

RF Exposure Evaluation

FCC ID: 2A3DY-6151DO26

According to KDB 447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a).

EUT Specification

Product Name:	Wireless Controller
Trade Mark:	EVERCADE
Model/Type Reference:	FG-SOLO-CTR-EFIGS
Listed Model(s):	/
Model Differences:	/
Frequency Band (Operating)	BT: 2402MHz ~ 2480MHz BLE: 2402MHz ~ 2480MHz
Device Category	☒ Portable (<5mm separation) ☐ Mobile (>20cm separation) ☐ Fixed (>20cm separation) ☐ Others ____
Antenna Diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Antenna Gain (Max)	2.65dBi

Limit

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}]$
 ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR

Where:

- $f_{(\text{GHz})}$ 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
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

Measurement Result

Mode	Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up Power (dBm)	Result	Limit	Verdict
8-DPSK	2402	2.11	3	0.928	3.0	Pass
BLE 1M	2402	-1.41	-2	0.416	3.0	Pass

Note:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
3. For a more detailed features description, please refer to the RF Test Report.

*****THE END*****