

Report No.:	TW2305025E
Applicant:	Shenzhen Star Sources Electronic Technology Co., Ltd.
Product:	Wireless Mouse
Model No.:	ST-268
Trademark:	N/A
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 Jong

Terry Tang

Manager

Dated:

June 15, 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



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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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 SatesDevice of the With the Federal Communications Commission – United Sates

Registration Number: 744189

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant:	Shenzhen Star Sources Electronic Technology Co., Ltd.
Address:	Room 2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District, Shenzhen, China
Telephone:	+86-755-86397260
Fax:	+86-755-26609516

1.3 Description of EUT

1	
Product:	Wireless Mouse
Manufacturer:	Shenzhen Star Sources Electronic Technology Co., Ltd.
Address:	Room 2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,
	Shenzhen, China
Trademark:	N/A
Model Number:	ST-268
Additional Model Name	N/A
Rating:	Input: 1.5Vdc
Battery	1pc 1.5V AA battery
Modulation Type:	GFSK
Operation Frequency:	2402-2480MHz
Channel Number:	40
Channel Separation:	2MHz
Hardware Version:	XU-3200-YZW-VER1.0
Software Version:	VER1.0
Serial No.:	17633LW100001
Antenna Designation	PCB antenna with gain 2.34dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

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1.5 Test Duration 2023-05-05 to 2023-06-15

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

Andy -Xing

The sample tested by

Print Name: Andy Xing

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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	N/A	N/A	
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

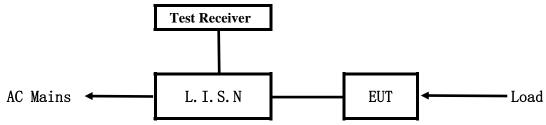
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

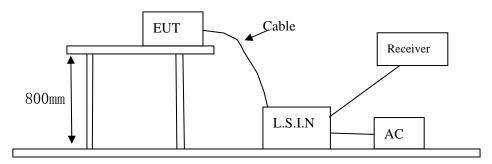


EUT: Equipment Under Test

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 500hm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: N/A

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.

A.	EUT
	-

Device	Manufacturer	Model	FCC ID
	Shenzhen Star Sources		
Wireless Mouse	Electronic Technology Co.,	ST-268	ZJEST-268
	Ltd.		

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B. Internal Device

2.				
	Device	Manufacturer	Model	FCC ID/DOC
	N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

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 (d	IB 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:

N/A

Note: EUT powered by AA battery, this test item not applicable.

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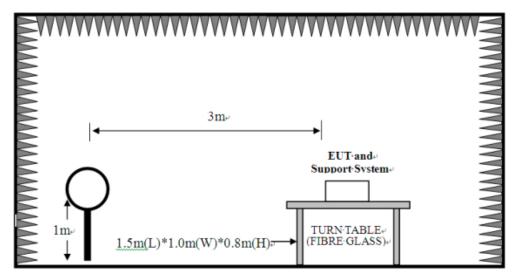


6 Radiated Emission Test

- 6.1 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) 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

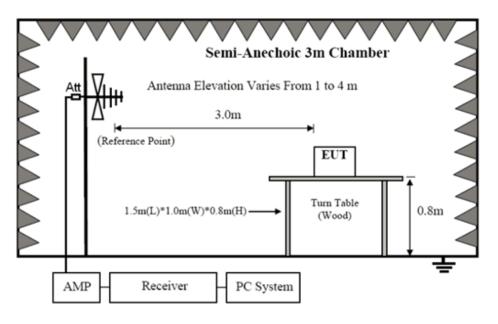


For radiated emissions from 30MHz to1GHz

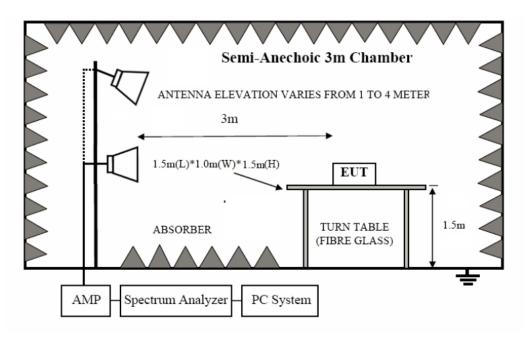
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For radiated emissions above 1GHz



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 S	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)
	1 (15 15					

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
30-80	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. 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. New battery was used during tests.

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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

Horizontal

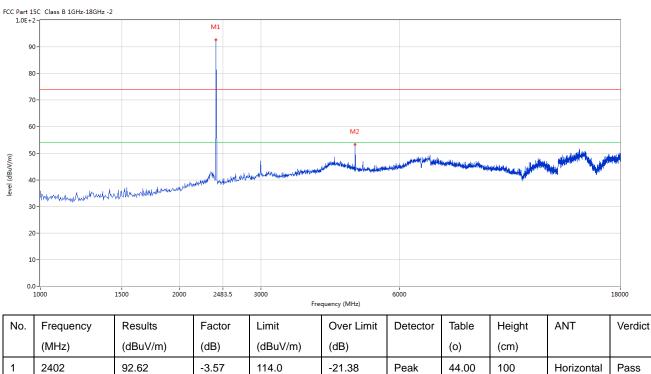
2

4802.799

53.21

3.12

74.0



-20.79

Peak

50.00

100

Horizontal

Pass

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1

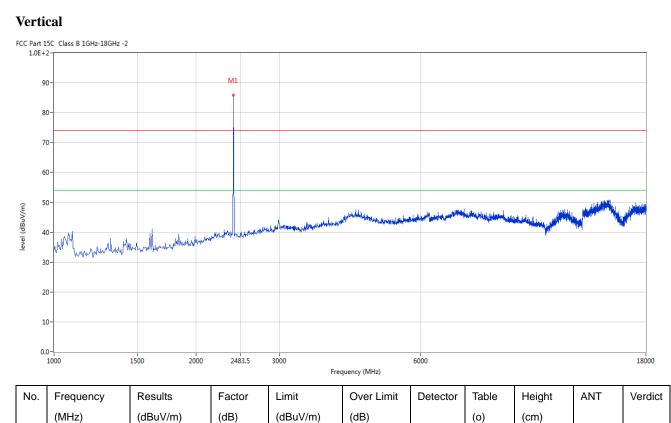
2402

86.00

-3.57

114.0





-28.00

Peak

75.00

100

Vertical

Pass

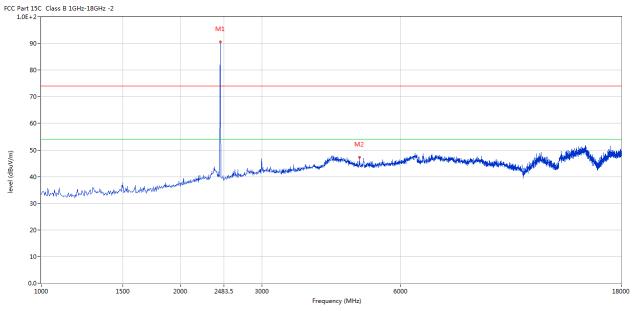
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal

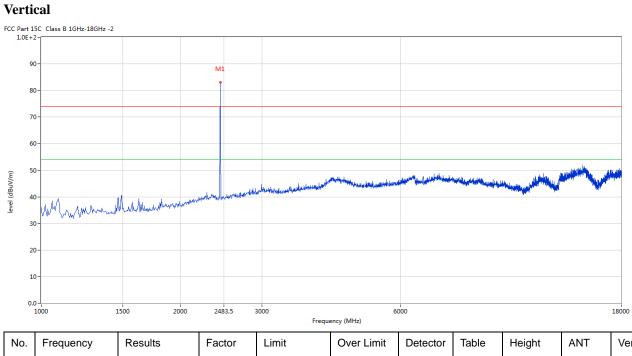


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440	90.56	-3.57	114.0	-23.44	Peak	45.00	100	Horizontal	Pass
2	4879.280	47.25	3.20	74.0	-26.75	Peak	45.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440	83.07	-3.57	114.0	-30.93	Peak	68.00	100	Vertical	Pass

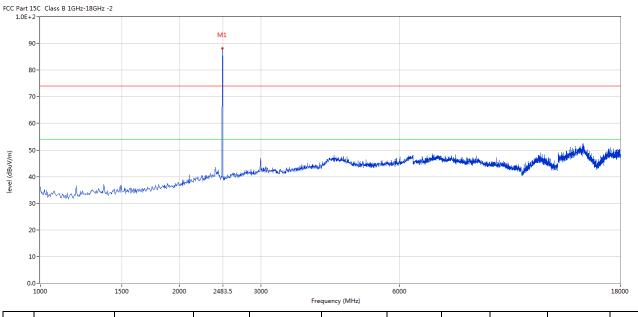
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

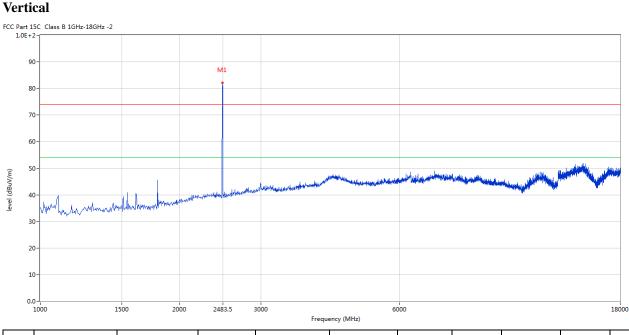


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	88.45	-3.57	114.0	-25.55	Peak	56.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	82.22	-3.57	114.0	-31.78	Peak	67.00	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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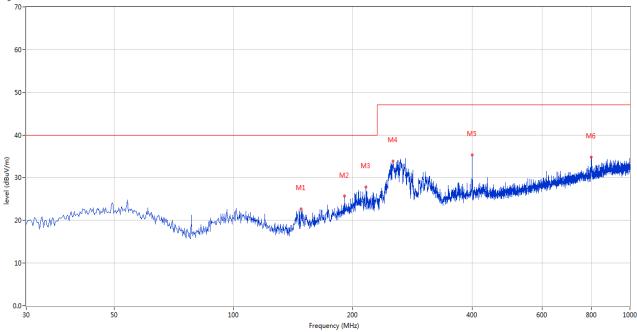
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

CE_EN 55032 Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	148.068	22.65	-17.18	40.0	-17.35	Peak	264.00	100	Horizontal	Pass
2	190.252	25.64	-14.33	40.0	-14.36	Peak	185.00	100	Horizontal	Pass
3	215.951	27.83	-13.60	40.0	-12.17	Peak	156.00	100	Horizontal	Pass
4	252.802	33.83	-12.13	47.0	-13.17	Peak	63.00	100	Horizontal	Pass
5	399.963	35.28	-8.57	47.0	-11.72	Peak	45.00	100	Horizontal	Pass
6	799.260	34.80	-2.99	47.0	-12.20	Peak	317.00	100	Horizontal	Pass

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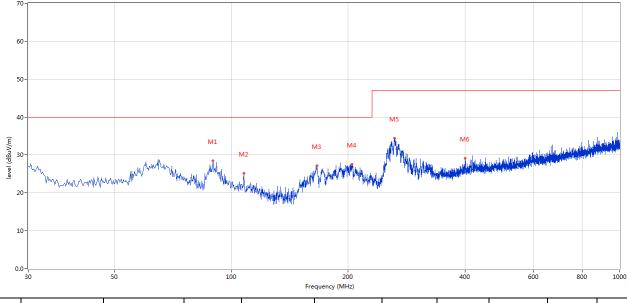
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

CE_EN 55032 Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	89.640	28.50	-15.25	40.0	-11.50	Peak	43.00	100	Vertical	Pass
2	107.823	25.18	-13.41	40.0	-14.82	Peak	22.00	100	Vertical	Pass
3	166.251	27.20	-16.07	40.0	-12.80	Peak	130.00	100	Vertical	Pass
4	204.556	27.54	-13.55	40.0	-12.46	Peak	332.00	100	Vertical	Pass
5	263.227	34.45	-11.81	47.0	-12.55	Peak	43.00	100	Vertical	Pass
6	399.478	29.12	-8.58	47.0	-17.88	Peak	56.00	100	Vertical	Pass

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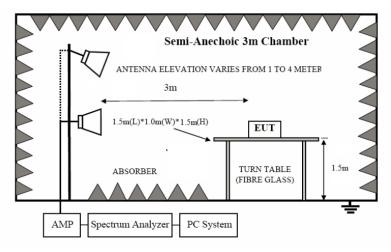


7. Band Edge

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

]	Product:		Wireless N	Mouse		Polarity		H	Iorizontal	
	Mode	Ke	eping Trar	nsmitting	Т	est Voltag	e		DC1.5V	
Te	mperature		24 deg.	С,		Humidity			56% RH	
Te	est Result:		Pass							
FCC Part 3 1.0E+ 2 5 7	15C Class B 1GHz-18GHz	-2				M4		M5 M2	Л1	
level (dBuV/m		nije do dika a na kuna se kalena po kona je do dika na po kona je do di kana po kona je do di kana po kona je d Na na	fant belen sonsten en sterke ett	htimitederi zilen dergeden keningen	henderichen Allensen einen	in, aya kesin jerapi di k				
level (dBuV/m	20	Results	Factor	Limit	Frequency (MHz)	Detector	Table	Height	ANT	2410 Verdict
level (dBu//m 5 7 0	20	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	1	Detector	Table (o)	Height (cm)	ANT	2410 Verdict
د اوبروا (dBuV/m 1 0	20- 10- 2350 Frequency				Over Limit	Detector		-	ANT	
د (dBu//m ۱ ۵ ۷	00- 00- 2350 Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	Over Limit (dB)		(o)	(cm)		Verdict
دور (dBu//m ۱ ۱ ۱ ۱ ۱ ۱	20- 10- 2350 Frequency (MHz) 2401.467	(dBuV/m) 92.01	(dB) -3.57	(dBuV/m) 74.0	Over Limit (dB) 18.01	Peak	(o) 48.00	(cm) 100	Horizontal	Verdict N/A
u/(ngp) 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00- 10- 2350 Frequency (MHz) 2401.467 2400.000	(dBuV/m) 92.01 65.23	(dB) -3.57 -3.57	(dBuV/m) 74.0 74.0	Over Limit (dB) 18.01 -8.77	Peak Peak	(o) 48.00 48.00	(cm) 100 100	Horizontal Horizontal	Verdict N/A Pass
س(/۱۹۳۹) ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ،	30- 20- 10- 2350 Frequency (MHz) 2401.467 2400.000 2400.000	(dBuV/m) 92.01 65.23 49.19	(dB) -3.57 -3.57 -3.57	(dBuV/m) 74.0 74.0 54.0	Over Limit (dB) 18.01 -8.77 -4.81	Peak Peak AV	(o) 48.00 48.00 48.00	(cm) 100 100 100	Horizontal Horizontal Horizontal	Verdict N/A Pass Pass

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]	Product:		Wireless M	Iouse	I	Detector		V	Vertical	
	Mode	Ke	eping Tran	smitting	Те	st Voltage		D	C1.5V	
Te	mperature		24 deg.	C,	H	Iumidity		50	5% RH	
Te	est Result:		Pass							
CC Part 1 1.0E+ 9 8 7 6	15C Class B 1GHz-18GHz	1					M4	M2	M1	
لارس (1970) العموا ع 2	10 - <mark>belje altere del i antibio del 10 - belje altere del 10 - be</mark>	utenne by ye of with his weeks and	<u>h Handon para Nultur p</u> ro	unantan distant katapartan nga ina sta	न २० _{१९} २०२६ से हिंद होते। होते हो रहा रहे हो है। इसके हो					Mallan i
الاسمار (מו (מו (مر المر المر المر المر المر المر المر ال	00- 200- 100- 2350 Frequency	Results	Factor	Limit	Frequency (MHz)	Detector	Table	Height	ANT	24 Verdic
4 3 2 1 0. No.	00- 20- .00- .2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)		(0)	(cm)		Verdic
4 3 2 1 0. No.	0- 0- 2350 Frequency (MHz) 2401.512	Results (dBuV/m) 85.97	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB) 11.97	Peak	(o) 75.00	(cm) 100	Vertical	Verdio N/A
4 3 2 1 0. No.	00- 20- .00- .2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)		(0)	(cm)		Verdie
A 3 2 1 0. No. 2 2 2 2 2 **	30- 20- 10- 2350 Frequency (MHz) 2401.512 2400.000	Results (dBuV/m) 85.97 62.33	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 11.97 -11.67	Peak Peak	(o) 75.00 75.00	(cm) 100 100	Vertical Vertical	Verdio N/A Pass
2 1 0.	30- 20- 10- 2350 Frequency (MHz) 2401.512 2400.000 2400.000	Results (dBuV/m) 85.97 62.33 47.31	Factor (dB) -3.57 -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Over Limit (dB) 11.97 -11.67 -6.69	Peak Peak AV	(o) 75.00 75.00 75.00	(cm) 100 100 100	Vertical Vertical Vertical	Verdio N/A Pass Pass

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	Product:		Wireless	s Mouse		Pola	rity		Horizonta	ıl
	Mode	K	Keeping Tr	ansmitting		Test Vo	oltage		DC1.5V	
Te	mperature		24 de	eg. C,		Humi	dity		56% RH	
Te	est Result:		Pa	SS						
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	z -2								
	90 -		N	м1						
	30 -									
	70 -		_/							
e	50 -		/							
		/	/		<u></u>					
	-				N					
(m/2)	50 -			M						
(iiii/anan) 4				M2			a the second state of the	la fast da birri fa figaia antique da com	k and the second sector of the second sector of the second sector of the second sector of the second s	nder kärligt förta som
u/angp) 4				M2	and the state	Haddewerk australia	an a	din Kari da landa kari saka da an	kante, angleisurinsingistika	nden kange dat sper
El/Angp) 4	10-an to to define the			M			Annes de la Maria	die keit die keinste kaar verbeerde vere	kontra ang kananang katang kanang katang kanang	nder könnö delar for
EL/Ango 4	10 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -			M.		uladoren klatuatuar	den even har	din die stad werden die stade werden verbenen die stade werden die stade werden die stade werden die stade wer	i obra englista obrasilitad	nder könne det som
EL/Ango 4	10- <mark>00-01-01-01-01-01-01-01-01-01-01-01-01-0</mark>			M:	and the state	ille et feren en fer	den nor de part star	din berde berde ber	isolte osnají kisoltanta seliten	nden kanforden som
W/Mngp 4 3 2	10 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -			M2		üliter lini an	dan oo dada da ma	in fan de konste fan seken	de de construite of montant de la construite de la construite de la construite de la construite de la construit	
evel (dBu//m 3 2 0	10 - U.S. 1. Jan 4 1 - Aut 1 4 30 - 20 - 10 - 2470			•	.5 Frequency (MHz)			din ber dan de fan d		250
4 (1000) 4 (1000) 3 2 1 0	10 - <u>115 - </u>	Results	Factor	•		Detector	Table	Height	ANT	25
W/Mngp 4 3 2	10 - U.S. 1. Jan 4 1 - Aut 1 4 30 - 20 - 10 - 2470		Factor (dB)	248:	.5 Frequency (MHz)					
4 (1000) 4 (1000) 3 2 1 0	10 - 05 10 1 20 1 20 1 20 1 20 1 20 1 20 1 2	Results		2483 Limit	1.5 Frequency (MHz) Over Limit		Table	Height		25
4 3 2 1 0 No.	10 - United and a second secon	Results (dBuV/m)	(dB)	248: Limit (dBuV/m)	1.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	25 Verdic

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_	Product:		Mouse	Ľ	Detector		Vertical						
	Mode	Ke	nsmitting	Tes	Test Voltage			DC1.5V					
Temperature 24 deg. C,					Н	umidity		% RH					
Test Result: Pass													
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2											
	90-		M1										
8	30-												
7	70-												
e	60- 												
			*	X IVI2									
(E) 5	50-	/	/	M2									
level (dBuV/m)	50 - 10 - dairphanetworth dans i rywyna ad dwlaedu	Marship and a lightly like	, 	M2	Hillishurdow	างและสุรีเอาสำคัญสายสู่เสาะหม่	info forgation and statistic data	uðanskeinski að den tillen	njenen stielen sut netigen gebr	nada da			
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level (dBuV/m 5	10 -	marker at he was here and	, 		-	iensteftenskeinigensteinertik	is the second	uð senskeikeik af den fillen	ของมางไว้เป็นของไขตัวแม่งการไม่แรงแม่ง	ring supplier			
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د (dBuV/m ع 1	10 - <mark>Jurydan (* 1997), dan (* 1999), dan (*</mark>	mande man de la la fatte la la ser	·	2483.5 Fre	equency (MHz)	an an fair an		uð senskaða skirðir sáðara döfar skirðir s	geners fielder och skille och	2500			
د (dBuV/m ع 1	10 - 20 - 20 - 20 - 10 - .0	Results	Factor			Detector	Table	Height	ANT	2500			
4 (98n//m 3 2 1 0	10 - 10 - 10 - 20 - 10 - 2470		Factor (dB)	Fre	equency (MHz)					2500			
4 (98n//m 3 2 1 0	10 - 10 - 10 - 10 - 10 - 2470 Frequency	Results		Limit	equency (MHz)		Table	Height					

Note: 1. 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. The antenna gain is 2.34dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Product:	Wireless Mouse					t Mode:		Keep transmitting			
Mode	Keeping Transmitting					t Voltage	DC1.5V				
Temperature		24 deg. C,	-		Humidity Detector		56% RH				
Test Result:		Pass						Pŀ	K		
dB Bandwidth		2.265MHz									
>	Marker	1 [T1 n	dB]	RI	ЗW	100 ki	Hz RF Att 20 dI			3	
Ref Lvl	ndB		00 dB	VI	ЗW	300 ki	Hz				
10 dBm	BW	2.264529	06 MHz	SI	νT	5 m	s U	nit	dBm	n	
10						v 1	[T1]	- 5	.14 dBm]	
								2.40150	401 GHz		
0			_			ndB		20	.00 dB	1	
				\sim		BW			906 MHz	1	
-10						▼ _{T1}	<u>[T1]</u>	-25	<u>.40 dBm</u> 273 GHz		
							[T1]		.36 dBm	0	
-20								2.40312	725 GHz	-	
1MAX	, j									11	
-30							<u> </u>			-	
							\sum				
-40							ſ			-	
-50									Le Le	-	
-60											
-70										-	
-80											
-90 Center 2.4	102 GHz		500]	kHz/				Spa	n 5 MHz	. ∐ :	

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Product:		Wireless Mouse					:	Keep transmitting			
Mode		Keeping Transmitting					e	DC1.5V			
Temperature		24 deg. C, Pass				Humidity		56% RH PK			
Test Result:						Detector					
20dB Bandwidth		2.255MHz									
R		Marker	1 [T1 r	ndB]	RBV	100 }	cHz R	F Att	20 dB		
Ref Lvl		ndB 20.00 dB			VBV						
10 dBm		BW 2	2.254509	02 MHz	SWI	5 r	ns U	nit	dBm	1 -	
10						▼1	[T1]	- 5	E.08 dBm	A	
0								2.43950	0401 GHz		
0				1		nd		20	0.00 dB		
-10				\sim	~~	BW v _T		-24	902 MHz		
-10						5		2.43887	275 GHz		
			<u>ک</u> ر			\sim	2 [T1]	-24	4.96 dBm		
-20		Ţ					T2	2.44112	2725 GHz	1MA	
-30											
	~										
-40											
									$\langle \rangle$		
-50											
-60											
-70											
-80											
-90											
Center	2.44 GH	Z		500	kHz/			Spa	an 5 MHz		
Date: 6	.JUN.20	23 10:	11:39								

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Product:	Wireless Mouse					Test Mode:		Keep transmitting			
Mode	Keeping Transmitting				Т	est Voltage		DC1.5V			
Temperature		24 deg. C,				Humidity		56% RH			
Test Result:			Pass			Detector		РК			
20dB Bandwidth	2.255MHz										
R		Marker	1 [T1 r	ndB]	RBW	100 kH	Iz RI	F Att	20 dB		
Ref Lvl		ndB		00 dB	VBW	300 kH					
10 dBm 10		BW 2	2.254509	02 MHz	SWT	5 ms	s Ui	nit	dBm	1	
10						v 1	[T1]	- 4	1.95 dBm	A	
0								2.47950	401 GHz		
Ũ						ndB BW		20 2.25450	0.00 dB		
-10			(\sim	\sim	× v _{T1}	[T1]	-24	902 MHz		
-10								2.47887	275 GHz		
			\mathcal{I}			$\nabla_{\Sigma_{2}}$	[T1]	-24	.89 dBm		
-20		Ţ					T2	2.48112	2725 GHz	1MA	
							\mathbf{X}				
-30											
	~										
-40)					ĺ				
									$\left \right\rangle$		
-50											
C 0									× 1		
-60											
70											
-70											
-80											
-90 Center 2	.48 GH2	Z		500	kHz/			Spa	an 5 MHz	9	
Date: 6	.JUN.20	23 10.	09:31								

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10.0 FCC ID Label

FCC ID: ZJEST-268

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-N/A

Radiated emission test view



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11.2

Outside View- Mouse



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Outside View-Mouse



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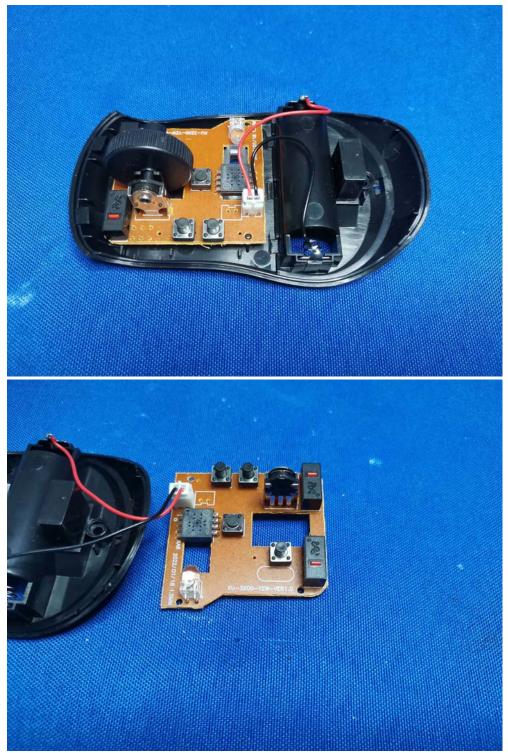
Outside View-Mouse



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Inside View-Mouse



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Inside View-Mouse



-- End of the Report--

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