



FCC Part 15C Test Report

FCC ID: 2BGH8-MY350

Applicant: Chengdu Guoying Technology Co., Ltd

Address: Guoying Technology, Building 1, Leping Grain Warehouse, No. 820 Riyue Avenue, Qingyang District, Chengdu City, Sichuan Province

Manufacturer: Chengdu Guoying Technology Co., Ltd

Address: Guoying Technology, Building 1, Leping Grain Warehouse, No. 820 Riyue Avenue, Qingyang District, Chengdu City, Sichuan Province

EUT: Intelligent projector

Trade Mark: GUOIMG

Model Number: MY350
GY350, GY350Pro, MY713, MY350Pro, XY350, XY350Pro, GY713, XY713

Date of Receipt: May. 13, 2024

Test Date: May. 13, 2024 - May. 29, 2024

Date of Report: May. 29, 2024

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

Applicable Standards: FCC PART 15 C 15.247
ANSI C63.10:2013

Test Result: Pass

Report Number: DL-240513020ER

Prepared (Test Engineer): Alisa Song

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



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	PASS	
15.205, 15.209, 15.247(d)	Radiated Spurious Emission	PASS	
15.205, 15.247(d)	Band Edge Emission& Conducted Spurious Emissions	PASS	
15.247(b)	Average Output Power	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

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

Test lab: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 2.56\text{dB}$
2	RF power,conducted	$\pm 0.42\text{dB}$
3	Spurious emissions,conducted	$\pm 2.76\text{dB}$
4	All emissions,radiated(<1G)	$\pm 3.65\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$
8	6dB Bandwidth	$\pm 0.2\text{MHz}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	Intelligent projector
Trademark	GUOIMG
Model No.:	MY350 GY350, GY350Pro, MY713, MY350Pro, XY350, XY350Pro, GY713, XY713
Model Difference	The product's different for model number and appearance color.
Operation Frequency:	802.11b/g/n/ax(20MHz): 2412~2462 MHz 802.11n/ax(40MHz):2422~2452MHz
Channel numbers:	802.11b/g/n/ax: 11CH 802.11n/ax: 7CH
Channel separation:	5MHz
Modulation technology:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ax(OFDM): BPSK,QPSK,16-QAM,64-QAM, 256-QAM
Rate of Transmitter	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n/ax: up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	3.7 dBi
Power Supply:	100-240V~ 50/60Hz

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.
- 3.The product supports only the SU mode.

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		

Channel List(802.11nHT40)

Channel	Frequency (GHz)	Channel	Frequency (GHz)
03	2.422	07	2.442
04	2.427	08	2.447
05	2.432	09	2.452
06	2.437		



2.2 DESCRIPTION OF TEST MODES

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

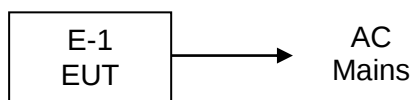
Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n/ax HT20 CH1/ CH6/ CH11
Mode 4	802.11n/ax HT40 CH3/ CH6/ CH09
Mode 5	Link Mode
For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n/ax HT20 CH1/ CH6/ CH11
Mode 4	802.11n/ax HT40 CH3/ CH6/ CH09
Mode 5	Link Mode

Note: 1. The measurements are performed at the highest, middle, lowest available channels.

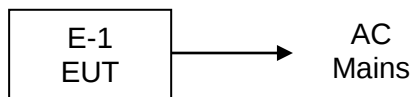
2. During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Spurious Emission Test





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	Intelligent projector	MY350	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: AW869A			
Mode	802.11b	802.11g	802.11n/ax HT20	802.11n/ax HT40
Data Rate	1Mbps	6Mbps	MSC0	MSC0
Power Setting of Softwave	60	60	60	66



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	Nov. 05, 2023	Nov. 04, 2024
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 05, 2023	Nov. 04, 2024
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 05, 2023	Nov. 04, 2024
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 05, 2023	Nov. 04, 2024
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 05, 2023	Nov. 04, 2024
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 05, 2023	Nov. 04, 2024
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 05, 2023	Nov. 04, 2024
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 05, 2023	Nov. 04, 2024
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 05, 2023	Nov. 04, 2024
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 05, 2023	Nov. 04, 2024
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 05, 2023	Nov. 04, 2024
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 05, 2023	Nov. 04, 2024
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 05, 2023	Nov. 04, 2024
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 05, 2023	Nov. 04, 2024
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 05, 2023	Nov. 04, 2024
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 05, 2023	Nov. 04, 2024

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	ChengYu	843 Room	843	Sep. 20, 2022	Sep. 19, 2025
2	EMI Receiver	R&S	ESR	101421	Nov. 05, 2023	Nov. 04, 2024
3	LISN	R&S	ENV216	102417	Nov. 05, 2023	Nov. 04, 2024
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 05, 2023	Nov. 04, 2024

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMCC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMCC	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)		Standard
	Quasi-peak	Average	
0.15 -0.50	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

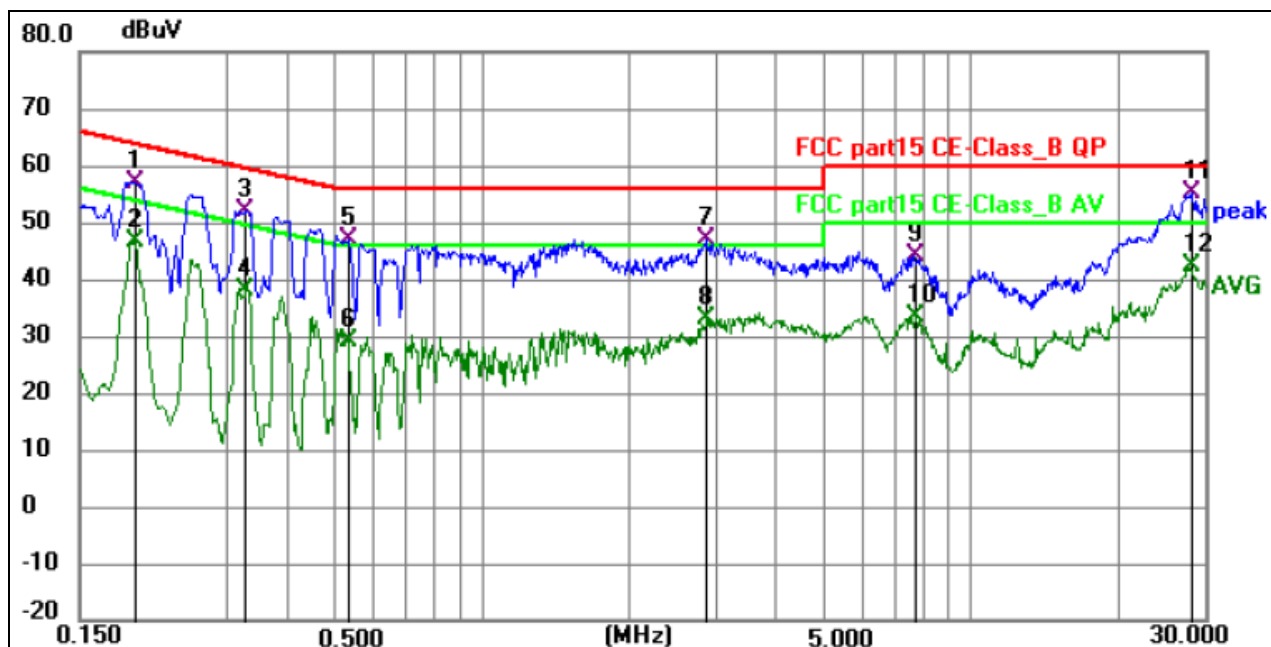
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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

3.1.6 TEST RESULTS



Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 5



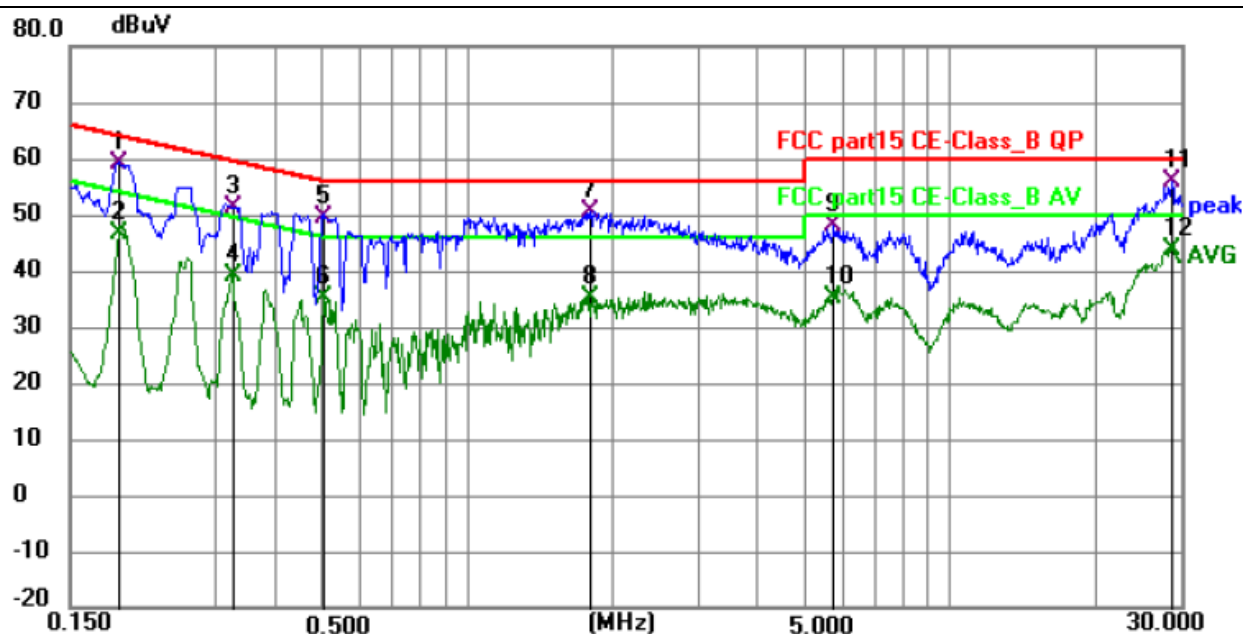
Remark:

 $\text{Margin} = \text{Limit} - \text{Level}$, $\text{Correct Factor} = \text{Cable lose} + \text{LISN insertion loss}$, $\text{Level} = \text{Reading} + \text{Correct factor}$

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1950	47.40	9.62	57.02	63.82	-6.80	QP	P	
2	0.1950	36.94	9.62	46.56	53.82	-7.26	AVG	P	
3	0.3300	42.79	9.08	51.87	59.45	-7.58	QP	P	
4	0.3300	29.13	9.08	38.21	49.45	-11.24	AVG	P	
5	0.5324	37.69	9.31	47.00	56.00	-9.00	QP	P	
6	0.5324	19.69	9.31	29.00	46.00	-17.00	AVG	P	
7	2.8770	37.05	9.76	46.81	56.00	-9.19	QP	P	
8	2.8770	23.12	9.76	32.88	46.00	-13.12	AVG	P	
9	7.6740	34.21	10.03	44.24	60.00	-15.76	QP	P	
10	7.6740	23.45	10.03	33.48	50.00	-16.52	AVG	P	
11 *	28.4370	44.21	11.04	55.25	60.00	-4.75	QP	P	
12	28.4370	31.17	11.04	42.21	50.00	-7.79	AVG	P	



Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 5



Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1903	50.04	9.19	59.23	64.02	-4.79	QP	P	
2	0.1903	37.33	9.19	46.52	54.02	-7.50	AVG	P	
3	0.3300	42.18	9.14	51.32	59.45	-8.13	QP	P	
4	0.3300	29.95	9.14	39.09	49.45	-10.36	AVG	P	
5	0.5054	39.96	9.45	49.41	56.00	-6.59	QP	P	
6	0.5054	25.89	9.45	35.34	46.00	-10.66	AVG	P	
7	1.8060	40.65	9.84	50.49	56.00	-5.51	QP	P	
8	1.8060	25.44	9.84	35.28	46.00	-10.72	AVG	P	
9	5.7390	37.89	10.09	47.98	60.00	-12.02	QP	P	
10	5.7390	25.22	10.09	35.31	50.00	-14.69	AVG	P	
11 *	28.6035	44.69	11.09	55.78	60.00	-4.22	QP	P	
12	28.6035	32.58	11.09	43.67	50.00	-6.33	AVG	P	



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:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 0.8 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

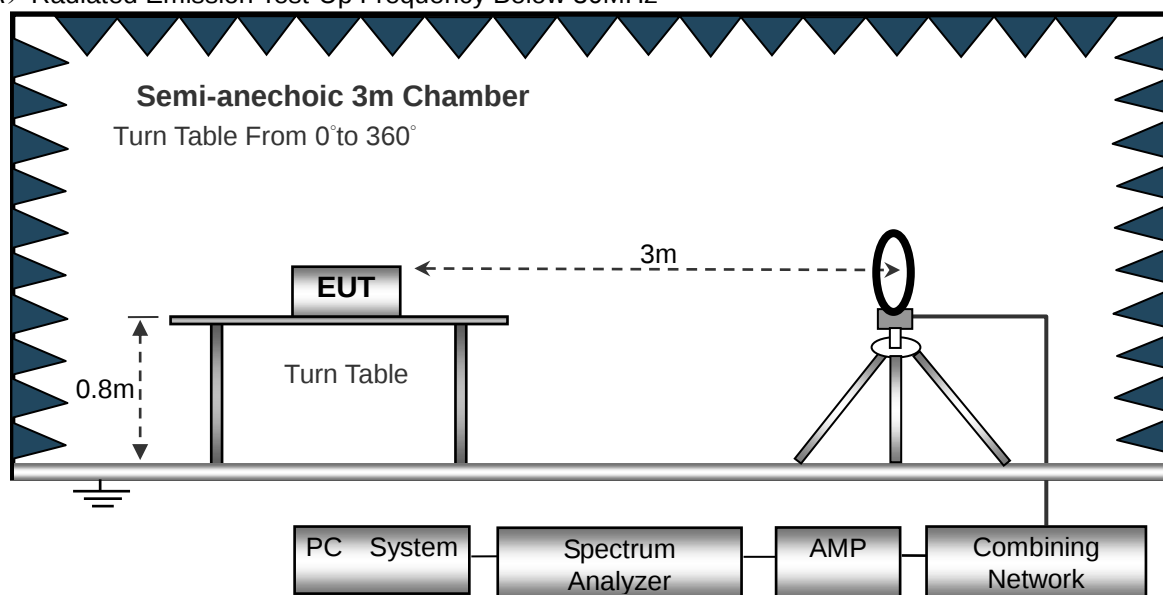
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

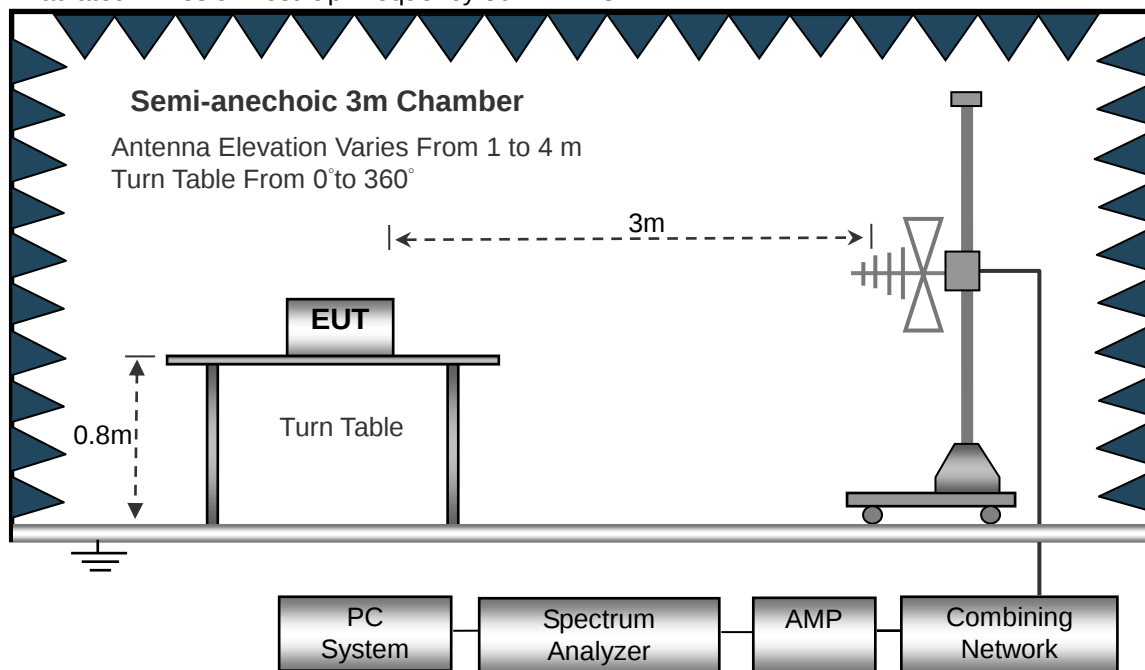
No deviation

3.2.4 TEST SETUP

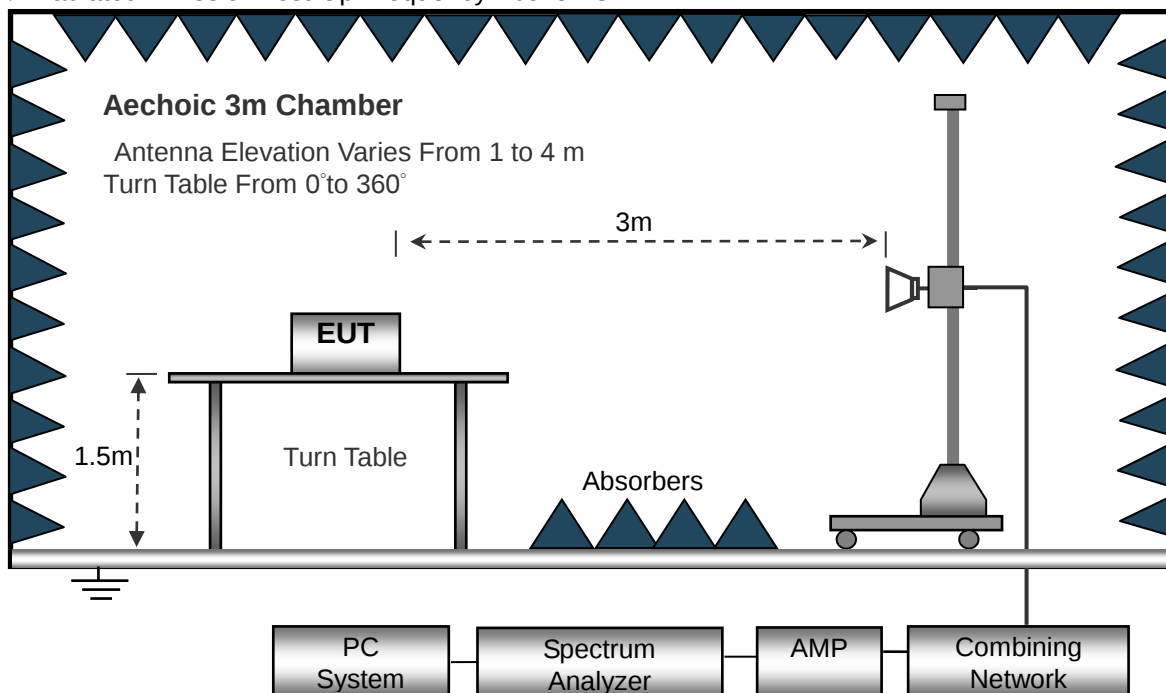
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 5	Polarization :	--

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

NOTE:

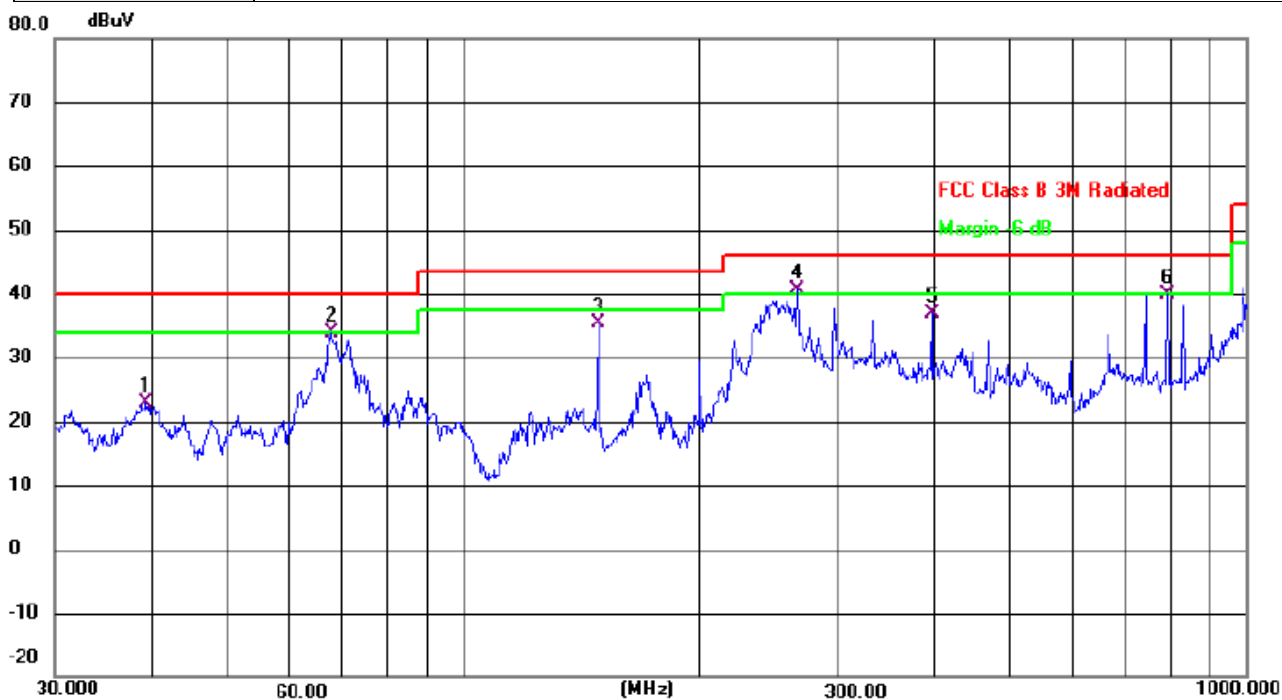
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (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 :	AC 120V/60Hz		
Test Mode :	Mode 5		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV	dB	dB	Detector
1		39.2991	36.90	-13.99	22.91	40.00	-17.09	QP
2		67.6751	48.60	-14.77	33.83	40.00	-6.17	QP
3		148.4410	53.18	-17.78	35.40	43.50	-8.10	QP
4	*	266.6089	52.94	-12.29	40.65	46.00	-5.35	QP
5		396.2415	46.66	-9.84	36.82	46.00	-9.18	QP
6		793.3958	42.27	-2.35	39.92	46.00	-6.08	QP

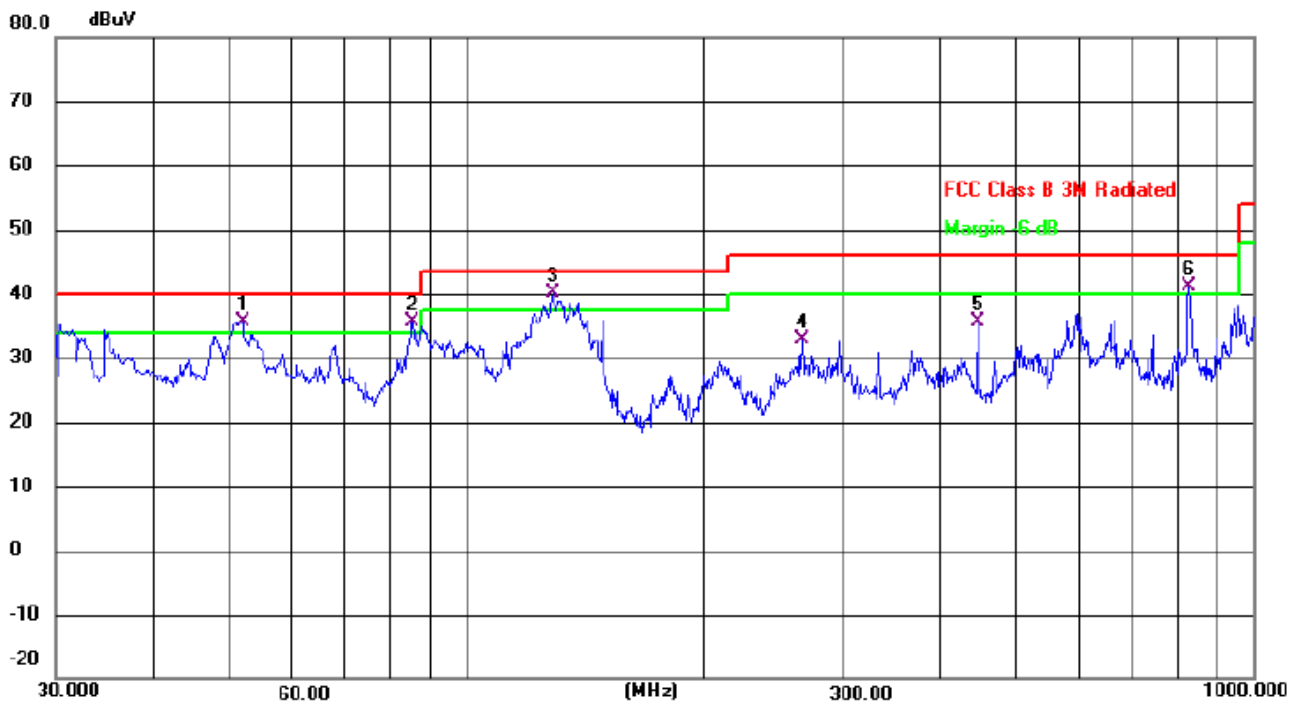
Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

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



Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz		
Test Mode :	Mode 5		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV	dB	dB	Detector
1	!	51.8430	48.78	-13.11	35.67	40.00	-4.33	QP
2	!	85.2980	52.81	-17.26	35.55	40.00	-4.45	QP
3	*	128.5629	57.09	-16.88	40.21	43.50	-3.29	QP
4		266.6089	45.09	-12.29	32.80	46.00	-13.20	QP
5		446.4140	44.40	-8.74	35.66	46.00	-10.34	QP
6	!	827.4934	42.83	-1.77	41.06	46.00	-4.94	QP

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

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

**3.2.8 TEST RESULTS (1GHZ~25GHZ)**

802.11b

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	67.56	50.65	6.88	31.29	55.08	74	-18.92	PK
V	4824	55.41	50.65	6.88	31.29	42.93	54	-11.07	AV
V	7236	66.43	49.98	7.16	36.63	60.24	74	-13.76	PK
V	7236	46.98	49.98	7.16	36.63	40.79	54	-13.21	AV
V	16087	48.52	51.53	11.34	41.52	49.85	74	-24.15	PK
H	4824	66.34	50.65	6.88	31.29	53.86	74	-20.14	PK
H	4824	55.63	50.65	6.88	31.29	43.15	54	-10.85	AV
H	7236	69.85	49.98	7.16	36.63	63.66	74	-10.34	PK
H	7236	45.33	49.98	7.16	36.63	39.14	54	-14.86	AV
H	16087	48.44	51.53	11.34	41.52	49.77	74	-24.23	PK
operation frequency:2437									
V	4874	67.14	50.67	6.89	31.38	54.74	74	-19.26	PK
V	4874	55.18	50.67	6.89	31.38	42.78	54	-11.22	AV
V	7311	69.53	50.02	7.24	36.63	63.38	74	-10.62	PK
V	7311	46.54	50.02	7.24	36.63	40.39	54	-13.61	AV
V	16087	48.59	51.53	11.34	41.52	49.92	74	-24.08	PK
H	4874	66.22	50.67	6.89	31.38	53.82	74	-20.18	PK
H	4874	55.63	50.67	6.89	31.38	43.23	54	-10.77	AV
H	7311	69.44	50.02	7.24	36.63	63.29	74	-10.71	PK
H	7311	47.72	50.02	7.24	36.63	41.57	54	-12.43	AV
H	16087	48.59	51.53	11.34	41.52	49.92	74	-24.08	PK
operation frequency:2462									
V	4924	68.32	50.79	6.83	31.36	55.75	74	-18.25	PK
V	4924	55.28	50.79	6.83	31.36	43.16	54	-10.84	AV
V	7386	69.54	50.11	7.25	36.58	62.99	74	-11.01	PK
V	7386	46.86	50.11	7.25	36.58	40.14	54	-13.86	AV
V	16087	49.67	51.53	11.34	41.52	50.57	74	-23.43	PK
H	4924	67.36	50.79	6.83	31.36	55.06	74	-18.94	PK
H	4924	55.52	50.79	6.83	31.36	42.68	54	-11.32	AV
H	7386	67.54	50.11	7.25	36.58	61.11	74	-12.89	PK
H	7386	48.86	50.11	7.25	36.58	41.94	54	-12.06	AV
H	16087	49.38	51.53	11.34	41.52	50.47	74	-23.53	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	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	67.66	50.65	6.88	31.29	55.18	74	-18.82	PK
V	4824	55.31	50.65	6.88	31.29	42.83	54	-11.17	AV
V	7236	66.43	49.98	7.16	36.63	60.24	74	-13.76	PK
V	7236	46.84	49.98	7.16	36.63	40.65	54	-13.35	AV
V	16087	49.73	51.53	11.34	41.52	51.06	74	-22.94	PK
H	4824	69.81	50.65	6.88	31.29	57.33	74	-16.67	PK
H	4824	52.63	50.65	6.88	31.29	40.15	54	-13.85	AV
H	7236	66.47	49.98	7.16	36.63	60.28	74	-13.72	PK
H	7236	47.33	49.98	7.16	36.63	41.14	54	-12.86	AV
H	16087	47.85	51.53	11.34	41.52	49.18	74	-24.82	PK
operation frequency:2437									
V	4874	67.33	50.67	6.89	31.38	54.93	74	-19.07	PK
V	4874	55.44	50.67	6.89	31.38	43.04	54	-10.96	AV
V	7311	66.99	50.02	7.24	36.63	60.84	74	-13.16	PK
V	7311	46.28	50.02	7.24	36.63	40.13	54	-13.87	AV
V	16087	48.27	51.53	11.34	41.52	49.6	74	-24.4	PK
H	4874	66.63	50.67	6.89	31.38	54.23	74	-19.77	PK
H	4874	55.95	50.67	6.89	31.38	43.55	54	-10.45	AV
H	7311	65.26	50.02	7.24	36.63	59.11	74	-14.89	PK
H	7311	47.35	50.02	7.24	36.63	41.2	54	-12.8	AV
H	16087	48.52	51.53	11.34	41.52	49.85	74	-24.15	PK
operation frequency:2462									
V	4924	67.39	50.79	6.83	31.36	54.79	74	-19.21	PK
V	4924	55.74	50.79	6.83	31.36	43.14	54	-10.86	AV
V	7386	66.62	50.11	7.25	36.58	60.34	74	-13.66	PK
V	7386	47.36	50.11	7.25	36.58	41.08	54	-12.92	AV
V	16087	46.74	51.53	11.34	41.52	48.07	74	-25.93	PK
H	4924	66.86	50.79	6.83	31.36	54.26	74	-19.74	PK
H	4924	54.24	50.79	6.83	31.36	41.64	54	-12.36	AV
H	7386	65.33	50.11	7.25	36.58	59.05	74	-14.95	PK
H	7386	45.28	50.11	7.25	36.58	39	54	-15	AV
H	16087	47.83	51.53	11.34	41.52	49.16	74	-24.84	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	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	66.67	50.65	6.88	31.29	54.19	74	-19.81	PK
V	4824	55.14	50.65	6.88	31.29	42.66	54	-11.34	AV
V	7236	66.86	49.98	7.16	36.63	60.67	74	-13.33	PK
V	7236	46.37	49.98	7.16	36.63	40.18	54	-13.82	AV
V	16087	46.56	51.53	11.34	41.52	47.89	74	-26.11	PK
H	4824	66.62	50.65	6.88	31.29	54.14	74	-19.86	PK
H	4824	55.98	50.65	6.88	31.29	43.5	54	-10.5	AV
H	7236	64.63	49.98	7.16	36.63	58.44	74	-15.56	PK
H	7236	47.55	49.98	7.16	36.63	41.36	54	-12.64	AV
H	16087	47.66	51.53	11.34	41.52	48.99	74	-25.01	PK
operation frequency:2437									
V	4874	66.54	50.67	6.89	31.38	54.14	74	-19.86	PK
V	4874	54.66	50.67	6.89	31.38	42.26	54	-11.74	AV
V	7311	65.67	50.02	7.24	36.63	59.52	74	-14.48	PK
V	7311	47.53	50.02	7.24	36.63	41.38	54	-12.62	AV
V	16087	47.85	51.53	11.34	41.52	49.18	74	-24.82	PK
H	4874	65.96	50.67	6.89	31.38	53.56	74	-20.44	PK
H	4874	53.41	50.67	6.89	31.38	41.01	54	-12.99	AV
H	7311	65.36	50.02	7.24	36.63	59.21	74	-14.79	PK
H	7311	46.11	50.02	7.24	36.63	39.96	54	-14.04	AV
H	16087	46.67	51.53	11.34	41.52	48	74	-26	PK
operation frequency:2462									
V	4924	67.33	50.79	6.83	31.36	54.73	74	-19.27	PK
V	4924	54.64	50.79	6.83	31.36	42.04	54	-11.96	AV
V	7386	64.86	50.11	7.25	36.58	58.58	74	-15.42	PK
V	7386	46.74	50.11	7.25	36.58	40.46	54	-13.54	AV
V	16087	48.36	51.53	11.34	41.52	49.69	74	-24.31	PK
H	4924	67.65	50.79	6.83	31.36	55.05	74	-18.95	PK
H	4924	54.36	50.79	6.83	31.36	41.76	54	-12.24	AV
H	7386	65.25	50.11	7.25	36.58	58.97	74	-15.03	PK
H	7386	47.67	50.11	7.25	36.58	41.39	54	-12.61	AV
H	16087	47.63	51.53	11.34	41.52	48.96	74	-25.04	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.



802.11ax HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	67.52	50.65	6.88	31.29	55.04	74	-18.96	PK
V	4824	55.63	50.65	6.88	31.29	43.15	54	-10.85	AV
V	7236	66.47	49.98	7.16	36.63	60.28	74	-13.72	PK
V	7236	46.89	49.98	7.16	36.63	40.7	54	-13.3	AV
V	16087	49.55	51.53	11.34	41.52	50.88	74	-23.12	PK
H	4824	69.26	50.65	6.88	31.29	56.78	74	-17.22	PK
H	4824	52.14	50.65	6.88	31.29	39.66	54	-14.34	AV
H	7236	66.89	49.98	7.16	36.63	60.7	74	-13.3	PK
H	7236	47.52	49.98	7.16	36.63	41.33	54	-12.67	AV
H	16087	47.63	51.53	11.34	41.52	48.96	74	-25.04	PK
operation frequency:2437									
V	4874	67.58	50.67	6.89	31.38	55.18	74	-18.82	PK
V	4874	55.69	50.67	6.89	31.38	43.29	54	-10.71	AV
V	7311	66.41	50.02	7.24	36.63	60.26	74	-13.74	PK
V	7311	46.28	50.02	7.24	36.63	40.13	54	-13.87	AV
V	16087	48.26	51.53	11.34	41.52	49.59	74	-24.41	PK
H	4874	66.14	50.67	6.89	31.38	53.74	74	-20.26	PK
H	4874	55.36	50.67	6.89	31.38	42.96	54	-11.04	AV
H	7311	65.85	50.02	7.24	36.63	59.7	74	-14.3	PK
H	7311	47.17	50.02	7.24	36.63	41.02	54	-12.98	AV
H	16087	48.69	51.53	11.34	41.52	50.02	74	-23.98	PK
operation frequency:2462									
V	4924	67.52	50.79	6.83	31.36	54.92	74	-19.08	PK
V	4924	55.63	50.79	6.83	31.36	43.03	54	-10.97	AV
V	7386	66.14	50.11	7.25	36.58	59.86	74	-14.14	PK
V	7386	47.39	50.11	7.25	36.58	41.11	54	-12.89	AV
V	16087	46.52	51.53	11.34	41.52	47.85	74	-26.15	PK
H	4924	66.81	50.79	6.83	31.36	54.21	74	-19.79	PK
H	4924	54.63	50.79	6.83	31.36	42.03	54	-11.97	AV
H	7386	65.14	50.11	7.25	36.58	58.86	74	-15.14	PK
H	7386	45.85	50.11	7.25	36.58	39.57	54	-14.43	AV
H	16087	47.66	51.53	11.34	41.52	48.99	74	-25.01	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 HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2422									
V	4844	66.64	50.67	6.89	31.32	54.18	74	-19.82	PK
V	4844	55.28	50.67	6.89	31.32	42.82	54	-11.18	AV
V	7266	66.66	50.01	7.15	36.62	60.42	74	-13.58	PK
V	7266	46.41	50.01	7.15	36.62	40.17	54	-13.83	AV
V	16087	46.85	51.53	11.34	41.52	48.18	74	-25.82	PK
H	4844	66.86	50.67	6.89	31.32	54.4	74	-19.6	PK
H	4844	55.57	50.67	6.89	31.32	43.11	54	-10.89	AV
H	7266	64.33	50.01	7.15	36.62	58.09	74	-15.91	PK
H	7266	47.52	50.01	7.15	36.62	41.28	54	-12.72	AV
H	16087	47.69	51.53	11.34	41.52	49.02	74	-24.98	PK
operation frequency:2437									
V	4874	66.55	50.67	6.89	31.38	54.15	74	-19.85	PK
V	4874	54.36	50.67	6.89	31.38	41.96	54	-12.04	AV
V	7311	65.38	50.02	7.24	36.63	59.23	74	-14.77	PK
V	7311	46.96	50.02	7.24	36.63	40.81	54	-13.19	AV
V	16087	47.84	51.53	11.34	41.52	49.17	74	-24.83	PK
H	4874	65.58	50.67	6.89	31.38	53.18	74	-20.82	PK
H	4874	53.63	50.67	6.89	31.38	41.23	54	-12.77	AV
H	7311	65.62	50.02	7.24	36.63	59.47	74	-14.53	PK
H	7311	47.21	50.02	7.24	36.63	41.06	54	-12.94	AV
H	16087	46.49	51.53	11.34	41.52	47.82	74	-26.18	PK
operation frequency:2452									
V	4904	67.38	50.76	6.81	31.31	54.74	74	-19.26	PK
V	4904	54.86	50.76	6.81	31.31	42.22	54	-11.78	AV
V	7356	64.48	50.08	7.21	36.52	58.13	74	-15.87	PK
V	7356	47.31	50.08	7.21	36.52	40.96	54	-13.04	AV
V	16087	48.37	51.53	11.34	41.52	49.7	74	-24.3	PK
H	4904	67.96	50.76	6.81	31.31	55.32	74	-18.68	PK
H	4904	54.48	50.76	6.81	31.31	41.84	54	-12.16	AV
H	7356	65.36	50.08	7.21	36.52	59.01	74	-14.99	PK
H	7356	46.77	50.08	7.21	36.52	40.42	54	-13.58	AV
H	16087	47.11	51.53	11.34	41.52	48.44	74	-25.56	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.



802.11ax HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2422									
V	4844	66.27	50.67	6.89	31.32	53.81	74	-20.19	PK
V	4844	55.69	50.67	6.89	31.32	43.23	54	-10.77	AV
V	7266	66.14	50.01	7.15	36.62	59.9	74	-14.1	PK
V	7266	46.88	50.01	7.15	36.62	40.64	54	-13.36	AV
V	16087	46.86	51.53	11.34	41.52	48.19	74	-25.81	PK
H	4844	66.29	50.67	6.89	31.32	53.83	74	-20.17	PK
H	4844	55.54	50.67	6.89	31.32	43.08	54	-10.92	AV
H	7266	64.85	50.01	7.15	36.62	58.61	74	-15.39	PK
H	7266	47.56	50.01	7.15	36.62	41.32	54	-12.68	AV
H	16087	47.67	51.53	11.34	41.52	49	74	-25	PK
operation frequency:2437									
V	4874	66.63	50.67	6.89	31.38	54.23	74	-19.77	PK
V	4874	54.34	50.67	6.89	31.38	41.94	54	-12.06	AV
V	7311	65.96	50.02	7.24	36.63	59.81	74	-14.19	PK
V	7311	46.94	50.02	7.24	36.63	40.79	54	-13.21	AV
V	16087	47.88	51.53	11.34	41.52	49.21	74	-24.79	PK
H	4874	65.63	50.67	6.89	31.38	53.23	74	-20.77	PK
H	4874	53.14	50.67	6.89	31.38	40.74	54	-13.26	AV
H	7311	65.63	50.02	7.24	36.63	59.48	74	-14.52	PK
H	7311	47.85	50.02	7.24	36.63	41.7	54	-12.3	AV
H	16087	46.46	51.53	11.34	41.52	47.79	74	-26.21	PK
operation frequency:2452									
V	4904	67.34	50.76	6.81	31.31	54.7	74	-19.3	PK
V	4904	54.82	50.76	6.81	31.31	42.18	54	-11.82	AV
V	7356	64.49	50.08	7.21	36.52	58.14	74	-15.86	PK
V	7356	47.74	50.08	7.21	36.52	41.39	54	-12.61	AV
V	16087	48.36	51.53	11.34	41.52	49.69	74	-24.31	PK
H	4904	67.93	50.76	6.81	31.31	55.29	74	-18.71	PK
H	4904	54.44	50.76	6.81	31.31	41.8	54	-12.2	AV
H	7356	65.37	50.08	7.21	36.52	59.02	74	-14.98	PK
H	7356	46.63	50.08	7.21	36.52	40.28	54	-13.72	AV
H	16087	47.18	51.53	11.34	41.52	48.51	74	-25.49	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.



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:

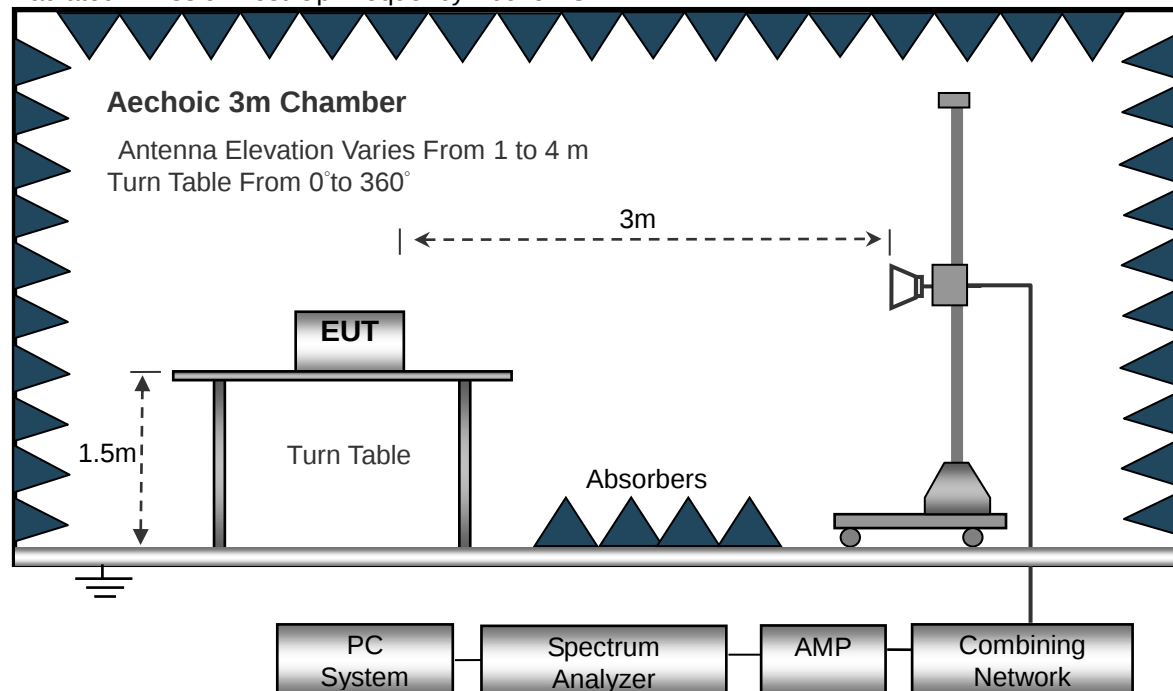
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

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	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2390	76.29	52.12	2.73	27.38	54.28	74	-19.72	PK
V	2390	65.64	52.12	2.73	27.38	43.63	54	-10.37	AV
V	2400	76.53	52.16	2.78	27.41	54.56	74	-19.44	PK
V	2400	64.67	52.16	2.78	27.41	42.7	54	-11.3	AV
H	2390	76.32	52.12	2.73	27.38	54.31	74	-19.69	PK
H	2390	65.63	52.12	2.73	27.38	43.62	54	-10.38	AV
H	2400	76.34	52.16	2.78	27.41	54.37	74	-19.63	PK
H	2400	65.87	52.16	2.78	27.41	43.9	54	-10.1	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	76.36	52.23	2.86	27.44	54.43	74	-19.57	PK
V	2483.5	65.48	52.23	2.86	27.44	43.55	54	-10.45	AV
V	2500	76.24	52.26	2.88	27.49	54.35	74	-19.65	PK
V	2500	64.68	52.26	2.88	27.49	42.79	54	-11.21	AV
H	2483.5	76.53	52.23	2.86	27.44	54.6	74	-19.4	PK
H	2483.5	65.14	52.23	2.86	27.44	43.21	54	-10.79	AV
H	2500	76.77	52.26	2.88	27.49	54.88	74	-19.12	PK
H	2500	65.46	52.26	2.88	27.49	43.57	54	-10.43	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	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2390	76.84	52.12	2.73	27.38	54.83	74	-19.17	PK
V	2390	65.86	52.12	2.73	27.38	43.85	54	-10.15	AV
V	2400	76.32	52.16	2.78	27.41	54.35	74	-19.65	PK
V	2400	64.97	52.16	2.78	27.41	43	54	-11	AV
H	2390	76.63	52.12	2.73	27.38	54.62	74	-19.38	PK
H	2390	65.14	52.12	2.73	27.38	43.13	54	-10.87	AV
H	2400	76.83	52.16	2.78	27.41	54.86	74	-19.14	PK
H	2400	65.38	52.16	2.78	27.41	43.41	54	-10.59	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	76.56	52.23	2.86	27.44	54.63	74	-19.37	PK
V	2483.5	65.24	52.23	2.86	27.44	43.31	54	-10.69	AV
V	2500	76.21	52.26	2.88	27.49	54.32	74	-19.68	PK
V	2500	65.69	52.26	2.88	27.49	43.8	54	-10.2	AV
H	2483.5	76.35	52.23	2.86	27.44	54.42	74	-19.58	PK
H	2483.5	65.63	52.23	2.86	27.44	43.7	54	-10.3	AV
H	2500	76.14	52.26	2.88	27.49	54.25	74	-19.75	PK
H	2500	65.96	52.26	2.88	27.49	44.07	54	-9.93	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	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2390	76.64	52.12	2.73	27.38	54.63	74	-19.37	PK
V	2390	65.56	52.12	2.73	27.38	43.55	54	-10.45	AV
V	2400	77.17	52.16	2.78	27.41	55.2	74	-18.8	PK
V	2400	65.25	52.16	2.78	27.41	43.28	54	-10.72	AV
H	2390	77.66	52.12	2.73	27.38	55.65	74	-18.35	PK
H	2390	65.64	52.12	2.73	27.38	43.63	54	-10.37	AV
H	2400	76.58	52.16	2.78	27.41	54.61	74	-19.39	PK
H	2400	65.63	52.16	2.78	27.41	43.66	54	-10.34	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	77.24	52.23	2.86	27.44	55.31	74	-18.69	PK
V	2483.5	65.37	52.23	2.86	27.44	43.44	54	-10.56	AV
V	2500	76.66	52.26	2.88	27.49	54.77	74	-19.23	PK
V	2500	65.55	52.26	2.88	27.49	43.66	54	-10.34	AV
H	2483.5	77.36	52.23	2.86	27.44	55.43	74	-18.57	PK
H	2483.5	65.35	52.23	2.86	27.44	43.42	54	-10.58	AV
H	2500	76.63	52.26	2.88	27.49	54.74	74	-19.26	PK
H	2500	66.17	52.26	2.88	27.49	44.28	54	-9.72	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.



802.11ax HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2390	76.69	52.12	2.73	27.38	54.68	74	-19.32	PK
V	2390	65.14	52.12	2.73	27.38	43.13	54	-10.87	AV
V	2400	77.63	52.16	2.78	27.41	55.66	74	-18.34	PK
V	2400	65.52	52.16	2.78	27.41	43.55	54	-10.45	AV
H	2390	77.14	52.12	2.73	27.38	55.13	74	-18.87	PK
H	2390	65.69	52.12	2.73	27.38	43.68	54	-10.32	AV
H	2400	76.52	52.16	2.78	27.41	54.55	74	-19.45	PK
H	2400	65.41	52.16	2.78	27.41	43.44	54	-10.56	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	77.26	52.23	2.86	27.44	55.33	74	-18.67	PK
V	2483.5	65.38	52.23	2.86	27.44	43.45	54	-10.55	AV
V	2500	76.64	52.26	2.88	27.49	54.75	74	-19.25	PK
V	2500	65.36	52.26	2.88	27.49	43.47	54	-10.53	AV
H	2483.5	77.22	52.23	2.86	27.44	55.29	74	-18.71	PK
H	2483.5	65.96	52.23	2.86	27.44	44.03	54	-9.97	AV
H	2500	76.14	52.26	2.88	27.49	54.25	74	-19.75	PK
H	2500	66.63	52.26	2.88	27.49	44.74	54	-9.26	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 HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2422									
V	2390	76.61	52.12	2.73	27.38	54.6	74	-19.4	PK
V	2390	65.39	52.12	2.73	27.38	43.38	54	-10.62	AV
V	2400	77.52	52.16	2.78	27.41	55.55	74	-18.45	PK
V	2400	65.63	52.16	2.78	27.41	43.66	54	-10.34	AV
H	2390	77.27	52.12	2.73	27.38	55.26	74	-18.74	PK
H	2390	65.36	52.12	2.73	27.38	43.35	54	-10.65	AV
H	2400	76.74	52.16	2.78	27.41	54.77	74	-19.23	PK
H	2400	65.22	52.16	2.78	27.41	43.25	54	-10.75	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2452									
V	2483.5	77.39	52.23	2.86	27.44	55.46	74	-18.54	PK
V	2483.5	65.64	52.23	2.86	27.44	43.71	54	-10.29	AV
V	2500	76.28	52.26	2.88	27.49	54.39	74	-19.61	PK
V	2500	65.36	52.26	2.88	27.49	43.47	54	-10.53	AV
H	2483.5	77.34	52.23	2.86	27.44	55.41	74	-18.59	PK
H	2483.5	65.14	52.23	2.86	27.44	43.21	54	-10.79	AV
H	2500	76.33	52.26	2.88	27.49	54.44	74	-19.56	PK
H	2500	66.77	52.26	2.88	27.49	44.88	54	-9.12	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.



802.11ax HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2422									
V	2390	76.33	52.12	2.73	27.38	54.32	74	-19.68	PK
V	2390	65.14	52.12	2.73	27.38	43.13	54	-10.87	AV
V	2400	77.89	52.16	2.78	27.41	55.92	74	-18.08	PK
V	2400	65.64	52.16	2.78	27.41	43.67	54	-10.33	AV
H	2390	77.22	52.12	2.73	27.38	55.21	74	-18.79	PK
H	2390	65.39	52.12	2.73	27.38	43.38	54	-10.62	AV
H	2400	76.52	52.16	2.78	27.41	54.55	74	-19.45	PK
H	2400	65.63	52.16	2.78	27.41	43.66	54	-10.34	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2452									
V	2483.5	77.25	52.23	2.86	27.44	55.32	74	-18.68	PK
V	2483.5	65.68	52.23	2.86	27.44	43.75	54	-10.25	AV
V	2500	76.23	52.26	2.88	27.49	54.34	74	-19.66	PK
V	2500	65.37	52.26	2.88	27.49	43.48	54	-10.52	AV
H	2483.5	77.36	52.23	2.86	27.44	55.43	74	-18.57	PK
H	2483.5	65.85	52.23	2.86	27.44	43.92	54	-10.08	AV
H	2500	76.34	52.26	2.88	27.49	54.45	74	-19.55	PK
H	2500	66.96	52.26	2.88	27.49	45.07	54	-8.93	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.



3.4 CONDUCTED BAND EDGE EMISSION&CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

3.4.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

3.4.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

Set the RBW = 100KHz.

Set the VBW = 300KHz.

Sweep time = auto couple.

Detector function = peak.

Trace mode = max hold.

Allow trace to fully stabilize.

3.4.3 DEVIATION FROM STANDARD

No deviation.

3.4.4 TEST SETUP



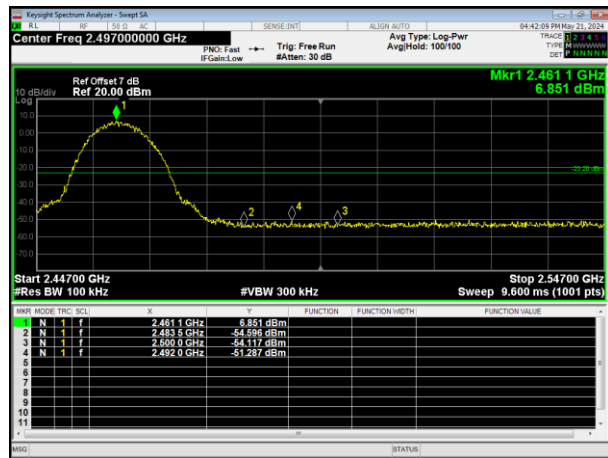
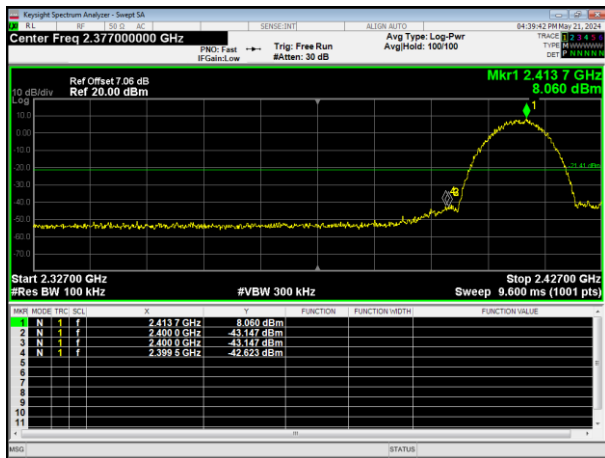
3.4.5 EUT OPERATION CONDITIONS

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.

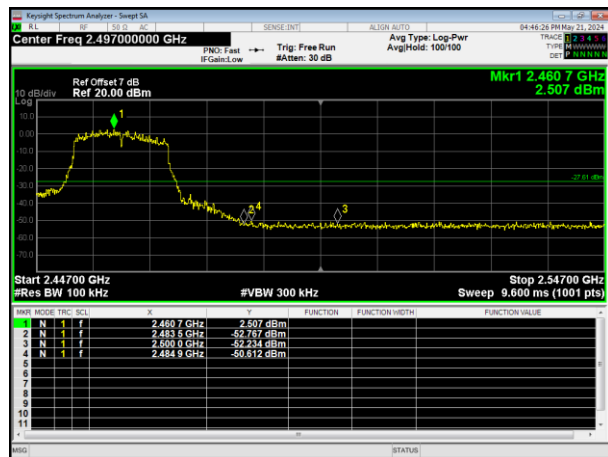
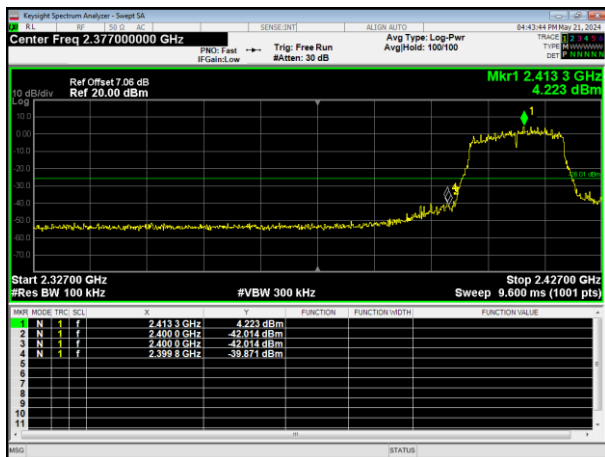
3.4.6 TEST RESULTS



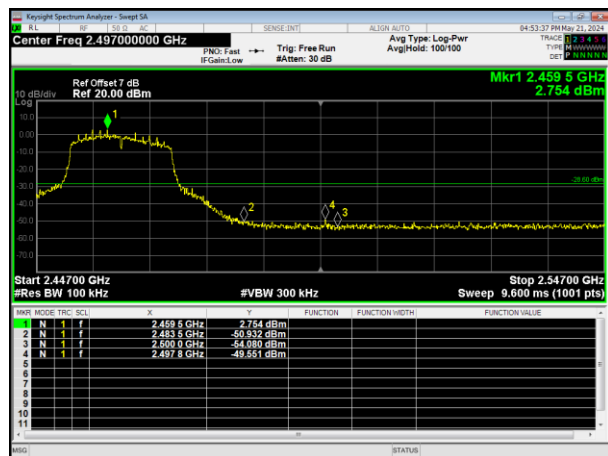
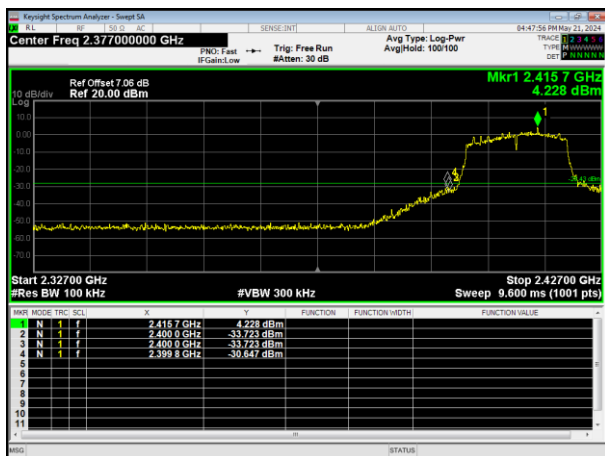
For Conducted
802.11b



802.11g

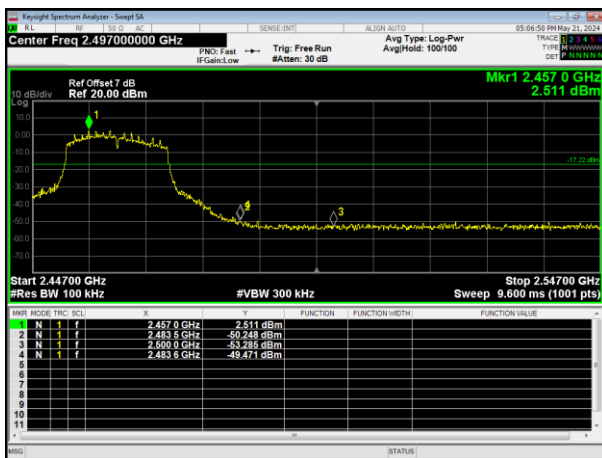
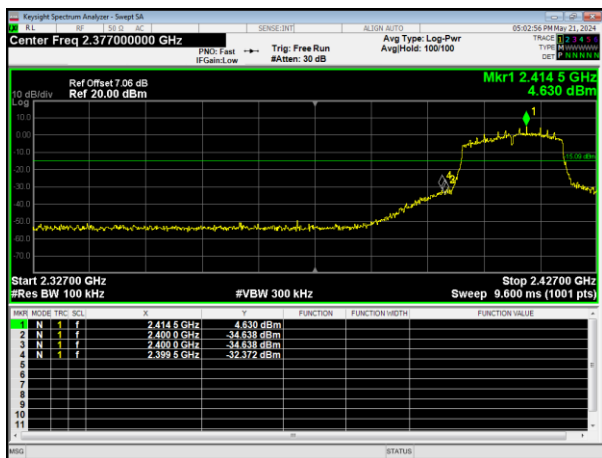


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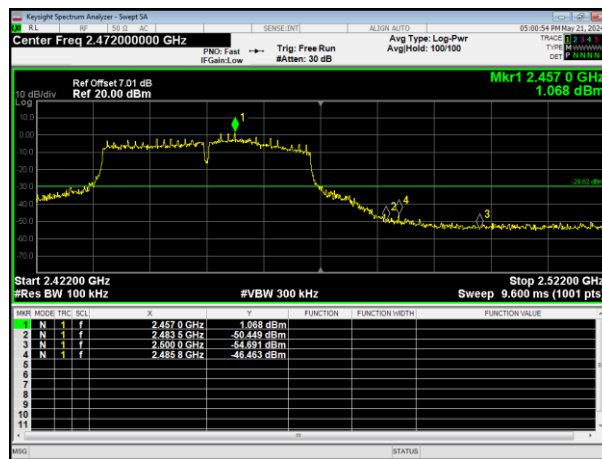
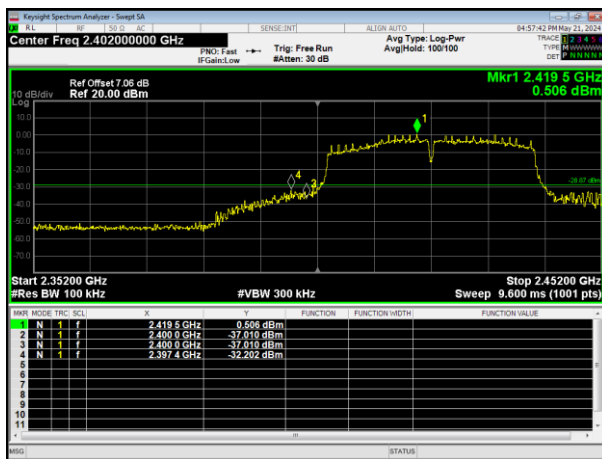




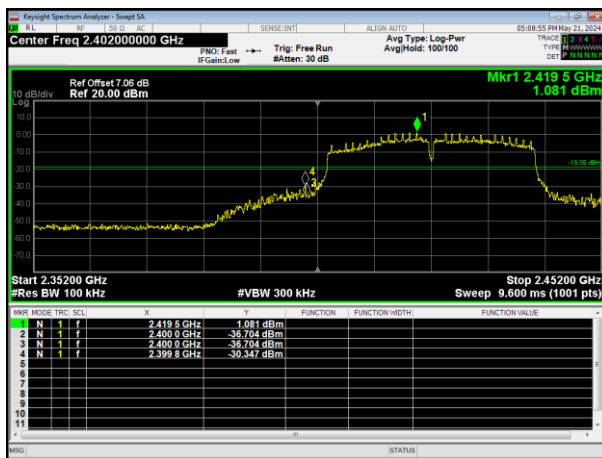
802.11ax HT20



802.11n HT40



802.11ax HT40



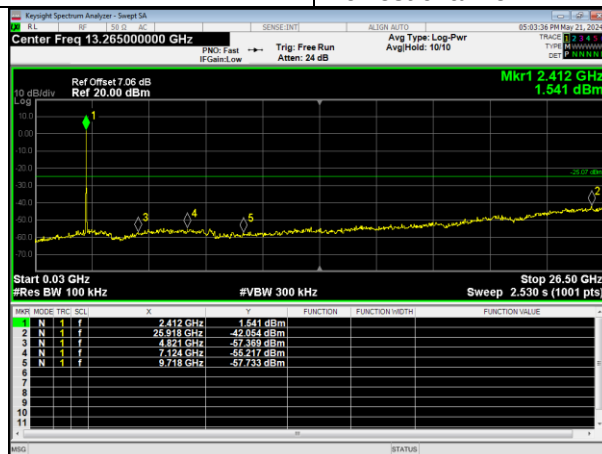


For Conducted

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

Test channel:

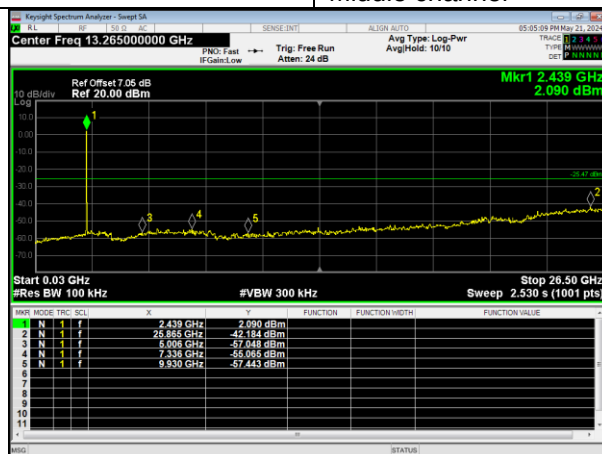
Lowest channel



0.03GHz~26.5GHz

Test channel:

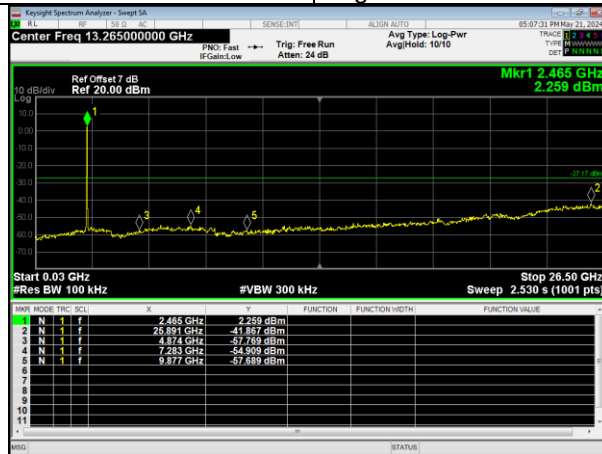
Middle channel



0.03GHz~26.5GHz

Test channel:

Highest channel



0.03GHz~26.5GHz



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

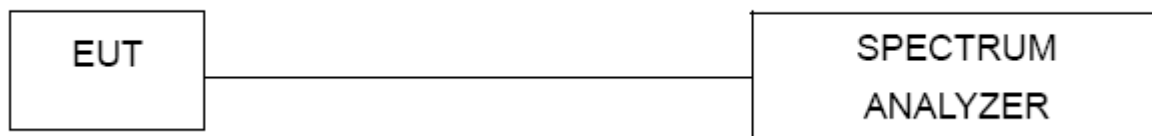
4.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Set span to at least 1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- If transmit duty cycle < 98%, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- Trace average at least 100 traces in power averaging (rms) mode.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

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.

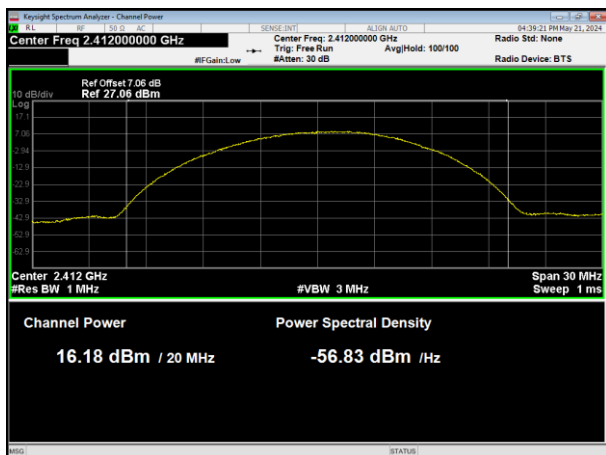
**4.1.5 TEST RESULTS**

Temperature:	25 °C	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz

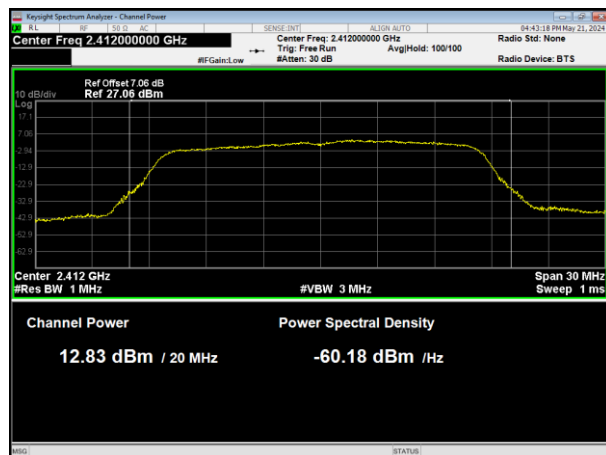
Mode	Test Channel	Average Output Power (dBm)	LIMIT (dBm)
802.11b	Low	16.182	30.00
	Middle	16.611	30.00
	High	15.073	30.00
802.11g	Low	12.834	30.00
	Middle	13.394	30.00
	High	11.861	30.00
802.11n HT20	Low	14.061	30.00
	Middle	14.467	30.00
	High	12.646	30.00
802.11n HT40	Low	13.562	30.00
	Middle	13.619	30.00
	High	12.609	30.00
802.11ax HT20	Low	13.945	30.00
	Middle	14.353	30.00
	High	12.581	30.00
802.11ax HT40	Low	13.302	30.00
	Middle	13.423	30.00
	High	12.46	30.00



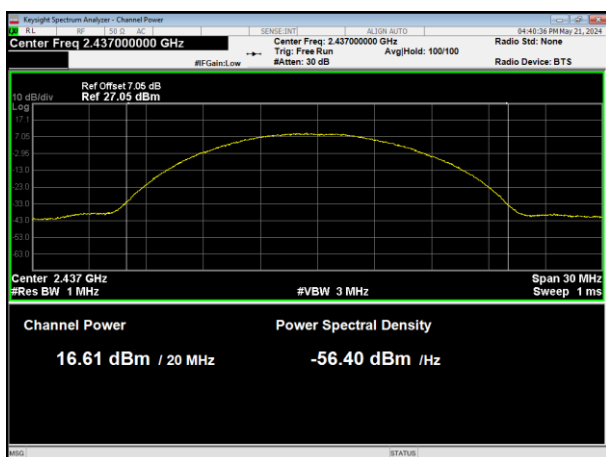
802.11b



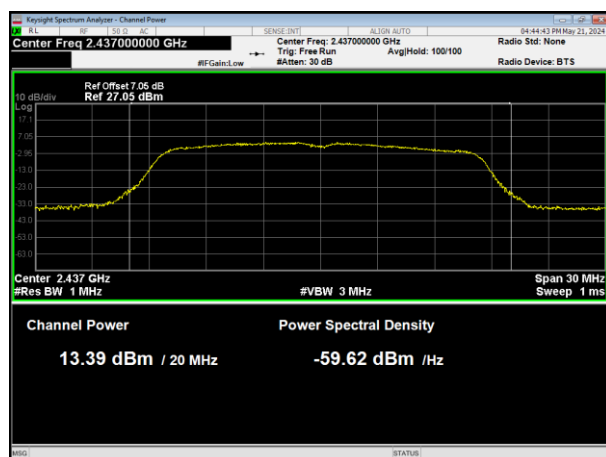
802.11g



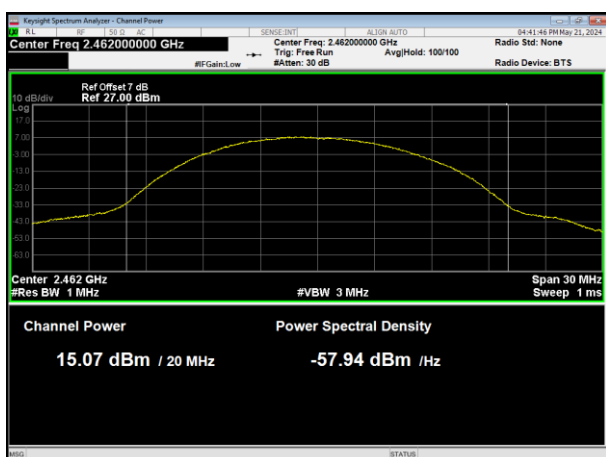
2412MHz



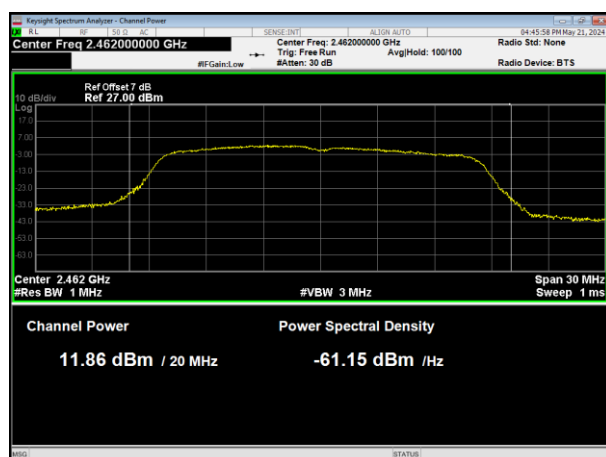
2412MHz



2437MHz



2437MHz

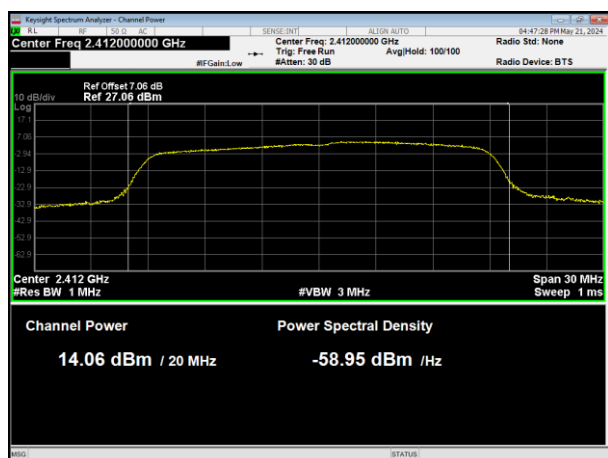


2462MHz

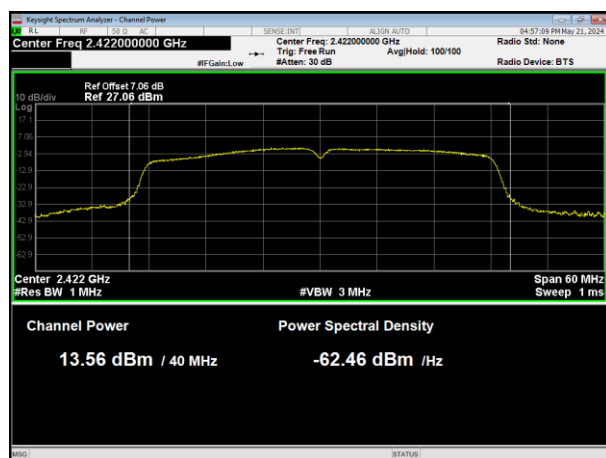
2462MHz



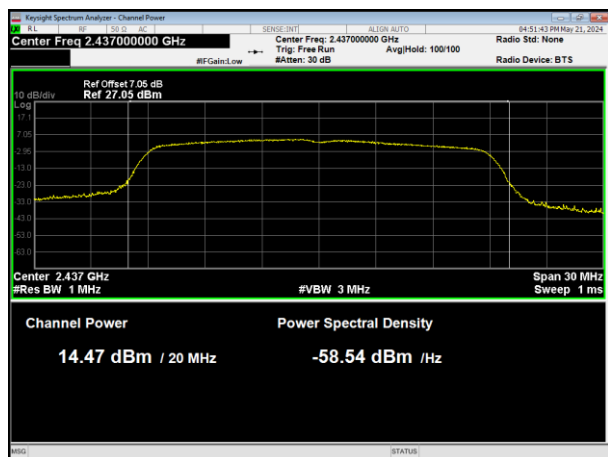
802.11n HT20



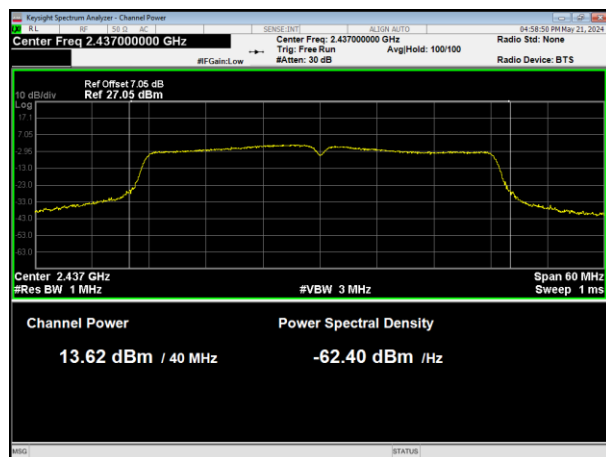
802.11n HT40



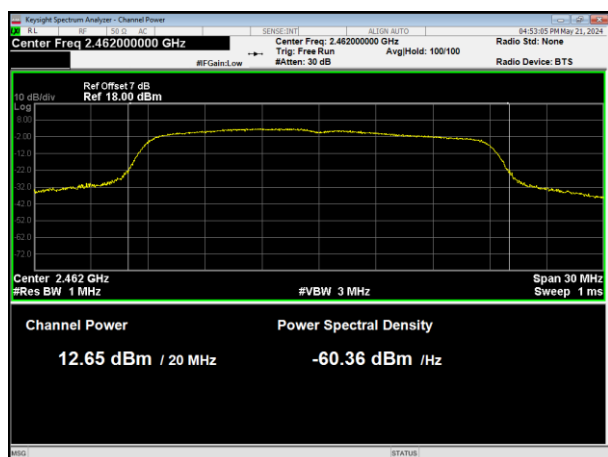
2412MHz



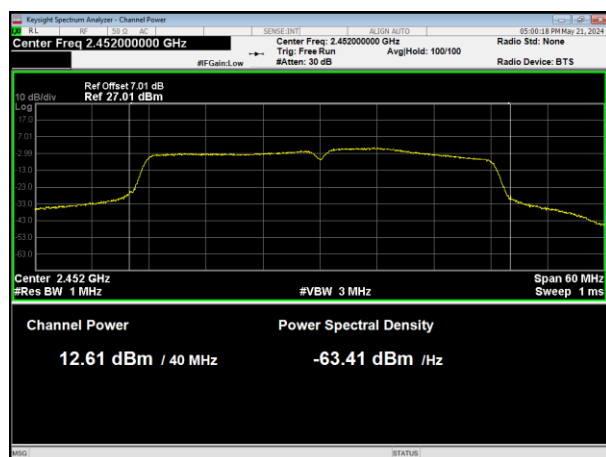
2422MHz



2437MHz



2437MHz



2462MHz

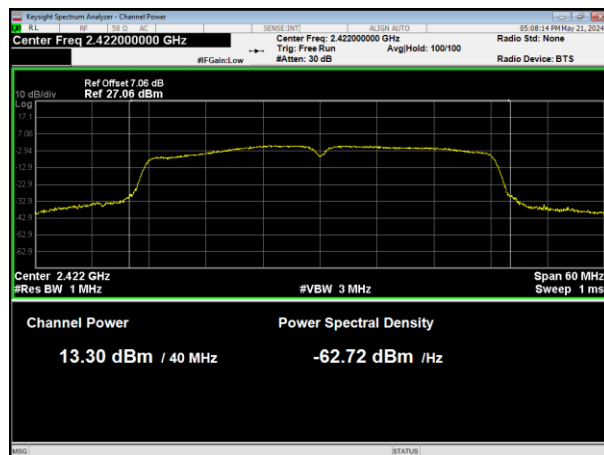
2452MHz



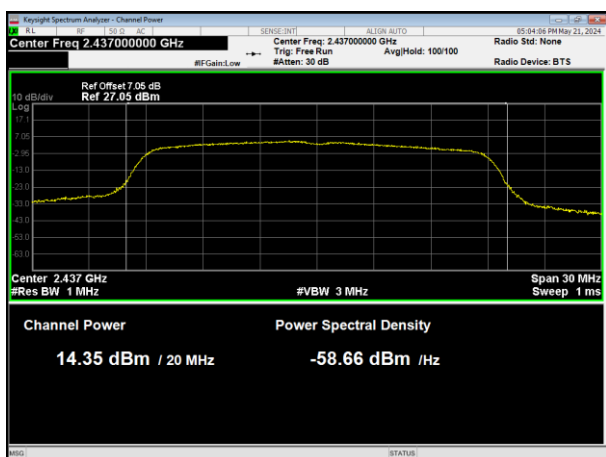
802.11ax HT20



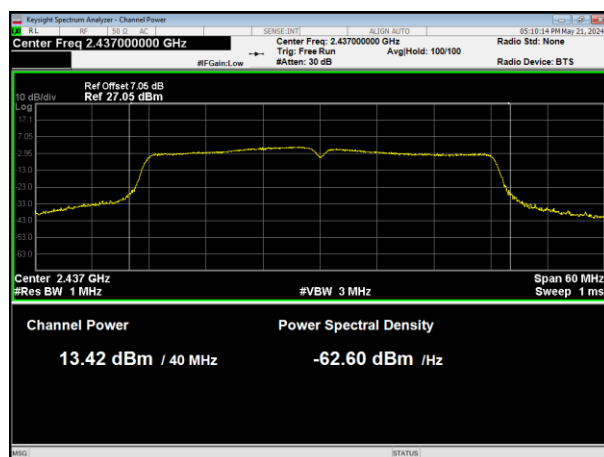
802.11ax HT40



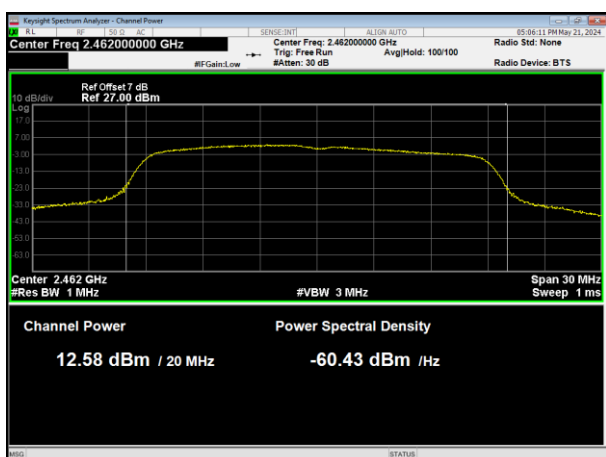
2412MHz



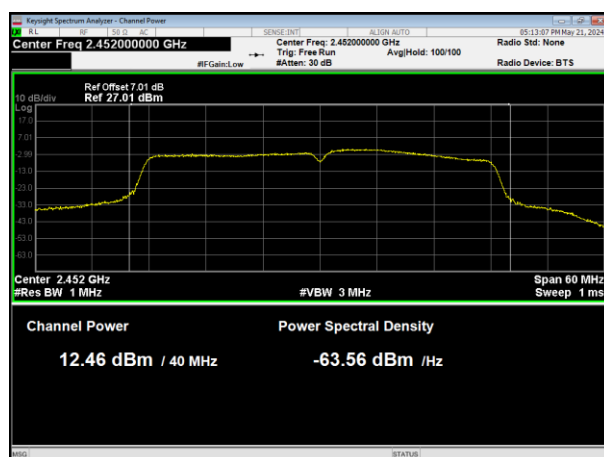
2422MHz



2437MHz



2437MHz



2462MHz

2452MHz



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	$RBW \geq 3kHz$
VB	$VBW \geq 3RBW$
Detector	power averaging (rms) or sample detector (when rms not available).
Trace	Averaging
Sweep Time	Auto

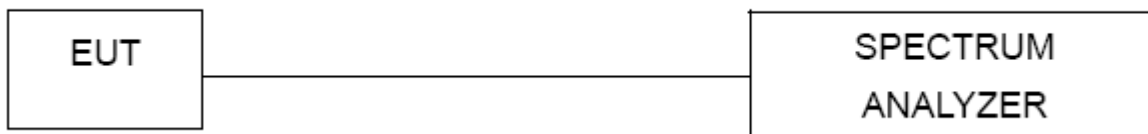
5.1.1 TEST PROCEDURE

- 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

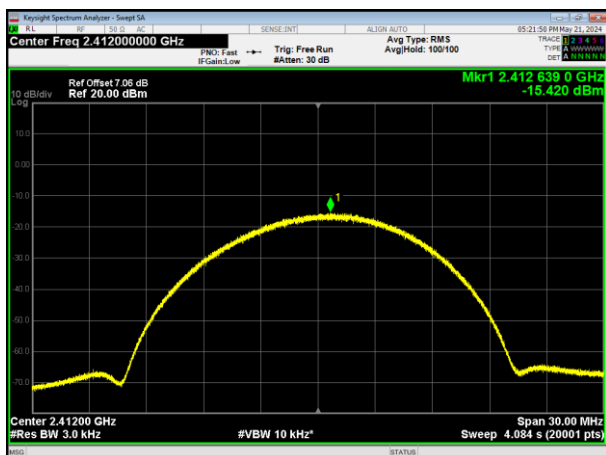
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**5.1.5 TEST RESULTS**

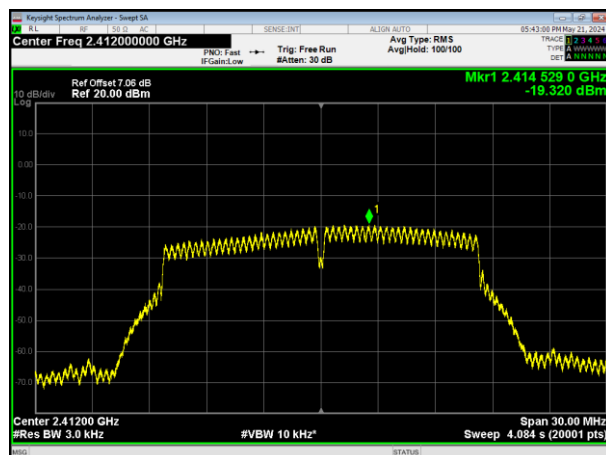
Mode	Test Channel	Reading Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	Low	-15.42	8	PASS
	Middle	-14.899	8	PASS
	High	-16.973	8	PASS
802.11g	Low	-19.32	8	PASS
	Middle	-19.181	8	PASS
	High	-20.348	8	PASS
802.11n HT20	Low	-19.231	8	PASS
	Middle	-19.786	8	PASS
	High	-20.771	8	PASS
802.11n HT40	Low	-20.912	8	PASS
	Middle	-20.683	8	PASS
	High	-20.491	8	PASS
802.11ax HT20	Low	-19.181	8	PASS
	Middle	-19.566	8	PASS
	High	-21.267	8	PASS
802.11ax HT40	Low	-22.928	8	PASS
	Middle	-22.766	8	PASS
	High	-23.283	8	PASS



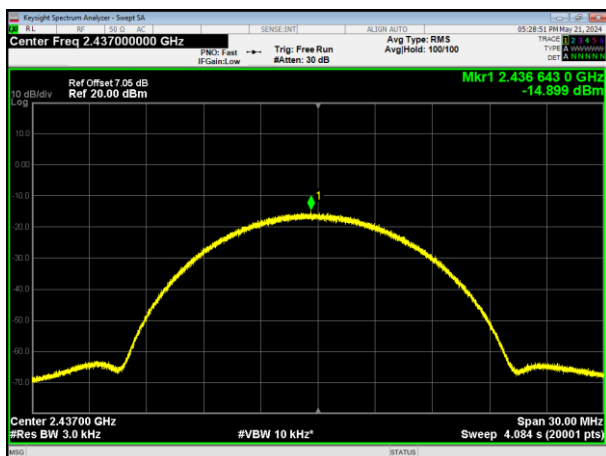
802.11b



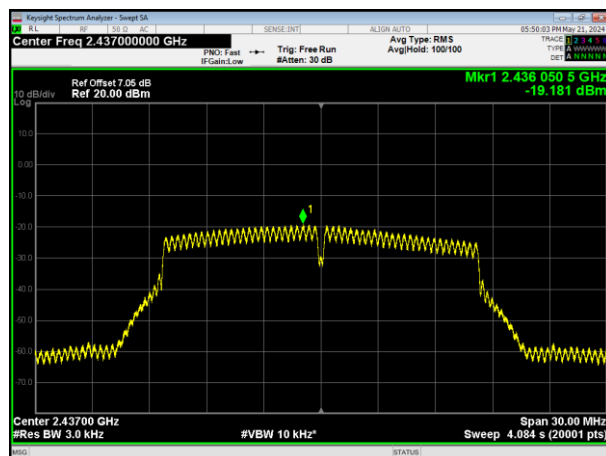
802.11g



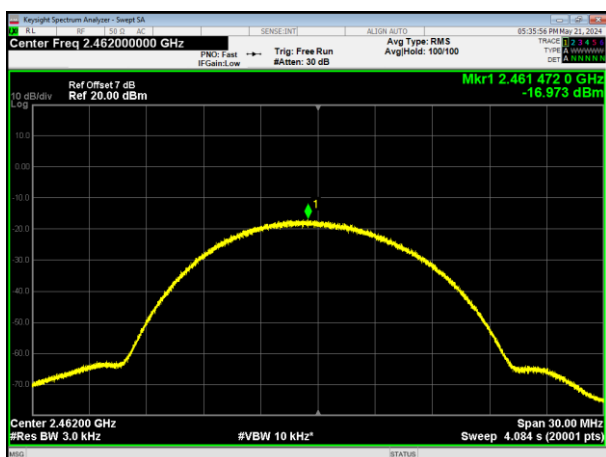
2412MHz



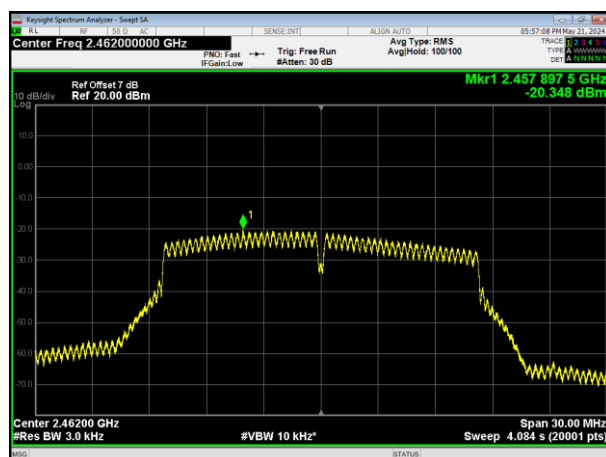
2412MHz



2437MHz



2437MHz

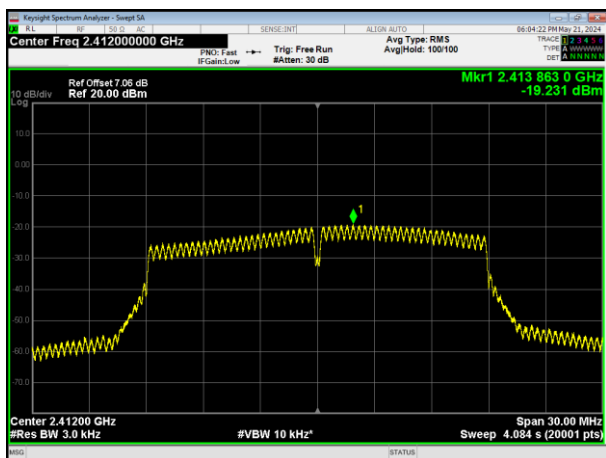


2462MHz

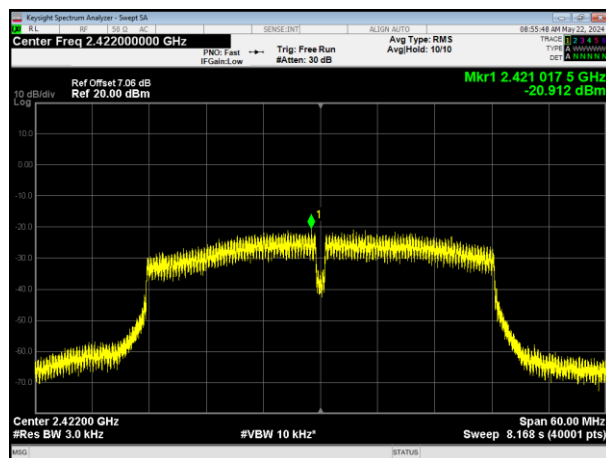
2462MHz



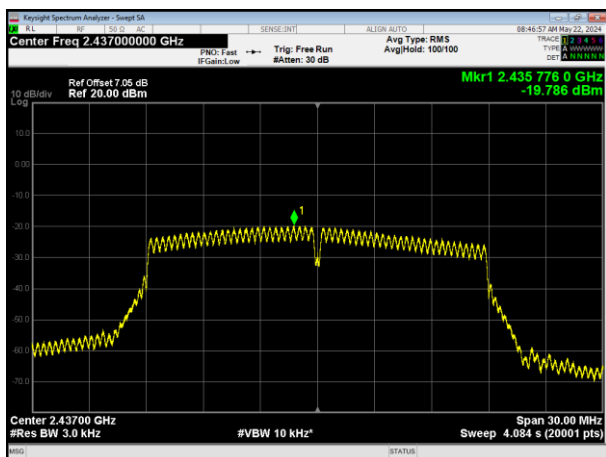
802.11n HT20



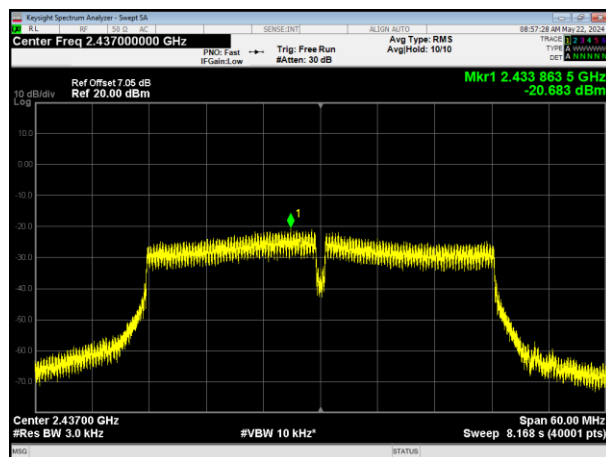
802.11n HT40



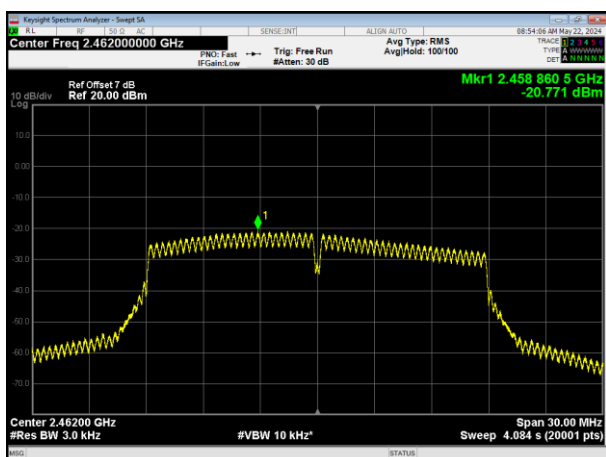
2412MHz



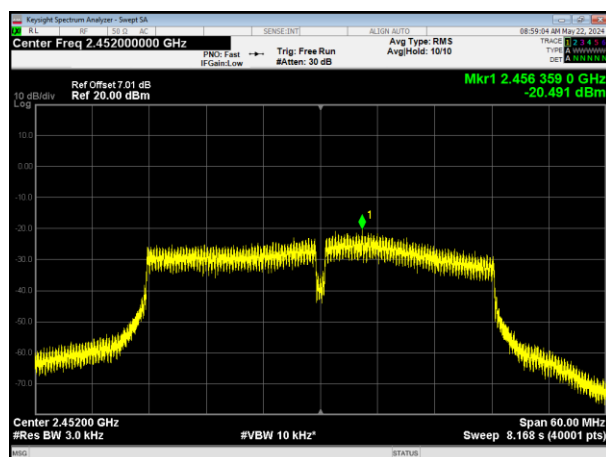
2422MHz



2437MHz



2437MHz

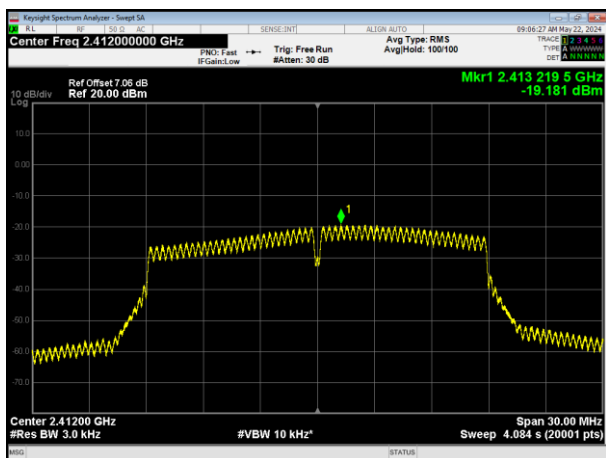


2462MHz

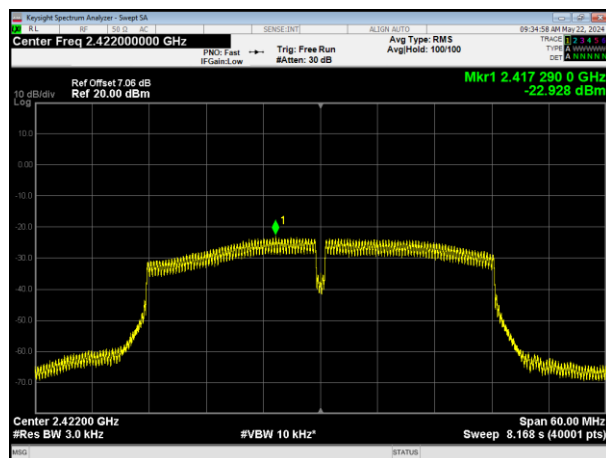
2452MHz



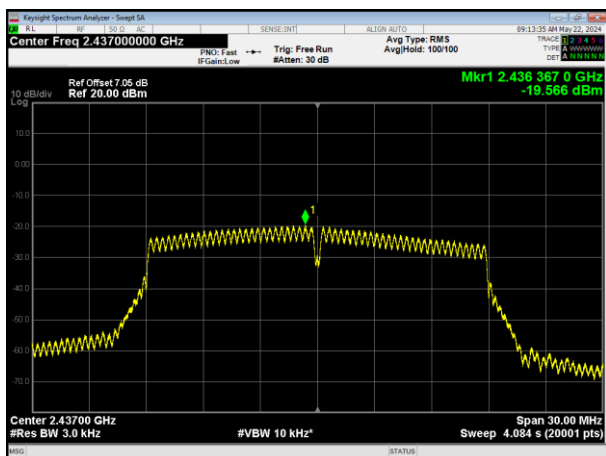
802.11ax HT20



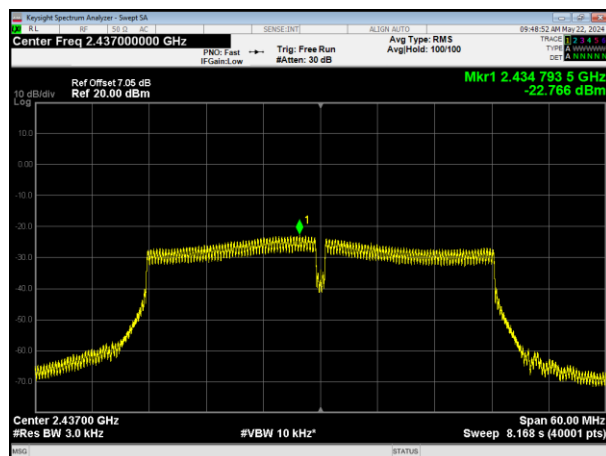
802.11ax HT40



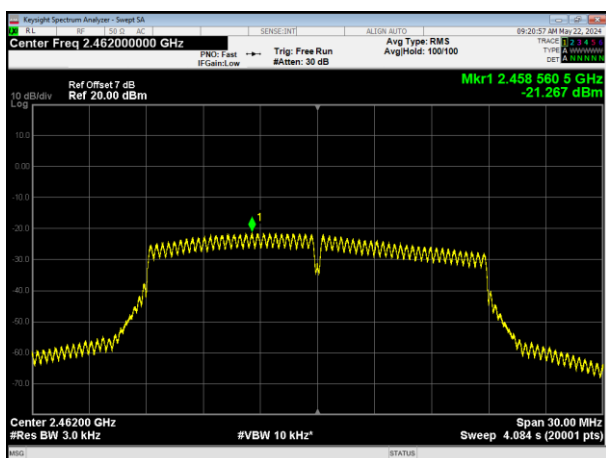
2412MHz



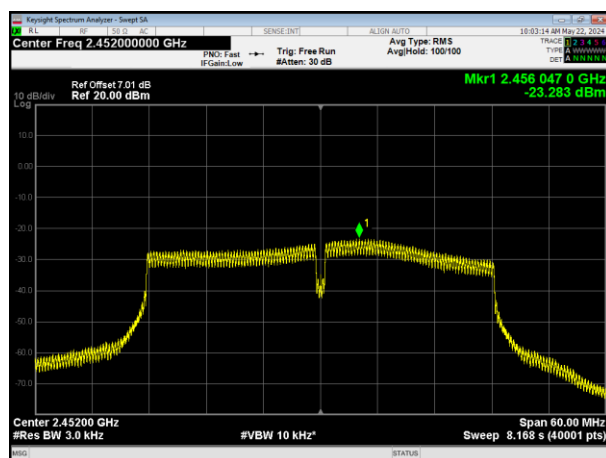
2422MHz



2437MHz



2437MHz



2462MHz

2452MHz



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	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq$ 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

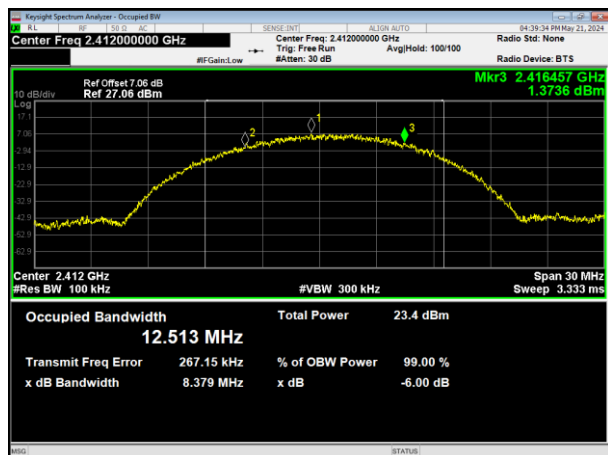
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**6.1.5 TEST RESULTS**

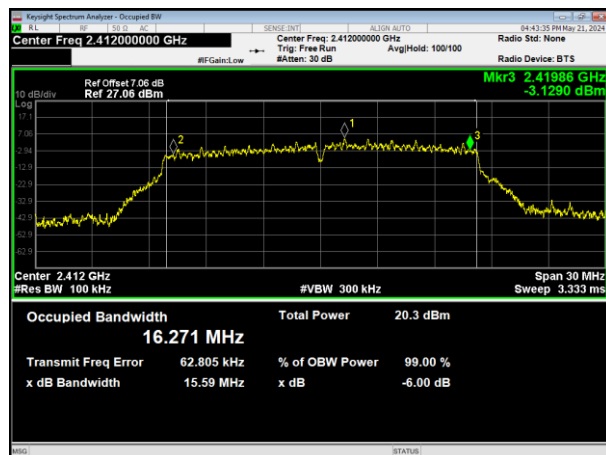
	Test Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	Low	8.379	0.5	Pass
	Middle	8.129	0.5	Pass
	High	7.15	0.5	Pass
802.11g	Low	15.594	0.5	Pass
	Middle	15.389	0.5	Pass
	High	15.434	0.5	Pass
802.11n HT20	Low	14.004	0.5	Pass
	Middle	16.031	0.5	Pass
	High	13.81	0.5	Pass
802.11n HT40	Low	28.824	0.5	Pass
	Middle	35.039	0.5	Pass
	High	33.793	0.5	Pass
802.11ax HT20	Low	11.599	0.5	Pass
	Middle	15.715	0.5	Pass
	High	15.076	0.5	Pass
802.11ax HT40	Low	28.83	0.5	Pass
	Middle	35.051	0.5	Pass
	High	32.566	0.5	Pass



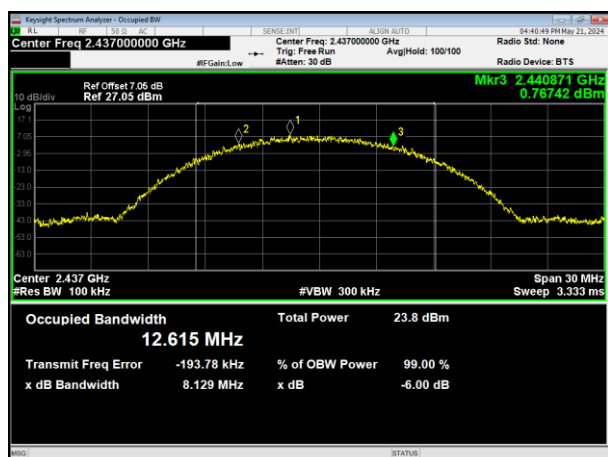
802.11b



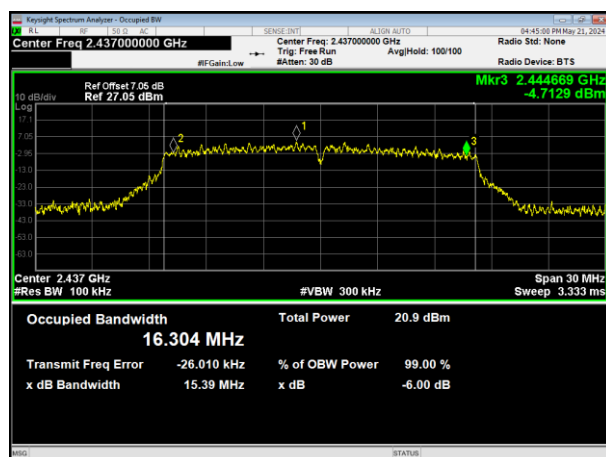
802.11g



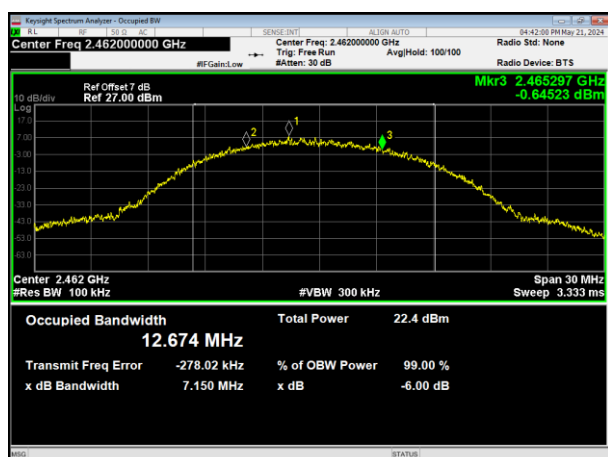
2412MHz



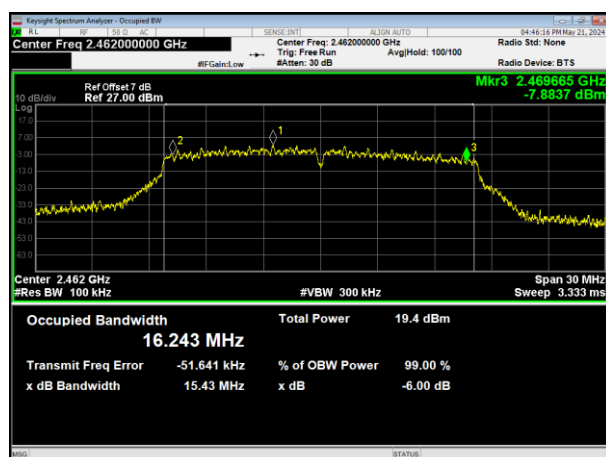
2412MHz



2437MHz



2437MHz

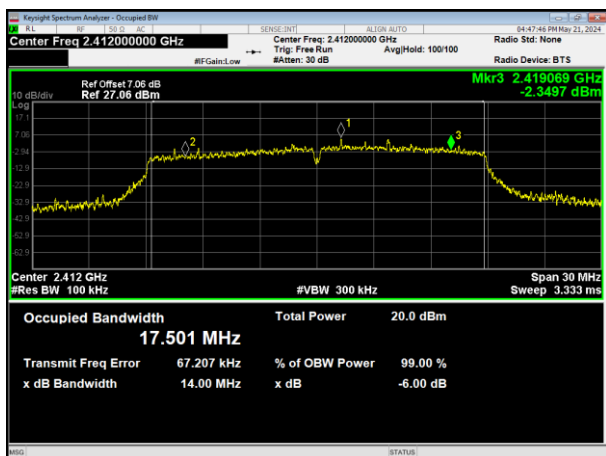


2462MHz

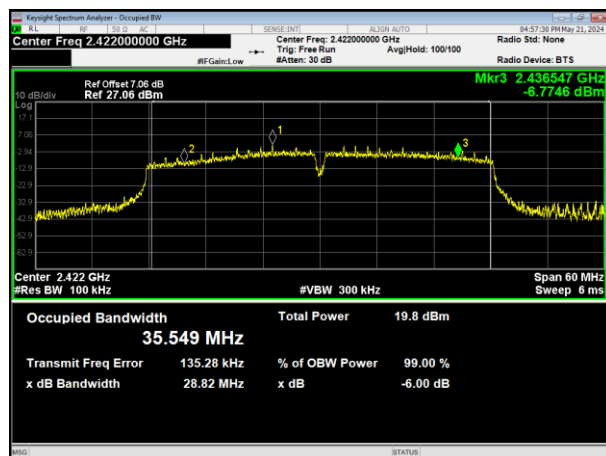
2462MHz



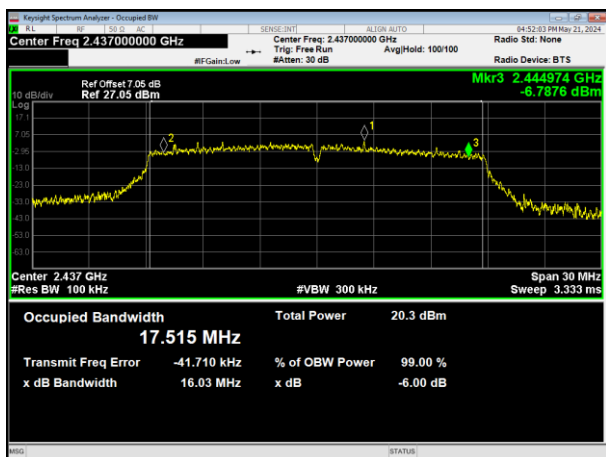
802.11n HT20



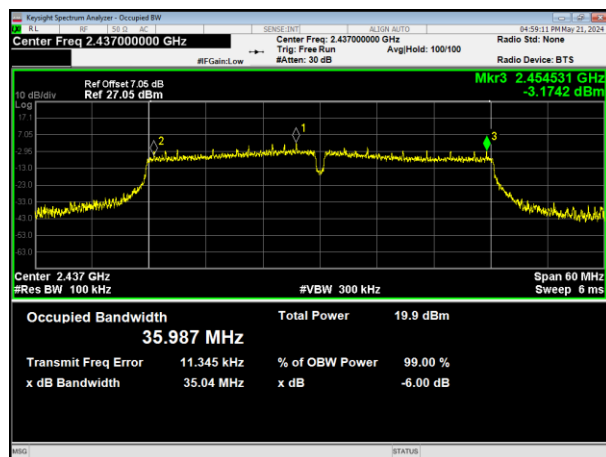
802.11n HT40



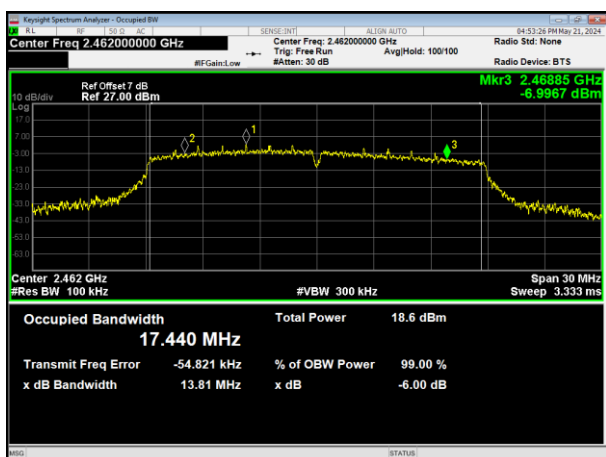
2412MHz



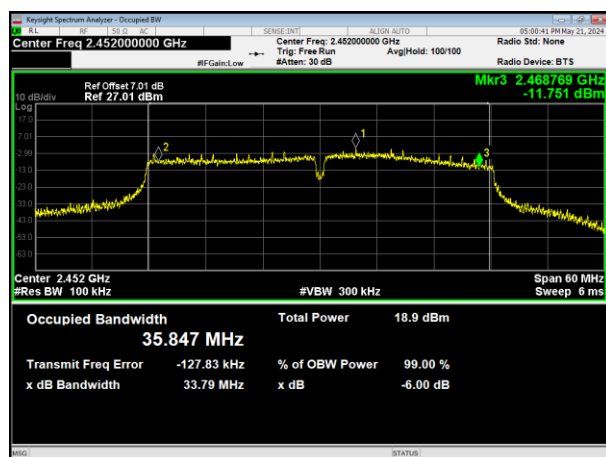
2422MHz



2437MHz



2437MHz

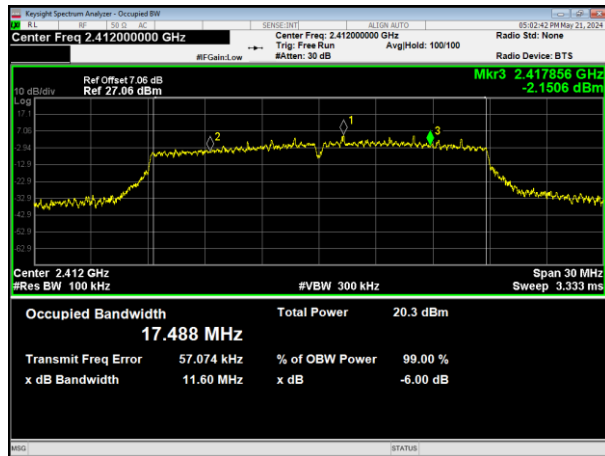


2462MHz

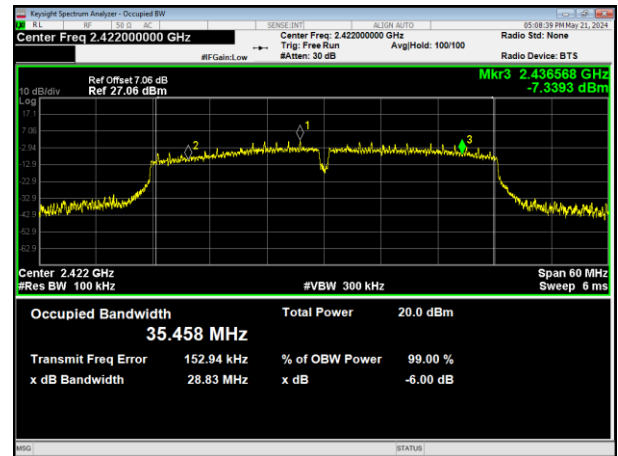
2452MHz



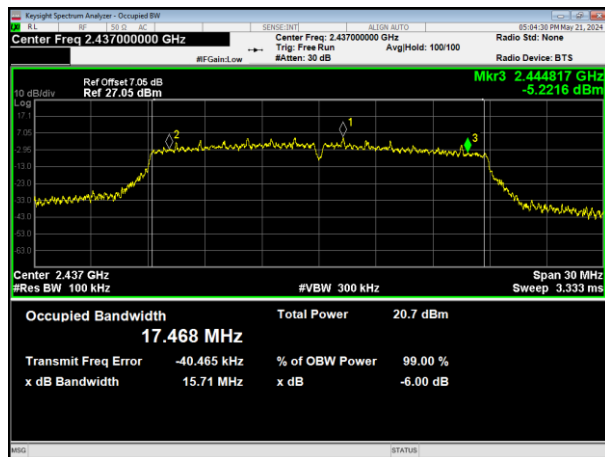
802.11ax HT20



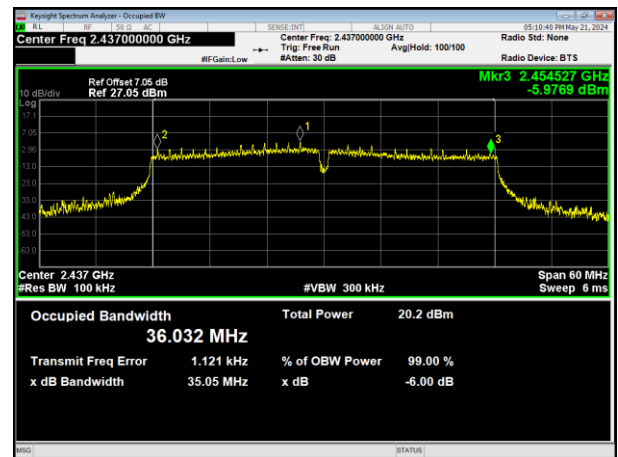
802.11ax HT40



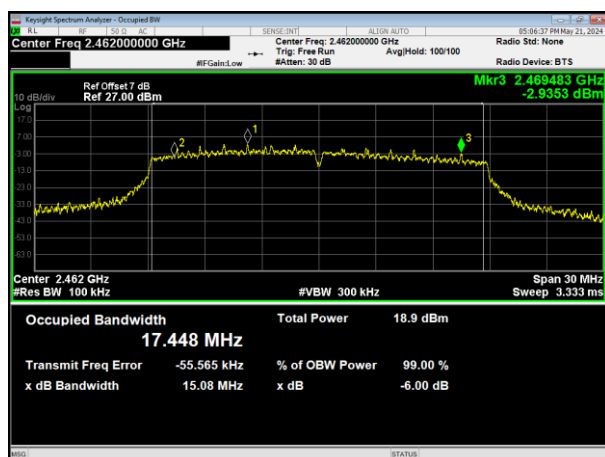
2412MHz



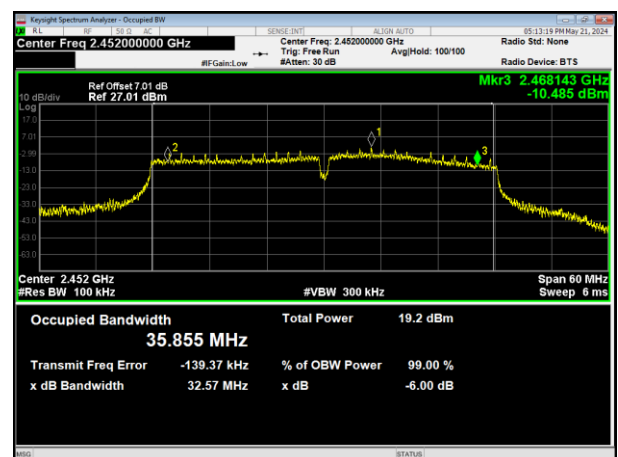
2422MHz



2437MHz



2437MHz



2462MHz

2452MHz



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 Internal Antenna, It comply with the standard requirement.

8. TEST SEUUP PHOTO

Reference to the appendix I for details.

9. EUT PHOTO

Reference to the appendix II for details.

******* END OF REPORT *******