TEST REPORT

Report No.:	TWN2607543E
Applicant:	Eastern Times Technology Co.,Ltd
Product:	3-MODE CONNECTION WIRELESS LIGHT-WEIGHT MOUSE
Trademark:	REDRAGON
Model No.:	M919-ULT, M919W-ULT, M919OB-ULT, DS-4004, M933-ULT, M933BM-ULT, M933TF-ULT, M933CW-ULT, M933OM-ULT, DS-4205
Test Standards:	EN 55032:2015+A11:2020+A1:2020 EN IEC 61000-3-2:2019+A1:2021+A2:2024 EN 55035:2017+A11:2020 EN 61000-3-3:2013+A2:2021+AC:2022-01
Test Result:	The EMC testing has been performed on the submitted samples and found in compliance with council EMC Directive 2014/30/EU.

Approved By

Terry Tang

Terry Tang
Manager

Dated: July 20, 2026

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:

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.

ISED—Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED 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

FCC Designation Number: CN1251

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1.0 General Details

1.1 Test Lab Details

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: +86 755 83448688 Fax: +86 755 83442996

Test Location

All tests were performed 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: +86 755 83448688 Fax: +86 755 83442996

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.
Manufacturer:	Eastern Times Technology Co.,Ltd
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

1.3 Description of EUT

Product:	3-MODE CONNECTION WIRELESS LIGHT-WEIGHT MOUSE
Trademark:	REDRAGON
Model Number:	M919-ULT
Adding Trademark:	N/A
Adding Model Number:	M919W-ULT, M919OB-ULT, DS-4004, M933-ULT, M933BM-ULT, M933TF-ULT, M933CW-ULT, M933OM-ULT, DS-4205
Rating:	Input: DC5V, 300mA or DC3.7V, 19mA
Battery:	DC3.7V, 400mAh Li-ion battery

Note: This is an addition test report based on original one: TWN2605545E. Some additional models are added, but the sample remains the same.

1.4 Submitted Sample(s)

2 Samples

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1.5 Test Duration

Date of Receipt of Application: May 18, 2026

Date of Test: May 18, 2026 ~ June 08, 2026

1.6 Additional information of EUT

	Submitted	Not Available
User Manual	☒	☐
Part List	☐	☐
Circuit Diagram	☒	☐
Printed circuit board	☒	☐
[PCB] Layout		
Block Diagram	☐	☐

1.7 Test Engineer

The sample(s) tested by Leo. Lau

Print Name: Leo Lau/ Engineer

This test report is not valid without personnel's signatures of SHENZHEN TIMEWAY TESTING LABORATORIES.

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS 30	834115/006	RS	2026.07.08	1Year
LISN	NNB42	00012	SCHAFFNER	2026.07.08	1Year

2.2 Radiated Disturbance Test

Name	Model No	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESPI 3	100379	RS	2026.07.08	1Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2026.07.08	1Year
Amplifier	BBV9743	#218	HP/Agilent	2026.07.08	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2025.07.17	3Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2025.07.17	3Year
Amplifier	8449B	3008A00160	HP/Agilent	2026.07.08	1Year
6dB Attenuator	MP721B	--	Anritsu	2026.07.08	1Year

2.3 Harmonic & Flicker Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Harmonics Flicker Test System	PACS-1	72305	CI	2026.07.08	1Year
5K VA AC Power Source	5001iX	56060	CI	2026.07.08	N/A

2.4 ESD Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
ESD Simulator	ESS-2002	ESS06Y6394	NoiseKen	2026.07.08	1Year

2.5 RF field Strength Susceptibility

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Signal Generator	SMT03	100059	RS	2026.07.08	1Year
Power Meter	NRVS	---	RS	2026.07.08	1Year

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Voltage Probe	URV5-Z2	100012	RS	2026.07.08	1Year
Voltage Probe	URV5-Z2	100013	RS	2026.07.08	1Year
Power Amplifier	150W1000	300999	AR	2026.07.08	1Year
Power Amplifier	25S1G4AM1	305993	AR	2026.07.08	1Year
Field Probe	CBL6111C	2576	Holaday	2026.07.08	1Year
Bilog Antenna	MCDC	---	Chase	2026.07.08	1Year

2.6 Electrical Fast Transient/Burst (EFT/B) Immunity test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EFT Generator	UCS 500 M4	0304-42	EM TEST	2026.07.08	1Year
Power Source	MV2616	0104-14	EM TEST	2026.07.08	1Year

2.7 Surge Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Ultra Compact Simulator	UCS 500 M4	0304-42	EM TEST	2026.07.08	1Year
Power Source	MV2616	0104-14	EM TEST	2026.07.08	1Year

2.8 Conducted Immunity Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Continuous Wave Simulator	CWS 500C	0407-05	EM TEST	2026.07.08	1 Year

2.9 Power-frequency Magnetic Field

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Continuous Wave Simulator	UCS 500 M4	0304-42	EM TEST	2026.07.08	1 Year
Power Source Network	MV 2616	0104-14	EM TEST	2026.07.08	1 Year
Current Transformer	MC2630	--	EM TEST	2026.07.08	1 Year
Magnetic Coil	MS100	0304-42	EM TEST	2026.07.08	1 Year

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2.10 Voltage Dips/Interruption Immunity Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Ultra Compact Simulator	UCS 500 M4	0304-42	EM TEST	2026.07.08	1Year
Power Source	MV2616	0104-14	EM TEST	2026.07.08	1Year

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3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] & Electromagnetic Susceptibility [EMS] tests for CE Marking

3.2 Test Standards

Test Standards		
EN 55032:2015+A11:2020+A1:2020	Electromagnetic compatibility of multimedia equipment - Emission Requirements	
EN IEC 61000-3-2: 2019+A1:2021+A2:2024	Electromagnetic compatibility(EMC)- Part 3-2:Limits-Limits for harmonic current emissions(equipment input current ≤16A per phase)	
EN 61000-3-3:2013 +A2:2021+AC:2022-01	Electromagnetic compatibility (EMC)- Part 3-3: Limits-Limitation of voltage changes, Voltage fluctuations and flicker in public low-voltage supply systems. For equipment with rated current ≤ 16A per phase and not subject to conditional connection	
EN 55035:2017+A11:2020	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
	EN 61000-4-2:2009	Electrostatic discharge
	EN IEC 61000-4-3:2020	RF electromagnetic field disturbances
	EN 61000-4-4:2012	Electrical Fast transients
	EN 61000-4-5:2014	Surge
	EN 61000-4-6:2014	Conducted susceptibility
	EN 61000-4-8:2010	Power-frequency Magnetic Field
	EN IEC 61000-4-11: 2020	Dips/Voltage Interruption Variation

3.3 Performance Criteria

Criterion	Description
A	No change in operational mode or degradation of performance outside of specification and no change in stored parameters.
B	Degradation of performance allowed during the test the EUT returning to intended operation after the test.
C	Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls.

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3.4 Test standards and Results Summary Tables

Test Condition	Test Requirement	Test Method	Test Result
EMISSION Results Summary			
Conducted Emission on AC Mains, 150kHz to 30MHz	EN 55032:2015 +A11:2020+A1:2020	EN 55032:2015 +A11:2020+A1:2020	Pass
Conducted Emission on at telecommunication ports, 150kHz to 30MHz	EN 55032:2015 +A11:2020+A1:2020	EN 55032:2015 +A11:2020+A1:2020	N/A
Radiated Emissions, 30MHz to 6GHz	EN 55032:2015 +A11:2020+A1:2020	EN 55032:2015 +A11:2020+A1:2020	Pass
Harmonic Emissions on AC supply	EN IEC 61000-3-2: 2019+A1:2021+A2:2024	EN IEC 61000-3-2: 2019+A1:2021+A2:2024	N/A
Voltage fluctuations on AC supply	EN 61000-3-3:2013 +A2:2021+AC:2022-01	EN 61000-3-3:2013 +A2:2021+AC:2022-01	N/A
IMMUNITY Results Summary			
Electrostatic Discharge	EN 55035:2017+A11:2020	EN 61000-4-2: 2009	Pass
Continuous RF electromagnetic field disturbances	EN 55035:2017+A11:2020	EN IEC 61000-4-3:2020	Pass
Continuous induced RF disturbances	EN 55035:2017+A11:2020	EN 61000-4-6:2014	Pass
Power frequency magnetic field	EN 55035:2017+A11:2020	EN 61000-4-8: 2010	N/A
Electrical fast transients/burst (EFT/B)	EN 55035:2017+A11:2020	EN 61000-4-4: 2012	Pass
Surges	EN 55035:2017+A11:2020	EN 61000-4-5: 2014	Pass
Voltage dips and interruptions	EN 55035:2017+A11:2020	EN IEC 61000-4-11: 2020	Pass
Broadband impulsive conducted disturbances	EN 55035:2017+A11:2020	EN 61000-4-6:2014	N/A

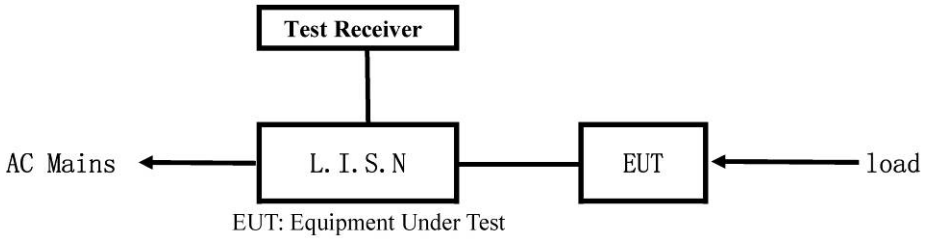
Note: N/A-Not applicable

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4.0 Electromagnetic Interference Test results

4.1 Power line Conducted Emission Test

4.1.1 Schematics of the test

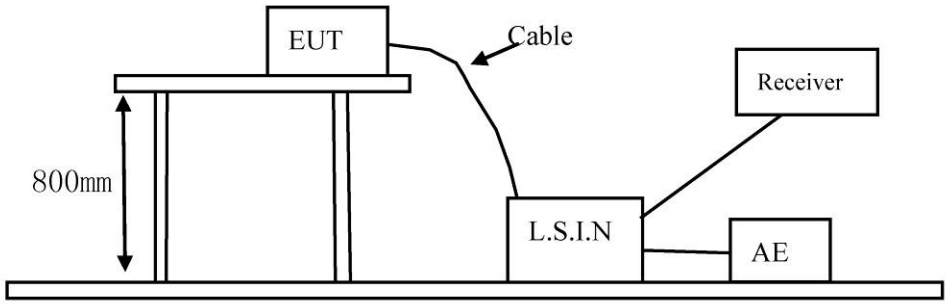


EUT: Equipment Under Test

4.1.2 Test Method:

The test was performed in accordance with EN 55032:2015+A11:2020+A1:2020

Block diagram of Test setup



4.1.3 Power line conducted Emission Limit

Frequency(MHz)	Limits dB(μ V)			
	Class A Equipment		Class B Equipment	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ～ 0.50	79.0	66.0	66.0～56.0*	56.0～46.0*
0.50 ～ 5.00	73.0	60.0	56.0	46.0
5.00 ～ 30.00	73.0	60.0	60.0	50.0

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

2. The lower limit shall apply at the transition frequencies

4.1.4 Test Results

Limits for Conducted Emission test, please refer to limit line (Quasi-peak) and Average in the following diagram labelled as (QP)&AV

Remark: Calculated measurement uncertainty=3.6dB

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A: Disturbance Voltage Limits at mains on Live terminals (150kHz to 30MHz)

EUT Operating Environment

Temperature: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

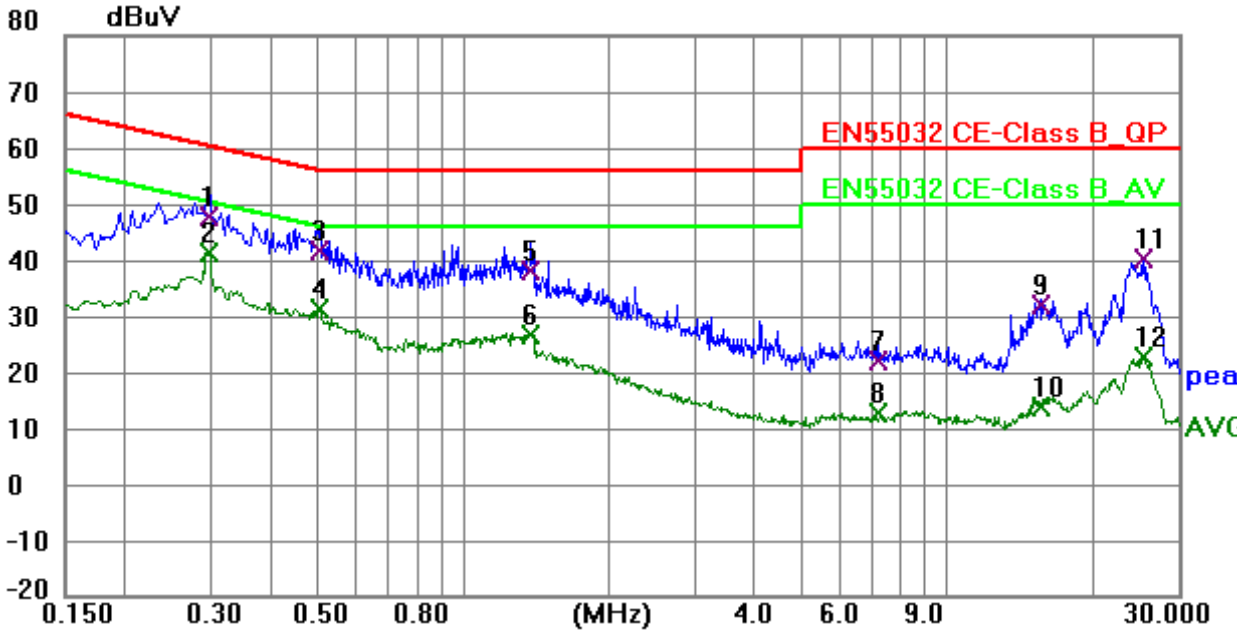
EUT set Condition: Wired Operation Mode

Power: AC230V/50Hz

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2971	37.36	10.20	47.56	60.32	-12.76	QP	P
2	0.2971	31.20	10.20	41.40	50.32	-8.92	AVG	P
3	0.5060	31.10	10.38	41.48	56.00	-14.52	QP	P
4	0.5060	20.99	10.38	31.37	46.00	-14.63	AVG	P
5	1.3779	27.84	10.32	38.16	56.00	-17.84	QP	P
6	1.3779	16.31	10.32	26.63	46.00	-19.37	AVG	P
7	7.2220	11.72	10.21	21.93	60.00	-38.07	QP	P
8	7.2220	2.44	10.21	12.65	50.00	-37.35	AVG	P
9	15.5660	21.45	10.43	31.88	60.00	-28.12	QP	P
10	15.5660	3.39	10.43	13.82	50.00	-36.18	AVG	P
11	25.3900	29.86	10.44	40.30	60.00	-19.70	QP	P
12	25.3900	12.11	10.44	22.55	50.00	-27.45	AVG	P

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B: Disturbance Voltage Limits at mains on Neutral terminals (150kHz to 30MHz)

EUT Operating Environment

Temperature: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

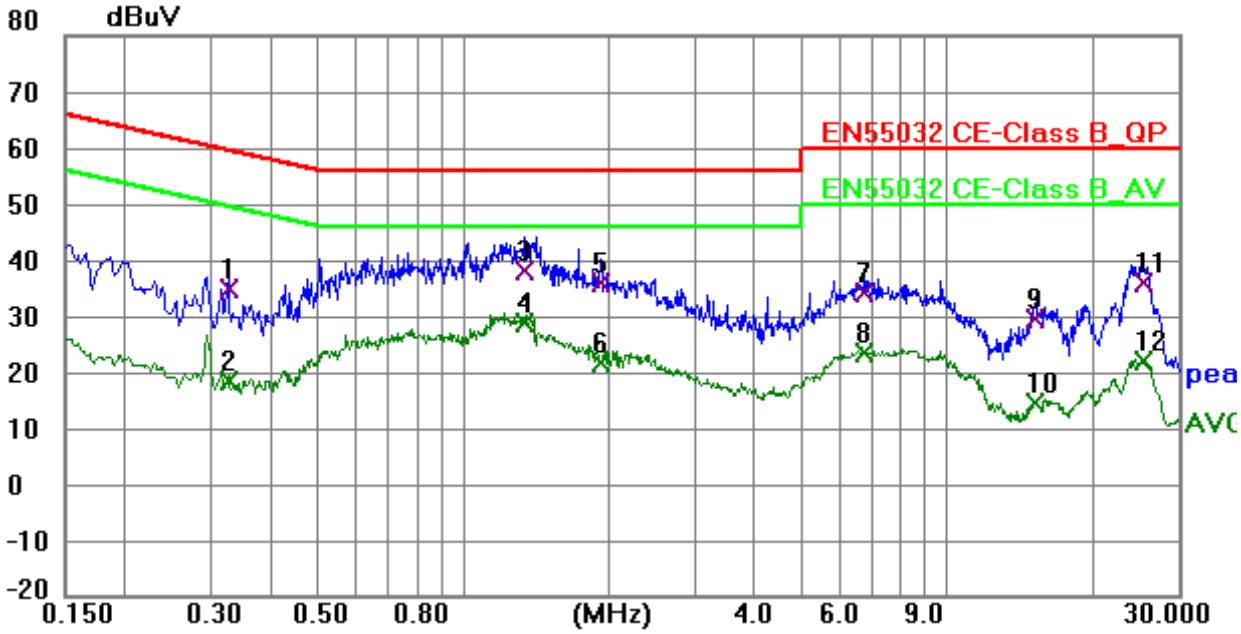
EUT set Condition: Wired Operation Mode

Power: AC230V/50Hz

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

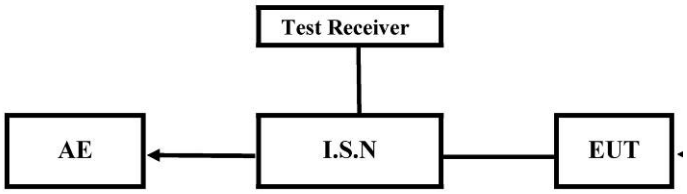


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3260	24.76	10.23	34.99	59.55	-24.56	QP	P
2	0.3260	8.31	10.23	18.54	49.55	-31.01	AVG	P
3	1.3420	27.81	10.32	38.13	56.00	-17.87	QP	P
4	1.3420	18.47	10.32	28.79	46.00	-17.21	AVG	P
5	1.9220	25.85	10.20	36.05	56.00	-19.95	QP	P
6	1.9220	11.53	10.20	21.73	46.00	-24.27	AVG	P
7	6.7460	24.03	10.21	34.24	60.00	-25.76	QP	P
8	6.7460	13.27	10.21	23.48	50.00	-26.52	AVG	P
9	15.1700	18.87	10.43	29.30	60.00	-30.70	QP	P
10	15.1700	4.18	10.43	14.61	50.00	-35.39	AVG	P
11	25.4020	25.36	10.44	35.80	60.00	-24.20	QP	P
12	25.4020	11.62	10.44	22.06	50.00	-27.94	AVG	P

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4.2 Telecommunication ports Conducted Emission Test

4.2.1 Schematics of the test

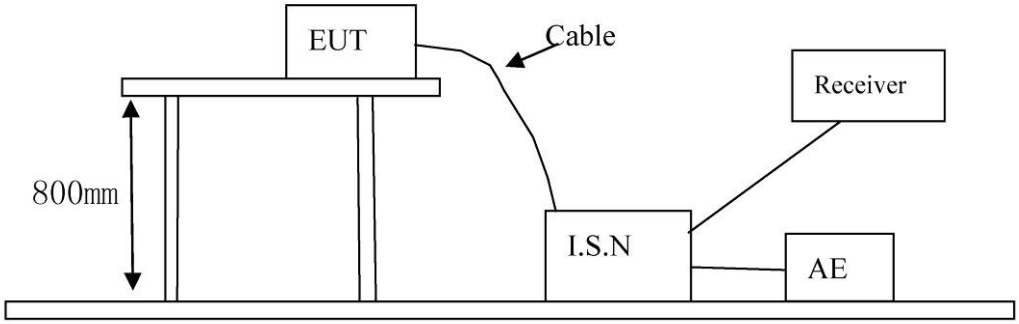


EUT: Equipment Under Test

4.2.2 Test Method:

The test was performed in accordance with EN 55032:2015+A11:2020+A1:2020

Block diagram of Test setup



4.2.3 Telecommunication ports conducted Emission Limit

Frequency (MHz)	Class A Limits				Class B Limits			
	Quasi-peak Level		Average Level		Quasi-peak Level		Average Level	
	Voltage dB(uV)	Current dB(uA)	Voltage dB(uV)	Current dB(uA)	Voltage dB(uV)	Current dB(uA)	Voltage dB(uV)	Current dB(uA)
0.15 ~ 0.50	97 to 87	53 to 43	87 to 74	40 to 30	84 to 74	40 to 30	74 to 64	30 to 20
0.50 ~ 30.00	87	43	74	30	74	30	64	20

Notes: 1.*decreasing linearly with logarithm of frequency.
2.The tighter limit shall apply at the transition frequencies

4.2.4 Test Results: N/A

Limits for Conducted Emission test, please refer to limit line (Quasi-peak) and Average in the following diagram labelled as (QP)&AV

Remark:

Calculated measurement uncertainty=1.9dB

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A: Conducted Emission on Telecommunication port (150kHz to 30MHz)

EUT Operating Environment

Temperature: 25℃ Humidity: 75 %RH Atmospheric Pressure: 101 kPa

EUT set Condition: Normal operation mode

Equipment Level: Class B

Results: N/A

Please refer to following diagram for individual

Frequency (MHz)	Port	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average

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B: Conducted Emission on Telecommunication port (150kHz to 30MHz)

EUT Operating Environment

Temperature: 25℃ Humidity: 75 %RH Atmospheric Pressure: 101 kPa

EUT set Condition: Normal operation mode

Equipment Level: Class B

Results: N/A

Please refer to following diagram for individual

Frequency (MHz)	Port	Reading(dBμA)		Limit(dBμA)	
		Quasi-peak	Average	Quasi-peak	Average

Note: This test item is not applicable because there is no telecommunication port

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4.3 Radiated Disturbance Test

4.3.1 Schematics of the test

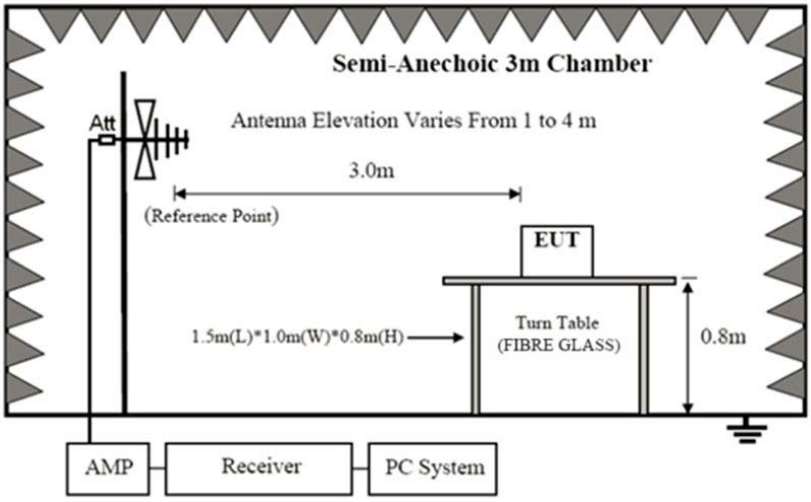


EUT: Equipment Under Test

4.3.2 Test Method:

The test was performed in accordance with EN 55032:2015+A11:2020+A1:2020

Block diagram of Test setup



4.3.3 Radiated Disturbance Test Limit

Frequency Range (MHz)	Quasi-Peak limits (dB μ V/m)	
	Class A Limits	Class B Limits
30-230	50.00	40.00
230-1000	57.00	47.00
1000-3000	56(AV)/76(PK)	50(AV)/70(PK)
3000-6000	60(AV)/80(PK)	54(AV)/74(PK)

Note: The lower limit shall apply at the transition frequencies

4.3.4 Test result

Limits for Radiated Disturbance test, please refer to limit line (Quasi-peak) in the following diagram labelled as (QP)

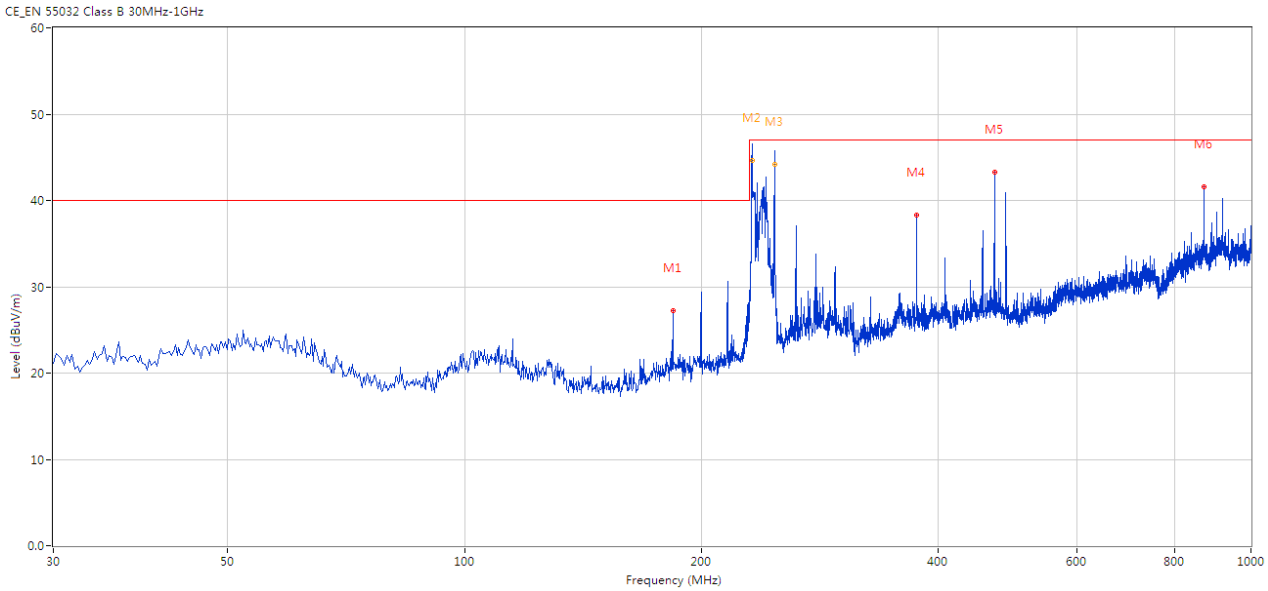
Remark:

Calculated measurement uncertainty=4.7dB

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A: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE3	Test Time:	2026-05-21_14.28.22
EUT Name:	3-MODE CONNECTION WIRELESS LIGHT-WEIGHT MOUSE	Test Engineer:	BETTY
Manufacturer:	Eastern Times Technology Co.,Ltd	Test Standard:	EN 55032
Model:	M919-ULT	Work Addition:	Wired Operation Mode
Temp.(℃):	25	Load:	
Hum.:	65%	Test Voltage:	DC5V

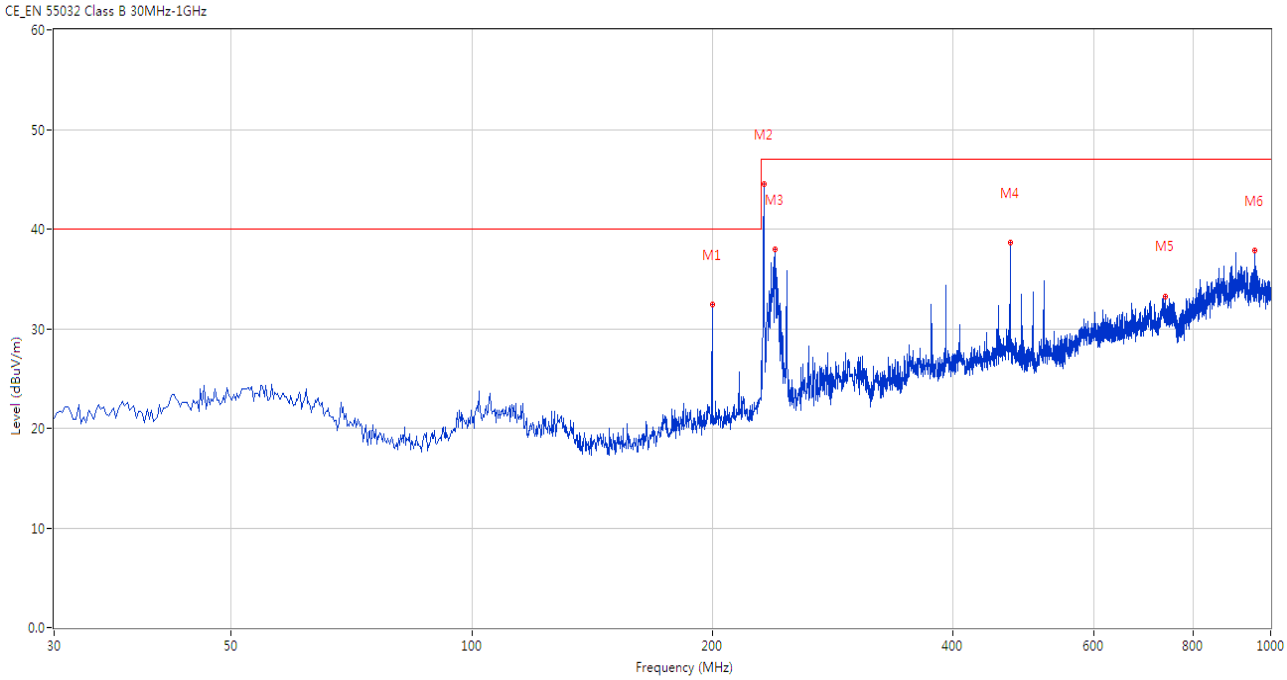


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	183.949	27.21	-10.70	40.0	12.79	Peak	352.00	100	Horizontal	Pass
2*	231.952	44.68	-8.86	47.0	2.32	QP	308.00	100	Horizontal	Pass
3*	247.953	44.15	-8.72	47.0	2.85	QP	136.00	100	Horizontal	Pass
4	375.961	38.27	-5.20	47.0	8.73	Peak	238.00	100	Horizontal	Pass
5	471.967	43.23	-3.66	47.0	3.77	Peak	360.00	100	Horizontal	Pass
6	871.992	41.59	2.39	47.0	5.41	Peak	251.00	100	Horizontal	Pass

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B: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE3	Test Time:	2026-05-21_14.25.06
EUT Name:	3-MODE CONNECTION WIRELESS LIGHT-WEIGHT MOUSE	Test Engineer:	BETTY
Manufacturer:	Eastern Times Technology Co.,Ltd	Test Standard:	EN 55032
Model:	M919-ULT	Work Addition:	Wired Operation Mode
Temp.(℃):	25	Load:	
Hum.:	65%	Test Voltage:	DC5V

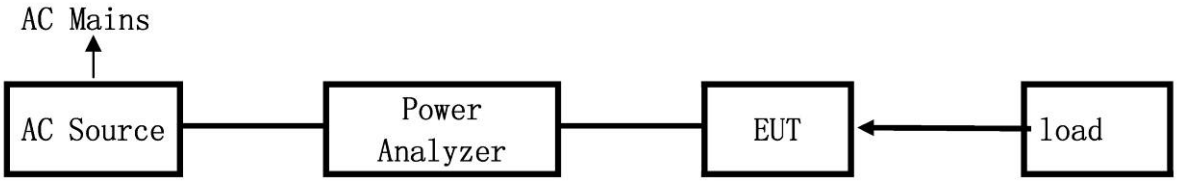


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	199.950	32.38	-10.72	40.0	7.62	Peak	265.00	100	Vertical	Pass
2	231.952	44.53	-8.86	47.0	2.47	Peak	290.00	100	Vertical	Pass
3	239.953	37.99	-8.94	47.0	9.01	Peak	32.00	100	Vertical	Pass
4	471.967	38.64	-3.66	47.0	8.36	Peak	328.00	100	Vertical	Pass
5	737.923	33.25	-0.06	47.0	13.75	Peak	270.00	100	Vertical	Pass
6	954.421	37.84	1.78	47.0	9.16	Peak	251.00	100	Vertical	Pass

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4.4 Harmonic Current Emission Test

4.4.1 Schematic of the test

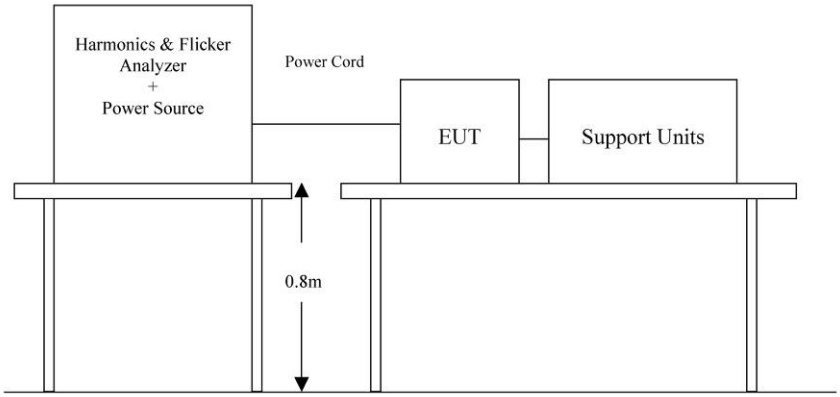


EUT: Equipment Under Test

4.4.2 Test Method:

The test was performed in accordance with EN IEC 61000-3-2:2019+A1:2021+A2:2024

Block diagram of Test setup



4.4.3 Limits of Harmonic Current Emission For Class A

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Harmonic order n	Maximum permissible harmonic current A
Odd harmonics	
3	2,30
5	1,14
7	0,77
9	0,40
11	0,33
13	0,21
$15 \leq n \leq 39$	$0,15 \frac{15}{n}$
Even harmonics	
2	1,08
4	0,43
6	0,30
$8 \leq n \leq 40$	$0,23 \frac{8}{n}$

4.4.4 Test Results

Please refer to the following pages

Harmonic Current Emission Test

EUT Operating Environment

Temperature: 25℃ Humidity: 53%RH Atmospheric Pressure: 101 kPa

EUT set Condition:

Results: N/A

N/A ---the input power less than 75W.

Please refer to following diagram for individual

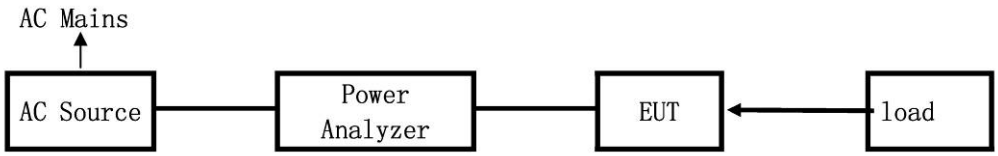
Harmonic results as a% of the limits

No	(Test result/Limit) %	No	(Test result/Limit) %	No	(Test result/Limit) %	No	(Test result/Limit) %
1		11		21		31	
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

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4.5 Voltage Fluctuations &Flicker Test

4.5.1 Schematic of the test

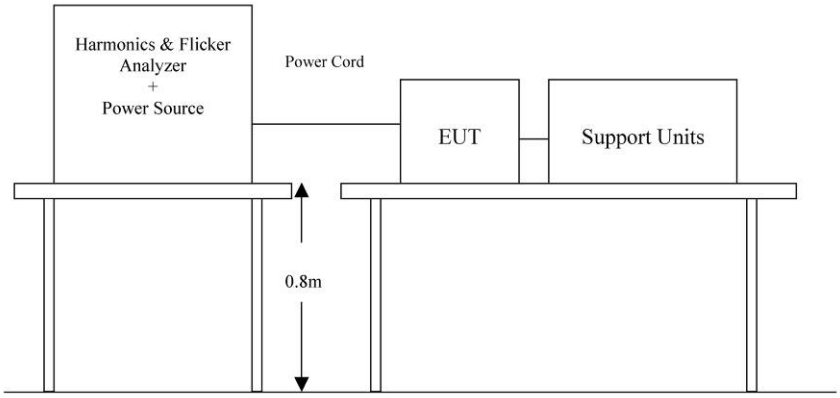


EUT: Equipment Under Test

4.5.2 Test Method:

The test was performed in accordance with EN 61000-3-3:2013+A2:2021+AC:2022-01

Block diagram of Test setup



4.5.3 Test Results

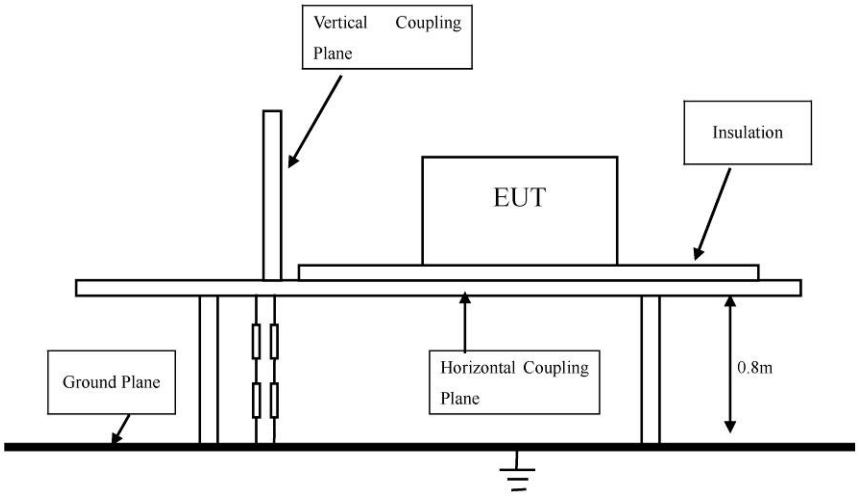
Result: **N/A**

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5.0 Immunity Test

5.1 Electrostatic Discharge

5.1.1 Schematic of the test



5.1.2 Test method

The test was performed in accordance with EN 61000-4-2: 2009

5.1.3 Test severity

±4kV for direct & in-direct Contact Discharge

±8kV for air Discharge

Performance Criterion Require: **B** (Please see following table)

5.1.4 Susceptibility performance Criteria and Severity level

Criterion	Description
A	No change in operational mode or degradation of performance outside of specification and no change in stored parameters.
B	Degradation of performance allowed during the test the EUT returning to intended operation after the test.
C	Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls.

Severity Level

Level	Test Voltage Direct & in-direct contact Discharge (kV)	Test Voltage Air discharge(kV)
1	±2kV	±2kV
2	±4kV	±4kV
3	±6kV	±8kV
4	±8kV	±15kV

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5.1.5 Test Result

EUT Operating Environment

Temperature: 25℃ Humidity: 53%RH Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

Location	Discharge Method	Test Voltage	Results
HCP (Horizontal coupling plane)	In-Direct	±2kV,±4kV	Pass
VCP (Vertical Coupling Plane)	In-Direct	±2kV,±4kV	Pass
Screws	Contact Discharge	±2kV,±4kV	Pass
Type-C Port	Contact Discharge	±2kV,±4kV	Pass
Enclosure	Air Discharge	±2kV,±4kV,±8kV	Pass
Keys	Air Discharge	±2kV,±4kV,±8kV	Pass
Wheel	Air Discharge	±2kV,±4kV,±8kV	Pass
Switch	Air Discharge	±2kV,±4kV,±8kV	Pass

Remark: Calculated measurement uncertainty= 0.2kV

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5.2 RF field strength susceptibility (80MHz-1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz)

5.2.1 Schematics of the test



EUT: Equipment Under Test

5.2.2 Test Method:

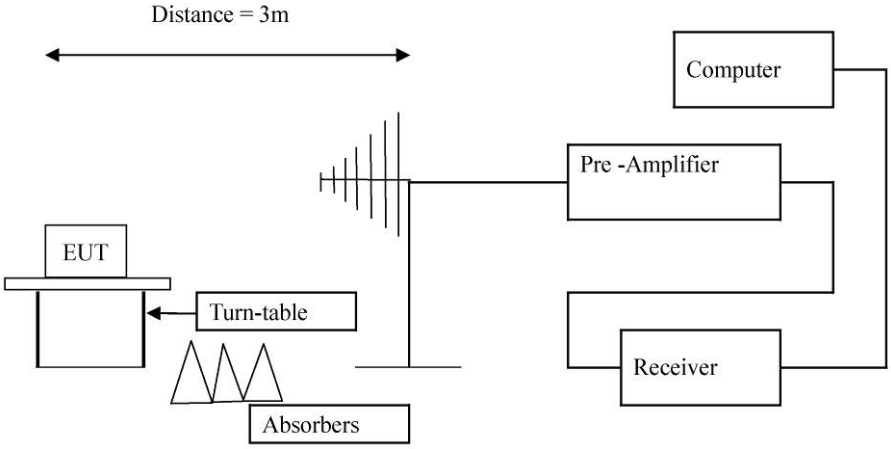
The test was performed in accordance with EN IEC 61000-4-3:2020

Severity: Level 2 (3V/m)

Modulation: 80% AM

Performance Criterion Require: A (Please see following table)

Block diagram of Test setup



5.2.3 Susceptibility performance Criteria and severity Level

Susceptibility performance Criteria

Criterion	Description
A	No change in operational mode or degradation of performance outside of specification and no change in stored parameters.
B	Degradation of performance allowed during the test the EUT returning to intended operation after the test.
C	Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls.

Severity Level

Level	Field Strength (V/m)
1	1
2	3
3	10

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5.2.4 Test Result:

EUT Operating Environment

Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

Frequency (MHz)	Face	Polarity	Level (V/m)	Dwell Time(s)	Sweep Rate (%)	Results
80-1000	0°	Horizontal	3	1	1	Pass
80-1000	90°	Horizontal	3	1	1	Pass
80-1000	180°	Horizontal	3	1	1	Pass
80-1000	270°	Horizontal	3	1	1	Pass
80-1000	0°	Vertical	3	1	1	Pass
80-1000	90°	Vertical	3	1	1	Pass
80-1000	180°	Vertical	3	1	1	Pass
80-1000	270°	Vertical	3	1	1	Pass
1800, 2600, 3500, 5000	0°	Horizontal	3	1	1	Pass
	90°	Horizontal	3	1	1	Pass
	180°	Horizontal	3	1	1	Pass
	270°	Horizontal	3	1	1	Pass
1800, 2600, 3500, 5000	0°	Vertical	3	1	1	Pass
	90°	Vertical	3	1	1	Pass
	180°	Vertical	3	1	1	Pass
	270°	Vertical	3	1	1	Pass

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5.3 Electrical Fast Transient/Burst (EFT/B) immunity test

5.3.1 Schematics of the test



EUT: Equipment Under Test

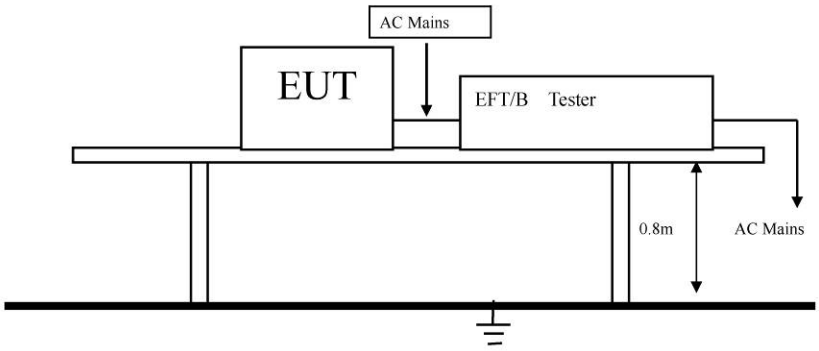
5.3.2 Test Method

The test was performed in accordance with EN 61000-4-4:2012

Severity: Level 2 (1kV)

Performance Criterion Require: **B** (Please see following table)

Block diagram of Test setup



5.3.3 Susceptibility performance Criteria and Severity Level

Criterion	Description
A	No change in operational mode or degradation of performance outside of specification and no change in stored parameters.
B	Degradation of performance allowed during the test the EUT returning to intended operation after the test.
C	Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls.

Severity Level

Open Circuit output Test Voltage ±10%		
Level	On power Supply Lines	On I/O (Input/output) Signal data and control lines
1	0.5kV	0.5kV
2	1kV	1kV
3	2kV	2kV
4	4kV	4kV
X	Special	Special

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5.3.4 Test Results

EUT Operating Environment

Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

Inject location: AC mains

Inject Line	Voltage kV	Inject Times (s)	Method	Results
L	±1	120	Direct	Pass
N	±1	120	Direct	Pass
L-N	±1	120	Direct	Pass

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5.4 Surge test

5.4.1 Schematics of the test



EUT: Equipment Under Test

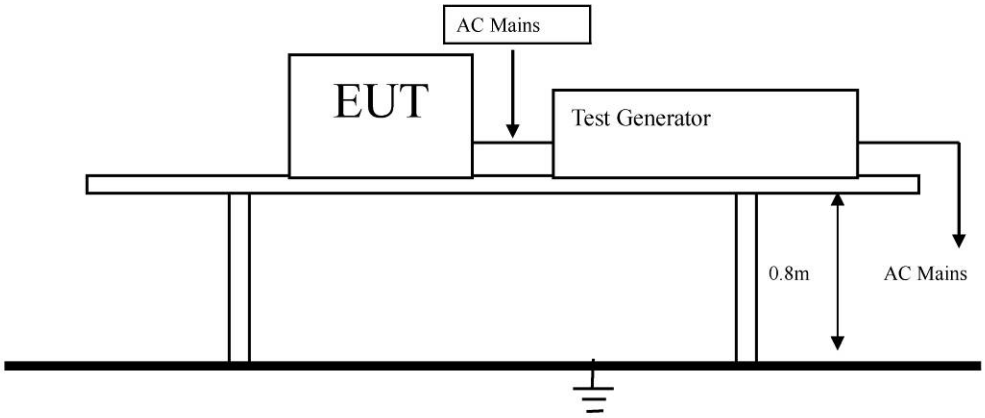
5.4.2 Test Method:

The test was performed in accordance with EN 61000-4-5:2014

Severity: Level 2 (Line to Neutral at 1kV)

Performance Criterion Require: B (Please see following table)

Block diagram of Test setup



5.4.3 Susceptibility performance Criteria and Severity Level

Susceptibility performance Criteria

Criterion	Description
A	No change in operational mode or degradation of performance outside of specification and no change in stored parameters.
B	Degradation of performance allowed during the test the EUT returning to intended operation after the test.
C	Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls.

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Severity Level

Severity Level	Open-Circuit Test Voltage kV
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

5.4.4 Test Results

EUT Operating Environment

Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

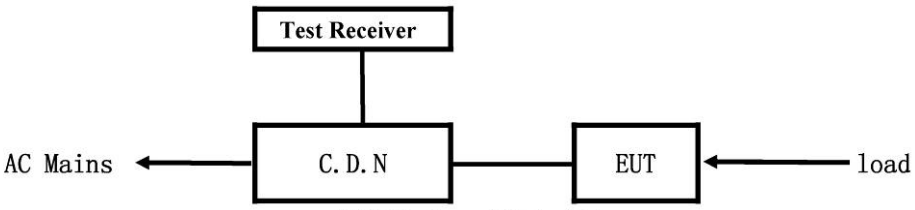
Test location:

Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage(kV)	Results
L-N	+	90	5	1.0	Pass
	-	270	5	1.0	Pass

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5.5 Conducted Immunity test

5.5.1 Schematics of the test



EUT: Equipment Under Test

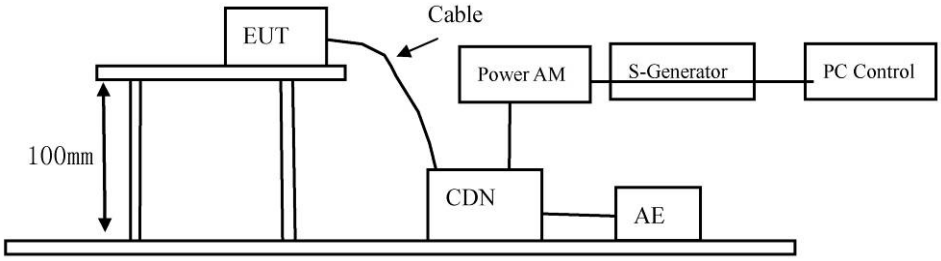
5.5.2 Test Method

The test was performed in accordance with EN 61000-4-6:2014

Severity: Level 2 (3 V rms),0.15MHz—80MHz

Performance Criterion Require: A (Please see following table)

Block diagram of Test setup



5.5.3 Susceptibility performance Criteria and Severity Level

Susceptibility performance Criteria

Criterion	Description
A	No change in operational mode or degradation of performance outside of specification and no change in stored parameters.
B	Degradation of performance allowed during the test the EUT returning to intended operation after the test.
C	Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls.

Severity Level

Severity Level	Voltage Level (e.m.f) V
1	1
2	3
3	10
*	Special

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5.5.4 Test Results:

EUT Operating Environment

Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

Please refer to the following table for individual results.

Frequency Range (MHz)	Injected Position	Strength	Criterion	Result
0.15 - 10	AC Line	3V (rms)	A	Pass
10 - 30	AC Line	3 to 1V (rms)	A	Pass
30 - 80	AC Line	1V (rms)	A	Pass

Note: the amplitude of a test level varies over a given frequency range, it changes linearly with respect to the logarithm of the frequency

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5.6 Power-Frequency magnetic field test

5.6.1 Schematics of the test



EUT: Equipment Under Test

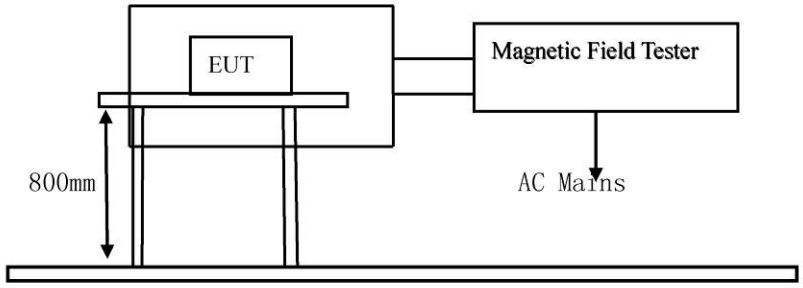
5.6.2 Test Method

The test was performed in accordance with EN 61000-4-8:2010

Severity: Level 1 (1A/m),

Performance Criterion Require: A (Please see following table)

Block diagram of Test setup



5.6.3 Susceptibility performance Criteria and Severity Level

Susceptibility performance Criteria

Criterion	Description
A	No change in operational mode or degradation of performance outside of specification and no change in stored parameters.
B	Degradation of performance allowed during the test the EUT returning to intended operation after the test.
C	Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls.

Severity Level

Severity Level	Magnetic Field Strength A/m
1	1
2	3
3	10
4	30
5	100
*	Special

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5.6.4 Test Results:

EUT Operating Environment

Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

Test Level	Testing Duration	Coil Orientation	Criterion	Result
1A/m	5 Mins	X	A	N/A
1A/m	5 Mins	Y	A	N/A
1A/m	5 Mins	Z	A	N/A

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5.7 Voltage Dips/Interruptions immunity test

5.7.1 Schematics of the test



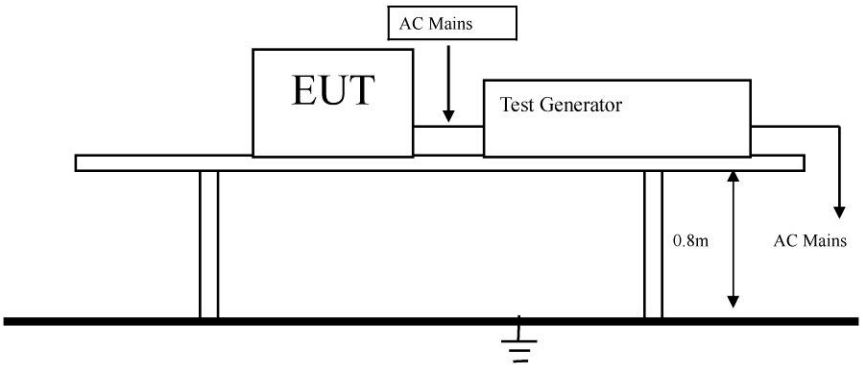
EUT: Equipment Under Test

5.7.2 Test Method:

The test was performed in accordance with EN IEC 61000-4-11: 2020

Performance Criterion Require: C&B (Please see following table)

Block diagram of Test setup



5.7.3 Susceptibility performance Criteria and Severity Level

Susceptibility performance Criteria

Criterion	Description
A	No change in operational mode or degradation of performance outside of specification and no change in stored parameters.
B	Degradation of performance allowed during the test the EUT returning to intended operation after the test.
C	Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls.

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Severity Level

Voltage Dip	Test Level %Ut	Reduction	Duration (Periods)	Performance Criteria
	<5	>95	0.5	B
	70	30	25	C
Voltage Interceptions	Test Level %Ut	Reduction	Duration (Periods)	Performance Criteria
	<5	>95	250	C

5.7.4 Test Result:

EUT Operating Environment

Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

Voltage Dip:

Test Level % Ut	Reduction	Duration (periods)	Phase Angle	Meet Criterion	Result
0	100	0.5	0° - 360°	B	Pass
70	30	25	0° - 360°	C	Pass

Voltage Interceptions:

Test Level % Ut	Reduction	Duration (periods)	Phase Angle	Meet Criterion	Result
0	100	250	0° - 360°	C	Pass

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6.0 Product Labelling

6.1 CE Mark label specification

Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.

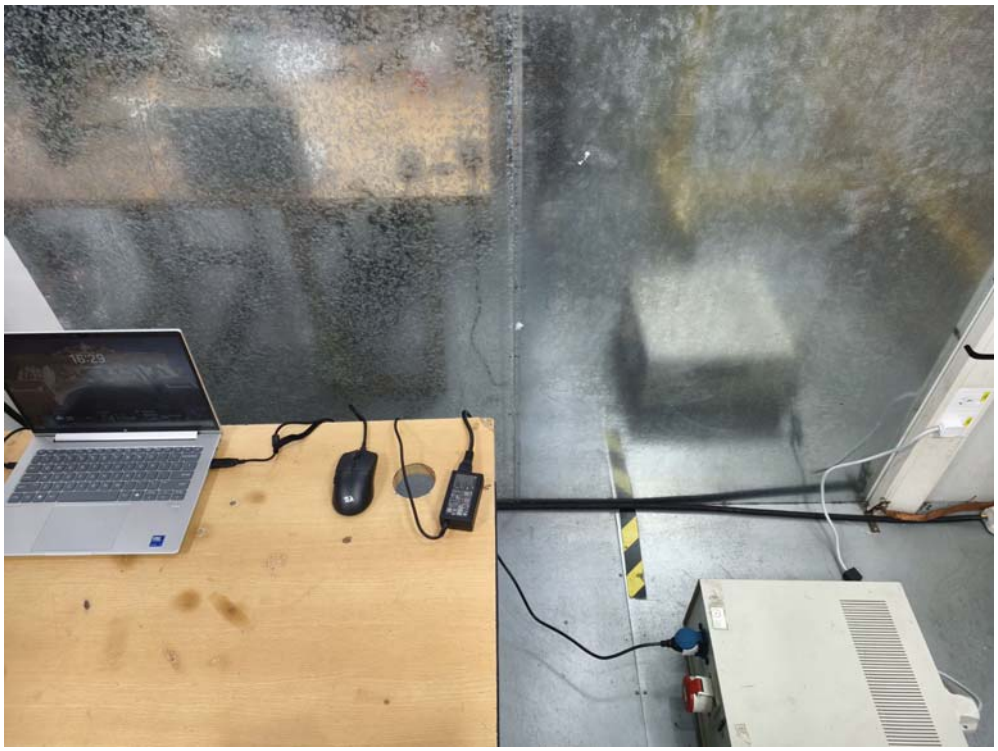


6.2 Mark Location: Rear enclosure

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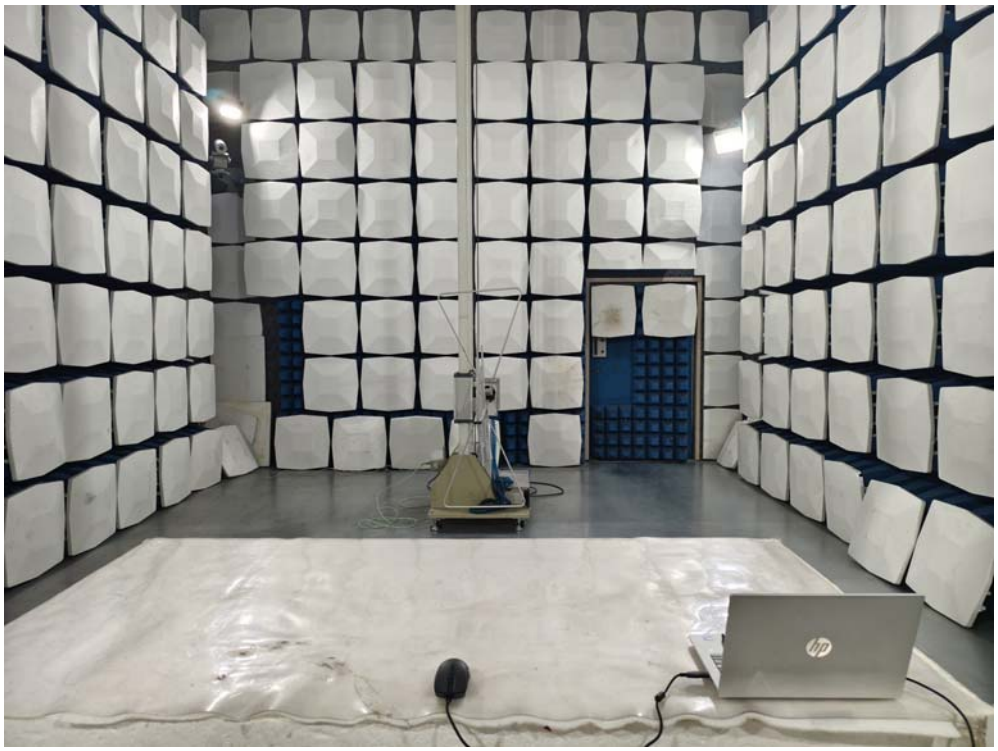
Appendix:

Conducted Emissions



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Radiated Emissions



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Outside View





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Outside View





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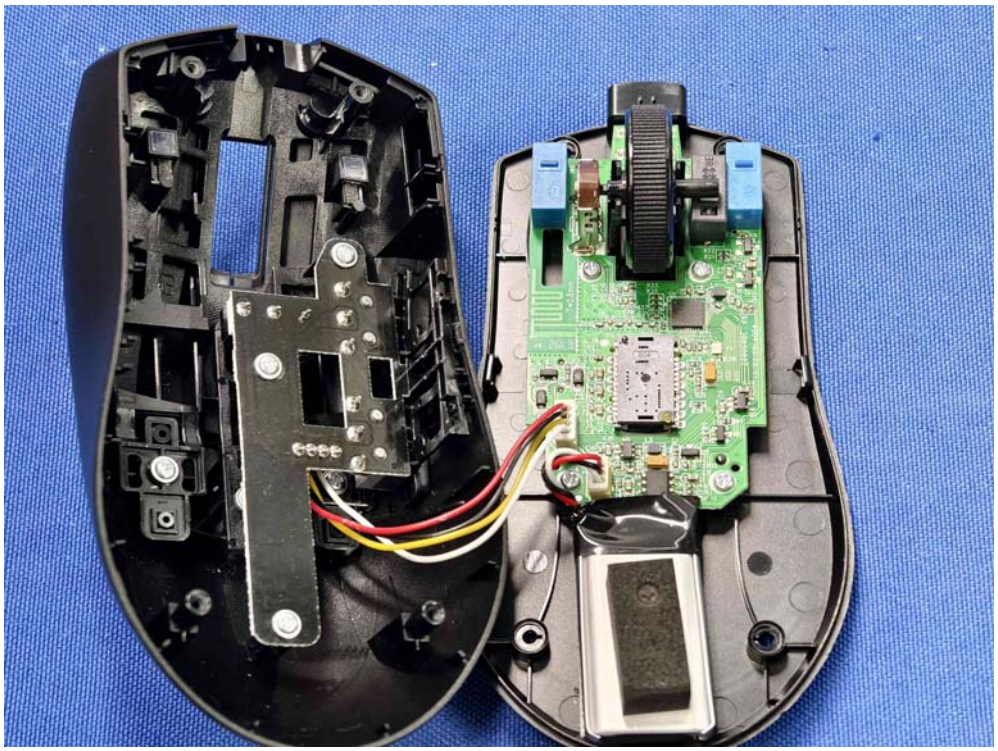
Outside View





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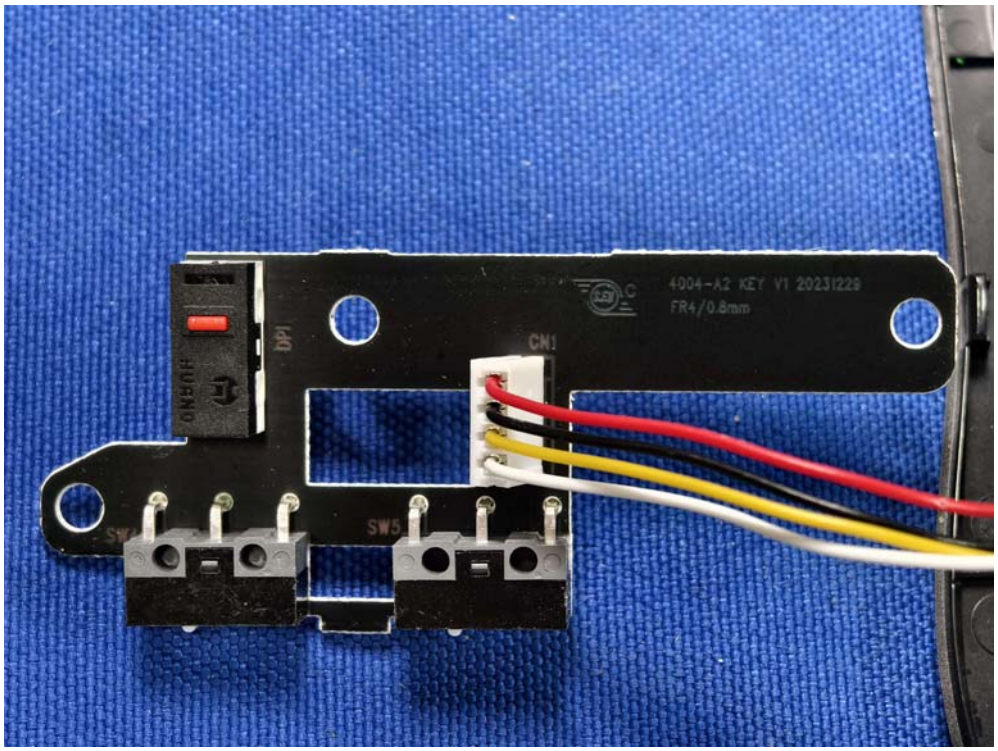
Inside View

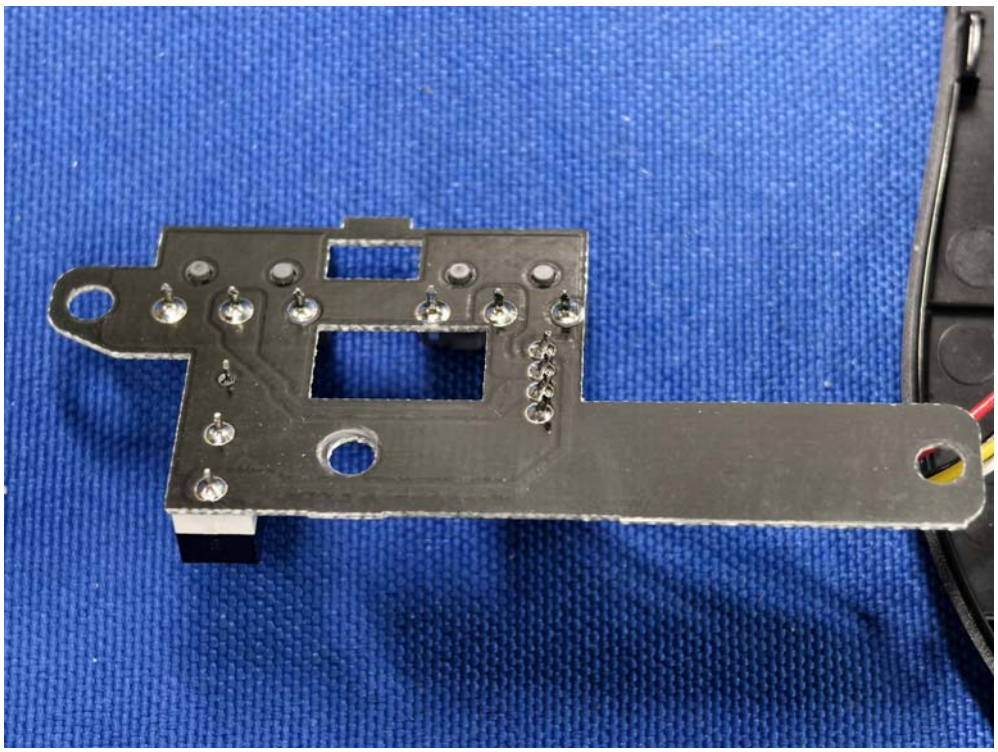




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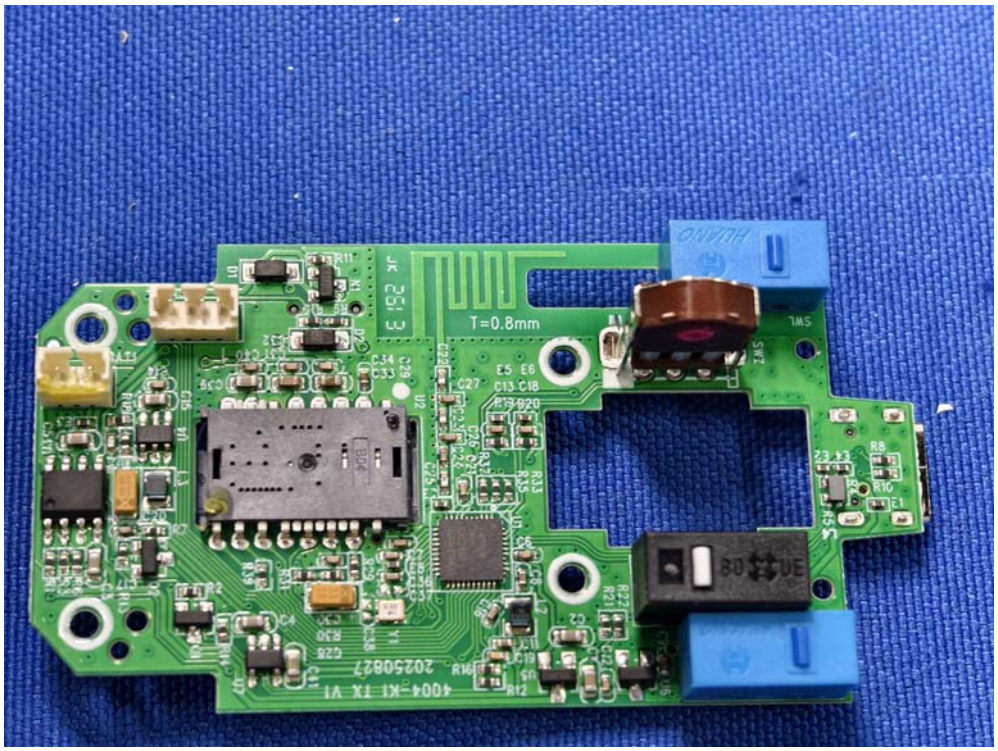
Inside View

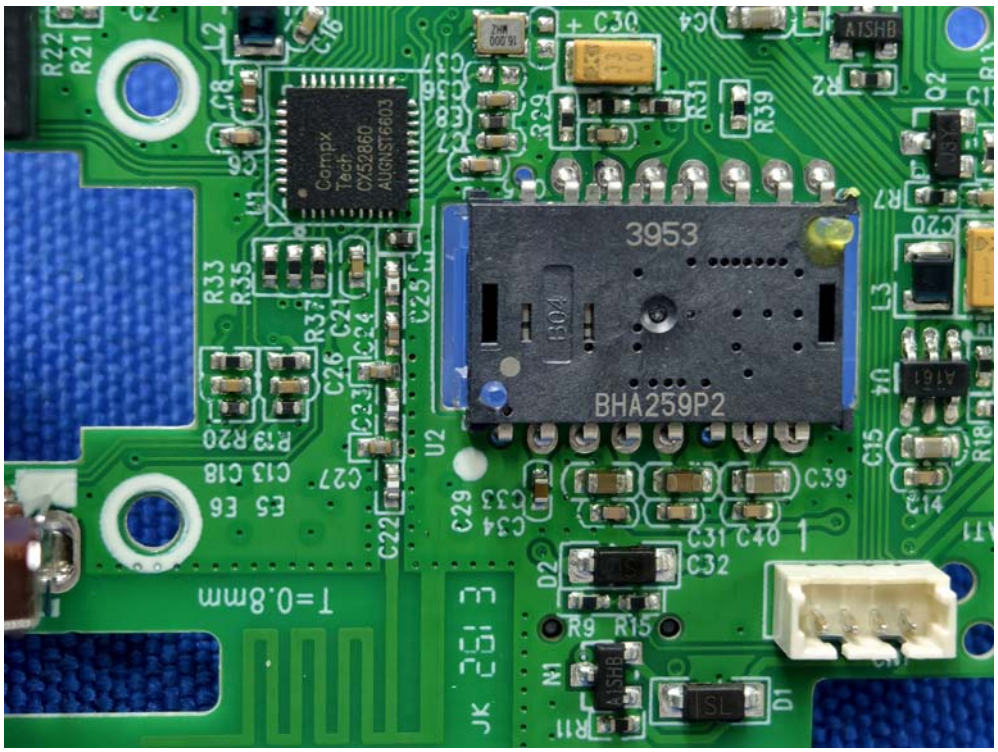




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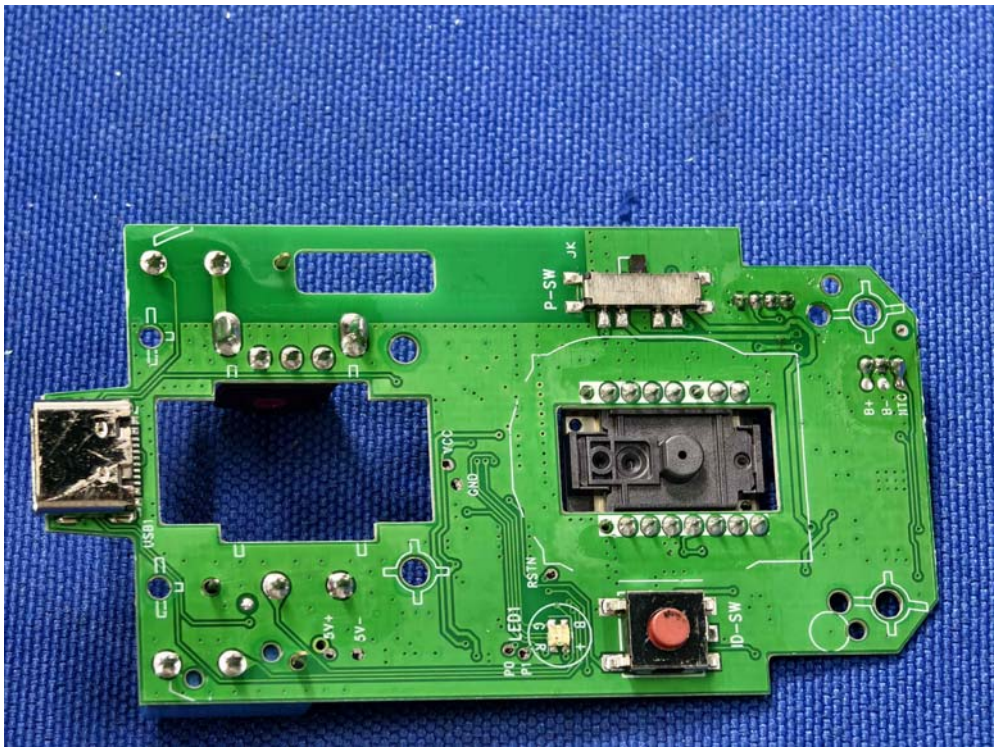
Inside View





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Inside View



--End of the Report--

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