

FCC RF Exposure

Applicant : SOUNDLAB TECHNOLOGY CO.,LTD

Floor 6-7, 1-3, Building#2, No. 6-2, Shangxia Middle

Address : Road, Shangxia Area, Dongjiang Science Park,

Zhongkai High-tech Zone, Huizhou

Product Name Soundbar

Brand Mark miroir

Model : SL3100

Series model : SL3100(37)

FCC ID : 2ATKO-SL3100

: BLA-EMC-202502-A3602 **Report Number**

Date of Receipt : Feb. 17, 2025

: Feb. 17, 2025 to Feb. 20, 2025 **Date of Test**

47 CFR Part 15, Part1.1307

: 47 CFR Part 15, Part2.1093 **Test Standard**

KDB447498D04 General RF Exposure Guidance v01

Test Result : Pass

Compiled by: Mark han Review by: Sweets

Issued Date:

Feb. 20, 2025

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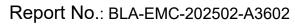






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Revise Record

Version No.	Date	Description
01	Feb. 20, 2025	Original





1 General information

1.1 General information

Applicant	SOUNDLAB TECHNOLOGY CO.,LTD
Address	Floor 6-7, 1-3, Building#2, No. 6-2, Shangxia Middle Road, Shangxia Area,Dongjiang Science Park,Zhongkai High-tech Zone, Huizhou
Manufacturer	SOUNDLAB TECHNOLOGY CO.,LTD
Address	Floor 6-7, 1-3, Building#2, No. 6-2, Shangxia Middle Road, Shangxia Area,Dongjiang Science Park,Zhongkai High-tech Zone, Huizhou
Factory	SOUNDLAB TECHNOLOGY CO.,LTD
Address	Floor 6-7, 1-3, Building#2, No. 6-2, Shangxia Middle Road, Shangxia Area,Dongjiang Science Park,Zhongkai High-tech Zone, Huizhou

1.2 General description of EUT

Product name	Soundbar					
Model no.	SL3100	SL3100				
Series model	SL3100(3	SL3100(37)				
Differences of Series model	appearan	The above-mentioned prototype is exactly the same in terms of appearance, PCB layout, internal structure and components, except for the difference in the agent for sales.				
Operation Frequency	2402MHz-2480MHz					
Modulation Type	GFSK, π/4DQPSK, 8DPSK					
Number of Channels	79					
Antenna Type	PCB Antenna					
Antenna Gain	1.51dBi (Provided by customer)					
Power supply	Adapter	MODEL NO.: CW72E2402500SC INPUT: 100-240V, 50/60Hz 1.8A MAX OUTPUT: 24.0V, 2500mA				
Test Voltage	AC 120V					
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

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(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_{20cm} is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
Frequency (MHz)	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

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

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2.3 Result

EIRP = pt x gt = $(E \times d)2/30$

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 = $(EXd)2/30 \times gt$

Separation distance= 20cm

Ant gain = 1.51dBi

For BT Classic(8DPSK):

Max Output power =-3.779dBm @ 2402MHz

EIRP = -3.779dBm + 1.51dBi = -2.269dBm,

So, ERP = -2.269dBm-2.15=-4.419dBm=0.361mW< 3060 mW

Comply with RF exposure exemption limit.

----END OF REPORT----

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