

RF Exposure Evaluation Report

Product : Apex Stunt Car
Trade mark : N/A
Model/Type reference : 7606478, EP3219
Serial Number : N/A
Report Number : EED32Q80294402
FCC ID : 2BFG7INDG7606478
Date of Issue : Mar. 22, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Elite Production Ltd.

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District, Shenzhen, 518001, Guangdong Province, China**

Prepared by:

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Mar. 22, 2024



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1 Version

Version No.	Date	Description
00	Mar. 22, 2024	Original

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3 General Information

3.1 Client Information

Applicant:	Elite Production Ltd.
Address of Applicant:	Room 9, Floor 13, Block B, Jueshi Building, Jiabing Road Luohu District, Shenzhen, 518001, Guangdong Province, China
Manufacturer:	Elite Production Ltd.
Address of Manufacturer:	Room 9, Floor 13, Block B, Jueshi Building, Jiabing Road Luohu District, Shenzhen, 518001, Guangdong Province, China
Factory:	Shantou Jinying Toys Co., Ltd.
Address of Factory:	Dongqianxi Industrial Zone, Lianxia Town, Chenghai District, Shantou, Guangdong Province, China

3.2 General Description of EUT

Product Name:	Apex Stunt Car
Model No.(EUT):	7606478, EP3219
Test Model No.:	7606478
Trade mark:	N/A

3.3 Product Specification subjective to this standard

Frequency Range:	2447MHz ~2477MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	N/A
Antenna Type:	PCB Antenna
Antenna Gain:	0.12dBi
Power Supply:	Battery DC 3.0V
Sample Received Date:	Mar. 12, 2024
Sample tested Date:	Mar. 12, 2024 to Mar. 16, 2024
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. Model: 7606478, EP3219 Only the model 7606478 was tested. Their electrical circuit design, layout, components used and internal wiring are identical. Only the sales channel is different.	

3.4 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

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure Evaluation

For Remote Control:

Frequency (MHz)	Field strength of the fundamental signal (dBuV/m@3m)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2477	63.44	-33.94	0.0004	≤2.7199	PASS

Note:

- ① EIRP=conducted power+antenna gain;
 - ② ERP=EIRP-2.15;
 - ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
 - ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
 - ⑤ The estimation distance is 0.5cm;
 - ⑥ The test data please refer to the report of EED32Q80294401.
- Only the worst case data was recorded in the report.

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 ***