

RF Exposure Evaluation Report				
Report Reference No	MTEB25010093-H			
FCC ID :	2BNHC-SOUNDBAR			
Compiled by	1.1.			
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Date of issue	Jan.10,2025			
Representative Laboratory Name.:	Shenzhen Most Technology Service Co., Ltd.			
Address:	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.			
Applicant's name	Studio Evolution Ukraine, LLC			
Address:	Office 2, Polskiy Descent 11,Odesa 65026, Ukraine			
Test specification/ Standard:	-			
	KDB447498D01 General RF Exposure Guidance v06			
	Shenzhen Most Technology Service Co., Ltd.			
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Test item description	ACOUSTIC AUDIO SYSTEM EVOSOUND BAR			
Trade Mark	STUDIO EVOLUTION			
Model/Type reference:	SE1200SB3-SE08SWP			
Listed Models	SE1200SB-SE08SWP, SE1200SB2-SE08SWP,			
	SE1200SB4-SE08SWP, SE1200SB5-SE08SWP			
Modulation Type:	: GFSK, π/4DQPSK			
Operation Frequency:	: 2402MHz to 2480MHz			
Hardware Version	V5.0			
Software Version	V5.0			
Rating	100V-120V 50/60Hz			
Result	PASS			

TEST REPORT

Equipment under Test	:	ACOUSTIC AUDIO SYSTEM EVOSOUND BAR
Model /Type	:	SE1200SB3-SE08SWP
Listed Models	:	SE1200SB-SE08SWP, SE1200SB2-SE08SWP, SE1200SB4-SE08SWP, SE1200SB5-SE08SWP
Remark		Only the model "SE1200SB3-SE08SWP" was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name and Appearance is different.
Applicant	:	Studio Evolution Ukraine, LLC
Address	:	Office 2, Polskiy Descent 11,Odesa 65026, Ukraine
Manufacturer	:	Xiamen Partyhouse Electronics Co.,Ltd.
Address	:	Floor 3, Building 4, No.510, Haiming Road, Haixiang Avenue, Xiang'an District, Xiamen, China

Test Result: PASS	
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. <u>Revision History</u>

Revision	Issue Date	Revisions	Revised By
00	2025.01.10	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

2.1.2 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Lim	its for Occupational	Controlled Exposure	es	
0.3–3.0	614	1.63	*(100)	10
3.0–30	1842/f	4.89/f	*(900/f2)	
30–300	61.4	0.163	1.0	1.9
300–1500			f/300	
1500–100,000			5	
(B) Limits	for General Populati	on/Uncontrolled Exp	osure	
0.3–1.34	614	1.63	*(100)	3

0.3–1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500		******	f/1500	30
1500-100,000			1.0	30

F= Frequency in MHz

Friis Formula Friis Formula Friis transmission formula: Pd = $(Pout^G)/(4^Pi R 2)$ Where Pd = power density in mW/cm2 Pout = output power to antenna in mW G = gain of antenna in linear scale Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.1.3 EUT RF Exposure

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GFSK				
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	
Lowest(2402 MHz)	1.015	1.015 ± 1	2.015	
Middle(2440MHz)	1.080	1.080 ± 1	2.08	
Highest(2480MHz)	1.776	1.776±1	2.776	

BLE

	Worst case: GFSK					
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Highest(2480MHz)	2.776	1.89	3	0.00075	1.0	Pass

Note: 1) Refer to report MTEB25010093-R1 for EUT test Max Conducted average Output Power value. Note: 2) Pd = $(Pout^*G)/(4^* Pi * R2)=(1.89^*2)/(4^*3.1416^*20^2)=0.00075$

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GFSK				
Test channel	Peak Output Power (JDm) Tune up tolerance	- I line lin folerance	Maximum tune-up Power	
i est chamier	(dBm)	(dBm)	(dBm)	
Lowest(2402MHz)	0.727	0.727 ± 1	1.727	
Middle(2441MHz)	0.971	0.971 ± 1	1.971	
Highest(2480MHz)	0.752	0.752 ± 1	1.752	

π /4DQPSK				
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	
Lowest(2402MHz)	1.630	1.630 ± 1	2.63	
Middle(2441MHz)	1.881	1.881 ± 1	2.881	
Highest(2480MHz)	1.609	1.609 ± 1	2.609	

Worst case: $\pi/4DQPSK$						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Middle(2441MHz)	2.881	1.94	3	0.00077	1.0	Pass

Note: 1) Refer to report MTEB25010093-R for EUT test Max Conducted average Output Power value. Note: 2) Pd = (Pout*G)/(4* Pi * R2)=(1.94*2)/(4*3.1416*202)=0.00077 Note: 3)EUT's Bluetooth module is more than 20cm away from the human body.

.....THE END OF REPORT.....