

**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*  $\leq 50$  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 $\leq 3.0$
10-g extremity SAR	Result of Eq.1 $\leq 7.5$

The test exclusions are applicable only when the minimum *test separation distance* is  $\leq 50$  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.

**COORDONNEES**

SMEE  
Rue de Taille – ZI Des Blanchisseries  
38500 VOIRON - France

TEL : 04 76 65 76 50  
FAX : 04 76 66 18 30

SAS au capital de 50 000 € / RC Grenoble B534 796 453 / SIRET 534 796 453 00015 / code APE 7490B / n° TVA : FR 59 534 796 453

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.

**Certified By**  
**Laurent CHAPUS (Agent for this device)**

SMEE – CE Mesures  
Rue de Taille  
ZI des Blanchisseries  
38500 Voiron - France  
[laurent.chapus@smee.fr](mailto:laurent.chapus@smee.fr)



FCC Registration Number: 0020356952 (FRN) / Test Firm Registration Number: 171131

**Applicant for this device:**

**Mr. Xavier POUILLAT**  
Laser Game Equipement  
29, rue du Champ Roman  
38400 Saint Martin d'Hères – France  
[xavier@lasergame-evolution.com](mailto:xavier@lasergame-evolution.com)

Ph: +33 (0)4 76 12 92 66

FRN: 0023432784 / IC Company Number: 11833A