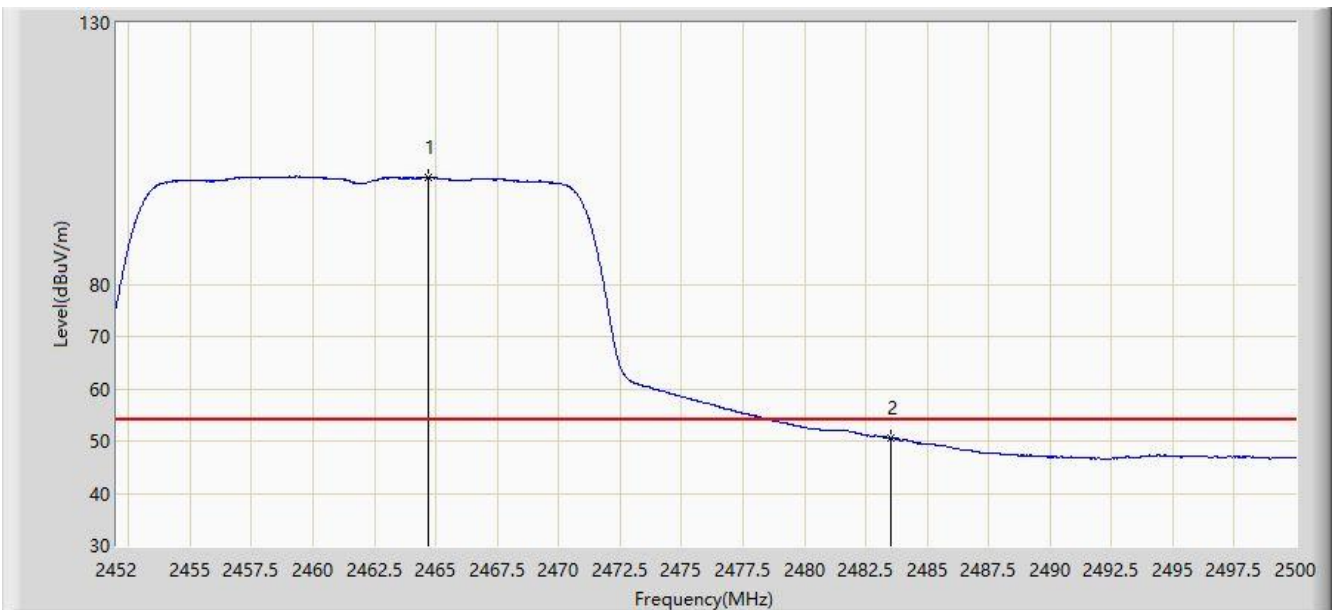


Site: AC1	Time: 2018/02/08 - 01:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4x4 Wave-2 802.11BGN Mini PCIe WiFi Module	Power: DC 3.3V
Note: Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz Ant 0+1+2+3	

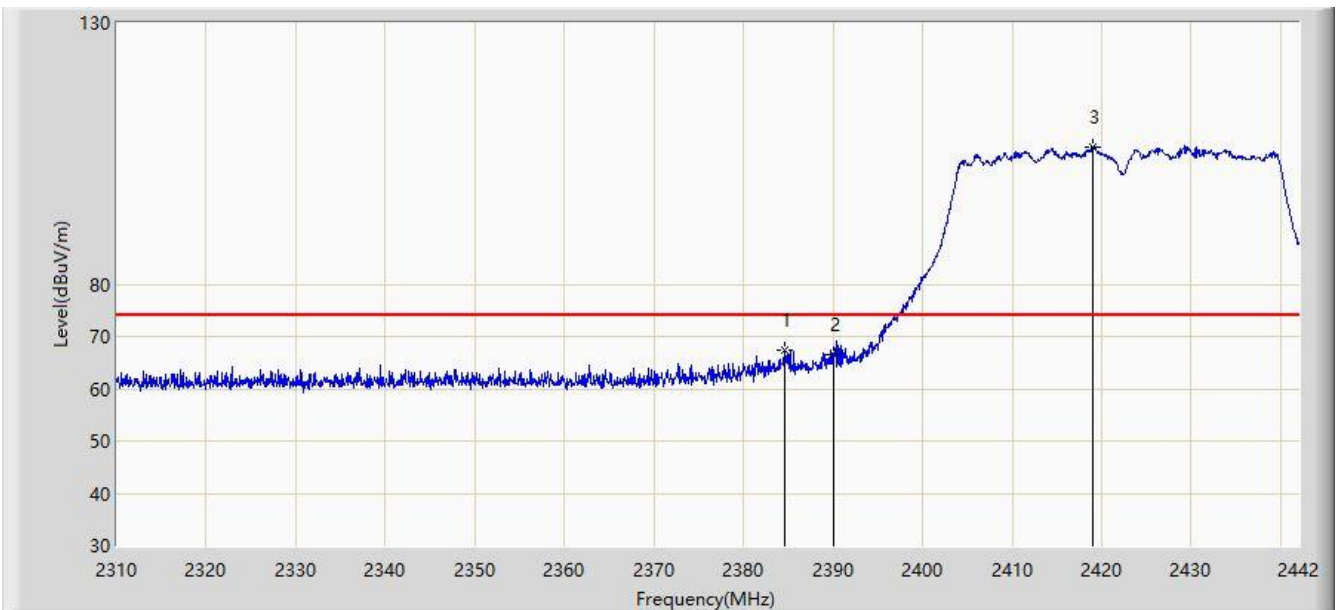


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.672	100.434	68.149	N/A	N/A	32.286	AV
2			2483.500	50.593	18.254	-3.407	54.000	32.340	AV

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

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

Site: AC1	Time: 2018/02/08 - 01:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4x4 Wave-2 802.11BGN Mini PCIe WiFi Module	Power: DC 3.3V
Note: Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz Ant 0+1+2+3	

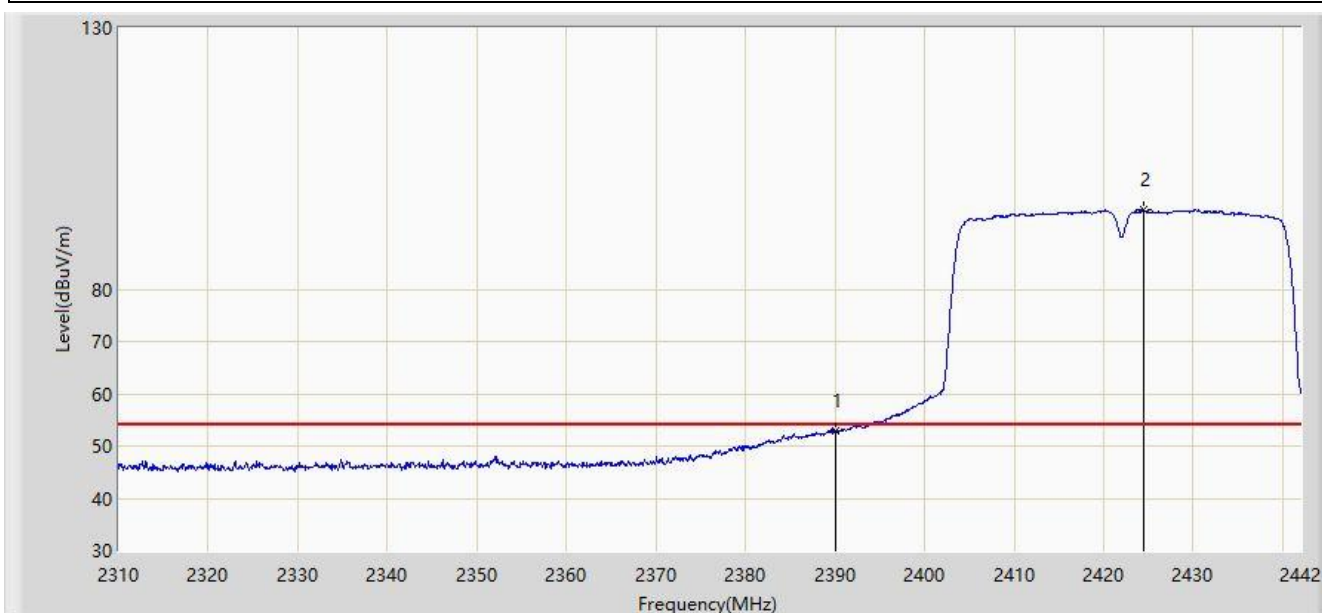


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.580	67.423	35.089	-6.577	74.000	32.334	PK
2			2390.000	66.637	34.310	-7.363	74.000	32.327	PK
3		*	2419.032	106.298	74.016	N/A	N/A	32.282	PK

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

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

Site: AC1	Time: 2018/02/08 - 01:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4x4 Wave-2 802.11n Mini PCIe WiFi Module	Power: DC 3.3V
Note: Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz Ant 0+1+2+3	

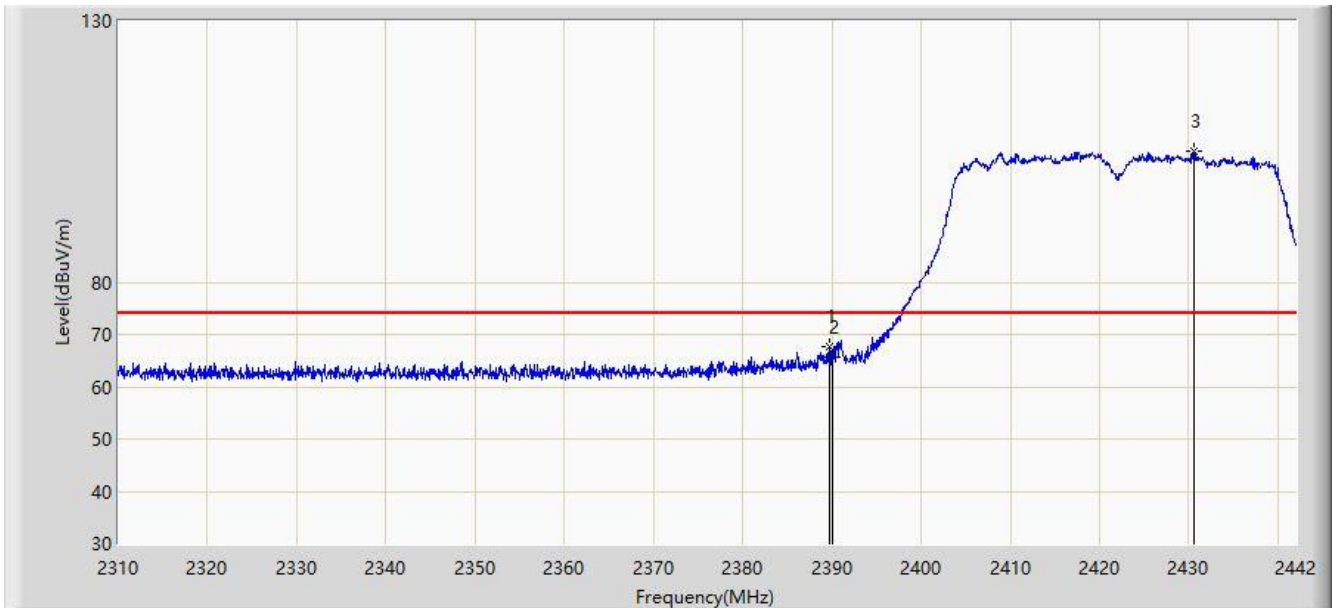


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.922	20.595	-1.078	54.000	32.327	AV
2		*	2424.510	95.214	62.935	N/A	N/A	32.279	AV

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

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

Site: AC1	Time: 2018/02/08 - 01:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4x4 Wave-2 802.11BGN Mini PCIe WiFi Module	Power: DC 3.3V
Note: Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz Ant 0+1+2+3	

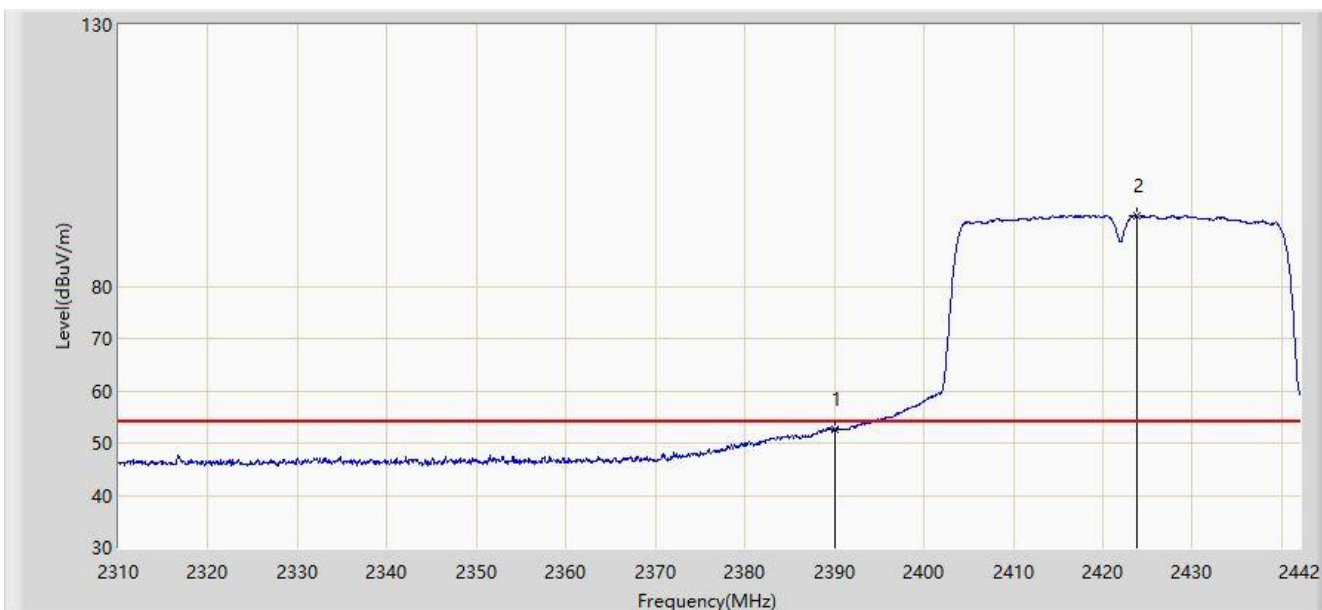


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.662	67.672	35.345	-6.328	74.000	32.328	PK
2			2390.000	65.670	33.343	-8.330	74.000	32.327	PK
3		*	2430.516	105.021	72.747	N/A	N/A	32.274	PK

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

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

Site: AC1	Time: 2018/02/08 - 01:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4x4 Wave-2 802.11BGN Mini PCIe WiFi Module	Power: DC 3.3V
Note: Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz Ant 0+1+2+3	

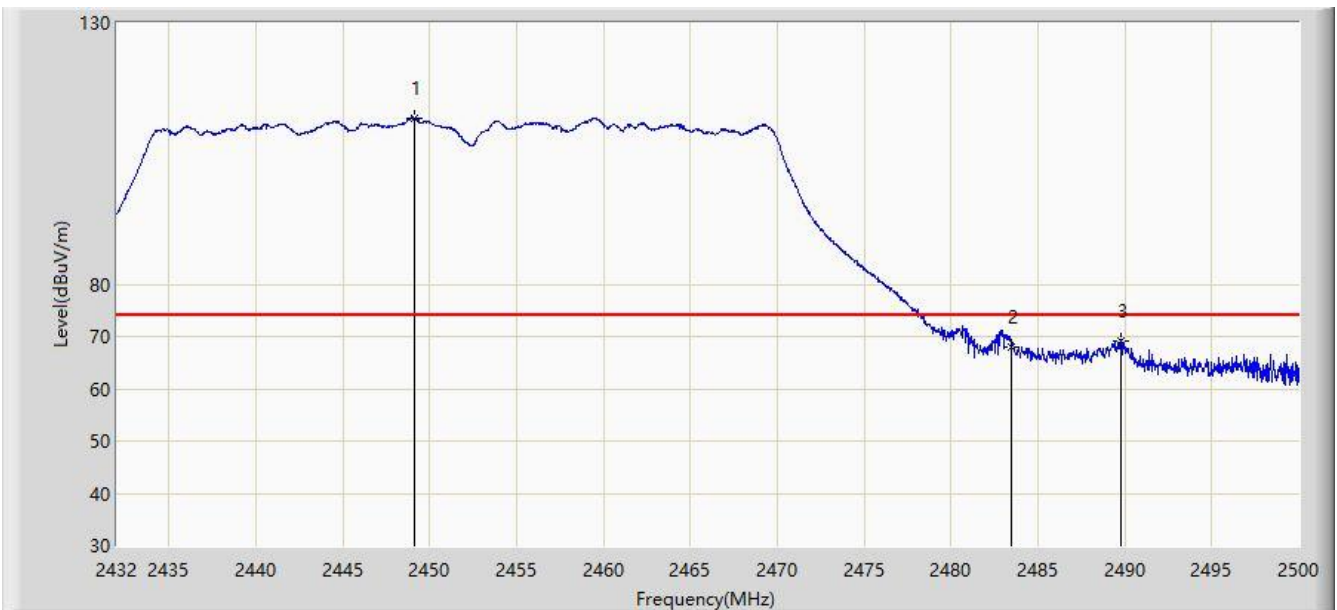


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.650	20.323	-1.350	54.000	32.327	AV
2		*	2423.850	93.517	61.237	N/A	N/A	32.280	AV

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

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

Site: AC1	Time: 2018/02/08 - 01:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4x4 Wave-2 802.11BGN Mini PCIe WiFi Module	Power: DC 3.3V
Note: Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz Ant 0+1+2+3	

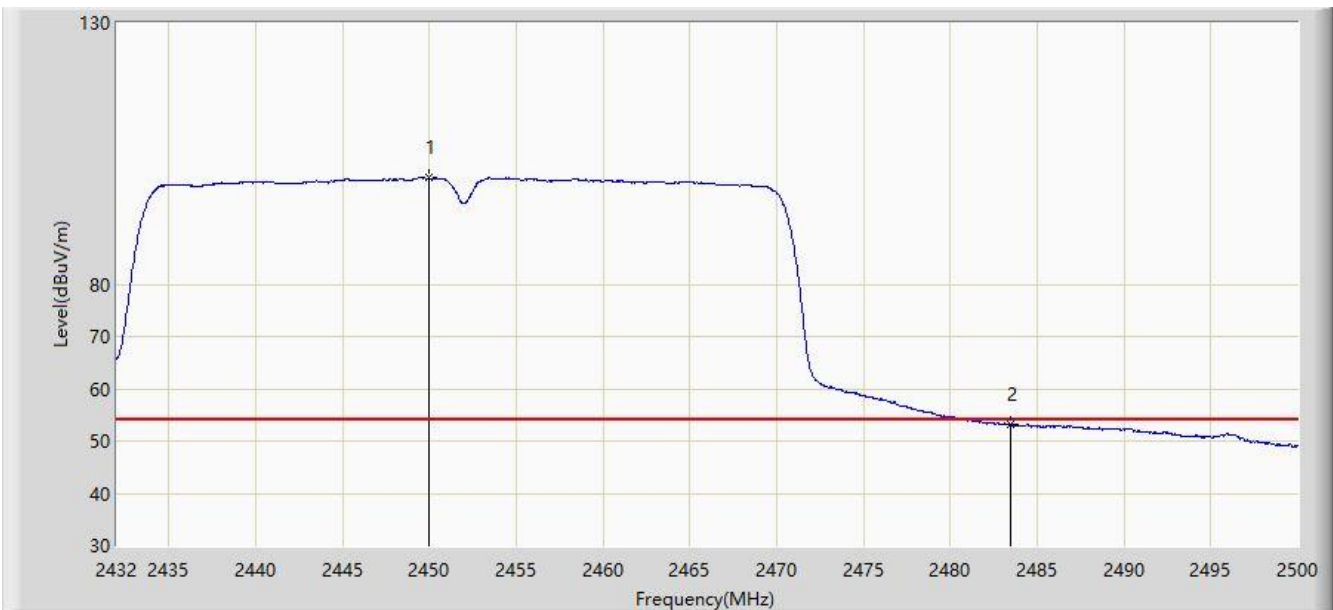


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2449.102	111.881	79.627	N/A	N/A	32.255	PK
2			2483.500	68.047	35.708	-5.953	74.000	32.340	PK
3			2489.732	69.264	36.900	-4.736	74.000	32.364	PK

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

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

Site: AC1	Time: 2018/02/08 - 01:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4x4 Wave-2 802.11BGN Mini PCIe WiFi Module	Power: DC 3.3V
Note: Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz Ant 0+1+2+3	

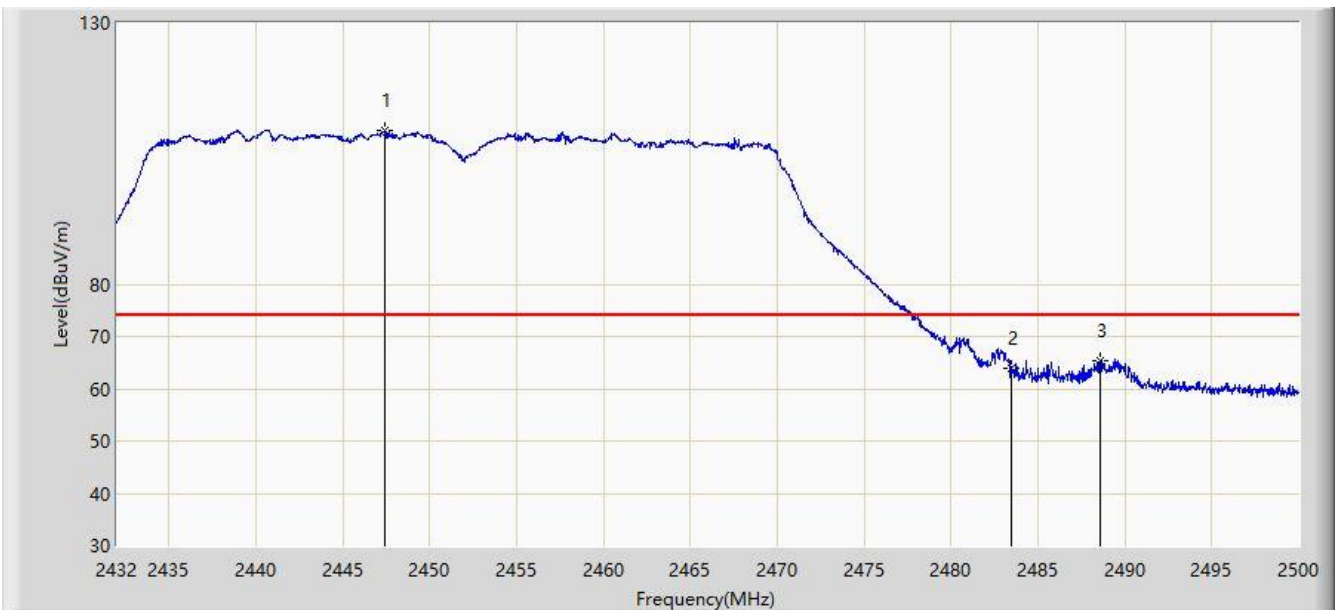


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2449.986	100.351	68.095	N/A	N/A	32.257	AV
2			2483.500	53.154	20.815	-0.846	54.000	32.340	AV

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

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

Site: AC1	Time: 2018/02/08 - 01:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4x4 Wave-2 802.11BGN Mini PCIe WiFi Module	Power: DC 3.3V
Note: Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz Ant 0+1+2+3	

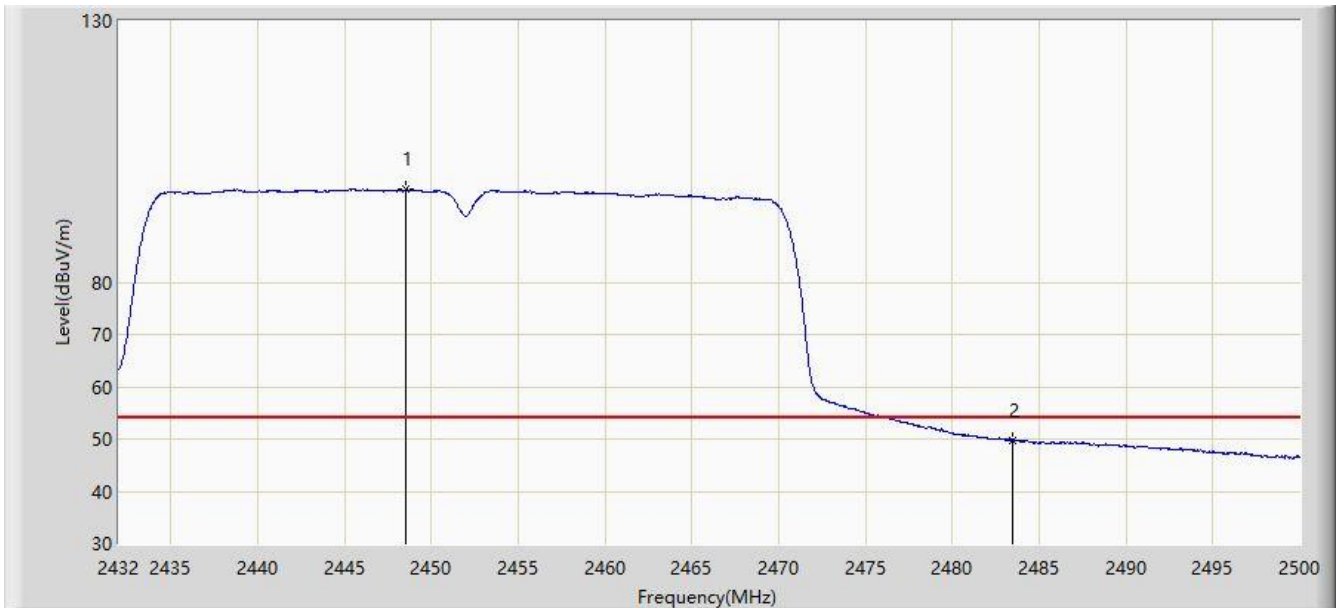


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2447.436	109.354	77.103	N/A	N/A	32.251	PK
2			2483.500	63.926	31.587	-10.074	74.000	32.340	PK
3			2488.542	65.446	33.087	-8.554	74.000	32.359	PK

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

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

Site: AC1	Time: 2018/02/08 - 01:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4x4 Wave-2 802.11BGN Mini PCIe WiFi Module	Power: DC 3.3V
Note: Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz Ant 0+1+2+3	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2448.558	97.697	65.444	N/A	N/A	32.253	AV
2			2483.500	49.808	17.469	-4.192	54.000	32.340	AV

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

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

7.8. AC Conducted Emissions Measurement

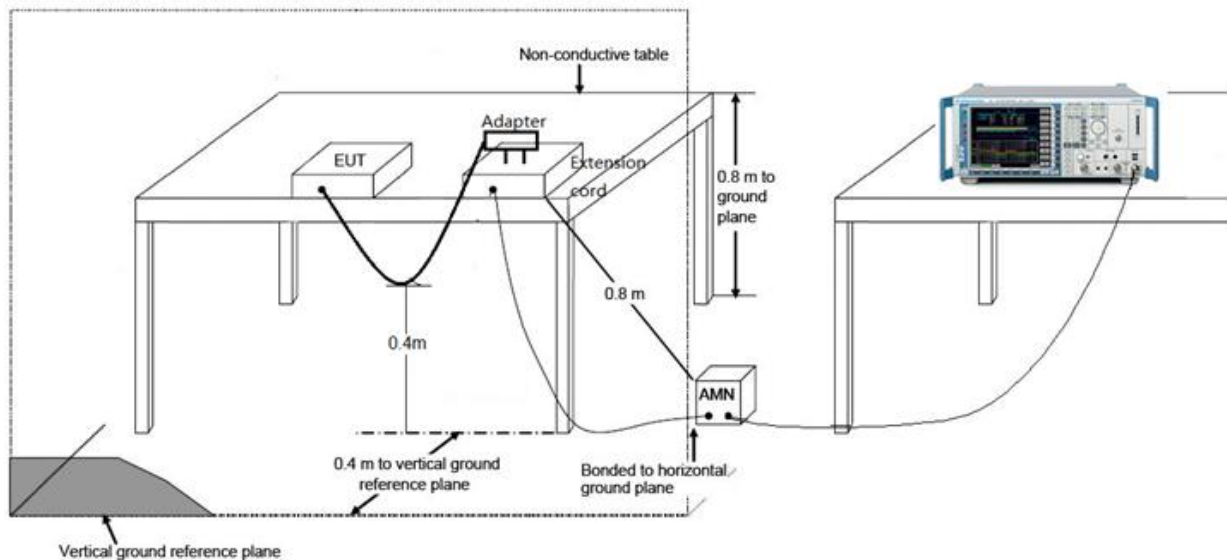
7.8.1. Test Limit

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

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

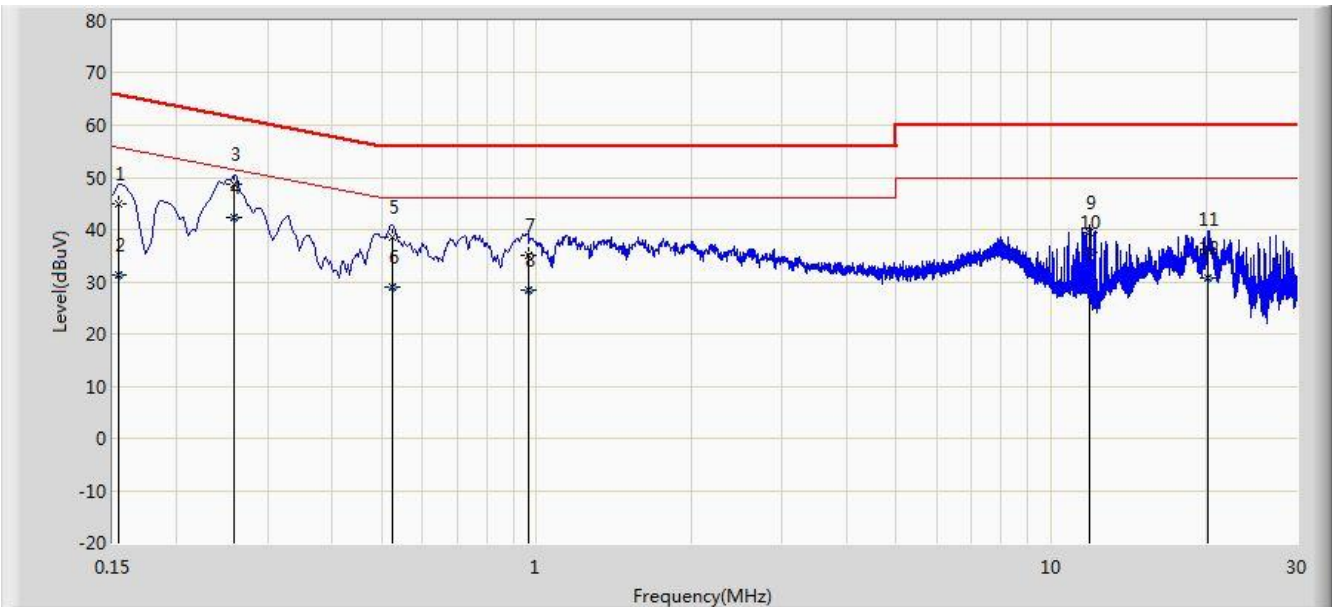
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3.Test Result

Site: SR2	Time: 2018/03/08 - 23:02
Limit: FCC_Part15.207_CE_AC Power	Engineer: Bruce Wang
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: 4x4 Wave-2 802.11BGN Mini PCIe WiFi Module	Power: Power by PCB Board
Test Mode 1	

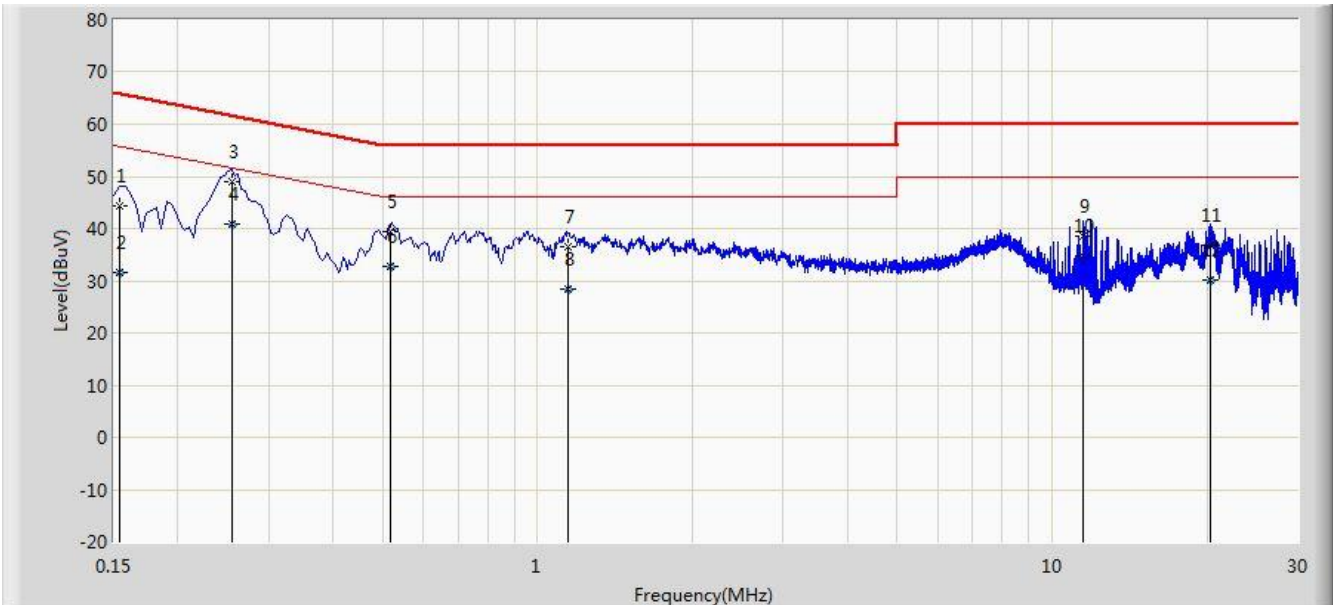


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	44.788	34.048	-20.994	65.781	10.740	QP
2			0.154	31.446	20.707	-24.335	55.781	10.740	AV
3			0.258	48.731	38.760	-12.765	61.496	9.970	QP
4		*	0.258	42.462	32.491	-9.034	51.496	9.970	AV
5			0.526	38.473	28.320	-17.527	56.000	10.153	QP
6			0.526	28.872	18.719	-17.128	46.000	10.153	AV
7			0.962	35.162	25.234	-20.838	56.000	9.928	QP
8			0.962	28.448	18.520	-17.552	46.000	9.928	AV
9			11.894	39.317	29.226	-20.683	60.000	10.091	QP
10			11.894	35.679	25.588	-14.321	50.000	10.091	AV
11			20.198	36.362	26.223	-23.638	60.000	10.139	QP
12			20.198	30.628	20.489	-19.372	50.000	10.139	AV

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

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

Site: SR2	Time: 2018/03/08 - 23:06
Limit: FCC_Part15.207_CE_AC Power	Engineer: Bruce Wang
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: 4x4 Wave-2 802.11BGN Mini PCIe WiFi Module	Power: Power by PCB Board
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	44.371	33.655	-21.411	65.781	10.716	QP
2			0.154	31.563	20.847	-24.218	55.781	10.716	AV
3			0.254	48.912	38.908	-12.714	61.625	10.004	QP
4		*	0.254	40.889	30.885	-10.736	51.625	10.004	AV
5			0.518	39.344	29.169	-16.656	56.000	10.175	QP
6			0.518	32.667	22.492	-13.333	46.000	10.175	AV
7			1.146	36.514	26.610	-19.486	56.000	9.904	QP
8			1.146	28.282	18.378	-17.718	46.000	9.904	AV
9			11.466	38.655	28.528	-21.345	60.000	10.127	QP
10			11.466	34.815	24.688	-15.185	50.000	10.127	AV
11			20.258	36.679	26.506	-23.321	60.000	10.173	QP
12			20.258	30.028	19.855	-19.972	50.000	10.173	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 **4x4 Wave-2 802.11BGN Mini PCIe WiFi Module** is in compliance with Part 15C of the FCC Rules.

The End