

Report No.: TW2407347E

Applicant: Eastern Times Technology Co.,Ltd

Product: GAMING COMPUTER SPEAKER

Model No.: GS814, 8085

Trademark: REDRAGON

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 &FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Term long

Terry Tang

Manager

Dated: October 19, 2024

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,

Guangdong, China.

1.3 Description of EUT

Product: GAMING COMPUTER SPEAKER
Manufacturer: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,

Dongguan City, Guangdong, China.

Trademark: REDRAGON

Additional Trademark: N/A

Model Number: GS814

Additional Model Name 8085

Hardware Version: V0.1

Software Version: V0.1

Serial No.: RDGS81423072500417

Rating: DC12V, 2A Power Supply: Model: CW1202000EU

Input: 220-240V~, 50Hz, 0.8A MAX; Output: DC12V, 2A, 24W

Modulation Type: GFSK, Л/4DQPSK, 8DPSK

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain -0.58dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration 2024-07-31 to 2024-10-19

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty = 6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

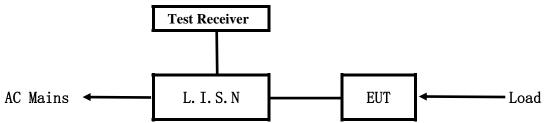
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

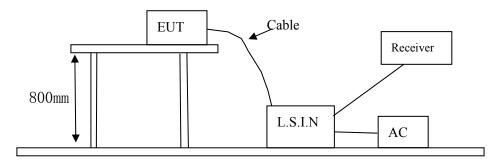


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
GAMING COMPUTER	Eastern Times	CS914 9095	TUVGS814
SPEAKER	Technology Co.,Ltd	GS814, 8085	10 (05814

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB μ V)			
(MHz)	Quasi-peak Level	Average Level		
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
$5.00 \sim 30.00$	60.0	50.0		

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

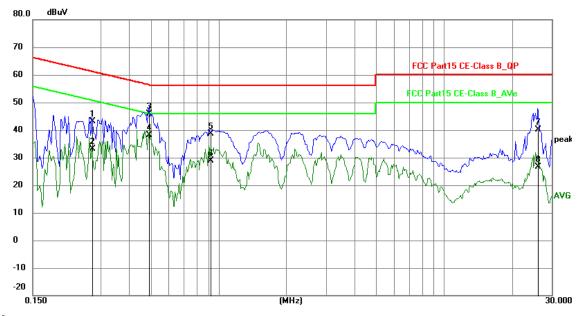
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2748	33.41	9.75	43.16	60.97	-17.81	QP	Р
2	0.2748	23.33	9.75	33.08	50.97	-17.89	AVG	Р
3	0.4932	36.23	9.77	46.00	56.11	-10.11	QP	J
4	0.4932	28.37	9.77	38.14	46.11	-7.97	AVG	Р
5	0.9222	28.87	9.79	38.66	56.00	-17.34	QP	J
6	0.9222	19.15	9.79	28.94	46.00	-17.06	AVG	Р
7	26.1153	29.16	11.06	40.22	60.00	-19.78	QP	Р
8	26.1153	15.60	11.06	26.66	50.00	-23.34	AVG	Р

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

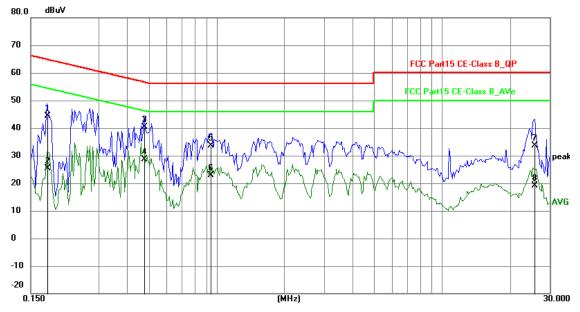
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1773	34.58	9.77	44.35	64.61	-20.26	QP	Р
2	0.1773	15.54	9.77	25.31	54.61	-29.30	AVG	Р
3	0.4776	30.50	9.77	40.27	56.38	-16.11	Q Q	Р
4	0.4776	18.92	9.77	28.69	46.38	-17.69	AVG	Р
5	0.9417	23.82	9.79	33.61	56.00	-22.39	QP	Р
6	0.9417	13.06	9.79	22.85	46.00	-23.15	AVG	Р
7	25.7253	22.64	11.03	33.67	60.00	-26.33	QP	Р
8	25.7253	8.09	11.03	19.12	50.00	-30.88	AVG	Р

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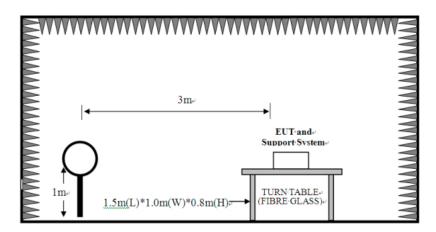


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



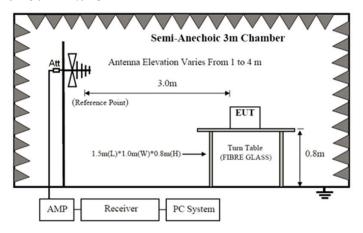
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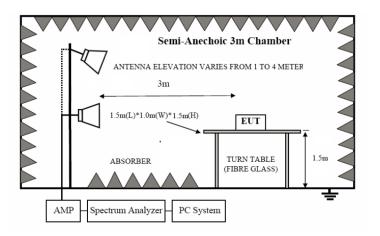
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT
 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundame	ental (3m)	Field Strength of Harmonics (3m)			
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)	

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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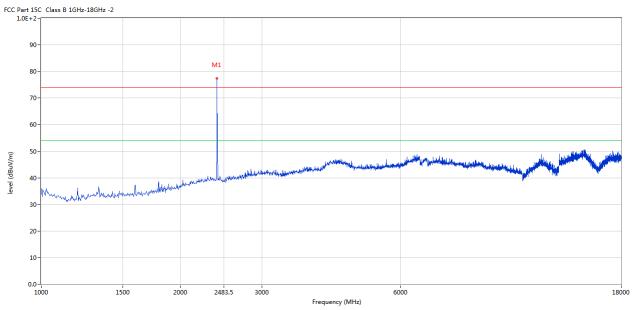


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

Horizontal



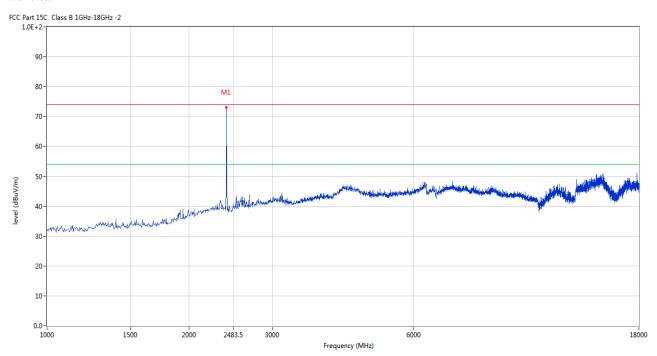
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	77.48	-3.57	114.0	-36.52	Peak	285.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	73.10	-3.57	114.0	-40.90	Peak	113.00	100	Vertical	Pass

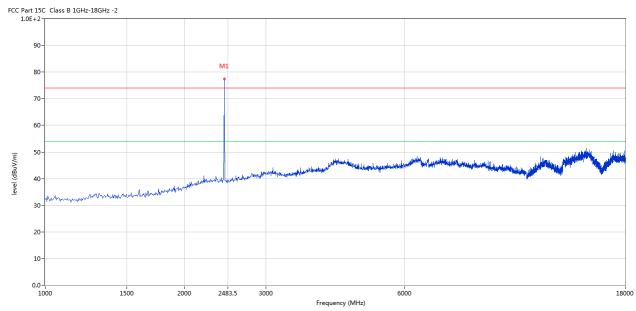
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



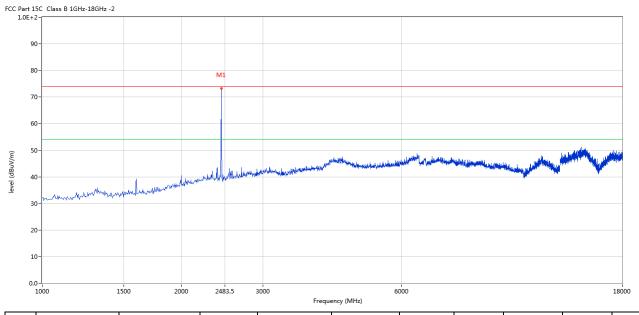
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	77.38	-3.57	114.0	-36.62	Peak	166.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	73.33	-3.57	114.0	-40.67	Peak	50.00	100	Vertical	Pass

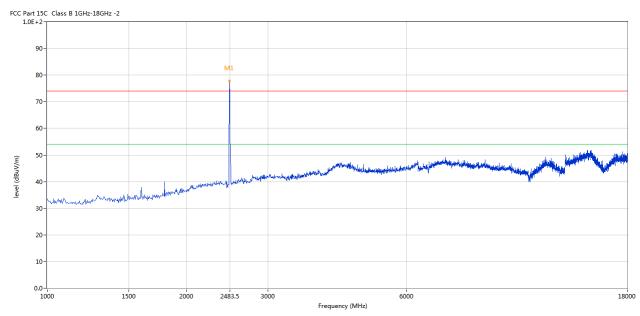
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



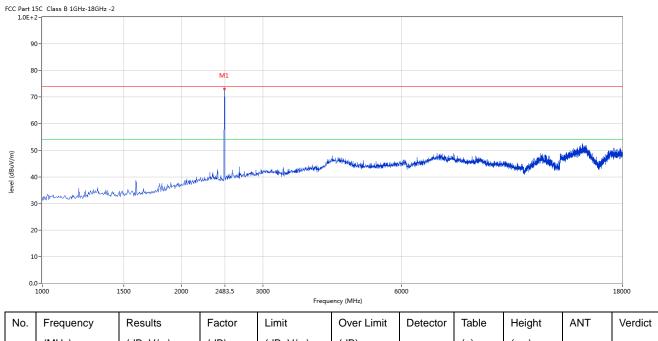
N	lo.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2480	77.84	-3.57	114.0	-36.16	Peak	132.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	73.15	-3.57	114.0	-40.85	Peak	25.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (3) Margin=Emission-Limits
- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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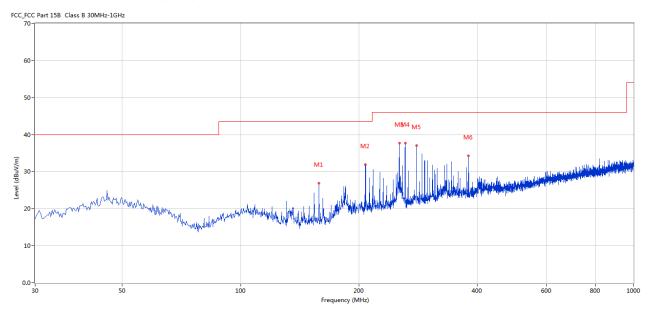


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	158.493	26.88	-16.48	43.5	16.62	Peak	97.00	100	Horizontal	Pass
2	207.951	31.86	-13.69	43.5	11.64	Peak	260.00	100	Horizontal	Pass
3	253.529	37.68	-12.11	46.0	8.32	Peak	268.00	100	Horizontal	Pass
4	262.499	37.76	-11.88	46.0	8.24	Peak	74.00	100	Horizontal	Pass
5	280.682	37.01	-11.50	46.0	8.99	Peak	240.00	100	Horizontal	Pass
6	380.325	34.29	-9.18	46.0	11.71	Peak	64.00	100	Horizontal	Pass

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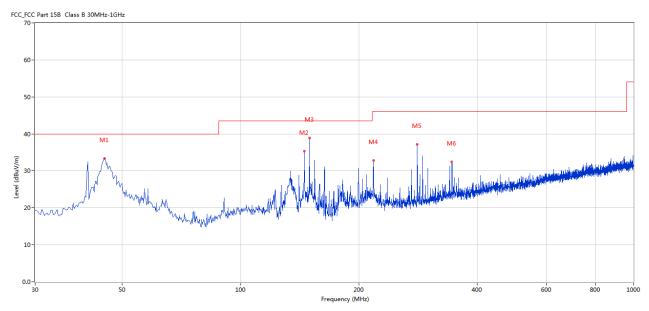


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	45.031	33.32	-11.41	40.0	6.68	Peak	163.00	100	Vertical	Pass
2	145.401	35.30	-17.29	43.5	8.20	Peak	334.00	100	Vertical	Pass
3	149.765	38.86	-17.05	43.5	4.64	Peak	140.00	100	Vertical	Pass
4	217.891	32.78	-13.42	46.0	13.22	Peak	171.00	100	Vertical	Pass
5	281.410	37.16	-11.50	46.0	8.84	Peak	119.00	100	Vertical	Pass
6	345.171	32.42	-9.51	46.0	13.58	Peak	247.00	100	Vertical	Pass

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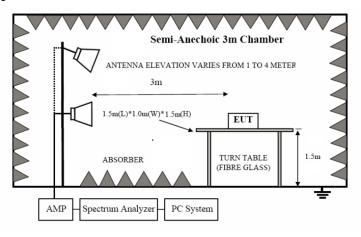


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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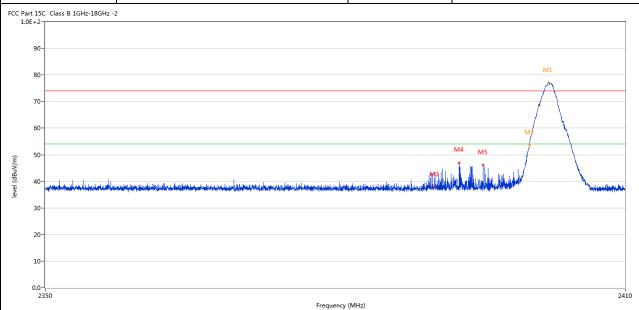
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7.6 Test Result

Product:	GAMING COMPUTER SPEAKER	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.917	77.07	-3.57	74.0	3.07	Peak	162.00	100	Horizontal	N/A
2	2400.012	53.65	-3.57	74.0	-20.35	Peak	280.00	100	Horizontal	Pass
3	2390.085	37.83	-3.53	74.0	-36.17	Peak	229.00	100	Horizontal	Pass
4	2392.679	46.89	-3.54	74.0	-27.11	Peak	173.00	100	Horizontal	Pass
5	2395.154	46.10	-3.55	74.0	-27.90	Peak	182.00	100	Horizontal	Pass

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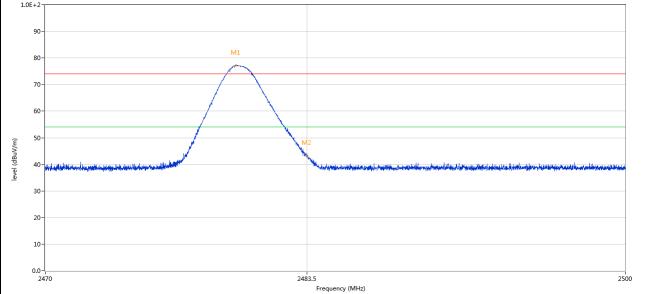
]	Product:	GAMING COMPUTER SPEAKER			R Det	tector		Vert	ical	
	Mode	Kee	eping Trans	smitting	Test '	Voltage	DC12V			
Te	mperature		24 deg. (C,	Hur	nidity		56%	RH	
Te	est Result:		Pass						-	
1.0E+. 99 88	0-	-2					M4 M5	M6 M2	11	
3:	0- 	angundikkaphokkapangulan adalah	مامور المستخدرا بالماداء	ideidikkalahdilleren dilatarak	de de presente de présente	a. bet angle lid a sell di di di di			white	a tudo de la lor
4 4 3 2 1 1 0 .	0-0-0-0-0-2350			Freq	quency (MHz)					2410
4 3 2 1 1 0.	o- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	Results	Factor	Freq	quency (MHz) Over Limit	Detector	Table	Height	ANT	2410
4 3 2 1 0. No.	o- 0- 0- 0- 0- 0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	quency (MHz) Over Limit (dB)	Detector	(0)	(cm)	ANT	2410 Verdi
4 3 3 2 1 1 0.	Frequency (MHz)	Results (dBuV/m) 72.88	Factor (dB) -3.57	Limit (dBuV/m) 74.0	over Limit (dB)	Detector Peak	(o) 82.00	(cm)	ANT Vertical	verdi Pass
4 3 2 1. 0. No.	Frequency (MHz) 2402.247 2400.042	Results (dBuV/m) 72.88 50.44	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) -1.12 -23.56	Detector Peak Peak	(o) 82.00 273.00	(cm) 100 100	ANT Vertical Vertical	verdi Pass Pass
4 3 2 1 1 0. No.	Frequency (MHz) 2402.247 2400.042 2390.040	Results (dBuV/m) 72.88 50.44 40.26	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 74.0	Over Limit (dB) -1.12 -23.56 -33.74	Detector Peak Peak Peak	(o) 82.00 273.00 339.00	(cm) 100 100	ANT Vertical Vertical Vertical	Pass Pass Pass
3 2 2 1. 0 No. No. 1 2 3 3 4 4	Frequency (MHz) 2402.247 2400.042 2390.040 2391.615	Results (dBuV/m) 72.88 50.44 40.26 50.47	Factor (dB) -3.57 -3.57 -3.53 -3.54	Freq Limit (dBuV/m) 74.0 74.0 74.0 74.0	Over Limit (dB) -1.12 -23.56 -33.74 -23.53	Detector Peak Peak Peak Peak	(o) 82.00 273.00 339.00 87.00	(cm) 100 100 100	ANT Vertical Vertical Vertical Vertical	Pass Pass Pass Pass
4 3 2 1 1 0. No.	Frequency (MHz) 2402.247 2400.042 2390.040	Results (dBuV/m) 72.88 50.44 40.26	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 74.0	Over Limit (dB) -1.12 -23.56 -33.74	Detector Peak Peak Peak	(o) 82.00 273.00 339.00	(cm) 100 100	ANT Vertical Vertical Vertical	Verdi Pass Pass Pass

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Product:	GAMING COMPUTER SPEAKER	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
Part 15C Class B 1GHz-18GHz 1.0E+2-	2 M1		



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2479.830	77.18	-3.57	74.0	3.18	Peak	108.00	100	Horizontal	N/A
2	2483.500	43.19	-3.57	74.0	-30.81	Peak	118.71	100	Horizontal	Pass

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]	Product:	GAMINO	G COMPUT	ΓER SPEAKER	R De	etector		Vei	rtical	
	Mode	Ke	eping Tran	nsmitting	Test	Voltage		DC	C12V	
Te	mperature		24 deg.	C,	Hu	midity		56%	% RH	
Te	est Result:		Pass							
C Part 1 1.0E+	L5C Class B 1GHz-18GHz -	-2								
9	10-									
8	30-		M1							
7	70-		MI							
	60-									
6										
	00-									
	10-	ndlyakifirandifikhare bilkillisterder		M2	Marine Marine State of the Stat	a watel Libbat Water publisher.	malahijika jita dalapana da,	a de la colonia		whithin
5		المعادل المعادلة المتأون المعادلة المتأون المتاركة المتأونة المتأو		M2	department of the state of the	والمترابط والمتراط والمتراط والمتراط	makili plazi plazi deli promodos			464144
5	10-	المعادر والمراجعة والمراجع		M2	Marie Ma	, week Libberteless, which is	ordelyte je je komody		البراه واستان والمفاطئة المستال والمتالية	ndurliktiv
. 5		عهارابر فياجره مدوالك فرريع فالمرافع فهما		M2	والمرابع والمروضوية	, vidi Mekalen jelen	n delperjendelpende	atherical stability light conservation	naguna hititishika etanga bilah	udos (XII)
. 5 . 4 . 3 . 2		અમે પ્રત્યાના કર્યું છે હતા કર્યા હોઇ અને			degrade, de la productiva	, watel Alaka dayah da a	ordeljske je bolovnoski	aziketa, di di dikiliket keta eta eta eta eta eta eta eta eta eta	الدائد وسياجه والمتأولة المسيدين	niedoktár
. 5 . 4 . 3 . 2		المالينية المرافعة ا		2483.5	ency (MHz)	, week her de de gewenne de	or helpte y to help marke	azinden industrial politica en espec		2500
3 3 2 2 0.		Results	Factor	2483.5 Freque		Detector	Table	Height	ANT	2500
3 3 2 2 0.	0		Factor (dB)	2483.5 Freque	ency (MHz)					2500
5 4 3 2	00- 00- 00- 00- 00- 00- 00- 00- 00- 00-	Results		2483.5 Freque Limit (dBuV/m)	ency (MHz) Over Limit		Table	Height		,

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

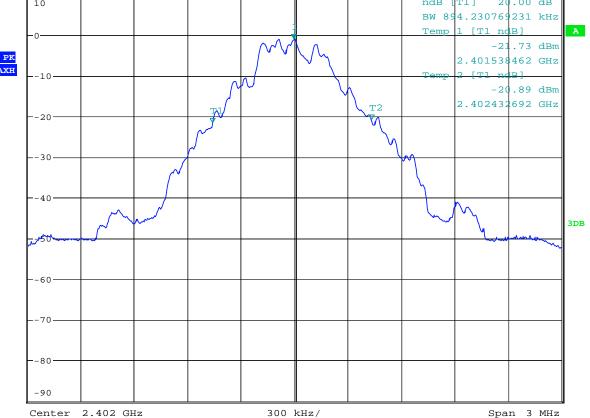
This product has a PCB antenna with gain -0.58dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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9.0 20dB Bandwidth	Measurement			
GFSK				
Product:	GAMING COMPUTER SPE	AKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting		Test Voltage	DC12V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
20dB Bandwidth	894kHz			
(R)		* RBW 30]	11021	cer 1 [T1] -1.23 dBm
Ref 10 dBm	*Att 20 dB	SWT 15 r		2.401995192 GHz
10			ndB BW { Temp	[T1] 20.00 dB 394.230769231 kHz 5 1 [T1 ndB] A
1 PK MAXH		M	Temy	-21.73 dBm 2.401538462 GHz 2 [T1 ndB]
	μ _Μ	\		-20.89 dBm



Date: 4.SEP.2024 10:41:38

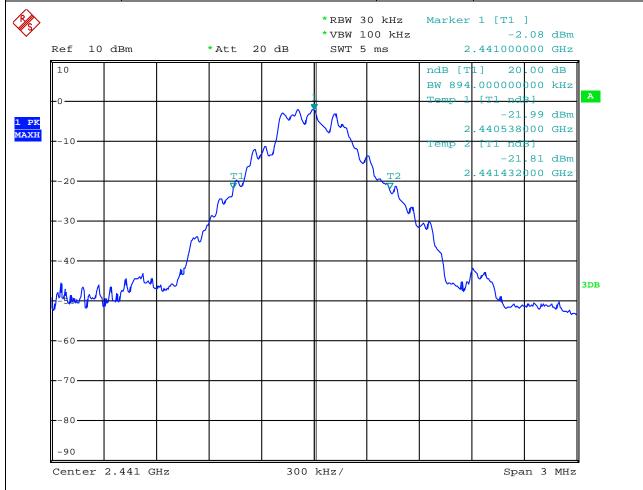
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GFSK			
Product:	GAMING COMPUTER SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	894kHz		



Date: 4.SEP.2024 10:42:51

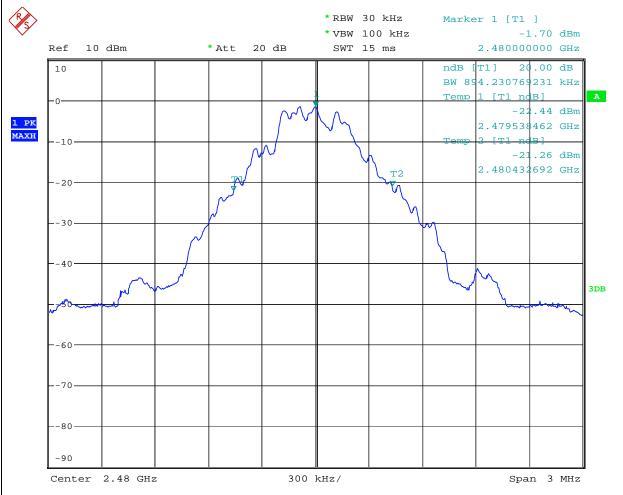
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GFSK			
Product:	GAMING COMPUTER SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	894kHz		



Date: 4.SEP.2024 10:44:01

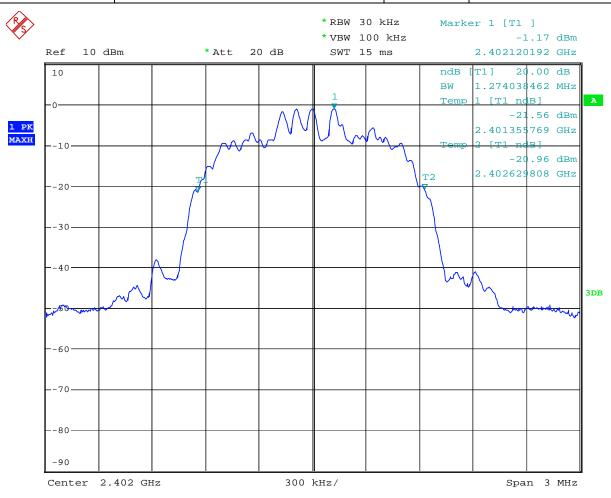
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Л/4DQPSK			
Product:	GAMING COMPUTER SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.274MHz		



Date: 4.SEP.2024 10:47:19

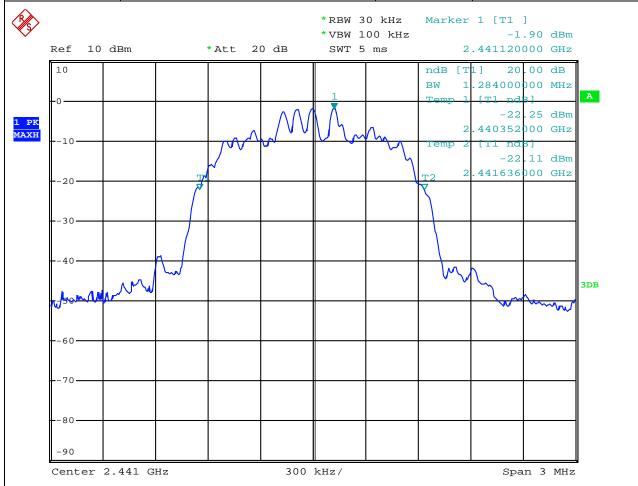
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Л/4DQPSK			
Product:	GAMING COMPUTER SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.284MHz		



Date: 4.SEP.2024 10:46:30

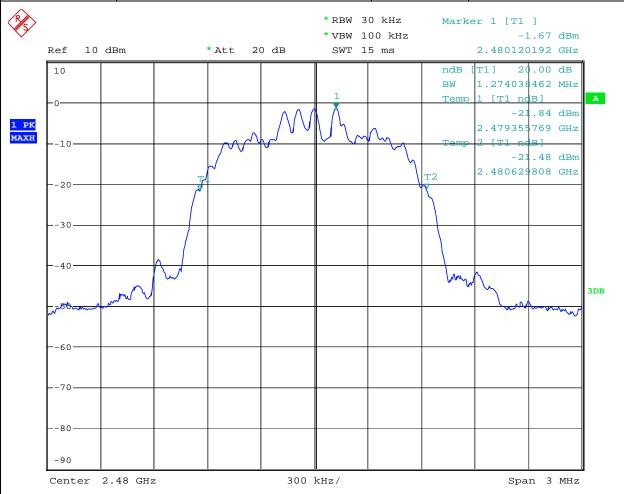
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Л/4DQPSK			
Product:	GAMING COMPUTER SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.274MHz		



Date: 4.SEP.2024 10:46:01

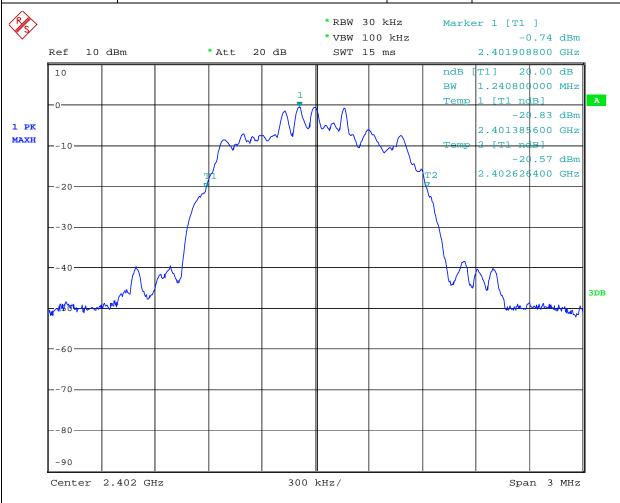
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8DPSK			
Product:	GAMING COMPUTER SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.241MHz		



Date: 6.SEP.2024 12:36:08

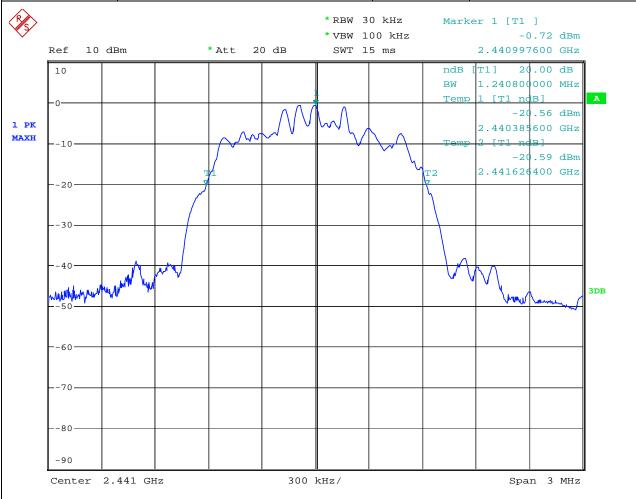
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8DPSK			
Product:	GAMING COMPUTER SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.241MHz		



Date: 6.SEP.2024 12:44:06

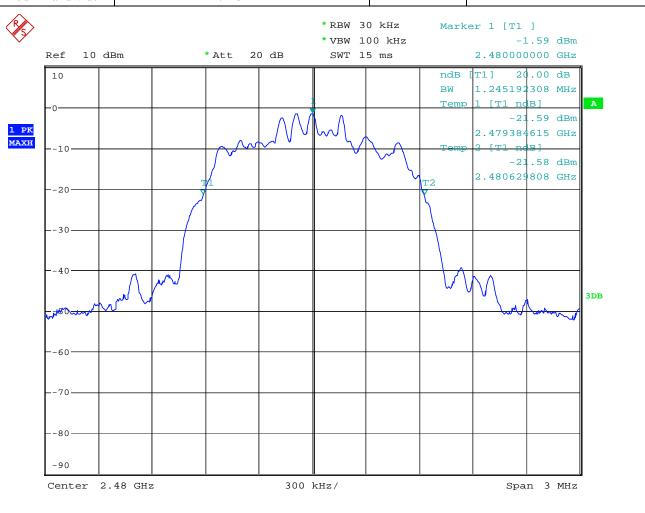
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8DPSK			
Product:	GAMING COMPUTER SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.245MHz		



Date: 6.SEP.2024 12:53:55

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10.0 FCC ID Label

FCC ID: TUVGS814

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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11.0 Photo of testing

11.1 Conducted test View--



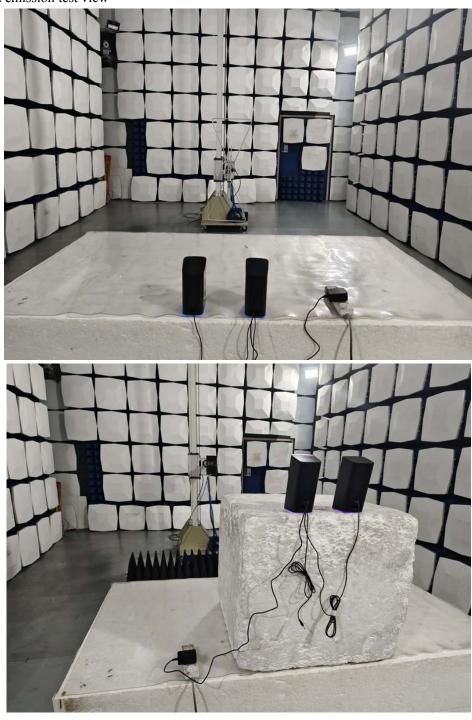
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Radiated emission test view



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Photographs - EUT

Outside View





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Outside View





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Outside View





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Outside View



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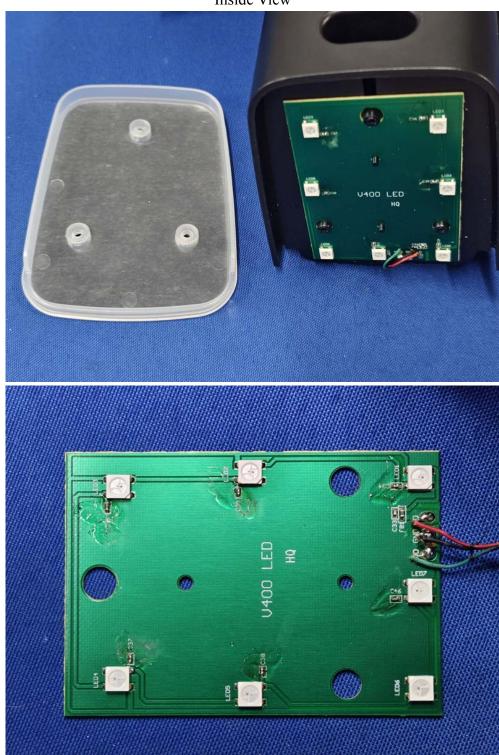
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Inside View



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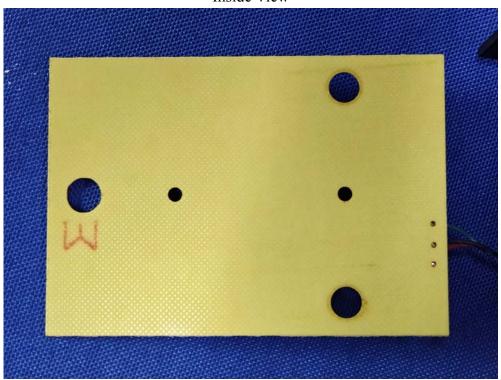
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to

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Inside View



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Inside View





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Inside View



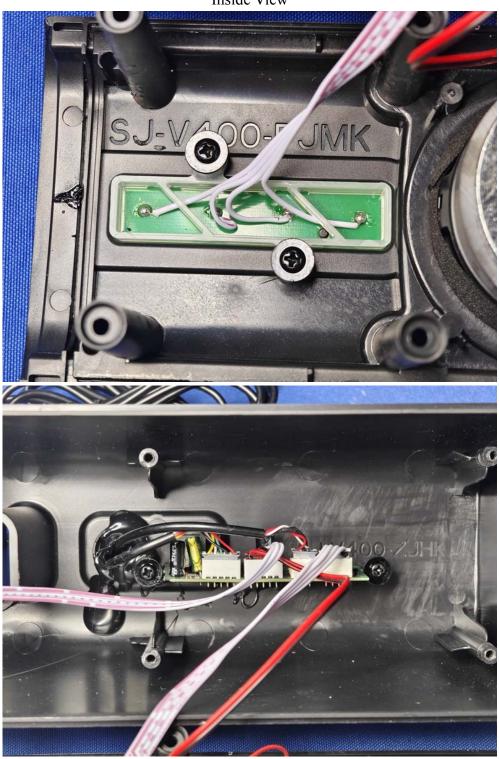
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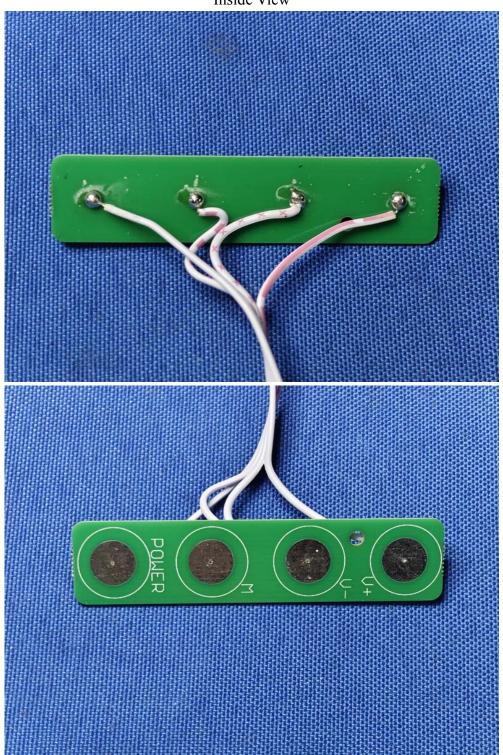
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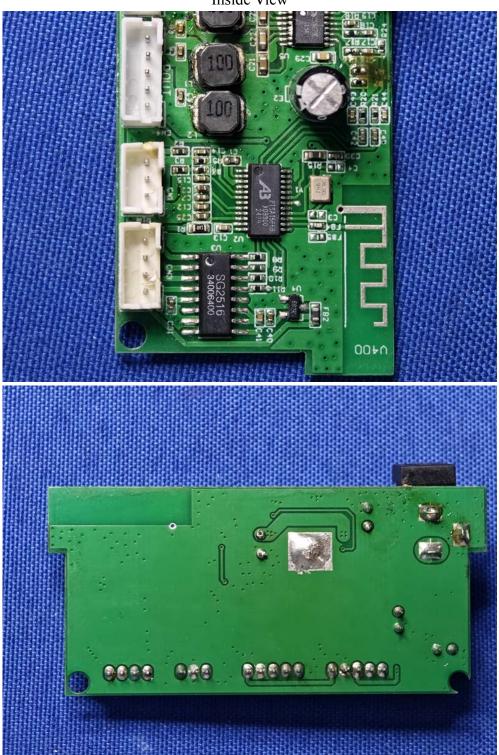
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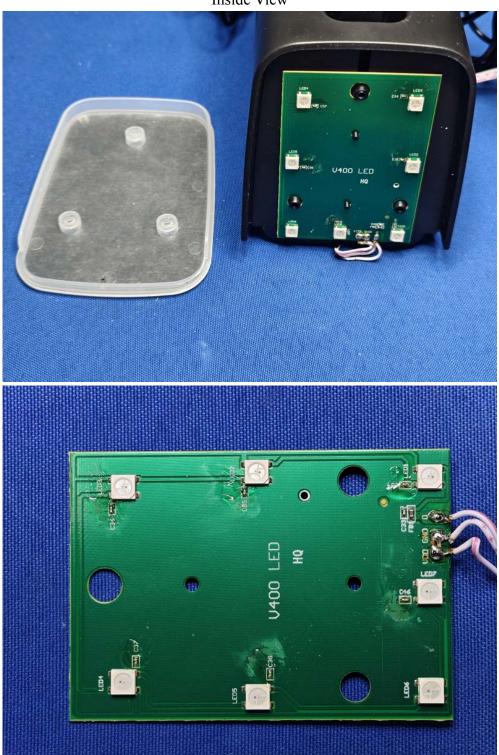
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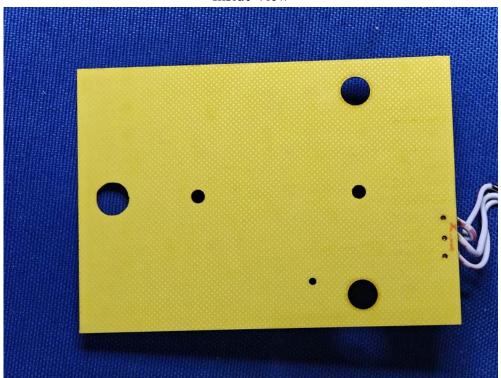
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-- End of the report--