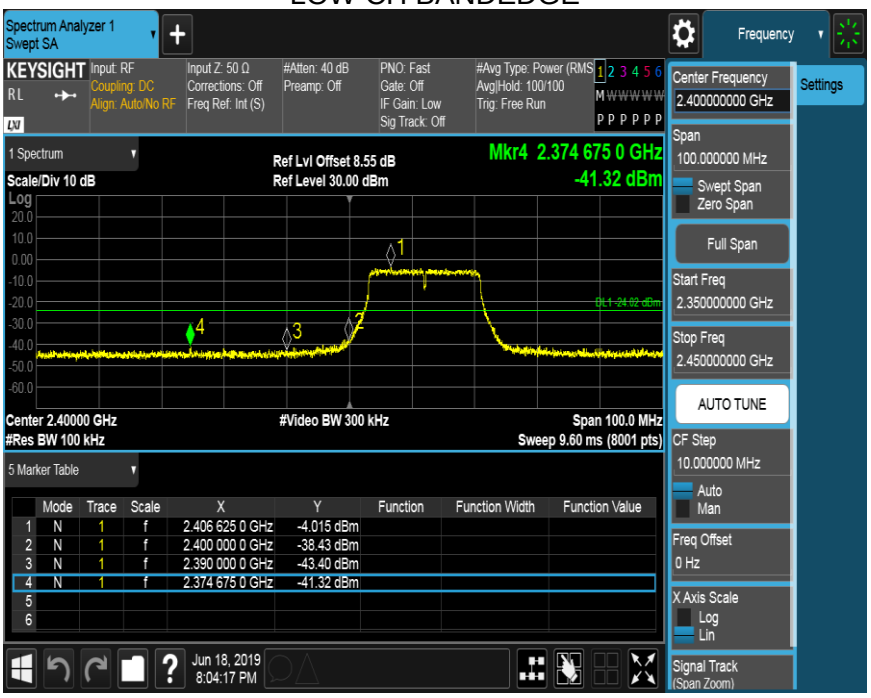
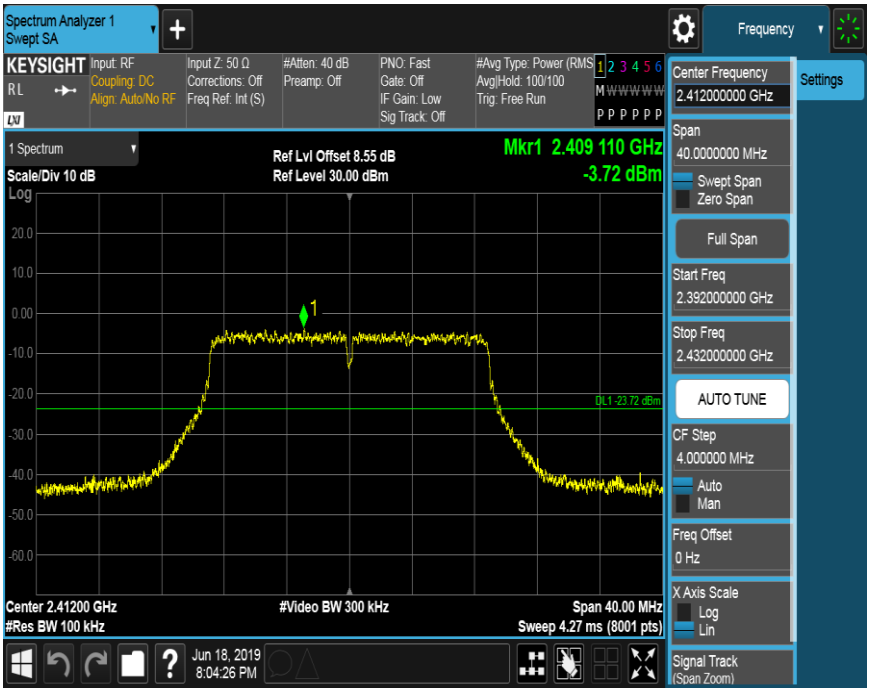
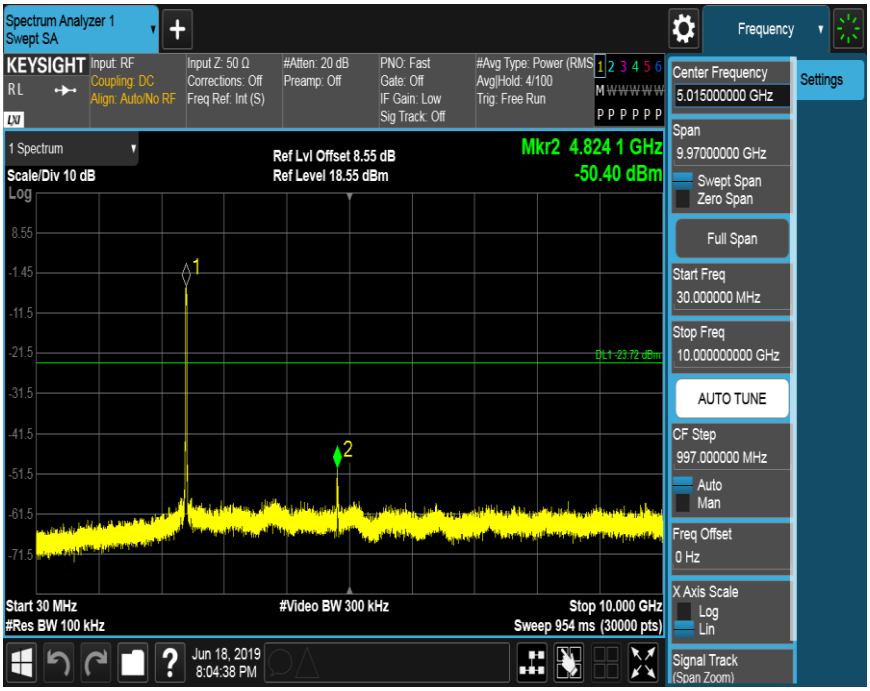
8.5.1. 802.11n HT20 MODE

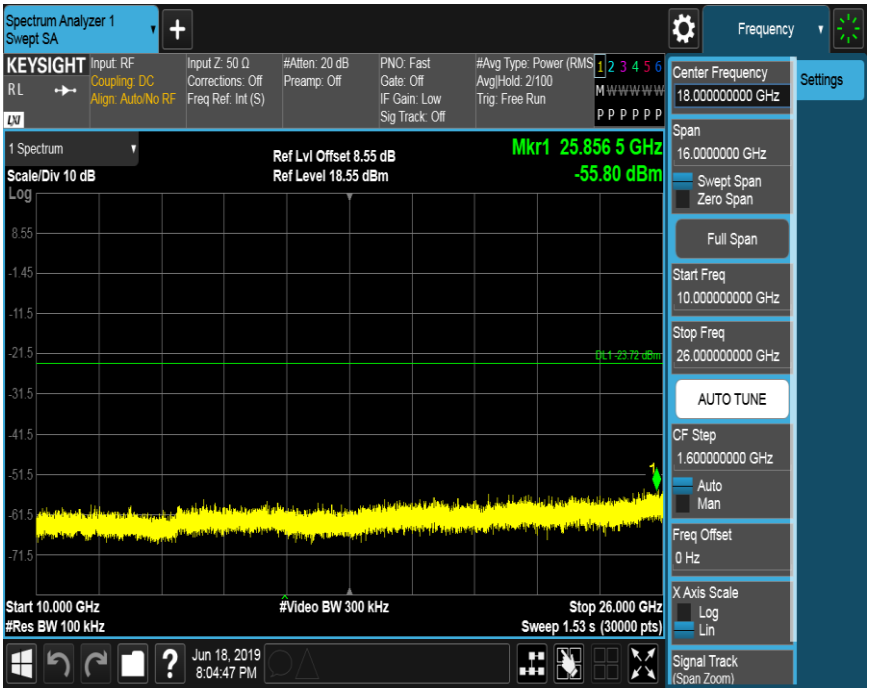
LOW CH BANDEDGE



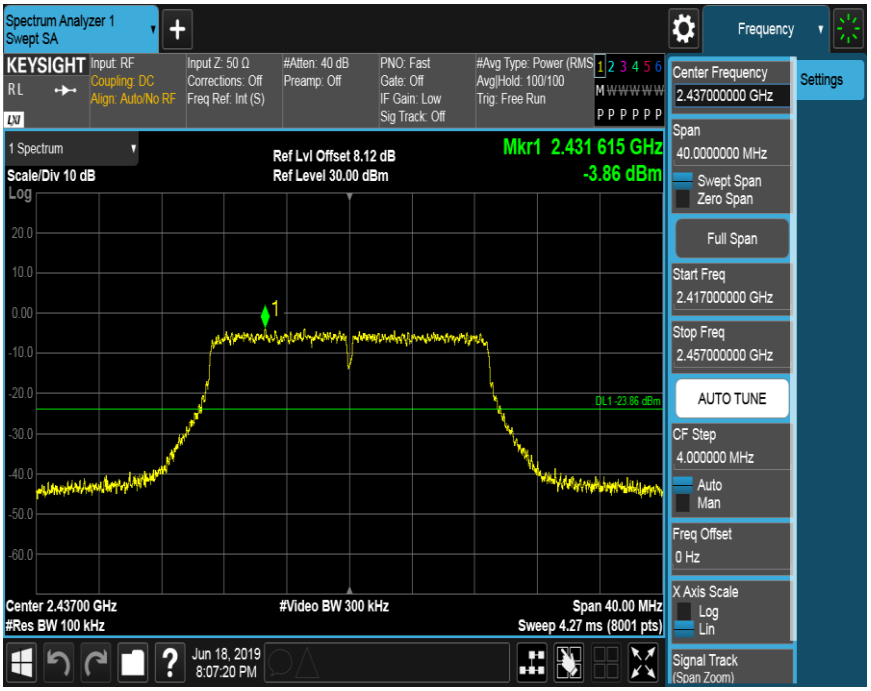
LOW CH SPURIOUS EMISSIONS

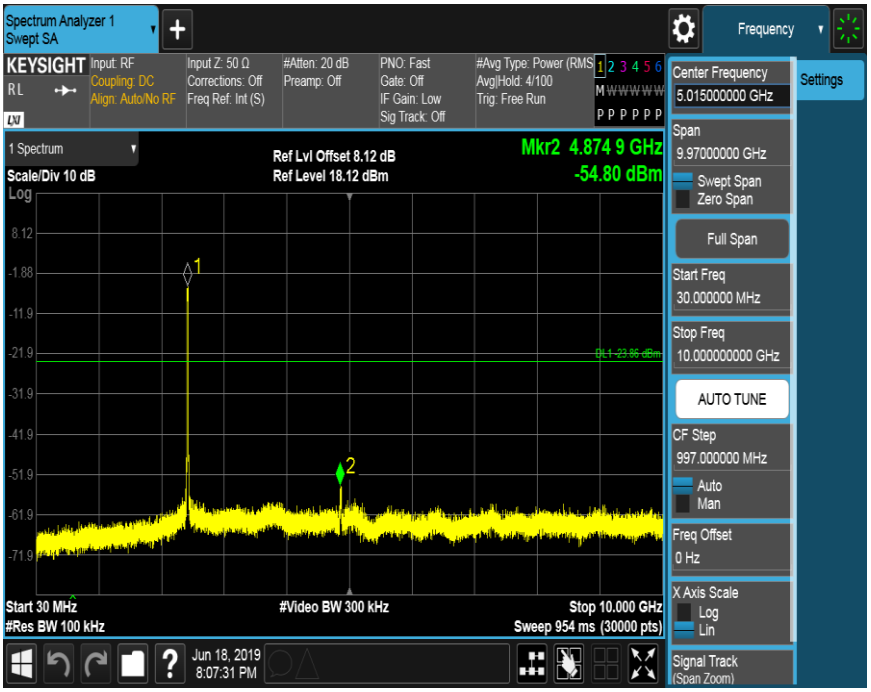


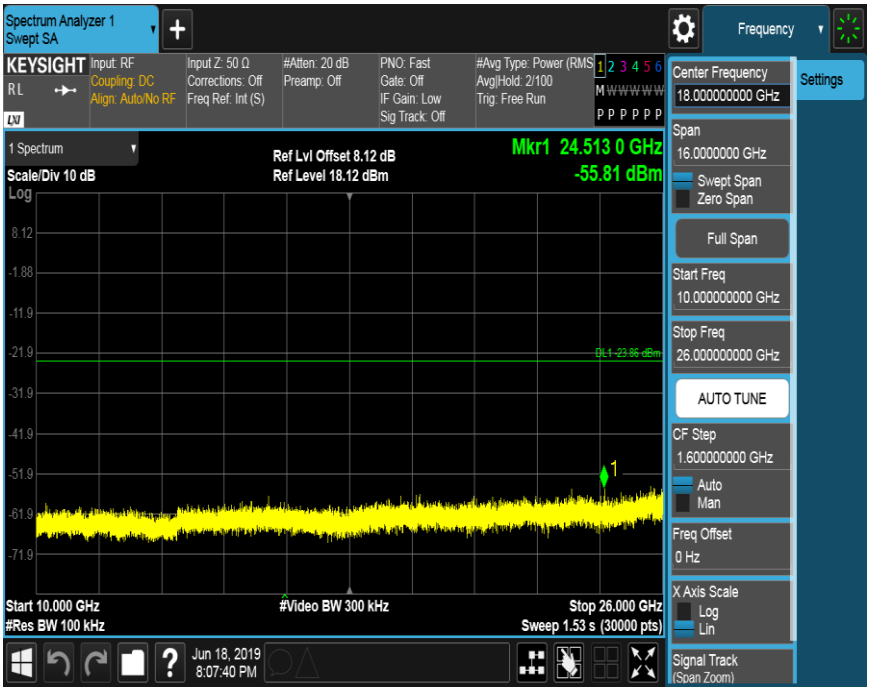




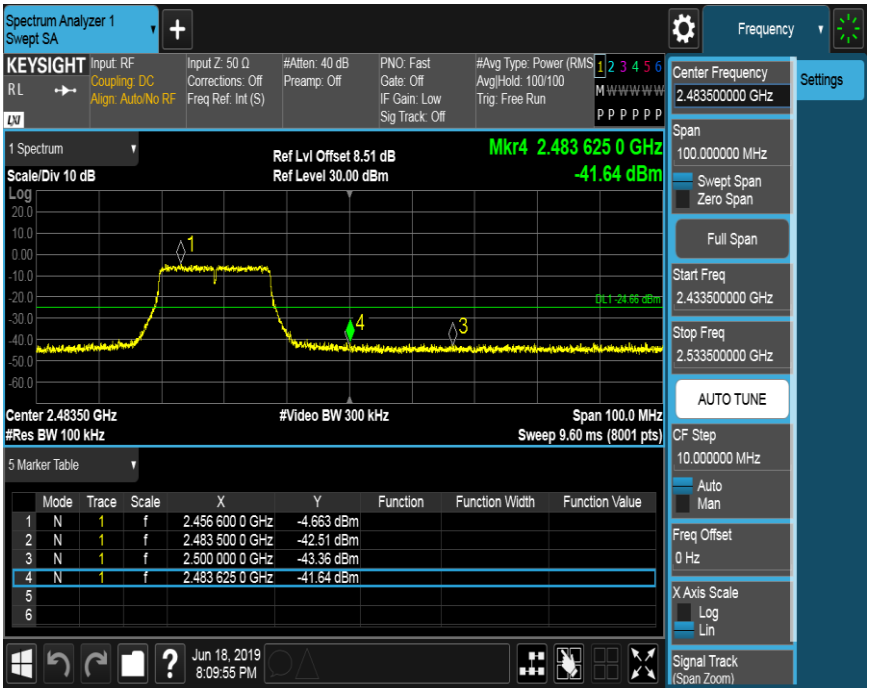
MID CH SPURIOUS EMISSIONS



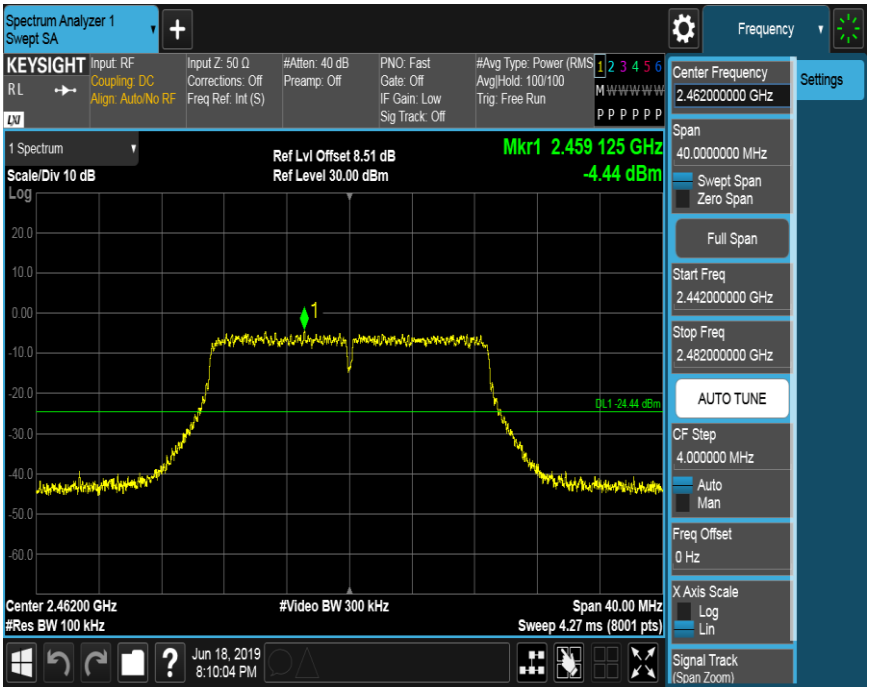


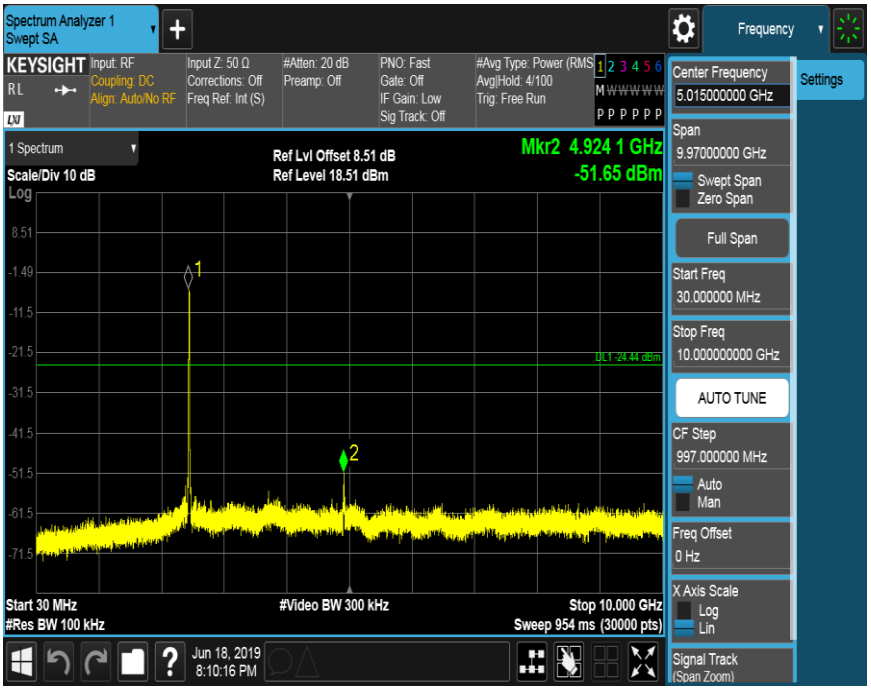


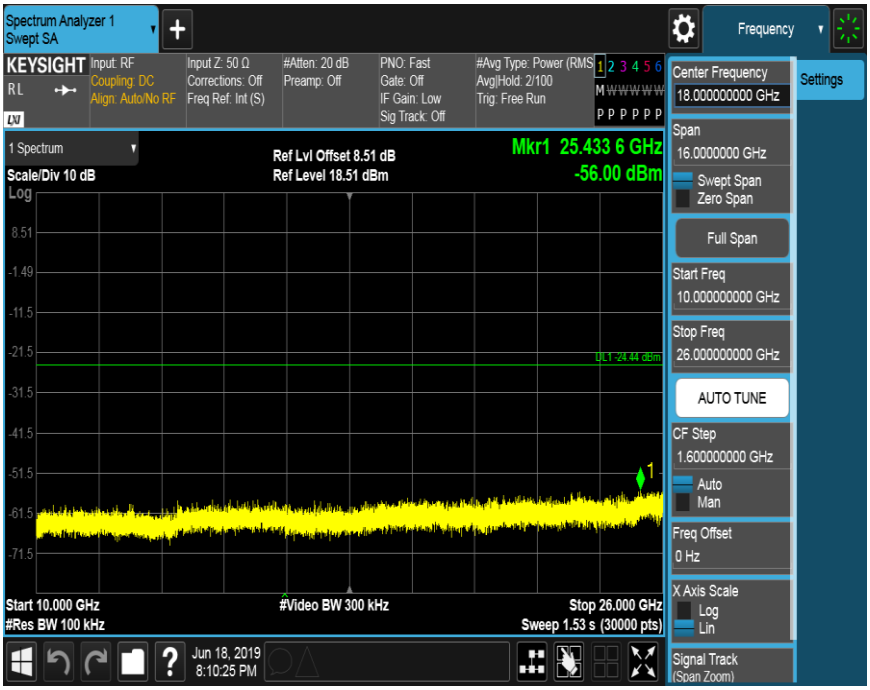
HIGH CH BANDEDGE



HIGH CH SPURIOUS EMISSIONS

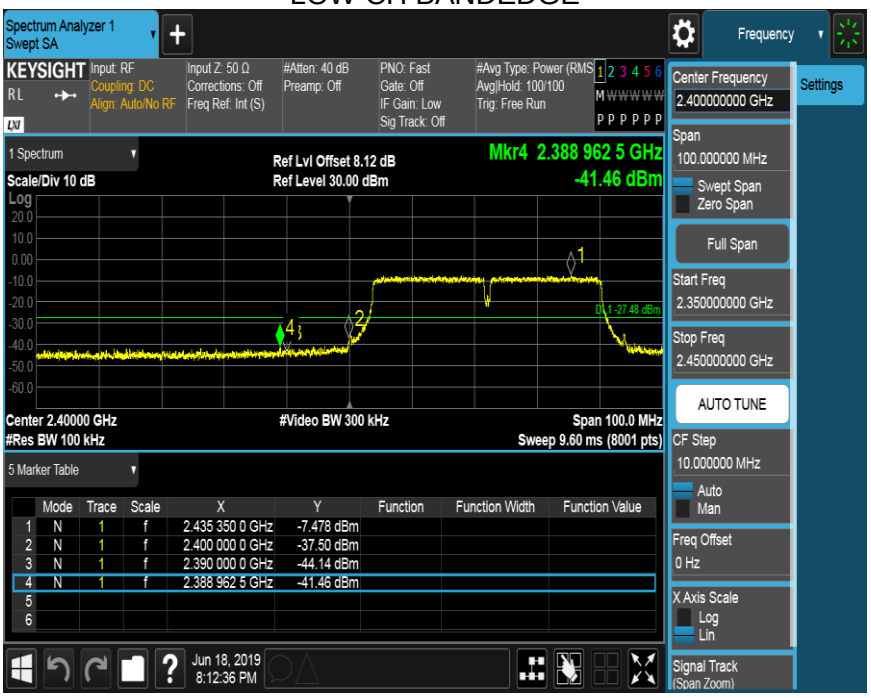




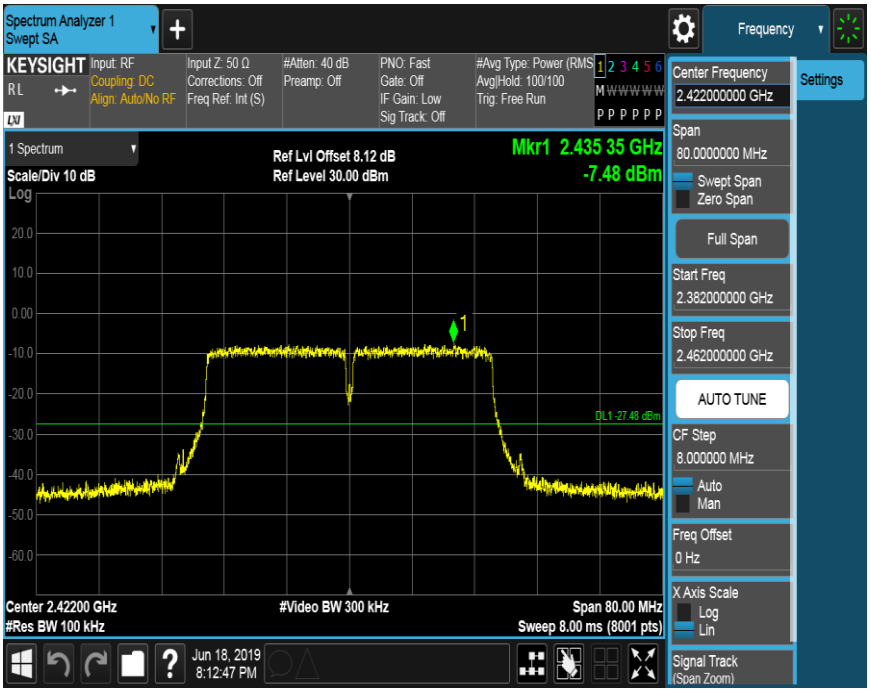


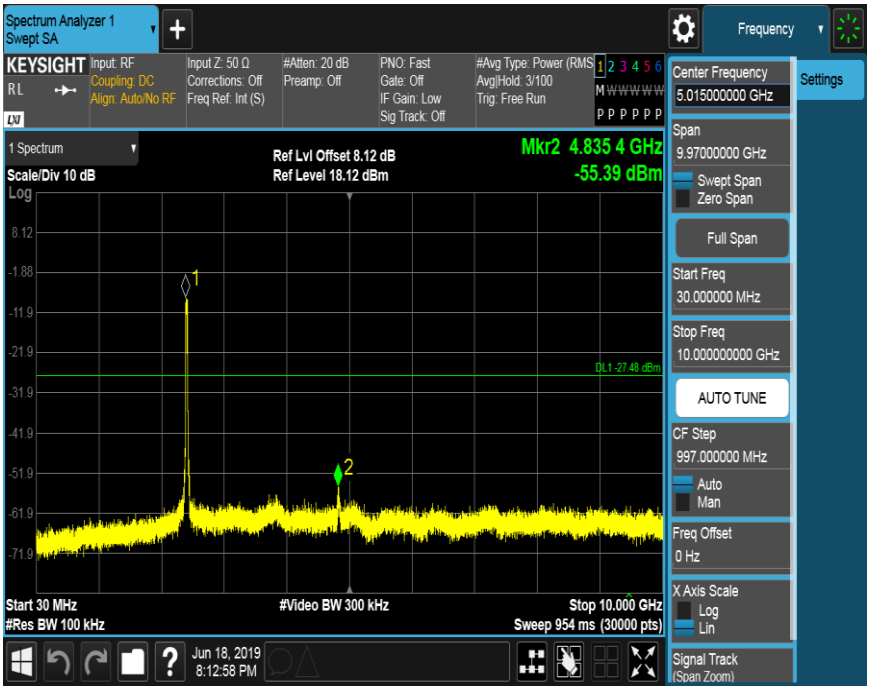
8.5.1. 802.11n HT40 MODE

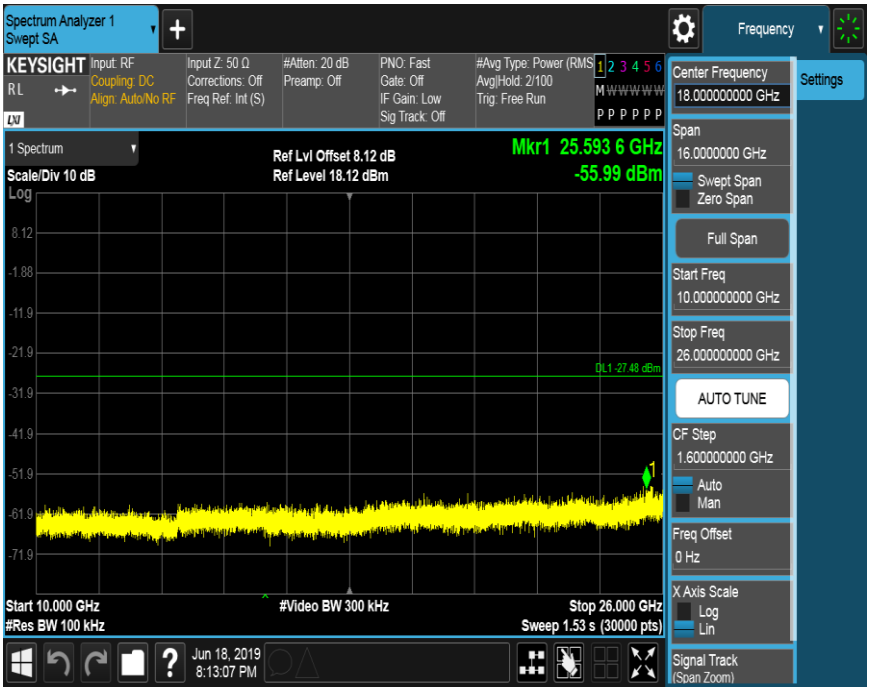
LOW CH BANDEDGE



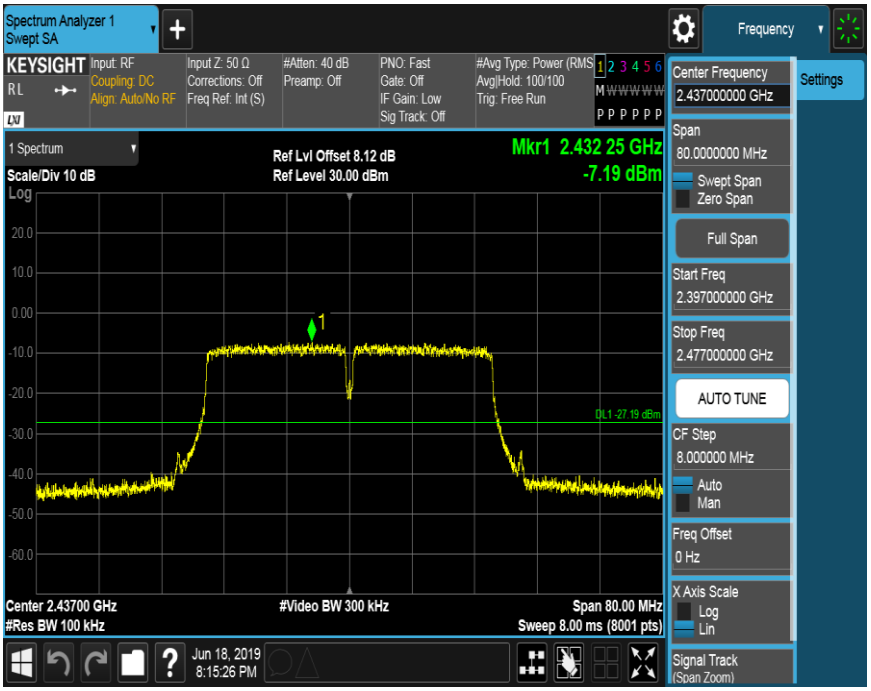
LOW CH SPURIOUS EMISSIONS

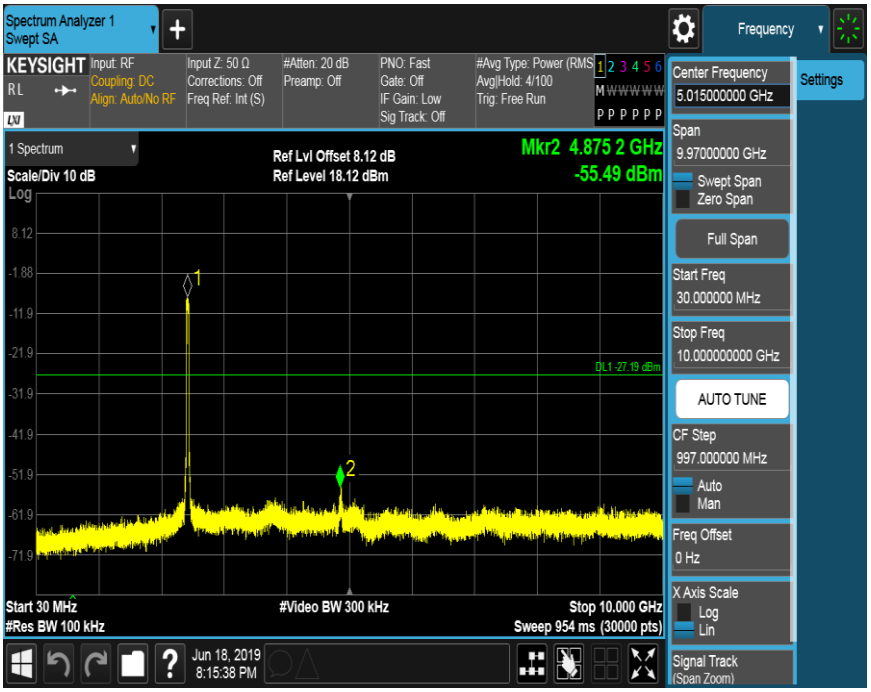


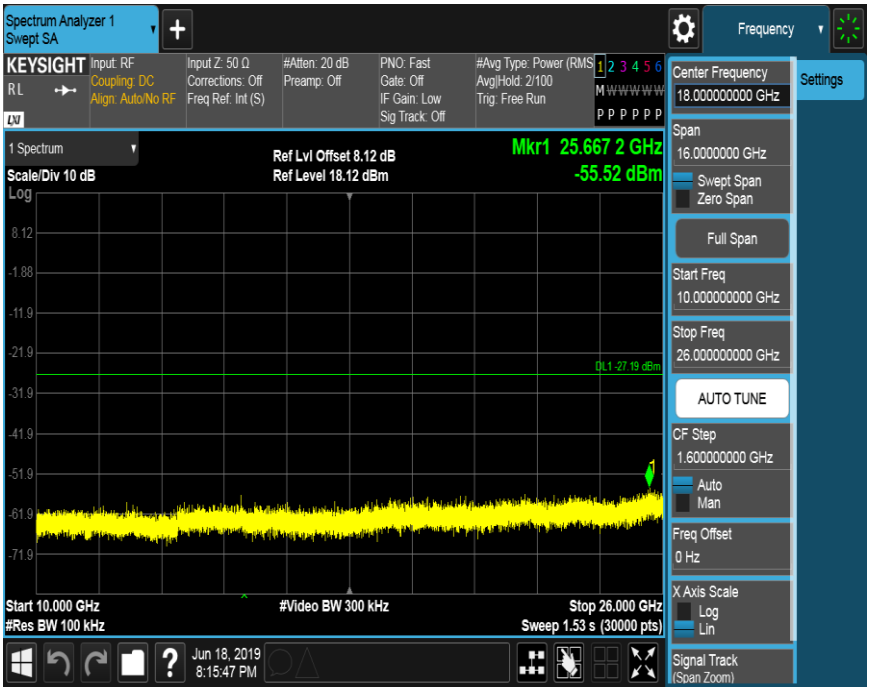




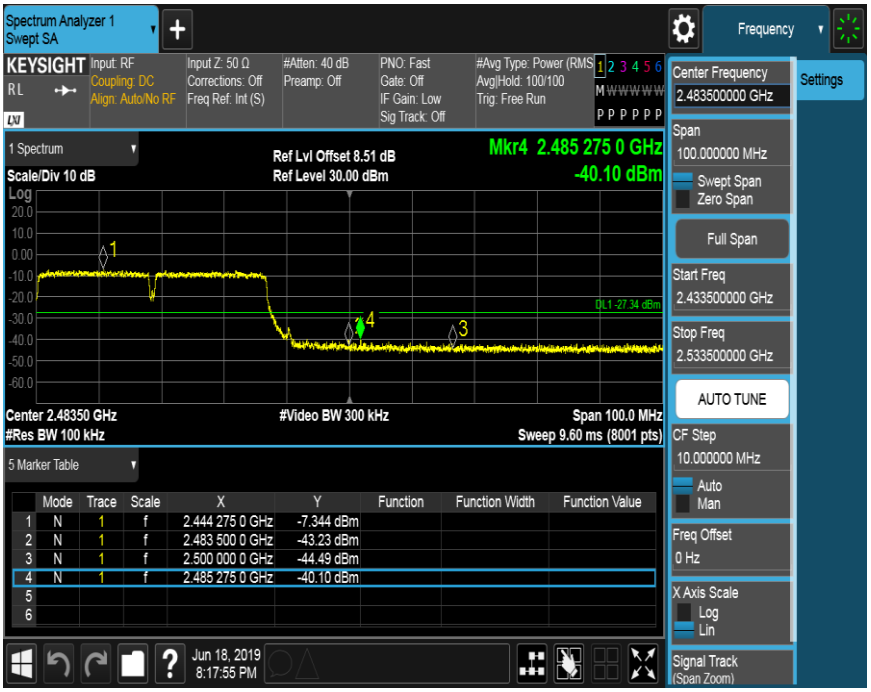
MID CH SPURIOUS EMISSIONS



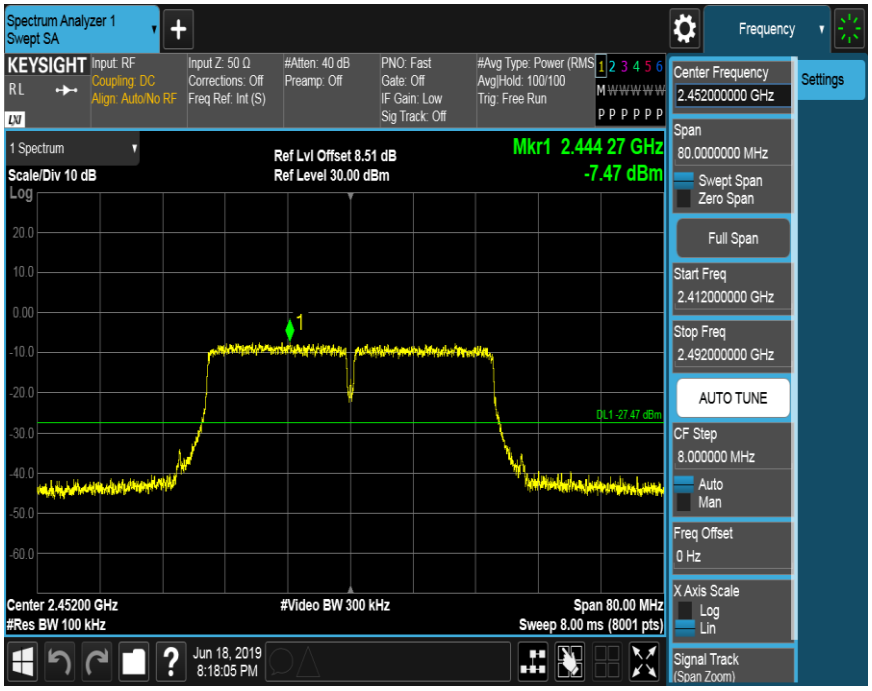


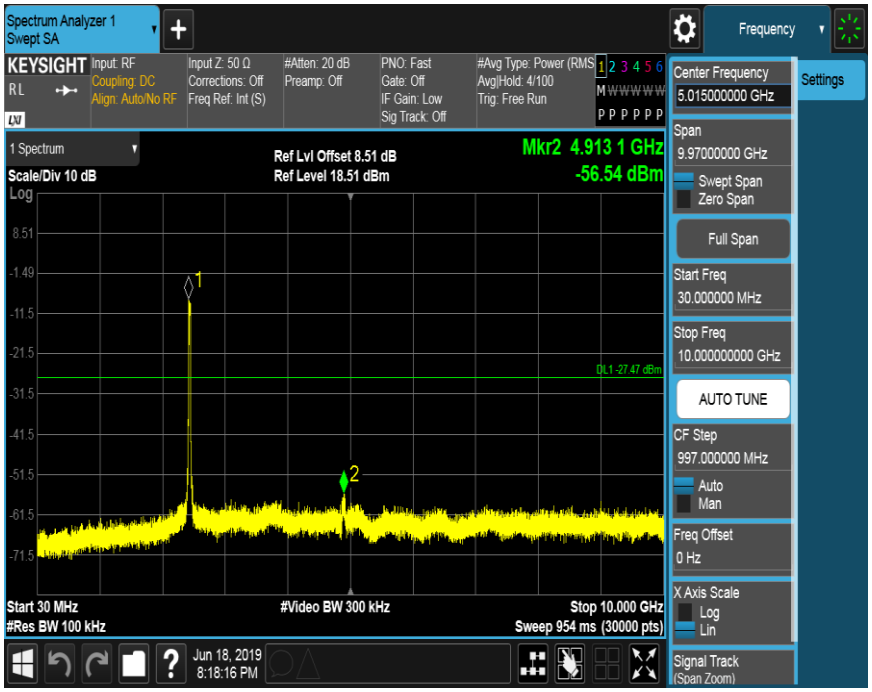


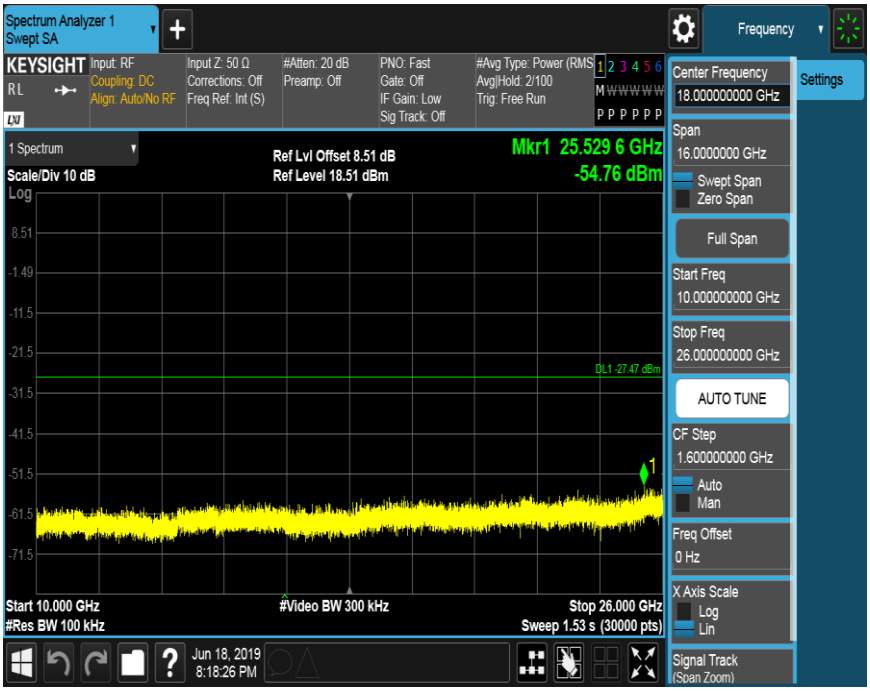
HIGH CH BANDEDGE



HIGH CH SPURIOUS EMISSIONS







9. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209

Radiation Disturbance Test Limit for FCC (Class B)(9KHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/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
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

Radiation Disturbance Test Limit for FCC (Above 1G)

Frequency (MHz)	dB(uV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

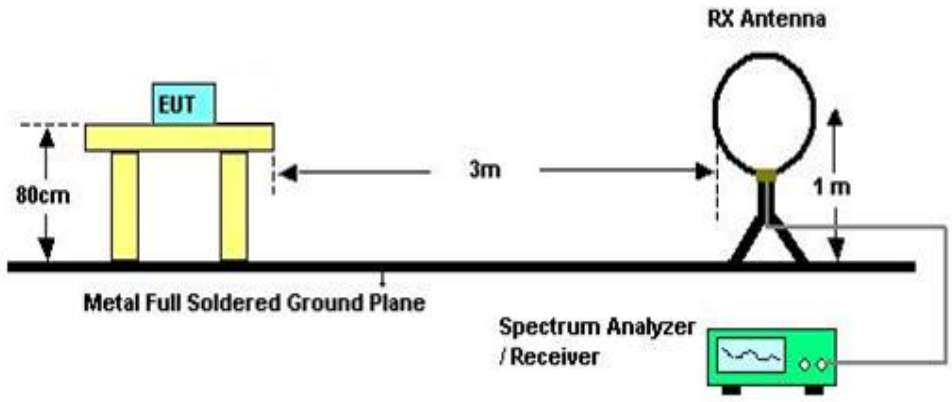
FCC Restricted bands of operation:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	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	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	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			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

TEST SETUP AND PROCEDURE

Below 30MHz



The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

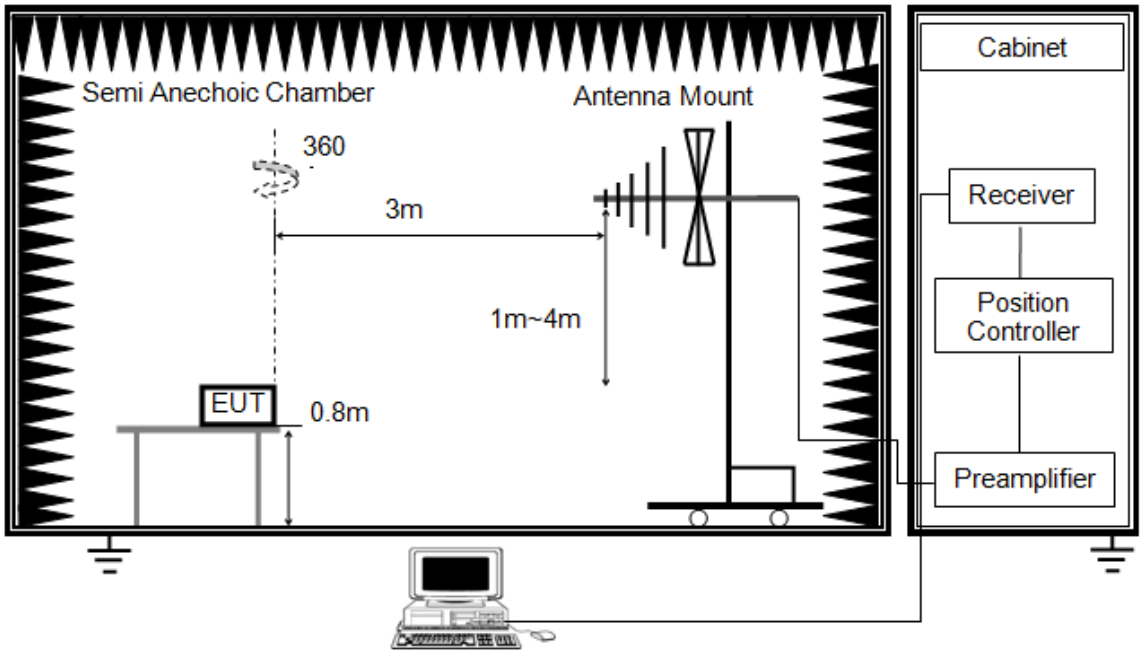
3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

6. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

Below 1G



The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

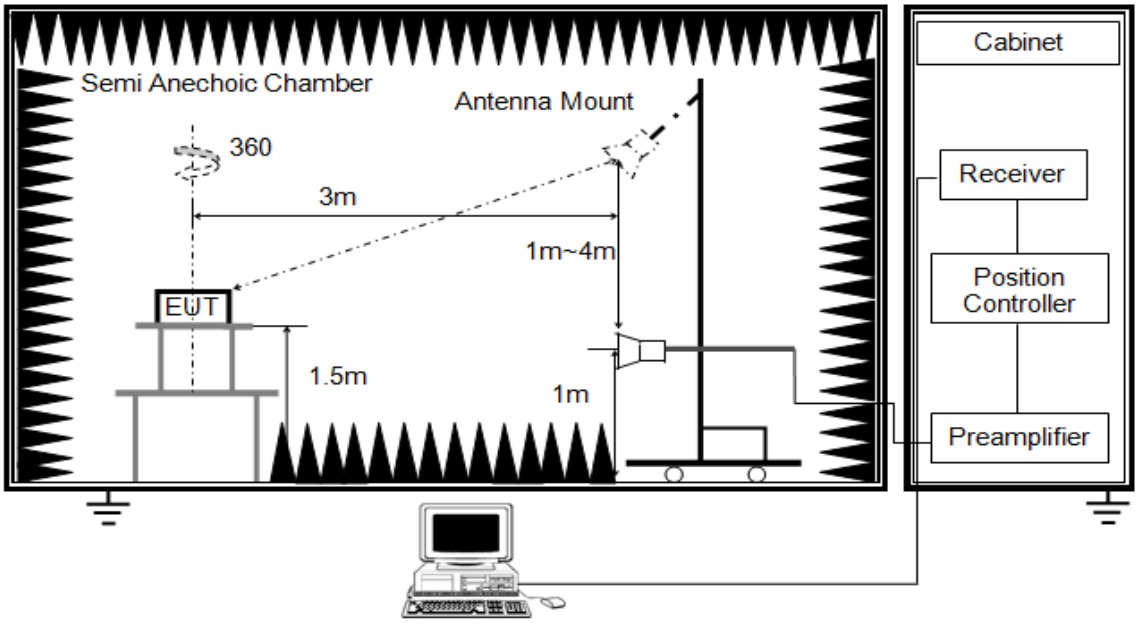
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

ABOVE 1G



The setting of the spectrum analyser

RBW	1M
VBW	PEAK: 3M AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

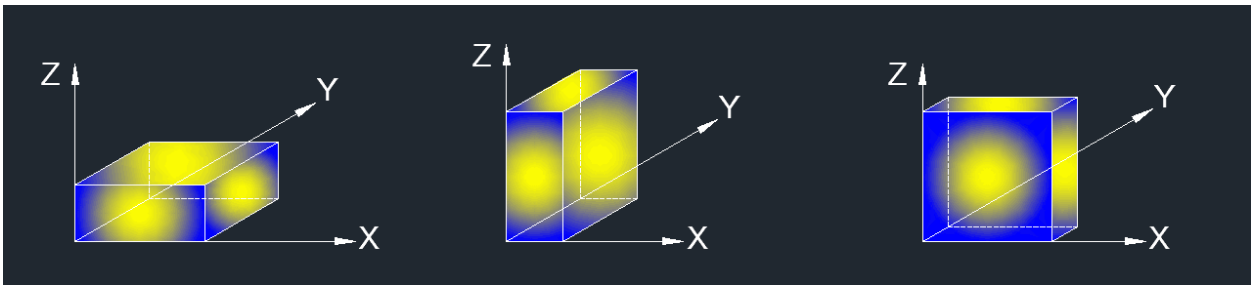
3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 8.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note : For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST ENVIRONMENT

Temperature	20°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

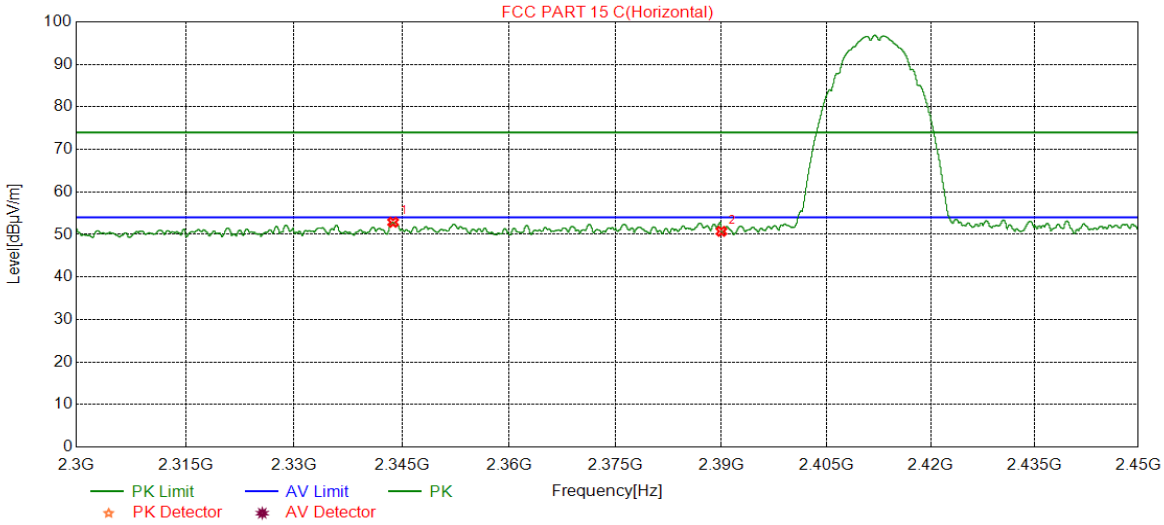
9.1. RESTRICTED BANDEDGE

Test Result Table

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11G	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11N20	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11N40	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS

9.1.1. 802.11b MODE

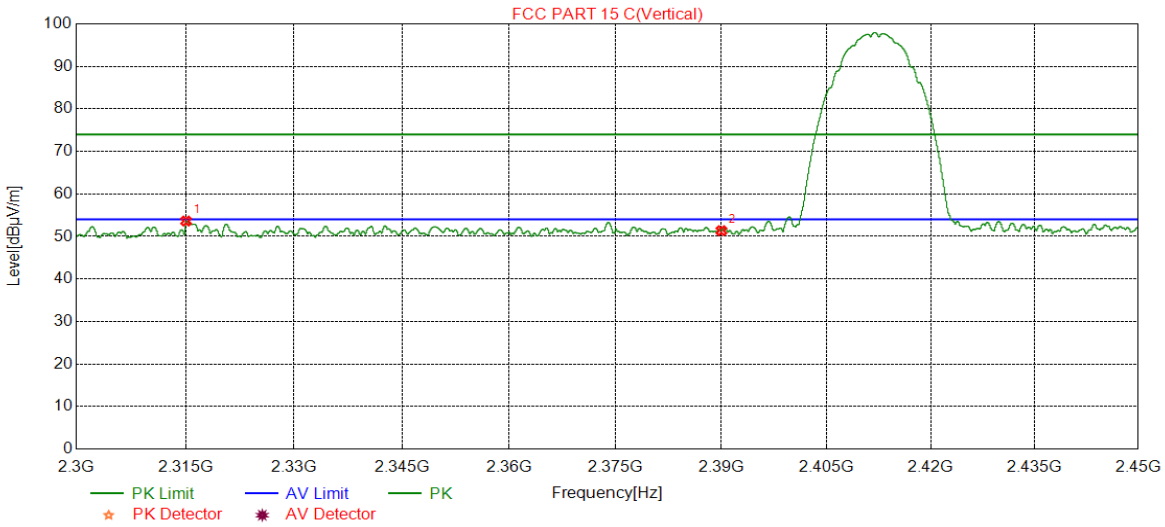
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2343.7594	39.24	13.63	52.87	74.00	-21.13	peak
2	2390.0000	36.63	14.09	50.72	74.00	-23.28	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

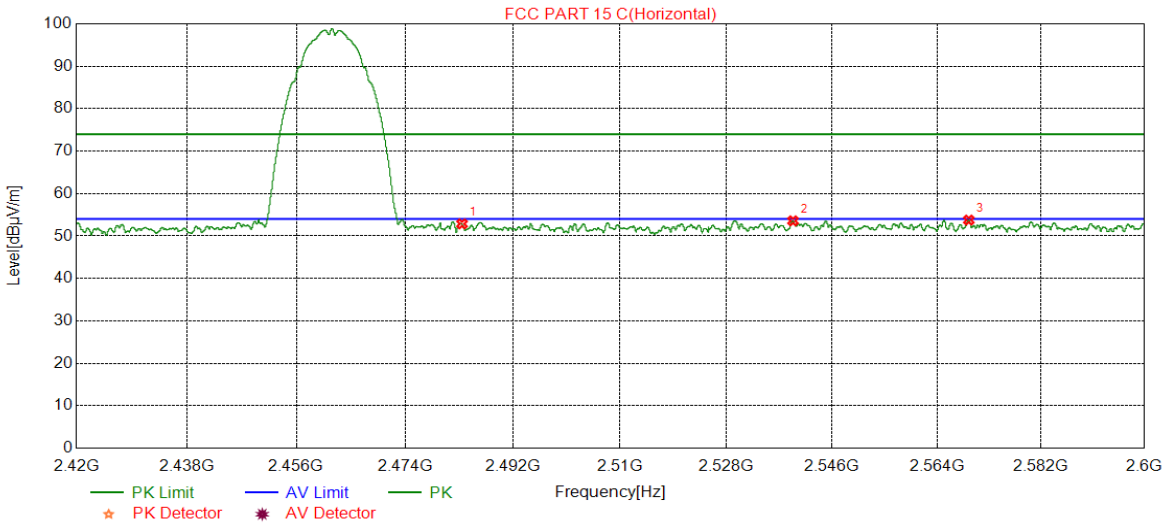
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2315.0615	40.37	13.25	53.62	74.00	-20.38	peak
2	2390.0000	37.25	14.09	51.34	74.00	-22.66	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

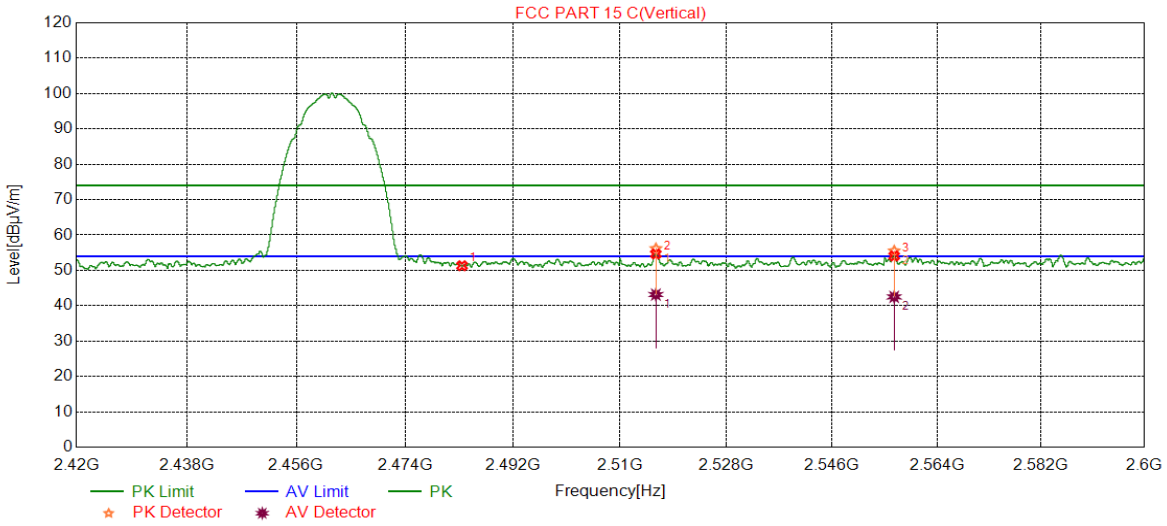
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	38.97	13.88	52.85	74.00	-21.15	peak
2	2539.3159	39.28	14.29	53.57	74.00	-20.43	peak
3	2569.4869	39.31	14.44	53.75	74.00	-20.25	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

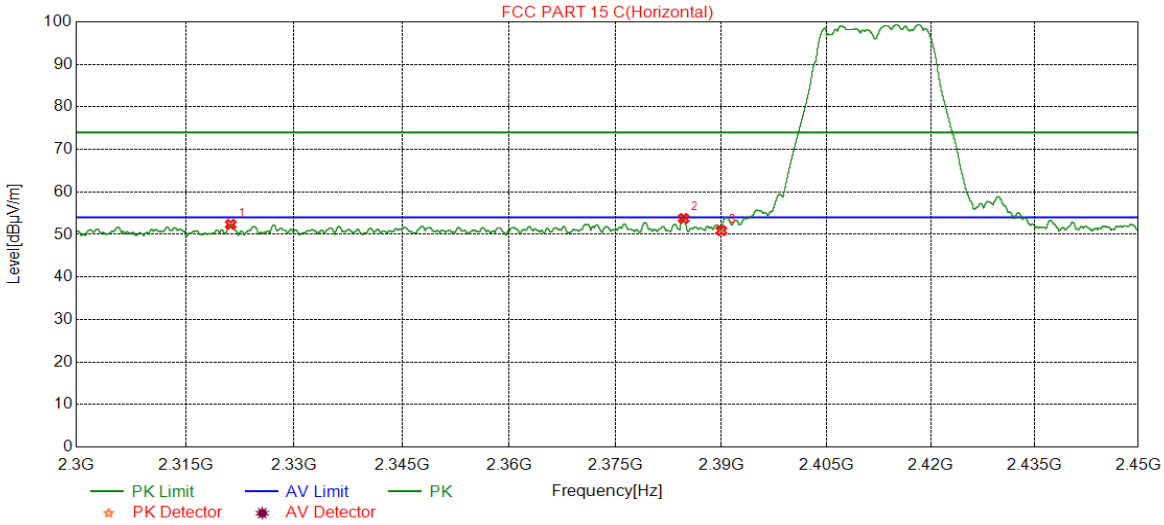


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	37.42	13.88	51.30	74.00	-22.70	peak
2	2516.0396	41.9	14.25	56.15	74.00	-17.85	peak
		28.90	14.25	43.15	54.00	-10.85	average
3	2544.2169	41.02	14.48	55.50	74.00	-18.50	peak
		28.02	14.48	42.50	54.00	-11.50	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9.1.2. 802.11g MODE

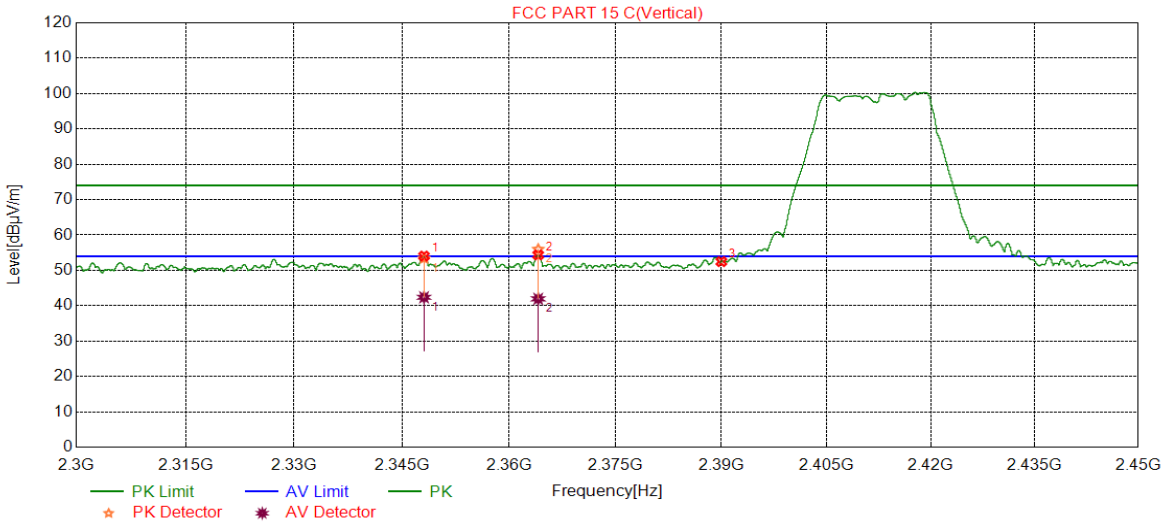
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2321.2271	39.07	13.29	52.36	74.00	-21.64	peak
2	2384.6385	39.71	14.05	53.76	74.00	-20.24	peak
3	2390.0000	36.81	14.09	50.90	74.00	-23.10	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

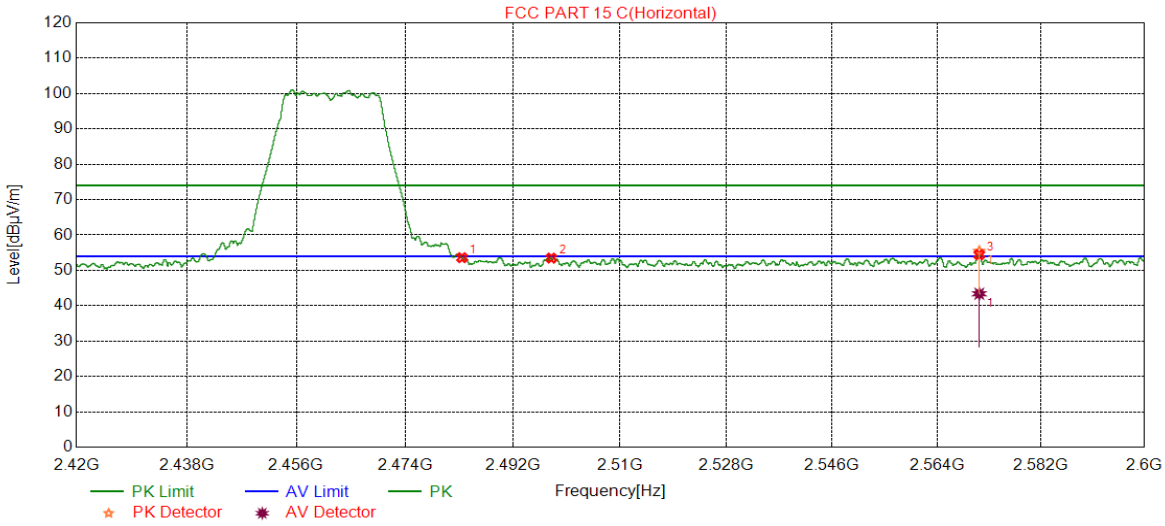
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2348.0798	39.71	13.67	53.38	74.00	-20.62	peak
		28.71	13.67	42.38	54.00	-11.62	average
2	2364.0864	42.16	13.79	55.95	74.00	-18.05	peak
		28.16	13.79	41.95	54.00	-12.05	average
3	2390.0000	38.38	14.09	52.47	74.00	-21.53	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

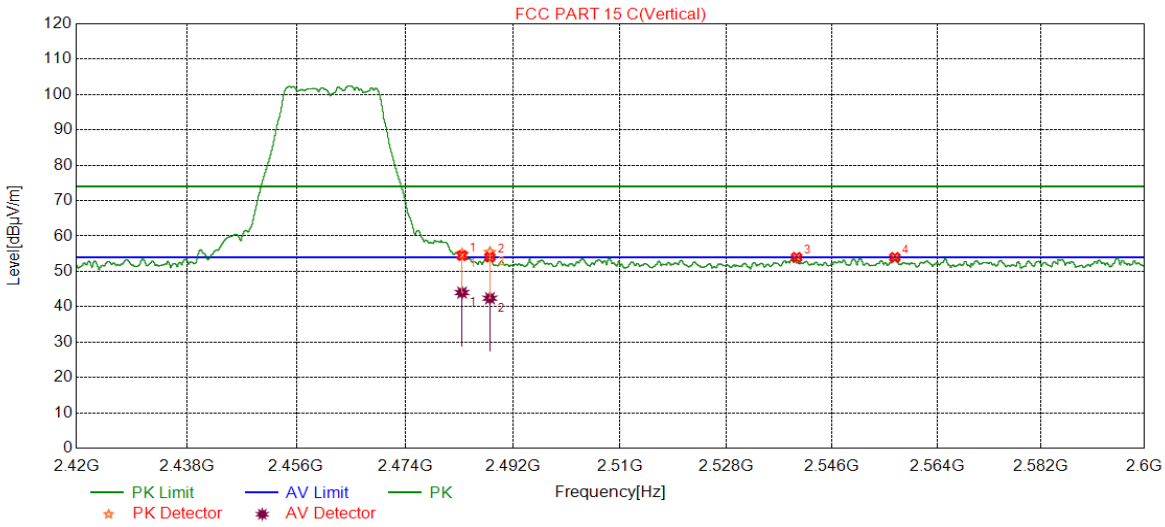
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	39.71	13.88	53.59	74.00	-20.41	peak
2	2498.4338	39.40	14.08	53.48	74.00	-20.52	average
3	2571.2871	40.94	14.45	55.39	74.00	-18.61	peak
		28.94	14.45	43.39	54.00	-10.61	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

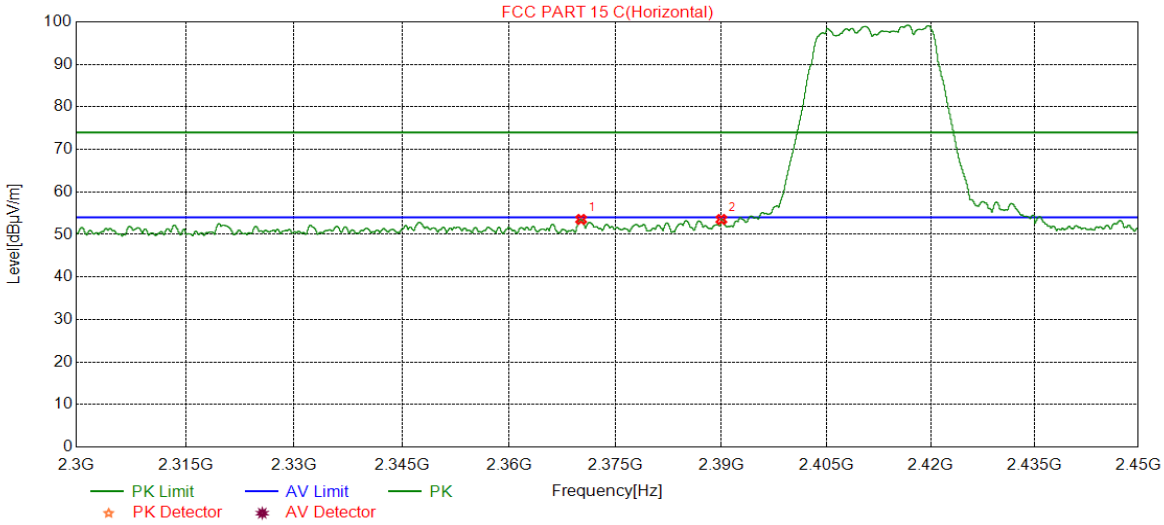


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	41.11	13.88	54.99	74.00	-19.01	peak
		30.11	13.88	43.99	54.00	-10.01	
2	2488.1548	41.46	13.94	55.40	74.00	-18.60	peak
		28.46	13.94	42.40	54.00	-11.60	average
3	2539.9280	39.66	14.29	53.95	74.00	-20.05	peak
4	2556.7597	39.45	14.48	53.93	74.00	-20.07	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9.1.3. 802.11n HT20 MODE

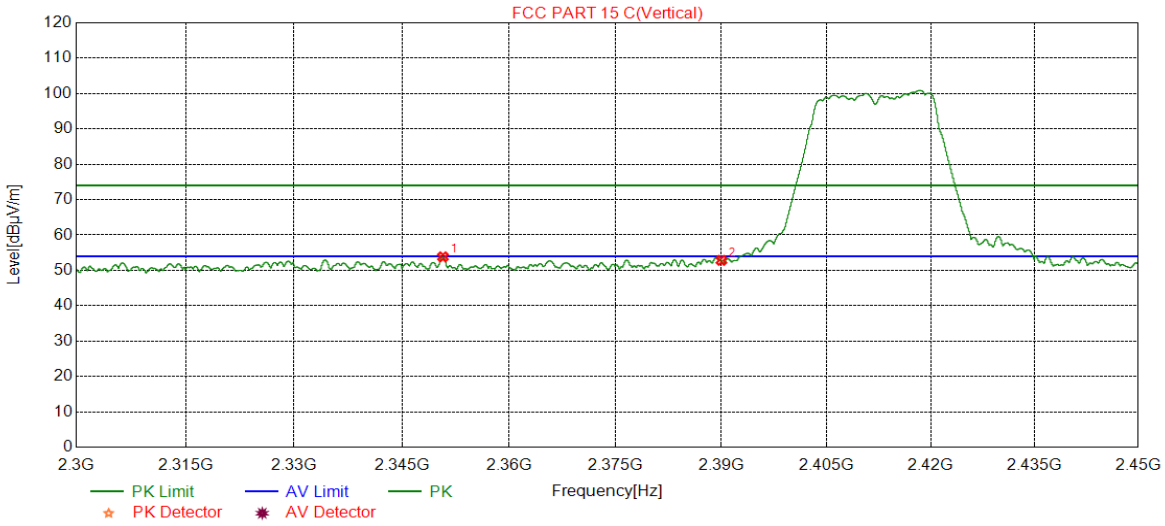
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2370.1320	39.68	13.85	53.53	74.00	-20.47	peak
2	2390.0000	39.44	14.09	53.53	74.00	-20.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

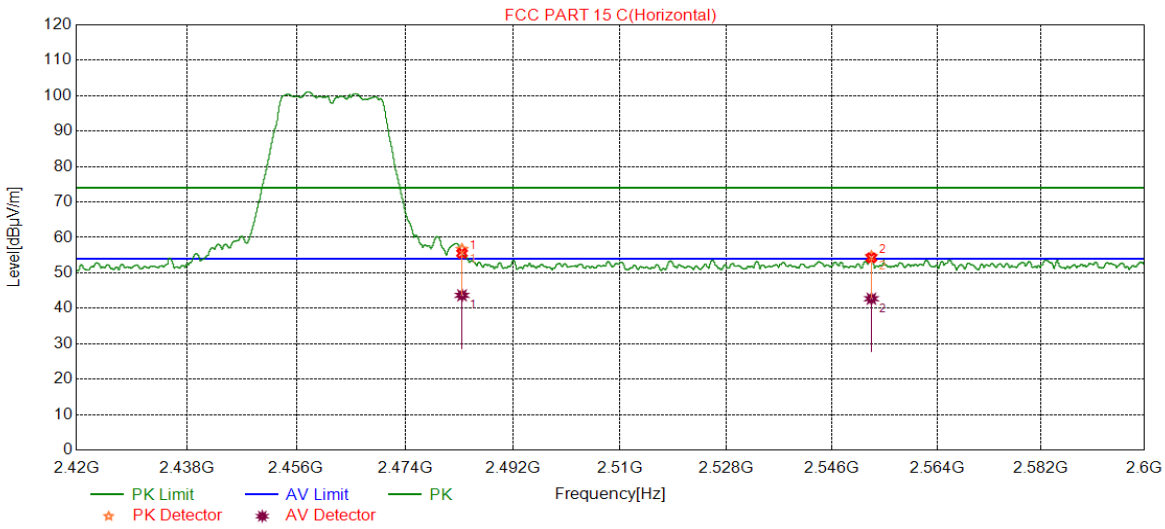
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2350.7201	40.14	13.68	53.82	74.00	-20.18	peak
2	2390.0000	38.73	14.09	52.82	74.00	-21.18	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

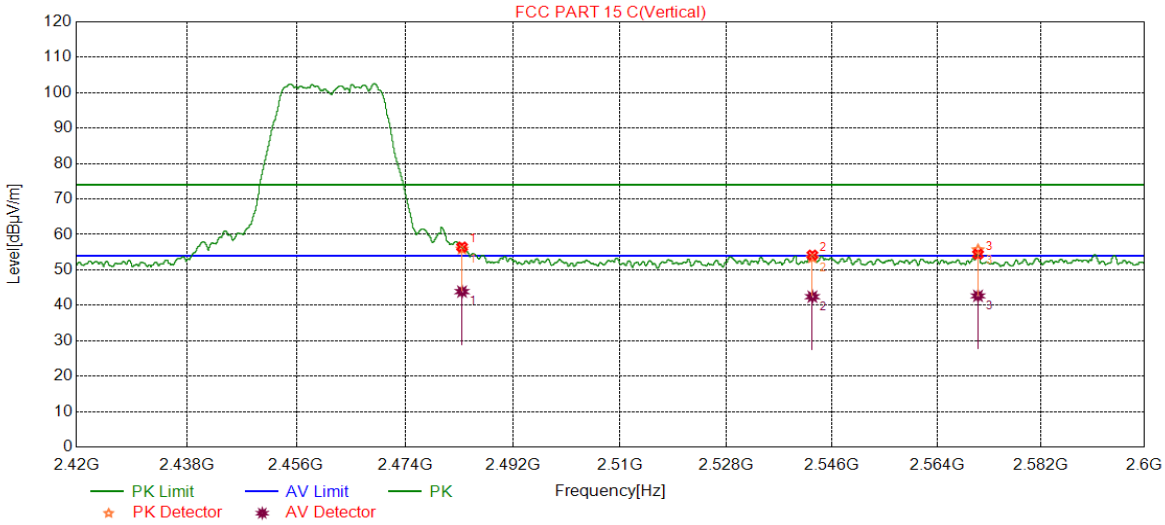
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	42.79	13.88	56.67	74.00	-17.33	peak
		29.79	13.88	43.67	54.00	-10.33	average
2	2552.7273	40.28	14.43	54.71	74.00	-19.29	peak
		28.28	14.43	42.71	54.00	-11.29	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

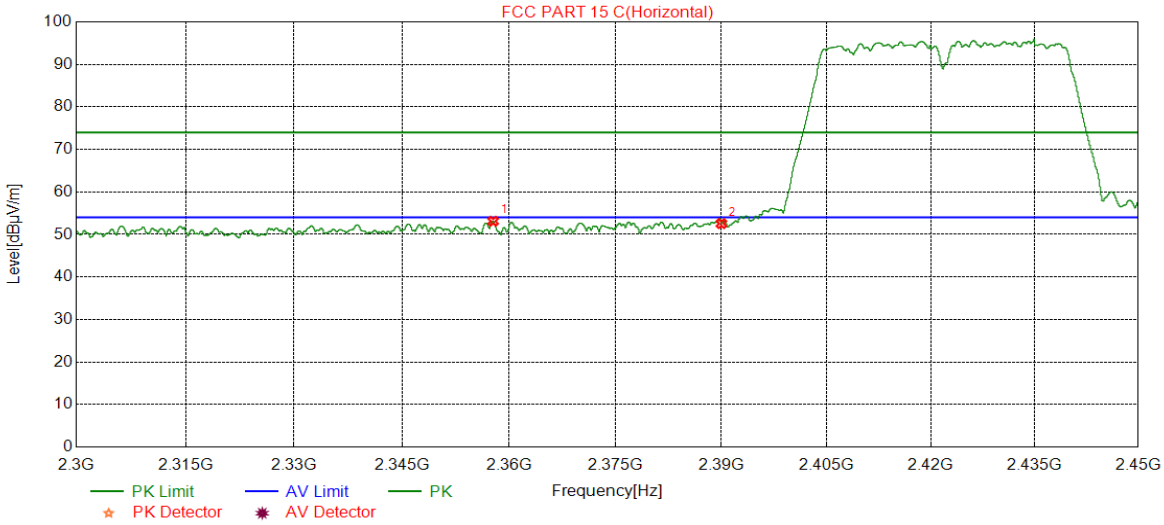


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	41.99	13.88	55.87	74.00	-18.13	peak
		29.99	13.88	43.87	54.00	-10.13	average
2	2542.4931	39.09	14.34	53.43	74.00	-20.57	peak
		28.09	14.34	42.43	54.00	-11.57	average
3	2571.0711	41.2	14.46	55.66	74.00	-18.34	peak
		28.20	14.46	42.66	54.00	-11.34	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9.1.1. 802.11n HT40 MODE

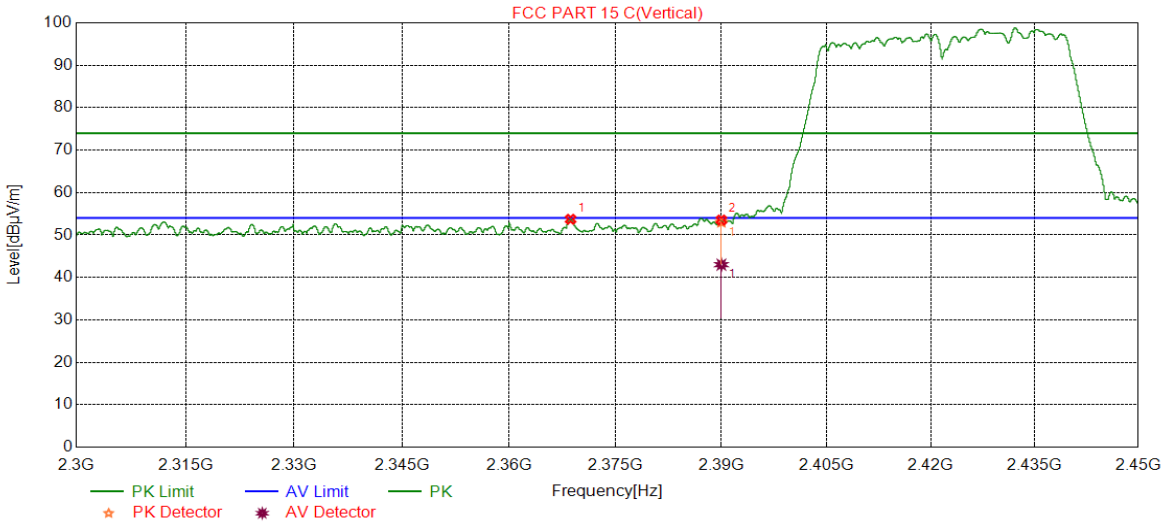
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2357.7558	39.40	13.71	53.11	74.00	-20.89	18.32
2	2390.0000	38.45	14.09	52.54	74.00	-21.46	17.98

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

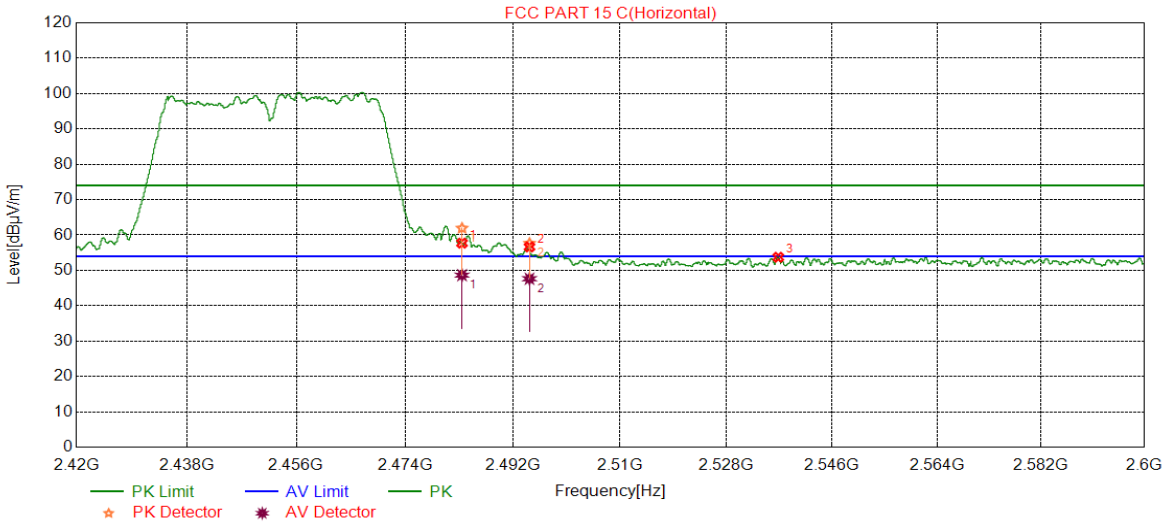
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2368.6469	39.87	13.83	53.70	74.00	-20.30	peak
2	2390.0000	38.92	14.09	53.01	74.00	-20.99	peak
		28.92	14.09	43.01	54.00	-10.99	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

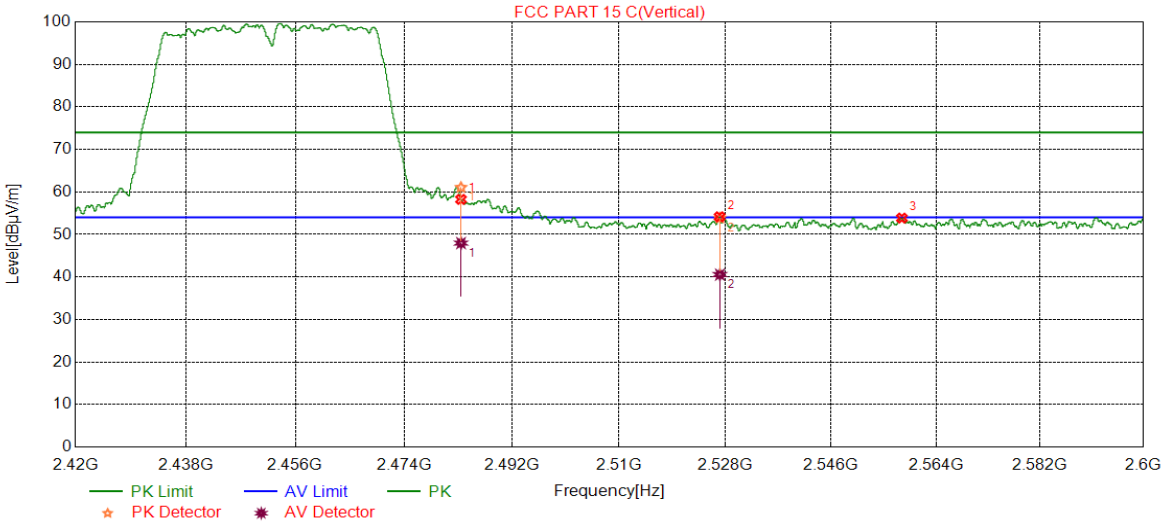
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	48.04	13.88	61.92	74.00	-12.08	peak
		34.76	13.88	48.64	54.00	-5.36	average
2	2494.7795	43.62	14.01	57.63	74.00	-16.37	peak
		33.62	14.01	47.63	54.00	-6.37	average
3	2536.8137	39.43	14.28	53.71	74.00	-20.29	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



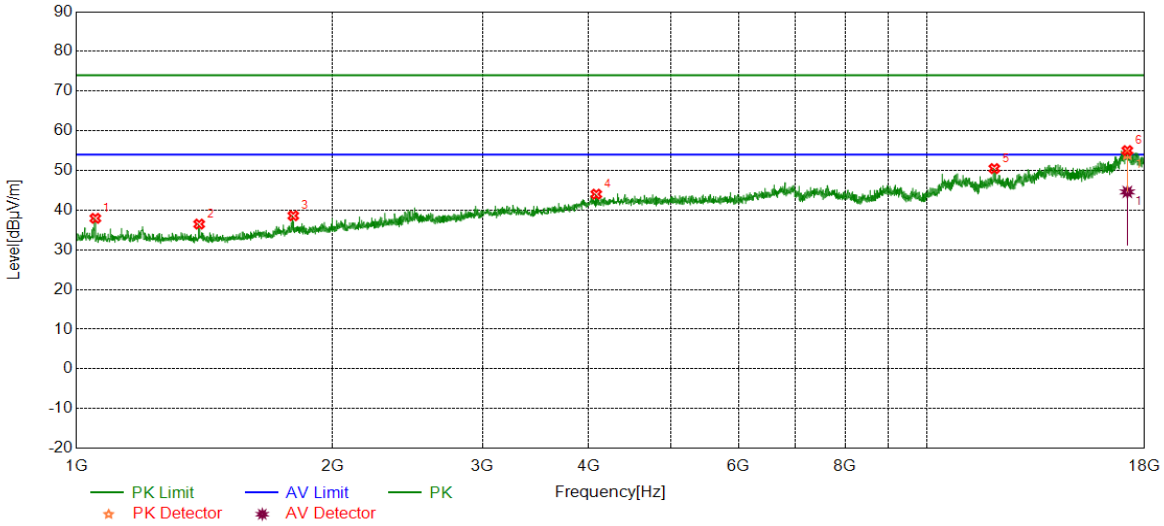
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	47.18	13.88	61.06	74.00	-12.94	peak
		34.08	13.88	47.96	54.00	-6.04	average
2	2557.1962	39.56	14.29	53.85	74.00	-20.15	peak
		26.26	14.29	40.55	54.00	-13.45	average
3	2558.1278	39.35	14.49	53.84	74.00	-20.16	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9.2. SPURIOUS EMISSIONS (1~18GHz)

9.2.1. 802.11b MODE

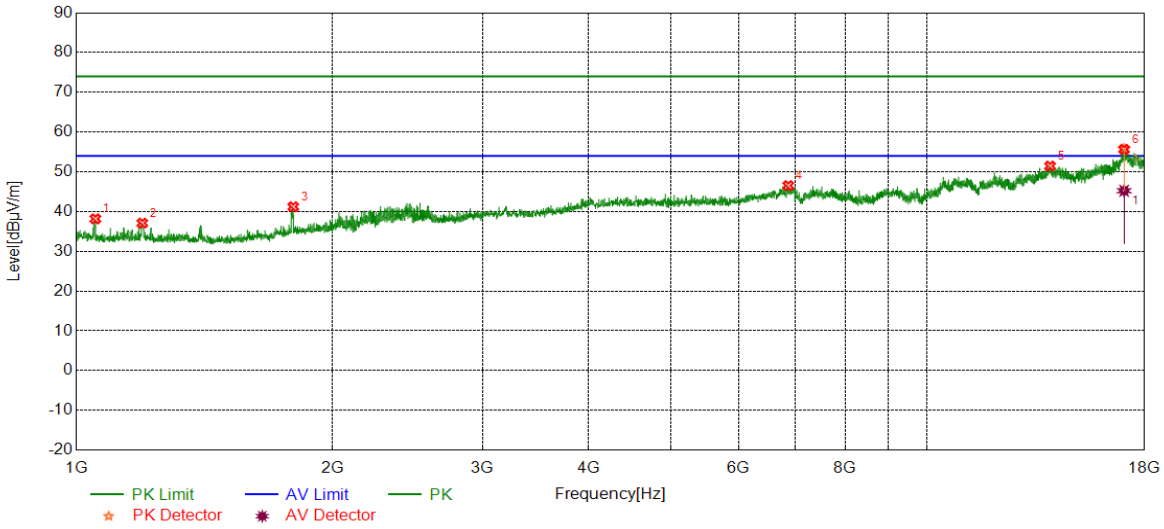
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	43.41	-5.47	37.94	74.00	-36.06	peak
2	1394.1314	42.16	-5.67	36.49	74.00	-37.51	peak
3	1798.2661	42.49	-3.90	38.59	74.00	-35.41	peak
4	4082.6804	39.64	4.39	44.03	74.00	-29.97	peak
5	11986.4978	36.63	13.85	50.48	74.00	-23.52	peak
6	17177.3629	34.48	19.55	54.03	74.00	-19.97	peak
		25.05	19.55	44.60	54.00	-9.40	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

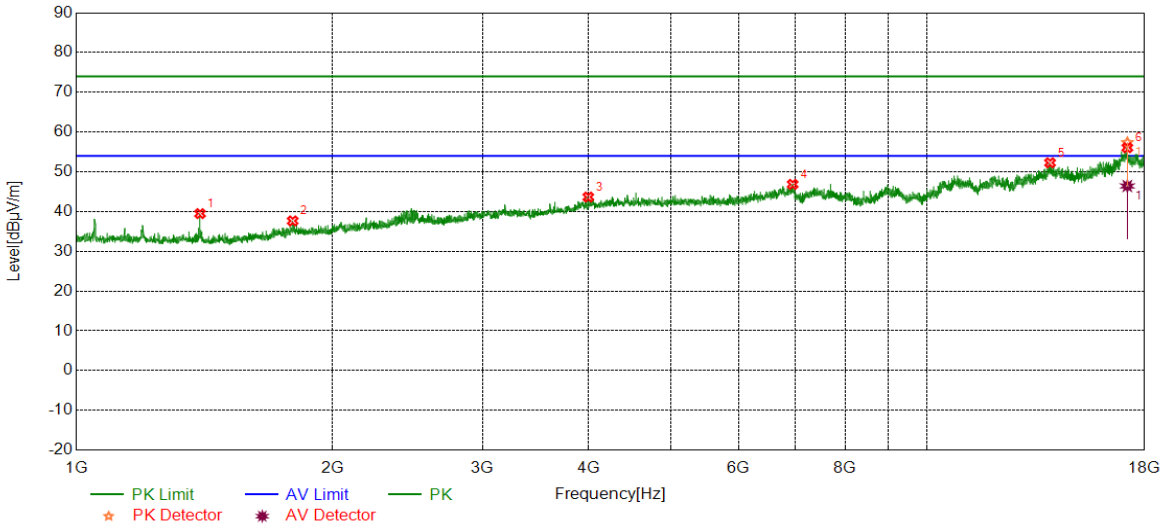
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	43.63	-5.47	38.16	74.00	-35.84	peak
2	1195.3985	42.63	-5.54	37.09	74.00	-36.91	peak
3	1798.2661	45.11	-3.90	41.21	74.00	-32.79	peak
4	6863.1439	38.17	8.35	46.52	74.00	-27.48	peak
5	13936.8228	35.42	16.03	51.45	74.00	-22.55	peak
6	17027.3379	35.52	20.21	55.73	74.00	-18.27	peak
		25.03	20.21	45.24	54.00	-8.76	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

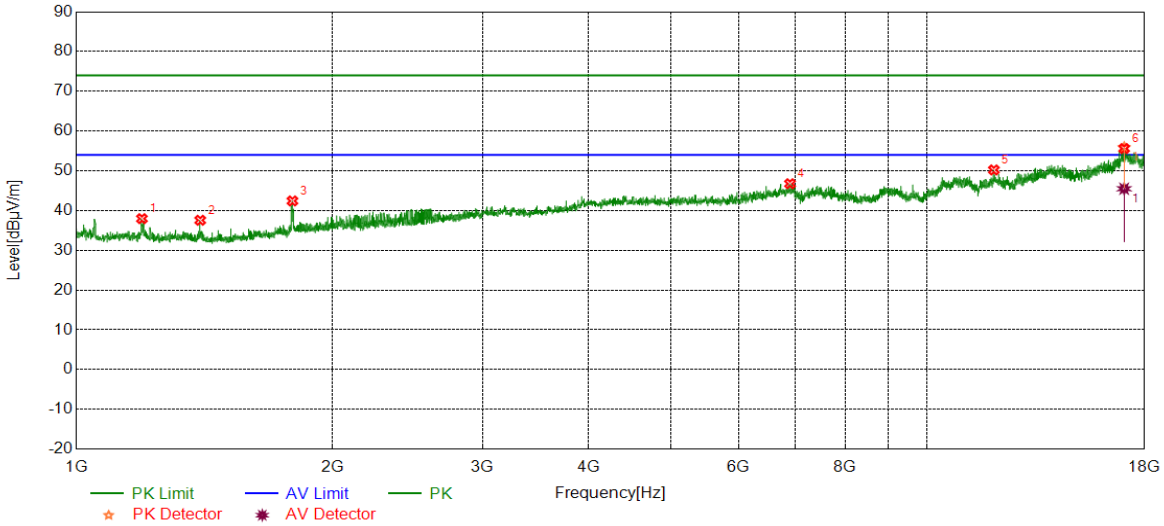
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1397.4658	45.08	-5.60	39.48	74.00	-34.52	peak
2	1795.5985	41.57	-3.92	37.65	74.00	-36.35	peak
3	3995.1659	39.45	4.20	43.65	74.00	-30.35	peak
4	6945.6576	38.15	8.70	46.85	74.00	-27.15	peak
5	13936.8228	36.24	16.03	52.27	74.00	-21.73	peak
6	17177.3629	37.81	19.55	57.36	74.00	-16.64	peak
		26.88	19.55	46.43	54.00	-7.57	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

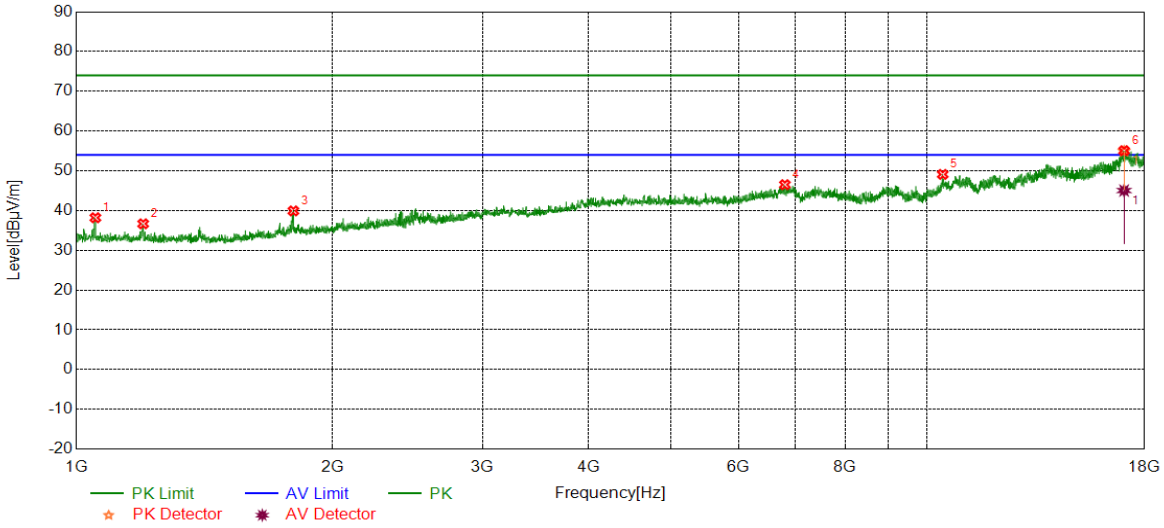
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1194.0647	43.51	-5.55	37.96	74.00	-36.04	peak
2	1398.1327	43.14	-5.58	37.56	74.00	-36.44	peak
3	1794.2648	46.36	-3.94	42.42	74.00	-31.58	peak
4	6895.6493	38.45	8.30	46.75	74.00	-27.25	peak
5	11971.4952	36.53	13.69	50.22	74.00	-23.78	peak
6	17029.8383	35.63	20.22	55.85	74.00	-18.15	peak
		25.27	20.22	45.49	54.00	-8.51	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

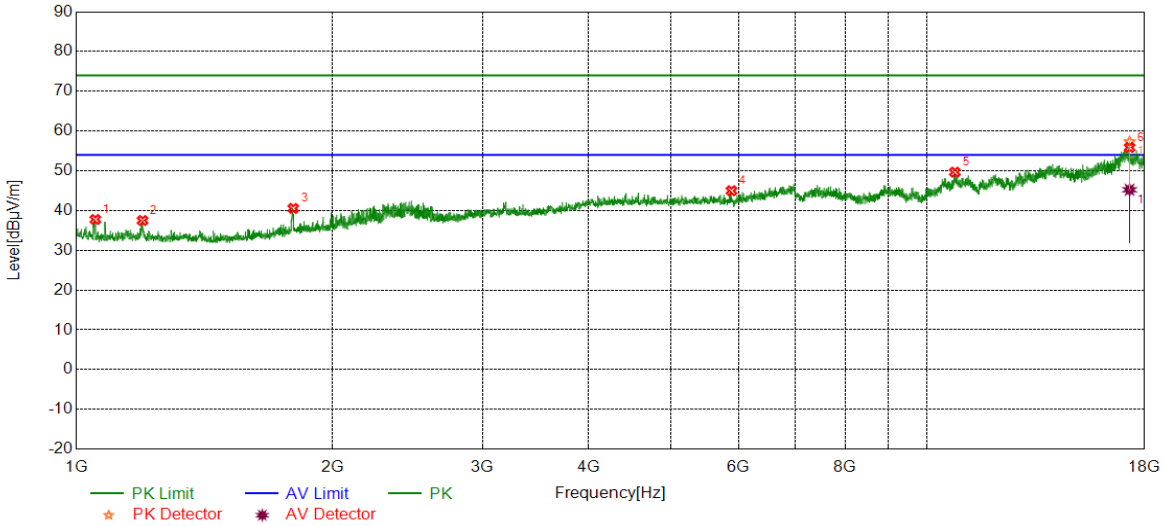
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	43.66	-5.47	38.19	74.00	-35.81	peak
2	1198.0660	42.21	-5.54	36.67	74.00	-37.33	peak
3	1798.9330	43.80	-3.89	39.91	74.00	-34.09	peak
4	6800.6334	38.17	8.34	46.51	74.00	-27.49	peak
5	10423.7373	37.18	11.92	49.10	74.00	-24.90	peak
6	17027.3379	34.72	20.21	54.93	74.00	-19.07	peak
		24.83	20.21	45.04	54.00	-8.96	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

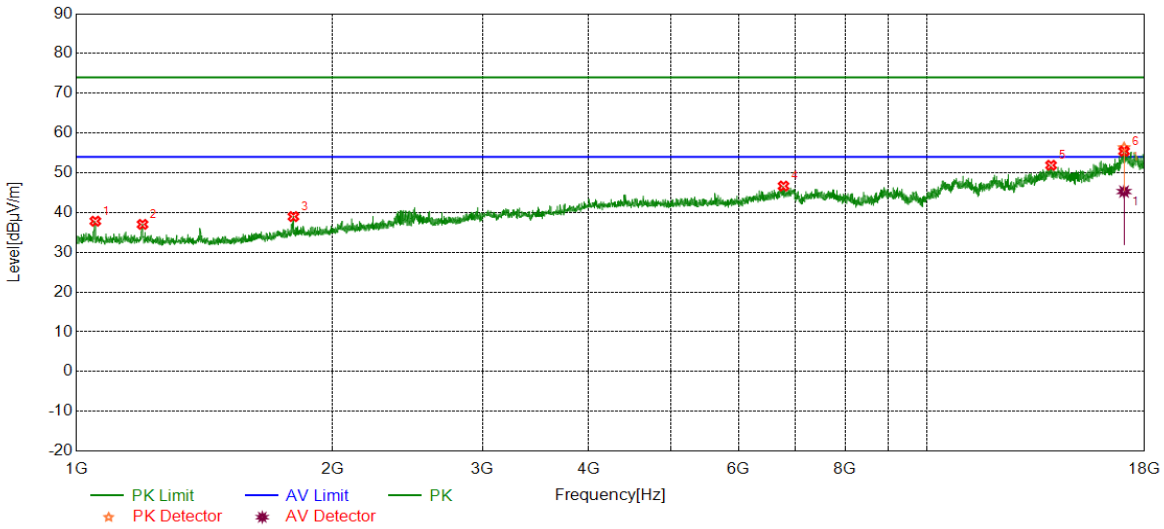


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	43.22	-5.47	37.75	74.00	-36.25	peak
2	1196.0654	43.04	-5.54	37.50	74.00	-36.50	peak
3	1798.2661	44.44	-3.90	40.54	74.00	-33.46	peak
4	5885.4809	39.51	5.48	44.99	74.00	-29.01	peak
5	10771.2952	37.05	12.61	49.66	74.00	-24.34	peak
6	17282.3804	38.65	18.66	57.31	74.00	-16.69	peak
		26.57	18.66	45.23	54.00	-8.77	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9.2.2. 802.11g MODE

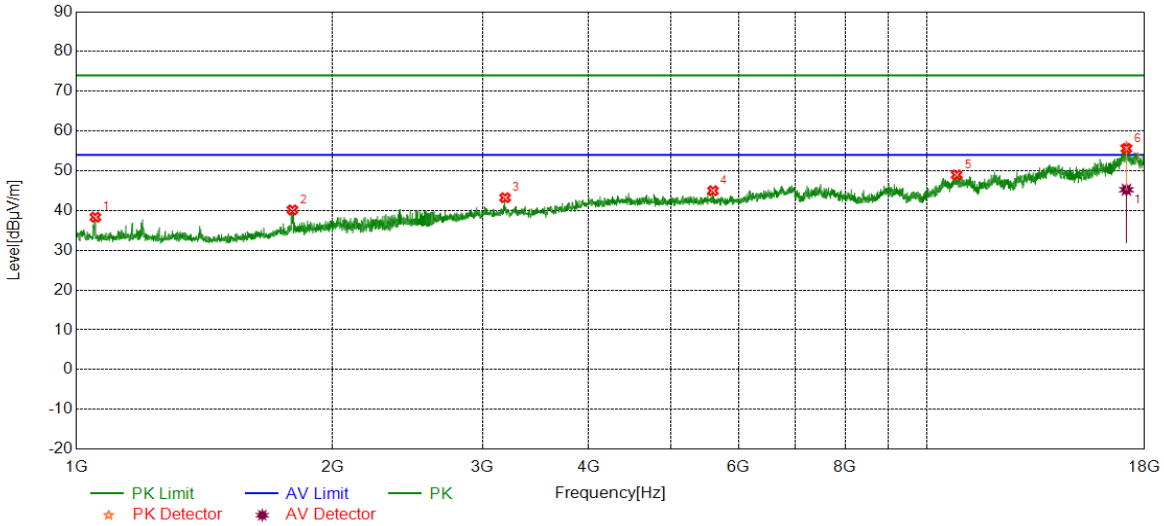
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	43.30	-5.47	37.83	74.00	-36.17	peak
2	1196.0654	42.57	-5.54	37.03	74.00	-36.97	peak
3	1798.9330	42.87	-3.89	38.98	74.00	-35.02	peak
4	6775.6293	38.22	8.45	46.67	74.00	-27.33	peak
5	13974.3291	35.70	16.20	51.90	74.00	-22.10	peak
6	17024.8375	36.13	20.19	56.32	74.00	-17.68	peak
		25.09	20.19	45.28	54.00	-8.72	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

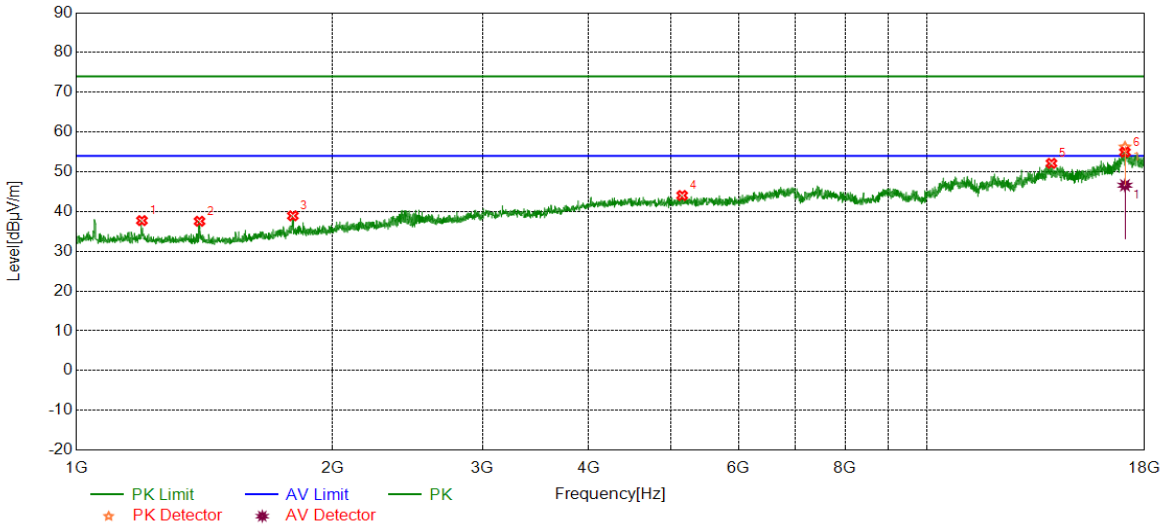
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	43.81	-5.47	38.34	74.00	-35.66	peak
2	1794.2648	44.10	-3.94	40.16	74.00	-33.84	peak
3	3190.0317	41.20	2.03	43.23	74.00	-30.77	peak
4	5597.9330	39.41	5.58	44.99	74.00	-29.01	peak
5	10823.8040	36.28	12.70	48.98	74.00	-25.02	peak
6	17134.8558	36.69	19.30	55.99	74.00	-18.01	peak
		25.94	19.30	45.24	54.00	-8.76	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

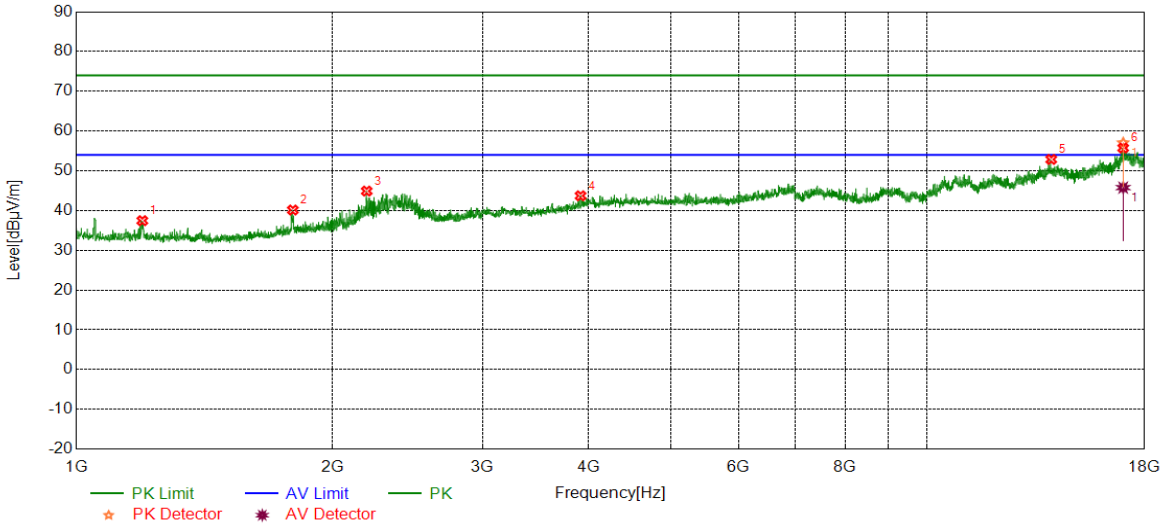
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1194.0647	43.27	-5.55	37.72	74.00	-36.28	peak
2	1395.4652	43.20	-5.64	37.56	74.00	-36.44	peak
3	1796.2654	42.85	-3.92	38.93	74.00	-35.07	peak
4	5150.3584	38.90	5.14	44.04	74.00	-29.96	peak
5	13989.3316	35.94	16.19	52.13	74.00	-21.87	peak
6	17067.3446	35.72	20.52	56.24	74.00	-17.76	peak
		26.09	20.52	46.61	54.00	-7.39	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

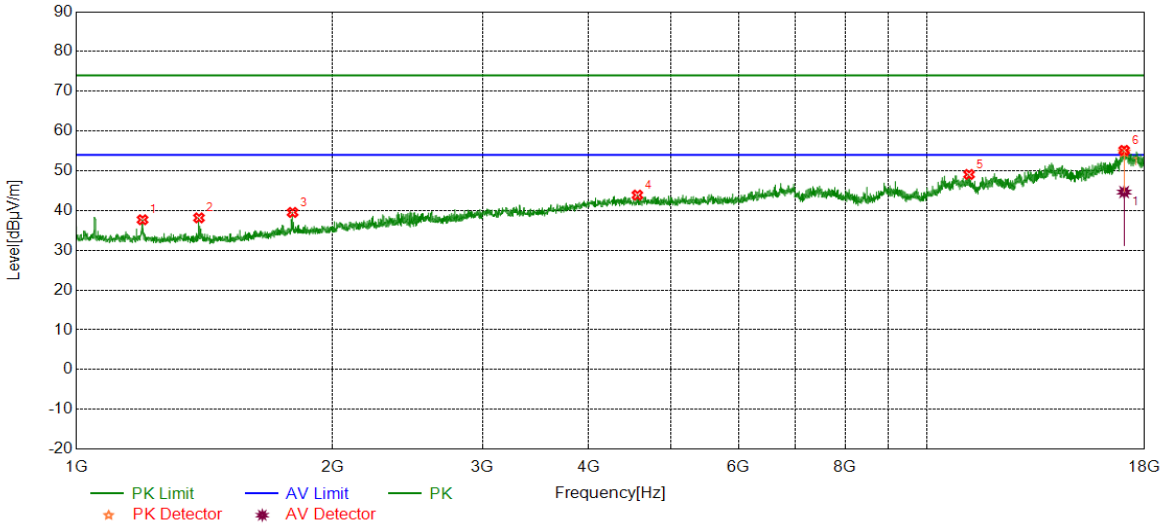
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1195.3985	42.99	-5.54	37.45	74.00	-36.55	peak
2	1796.2654	44.05	-3.92	40.13	74.00	-33.87	peak
3	2193.7312	47.30	-2.40	44.90	74.00	-29.10	peak
4	3912.6521	39.88	3.83	43.71	74.00	-30.29	peak
5	13981.8303	36.38	16.48	52.86	74.00	-21.14	peak
6	16984.8308	37.00	20.03	57.03	74.00	-16.97	peak
		25.74	20.03	45.77	54.00	-8.23	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

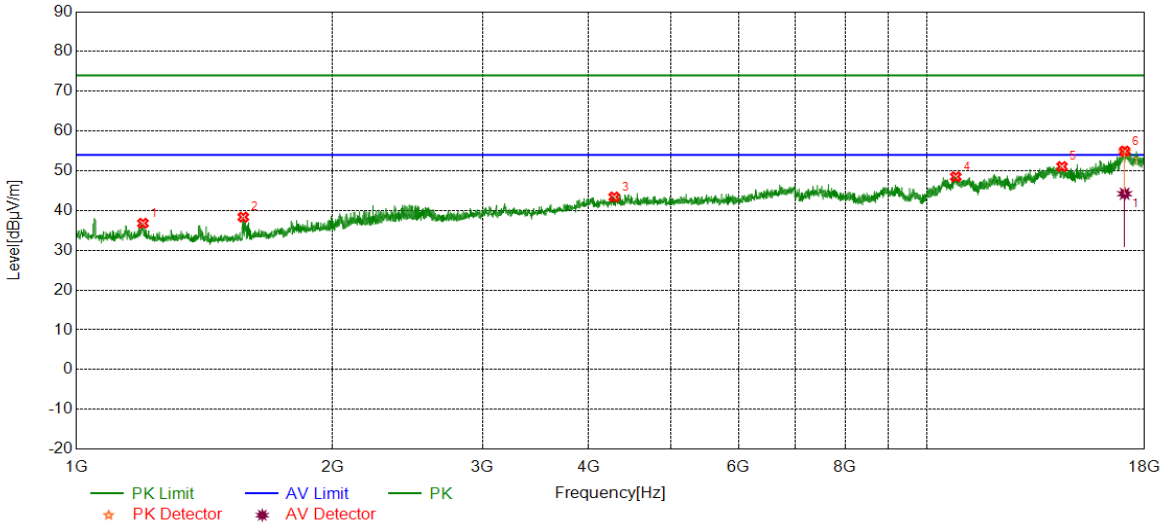
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1196.0654	43.23	-5.54	37.69	74.00	-36.31	peak
2	1393.4645	43.85	-5.69	38.16	74.00	-35.84	peak
3	1794.9316	43.46	-3.93	39.53	74.00	-34.47	peak
4	4562.7605	38.54	5.35	43.89	74.00	-30.11	peak
5	11193.8656	36.49	12.59	49.08	74.00	-24.92	peak
6	17029.8383	34.52	20.22	54.74	74.00	-19.26	peak
		24.43	20.22	44.65	54.00	-9.35	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

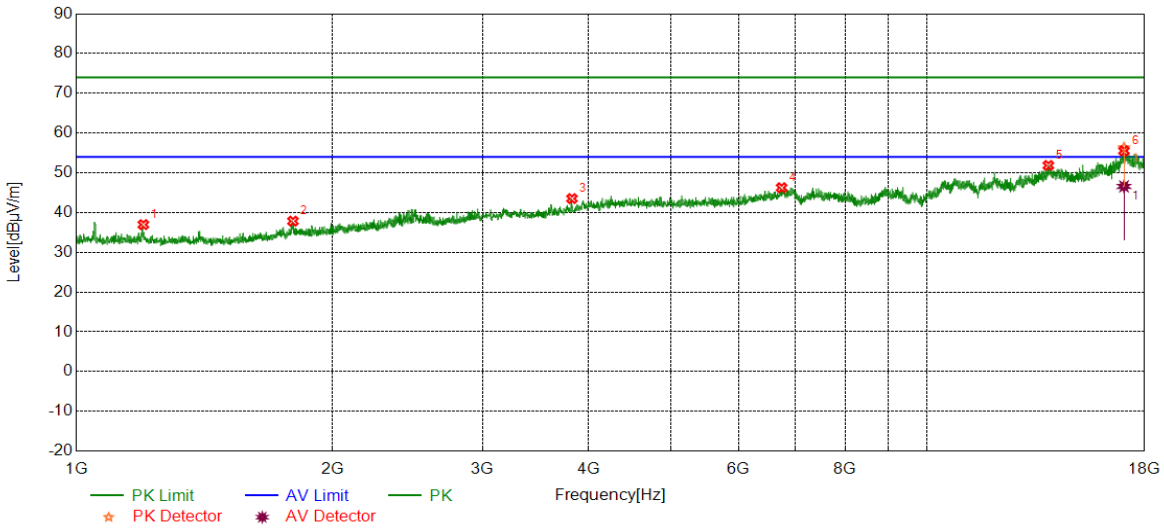


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1197.3991	42.34	-5.54	36.80	74.00	-37.20	peak
2	1570.8570	43.77	-5.41	38.36	74.00	-35.64	peak
3	4285.2142	38.66	4.76	43.42	74.00	-30.58	peak
4	10798.7998	35.50	13.00	48.50	74.00	-25.50	peak
5	14394.3991	35.54	15.53	51.07	74.00	-22.93	peak
6	17052.3421	34.21	20.48	54.69	74.00	-19.31	peak
		23.75	20.48	44.23	54.00	-9.77	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9.2.3. 802.11n HT20 MODE

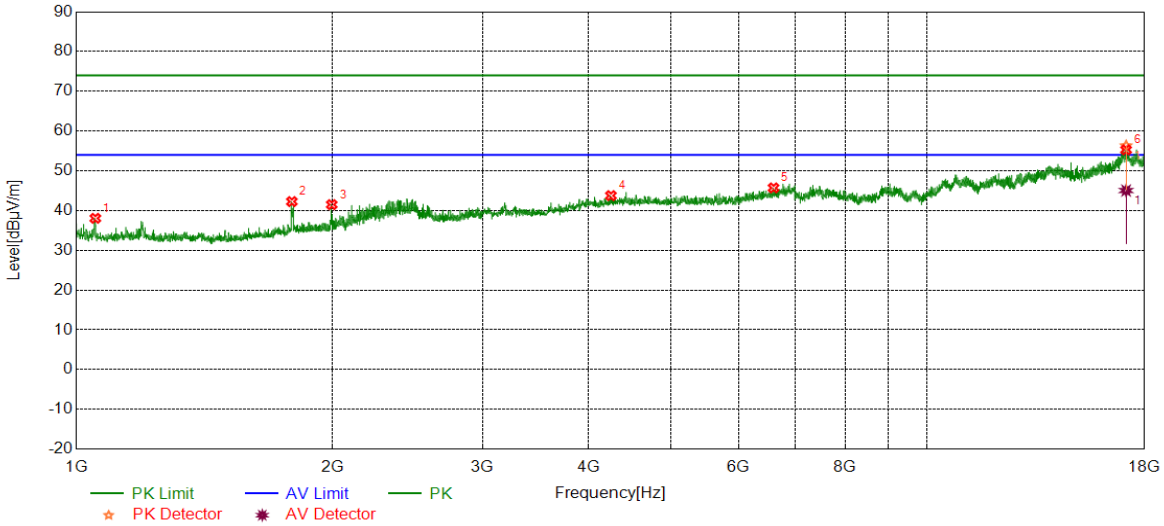
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.7329	42.50	-5.54	36.96	74.00	-37.04	peak
2	1796.9323	41.75	-3.91	37.84	74.00	-36.16	peak
3	3822.6371	39.74	3.77	43.51	74.00	-30.49	peak
4	6740.6234	37.55	8.70	46.25	74.00	-27.75	peak
5	13874.3124	35.78	16.07	51.85	74.00	-22.15	peak
6	17022.3371	36.12	20.17	56.29	74.00	-17.71	peak
		26.41	20.17	46.58	54.00	-7.42	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

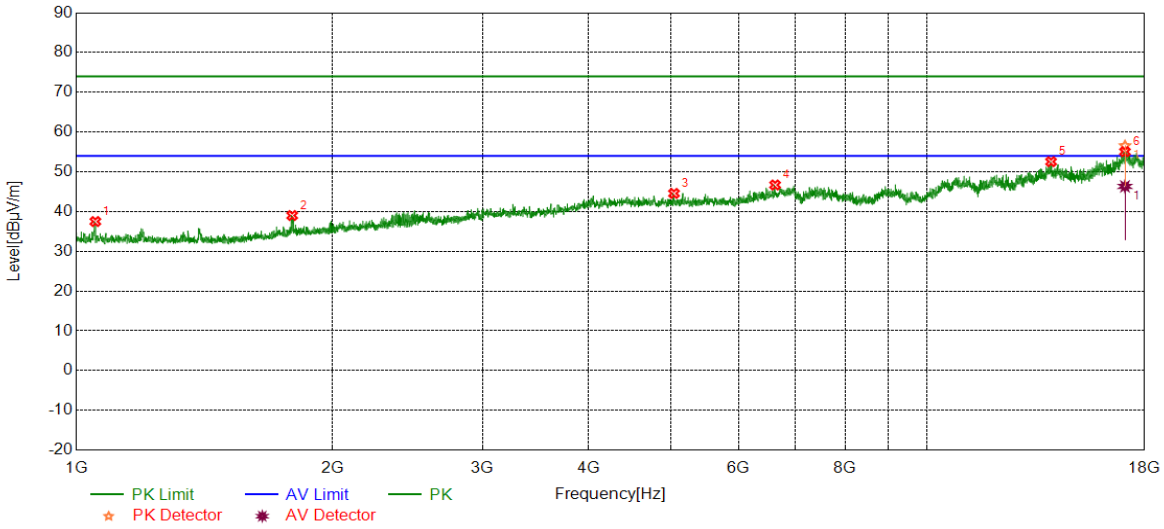
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	43.52	-5.47	38.05	74.00	-35.95	peak
2	1791.5972	46.23	-3.97	42.26	74.00	-31.74	peak
3	1995.6652	44.56	-3.06	41.50	74.00	-32.50	peak
4	4247.7080	38.79	4.96	43.75	74.00	-30.25	peak
5	6595.5993	37.69	8.01	45.70	74.00	-28.30	peak
6	17119.8533	37.28	19.01	56.29	74.00	-17.71	peak
		26.03	19.01	45.04	54.00	-8.96	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

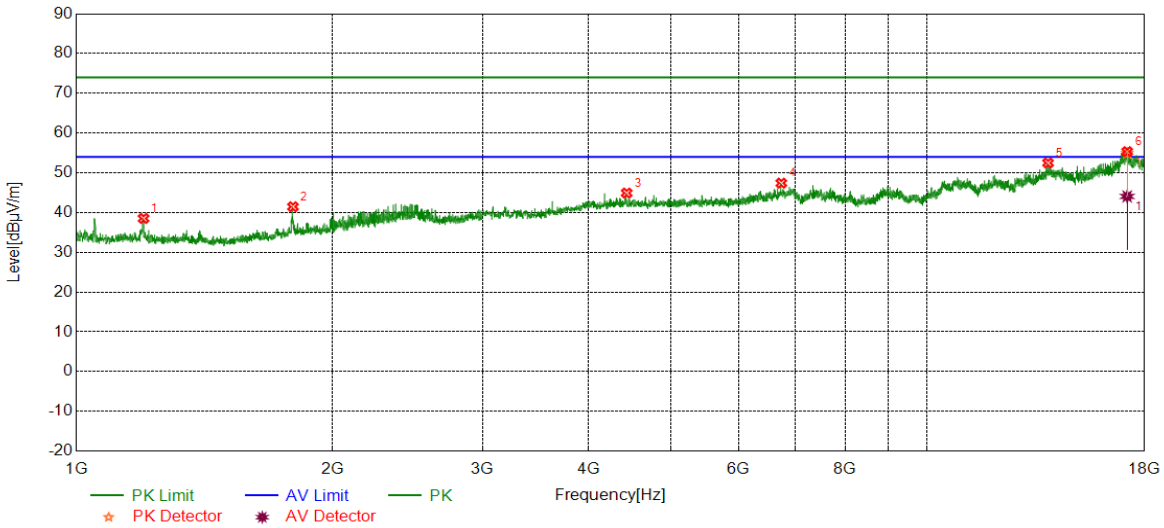
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	42.96	-5.47	37.49	74.00	-36.51	peak
2	1792.9310	42.95	-3.95	39.00	74.00	-35.00	peak
3	5037.8396	39.38	5.18	44.56	74.00	-29.44	peak
4	6623.1039	38.30	8.39	46.69	74.00	-27.31	peak
5	13974.3291	36.35	16.20	52.55	74.00	-21.45	peak
6	17067.3446	36.04	20.52	56.56	74.00	-17.44	peak
		25.81	20.52	46.33	54.00	-7.67	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

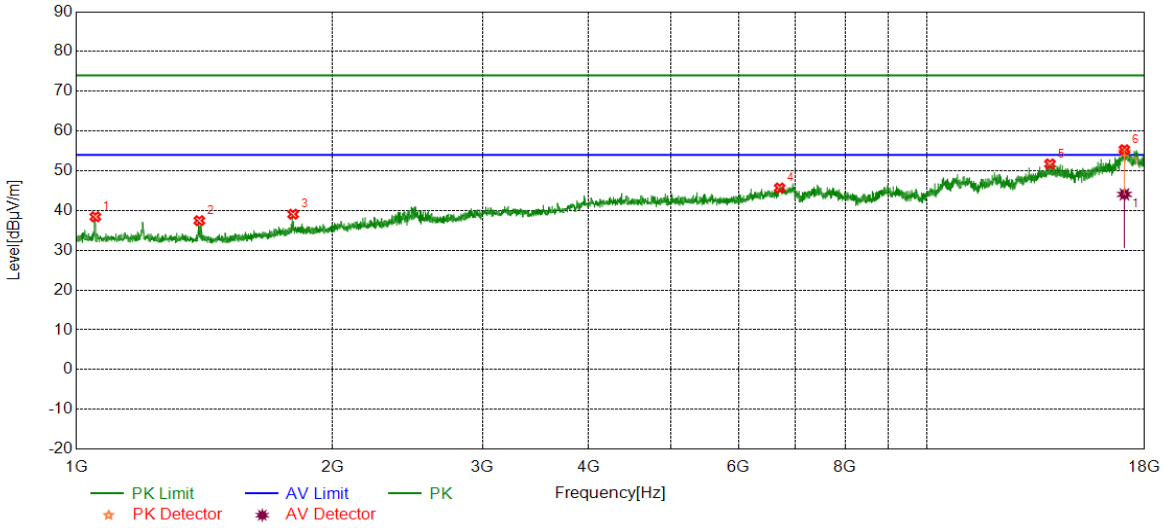
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1199.3998	44.06	-5.54	38.52	74.00	-35.48	peak
2	1796.9323	45.37	-3.91	41.46	74.00	-32.54	peak
3	4432.7388	39.70	5.21	44.91	74.00	-29.09	peak
4	6735.6226	38.67	8.74	47.41	74.00	-26.59	peak
5	13861.8103	36.73	15.75	52.48	74.00	-21.52	peak
6	17169.8616	35.48	19.43	54.91	74.00	-19.09	peak
		24.63	19.43	44.06	54.00	-9.94	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

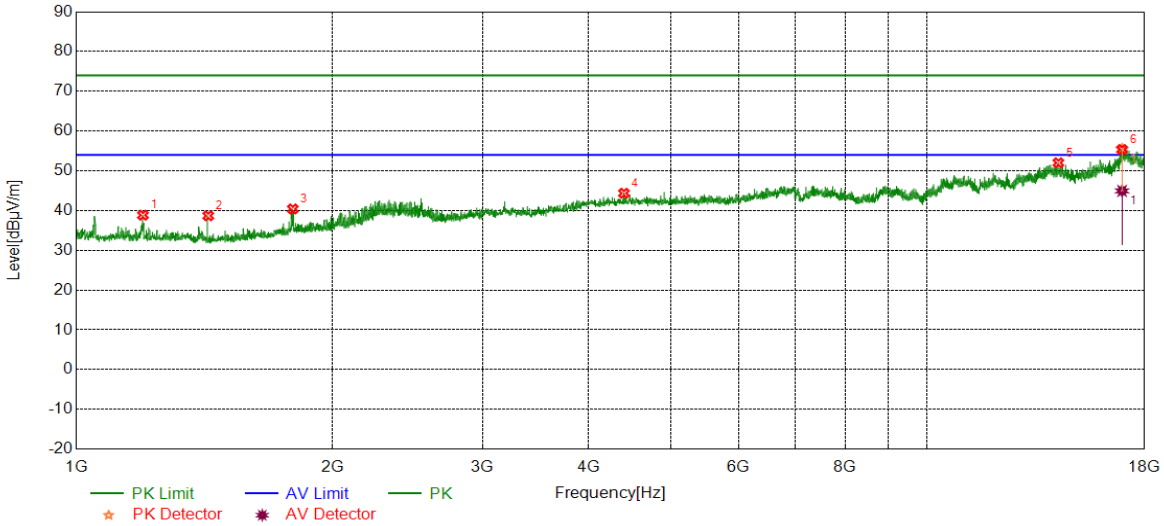
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	43.90	-5.47	38.43	74.00	-35.57	peak
2	1394.7983	43.12	-5.66	37.46	74.00	-36.54	peak
3	1797.5992	42.98	-3.90	39.08	74.00	-34.92	peak
4	6705.6176	37.40	8.28	45.68	74.00	-28.32	peak
5	13934.3224	35.70	16.04	51.74	74.00	-22.26	peak
6	17042.3404	35.24	19.56	54.80	74.00	-19.20	peak
		24.52	19.56	44.08	54.00	-9.92	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

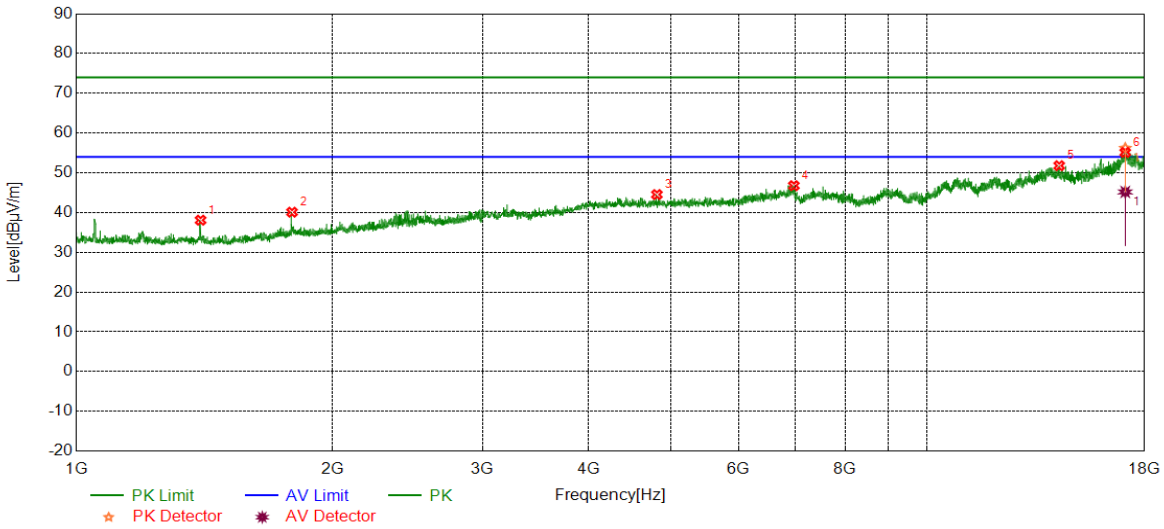


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1197.3991	44.38	-5.54	38.84	74.00	-35.16	peak
2	1428.8096	44.39	-5.71	38.68	74.00	-35.32	peak
3	1796.2654	44.33	-3.92	40.41	74.00	-33.59	peak
4	4400.2334	39.25	5.11	44.36	74.00	-29.64	peak
5	14254.3757	36.21	15.81	52.02	74.00	-21.98	peak
6	16934.8225	35.94	19.50	55.44	74.00	-18.56	peak
		25.45	19.50	44.95	54.00	-9.05	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9.2.4. 802.11n HT40 MODE

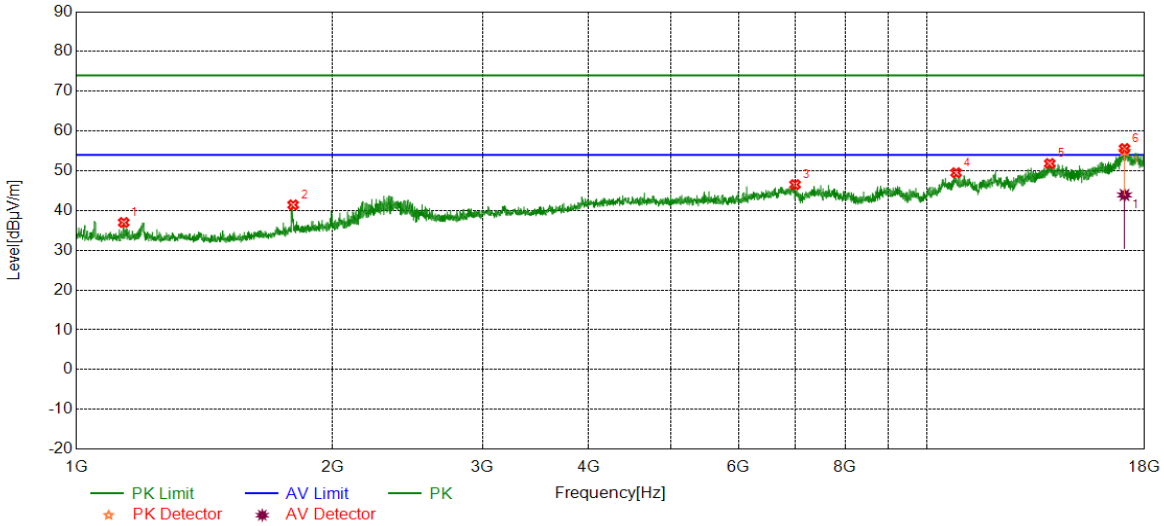
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1399.4665	43.64	-5.56	38.08	74.00	-35.92	peak
2	1792.2641	44.05	-3.96	40.09	74.00	-33.91	peak
3	4810.3017	39.55	4.98	44.53	74.00	-29.47	peak
4	6968.1614	38.17	8.59	46.76	74.00	-27.24	peak
5	14284.3807	36.17	15.62	51.79	74.00	-22.21	peak
6	17079.8466	36.67	19.50	56.17	74.00	-17.83	peak
		25.69	19.50	45.19	54.00	-8.81	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

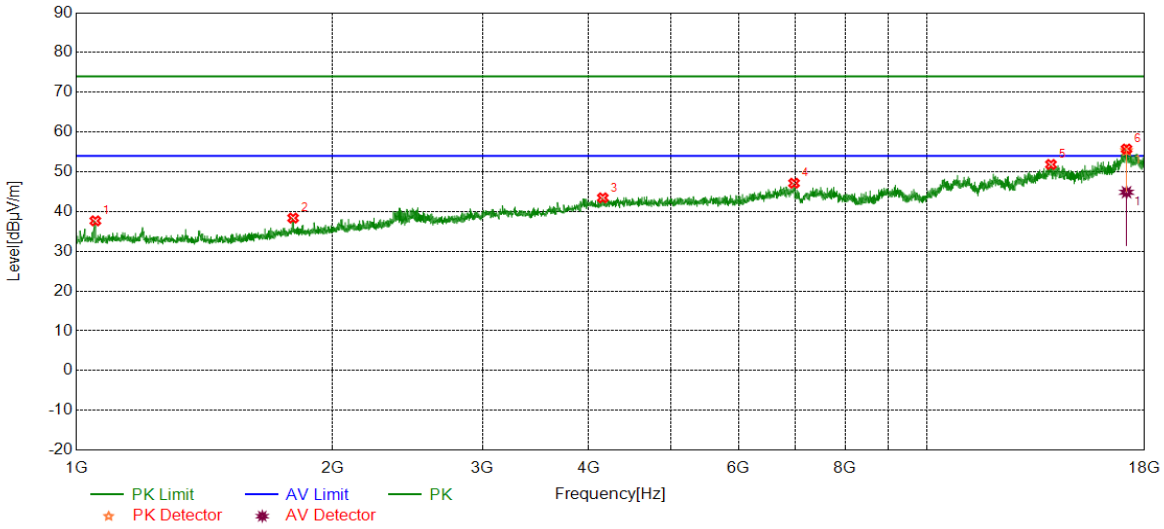
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1136.7122	42.54	-5.55	36.99	74.00	-37.01	peak
2	1797.5992	45.33	-3.90	41.43	74.00	-32.57	peak
3	6990.6651	38.00	8.52	46.52	74.00	-27.48	peak
4	10808.8015	36.63	12.88	49.51	74.00	-24.49	peak
5	13924.3207	35.76	16.06	51.82	74.00	-22.18	peak
6	17047.3412	34.80	20.16	54.96	74.00	-19.04	peak
		23.76	20.16	43.92	54.00	-10.08	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

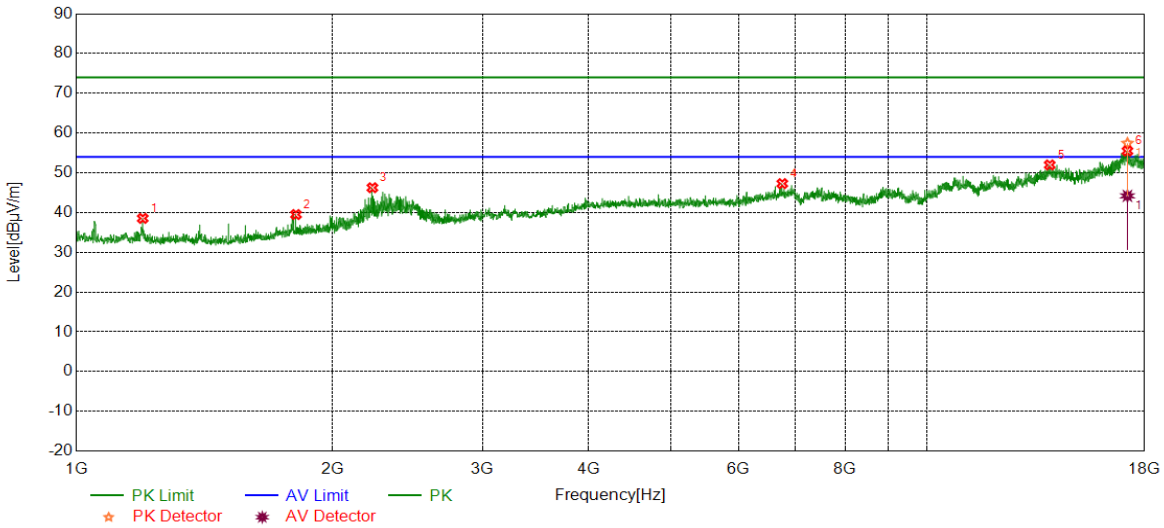
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	43.13	-5.47	37.66	74.00	-36.34	peak
2	1797.5992	42.26	-3.90	38.36	74.00	-35.64	peak
3	4155.1925	38.70	4.75	43.45	74.00	-30.55	peak
4	6970.6618	38.59	8.55	47.14	74.00	-26.86	peak
5	13971.8286	35.81	16.04	51.85	74.00	-22.15	peak
6	17139.8566	36.03	19.30	55.33	74.00	-18.67	peak
		25.57	19.30	44.87	54.00	-9.13	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

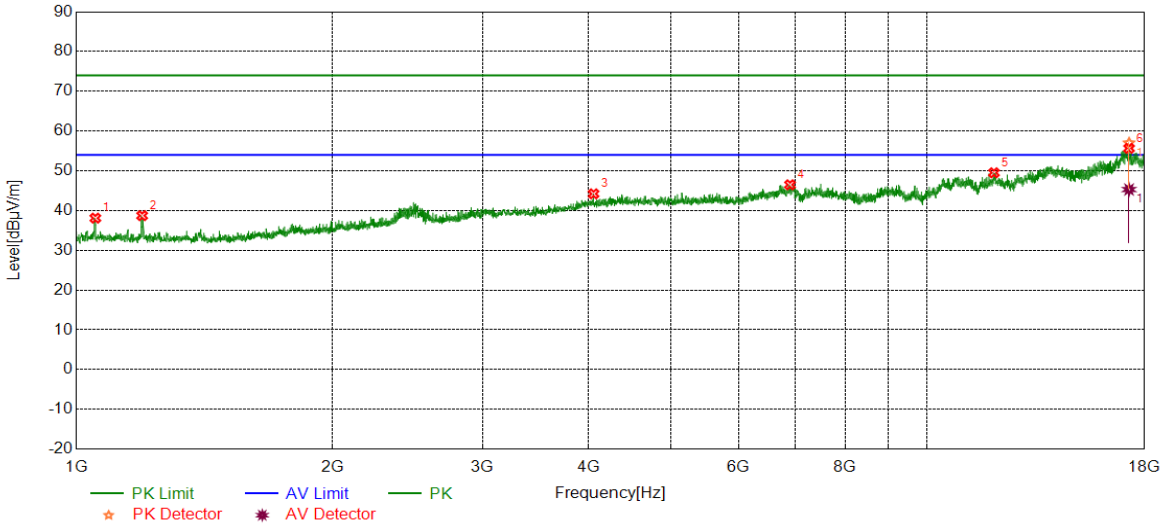
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1196.7322	44.07	-5.54	38.53	74.00	-35.47	peak
2	1811.6039	43.43	-3.93	39.50	74.00	-34.50	peak
3	2227.7426	48.40	-2.15	46.25	74.00	-27.75	peak
4	6753.1255	38.64	8.64	47.28	74.00	-26.72	peak
5	13924.3207	35.92	16.06	51.98	74.00	-22.02	peak
6	17182.3637	37.86	19.58	57.44	74.00	-16.56	peak
		24.62	19.58	44.20	54.00	-9.80	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

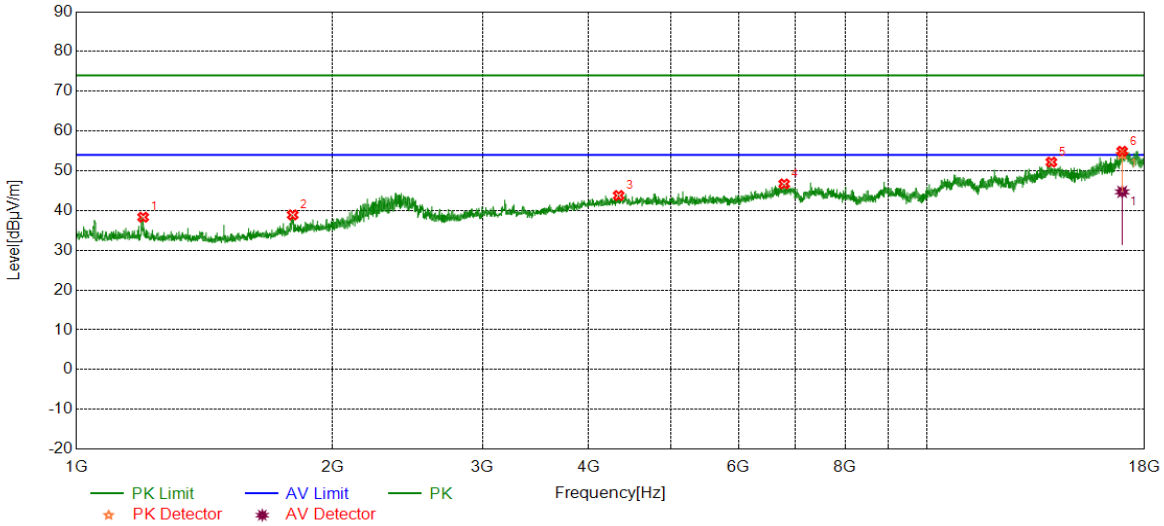
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1052.6842	43.56	-5.47	38.09	74.00	-35.91	peak
2	1194.7316	44.27	-5.55	38.72	74.00	-35.28	peak
3	4052.6754	39.68	4.53	44.21	74.00	-29.79	peak
4	6895.6493	38.19	8.30	46.49	74.00	-27.51	peak
5	11973.9957	35.81	13.70	49.51	74.00	-24.49	peak
6	17257.3762	38.45	18.56	57.01	74.00	-16.99	peak
		26.73	18.56	45.29	54.00	-8.71	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



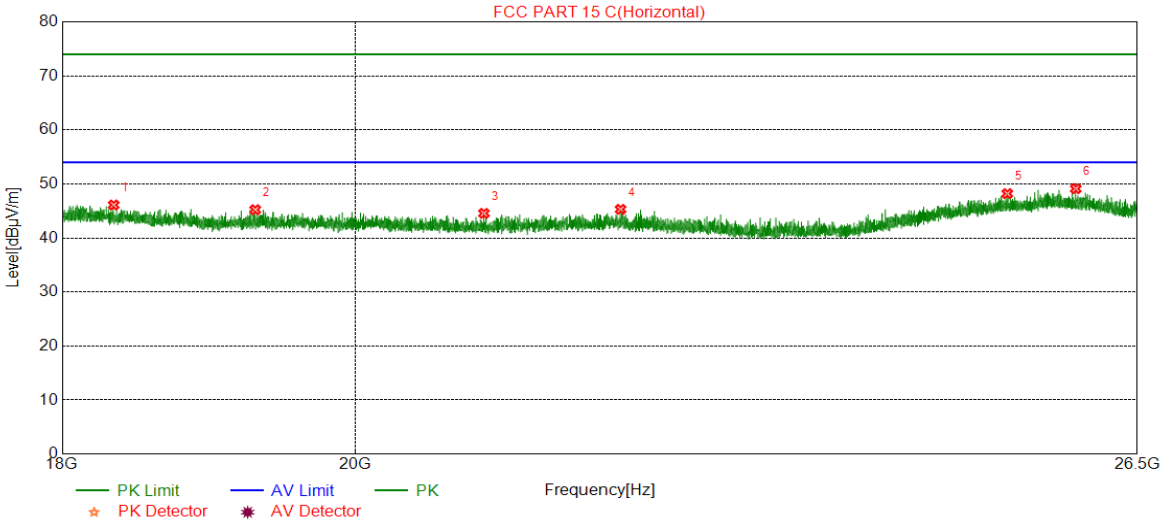
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.0660	43.87	-5.54	38.33	74.00	-35.67	peak
2	1795.5985	42.82	-3.92	38.90	74.00	-35.10	peak
3	4337.7230	38.92	4.86	43.78	74.00	-30.22	peak
4	6788.1314	38.40	8.30	46.70	74.00	-27.30	peak
5	13986.8311	35.91	16.28	52.19	74.00	-21.81	peak
6	16939.8233	34.08	20.07	54.15	74.00	-19.85	peak
		24.64	20.07	44.71	54.00	-9.29	average

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9.3. SPURIOUS EMISSIONS (18~26GHz)

9.3.1. 802.11b MODE

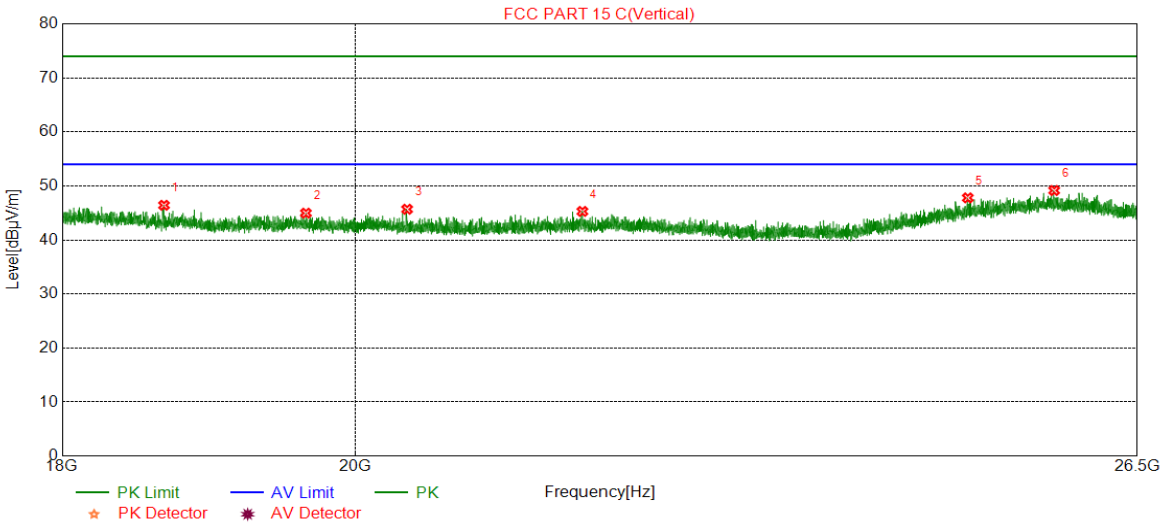
SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	18336.6337	49.45	-3.35	46.10	74.00	-27.90	peak
2	19294.6795	48.87	-3.65	45.22	74.00	-28.78	peak
3	20949.7950	48.11	-3.56	44.55	74.00	-29.45	peak
4	22005.6006	48.19	-2.90	45.29	74.00	-28.71	peak
5	25291.1791	48.45	-0.25	48.20	74.00	-25.80	peak
6	25921.9422	48.24	0.87	49.11	74.00	-24.89	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	18671.5672	50.04	-3.62	46.42	74.00	-27.58	peak
2	19650.0150	48.27	-3.31	44.96	74.00	-29.04	peak
3	20378.5379	48.85	-3.17	45.68	74.00	-28.32	peak
4	21705.5206	48.42	-3.14	45.28	74.00	-28.72	peak
5	24934.1434	48.64	-0.86	47.78	74.00	-26.22	peak
6	25721.3221	48.63	0.52	49.15	74.00	-24.85	peak

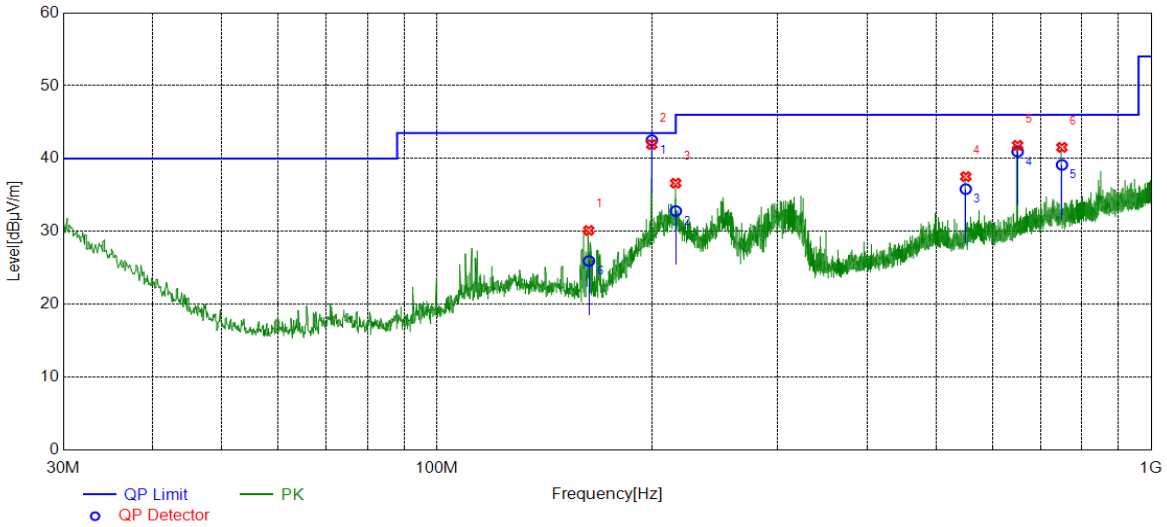
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10 Hz.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the test modes have been tested, only the worst data record in the report.

9.4. SPURIOUS EMISSIONS (0.03 ~ 1 GHz)

9.4.1. 802.11b MODE

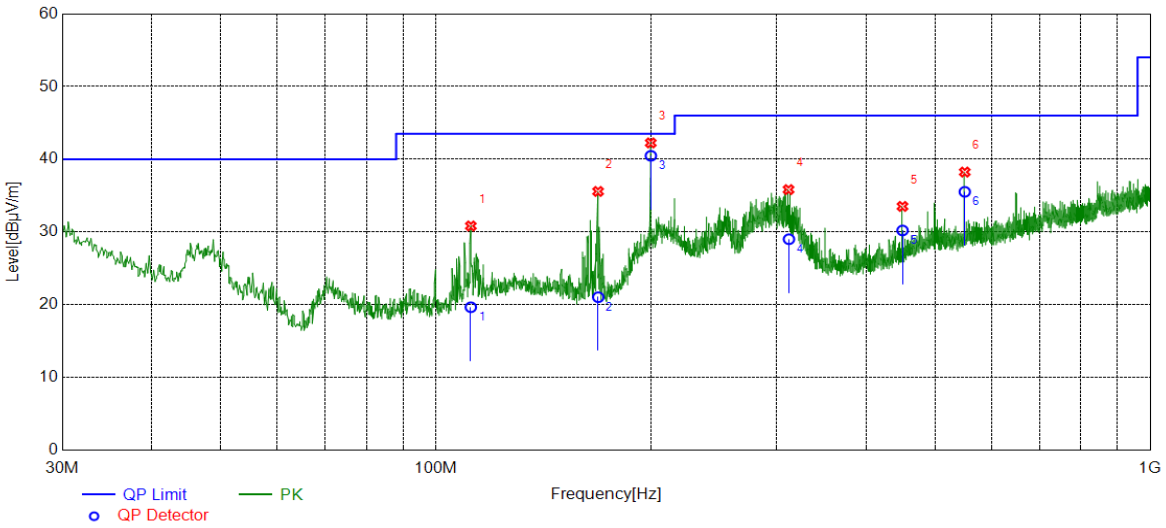
SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	200.0117	23.40	19.12	42.52	43.50	-0.98	QP
2	216.0327	14.90	17.90	32.80	46.00	-13.20	QP
3	550.0097	9.68	26.13	35.81	46.00	-10.19	QP
4	650.0150	13.43	27.51	40.94	46.00	-5.06	QP
5	750.0234	9.98	29.15	39.13	46.00	-6.87	QP
6	163.2999	7.36	18.58	25.94	43.50	-17.56	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	111.9370	0.75	18.91	19.66	43.50	-23.84	QP
2	168.7746	2.71	18.33	21.04	43.50	-22.46	QP
3	200.0117	21.36	19.12	40.48	43.50	-3.02	QP
4	312.1113	8.28	20.73	29.01	46.00	-16.99	QP
5	450.0216	5.91	24.30	30.21	46.00	-15.79	QP
6	550.0082	9.40	26.13	35.53	46.00	-10.47	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

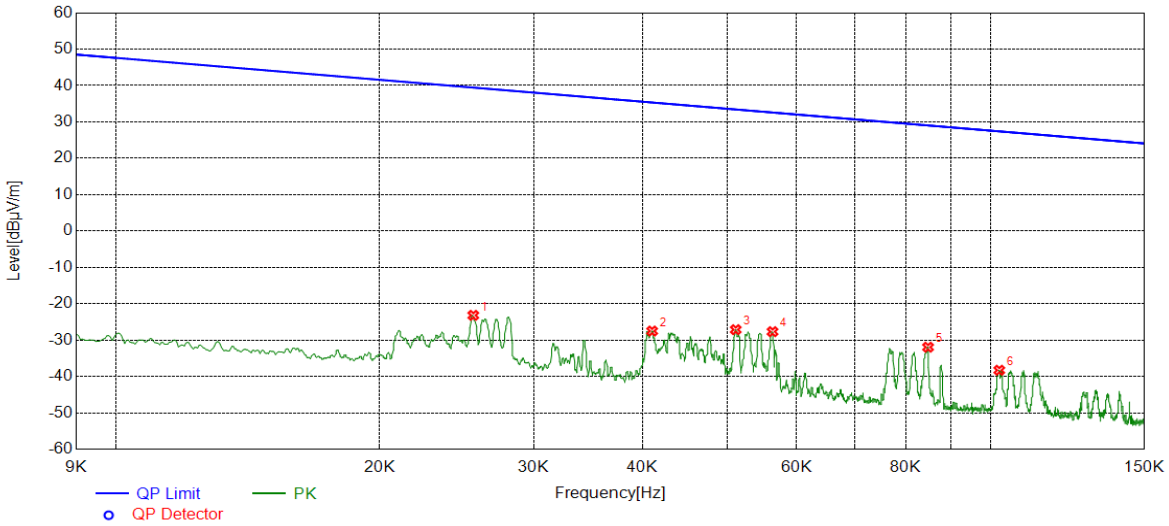
Note: All constructions and test modes have been tested, only the worst data record in the report.

9.5. SPURIOUS EMISSIONS BELOW 30M

9.5.1. 802.11b MODE

SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)

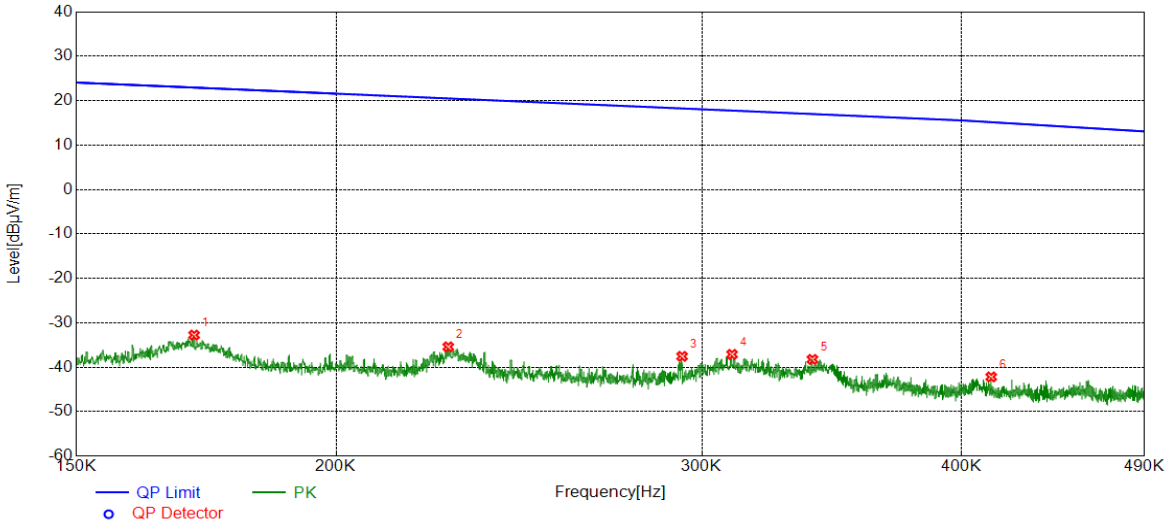
0.09~ 150kHz



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0256	37.81	-61.00	-23.19	39.45	-62.64	peak
2	0.0410	33.59	-61.10	-27.51	35.34	-62.85	peak
3	0.0511	34.05	-61.18	-27.13	33.43	-60.56	peak
4	0.0563	33.58	-61.26	-27.68	32.59	-60.27	peak
5	0.0848	29.33	-61.28	-31.95	29.03	-60.98	peak
6	0.1023	22.59	-60.88	-38.29	27.40	-65.69	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

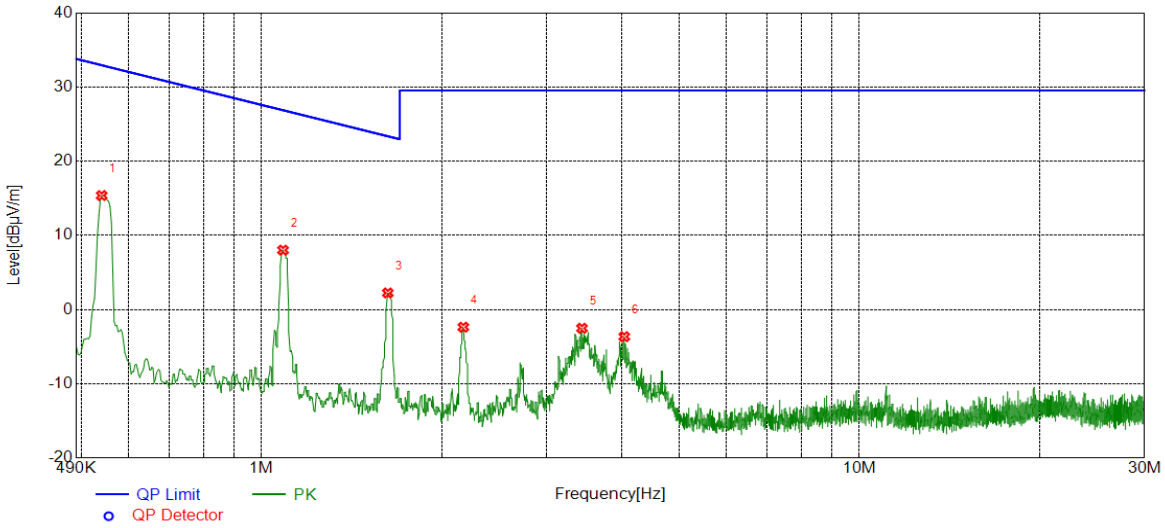
150kHz ~ 490kHz



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1709	28.58	-61.34	-32.76	22.95	-55.71	peak
2	0.2265	25.65	-61.06	-35.41	20.50	-55.91	peak
3	0.2935	23.36	-60.91	-37.55	18.25	-55.80	peak
4	0.3102	23.79	-60.89	-37.10	17.77	-54.87	peak
5	0.3391	22.63	-60.87	-38.24	17.00	-55.24	peak
6	0.4134	18.62	-60.80	-42.18	15.16	-57.34	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

490kHz ~ 30MHz



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.5402	36.11	-20.74	15.37	32.95	-17.58	peak
2	1.0862	28.49	-20.48	8.01	26.89	-18.88	peak
3	1.6262	22.63	-20.39	2.24	23.38	-21.14	peak
4	2.1752	18.01	-20.38	-2.37	29.54	-31.91	peak
5	3.4354	17.88	-20.40	-2.52	29.54	-32.06	peak
6	4.0434	16.52	-20.17	-3.65	29.54	-33.19	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

Note: All constructions and test modes have been tested, only the worst data record in the report.

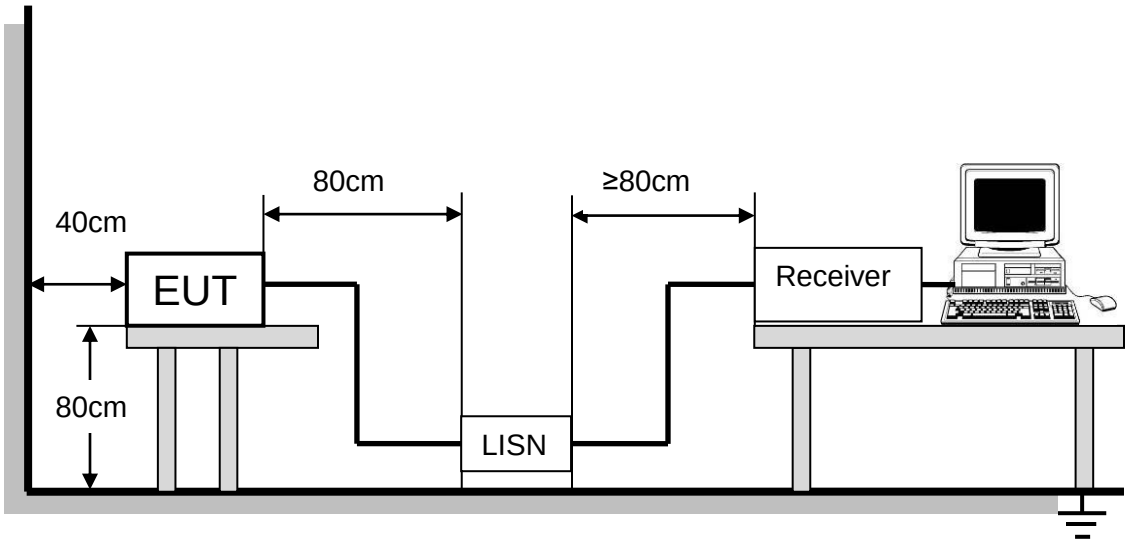
10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE



The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 7 and 13 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

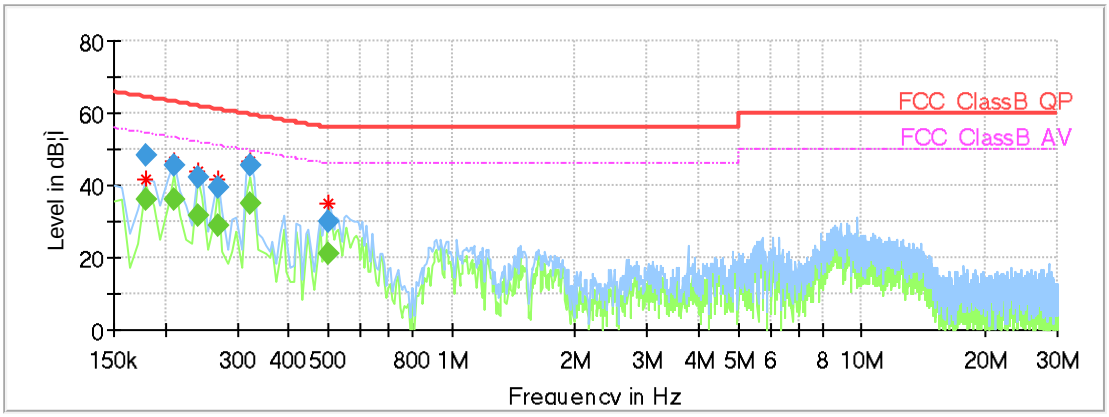
TEST ENVIRONMENT

Temperature	20°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST RESULTS

10.1. 802.11b MODE

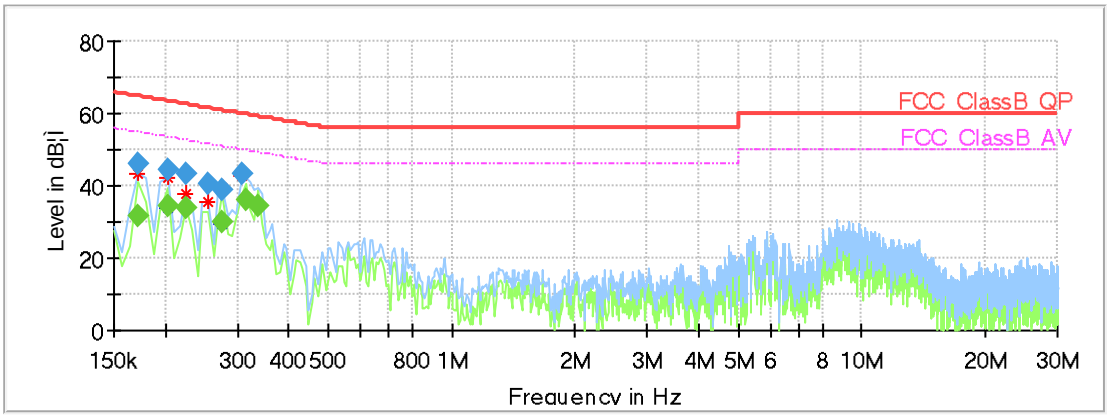
LINE N RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.179850	---	36.22	54.49	18.27	1000.0	9.000	N	OFF	9.6
0.179850	48.51	---	64.49	15.99	1000.0	9.000	N	OFF	9.6
0.209700	---	36.06	53.22	17.15	1000.0	9.000	N	OFF	9.6
0.209700	45.34	---	63.22	17.88	1000.0	9.000	N	OFF	9.6
0.239550	---	31.52	52.11	20.59	1000.0	9.000	N	OFF	9.6
0.239550	42.42	---	62.11	19.69	1000.0	9.000	N	OFF	9.6
0.269400	39.71	---	61.14	21.43	1000.0	9.000	N	OFF	9.6
0.269400	---	28.91	51.14	22.23	1000.0	9.000	N	OFF	9.6
0.321638	45.74	---	59.66	13.93	1000.0	9.000	N	OFF	9.6
0.321638	---	35.27	49.66	14.40	1000.0	9.000	N	OFF	9.6
0.500738	---	21.36	46.00	24.64	1000.0	9.000	N	OFF	9.6
0.500738	29.88	---	56.00	26.12	1000.0	9.000	N	OFF	9.6

LINE L RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.172388	---	31.86	54.85	22.98	1000.0	9.000	L1	OFF	9.6
0.172388	46.28	---	64.85	18.56	1000.0	9.000	L1	OFF	9.6
0.202238	---	34.53	53.52	18.99	1000.0	9.000	L1	OFF	9.6
0.202238	44.50	---	63.52	19.02	1000.0	9.000	L1	OFF	9.6
0.224625	---	34.15	52.65	18.49	1000.0	9.000	L1	OFF	9.6
0.224625	43.57	---	62.65	19.08	1000.0	9.000	L1	OFF	9.6
0.254475	40.60	---	61.61	21.01	1000.0	9.000	L1	OFF	9.6
0.276863	39.03	---	60.91	21.88	1000.0	9.000	L1	OFF	9.6
0.276863	---	29.95	50.91	20.96	1000.0	9.000	L1	OFF	9.6
0.306713	43.28	---	60.06	16.78	1000.0	9.000	L1	OFF	9.6
0.314175	---	36.11	49.86	13.75	1000.0	9.000	L1	OFF	9.6
0.336563	---	34.46	49.29	14.82	1000.0	9.000	L1	OFF	9.6

Note: All the test modes have been tested, only the worst data record in the report.

11. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §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. 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.

Please refer to FCC §15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Complies

END OF REPORT