



FCC TEST REPORT

FCC ID: 2A8A4-M556

Product	:	Ergonomic Design Wireless Silent Mouse
Model Name	:	M556
Additional model	:	M516,M526,M518, M538
Brand	:	N/A
Report No.	:	PTC24111508701E-FC01
Prepared for		
Dongguan Eranode Electronics Limited		
Building 2, No.17, Dahuan Road, Dalingshan Town, Dongguan City, Guangdong Province		
Prepared by		
Precise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



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1 TEST RESULT CERTIFICATION

Applicant's name : Dongguan Eranode Electronics Limited
Address : Building 2, No.17, Dahuan Road, Dalingshan Town, Dongguan City, Guangdong Province
Manufacture's name : Dongguan Eranode Electronics Limited
Address : Building 2, No.17, Dahuan Road, Dalingshan Town, Dongguan City, Guangdong Province
Product name : Ergonomic Design Wireless Silent Mouse
Model name : M556,M516,M526,M518, M538
Standards : FCC Part15 Subpart C, Paragraph 15.249
Test procedure : ANSI C63.10: 2013
Test Date : Jul. 16, 2025 to Aug. 02, 2025
Date of Issue : Aug. 02, 2025
Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	N/A
15.249	Radiated Emission	PASS
15.215(c)	20dB Bandwidth	PASS
15.249(d)	Band Edge	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

Remark:N/A



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2.1 Test Site

Precise Testing & Certification Co., Ltd.

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Ergonomic Design Wireless Silent Mouse
Model Name	:	M556
Additional model	:	M516,M526,M518, M538
Operation Frequency	:	2402-2480MHz
Modulation	:	GFSK
Number of Channels	:	79
Antenna installation	:	PCB antenna
Antenna Gain	:	3.55 dBi
Power supply	:	DC 3V,10mA
Hardware Version	:	BYKC-NS-MS03-6621D-CD-VO
Software Version	:	cv41av62_v02

Model difference:

The appearance color are different, but the internal structure and circuit diagram are the same.



3.2 Channel List

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting. Only the worst case data were reported.

The EUT has been associated with peripherals pursuant to ANSI C63.10-2013 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation (9 KHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The details of test channels and bandwidth were for RF conductive measurement.

Channel List:

Channel	Frequency	Channel	Frequency	Channel	Frequency
CH1	2402MHz	CH28	2429MHz	CH55	2456MHz
CH2	2403MHz	CH29	2430MHz	CH56	2457MHz
CH3	2404MHz	CH30	2431MHz	CH57	2458MHz
CH4	2405MHz	CH31	2432MHz	CH58	2459MHz
CH5	2406MHz	CH32	2433MHz	CH59	2460MHz
CH6	2407MHz	CH33	2434MHz	CH60	2461MHz
CH7	2408MHz	CH34	2435MHz	CH61	2462MHz
CH8	2409MHz	CH35	2436MHz	CH62	2463MHz
CH9	2410MHz	CH36	2437MHz	CH63	2464MHz
CH10	2411MHz	CH37	2438MHz	CH64	2465MHz
CH11	2412MHz	CH38	2439MHz	CH65	2466MHz
CH12	2413MHz	CH39	2440MHz	CH66	2467MHz
CH13	2414MHz	CH40	2441MHz	CH67	2468MHz
CH14	2415MHz	CH41	2442MHz	CH68	2469MHz
CH15	2416MHz	CH42	2443MHz	CH69	2470MHz
CH16	2417MHz	CH43	2444MHz	CH70	2471MHz
CH17	2418MHz	CH44	2445MHz	CH71	2472MHz
CH18	2419MHz	CH45	2446MHz	CH72	2473MHz
CH19	2420MHz	CH46	2447MHz	CH73	2474MHz
CH20	2421MHz	CH47	2448MHz	CH74	2475MHz
CH21	2422MHz	CH48	2449MHz	CH75	2476MHz
CH22	2423MHz	CH49	2450MHz	CH76	2477MHz
CH23	2424MHz	CH50	2451MHz	CH77	2478MHz



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CH24	2425MHz	CH51	2452MHz	CH78	2479MHz
CH25	2426MHz	CH52	2453MHz	CH79	2480MHz
CH26	2427MHz	CH53	2454MHz		
CH27	2428MHz	CH54	2455MHz		

Note:

1. Test of channel was included the lowest 2402MHz, middle 2440MHz and highest frequency 2480MHz in highest data rate and to perform the test, then record on this report.
2. EUT used the new batteries during test.



4 Equipment During Test

4.1 Equipments List

RF Conducted Test

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
MXG Signal Analyzer	Agilent	N9020A	SER MY5111038	10Hz-26.5GHz	Aug.15, 2024	1 Year
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	Aug.15, 2024	1 Year
Power Meter	Anritsu	ML2495A	0949003	300MHz-40GHz	Aug.15, 2024	1 Year
Power Sensor	Anritsu	MA2411B	0917017	300MHz-40GHz	Aug.15, 2024	1 Year
Test S/W	Tonscend	JS1120-3	/	/	/	/

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESPI7	101671	9KHz-7GHz	Aug.15, 2024	1 Year
Loop Antenna	Schwarzbeck	FMZB 1519	192	9 KHz -30MHz	Aug.15, 2024	1 Year
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Sep.10, 2024	1 Year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	1MHz-1GHz	Aug.15, 2024	1 Year
Cable	IMRO	AK-9515E(9m)	Cable-L	9KHz-3GHz	Aug.15, 2024	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV40	6625-01-588-5515	9KHz-40GHz	Aug.15, 2024	1 Year
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	1GHz-18GHz	Aug.15, 2024	1 Year
Power Amplifier	ZHINAN	ZN3380C	15002	1GHz-26.5GHz	Aug.15, 2024	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9170	9170-1066	15GHz-40GHz	Jul. 19, 2024	1 Year



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Amplifier	SCHWARZBECK	BBV 9721	9721-205	18GHz-40GHz	Jul. 19, 2024	1 Year
Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	Aug.15, 2024	1 Year
RF Cable	R&S	R204	R21X	1GHz-40GHz	Aug.15, 2024	1 Year
Test S/W	Tonscend	TS+	/	/	/	/

Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Date	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug.15, 2024	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	9KHz-300MHz	Aug.15, 2024	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	9KHz-300MHz	Aug.15, 2024	1 Year
Limiter	R&S	ESH3-Z2	0357.8810.54-102808-NB	0Hz-30MHz	Aug.15, 2024	1 Year
RF Switch	DIAMOND ANTENNA	CX-210	/	0.09MHz-6GHz	Mar. 22,2025	1 Year
Test S/W	Tonscend	JS32-CE	/	/	/	/



4.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~25GHz)	$\pm 4.74\text{dB}$
Radiated Emission(9KHz~30MHz)	$\pm 3.15\text{dB}$

4.3 Description of Support Units

Equipment	Model No.	Series No.
NOTEBOOK	X230	R9PL804A

5 Conducted Emission

Test Requirement	: FCC CFR 47 Part 15 Section 15.207
Test Method	: ANSI C63.10: 2013
Test Result	: PASS
Frequency Range	: 150kHz to 30MHz
Class/Severity	: Class B

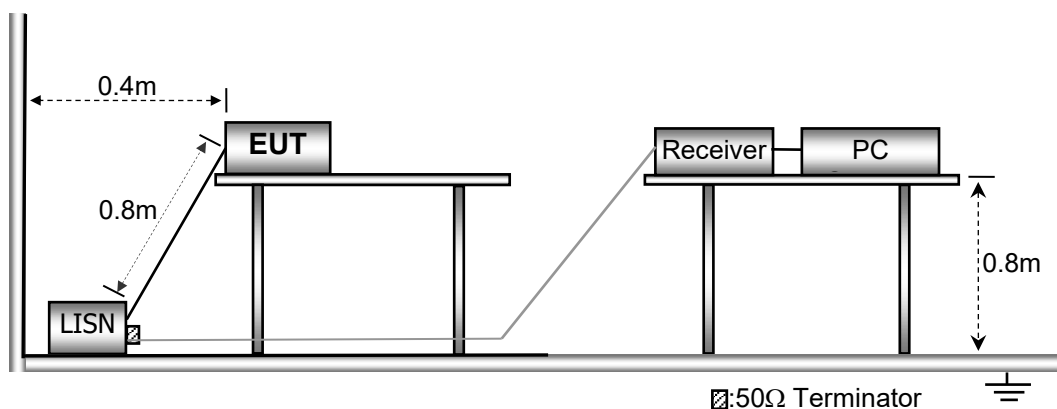
5.1 E.U.T. Operation

Operating Environment :

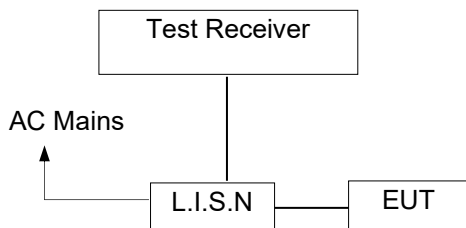
Temperature	: 25.5 °C
Humidity	: 51 % RH
Atmospheric Pressure	: 101.2kPa

5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



5.3 Test SET-UP (Block Diagram of Configuration)



5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)

0.15-0.5

0.5-5.0

5.0-30.0

Quasi-peak

66-56

56

60

Average

56-46

46

50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

5.7 Conducted Emission Test Result

N/A

Not applicable for equipment operated with DC power supply.



6 Radiated Emission and Band Edge

6.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

(d) 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 § 15.209, whichever is the lesser attenuation.

Test Standard	FCC Part15 C Section 15.249					
Test Limit	Frequency (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	2400~2483.5	50	-	114.0	Peak	3
	2400~2483.5	50	-	94.0	Average	3
	2400~2483.5	-	500	74.0	Peak	3
	2400~2483.5	-	500	54.0	Average	3

Remark:

(1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

6.2 Test Setup

Figure 1. Below 30MHz

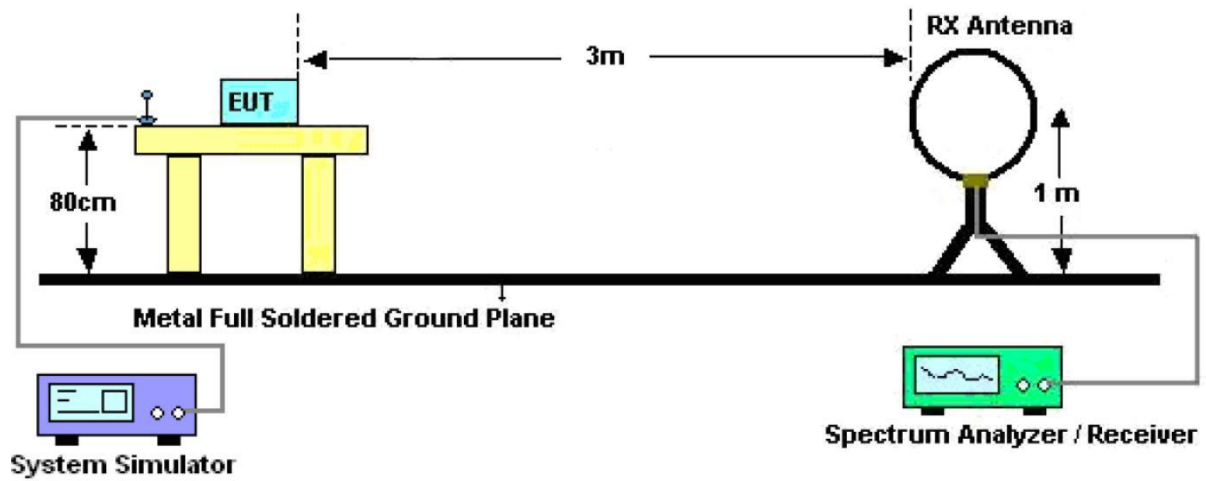


Figure 2. 30MHz to 1GHz

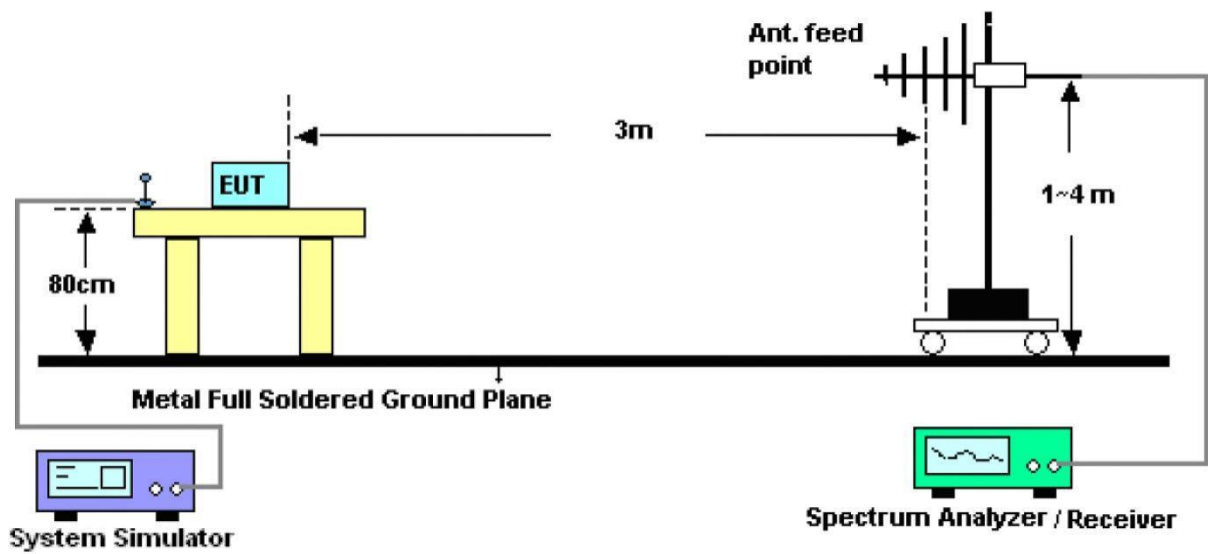
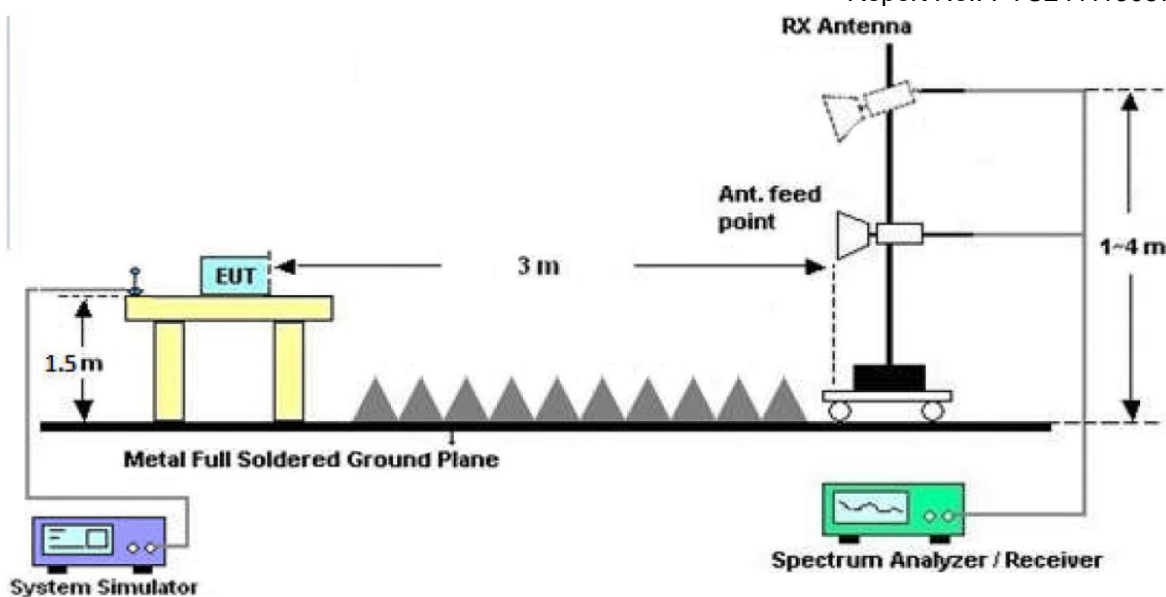


Figure 3. Above 1 GHz



6.3 Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:



RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz,Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

6.4 Test Data

PASS

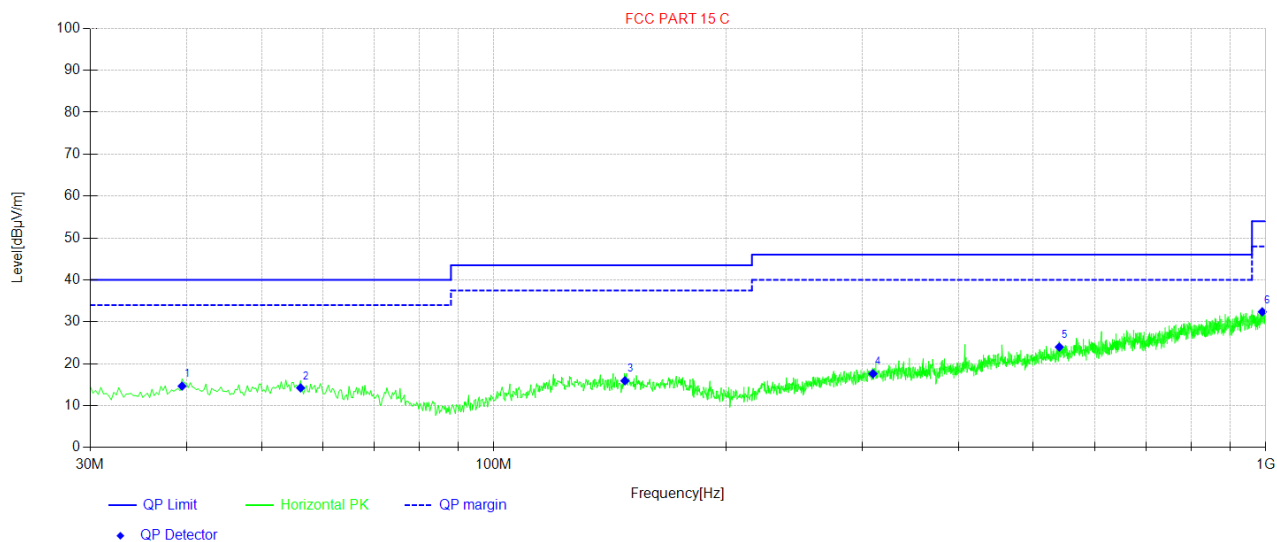
During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all the modes, and found the Middle channel which is the worst case, only the worst case is recorded in the report



Test plot for Horizontal



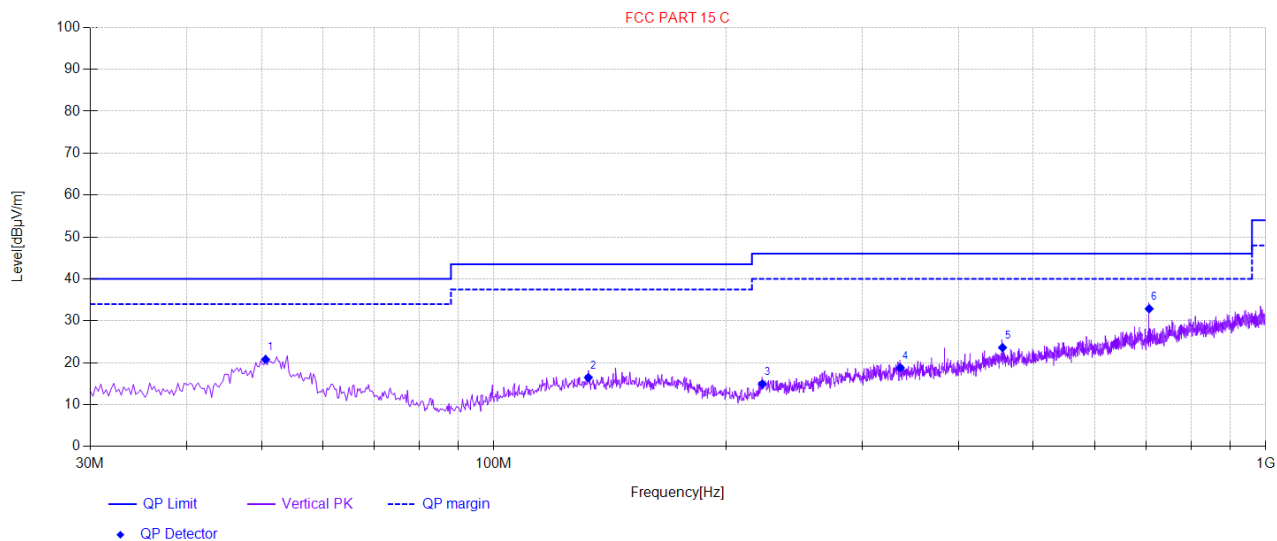
Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	39.46	25.86	-11.20	14.66	40.00	25.34	Horizontal	PASS
2	56.19	25.29	-11.06	14.23	40.00	25.77	Horizontal	PASS
3	147.86	25.58	-9.65	15.93	43.50	27.57	Horizontal	PASS
4	309.85	26.08	-8.46	17.62	46.00	28.38	Horizontal	PASS
5	540.22	26.69	-2.71	23.98	46.00	22.02	Horizontal	PASS
6	989.82	26.83	5.55	32.38	54.00	21.62	Horizontal	PASS

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor



Test plot for Vertical

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Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	50.61	31.54	-10.75	20.79	40.00	19.21	Vertical	PASS
2	132.58	26.57	-10.09	16.48	43.50	27.02	Vertical	PASS
3	222.79	26.9	-11.95	14.95	46.00	31.05	Vertical	PASS
4	336.28	26.6	-7.82	18.78	46.00	27.22	Vertical	PASS
5	456.07	28.4	-4.79	23.61	46.00	22.39	Vertical	PASS
6	706.33	32.48	0.40	32.88	46.00	13.12	Vertical	PASS

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

Test Frequency 1GHz-25GHz



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Test Mode: CH1 (Low channel)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin Limit (dB)	Pol.	Detector
2402.0000	94.37	31.12	2.18	35.33	92.34	114	-21.66	V	Peak
2402.0000	82.88	31.12	2.18	35.33	81.25	94	-12.75	V	AVG
4804.0000	49.96	34.01	2.58	34.65	51.90	74	-22.10	V	Peak
4804.0000	36.53	34.01	2.58	34.65	38.86	54	-15.14	V	AVG
7206.0000	46.33	36.16	2.97	35.07	50.39	74	-23.61	V	Peak
7206.0000	35.24	36.16	2.97	35.07	36.33	54	-17.67	V	AVG
2402.0000	93.28	31.12	2.18	35.33	91.25	114	-22.75	H	Peak
2402.0000	84.67	31.12	2.18	35.33	83.04	94	-10.96	H	AVG
4804.0000	48.26	34.01	2.58	34.65	50.20	74	-23.80	H	Peak
4804.0000	36.50	34.01	2.58	34.65	38.83	54	-15.17	H	AVG
7206.0000	47.70	36.16	2.97	35.07	51.76	74	-22.24	H	Peak
7206.0000	35.92	36.16	2.97	35.07	37.01	54	-16.99	H	AVG

Test Mode: CH39 (Middle channel)



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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin Limit (dB)	Pol.	Detector
2440.0000	93.36	31.12	2.2	34.51	92.17	114	-21.83	V	Peak
2440.0000	83.23	31.22	2.2	34.51	82.14	94	-11.86	V	AVG
4880.0000	48.05	34.98	2.49	34.14	51.38	74	-22.62	V	Peak
4880.0000	36.21	34.98	2.49	34.14	39.54	54	-14.46	V	AVG
7320.0000	47.89	36.01	3.01	34.56	52.35	74	-21.65	V	Peak
7320.0000	36.96	36.01	3.01	34.56	41.42	54	-12.58	V	AVG
2440.0000	92.74	31.12	2.2	34.51	91.55	114	-22.45	H	Peak
2440.0000	82.72	31.12	2.2	34.51	81.53	94	-12.47	H	AVG
4880.0000	48.84	34.98	2.49	34.14	52.17	74	-21.83	H	Peak
4880.0000	36.24	34.98	2.49	34.14	39.57	54	-14.43	H	AVG
7320.0000	46.29	36.01	3.01	34.56	50.75	74	-23.25	H	Peak
7320.0000	36.92	36.01	3.01	34.56	41.38	54	-12.62	H	AVG

Test Mode: CH79(High channel)



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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin Limit (dB)	Pol.	Detector
2480.0000	92.11	31.65	2.23	36.07	89.92	114	-24.08	V	Peak
2480.0000	82.48	31.65	2.23	36.07	80.29	94	-13.71	V	AVG
4960.0000	48.39	35.06	2.6	34.93	51.12	74	-22.88	V	Peak
4960.0000	36.38	35.06	2.6	34.93	39.11	54	-14.89	V	AVG
7440.0000	47.78	36.19	3.12	35.11	51.98	74	-22.02	V	Peak
7440.0000	36.08	36.19	3.12	35.11	40.28	54	-13.72	V	AVG
2480.0000	95.90	31.65	2.23	36.07	93.71	114	-20.29	H	Peak
2480.0000	82.44	31.65	2.23	36.07	80.25	94	-13.75	H	AVG
4960.0000	49.50	35.06	2.6	34.93	52.23	74	-21.77	H	Peak
4960.0000	37.03	35.06	2.6	34.93	39.76	54	-14.24	H	AVG
7440.0000	47.96	36.19	3.12	35.11	52.16	74	-21.84	H	Peak
7440.0000	35.75	36.19	3.12	35.11	39.95	54	-14.05	H	AVG

Note: 1. The testing has been conformed to 10*2402MHz=24020MHz. 10*2440MHz=24400MHz.

10*2480MHz=24800MHz.

2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
Margin=Emission Level-Limit



Band Edges:

Test Mode: Low Channel 2402MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarity H/V	Test Value
2390.00	40.10	29.15	3.41	34.01	38.65	74	-35.35	H	Peak
2400.00	58.46	29.16	3.43	34.01	57.04	74	-16.96	H	Peak
2390.00	40.65	29.15	3.41	34.01	39.20	74	-34.80	V	Peak
2400.00	56.99	29.16	3.43	34.01	55.57	74	-18.43	V	Peak
2390.00	34.02	29.15	3.41	34.01	32.57	54	-21.43	H	AV
2400.00	40.97	29.16	3.43	34.01	39.55	54	-14.45	H	AV
2390.00	35.05	29.15	3.41	34.01	33.60	54	-20.40	V	AV
2400.00	43.29	29.16	3.43	34.01	41.87	54	-12.13	V	AV

Test Mode: High Channel 2480MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarity H/V	Test Value
2483.50	46.79	29.28	3.53	34.03	45.57	74	-28.43	H	Peak
2500.00	40.92	29.30	3.56	34.03	39.75	74	-34.25	H	Peak
2483.50	47.87	29.28	3.53	34.03	46.65	74	-27.35	V	Peak
2500.00	41.96	29.30	3.56	34.03	40.79	74	-33.21	V	Peak
2483.50	39.59	29.28	3.53	34.03	38.37	54	-15.63	H	AV
2500.00	34.03	29.30	3.56	34.03	32.86	54	-21.14	H	AV
2483.50	38.82	29.28	3.53	34.03	37.60	54	-16.40	V	AV
2500.00	32.19	29.30	3.56	34.03	31.02	54	-22.98	V	AV

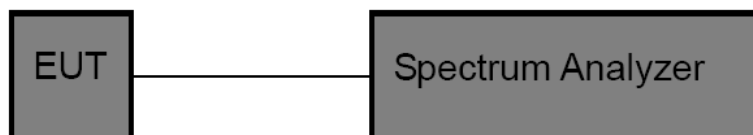


7 20dB Bandwidth Test

7.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
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7.2 Test Setup



7.3 Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
RBW = 1% to 5% of the OBW, $VBW \geq 3 \times RBW$,
Detector= Average
Trace mode= Max hold.
Sweep- auto couple.
4. Mark the peak frequency and –20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.



7.4 Test Data

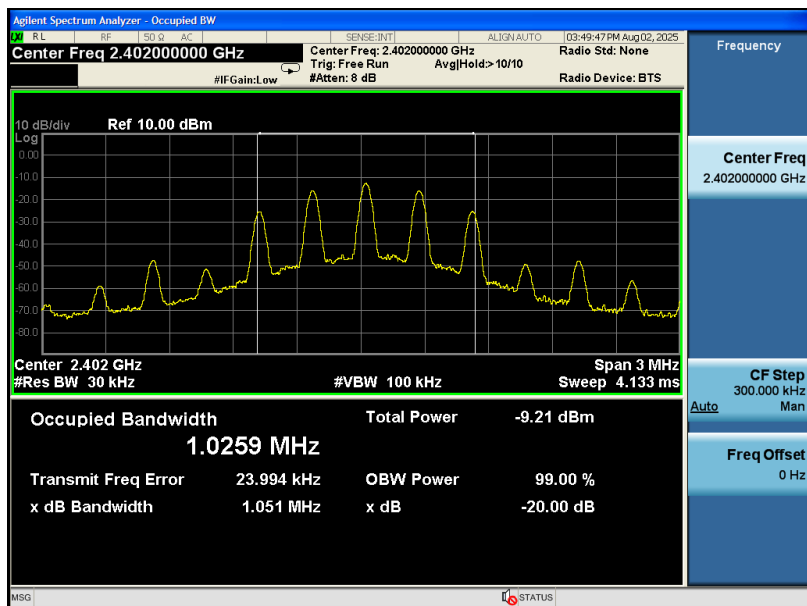
Test Item : 20dB Bandwidth
Test Voltage : DC 3V
Test Result : PASS

Test Mode : TX
Temperature : 22.4°C
Humidity : 55%RH

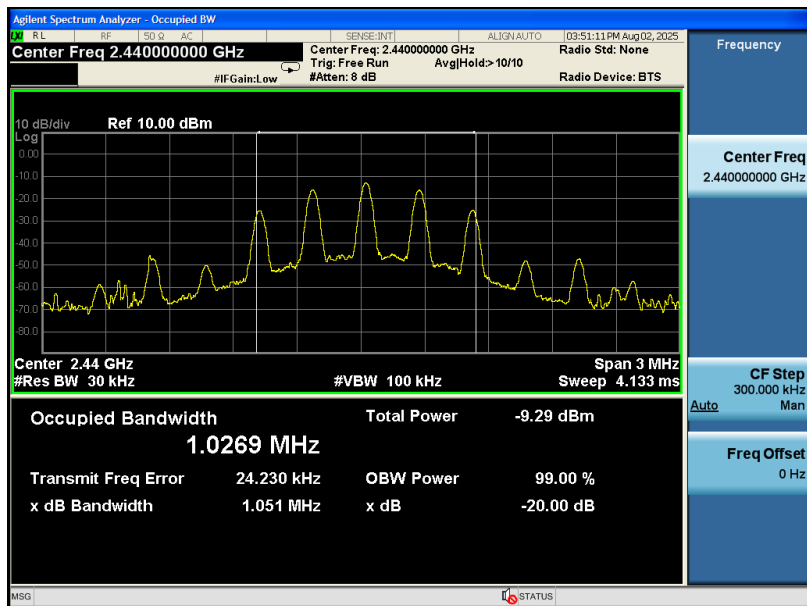
Frequency (MHz)	Bandwidth (MHz)	Result
2402	1.051	PASS
2440	1.051	PASS
2480	1.051	PASS



Test Mode: Low



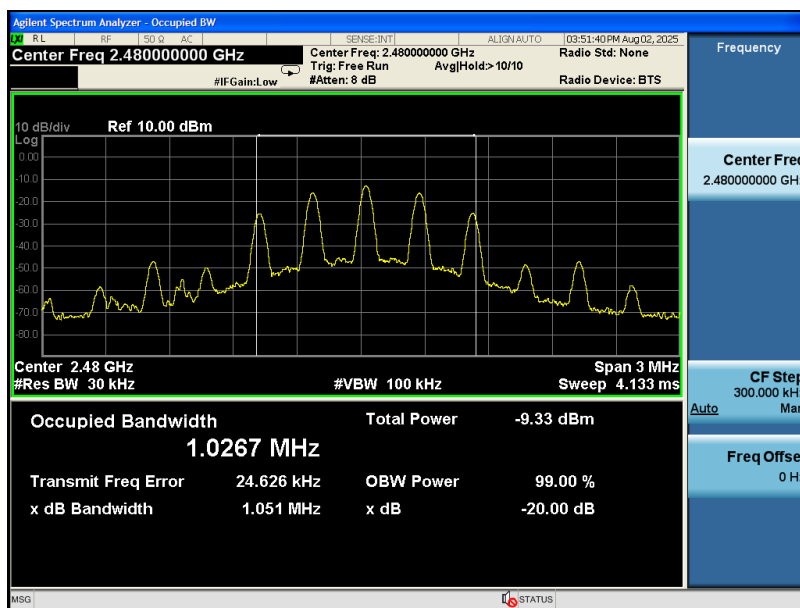
Test Mode: Middle





Report No.: PTC24111508701E-FC01

Test Mode: High





8 Antenna Requirement

8.1 Test Standard and Requirement

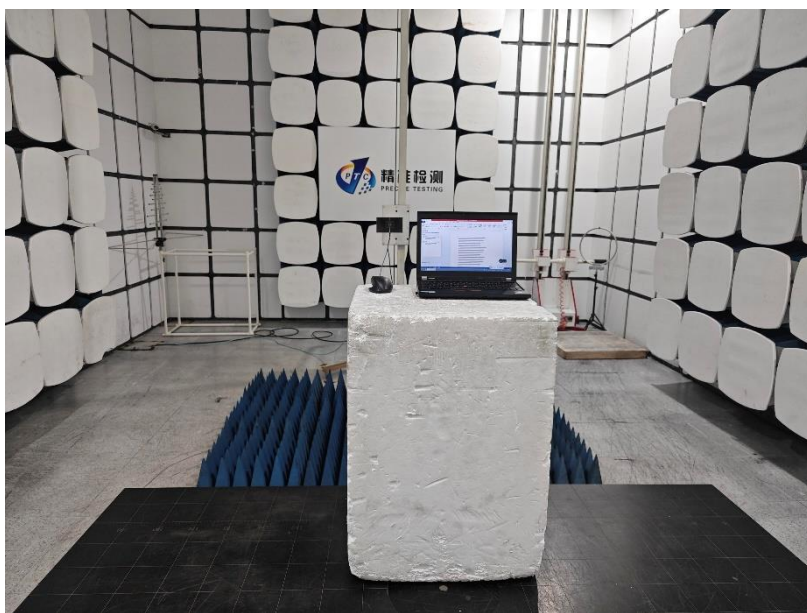
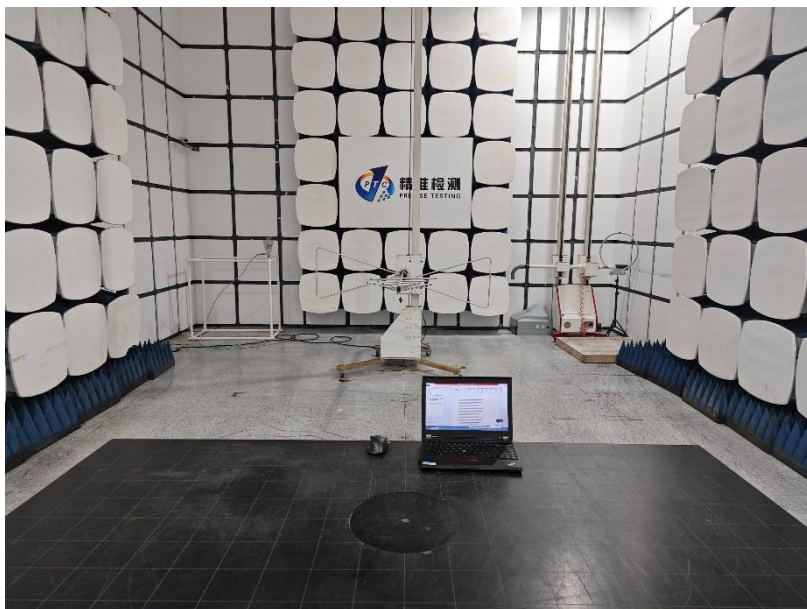
Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

8.2 Antenna Connected Construction

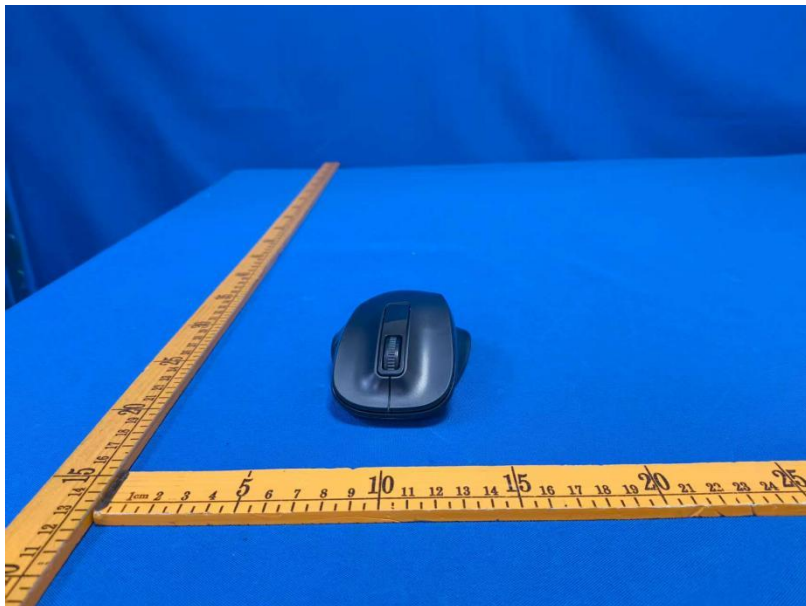
The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 3.55 dBi. It complies with the standard requirement.

9 APPENDIX I -- TEST SETUP PHOTOGRAPH

RADIATED EMISSION TEST



10 APPENDIX II -- EXTERNAL PHOTOGRAPH

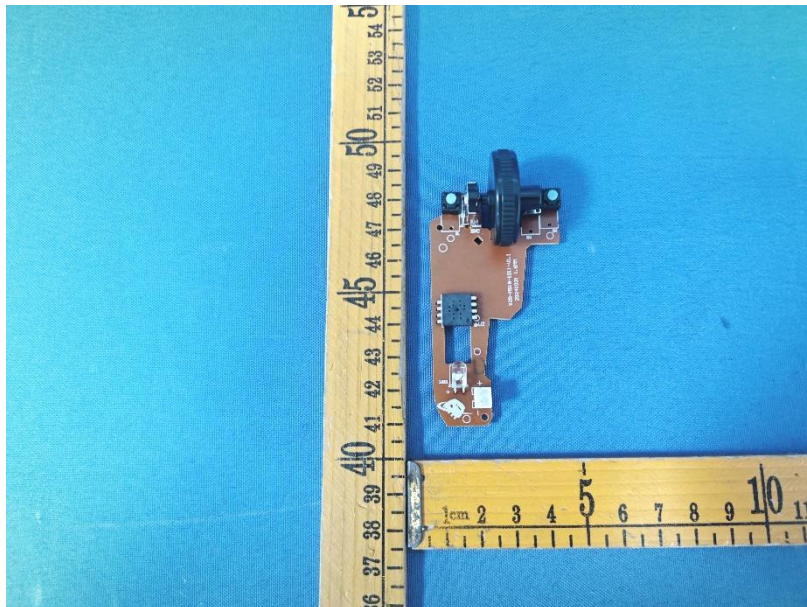


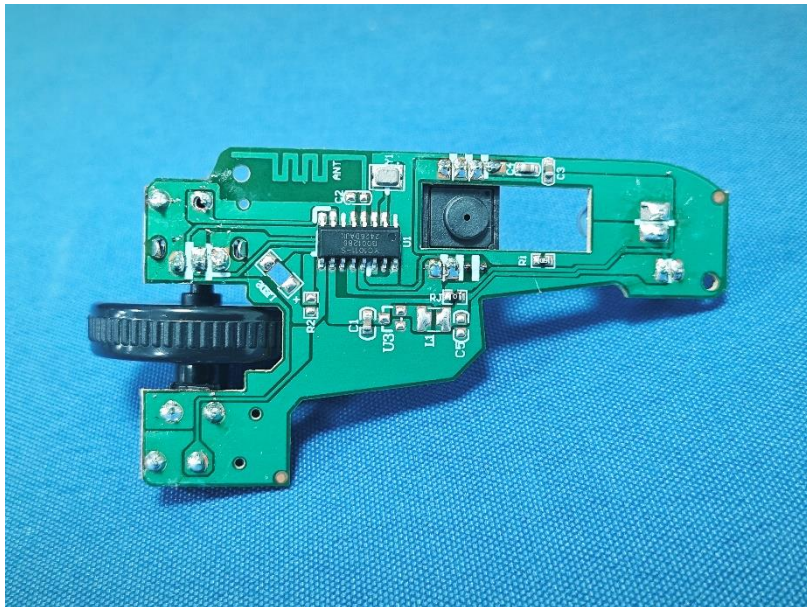
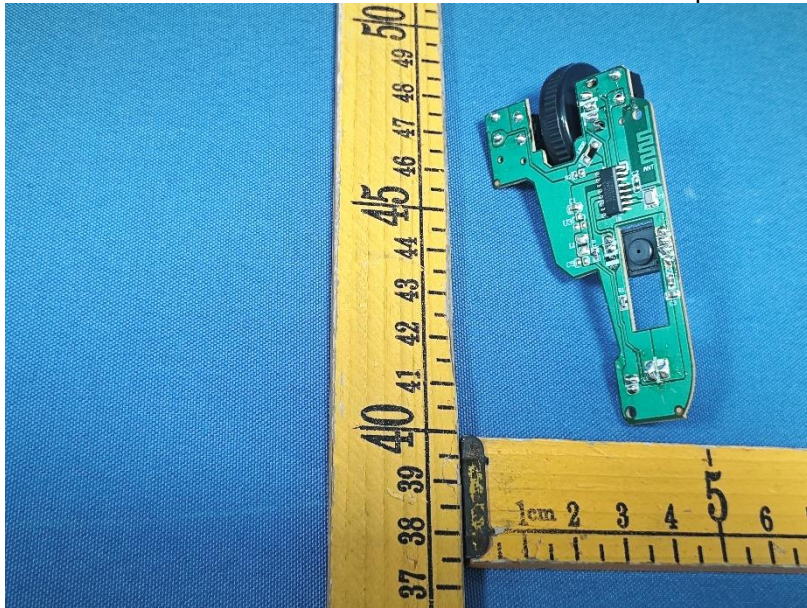


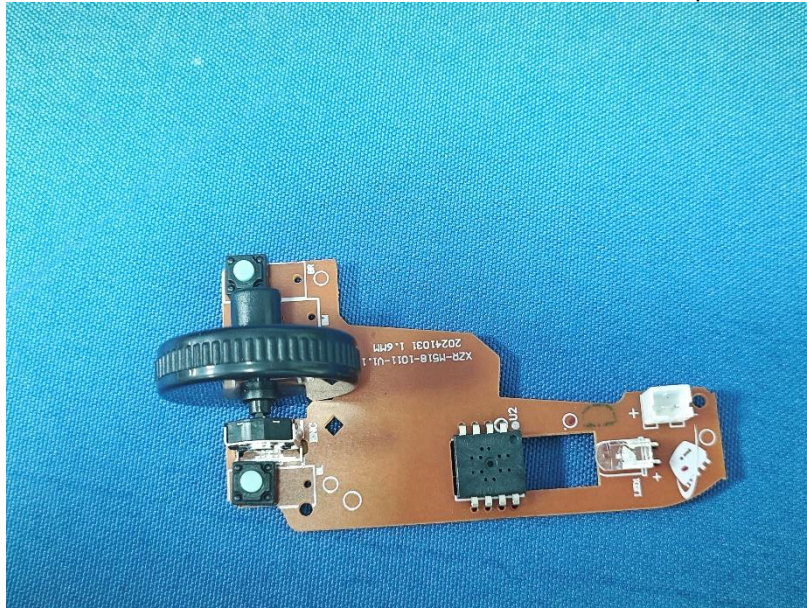


11 APPENDIX III -- INTERNAL PHOTOGRAPH









*******THE END REPORT*******