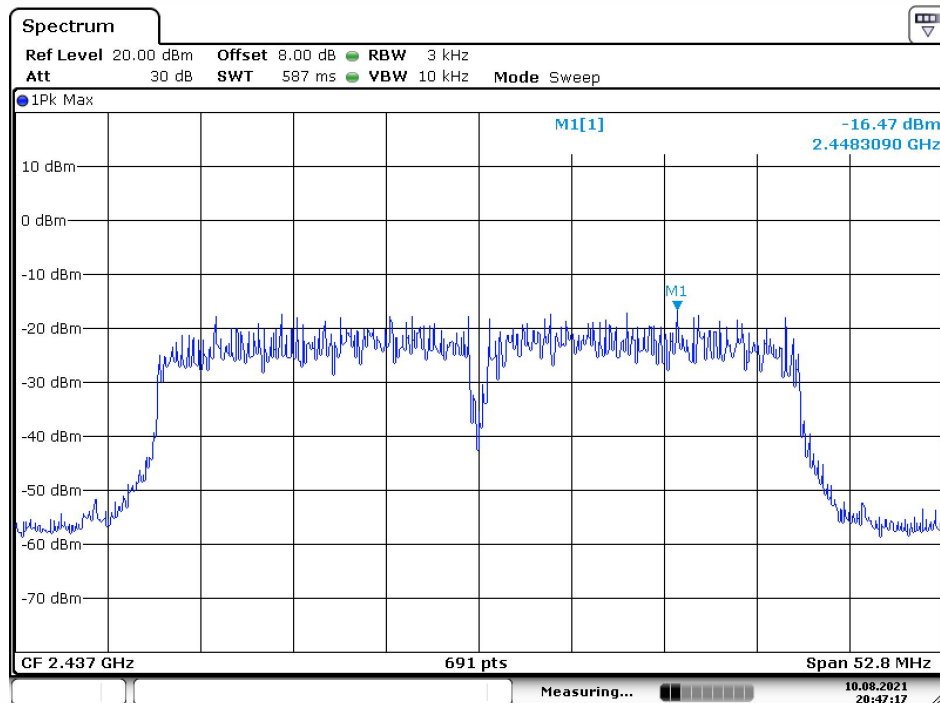


Test Model

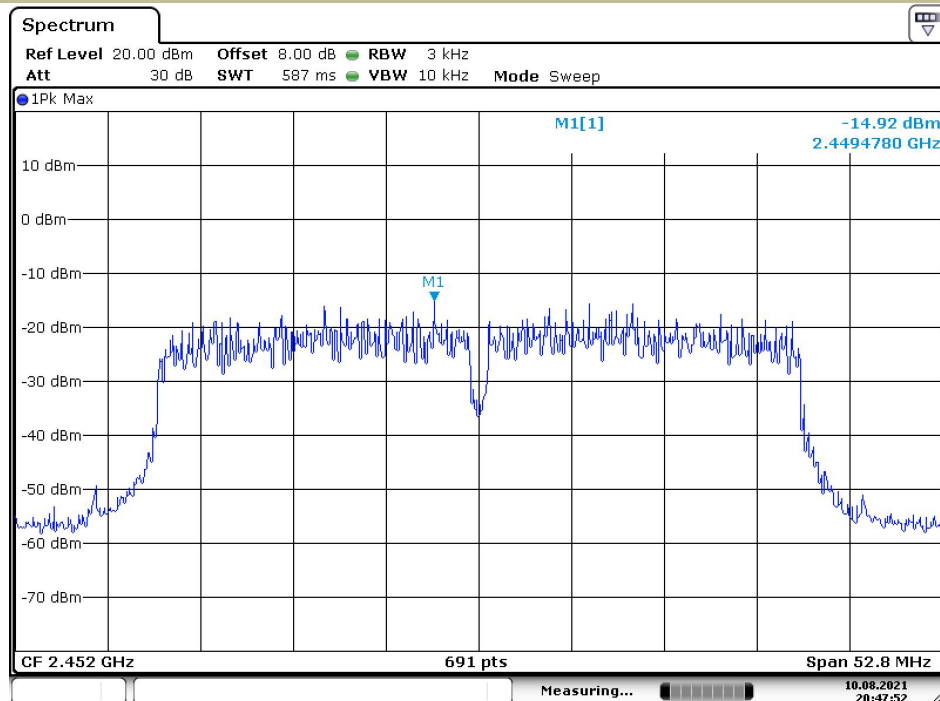
Power Spectral Density
802.11n (HT40)
Channel 6: 2437MHz



Date: 10.AUG.2021 20:47:17

Test Model

Power Spectral Density
802.11n (HT40)
Channel 9: 2452MHz



Date: 10.AUG.2021 20:47:53

7.4 UNWANTED SPURIOUS EMISSIONS

7.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

7.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

7.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

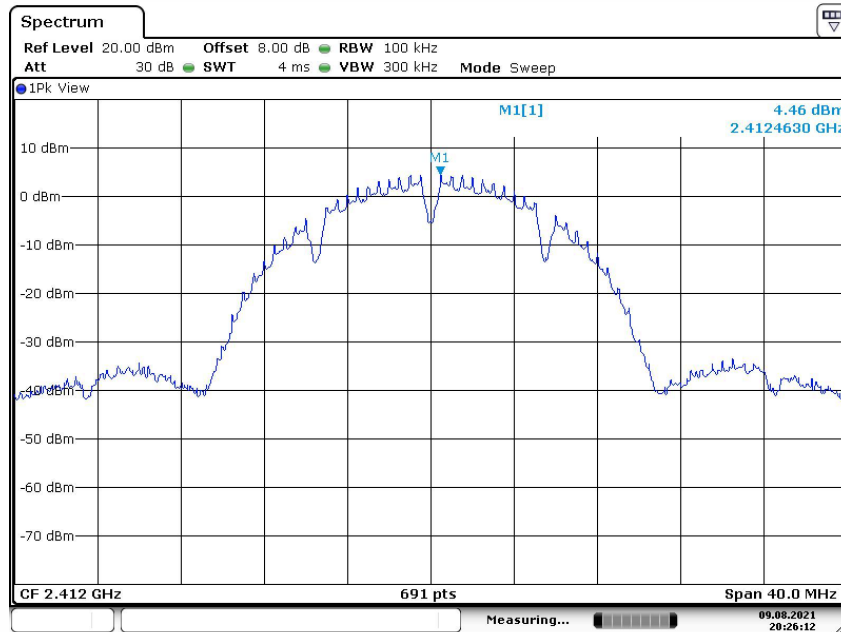
Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

7.4.5 Test Results

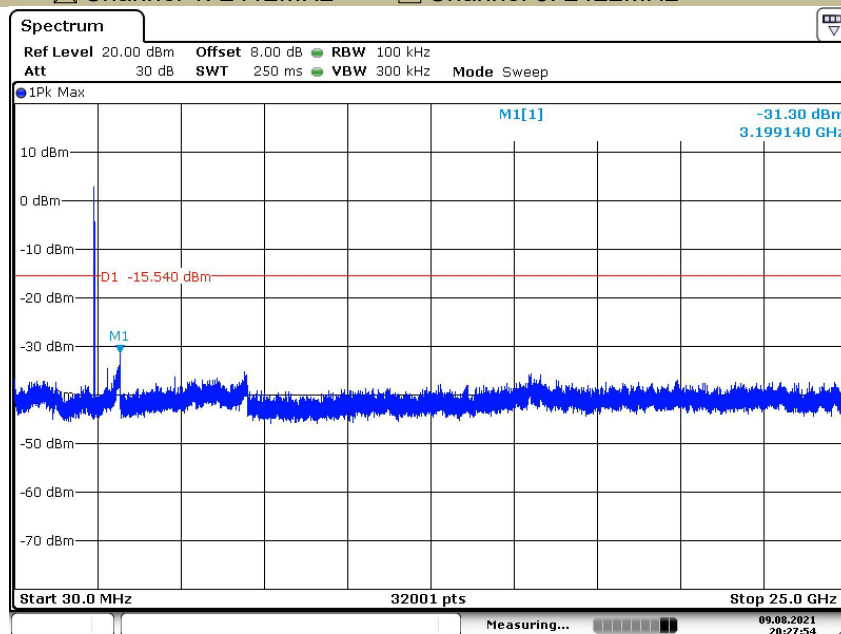
All modulation modes were tested, and the worst data is shown in the table below:

Test Model	PSD(Power Spectral Density) RBW=100kHz			
	☒ 802.11b	☐ 802.11g	☐ 802.11n(HT20)	☐ 802.11n(HT40)
	☒ Channel 1: 2412MHz	☐ Channel 3: 2422MHz		



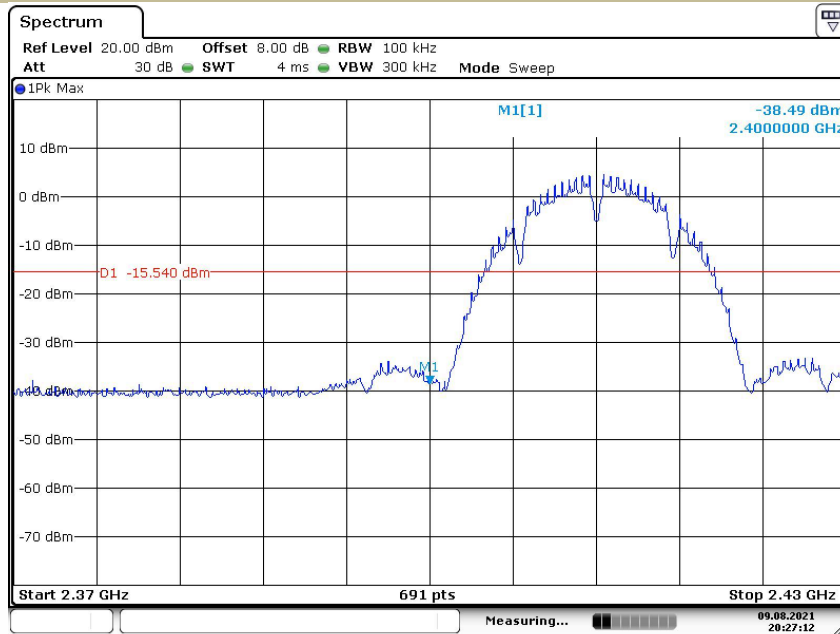
Date: 9.AUG.2021 20:26:12

Test Model	Unwanted Emissions in non-restricted frequency bands			
	☒ 802.11b	☐ 802.11g	☐ 802.11n(HT20)	☐ 802.11n(HT40)
	☒ Channel 1: 2412MHz	☐ Channel 3: 2422MHz		



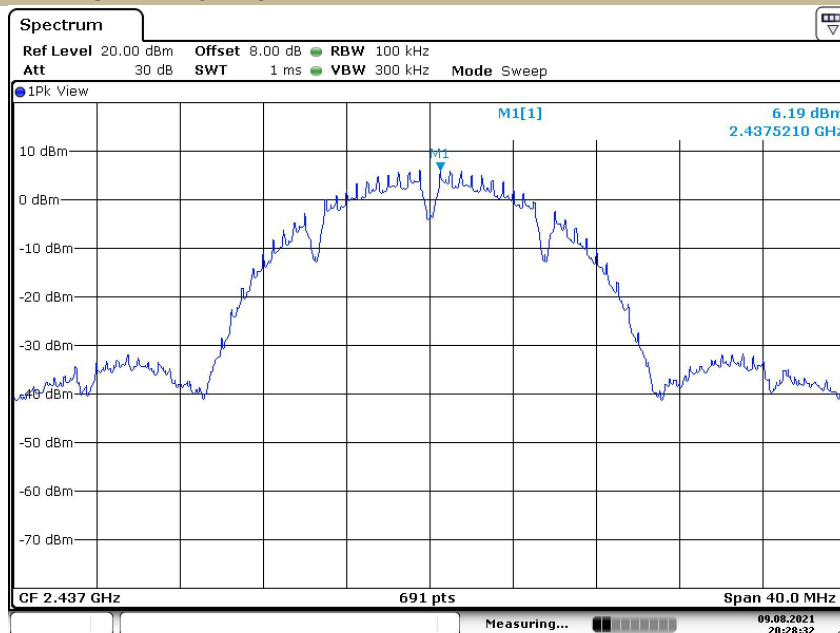
Date: 9.AUG.2021 20:27:54

Test Model ☒ 802.11b ☐ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 1: 2412MHz ☐ Channel 3: 2422MHz



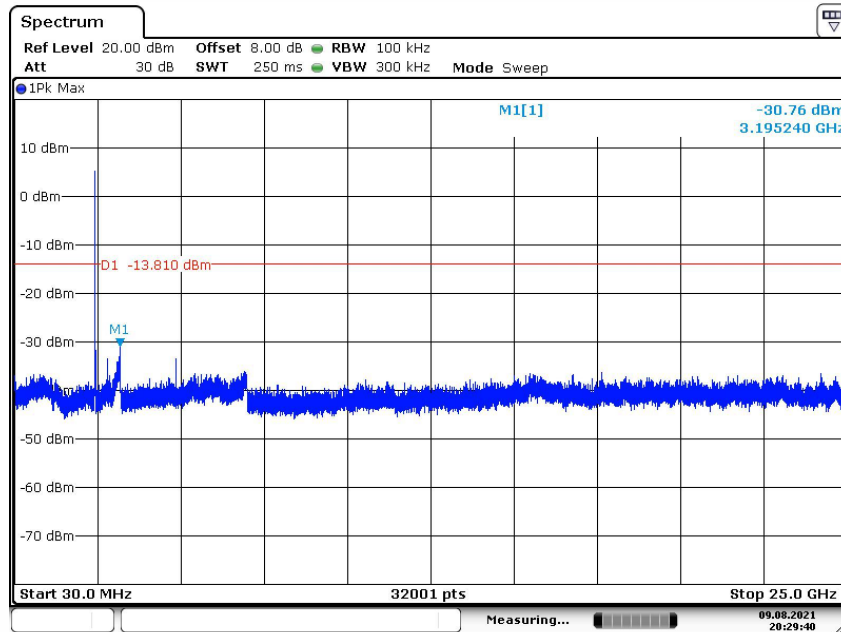
Date: 9.AUG.2021 20:27:13

Test Model ☒ 802.11b ☐ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)
PSD(Power Spectral Density) RBW=100kHz
Channel 6: 2437MHz



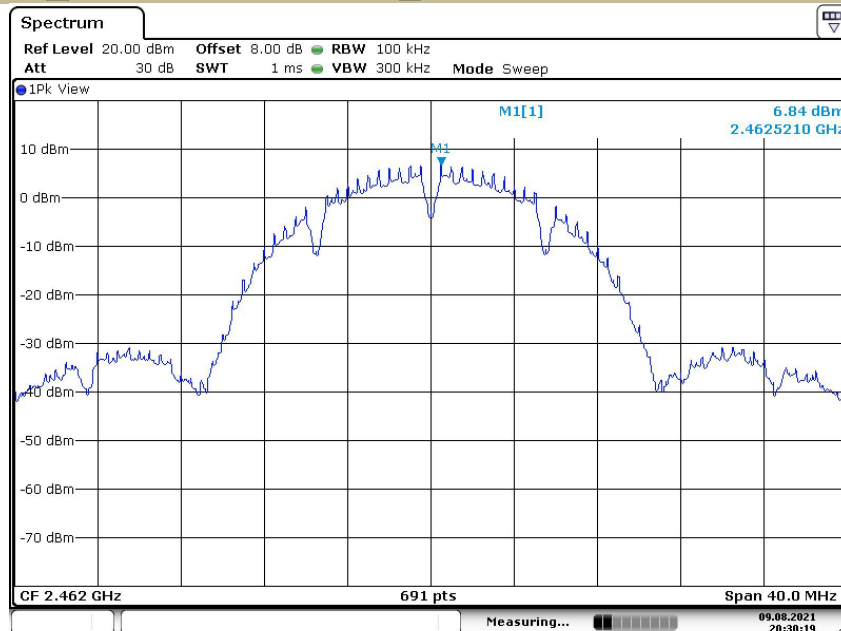
Date: 9.AUG.2021 20:28:33

Test Model ☒ 802.11b ☐ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)
Channel 6: 2437MHz



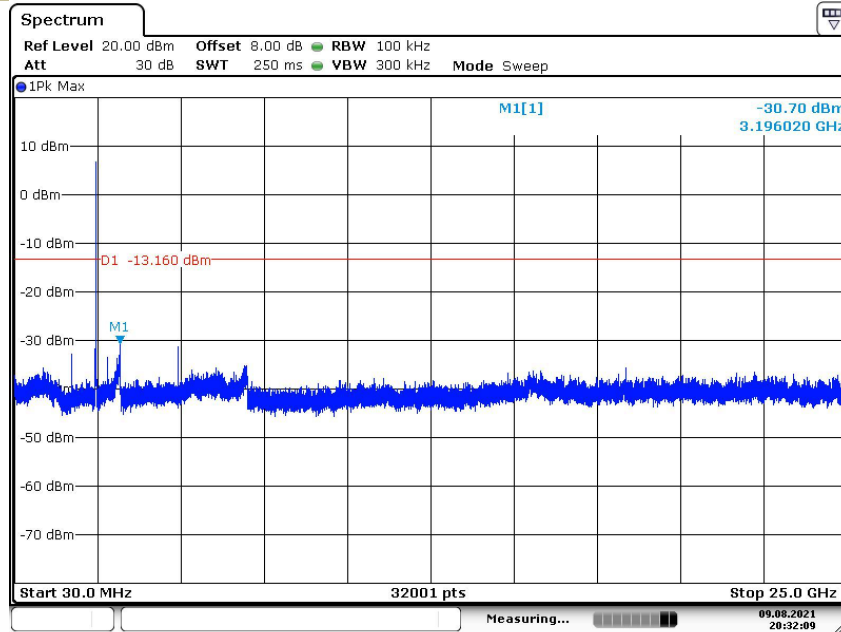
Date: 9.AUG.2021 20:29:41

Test Model ☒ 802.11b ☐ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz



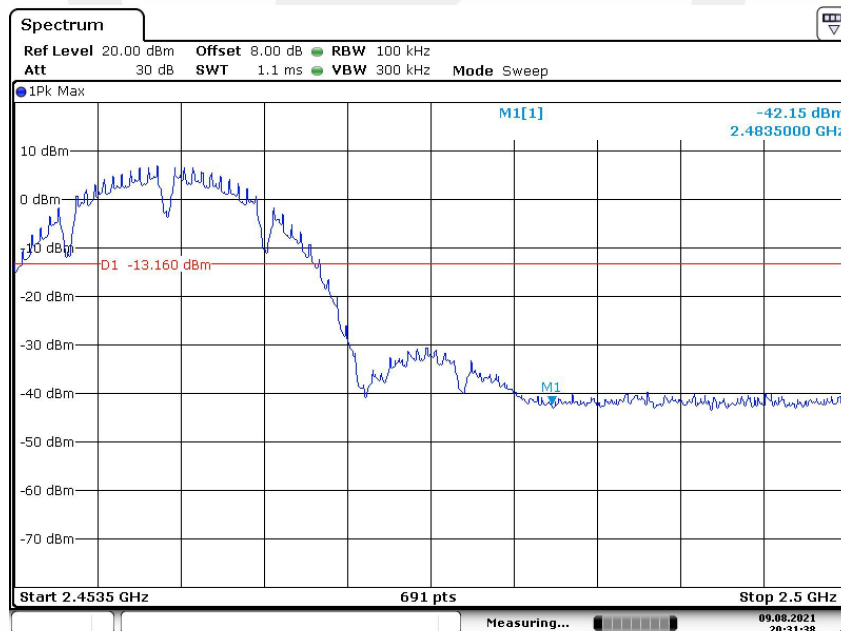
Date: 9.AUG.2021 20:30:19

Test Model ☒ 802.11b ☐ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz



Date: 9.AUG.2021 20:32:09

Test Model ☒ 802.11b ☐ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz



Date: 9.AUG.2021 20:31:38

7.5 RADIATED EMISSION

7.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

7.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.205 the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

7.5.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

7.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 1GHz:

The EUT was placed on a turn table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Span = wide enough to fully capture the emission being measured
RBW = 100 kHz for

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 30MHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 9kHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 150KHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 200Hz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit. Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

7.5.5 Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit 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

- Spurious Emission Above 1GHz(1GHz to 25GHz)
- All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result recorded was report as below:

Test mode: 802.11 b Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4824.984	V	53.52	35.69	74.00	54.00	-20.48	-18.31
14523.4	V	55.89	38.58	74.00	54.00	-18.11	-15.42
18000	V	62.89	44.93	74.00	54.00	-11.11	-9.07
4830.217	H	58.31	43.25	74.00	54.00	-15.69	-10.75
14491.95	H	55.76	39.27	74.00	54.00	-18.24	-14.73
18000	H	63.37	45.69	74.00	54.00	-10.63	-8.31

Test mode: 802.11 b Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4884.62	V	55.01	38.66	74.00	54.00	-18.99	-15.34
14460.57	V	58.28	42.35	74.00	54.00	-15.72	-11.65
18000	V	65	49.63	74.00	54.00	-9	-4.37
4884.62	H	60.44	52.12	74.00	54.00	-13.56	-1.88
14486.72	H	55.75	38.63	74.00	54.00	-18.25	-35.37
17928.6	H	62.09	45.19	74.00	54.00	-11.91	-28.81

Test mode: 802.11 b Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4925.379	V	54.15	48.63	74.00	54.00	-19.85	-5.37
12109.97	V	56.31	40.28	74.00	54.00	-17.69	-13.72
17986.99	V	65.94	48.63	74.00	54.00	-8.06	-5.37
4920.044	H	58.51	52.63	74.00	54.00	-15.49	-1.37
14299.51	H	57.86	40.29	74.00	54.00	-16.14	-13.71
18000	H	65.56	48.63	74.00	54.00	-8.44	-5.37

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz
All modes 2.4G 802.11b/g/n have been tested, and the worst result recorded was report as below:

Test mode: 802.11 b Frequency: Channel 1: 2412MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2388.060	H	45.59	74	28.93	54
2384.630	V	45.41	74	28.33	54

Test mode: 802.11 b Frequency: Channel 11: 2462MHz

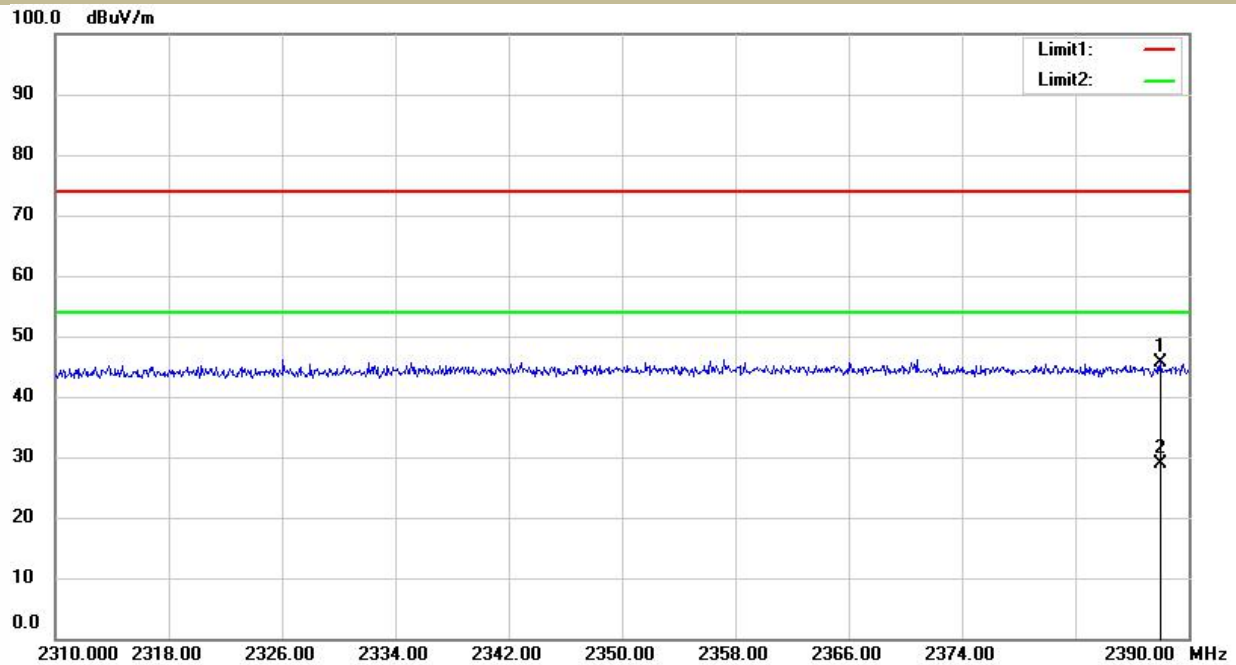
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.651	H	48.07	74	32.63	54
2485.618	V	51.18	74	35.29	54

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Spurious Emission in Restricted Band 2310-2390MHz

Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11n(HT20)	☐ 802.11n(HT40)
	☒ Channel 1:2412MHz	☐ Channel 3: 2422MHz	Polarity: H	

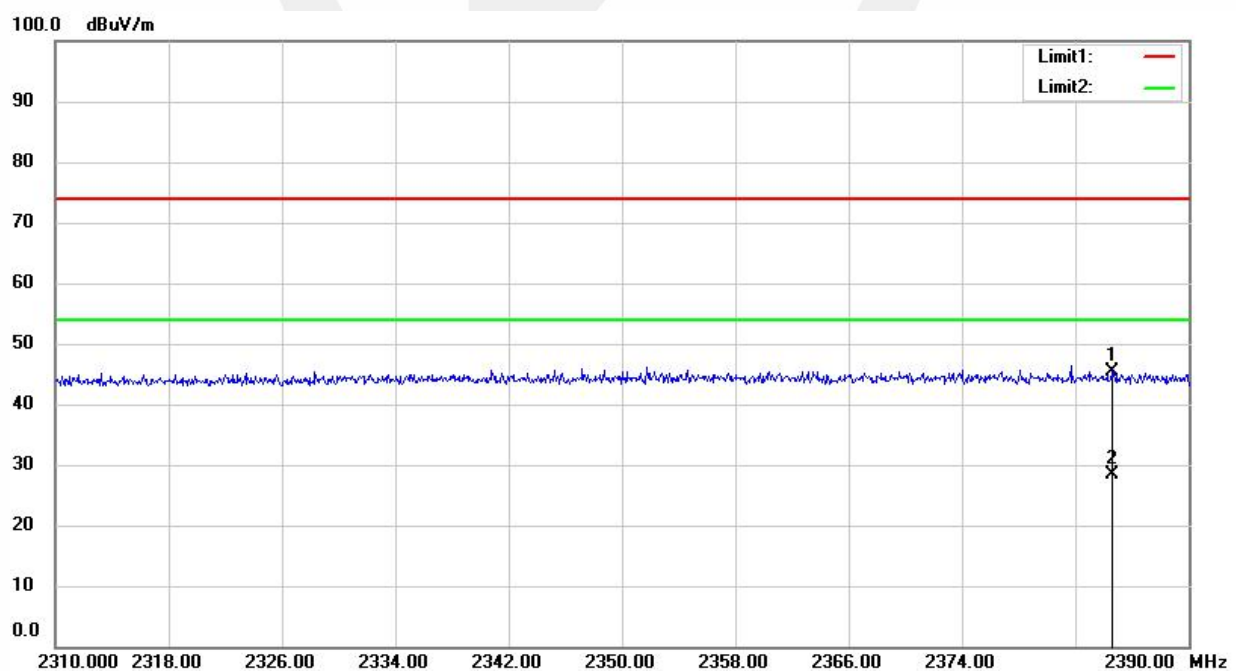
VBW=3MHz

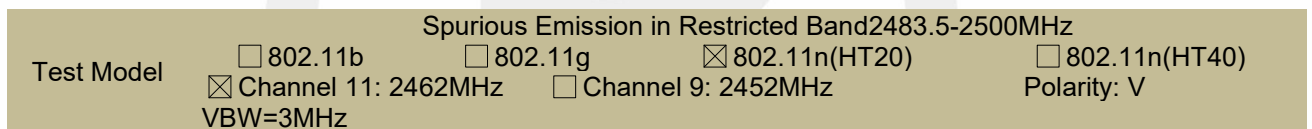
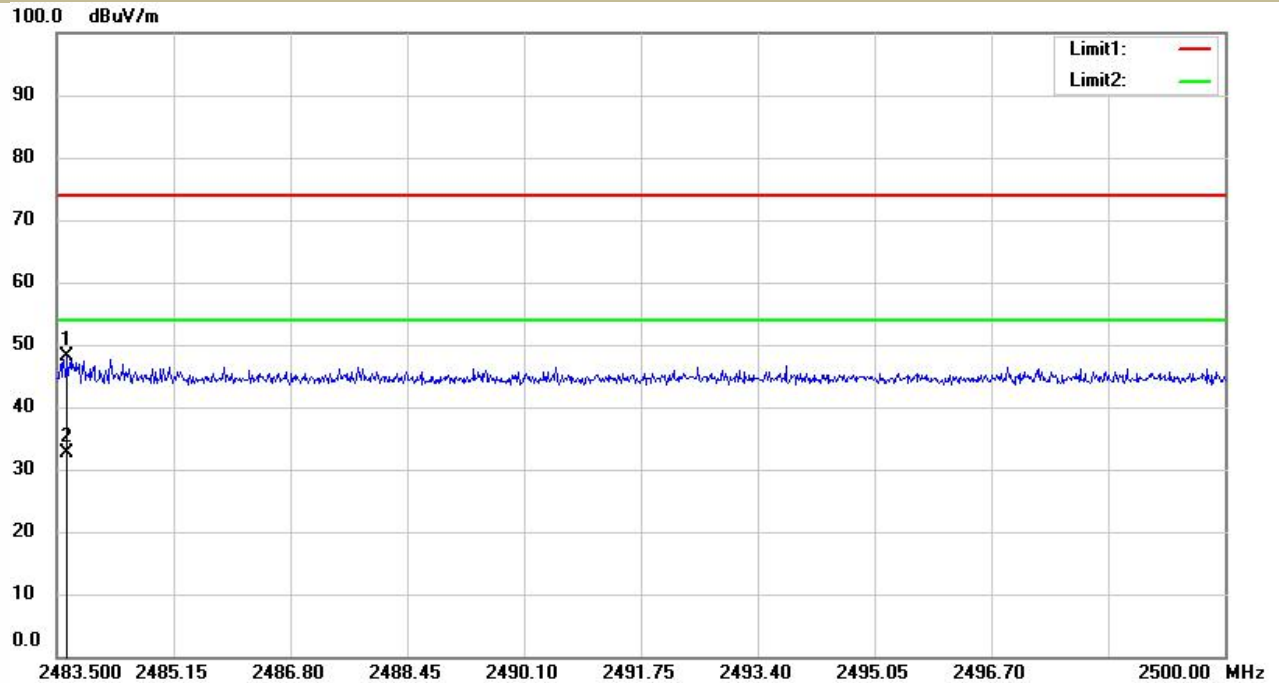
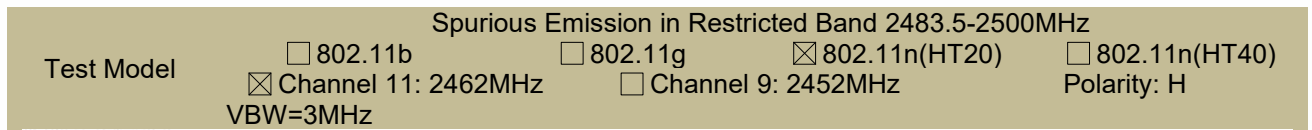


Spurious Emission in Restricted Band 2310-2390MHz

Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11n(HT20)	☐ 802.11n(HT40)
	☒ Channel 1:2412MHz	☐ Channel 3: 2422MHz	Polarity: V	

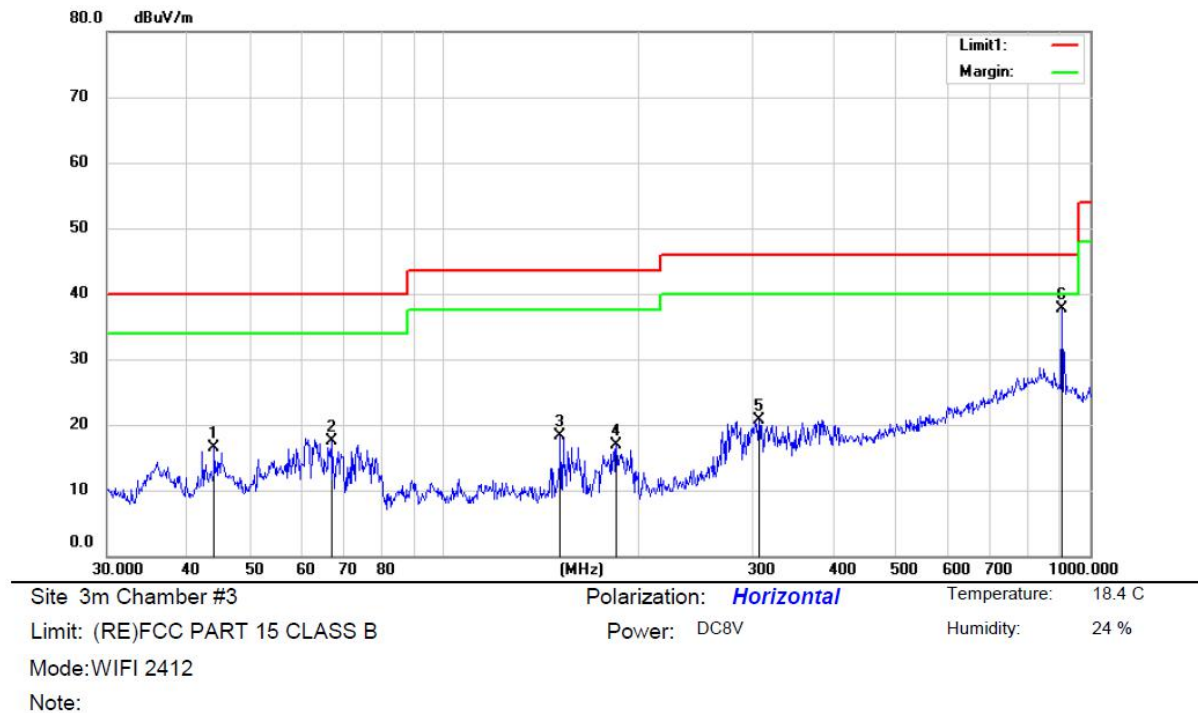
VBW=3MHz



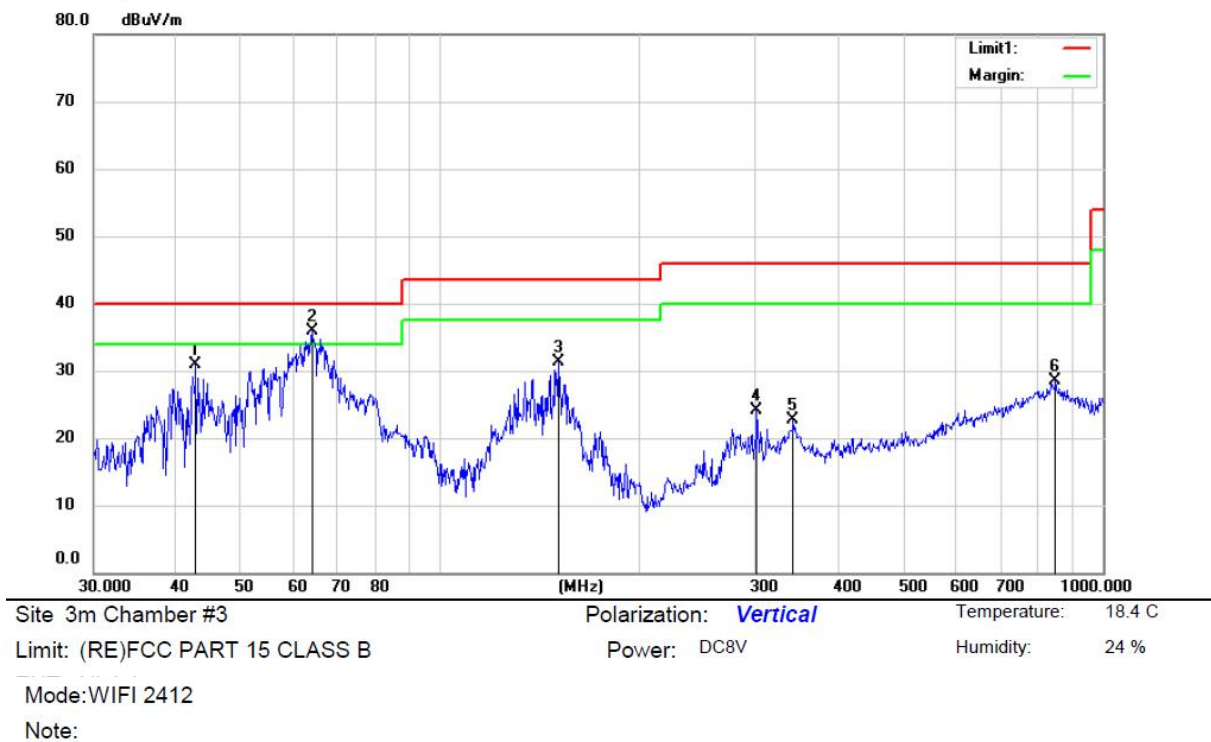


■ Spurious Emission below 1GHz (30MHz to 1GHz)

All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11n20 recorded was report as below:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		44.0430	31.84	-15.43	16.41	40.00	-23.59	QP		
2		66.7325	32.73	-15.22	17.51	40.00	-22.49	QP		
3		151.0666	35.56	-17.17	18.39	43.50	-25.11	QP		
4		184.6516	33.95	-17.07	16.88	43.50	-26.62	QP		
5		307.6964	33.65	-12.98	20.67	46.00	-25.33	QP		
6	*	904.8945	38.34	-0.62	37.72	46.00	-8.28	QP		



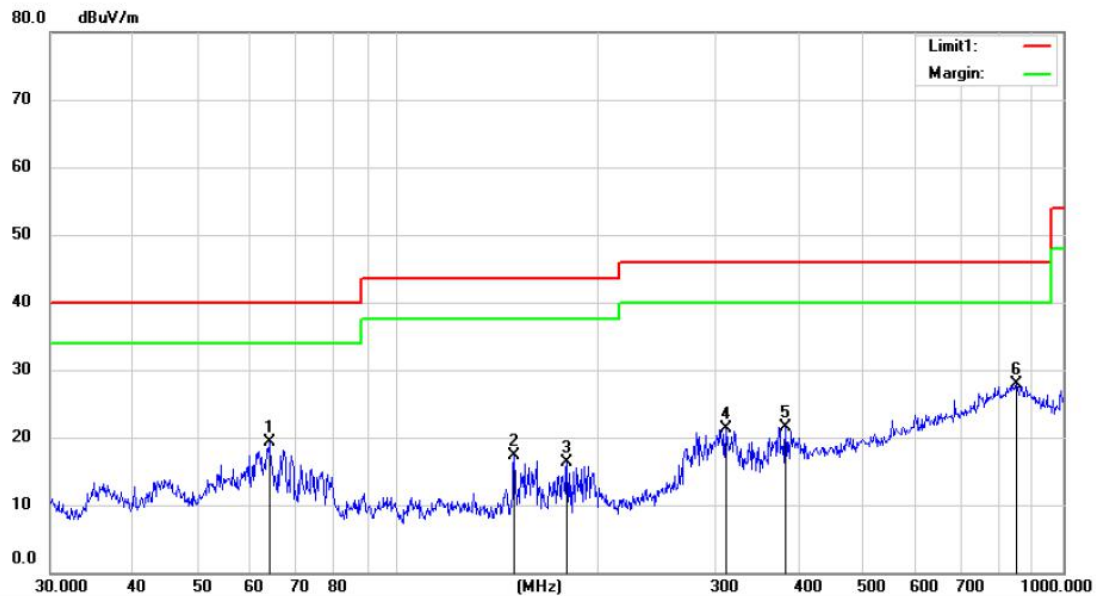
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		42.8434	46.39	-15.55	30.84	40.00	-9.16	QP		
2	*	64.0388	50.74	-14.82	35.92	40.00	-4.08	QP		
3		150.9342	48.55	-17.17	31.38	43.50	-12.12	QP		
4		301.1582	36.88	-12.83	24.05	46.00	-21.95	QP		
5		341.5293	34.10	-11.34	22.76	46.00	-23.24	QP		
6		848.0563	27.52	1.08	28.60	46.00	-17.40	QP		



Site: 3m Chamber #3
 Limit: (RE)FCC PART 15 CLASS B
 Mode: WIFI 2437
 Note:

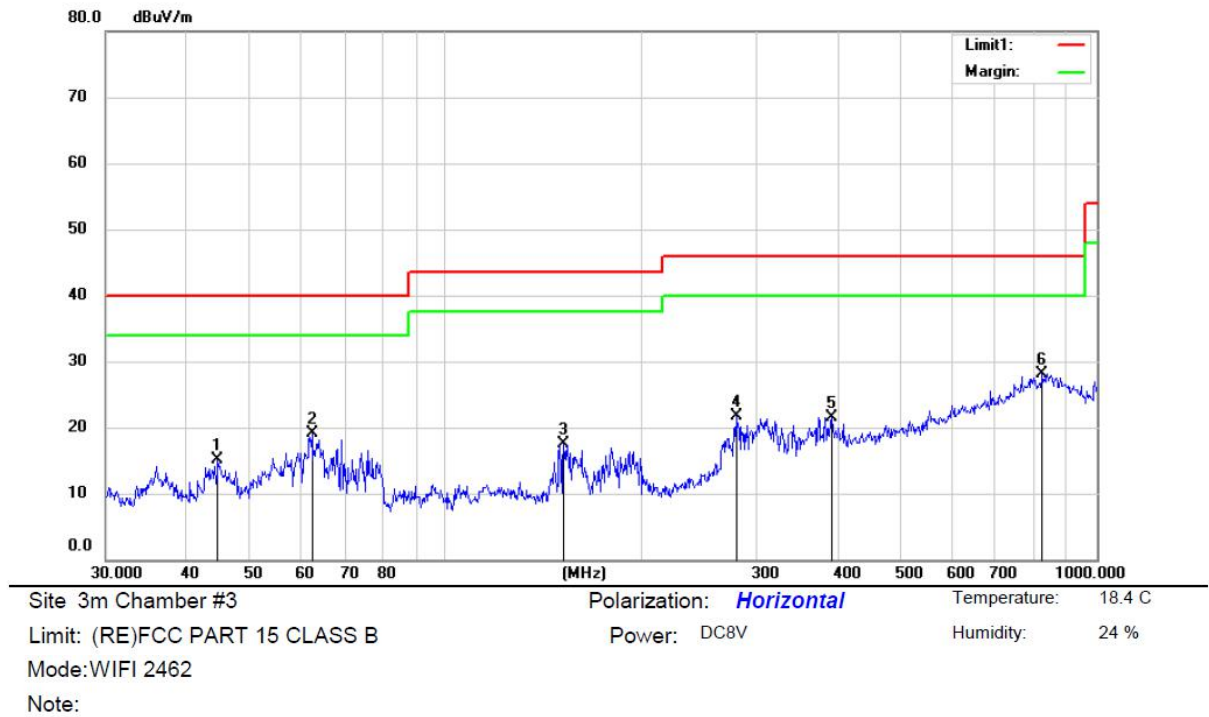
Polarization: **Vertical**
 Power: DC8V
 Temperature: 18.4 C
 Humidity: 24 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		42.3951	45.95	-15.59	30.36	40.00	-9.64	QP		
2	*	64.2074	49.43	-14.82	34.61	40.00	-5.39	QP		
3		151.2652	48.35	-17.18	31.17	43.50	-12.33	QP		
4		299.7097	36.15	-12.83	23.32	46.00	-22.68	QP		
5		336.1825	33.54	-11.61	21.93	46.00	-24.07	QP		
6		910.4645	32.04	-0.70	31.34	46.00	-14.66	QP		

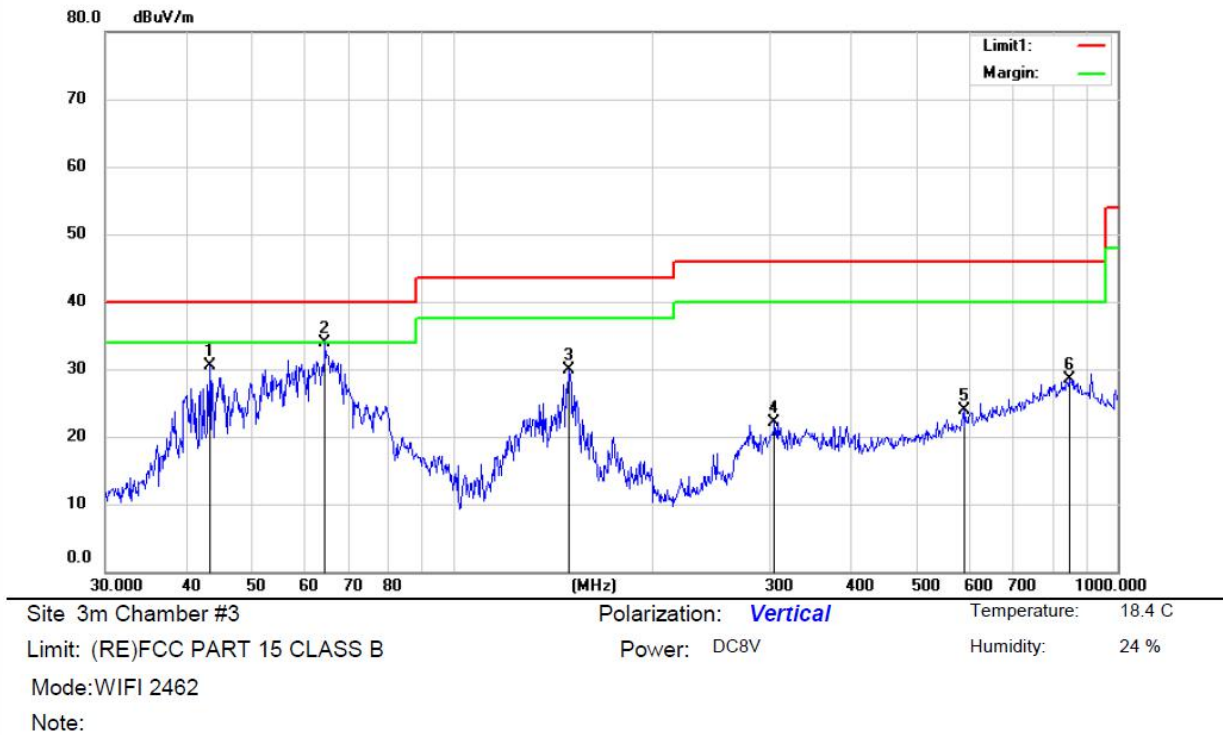


Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 18.4 C
 Limit: (RE)FCC PART 15 CLASS B Power: DC8V Humidity: 24 %
 Mode:WIFI 2437
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		64.1231	34.06	-14.81	19.25	40.00	-20.75	QP		
2		149.6168	34.41	-17.17	17.24	43.50	-26.26	QP		
3		179.7011	33.86	-17.46	16.40	43.50	-27.10	QP		
4		311.7692	34.28	-12.94	21.34	46.00	-24.66	QP		
5		382.5880	31.64	-10.10	21.54	46.00	-24.46	QP		
6	*	853.6505	27.17	0.79	27.96	46.00	-18.04	QP		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		44.7238	30.45	-15.36	15.09	40.00	-24.91	peak		
2		62.3767	33.80	-14.76	19.04	40.00	-20.96	peak		
3		151.8632	34.66	-17.20	17.46	43.50	-26.04	peak		
4		279.7785	35.42	-13.63	21.79	46.00	-24.21	peak		
5		391.5798	31.33	-9.74	21.59	46.00	-24.41	peak		
6	*	826.0440	27.56	0.50	28.06	46.00	-17.94	peak		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		43.0882	45.93	-15.52	30.41	40.00	-9.59	QP		
2	*	64.3202	48.65	-14.82	33.83	40.00	-6.17	QP		
3		149.9451	47.01	-17.15	29.86	43.50	-13.64	QP		
4		305.2783	34.95	-12.93	22.02	46.00	-23.98	QP		
5		586.8437	29.62	-5.66	23.96	46.00	-22.04	QP		
6		846.1998	27.42	1.07	28.49	46.00	-17.51	QP		

7.6 CONDUCTED EMISSION TEST

7.6.1 Applicable Standard

According to FCC Part 15.207(a)

7.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.6.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

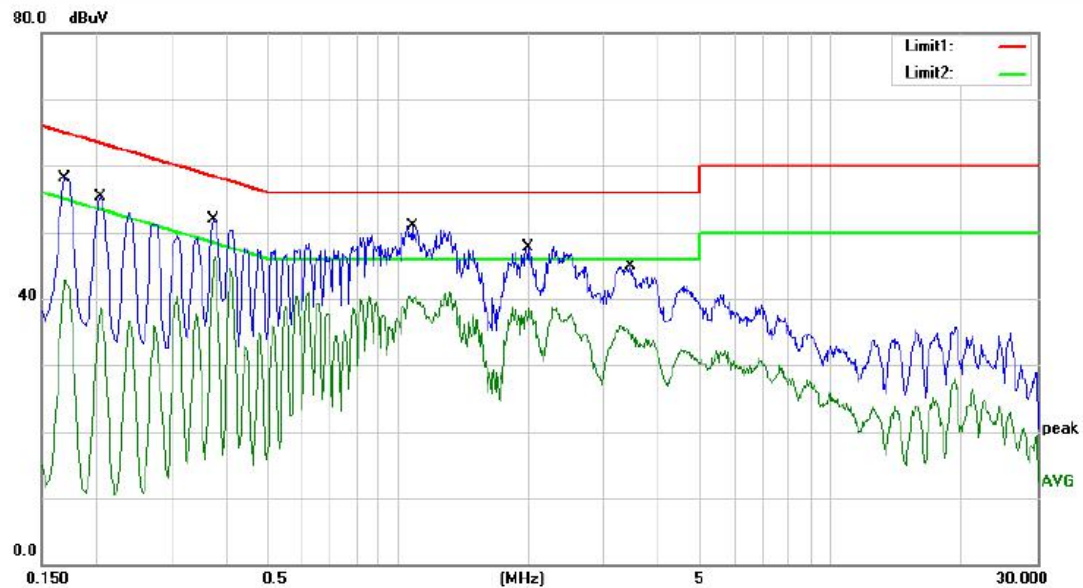
7.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

7.6.5 Test Results

Pass

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:

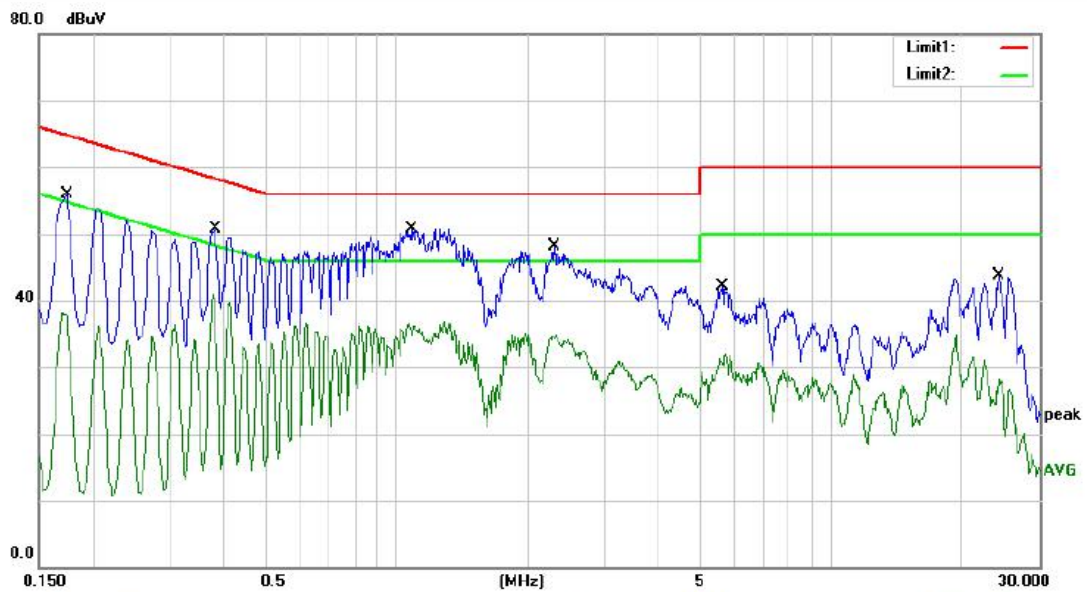


Site: Conduction #2
 Limit: (CE)FCC PART 15 class B_QP
 Mode: WIFI mode
 Note:

Phase: **N**
 Power: AC 120V/60Hz

Temperature: 24.7
 Humidity: 50 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	41.24	10.46	51.70	64.96	-13.26	QP	
2		0.1700	32.28	10.46	42.74	54.96	-12.22	AVG	
3		0.2060	44.78	10.43	55.21	63.37	-8.16	QP	
4		0.2060	28.02	10.43	38.45	53.37	-14.92	AVG	
5		0.3740	41.48	10.38	51.86	58.41	-6.55	QP	
6	*	0.3740	35.96	10.38	46.34	48.41	-2.07	AVG	
7		1.0780	40.43	10.42	50.85	56.00	-5.15	QP	
8		1.0780	29.85	10.42	40.27	46.00	-5.73	AVG	
9		2.0100	37.35	10.32	47.67	56.00	-8.33	QP	
10		2.0100	28.27	10.32	38.59	46.00	-7.41	AVG	
11		3.4380	34.55	10.40	44.95	56.00	-11.05	QP	
12		3.4380	25.50	10.40	35.90	46.00	-10.10	AVG	



Site: Conduction #2

Phase: L1

Temperature: 24.7

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 50 %

Mode: WIFI mode

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1740	45.37	10.46	55.83	64.77	-8.94	QP	
2		0.1740	27.57	10.46	38.03	54.77	-16.74	AVG	
3		0.3820	40.22	10.38	50.60	58.24	-7.64	QP	
4		0.3820	30.45	10.38	40.83	48.24	-7.41	AVG	
5	*	1.0780	40.36	10.42	50.78	56.00	-5.22	QP	
6		1.0780	26.03	10.42	36.45	46.00	-9.55	AVG	
7		2.2980	37.68	10.34	48.02	56.00	-7.98	QP	
8		2.2980	24.53	10.34	34.87	46.00	-11.13	AVG	
9		5.5940	31.57	10.54	42.11	60.00	-17.89	QP	
10		5.5940	21.29	10.54	31.83	50.00	-18.17	AVG	
11		24.1740	32.78	10.85	43.63	60.00	-16.37	QP	
12		24.1740	17.55	10.85	28.40	50.00	-21.60	AVG	

7.7 ANTENNA APPLICATION

7.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi..

7.7.2 Result

PASS.

- The EUT has one antenna: antenna gain is 3 dBi;
 - ☒ Antenna uses a permanently attached antenna which is not replaceable.
 - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
 - ☐ The antenna has to be professionally installed (please provide method of installation)

Which in accordance to section 15.203, please refer to the internal photos

Detail of factor for radiated emission

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

*** End of Report ***