

**Maximum Permissible Exposure Report****1. Product Information**

EUT	:	Wi-Fi Router
Test Model	:	WR3000
Additional Model No.	:	WR3000 Plus, WR1500, TR3000, M3000, RE3000, AP3000, AP3000 Outdoor
Model Declaration	:	PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	:	Input: 12V $\overline{\text{---}}$ 1A For AC Adapter Input: 100-240V~, 50/60Hz, 0.5A MAX Adapter Output: 12.0V $\overline{\text{---}}$ 1.0A, 12.0W
Hardware Version	:	V1
Software Version	:	1.15.3
WIFI(2.4G Band)		
Frequency Range	:	2412MHz~2462MHz
Channel Number	:	11 Channels for 20MHz bandwidth(2412~2462MHz) 7 Channels for 40MHz bandwidth(2422~2452MHz)
Channel Spacing	:	5MHz
Modulation Type	:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	:	Antenna0: External Antenna, 3.61dBi(Max.) Antenna1: External Antenna, 2.35dBi(Max.)
WIFI(5.2G Band)		
Frequency Range	:	5150MHz~5250MHz
Channel Number	:	4 channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 160MHz bandwidth(5250MHz)
Modulation Type	:	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	:	Antenna0: External Antenna, 3.68dBi(Max.) Antenna1: External Antenna, 4.43dBi(Max.) Antenna1: External Antenna, 4.26dBi(Max.)
WIFI(5.3G Band)		
Frequency Range	:	5250-5350MHz
Channel Number	:	4 Channels for 20MHz bandwidth(5260MHz-5320MHz)





	2 channels for 40MHz bandwidth(5270MHz~5310MHz) 1 channels for 80MHz bandwidth(5290MHz) 1 channels for 160MHz bandwidth(5250MHz)
Modulation Type	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	Ant0: External Antenna, 3.91dBi(Max.) Ant1: External Antenna, 4.5dBi(Max.) Ant2: External Antenna, 4.16dBi(Max.)
WIFI(5.5G Band)	
Frequency Range	5470-5725MHz
Channel Number	11 Channels for 20MHz bandwidth(5500MHz-5700MHz) 5 Channels for 40MHz bandwidth(5510MHz-5670MHz) 2 Channels for 80MHz bandwidth(5530MHz, 5610MHz) 1 channels for 160MHz bandwidth(5570MHz)
Modulation Type	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	Ant0: External Antenna, 4.29dBi(Max.) Ant1: External Antenna, 4.87dBi(Max.) Ant2: External Antenna, 4.24dBi(Max.)
WIFI(5.8G Band)	
Frequency Range	: 5725MHz~5850MHz
Channel Number	: 5 channels for 20MHz bandwidth(5745MHz~5825MHz) 2 channels for 40MHz bandwidth(5755MHz~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Ant0: External Antenna, 3.92dBi(Max.) Ant1: External Antenna, 4.57dBi(Max.) Ant2: External Antenna, 4.3dBi(Max.)
Exposure category	: General population/uncontrolled environment
EUT Type	: Production Unit
Device Type	: Mobile Device



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2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for 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 modelled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3.1 Refer Evaluation Method

[ANSI C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.



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3. 2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
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 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Uncontrolled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f ²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

4. MPE Calculation Method

Predication of MPE limit at a given distance

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 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

5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Internal/ External Identification	Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Notes
External	External Antenna	2400MHz ~ 6000MHz	2.4GWIFI: 3.61dBi	WIFI Antenna 0
	External Antenna	2400MHz ~ 6000MHz	2.4GWIFI: 2.35dBi 5.2GWIFI: 3.68dBi 5.3GWIFI: 3.91dBi 5.5GWIFI: 4.29dBi 5.8GWIFI: 3.92dBi	WIFI Antenna 1
	External Antenna	2400MHz ~ 6000MHz	5.2GWIFI: 4.43dBi 5.3GWIFI: 4.50dBi 5.5GWIFI: 4.87dBi 5.8GWIFI: 4.57dBi	WIFI Antenna 2
	External Antenna	2400MHz ~ 6000MHz	5.2GWIFI: 4.26dBi 5.3GWIFI: 4.16dBi 5.5GWIFI: 4.24dBi 5.8GWIFI: 4.3dBi	WIFI Antenna 3





6. Conducted Power

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Ant 0 Max Conducted Power(dBm)	Ant 1 Max Conducted Power(dBm)
11B	1	2412	22.73	21.99
	6	2437	22.88	22.0
	11	2462	22.82	22.04
11G	1	2412	21.58	21.15
	6	2437	21.53	20.97
	11	2462	21.47	21.1
11N20 SISO	1	2412	18.53	18.53
	6	2437	18.47	18.53
	11	2462	20.15	20.13
11N40 SISO	3	2422	17.9	18.23
	6	2437	17.88	18.41
	9	2452	18.01	18.49
11AX20 SISO	1	2412	19.43	18.98
	6	2437	19.38	18.8
	11	2462	19.37	18.85
11AX40 SISO	3	2422	17.38	18.28
	6	2437	17.39	18.38
	9	2452	17.45	18.32

[5.2G WIFI]

Mode	Channel	Frequency (MHz)	Ant 0 Max Conducted Power(dBm)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)
11A	36	5180	17.15	18.84	18.03
	40	5200	17.14	19.09	18.38
	48	5240	16.46	18.4	17.69
11N20 SISO	36	5180	15.39	17.37	15.63
	40	5200	15.69	17.36	15.93
	48	5240	14.86	16.42	15.06
11N40 SISO	38	5190	16.85	17.21	16.51
	46	5230	15.8	16.38	15.77
11AC20 SISO	36	5180	16.64	17.08	16.34
	40	5200	16.91	17.37	16.62
	48	5240	16.11	16.6	15.83
11AC40 SISO	38	5190	16.84	17.42	16.61
	46	5230	16.19	16.63	15.91
11AC80 SISO	42	5210	15.97	16.42	15.48
11AC160 SISO	50	5250	9.68	10.2	10.19
11AX20 SISO	36	5180	15.47	17.07	16.37
	40	5200	17.19	17.36	16.66
	48	5240	16.36	16.88	15.98
11AX40 SISO	38	5190	17.19	17.28	16.9
	46	5230	16.46	16.49	16.31
11AX80 SISO	42	5210	16.27	16.35	15.76
11AX160 SISO	50	5250	10.53	10.63	10.68



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[5.3G WIFI]

Mode	Channel	Frequency (MHz)	Ant 0 Max Conducted Power(dBm)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)
11A	52	5260	18.29	17.9	18.03
	60	5300	18.74	18.83	18.27
	64	5320	18.74	19.36	18.74
11N20 SISO	52	5260	16.43	16.26	16.11
	60	5300	16.97	16.65	16.92
	64	5320	17.27	17.02	17.44
11N40 SISO	54	5270	16.61	16.34	15.81
	62	5310	17.61	17.4	16.83
11AC20 SISO	52	5260	16.69	16.54	16.17
	60	5300	17.35	16.85	16.94
	64	5320	17.84	17.51	17.47
11AC40 SISO	54	5270	16.79	15.82	16.19
	62	5310	17.87	17.02	17.08
11AC80 SISO	58	5290	13.39	16.05	16.13
11AC160 SISO	50	5250	9.68	10.2	10.19
11AX20 SISO	52	5260	17.13	17.31	16.9
	60	5300	17.35	17.57	17.28
	64	5320	17.92	18.16	17.84
11AX40 SISO	54	5270	16.44	16.23	16.86
	62	5310	17.62	17.36	17.92
11AX80 SISO	58	5290	16.64	16.37	16.96
11AX160 SISO	50	5250	10.53	10.63	10.68

[5.5WIFI]

Mode	Channel	Frequency (MHz)	Ant 0 Max Conducted Power(dBm)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)
11A	100	5500	18.73	18.83	18.74
	116	5580	20.24	20.24	20.16
	140	5700	19.52	17.57	17.56
11N20 SISO	100	5500	16.27	16.19	15.65
	116	5580	16.9	15.95	16.39
	140	5700	15.97	16.06	15.91
11N40 SISO	102	5510	16.32	16.29	16.83
	110	5550	16.47	16.53	16.98
	134	5670	15.76	15.81	15.74
11AC20 SISO	100	5500	16.37	15.3	15.84
	116	5580	16.96	16.09	16.56
	140	5700	16.26	15.28	16.32
11AC40 SISO	102	5510	16.36	16.22	16.83
	110	5550	16.61	16.67	17.08
	134	5670	15.95	15.96	16
11AC80 SISO	106	5530	16.02	15.99	15.95
	122	5610	17.21	17.22	17.23
11AC160 SISO	114	5570	9.53	9.44	9.42
11AX20 SISO	100	5500	16.19	15.58	15.45
	116	5580	16.79	16.23	16.06
	140	5700	16.5	15.48	15.35
11AX40 SISO	102	5510	16.75	16.71	15.48
	110	5550	17.01	16.96	15.57



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	134	5670	16.3	16.24	16
11AX80 SISO	106	5530	15.41	16.4	15.24
	122	5610	16.53	17.52	16.5
11AX160 SISO	114	5570	8.64	8.74	8.84

[5.8G WIFI Max Conducted Power]

Mode	Channel	Frequency (MHz)	Ant 0 Max Conducted Power(dBm)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)
11A	149	5745	19.68	19.8	19.94
	157	5785	19.16	19.19	19.3
	165	5825	19.16	19.05	19.22
11N20 SISO	149	5745	17.34	18.26	16.5
	157	5785	17.05	17.8	15.85
	165	5825	16.87	17.77	16.06
11N40 SISO	151	5755	17.36	18.41	18.31
	159	5795	16.46	17.4	17.27
11AC20 SISO	149	5745	17.51	18.43	16.62
	157	5785	17.14	17.99	15.94
	165	5825	17.13	18.04	16.3
11AC40 SISO	151	5755	17.51	18.49	18.45
	159	5795	16.52	17.47	17.41
11AC80 SISO	155	5775	16.32	17.29	17.28
11AX20 SISO	149	5745	17.56	18.76	18.73
	157	5785	17.38	18.31	18.15
	165	5825	17.25	18.28	18.12
11AX40 SISO	151	5755	17.82	18.91	18.76
	159	5795	16.83	17.72	17.64
11AX80 SISO	155	5775	16.76	17.76	17.63

7. Manufacturing Tolerance

[2.4G WIFI Ant0]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	22.0	22.0	22.0
Tolerance \pm (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	21.0	21.0	21.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	18.0	18.0	20.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	17.0	17.0	18.0
Tolerance \pm (dB)	1.0	1.0	1.0



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11AX20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	19.0	19.0	19.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	17.0	17.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0

[2.4G WIFI Ant1]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	21.0	22.0	22.0
Tolerance ±(dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	21.0	20.0	21.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	18.0	18.0	20.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	18.0	18.0	18.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	18.0	18.0	18.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	18.0	18.0	18.0
Tolerance ±(dB)	1.0	1.0	1.0

[2.4G WIFI MIMO Ant0+Ant1]

11N20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	21.0	21.0	23.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	21.0	21.0	21.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	22.0	22.0	22.0
Tolerance ±(dB)	1.0	1.0	1.0



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11AX40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	20.0	20.0	20.0
Tolerance \pm (dB)	1.0	1.0	1.0





[5.2G WIFI Ant0]

11A(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	17.0	17.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.0	15.0	14.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	16.0	15.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	16.0	16.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	16.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 42		
Target (dBm)	15.0		
Tolerance ±(dB)	1.0		
11AC160(Average)			
Channel	Channel 50		
Target (dBm)	9.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.0	17.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	17.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 42		
Target (dBm)	16.0		
Tolerance ±(dB)	1.0		
11AX160(Average)			
Channel	Channel 50		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		



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[5.2G WIFI Ant1]

11A(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	18.0	19.0	18.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	17.0	17.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	17.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	17.0	17.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	17.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 42		
Target (dBm)	16.0		
Tolerance ±(dB)	1.0		
11AC160(Average)			
Channel	Channel 50		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	17.0	17.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	17.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 42		
Target (dBm)	16.0		
Tolerance ±(dB)	1.0		
11AX160(Average)			
Channel	Channel 50		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		



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[5.2G WIFI Ant2]

11A(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	18.0	18.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.0	15.0	15.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	16.0	15.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	16.0	16.0	15.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	16.0	15.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 42		
Target (dBm)	15.0		
Tolerance ±(dB)	1.0		
11AC160(Average)			
Channel	Channel 50		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	16.0	16.0	15.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	16.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 42		
Target (dBm)	16.0		
Tolerance ±(dB)	1.0		
11AX160(Average)			
Channel	Channel 50		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		



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[5.2G WIFI MIMO Ant0+Ant1+Ant2]

11N20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	21.0	21.0	21.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	21.0	21.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	21.0	21.0	21.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	21.0	21.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 42		
Target (dBm)	20.0		
Tolerance ±(dB)	1.0		
11AC160(Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	21.0	21.0	21.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	21.0	21.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 42		
Target (dBm)	16.0		
Tolerance ±(dB)	1.0		
11AX160(Average)			
Channel	Channel 50		
Target (dBm)	21.0		
Tolerance ±(dB)	1.0		



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[5.3G WIFI Ant0]

11A (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	18.0	18.0	18.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	16.0	16.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	16.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AC20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	16.0	17.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	16.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AC80 (Average)			
Channel	Channel 58		
Target (dBm)	13.0		
Tolerance ±(dB)	1.0		
11AC160 (Average)			
Channel	Channel 50		
Target (dBm)	9.0		
Tolerance ±(dB)	1.0		
11AX20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	17.0	17.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	16.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AX80 (Average)			
Channel	Channel 58		
Target (dBm)	17.0		
Tolerance ±(dB)	1.0		
11AX160 (Average)			
Channel	Channel 50		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		



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[5.3G WIFI Ant1]

11A (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	17.0	18.0	19.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	16.0	16.0	17.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	16.0	17.0	
Tolerance \pm (dB)	1.0	1.0	
11AC20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	16.0	16.0	17.0
Tolerance \pm (dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	15.0	17.0	
Tolerance \pm (dB)	1.0	1.0	
11AC80 (Average)			
Channel	Channel 58		
Target (dBm)	16.0		
Tolerance \pm (dB)	1.0		
11AC160 (Average)			
Channel	Channel 50		
Target (dBm)	10.0		
Tolerance \pm (dB)	1.0		
11AX20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	17.0	17.0	18.0
Tolerance \pm (dB)	1.0	1.0	1.0
11AX40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	16.0	17.0	
Tolerance \pm (dB)	1.0	1.0	
11AX80 (Average)			
Channel	Channel 58		
Target (dBm)	16.0		
Tolerance \pm (dB)	1.0		
11AX160 (Average)			
Channel	Channel 50		
Target (dBm)	10.0		
Tolerance \pm (dB)	1.0		



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[5.3G WIFI Ant2]

11A (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	18.0	18.0	18.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	16.0	16.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	15.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AC20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	16.0	16.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	16.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AC80 (Average)			
Channel	Channel 58		
Target (dBm)	16.0		
Tolerance ±(dB)	1.0		
11AC160 (Average)			
Channel	Channel 50		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		
11AX20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	16.0	17.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	16.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AX80 (Average)			
Channel	Channel 58		
Target (dBm)	16.0		
Tolerance ±(dB)	1.0		
11AX160 (Average)			
Channel	Channel 50		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		





[5.3G WIFI MIMO Ant0+Ant1+Ant2]

11N20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	21.0	21.0	22.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	21.0	22.0	
Tolerance ±(dB)	1.0	1.0	
11AC20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	21.0	21.0	22.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	21.0	22.0	
Tolerance ±(dB)	1.0	1.0	
11AC80 (Average)			
Channel	Channel 58		
Target (dBm)	20.0		
Tolerance ±(dB)	1.0		
11AC160 (Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance ±(dB)	1.0		
11AX20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	21.0	22.0	22.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	21.0	22.0	
Tolerance ±(dB)	1.0	1.0	
11AX80 (Average)			
Channel	Channel 58		
Target (dBm)	21.0		
Tolerance ±(dB)	1.0		
11AX160 (Average)			
Channel	Channel 50		
Target (dBm)	15.0		
Tolerance ±(dB)	1.0		



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[5.5G WIFI Ant0]

11A (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	18.0	20.0	19.0
Tolerance ± (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	16.0	16.0	15.0
Tolerance ± (dB)	1.0	1.0	1.0
11N40 Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	16.0	15.0	14.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	16.0	16.0	16.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	16.0	16.0	15.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC80 (Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	16.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AC160 (Average)			
Channel	Channel 114		
Target (dBm)	9.0		
Tolerance ±(dB)	1.0		
11AX20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	16.0	16.0	16.0
Tolerance ± (dB)	1.0	1.0	1.0
11AX40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	16.0	17.0	16.0
Tolerance ± (dB)	1.0	1.0	1.0
11AX80 (Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	15.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AX160 (Average)			
Channel	Channel 114		
Target (dBm)	8.0		
Tolerance ±(dB)	1.0		





[5.5G WIFI Ant1]

11A (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	18.0	20.0	17.0
Tolerance ± (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	16.0	15.0	16.0
Tolerance ± (dB)	1.0	1.0	1.0
11N40 Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	15.0	16.0	15.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	16.0	17.0	16.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	16.0	16.0	15.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC80 (Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	15.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AC160 (Average)			
Channel	Channel 114		
Target (dBm)	9.0		
Tolerance ±(dB)	1.0		
11AX20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	15.0	15.0	15.0
Tolerance ± (dB)	1.0	1.0	1.0
11AX40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	16.0	16.0	16.0
Tolerance ± (dB)	1.0	1.0	1.0
11AX80 (Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	16.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AX160 (Average)			
Channel	Channel 114		
Target (dBm)	8.0		
Tolerance ±(dB)	1.0		



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[5.5G WIFI Ant2]

11A (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	18.0	20.0	17.0
Tolerance ± (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	15.0	16.0	15.0
Tolerance ± (dB)	1.0	1.0	1.0
11N40 Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	16.0	16.0	15.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	15.0	16.0	16.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	16.0	17.0	16.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC80 (Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	15.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AC160 (Average)			
Channel	Channel 114		
Target (dBm)	9.0		
Tolerance ±(dB)	1.0		
11AX20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	15.0	16.0	15.0
Tolerance ± (dB)	1.0	1.0	1.0
11AX40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	15.0	15.0	16.0
Tolerance ± (dB)	1.0	1.0	1.0
11AX80 (Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	15.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AX160 (Average)			
Channel	Channel 114		
Target (dBm)	8.0		
Tolerance ±(dB)	1.0		



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[5.5G MIMO WIFI Ant0+Ant1+Ant2]

11N20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	21.0	21.0	21.0
Tolerance ± (dB)	1.0	1.0	1.0
11N40 Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	21.0	21.0	21.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	21.0	21.0	21.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	21.0	21.0	21.0
Tolerance ± (dB)	1.0	1.0	1.0
11AC80 (Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	21.0	21.0	
Tolerance ±(dB)	1.0	1.0	
11AC160 (Average)			
Channel	Channel 114		
Target (dBm)	14.0		
Tolerance ±(dB)	1.0		
11AX20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	21.0	21.0	21.0
Tolerance ± (dB)	1.0	1.0	1.0
11AX40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	21.0	21.0	21.0
Tolerance ± (dB)	1.0	1.0	1.0
11AX80 (Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	21.0	21.0	
Tolerance ±(dB)	1.0	1.0	
11AX160 (Average)			
Channel	Channel 114		
Target (dBm)	13.0		
Tolerance ±(dB)	1.0		



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[5.8G WIFI Ant0]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	19.0	19.0	19.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	17.0	17.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	17.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	17.0	17.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	17.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 155		
Target (dBm)	16.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	17.0	17.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	17.0	16.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 155		
Target (dBm)	16.0		
Tolerance ±(dB)	1.0		





[5.8G WIFI Ant1]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	19.0	19.0	19.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	18.0	17.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	18.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	18.0	17.0	18.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	18.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 155		
Target (dBm)	18.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	18.0	18.0	18.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	18.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 155		
Target (dBm)	17.0		
Tolerance ±(dB)	1.0		





[5.8G WIFI Ant2]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	19.0	19.0	19.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	16.0	15.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	18.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	16.0	15.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	18.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 155		
Target (dBm)	17.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	18.0	18.0	18.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	18.0	17.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 155		
Target (dBm)	17.0		
Tolerance ±(dB)	1.0		





[5.8G WIFI MIMO Ant0+Ant1+Ant2]

11N20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	22.0	21.0	21.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	22.0	22.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	22.0	22.0	22.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	22.0	22.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 155		
Target (dBm)	21.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	23.0	22.0	22.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	23.0	22.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 155		
Target (dBm)	22.0		
Tolerance ±(dB)	1.0		



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8. Measurement Results

8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

Band/Mode	RF output power		Antenna Gain (dBi)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW			
2.4GWIFI	24	251.1886	6.04	0.2008	1.0000
5GWIFI	24	251.1886	9.04	0.4006	1.0000

Remark:

1. Output power including turn-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.

8.2 Simultaneous Transmission MPE Evaluation

Maximum Simultaneous transmission MPE Ratio for WLAN

The EUT supports Wi-Fi 2.4GHz + Wi-Fi 5GHz simultaneous transmissions
 So the Max Simultaneous Transmission = $0.2008/1(\text{DTS}) + 0.4006/1(\text{NII}) = 0.6014 < 1$

9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

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

