FCC Part 15C Test Report
FCC ID:2A3AKFTYRM23DSC

Applicant:	Shenzhen Feiteng Cloud Technology Co., LTD
Address:	602, Building 1, Aidimengtuo Industrial Park, 4th Industrial Zone, Matian Street, Guangming District, Shenzhen
Manufacturer:	Shenzhen Feiteng Cloud Technology Co., LTD
Address:	602, Building 1, Aidimengtuo Industrial Park, 4th Industrial Zone, Matian Street, Guangming District, Shenzhen
EUT:	FTY-RM23-DS-C
Trade Mark:	N/A
Model Number:	FTY-RM23-DS-C
Date of Receipt:	Sep. 24, 2021
Test Date:	Sep. 24, 2021 - Oct. 25, 2021
Date of Report:	Oct. 25, 2021
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Applicable Standards:	FCC PART 15 C 15.247 ANSI C63.10:2014
Test Result:	Pass
Report Number:	DL-20211025003-1E

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This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	
15.247(c)	Radiated Spurious Emission	PASS	
15.205	Band Edge Emission	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(d)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±2.56dB
2	RF power,conducted	±0.42dB
3	Spurious emissions,conducted	±2.76dB
4	All emissions,radiated(<1G)	±3.65dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5℃
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	FTY-RM23-DS-C
Trademark	N/A
Model No.:	FTY-RM23-DS-C
Model Difference	N/A
Operation Frequency:	2412~2462 MHz for 802.11b/g/nHT20
Channel numbers:	11 Channels for 802.11b/g/n(HT20)
Channel separation:	5MHz
Modulation technology:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n(20): DSSS (CCK, DQPSK,DBPSK)+OFDM (QPSK, BPSK, 16-QAM, 64-QAM)
Rate of Transmitter	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 150Mbps
Antenna Type:	External antenna
Antenna gain:	0dBi
Power Supply:	DC 3.3V

Note:

1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.The EUT's all information provided by client.

2. Channel List(802.11b/g/nHT20)

Channel	Frequency (GHz)	Channel	Frequency (GHz)
01	2.412	07	2.442
02	2.417	08	2.447
03	2.422	09	2.452
04	2.427	10	2.457
05	2.432	11	2.462
06	2.437		

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11nHT20 CH1/ CH6/ CH11
Mode 4	Link Mode
For Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11nHT20 CH1/ CH6/ CH11

Note: 1. The measurements are performed at the highest, middle, lowest available channels.
2. During the test, the duty cycle >98%, 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.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

EUT E-1

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	Model/Type No.	Series No.	Note
E-1	FTY-RM23-DS-C	FTY-RM23-DS-C	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) For detachable type I/O cable should be specified the length in cm in『Length』column.

2.5 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the end product.

Max output power Setting			
Test software Version	Test program: AXDN-0002.0		
Mode	802.11b	802.11g	802.11n HT20
Data Rate	1Mbps	1Mbps	MSC0
Power Setting of Softwave	60	60	60

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Dec. 07, 2020	Dec. 06, 2021
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Dec. 07, 2020	Dec. 06, 2021
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Dec. 07, 2020	Dec. 06, 2021
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Dec. 07, 2020	Dec. 06, 2021
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Dec. 07, 2020	Dec. 06, 2021
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Dec. 07, 2020	Dec. 06, 2021
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Dec. 07, 2020	Dec. 06, 2021
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Dec. 07, 2020	Dec. 06, 2021
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Dec. 07, 2020	Dec. 06, 2021
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Dec. 07, 2020	Dec. 06, 2021
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Dec. 07, 2020	Dec. 06, 2021
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Dec. 07, 2020	Dec. 06, 2021
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Dec. 07, 2020	Dec. 06, 2021
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Dec. 07, 2020	Dec. 06, 2021
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Dec. 07, 2020	Dec. 06, 2021
16	D.C. Power Supply	LongWei	PS-305D	010964729	Dec. 07, 2020	Dec. 06, 2021

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	ChengYu	843 Room	843	Nov. 25, 2019	Nov. 24, 2022
2	EMI Receiver	R&S	ESR	101421	Dec. 07, 2020	Dec. 06, 2021
3	LISN	R&S	ENV216	102417	Dec. 07, 2020	Dec. 06, 2021
4	843 Cable 1#	ChengYu	CE Cable	001	Dec. 07, 2020	Dec. 06, 2021

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Limit (dBuV)		S andard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

a. 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.

b. 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.

c. 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.

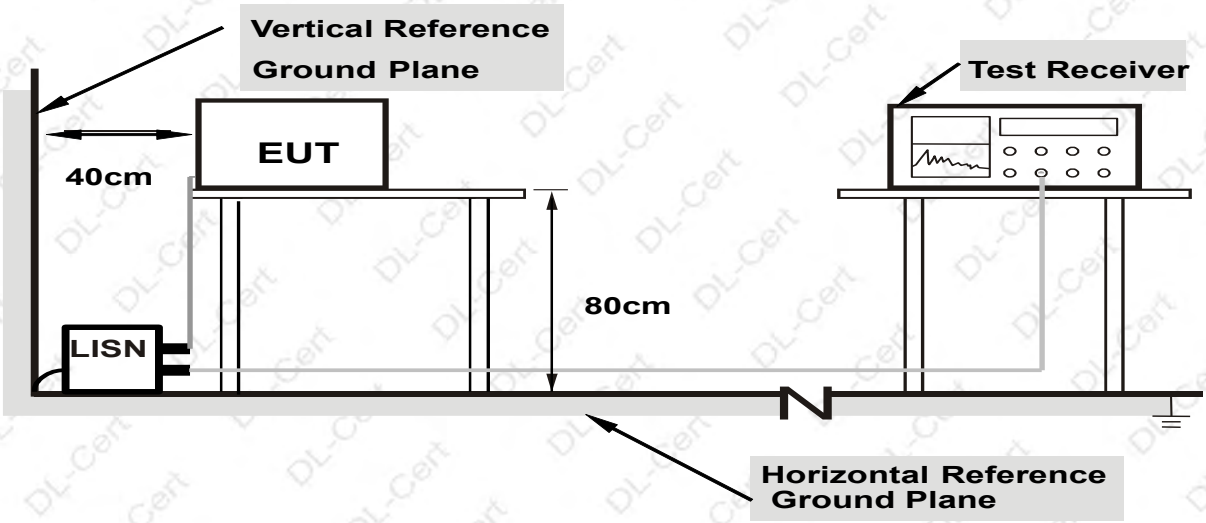
d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

The EUT is powered by DC, no requirements for this item.

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	25GHz
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

3.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).

h. Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

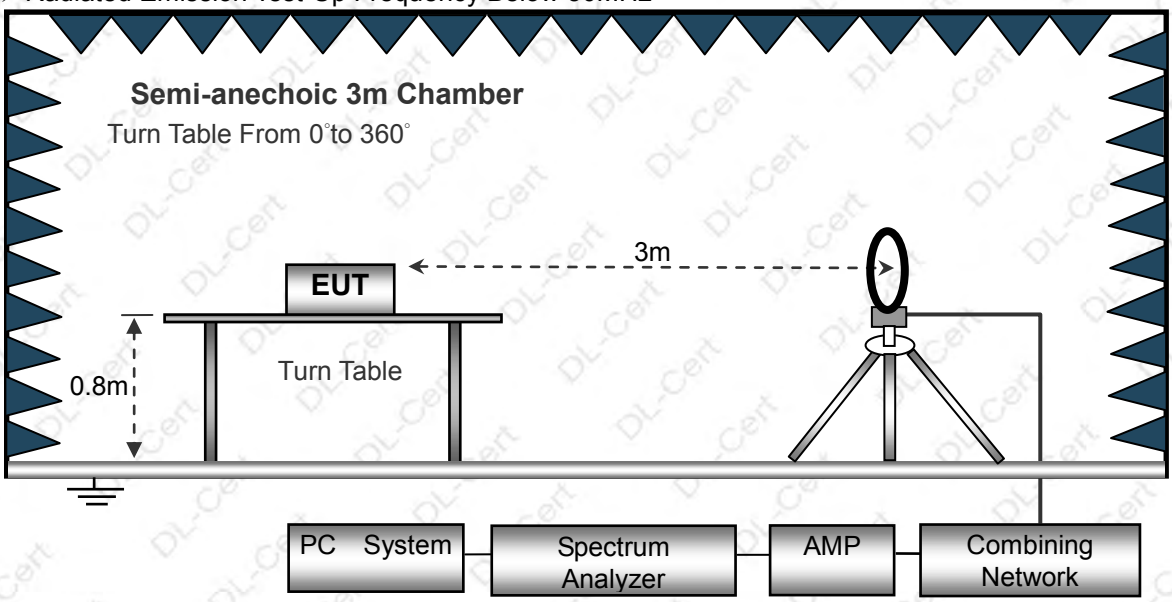
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

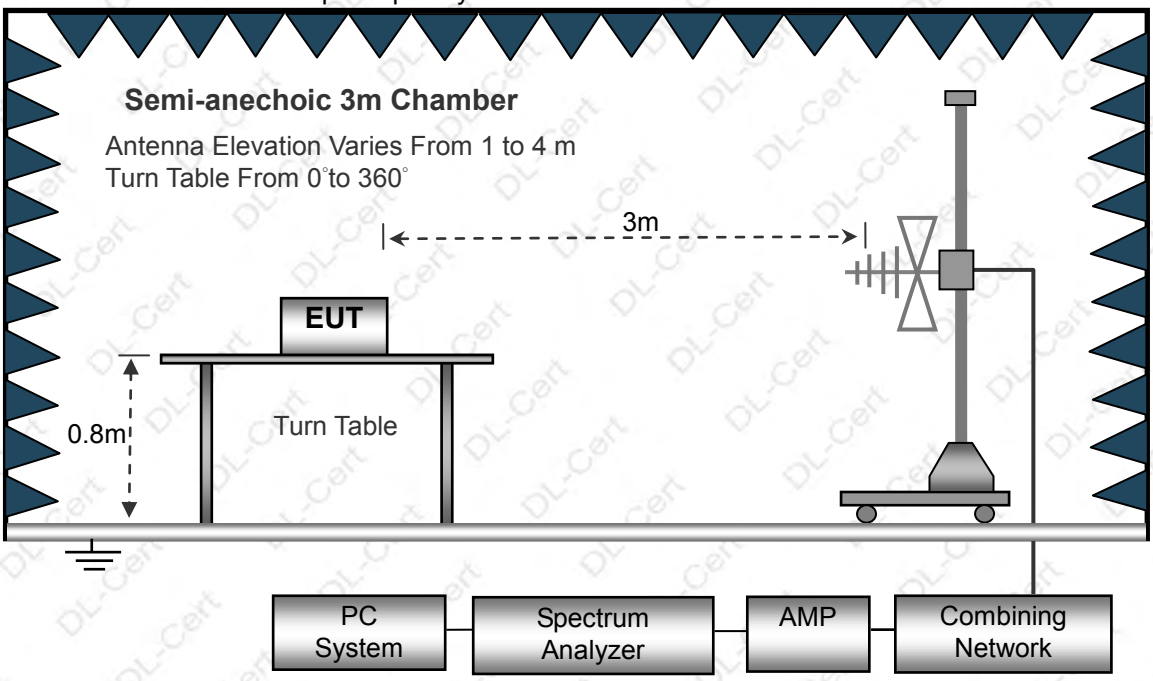
No deviation

3.2.4 TEST SETUP

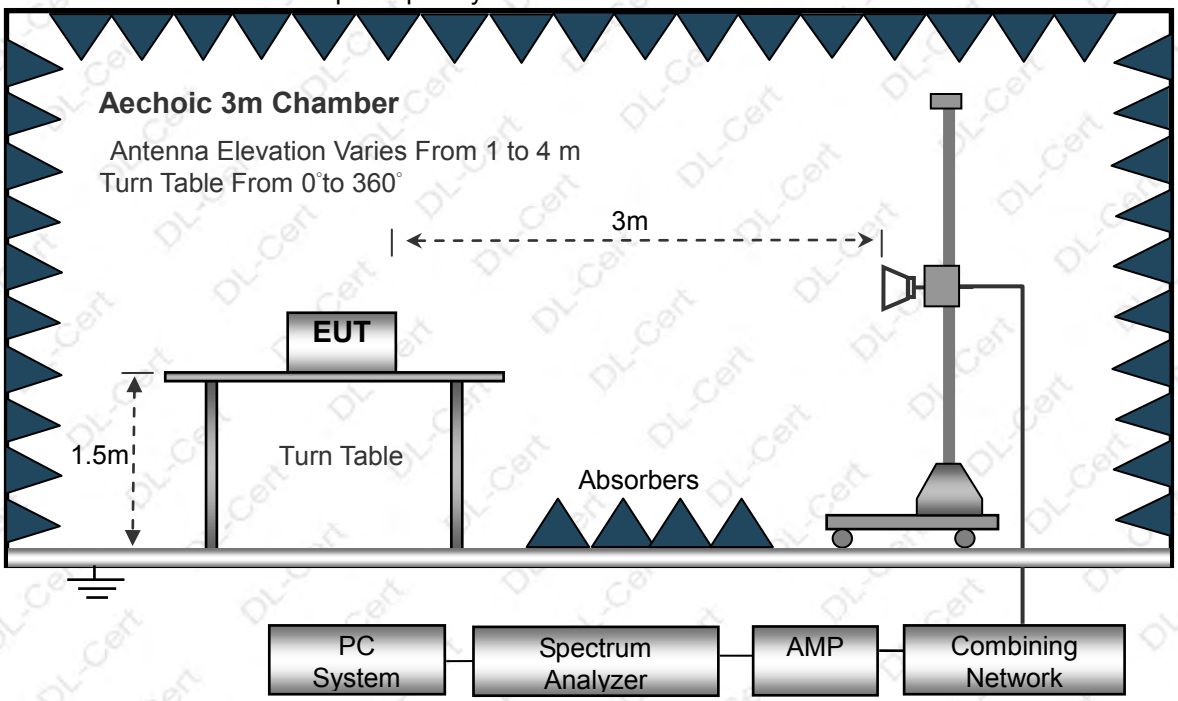
（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



（C）Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

Temperature:	20℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	Mode 4	Polarization :	--

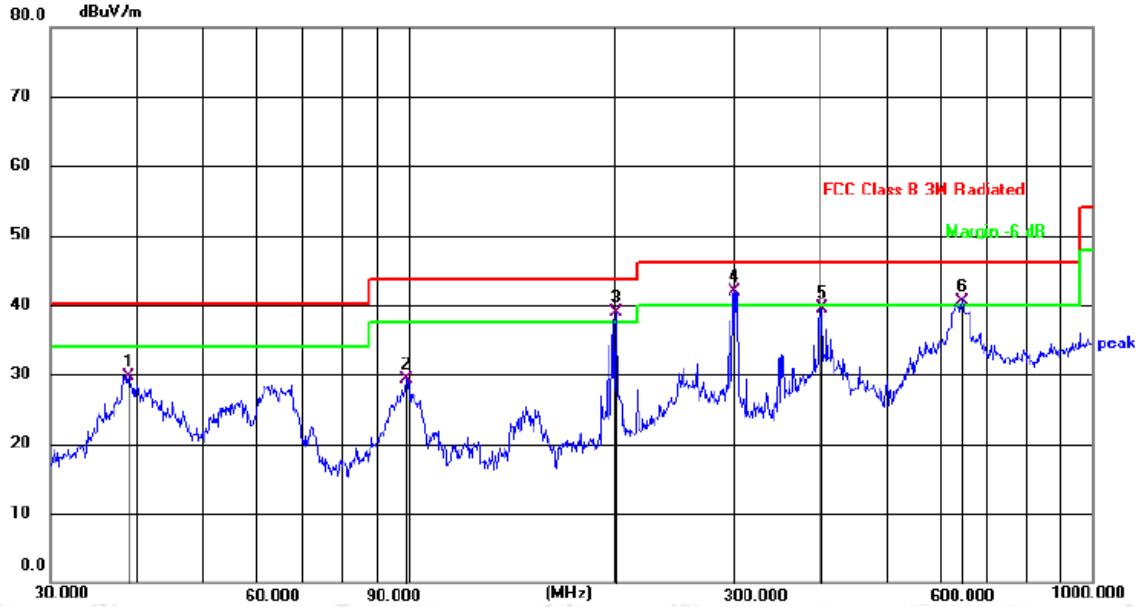
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

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 (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

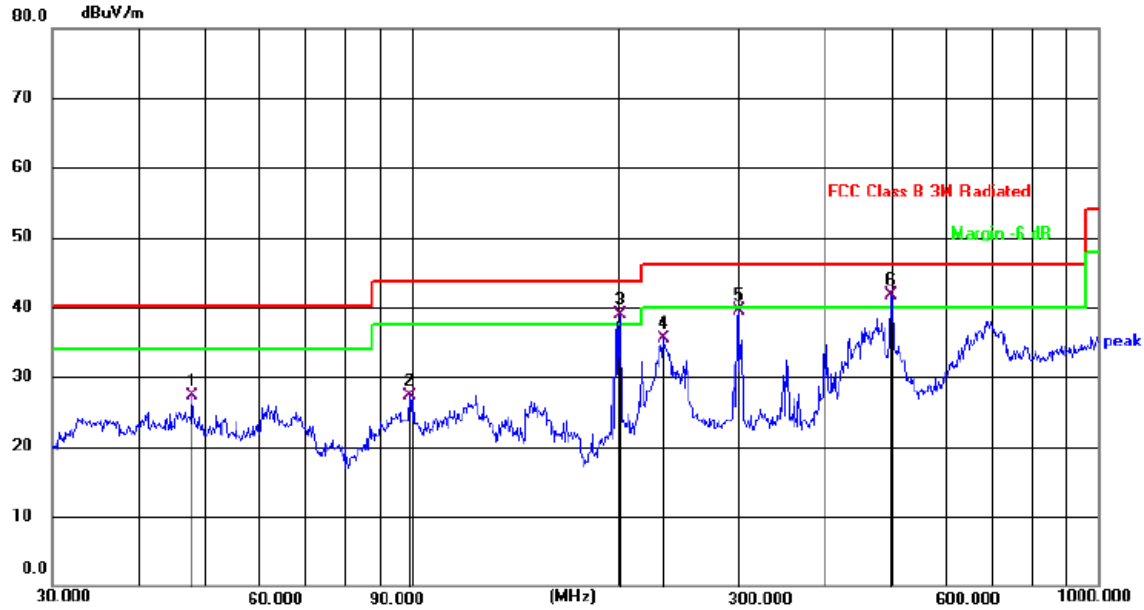
Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3.3V		
Test Mode :	Mode 4		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		39.0242	44.26	-14.47	29.79	40.00	10.21	QP
2		99.5279	46.98	-17.58	29.40	43.50	14.10	QP
3	!	201.3930	54.88	-15.95	38.93	43.50	4.57	QP
4	*	299.3158	54.44	-12.52	41.92	46.00	4.08	QP
5		403.2500	50.33	-10.81	39.52	46.00	6.48	QP
6	!	645.1194	46.32	-5.72	40.60	46.00	5.40	QP

Remark:
Correct Factor = Cable loss + Antenna factor – Preamplifier;
Level = Reading Level + Correct Factor; Margin = Limit – Level;

Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 3.3V		
Test Mode :	Mode 4		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.9938	40.75	-13.50	27.25	40.00	12.75	QP
2		99.5279	44.87	-17.58	27.29	43.50	16.21	QP
3	!	201.3930	54.78	-15.95	38.83	43.50	4.67	QP
4		232.5318	50.04	-14.63	35.41	46.00	10.59	QP
5		299.3158	52.00	-12.52	39.48	46.00	6.52	QP
6	*	499.4245	49.79	-8.06	41.73	46.00	4.27	QP

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;

3.2.8 TEST RESULTS (1GHZ~25GHZ)

802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	4824	67.25	50.65	6.88	31.29	54.77	74	-19.23	PK
V	4824	55.14	50.65	6.88	31.29	42.66	54	-11.34	AV
V	7236	66.63	49.98	7.16	36.63	60.44	74	-13.56	PK
V	7236	54.44	49.98	7.16	36.63	48.25	54	-5.75	AV
V	16087	48.15	51.53	11.34	41.52	49.48	74	-24.52	PK
H	4824	66.21	50.65	6.88	31.29	53.73	74	-20.27	PK
H	4824	55.33	50.65	6.88	31.29	42.85	54	-11.15	AV
H	7236	69.27	49.98	7.16	36.63	63.08	74	-10.92	PK
H	7236	53.57	49.98	7.16	36.63	47.38	54	-6.62	AV
H	16087	48.44	51.53	11.34	41.52	49.77	74	-24.23	PK
operation frequency:2437									
V	4874	67.32	50.67	6.89	31.38	54.92	74	-19.08	PK
V	4874	55.39	50.67	6.89	31.38	42.99	54	-11.01	AV
V	7311	69.22	50.02	7.24	36.63	63.07	74	-10.93	PK
V	7311	53.34	50.02	7.24	36.63	47.19	54	-6.81	AV
V	16087	48.16	51.53	11.34	41.52	49.49	74	-24.51	PK
H	4874	66.45	50.67	6.89	31.38	54.05	74	-19.95	PK
H	4874	55.24	50.67	6.89	31.38	42.84	54	-11.16	AV
H	7311	69.22	50.02	7.24	36.63	63.07	74	-10.93	PK
H	7311	53.67	50.02	7.24	36.63	47.52	54	-6.48	AV
H	16087	48.36	51.53	11.34	41.52	49.69	74	-24.31	PK
operation frequency:2462									
V	4924	68.05	50.79	6.83	31.36	55.45	74	-18.55	PK
V	4924	55.24	50.79	6.83	31.36	42.64	54	-11.36	AV
V	7386	69.16	50.11	7.25	36.58	62.88	74	-11.12	PK
V	7386	53.25	50.11	7.25	36.58	46.97	54	-7.03	AV
V	16087	49.28	51.53	11.34	41.52	50.61	74	-23.39	PK
H	4924	67.16	50.79	6.83	31.36	54.56	74	-19.44	PK
H	4924	55.64	50.79	6.83	31.36	43.04	54	-10.96	AV
H	7386	67.31	50.11	7.25	36.58	61.03	74	-12.97	PK
H	7386	55.45	50.11	7.25	36.58	49.17	54	-4.83	AV
H	16087	49.42	51.53	11.34	41.52	50.75	74	-23.25	PK

Remark:

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.

802.11g

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	4824	67.26	50.65	6.88	31.29	54.78	74	-19.22	PK
V	4824	55.33	50.65	6.88	31.29	42.85	54	-11.15	AV
V	7236	66.35	49.98	7.16	36.63	60.16	74	-13.84	PK
V	7236	53.15	49.98	7.16	36.63	46.96	54	-7.04	AV
V	16087	49.44	51.53	11.34	41.52	50.77	74	-23.23	PK
H	4824	69.16	50.65	6.88	31.29	56.68	74	-17.32	PK
H	4824	56.52	50.65	6.88	31.29	44.04	54	-9.96	AV
H	7236	66.45	49.98	7.16	36.63	60.26	74	-13.74	PK
H	7236	54.53	49.98	7.16	36.63	48.34	54	-5.66	AV
H	16087	47.55	51.53	11.34	41.52	48.88	74	-25.12	PK
operation frequency:2437									
V	4874	67.13	50.67	6.89	31.38	54.73	74	-19.27	PK
V	4874	55.51	50.67	6.89	31.38	43.11	54	-10.89	AV
V	7311	66.74	50.02	7.24	36.63	60.59	74	-13.41	PK
V	7311	55.47	50.02	7.24	36.63	49.32	54	-4.68	AV
V	16087	48.43	51.53	11.34	41.52	49.76	74	-24.24	PK
H	4874	66.22	50.67	6.89	31.38	53.82	74	-20.18	PK
H	4874	55.55	50.67	6.89	31.38	43.15	54	-10.85	AV
H	7311	65.11	50.02	7.24	36.63	58.96	74	-15.04	PK
H	7311	53.35	50.02	7.24	36.63	47.2	54	-6.8	AV
H	16087	48.43	51.53	11.34	41.52	49.76	74	-24.24	PK
operation frequency:2462									
V	4924	67.23	50.79	6.83	31.36	54.63	74	-19.37	PK
V	4924	55.16	50.79	6.83	31.36	42.56	54	-11.44	AV
V	7386	66.44	50.11	7.25	36.58	60.16	74	-13.84	PK
V	7386	54.45	50.11	7.25	36.58	48.17	54	-5.83	AV
V	16087	46.26	51.53	11.34	41.52	47.59	74	-26.41	PK
H	4924	66.34	50.79	6.83	31.36	53.74	74	-20.26	PK
H	4924	54.32	50.79	6.83	31.36	41.72	54	-12.28	AV
H	7386	65.14	50.11	7.25	36.58	58.86	74	-15.14	PK
H	7386	55.31	50.11	7.25	36.58	49.03	54	-4.97	AV
H	16087	47.25	51.53	11.34	41.52	48.58	74	-25.42	PK

Remark:

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.

802.11n HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	4824	66.76	50.65	6.88	31.29	54.28	74	-19.72	PK
V	4824	55.55	50.65	6.88	31.29	43.07	54	-10.93	AV
V	7236	66.43	49.98	7.16	36.63	60.24	74	-13.76	PK
V	7236	53.23	49.98	7.16	36.63	47.04	54	-6.96	AV
V	16087	46.18	51.53	11.34	41.52	47.51	74	-26.49	PK
H	4824	66.44	50.65	6.88	31.29	53.96	74	-20.04	PK
H	4824	55.31	50.65	6.88	31.29	42.83	54	-11.17	AV
H	7236	64.33	49.98	7.16	36.63	58.14	74	-15.86	PK
H	7236	54.25	49.98	7.16	36.63	48.06	54	-5.94	AV
H	16087	47.43	51.53	11.34	41.52	48.76	74	-25.24	PK
operation frequency:2437									
V	4874	66.24	50.67	6.89	31.38	53.84	74	-20.16	PK
V	4874	54.32	50.67	6.89	31.38	41.92	54	-12.08	AV
V	7311	65.51	50.02	7.24	36.63	59.36	74	-14.64	PK
V	7311	53.43	50.02	7.24	36.63	47.28	54	-6.72	AV
V	16087	47.24	51.53	11.34	41.52	48.57	74	-25.43	PK
H	4874	65.23	50.67	6.89	31.38	52.83	74	-21.17	PK
H	4874	53.25	50.67	6.89	31.38	40.85	54	-13.15	AV
H	7311	65.16	50.02	7.24	36.63	59.01	74	-14.99	PK
H	7311	53.27	50.02	7.24	36.63	47.12	54	-6.88	AV
H	16087	46.61	51.53	11.34	41.52	47.94	74	-26.06	PK
operation frequency:2462									
V	4924	67.44	50.79	6.83	31.36	54.84	74	-19.16	PK
V	4924	54.66	50.79	6.83	31.36	42.06	54	-11.94	AV
V	7386	64.11	50.11	7.25	36.58	57.83	74	-16.17	PK
V	7386	53.35	50.11	7.25	36.58	47.07	54	-6.93	AV
V	16087	48.27	51.53	11.34	41.52	49.6	74	-24.4	PK
H	4924	67.35	50.79	6.83	31.36	54.75	74	-19.25	PK
H	4924	54.16	50.79	6.83	31.36	41.56	54	-12.44	AV
H	7386	65.44	50.11	7.25	36.58	59.16	74	-14.84	PK
H	7386	54.31	50.11	7.25	36.58	48.03	54	-5.97	AV
H	16087	47.37	51.53	11.34	41.52	48.7	74	-25.3	PK

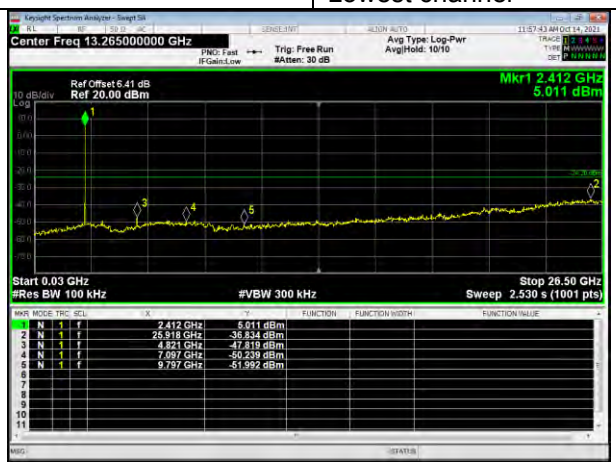
Remark:

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.

For Conducted

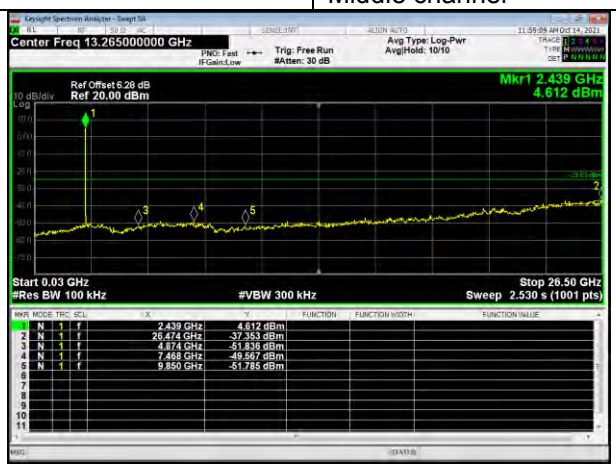
During the test, pre-scan the all modulation, and found the 802.11b mode which it is worse case.

Test channel:	Lowest channel



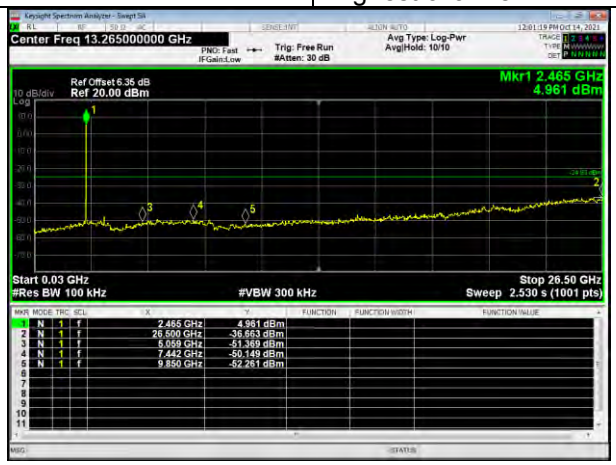
0.03Hz~25GHz

Test channel:	Middle channel



0.03GHz~25GHz

Test channel:	Highest channel



0.03GHz~25GHz

3.3 RADIATED BAND EMISSION MEASUREMENT

3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.205

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel,the Highest channel

Note:

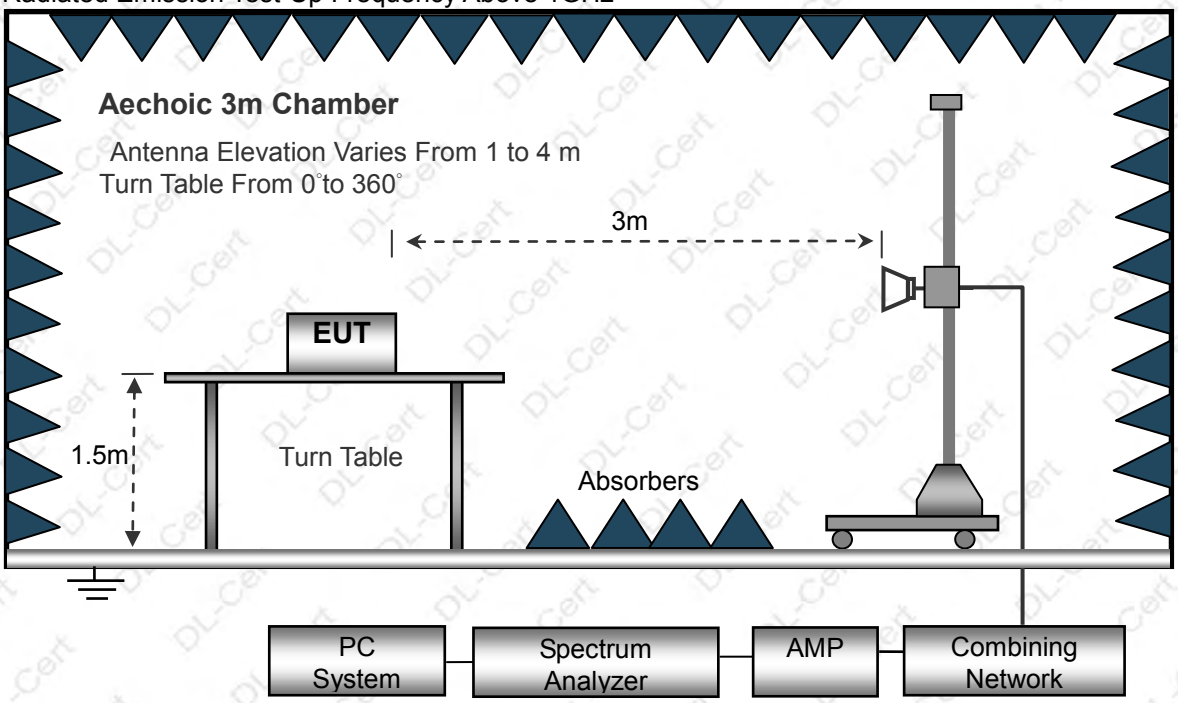
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.3.6 TEST RESULT

802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	2390	76.16	52.12	2.73	27.38	54.15	74	-19.85	PK
V	2390	65.24	52.12	2.73	27.38	43.23	54	-10.77	AV
V	2400	76.18	52.16	2.78	27.41	54.21	74	-19.79	PK
V	2400	64.24	52.16	2.78	27.41	42.27	54	-11.73	AV
H	2390	76.58	52.12	2.73	27.38	54.57	74	-19.43	PK
H	2390	65.36	52.12	2.73	27.38	43.35	54	-10.65	AV
H	2400	76.34	52.16	2.78	27.41	54.37	74	-19.63	PK
H	2400	65.19	52.16	2.78	27.41	43.22	54	-10.78	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2462									
V	2483.5	76.34	52.23	2.86	27.44	54.41	74	-19.59	PK
V	2483.5	65.45	52.23	2.86	27.44	43.52	54	-10.48	AV
V	2500	76.26	52.26	2.88	27.49	54.37	74	-19.63	PK
V	2500	64.74	52.26	2.88	27.49	42.85	54	-11.15	AV
H	2483.5	76.34	52.23	2.86	27.44	54.41	74	-19.59	PK
H	2483.5	65.54	52.23	2.86	27.44	43.61	54	-10.39	AV
H	2500	76.21	52.26	2.88	27.49	54.32	74	-19.68	PK
H	2500	65.75	52.26	2.88	27.49	43.86	54	-10.14	AV

Remark:

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.

802.11g

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	2390	76.13	52.12	2.73	27.38	54.12	74	-19.88	PK
V	2390	65.38	52.12	2.73	27.38	43.37	54	-10.63	AV
V	2400	76.54	52.16	2.78	27.41	54.57	74	-19.43	PK
V	2400	64.26	52.16	2.78	27.41	42.29	54	-11.71	AV
H	2390	76.75	52.12	2.73	27.38	54.74	74	-19.26	PK
H	2390	65.26	52.12	2.73	27.38	43.25	54	-10.75	AV
H	2400	76.44	52.16	2.78	27.41	54.47	74	-19.53	PK
H	2400	65.35	52.16	2.78	27.41	43.38	54	-10.62	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2462									
V	2483.5	76.48	52.23	2.86	27.44	54.55	74	-19.45	PK
V	2483.5	65.14	52.23	2.86	27.44	43.21	54	-10.79	AV
V	2500	76.46	52.26	2.88	27.49	54.57	74	-19.43	PK
V	2500	65.01	52.26	2.88	27.49	43.12	54	-10.88	AV
H	2483.5	76.45	52.23	2.86	27.44	54.52	74	-19.48	PK
H	2483.5	65.66	52.23	2.86	27.44	43.73	54	-10.27	AV
H	2500	76.57	52.26	2.88	27.49	54.68	74	-19.32	PK
H	2500	65.61	52.26	2.88	27.49	43.72	54	-10.28	AV

Remark:

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.

802.11n HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	2390	76.56	52.12	2.73	27.38	54.55	74	-19.45	PK
V	2390	65.27	52.12	2.73	27.38	43.26	54	-10.74	AV
V	2400	77.31	52.16	2.78	27.41	55.34	74	-18.66	PK
V	2400	65.26	52.16	2.78	27.41	43.29	54	-10.71	AV
H	2390	77.54	52.12	2.73	27.38	55.53	74	-18.47	PK
H	2390	65.45	52.12	2.73	27.38	43.44	54	-10.56	AV
H	2400	76.76	52.16	2.78	27.41	54.79	74	-19.21	PK
H	2400	65.25	52.16	2.78	27.41	43.28	54	-10.72	AV

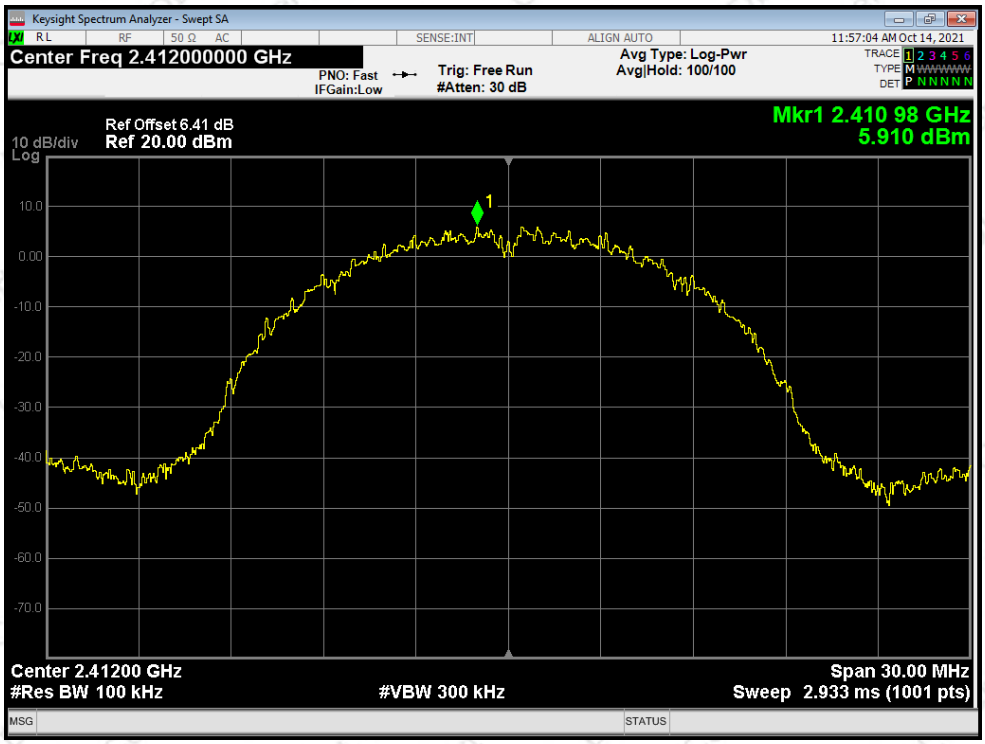
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2462									
V	2483.5	77.14	52.23	2.86	27.44	55.21	74	-18.79	PK
V	2483.5	65.26	52.23	2.86	27.44	43.33	54	-10.67	AV
V	2500	76.43	52.26	2.88	27.49	54.54	74	-19.46	PK
V	2500	65.35	52.26	2.88	27.49	43.46	54	-10.54	AV
H	2483.5	77.24	52.23	2.86	27.44	55.31	74	-18.69	PK
H	2483.5	65.55	52.23	2.86	27.44	43.62	54	-10.38	AV
H	2500	76.76	52.26	2.88	27.49	54.87	74	-19.13	PK
H	2500	66.07	52.26	2.88	27.49	44.18	54	-9.82	AV

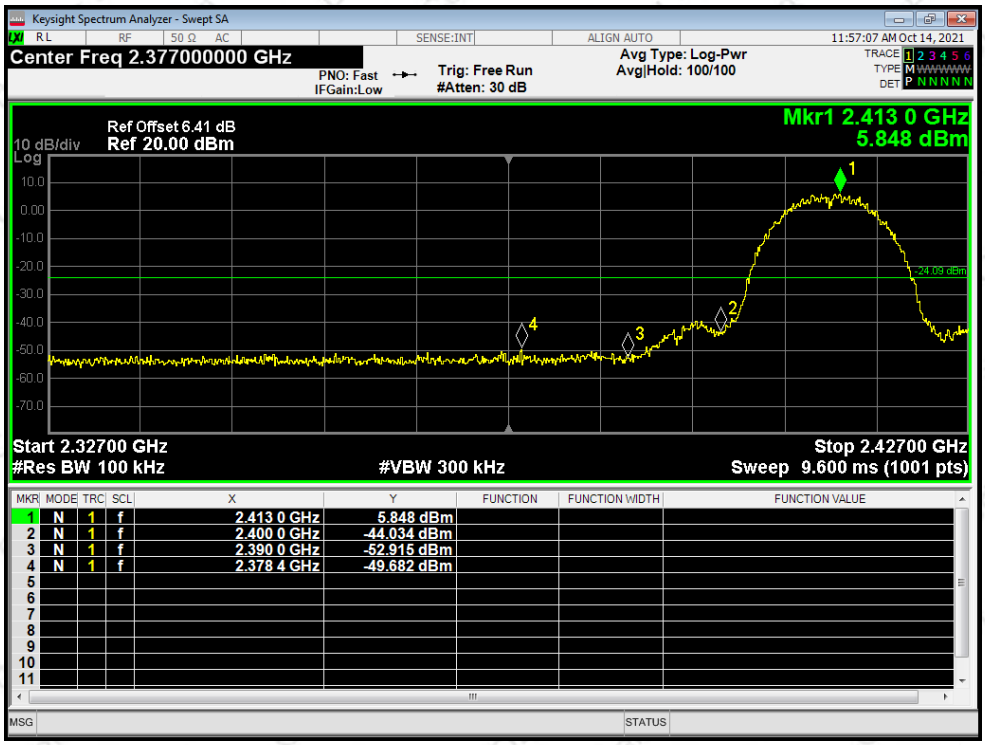
Remark:

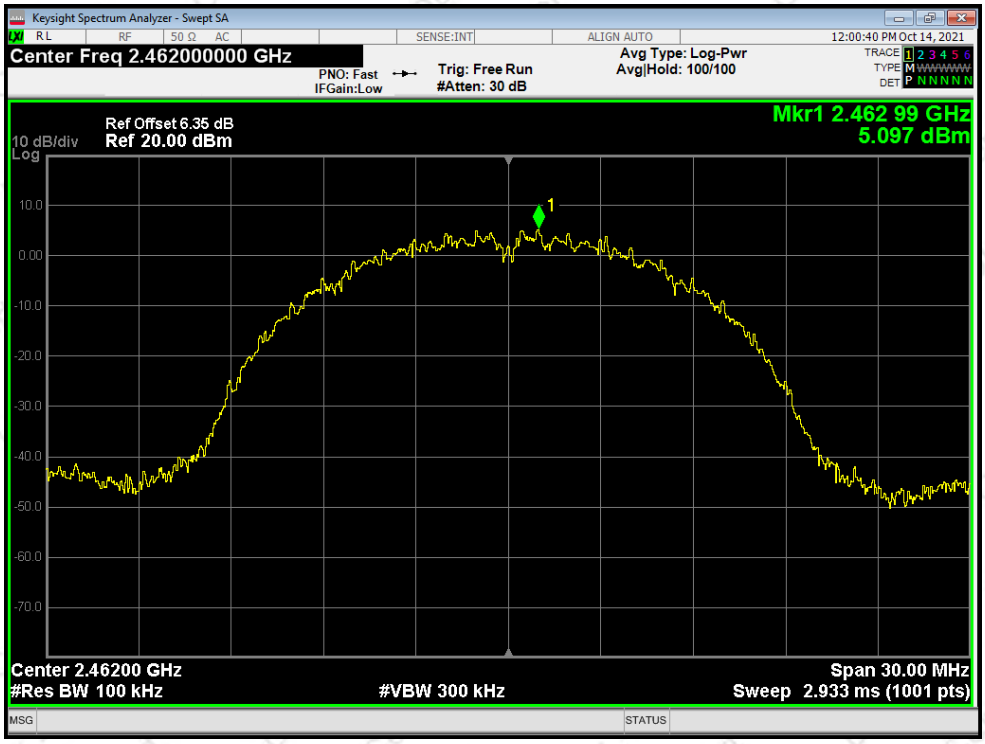
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

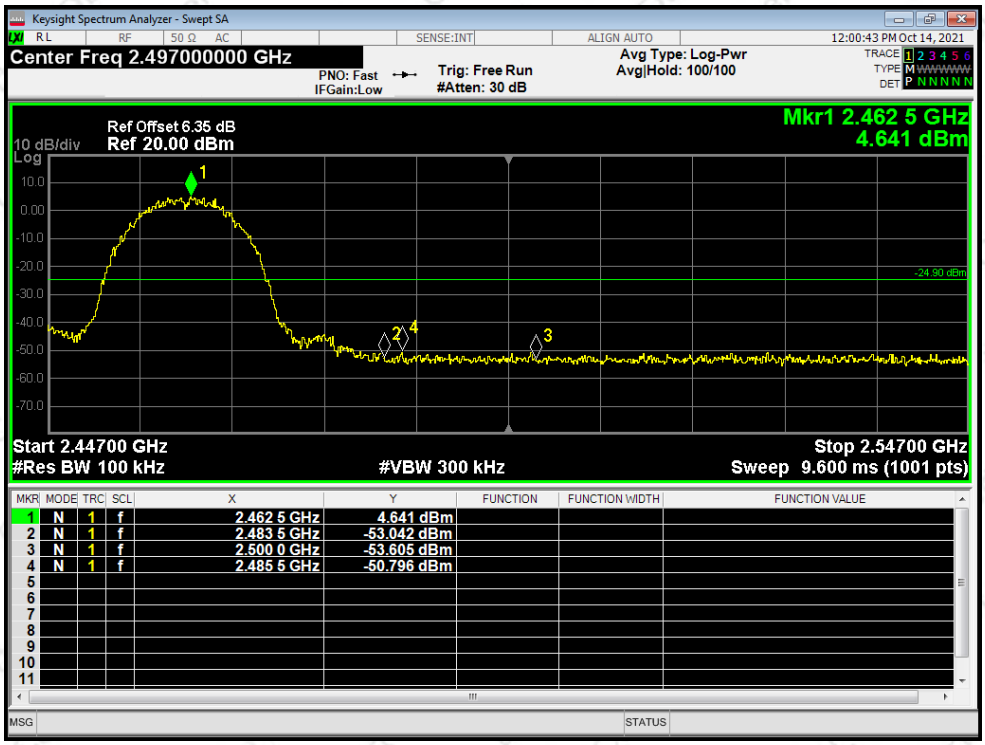
For Conducted

802.11b

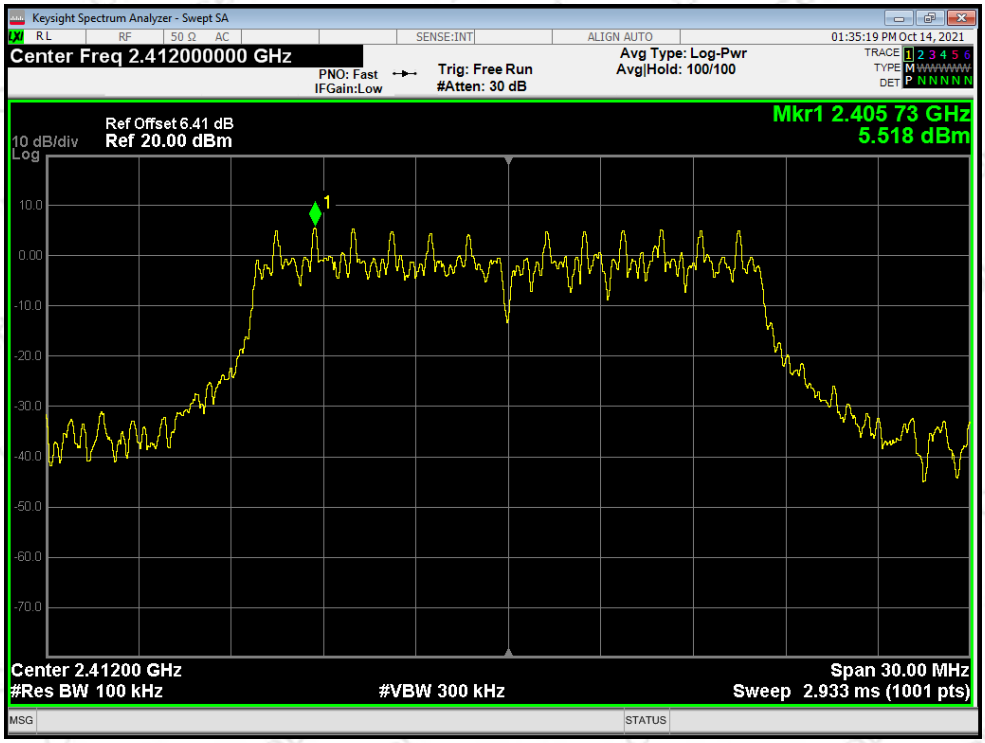





Keysight Spectrum Analyzer - Swept SA
RL RF 50 Ω AC SENSE:INT ALIGN AUTO 12:00:40 PM Oct 14, 2021
Center Freq 2.462000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ref Offset 6.35 dB
10 dB/div Ref 20.00 dBm
Log
Mkr1 2.462 99 GHz
5.097 dBm
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)
MSG
STATUS


Keysight Spectrum Analyzer - Swept SA
RL RF 50 Ω AC SENSE:INT ALIGN AUTO 12:00:43 PM Oct 14, 2021
Center Freq 2.497000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ref Offset 6.35 dB
10 dB/div Ref 20.00 dBm
Log
Mkr1 2.462 5 GHz
4.641 dBm
-24.90 dBm
Start 2.44700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.54700 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.462 5 GHz 4.641 dBm
2 N 1 f 2.483 5 GHz -53.042 dBm
3 N 1 f 2.500 0 GHz -53.605 dBm
4 N 1 f 2.485 5 GHz -50.796 dBm
MSG
STATUS

802.11g


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.412000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
01:35:19 PM Oct 14, 2021
Ref Offset 6.41 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.405 73 GHz
5.518 dBm
Center 2.41200 GHz
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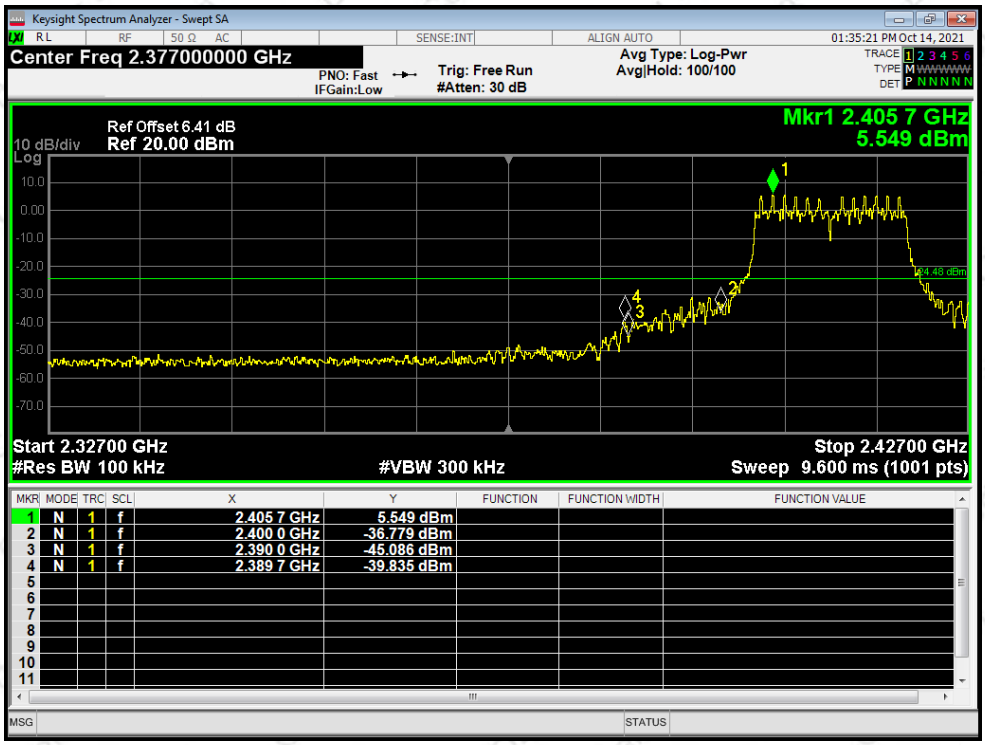
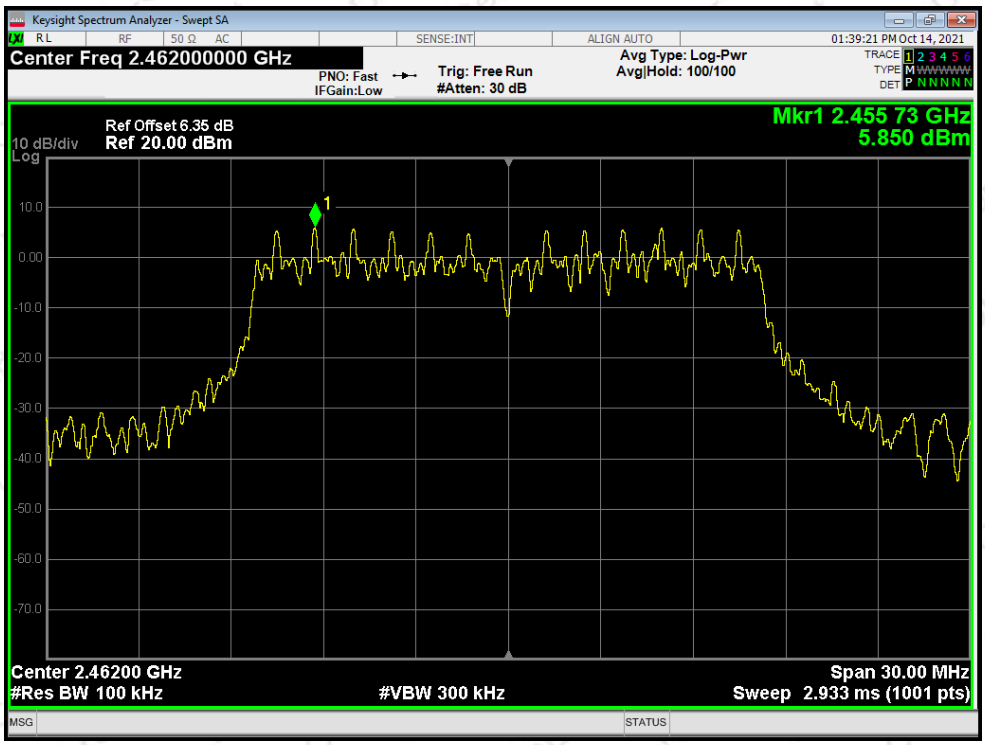
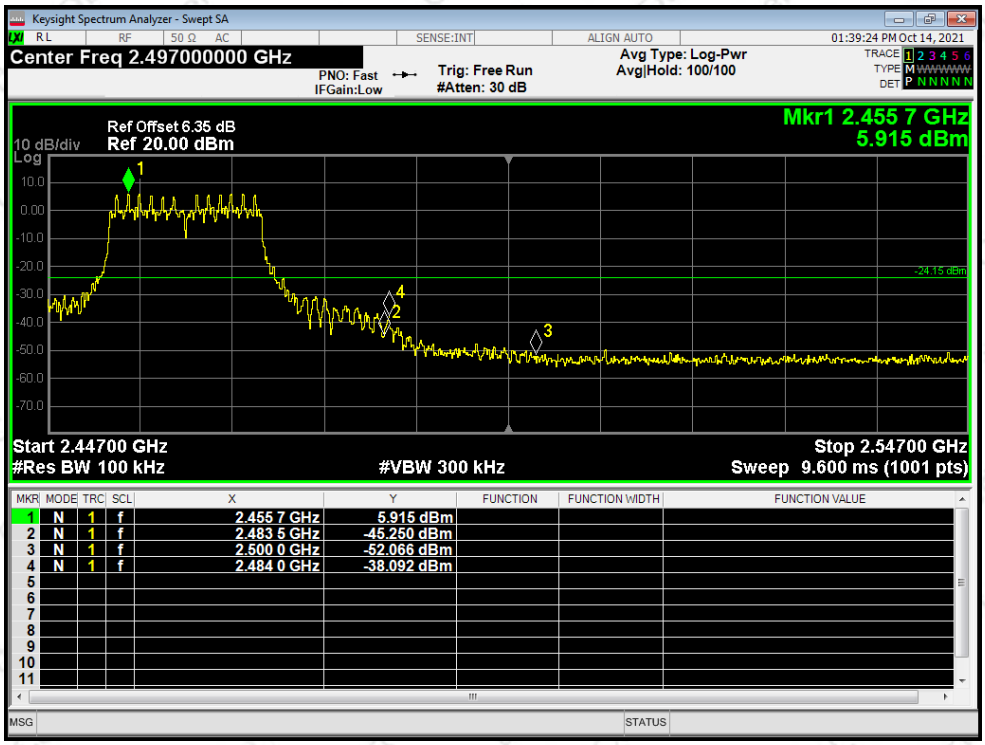
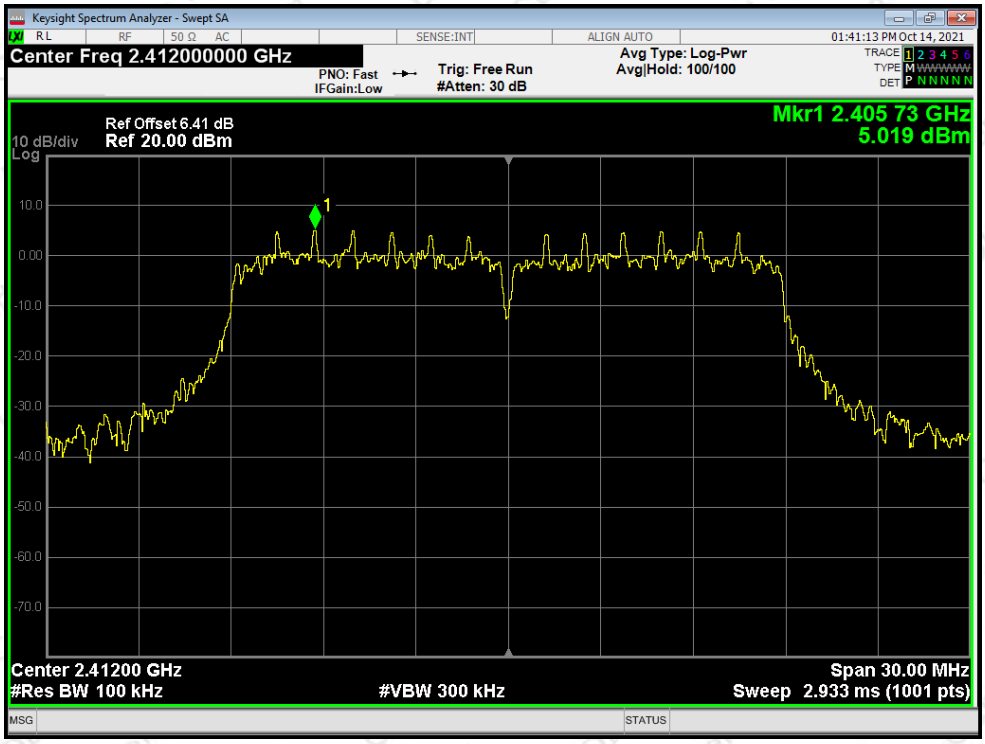
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)

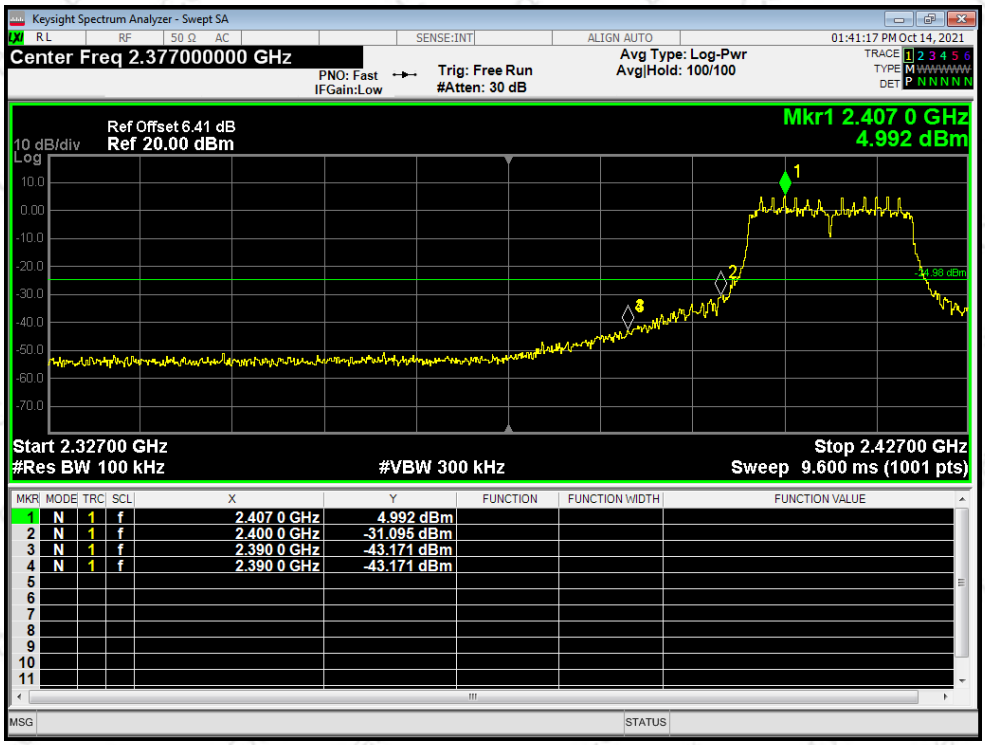

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.377000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
01:35:21 PM Oct 14, 2021
Ref Offset 6.41 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.405 7 GHz
5.549 dBm
Start 2.32700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.42700 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.405 7 GHz 5.549 dBm
2 N 1 f 2.400 0 GHz -36.779 dBm
3 N 1 f 2.390 0 GHz -45.086 dBm
4 N 1 f 2.389 7 GHz -39.835 dBm

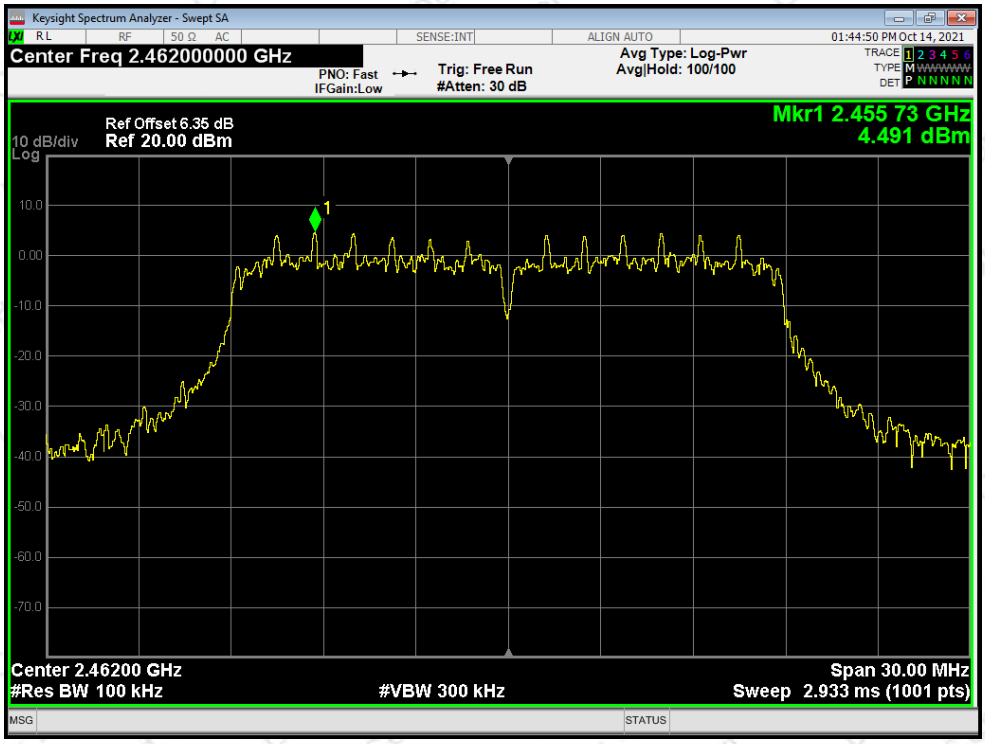

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.462000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
01:39:21 PM Oct 14, 2021
Ref Offset 6.35 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.455 73 GHz
5.850 dBm
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)

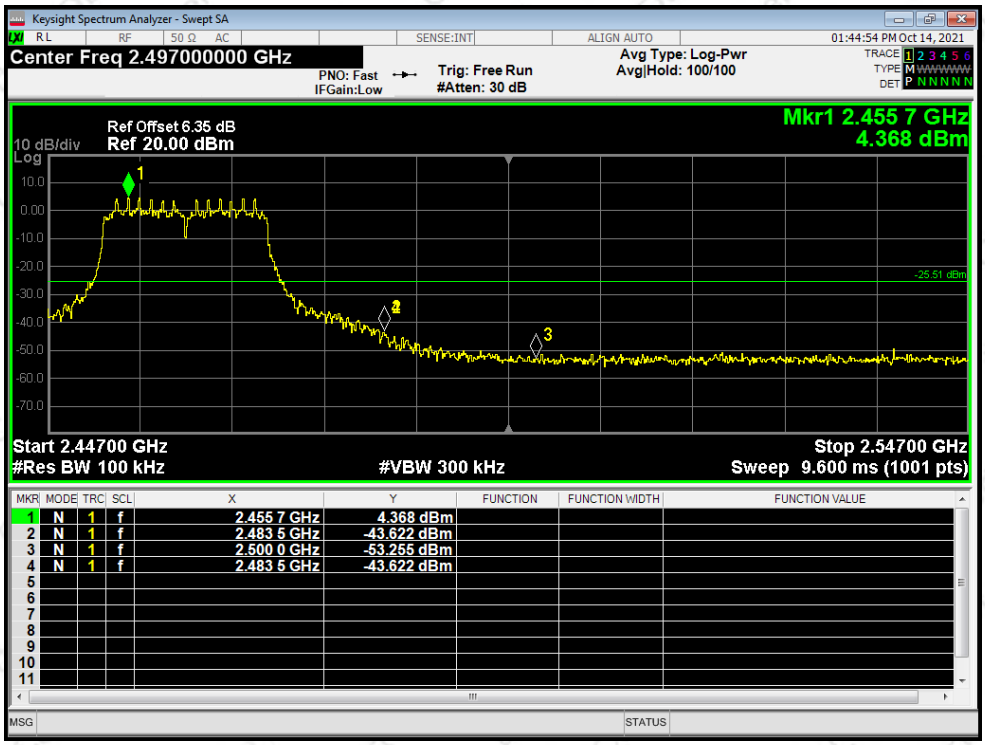

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.497000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
01:39:24 PM Oct 14, 2021
Ref Offset 6.35 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.455 7 GHz
5.915 dBm
-24.15 dBm
Start 2.44700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.54700 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.455 7 GHz 5.915 dBm
2 N 1 f 2.483 5 GHz -45.250 dBm
3 N 1 f 2.500 0 GHz -52.066 dBm
4 N 1 f 2.484 0 GHz -38.092 dBm

802.11n HT20


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.412000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
01:41:13 PM Oct 14, 2021
Ref Offset 6.41 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.405 73 GHz
5.019 dBm
Center 2.41200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.377000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
01:41:17 PM Oct 14, 2021
Ref Offset 6.41 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.407 0 GHz
4.992 dBm
Start 2.32700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.42700 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.407 0 GHz 4.992 dBm
2 N 1 f 2.400 0 GHz -31.095 dBm
3 N 1 f 2.390 0 GHz -43.171 dBm
4 N 1 f 2.390 0 GHz -43.171 dBm


Keysight Spectrum Analyzer - Swept SA
RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:44:50 PM Oct 14, 2021
Center Freq 2.462000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ref Offset 6.35 dB
10 dB/div Ref 20.00 dBm
Log
Mkr1 2.455 73 GHz
4.491 dBm
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)
MSG
STATUS


Keysight Spectrum Analyzer - Swept SA
RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:44:54 PM Oct 14, 2021
Center Freq 2.497000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ref Offset 6.35 dB
10 dB/div Ref 20.00 dBm
Log
Mkr1 2.455 7 GHz
4.368 dBm
-25.51 dBm
Start 2.44700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.54700 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.455 7 GHz 4.368 dBm
2 N 1 f 2.483 5 GHz -43.622 dBm
3 N 1 f 2.500 0 GHz -53.255 dBm
4 N 1 f 2.483 5 GHz -43.622 dBm
MSG
STATUS

4. AVERAGE OUTPUT POWER

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(3)	Average Output Power	1 watt or 30dBm	2400-2483.5	PASS

4.1.1 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,

b. Spectrum Setting : RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

VBW ≥ RBW

Sweep = auto

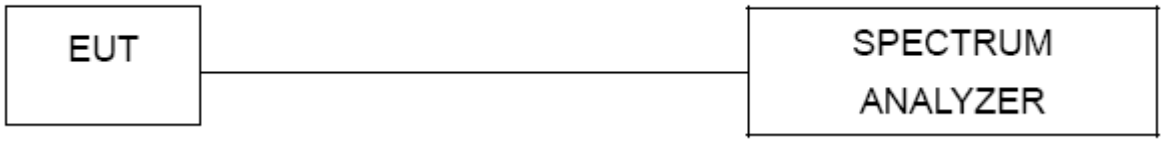
Detector function = peak

Trace = max hold

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



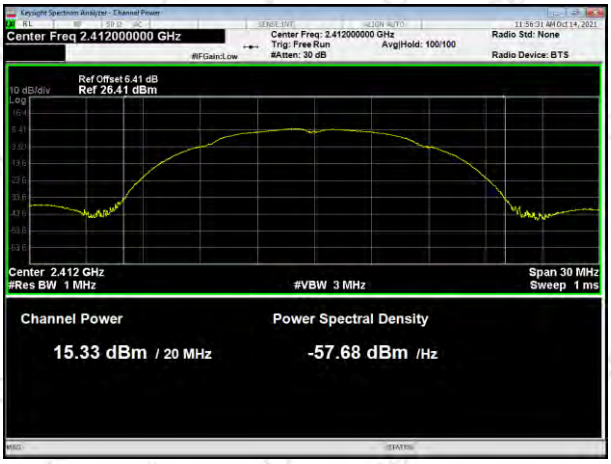
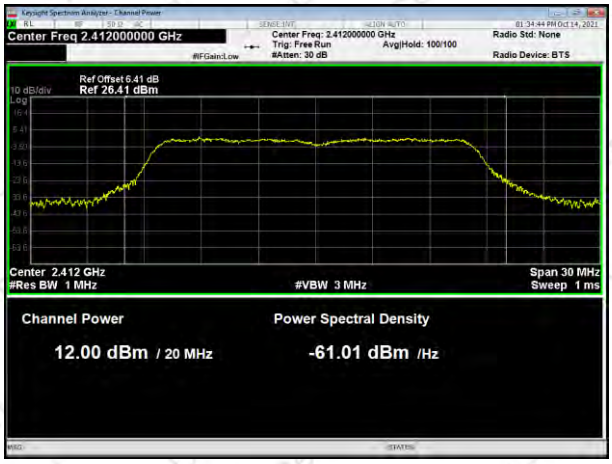
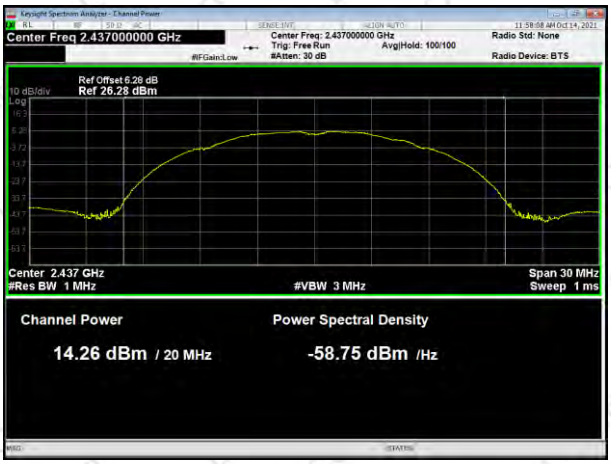
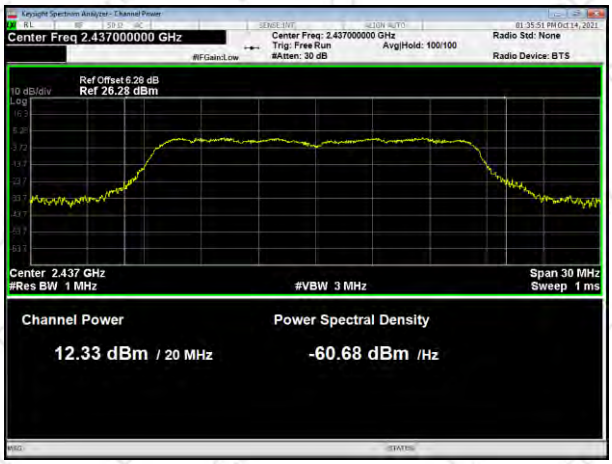
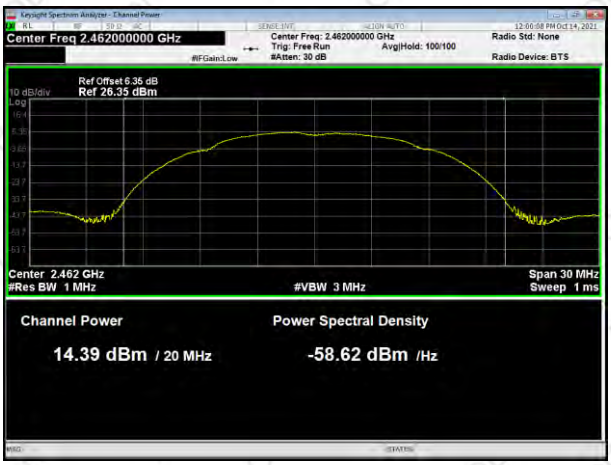
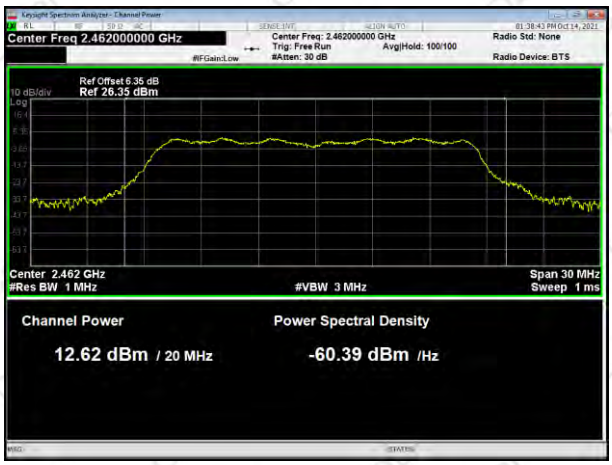
4.1.4 EUT OPERATION CONDITIONS

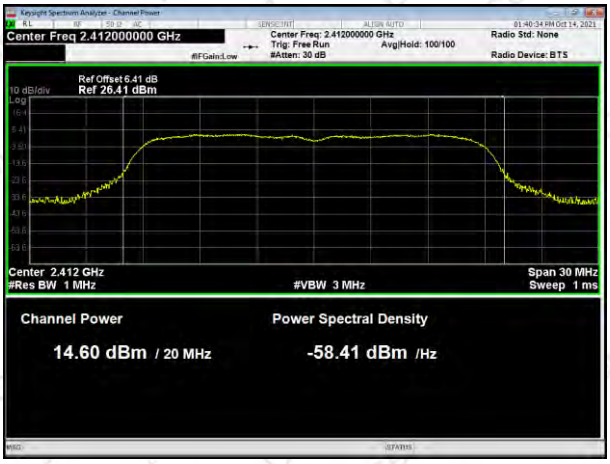
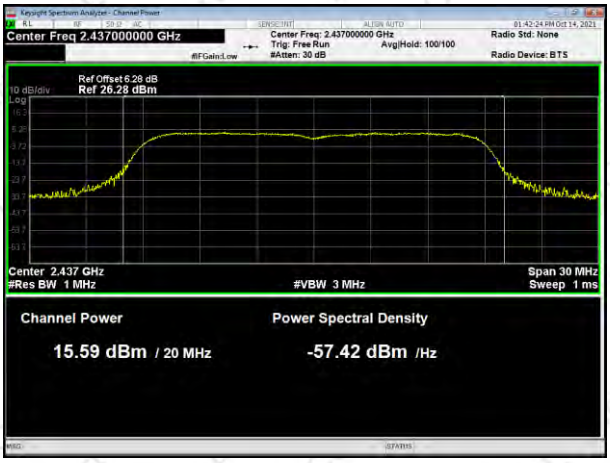
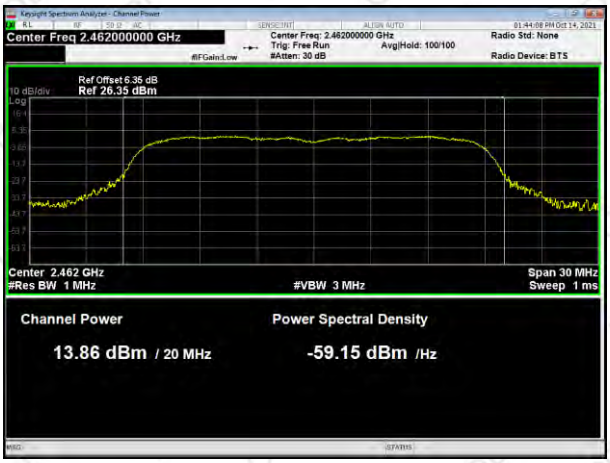
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.3V

Mode	Test Channel	Peak Output Power (dBm)	LIMIT (dBm)
802.11b	Low	15.33	30.00
	Moddle	14.26	30.00
	High	14.39	30.00
802.11g	Low	12.00	30.00
	Moddle	12.33	30.00
	High	12.62	30.00
802.11n HT20	Low	14.60	30.00
	Moddle	15.59	30.00
	High	13.86	30.00

802.11b	802.11g
	
2412MHz	2412MHz
	
2437MHz	2437MHz
	
2462MHz	2462MHz

802.11n HT20	
	
2412MHz	
	
2437MHz	
	
2462MHz	

5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW ≥ 3kHz
VB	VBW ≥ 3RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

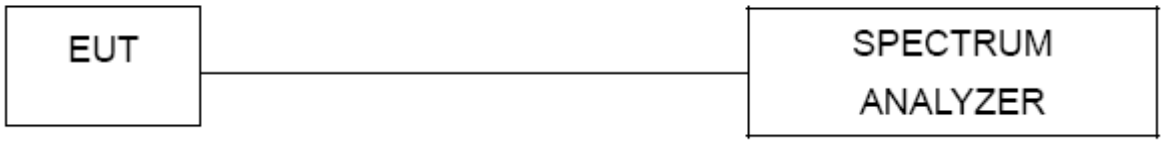
5.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

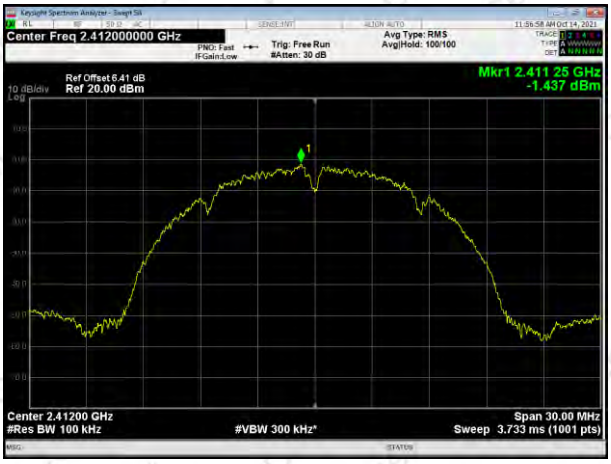
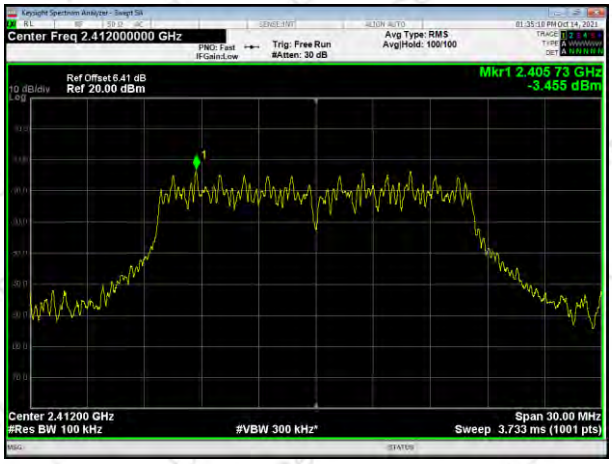
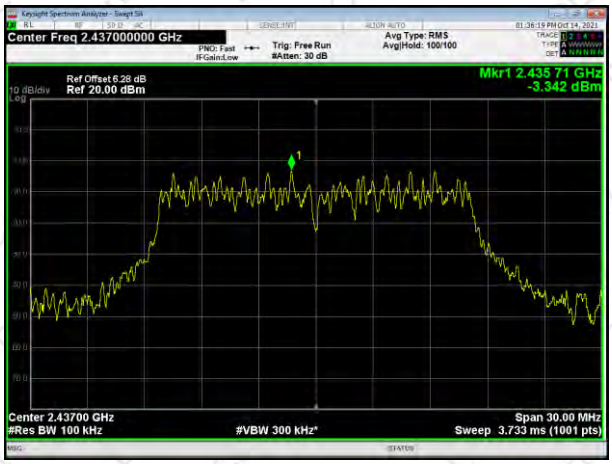
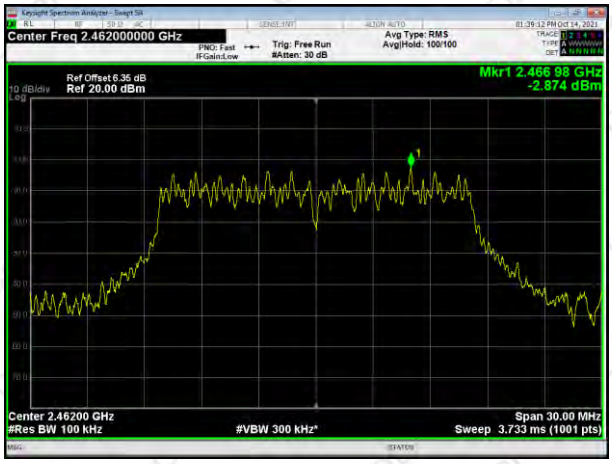


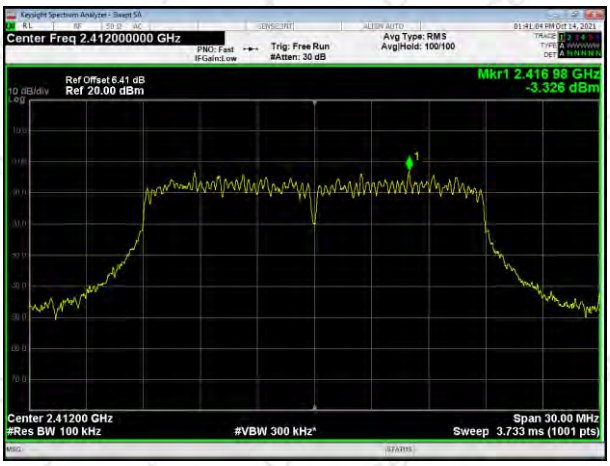
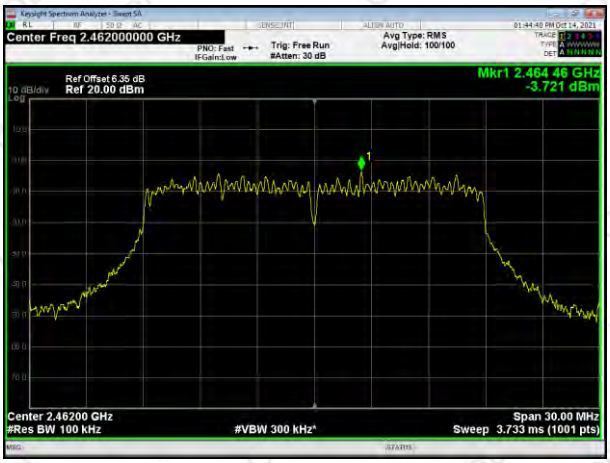
5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

Mode	Test Channel	Reading Level (dBm)	Limit (dBm)	Result
802.11b	Low	-1.437	8	PASS
	Moddle	-2.488	8	PASS
	High	-2.326	8	PASS
802.11g	Low	-3.455	8	PASS
	Moddle	-3.342	8	PASS
	High	-2.874	8	PASS
802.11n20	Low	-3.326	8	PASS
	Moddle	-2.635	8	PASS
	High	-3.721	8	PASS

802.11b	802.11g
	
2412MHz	2412MHz
	
2437MHz	2437MHz
	
2462MHz	2462MHz

802.11n HT20	
	
2412MHz	
2437MHz	
	
2462MHz	

6. 6DB BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range(MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

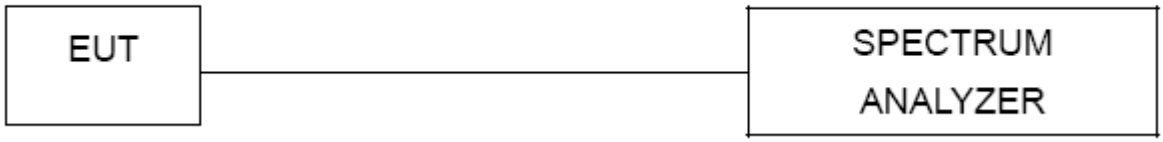
6.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥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.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

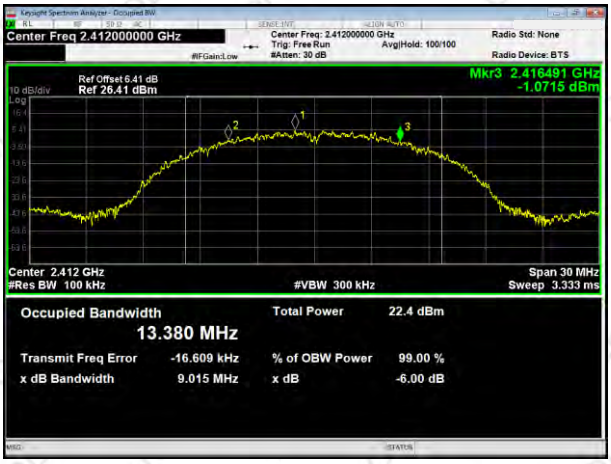
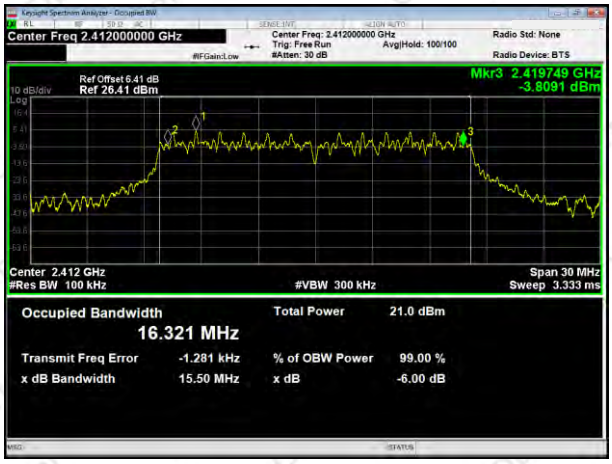
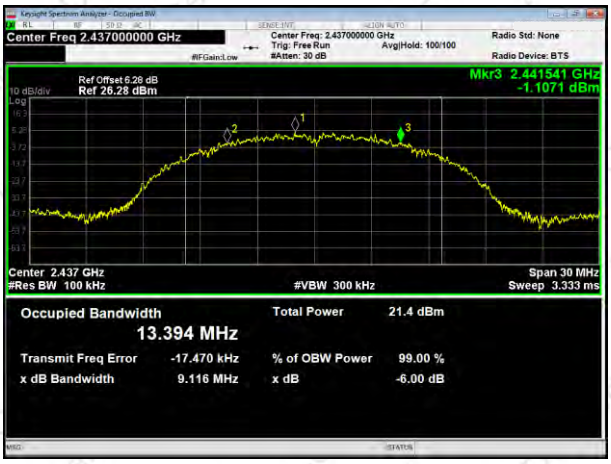


6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

	Test Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	Low	9.015	0.5	Pass
	Middle	9.116	0.5	Pass
	High	9.112	0.5	Pass
802.11g	Low	15.501	0.5	Pass
	Middle	15.491	0.5	Pass
	High	15.492	0.5	Pass
802.11n HT20	Low	16.449	0.5	Pass
	Middle	16.493	0.5	Pass
	High	16.436	0.5	Pass

802.11b	802.11g
	
2412MHz	2412MHz
	
2437MHz	2437MHz
2462MHz	2462MHz

802.11n HT20	
2412MHz	
2437MHz	
2462MHz	

7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

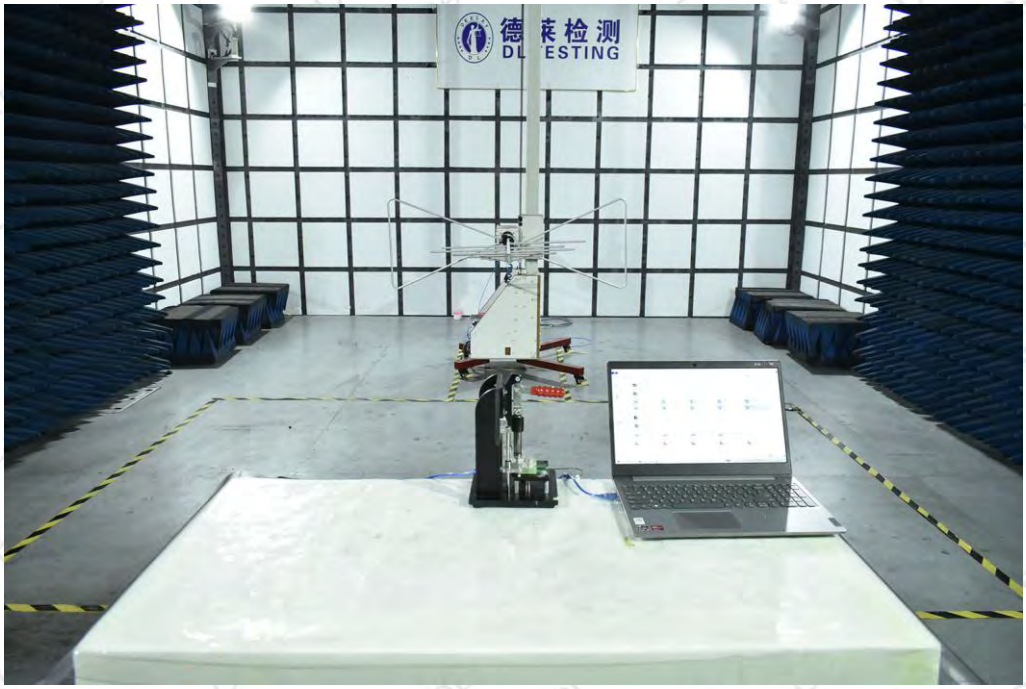
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

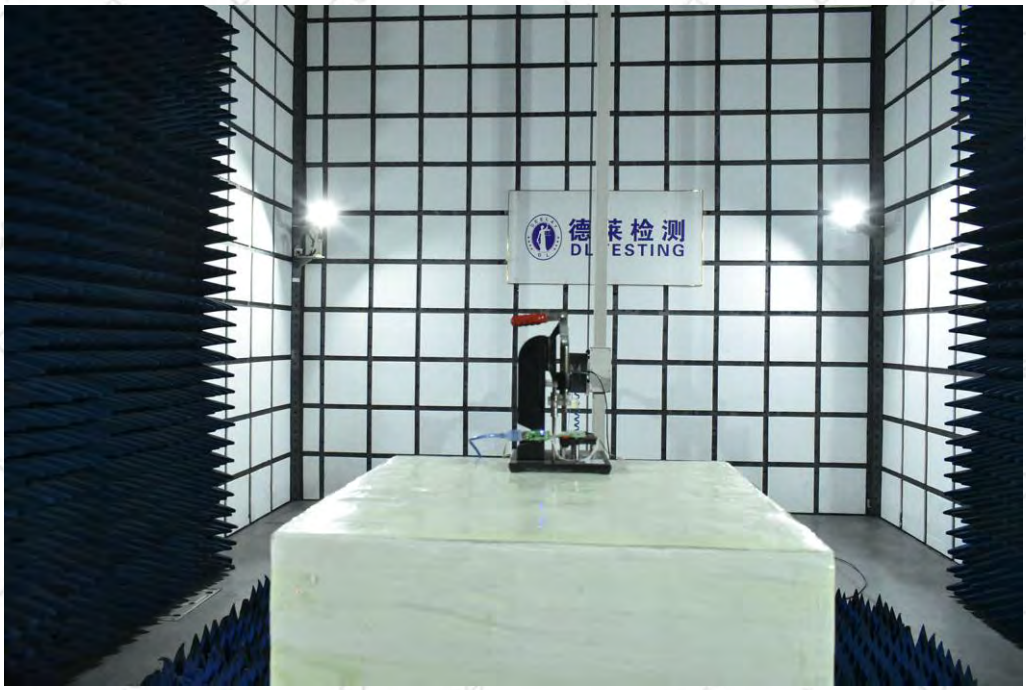
7.2 EUT ANTENNA

The EUT antenna is External antenna, It comply with the standard requirement.

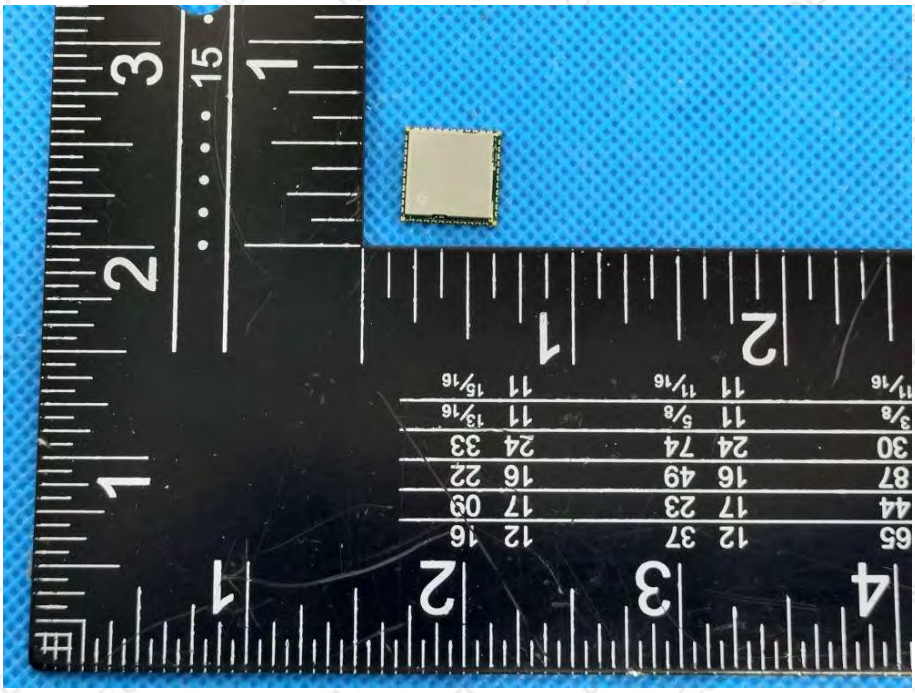
8. TEST SEUUP PHOTO

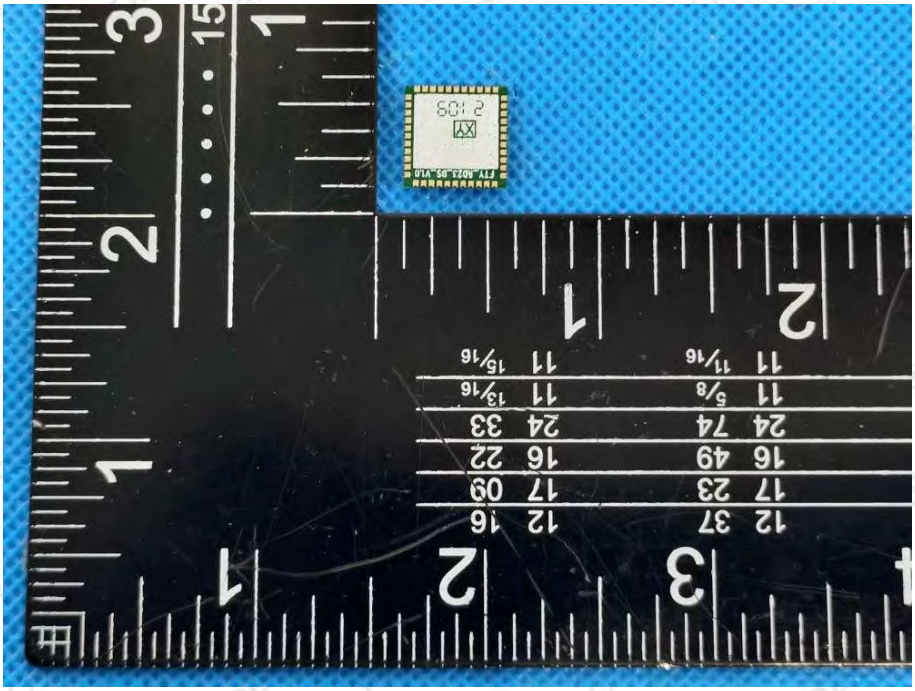
Radiated Measurement Photos

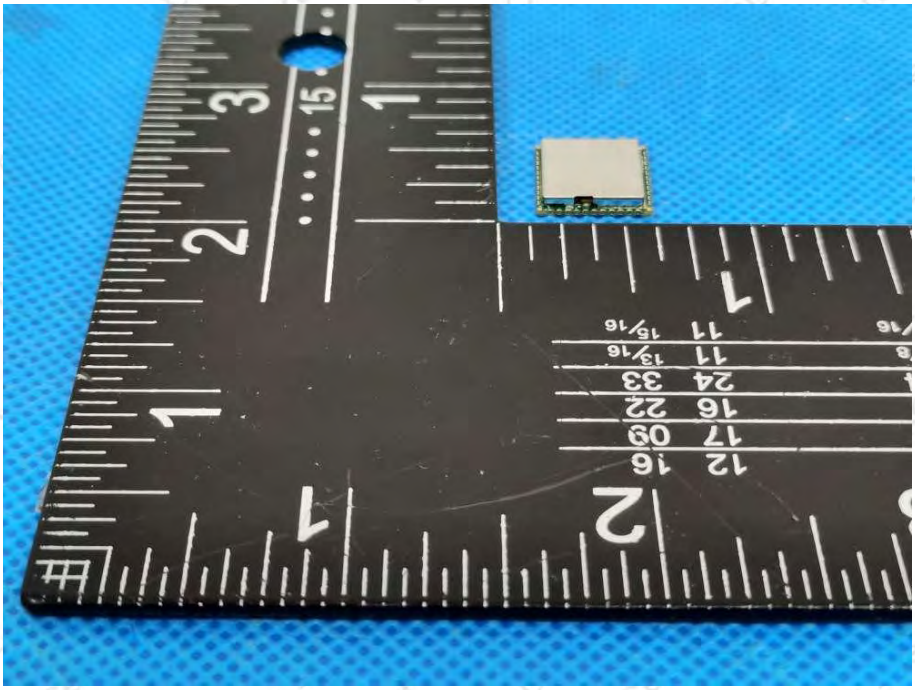


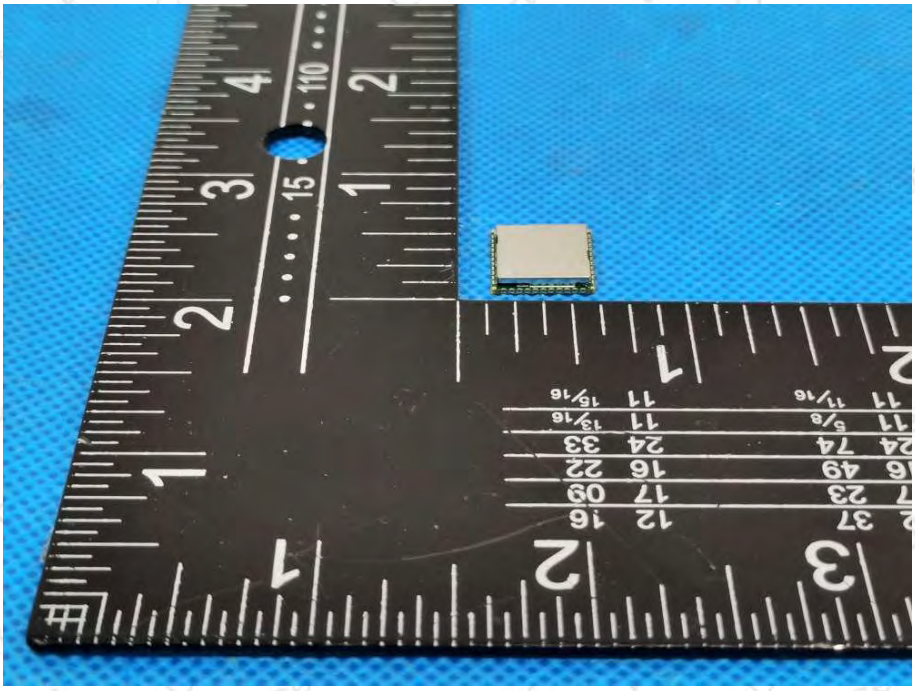


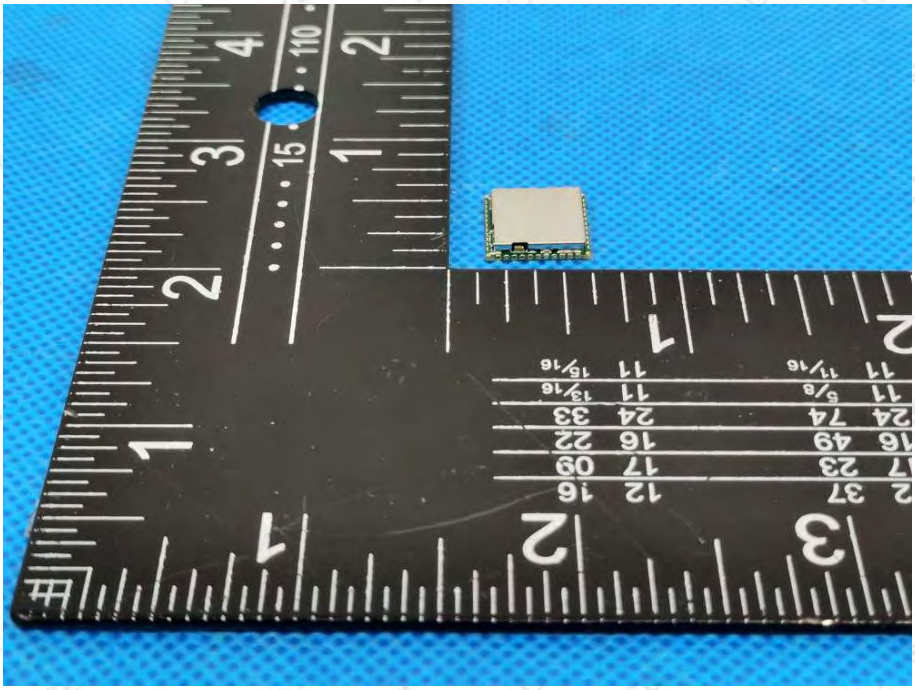
9. EUT PHOTO

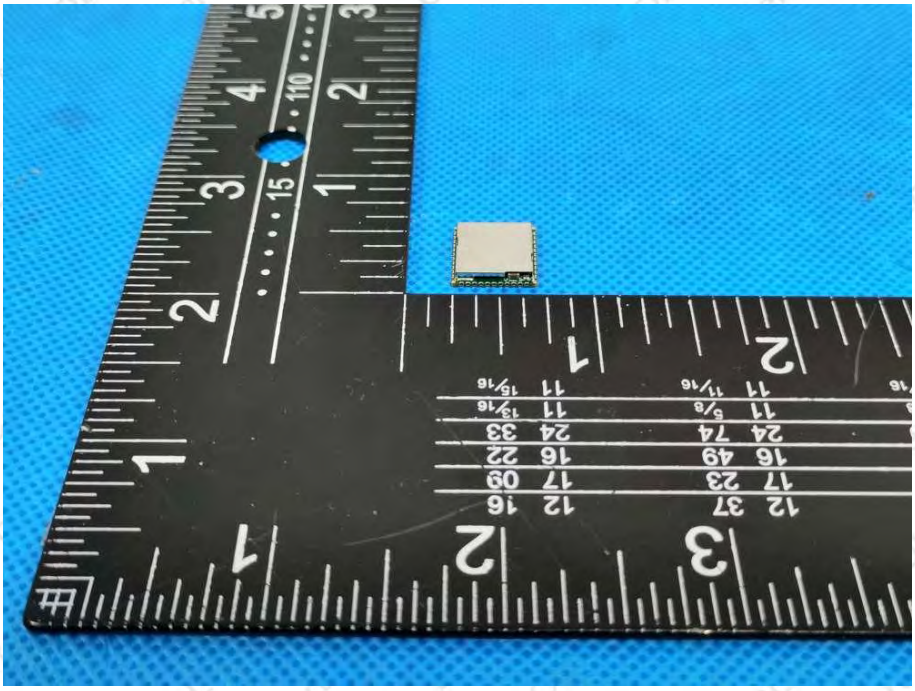


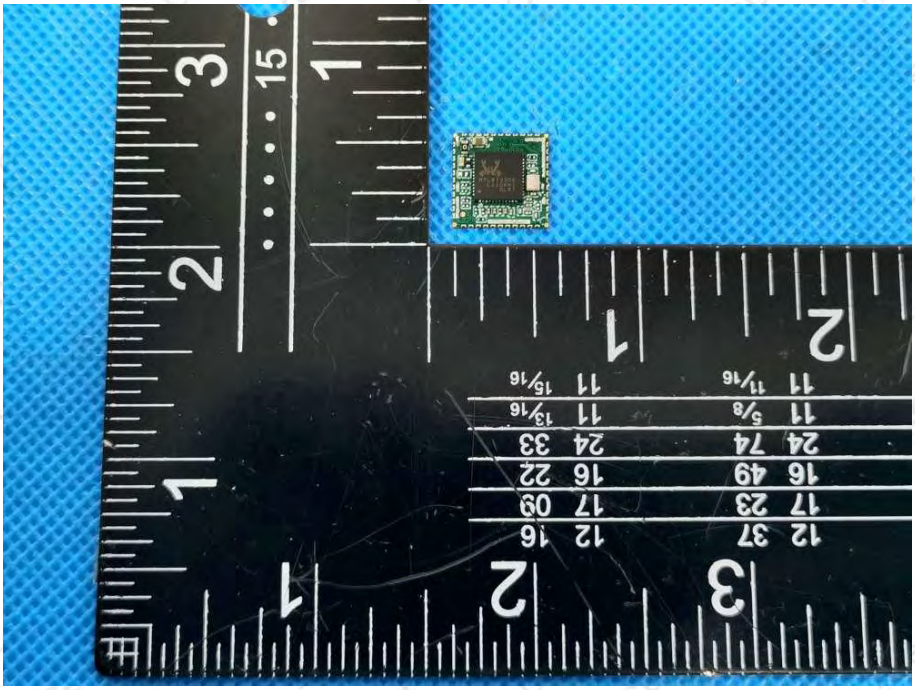


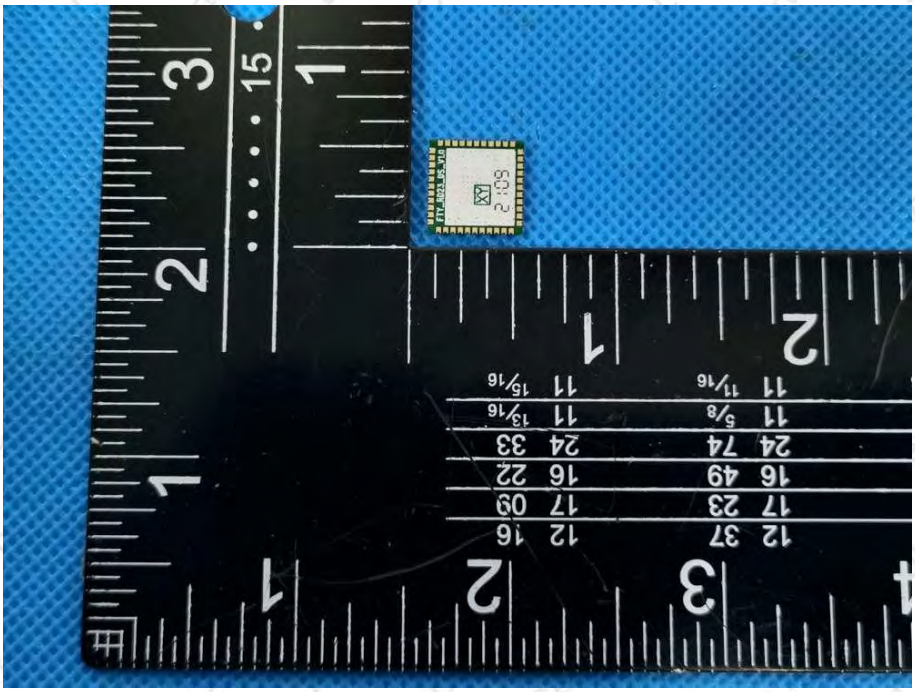


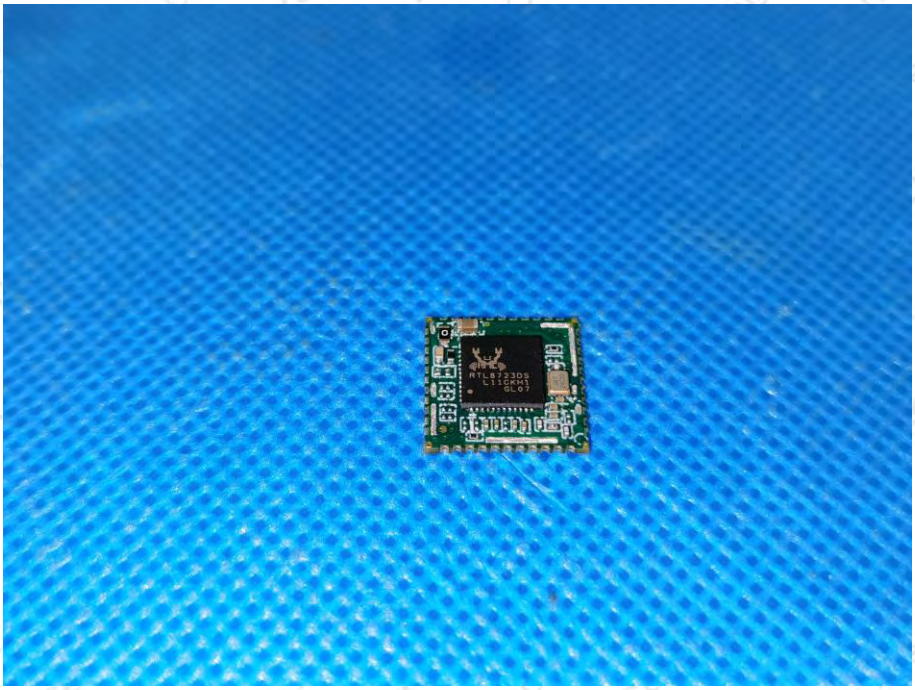












※※※※※ **END OF REPORT** ※※※※※