

Apparatus: Plastron V3 (model: Plastron V3.1)
FCC ID: 2ABZ40004

RF Exposure Considerations for FCC ID: 2ABZ40004

Per FCC KDB 447498 D01 General RF Exposure Guidance v06 (2015)

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.

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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	903.5	24.6mW	35mm (1)	0.67	3.0	7.5	Exempt from SAR
3	914.5	24.0mW	35mm (1)	0.66	3.0	7.5	Exempt from SAR
4	926.5	22.9mW	35mm (1)	0.63	3.0	7.5	Exempt from SAR

(1): Illustration of the distance between antenna and inner surface of the vest.

Inner surface of the vest



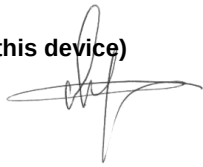
35mm min. distance

Internal view of antenna

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

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