

FCC RF Exposure

Applicant : Shenzhen SonoCycle Technology Co., Ltd.
1400-1402, Building B, Gongcun Xincheng Commercial center,
Address : No.31, Sanlian Chuangye Road, Longhua District, Shenzhen
City, Guangdong Province
Product Name : Wireless Headphones
Brand Mark : SOUNDPEATS
Model : Air6 Pro
Series model : JewelClip, Air6 Deluxe HS, MoonSeelp Dot, Luno Dot, VexClip,
SnapClip, Free3 classic
FCC ID : 2BVLM-YX002
Report Number : BLA-EMC-202606-A15-05
Date of Receipt : Jun. 03, 2026
Date of Test : Jun. 03, 2026 to Jun. 15, 2026
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

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Revise Record

Version No.	Date	Description
01	Jun. 16, 2026	Original

1 General information

1.1 General information

Applicant	Shenzhen SonoCycle Technology Co., Ltd.
Address	1400-1402, Building B, Gongcun Xincheng Commercial center, No.31, Sanlian Chuangye Road, Longhua District, Shenzhen City, Guangdong Province
Manufacturer	Shenzhen SonoCycle Technology Co., Ltd.
Address	1400-1402, Building B, Gongcun Xincheng Commercial center, No.31, Sanlian Chuangye Road, Longhua District, Shenzhen City, Guangdong Province
Factory	Dongguan SiliSound Technology Co., Ltd.
Address	Rm.601, No.26 Xinyang Road, Tangxia Town, Dongguan City, Guangdong Prov.

1.2 General description of EUT

Product name	Wireless Headphones
Model no.	Air6 Pro
Series Model No.	JewelClip, Air6 Deluxe HS, MoonSeelp Dot, Luno Dot, VexClip, SnapClip, Free3 classic
Differences of Series model	The above models have the same Circuit diagram, PCB layout and all electrical construction. The difference lies only model name and color.
Operation Frequency	2402MHz-2480MHz
Modulation Type	BLE: GFSK BT: GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of Channels	BLE: 40 BT: 79
Antenna Type	FPC antenna
Product Type	Portable
Antenna Gain	L ear: 0.34dBi, R ear: 0.81dBi (Provided by customer)
Power supply	Battery DC 3.85V
Test Voltage	DC 3.85V

Hardware Version	N/A
Software Version	N/A

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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

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

Where:

pt = transmitter output power in watts,

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

E = electric field strength in V/m,

d = measurement distance in meters (m)

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

Separation distance= 0.5cm

Antenna Gain:

L ear: 0.34dBi, R ear: 0.81dBi

For L ear BLE 2M(Worst) :

Max Output power = **0.272dBm @ 2480MHz**

$$\text{EIRP} = 0.272\text{dBm} + 0.34\text{dBi} = 0.612\text{dBm}$$

$$\text{So, ERP} = 0.612 - 2.15 = -1.538\text{dBm} = 0.702\text{mW} < 2.717 \text{ mW}$$

For L ear BT (Worst) :8DPSK

Max Output power = **2.097dBm @ 2480MHz**

$$\text{EIRP} = 2.097\text{dBm} + 0.34\text{dBi} = 2.437\text{dBm}$$

$$\text{So, ERP} = 2.437 - 2.15 = 0.287\text{dBm} = 1.068\text{mW} < 2.717 \text{ mW}$$

For R ear BLE 2M(Worst) :

Max Output power = **2.495dBm @ 2480MHz**

$$\text{EIRP} = 2.495\text{dBm} + 0.81\text{dBi} = 3.305\text{dBm}$$

$$\text{So, ERP} = 3.305 - 2.15 = 1.155\text{dBm} = 1.305\text{mW} < 2.717 \text{ mW}$$

For R ear BT (Worst) :8DPSK

Max Output power = **0.752dBm @ 2480MHz**

$$\text{EIRP} = 0.752\text{dBm} + 0.81\text{dBi} = 1.562\text{dBm}$$

$$\text{So, ERP} = 1.562 - 2.15 = -0.588\text{dBm} = 0.873\text{mW} < 2.717 \text{ mW}$$

it's deemed to fulfil the RF exposure requirement.

----END OF REPORT----

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