



Report No.: File reference No.:	TW2104193E 2021-05-13
Applicant:	Eastern Times Technology Co.,Ltd
Product:	WIRED & WIRELESS GAMING MOUSE
Model No.:	M686RGB, DS-2835
Brand Name:	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	electromagnetie compatient,
Jack Chung	
Jack Chung Manager	
Dated:	May 13, 2021
	herein relate only to the sample tested orts is issued errors and omissions exempt and is subject to
SHENZHE	N 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



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 17025:2005 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

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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, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number: 744189

For 3m Anechoic Chamber

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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 & WIRELESS GAMING MOUSE
Manufacturer:	Eastern Times Technology Co.,Ltd
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,
	Dongguan City, Guangdong, China.
Brand Name:	REDRAGON
Model Number:	M686RGB
Additional Model Name	DS-2835
Hardware Version:	V3.07
Software Version:	CX52810 QFN56
Serial No.:	RDM686RGB20083002821
Rating:	DC3.7V, 62mA or DC5V, 280mA,
	Built-in DC3.7V, 1000mAh, 3.7Wh Li-ion battery;
Modulation Type:	GFSK
Operation Frequency:	2403-2480MHz
Channel Number:	16
Channel List (Unit: MHz):	2403, 2424, 2441, 2461, 2414, 2435, 2450, 2470, 2409, 2429, 2455, 2475,
	2419, 2445, 2465, 2480
Antenna Designation	PCB antenna with gain -1.85dBi Max (Declared by the applicant)

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1.4 Submitted Sample: 1 Sample

- 1.5 Test Duration 2021-04-15 to 2021-05-13
- 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

Terry (ang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment	2.0 Test Equipment				
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic			N/A	2020-07-06	2021-07-05
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/F A		2020-06-23	2021-06-22
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

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 EUT has been tested according to the second s	he following speci	fications:	
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

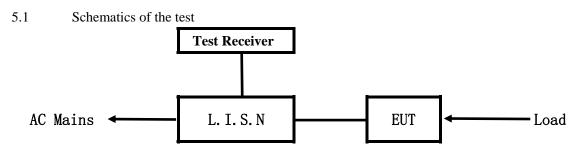
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5. Power Line Conducted Emission Test

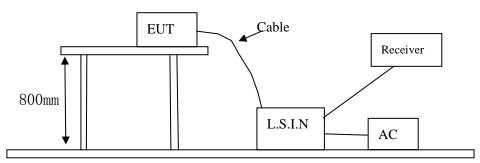


EUT: Equipment Under Test

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 500hm/50uH as specified by section 5.1 of ANSI C63.10-2013.

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. One channels are provided to the EUT

A.	EUT

Device	Manufacturer	Model	FCC ID
WIRED & WIRELESS	Eastern Times Technology Co. I td	M686RGB,	TIMDS 2925
GAMING MOUSE	Eastern Times Technology Co.,Ltd	DS-2835	TUVDS-2835

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B. Internal Device

2.	1110011141 200100			
	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		
$5.00~\sim~30.00$	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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		on Live Terr			/			
	Operating Envi							
-	erature: 25°C	Humidity:		Atmospheri	c Pressure:	101 kPa		
	set Condition: (Charging and	l Keep Trai	nsmitting				
	Its: Pass							
	e refer to followi	ng diagram fo	or individua	l				
80.0 00								
70								_
60					FC	C Part15 CE-Cla	ass C_QP	
50					FCC	Part15 CE-Clas	s C_AVe	
11	M1, 3							
40	HARVIAN M	5						
30		Albren Mary	L. A. L.	\mathcal{A}	Mary	Vn g	n l	_
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0								
-10								
-10 -20 0.150			4)	IHz)				30.00
-20 0.150	Frequency	Reading				Margin		
-20	Frequency (MHz)	Reading (dBuV)	⊮ Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
-20 0.150			Factor	Level		-	Detector	
-20 0.150	(MHz)	(dBuV)	Factor (dB)	Level (dBuV)	(dBuV)	(dB)	Detector	P/F
-20 0.150 NO.	(MHz) 0.1850	(dBuV) 33.72	Factor (dB) 9.76	Level (dBuV) 43.48	(dBuV) 64.26	(dB) -20.78	QP	P/F P
-20 0.150 No. 1 2	(MHz) 0.1850 0.1850	(dBuV) 33.72 16.31	Factor (dB) 9.76 9.76	Level (dBuV) 43.48 26.07	(dBuV) 64.26 54.26	(dB) -20.78 -28.19	QP AVG	P/F P P
-20 0.150 No. 1 2 3	(MHz) 0.1850 0.1850 0.4464	(dBuV) 33.72 16.31 30.74	Factor (dB) 9.76 9.76 9.77	Level (dBuV) 43.48 26.07 40.51	(dBuV) 64.26 54.26 56.94	(dB) -20.78 -28.19 -16.43	QP AVG QP AVG	P/F P P
-20 0.150 No. 1 2 3 4	(MHz) 0.1850 0.1850 0.4464 0.4464	(dBuV) 33.72 16.31 30.74 23.21	Factor (dB) 9.76 9.76 9.77 9.77	Level (dBuV) 43.48 26.07 40.51 32.98	(dBuV) 64.26 54.26 56.94 46.94	(dB) -20.78 -28.19 -16.43 -13.96	QP AVG QP AVG QP	P/F P P P
-20 0.150 No. 1 2 3 4 5	(MHz) 0.1850 0.1850 0.4464 0.4464 0.8325	(dBuV) 33.72 16.31 30.74 23.21 23.60	Factor (dB) 9.76 9.76 9.77 9.77 9.77	Level (dBuV) 43.48 26.07 40.51 32.98 33.38	(dBuV) 64.26 54.26 56.94 46.94 56.00	(dB) -20.78 -28.19 -16.43 -13.96 -22.62	QP AVG QP AVG QP AVG AVG	P/F P P P P
-20 0.150 NO. 1 2 3 4 5 6	(MHz) 0.1850 0.1850 0.4464 0.4464 0.8325 0.8325	(dBuV) 33.72 16.31 30.74 23.21 23.60 16.48	Factor (dB) 9.76 9.76 9.77 9.77 9.78 9.78	Level (dBuV) 43.48 26.07 40.51 32.98 33.38 26.26	(dBuV) 64.26 54.26 56.94 46.94 56.00 46.00	(dB) -20.78 -28.19 -16.43 -13.96 -22.62 -19.74	QP AVG QP AVG QP AVG AVG	P/F P P P P P
-20 0.150 No. 1 2 3 4 5 6 7	(MHz) 0.1850 0.1850 0.4464 0.4464 0.8325 0.8325 0.8325 3.6123	(dBuV) 33.72 16.31 30.74 23.21 23.60 16.48 20.14	Factor (dB) 9.76 9.76 9.77 9.77 9.78 9.78 9.87	Level (dBuV) 43.48 26.07 40.51 32.98 33.38 26.26 30.01	(dBuV) 64.26 54.26 56.94 46.94 56.00 46.00 56.00	(dB) -20.78 -28.19 -16.43 -13.96 -22.62 -19.74 -25.99	QP AVG QP AVG QP AVG QP AVG	P P P P P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Humidity: 65%RH Atmospheric Pressure: 101 kPa Temperature: 25℃ **EUT set Condition: Charging and Keep Transmitting Results: Pass** Please refer to following diagram for individual dBuV 80.0 70 FCC Part15 CE-Class C_QP 60 FCC Part15 CE-Class C_AVe 50 40 30 peak 20 AVG 10 0 -10 -20 (MHz) 30,000 0.150 Frequency Reading Factor Level Limit Margin P/F Detector No. (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 1 0.1578 35.04 9.78 44.82 65.58 -20.76 QP Ρ 2 0.1578 16.84 9.78 26.62 55.58 -28.96 AVG Ρ 3 0.1734 34.22 9.77 43.99 64.80 -20.81 QP Ρ 4 0.1734 9.77 Ρ 16.77 26.54 54.80 -28.26 AVG 5 0.4425 28.31 9.77 38.08 57.01 -18.93 QP Ρ 6 0.4425 24.78 9.77 34.55 47.01 -12.46 AVG Ρ 7 Ρ 0.8286 20.35 9.78 30.13 -25.87 QP 56.00 8 15.78 9.78 25.56 46.00 -20.44 AVG Ρ 0.8286 Ρ 9 1.3707 18.66 9.79 28.45 56.00 -27.55 QP 10 1.3707 9.79 20.46 -25.54 Ρ 10.67 46.00 AVG QP Ρ 11 1.9596 9.80 26.50 56.00 -29.50 16.70 12 1.9596 10.17 9.80 19.97 46.00 -26.03 AVG Ρ

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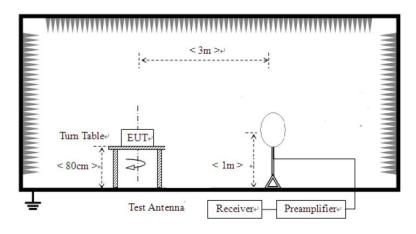


6 Radiated Emission Test

- 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

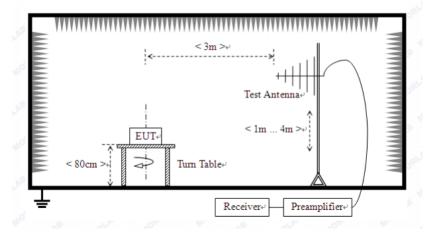


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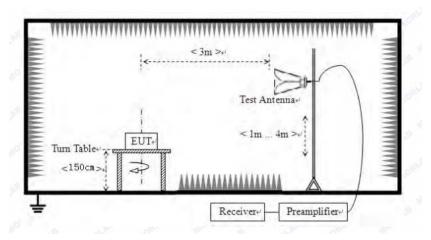
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For radiated emissions from 30MHz to1GHz



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 St	trength of Harmo	nics (3m)
(MHz)	mV/m	dBu	V/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)
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. Battery full charged during tests.

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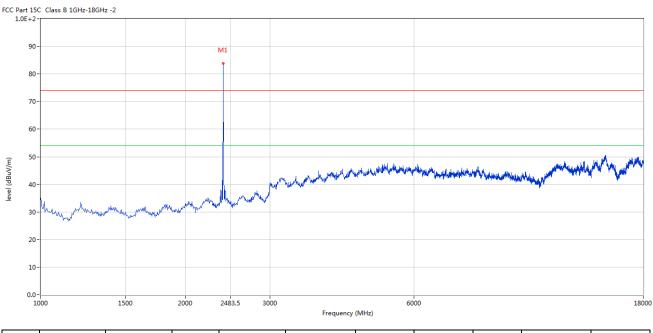


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2403MHz

Horizontal

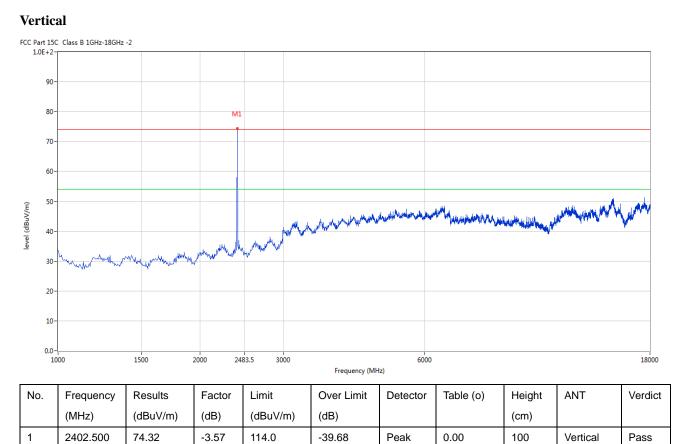


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	84.34	-3.57	114.0	-33.66	Peak	262.00	100	Horizontal	Pass

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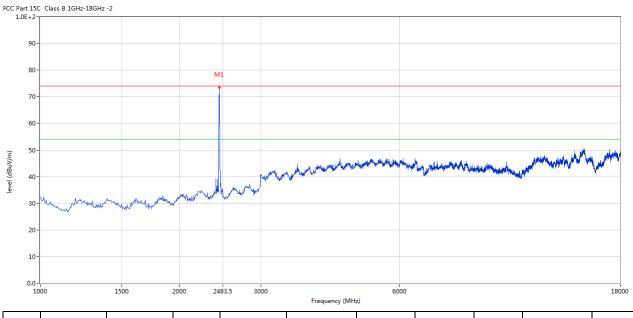
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal

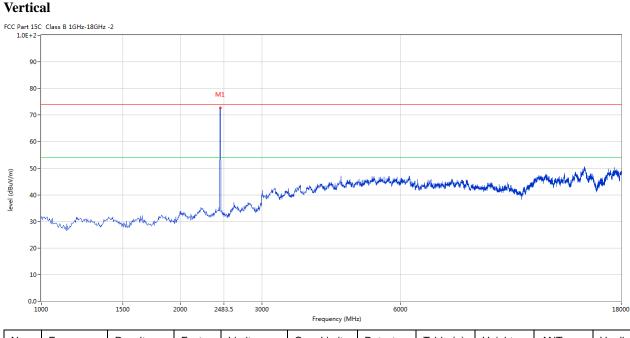


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	73.43	-3.57	114.0	-40.57	Peak	360.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	72.77	-3.57	114.0	-41.23	Peak	220.00	100	Vertical	Pass

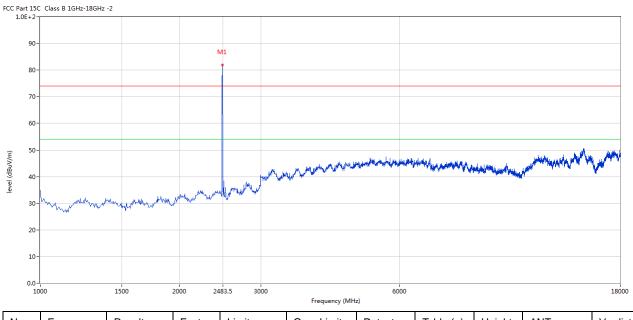
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

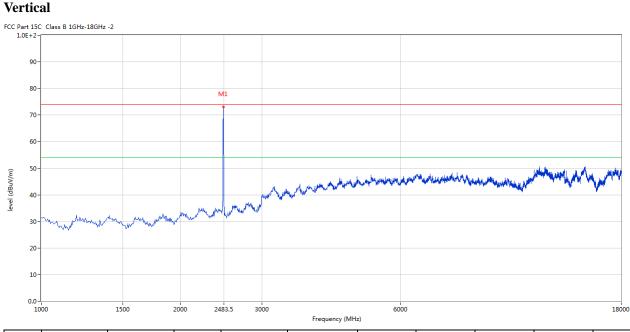


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.000	81.84	-3.57	114.0	-32.16	Peak	257.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.000	73.04	-3.57	114.0	-40.96	Peak	270.00	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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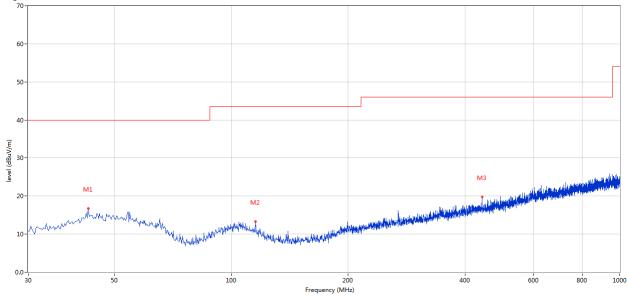
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	42.849	16.69	-11.52	40.0	-23.31	Peak	43.00	100	Horizontal	Pass
2	115.339	13.28	-14.48	43.5	-30.22	Peak	282.00	100	Horizontal	Pass
3	442.632	19.83	-7.94	46.0	-26.17	Peak	187.00	100	Horizontal	Pass

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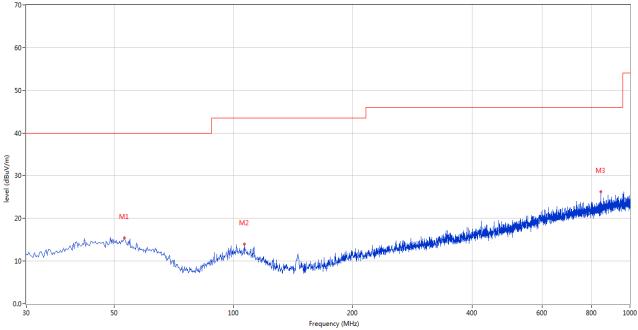
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	53.032	15.43	-11.50	40.0	-24.57	Peak	257.00	100	Vertical	Pass
2	106.611	14.02	-13.36	43.5	-29.48	Peak	159.00	100	Vertical	Pass
3	843.384	26.23	-2.76	46.0	-19.77	Peak	69.00	100	Vertical	Pass

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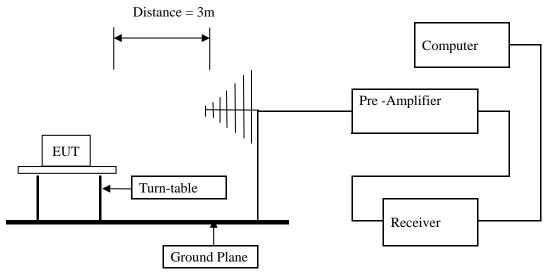


7. Band Edge

7.1 Test Method and test Procedure:

- 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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7.6 Test Result

F	Product:	WIRI		IRELESS O MOUSE	GAMING	Pola	arity		Horizonta	al
	Mode		Keepin	g Transmitti	ing	Test V	/oltage		DC3.7V	7
Ter	mperature		24	4 deg. C,		Hum	nidity		56% RH	I
Te	st Result:			Pass		-				
C Part 15 1.0E+2	5C Class B 1GHz-18GHz ?-r	-2								
90 80 70)								MI	
60 (m 50 40 30 20) -) -) -) -	ىرىلىلەرلىلەر يەرەر يەلىلىلىكى . ئاللەرلىلەر يەرەر يەرىكىلىكى	luidail da la da	a philliphian a la hill			M3	i an an the second s		
() 50 100 100 100 0.00) - 						M3			2410
Ime 50 40 40 30 20 10 20)- - 				Frequency (MH	z)				1
() 50 100 100 100 0.00)	Results	Factor	Limit	Frequency (MH Over Limit		M3	Height	ANT	2410
() () () () () () () () () ())- - - 	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MH Over Limit (dB)	^{z)} Detector	Table (o)	(cm)		Verdict
Ime 50 40 40 30 20 10 20)	Results	Factor	Limit	Frequency (MH Over Limit	z)		-	ANT	1

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	Product:	WIRE	D & WIRELESS O MOUSE	GAMING	Detect	tor	Y	Vertical	
	Mode	l	Keeping Transmitti	ing	Test Vol	tage	Ι	DC3.7V	
Т	emperature		24 deg. C,		Humid	ity	5	56% RH	
Т	Test Result:		Pass						
	t 15C Class B 1GHz-18GHz	-2							
1.0E	E+2-								
	90-								
	80-							M1	
	70-							(m)	
								1 1	
								S N −	
	60-								
	60-						Ma		
					Publi				
	50 - 40 -	u de esti innis facence da de de anterna	sunger with werd ungers sport and with weid with weider the prime different	si ha shuaran in hiki kala kula	le sella de as ^t iliti				
	40-	u de sei souis haar en dankak dimu dan sig	และการใจอยู่และเมาะเคราะไปที่จะได้อยู่ไดยได้คร	siheshametekkelentil	te sel a de ca <mark>t</mark> ilit				
	50 - 40 -	uchtentiteisphannenkarkalastiteinabarrite	ระสรายที่เหลาในชาตร 21 เป็นหนึ่ง เชิง หรือไปเป็น ที่ รูประเทศสีร้างห	od har show we will be black a bell	in na fa dhe an 1911				
	50- 40- 30-	uelesse desig bears on the balance burget	และแหล่งของเหมาะเหมาะเหมาะไม่ไหวที่ได้เป็นที่สุดท่างได้รูกการเป็นจาก	sihandon assanti dala ka dala	le bol a che ca ^l titi i				
	50- 40- 30- 20- 10-	und be sont den skyle for som kinden skiller af berefter	inegen bliverfutering og gener af gener skilder bligering skilder	od har shou a manih di bila ka ka ka k	la na la constantina				
	50- 40- 30- 20-	underset innesis kansen samtaka sidena dan seringa	ระองการประหยุ่งของร่างการการประทั่งกับ (ประวัติการได้การ	Frequency (MHz					2410
	50- 40- 30- 20- 10- 0.0- 2350		Factor Limit			Table (o)	Height	ANT	2410
	50- 40- 30- 20- 10- 0.0- 2350	Results		Frequency (MHz	z)		Height (cm)	ANT	1
	50- 40- 30- 20- 10- 0.0- 2350 . Frequency	Results (dBuV/m)	Factor Limit	Frequency (MHz Over Limit	z)		•	ANT	1

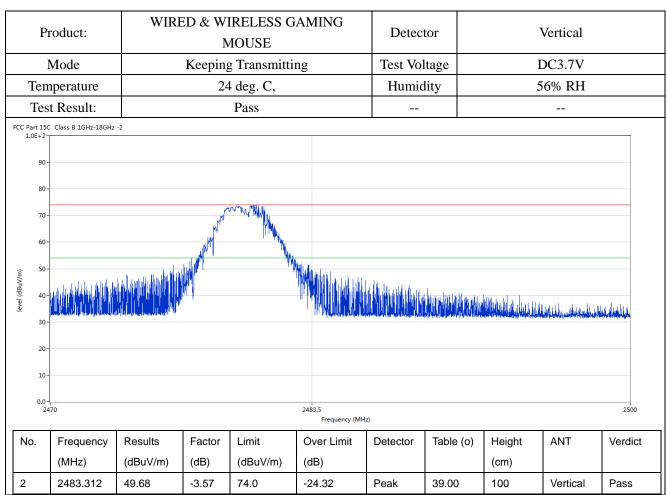
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Product: Mode		WIRED & WIRELESS GAMING MOUSE				Polarity		Horizontal		
			Keeping Transmitting				age	DC3.7V		
Teı	mperature	24 deg. C, Pass				Humidi	ity	56% RH		
Te	st Result:									
2C Part 15 1.0E+2 90 80 70	0-	-2		₩₩						
60 50 (() 70 () 70 () 70 () 70 () 70 () 70 () 70 () 70 () 70) 		HA CONTRACTOR							
() 50 () () () () () () () () () () () () () (2483.5 Frequency (MHz					2500
() 50 100 100 100 0.00		Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)		r	Table (o)	Height (cm)	ANT	2500 Verdict

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

2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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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. The antenna gain is -1.85dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Product:	h Measurement WIRED & WIRELESS GAMING MOUSE				Test Mode:		Keep transmitting			
Mode	Keeping Transmitting					est Voltage	DC3.7V			
Temperature		24 deg. C,			Humidity			56% RH		
Test Result:	Pass				Detector		РК			
20dB Bandwidth	2.325MHz									
Ref Lvl 10 dBm	Marke ndB BW	r 1 [T1 r 20. 2.324649	.00 dB	VE	3W 3W VT	100 ki 300 ki 5 m.	Hz	F Att nit	20 dB dBn	ı
						▼1 ndB	[T1]	-7 2.40243 20	.08 dBm 387 GHz .00 dB	А
-10				\		BW ▼ _{T1}	[T1]	2.32464	.08 dBm	
-20			h	hu	N	N. Way	[T1]	2.40182 -27 2.40414		
1MAX	Tl						F2			1112
-40	Mar							mun		
-50									V	
-60										
-70										
-80										
-90 Center 2.	403 GHz		500	kHz/				Spa	n 5 MHz	Į

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Product:		IRELESS GAMING MOUSE	ŕ	Test Mode:	Keep transmitting DC3.7V 56% RH PK		
Mode	Keepin	g Transmitting		Test Voltage			
Temperature	2	4 deg. C,		Humidity			
Test Result:		Pass		Detector			
20dB Bandwidth	2	.325MHz					
K	Marker	1 [T1 ndB]	RB	W 100 kHz	z RF Att	20 dB	
Ref Lvl	ndB	20.00 dB	VBI				
10 dBm	BW :	2.32464930 MHz	SW	r 5ms	Unit	dBm	
				▼1 [T1] ·	-5.30 dBm	
					2.4410	01503 GHz	
0				ndB	2	20.00 dB	
					2.3246	54930 MHz 25.35 dBm	
-10					2.4398		
		1 mm		V _T 2	[T1] -:	25.04 dBm	
-20	т1	~~~			r2 2.442	14729 GHz 1MA	
IMAX	7				7	IMA	
-30						ANNA I	
					1 mar		
- 40 11 11 11 11 11 11 11					~~~~		
-50							
-60							
-70							
-80							
-90							
Center 2.	.441 GHz	500	kHz/		Sr	pan 5 MHz	
Date: 12	.MAY.2021 16	:00:40					

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Product:	WIRED & WIRELE MOUSE	Test Mode:		Keep transmitting			
Mode	Keeping Trans	mitting	Test	t Voltage	DC3.7V		
Temperature	24 deg. 0	Hu	umidity	56% RH PK			
Test Result:	Pass	De	etector				
20dB Bandwidth	2.244MH	Iz					
R	Marker 1 [T1	ndB]	RBW	100 kHz	RF Att	20 dB	
Ref Lvl			VBW	300 kHz			
10 dBm	BW 2.2444	8898 MHz	SWT	5 ms	Unit	dBm	
				▼1 [T	.1] -	1.61 dBm	
0		1			2.4794		
0		X L		ndB	2	0.00 dB	
			^	BW VT1 [2.2444 T11 -2	8898 MHz 2.02 dBm	
-10	<u> </u>	In I	m		2.4788		
			<i>N</i>	▼ _{T2} [1.98 dBm	
-20				Ý	2.4811	1723 GHz 1MA	
-30						w,	
	$\nabla \nabla \nabla$				an white	Y was	
-40						~~~	
-50							
-60							
-70						+	
- 80							
-90							
Center 2.	.48 GHz	500 kHz	/		Sp	an 5 MHz	
Date: 12	.MAY.2021 15:51:4	0					

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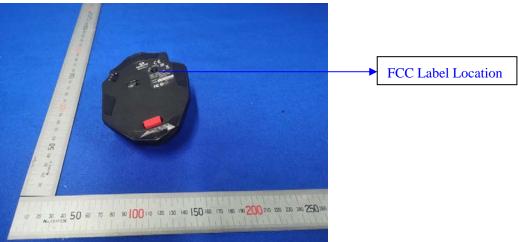
Page 32 of 41

10.0 FCC ID Label

FCC ID: TUVDS-2835

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:



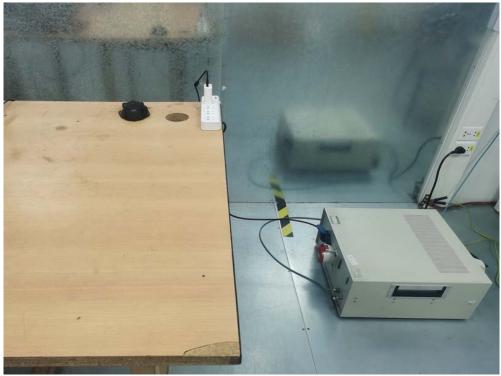
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11.0 Photo of testing

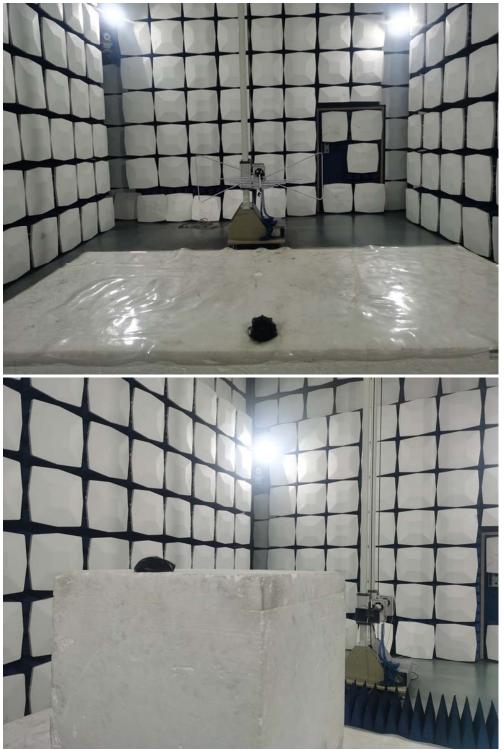
11.1 Conducted test View--



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Radiated emission test view



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11.2 Photographs – EUT



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Photographs - EUT

Outside View



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Outside view

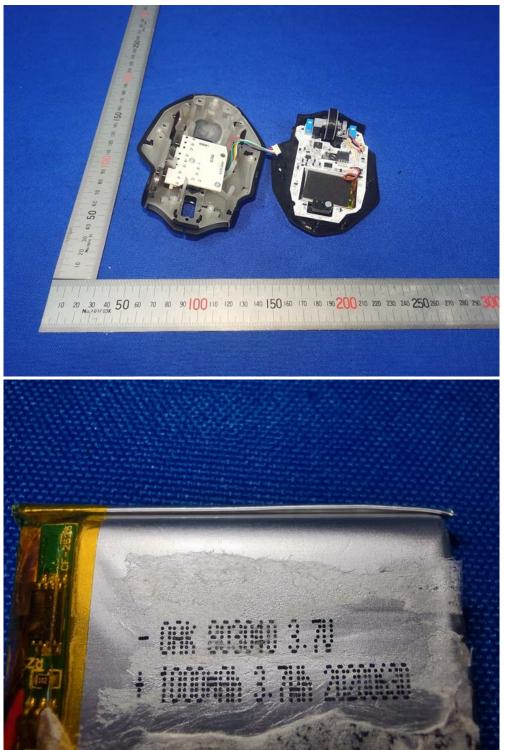


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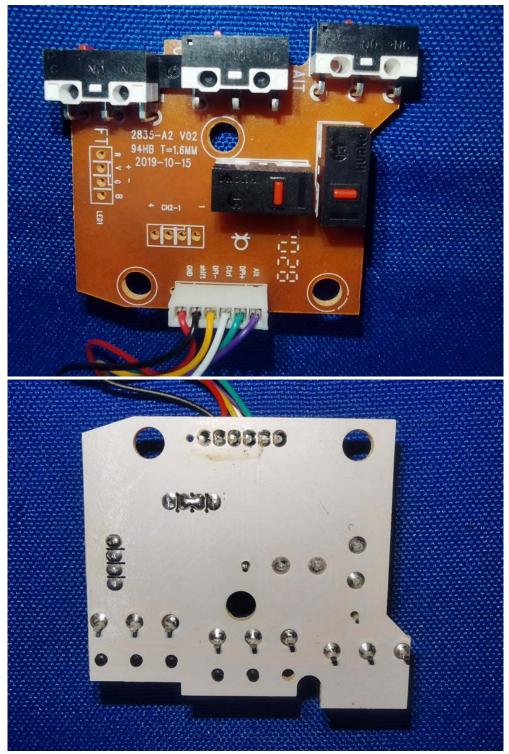
Inside view



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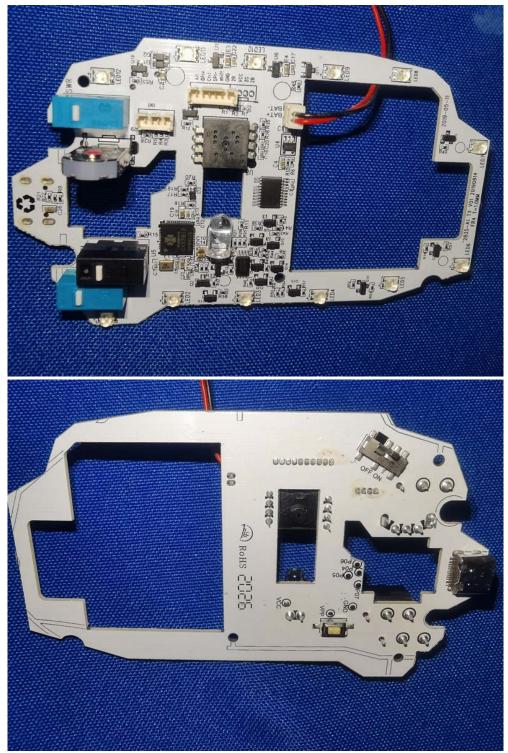
Inside view



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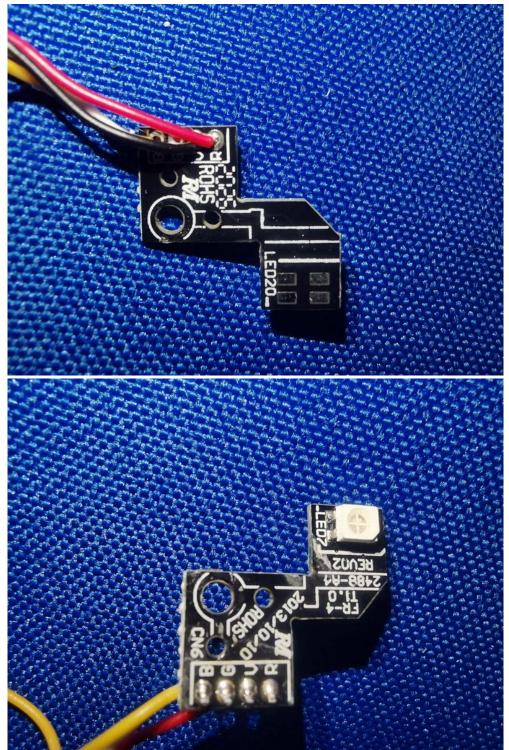
Inside view



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Inside view



--End of the report--

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