

TEST REPORT

Maximum Permissive Exposure

for

Products Name: Wireless Headphone

Model No.: Toons, Toons Series

FCC ID: 2A6OE-TOONS

Report No.: SST2607E044

Issued Date: 2026-7-3

Issued for

shen zhen shi shan qiu trade ltd

Room 320, Building B1, Mingyou Procurement Center, Yuye Community, Xixiang Street, Bao'an, Shenzhen,
Guangdong, China

Issued by

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1. Basic Introduction

Applicant's name :	shen zhen shi shan qiu trade ltd	
Address	Room 320, Building B1, Mingyou Procurement Center, Yuye Community, Xixiang Street, Bao'an, Shenzhen, Guangdong, China	
Manufacturer's name	KANEN ELECTRONICS COMPANY LTD	
Address	No.2, East Liuhua Road, Dongcheng District, Dongguan, Guangdong, China	
Factory's name	KANEN ELECTRONICS COMPANY LTD	
Address	No.2, East Liuhua Road, Dongcheng District, Dongguan, Guangdong, China	
Products Name :	Wireless Headphone	
Model No. :	Toons, Toons Series	
Trade Mark	Rockpapa	
Rating(s) :	DC 5V or DC 3.7V, 500mAh battery	
Software version..... :	V1.0	
Hardware version	V1.1	
Operation frequency..... :	2402MHz ~ 2480MHz	
Channel numbers	40	
Channel separation	2MHz	
Modulation technology :	GFSK	
Antenna type	PCB Antenna	
Antenna gain	-0.58dBi (declared by applicant)	
Date of sample receipt :	2026-6-18	
Date of Test :	2026-6-18~2026-7-2	
Standard(s)	FCC 47 CFR PART 1.1310 FCC 47 CFR PART 1.1307 KDB 447498 D04	
Tested by (+signature) :	Connor Ma	
Check by (+signature) :	Davis Zhou	
Approved by (+signature) :	Tiger Chen	



2. RF EXPOSURE EVALUATION MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 Introduction

This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC Rules and Regulations and RSS-102 of Industry Canada.

The limit for maximum permissible exposure(MPE), specific in §1.1307of the FCC Rules and KDB 447498 D04 were list in below

The available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula.

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

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

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).
 The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

For multiple RF sources

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

2.2 MPE Calculation

Type	Frequency (MHz)	Antenna Gain (dBi)	Output power (dBm)	Output power (mW)	ERP (dBm)	ERP (mW)	Limit (mW, d=0.5cm)	Ratio (%)	Result
BLE	2402	-0.58	3.59	2.29	0.86	1.22	2.8	81.79	PASS

Note: The available RF source will be Maximum time-averaged power or ERP, whichever is greater.
 $P_{th} = 3060 * (d/20)^x$, where x is $-\log_{10}(60/3060 * \sqrt{F, \text{ in GHz}})$;
eg: $3060 * (0.5/20)^{-\log_{10}(60/3060 * \sqrt{2.402})} = 2.8$

3 Conclusion

The device meets the portable RF exposure limit at a minimum separation distance as specified in §2.1093 of the FCC Rules and Regulations. An appropriate RF exposure compliance statement will be placed in the user's manual.

*****End of report*****