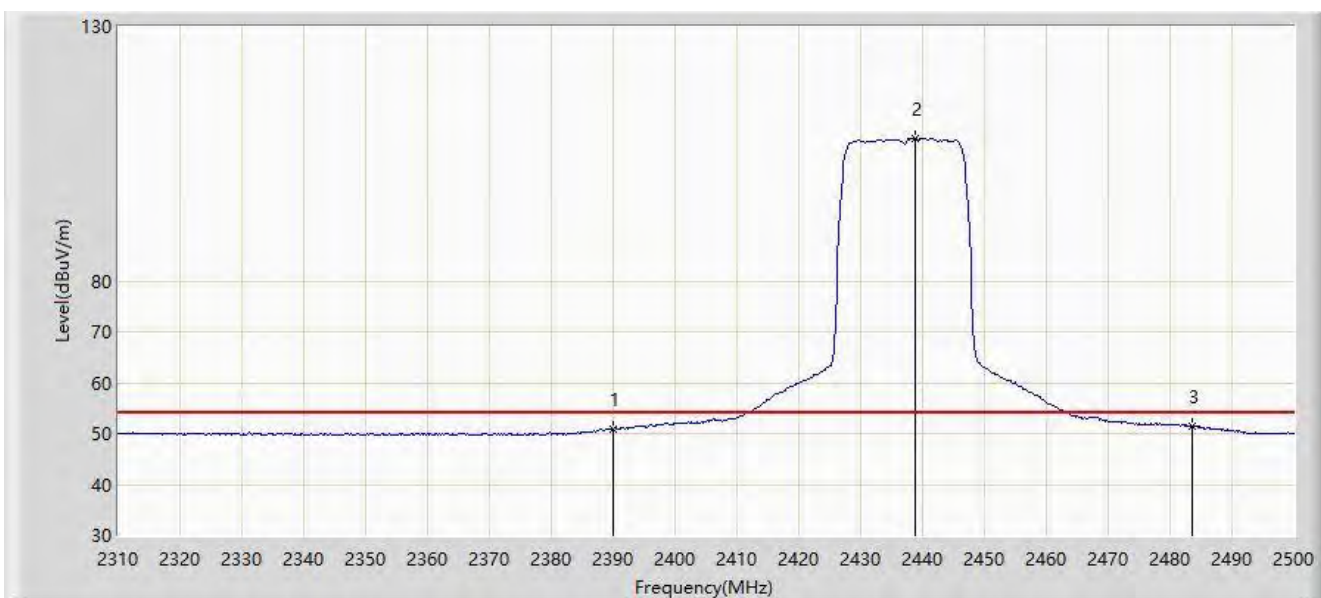


Site: AC1	Time: 2020/03/17 - 23:46
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11n-HT40 at Channel 2437MHz	

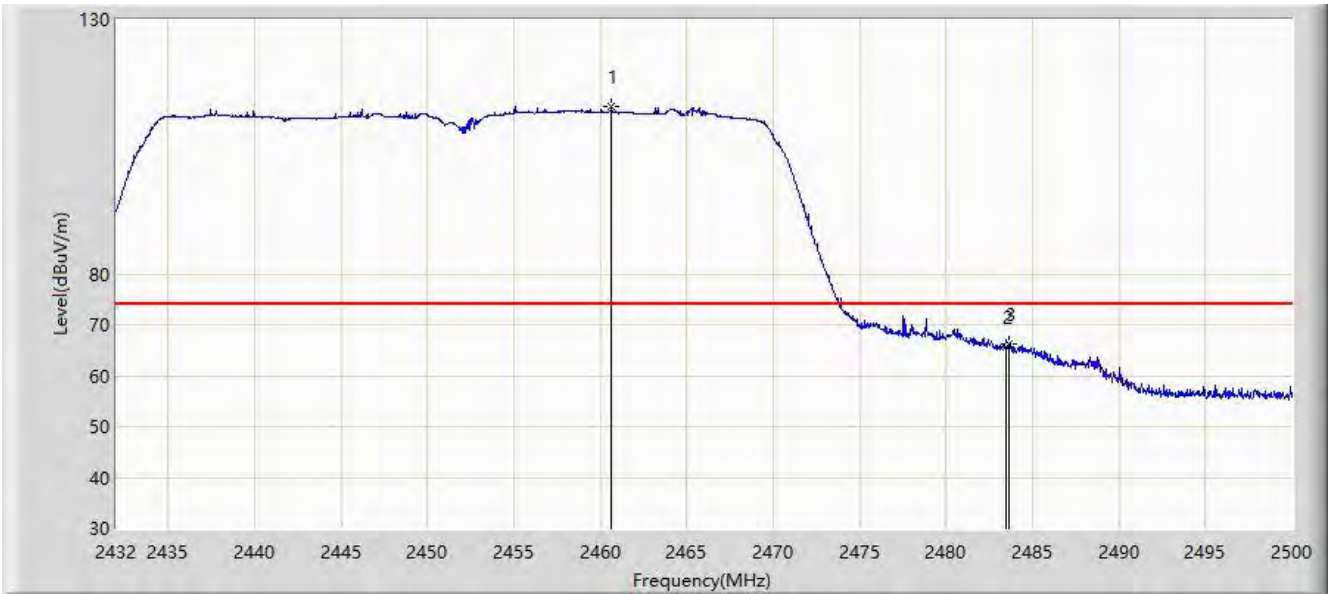


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	50.946	53.672	-3.054	54.000	-2.726	AV
2		*	2438.820	107.939	110.440	N/A	N/A	-2.501	AV
3			2483.500	51.495	53.791	-2.505	54.000	-2.296	AV

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

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

Site: AC1	Time: 2020/03/17 - 11:33
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

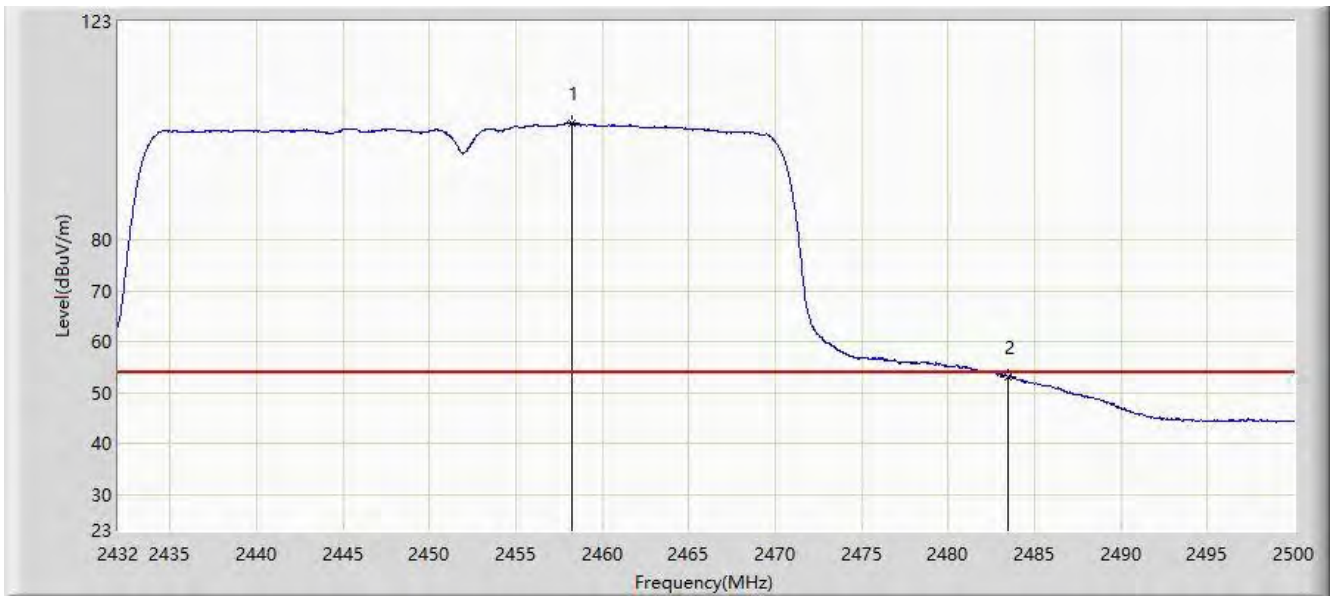


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.662	112.810	115.211	N/A	N/A	-2.401	PK
2			2483.500	65.762	68.058	-8.238	74.000	-2.296	PK
3			2483.680	66.365	68.660	-7.635	74.000	-2.294	PK

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

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

Site: AC1	Time: 2020/03/17 - 11:30
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

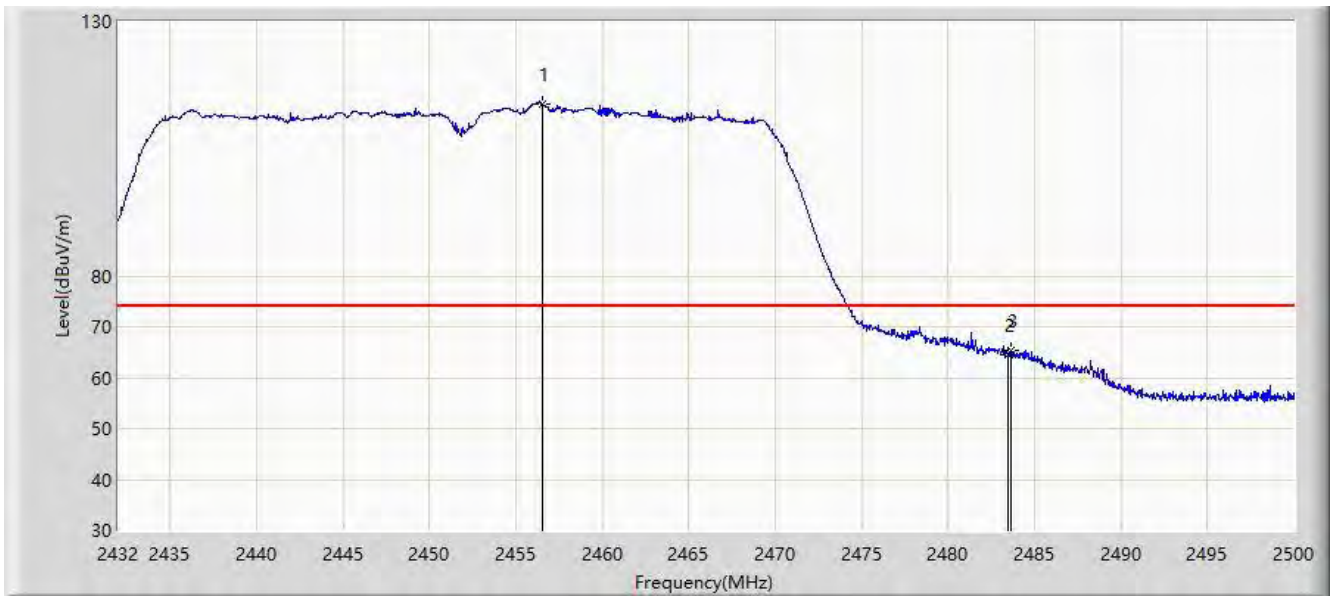


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.282	103.002	105.414	N/A	N/A	-2.412	AV
2			2483.500	53.216	55.512	-0.784	54.000	-2.296	AV

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

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

Site: AC1	Time: 2020/03/17 - 11:37
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

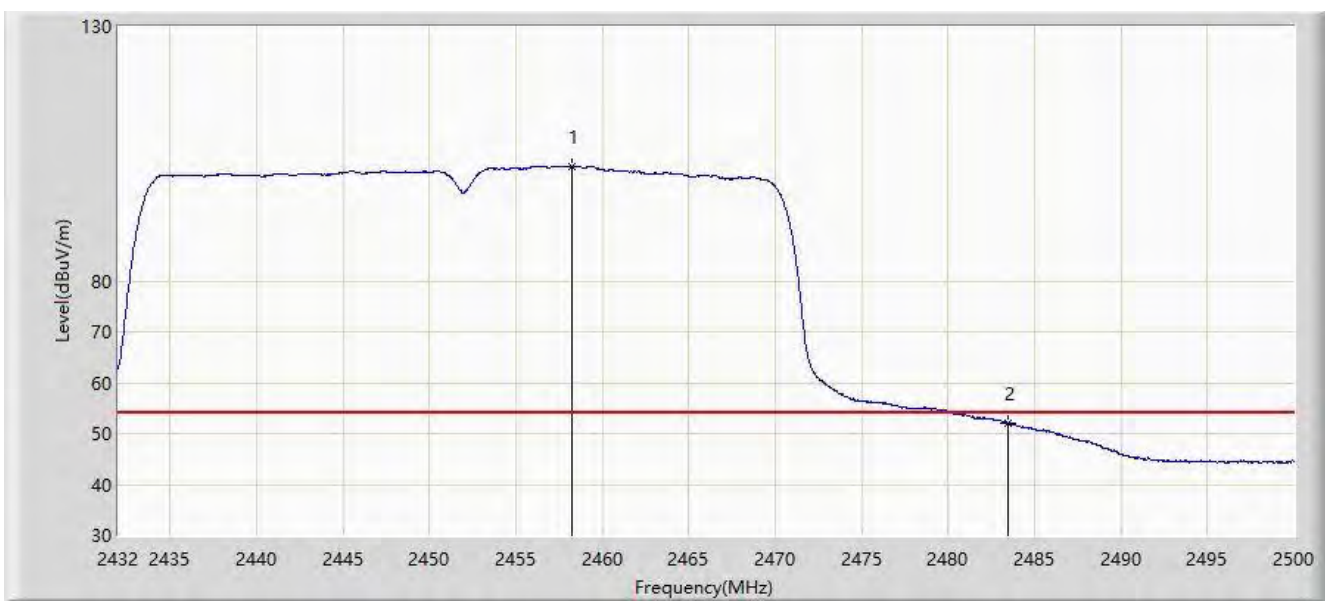


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2456.514	113.800	116.220	N/A	N/A	-2.420	PK
2			2483.500	64.416	66.712	-9.584	74.000	-2.296	PK
3			2483.646	65.383	67.678	-8.617	74.000	-2.294	PK

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

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

Site: AC1	Time: 2020/03/17 - 11:38
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

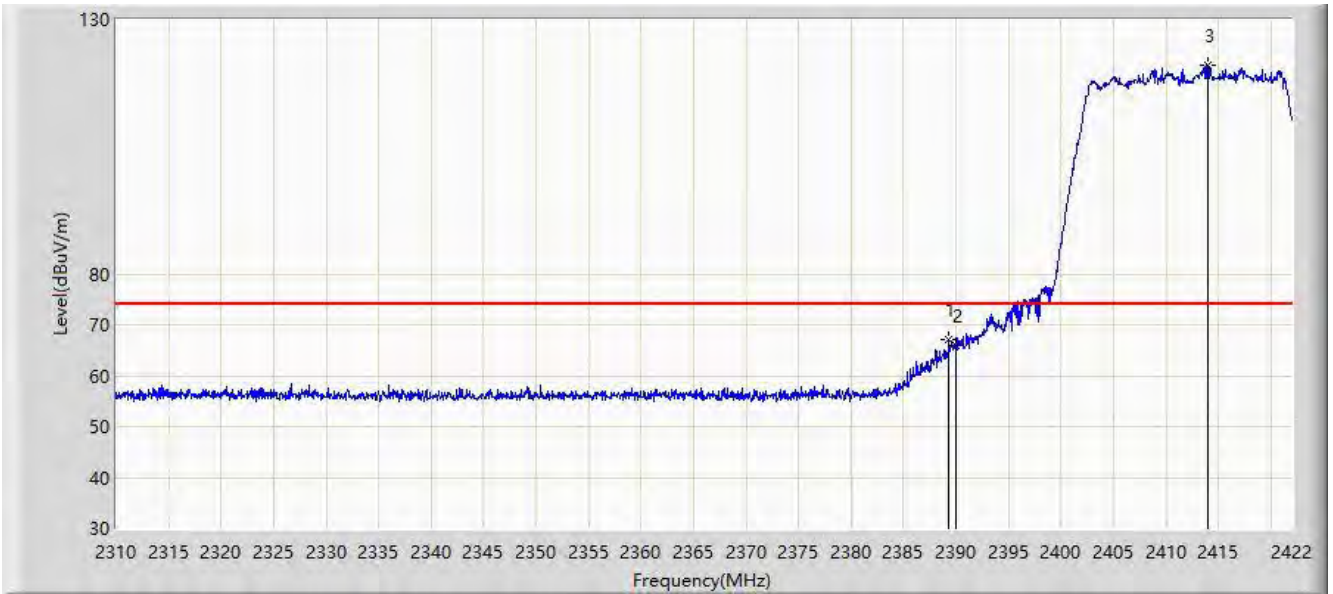


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.282	102.521	104.933	N/A	N/A	-2.412	AV
2			2483.500	51.920	54.216	-2.080	54.000	-2.296	AV

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

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

Site: AC1	Time: 2020/03/17 - 13:15
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2412MHz	

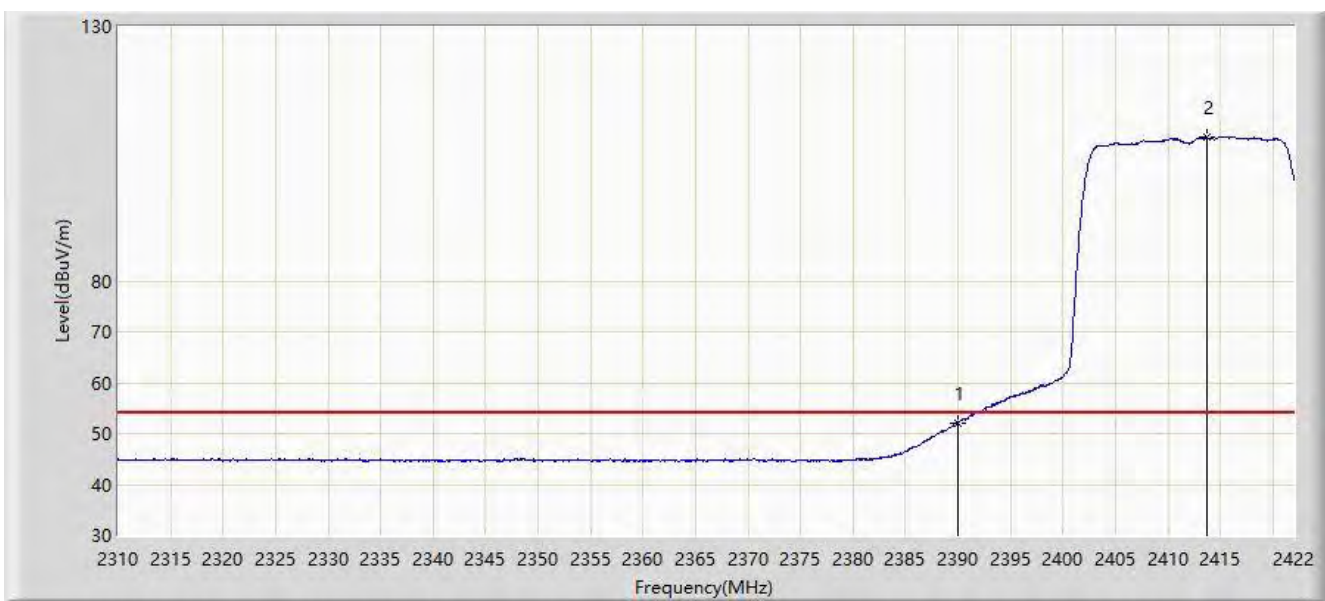


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.352	67.043	69.772	-6.957	74.000	-2.729	PK
2			2390.000	65.813	68.539	-8.187	74.000	-2.726	PK
3		*	2413.936	120.880	123.497	N/A	N/A	-2.617	PK

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

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

Site: AC1	Time: 2020/03/17 - 13:18
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2412MHz	

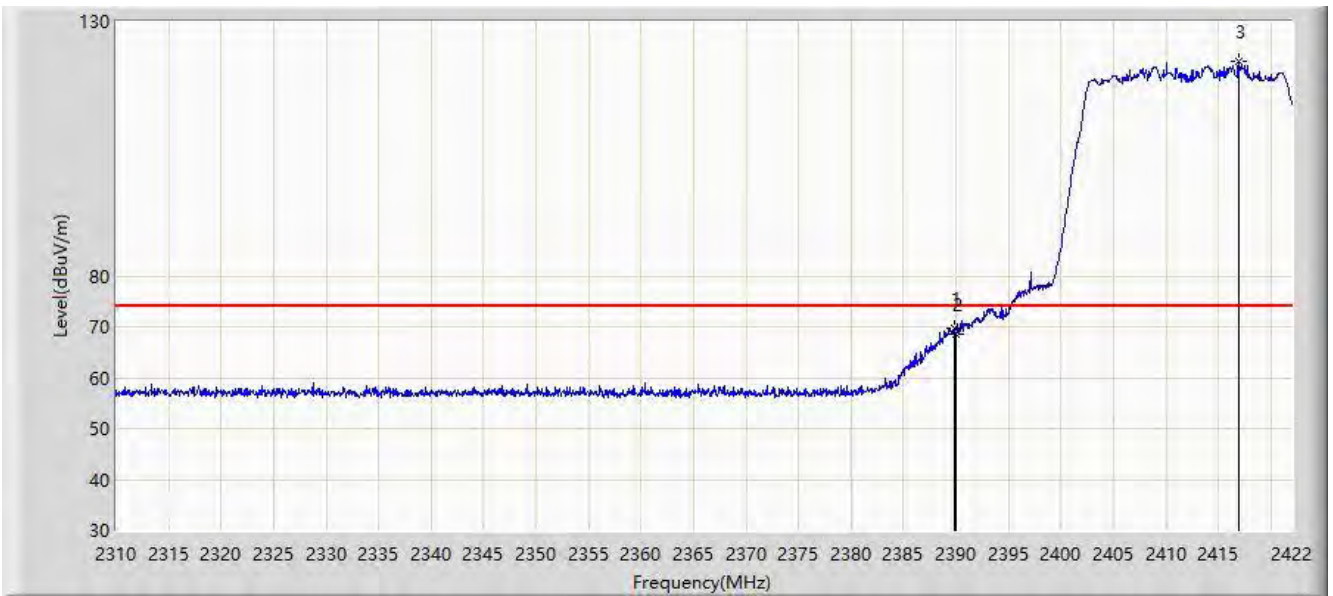


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.164	54.890	-1.836	54.000	-2.726	AV
2	X	*	2413.712	108.134	110.752	N/A	N/A	-2.618	AV

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

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

Site: AC1	Time: 2020/03/17 - 11:57
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2412MHz	

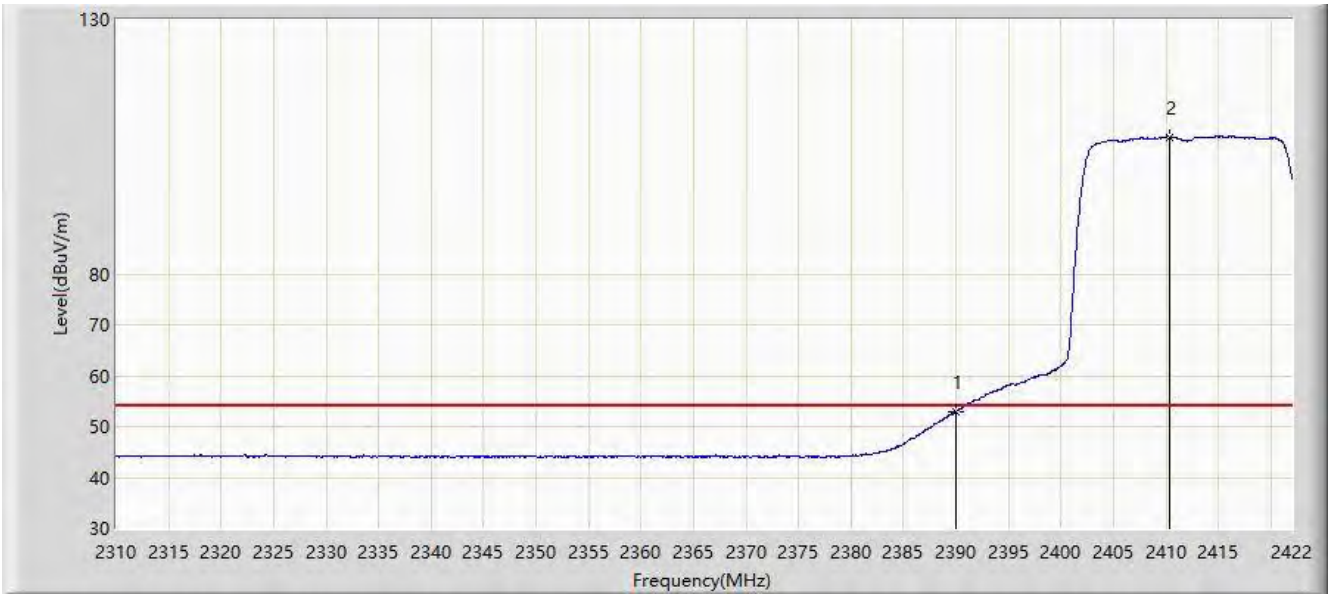


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.856	69.732	72.458	-4.268	74.000	-2.726	PK
2			2390.000	68.676	71.402	-5.324	74.000	-2.726	PK
3		*	2417.016	122.040	124.642	N/A	N/A	-2.602	PK

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

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

Site: AC1	Time: 2020/03/17 - 11:53
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2412MHz	

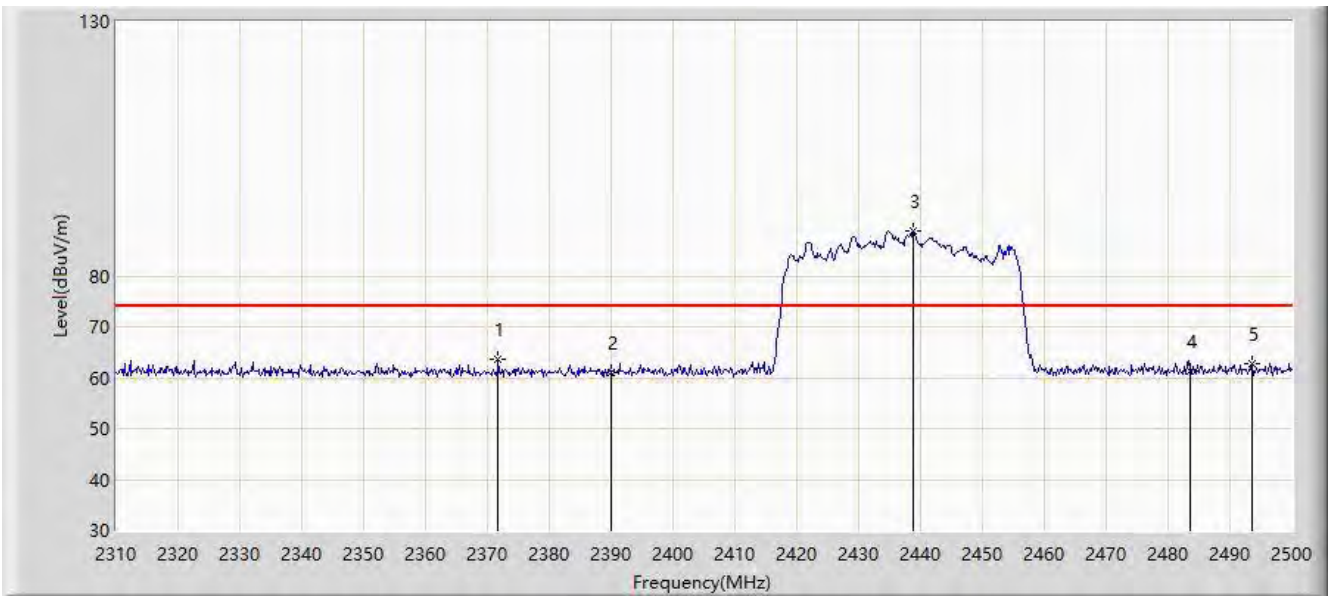


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.956	55.682	-1.044	54.000	-2.726	AV
2		*	2410.296	106.946	109.579	N/A	N/A	-2.633	AV

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

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

Site: AC1	Time: 2020/03/18 - 00:00
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2437MHz	

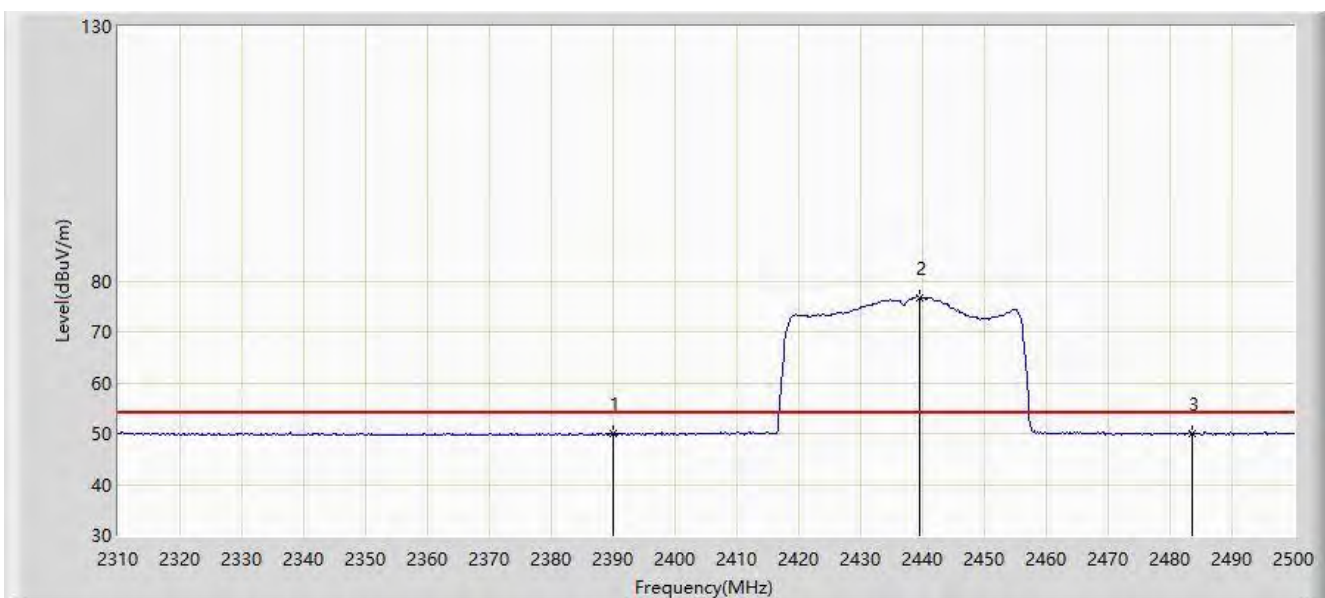


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2371.750	63.580	66.390	-10.420	74.000	-2.810	PK
2			2390.000	61.131	63.857	-12.869	74.000	-2.726	PK
3		*	2438.820	88.930	91.431	N/A	N/A	-2.501	PK
4			2483.500	61.262	63.558	-12.738	74.000	-2.296	PK
5			2493.540	62.770	65.020	-11.230	74.000	-2.250	PK

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

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

Site: AC1	Time: 2020/03/18 - 00:01
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2437MHz	

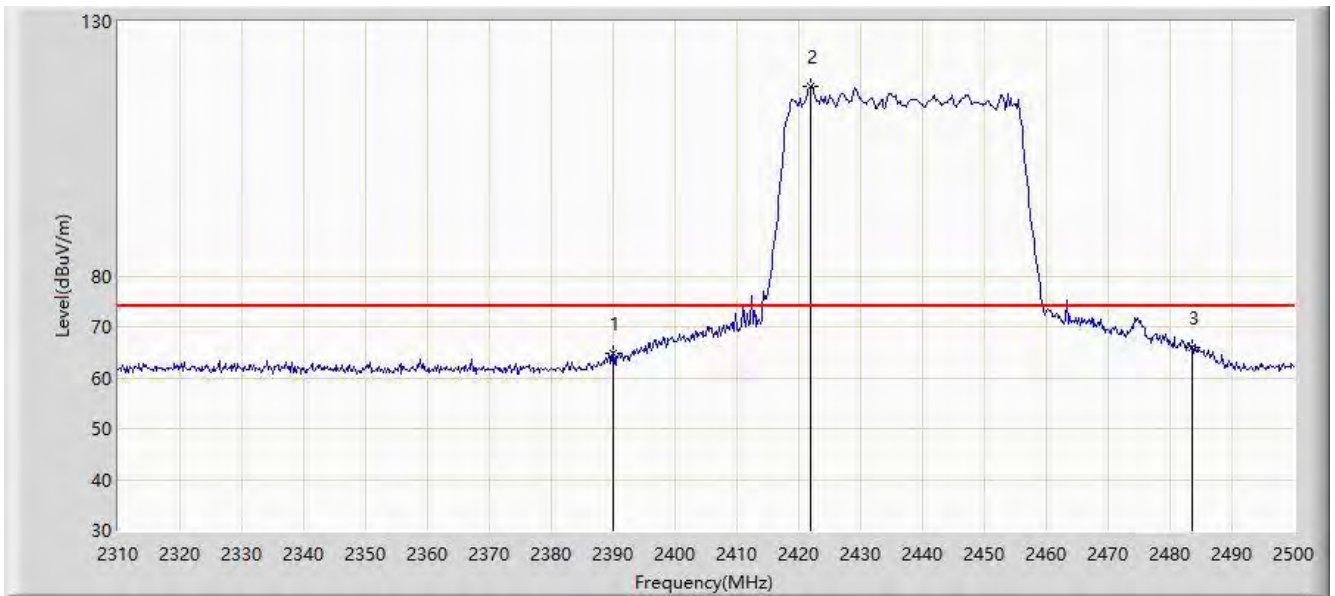


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	49.900	52.626	-4.100	54.000	-2.726	AV
2		*	2439.580	76.775	79.273	N/A	N/A	-2.497	AV
3			2483.500	50.016	52.312	-3.984	54.000	-2.296	AV

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

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

Site: AC1	Time: 2020/03/17 - 23:58
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2437MHz	

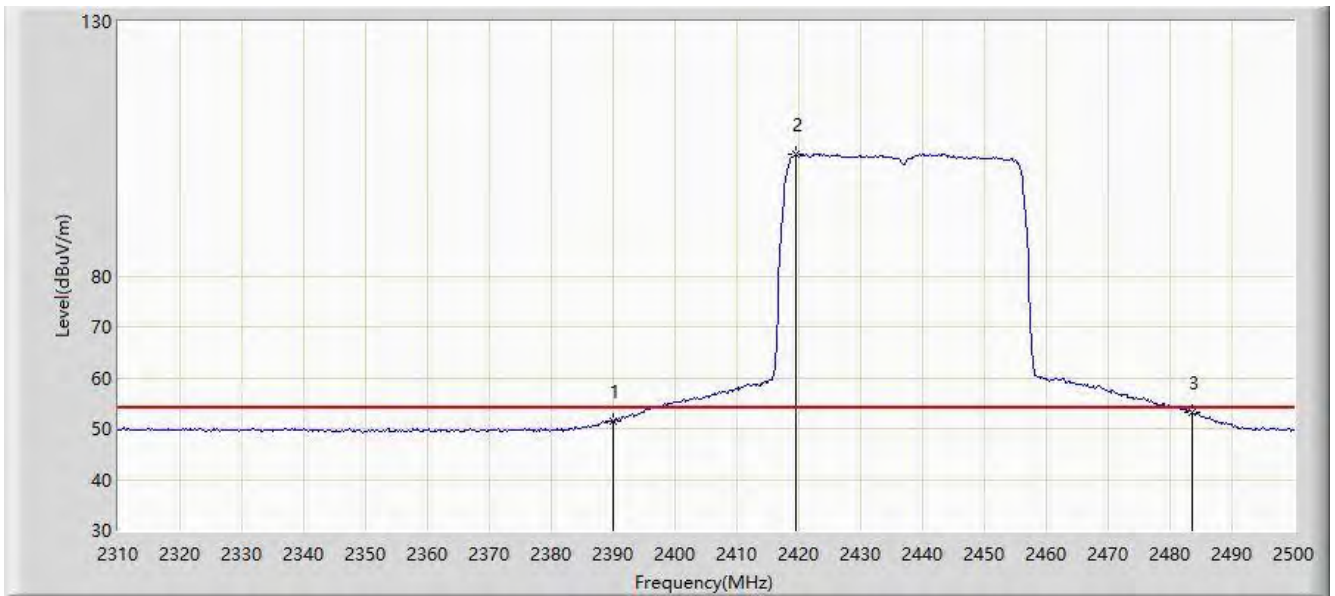


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	64.904	67.630	-9.096	74.000	-2.726	PK
2		*	2421.910	117.185	119.765	N/A	N/A	-2.580	PK
3			2483.500	66.013	68.309	-7.987	74.000	-2.296	PK

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

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

Site: AC1	Time: 2020/03/17 - 23:57
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2437MHz	

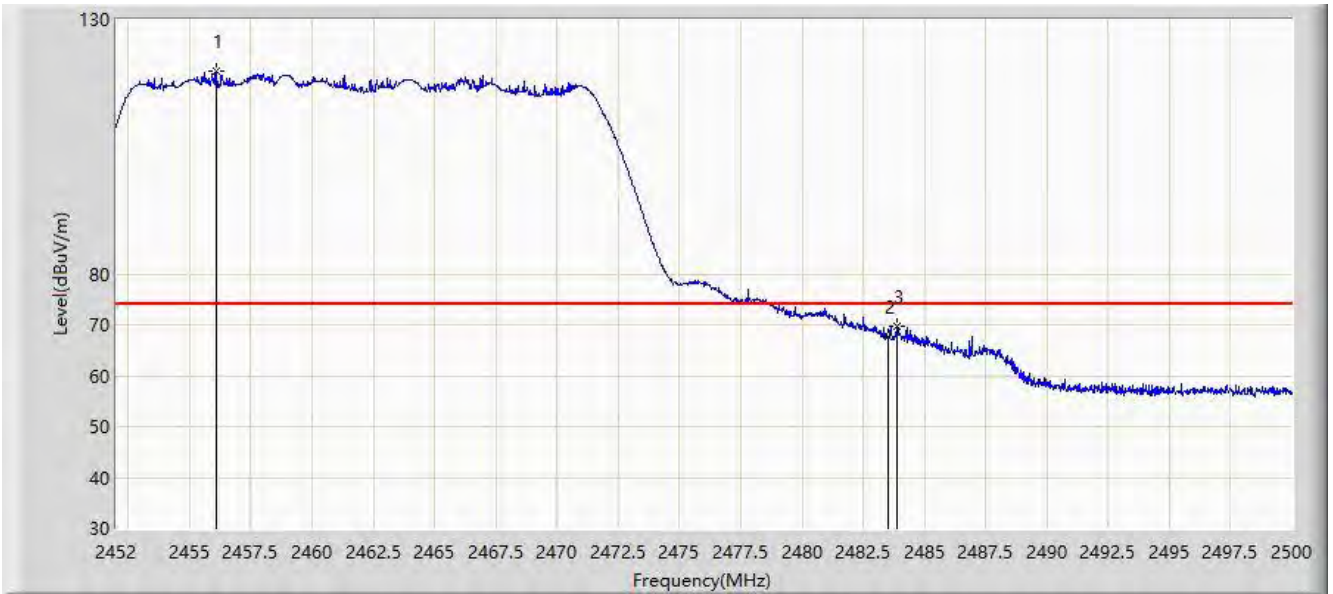


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	51.530	54.256	-2.470	54.000	-2.726	AV
2		*	2419.440	103.790	106.381	N/A	N/A	-2.591	AV
3			2483.500	53.127	55.423	-0.873	54.000	-2.296	AV

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

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

Site: AC1	Time: 2020/03/17 - 19:31
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2456.080	119.788	122.210	N/A	N/A	-2.422	PK
2			2483.500	67.634	69.930	-6.366	74.000	-2.296	PK
3			2483.872	69.630	71.924	-4.370	74.000	-2.294	PK

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

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

Site: AC1	Time: 2020/03/17 - 19:28
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2462MHz	

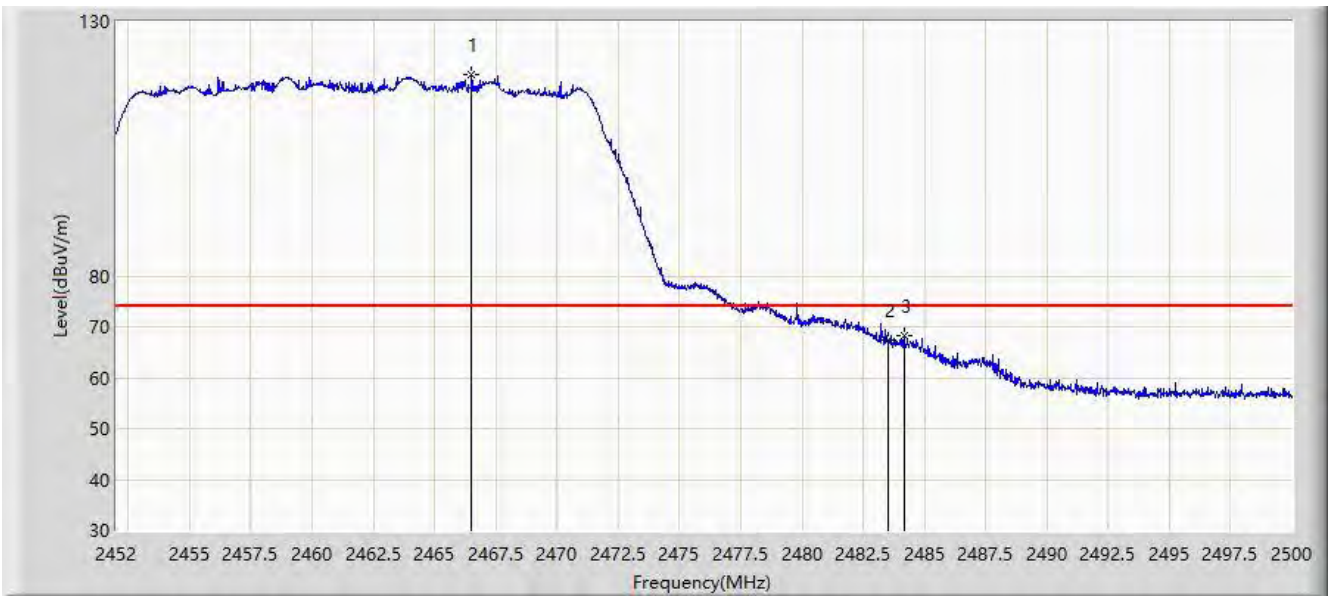


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.024	106.709	109.122	N/A	N/A	-2.413	AV
2			2483.500	53.134	55.430	-0.866	54.000	-2.296	AV

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

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

Site: AC1	Time: 2020/03/17 - 19:36
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2462MHz	

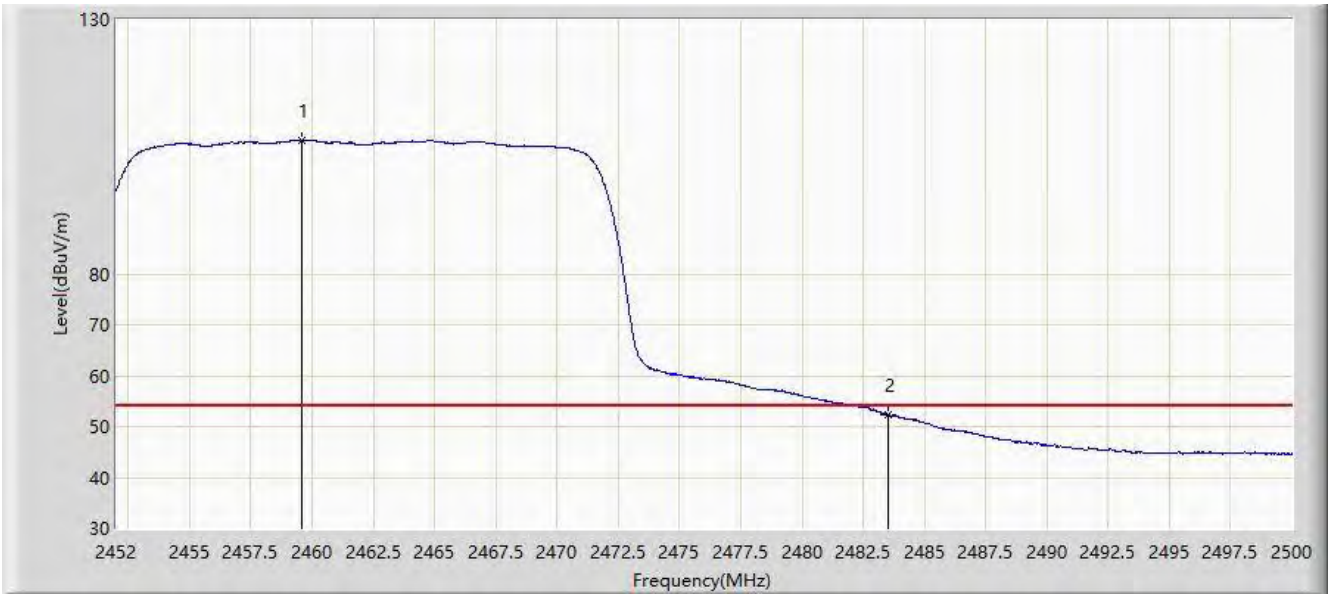


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.520	119.677	122.051	N/A	N/A	-2.374	PK
2			2483.500	67.396	69.692	-6.604	74.000	-2.296	PK
3			2484.160	68.294	70.587	-5.706	74.000	-2.293	PK

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

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

Site: AC1	Time: 2020/03/17 - 19:37
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE20 at Channel 2462MHz	

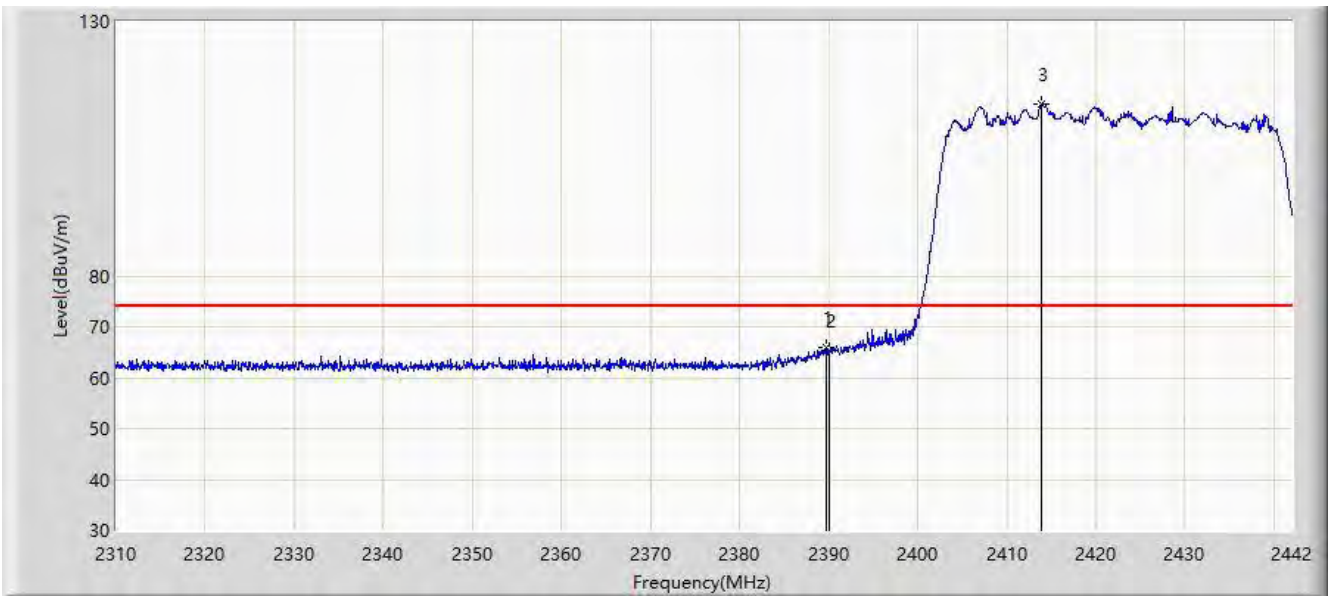


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.584	106.269	108.675	N/A	N/A	-2.405	AV
2			2483.500	52.399	54.695	-1.601	54.000	-2.296	AV

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

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

Site: AC1	Time: 2020/03/17 - 20:09
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE40 at Channel 2422MHz	

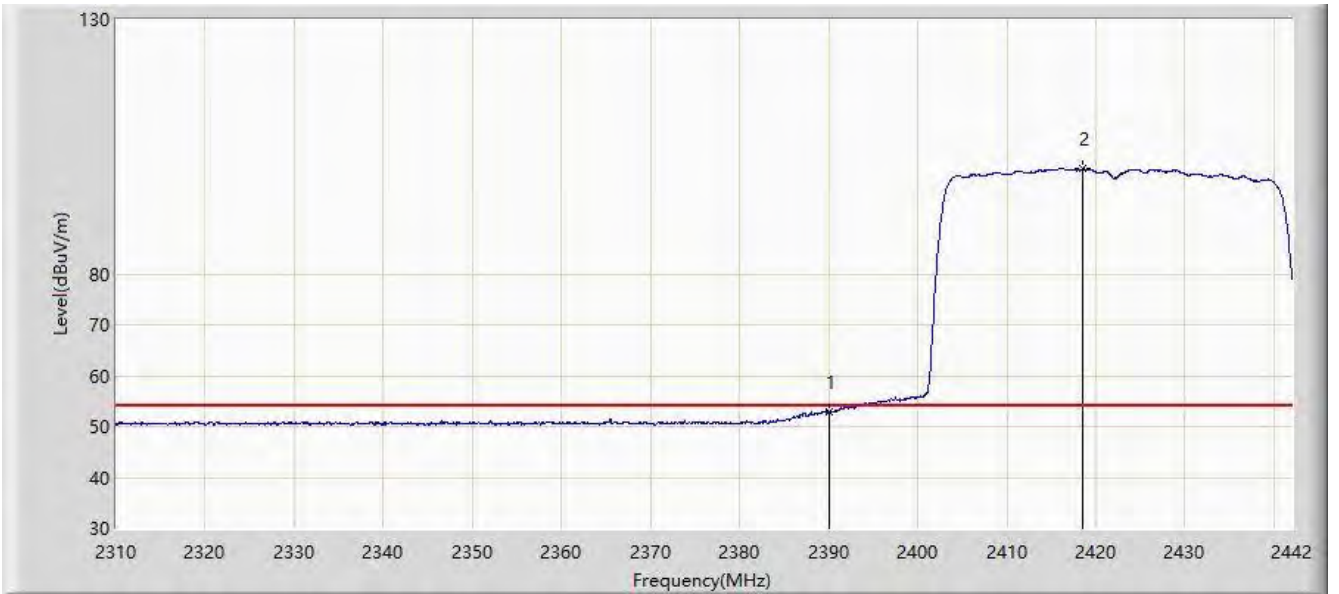


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.728	66.043	68.770	-7.957	74.000	-2.727	PK
2			2390.000	65.235	67.961	-8.765	74.000	-2.726	PK
3		*	2413.884	113.705	116.322	N/A	N/A	-2.617	PK

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

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

Site: AC1	Time: 2020/03/17 - 20:10
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE40 at Channel 2422MHz	

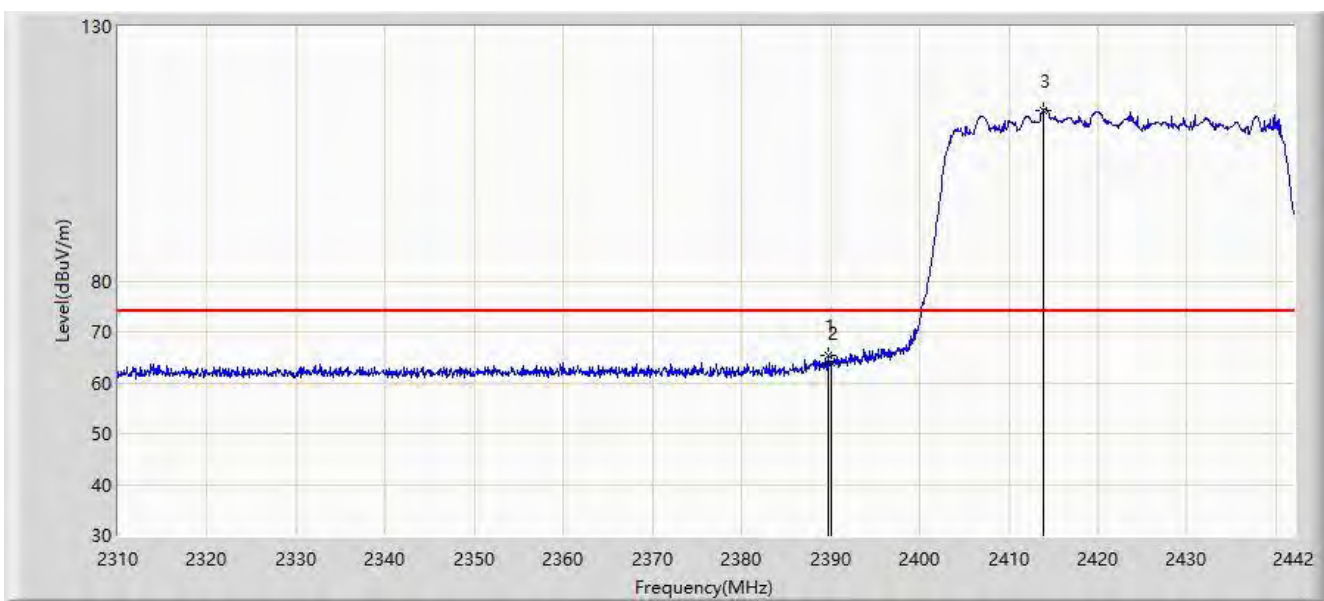


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.929	55.655	-1.071	54.000	-2.726	AV
2		*	2418.504	100.680	103.275	N/A	N/A	-2.595	AV

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

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

Site: AC1	Time: 2020/03/17 - 20:14
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE40 at Channel 2422MHz	

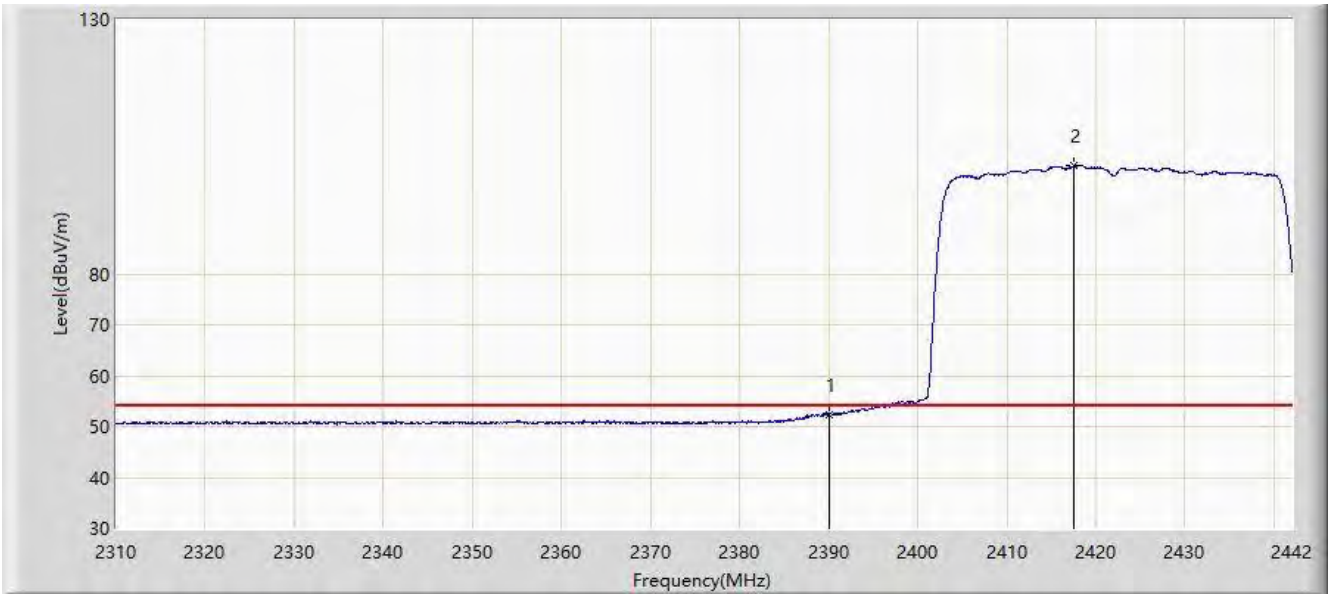


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.662	65.255	67.982	-8.745	74.000	-2.727	PK
2			2390.000	63.772	66.498	-10.228	74.000	-2.726	PK
3		*	2413.884	113.442	116.059	N/A	N/A	-2.617	PK

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

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

Site: AC1	Time: 2020/03/17 - 20:15
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE40 at Channel 2422MHz	

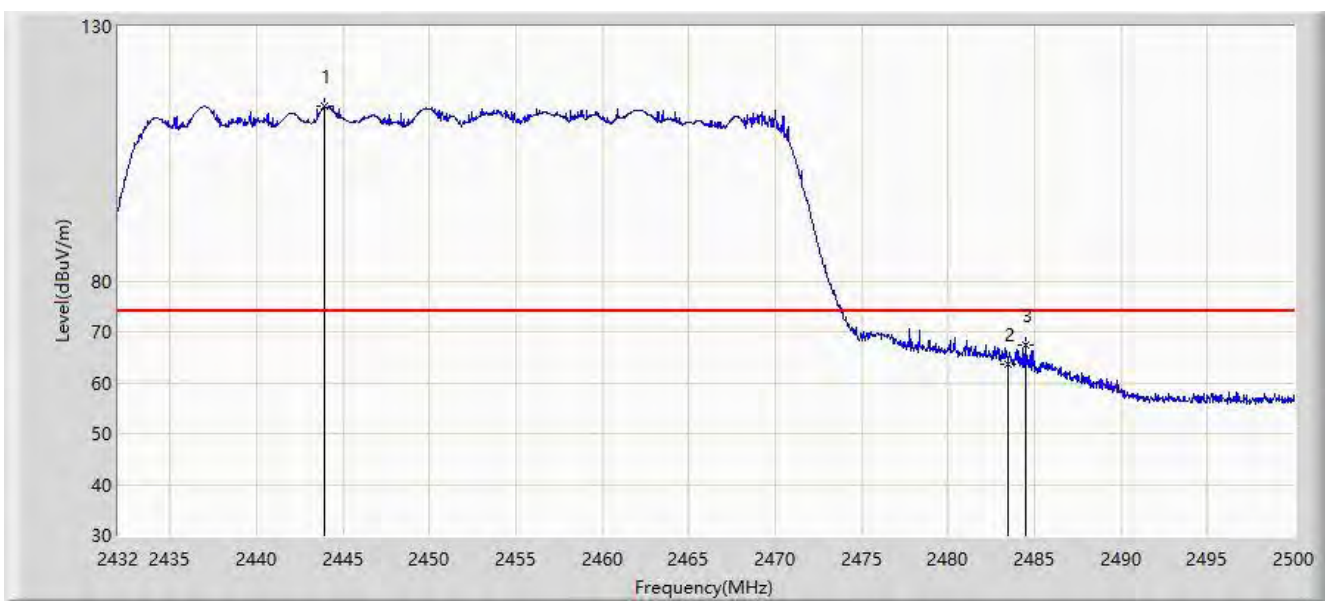


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.443	55.169	-1.557	54.000	-2.726	AV
2		*	2417.580	101.301	103.901	N/A	N/A	-2.600	AV

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

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

Site: AC1	Time: 2020/03/17 - 20:55
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE40 at Channel 2452MHz	

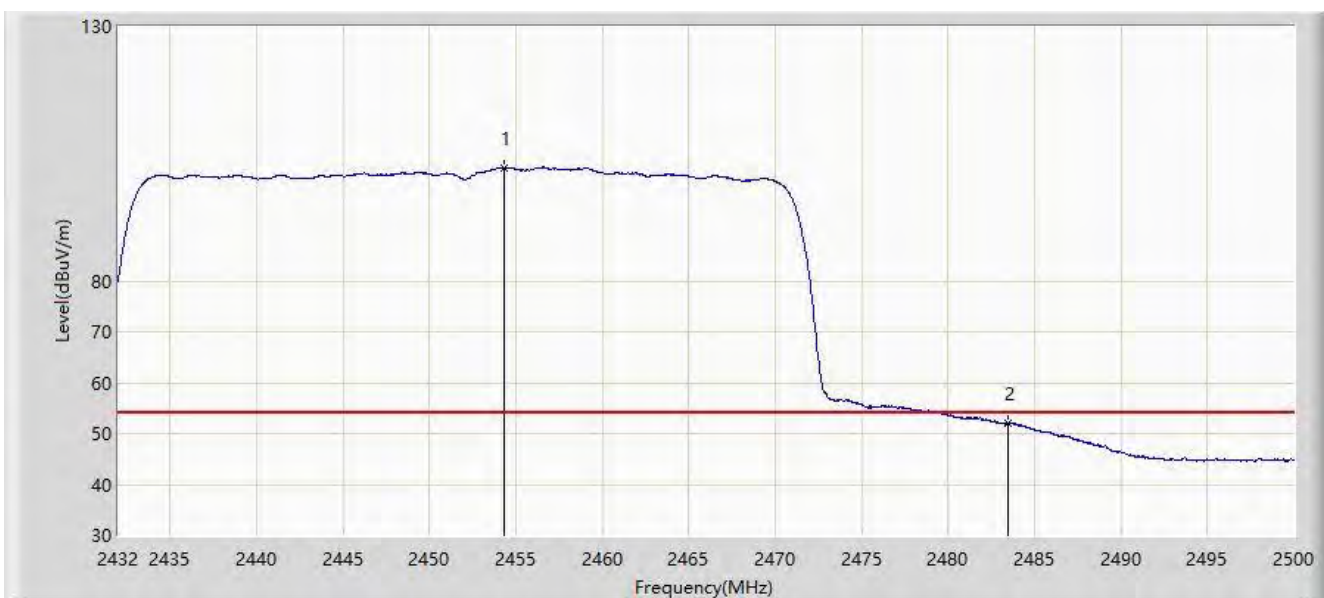


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2443.968	114.372	116.849	N/A	N/A	-2.478	PK
2			2483.500	63.762	66.058	-10.238	74.000	-2.296	PK
3			2484.530	67.536	69.827	-6.464	74.000	-2.290	PK

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

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

Site: AC1	Time: 2020/03/17 - 20:56
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE40 at Channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2454.304	102.210	104.640	N/A	N/A	-2.430	AV
2			2483.500	51.974	54.270	-2.026	54.000	-2.296	AV

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

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

Site: AC1	Time: 2020/03/17 - 20:54
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE40 at Channel 2452MHz	

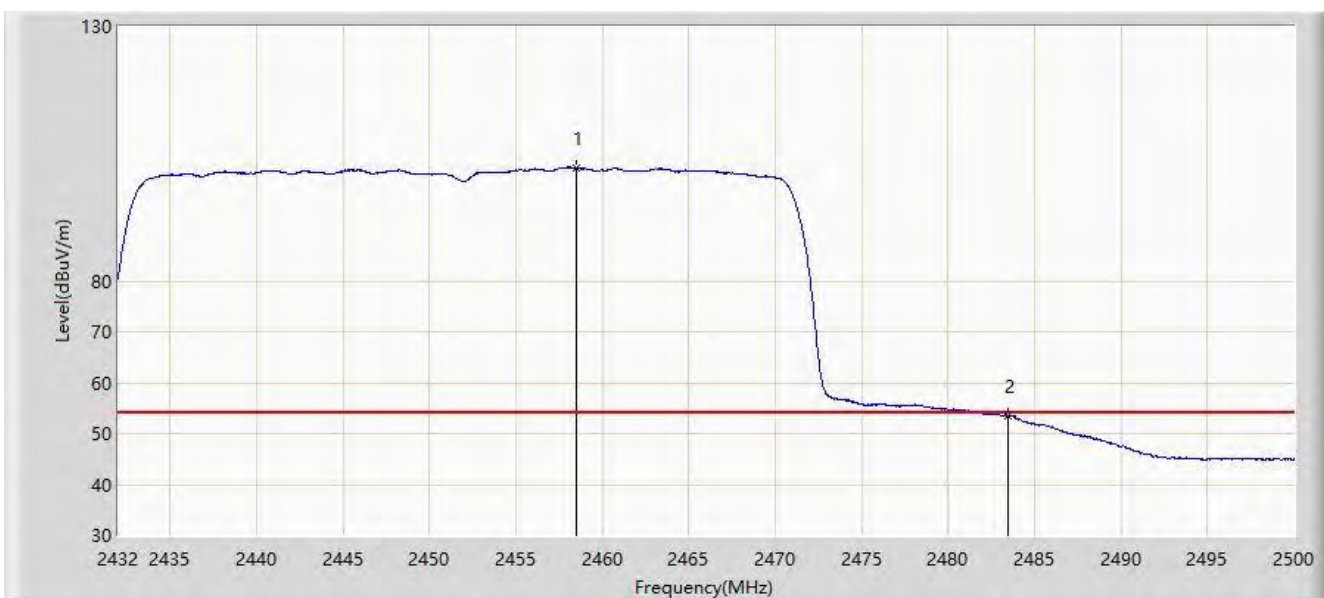


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2443.764	114.902	117.380	N/A	N/A	-2.478	PK
2			2483.500	66.086	68.382	-7.914	74.000	-2.296	PK
3			2483.952	68.578	70.871	-5.422	74.000	-2.293	PK

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

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

Site: AC1	Time: 2020/03/17 - 20:54
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE Injector
Test Mode: Transmit by 802.11ax-HE40 at Channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.520	102.224	104.635	N/A	N/A	-2.411	AV
2			2483.500	53.483	55.779	-0.517	54.000	-2.296	AV

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

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

5.7. 佔用頻道寬度

5.7.1. 適用標準

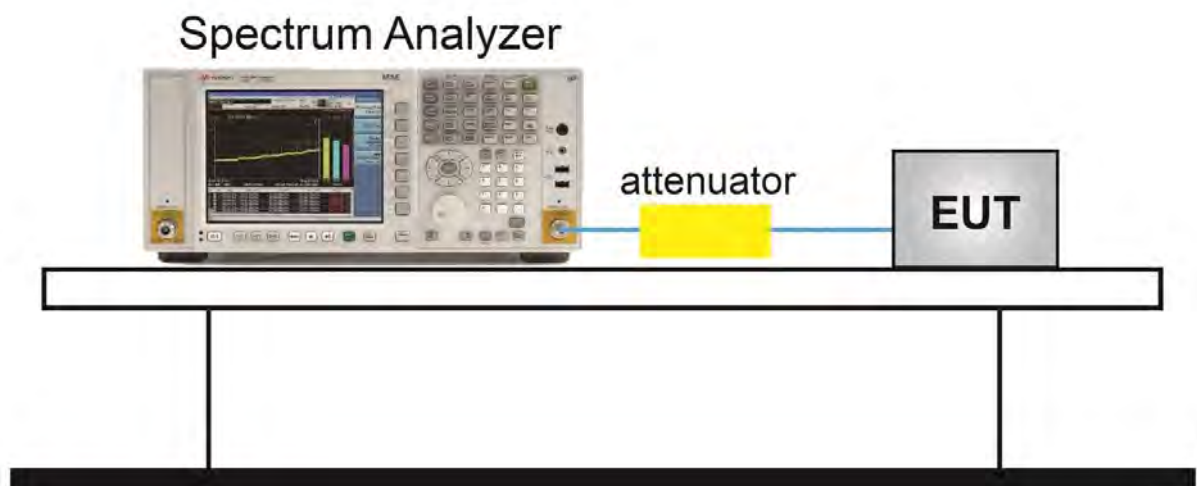
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6(2)(A)節之要求，6dB 頻寬至少應有 500kHz。

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

待測物名稱	ACCESS POINT	溫度	27°C
測試工程師	Kevin Ker	濕度	65%
測試場地	SR2	測試日期	2020/01/14

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0 / Ant 0 + 1						
802.11b	1Mbps	01	2412	7.09	≥ 0.5	Pass
802.11b	1Mbps	06	2437	7.09	≥ 0.5	Pass
802.11b	1Mbps	11	2462	7.08	≥ 0.5	Pass
802.11g	6Mbps	01	2412	16.36	≥ 0.5	Pass
802.11g	6Mbps	06	2437	16.35	≥ 0.5	Pass
802.11g	6Mbps	11	2462	16.38	≥ 0.5	Pass
802.11n-HT20	MCS0	01	2412	17.59	≥ 0.5	Pass
802.11n-HT20	MCS0	06	2437	17.57	≥ 0.5	Pass
802.11n-HT20	MCS0	11	2462	17.57	≥ 0.5	Pass
802.11n-HT40	MCS0	03	2422	36.33	≥ 0.5	Pass
802.11n-HT40	MCS0	06	2437	36.09	≥ 0.5	Pass
802.11n-HT40	MCS0	09	2452	35.97	≥ 0.5	Pass
802.11ax-HE20	MCS0	01	2412	18.91	≥ 0.5	Pass
802.11ax-HE20	MCS0	06	2437	18.88	≥ 0.5	Pass
802.11ax-HE20	MCS0	11	2462	19.02	≥ 0.5	Pass
802.11ax-HE40	MCS0	03	2422	37.64	≥ 0.5	Pass
802.11ax-HE40	MCS0	06	2437	37.41	≥ 0.5	Pass
802.11ax-HE40	MCS0	09	2452	37.05	≥ 0.5	Pass

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

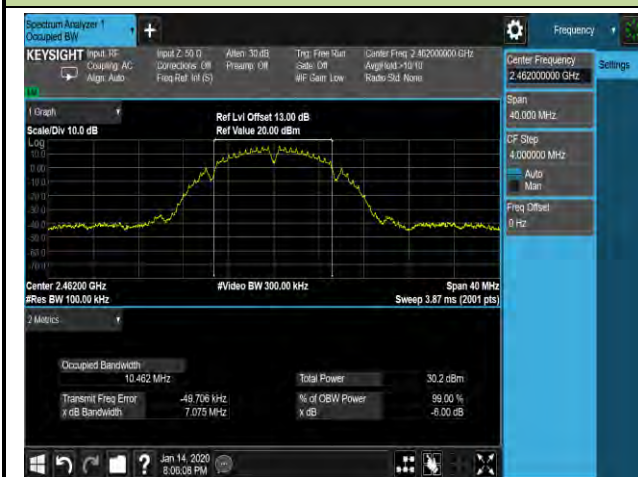
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



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

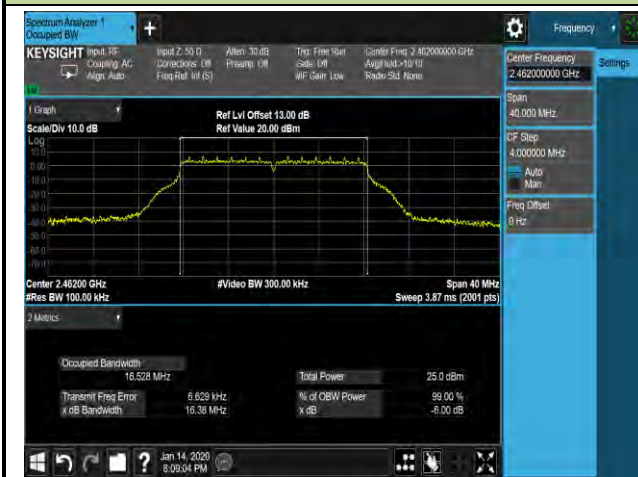
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



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

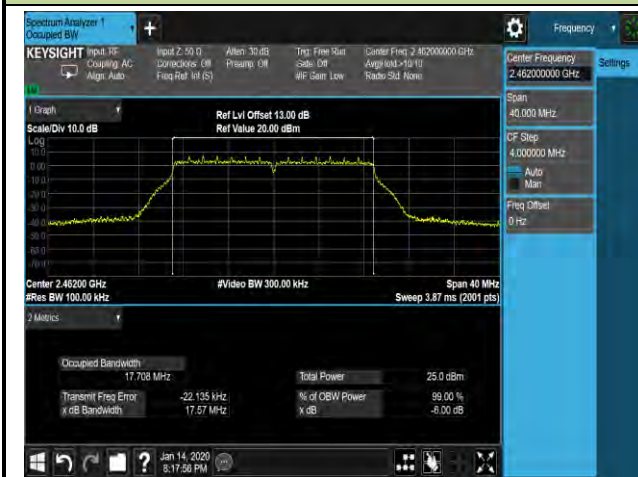
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



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

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11ax-HE20 6dB Bandwidth - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11ax-HE40 6dB Bandwidth - Ant 0 / Ant 0 + 1

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

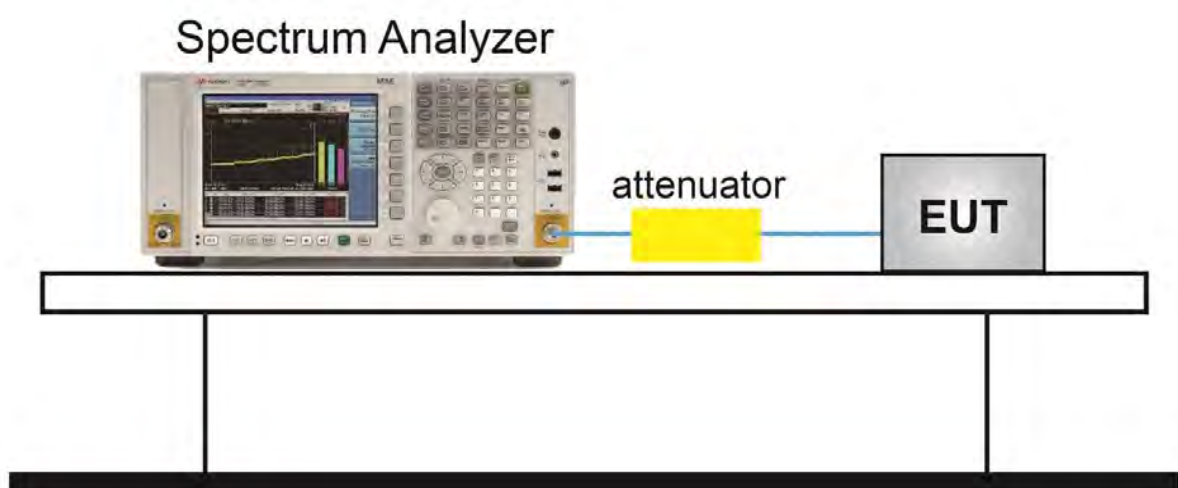
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6(2)(B)節，在使用頻率範圍之任意 3 千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

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 10kHz，視訊頻寬大於解析度頻寬，掃瞄時間為自動掃描。

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

待測物名稱	ACCESS POINT	溫度	22 ~ 25℃
測試工程師	Kevin Ker	濕度	46 ~ 60%
測試場地	SR2	測試日期	2020/01/14 ~ 2020/03/01
天線類型	Omni Antenna (AP-ANT-20W)	測試項目	Power Spectral Density

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 AVG PSD (dBm / 10kHz)	Ant 1 AVG PSD (dBm / 10kHz)	Duty Cycle (%)	Total AVG PSD (dBm / 10kHz)	Limit (dBm / 3kHz)	Result
11b	1Mbps	01	2412	-8.77	-8.21	95.07	-5.25	≤ 8	Pass
11b	1Mbps	06	2437	-8.52	-8.54	95.07	-5.30	≤ 8	Pass
11b	1Mbps	11	2462	-9.90	-10.19	95.07	-6.81	≤ 8	Pass
11g	6Mbps	01	2412	-9.21	-9.18	94.81	-5.95	≤ 8	Pass
11g	6Mbps	06	2437	-4.73	-5.16	94.81	-1.70	≤ 8	Pass
11g	6Mbps	11	2462	-10.47	-10.52	94.81	-7.25	≤ 8	Pass
11n-HT20	MCS0	01	2412	-9.22	-9.39	97.96	-6.20	≤ 8	Pass
11n-HT20	MCS0	06	2437	-5.34	-5.78	97.96	-2.45	≤ 8	Pass
11n-HT20	MCS0	11	2462	-10.36	-10.59	97.96	-7.37	≤ 8	Pass
11n-HT40	MCS0	03	2422	-11.39	-10.97	96.40	-8.01	≤ 8	Pass
11n-HT40	MCS0	06	2437	-11.14	-10.40	96.40	-7.58	≤ 8	Pass
11n-HT40	MCS0	09	2452	-12.97	-13.62	96.40	-10.11	≤ 8	Pass
11ax-HE20	MCS0	01	2412	-10.54	-10.74	97.51	-7.52	≤ 8	Pass
11ax-HE20	MCS0	06	2437	-5.65	-5.74	97.51	-2.57	≤ 8	Pass
11ax-HE20	MCS0	11	2462	-11.19	-11.07	97.51	-8.01	≤ 8	Pass
11ax-HE40	MCS0	03	2422	-12.76	-12.88	95.66	-9.62	≤ 8	Pass
11ax-HE40	MCS0	06	2437	-11.14	-11.16	95.66	-7.95	≤ 8	Pass
11ax-HE40	MCS0	09	2452	-13.10	-13.39	95.66	-10.04	≤ 8	Pass

Note 1: The total AVG PSD = $10 \cdot \log\{10^{(\text{Ant 0 AVG PSD}/10)} + 10^{(\text{Ant 1 AVG PSD}/10)}\} + 10 \cdot \log(1/\text{Duty cycle})$.

Note 2: Total AVG PSD (dBm / 10kHz) << Limit (dBm / 3kHz), so there is no necessary to conversion unit.

802.11b AVGPSPD - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11g AVGPDS - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

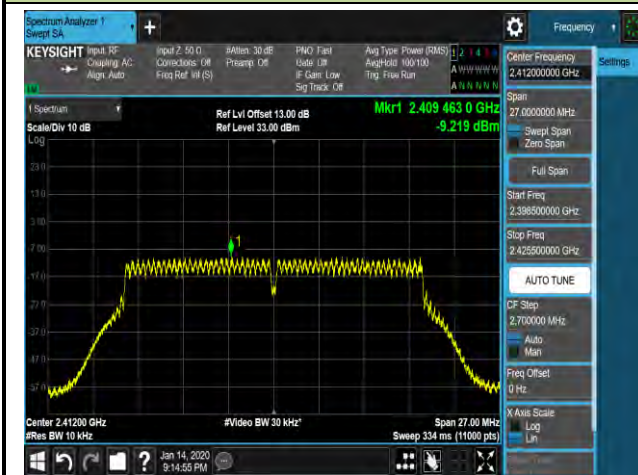


Channel 11 (2462MHz)

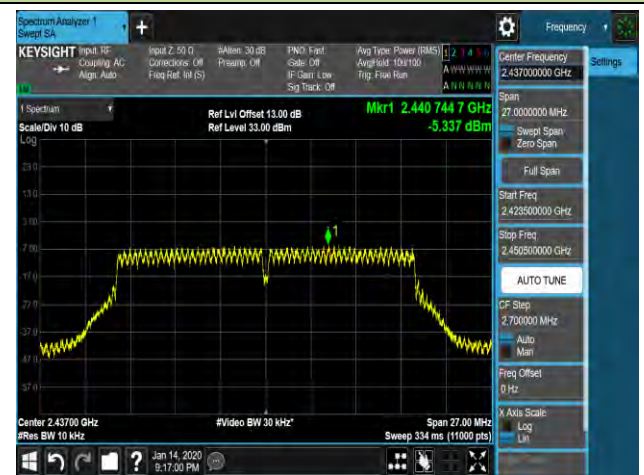


802.11n-HT20 AVGPDS - Ant 0 / Ant 0 + 1

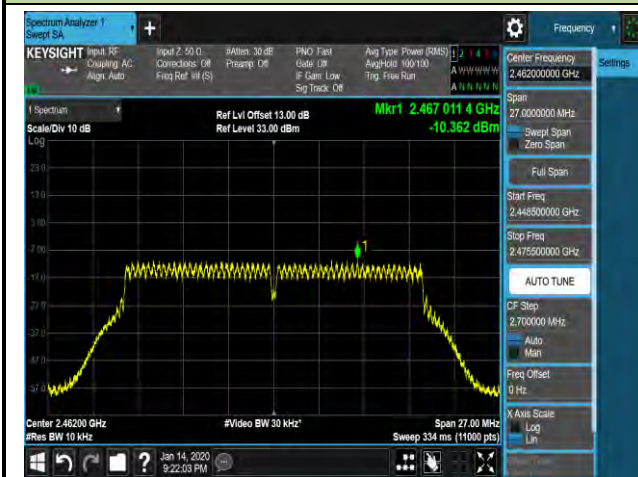
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

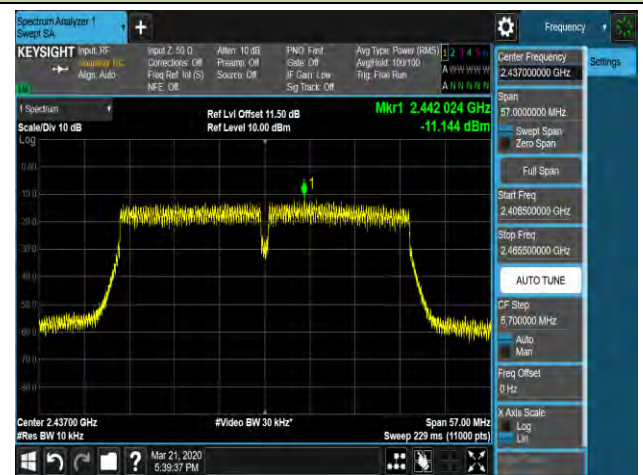


802.11n-HT40 AVGPSD - Ant 0 / Ant 0 + 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11ax-HE20 AVGPSPD - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

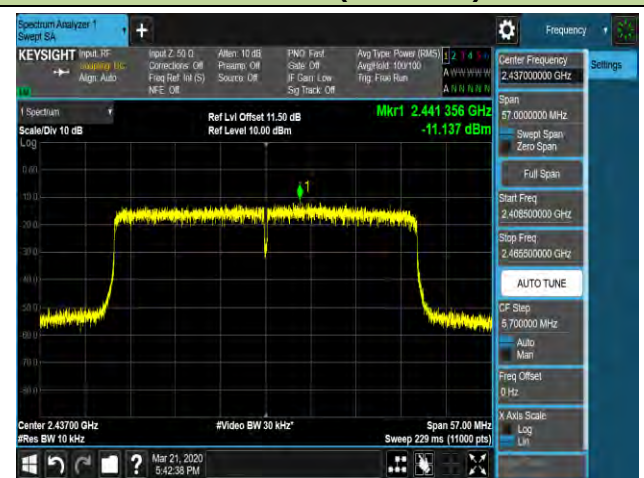


802.11ax-HE40 AVGPSPD - Ant 0 / Ant 0 + 1

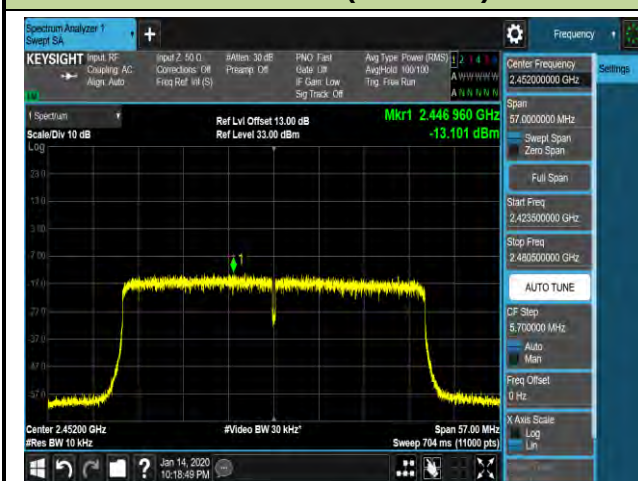
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11b AVGPSPD - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

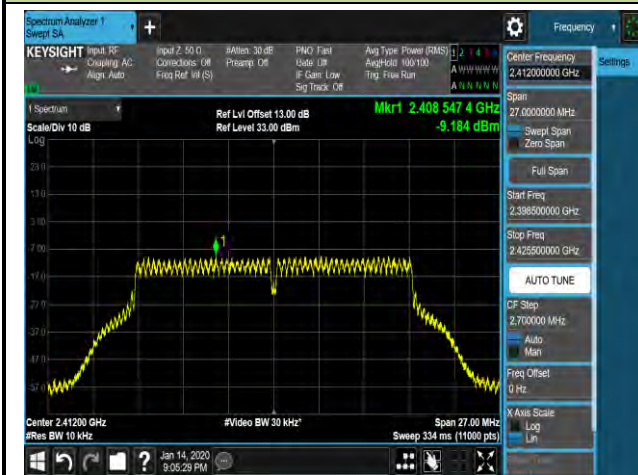


Channel 11 (2462MHz)

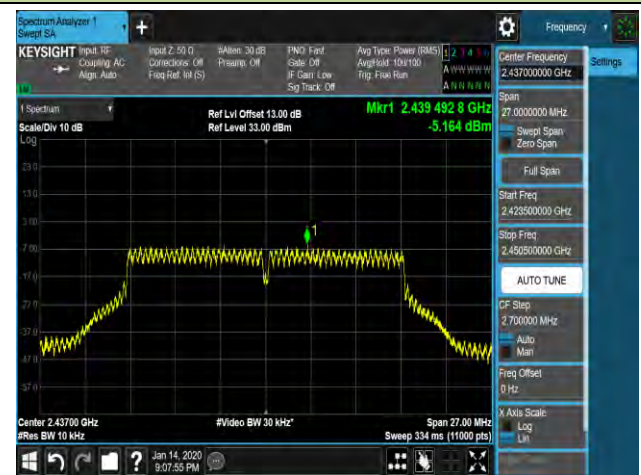


802.11g AVGPDS - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

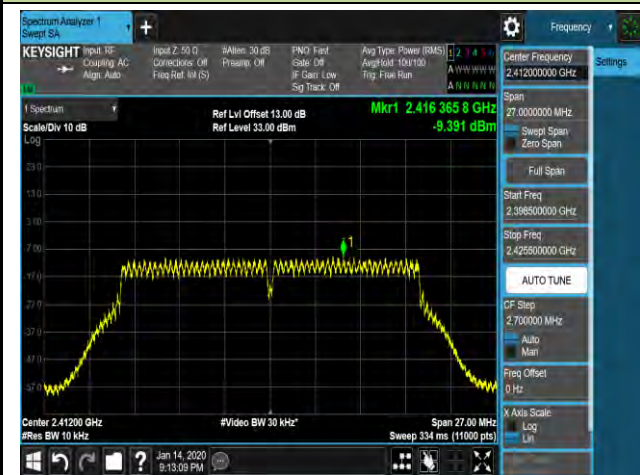


Channel 11 (2462MHz)

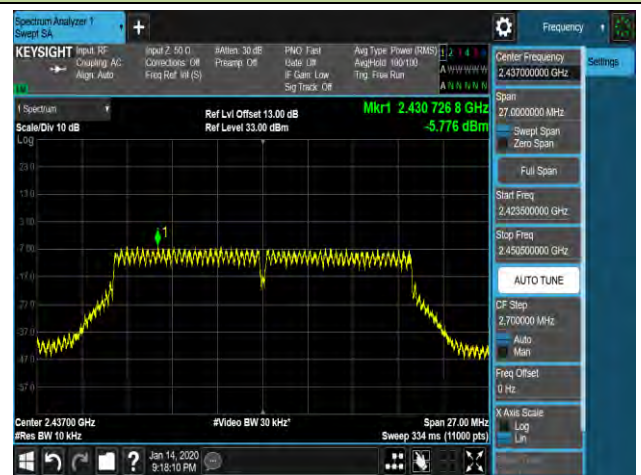


802.11n-HT20 AVGPDS - Ant 1 / Ant 0 + 1

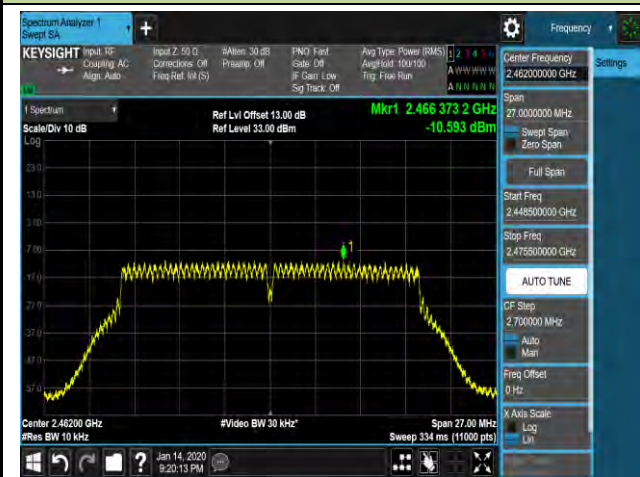
Channel 01 (2412MHz)



Channel 06 (2437MHz)

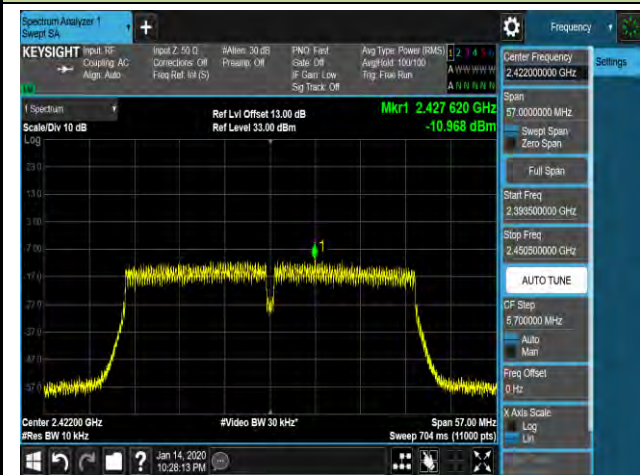


Channel 11 (2462MHz)

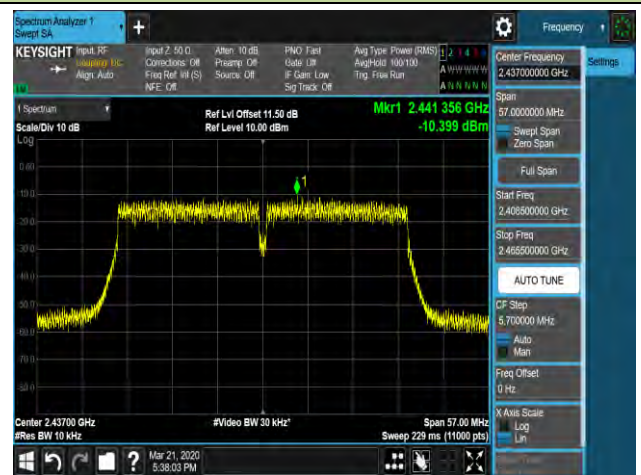


802.11n-HT40 AVGPSD - Ant 1 / Ant 0 + 1

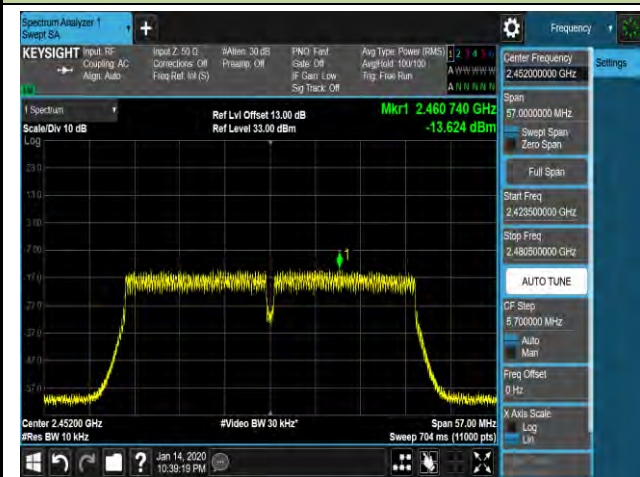
Channel 03 (2422MHz)



Channel 06 (2437MHz)

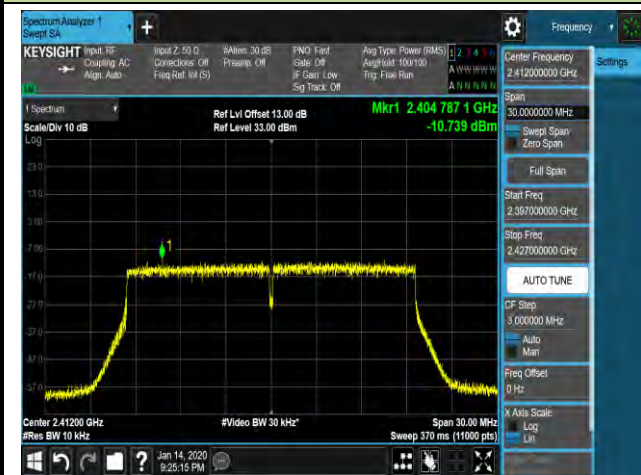


Channel 11 (2452MHz)

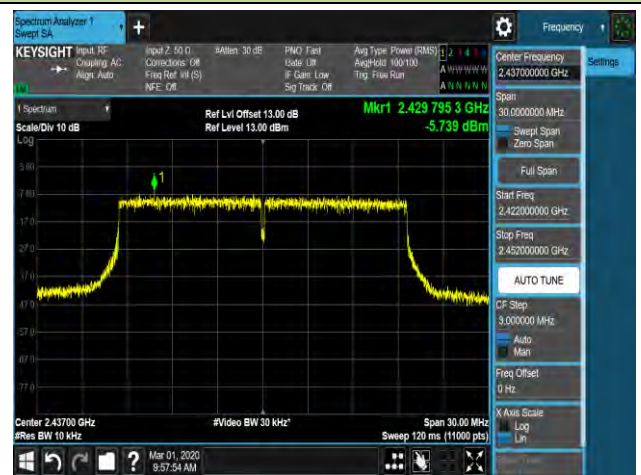


802.11ax-HE20 AVGPSPD - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

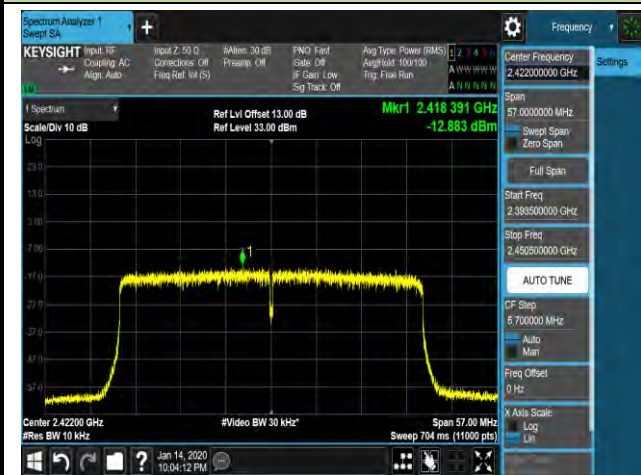


Channel 11 (2462MHz)

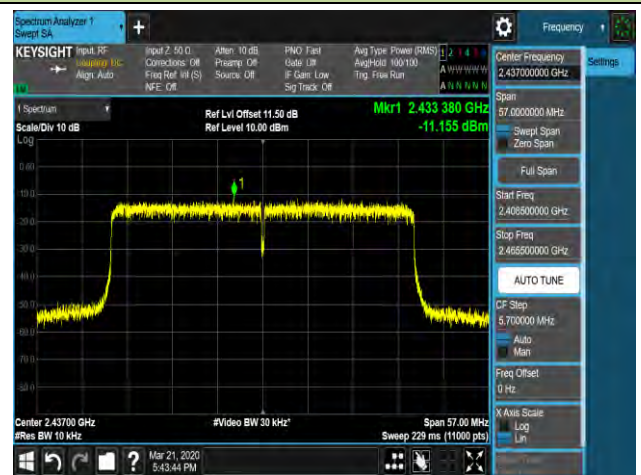


802.11ax-HE40 AVGPSPD - Ant 1 / Ant 0 + 1

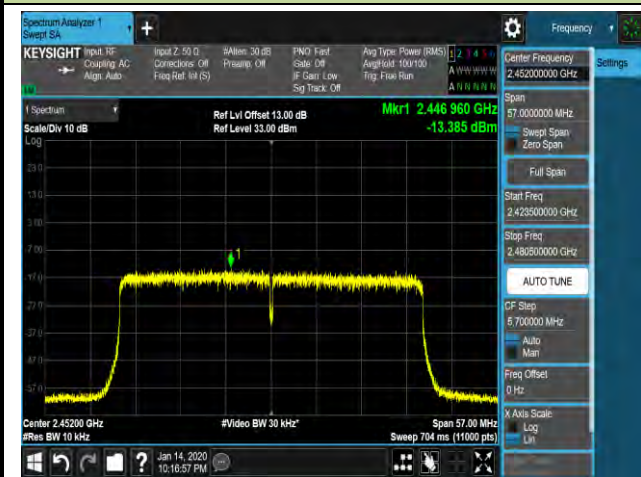
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 11 (2452MHz)



Product	ACCESS POINT	Temperature	25°C
Test Engineer	Alisa Deng	Relative Humidity	48%
Test Site	SR5	Test Date	2020/09/06
Antenna Type	Omni Antenna (ANT-2x2-2314)	Test Item	Power Spectral Density

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 AVGPPSD (dBm / 10kHz)	Ant 1 AVGPPSD (dBm / 10kHz)	Duty Cycle (%)	Total AVGPPSD (dBm / 10kHz)	Limit (dBm / 3kHz)	Result
11b	1Mbps	01	2412	-14.89	-14.45	95.07	-11.43	≤ 0.00	Pass
11b	1Mbps	06	2437	-14.67	-13.84	95.07	-11.01	≤ 0.00	Pass
11b	1Mbps	11	2462	-15.22	-13.76	95.07	-11.20	≤ 0.00	Pass
11g	6Mbps	01	2412	-22.90	-20.84	94.81	-18.51	≤ 0.00	Pass
11g	6Mbps	06	2437	-16.36	-15.85	94.81	-12.86	≤ 0.00	Pass
11g	6Mbps	11	2462	-22.35	-21.81	94.81	-18.83	≤ 0.00	Pass
11n-HT20	MCS0	01	2412	-22.07	-19.87	97.96	-17.73	≤ 0.00	Pass
11n-HT20	MCS0	06	2437	-17.76	-17.33	97.96	-14.44	≤ 0.00	Pass
11n-HT20	MCS0	11	2462	-23.22	-22.39	97.96	-19.69	≤ 0.00	Pass
11n-HT40	MCS0	03	2422	-25.71	-24.62	96.40	-21.96	≤ 0.00	Pass
11n-HT40	MCS0	06	2437	-22.88	-23.09	96.40	-19.81	≤ 0.00	Pass
11n-HT40	MCS0	09	2452	-25.61	-24.92	96.40	-22.08	≤ 0.00	Pass
11ax-HE20	MCS0	01	2412	-23.66	-21.85	97.51	-19.54	≤ 0.00	Pass
11ax-HE20	MCS0	06	2437	-18.65	-17.20	97.51	-14.74	≤ 0.00	Pass
11ax-HE20	MCS0	11	2462	-23.35	-23.43	97.51	-20.27	≤ 0.00	Pass
11ax-HE40	MCS0	03	2422	-26.93	-24.78	95.66	-22.52	≤ 0.00	Pass
11ax-HE40	MCS0	06	2437	-23.97	-22.74	95.66	-20.11	≤ 0.00	Pass
11ax-HE40	MCS0	09	2452	-25.56	-25.61	95.66	-22.38	≤ 0.00	Pass

Note 1: The total AVGPPSD = $10 \cdot \log\{10^{(\text{Ant 0 AVGPPSD}/10)} + 10^{(\text{Ant 1 AVGPPSD}/10)}\} + 10 \cdot \log(1/\text{Duty cycle})$.

Note 2: Total AVGPPSD (dBm / 10kHz) << Limit (dBm / 3kHz), so there is no necessary to conversion unit.

802.11b AVGPDS - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11g AVGPSPD - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

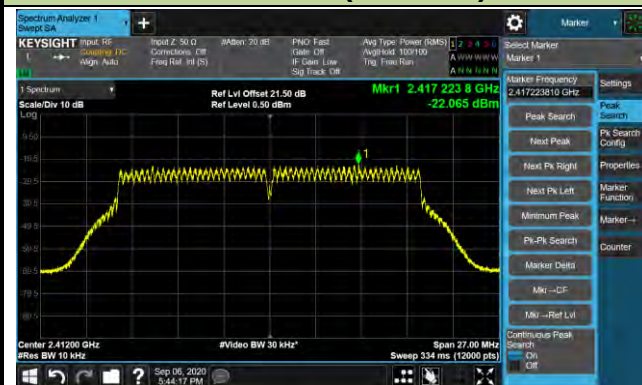


Channel 11 (2462MHz)



802.11n-HT20 AVGPDS - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

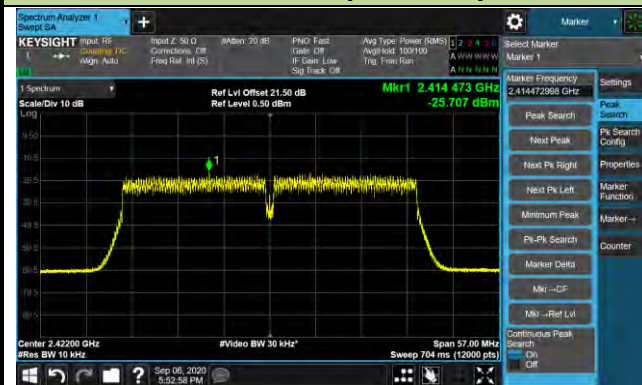


Channel 11 (2462MHz)

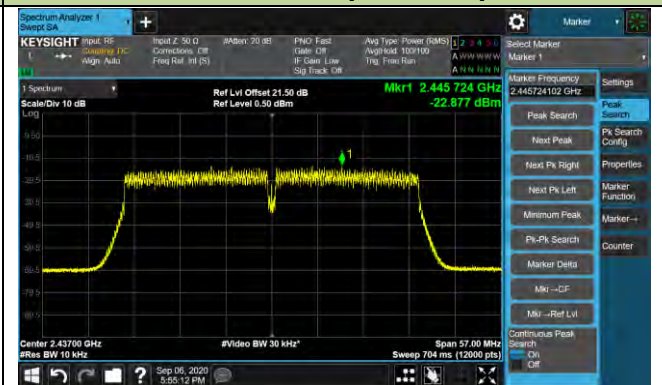


802.11n-HT40 AVGPSD - Ant 0 / Ant 0 + 1

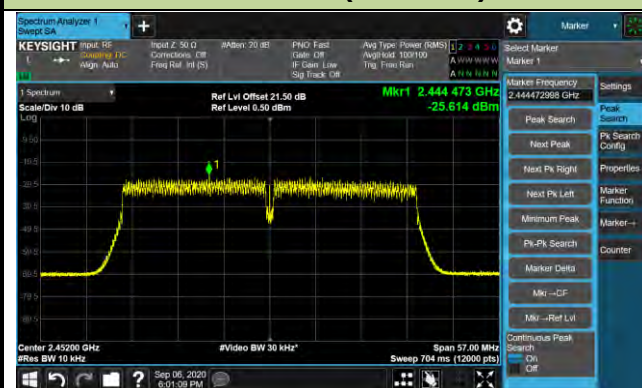
Channel 03 (2422MHz)



Channel 06 (2437MHz)

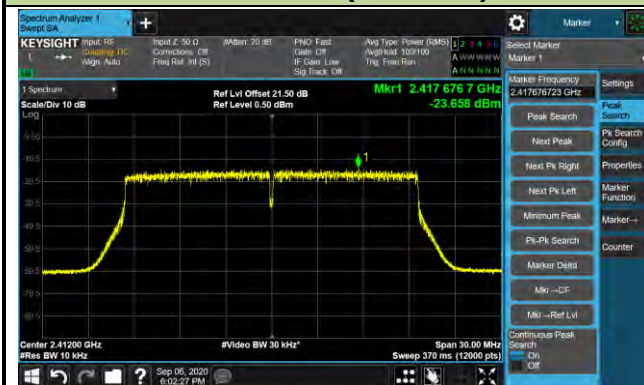


Channel 09 (2452MHz)



802.11ax-HE20 AVGPDS - Ant 0 / Ant 0 + 1

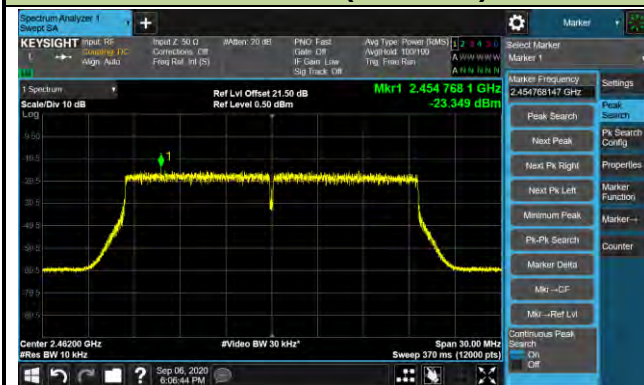
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

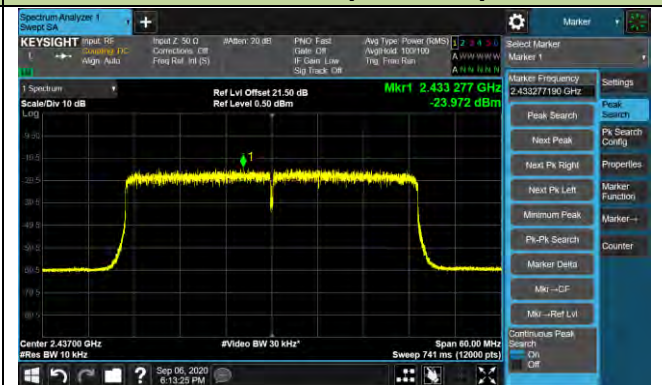


802.11ax-HE40 AVGPSPD - Ant 0 / Ant 0 + 1

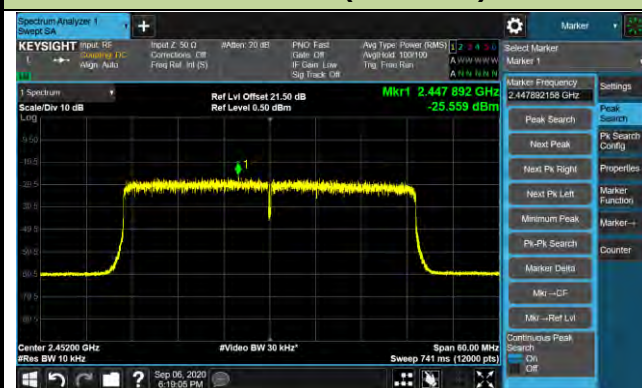
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11b AVGPDS - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

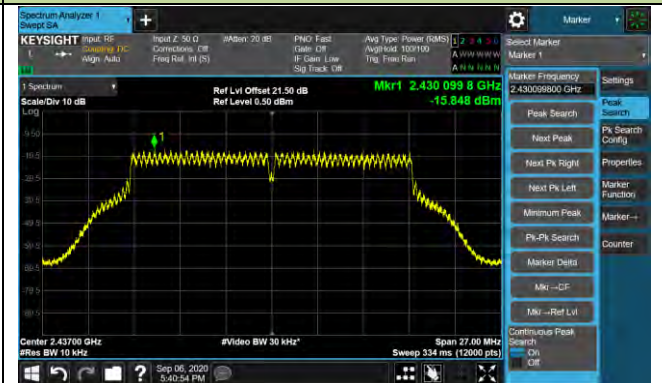


802.11g AVGPSPD - Ant 1 / Ant 0 + 1

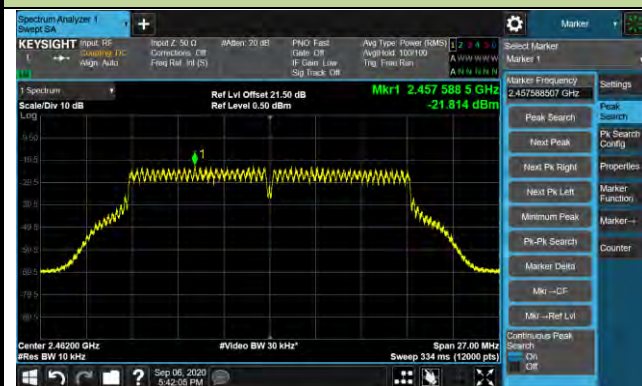
Channel 01 (2412MHz)



Channel 06 (2437MHz)

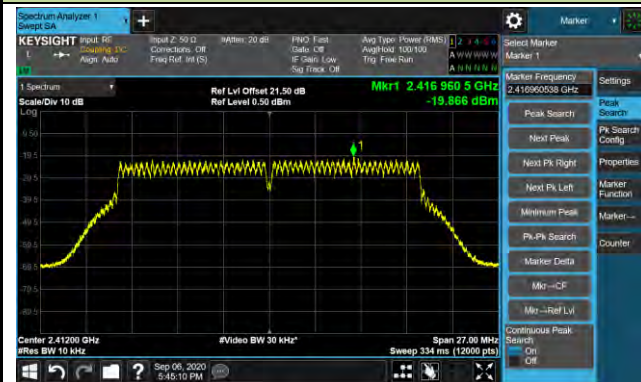


Channel 11 (2462MHz)

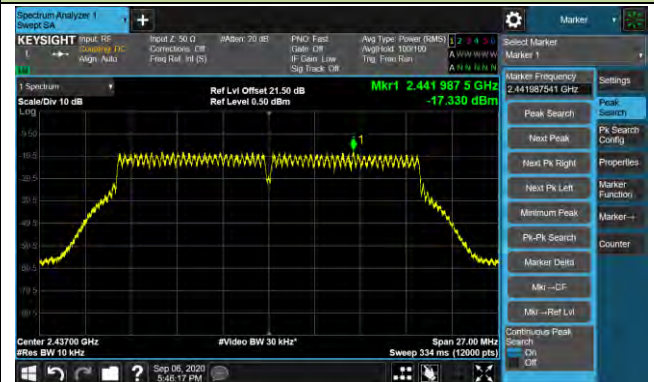


802.11n-HT20 AVGPSD - Ant 1 / Ant 0 + 1

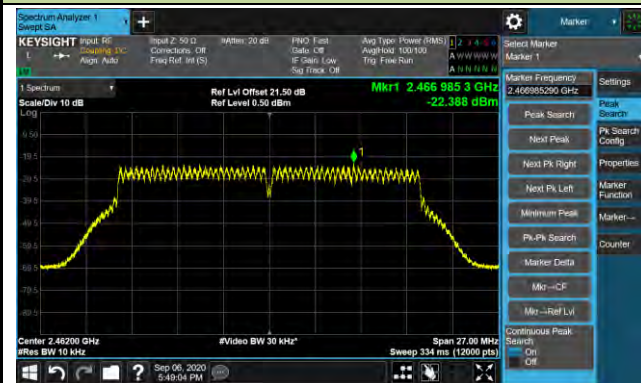
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

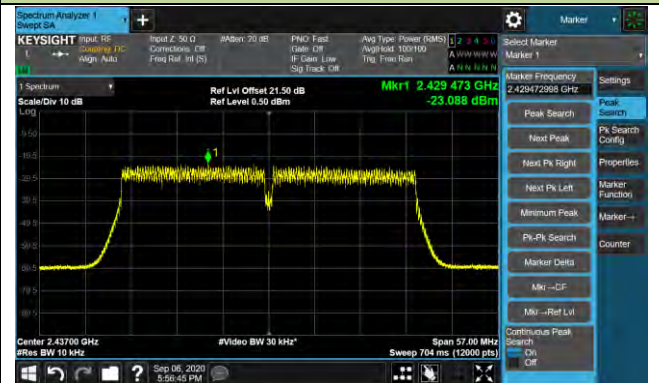


802.11n-HT40 AVGPDS - Ant 1 / Ant 0 + 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 11 (2452MHz)



802.11ax-HE20 AVGPSPD - Ant 1 / Ant 0 + 1

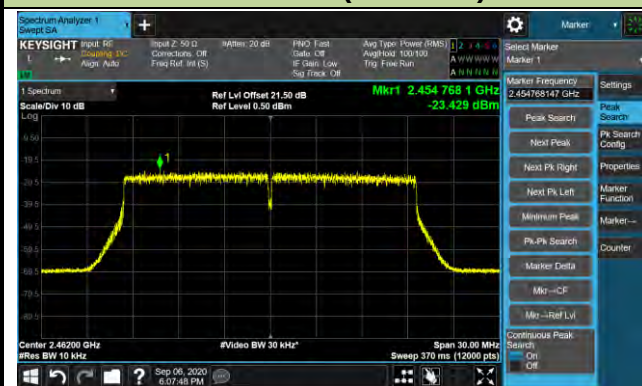
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11ax-HE40 AVGPSPD - Ant 1 / Ant 0 + 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 11 (2452MHz)



The End