




Maximum Permissible Exposure Evaluation

FCC ID: 2AAS9-MI13&IC:26296-MI13

1. Client Information

Applicant	:	BROWAN COMMUNICATIONS INCORPORATION
Address	:	No.15-1, Zhonghua Rd., Hsinchu Industrial Park, Hukou Hsinchu Hsien Taiwan 303
Manufacturer	:	Suzhou WINTECH Electronics Technology Co., Ltd
Address	:	Room#301, L2, Build#27, No.568 South Zhongshan Road, Taihu New City Town, Wujiang District, Suzhou City, China

2. General Description of EUT

EUT Name	:	Wi-Fi 6 AX1800 Dual-Radio In-Wall AP		
HVIN/Models No.	:	MI13		
Brand Name	:			
Model Different	:	N/A		
Sample ID	:	202206-0131-3-1#&202206-0131-3-2#		
Product Description	:	<table border="0"> <tr> <td>Operation Frequency:</td> <td>U-NII-1: 5180MHz~5240MHz U-NII-2A: 5260MHz~5320MHz U-NII-2C: 5500MHz~5720MHz U-NII-3: 5745MHz~5825MHz 802.11b/g/n(HT20)/ax(HE20)/n(HT40)/ax(HE40): 2412MHz~2462MHz</td> </tr> </table>	Operation Frequency:	U-NII-1: 5180MHz~5240MHz U-NII-2A: 5260MHz~5320MHz U-NII-2C: 5500MHz~5720MHz U-NII-3: 5745MHz~5825MHz 802.11b/g/n(HT20)/ax(HE20)/n(HT40)/ax(HE40): 2412MHz~2462MHz
Operation Frequency:	U-NII-1: 5180MHz~5240MHz U-NII-2A: 5260MHz~5320MHz U-NII-2C: 5500MHz~5720MHz U-NII-3: 5745MHz~5825MHz 802.11b/g/n(HT20)/ax(HE20)/n(HT40)/ax(HE40): 2412MHz~2462MHz			
Power Rating	:	POE Input: 56V=0.55A		
Software Version	:	1.0.0		
Hardware Version	:	V1.0		
Remark	:	The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.		

Method of Measurement for FCC

1. Max. Antenna Gain:

Band	Antenna Type	Antenna Gain	
		Antenna 1	Antenna 2
2.4G WiFi	FPC	3.9025	4.7514
U-NII-1		5.1312	4.8076
U-NII-2A		5.1312	4.7922
U-NII-2C		3.9670	4.0104
U-NII-3		4.1829	4.6852

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = (PG) / 4\pi R^2$$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

Simultaneous transmission MPE Considerations

According to KDB447498: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 .

This means that:

$$\sum \text{ of MPE ratios } \leq 1.0$$

4. Test Result:

2.4G WiFi MPE Result								
Test Mode	Antenna	Channel	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
11B	Ant1	2412	17.33	17±1	18	3.9025	20	0.0308
	Ant2	2412	17.17	17±1	18	4.7514	20	0.0375
	Ant1	2437	17.16	17±1	18	3.9025	20	0.0308
	Ant2	2437	17.00	17±1	18	4.7514	20	0.0375
	Ant1	2462	16.88	17±1	18	3.9025	20	0.0308
	Ant2	2462	16.97	17±1	18	4.7514	20	0.0375
11G	Ant1	2412	14.49	14±1	15	3.9025	20	0.0155
	Ant2	2412	14.02	14±1	15	4.7514	20	0.0188
	Ant1	2437	14.33	14±1	15	3.9025	20	0.0155
	Ant2	2437	13.88	14±1	15	4.7514	20	0.0188
	Ant1	2462	14.13	14±1	15	3.9025	20	0.0155
	Ant2	2462	13.94	14±1	15	4.7514	20	0.0188
11N20	Ant1	2412	12.59	12±1	13	3.9025	20	0.0097
	Ant2	2412	12.02	12±1	13	4.7514	20	0.0119
	Ant1	2437	12.44	12±1	13	3.9025	20	0.0097
	Ant2	2437	11.90	12±1	13	4.7514	20	0.0119
	Ant1	2462	12.21	12±1	13	3.9025	20	0.0097
	Ant2	2462	11.98	12±1	13	4.7514	20	0.0119
11N40	Ant1	2422	10.28	10±1	11	3.9025	20	0.0062
	Ant2	2422	9.81	10±1	11	4.7514	20	0.0075
	Ant1	2437	10.28	10±1	11	3.9025	20	0.0062
	Ant2	2437	9.69	10±1	11	4.7514	20	0.0075
	Ant1	2452	10.26	10±1	11	3.9025	20	0.0062
	Ant2	2452	9.64	10±1	11	4.7514	20	0.0075
11AX20	Ant1	2412	10.24	10±1	11	3.9025	20	0.0062
	Ant2	2412	9.72	10±1	11	4.7514	20	0.0075
	Ant1	2437	10.10	10±1	11	3.9025	20	0.0062
	Ant2	2437	9.53	10±1	11	4.7514	20	0.0075
	Ant1	2462	9.97	10±1	11	3.9025	20	0.0062
	Ant2	2462	9.37	10±1	11	4.7514	20	0.0075
11AX40	Ant1	2422	10.35	10±1	11	3.9025	20	0.0062
	Ant2	2422	9.85	10±1	11	4.7514	20	0.0075
	Ant1	2437	10.32	10±1	11	3.9025	20	0.0062
	Ant2	2437	9.77	10±1	11	4.7514	20	0.0075
	Ant1	2452	10.23	10±1	11	3.9025	20	0.0062
	Ant2	2452	9.72	10±1	11	4.7514	20	0.0075

Note: RF Output power specifies that Maximum Conducted Peak Output Power.

5G Wi-Fi(U-NII-1) MPE Result								
Test Mode	Antenna	Channel	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
11A	Ant1	5180	18.59	18±1	19	5.1312	20	0.0515
	Ant2	5180	18.61	18±1	19	4.8076	20	0.0478
	Ant1	5220	18.74	18±1	19	5.1312	20	0.0515
	Ant2	5220	18.71	18±1	19	4.8076	20	0.0478
	Ant1	5240	18.57	18±1	19	5.1312	20	0.0515
	Ant2	5240	18.62	18±1	19	4.8076	20	0.0478
11N20	Ant1	5180	16.25	16±1	17	5.1312	20	0.0325
	Ant2	5180	15.74	16±1	17	4.8076	20	0.0302
	Ant1	5220	16.28	16±1	17	5.1312	20	0.0325
	Ant2	5220	15.95	16±1	17	4.8076	20	0.0302
	Ant1	5240	16.20	16±1	17	5.1312	20	0.0325
	Ant2	5240	15.68	16±1	17	4.8076	20	0.0302
11N40	Ant1	5190	16.57	16±1	17	5.1312	20	0.0325
	Ant2	5190	15.87	16±1	17	4.8076	20	0.0302
	Ant1	5230	16.63	16±1	17	5.1312	20	0.0325
	Ant2	5230	15.92	16±1	17	4.8076	20	0.0302
11AC20	Ant1	5180	15.31	15±1	16	5.1312	20	0.0258
	Ant2	5180	14.78	15±1	16	4.8076	20	0.0240
	Ant1	5220	17.02	17±1	18	5.1312	20	0.0409
	Ant2	5220	16.64	17±1	18	4.8076	20	0.0380
	Ant1	5240	16.81	17±1	18	5.1312	20	0.0409
	Ant2	5240	16.64	17±1	18	4.8076	20	0.0380
11AC40	Ant1	5190	17.42	17±1	18	5.1312	20	0.0409
	Ant2	5190	16.68	17±1	18	4.8076	20	0.0380
	Ant1	5230	17.24	17±1	18	5.1312	20	0.0409
	Ant2	5230	16.88	17±1	18	4.8076	20	0.0380
11AC80	Ant1	5210	16.42	16±1	17	5.1312	20	0.0325
	Ant2	5210	15.75	16±1	17	4.8076	20	0.0302
11AX20	Ant1	5180	16.37	16±1	17	5.1312	20	0.0325
	Ant2	5180	15.98	16±1	17	4.8076	20	0.0302
	Ant1	5220	16.55	16±1	17	5.1312	20	0.0325
	Ant2	5220	16.15	16±1	17	4.8076	20	0.0302
	Ant1	5240	16.33	16±1	17	5.1312	20	0.0325
	Ant2	5240	15.99	16±1	17	4.8076	20	0.0302
11AX40	Ant1	5190	16.78	16±1	17	5.1312	20	0.0325
	Ant2	5190	16.10	16±1	17	4.8076	20	0.0302
	Ant1	5230	16.84	16±1	17	5.1312	20	0.0325
	Ant2	5230	16.18	16±1	17	4.8076	20	0.0302
11AX80	Ant1	5210	16.59	16±1	17	5.1312	20	0.0325
	Ant2	5210	15.89	16±1	17	4.8076	20	0.0302

Note: RF Output power specifies that Maximum Conducted Peak Output Power.

5G Wi-Fi(U-NII-2A) MPE Result								
Test Mode	Antenna	Channel	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
11A	Ant1	5260	18.34	18±1	19	5.1312	20	0.0515
	Ant2	5260	18.33	18±1	19	4.7922	20	0.0476
	Ant1	5300	18.34	18±1	19	5.1312	20	0.0515
	Ant2	5300	18.48	18±1	19	4.7922	20	0.0476
	Ant1	5320	18.41	18±1	19	5.1312	20	0.0515
	Ant2	5320	18.74	18±1	19	4.7922	20	0.0476
11N20	Ant1	5260	15.89	16±1	17	5.1312	20	0.0325
	Ant2	5260	15.56	16±1	17	4.7922	20	0.0301
	Ant1	5300	15.94	16±1	17	5.1312	20	0.0325
	Ant2	5300	15.75	16±1	17	4.7922	20	0.0301
	Ant1	5320	16.02	16±1	17	5.1312	20	0.0325
	Ant2	5320	15.92	16±1	17	4.7922	20	0.0301
11N40	Ant1	5270	18.47	18±1	19	5.1312	20	0.0515
	Ant2	5270	18.36	18±1	19	4.7922	20	0.0476
	Ant1	5310	18.64	18±1	19	5.1312	20	0.0515
	Ant2	5310	18.65	18±1	19	4.7922	20	0.0476
11AC20	Ant1	5260	16.58	16±1	17	5.1312	20	0.0325
	Ant2	5260	16.38	16±1	17	4.7922	20	0.0301
	Ant1	5300	18.06	18±1	19	5.1312	20	0.0515
	Ant2	5300	18.32	18±1	19	4.7922	20	0.0476
	Ant1	5320	18.24	18±1	19	5.1312	20	0.0515
	Ant2	5320	18.41	18±1	19	4.7922	20	0.0476
11AC40	Ant1	5270	18.46	18±1	19	5.1312	20	0.0515
	Ant2	5270	18.35	18±1	19	4.7922	20	0.0476
	Ant1	5310	18.60	18±1	19	5.1312	20	0.0515
	Ant2	5310	18.60	18±1	19	4.7922	20	0.0476
11AC80	Ant1	5290	18.28	18±1	19	5.1312	20	0.0515
	Ant2	5290	18.21	18±1	19	4.7922	20	0.0476
11AX20	Ant1	5260	18.25	18±1	19	5.1312	20	0.0515
	Ant2	5260	18.31	18±1	19	4.7922	20	0.0476
	Ant1	5300	18.29	18±1	19	5.1312	20	0.0515
	Ant2	5300	18.46	18±1	19	4.7922	20	0.0476
	Ant1	5320	18.27	18±1	19	5.1312	20	0.0515
	Ant2	5320	18.70	18±1	19	4.7922	20	0.0476
11AX40	Ant1	5270	18.61	18±1	19	5.1312	20	0.0515
	Ant2	5270	18.51	18±1	19	4.7922	20	0.0476
	Ant1	5310	18.76	18±1	19	5.1312	20	0.0515
	Ant2	5310	18.81	18±1	19	4.7922	20	0.0476
11AX80	Ant1	5290	18.48	18±1	19	5.1312	20	0.0515
	Ant2	5290	18.45	18±1	19	4.7922	20	0.0476

Note: RF Output power specifies that Maximum Conducted Peak Output Power.

5G Wi-Fi(U-NII-2C) MPE Result								
Mode	Antenna	Channel	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
11A	Ant1	5500	17.61	18±1	19	3.9670	20	0.0394
	Ant2	5500	18.63	18±1	19	4.0104	20	0.0398
	Ant1	5580	18.08	18±1	19	3.9670	20	0.0394
	Ant2	5580	18.42	18±1	19	4.0104	20	0.0398
	Ant1	5720	18.18	18±1	19	3.9670	20	0.0394
	Ant2	5720	18.27	18±1	19	4.0104	20	0.0398
11N20	Ant1	5500	15.22	16±1	17	3.9670	20	0.0249
	Ant2	5500	15.73	16±1	17	4.0104	20	0.0251
	Ant1	5580	17.81	18±1	19	3.9670	20	0.0394
	Ant2	5580	18.29	18±1	19	4.0104	20	0.0398
	Ant1	5720	17.90	18±1	19	3.9670	20	0.0394
	Ant2	5720	18.13	18±1	19	4.0104	20	0.0398
11N40	Ant1	5510	17.76	18±1	19	3.9670	20	0.0394
	Ant2	5510	18.44	18±1	19	4.0104	20	0.0398
	Ant1	5550	18.18	18±1	19	3.9670	20	0.0394
	Ant2	5550	18.26	18±1	19	4.0104	20	0.0398
	Ant1	5710	18.29	18±1	19	3.9670	20	0.0394
	Ant2	5710	18.34	18±1	19	4.0104	20	0.0398
11AC20	Ant1	5500	17.28	18±1	19	3.9670	20	0.0394
	Ant2	5500	18.30	18±1	19	4.0104	20	0.0398
	Ant1	5580	17.77	18±1	19	3.9670	20	0.0394
	Ant2	5580	18.19	18±1	19	4.0104	20	0.0398
	Ant1	5720	17.95	18±1	19	3.9670	20	0.0394
	Ant2	5720	18.09	18±1	19	4.0104	20	0.0398
11AC40	Ant1	5510	17.78	18±1	19	3.9670	20	0.0394
	Ant2	5510	18.38	18±1	19	4.0104	20	0.0398
	Ant1	5550	18.10	18±1	19	3.9670	20	0.0394
	Ant2	5550	18.21	18±1	19	4.0104	20	0.0398
	Ant1	5710	18.25	18±1	19	3.9670	20	0.0394
	Ant2	5710	18.32	18±1	19	4.0104	20	0.0398
11AC80	Ant1	5530	17.78	18±1	19	3.9670	20	0.0394
	Ant2	5530	18.01	18±1	19	4.0104	20	0.0398
	Ant1	5690	17.94	18±1	19	3.9670	20	0.0394
	Ant2	5690	18.30	18±1	19	4.0104	20	0.0398
11AX20	Ant1	5500	17.45	18±1	19	3.9670	20	0.0394
	Ant2	5500	18.55	18±1	19	4.0104	20	0.0398
	Ant1	5580	17.89	18±1	19	3.9670	20	0.0394
	Ant2	5580	18.38	18±1	19	4.0104	20	0.0398
	Ant1	5720	18.15	18±1	19	3.9670	20	0.0394
	Ant2	5720	18.39	18±1	19	4.0104	20	0.0398
11AX40	Ant1	5510	17.78	18±1	19	3.9670	20	0.0394
	Ant2	5510	18.57	18±1	19	4.0104	20	0.0398
	Ant1	5550	18.19	18±1	19	3.9670	20	0.0394
	Ant2	5550	18.35	18±1	19	4.0104	20	0.0398

	Ant1	5710	18.35	18±1	19	3.9670	20	0.0394
	Ant2	5710	18.38	18±1	19	4.0104	20	0.0398
11AX80	Ant1	5530	17.91	18±1	19	3.9670	20	0.0394
	Ant2	5530	18.28	18±1	19	4.0104	20	0.0398
	Ant1	5690	18.09	18±1	19	3.9670	20	0.0394
	Ant2	5690	18.47	18±1	19	4.0104	20	0.0398
Note: RF Output power specifies that Maximum Conducted Peak Output Power.								

5G Wi-Fi(U-NII-3) MPE Result								
Test Mode	Antenna	Channel	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
11A	Ant1	5745	18.35	18±1	19	4.1829	20	0.0414
	Ant2	5745	18.35	18±1	19	4.6852	20	0.0465
	Ant1	5785	18.19	18±1	19	4.1829	20	0.0414
	Ant2	5785	17.54	18±1	19	4.6852	20	0.0465
	Ant1	5825	18.22	18±1	19	4.1829	20	0.0414
	Ant2	5825	17.21	18±1	19	4.6852	20	0.0465
11N20	Ant1	5745	18.07	18±1	19	4.1829	20	0.0414
	Ant2	5745	18.07	18±1	19	4.6852	20	0.0465
	Ant1	5785	17.99	18±1	19	4.1829	20	0.0414
	Ant2	5785	17.32	18±1	19	4.6852	20	0.0465
	Ant1	5825	18.00	18±1	19	4.1829	20	0.0414
	Ant2	5825	16.91	17±1	18	4.6852	20	0.0369
11N40	Ant1	5755	18.40	18±1	19	4.1829	20	0.0414
	Ant2	5755	17.94	18±1	19	4.6852	20	0.0465
	Ant1	5795	18.39	18±1	19	4.1829	20	0.0414
	Ant2	5795	17.24	18±1	19	4.6852	20	0.0465
11AC20	Ant1	5745	18.06	18±1	19	4.1829	20	0.0414
	Ant2	5745	18.07	18±1	19	4.6852	20	0.0465
	Ant1	5785	17.97	18±1	19	4.1829	20	0.0414
	Ant2	5785	17.12	18±1	19	4.6852	20	0.0465
	Ant1	5825	17.94	18±1	19	4.1829	20	0.0414
	Ant2	5825	16.87	17±1	18	4.6852	20	0.0369
11AC40	Ant1	5755	18.35	18±1	19	4.1829	20	0.0414
	Ant2	5755	17.93	18±1	19	4.6852	20	0.0465
	Ant1	5795	18.27	18±1	19	4.1829	20	0.0414
	Ant2	5795	17.08	18±1	19	4.6852	20	0.0465
11AC80	Ant1	5775	18.24	18±1	19	4.1829	20	0.0414
	Ant2	5775	17.25	18±1	19	4.6852	20	0.0465
11AX20	Ant1	5745	18.25	18±1	19	4.1829	20	0.0414
	Ant2	5745	18.26	18±1	19	4.6852	20	0.0465
	Ant1	5785	18.10	18±1	19	4.1829	20	0.0414
	Ant2	5785	17.47	18±1	19	4.6852	20	0.0465
	Ant1	5825	18.12	18±1	19	4.1829	20	0.0414
	Ant2	5825	17.16	18±1	19	4.6852	20	0.0465
11AX40	Ant1	5755	18.44	18±1	19	4.1829	20	0.0414
	Ant2	5755	17.98	18±1	19	4.6852	20	0.0465
	Ant1	5795	18.40	18±1	19	4.1829	20	0.0414
	Ant2	5795	17.28	18±1	19	4.6852	20	0.0465
11AX80	Ant1	5775	18.37	18±1	19	4.1829	20	0.0414
	Ant2	5775	17.61	18±1	19	4.6852	20	0.0465

Note: RF Output power specifies that Maximum Conducted Peak Output Power.

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm ²)
300-1,500	F/1500
1,500-100,000	1.0

For: 2412~2462MHz&5180~5825MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as $0.0515mW / cm^2 < limit 1mW / cm^2$.

6. Summary simultaneous transmission information

Modulation Type	Work Frequency Band	Transmit Antenna		Antenna 1 Antenna 2 Synchronization Transmit
		Antenna 1	Antenna 2	
IEEE 802.11a	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	No
IEEE 802.11b	2.4GHz	Yes	Yes	No
IEEE 802.11g	2.4GHz	Yes	Yes	No
IEEE 802.11n HT20	2.4GHz	Yes	Yes	Yes
IEEE 802.11ax HE20	2.4GHz	Yes	Yes	Yes
IEEE 802.11n HT40	2.4GHz	Yes	Yes	Yes
IEEE 802.11ax HE40	2.4GHz	Yes	Yes	Yes
IEEE 802.11n HT20	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11n HT40	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ac VHT20	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ac VHT40	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ac VHT80	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ax HE20	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ax HE40	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ax HE80	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes

7. Summary simultaneous transmission results

Antenna 1 and Antenna 2 for 2.4G WLAN

Modulation Type	MPE Antenna 1 (mW/cm ²)	MPE Antenna 2 (mW/cm ²)	ΣMPE ratios	Limit	Results
IEEE 802.11b	0.0308	0.0375	/	1.0	PASS
IEEE 802.11g	0.0155	0.0188	/	1.0	PASS
IEEE 802.11n HT20	0.0097	0.0119	0.0216	1.0	PASS
IEEE 802.11n HT40	0.0062	0.0075	0.0137	1.0	PASS
IEEE 802.11ax HE20	0.0062	0.0075	0.0137	1.0	PASS
IEEE 802.11ax HE40	0.0062	0.0075	0.0137	1.0	PASS

Antenna 1 and Antenna 2 for 5G WLAN

Modulation Type	MPE Antenna 1 (mW/cm ²)	MPE Antenna 2 (mW/cm ²)	ΣMPE ratios	Limit	Results
IEEE 802.11a	0.0515	0.0478	/	1.0	PASS
IEEE 802.11n HT20	0.0414	0.0465	0.0879	1.0	PASS
IEEE 802.11n HT40	0.0414	0.0465	0.0879	1.0	PASS
IEEE 802.11ac VHT20	0.0515	0.0476	0.0991	1.0	PASS
IEEE 802.11ac VHT40	0.0515	0.0476	0.0991	1.0	PASS
IEEE 802.11ac VHT80	0.0515	0.0476	0.0991	1.0	PASS
IEEE 802.11ax HE20	0.0515	0.0476	0.0991	1.0	PASS
IEEE 802.11ax HE40	0.0515	0.0476	0.0991	1.0	PASS
IEEE 802.11ax HE80	0.0515	0.0476	0.0991	1.0	PASS

WiFi support Synchronization transmit the

Maximum MPE ratio 2.4G WiFi	Maximum MPE ratio 5G WiFi	ΣMPE ratios	Limit	Results
0.0216	0.0991	0.1207	1	PASS

So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR 2.1091 (b). The RF Exposure Information page from the manual is included here for reference.

Method Of Measurement for IC

1. Applicable Standard

[Radio Standards Specification 102](#), Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus (All Frequency Bands), sets out the requirements and measurement techniques used to evaluate radio frequency (RF) exposure compliance of radio communication apparatus designed to be used within the vicinity of the human body.

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

2. Evaluation Method and Limit

According to RSS-102 §4 Table 4, RF Filed Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
0.003-10 ²¹	83	90	-	Instantaneous*
0.1-10	-	0.73/ <i>f</i>	-	6**
1.1-10	87/ <i>f</i> ^{0.5}	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07/ <i>f</i> ^{0.25}	0.1540/ <i>f</i> ^{0.25}	8.944/ <i>f</i> ^{0.5}	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 <i>f</i> ^{0.3417}	0.008335 <i>f</i> ^{0.3417}	0.02619 <i>f</i> ^{0.6834}	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/ <i>f</i> ^{1.2}
150000-300000	0.158 <i>f</i> ^{0.5}	4.21 x 10 ⁻⁴ <i>f</i> ^{0.5}	6.67 x 10 ⁻⁵ <i>f</i>	616000/ <i>f</i> ^{1.2}

Note: *f* is frequency in MHz.
 *Based on nerve stimulation (NS).
 ** Based on specific absorption rate (SAR).

Frequency Band	<i>f</i> (MHz)	Limit of Power Density (W/m ²)
2.4G WLAN	2412	5.37
5G WLAN	5180	9.05

Note: Limit=0.02619 *f*^{0.6834} (where *f* is in MHz).
 The *f* in the limit is the frequency of the lowest Channel.

3. Calculation Formula

Prediction of power density at the distance of the applicable MPE limit:

$$S = \frac{PG}{4\pi R^2} = \text{Power density (in appropriate units, e.g. W/m}^2\text{)}$$

P=power input to antenna (in appropriate units, e.g. W)

G=power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R=distance to the center of radiation of the antenna (in appropriate units, e.g. m)

Simultaneous transmission MPE Considerations

According to KDB447498: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 .

This means that:

$$\sum \text{ of MPE ratios} \leq 1.0$$

4. Evaluation Results

Standalone MPE Evaluation:

2.4G WiFi MPE Result								
Test Mode	Antenna	Channel	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/ m ²) [S]
11B	Ant1	2412	17.33	17 ± 1	18	3.9025	0.2	0.308
	Ant2	2412	17.17	17 ± 1	18	4.7514	0.2	0.375
	Ant1	2437	17.16	17 ± 1	18	3.9025	0.2	0.308
	Ant2	2437	17.00	17 ± 1	18	4.7514	0.2	0.375
	Ant1	2462	16.88	17 ± 1	18	3.9025	0.2	0.308
	Ant2	2462	16.97	17 ± 1	18	4.7514	0.2	0.375
11G	Ant1	2412	14.49	14 ± 1	15	3.9025	0.2	0.155
	Ant2	2412	14.02	14 ± 1	15	4.7514	0.2	0.188
	Ant1	2437	14.33	14 ± 1	15	3.9025	0.2	0.155
	Ant2	2437	13.88	14 ± 1	15	4.7514	0.2	0.188
	Ant1	2462	14.13	14 ± 1	15	3.9025	0.2	0.155
	Ant2	2462	13.94	14 ± 1	15	4.7514	0.2	0.188
11N20	Ant1	2412	12.59	12 ± 1	13	3.9025	0.2	0.097
	Ant2	2412	12.02	12 ± 1	13	4.7514	0.2	0.119
	Ant1	2437	12.44	12 ± 1	13	3.9025	0.2	0.097
	Ant2	2437	11.90	12 ± 1	13	4.7514	0.2	0.119
	Ant1	2462	12.21	12 ± 1	13	3.9025	0.2	0.097
	Ant2	2462	11.98	12 ± 1	13	4.7514	0.2	0.119
11N40	Ant1	2422	10.28	10 ± 1	11	3.9025	0.2	0.062
	Ant2	2422	9.81	10 ± 1	11	4.7514	0.2	0.075
	Ant1	2437	10.28	10 ± 1	11	3.9025	0.2	0.062
	Ant2	2437	9.69	10 ± 1	11	4.7514	0.2	0.075
	Ant1	2452	10.26	10 ± 1	11	3.9025	0.2	0.062
	Ant2	2452	9.64	10 ± 1	11	4.7514	0.2	0.075
11AX20	Ant1	2412	10.24	10 ± 1	11	3.9025	0.2	0.062
	Ant2	2412	9.72	10 ± 1	11	4.7514	0.2	0.075
	Ant1	2437	10.10	10 ± 1	11	3.9025	0.2	0.062
	Ant2	2437	9.53	10 ± 1	11	4.7514	0.2	0.075
	Ant1	2462	9.97	10 ± 1	11	3.9025	0.2	0.062
	Ant2	2462	9.37	10 ± 1	11	4.7514	0.2	0.075
11AX40	Ant1	2422	10.35	10 ± 1	11	3.9025	0.2	0.062
	Ant2	2422	9.85	10 ± 1	11	4.7514	0.2	0.075
	Ant1	2437	10.32	10 ± 1	11	3.9025	0.2	0.062
	Ant2	2437	9.77	10 ± 1	11	4.7514	0.2	0.075
	Ant1	2452	10.23	10 ± 1	11	3.9025	0.2	0.062
	Ant2	2452	9.72	10 ± 1	11	4.7514	0.2	0.075

Note: RF Output power specifies that Maximum Conducted Peak Output Power.

5G Wi-Fi(U-NII-1) MPE Result								
Test Mode	Antenna	Channel	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/m ²) [S]
11A	Ant1	5180	16.13	16±1	17	5.1312	0.2	0.325
	Ant2	5180	15.30	16±1	17	4.8076	0.2	0.302
	Ant1	5220	16.08	16±1	17	5.1312	0.2	0.325
	Ant2	5220	15.55	16±1	17	4.8076	0.2	0.302
	Ant1	5240	15.92	16±1	17	5.1312	0.2	0.325
	Ant2	5240	15.47	16±1	17	4.8076	0.2	0.302
11N20	Ant1	5180	14.30	14±1	15	5.1312	0.2	0.205
	Ant2	5180	13.09	14±1	15	4.8076	0.2	0.190
	Ant1	5220	14.21	14±1	15	5.1312	0.2	0.205
	Ant2	5220	13.41	14±1	15	4.8076	0.2	0.190
	Ant1	5240	14.08	14±1	15	5.1312	0.2	0.205
	Ant2	5240	13.40	14±1	15	4.8076	0.2	0.190
11N40	Ant1	5190	14.60	14±1	15	5.1312	0.2	0.205
	Ant2	5190	13.54	14±1	15	4.8076	0.2	0.190
	Ant1	5230	14.46	14±1	15	5.1312	0.2	0.205
	Ant2	5230	13.68	14±1	15	4.8076	0.2	0.190
11AC20	Ant1	5180	12.33	12±1	13	5.1312	0.2	0.129
	Ant2	5180	11.67	12±1	13	4.8076	0.2	0.120
	Ant1	5220	12.70	12±1	13	5.1312	0.2	0.129
	Ant2	5220	11.81	12±1	13	4.8076	0.2	0.120
	Ant1	5240	12.41	12±1	13	5.1312	0.2	0.129
	Ant2	5240	11.88	12±1	13	4.8076	0.2	0.120
11AC40	Ant1	5190	12.46	12±1	13	5.1312	0.2	0.129
	Ant2	5190	11.74	12±1	13	4.8076	0.2	0.120
	Ant1	5230	12.50	12±1	13	5.1312	0.2	0.129
	Ant2	5230	11.23	12±1	13	4.8076	0.2	0.120
11AC80	Ant1	5210	12.34	12±1	13	5.1312	0.2	0.129
	Ant2	5210	11.71	12±1	13	4.8076	0.2	0.120
11AX20	Ant1	5180	12.77	13±1	14	5.1312	0.2	0.163
	Ant2	5180	12.08	13±1	14	4.8076	0.2	0.151
	Ant1	5220	13.04	13±1	14	5.1312	0.2	0.163
	Ant2	5220	12.30	13±1	14	4.8076	0.2	0.151
	Ant1	5240	12.80	13±1	14	5.1312	0.2	0.163
	Ant2	5240	12.21	13±1	14	4.8076	0.2	0.151
11AX40	Ant1	5190	12.76	13±1	14	5.1312	0.2	0.163
	Ant2	5190	12.14	13±1	14	4.8076	0.2	0.151
	Ant1	5230	13.14	13±1	14	5.1312	0.2	0.163
	Ant2	5230	12.24	13±1	14	4.8076	0.2	0.151
11AX80	Ant1	5210	12.48	12±1	13	5.1312	0.2	0.129
	Ant2	5210	11.85	12±1	13	4.8076	0.2	0.120

Note: RF Output power specifies that Maximum Conducted Peak Output Power.

5G Wi-Fi(U-NII-2A) MPE Result								
Test Mode	Antenna	Channel	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/m ²) [S]
11A	Ant1	5260	18.34	18±1	19	5.1312	0.2	0.515
	Ant2	5260	18.33	18±1	19	4.7922	0.2	0.476
	Ant1	5300	18.34	18±1	19	5.1312	0.2	0.515
	Ant2	5300	18.48	18±1	19	4.7922	0.2	0.476
	Ant1	5320	18.41	18±1	19	5.1312	0.2	0.515
	Ant2	5320	18.74	18±1	19	4.7922	0.2	0.476
11N20	Ant1	5260	15.89	16±1	17	5.1312	0.2	0.325
	Ant2	5260	15.56	16±1	17	4.7922	0.2	0.301
	Ant1	5300	15.94	16±1	17	5.1312	0.2	0.325
	Ant2	5300	15.75	16±1	17	4.7922	0.2	0.301
	Ant1	5320	16.02	16±1	17	5.1312	0.2	0.325
	Ant2	5320	15.92	16±1	17	4.7922	0.2	0.301
11N40	Ant1	5270	18.47	18±1	19	5.1312	0.2	0.515
	Ant2	5270	18.36	18±1	19	4.7922	0.2	0.476
	Ant1	5310	18.64	18±1	19	5.1312	0.2	0.515
	Ant2	5310	18.65	18±1	19	4.7922	0.2	0.476
11AC20	Ant1	5260	16.58	16±1	17	5.1312	0.2	0.325
	Ant2	5260	16.38	16±1	17	4.7922	0.2	0.301
	Ant1	5300	18.06	18±1	19	5.1312	0.2	0.515
	Ant2	5300	18.32	18±1	19	4.7922	0.2	0.476
	Ant1	5320	18.24	18±1	19	5.1312	0.2	0.515
	Ant2	5320	18.41	18±1	19	4.7922	0.2	0.476
11AC40	Ant1	5270	18.46	18±1	19	5.1312	0.2	0.515
	Ant2	5270	18.35	18±1	19	4.7922	0.2	0.476
	Ant1	5310	18.60	18±1	19	5.1312	0.2	0.515
	Ant2	5310	18.60	18±1	19	4.7922	0.2	0.476
11AC80	Ant1	5290	18.28	18±1	19	5.1312	0.2	0.515
	Ant2	5290	18.21	18±1	19	4.7922	0.2	0.476
11AX20	Ant1	5260	18.25	18±1	19	5.1312	0.2	0.515
	Ant2	5260	18.31	18±1	19	4.7922	0.2	0.476
	Ant1	5300	18.29	18±1	19	5.1312	0.2	0.515
	Ant2	5300	18.46	18±1	19	4.7922	0.2	0.476
	Ant1	5320	18.27	18±1	19	5.1312	0.2	0.515
	Ant2	5320	18.70	18±1	19	4.7922	0.2	0.476
11AX40	Ant1	5270	18.61	18±1	19	5.1312	0.2	0.515
	Ant2	5270	18.51	18±1	19	4.7922	0.2	0.476
	Ant1	5310	18.76	18±1	19	5.1312	0.2	0.515
	Ant2	5310	18.81	18±1	19	4.7922	0.2	0.476
11AX80	Ant1	5290	18.48	18±1	19	5.1312	0.2	0.515
	Ant2	5290	18.45	18±1	19	4.7922	0.2	0.476

Note: RF Output power specifies that Maximum Conducted Peak Output Power.

5G Wi-Fi(U-NII-2C) MPE Result								
Mode	Antenna	Channel	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/m ²) [S]
11A	Ant1	5500	17.61	18±1	19	3.9670	0.2	0.394
	Ant2	5500	18.63	18±1	19	4.0104	0.2	0.398
	Ant1	5580	18.08	18±1	19	3.9670	0.2	0.394
	Ant2	5580	18.42	18±1	19	4.0104	0.2	0.398
	Ant1	5720	18.18	18±1	19	3.9670	0.2	0.394
	Ant2	5720	18.27	18±1	19	4.0104	0.2	0.398
11N20	Ant1	5500	15.22	16±1	17	3.9670	0.2	0.249
	Ant2	5500	15.73	16±1	17	4.0104	0.2	0.251
	Ant1	5580	17.81	18±1	19	3.9670	0.2	0.394
	Ant2	5580	18.29	18±1	19	4.0104	0.2	0.398
	Ant1	5720	17.90	18±1	19	3.9670	0.2	0.394
	Ant2	5720	18.13	18±1	19	4.0104	0.2	0.398
11N40	Ant1	5510	17.76	18±1	19	3.9670	0.2	0.394
	Ant2	5510	18.44	18±1	19	4.0104	0.2	0.398
	Ant1	5550	18.18	18±1	19	3.9670	0.2	0.394
	Ant2	5550	18.26	18±1	19	4.0104	0.2	0.398
	Ant1	5710	18.29	18±1	19	3.9670	0.2	0.394
	Ant2	5710	18.34	18±1	19	4.0104	0.2	0.398
11AC20	Ant1	5500	17.28	18±1	19	3.9670	0.2	0.394
	Ant2	5500	18.30	18±1	19	4.0104	0.2	0.398
	Ant1	5580	17.77	18±1	19	3.9670	0.2	0.394
	Ant2	5580	18.19	18±1	19	4.0104	0.2	0.398
	Ant1	5720	17.95	18±1	19	3.9670	0.2	0.394
	Ant2	5720	18.09	18±1	19	4.0104	0.2	0.398
11AC40	Ant1	5510	17.78	18±1	19	3.9670	0.2	0.394
	Ant2	5510	18.38	18±1	19	4.0104	0.2	0.398
	Ant1	5550	18.10	18±1	19	3.9670	0.2	0.394
	Ant2	5550	18.21	18±1	19	4.0104	0.2	0.398
	Ant1	5710	18.25	18±1	19	3.9670	0.2	0.394
	Ant2	5710	18.32	18±1	19	4.0104	0.2	0.398
11AC80	Ant1	5530	17.78	18±1	19	3.9670	0.2	0.394
	Ant2	5530	18.01	18±1	19	4.0104	0.2	0.398
	Ant1	5690	17.94	18±1	19	3.9670	0.2	0.394
	Ant2	5690	18.30	18±1	19	4.0104	0.2	0.398
11AX20	Ant1	5500	17.45	18±1	19	3.9670	0.2	0.394
	Ant2	5500	18.55	18±1	19	4.0104	0.2	0.398
	Ant1	5580	17.89	18±1	19	3.9670	0.2	0.394
	Ant2	5580	18.38	18±1	19	4.0104	0.2	0.398
	Ant1	5720	18.15	18±1	19	3.9670	0.2	0.394
	Ant2	5720	18.39	18±1	19	4.0104	0.2	0.398
11AX40	Ant1	5510	17.78	18±1	19	3.9670	0.2	0.394
	Ant2	5510	18.57	18±1	19	4.0104	0.2	0.398
	Ant1	5550	18.19	18±1	19	3.9670	0.2	0.394
	Ant2	5550	18.35	18±1	19	4.0104	0.2	0.398

	Ant1	5710	18.35	18±1	19	3.9670	0.2	0.394
	Ant2	5710	18.38	18±1	19	4.0104	0.2	0.398
11AX80	Ant1	5530	17.91	18±1	19	3.9670	0.2	0.394
	Ant2	5530	18.28	18±1	19	4.0104	0.2	0.398
	Ant1	5690	18.09	18±1	19	3.9670	0.2	0.394
	Ant2	5690	18.47	18±1	19	4.0104	0.2	0.398
Note: RF Output power specifies that Maximum Conducted Peak Output Power.								

5G Wi-Fi(U-NII-3) MPE Result								
Test Mode	Antenna	Channel	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/ m ²) [S]
11A	Ant1	5745	18.35	18±1	19	4.1829	0.2	0.414
	Ant2	5745	18.35	18±1	19	4.6852	0.2	0.465
	Ant1	5785	18.19	18±1	19	4.1829	0.2	0.414
	Ant2	5785	17.54	18±1	19	4.6852	0.2	0.465
	Ant1	5825	18.22	18±1	19	4.1829	0.2	0.414
	Ant2	5825	17.21	18±1	19	4.6852	0.2	0.465
11N20	Ant1	5745	18.07	18±1	19	4.1829	0.2	0.414
	Ant2	5745	18.07	18±1	19	4.6852	0.2	0.465
	Ant1	5785	17.99	18±1	19	4.1829	0.2	0.414
	Ant2	5785	17.32	18±1	19	4.6852	0.2	0.465
	Ant1	5825	18.00	18±1	19	4.1829	0.2	0.414
	Ant2	5825	16.91	17±1	18	4.6852	0.2	0.369
11N40	Ant1	5755	18.40	18±1	19	4.1829	0.2	0.414
	Ant2	5755	17.94	18±1	19	4.6852	0.2	0.465
	Ant1	5795	18.39	18±1	19	4.1829	0.2	0.414
	Ant2	5795	17.24	18±1	19	4.6852	0.2	0.465
11AC20	Ant1	5745	18.06	18±1	19	4.1829	0.2	0.414
	Ant2	5745	18.07	18±1	19	4.6852	0.2	0.465
	Ant1	5785	17.97	18±1	19	4.1829	0.2	0.414
	Ant2	5785	17.12	18±1	19	4.6852	0.2	0.465
	Ant1	5825	17.94	18±1	19	4.1829	0.2	0.414
	Ant2	5825	16.87	17±1	18	4.6852	0.2	0.369
11AC40	Ant1	5755	18.35	18±1	19	4.1829	0.2	0.414
	Ant2	5755	17.93	18±1	19	4.6852	0.2	0.465
	Ant1	5795	18.27	18±1	19	4.1829	0.2	0.414
	Ant2	5795	17.08	18±1	19	4.6852	0.2	0.465
11AC80	Ant1	5775	18.24	18±1	19	4.1829	0.2	0.414
	Ant2	5775	17.25	18±1	19	4.6852	0.2	0.465
11AX20	Ant1	5745	18.25	18±1	19	4.1829	0.2	0.414
	Ant2	5745	18.26	18±1	19	4.6852	0.2	0.465
	Ant1	5785	18.10	18±1	19	4.1829	0.2	0.414
	Ant2	5785	17.47	18±1	19	4.6852	0.2	0.465
	Ant1	5825	18.12	18±1	19	4.1829	0.2	0.414
	Ant2	5825	17.16	18±1	19	4.6852	0.2	0.465
11AX40	Ant1	5755	18.44	18±1	19	4.1829	0.2	0.414
	Ant2	5755	17.98	18±1	19	4.6852	0.2	0.465
	Ant1	5795	18.40	18±1	19	4.1829	0.2	0.414
	Ant2	5795	17.28	18±1	19	4.6852	0.2	0.465
11AX80	Ant1	5775	18.37	18±1	19	4.1829	0.2	0.414
	Ant2	5775	17.61	18±1	19	4.6852	0.2	0.465

Note: RF Output power specifies that Maximum Conducted Peak Output Power.

6. Summary simultaneous transmission information

Modulation Type	Work Frequency Band	Transmit Antenna		Antenna 1 Antenna 2 Synchronization Transmit
		Antenna 1	Antenna 2	
IEEE 802.11a	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	No
IEEE 802.11b	2.4GHz	Yes	Yes	No
IEEE 802.11g	2.4GHz	Yes	Yes	No
IEEE 802.11n HT20	2.4GHz	Yes	Yes	Yes
IEEE 802.11ax HE20	2.4GHz	Yes	Yes	Yes
IEEE 802.11n HT40	2.4GHz	Yes	Yes	Yes
IEEE 802.11ax HE40	2.4GHz	Yes	Yes	Yes
IEEE 802.11n HT20	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11n HT40	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ac VHT20	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ac VHT40	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ac VHT80	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ax HE20	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ax HE40	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes
IEEE 802.11ax HE80	U-NII-1/ U-NII-2A U-NII-2C/ U-NII-3	Yes	Yes	Yes

7. Summary simultaneous transmission results

Antenna 1 and Antenna 2 for 2.4G WLAN

Modulation Type	MPE Antenna 1 (W/m ²)	MPE Antenna 2 (W/m ²)	MPE Antenna 1+2 (W/m ²)	Limit (W/m ²)	ΣMPE Ratios	Results
IEEE 802.11b	0.308	0.375	/	5.37	0.0698	PASS
IEEE 802.11g	0.155	0.188	/	5.37	0.0350	PASS
IEEE 802.11n HT20	0.097	0.119	0.216	5.37	0.0402	PASS
IEEE 802.11n HT40	0.062	0.075	0.137	5.37	0.0255	PASS
IEEE 802.11ax HE20	0.062	0.075	0.137	5.37	0.0255	PASS
IEEE 802.11ax HE40	0.062	0.075	0.137	5.37	0.0255	PASS

Antenna 1 and Antenna 2 for 5G WLAN

Modulation Type	MPE Antenna 1 (W/m ²)	MPE Antenna 2 (W/m ²)	MPE Antenna 1+2 (W/m ²)	Limit (W/m ²)	ΣMPE Ratios	Results
IEEE 802.11a	0.515	0.478	/	9.05	0.0569	PASS
IEEE 802.11n HT20	0.414	0.465	0.879	9.05	0.0971	PASS
IEEE 802.11n HT40	0.414	0.465	0.879	9.05	0.0971	PASS
IEEE 802.11ac VHT20	0.515	0.476	0.991	9.05	0.1095	PASS
IEEE 802.11ac VHT40	0.515	0.476	0.991	9.05	0.1095	PASS
IEEE 802.11ac VHT80	0.515	0.476	0.991	9.05	0.1095	PASS
IEEE 802.11ax HE20	0.515	0.476	0.991	9.05	0.1095	PASS
IEEE 802.11ax HE40	0.515	0.476	0.991	9.05	0.1095	PASS
IEEE 802.11ax HE80	0.515	0.476	0.991	9.05	0.1095	PASS

Maximum Simultaneous transmission MPE Ratios for WiFi support

Maximum MPE ratio 2.4GWIFI	Maximum MPE ratio 5GWIFI	ΣMPE ratios	Limit	Results
0.0698	0.1095	0.1793	1	PASS

Remark:

1. Output power including turn-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

Note

For a more detailed features description, please refer to the RF Test Report.

-----END OF REPORT-----