

Apparatus: HECTOR
FCC ID: 2AHFAHECTOR

RF Exposure Considerations for FCC ID: 2AHFAHECTOR

Per FCC KDB 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by (Eq.1) below:

$$SAR = \frac{EIRP(mW)}{d(mm)} \times \sqrt{f(GHz)} \quad (Eq. 1)$$

Where:

- SAR is the calculation for test exclusion threshold;
- EIRP is the maximum power of channel, including tune-up tolerance, in mW;
- d is the minimum test separation distance, in mm;
- f 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.

If result of Eq.1 is less than or equal to the exemption limits below, then corresponding SAR test is not required.

SAR Test Configuration	Exemption limit
1-g SAR	Result of Eq.1 ≤ 3.0
10-g extremity SAR	Result of Eq.1 ≤ 7.5

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 is applied to determine SAR test exclusion.

For our device, the parameters for consideration are as follows:

Channel	Frequency (GHz)	Maximum source-based time averaged conducted output power including tune-up tolerance (mW)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
1	2.402	1.1	5mm	0.33	3.0	7.5	Exempt from SAR
20	2.440	1.0	5mm	0.31	3.0	7.5	Exempt from SAR
40	2.480	1.1	5mm	0.33	3.0	7.5	Exempt from SAR

Conclusion: Therefore the device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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