



RF EXPOSURE REPORT

For

KITCHENERY INC.

3814 WEST EUCLID AVE16, TAMPA, Florida, 33629, United States

FCC ID: 2BOGN-KPP-01SS

Report Type: Original Report	Product Name: induction kettle
Report Number: <u>2507R30441E-RF-03</u>	
Report Date: <u>2025-04-30</u>	
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507R30441E-RF-03	R1V1	2025-04-30	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name:	induction kettle
Tested Model:	KPP-01SS
Multiple Model(s):	KPP-01AC
Power Supply:	DC 5V
Maximum Output Power:	Classic BT: 3.27dBm BLE: 4.16dBm 2.4G WIFI: 17.95dBm
Operating Band/Frequency:	Classic BT: 2402-2480 MHz BLE: 2402-2480MHz 2.4G WIFI: 802.11b/g/n20: 2412-2462 MHz; 802.11n40: 2422-2452 MHz
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	Classic BT & BLE & 2.4G WIFI: 3.28dBi
EUT Received Status:	Good

Note:

1. The Maximum Antenna Gain was declared by manufacturer.
2. The difference between tested model and series model is model name and colour, please refer to declaration letter for more detail.
3. The EUT supplied by the applicant was received on 2025-03-17

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to FCC §1.1307(b)(1) & §2.1091, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;
According to §1.1307(b)(1) & §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

S = PG/4πR² = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data

Mode	Frequency (MHz)	Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2462	3.28	2.13	18.0	63.10	20	0.0267	1
BLE	2402-2480	3.28	2.13	4.5	2.82	20	0.0012	1
BT	2402-2480	3.28	2.13	3.5	2.24	20	0.0009	1

Note: 1. The Tune-up output power was declared by the Manufacturer.

Result: The device meets MPE at distance 20cm.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95% confidence interval.
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