

TEST REPORT

Applicant : Shenzhen Ajazz Tongchuang Electronic Technology Co., Ltd.
Address : 2104-1, Block A, CIMC Low Orbit Satellite Internet of Things
Industrial Park, Dongkeng Community, Fenghuang Street,
Guangming District, Shenzhen, Guangdong, China.
Manufacturer : Shenzhen Ajazz Tongchuang Electronic Technology Co., Ltd.
Address : 2104-1, Block A, CIMC Low Orbit Satellite Internet of Things
Industrial Park, Dongkeng Community, Fenghuang Street,
Guangming District, Shenzhen, Guangdong, China.
Product Name : Mouse
Model Number : NJ11, NJ11 MC
Trademark :  AJAZZ
FCC ID : 2AY3H-NJ11
Test Date : May 19, 2026 – June 08, 2026
Date of Report : June 09, 2026
Test Result : This device described above has been tested by NTT, and the test results show that the equipment under test (EUT) is in compliance with the Standard requirements. And it is applicable only to the tested sample identified in the report.

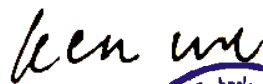
Test Procedure Used:

Standards : FCC CFR Title 47 Part 15 Subpart C Section 15.249
ANSI C63.10-2020+Cor.1-2023

Prepared by (Test Engineer):
Cindy Qin



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Approved (Manager):
Abel Yu



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1. General Information

1.1. Description of Device (EUT)

EUT Name : Mouse
 Model No. : NJ11
 Serial Model No : NJ11 MC
 Model Difference : All the models are the same circuit and RF module, except the model name and color.
 Power supply : DC 3.7V from battery; Charging input: DC 5V
 Operation frequency : 2402-2480MHz
 Modulation : GFSK
 Antenna Type : PCB antenna, Maximum Gain is 2.34 dBi
 Intend use environment : Residential, commercial and light industrial environment

1.2. Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

1.3.Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna requirement	FCC part 15.203	PASS
AC Power Line Conducted Emission	FCC part 15.207	PASS
Field strength of the fundamental signal	FCC part 15.249 (a)	PASS
Spurious Emission	FCC part 15.249 (a) (d)/15.209	PASS
Band Edge	FCC part 15.249 (d)/15.205	PASS
20dB Occupied Bandwidth	FCC part 15.215 (c)	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

1.4.Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
Adapter	Huawei	HW-059200C00	/	/

1.5.Test mode

The special RF test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
GFSK	2402MHz	2440MHz	2480MHz

Note: Only the worst Data Record in the report

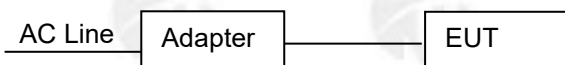
1.6. Test configuration

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

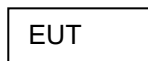
Test Software	Engineering mode
Power level setup	Default

1.7.Block Diagram

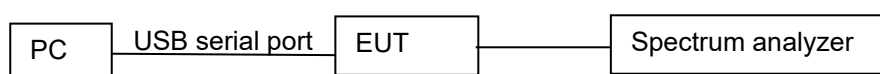
Conducted Emission



Radiated Emission



RF Conducted Test



1.8.Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35°C	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	DC 3.7V from Battery or DC 5V	N/A
Note: N/A is an abbreviation for Not Applicable.		

1.9.Measurement Uncertainty (95% confidence levels, k=2)

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 ⁻⁶
Bandwidth	± 1.5 x 10 ⁻⁶
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(9KHz~30MHz)	±4.51dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Remark:When making a conformity declaration based on test results for regulations/standards or specifications,the default is to use Clause 4.2.1of ILAC-G8:09/2019 and the guidelines on decision rules and conformity declaration in IEC Guide 115:2023.	

1.10.Test Facility

Site Description		
Name of Firm	:	Shenzhen NTT Testing Technology Co.,Ltd.
Site Location	:	1B, Building 2, Factory Building & 103, Building 3, Factory Building, Dayang Industrial Park, No.4, Industrial Avenue, Tangwei Community, Fuhai Sub-district, Bao 'an District, Shenzhen City, Guangdong, China
FCC Designation Number	:	CN3446
FCC Test Firm Registration Number	:	129414

1.11.Test Equipment

Conducted Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	HSRCE944	/	HTEC	2025/4/30	2028/4/29
EMI Test Receiver	ESPI	/	RS	2025/9/8	2026/9/7
LISN	NNLK 8129	00603	Schwarzbeck	2025/9/8	2026/9/7
LISN	NNHV 8123-400	00694	Schwarzbeck	2025/9/8	2026/9/7
LISN	NNHV 8123-400	00680	Schwarzbeck	2025/9/8	2026/9/7
Cable	RG223-1500MM	NA	RG	2025/9/8	2026/9/7

Radiated Test Site(Below 1G and Above 1G)&RF Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2025/7/24	2028/7/23
EMI Test Receiver	ESCI	101018	RS	2025/9/8	2026/9/7
Amplifier (30MHz-1GHz)	BBV 9718D	00042	SCHWARZBECK	2025/9/8	2026/9/7
Bilog Antenna (30MHz-1GHz)	VULB9168	1858	SCHWARZBECK	2025/9/9	2026/9/8
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHWARZBECK	2025/9/9	2026/9/8
Preamplifier (1GHz-18GHz)	BBV 9718D	0024	SCHWARZBECK	2025/9/8	2026/9/7
Spectrum Analyzer (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2025/9/8	2026/9/7
Preamplifier (18GHz-40GHz)	BBV 9721	0056	SCHWARZBECK	2025/9/8	2026/9/7
Double Ridge Guide Horn Antenna (18GHz-40GHz)	SAS-574	588	A.H.System	2025/9/8	2026/9/7
Loop Antenna (9KHz-30MHz)	FMZB1519B	014	SCHWARZBECK	2025/9/8	2026/9/7
Amplifier (9KHz-30MHz)	CVP 9222 C	00109	SCHWARZBECK	2025/9/8	2026/9/7
MXG Signal Analyzer	N9020A	MY505102 02	Agilent	2025/9/8	2026/9/7
MXG Vector Signal Generator	N5182A	MY501400 20	Agilent	2025/9/8	2026/9/7

MXG Analog Signal Generator	N5181A	MY474209 19	Agilent	2025/9/8	2026/9/7
Power Sensor	TR1029-2	512364	Techoy	2025/9/8	2026/9/7
RF Swith	TR1029-1	512364	Techoy	2025/9/8	2026/9/7
Cable	DA800- 4000MM	NA	DA	2025/9/8	2026/9/7
Cable	DA800- 11000MM	NA	DA	2025/9/8	2026/9/7

Test software

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ-EMC	Ver.EMC-CON 3A1.1+
2	EMC radiation test system	FALA	EZ-EMC	Ver.FA-03A2 RE+
3	RF test system	TACHOY	RFTest	V1.0.0
4	RF communication test system	TACHOY	RFTest	V1.0.0

2. Conducted emission at the mains terminals test

2.1.Limit

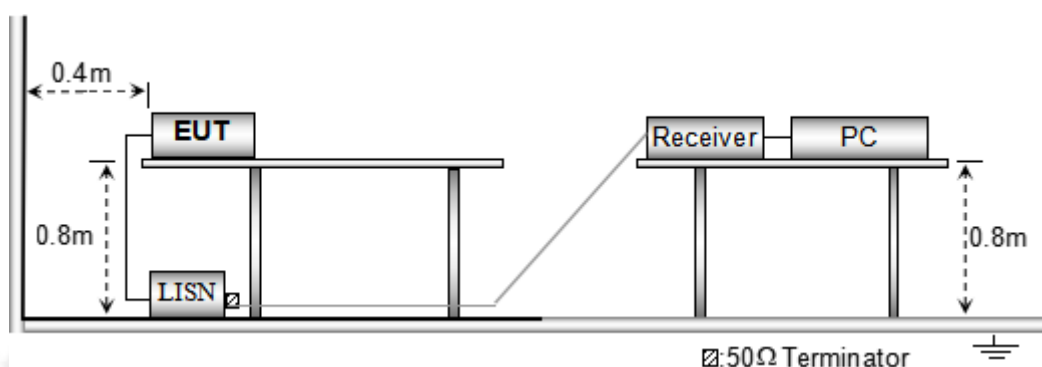
Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020+Cor.1-2023
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

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

2. The lower limit shall apply at the transition frequencies.

2.2.Test Setup

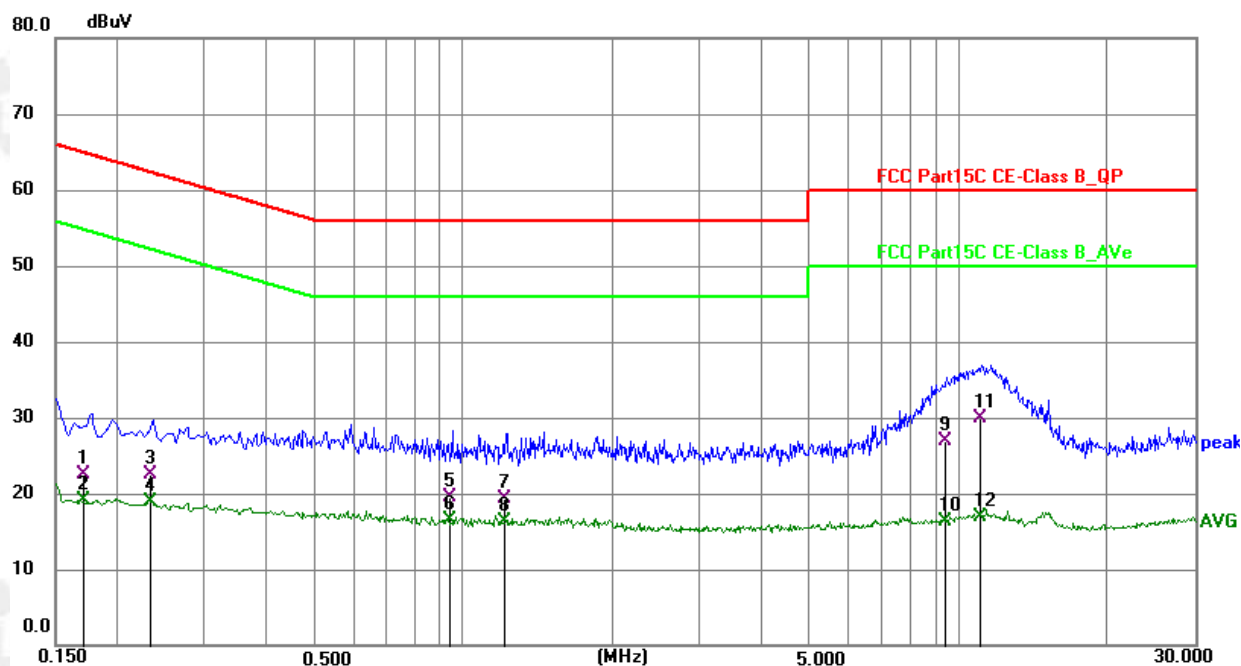


2.3.Test Procedure

1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. LISN at least 80 cm from nearest part of EUT chassis.
5. For the actual test configuration, please refer to the related Item - EUT Test Photos.

2.4.Test Result

Conducted Emission At The Mains Terminals Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	DC 5V from Adapter Input AC 120V/60Hz	Test Mode:	GFSK(CH00)

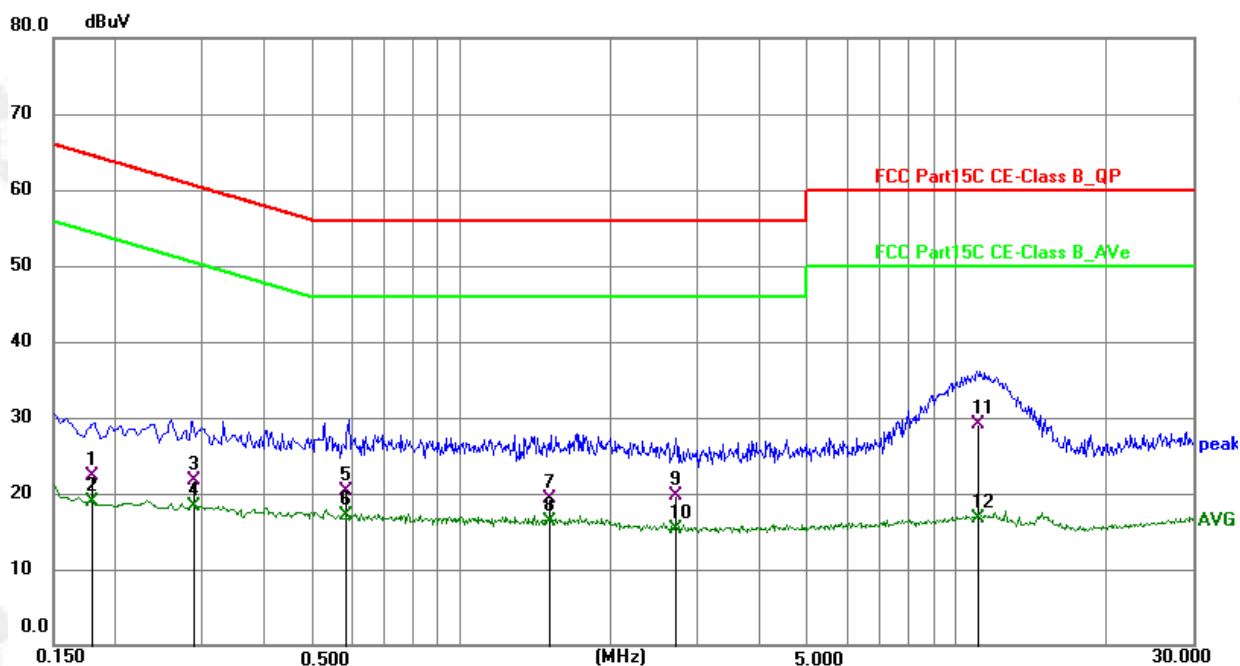


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1706	12.36	10.18	22.54	64.93	-42.39	QP
2	0.1706	8.90	10.18	19.08	54.93	-35.85	AVG
3	0.2331	12.41	10.15	22.56	62.34	-39.78	QP
4	0.2331	8.74	10.15	18.89	52.34	-33.45	AVG
5	0.9461	9.39	10.13	19.52	56.00	-36.48	QP
6 *	0.9461	6.47	10.13	16.60	46.00	-29.40	AVG
7	1.2121	9.15	10.13	19.28	56.00	-36.72	QP
8	1.2121	6.17	10.13	16.30	46.00	-29.70	AVG
9	9.4263	16.62	10.33	26.95	60.00	-33.05	QP
10	9.4263	5.95	10.33	16.28	50.00	-33.72	AVG
11	11.1058	19.54	10.38	29.92	60.00	-30.08	QP
12	11.1058	6.52	10.38	16.90	50.00	-33.10	AVG

Note:

1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2. Margin = Reading level + Correct Factor - Limit
3. All the modes have tested and recorded the worst mode in the report

Conducted Emission At The Mains Terminals Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	DC 5V from Adapter Input AC 120V/60Hz	Test Mode:	GFSK(CH00)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1797	12.19	10.17	22.36	64.50	-42.14	QP
2	0.1797	8.77	10.17	18.94	54.50	-35.56	AVG
3	0.2886	11.54	10.12	21.66	60.56	-38.90	QP
4	0.2886	8.09	10.12	18.21	50.56	-32.35	AVG
5	0.5846	10.21	10.12	20.33	56.00	-35.67	QP
6 *	0.5846	7.04	10.12	17.16	46.00	-28.84	AVG
7	1.5108	9.22	10.14	19.36	56.00	-36.64	QP
8	1.5108	6.24	10.14	16.38	46.00	-29.62	AVG
9	2.7236	9.57	10.17	19.74	56.00	-36.26	QP
10	2.7236	5.14	10.17	15.31	46.00	-30.69	AVG
11	11.1272	18.74	10.39	29.13	60.00	-30.87	QP
12	11.1272	6.37	10.39	16.76	50.00	-33.24	AVG

Note:

1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2. Margin = Reading level + Correct Factor - Limit
3. All the modes have tested and recorded the worst mode in the report

3. Radiated Spurious Emissions

3.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247
 Test Method: KDB 558074 D01 15.247 Meas Guidance v05 August 24, 2018;
 ANSI C63.10-2020+Cor.1-2023
 Test Result: PASS
 Measurement Distance: 3m

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

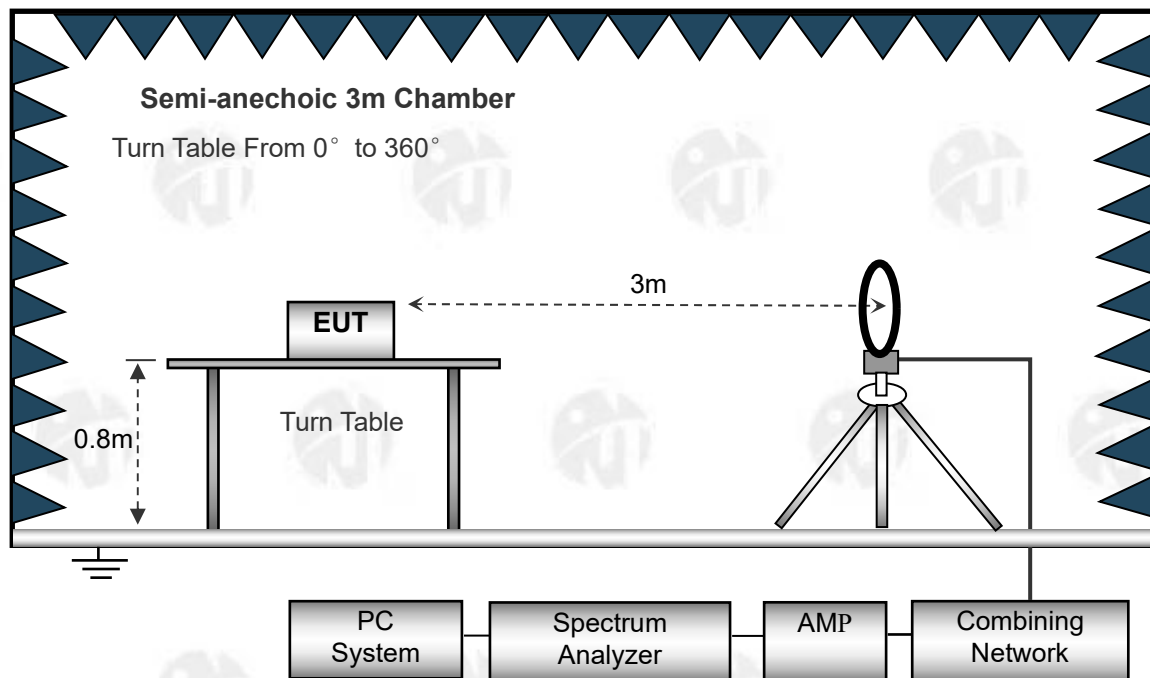
Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log(30) + 40$
30 ~ 88	100	3	100	$20\log(100)$
88 ~ 216	150	3	150	$20\log(150)$
216 ~ 960	200	3	200	$20\log(200)$
Above 960	500	3	500	$20\log(500)$

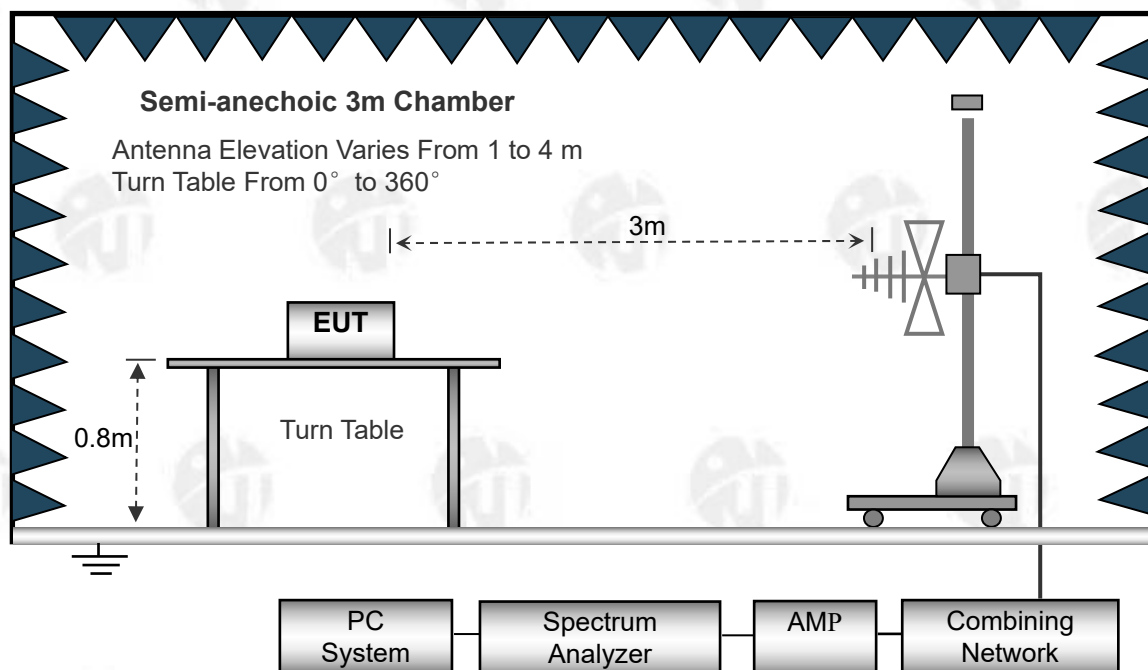
3.2.Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

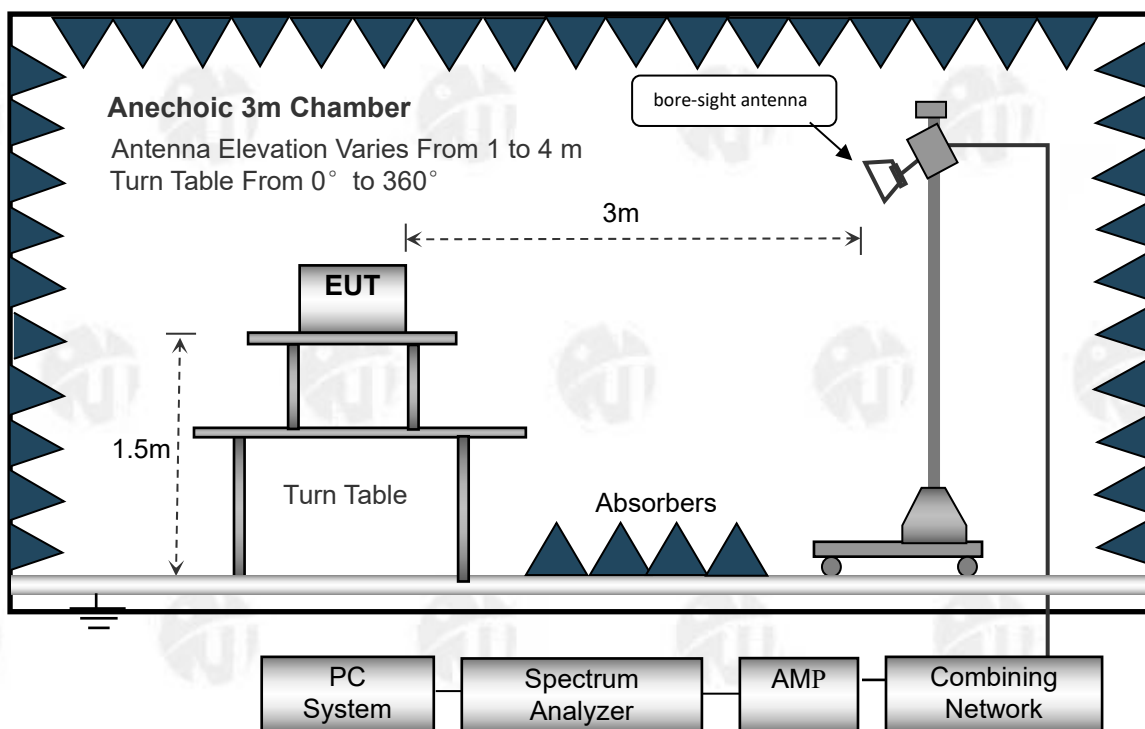
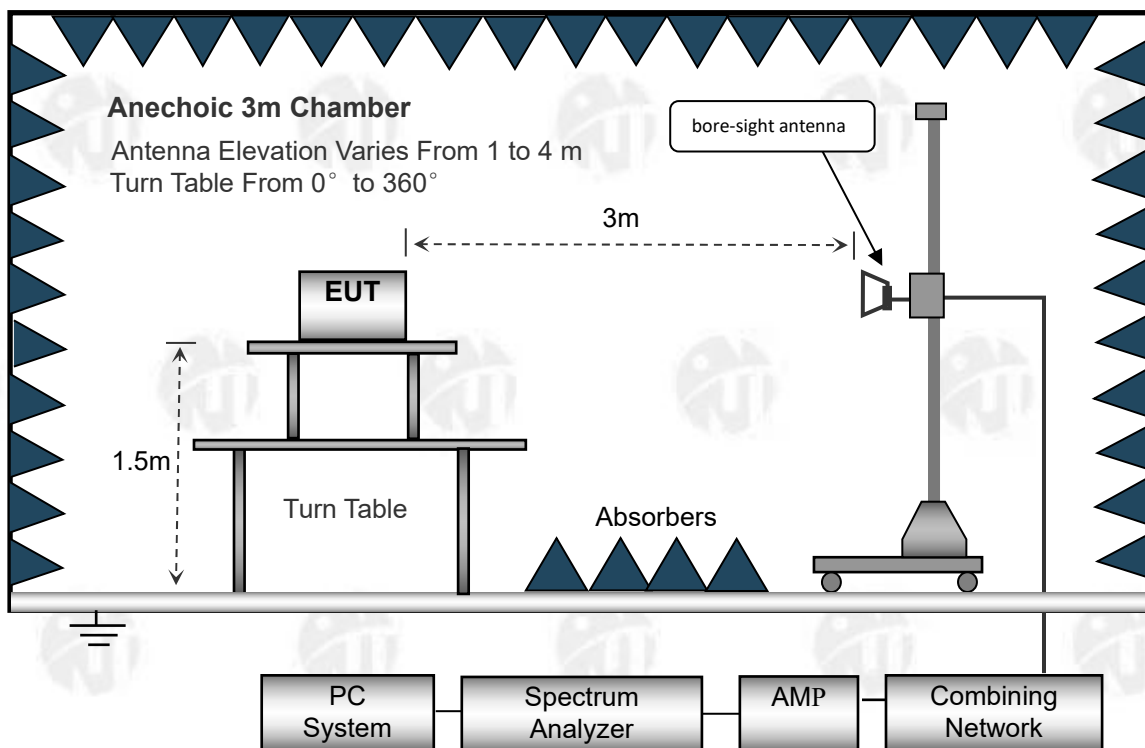
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.





3.3.Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high - pass filter is used during radiated emissions above 1GHz measurement.

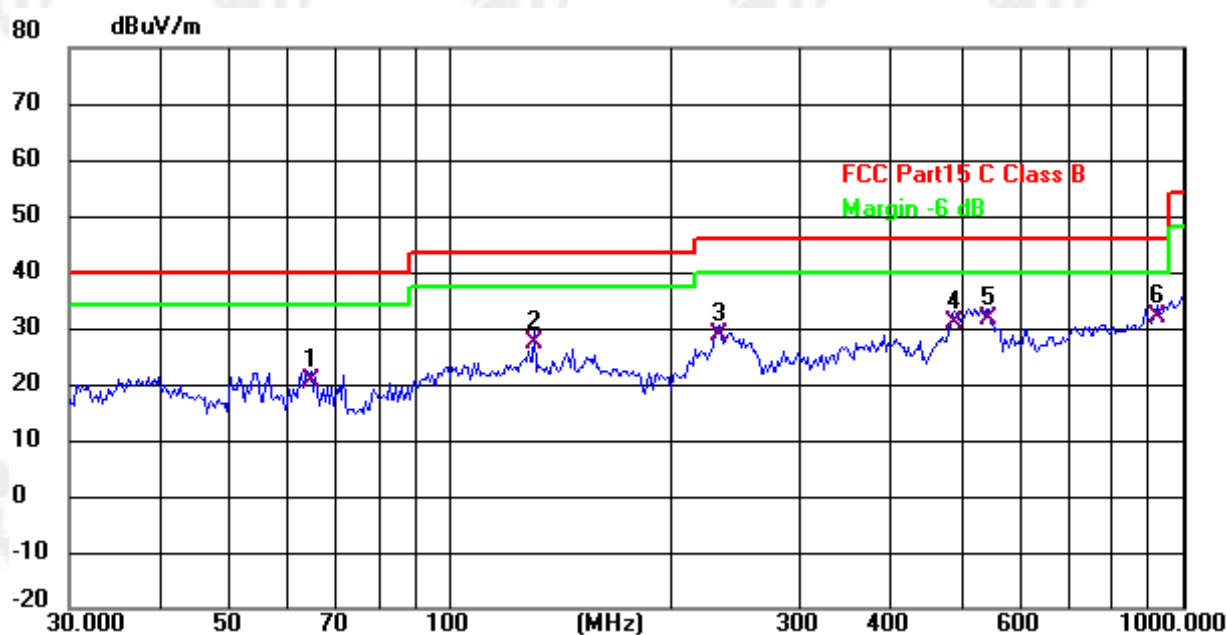
3.4.Test Result

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 1GHz

Radiation Emission Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	DC 5V	Test Mode:	GFSK(CH00)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	64.4330	35.29	-14.89	20.40	40.00	-19.60	QP
2	129.9225	40.92	-13.42	27.50	43.50	-16.00	QP
3	232.5318	43.17	-14.57	28.60	46.00	-17.40	QP
4	489.0267	38.79	-7.89	30.90	46.00	-15.10	QP
5	543.2741	38.00	-6.50	31.50	46.00	-14.50	QP
6 *	925.7562	31.82	0.28	32.10	46.00	-13.90	QP

Note:

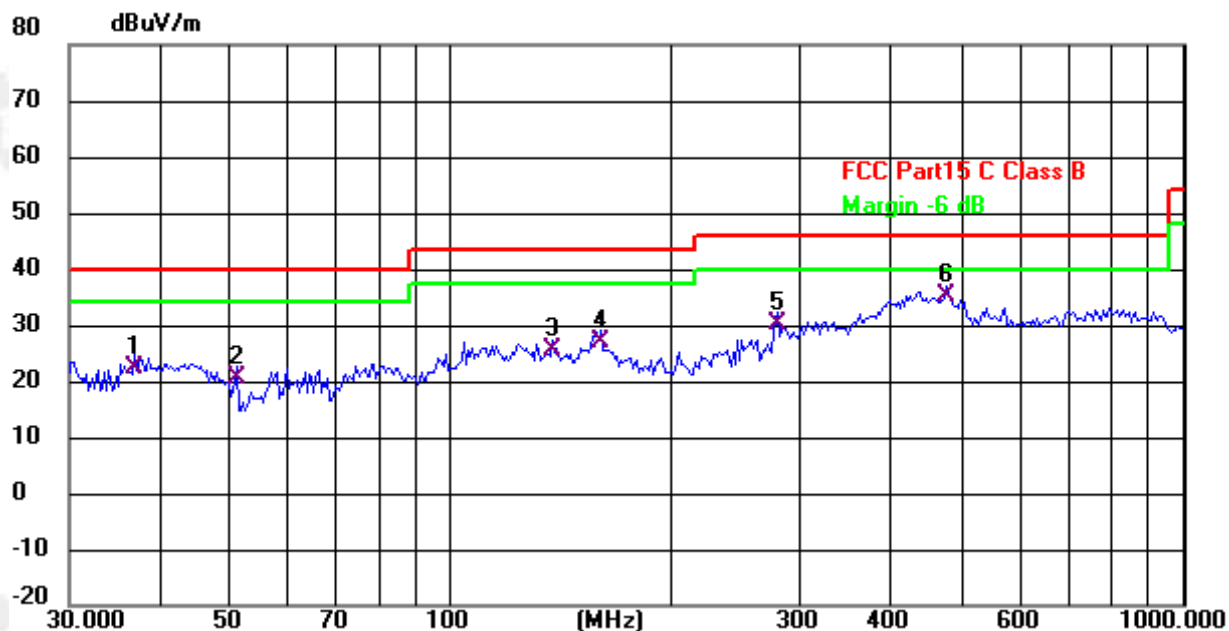
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

Margin=Emission Level-Limit

2. All the modes have tested and recorded the worst mode in the report

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	DC 5V	Test Mode:	GFSK(CH00)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.7661	36.16	-13.76	22.40	40.00	-17.60	QP
2	50.7635	34.11	-13.61	20.50	40.00	-19.50	QP
3	137.4201	38.56	-13.06	25.50	43.50	-18.00	QP
4	160.3455	39.05	-11.95	27.10	43.50	-16.40	QP
5	279.0436	43.35	-13.05	30.30	46.00	-15.70	QP
6 *	475.4990	43.31	-8.21	35.10	46.00	-10.90	QP

Note:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

Margin=Emission Level-Limit

2. All the modes have tested and recorded the worst mode in the report

Field Strength Calculation

Frequency	Reading	Factor	Emission Level	Limits	Margin	Horizontal / Vertical	Detector Type
MHz	dB μ V	dB/m	dB μ V/m	dB μ V/m	dB μ V/m		
2402	94.56	-5.78	88.78	114	-25.22	H	PK
2402	81.58	-5.78	75.8	94	-18.20	H	AV
2402	90.02	-5.78	84.24	114	-29.76	V	PK
2402	78.19	-5.78	72.41	94	-21.59	V	AV
2440	95.02	-5.67	89.35	114	-24.65	H	PK
2440	82.33	-5.67	76.66	94	-17.34	H	AV
2440	90.66	-5.67	84.99	114	-29.01	V	PK
2440	79.01	-5.67	73.34	94	-20.66	V	AV
2480	93.87	-5.45	88.42	114	-25.58	H	PK
2480	80.51	-5.45	75.06	94	-18.94	H	AV
2480	89.23	-5.45	83.78	114	-30.22	V	PK
2480	77.95	-5.45	72.5	94	-21.50	V	AV
Note: 1. Emission Level = Reading + Factor , Margin= Emission Level - Limit							

1GHz~25GHz

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2402MHz									
V	4804.00	50.22	34.12	5.03	32.39	53.52	74.00	-20.48	Pk
V	4804.00	39.26	34.12	5.03	32.39	42.56	54.00	-11.44	AV
V	7206.00	46.50	32.54	6.29	35.86	56.11	74.00	-17.89	Pk
V	7206.00	32.81	32.54	6.29	35.86	42.42	54.00	-11.58	AV
V	9608.00	46.79	32.98	7.55	38.40	59.76	74.00	-14.24	Pk
V	9608.00	30.98	32.98	7.55	38.40	43.95	54.00	-10.05	AV
V	12010.00	45.05	32.09	8.93	39.00	60.89	74.00	-13.11	Pk
V	12010.00	27.93	32.09	8.93	39.00	43.77	54.00	-10.23	AV
H	4804.00	49.07	34.12	5.03	32.39	52.37	74.00	-21.63	Pk
H	4804.00	37.98	34.12	5.03	32.39	41.28	54.00	-12.72	AV
H	7206.00	45.06	32.54	6.29	35.86	54.67	74.00	-19.33	Pk
H	7206.00	30.82	32.54	6.29	35.86	40.43	54.00	-13.57	AV
H	9608.00	46.19	32.98	7.55	38.40	59.16	74.00	-14.84	Pk
H	9608.00	27.85	32.98	7.55	38.40	40.82	54.00	-13.18	AV
H	12010.00	38.55	32.09	8.93	39.00	54.39	74.00	-19.61	Pk
H	12010.00	25.59	32.09	8.93	39.00	41.43	54.00	-12.57	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2440MHz									
V	4880.00	49.83	34.07	5.09	32.59	53.44	74.00	-20.56	Pk
V	4880.00	38.50	34.07	5.09	32.59	42.11	54.00	-11.89	AV
V	7320.00	46.36	32.63	6.34	35.96	56.03	74.00	-17.97	Pk
V	7320.00	35.19	32.63	6.34	35.96	44.86	54.00	-9.14	AV
V	9760.00	42.28	32.92	7.59	38.40	55.35	74.00	-18.65	Pk
V	9760.00	27.62	32.92	7.59	38.40	40.69	54.00	-13.31	AV
V	12200.00	40.66	31.96	8.88	39.04	56.62	74.00	-17.38	Pk
V	12200.00	28.34	31.96	8.88	39.04	44.30	54.00	-9.70	AV
H	4880.00	48.99	34.07	5.09	32.59	52.60	74.00	-21.40	Pk
H	4880.00	40.07	34.07	5.09	32.59	43.68	54.00	-10.32	AV
H	7320.00	46.17	32.63	6.34	35.96	55.84	74.00	-18.16	Pk
H	7320.00	32.96	32.63	6.34	35.96	42.63	54.00	-11.37	AV
H	9760.00	41.02	32.92	7.59	38.40	54.09	74.00	-19.91	Pk
H	9760.00	30.92	32.92	7.59	38.40	43.99	54.00	-10.01	AV
H	12200.00	39.80	31.96	8.88	39.04	55.76	74.00	-18.24	Pk
H	12200.00	29.10	31.96	8.88	39.04	45.06	54.00	-8.94	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2480MHz									
V	4960.00	48.40	34.02	5.15	32.80	52.33	74.00	-21.67	Pk
V	4960.00	35.20	34.02	5.15	32.80	39.13	54.00	-14.87	AV
V	7440.00	44.70	32.71	6.40	36.05	54.44	74.00	-19.56	Pk
V	7440.00	34.52	32.71	6.40	36.05	44.26	54.00	-9.74	AV
V	9920.00	39.49	32.86	7.62	38.40	52.65	74.00	-21.35	Pk
V	9920.00	27.95	32.86	7.62	38.40	41.11	54.00	-12.89	AV
V	12400.00	39.32	31.82	8.84	39.08	55.42	74.00	-18.58	Pk
V	12400.00	26.16	31.82	8.84	39.08	42.26	54.00	-11.74	AV
H	4960.00	46.42	34.02	5.15	32.80	50.35	74.00	-23.65	Pk
H	4960.00	36.99	34.02	5.15	32.80	40.92	54.00	-13.08	AV
H	7440.00	43.61	32.71	6.40	36.05	53.35	74.00	-20.65	Pk
H	7440.00	32.24	32.71	6.40	36.05	41.98	54.00	-12.02	AV
H	9920.00	39.71	32.86	7.62	38.40	52.87	74.00	-21.13	Pk
H	9920.00	28.00	32.86	7.62	38.40	41.16	54.00	-12.84	AV
H	12400.00	39.13	31.82	8.84	39.08	55.23	74.00	-18.77	Pk
H	12400.00	27.08	31.82	8.84	39.08	43.18	54.00	-10.82	AV

Note: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

The 1-25GHz range has been tested, and the report only records the worst performance of the 1-18G range.

Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margi n (dB)	Detec tor Type
GFSK	Low Channel: 2402MHz									
	H	2390.00	57.35	35.17	3.48	27.49	53.15	74.00	-20.85	PK
	H	2390.00	49.40	35.17	3.48	27.49	45.20	54.00	-8.8	AV
	H	2400.00	58.82	35.16	3.49	27.52	54.67	74.00	-19.33	PK
	H	2400.00	49.90	35.16	3.49	27.52	45.75	54.00	-8.25	AV
	V	2390.00	57.04	35.17	3.48	27.49	52.84	74.00	-21.16	PK
	V	2390.00	48.72	35.17	3.48	27.49	44.52	54.00	-9.48	AV
	V	2400.00	58.77	35.16	3.49	27.52	54.62	74.00	-19.38	PK
	V	2400.00	48.91	35.16	3.49	27.52	44.76	54.00	-9.24	AV
	High Channel: 2480MHz									
	H	2483.50	56.86	35.11	3.56	27.75	53.06	74.00	-20.94	PK
	H	2483.50	48.62	35.11	3.56	27.75	44.82	54.00	-9.18	AV
	H	2500.00	58.64	35.10	3.57	27.80	54.91	74.00	-19.09	PK
	H	2500.00	49.29	35.10	3.57	27.80	45.56	54.00	-8.44	AV
	V	2483.50	57.31	35.11	3.56	27.75	53.51	74.00	-20.49	PK
	V	2483.50	49.98	35.11	3.56	27.75	46.18	54.00	-7.82	AV
	V	2500.00	58.33	35.10	3.57	27.80	54.60	74.00	-19.4	PK
	V	2500.00	49.17	35.10	3.57	27.80	45.44	54.00	-8.56	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit										

4. -20 dB Bandwidth Measurement

4.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.215
 Test Method: ANSI C63.10-2020+Cor.1-2023
 47 CFR Part 15.249
 Test Result: PASS

4.2.Test Setup



4.3.Test Procedure

1. Set the spectrum analyzer: RBW = 1%-5% OBW
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by -20 dB relative to the maximum level measured in the fundamental emission

4.4.Test Result

Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	99% OBW (MHz)
GFSK	2402	1.031	0.948
GFSK	2440	1.028	0.969
GFSK	2480	1.028	0.974



-20dB Bandwidth-GFSK 2402MHz



-20dB Bandwidth-GFSK 2440MHz



-20dB Bandwidth-GFSK 2480MHz



5. Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, 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. This product has an integrated antenna fulfill the requirement of this section.

This product has an PCB antenna, and the maximum antenna gain is 2.34 dBi, fulfill the requirement of this section.



6. TEST SETUP & EUT PHOTOGRAPH

Please see the attachment for details.

----- End of Report -----