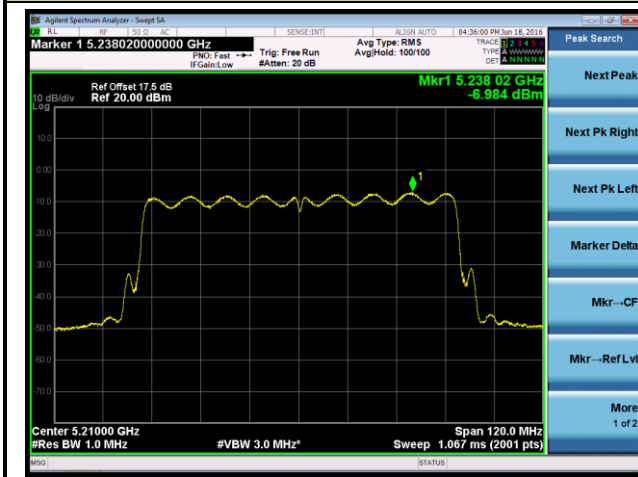
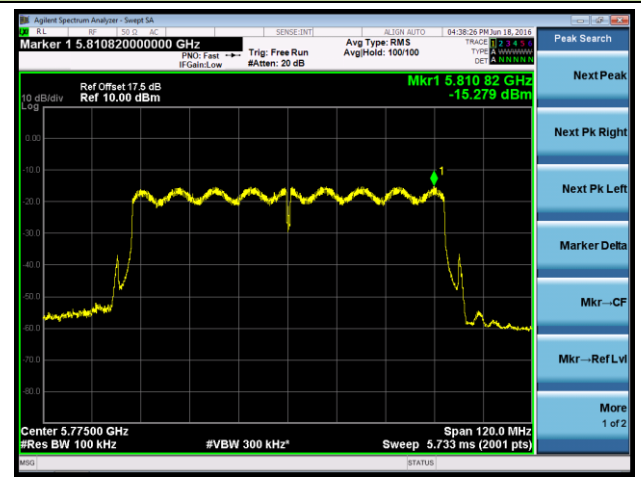


802.11ac-VHT80 Power Spectral Density - Ant 1 / Ant 1 + 2

Channel 42 (5210MHz)

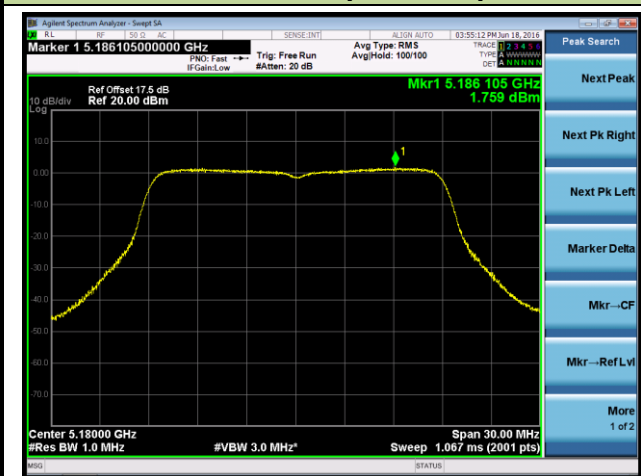


Channel 155 (5775MHz)



802.11n-HT20 Power Spectral Density - Ant 2 / Ant 1 + 2

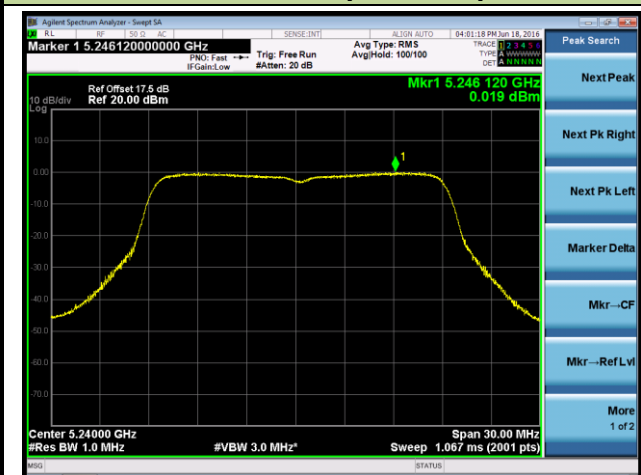
Channel 36 (5180MHz)



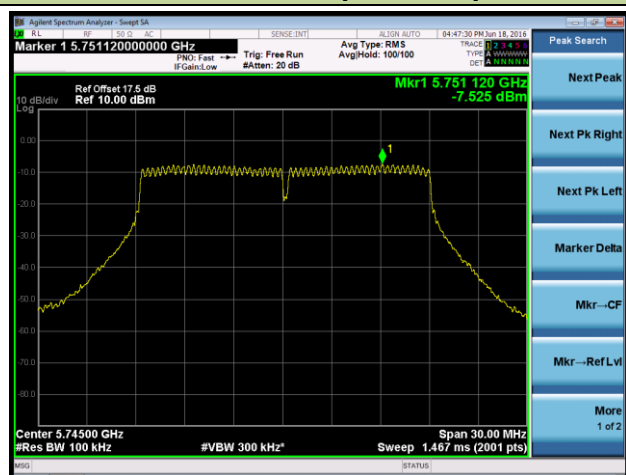
Channel 44 (5220MHz)



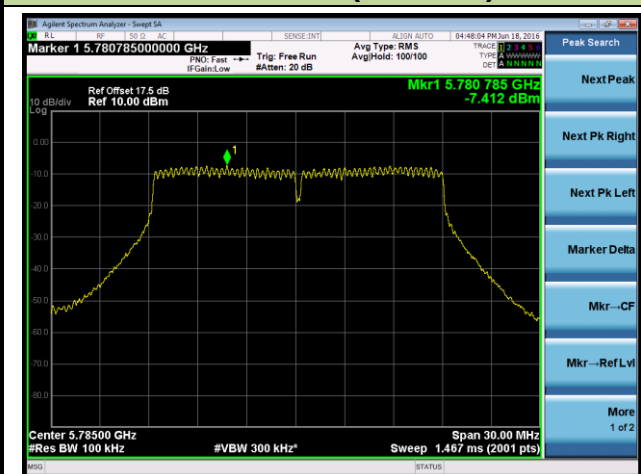
Channel 48 (5240MHz)



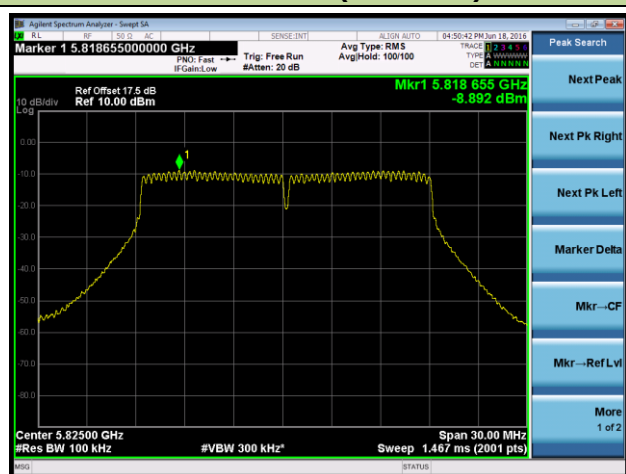
Channel 149 (5745MHz)



Channel 157 (5785MHz)

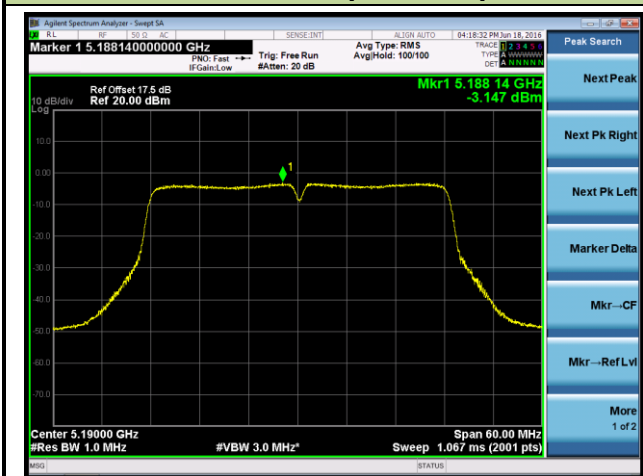


Channel 165 (5825MHz)

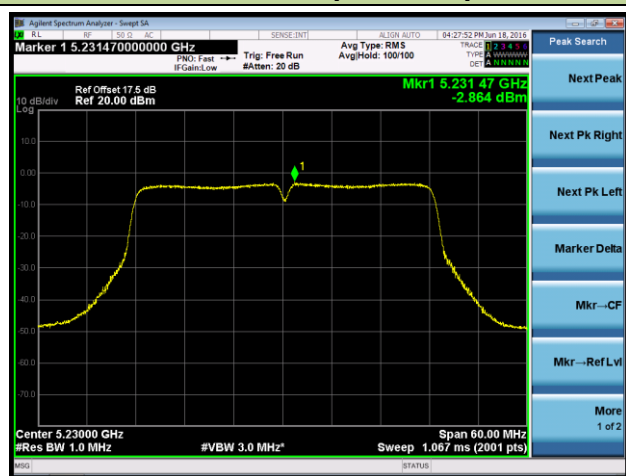


802.11n-HT40 Power Spectral Density - Ant 2 / Ant 1 + 2

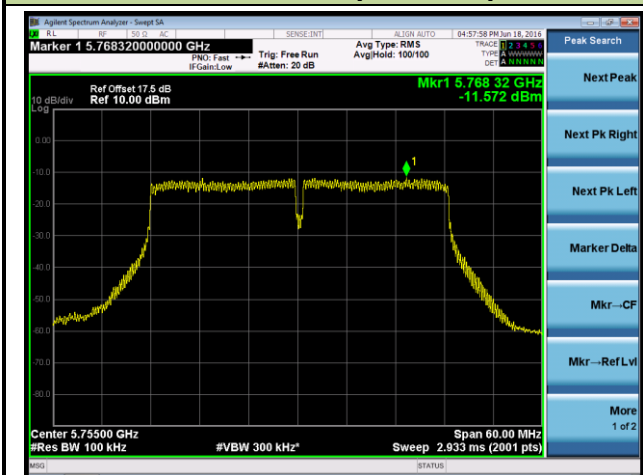
Channel 38 (5190MHz)



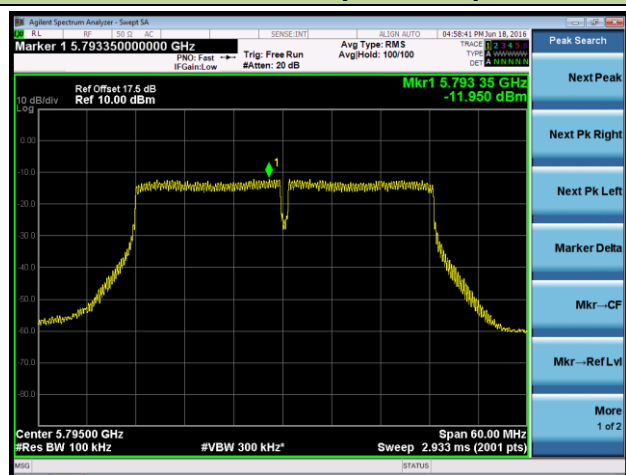
Channel 46 (5230MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)

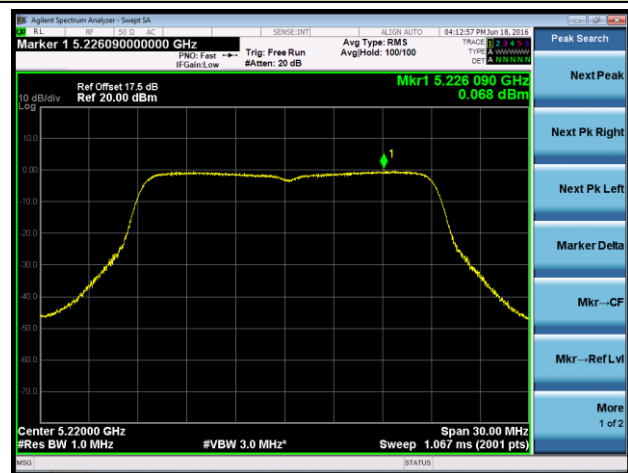


802.11ac-VHT20 Power Spectral Density - Ant 2 / Ant 1 + 2

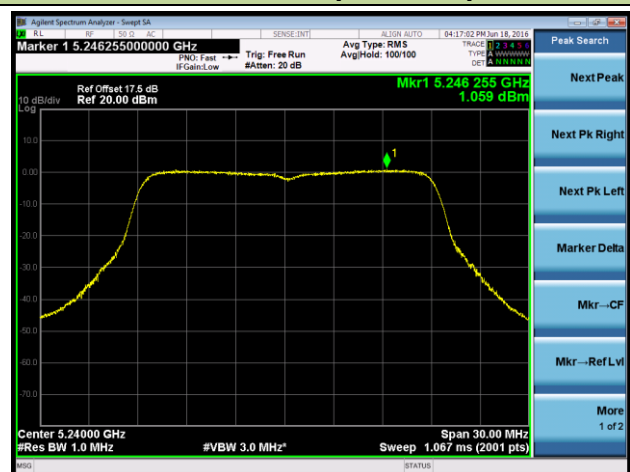
Channel 36 (5180MHz)



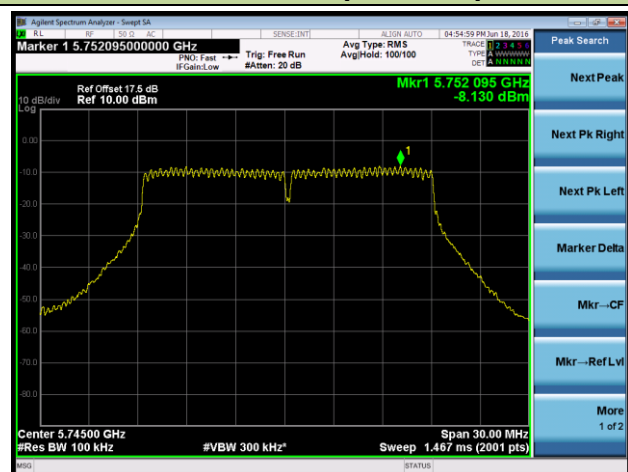
Channel 44 (5220MHz)



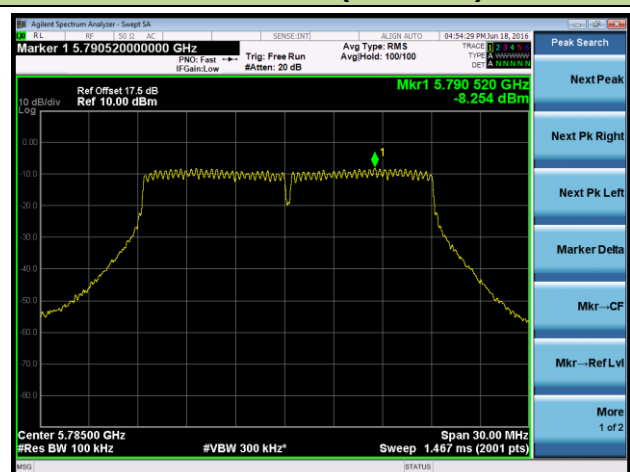
Channel 48 (5240MHz)



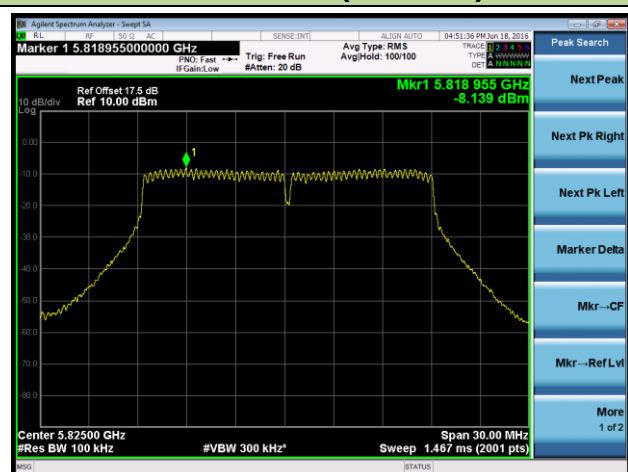
Channel 149 (5745MHz)



Channel 157 (5785MHz)

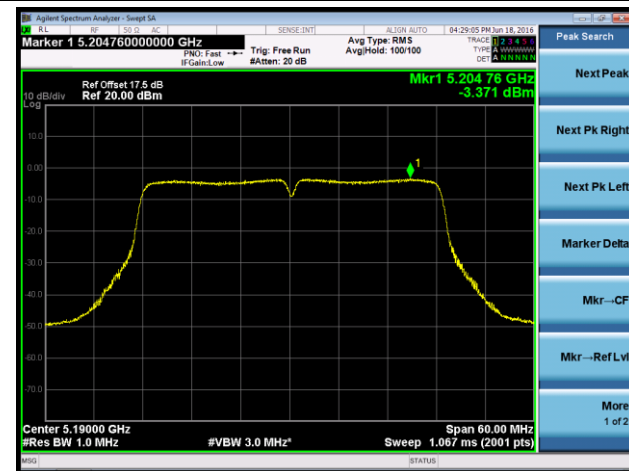


Channel 165 (5825MHz)

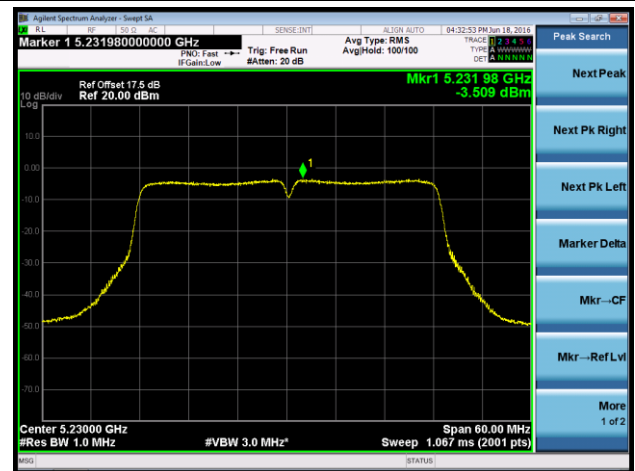


802.11ac-VHT40 Power Spectral Density - Ant 2 / Ant 1 + 2

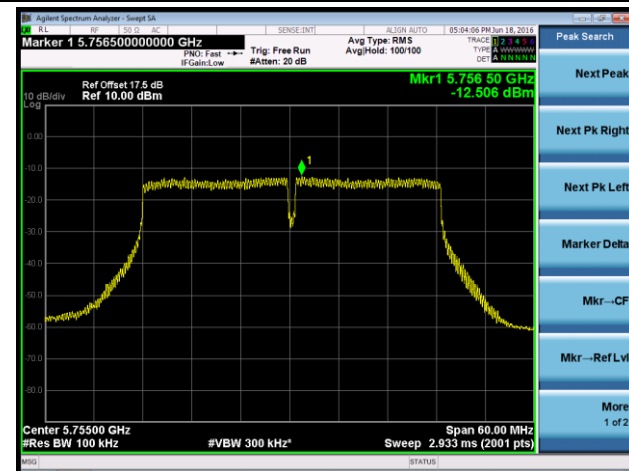
Channel 38 (5190MHz)



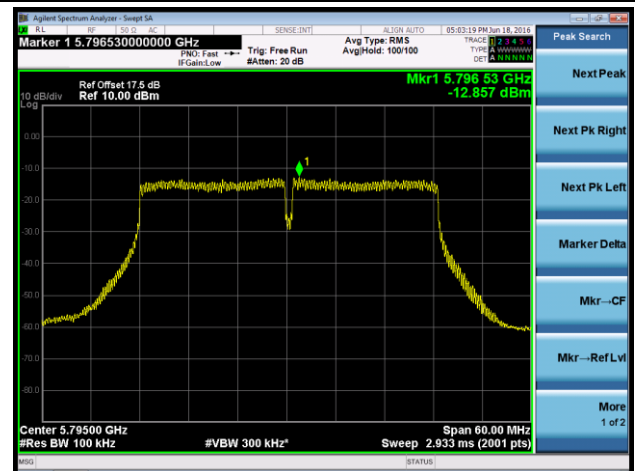
Channel 46 (5230MHz)



Channel 151 (5755MHz)

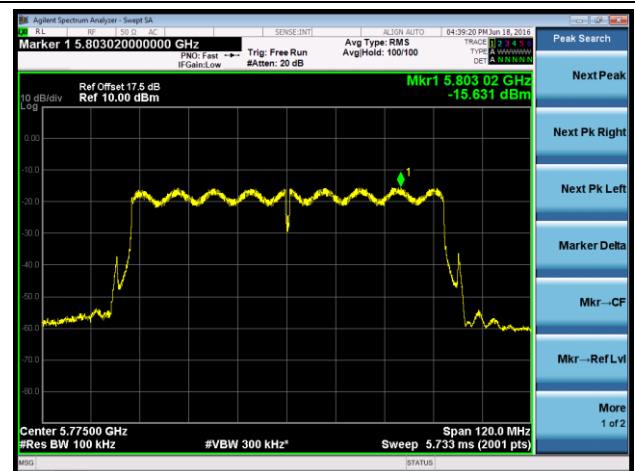
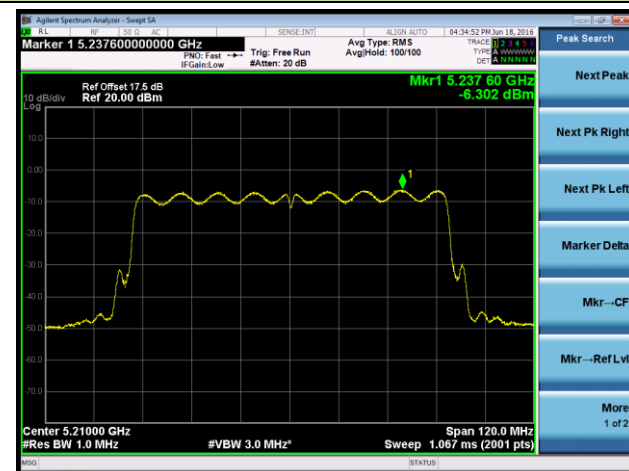


Channel 159 (5795MHz)



802.11ac-VHT80 Power Spectral Density - Ant 2 / Ant 1 + 2

Channel 155 (5775MHz)



7.8. Frequency Stability Measurement

7.8.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.8.2. Test Procedure Used

Frequency Stability Under Temperature Variations:

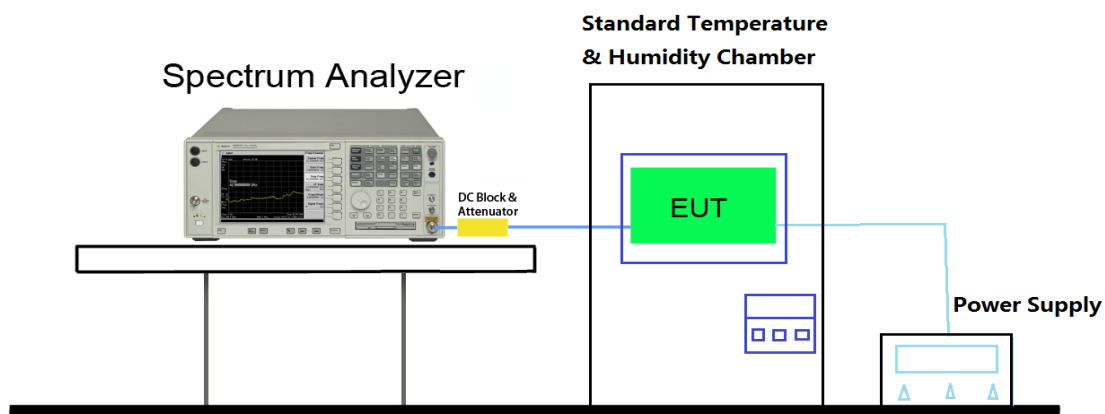
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.8.3. Test Setup



7.8.4. Test Result

Product	WIFI Module	Temperature	25°C
Test Engineer	Roy Cheng	Relative Humidity	54%
Test Site	TR3	Test Date	2016/06/14

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100%	120	- 20	1.52	1.35	1.70	-1.50
		- 10	-1.36	-1.52	1.06	1.24
		0	1.51	1.95	1.21	-1.54
		+ 10	-2.48	2.26	-2.27	3.38
		+ 20 (Ref)	2.28	-2.21	2.11	3.08
		+ 30	1.31	1.56	1.48	1.29
		+ 40	-0.64	0.80	1.13	-1.37
		+ 50	1.34	0.76	-0.98	-0.76
115%	138	+ 20	1.55	-0.72	-1.17	1.83
85%	102	+ 20	1.67	1.06	1.58	1.77

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

7.9. Radiated Spurious Emission Measurement

7.9.1. 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

7.9.2. Test Procedure Used

KDB 789033 D02v01r02 – Section G

7.9.3. Test Setting

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Quasi-Peak Measurements below 1GHz

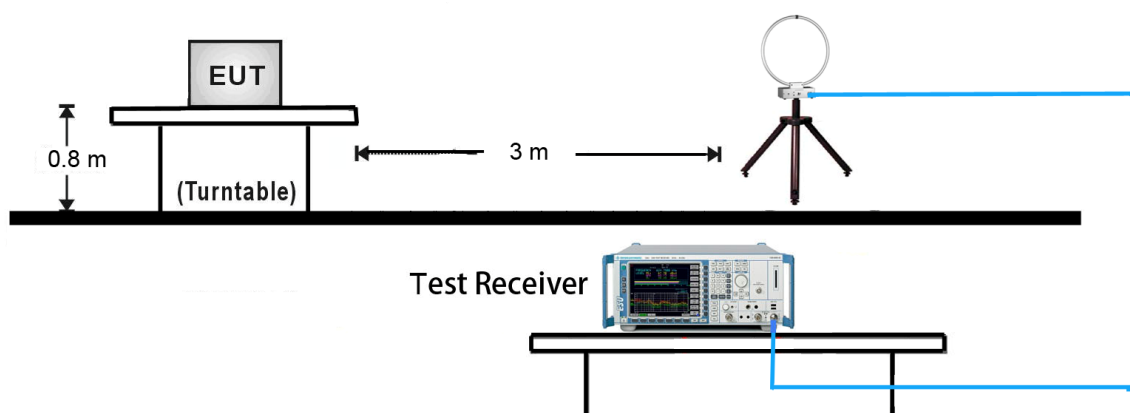
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Average Measurements above 1GHz (Method AD)

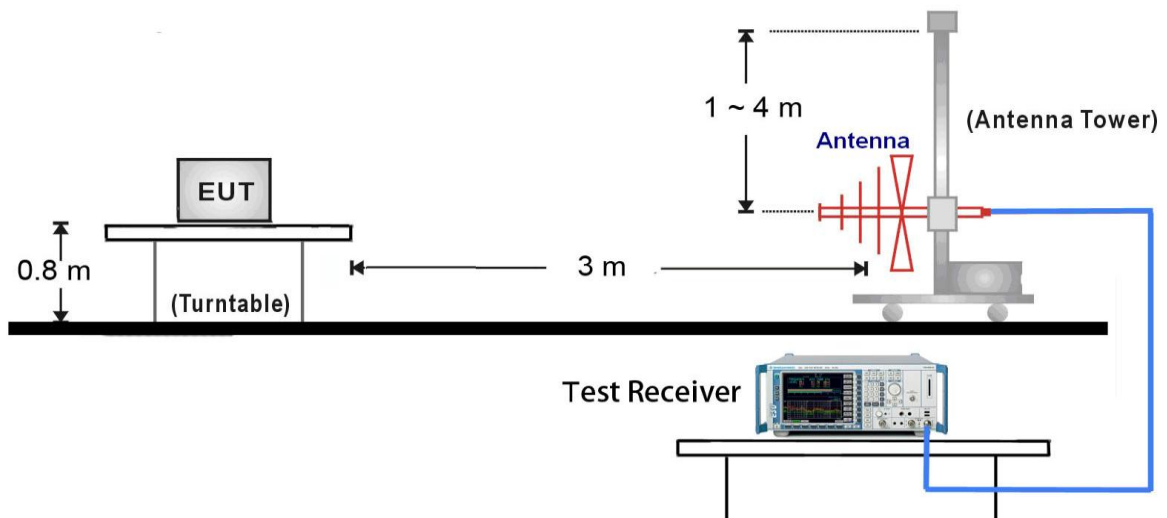
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (Average)
5. Number of measurement points = 1001 (Number of points must be $> 2 \times \text{span}/\text{RBW}$)
6. Sweep time = auto
7. Trace was averaged over at 100 sweeps

7.9.4. Test Setup

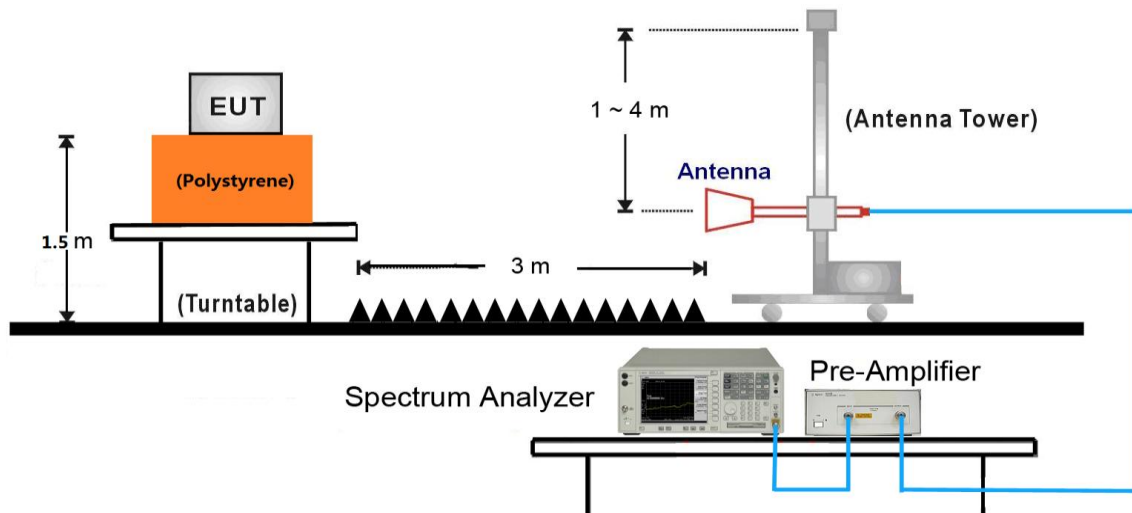
9kHz ~ 30MHz Test Setup:



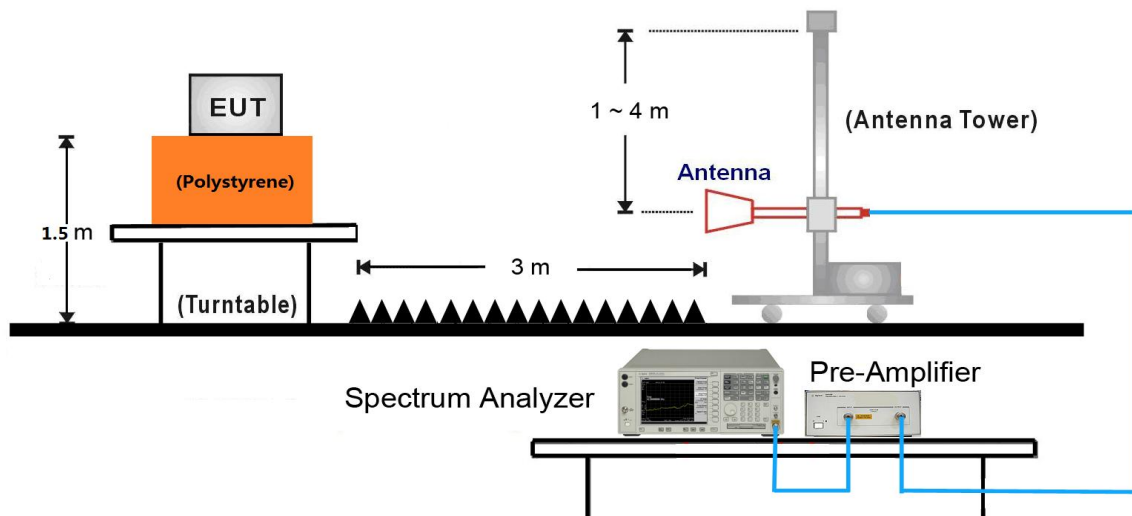
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 40GHz Test Setup:



7.9.5. Test Result

Test Mode:	802.11a - Ant 1	Test Site:	AC1
Test Channel:	36	Test Engineer:	Milo Li
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
	7387.4	35.2	7.9	43.1	74.0	-30.9	Peak	Horizontal
	8376.4	34.8	8.0	42.8	74.0	-31.2	Peak	Horizontal
*	10358.5	35.0	12.2	47.2	68.2	-21.0	Peak	Horizontal
*	13911.5	34.8	14.6	49.4	68.2	-18.8	Peak	Horizontal
	7497.0	34.3	8.2	42.5	74.0	-31.5	Peak	Vertical
	9147.5	32.9	9.8	42.7	74.0	-31.3	Peak	Vertical
*	10367.0	37.6	12.2	49.8	68.2	-18.4	Peak	Vertical
*	13967.5	33.8	14.7	48.5	68.2	-19.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 1	Test Site:	AC1
Test Channel:	44	Test Engineer:	Milo Li
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
	7367.0	34.3	7.9	42.2	74.0	-31.8	Peak	Horizontal
	9486.0	33.1	10.6	43.7	74.0	-30.3	Peak	Horizontal
*	10443.5	36.0	12.0	48.0	68.2	-20.2	Peak	Horizontal
*	14867.0	33.3	15.1	48.4	68.2	-19.8	Peak	Horizontal
	7375.0	34.7	7.9	42.6	74.0	-31.4	Peak	Vertical
	9148.0	33.2	9.8	43.0	74.0	-31.0	Peak	Vertical
*	10435.0	36.7	12.0	48.7	68.2	-19.5	Peak	Vertical
*	14857.0	34.4	15.1	49.5	68.2	-18.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 1	Test Site:	AC1
Test Channel:	48	Test Engineer:	Milo Li
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
	7586.0	35.1	8.2	43.3	74.0	-30.7	Peak	Horizontal
	9187.0	33.8	10.1	43.9	74.0	-30.1	Peak	Horizontal
*	10477.5	35.2	12.2	47.4	68.2	-20.8	Peak	Horizontal
*	13756.0	33.0	14.2	47.2	68.2	-21.0	Peak	Horizontal
	7678.0	34.6	8.0	42.6	74.0	-31.4	Peak	Vertical
	9175.0	33.9	9.9	43.8	74.0	-30.2	Peak	Vertical
*	10486.0	35.6	12.3	47.9	68.2	-20.3	Peak	Vertical
*	13869.0	33.0	14.6	47.6	68.2	-20.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 1	Test Site:	AC1
Test Channel:	149	Test Engineer:	Milo Li
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
	9432.0	34.1	10.5	44.6	74.0	-29.4	Peak	Horizontal
	11489.0	36.1	12.8	48.9	74.0	-25.1	Peak	Horizontal
*	12985.0	34.0	12.1	46.1	68.2	-22.1	Peak	Horizontal
*	14754.0	33.8	15.6	49.4	68.2	-18.8	Peak	Horizontal
	9347.0	35.0	10.5	45.5	74.0	-28.5	Peak	Vertical
	11489.0	36.0	12.8	48.8	74.0	-25.2	Peak	Vertical
*	13643.0	33.7	13.9	47.6	68.2	-20.6	Peak	Vertical
*	14867.0	33.3	15.1	48.4	68.2	-19.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 1	Test Site:	AC1
Test Channel:	157	Test Engineer:	Milo Li
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
	10809.0	34.8	12.7	47.5	74.0	-26.5	Peak	Horizontal
	11574.0	38.0	12.6	50.6	74.0	-23.4	Peak	Horizontal
*	12968.0	34.6	12.2	46.8	68.2	-21.4	Peak	Horizontal
*	14081.5	35.6	15.1	50.7	68.2	-17.5	Peak	Horizontal
	9483.0	34.4	10.6	45.0	74.0	-29.0	Peak	Vertical
	11565.5	36.0	12.7	48.7	74.0	-25.3	Peak	Vertical
*	12832.0	35.7	11.9	47.6	68.2	-20.6	Peak	Vertical
*	14141.0	34.4	15.3	49.7	68.2	-18.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 1	Test Site:	AC1
Test Channel:	165	Test Engineer:	Milo Li
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
	9474.5	33.4	10.6	44.0	74.0	-30.0	Peak	Horizontal
	11650.5	40.1	12.3	52.4	74.0	-21.6	Peak	Horizontal
*	13121.0	34.8	12.5	47.3	68.2	-20.9	Peak	Horizontal
*	13886.0	35.0	14.6	49.6	68.2	-18.6	Peak	Horizontal
	9313.0	34.1	10.4	44.5	74.0	-29.5	Peak	Vertical
	11650.5	37.5	12.3	49.8	74.0	-24.2	Peak	Vertical
*	13452.5	35.4	13.7	49.1	68.2	-19.1	Peak	Vertical
*	14940.0	34.8	14.9	49.7	68.2	-18.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 2	Test Site:	AC1
Test Channel:	36	Test Engineer:	Milo Li
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
	7477.0	35.5	8.2	43.7	74.0	-30.3	Peak	Horizontal
	8140.0	35.2	8.5	43.7	74.0	-30.3	Peak	Horizontal
*	10358.5	35.0	12.2	47.2	68.2	-21.0	Peak	Horizontal
*	13911.5	34.8	14.6	49.4	68.2	-18.8	Peak	Horizontal
	7511.0	35.2	8.3	43.5	74.0	-30.5	Peak	Vertical
	9423.5	33.7	10.6	44.3	74.0	-29.7	Peak	Vertical
*	10367.0	37.6	12.2	49.8	68.2	-18.4	Peak	Vertical
*	13690.5	36.4	14.0	50.4	68.2	-17.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 2	Test Site:	AC1
Test Channel:	44	Test Engineer:	Milo Li
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
	7511.0	35.1	8.3	43.4	74.0	-30.6	Peak	Horizontal
	9109.0	35.0	9.4	44.4	74.0	-29.6	Peak	Horizontal
*	10443.5	36.0	12.0	48.0	68.2	-20.2	Peak	Horizontal
*	13724.5	34.8	14.1	48.9	68.2	-19.3	Peak	Horizontal
	7587.5	36.3	8.2	44.5	74.0	-29.5	Peak	Vertical
	9117.5	34.2	9.5	43.7	74.0	-30.3	Peak	Vertical
*	10443.5	36.9	12.0	48.9	68.2	-19.3	Peak	Vertical
*	14702.0	35.5	15.7	51.2	68.2	-17.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 2	Test Site:	AC1
Test Channel:	48	Test Engineer:	Milo Li
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
	9338.5	34.6	10.4	45.0	74.0	-29.0	Peak	Horizontal
	10877.0	35.3	12.9	48.2	74.0	-25.8	Peak	Horizontal
*	13163.5	35.2	12.5	47.7	68.2	-20.5	Peak	Horizontal
*	14557.5	35.3	15.6	50.9	68.2	-17.3	Peak	Horizontal
	9330.0	35.0	10.4	45.4	74.0	-28.6	Peak	Vertical
	10843.0	35.0	12.7	47.7	74.0	-26.3	Peak	Vertical
*	13469.5	34.8	13.7	48.5	68.2	-19.7	Peak	Vertical
*	14549.0	35.8	15.6	51.4	68.2	-16.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 2	Test Site:	AC1
Test Channel:	149	Test Engineer:	Milo Li
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
	9321.5	34.3	10.4	44.7	74.0	-29.3	Peak	Horizontal
	11489.0	36.1	12.8	48.9	74.0	-25.1	Peak	Horizontal
*	12900.0	35.6	12.1	47.7	68.2	-20.5	Peak	Horizontal
*	14668.0	34.8	15.7	50.5	68.2	-17.7	Peak	Horizontal
	9347.0	35.0	10.5	45.5	74.0	-28.5	Peak	Vertical
	11489.0	36.0	12.8	48.8	74.0	-25.2	Peak	Vertical
*	13418.5	35.1	13.6	48.7	68.2	-19.5	Peak	Vertical
*	14574.5	35.1	15.6	50.7	68.2	-17.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 2	Test Site:	AC1
Test Channel:	157	Test Engineer:	Milo Li
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
	9338.5	34.5	10.4	44.9	74.0	-29.1	Peak	Horizontal
	11574.0	38.0	12.6	50.6	74.0	-23.4	Peak	Horizontal
*	12747.0	35.3	11.7	47.0	68.2	-21.2	Peak	Horizontal
*	14081.5	35.6	15.1	50.7	68.2	-17.5	Peak	Horizontal
	9347.0	33.9	10.5	44.4	74.0	-29.6	Peak	Vertical
	11565.5	36.0	12.7	48.7	74.0	-25.3	Peak	Vertical
*	13597.0	35.3	13.9	49.2	68.2	-19.0	Peak	Vertical
*	14600.0	34.7	15.7	50.4	68.2	-17.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11a - Ant 2	Test Site:	AC1
Test Channel:	165	Test Engineer:	Milo Li
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
	9449.0	33.5	10.5	44.0	74.0	-30.0	Peak	Horizontal
	11650.5	40.1	12.3	52.4	74.0	-21.6	Peak	Horizontal
*	13410.0	34.7	13.7	48.4	68.2	-19.8	Peak	Horizontal
*	14583.0	35.8	15.7	51.5	68.2	-16.7	Peak	Horizontal
	9457.5	33.8	10.5	44.3	74.0	-29.7	Peak	Vertical
	11650.5	37.5	12.3	49.8	74.0	-24.2	Peak	Vertical
*	13452.5	35.4	13.7	49.1	68.2	-19.1	Peak	Vertical
*	14940.0	34.8	14.9	49.7	68.2	-18.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 - Ant 1 + 2	Test Site:	AC1
Test Channel:	36	Test Engineer:	Milo Li
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
	7630.0	35.9	8.0	43.9	74.0	-30.1	Peak	Horizontal
	9194.0	34.8	10.1	44.9	74.0	-29.1	Peak	Horizontal
*	10367.0	35.8	12.2	48.0	68.2	-20.2	Peak	Horizontal
*	13520.5	34.9	13.8	48.7	68.2	-19.5	Peak	Horizontal
	7502.5	35.7	8.3	44.0	74.0	-30.0	Peak	Vertical
	9432.0	34.7	10.5	45.2	74.0	-28.8	Peak	Vertical
*	10545.5	35.2	12.5	47.7	68.2	-20.5	Peak	Vertical
*	13155.0	34.8	12.5	47.3	68.2	-20.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 - Ant 1 + 2	Test Site:	AC1
Test Channel:	44	Test Engineer:	Milo Li
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
	9313.0	32.6	10.4	43.0	74.0	-31.0	Peak	Horizontal
	11531.5	34.9	12.7	47.6	74.0	-26.4	Peak	Horizontal
*	13053.0	35.1	12.3	47.4	68.2	-20.8	Peak	Horizontal
*	14166.5	33.9	15.3	49.2	68.2	-19.0	Peak	Horizontal
	9406.5	34.2	10.6	44.8	74.0	-29.2	Peak	Vertical
	11455.0	35.2	12.7	47.9	74.0	-26.1	Peak	Vertical
*	13180.5	34.0	12.6	46.6	68.2	-21.6	Peak	Vertical
*	14107.0	33.1	15.2	48.3	68.2	-19.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 - Ant 1 + 2	Test Site:	AC1
Test Channel:	48	Test Engineer:	Milo Li
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
	9381.0	34.9	10.5	45.4	74.0	-28.6	Peak	Horizontal
	10987.5	35.2	13.0	48.2	74.0	-25.8	Peak	Horizontal
*	12840.5	35.1	11.9	47.0	68.2	-21.2	Peak	Horizontal
*	13886.0	35.5	14.6	50.1	68.2	-18.1	Peak	Horizontal
	9185.5	34.5	10.0	44.5	74.0	-29.5	Peak	Vertical
	11132.0	35.0	12.7	47.7	74.0	-26.3	Peak	Vertical
*	13435.5	34.7	13.6	48.3	68.2	-19.9	Peak	Vertical
*	14540.5	34.8	15.7	50.5	68.2	-17.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 - Ant 1 + 2	Test Site:	AC1
Test Channel:	149	Test Engineer:	Milo Li
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
	9398.0	35.0	10.5	45.5	74.0	-28.5	Peak	Horizontal
	11489.0	34.9	12.8	47.7	74.0	-26.3	Peak	Horizontal
*	13945.5	35.0	14.7	49.7	68.2	-18.5	Peak	Horizontal
*	15118.5	34.9	14.2	49.1	68.2	-19.1	Peak	Horizontal
	8089.0	35.0	8.6	43.6	74.0	-30.4	Peak	Vertical
	9347.0	33.1	10.5	43.6	74.0	-30.4	Peak	Vertical
*	11140.5	34.4	12.6	47.0	68.2	-21.2	Peak	Vertical
*	13911.5	34.8	14.6	49.4	68.2	-18.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 - Ant 1 + 2	Test Site:	AC1
Test Channel:	157	Test Engineer:	Milo Li
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
	9355.5	34.0	10.5	44.5	74.0	-29.5	Peak	Horizontal
	10979.0	34.1	13.0	47.1	74.0	-26.9	Peak	Horizontal
*	13750.0	34.1	14.2	48.3	68.2	-19.9	Peak	Horizontal
*	14855.0	34.2	15.1	49.3	68.2	-18.9	Peak	Horizontal
	9347.0	34.5	10.5	45.0	74.0	-29.0	Peak	Vertical
	10384.0	34.9	12.3	47.2	74.0	-26.8	Peak	Vertical
*	13741.5	34.7	14.2	48.9	68.2	-19.3	Peak	Vertical
*	14948.5	34.3	14.8	49.1	68.2	-19.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 - Ant 1 + 2	Test Site:	AC1
Test Channel:	165	Test Engineer:	Milo Li
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
	9151.5	34.3	9.8	44.1	74.0	-29.9	Peak	Horizontal
	11523.0	34.5	12.7	47.2	74.0	-26.8	Peak	Horizontal
*	13639.5	34.6	13.9	48.5	68.2	-19.7	Peak	Horizontal
*	14948.5	32.9	14.8	47.7	68.2	-20.5	Peak	Horizontal
	9372.5	33.5	10.5	44.0	74.0	-30.0	Peak	Vertical
	10766.5	34.7	12.5	47.2	74.0	-26.8	Peak	Vertical
*	13461.0	35.1	13.7	48.8	68.2	-19.4	Peak	Vertical
*	15229.0	35.1	13.6	48.7	68.2	-19.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 - Ant 1 + 2	Test Site:	AC1
Test Channel:	38	Test Engineer:	Milo Li
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
	9355.5	34.1	10.5	44.6	74.0	-29.4	Peak	Horizontal
	10647.5	34.5	12.3	46.8	74.0	-27.2	Peak	Horizontal
*	13104.0	34.6	12.5	47.1	68.2	-21.1	Peak	Horizontal
*	14243.0	35.0	15.5	50.5	68.2	-17.7	Peak	Horizontal
	9364.0	34.2	10.5	44.7	74.0	-29.3	Peak	Vertical
	11004.5	34.4	13.0	47.4	74.0	-26.6	Peak	Vertical
*	13104.0	35.4	12.5	47.9	68.2	-20.3	Peak	Vertical
*	14532.0	34.2	15.7	49.9	68.2	-18.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 - Ant 1 + 2	Test Site:	AC1
Test Channel:	46	Test Engineer:	Milo Li
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
	9398.0	33.4	10.5	43.9	74.0	-30.1	Peak	Horizontal
	11523.0	34.5	12.7	47.2	74.0	-26.8	Peak	Horizontal
*	13121.0	34.2	12.5	46.7	68.2	-21.5	Peak	Horizontal
*	14064.5	34.2	15.1	49.3	68.2	-18.9	Peak	Horizontal
	9381.0	33.8	10.5	44.3	74.0	-29.7	Peak	Vertical
	10664.5	34.4	12.3	46.7	74.0	-27.3	Peak	Vertical
*	12840.5	34.3	11.9	46.2	68.2	-22.0	Peak	Vertical
*	15135.5	34.9	14.1	49.0	68.2	-19.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 - Ant 1 + 2	Test Site:	AC1
Test Channel:	151	Test Engineer:	Milo Li
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
	9457.5	33.8	10.5	44.3	74.0	-29.7	Peak	Horizontal
	10962.0	33.5	13.1	46.6	74.0	-27.4	Peak	Horizontal
*	12883.0	34.1	12.0	46.1	68.2	-22.1	Peak	Horizontal
*	14319.5	34.0	15.6	49.6	68.2	-18.6	Peak	Horizontal
	9423.5	34.5	10.6	45.1	74.0	-28.9	Peak	Vertical
	11404.0	34.6	12.6	47.2	74.0	-26.8	Peak	Vertical
*	13010.5	34.3	12.2	46.5	68.2	-21.7	Peak	Vertical
*	14081.5	34.7	15.1	49.8	68.2	-18.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 - Ant 1 + 2	Test Site:	AC1
Test Channel:	159	Test Engineer:	Milo Li
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
	9432.0	34.5	10.5	45.0	74.0	-29.0	Peak	Horizontal
	10987.5	34.7	13.0	47.7	74.0	-26.3	Peak	Horizontal
*	12857.5	34.3	11.9	46.2	68.2	-22.0	Peak	Horizontal
*	14013.5	34.9	14.9	49.8	68.2	-18.4	Peak	Horizontal
	9406.5	33.8	10.6	44.4	74.0	-29.6	Peak	Vertical
	10724.0	34.3	12.4	46.7	74.0	-27.3	Peak	Vertical
*	13112.5	34.5	12.5	47.0	68.2	-21.2	Peak	Vertical
*	14625.5	34.0	15.7	49.7	68.2	-18.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11ac-VHT80 - Ant 1 + 2	Test Site:	AC1
Test Channel:	42	Test Engineer:	Milo Li
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
	9372.5	35.4	10.5	45.9	74.0	-28.1	Peak	Horizontal
	10877.0	34.6	12.9	47.5	74.0	-26.5	Peak	Horizontal
*	13733.0	34.8	14.2	49.0	68.2	-19.2	Peak	Horizontal
*	15127.0	35.1	14.2	49.3	68.2	-18.9	Peak	Horizontal
	7553.5	35.6	8.3	43.9	74.0	-30.1	Peak	Vertical
	9194.0	34.6	10.1	44.7	74.0	-29.3	Peak	Vertical
*	12755.5	35.6	11.7	47.3	68.2	-20.9	Peak	Vertical
*	16291.5	35.9	12.9	48.8	68.2	-19.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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:	802.11ac-VHT80 - Ant 1 + 2	Test Site:	AC1
Test Channel:	155	Test Engineer:	Milo Li
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
	7562.0	36.6	8.2	44.8	74.0	-29.2	Peak	Horizontal
	9313.0	34.4	10.4	44.8	74.0	-29.2	Peak	Horizontal
*	12993.5	34.7	12.1	46.8	68.2	-21.4	Peak	Horizontal
*	16767.5	36.5	14.7	51.2	68.2	-17.0	Peak	Horizontal
	7502.5	35.4	8.3	43.7	74.0	-30.3	Peak	Vertical
	10630.5	34.6	12.4	47.0	74.0	-27.0	Peak	Vertical
*	13206.0	34.4	12.6	47.0	68.2	-21.2	Peak	Vertical
*	16546.5	35.2	13.6	48.8	68.2	-19.4	Peak	Vertical

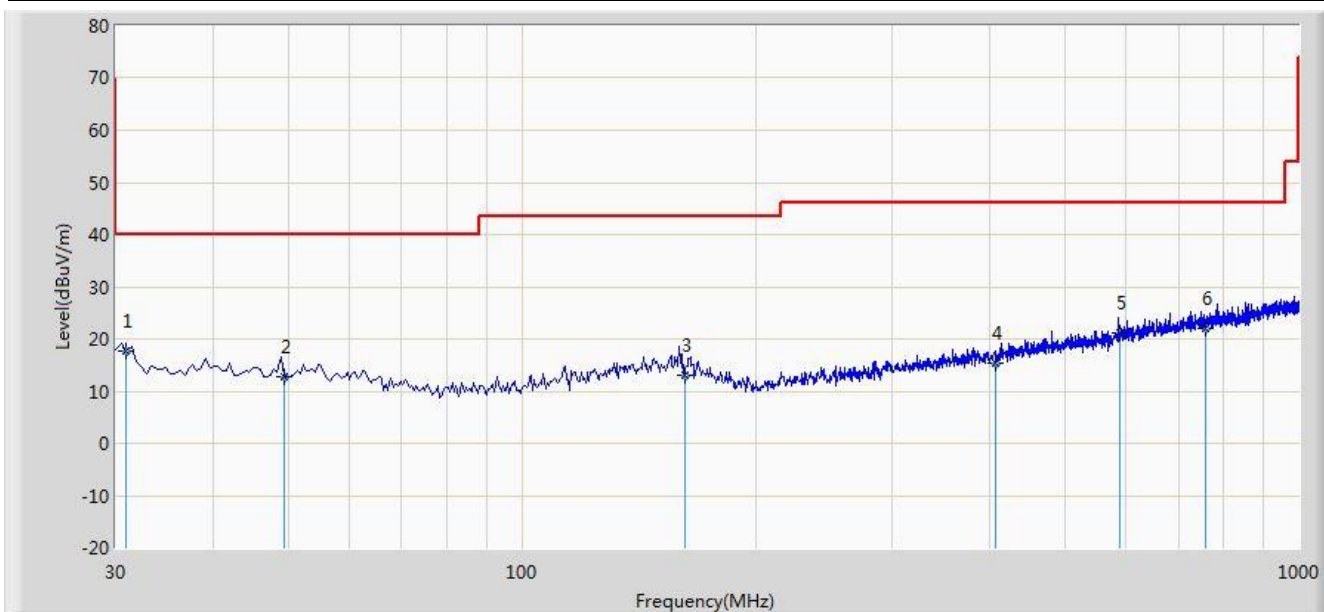
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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: AC 1	Time: 2016/06/16 - 12:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Worst Mode: Transmit by 802.11n-HT40 at channel 5230MHz Ant 1 + 2	

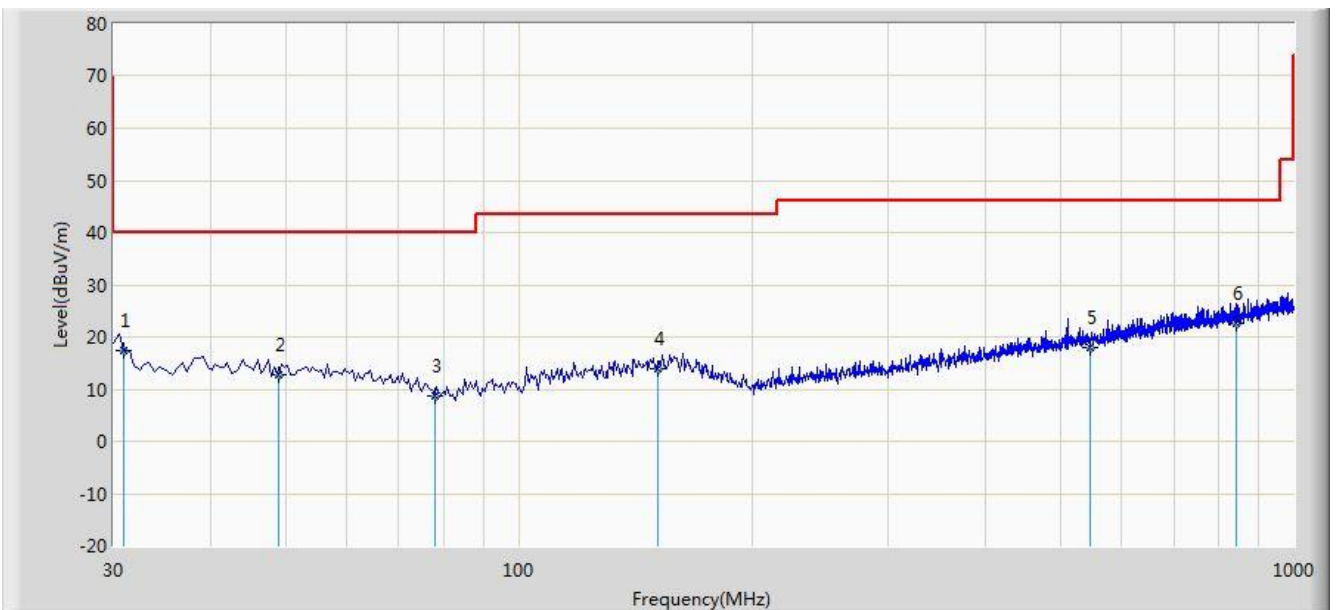


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	30.970	17.682	4.033	-22.318	40.000	13.649	QP
2			49.400	12.667	-1.423	-27.333	40.000	14.090	QP
3			161.920	12.953	-2.069	-30.547	43.500	15.022	QP
4			407.815	15.507	-1.195	-30.493	46.000	16.702	QP
5			588.720	21.218	0.984	-24.782	46.000	20.234	QP
6			758.955	22.066	-0.765	-23.934	46.000	22.831	QP

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

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

Site: AC 1	Time: 2016/06/16 - 12:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Worst Mode: Transmit by 802.11n-HT40 at channel 5230MHz Ant 1 + 2	

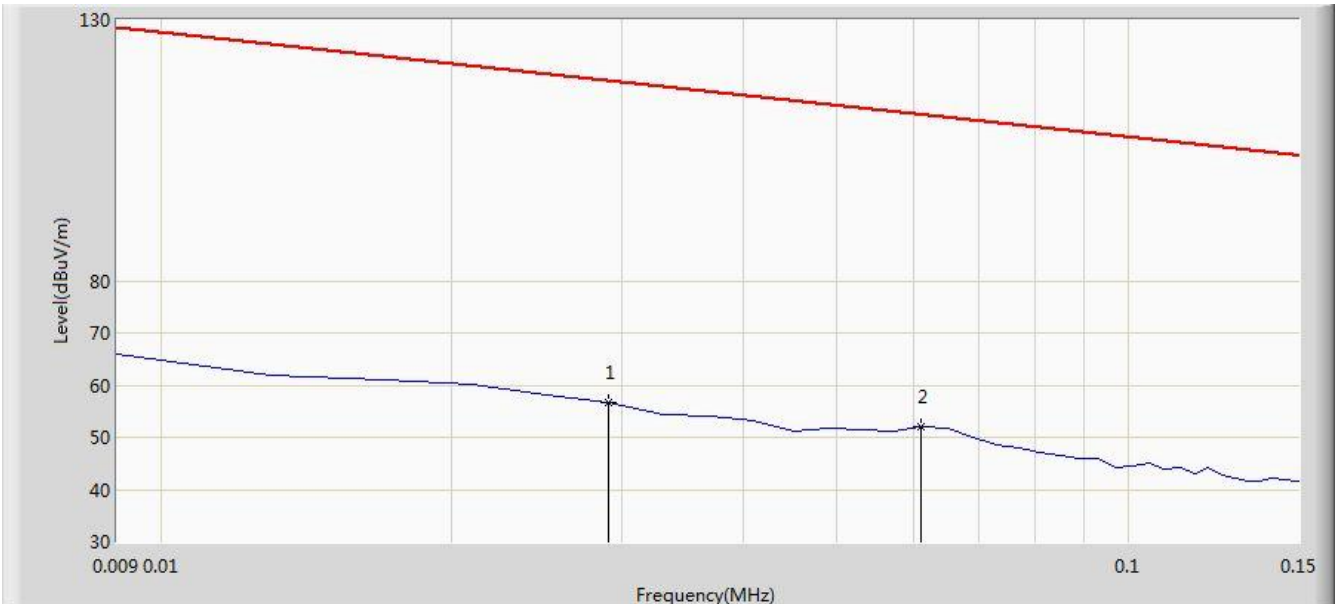


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	30.970	17.293	3.644	-22.707	40.000	13.649	QP
2			48.915	12.723	-1.374	-27.277	40.000	14.097	QP
3			78.015	8.721	-1.578	-31.279	40.000	10.299	QP
4			151.250	13.926	-1.258	-29.574	43.500	15.184	QP
5			545.070	18.009	-1.374	-27.991	46.000	19.383	QP
6			841.890	22.477	-1.105	-23.523	46.000	23.582	QP

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

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

Site: AC1	Time: 2016/06/16 - 19:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: FMZB1519_0.009-30MHz	Polarity: Face on
EUT: WIFI Module	Power: DC 5V
Note: There is the ambient noise within frequency range 9kHz~30MHz.	

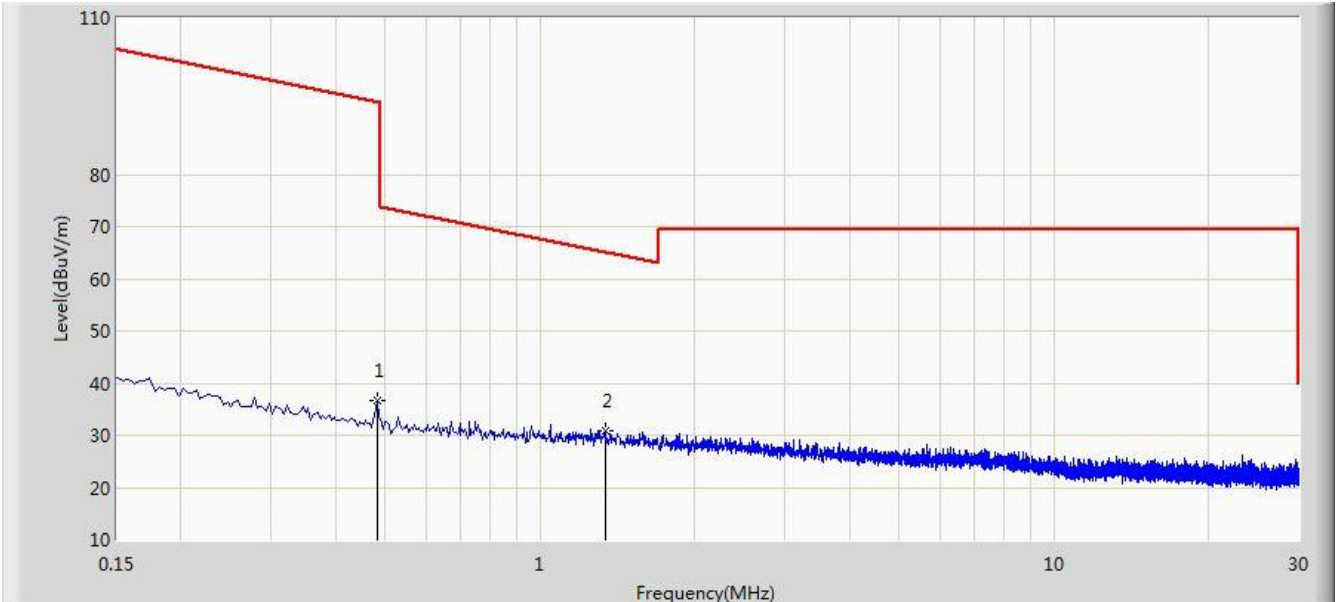


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.029	56.610	35.660	-61.732	118.342	21.049	QP
2		*	0.061	51.899	31.588	-59.988	111.887	20.311	QP

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

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

Site: AC1	Time: 2016/06/16 - 19:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: FMZB1519_0.009-30MHz	Polarity: Face on
EUT: WIFI Module	Power: DC 5V
Note: There is the ambient noise within frequency range 9kHz~30MHz.	

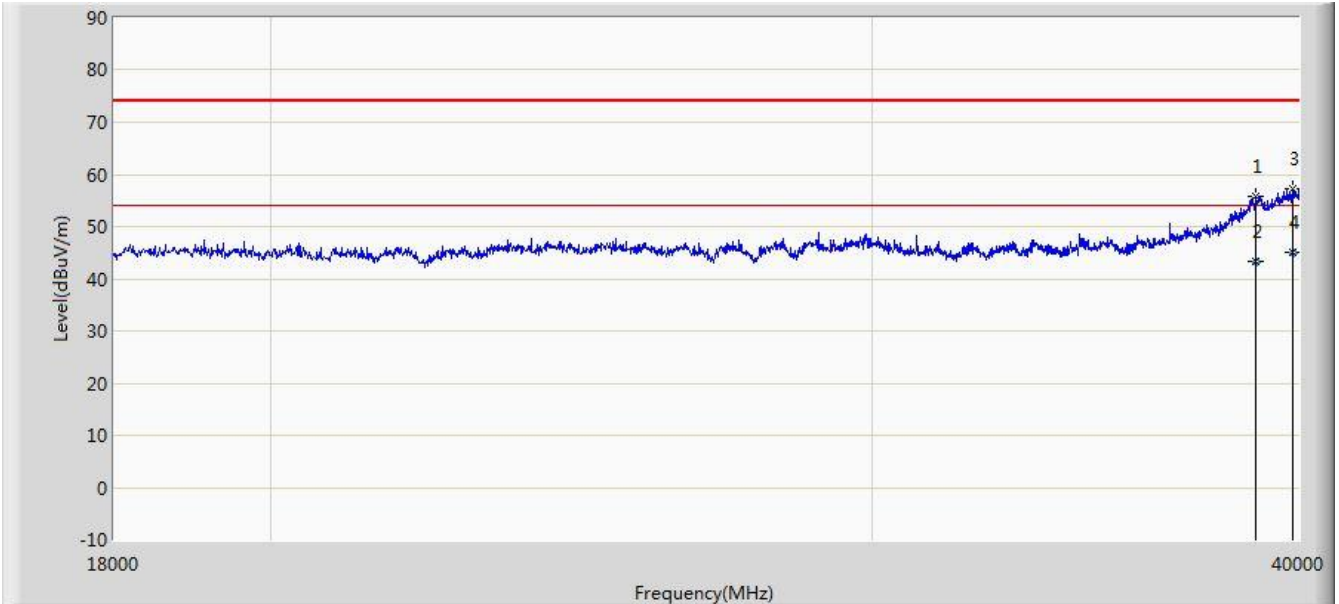


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.482	36.584	16.183	-57.359	93.943	20.401	QP
2		*	1.338	31.001	10.512	-34.098	65.099	20.489	QP

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

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

Site: AC1	Time: 2016/06/16 - 21:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: BBHA9170_18-40GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Note: There is the ambient noise within frequency range 18GHz~40GHz.	

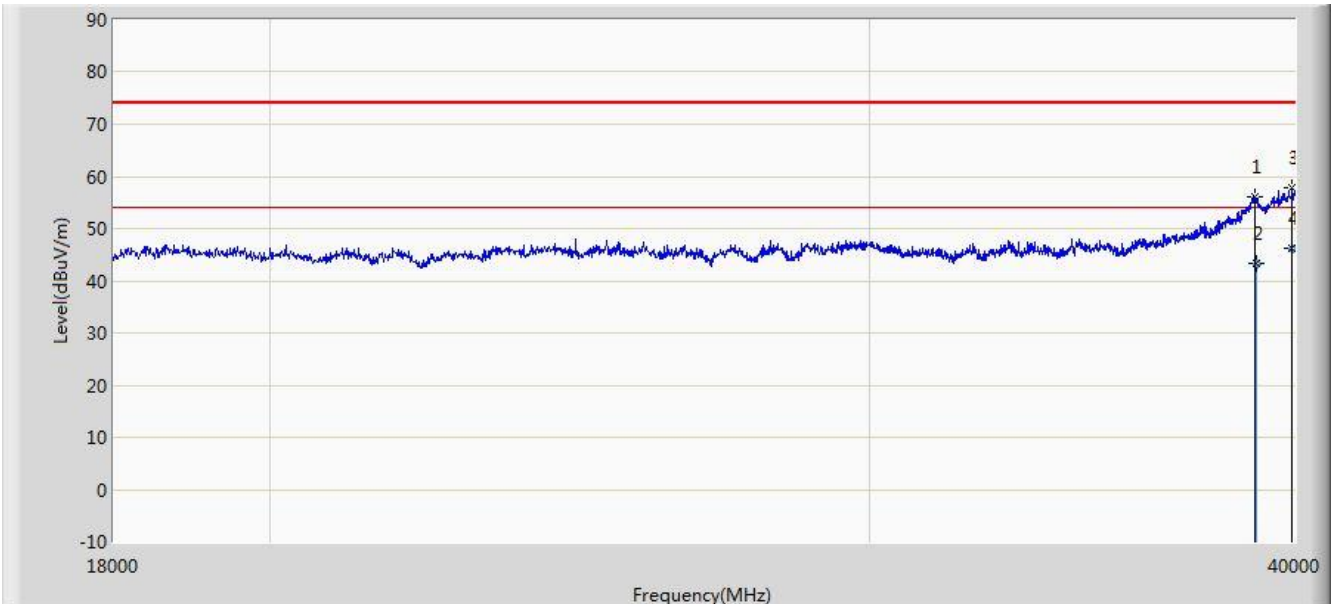


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			38867.000	55.837	38.894	-18.163	74.000	16.943	PK
2			38867.120	43.315	26.372	-10.685	54.000	16.943	AV
3			39857.000	57.224	38.493	-16.776	74.000	18.731	PK
4		*	39857.012	45.115	26.384	-8.885	54.000	18.731	AV

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

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

Site: AC1	Time: 2016/06/14 - 15:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: BBHA9170_18-40GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Note: There is the ambient noise within frequency range 18GHz~40GHz.	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			38955.000	56.014	38.956	-17.986	74.000	17.058	PK
2			38959.473	43.355	26.293	-10.645	54.000	17.062	AV
3			39923.000	57.939	39.067	-16.061	74.000	18.872	PK
4		*	39923.027	46.264	27.392	-7.736	54.000	18.872	AV

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

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

7.10. Radiated Restricted Band Edge Measurement

7.10.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 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 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

For RSS-Gen Section 8.10 Requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.009 - 0.110	240 - 285	9.0 - 9.2
2.1735 - 2.1905	322 - 335.4	9.3 - 9.5
3.020 - 3.026	399.9 - 410	10.6 - 12.7
4.125 - 4.128	608 - 614	13.25 - 13.4
4.17725 - 4.17775	960 - 1427	14.47 - 14.5
4.20725 - 4.20775	1435 - 1626.5	15.35 - 16.2
5.677 - 5.683	1645.5 - 1646.5	17.7 - 21.4
6.215 - 6.218	1660 - 1710	22.01 - 23.12
6.26775 - 6.26825	1718.8 -1722.2	23.6 - 24.0
6.31175 - 6.31225	2200 - 2300	31.2 - 31.8
8.291 - 8.294	2310 -2390	36.43 - 36.5
8.362 - 8.366	2655 - 2900	Above 38.6
8.37625 - 8.38675	3260 - 3267	--
8.41425 - 8.41475	3332 -3339	
12.29 - 12.293	334.5 - 3358	
12.51975 - 12.52025	3500 - 4400	
12.57675 - 12.57725	4500 - 5150	
13.36 -13.41	5350 - 5460	
16.42 - 16.423	7250 - 7750	
16.69475 - 16.69525	8025 - 8500	
16.80425 - 16.80475	--	
25.5 - 25.67		
37.5 - 38.25		
73 - 74.6		
74.8 - 75.2		
108 - 138		
156.52475 - 156.525225		
156.7 - 156.9		

Note: *Certain frequency bands listed in Table 6 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to the

devices are set out in the 200- and 300-series of RSSs, such as RSS-210 and RSS-310, which contain the requirements that apply to licence-exempt radio apparatus.

For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

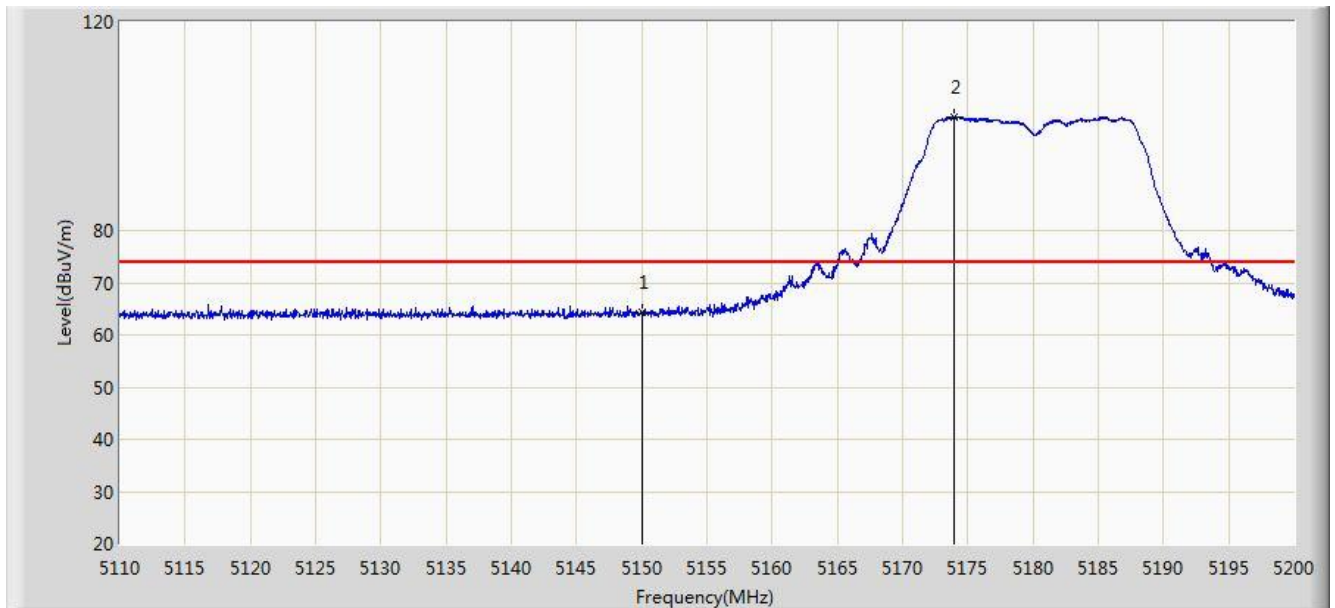
Refer to KDB 789033 D02v01r02 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission 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

7.10.2. Test Result of Radiated Restricted Band Edge

Site: AC1	Time: 2016/06/14 - 19:08
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 1	

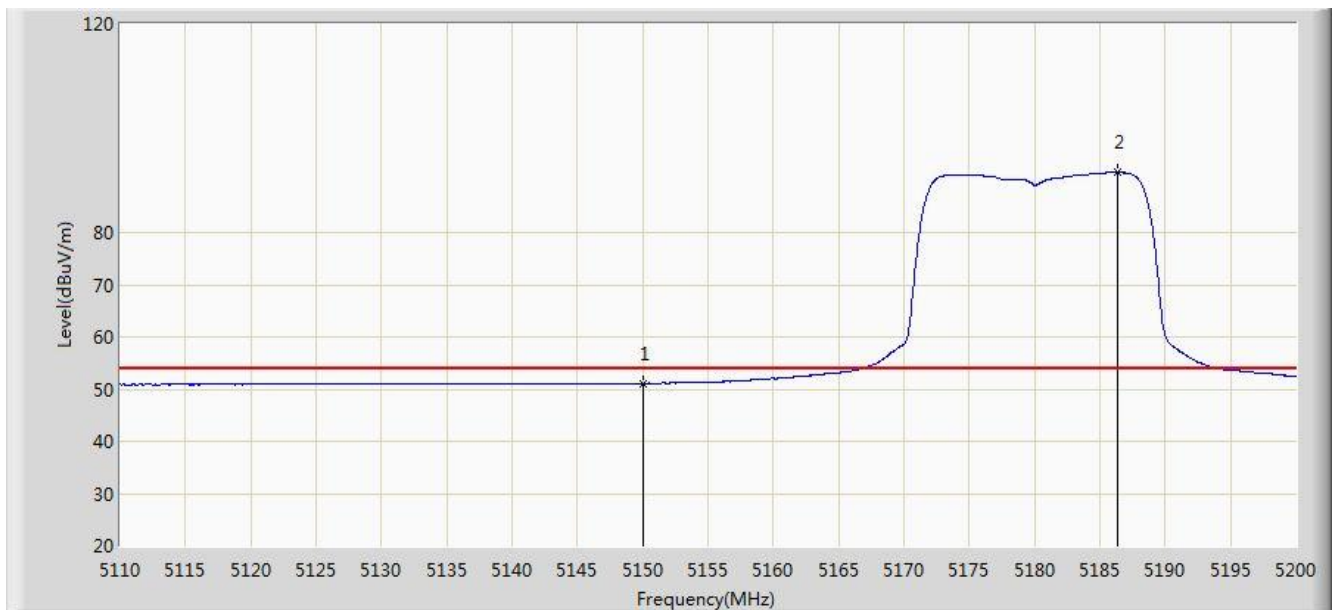


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	64.276	26.824	-9.724	74.000	37.452	PK
2		*	5173.900	101.840	64.452	N/A	N/A	37.387	PK

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

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

Site: AC1	Time: 2016/06/14 - 19:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 1	

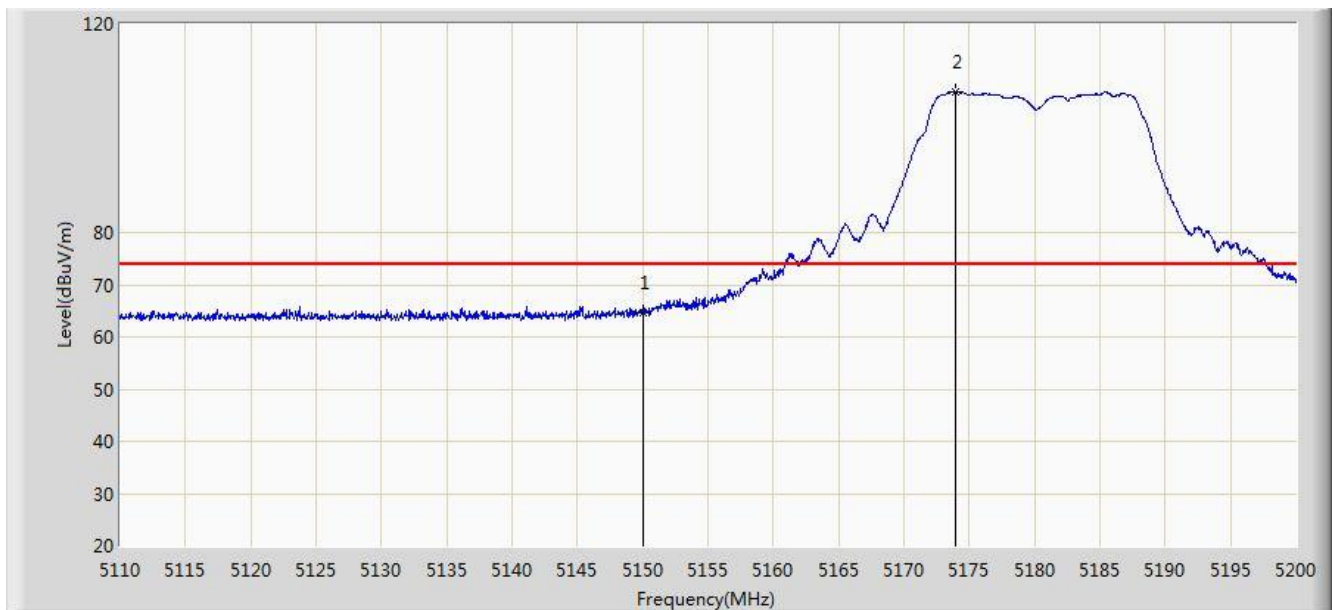


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.142	13.690	-2.858	54.000	37.452	AV
2		*	5186.365	91.585	54.227	N/A	N/A	37.358	AV

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

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

Site: AC1	Time: 2016/06/14 - 19:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 1	

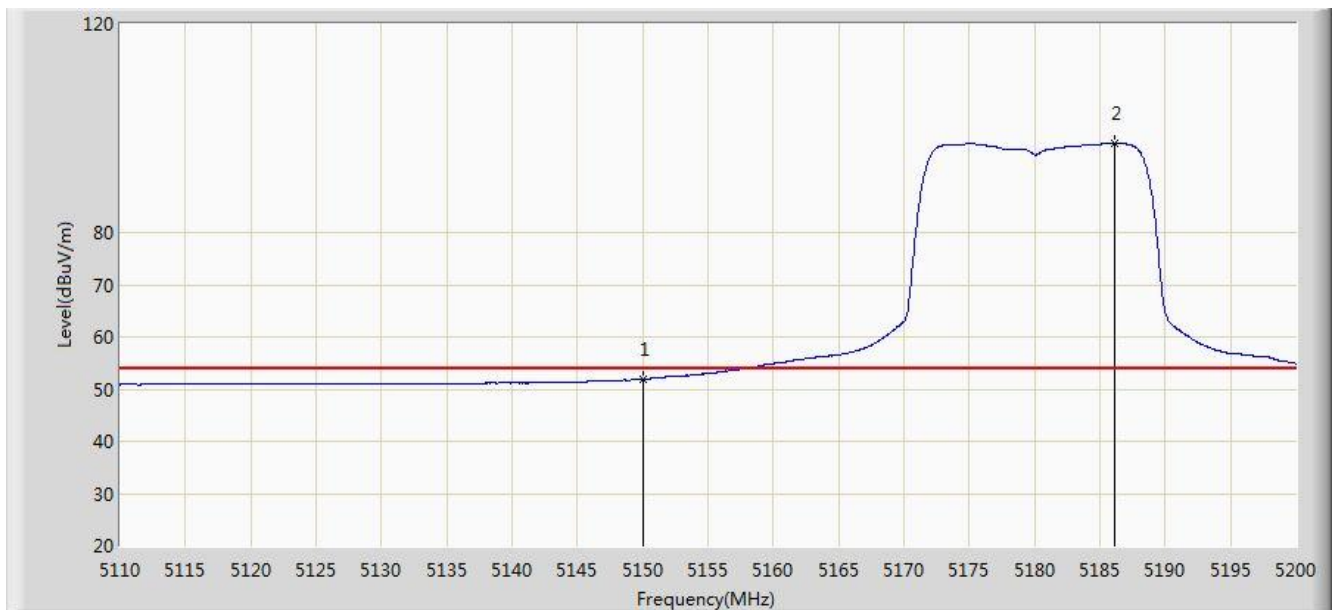


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	64.503	27.051	-9.497	74.000	37.452	PK
2		*	5173.900	106.916	69.528	N/A	N/A	37.387	PK

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

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

Site: AC1	Time: 2016/06/14 - 19:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 1	

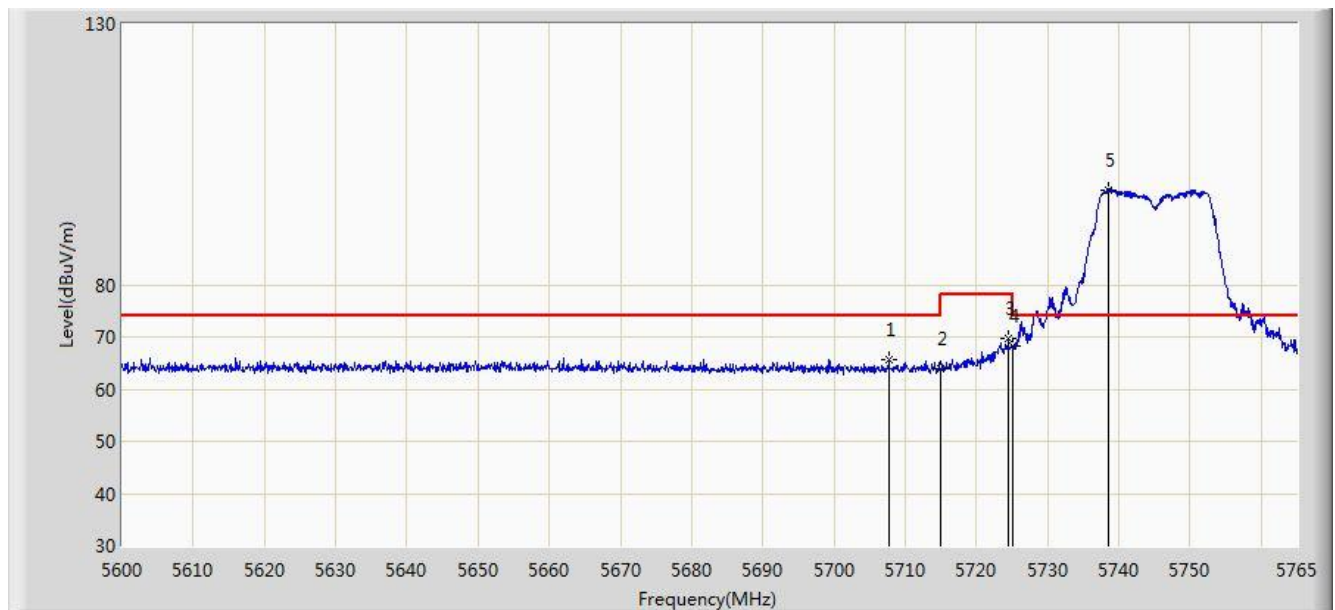


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.892	14.440	-2.108	54.000	37.452	AV
2		*	5186.095	97.204	59.845	N/A	N/A	37.359	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 1	

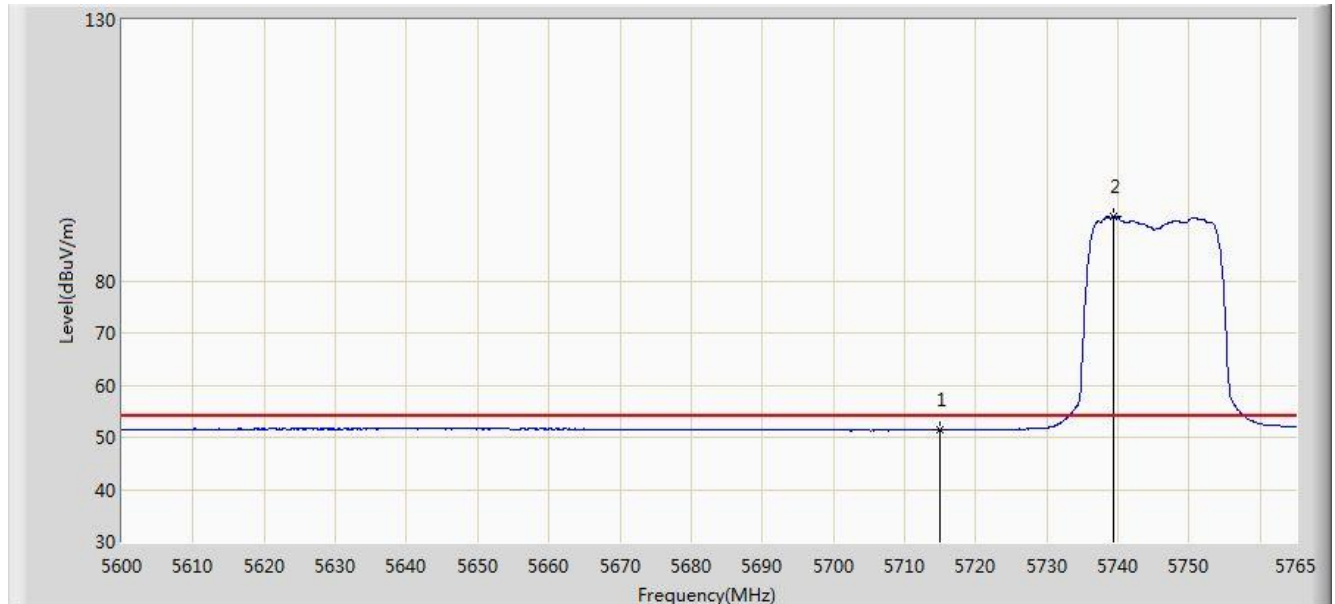


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5707.745	65.628	27.708	-8.372	74.000	37.919	PK
2			5715.000	63.815	25.866	-10.185	74.000	37.949	PK
3			5724.493	69.569	31.581	-8.631	78.200	37.988	PK
4			5725.000	68.174	30.184	-10.026	78.200	37.990	PK
5		*	5738.435	98.183	60.138	N/A	N/A	38.045	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 1	

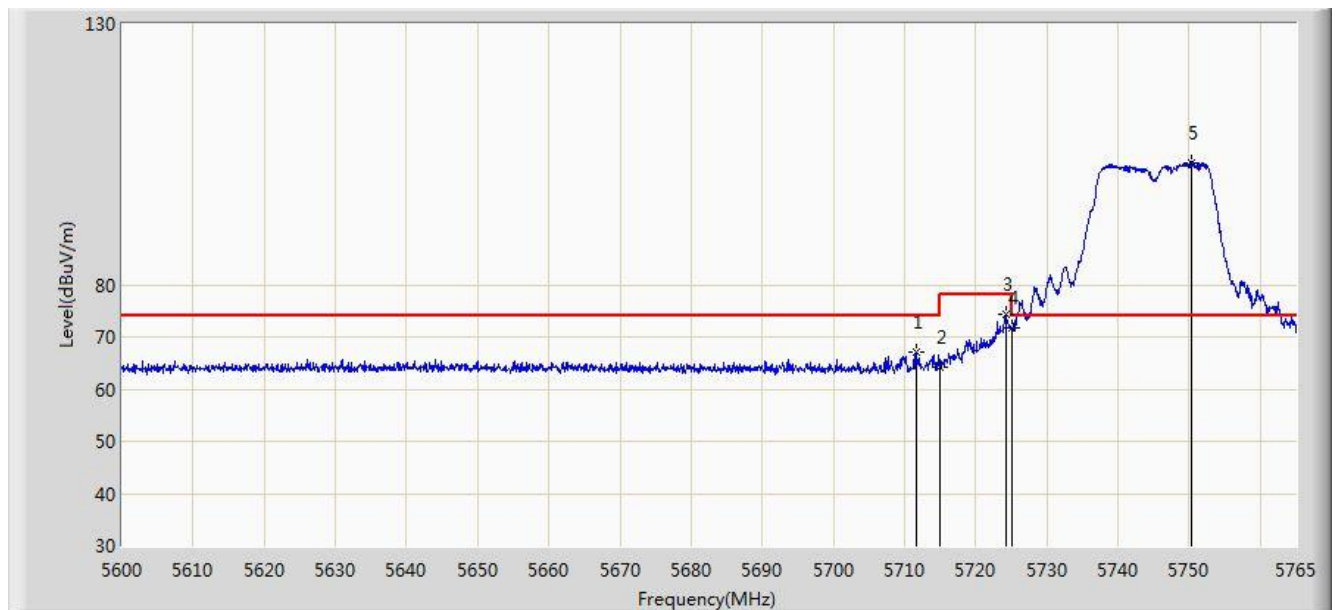


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.409	13.460	-2.591	54.000	37.949	AV
2		*	5739.260	92.217	54.169	N/A	N/A	38.048	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11a ant 1	

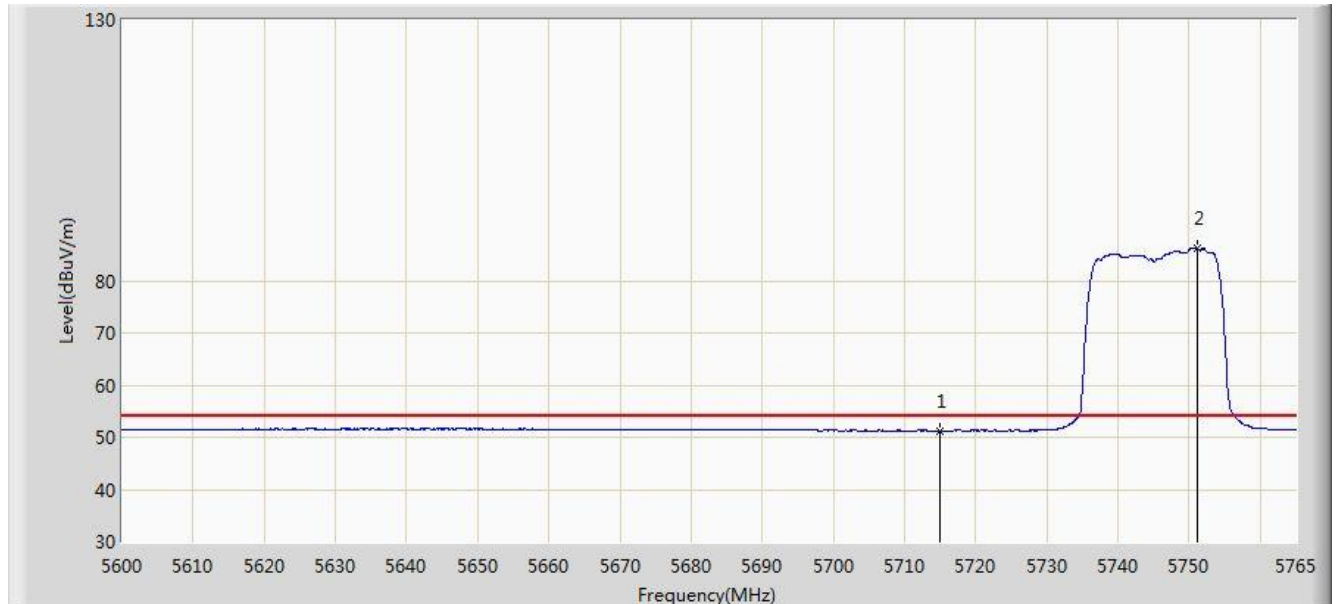


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5711.623	67.235	29.299	-6.765	74.000	37.936	PK
2			5715.000	64.150	26.201	-9.850	74.000	37.949	PK
3			5724.245	74.376	36.389	-3.824	78.200	37.987	PK
4			5725.000	71.614	33.624	-6.586	78.200	37.990	PK
5		*	5750.232	103.451	65.354	N/A	N/A	38.097	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 1	

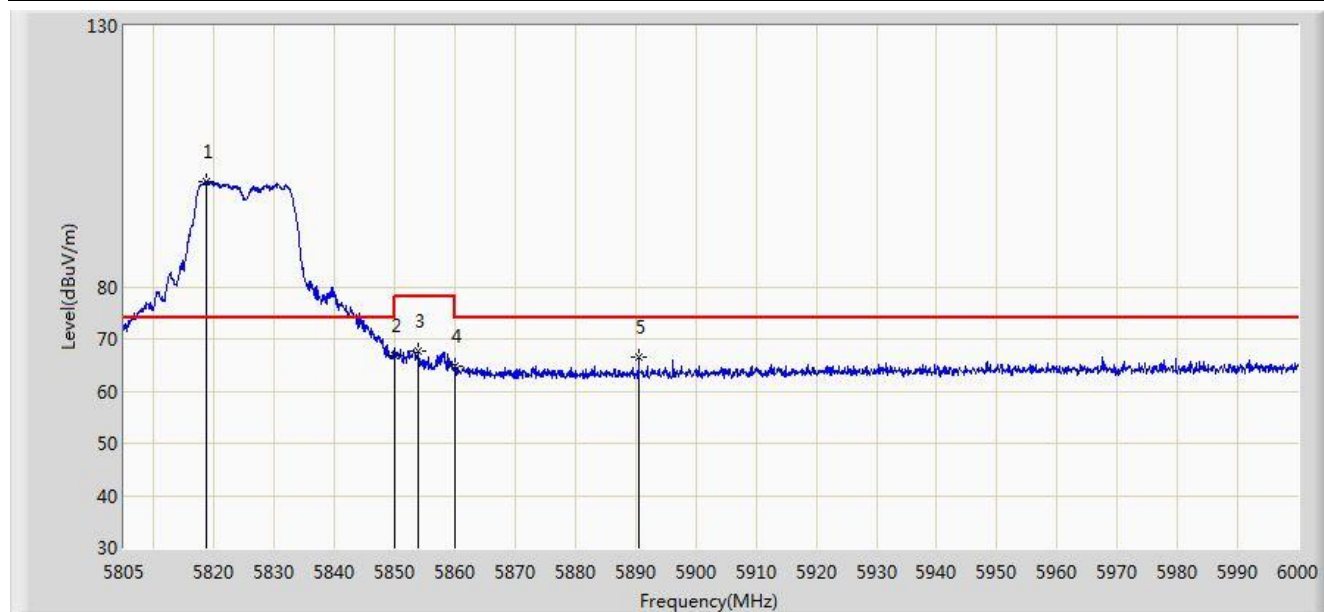


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.270	13.321	-2.730	54.000	37.949	AV
2		*	5751.058	86.147	48.046	N/A	N/A	38.101	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 1	

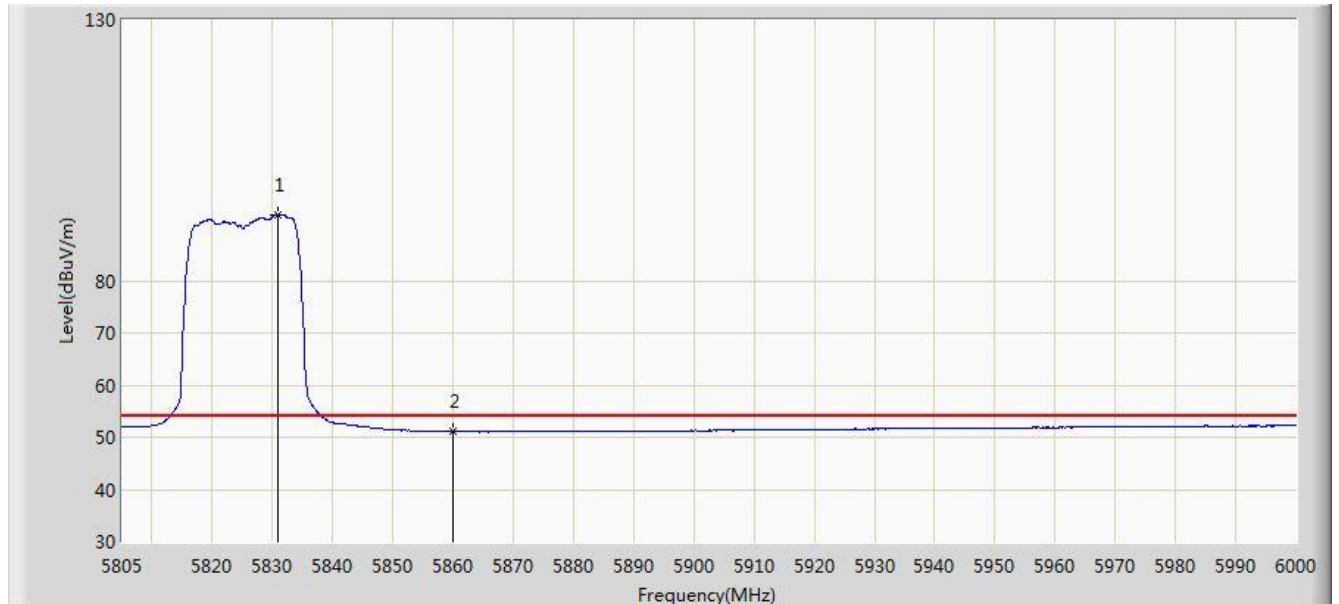


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5818.650	100.080	61.751	N/A	N/A	38.329	PK
2			5850.000	66.725	28.272	-11.475	78.200	38.454	PK
3			5853.750	67.734	29.272	-10.466	78.200	38.462	PK
4			5860.000	64.906	26.428	-9.094	74.000	38.478	PK
5			5890.507	66.478	27.969	-7.522	74.000	38.510	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 1	

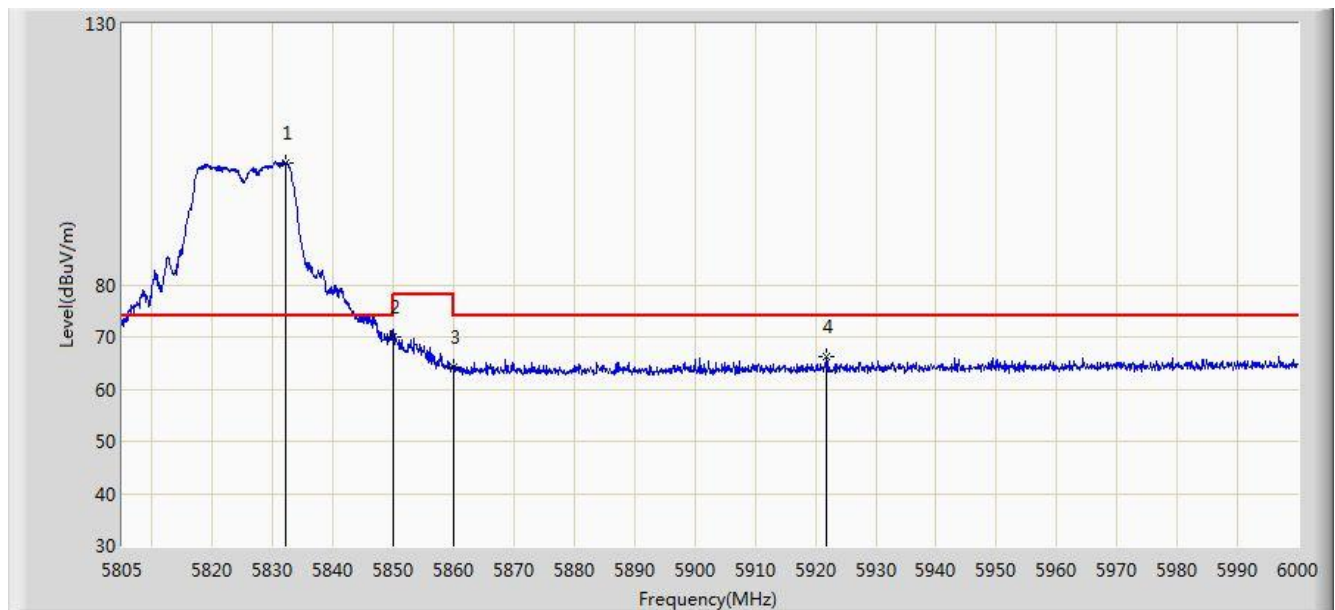


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5830.935	92.716	54.335	N/A	N/A	38.381	AV
2			5860.000	51.077	12.599	-2.923	54.000	38.478	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:08
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 1	

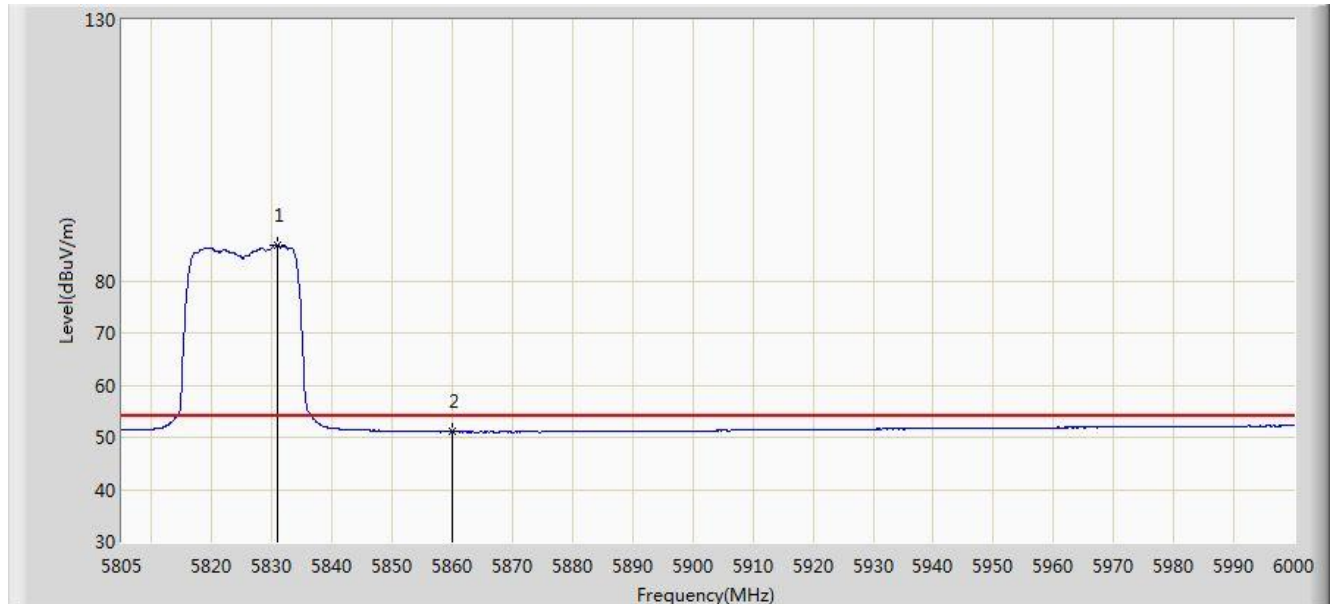


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5832.203	103.273	64.887	N/A	N/A	38.386	PK
2			5850.000	70.047	31.594	-8.153	78.200	38.454	PK
3			5860.000	64.284	25.806	-9.716	74.000	38.478	PK
4			5921.708	66.100	27.569	-7.900	74.000	38.531	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 1	

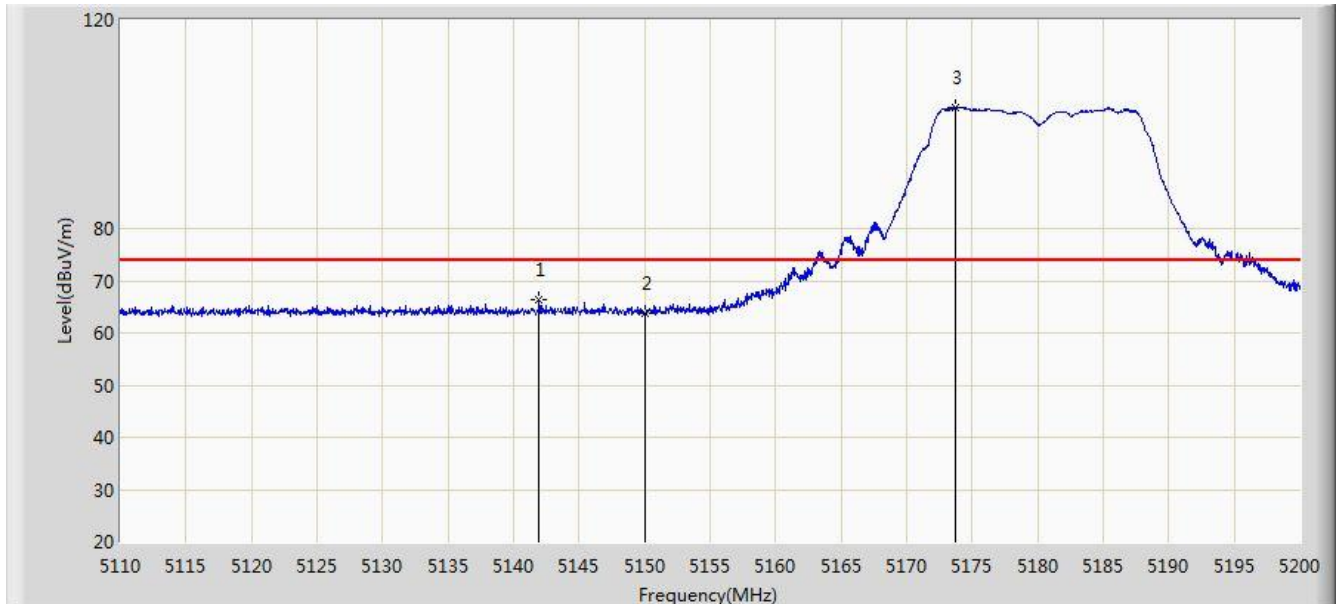


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5830.935	86.795	48.414	N/A	N/A	38.381	AV
2			5860.000	51.034	12.556	-2.966	54.000	38.478	AV

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

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

Site: AC1	Time: 2016/06/20 - 21:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 2	

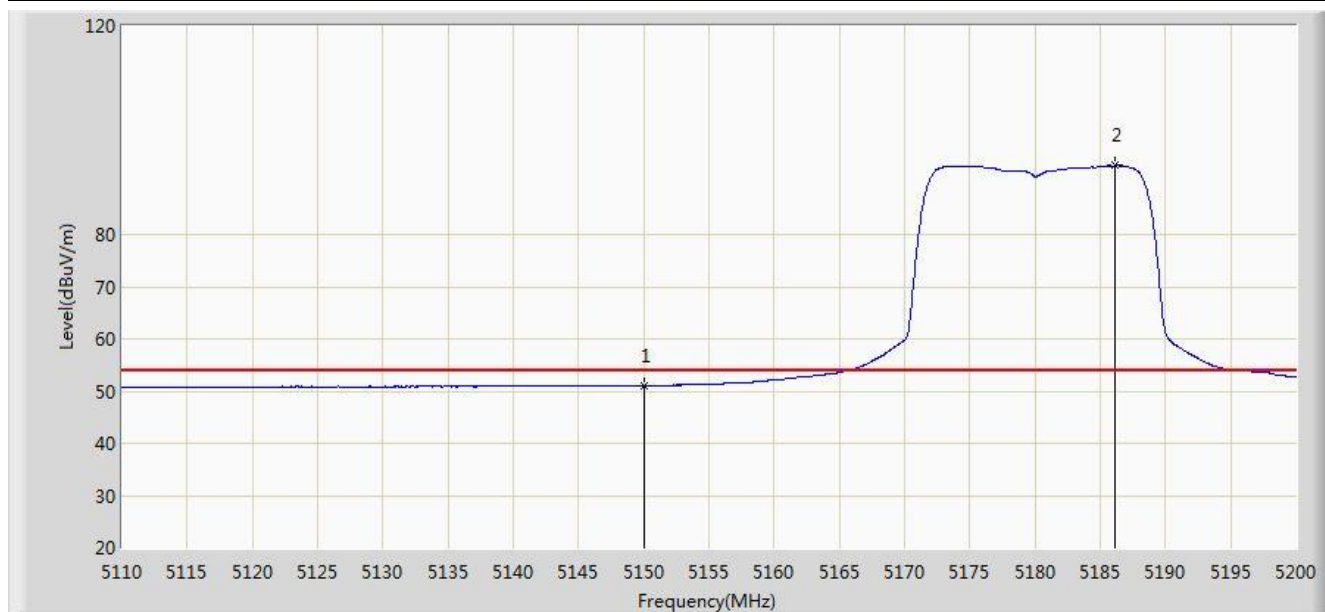


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5141.950	66.496	29.032	-7.504	74.000	37.464	PK
2			5150.000	63.895	26.443	-10.105	74.000	37.452	PK
3		*	5173.765	103.324	65.936	N/A	N/A	37.388	PK

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

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

Site: AC1	Time: 2016/06/20 - 21:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 2	

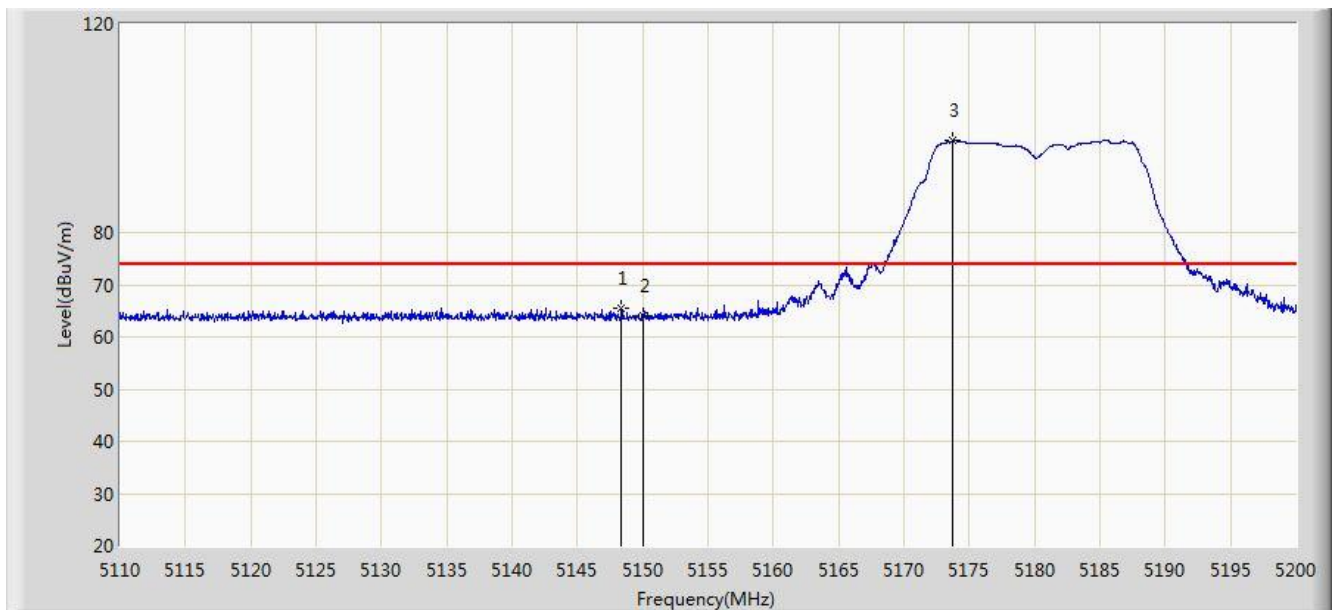


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.060	13.608	-2.940	54.000	37.452	AV
2		*	5186.095	93.192	55.833	N/A	N/A	37.359	AV

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

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

Site: AC1	Time: 2016/06/20 - 21:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 2	

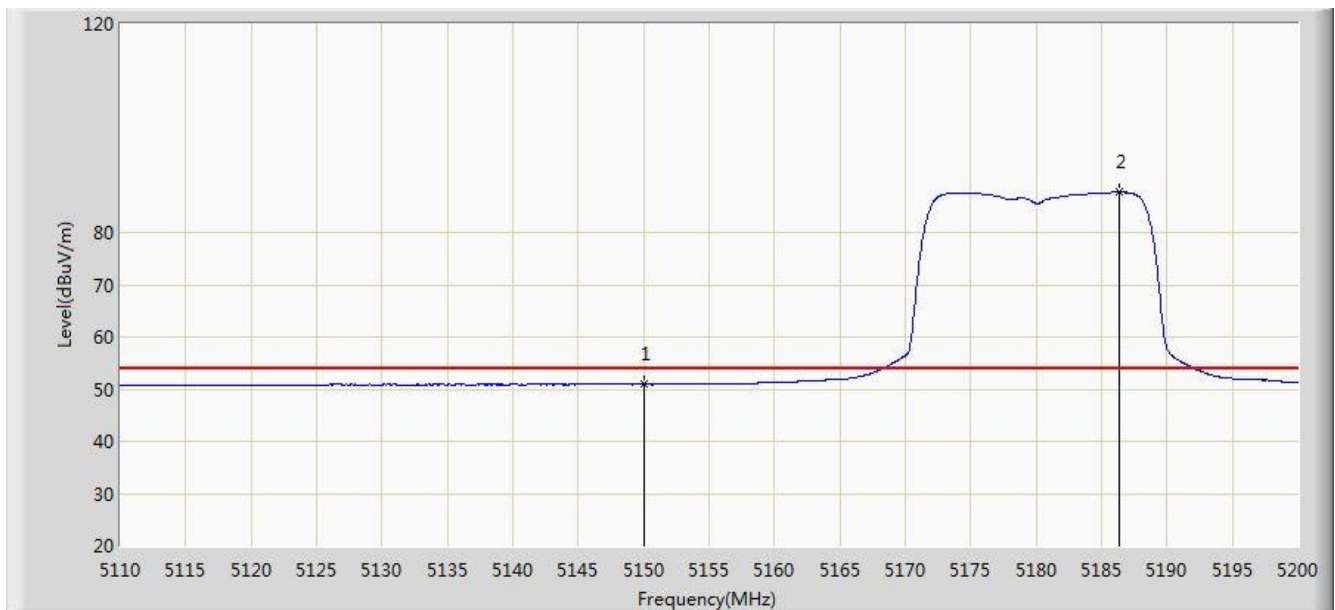


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.385	65.471	28.017	-8.529	74.000	37.454	PK
2			5150.000	64.123	26.671	-9.877	74.000	37.452	PK
3		*	5173.765	97.596	60.208	N/A	N/A	37.388	PK

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

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

Site: AC1	Time: 2016/06/20 - 21:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11a Ant 2	

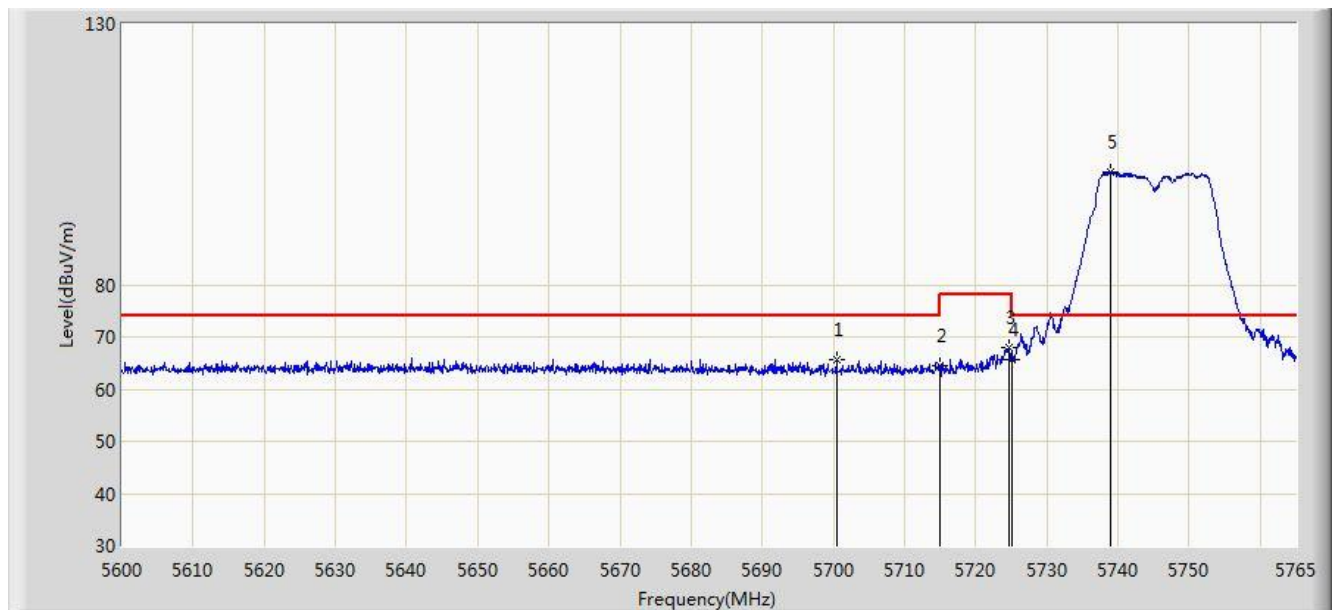


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.912	13.460	-3.088	54.000	37.452	AV
2		*	5186.320	87.858	50.500	N/A	N/A	37.358	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 2	

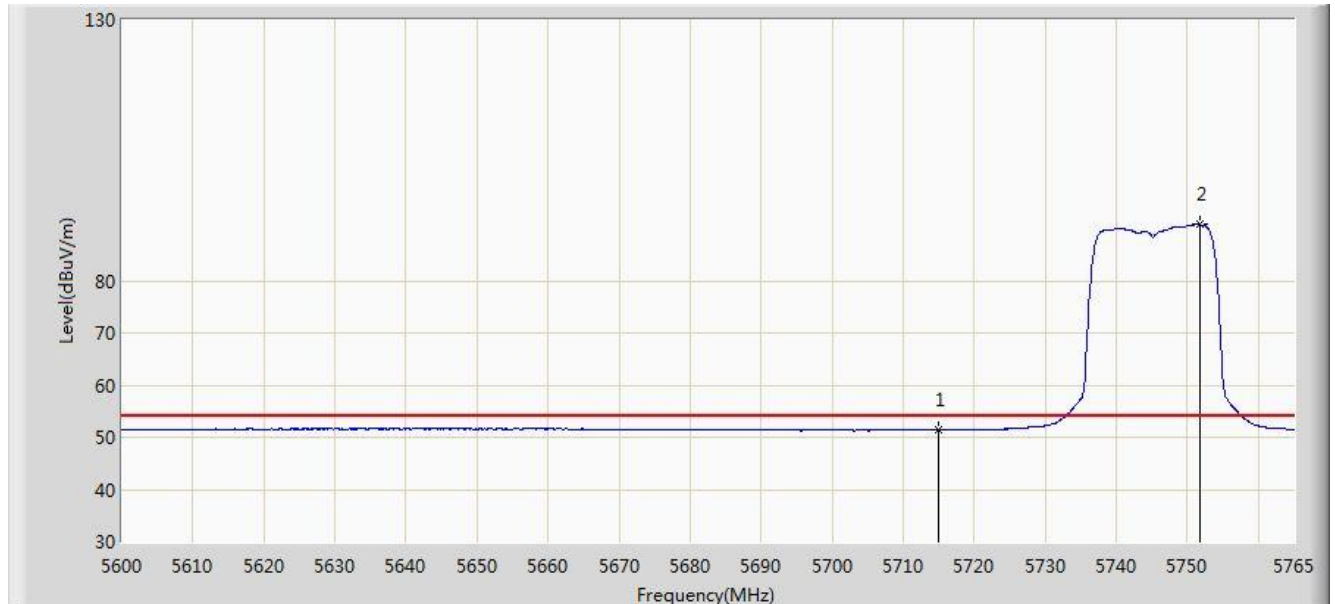


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5700.402	65.751	27.858	-8.249	74.000	37.893	PK
2			5715.000	64.448	26.499	-9.552	74.000	37.949	PK
3			5724.658	68.065	30.077	-10.135	78.200	37.989	PK
4			5725.000	65.591	27.601	-12.609	78.200	37.990	PK
5		*	5739.013	101.667	63.620	N/A	N/A	38.047	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 2	

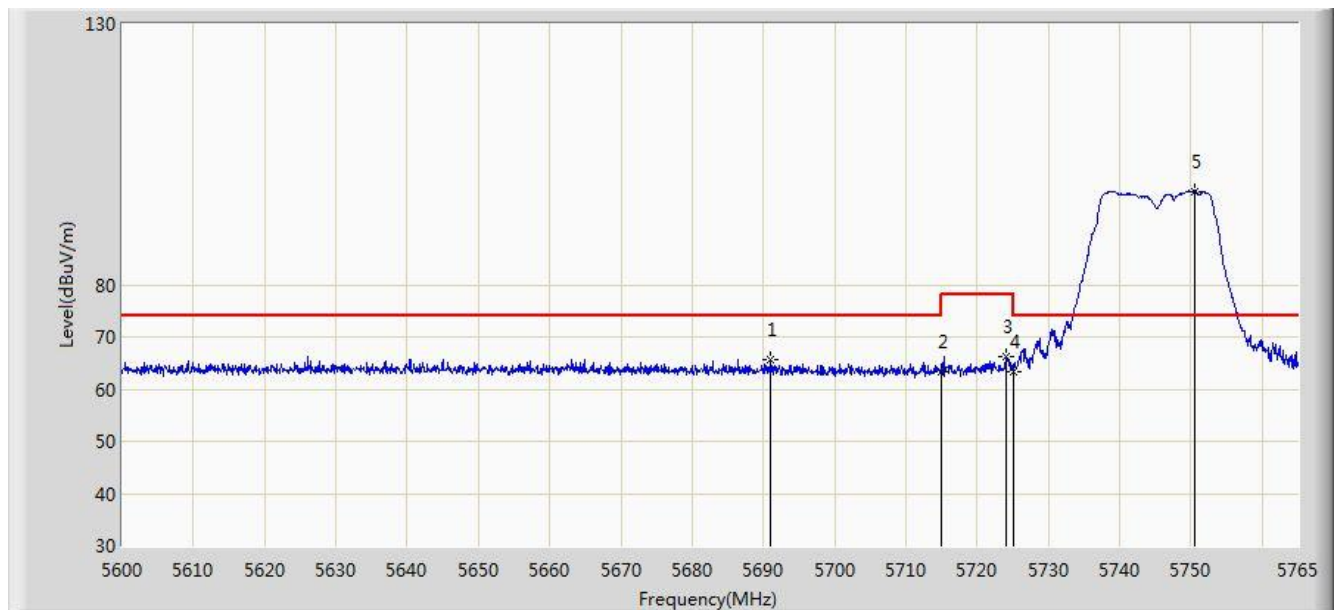


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.321	13.372	-2.679	54.000	37.949	AV
2		*	5751.800	90.743	52.639	N/A	N/A	38.105	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 2	

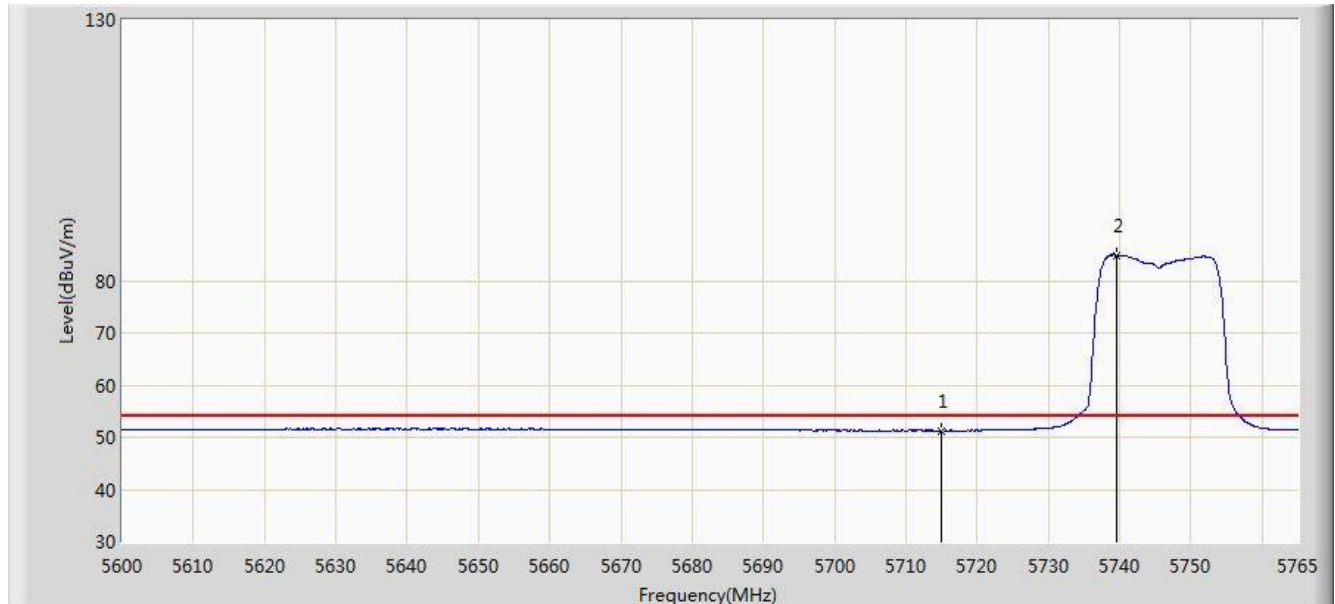


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5691.080	65.608	27.739	-8.392	74.000	37.870	PK
2			5715.000	63.374	25.425	-10.626	74.000	37.949	PK
3			5723.998	66.245	28.259	-11.955	78.200	37.986	PK
4			5725.000	63.465	25.475	-14.735	78.200	37.990	PK
5		*	5750.562	97.926	59.828	N/A	N/A	38.098	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11a Ant 2	

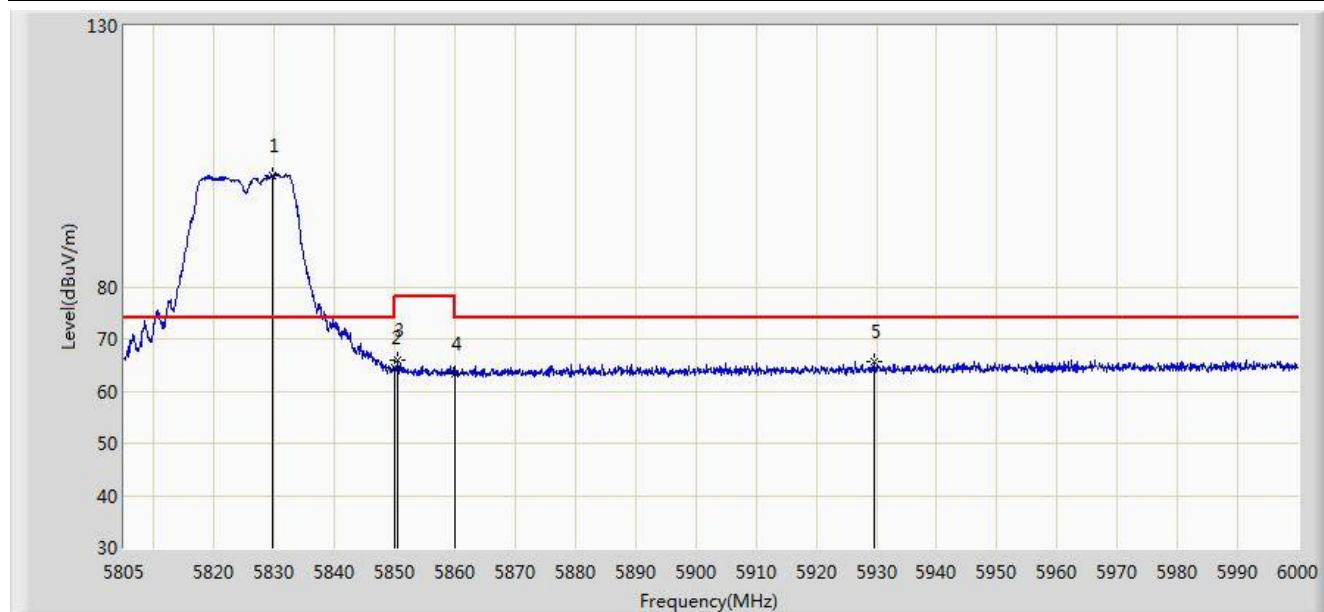


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.278	13.329	-2.722	54.000	37.949	AV
2		*	5739.507	84.903	46.854	N/A	N/A	38.049	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 2	

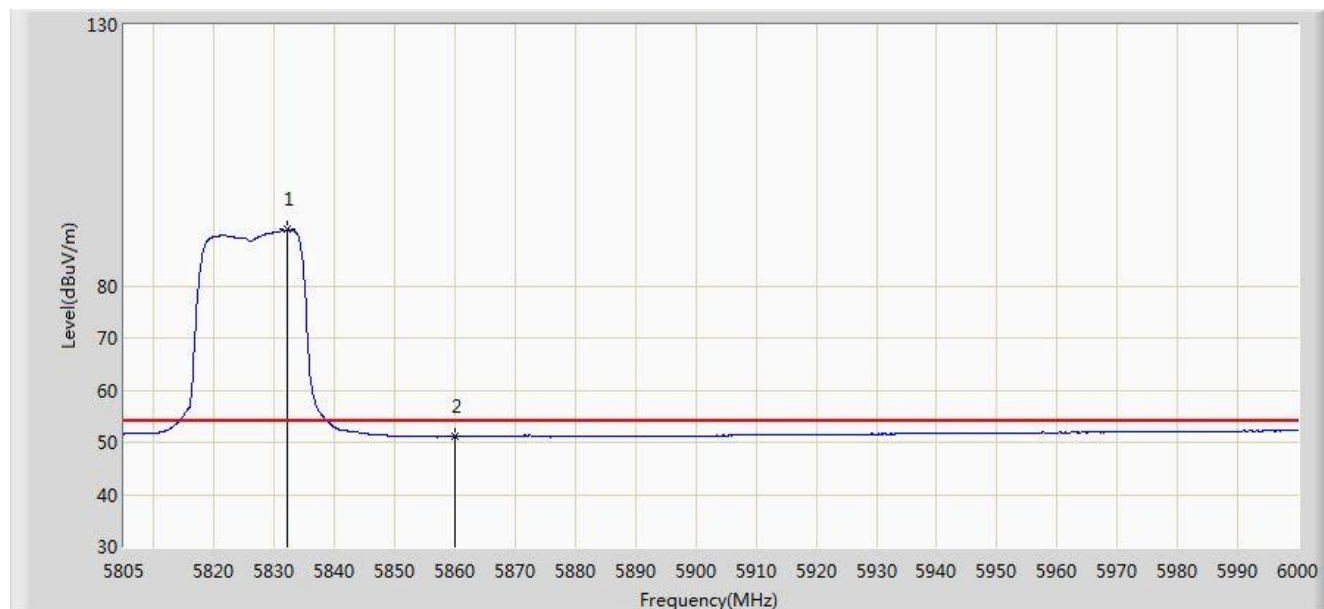


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5829.570	101.275	62.900	N/A	N/A	38.374	PK
2			5850.000	64.399	25.946	-13.801	78.200	38.454	PK
3			5850.337	66.004	27.550	-12.196	78.200	38.454	PK
4			5860.000	63.190	24.712	-10.810	74.000	38.478	PK
5			5929.507	65.764	27.229	-8.236	74.000	38.534	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 2	

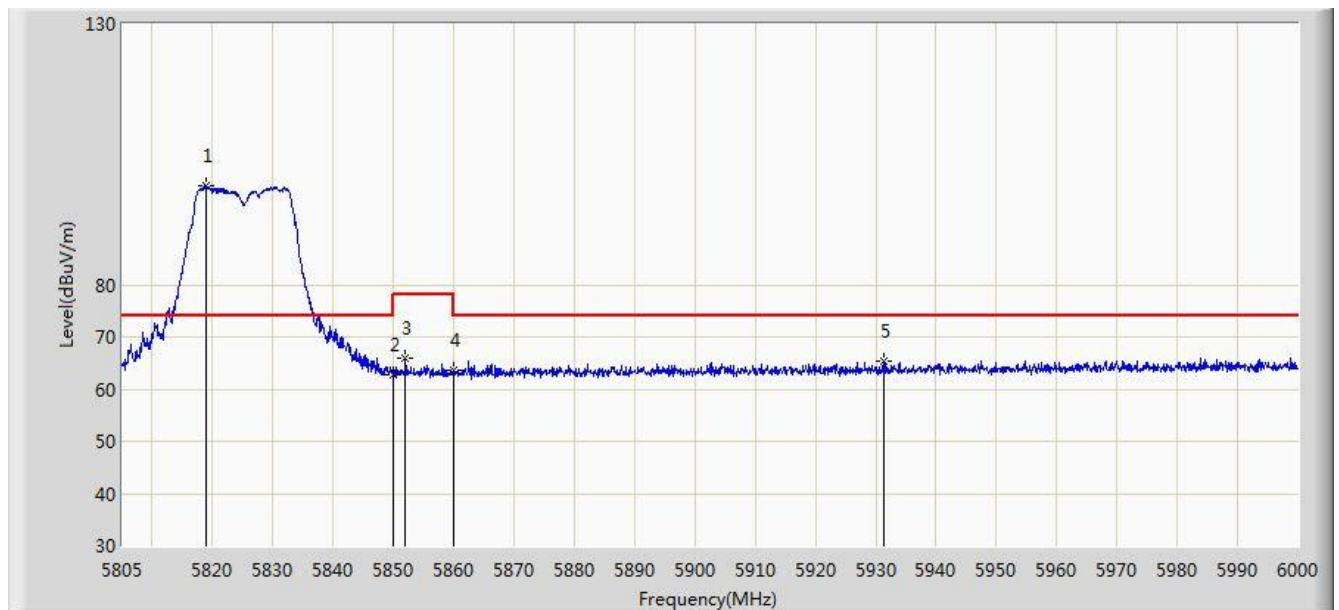


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5832.203	90.727	52.341	N/A	N/A	38.386	AV
2			5860.000	51.222	12.744	-2.778	54.000	38.478	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 2	

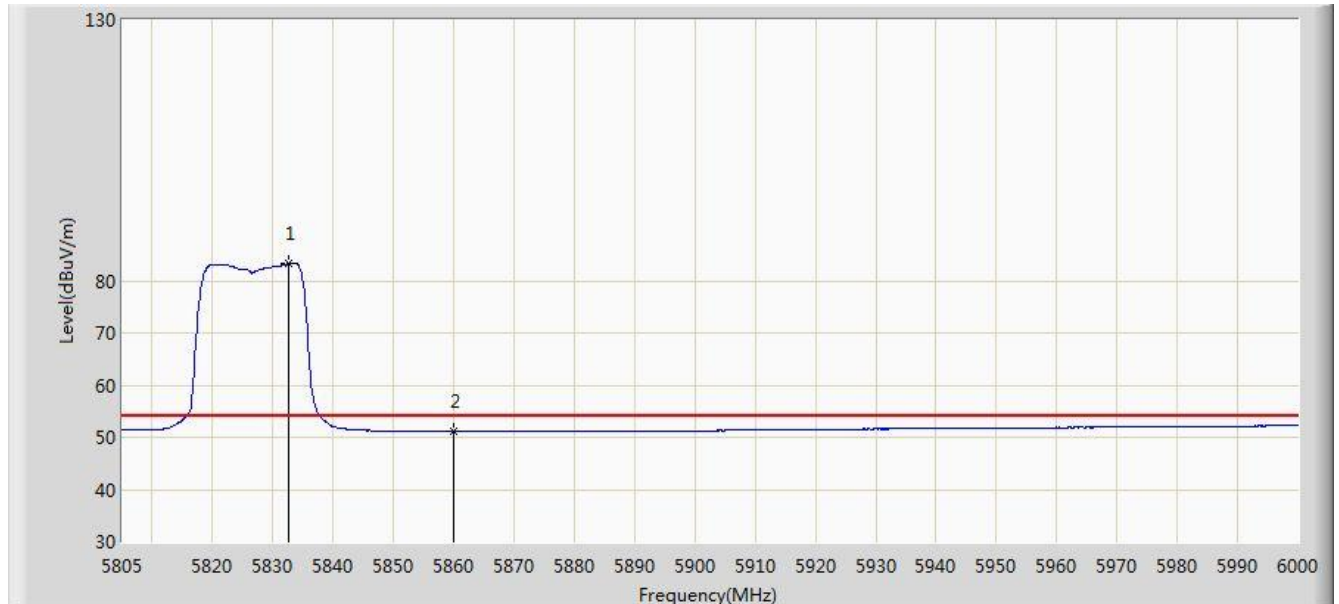


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5818.845	98.874	60.544	N/A	N/A	38.330	PK
2			5850.000	62.767	24.314	-15.433	78.200	38.454	PK
3			5851.995	65.821	27.363	-12.379	78.200	38.458	PK
4			5860.000	63.647	25.169	-10.353	74.000	38.478	PK
5			5931.360	65.367	26.835	-8.633	74.000	38.532	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11a Ant 2	

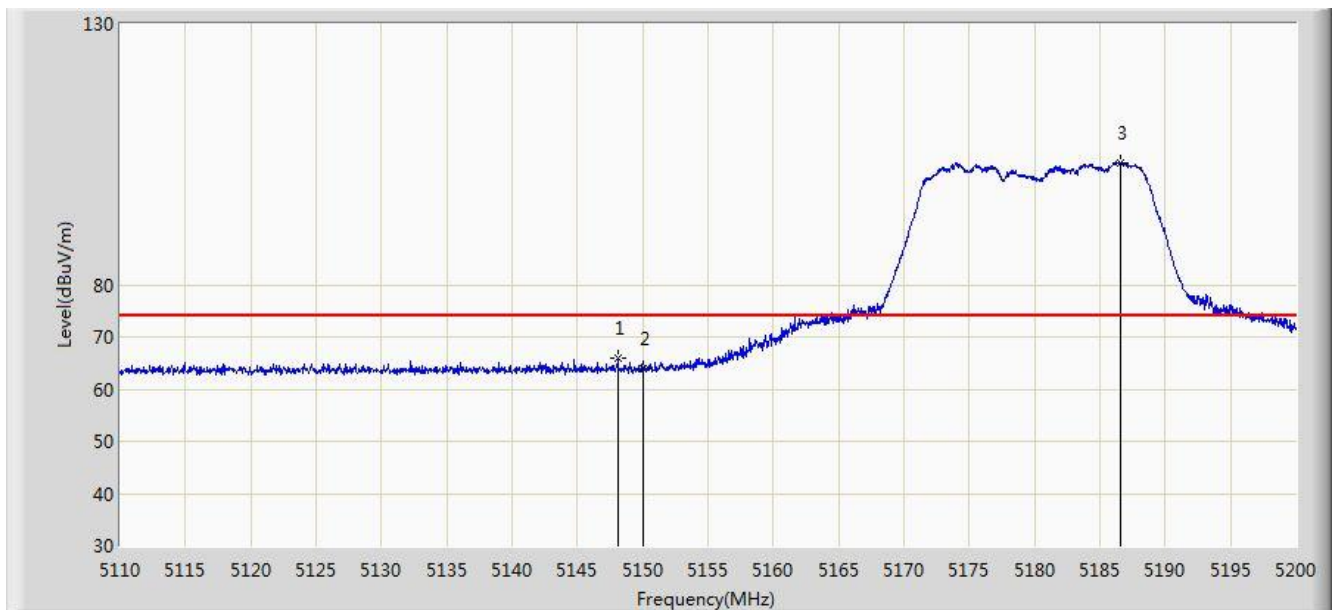


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5832.495	83.282	44.894	N/A	N/A	38.387	AV
2			5860.000	51.078	12.600	-2.922	54.000	38.478	AV

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

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

Site: AC1	Time: 2016/06/14 - 19:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11n-HT20 Ant 1 + 2	

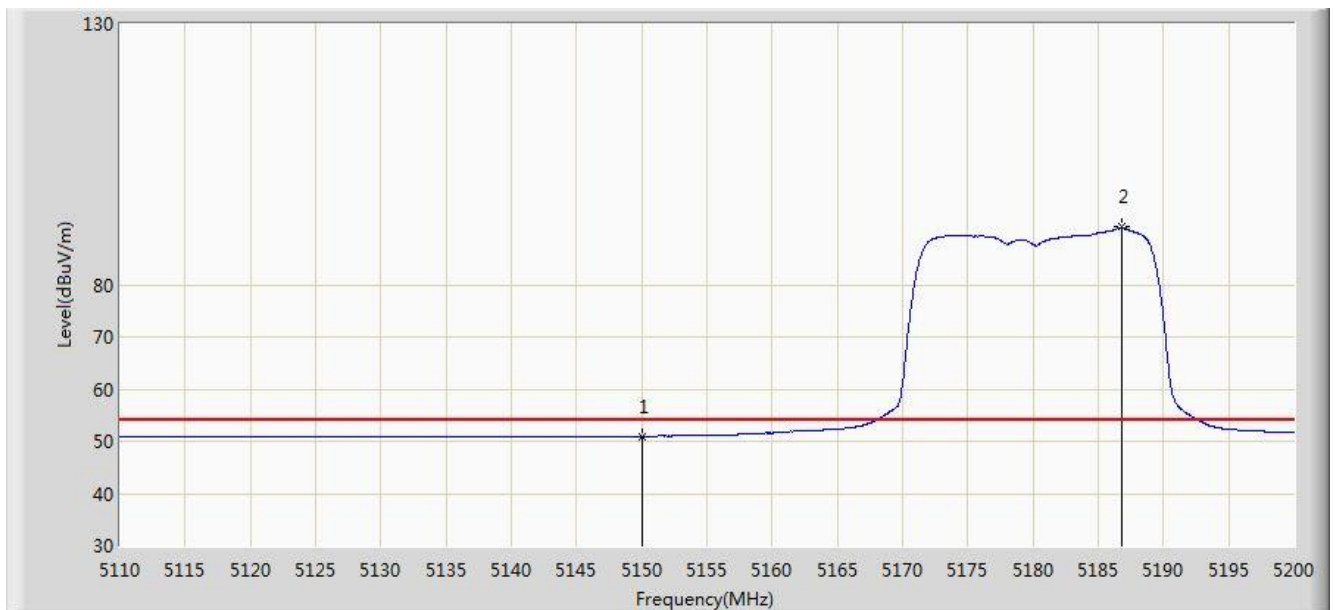


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.115	66.082	28.627	-7.918	74.000	37.455	PK
2			5150.000	63.983	26.531	-10.017	74.000	37.452	PK
3		*	5186.545	103.474	66.116	N/A	N/A	37.358	PK

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

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

Site: AC1	Time: 2016/06/14 - 19:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11n-HT20 Ant 1 + 2	

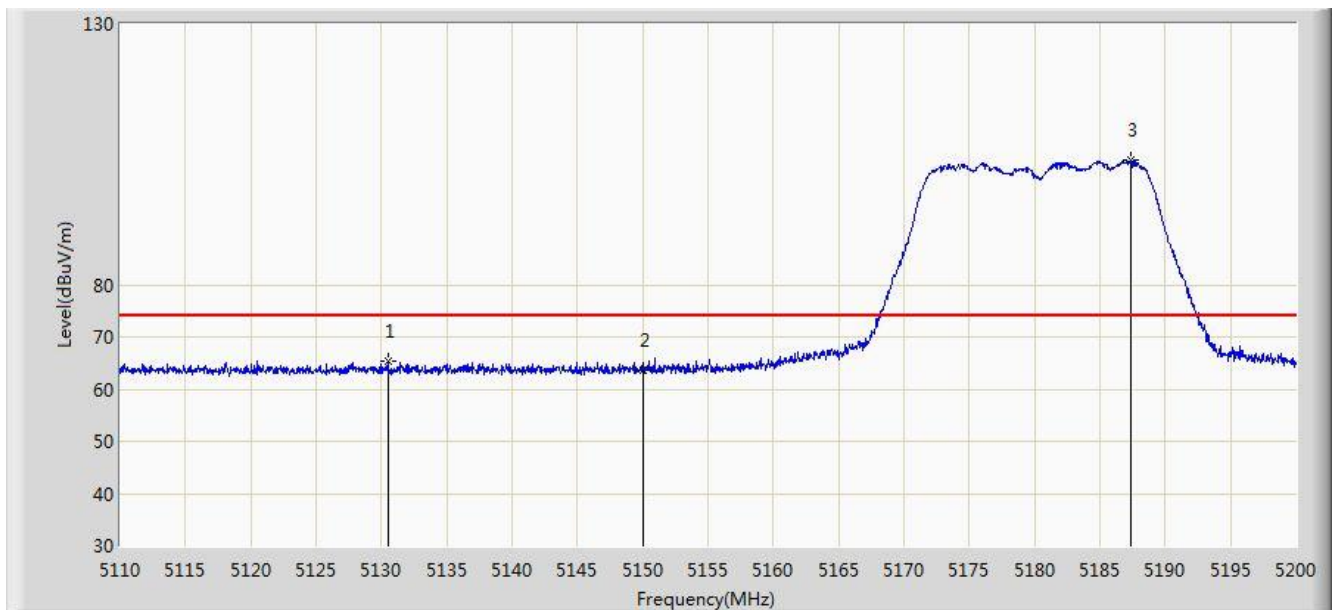


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.986	13.534	-3.014	54.000	37.452	AV
2		*	5186.815	91.022	53.665	N/A	N/A	37.357	AV

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

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

Site: AC1	Time: 2016/06/14 - 19:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11n-HT20 Ant 1 + 2	

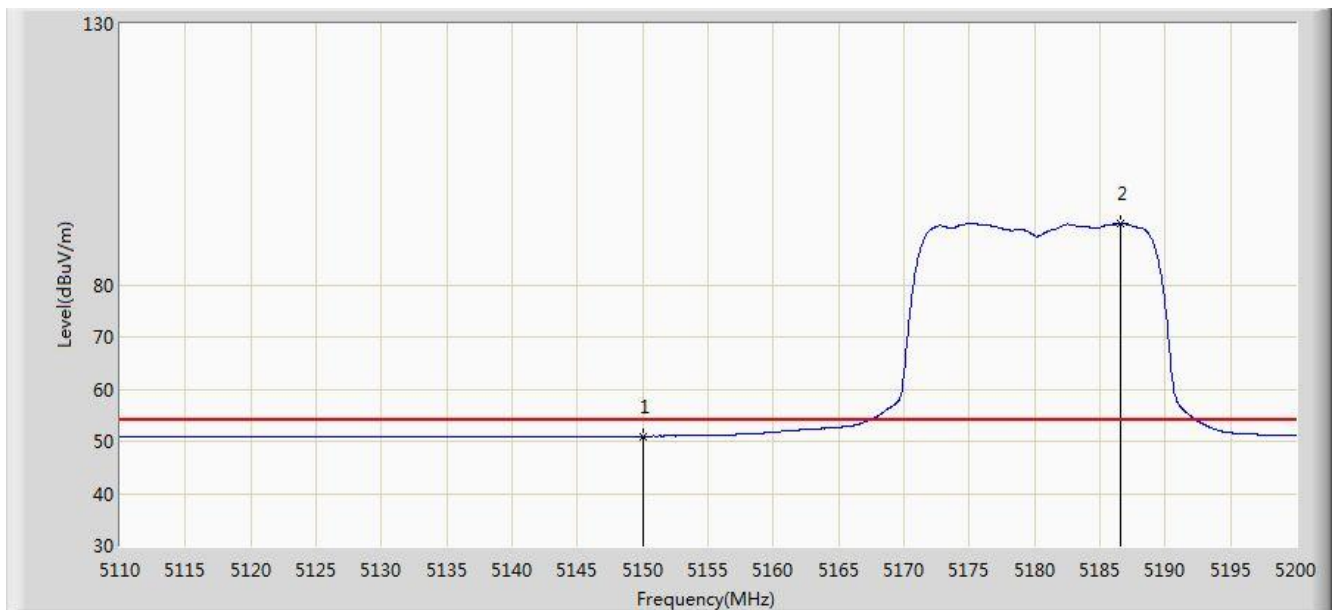


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5130.475	65.461	27.983	-8.539	74.000	37.479	PK
2			5150.000	63.561	26.109	-10.439	74.000	37.452	PK
3		*	5187.355	103.773	66.418	N/A	N/A	37.356	PK

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

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

Site: AC1	Time: 2016/06/14 - 19:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5180MHz by 802.11n-HT20 Ant 1 + 2	

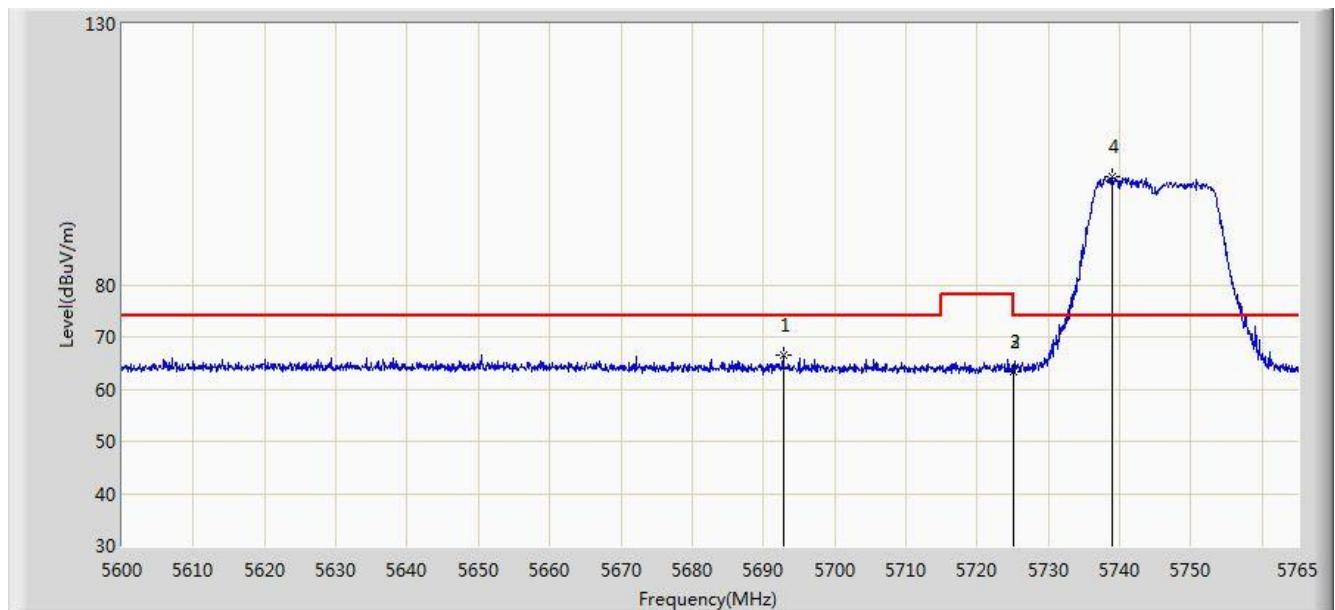


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.941	13.489	-3.059	54.000	37.452	AV
2		*	5186.545	91.650	54.292	N/A	N/A	37.358	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11n-HT20 Ant 1 + 2	

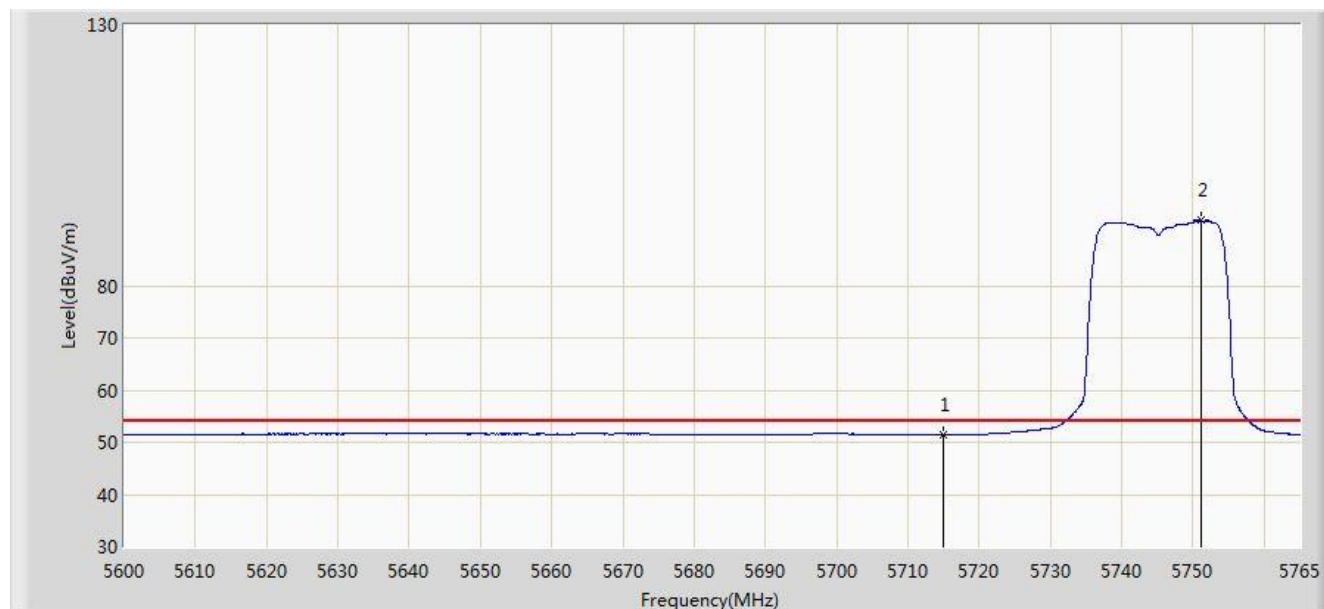


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5692.812	66.458	28.584	-7.542	74.000	37.874	PK
2			5725.000	63.393	25.403	-14.807	78.200	37.990	PK
3			5725.000	63.393	25.403	-14.807	78.200	37.990	PK
4		*	5738.848	100.647	62.600	N/A	N/A	38.047	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11n-HT20 Ant 1 + 2	

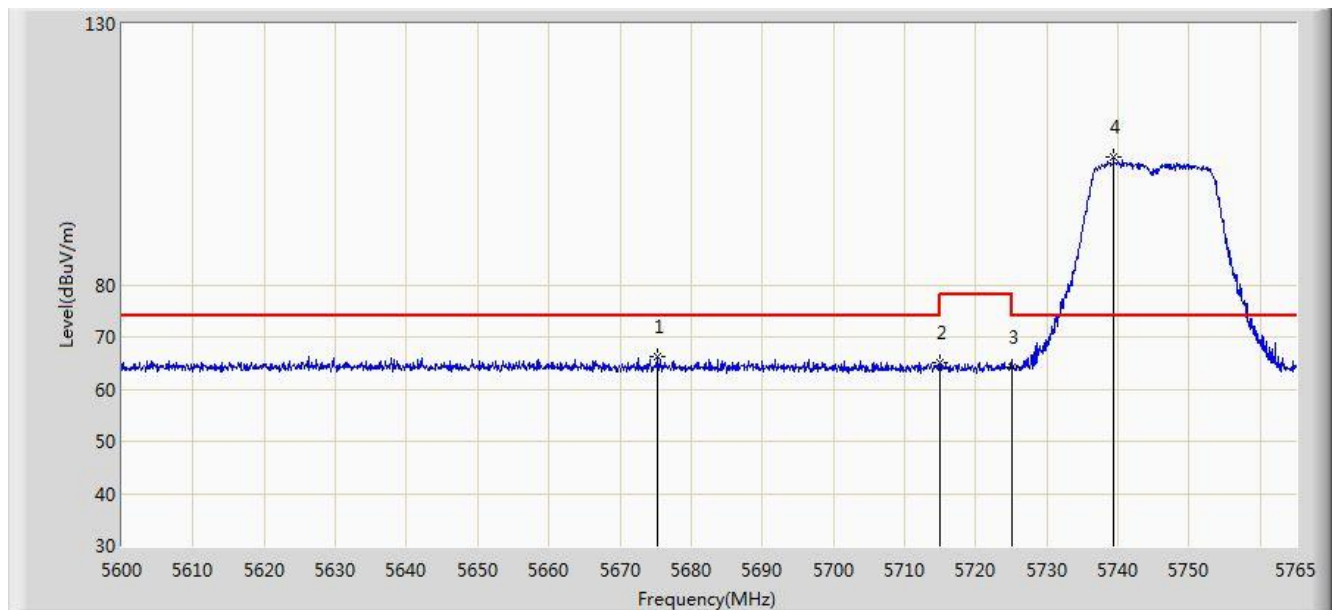


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.389	13.440	-2.611	54.000	37.949	AV
2		*	5751.058	92.469	54.368	N/A	N/A	38.101	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11n-HT20 Ant 1 + 2	

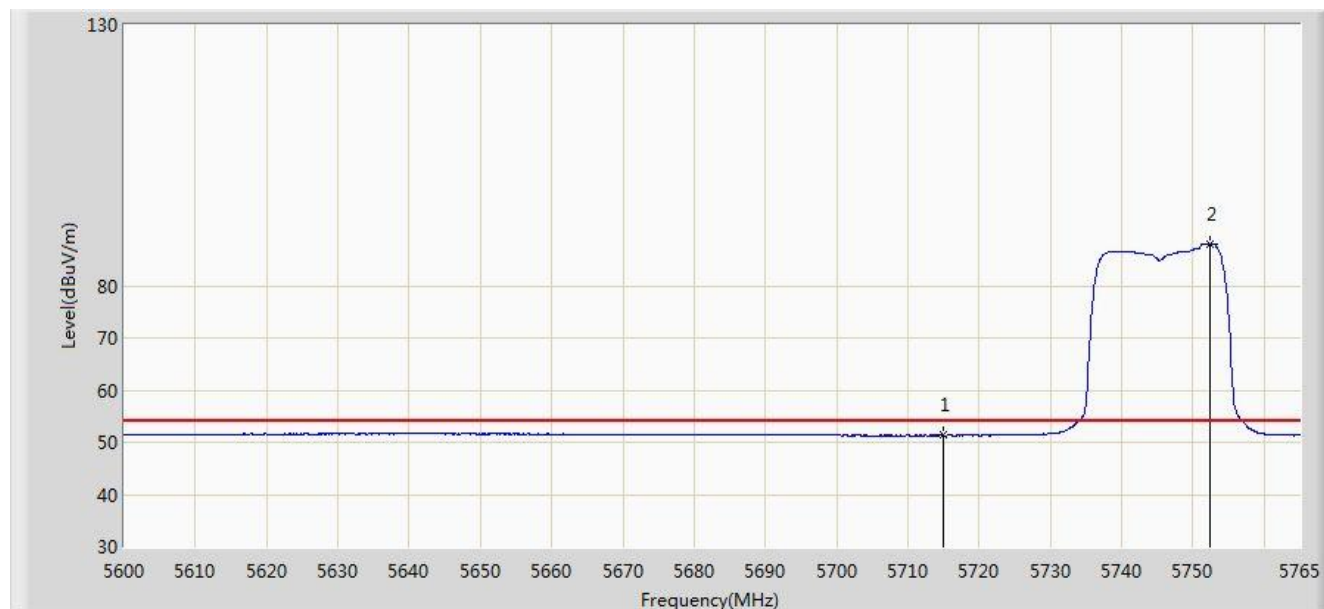


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5675.240	66.141	28.324	-7.859	74.000	37.816	PK
2			5715.000	64.963	27.014	-9.037	74.000	37.949	PK
3			5725.000	64.269	26.279	-13.931	78.200	37.990	PK
4		*	5739.342	104.356	66.307	N/A	N/A	38.049	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5745MHz by 802.11n-HT20 Ant 1 + 2	

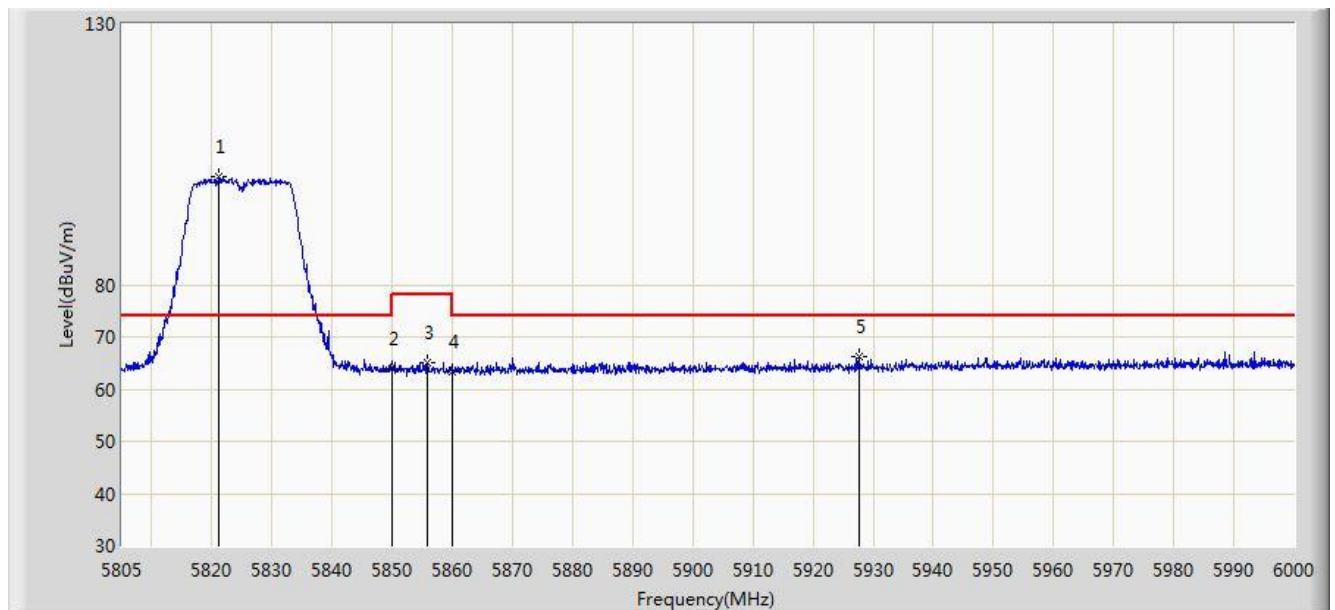


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.319	13.370	-2.681	54.000	37.949	AV
2		*	5752.377	88.032	49.925	N/A	N/A	38.108	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11n-HT20 Ant 1 + 2	

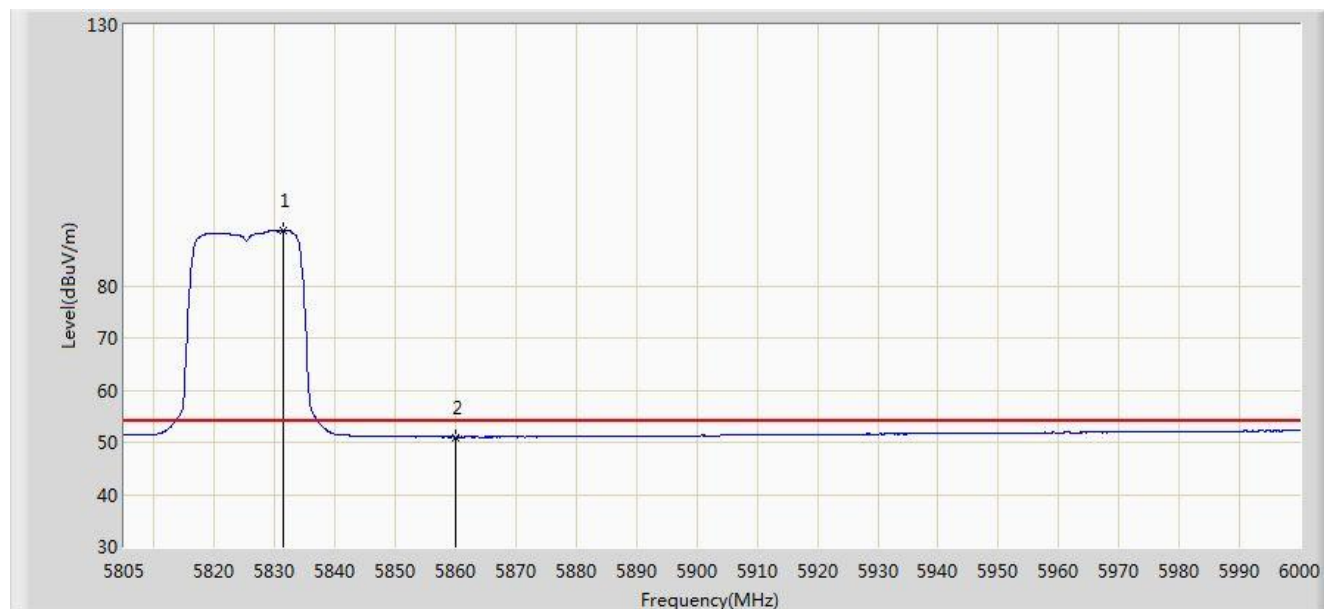


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5821.185	100.667	62.327	N/A	N/A	38.340	PK
2			5850.000	63.849	25.396	-14.351	78.200	38.454	PK
3			5855.895	64.965	26.497	-13.235	78.200	38.468	PK
4			5860.000	63.344	24.866	-10.656	74.000	38.478	PK
5			5927.558	66.352	27.818	-7.648	74.000	38.534	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11n-HT20 Ant 1 + 2	

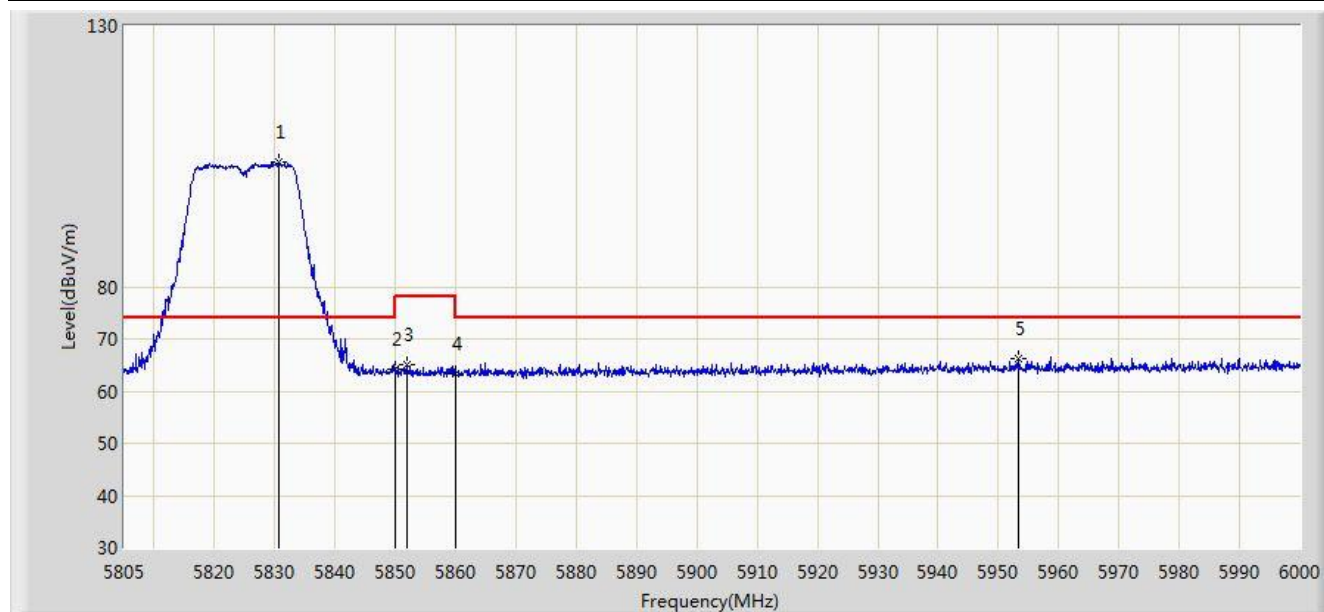


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5831.325	90.591	52.209	N/A	N/A	38.382	AV
2			5860.000	50.990	12.512	-3.010	54.000	38.478	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11n-HT20 Ant 1 + 2	

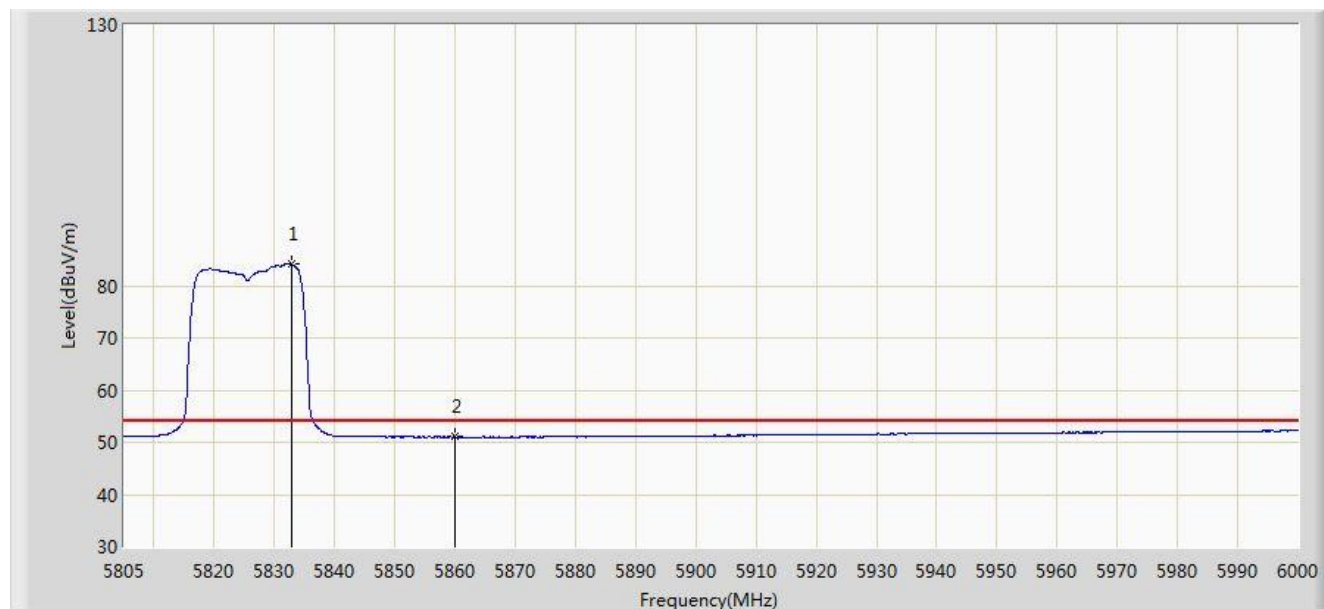


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5830.643	103.877	65.497	N/A	N/A	38.379	PK
2			5850.000	64.061	25.608	-14.139	78.200	38.454	PK
3			5851.800	64.974	26.516	-13.226	78.200	38.458	PK
4			5860.000	63.441	24.963	-10.559	74.000	38.478	PK
5			5953.297	66.239	27.734	-7.761	74.000	38.505	PK

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

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

Site: AC1	Time: 2016/07/01 - 19:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5825MHz by 802.11n-HT20 Ant 1 + 2	

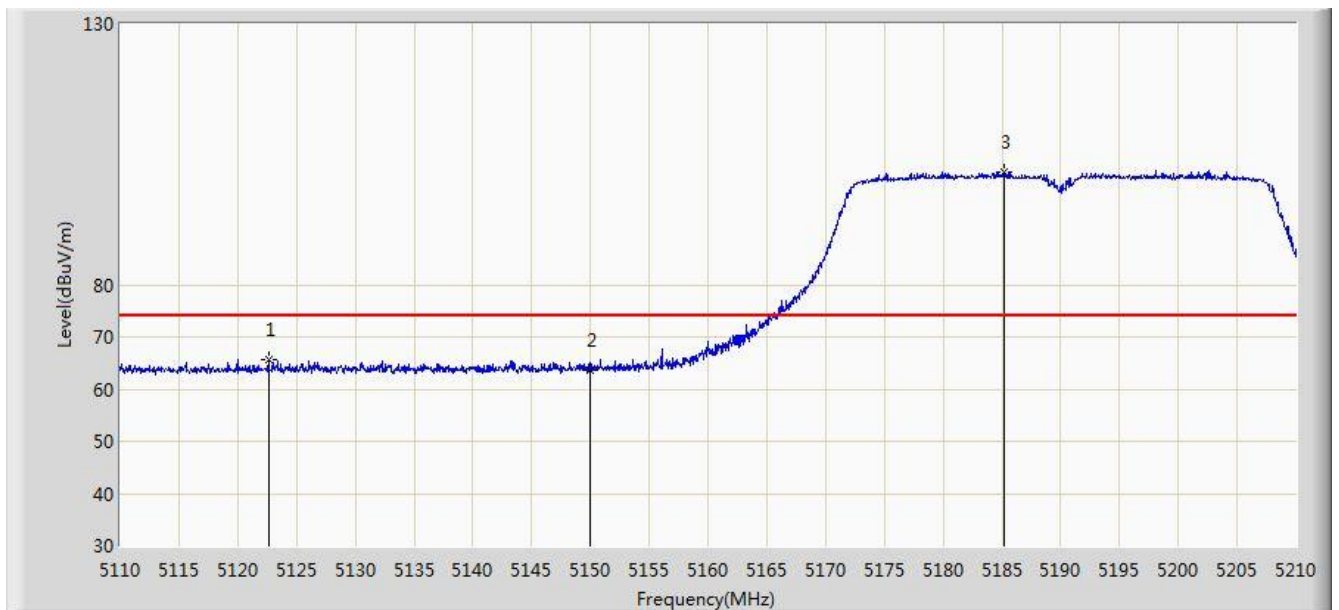


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5832.788	84.097	45.708	N/A	N/A	38.389	AV
2			5860.000	51.035	12.557	-2.965	54.000	38.478	AV

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

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

Site: AC1	Time: 2016/06/16 - 14:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5190MHz by 802.11n-HT40 Ant 1 + 2	

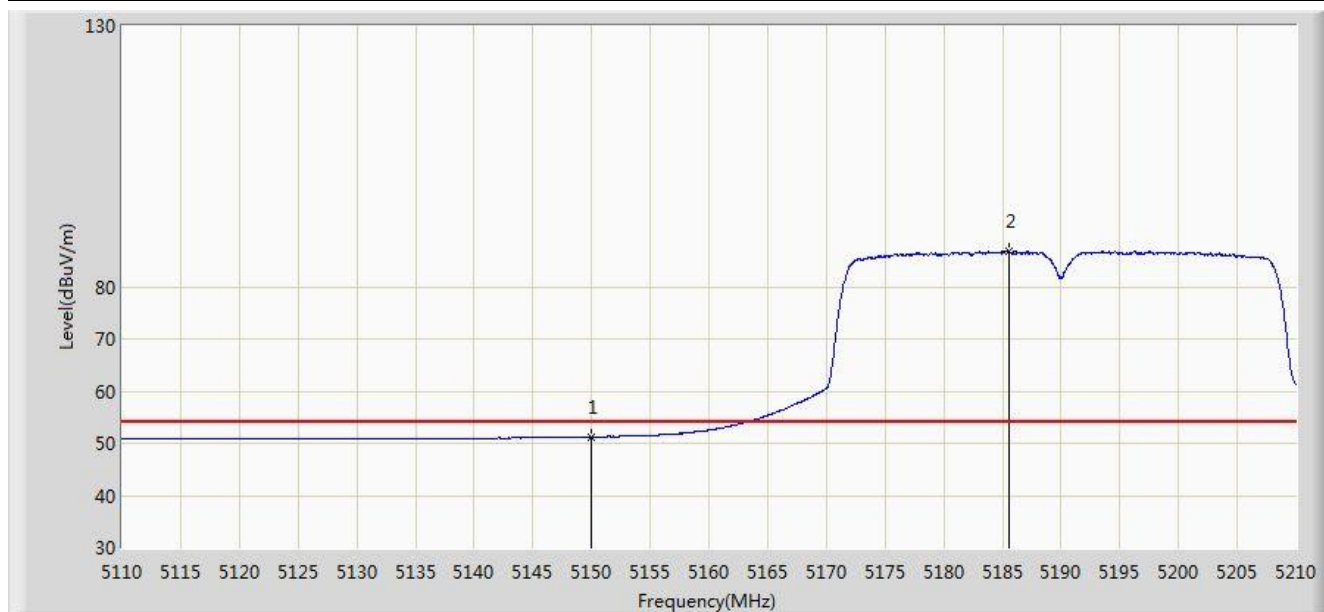


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5122.600	65.610	28.132	-8.390	74.000	37.478	PK
2			5150.000	63.765	26.313	-10.235	74.000	37.452	PK
3		*	5185.250	101.617	64.256	N/A	N/A	37.361	PK

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

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

Site: AC1	Time: 2016/06/17 - 17:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5190MHz by 802.11n-HT40 Ant 1 + 2	

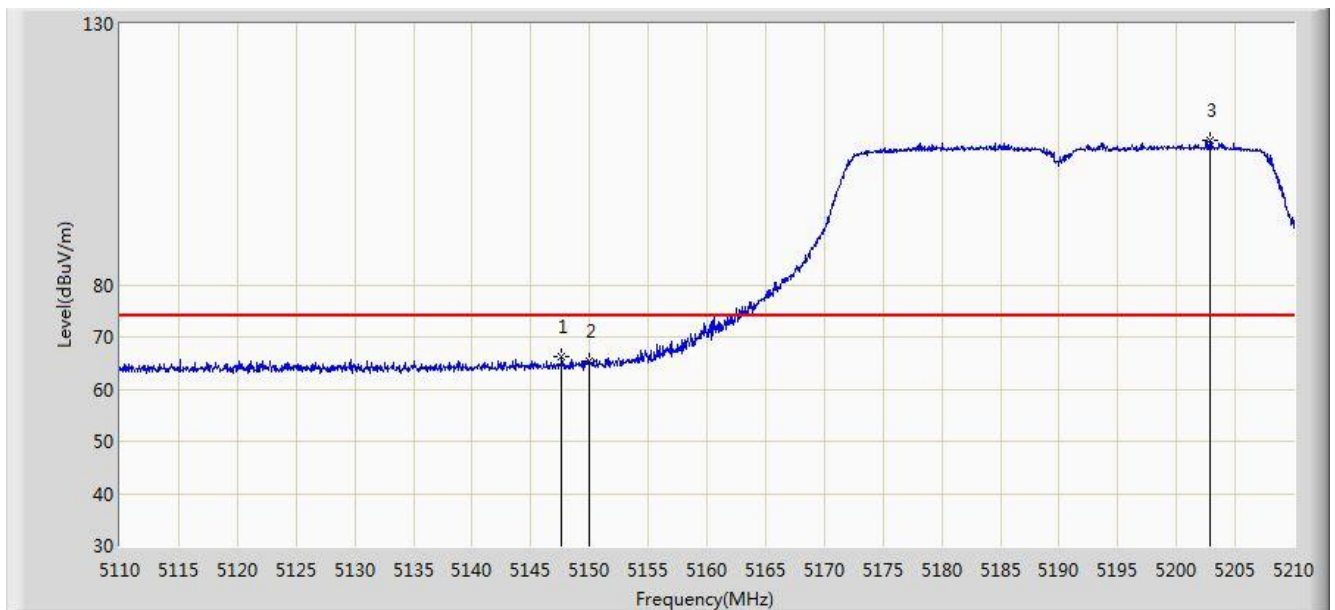


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.238	13.786	-2.762	54.000	37.452	AV
2		*	5185.550	86.754	49.394	N/A	N/A	37.360	AV

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

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

Site: AC1	Time: 2016/06/17 - 17:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5190MHz by 802.11n-HT40 Ant 1 + 2	

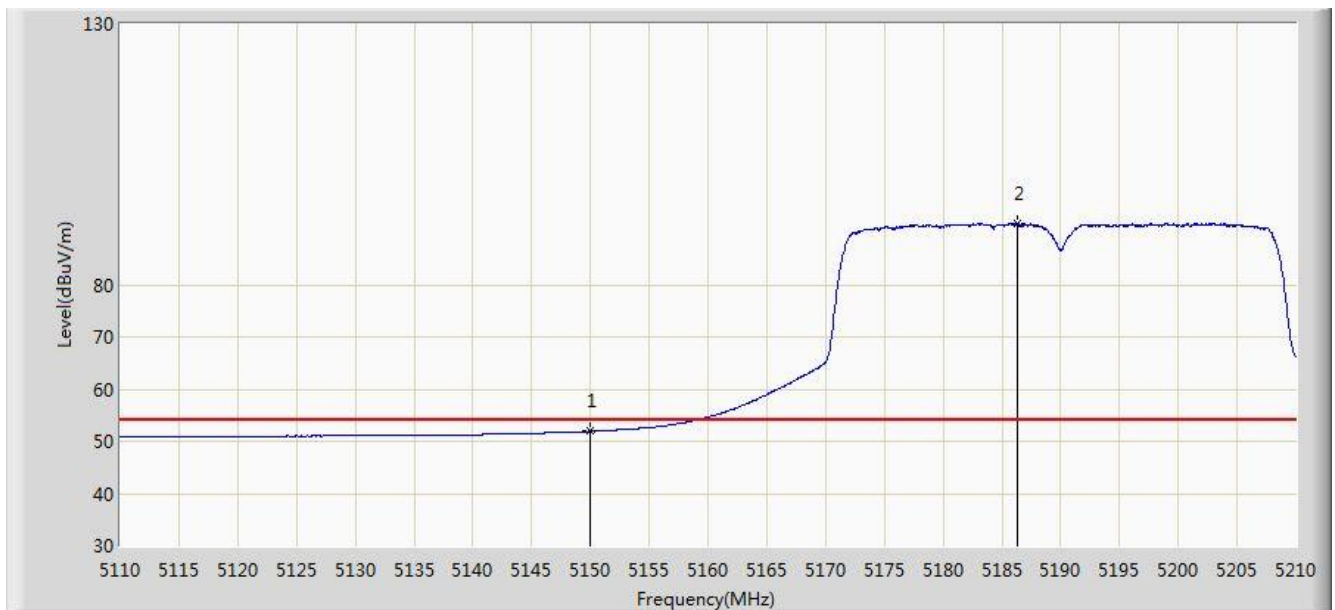


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.650	66.123	28.668	-7.877	74.000	37.455	PK
2			5150.000	65.284	27.832	-8.716	74.000	37.452	PK
3		*	5202.850	107.606	70.292	N/A	N/A	37.314	PK

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

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

Site: AC1	Time: 2016/06/17 - 17:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5190MHz by 802.11n-HT40 Ant 1 + 2	

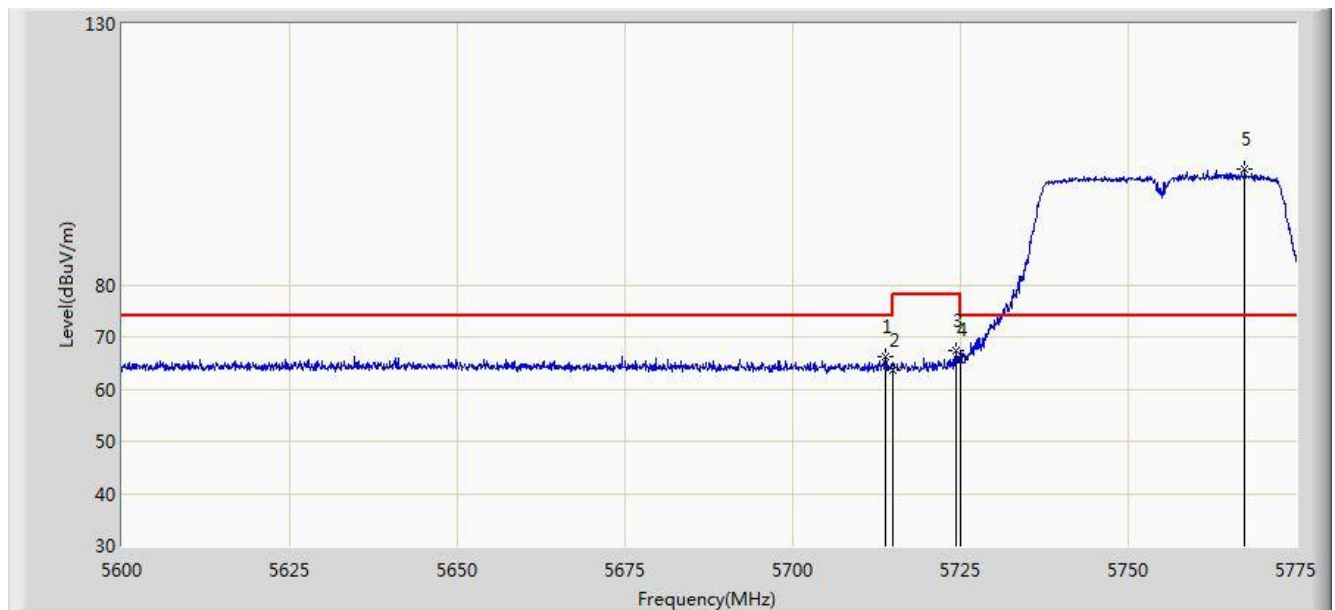


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.922	14.470	-2.078	54.000	37.452	AV
2		*	5186.300	91.670	54.312	N/A	N/A	37.358	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5755MHz by 802.11n-HT40 Ant 1 + 2	

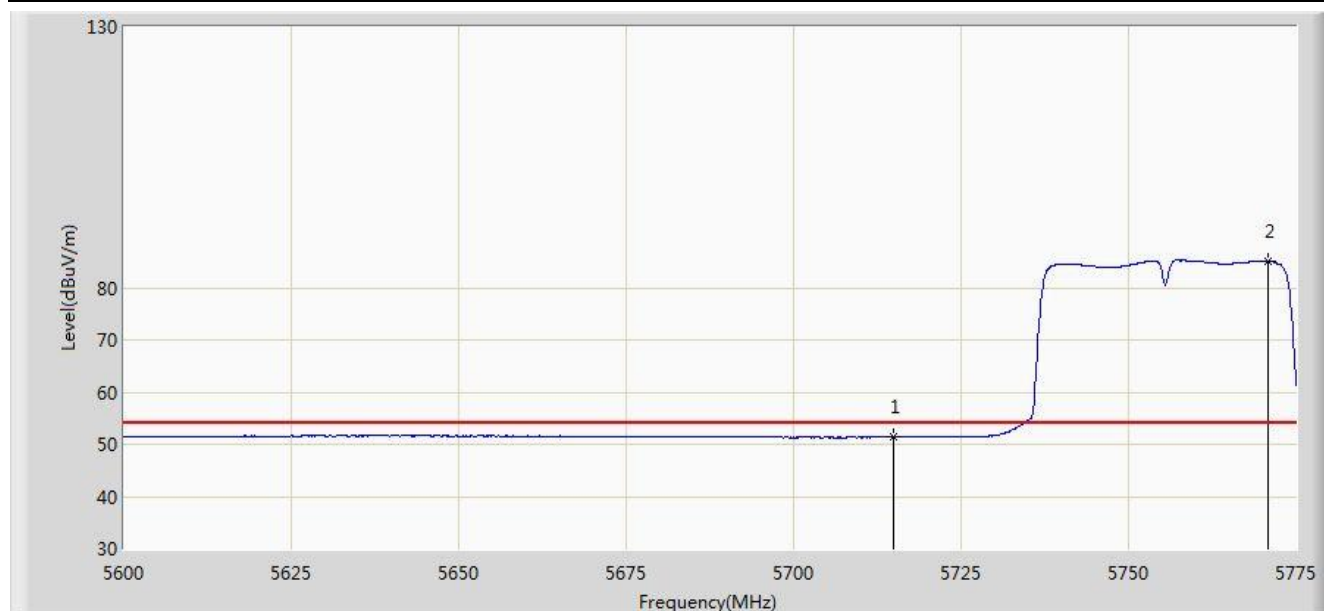


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5713.750	66.229	28.285	-7.771	74.000	37.944	PK
2			5715.000	63.763	25.814	-10.237	74.000	37.949	PK
3			5724.250	67.432	29.445	-10.768	78.200	37.987	PK
4			5725.000	65.654	27.664	-12.546	78.200	37.990	PK
5		*	5767.388	102.292	64.133	N/A	N/A	38.160	PK

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

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

Site: AC1	Time: 2016/07/01 - 20:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5795MHz by 802.11n-HT40 Ant 1 + 2	

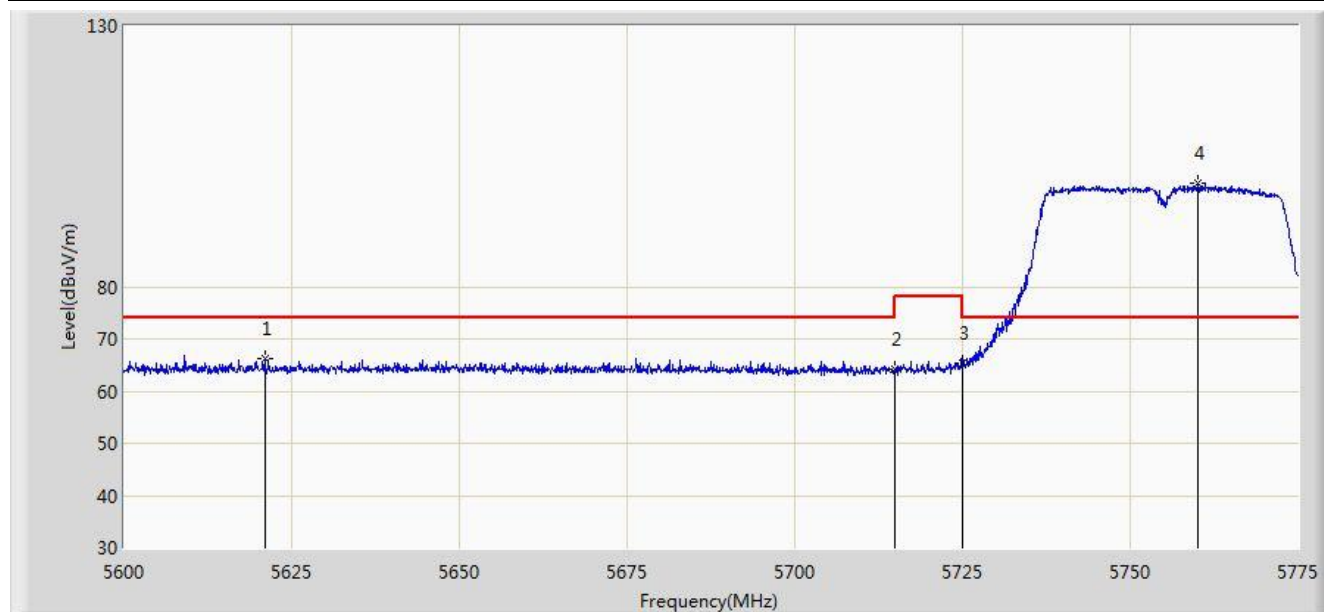


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.362	13.413	-2.638	54.000	37.949	AV
2		*	5770.800	85.146	46.978	N/A	N/A	38.168	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5755MHz by 802.11n-HT40 Ant 1 + 2	

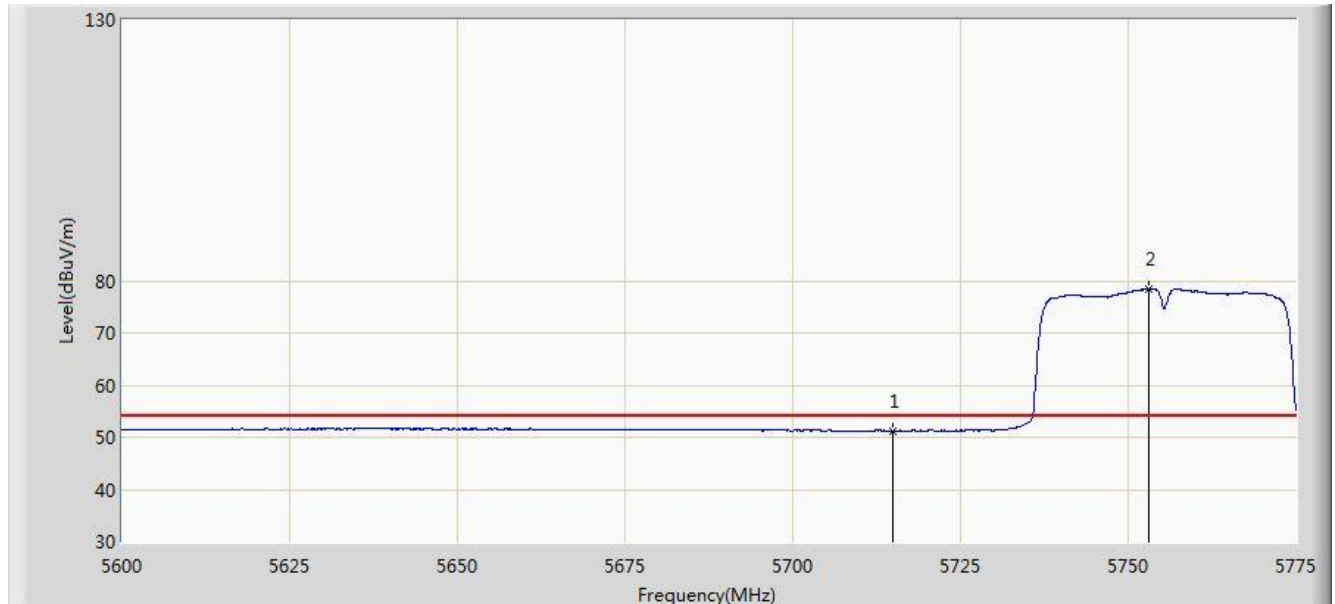


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5621.000	66.202	28.466	-7.798	74.000	37.737	PK
2			5715.000	64.172	26.223	-9.828	74.000	37.949	PK
3			5725.000	65.431	27.441	-12.769	78.200	37.990	PK
4		*	5760.125	99.835	61.694	N/A	N/A	38.141	PK

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

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

Site: AC1	Time: 2016/07/01 - 20:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5795MHz by 802.11n-HT40 Ant 1 + 2	

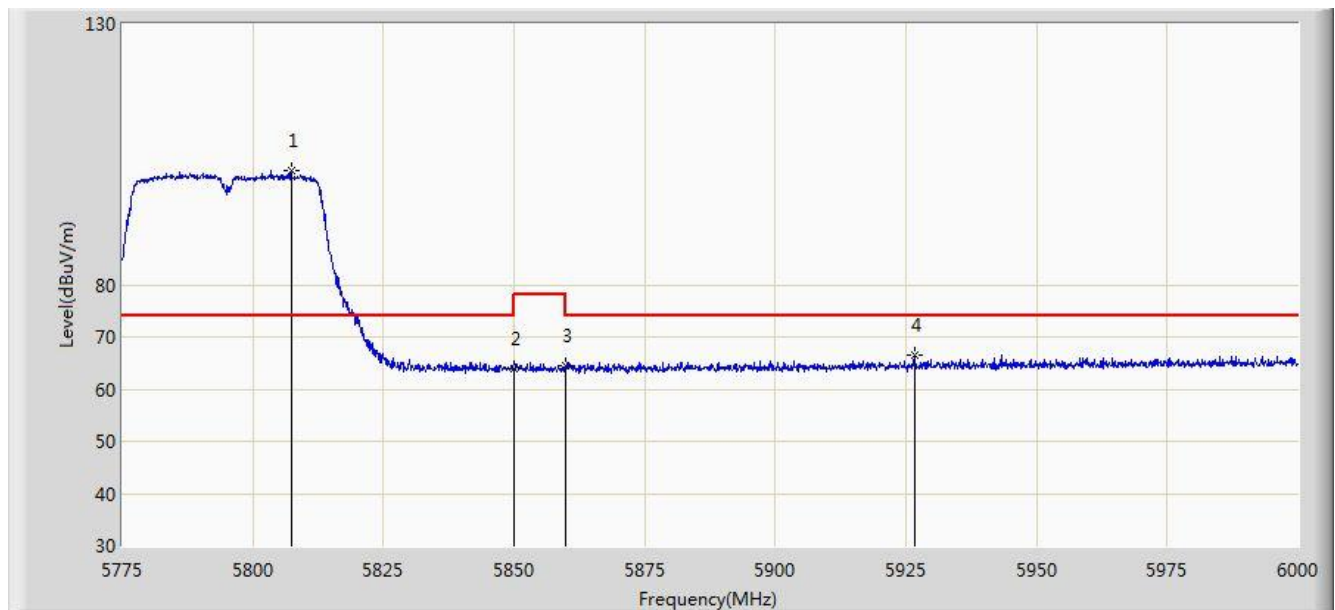


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.240	13.291	-2.760	54.000	37.949	AV
2		*	5753.125	78.497	40.386	N/A	N/A	38.111	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5795MHz by 802.11n-HT40 Ant 1 + 2	

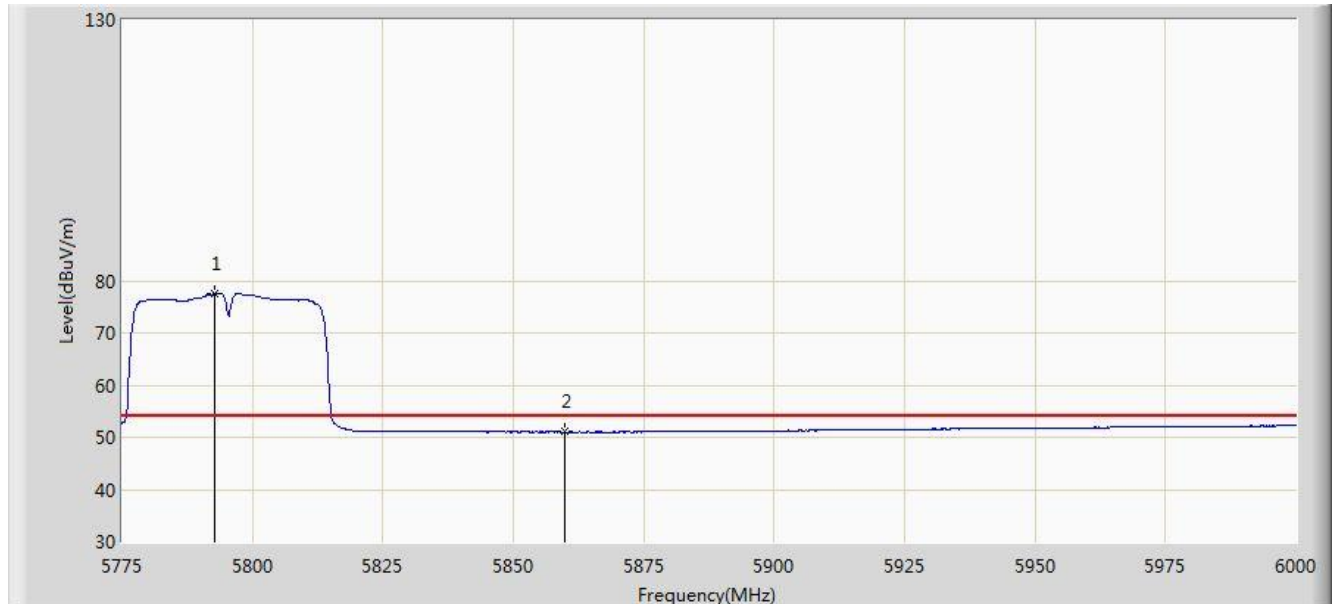


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5807.288	101.996	63.710	N/A	N/A	38.285	PK
2			5850.000	63.816	25.363	-14.384	78.200	38.454	PK
3			5860.000	64.531	26.053	-9.469	74.000	38.478	PK
4			5926.650	66.622	28.089	-7.378	74.000	38.533	PK

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

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

Site: AC1	Time: 2016/07/01 - 20:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5795MHz by 802.11n-HT40 Ant 1 + 2	

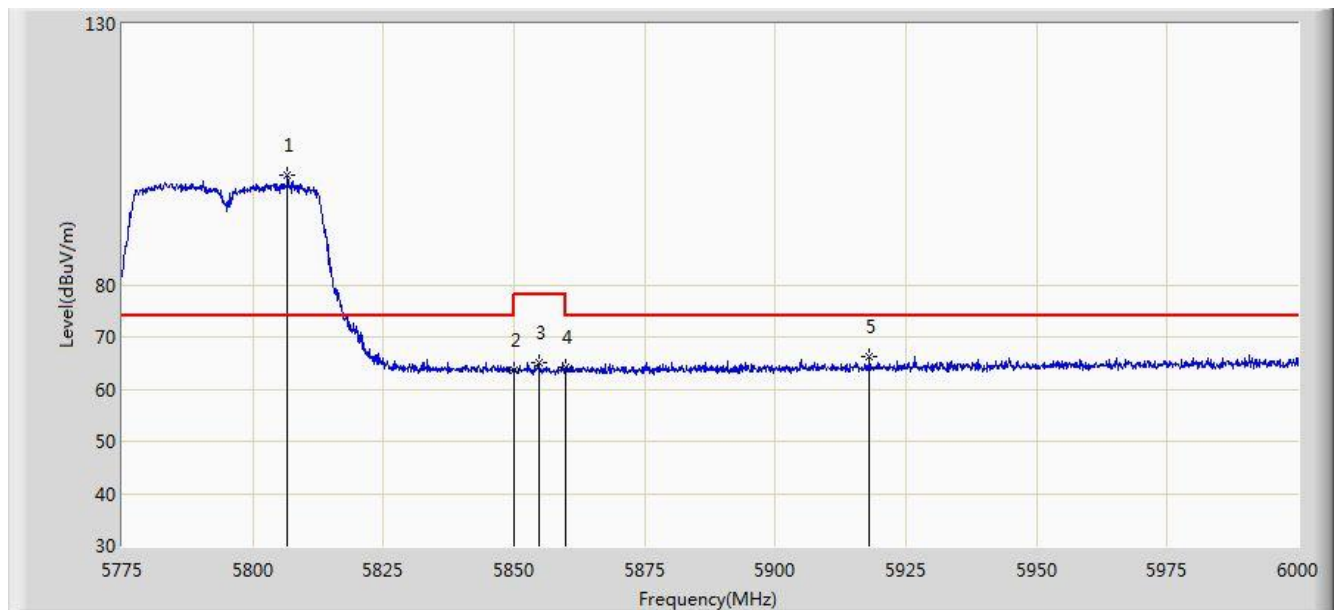


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5792.775	77.484	39.243	N/A	N/A	38.241	AV
2			5860.000	51.015	12.537	-2.985	54.000	38.478	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5795MHz by 802.11n-HT40 Ant 1 + 2	

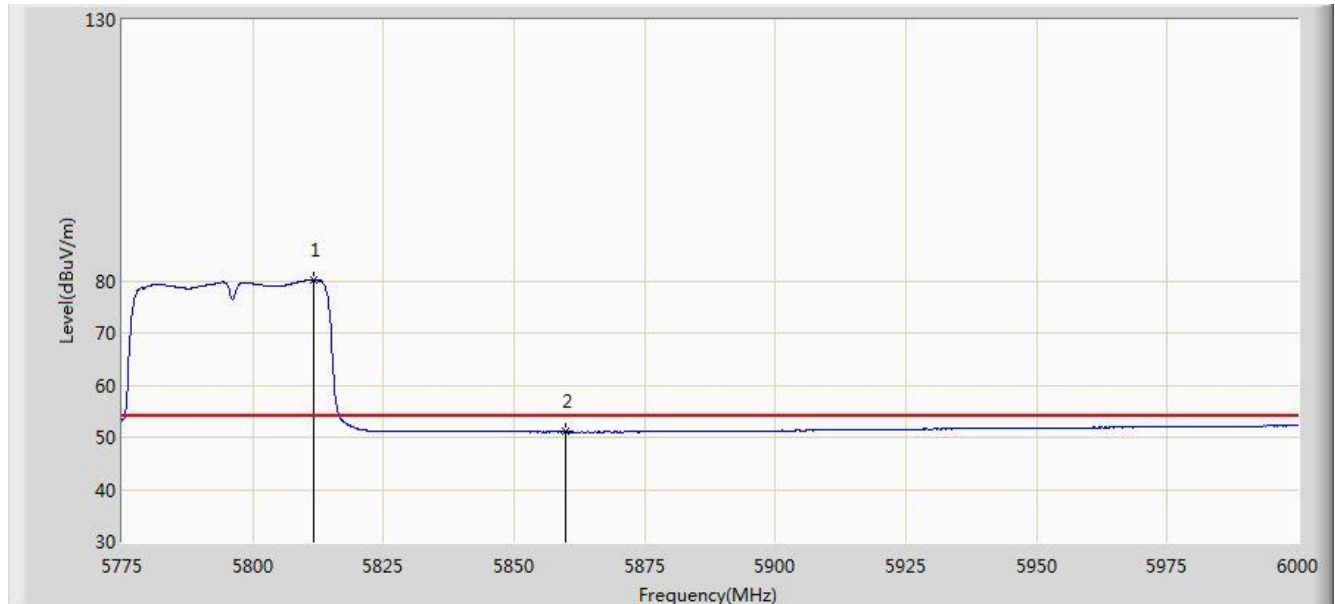


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5806.612	101.013	62.729	N/A	N/A	38.284	PK
2			5850.000	63.614	25.161	-14.586	78.200	38.454	PK
3			5854.763	65.050	26.585	-13.150	78.200	38.465	PK
4			5860.000	64.166	25.688	-9.834	74.000	38.478	PK
5			5917.987	66.194	27.664	-7.806	74.000	38.530	PK

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

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

Site: AC1	Time: 2016/07/01 - 20:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5795MHz by 802.11n-HT40 Ant 1 + 2	

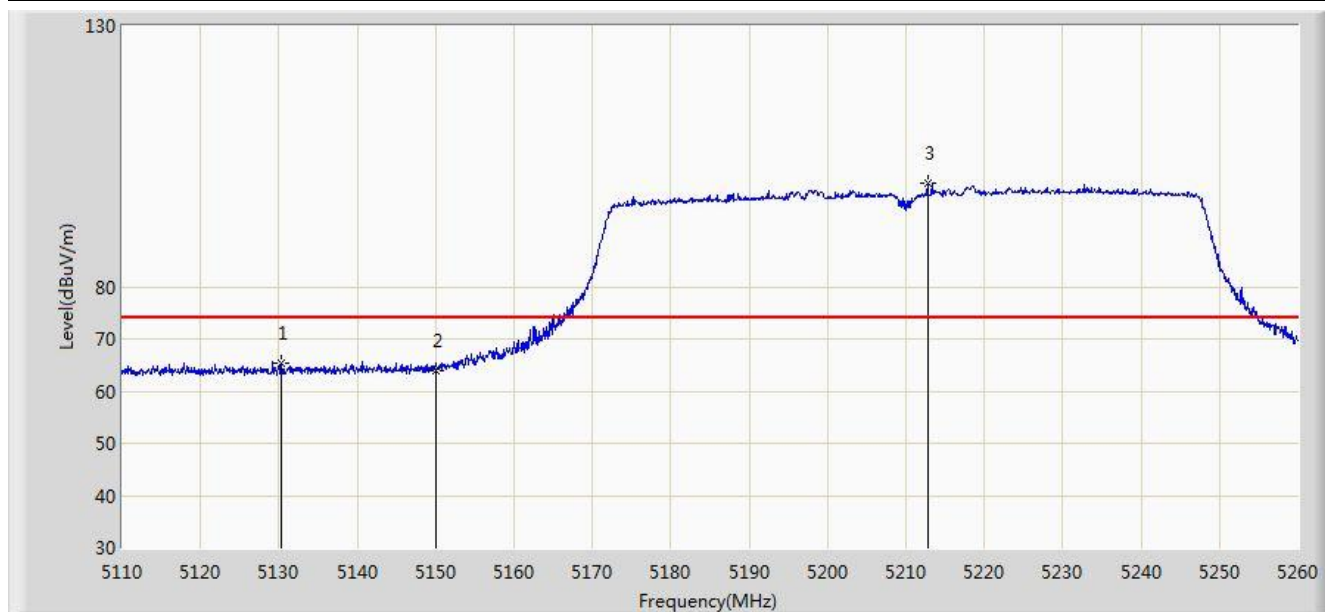


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5811.675	80.174	41.874	N/A	N/A	38.301	AV
2			5860.000	51.022	12.544	-2.978	54.000	38.478	AV

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

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

Site: AC1	Time: 2016/06/17 - 17:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5210MHz by 802.11ac-VHT80 Ant 1 + 2	

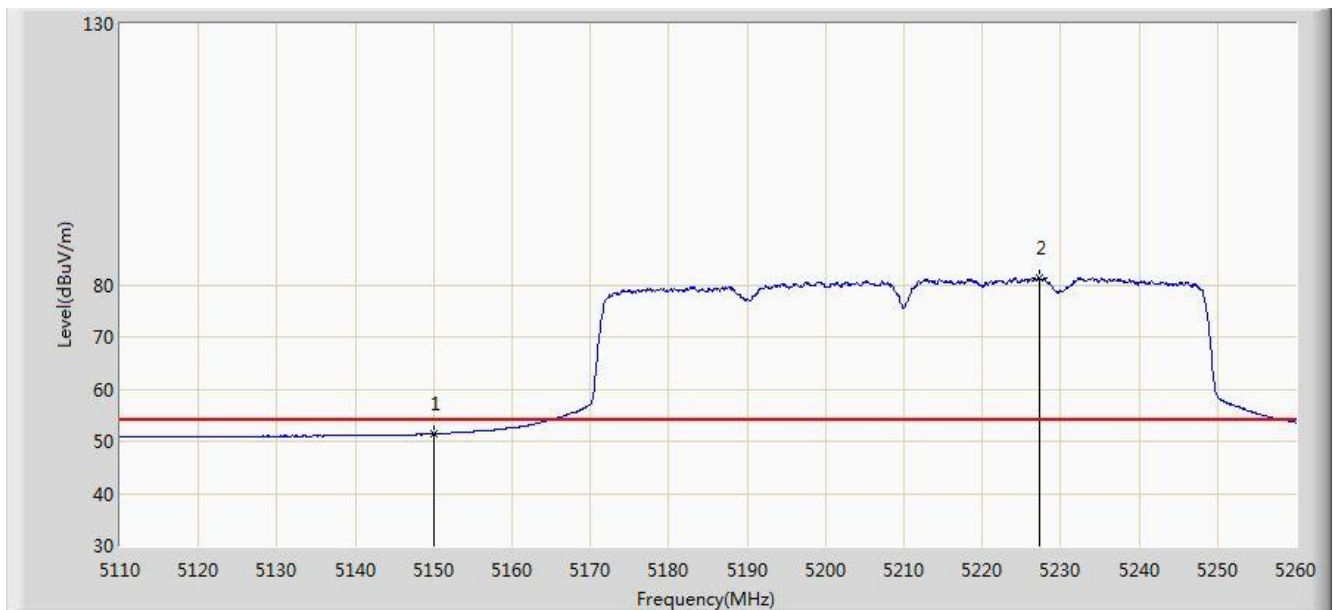


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5130.250	65.361	27.883	-8.639	74.000	37.478	PK
2			5150.000	64.000	26.548	-10.000	74.000	37.452	PK
3		*	5212.750	99.742	62.461	N/A	N/A	37.282	PK

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

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

Site: AC1	Time: 2016/06/17 - 17:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5210MHz by 802.11ac-VHT80 Ant 1 + 2	

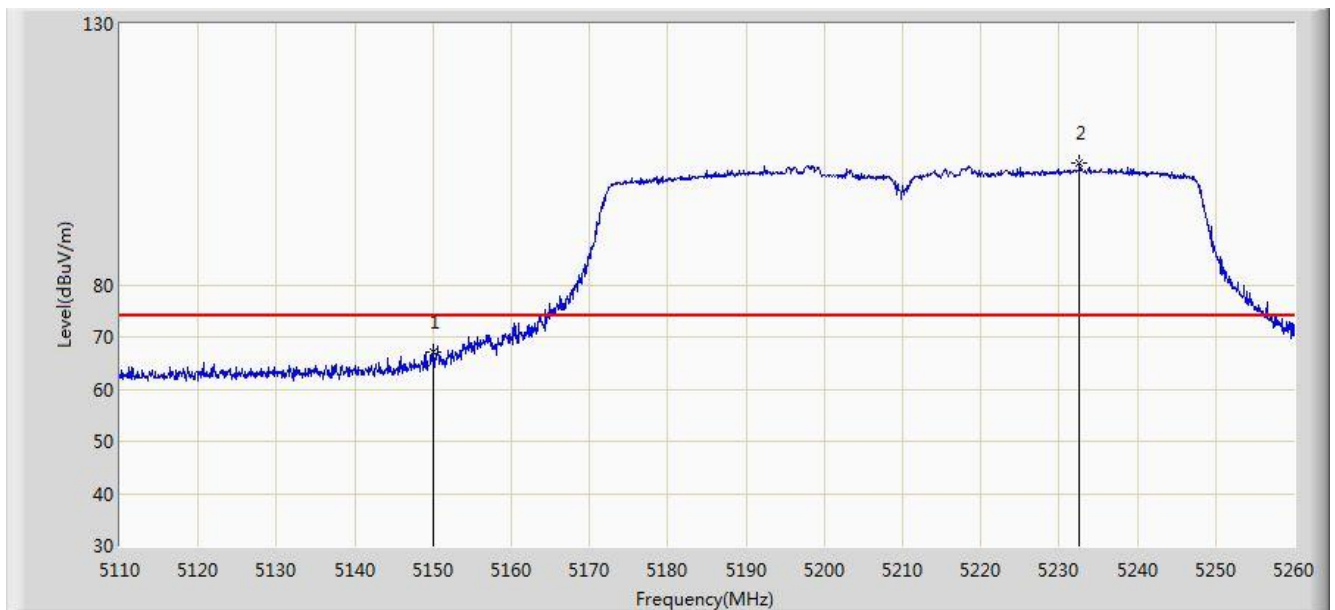


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.389	13.937	-2.611	54.000	37.452	AV
2		*	5227.300	81.403	44.157	N/A	N/A	37.246	AV

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

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

Site: AC1	Time: 2016/06/17 - 18:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5210MHz by 802.11ac-VHT80 Ant 1 + 2	

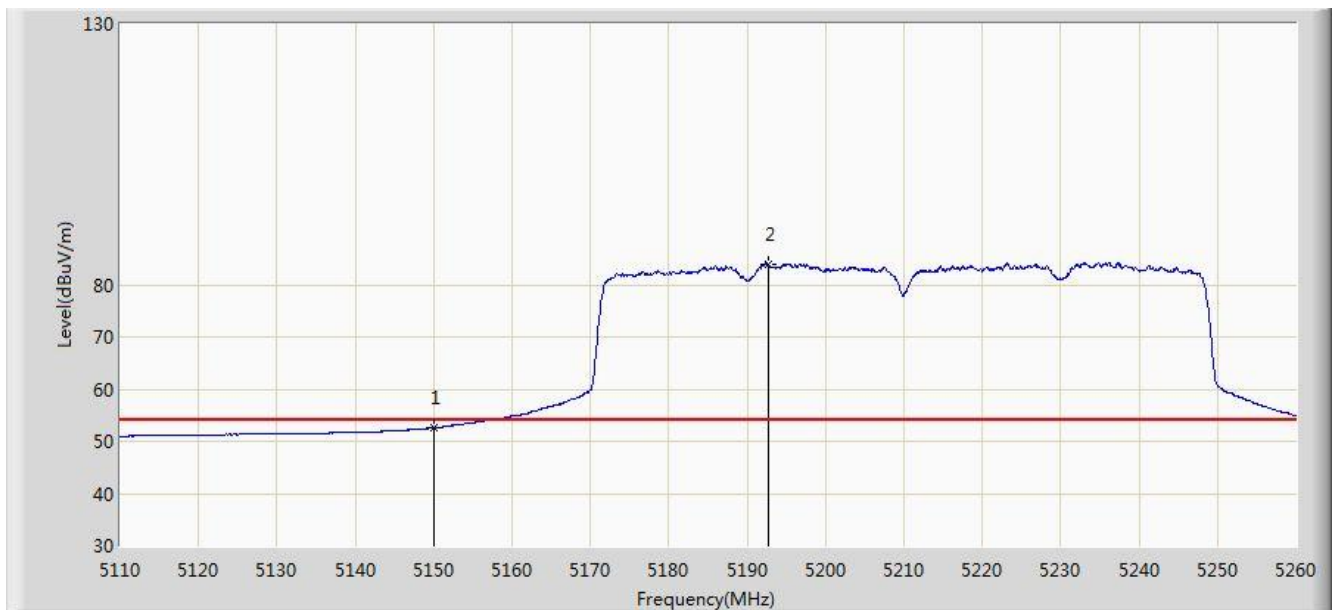


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	67.030	29.578	-6.970	74.000	37.452	PK
2		*	5232.625	103.369	66.134	N/A	N/A	37.235	PK

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

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

Site: AC1	Time: 2016/06/17 - 18:06
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5210MHz by 802.11ac-VHT80 Ant 1 + 2	

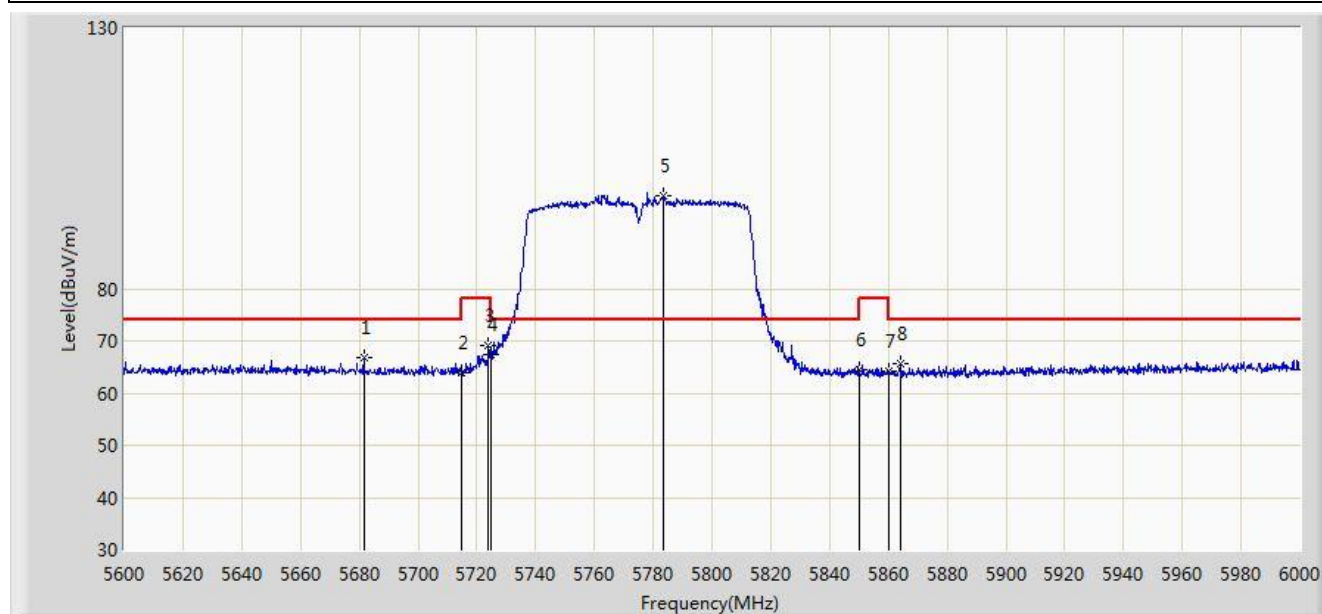


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	52.595	15.143	-1.405	54.000	37.452	AV
2		*	5192.725	83.975	46.633	N/A	N/A	37.342	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5775MHz by 802.11ac-VHT80 Ant 1 + 2	

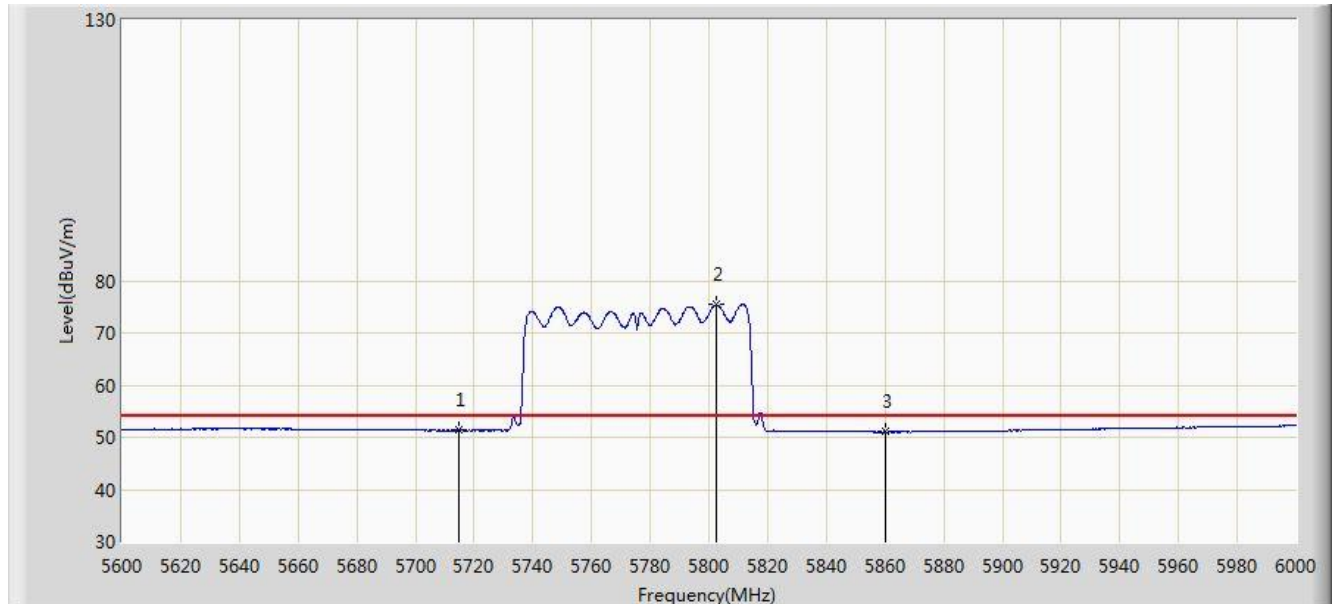


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5681.600	66.956	29.119	-7.044	74.000	37.836	PK
2			5715.000	63.871	25.922	-10.129	74.000	37.949	PK
3			5724.000	69.270	31.284	-8.930	78.200	37.986	PK
4			5725.000	67.270	29.280	-10.930	78.200	37.990	PK
5		*	5783.400	97.911	59.704	N/A	N/A	38.206	PK
6			5850.000	64.401	25.948	-13.799	78.200	38.454	PK
7			5860.000	64.124	25.646	-9.876	74.000	38.478	PK
8			5864.000	65.570	27.085	-8.430	74.000	38.485	PK

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

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

Site: AC1	Time: 2016/07/01 - 20:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5775MHz by 802.11ac-VHT80 Ant 1 + 2	

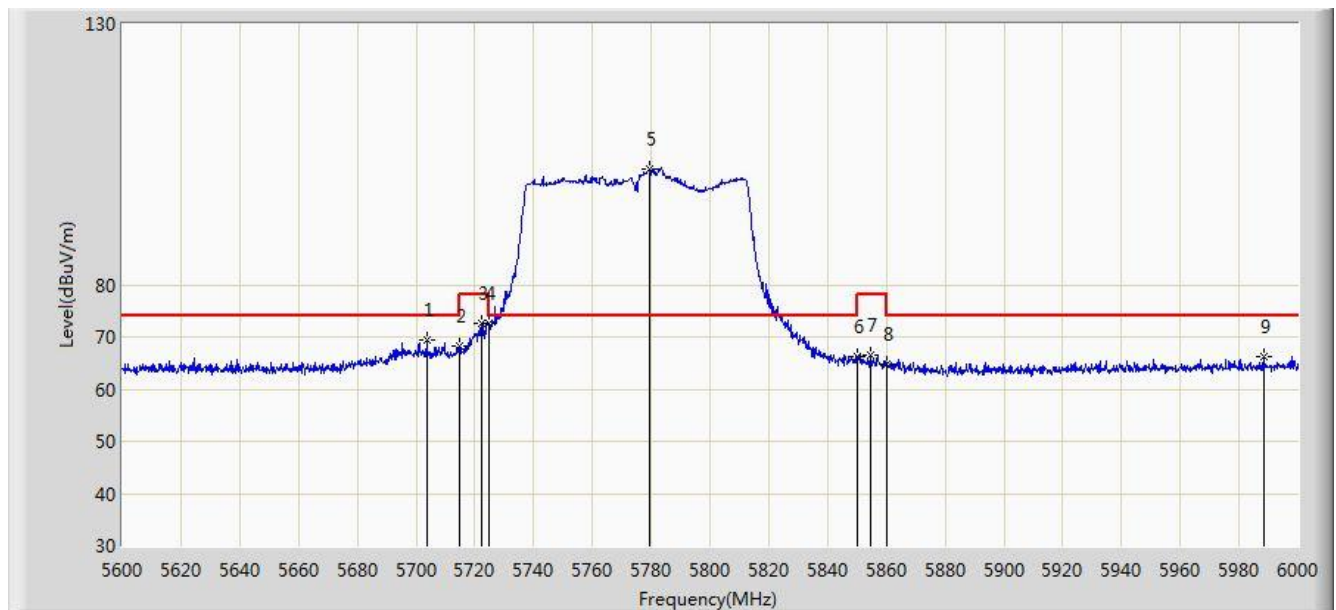


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.317	13.368	-2.683	54.000	37.949	AV
2		*	5802.600	75.367	37.095	N/A	N/A	38.272	AV
3			5860.000	51.026	12.548	-2.974	54.000	38.478	AV

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

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

Site: AC1	Time: 2016/07/01 - 17:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5775MHz by 802.11ac-VHT80 Ant 1 + 2	

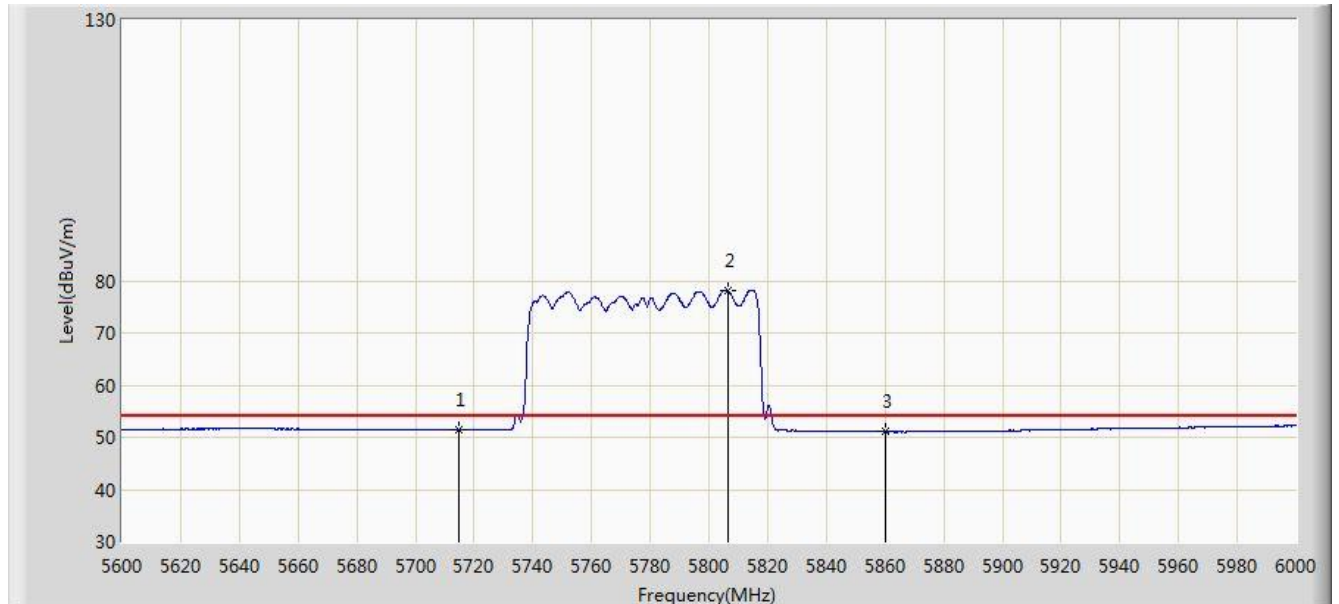


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5703.600	69.419	31.517	-4.581	74.000	37.902	PK
2			5715.000	68.319	30.370	-5.681	74.000	37.949	PK
3			5722.200	72.722	34.744	-5.478	78.200	37.978	PK
4			5725.000	72.747	34.757	-5.453	78.200	37.990	PK
5		*	5779.200	102.284	64.093	N/A	N/A	38.192	PK
6			5850.000	66.214	27.761	-11.986	78.200	38.454	PK
7			5854.800	66.589	28.124	-11.611	78.200	38.465	PK
8			5860.000	64.706	26.228	-9.294	74.000	38.478	PK
9			5988.400	66.257	27.685	-7.743	74.000	38.572	PK

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

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

Site: AC1	Time: 2016/07/01 - 20:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: DC 5V
Test Mode: Transmit at channel 5775MHz by 802.11ac-VHT80 Ant 1 + 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.355	13.406	-2.645	54.000	37.949	AV
2		*	5806.400	78.111	39.828	N/A	N/A	38.284	AV
3			5860.000	51.045	12.567	-2.955	54.000	38.478	AV

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

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

7.11. AC Conducted Emissions Measurement

7.11.1. Test Limit

FCC Part 15.207 & RSS-Gen Issue 4 Section 8.8 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
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.

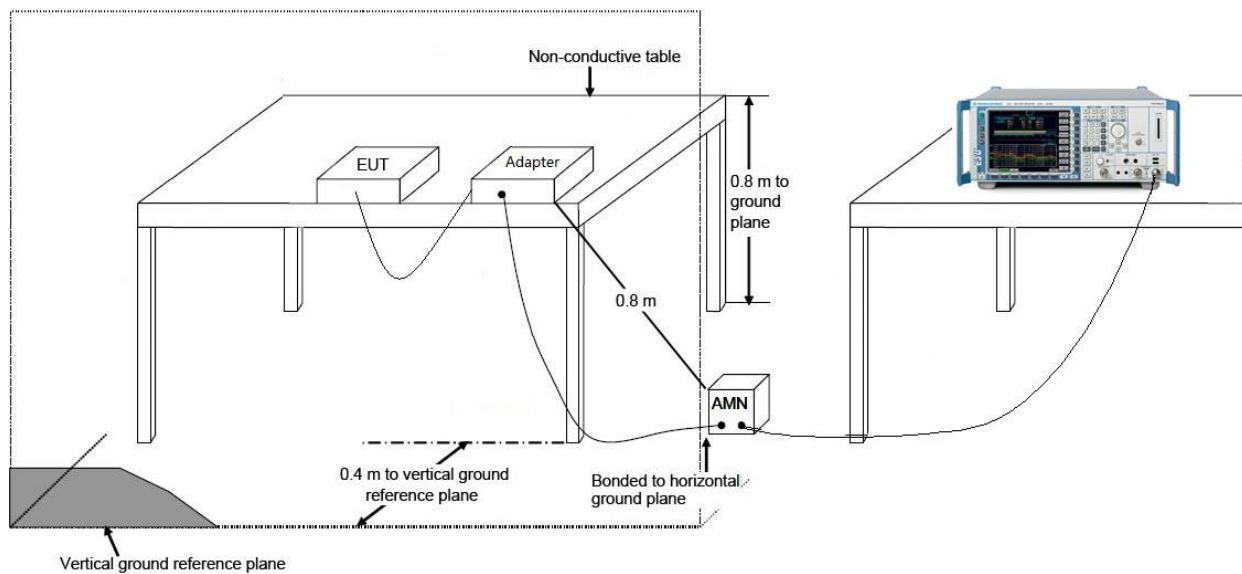
7.11.2. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

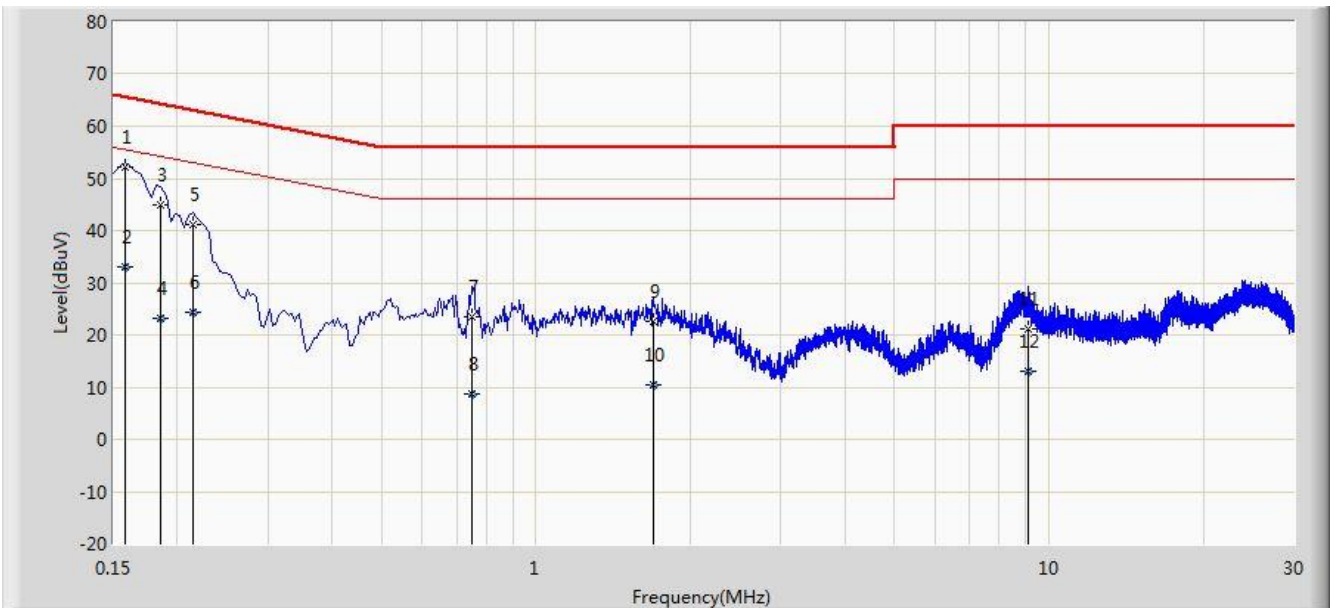
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7.11.3. Test Setup



7.11.4. Test Result

Site: SR2	Time: 2016/06/20 - 10:03
Limit: FCC_Part15.207_CE_AC Power	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: WIFI Module	Power: AC 120V/60Hz
Note: Mode1	

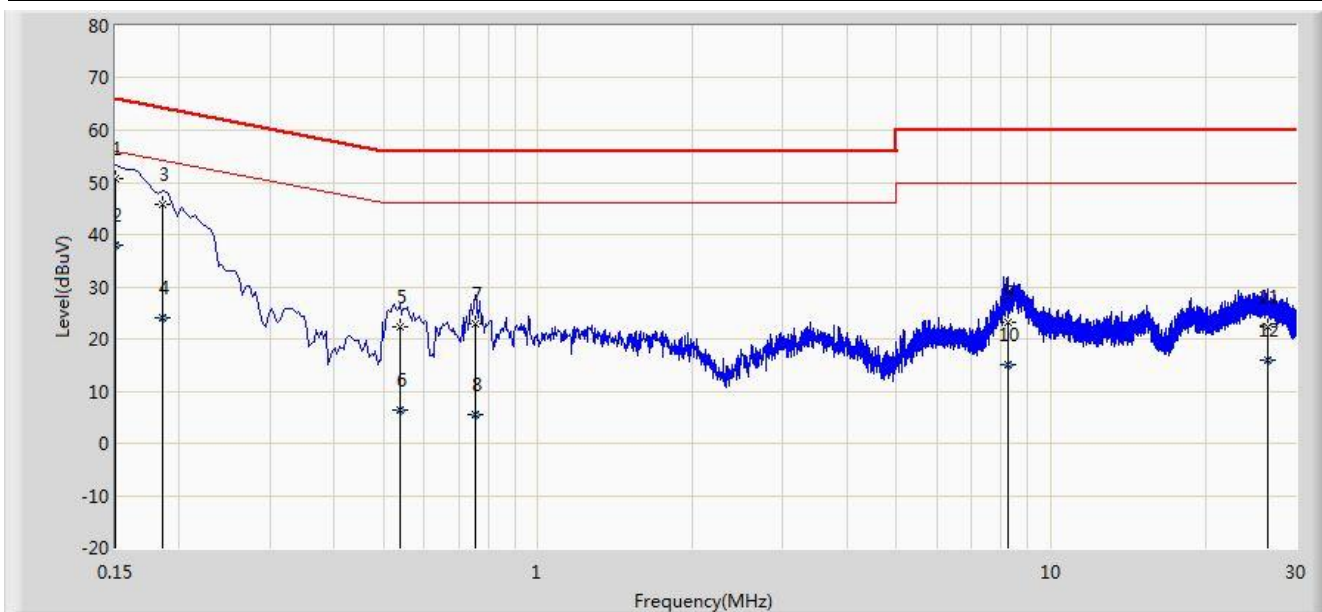


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.158	52.291	41.980	-13.278	65.568	10.311	QP
2			0.158	33.094	22.783	-22.474	55.568	10.311	AV
3			0.186	44.805	34.767	-19.408	64.213	10.039	QP
4			0.186	23.144	13.105	-31.070	54.213	10.039	AV
5			0.214	41.106	31.149	-21.942	63.049	9.957	QP
6			0.214	24.224	14.268	-28.824	53.049	9.957	AV
7			0.750	23.582	13.545	-32.418	56.000	10.037	QP
8			0.750	8.689	-1.348	-37.311	46.000	10.037	AV
9			1.694	22.479	12.597	-33.521	56.000	9.882	QP
10			1.694	10.306	0.425	-35.694	46.000	9.882	AV
11			9.086	21.268	11.107	-38.732	60.000	10.161	QP
12			9.086	13.150	2.989	-36.850	50.000	10.161	AV

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

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

Site: SR2	Time: 2016/06/20 - 10:07
Limit: FCC_Part15.207_CE_AC Power	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: WIFI Module	Power: AC 120V/60Hz
Note: Mode1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.150	50.641	39.499	-15.359	66.000	11.142	QP
2			0.150	38.012	26.870	-17.988	56.000	11.142	AV
3			0.186	45.828	35.793	-18.385	64.213	10.035	QP
4			0.186	24.106	14.071	-30.107	54.213	10.035	AV
5			0.538	22.176	12.010	-33.824	56.000	10.166	QP
6			0.538	6.349	-3.817	-39.651	46.000	10.166	AV
7			0.754	22.950	12.905	-33.050	56.000	10.045	QP
8			0.754	5.544	-4.501	-40.456	46.000	10.045	AV
9			8.234	23.144	12.963	-36.856	60.000	10.180	QP
10			8.234	15.116	4.935	-34.884	50.000	10.180	AV
11			26.406	22.217	11.863	-37.783	60.000	10.354	QP
12			26.406	15.933	5.579	-34.067	50.000	10.354	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 **WIFI Module FCC ID:**

2AC23-WC0DR2611 is in compliance with Part 15E of the FCC Rules.

The End