



TEST REPORT

FCC ID:2AATL-6252C-PUB

Product : Wi-Fi/BT module
Model Name : 6252C-PUB
Brand : **FN-LINK** 欧智通
Report No. : NCT26016496XE1-1

Prepared for

FN-LINK TECHNOLOGY LIMITED

No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha,
Hunan, CHINA

Prepared by

Shenzhen NCT Testing Technology Co., Ltd.

A101&2F B2, Fuqiao 6th Area, Xintian Community, Fuhai Street, Baoan District,
Shenzhen, People's Republic of China

TEL: 400-8868-419

FAX: 86-755-27790922

1 TEST RESULT CERTIFICATION

Applicant's name : FN-LINK TECHNOLOGY LIMITED
Address : No.8, Litong Road, Liuyang Economic & Technical Development Zone,
Changsha, Hunan, CHINA
Manufacture's name : FN-LINK TECHNOLOGY LIMITED
Address : No.8, Litong Road, Liuyang Economic & Technical Development Zone,
Changsha, Hunan, CHINA
Product name : Wi-Fi/BT module
Model name : 6252C-PUB
Standards : FCC CFR47 Part 15 Section 15.247
Test procedure : ANSI C63.10-2020
Test Date : January 30, 2026 - April 10, 2026
Date of Issue : June 5 2026
Test Result : Pass

This device described above has been tested by NCT, 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.

This report shall not be reproduced except in full, without the written approval of NCT, this document may be altered or revised by NCT, personal only, and shall be noted in the revision of the document.

Test Engineer:



Keven Wu / Engineer

Technical Manager:



Henry Wang / Manager

Contents

	Page
1 TEST RESULT CERTIFICATION	2
2 TEST SUMMARY	5
3 TEST FACILITY	6
4 GENERAL INFORMATION	7
4.1 GENERAL DESCRIPTION OF E.U.T.	7
4.2 CHANNEL LIST	8
4.3 TEST SETUP CONFIGURATION	9
4.4 TEST MODE	9
5 EQUIPMENT DURING TEST	10
5.1 EQUIPMENTS LIST	10
5.2 MEASUREMENT UNCERTAINTY	12
5.3 DESCRIPTION OF SUPPORT UNITS	12
6 CONDUCTED EMISSION	13
6.1 E.U.T. OPERATION	13
6.2 EUT SETUP	13
6.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	14
6.4 MEASUREMENT PROCEDURE:	14
6.5 CONDUCTED EMISSION LIMIT	14
6.6 MEASUREMENT DESCRIPTION	14
6.7 CONDUCTED EMISSION TEST RESULT	14
7 RADIATED EMISSIONS	17
7.1 EUT OPERATION	17
7.2 TEST SETUP	18
7.3 SPECTRUM ANALYZER SETUP	19
7.4 TEST PROCEDURE	20
7.5 SUMMARY OF TEST RESULTS	21
8 BAND EDGE COMPLIANCE	28
8.1 TEST STANDARD AND LIMIT	28
8.2 TEST SETUP	28

8.3	TEST PROCEDURE	29
8.4	TEST DATA.....	29
9	ANTENNA REQUIREMENT	33
14.1	TEST STANDARD AND REQUIREMENT.....	33
14.2	ANTENNA CONNECTED CONSTRUCTION.....	33
10	TEST SETUP & EUT PHOTOGRAPH	34
11.1	PHOTOS OF RADIATED EMISSION.....	34
11.2	PHOTOS OF CONDUCTED EMISSION TEST	36
11	EUT PHOTO	37

2 Test Summary

Standard Section	Test Item	Result	Remark
15.203	Antenna Requirement	PASS	
15.207	Conduct Emission	PASS	
15.205(a) 15.209 15.247(d)	Radiated Emission	PASS	
15.247(d) 15.205(a)	Band edge	PASS	

Remark:

1. "N/A" denotes test is not applicable in this Test Report.
2. This change only involved a modification to the antenna; all other parts remained unchanged. Therefore, tests specifically related to the antenna section are necessary. Due to the change in the power supply computer, the Conducted Emission test items need to be retested.

3 TEST FACILITY

Site Description

EMC Lab. : Accredited by CNAS, 2022-09-27

The certificate is valid until 2028.01.07

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2017)

The Certificate Registration Number is L8251

Designation Number: CN1347

Test Firm Registration Number: 894804

Accredited by A2LA, June 14, 2023

The Certificate Registration Number is 6837.01

Accredited by Industry Canada, November 09, 2018

The Conformity Assessment Body Identifier is CN0150

Company Number: 30806

Name of Firm : Shenzhen NCT Testing Technology Co., Ltd.

Site Location : A101&2F B2, Fuqiao 6th Area, Xintian Community, Fuhai Street, Baoan District, Shenzhen, People's Republic of China

4 General Information

4.1 General Description of E.U.T.

Product Name	:	Wi-Fi/BT module
Model Name	:	6252C-PUB
Sample ID	:	NCT26016496X-0001
Sample(s) Status:	:	Engineer sample
Additional model	:	N/A
Difference	:	N/A
Operating frequency	:	2402-2480MHz
Numbers of Channel	:	79 channels
Antenna Type	:	FPC Antenna
Antenna Gain	:	3.92 dBi
Type of Modulation	:	GFSK, $\pi/4$ -DPSK, 8DPSK
Power supply	:	DC 3.3V from USB adapter board
Hardware Version	:	V3.0
Software Version	:	V1.19
Remark: the Antenna gain is provided by customer from Antenna spec. and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.		

4.2 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 C63.10-2020 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 harmonics of the highest fundamental frequency or to 40 GHz, whichever is lower).

The EUT has been tested under TX operating condition.

This EUT is a FHSS system, were conducted to determine the final configuration from all possible combinations. We use software control the EUT, Let EUT hopping on and transmit with highest power, all the modes GFSK, $\pi/4$ -DPSK, 8DPSK have been tested. 79 Channels are provided by EUT. The 3 channels of lower, medium and higher were chosen for test.

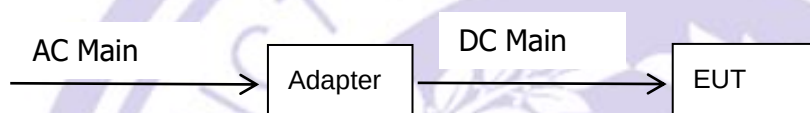
Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	-	-

Channel	Frequency(MHz)
0	2402
39	2441
78	2480

4.3 Test Setup Configuration

Conducted Emission



Radiated Emission



Conducted Spurious



4.4 Test Mode

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	SecureCRT.exe
Power level setup	select test channel, wireless mode, the power level of the test is set to default.

5 Equipment During Test

5.1 Equipments List

Conducted emission Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	944 Room	/	EMToni	2025/1/17	2028/1/16
EMI Test Receiver	ESPI	101604	Rohde & Schwarz	2025/6/10	2026/6/09
LISN	ENV 216	102796	Rohde & Schwarz	2025/6/10	2026/6/09
LISN	VN1-13S	004023	CRANAGE	2025/6/10	2026/6/09
Cable	RG223-1500MM	NA	RG	2025/6/10	2026/6/09

Radiated emission & Radio Frequency Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
Bilog Antenna (30MHz-1GHz)	VULB9162	00473	SCHWARZBECK	2025/3/08	2026/3/07
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHWARZBECK	2025/3/10	2026/3/09

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2025/1/17	2028/1/16
EMI Test Receiver	ESCI	101178	Rohde & Schwarz	2025/6/10	2026/6/09
Spectrum Analyze (10Hz-26.5GHz)	N9020A	MY50510202	Agilent	2025/6/10	2026/6/09
Amplifi (30MHz-1GHz)	BBV 9743 B	00374	SCHWARZBECK	2025/6/10	2026/6/09
Bilog Antenna (30MHz-1GHz)	VULB9162	00473	SCHWARZBECK	2026/3/07	2027/3/06
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHWARZBECK	2026/3/07	2027/3/06
Pream plifier (1GHz-18GHz)	BBV 9718D	00042	SCHWARZBECK	2025/6/10	2026/6/09
Spectrum Analyze (1GHz-40GHz)	FSV 40	100952	Rohde & Schwarz	2025/6/10	2026/6/09

Pream plifier (15GHz-40GHz)	BBV 9721	0056	SCHWARZBECK	2025/6/10	2026/6/09
Broadband Antenna (15GHz-40GHz)	SAS-574	588	A.H.System	2025/6/10	2026/6/09
Loop Antenna (9KHz-30MHz)	FMZB1519B	014	SCHWARZBECK	2025/6/13	2026/6/12
Capacitive voltage probe	CVP 9222 C	00109	SCHWARZBECK	2025/6/10	2026/6/09
MXG Signal Analyzer	N9020A	MY50510202	Agilent	2025/6/10	2026/6/09
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2025/6/10	2026/6/09
MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2025/6/10	2026/6/09
Power Meter	ML2485A	319502	Aritsu	2025/6/10	2026/6/09
Power Sensor	TR1029-2	512364	Techoy	2025/6/10	2026/6/09
RF Swith	TR1029-1	512364	Techoy	2025/6/10	2026/6/09
Cable	DA800- 4000MM	NA	DA	2025/6/10	2026/6/09
Cable	DA800- 11000MM	NA	DA	2025/6/10	2026/6/09
High Pass Filter	HXHPF-3G-S	202507220001	luanwei	2025/6/10	2026/6/09
Attenuator	SN-SMA-10	N/A	SNIT	2025/6/10	2026/6/09

Other

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

5.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 × 10 ⁻⁶
Bandwidth	± 1.5 × 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
Radiated Emission(25GHz~40GHz)	±3.38dB
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%	

5.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Wi-Fi/BT module	N/A	6252C-PUB	N/A	EUT
E-2	Notebook	Thinkpad	E14	N/A	Auxiliary

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

6 Conducted Emission

Test Requirement: : FCC CFR 47 Part 15 Section 15.207
Test Method: : ANSI C63.10-2020
Test Result: : PASS
Frequency Range: : 150kHz to 30MHz
Class/Severity: : Class B
Detector: : Peak for pre-scan (9kHz Resolution Bandwidth)

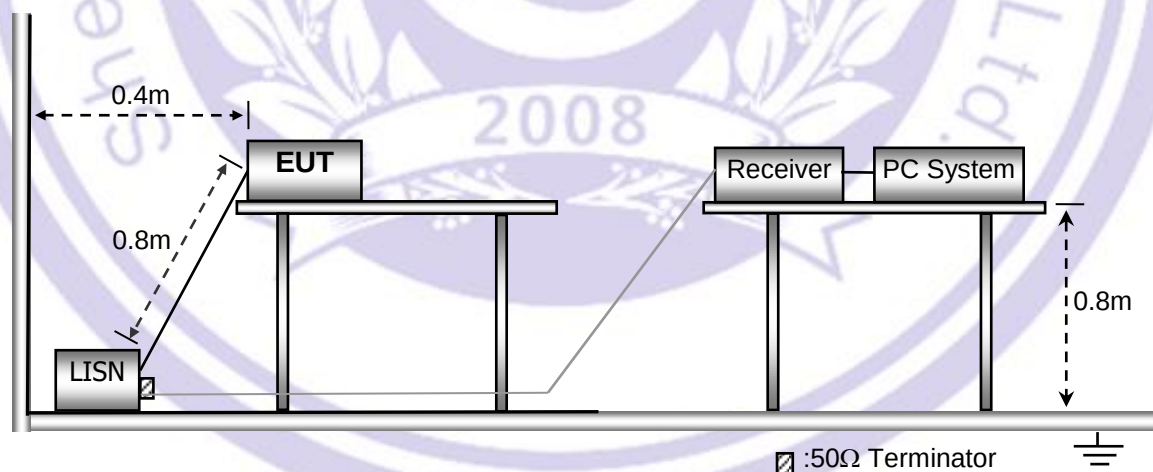
6.1 E.U.T. Operation

Operating Environment :

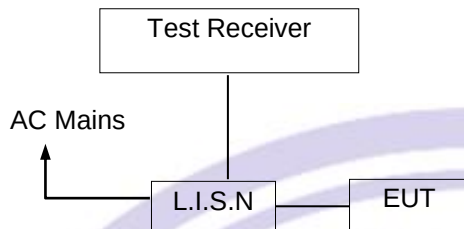
Temperature: : 23.2°C
Humidity: : 51 % RH
Atmospheric Pressure: : 101.12 kPa
Test Voltage : AC 120V/60Hz

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020



6.3 Test SET-UP (Block Diagram of Configuration)



6.4 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.

6.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	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.

6.6 Measurement Description

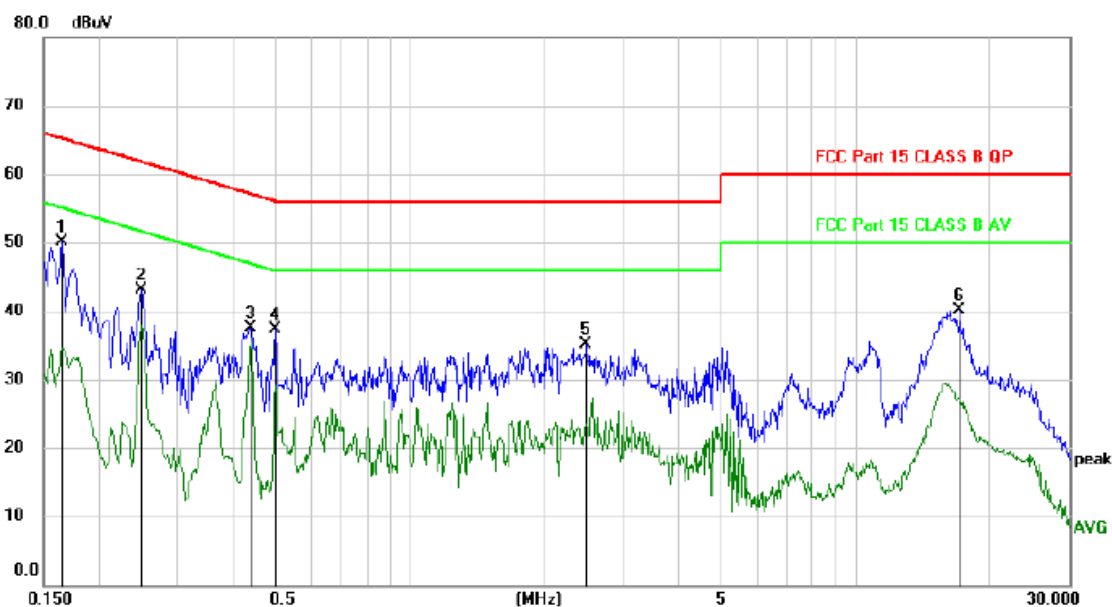
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.7 Conducted Emission Test Result

PASS. (See below detailed test data)

Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

Line:



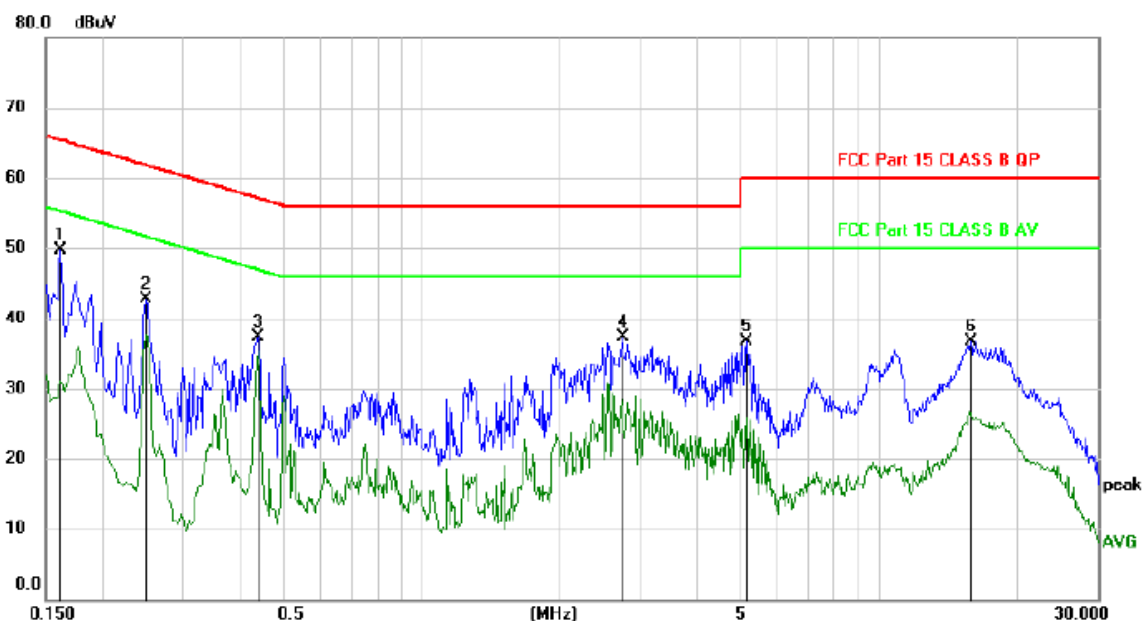
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1650	40.09	9.93	50.02	65.21	-15.19	peak	
2		0.2490	33.19	9.97	43.16	61.79	-18.63	peak	
3		0.4380	27.65	9.95	37.60	57.10	-19.50	peak	
4		0.4980	27.31	9.96	37.27	56.03	-18.76	peak	
5		2.4840	25.11	9.91	35.02	56.00	-20.98	peak	
6		17.0220	29.74	10.39	40.13	60.00	-19.87	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Neutral:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1620	39.77	9.93	49.70	65.36	-15.66	peak	
2		0.2490	32.66	9.97	42.63	61.79	-19.16	peak	
3		0.4380	27.45	9.95	37.40	57.10	-19.70	peak	
4		2.7390	27.40	9.92	37.32	56.00	-18.68	peak	
5		5.1149	26.65	10.04	36.69	60.00	-23.31	peak	
6		15.8340	26.39	10.35	36.74	60.00	-23.26	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Note: This report shows the worst-case testing mode, with TX 2441MHz being the worst-case mode. (GFSK)

7 Radiated Emissions

Test Requirement : FCC CFR47 Part 15 Section 15.209 & 15.247
Test Method : ANSI C63.10-2020
Test Result : PASS
Measurement Distance : 3m
Limit : See the follow table

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	$20\log^{(500)}$

7.1 EUT Operation

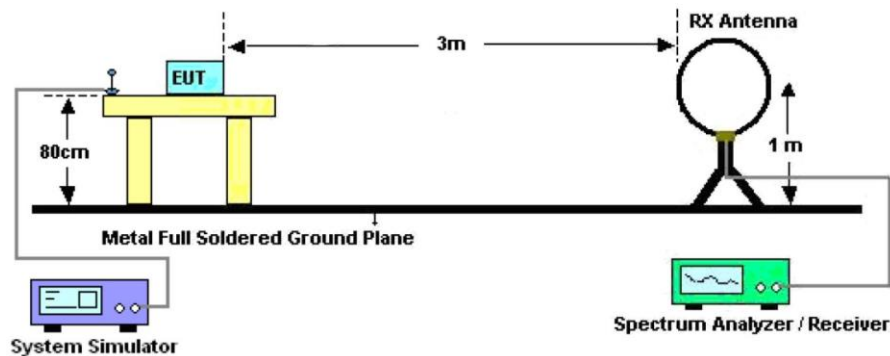
Operating Environment :

Temperature : 24.5 °C
Humidity : 55.5% RH
Atmospheric Pressure : 101.3kPa
Test Voltage : AC 120V60Hz

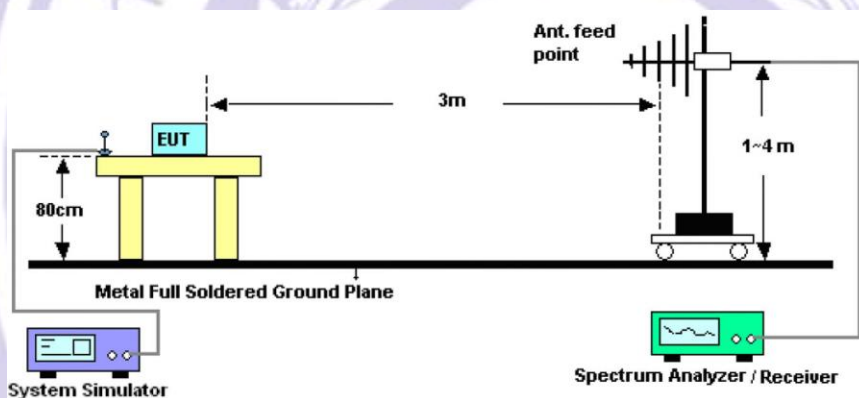
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

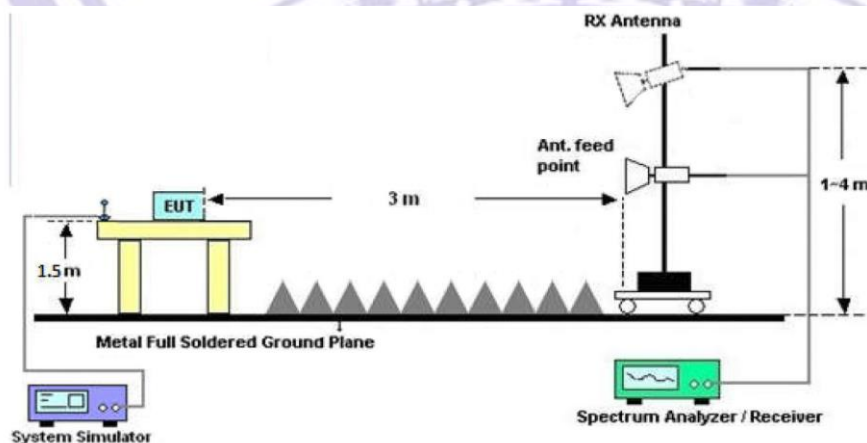
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

7.4 Test Procedure

1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10-2020.
2. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane. And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (From 1m to 4m) and turntable (from 0 degree to 360 degree) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Final measurement (Above 1GHz): The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The EMI Receiver set to peak and average mode and a resolution bandwidth of 1MHz. The measurement will be performed in horizontal and vertical polarization of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 degree to 360 degree in order to have the antenna inside the cone of radiation.
7. Test Procedure of measurement (For Above 1GHz):
 - 1) Monitor the frequency range at horizontal polarization and move the antenna over all sides of the EUT(if necessary move the EUT to another orthogonal axis).
 - 2) Change the antenna polarization and repeat 1) with vertical polarization.
 - 3) Make a hardcopy of the spectrum.
 - 4) Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
 - 5) Change the analyser mode to Clear/ Write and found the cone of emission.
 - 6) Rotate and move the EUT, so that the measuring distance can be enlarged to 3m and the antenna will be still inside the cone of emission.
 - 7) Measure the level of the detected frequency with the correct resolution bandwidth, with the antenna polarization and azimuth and the peak and average detector, which causes the maximum emission.
 - 8) Repeat steps 1) to 7) for the next antenna spot if the EUT is larger than the antenna beamwidth.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.

7.5 Summary of Test Results

We have scanned from 9kHz to the 10th harmonic of the EUT's highest frequency. Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

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

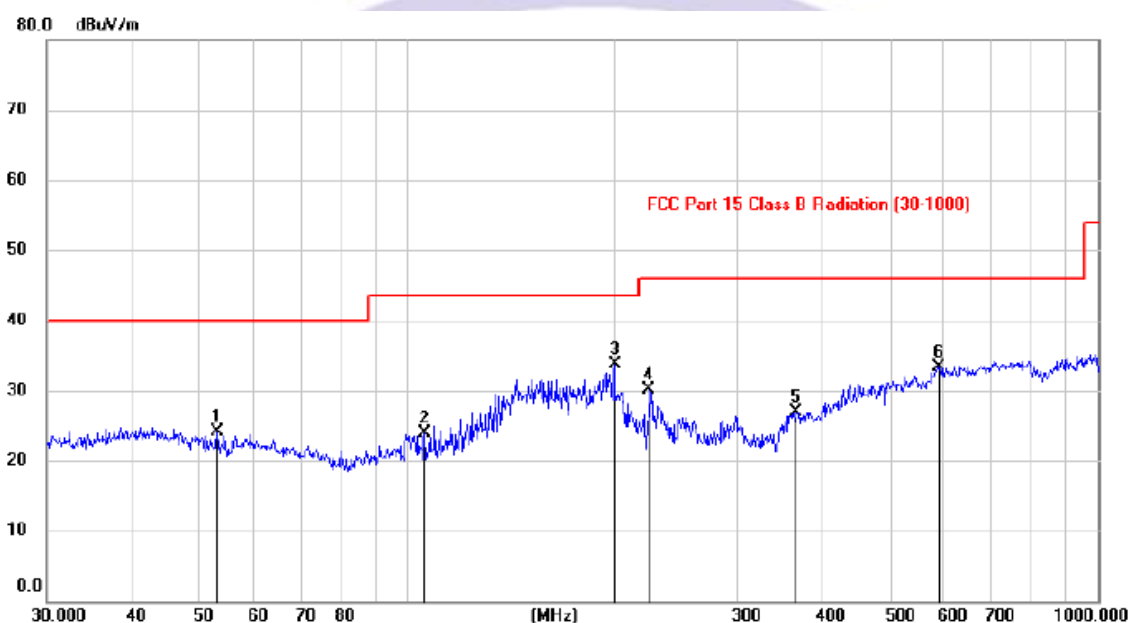
Distance extrapolation factor = $40\log(\text{Specific distance} / \text{test distance})$ (dB);

Limit line = Specific limits(dBuV) + distance extrapolation factor.

2. Only show the test data of the worst Channel in this report.

From 30MHz to 1000MHz: Conclusion: PASS

Test plot for Horizontal

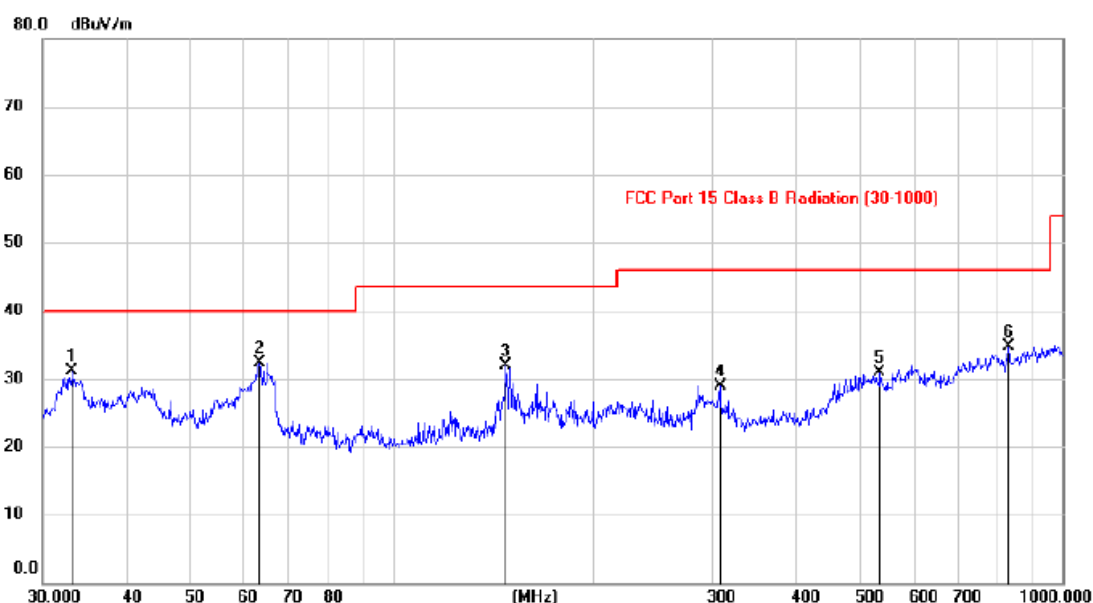


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		53.0195	10.32	13.72	24.04	40.00	-15.96	peak		
2		105.6414	12.57	11.40	23.97	43.50	-19.53	peak		
3	*	199.4018	22.73	10.93	33.66	43.50	-9.84	peak		
4		224.3094	18.18	11.99	30.17	46.00	-15.83	peak		
5		366.2659	11.35	15.56	26.91	46.00	-19.09	peak		
6		589.3182	13.32	20.01	33.33	46.00	-12.67	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Test plot for Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		33.2616	17.43	13.67	31.10	40.00	-8.90	peak		
2	*	63.1580	19.88	12.51	32.39	40.00	-7.61	peak		
3		147.8866	17.03	14.90	31.93	43.50	-11.57	peak		
4		308.3713	14.67	14.30	28.97	46.00	-17.03	peak		
5		534.6438	11.96	18.93	30.89	46.00	-15.11	peak		
6		830.8854	11.56	23.21	34.77	46.00	-11.23	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Notes: Above is below 1GHz test data. This report only shall the worst case mode for TX 2441MHz.(GFSK)

Test Frequency 1GHz-25GHz

Test Mode: GFSK TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	45.77	V	33.95	10.18	34.26	55.64	74	-18.36	PK
4804	36.71	V	33.95	10.18	34.26	46.58	54	-7.42	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	45.09	H	33.95	10.18	34.26	54.96	74	-19.04	PK
4804	37.63	H	33.95	10.18	34.26	47.50	54	-6.50	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: GFSK TX Mid									
4882	44.74	V	33.93	10.2	34.29	54.58	74	-19.42	PK
4882	37.01	V	33.93	10.2	34.29	46.85	54	-7.15	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
4882	45.49	H	33.93	10.2	34.29	55.33	74	-18.67	PK
4882	33.55	H	33.93	10.2	34.29	43.39	54	-10.61	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
Test Mode: GFSK TX High									
4960	46.27	V	33.93	10.2	34.29	56.11	74	-17.89	PK
4960	33.99	V	33.93	10.2	34.29	43.83	54	-10.17	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	43.23	H	33.93	10.2	34.29	53.07	74	-20.93	PK
4960	32.22	H	33.93	10.2	34.29	42.06	54	-11.94	AV

7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/

Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with

FCC limit.

Test Mode: $\pi/4$ DPSK TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	46.54	V	33.95	10.18	34.26	56.41	74	-17.59	PK
4804	37.69	V	33.95	10.18	34.26	47.56	54	-6.44	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	44.94	H	33.95	10.18	34.26	54.81	74	-19.19	PK
4804	35.28	H	33.95	10.18	34.26	45.15	54	-8.85	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: $\pi/4$ DPSK TX Mid									
4882	43.86	V	33.93	10.2	34.29	53.70	74	-20.30	PK
4882	34.80	V	33.93	10.2	34.29	44.64	54	-9.36	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
4882	43.36	H	33.93	10.2	34.29	53.20	74	-20.80	PK
4882	34.13	H	33.93	10.2	34.29	43.97	54	-10.03	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/

Test Mode: $\pi/4$ DPSK TX High									
4960	45.28	V	33.93	10.2	34.29	55.12	74	-18.88	PK
4960	32.95	V	33.93	10.2	34.29	42.79	54	-11.21	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	42.84	H	33.93	10.2	34.29	52.68	74	-21.32	PK
4960	34.73	H	33.93	10.2	34.29	44.57	54	-9.43	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
Note: 1, Result = Read level + Antenna factor + cable loss-Amp factor 2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

Test Mode: 8DPSK TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	46.42	V	33.95	10.18	34.26	56.29	74	-17.71	PK
4804	36.63	V	33.95	10.18	34.26	46.50	54	-7.50	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	46.51	H	33.95	10.18	34.26	56.38	74	-17.62	PK
4804	36.39	H	33.95	10.18	34.26	46.26	54	-7.74	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/

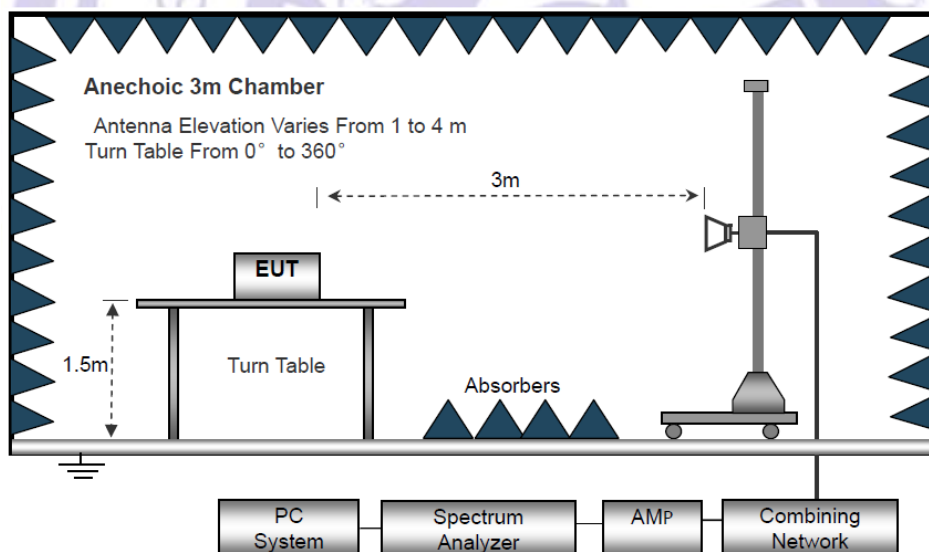
Test Mode: 8DPSK TX Mid									
4882	41.36	V	33.93	10.2	34.29	51.20	74	-22.80	PK
4882	34.32	V	33.93	10.2	34.29	44.16	54	-9.84	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
4882	43.17	H	33.93	10.2	34.29	53.01	74	-20.99	PK
4882	36.09	H	33.93	10.2	34.29	45.93	54	-8.07	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
Test Mode: 8DPSK TX High									
4960	45.15	V	33.93	10.2	34.29	54.99	74	-19.01	PK
4960	34.39	V	33.93	10.2	34.29	44.23	54	-9.77	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	41.71	H	33.93	10.2	34.29	51.55	74	-22.45	PK
4960	32.59	H	33.93	10.2	34.29	42.43	54	-11.57	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
Note: 1, Result = Read level + Antenna factor + cable loss-Amp factor 2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

8 Band Edge Compliance

8.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

8.2 Test Setup



8.3 Test Procedure

Details see the KDB 558074 D01 15.247 Meas Guidance v05r02

8.3.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

8.3.2 Check the spurious emissions out of band.

8.3.3 RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 3MHz, RMS detector for AV value.

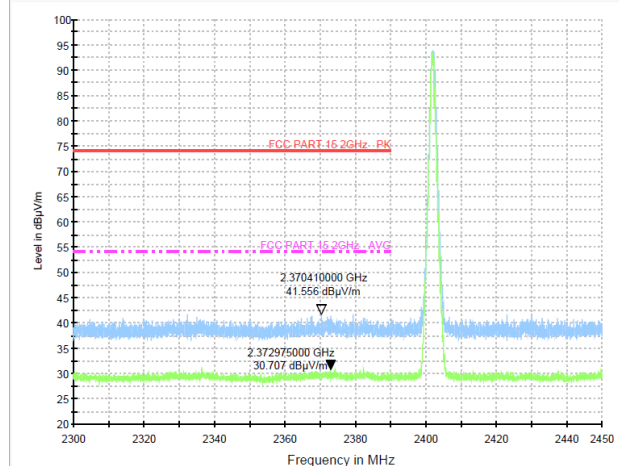
All restriction band and non- restriction band have been tested, only worse case is reported.

8.4 Test Data

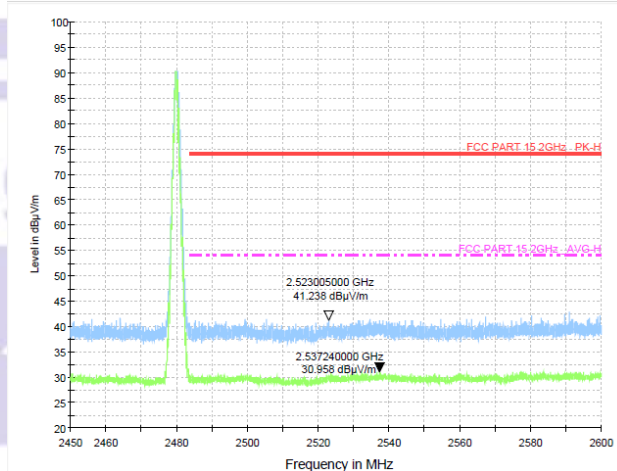
PASS.

Detailed information please see the following page.

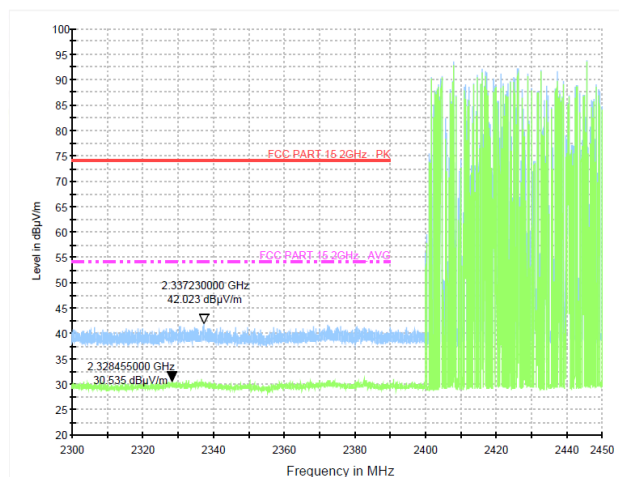
Test Mode: GFSK-Low Hopping-off



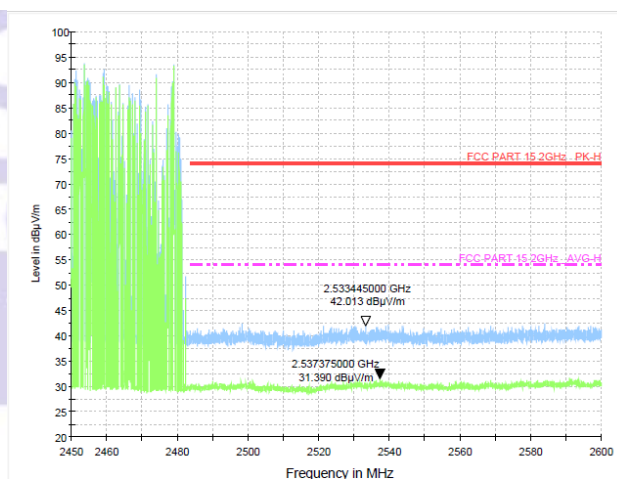
Test Mode: GFSK-High Hopping-off



Test Mode: GFSK-Low Hopping-on



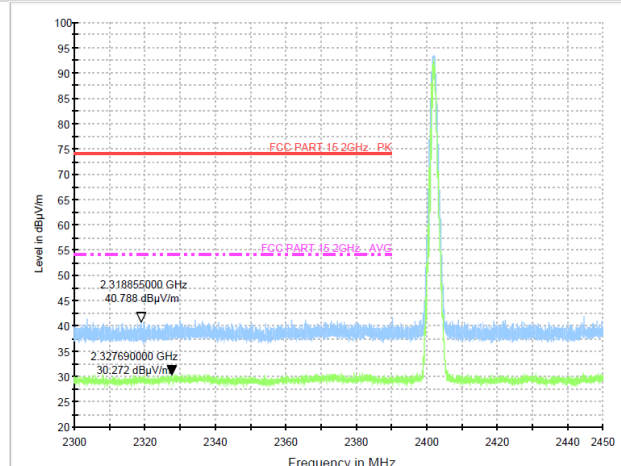
Test Mode: GFSK-High Hopping-on



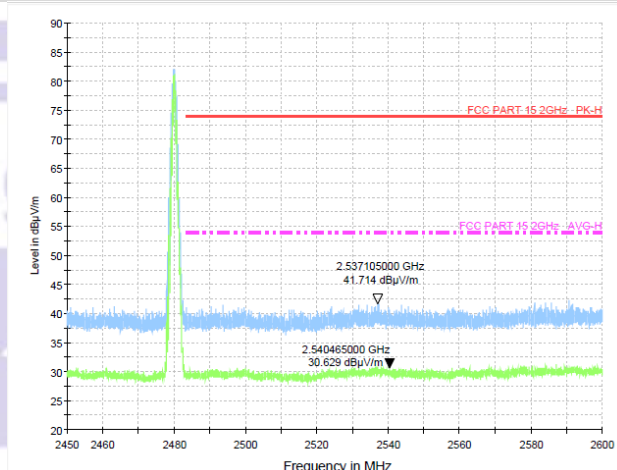
Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

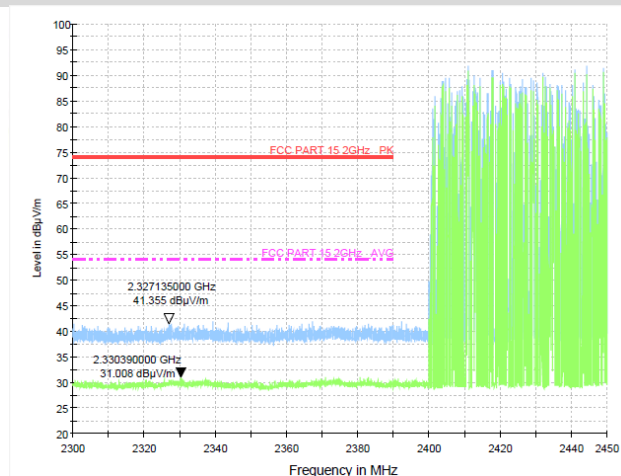
Test Mode: $\pi/4$ DPSK-Low Hopping-off



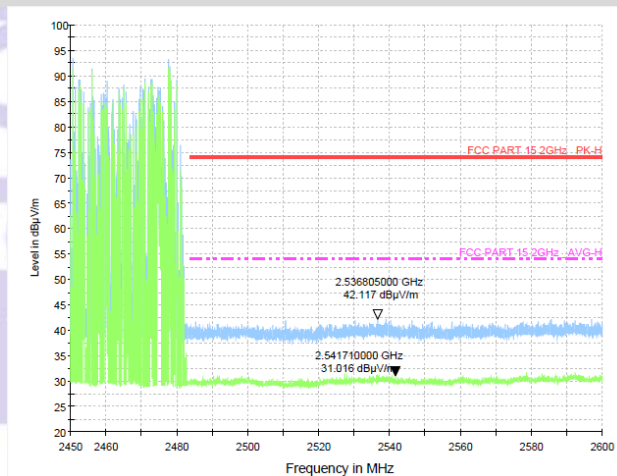
Test Mode: $\pi/4$ DPSK-High Hopping-off



Test Mode: $\pi/4$ DPSK-Low Hopping-on



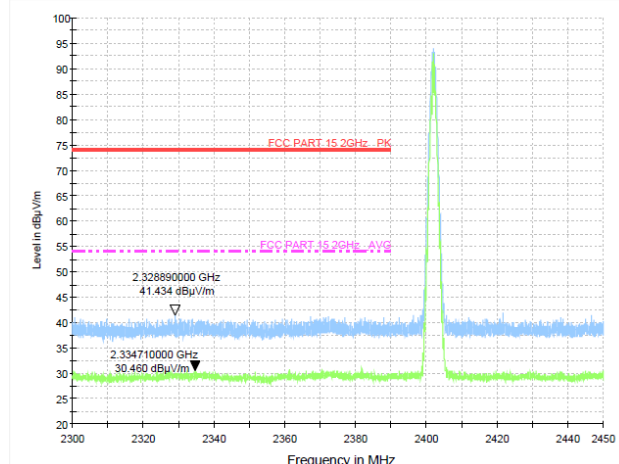
Test Mode: $\pi/4$ DPSK-High Hopping-on



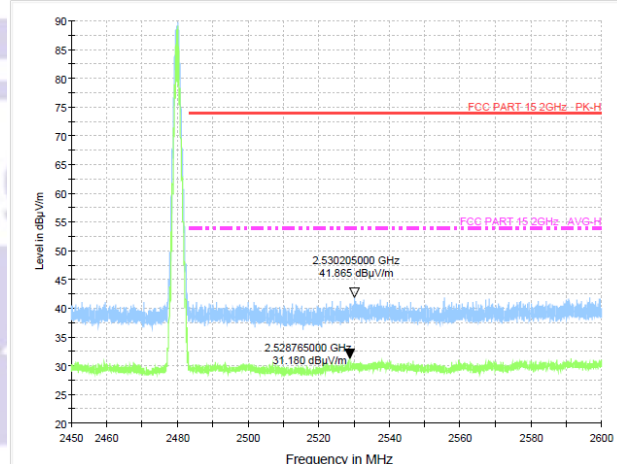
Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

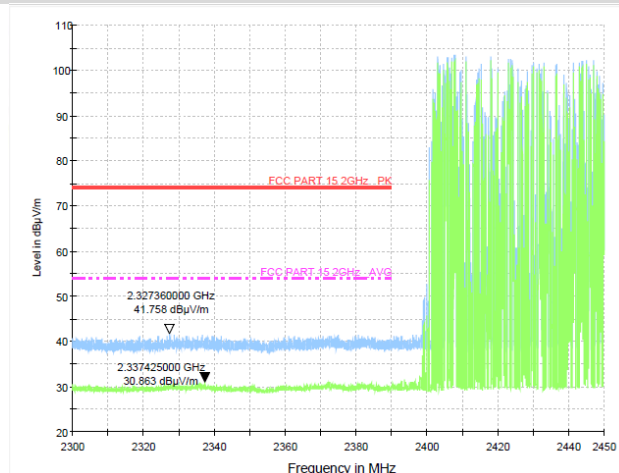
Test Mode: 8DPSK-Low Hopping-off



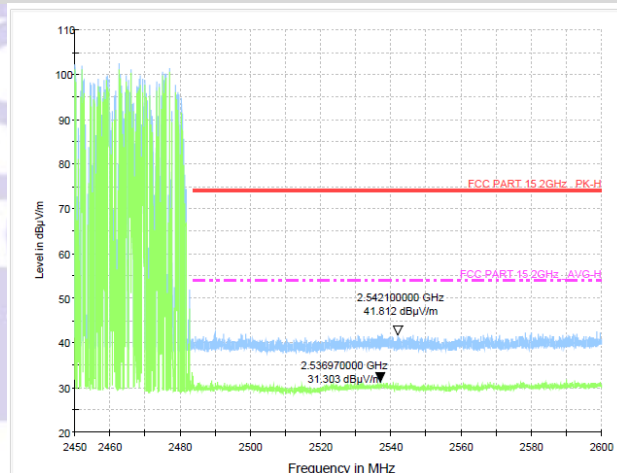
Test Mode: 8DPSK-High Hopping-off



Test Mode: 8DPSK-Low Hopping-on



Test Mode: 8DPSK-High Hopping-on



Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

9 Antenna Requirement

14.1 Test Standard and Requirement

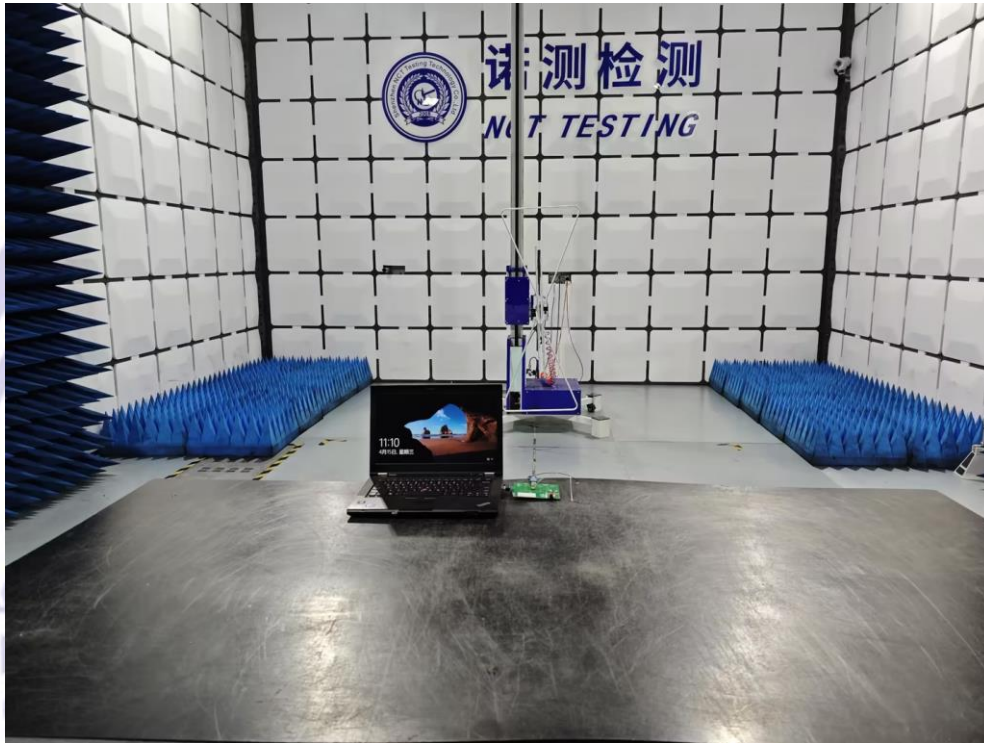
Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses 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. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

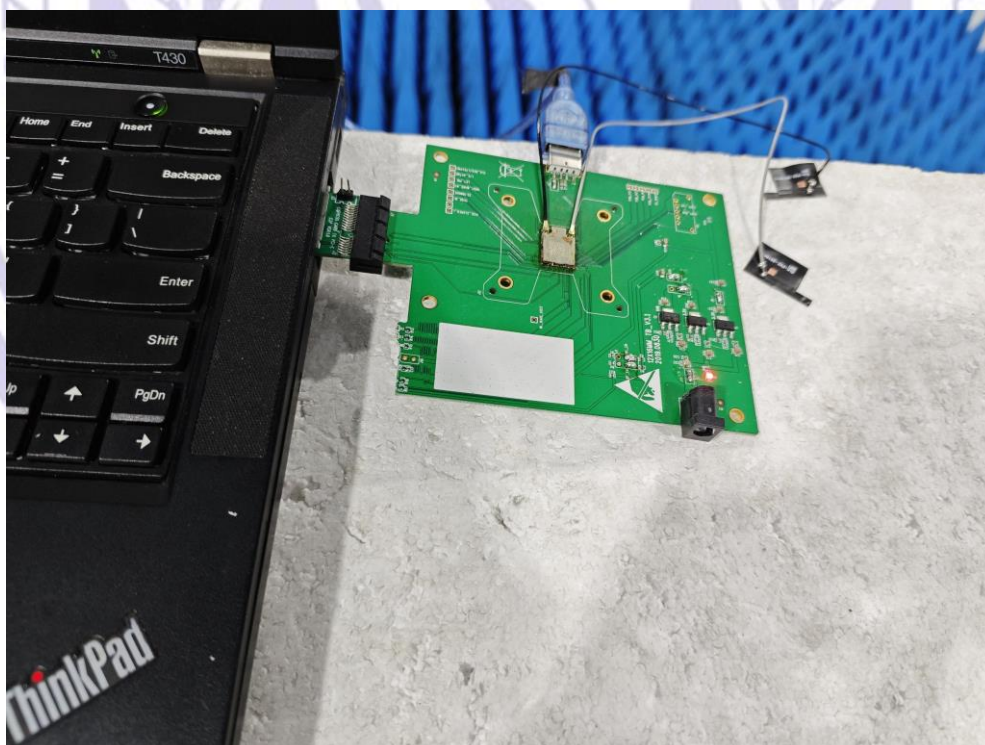
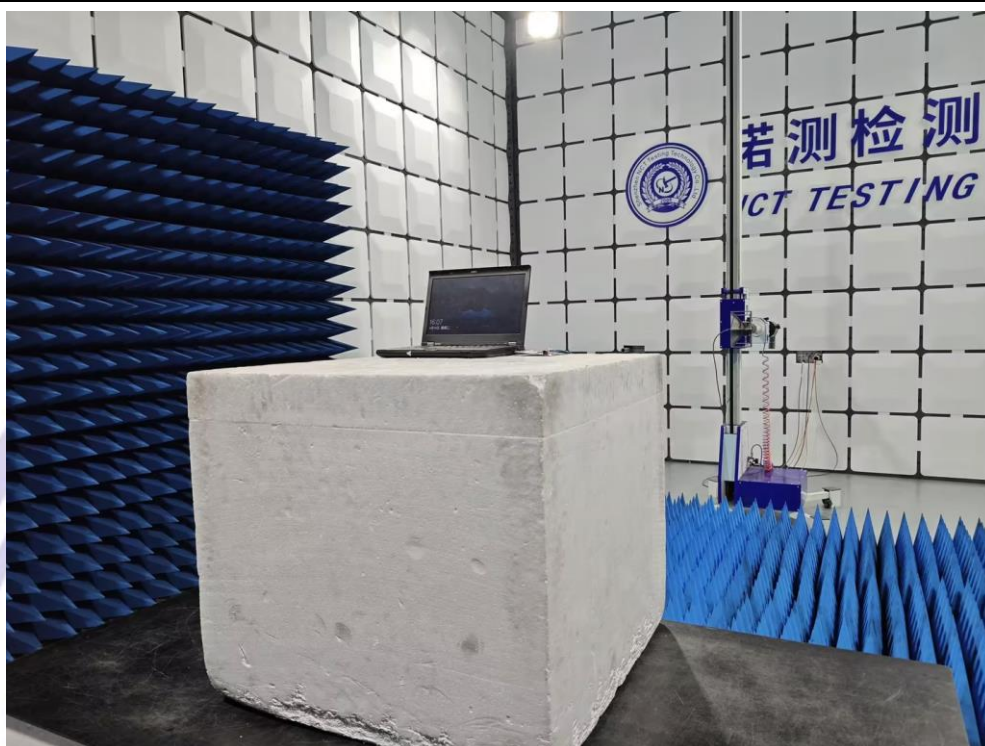
14.2 Antenna Connected Construction

The antenna is FPC Antenna which permanently attached, and the best case gain of the antenna is 3.92 dBi. It complies with the standard requirement.

10 TEST SETUP & EUT PHOTOGRAPH

11.1 Photos of Radiated emission





11.2 Photos of Conducted Emission test



11 EUT photo

