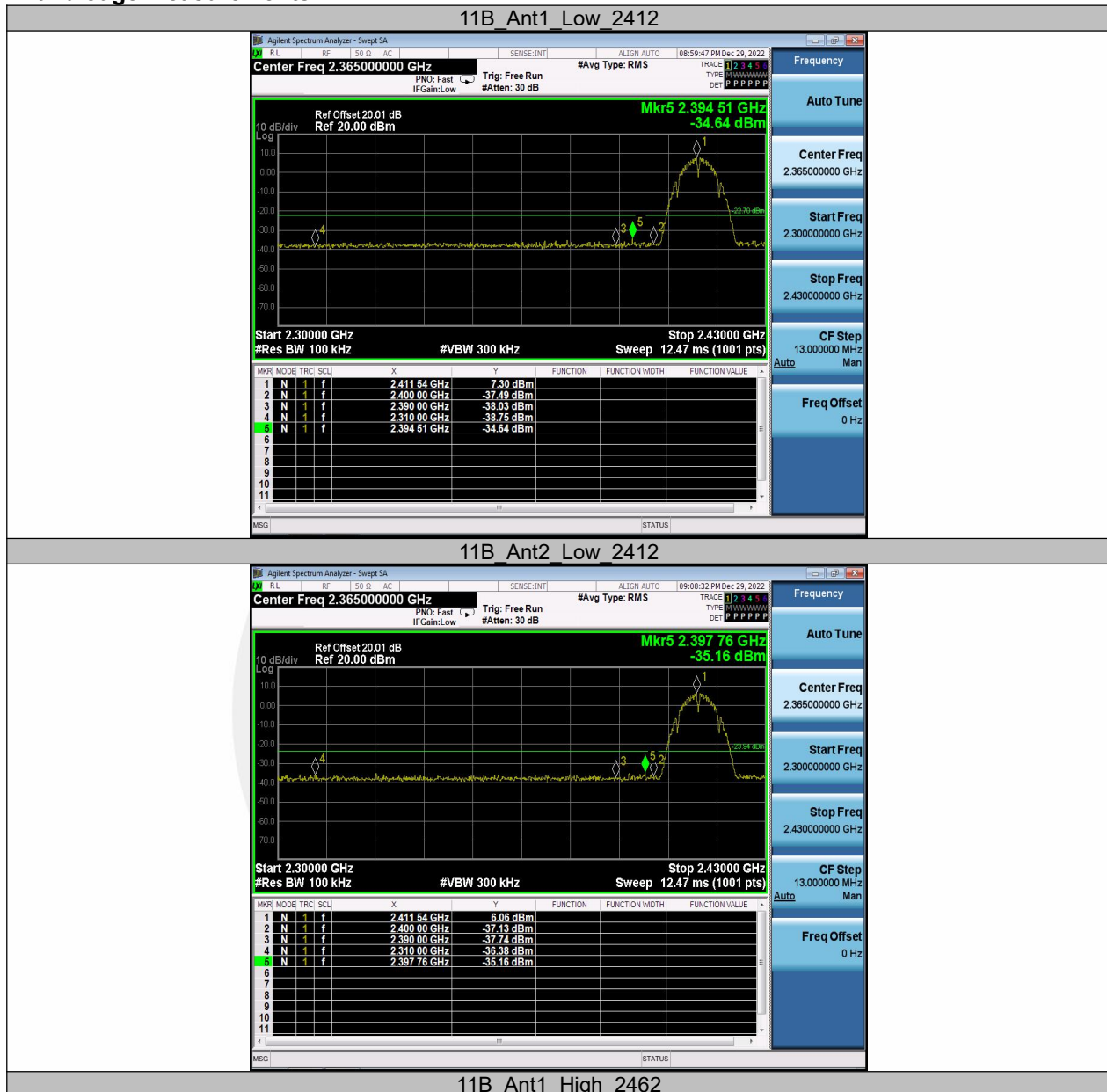
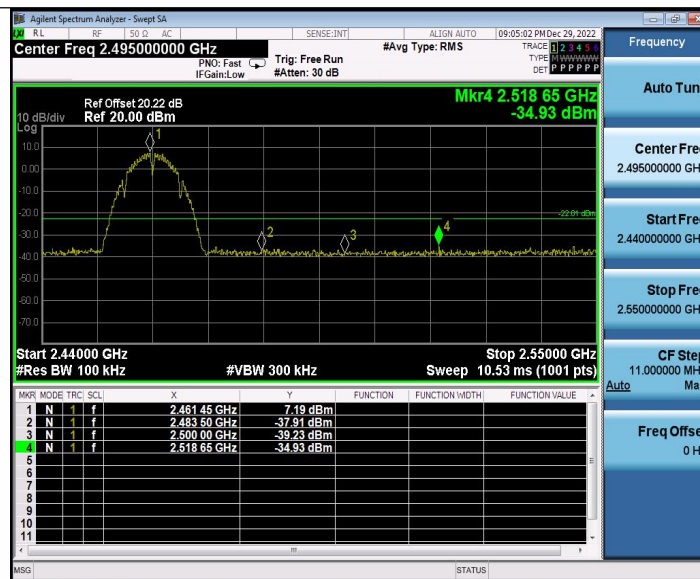
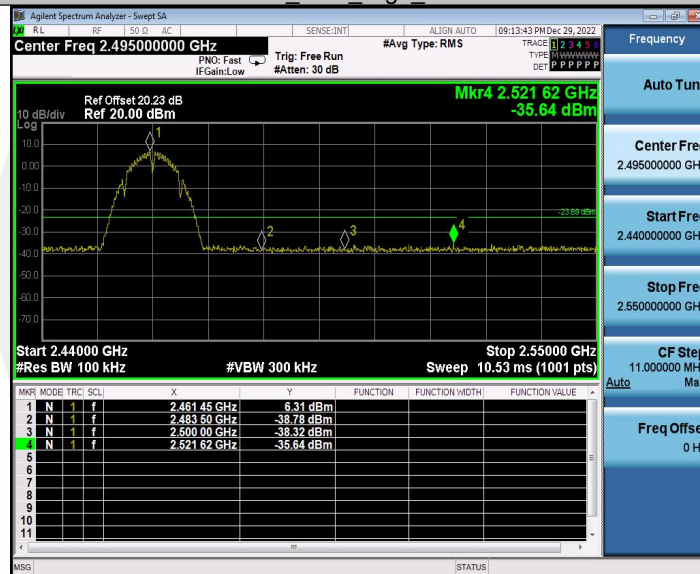


Band edge measurements



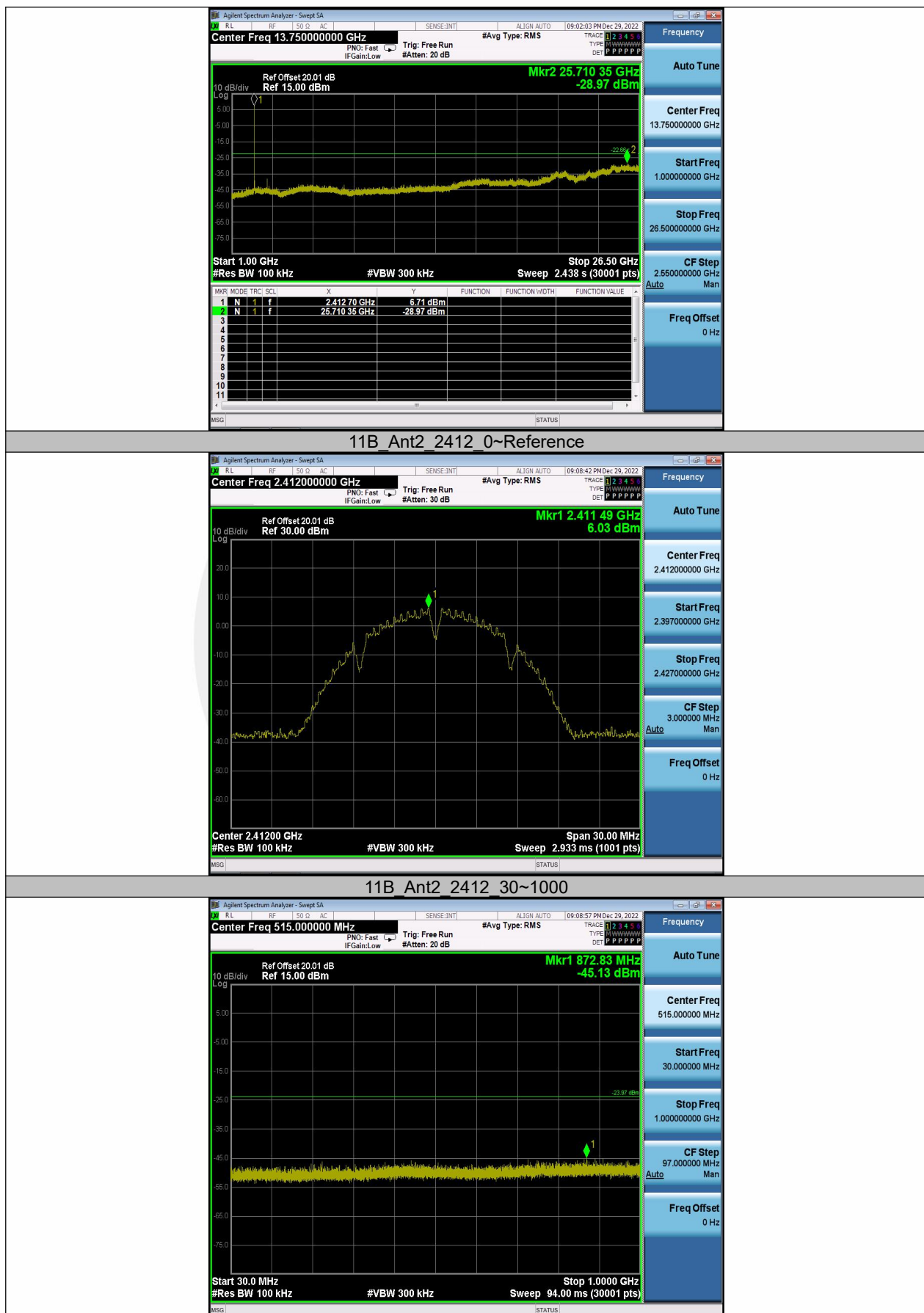


11B_Ant2_High_2462

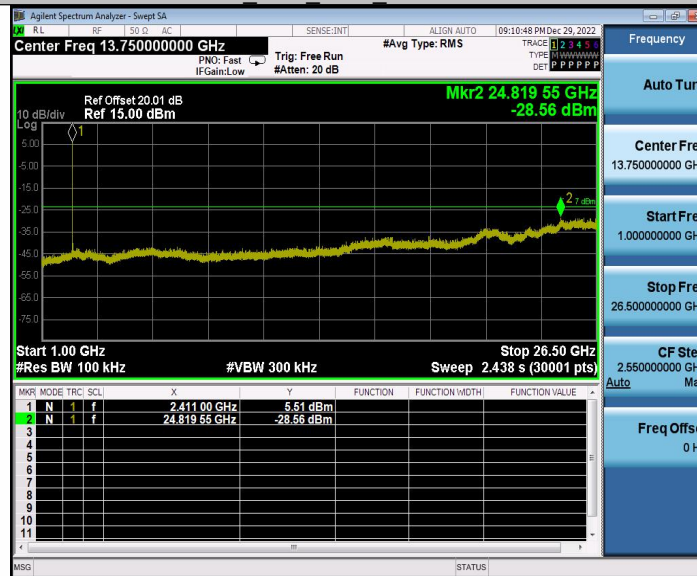


Emission level measurement





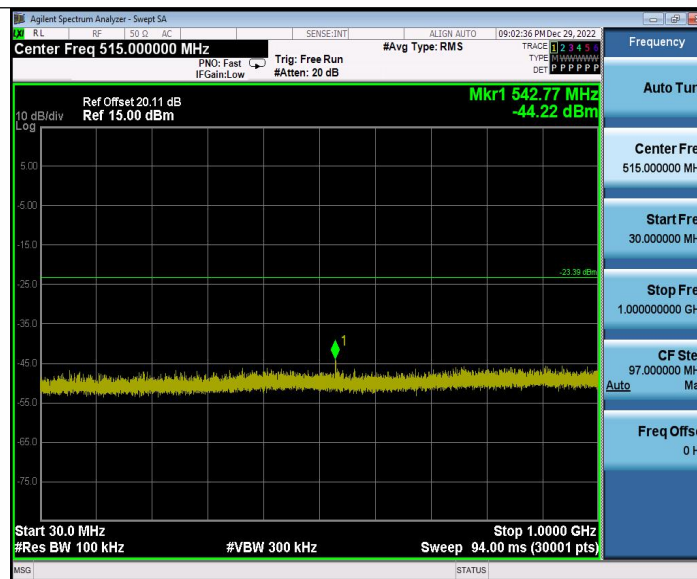
11B_Ant2_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



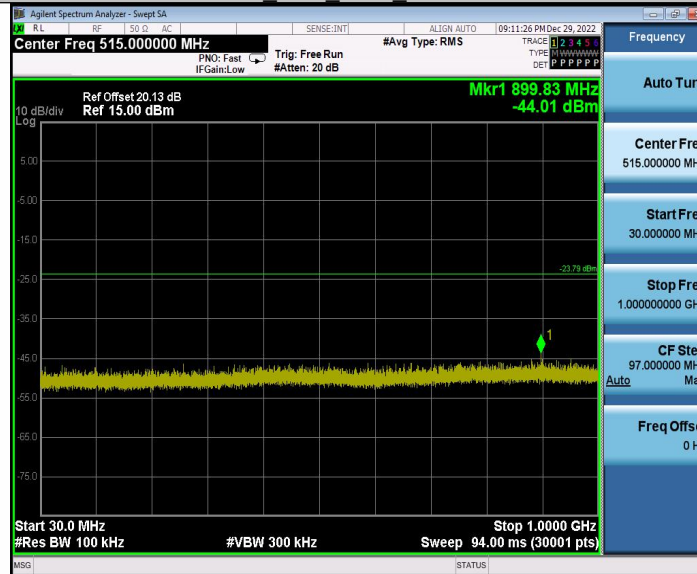
11B_Ant1_2437_1000~26500



11B_Ant2_2437_0~Reference



11B_Ant2_2437_30~1000



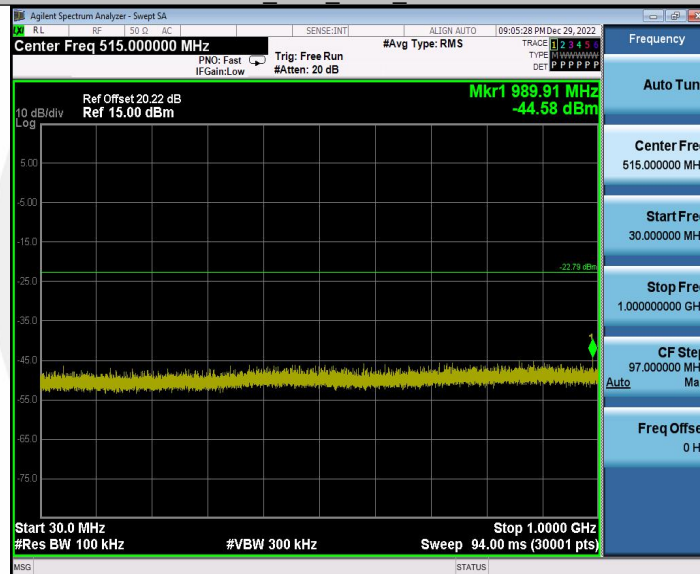
11B_Ant2_2437_1000~26500



11B_Ant1_2462_0~Reference



11B Ant1 2462 30~1000



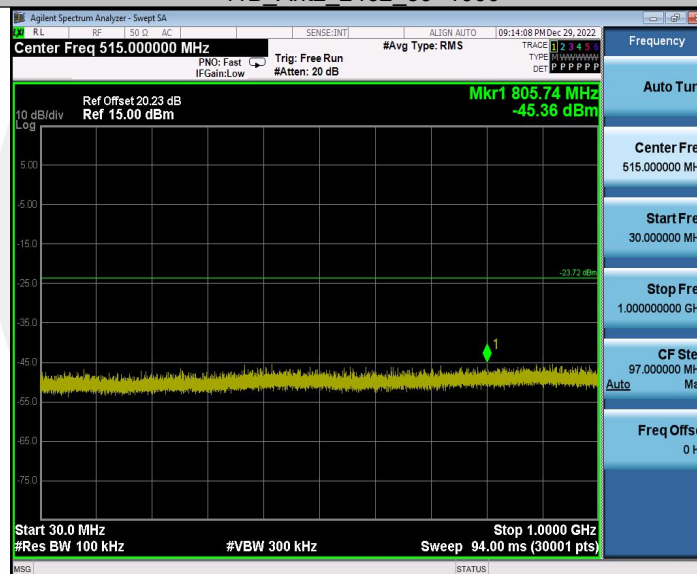
11B Ant1 2462 1000~26500



11B_Ant2_2462_0~Reference



11B_Ant2_2462_30~1000



11B_Ant2_2462_1000~26500



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 2.

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.

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:	28.1° C
Relative Humidity:	43%
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: Data of measurement within this frequency range shown “ -- ” in the table above means 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 Above 1GHz(1GHz to 25GHz)

All modes have been tested, and the worst result recorded was report as below:
Highest gain of each antenna and highest output power is ANT2 and MIMO as below:

ANT2:

Test mode: 802.11n(20) Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
11546.2	V	61.30	74.00	12.70	peak
14715	V	65.60	74.00	8.40	peak
17643.7	V	70.65	74.00	3.35	peak
11546.2	V	46.67	54.00	7.33	AVG
14714.9	V	50.96	54.00	3.04	AVG
17643.7	V	50.24	54.00	3.76	AVG
11486.2	H	61.55	74.00	12.45	peak
13213.1	H	61.85	74.00	12.15	peak
17611.8	H	70.54	74.00	3.46	peak
11486.2	H	47.42	54.00	6.58	AVG
13213.1	H	50.20	54.00	3.80	AVG
17611.8	H	50.22	54.00	3.78	AVG

Test mode: 802.11n(20) Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
11413.1	V	60.73	74.00	13.27	peak
14660.6	V	64.87	74.00	9.13	peak
17610	V	71.37	74.00	2.63	peak
11413.1	V	44.52	54.00	9.48	AVG
14660.6	V	50.54	54.00	3.46	AVG
17610.0	V	50.92	54.00	3.08	AVG
11495.6	H	60.87	74.00	13.13	peak
14634.3	H	64.64	74.00	9.36	peak
17617.5	H	70.40	74.00	3.60	peak
11495.6	H	46.08	54.00	7.92	AVG
14634.4	H	49.87	54.00	4.13	AVG
17617.4	H	50.96	54.00	3.04	AVG

Test mode: 802.11n(20) Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
11521.8	V	60.38	74.00	13.62	peak
14572.5	V	64.39	74.00	9.61	peak
17598.7	V	70.02	74.00	3.98	peak
11521.8	V	46.43	54.00	7.57	AVG
14572.4	V	49.50	54.00	4.50	AVG
17598.7	V	50.29	54.00	3.71	AVG
11505	H	60.76	74.00	13.24	peak
14640	H	63.99	74.00	10.01	peak
17600.6	H	70.54	74.00	3.46	peak
11504.9	H	49.66	54.00	4.34	AVG
14640.0	H	50.05	54.00	3.95	AVG
17600.6	H	50.88	54.00	3.12	AVG

MIMO:

Test mode: 802.11n(20) Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
11544.810	V	61.17	74.00	12.83	peak
14713.610	V	65.44	74.00	8.56	peak
17644.980	V	70.62	74.00	3.38	peak
11547.480	V	46.65	54.00	7.35	AVG
14712.650	V	50.7	54.00	3.3	AVG
17641.450	V	50.05	54.00	3.95	AVG
11497.890	H	61.47	74.00	12.53	peak
13224.790	H	61.64	74.00	12.36	peak
17623.490	H	70.38	74.00	3.62	peak
11497.890	H	47.28	54.00	6.72	AVG
13209.790	H	50.02	54.00	3.98	AVG
17608.490	H	50.09	54.00	3.91	AVG

Test mode: 802.11n(20) Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
11411.710	V	60.6	74.00	13.4	peak
14659.210	V	64.71	74.00	9.29	peak
17611.280	V	71.34	74.00	2.66	peak
11414.380	V	44.5	54.00	9.5	AVG
14658.350	V	50.28	54.00	3.72	AVG
17607.750	V	50.73	54.00	3.27	AVG
11507.290	H	60.79	74.00	13.21	peak
14645.990	H	64.43	74.00	9.57	peak
17629.190	H	70.24	74.00	3.76	peak
11507.290	H	45.94	54.00	8.06	AVG
14631.090	H	49.69	54.00	4.31	AVG
17614.090	H	50.83	54.00	3.17	AVG

Test mode: 802.11n(20) Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
11520.410	V	60.25	74.00	13.75	peak
14571.110	V	64.23	74.00	9.77	peak
17599.980	V	69.99	74.00	4.01	peak
11523.080	V	46.41	54.00	7.59	AVG
14570.150	V	49.24	54.00	4.76	AVG
17596.450	V	50.1	54.00	3.9	AVG
11516.690	H	60.68	74.00	13.32	peak
14651.690	H	63.78	74.00	10.22	peak
17612.290	H	70.38	74.00	3.62	peak
11516.590	H	49.52	54.00	4.48	AVG
14636.690	H	49.87	54.00	4.13	AVG
17597.290	H	50.75	54.00	3.25	AVG

- 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 have been tested, and the worst result recorded was report as below:

Test mode: 802.11n(20MHz) Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
2389.73	V	58.20	74.00	15.80	peak
2389.72	V	47.78	54.00	6.22	AVG
2387.41	H	47.24	74.00	26.76	peak
2387.37	H	34.33	54.00	19.67	AVG

Test mode: 802.11n(20MHz) Frequency: Channel 11: 2462MHz

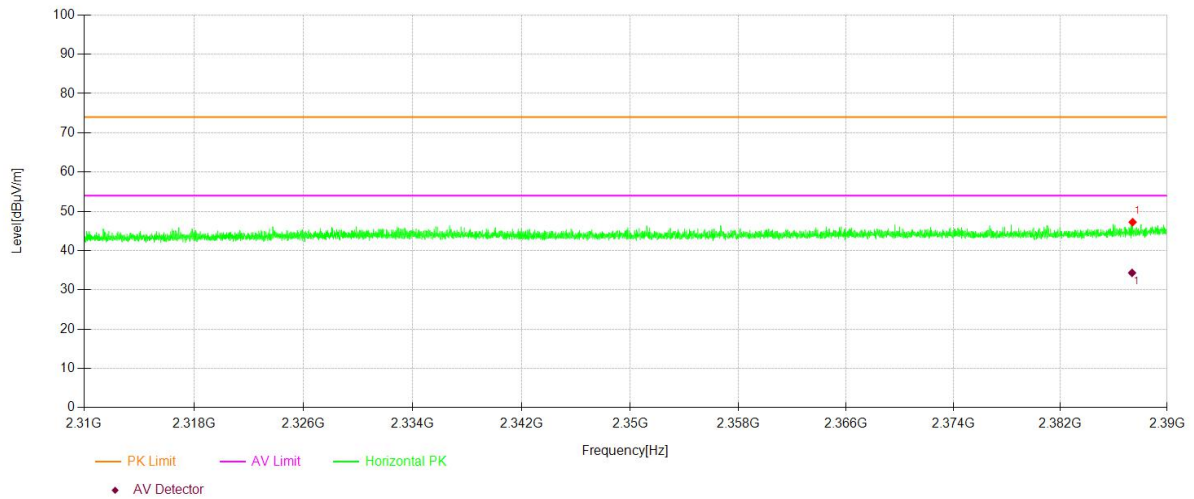
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
2483.99	V	58.95	74.00	15.05	peak
2484.03	V	47.05	54.00	6.95	AVG
2485.28	H	48.65	74.00	25.35	peak
2485.24	H	34.06	54.00	19.94	AVG

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	

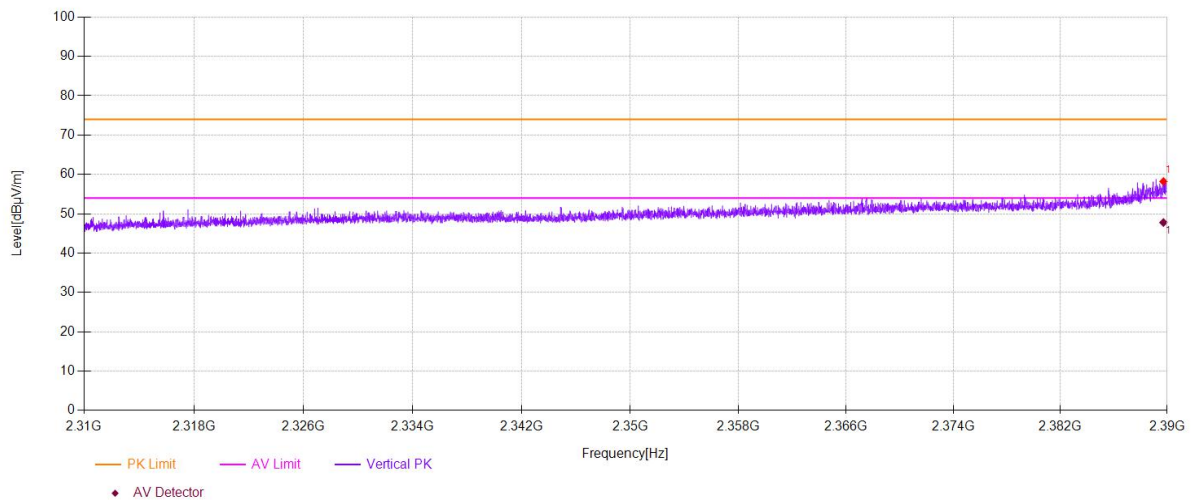
VBW=3MHz



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	

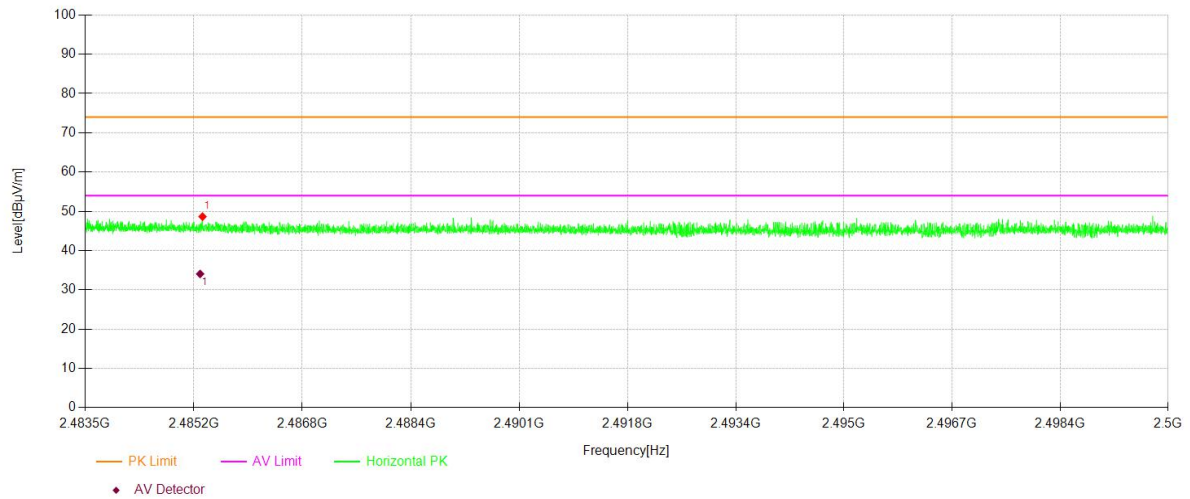
VBW=3MHz



Spurious Emission in Restricted Band 2483.5-2500MHz

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

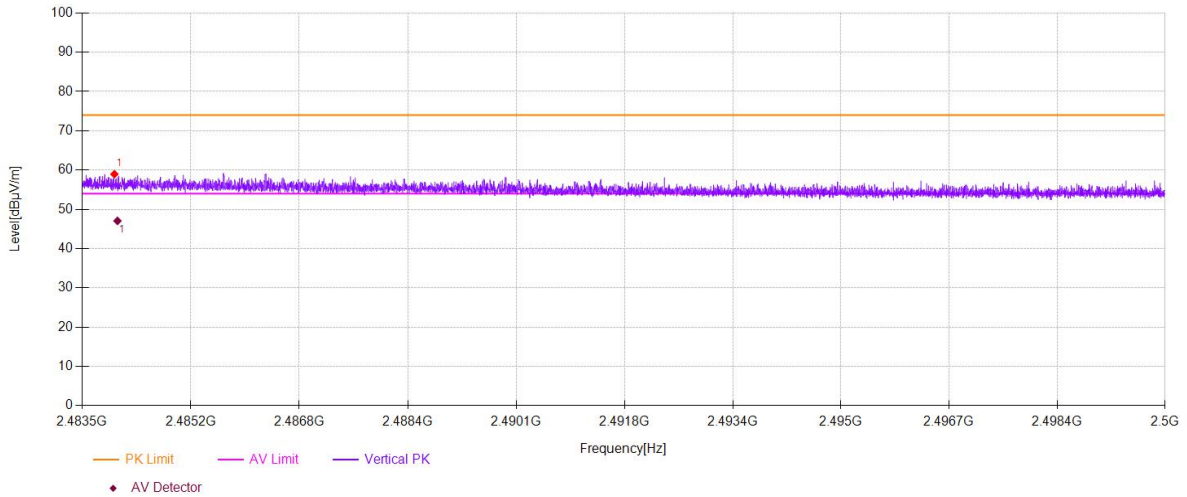
VBW=3MHz



Spurious Emission in Restricted Band 2483.5-2500MHz

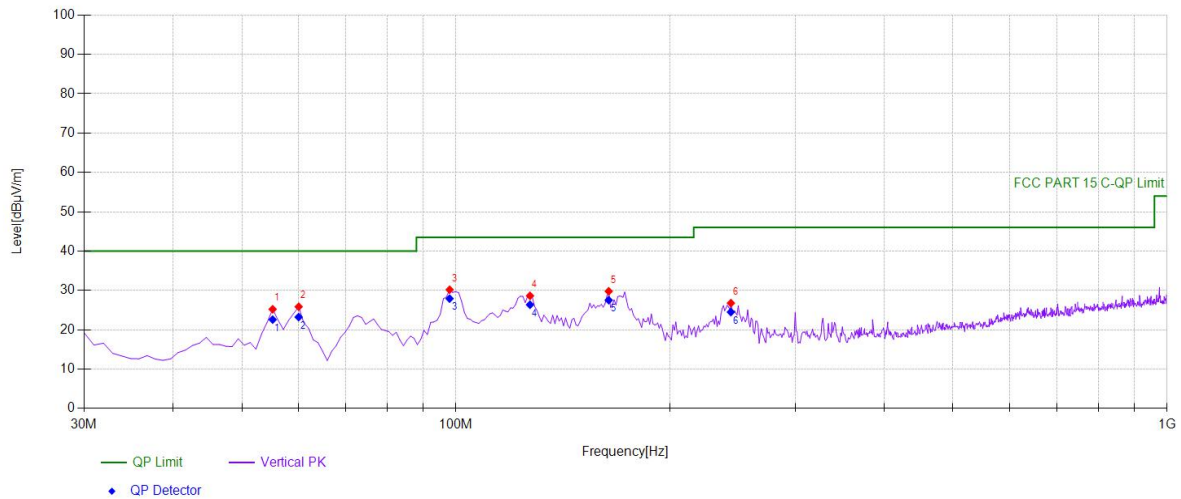
Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11n(HT20)	☐ 802.11n(HT40)
	☒ Channel 11: 2462MHz	☐ Channel 9: 2452MHz	Polarity: V	

VBW=3MHz

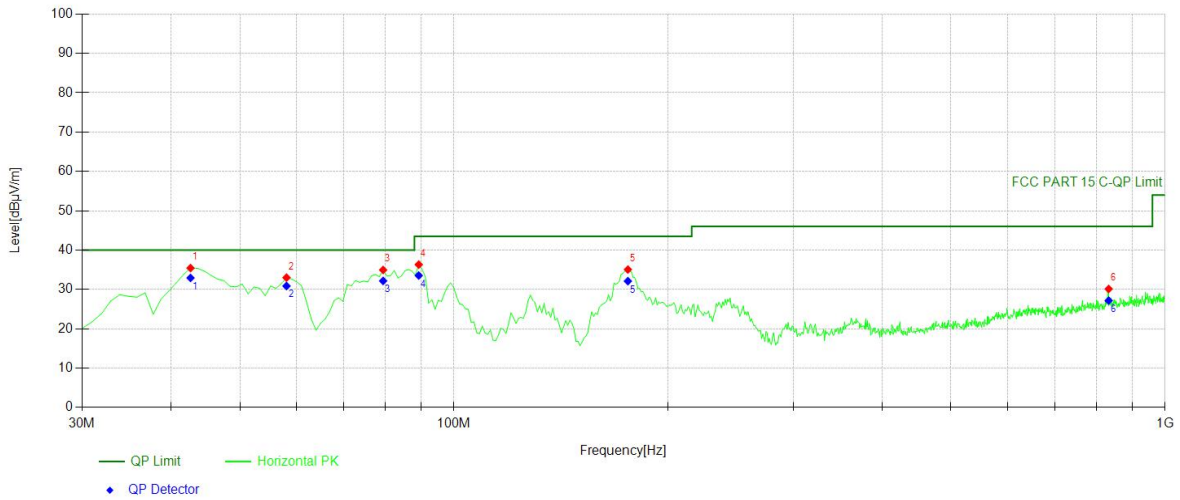


- Spurious Emission below 1GHz (30MHz to 1GHz)
All modes have been tested, and the worst result recorded was report as below:

Test mode: 802.11n(20) Frequency: Channel 1: 2412MHz



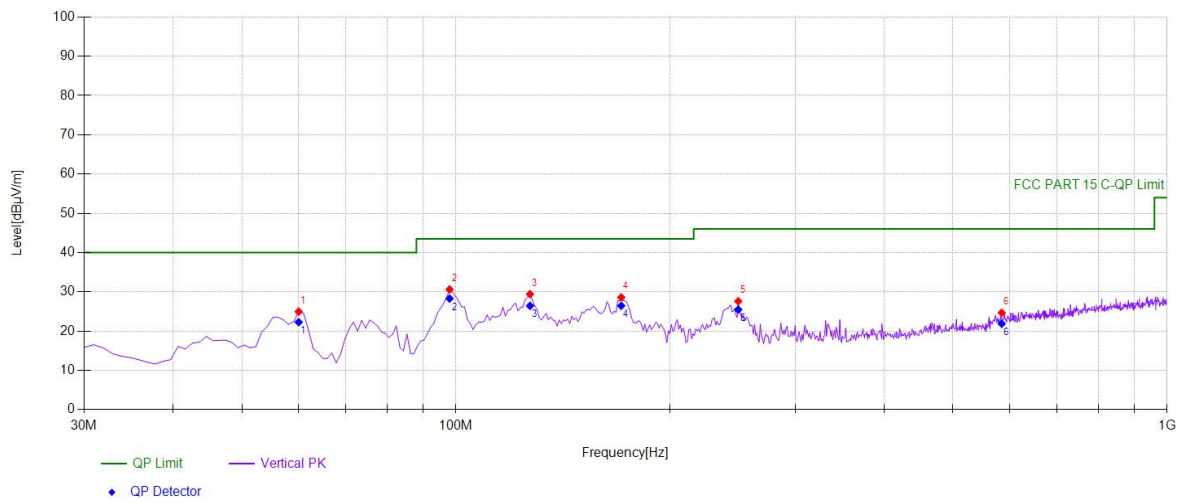
Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity	Angle[°]	Height[cm]
1	55.2452	43.13	-17.91	25.22	PK	40.00	14.78	Vertical	50	100
2	60.1001	44.42	-18.56	25.86	PK	40.00	14.14	Vertical	260	100
3	97.968	47.47	-17.28	30.19	PK	43.50	13.31	Vertical	354	100
4	127.097	47.33	-18.69	28.64	PK	43.50	14.86	Vertical	82	100
5	163.994	49.14	-19.35	29.79	PK	43.50	13.71	Vertical	31	100
6	243.613	41.96	-15.18	26.78	PK	46.00	19.22	Vertical	214	100



Suspected Data List

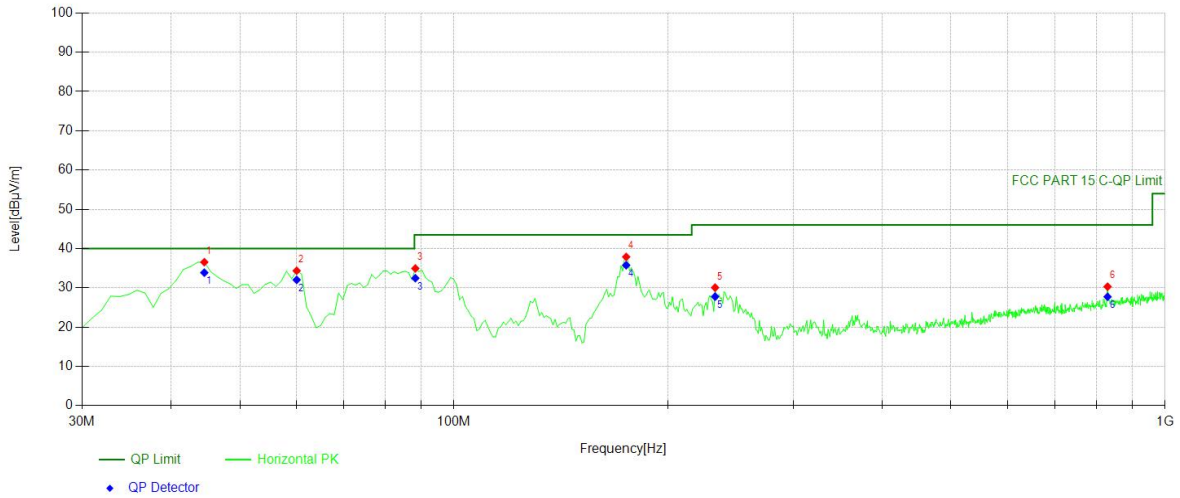
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity	Angle[°]	Height [cm]
1	42.6226	53.16	-17.73	35.43	PK	40.00	4.57	Horizon	76	100
2	58.1582	51.31	-18.30	33.01	PK	40.00	6.99	Horizon	126	100
3	79.5195	56.37	-21.42	34.95	PK	40.00	5.05	Horizon	2	100
4	89.2292	55.66	-19.34	36.32	PK	43.50	7.18	Horizon	297	100
5	175.645	53.70	-18.64	35.06	PK	43.50	8.44	Horizon	163	100
6	832.993	34.16	-4.04	30.12	PK	46.00	15.88	Horizon	71	100

Test mode: 802.11n(20) Frequency: Channel 6: 2437MHz



Suspected Data List

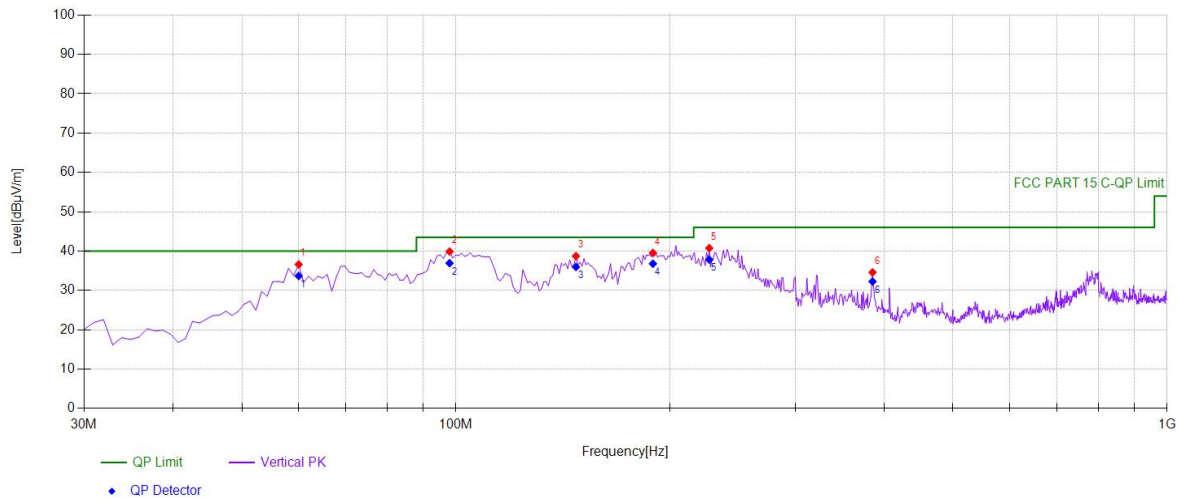
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity	Angle[°]	Height [cm]
1	60.1001	43.53	-18.56	24.97	PK	40.00	15.03	Vertical	44	100
2	97.968	47.90	-17.28	30.62	PK	43.50	12.88	Vertical	174	100
3	127.097	48.11	-18.69	29.42	PK	43.50	14.08	Vertical	174	100
4	170.790	47.52	-18.92	28.60	PK	43.50	14.90	Vertical	152	100
5	249.439	42.79	-15.17	27.62	PK	46.00	18.38	Vertical	30	100
6	585.395	31.81	-7.14	24.67	PK	46.00	21.33	Vertical	40	100



Suspected Data List

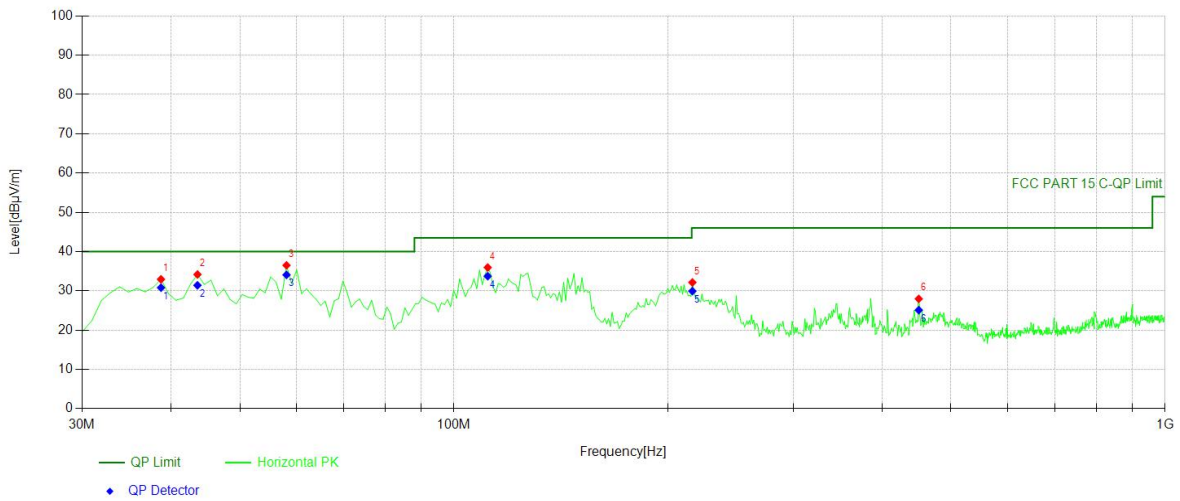
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity	Angle[°]	Height [cm]
1	44.5646	54.14	-17.59	36.55	PK	40.00	3.45	Horizon	122	100
2	60.1001	52.92	-18.56	34.36	PK	40.00	5.64	Horizon	77	100
3	88.2583	54.51	-19.56	34.95	PK	43.50	8.55	Horizon	316	100
4	174.674	56.58	-18.69	37.89	PK	43.50	5.61	Horizon	330	100
5	232.932	45.93	-15.87	30.06	PK	46.00	15.94	Horizon	90	100
6	830.080	34.42	-4.12	30.30	PK	46.00	15.70	Horizon	206	100

Test mode: 802.11n(20) Frequency: Channel 11: 2462MHz



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity	Angle[°]	Height [cm]
1	60.1001	55.18	-18.56	36.62	PK	40.00	2.38	Vertical	216	100
2	97.968	57.17	-17.28	39.89	PK	43.50	3.61	Vertical	206	100
3	147.487	58.56	-19.83	38.73	PK	43.50	4.77	Vertical	282	100
4	189.239	57.35	-17.80	39.55	PK	43.50	3.95	Vertical	211	100
5	227.107	57.18	-16.42	40.76	PK	46.00	5.24	Vertical	188	100
6	385.375	46.42	-11.83	34.59	PK	46.00	11.41	Vertical	304	100



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity	Angle[°]	Height[cm]
1	38.7387	50.93	-17.99	32.94	PK	40.00	7.06	Horizon	93	100
2	43.5936	51.84	-17.66	34.18	PK	40.00	5.82	Horizon	274	100
3	58.1582	54.80	-18.30	36.50	PK	40.00	3.50	Horizon	134	100
4	111.561	53.37	-17.41	35.96	PK	43.50	7.54	Horizon	242	100
5	216.426	49.26	-17.11	32.15	PK	46.00	8.85	Horizon	251	100
6	450.430	39.09	-11.13	27.96	PK	46.00	13.04	Horizon	256	100

7.6 CONDUCTED EMISSION TEST

7.6.1 Applicable Standard

According to IC RSS-Gen 8.8

7.6.2 Conformance Limit

FCC Part 15, Subpart B, Class B

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

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

7.6.3 Test Configuration

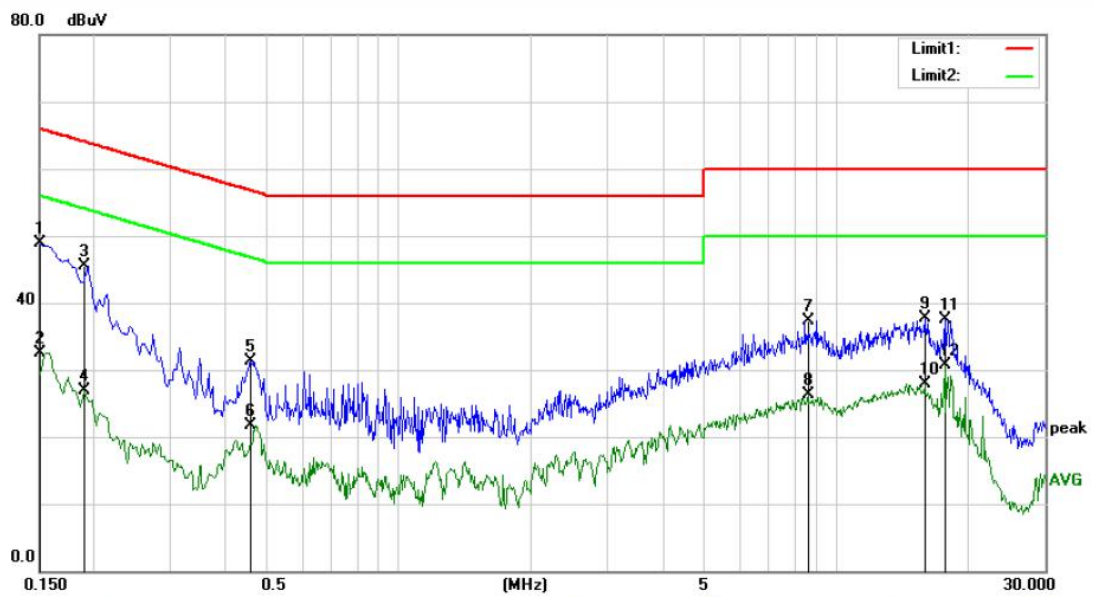
Test according to clause 6.3 conducted emission test setup 3.

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

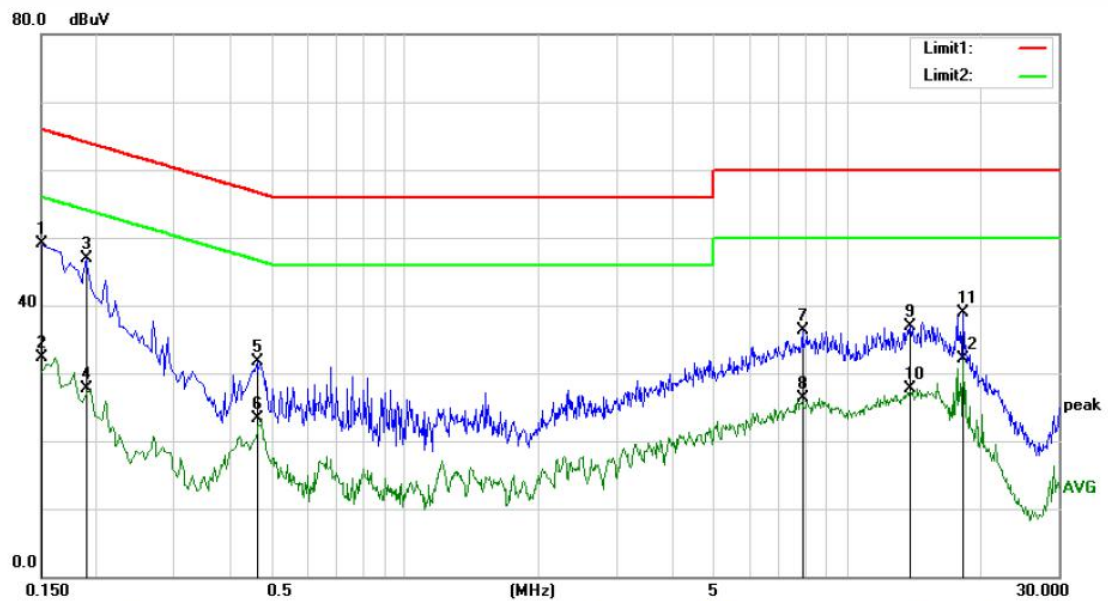


Site Conduction #2

Phase: **N**

Temperature: 25.1

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	38.57	10.25	48.82	66.00	-17.18	QP	
2		0.1500	22.26	10.25	32.51	56.00	-23.49	AVG	
3		0.1900	35.16	10.34	45.50	64.04	-18.54	QP	
4		0.1900	16.60	10.34	26.94	54.04	-27.10	AVG	
5		0.4580	21.05	10.23	31.28	56.73	-25.45	QP	
6		0.4580	11.49	10.23	21.72	46.73	-25.01	AVG	
7		8.5980	26.81	10.40	37.21	60.00	-22.79	QP	
8		8.5980	15.92	10.40	26.32	50.00	-23.68	AVG	
9		15.9020	27.10	10.51	37.61	60.00	-22.39	QP	
10		15.9020	17.43	10.51	27.94	50.00	-22.06	AVG	
11		17.6980	26.95	10.57	37.52	60.00	-22.48	QP	
12		17.6980	20.09	10.57	30.66	50.00	-19.34	AVG	



Site Conduction #2 Phase: **L1** Temperature: 25.1

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	38.83	10.25	49.08	66.00	-16.92	QP	
2		0.1500	22.09	10.25	32.34	56.00	-23.66	AVG	
3		0.1900	36.65	10.34	46.99	64.04	-17.05	QP	
4		0.1900	17.42	10.34	27.76	54.04	-26.28	AVG	
5		0.4620	21.50	10.23	31.73	56.66	-24.93	QP	
6		0.4620	13.06	10.23	23.29	46.66	-23.37	AVG	
7		7.9260	25.92	10.39	36.31	60.00	-23.69	QP	
8		7.9260	15.90	10.39	26.29	50.00	-23.71	AVG	
9		13.8980	26.50	10.48	36.98	60.00	-23.02	QP	
10		13.8980	17.13	10.48	27.61	50.00	-22.39	AVG	
11		18.2460	28.32	10.59	38.91	60.00	-21.09	QP	
12		18.2460	21.54	10.59	32.13	50.00	-17.87	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 integrated antenna, antenna1 gain is 3.67dBi, Ant 2: 2.92dBi.

- ☐ 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 ---