

Report No.: TW2404001E

Applicant: Shenzhen SQT Electronics Co., Ltd

Product: Wireless silent Mouse

Model No.: SM-M2AG, M2AG(Purple), M2AG(Pink), M2AG(Blue),

M2AG

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 long

Terry Tang

Manager

Dated: April 15, 2024

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

## SHENZHEN TIMEWAY TESTING LABORATORIES

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

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



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## **Special Statement:**

## FCC-Registration No.: 744189

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

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

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

## **A2LA** (Certification Number:5013.01)

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

**CAB identifier: CN0033** 

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## Test Report Conclusion

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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

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

Village, Nanshan District, Shenzhen, China

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

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant: Shenzhen SQT Electronics Co., Ltd

Address: ZhengChengFeng TechnologyZone Xinsha Road,ShaYi Village, Sha jing Town, Baoan Area,

Shenzhen, China

Telephone: 0755-27568078 Fax: 0755-27568223

### 1.3 Description of EUT

Product: Wireless silent Mouse

Manufacturer: Shenzhen SOT Electronics Co., Ltd

Address: ZhengChengFeng TechnologyZone Xinsha Road,ShaYi Village, Sha jing

Town, Baoan Area, Shenzhen, China

Trademark: N/A

Model Number: SM-M2AG

Additional Model Name M2AG(Purple), M2AG(Pink), M2AG(Blue), M2AG

Rating: Input: DC1.5V, 15mA

Battery 1pc AA battery

Hardware Version: VER:1.0 Software Version: 0xE622

Serial No.: 1315EK01240401 Operation Frequency: 2402-2480MHz

Channel Number: 40
Channel Separation: 2MHz
Modulation Type: GFSK

Antenna Designation PCB antenna with gain -0.61dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 5 Samples

1.5 Test Duration

2024-04-01 to 2024-04-15

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

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	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2023-07-14	2024-07-13
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

## 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	l 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
FCC Part 15.215(c)	20dB bandwidth	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

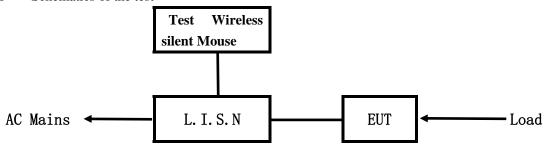
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#### 5.0 Power Line Conducted Emission Test

#### 5.1 Schematics of the test



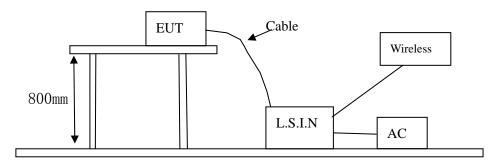
**EUT: Equipment Under Test** 

#### 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: 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.

40 channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
Wireless silent Mouse	Shenzhen SQT Electronics Co., Ltd	SM-M2AG, M2AG(Purple), M2AG(Pink), M2AG(Blue), M2AG	WOX-SM-M2AG

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#### B. Internal Device

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 (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*	
0.50 ~ 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: N/A

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

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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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

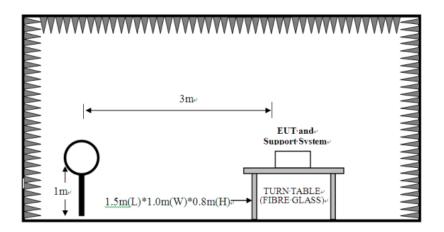
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	150KHz Quasi-peak 200Hz 600Hz		600Hz	Quasi-peak
150KHz-30MHz Quasi-peak		9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

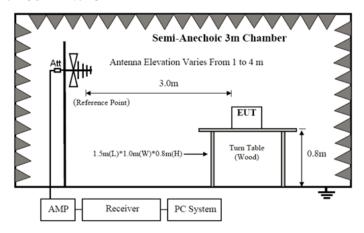


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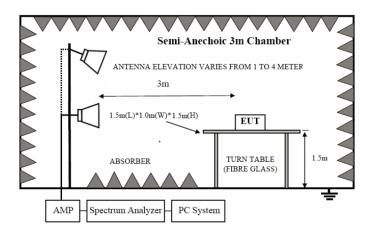
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For radiated emissions from 30MHz to1GHz



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.
- 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 Strength of Fundamental (3m)		Field Strength of Harmonics (3m)	
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m

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2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
2400-2403.3	30	74 (Average)	114 (1 Cak)	500	54 (Average)	/4 (1 cak)

Note:

- 1. RF Field Strength  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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 $\mu$ 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  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. New battery was used during the test.

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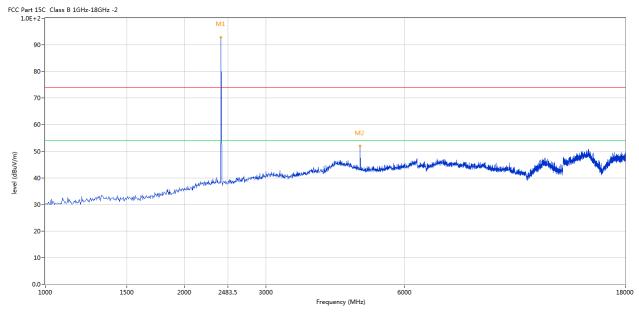


## 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



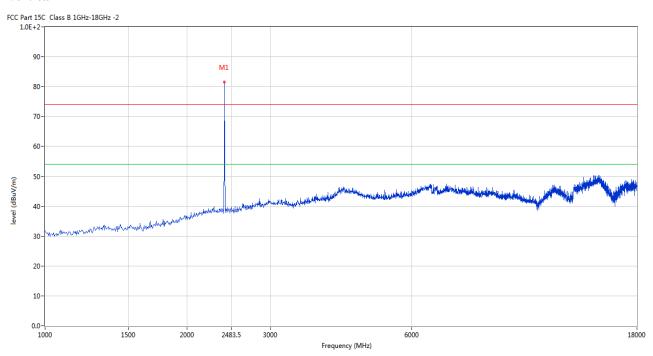
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	92.76	-3.57	114.0	-21.24	Peak	280.00	100	Horizontal	Pass
2	4802.799	51.99	3.12	74.0	-22.01	Peak	252.00	100	Horizontal	Pass

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## Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	81.46	-3.57	114.0	-32.54	Peak	192.00	100	Vertical	Pass

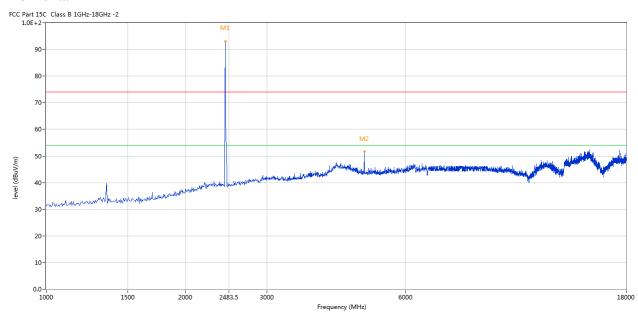
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Please refer to the following test plots for details: Middle Channel-2440MHz

#### **Horizontal**



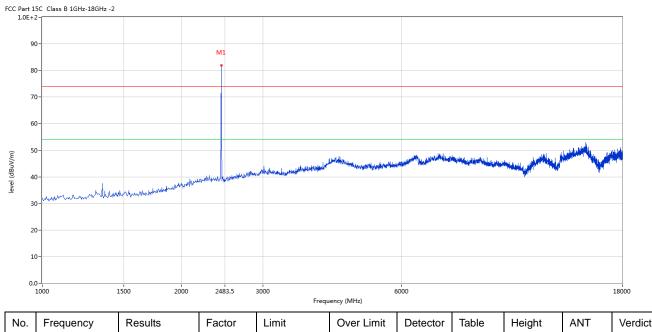
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440	92.99	-3.57	114.0	-21.01	Peak	93.00	100	Horizontal	Pass
2	4879.280	51.66	3.20	74.0	-22.34	Peak	256.00	100	Horizontal	Pass

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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	2440	81.91	-3.57	114.0	-32.09	Peak	181.00	100	Vertical	Pass

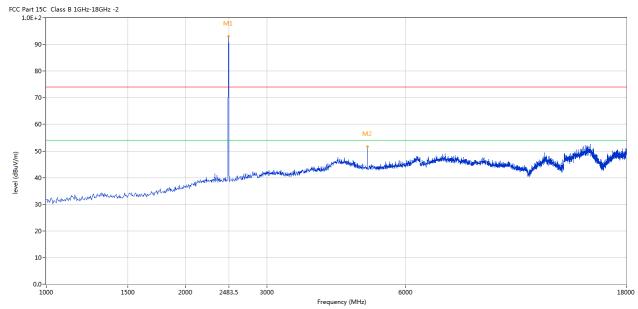
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	93.06	-3.57	114.0	-20.94	Peak	258.00	100	Horizontal	Pass
2	4960.010	51.69	3.36	74.0	-22.31	Peak	258.00	100	Horizontal	Pass

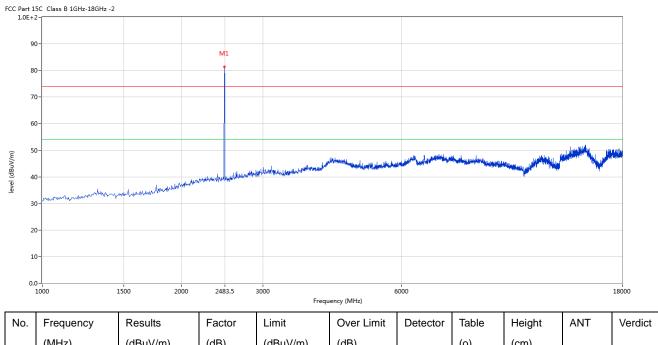
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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	81.44	-3.57	114.0	-32.56	Peak	184.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

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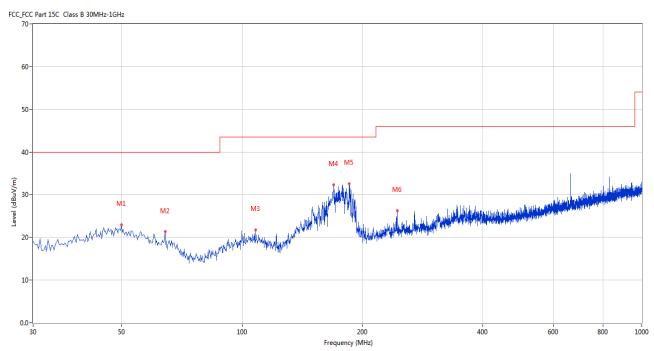


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	49.880	22.99	-11.36	40.0	17.01	Peak	43.00	100	Horizontal	Pass
2	64.184	21.29	-13.37	40.0	18.71	Peak	146.00	100	Horizontal	Pass
3	108.308	21.73	-13.43	43.5	21.77	Peak	266.00	100	Horizontal	Pass
4	169.403	32.24	-16.09	43.5	11.26	Peak	304.00	100	Horizontal	Pass
5	185.404	32.58	-14.87	43.5	10.92	Peak	304.00	100	Horizontal	Pass
6	244.316	26.27	-12.25	46.0	19.73	Peak	304.00	100	Horizontal	Pass

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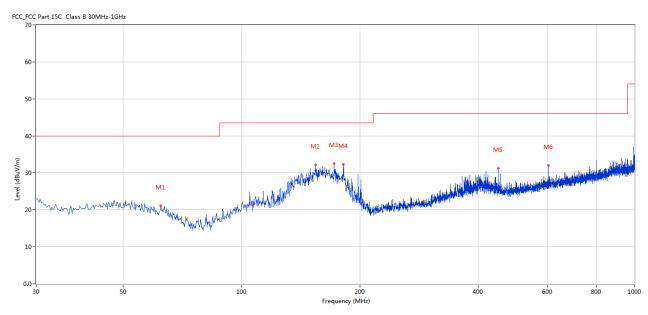


## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	62.244	21.13	-13.27	40.0	18.87	Peak	235.00	100	Vertical	Pass
2	154.129	32.13	-16.83	43.5	11.37	Peak	238.00	100	Vertical	Pass
3	172.069	32.53	-15.92	43.5	10.97	Peak	262.00	100	Vertical	Pass
4	181.767	32.25	-15.05	43.5	11.25	Peak	262.00	100	Vertical	Pass
5	450.147	31.28	-8.00	46.0	14.72	Peak	339.00	100	Vertical	Pass
6	605.066	32.00	-4.94	46.0	14.00	Peak	320.00	100	Vertical	Pass

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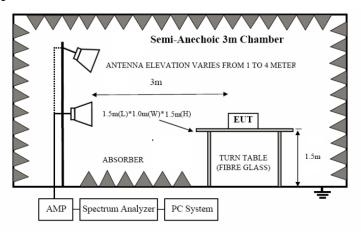


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

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

## 7. 2 Radiated Test Setup



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

## 7.3 Configuration of the EUT

Same as section 5.3 of this report

## 7.4 EUT Operating Condition

Same as section 5.4 of this report.

#### 7.5 Band Edge Limit

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

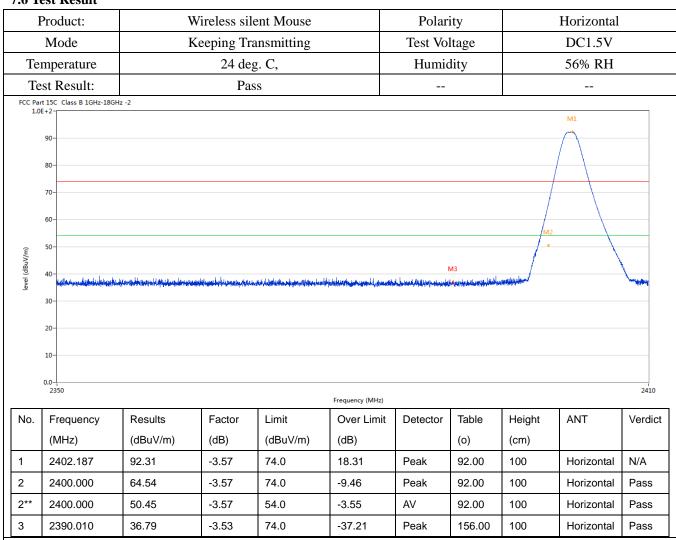
The report refers only to the sample tested and does not apply to the bulk.

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## 7.6 Test Result



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	Product:	\	Wireless sil	lent Mouse		Detect	or		Vertical	
	Mode	I	Keeping Tr	ansmitting		Test Vol	tage		DC1.5V	
Te	emperature		24 de	g. C,		Humid	ity		56% RH	
Т	est Result:		Pa	SS			-			
Part 1.0E	15C Class B 1GHz-18GHz	z -2			I		L			
!	90-								M1	
	80-									
	70-									
	60-									
									$\overline{}$	
									\ \	
!	50-							M2		
. !	40-	والمسترار والمسترار المسترار المسترار المسترار	وفرنان و مرافقة دارس منظوم السبا	ويور ومقطع والمتطور والمشابل والمطالب والموا	والمراجعة	M		M2		Maria de la Companione de
	40 -	referencia significant di propositi de la compansión de l	indicate the state of the same	n a grand the latter of the la	hidadadii ka iyotayaa Qaada kadaka			M2		· · · · · · · · · · · · · · · · · · ·
	40 - <u></u>	પ્લોનોલેન પ્રાથમિક સ્થાપની કર્યો હતા. માટા છે છે	inducidades de la companya de la co	and the state of t	hitaria and a salahi			M2		Andrew Strategy
	40 -	redrived Landschieder de April Landschiede	irokaddorana idiplaasikinin en	nn de en eige de en	hidadadha dha siyaraya a dha a dha ba			M2		and the same of th
:	40 - <u></u>	volydda. Lendu sie inwyl ffyd a'i mewdd	i okalinan sikina en	angang dalam ang katang ang katang magan	kiti ka di ka pangana ayan di ka pabila			M2		Andrew States
:	40- 	Andrea Januaria	inderlinens i diplomatica di terrescon	nagagi kaina nyahisah nadhés pagas	ini karakan saran sarah berak la			M2		A CONTRACTOR OF THE PARTY OF TH
	40- Marandi kandi kandi kandi kandi 30-	volgida. Janut silvida jaga et mendidi	i okalinan sikina en	and the second s	Frequency (MHz)			M2		
	40- ************************************	Results	Factor	Limit				M2 •	ANT	2
:	30- 20- 10- 2350				Frequency (MHz)	a final de la companya de la company	A politica de la constitución de l	de production de la constant de la c	ANT	2.
: ::	30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz)  Over Limit	a final de la companya de la company	Table	Height	ANT	2.
:	30- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)  Over Limit (dB)	Detector	Table	Height (cm)		<sup>2</sup> · Verdi
	40- 30- 20- 10- 2350 Frequency (MHz) 2401.707	Results (dBuV/m) 81.35	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz)  Over Limit (dB)  7.35	Detector Peak	Table (o) 190.00	Height (cm)	Vertical	Verdi

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]	Product:	1	Wireless s	silent Mouse		P	olarity		Horizont	al
	Mode		Keeping T	Transmitting		Test	Voltage		DC1.5V	7
Te	mperature		24 d	leg. C,		Hı	ımidity		56% RF	ł
Те	est Result:		P	'ass						
CC Part 1.0E+	15C Class B 1GHz-18GHz	r -2	M1					•		
ġ	90 -		- MI							
8	30-		$-\!\!\!/-$							
7	70-									
(	50-									
	50-			M	2					
3	٠ - ١٥ -	and another makers		•	· · · · · · · · · · · · · · · · · · ·	hadran of the last	والأران والمالية المارة الماضية	المناهما الموسات		
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	30-								ang a pad disease magaza na didi kenangan pada a d	de la light de
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2	30-						d to A to A country A		ngga phi Militagian magalan a Militagian panga a Afgala	a d dage of the many
; ;	20-				•				ngga shi kilingin majarin dalih kenye, silipani	del Libra de la comp
2	20-			248			1 Trade of Control of		nago, hili kington nagatar olikh kingtig e silyeksi	
1 0	20-	Results	Factor	248 Limit	3.5	Detector	Table	Height	ANT	2
1 0	20-		Factor (dB)	1	3.5 Frequency (MHz)					2
No.	20- 10- 2470 Frequency	Results		Limit	3.5 Frequency (MHz)		Table	Height		verdi
iana)	20- 10- 2470 Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	3.5 Frequency (MHz)  Over  Limit (dB)	Detector	Table (o)	Height (cm)	ANT	<sup>2</sup> Verdi

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	Product:	'	WIICICSS SII	ent Mouse		Detec	tor	Vertical			
	Mode	I	Keeping Transmitting				ltage		DC1.5V		
Те	mperature		24 de	g. C,		Humio	lity	56% RH			
Те	est Result:		Pa	SS							
	rt 15C Class B 1GHz-18G E+2-	Hz -2									
	90-		N	M1							
	80-										
	70-										
			/								
(M/m)	50-			M2							
level (dBuV/m)	50-	Marijanda a ilaha dadi kandi kandi kandi kandi		M2	Market and the property and the state of t	ok da da ya da	stunderhood virganised behelv	derfruitiene hat his bit sproperit	thinness the state of the state	<b>M</b> ana pa felik kilannya k	
level (dBuV/m)	40-	the suit and the design and the second		M2	And the property and the section is not	yl de in in sind de in in s	strand phase later quantity by the later	وأوالي المستوانية المستوانية والمستوانية والمستوانية والمستوانية والمستوانية والمستوانية والمستوانية والمستوانية	والمراجعة	ring an picture little server t	
level (dBuV/m)	40- 	diasinian oran industrial incapional income		M2	Mary or a province and Street and have	yl aninessione atlanta vadeina vad	tindehadiiyyayalished	elingi acelanes las delingis en de	thing and the superior of the	riga ana parigi di di diane mpi t	
level (dBuV/m)	30- 20-	Nasyukus dan tahipapinnasi bes		M2	And the property of the state o	al was no beat and the con	stindshadiingayayd ta ted	والموادية والمارية بدرية بالموادية	isiaanii sahiiyyadda whan	ning pag pag pag pag pag pag pag pag pag pa	
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	30- 20- 10-	Results	Factor		.5	Detector	Table	Height	ANT	2500	
	30 - 20 - 10 - 2470		Factor (dB)	2483.	.5 Frequency (MHz)					2500	
No.	30- 20- 10- 2470	Results		2483.	.5 Frequency (MHz)		Table	Height		2500 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 -0.61dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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#### 9.0 20dB Bandwidth Measurement

## **Test Configuration**



#### **Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

#### Limit

N/A

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## **Test Result**

Product:	Wireless silent Mouse				Test Mode:		:	Keep transmitting			
Mode	Keeping Transmitting				Test Voltage		e	DC1.5V			
Temperature		24 deg. C,				Humidity		56% RH			
Test Result:		Pass			I	Detector		P	K		
20dB Bandwidth		2.164MHz									
Ref Lvl	Delta 1 [T1]				BW Sw	100					
10 dBm		-0.30 dB 2.16432866 MHz			VBW 300 kF SWT 5 ms					n	
10						<b>▼</b> 1	[T1]	-26	1.09 dBm	<b></b>	
						_	[11]		3287 GHz	A	
0						<u></u> 1	[T1]	- (	.30 dB		
			$\langle \cdot \rangle$	<u></u>		∇ 2	[T1]	2.16432	866 MHz		
-10			1				1111	2.40200	)501 GHz		
-20		~			hy	^					
1MAX —D1 -26.4	d D	<b>₹</b>					1			1MA	
-30	a Bm						1				
	لر ا										
-40	~~~								M.		
									- Variable		
-50											
60											
-60											
-70											
, ,											
-80											
-90											
Center 2.	402 GHz		500	kHz/	_			Spa	an 5 MHz		
Date: 10.	APR.2024	15:54:39									

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Product:	Wireless silent Mouse				Test Mode:		Keep transmitting			
Mode	Keeping Transmitting				Test Voltage		DC1.5V			
Temperature	2	4 deg. C,		Humidity			56%	6 RH		
Test Result:		Pass		Detector			I	PK		
20dB Bandwidth	2.	.174MHz								
Ŕ.	Marker 1 [T1 ndB] ndB 20.00 dB			BW	100 k	Hz RF Att 20 d				
Ref Lvl				BW	300 k					
10 dBm	BW 2	2.17434870 MHz	S	WT	5 m	ms Unit		dBm		
10					<b>v</b> <sub>1</sub>	[T1]	-6	.54 dBm	A	
							2.44001	503 GHz		
0					ndI	3	20	.00 dB		
			<u>.</u>		BW ▽⊤i	5-2-2	2.17434			
-10			1	_	▼ 'I'.	[T1]	2.43892	.55 dBm 285 GHz		
		/	Ì	Ì	$oldsymbol{ abla}_{\mathrm{T}2}$	2 [T1]	-26	.20 dBm		
-20		~~~			V	<u> </u>	2.44109	719 GHz		
1MAX	TA				W	<b>T</b> 2			1MA	
-30										
	كممكر					7				
-40	v~~							\\\.		
-50										
-60										
-70										
-80										
-90										
Center 2	Center 2.44 GHz 500 l						Span 5 MHz			
Date: 10	Date: 10.APR.2024 16:33:02									

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Product:	Wireless silent Mouse					Test Mode	»:	Keep transmitting			
Mode	Keeping Transmitting					Test Voltage		DC1.5V			
Temperature		24 deg. C,				Humidity		56% RH			
Test Result:		Pass				Detector		PK			
20dB Bandwidth		2.	194MHz								
	Marker 1 [T1 ndB]			RBV	100	kHz R	F Att	20 dB			
Ref Lvl	n	dB		00 dB	VBV		kHz				
10 dBm	В	sw 2	.194388	378 MHz	SWI	. 5 1	ms U	nit	dBm	l	
10						<b>v</b> <sub>1</sub>	[T1]	-6	.53 dBm	A	
								2.48001	503 GHz	A.	
0						nd		20	.00 dB		
						BW ▼⊤		2.19438	878 MHz		
-10				/	7	* 1	'1 [T1]	2.47891			
			ك	/	`\	$\sqrt{}$	2 [T1]		.37 dBm		
-20			\			~~~~		2.48110	721 GHz		
1MAX		7	$\checkmark$				Y 2			1MA	
-30							\\ \				
4.2							7				
-40	W								Jane 1		
~~~									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
-50											
-60											
-70											
-80											
-90											
Center 2	.48 GHz			500	kHz/			Spa	n 5 MHz		
Date: 10	).APR.20	24 16	:38:49								

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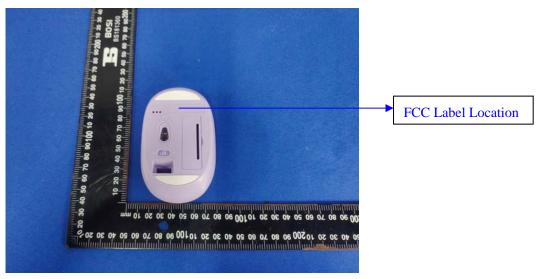


#### 10.0 FCC ID Label

#### FCC ID: WOX-SM-M2AG

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 Photographs - EUT

Outside View





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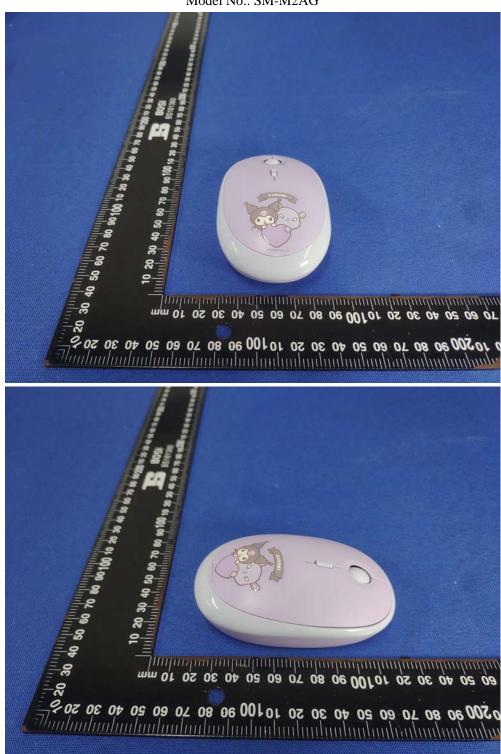
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Outside View
Model No.: SM-M2AG



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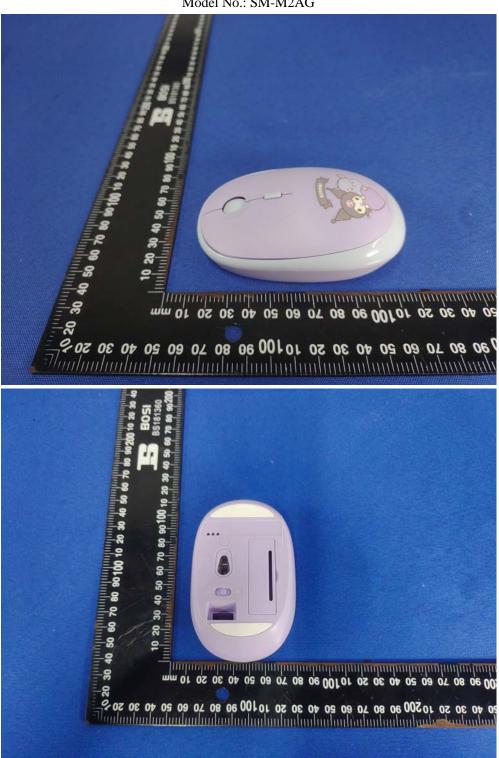
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Outside View
Model No.: SM-M2AG



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Inside View Model No.: SM-M2AG





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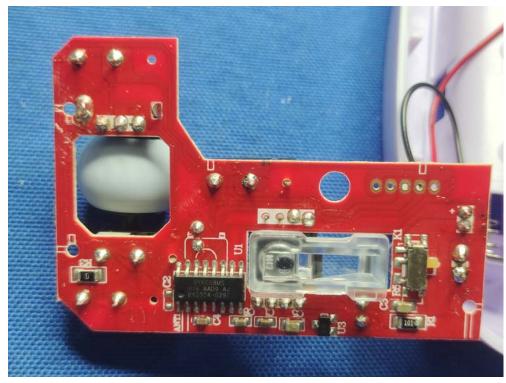
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Outside View
Model No.: M2AG(Blue)





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Date: 2024-04-15



Outside View
Model No.: M2AG(Blue)



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Outside View
Model No.: M2AG(Blue)



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Outside View Model No.: M2AG(Blue)



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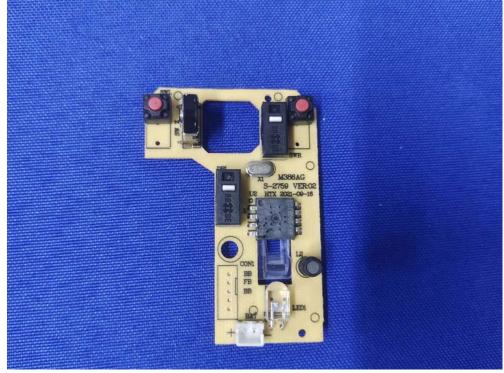
Report No.: TW2404001E

Date: 2024-04-15



Inside View Model No.: M2AG(Blue)





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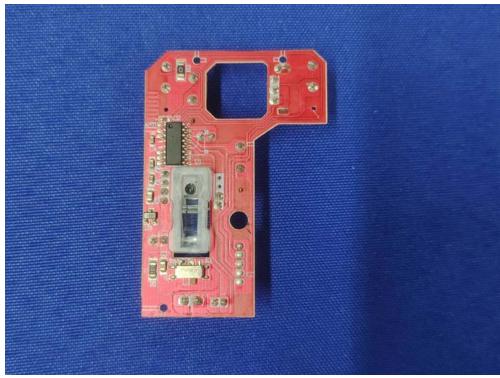
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Inside View Model No.: M2AG(Blue)



Date: 2024-04-15



Outside View
Model No.: M2AG(Pink)





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Date: 2024-04-15



Outside View
Model No.: M2AG(Pink)





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Outside View
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Outside View Model No.: M2AG(Pink)



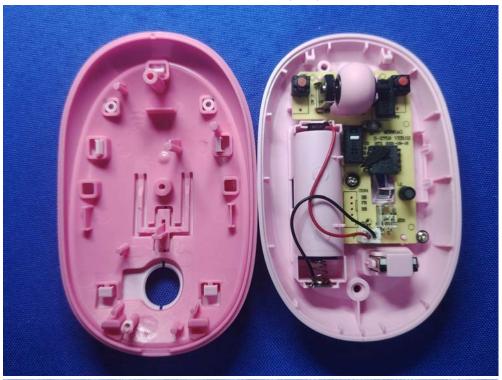
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Report No.: TW2404001E

Date: 2024-04-15



Inside View Model No.: M2AG(Pink)





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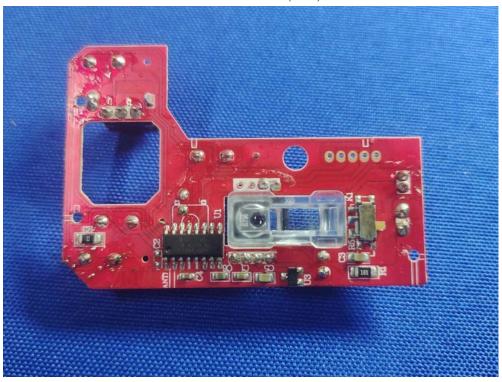
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Inside View Model No.: M2AG(Pink)



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Outside View
Model No.: M2AG(Purple)



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Report No.: TW2404001E

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Outside View
Model No.: M2AG(Purple)





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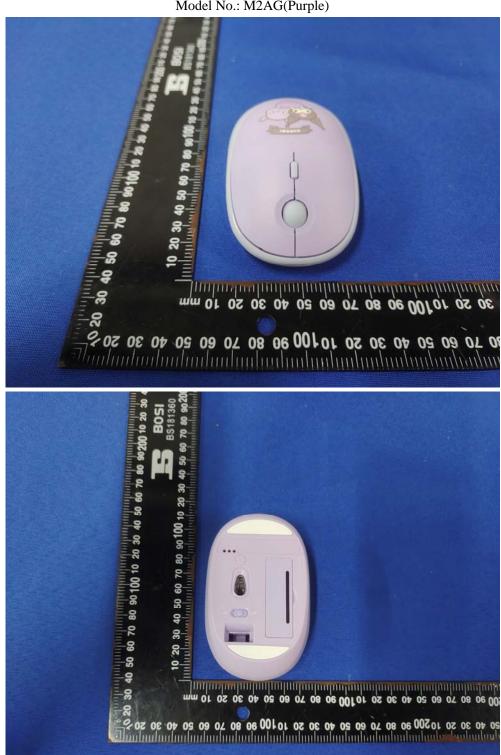
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Report No.: TW2404001E

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Outside View
Model No.: M2AG(Purple)



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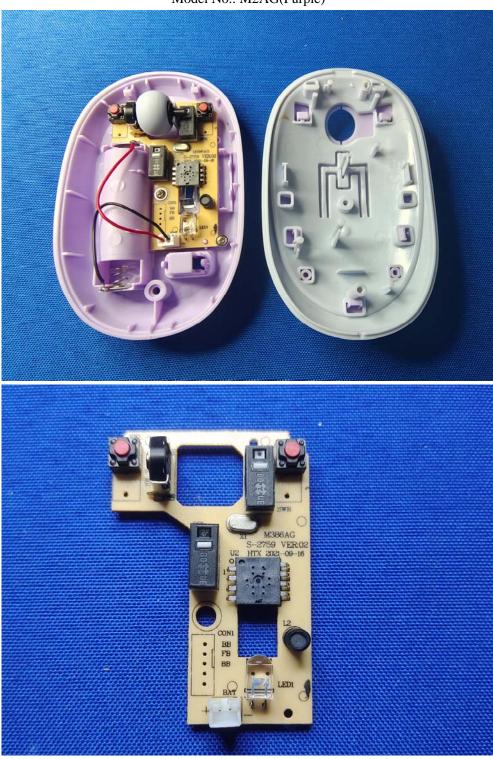
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Report No.: TW2404001E

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Inside View Model No.: M2AG(Purple)



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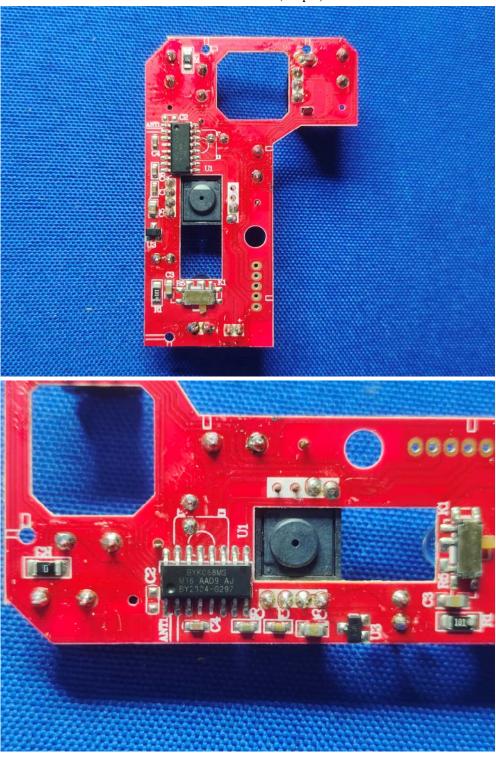
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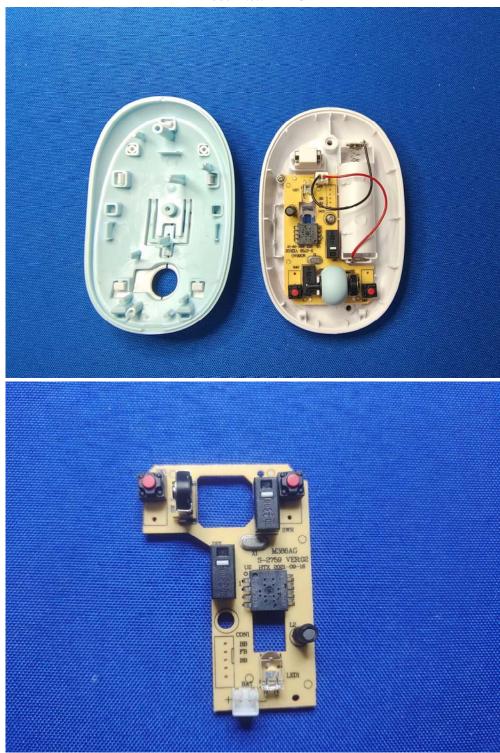
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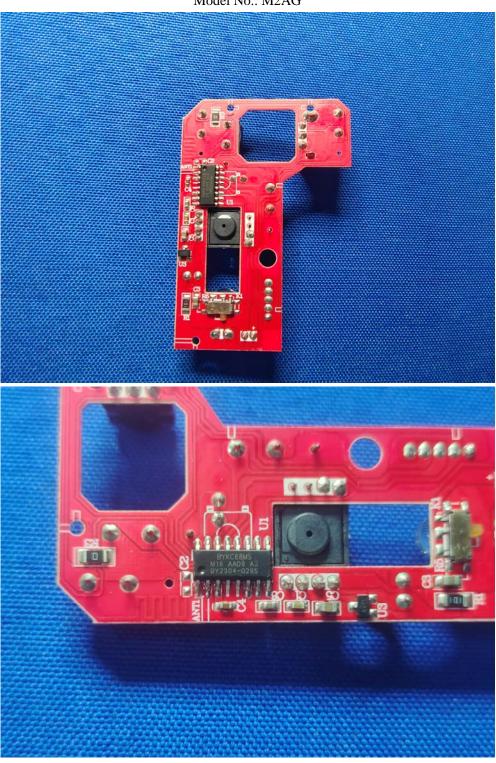
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