

RF Exposure Evaluation Report

Product : Trail Camera
Trade mark : Browning
Model/Type reference : BTC-PSMX
Serial Number : N/A
Report Number : EED32O81515302
FCC ID : 2ALGTBTC-PSMX
Date of Issue : Oct. 20, 2022
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Prometheus Group LLC
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Prepared by:

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2 Version

Version No.	Date	Description
00	Oct. 20, 2022	Original

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4 General Information

4.1 Client Information

Applicant:	Prometheus Group LLC
Address of Applicant:	PO BOX 130100 BIRMINGHAM, ALABAMA 35213-0100 USA
Manufacturer:	Hooray Innovation Limited
Address of Manufacturer:	Flat1,4/F,Wah Wai Centre,38-42Au pui Wan Street, Fotan, Shatin, Hong Kong
Factory:	Hooray Innovation Limited
Address of Factory:	Flat1,4/F,Wah Wai Centre,38-42Au pui Wan Street, Fotan, Shatin, Hong Kong

4.2 General Description of EUT

Product Name:	Trail Camera
Model No.(EUT):	BTC-PSMX
Trade Mark:	Browning

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz		
Modulation Type:	QPSK, 16QAM		
Antenna Type:	Dipole Antenna		
Antenna Gain:	698-960MHz:2.37 dBi; 1710-2170MHz:4.2 dBi		
Maximum tune up power	LTE Band 2:	23.00 dBm	(199.526 mW)
	LTE Band 4:	23.00 dBm	(199.526 mW)
	LTE Band 5:	24.00 dBm	(251.189 mW)
	LTE Band 12:	21.00 dBm	(125.893 mW)
	LTE Band 13:	22.00 dBm	(158.489 mW)
	LTE Band 25:	23.00 dBm	(199.526 mW)
	LTE Band 26:	23.00 dBm	(199.526 mW)
	LTE Band 26(PART 90S):	23.00 dBm	(199.526 mW)
LTE Band 66:	23.00 dBm	(199.526 mW)	
Power Supply:	8*1.5V AA Batteries		
Sample Received Date:	Sep. 23, 2022		
Sample tested Date:	Sep .24 ,2022 to Oct. 18 2022		

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

The certified module ID is FCC ID: QIPEXS62-W, and report numbers of this certified module are 191019009RFC-1.

This certified module will be integrated into a host that is a hunting camera.

In this report, this certified module is same as the original filling. We have verified the power and test for new radiated emission/exposure evaluation to demonstrate full compliance.

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation

For Stand alone:

Operating mode	Channel	Frequency (MHz)	Max. Tune up Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
LTE B2	18900	1800	23.00	4.20	27.2	25.05	319.890	3060.000	PASS
LTE B4	20175	1732.5	23.00	4.20	27.2	25.05	319.890	3060.000	PASS
LTE B5	20525	836.5	24.00	2.37	/	26.37	433.511	1706.460	PASS
LTE B12	23155	713.5	21.00	2.37	/	23.37	217.270	1443.300	PASS
LTE B13	23230	782	22.00	2.37	/	24.37	273.527	1595.280	PASS
LTE B25	26365	1882.5	23.00	4.20	27.2	25.05	319.890	3060.000	PASS
LTE B26	26915	836.5	23.00	2.37	/	25.37	344.350	1670.760	PASS
LTE B26(PART 90S)	26740	819	23.00	2.37	/	25.37	344.350	1670.760	PASS
LTE B66	132422	1755	23.00	4.20	27.2	25.05	319.890	3060.000	PASS

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***