

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

FCC ID: WQ8-DA2211

EUT Specification

EUT	ADAS Calibration Frame
Frequency band (Operating)	☒ WLAN: 2.412GHz ~ 2.462GHz ☒ WLAN: 5.150GHz ~ 5.250GHz ☒ WLAN: 5.725GHz ~ 5.850GHz ☒ Others: 2.402GHz~2.480GHz BT
Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others ____
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm ²) ☒ General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	☐ Single antenna ☒ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power	BT: 11.39dBm (0.0138W) 2.4G WiFi: 17.64dBm (0.0581W) 5.1G WiFi: 15.45dBm (0.0351W) 5.8G WiFi: 16.63dBm (0.0460W)
Antenna gain (Max)	BT: 0.5 dBi 2.4G WiFi: 3.4 dBi & 2.5dBi 5.1G WiFi: 2.0 dBi 5.8G WiFi: 2.0 dBi
Evaluation applied	☒ MPE Evaluation ☐ SAR Evaluation

Limits for Maximum Permissible Exposure(MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = \frac{P_{out} * G}{4 * \pi * R^2}$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in Mw

G= gain of antenna in linear scale

π =3.1416

R= distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

2.4GHz WiFi(Module 1)

ANT 1:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm ²)
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm ²)	
802.11b	2412	12.12	12.12±1	13.12	3.4	0.0089	1
	2437	11.73	11.73±1	12.73	3.4	0.0082	1
	2462	12.03	12.03±1	13.03	3.4	0.0087	1
802.11g	2412	11.44	11.44±1	12.44	3.4	0.0076	1
	2437	11.16	11.16±1	12.16	3.4	0.0072	1
	2462	11.39	11.39±1	12.39	3.4	0.0075	1
802.11n (HT20)	2412	10.01	10.01±1	11.01	3.4	0.0055	1
	2437	9.87	9.87±1	10.87	3.4	0.0053	1
	2462	10.18	10.18±1	11.18	3.4	0.0057	1
802.11n (HT40)	2422	9.90	9.90±1	10.90	3.4	0.0054	1
	2437	9.87	9.87±1	10.87	3.4	0.0053	1
	2452	10.03	10.03±1	11.03	3.4	0.0055	1

ANT 2:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm ²)
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm ²)	
802.11b	2412	10.62	10.62±1	11.62	2.5	0.0051	1
	2437	11.27	11.27±1	12.27	2.5	0.0060	1
	2462	11.51	11.51±1	12.51	2.5	0.0063	1
802.11g	2412	12.90	12.90±1	13.90	2.5	0.0087	1
	2437	12.25	12.25±1	13.25	2.5	0.0075	1
	2462	12.37	12.37±1	13.37	2.5	0.0077	1
802.11n (HT20)	2412	11.57	11.57±1	12.57	2.5	0.0064	1
	2437	11.97	11.97±1	12.97	2.5	0.0070	1
	2462	12.05	12.05±1	13.05	2.5	0.0071	1
802.11n (HT40)	2422	10.87	10.87±1	11.87	2.5	0.0054	1
	2437	11.19	11.19±1	12.19	2.5	0.0059	1
	2452	10.96	10.96±1	11.96	2.5	0.0056	1

ANT 1+ANT 2:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm ²)
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm ²)	
802.11g	2412	15.24	15.24±1	16.24	2.97	0.0166	1
	2437	14.75	14.75±1	15.75	2.97	0.0148	1
	2462	14.92	14.92±1	15.92	2.97	0.0154	1
802.11n (HT20)	2412	13.87	13.87±1	14.87	2.97	0.0121	1
	2437	14.06	14.06±1	15.06	2.97	0.0126	1
	2462	14.23	14.23±1	15.23	2.97	0.0131	1
802.11n (HT40)	2422	13.42	13.42±1	14.42	2.97	0.0109	1
	2437	13.59	13.59±1	14.59	2.97	0.0113	1
	2452	13.53	13.53±1	14.53	2.97	0.0112	1

2.4GHz WiFi(Module 2)

ANT 3:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm ²)
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm ²)	
802.11b	2412	10.62	10.62±1	11.62	2.5	0.0051	1
	2437	10.05	10.05±1	11.05	2.5	0.0045	1
	2462	10.04	10.04±1	11.04	2.5	0.0045	1
802.11g	2412	9.25	9.25±1	10.25	2.5	0.0037	1
	2437	11.31	11.31±1	12.31	2.5	0.0060	1
	2462	11.51	11.51±1	12.51	2.5	0.0063	1
802.11n (HT20)	2412	11.96	11.96±1	12.96	2.5	0.0070	1
	2437	11.76	11.76±1	12.76	2.5	0.0067	1
	2462	11.90	11.90±1	12.90	2.5	0.0069	1
802.11n (HT40)	2422	9.65	9.65±1	10.65	2.5	0.0041	1
	2437	9.52	9.52±1	10.52	2.5	0.0040	1
	2452	10.22	10.22±1	11.22	2.5	0.0047	1

ANT 4:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm ²)
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm ²)	
802.11b	2412	11.77	11.77±1	12.77	2.5	0.0067	1
	2437	11.66	11.66±1	12.66	2.5	0.0065	1
	2462	9.24	9.24±1	10.24	2.5	0.0037	1
802.11g	2412	10.63	10.63±1	11.63	2.5	0.0051	1
	2437	10.62	10.62±1	11.62	2.5	0.0051	1
	2462	11.10	11.10±1	12.10	2.5	0.0057	1
802.11n (HT20)	2412	11.28	11.28±1	12.28	2.5	0.0060	1
	2437	11.28	11.28±1	12.28	2.5	0.0060	1
	2462	11.77	11.77±1	12.77	2.5	0.0067	1
802.11n (HT40)	2422	10.42	10.42±1	11.42	2.5	0.0049	1
	2437	10.43	10.43±1	11.43	2.5	0.0049	1
	2452	10.39	10.39±1	11.39	2.5	0.0049	1

ANT 3+ANT 4:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm ²)
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm ²)	
802.11g	2412	13.00	13.00±1	14.00	2.5	0.0089	1
	2437	13.99	13.99±1	14.99	2.5	0.0112	1
	2462	14.32	14.32±1	15.32	2.5	0.0120	1
802.11n (HT20)	2412	14.64	14.64±1	15.64	2.5	0.0130	1
	2437	14.54	14.54±1	15.54	2.5	0.0127	1
	2462	14.85	14.85±1	15.85	2.5	0.0136	1
802.11n (HT40)	2422	13.06	13.06±1	14.06	2.5	0.0090	1
	2437	13.01	13.01±1	14.01	2.5	0.0089	1
	2452	13.32	13.32±1	14.32	2.5	0.0096	1

MIMO(Module1+Module2):

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm ²)
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm ²)	
802.11g	2412	17.27	17.27±1	18.27	2.74	0.0251	1
	2437	17.40	17.40±1	18.40	2.74	0.0259	1
	2462	17.64	17.64±1	18.64	2.74	0.0273	1
802.11n (HT20)	2412	17.28	17.28±1	18.28	2.74	0.0252	1
	2437	17.32	17.32±1	18.32	2.74	0.0254	1
	2462	17.56	17.56±1	18.56	2.74	0.0268	1
802.11n (HT40)	2422	16.25	16.25±1	17.25	2.74	0.0198	1
	2437	16.32	16.32±1	17.32	2.74	0.0202	1
	2452	16.44	16.44±1	17.44	2.74	0.0207	1

5GHz WiFi(Module 1)**ANT 1:**

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	
802.11a	5180	7.47	7.47 ± 1	8.47	2.0	0.0022	1
	5200	6.34	6.34 ± 1	7.34	2.0	0.0017	1
	5240	4.69	4.69 ± 1	5.69	2.0	0.0012	1
	5745	7.95	7.95 ± 1	8.95	2.0	0.0025	1
	5785	8.10	8.10 ± 1	9.10	2.0	0.0026	1
	5825	7.87	7.87 ± 1	8.87	2.0	0.0024	1
802.11n20	5180	7.31	7.31 ± 1	8.31	2.0	0.0021	1
	5200	7.00	7.00 ± 1	8.00	2.0	0.0020	1
	5240	5.96	5.96 ± 1	6.96	2.0	0.0016	1
	5745	8.82	8.82 ± 1	9.82	2.0	0.0030	1
	5785	8.52	8.52 ± 1	9.52	2.0	0.0028	1
	5825	8.84	8.84 ± 1	9.84	2.0	0.0030	1
802.11ac20	5190	7.56	7.56 ± 1	8.56	2.0	0.0023	1
	5230	6.24	6.24 ± 1	7.24	2.0	0.0017	1
	5755	8.52	8.52 ± 1	9.52	2.0	0.0028	1
	5795	8.93	8.93 ± 1	9.93	2.0	0.0031	1
802.11n40	5180	7.63	7.63 ± 1	8.63	2.0	0.0023	1
	5200	6.89	6.89 ± 1	7.89	2.0	0.0019	1
	5240	5.54	5.54 ± 1	6.54	2.0	0.0014	1
	5745	8.73	8.73 ± 1	9.73	2.0	0.0030	1
	5785	8.77	8.77 ± 1	9.77	2.0	0.0030	1
	5825	8.73	8.73 ± 1	9.73	2.0	0.0030	1
802.11ac40	5190	7.42	7.42 ± 1	8.42	2.0	0.0022	1
	5230	6.13	6.13 ± 1	7.13	2.0	0.0016	1
	5755	10.94	10.94 ± 1	11.94	2.0	0.0049	1
	5795	10.00	10.00 ± 1	11.00	2.0	0.0040	1
802.11ac80	5210	7.22	7.22 ± 1	8.22	2.0	0.0021	1
	5775	9.36	9.36 ± 1	10.36	2.0	0.0034	1

ANT 2:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	(mW/cm2)
802.11a	5180	6.63	6.63 ± 1	7.63	2.0	0.0018	1
	5200	7.12	7.12 ± 1	8.12	2.0	0.0020	1
	5240	5.46	5.46 ± 1	6.46	2.0	0.0014	1
	5745	9.24	9.24 ± 1	10.24	2.0	0.0033	1
	5785	7.76	7.76 ± 1	8.76	2.0	0.0024	1
	5825	7.36	7.36 ± 1	8.36	2.0	0.0022	1
802.11n20	5180	7.70	7.70 ± 1	8.70	2.0	0.0023	1
	5200	7.04	7.04 ± 1	8.04	2.0	0.0020	1
	5240	8.52	8.52 ± 1	9.52	2.0	0.0028	1
	5745	7.78	7.78 ± 1	8.78	2.0	0.0024	1
	5785	7.57	7.57 ± 1	8.57	2.0	0.0023	1
	5825	8.21	8.21 ± 1	9.21	2.0	0.0026	1
802.11ac20	5190	7.85	7.85 ± 1	8.85	2.0	0.0024	1
	5230	8.09	8.09 ± 1	9.09	2.0	0.0026	1
	5755	7.88	7.88 ± 1	8.88	2.0	0.0024	1
	5795	8.38	8.38 ± 1	9.38	2.0	0.0027	1
802.11n40	5180	10.10	10.10 ± 1	11.10	2.0	0.0041	1
	5200	9.22	9.22 ± 1	10.22	2.0	0.0033	1
	5240	9.23	9.23 ± 1	10.23	2.0	0.0033	1
	5745	10.91	10.91 ± 1	11.91	2.0	0.0049	1
	5785	10.50	10.50 ± 1	11.50	2.0	0.0045	1
	5825	10.64	10.64 ± 1	11.64	2.0	0.0046	1
802.11ac40	5190	9.73	9.73 ± 1	10.73	2.0	0.0037	1
	5230	8.40	8.40 ± 1	9.40	2.0	0.0027	1
	5755	10.67	10.67 ± 1	11.67	2.0	0.0046	1
	5795	9.31	9.31 ± 1	10.31	2.0	0.0034	1
802.11ac80	5210	10.99	10.99 ± 1	11.99	2.0	0.0050	1
	5775	9.09	9.09 ± 1	10.09	2.0	0.0032	1

ANT 1+ANT 2:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	(mW/cm2)
802.11n20	5180	10.52	10.52 ± 1	11.52	2.0	0.0045	1
	5200	10.03	10.03 ± 1	11.03	2.0	0.0040	1
	5240	10.44	10.44 ± 1	11.44	2.0	0.0044	1
	5745	11.34	11.34 ± 1	12.34	2.0	0.0054	1
	5785	11.08	11.08 ± 1	12.08	2.0	0.0051	1
	5825	11.55	11.55 ± 1	12.55	2.0	0.0057	1
802.11ac20	5190	10.72	10.72 ± 1	11.72	2.0	0.0047	1
	5230	10.27	10.27 ± 1	11.27	2.0	0.0042	1
	5755	11.22	11.22 ± 1	12.22	2.0	0.0053	1
	5795	11.67	11.67 ± 1	12.67	2.0	0.0058	1
802.11n40	5180	12.05	12.05 ± 1	13.05	2.0	0.0064	1
	5200	11.22	11.22 ± 1	12.22	2.0	0.0053	1
	5240	10.78	10.78 ± 1	11.78	2.0	0.0048	1
	5745	12.97	12.97 ± 1	13.97	2.0	0.0079	1
	5785	12.73	12.73 ± 1	13.73	2.0	0.0074	1
	5825	12.80	12.80 ± 1	13.80	2.0	0.0076	1
802.11ac40	5190	11.74	11.74 ± 1	12.74	2.0	0.0059	1
	5230	10.42	10.42 ± 1	11.42	2.0	0.0044	1
	5755	13.82	13.82 ± 1	14.82	2.0	0.0096	1
	5795	12.68	12.68 ± 1	13.68	2.0	0.0074	1
802.11ac80	5210	12.51	12.51 ± 1	13.51	2.0	0.0071	1
	5775	12.24	12.24 ± 1	13.24	2.0	0.0066	1

5GHz WiFi(Module 2)**ANT 3:**

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	
802.11a	5180	10.89	10.89 ± 1	11.89	2.0	0.0049	1
	5200	10.10	10.10 ± 1	11.10	2.0	0.0041	1
	5240	8.28	8.28 ± 1	9.28	2.0	0.0027	1
	5745	8.60	8.60 ± 1	9.60	2.0	0.0029	1
	5785	8.79	8.79 ± 1	9.79	2.0	0.0030	1
	5825	8.75	8.75 ± 1	9.75	2.0	0.0030	1
802.11n20	5180	10.27	10.27 ± 1	11.27	2.0	0.0042	1
	5200	7.71	7.71 ± 1	8.71	2.0	0.0023	1
	5240	8.38	8.38 ± 1	9.38	2.0	0.0027	1
	5745	10.60	10.60 ± 1	11.60	2.0	0.0046	1
	5785	10.72	10.72 ± 1	11.72	2.0	0.0047	1
	5825	10.68	10.68 ± 1	11.68	2.0	0.0046	1
802.11ac20	5190	10.49	10.49 ± 1	11.49	2.0	0.0044	1
	5230	9.12	9.12 ± 1	10.12	2.0	0.0032	1
	5755	10.82	10.82 ± 1	11.82	2.0	0.0048	1
	5795	10.94	10.94 ± 1	11.94	2.0	0.0049	1
802.11n40	5180	9.09	9.09 ± 1	10.09	2.0	0.0032	1
	5200	8.07	8.07 ± 1	9.07	2.0	0.0025	1
	5240	6.46	6.46 ± 1	7.46	2.0	0.0018	1
	5745	10.68	10.68 ± 1	11.68	2.0	0.0046	1
	5785	10.88	10.88 ± 1	11.88	2.0	0.0049	1
	5825	10.71	10.71 ± 1	11.71	2.0	0.0047	1
802.11ac40	5190	8.58	8.58 ± 1	9.58	2.0	0.0029	1
	5230	7.13	7.13 ± 1	8.13	2.0	0.0020	1
	5755	10.77	10.77 ± 1	11.77	2.0	0.0047	1
	5795	11.12	11.12 ± 1	12.12	2.0	0.0051	1
802.11ac80	5210	8.18	8.18 ± 1	9.18	2.0	0.0026	1
	5775	11.17	11.17 ± 1	12.17	2.0	0.0052	1

ANT 4:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm ²)	(mW/cm ²)
802.11a	5180	10.48	10.48±1	11.48	2.0	0.0044	1
	5200	9.99	9.99±1	10.99	2.0	0.0040	1
	5240	10.11	10.11±1	11.11	2.0	0.0041	1
	5745	9.69	9.69±1	10.69	2.0	0.0037	1
	5785	10.48	10.48±1	11.48	2.0	0.0044	1
	5825	10.29	10.29±1	11.29	2.0	0.0042	1
802.11n20	5180	10.70	10.70±1	11.70	2.0	0.0047	1
	5200	10.05	10.05±1	11.05	2.0	0.0040	1
	5240	10.21	10.21±1	11.21	2.0	0.0042	1
	5745	9.71	9.71±1	10.71	2.0	0.0037	1
	5785	10.37	10.37±1	11.37	2.0	0.0043	1
	5825	10.26	10.26±1	11.26	2.0	0.0042	1
802.11ac20	5190	10.31	10.31±1	11.31	2.0	0.0043	1
	5230	9.96	9.96±1	10.96	2.0	0.0039	1
	5755	9.89	9.89±1	10.89	2.0	0.0039	1
	5795	10.61	10.61±1	11.61	2.0	0.0046	1
802.11n40	5180	10.39	10.39±1	11.39	2.0	0.0043	1
	5200	9.80	9.80±1	10.80	2.0	0.0038	1
	5240	10.01	10.01±1	11.01	2.0	0.0040	1
	5745	9.51	9.51±1	10.51	2.0	0.0035	1
	5785	10.34	10.34±1	11.34	2.0	0.0043	1
	5825	10.17	10.17±1	11.17	2.0	0.0041	1
802.11ac40	5190	10.12	10.12±1	11.12	2.0	0.0041	1
	5230	9.70	9.70±1	10.70	2.0	0.0037	1
	5755	10.02	10.02±1	11.02	2.0	0.0040	1
	5795	10.49	10.49±1	11.49	2.0	0.0044	1
802.11ac80	5210	8.30	8.30±1	9.30	2.0	0.0027	1
	5775	9.08	9.08±1	10.08	2.0	0.0032	1

ANT 3+ANT 4:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	(mW/cm2)
802.11n20	5180	13.50	13.50 ± 1	14.50	2.0	0.0089	1
	5200	12.05	12.05 ± 1	13.05	2.0	0.0064	1
	5240	12.40	12.40 ± 1	13.40	2.0	0.0069	1
	5745	13.19	13.19 ± 1	14.19	2.0	0.0083	1
	5785	13.56	13.56 ± 1	14.56	2.0	0.0090	1
	5825	13.49	13.49 ± 1	14.49	2.0	0.0089	1
802.11ac20	5190	13.41	13.41 ± 1	14.41	2.0	0.0087	1
	5230	12.57	12.57 ± 1	13.57	2.0	0.0072	1
	5755	13.39	13.39 ± 1	14.39	2.0	0.0087	1
	5795	13.79	13.79 ± 1	14.79	2.0	0.0095	1
802.11n40	5180	12.80	12.80 ± 1	13.80	2.0	0.0076	1
	5200	12.03	12.03 ± 1	13.03	2.0	0.0063	1
	5240	11.60	11.60 ± 1	12.60	2.0	0.0057	1
	5745	13.14	13.14 ± 1	14.14	2.0	0.0082	1
	5785	13.63	13.63 ± 1	14.63	2.0	0.0092	1
	5825	13.46	13.46 ± 1	14.46	2.0	0.0088	1
802.11ac40	5190	12.43	12.43 ± 1	13.43	2.0	0.0069	1
	5230	11.61	11.61 ± 1	12.61	2.0	0.0058	1
	5755	13.42	13.42 ± 1	14.42	2.0	0.0087	1
	5795	13.83	13.83 ± 1	14.83	2.0	0.0096	1
802.11ac80	5210	11.25	11.25 ± 1	12.25	2.0	0.0053	1
	5775	13.26	13.26 ± 1	14.26	2.0	0.0084	1

MIMO(Module1+Module2):

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	(mW/cm2)
802.11n20	5180	15.27	15.27 ± 1	16.27	2.0	0.0134	1
	5200	14.17	14.17 ± 1	15.17	2.0	0.0104	1
	5240	14.54	14.54 ± 1	15.54	2.0	0.0113	1
	5745	15.37	15.37 ± 1	16.37	2.0	0.0137	1
	5785	15.50	15.50 ± 1	16.50	2.0	0.0141	1
	5825	15.64	15.64 ± 1	16.64	2.0	0.0145	1
802.11ac20	5190	15.28	15.28 ± 1	16.28	2.0	0.0134	1
	5230	14.58	14.58 ± 1	15.58	2.0	0.0114	1
	5755	15.45	15.45 ± 1	16.45	2.0	0.0139	1
	5795	15.87	15.87 ± 1	16.87	2.0	0.0153	1
802.11n40	5180	15.45	15.45 ± 1	16.45	2.0	0.0139	1
	5200	14.65	14.65 ± 1	15.65	2.0	0.0116	1
	5240	14.22	14.22 ± 1	15.22	2.0	0.0105	1
	5745	16.07	16.07 ± 1	17.07	2.0	0.0161	1
	5785	16.21	16.21 ± 1	17.21	2.0	0.0166	1
	5825	16.15	16.15 ± 1	17.15	2.0	0.0164	1
802.11ac40	5190	15.11	15.11 ± 1	16.11	2.0	0.0129	1
	5230	14.07	14.07 ± 1	15.07	2.0	0.0101	1
	5755	16.63	16.63 ± 1	17.63	2.0	0.0183	1
	5795	16.30	16.30 ± 1	17.30	2.0	0.0169	1
802.11ac80	5210	14.94	14.94 ± 1	15.94	2.0	0.0124	1
	5775	15.79	15.79 ± 1	16.79	2.0	0.0151	1

BT:

Operating Mode	Channel Frequency	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm ²)
	(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm ²)	
BDR&ED R	2402	8.44	8.44±1	9.44	0.5	0.0020	1
	2441	9.01	9.01±1	10.01	0.5	0.0022	1
	2480	8.33	8.33±1	9.33	0.5	0.0019	1
	2402	10.36	10.36±1	11.36	0.5	0.0031	1
	2441	10.98	10.98±1	11.98	0.5	0.0035	1
	2480	10.49	10.49±1	11.49	0.5	0.0031	1
	2402	10.83	10.83±1	11.83	0.5	0.0034	1
	2441	11.39	11.39±1	12.39	0.5	0.0039	1
	2480	10.93	10.93±1	11.93	0.5	0.0035	1

Note: BT and WIFI cannot support simultaneous transmission.