

FCC ID:2AYLN-H076

Maximum Permissible Exposure (MPE)

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)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) 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
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

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

MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 * P * G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Average RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 * P * G}{377 * D^2}$$

From the EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

BT:

Measurement Result

Operation Frequency: 2402MHz~2480MHz

Power density limited: 1mW/ cm²

Antenna Type: External antenna

Antenna gain: 4.46 dBi;

R=20cm

mW=10^(dBm/10)

antenna gain Numeric=10^(dBi/10)

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
		(dBm)		tune-up power		Gain			
				(dBm)	(mW)	(dBi)	Numeric		
2402	DH5	2.24	2.5±1	3.5	2.239	4.46	2.79	0.0012	1
2441		1.62	2.5±1	3.5	2.239	4.46	2.79	0.0012	1
2480		2.83	2.5±1	3.5	2.239	4.46	2.79	0.0012	1
2402	2DH5	4.77	5.5±1	6.5	4.467	4.46	2.79	0.0025	1
2441		5.88	5.5±1	6.5	4.467	4.46	2.79	0.0025	1
2480		6.41	6±1	7	5.012	4.46	2.79	0.0028	1
2402	3DH5	5.46	5.5±1	6.5	4.467	4.46	2.79	0.0025	1
2441		5.17	5.5±1	6.5	4.467	4.46	2.79	0.0025	1
2480		5.67	5.5±1	6.5	4.467	4.46	2.79	0.0025	1

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result (mW/cm2)	Power density (mW/cm2)
		(dBm)		tune-up power		Gain			
				(dBm)	(mW)	(dBi)	Numeric		
2402	BLE 1M	2.56	2.5±1	3.5	2.239	4.46	2.79	0.0012	1
2440		2.32	2.5±1	3.5	2.239	4.46	2.79	0.0012	1
2480		2.99	3±1	4	2.512	4.46	2.79	0.0014	1
2402	BLE 2M	2.72	3±1	4	2.512	4.46	2.79	0.0014	1
2440		2.49	3±1	4	2.512	4.46	2.79	0.0014	1
2480		3.2	3±1	4	2.512	4.46	2.79	0.0014	1

2.4G WIFI:

Operation Frequency: WIFI 802.11b/g/n20: 2412-2462MHz,
802.11n40: 2422-2452MHz
Power density limited: 1mW/ cm²

Antenna Type: External antenna

Antenna gain: Ant 1 : 4.46 dBi; Ant 2 : 4.46 dBi

R=20cm

mW=10^{^(dBi/10)}

Antenna1 gain Numeric=10^{^(dBi/10)}

Antenna2 gain Numeric=10^{^(dBi/10)}

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
			(dBm)		tune-up power		Gain		(mW/cm2)	(mW/cm2)
					(dBm)	(mW)	(dBi)	Numeric		
Ant 1	2412	802.11b	16.2	16±1	17	50.119	4.46	2.79	0.0278	1
Ant 1	2437		15.83	16±1	17	50.119	4.46	2.79	0.0278	1
Ant 1	2462		15.56	16±1	17	50.119	4.46	2.79	0.0278	1
Ant 2	2412	802.11b	15.99	16±1	17	50.119	4.46	2.79	0.0278	1
Ant 2	2437		16.4	16±1	17	50.119	4.46	2.79	0.0278	1
Ant 2	2462		16.57	16±1	17	50.119	4.46	2.79	0.0278	1
Ant 1	2412	802.11g	14.39	14±1	15	31.623	4.46	2.79	0.0176	1
Ant 1	2437		14.19	14±1	15	31.623	4.46	2.79	0.0176	1
Ant 1	2462		14.28	14±1	15	31.623	4.46	2.79	0.0176	1
Ant 2	2412	802.11g	14.2	14±1	15	31.623	4.46	2.79	0.0176	1
Ant 2	2437		14.2	14±1	15	31.623	4.46	2.79	0.0176	1
Ant 2	2462		14.54	14±1	15	31.623	4.46	2.79	0.0176	1
Ant 1	2412	802.11n H20	13.49	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 1	2437		13.38	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 1	2462		12.93	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 2	2412	802.11n H20	13.43	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 2	2437		13.18	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 2	2462		13.57	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 1	2422	802.11n H40	13.82	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 1	2437		13.63	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 1	2452		13.04	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 2	2422	802.11n H40	13.74	13.5±1	14.5	28.184	4.46	2.79	0.0157	1
Ant 2	2437		13.6	13.5±1	14.5	28.184	4.46	2.79	0.0157	1
Ant 2	2452		13.77	13.5±1	14.5	28.184	4.46	2.79	0.0157	1
Ant 1	2412	802.11ax20	13.36	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 1	2437		13.06	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 1	2462		12.78	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 2	2412	802.11ax20	13.36	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 2	2437		13.23	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 2	2462		13.59	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 1	2422	802.11ax40	13.47	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 1	2437		13.54	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 1	2452		13.1	13±1	14	25.119	4.46	2.79	0.0140	1
Ant 2	2422	802.11ax40	13.77	13.5±1	14.5	28.184	4.46	2.79	0.0157	1
Ant 2	2437		13.65	13.5±1	14.5	28.184	4.46	2.79	0.0157	1
Ant 2	2452		13.77	13.5±1	14.5	28.184	4.46	2.79	0.0157	1

5G WIFI:

Operation Frequency: WIFI 802.11a/ac/n(HT20): 5180-5240MHz;5260-5320MHz,5500-5700MHz,5745-5825MHz;WIFI 802.11ac/n(HT40): 5190-5230MHz;5270-5310MHz,5510-5670MHz5755-5795MHz; WIFI 802.11ac80:5210-5210MHz;5290-5290MHz;5530-5610MHz; 5775-5775MHz

Power density limited: 1mW/cm

Antenna Type: External Antenna

antenna gain: Ant 1: 5.52 dBi; Ant 2: 5.52dBi

R=20cm

$mW=10^{(dBm/10)}$

antenna 1gain Numeric= $10^{(dBi/10)}$

antenna 2gain Numeric= $10^{(dBi/10)}$

5.2G

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
			(dBm)		tune-up power		Gain		(mW/cm ²)	(mW/cm ²)
					(dBm)	(mW)	(dBi)	Numeric		
Ant1	5180	802.11a	13.5	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5200		12.43	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5240		12.56	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5180	802.11a	14.15	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5200		14.11	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5240		14.09	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5180	802.11n H20	12.47	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5200		12.39	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5240		12.59	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5180	802.11n H20	14.12	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5200		14.13	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5240		14.1	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5190	802.11n H40	12.52	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5230		12.49	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5190	802.11n H40	14.46	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5230		14.08	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5180	802.11ac20	12.68	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5200		12.27	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5240		12.48	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5180	802.11ac20	14.36	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5200		14.29	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5240		14.01	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5190	802.11ac40	12.57	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5230		12.38	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5190	802.11ac40	14.29	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5230		13.98	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5210	802.11ac80	12.87	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5210	802.11ac80	14.4	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5180	802.11ax20	12.56	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5200		12.55	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5240		12.34	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5180	802.11ax20	14.42	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5200		14.04	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5240		13.85	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5190	802.11ax40	12.57	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5230		12.29	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5190	802.11ax40	14.21	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5230		13.98	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5210	802.11ax80	12.55	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5210	802.11ax80	14.49	14±1	15	31.623	5.52	3.56	0.0224	1

5.3G

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
			(dBm)		tune-up power		Gain			
					(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)
Ant1	5260	802.11a	14.3	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5280		13.84	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5320		13.66	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5260	802.11a	13.26	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5280		12.37	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5320		12.46	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5260	802.11n H20	13.86	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5280		13.61	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5320		13.91	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5260	802.11n H20	12.28	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5280		12.34	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5320		12.54	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5270	802.11n H40	13.81	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5310		13.77	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5270	802.11n H40	12.47	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5310		12.62	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5260	802.11ac20	13.2	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5280		13.46	14±1	15	31.623	5.52	3.56	0.0224	1
Ant1	5320		13.6	14±1	15	31.623	5.52	3.56	0.0224	1
Ant2	5260	802.11ac20	12.42	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5280		12.36	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5320		12.66	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5270	802.11ac40	13.87	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5310		12.49	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5270	802.11ac40	13.3	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant2	5310		12.51	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5290	802.11ac80	13.13	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant2	5290	802.11ac80	12.91	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5260	802.11ax20	12.28	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5280		12.43	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5320		12.45	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5260	802.11ax20	12.42	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5280		12.27	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5320		12.61	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5270	802.11ax40	12.39	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5310		12.57	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5270	802.11ax40	12.58	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5310		12.85	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5290	802.11ax80	12.23	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5290	802.11ax80	12.93	12.5±1	13.5	22.387	5.52	3.56	0.0159	1

5.6G

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
			(dBm)		tune-up power		Gain			
					(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)
Ant1	5500	802.11a	13.27	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5600		12.84	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5700		13.51	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant2	5500	802.11a	12.42	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5600		11.72	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5700		13.05	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5500	802.11n20	13.25	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5600		12.81	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5700		13.75	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant2	5500	802.11n20	11.74	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5600		11.76	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5700		13.02	13±1	14	25.119	5.52	3.56	0.0178	1
Ant1	5510	802.11n40	13.41	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5590		13.18	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5670		13.77	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant2	5510	802.11n40	11.97	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5590		11.98	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5670		13.26	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5500	802.11ac20	13.28	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5600		12.93	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant1	5700		13.59	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant2	5500	802.11ac20	11.96	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5600		11.69	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5700		12.93	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5510	802.11ac40	12.25	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5590		12.13	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5670		12.93	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5510	802.11ac40	12.23	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5590		11.97	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5670		13.42	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5530	802.11ac80	12.28	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5610		11.72	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5530	802.11ac80	11.81	12±1	13	19.953	5.52	3.56	0.0141	1
Ant2	5610		11.68	12±1	13	19.953	5.52	3.56	0.0141	1
Ant1	5500	802.11ax20	12.39	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5600		12.17	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5700		12.75	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5500	802.11ax20	11.89	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5600		11.68	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5700		13.01	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5510	802.11ax40	12.45	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5590		12.14	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5670		12.71	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5510	802.11ax40	12.07	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5590		12.01	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5670		13.34	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5530	802.11ax80	12.32	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant1	5610		11.83	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant2	5530	802.11ax80	11.95	12±1	13	19.953	5.52	3.56	0.0141	1
Ant2	5610		11.73	12±1	13	19.953	5.52	3.56	0.0141	1

5.8G

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
			(dBm)		tune-up power		Gain			
					(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)
Ant 1	5745	802.11a	12.27	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 1	5785		12.84	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 1	5825		13.36	13±1	14	25.119	5.52	3.56	0.0178	1
Ant 2	5745	802.11a	14.31	14±1	15	31.623	5.52	3.56	0.0224	1
Ant 2	5785		13.23	13±1	14	25.119	5.52	3.56	0.0178	1
Ant 2	5825		13.73	14±1	15	31.623	5.52	3.56	0.0224	1
Ant 1	5745	802.11n H20	12.45	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 1	5785		12.82	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 1	5825		13.3	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 2	5745	802.11n H20	13.62	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5785		13.54	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5825		14.08	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 1	5755	802.11n H40	12.37	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 1	5795		12.96	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 2	5755	802.11n H40	13.71	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5795		13.74	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 1	5745	802.11ac20	12.39	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 1	5785		12.66	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 1	5825		13.29	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5745	802.11ac20	13.41	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5785		13.38	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5825		13.93	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 1	5755	802.11ac40	12.48	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 1	5795		13.04	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5755	802.11ac40	13.63	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5795		13.65	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 1	5775	802.11ac80	12.68	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 2	5775	802.11ac80	13.55	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 1	5745	802.11ax20	12.47	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 1	5785		13.01	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 1	5825		13.44	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5745	802.11ax20	13.51	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5785		13.52	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5825		13.97	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 1	5755	802.11ax40	12.18	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 1	5795		13.2	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5755	802.11ax40	13.66	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 2	5795		13.75	13.5±1	14.5	28.184	5.52	3.56	0.0200	1
Ant 1	5775	802.11ax80	12.56	12.5±1	13.5	22.387	5.52	3.56	0.0159	1
Ant 2	5775	802.11ax80	13.62	13.5±1	14.5	28.184	5.52	3.56	0.0200	1

SIMULTANEOUS TRANSMISSIONS

When a number of sources at different frequencies, and/or broadband sources, contribute to the total exposure, it becomes necessary to weigh each contribution relative to the MPE. To comply with the MPE, the fraction of the MPE in terms of E^2 , H^2 (or power density) incurred within each frequency interval should be determined and the sum of all such fractions should not exceed unity. In order to ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^n \frac{S_i}{MPE_i} \leq 1$$

Maximum Multiple sources

Band	Max Conducted	Antenna	Separation distance (cm)	Evaluation result	Power density Limits	Evaluation result	Power density Limits	Verdict
	(dBm)	Gain (dBi)		(mW/cm ²)	(mW/cm ²)	/	/	
2.4G ANT1+ANT2	16.2	4.46	20	0.023159	1	0.048378	1	PASS
	16.57	4.46	20	0.025219	1			
5.2G ANT1+ANT2	13.5	5.52	20	0.015875	1	0.035815	1	PASS
	14.49	5.52	20	0.01994	1			
5.3G ANT1+ANT2	14.3	5.52	20	0.019086	1	0.034247	1	PASS
	13.3	5.52	20	0.015161	1			
5.6G ANT1+ANT2	13.77	5.52	20	0.016894	1	0.032479	1	PASS
	13.42	5.52	20	0.015585	1			
5.8G ANT1+ANT2	13.44	5.52	20	0.015657	1	0.034787	1	PASS
	14.31	5.52	20	0.01913	1			
5G ANT1+5G ANT2+BT	13.5	5.52	20	0.015875	1	0.021034	1	PASS
	14.49	5.52	20	0.008664	1			
	6.41	4.46	20	0.010586	1			

Note:

1. NO simultaneous transmissions are possible for this device of Wi-Fi 2.4G + BT.
2. NO simultaneous transmissions are possible for this device of Wi-Fi 5G + Wi-Fi 2.4G.

Signature:

Date: 2024-12-15



NAME AND TITLE (Please print or type): alex li/Manager

COMPANY (Please print or type): Shenzhen NTEK Testing Technology Co., Ltd./ 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China.