TEST REPORT
FCC ID:2A9AC810-00006
IC:29672-81000006

Report Number:	ZKT-221101L8115E
Date of Test:	Oct. 26, 2022 to Nov. 03, 2022
Date of issue:	Nov. 03, 2022
Total number of pages:	78
Test Result:	PASS
Testing Laboratory:	**Shenzhen ZKT Technology Co., Ltd.**
Address:	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name:	**BrightAI**
Address:	2021 Fillmore St., PMB2005, San Francisco, California, United States
Manufacturer's name:	**BrightAI**
Address:	2021 Fillmore St., PMB2005, San Francisco, California, United States
Test specification:	
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10:2013 RSS-Gen Issue 5, February 2021 RSS-247 Issue 2, February 2017
Test procedure:	/
Non-standard test method:	N/A
Test Report Form No:	TRF-EL-110_V0
Test Report Form(s) Originator:	ZKT Testing
Master TRF:	Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Product name:	**Scanner, Pan and Tilt**
Trademark:	BrightAI
Model/Type reference:	810-00006

Testing procedure and testing location:

Testing Laboratory.....:	**Shenzhen ZKT Technology Co., Ltd.**
Address.....:	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Tested by (name + signature).....:	Alen He
Reviewer (name + signature).....:	Joe Liu
Approved (name + signature).....:	Lake Xie

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1. VERSION

Report No.	Version	Description	Approved
ZKT-221101L8115E	Rev.01	Initial issue of report	Nov. 03, 2022

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (c) RSS-Gen Section 6.8 RSS-247 5.4	Antenna requirement	PASS	
FCC part 15.207 RSS-Gen Section 8.8	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3) RSS-247 Section 5.4(d)	Conducted Peak Output Power	PASS	
RSS-247 Section 5.4(d)	equivalent isotropically radiated power (e.i.r.p.)	PASS	
FCC part 15.247 (a)(2) RSS-247 Section 5.2(a) RSS-Gen Section 6.7	Channel Bandwidth& 99% OCB	PASS	
FCC part 15.247 (e) RSS-247 Section 5.2(b)	Power Spectral Density	PASS	
FCC part 15.247(d) RSS-247 Section 5.5	Band Edge	PASS	
FCC part 15.205/15.209 RSS-247 Section 5.5	Spurious Emission	PASS	

NOTE:

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

2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033
CAB identifier: CN0110

2.2 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	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8dB
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59℃

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Scanner, Pan and Tilt
Model No.:	810-00006
Model Different.:	N/A
Sample ID	ZKT-221101L8115-1
PMN:	Scanner, Pan and Tilt
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11 802.11b/802.11n (HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/802.11n(H20/H40): Orthogonal Frequency Division Multiplexing(OFDM)
Antenna Type:	Built-in antenna
Antenna gain:	2dBi
HVIN/Hardware version:	810-00006
FVIN/Software version:	V1.0
Power supply:	Adapter: Input：AC100-240V 50/60Hz 1A USB C1 or C2 Output:5V⎓3A/9V⎓3A/12V⎓3A/ 15V⎓2.66A/20V⎓2A DC 15V from the battery

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

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test,the dutycycle >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.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

Test Software	RTL Test Tool
Power level setup	<8dBm

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission

Conducted Emission

DC Line — EUT

Radiated Emission

DC Line — EUT

Conducted Spurious

DC Line — EUT

3.4 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	Scanner, Pan and Tilt	VANTRUE	810-00006	N/A	EUT
E-2	Anker 521 Charger	Anker	A2038	AFZTRW1B42100680	EUT
E-3	PowerCore III	Anker	A1290	AFYL9M0C-42162433	EUT

Item	Shielded Type	Ferrite Core	Length	Note

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.

3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	Oct. 18, 2022	Oct. 17, 2023
2	Spectrum Analyzer (1GHz-40GHz)	R&S	FSQ	100363	Oct. 17, 2022	Oct. 16, 2023
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Oct. 18, 2022	Oct. 17, 2023
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	Oct. 17, 2022	Oct. 16, 2023
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	Oct. 17, 2022	Oct. 16, 2023
6	Loop Antenna	TESEQ	HLA6121	58357	Oct. 17, 2022	Oct. 16, 2023
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747	Oct. 18, 2022	Oct. 17, 2023
8	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	Oct. 18, 2022	Oct. 17, 2023
9	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Oct. 18, 2022	Oct. 17, 2023
10	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A	Oct. 18, 2022	Oct. 17, 2023
11	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Oct. 18, 2022	Oct. 17, 2023
12	ESG Signal Generator	Agilent	E4421B	N/A	Oct. 22, 2022	Oct. 21, 2023
13	Signal Generator	Agilent	N5182A	N/A	Oct. 22, 2022	Oct. 21, 2023
14	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	Oct. 17, 2022	Oct. 16, 2023
15	MWRF Power Meter Test system	MW	MW100-RPCB	N/A	Oct. 22, 2022	Oct. 21, 2023
16	D.C. Power Supply	LongWei	TPR-6405D	N/A	\	\
17	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\
18	RF Software	MW	MTS8310	V2.0.0.0	\	\
19	Turntable	MF	MF-7802BS	N/A	\	\
20	Antenna tower	MF	MF-7802BS	N/A	\	\
21	Signal Generator	Agilent	N5182A	N/A	Oct. 22, 2022	Oct. 21, 2023

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Oct. 22, 2022	Oct. 21, 2023
2	LISN	CYBERTEK	EM5040A	E1850400149	Oct. 22, 2022	Oct. 21, 2023
3	Test Cable	N/A	C01	N/A	Oct. 18, 2022	Oct. 17, 2023
4	Test Cable	N/A	C02	N/A	Oct. 18, 2022	Oct. 17, 2023
5	EMI Test Receiver	R&S	ESCI3	101393	Oct. 17, 2022	Oct. 16, 2023
6	Absorbing Clamp	DZ	ZN23201	15034	Oct. 17, 2022	Oct. 16, 2023
7	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\

RF Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	Oct. 18, 2022	Oct. 17, 2023
2	MWRF Power Meter Test system	MW	MW100-RPCB	N/A	Oct. 22, 2022	Oct. 21, 2023
3	D.C. Power Supply	LongWei	TPR-6405D	N/A	\	\
4	RF Software	MW	MTS8310	V2.0.0.0	\	\

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207 RSS-Gen Section 8.8
Test Method:	ANSI C63.10:2013 and RSS-Gen
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	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) *Decreases with the logarithm of the frequency.

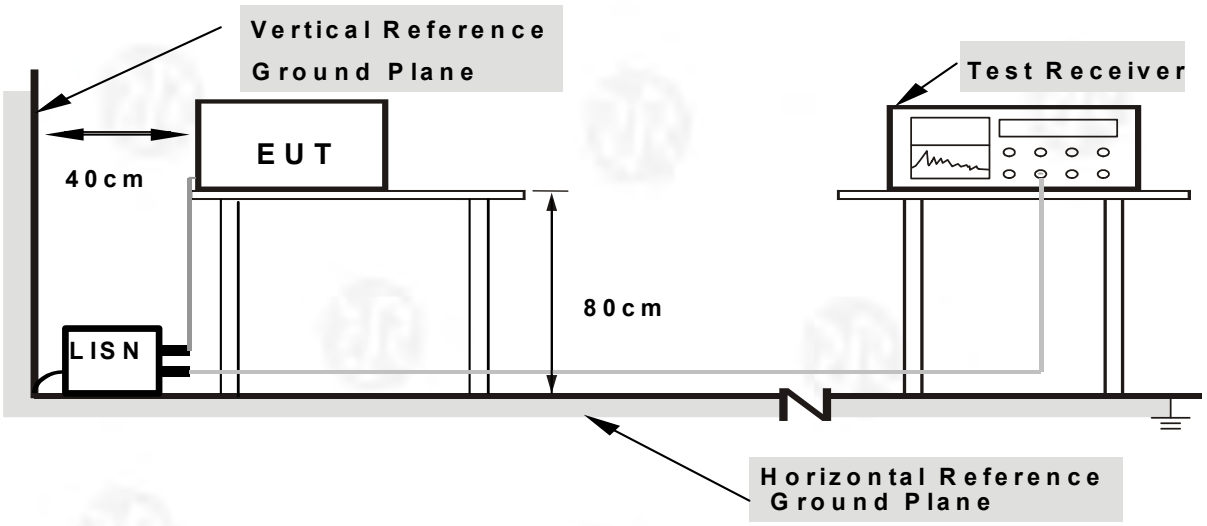
4.1.2 TEST PROCEDURE

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.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 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

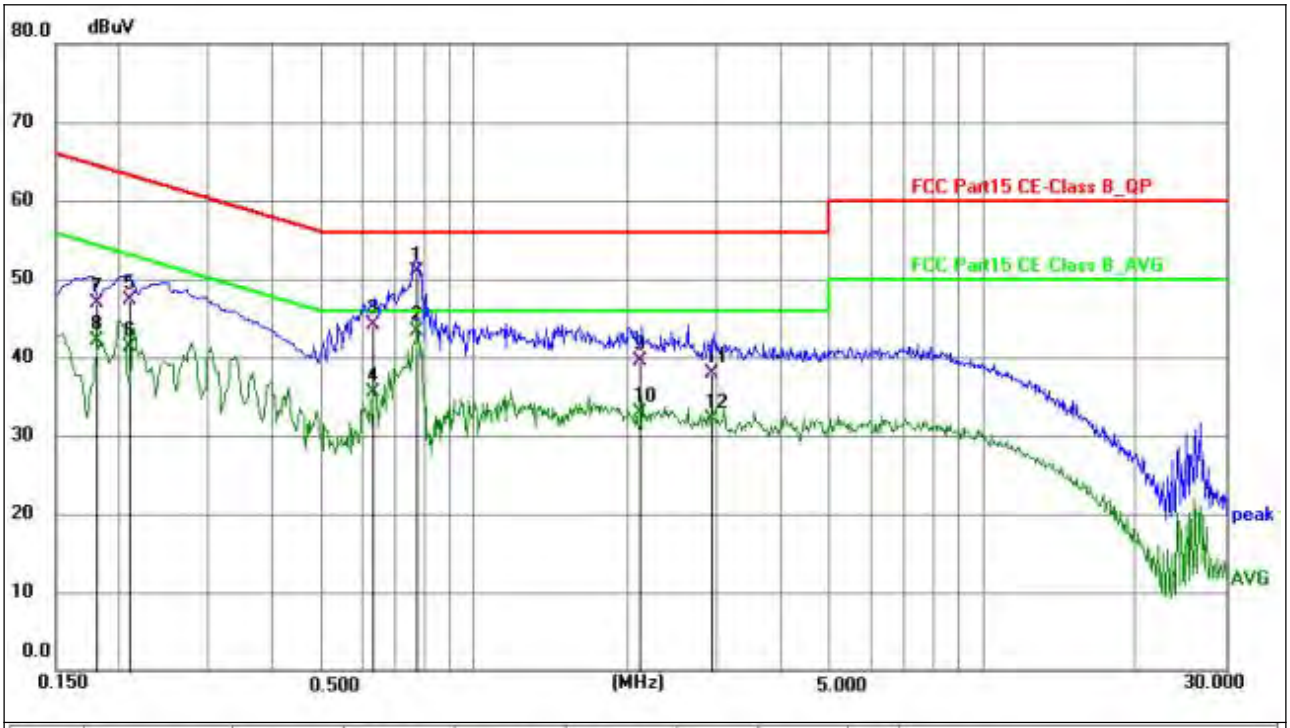
4.1.5 EUT OPERATING CONDITIONS

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.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 TEST RESULT（Worst case 802.11b 2412MHz）

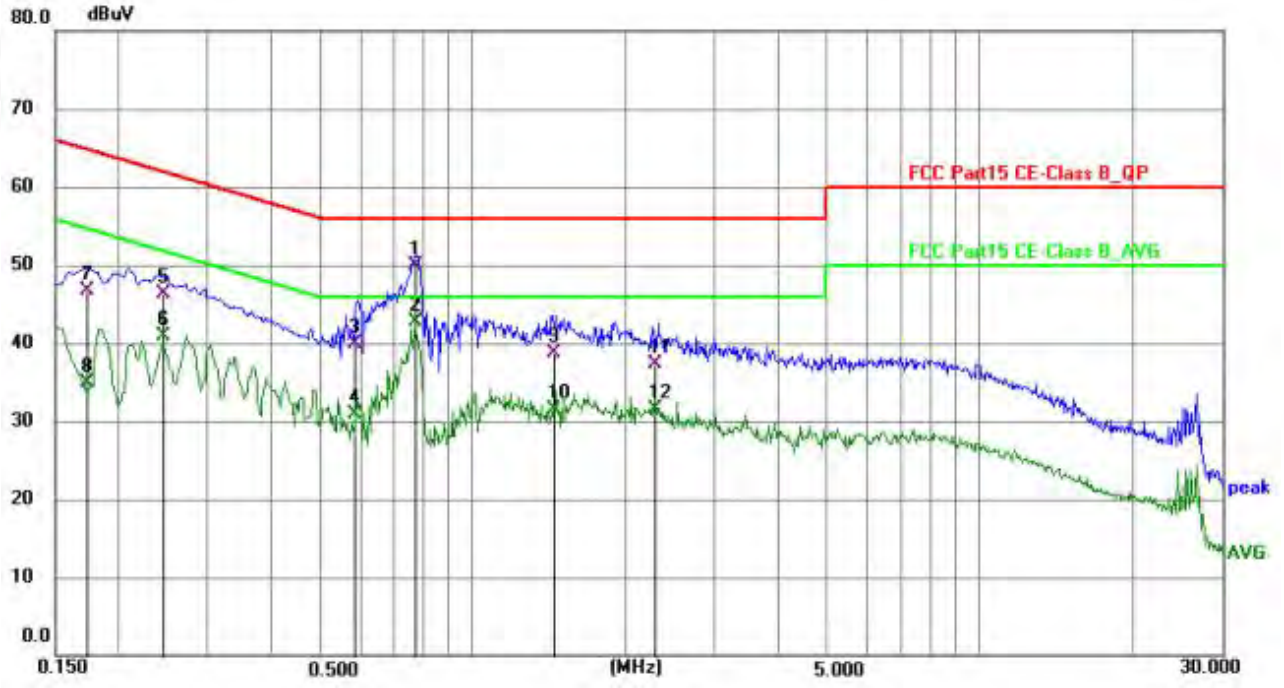
Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Phase：	L
Test Voltage ：	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.7677	41.31	9.67	50.98	56.00	-5.02	QP	P	
2 *	0.7677	33.65	9.67	43.32	46.00	-2.68	AVG	P	
3	0.6329	34.40	9.69	44.09	56.00	-11.91	QP	P	
4	0.6329	25.82	9.69	35.51	46.00	-10.49	AVG	P	
5	0.2101	37.68	9.71	47.39	63.20	-15.81	QP	P	
6	0.2101	31.65	9.71	41.36	53.20	-11.84	AVG	P	
7	0.1806	37.23	9.63	46.86	64.46	-17.60	QP	P	
8	0.1806	32.46	9.63	42.09	54.46	-12.37	AVG	P	
9	2.1281	29.70	9.71	39.41	56.00	-16.59	QP	P	
10	2.1281	23.11	9.71	32.82	46.00	-13.18	AVG	P	
11	2.9421	28.22	9.63	37.85	56.00	-18.15	QP	P	
12	2.9421	22.51	9.63	32.14	46.00	-13.86	AVG	P	

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

Temperature :	26℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.7690	40.33	9.67	50.00	56.00	-6.00	QP	P	
2 *	0.7690	32.95	9.67	42.62	46.00	-3.38	AVG	P	
3	0.5851	30.20	9.66	39.86	56.00	-16.14	QP	P	
4	0.5851	21.15	9.66	30.81	46.00	-15.19	AVG	P	
5	0.2442	36.63	9.70	46.33	61.95	-15.62	QP	P	
6	0.2442	31.17	9.70	40.87	51.95	-11.08	AVG	P	
7	0.1732	37.16	9.60	46.76	64.81	-18.05	QP	P	
8	0.1732	25.25	9.60	34.85	54.81	-19.96	AVG	P	
9	1.4478	29.14	9.61	38.75	56.00	-17.25	QP	P	
10	1.4478	21.90	9.61	31.51	46.00	-14.49	AVG	P	
11	2.2992	27.54	9.69	37.23	56.00	-18.77	QP	P	
12	2.2992	21.77	9.69	31.46	46.00	-14.54	AVG	P	

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209 RSS-247Section 3.3 & RSS-Gen Section 8.9
Test Method:	ANSI C63.10:2013& RSS-Gen
Test Frequency Range:	9kHz to 25GHz
Test site:	Measurement Distance: 3m
Receiver setup:	See table below

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

4.2.1 RADIATED EMISSION LIMITS

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

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).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoiccamber. 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 avariable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum valueof 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 toheights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1meter) 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 bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin 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 andchange form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

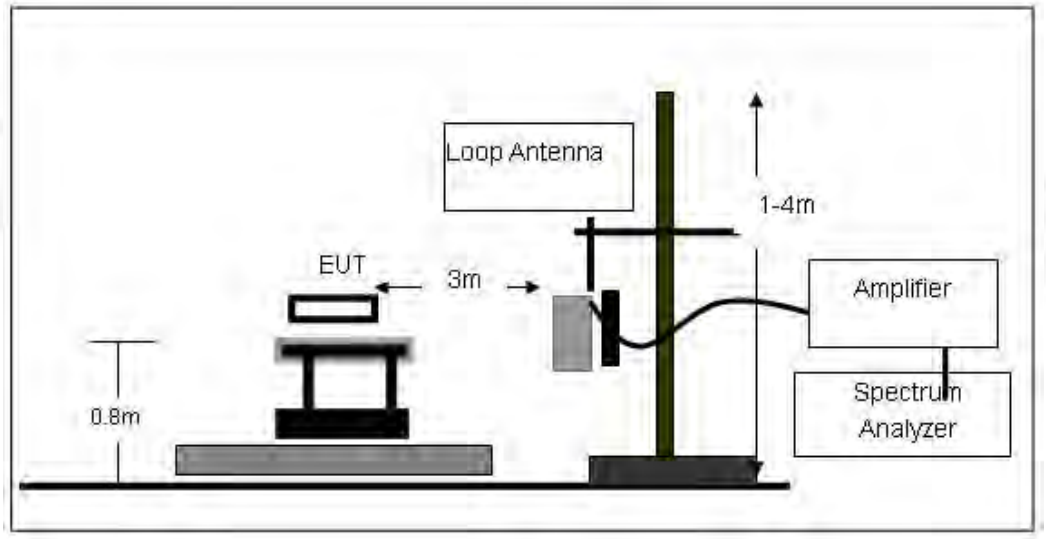
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

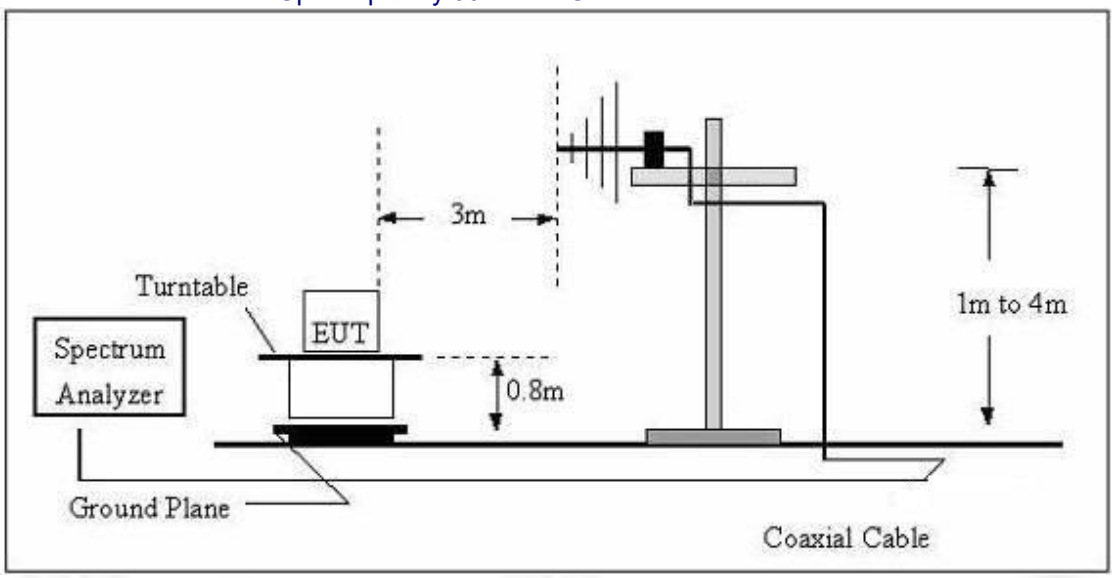
No deviation

4.2.4 TEST SETUP

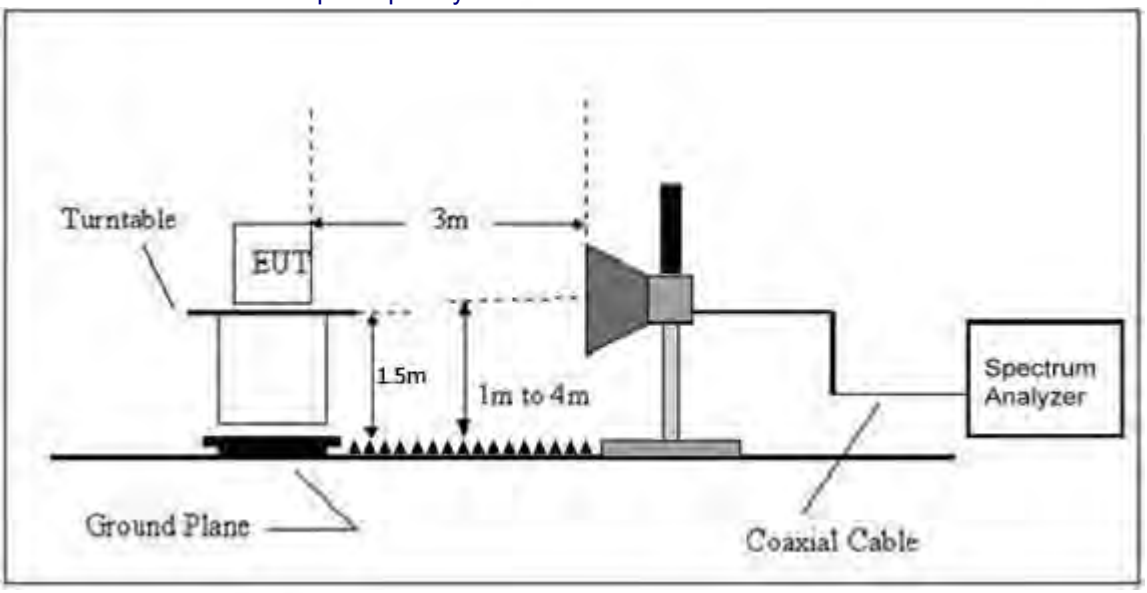
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.2.5 EUT OPERATING 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.

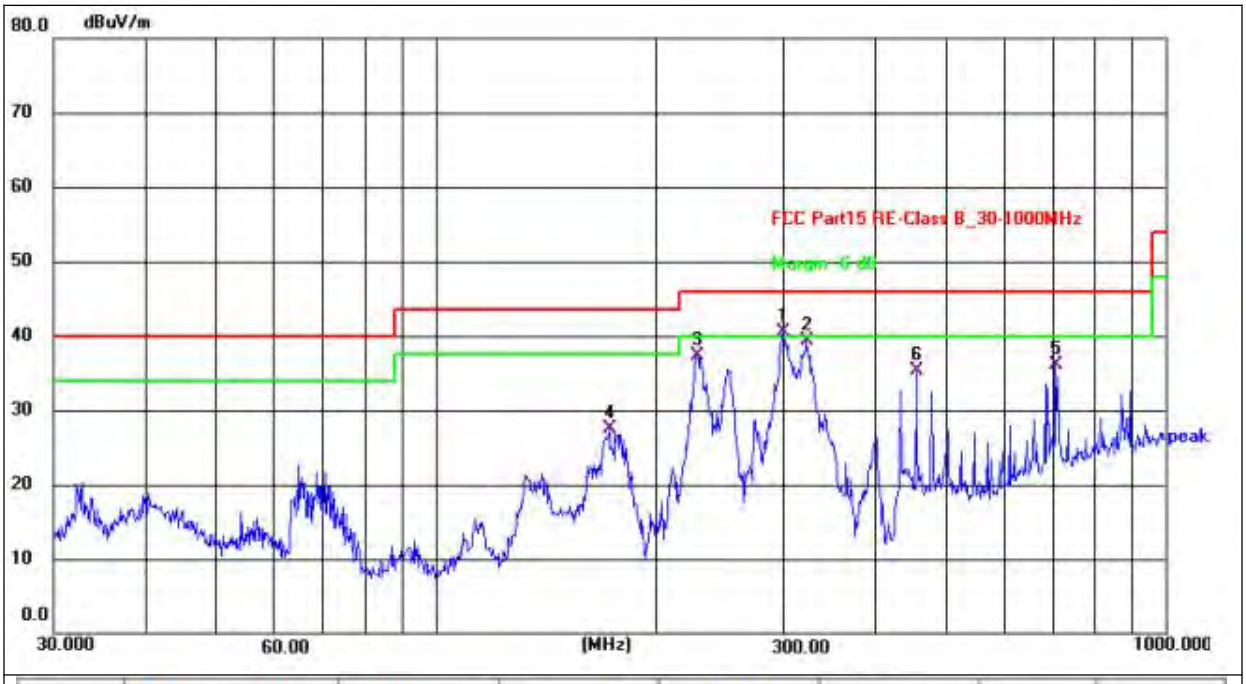
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

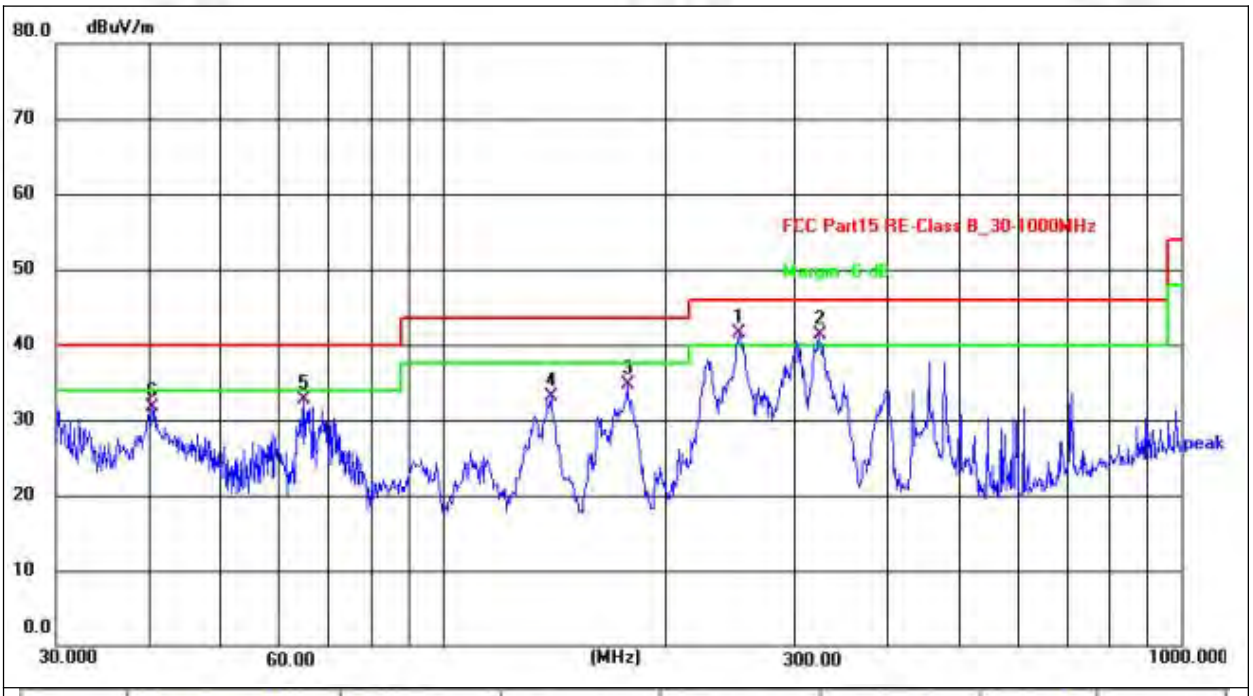
Between 30MHz – 1GHz（Worst case 802.11b 2412MHz）

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	300.3672	56.12	-15.63	40.49	46.00	-5.51	QP
2	322.1885	54.76	-15.38	39.38	46.00	-6.62	QP
3	227.6906	56.04	-18.83	37.21	46.00	-8.79	QP
4	173.2050	44.39	-16.93	27.46	43.50	-16.04	QP
5	706.6998	42.63	-6.58	36.05	46.00	-9.95	QP
6	455.9058	47.10	-11.73	35.37	46.00	-10.63	QP

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	252.0627	59.28	-17.78	41.50	46.00	-4.50	QP
2 !	323.3203	56.77	-15.37	41.40	46.00	-4.60	QP
3	178.1327	52.55	-17.76	34.79	43.50	-8.71	QP
4	140.3420	49.89	-16.78	33.11	43.50	-10.39	QP
5	65.1144	50.54	-17.75	32.79	40.00	-7.21	QP
6	40.5591	47.45	-15.72	31.73	40.00	-8.27	QP

Remarks:
1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2.The emission levels of other frequencies are very lower than the limit and not show in test report.
3.The test data shows only the worst case 802.11b andAC 120Vmode

1GHz~25GHz

802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	51.21	30.55	5.77	24.66	53.42	74.00	-20.58	Pk
V	4824.00	43.89	30.55	5.77	24.66	43.77	54.00	-10.23	AV
V	7236.00	54.11	30.33	6.32	24.55	54.65	74.00	-19.35	Pk
V	7236.00	43.79	30.33	6.32	24.55	44.33	54.00	-9.67	AV
V	9648.00	52.09	30.85	7.45	24.69	53.38	74.00	-20.62	Pk
V	9648.00	43.36	30.85	7.45	24.69	44.65	54.00	-9.35	AV
V	12060.00	54.99	31.02	8.99	25.57	58.53	74.00	-15.47	Pk
V	12060.00	43.91	31.02	8.99	25.57	47.45	54.00	-6.55	AV
H	4824.00	53.84	30.55	5.77	24.66	53.72	74.00	-20.28	Pk
H	4824.00	43.68	30.55	5.77	24.66	43.56	54.00	-10.44	AV
H	7236.00	51.05	30.33	6.32	24.55	51.59	74.00	-22.41	Pk
H	7236.00	43.05	30.33	6.32	24.55	43.59	54.00	-10.41	AV
H	9648.00	53.15	30.85	7.45	24.69	54.44	74.00	-19.56	Pk
H	9648.00	43.73	30.85	7.45	24.69	45.02	54.00	-8.98	AV
H	12060.00	53.62	31.02	8.99	25.57	57.16	74.00	-16.84	Pk
H	12060.00	43.14	31.02	8.99	25.57	46.68	54.00	-7.32	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	52.47	30.55	5.77	24.66	52.35	74.00	-21.65	Pk
V	4874.00	43.02	30.55	5.77	24.66	42.90	54.00	-11.10	AV
V	7311.00	53.41	30.33	6.32	24.55	53.95	74.00	-20.05	Pk
V	7311.00	43.42	30.33	6.32	24.55	43.96	54.00	-10.04	AV
V	9748.00	53.80	30.85	7.45	24.69	55.09	74.00	-18.91	Pk
V	9748.00	43.01	30.85	7.45	24.69	44.30	54.00	-9.70	AV
V	12185.00	52.65	31.02	8.99	25.57	56.19	74.00	-17.81	Pk
V	12185.00	43.27	31.02	8.99	25.57	46.81	54.00	-7.19	AV
H	4874.00	53.20	30.55	5.77	24.66	53.08	74.00	-20.92	Pk
H	4874.00	43.58	30.55	5.77	24.66	43.46	54.00	-10.54	AV
H	7311.00	54.22	30.33	6.32	24.55	54.76	74.00	-19.24	Pk
H	7311.00	43.37	30.33	6.32	24.55	43.91	54.00	-10.09	AV
H	9748.00	54.41	30.85	7.45	24.69	55.70	74.00	-18.30	Pk
H	9748.00	43.83	30.85	7.45	24.69	45.12	54.00	-8.88	AV
H	12185.00	50.86	31.02	8.99	25.57	54.40	74.00	-19.60	Pk
H	12185.00	43.51	31.02	8.99	25.57	47.05	54.00	-6.95	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	51.41	30.55	5.77	24.66	51.29	74.00	-22.71	Pk
V	4924.00	43.59	30.55	5.77	24.66	43.47	54.00	-10.53	AV
V	7386.00	54.52	30.33	6.32	24.55	55.06	74.00	-18.94	Pk
V	7386.00	43.42	30.33	6.32	24.55	43.96	54.00	-10.04	AV
V	9848.00	51.56	30.85	7.45	24.69	52.85	74.00	-21.15	Pk
V	9848.00	43.46	30.85	7.45	24.69	44.75	54.00	-9.25	AV
V	12310.00	52.27	31.02	8.99	25.57	55.81	74.00	-18.19	Pk
V	12310.00	43.86	31.02	8.99	25.57	47.40	54.00	-6.60	AV
H	4924.00	51.28	30.55	5.77	24.66	51.16	74.00	-22.84	Pk
H	4924.00	43.55	30.55	5.77	24.66	43.43	54.00	-10.57	AV
H	7386.00	53.84	30.33	6.32	24.55	54.38	74.00	-19.62	Pk
H	7386.00	43.26	30.33	6.32	24.55	43.80	54.00	-10.20	AV
H	9848.00	51.08	30.85	7.45	24.69	52.37	74.00	-21.63	Pk
H	9848.00	43.62	30.85	7.45	24.69	44.91	54.00	-9.09	AV
H	12310.00	52.58	31.02	8.99	25.57	56.12	74.00	-17.88	Pk
H	12310.00	43.67	31.02	8.99	25.57	47.21	54.00	-6.79	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)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	50.52	30.55	5.77	24.66	50.40	74.00	-23.60	Pk
V	4824.00	43.81	30.55	5.77	24.66	43.69	54.00	-10.31	AV
V	7236.00	54.91	30.33	6.32	24.55	55.45	74.00	-18.55	Pk
V	7236.00	43.85	30.33	6.32	24.55	44.39	54.00	-9.61	AV
V	9648.00	52.49	30.85	7.45	24.69	53.78	74.00	-20.22	Pk
V	9648.00	43.13	30.85	7.45	24.69	44.42	54.00	-9.58	AV
V	12060.00	53.93	31.02	8.99	25.57	57.47	74.00	-16.53	Pk
V	12060.00	43.90	31.02	8.99	25.57	47.44	54.00	-6.56	AV
H	4824.00	51.33	30.55	5.77	24.66	51.21	74.00	-22.79	Pk
H	4824.00	43.90	30.55	5.77	24.66	43.78	54.00	-10.22	AV
H	7236.00	52.37	30.33	6.32	24.55	52.91	74.00	-21.09	Pk
H	7236.00	43.85	30.33	6.32	24.55	44.39	54.00	-9.61	AV
H	9648.00	53.78	30.85	7.45	24.69	55.07	74.00	-18.93	Pk
H	9648.00	43.52	30.85	7.45	24.69	44.81	54.00	-9.19	AV
H	12060.00	52.92	31.02	8.99	25.57	56.46	74.00	-17.54	Pk
H	12060.00	43.67	31.02	8.99	25.57	47.21	54.00	-6.79	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	52.61	30.55	5.77	24.66	52.49	74.00	-21.51	Pk
V	4874.00	43.08	30.55	5.77	24.66	42.96	54.00	-11.04	AV
V	7311.00	53.04	30.33	6.32	24.55	53.58	74.00	-20.42	Pk
V	7311.00	43.72	30.33	6.32	24.55	44.26	54.00	-9.74	AV
V	9748.00	54.17	30.85	7.45	24.69	55.46	74.00	-18.54	Pk
V	9748.00	43.78	30.85	7.45	24.69	45.07	54.00	-8.93	AV
V	12185.00	50.47	31.02	8.99	25.57	54.01	74.00	-19.99	Pk
V	12185.00	43.76	31.02	8.99	25.57	47.30	54.00	-6.70	AV
H	4874.00	54.42	30.55	5.77	24.66	54.30	74.00	-19.70	Pk
H	4874.00	43.31	30.55	5.77	24.66	43.19	54.00	-10.81	AV
H	7311.00	54.33	30.33	6.32	24.55	54.87	74.00	-19.13	Pk
H	7311.00	43.95	30.33	6.32	24.55	44.49	54.00	-9.51	AV
H	9748.00	50.98	30.85	7.45	24.69	52.27	74.00	-21.73	Pk
H	9748.00	43.47	30.85	7.45	24.69	44.76	54.00	-9.24	AV
H	12185.00	54.73	31.02	8.99	25.57	58.27	74.00	-15.73	Pk
H	12185.00	43.60	31.02	8.99	25.57	47.14	54.00	-6.86	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	54.95	30.55	5.77	24.66	54.83	74.00	-19.17	Pk
V	4924.00	43.37	30.55	5.77	24.66	43.25	54.00	-10.75	AV
V	7386.00	52.26	30.33	6.32	24.55	52.80	74.00	-21.20	Pk
V	7386.00	43.23	30.33	6.32	24.55	43.77	54.00	-10.23	AV
V	9848.00	51.09	30.85	7.45	24.69	52.38	74.00	-21.62	Pk
V	9848.00	43.79	30.85	7.45	24.69	45.08	54.00	-8.92	AV
V	12310.00	53.26	31.02	8.99	25.57	56.80	74.00	-17.20	Pk
V	12310.00	43.92	31.02	8.99	25.57	47.46	54.00	-6.54	AV
H	4924.00	53.83	30.55	5.77	24.66	53.71	74.00	-20.29	Pk
H	4924.00	43.71	30.55	5.77	24.66	43.59	54.00	-10.41	AV
H	7386.00	50.19	30.33	6.32	24.55	50.73	74.00	-23.27	Pk
H	7386.00	43.03	30.33	6.32	24.55	43.57	54.00	-10.43	AV
H	9848.00	54.14	30.85	7.45	24.69	55.43	74.00	-18.57	Pk
H	9848.00	43.67	30.85	7.45	24.69	44.96	54.00	-9.04	AV
H	12310.00	52.95	31.02	8.99	25.57	56.49	74.00	-17.51	Pk
H	12310.00	43.78	31.02	8.99	25.57	47.32	54.00	-6.68	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.

802.11n20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	54.22	30.55	5.77	24.66	53.68	74.00	-20.32	Pk
V	4824.00	43.56	30.55	5.77	24.66	43.44	54.00	-10.56	AV
V	7236.00	52.80	30.33	6.32	24.55	53.34	74.00	-20.66	Pk
V	7236.00	43.48	30.33	6.32	24.55	44.02	54.00	-9.98	AV
V	9648.00	54.13	30.85	7.45	24.69	55.42	74.00	-18.58	Pk
V	9648.00	43.43	30.85	7.45	24.69	44.72	54.00	-9.28	AV
V	12060.00	52.23	31.02	8.99	25.57	55.77	74.00	-18.23	Pk
V	12060.00	43.92	31.02	8.99	25.57	47.46	54.00	-6.54	AV
H	4824.00	51.34	30.55	5.77	24.66	51.22	74.00	-22.78	Pk
H	4824.00	43.94	30.55	5.77	24.66	43.82	54.00	-10.18	AV
H	7236.00	50.55	30.33	6.32	24.55	51.09	74.00	-22.91	Pk
H	7236.00	43.45	30.33	6.32	24.55	43.99	54.00	-10.01	AV
H	9648.00	50.16	30.85	7.45	24.69	51.45	74.00	-22.55	Pk
H	9648.00	43.06	30.85	7.45	24.69	44.35	54.00	-9.65	AV
H	12060.00	50.85	31.02	8.99	25.57	54.39	74.00	-19.61	Pk
H	12060.00	43.62	31.02	8.99	25.57	47.16	54.00	-6.84	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	52.03	30.55	5.77	24.66	51.91	74.00	-22.09	Pk
V	4874.00	43.18	30.55	5.77	24.66	43.06	54.00	-10.94	AV
V	7311.00	52.96	30.33	6.32	24.55	53.50	74.00	-20.50	Pk
V	7311.00	43.01	30.33	6.32	24.55	43.55	54.00	-10.45	AV
V	9748.00	51.97	30.85	7.45	24.69	53.26	74.00	-20.74	Pk
V	9748.00	43.89	30.85	7.45	24.69	45.18	54.00	-8.82	AV
V	12185.00	50.38	31.02	8.99	25.57	53.92	74.00	-20.08	Pk
V	12185.00	43.73	31.02	8.99	25.57	47.27	54.00	-6.73	AV
H	4874.00	52.57	30.55	5.77	24.66	52.45	74.00	-21.55	Pk
H	4874.00	43.05	30.55	5.77	24.66	42.93	54.00	-11.07	AV
H	7311.00	51.75	30.33	6.32	24.55	52.29	74.00	-21.71	Pk
H	7311.00	43.36	30.33	6.32	24.55	43.90	54.00	-10.10	AV
H	9748.00	51.81	30.85	7.45	24.69	53.10	74.00	-20.90	Pk
H	9748.00	43.68	30.85	7.45	24.69	44.97	54.00	-9.03	AV
H	12185.00	51.53	31.02	8.99	25.57	55.07	74.00	-18.93	Pk
H	12185.00	43.49	31.02	8.99	25.57	47.03	54.00	-6.97	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	52.35	30.55	5.77	24.66	52.23	74.00	-21.77	Pk
V	4924.00	43.95	30.55	5.77	24.66	43.83	54.00	-10.17	AV
V	7386.00	50.43	30.33	6.32	24.55	50.97	74.00	-23.03	Pk
V	7386.00	43.75	30.33	6.32	24.55	44.29	54.00	-9.71	AV
V	9848.00	54.88	30.85	7.45	24.69	56.17	74.00	-17.83	Pk
V	9848.00	43.34	30.85	7.45	24.69	44.63	54.00	-9.37	AV
V	12310.00	50.37	31.02	8.99	25.57	53.91	74.00	-20.09	Pk
V	12310.00	43.44	31.02	8.99	25.57	46.98	54.00	-7.02	AV
H	4924.00	53.49	30.55	5.77	24.66	53.37	74.00	-20.63	Pk
H	4924.00	43.90	30.55	5.77	24.66	43.78	54.00	-10.22	AV
H	7386.00	54.74	30.33	6.32	24.55	55.28	74.00	-18.72	Pk
H	7386.00	43.98	30.33	6.32	24.55	44.52	54.00	-9.48	AV
H	9848.00	50.68	30.85	7.45	24.69	51.97	74.00	-22.03	Pk
H	9848.00	43.35	30.85	7.45	24.69	44.64	54.00	-9.36	AV
H	12310.00	50.67	31.02	8.99	25.57	54.21	74.00	-19.79	Pk
H	12310.00	43.94	31.02	8.99	25.57	47.48	54.00	-6.52	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.

802.11n40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2422MHz									
V	4844.00	52.94	30.55	5.77	24.66	52.64	74.00	-21.36	Pk
V	4844.00	43.42	30.55	5.77	24.66	43.30	54.00	-10.70	AV
V	7266.00	51.69	30.33	6.32	24.55	52.23	74.00	-21.77	Pk
V	7266.00	43.62	30.33	6.32	24.55	44.16	54.00	-9.84	AV
V	9688.00	53.37	30.85	7.45	24.69	54.66	74.00	-19.34	Pk
V	9688.00	43.95	30.85	7.45	24.69	45.24	54.00	-8.76	AV
V	12110.00	51.40	31.02	8.99	25.57	54.94	74.00	-19.06	Pk
V	12110.00	43.58	31.02	8.99	25.57	47.12	54.00	-6.88	AV
H	4844.00	54.65	30.55	5.77	24.66	54.53	74.00	-19.47	Pk
H	4844.00	43.59	30.55	5.77	24.66	43.47	54.00	-10.53	AV
H	7266.00	54.29	30.33	6.32	24.55	54.83	74.00	-19.17	Pk
H	7266.00	43.25	30.33	6.32	24.55	43.79	54.00	-10.21	AV
H	9688.00	53.65	30.85	7.45	24.69	54.94	74.00	-19.06	Pk
H	9688.00	43.45	30.85	7.45	24.69	44.74	54.00	-9.26	AV
H	12110.00	50.09	31.02	8.99	25.57	53.63	74.00	-20.37	Pk
H	12110.00	43.57	31.02	8.99	25.57	47.11	54.00	-6.89	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	50.95	30.55	5.77	24.66	52.23	74.00	-21.77	Pk
V	4874.00	43.09	30.55	5.77	24.66	43.48	54.00	-10.52	AV
V	7311.00	51.21	30.33	6.32	24.55	54.16	74.00	-19.84	Pk
V	7311.00	43.15	30.33	6.32	24.55	43.66	54.00	-10.34	AV
V	9748.00	52.03	30.85	7.45	24.69	53.63	74.00	-20.37	Pk
V	9748.00	43.39	30.85	7.45	24.69	44.52	54.00	-9.48	AV
V	12185.00	53.99	31.02	8.99	25.57	56.82	74.00	-17.18	Pk
V	12185.00	43.16	31.02	8.99	25.57	47.86	54.00	-6.14	AV
H	4874.00	53.26	30.55	5.77	24.66	53.14	74.00	-20.86	Pk
H	4874.00	43.37	30.55	5.77	24.66	43.13	54.00	-10.87	AV
H	7311.00	51.49	30.33	6.32	24.55	52.82	74.00	-21.18	Pk
H	7311.00	43.56	30.33	6.32	24.55	43.19	54.00	-10.81	AV
H	9748.00	53.73	30.85	7.45	24.69	54.46	74.00	-19.54	Pk
H	9748.00	43.53	30.85	7.45	24.69	44.82	54.00	-9.18	AV
H	12185.00	53.53	31.02	8.99	25.57	54.88	74.00	-19.12	Pk
H	12185.00	43.51	31.02	8.99	25.57	45.75	54.00	-8.25	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2452MHz									
V	4904.00	53.93	30.55	5.77	24.66	53.81	74.00	-20.19	Pk
V	4904.00	43.47	30.55	5.77	24.66	43.35	54.00	-10.65	AV
V	7356.00	50.70	30.33	6.32	24.55	51.24	74.00	-22.76	Pk
V	7356.00	43.88	30.33	6.32	24.55	44.42	54.00	-9.58	AV
V	9808.00	52.91	30.85	7.45	24.69	54.20	74.00	-19.80	Pk
V	9808.00	43.57	30.85	7.45	24.69	44.86	54.00	-9.14	AV
V	12260.00	52.95	31.02	8.99	25.57	56.49	74.00	-17.51	Pk
V	12260.00	43.31	31.02	8.99	25.57	46.85	54.00	-7.15	AV
H	4904.00	54.58	30.55	5.77	24.66	54.46	74.00	-19.54	Pk
H	4904.00	43.12	30.55	5.77	24.66	43.00	54.00	-11.00	AV
H	7356.00	51.22	30.33	6.32	24.55	51.76	74.00	-22.24	Pk
H	7356.00	43.43	30.33	6.32	24.55	43.97	54.00	-10.03	AV
H	9808.00	50.79	30.85	7.45	24.69	52.08	74.00	-21.92	Pk
H	9808.00	43.13	30.85	7.45	24.69	44.42	54.00	-9.58	AV
H	12260.00	50.07	31.02	8.99	25.57	53.61	74.00	-20.39	Pk
H	12260.00	43.56	31.02	8.99	25.57	47.10	54.00	-6.90	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.

5.RADIATED BAND EMISSIONMEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205 RSS-247Section 3.3 & RSS-Gen Section 8.10
Test Method:	ANSI C63.10: 2013 & RSS-Gen
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.
Test site:	Measurement Distance: 3m
Receiver setup:	See table below

Frequency	Detector	RBW	VBW	Value
Above 1GHz	Peak	1MHz	3MHz	Peak
	Average	1MHz	10Hz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (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).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. The EUT was placed on the top of a rotating table 1.5 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 bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.

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

Note:

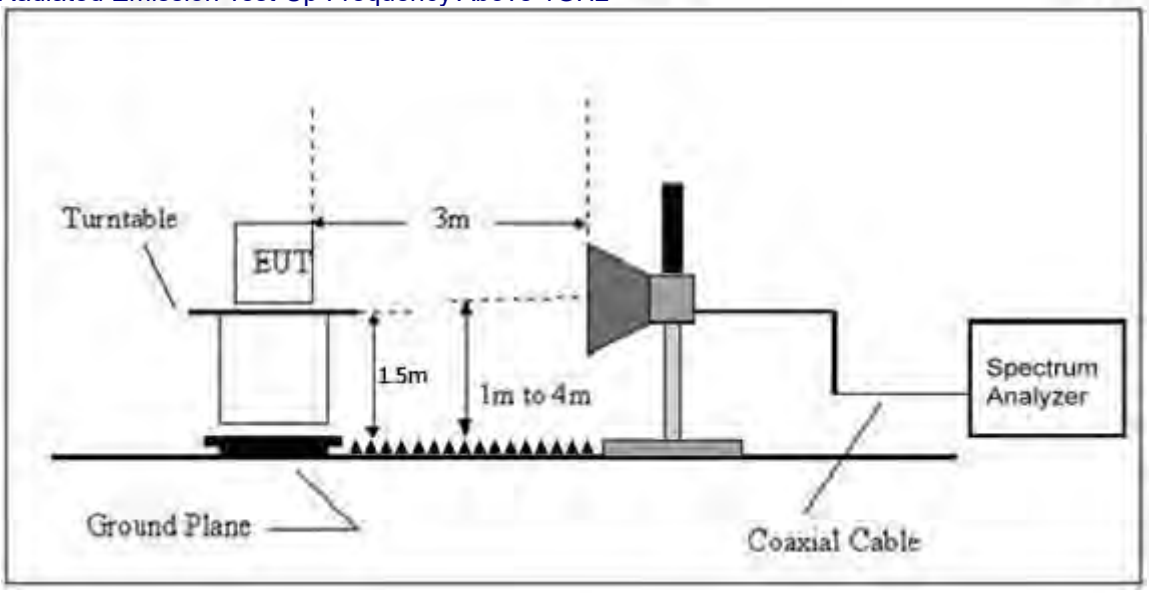
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 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.

5.6 TEST RESULT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Detector Type	Result
802.11b	LowChannel 2412MHz									
	H	2390.00	53.75	30.22	4.85	23.98	53.78	74.00	Pk	PASS
	H	2390.00	44.56	30.22	4.85	23.98	43.17	54.00	AV	PASS
	H	2400.00	54.24	30.22	4.85	23.98	52.85	74.00	Pk	PASS
	H	2400.00	44.17	30.22	4.85	23.98	42.78	54.00	AV	PASS
	V	2390.00	53.70	30.22	4.85	23.98	52.31	74.00	Pk	PASS
	V	2390.00	44.47	30.22	4.85	23.98	43.08	54.00	AV	PASS
	V	2400.00	54.37	30.22	4.85	23.98	52.98	74.00	Pk	PASS
	V	2400.00	44.50	30.22	4.85	23.98	43.11	54.00	AV	PASS
	HighChannel 2462MHz									
	H	2483.50	54.77	30.22	4.85	23.98	53.38	74.00	Pk	PASS
	H	2483.50	45.00	30.22	4.85	23.98	43.61	54.00	AV	PASS
	H	2500.00	54.62	30.22	4.85	23.98	53.23	74.00	Pk	PASS
	H	2500.00	44.76	30.22	4.85	23.98	43.37	54.00	AV	PASS
	V	2483.50	53.39	30.22	4.85	23.98	52.00	74.00	Pk	PASS
	V	2483.50	44.38	30.22	4.85	23.98	42.99	54.00	AV	PASS
	V	2500.00	53.99	30.22	4.85	23.98	52.60	74.00	Pk	PASS
	V	2500.00	44.24	30.22	4.85	23.98	42.85	54.00	AV	PASS
802.11g	LowChannel 2412MHz									
	H	2390.00	53.86	30.22	4.85	23.98	52.47	74.00	Pk	PASS
	H	2390.00	44.90	30.22	4.85	23.98	43.51	54.00	AV	PASS
	H	2400.00	54.44	30.22	4.85	23.98	53.05	74.00	Pk	PASS
	H	2400.00	44.61	30.22	4.85	23.98	43.22	54.00	AV	PASS
	V	2390.00	54.26	30.22	4.85	23.98	52.87	74.00	Pk	PASS
	V	2390.00	44.43	30.22	4.85	23.98	43.04	54.00	AV	PASS
	V	2400.00	54.24	30.22	4.85	23.98	52.85	74.00	Pk	PASS
	V	2400.00	44.59	30.22	4.85	23.98	43.20	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	53.67	30.22	4.85	23.98	52.28	74.00	Pk	PASS
	H	2483.50	44.89	30.22	4.85	23.98	43.50	54.00	AV	PASS
	H	2500.00	53.18	30.22	4.85	23.98	51.79	74.00	Pk	PASS
	H	2500.00	44.48	30.22	4.85	23.98	43.09	54.00	AV	PASS
	V	2483.50	53.42	30.22	4.85	23.98	52.03	74.00	Pk	PASS
	V	2483.50	44.95	30.22	4.85	23.98	43.56	54.00	AV	PASS
	V	2500.00	53.92	30.22	4.85	23.98	52.53	74.00	Pk	PASS
	V	2500.00	44.97	30.22	4.85	23.98	43.58	54.00	AV	PASS
802.11n20	LowChannel 2412MHz									
	H	2390.00	53.83	30.22	4.85	23.98	52.44	74.00	Pk	PASS
	H	2390.00	44.09	30.22	4.85	23.98	42.70	54.00	AV	PASS
	H	2400.00	54.53	30.22	4.85	23.98	53.14	74.00	Pk	PASS
	H	2400.00	44.39	30.22	4.85	23.98	43.00	54.00	AV	PASS
	V	2390.00	53.66	30.22	4.85	23.98	52.27	74.00	Pk	PASS
	V	2390.00	44.31	30.22	4.85	23.98	42.92	54.00	AV	PASS
	V	2400.00	53.88	30.22	4.85	23.98	52.49	74.00	Pk	PASS
	V	2400.00	44.38	30.22	4.85	23.98	42.99	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	54.18	30.22	4.85	23.98	52.79	74.00	Pk	PASS
	H	2483.50	44.94	30.22	4.85	23.98	43.55	54.00	AV	PASS
	H	2500.00	54.16	30.22	4.85	23.98	52.77	74.00	Pk	PASS
	H	2500.00	44.63	30.22	4.85	23.98	43.24	54.00	AV	PASS
	V	2483.50	53.71	30.22	4.85	23.98	52.32	74.00	Pk	PASS
	V	2483.50	44.48	30.22	4.85	23.98	43.09	54.00	AV	PASS
	V	2500.00	54.30	30.22	4.85	23.98	52.91	74.00	Pk	PASS

	V	2500.00	44.90	30.22	4.85	23.98	43.51	54.00	AV	PASS
802.11n40	LowChannel 2422MHz									
	H	2390.00	53.79	30.22	4.85	23.98	52.15	74.00	Pk	PASS
	H	2390.00	44.21	30.22	4.85	23.98	42.82	54.00	AV	PASS
	H	2400.00	53.05	30.22	4.85	23.98	51.66	74.00	Pk	PASS
	H	2400.00	44.86	30.22	4.85	23.98	43.47	54.00	AV	PASS
	V	2390.00	54.40	30.22	4.85	23.98	53.01	74.00	Pk	PASS
	V	2390.00	44.09	30.22	4.85	23.98	42.70	54.00	AV	PASS
	V	2400.00	53.92	30.22	4.85	23.98	52.53	74.00	Pk	PASS
	V	2400.00	44.65	30.22	4.85	23.98	43.26	54.00	AV	PASS
	High Channel 2452MHz									
	H	2483.50	53.47	30.22	4.85	23.98	52.08	74.00	Pk	PASS
	H	2483.50	44.32	30.22	4.85	23.98	42.93	54.00	AV	PASS
	H	2500.00	54.63	30.22	4.85	23.98	53.24	74.00	Pk	PASS
	H	2500.00	44.05	30.22	4.85	23.98	42.66	54.00	AV	PASS
	V	2483.50	53.41	30.22	4.85	23.98	52.02	74.00	Pk	PASS
	V	2483.50	44.98	30.22	4.85	23.98	43.59	54.00	AV	PASS
	V	2500.00	54.85	30.22	4.85	23.98	53.46	74.00	Pk	PASS
	V	2500.00	44.76	30.22	4.85	23.98	43.37	54.00	AV	PASS

Remark:

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

6.POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e) RSS-247 Section 5.2(b)
Test Method:	ANSI C63.10:2013 and KDB 558074 D01 15.247 Meas Guidance v05r02 and RSS-Gen KDB 662911 D01 Multiple Transmitter Output v02r01

6.1 APPLIED PROCEDURES / LIMIT

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

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

6.5 EUT OPERATION CONDITIONS

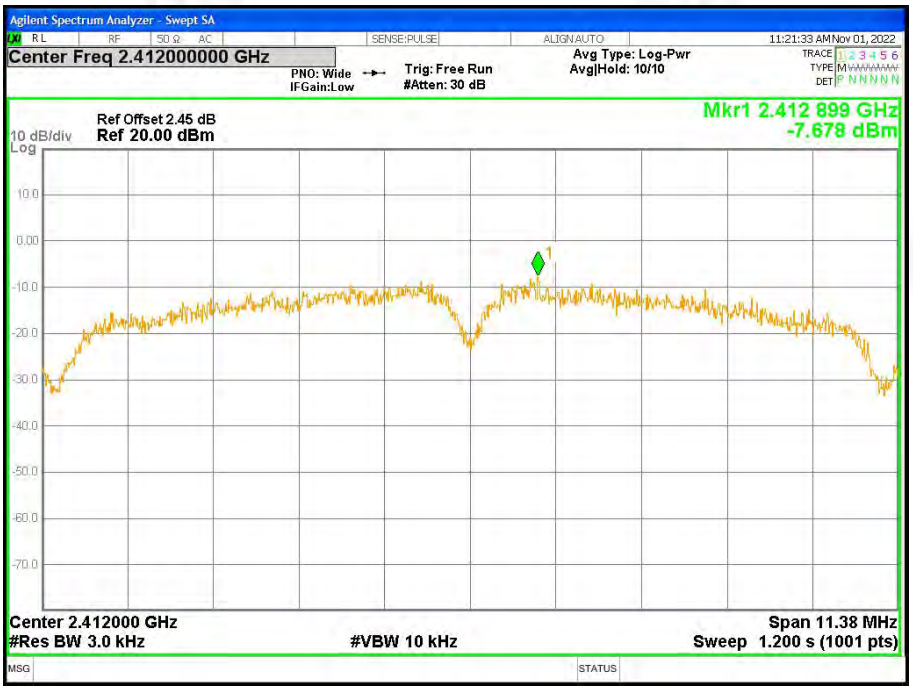
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULT

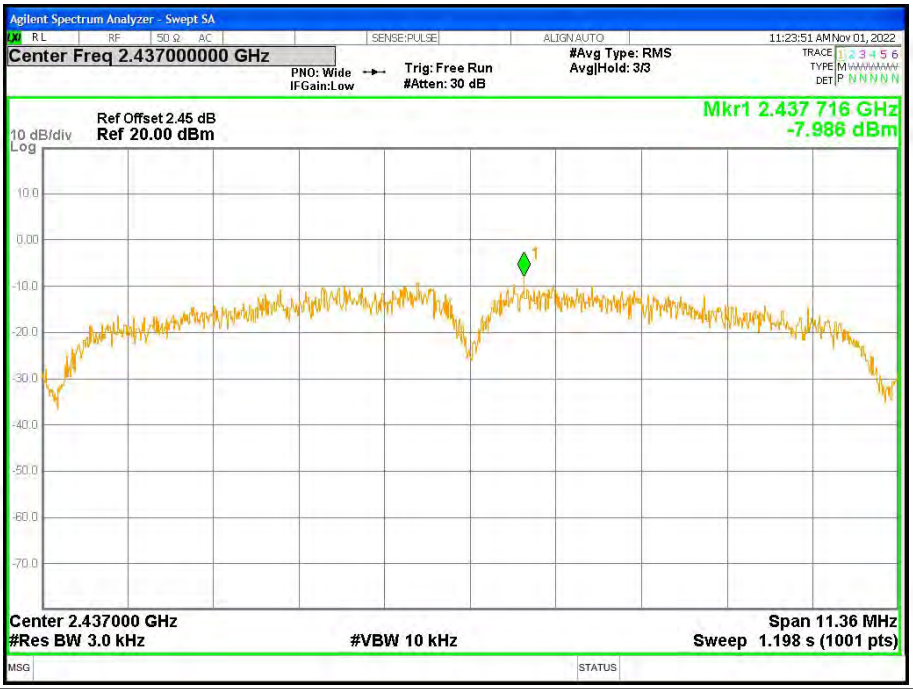
Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 15V
Test Mode ：	TX b Mode		

Operation mode	CH	Power Spectral Density (dBm/MHz)		
		ANT0	ANT1	Total
TX b Mode	Low	-7.67	-7.40	/
	Middle	-7.98	-8.85	/
	High	-8.10	-9.09	/

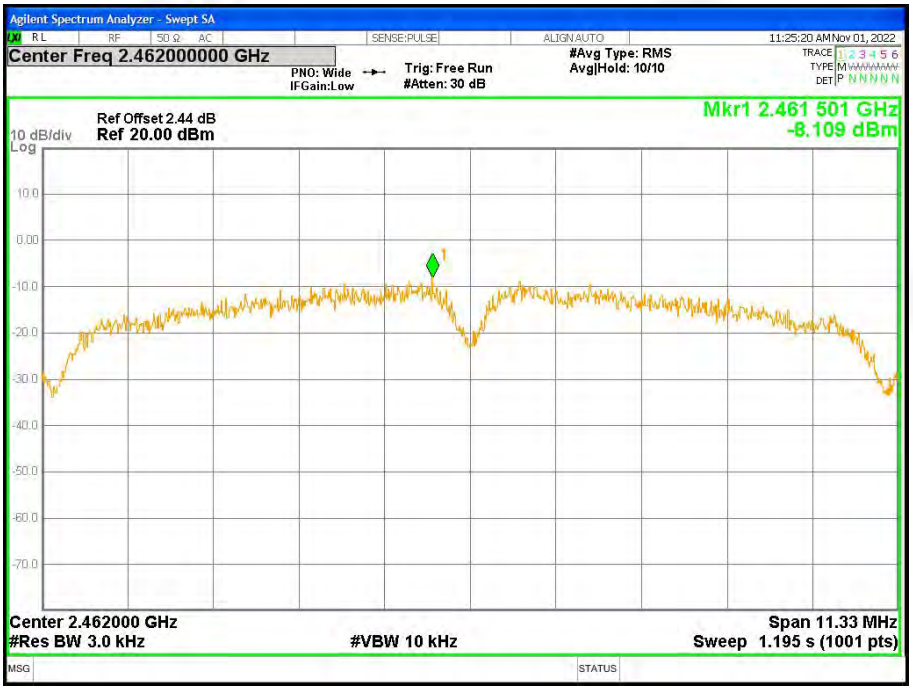
TX CH01（ANT0）



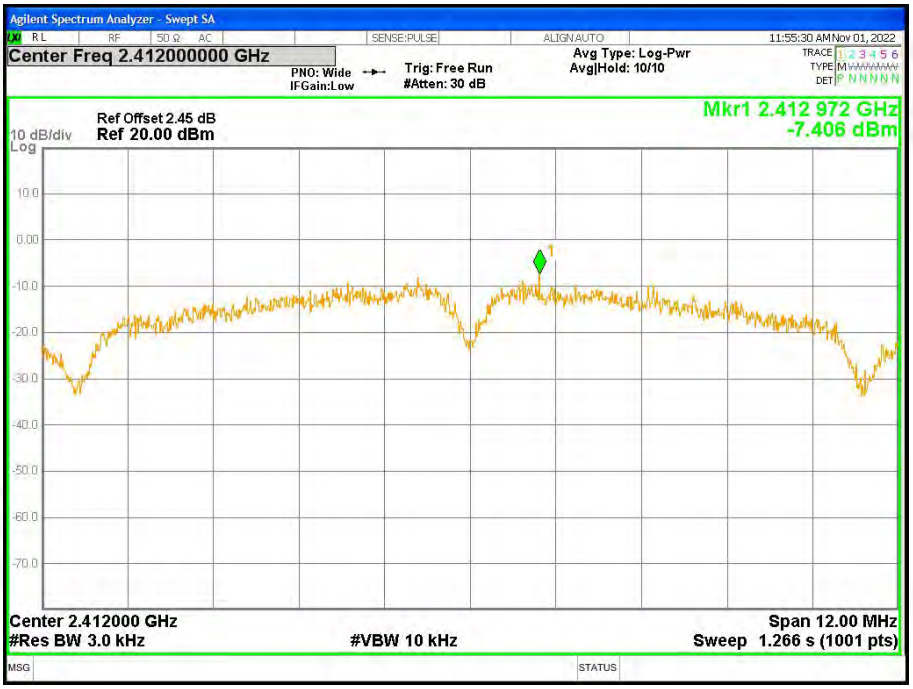
TX CH06（ANT0）



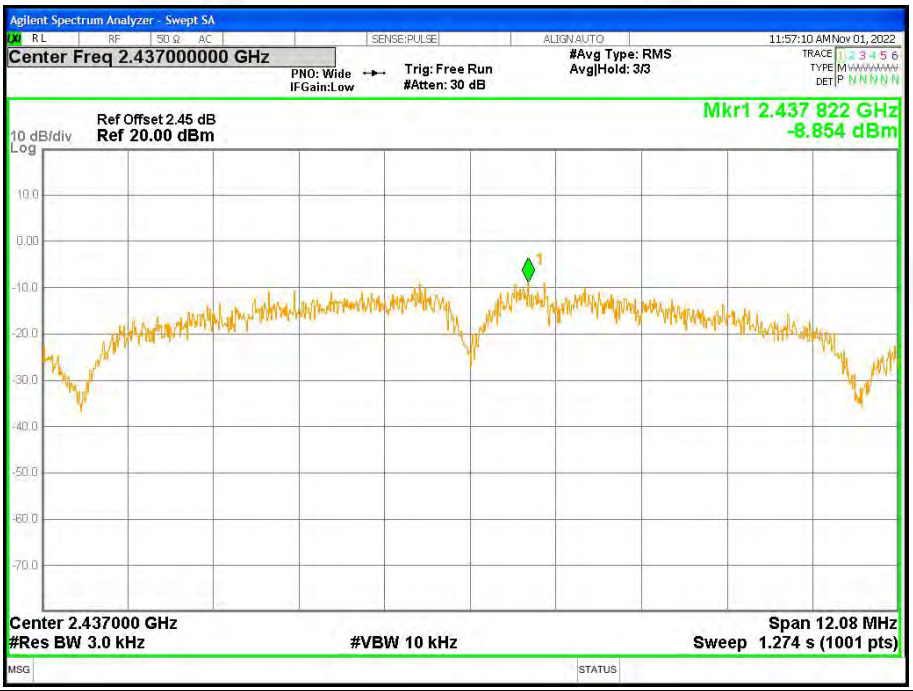
TX CH11（ANT0）



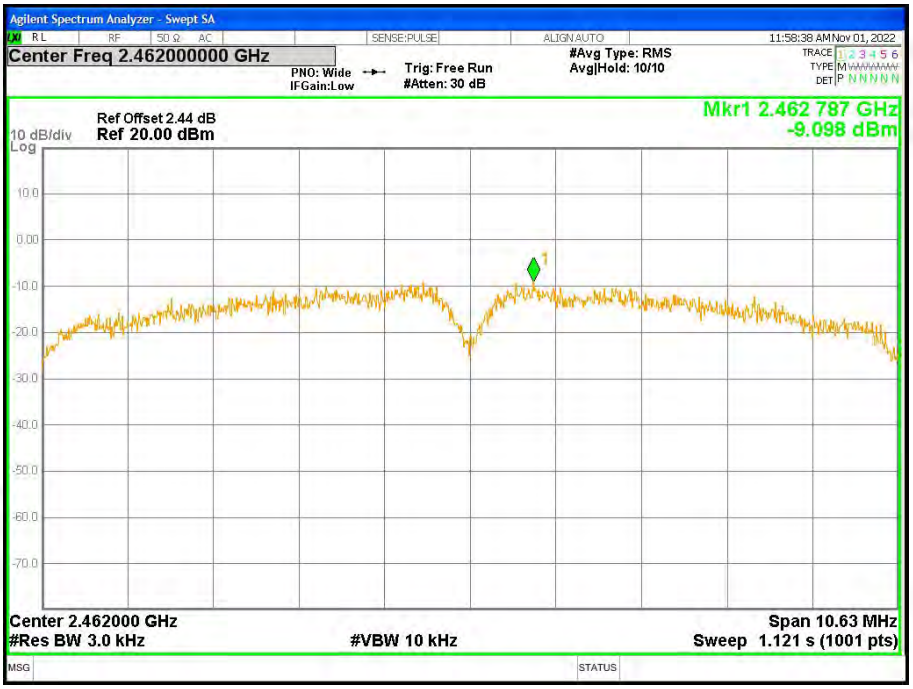
TX CH01（ANT1）



TX CH06（ANT1）



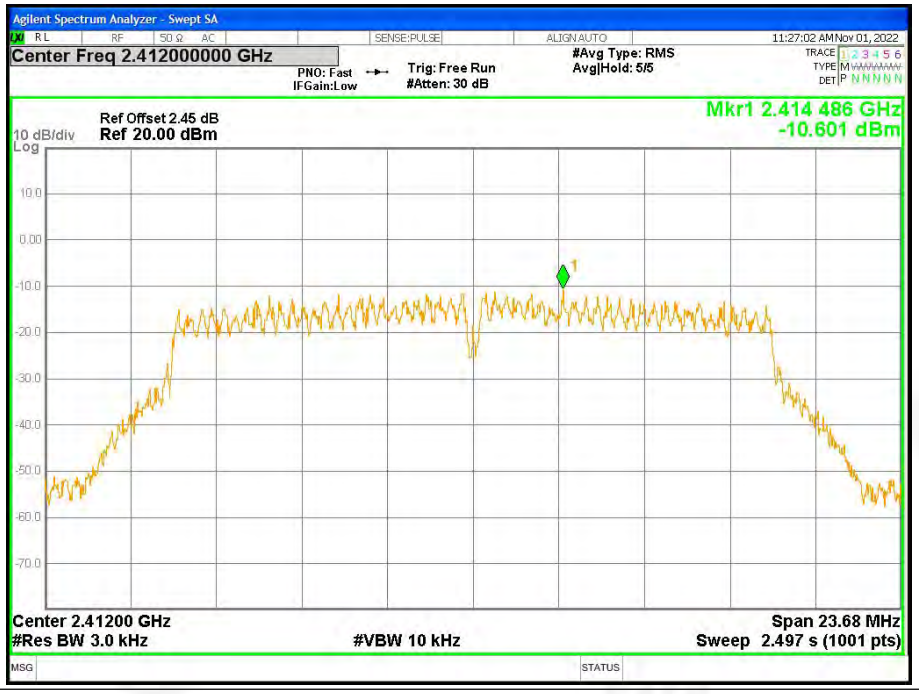
TX CH11（ANT1）


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
11:58:38 AM Nov 01, 2022
Center Freq 2.462000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 10/10
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2.44 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 2.462 787 GHz
-9.098 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.462000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 10.63 MHz
Sweep 1.121 s (1001 pts)
MSG
STATUS

Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage：	DC 15V
Test Mode ：	TX g Mode		

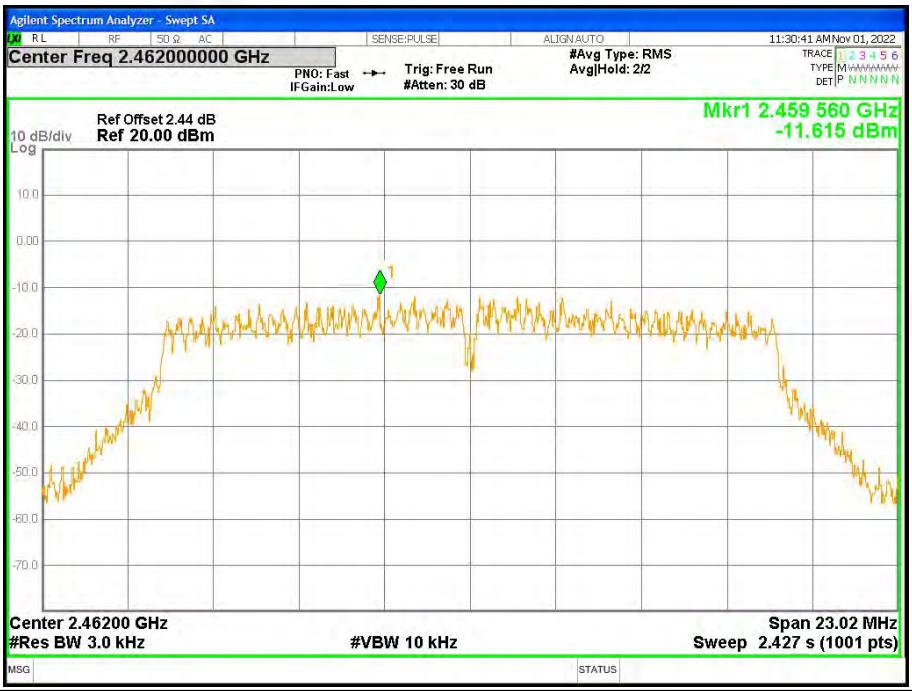
Operation mode	CH	Power Spectral Density (dBm/MHz)		
		ANT0	ANT1	Total
TX g Mode	Low	-10.6	-11.35	/
	Middle	-10.56	-11.02	/
	High	-11.61	-12.23	/

TX CH01

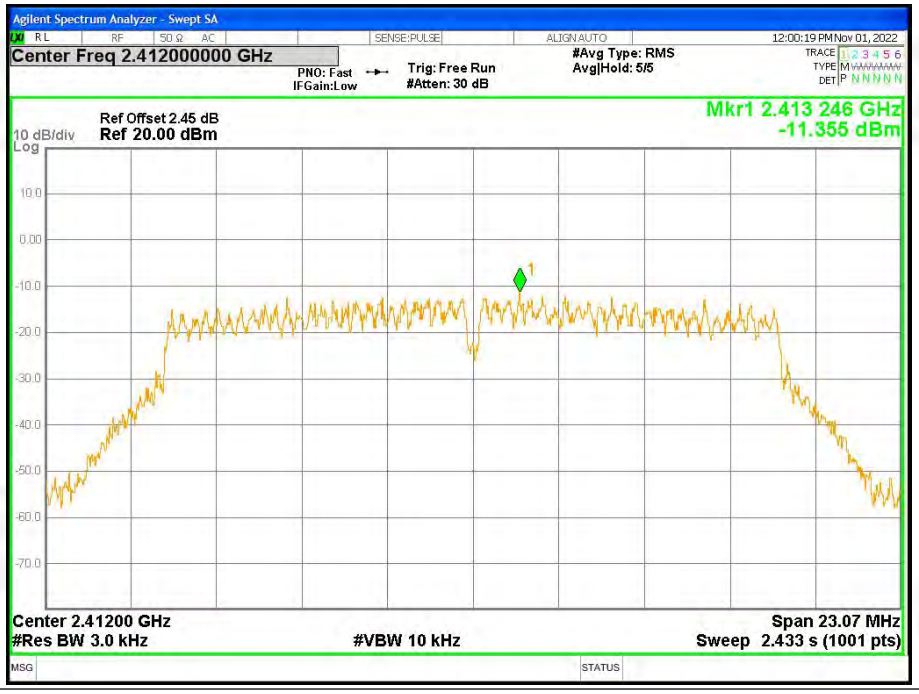


TX CH06

TX CH11

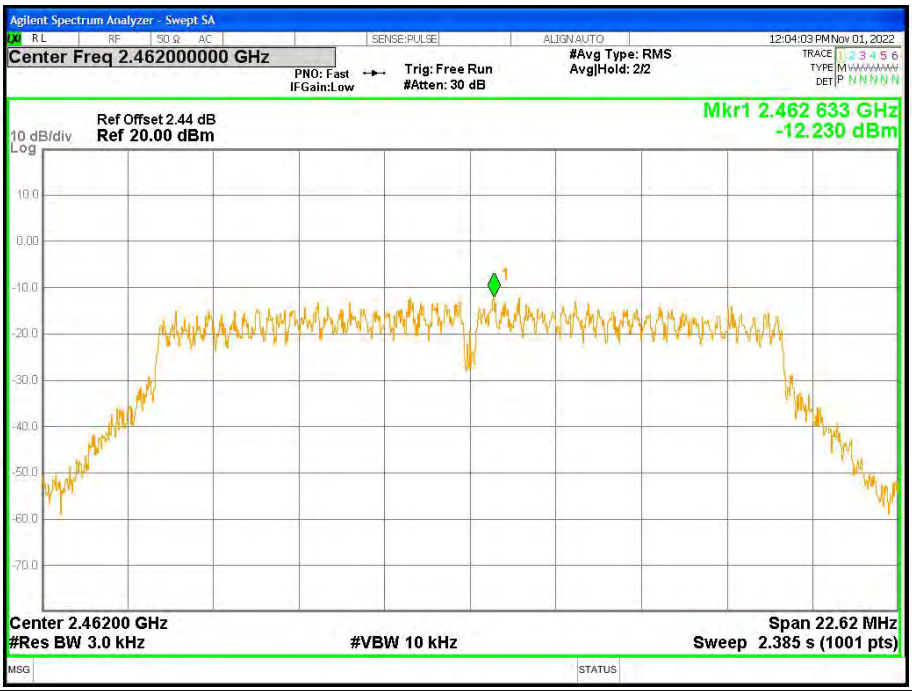


TX CH01（ANT1）



TX CH06（ANT1）

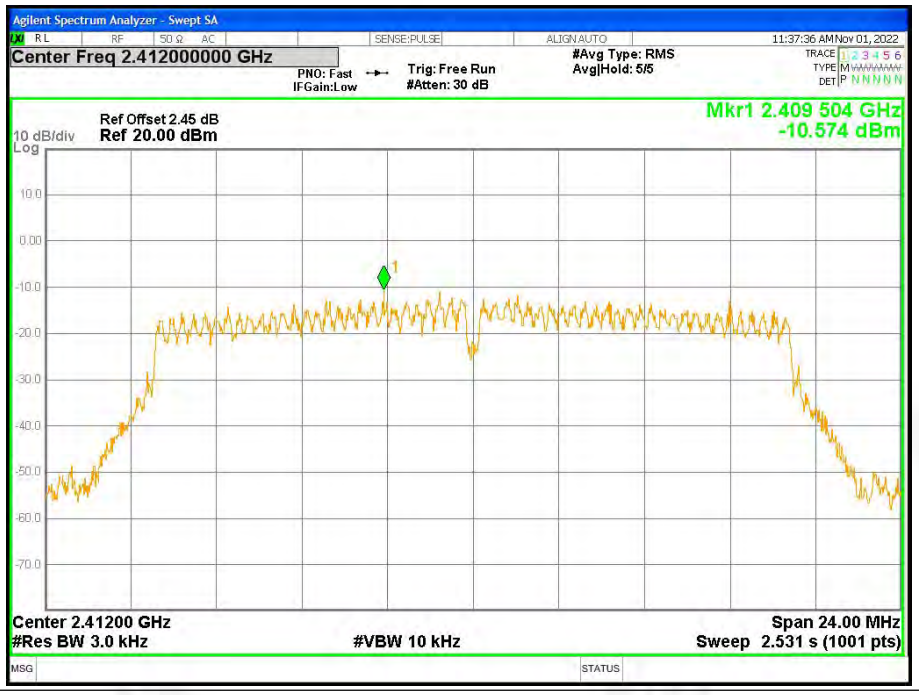
TX CH11（ANT1）


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.462000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 2/2
12:04:03 PM Nov 01, 2022
Ref Offset 2.44 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 2.462 633 GHz
-12.230 dBm
Center 2.46200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 22.62 MHz
Sweep 2.385 s (1001 pts)

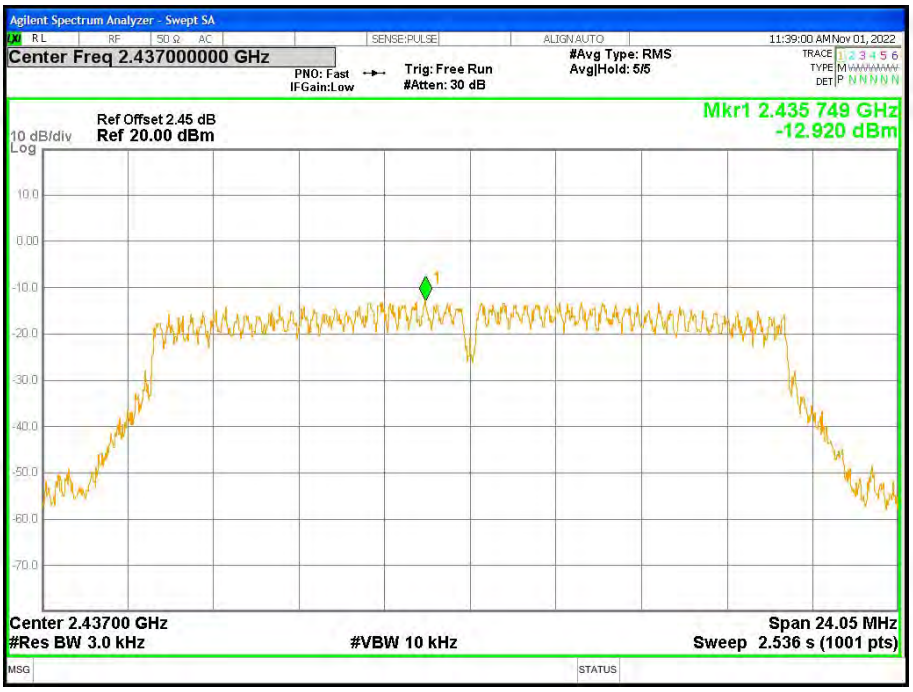
Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage：	DC 15V
Test Mode ：	TX n Mode(20M)		

Operation mode	CH	Power Spectral Density (dBm/MHz)		
		ANT0	ANT1	Total
TX n Mode(20M)	Low	-10.57	-11.17	-7.85
	Middle	-12.92	-11.13	-8.92
	High	-12.2	-11.73	-8.95

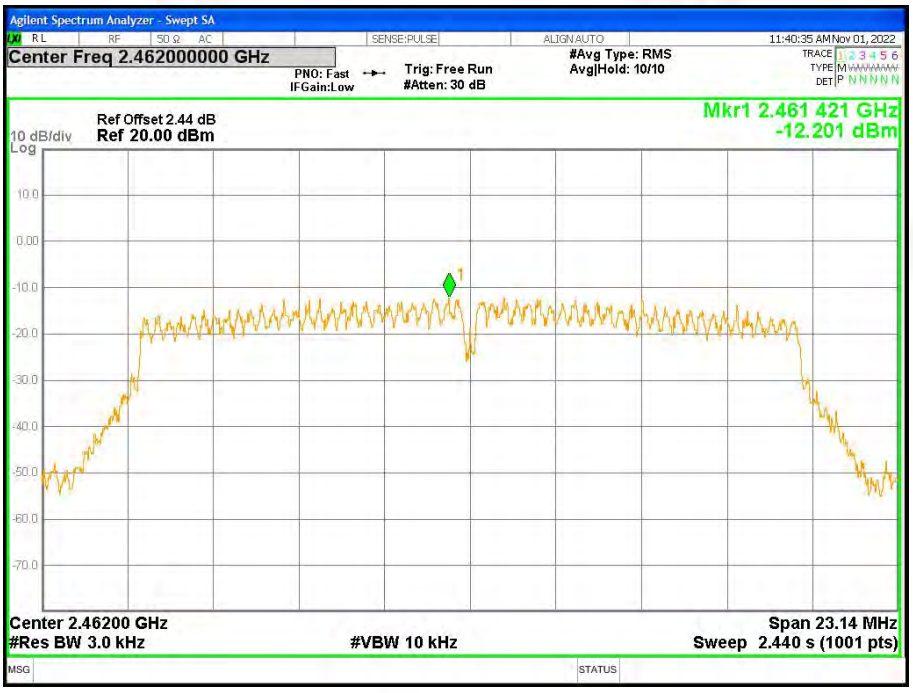
TX CH01



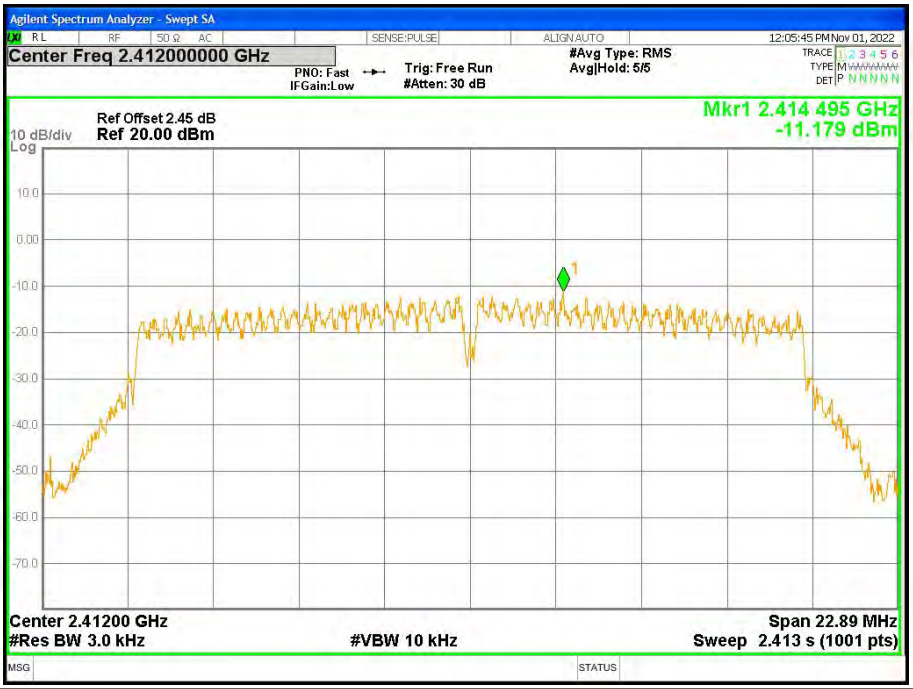
TX CH06



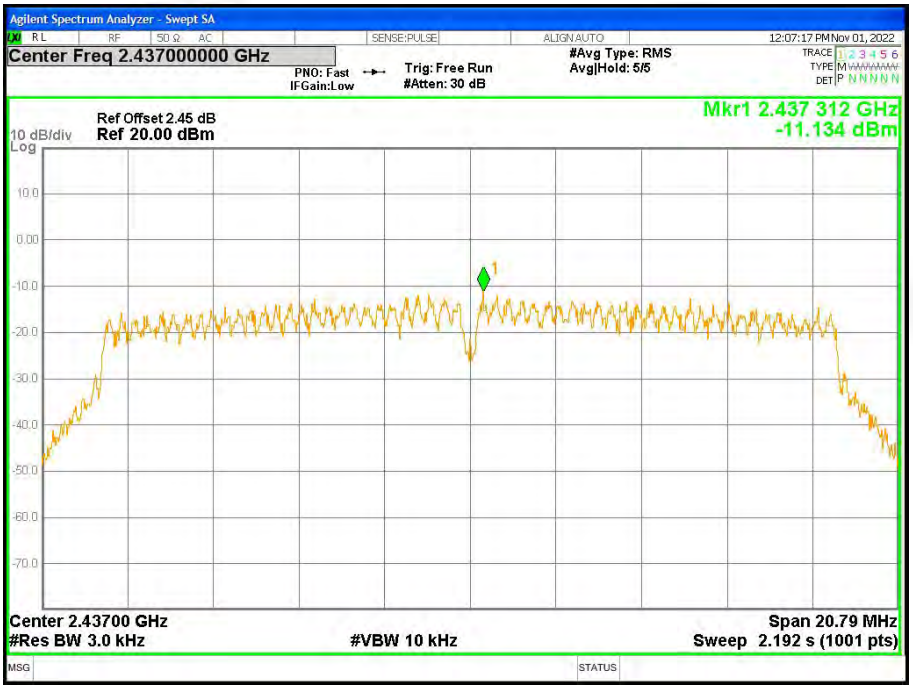
TX CH11



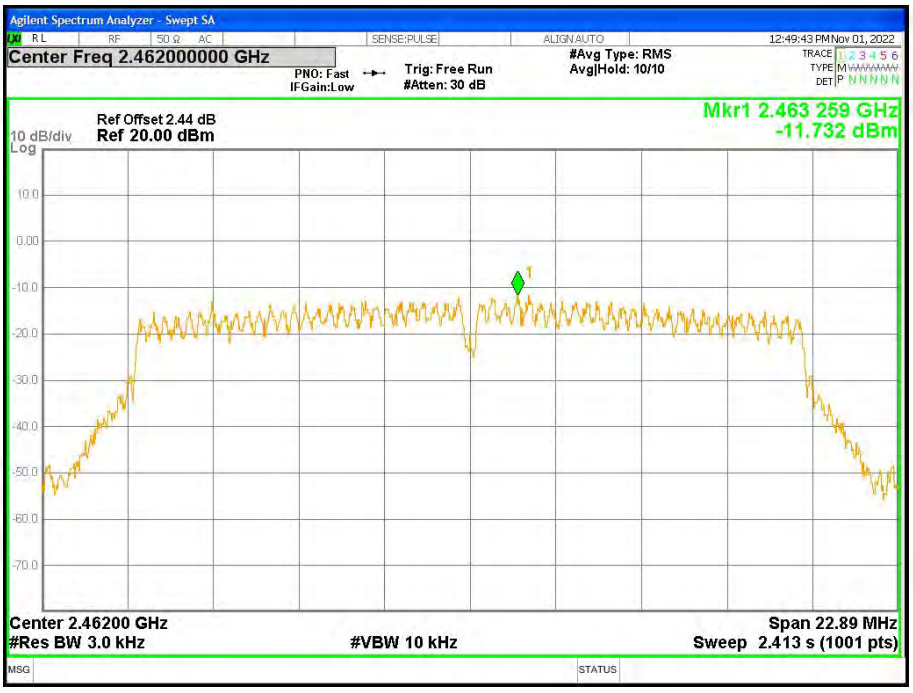
TX CH01（ANT1）



TX CH06（ANT1）



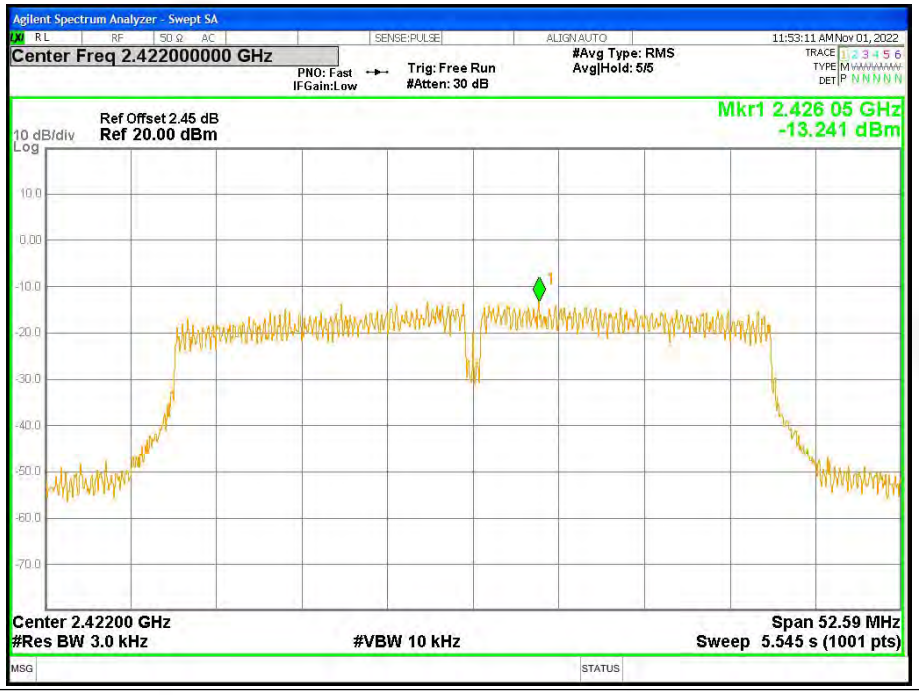
TX CH11（ANT1）


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.462000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 10/10
12:49:43 PM Nov 01, 2022
Ref Offset 2.44 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 2.463 259 GHz
-11.732 dBm
Center 2.46200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 22.89 MHz
Sweep 2.413 s (1001 pts)

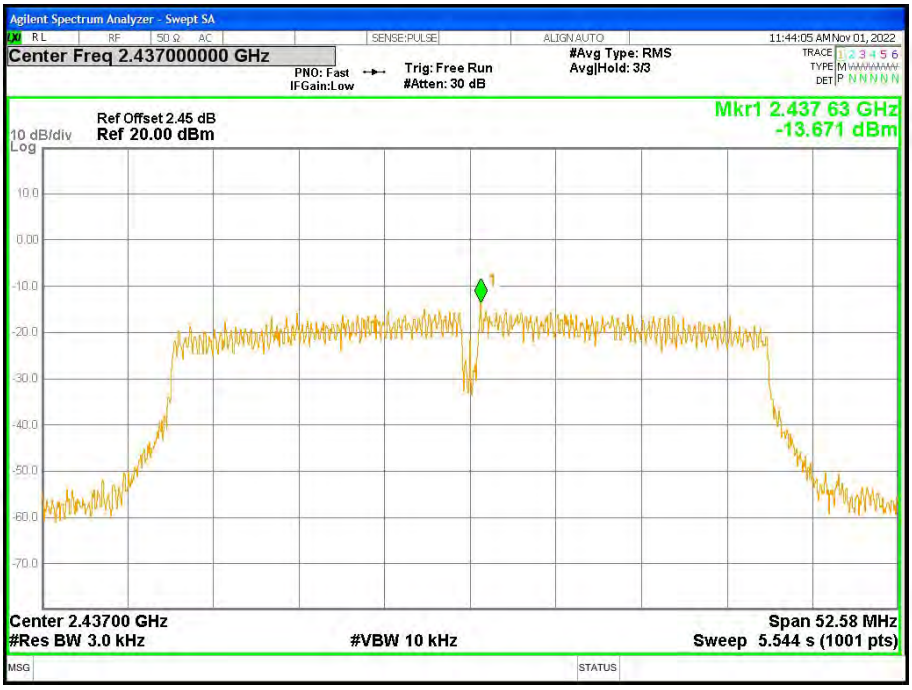
Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage：	DC 15V
Test Mode ：	TX n Mode(40M)		

Operation mode	CH	Power Spectral Density (dBm/MHz)		
		ANT0	ANT1	Total
TX n Mode(40M)	Low	-13.24	-13.03	-10.12
	Middle	-13.67	-14.29	-10.96
	High	-13.59	-12.74	-10.13

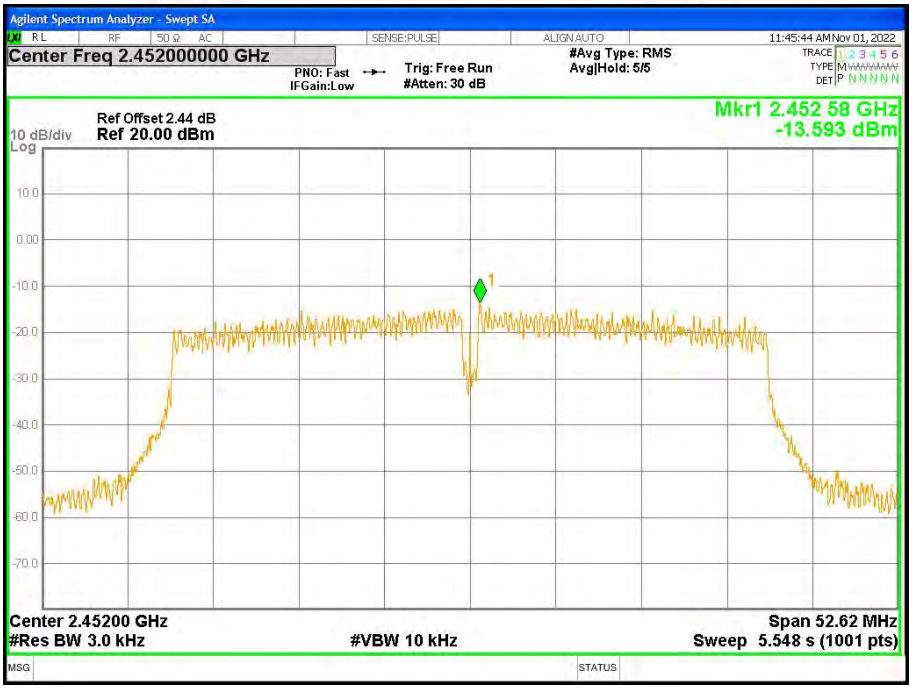
TX CH01



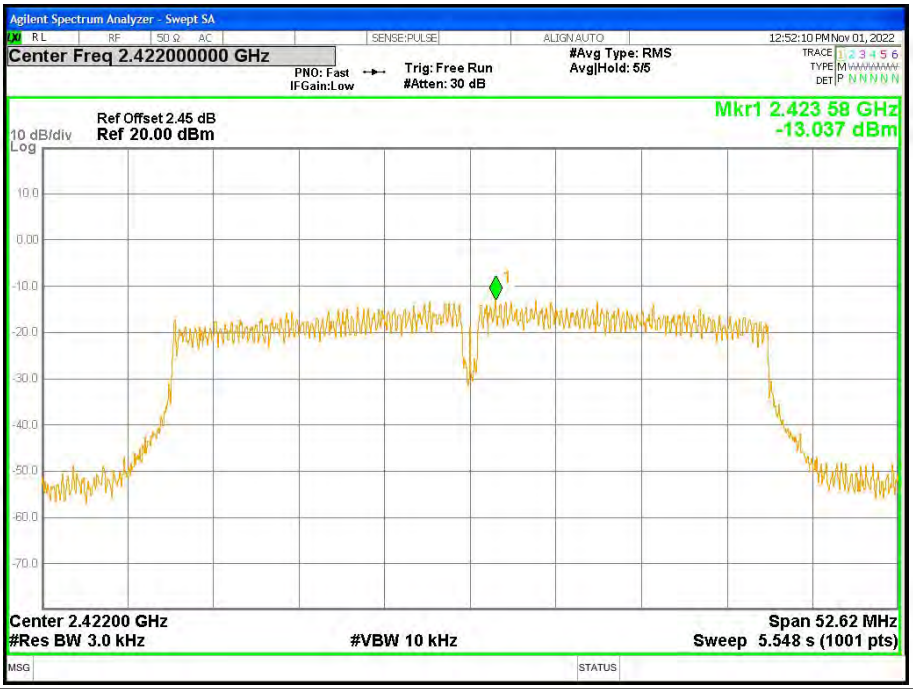
TX CH06



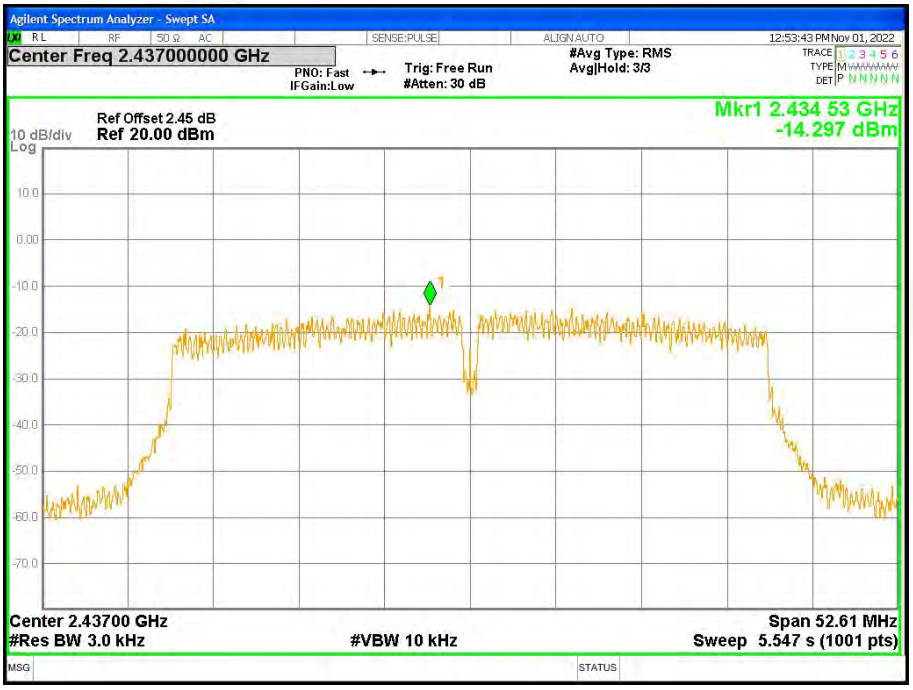
TX CH11



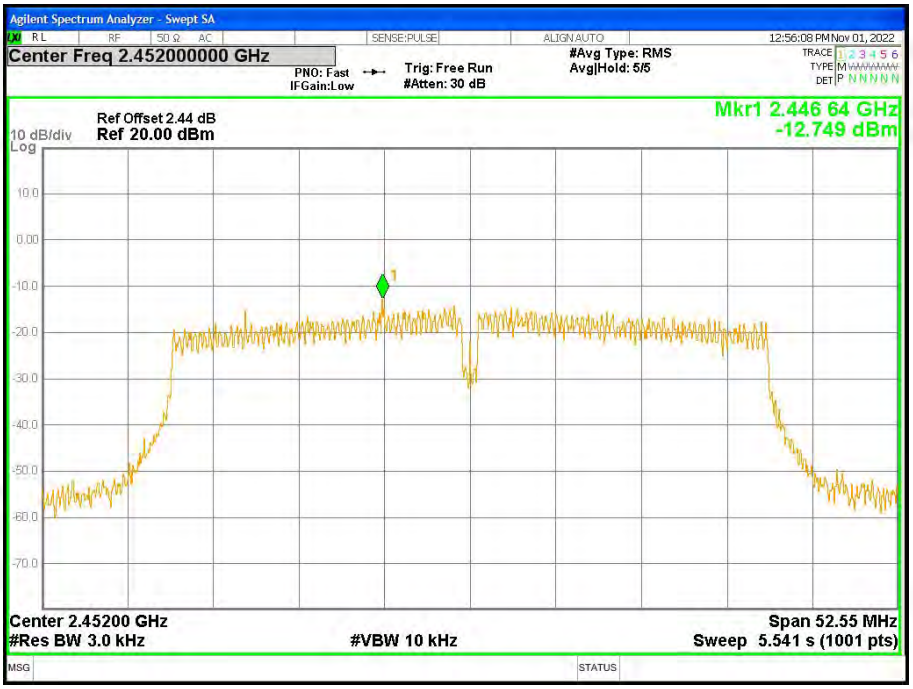
TX CH01（ANT1）



TX CH06（ANT1）



TX CH11（ANT1）


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
12:56:08 PM Nov 01, 2022
Center Freq 2.452000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 5/5
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2.44 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 2.446 64 GHz
-12.749 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.45200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 52.55 MHz
Sweep 5.541 s (1001 pts)
MSG
STATUS

7. CHANNEL BANDWIDTH& 99% OCCUPY BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)&RSS-247 Section 5.2(a)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02 and RSS-Gen

7.1 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

7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 xRBW.
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 6 dB relative to the maximum level measured in the fundamental emission.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

7.5 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.

7.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 15V
Test Mode :	TX b Mode		

Test CH	-6dB Occupy Bandwidth (MHz)					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT 40)	Limit(KHz)	Result
Lowest	7.587	15.79	16.00	35.06	>500	Pass
Middle	7.573	14.98	16.04	35.05		
Highest	7.554	15.35	15.43	35.08		

Test CH	99% Occupy Bandwidth (MHz)					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT 40)	Limit(KHz)	Result
Lowest	12.836	16.412	17.571	36.021	>500	Pass
Middle	12.772	16.432	17.562	35.953		
Highest	12.771	16.404	17.53	36.015		

Test plot as follows:

802.11b

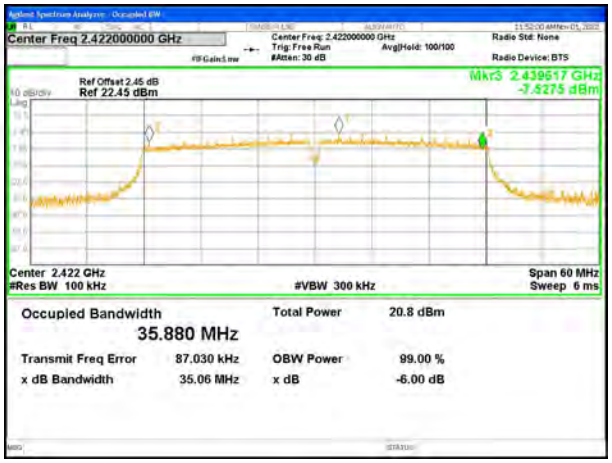
802.11g

Middle channel

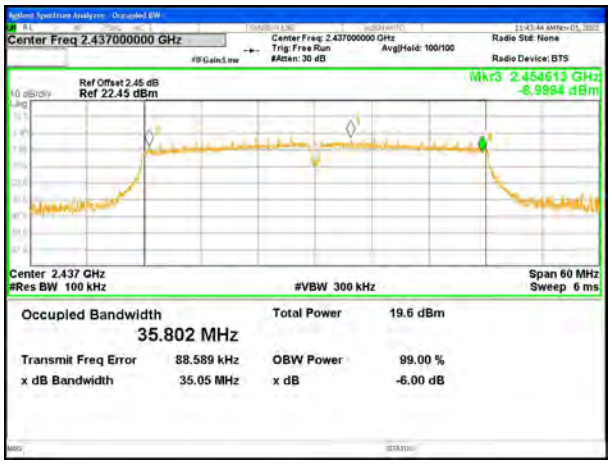
Highest channel

802.11n20 802.11n40

Lowest channel



Middle channel



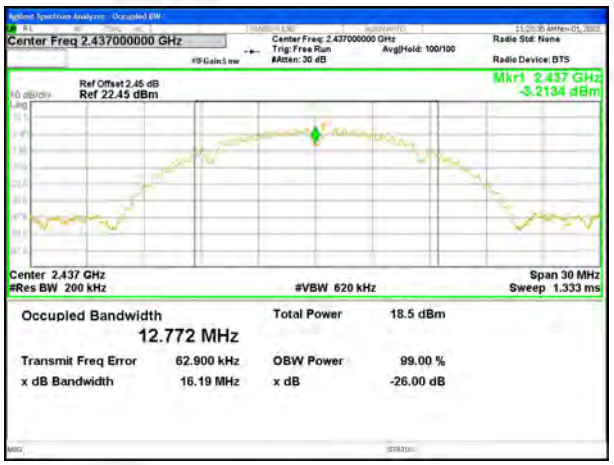
Highest channel

802.11b

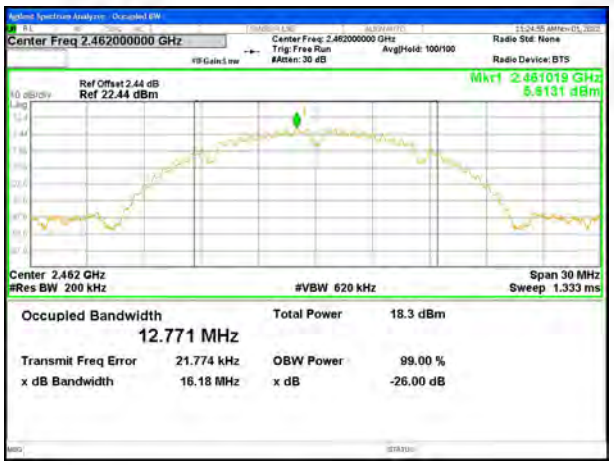
802.11g

Lowest channel

Middle channel



Highest channel

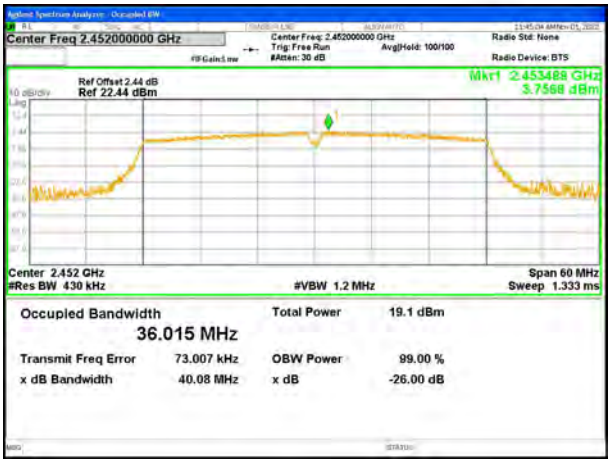


802.11n20 802.11n40

Lowest channel

Middle channel

Highest channel



Antenna 1

Test CH	-6dB Occupy Bandwidth (MHz)					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT 40)	Limit(KHz)	Result
Lowest	8.00	15.39	15.26	35.08	>500	Pass
Middle	8.05	15.45	13.86	35.07		
Highest	7.08	15.08	15.26	35.04		

Test CH	99% Occupy Bandwidth (MHz)					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT 40)	Limit(KHz)	Result
Lowest	12.825	16.452	17.572	35.992	>500	Pass
Middle	12.754	16.425	17.561	35.946		
Highest	12.764	16.438	17.536	36.005		

Test plot as follows:

802.11b

Lowest channel

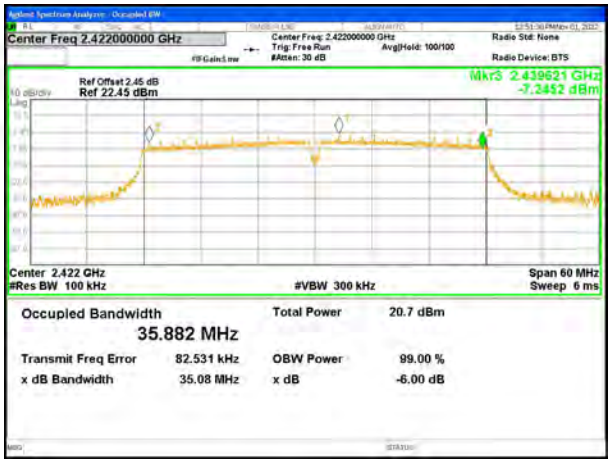
802.11g

Middle channel

Highest channel

802.11n20 802.11n40

Lowest channel

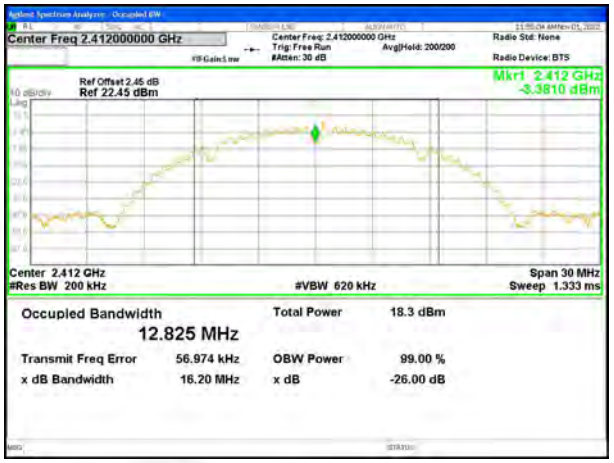


Middle channel

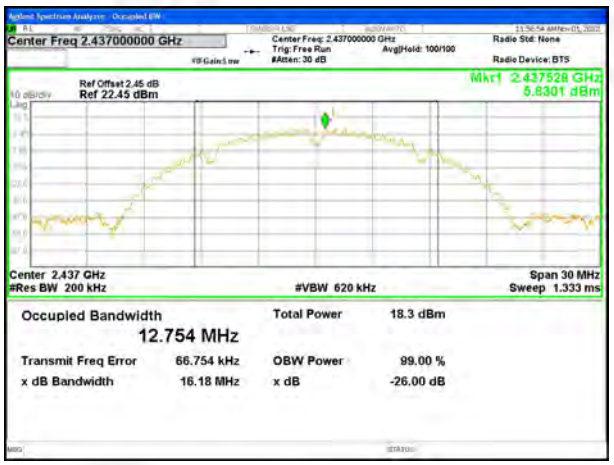
Highest channel

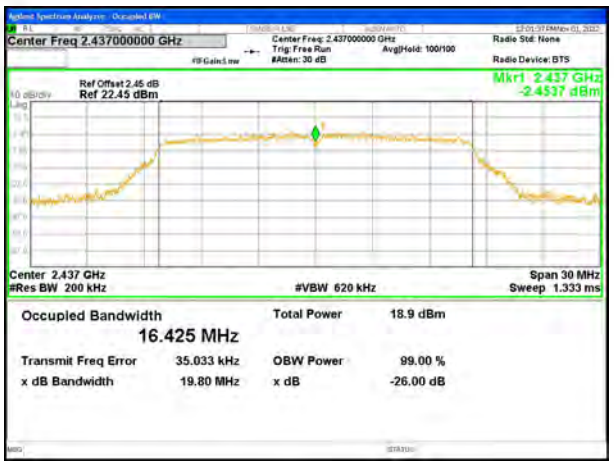
802.11b 802.11g

Lowest channel

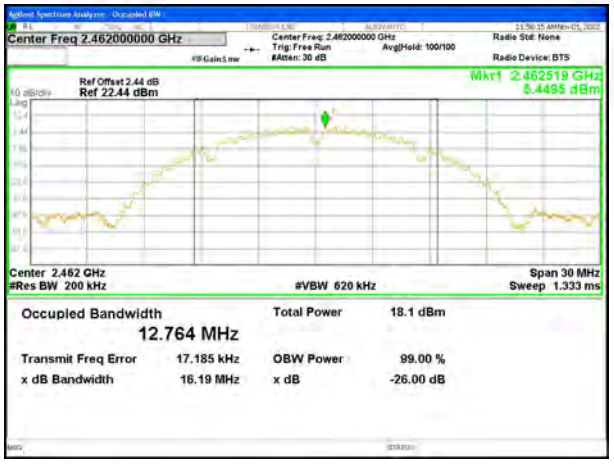


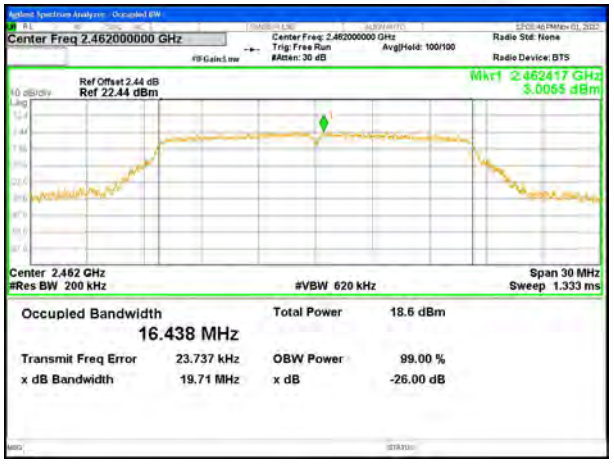
Middle channel





Highest channel



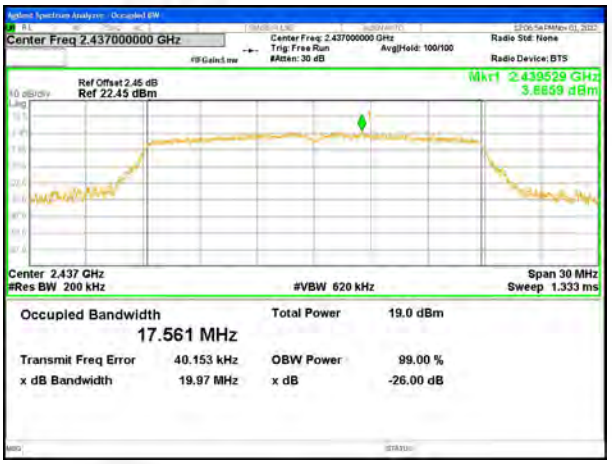


802.11n20

802.11n40

Lowest channel

Middle channel



Highest channel

8.PEAK OUTPUT POWER TEST&EQUIVALENT ISOTROPICALLY RADIATED POWER (E.I.R.P.)

Test Requirement:	FCC Part15 C Section 15.247 (b)(3) RSS-247 Section 5.4(d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02 and RSS-Gen KDB 662911 D01 Multiple Transmitter Output v02r01

8.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) RSS-247 Section 5.4(d)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS
RSS-247 Section 5.4(d)	equivalent isotropically radiated power	4watt	2400-2483.5	PASS

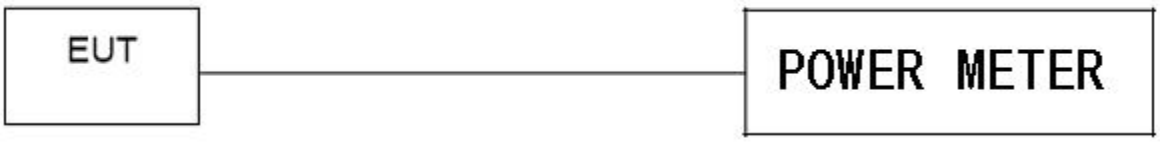
8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 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.

8.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 15V

Operation mode	CH	Peak Output Power (dBm)			e.i.r.p. (W)
		ANT0	ANT1	Total	
802.11b	Low	13.85	13.45	/	0.038
	Middle	13.7	13.47	/	0.037
	High	13.35	13.32	/	0.034
802.11g	Low	13.73	13.42	/	0.037
	Middle	13.57	13.34	/	0.036
	High	13.38	13.12	/	0.035
802.11n(HT20)	Low	13.33	13.36	16.36	0.137
	Middle	13.22	13.25	16.25	0.134
	High	13.07	13.05	16.07	0.128
802.11n(HT40)	Low	14.76	13.36	17.13	0.164
	Middle	13.46	13.25	16.37	0.137
	High	13.53	13.05	16.31	0.136

Directional Gain Calculations for In-Band Measurements
a) Basic methodology with N_{ANT} transmit antennas, each with the same directional gain G_{ANT} dBi, being driven by N_{ANT} transmitter outputs of equal power. Directional gain is to be computed as follows:
(i) If any transmit signals are correlated with each other,
Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi
(ii) If all transmit signals are completely uncorrelated with each other,
Directional gain = G_{ANT}
802.11b/g is SISO(transmit signals are completely uncorrelated), 802.11n is MIMO(transmit signals are correlated)

Note: EIRP=Peak Output Power+Directional gain

9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d) RSS-247 Section 5.5
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02 & RSS-Gen KDB 662911 D01 Multiple Transmitter Output v02r01

Note: For the 802.11n20/n40, all test plots meet the max PSD down 23.01dB requirement

9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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 in15.209(a).

9.2 TEST PROCEDURE

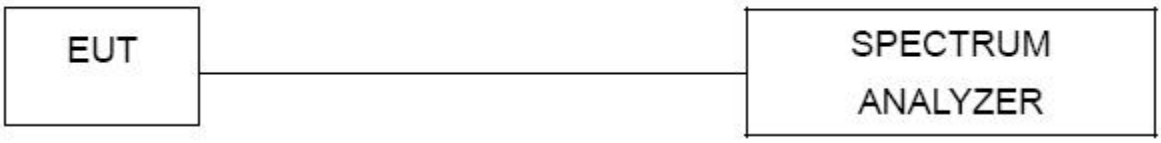
Using the following spectrum analyzer setting:

A) Set the RBW = 100KHz.
B) Set the VBW = 300KHz.
C) Sweep time = auto couple.
D) Detector function = peak.
E) Trace mode = max hold.
F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

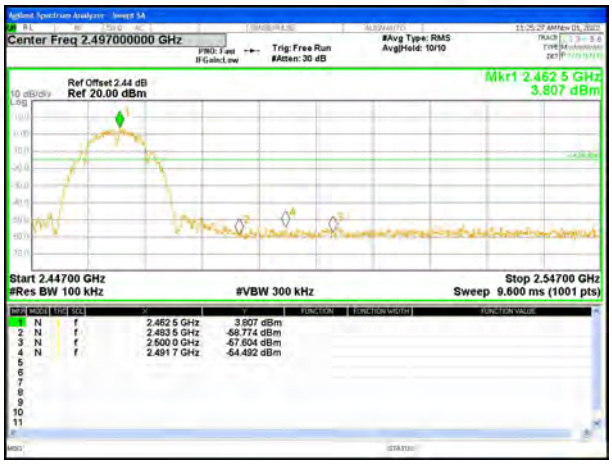
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS

Test plot as follows: Antenna 0

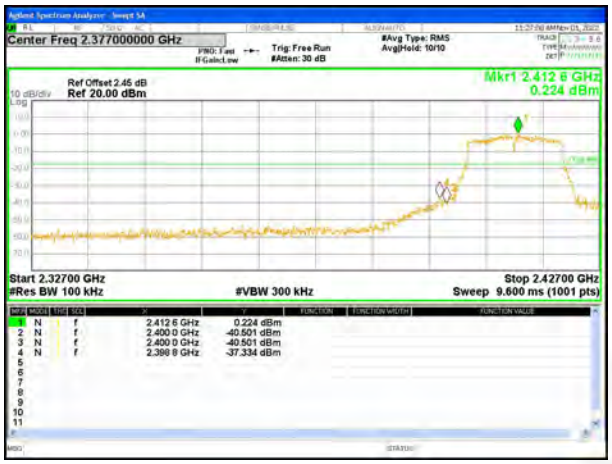
Test mode:802.11b

Lowest channel



Highest channel

Test mode:802.11g



Lowest channel

Highest channel

Test mode:802.11n(HT20)

Lowest channel

Highest channel

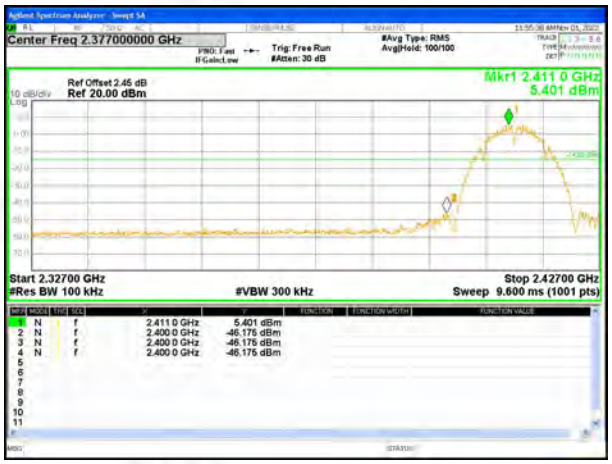
Test mode:802.11n(HT40)

Lowest channel

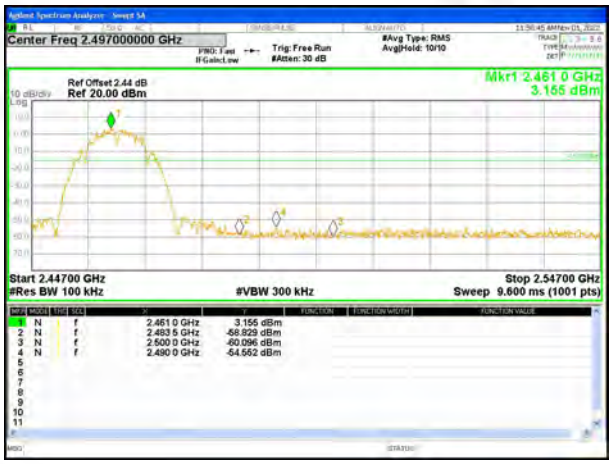
Highest channel

Test plot as follows: Antenna 1

Test mode:802.11b

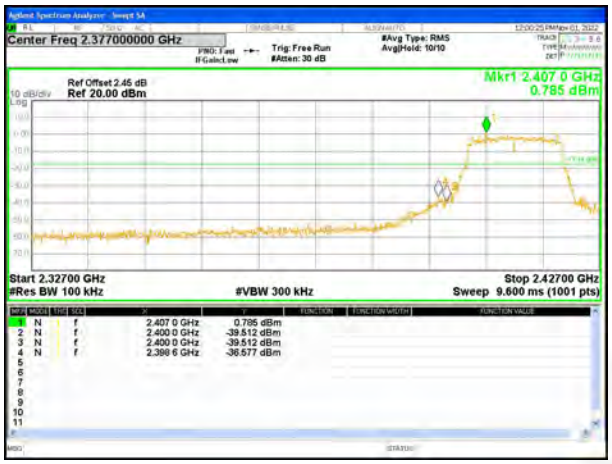


Lowest channel



Highest channel

Test mode:802.11g

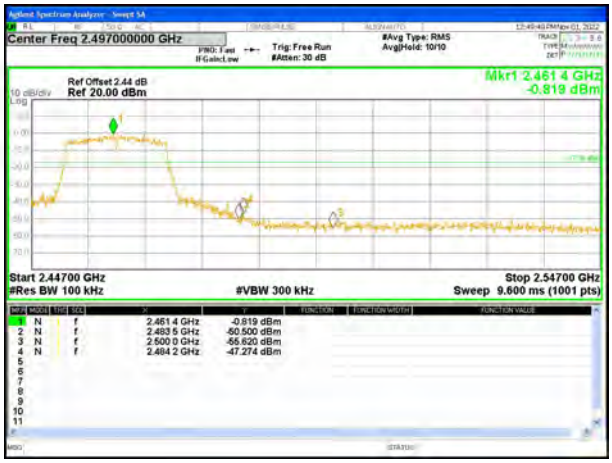


Lowest channel

Highest channel

Test mode:802.11n(HT20)

Lowest channel



Highest channel

Test mode:802.11n(HT40)

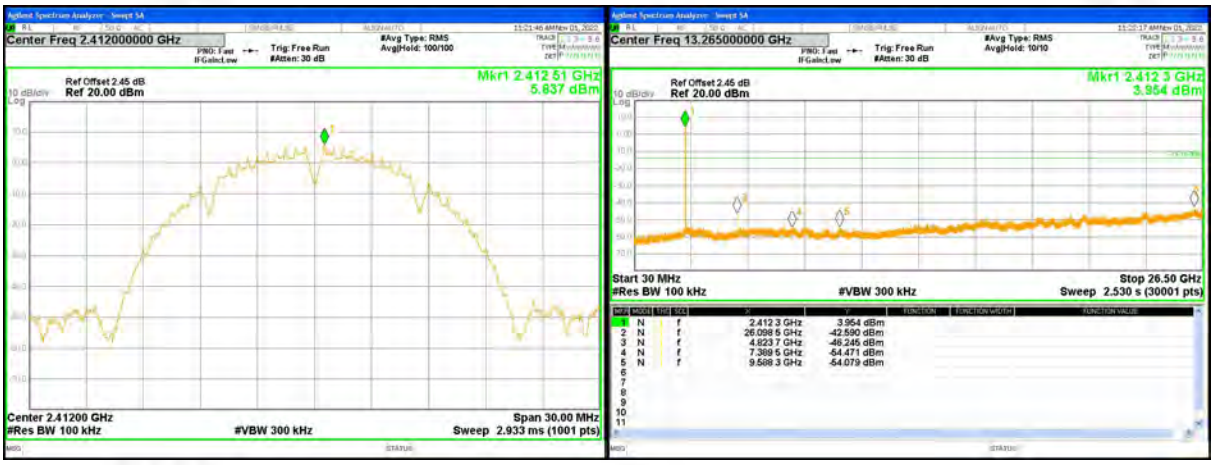
Lowest channel

Highest channel

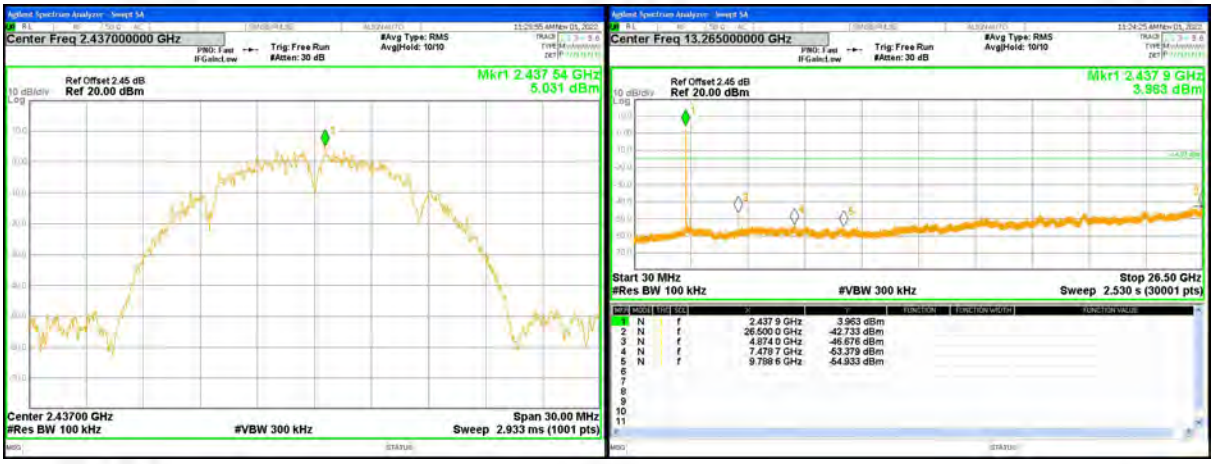
Test plot as follows:

802.11b

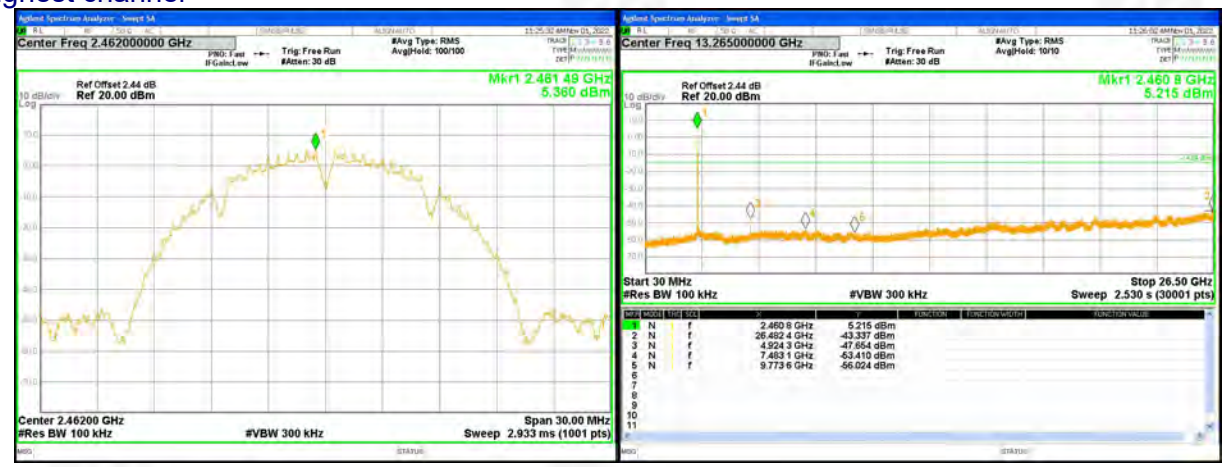
Lowest channel



Middle channel

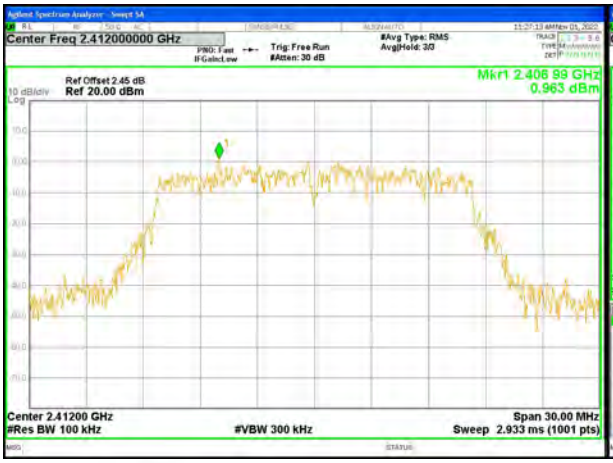


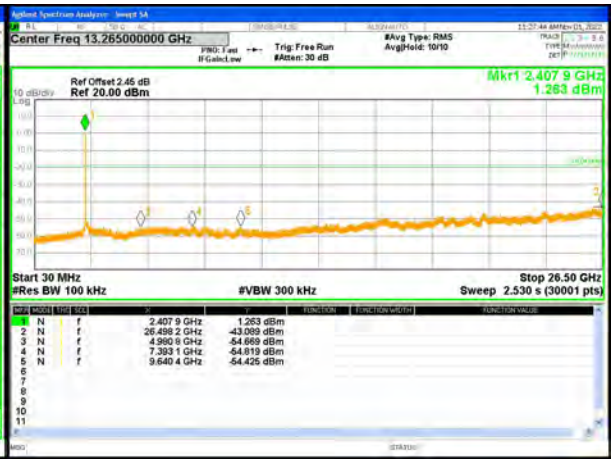
Highest channel



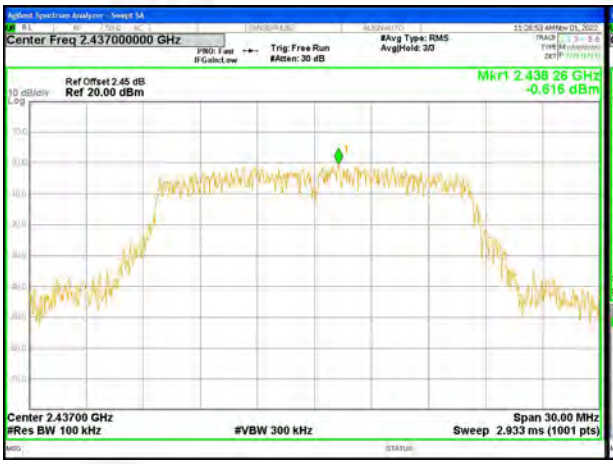
802.11g

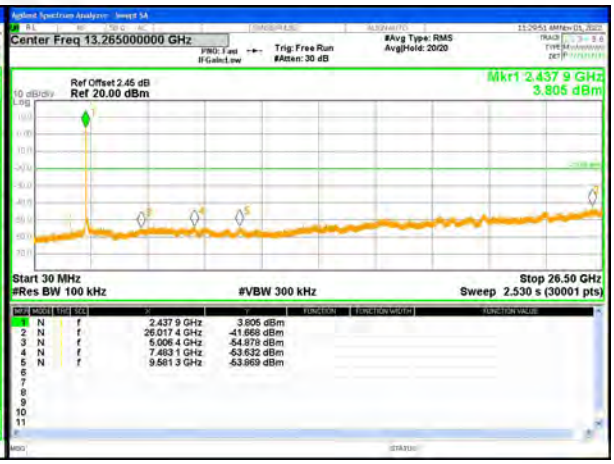
Lowest channel



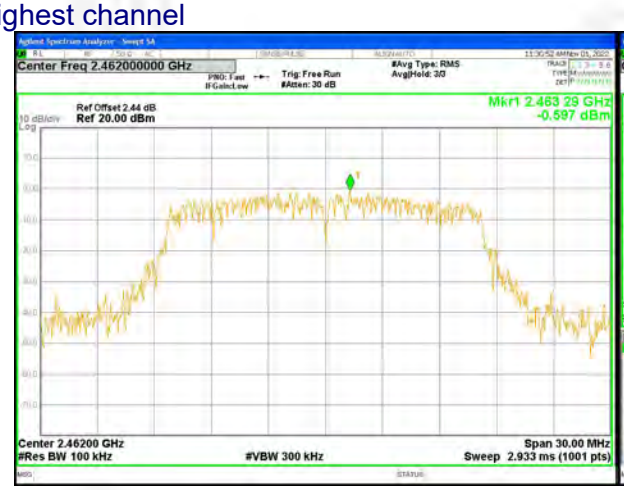


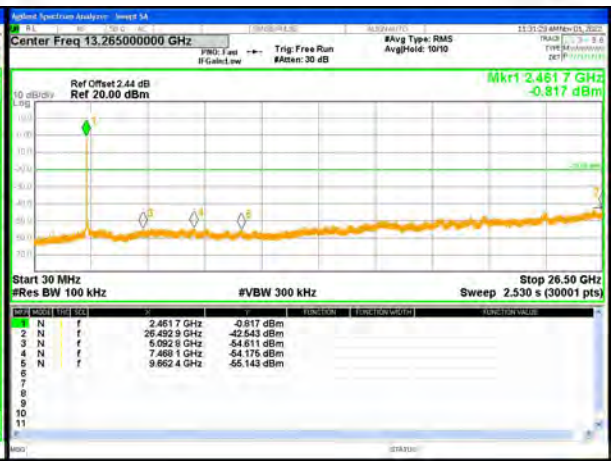
Middle channel





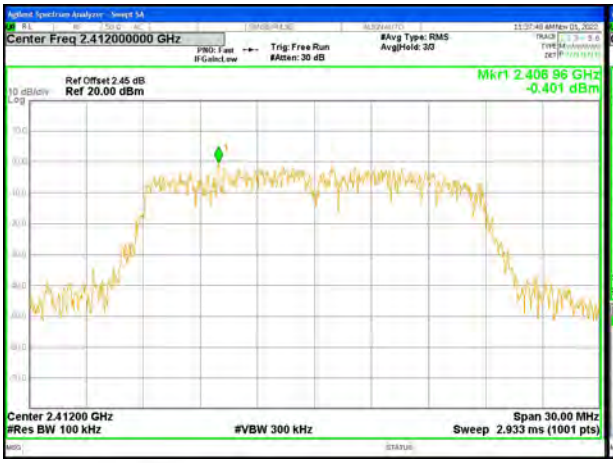
Highest channel

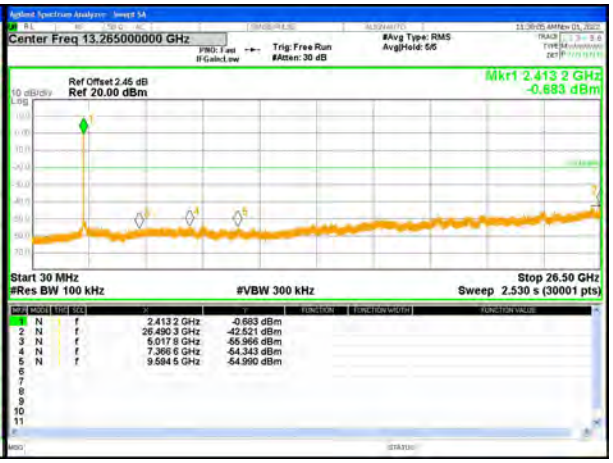




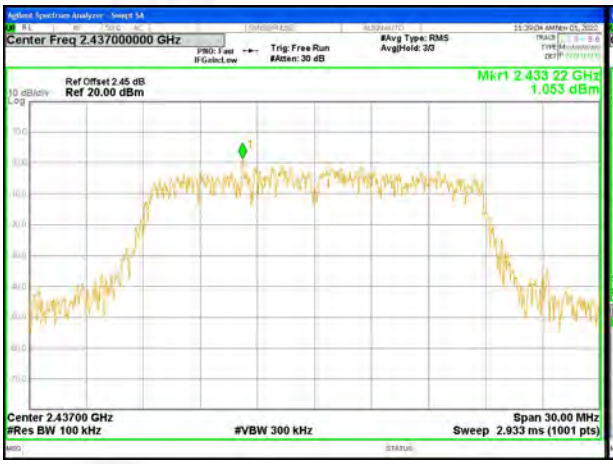
802.11n(HT20)

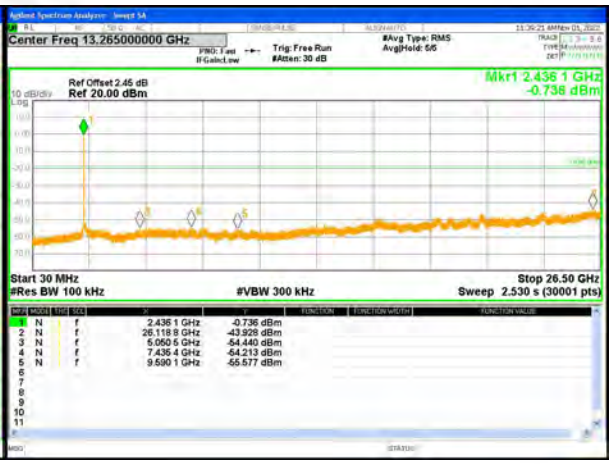
Lowest channel



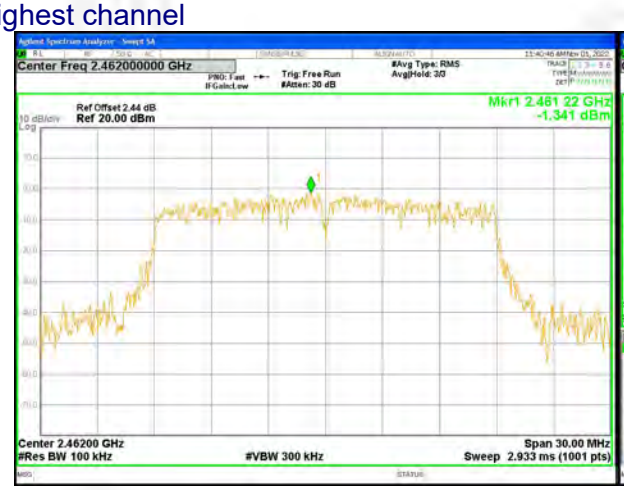


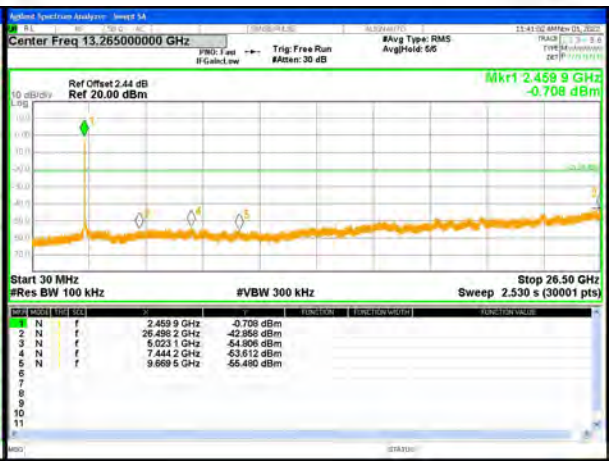
Middle channel





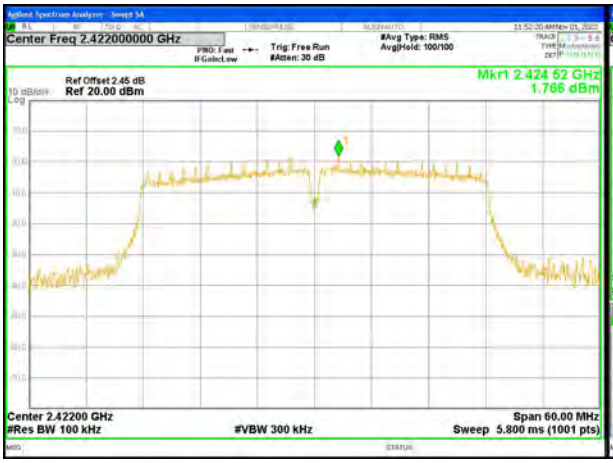
Highest channel

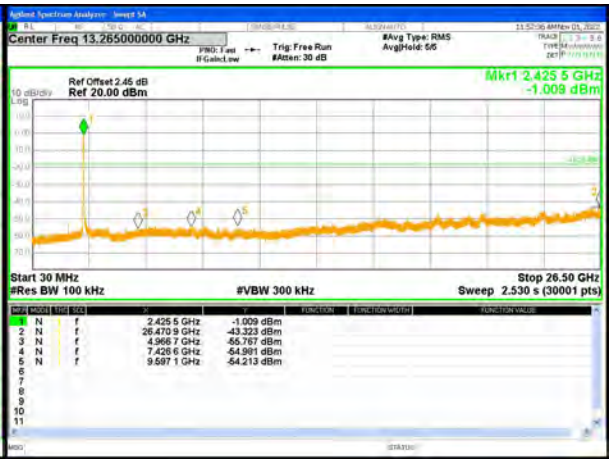




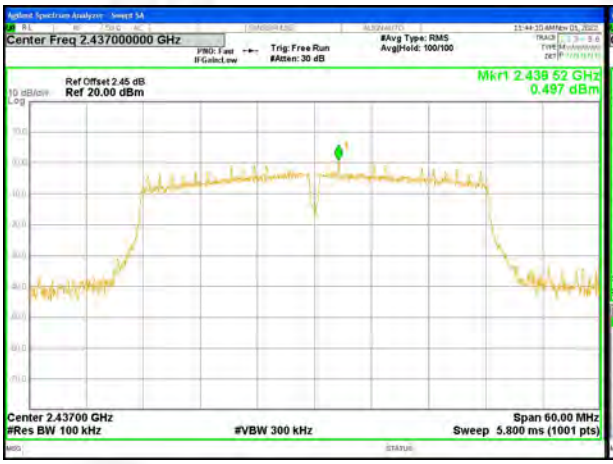
802.11n(HT40)

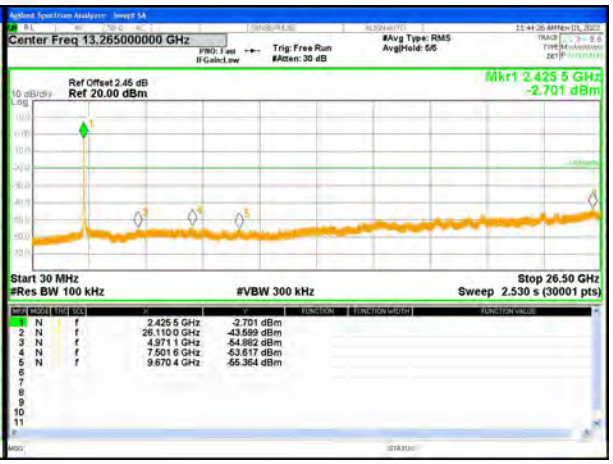
Lowest channel



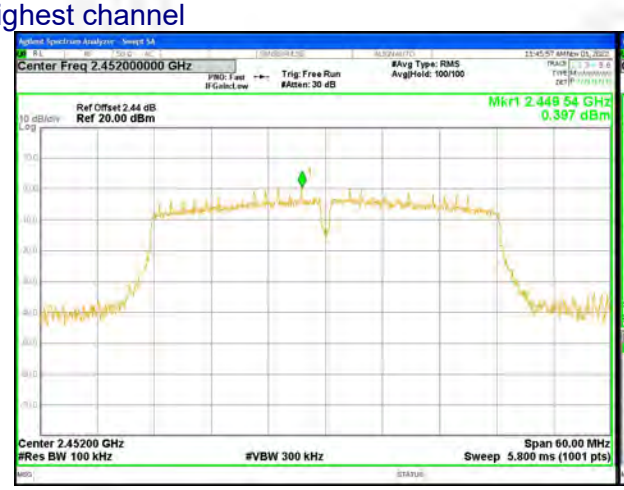


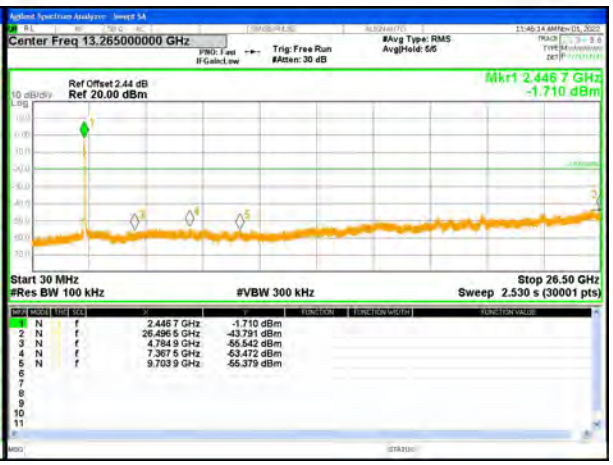
Middle channel





Highest channel

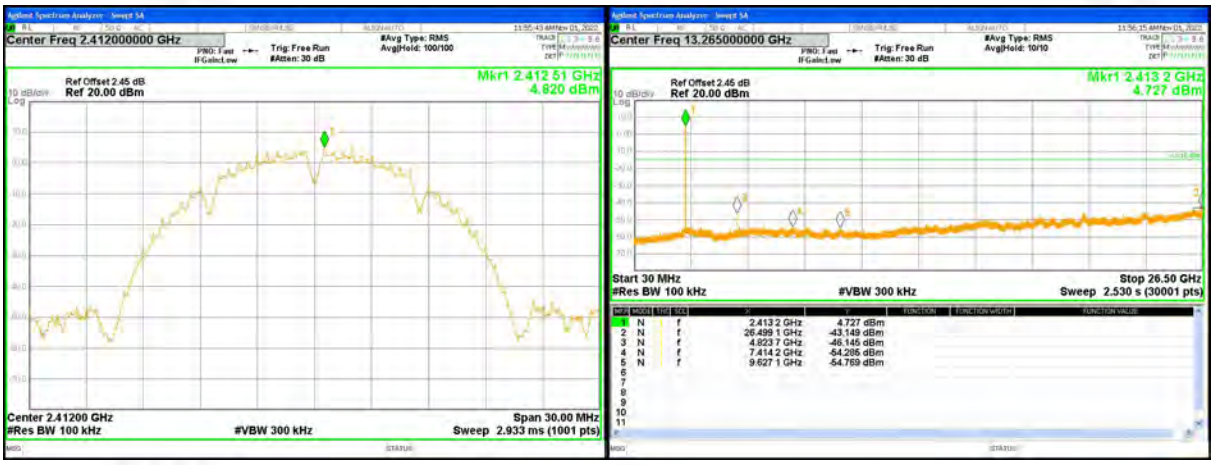




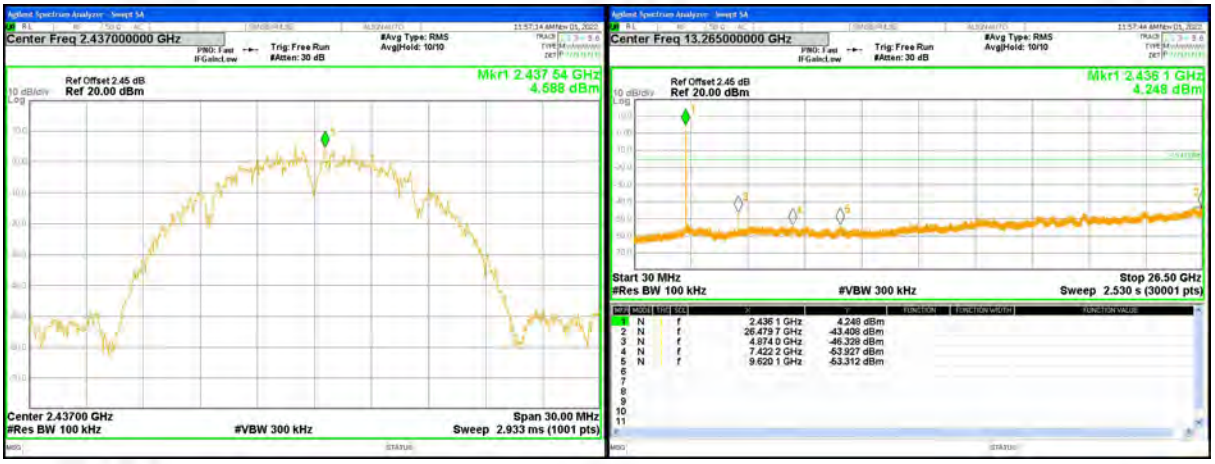
Test plot as follows: Antenna 1

802.11b

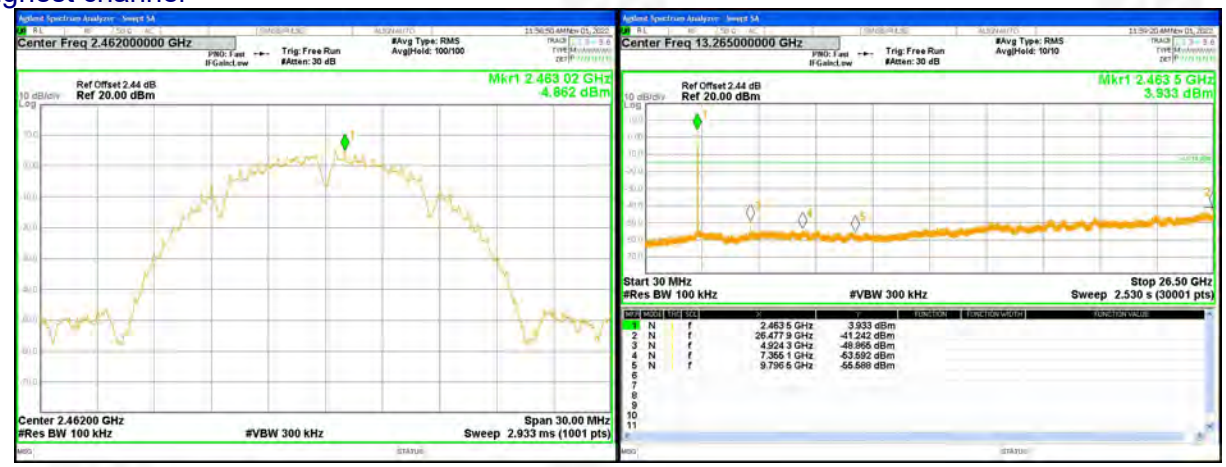
Lowest channel



Middle channel

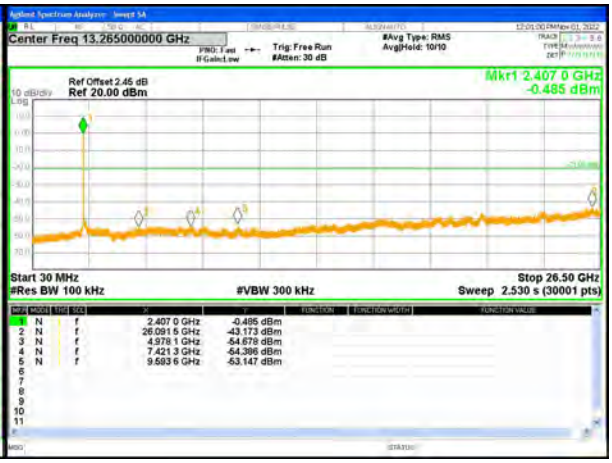


Highest channel

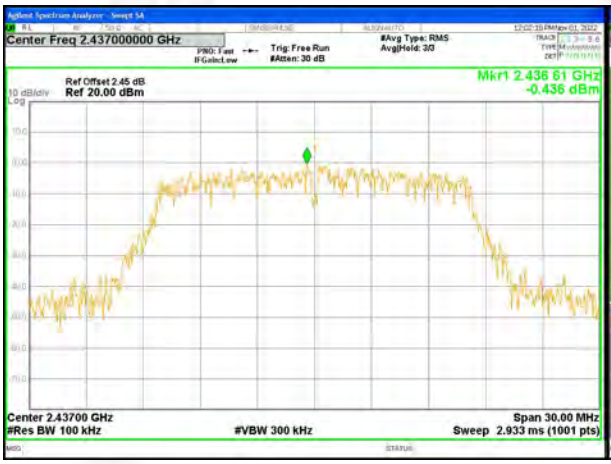


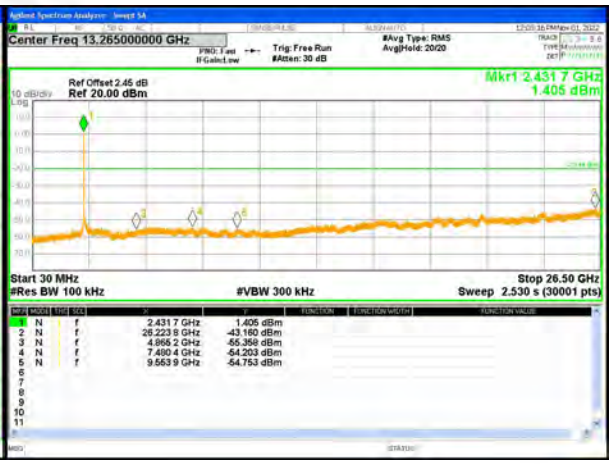
802.11g

Lowest channel

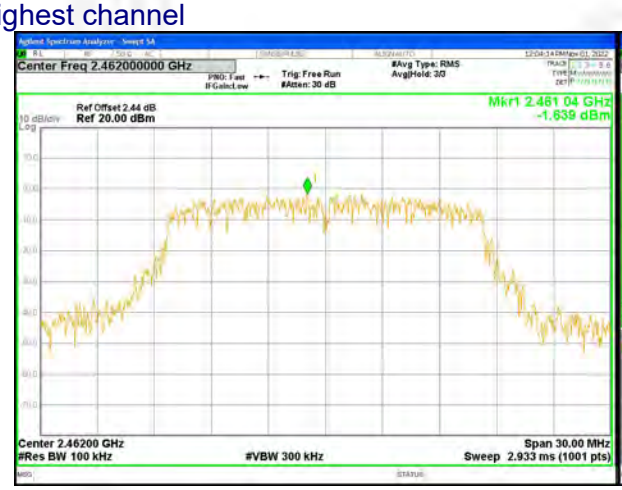


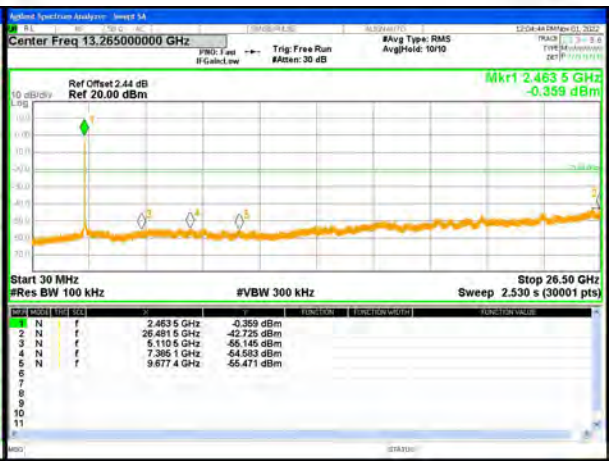
Middle channel





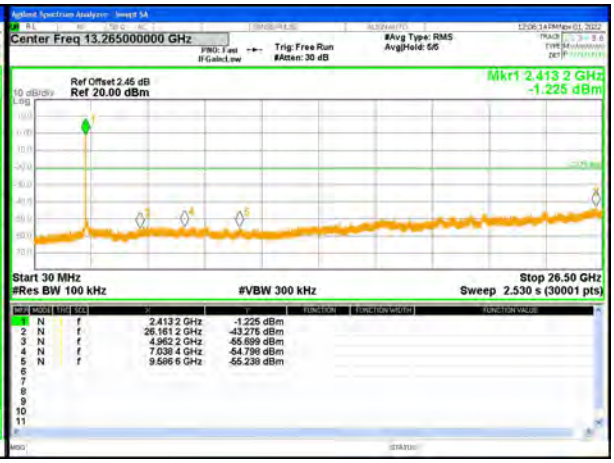
Highest channel



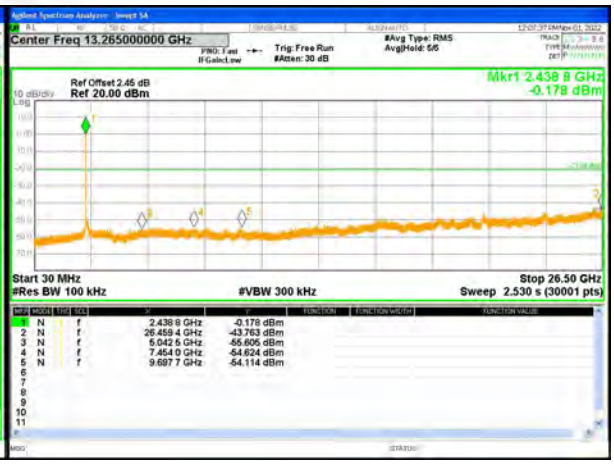


802.11n(HT20)

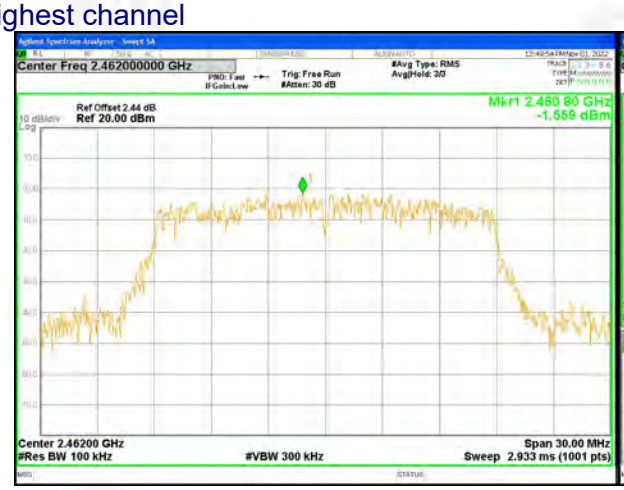
Lowest channel

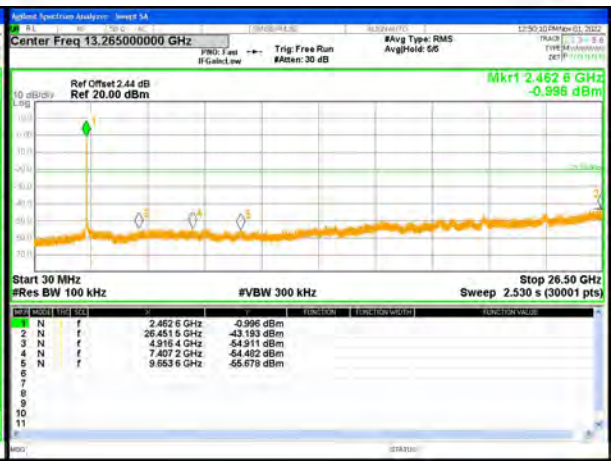


Middle channel



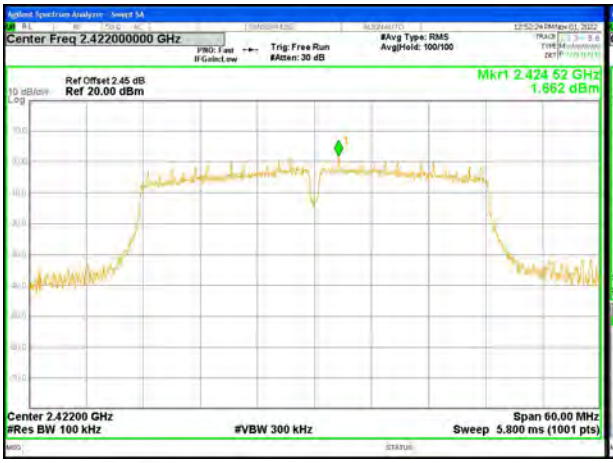
Highest channel

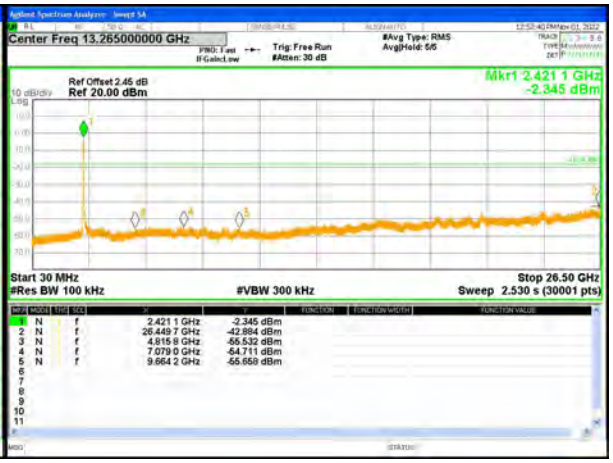




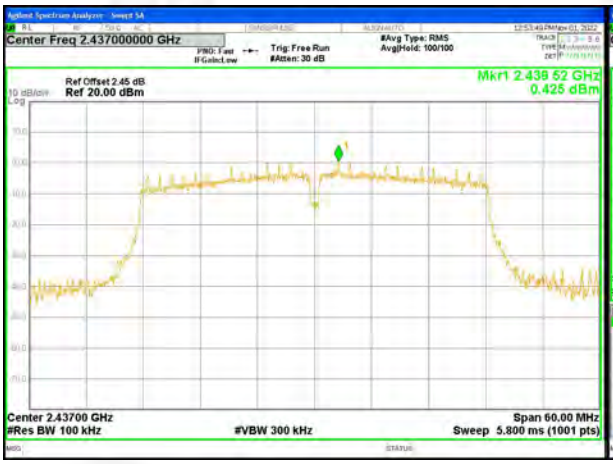
802.11n(HT40)

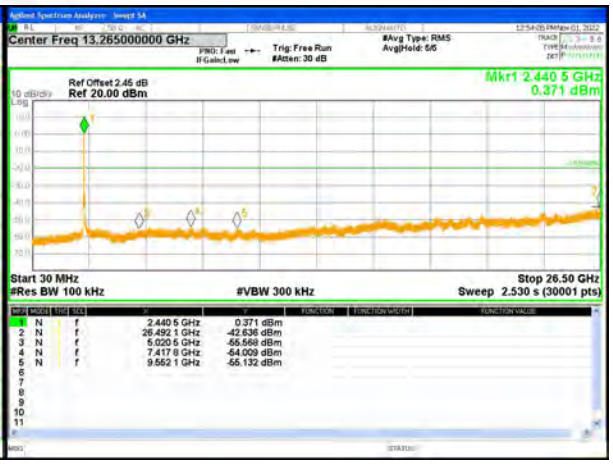
Lowest channel



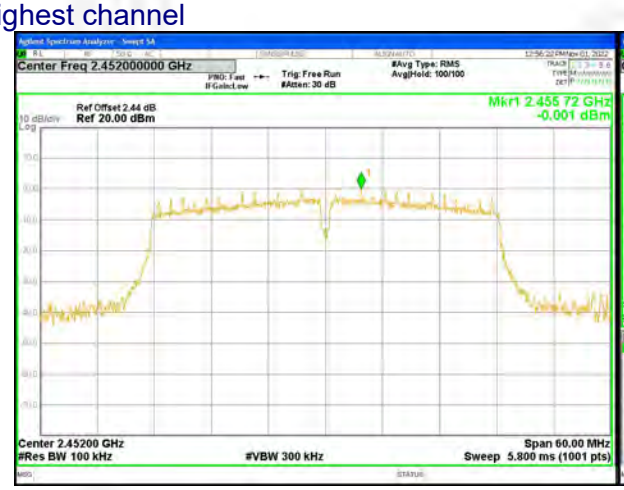


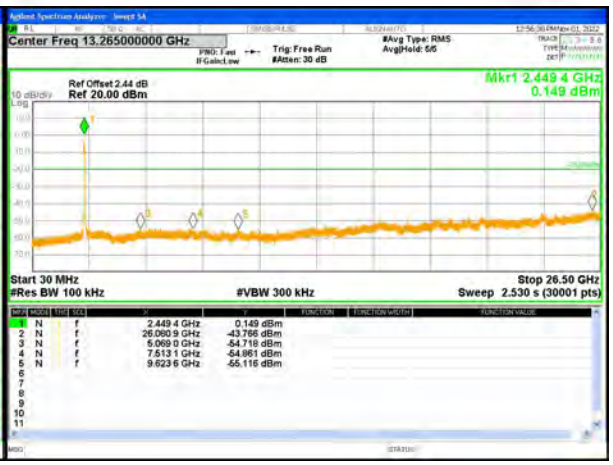
Middle channel





Highest channel





10. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(c) RSS-Gen Section 6.8
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. 15.247(c) (1)(i) requirement: (i) 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 6dBi. A transmitter can only be sold or operated with antennas with which it was approved. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. For transmitters of RF output power of 10 milliwatts or less, only the portion of the antenna gain that is in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power to demonstrate compliance with the radiated power limits specified in the applicable standard. For transmitters of output power greater than 10 milliwatts, the total antenna gain shall be added to the measured RF output power to demonstrate compliance to the specified radiated power RSS-Gen requirement: According to the RSS-Gen Section 6.8, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This device uses of Two antennas that uses a specified coupling to the intentional radiator. Antenna connectors complied with the requirement.	
EUT Antenna:	
The two WIFI 2.4G antennas are Built-in antennas, the best case gain for two antennas are 2dBi, reference to the appendix II for details	

11. TEST SETUP PHOTO

Reference to the appendix I for details.

12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

※※※※※ END OF REPORT ※※※※※