.23% 100.46% 100.46%	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074 Averaged SAR Measured 0.348 0.443	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077 over 1g (W/kg) Reported 0.361 0.460 0.217	- ID - 009 - ID - 010 - 010 - 010
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Ant 2 Ant nnna Ant 2	Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Left Edge	0 0 0 Distance (mm) 0 0 Distance (mm) 0 0 Distance (mm) 0 Distance (mm) 0 Distance (mm)	42 42 Channel 58 58 58 Channel 138 138	5210 5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq. (MHz) 5690 5690 Freq.	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 Power + Max. Rated Avg. Power + Max.	(dBm) 12.48 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49 12.49 Measured Avg. Power (dBm) 12.48 12.48 12.48 Measured Avg. Power Avg.	1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 Duty cycle scaling	100.46% 100.46% 100.46% Power scaling 100.23% 100.23% 100.23% Power scaling 100.46% 100.46% Power	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074 Averaged SAR Measured 0.348 0.443 0.209 Averaged SAR	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077 over 1g (W/kg) Reported 0.361 0.460 0.217 over 1g (W/kg)	- ID - 009 - ID - 010 - 010 - 010
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G Band	Ant 2 Antenna Ant 2 Ant 12 Ant 2 Ant 2 Ant 2 Ant 2 Ant 2 Ant 2	Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Position Position	0 0 0 Distance (mm) 0 0 Distance (mm) 0 0 Distance (mm) 0 Distance (mm) 0 Distance (mm)	42 42 Channel 58 58 58 Channel 138 138 Channel	5210 5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq. (MHz) 5690 5690 Freq. (MHz)	12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 12.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 12.50 12.50 Max. Rated Avg.	(dBm) 12.48 12.48 12.48 12.48 Measured Avg. Power (dBm) 12.49 12.49 12.49 Measured Avg. Power (dBm) 12.48 Measured Avg. Power (dBm) 12.48 Measured Avg. Power (dBm)	1.03 1.03 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 Duty cycle scaling 1.03 1.03 1.03 Duty cycle scaling	100.46% 100.46% 100.46% Power scaling 100.23% 100.23% 100.23% Power scaling 100.46% 100.46% 100.46%	0.287 0.340 0.106 Averaged SAR Measured 0.271 0.367 0.074 Averaged SAR Measured 0.348 0.443 0.209 Averaged SAR Measured	0.298 0.353 0.110 over 1g (W/kg) Reported 0.281 0.380 0.077 over 1g (W/kg) Reported 0.361 0.460 0.217 over 1g (W/kg)	- ID - 009 - ID - 010 - 010 - 010

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Vendor2

/endorz						Max. Rated Avg.	Measured				4 0440	
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Duty cycle scaling	Power scaling	Measured	over 1g (W/kg) Reported	ID
WLAN 802.11b	Ant 1	Back Surface	0	1	2412	15.00	14.99	1.08	100.23%	0.178	0.193	-
WLAN 802.11b	Ant 1	Top Edge	0	1	2412	15.00	14.99	1.08	100.23%	0.367	0.398	012
WLAN 802.11b	Ant 1	Top Edge	0	6	2437	15.00	14.82	1.08	104.23%	0.352	0.397	-
WLAN 802.11b	Ant 1	Top Edge	0	11	2462	15.00	14.95	1.08	101.16%	0.331	0.362	-
WLAN 802.11b	Ant 1	Right Edge	0	1	2412	15.00	14.99	1.08	100.23%	0.106	0.115	_
		3 3				Max. Rated Avg.	Measured					
Band	Antenna	Position	Distance	Channel	Freq.	Power + Max.	Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
Dana	7411011114	1 COMOT	(mm)	Onamo	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
Bluetooth(GFSK)	Ant 1	Back Surface	0	78	2480	11.50	10.28	1.30	132.43%	0.109	0.188	
Bluetooth(GFSK)	Ant 1	Top Edge	0	78	2480	11.50	10.28	1.30	132.43%	0.127	0.219	01
Bluetooth(GFSK)			_		2480	11.50	10.28	1.30	132.43%	0.127	0.219	01
Bluetootn(GFSK)	Ant 1	Right Edge	0	78	2480			1.30	132.43%	0.042	0.072	_
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
			(11111)		(IVITZ)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	ĺ
WLAN 802.11ac(80M) 5.2G	Ant 1	Back Surface	0	42	5210	12.50	12.49	1.03	100.23%	0.108	0.112	-
WLAN 802.11ac(80M) 5.2G	Ant 1	Top Edge	0	42	5210	12.50	12.49	1.03	100.23%	0.142	0.147	01
WLAN 802.11ac(80M) 5.2G	Ant 1	Right Edge	0	42	5210	12.50	12.49	1.03	100.23%	0.081	0.084	-
112 11 002: 1 las(00iii) 0:20	7410.1	rugiii Eugo			02.0			1.00	100.2070			
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)	ID
			(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)	Scaling	Scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Ant 1	Back Surface	0	58	5290	12.50	12.46	1.03	100.93%	0.161	0.168	-
WLAN 802.11ac(80M) 5.3G	Ant 1	Top Edge	0	58	5290	12.50	12.46	1.03	100.93%	0.214	0.223	01
WLAN 802.11ac(80M) 5.3G	Ant 1	Right Edge	0	58	5290	12.50	12.46	1.03	100.93%	0.089	0.093	-
` ′						Max. Rated Avg.	Measured					
Band	Antenna	Position	Distance	Channel	Freq.	Power + Max.	Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
			(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Ant 1	Back Surface	0	138	5690	12.50	12.49	1.03	100.23%	0.132	0.137	-
WLAN 802.11ac(80M) 5.6G	Ant 1	Top Edge	0	138	5690	12.50	12.49	1.03	100.23%	0.217	0.225	01
WLAN 802.11ac(80M) 5.6G	Ant 1	Right Edge	0	138	5690	12.50	12.49	1.03	100.23%	0.061	0.063	-
WEAR 802.1 (8000) 5.0G	Alti	Night Eage	0	130	3090			1.03	100.2376	0.001	0.003	_
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	ID
			(11111)		(IVITZ)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Ant 1	Back Surface	0	155	5775	12.50	12.48	1.03	100.46%	0.173	0.180	-
WLAN 802.11ac(80M) 5.8G	Ant 1	Top Edge	0	155	5775	12.50	12.48	1.03	100.46%	0.224	0.232	01
WLAN 802.11ac(80M) 5.8G	Ant 1	Right Edge	0	155	5775	12.50	12.48	1.03	100.46%	0.057	0.059	-
			-			Max. Rated Avg.	Measured					
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	ID
NAII ANI 000 441	4-40	Death Confess	_		0440		,	4.00	400.000/			
WLAN 802.11b	Ant 2	Back Surface	0	1	2412	15.00	14.99	1.08	100.23%	0.232	0.251	-
WLAN 802.11b	Ant 2	Top Edge	0	1	2412	15.00	14.99	1.08	100.23%	0.280	0.303	01
WLAN 802.11b	Ant 2	Top Edge	0	6	2437	15.00	14.98	1.08	100.46%	0.261	0.283	-
WLAN 802.11b	Ant 2	Top Edge	0	11	2462	15.00	14.85	1.08	103.51%	0.254	0.284	-
WLAN 802.11b	Ant 2	Left Edge	0	1	2412	15.00	14.99	1.08	100.23%	0.103	0.112	-
					_	Max. Rated Avg.	Measured		_	A 1 0 A D	4 - OMB)	
Band	Antenna	Position	Distance	Channel	Freq.	Power + Max.	Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
			(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.2G	Ant 2	Back Surface	0	42	5210	12.50	12.48	1.03	100.46%	0.178	0.185	-
WLAN 802.11ac(80M) 5.2G	Ant 2	Top Edge	0	42	5210	12.50	12.48	1.03	100.46%	0.231	0.240	01
WLAN 802.11ac(80M) 5.2G	Ant 2	Left Edge	0	42	5210	12.50	12.48	1.03	100.46%	0.064	0.066	
	, ell 2	zon Eugo		72	5210			1.00	100.4070			
Band	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
Danid	Ancilla	i osition	(mm)	Grianner	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	1
WLAN 802.11ac(80M) 5.3G	Ant 2	Back Surface	0	58	5290	12.50	12.49	1.03	100.23%	0.182	0.188	
WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G					5290	12.50	12.49		100.23%	0.182	0.188	02
	Ant 2	Top Edge	0	58				1.03				02
WLAN 802.11ac(80M) 5.3G	Ant 2	Left Edge	0	58	5290	12.50	12.49	1.03	100.23%	0.052	0.054	_
D	A4	D	Distance	01	Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	
Band	Antenna	Position	(mm)	Channel	(MHz)	Power + Max.	Avg. Power	scaling	scaling	Measured		IC
						Tolerance (dBm)	(dBm)	-	100 100		Reported	_
WLAN 802.11ac(80M) 5.6G	Ant 2	Back Surface	0	138	5690	12.50	12.48	1.03	100.46%	0.091	0.094	-
WLAN 802.11ac(80M) 5.6G	Ant 2	Top Edge	0	106	5530	12.50	12.37	1.03	103.04%	0.142	0.151	-
WLAN 802.11ac(80M) 5.6G	Ant 2	Top Edge	0	122	5610	12.50	12.35	1.03	103.51%	0.138	0.148	-
WLAN 802.11ac(80M) 5.6G	Ant 2	Top Edge	0	138	5690	12.50	12.48	1.03	100.46%	0.155	0.161	02
WLAN 802.11ac(80M) 5.6G	Ant 2	Left Edge	0	138	5690	12.50	12.48	1.03	100.46%	0.025	0.026	-
	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power		over 1g (W/kg)	IC
Band			(mm)	1	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	1
Band			1 1									
		Back Surface		155	5775		12 44	1.03	101 30%	0.160		Į.
WLAN 802.11ac(80M) 5.8G	Ant 2	Back Surface	0	155	5775	12.50	12.44	1.03	101.39%	0.169	0.177	-
		Back Surface Top Edge Left Edge		155 155 155	5775 5775 5775		12.44 12.44 12.44	1.03 1.03 1.03	101.39% 101.39% 101.39%	0.169 0.242 0.034		02

Note:

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

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7.3 Reporting statements of conformity

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

7.4 Conclusion

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

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SIMULTANEOUS TRANSMISSION ANALYSIS

8.1 **Simultaneous Transmission Scenarios:**

Simultaneous Transmit Configurations	Body
WLAN 2.4GHz Ant 1 + WLAN 2.4GHz Ant 2	Yes
WLAN 2.4GHz Ant 1 + WLAN 2.4GHz Ant 2 + BT Ant 1	Yes
WLAN 5GHz Ant 1 + WLAN 5GHz Ant 2	Yes
WLAN 5GHz Ant 1 + WLAN 5GHz Ant 2 + BT Ant 1	Yes

Note:

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^{1.} For 2.4/5GHz WLAN Ant1 and Ant2 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:

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

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

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 (SAR1 + SAR2)^1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

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

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

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Simultaneous Transmission Combination

Vendor1

Vendor1				FCC Reported SAR	t .	Scenario 1	Scenario 2	Scenario 3	Scenario 4	
		1	2	3	4	5	1+2+	1+2+5	3+4	3+4+5
Exposure Pos	ition	2.4GHz WLAN Ant 1	2.4GHz WLAN Ant 2	5GHz WLAN Ant 1	5GHz WLAN Ant 2	Bluetooth Ant 1	Summed	Summed	Summed	Summed
		1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)				
Back Surface	0	0.209	0.194	0.263	0.378	0.055	0.403	0.458	0.641	0.696
Top Edge	0	0.326	0.302	0.339	0.482	0.103	0.628	0.731	0.821	0.924
Left Edge	0		0.103		0.224		0.103	0.103	0.224	0.224
Right Edge	0	0.091		0.096		0.012	0.091	0.103	0.096	0.108

Vendor2

Vendor2				FCC Reported SAR	t Total	Scenario 1	Scenario 2	Scenario 3	Scenario 4	
		1	2	3	4	5	1+2+	1+2+5	3+4	3+4+5
Exposure Pos	ition	2.4GHz WLAN Ant 1	2.4GHz WLAN Ant 2	5GHz WLAN Ant 1	5GHz WLAN Ant 2	Bluetooth Ant 1	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)
Back Surface	0	0.193	0.251	0.180	0.188	0.188	0.444	0.632	0.368	0.556
Top Edge	0	0.398	0.303	0.232	0.253	0.219	0.701	0.920	0.485	0.704
Left Edge	0		0.112		0.066		0.112	0.112	0.066	0.066
Right Edge	0	0.115		0.093		0.072	0.115	0.187	0.093	0.165

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

Equipment List										
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration					
SPEAG	Data acquisition Electronics	DAE4	1260	Sep/14/2023	Sep/13/2024					
SPEAG	Dosimetric E-Field Probe	EX3DV4	3770	May/23/2023	May/22/2024					
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2023	Apr/24/2024					
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/20/2023	Mar/19/2024					
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/27/2023	Feb/26/2024					
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/23/2023	May/22/2024					
Agilent	Dual-directional coupler	772D	MY46151258	Sep/26/2023	Sep/25/2024					
Agilent	Dual-directional coupler	778D	MY46151242	Sep/26/2023	Sep/25/2024					
EMCI	Amplifier	EMC 2830P	980156	Calibration not required	Calibration not required					
R&S	Power Meter	NRX	105651	Nov/25/2022	Nov/24/2023					
R&S	Power Sensor	NRP6A	104246	Nov/22/2022	Nov/21/2023					
R&S	Power Sensor	NRP6A	104247	Nov/22/2022	Nov/21/2023					
SPEAG	Software	DASY 52 V52.10.4.1527	N/A	Calibration not required	Calibration not required					
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required					
TECPEL	Digital thermometer	DTM-303A	TP131515	Jun/02/2023	Jun/01/2024					

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10 UNCERTAINTY BUDGET

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

A	С	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%	8
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	00
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	00
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%	8
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	80
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	80
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	80
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	80
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	00
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	00
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	80
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%	∞0
Liquid permittivity (mea.)	2.37%	N	1	1	0.64	0.43	1.52%	1.02%	М
Liquid Conductivity (mea.)	1.53%	N	1	1	0.6	0.49	0.92%	0.75%	М
Combined standard uncertainty		RSS					11.85%	11.77%	
Expant uncertainty (95% confidence interval), K=2							23.70%	23.55%	

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

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
lsotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
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%	8
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%	8
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
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%	8
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.08%	N	1	1	0.64	0.43	1.33%	0.89%	М
Liquid Conductivity (mea.)	0.78%	N	1	1	0.6	0.49	0.47%	0.38%	М
Combined standard uncertainty		RSS					11.50%	11.45%	
Expant uncertainty (95% confidence interval), K=2							23.01%	22.90%	

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11 SAR MEASUREMENT RESULTS

Date: 2023/11/5

ID: 001

Report No.: TESA2309000529EN

WLAN 802.11b_Body_Top Edge_CH 1_0mm_Ant1

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.081 Medium parameters used: f = 2412 MHz; $\sigma = 1.78 \text{ S/m}$; $\varepsilon_r = 40.08$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.87, 7.87, 7.87) @ 2412 MHz; Calibrated: 2023/5/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1260; Calibrated: 2023/9/14

Phantom: ELI

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

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.512 W/kg

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

Reference Value = 6.682 V/m; Power Drift = -0.17 dB

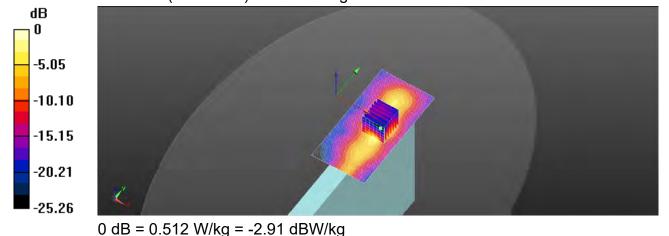
Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.145 W/kg

Smallest distance from peaks to all points 3 dB below = 7.3 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 0.469 W/kg



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Date: 2023/11/5

ID: 002

Report No.: TESA2309000529EN

Bluetooth(GFSK) Body Top Edge CH 78 0mm Ant1

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.302

Medium parameters used: f = 2480 MHz; $\sigma = 1.841 \text{ S/m}$; $\epsilon_r = 39.974$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.87, 7.87, 7.87) @ 2480 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.110 W/kg

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

Reference Value = 2.173 V/m; Power Drift = 0.09 dB

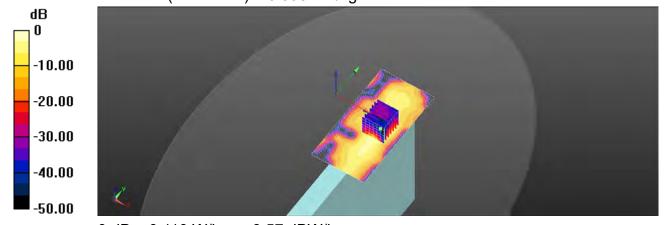
Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 q) = 0.060 W/kq; SAR(10 q) = 0.028 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 42.2%

Maximum value of SAR (measured) = 0.0982 W/kg



0 dB = 0.110 W/kg = -9.57 dBW/kg

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Date: 2023/11/6

ID: 003

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.2G Body Top Edge CH 42 0mm Ant1

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5210 MHz; $\sigma = 4.725 \text{ S/m}$; $\varepsilon_r = 36.786$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(5.44, 5.44, 5.44) @ 5210 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.573 W/kg

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

Reference Value = 2.308 V/m; Power Drift = 0.11 dB

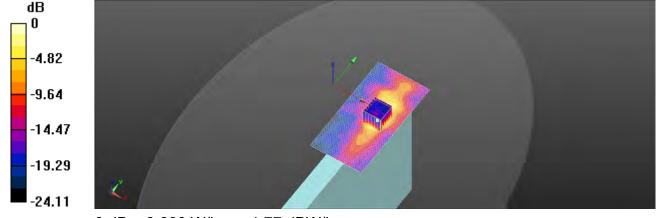
Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 q) = 0.327 W/kq; SAR(10 q) = 0.109 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 57.9%

Maximum value of SAR (measured) = 0.666 W/kg



0 dB = 0.666 W/kg = -1.77 dBW/kg

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Date: 2023/11/6

ID: 004

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.3G Body Top Edge CH 58 0mm Ant1

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5290 MHz; σ = 4.809 S/m; ε_r = 36.695; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(5.33, 5.33, 5.33) @ 5290 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.486 W/kg

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

Reference Value = 2.087 V/m; Power Drift = 0.08 dB

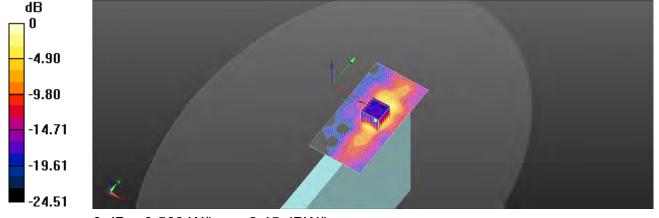
Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 q) = 0.289 W/kq; SAR(10 q) = 0.096 W/kq

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 0.569 W/kg



0 dB = 0.569 W/kg = -2.45 dBW/kg

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Date: 2023/11/7

ID: 005

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.6G Body Top Edge CH 138 0mm Ant1

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5690 MHz; σ = 5.231 S/m; ε_r = 36.238; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.1°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.84, 4.84, 4.84) @ 5690 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.554 W/kg

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

Reference Value = 3.868 V/m; Power Drift = -0.14 dB

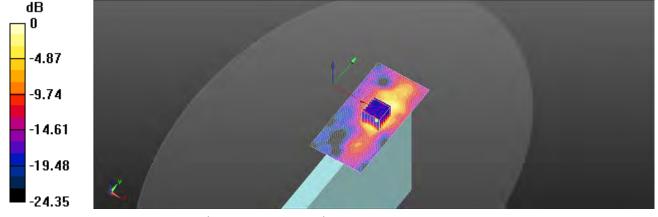
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 q) = 0.316 W/kq; SAR(10 q) = 0.109 W/kq

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

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

Maximum value of SAR (measured) = 0.634 W/kg



0 dB = 0.634 W/kg = -1.98 dBW/kg

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Date: 2023/11/8

ID: 006

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.8G Body Top Edge CH 155 0mm Ant1

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5775 MHz; $\sigma = 5.321$ S/m; $\varepsilon_r = 36.141$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.9, 4.9, 4.9) @ 5775 MHz; Calibrated: 2023/5/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.432 W/kg

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

Reference Value = 3.416 V/m; Power Drift = -0.08 dB

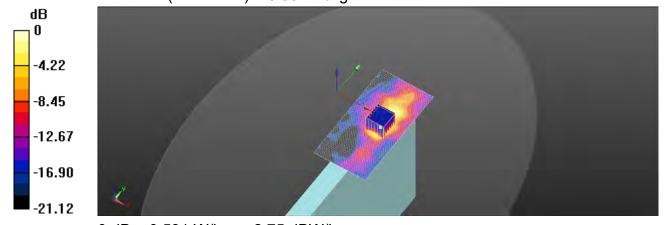
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 q) = 0.255 W/kq; SAR(10 q) = 0.093 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 0.531 W/kg



0 dB = 0.531 W/kg = -2.75 dBW/kg

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Date: 2023/11/5

ID: 007

Report No.: TESA2309000529EN

WLAN 802.11b Body Top Edge CH 1 0mm Ant2

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.081 Medium parameters used: f = 2412 MHz; $\sigma = 1.78 \text{ S/m}$; $\epsilon_r = 40.08$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.87, 7.87, 7.87) @ 2412 MHz; Calibrated: 2023/5/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.469 W/kg

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

Reference Value = 4.828 V/m; Power Drift = -0.11 dB

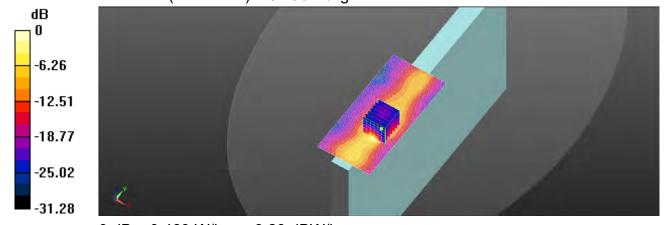
Peak SAR (extrapolated) = 0.714 W/kg

SAR(1 q) = 0.279 W/kq; SAR(10 q) = 0.117 W/kq

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 41.5%

Maximum value of SAR (measured) = 0.498 W/kg



0 dB = 0.469 W/kg = -3.29 dBW/kg

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Date: 2023/11/6

ID: 008

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.2G Body Top Edge CH 42 0mm Ant2

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5210 MHz; $\sigma = 4.725 \text{ S/m}$; $\varepsilon_r = 36.786$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(5.44, 5.44, 5.44) @ 5210 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.551 W/kg

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

Reference Value = 2.592 V/m; Power Drift = 0.07 dB

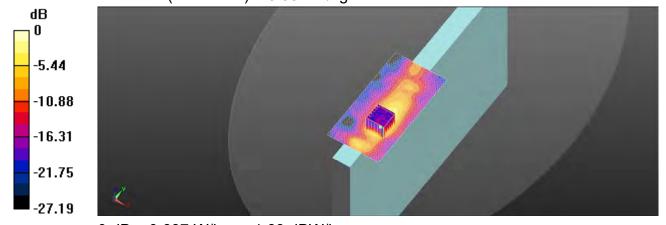
Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 q) = 0.340 W/kq; SAR(10 q) = 0.109 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 0.687 W/kg



0 dB = 0.687 W/kg = -1.63 dBW/kg

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Date: 2023/11/6

ID: 009

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.3G Body Top Edge CH 58 0mm Ant2

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5290 MHz; σ = 4.809 S/m; ε_r = 36.695; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(5.33, 5.33, 5.33) @ 5290 MHz; Calibrated: 2023/5/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1260; Calibrated: 2023/9/14

Phantom: ELI

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

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.611 W/kg

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

Reference Value = 2.623 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 q) = 0.367 W/kq; SAR(10 q) = 0.117 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 58.4%

Maximum value of SAR (measured) = 0.740 W/kg

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

Reference Value = 2.623 V/m; Power Drift = -0.15 dB

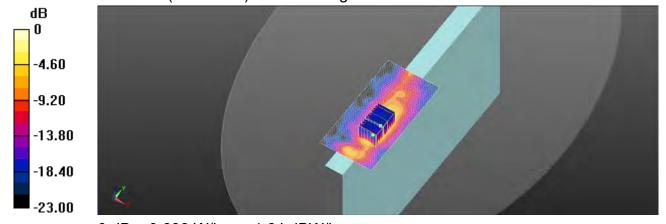
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.113 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

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

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



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

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Date: 2023/11/7

ID: 010

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.6G Body Top Edge CH 138 0mm Ant2

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5690 MHz; σ = 5.231 S/m; ε_r = 36.238; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.1°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.84, 4.84, 4.84) @ 5690 MHz; Calibrated: 2023/5/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1260; Calibrated: 2023/9/14

Phantom: ELI

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

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.700 W/kg

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

Reference Value = 2.923 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 q) = 0.443 W/kq; SAR(10 q) = 0.137 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 54.5%

Maximum value of SAR (measured) = 0.935 W/kg

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

Reference Value = 2.923 V/m; Power Drift = -0.12 dB

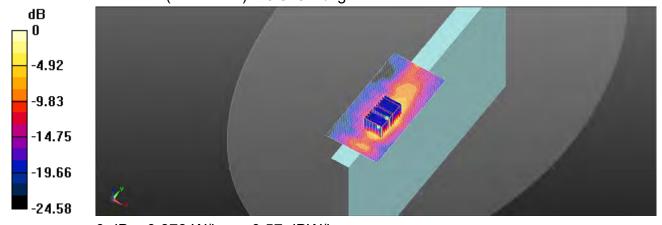
Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.116 W/kg

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

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

Maximum value of SAR (measured) = 0.878 W/kg



0 dB = 0.878 W/kg = -0.57 dBW/kg

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Date: 2023/11/8

ID: 011

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.8G_Body_Top Edge_CH 155_0mm_Ant2

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5775 MHz; $\sigma = 5.321$ S/m; $\epsilon_r = 36.141$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.9, 4.9, 4.9) @ 5775 MHz; Calibrated: 2023/5/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1260; Calibrated: 2023/9/14

Phantom: ELI

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

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 3.119 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 0.460 W/kg; SAR(10 g) = 0.141 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 0.969 W/kg

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

Reference Value = 3.119 V/m; Power Drift = -0.04 dB

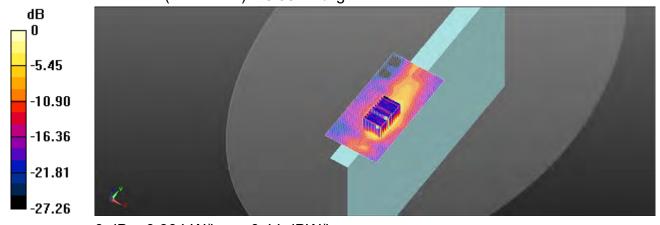
Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.111 W/kg

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

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

Maximum value of SAR (measured) = 0.904 W/kg



0 dB = 0.904 W/kg = -0.44 dBW/kg

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Date: 2023/11/5

ID: 012

Report No.: TESA2309000529EN

WLAN 802.11b Body Top Edge CH 1 0mm Ant1

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.081 Medium parameters used: f = 2412 MHz; $\sigma = 1.78 \text{ S/m}$; $\epsilon_r = 40.08$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.87, 7.87, 7.87) @ 2412 MHz; Calibrated: 2023/5/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.618 W/kg

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

Reference Value = 6.312 V/m; Power Drift = 0.07 dB

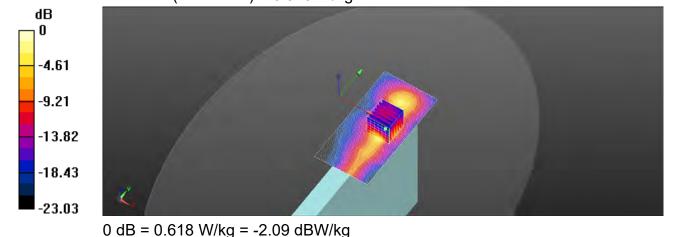
Peak SAR (extrapolated) = 0.685 W/kg

SAR(1 q) = 0.367 W/kq; SAR(10 q) = 0.176 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 0.549 W/kg



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Date: 2023/11/5

ID: 013

Report No.: TESA2309000529EN

Bluetooth(GFSK)_Body_Top Edge CH 78 0mm Ant1

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.302

Medium parameters used: f = 2480 MHz; $\sigma = 1.841 \text{ S/m}$; $\epsilon_r = 39.974$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.87, 7.87, 7.87) @ 2480 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.180 W/kg

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

Reference Value = 4.852 V/m; Power Drift = 0.12 dB

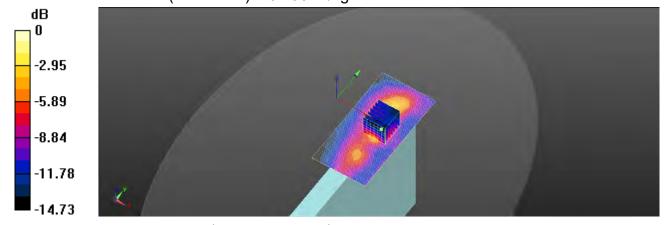
Peak SAR (extrapolated) = 0.265 W/kg

SAR(1 q) = 0.127 W/kq; SAR(10 q) = 0.061 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 43.7%

Maximum value of SAR (measured) = 0.190 W/kg



0 dB = 0.180 W/kg = -7.46 dBW/kg

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Date: 2023/11/6

ID: 014

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.2G Body Top Edge CH 42 0mm Ant1

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5210 MHz; $\sigma = 4.725 \text{ S/m}$; $\varepsilon_r = 36.786$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.44, 5.44, 5.44) @ 5210 MHz; Calibrated: 2023/5/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.251 W/kg

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

Reference Value = 3.043 V/m: Power Drift = -0.12 dB

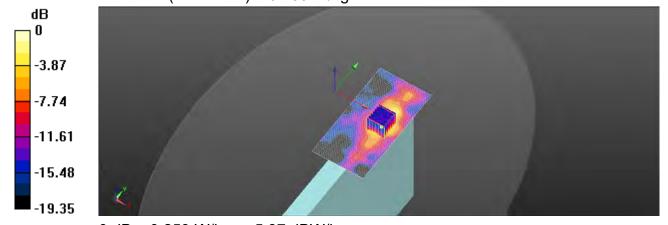
Peak SAR (extrapolated) = 0.491 W/kg

SAR(1 q) = 0.142 W/kq; SAR(10 q) = 0.056 W/kq

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.9%

Maximum value of SAR (measured) = 0.259 W/kg



0 dB = 0.259 W/kg = -5.87 dBW/kg

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Date: 2023/11/6

ID: 015

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.3G Body Top Edge CH 58 0mm Ant1

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5290 MHz; $\sigma = 4.809 \text{ S/m}$; $\varepsilon_r = 36.695$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(5.33, 5.33, 5.33) @ 5290 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.384 W/kg

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

Reference Value = 3.102 V/m; Power Drift = 0.14 dB

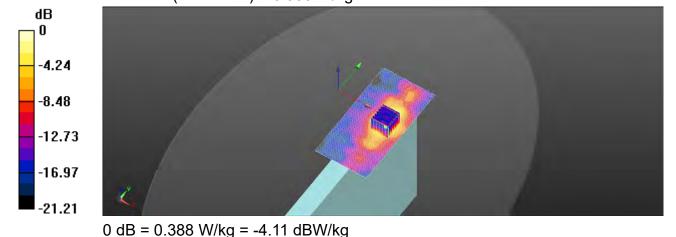
Peak SAR (extrapolated) = 0.789 W/kg

SAR(1 q) = 0.214 W/kq; SAR(10 q) = 0.083 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 0.388 W/kg



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Date: 2023/11/7

ID: 016

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.6G Body Top Edge CH 138 0mm Ant1

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5690 MHz; σ = 5.231 S/m; ε_r = 36.238; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.1°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.84, 4.84, 4.84) @ 5690 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.437 W/kg

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

Reference Value = 3.045 V/m; Power Drift = -0.05 dB

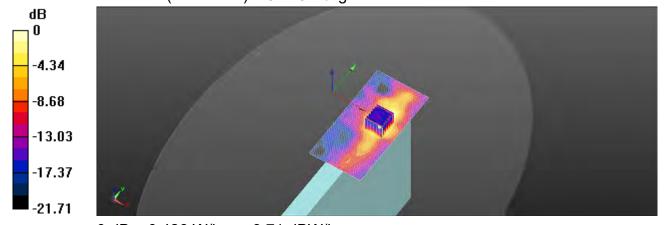
Peak SAR (extrapolated) = 0.875 W/kg

SAR(1 q) = 0.217 W/kq; SAR(10 q) = 0.092 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 56%

Maximum value of SAR (measured) = 0.426 W/kg



0 dB = 0.426 W/kg = -3.71 dBW/kg

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Date: 2023/11/8

ID: 017

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.8G Body Top Edge CH 155 0mm Ant1

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5775 MHz; $\sigma = 5.321$ S/m; $\varepsilon_r = 36.141$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.9, 4.9, 4.9) @ 5775 MHz; Calibrated: 2023/5/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1260; Calibrated: 2023/9/14

Phantom: ELI

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

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.417 W/kg

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

Reference Value = 2.694 V/m; Power Drift = 0.03 dB

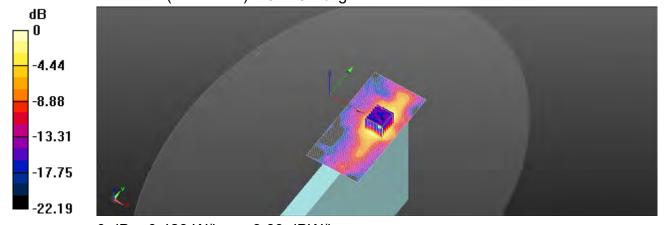
Peak SAR (extrapolated) = 0.896 W/kg

SAR(1 q) = 0.224 W/kq; SAR(10 q) = 0.090 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 55.1%

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



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

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ID: 018

Report No.: TESA2309000529EN

WLAN 802.11b Body Top Edge CH 1 0mm Ant2

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.081 Medium parameters used: f = 2412 MHz; $\sigma = 1.78 \text{ S/m}$; $\epsilon_r = 40.08$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.87, 7.87, 7.87) @ 2412 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.458 W/kg

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

Reference Value = 6.713 V/m; Power Drift = 0.02 dB

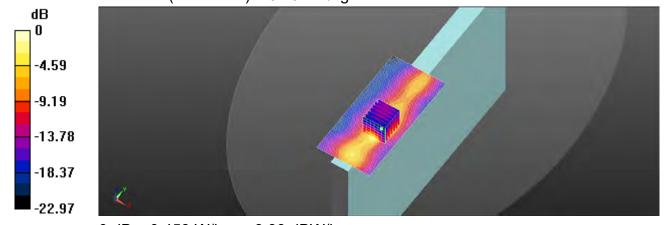
Peak SAR (extrapolated) = 0.579 W/kg

SAR(1 q) = 0.280 W/kq; SAR(10 q) = 0.133 W/kq

Smallest distance from peaks to all points 3 dB below = 7.3 mm

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

Maximum value of SAR (measured) = 0.437 W/kg



0 dB = 0.458 W/kg = -3.39 dBW/kg

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Date: 2023/11/6

ID: 019

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.2G Body Top Edge CH 42 0mm Ant2

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5210 MHz; $\sigma = 4.725 \text{ S/m}$; $\varepsilon_r = 36.786$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(5.44, 5.44, 5.44) @ 5210 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.403 W/kg

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

Reference Value = 3.788 V/m; Power Drift = 0.13 dB

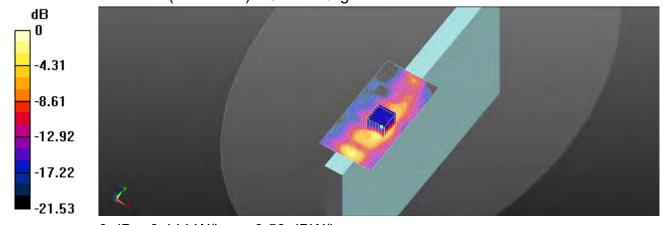
Peak SAR (extrapolated) = 0.805 W/kg

SAR(1 q) = 0.231 W/kq; SAR(10 q) = 0.081 W/kq

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

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

Maximum value of SAR (measured) = 0.444 W/kg



0 dB = 0.444 W/kg = -3.53 dBW/kg

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Date: 2023/11/6

ID: 020

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.3G Body Top Edge CH 58 0mm Ant2

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5290 MHz; σ = 4.809 S/m; ε_r = 36.695; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(5.33, 5.33, 5.33) @ 5290 MHz; Calibrated: 2023/5/23

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.397 W/kg

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

Reference Value = 3.709 V/m; Power Drift = -0.12 dB

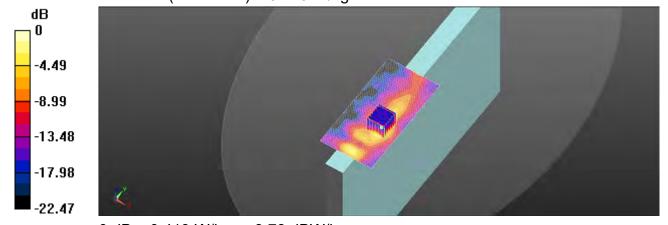
Peak SAR (extrapolated) = 0.789 W/kg

SAR(1 q) = 0.224 W/kq; SAR(10 q) = 0.079 W/kq

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

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

Maximum value of SAR (measured) = 0.419 W/kg



0 dB = 0.419 W/kg = -3.78 dBW/kg

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Date: 2023/11/7

ID: 021

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.6G Body Top Edge CH 138 0mm Ant2

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5690 MHz; σ = 5.231 S/m; ε_r = 36.238; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.84, 4.84, 4.84) @ 5690 MHz; Calibrated: 2023/5/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.268 W/kg

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

Reference Value = 3.177 V/m; Power Drift = -0.02 dB

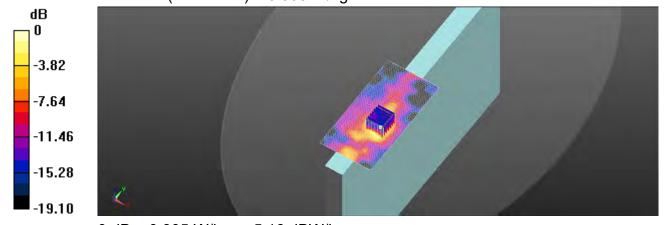
Peak SAR (extrapolated) = 0.607 W/kg

SAR(1 q) = 0.155 W/kq; SAR(10 q) = 0.062 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 59.2%

Maximum value of SAR (measured) = 0.305 W/kg



0 dB = 0.305 W/kg = -5.16 dBW/kg

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Date: 2023/11/8

ID: 022

Report No.: TESA2309000529EN

WLAN 802.11ac(80M) 5.8G Body Top Edge CH 155 0mm Ant2

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.119 Medium parameters used: f = 5775 MHz; $\sigma = 5.321$ S/m; $\varepsilon_r = 36.141$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.9, 4.9, 4.9) @ 5775 MHz; Calibrated: 2023/5/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.392 W/kg

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

Reference Value = 3.937 V/m; Power Drift = 0.03 dB

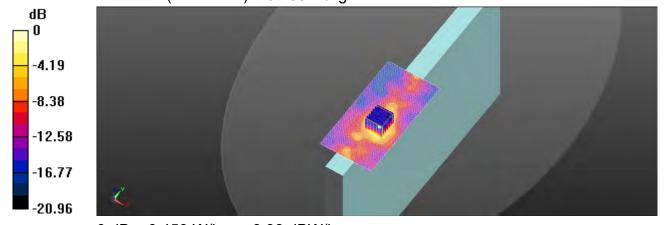
Peak SAR (extrapolated) = 0.829 W/kg

SAR(1 q) = 0.242 W/kq; SAR(10 q) = 0.095 W/kq

Smallest distance from peaks to all points 3 dB below = 7.9 mm

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

Maximum value of SAR (measured) = 0.459 W/kg



0 dB = 0.459 W/kg = -3.38 dBW/kg

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12 SAR SYSTEM CHECK RESULTS

Date: 2023/11/5

Report No.: TESA2309000529EN

Dipole 2450 MHz SN:727

Communication System: UID 10000, CW; Frequency: 2450 MHz; Duty cycle= 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 1.814 \text{ S/m}$; $\varepsilon_r = 40.012$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.87, 7.87, 7.87) @ 2450 MHz; Calibrated: 2023/5/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1260; Calibrated: 2023/9/14

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) = 21.3 W/kg

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

Reference Value = 106.0 V/m: Power Drift = 0.03 dB

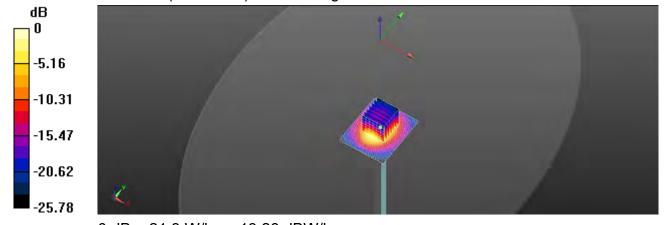
Peak SAR (extrapolated) = 25.5 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.49 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

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

Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 21.3 W/kg = 13.28 dBW/kg

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Date: 2023/11/6

Report No. :TESA2309000529EN Dipole 5250 MHz_SN:1349

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

Medium parameters used: f = 5250 MHz; $\sigma = 4.767 \text{ S/m}$; $\epsilon_r = 36.741$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(5.33, 5.33, 5.33) @ 5250 MHz; Calibrated: 2023/5/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1260; Calibrated: 2023/9/14

Phantom: ELI

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

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

Maximum value of SAR (interpolated) = 15.8 W/kg

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

Reference Value = 57.95 V/m; Power Drift = -0.07 dB

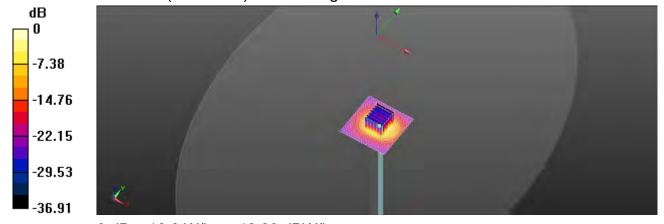
Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.31 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

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Date: 2023/11/7

Report No.: TESA2309000529EN Dipole 5600 MHz_SN:1349

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

Medium parameters used: f = 5600 MHz; $\sigma = 5.137 \text{ S/m}$; $\epsilon_r = 36.341$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.1°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.84, 4.84, 4.84) @ 5600 MHz; Calibrated: 2023/5/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1260: Calibrated: 2023/9/14

Phantom: ELI

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

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

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

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

Reference Value = 58.97 V/m; Power Drift = 0.02 dB

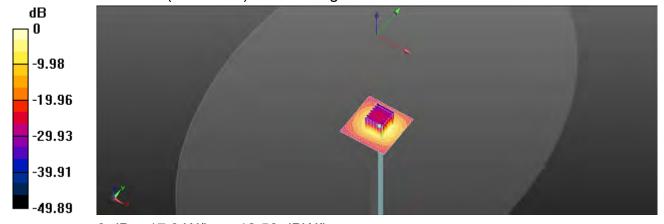
Peak SAR (extrapolated) = 36.1 W/kg

SAR(1 g) = 8.49 W/kg; SAR(10 g) = 2.4 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 17.9 W/kg



0 dB = 17.9 W/kg = 12.53 dBW/kg

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Date: 2023/11/8

Report No. :TESA2309000529EN Dipole 5750 MHz_SN:1349

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

Medium parameters used: f = 5750 MHz; $\sigma = 5.298 \text{ S/m}$; $\varepsilon_r = 36.167$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.9, 4.9, 4.9) @ 5750 MHz; Calibrated: 2023/5/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1260; Calibrated: 2023/9/14

Phantom: ELI

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

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

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

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

Reference Value = 59.97 V/m; Power Drift = 0.06 dB

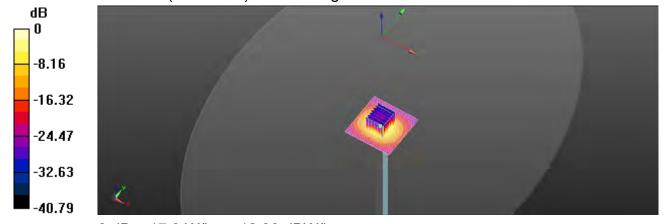
Peak SAR (extrapolated) = 34.7 W/kg

SAR(1 g) = 8.11 W/kg; SAR(10 g) = 2.31 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%

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



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

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Refer to separated files for the following appendixes.

- 13.1 SAR_Appendix A Photographs
- 13.2 SAR Appendix B DAE & Probe Cal. Certificate
- SAR Appendix C Phantom Description & Dipole Cal. Certificate 13.3

- End of report -

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