

## 7.5. CONDUCTED BANDEGE AND SPURIOUS EMISSIONS

### LIMITS

FCC Part15 (15.247) Subpart C RSS-247 ISSUE 2		
Section	Test Item	Limit
FCC §15.247 (d) RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

### TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

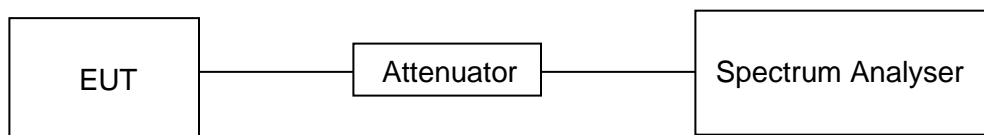
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

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

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

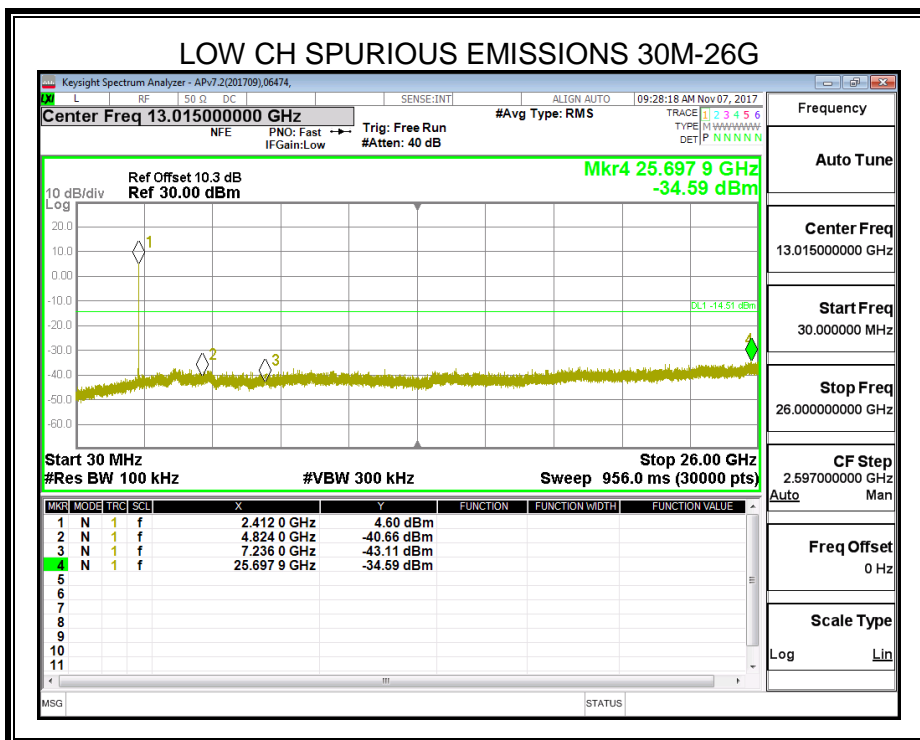
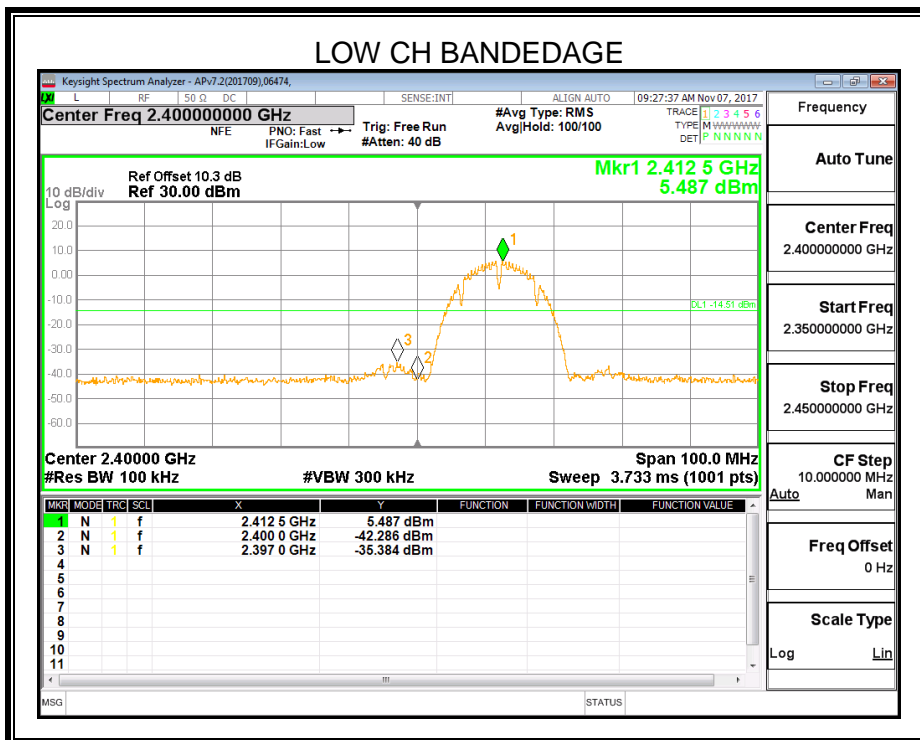
Use the peak marker function to determine the maximum amplitude level.

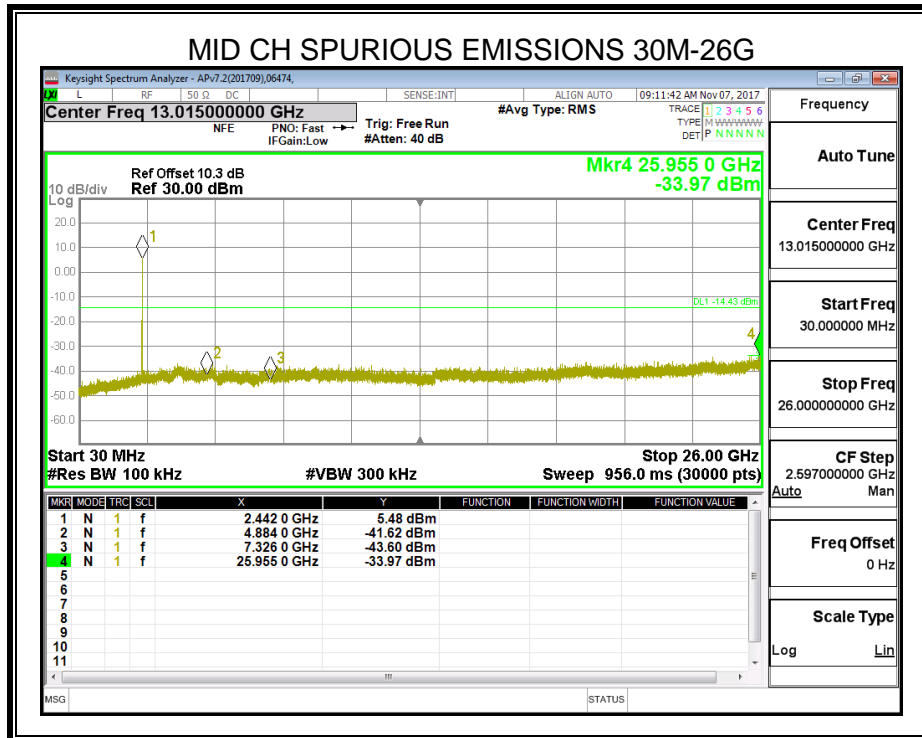
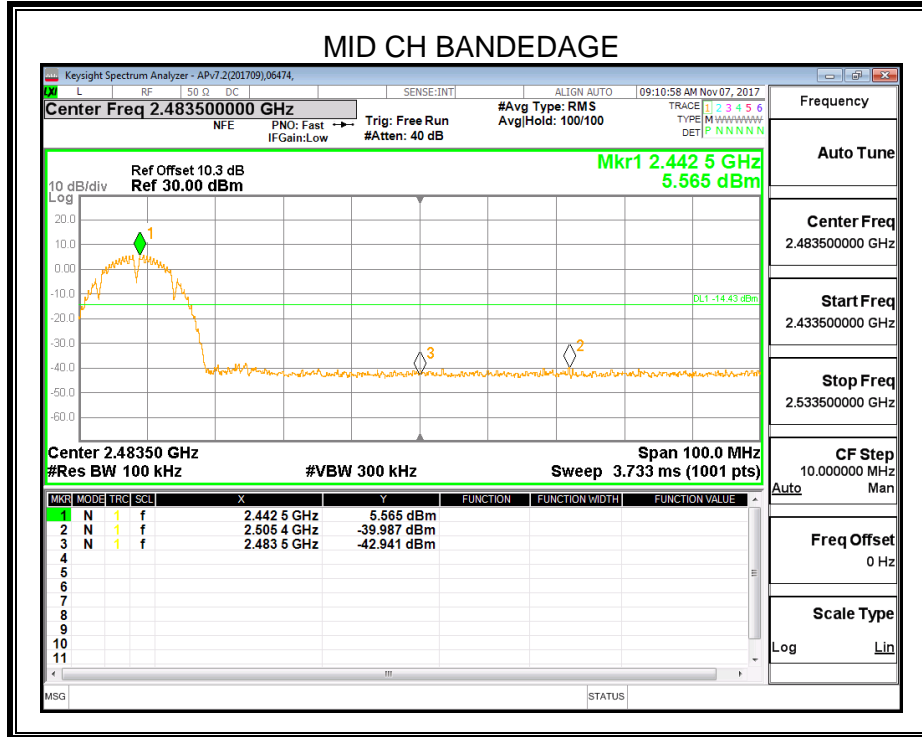
### TEST SETUP

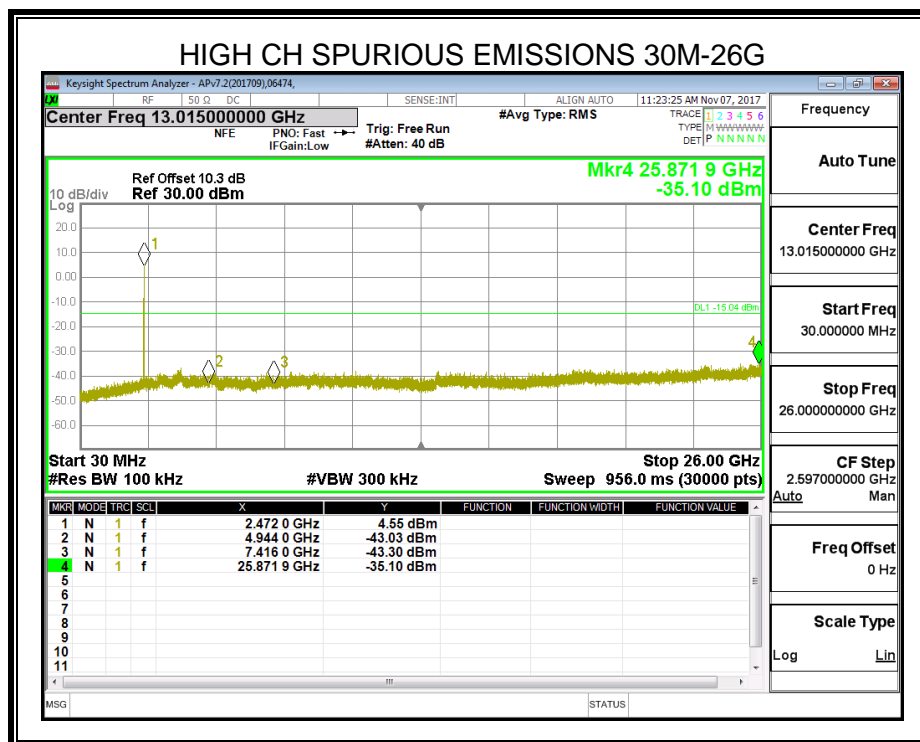
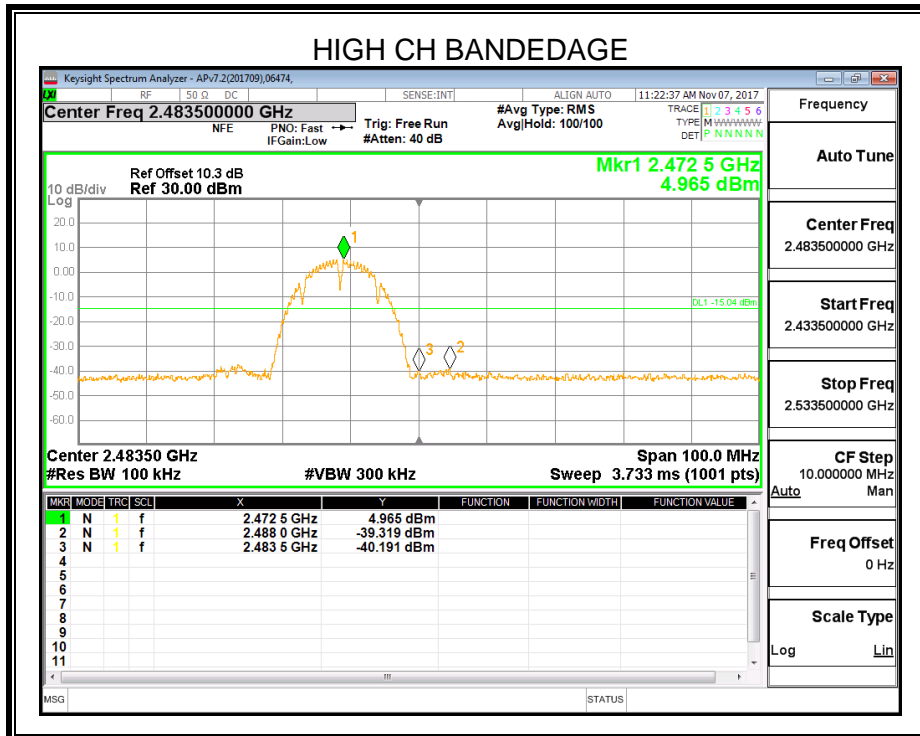


### 7.5.1. 802.11b SISO MODE

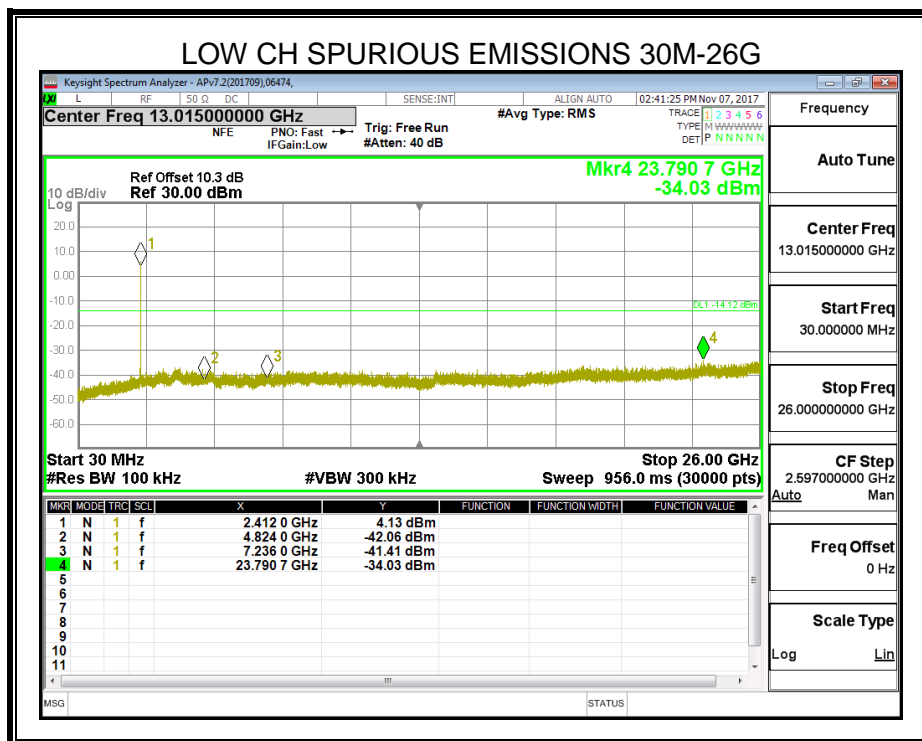
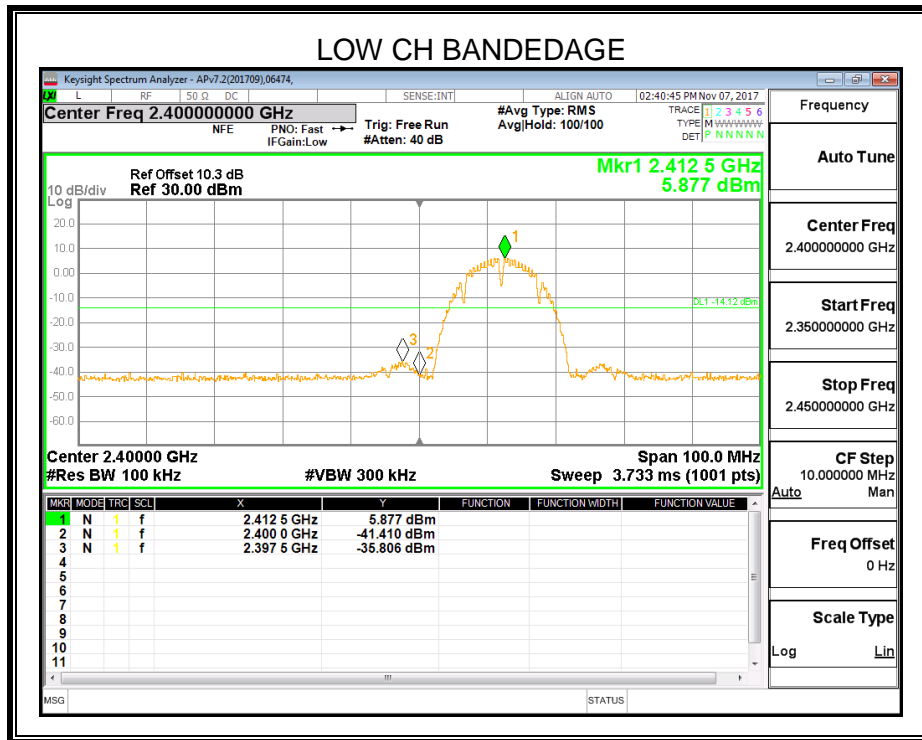
#### ANTENNA1

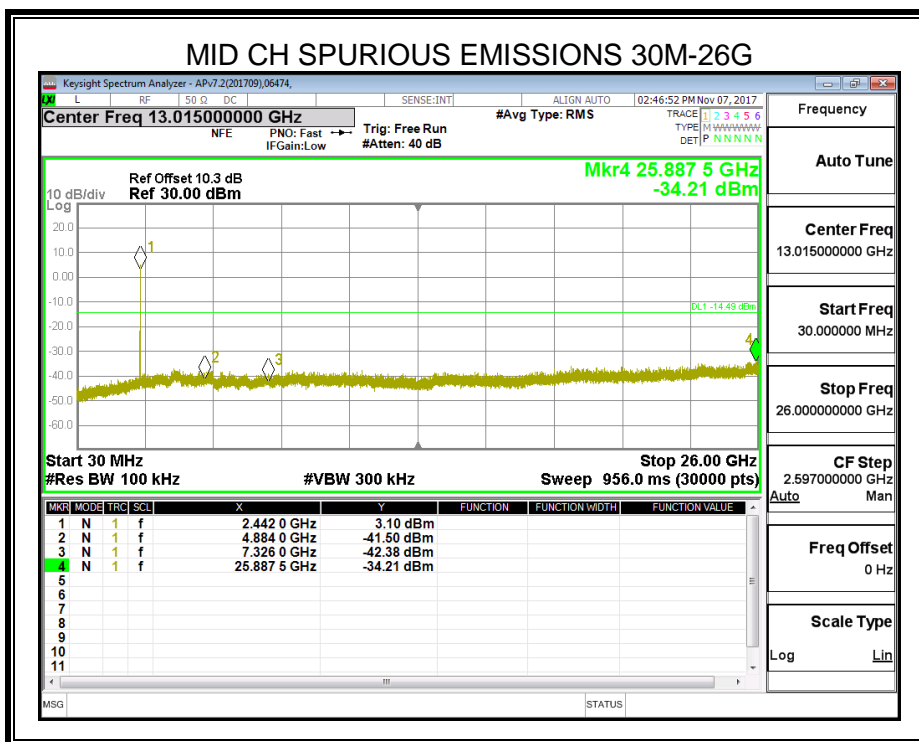
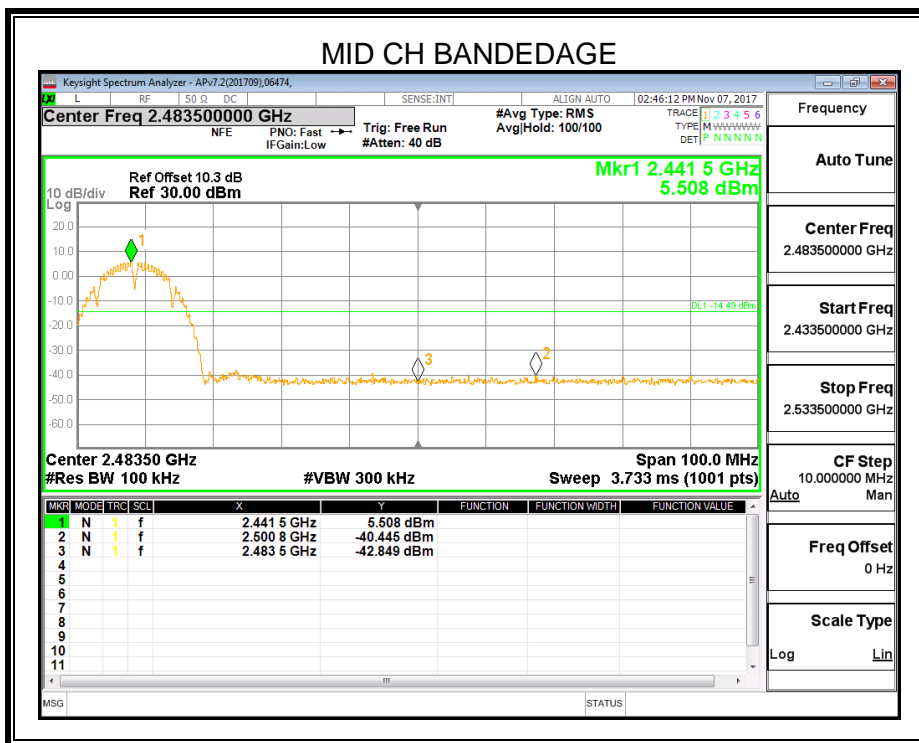


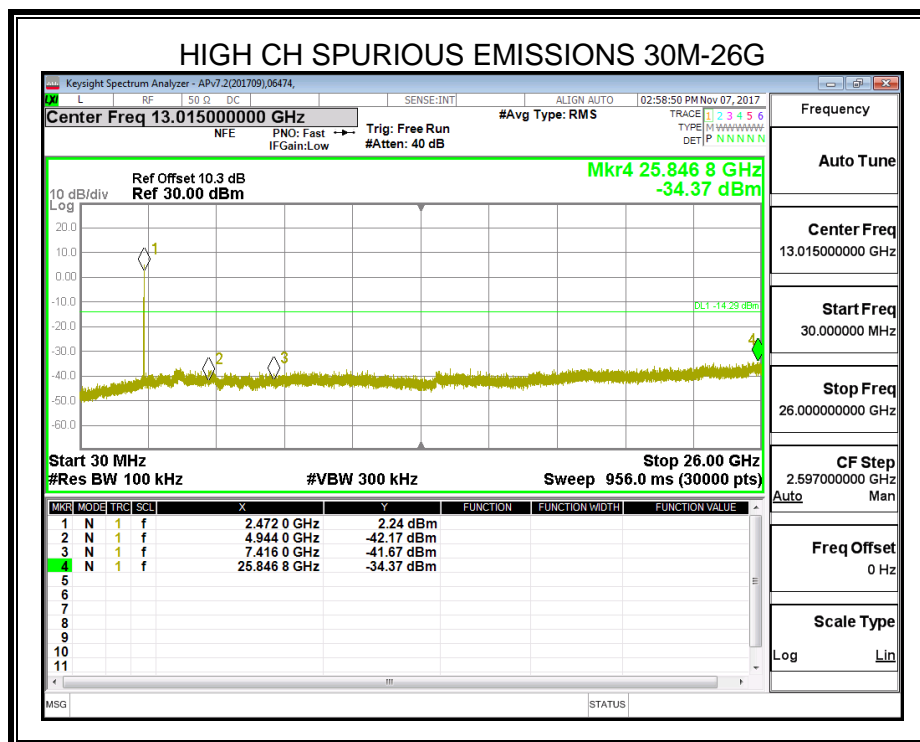
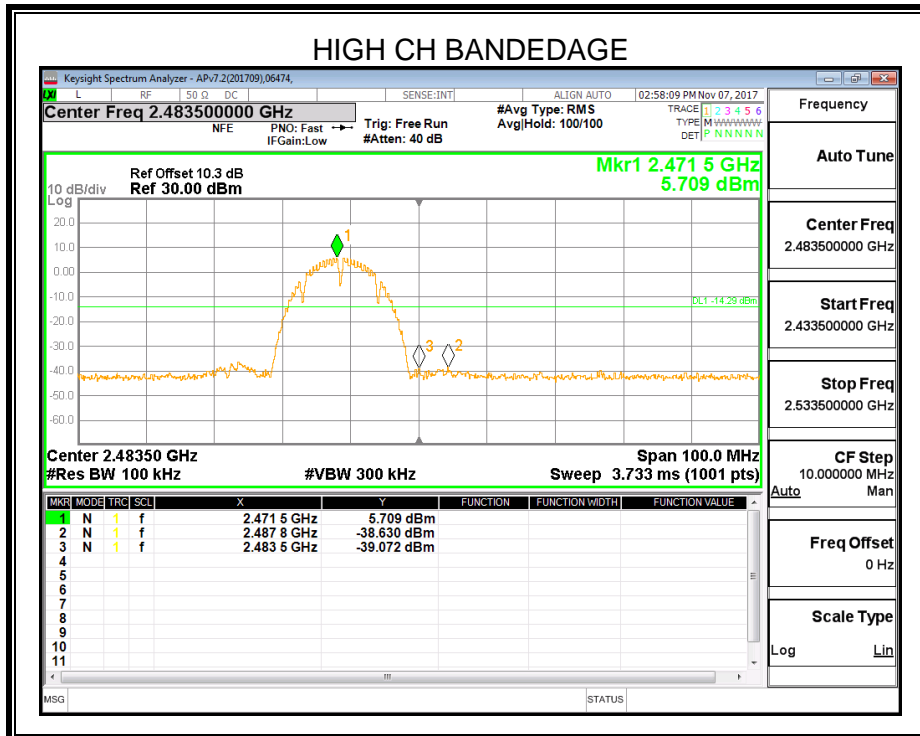




**ANTENNA2**

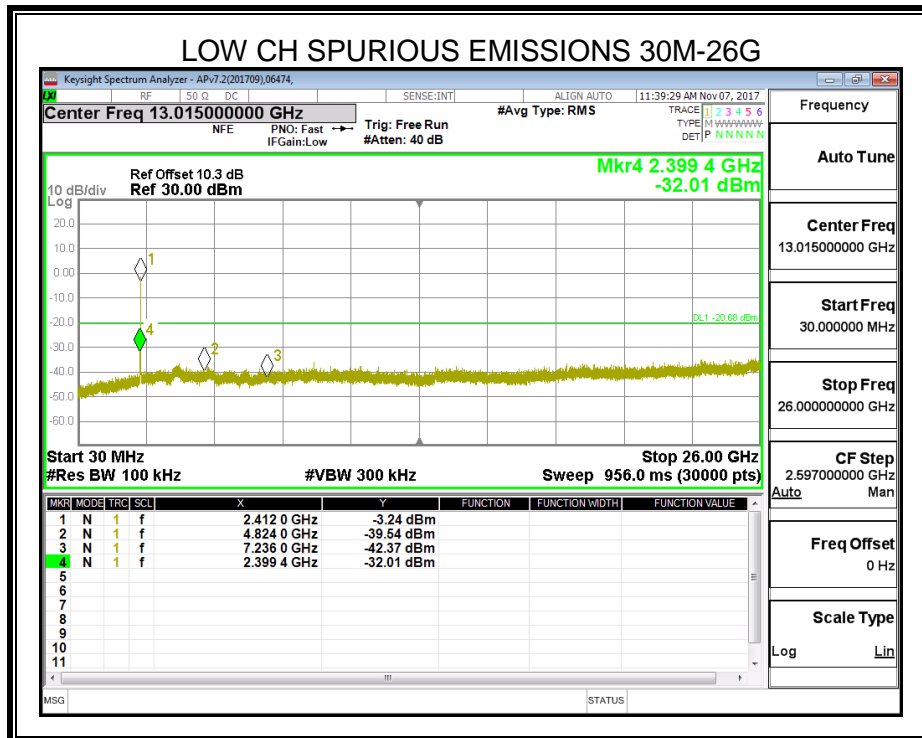
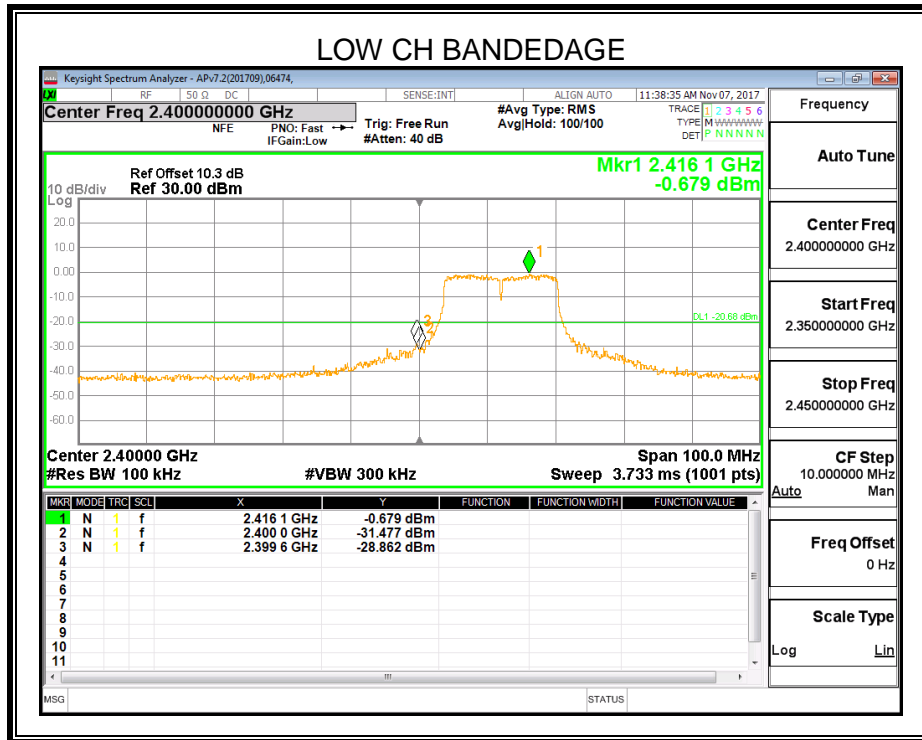




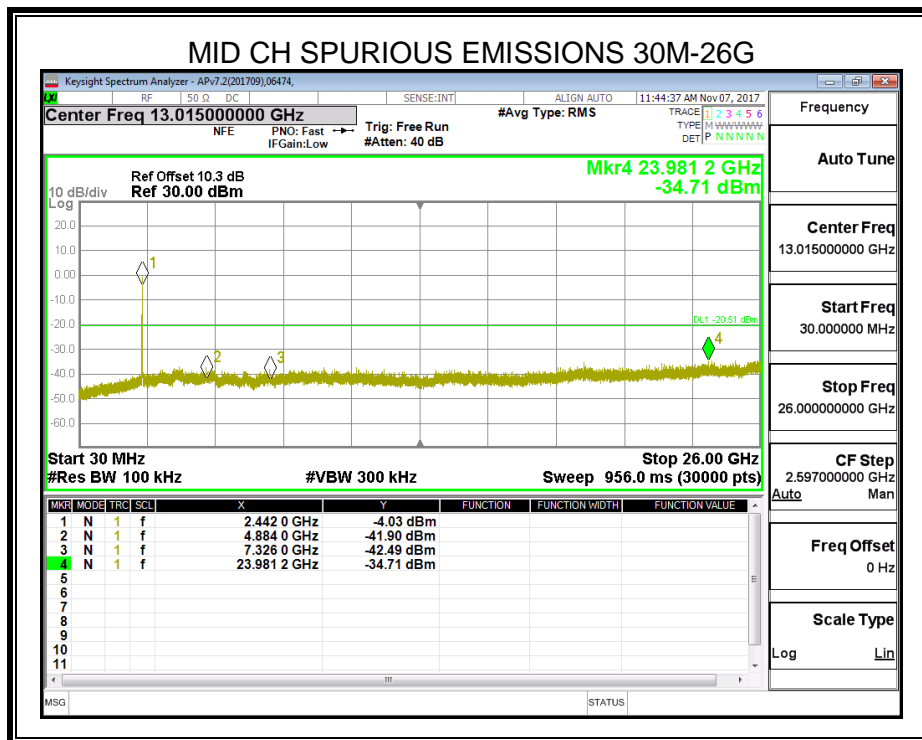
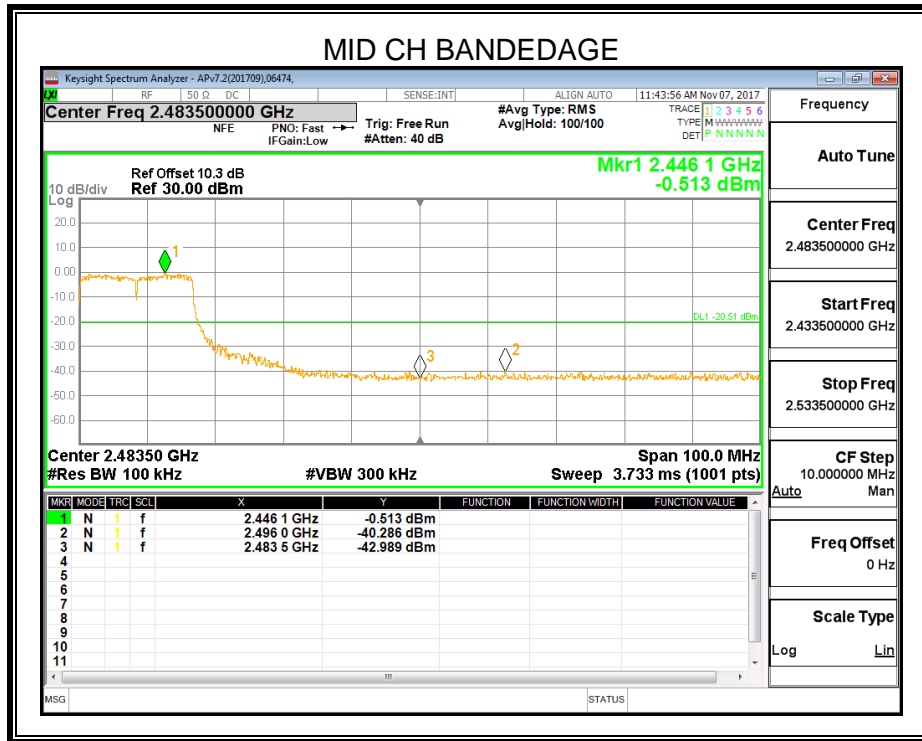


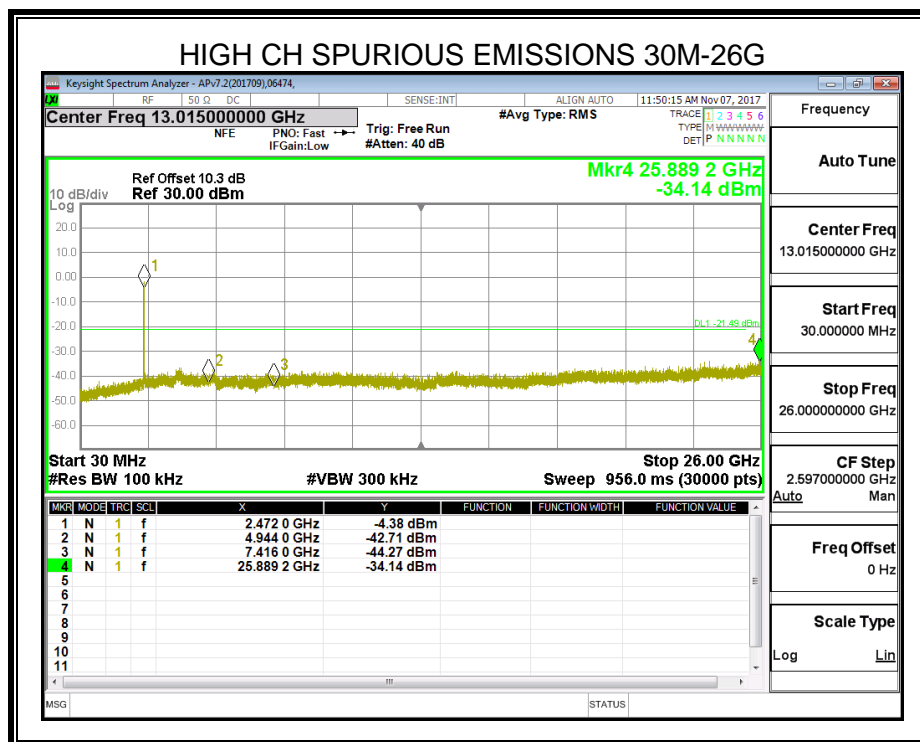
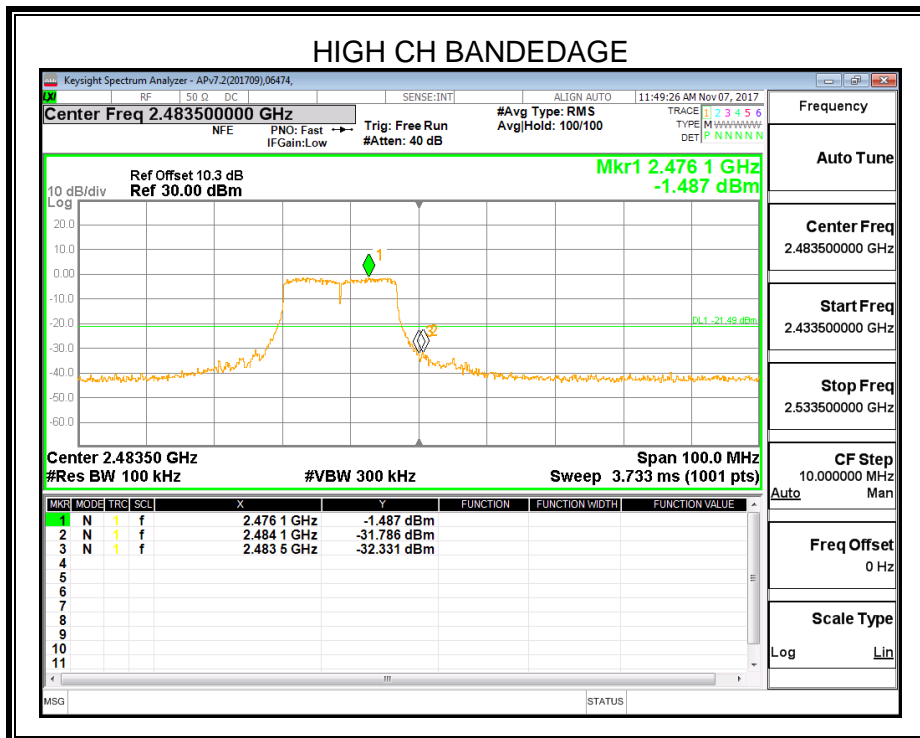
### 7.5.2. 802.11g SISO MODE

#### ANTENNA1

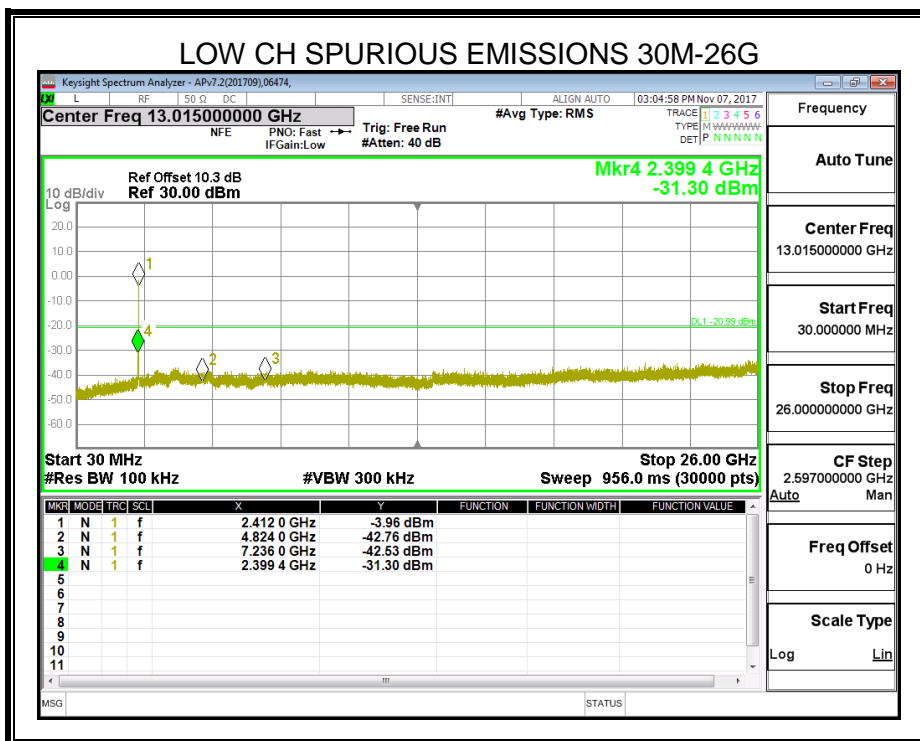
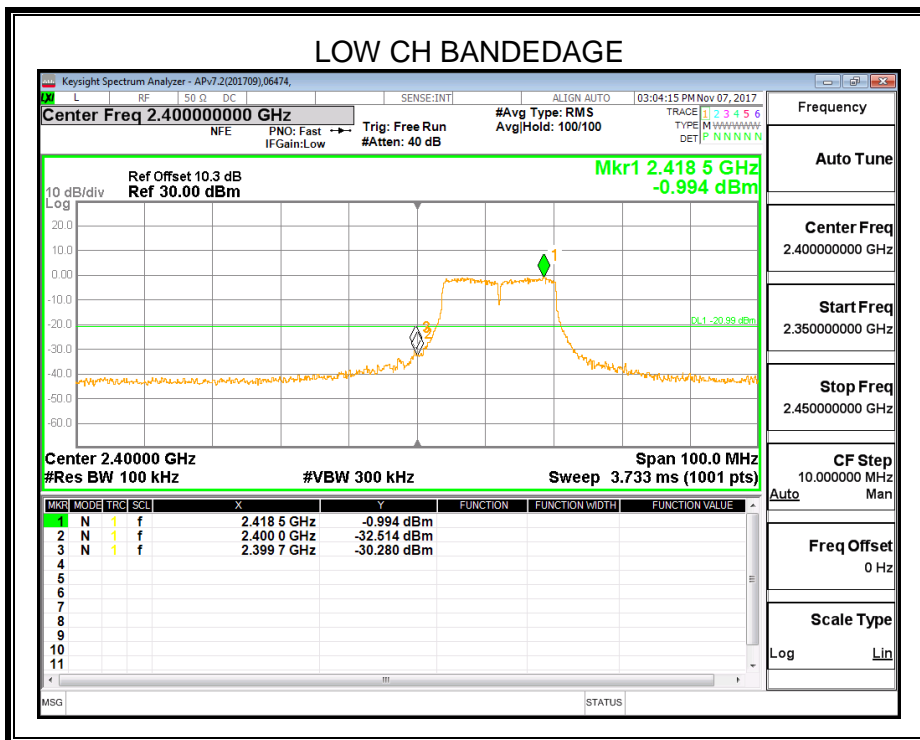


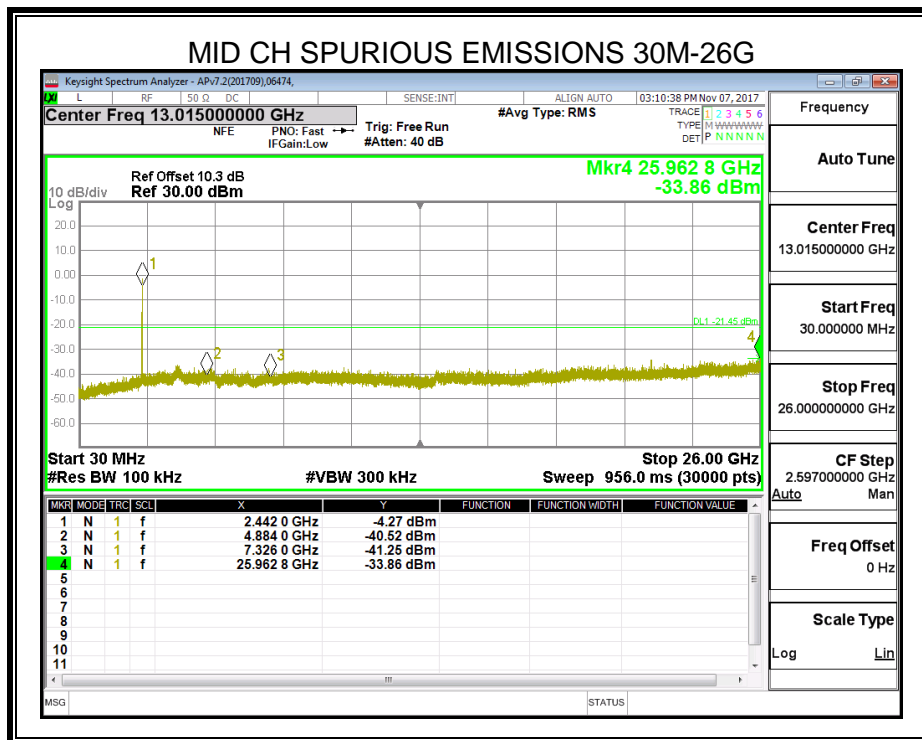
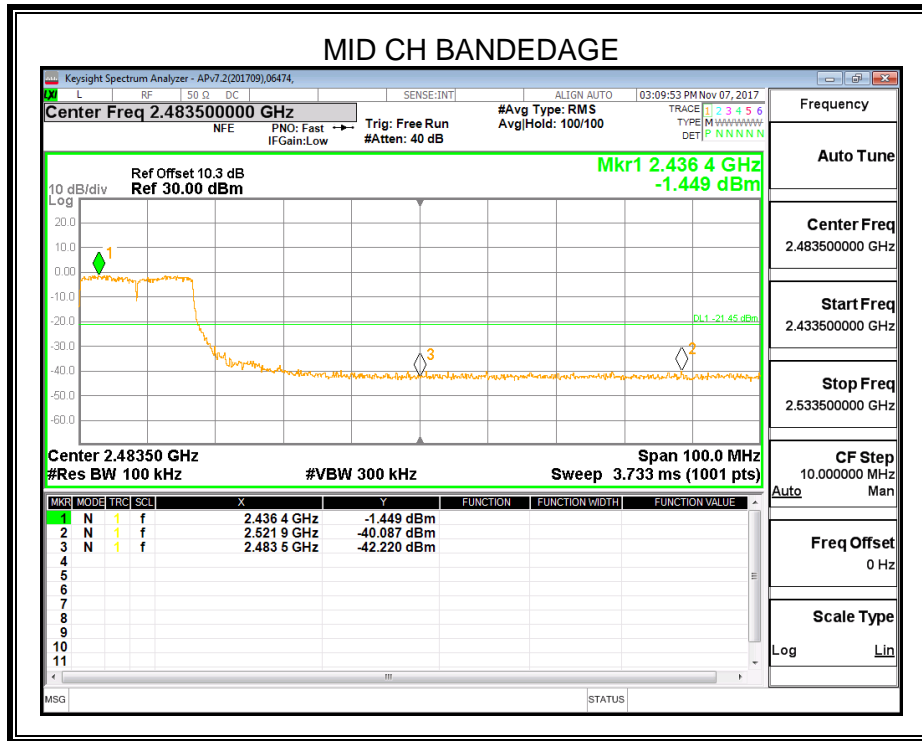


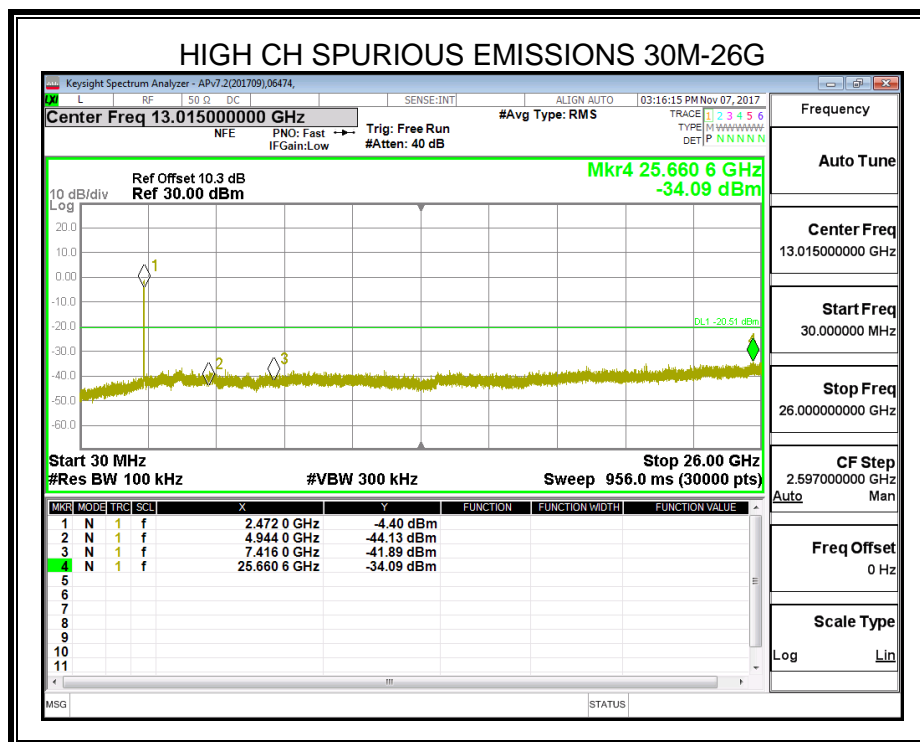
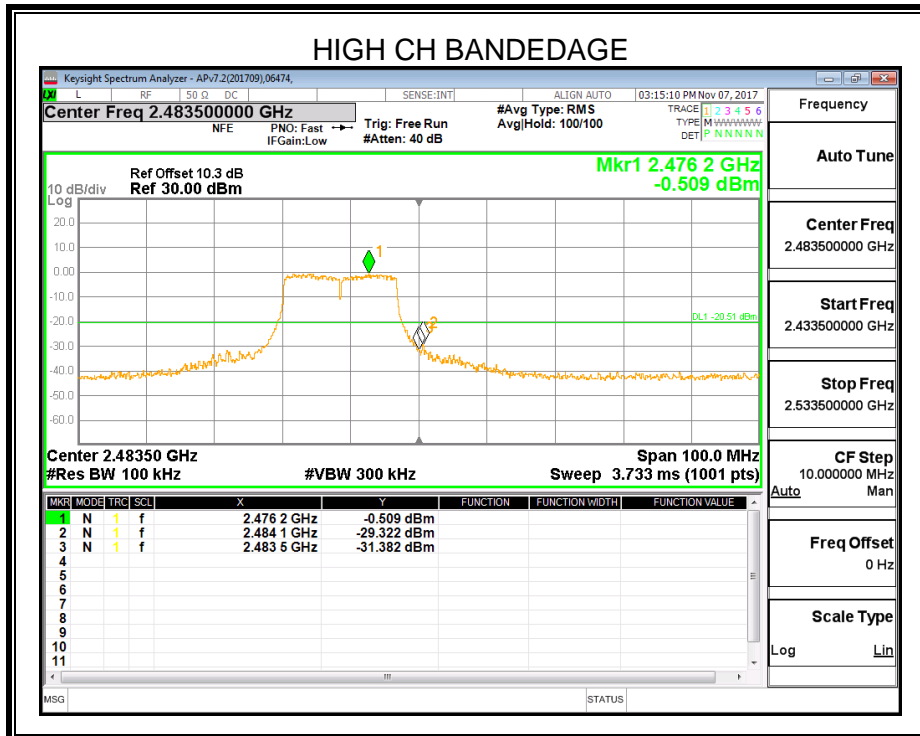




**ANTENNA2**

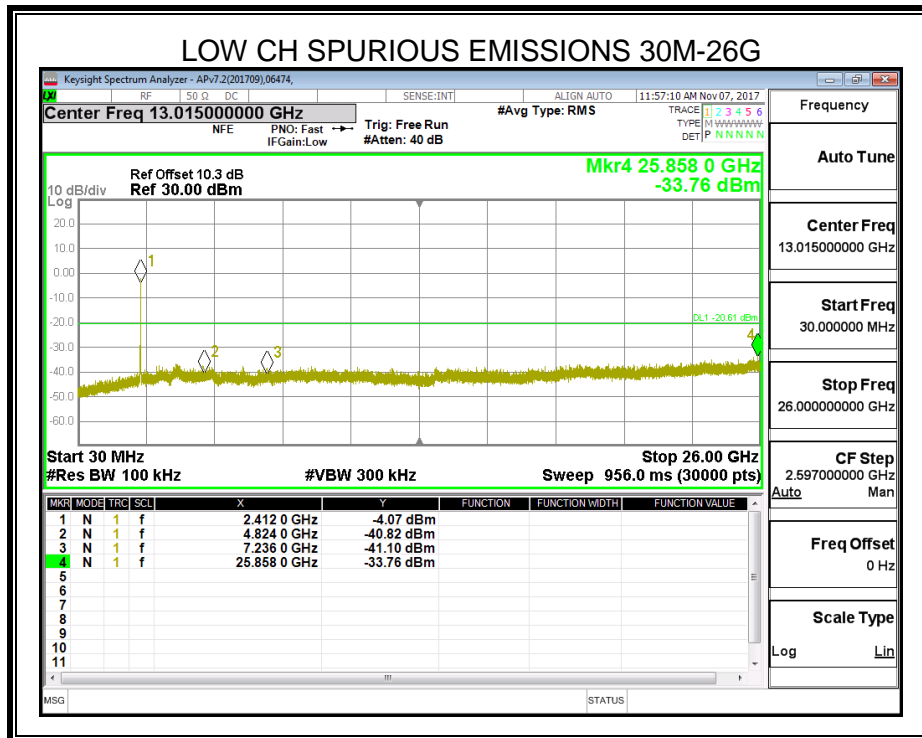
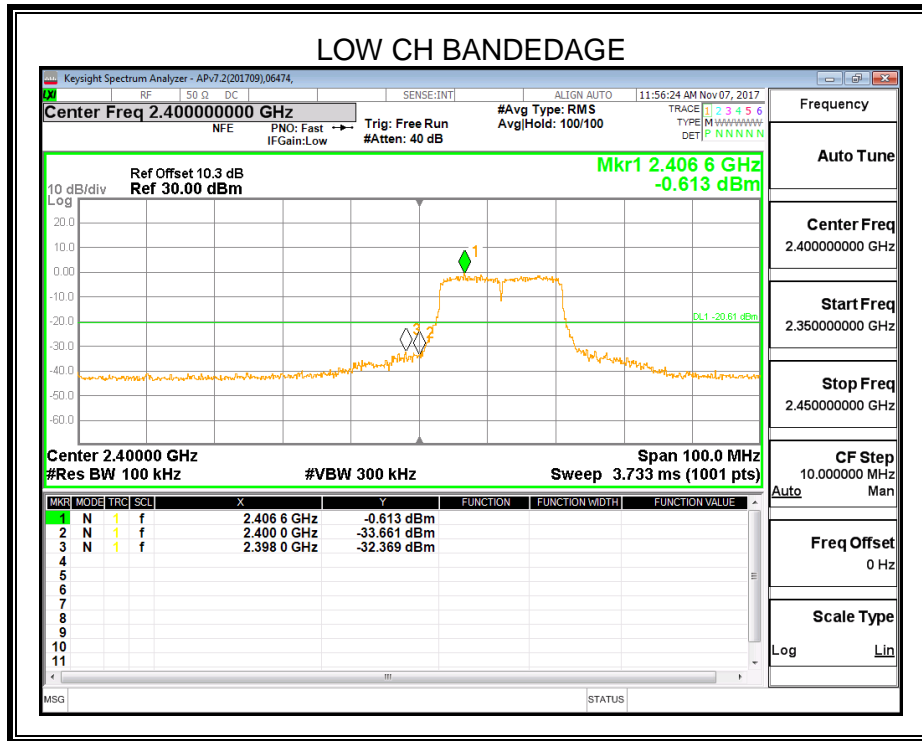


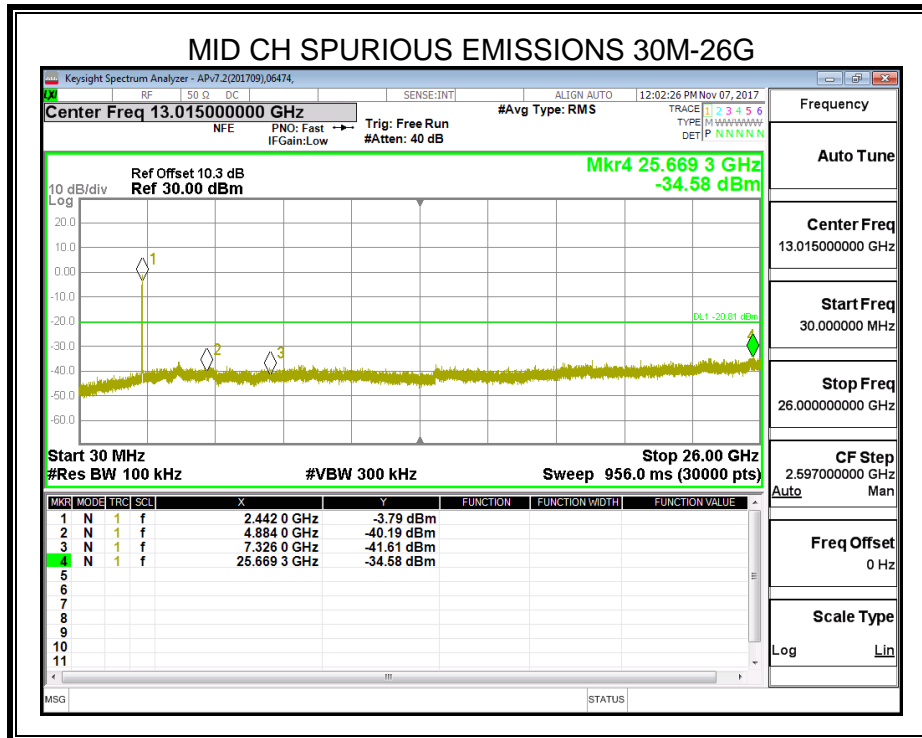
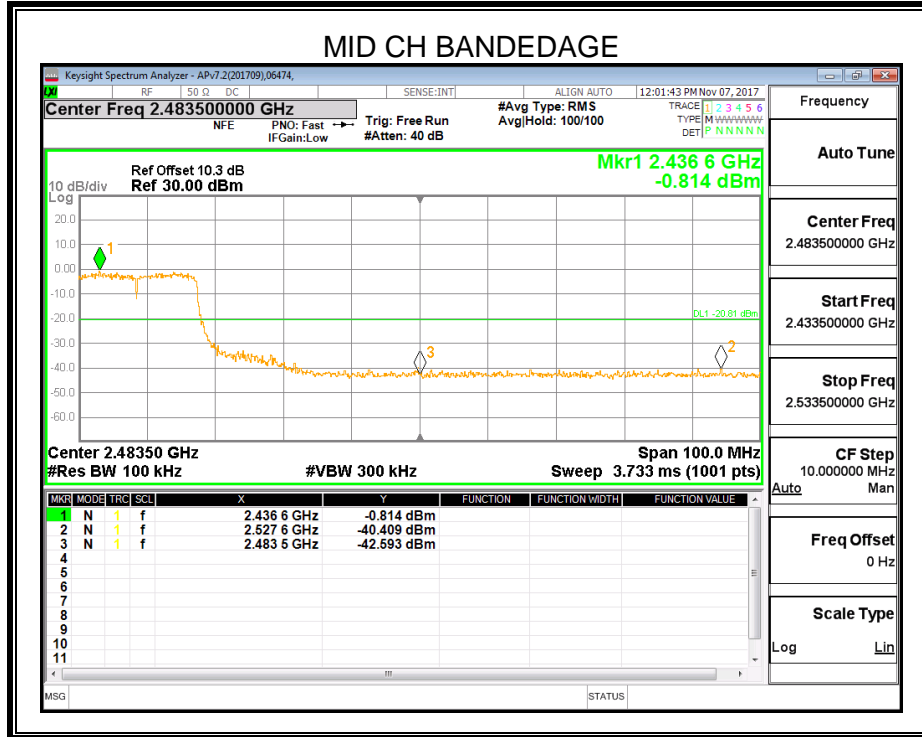


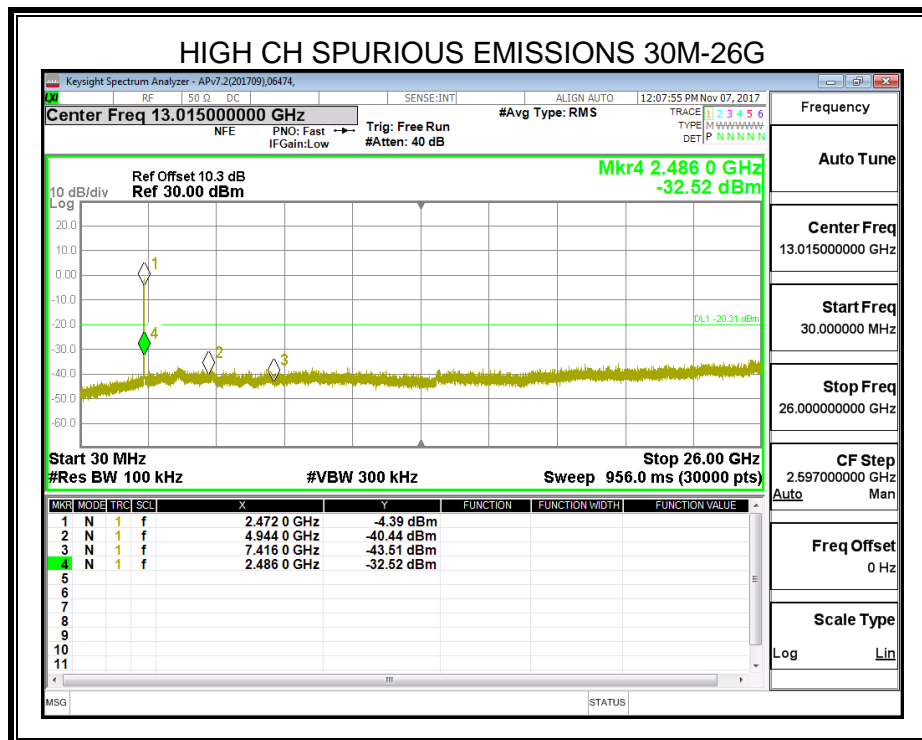
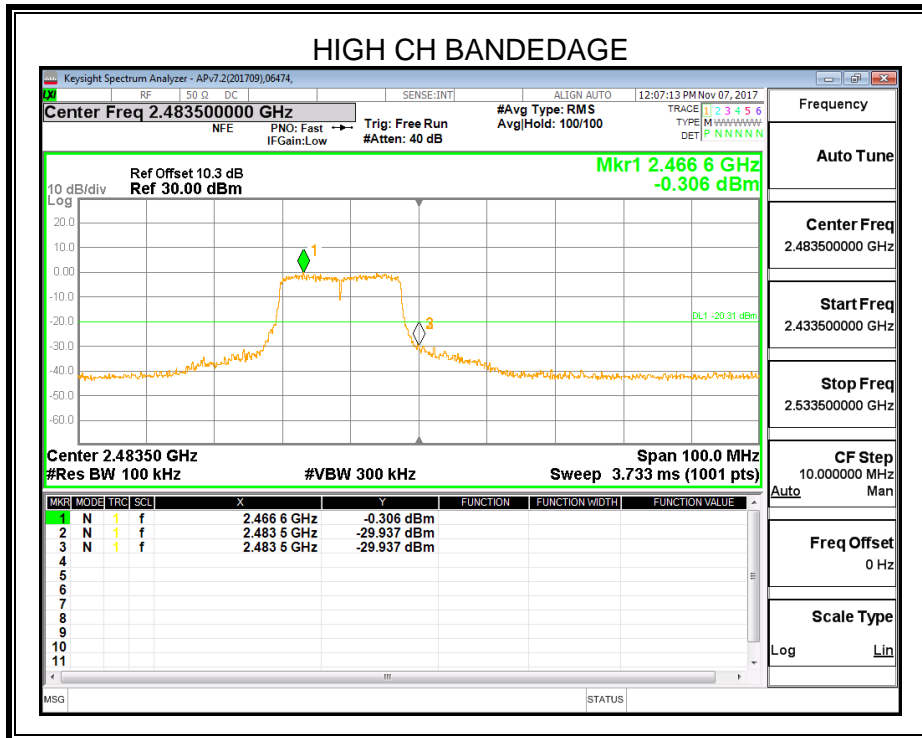


### 7.5.3. 802.11n20 CDD MODE

#### ANTENNA1

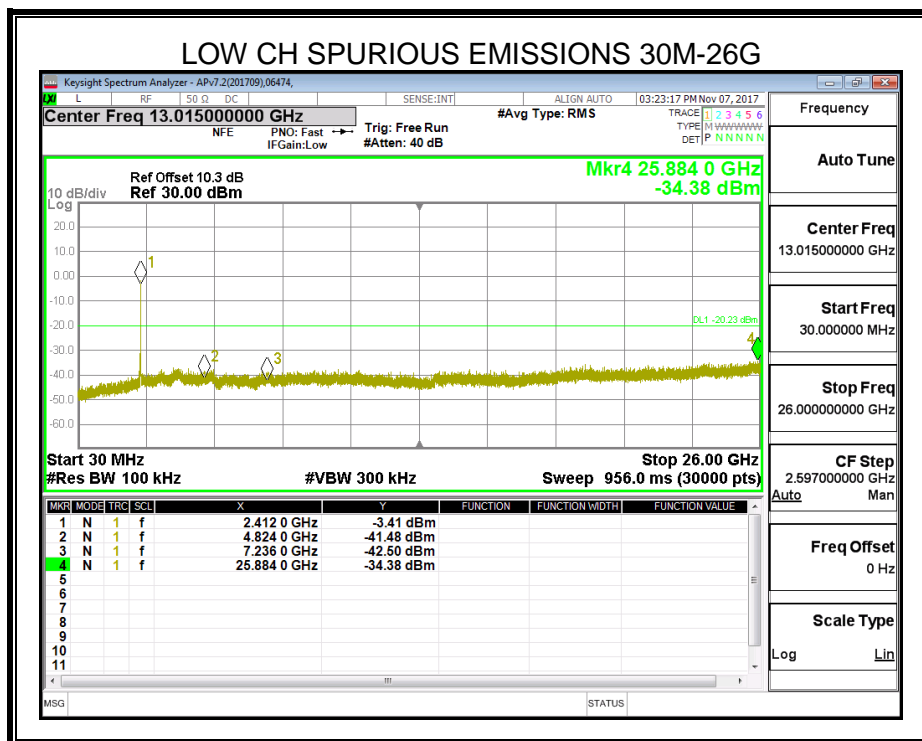
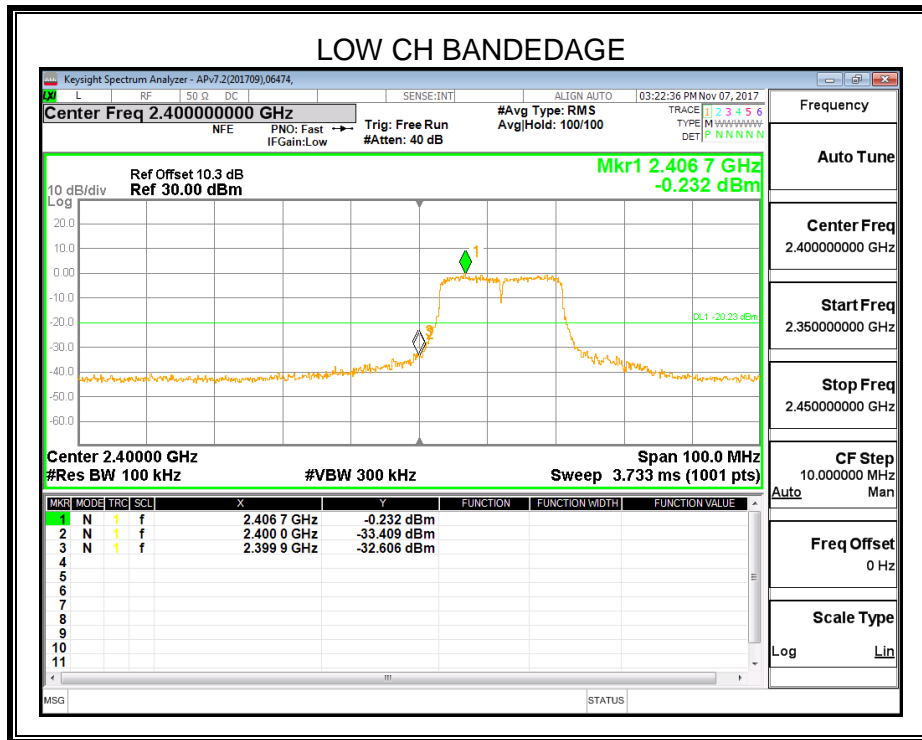


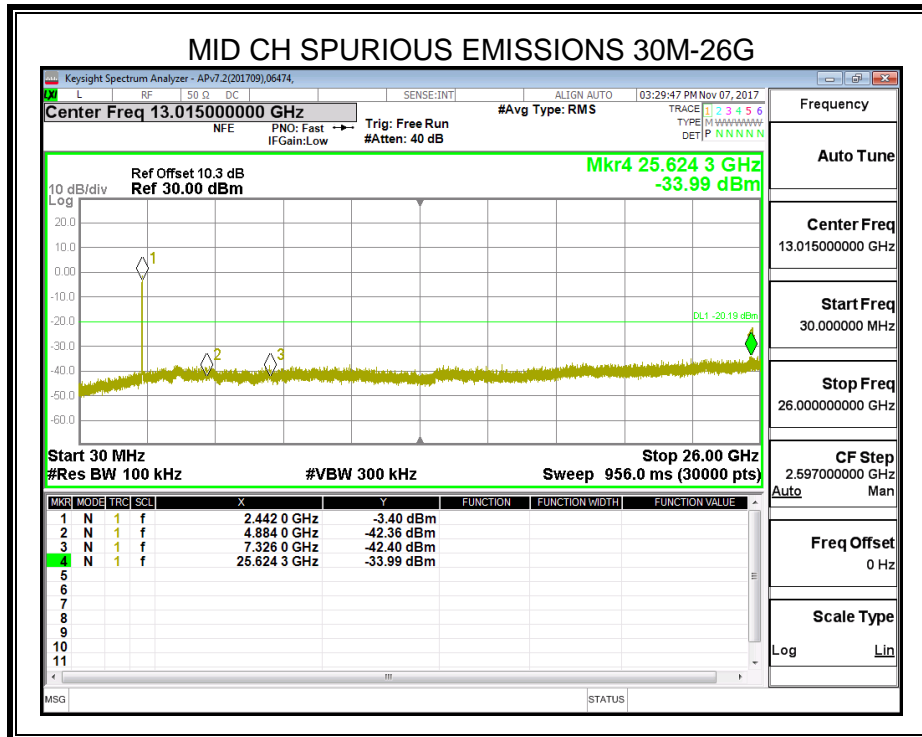
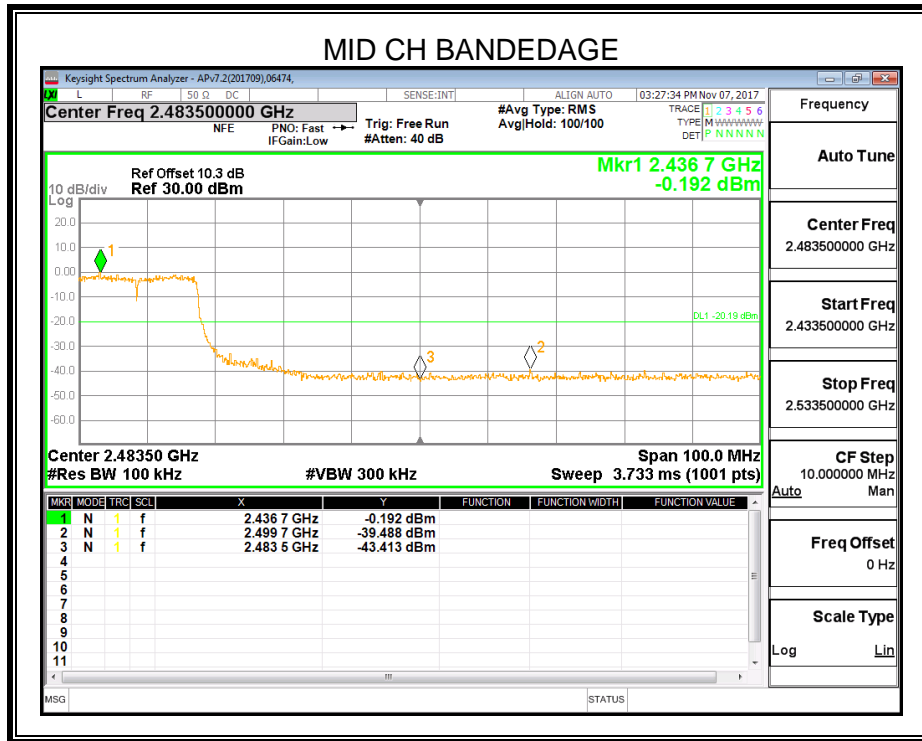


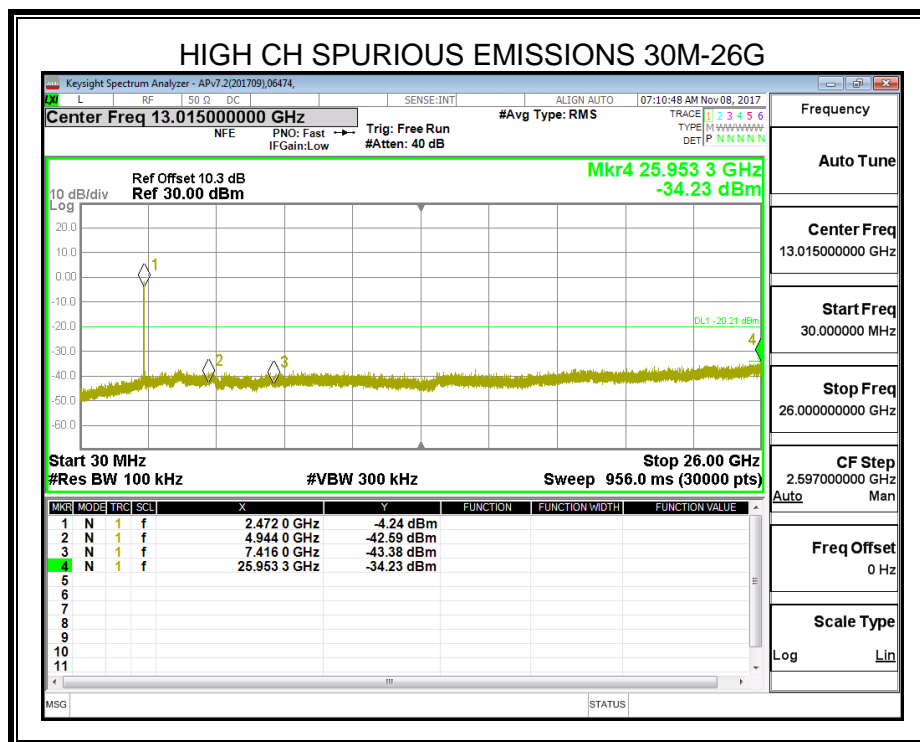
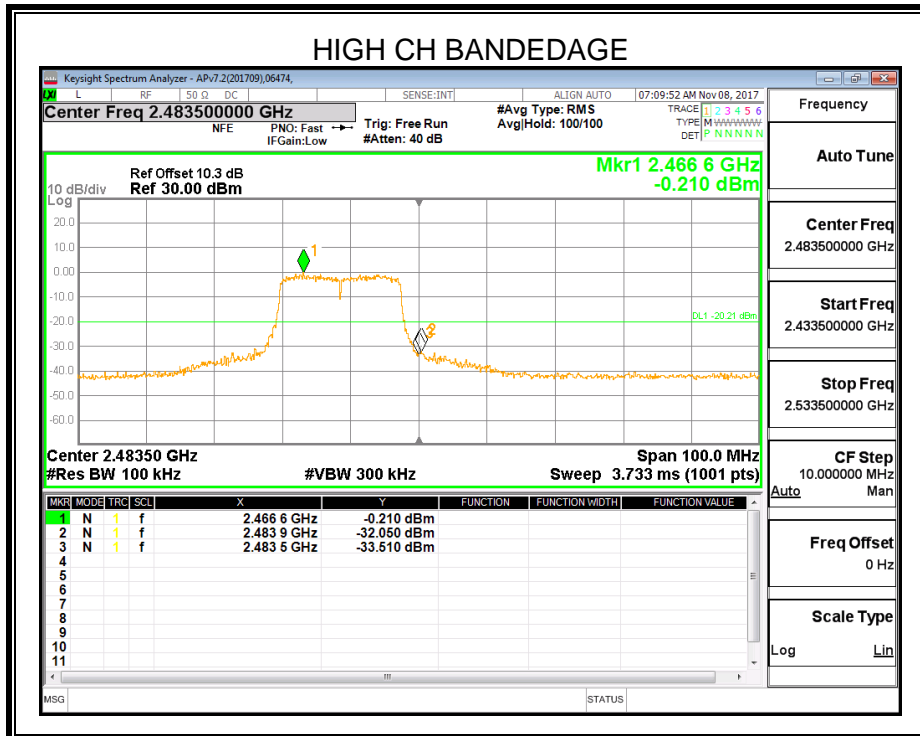




**ANTENNA2**

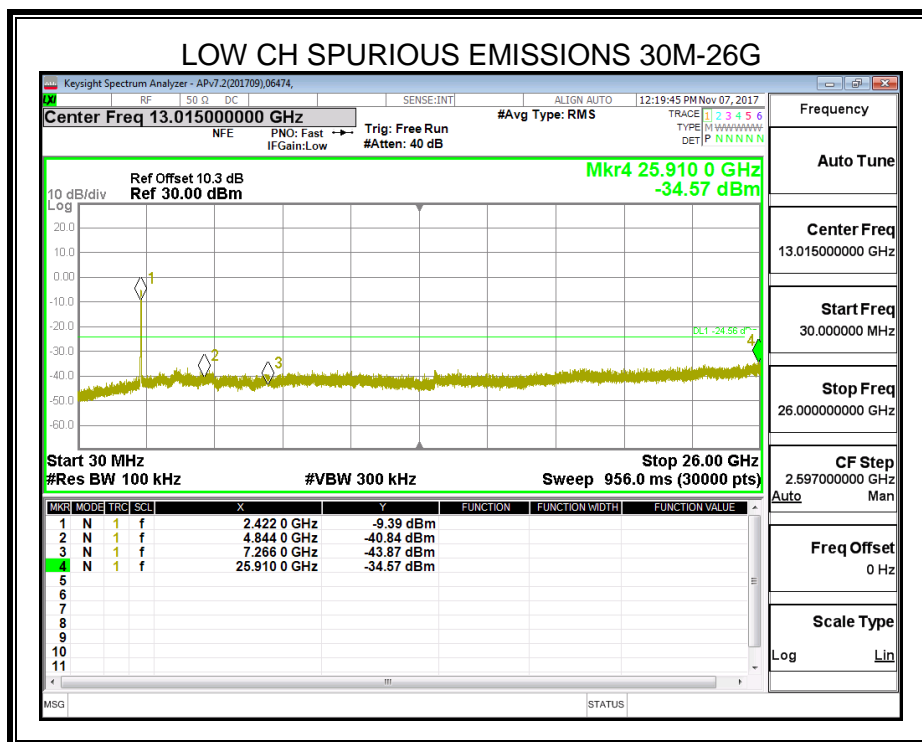
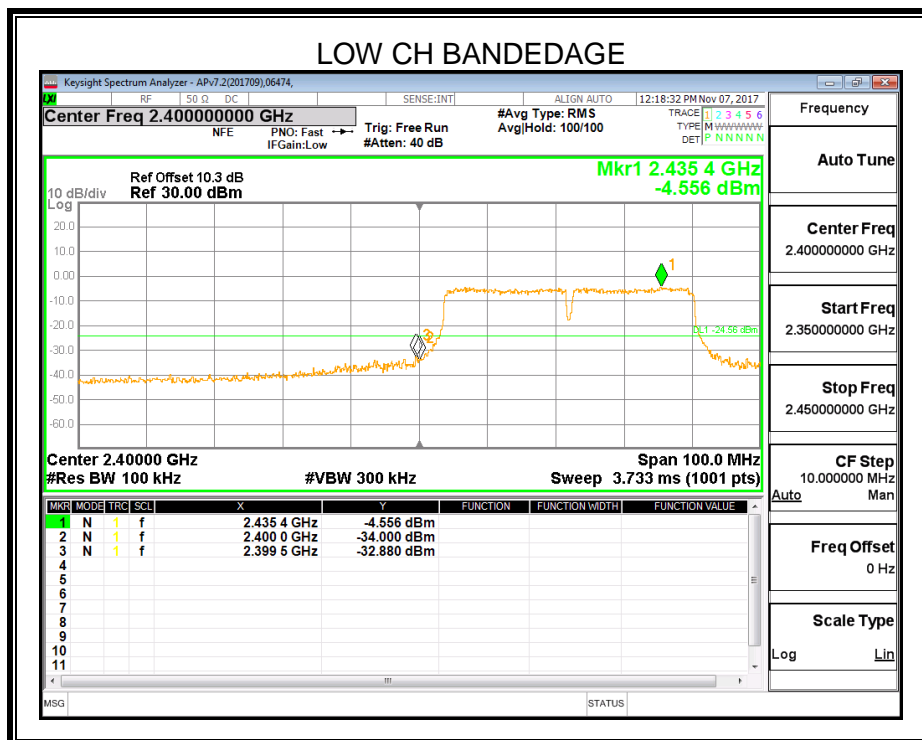


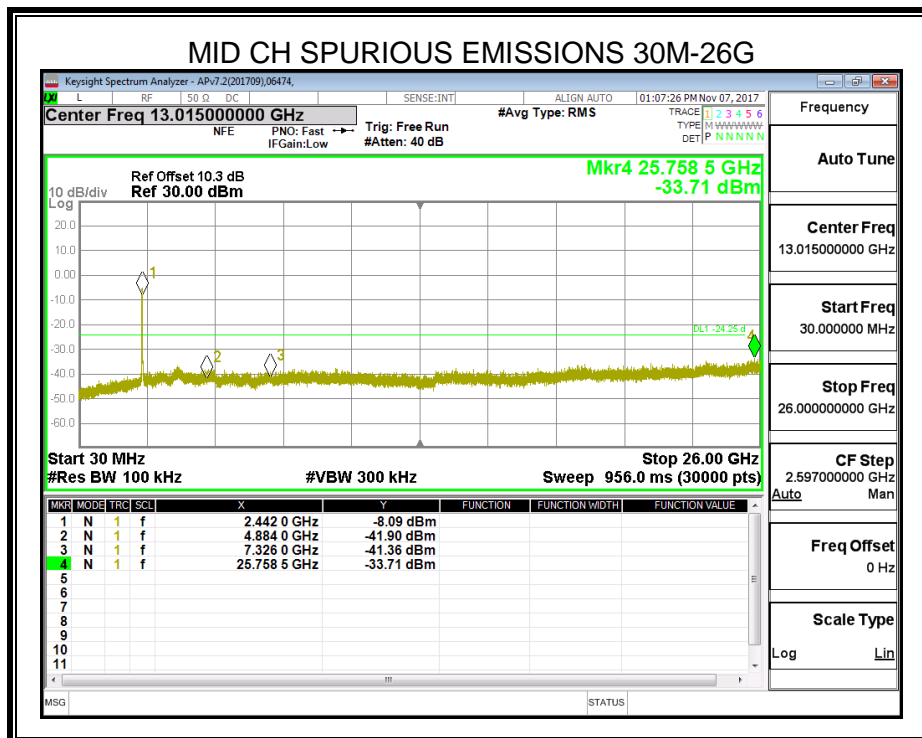
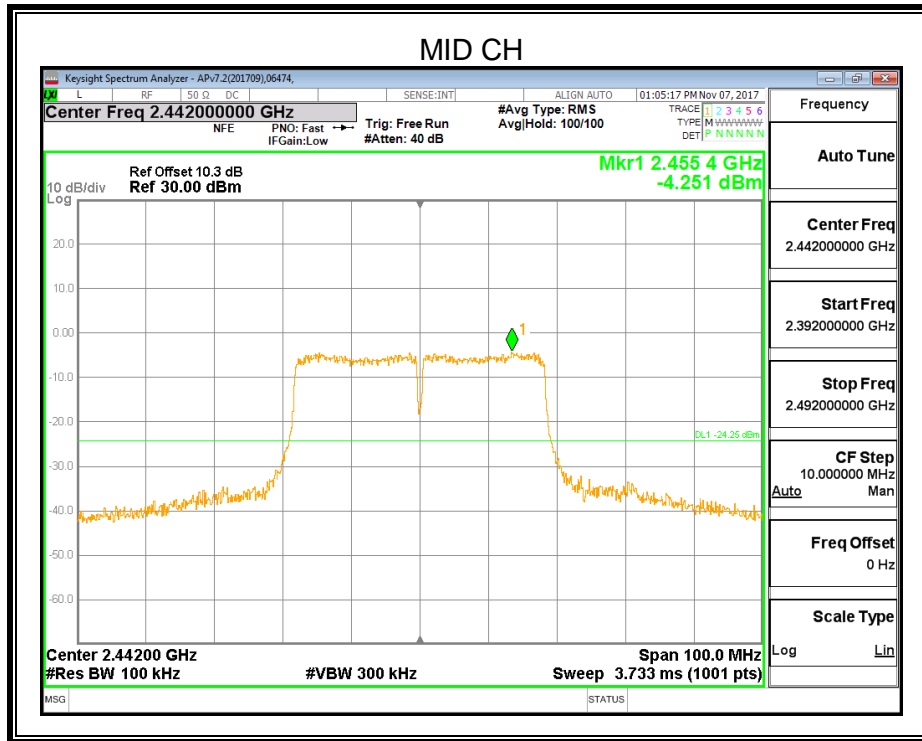


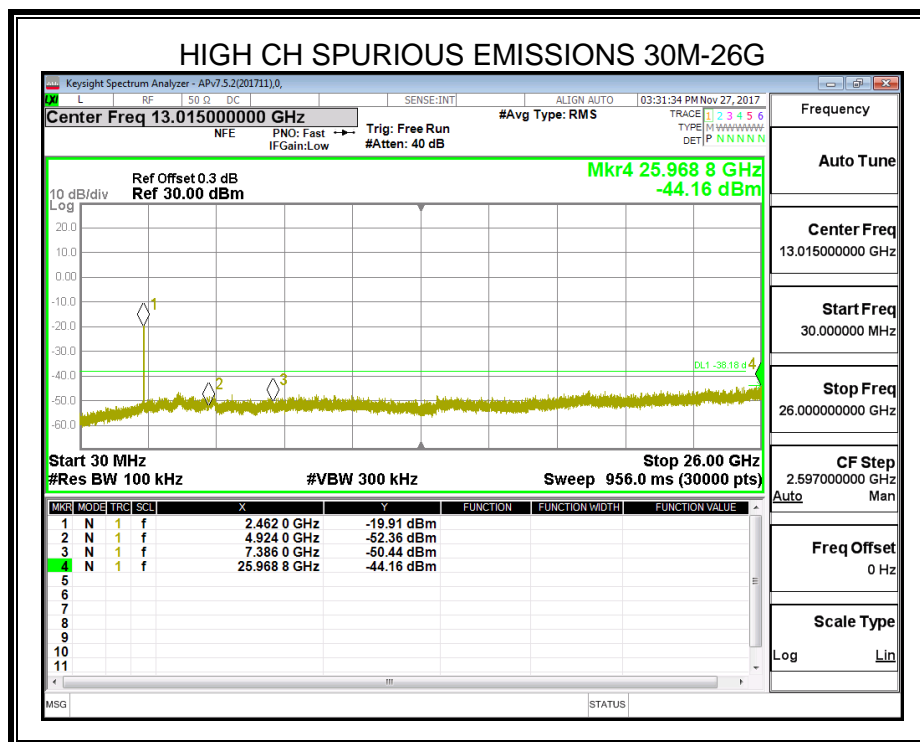
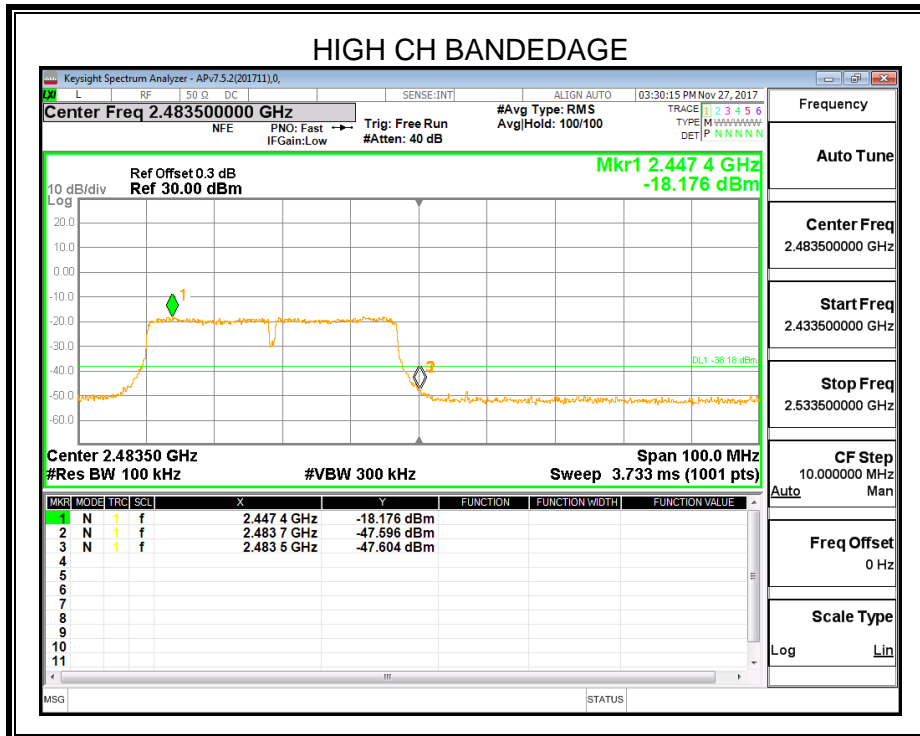


### 7.5.4. 802.11n40 CDD MODE

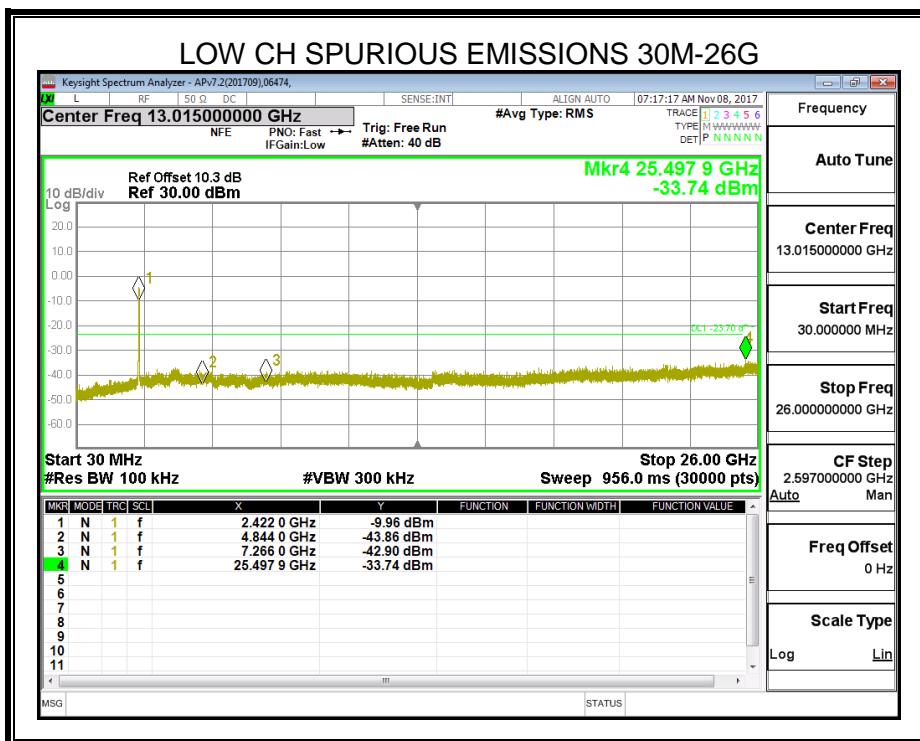
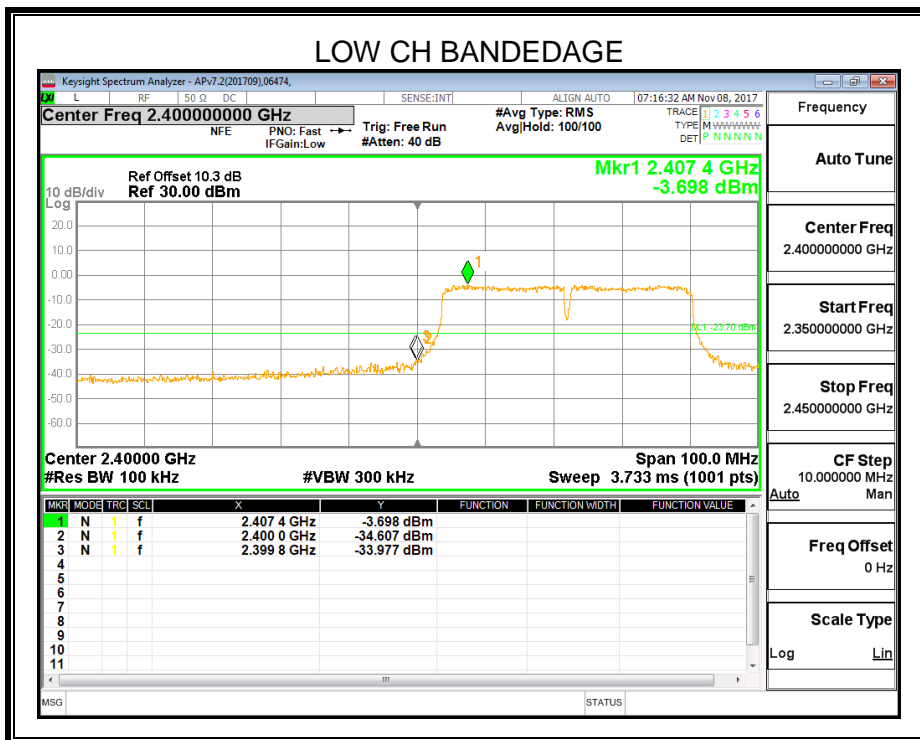
#### ANTENNA1

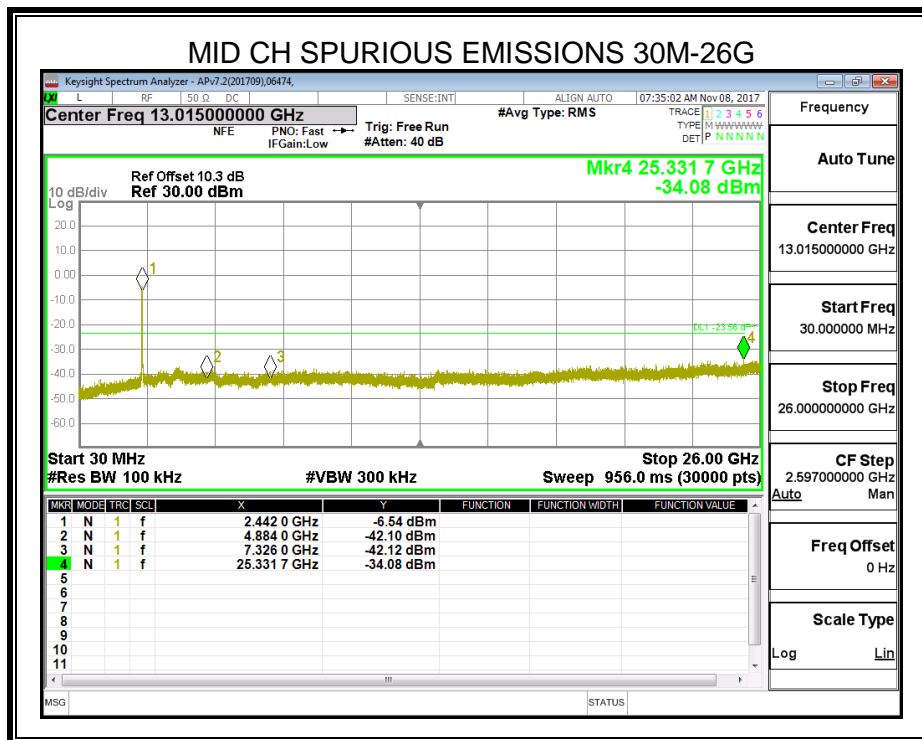
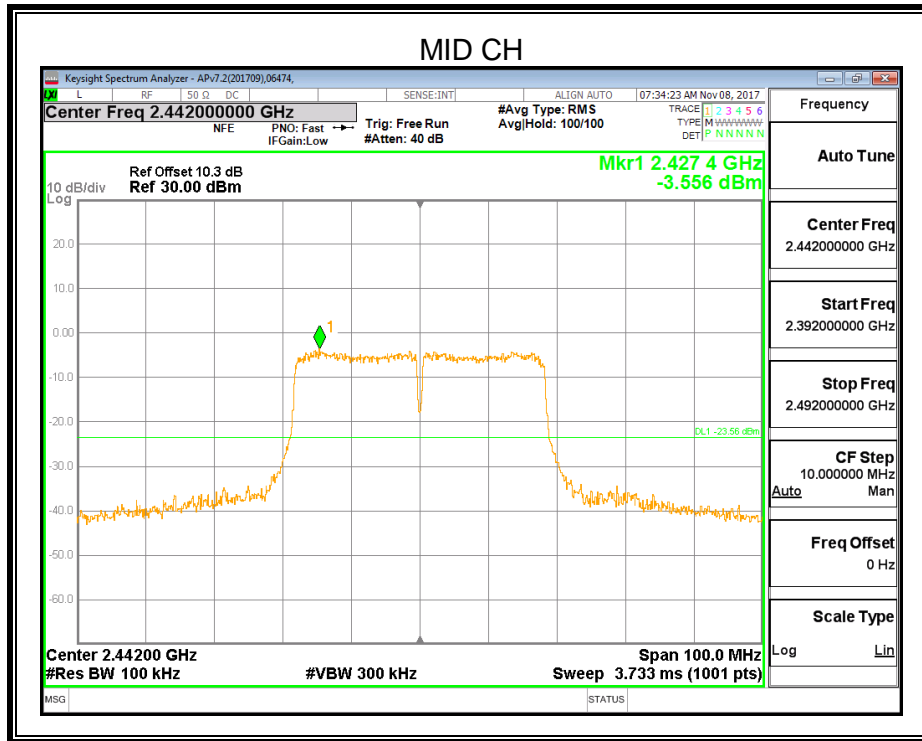




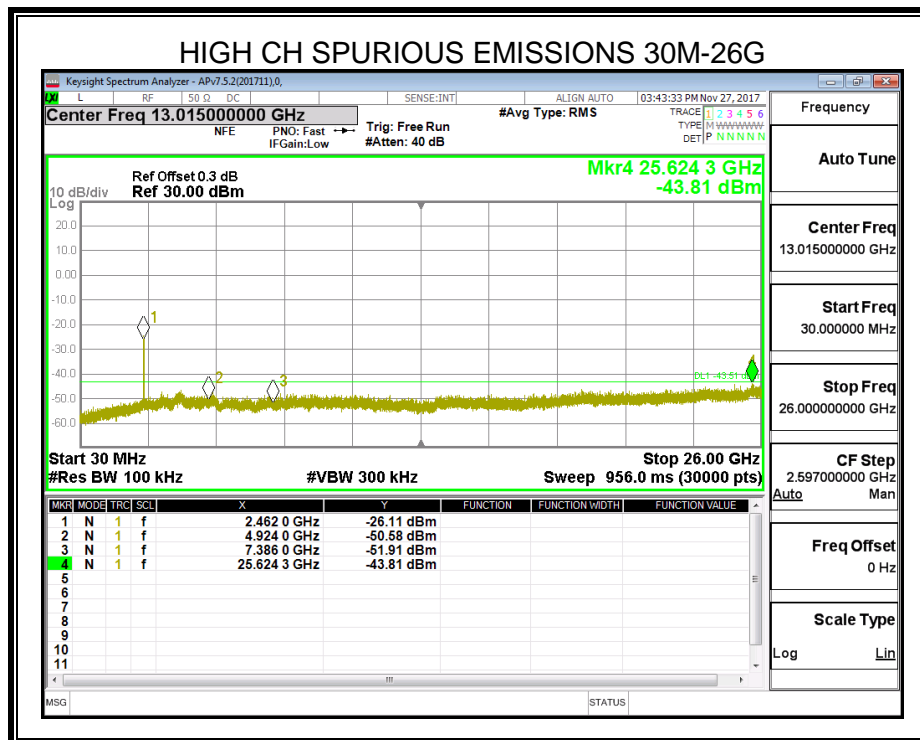
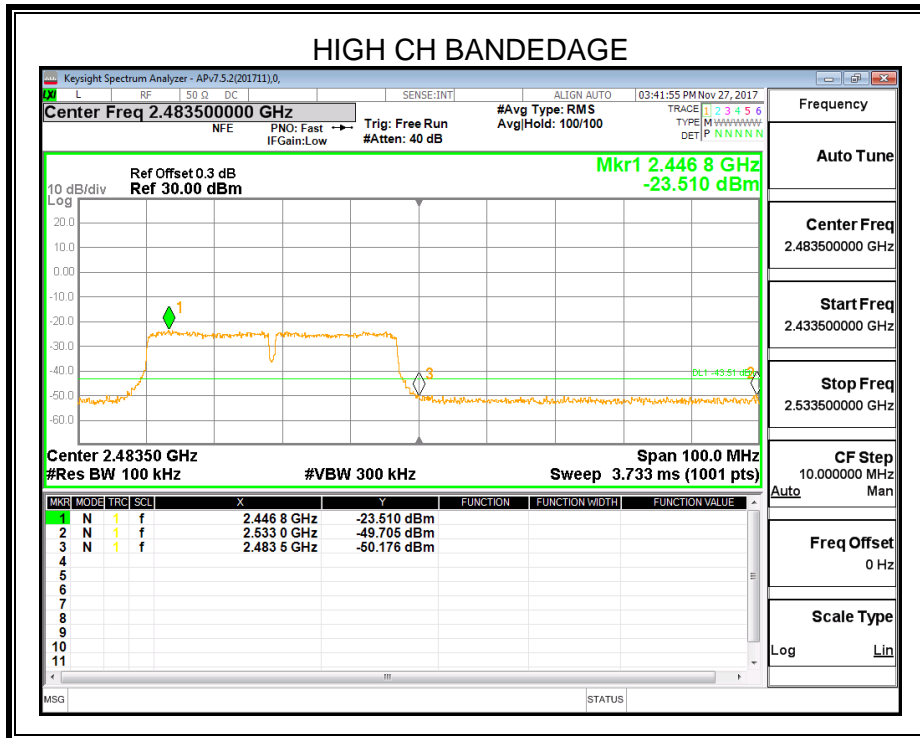


**ANTENNA2**









## 8. RADIATED TEST RESULTS

### LIMITS

Please refer to FCC §15.205 and §15.209

Please refer to RSS-GEN Clause 8.9

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

Restricted bands of operation

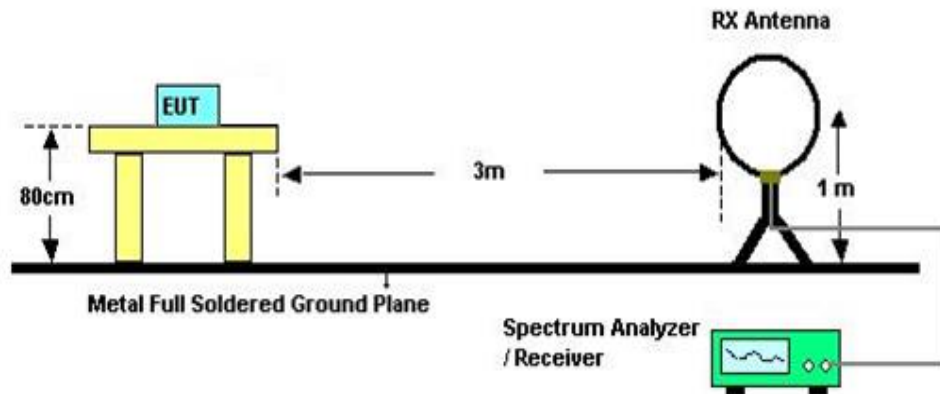
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
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	( <sup>2</sup> )
13.36-13.41			

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6c

**TEST SETUP AND PROCEDURE**

Below 30MHz

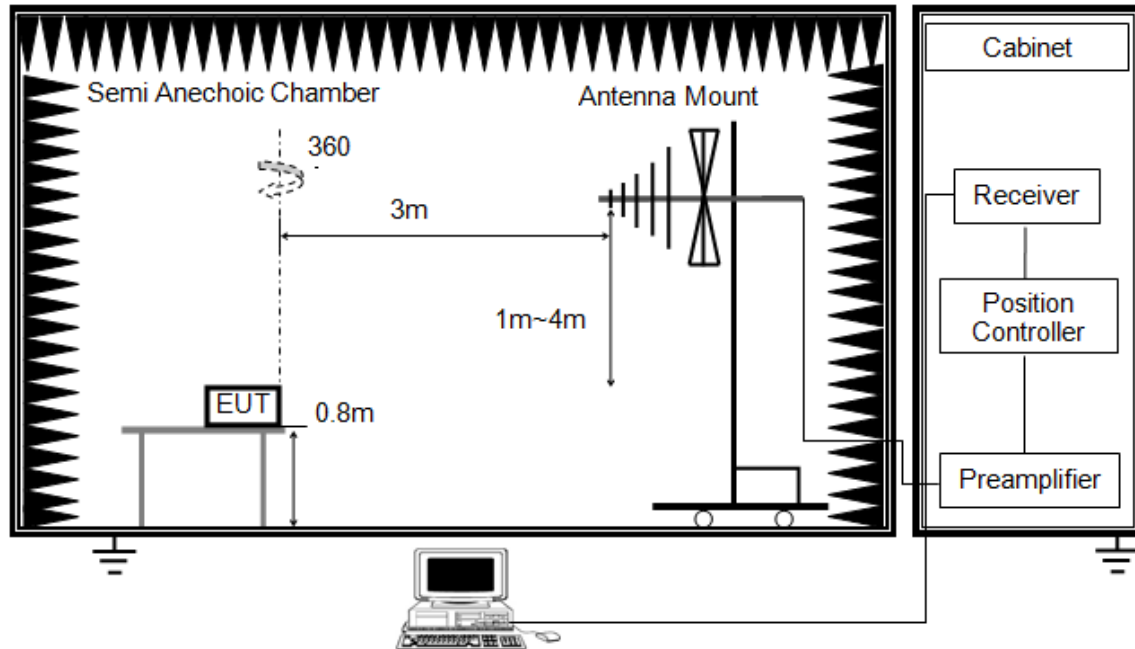


The setting of the spectrum analyser

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 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.
6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

Below 1G

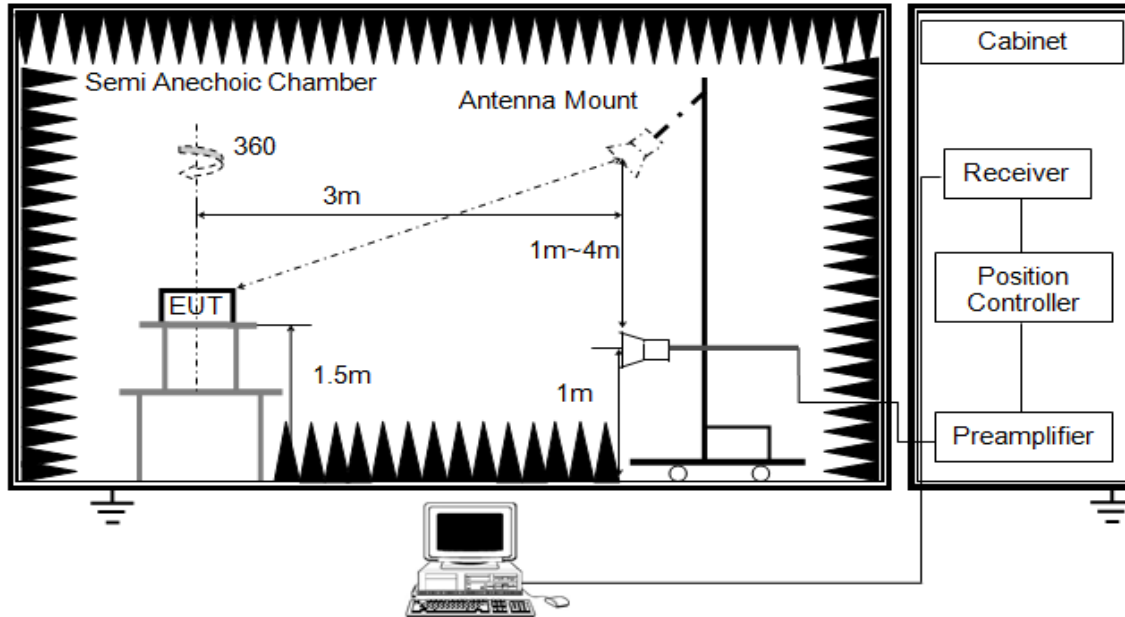


The setting of the spectrum analyser

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.
6. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration)

ABOVE 1G

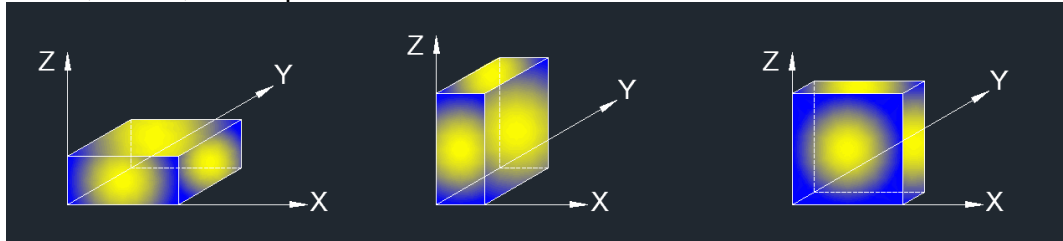


The setting of the spectrum analyser

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 the Duty Cycle and Correction Factor please refer to clause 7.1.ON TIME AND DUTY CYCLE. The EUT is configured to transmit with  $D \geq 98\%$ , then set  $VBW \leq RBW / 100$ , but not less than 10 Hz.
7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

X axis, Y axis, Z axis positions:



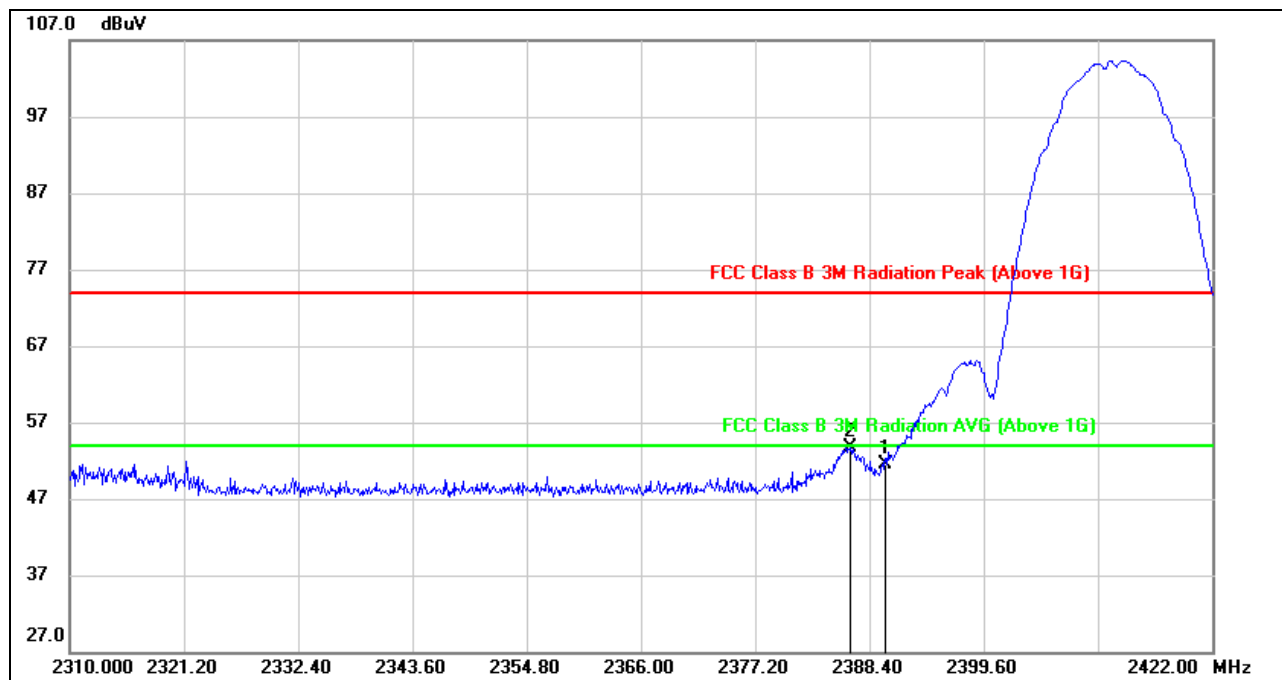
Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report

## 8.1. RESTRICTED BANDEDGE

### 8.1.1. 802.11b SISO MODE

#### ANTENNA1 (WORST-CASE CONFIGURATION)

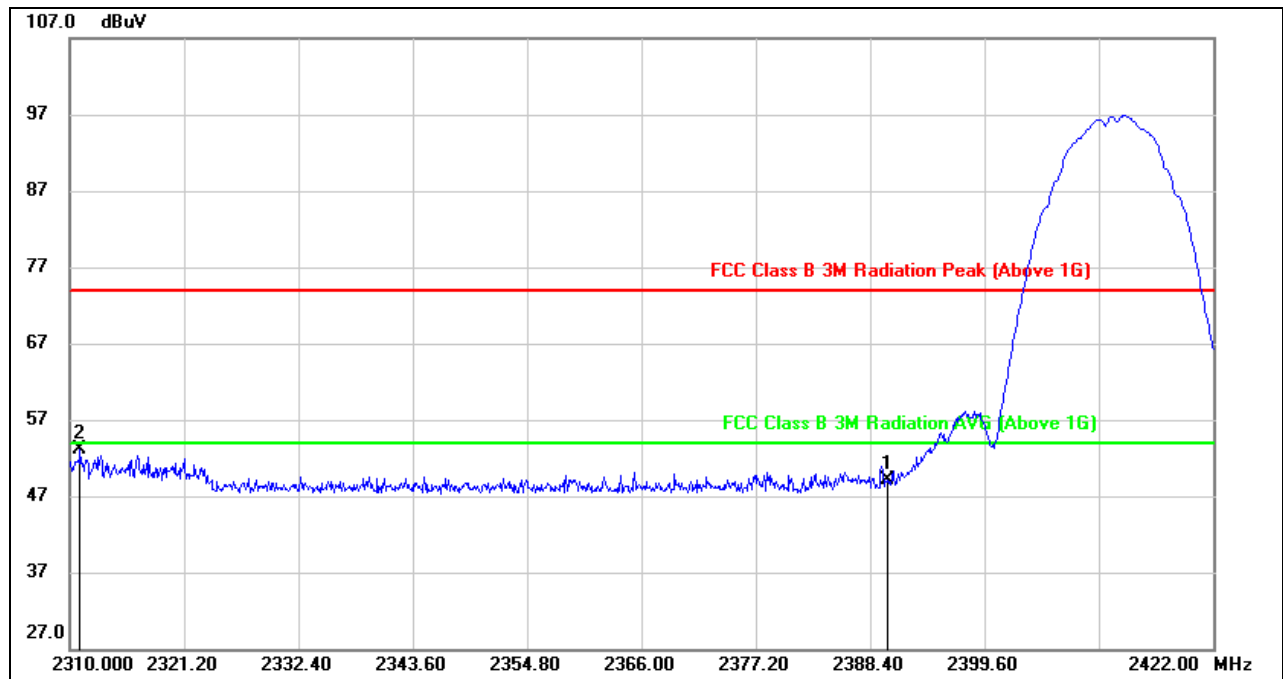
#### RESTRICTED BANDEDGE (CHANNEL1, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2390.000	18.42	33.14	51.56	74.00	-22.44	peak
2	2386.496	20.50	33.17	53.67	74.00	-20.33	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=10Hz.
  5. For transmit duration, please refer to clause 7.1.

**RESTRICTED BANDEDGE (CHANNEL1, VERTICAL)**

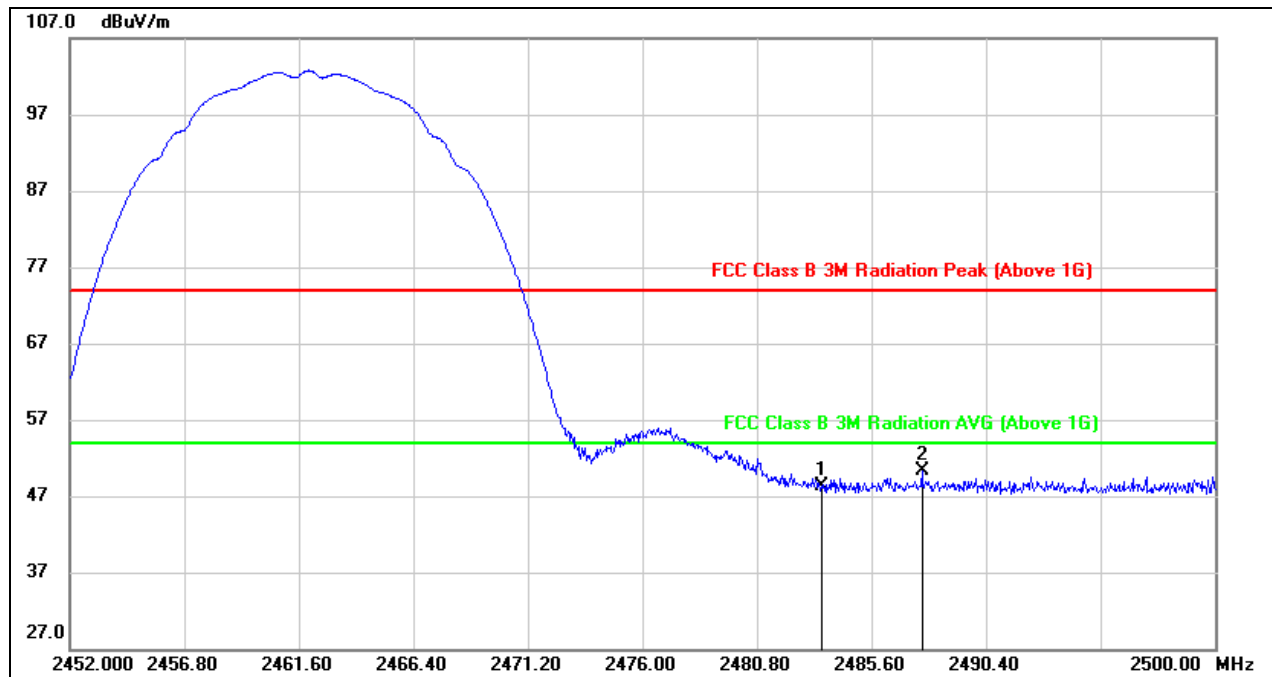


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2390.000	15.85	33.24	49.09	74.00	-24.91	peak
2	2311.008	19.16	33.89	53.05	74.00	-20.95	peak

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.



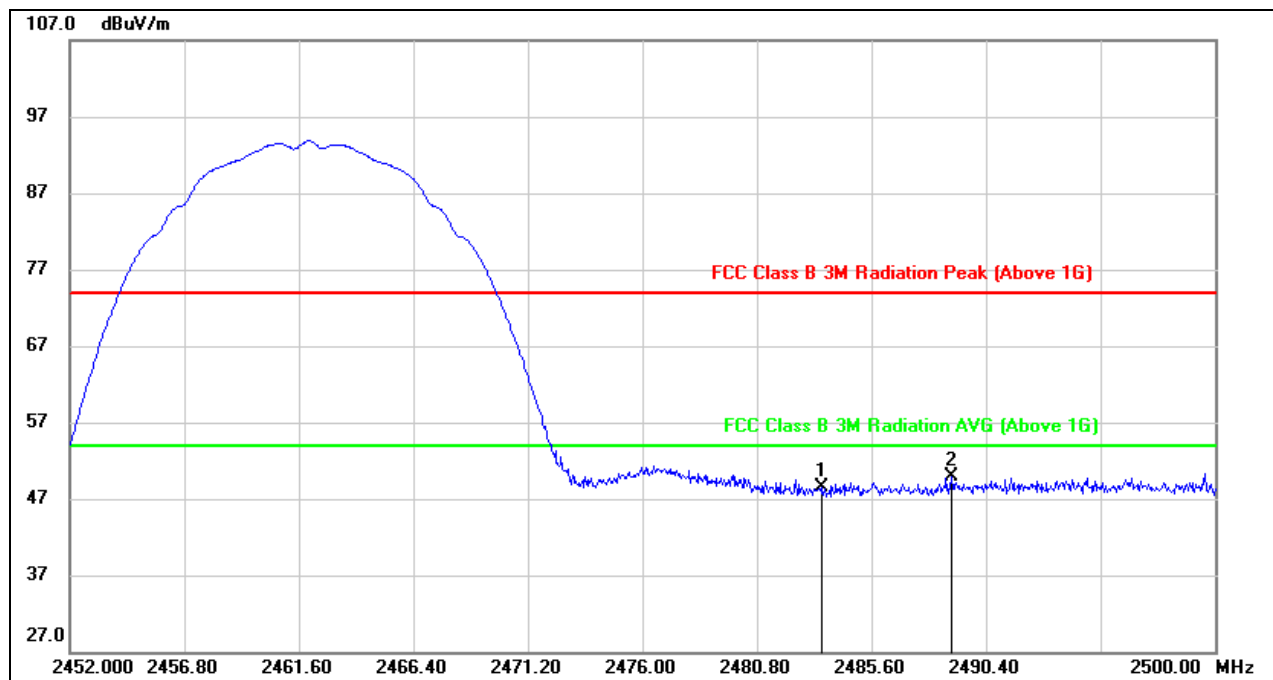
**RESTRICTED BANDEDGE (CHANNEL11, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.55	32.78	48.33	74.00	-25.67	peak
2	2487.712	17.43	32.78	50.21	74.00	-23.79	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=10Hz.
  5. For transmit duration, please refer to clause 7.1.

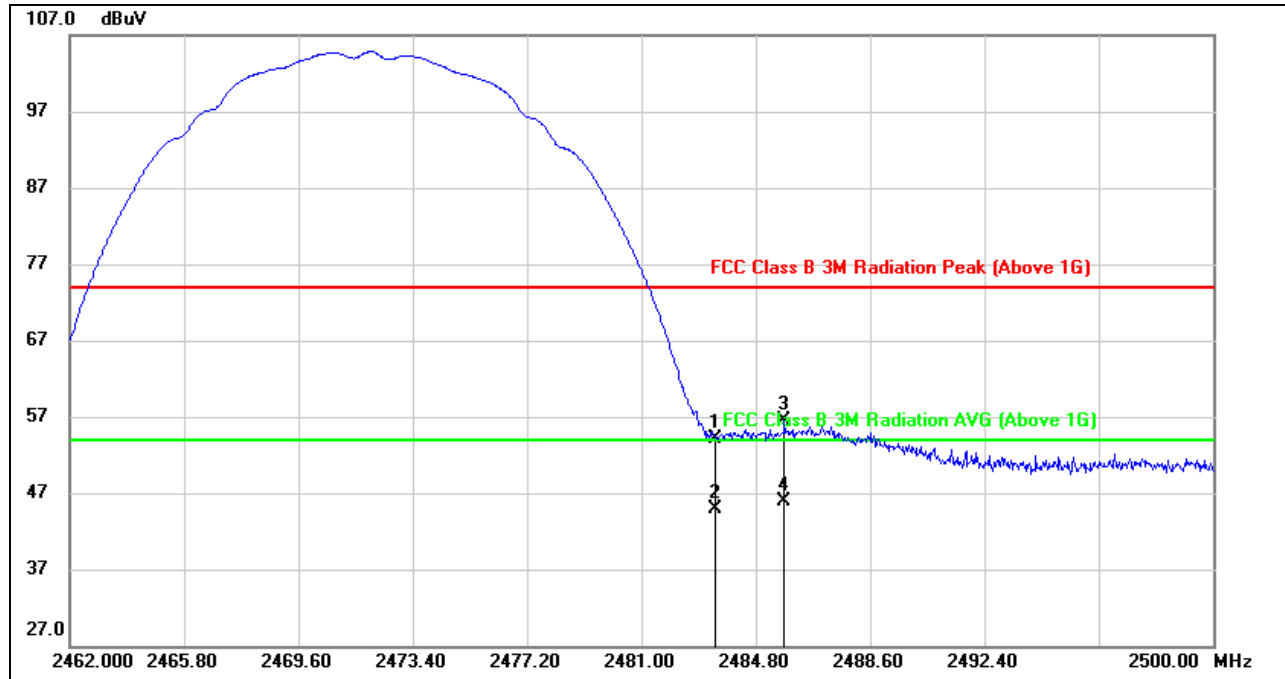
**RESTRICTED BANDEGE (CHANNEL11, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.67	32.88	48.55	74.00	-25.45	peak
2	2488.960	17.03	32.88	49.91	74.00	-24.09	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=10Hz.
  5. For transmit duration, please refer to clause 7.1.

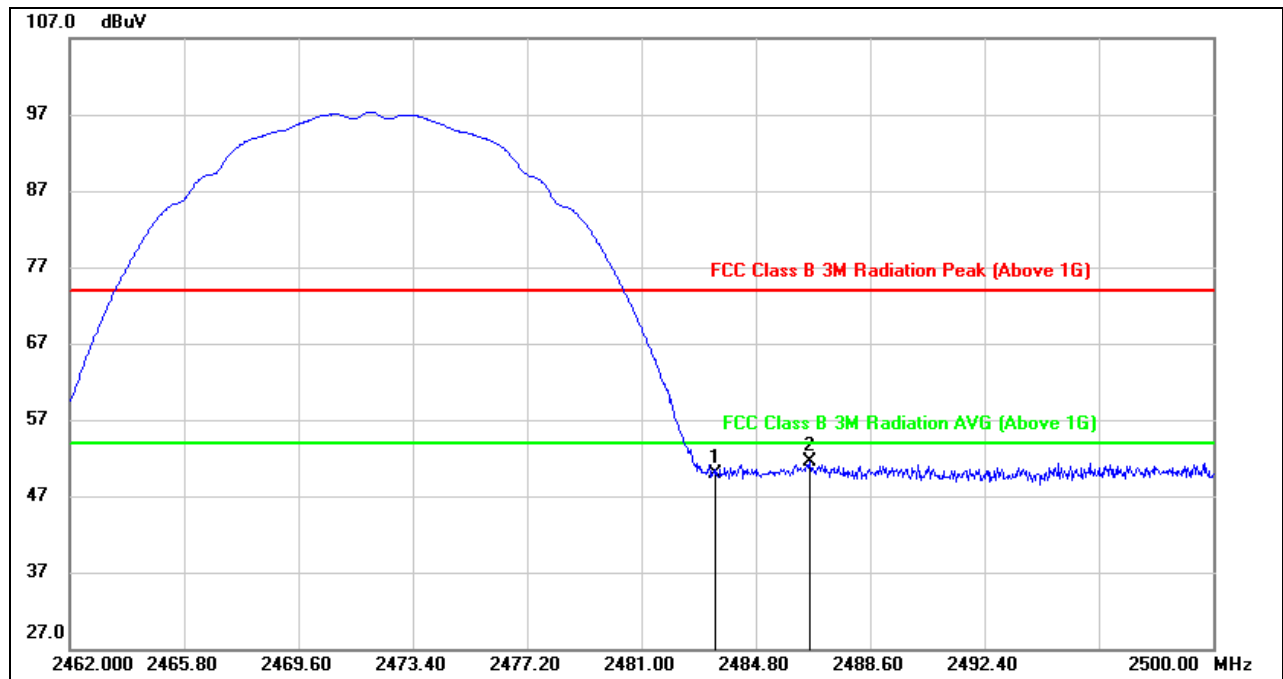
**RESTRICTED BANDEDGE (CHANNEL13, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	21.33	32.78	54.11	74.00	-19.89	peak
2	2483.500	12.06	32.78	44.84	54.00	-9.16	AVG
3	2485.750	23.72	32.79	56.51	74.00	-17.49	peak
4	2485.750	13.21	32.79	46.00	54.00	-8.00	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**RESTRICTED BANDEGE (CHANNEL13, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	17.07	32.88	49.95	74.00	-24.05	peak
2	2486.586	18.63	32.89	51.52	74.00	-22.48	peak

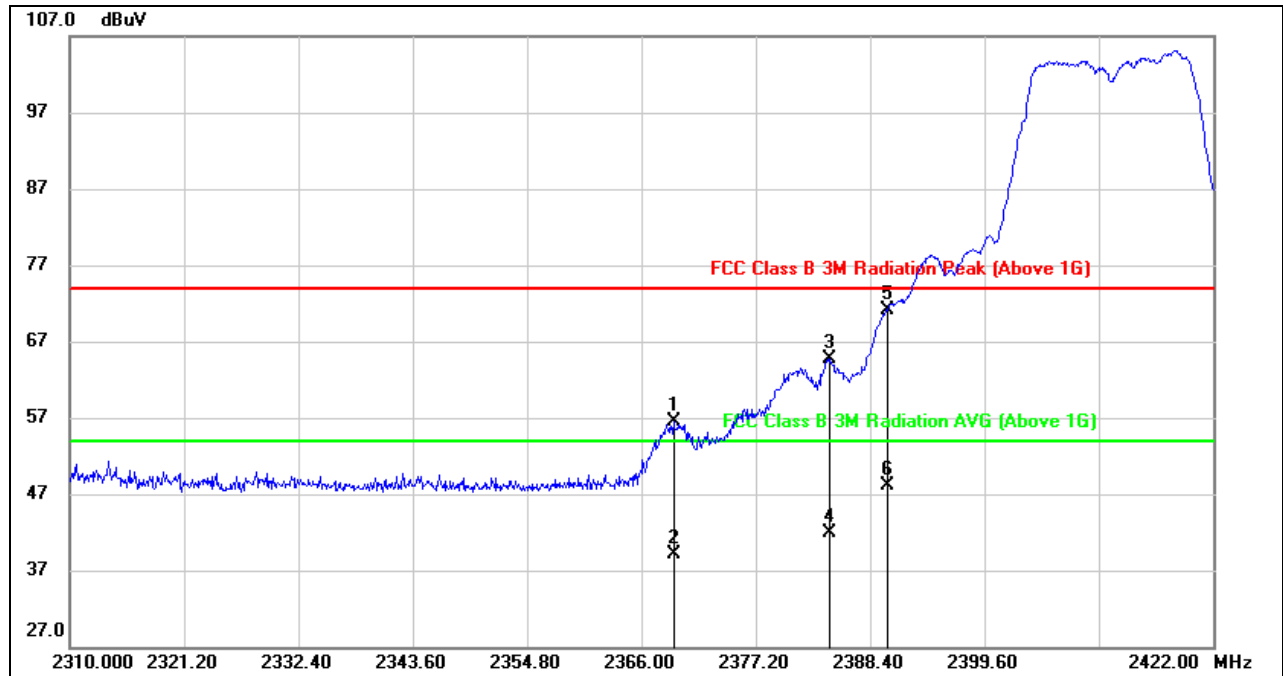
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG: VBW=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

### 8.1.2. 802.11g SISO MODE

#### ANTENNA1 (WORST-CASE CONFIGURATION)

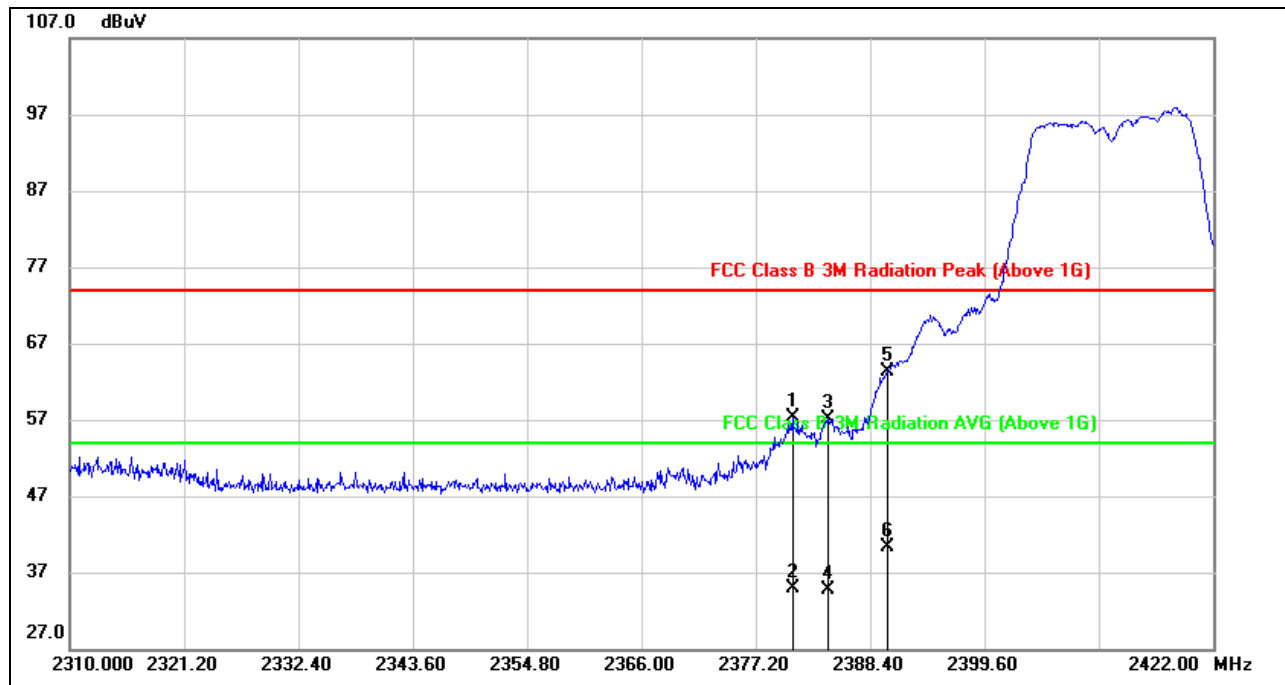
#### RESTRICTED BANDEDGE (CHANNEL1, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2369.136	23.24	33.30	56.54	74.00	-17.46	peak
2	2369.136	5.87	33.30	39.17	54.00	-14.83	AVG
3	2384.480	31.61	33.18	64.79	74.00	-9.21	peak
4	2384.480	8.72	33.18	41.90	54.00	-12.10	AVG
5	2390.000	37.91	33.14	71.05	74.00	-2.95	peak
6	2390.000	15.04	33.14	48.18	54.00	-5.82	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

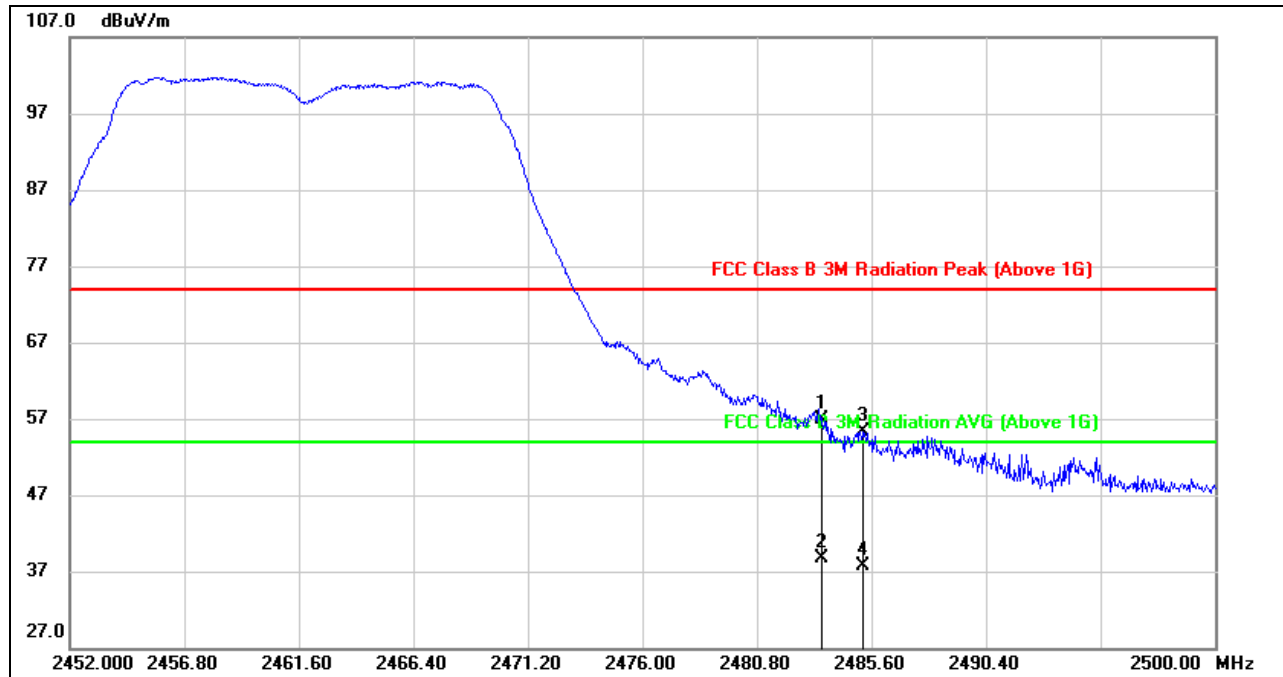
**RESTRICTED BANDEDGE (CHANNEL1, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2380.784	23.92	33.30	57.22	74.00	-16.78	peak
2	2380.784	1.55	33.30	34.85	54.00	-19.15	AVG
3	2384.256	23.78	33.29	57.07	74.00	-16.93	peak
4	2384.256	1.37	33.29	34.66	54.00	-19.34	AVG
5	2390.000	30.04	33.24	63.28	74.00	-10.72	peak
6	2390.000	6.99	33.24	40.23	54.00	-13.77	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

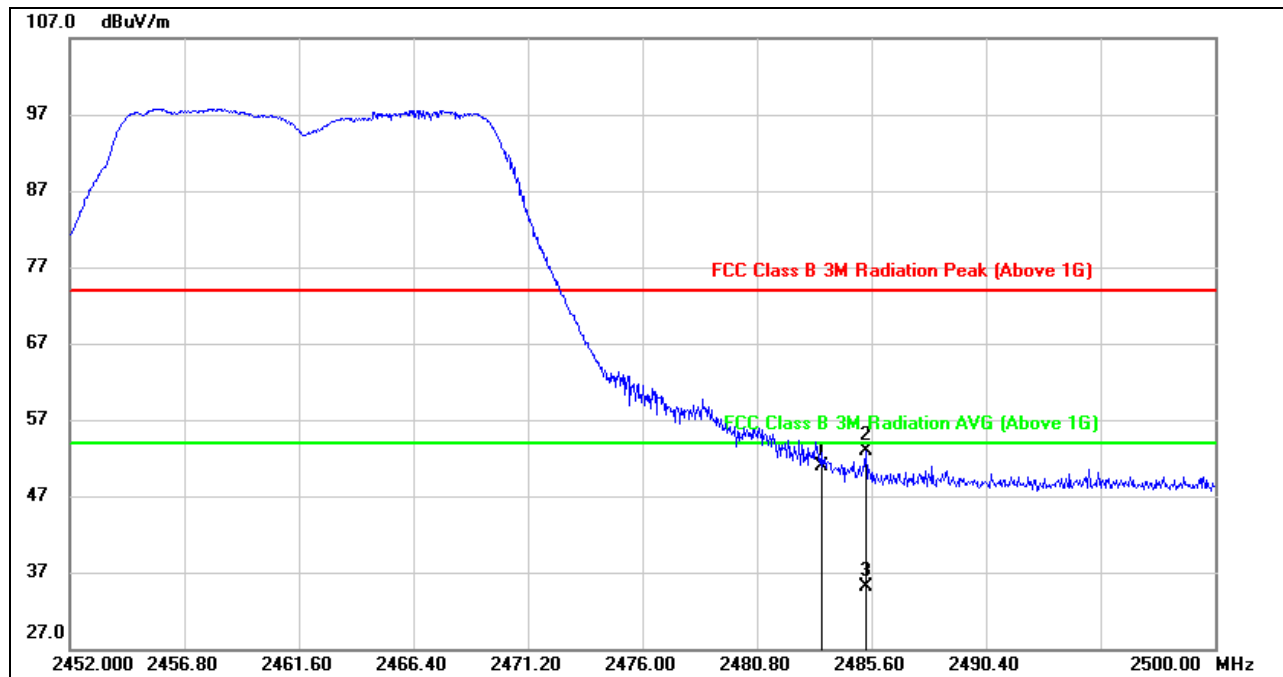
**RESTRICTED BANDEDGE (CHANNEL11, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	24.05	32.78	56.83	74.00	-17.17	peak
2	2483.500	5.94	32.78	38.72	54.00	-15.28	AVG
3	2485.216	22.60	32.79	55.39	74.00	-18.61	peak
4	2485.216	4.93	32.79	37.72	54.00	-16.28	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**RESTRICTED BANDEGE (CHANNEL11, VERTICAL)**

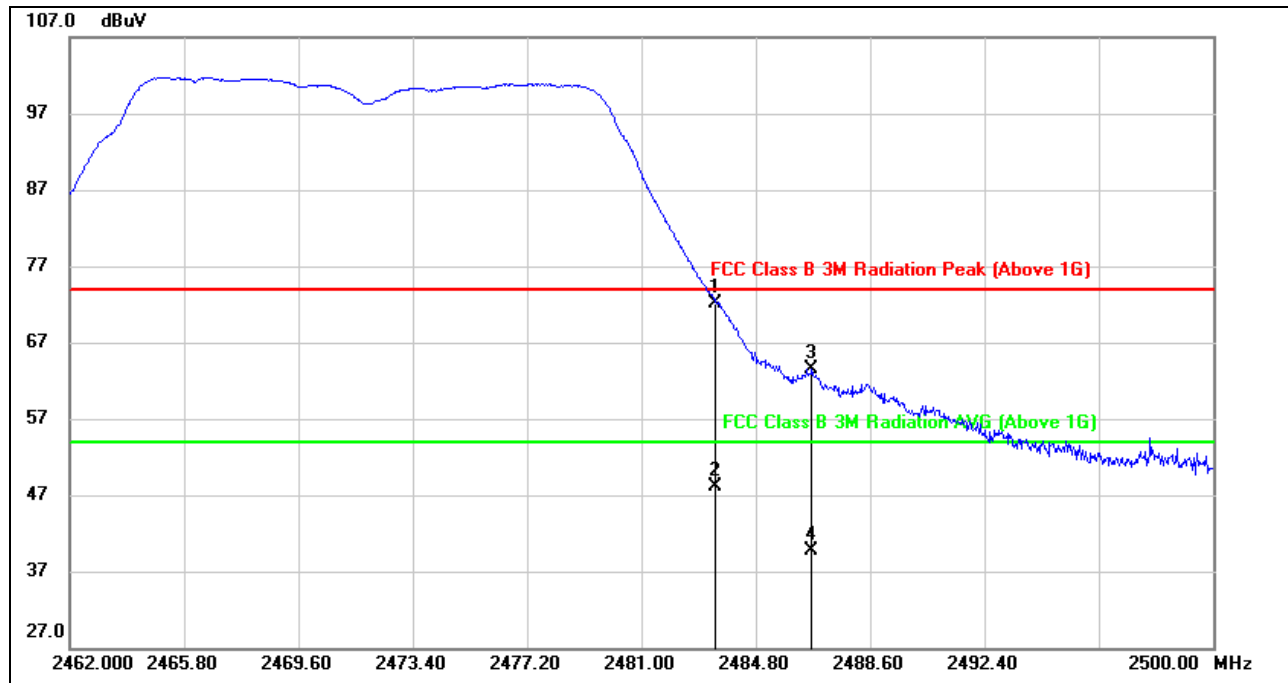


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	18.11	32.88	50.99	74.00	-23.01	peak
2	2485.360	20.01	32.89	52.90	74.00	-21.10	peak
3	2485.360	2.25	32.89	35.14	54.00	-18.86	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.



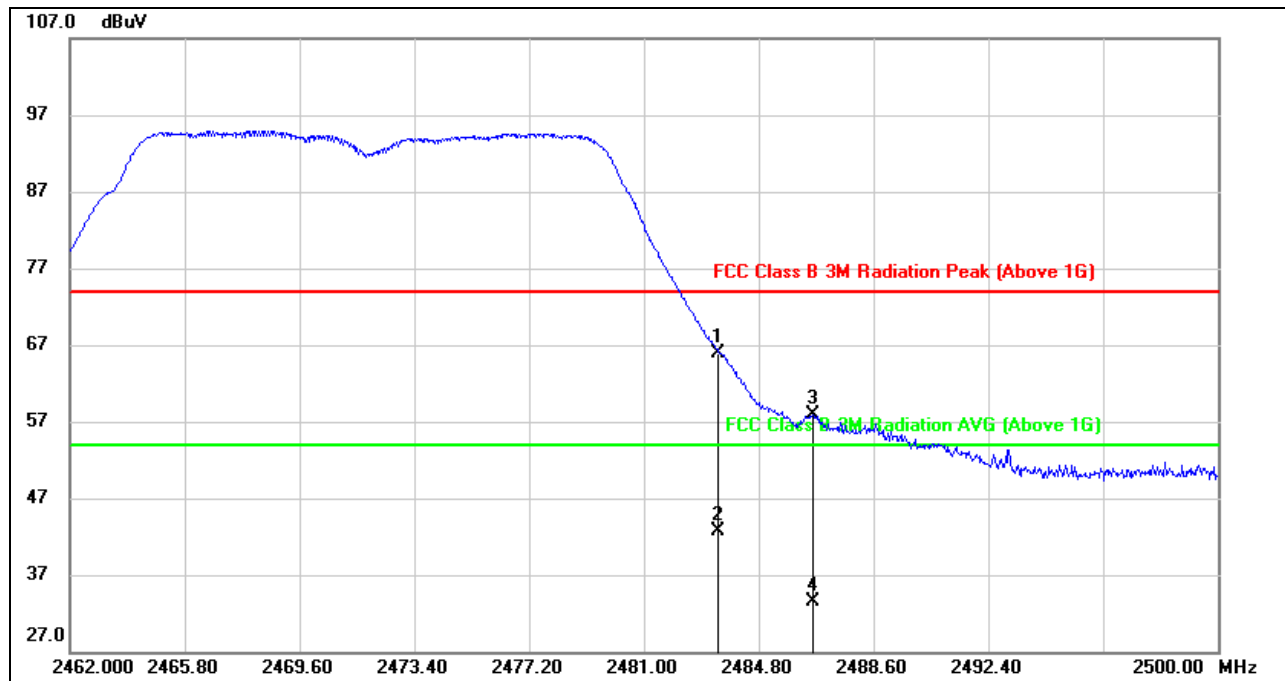
**RESTRICTED BANDEDGE (CHANNEL13, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	39.37	32.78	72.15	74.00	-1.85	peak
2	2483.500	15.36	32.78	48.14	54.00	-5.86	AVG
3	2486.662	30.64	32.79	63.43	74.00	-10.57	peak
4	2486.662	6.89	32.79	39.68	54.00	-14.32	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**RESTRICTED BANDEGE (CHANNEL13, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	33.04	32.88	65.92	74.00	-8.08	peak
2	2483.500	9.81	32.88	42.69	54.00	-11.31	AVG
3	2486.586	25.01	32.89	57.90	74.00	-16.10	peak
4	2486.586	0.68	32.89	33.57	54.00	-20.43	AVG

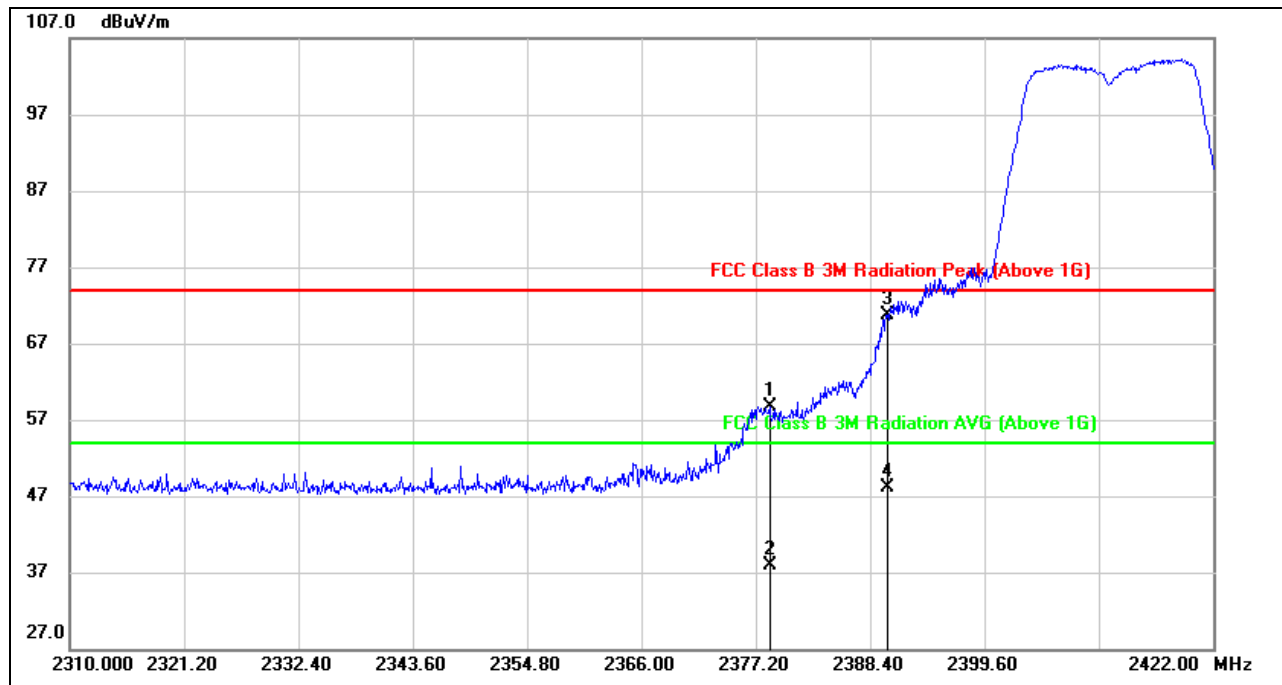
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG: VBW=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

### 8.1.1. 802.11n20 CDD MODE

#### ANTENNA1 (WORST-CASE CONFIGURATION)

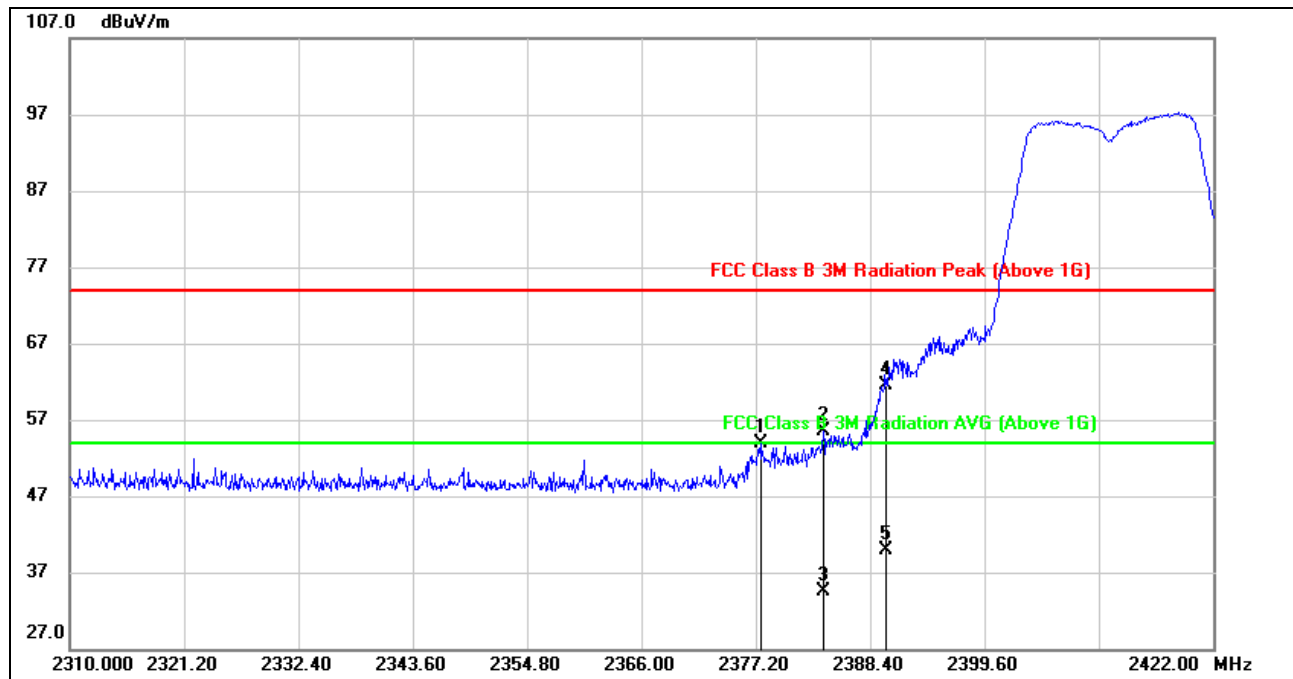
#### RESTRICTED BANDEDGE (CH1, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2378.544	25.55	33.22	58.77	74.00	-15.23	peak
2	2378.544	4.68	33.22	37.90	54.00	-16.10	AVG
3	2390.000	37.55	33.14	70.69	74.00	-3.31	peak
4	2390.000	15.03	33.14	48.17	54.00	-5.83	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

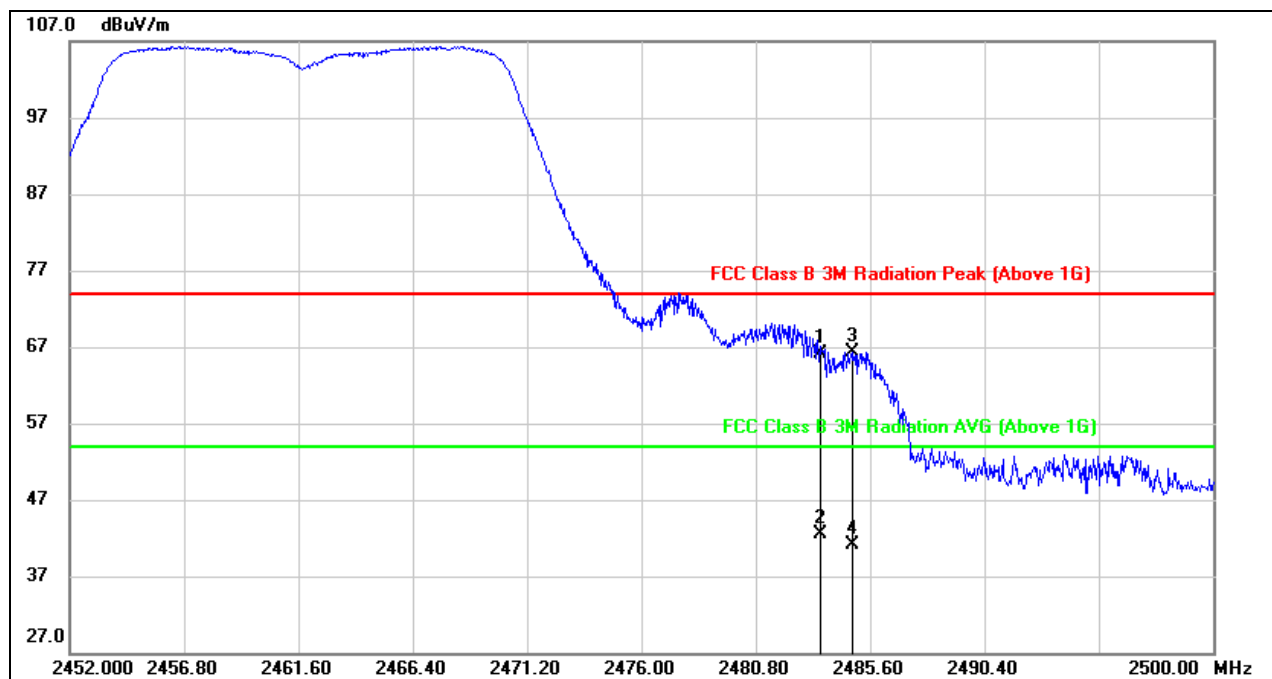
**RESTRICTED BANDEGE (CH1, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2377.648	20.52	33.33	53.85	74.00	-20.15	peak
2	2383.808	22.29	33.29	55.58	74.00	-18.42	peak
3	2383.808	1.15	33.29	34.44	54.00	-19.56	AVG
4	2390.000	28.23	33.24	61.47	74.00	-12.53	peak
5	2390.000	6.74	33.24	39.98	54.00	-14.02	AVG

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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

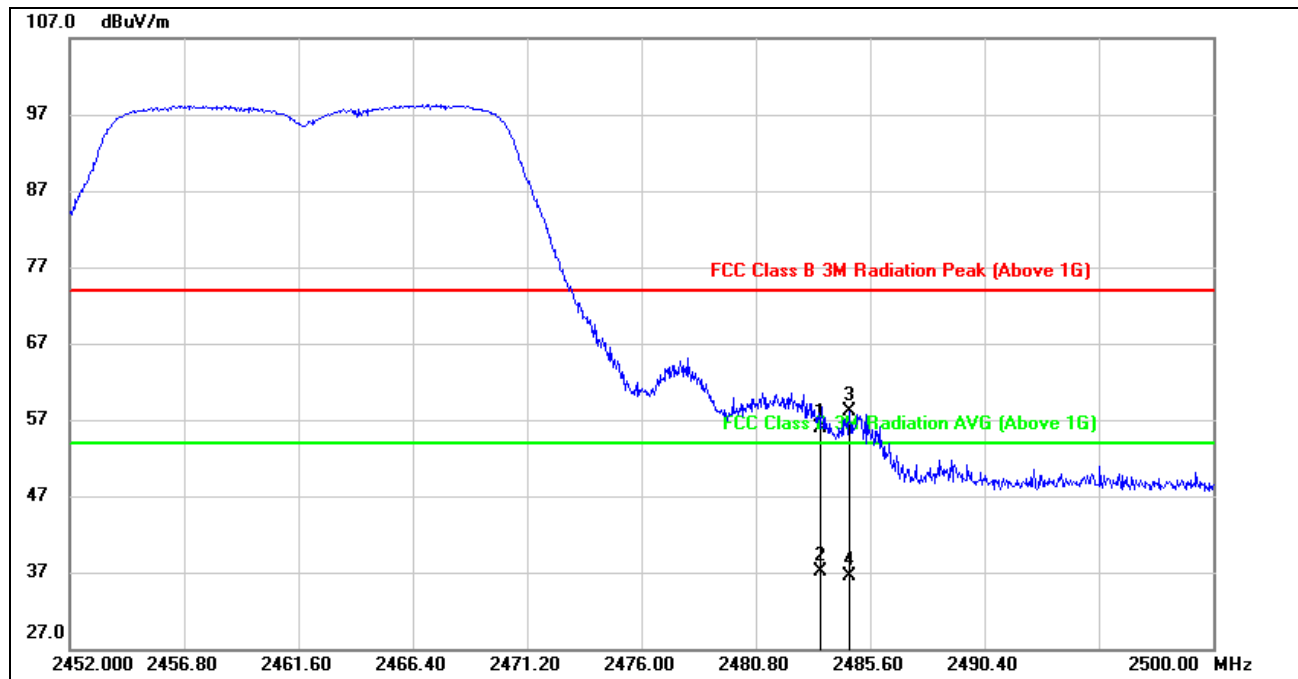
**RESTRICTED BANDEDGE (CH11, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	33.24	32.78	66.02	74.00	-7.98	peak
2	2483.500	9.79	32.78	42.57	54.00	-11.43	AVG
3	2484.880	33.60	32.78	66.38	74.00	-7.62	peak
4	2484.880	8.37	32.78	41.15	54.00	-12.85	AVG

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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**RESTRICTED BANDEDGE (CH11, VERTICAL)**

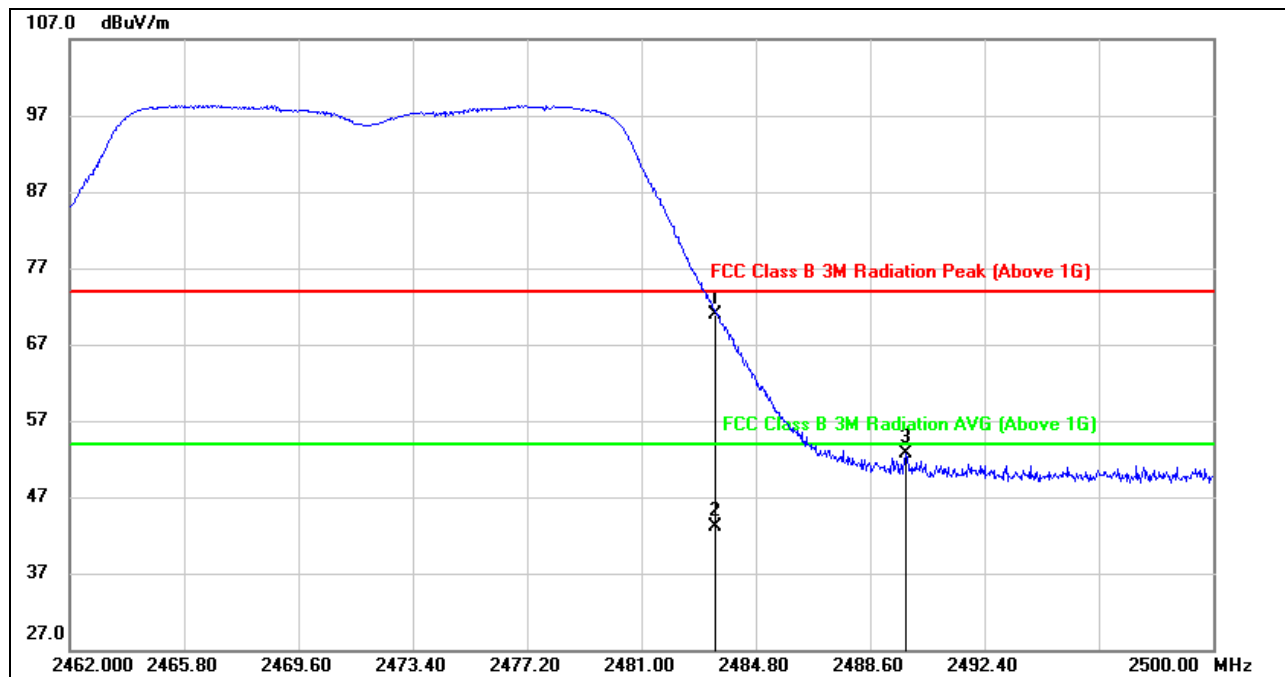


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	22.94	32.88	55.82	74.00	-18.18	peak
2	2483.500	4.15	32.88	37.03	54.00	-16.97	AVG
3	2484.736	25.14	32.88	58.02	74.00	-15.98	peak
4	2484.736	3.64	32.88	36.52	54.00	-17.48	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

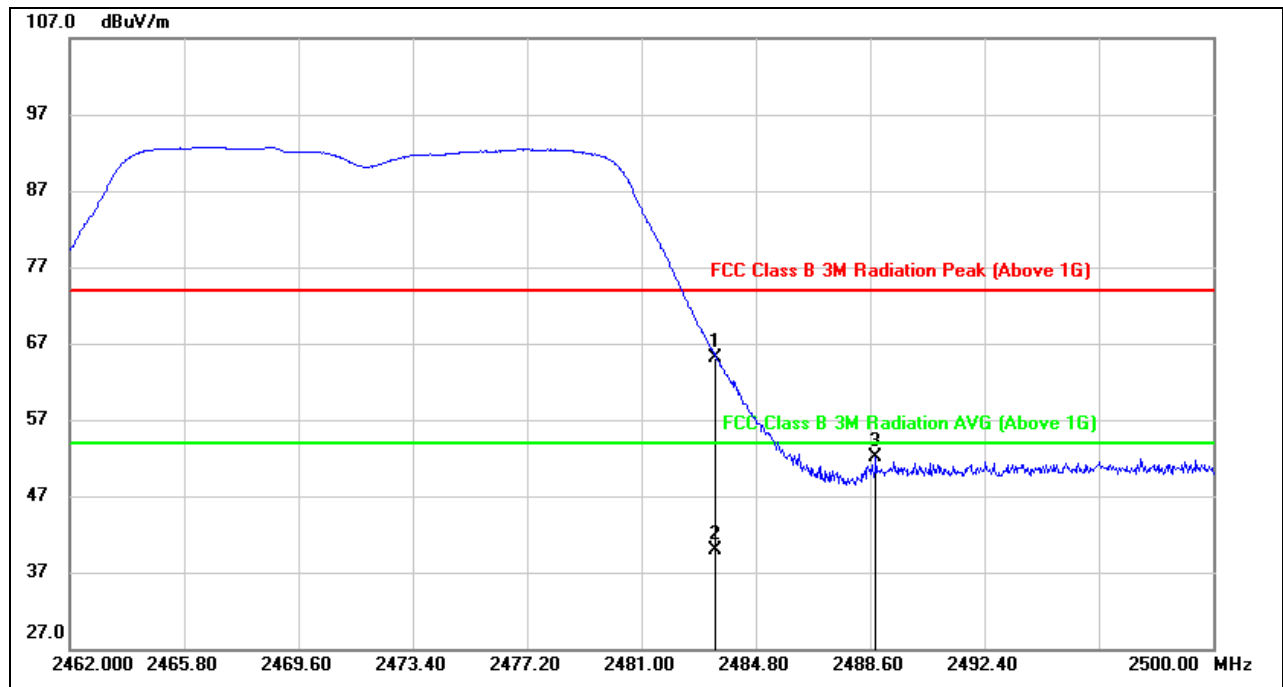
**RESTRICTED BANDEDGE (CH13, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.07	32.78	70.85	74.00	-3.15	peak
2	2483.500	10.23	32.78	43.01	54.00	-10.99	AVG
3	2489.778	19.91	32.78	52.69	74.00	-21.31	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**RESTRICTED BANDEDGE (CH13, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	32.13	32.88	65.01	74.00	-8.99	peak
2	2483.500	7.03	32.88	39.91	54.00	-14.09	AVG
3	2488.790	19.19	32.88	52.07	74.00	-21.93	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

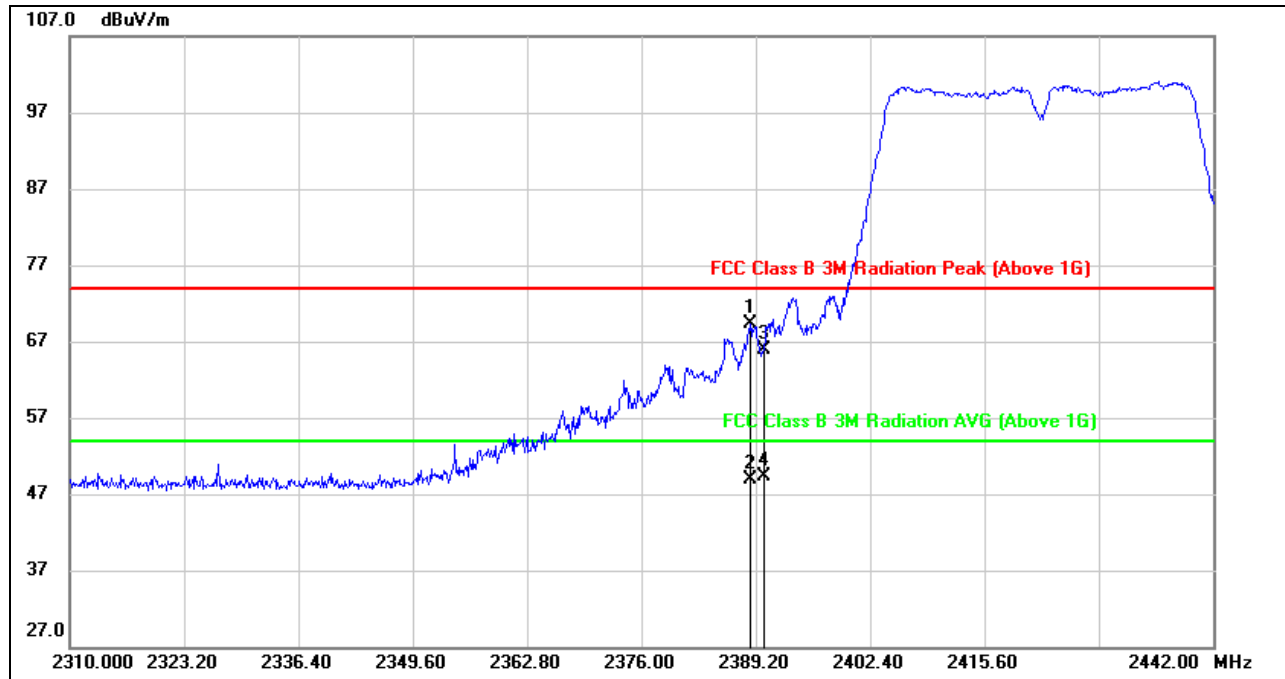
Note: All the antennas had been tested, but only the worst data record in the report.



### 8.1.1. 802.11n40 CDD MODE

#### ANTENNA1 (WORST-CASE CONFIGURATION)

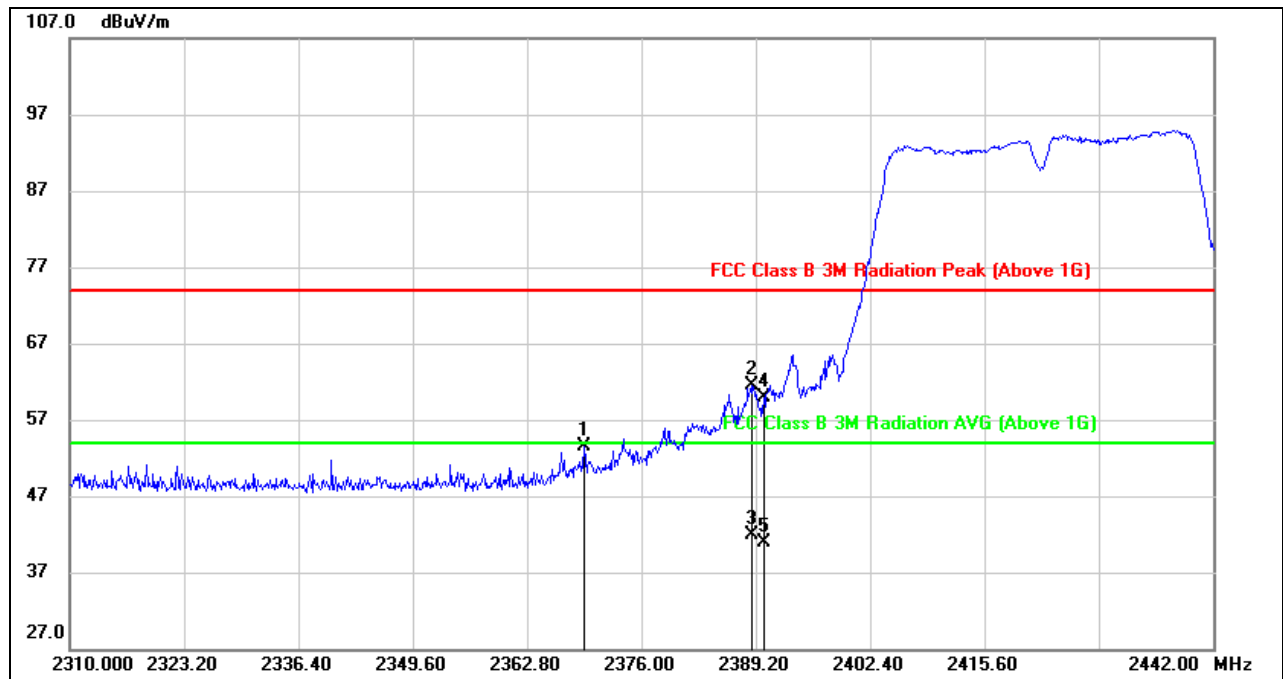
#### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.540	36.20	33.15	69.35	74.00	-4.65	peak
2	2388.540	15.84	33.15	48.99	54.00	-5.01	AVG
3	2390.000	32.71	33.14	65.85	74.00	-8.15	peak
4	2390.000	16.18	33.14	49.32	54.00	-4.68	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

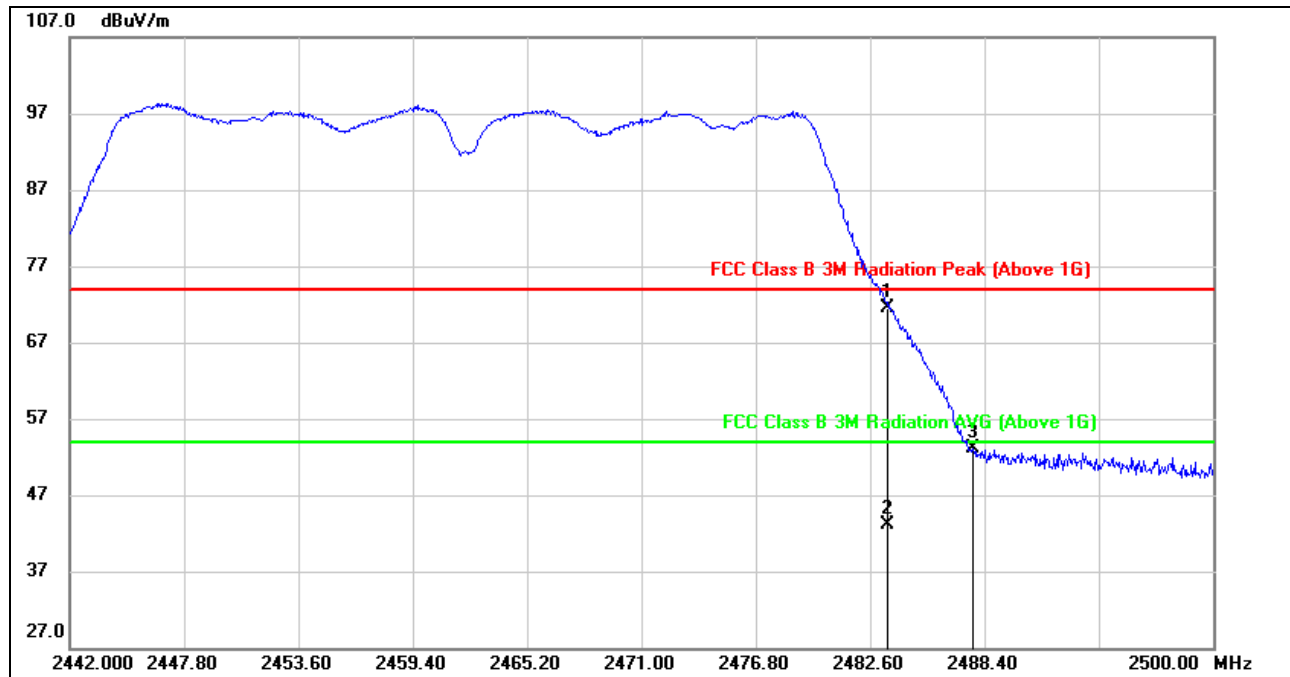
**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2369.400	20.17	33.39	53.56	74.00	-20.44	peak
2	2388.804	28.29	33.25	61.54	74.00	-12.46	peak
3	2388.804	8.65	33.25	41.90	54.00	-12.10	AVG
4	2390.000	26.69	33.24	59.93	74.00	-14.07	peak
5	2390.000	7.60	33.24	40.84	54.00	-13.16	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

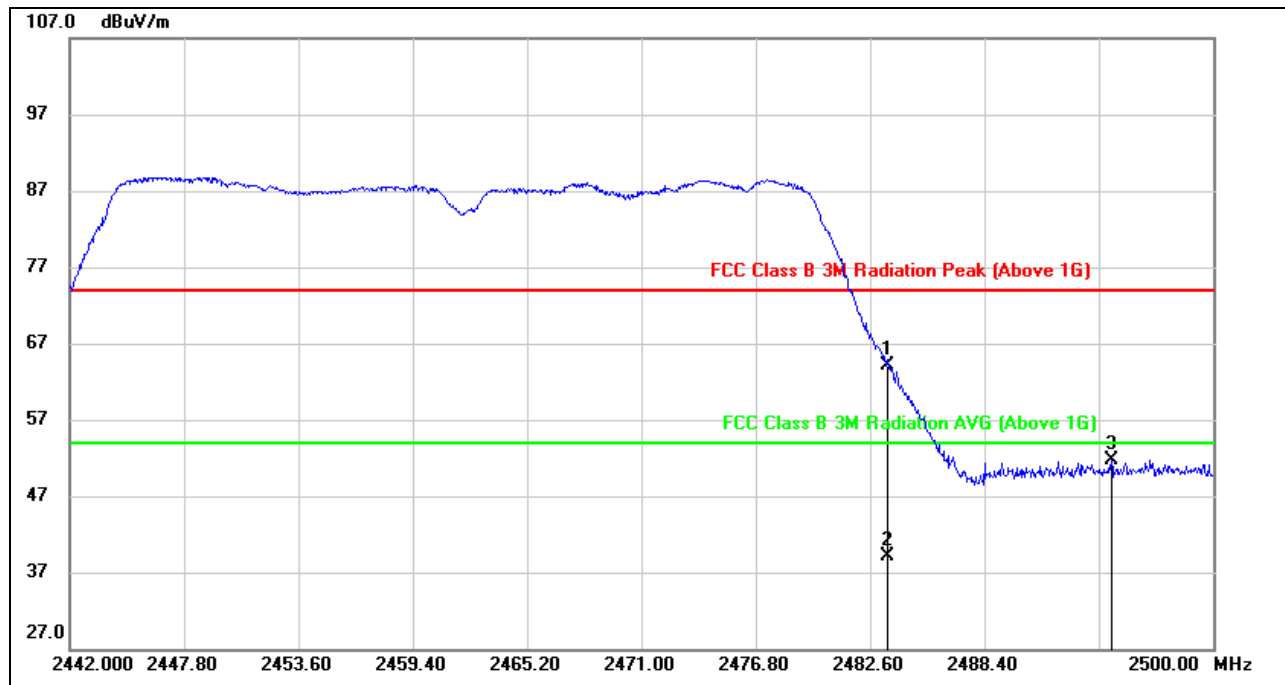
**RESTRICTED BANDEGE (HIGH CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.76	32.78	71.54	74.00	-2.46	peak
2	2483.500	10.37	32.78	43.15	54.00	-10.85	AVG
3	2487.820	20.29	32.78	53.07	74.00	-20.93	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	31.28	32.88	64.16	74.00	-9.84	peak
2	2483.500	6.30	32.88	39.18	54.00	-14.82	AVG
3	2494.838	18.86	32.87	51.73	74.00	-22.27	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. AVG: VBW=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

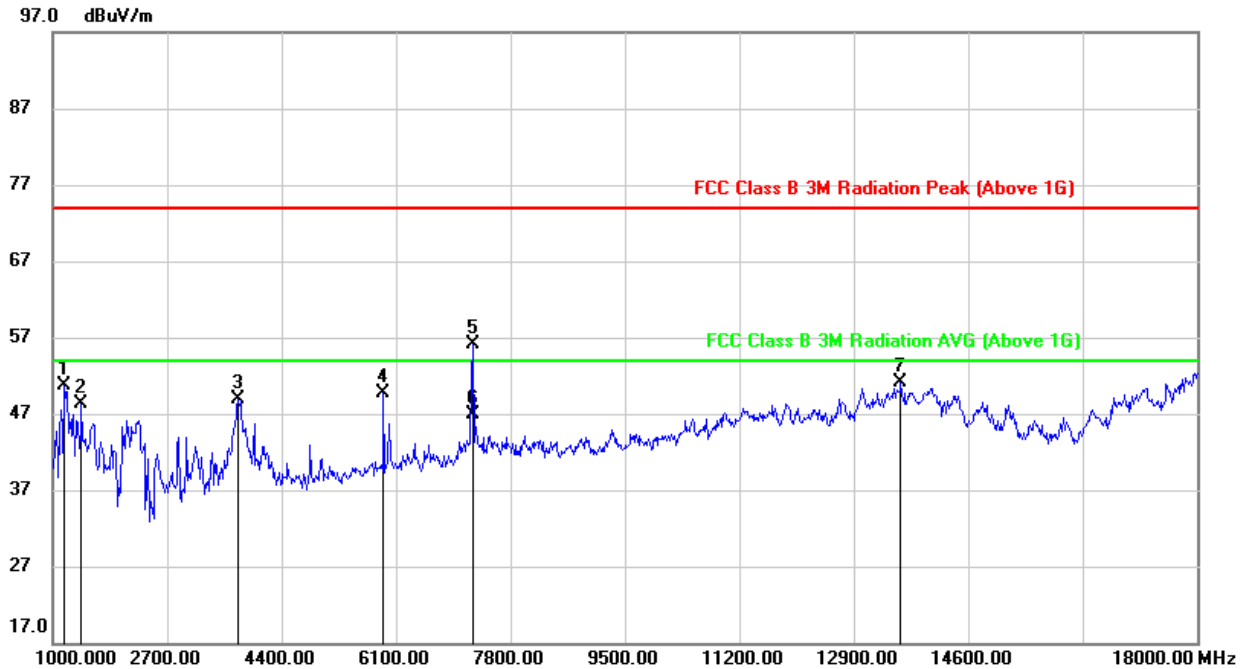
Note: All the antennas had been tested, but only the worst data record in the report.

## 8.2. SPURIOUS EMISSIONS (1~18GHz)

### 8.2.1. 802.11b SISO MODE

#### ANTENNA1 (WORST-CASE CONFIGURATION)

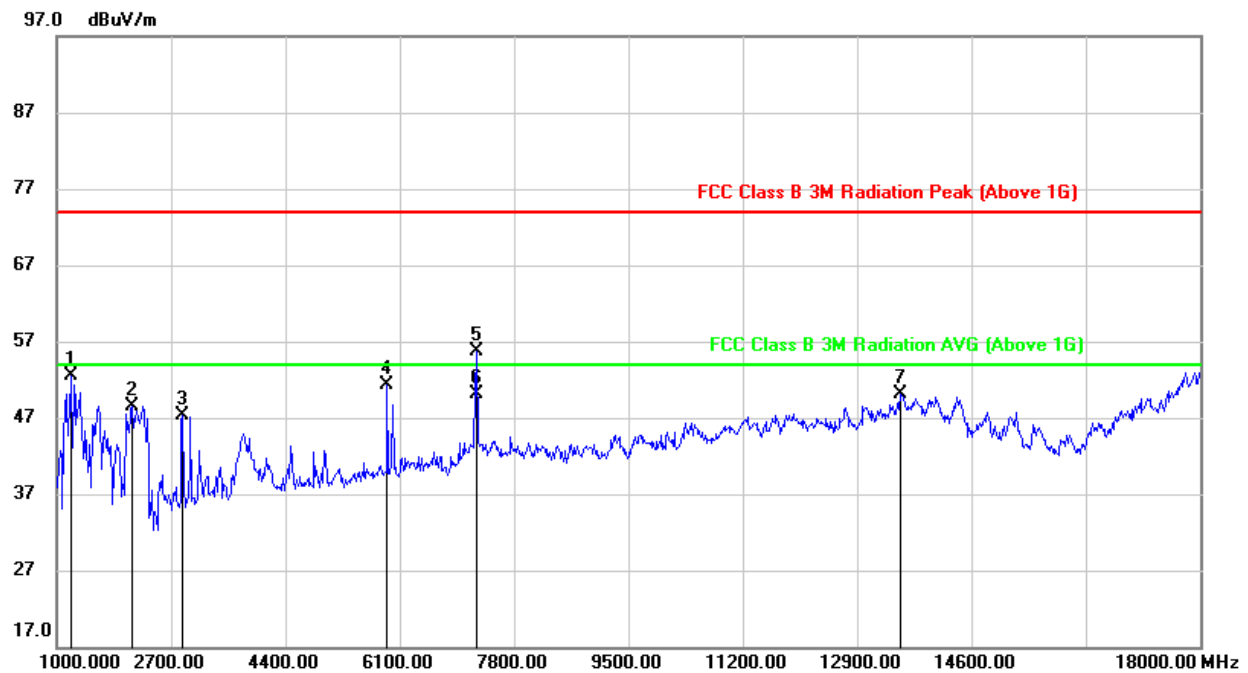
#### HARMONICS AND SPURIOUS EMISSIONS (CHANNEL1, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1170.000	64.41	-13.66	50.75	74.00	-23.25	peak
2	1425.000	61.03	-12.68	48.35	74.00	-25.65	peak
3	3754.000	53.63	-4.79	48.84	74.00	-25.16	peak
4	5913.000	48.15	1.48	49.63	74.00	-24.37	peak
5	7239.000	50.15	5.91	56.06	74.00	-17.94	peak
6	7239.000	41.05	5.91	46.96	54.00	-7.04	AVG
7	13597.000	32.13	19.03	51.16	74.00	-22.84	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL1, VERTICAL)**

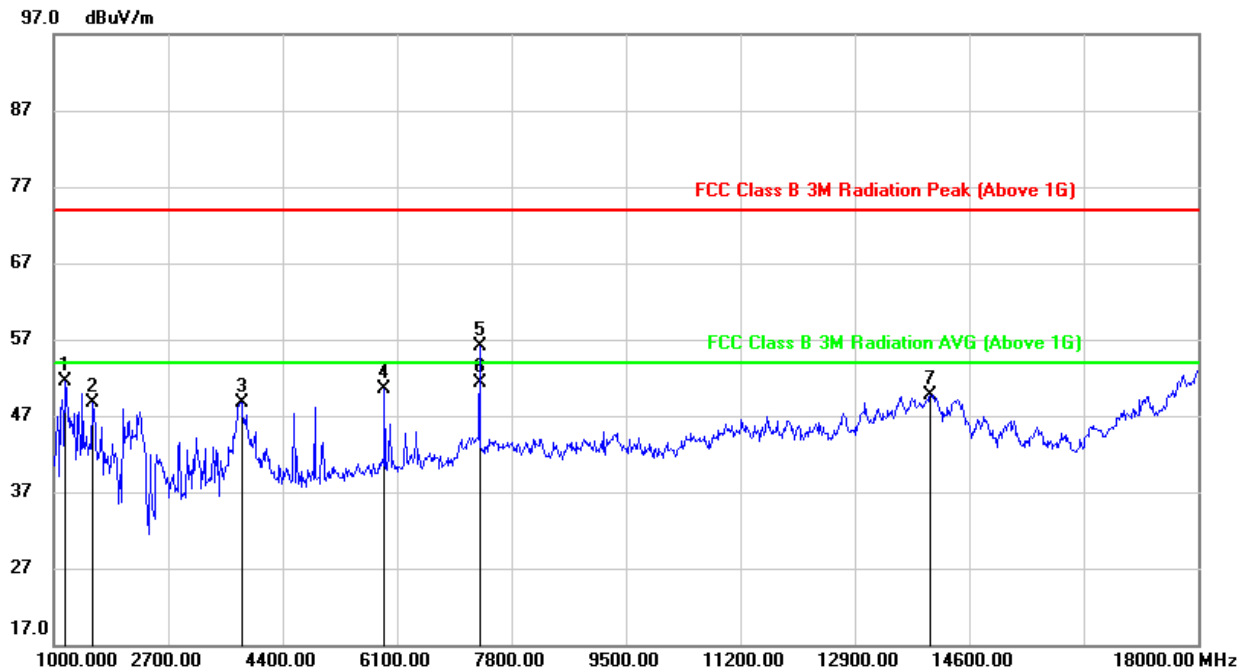


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1221.000	65.98	-13.38	52.60	74.00	-21.40	peak
2	2122.000	58.48	-10.03	48.45	74.00	-25.55	peak
3	2870.000	54.55	-7.26	47.29	74.00	-26.71	peak
4	5913.000	49.71	1.58	51.29	74.00	-22.71	peak
5	7239.000	49.86	5.85	55.71	74.00	-18.29	peak
6	7239.000	44.30	5.85	50.15	54.00	-3.85	AVG
7	13546.000	30.71	19.38	50.09	74.00	-23.91	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

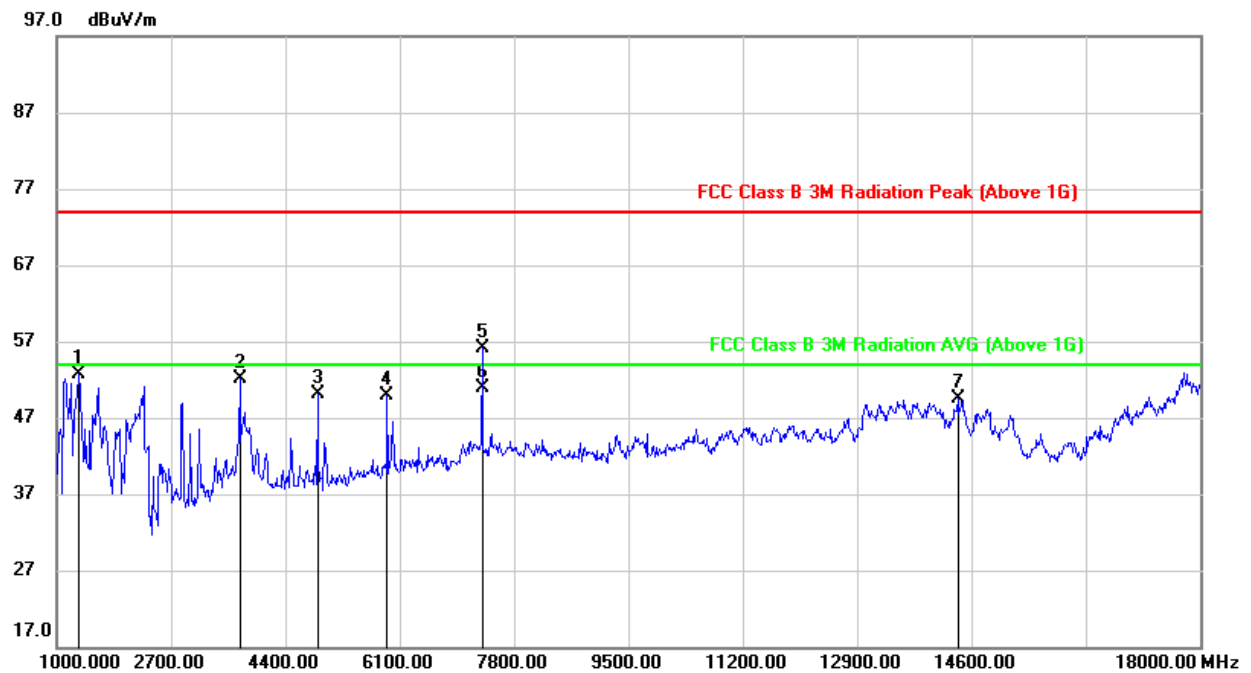
**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL7, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1170.000	65.07	-13.66	51.41	74.00	-22.59	peak
2	1578.000	61.47	-12.80	48.67	74.00	-25.33	peak
3	3788.000	53.51	-4.75	48.76	74.00	-25.24	peak
4	5913.000	48.94	1.48	50.42	74.00	-23.58	peak
5	7324.000	50.29	5.72	56.01	74.00	-17.99	peak
6	7324.000	45.50	5.72	51.22	54.00	-2.78	AVG
7	14022.000	30.93	18.87	49.80	74.00	-24.20	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL7, VERTICAL)**



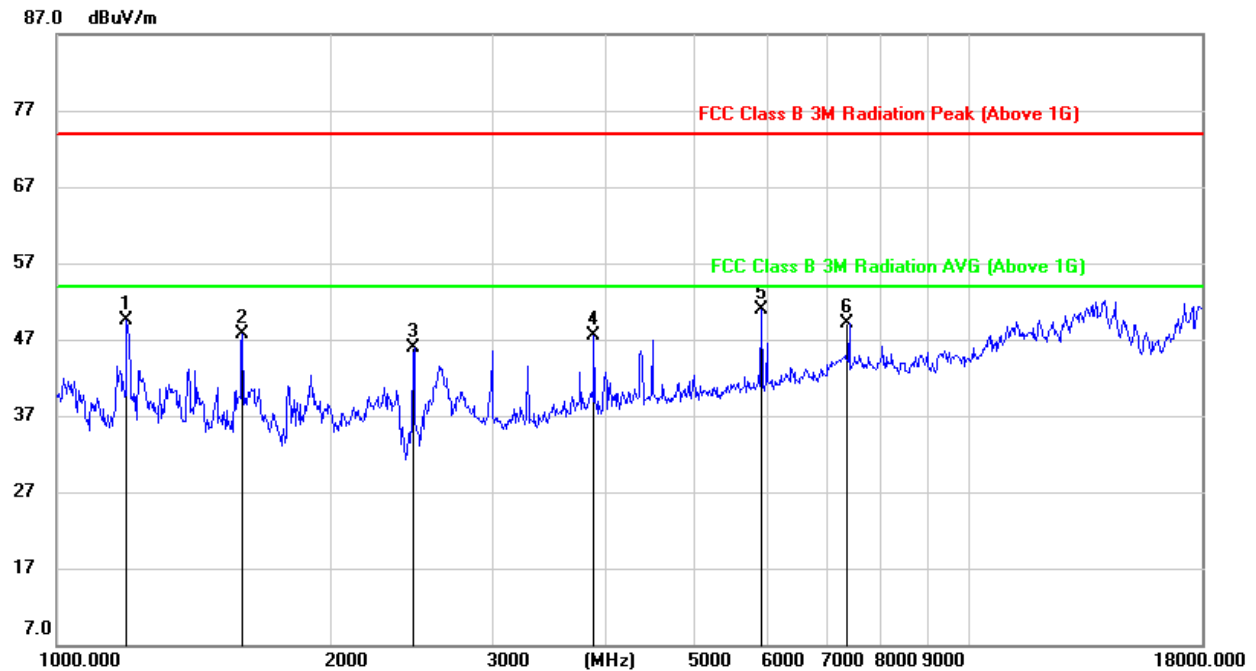
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1323.000	65.66	-12.93	52.73	74.00	-21.27	peak
2	3720.000	57.00	-4.83	52.17	74.00	-21.83	peak
3	4876.000	51.03	-0.98	50.05	74.00	-23.95	peak
4	5913.000	48.31	1.58	49.89	74.00	-24.11	peak
5	7324.000	50.30	5.77	56.07	74.00	-17.93	peak
6	7324.000	45.17	5.77	50.94	54.00	-3.06	AVG
7	14396.000	30.89	18.60	49.49	74.00	-24.51	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.



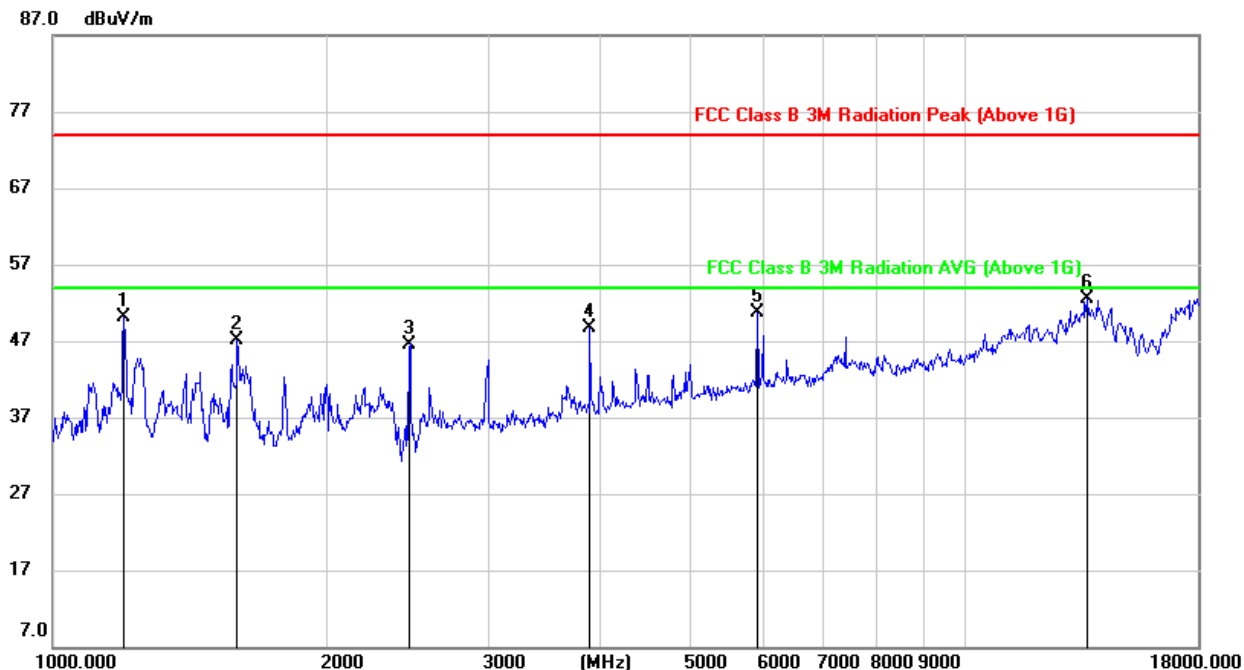
**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL11, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1192.811	63.09	-13.52	49.57	74.00	-24.43	peak
2	1597.181	60.45	-12.70	47.75	74.00	-26.25	peak
3	2464.024	55.12	-9.21	45.91	74.00	-28.09	peak
4	3879.027	52.05	-4.53	47.52	74.00	-26.48	peak
5	5915.515	49.45	1.51	50.96	74.00	-23.04	peak
6	7390.070	43.90	5.27	49.17	74.00	-24.83	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=10Hz.
  5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL11, VERTICAL)**

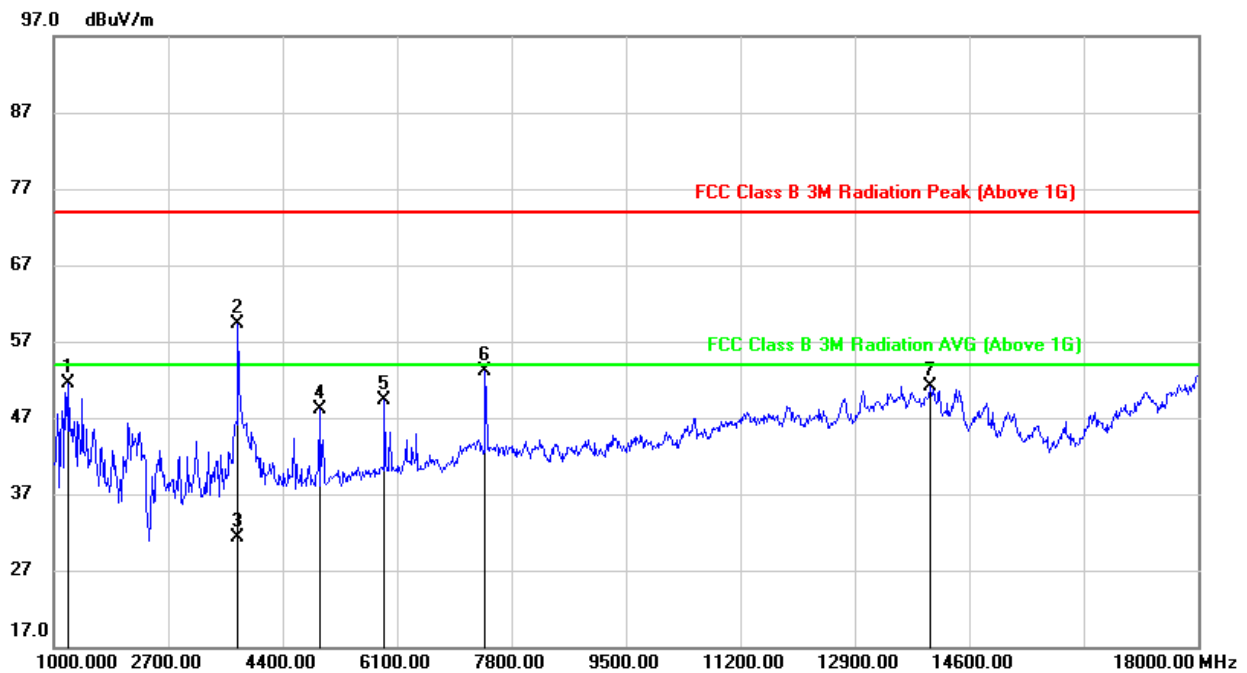


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1196.264	63.76	-13.61	50.15	74.00	-23.85	peak
2	1592.571	59.82	-12.71	47.11	74.00	-26.89	peak
3	2464.024	55.71	-9.11	46.60	74.00	-27.40	peak
4	3879.027	53.13	-4.37	48.76	74.00	-25.24	peak
5	5915.515	49.16	1.61	50.77	74.00	-23.23	peak
6	13599.128	33.58	18.85	52.43	74.00	-21.57	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

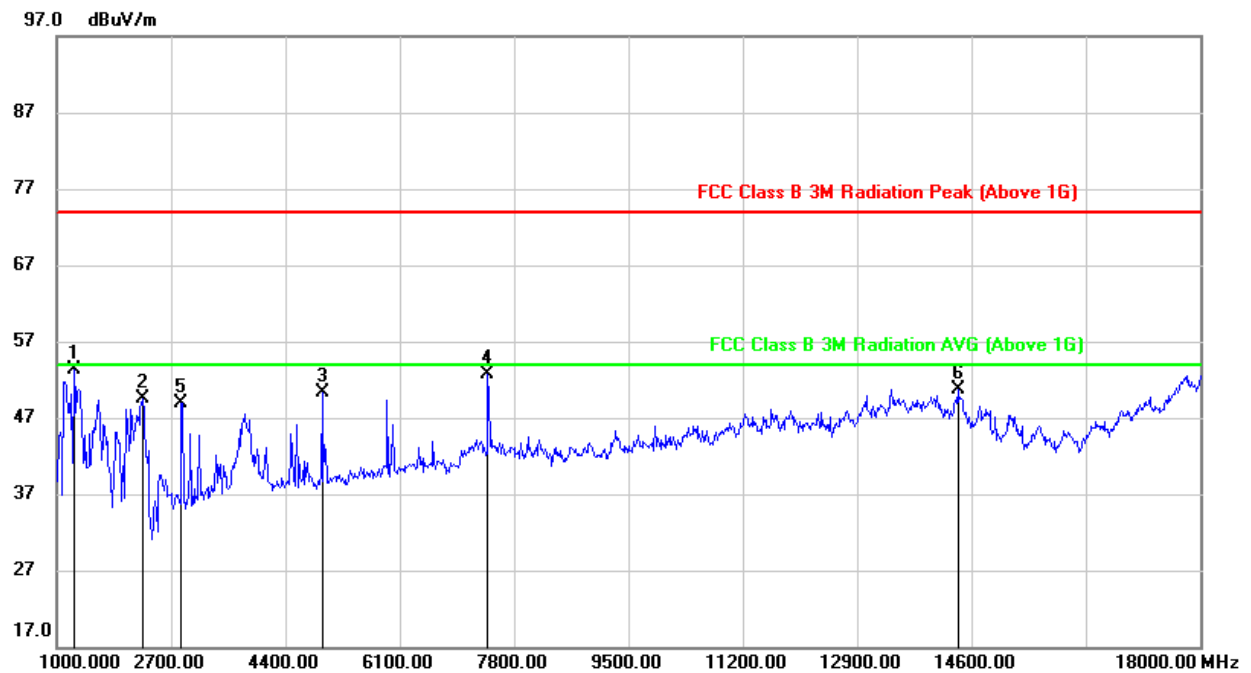
**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL13, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1221.000	64.80	-13.37	51.43	74.00	-22.57	peak
2	3737.000	64.07	-4.83	59.24	74.00	-14.76	peak
3	3737.000	36.09	-4.83	31.26	54.00	-22.74	AVG
4	4944.000	48.92	-0.75	48.17	74.00	-25.83	peak
5	5913.000	47.90	1.48	49.38	74.00	-24.62	peak
6	7409.000	47.84	5.32	53.16	74.00	-20.84	peak
7	14022.000	32.26	18.87	51.13	74.00	-22.87	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL13, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1255.000	66.38	-13.10	53.28	74.00	-20.72	peak
2	2275.000	57.80	-8.24	49.56	74.00	-24.44	peak
3	4944.000	51.09	-0.76	50.33	74.00	-23.67	peak
4	7409.000	47.37	5.34	52.71	74.00	-21.29	peak
5	2853.000	56.28	-7.32	48.96	74.00	-25.04	peak
6	14396.000	32.15	18.60	50.75	74.00	-23.25	peak

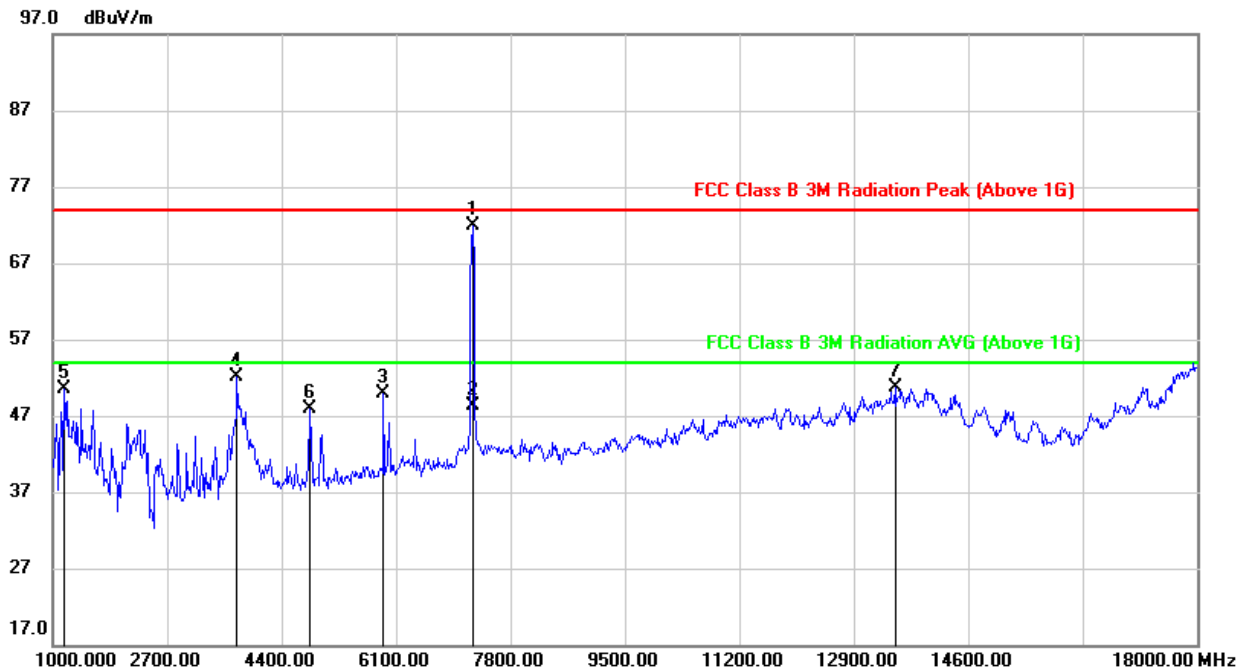
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG: VBW=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

### 8.2.1. 802.11g SISO MODE

#### ANTENNA1 (WORST-CASE CONFIGURATION)

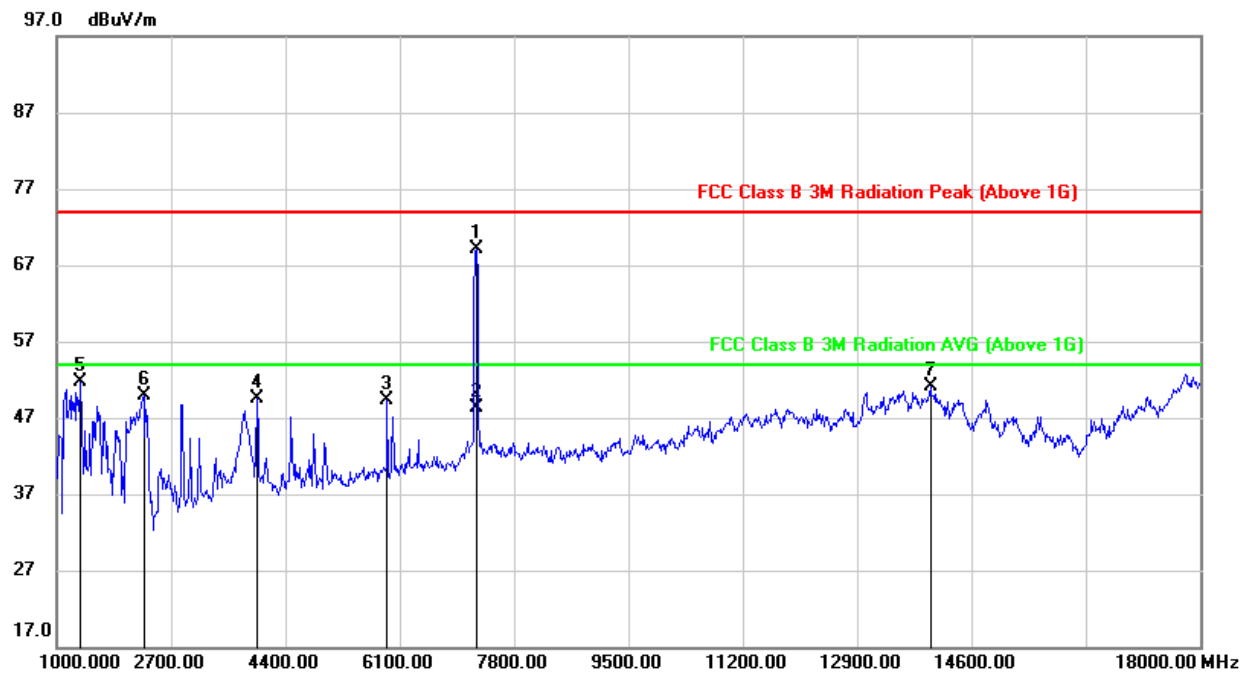
#### HARMONICS AND SPURIOUS EMISSIONS (CHANNEL1, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7239.000	66.09	5.91	72.00	74.00	-2.00	peak
2	7239.000	42.37	5.91	48.28	54.00	-5.72	AVG
3	5913.000	48.50	1.48	49.98	74.00	-24.02	peak
4	3737.000	56.91	-4.83	52.08	74.00	-21.92	peak
5	1170.000	64.25	-13.66	50.59	74.00	-23.41	peak
6	4825.000	49.39	-1.53	47.86	74.00	-26.14	peak
7	13512.000	32.08	18.64	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL1, VERTICAL)**

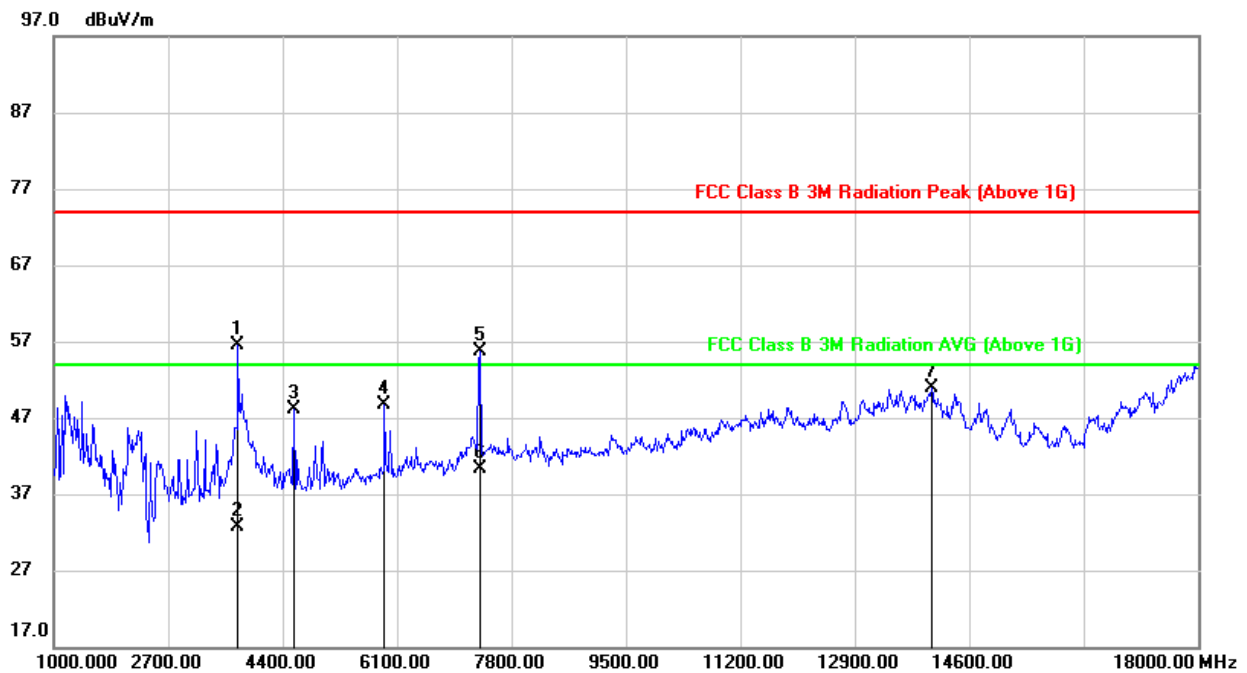


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7239.000	63.28	5.85	69.13	74.00	-4.87	peak
2	7239.000	42.42	5.85	48.27	54.00	-5.73	AVG
3	5913.000	47.76	1.58	49.34	74.00	-24.66	peak
4	3975.000	53.98	-4.42	49.56	74.00	-24.44	peak
5	1357.000	64.55	-12.83	51.72	74.00	-22.28	peak
6	2292.000	58.04	-8.17	49.87	74.00	-24.13	peak
7	13988.000	32.08	18.99	51.07	74.00	-22.93	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

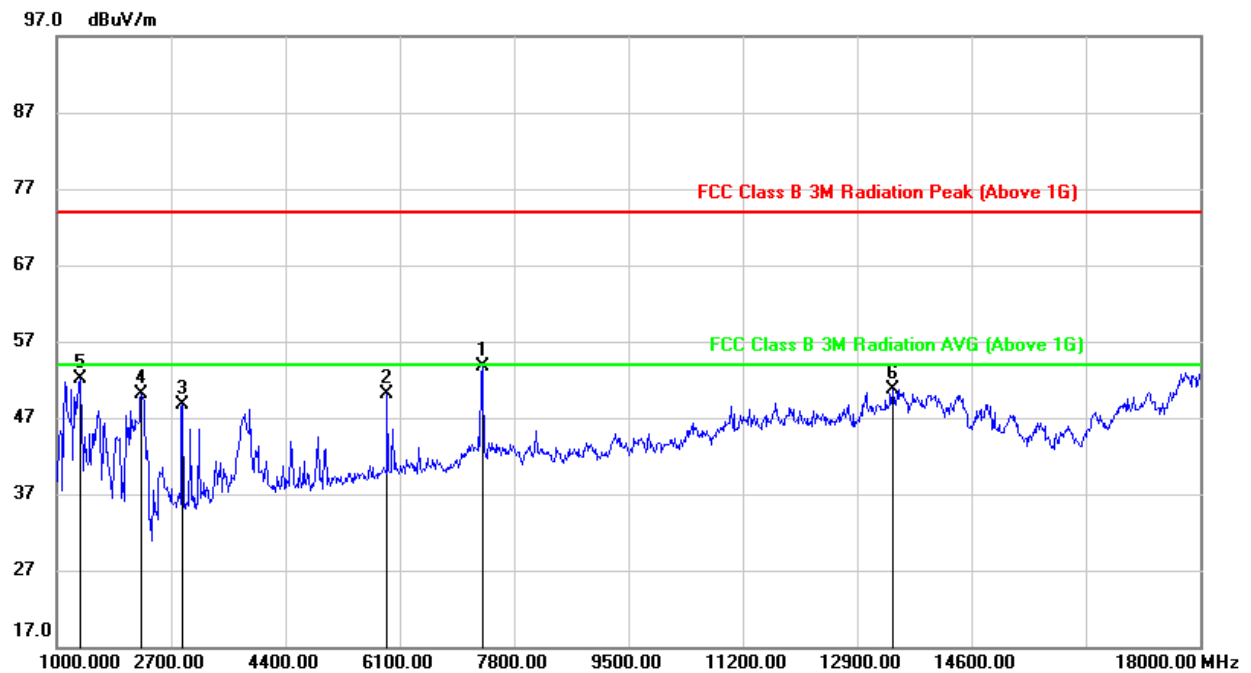
**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL7, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3737.000	61.33	-4.83	56.50	74.00	-17.50	peak
2	3737.000	37.48	-4.83	32.65	54.00	-21.35	AVG
3	4570.000	50.13	-2.10	48.03	74.00	-25.97	peak
4	5913.000	47.25	1.48	48.73	74.00	-25.27	peak
5	7324.000	50.00	5.72	55.72	74.00	-18.28	peak
6	7324.000	34.68	5.72	40.40	54.00	-13.60	AVG
7	14039.000	31.96	18.85	50.81	74.00	-23.19	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL7, VERTICAL)**



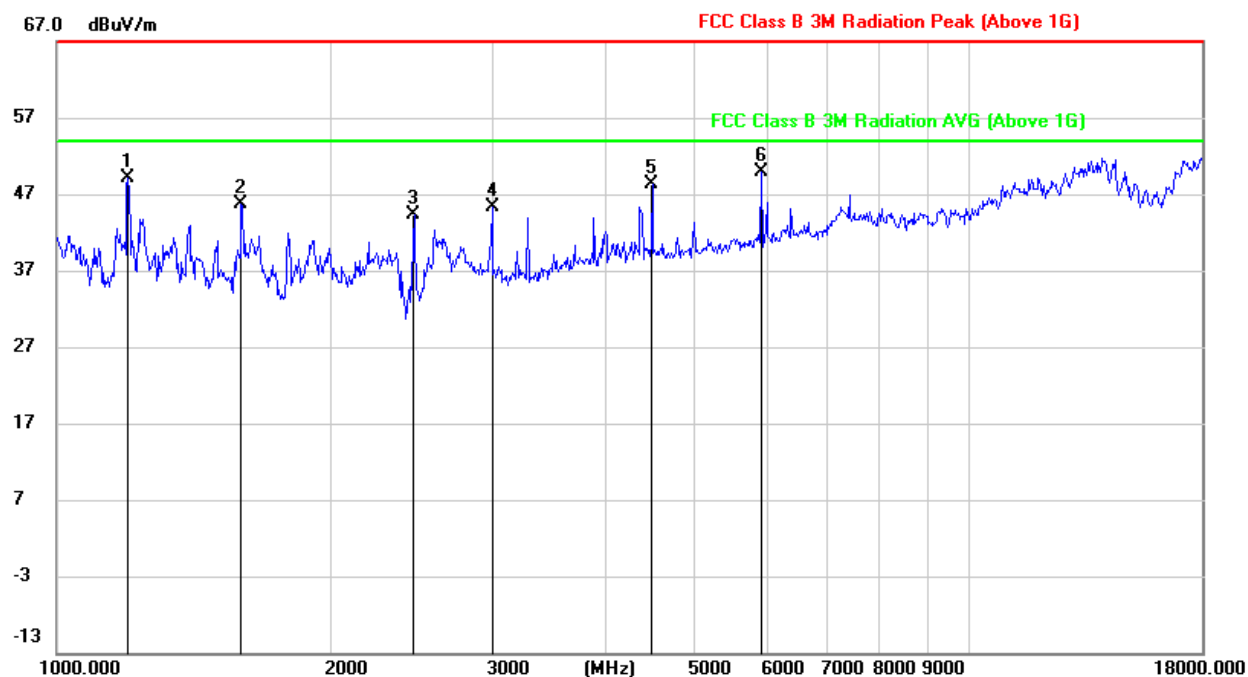
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7324.000	47.94	5.77	53.71	74.00	-20.29	peak
2	5913.000	48.55	1.58	50.13	74.00	-23.87	peak
3	2870.000	56.06	-7.26	48.80	74.00	-25.20	peak
4	2258.000	58.50	-8.31	50.19	74.00	-23.81	peak
5	1340.000	64.99	-12.85	52.14	74.00	-21.86	peak
6	13427.000	32.19	18.44	50.63	74.00	-23.37	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.



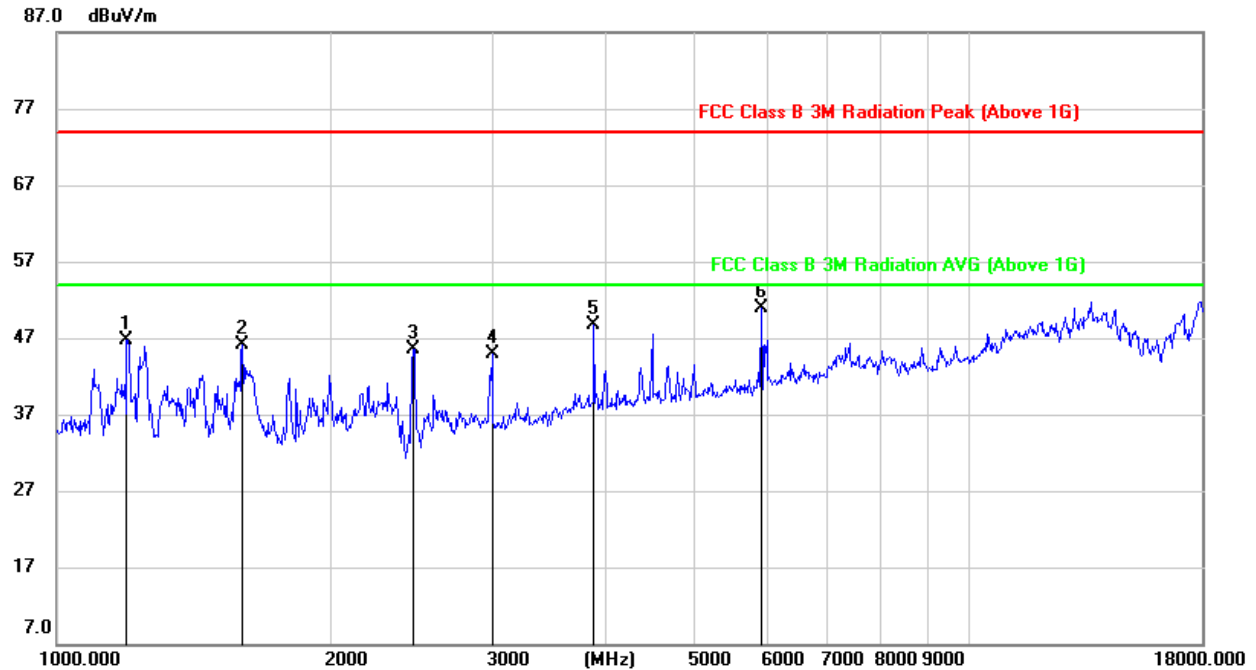
**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL11, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1196.264	62.60	-13.51	49.09	74.00	-24.91	peak
2	1592.571	58.38	-12.73	45.65	74.00	-28.35	peak
3	2464.024	53.51	-9.21	44.30	74.00	-29.70	peak
4	2999.187	52.54	-7.15	45.39	74.00	-28.61	peak
5	4495.124	50.43	-2.21	48.22	74.00	-25.78	peak
6	5915.515	48.35	1.51	49.86	74.00	-24.14	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL11, VERTICAL)**

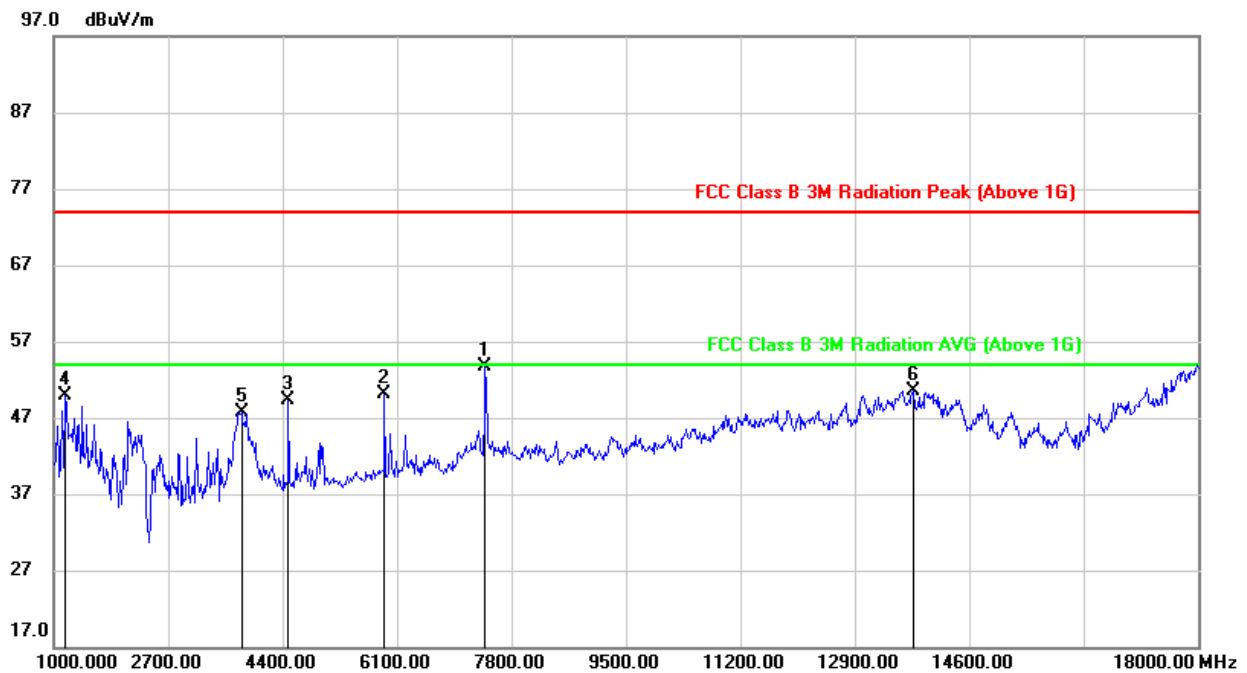


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1192.811	60.36	-13.63	46.73	74.00	-27.27	peak
2	1597.181	58.83	-12.70	46.13	74.00	-27.87	peak
3	2464.024	54.63	-9.11	45.52	74.00	-28.48	peak
4	2999.187	51.97	-7.15	44.82	74.00	-29.18	peak
5	3879.027	53.10	-4.37	48.73	74.00	-25.27	peak
6	5915.515	49.34	1.61	50.95	74.00	-23.05	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

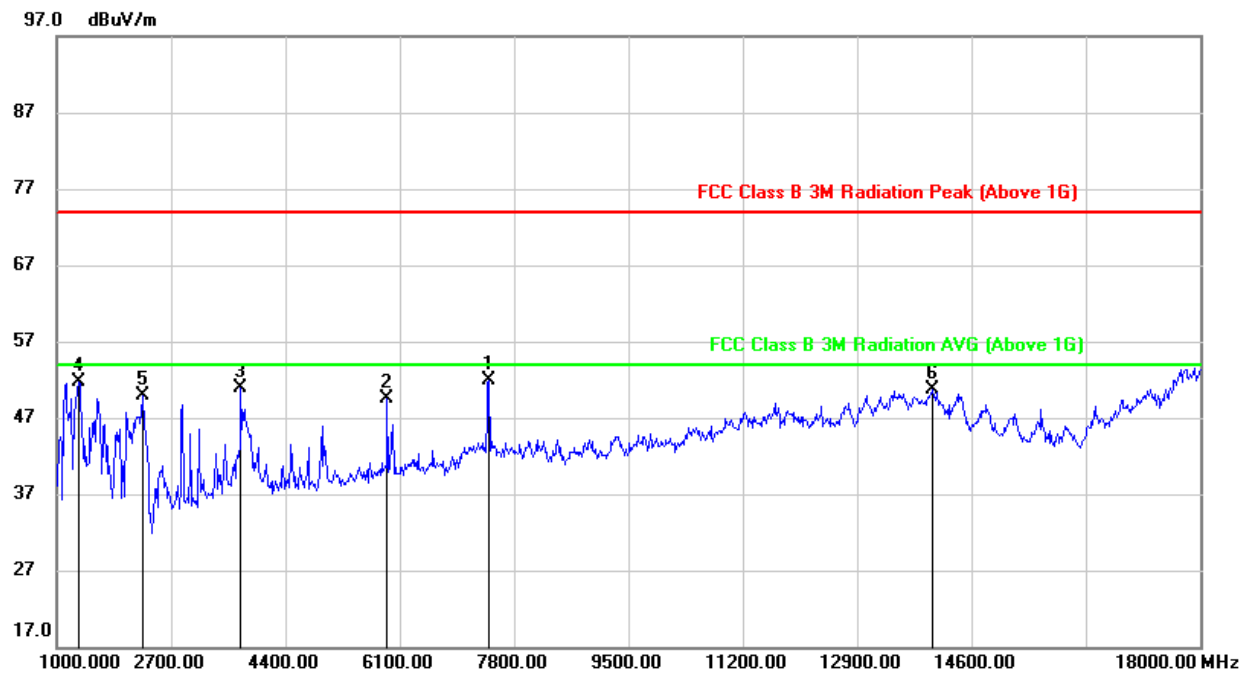
**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL13, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7409.000	48.38	5.32	53.70	74.00	-20.30	peak
2	5913.000	48.63	1.48	50.11	74.00	-23.89	peak
3	4485.000	51.46	-2.23	49.23	74.00	-24.77	peak
4	1170.000	63.65	-13.66	49.99	74.00	-24.01	peak
5	3788.000	52.48	-4.75	47.73	74.00	-26.27	peak
6	13767.000	31.46	19.12	50.58	74.00	-23.42	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CHANNEL13, VERTICAL)**



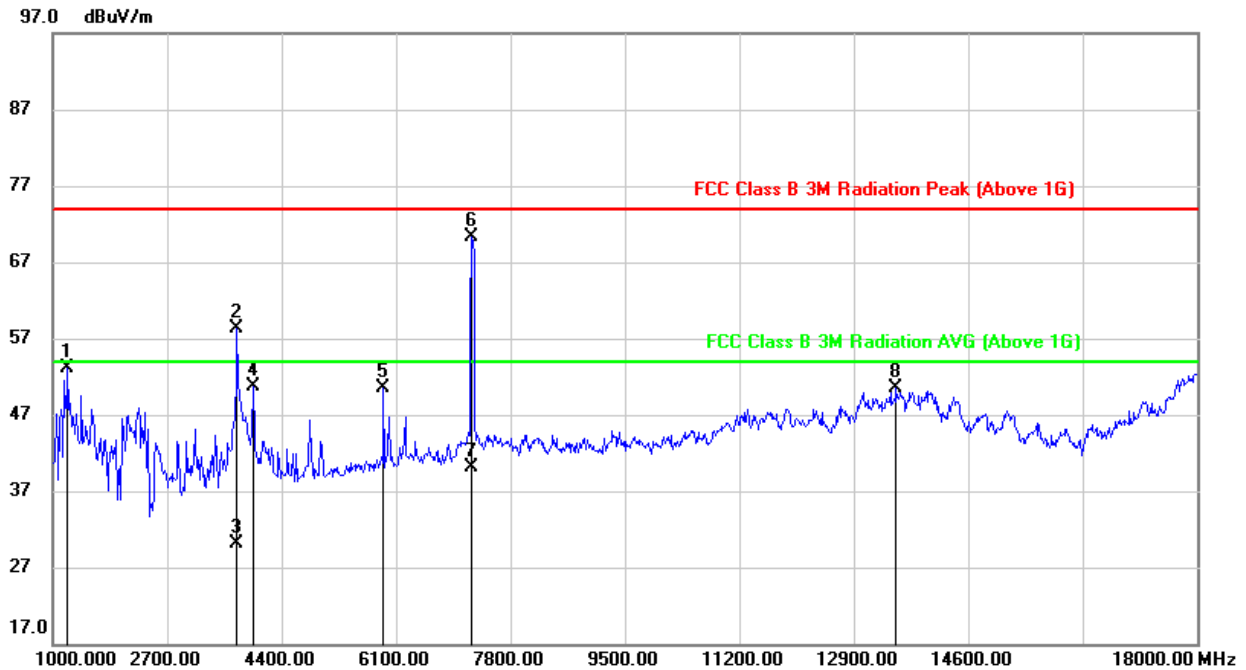
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7426.000	46.37	5.55	51.92	74.00	-22.08	peak
2	5913.000	47.94	1.58	49.52	74.00	-24.48	peak
3	3737.000	55.75	-4.81	50.94	74.00	-23.06	peak
4	1323.000	64.65	-12.93	51.72	74.00	-22.28	peak
5	2275.000	58.08	-8.24	49.84	74.00	-24.16	peak
6	14022.000	31.85	18.88	50.73	74.00	-23.27	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. AVG: VBW=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

### 8.2.1. 802.11n20 CDD MODE

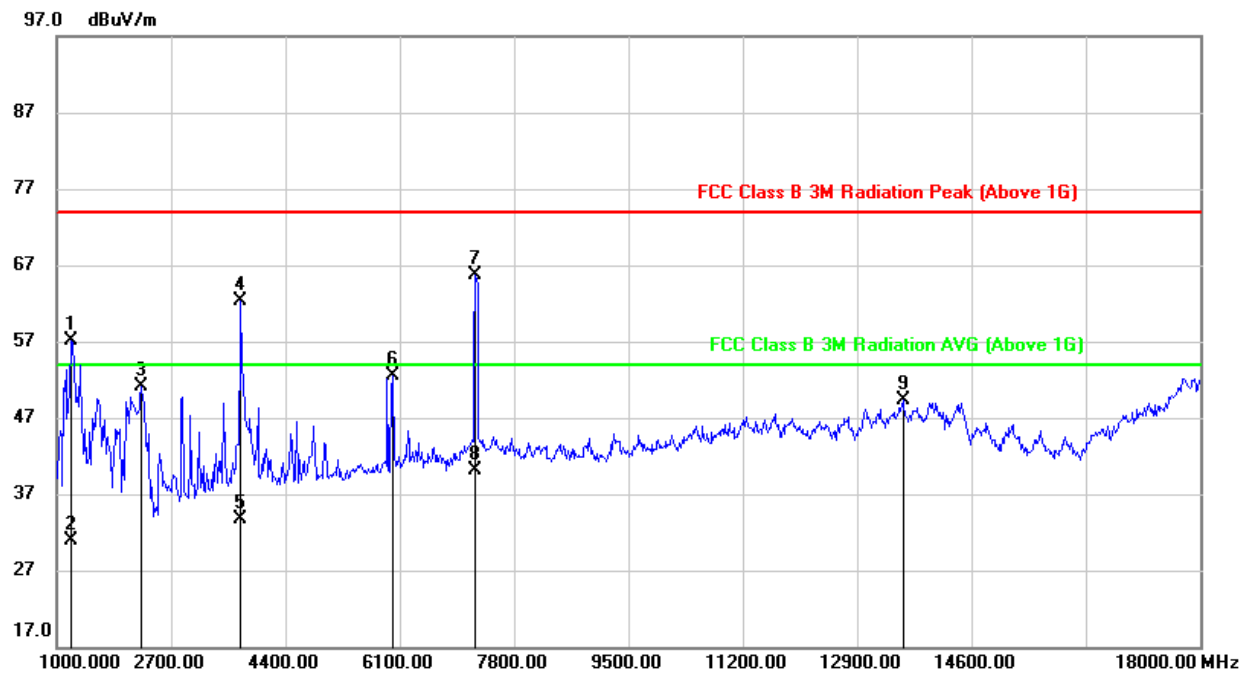
#### HARMONICS AND SPURIOUS EMISSIONS (CH1, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1221.000	66.46	-13.37	53.09	74.00	-20.91	peak
2	3737.000	63.05	-4.83	58.22	74.00	-15.78	peak
3	3737.000	34.94	-4.83	30.11	54.00	-23.89	AVG
4	3975.000	55.14	-4.42	50.72	74.00	-23.28	peak
5	5913.000	48.94	1.48	50.42	74.00	-23.58	peak
6	7222.000	64.43	5.87	70.30	74.00	-3.70	peak
7	7222.000	34.19	5.87	40.06	54.00	-13.94	AVG
8	13529.000	31.86	18.71	50.57	74.00	-23.43	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CH1, VERTICAL)**

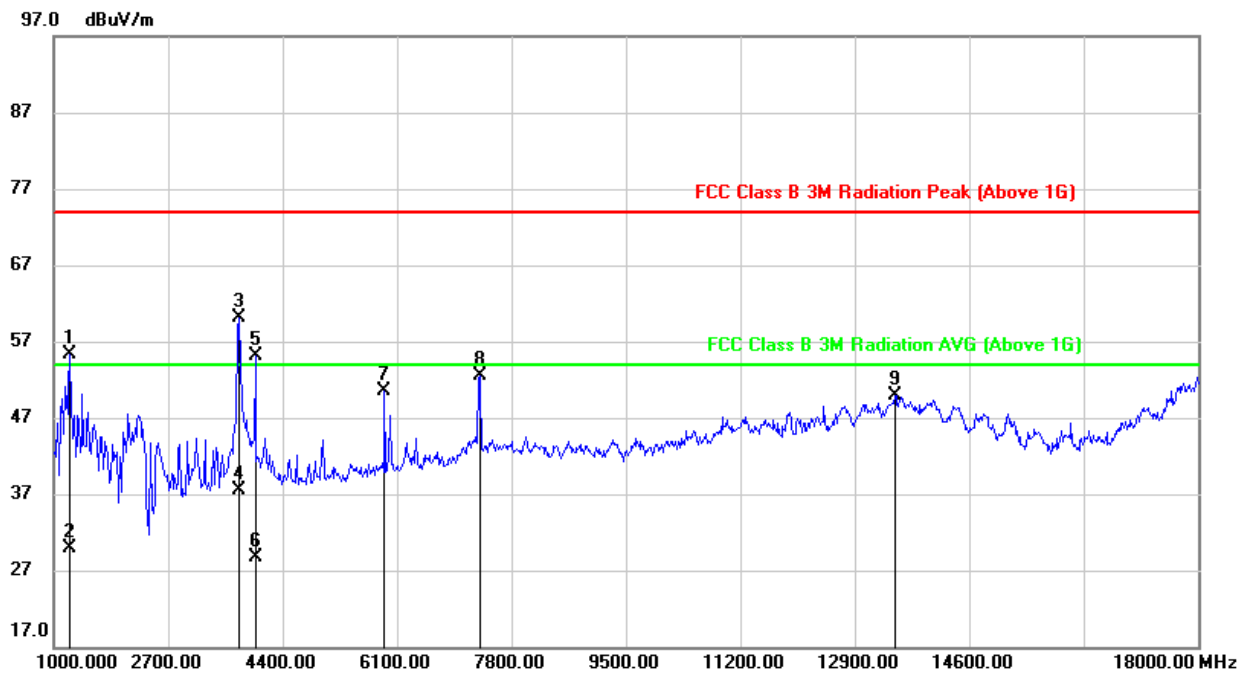


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1221.000	70.42	-13.38	57.04	74.00	-16.96	peak
2	1221.000	44.25	-13.38	30.87	54.00	-23.13	AVG
3	2258.000	59.44	-8.31	51.13	74.00	-22.87	peak
4	3737.000	67.06	-4.81	62.25	74.00	-11.75	peak
5	3737.000	38.42	-4.81	33.61	54.00	-20.39	AVG
6	5998.000	50.43	2.09	52.52	74.00	-21.48	peak
7	7222.000	59.74	5.88	65.62	74.00	-8.38	peak
8	7222.000	34.14	5.88	40.02	54.00	-13.98	AVG
9	13580.000	30.32	19.06	49.38	74.00	-24.62	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

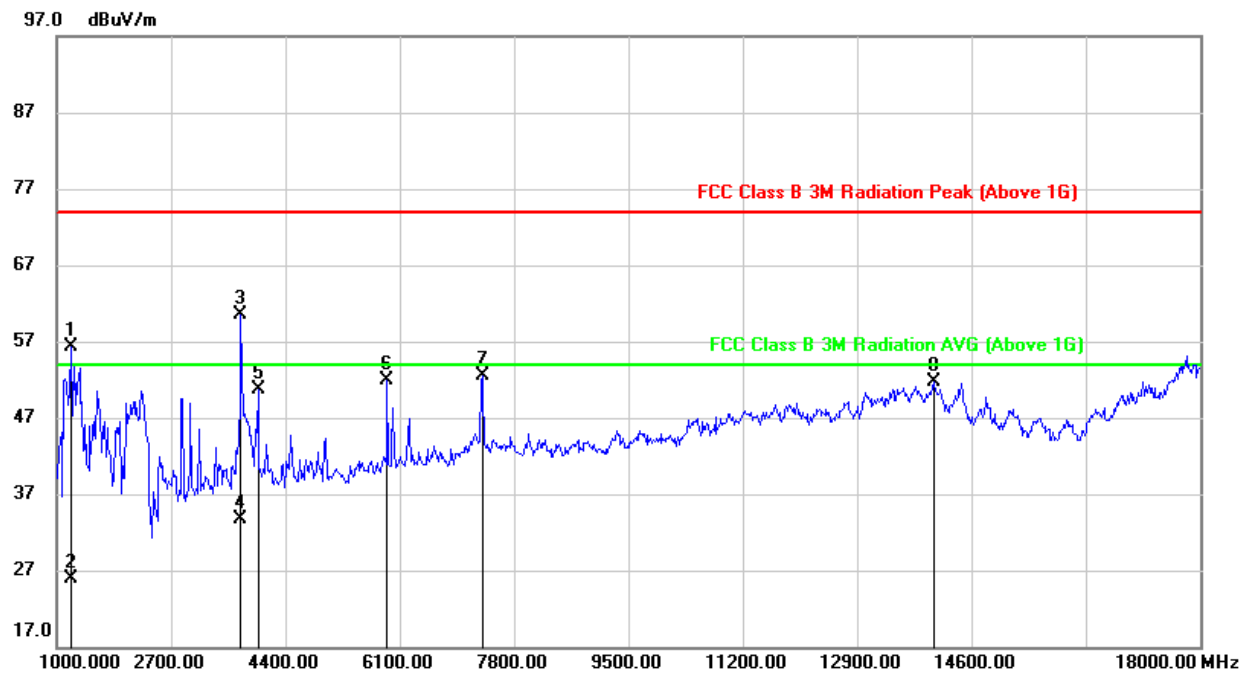
**HARMONICS AND SPURIOUS EMISSIONS (CH7, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1238.000	68.66	-13.27	55.39	74.00	-18.61	peak
2	1238.000	43.25	-13.27	29.98	54.00	-24.02	AVG
3	3754.000	64.94	-4.79	60.15	74.00	-13.85	peak
4	3754.000	42.21	-4.79	37.42	54.00	-16.58	AVG
5	3992.000	59.53	-4.42	55.11	74.00	-18.89	peak
6	3992.000	33.04	-4.42	28.62	54.00	-25.38	AVG
7	5913.000	48.95	1.48	50.43	74.00	-23.57	peak
8	7324.000	46.74	5.72	52.46	74.00	-21.54	peak
9	13495.000	31.35	18.59	49.94	74.00	-24.06	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CH7, VERTICAL)**



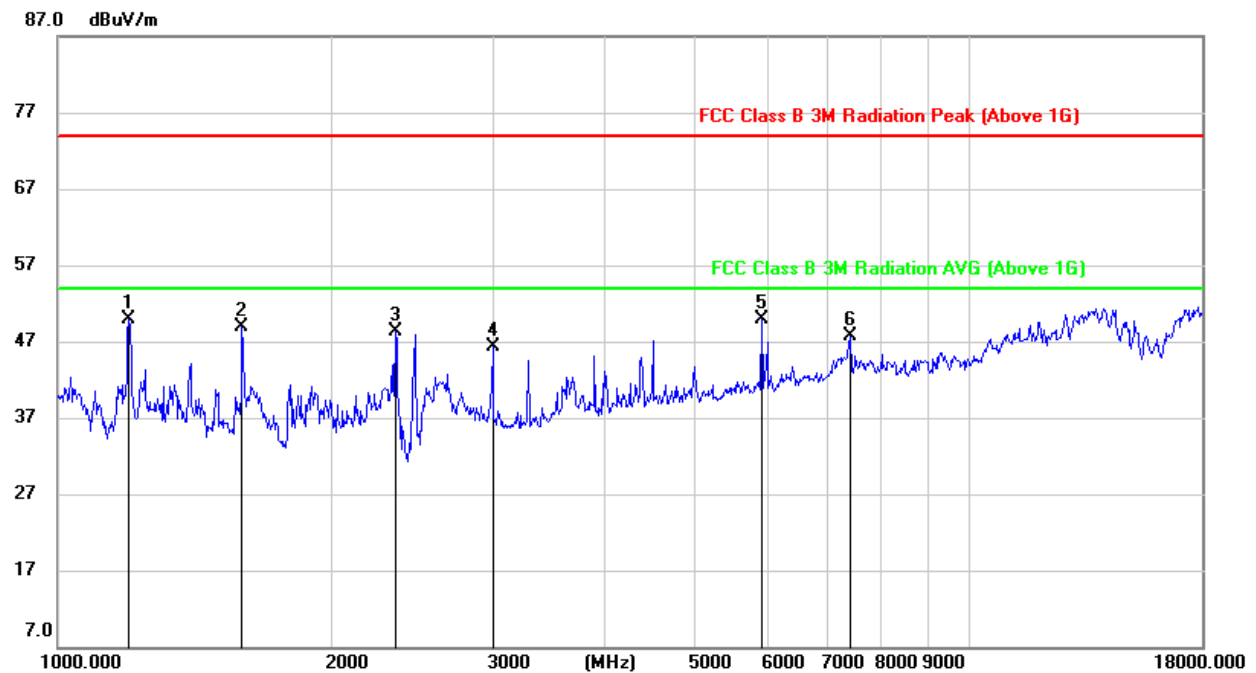
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1221.000	69.60	-13.38	56.22	74.00	-17.78	peak
2	1221.000	39.34	-13.38	25.96	54.00	-28.04	AVG
3	3737.000	65.34	-4.81	60.53	74.00	-13.47	peak
4	3737.000	38.43	-4.81	33.62	54.00	-20.38	AVG
5	3992.000	55.12	-4.42	50.70	74.00	-23.30	peak
6	5913.000	50.29	1.58	51.87	74.00	-22.13	peak
7	7324.000	46.64	5.77	52.41	74.00	-21.59	peak
8	14039.000	32.90	18.80	51.70	74.00	-22.30	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.



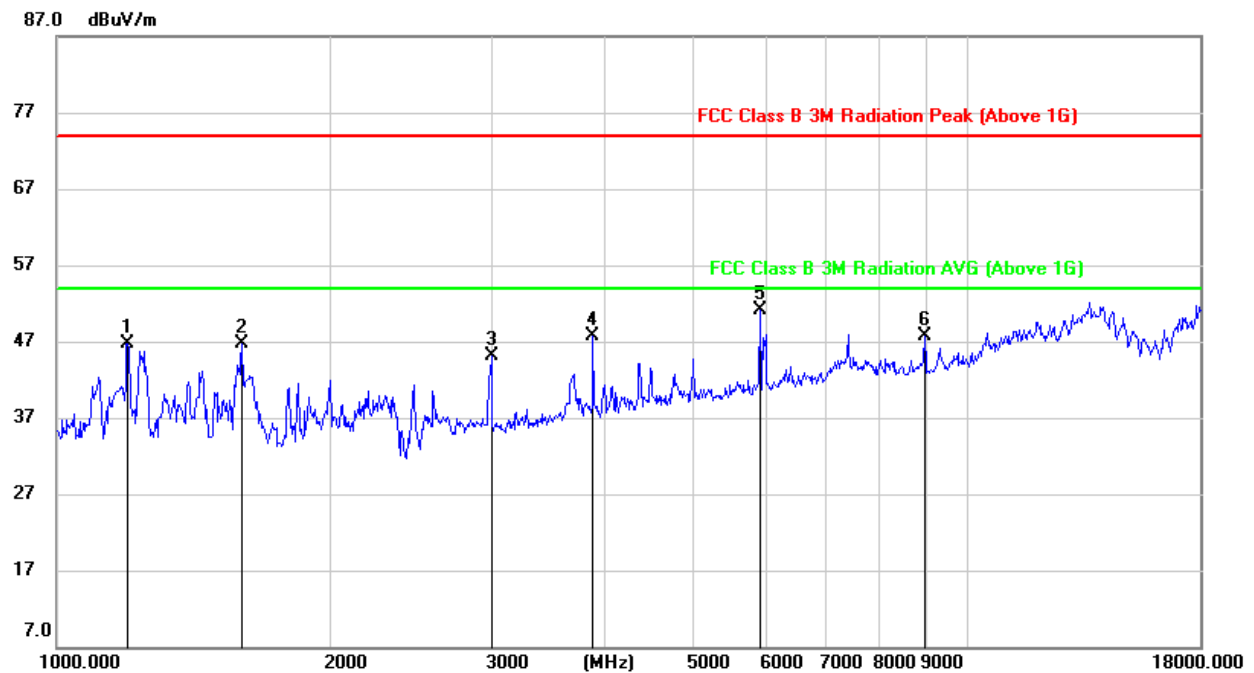
**HARMONICS AND SPURIOUS EMISSIONS (CH11, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1196.264	63.48	-13.51	49.97	74.00	-24.03	peak
2	1592.571	61.58	-12.73	48.85	74.00	-25.15	peak
3	2345.878	56.87	-8.63	48.24	74.00	-25.76	peak
4	2999.187	53.48	-7.15	46.33	74.00	-27.67	peak
5	5915.515	48.38	1.51	49.89	74.00	-24.11	peak
6	7411.461	42.36	5.35	47.71	74.00	-26.29	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CH11, VERTICAL)**

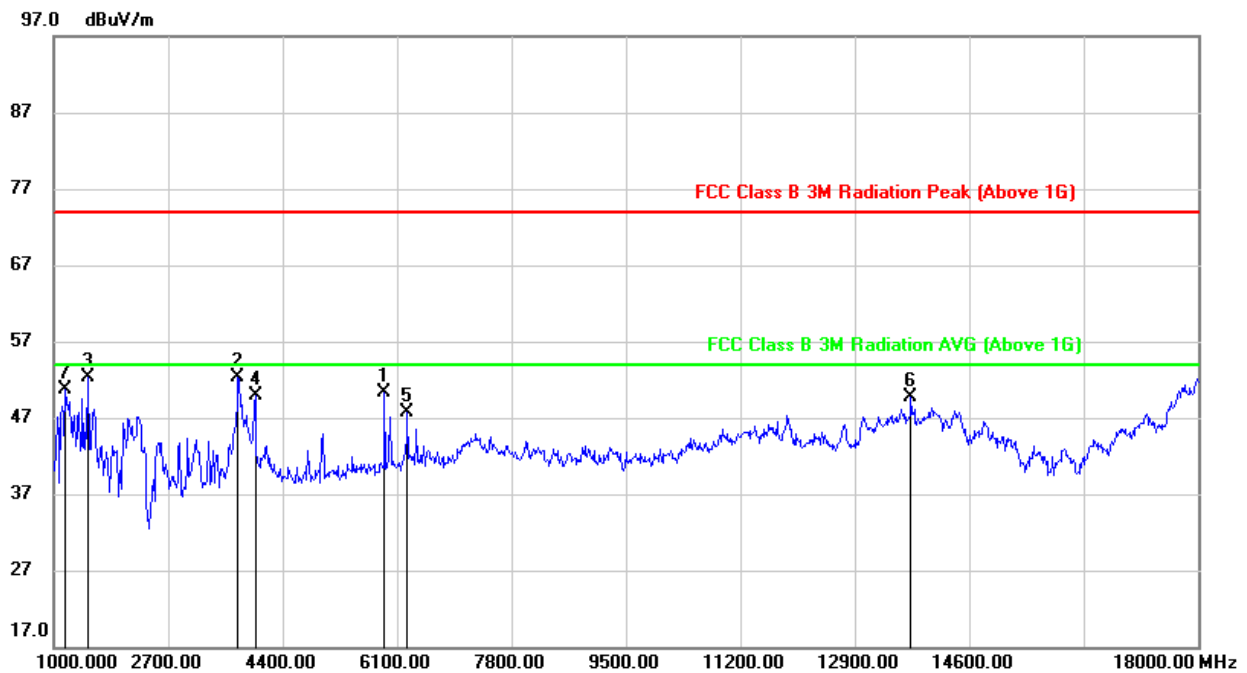


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1196.264	60.39	-13.61	46.78	74.00	-27.22	peak
2	1597.181	59.48	-12.70	46.78	74.00	-27.22	peak
3	2999.187	52.33	-7.15	45.18	74.00	-28.82	peak
4	3879.027	52.04	-4.37	47.67	74.00	-26.33	peak
5	5915.515	49.55	1.61	51.16	74.00	-22.84	peak
6	8969.161	39.97	7.79	47.76	74.00	-26.24	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. AVG: VBW=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

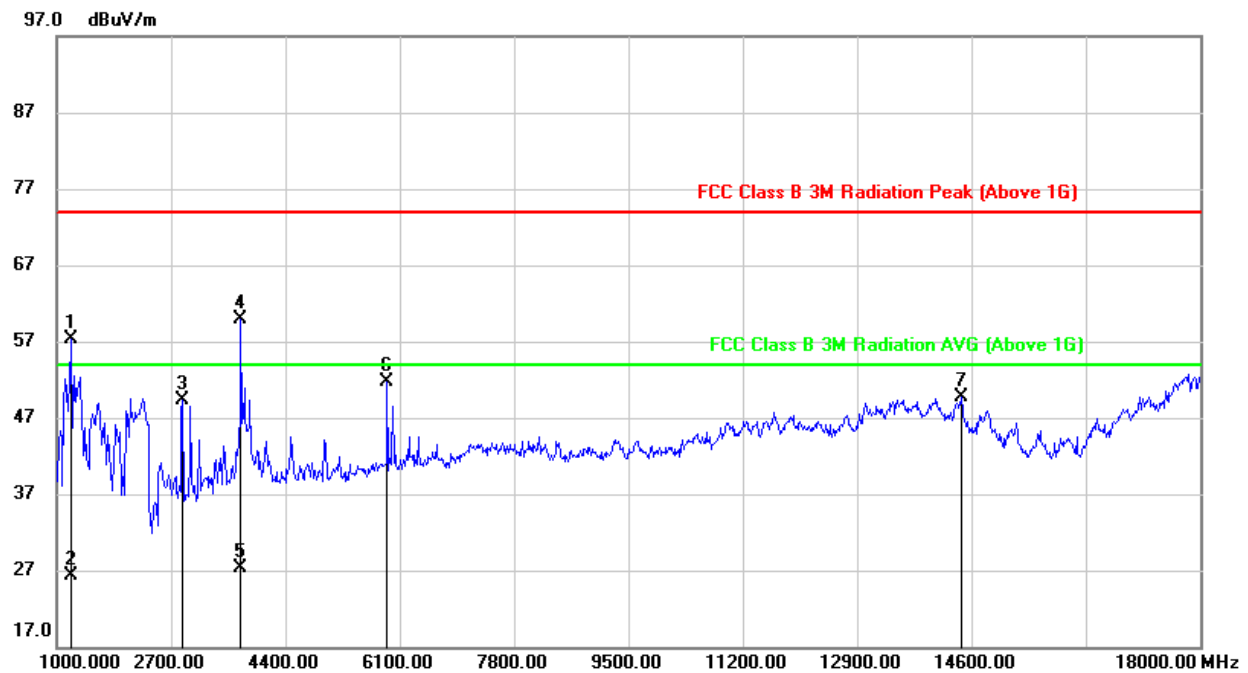
**HARMONICS AND SPURIOUS EMISSIONS (CH13, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5913.000	48.74	1.48	50.22	74.00	-23.78	peak
2	3737.000	57.18	-4.83	52.35	74.00	-21.65	peak
3	1510.000	64.94	-12.71	52.23	74.00	-21.77	peak
4	3992.000	54.27	-4.42	49.85	74.00	-24.15	peak
5	6253.000	44.86	2.87	47.73	74.00	-26.27	peak
6	13733.000	30.49	19.14	49.63	74.00	-24.37	peak
7	1170.000	64.35	-13.66	50.69	74.00	-23.31	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (CH13, VERTICAL)**



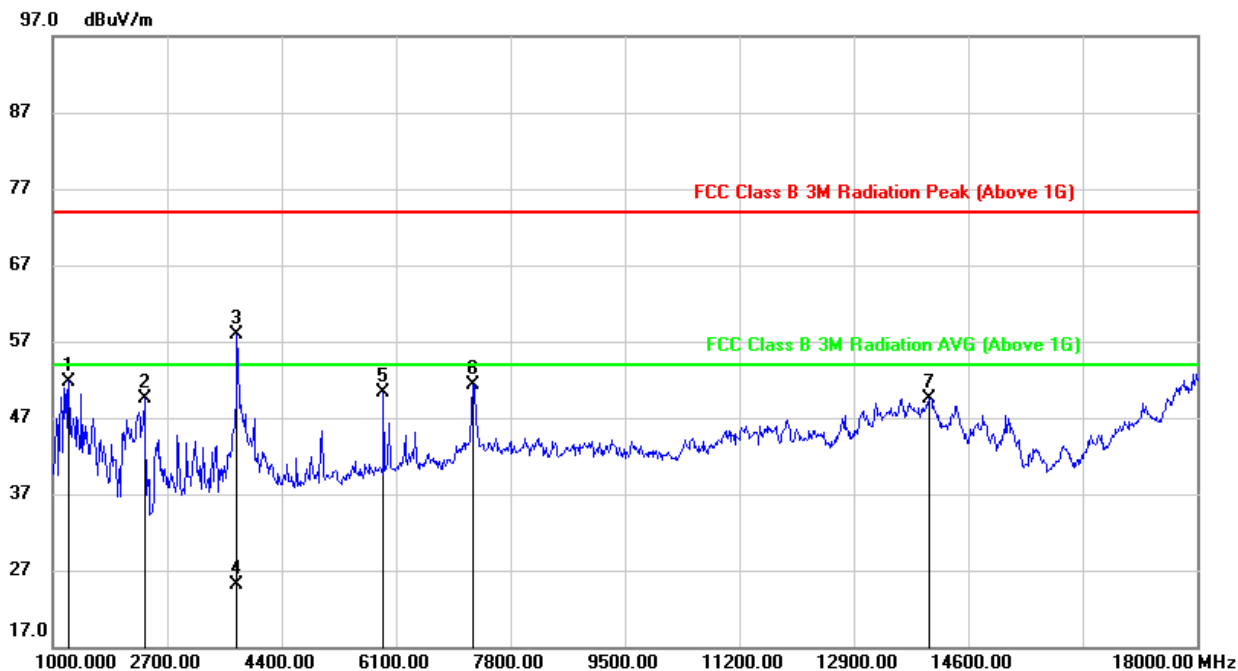
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1221.000	70.70	-13.38	57.32	74.00	-16.68	peak
2	1221.000	39.69	-13.38	26.31	54.00	-27.69	AVG
3	2870.000	56.61	-7.26	49.35	74.00	-24.65	peak
4	3737.000	64.78	-4.81	59.97	74.00	-14.03	peak
5	3737.000	32.17	-4.81	27.36	54.00	-26.64	AVG
6	5913.000	50.19	1.58	51.77	74.00	-22.23	peak
7	14447.000	31.73	17.90	49.63	74.00	-24.37	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

Note: All the antennas had been tested, but only the worst data record in the report.

### 8.2.1. 802.11n40 CDD MODE

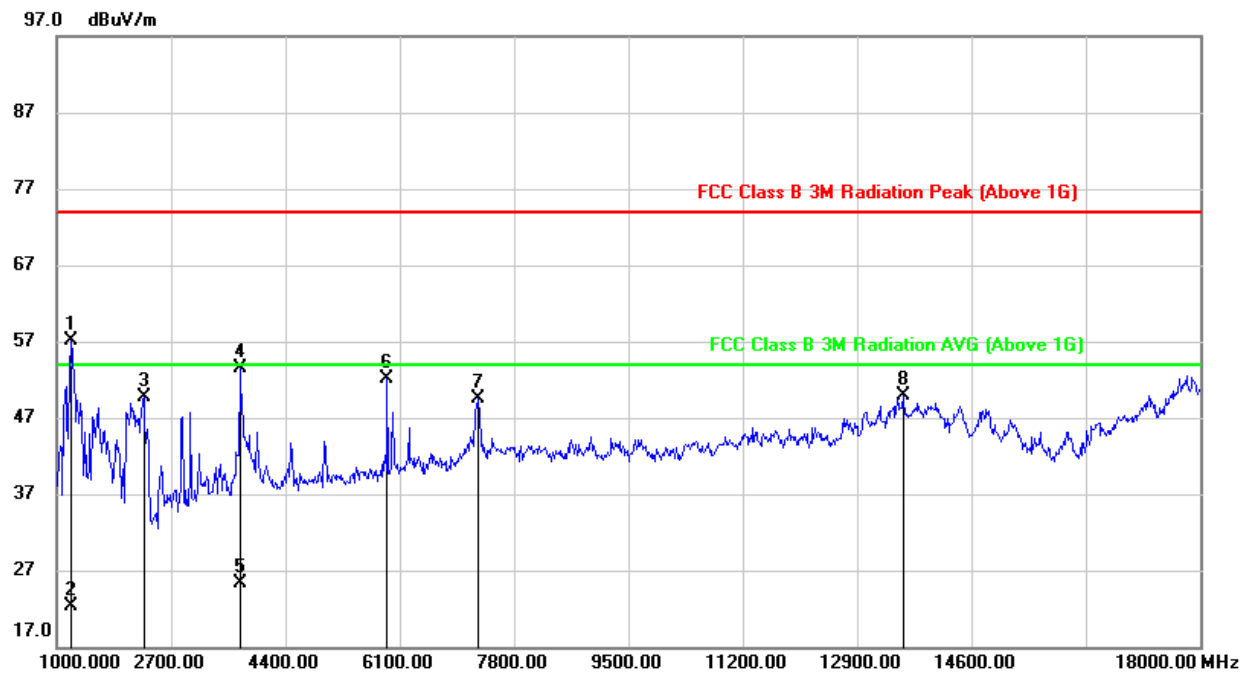
#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1238.000	65.07	-13.27	51.80	74.00	-22.20	peak
2	2360.000	58.21	-8.72	49.49	74.00	-24.51	peak
3	3737.000	62.70	-4.83	57.87	74.00	-16.13	peak
4	3737.000	29.95	-4.83	25.12	54.00	-28.88	AVG
5	5913.000	48.87	1.48	50.35	74.00	-23.65	peak
6	7239.000	45.41	5.91	51.32	74.00	-22.68	peak
7	14022.000	30.68	18.87	49.55	74.00	-24.45	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

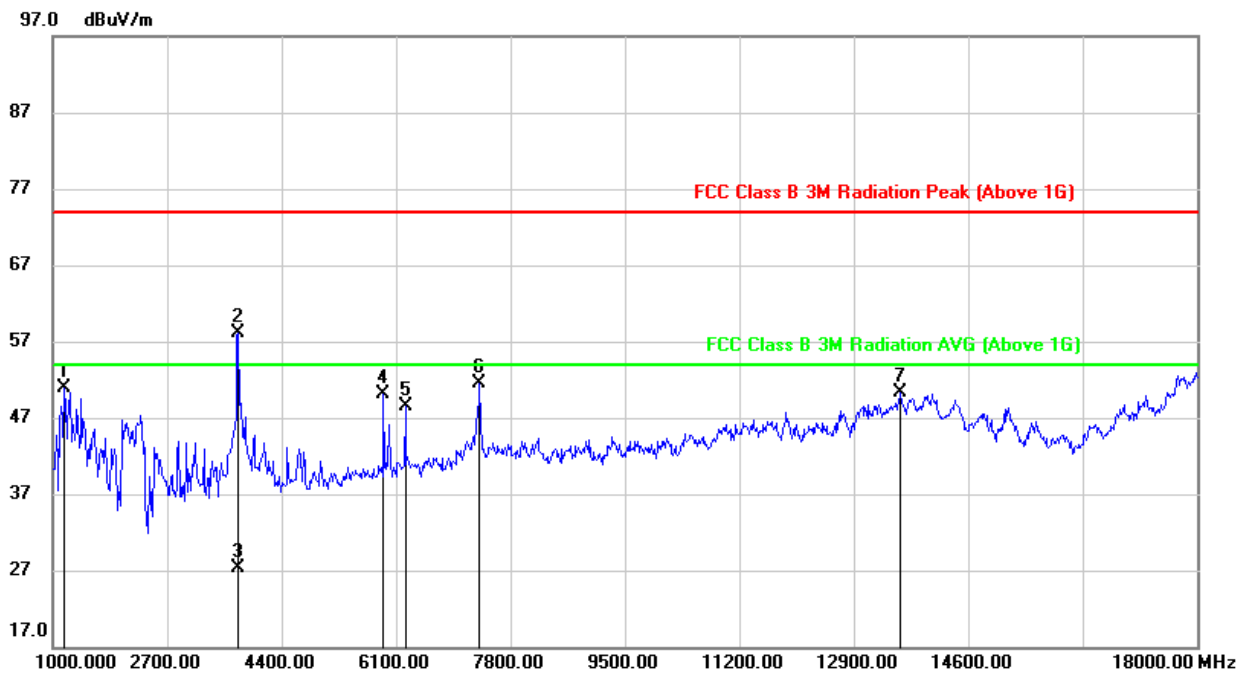
**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1221.000	70.41	-13.38	57.03	74.00	-16.97	peak
2	1221.000	35.69	-13.38	22.31	54.00	-31.69	AVG
3	2292.000	57.91	-8.17	49.74	74.00	-24.26	peak
4	3720.000	58.27	-4.83	53.44	74.00	-20.56	peak
5	3720.000	30.19	-4.83	25.36	54.00	-28.64	AVG
6	5913.000	50.60	1.58	52.18	74.00	-21.82	peak
7	7273.000	43.62	5.91	49.53	74.00	-24.47	peak
8	13580.000	30.88	19.06	49.94	74.00	-24.06	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

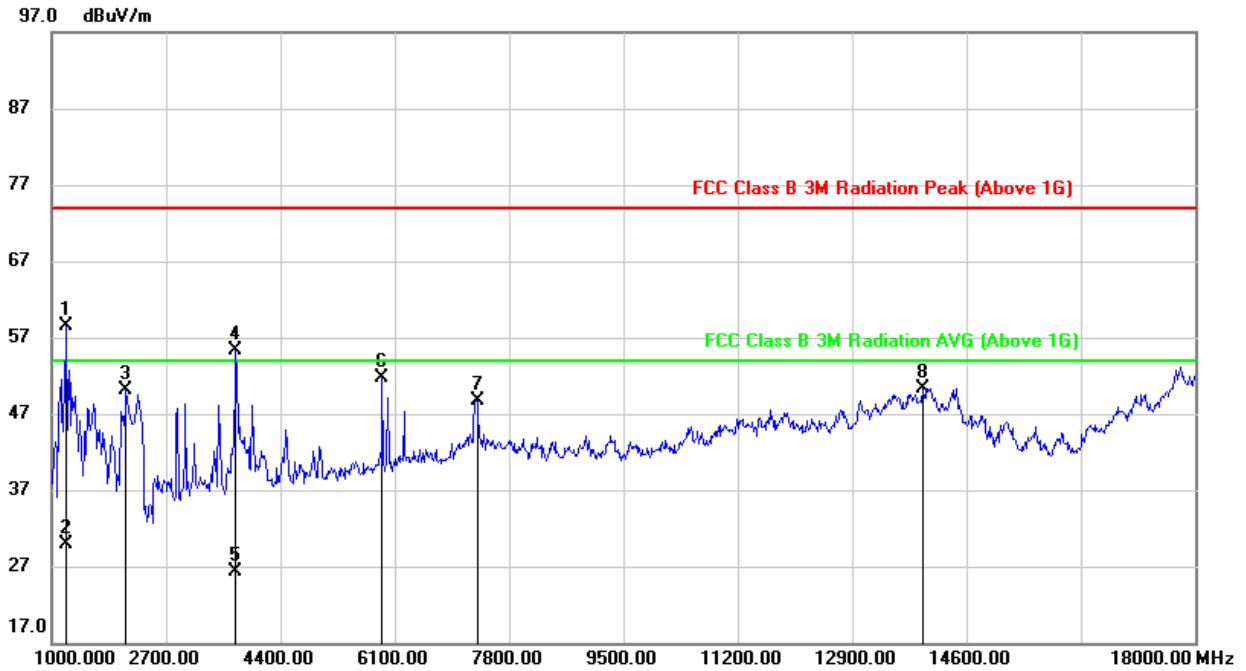
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1170.000	64.64	-13.66	50.98	74.00	-23.02	peak
2	3754.000	62.92	-4.79	58.13	74.00	-15.87	peak
3	3754.000	32.15	-4.79	27.36	54.00	-26.64	AVG
4	5913.000	48.69	1.48	50.17	74.00	-23.83	peak
5	6236.000	45.65	2.82	48.47	74.00	-25.53	peak
6	7341.000	45.94	5.56	51.50	74.00	-22.50	peak
7	13597.000	31.28	19.03	50.31	74.00	-23.69	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

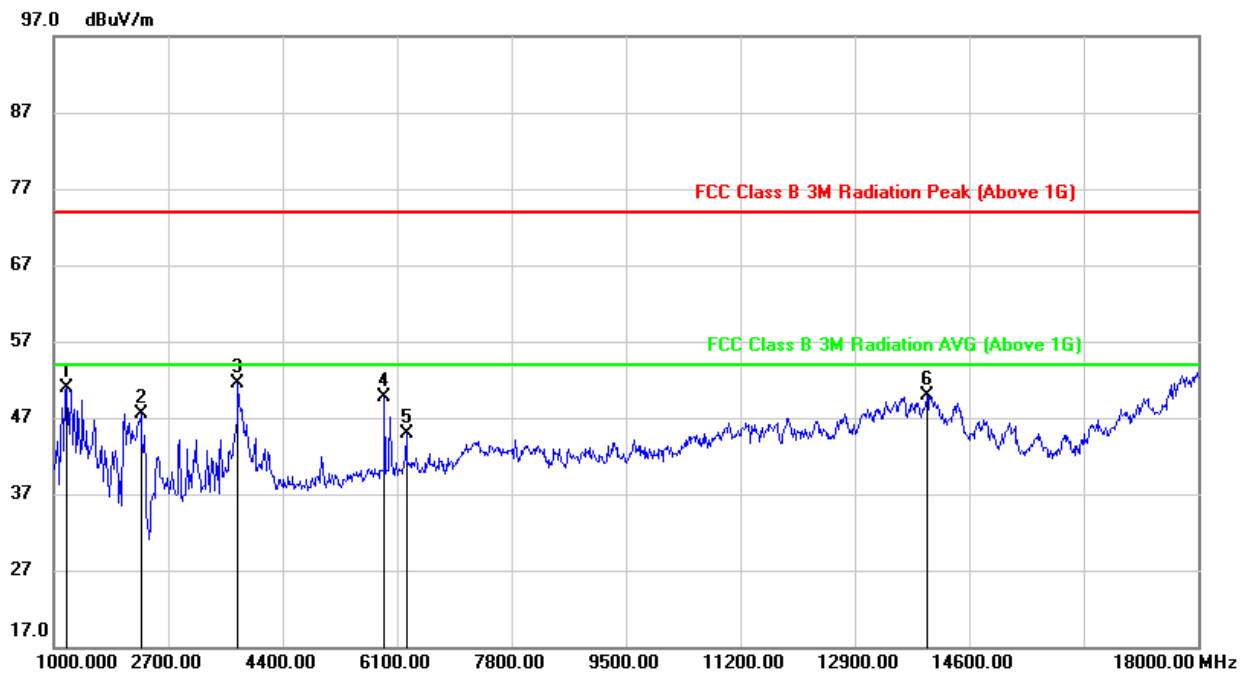


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1221.000	71.79	-13.38	58.41	74.00	-15.59	peak
2	1221.000	43.21	-13.38	29.83	54.00	-24.17	AVG
3	2105.000	60.32	-10.26	50.06	74.00	-23.94	peak
4	3737.000	60.08	-4.81	55.27	74.00	-18.73	peak
5	3737.000	31.12	-4.81	26.31	54.00	-27.69	AVG
6	5913.000	50.12	1.58	51.70	74.00	-22.30	peak
7	7324.000	42.89	5.77	48.66	74.00	-25.34	peak
8	13954.000	31.29	19.06	50.35	74.00	-23.65	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.



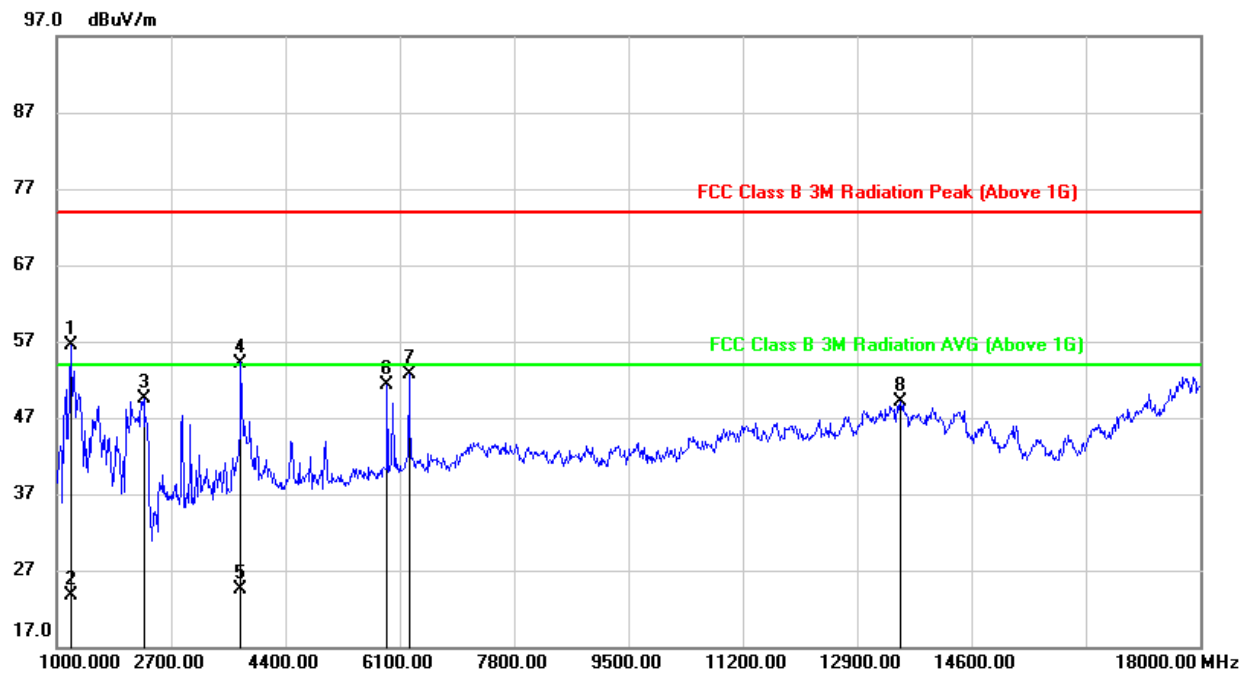
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1187.000	64.36	-13.55	50.81	74.00	-23.19	peak
2	2292.000	55.84	-8.33	47.51	74.00	-26.49	peak
3	3737.000	56.32	-4.83	51.49	74.00	-22.51	peak
4	5913.000	48.28	1.48	49.76	74.00	-24.24	peak
5	6236.000	42.10	2.82	44.92	74.00	-29.08	peak
6	13971.000	30.98	18.93	49.91	74.00	-24.09	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**



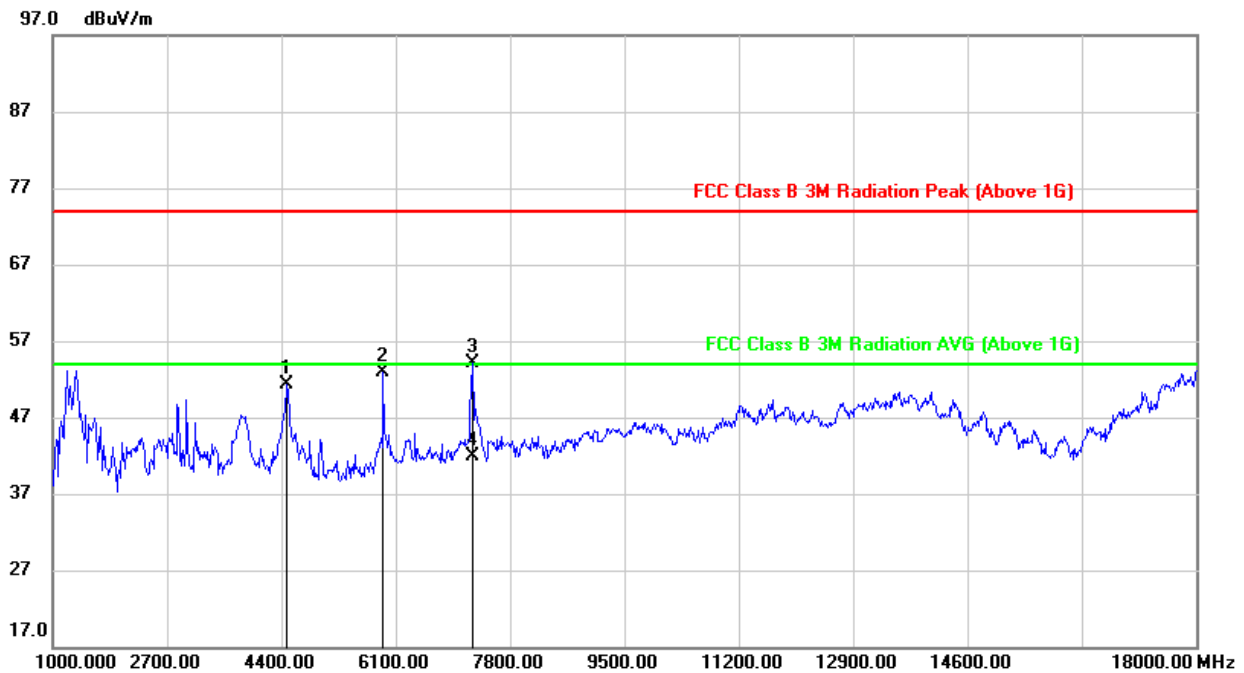
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1204.000	70.03	-13.54	56.49	74.00	-17.51	peak
2	1204.000	37.23	-13.54	23.69	54.00	-30.31	AVG
3	2292.000	57.68	-8.17	49.51	74.00	-24.49	peak
4	3737.000	59.01	-4.81	54.20	74.00	-19.80	peak
5	3737.000	29.37	-4.81	24.56	54.00	-29.44	AVG
6	5913.000	49.80	1.58	51.38	74.00	-22.62	peak
7	6236.000	49.79	2.89	52.68	74.00	-21.32	peak
8	13546.000	29.78	19.38	49.16	74.00	-24.84	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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

### 8.3. WORST-CASE CO-LOCATION

#### 8.3.1. BT GFSK AND 802.11n HT20 CDD MODE

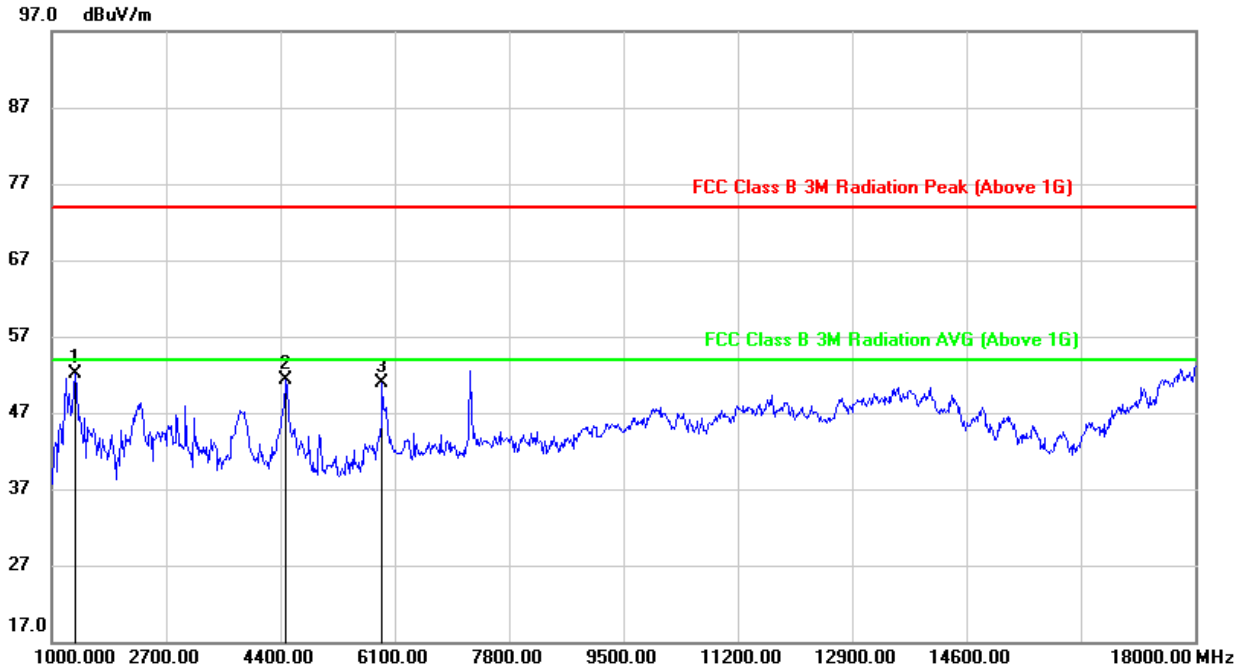
##### SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4485.000	53.48	-2.13	51.35	74.00	-22.65	peak
2	5913.000	51.35	1.58	52.93	74.00	-21.07	peak
3	7239.000	48.19	5.85	54.04	74.00	-19.96	peak
4	7239.000	36.02	5.85	41.87	54.00	-12.13	AVG

- 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=10Hz.  
 5. For transmit duration, please refer to clause 7.1.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1340.000	64.94	-12.85	52.09	74.00	-21.91	peak
2	4485.000	53.48	-2.13	51.35	74.00	-22.65	peak
3	5913.000	49.35	1.58	50.93	74.00	-23.07	peak

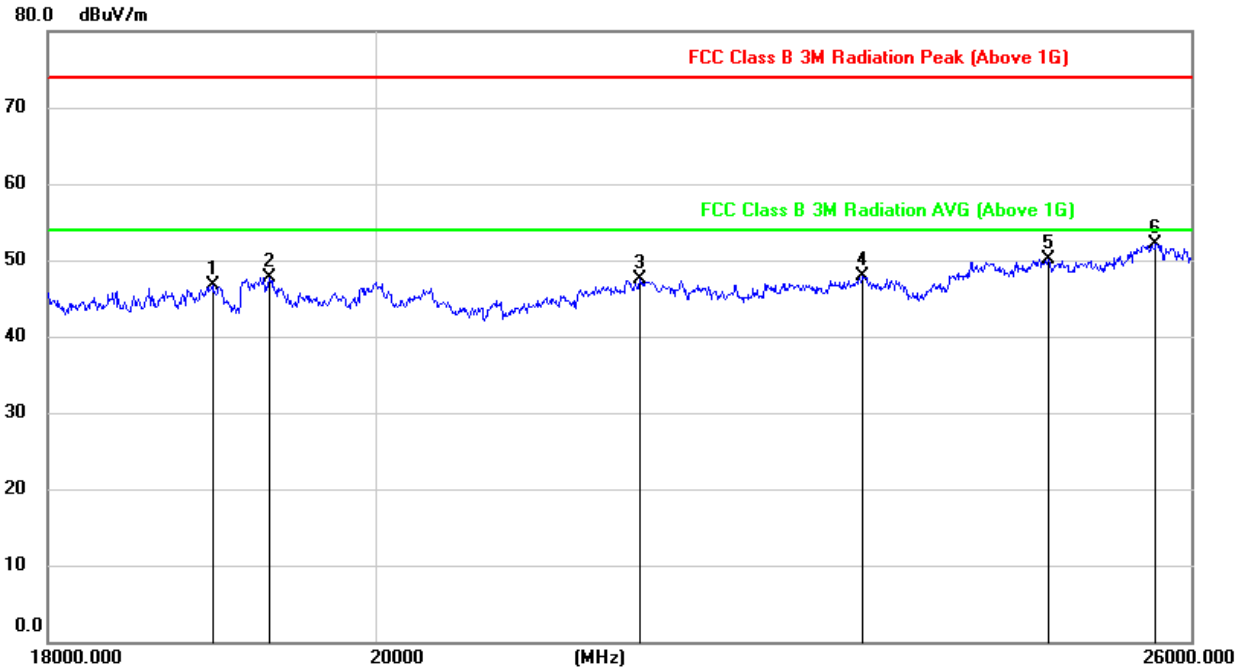
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.

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

### 8.4. SPURIOUS EMISSIONS (18~25GHz)

#### 8.4.1. 802.11n HT20 CDD MODE

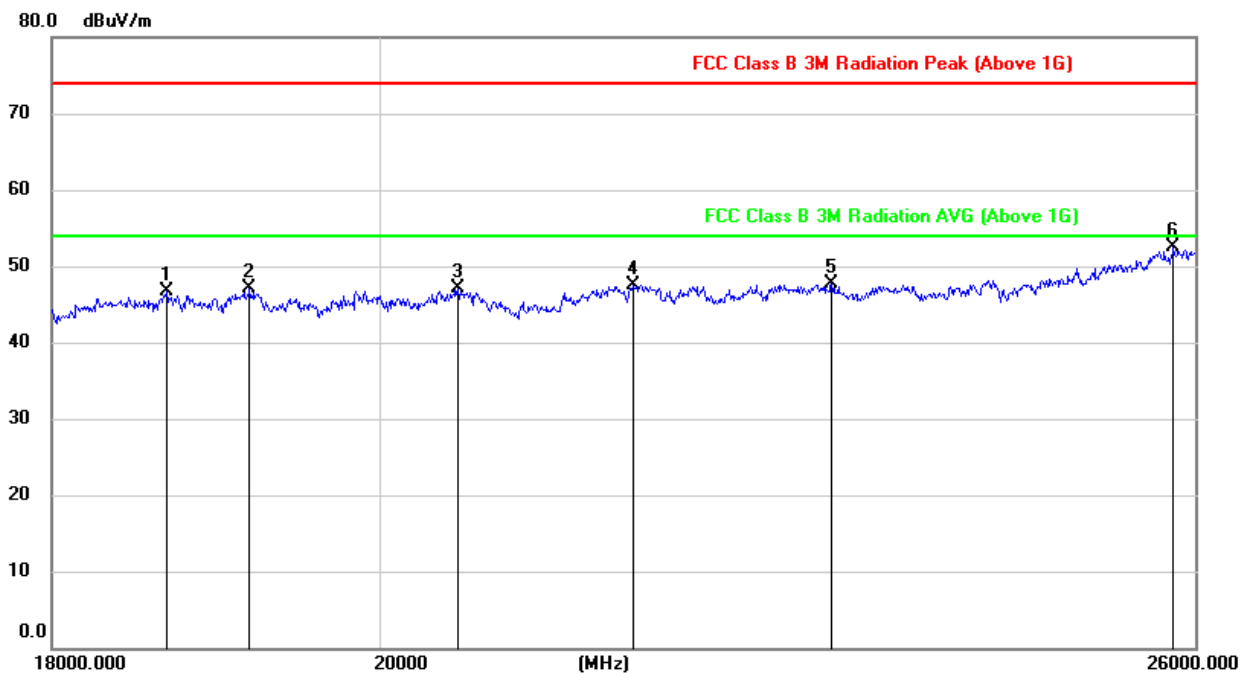
#### SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18978.830	51.86	-5.24	46.62	74.00	-27.38	peak
2	19331.007	53.33	-5.58	47.75	74.00	-26.25	peak
3	21776.975	51.84	-4.35	47.49	74.00	-26.51	peak
4	23395.870	51.19	-3.23	47.96	74.00	-26.04	peak
5	24831.945	52.27	-2.24	50.03	74.00	-23.97	peak
6	25705.297	52.97	-0.82	52.15	74.00	-21.85	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.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18681.093	52.00	-5.38	46.62	74.00	-27.38	peak
2	19182.303	52.58	-5.49	47.09	74.00	-26.91	peak
3	20510.030	52.36	-5.35	47.01	74.00	-26.99	peak
4	21697.042	51.97	-4.40	47.57	74.00	-26.43	peak
5	23130.684	51.09	-3.40	47.69	74.00	-26.31	peak
6	25818.977	53.23	-0.74	52.49	74.00	-21.51	peak

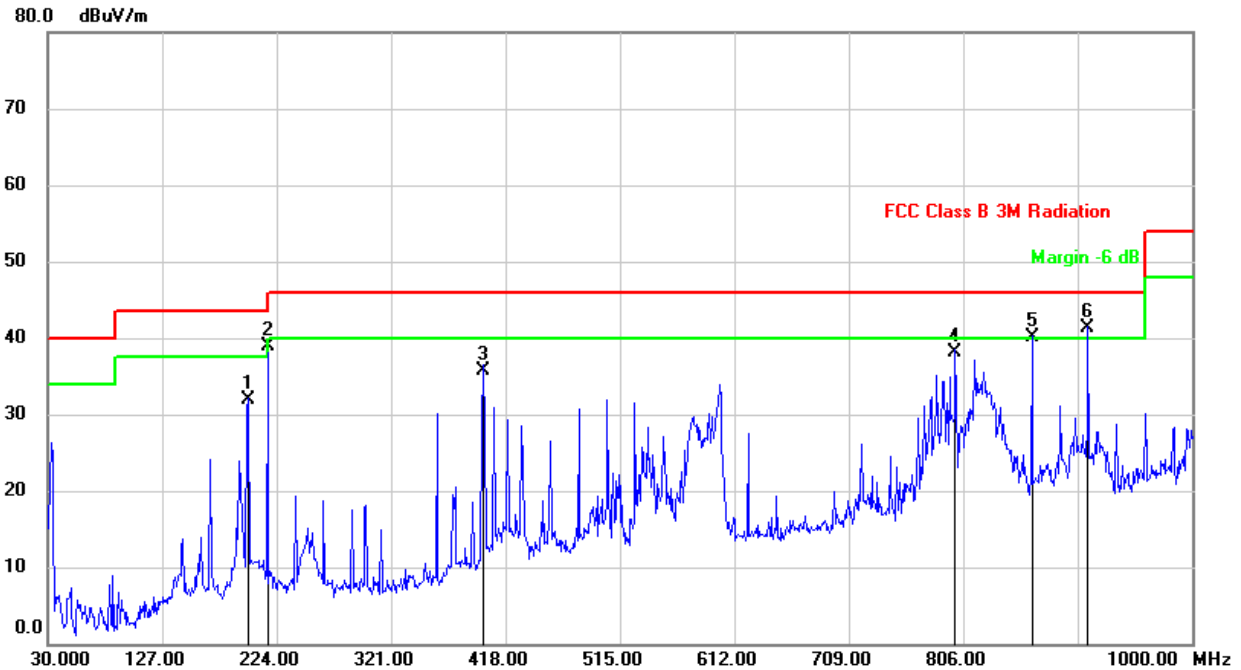
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.

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

### 8.5. SPURIOUS EMISSIONS (30M ~ 1 GHz)

#### 8.5.1. 802.11n HT20 CDD MODE

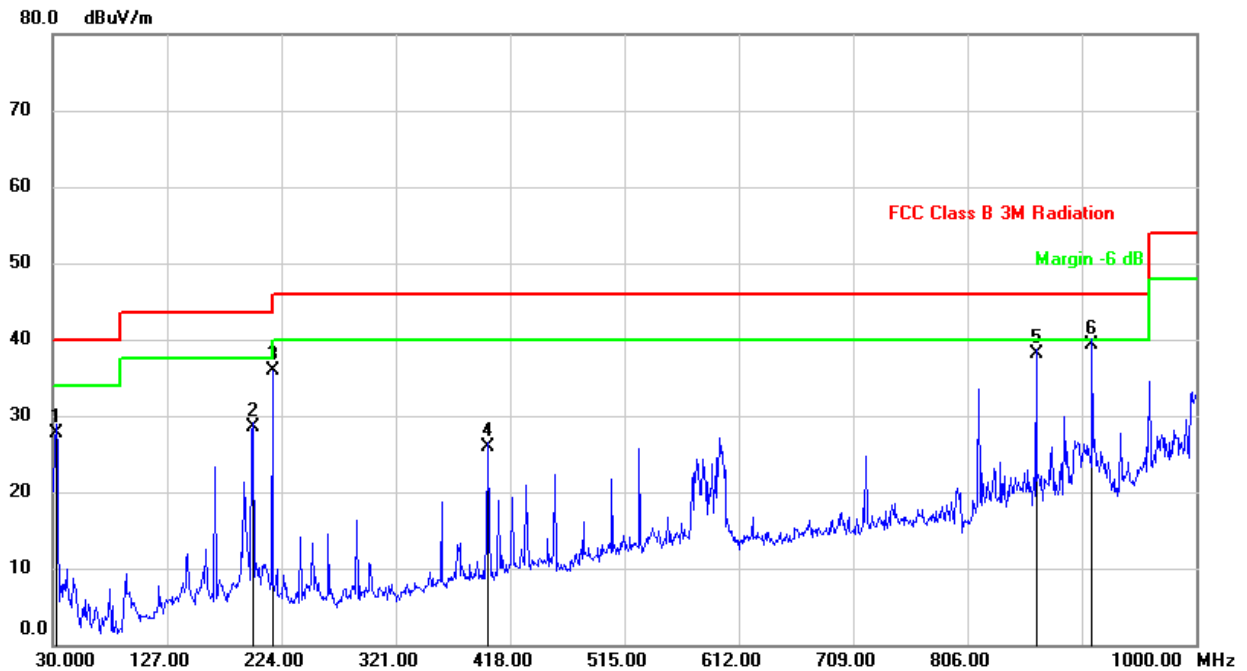
#### SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	199.7500	59.97	-28.12	31.85	43.50	-11.65	QP
2	216.0000	67.40	-28.44	38.96	43.50	-4.54	QP
3	399.5700	60.81	-25.15	35.66	46.00	-10.34	QP
4	799.2100	57.66	-19.60	38.06	46.00	-7.94	QP
5	864.2000	57.28	-17.13	40.15	46.00	-5.85	QP
6	911.7300	57.53	-16.20	41.33	46.00	-4.67	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 (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	56.73	-29.05	27.68	40.00	-12.32	QP
2	199.7500	56.65	-28.12	28.53	43.50	-14.97	QP
3	216.2400	64.37	-28.45	35.92	46.00	-10.08	QP
4	399.5700	51.14	-25.15	25.99	46.00	-20.01	QP
5	864.2000	55.25	-17.13	38.12	46.00	-7.88	QP
6	911.7300	55.45	-16.20	39.25	46.00	-6.75	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

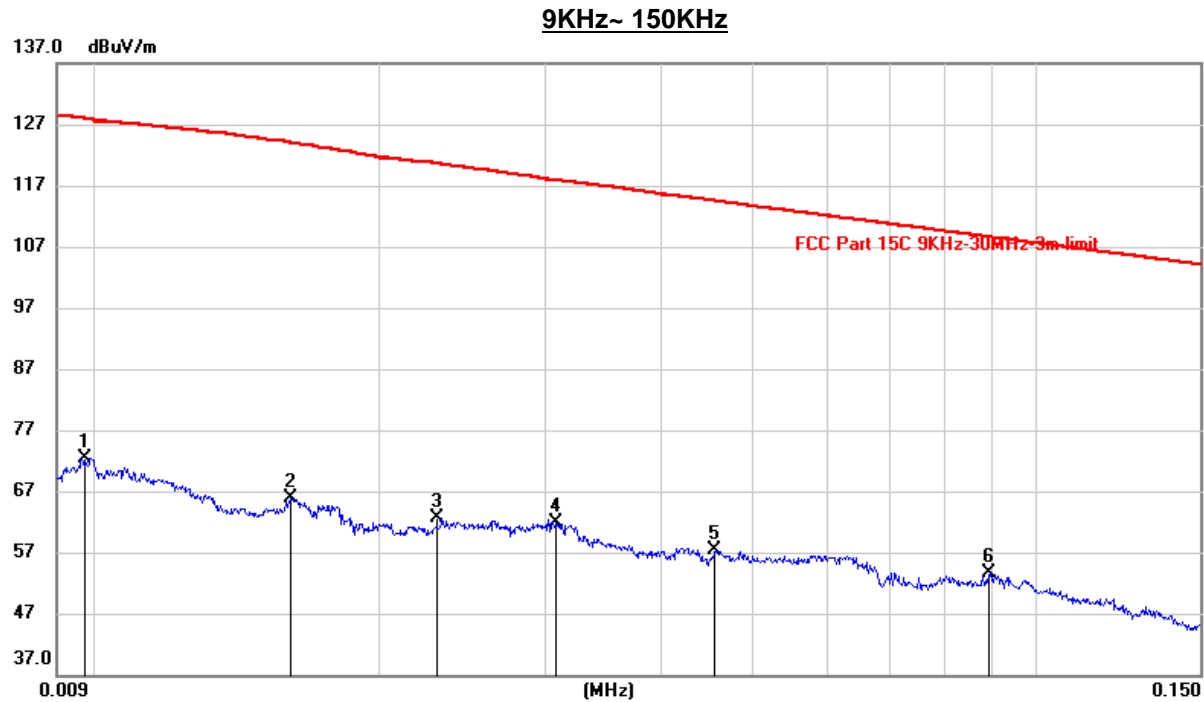
Note: EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



## 8.6. SPURIOUS EMISSIONS BELOW 30M

### 8.6.1. 802.11n HT20 CDD MODE

#### SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

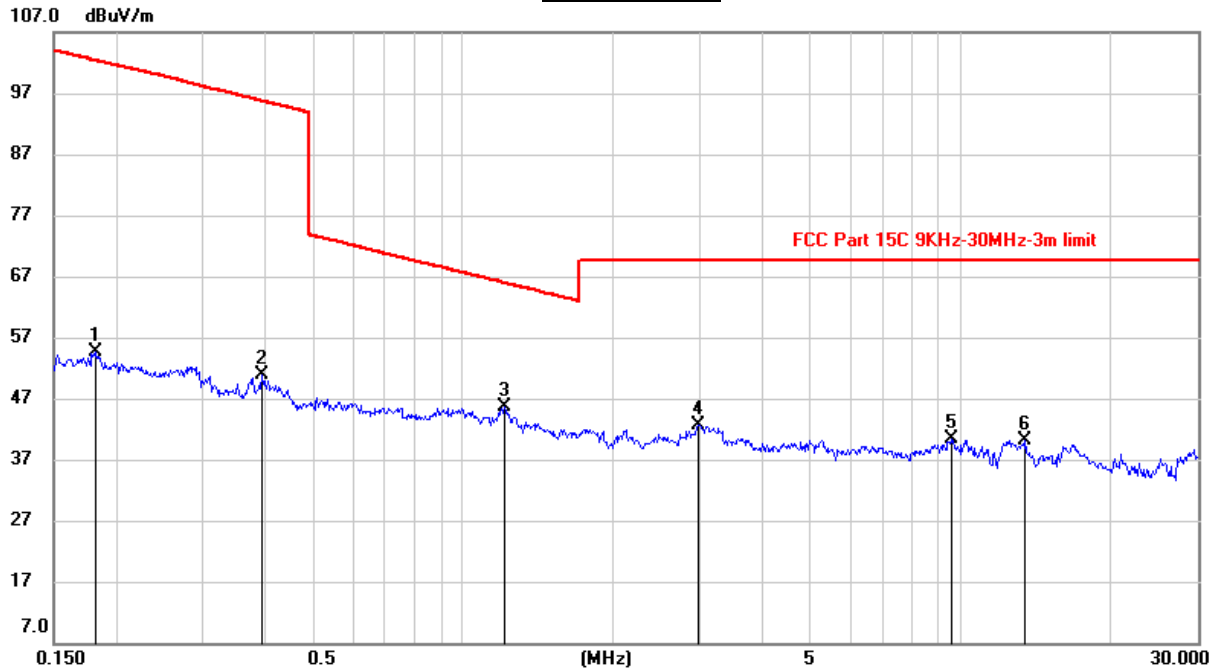


No.	Frequency (KHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0097	52.20	20.23	72.43	127.83	-55.40	peak
2	0.0160	45.49	20.27	65.76	123.99	-58.23	peak
3	0.0229	42.37	20.31	62.68	120.56	-57.88	peak
4	0.0307	41.59	20.31	61.90	117.89	-55.99	peak
5	0.0454	37.09	20.31	57.40	114.51	-57.11	peak
6	0.0892	33.45	20.25	53.70	108.60	-54.90	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 ~ 30M**

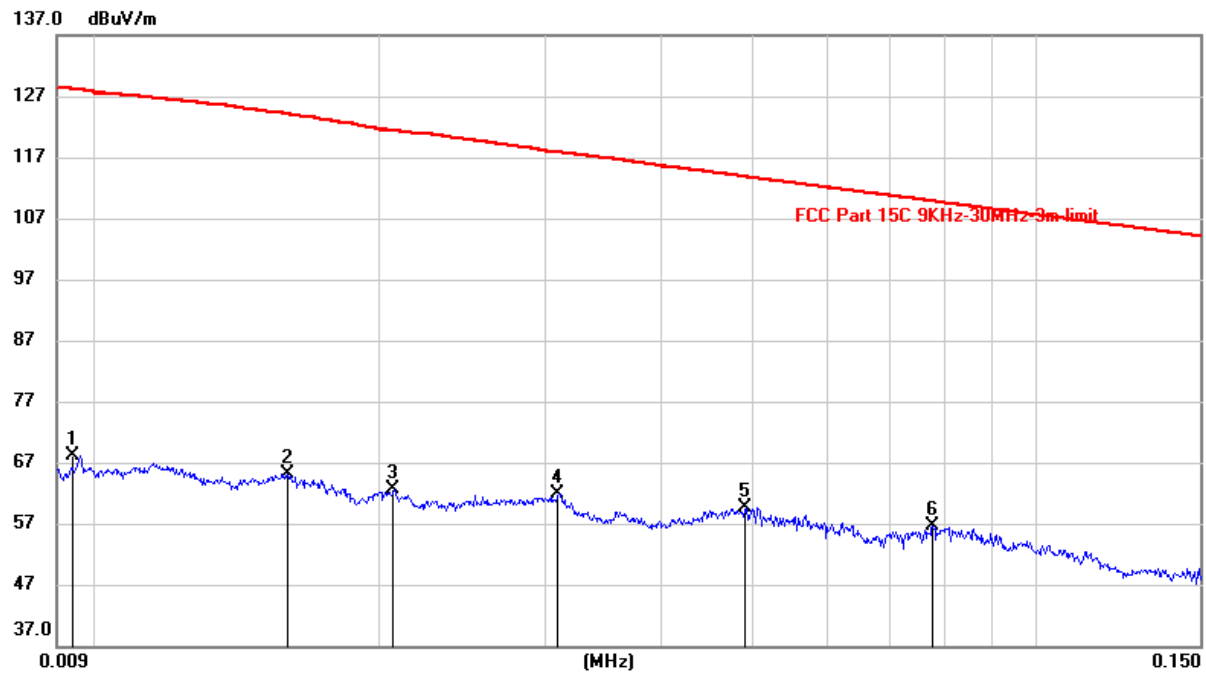


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1833	34.33	20.39	54.72	102.34	-47.62	peak
2	0.3933	30.49	20.27	50.76	95.73	-44.97	peak
3	1.2157	25.20	20.44	45.64	65.91	-20.27	peak
4	2.9618	21.77	20.89	42.66	69.54	-26.88	peak
5	9.5518	19.31	21.04	40.35	69.54	-29.19	peak
6	13.4792	19.13	20.97	40.10	69.54	-29.44	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.

**SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)**

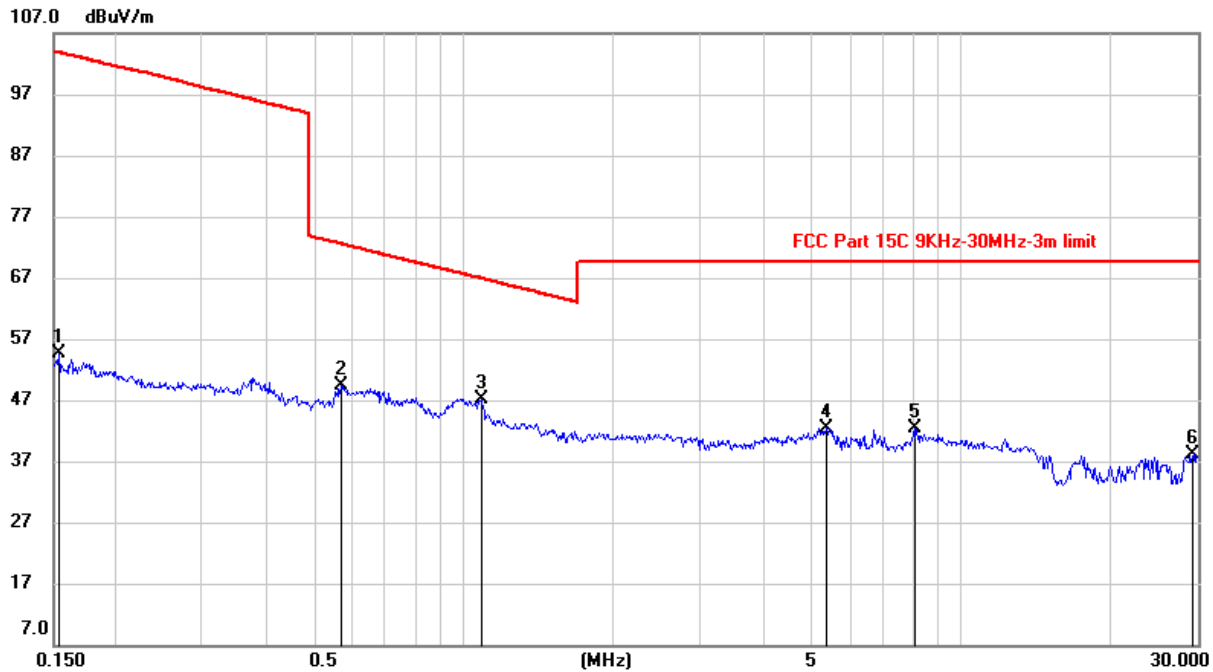
**9KHz~ 150KHz**



No.	Frequency (KHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0094	47.90	20.26	68.16	128.06	-59.90	peak
2	0.0159	44.78	20.27	65.05	124.05	-59.00	peak
3	0.0206	42.29	20.31	62.60	121.37	-58.77	peak
4	0.0309	41.61	20.31	61.92	117.84	-55.92	peak
5	0.0490	39.28	20.31	59.59	113.81	-54.22	peak
6	0.0777	36.34	20.30	56.64	109.81	-53.17	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 ~ 30M**



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1539	34.32	20.42	54.74	103.86	-49.12	peak
2	0.5670	29.05	20.27	49.32	72.57	-23.25	peak
3	1.0881	26.74	20.41	47.15	66.88	-19.73	peak
4	5.3900	21.56	20.84	42.40	69.54	-27.14	peak
5	8.0624	21.39	20.97	42.36	69.54	-27.18	peak
6	29.3704	16.23	21.94	38.17	69.54	-31.37	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: EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

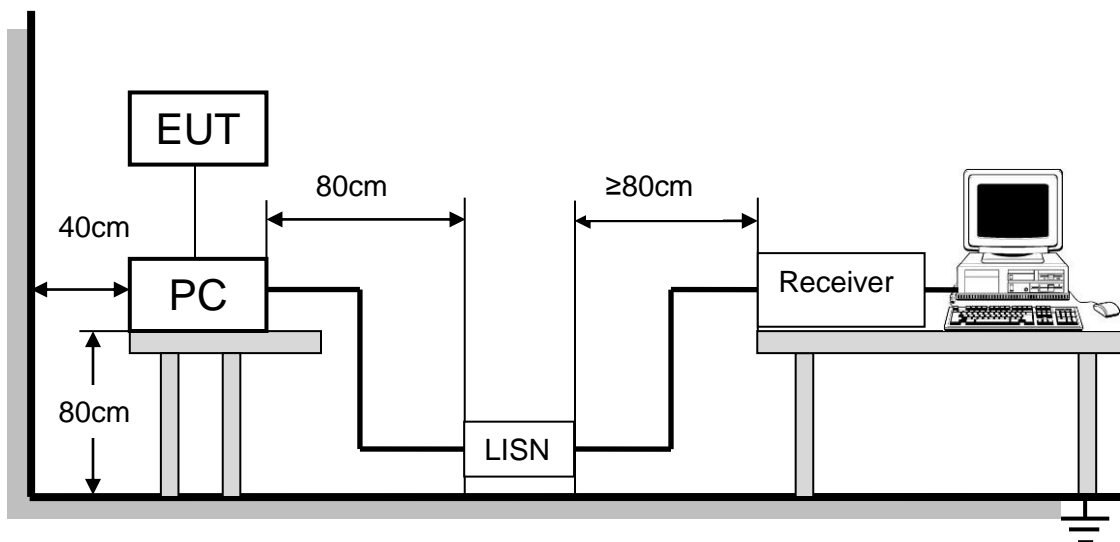
## 9. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

Please refer to FCC §15.207 (a) and RSS-Gen Clause 8.8.

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

### TEST SETUP AND PROCEDURE

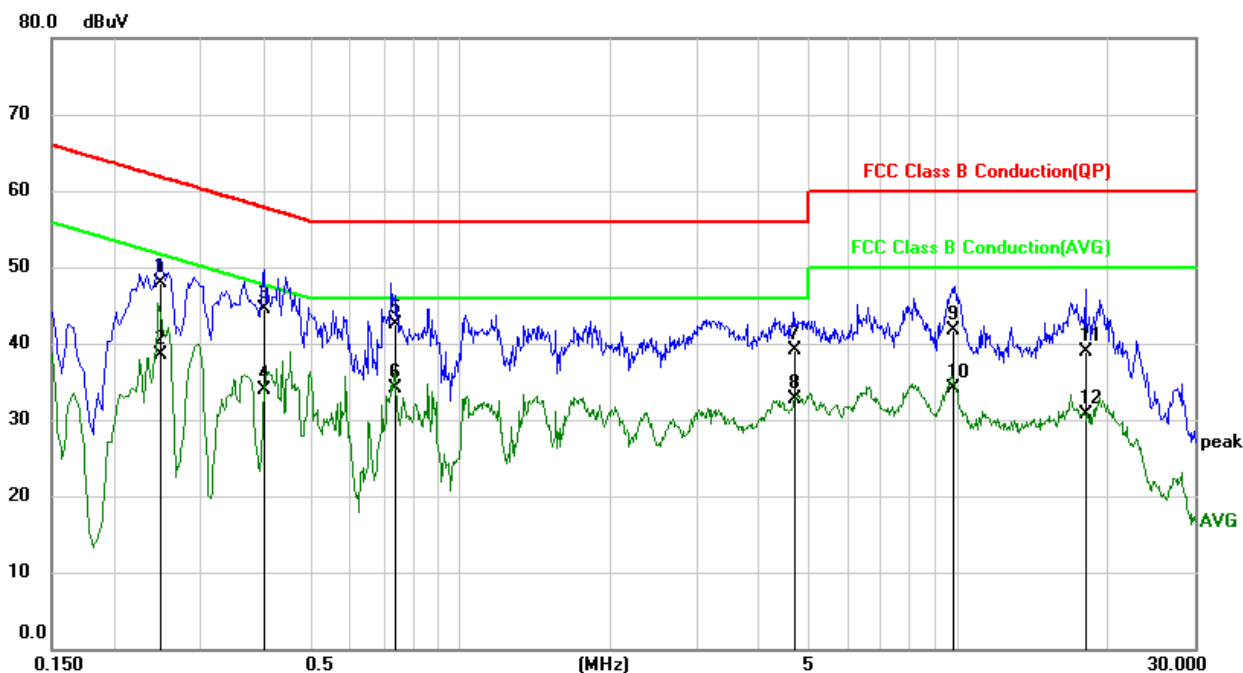


The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 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.

**9.1.1. 802.11n20 CDD MODE**

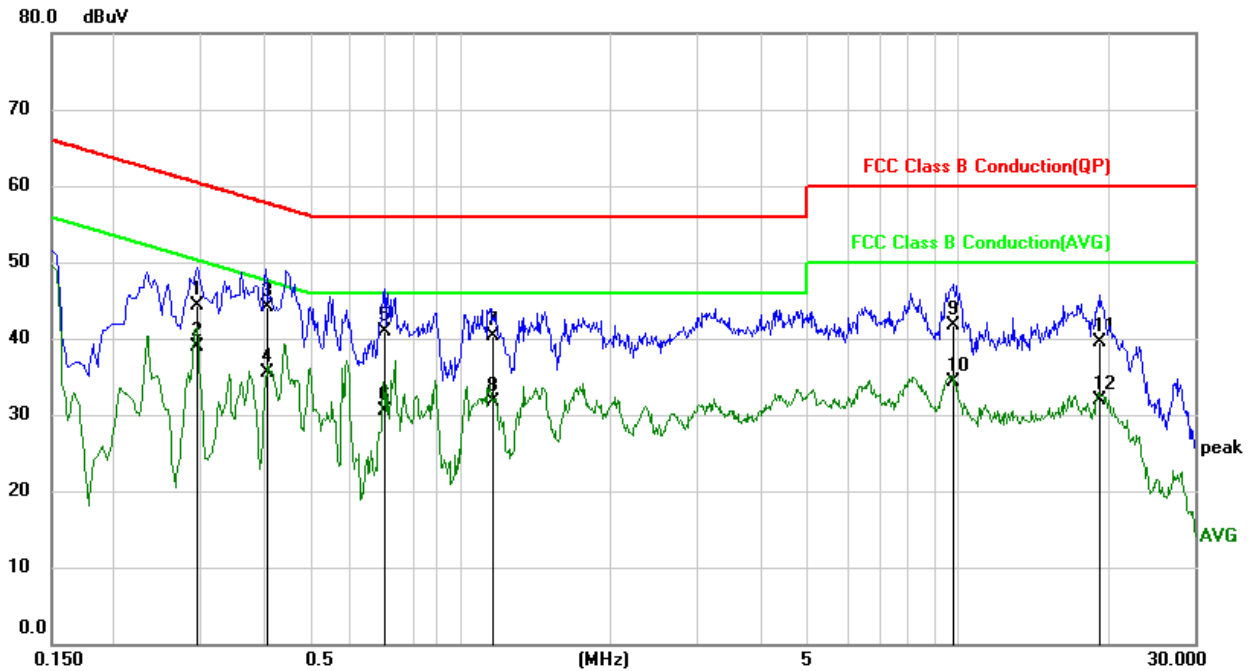
**LINE N RESULTS (LOW CHANNEL, WORST-CASE CONFIGURATION)**



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2489	38.22	9.64	47.86	61.79	-13.93	QP
2	0.2489	28.83	9.64	38.47	51.79	-13.32	AVG
3	0.4034	34.81	9.65	44.46	57.78	-13.32	QP
4	0.4034	24.23	9.65	33.88	47.78	-13.90	AVG
5	0.7367	32.89	9.66	42.55	56.00	-13.45	QP
6	0.7367	24.50	9.66	34.16	46.00	-11.84	AVG
7	4.7237	29.32	9.72	39.04	56.00	-16.96	QP
8	4.7237	22.91	9.72	32.63	46.00	-13.37	AVG
9	9.8206	32.00	9.79	41.79	60.00	-18.21	QP
10	9.8206	24.31	9.79	34.10	50.00	-15.90	AVG
11	18.0221	29.07	9.87	38.94	60.00	-21.06	QP
12	18.0221	20.80	9.87	30.67	50.00	-19.33	AVG

- Note: 1. Result = Reading +Correct Factor.  
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

**LINE L RESULTS (LOW CHANNEL, WORST-CASE CONFIGURATION)**



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2931	34.63	9.65	44.28	60.44	-16.16	QP
2	0.2931	29.33	9.65	38.98	50.44	-11.46	AVG
3	0.4097	34.53	9.65	44.18	57.65	-13.47	QP
4	0.4097	25.82	9.65	35.47	47.65	-12.18	AVG
5	0.7053	31.24	9.66	40.90	56.00	-15.10	QP
6	0.7053	20.80	9.66	30.46	46.00	-15.54	AVG
7	1.1625	30.71	9.67	40.38	56.00	-15.62	QP
8	1.1625	22.04	9.67	31.71	46.00	-14.29	AVG
9	9.7542	31.93	9.79	41.72	60.00	-18.28	QP
10	9.7542	24.45	9.79	34.24	50.00	-15.76	AVG
11	19.4048	29.54	9.89	39.43	60.00	-20.57	QP
12	19.4048	21.95	9.89	31.84	50.00	-18.16	AVG

- Note: 1. Result = Reading +Correct Factor.  
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

## 10. 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.

### ANTENNA CONNECTOR

EUT has an external antenna with antenna connector, it will be installed in a specific environment and users cannot change the antenna.

### ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi.

**END OF REPORT**