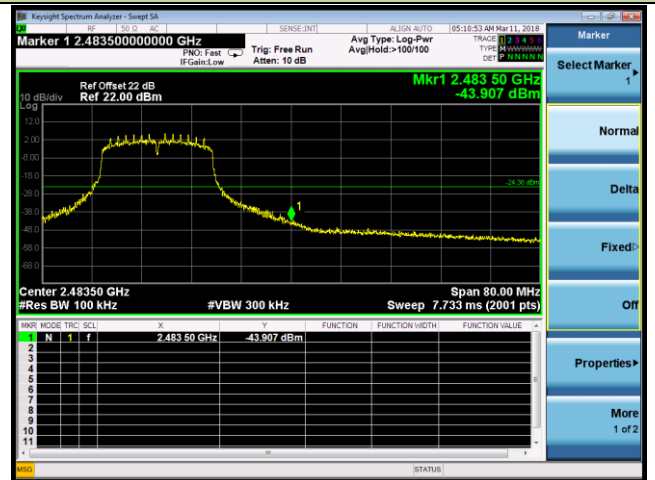


Channel 11 (2462MHz)

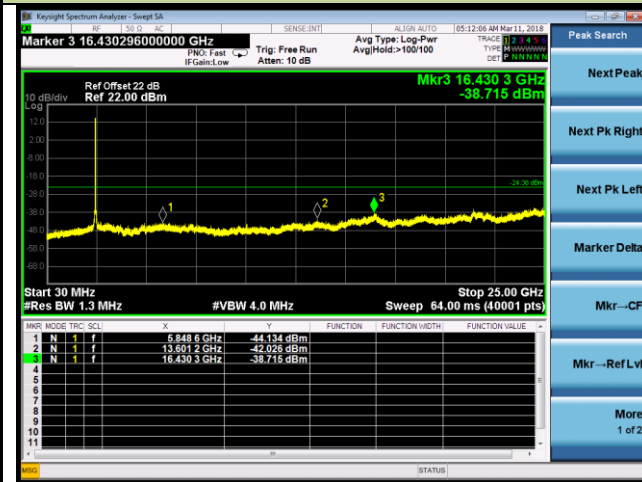
100kHz PSD reference Level



High Band Edge



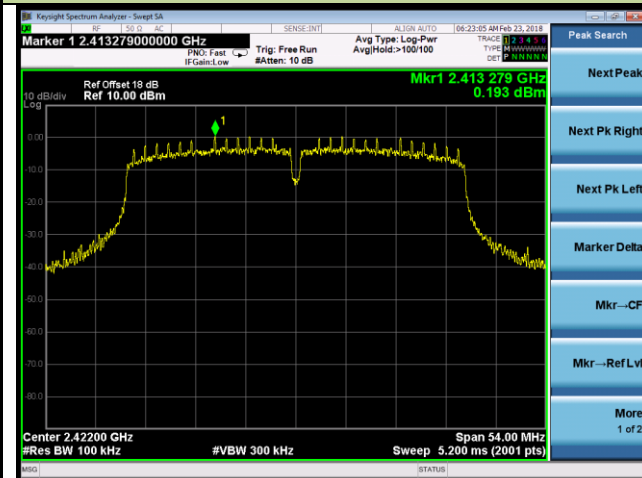
Spurious Emission



802.11n-HT40 Out-of-Band Emissions

Channel 03 (2422MHz)

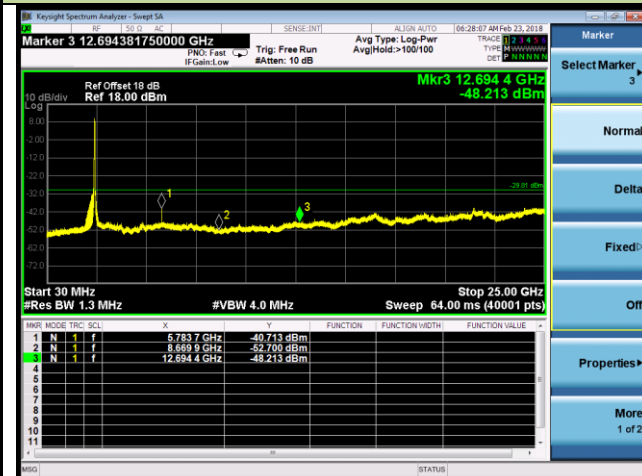
100kHz PSD reference Level



Low Band Edge

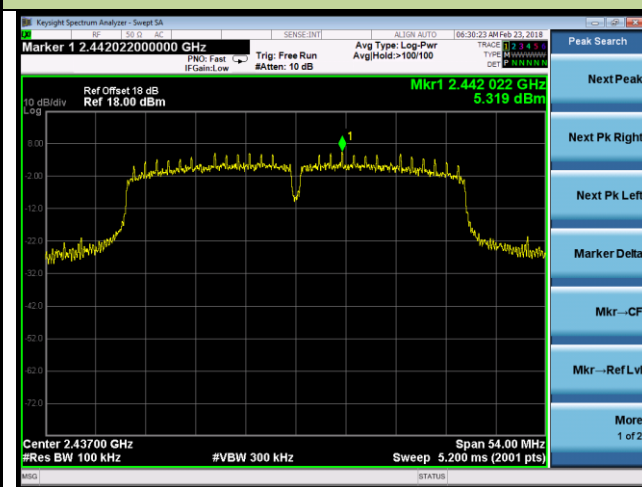


Spurious Emission

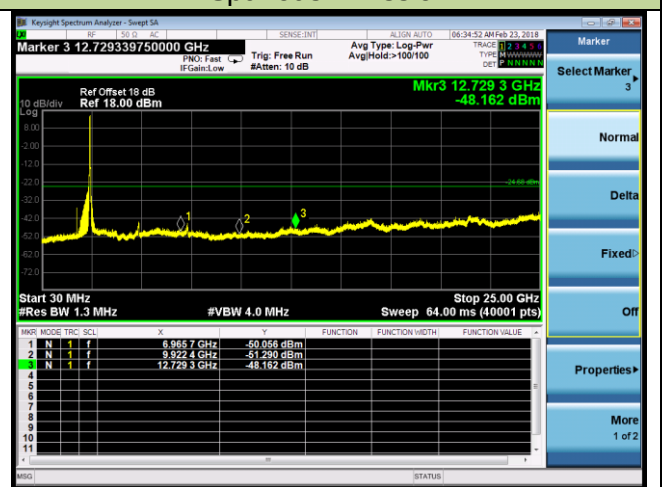


Channel 06 (2437MHz)

100kHz PSD reference Level

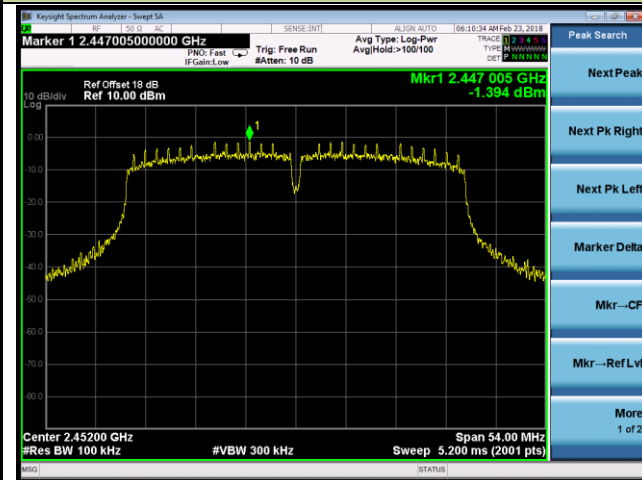


Spurious Emission



Channel 09 (2452MHz)

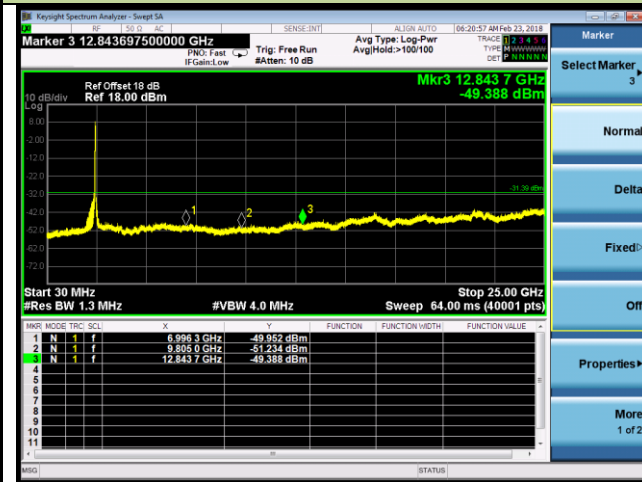
100kHz PSD reference Level



High Band Edge



Spurious Emission



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

KDB 558074 D01v04 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v04 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v04 - Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple

6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

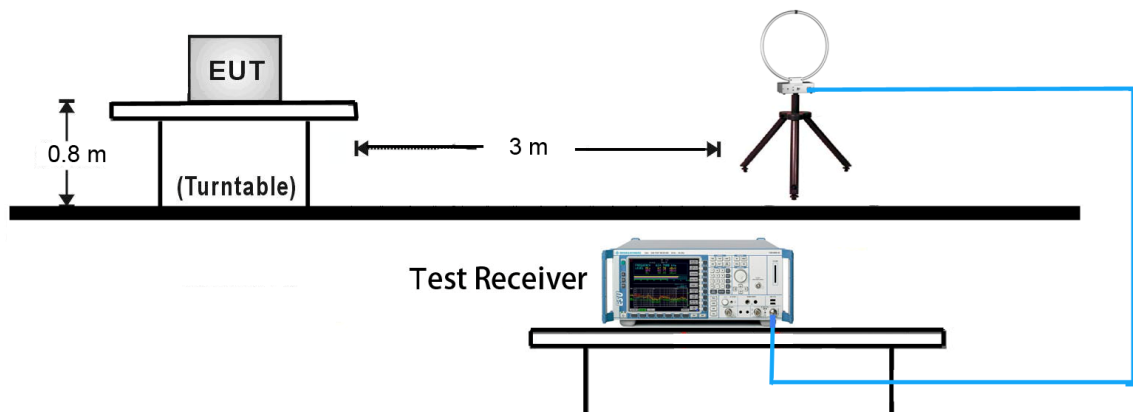
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

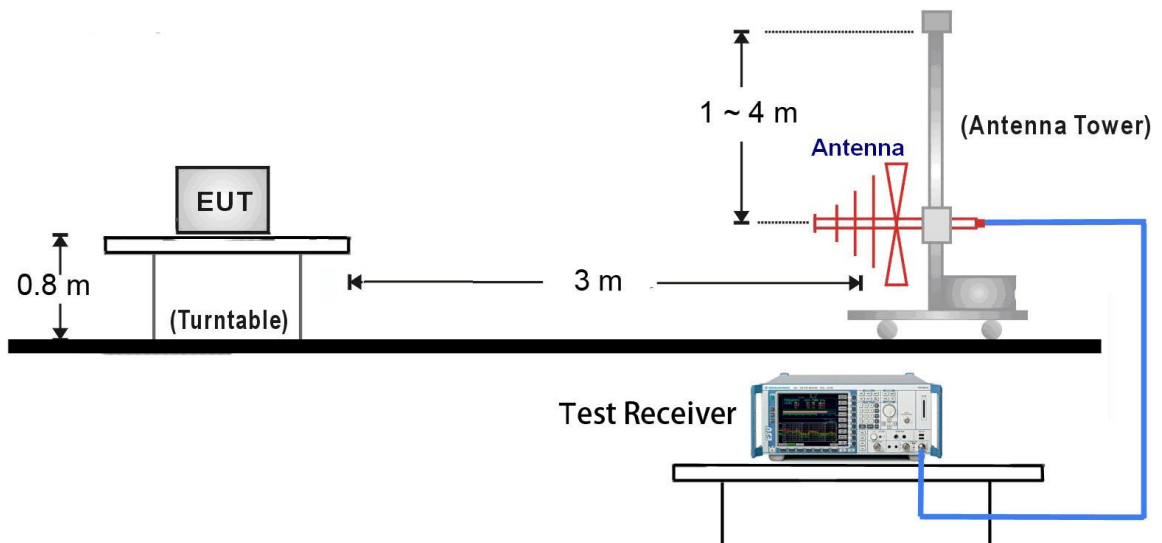
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.6.4.Test Setup

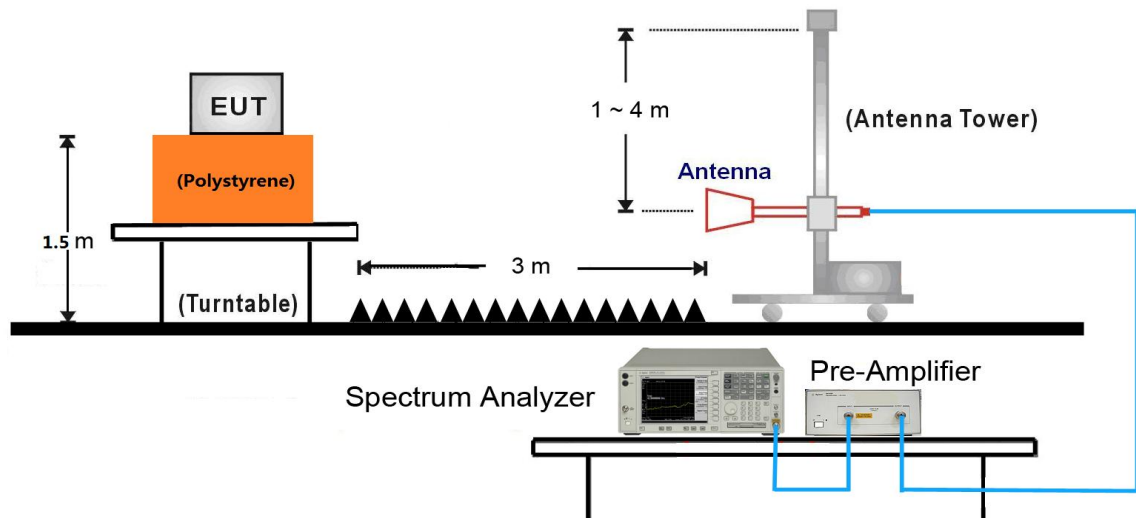
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



1GHz ~ 25GHz Test Setup:



7.6.5.Test Result

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	01	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4824.0	45.3	5.9	51.2	74.0	-22.8	Peak	Horizontal
	7587.5	35.4	12.8	48.2	74.0	-25.8	Peak	Horizontal
*	8769.0	35.4	13.2	48.6	80.5	-31.9	Peak	Horizontal
*	9874.0	33.2	16.8	50.0	80.5	-30.5	Peak	Horizontal
	4824.0	44.4	5.9	50.3	74.0	-23.7	Peak	Vertical
	5054.5	34.9	6.5	41.4	74.0	-32.6	Peak	Vertical
*	7236.0	44.9	12.7	57.6	80.5	-22.9	Peak	Vertical
*	10027.0	33.2	16.6	49.8	80.5	-30.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (110.5dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	06	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4874.0	43.9	6.0	49.9	74.0	-24.1	Peak	Horizontal
	7519.5	35.4	12.8	48.2	74.0	-25.8	Peak	Horizontal
*	8769.0	33.8	13.2	47.0	80.9	-33.9	Peak	Horizontal
*	10086.5	31.9	16.9	48.8	80.9	-32.1	Peak	Horizontal
	4874.0	41.7	6.0	47.7	74.0	-26.3	Peak	Vertical
	7311.0	44.7	12.5	57.2	74.0	-16.8	Peak	Vertical
	7311.0	39.6	12.5	52.1	54.0	-1.9	Average	Vertical
*	8735.0	34.4	13.0	47.4	80.9	-33.5	Peak	Vertical
*	10035.5	32.7	16.7	49.4	80.9	-31.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (110.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	11	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4924.0	44.9	6.1	51.0	74.0	-23.0	Peak	Horizontal
	8463.0	33.3	12.7	46.0	74.0	-28.0	Peak	Horizontal
*	8786.0	33.3	13.3	46.6	80.8	-34.2	Peak	Horizontal
*	9865.5	32.2	16.7	48.9	80.8	-31.9	Peak	Horizontal
	4924.0	43.0	6.1	49.1	74.0	-24.9	Peak	Vertical
	7386.0	45.1	12.6	57.7	74.0	-16.3	Peak	Vertical
	7386.0	39.9	12.6	52.5	54.0	-1.5	Average	Vertical
*	8862.5	34.7	13.3	48.0	80.8	-32.8	Peak	Vertical
*	9848.0	32.9	16.7	49.6	80.8	-31.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (110.8dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	01	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4824.0	42.4	5.9	48.3	74.0	-25.7	Peak	Horizontal
	5037.5	35.4	6.5	41.9	74.0	-32.1	Peak	Horizontal
*	7236.0	36.9	12.7	49.6	82.0	-32.4	Peak	Horizontal
*	10137.5	32.3	17.0	49.3	82.0	-32.7	Peak	Horizontal
	4824.0	42.0	5.9	47.9	74.0	-26.1	Peak	Vertical
	4961.0	33.8	6.1	39.9	74.0	-34.1	Peak	Vertical
*	7236.0	46.7	12.7	59.4	82.0	-22.6	Peak	Vertical
*	8684.0	33.4	13.1	46.5	82.0	-35.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (112.0dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	06	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4874.0	43.3	6.0	49.3	74.0	-24.7	Peak	Horizontal
	7311.0	37.3	12.6	49.9	74.0	-24.1	Peak	Horizontal
*	8726.5	33.0	13.0	46.0	82.6	-36.6	Peak	Horizontal
*	9797.5	31.8	16.2	48.0	82.6	-34.6	Peak	Horizontal
	4874.0	43.0	6.0	49.0	74.0	-25.0	Peak	Vertical
	7311.0	46.5	12.6	59.1	74.0	-14.9	Peak	Vertical
	7311.0	36.8	12.5	49.3	54.0	-4.7	Average	Vertical
*	8760.5	32.6	13.2	45.8	82.6	-36.8	Peak	Vertical
*	10052.5	31.9	16.8	48.7	82.6	-33.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (112.6dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	11	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4924.0	39.1	6.1	45.2	74.0	-28.8	Peak	Horizontal
	7587.5	34.0	12.8	46.8	74.0	-27.2	Peak	Horizontal
*	8828.5	33.2	13.3	46.5	80.2	-33.7	Peak	Horizontal
*	9772.0	32.8	16.2	49.0	80.2	-31.2	Peak	Horizontal
	4924.0	36.9	6.1	43.0	74.0	-31.0	Peak	Vertical
	7386.0	40.1	12.6	52.7	74.0	-21.3	Peak	Vertical
*	8981.5	33.1	13.1	46.2	80.2	-34.0	Peak	Vertical
*	10120.5	32.0	16.9	48.9	80.2	-31.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (110.2dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	01	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4816.5	42.9	5.9	48.8	74.0	-25.2	Peak	Horizontal
	5063.0	34.4	6.5	40.9	74.0	-33.1	Peak	Horizontal
*	7230.5	37.4	12.7	50.1	80.1	-30.0	Peak	Horizontal
*	10069.5	31.8	17.0	48.8	80.1	-31.3	Peak	Horizontal
	4825.0	41.0	5.9	46.9	74.0	-27.1	Peak	Vertical
	5046.0	35.7	6.5	42.2	74.0	-31.8	Peak	Vertical
*	7230.5	47.1	12.7	59.8	80.1	-20.3	Peak	Vertical
*	8658.5	33.5	13.0	46.5	80.1	-33.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (110.1dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	06	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4874.0	42.9	6.0	48.9	74.0	-25.1	Peak	Horizontal
	7451.5	36.3	12.9	49.2	74.0	-24.8	Peak	Horizontal
*	9772.0	33.0	16.2	49.2	81.6	-32.4	Peak	Horizontal
*	10214.0	33.3	17.1	50.4	81.6	-31.2	Peak	Horizontal
	4874.0	40.8	6.0	46.8	74.0	-27.2	Peak	Vertical
	7311.0	48.4	12.5	60.9	74.0	-13.1	Peak	Vertical
	7311.0	35.7	12.5	48.2	54.0	-5.8	Average	Vertical
*	8684.0	32.9	13.1	46.0	81.6	-35.6	Peak	Vertical
*	9780.5	32.7	16.1	48.8	81.6	-32.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (111.6dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	11	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5080.0	36.4	6.5	42.9	74.0	-31.1	Peak	Horizontal
	7596.0	34.2	12.8	47.0	74.0	-27.0	Peak	Horizontal
*	8684.0	34.8	13.1	47.9	79.1	-31.2	Peak	Horizontal
*	9857.0	34.1	16.7	50.8	79.1	-28.3	Peak	Horizontal
	5054.5	35.9	6.5	42.4	74.0	-31.6	Peak	Vertical
	7383.5	38.9	12.6	51.5	74.0	-22.5	Peak	Vertical
*	8743.5	34.2	13.1	47.3	79.1	-31.8	Peak	Vertical
*	10231.0	32.9	17.1	50.0	79.1	-29.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (109.1dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT40	Test Site:	AC1
Test Channel:	03	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5020.5	35.5	6.4	41.9	74.0	-32.1	Peak	Horizontal
	7579.0	33.4	12.8	46.2	74.0	-27.8	Peak	Horizontal
*	8811.5	32.8	13.3	46.1	74.9	-28.8	Peak	Horizontal
*	9670.0	32.1	15.4	47.5	74.9	-27.4	Peak	Horizontal
	5020.5	36.0	6.4	42.4	74.0	-31.6	Peak	Vertical
	7536.5	34.9	12.9	47.8	74.0	-26.2	Peak	Vertical
*	8692.5	33.9	13.0	46.9	74.9	-28.0	Peak	Vertical
*	9891.0	32.2	16.6	48.8	74.9	-26.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (104.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT40	Test Site:	AC1
Test Channel:	06	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4874.0	39.6	6.0	45.6	74.0	-28.4	Peak	Horizontal
	7647.0	33.7	12.7	46.4	74.0	-27.6	Peak	Horizontal
*	8692.5	35.1	13.0	48.1	79.5	-31.4	Peak	Horizontal
*	9857.0	33.5	16.7	50.2	79.5	-29.3	Peak	Horizontal
	4874.0	38.9	6.0	44.9	74.0	-29.1	Peak	Vertical
	7311.0	45.1	12.5	57.6	74.0	-16.4	Peak	Vertical
	7311.0	33.7	12.5	46.2	54.0	-7.8	Average	Vertical
*	8692.5	33.9	13.0	46.9	79.5	-32.6	Peak	Vertical
*	10061.0	33.3	16.9	50.2	79.5	-29.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (109.5dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT40	Test Site:	AC1
Test Channel:	09	Test Engineer:	Snake Ni
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5080.0	35.8	6.5	42.3	74.0	-31.7	Peak	Horizontal
	7341.0	37.3	12.7	50.0	74.0	-24.0	Peak	Horizontal
*	8828.5	33.6	13.3	46.9	74.0	-27.1	Peak	Horizontal
*	9874.0	32.5	16.8	49.3	74.0	-24.7	Peak	Horizontal
	5054.5	36.6	6.5	43.1	74.0	-30.9	Peak	Vertical
	7400.5	34.7	12.6	47.3	74.0	-26.7	Peak	Vertical
*	8777.5	33.7	13.2	46.9	74.0	-27.1	Peak	Vertical
*	9721.0	32.8	15.7	48.5	74.0	-25.5	Peak	Vertical

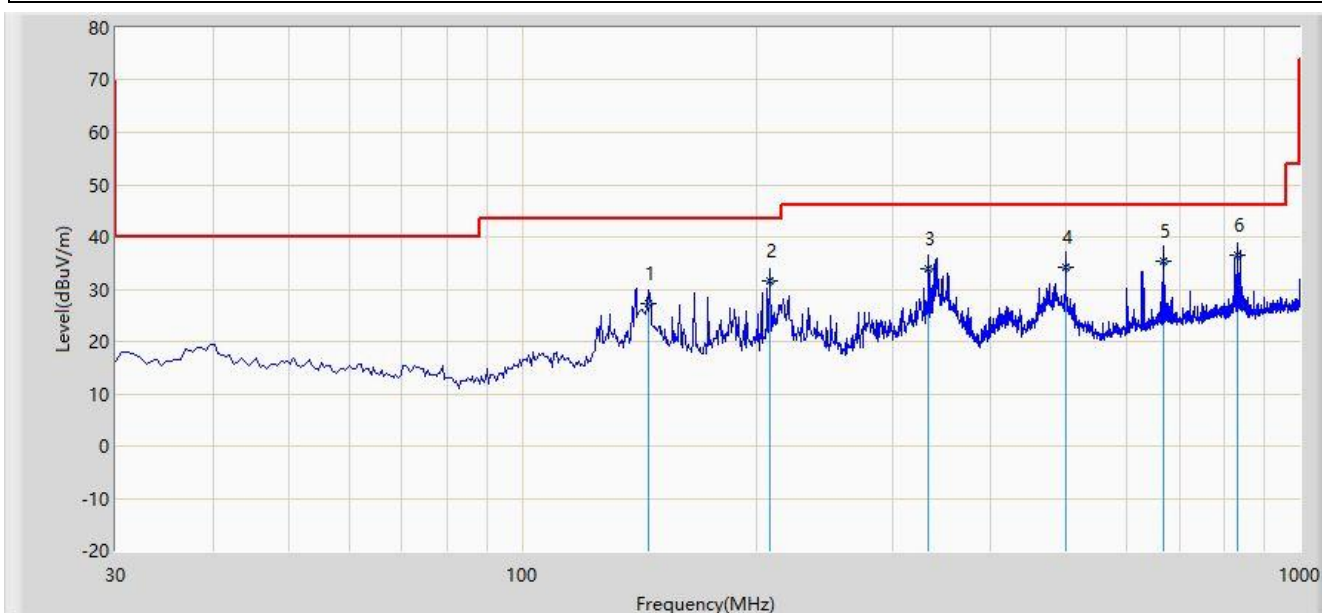
Note 1: “*” is not in restricted band, its limit is 30dBc of the fundamental emission level (103.0dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The worst case of Radiated Emission below 1GHz:

Site: AC1	Time: 2018/02/28 - 14:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: VULB 9168_20-2000MHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Worst Case Mode: Transmit at Channel 2412MHz by 802.11b	



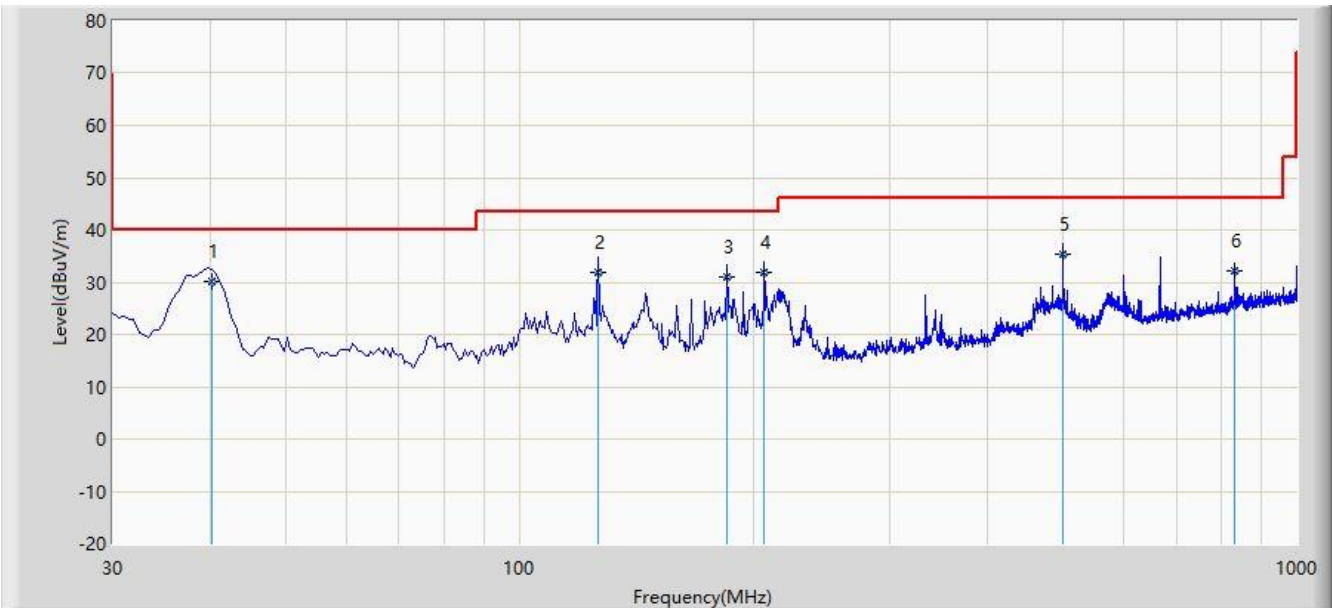
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			145.430	27.221	12.254	-16.279	43.500	14.967	QP
2			207.995	31.708	20.342	-11.792	43.500	11.365	QP
3			333.125	33.886	18.647	-12.114	46.000	15.239	QP
4			499.965	34.257	15.688	-11.743	46.000	18.570	QP
5			666.805	35.336	13.647	-10.664	46.000	21.688	QP
6		*	833.645	36.476	12.862	-9.524	46.000	23.614	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 30dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

Site: AC1	Time: 2018/02/28 - 14:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: VULB 9168_20-2000MHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Worst Case Mode: Transmit at Channel 2412MHz by 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	40.190	30.030	15.424	-9.970	40.000	14.607	QP
2			126.515	31.993	18.364	-11.507	43.500	13.629	QP
3			185.200	30.935	18.638	-12.565	43.500	12.297	QP
4			206.540	31.899	20.567	-11.601	43.500	11.332	QP
5			499.965	35.426	16.857	-10.574	46.000	18.570	QP
6			833.645	32.188	8.574	-13.812	46.000	23.614	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

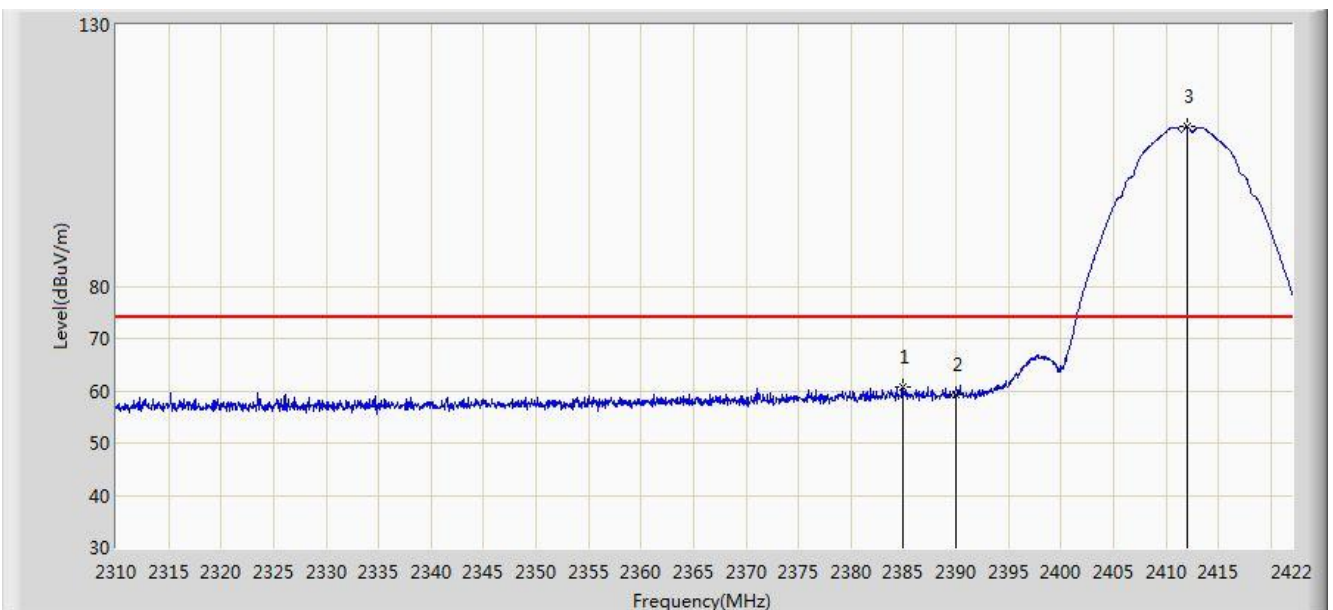
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 30dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Result

Site: AC1	Time: 2017/12/25 - 23:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11b at Channel 2412MHz	

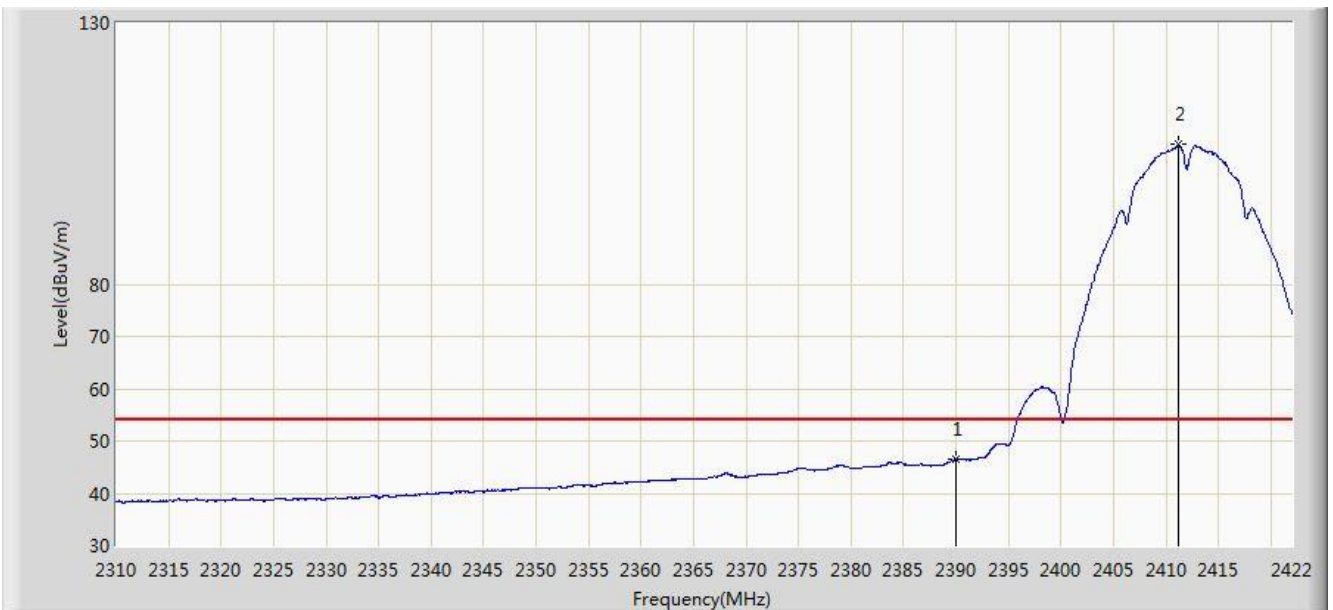


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.928	60.862	28.528	-13.138	74.000	32.334	PK
2			2390.000	59.177	26.850	-14.823	74.000	32.327	PK
3		*	2411.976	110.482	78.197	N/A	N/A	32.285	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 00:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11b at Channel 2412MHz	

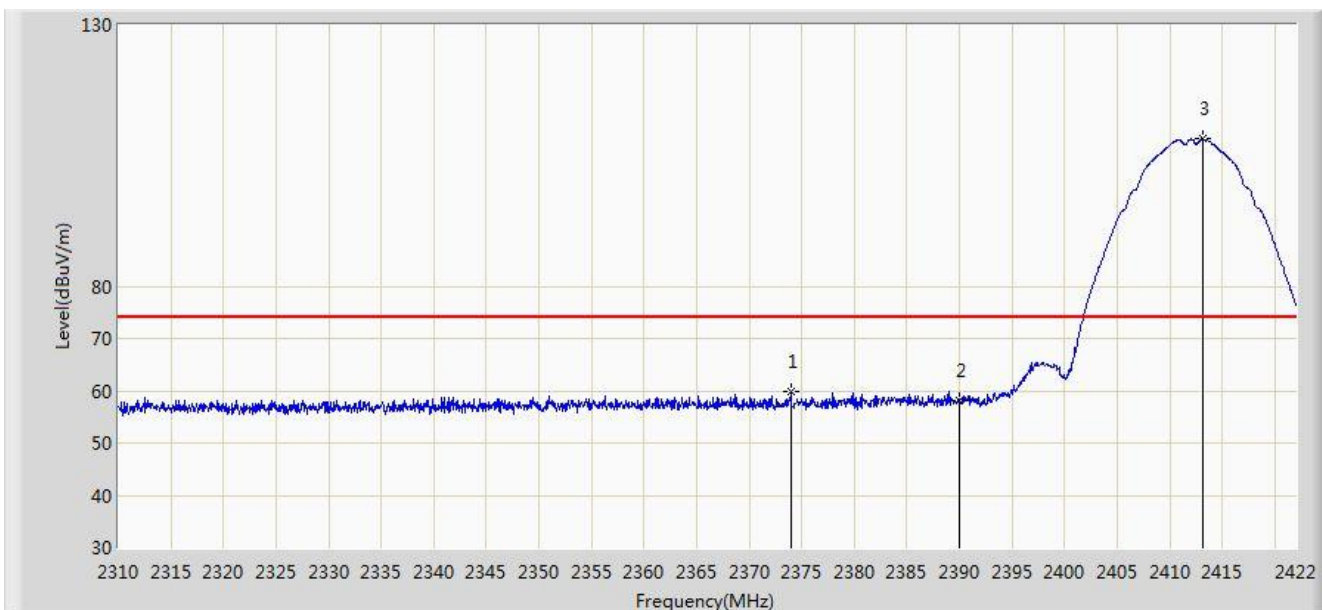


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.511	14.184	-7.489	54.000	32.327	AV
2		*	2411.136	106.669	74.384	N/A	N/A	32.285	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 00:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11b at Channel 2412MHz	

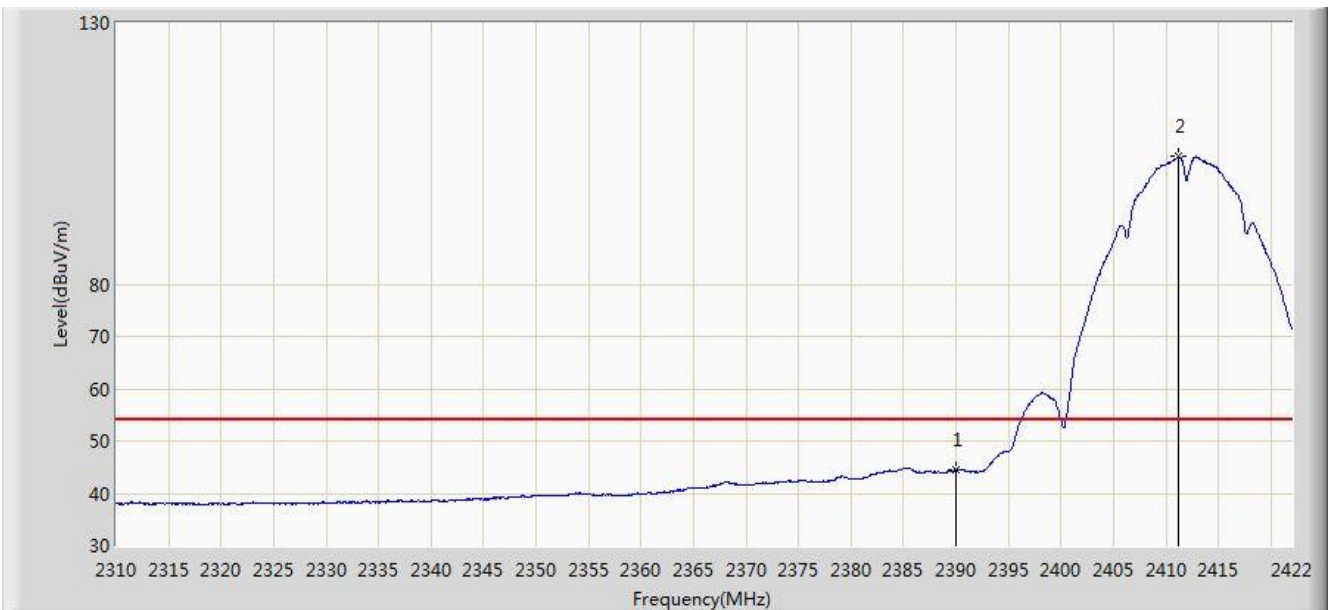


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2374.008	59.777	27.427	-14.223	74.000	32.350	PK
2			2390.000	58.015	25.688	-15.985	74.000	32.327	PK
3		*	2413.152	108.134	75.850	N/A	N/A	32.284	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 00:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11b at Channel 2412MHz	

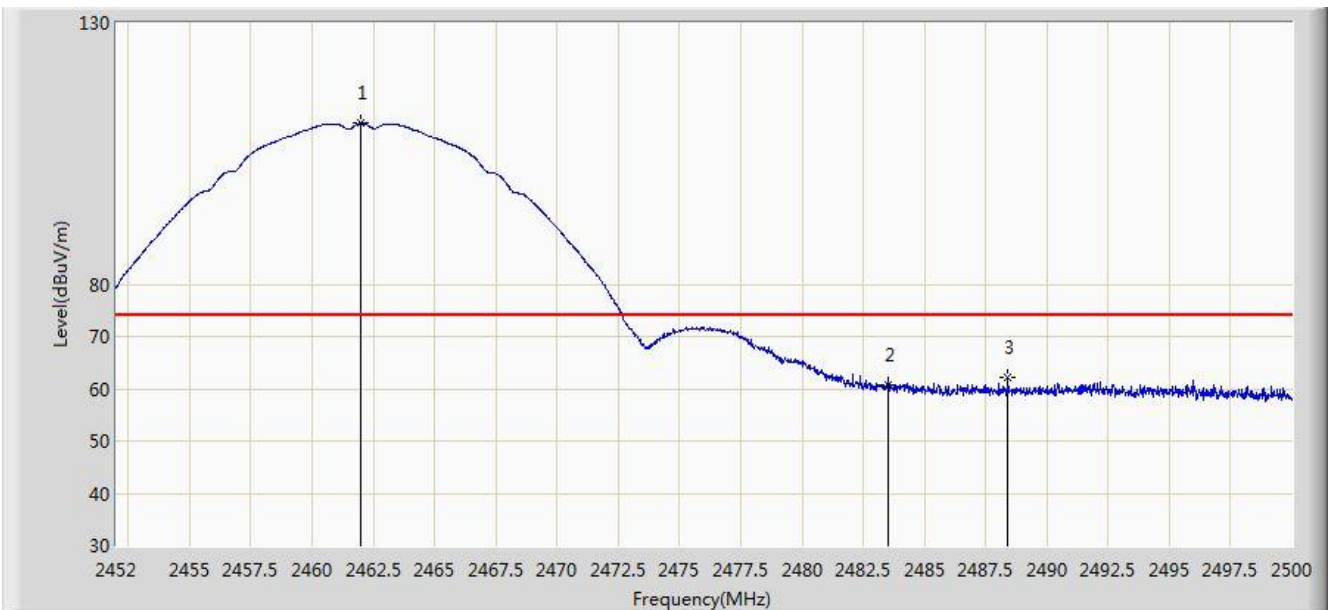


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	44.499	12.172	-9.501	54.000	32.327	AV
2		*	2411.192	104.478	72.193	N/A	N/A	32.285	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 00:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11b at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.984	110.800	78.520	N/A	N/A	32.280	PK
2			2483.500	60.652	28.313	-13.348	74.000	32.340	PK
3			2488.408	62.142	29.784	-11.858	74.000	32.358	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 00:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11b at Channel 2462MHz	

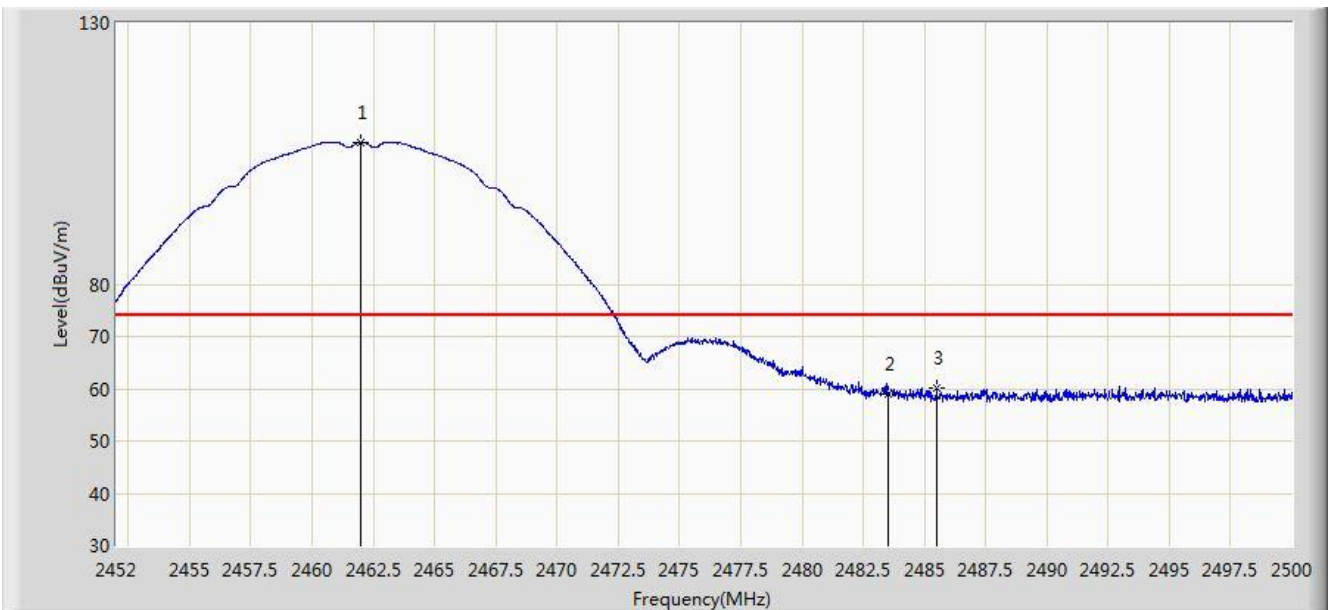


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.264	107.249	74.970	N/A	N/A	32.279	AV
2			2483.500	48.434	16.095	-5.566	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 00:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11b at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.008	107.226	74.946	N/A	N/A	32.280	PK
2			2483.500	58.958	26.619	-15.042	74.000	32.340	PK
3			2485.504	60.220	27.873	-13.780	74.000	32.347	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 00:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11b at Channel 2462MHz	

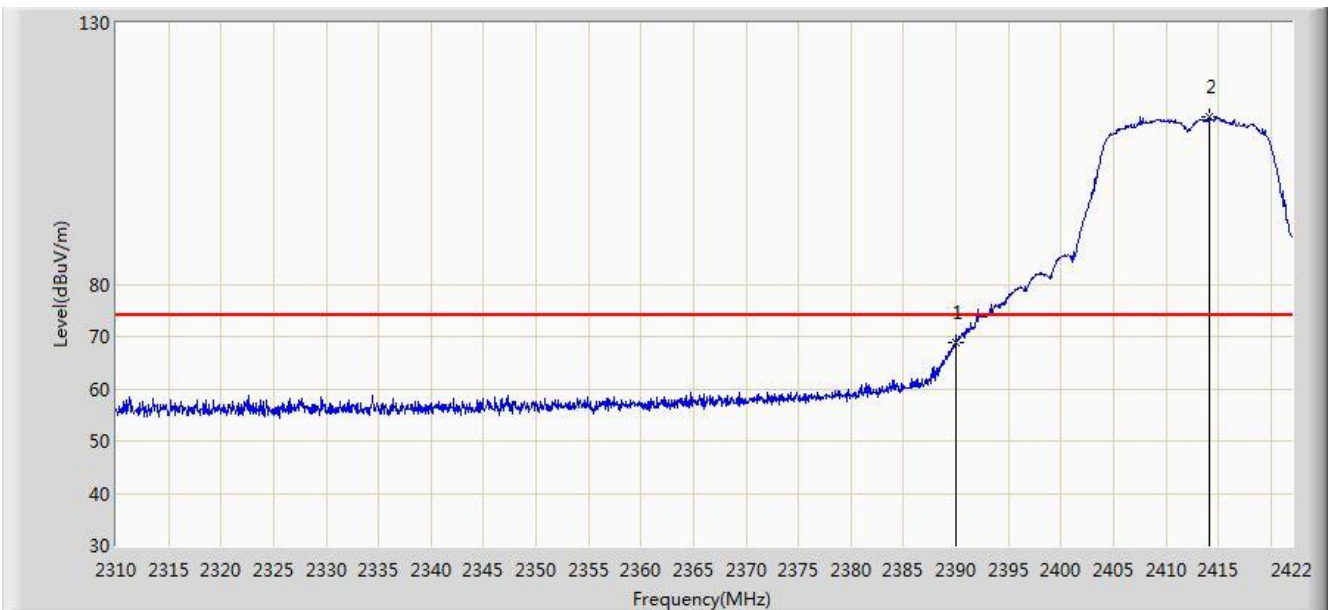


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.168	103.738	71.459	N/A	N/A	32.279	AV
2			2483.500	45.773	13.434	-8.227	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11g at Channel 2412MHz	

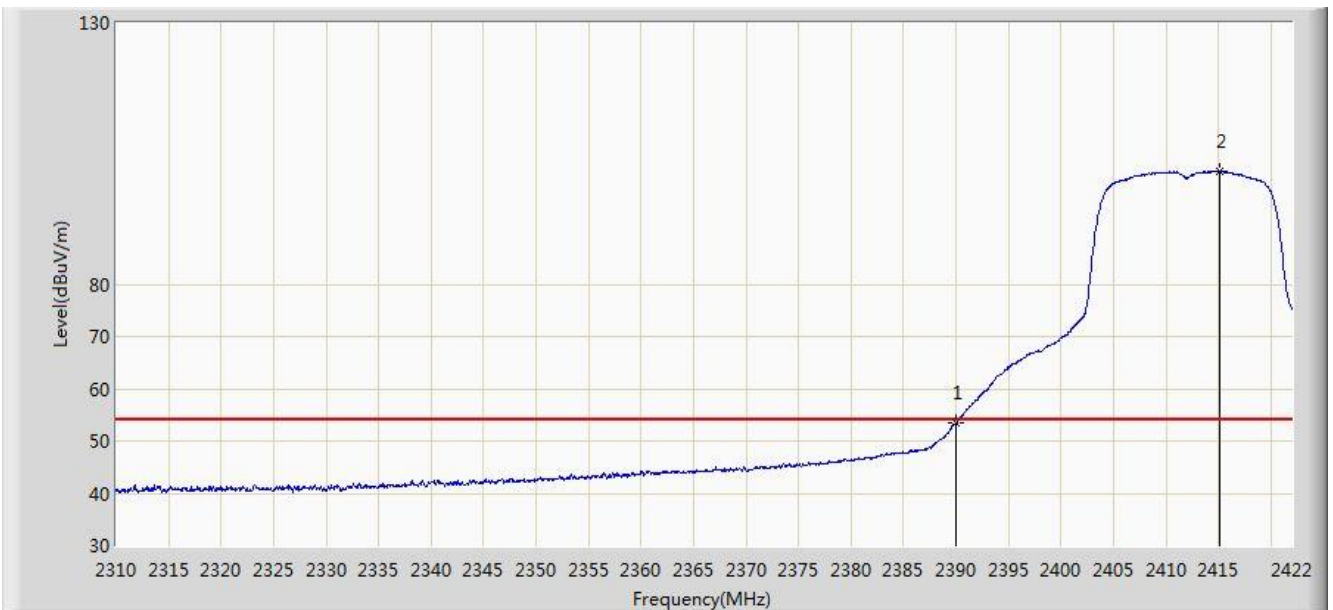


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	68.963	36.636	-5.037	74.000	32.327	PK
2		*	2414.104	111.978	79.694	N/A	N/A	32.284	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11g at Channel 2412MHz	

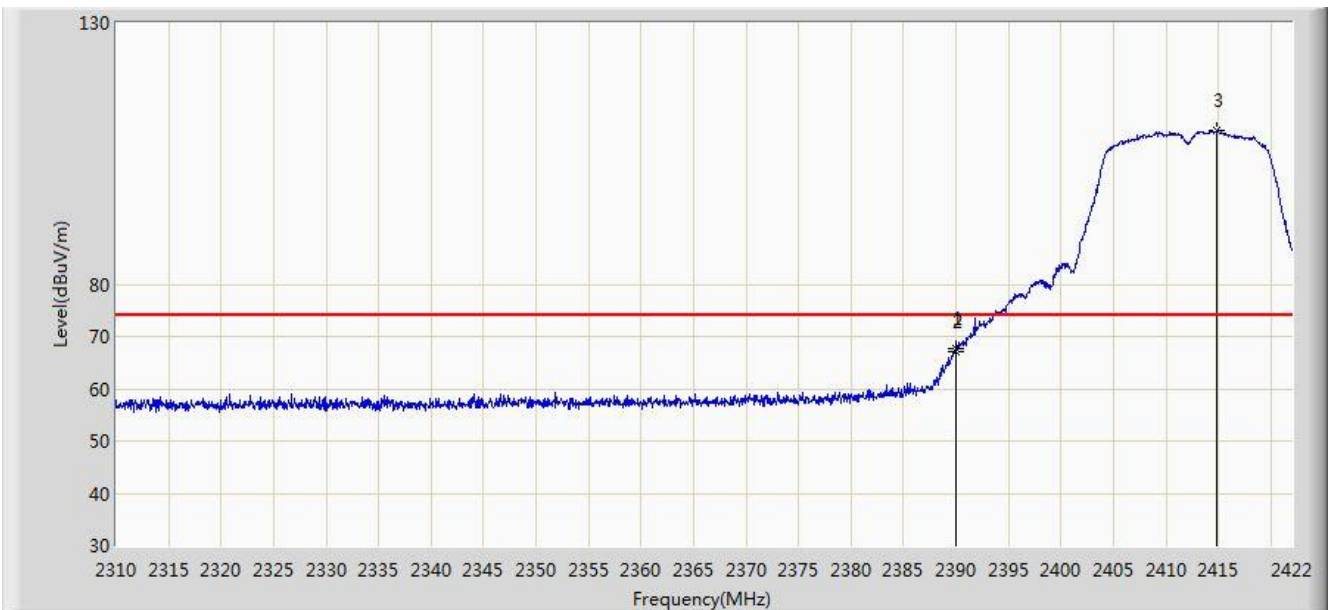


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.494	21.167	-0.506	54.000	32.327	AV
2		*	2415.168	101.556	69.273	N/A	N/A	32.283	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11g at Channel 2412MHz	

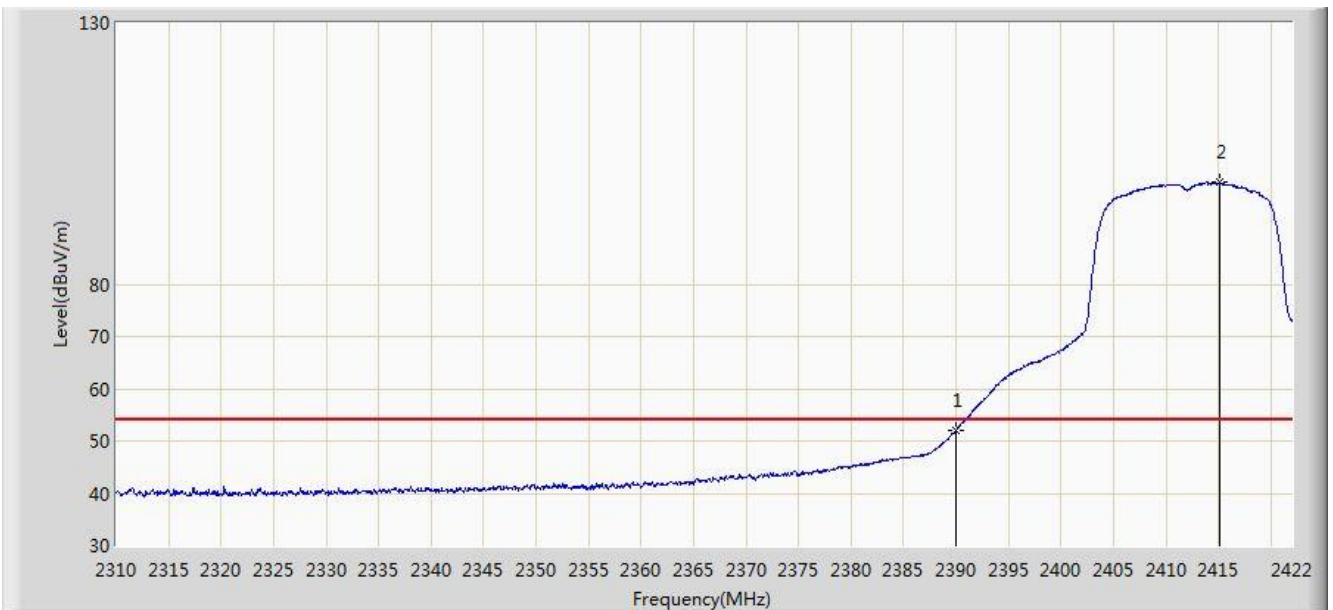


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.968	67.742	35.415	-6.258	74.000	32.327	PK
2			2390.000	67.101	34.774	-6.899	74.000	32.327	PK
3		*	2414.888	109.420	77.136	N/A	N/A	32.284	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:08
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11g at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.074	19.747	-1.926	54.000	32.327	AV
2		*	2415.112	99.511	67.227	N/A	N/A	32.284	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11g at Channel 2462MHz	

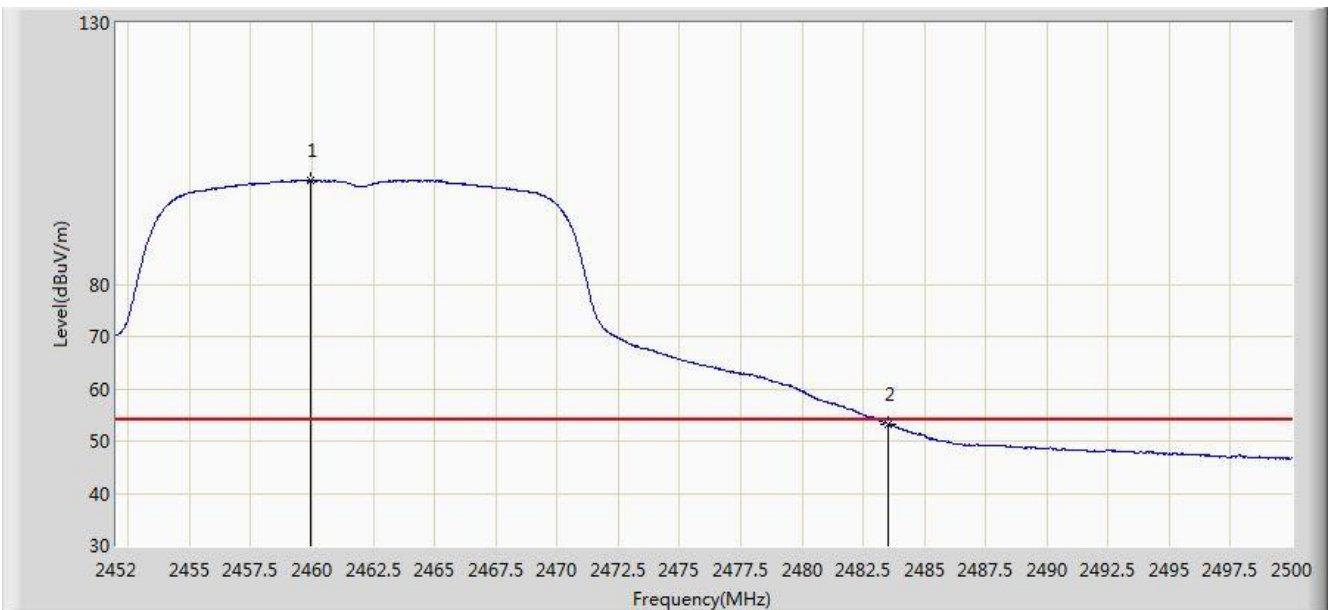


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.904	110.249	77.965	N/A	N/A	32.283	PK
2			2483.500	68.110	35.771	-5.890	74.000	32.340	PK
3			2483.704	69.366	37.026	-4.634	74.000	32.340	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11g at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.920	99.875	67.599	N/A	N/A	32.276	AV
2			2483.500	53.326	20.987	-0.674	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11g at Channel 2462MHz	

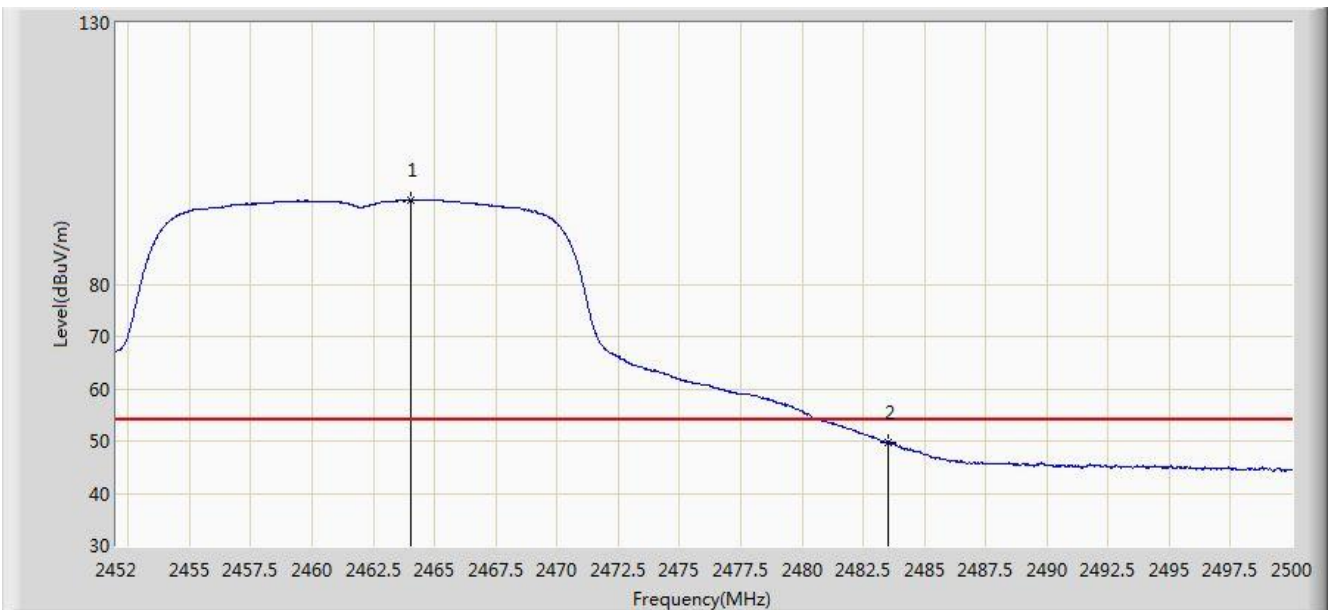


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.240	106.597	74.313	N/A	N/A	32.285	PK
2			2483.500	65.358	33.019	-8.642	74.000	32.340	PK
3			2483.584	65.871	33.532	-8.129	74.000	32.340	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11g at Channel 2462MHz	

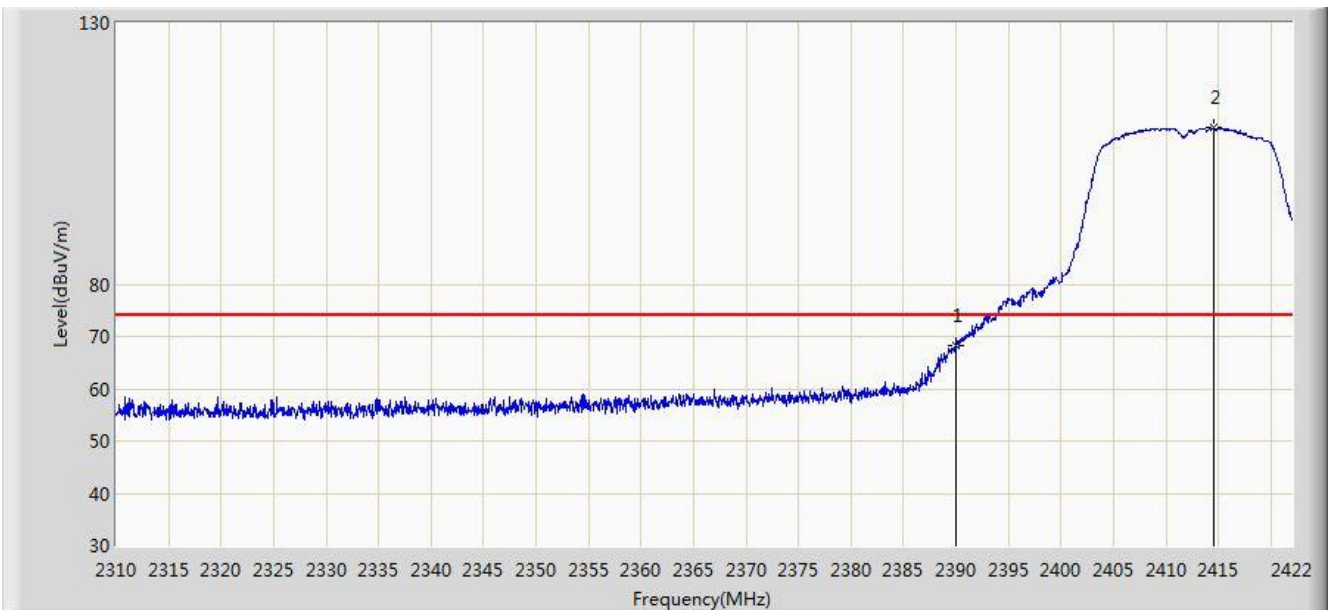


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.048	96.055	63.771	N/A	N/A	32.283	AV
2			2483.500	49.814	17.475	-4.186	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	

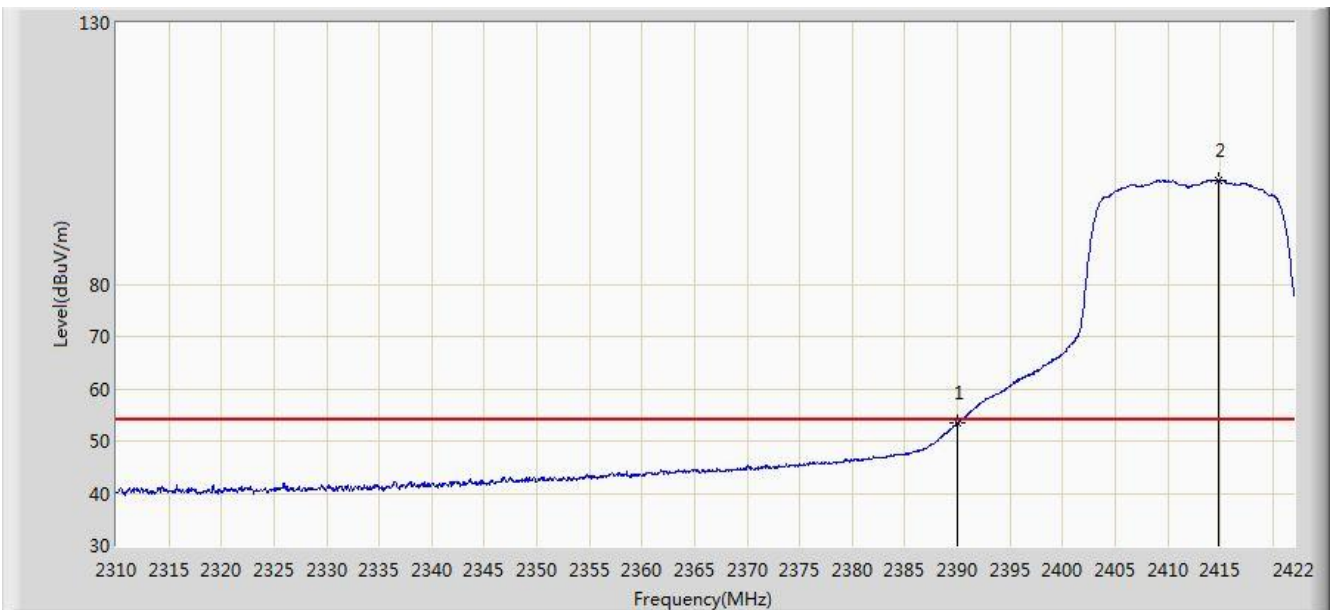


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	68.357	36.030	-5.643	74.000	32.327	PK
2		*	2414.608	110.097	77.813	N/A	N/A	32.284	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	

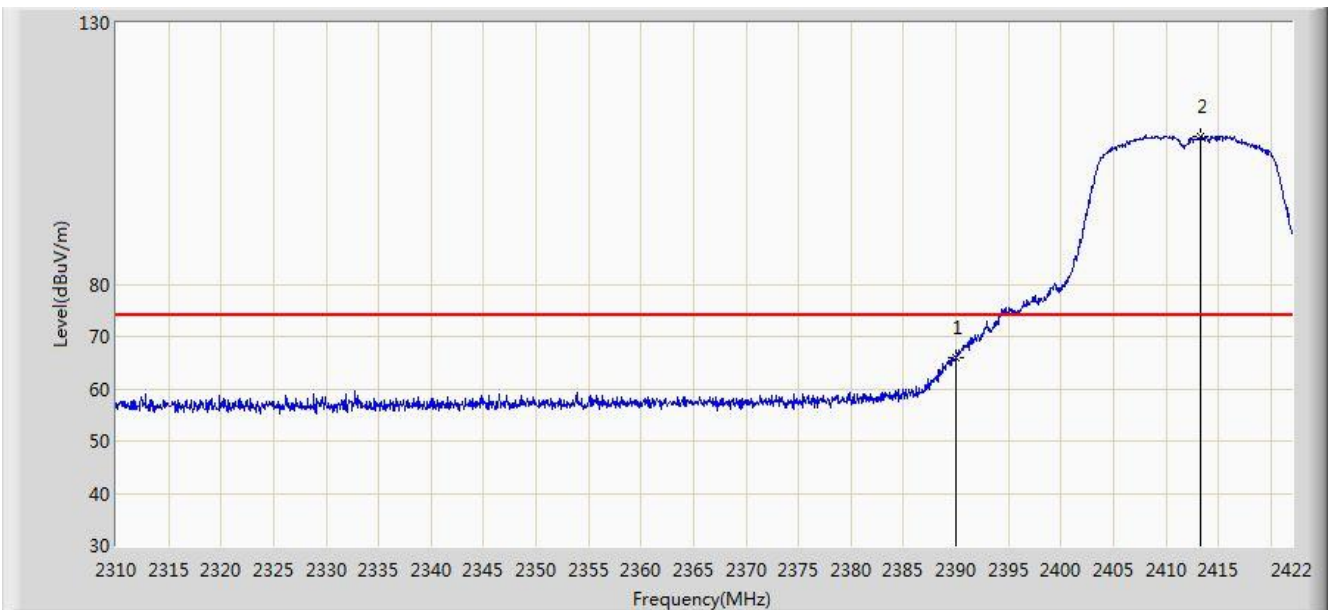


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.424	21.097	-0.576	54.000	32.327	AV
2		*	2414.888	99.955	67.671	N/A	N/A	32.284	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	

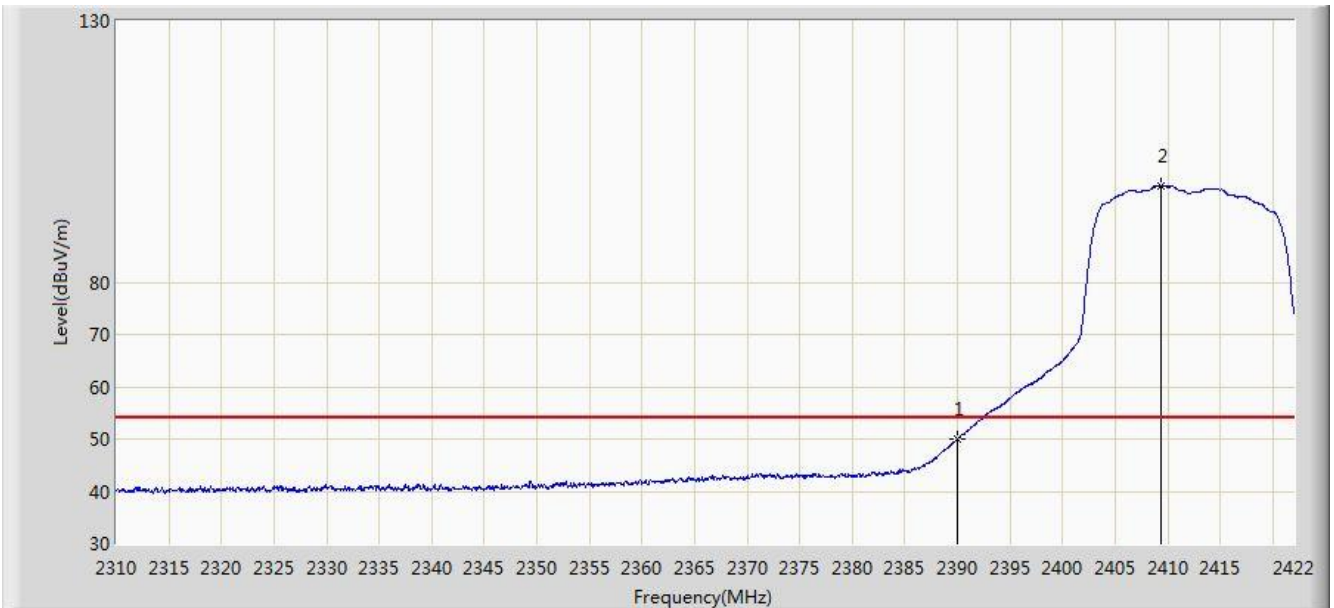


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	66.045	33.718	-7.955	74.000	32.327	PK
2		*	2413.264	108.392	76.108	N/A	N/A	32.284	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	

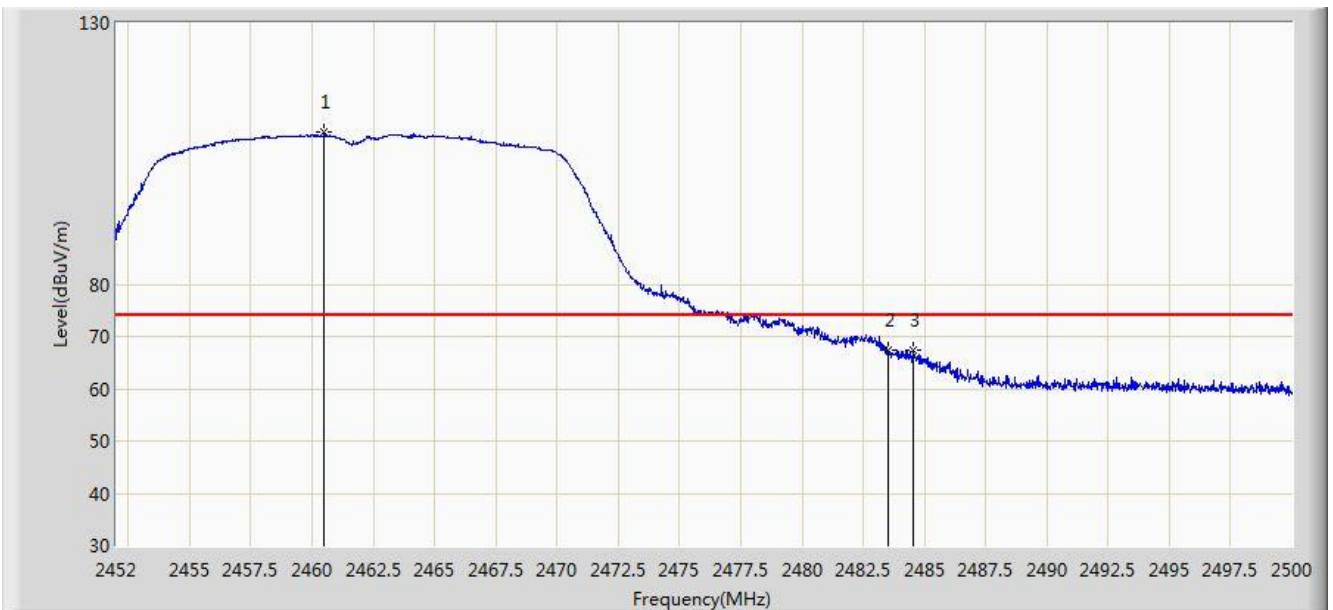


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	49.974	17.647	-4.026	54.000	32.327	AV
2		*	2409.344	98.443	66.154	N/A	N/A	32.288	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

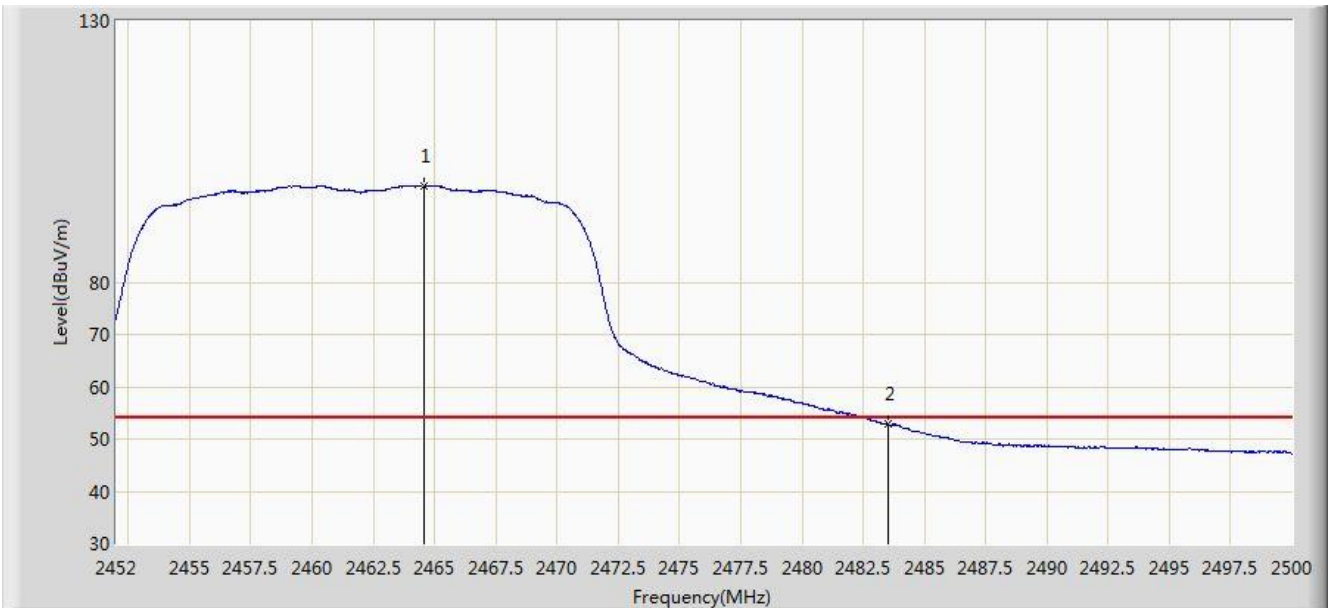


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.496	109.101	76.824	N/A	N/A	32.277	PK
2			2483.500	67.401	35.062	-6.599	74.000	32.340	PK
3			2484.568	67.495	35.152	-6.505	74.000	32.344	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

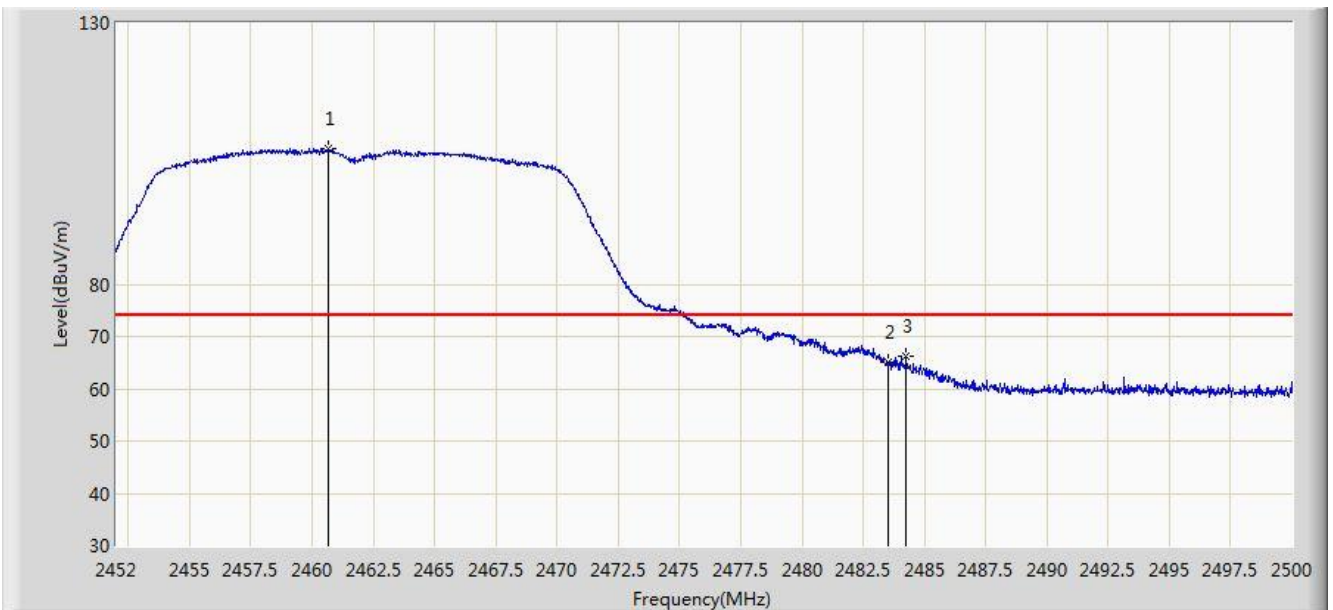


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.552	98.541	66.256	N/A	N/A	32.285	AV
2			2483.500	52.758	20.419	-1.242	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

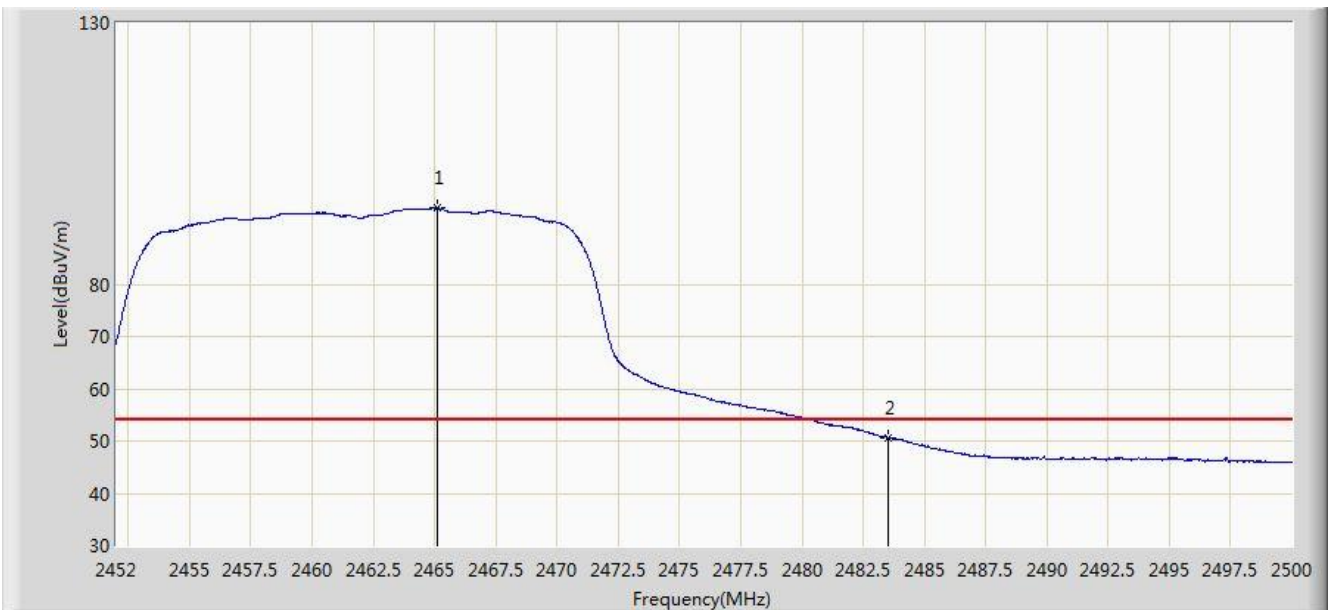


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.664	105.868	73.590	N/A	N/A	32.278	PK
2			2483.500	64.937	32.598	-9.063	74.000	32.340	PK
3			2484.256	66.116	33.774	-7.884	74.000	32.342	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 01:55
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

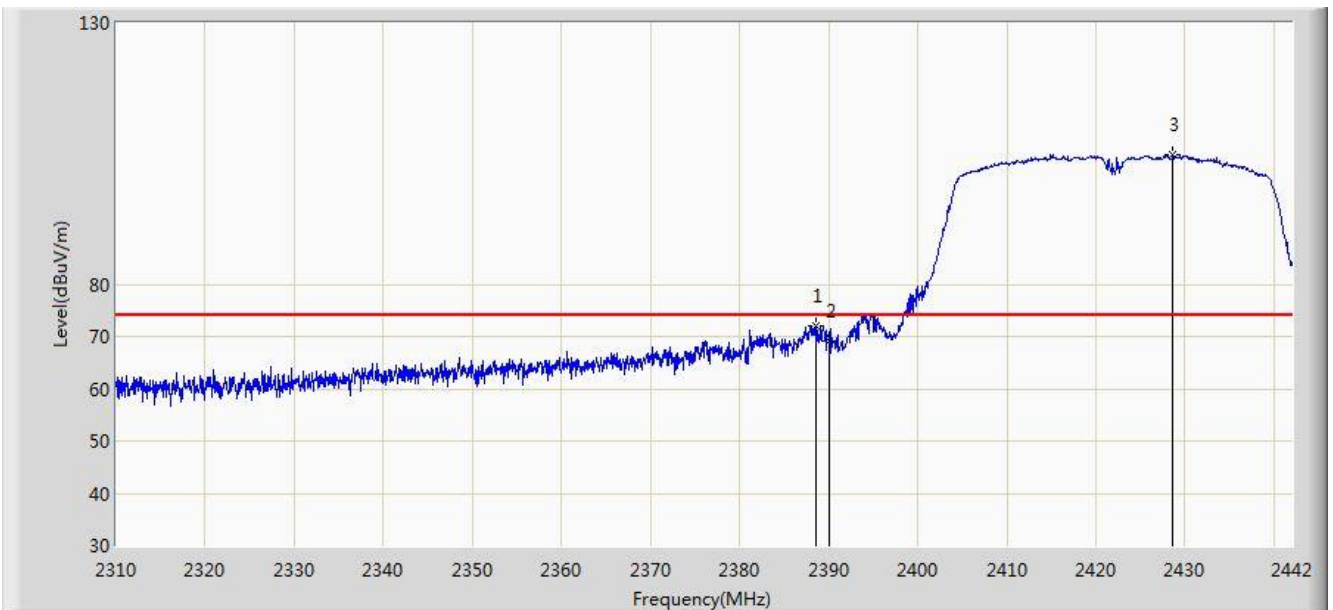


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2465.104	94.558	62.271	N/A	N/A	32.286	AV
2			2483.500	50.655	18.316	-3.345	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 02:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

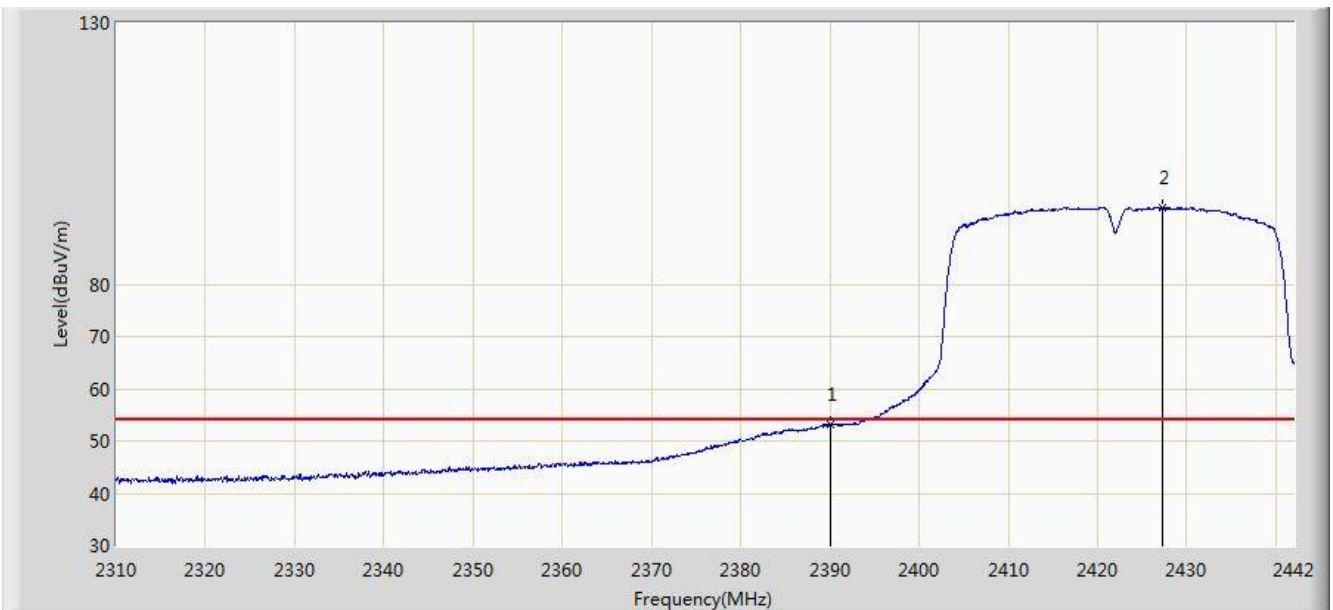


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.540	72.014	39.685	-1.986	74.000	32.329	PK
2			2390.000	69.152	36.825	-4.848	74.000	32.327	PK
3		*	2428.602	104.894	72.617	N/A	N/A	32.277	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 02:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

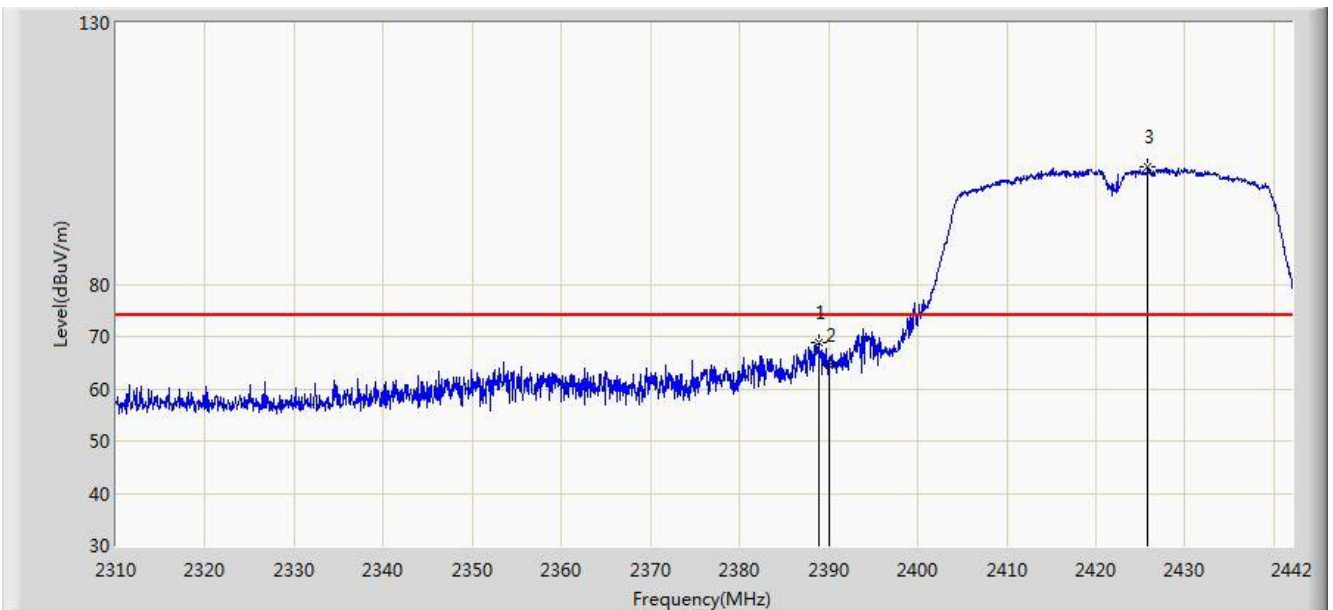


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.084	20.757	-0.916	54.000	32.327	AV
2		*	2427.348	94.749	62.471	N/A	N/A	32.278	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 02:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

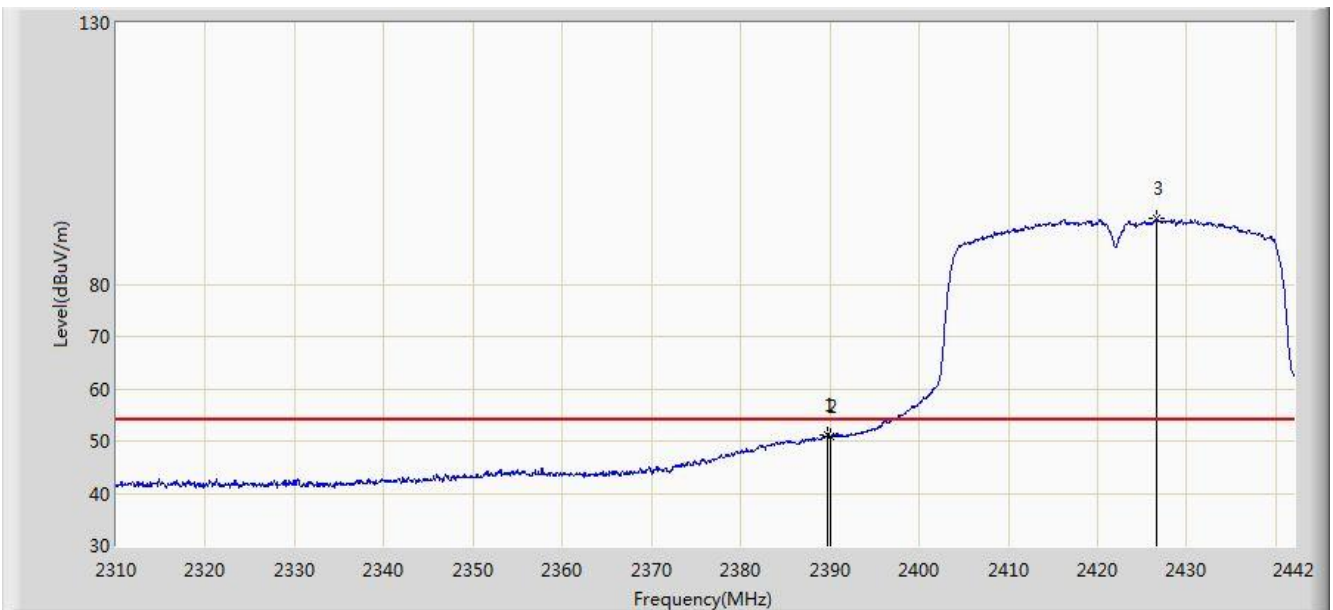


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.870	68.826	36.498	-5.174	74.000	32.329	PK
2			2390.000	64.612	32.285	-9.388	74.000	32.327	PK
3		*	2425.830	102.394	70.115	N/A	N/A	32.279	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 02:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

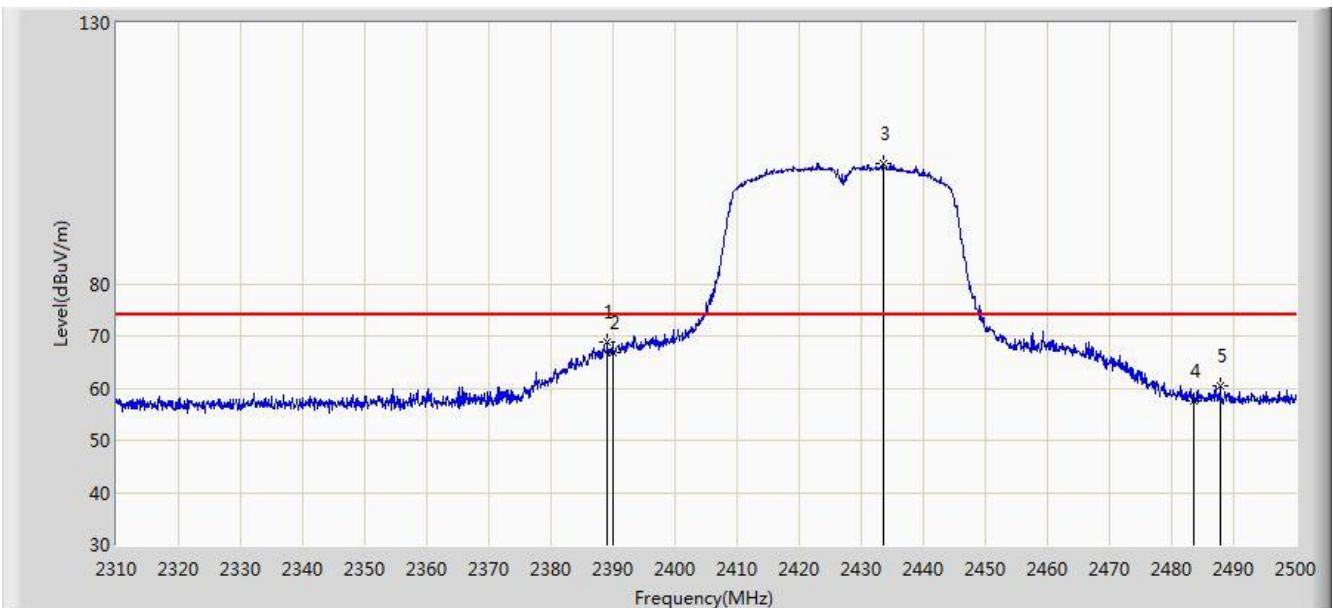


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.728	51.168	18.841	-2.832	54.000	32.328	AV
2			2390.000	50.831	18.504	-3.169	54.000	32.327	AV
3		*	2426.622	92.474	60.195	N/A	N/A	32.278	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/11 - 22:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Note: Transmit by 802.11n-HT40 at Channel 2427MHz	

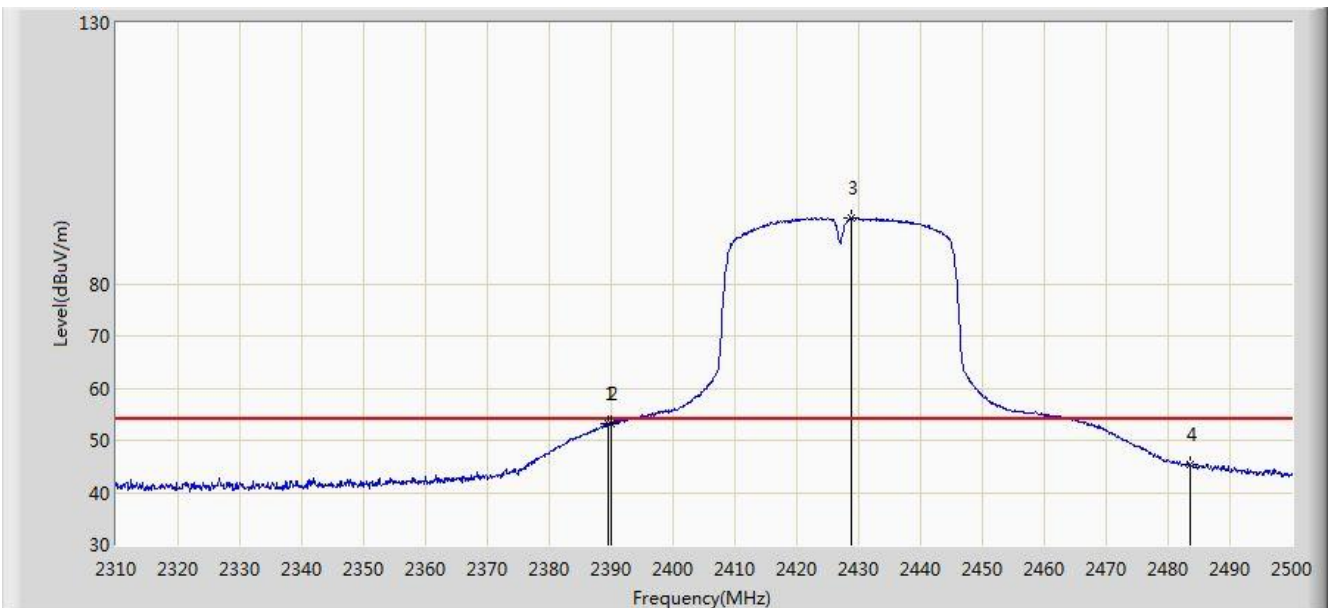


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.135	68.727	36.399	-5.273	74.000	32.328	PK
2			2390.000	66.952	34.625	-7.048	74.000	32.327	PK
3		*	2433.500	103.055	70.786	N/A	N/A	32.269	PK
4			2483.500	57.517	25.178	-16.483	74.000	32.340	PK
5			2487.745	60.577	28.221	-13.423	74.000	32.356	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/11 - 22:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Note: Transmit by 802.11n-HT40 at Channel 2427MHz	

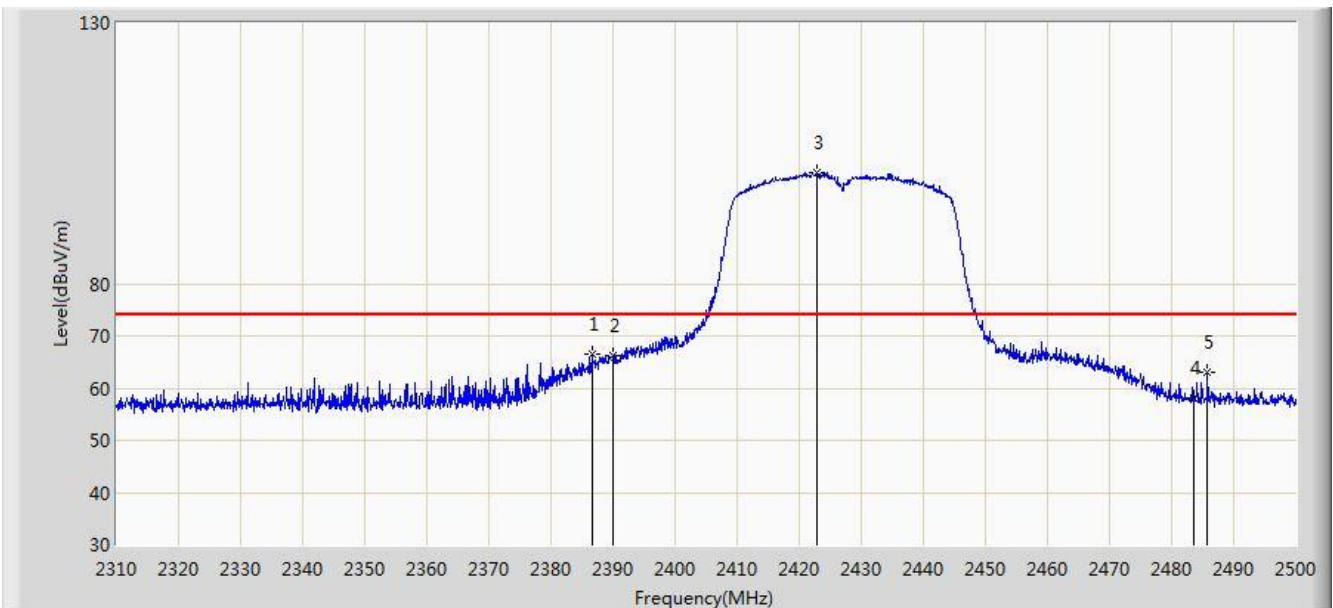


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.515	53.191	20.863	-0.809	54.000	32.327	AV
2			2390.000	53.126	20.799	-0.874	54.000	32.327	AV
3		*	2428.750	92.720	60.443	N/A	N/A	32.277	AV
4			2483.500	45.225	12.886	-8.775	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/11 - 22:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Note: Transmit by 802.11n-HT40 at Channel 2427MHz	

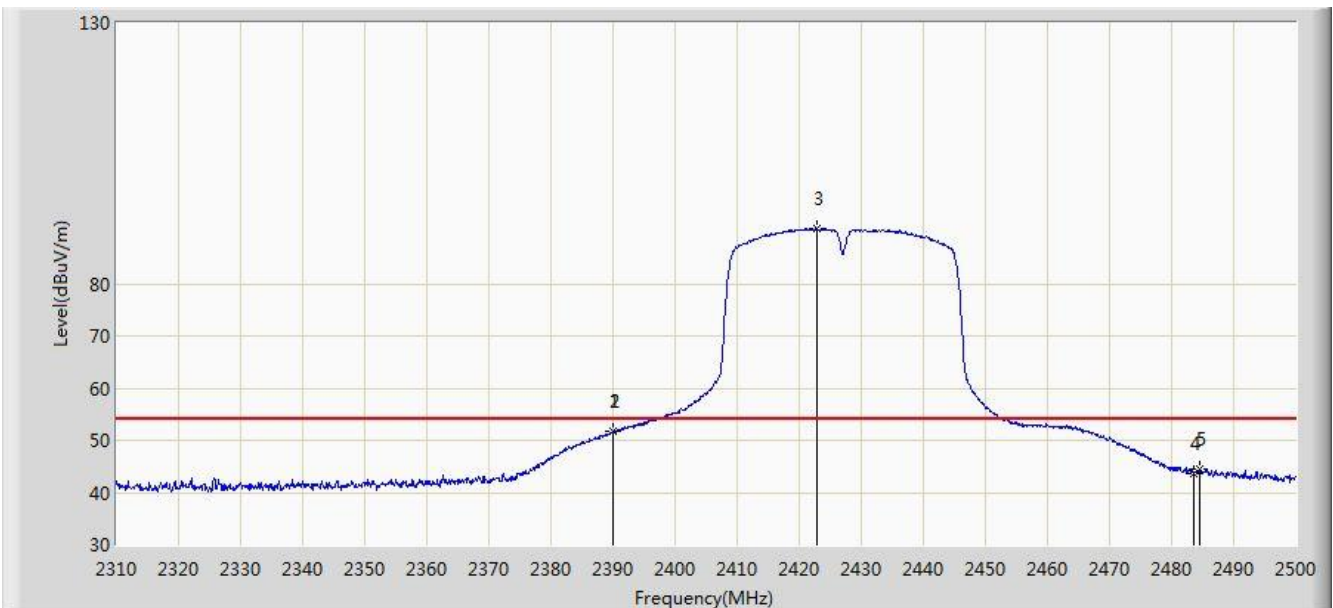


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.570	66.487	34.155	-7.513	74.000	32.332	PK
2			2390.000	66.091	33.764	-7.909	74.000	32.327	PK
3		*	2422.860	101.411	69.131	N/A	N/A	32.280	PK
4			2483.500	57.987	25.648	-16.013	74.000	32.340	PK
5			2485.750	63.025	30.677	-10.975	74.000	32.348	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/11 - 22:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Note: Transmit by 802.11n-HT40 at Channel 2427MHz	

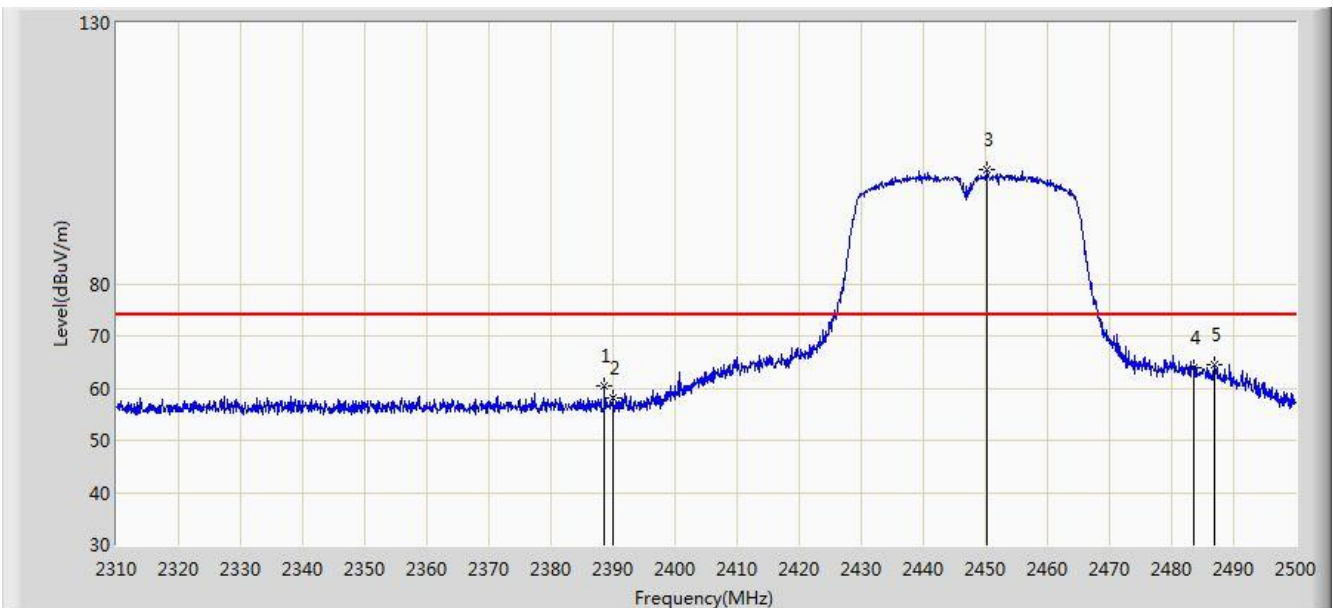


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.895	51.873	19.546	-2.127	54.000	32.327	AV
2			2390.000	51.698	19.371	-2.302	54.000	32.327	AV
3		*	2422.765	90.518	58.238	N/A	N/A	32.280	AV
4			2483.500	43.744	11.405	-10.256	54.000	32.340	AV
5			2484.610	44.431	12.087	-9.569	54.000	32.344	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/11 - 22:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Note: Transmit by 802.11n-HT40 at Channel 2447MHz	

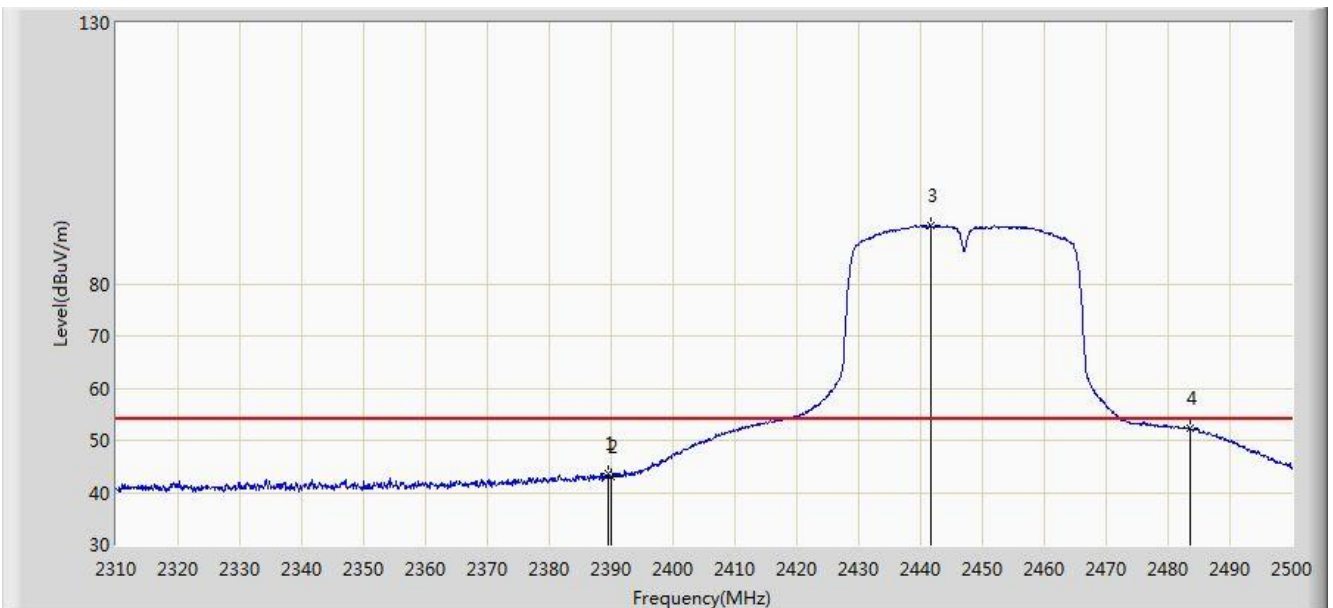


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.565	60.472	28.143	-13.528	74.000	32.329	PK
2			2390.000	58.246	25.919	-15.754	74.000	32.327	PK
3		*	2450.315	102.006	69.749	N/A	N/A	32.257	PK
4			2483.500	63.820	31.481	-10.180	74.000	32.340	PK
5			2486.795	64.378	32.026	-9.622	74.000	32.353	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/11 - 22:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Note: Transmit by 802.11n-HT40 at Channel 2447MHz	

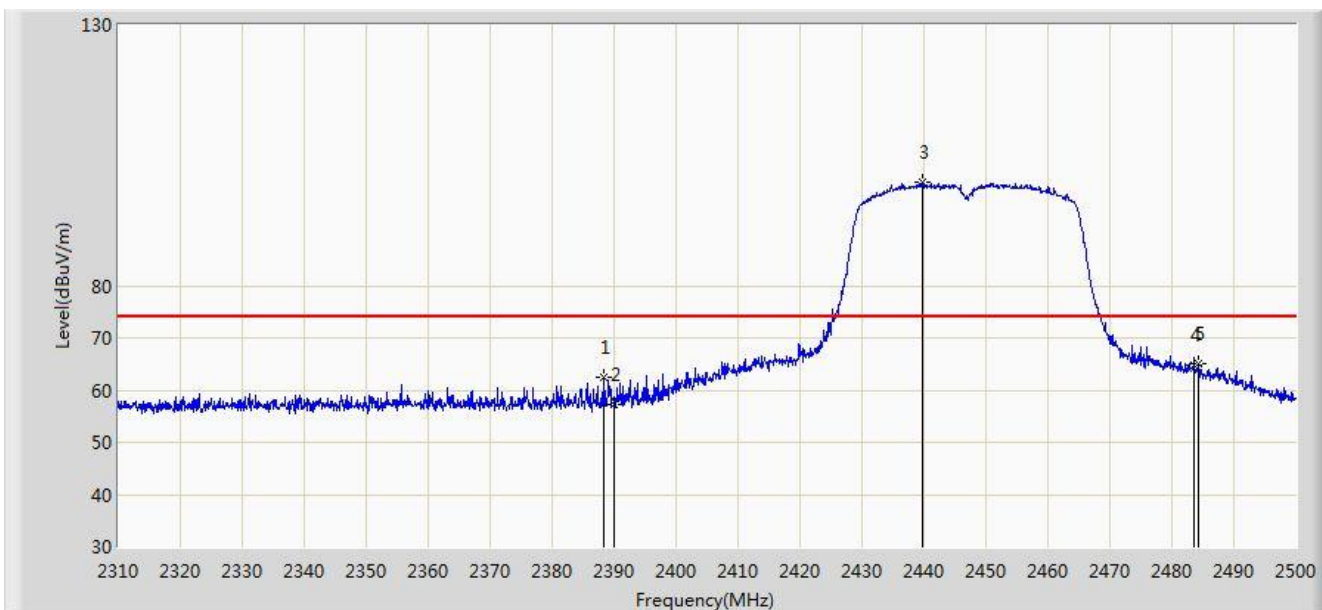


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.420	43.658	11.330	-10.342	54.000	32.327	AV
2			2390.000	42.967	10.640	-11.033	54.000	32.327	AV
3		*	2441.575	91.192	58.937	N/A	N/A	32.255	AV
4			2483.500	52.254	19.915	-1.746	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/11 - 22:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Note: Transmit by 802.11n-HT40 at Channel 2447MHz	

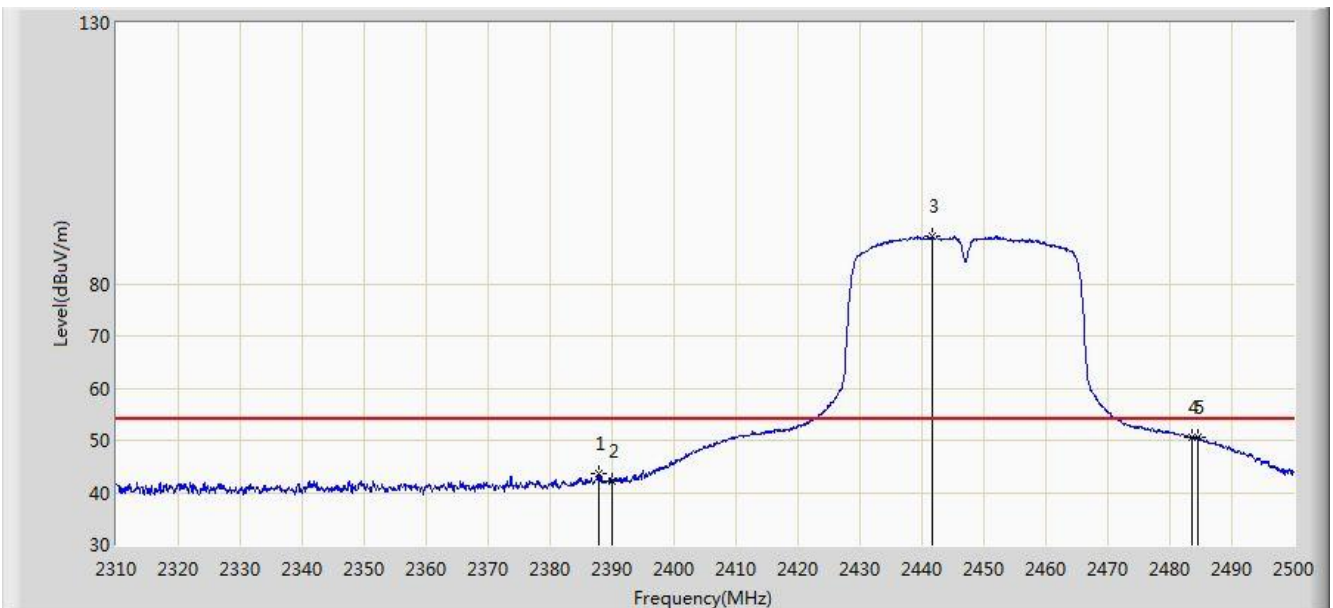


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.375	62.604	30.275	-11.396	74.000	32.329	PK
2			2390.000	57.243	24.916	-16.757	74.000	32.327	PK
3		*	2439.675	99.826	67.567	N/A	N/A	32.259	PK
4			2483.500	64.837	32.498	-9.163	74.000	32.340	PK
5			2484.325	64.996	32.654	-9.004	74.000	32.342	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/11 - 22:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Note: Transmit by 802.11n-HT40 at Channel 2447MHz	

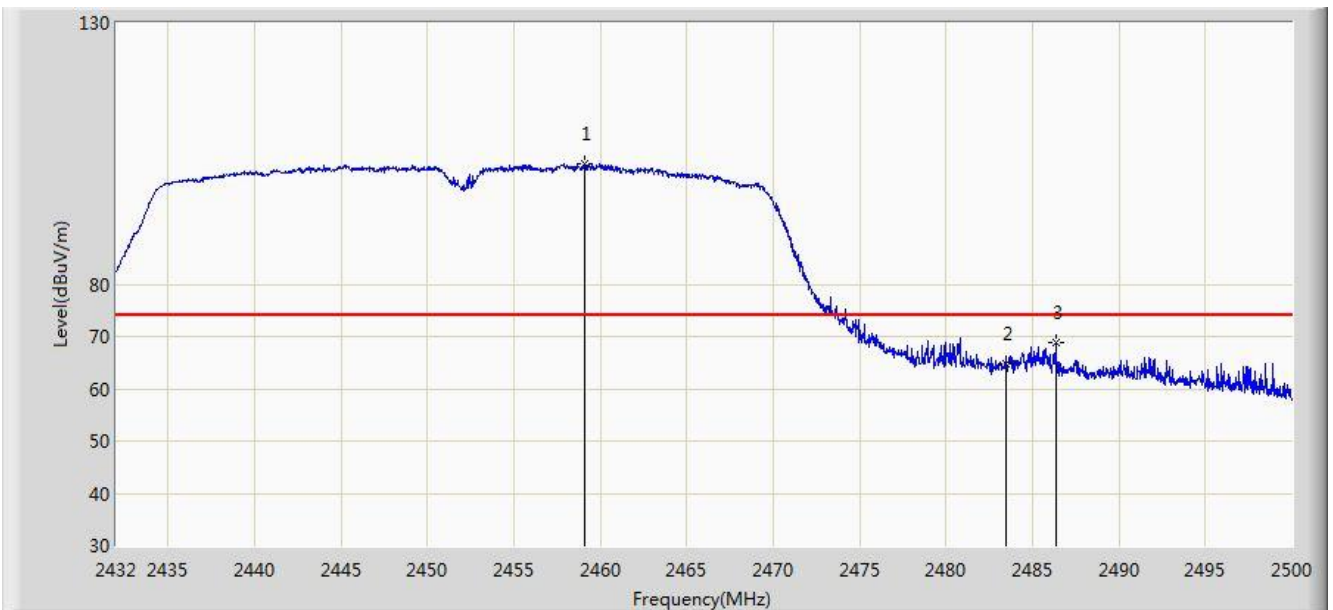


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.805	43.634	11.304	-10.366	54.000	32.330	AV
2			2390.000	42.082	9.755	-11.918	54.000	32.327	AV
3		*	2441.575	89.041	56.786	N/A	N/A	32.255	AV
4			2483.500	50.563	18.224	-3.437	54.000	32.340	AV
5			2484.610	50.618	18.274	-3.382	54.000	32.344	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 02:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

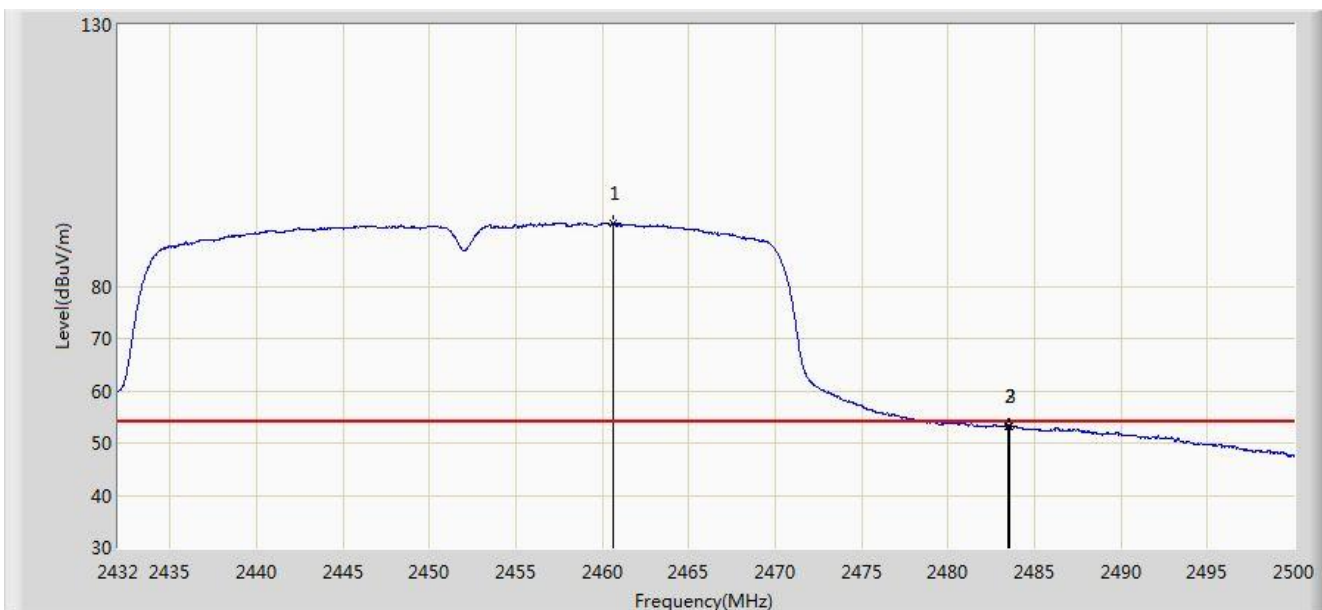


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.132	102.977	70.702	N/A	N/A	32.275	PK
2			2483.500	64.658	32.319	-9.342	74.000	32.340	PK
3			2486.332	68.866	36.516	-5.134	74.000	32.351	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 02:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

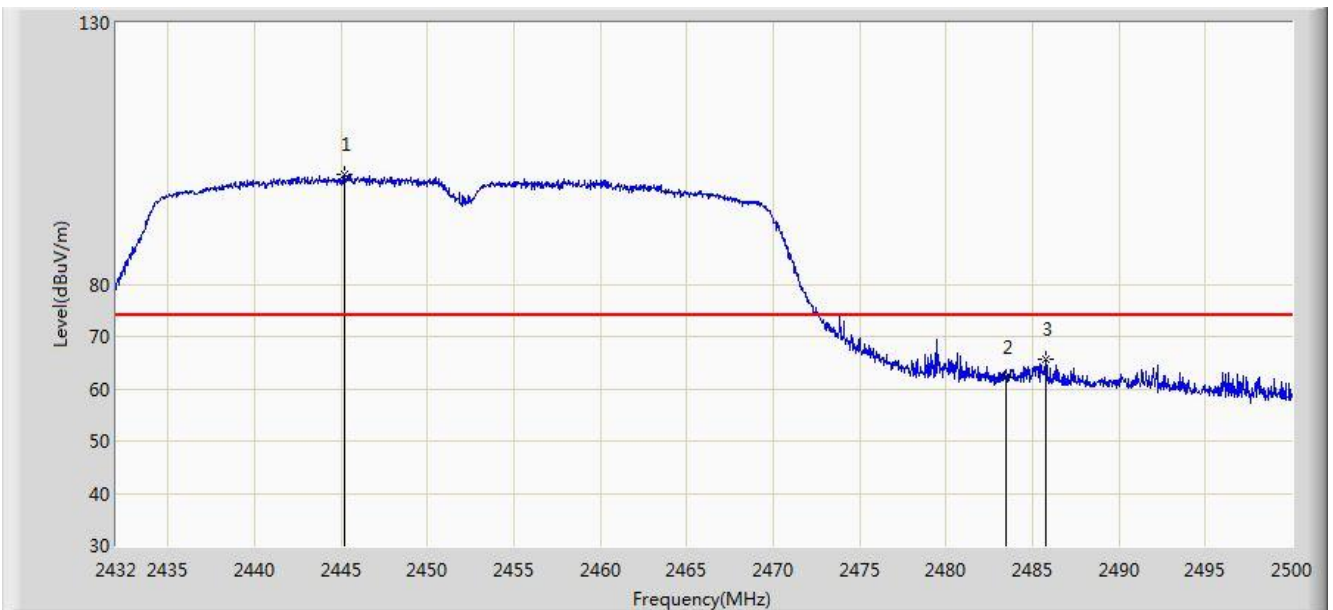


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.594	92.150	59.872	N/A	N/A	32.277	AV
2			2483.500	53.195	20.856	-0.805	54.000	32.340	AV
3			2483.544	53.211	20.872	-0.789	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 02:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

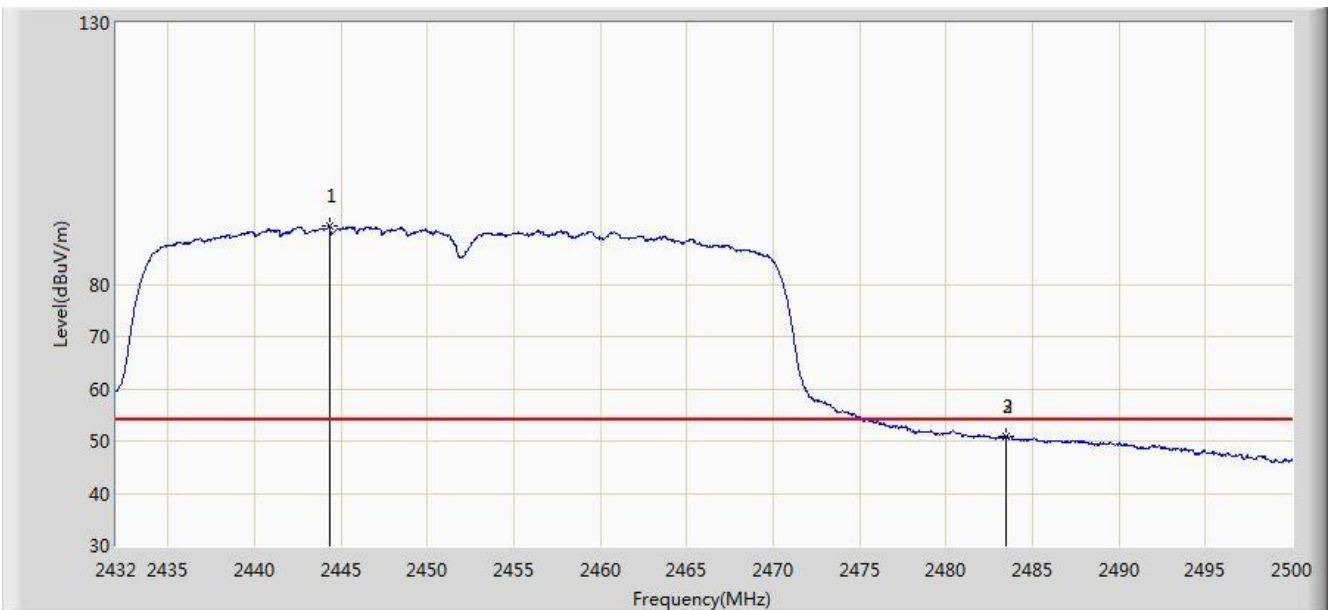


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2445.192	100.874	68.625	N/A	N/A	32.249	PK
2			2483.500	62.086	29.747	-11.914	74.000	32.340	PK
3			2485.754	65.561	33.213	-8.439	74.000	32.348	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/12/26 - 02:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wi-Fi USB Dongle	Power: DC 5V
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2444.342	91.140	58.889	N/A	N/A	32.250	AV
2			2483.500	50.817	18.478	-3.183	54.000	32.340	AV
3			2483.510	50.879	18.540	-3.121	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

7.8. AC Conducted Emissions Measurement

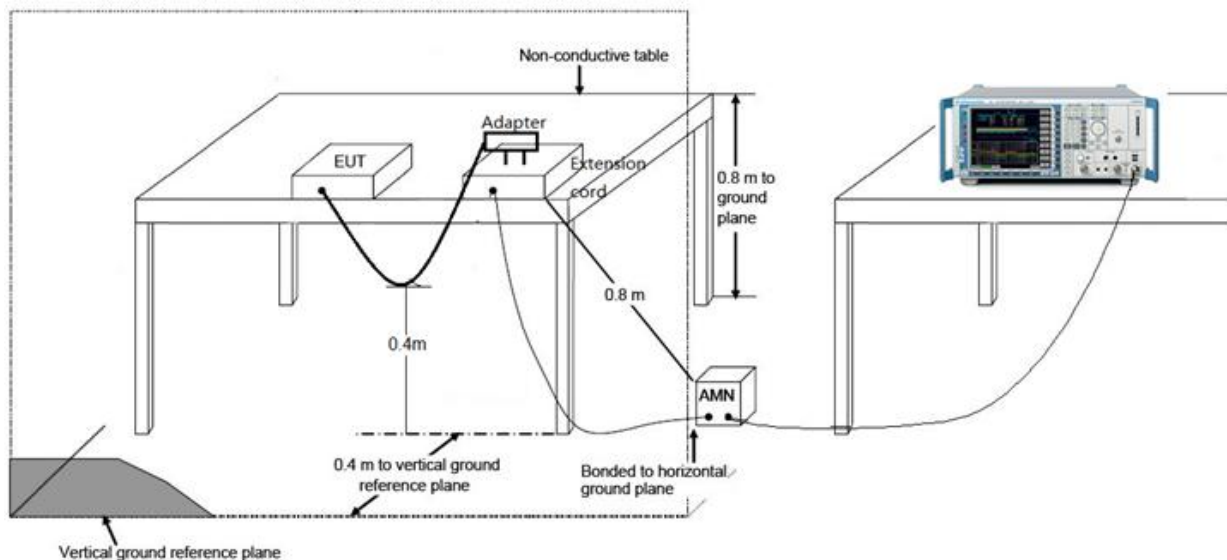
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 ~ 0.50	66 ~ 56	56 ~ 46
0.50 ~ 5.0	56	46
5.0 ~ 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

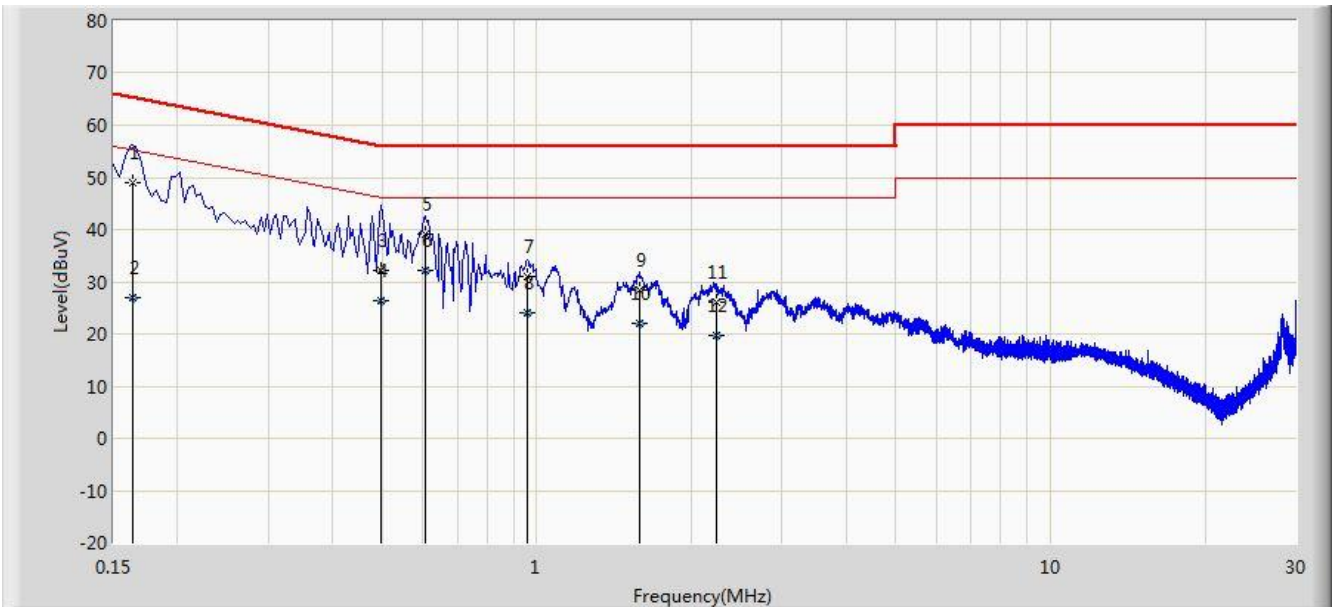
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3.Test Result

Site: SR2	Time: 2018/03/05 - 19:28
Limit: FCC_Part15.207_CE_AC Power	Engineer: Cat Hu
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Wi-Fi USB Dongle	Power: AC 120V/60Hz
Test Mode 1	

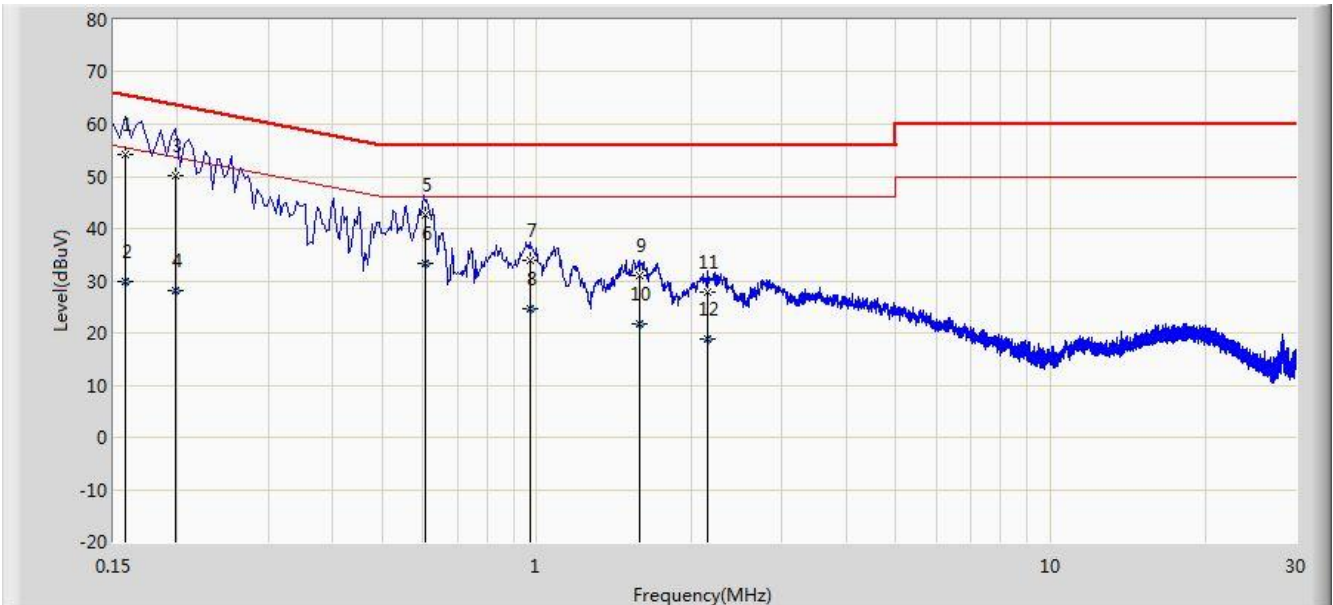


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.164	48.992	38.900	-16.267	65.259	10.092	QP
2			0.164	26.892	16.800	-28.367	55.259	10.092	AV
3			0.498	32.101	21.943	-23.933	56.033	10.157	QP
4			0.498	26.410	16.252	-19.624	46.033	10.157	AV
5			0.606	39.272	29.160	-16.728	56.000	10.112	QP
6			0.606	32.039	21.927	-13.961	46.000	10.112	AV
7			0.958	31.048	21.118	-24.952	56.000	9.930	QP
8			0.958	23.950	14.021	-22.050	46.000	9.930	AV
9			1.586	28.392	18.506	-27.608	56.000	9.886	QP
10			1.586	21.921	12.035	-24.079	46.000	9.886	AV
11			2.230	26.007	16.142	-29.993	56.000	9.865	QP
12			2.230	19.667	9.802	-26.333	46.000	9.865	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2018/03/05 - 19:33
Limit: FCC_Part15.207_CE_AC Power	Engineer: Cat Hu
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Wi-Fi USB Dongle	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.158	54.090	43.800	-11.479	65.568	10.290	QP
2			0.158	29.830	19.540	-25.739	55.568	10.290	AV
3			0.198	50.215	40.200	-13.479	63.694	10.015	QP
4			0.198	28.015	18.000	-25.679	53.694	10.015	AV
5			0.606	42.728	32.600	-13.272	56.000	10.128	QP
6			0.606	33.228	23.100	-12.772	46.000	10.128	AV
7			0.970	33.793	23.868	-22.207	56.000	9.925	QP
8			0.970	24.738	14.813	-21.262	46.000	9.925	AV
9			1.590	30.987	21.100	-25.013	56.000	9.887	QP
10			1.590	21.736	11.849	-24.264	46.000	9.887	AV
11			2.154	27.847	17.977	-28.153	56.000	9.870	QP
12			2.154	18.703	8.833	-27.297	46.000	9.870	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Wi-Fi USB Dongle** is in compliance with Part 15C of the FCC Rules and ISSED Rules.

The End