

RF Exposure Evaluation Report

Report No.: 2405W23590EE

Applicant: Kiddesigns Inc

Address: 1299 Main Street, Rahway New Jersey, United States, 07065-0901

Product Name: XX-207 Walkie talkies

Product Model: BU-207.EXv24

Multiple Models: BU-207.EXv25TG, BU-207.FXv25TG, SA-207.EXv24

Trade Mark: eKids

FCC ID: IAJ202C8C

Standards: 47 CFR §1.1307

KDB 447498 D04 Interim General RF Exposure Guidance v01

Test Date: 2024-10-21

Test Result: Complied

Report Date: 2024-10-21

Reviewed by:

Approved by:

Frank Yin

Frank Yin

Project Engineer

Jacob Kong

Jacob Gong

Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China



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Revision History

Version No.	Issued Date	Description		
00	2024-10-21	Original		

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1 General Information

1.1 Client Information

Applicant:	Kiddesigns Inc	
Address:	1299 Main Street, Rahway New Jersey, United States, 07065-0901	
Manufacturer:	Kiddesigns Inc	
Address: 1299 Main Street, Rahway New Jersey, United States, 07065-0		

1.2 Product Description of EUT

The EUT is XX-207 Walkie talkies that contains FRS radio.

Sample Serial Number	2QQ3-1,2QQ3-3 for RE, 2QQ3-2 for RF conducted test (assigned by WATC)
Sample Received Date	2024-09-03
Sample Status	Good Condition
Frequency Range	467.5625MHz
Maximum ERP	1.80dBm
Modulation Technology	FM
Antenna Gain#	0dBi
Spatial Streams	1TX1RX
Power Supply	DC 3V from battery
Adapter Information	N/A
Modification Sample No Modification by the test lab	

1.3 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

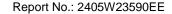
No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: ga@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

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2 RF Exposure Evaluation

2.1 Standard

According to §1.1307(b)(3)(i), For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

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

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$\mathit{ERP}_{20\;cm}\;(\text{mW}) = \begin{cases} 2040f & 0.3\;\text{GHz} \leq f < 1.5\;\text{GHz} \\ \\ 3060 & 1.5\;\text{GHz} \leq f \leq 6\;\text{GHz} \end{cases}$$

d =the separation distance (cm);

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

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Table 1 to § 1.1307(b)(3)(i)(C)—Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R ² .
1.34-30	3,450 R ² /f ² .
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R ² .

According to §1.1307(b)(3)(ii), For multiple RF sources: Multiple RF sources are exempt if:

- (A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
 - (B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$



2.2 Result

Single RF source:

Option B:

Radio	Frequency (MHz)	Distance (mm)	P _{th} (mW)			Result Option B
				dBm	mW	
FRS	467.5625	5	20.86	2.0	1.58	exempt

Note: The Maximum Tune-up ERP was declared by manufacturer.

Result: Complied

---End of Report---