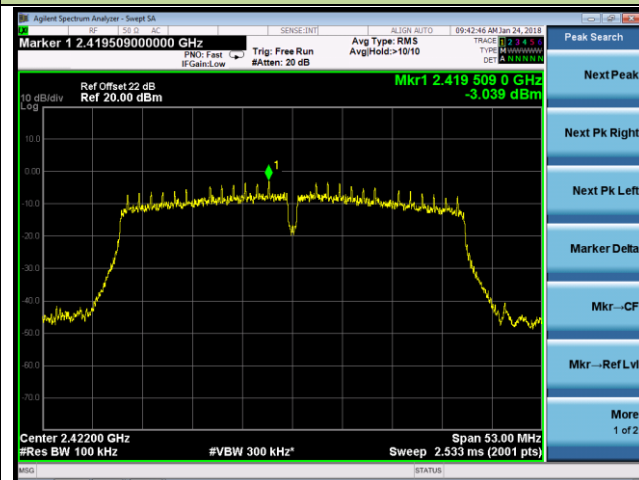


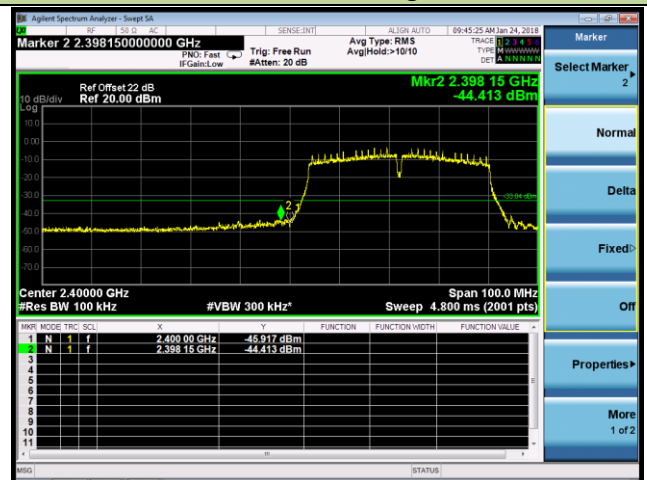
802.11n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 01 (2412MHz)

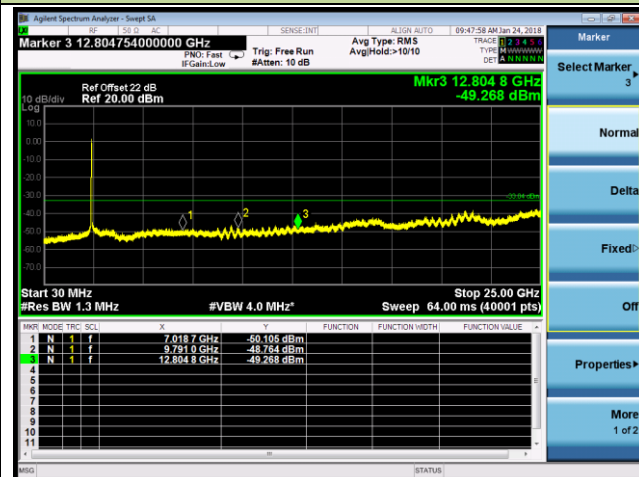
100kHz PSD Reference Level



Low Band Edge



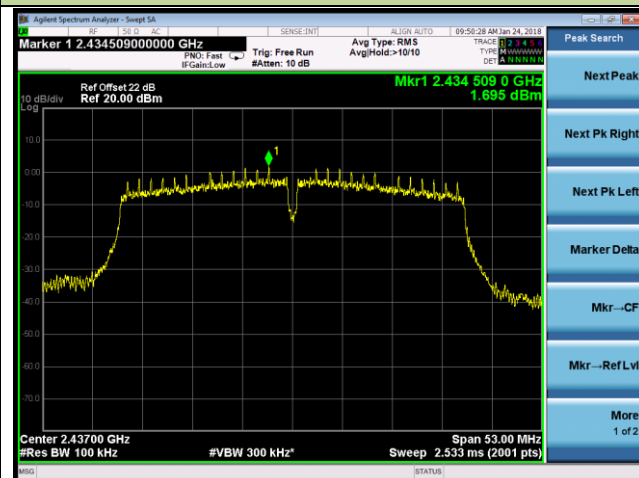
Spurious Emission



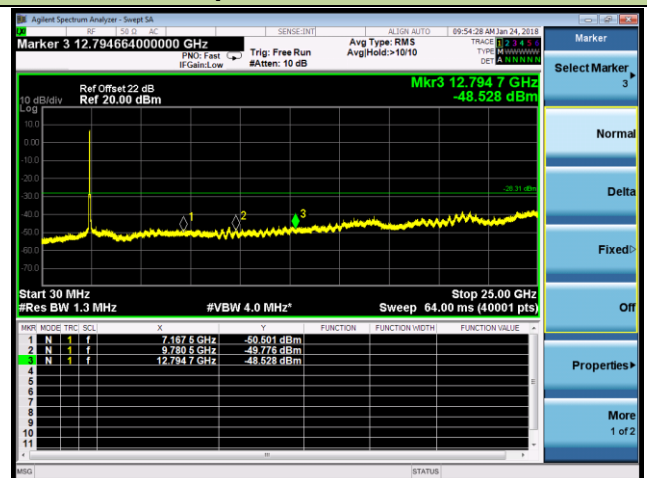
Note: The value of the display line is -33.04

Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission

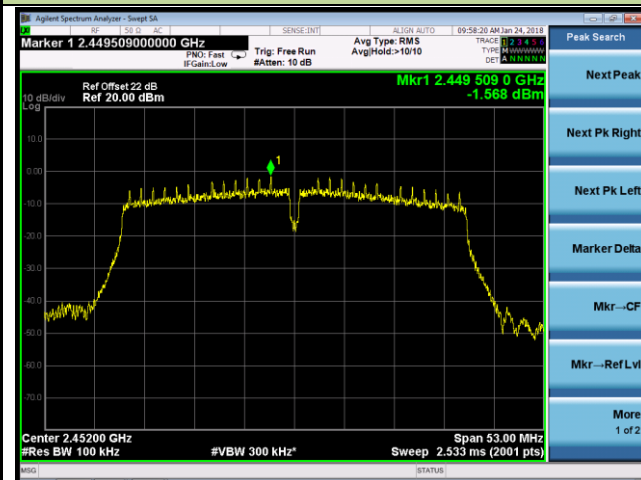


Note: The value of the display line is -29.31

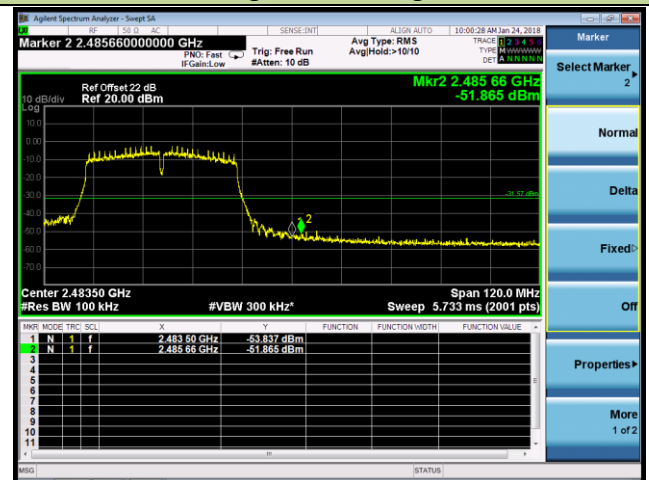
802.11n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 11 (2462MHz)

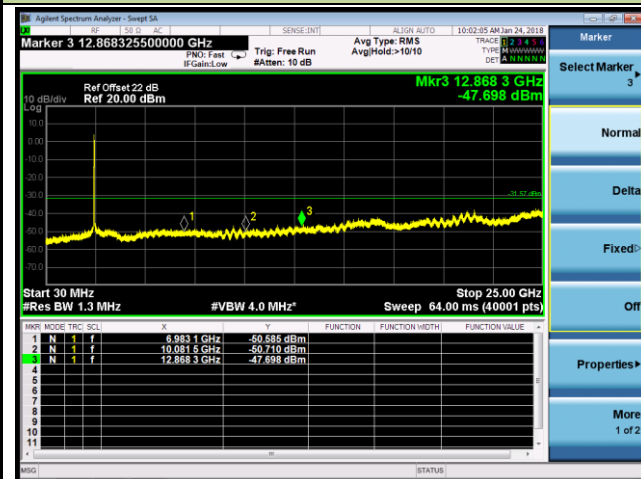
100kHz PSD Reference Level



High Band Edge



Spurious Emission



Note: The value of the display line is -31.57

5.6. 開放頻帶邊緣之不必要幅射要求

5.6.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.5 節，使用頻帶範圍外之任意 100 千赫 (kHz) 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫 (kHz) 內的射頻功率，衰減值限制如下：

(1) 輸出功率以低功率射頻電機技術規範附件二之峰值輸出功率方式量測者，至少須衰減 20 dB，可使用射頻傳導或輻射方式測量。

(2) 輸出功率以低功率射頻電機技術規範 3.10.1(2)(2.3) 之最大傳導輸出功率量測方式者，至少須衰減 30 dB。

此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定(限制要求如下)：

發射依據國家通訊傳播委員會低功率射頻電機技術規範之第 2.8 節，低功率射頻電機，除本規範各章節另有放寬規定者外，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值為準。

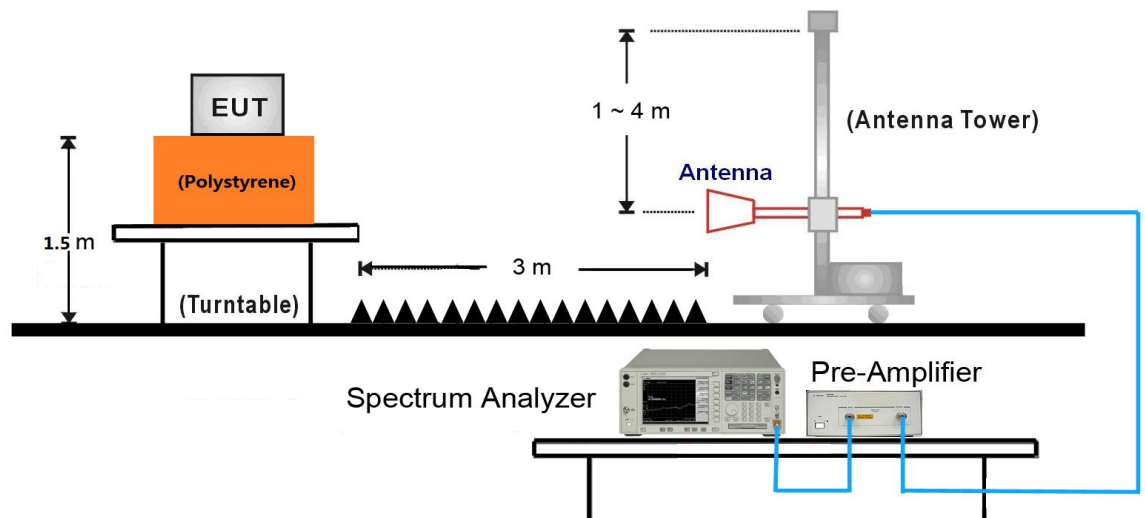
頻 率(兆赫)	電場強度(微伏/公尺)	測距(公尺)
0.009 - 0.490(含)	2,400/頻率(千赫)	300
0.490 (不含) – 1.705 (含)	24,000/頻率(千赫)	30
1.705(不含) – 30 (不含)	30	30
30 (含) – 88 (含)	100	3
88 (不含) - 216 (含)	150	3
216 (不含) - 960 (含)	200	3
960 (不含)以上	500	3

上表規定之電場強度，頻率在 9-90kHz 千赫(kHz)、110-490 千赫(kHz)以及 1000 兆赫(MHz)以上之發射，其量測以平均值檢波器為基準，且須符合第 5.14 節之規定；其他頻率之發射，應以 CISPR 準峰值(quasi-peak) 檢波器測量；非以上表所指定之距離測量時須符合第 5.5 節之規定，而輻射發射之量測頻率範圍須符合第 5.12 節之規定。

5.6.2. 量測方法

待測物置於高 80 公分之非導體桌面（落地型產品置於地上），受測物與配件設備之電源線無須束綁，桌面上受測設備的所有電源線由桌子的後緣垂下沿旋轉桌表面接至交流插座。落地型設備的交流電源線可以方便的型態走線。桌面可 360 度旋轉，接收天線置於距待測物 3m 距離，高度可在 1 至 4 公尺間變動，以量測待測物之最大輻射電場強度。接收天線並應於水準及垂直極化方向各量測一次。

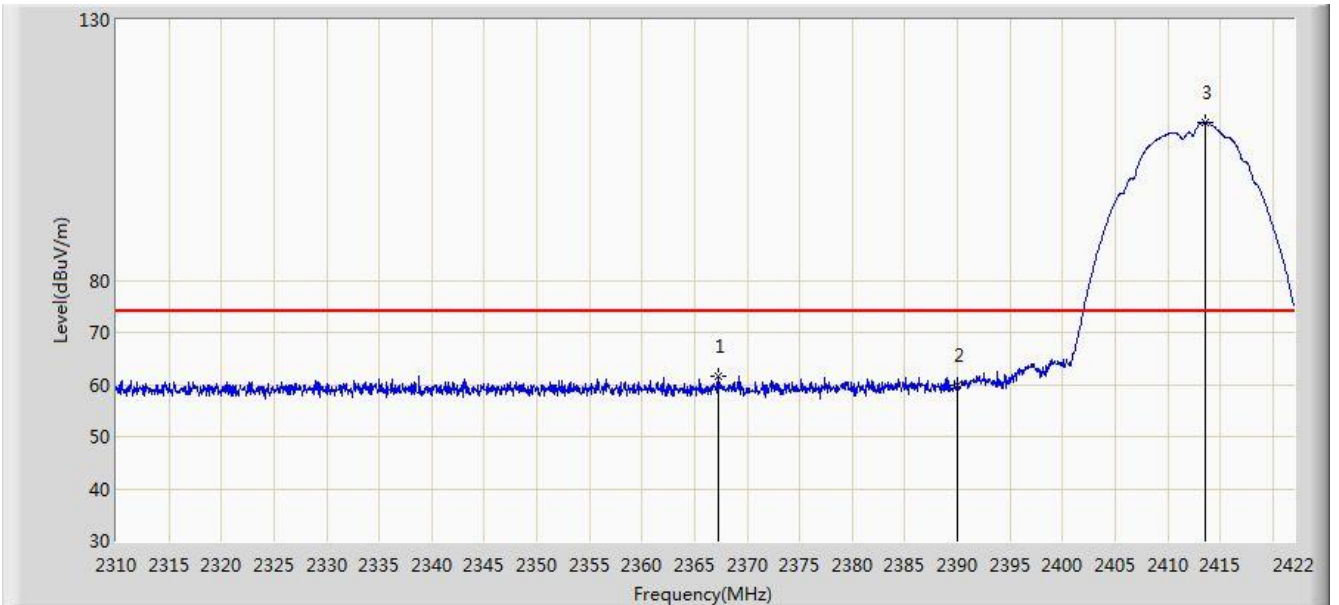
5.6.3. 測試架構圖



備註: 使用頻率範圍外之任意 100 千赫雜訊，使用輻射方式測量，6 dB 頻寬使用 1MHz 遠大於 100kHz 仍可 PASS，檢附其測試數據。

5.6.4. 測試結果

Site: AC1	Time: 2017/12/16 - 14:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz, 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			2367.232	61.509	28.923	-12.491	74.000	32.586	PK
2			2390.000	59.889	27.335	-14.111	74.000	32.554	PK
3		*	2413.600	110.318	77.794	N/A	N/A	32.524	PK

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

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

Site: AC1	Time: 2017/12/16 - 14:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 0 + 1 + 2 + 3	

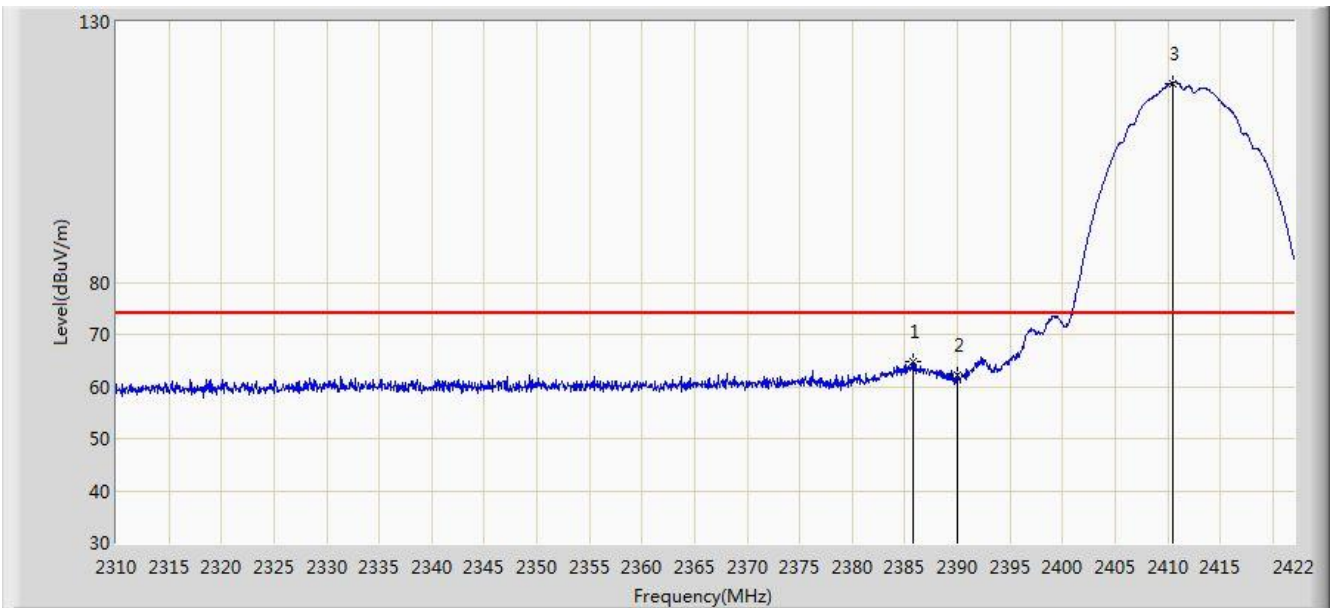


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	44.168	11.614	-9.832	54.000	32.554	AV
2		*	2413.600	106.256	73.732	N/A	N/A	32.524	AV

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

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

Site: AC1	Time: 2017/12/16 - 14:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 0 + 1 + 2 + 3	

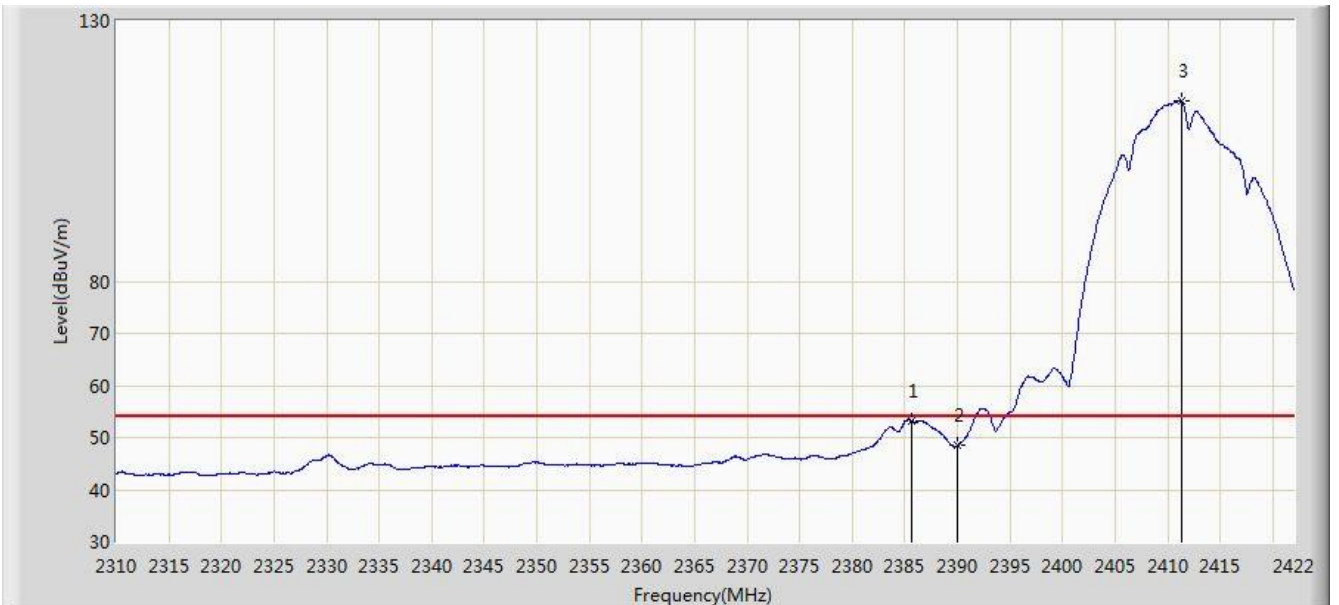


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.824	64.798	32.238	-9.202	74.000	32.560	PK
2			2390.000	62.139	29.585	-11.861	74.000	32.554	PK
3		*	2410.464	118.252	85.724	N/A	N/A	32.527	PK

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

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

Site: AC1	Time: 2017/12/16 - 14:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 0 + 1 + 2 + 3	

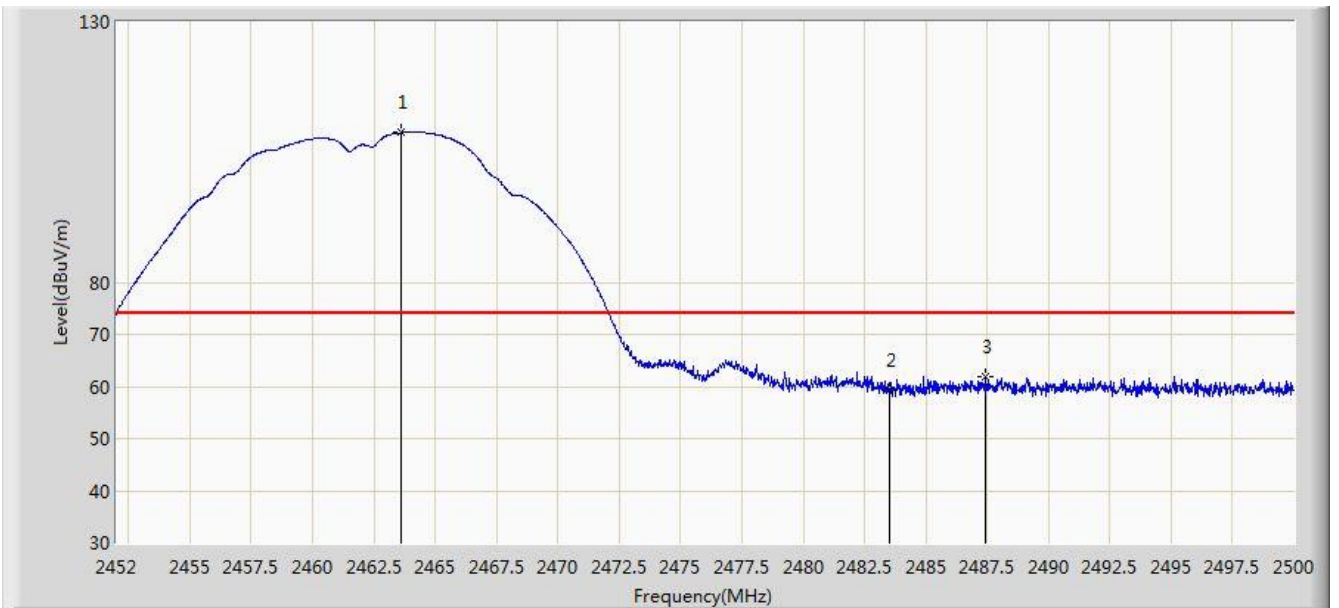


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.712	53.191	20.631	-0.809	54.000	32.560	AV
2			2390.000	48.413	15.859	-5.587	54.000	32.554	AV
3		*	2411.304	114.639	82.113	N/A	N/A	32.526	AV

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

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

Site: AC1	Time: 2017/12/16 - 14:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 0 + 1 + 2 + 3	

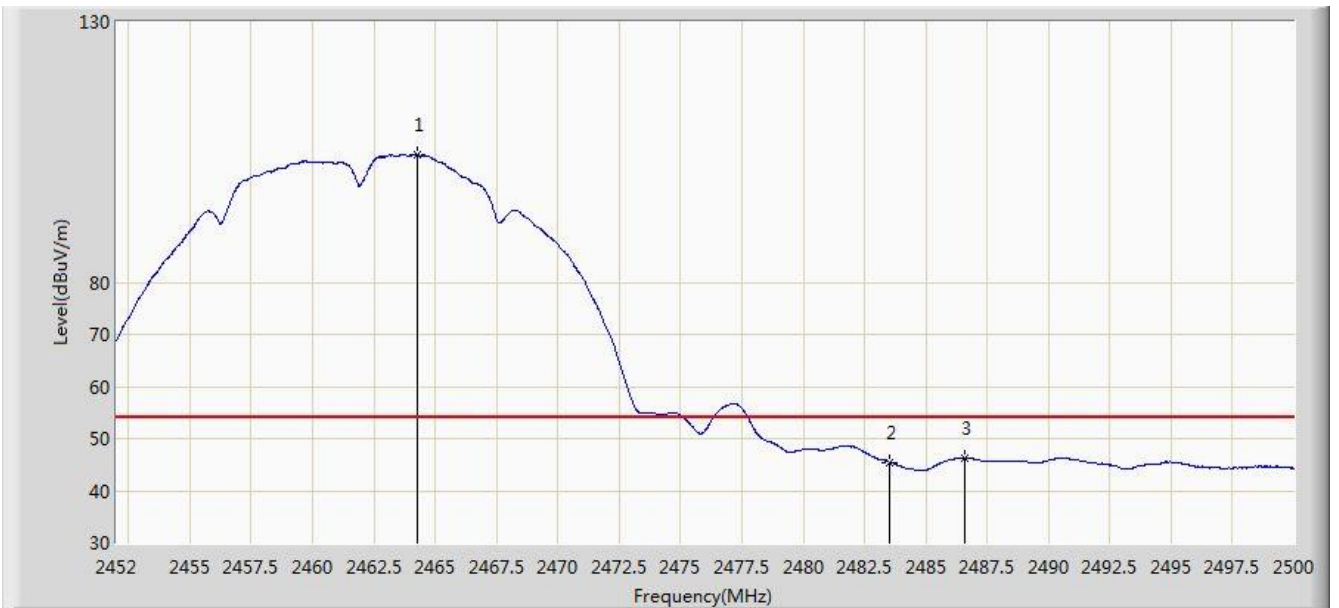


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.616	108.740	76.219	N/A	N/A	32.521	PK
2			2483.500	59.310	26.729	-14.690	74.000	32.580	PK
3			2487.448	62.005	29.413	-11.995	74.000	32.592	PK

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

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

Site: AC1	Time: 2017/12/16 - 14:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 0 + 1 + 2 + 3	

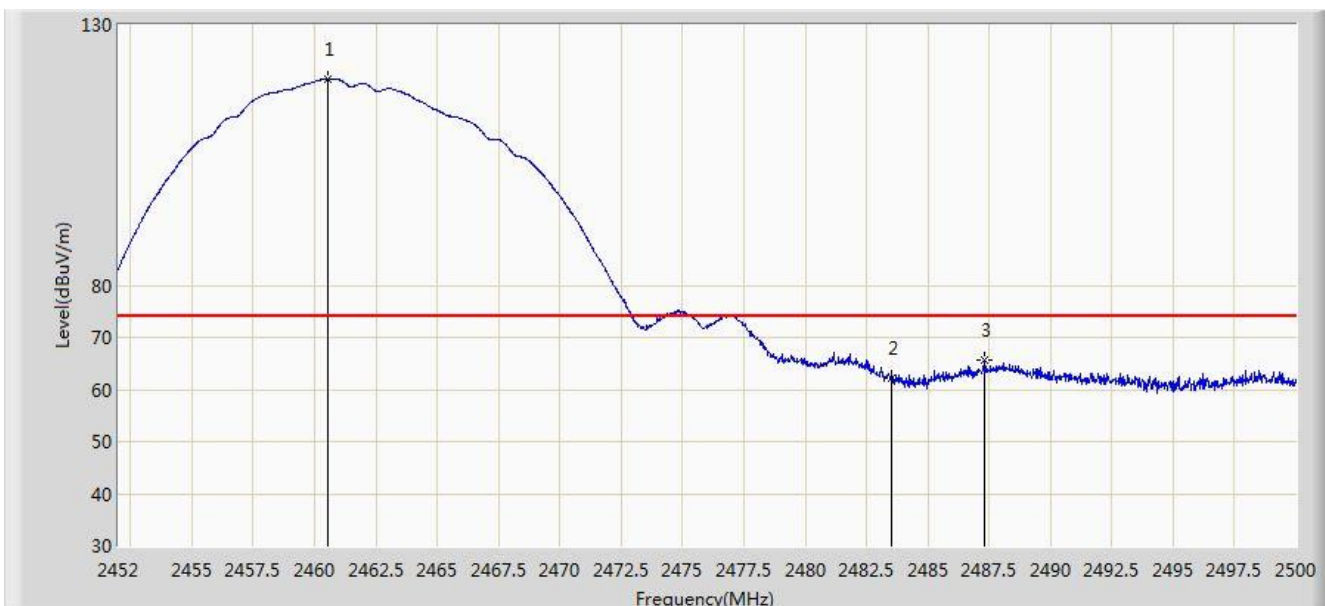


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.288	104.475	71.952	N/A	N/A	32.523	AV
2			2483.500	45.488	12.907	-8.512	54.000	32.580	AV
3			2486.560	46.309	13.719	-7.691	54.000	32.590	AV

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

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

Site: AC1	Time: 2017/12/16 - 14:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b 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		*	2460.544	119.602	87.088	N/A	N/A	32.514	PK
2			2483.500	62.287	29.706	-11.713	74.000	32.580	PK
3			2487.328	65.762	33.170	-8.238	74.000	32.592	PK

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

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

Site: AC1	Time: 2017/12/16 - 14:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 0 + 1 + 2 + 3	

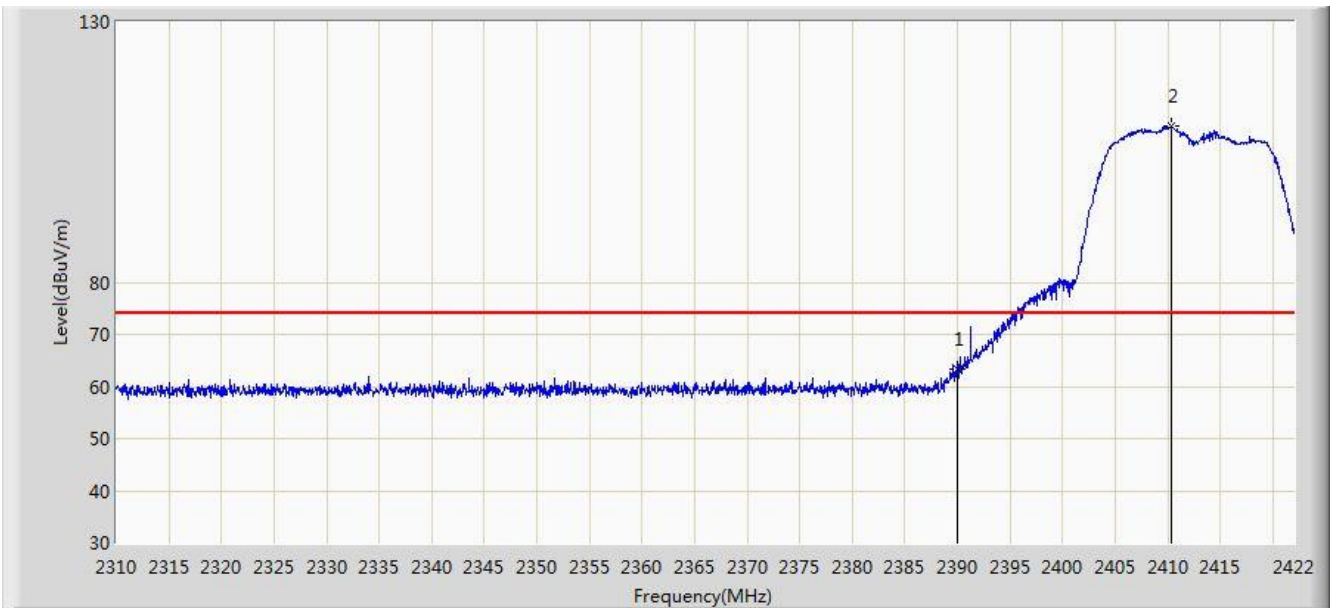


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.312	115.561	83.046	N/A	N/A	32.516	AV
2			2483.500	50.752	18.171	-3.248	54.000	32.580	AV
3			2487.808	52.838	20.245	-1.162	54.000	32.593	AV

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

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

Site: AC1	Time: 2017/12/16 - 14:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz, Ant 0 + 1 + 2 + 3	

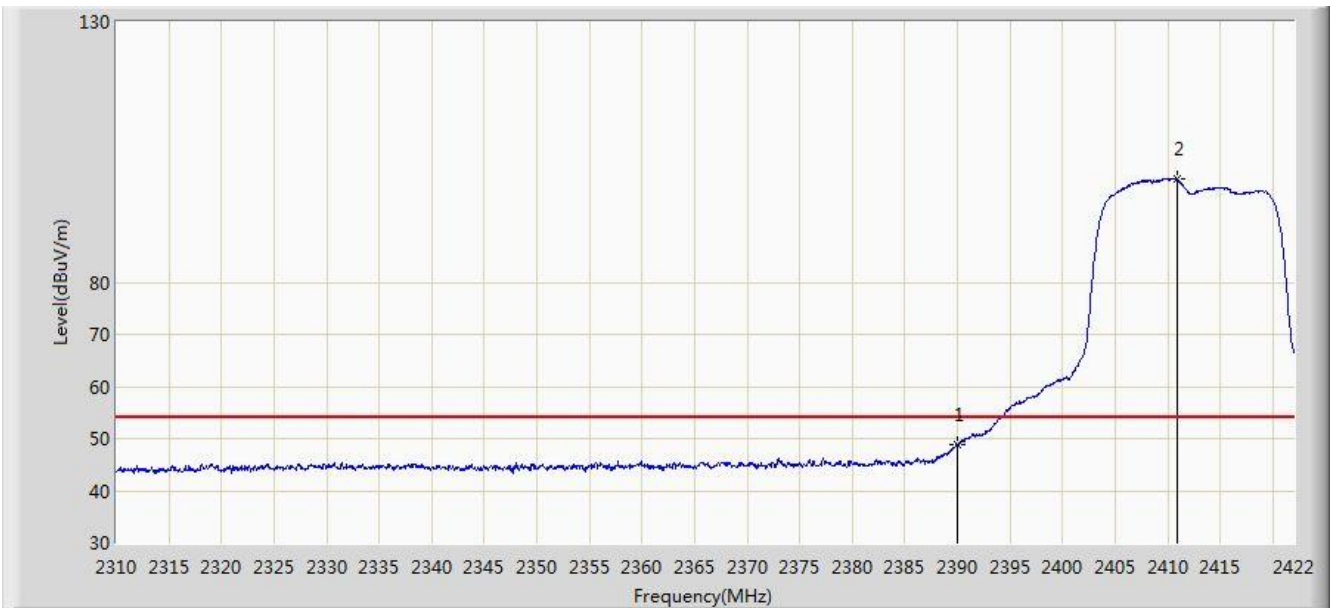


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	63.220	30.666	-10.780	74.000	32.554	PK
2		*	2410.296	110.086	77.558	N/A	N/A	32.528	PK

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

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

Site: AC1	Time: 2017/12/16 - 14:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz, Ant 0 + 1 + 2 + 3	

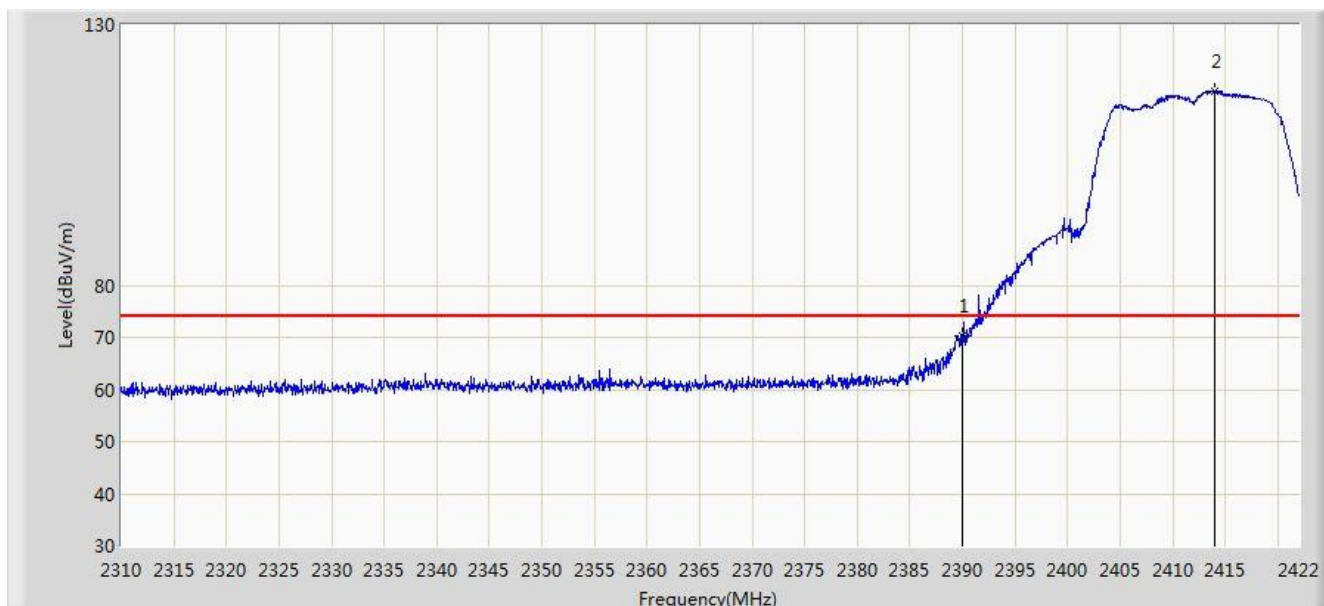


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	48.845	16.291	-5.155	54.000	32.554	AV
2		*	2410.912	99.747	67.220	N/A	N/A	32.527	AV

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

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

Site: AC1	Time: 2017/12/16 - 14:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz, Ant 0 + 1 + 2 + 3	

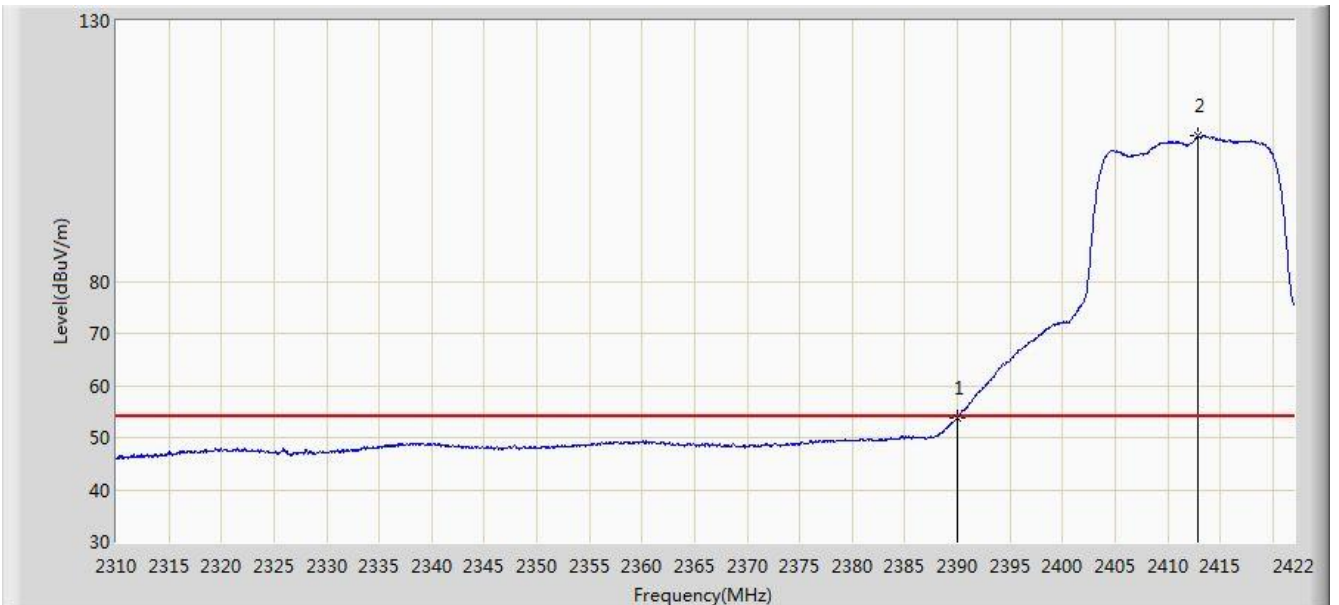


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	70.429	37.875	-3.571	74.000	32.554	PK
2		*	2414.048	117.356	84.833	N/A	N/A	32.523	PK

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

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

Site: AC1	Time: 2017/12/16 - 14:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz, Ant 0 + 1 + 2 + 3	

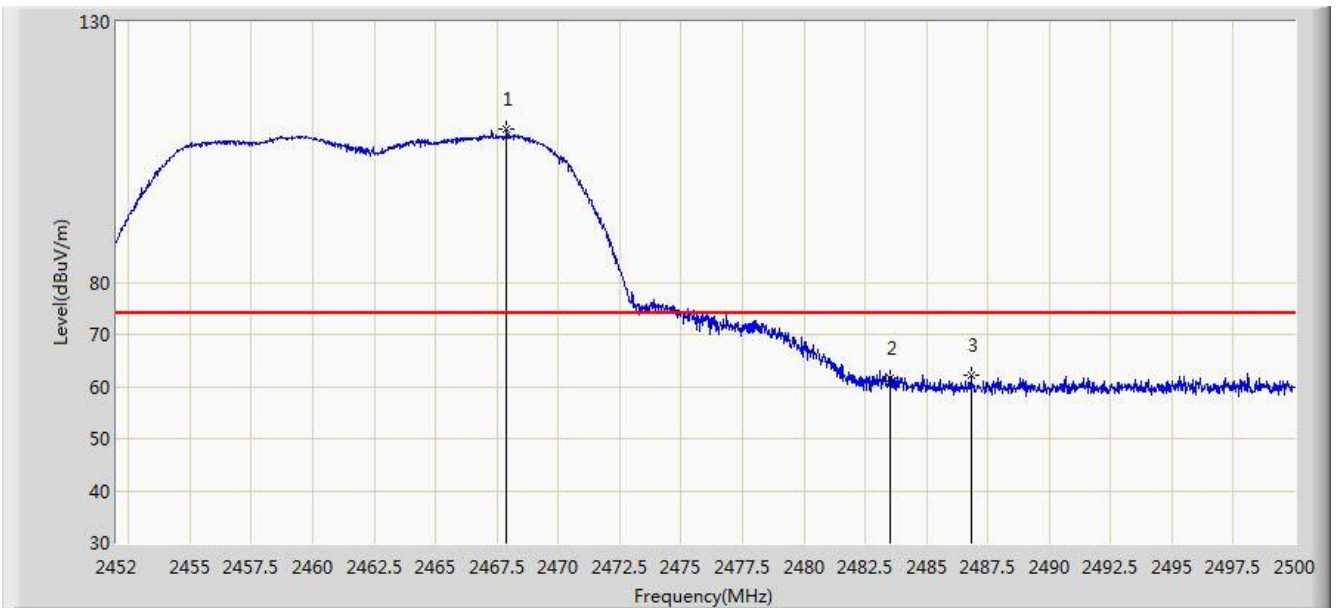


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.811	21.257	-0.189	54.000	32.554	AV
2		*	2412.872	107.840	75.315	N/A	N/A	32.524	AV

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

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

Site: AC1	Time: 2017/12/16 - 15:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz, Ant 0 + 1 + 2 + 3	

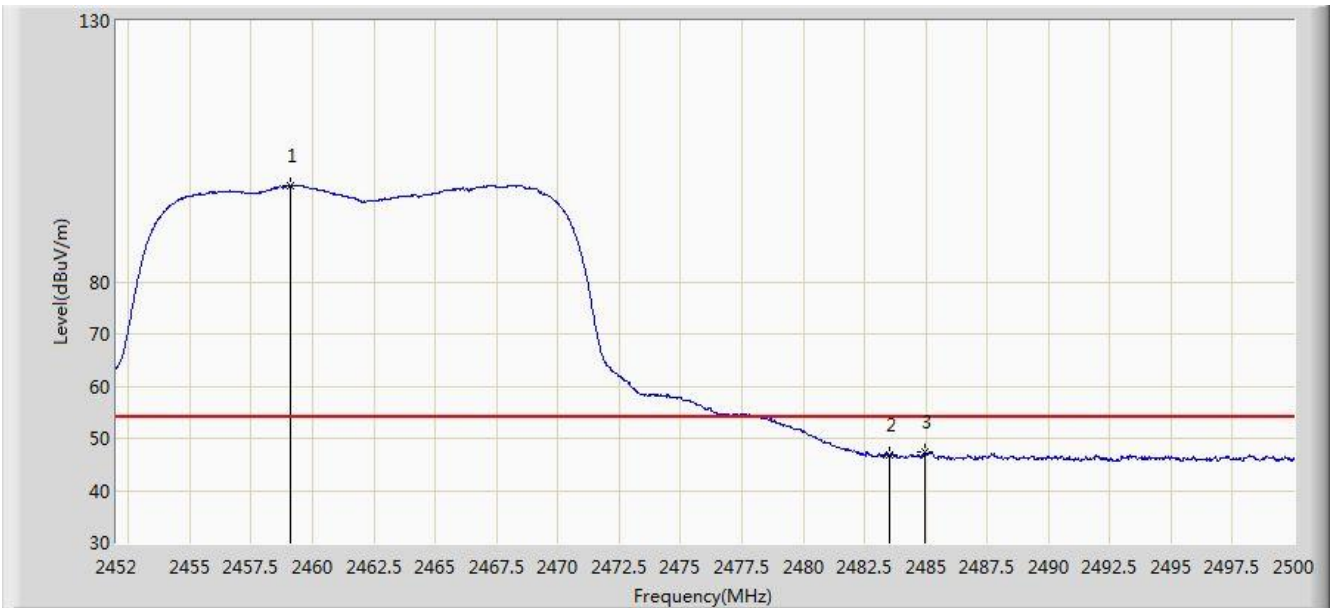


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2467.888	109.542	77.008	N/A	N/A	32.533	PK
2			2483.500	61.698	29.117	-12.302	74.000	32.580	PK
3			2486.800	62.135	29.545	-11.865	74.000	32.590	PK

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

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

Site: AC1	Time: 2017/12/16 - 15:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz, Ant 0 + 1 + 2 + 3	

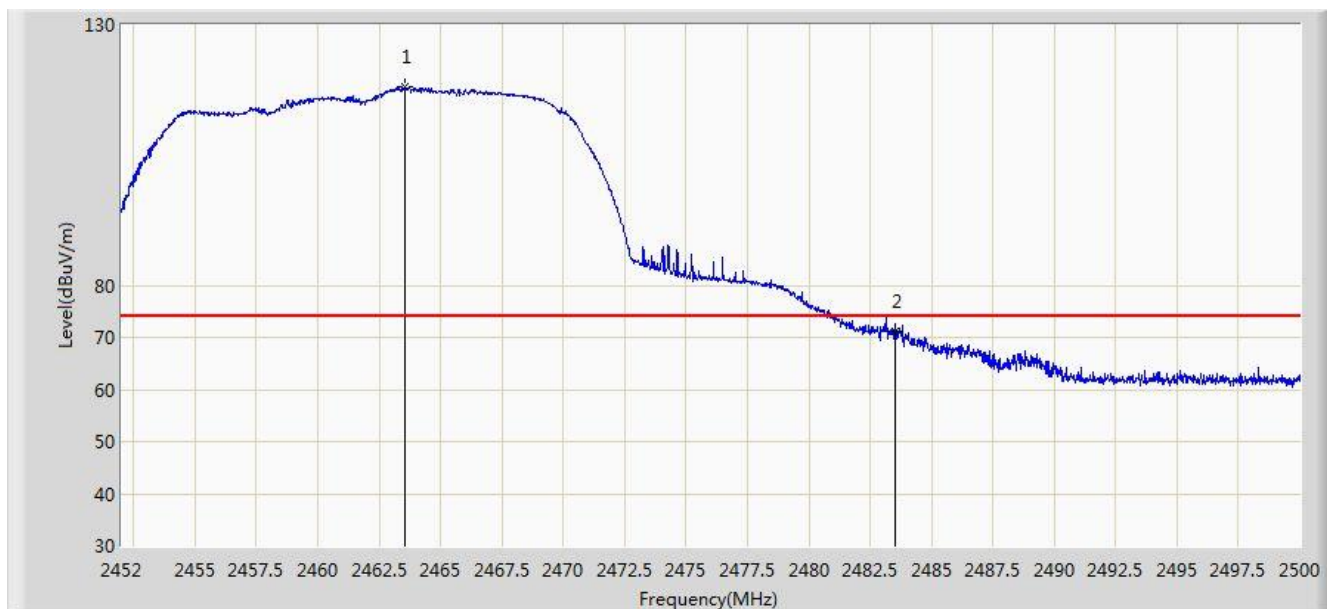


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.104	98.499	65.988	N/A	N/A	32.511	AV
2			2483.500	46.827	14.246	-7.173	54.000	32.580	AV
2			2484.976	47.414	14.829	-6.586	54.000	32.585	AV

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

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

Site: AC1	Time: 2017/12/16 - 15:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz, Ant 0 + 1 + 2 + 3	

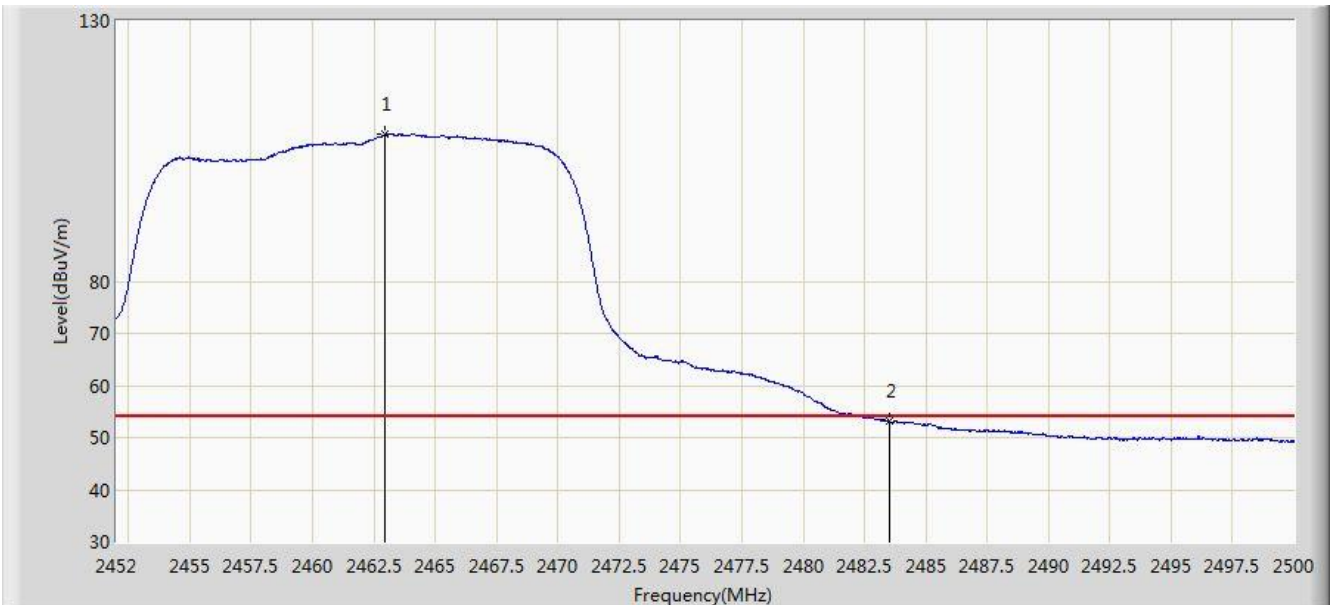


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.544	118.108	85.587	N/A	N/A	32.521	PK
2			2483.500	71.193	38.612	-2.807	74.000	32.580	PK

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

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

Site: AC1	Time: 2017/12/16 - 15:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz, Ant 0 + 1 + 2 + 3	

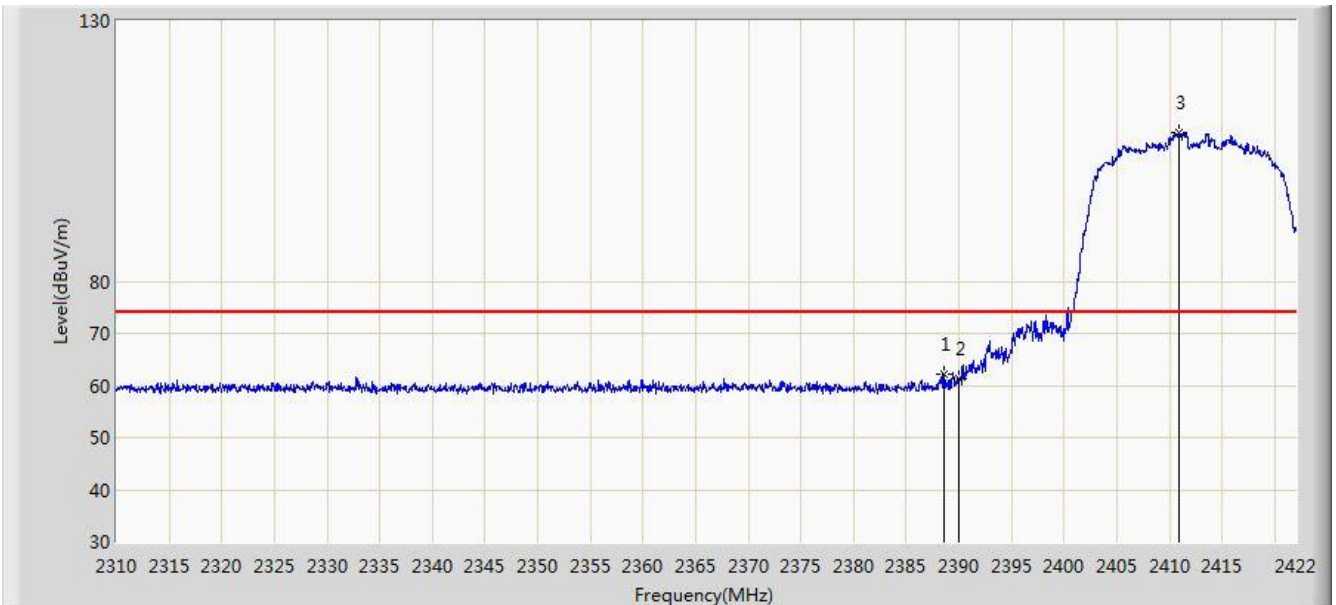


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.920	108.168	75.649	N/A	N/A	32.519	AV
2			2483.500	53.085	20.504	-0.915	54.000	32.580	AV

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

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

Site: AC1	Time: 2017/12/21 - 05:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 0 + 1 + 2 + 3	

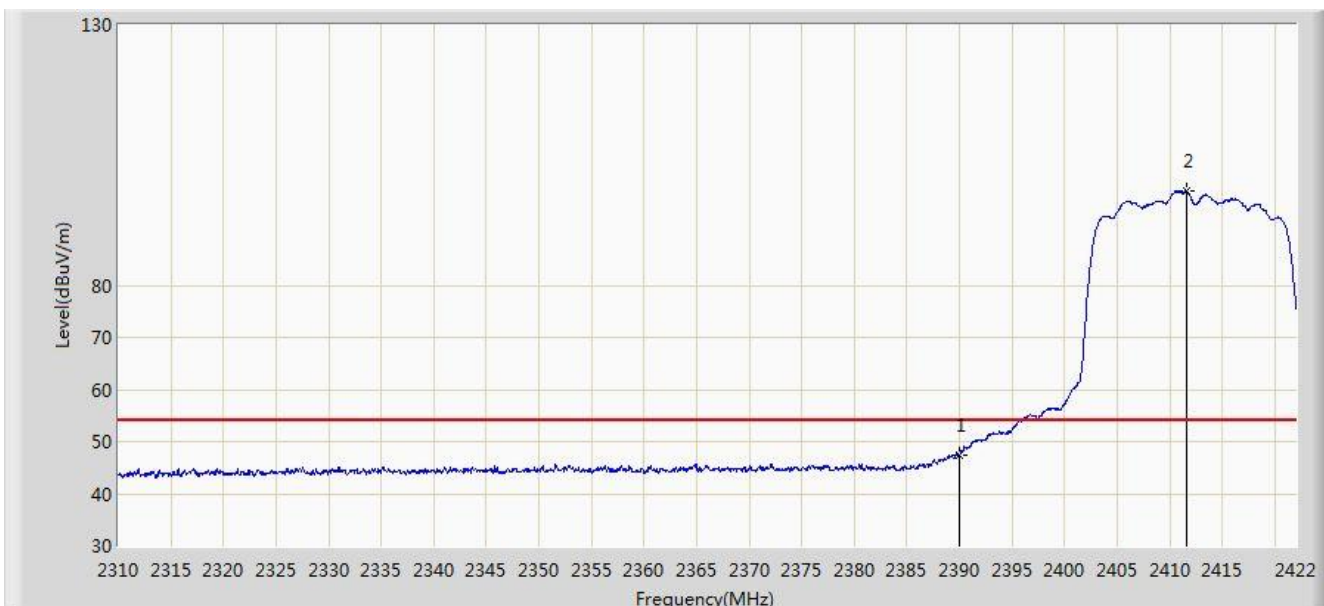


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.624	62.219	29.663	-11.781	74.000	32.556	PK
2			2390.000	61.263	28.709	-12.737	74.000	32.554	PK
3		*	2410.968	108.610	76.083	N/A	N/A	32.527	PK

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

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

Site: AC1	Time: 2017/12/21 - 05:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 0 + 1 + 2 + 3	

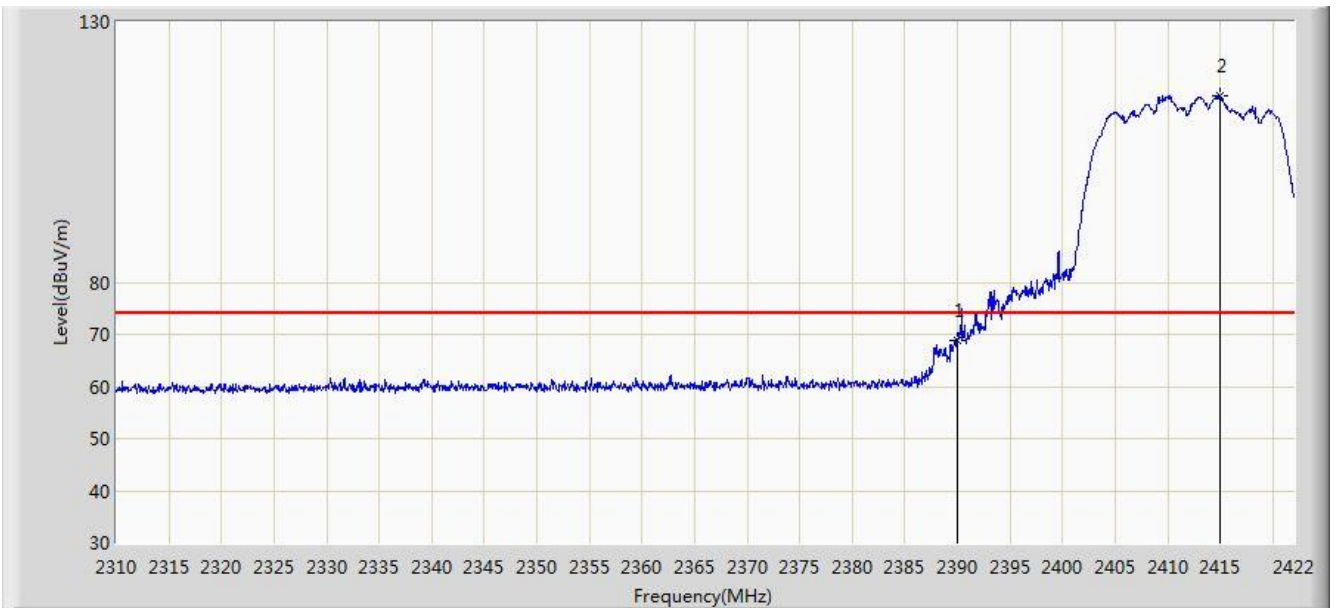


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	47.452	14.898	-6.548	54.000	32.554	AV
2		*	2411.640	98.056	65.530	N/A	N/A	32.526	AV

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

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

Site: AC1	Time: 2017/12/21 - 05:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 0 + 1 + 2 + 3	

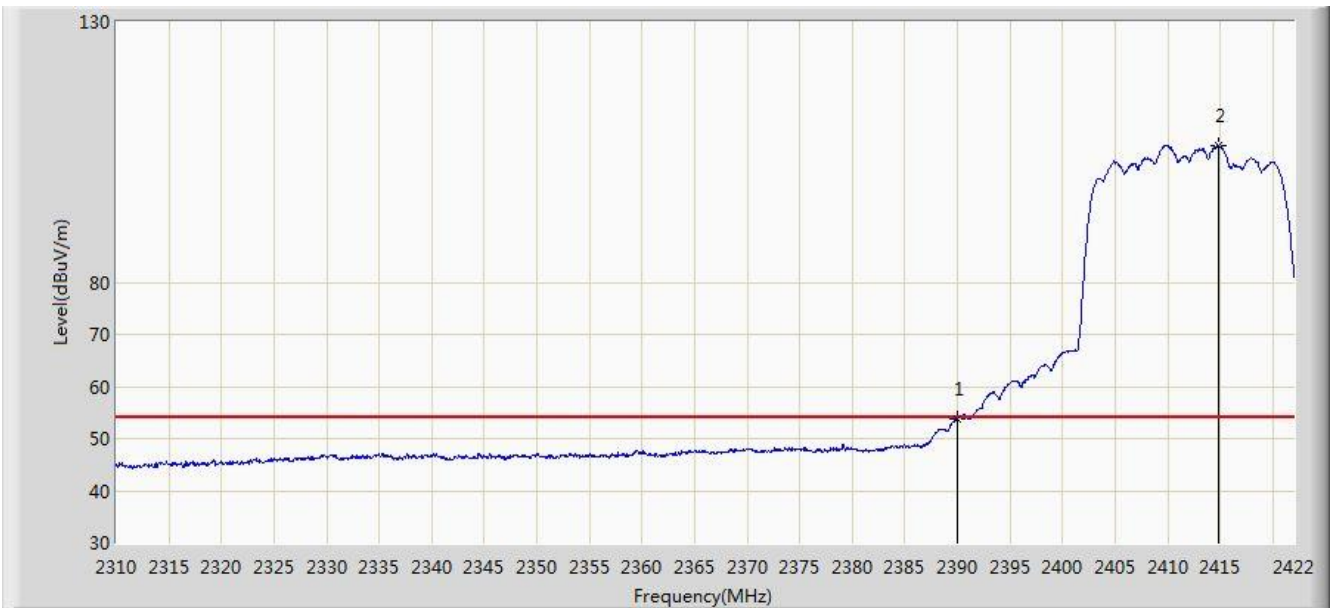


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	68.748	36.194	-5.252	74.000	32.554	PK
2		*	2415.000	115.656	83.134	N/A	N/A	32.522	PK

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

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

Site: AC1	Time: 2017/12/21 - 05:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 0 + 1 + 2 + 3	

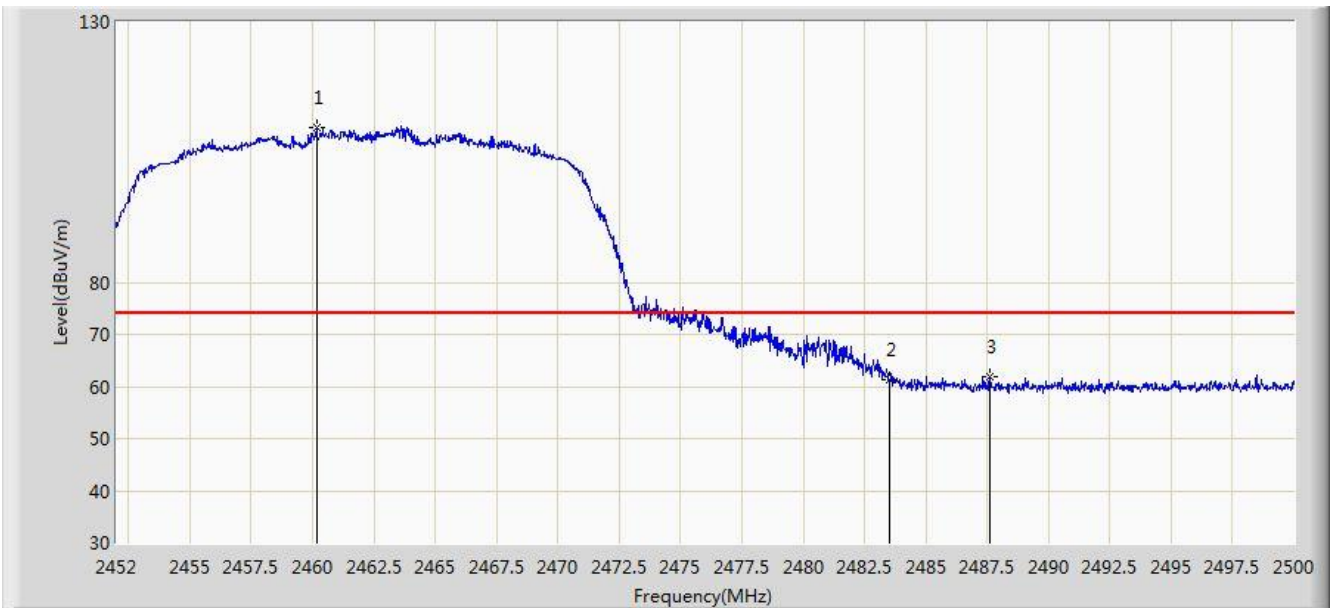


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.839	21.285	-0.161	54.000	32.554	AV
2		*	2414.776	106.304	73.782	N/A	N/A	32.522	AV

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

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

Site: AC1	Time: 2017/12/21 - 06:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
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		*	2460.160	109.628	77.115	N/A	N/A	32.513	PK
2			2483.500	61.191	28.610	-12.809	74.000	32.580	PK
3			2487.616	62.007	29.414	-11.993	74.000	32.593	PK

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

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

Site: AC1	Time: 2017/12/21 - 06:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
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		*	2463.328	98.825	66.305	N/A	N/A	32.520	AV
2			2483.500	48.750	16.169	-5.250	54.000	32.580	AV

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

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

Site: AC1	Time: 2017/12/21 - 06:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
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		*	2460.256	117.812	85.299	N/A	N/A	32.513	PK
2			2483.500	71.094	38.513	-2.906	74.000	32.580	PK

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

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

Site: AC1	Time: 2017/12/21 - 06:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz, Ant 0 + 1 + 2 + 3	

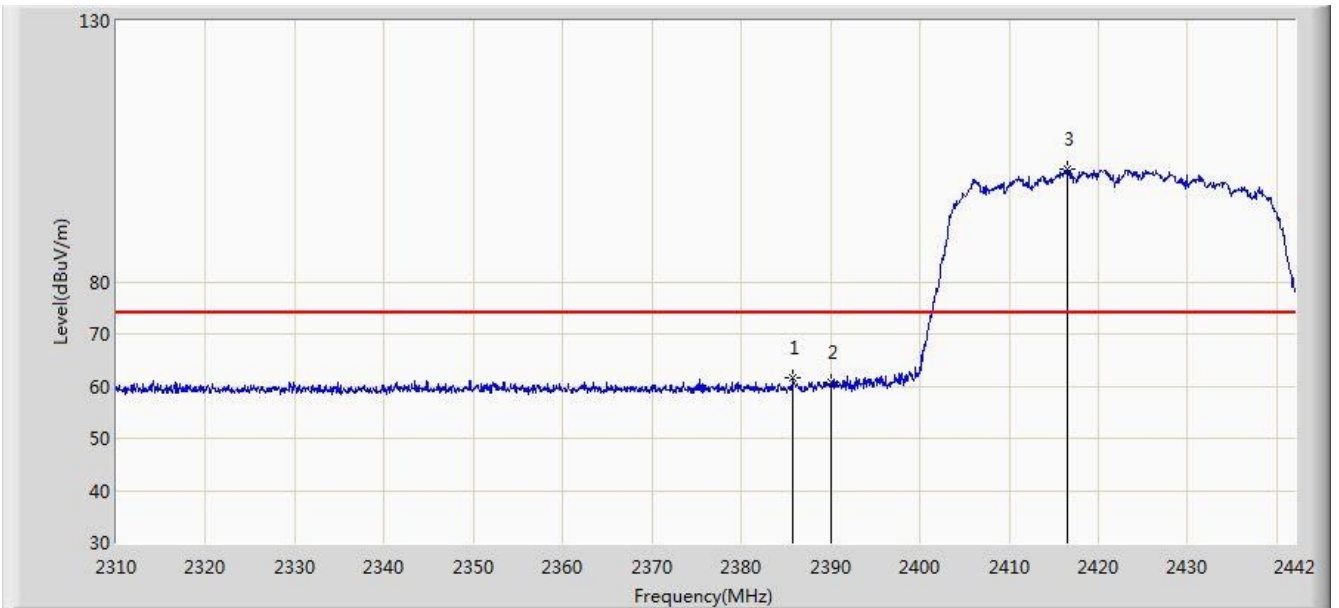


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.040	108.170	75.657	N/A	N/A	32.513	AV
2			2483.500	53.699	21.118	-0.301	54.000	32.580	AV
3			2484.664	53.800	21.216	-0.200	54.000	32.584	AV

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

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

Site: AC1	Time: 2017/12/21 - 06:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz, Ant 0 + 1 + 2 + 3	

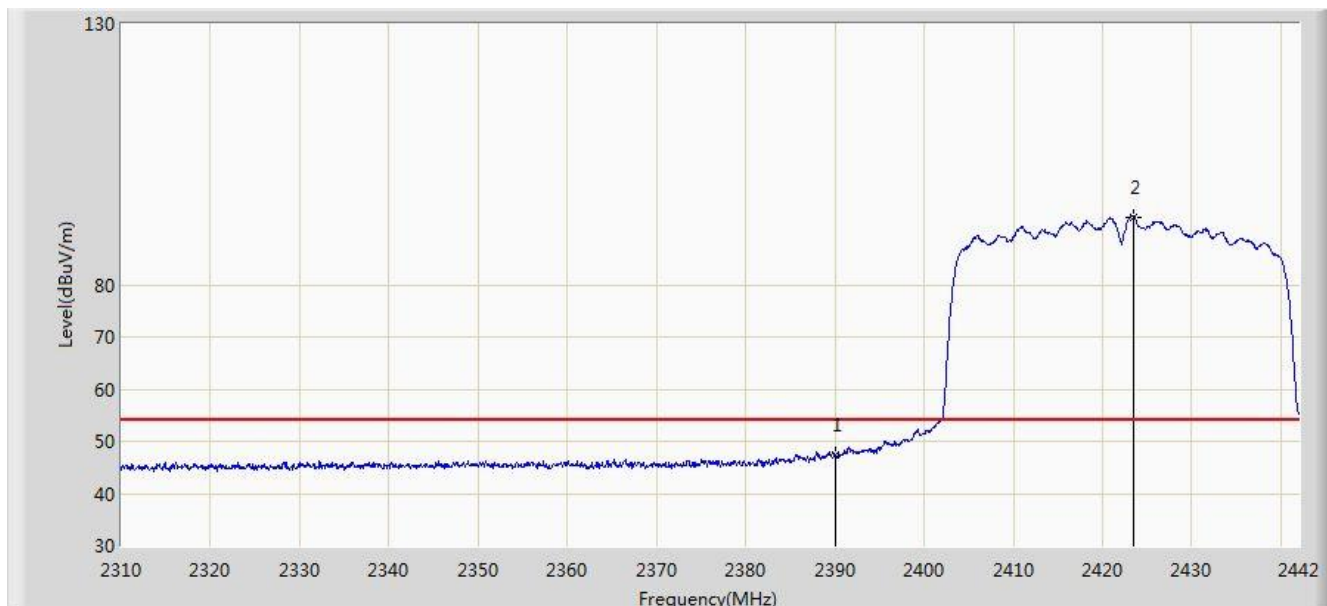


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.768	61.673	29.113	-12.327	74.000	32.560	PK
2			2390.000	60.620	28.066	-13.380	74.000	32.554	PK
3		*	2416.590	101.722	69.202	N/A	N/A	32.521	PK

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

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

Site: AC1	Time: 2017/12/21 - 06:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz, Ant 0 + 1 + 2 + 3	

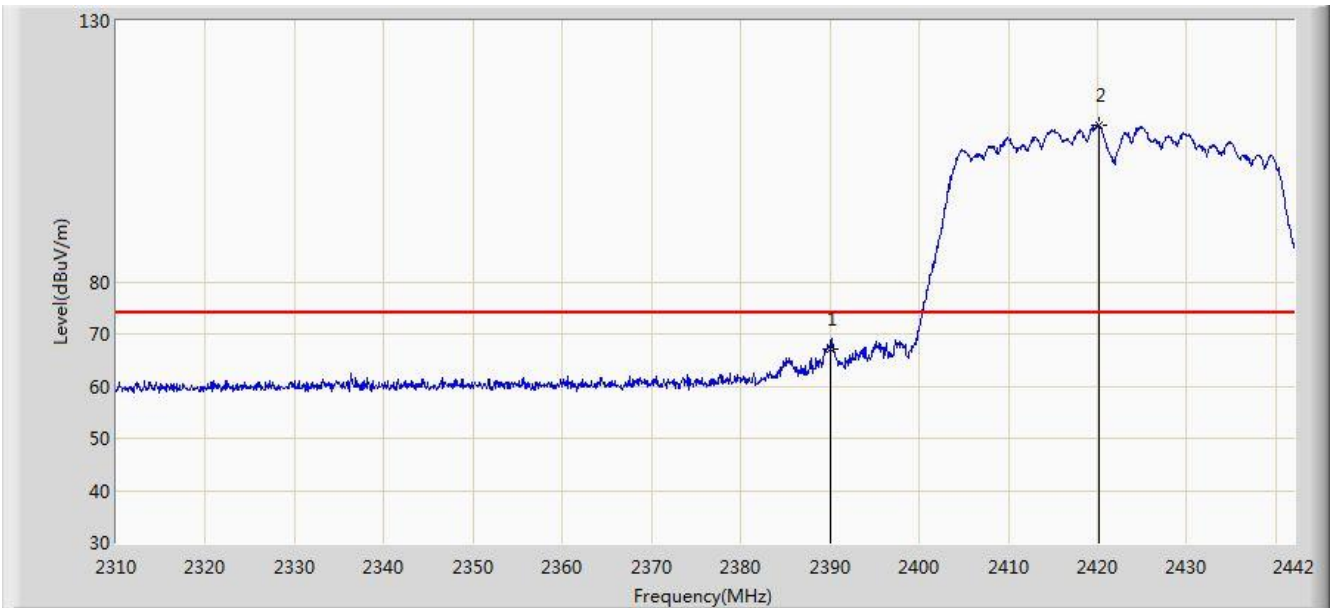


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	47.295	14.741	-6.705	54.000	32.554	AV
2		*	2423.454	93.038	60.526	N/A	N/A	32.512	AV

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

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

Site: AC1	Time: 2017/12/21 - 06:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz, Ant 0 + 1 + 2 + 3	

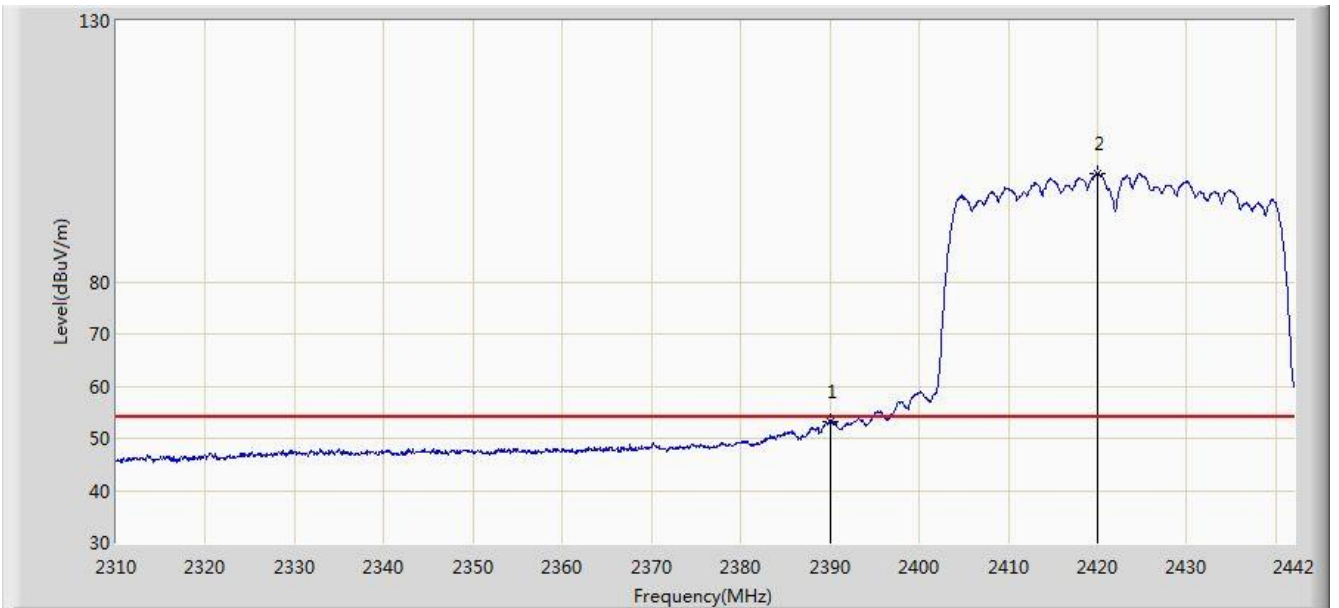


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	66.976	34.422	-7.024	74.000	32.554	PK
2		*	2420.154	110.004	77.488	N/A	N/A	32.516	PK

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

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

Site: AC1	Time: 2017/12/21 - 06:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz, Ant 0 + 1 + 2 + 3	

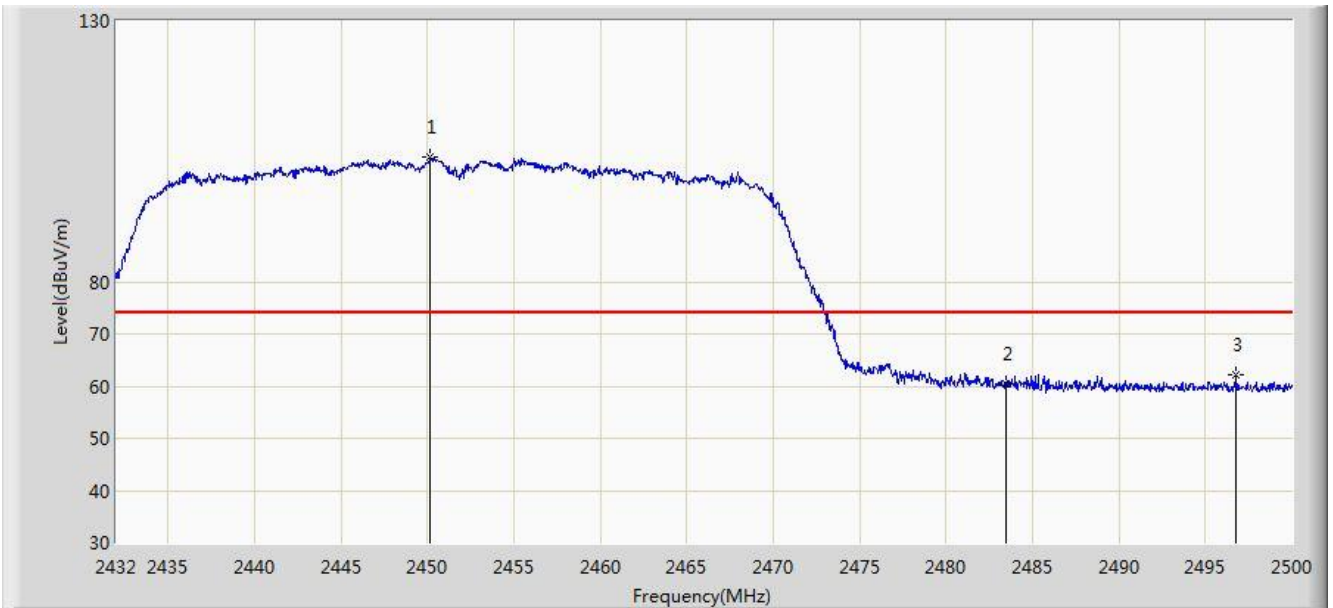


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.092	20.538	-0.908	54.000	32.554	AV
2		*	2419.956	100.692	68.176	N/A	N/A	32.516	AV

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

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

Site: AC1	Time: 2017/12/21 - 08:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz, Ant 0 + 1 + 2 + 3	

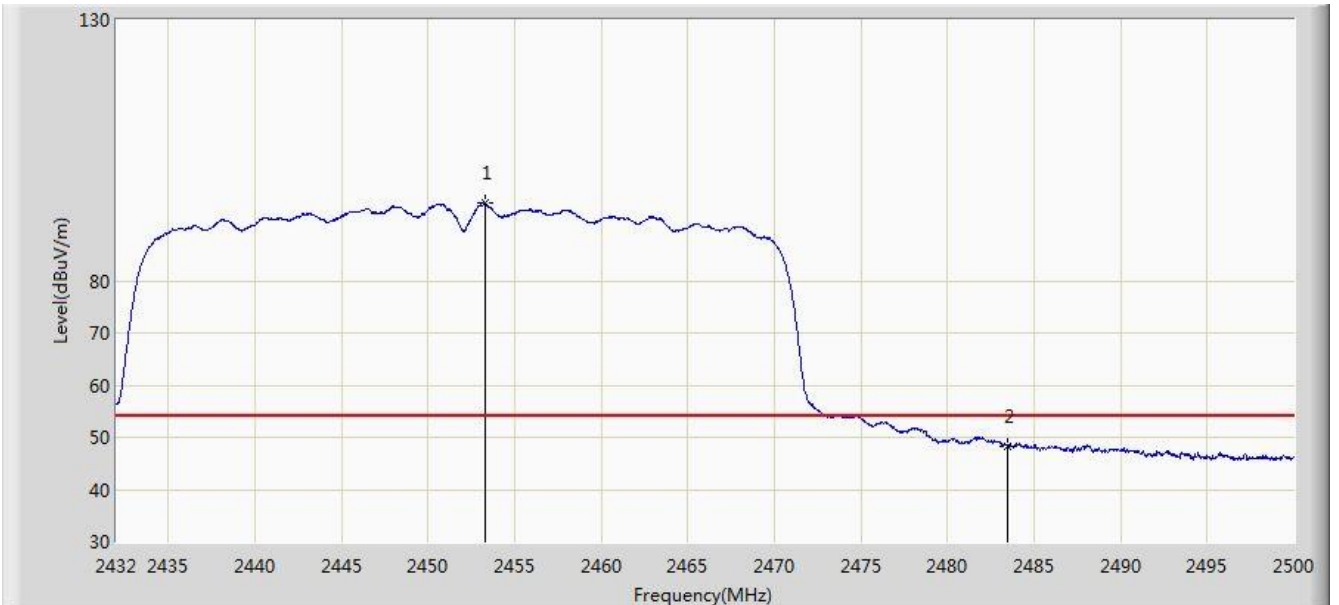


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2450.156	103.972	71.476	N/A	N/A	32.496	PK
2			2483.500	60.479	27.898	-13.521	74.000	32.580	PK
3			2496.804	62.057	29.437	-11.943	74.000	32.620	PK

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

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

Site: AC1	Time: 2017/12/21 - 08:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz, Ant 0 + 1 + 2 + 3	

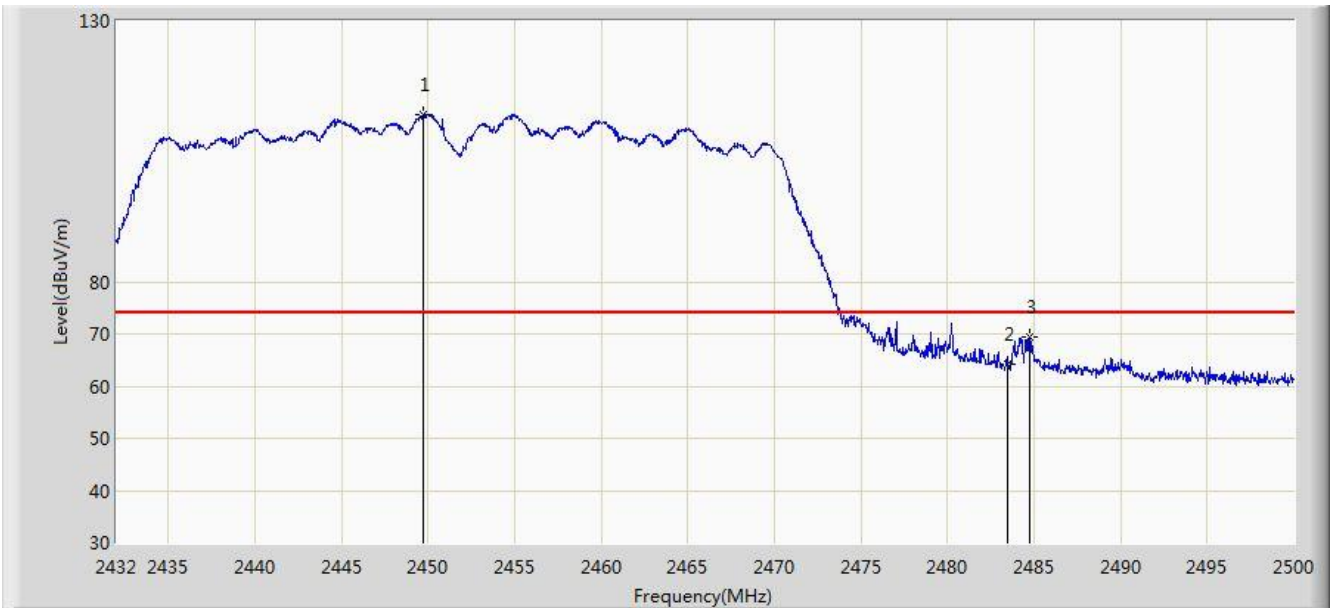


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2453.318	94.798	62.297	N/A	N/A	32.501	AV
2			2483.500	48.345	15.764	-5.655	54.000	32.580	AV

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

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

Site: AC1	Time: 2017/12/21 - 08:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz, Ant 0 + 1 + 2 + 3	

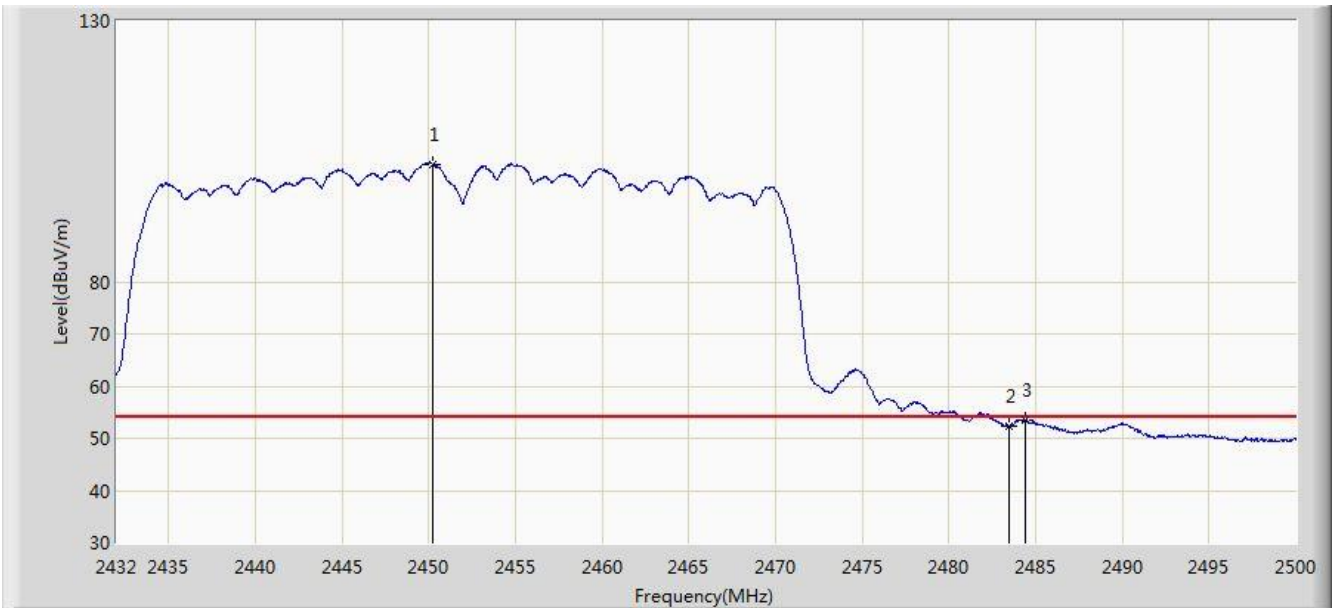


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2449.714	112.011	79.516	N/A	N/A	32.495	PK
2			2483.500	64.324	31.743	-9.676	74.000	32.580	PK
3			2484.768	69.526	36.942	-4.474	74.000	32.585	PK

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

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

Site: AC1	Time: 2017/12/21 - 08:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2452 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		*	2450.156	102.645	70.149	N/A	N/A	32.496	AV
2			2483.500	52.415	19.834	-1.585	54.000	32.580	AV
3			2484.428	53.457	20.874	-0.543	54.000	32.583	AV

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

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

5.7. 佔用頻道寬度

5.7.1. 適用標準

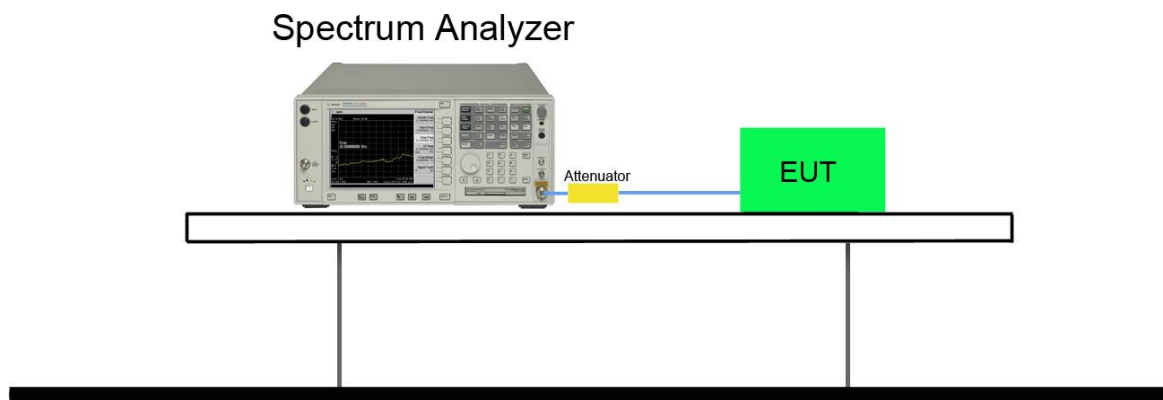
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6(2)(A)節之要求，6dB 頻寬至少應有 500kHz。

5.7.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀 RF 輸入端，設定頻譜分析儀之解析度頻寬為 100kHz，視訊頻寬不小於解析度頻寬，頻率掃瞄範圍(SPAN)遠大於解析度頻寬。

待測物應在正常發射狀態下量測。

5.7.3. 測試架構圖



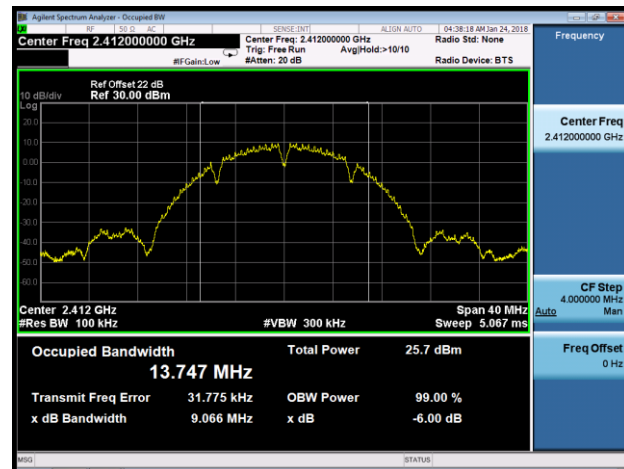
5.7.4. 佔用頻帶寬度測試結果

Product	AC2300 Wireless MU-MIMO Gigabit Router	Temperature	23°C
Test Engineer	Kevin Ker	Relative Humidity	54%
Test Site	SR2	Test Date	2018/01/24

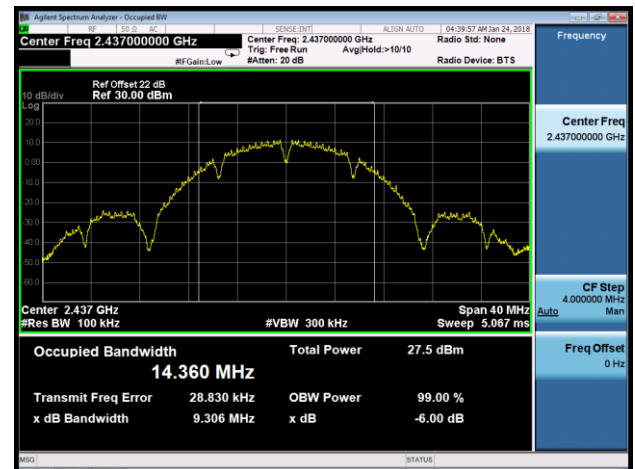
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0 / Ant 0 + 1 + 2 + 3						
802.11b	1Mbps	01	2412	9.07	≥ 0.5	Pass
802.11b	1Mbps	06	2437	9.31	≥ 0.5	Pass
802.11b	1Mbps	11	2462	9.03	≥ 0.5	Pass
802.11g	6Mbps	01	2412	15.11	≥ 0.5	Pass
802.11g	6Mbps	06	2437	15.12	≥ 0.5	Pass
802.11g	6Mbps	11	2462	15.12	≥ 0.5	Pass
802.11n-HT20	MCS0	01	2412	15.12	≥ 0.5	Pass
802.11n-HT20	MCS0	06	2437	15.12	≥ 0.5	Pass
802.11n-HT20	MCS0	11	2462	15.13	≥ 0.5	Pass
802.11n-HT40	MCS0	03	2422	35.09	≥ 0.5	Pass
802.11n-HT40	MCS0	06	2437	35.08	≥ 0.5	Pass
802.11n-HT40	MCS0	09	2452	35.08	≥ 0.5	Pass

802.11b 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

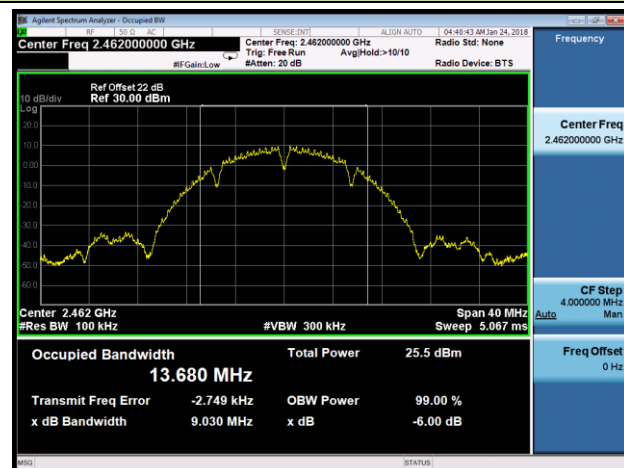
Channel 01 (2412MHz)



Channel 06 (2437MHz)

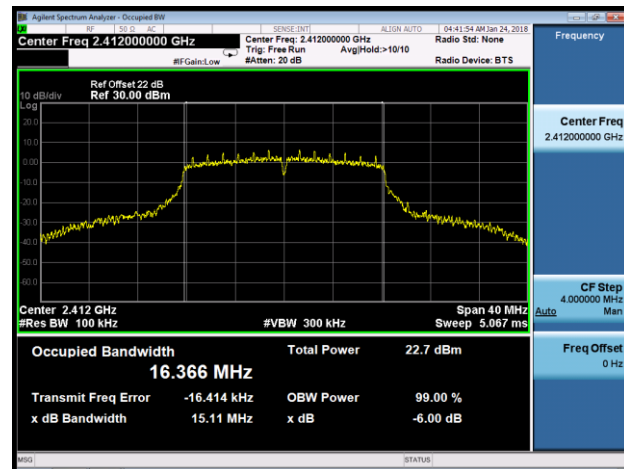


Channel 11 (2462MHz)

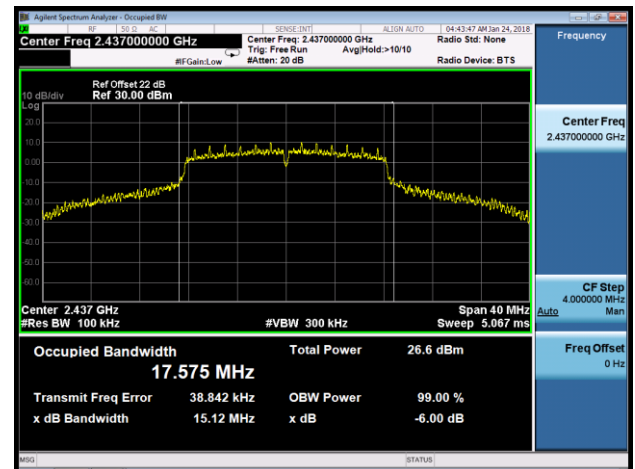


802.11g 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

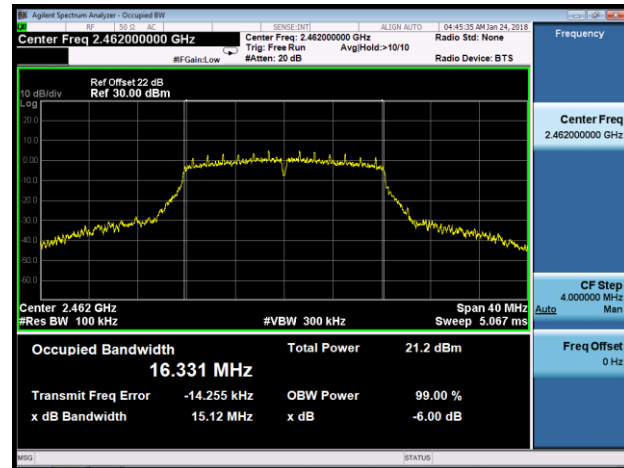
Channel 01 (2412MHz)



Channel 06 (2437MHz)

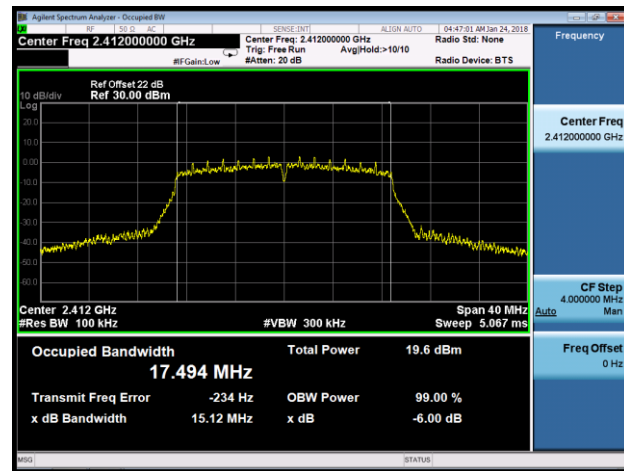


Channel 11 (2462MHz)

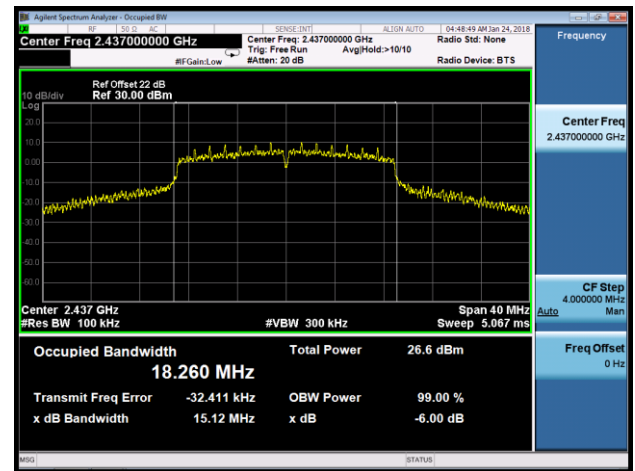


802.11n-HT20 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

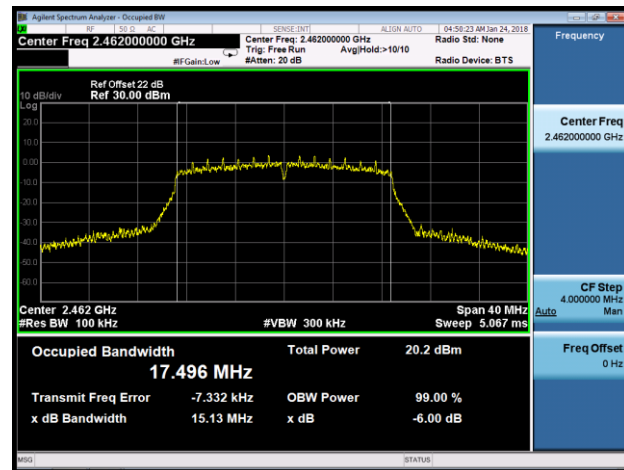
Channel 01 (2412MHz)



Channel 06 (2437MHz)

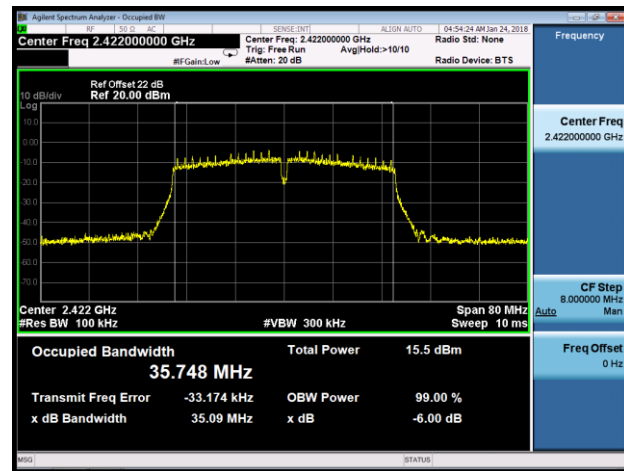


Channel 11 (2462MHz)

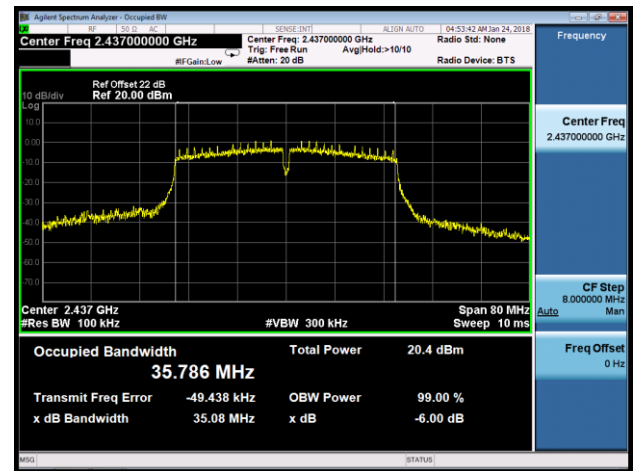


802.11n-HT40 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

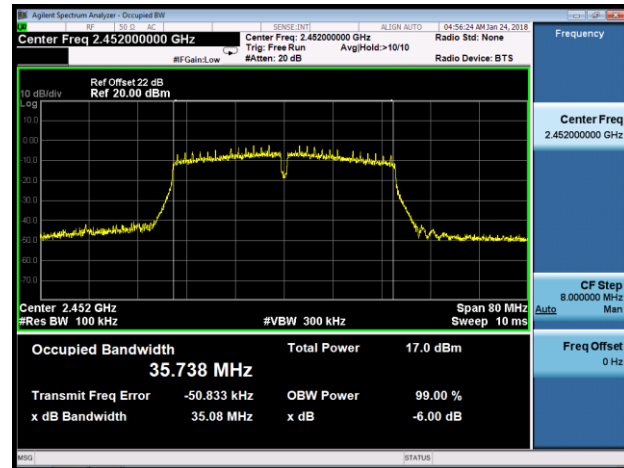
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



5.8. 發射電功率密度

5.8.1. 適用標準

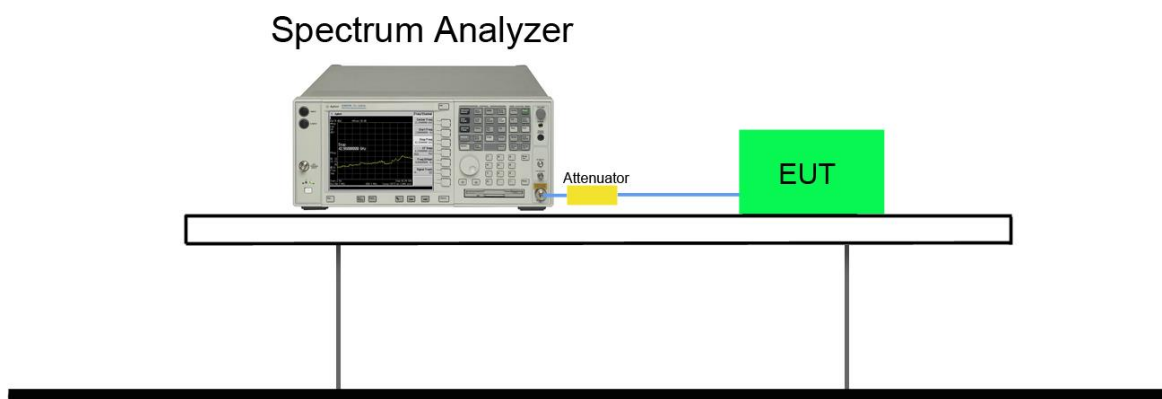
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6(2)(B)節，在使用頻率範圍之任意 3 千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

5.8.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀 RF 輸入端。找出發射峰值並擴展於通帶內，設定頻譜分析儀之解析度頻寬為 3kHz，視訊頻寬大於解析度頻寬，掃瞄時間為頻率掃瞄範圍除以 3kHz。
($\text{SWEEP TIME} = \text{SPAN}/3\text{kHz}$)。

待測物應在正常發射狀態下量測。

5.8.3. 測試架構圖



5.8.4. 功率密度量測結果

Product	AC2300 Wireless MU-MIMO Gigabit Router	Temperature	23°C
Test Engineer	Kevin Ker	Relative Humidity	54%
Test Site	SR2	Test Date	2018/01/24
Test Item	Power Spectral Density		

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Ant 0 AVGPSD (dBm / 10kHz)	Ant 1 AVGPSD (dBm / 10kHz)	Ant 2 AVGPSD (dBm / 10kHz)	Ant 3 AVGPSD (dBm / 10kHz)	Duty Cycle (%)	Constant Factor	Total AVGPSD (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
11b	1Mbps	01	2412	-6.34	-6.91	-7.19	-7.01	99.17	-5.23	-6.06	≤ 6.98	Pass
11b	1Mbps	06	2437	-5.24	-5.52	-5.59	-5.67	99.17	-5.23	-4.71	≤ 6.98	Pass
11b	1Mbps	11	2462	-7.17	-7.01	-7.06	-6.91	99.17	-5.23	-6.24	≤ 6.98	Pass
11g	6Mbps	01	2412	-11.36	-11.21	-11.10	-10.15	96.27	-5.23	-9.97	≤ 6.98	Pass
11g	6Mbps	06	2437	-7.86	-7.83	-8.14	-7.75	96.27	-5.23	-6.94	≤ 6.98	Pass
11g	6Mbps	11	2462	-12.86	-12.65	-12.83	-13.12	96.27	-5.23	-11.91	≤ 6.98	Pass
11n-HT20	MCS0	01	2412	-14.53	-14.05	-14.15	-13.75	95.88	-5.23	-13.14	≤ 6.98	Pass
11n-HT20	MCS0	06	2437	-7.64	-7.82	-8.09	-8.03	95.88	-5.23	-6.92	≤ 6.98	Pass
11n-HT20	MCS0	11	2462	-13.36	-12.80	-13.17	-13.56	95.88	-5.23	-12.24	≤ 6.98	Pass
11n-HT40	MCS0	03	2422	-20.65	-20.42	-20.41	-20.56	92.03	-5.23	-19.36	≤ 6.98	Pass
11n-HT40	MCS0	06	2437	-15.99	-15.66	-15.05	-15.19	92.03	-5.23	-14.31	≤ 6.98	Pass
11n-HT40	MCS0	09	2452	-19.15	-18.90	-18.77	-19.14	92.03	-5.23	-17.84	≤ 6.98	Pass

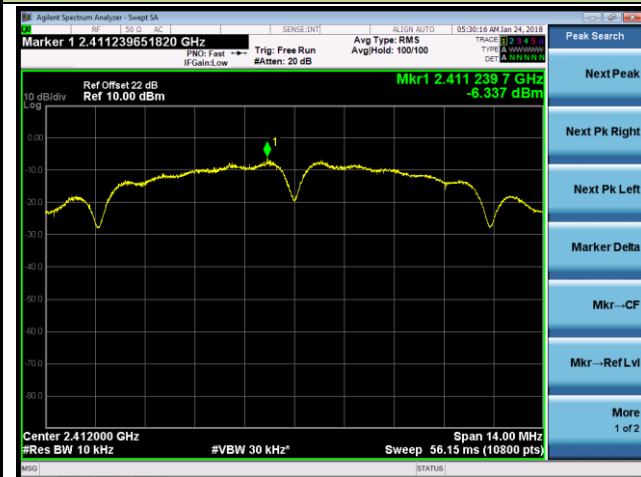
Note 1: When EUT duty cycle > 98%, the total AVGPSD = $10 \cdot \log\{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\} + \text{Constant Factor}$.

Note 2: When EUT duty cycle < 98%, the total AVGPSD = $10 \cdot \log\{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle}) + \text{Constant Factor}$.

Note 3: PSD Limit = 8 (dBm/3kHz) - [Directional Gain (dBi) - 6 (dBi)] = 6.98 (dBm/3kHz).

802.11b AVGPDS - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

