

# **RF exposure report**

For

<b>FCC ID: 2AEGH-MTAB-0735KA</b>
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## **FCC §15.247 (i) & §2.1093 – RF EXPOSURE**

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### **Applicable Standard**

According to FCC §2.1093 and §1.1307(b) (1), 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.

According to KDB 447498 D01 General RF Exposure Guidance v05

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The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

### **Result**

According to FCC KDB 447498 D01 General RF Exposure Guidance v05 generic portable criteria

The test was performed with 802.11b:

Frequency (MHz)	PK Output Power (dBm)	PK Output Power (mw)	Target power (mw)	Calculation Value	Threshold Value
2412	8.90	7.8	8+/-1	2.80	3.0
2437	8.62	7.3	8+/-1	2.81	3.0
2462	8.96	7.9	8+/-1	2.82	3.0

The test was performed with 802.11g:

Frequency (MHz)	PK Output Power (dBm)	PK Output Power (mw)	Target power (mw)	Calculation Value	Threshold Value
2412	7.40	5.5	6+/-1	2.17	3.0
2437	7.61	5.8	6+/-1	2.18	3.0
2462	7.58	5.7	6+/-1	2.20	3.0

The test was performed with 802.11n:

Frequency (MHz)	PK Output Power (dBm)	PK Output Power (mw)	Target power (mw)	Calculation Value	Threshold Value
2412	6.83	4.8	5+/-1	1.86	3.0
2437	6.82	4.8	5+/-1	1.87	3.0
2462	6.88	4.9	5+/-1	1.88	3.0

Then SAR evaluation is not required