

TEST REPORT

Product Name : AMP
Model Number : STEREO BOX E
FCC ID : 2BHR2-SBEMAIAE

Prepared for : Audio Tuning Vertriebs GmbH
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1. TEST RESULT CERTIFICATION

Applicant : Audio Tuning Vertriebs GmbH
 Address : Margaretenstrasse 98, 1050 Vienna, Austria
 Manufacturer : DongguanYunNuo Electronic Technology Co., Ltd
 Address : No.9, Street 4, Xiangmang Xilu South, Qingxi Town, Dongguan, GD, China
 Factory : DongguanYunNuo Electronic Technology Co., Ltd
 Address : No.9, Street 4, Xiangmang Xilu South, Qingxi Town, Dongguan, GD, China
 EUT : AMP
 Model Name : STEREO BOX E
 Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 1.1310: §1.1307(b)	PASS

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC 1.1310: §1.1307(b).

The test results of this report relate only to the tested sample identified in this report


Date of Test : Jun 27, 2024 to Aug 01, 2024

Prepared by : *Warren Deng*

Prepared by : Warren Deng /Editor

Reviewer : *Tim Dong*

Reviewer : Tim Dong /Supervisor

Approve & Authorized Signer : 

Approve & Authorized Signer : Sam Lv / Manager



Modified History

Version	Report No.	Revision Date	Summary
	EDG2406270018E00202R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	AMP
Model Number:	STEREO BOX E
Sample:	1#
Data Rate:	1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	79 channels
Transmit Power Max:	7.57 dBm(0.005715 W)
Antenna Gain:	2.72 dBi
Power supply:	DC 20V from adapter Adapter:Model:DZ072ADL200300F INPUT:100-240V~50/60Hz 1.5A OUTPUT:20.0V/3.0A 60.0W
Evaluation applied:	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation

3. Test Requirement

RF EXPOSURE EVALUATION

According to FCC 1.1310: 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 §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} = output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π = 3.1416

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

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

4. Measurement Result

Antenna gain: 2.72 dBi

Mode	Frequency (MHz)	Output Power (dBm)	E.I.R.P (dBm)	Target Power W/tolerance (dBm)	Max tune up power tolerance (dBm)	Max tune up power tolerance (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Verdict
GFSK	2402	5.95	10.59	10±1	11	12.59	0.0025	1	PASS
	2441	5.77	10.41	10±1	11	12.59	0.0025	1	PASS
	2480	4.93	9.57	9±1	10	10.00	0.0020	1	PASS
pi/4-DQ PSK	2402	7.09	11.73	12±1	13	19.95	0.0040	1	PASS
	2441	6.98	11.62	12±1	13	19.95	0.0040	1	PASS
	2480	6.11	10.75	11±1	12	15.85	0.0032	1	PASS
8-DPSK	2402	7.57	12.21	12±1	13	19.95	0.0040	1	PASS
	2441	7.44	12.08	12±1	13	19.95	0.0040	1	PASS
	2480	6.68	11.32	11±1	12	15.85	0.0032	1	PASS

*** End of Report ***