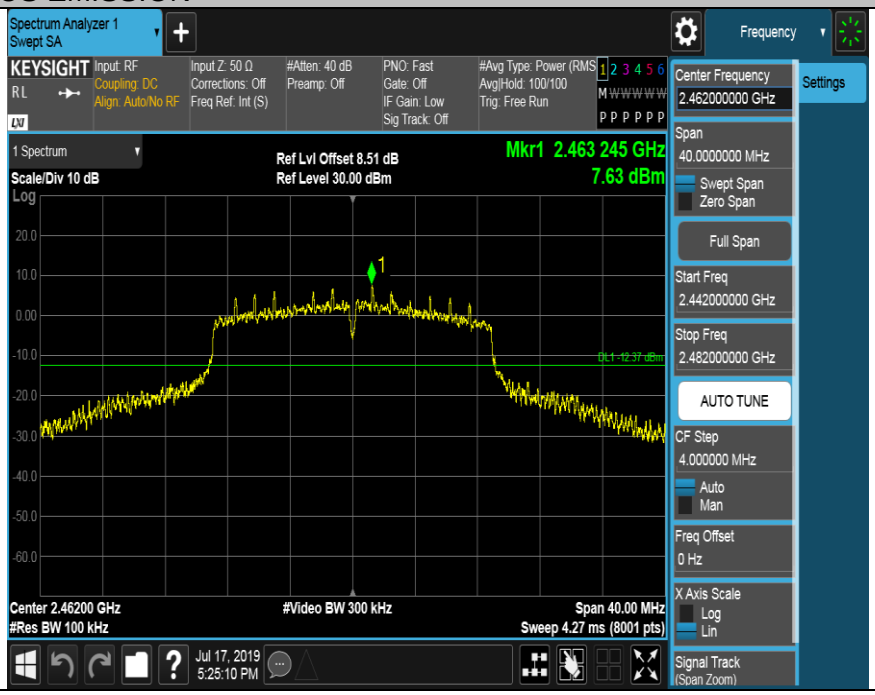
Test Mode	Channel	Verdict
11N HT20	HCH	PASS

Pref test Plot

HCH SPURIOUS EMISSION



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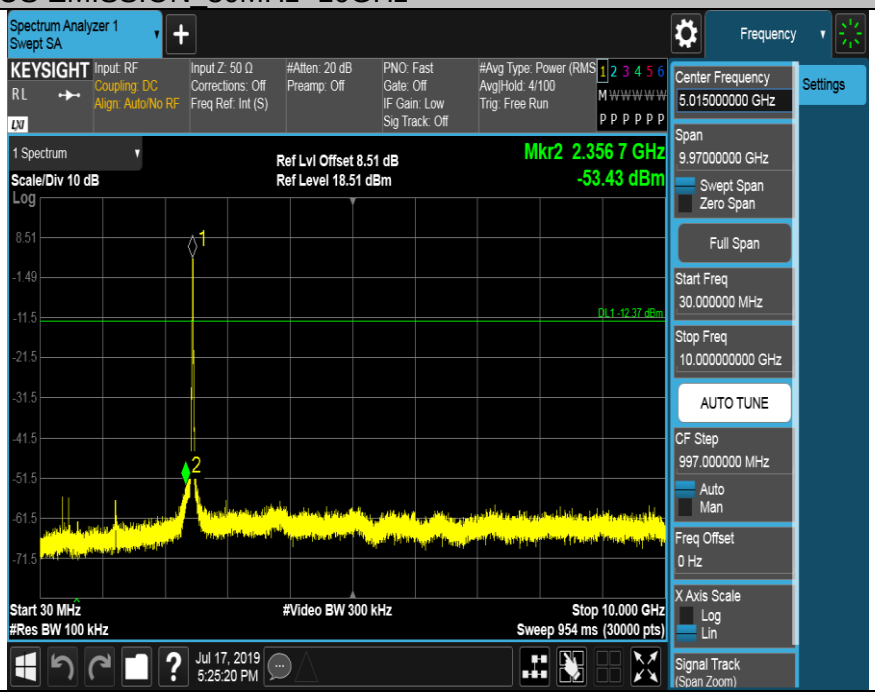
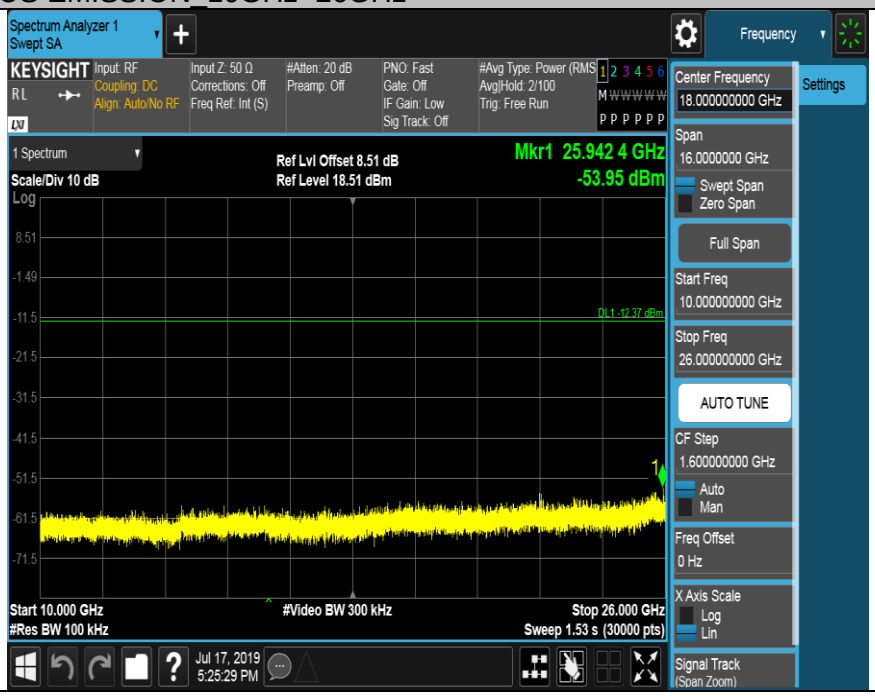
Puw test Plot

HCH SPURIOUS EMISSION_30MHz~10GHz



HCH SPURIOUS EMISSION_10GHz~26GHz



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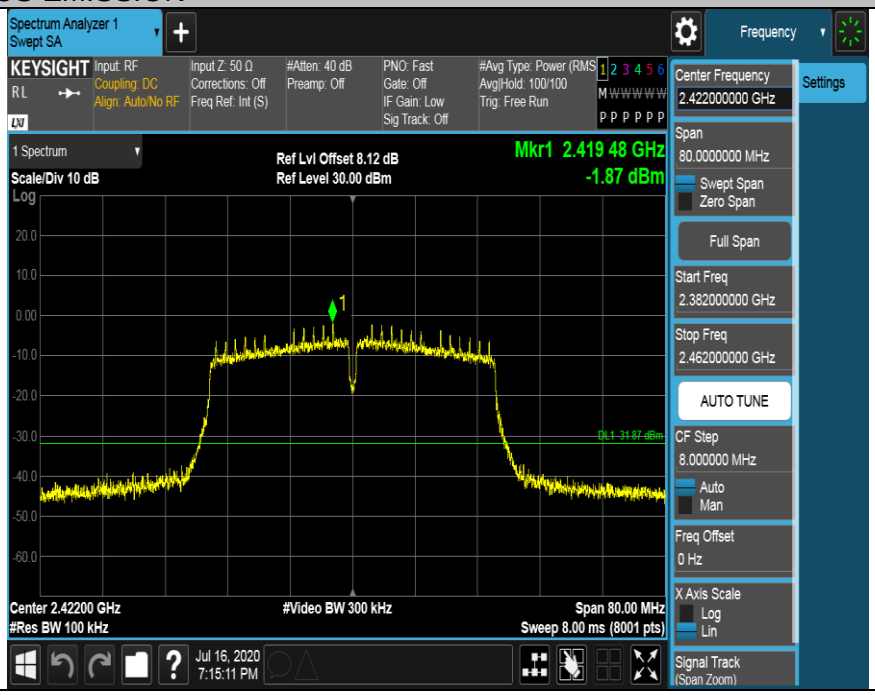
Test Mode	Channel	Verdict
11N HT40	LCH	PASS

Pref test Plot

LCH SPURIOUS EMISSION


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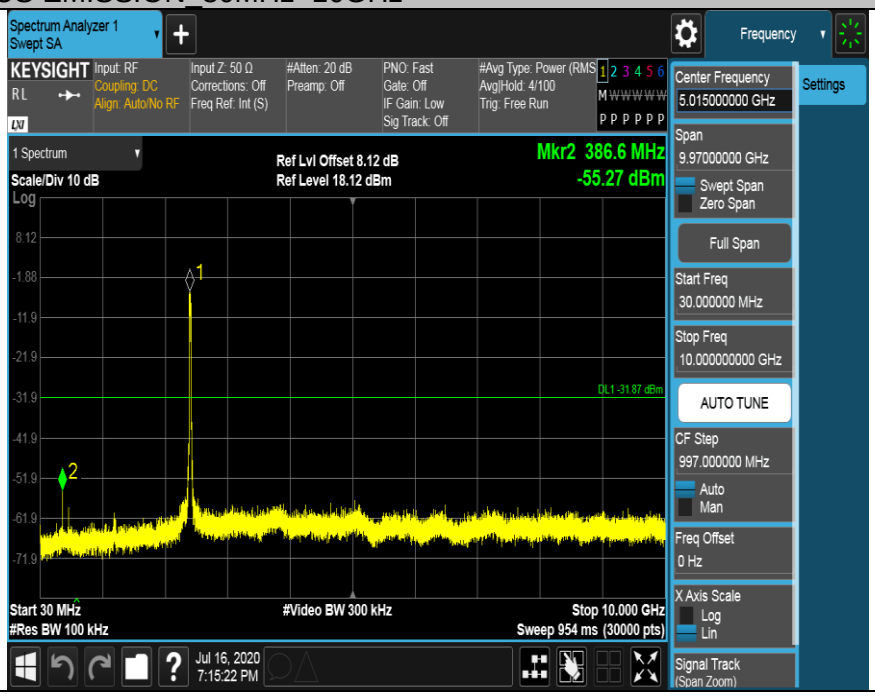
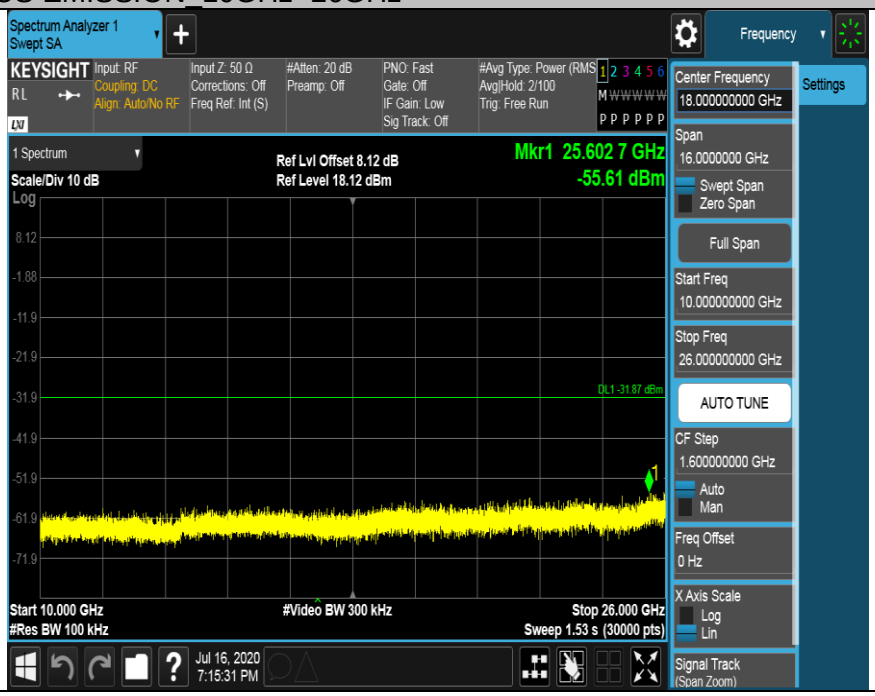
Puw test Plot

LCH SPURIOUS EMISSION_30MHz~10GHz



LCH SPURIOUS EMISSION_10GHz~26GHz



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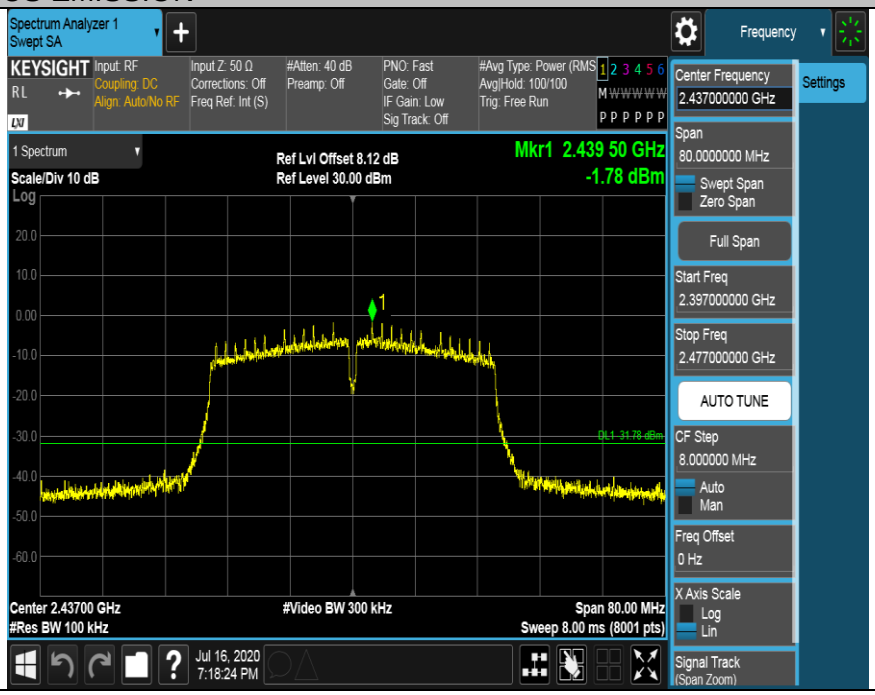
Test Mode	Channel	Verdict
11N HT40	MCH	PASS

Pref test Plot

MCH SPURIOUS EMISSION



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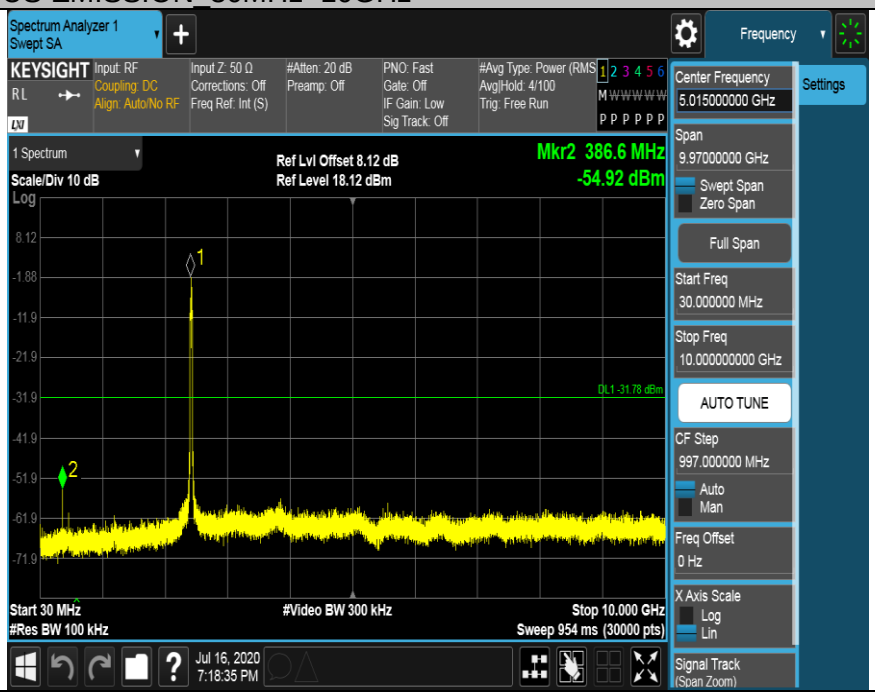
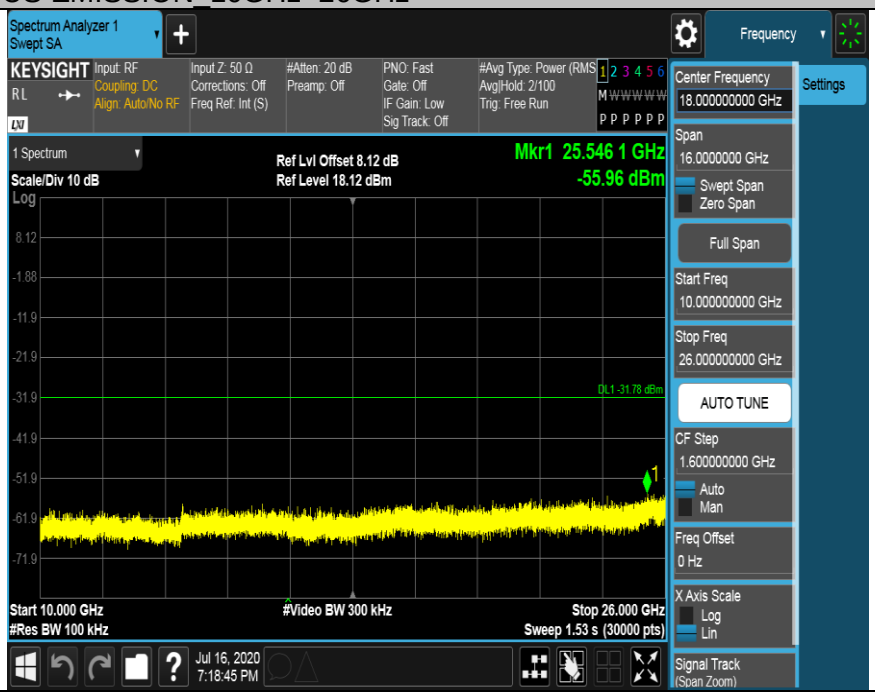
Puw test Plot

MCH SPURIOUS EMISSION_30MHz~10GHz



MCH SPURIOUS EMISSION_10GHz~26GHz



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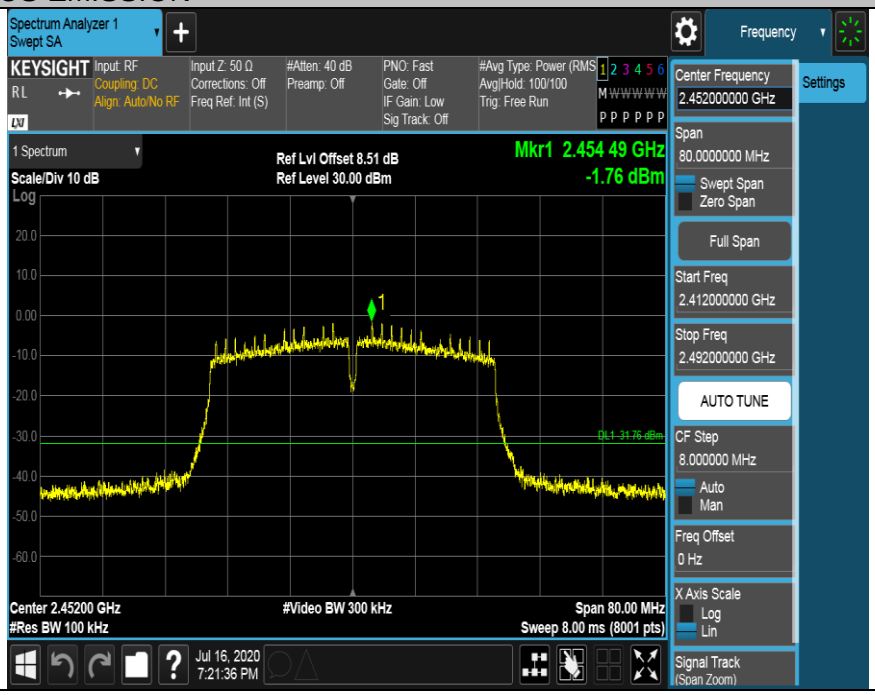
Test Mode	Channel	Verdict
11N HT40	HCH	PASS

Pref test Plot

HCH SPURIOUS EMISSION


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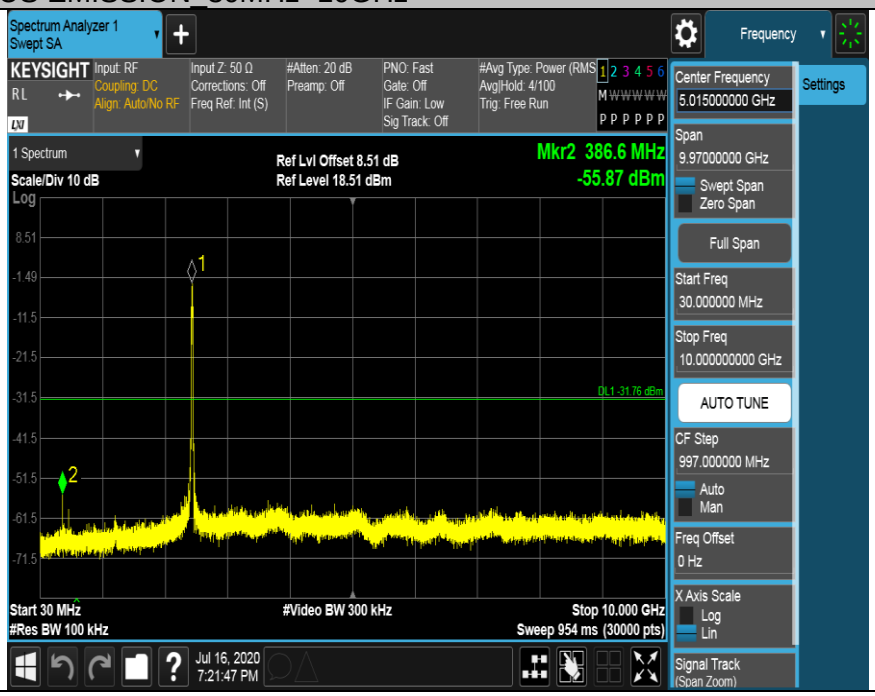
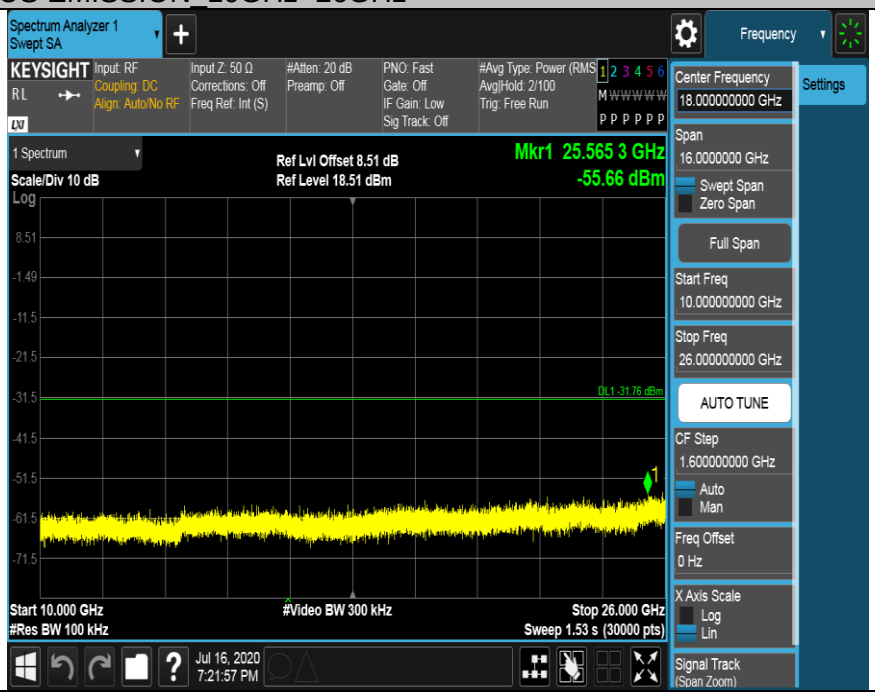
Puw test Plot

HCH SPURIOUS EMISSION_30MHz~10GHz



HCH SPURIOUS EMISSION_10GHz~26GHz



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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.

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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

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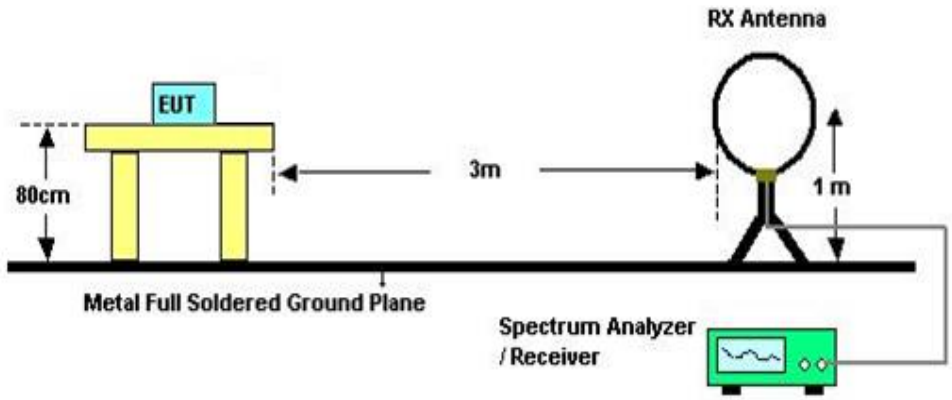
TEST SETUP AND PROCEDURE

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.

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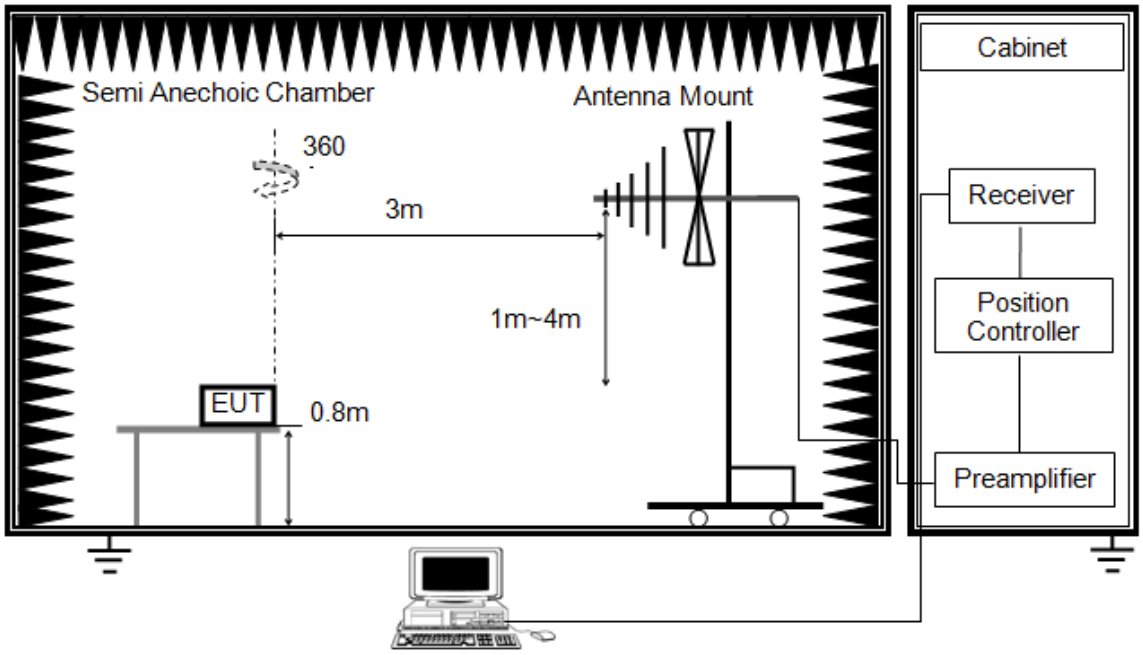
Below 1G



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.

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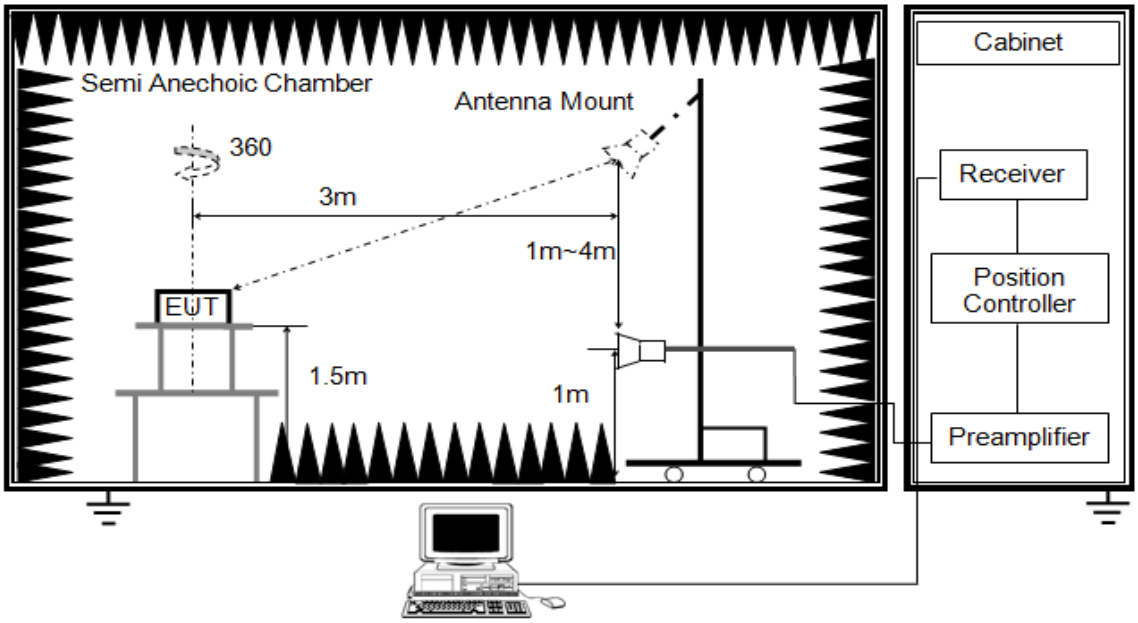
ABOVE 1G



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.

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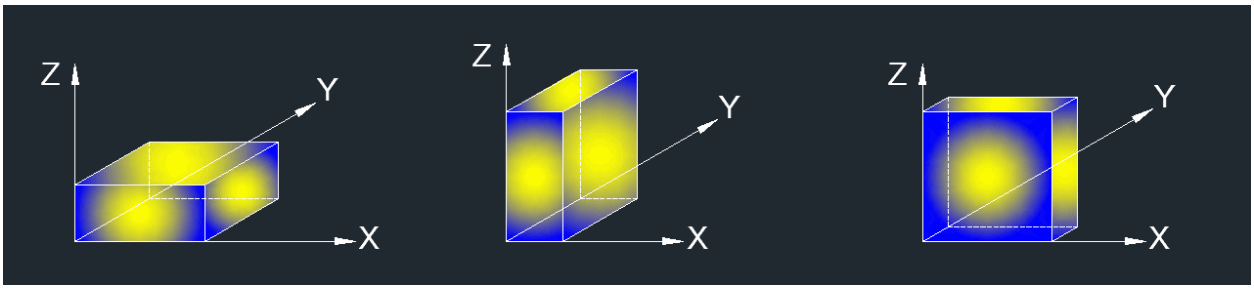
X axis, Y axis, Z axis positions:



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 5V

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9.1. RESTRICTED BANDEDGE

Test Result Table

Test Mode	Channel	Puw(dBm)	Verdict
11B	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11G	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11N HT20	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11N HT40	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS

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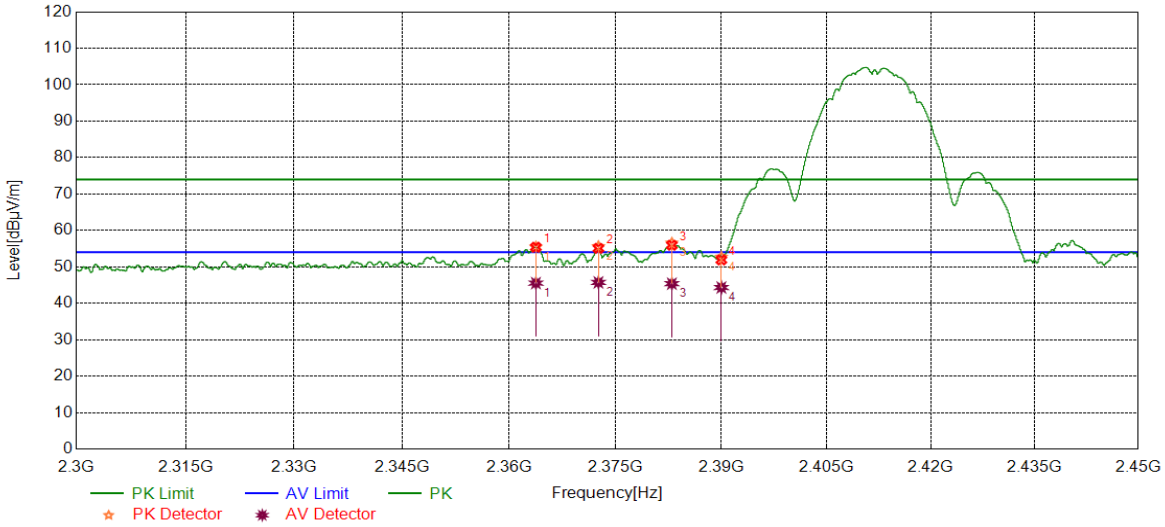
9.1.1. 802.11b MODE

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	2363.7648	41.64	13.78	55.42	74.00	-18.58	peak
		31.76	13.78	45.54	54.00	-8.46	average
2	2372.5784	41.73	13.88	55.61	74.00	-18.39	peak
		31.85	13.88	45.73	54.00	-8.27	average
3	2382.9672	42.47	14.07	56.54	74.00	-17.46	peak
		31.32	14.07	45.39	54.00	-8.61	average
4	2390.0000	39.05	14.09	52.68	74.00	-20.86	peak
		30.25	14.09	44.34	54.00	-9.66	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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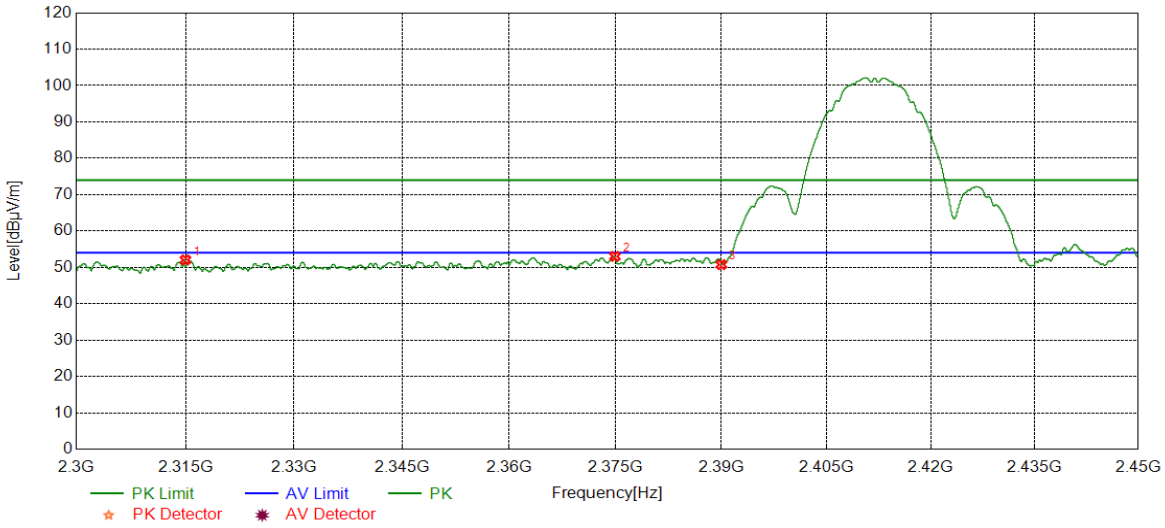
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2314.9831	38.80	13.25	52.05	74.00	-21.95	peak
2	2374.9156	39.09	13.93	53.02	74.00	-20.98	peak
3	2390.0000	36.67	14.09	50.76	74.00	-23.24	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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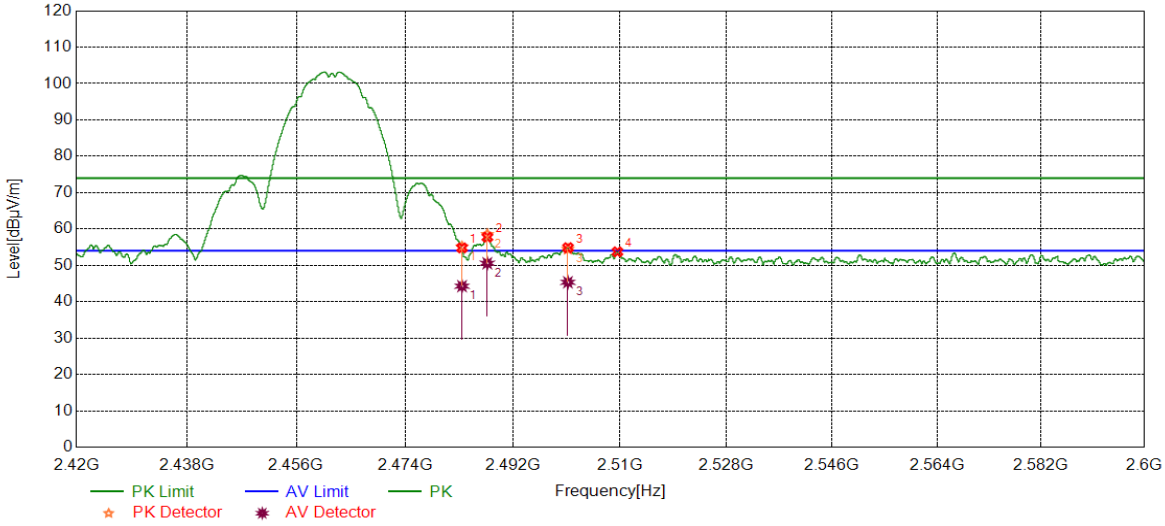
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	41.22	13.88	55.10	74.00	-18.90	peak
		30.40	13.88	44.28	54.00	-9.72	average
2	2487.7174	44.57	13.93	58.50	74.00	-15.50	peak
		36.65	13.93	50.58	54.00	-3.42	average
3	2501.2207	40.34	14.12	54.46	74.00	-19.54	peak
		31.23	14.12	45.35	54.00	-8.65	average
4	2509.5590	39.50	14.22	53.72	74.00	-20.28	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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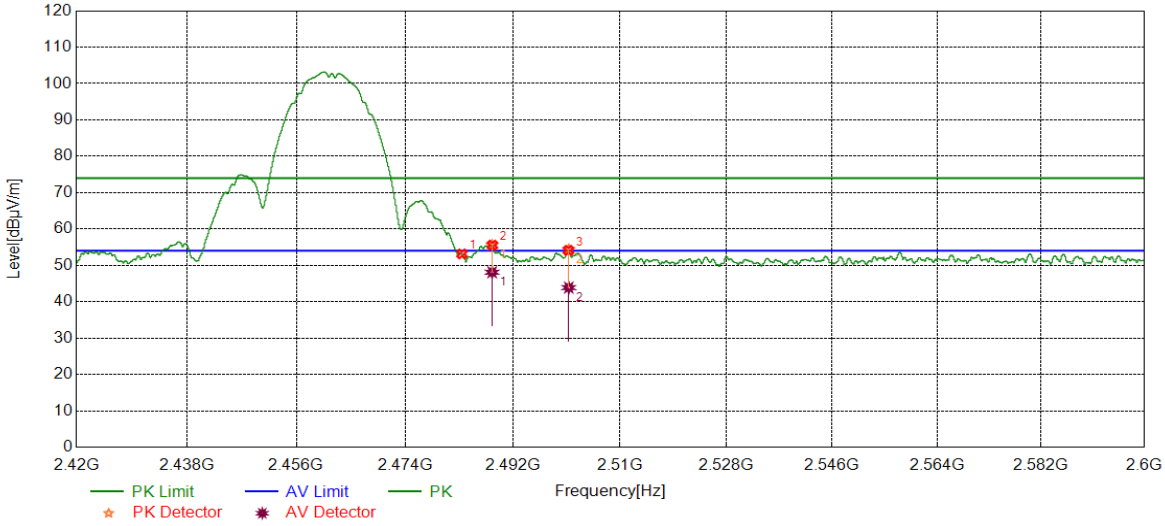
RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	39.27	13.88	53.15	74.00	-20.85	peak
2	2488.5190	41.62	13.94	55.56	74.00	-18.44	peak
		34.17	13.94	48.11	54.00	-5.89	average
3	2501.3640	40.24	14.12	54.36	74.00	-19.64	peak
		29.76	14.12	43.88	54.00	-10.12	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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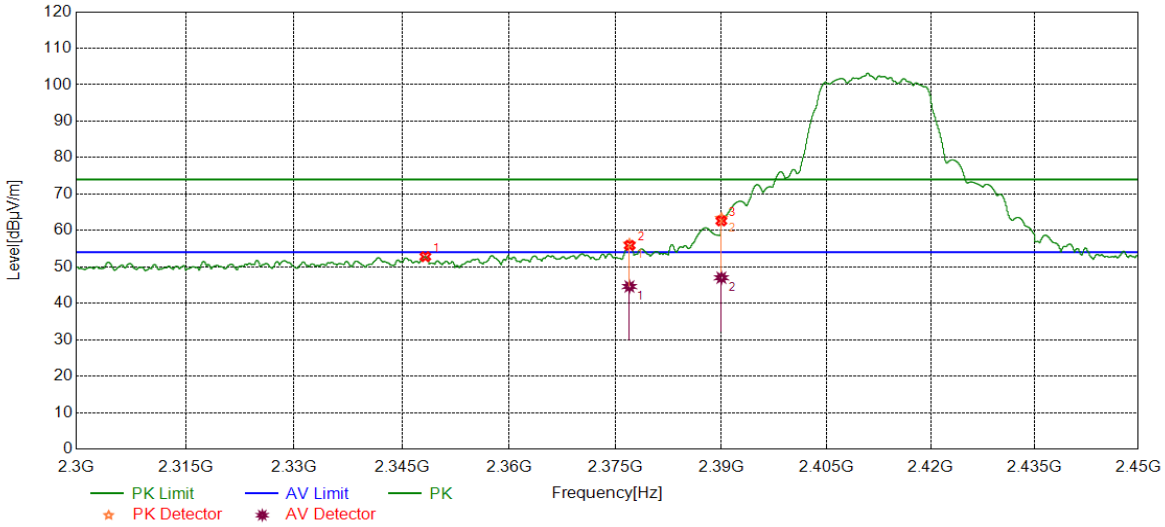
9.1.2. 802.11g MODE

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	2348.2685	39.13	13.67	52.80	74.00	-21.20	peak
2	2376.9577	42.32	13.94	56.26	74.00	-17.74	peak
		30.67	13.94	44.61	54.00	-9.39	average
3	2390.0000	49.25	14.09	63.34	74.00	10.66	peak
		32.93	14.09	47.02	54.00	-6.98	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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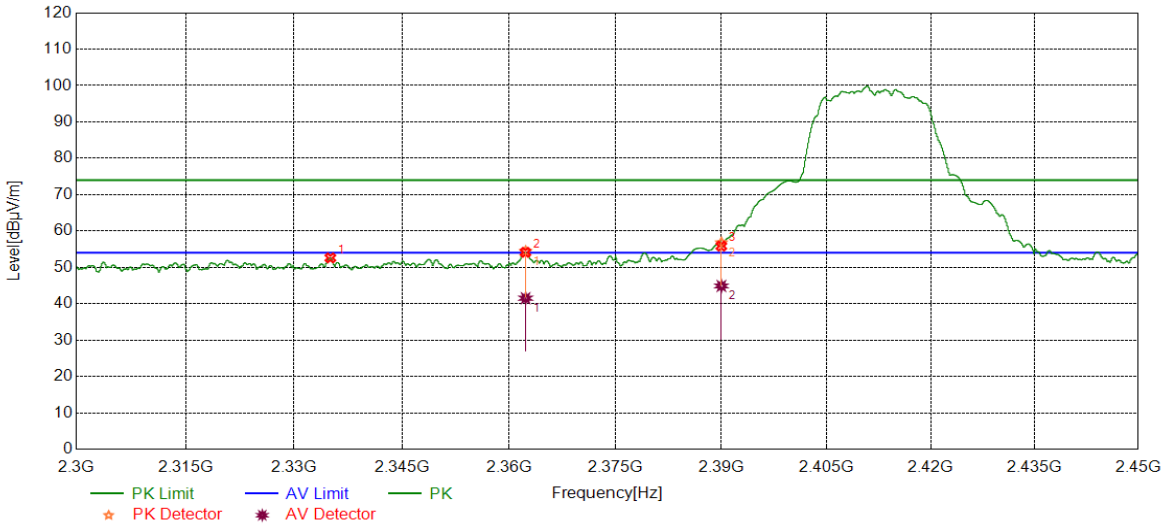
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2335.0294	39.08	13.52	52.60	74.00	-21.40	peak
2	2362.3187	40.62	13.78	54.40	74.00	-19.60	peak
		27.74	13.78	41.52	54.00	-12.48	average
3	2390.0000	42.67	14.09	56.76	74.00	-17.24	peak
		30.80	14.09	44.89	54.00	-9.11	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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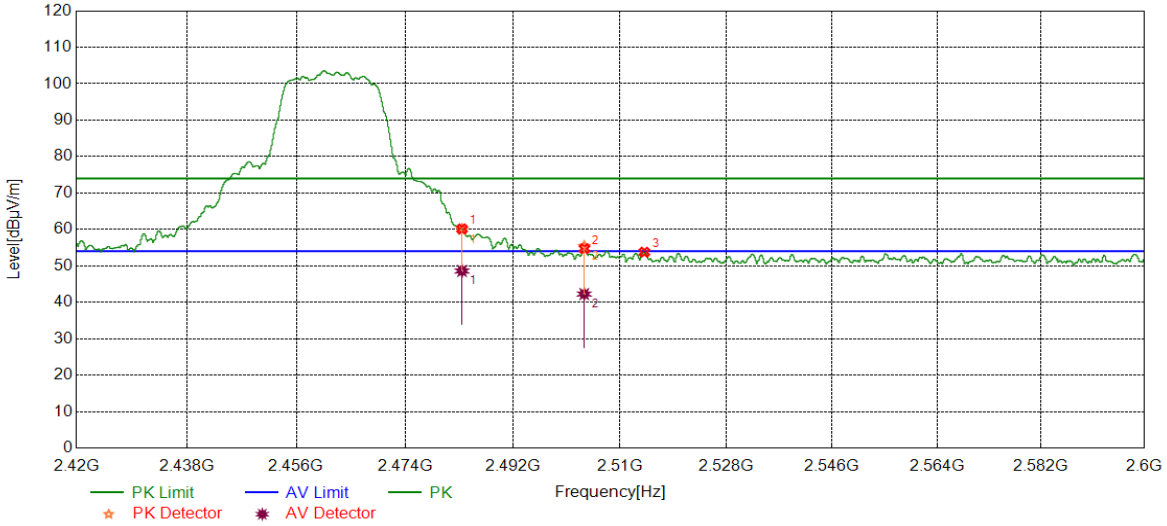
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	46.12	13.88	60.00	74.00	-14.00	peak
		34.72	13.88	48.60	54.00	-5.40	average
2	2503.9645	41.23	14.14	55.37	74.00	-18.63	peak
		28.13	14.14	42.27	54.00	-11.73	average
3	2514.0954	39.55	14.20	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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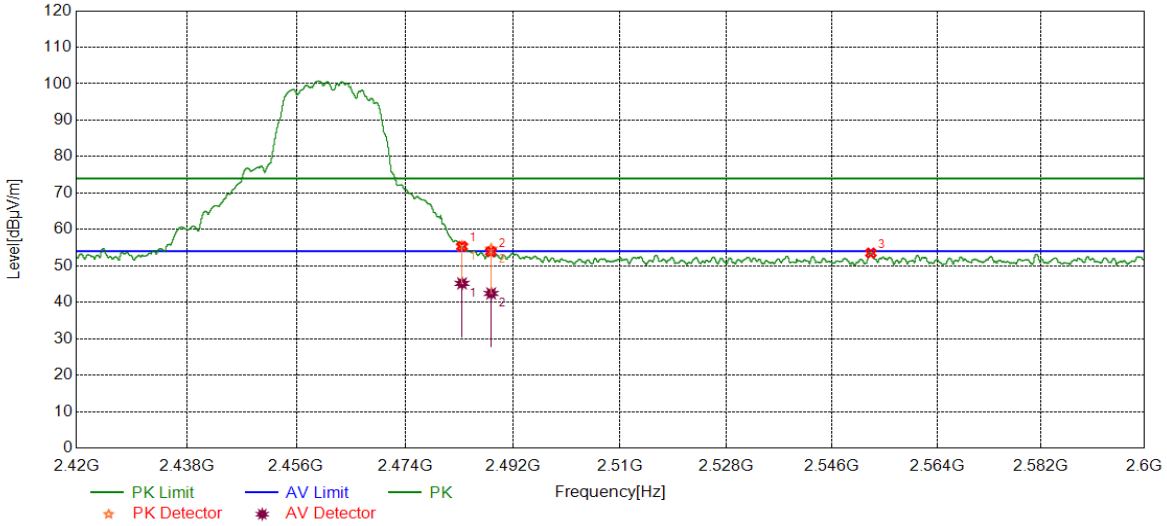
RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	41.52	13.88	55.40	74.00	-18.60	peak
		31.30	13.88	45.18	54.00	-8.82	average
2	2488.3667	40.67	13.95	54.62	74.00	-19.38	peak
		28.48	13.95	42.43	54.00	-11.57	average
3	2552.6373	39.10	14.43	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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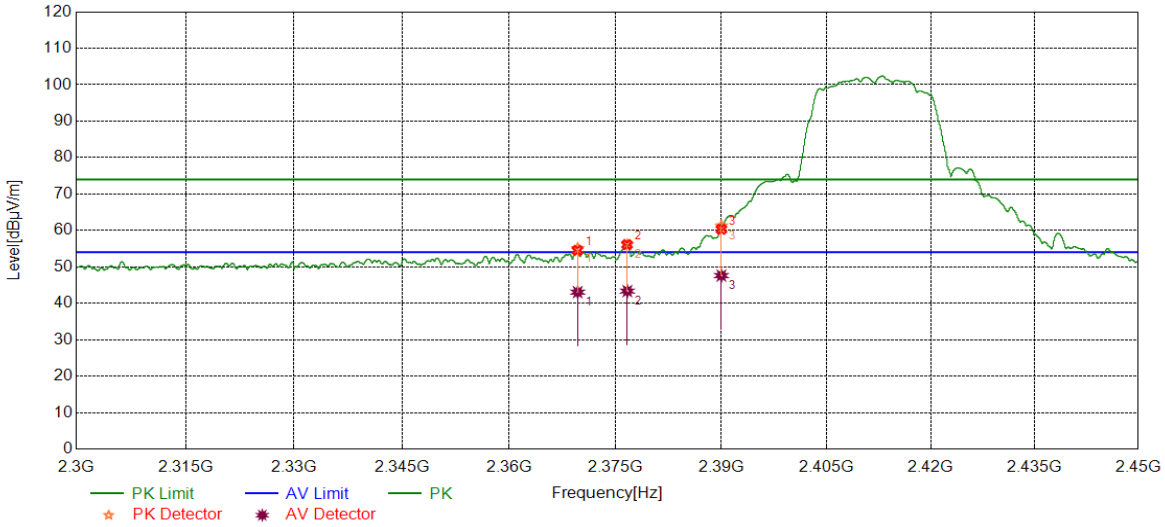
9.1.3. 802.11n HT20 MODE

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	2369.6510	41.23	13.85	55.08	74.00	-18.92	peak
		29.21	13.85	43.06	54.00	-10.94	average
2	2376.6644	42.15	13.93	56.08	74.00	-17.92	peak
		29.42	13.93	43.35	54.00	-10.65	average
3	2390.0000	47.15	14.09	61.24	74.00	-12.76	peak
		33.51	14.09	47.60	54.00	-6.40	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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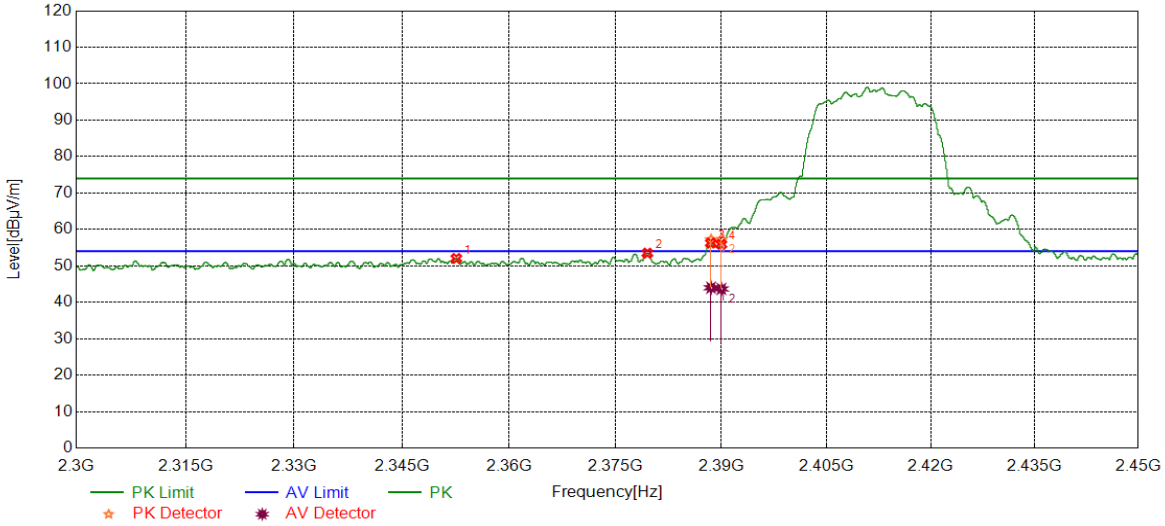
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2352.6003	38.35	13.68	52.03	74.00	-21.97	peak
2	2379.4912	39.49	14.00	53.49	74.00	-20.51	peak
3	2388.5315	43.12	14.07	57.19	74.00	-16.81	peak
		29.93	14.07	44.00	54.00	-10.00	average
4	2390.0000	43.13	14.09	57.22	74.00	-16.78	peak
		29.58	14.09	43.67	54.00	-10.33	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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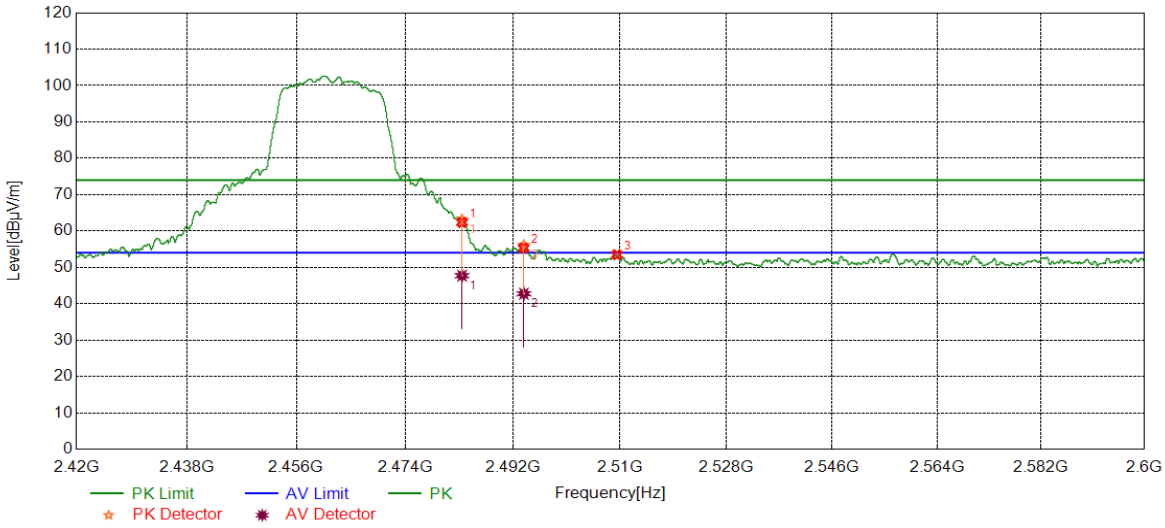
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	49.21	13.88	63.09	74.00	-10.91	peak
		33.84	13.88	47.72	54.00	-6.28	average
2	2493.8393	42.03	14.02	56.05	74.00	-17.95	peak
		28.73	14.02	42.75	54.00	-11.25	average
3	2509.4689	39.26	14.22	53.48	74.00	-20.52	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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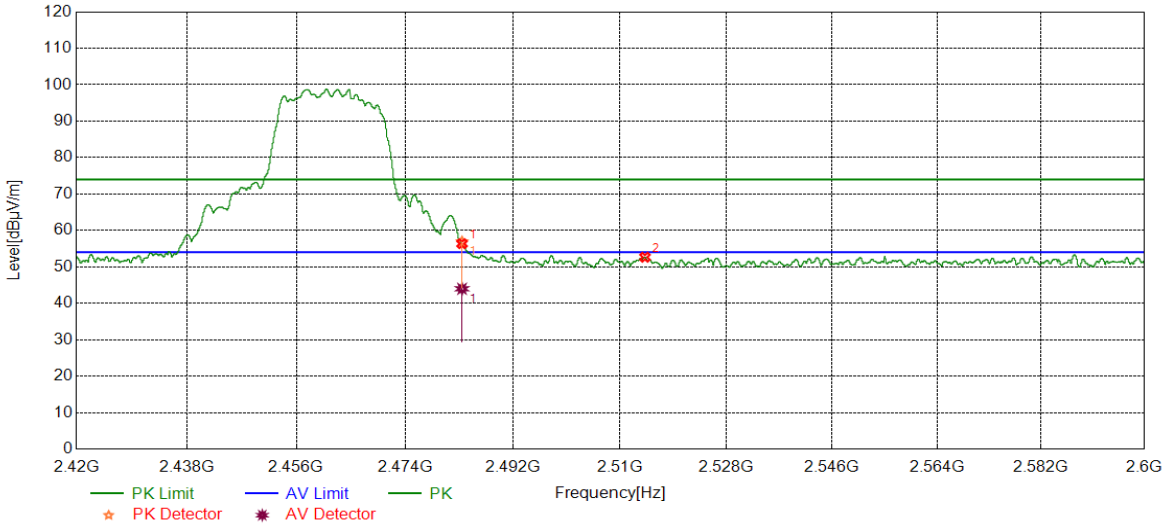
RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	43.02	13.88	56.90	74.00	-17.10	peak
		30.10	13.88	43.98	54.00	-10.02	average
2	2514.2034	38.45	14.20	52.65	74.00	-21.35	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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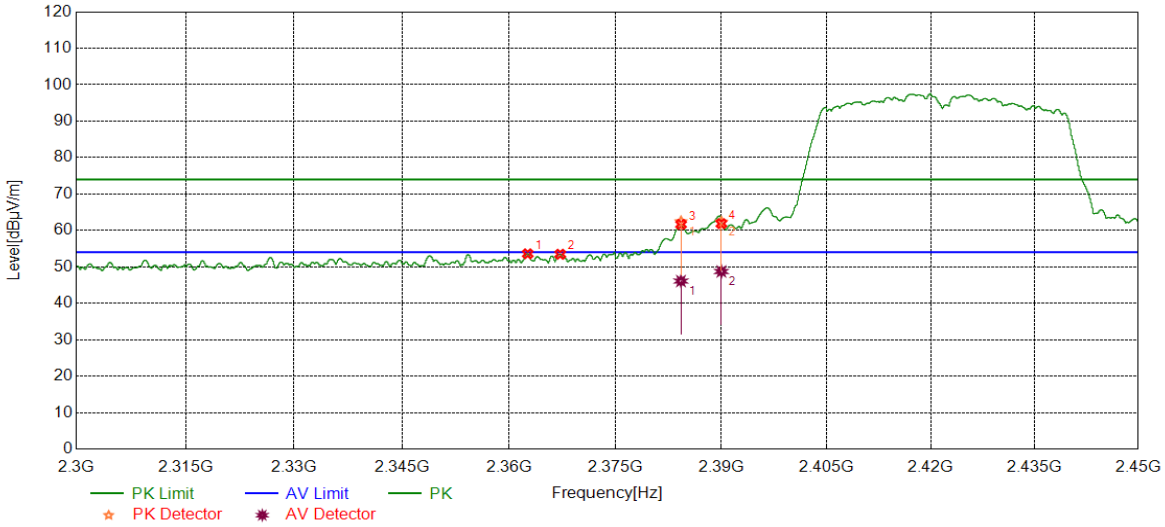
9.1.1. 802.11n HT40 MODE

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	2362.6141	39.82	13.77	53.59	74.00	-20.41	peak
2	2367.1896	39.65	13.82	53.47	74.00	-20.53	peak
3	2384.2555	48.35	14.04	62.39	74.00	-11.61	peak
		32.06	14.04	46.10	54.00	-7.90	average
4	2390.0000	48.23	14.09	62.32	74.00	-11.68	peak
		34.65	14.09	48.74	54.00	-5.26	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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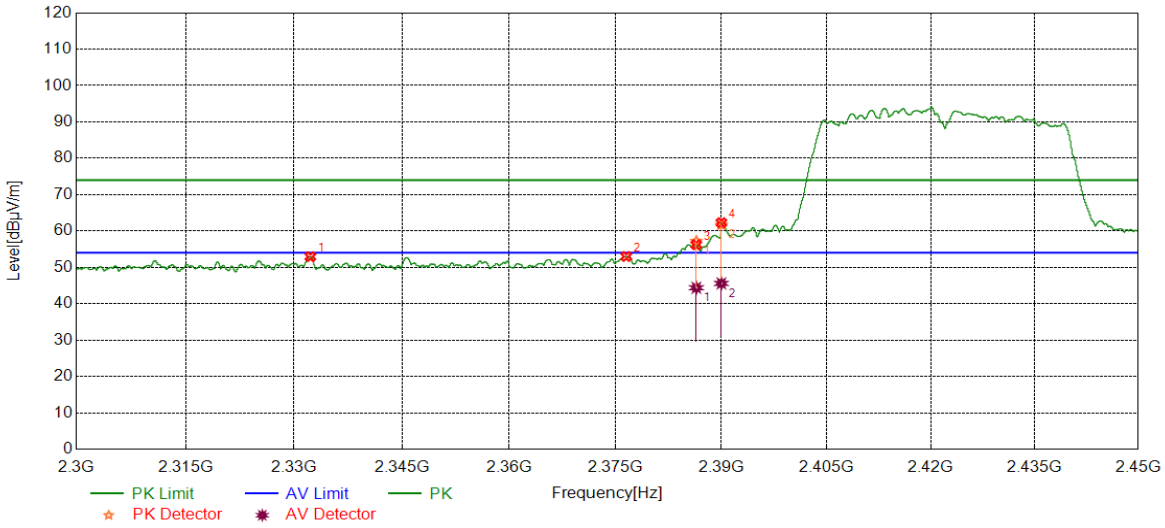
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2332.2540	39.44	13.50	52.94	74.00	-21.06	peak
2	2376.5096	39.06	13.94	53.00	74.00	-21.00	peak
3	2386.4434	43.15	14.03	57.18	74.00	-16.82	peak
		30.36	14.03	44.39	54.00	-9.61	average
4	2390.0000	47.63	14.09	61.72	74.00	-12.28	peak
		31.50	14.09	45.59	54.00	-8.41	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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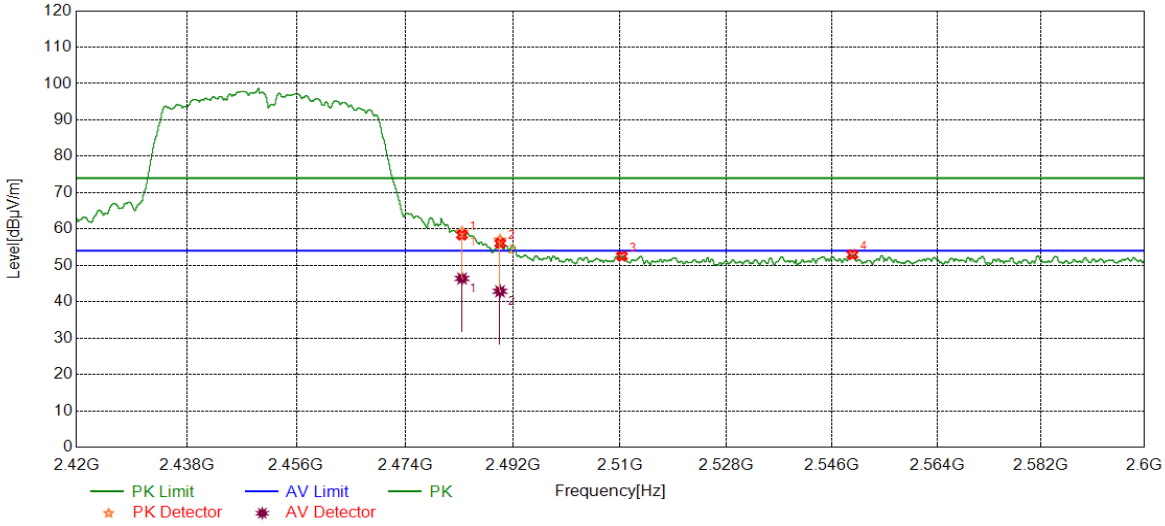
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	45.24	13.88	59.12	74.00	-14.88	peak
		32.51	13.88	46.39	54.00	-7.61	average
2	2489.8407	43.02	13.97	56.99	74.00	-17.01	peak
		28.90	13.97	42.87	54.00	-11.13	average
3	2510.3150	38.30	14.23	52.53	74.00	-21.47	peak
4	2549.4869	38.56	14.40	52.96	74.00	-21.04	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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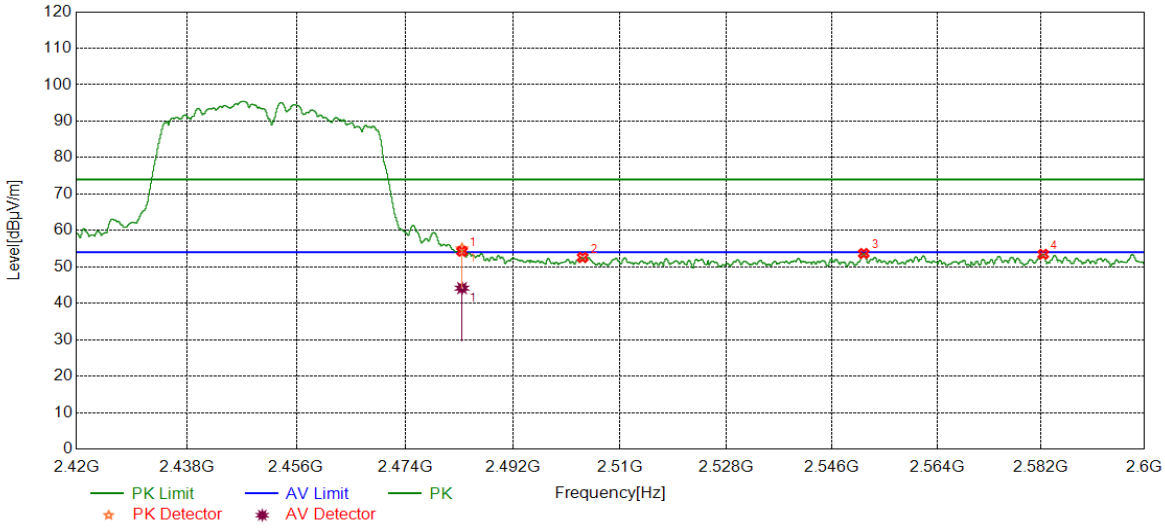
RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	41.12	13.88	55.00	74.00	-19.00	peak
		30.28	13.88	44.16	54.00	-9.84	average
2	2503.7084	38.46	14.13	52.59	74.00	-21.41	peak
3	2551.4131	39.26	14.42	53.68	74.00	-20.32	peak
4	2582.3582	39.00	14.47	53.47	74.00	-20.53	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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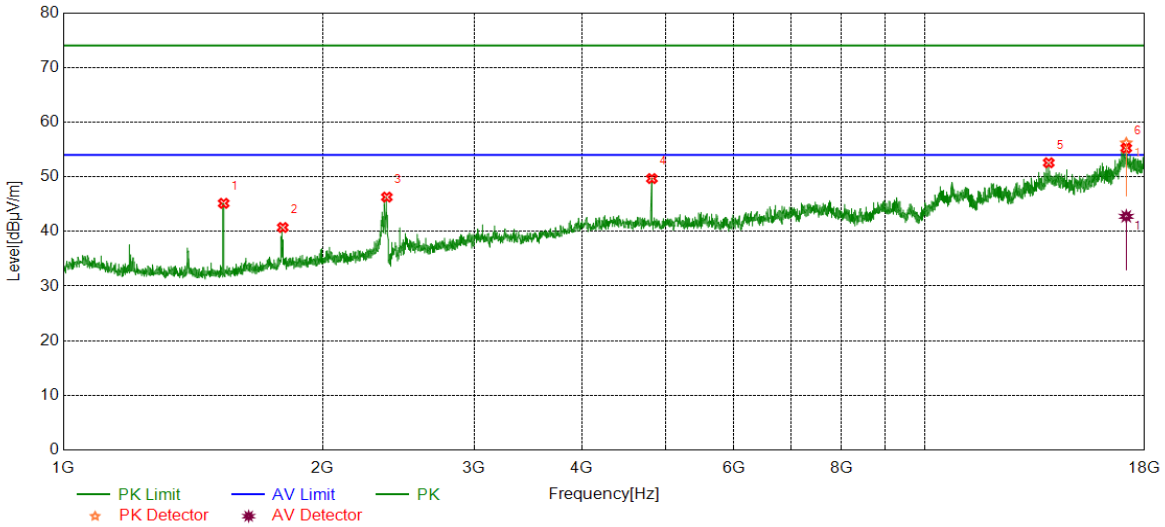
9.2. SPURIOUS EMISSIONS (1~18GHz)

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	1535.5118	50.83	-5.69	45.14	74.00	-28.86	peak
2	1798.2661	44.62	-3.90	40.72	74.00	-33.28	peak
3	2375.1250	47.81	-1.53	46.28	74.00	-27.72	peak
4	4822.8038	44.73	4.94	49.67	74.00	-24.33	peak
5	13931.8220	36.52	16.04	52.56	74.00	-21.44	peak
6	17137.3488	36.88	19.30	56.18	74.00	-17.82	peak
		23.45	19.30	42.75	54.00	-11.25	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit

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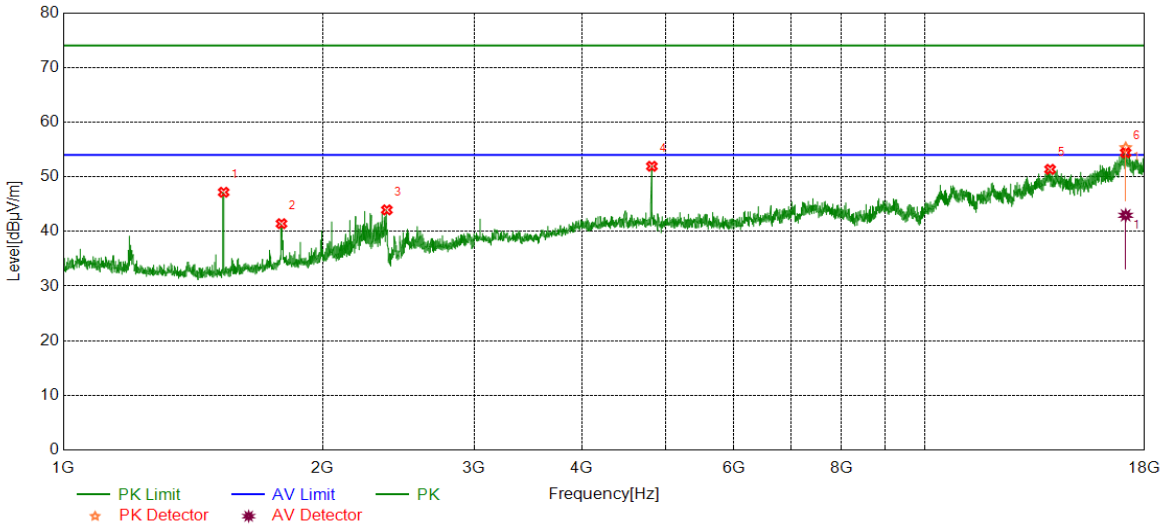
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	52.86	-5.69	47.17	74.00	-26.83	peak
2	1792.2641	45.38	-3.96	41.42	74.00	-32.58	peak
3	2375.1250	45.47	-1.53	43.94	74.00	-30.06	peak
4	4822.8038	46.98	4.94	51.92	74.00	-22.08	peak
5	13981.8303	34.88	16.48	51.36	74.00	-22.64	peak
6	17109.8205	37.30	19.54	56.84	74.00	-17.16	peak
		23.41	19.54	42.95	54.00	-11.05	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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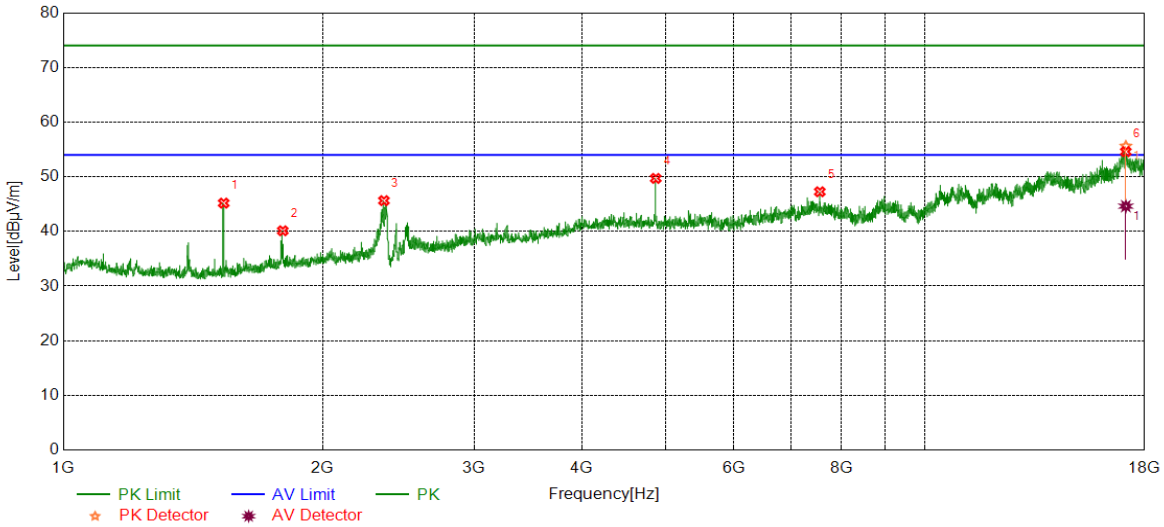
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	50.87	-5.69	45.18	74.00	-28.82	peak
2	1798.2661	44.02	-3.90	40.12	74.00	-33.88	peak
3	2356.4522	47.30	-1.67	45.63	74.00	-28.37	peak
4	4872.8121	44.49	5.21	49.70	74.00	-24.30	peak
5	7555.7593	38.16	9.10	47.26	74.00	-26.74	peak
6	17117.3529	36.45	19.15	55.60	74.00	-18.40	peak
		25.47	19.15	44.62	54.00	-9.38	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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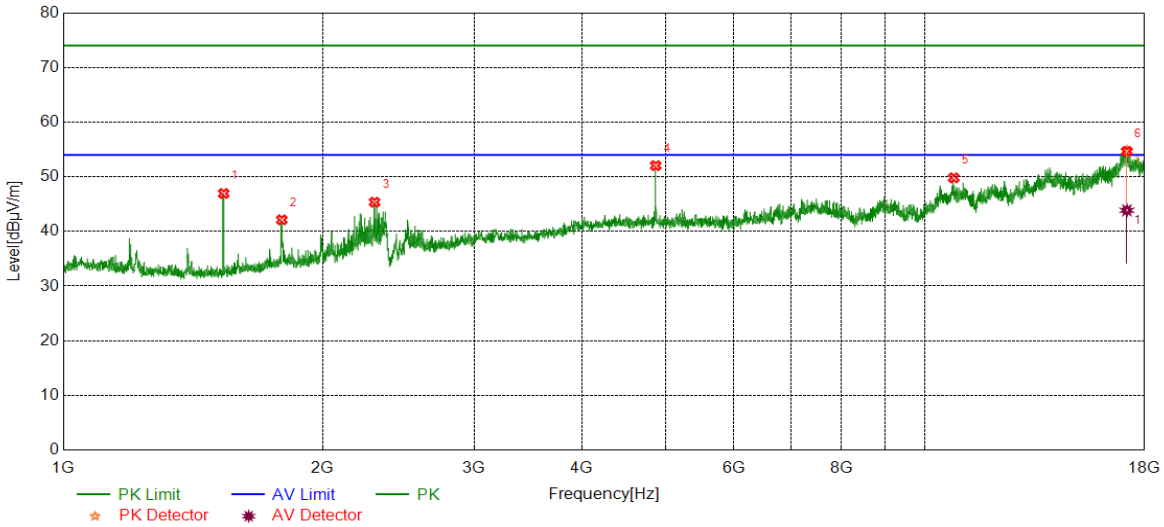
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	52.64	-5.69	46.95	74.00	-27.05	peak
2	1793.5979	46.07	-3.95	42.12	74.00	-31.88	peak
3	2298.4328	47.27	-1.92	45.35	74.00	-28.65	peak
4	4872.8121	46.83	5.21	52.04	74.00	-21.96	peak
5	10806.3011	36.87	12.93	49.80	74.00	-24.20	peak
6	17164.8608	35.12	19.59	54.71	74.00	-19.29	peak
		24.27	19.59	43.86	54.00	-10.14	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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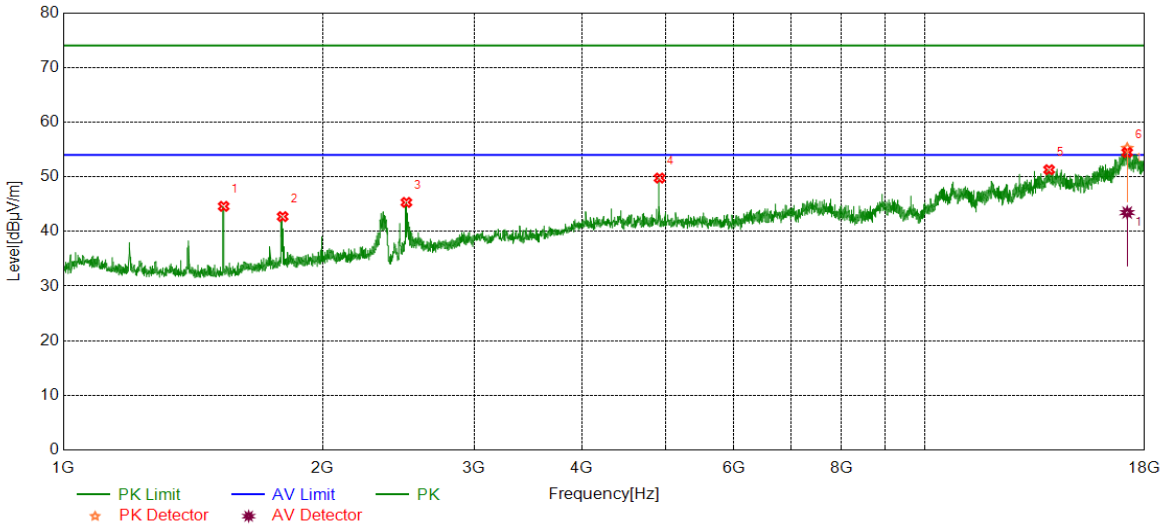
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	50.28	-5.69	44.59	74.00	-29.41	peak
2	1797.5992	46.61	-3.90	42.71	74.00	-31.29	peak
3	2502.5008	45.90	-0.59	45.31	74.00	-28.69	peak
4	4922.8205	44.52	5.24	49.76	74.00	-24.24	peak
5	13944.3241	35.49	15.80	51.29	74.00	-22.71	peak
6	17179.8633	35.63	19.59	55.22	74.00	-18.78	peak
		23.86	19.59	43.45	54.00	-10.55	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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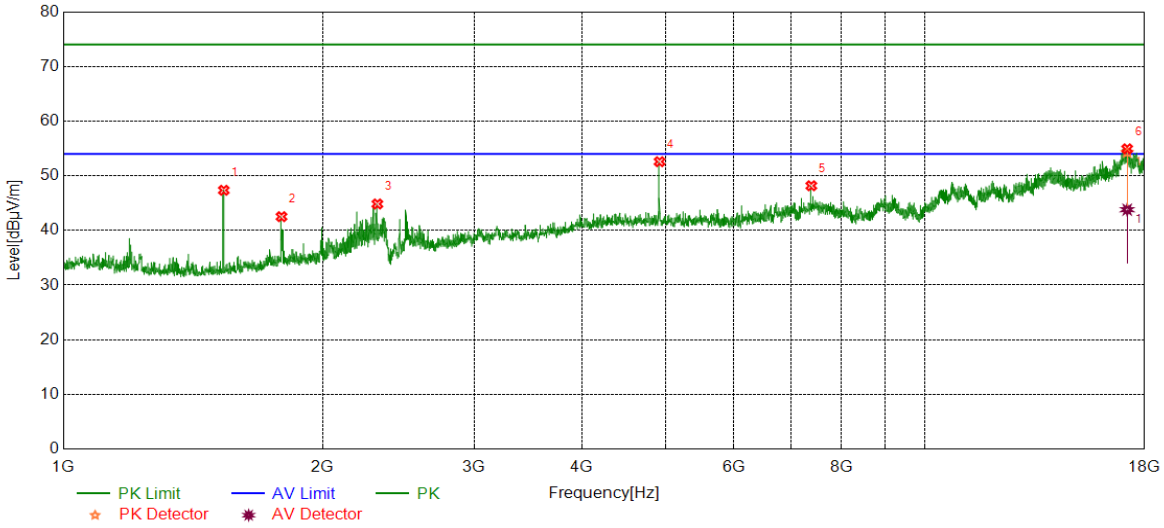
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1536.1787	53.03	-5.68	47.35	74.00	-26.65	peak
2	1792.2641	46.48	-3.96	42.52	74.00	-31.48	peak
3	2315.7719	46.52	-1.68	44.84	74.00	-29.16	peak
4	4922.8205	47.34	5.24	52.58	74.00	-21.42	peak
5	7385.7310	39.06	9.11	48.17	74.00	-25.83	peak
6	17179.8633	34.70	19.59	54.29	74.00	-19.71	peak
		24.21	19.59	43.80	54.00	-10.20	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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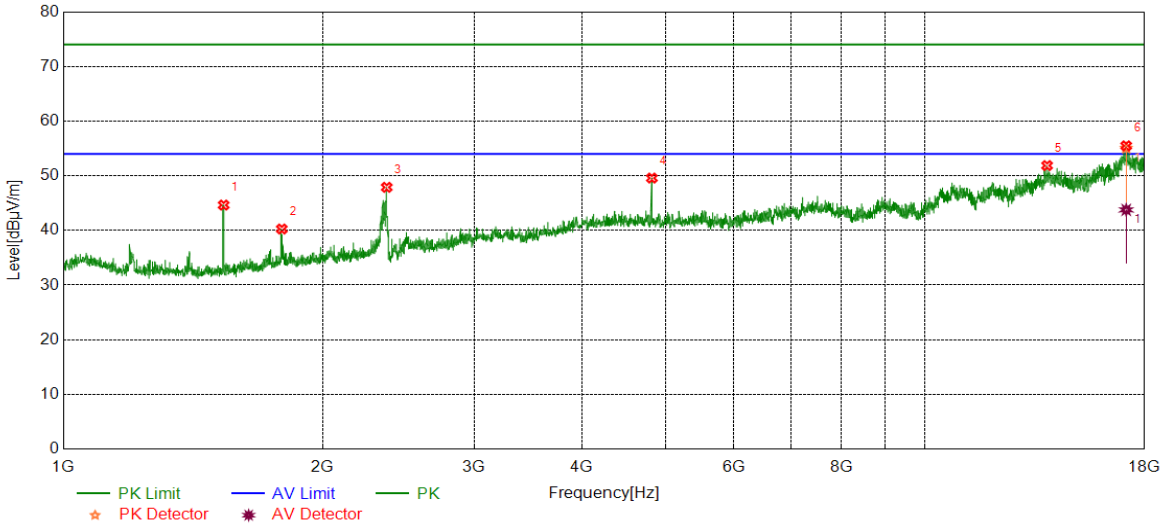
9.2.2. 802.11g MODE

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	1535.5118	50.33	-5.69	44.64	74.00	-29.36	peak
2	1793.5979	44.21	-3.95	40.26	74.00	-33.74	peak
3	2374.4582	49.43	-1.54	47.89	74.00	-26.11	peak
4	4822.8038	44.64	4.94	49.58	74.00	-24.42	peak
5	13869.3116	35.83	16.04	51.87	74.00	-22.13	peak
6	17134.8558	35.76	19.30	55.06	74.00	-18.94	peak
		24.46	19.30	43.76	54.00	-10.24	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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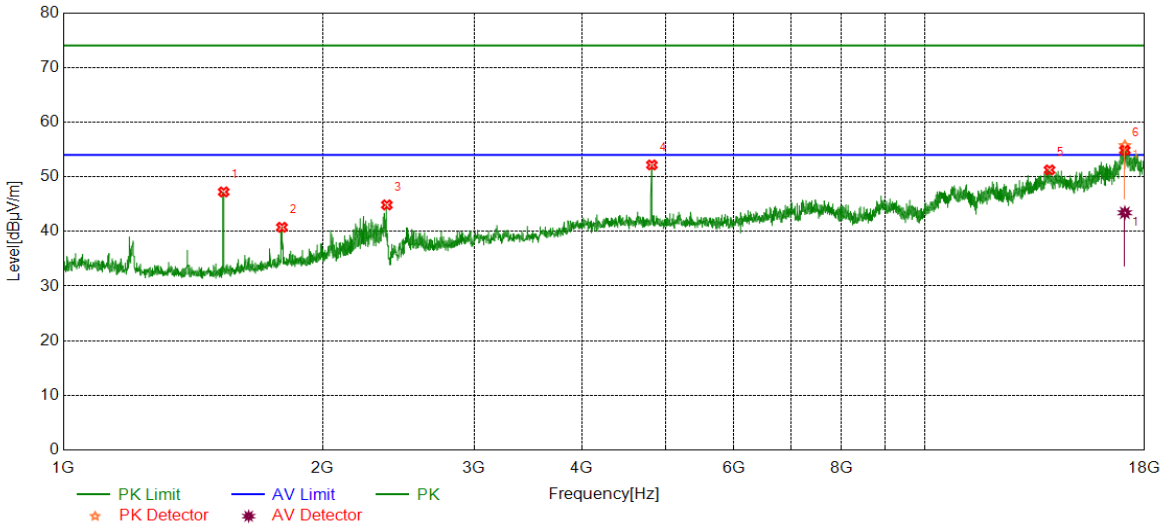
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	52.92	-5.69	47.23	74.00	-26.77	peak
2	1794.2648	44.70	-3.94	40.76	74.00	-33.24	peak
3	2375.1250	46.38	-1.53	44.85	74.00	-29.15	peak
4	4822.8038	47.22	4.94	52.16	74.00	-21.84	peak
5	13959.3266	35.32	15.93	51.25	74.00	-22.75	peak
6	17072.3183	35.42	20.28	55.70	74.00	-18.30	peak
		23.13	20.28	43.41	54.00	-10.59	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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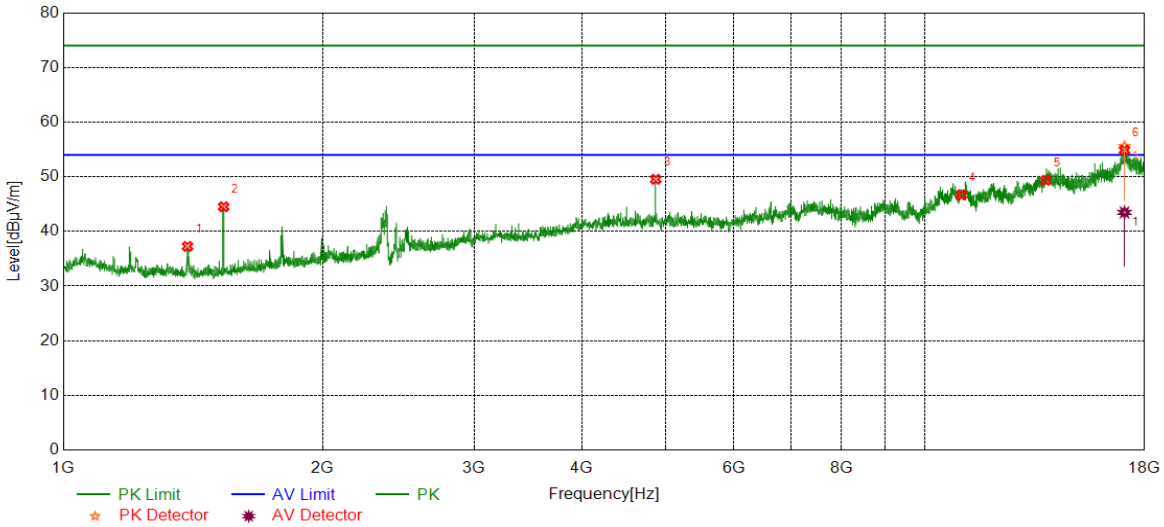
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1394.1314	42.93	-5.67	37.26	74.00	-36.74	peak
2	1535.5118	50.20	-5.69	44.51	74.00	-29.49	peak
3	4872.8121	44.33	5.21	49.54	74.00	-24.46	peak
4	11028.8381	33.67	13.03	46.70	74.00	-27.30	peak
5	13826.8045	33.72	15.63	49.35	74.00	-24.65	peak
6	17054.7926	35.06	20.49	55.55	74.00	-18.45	peak
		22.98	20.49	43.47	54.00	-10.53	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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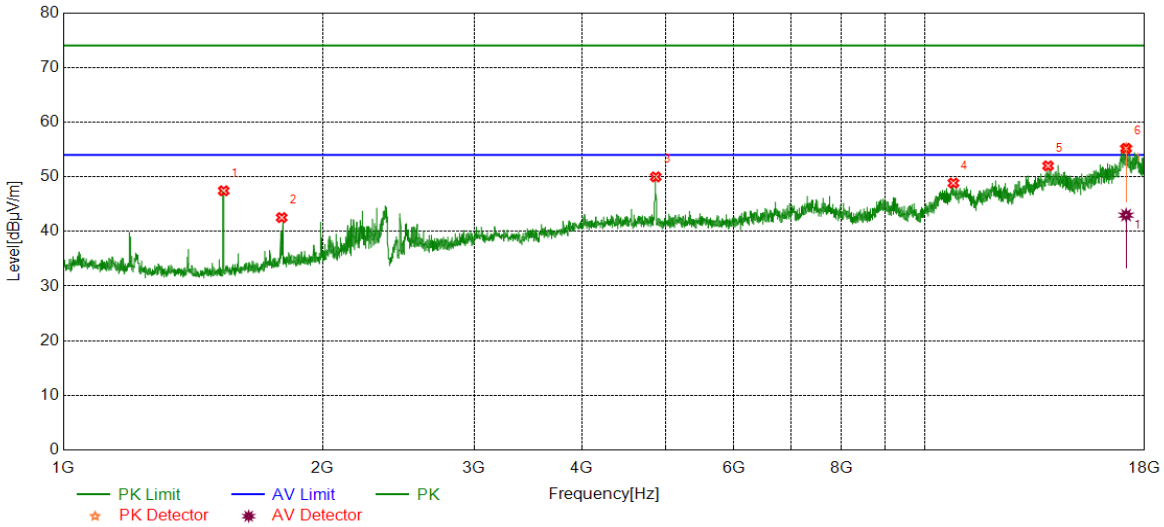
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	53.13	-5.69	47.44	74.00	-26.56	peak
2	1792.9310	46.48	-3.95	42.53	74.00	-31.47	peak
3	4872.8121	44.77	5.21	49.98	74.00	-24.02	peak
4	10796.2994	35.98	12.87	48.85	74.00	-25.15	peak
5	13906.8178	36.22	15.78	52.00	74.00	-22.00	peak
6	17129.9000	37.37	19.29	56.66	74.00	-17.34	peak
		23.68	19.29	42.97	54.00	-11.03	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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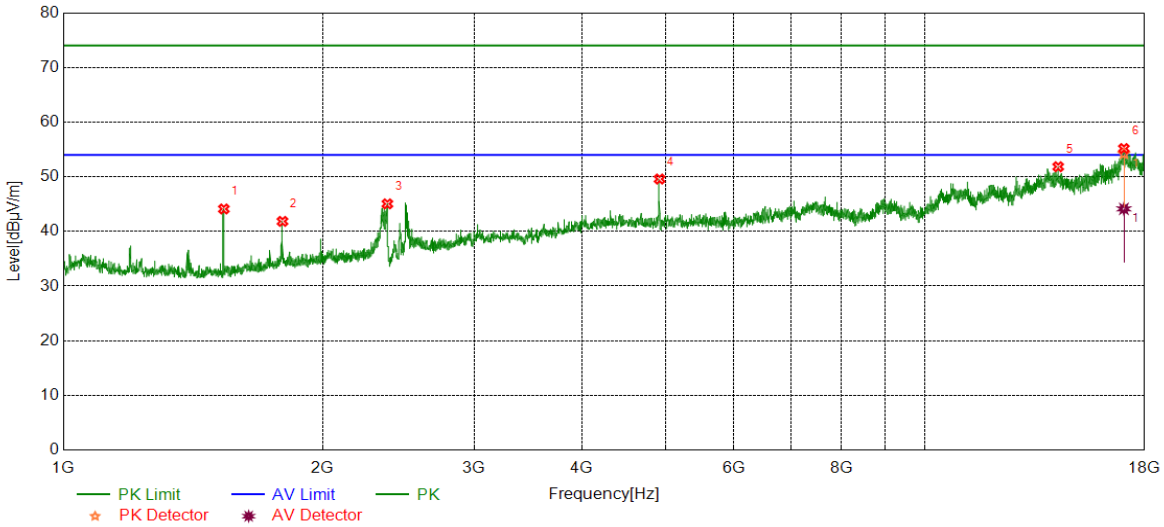
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1536.1787	49.79	-5.68	44.11	74.00	-29.89	peak
2	1796.9323	45.75	-3.91	41.84	74.00	-32.16	peak
3	2378.4595	46.56	-1.51	45.05	74.00	-28.95	peak
4	4922.8205	44.35	5.24	49.59	74.00	-24.41	peak
5	14286.8811	36.17	15.67	51.84	74.00	-22.16	peak
6	17029.8383	33.97	20.22	54.19	74.00	-19.81	peak
		23.91	20.22	44.13	54.00	-9.87	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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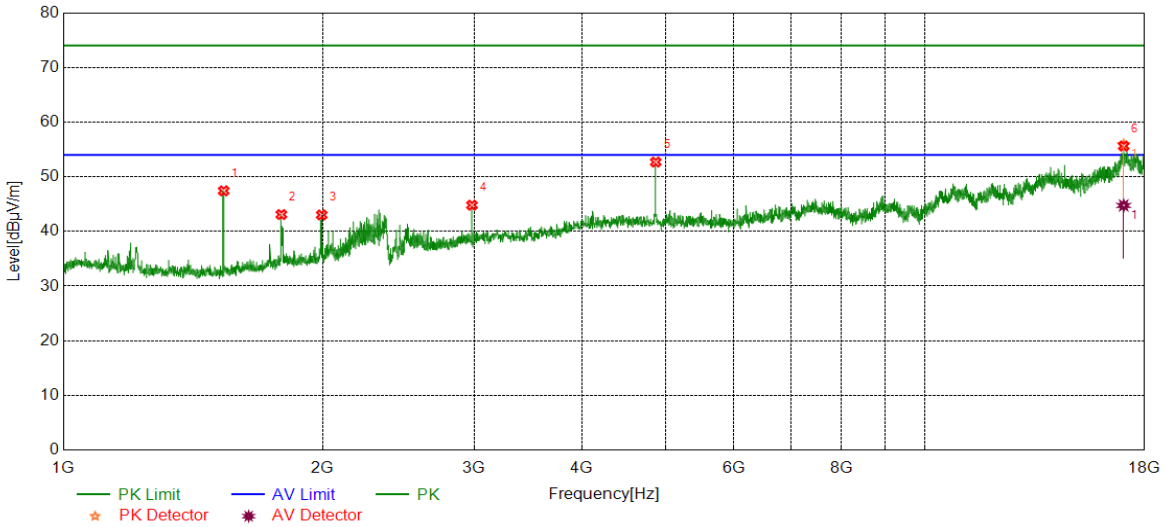
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	53.12	-5.69	47.43	74.00	-26.57	peak
2	1791.5972	47.06	-3.97	43.09	74.00	-30.91	peak
3	1995.6652	46.08	-3.06	43.02	74.00	-30.98	peak
4	2981.9940	44.13	0.67	44.80	74.00	-29.20	peak
5	4872.8121	47.48	5.21	52.69	74.00	-21.31	peak
6	17019.8366	35.72	20.15	55.87	74.00	-18.13	peak
		24.60	20.15	44.75	54.00	-9.25	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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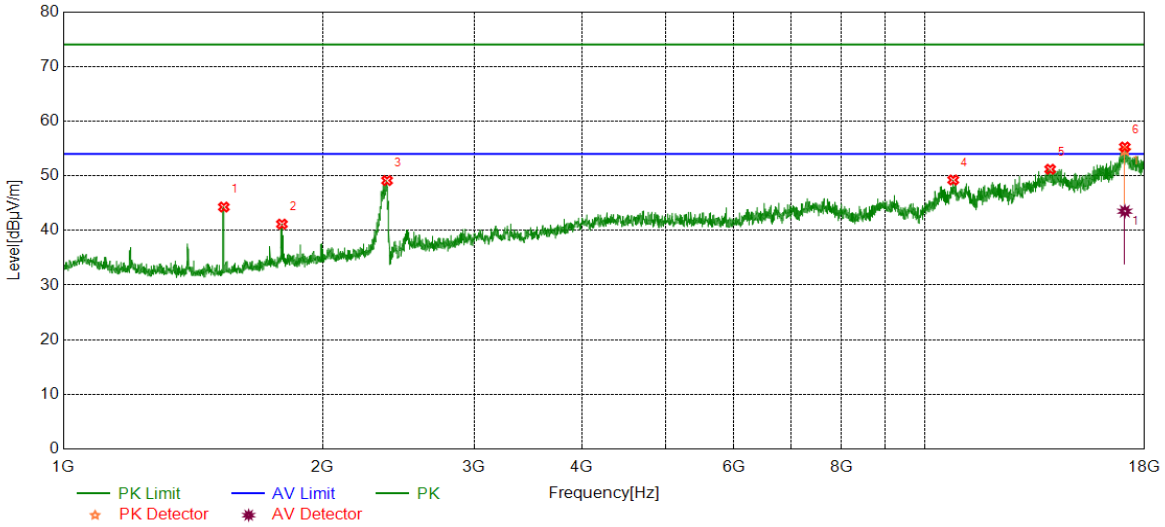
9.2.3. 802.11n HT20 MODE

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	1536.1787	49.96	-5.68	44.28	74.00	-29.72	peak
2	1794.2648	45.10	-3.94	41.16	74.00	-32.84	peak
3	2376.4588	50.65	-1.52	49.13	74.00	-24.87	peak
4	10791.2986	36.62	12.61	49.23	74.00	-24.77	peak
5	13984.3307	34.82	16.38	51.20	74.00	-22.80	peak
6	17072.3454	34.30	20.28	54.58	74.00	-19.42	peak
		23.23	20.28	43.51	54.00	-10.49	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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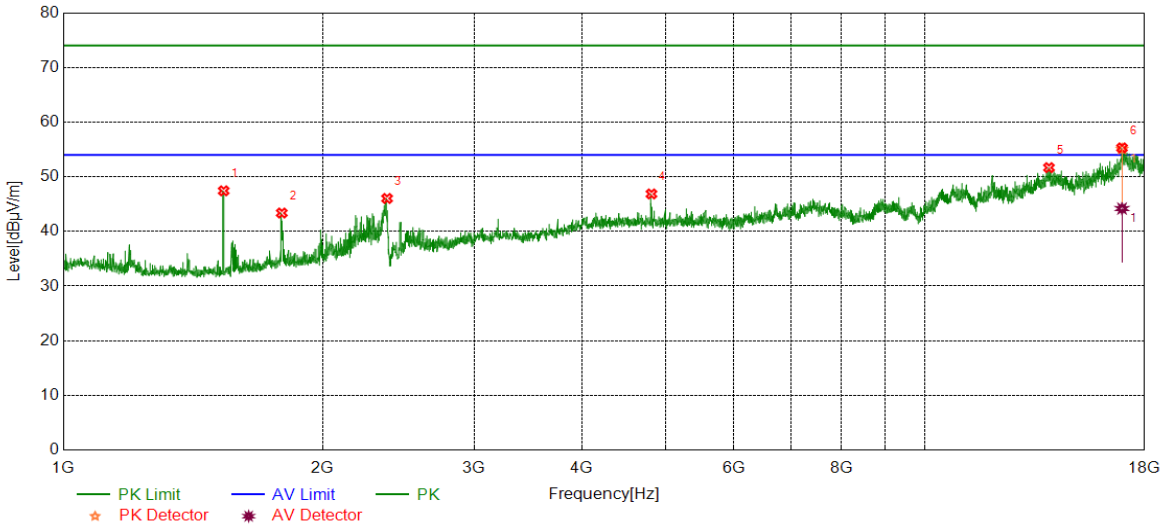
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	53.12	-5.69	47.43	74.00	-26.57	peak
2	1793.5979	47.32	-3.95	43.37	74.00	-30.63	peak
3	2376.4588	47.55	-1.52	46.03	74.00	-27.97	peak
4	4817.8030	41.90	4.96	46.86	74.00	-27.14	peak
5	13939.3232	35.64	16.03	51.67	74.00	-22.33	peak
6	16944.8241	35.10	19.97	55.07	74.00	-18.93	peak
		24.21	19.97	44.18	54.00	-9.82	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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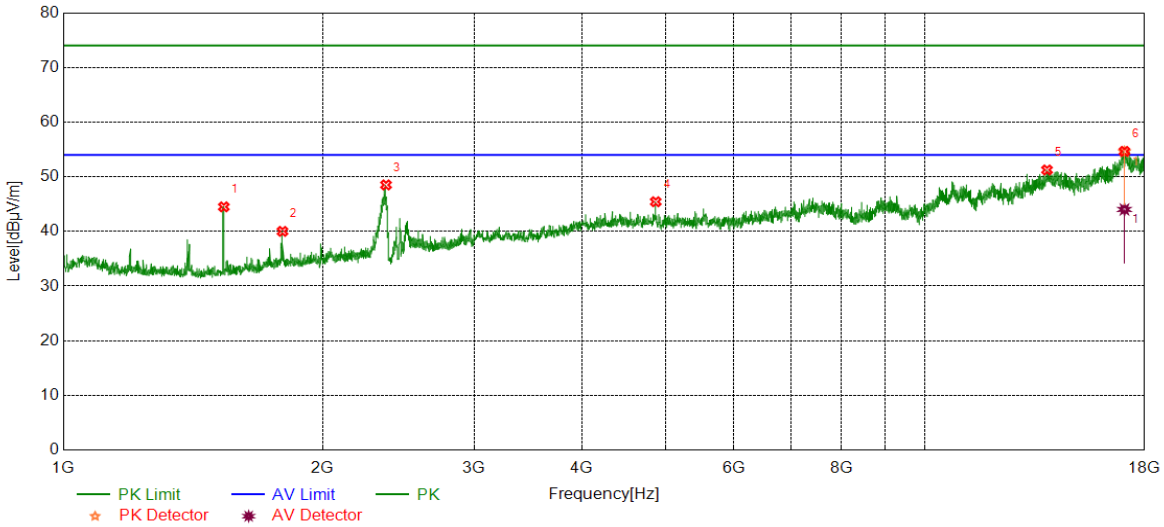
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1536.1787	50.18	-5.68	44.50	74.00	-29.50	peak
2	1796.9323	43.92	-3.91	40.01	74.00	-33.99	peak
3	2369.7899	50.08	-1.57	48.51	74.00	-25.49	peak
4	4872.8121	40.22	5.21	45.43	74.00	-28.57	peak
5	13866.8111	35.31	15.94	51.25	74.00	-22.75	peak
6	17054.8425	34.07	20.49	54.56	74.00	-19.44	peak
		23.53	20.49	44.02	54.00	-9.98	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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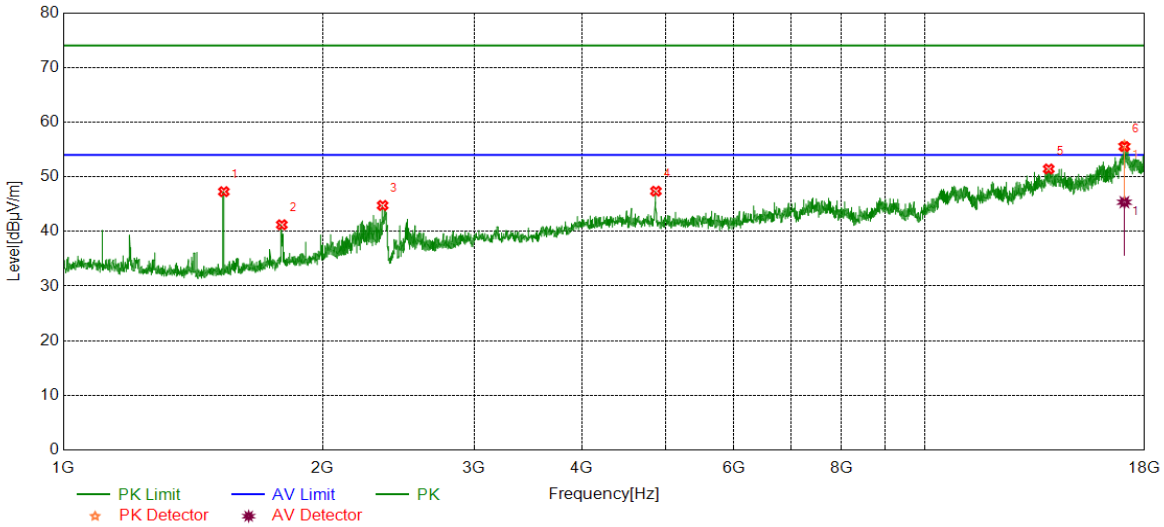
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1536.1787	52.96	-5.68	47.28	74.00	-26.72	peak
2	1793.5979	45.17	-3.95	41.22	74.00	-32.78	peak
3	2348.4495	46.48	-1.73	44.75	74.00	-29.25	peak
4	4875.3126	42.18	5.19	47.37	74.00	-26.63	peak
5	13929.3216	35.38	16.05	51.43	74.00	-22.57	peak
6	17052.3421	35.87	20.48	56.35	74.00	-17.65	peak
		24.87	20.48	45.35	54.00	-8.65	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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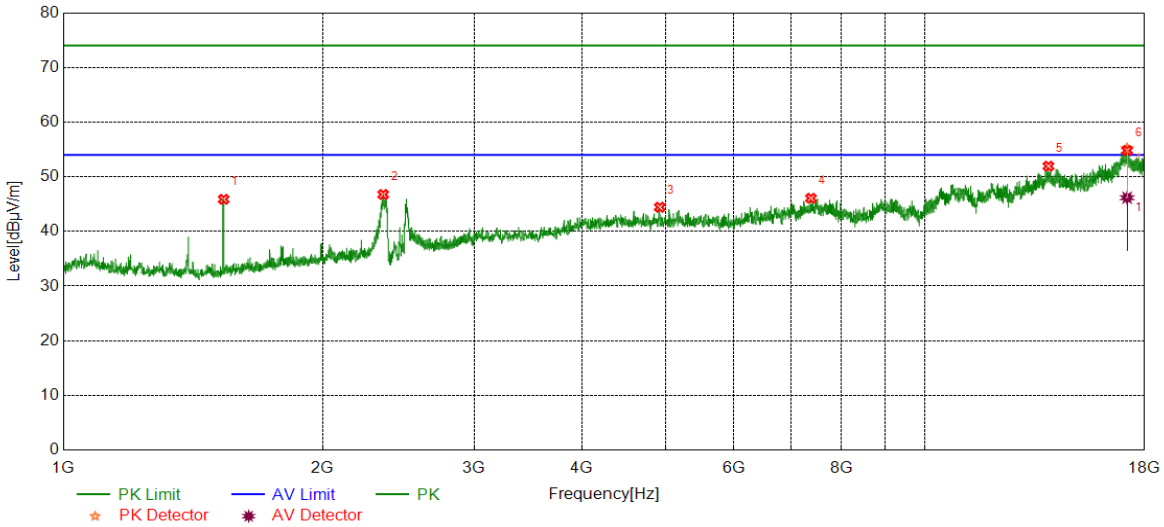
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	51.57	-5.69	45.88	74.00	-28.12	peak
2	2351.7839	48.46	-1.70	46.76	74.00	-27.24	peak
3	4925.3209	39.24	5.19	44.43	74.00	-29.57	peak
4	7378.2297	36.86	9.21	46.07	74.00	-27.93	peak
5	13919.3199	35.89	16.05	51.94	74.00	-22.06	peak
6	17177.3629	35.59	19.55	55.14	74.00	-18.86	peak
		26.62	19.55	46.17	54.00	-7.83	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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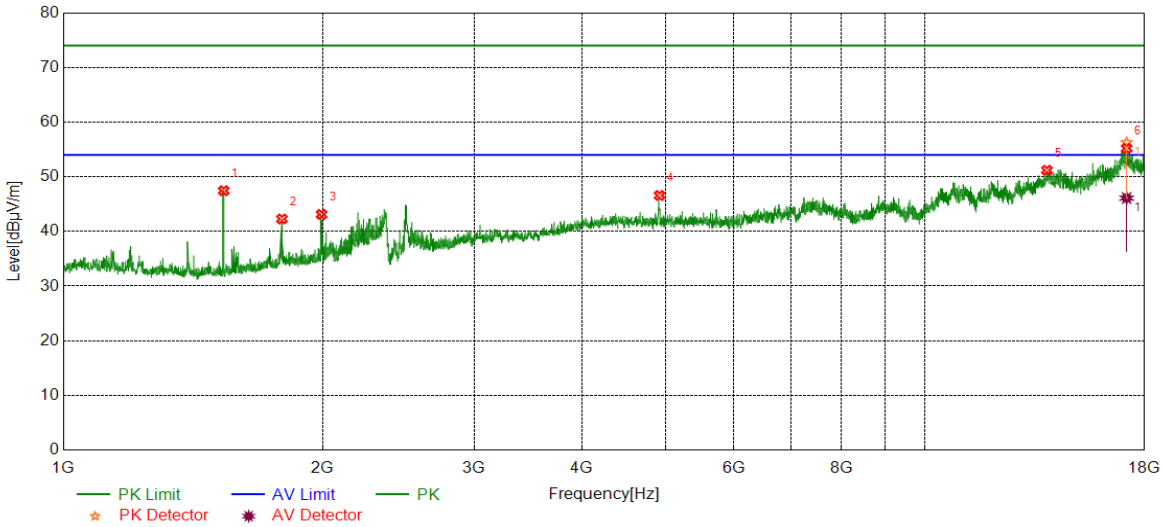
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	53.14	-5.69	47.45	74.00	-26.55	peak
2	1794.2648	46.22	-3.94	42.28	74.00	-31.72	peak
3	1994.9983	46.17	-3.06	43.11	74.00	-30.89	peak
4	4922.8205	41.34	5.24	46.58	74.00	-27.42	peak
5	13861.8103	35.44	15.75	51.19	74.00	-22.81	peak
6	17154.8591	36.52	19.74	56.26	74.00	-17.74	peak
		26.37	19.74	46.11	54.00	-7.89	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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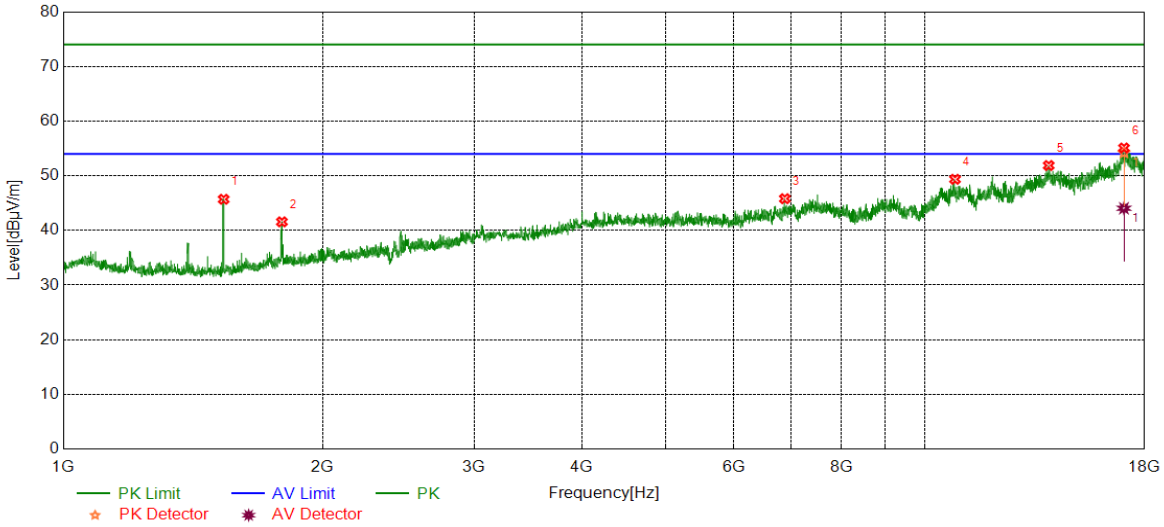
802.11n HT40 MODE

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	1535.5118	51.39	-5.69	45.70	74.00	-28.30	peak
2	1794.2648	45.51	-3.94	41.57	74.00	-32.43	peak
3	6880.6468	37.35	8.46	45.81	74.00	-28.19	peak
4	10843.8073	36.56	12.80	49.36	74.00	-24.64	peak
5	13929.3216	35.83	16.05	51.88	74.00	-22.12	peak
6	17032.3387	34.19	20.00	54.19	74.00	-19.81	peak
		24.05	20.00	44.05	54.00	-9.95	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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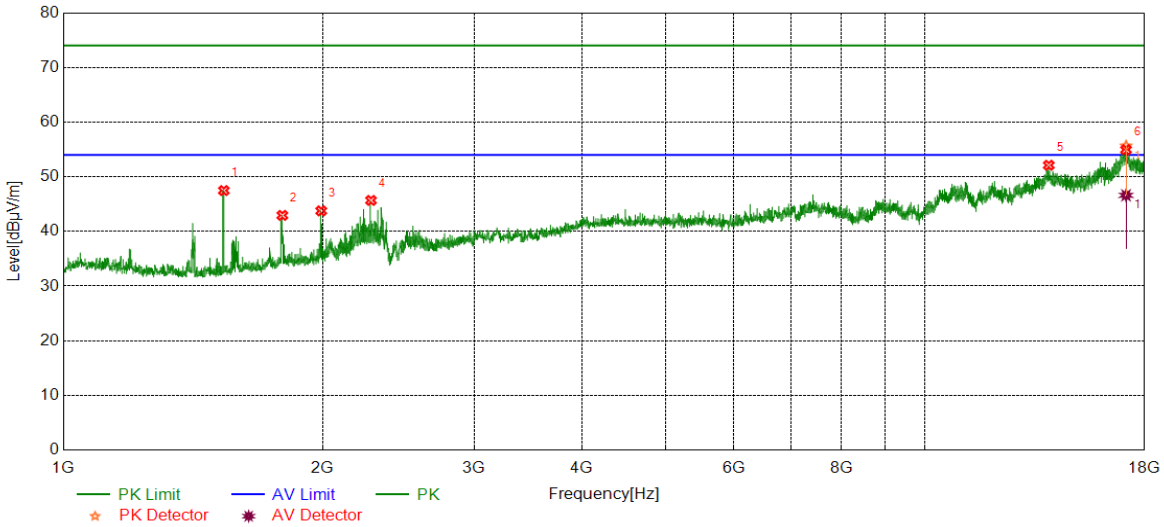
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1536.1787	53.16	-5.68	47.48	74.00	-26.52	peak
2	1796.2654	46.86	-3.92	42.94	74.00	-31.06	peak
3	1992.9977	46.84	-3.08	43.76	74.00	-30.24	peak
4	2276.4255	47.80	-2.12	45.68	74.00	-28.32	peak
5	13931.8220	36.07	16.04	52.11	74.00	-21.89	peak
6	17127.3546	36.43	19.21	55.64	74.00	-18.36	peak
		27.40	19.21	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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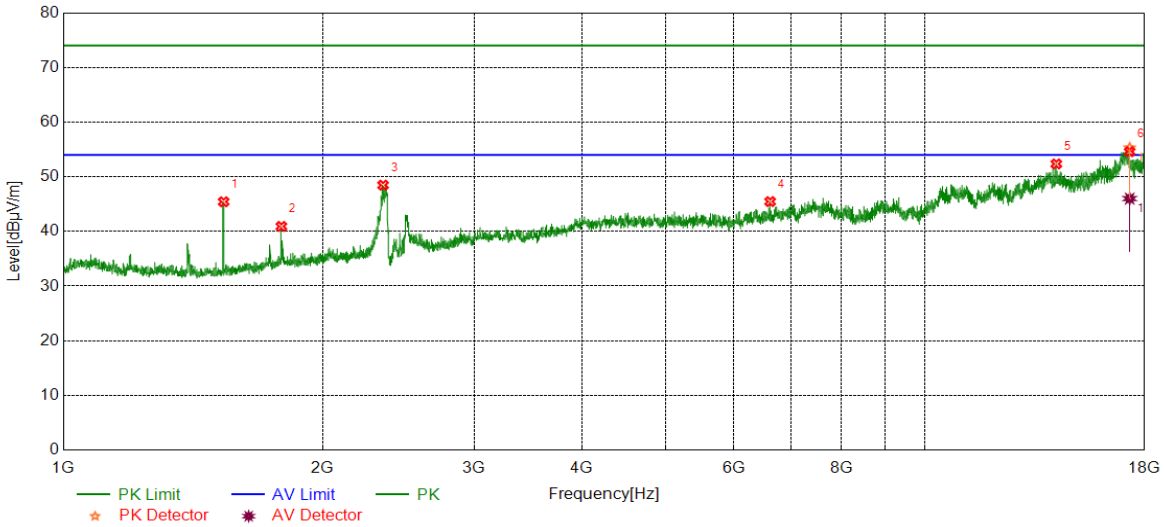
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	51.12	-5.69	45.43	74.00	-28.57	peak
2	1791.5972	44.89	-3.97	40.92	74.00	-33.08	peak
3	2351.1170	50.18	-1.71	48.47	74.00	-25.53	peak
4	6615.6026	37.31	8.15	45.46	74.00	-28.54	peak
5	14216.8695	36.42	15.93	52.35	74.00	-21.65	peak
6	17294.8825	36.51	18.78	55.29	74.00	-18.71	peak
		27.23	18.78	46.01	54.00	-7.99	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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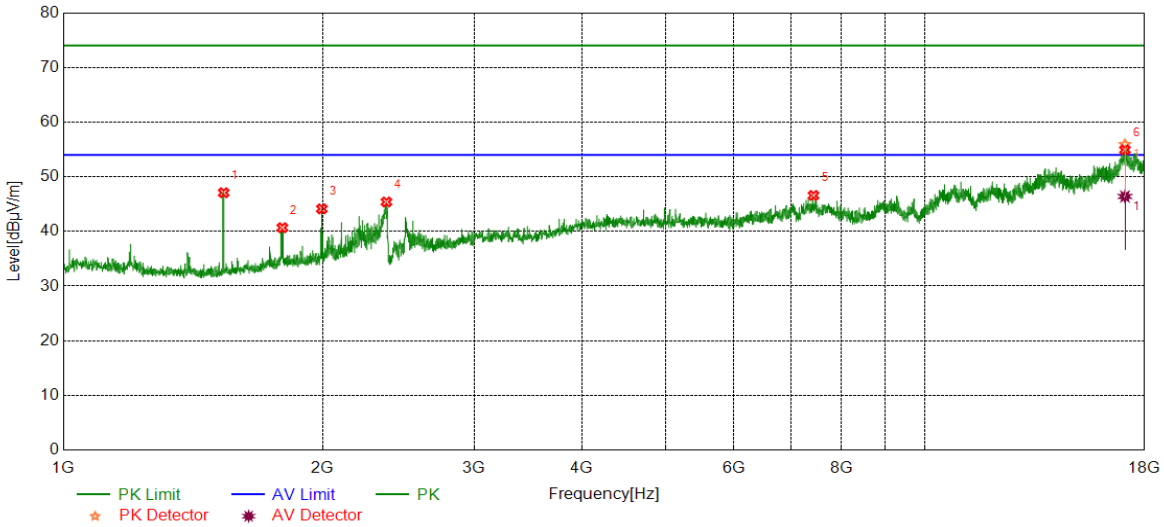
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	52.77	-5.69	47.08	74.00	-26.92	peak
2	1796.2654	44.60	-3.92	40.68	74.00	-33.32	peak
3	1996.3321	47.18	-3.05	44.13	74.00	-29.87	peak
4	2372.4575	46.94	-1.55	45.39	74.00	-28.61	peak
5	7428.2380	37.33	9.25	46.58	74.00	-27.42	peak
6	17077.3462	36.14	19.76	55.90	74.00	-18.10	peak
		26.64	19.76	46.40	54.00	-7.60	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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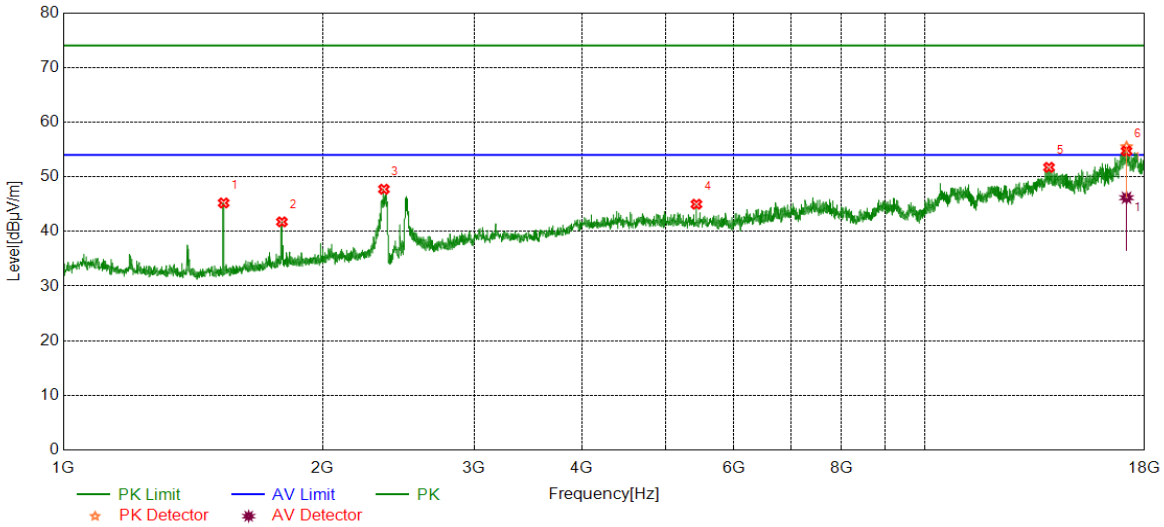
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1535.5118	50.90	-5.69	45.21	74.00	-28.79	peak
2	1794.2648	45.69	-3.94	41.75	74.00	-32.25	peak
3	2356.4522	49.40	-1.67	47.73	74.00	-26.27	peak
4	5432.9055	39.60	5.38	44.98	74.00	-29.02	peak
5	13939.3232	35.69	16.03	51.72	74.00	-22.28	peak
6	17149.8583	35.75	19.73	55.48	74.00	-18.52	peak
		26.44	19.73	46.17	54.00	-7.83	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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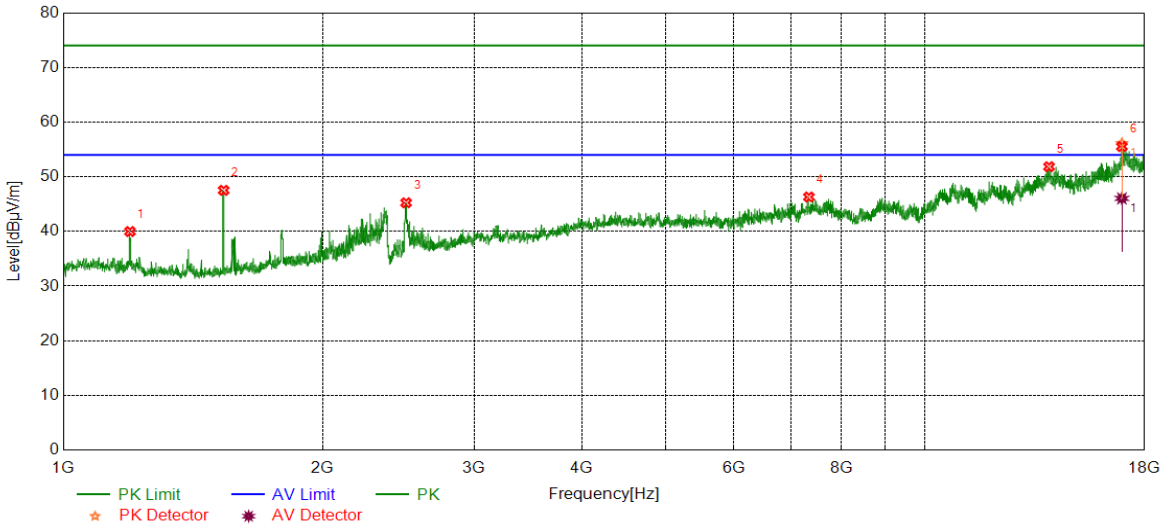
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1195.3985	45.52	-5.54	39.98	74.00	-34.02	peak
2	1535.5118	53.21	-5.69	47.52	74.00	-26.48	peak
3	2500.5002	45.85	-0.61	45.24	74.00	-28.76	peak
4	7338.2230	37.35	8.95	46.30	74.00	-27.70	peak
5	13941.8236	35.92	15.93	51.85	74.00	-22.15	peak
6	16939.8233	36.02	20.07	56.09	74.00	-17.91	peak
		25.97	20.07	46.04	54.00	-7.96	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. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for BPF losses.
5. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Proper operation of the transmitter prior to adding the filter to the measurement chain.
7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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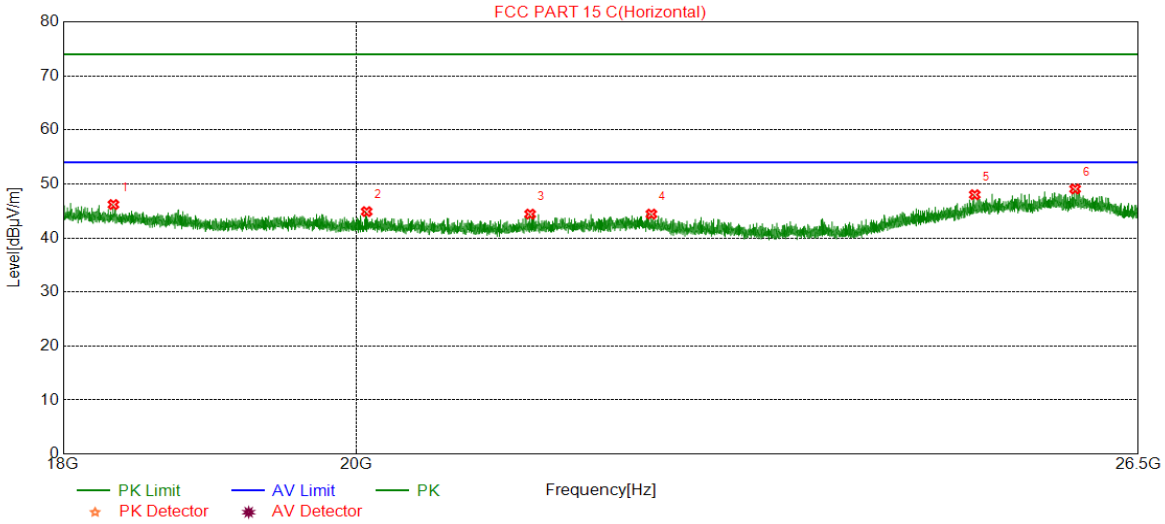
9.3. SPURIOUS EMISSIONS (18~26GHz)

9.3.1. 802.11g 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	18328.1328	45.09	1.09	46.18	74.00	-27.82	peak
2	20076.7577	43.34	1.53	44.87	74.00	-29.13	peak
3	21293.2293	43.02	1.39	44.41	74.00	-29.59	peak
4	22242.7743	42.55	1.87	44.42	74.00	-29.58	peak
5	24987.6988	43.30	4.70	48.00	74.00	-26.00	peak
6	25906.6407	42.82	6.24	49.06	74.00	-24.94	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. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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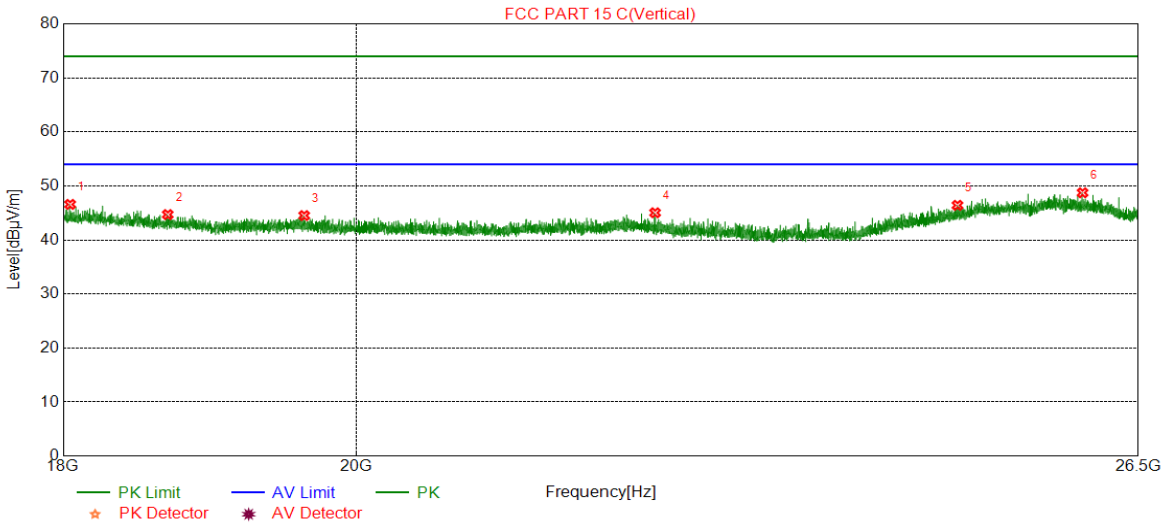
SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	18045.0545	45.39	1.19	46.58	74.00	-27.42	peak
2	18690.2690	43.89	0.81	44.70	74.00	-29.30	peak
3	19630.4630	43.24	1.27	44.51	74.00	-29.49	peak
4	22272.5273	43.20	1.83	45.03	74.00	-28.97	peak
5	24832.9833	42.27	4.14	46.41	74.00	-27.59	peak
6	25976.3476	42.39	6.34	48.73	74.00	-25.27	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. 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.

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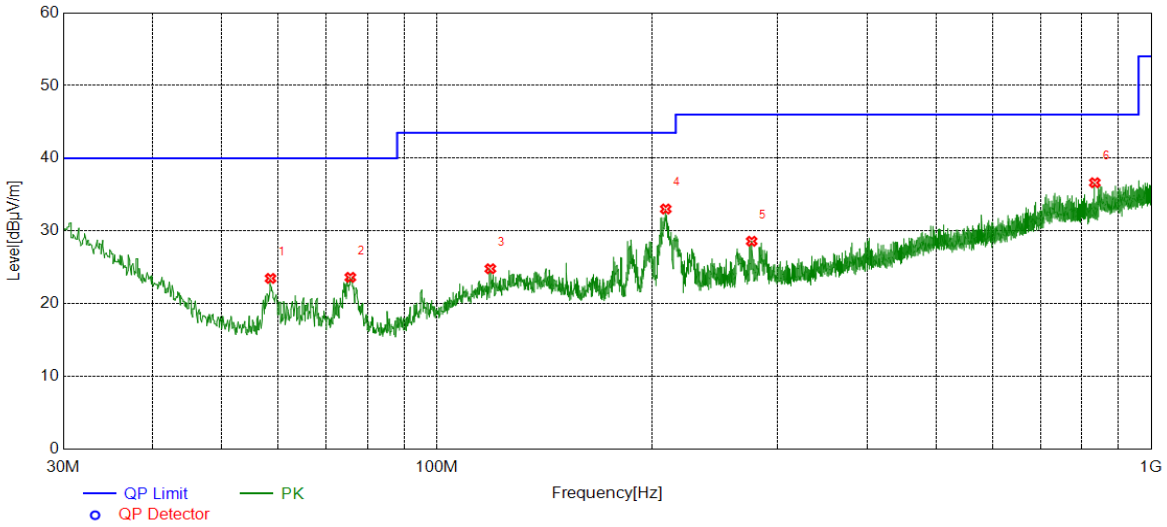
9.4. SPURIOUS EMISSIONS (0.03 ~ 1 GHz)

9.4.1. 802.11g 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	58.5209	9.41	14.07	23.48	40.00	-16.52	QP
2	75.6916	9.13	14.50	23.63	40.00	-16.37	QP
3	118.8609	4.68	20.13	24.81	43.50	-18.69	QP
4	209.1769	14.60	18.42	33.02	43.50	-10.48	QP
5	275.9196	8.42	20.17	28.59	46.00	-17.41	QP
6	833.9194	6.42	30.22	36.64	46.00	-9.36	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.

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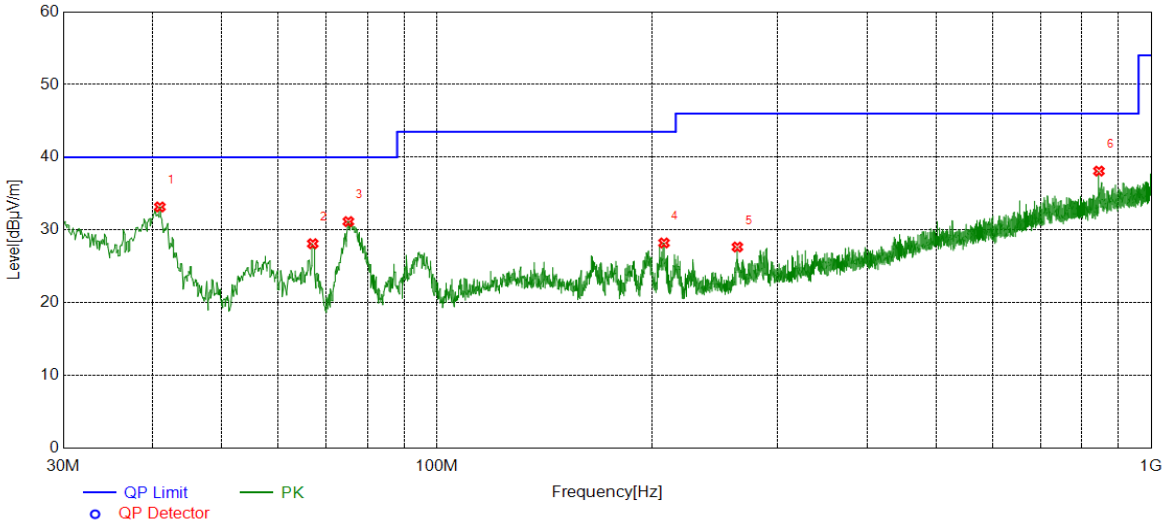
SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	40.9621	13.00	20.17	33.17	40.00	-6.83	QP
2	67.0577	13.59	14.53	28.12	40.00	-11.88	QP
3	75.2065	16.64	14.52	31.16	40.00	-8.84	QP
4	208.0128	9.71	18.51	28.22	43.50	-15.28	QP
5	263.5024	8.35	19.31	27.66	46.00	-18.34	QP
6	844.9785	7.74	30.36	38.10	46.00	-7.90	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 test modes have been tested, only the worst data record in the report.

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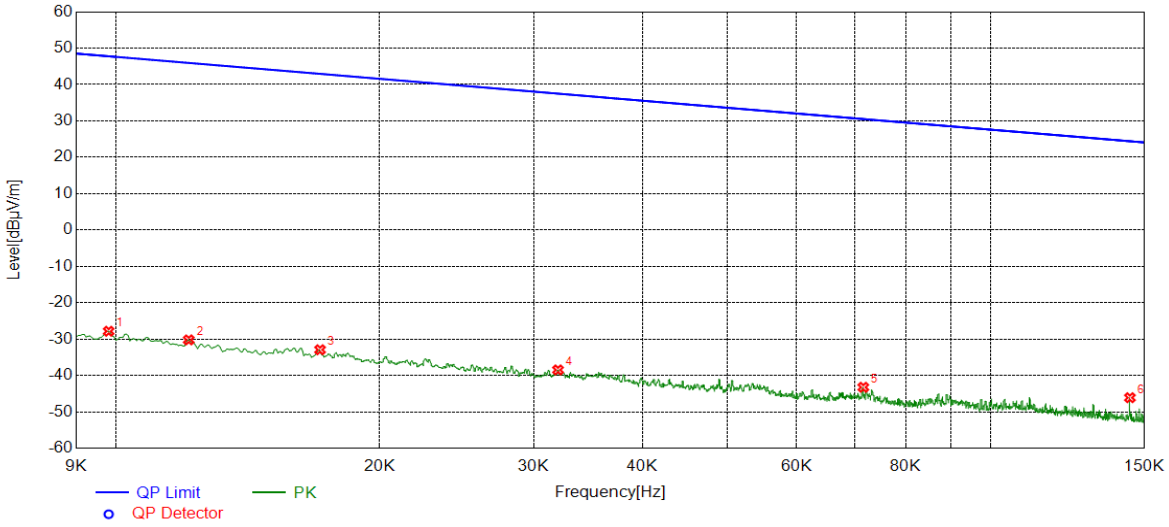
9.5. SPURIOUS EMISSIONS BELOW 30M

9.5.1. 802.11g MODE

SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, Face-on)

0.09~ 150kHz



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0098	33.46	-61.30	-27.84	47.78	-75.62	peak
2	0.0121	30.98	-61.20	-30.22	45.94	-76.16	peak
3	0.0171	28.12	-61.05	-32.93	42.95	-75.88	peak
4	0.0320	22.56	-61.04	-38.48	37.49	-75.97	peak
5	0.0715	18.25	-61.50	-43.25	30.52	-73.77	peak
6	0.1443	15.27	-61.38	-46.11	24.42	-70.53	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.
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report

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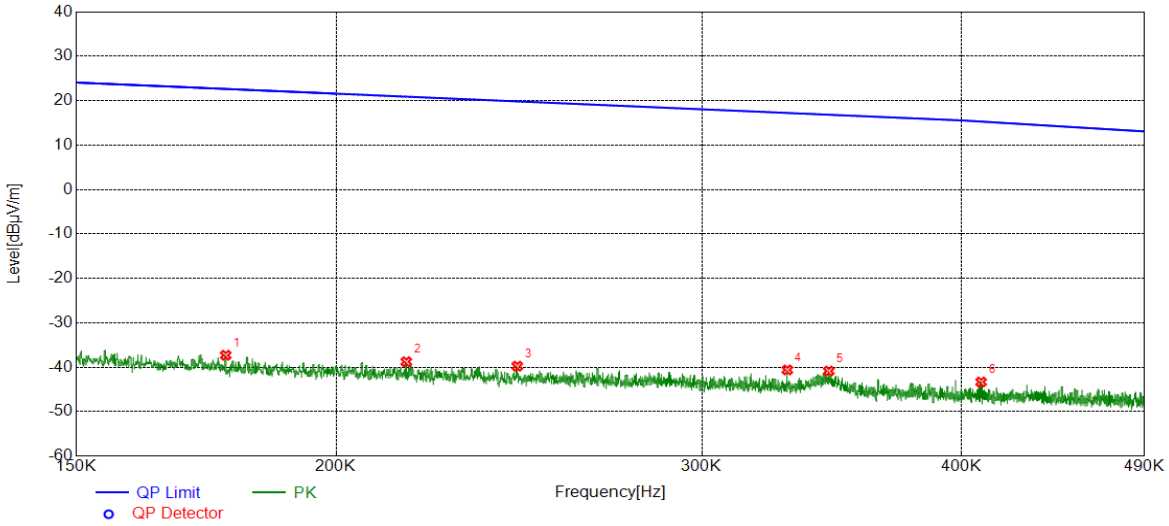
150kHz ~ 490kHz



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1770	24.01	-61.31	-37.30	22.65	-59.95	peak
2	0.2162	22.35	-61.11	-38.76	20.91	-59.67	peak
3	0.2445	21.21	-60.97	-39.76	19.84	-59.60	peak
4	0.3298	20.27	-60.87	-40.60	17.24	-57.84	peak
5	0.3453	19.99	-60.86	-40.87	16.84	-57.71	peak
6	0.4088	17.48	-60.80	-43.32	15.29	-58.61	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.
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report

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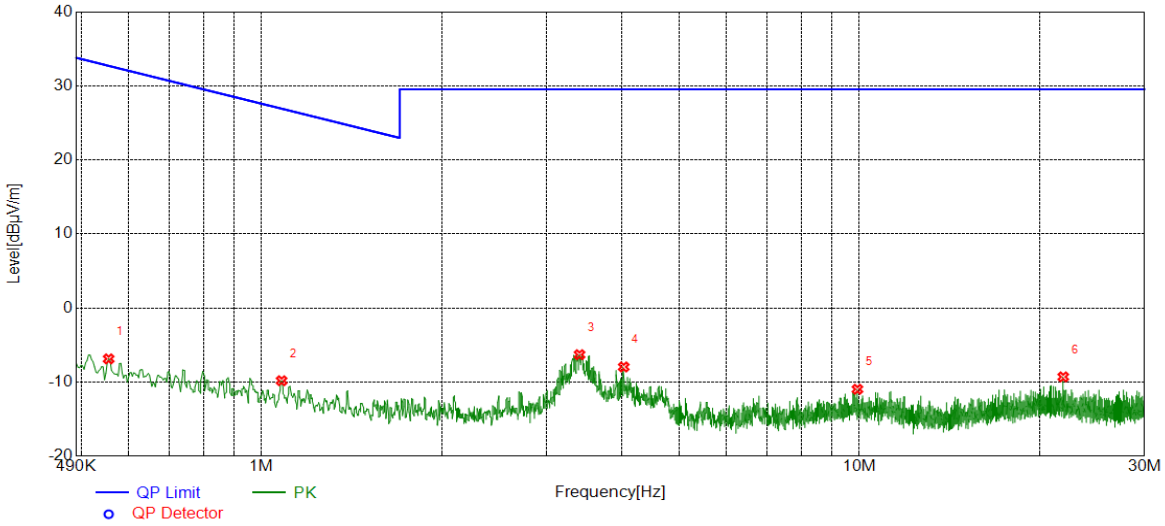
490kHz ~ 30MHz



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.5549	13.87	-20.74	-6.87	32.72	-39.59	peak
2	1.0803	10.66	-20.48	-9.82	26.94	-36.76	peak
3	3.4029	14.12	-20.42	-6.30	29.54	-35.84	peak
4	4.0345	12.21	-20.17	-7.96	29.54	-37.50	peak
5	9.9253	8.03	-19.00	-10.97	29.54	-40.51	peak
6	21.9282	8.42	-17.72	-9.30	29.54	-38.84	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.
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report

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

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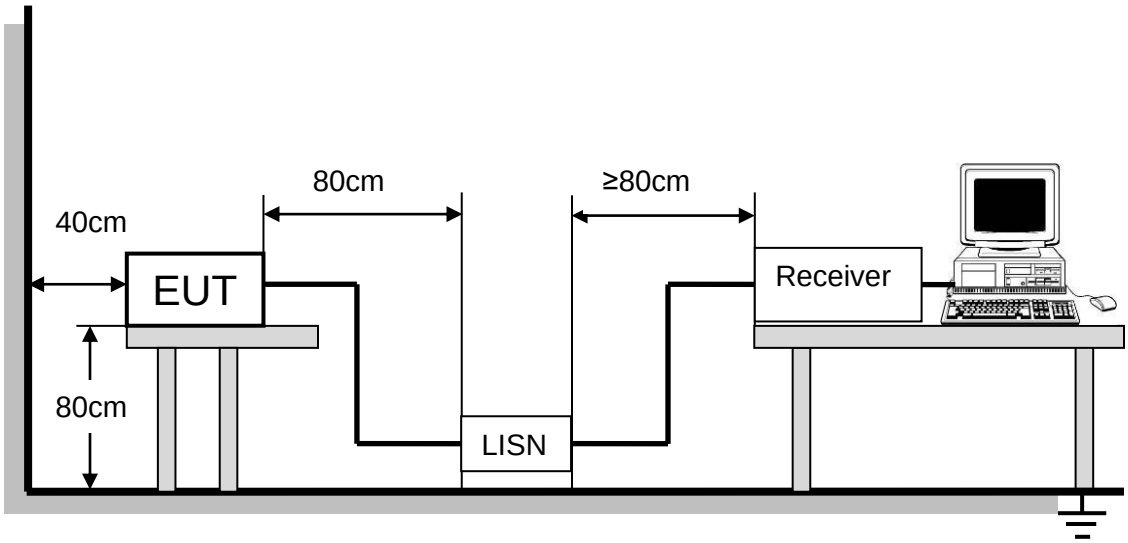
10. AC POWER LINE CONDUCTED EMISSIONS

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 5V

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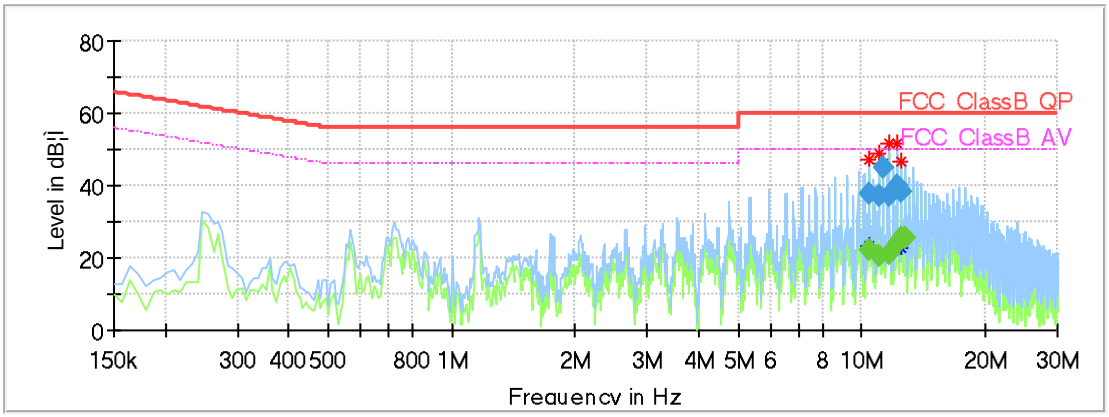
TEST RESULTS

10.1. 802.11g 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)
10.396013	37.98	---	60.00	22.02	1000.0	9.000	N	OFF	10.0
10.410938	---	22.08	50.00	27.92	1000.0	9.000	N	OFF	10.0
11.007938	---	20.49	50.00	29.51	1000.0	9.000	N	OFF	10.0
11.015400	37.28	---	60.00	22.72	1000.0	9.000	N	OFF	10.0
11.298975	45.12	---	60.00	14.88	1000.0	9.000	N	OFF	10.0
11.604938	---	21.03	50.00	28.97	1000.0	9.000	N	OFF	10.0
11.619863	37.25	---	60.00	22.75	1000.0	9.000	N	OFF	10.0
12.209400	---	23.82	50.00	26.18	1000.0	9.000	N	OFF	10.0
12.209400	39.91	---	60.00	20.09	1000.0	9.000	N	OFF	10.0
12.500438	---	25.81	50.00	24.19	1000.0	9.000	N	OFF	10.0
12.500438	38.54	---	60.00	21.46	1000.0	9.000	N	OFF	10.0
12.813863	---	25.77	50.00	24.23	1000.0	9.000	N	OFF	10.0

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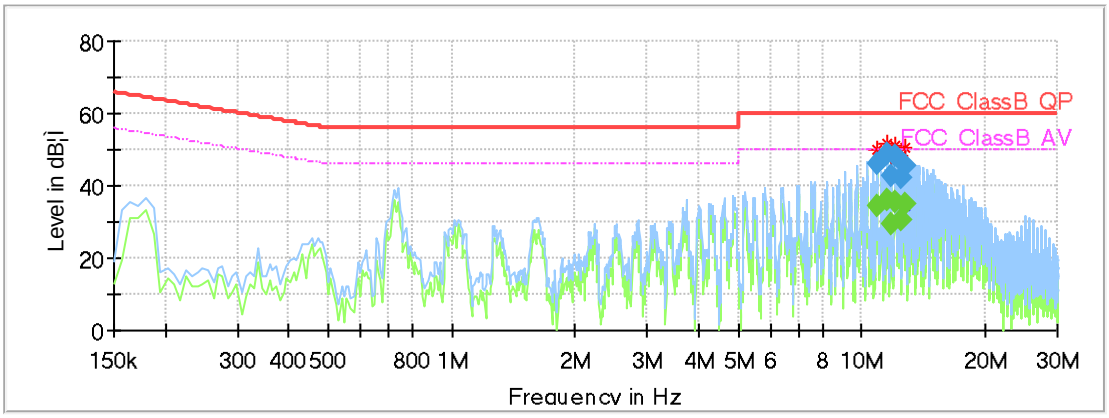
LINE L RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
10.933313	---	34.66	50.00	15.34	1000.0	9.000	L1	OFF	10.0
10.933313	46.32	---	60.00	13.68	1000.0	9.000	L1	OFF	10.0
11.507925	48.78	---	60.00	11.22	1000.0	9.000	L1	OFF	10.0
11.515388	---	36.17	50.00	13.83	1000.0	9.000	L1	OFF	10.0
11.806425	---	29.65	50.00	20.35	1000.0	9.000	L1	OFF	10.0
11.806425	42.94	---	60.00	17.06	1000.0	9.000	L1	OFF	10.0
12.119850	48.17	---	60.00	11.83	1000.0	9.000	L1	OFF	10.0
12.119850	---	35.61	50.00	14.39	1000.0	9.000	L1	OFF	10.0
12.410888	42.47	---	60.00	17.53	1000.0	9.000	L1	OFF	10.0
12.410888	---	30.67	50.00	19.33	1000.0	9.000	L1	OFF	10.0
12.716850	---	34.85	50.00	15.15	1000.0	9.000	L1	OFF	10.0
12.716850	45.67	---	60.00	14.33	1000.0	9.000	L1	OFF	10.0

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

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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

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