



FCC 47 CFR MPE REPORT

Vesync (US) Corporation

Air fryer

Model Number: CAF-DB601S-KUSR

Additional Model: CAF-DB601-XXXX, CAF-DB601S-XXXX (where "X" may be blank, number from 0 to 9 or letter from A to Z)

FCC ID: 2AB22-DB601S

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=0.2m, 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	5.62	3.648
	2440	6.31	4.276
	2480	6.40	4.365
BLE 2M	2402	5.80	3.802
	2440	6.30	4.266
	2480	6.51	4.477
IEEE 802.11b	2412	23.01	199.986
	2437	23.49	223.357
	2462	22.93	196.336
IEEE 802.11g	2412	15.86	38.548
	2437	22.70	186.209
	2462	16.01	39.902
IEEE 802.11n HT20	2412	14.83	30.409
	2437	21.80	151.356
	2462	14.84	30.479
IEEE 802.11n HT40	2422	14.67	29.309
	2437	21.39	137.721
	2452	14.47	27.990

3. Calculated Result and Limit

Mode	Output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm2)	Limited of Power Density (S) (mW /cm2)	Test Result
				(dBi)	(Linear)			
2.4G Band								
BLE 1M	6.40	6±1	7	2.74	1.879	0.00187	1	Complies
BLE 2M	6.51	6±1	7	2.74	1.879	0.00187	1	Complies
IEEE 802.11b	23.49	23±1	24	2.74	1.879	0.09391	1	Complies
IEEE 802.11g	22.70	22±1	23	2.74	1.879	0.07460	1	Complies
IEEE 802.11n HT20	21.80	21±1	22	2.74	1.879	0.05925	1	Complies
IEEE 802.11n HT40	21.39	21±1	22	2.74	1.879	0.05925	1	Complies

End of Test Report