

FCC RF Exposure

Applicant : Shenzhen Pamian Technology Co., Ltd.
Room 2013, Block A, Building 2, zhongliangXiangyun, Ailian
Address : Community, Longcheng Sub-district, Longgang District, Shenzhen
City, Guangdong Province, P.R. China
Product Name : Bluetooth headphones
Brand Mark : N/A
Model : TV003
Series model : TV004, TV005, TV006, TV007, TV008, TV009, TV010, TV011,
TV012, TV013, TV014 TV015, TV016, TV017
FCC ID : 2BMEI-TV003
Report Number : BLA-EMC-202509-A2802
Date of Receipt : Sep. 10, 2025
Date of Test : Sep. 10, 2025 to Sep. 25, 2025
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by: Mark Chen

Review by: Xavier

Approved by:

Issued Date: Oct. 29, 2025



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Revise Record

Version No.	Date	Description
01	Oct. 29, 2025	Original

BlueAsia

1 General information

1.1 General information

Applicant	Shenzhen Pamian Technology Co., Ltd.
Address	Room 2013, Block A, Building 2, zhongliangXiangyun, Ailian Community, Longcheng Sub-district, Longgang District, Shenzhen City, Guangdong Province, P.R. China
Manufacturer	Aikexun Intelligent Acoustic Technology Co., Ltd
Address	No. 15 of Technology Park 1st Road, Shiwan Town, Boluo County, Huizhou City

1.2 General description of EUT

Product Name	Bluetooth headphones
Model No.	TV003
Series model	TV004, TV005, TV006, TV007, TV008, TV009, TV010, TV011, TV012, TV013, TV014 TV015, TV016, TV017
Differences of Series model	Their electrical circuit design, layout, components used and internal wiring are identical, Only the Item number is different.
Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Spacing	1MHz
Number of Channels	79
Antenna Type	Chip antenna
Antenna Gain	1.75dBi (Provided by customer)
Power supply	Battery DC 3.7V
Test Voltage	DC 3.7V
Hardware Version	N/A
Software Version	N/A

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

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

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).

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

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

2.3 Result

$$\text{EIRP} = p_t \times g_t = (E \times d)^{2/30}$$

Where:

p_t = transmitter output power in watts,

g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m)

$$\text{Spot} = (E \times d)^{2/30} \times g_t$$

Separation distance = 0.5cm

Ant gain = 1.75dBi

For BT Classic(8DPSK): Worst case

Max Output power = 0.599dBm @ 2402MHz

$$\text{EIRP} = 0.599\text{dBm} + 1.75\text{dBi} = 2.349\text{dBm}$$

$$\text{So, ERP} = 2.349\text{dBm} - 2.15 = 0.199\text{dBm} = 1.047\text{mW} < 2.788\text{mW}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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