

Report No.: TW2302109-02E

Applicant: Eastern Times Technology Co.,Ltd

Product: WIRED/2.4G/BT GAMING MOUSE

Model No.: M693-RGB, DS-2910

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

Terry long

Terry Tang

Manager

Dated: March 06, 2023

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:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

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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11.0

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Antenna Requirement.....

20dB bandwidth measurement....

FCC ID Label

Photo of Test Setup and EUT View....

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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.

Telephone: --Fax: --

1.3 Description of EUT

Product: WIRED/2.4G/BT GAMING MOUSE

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: M693-RGB Additional Model Name DS-2910

Hardware Version: 2910-B1 TX V3 Software Version: V4.31_359ba6cb

Serial No.: RDM893-RGB22101000404

Rating: DC5V, 260mA or DC3.7V, 120mA Battery: DC3.7V, 700mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain 2.24dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration 2023-02-15 to 2023-03-06

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	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
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	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
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	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-07-15	2023-07-14
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

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

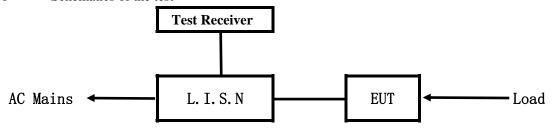
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

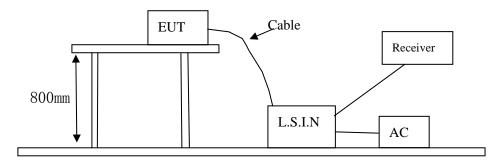


EUT: Equipment Under Test

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	
WIRED/2.4G/BT GAMING	Eastern Times	M693-RGB, DS-2910	TIIVDC 2010D	
MOUSE	Technology Co.,Ltd	M093-RGB, DS-2910	TUVDS-2910B	

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

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		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 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)

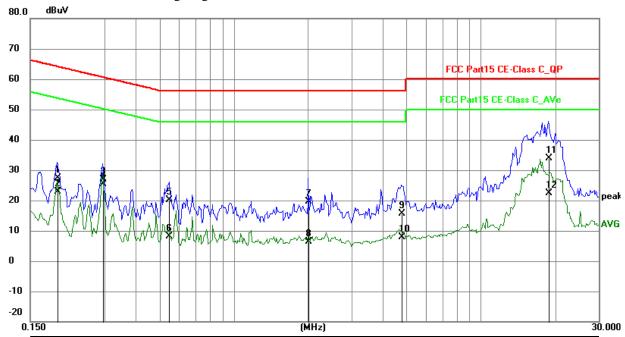
EUT Operating Environment

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

EUT set Condition: Charging and 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	0.1929	17.70	9.75	27.45	63.91	-36.46	QP	Р
2	0.1929	13.08	9.75	22.83	53.91	-31.08	AVG	Р
3	0.2943	17.13	9.76	26.89	60.40	-33.51	QP	Р
4	0.2943	15.72	9.76	25.48	50.40	-24.92	AVG	Р
5	0.5478	10.45	9.77	20.22	56.00	-35.78	QP	Р
6	0.5478	-1.65	9.77	8.12	46.00	-37.88	AVG	Р
7	2.0064	9.81	9.80	19.61	56.00	-36.39	QP	Р
8	2.0064	-3.31	9.80	6.49	46.00	-39.51	AVG	А
9	4.7900	5.75	9.92	15.67	56.00	-40.33	QP	Р
10	4.7900	-2.15	9.92	7.77	46.00	-38.23	AVG	Р
11	18.7287	23.27	10.60	33.87	60.00	-26.13	QP	Р
12	18.7287	11.89	10.60	22.49	50.00	-27.51	AVG	Р

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

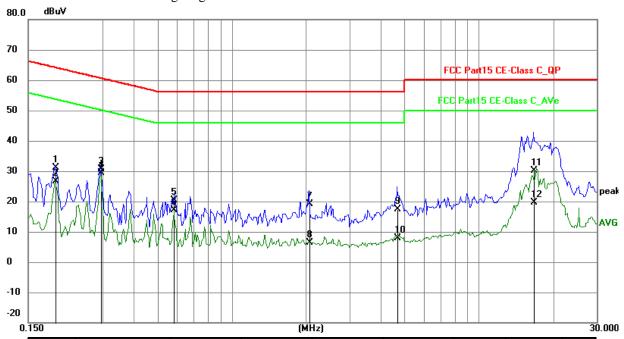
EUT Operating Environment

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

EUT set Condition: Charging and 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	0.1929	21.40	9.75	31.15	63.91	-32.76	QP	Р
2	0.1929	16.99	9.75	26.74	53.91	-27.17	AVG	Р
3	0.2943	20.97	9.76	30.73	60.40	-29.67	QP	Р
4	0.2943	19.61	9.76	29.37	50.40	-21.03	AVG	Р
5	0.5829	10.59	9.77	20.36	56.00	-35.64	QP	Р
6	0.5829	7.40	9.77	17.17	46.00	-28.83	AVG	Л
7	2.0610	9.32	9.80	19.12	56.00	-36.88	QP	Р
8	2.0610	-3.46	9.80	6.34	46.00	-39.66	AVG	Р
9	4.6809	7.55	9.92	17.47	56.00	-38.53	QP	Р
10	4.6809	-2.15	9.92	7.77	46.00	-38.23	AVG	Р
11	16.6695	19.61	10.48	30.09	60.00	-29.91	QP	Р
12	16.6695	9.19	10.48	19.67	50.00	-30.33	AVG	Р

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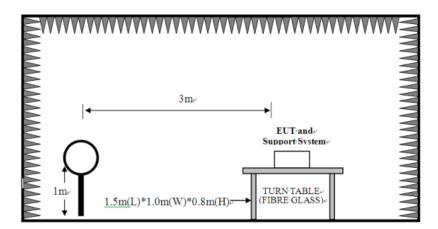


6 Radiated Emission Test

- 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



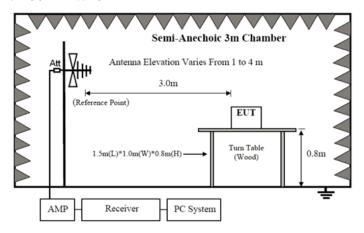
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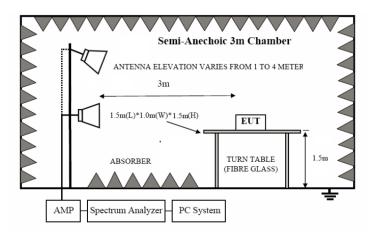
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For radiated emissions from 30MHz to1GHz



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	ntal (3m)	Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m		uV/m	dBuV/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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 6. Battery full charged during tests.

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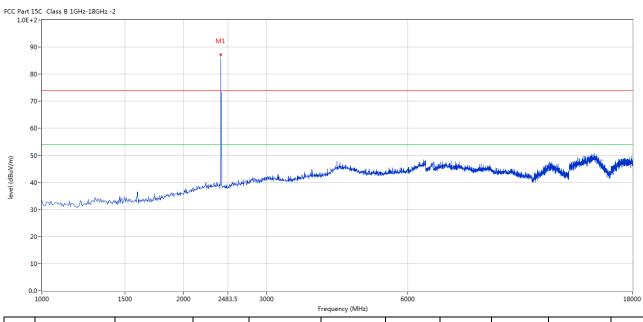


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



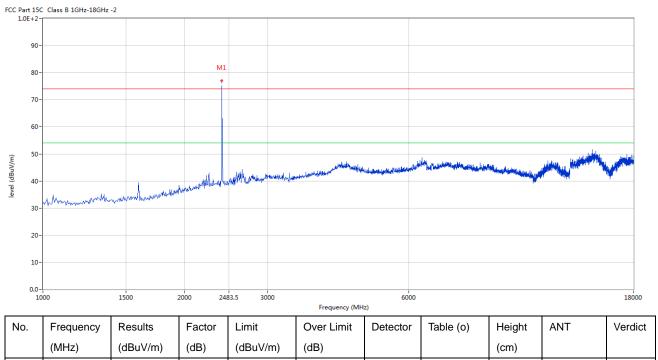
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	87.26	-3.57	114.0	-26.74	Peak	263.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	77.30	-3.57	114.0	-36.70	Peak	325.00	100	Vertical	Pass

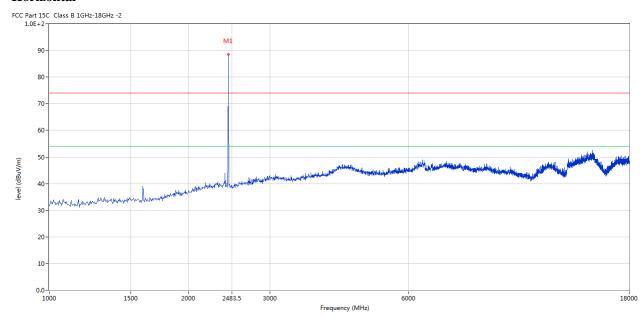
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



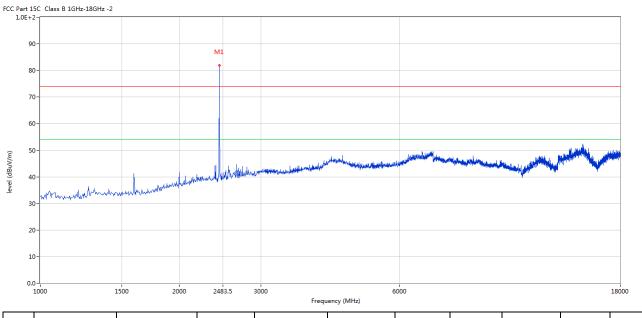
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
Ī	1	2441	88.54	-3.57	114.0	-25.46	Peak	270.00	100	Horizontal	Pass

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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	81.92	-3.57	114.0	-32.08	Peak	194.00	100	Vertical	Pass

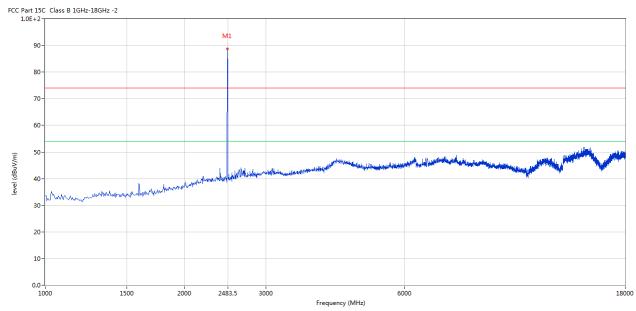
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



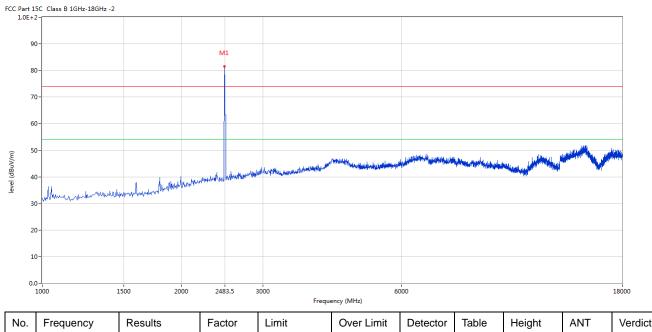
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	88.67	-3.57	114.0	-25.33	Peak	360.00	100	Horizontal	Pass

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Vertical



١	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2480	81.68	-3.57	114.0	-32.32	Peak	6.00	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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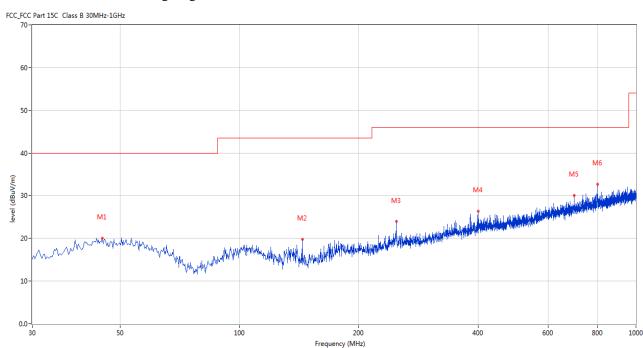


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	45.031	20.04	-11.41	40.0	-19.96	Peak	7.00	100	Horizontal	Pass
2	143.947	19.79	-17.10	43.5	-23.71	Peak	67.00	200	Horizontal	Pass
3	248.438	23.93	-12.19	46.0	-22.07	Peak	48.00	100	Horizontal	Pass
4	399.720	26.36	-8.57	46.0	-19.64	Peak	15.00	100	Horizontal	Pass
5	698.405	30.08	-4.25	46.0	-15.92	Peak	48.00	200	Horizontal	Pass
6	799.745	32.71	-2.97	46.0	-13.29	Peak	111.00	100	Horizontal	Pass

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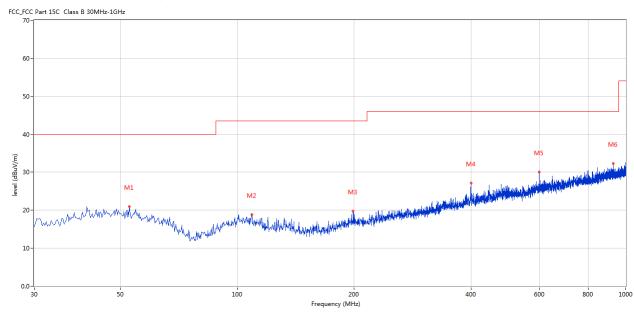


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	52.789	20.93	-11.48	40.0	-19.07	Peak	253.00	200	Vertical	Pass
2	109.035	18.88	-13.53	43.5	-24.62	Peak	351.00	100	Vertical	Pass
3	198.738	19.72	-13.50	43.5	-23.78	Peak	335.00	100	Vertical	Pass
4	399.963	27.17	-8.57	46.0	-18.83	Peak	82.00	100	Vertical	Pass
5	598.520	30.01	-5.12	46.0	-15.99	Peak	0.00	200	Vertical	Pass
6	929.208	32.30	-1.74	46.0	-13.70	Peak	69.00	200	Vertical	Pass

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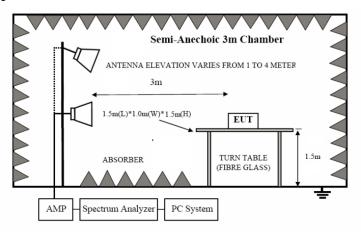


7. Band Edge

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.

The report refers only to the sample tested and does not apply to the bulk.

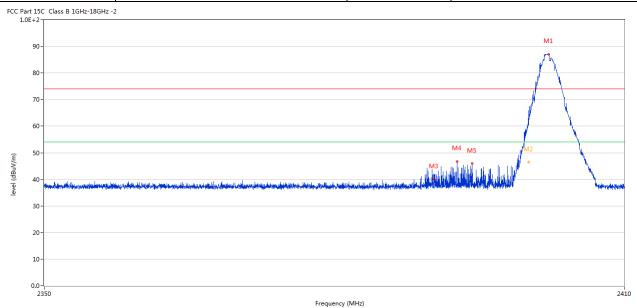
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7.6 Test Result

Product:	WIRED/2.4G/BT GAMING MOUSE	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
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	2402.097	87.09	-3.57	74.0	13.09	Peak	266.00	100	Horizontal	N/A
2	2400.000	60.44	-3.57	74.0	-13.56	Peak	88.00	100	Horizontal	Pass
2**	2400.000	46.43	-3.57	54.0	-7.57	AV	88.00	100	Horizontal	Pass
3	2390.000	40.10	-3.53	74.0	-33.90	Peak	10.00	100	Horizontal	Pass
4	2392.529	46.76	-3.54	74.0	-27.24	Peak	10.00	100	Horizontal	Pass
5	2394.134	45.89	-3.55	74.0	-28.11	Peak	10.00	100	Horizontal	Pass

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]	Product:	WIRED/2.4	G/BT GAN	MING MOUS	E Det	tector		Vert	ical	
	Mode	Kee	ping Trans	mitting	Test '	Voltage		DC3	3.7V	
Те	mperature		24 deg. (nidity		56%	RH	
	est Result:		Pass	•					_	
Part 1	LSC Class B 1GHz-18GHz -	<u>1</u> 2								
9: 8: 7: 6:	0-					M4		M	11	
4	0-	akine johan, aktiballishorakallisha	ellefelmet le sikunden vekni	يتوافأ فالإسراب الموافق والماضات الديد	المرافي والمرافي والمرافية والمرافية والمرافية والمرافية والمرافية والمرافية والمرافية والمرافية والمرافية والم			M5	Wares	and the state of t
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4 3 2 1 0.	0-0-0-0-2350			·	uency (MHz)					2410
4 3 2 1 1 O.		Results (dBuV/m)	Factor (dB)	·	uency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2410
4 3 2 1 0.	0	Results	Factor	Limit (dBuV/m)	Over Limit			Height		2410
4 3 2 1 0.	o- 0- 0- 0- 0- 0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m) 74.0	Over Limit (dB)	Detector	(0)	Height (cm)	ANT	verd N/A
4 3 2 1 1 0.	Frequency (MHz) 2402.262	Results (dBuV/m) 77.14	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB)	Detector Peak	(o) 280.00	Height (cm)	ANT Vertical	Verdi N/A Pass
44 31 22 11 0.	Frequency (MHz) 2402.262 2400.012	Results (dBuV/m) 77.14 51.76	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0 74.0	Over Limit (dB) 3.14 -22.24	Detector Peak Peak	(o) 280.00 199.00	Height (cm) 100 100	ANT Vertical Vertical	2410 Verdi

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	Product:	WIRED/2.	4G/BT G	AMING MOU	JSE	Polarity		Н	orizontal		
	Mode	Ke	eping Tra	nsmitting	Te	Test Voltage DC3.7					
Te	emperature		24 deg	. C,]	Humidity	56% RH				
T	est Result:		Pass	S							
C Part	15C Class B 1GHz-18GHz +2-	-2									
			M1								
	90-		- Jan								
	80-		1								
	70-		1								
	60-		\int								
	/										
	50-			1							
	40-	Marian Andrews Company			Manufacture of the second	ورية أرطيني والمحروب وأريانية والمراور	والمرابع المرابع المرا	in a state of the	e-mindelikere, plajk jirokolik mis jos politikerikis	Adjection to	
	30-										
	20-										
	10-										
(2470			2483.5						2500	
					requency (MHz)						
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdi	
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)			
1	2479.913	88.13	-3.57	74.0	14.13	Peak	91.00	100	Horizontal	N/A	
2	2492 500	F0.70	2.57	74.0	24.27	Dools	E4 00	100	Harizantal	Door	

No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.913	88.13	-3.57	74.0	14.13	Peak	91.00	100	Horizontal	N/A
2	2483.500	52.73	-3.57	74.0	-21.27	Peak	51.00	100	Horizontal	Pass

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Product:		WIRED/2.	.4G/BT G <i>A</i>	AMING MOUSE	Detector		rtical			
	Mode	Ke	eping Tran	nsmitting	Test Voltage		DC3.7V			
Te	mperature		24 deg.	. С,	Humidity					
Te	est Result:		Pass	}						
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	2								
9	10-									
0	30-		M1							
7	0-		1							
6	60-		1							
	60-		1	M2						
		hayek whiteler here have been been been been been been been be		M2	hahilita ila dilikula mana dake	James and the design of the second price		, Maria de La Lacidade de La Lacidade de Lacidade de Lacidade de Lacidade de Lacidade de Lacidade de Lacidade d	wallho	
5	0-	haisti alitalla direction		M2	hadalati iliyaddildi danaa sa, dad ta	Long and the state of the sale	Anglish Waldstrale	. Pakitha ka dhika ki in ki	isyradishiri	
5 4		hand alter him ha		M2	hahalata dan didiki di waxaa dada k	month of the ship of	Mary to hill the high distriction	. Pake talah madalah sahir sahir	uralihi	
3				M2	hadalata jilga didilalada araa saa daada k	lana addishlaraking	dhay ka Milik dhi dhi a da	, the subject of the second	urallihi	
3 2				M2		and the state of t	dag ballilik kilik likalas	, parada na dipendina di pendina d	ULYKANA	
5 5 4 3 3 2 1 1 0.				2483.5 Frequency (N	TO THE PROPERTY OF THE PROPERT	han said de de de la constitución de la constitució	dag bahhlikidddinda	, parada na di kabana	2500	
5 5 4 3 3 2 1 1 0.		Results	Factor	2483.5 Frequency (f	TO THE PROPERTY OF THE PROPERT	Table	Height	ANT	1	
3 2 1 0.	0	Results (dBuV/m)	Factor (dB)	2483.5 Frequency (f	MHz) er Limit Detector	And Andreas Comment	region of the second of the se	The second se	1	
3 2 1 0.	00- 00- 00- 00- 00- 00- 00- 00- 00- 00-			2483.5 Frequency (N	MHz) er Limit Detector	Table	Height	The second se	z500 Verdic	

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

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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 2.24dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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Mode Keeping Transmitting Test Voltage Temperature 24 deg. C, Humidity Test Result: Pass Detector OdB Bandwidth 1.022MHz Marker 1 [T1 ndB] RBW 30 kHz RF Att ndB 20.00 dB VBW 100 kHz 10 dBm BW 1.02204409 MHz SWT 8.5 ms Unit 10 dBm BW 1.02204409 MHz SWT 8.5 ms Unit 2.40	DC3.7V 56% RH PK
Temperature 24 deg. C, Humidity Test Result: Pass Detector 20dB Bandwidth 1.022MHz Marker 1 [T1 ndB] RBW 30 kHz RF Att ndB 20.00 dB VBW 100 kHz 10 dBm BW 1.02204409 MHz SWT 8.5 ms Unit 10	56% RH PK
Test Result: Pass	PK
OdB Bandwidth 1.022MHz Marker 1 [T1 ndB]	
Marker 1 [T1 ndB] RBW 30 kHz RF Att ndB 20.00 dB VBW 100 kHz 10 dBm BW 1.02204409 MHz SWT 8.5 ms Unit 2.40 ndB BW 1.02 ndB BW	
Ref Lvl ndB 20.00 dB VBW 100 kHz 10 dBm BW 1.02204409 MHz SWT 8.5 ms Unit 10 v1 [T1] 2.40 BW 1.02 VT [T1] 2.40 1MAX -30 -40	
10 dBm BW 1.02204409 MHz SWT 8.5 ms Unit 10	20 dB
10 V1 [T1] 2.40 10 BW 1.02 VT [T1] 2.40 1MAX 2.40 1MAX	
0	dBm
1.02 TT BW 1.02 VT: [T1] 2.40 TMAX -30 -40	-0.32 dBm
-10 -20 -1MAX -30 -40	202104 GHz
-10 -20 1MAX -30 -40	20.00 dB
-20 1MAX -30 -40	
-20 IMAX 2.40	-19.83 dBm 150401 GHz
-30 -40	-20.13 dBm
-30	252605 GHz
-40	1
-50	
	V
-60	
-70	
-80	
-90 Center 2.402 GHz 300 kHz/	

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Product:	WIRED/2.4	4G/BT GAM	E	Test Mode:	Keep transmitting				
Mode	Kee	eping Transm	Γ	Test Voltage	DC3.7V				
Temperature	24 deg. C,				Humidity	56% RH			
Test Result:		Pass			Detector			PK	
OdB Bandwidth	1.034MHz								
r)	Mark	er 1 [T1	ndB]	RBW	30 kH	z RF	' Att	20 dB	
Ref Lvl	ndB		0.00 dB	VBW	100 kH				
10 dBm	BW	1.03406	814 MHz	SWT	8.5 ms	Un	it	dBm	1
10					v ₁ [[T1]	- (0.80 dBm	A
				1			2.44102	2104 GHz	
0			~	1	ndB		20	0.00 dB	
				~~~	BW ▼ _{T1}	[T1]	1.03406	0.77  dBm	
-10		/	W	<u></u>	4		2.44049	9800 GHz	
		TI			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	[T1]	-20	0.89 dBm	
-20		<b>1</b>			7		2.44153	3206 GHz	1M
IMAX					3				IM
-30	^	<del>/                                     </del>							
	$\sim$								
-40	The same of the sa								
ممسم							\		
-50									
								V	
-60									
-70									
-80									
-90	1.1.1 5:			:			_	2	
Center 2	.441 GHz		300	KHZ/			Spa	an 3 MHz	

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Product:	WIRED/2.4G/	'	Test Mode:	Keep transmitting					
Mode	Keeping Transmitting 24 deg. C,				Fest Voltage	DC3.7V 56% RH			
Temperature					Humidity				
Test Result:		Pass			Detector		F	K	
0dB Bandwidth	1.004MHz								
Ŕ <b>A</b>	Marker	1 [T1 no	dB]	RBW	30 kHz	: RF	Att	20 dB	
Ref Lvl	ndB	20.	00 dB	VBW	100 kHz	:			
10 dBm	BW	1.004008	02 MHz	SWT	8.5 ms	Un	it	dBm	ı
10					<b>v</b> ₁ [	г1]	-1	.05 dBm	
			1				2.48002	104 GHz	A
0			~~	١	ndB		20	.00 dB	
			$\sim$	کسر	BW		L.00400	802 MHz	
-10			v [/]		V _{T1}	[T1]	-21	.48 dBm	
							2.47952		
-20		T/			TZ2	[T1]	-20 2.48052	.99 dBm 605 GHz	
1MAX	•	$\wedge$					2.40032	005 G112	1M
-30	~~~~								
-40	- Amarian de la company de					V		$\wedge$	
-50									
-60									
-70									
-80									
-90 Center 2.	48 GHz		300 ki	Hz/			Spa	n 3 MHz	

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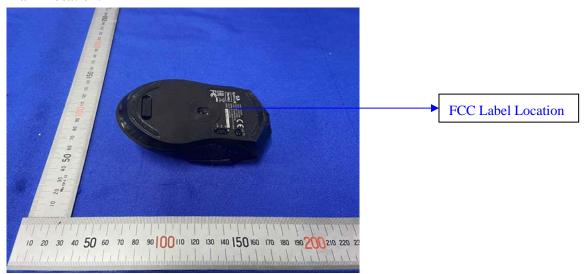


#### 10.0 FCC ID Label

#### FCC ID: TUVDS-2910B

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



Photographs - EUT

Please refer test report TW2302109-01E

# -- End of the report--

The report refers only to the sample tested and does not apply to the bulk.

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