



TEST REPORT

FCC ID: 2AATL-6252C-PUB

Product : Wi-Fi/BT module
Model Name : 6252C-PUB
Brand : **FN-LINK** 欧智通
Report No. : NCT26016496XE1-3

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,B2,Fuqiao 6th Area ,xintian Community,Fuhai Street,Baoan
District,Shenzhen,China

TEL: 400-8868-419

1 TEST RESULT CERTIFICATION

Applicant : FN-LINK TECHNOLOGY LIMITED
Address : No.8, Litong Road, Liuyang Economic & Technical Development Zone,
Changsha, Hunan, CHINA
Manufacturer : 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
Date of test : January 30, 2026 to April 10, 2026
Date of Issue : June 5 2026

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.

Prepared by:

Shine Wu

Shine Wu

Reviewer:

Keven Wu

Keven Wu

Approved:

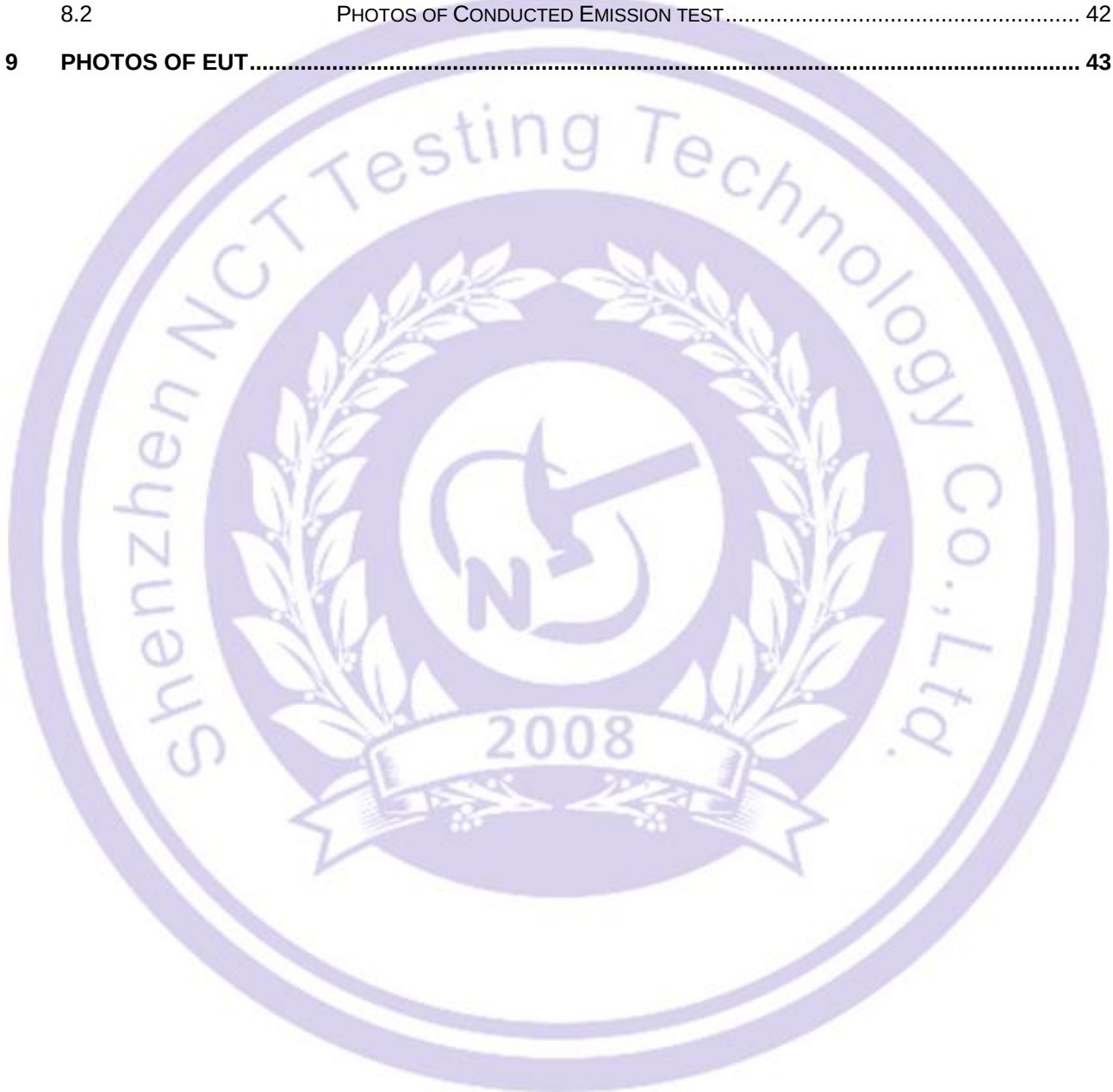
Henry Wang

Henry Wang

Contents

	Page
1 TEST RESULT CERTIFICATION.....	2
2 TEST SUMMARY	5
3 GENERAL INFORMATION	6
3.1 GENERAL DESCRIPTION OF E.U.T.	6
3.2 CHANNEL LIST	7
3.3 TEST SITE	8
3.4 TEST SETUP CONFIGURATION	8
3.5 TEST CONFIGURATION	9
4 EQUIPMENT DURING TEST	10
4.1 EQUIPMENTS LIST	10
4.2 MEASUREMENT UNCERTAINTY	12
4.3 DESCRIPTION OF SUPPORT UNITS	12
5 CONDUCTED EMISSION	13
5.1 E.U.T. OPERATION	13
5.2 EUT SETUP.....	13
5.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	14
5.4 MEASUREMENT PROCEDURE.....	14
5.5 CONDUCTED EMISSION LIMIT.....	14
5.6 MEASUREMENT DESCRIPTION.....	14
5.7 CONDUCTED EMISSION TEST RESULT	14
6 RADIATED SPURIOUS EMISSIONS	17
6.1 EUT OPERATION	17
6.2 TEST SETUP	18
6.3 SPECTRUM ANALYZER SETUP.....	19
6.4 TEST PROCEDURE	20
6.5 SUMMARY OF TEST RESULTS	21
7 ANTENNA APPLICATION	39
7.1 ANTENNA REQUIREMENT	39

7.2	RESULT	39
8	TEST SETUP AND EUT PHOTOS.....	40
8.1	PHOTO OF RADIATED EMISSION TEST.....	40
8.2	PHOTOS OF CONDUCTED EMISSION TEST	42
9	PHOTOS OF EUT.....	43



2 Test Summary

Test Items	Test Requirement	Result
Conduct Emission	FCC part 15.207	PASS
Radiated Spurious Emissions	FCC part 15.205/15.209	PASS
Radiated Band Edge Emission	FCC part 15.247(d)	PASS
Antenna Requirement	FCC part 15.203/15.247 (c)	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 General Information

3.1 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
Series Model	:	N/A
Model Different.:	:	N/A
Specification	:	802.11b/g/n/ax HT20/40
Operation Frequency	:	2412-2462MHz for 802.11b/g/n/ax 20 2422-2452MHz for 802.11n/ax 40
Number of Channel	:	11 channels for 802.11b/g/n/ax 20 7 channels for 802.11n/ax 40
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; OFDMA with BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM for 802.11ax;
Antenna installation	:	FPC Antenna
Antenna Gain	:	Antenna 1: max gain 3.92dBi Antenna 2: max gain 3.99dBi
Power supply	:	DC 3.3V from USB adapter board
Adapter	:	N/A
Hardware Version	:	V3.0
Software Version	:	V1.19
Channel Puncturing Function	:	☐ Supported ☒ Unspported
Support RU	:	☒ Full RU ☐ Partial RU
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.		

3.2 Channel List

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0; 802.11ax(HE20): MCS0 were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11b/g/n20/n40/ax20/ax40:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		

Test Frequency and Channel for 802.11 b/g/n/ax (HT20/40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
3	2422	6	2437	9	2452

3.3 Test Site

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.

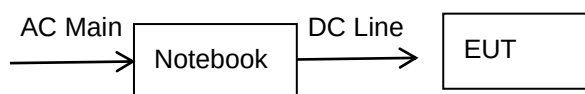
Site Location : A101,B2,Fuqiao 6th Area ,xintian Community,Fuhai Street,Baoan District,Shenzhen,China

3.4 Test Setup Configuration

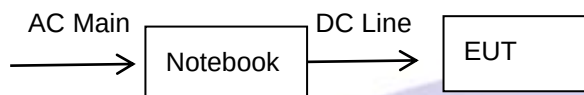
Radiated Emission



Conducted Emission



Radiated Spurious



Conducted Spurious



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

4 Equipment During Test

4.1 Equipments List

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

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

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	RFTTest	V1.0.0
4	RF communication test system	TACHOY	RFTTest	V1.0.0

4.2 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)	±3.24dB
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%	

4.3 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	N/A

Note:

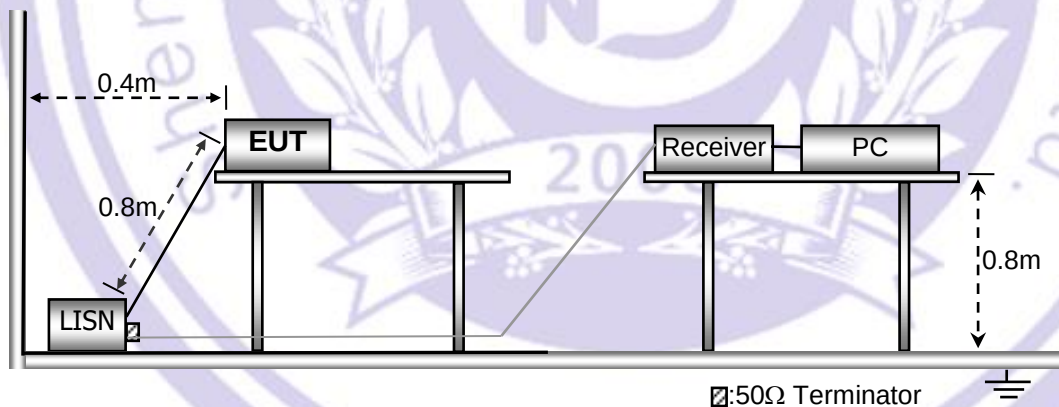
- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

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

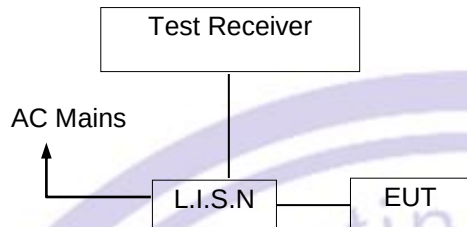
Operating Environment :

Temperature : 24.5 °C
Humidity : 51.3 % RH
Atmospheric Pressure : 101.11kPa

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



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)	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.

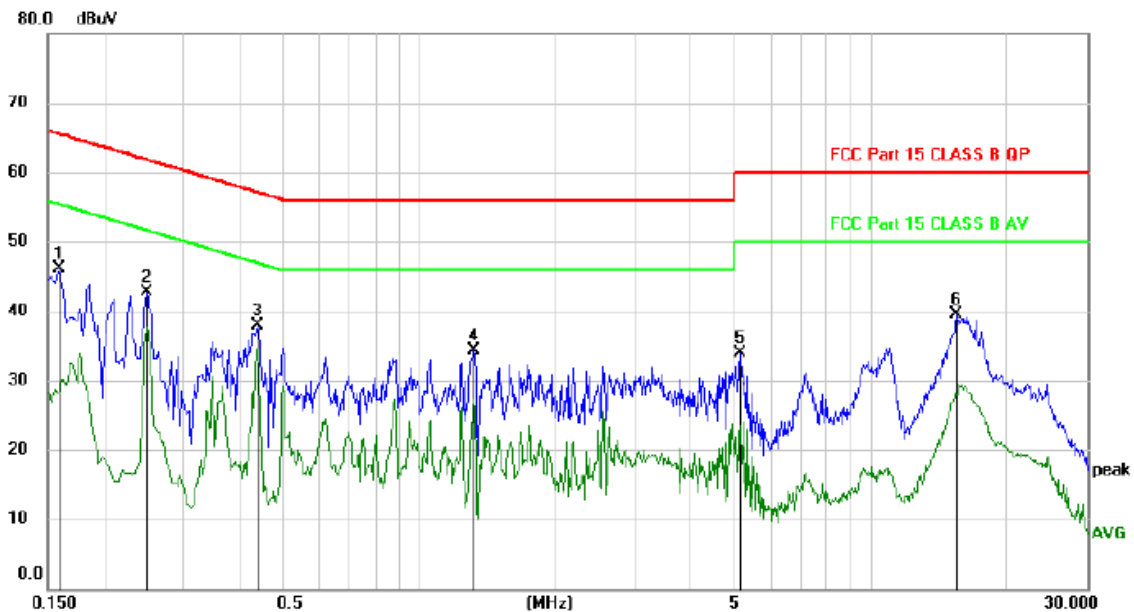
5.6 Measurement Description

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

All the modes have been tested, and only the data of the worst mode 802.11b 2412MHz.

Line:



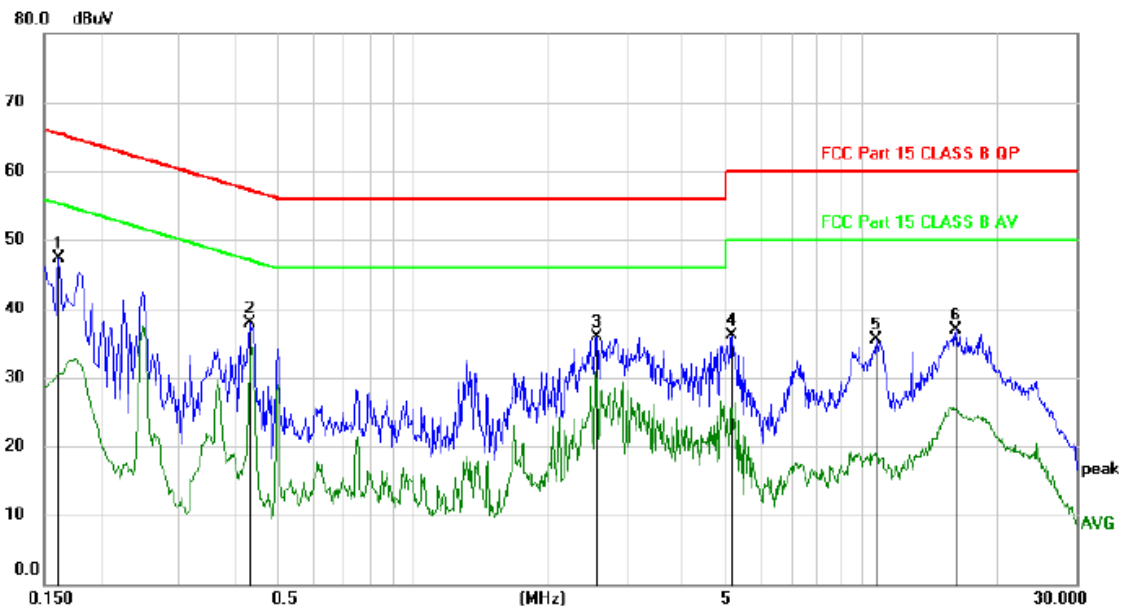
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	36.11	9.94	46.05	65.52	-19.47	peak	
2	*	0.2490	32.69	9.97	42.66	61.79	-19.13	peak	
3		0.4380	27.87	9.95	37.82	57.10	-19.28	peak	
4		1.3200	24.43	9.90	34.33	56.00	-21.67	peak	
5		5.1149	23.86	10.04	33.90	60.00	-26.10	peak	
6		15.3900	29.15	10.34	39.49	60.00	-20.51	peak	

*:Maximum data x:Over limit l: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	37.40	9.93	47.33	65.36	-18.03	peak	
2		0.4320	27.90	9.95	37.85	57.21	-19.36	peak	
3		2.5560	26.02	9.91	35.93	56.00	-20.07	peak	
4		5.1149	26.08	10.04	36.12	60.00	-23.88	peak	
5		10.7760	25.18	10.23	35.41	60.00	-24.59	peak	
6		16.1760	26.58	10.36	36.94	60.00	-23.06	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

6 Radiated Spurious 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	$20\log^{(500)}$

6.1 EUT Operation

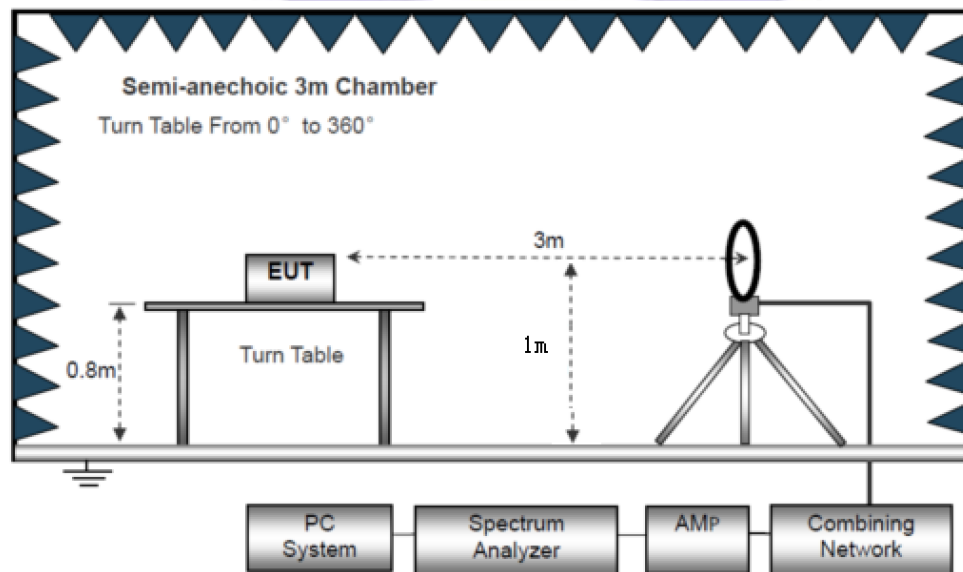
Operating Environment :

Temperature: : 24.5°C
Humidity: : 52 % RH
Atmospheric Pressure: : 101.11kPa

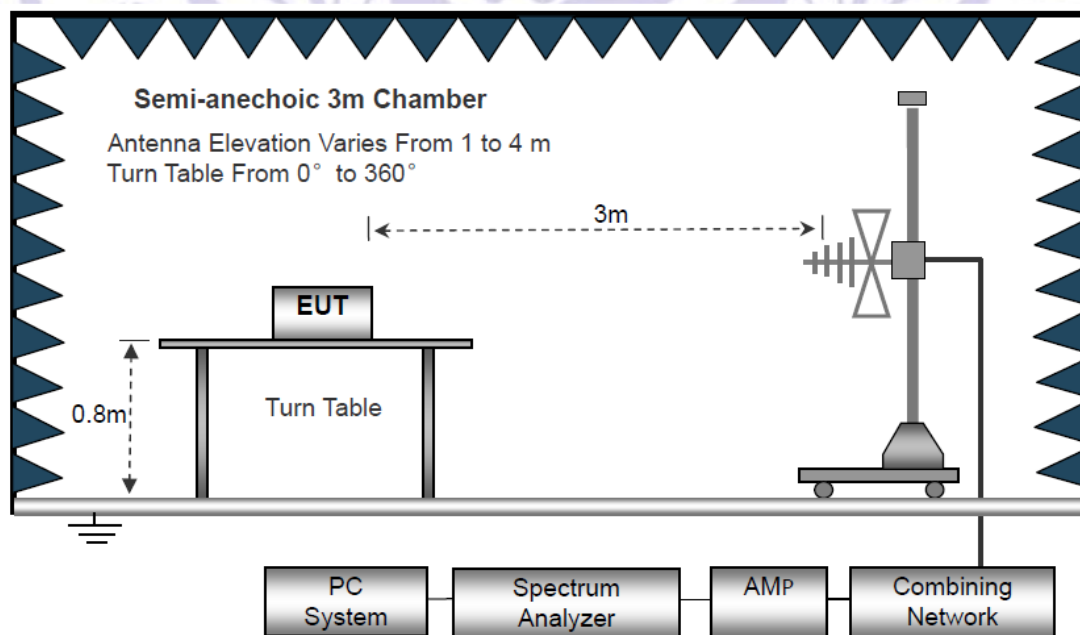
6.2 Test Setup

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

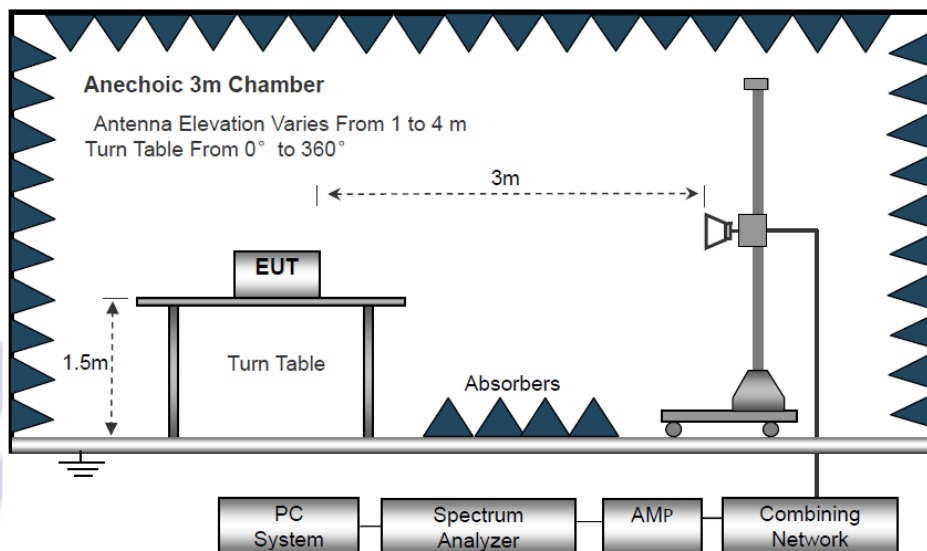
The test setup for emission measurement below 30MHz



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



The test setup for emission measurement above 1 GHz



6.3 Spectrum Analyzer Setup

Below 30MHz			
IF Bandwidth	:	10kHz	
Resolution Bandwidth	:	10kHz	
Video Bandwidth	:	10kHz	
30MHz ~ 1GHz			
Detector	:	PK	QP
Resolution Bandwidth	:	100kHz	120kHz
Video Bandwidth	:	300kHz	300kHz
Above 1GHz			
Detector	:	PK	AV
Resolution Bandwidth	:	1MHz	1MHz
Video Bandwidth	:	3MHz	10Hz

6.4 Test Procedure

1. 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.
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. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
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 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.
8. For tests exceeding 1G, an external band-rejection filter should be connected in series between the receiving antenna and the input end of the test receiver.
9. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room

6.5 Summary of Test Results

Test Condition

Continual Transmitting in maximum power.

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHz~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

We have scanned the EUT from 9kHz up to the 10th harmonic of the fundamental.

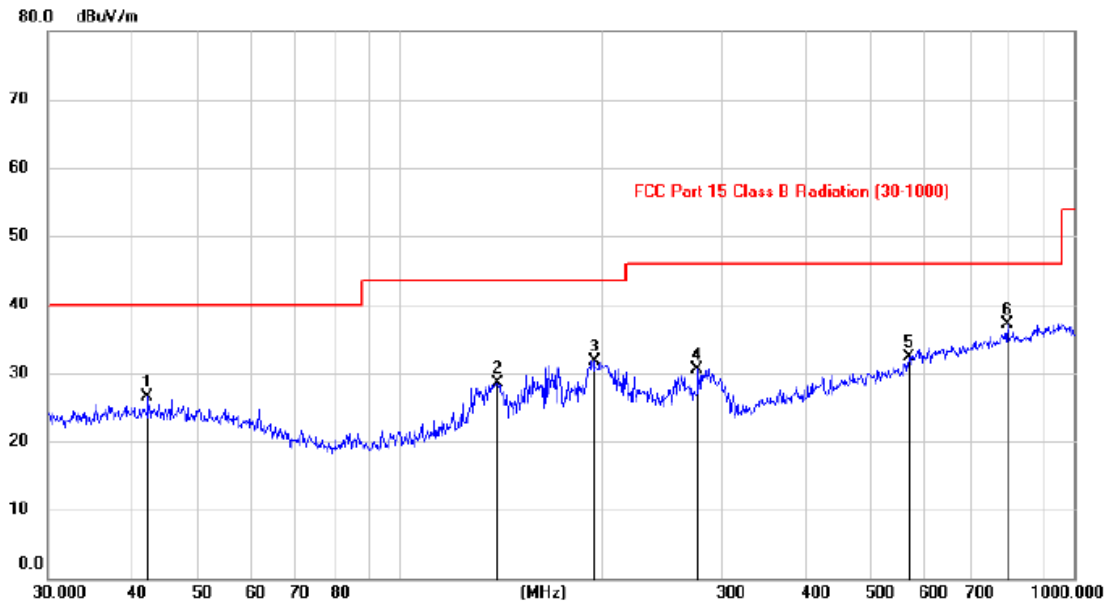
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: 1.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

2. All antennas have been tested, only the worst data of each pattern is reflected.

Horizontal:

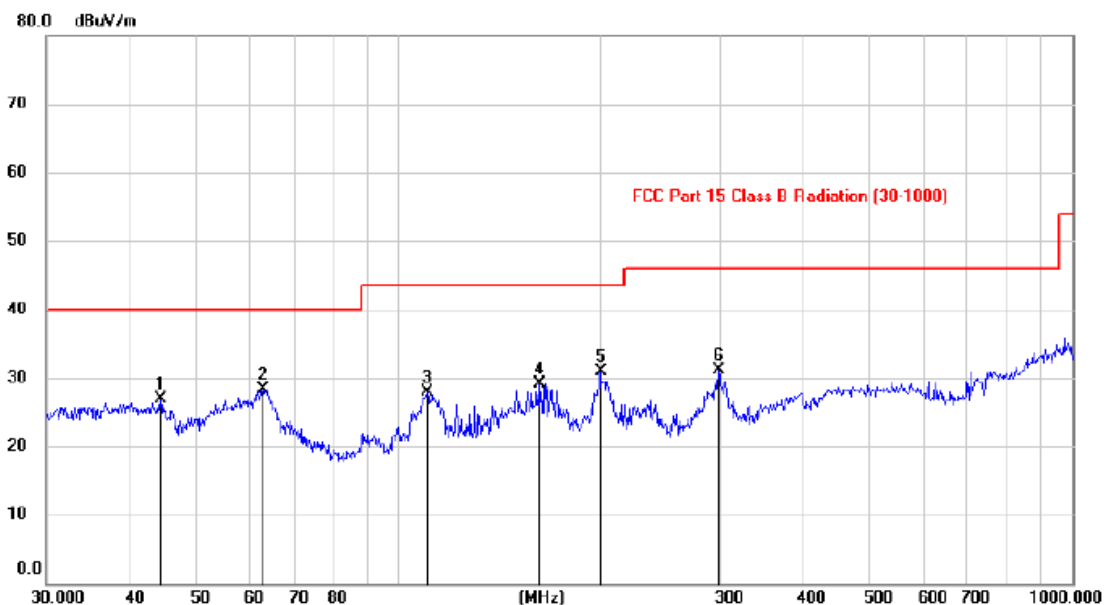


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree	Comment
1		42.1985	12.26	14.32	26.58	40.00	-13.42	peak		
2		139.8180	14.18	14.30	28.48	43.50	-15.02	peak		
3		194.1808	20.53	11.23	31.76	43.50	-11.74	peak		
4		276.7697	17.09	13.48	30.57	46.00	-15.43	peak		
5		568.8785	12.79	19.52	32.31	46.00	-13.69	peak		
6	*	796.6483	14.15	22.88	37.03	46.00	-8.97	peak		

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

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

Vertical:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		44.4151	12.74	14.17	26.91	40.00	-13.09	peak		
2	*	63.0031	15.83	12.51	28.34	40.00	-11.66	peak		
3		110.2074	15.98	11.85	27.83	43.50	-15.67	peak		
4		161.9842	14.32	14.85	29.17	43.50	-14.33	peak		
5		199.6585	20.08	10.92	31.00	43.50	-12.50	peak		
6		298.7565	16.99	14.07	31.06	46.00	-14.94	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 b 2412MHz.

From 1G-25GHz

Test Mode: IEEE 802.11b 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
4824	44.82	V	33.95	10.18	34.26	54.69	74	-19.31	PK
4824	34.50	V	33.95	10.18	34.26	44.37	54	-9.63	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	42.79	H	33.95	10.18	34.26	52.66	74	-21.34	PK
4824	35.40	H	33.95	10.18	34.26	45.27	54	-8.73	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11b TX Mid									
4874	45.36	V	33.93	10.2	34.29	55.20	74	-18.80	PK
4874	32.83	V	33.93	10.2	34.29	42.67	54	-11.33	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	44.22	H	33.93	10.2	34.29	54.06	74	-19.94	PK
4874	35.51	H	33.93	10.2	34.29	45.35	54	-8.65	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11b TX High									
4924	45.64	V	33.98	10.22	34.25	55.59	74	-18.41	PK
4924	34.04	V	33.98	10.22	34.25	43.99	54	-10.01	AV
7386	/	/	/	/	/	/	/	/	/

9848	/	/	/	/	/	/	/	/	/
4924	48.75	H	33.98	10.22	34.25	58.70	74	-15.30	PK
4924	33.98	H	33.98	10.22	34.25	43.93	54	-10.07	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

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: IEEE 802.11g 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
4824	44.39	V	33.95	10.18	34.26	54.26	74	-19.74	PK
4824	34.79	V	33.95	10.18	34.26	44.66	54	-9.34	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	43.06	H	33.95	10.18	34.26	52.93	74	-21.07	PK
4824	37.29	H	33.95	10.18	34.26	47.16	54	-6.84	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11g TX Mid									
4874	45.83	V	33.93	10.2	34.29	55.67	74	-18.33	PK
4874	30.89	V	33.93	10.2	34.29	40.73	54	-13.27	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	45.69	H	33.93	10.2	34.29	55.53	74	-18.47	PK
4874	34.03	H	33.93	10.2	34.29	43.87	54	-10.13	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11g TX High									
4924	45.98	V	33.98	10.22	34.25	55.93	74	-18.07	PK
4924	34.16	V	33.98	10.22	34.25	44.11	54	-9.89	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

4924	47.74	H	33.98	10.22	34.25	57.69	74	-16.31	PK
4924	32.93	H	33.98	10.22	34.25	42.88	54	-11.12	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

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: IEEE 802.11n HT20 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
4824	43.93	V	33.95	10.18	34.26	53.80	74	-20.20	PK
4824	35.10	V	33.95	10.18	34.26	44.97	54	-9.03	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	46.34	H	33.95	10.18	34.26	56.21	74	-17.79	PK
4824	33.78	H	33.95	10.18	34.26	43.65	54	-10.35	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT20 TX Mid									
4874	43.02	V	33.93	10.2	34.29	52.86	74	-21.14	PK
4874	34.36	V	33.93	10.2	34.29	44.20	54	-9.80	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	44.23	H	33.93	10.2	34.29	54.07	74	-19.93	PK
4874	34.42	H	33.93	10.2	34.29	44.26	54	-9.74	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT20 TX High									
4924	47.25	V	33.98	10.22	34.25	57.20	74	-16.80	PK
4924	35.27	V	33.98	10.22	34.25	45.22	54	-8.78	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

4924	49.14	H	33.98	10.22	34.25	59.09	74	-14.91	PK
4924	34.56	H	33.98	10.22	34.25	44.51	54	-9.49	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

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: IEEE 802.11n HT40 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
4844	45.55	V	33.95	10.18	34.26	55.42	74	-18.58	PK
4844	34.87	V	33.95	10.18	34.26	44.74	54	-9.26	AV
7266	/	/	/	/	/	/	/	/	/
9688	/	/	/	/	/	/	/	/	/
4844	43.08	H	33.95	10.18	34.26	52.95	74	-21.05	PK
4844	33.71	H	33.95	10.18	34.26	43.58	54	-10.42	AV
7266	/	/	/	/	/	/	/	/	/
9688	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT40 TX Mid									
4874	43.11	V	33.93	10.2	34.29	52.95	74	-21.05	PK
4874	34.07	V	33.93	10.2	34.29	43.91	54	-10.09	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.09	H	33.93	10.2	34.29	57.93	74	-16.07	PK
4874	34.65	H	33.93	10.2	34.29	44.49	54	-9.51	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT40 TX High									
4904	47.58	V	33.98	10.22	34.25	57.53	74	-16.47	PK
4904	33.89	V	33.98	10.22	34.25	43.84	54	-10.16	AV
7356	/	/	/	/	/	/	/	/	/
9808	/	/	/	/	/	/	/	/	/

4904	46.46	H	33.98	10.22	34.25	56.41	74	-17.59	PK
4904	36.08	H	33.98	10.22	34.25	46.03	54	-7.97	AV
7356	/	/	/	/	/	/	/	/	/
9808	/	/	/	/	/	/	/	/	/

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: IEEE 802.11ax20 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
4824	43.73	V	33.95	10.18	34.26	53.60	74	-20.40	PK
4824	35.93	V	33.95	10.18	34.26	45.80	54	-8.20	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	45.10	H	33.95	10.18	34.26	54.97	74	-19.03	PK
4824	36.02	H	33.95	10.18	34.26	45.89	54	-8.11	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802. 11ax20 TX Mid									
4874	45.50	V	33.93	10.2	34.29	55.34	74	-18.66	PK
4874	31.92	V	33.93	10.2	34.29	41.76	54	-12.24	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	44.25	H	33.93	10.2	34.29	54.09	74	-19.91	PK
4874	33.62	H	33.93	10.2	34.29	43.46	54	-10.54	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802. 11ax20 TX High									
4924	47.10	V	33.98	10.22	34.25	57.05	74	-16.95	PK
4924	37.38	V	33.98	10.22	34.25	47.33	54	-6.67	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

4924	47.05	H	33.98	10.22	34.25	57.00	74	-17.00	PK
4924	34.26	H	33.98	10.22	34.25	44.21	54	-9.79	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

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: IEEE 802.11ax40 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
4844	42.84	V	33.95	10.18	34.26	52.71	74	-21.29	PK
4844	34.41	V	33.95	10.18	34.26	44.28	54	-9.72	AV
7266	/	/	/	/	/	/	/	/	/
9688	/	/	/	/	/	/	/	/	/
4844	43.89	H	33.95	10.18	34.26	53.76	74	-20.24	PK
4844	34.48	H	33.95	10.18	34.26	44.35	54	-9.65	AV
7266	/	/	/	/	/	/	/	/	/
9688	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11ax40 TX Mid									
4874	45.17	V	33.93	10.2	34.29	55.01	74	-18.99	PK
4874	31.22	V	33.93	10.2	34.29	41.06	54	-12.94	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	45.23	H	33.93	10.2	34.29	55.07	74	-18.93	PK
4874	32.13	H	33.93	10.2	34.29	41.97	54	-12.03	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11ax40 TX High									
4904	47.18	V	33.98	10.22	34.25	57.13	74	-16.87	PK
4904	35.27	V	33.98	10.22	34.25	45.22	54	-8.78	AV
7356	/	/	/	/	/	/	/	/	/
9808	/	/	/	/	/	/	/	/	/

4904	47.63	H	33.98	10.22	34.25	57.58	74	-16.42	PK
4904	33.40	H	33.98	10.22	34.25	43.35	54	-10.65	AV
7356	/	/	/	/	/	/	/	/	/
9808	/	/	/	/	/	/	/	/	/

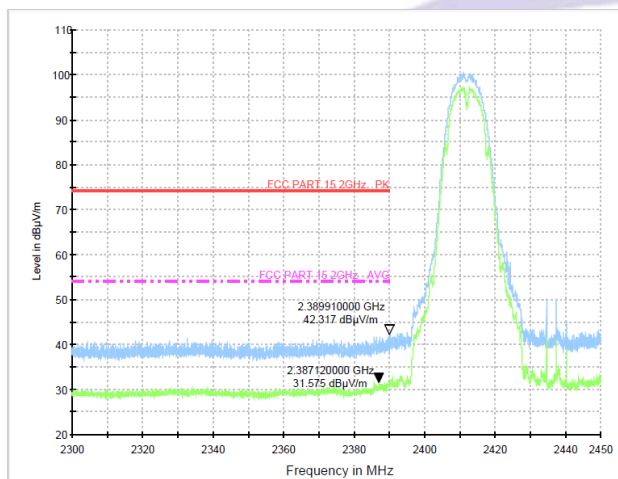
Note:

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

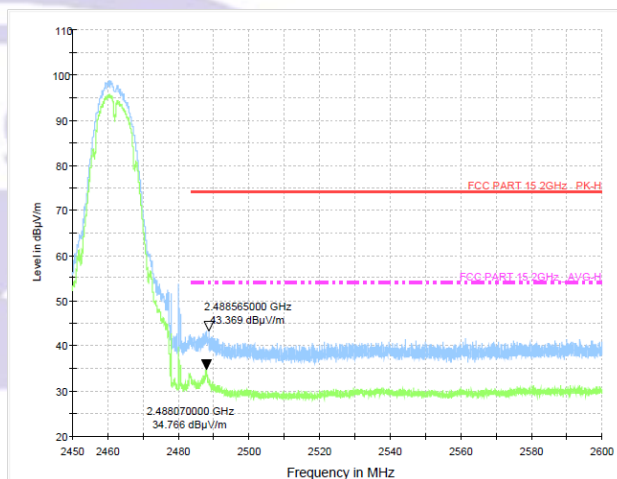
2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Band Edge Check

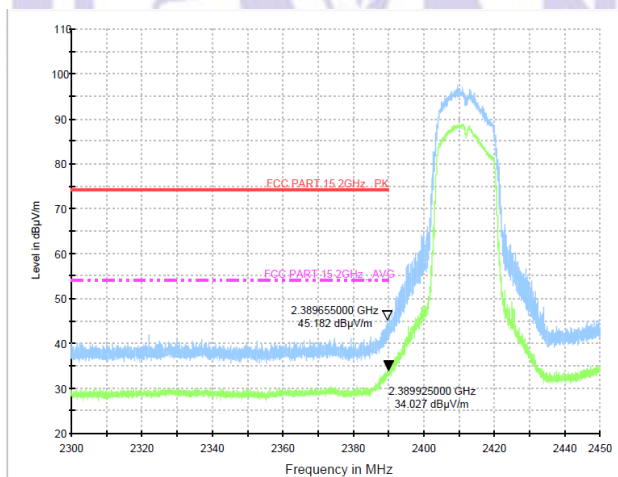
Test Mode: IEEE 802.11b-Low



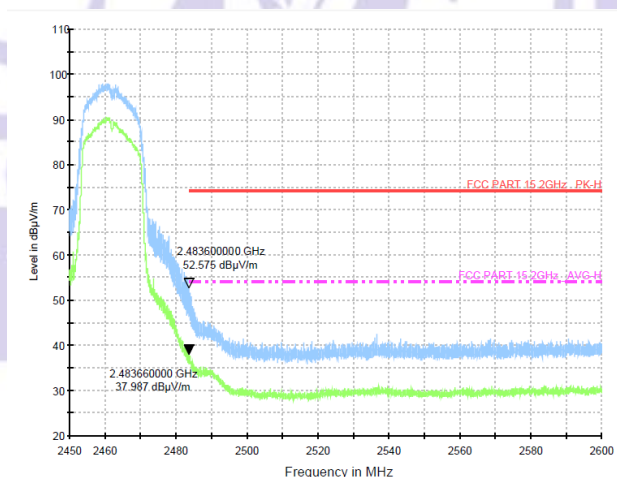
Test Mode: IEEE 802.11b-High



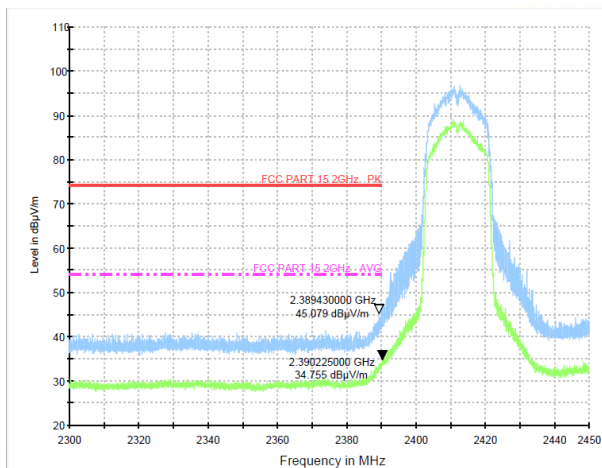
Test Mode: IEEE 802.11g-Low



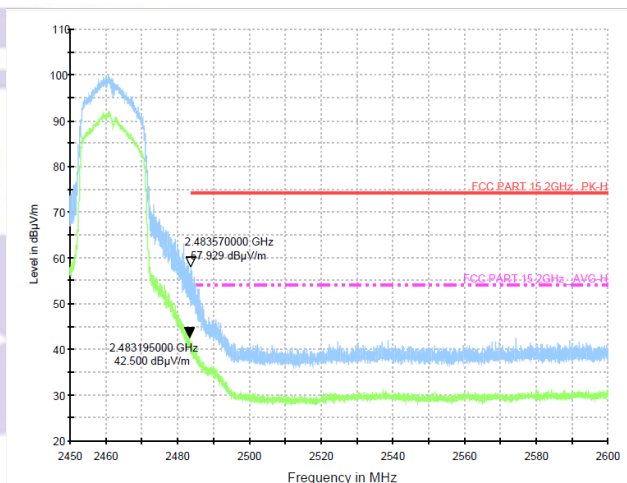
Test Mode: IEEE 802.11g-High



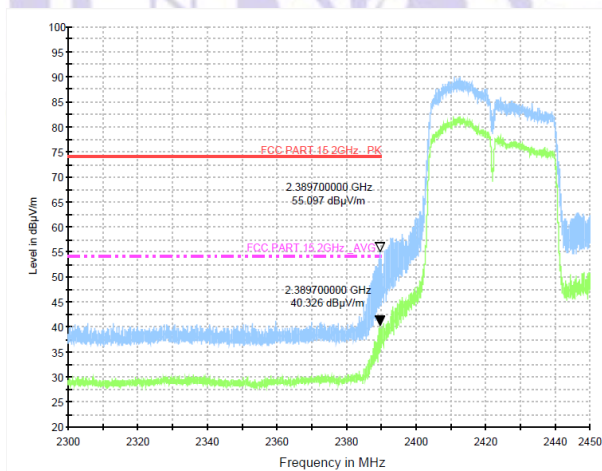
Test Mode: IEEE 802.11n20-Low



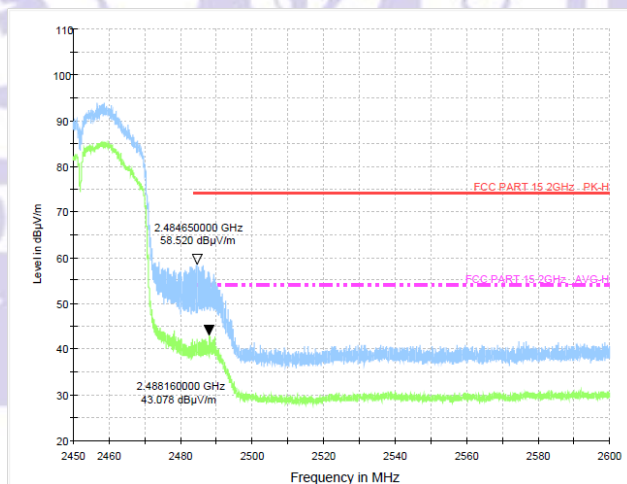
Test Mode: IEEE 802.11n20-High



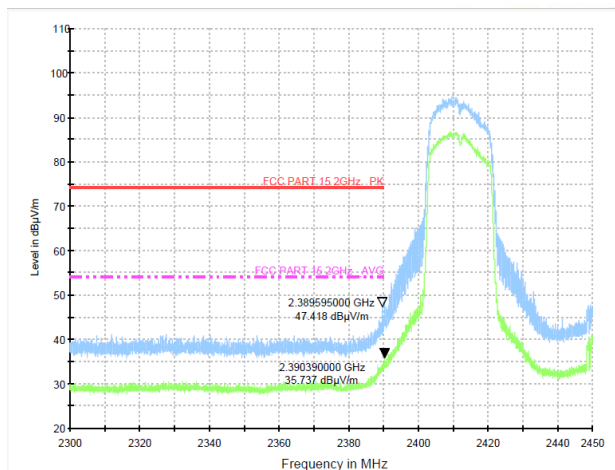
Test Mode: IEEE 802.11n40-Low



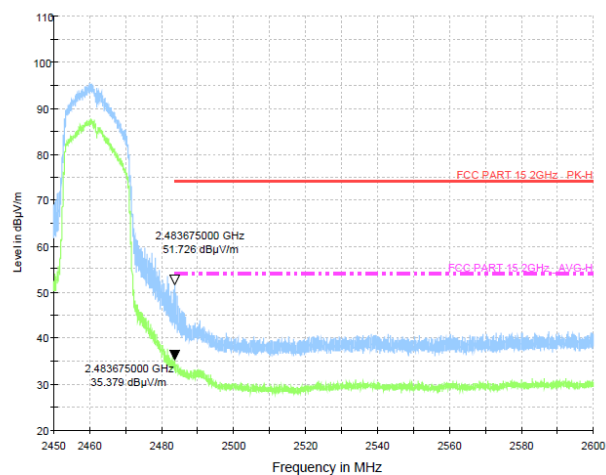
Test Mode: IEEE 802.11n40-High



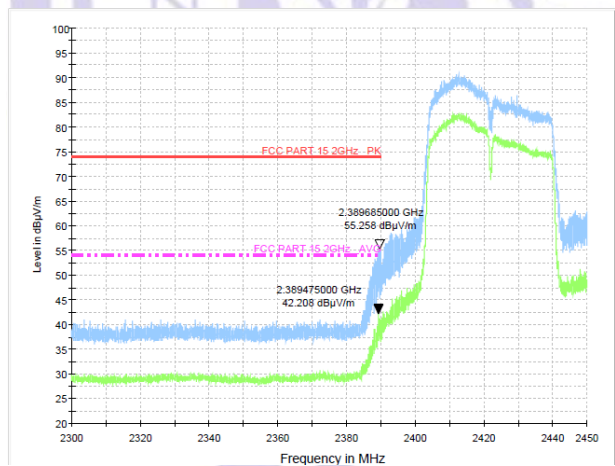
Test Mode: IEEE 802.11ax20-Low



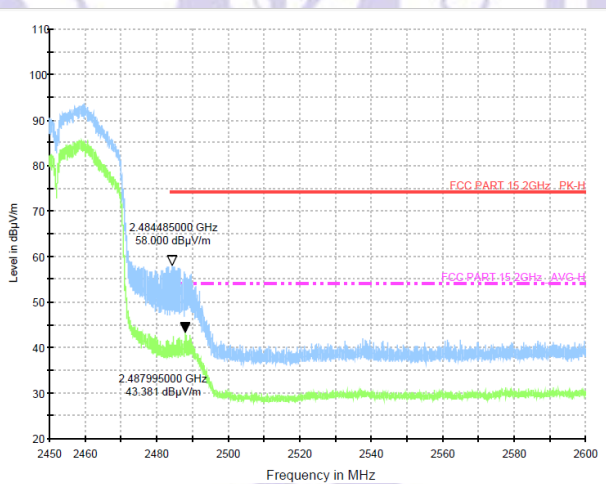
Test Mode: IEEE 802.11ax20-High



Test Mode: IEEE 802.11ax40-Low



Test Mode: IEEE 802.11ax40-High



7 Antenna Application

7.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

According to RSS-GEN section 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

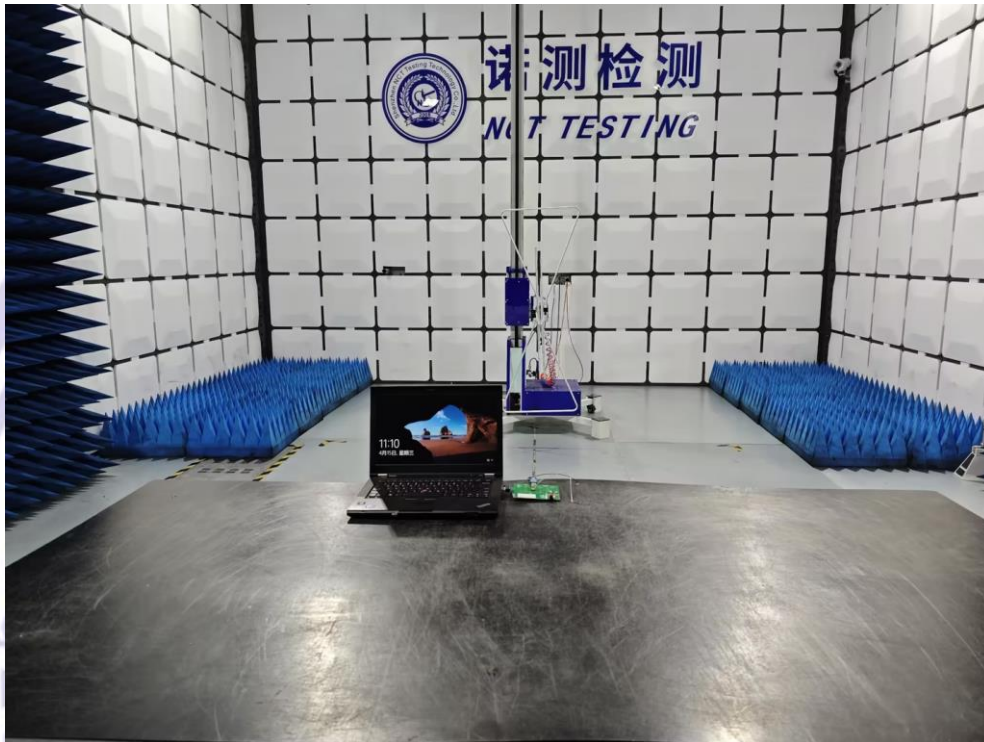
For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

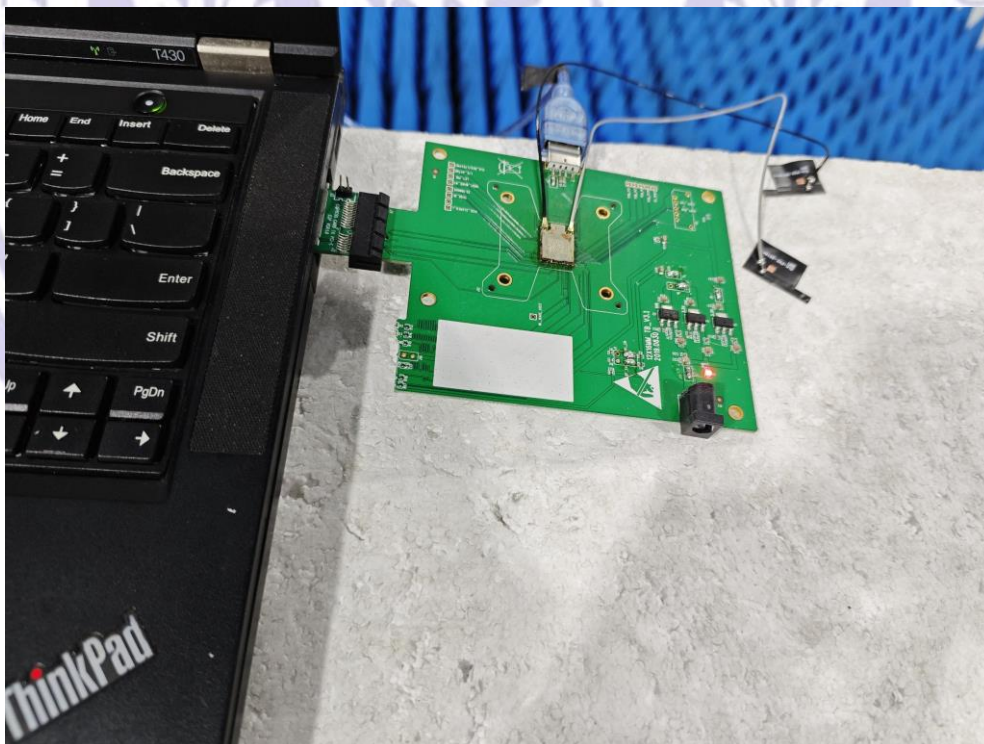
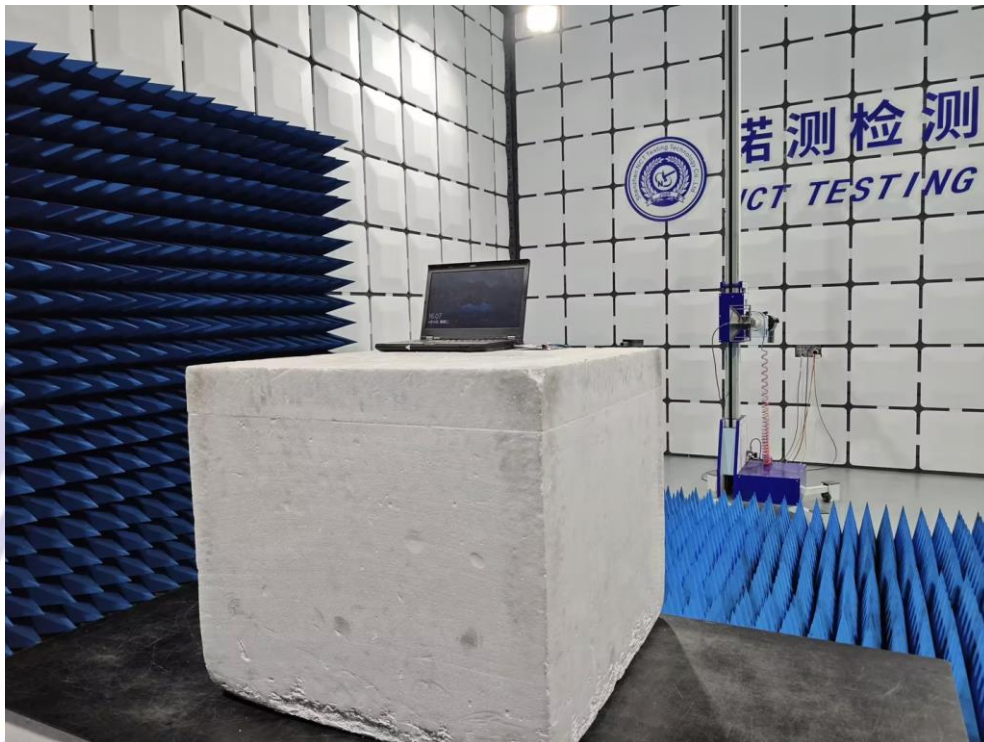
7.2 Result

The EUT antenna is FPC Antenna. It comply with the standard requirement.

8 Test Setup and EUT Photos

8.1 Photo of Radiated Emission test





8.2 Photos of Conducted Emission test



9 Photos of EUT

Please refer to the report NCT26016496XE1-1.

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

