



FCC 47 CFR MPE REPORT

Vesync (US) Corporation

Pedestal Air Circulator Fan

Model Number: LPF-R432S-AUS

Additional Model: LPF-R432S-XXXX (where "X" may be blank, number from 0 to 9 or letter from A to Z)

FCC ID: 2AB22-LPFR432S

Applicant:	Vesync (US) Corporation
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Maximum Permissible Exposure

1. Applicable Standards

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 & KDB 447498 D04 V01 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

1.1. Limits for Maximum Permissible Exposure (MPE)

(a) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-10000			5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-10000			1.0	30

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

1.2. MPE Calculation Method

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

E = Electric Field (V/m)

P = Peak 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

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, $d=0.2\text{m}$, as well as the gain of the used antenna, the RF power density can be obtained

2. Conducted Power Result

Mode	Frequency (MHz)	Output power (dBm)	Output power (mW)
BLE 1M	2402	7.85	6.095
	2440	7.62	5.781
	2480	6.99	5.000
BLE 2M	2402	8.21	6.622
	2440	7.96	6.252
	2480	7.58	5.728
IEEE 802.11b	2412	16.38	43.451
	2437	15.65	36.728
	2462	16.18	41.495
IEEE 802.11g	2412	15.82	38.194
	2437	15.21	33.189
	2462	15.50	35.481
IEEE 802.11n HT20	2412	14.97	31.405
	2437	14.35	27.227
	2462	14.62	28.973
IEEE 802.11n HT40	2422	14.56	28.576
	2437	13.85	24.266
	2452	13.70	23.442

3. Calculated Result and Limit

Mode	Output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm ²)	Limited of Power Density (S) (mW /cm ²)	Test Result
				(dBi)	(Linear)			
2.4G Band								
BLE 1M	7.85	7±1	8	2.7	1.862	0.00234	1	Complies
BLE 2M	8.21	8±1	9	2.7	1.862	0.00294	1	Complies
IEEE 802.11b	16.38	16±1	17	2.7	1.862	0.01857	1	Complies
IEEE 802.11g	15.82	15±1	16	2.7	1.862	0.01475	1	Complies
IEEE 802.11n HT20	14.97	14±1	15	2.7	1.862	0.01171	1	Complies
IEEE 802.11n HT40	14.56	14±1	15	2.7	1.862	0.01171	1	Complies

End of Test Report