

FCC RF Exposure

Applicant : Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.

NO.5 Building, No.139, Zhouxing Street, Dongchong

Address : Town, Nansha District, Guangzhou City, Guangdong

Province, China

Product Name 2.1 Soundbar System/Subwoofer

Brand Mark VIZIO

Model SV210X-0805

Series model : N/A

FCC ID : ESX-SV210XW

Report Number : BLA-EMC-202501-A7102

Date of Receipt : Jan. 15, 2025

: Jan. 15, 2025 to Apr. 24, 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 then Review by: Lavier

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

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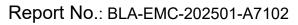






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Revise Record

Version No.	Date	Description
01	May 12, 2025	Original



1 General information

1.1 General information

Applicant	Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.					
Address	NO.5 Building, No.139, Zhouxing Street, Dongchong Town, Nansha District, Guangzhou City, Guangdong Province, China					
Manufacturer	Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.					
Address	NO.5 Building, No.139, Zhouxing Street, Dongchong Town, Nansha District, Guangzhou City, Guangdong Province, China					
Factory 1	Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.					
Address	NO.5 Building, No.139, Zhouxing Street, Dongchong Town, Nansha District, Guangzhou City, Guangdong Province, China					
Factory 2	Exzone Precision Engineering Sdn. Bhd.					
Address	Lot 50, Jalan 7, Kawasan Perindustrian Bakar Arang, 08000 Sungai Petani, Kedah, Malaysia					
Factory 3	VTREK VIETNAM COMPANY LIMITED					
Address	Factory No. NX2 (B7), Nam Tai Thai Binh International Company Limited, Lot B2, Lien Ha Thai Industrial Park (Green iP-I), Diem Dien Town, Thai Thuy district, Thai Binh province, Vietnam					

1.2 General description of EUT

Product name	2.1 Soundbar System				
Model no.	SV210X-0805				
Operation Frequency:	2402MHz-2480MHz				
Modulation Type:	GFSK, π/4DQPSK, 8DPSK				
Number of Channels:	79				
Antenna Type:	PCB Antenna				
Antenna Gain:	3.47dBi (Provided by customer)				
Power supply:	Input:100-240V, 50/60Hz, 60W				
Test Voltage:	AC 120V				
Hardware Version	N/A				





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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)

					Di	stance	(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 = 3.47dBi

For BT Classic(8DPSK):

Max Output power =4.898dBm @ 2480MHz

EIRP = 4.898dBm+3.47dBi=8.368dBm,

So, ERP = 8.368dBm-2.15=6.218dBm=4.186mW< 3060 mW

Comply with RF exposure exemption limit.

----END OF REPORT----

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