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FCC RF Exposure

Applicant	:	Shenzhen Soundsoul Information Technology Co.,Ltd
Address	:	Room 1308-1309, Building B, Huihai Square, Chuangye Road, Longhua District, Shenzhen, Guangdong, China
Product Name	:	Wireless Headphones
Brand Mark	:	SOUNDPEATS
Model	:	Air6 HS
Series model	:	C30, Pace, Pace Pro, Air6 ANC, Air6 Pro, POP Clip2, POP Clip2 Pro, Clip1 Pro, TrueStream X1, Aura Nebula, PearlClip3 Pro, PearlClip3
FCC ID	:	2AFTU-DD039
Report Number	:	BLA-EMC-202508-A9205
Date of Receipt	:	Aug. 21, 2025
Date of Test	:	Aug. 21, 2025 to Sep. 01, 2025
Test Standard	:	47 CFR Part 15, Part1.1307 47 CFR Part 15, Part2.1093 KDB447498D04 General RF Exposure Guidance v01
Test Result	:	Pass

Compiled by: Mark Chen **Review by:** Xavier **Approved by:** Blue Zheng

Issued Date: Sep. 02, 2025

BlueAsia of Technical Services(Shenzhen) Co.,Ltd

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Revise Record

Version No.	Date	Description
01	Sep. 02, 2025	Original

1 General information

1.1 General information

Applicant	Shenzhen Soundsoul Information Technology Co.,Ltd
Address	Room 1308-1309, Building B, Huihai Square, Chuangye Road, Longhua District, Shenzhen, Guangdong, China
Manufacturer	Shenzhen Soundsoul Information Technology Co.,Ltd
Address	Room 1308-1309, Building B, Huihai Square, Chuangye Road, Longhua District, Shenzhen, Guangdong, China
Factory	Guangzhou U&I Technology Company Limited
Address	NO.8,4/F,15th Creative Industrial Park,No.644,Shibei Road, Dashi, Panyu District.Guangzhou City,Guangdong Province, P. R. China

1.2 General description of EUT

Product name	Wireless Headphones
Model no.	Air6 HS
Series Model No.	C30, Pace, Pace Pro, Air6 ANC, Air6 Pro, POP Clip2, POP Clip2 Pro, Clip1 Pro, TrueStream X1, Aura Nebula, PearlClip3 Pro, PearlClip3
Differences of Series model	Their electrical circuit design layout, components used and internal wiring are identical, only the model name and color are different.
Operation Frequency:	BT/BLE:2402MHz-2480MHz
Modulation Type:	BLE:GFSK BT:GFSK, π/4DQPSK, 8DPSK
Number of Channels:	BLE:40 BT:79
Antenna Type:	FPC Antenna
Product Type:	Portable
Antenna Gain:	L ear: -0.66dBi(Provided by customer) R ear: -2.44dBi(Provided by customer)
Power supply:	Battery DC 3.85V
Test Voltage:	DC 3.85V
Hardware Version	N/A
Software Version	N/A

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

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

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

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

2.3 Result

EIRP = pt x gt = (E X 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)

Spot = (EXd)2/30 x gt

Separation distance= 0.5cm

L ear: -0.66dBi

R ear: -2.44dBi

For BLE 2M(Worst) L ear:

Max Output power = 0.402dBm @ 2480MHz

EIRP = 0.402dBm-0.66dBi= -0.258dBm, because conducted Max Output power >EIRP

So, ERP = 0.402-2.15= -1.748dBm=0.669mW< 2.717 mW

For BT Classic(GFSK) L ear:

Max Output power = 0.371dBm @ 2480MHz

EIRP = 0.371dBm-0.66dBi= -0.289dBm, because conducted Max Output power >EIRP

So, ERP = 0.371-2.15= -1.779dBm=0.664mW< 2.717 mW

For BLE 2M(Worst) R ear:

Max Output power =0.469dBm @ 2442MHz

EIRP = 0.469dBm-2.44dBi= -1.971dBm, because conducted Max Output power >EIRP

So, ERP = 0.469-2.15= -1.681dBm=0.679mW< 2.751 mW

For BT Classic(GFSK) R ear:

Max Output power =0.232dBm @ 2480MHz

EIRP = 0.232dBm-2.44dBi= -2.208dBm, because conducted Max Output power >EIRP

So, ERP = 0.232-2.15= -1.918dBm=0.643mW< 2.717 mW

Comply with RF exposure exemption limit.

----END OF REPORT----