

# FCC RF Exposure

**Applicant** : Globe Electric Company Inc.  
**Address** : 150 Oneida, Montreal, Quebec, Canada, H9R 1A8  
**Product Name** : Smart power strip  
**Brand Mark** : GLOBE  
**Model no.** : 50334\*  
**Series model** : N/A  
**FCC ID** : 2AQUQGE50334A  
**Report Number** : BLA-EMC-202507-A0102  
**Date of Receipt** : Jul. 01, 2025  
**Date of Test** : Jul. 01, 2025 to Jul. 11, 2025  
**Test Standard** : 47 CFR Part 15, Part1.1307  
47 CFR Part 15, Part2.1093  
KDB447498D04 General RF Exposure Guidance v01  
**Test Result** : Pass

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## Revise Record

Version No.	Date	Description
01	Jul. 14, 2025	Original

BlueAsia

## 1 General information

### 1.1 General information

Applicant	Globe Electric Company Inc.
Address	150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Manufacturer	Globe Electric Company Inc.
Address	150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Factory	Globe Electric Company Inc.
Address	150 Oneida, Montreal, Quebec, Canada, H9R 1A8

### 1.2 General description of EUT

Product Name	Smart power strip
Model No.	50334*
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type	802.11b: DSSS(CCK/QPSK/BPSK) 802.11g: OFDM(BPSK/QPSK/16QAM/64QAM) 802.11n (HT20 and HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing	5MHz
Number of Channels	802.11b/g/n(HT20):11 802.11n(HT40):7
Antenna Type	PCB antenna
Antenna Gain	-0.74dBi (Provided by customer)
Power supply	AC 120V
Hardware Version	N/A
Software Version	N/A

*Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.*

## 2 RF Exposure Compliance Requirement

### 2.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR condition, listed below, is satisfied.

### 2.2 Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20\text{cm}}$  is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

## 2.3 Result

$$\text{EIRP} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})2/30$$

Where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m

d = measurement distance in meters (m)

Spot =  $(\text{Exd})2/30 \times \text{gt}$

Separation Distance: 20 (cm)

Antenna gain = -0.74dBi

2.4G WIFI worse case: 17.238 dBm @802.11g 2412MHz

EIRP=17.238-0.74=16.498dBm

ERP=16.498-2.15=14.348dBm

because conducted Max Output power >EIRP

So, conducted Max Output power=17.238dBm=52.942mW<3060mW

Comply with RF exposure exemption limit.

----END OF REPORT----

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