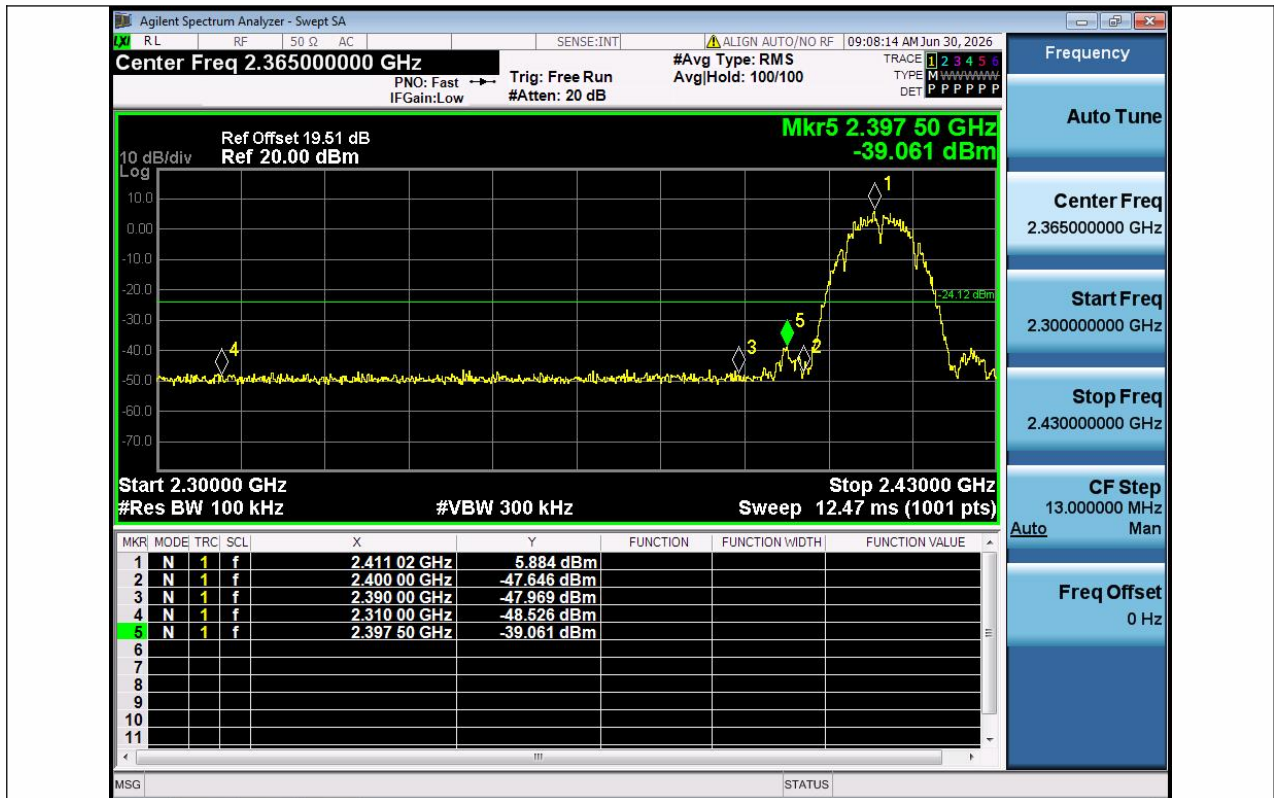
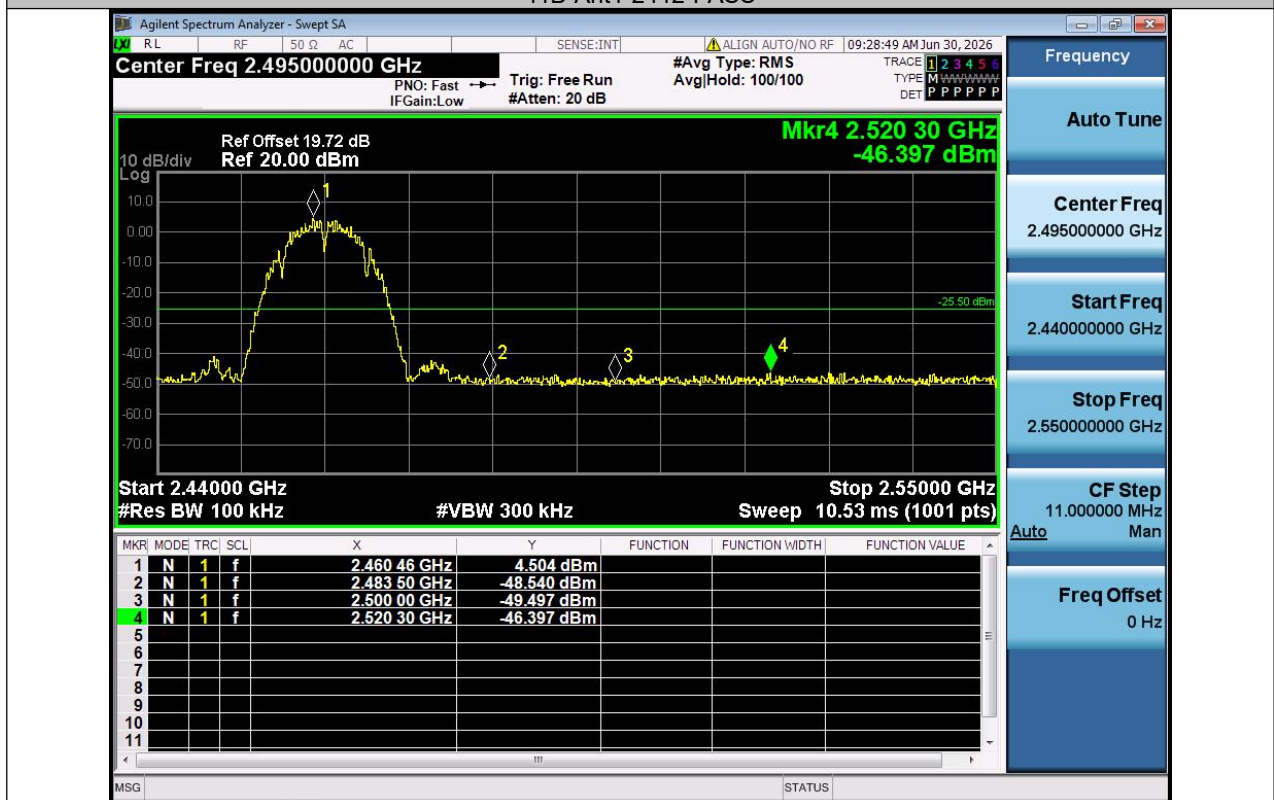
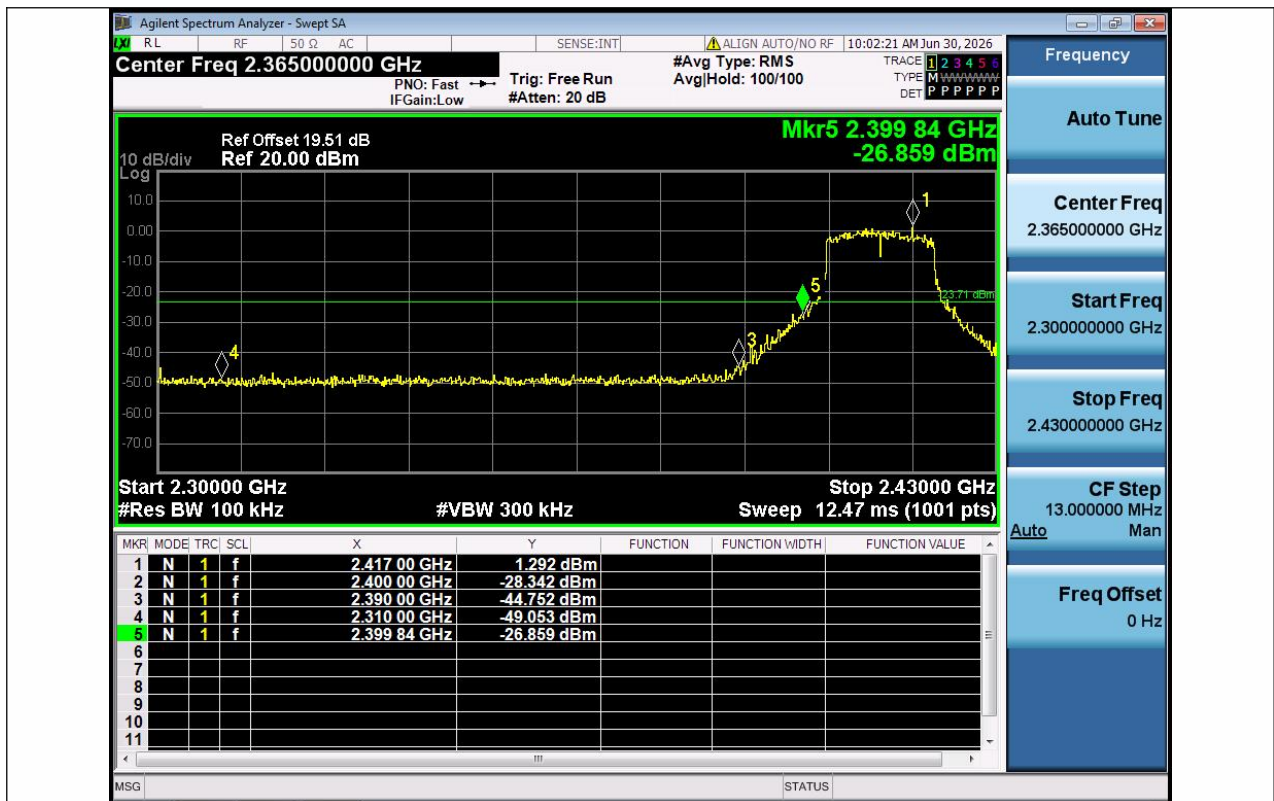




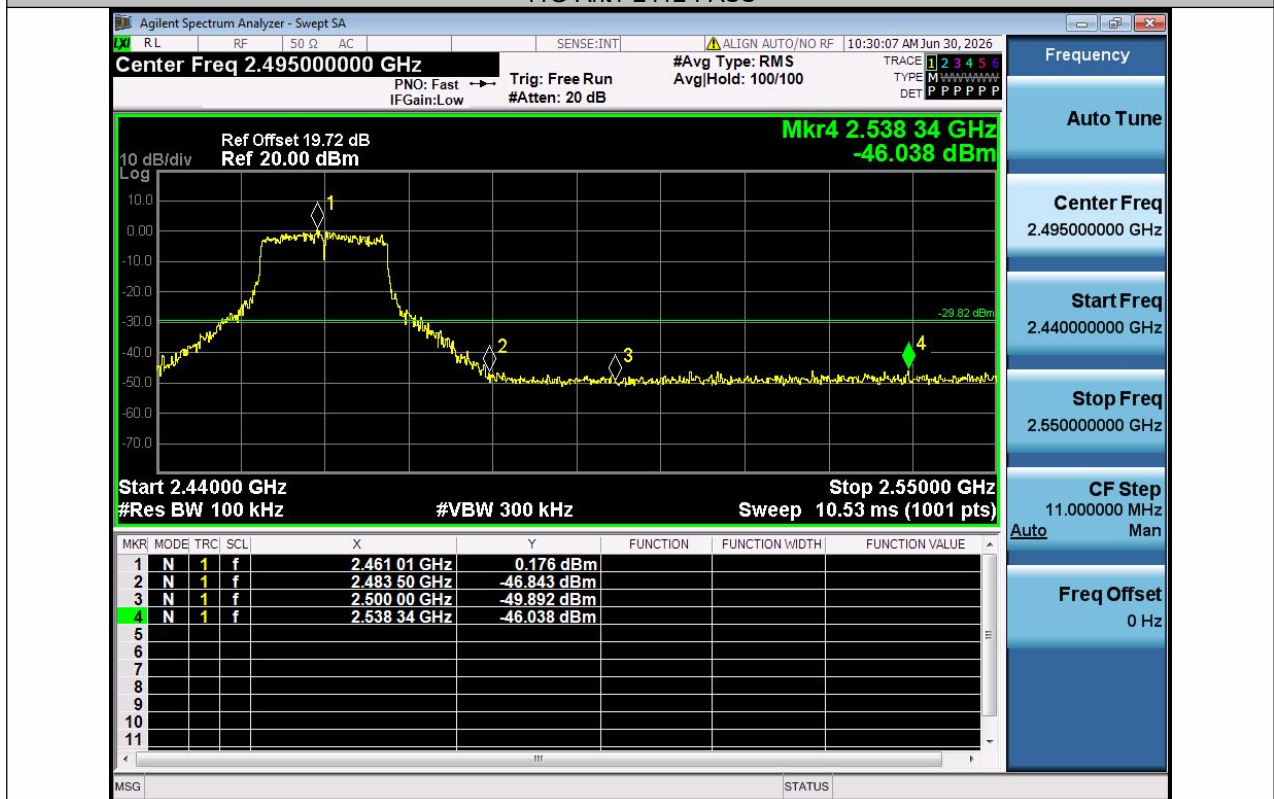
11B-Ant1-2412-PASS



11B-Ant1-2462-PASS

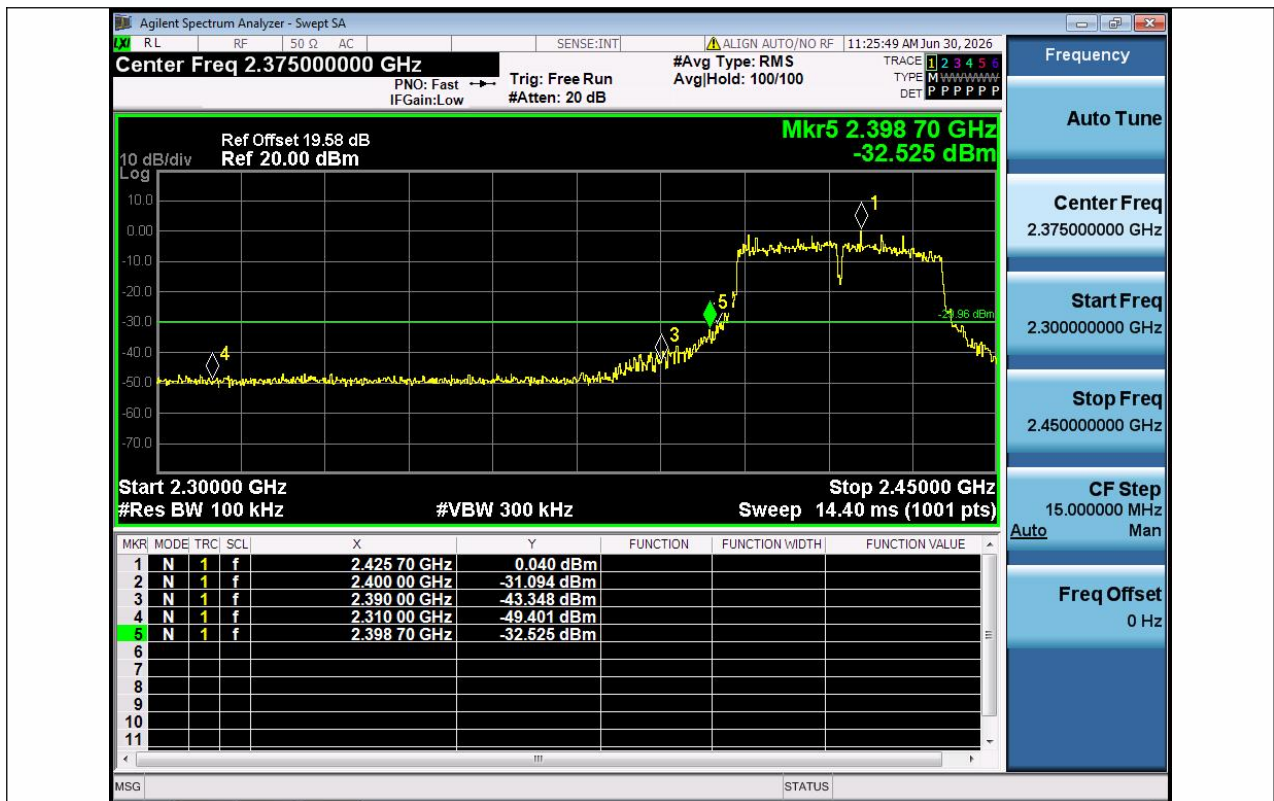


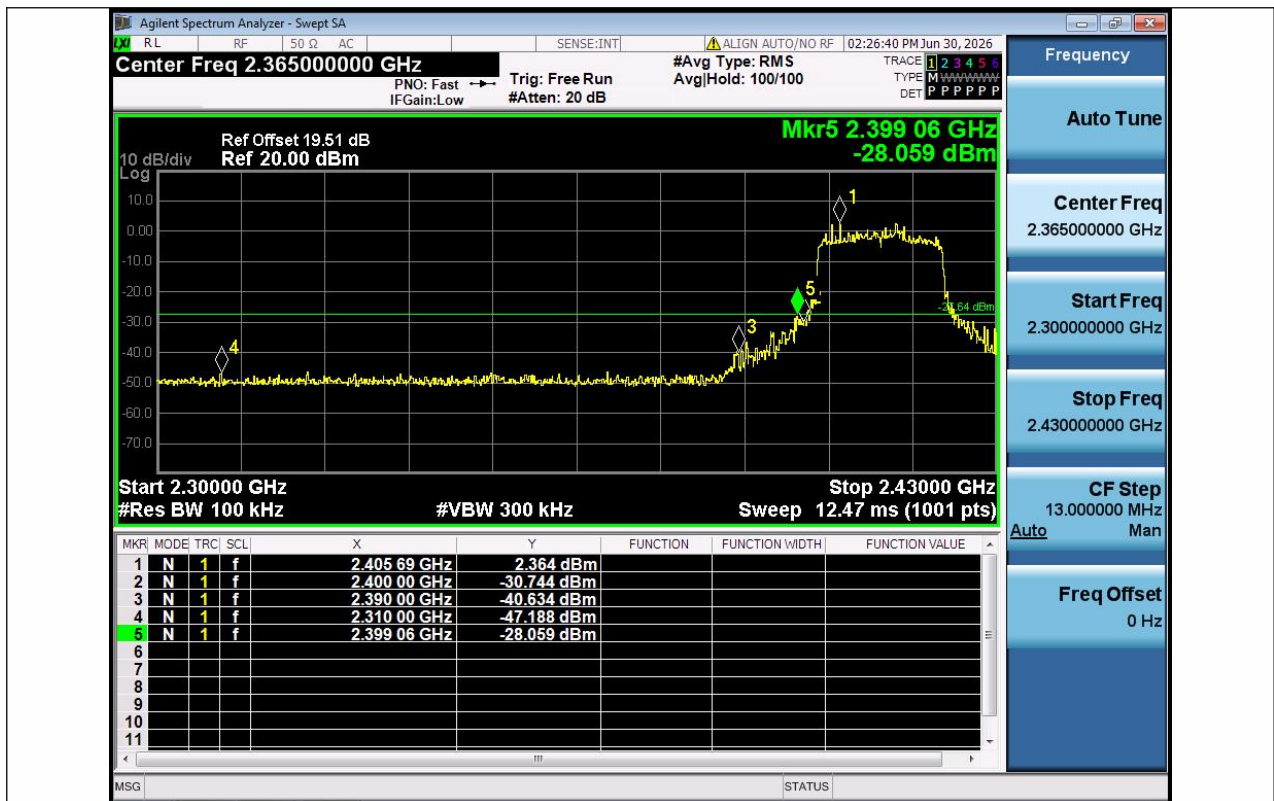
11G-Ant1-2412-PASS



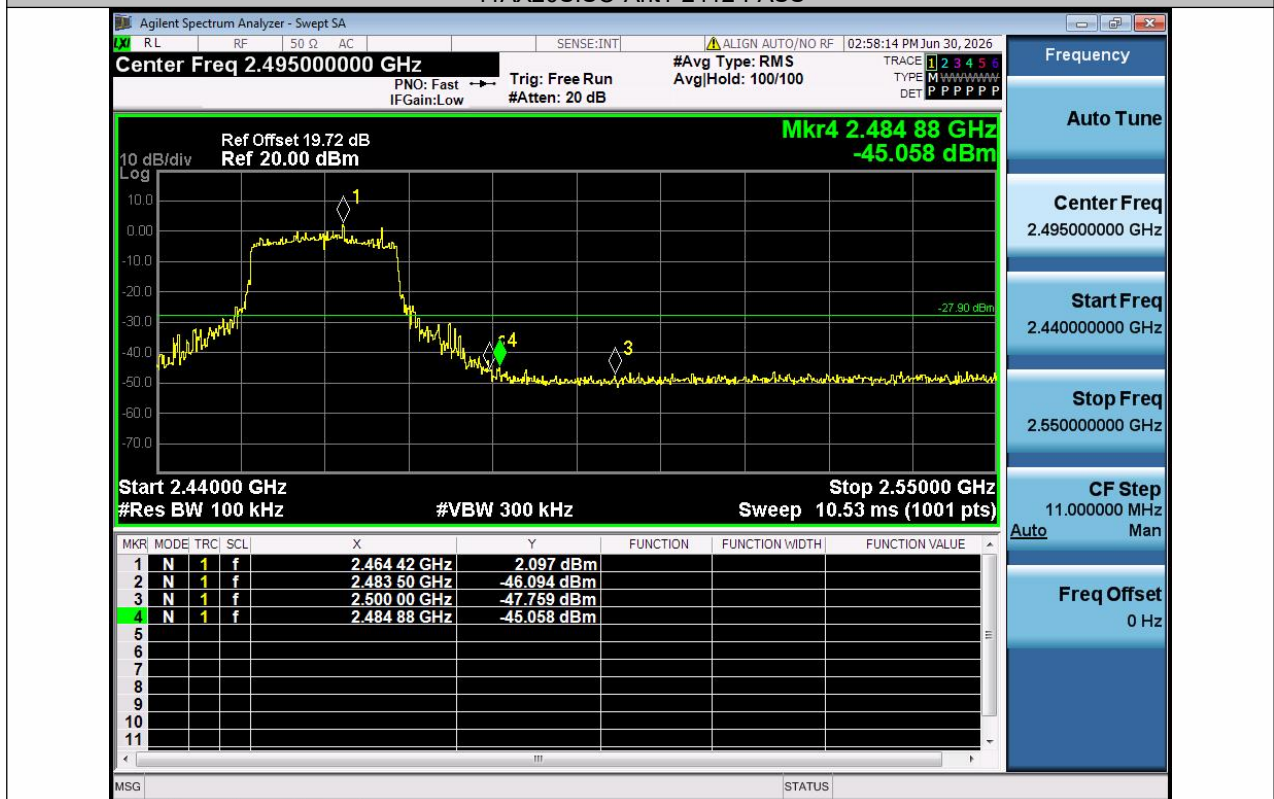
11G-Ant1-2462-PASS







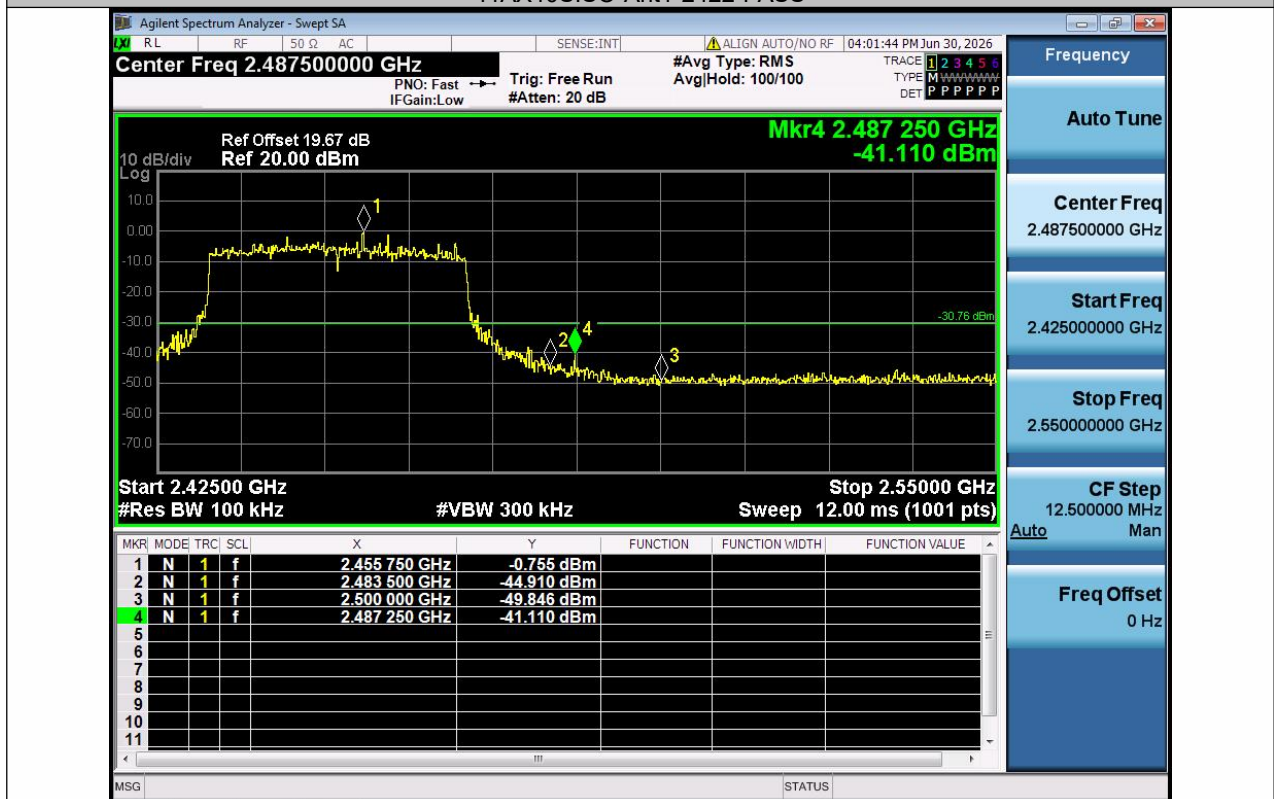
11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2452-PASS

Conducted Spurious Emission

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.99	3.99	---	PASS
11B	Ant1	2412	30~1000	3.99	-57.89	≤-26.01	PASS
11B	Ant1	2412	1000~26500	3.99	-28.88	≤-26.01	PASS
11B	Ant1	2437	0~Reference	2.40	2.40	---	PASS
11B	Ant1	2437	30~1000	2.40	-56.96	≤-27.6	PASS
11B	Ant1	2437	1000~26500	2.40	-29.28	≤-27.6	PASS
11B	Ant1	2462	0~Reference	3.47	3.47	---	PASS
11B	Ant1	2462	30~1000	3.47	-56.76	≤-26.53	PASS
11B	Ant1	2462	1000~26500	3.47	-29.1	≤-26.53	PASS
11G	Ant1	2412	0~Reference	-0.52	-0.52	---	PASS
11G	Ant1	2412	30~1000	-0.52	-56.66	≤-30.52	PASS
11G	Ant1	2412	1000~26500	-0.52	-41.13	≤-30.52	PASS
11G	Ant1	2437	0~Reference	-0.15	-0.15	---	PASS
11G	Ant1	2437	30~1000	-0.15	-58.12	≤-30.15	PASS
11G	Ant1	2437	1000~26500	-0.15	-41.05	≤-30.15	PASS
11G	Ant1	2462	0~Reference	0.00	0.00	---	PASS
11G	Ant1	2462	30~1000	0.00	-57.08	≤-30	PASS
11G	Ant1	2462	1000~26500	0.00	-42.08	≤-30	PASS
11N20SISO	Ant1	2412	0~Reference	-0.21	-0.21	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.21	-57.49	≤-30.21	PASS
11N20SISO	Ant1	2412	1000~26500	-0.21	-41.43	≤-30.21	PASS
11N20SISO	Ant1	2437	0~Reference	-0.29	-0.29	---	PASS
11N20SISO	Ant1	2437	30~1000	-0.29	-57.1	≤-30.29	PASS
11N20SISO	Ant1	2437	1000~26500	-0.29	-41.15	≤-30.29	PASS
11N20SISO	Ant1	2462	0~Reference	-0.19	-0.19	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.19	-57.12	≤-30.19	PASS
11N20SISO	Ant1	2462	1000~26500	-0.19	-40.11	≤-30.19	PASS
11N40SISO	Ant1	2422	0~Reference	-0.49	-0.49	---	PASS
11N40SISO	Ant1	2422	30~1000	-0.49	-56.89	≤-30.49	PASS
11N40SISO	Ant1	2422	1000~26500	-0.49	-41.11	≤-30.49	PASS
11N40SISO	Ant1	2437	0~Reference	0.79	0.79	---	PASS
11N40SISO	Ant1	2437	30~1000	0.79	-56.92	≤-29.21	PASS
11N40SISO	Ant1	2437	1000~26500	0.79	-41.76	≤-29.21	PASS
11N40SISO	Ant1	2452	0~Reference	1.22	1.22	---	PASS
11N40SISO	Ant1	2452	30~1000	1.22	-57.65	≤-28.78	PASS
11N40SISO	Ant1	2452	1000~26500	1.22	-41.19	≤-28.78	PASS
11AX20SISO	Ant1	2412	0~Reference	2.86	2.86	---	PASS
11AX20SISO	Ant1	2412	30~1000	2.86	-57.08	≤-27.14	PASS
11AX20SISO	Ant1	2412	1000~26500	2.86	-28.51	≤-27.14	PASS
11AX20SISO	Ant1	2437	0~Reference	2.88	2.88	---	PASS
11AX20SISO	Ant1	2437	30~1000	2.88	-57.2	≤-27.12	PASS
11AX20SISO	Ant1	2437	1000~26500	2.88	-42.28	≤-27.12	PASS
11AX20SISO	Ant1	2462	0~Reference	3.27	3.27	---	PASS
11AX20SISO	Ant1	2462	30~1000	3.27	-57.27	≤-26.73	PASS
11AX20SISO	Ant1	2462	1000~26500	3.27	-28.5	≤-26.73	PASS
11AX40SISO	Ant1	2422	0~Reference	0.21	0.21	---	PASS
11AX40SISO	Ant1	2422	30~1000	0.21	-57.23	≤-29.79	PASS
11AX40SISO	Ant1	2422	1000~26500	0.21	-41.72	≤-29.79	PASS
11AX40SISO	Ant1	2437	0~Reference	0.47	0.47	---	PASS
11AX40SISO	Ant1	2437	30~1000	0.47	-56.48	≤-29.53	PASS
11AX40SISO	Ant1	2437	1000~26500	0.47	-41.61	≤-29.53	PASS
11AX40SISO	Ant1	2452	0~Reference	-0.26	-0.26	---	PASS
11AX40SISO	Ant1	2452	30~1000	-0.26	-56.4	≤-30.26	PASS

11AX40SISO	Ant1	2452	1000~26500	-0.26	-41.7	≤-30.26	PASS
------------	------	------	------------	-------	-------	---------	------



8.6 RADIATED SPURIOUS EMISSION

8.6.1 Applicable Standard

According to FCC Part 15.247(d), 15.205, 15.209 and KDB 558074 D01 15.247 Meas Guidancev05r02
According to IC RSS-Gen and RSS-247

8.6.2 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 (μV/m)	300
0.490-1.705	24000/F(KHz)	20 log (μV/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

8.6.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

8.6.4 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.

8.6.5 Test Results

Temperature:	25° C
Relative Humidity:	60%
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);

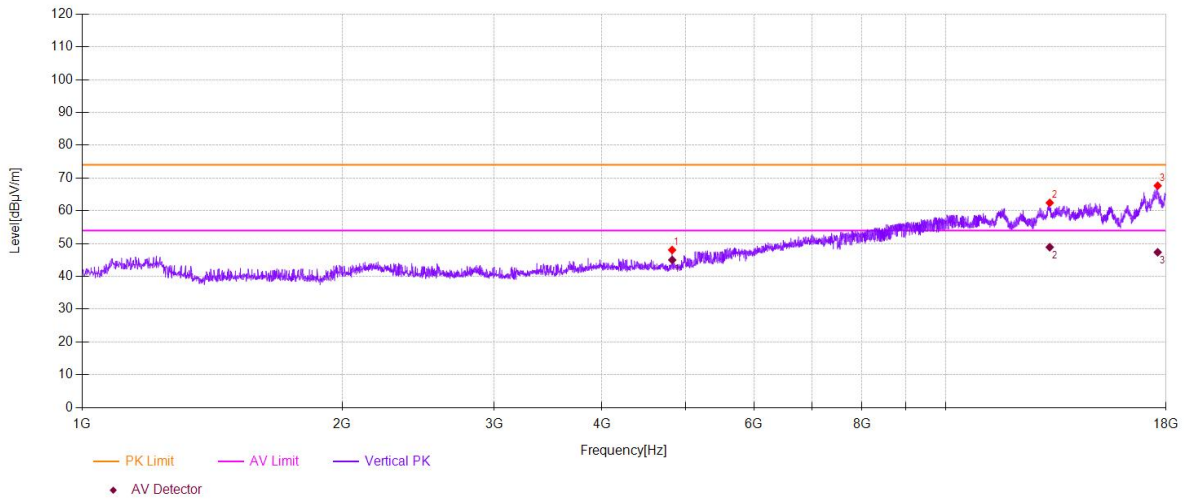
Limit line=Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz(1GHz to 25GHz)

All the antenna(Antenna 1)and modes(802.11b/g/n/ax)have been tested and the worst(Antenna 1,802.11b) result recorded was report as below:

no any obvious emission were detected from 18 GHz to 25 GHz, so below finaltest was performed with frequency range from 1GHz to 18 GHz.

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

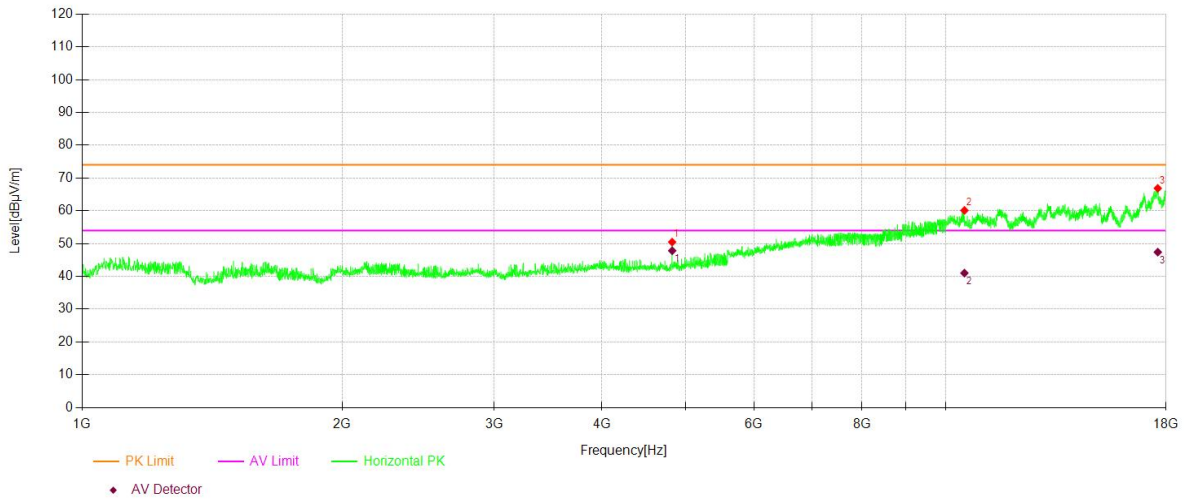


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4822.5	48.04	-12.34	74.00	25.96	PK	Vertical
2	13200	62.42	10.48	74.00	11.58	PK	Vertical
3	17604.375	67.64	12.10	74.00	6.36	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4823.9585	44.99	54.00	9.01	AV	Vertical
2	13200	48.89	54.00	5.11	AV	Vertical
3	17604.375	47.33	54.00	6.67	AV	Vertical



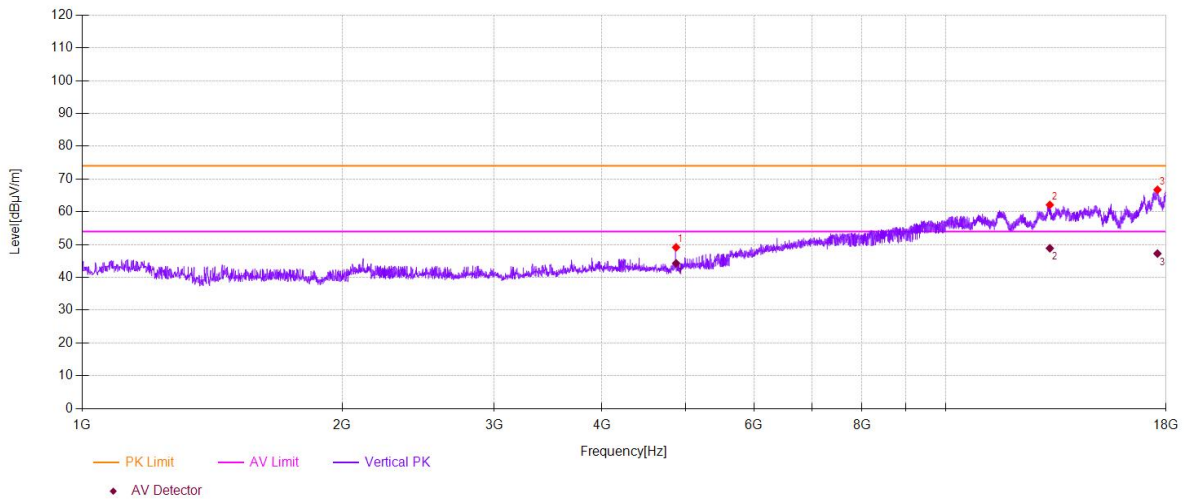
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4822.5	50.45	-12.34	74.00	23.55	PK	Horizontal
2	10515	60.10	2.77	74.00	13.90	PK	Horizontal
3	17608.125	66.85	12.02	74.00	7.15	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4823.9785	47.81	54.00	6.19	AV	Horizontal
2	10515	40.99	54.00	13.01	AV	Horizontal
3	17608.125	47.38	54.00	6.62	AV	Horizontal

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

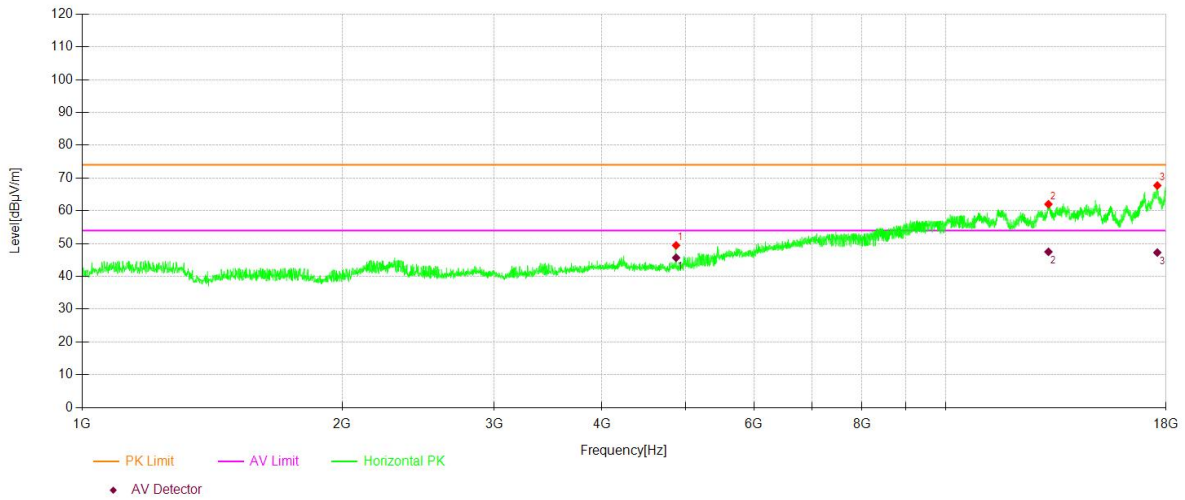


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4873.125	49.15	-12.34	74.00	24.85	PK	Vertical
2	13203.75	62.09	10.31	74.00	11.91	PK	Vertical
3	17593.125	66.71	12.12	74.00	7.29	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4873.9342	44.28	54.00	9.72	AV	Vertical
2	13203.75	48.87	54.00	5.13	AV	Vertical
3	17593.125	47.25	54.00	6.75	AV	Vertical



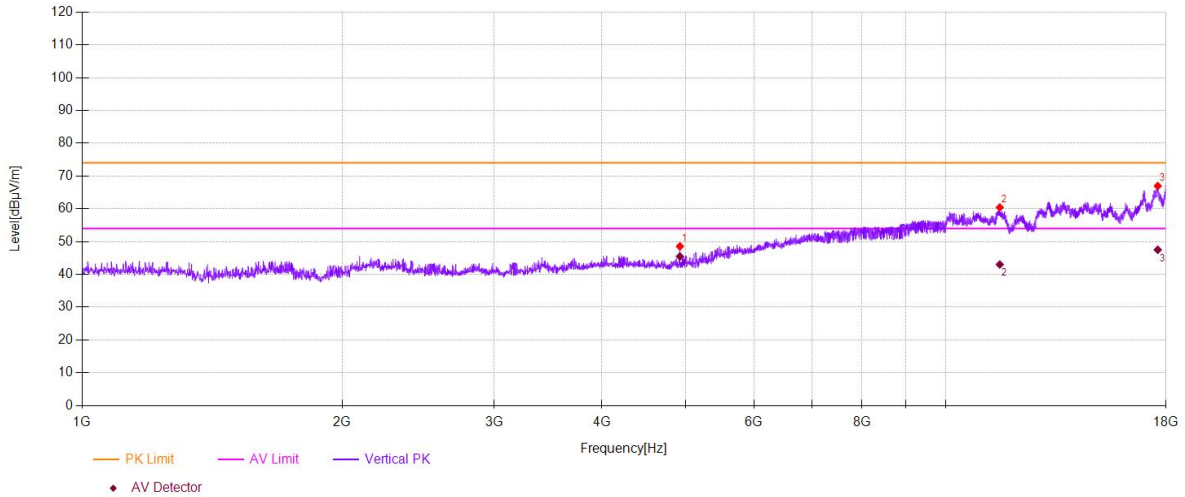
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4873.125	49.43	-12.34	74.00	24.57	PK	Horizontal
2	13155	62.00	9.36	74.00	12.00	PK	Horizontal
3	17585.625	67.70	12.03	74.00	6.30	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4873.9891	45.68	54.00	8.32	AV	Horizontal
2	13155	47.48	54.00	6.52	AV	Horizontal
3	17585.625	47.25	54.00	6.75	AV	Horizontal

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

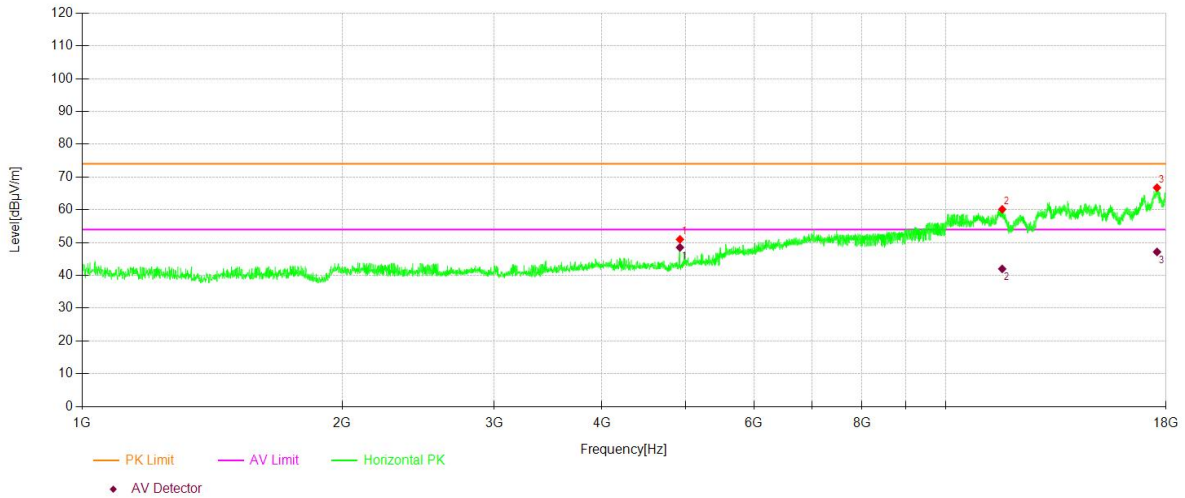


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4923.75	48.54	-12.29	74.00	25.46	PK	Vertical
2	11553.75	60.42	4.31	74.00	13.58	PK	Vertical
3	17606.25	66.96	12.07	74.00	7.04	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4923.9348	45.45	54.00	8.55	AV	Vertical
2	11553.75	43.00	54.00	11.00	AV	Vertical
3	17606.25	47.50	54.00	6.50	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4923.75	50.96	-12.29	74.00	23.04	PK	Horizontal
2	11628.75	60.13	3.47	74.00	13.87	PK	Horizontal
3	17572.5	66.73	11.89	74.00	7.27	PK	Horizontal

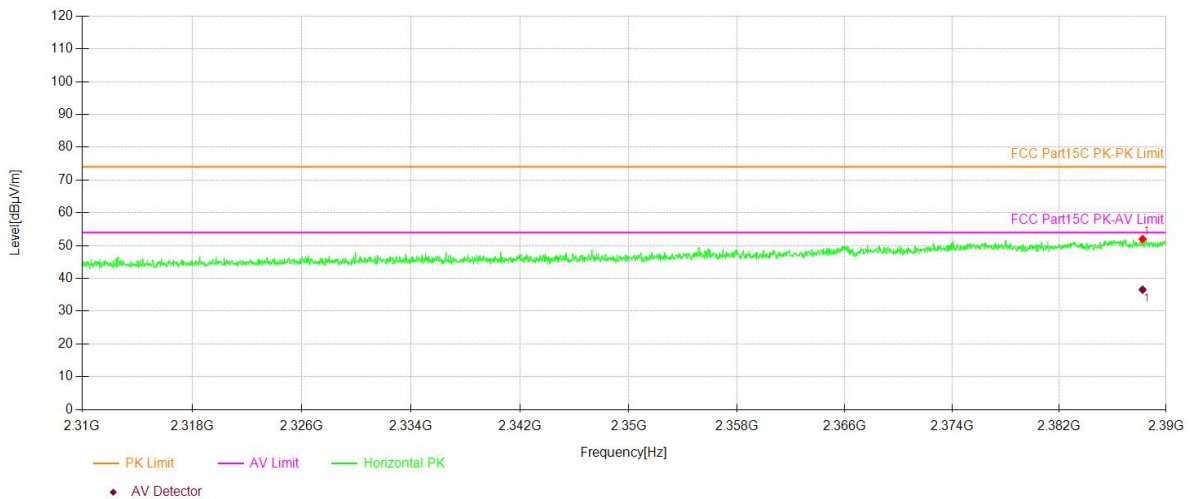
AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4923.9748	48.50	54.00	5.50	AV	Horizontal
2	11628.75	41.96	54.00	12.04	AV	Horizontal
3	17572.5	47.15	54.00	6.85	AV	Horizontal

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

All the antenna(Antenna 1) and modes(802.11b/g/n/ax) have been tested and the worst(Antenna 1,802.11n(HT20)) result recorded was report as below:

Test Model 802.11n(HT20) Spurious Emission in Restricted Band 2310-2390MHz
Channel 1: 2412MHz VBW=3MHz Polarity: H



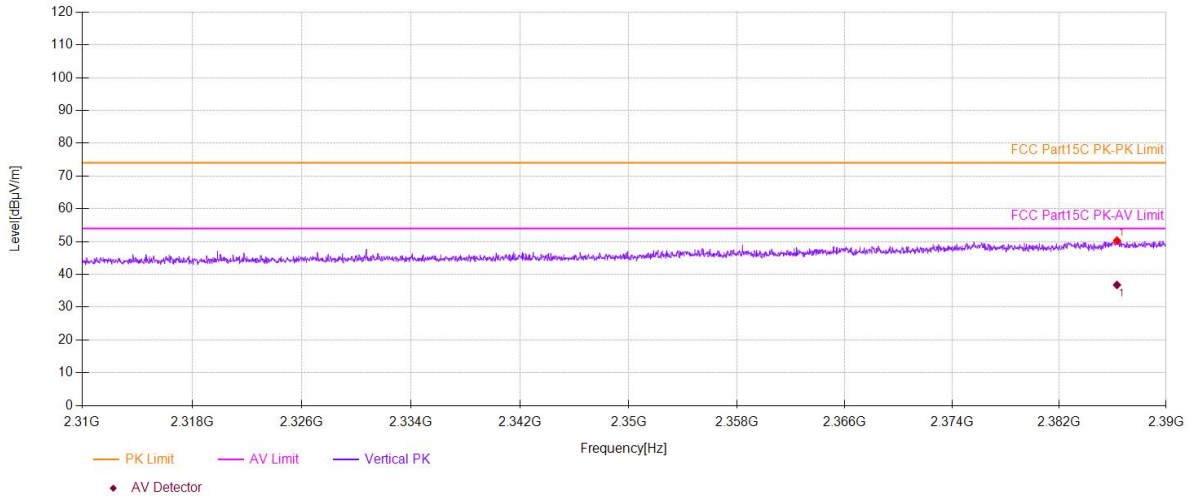
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.2394	51.99	30.28	74.00	22.01	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2388.2394	36.53	54.00	17.47	AV	Horizontal

Test Model 802.11n(HT20) Spurious Emission in Restricted Band 2310-2390MHz
Channel 1: 2412MHz VBW=3MHz Polarity: V



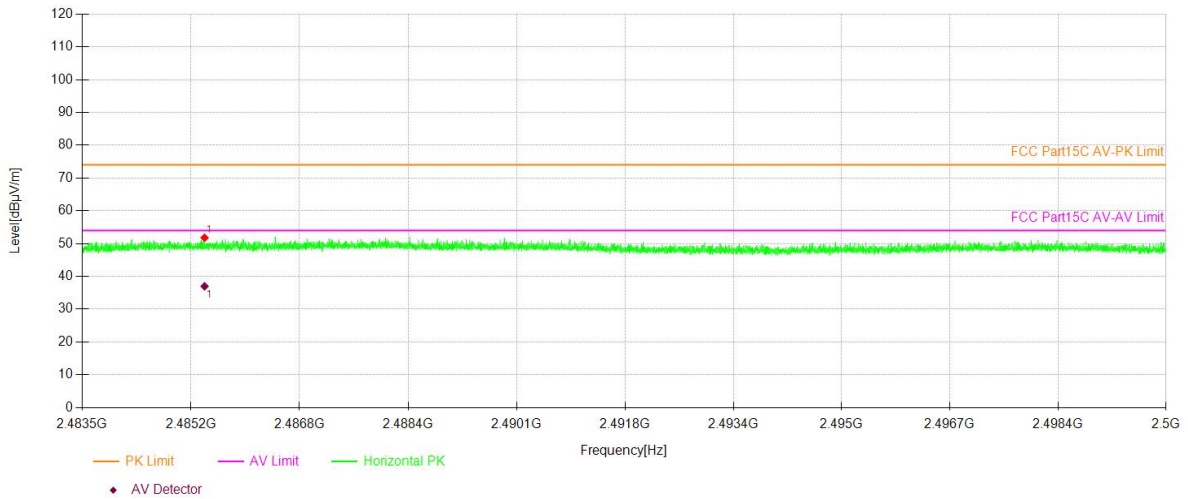
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2386.3188	50.29	30.29	74.00	23.71	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2386.3188	36.77	54.00	17.23	AV	Vertical

Test Model 802.11n(HT20) Spurious Emission in Restricted Band 2483.5-2500MHz
Channel 11: 2462MHz VBW=3MHz Polarity: H



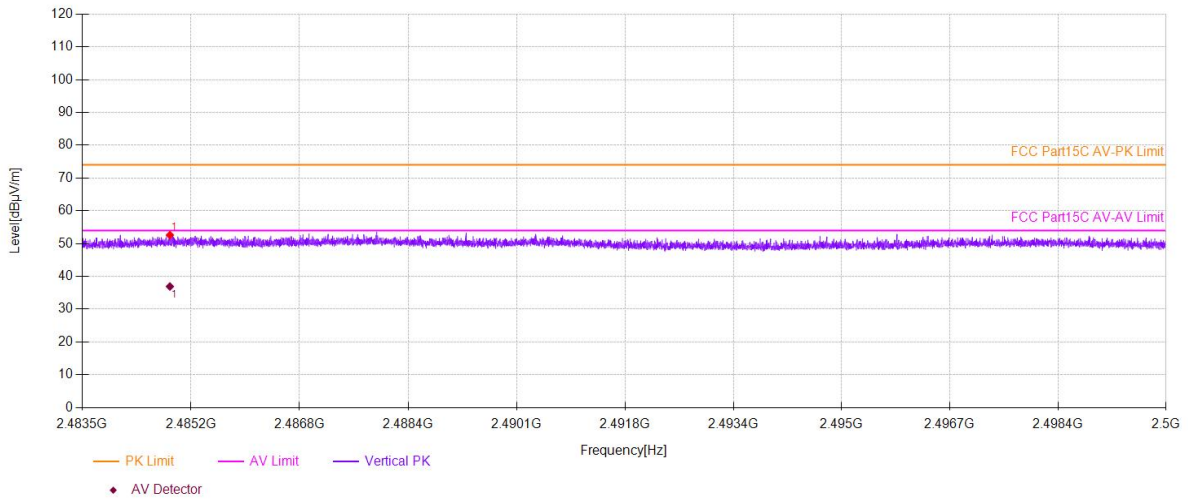
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2485.3579	51.76	30.12	74.00	22.24	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2485.3579	36.96	54.00	17.04	AV	Horizontal

Test Model 802.11n(HT20) Spurious Emission in Restricted Band 2483.5-2500MHz
Channel 11: 2462MHz VBW=3MHz Polarity: V



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2484.8316	52.59	30.12	74.00	21.41	PK	Vertical

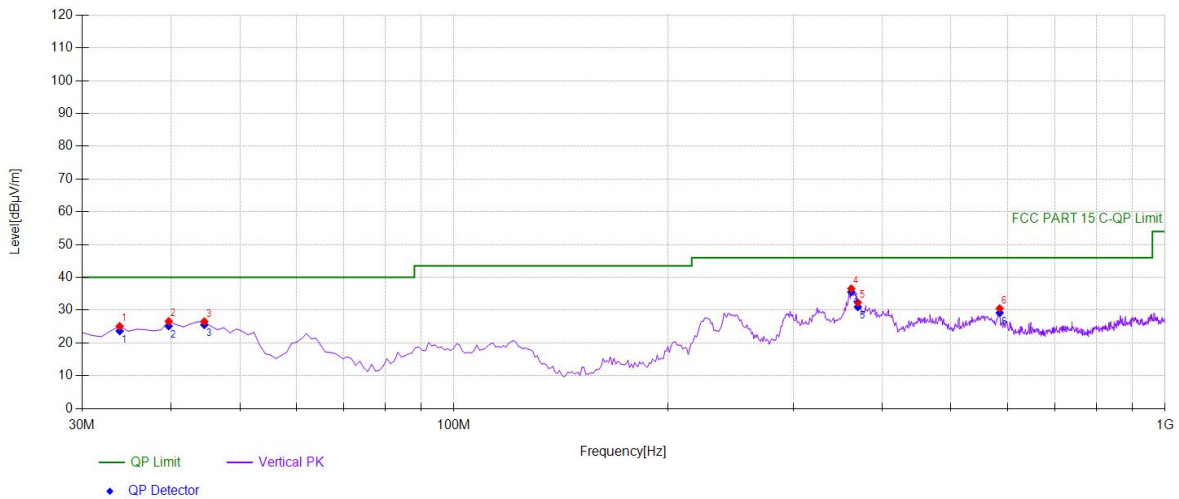
AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2484.8316	36.90	54.00	17.10	AV	Vertical

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

All the antenna(Antenna 1) and modes(802.11b/g/n/ax) have been tested and the worst(Antenna 1,802.11b) result recorded was report as below:

Mode:	11B 2412
-------	----------



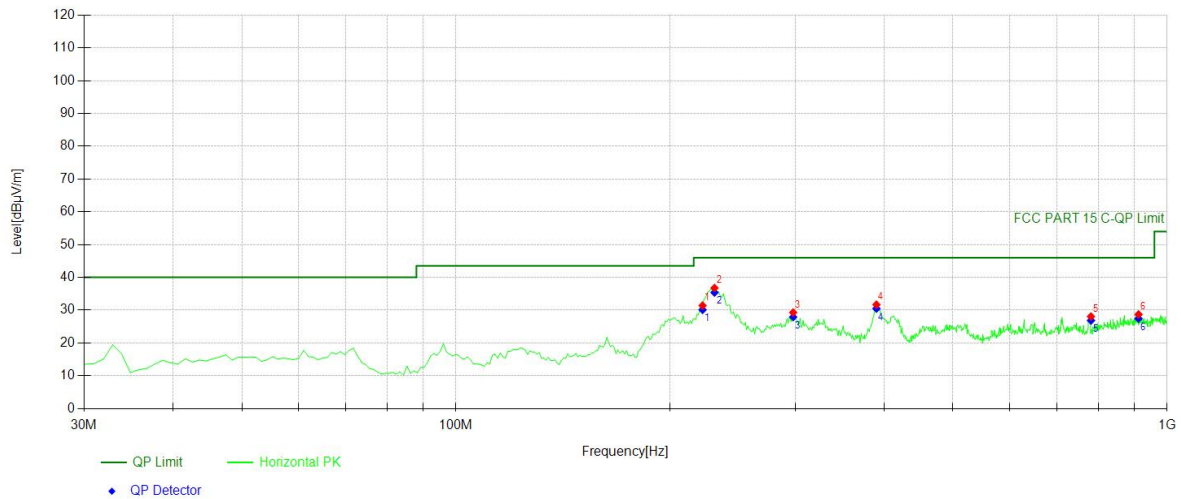
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	38.26	-13.19	25.07	PK	40.00	14.93	Vertical
2	39.7097	38.89	-12.31	26.58	PK	40.00	13.42	Vertical
3	44.5646	38.05	-11.53	26.52	PK	40.00	13.48	Vertical
4	362.072	43.11	-6.56	36.55	PK	46.00	9.45	Vertical
5	369.839	38.57	-6.26	32.31	PK	46.00	13.69	Vertical
6	585.395	31.56	-1.06	30.50	PK	46.00	15.50	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-13.19	23.63	40.00	16.37
2	39.7097	-12.31	25.14	40.00	14.86
3	44.5646	-11.53	25.50	40.00	14.50
4	362.0721	-6.56	35.53	46.00	10.47
5	369.8398	-6.26	30.97	46.00	15.03
6	585.3954	-1.06	29.16	46.00	16.84

Mode:	11B 2412
-------	----------



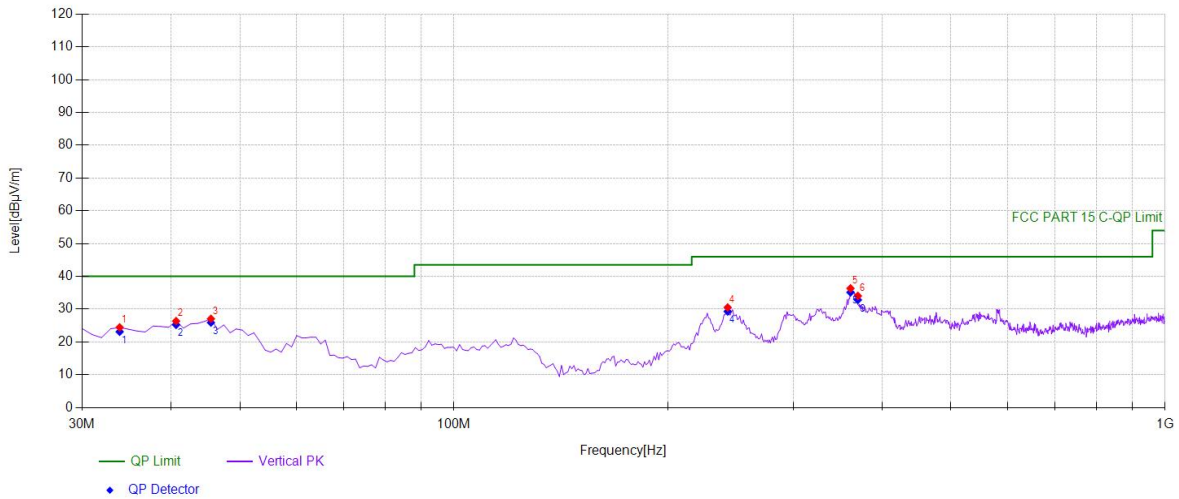
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	222.252	42.40	-11.00	31.40	PK	46.00	14.60	Horizontal
2	230.991	47.46	-10.71	36.75	PK	46.00	9.25	Horizontal
3	297.988	37.59	-8.31	29.28	PK	46.00	16.72	Horizontal
4	390.230	37.30	-5.63	31.67	PK	46.00	14.33	Horizontal
5	781.531	29.10	-1.05	28.05	PK	46.00	17.95	Horizontal
6	911.641	25.88	2.80	28.68	PK	46.00	17.32	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	222.2523	-11.00	30.09	46.00	15.91
2	230.991	-10.71	35.36	46.00	10.64
3	297.988	-8.31	27.89	46.00	18.11
4	390.2302	-5.63	30.46	46.00	15.54
5	781.5315	-1.05	26.84	46.00	19.16
6	911.6416	2.80	27.39	46.00	18.61

Mode:	11B 2437
-------	----------



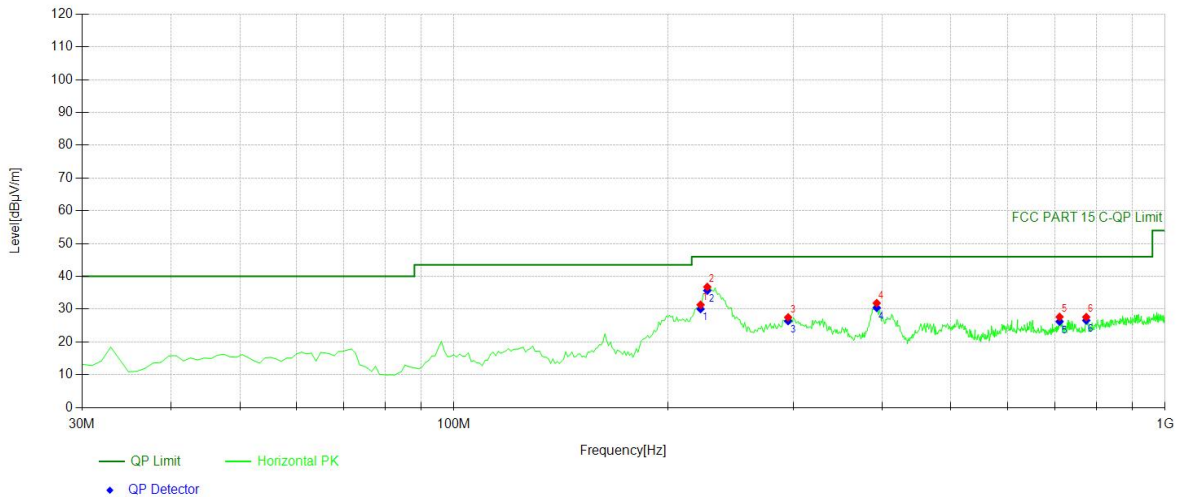
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	37.61	-13.19	24.42	PK	40.00	15.58	Vertical
2	40.6807	38.50	-12.15	26.35	PK	40.00	13.65	Vertical
3	45.5355	38.42	-11.38	27.04	PK	40.00	12.96	Vertical
4	242.642	40.89	-10.39	30.50	PK	46.00	15.50	Vertical
5	361.101	42.92	-6.59	36.33	PK	46.00	9.67	Vertical
6	369.839	40.28	-6.26	34.02	PK	46.00	11.98	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-13.19	23.11	40.00	16.89
2	40.6807	-12.15	25.22	40.00	14.78
3	45.5355	-11.38	25.91	40.00	14.09
4	242.6426	-10.39	29.29	46.00	16.71
5	361.1011	-6.59	35.12	46.00	10.88
6	369.8398	-6.26	32.81	46.00	13.19

Mode:	11B 2437
-------	----------



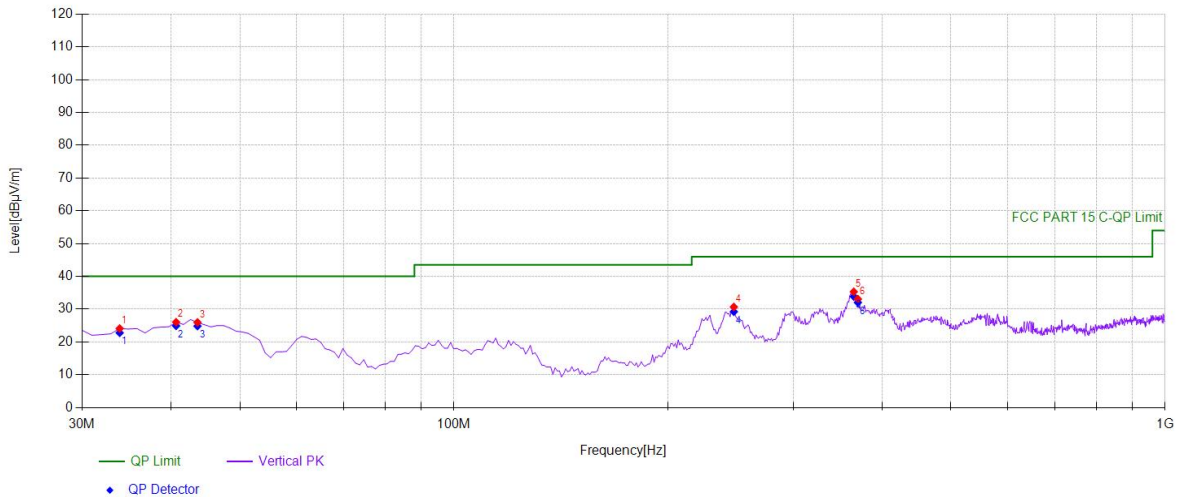
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	222.252	42.32	-11.00	31.32	PK	46.00	14.68	Horizontal
2	227.107	47.61	-10.84	36.77	PK	46.00	9.23	Horizontal
3	295.075	35.96	-8.48	27.48	PK	46.00	18.52	Horizontal
4	393.143	37.43	-5.60	31.83	PK	46.00	14.17	Horizontal
5	710.650	27.82	-0.19	27.63	PK	46.00	18.37	Horizontal
6	774.734	28.64	-1.07	27.57	PK	46.00	18.43	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	222.2523	-11.00	30.03	46.00	15.97
2	227.1071	-10.84	35.66	46.00	10.34
3	295.0751	-8.48	26.37	46.00	19.63
4	393.1431	-5.60	30.40	46.00	15.60
5	710.6507	-0.19	26.20	46.00	19.80
6	774.7347	-1.07	26.55	46.00	19.45

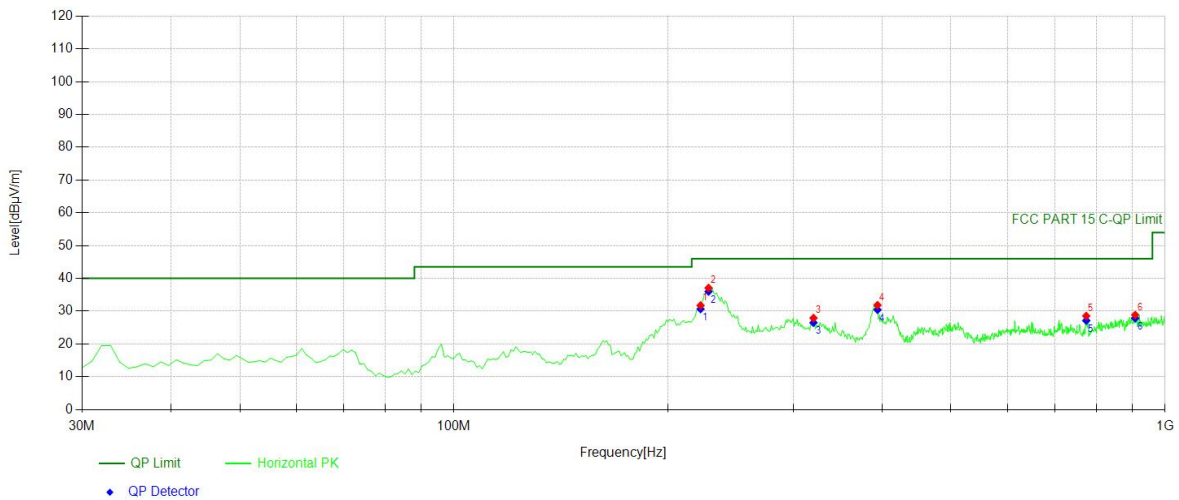
Mode:	11B 2462
-------	----------



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	37.28	-13.19	24.09	PK	40.00	15.91	Vertical
2	40.6807	38.19	-12.15	26.04	PK	40.00	13.96	Vertical
3	43.5936	37.64	-11.68	25.96	PK	40.00	14.04	Vertical
4	247.497	41.04	-10.37	30.67	PK	46.00	15.33	Vertical
5	364.985	41.74	-6.45	35.29	PK	46.00	10.71	Vertical
6	369.839	39.33	-6.26	33.07	PK	46.00	12.93	Vertical

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-13.19	22.77	40.00	17.23
2	40.6807	-12.15	24.90	40.00	15.10
3	43.5936	-11.68	24.82	40.00	15.18
4	247.4975	-10.37	29.21	46.00	16.79
5	364.985	-6.45	33.83	46.00	12.17
6	369.8398	-6.26	32.03	46.00	13.97

Mode:	11B 2462
-------	----------



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	222.252	42.73	-11.00	31.73	PK	46.00	14.27	Horizontal
2	228.078	47.88	-10.81	37.07	PK	46.00	8.93	Horizontal
3	320.320	35.86	-7.97	27.89	PK	46.00	18.11	Horizontal
4	394.114	37.41	-5.59	31.82	PK	46.00	14.18	Horizontal
5	774.734	29.60	-1.07	28.53	PK	46.00	17.47	Horizontal
6	907.757	26.07	2.75	28.82	PK	46.00	17.18	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	222.2523	-11.00	30.63	46.00	15.37
2	228.0781	-10.81	35.97	46.00	10.03
3	320.3203	-7.97	26.47	46.00	19.53
4	394.1141	-5.59	30.40	46.00	15.60
5	774.7347	-1.07	27.11	46.00	18.89
6	907.7578	2.75	27.82	46.00	18.18

8.7 CONDUCTED EMISSION TEST

8.7.1 Applicable Standard

According to FCC Part 15.207(a)

According to IC RSS-Gen 8.8

8.7.2 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.

8.7.3 Test Configuration

Test according to clause 6.3conducted emission test setup

8.7.4 Test Procedure

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

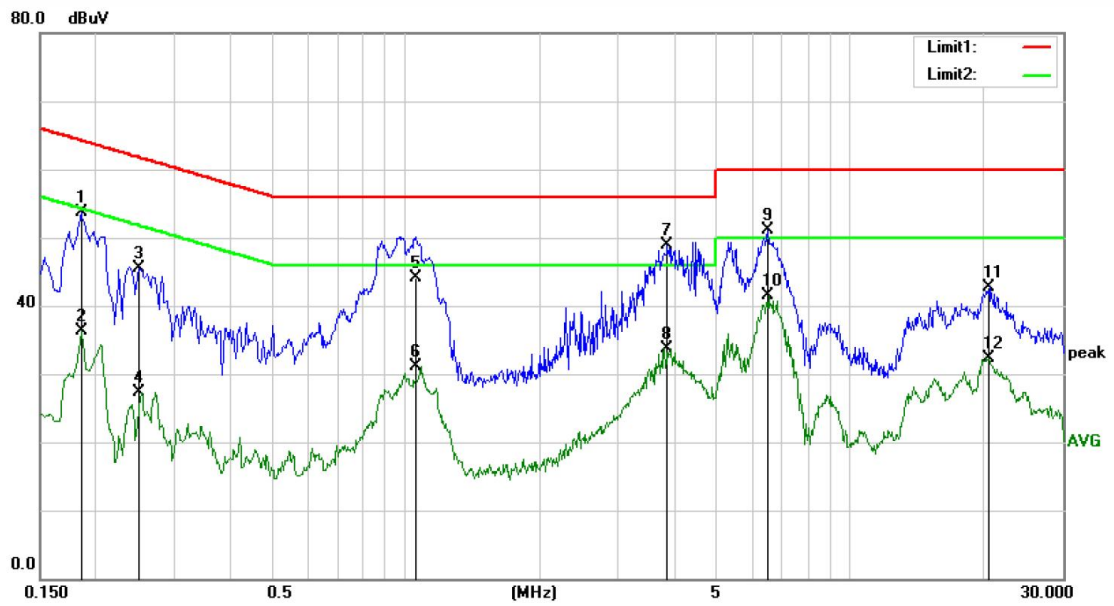
Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

8.7.5 Test Results

Pass

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



Site Conduction #1

Phase: **N**

Temperature: 23.2

Limit: (CE)FCC PART 15 class B_QP

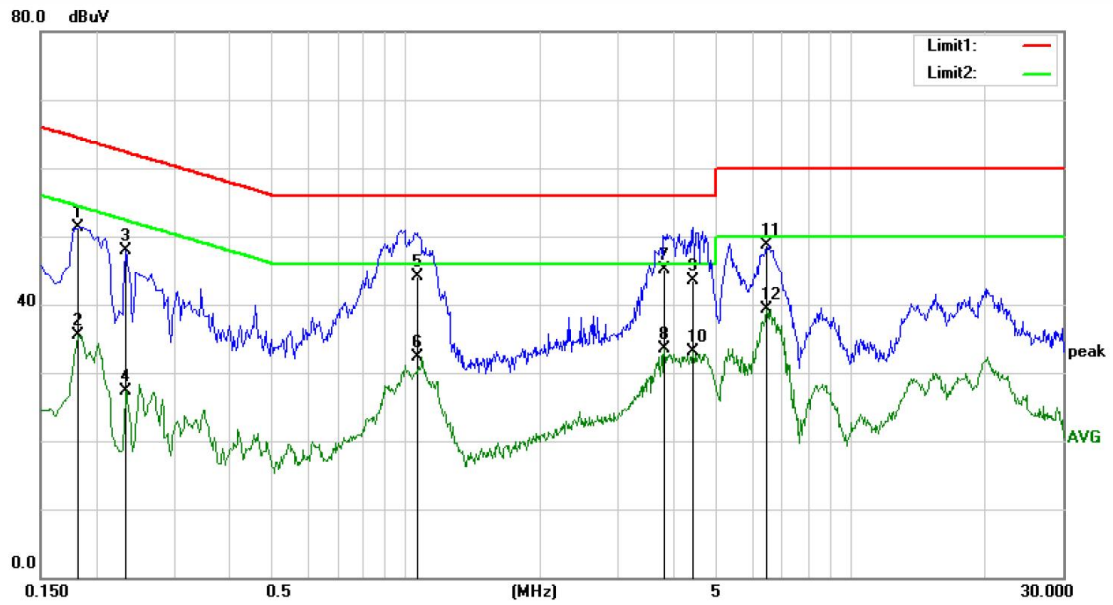
Power: AC 120V/60Hz

Humidity: 64 %

Mode: WiFi mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1860	43.92	9.71	53.63	64.21	-10.58	QP	
2		0.1860	26.68	9.71	36.39	54.21	-17.82	AVG	
3		0.2500	35.71	9.80	45.51	61.76	-16.25	QP	
4		0.2500	17.59	9.80	27.39	51.76	-24.37	AVG	
5		1.0500	34.31	9.89	44.20	56.00	-11.80	QP	
6		1.0500	21.12	9.89	31.01	46.00	-14.99	AVG	
7	*	3.8620	38.84	9.98	48.82	56.00	-7.18	QP	
8		3.8620	23.79	9.98	33.77	46.00	-12.23	AVG	
9		6.4900	40.89	10.20	51.09	60.00	-8.91	QP	
10		6.4900	31.23	10.20	41.43	50.00	-8.57	AVG	
11		20.4020	31.87	10.84	42.71	60.00	-17.29	QP	
12		20.4020	21.51	10.84	32.35	50.00	-17.65	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 23.2

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 64 %

Mode: WiFi mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1820	41.69	9.68	51.37	64.39	-13.02	QP	
2		0.1820	25.73	9.68	35.41	54.39	-18.98	AVG	
3		0.2340	38.18	9.80	47.98	62.31	-14.33	QP	
4		0.2340	17.58	9.80	27.38	52.31	-24.93	AVG	
5		1.0620	34.31	9.89	44.20	56.00	-11.80	QP	
6		1.0620	22.35	9.89	32.24	46.00	-13.76	AVG	
7		3.8140	35.22	9.98	45.20	56.00	-10.80	QP	
8		3.8140	23.56	9.98	33.54	46.00	-12.46	AVG	
9		4.4140	33.58	10.02	43.60	56.00	-12.40	QP	
10		4.4140	23.04	10.02	33.06	46.00	-12.94	AVG	
11		6.4700	38.58	10.20	48.78	60.00	-11.22	QP	
12	*	6.4700	29.17	10.20	39.37	50.00	-10.63	AVG	

8.8 ANTENNA APPLICATION

8.8.1 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.
FCC 47 CFR Part 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.
RSS-Gen Section 6.8	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.
RSS-247 Section 5.4	If the transmitter employs an antenna system that emits multiple directional beams, but does not emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device (i.e. the sum of the power supplied to all antennas, antenna elements, staves, etc., and summed across all carriers or frequency channels) shall not exceed the applicable output power limit. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or stave having the highest gain.

8.8.2 Result

PASS.

- Note:
- ☒ Antenna use 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)

Please refer to the attached document Internal Photos to show the antenna connector.

*** End of Report ***

9 APPENDIX PHOTOGRAPHS OF EUT

Please refer to the file of External Photo and Internal Photo.



10 APPENDIX PHOTOGRAPHS OF TEST SETUP

Please refer to the file of Test Setup Photo.



声 明

Statement

1. 本报告无授权批准人签字及“检验检测专用章”无效；

This report is invalid without the signature of the authorized approver and the "special seal for testing".

2. 未经许可本报告不得部分复制；

This report shall not be copied partly without authorization.

3. 本报告的检测结果仅对送测样品有效，委托方对样品的代表性和资料的真实性负责；

The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the samples and the authenticity of the material.

4. 本检测报告中检测项目标注有特殊符号则该项目不在资质认定范围内，仅作为客户委托、科研、教学或内部质量控制等目的使用；

The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.

5. 本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，本实验室不承担相关责任，特别约定、标准或规范中有明确规定的除外；

The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, EMTEK shall not assume any responsibility.

6. 对本检验报告若有异议，请于收到报告之日起 20 日内提出。

Objections shall be raised within 20 days from the date receiving the report.