Figure Channel 01:

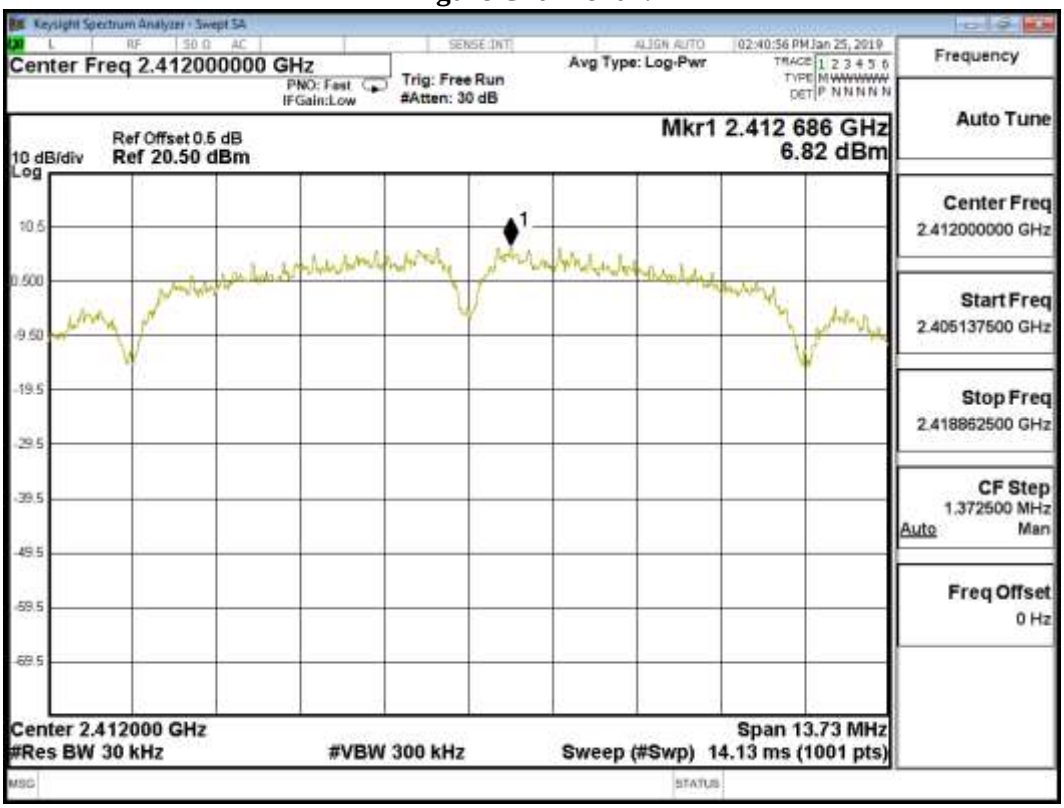


Figure Channel 07:

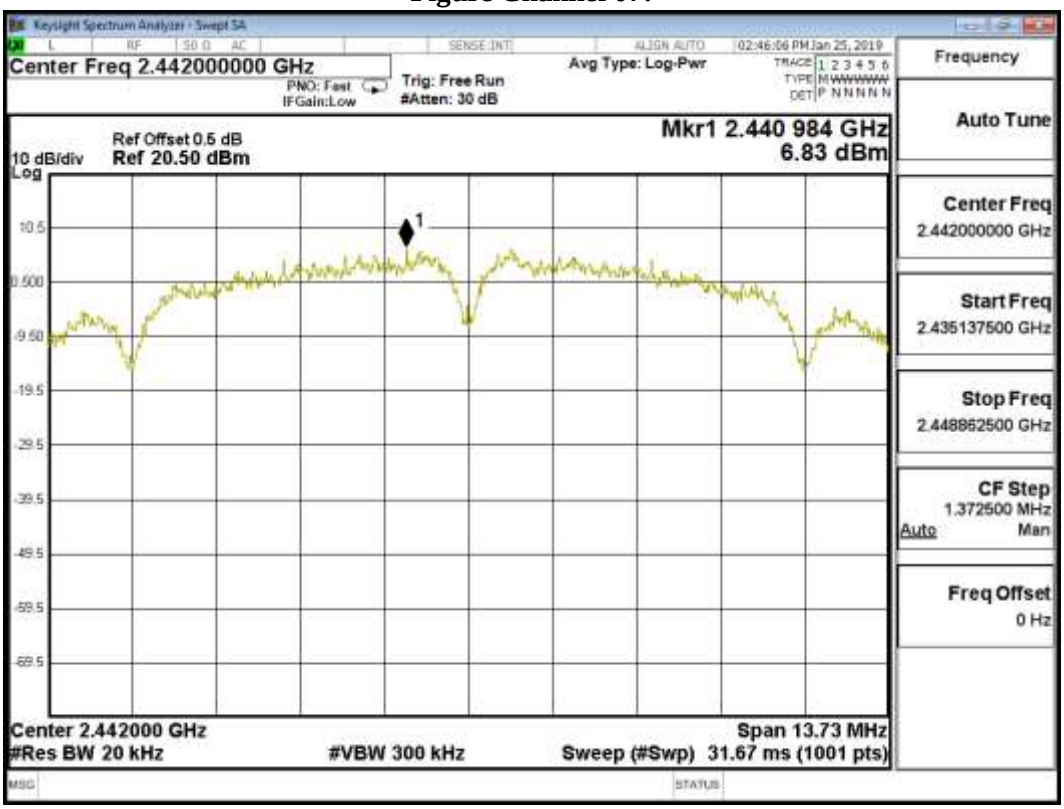


Figure Channel 11:

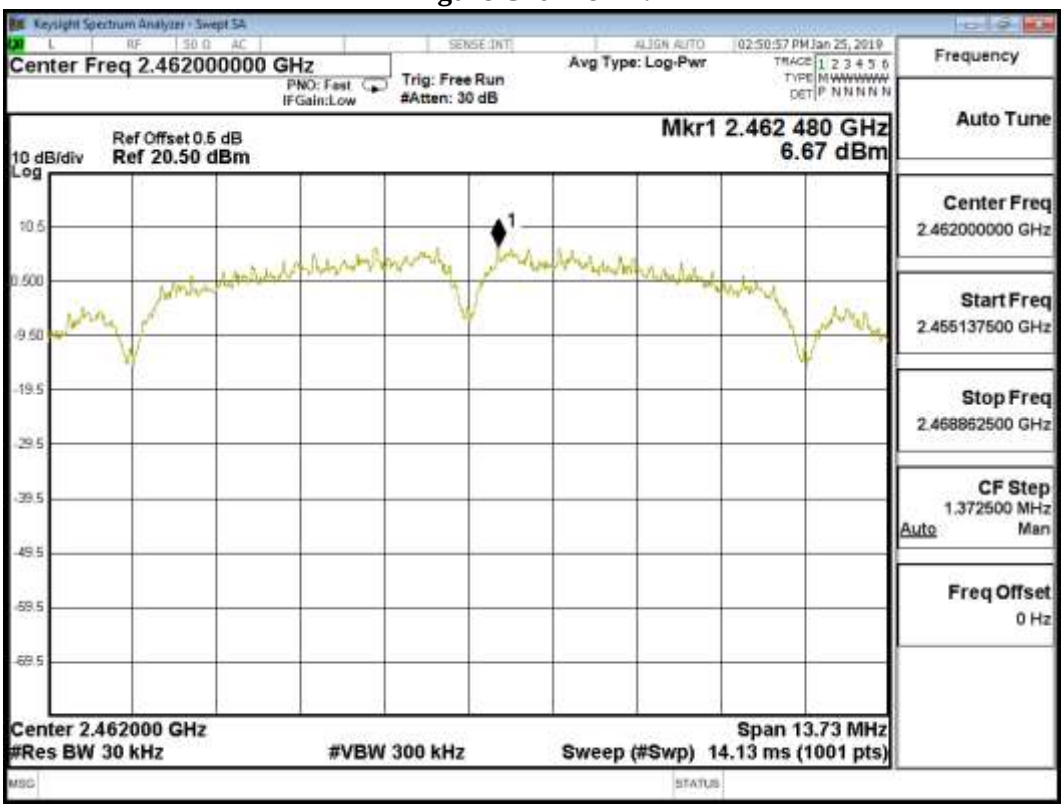


Figure Channel 12:

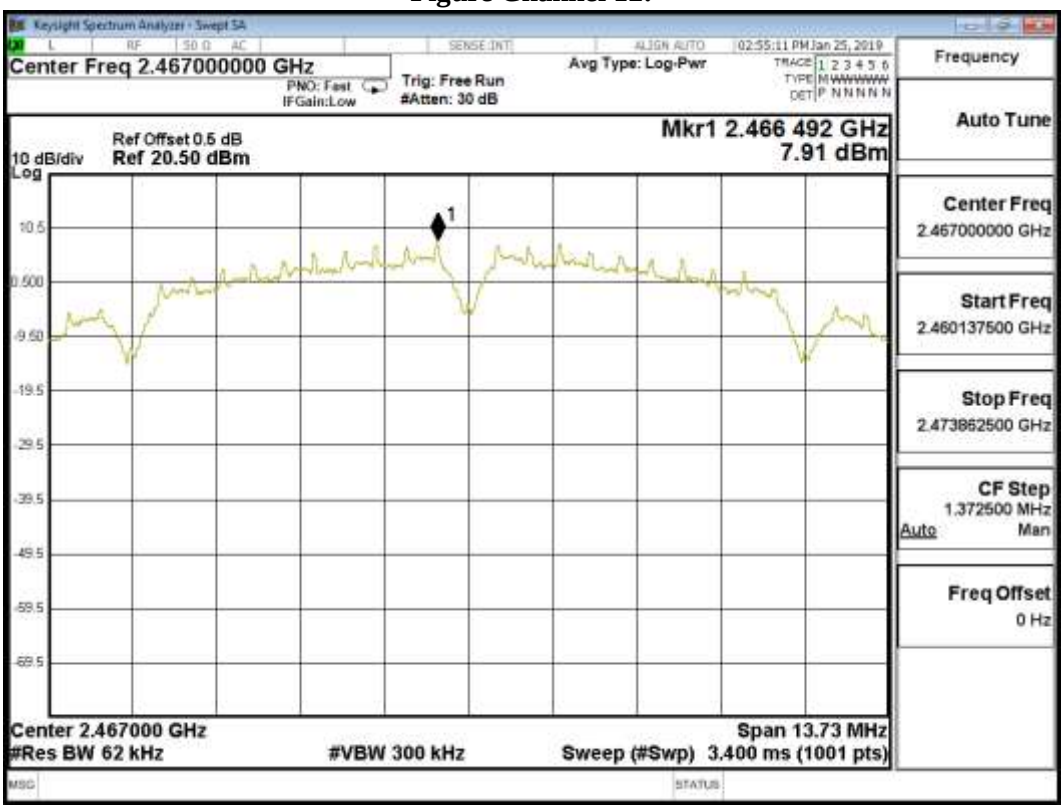
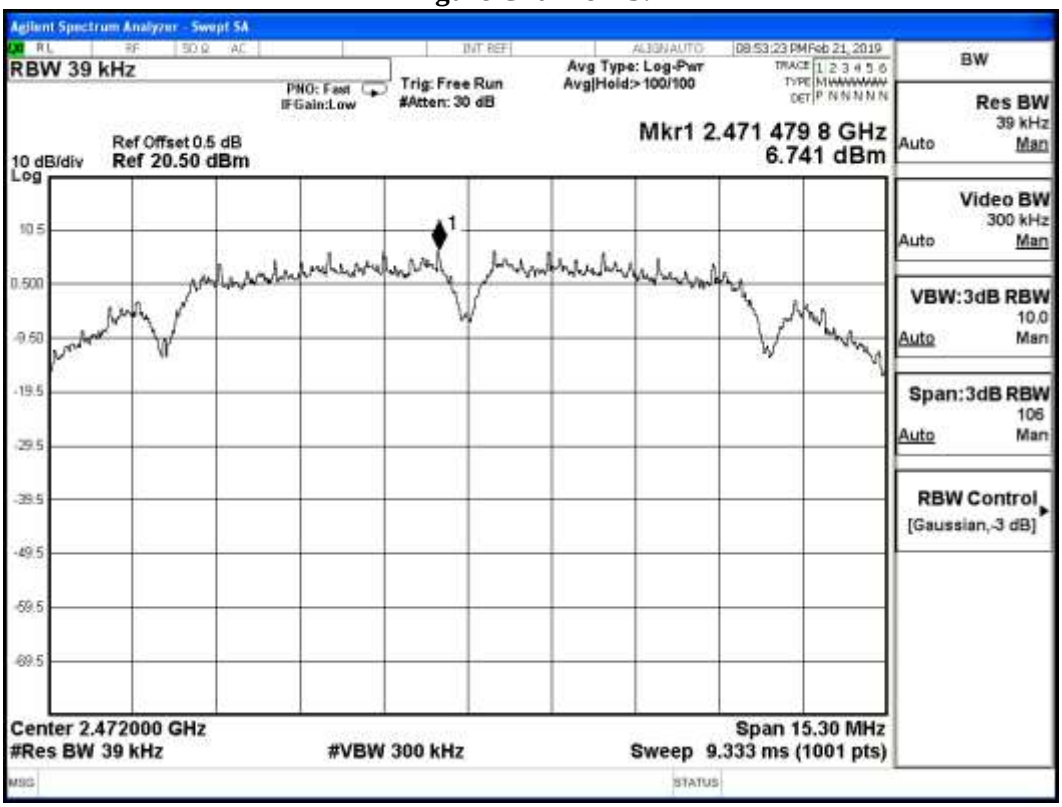


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW
測試項目：功率密度
測試頻道：- -
測試模式：Mode 1: SISO A: 發射器 802.11g
量測天線：- -
測試距離：Conducted
檢測器：峰值
環境溫度：20 ℃
測試日期：108 年 01 月 25 日
環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.76	≦8dBm	Pass
07	2442	7.73	≦8dBm	Pass
11	2462	3.89	≦8dBm	Pass
12	2467	2.47	≦8dBm	Pass
13	2472	3.03	≦8dBm	Pass

Figure Channel 01:

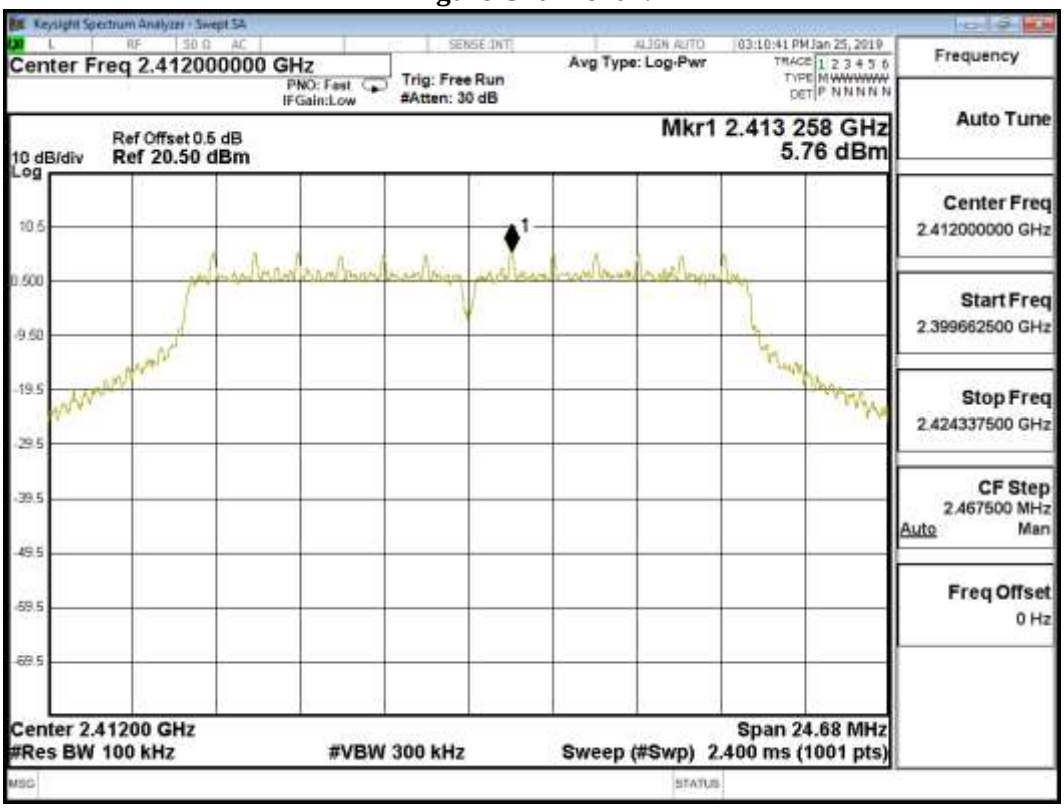


Figure Channel 07:

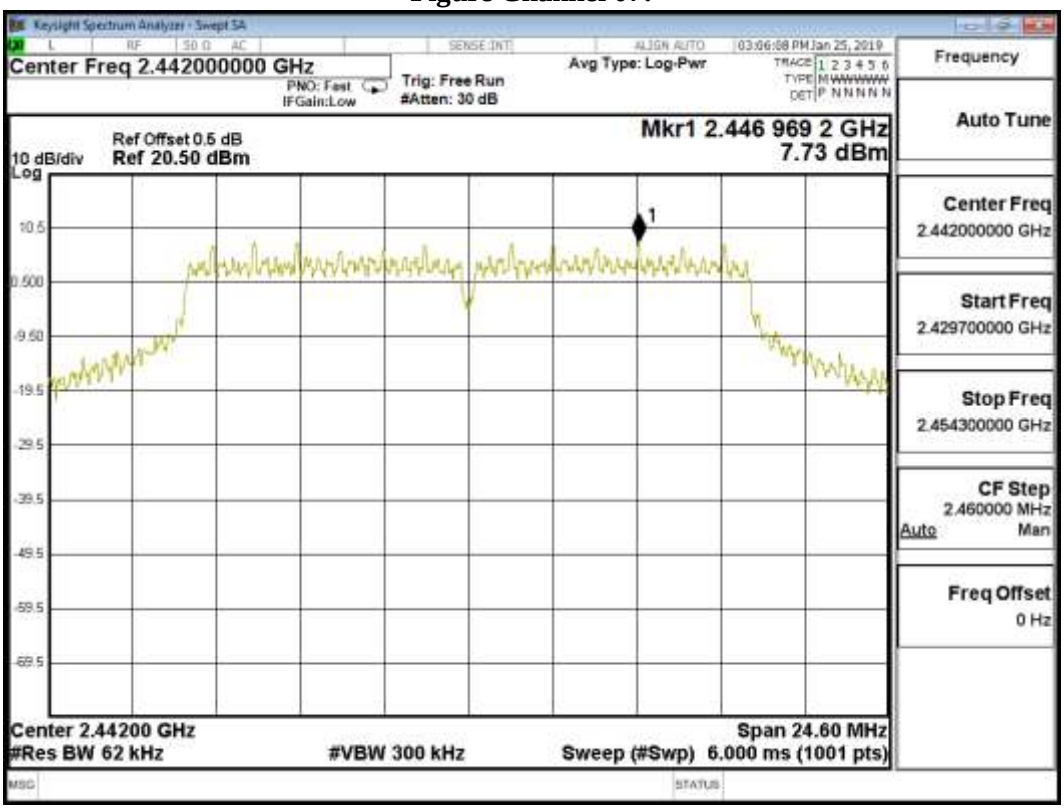


Figure Channel 11:

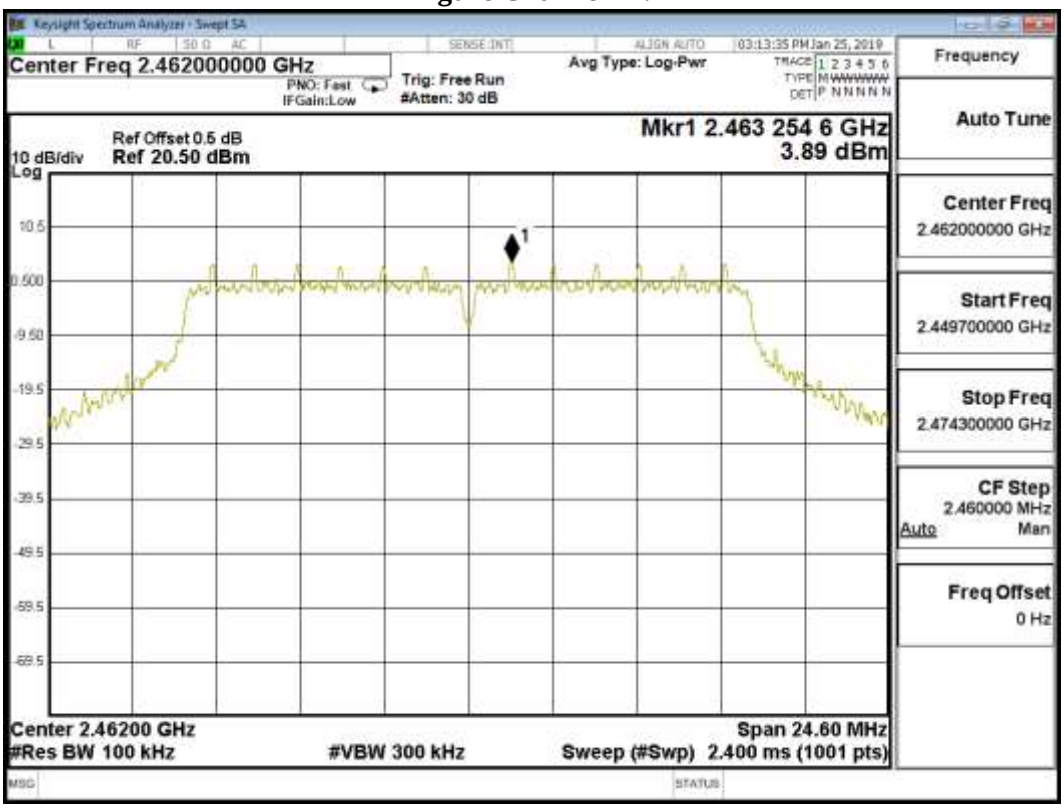


Figure Channel 12:

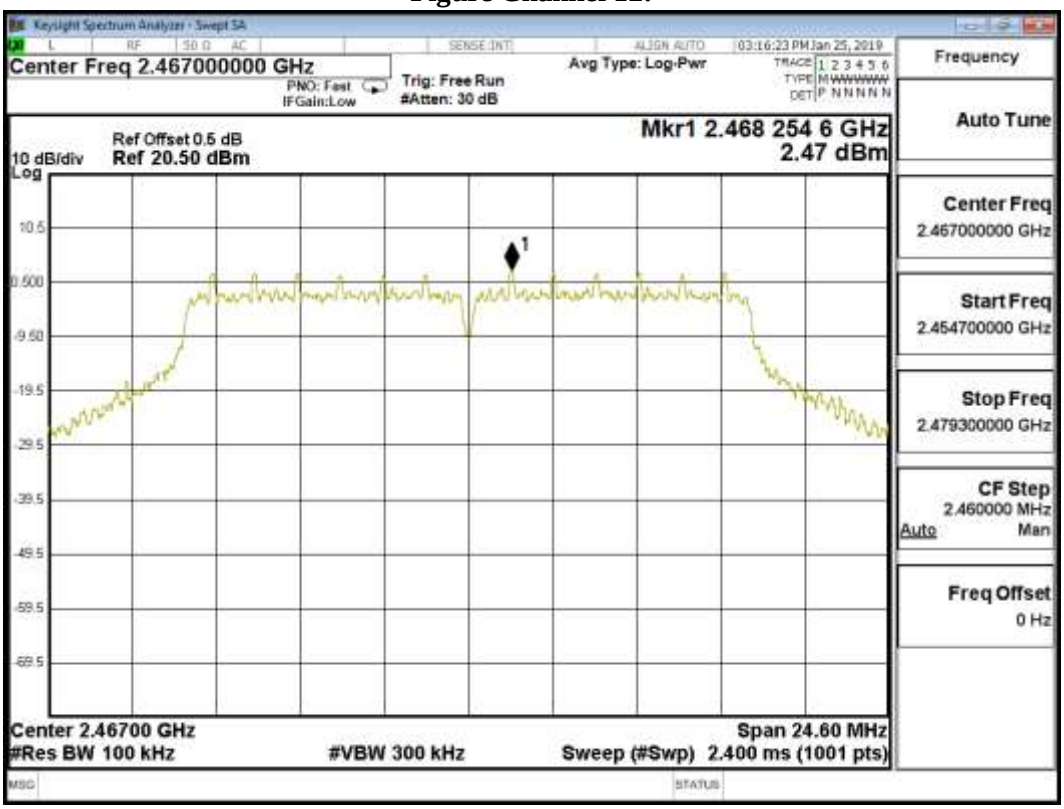
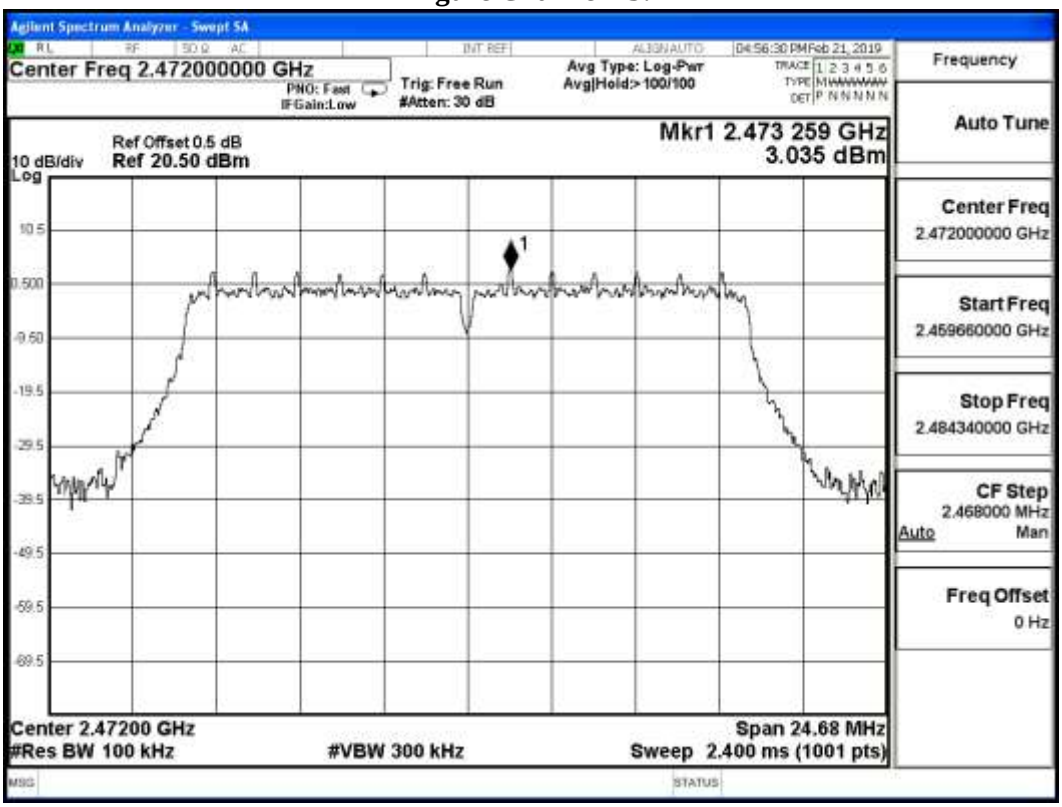


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW　　測 試 項 目 ：功率密度
測 試 頻 道 ：- -　　測 試 模 式 ：Mode 1: SISO A: 發射器 802.11n (20MHz)
量 測 天 線 ：- -　　測 試 距 離 ：Conducted
檢 測 器 ：峰值　　環 境 溫 度 ：20 ℃
測 試 日 期 ：108 年 01 月 25 日　　環 境 濕 度 ：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.73	≦8dBm	Pass
07	2442	7.96	≦8dBm	Pass
11	2462	3.85	≦8dBm	Pass
12	2467	2.41	≦8dBm	Pass
13	2472	2.52	≦8dBm	Pass

Figure Channel 01:

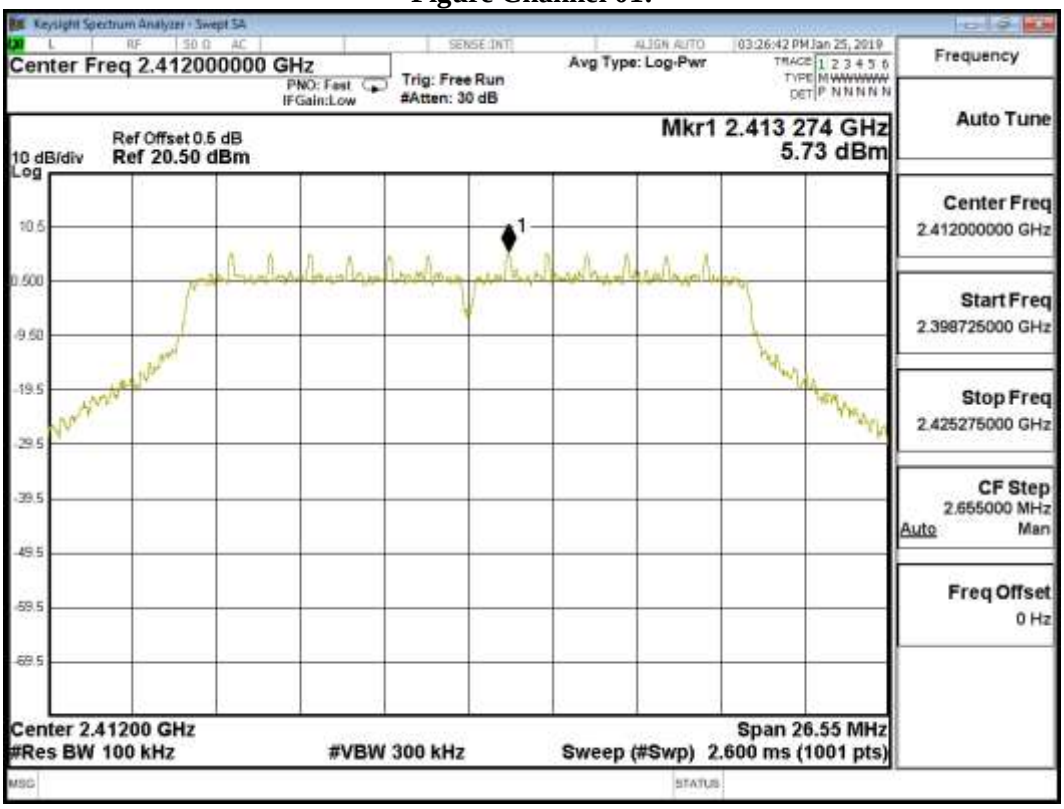


Figure Channel 07:

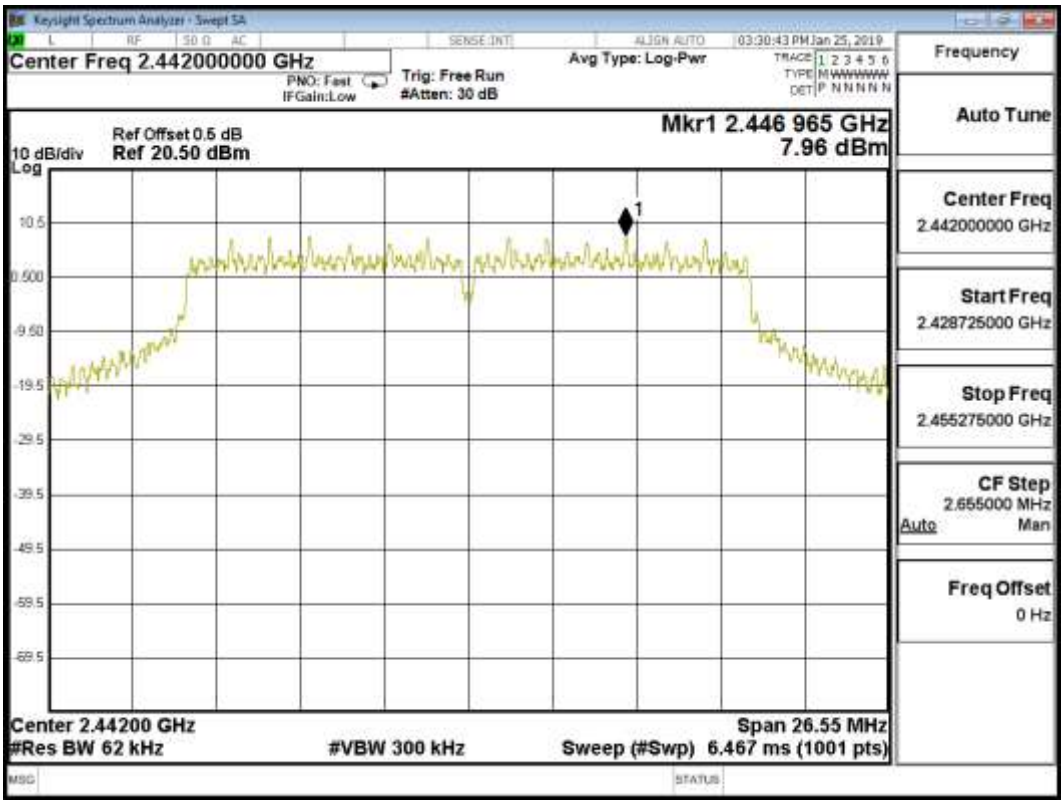


Figure Channel 11:

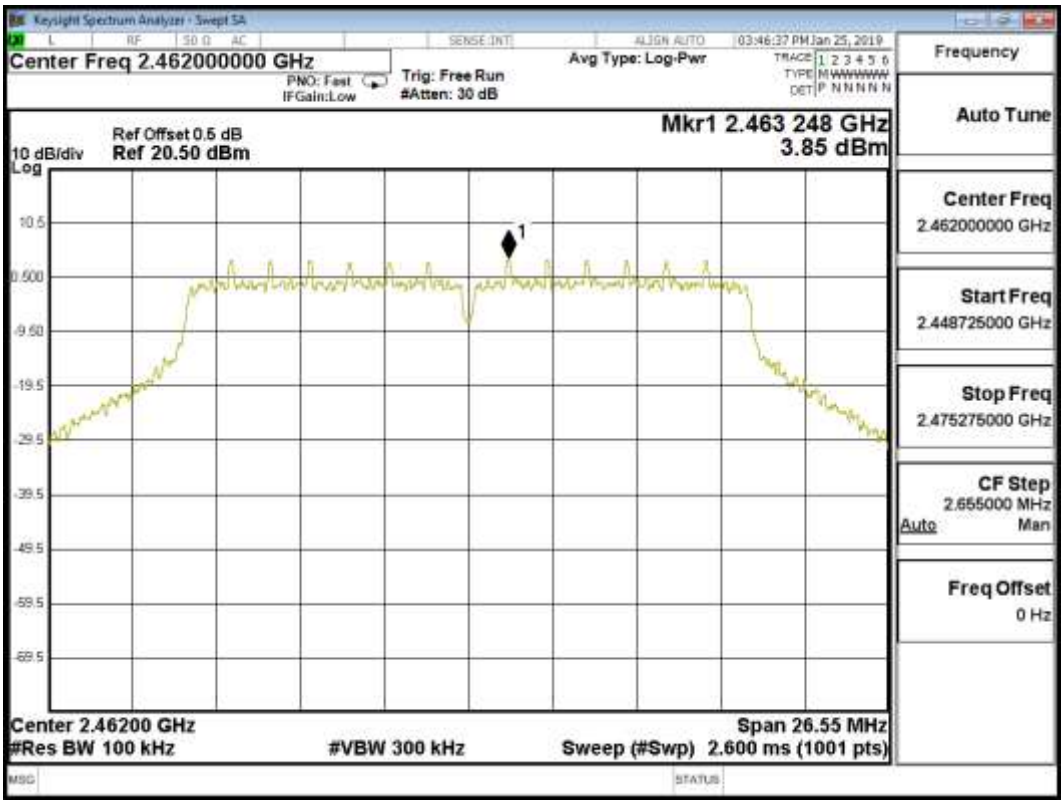


Figure Channel 12:

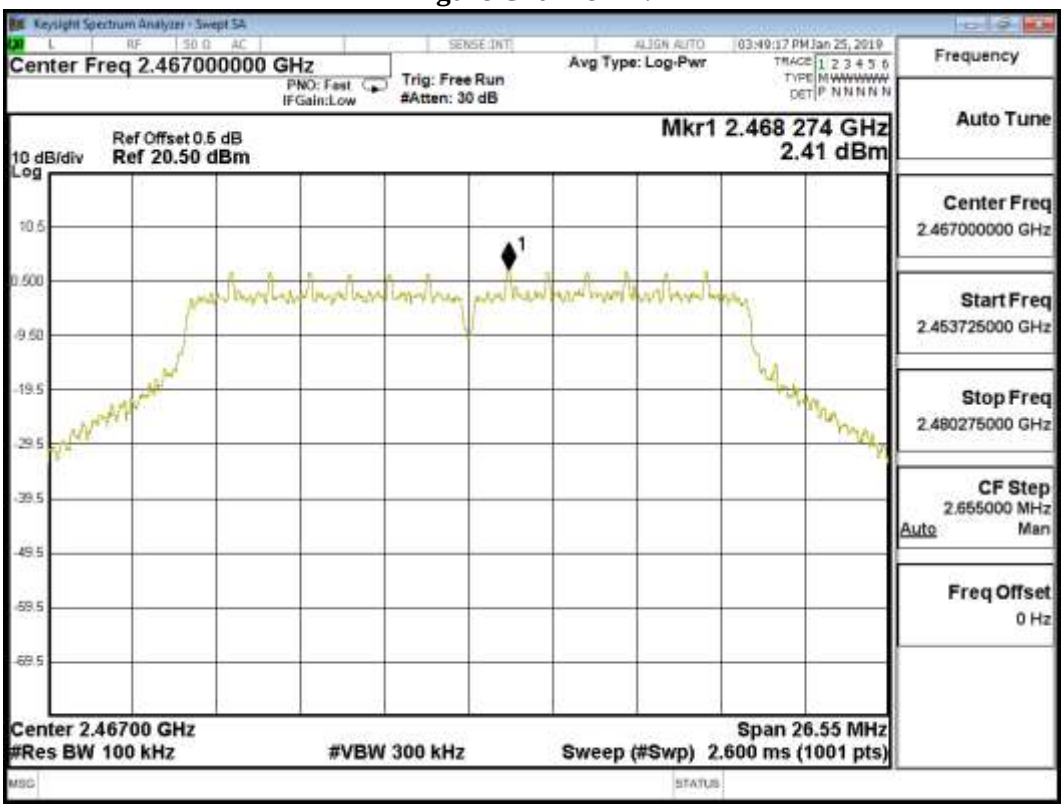
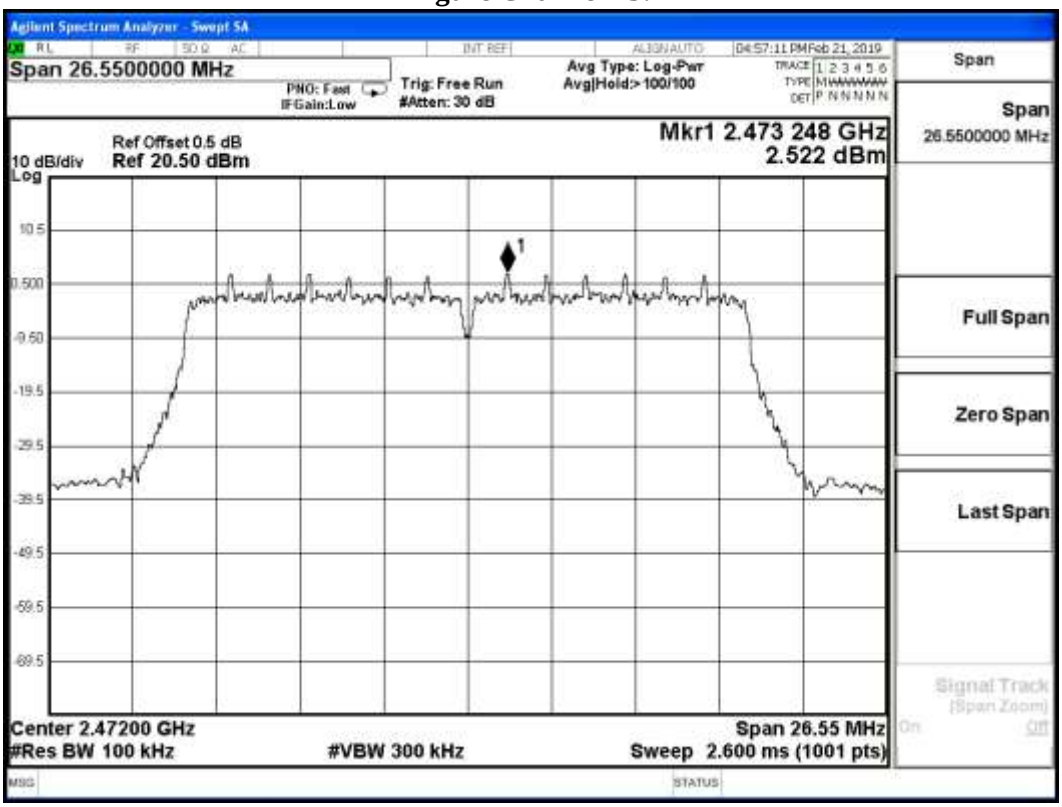


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW　　測 試 項 目 ：功率密度
測 試 頻 道 ：- -　　測 試 模 式 ：Mode 1: SISO A: 發射器 802.11n (40MHz)
量 測 天 線 ：- -　　測 試 距 離 ：Conducted
檢 測 器 ：峰值　　環 境 溫 度 ：20 ℃
測 試 日 期 ：108 年 01 月 25 日　　環 境 濕 度 ：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	3.13	≦8dBm	Pass
07	2442	2.53	≦8dBm	Pass
09	2452	0.47	≦8dBm	Pass
10	2457	-1.97	≦8dBm	Pass
11	2462	0.25	≦8dBm	Pass

Figure Channel 03:

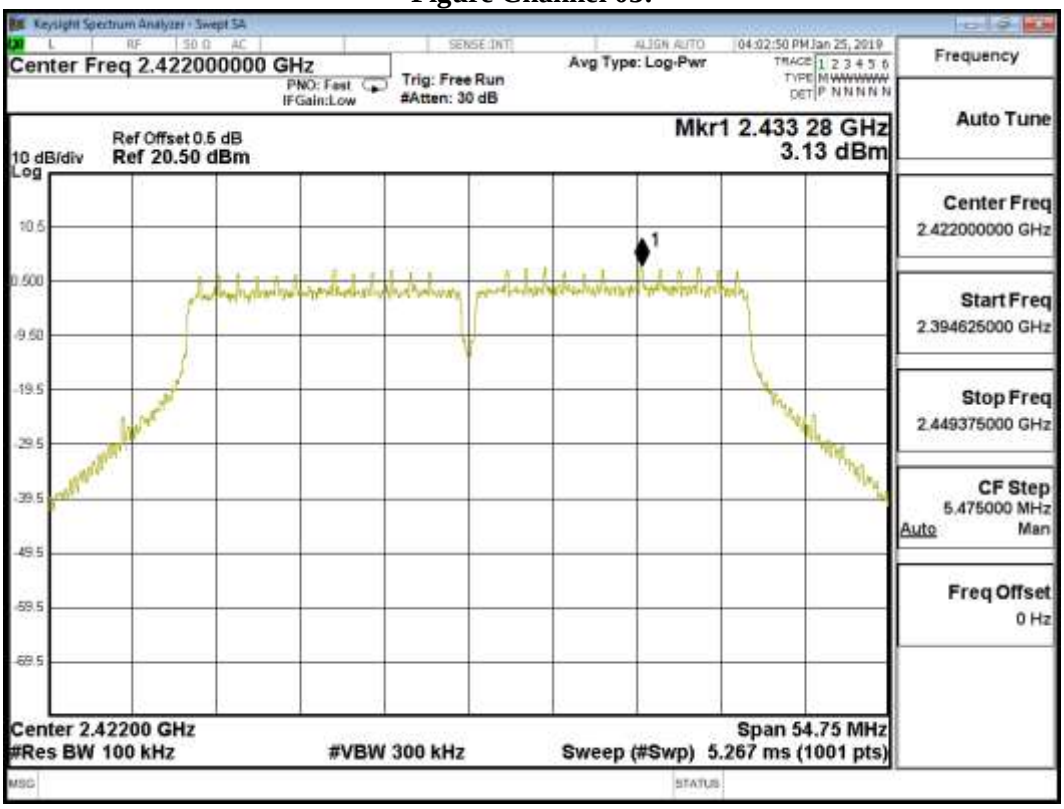


Figure Channel 07:

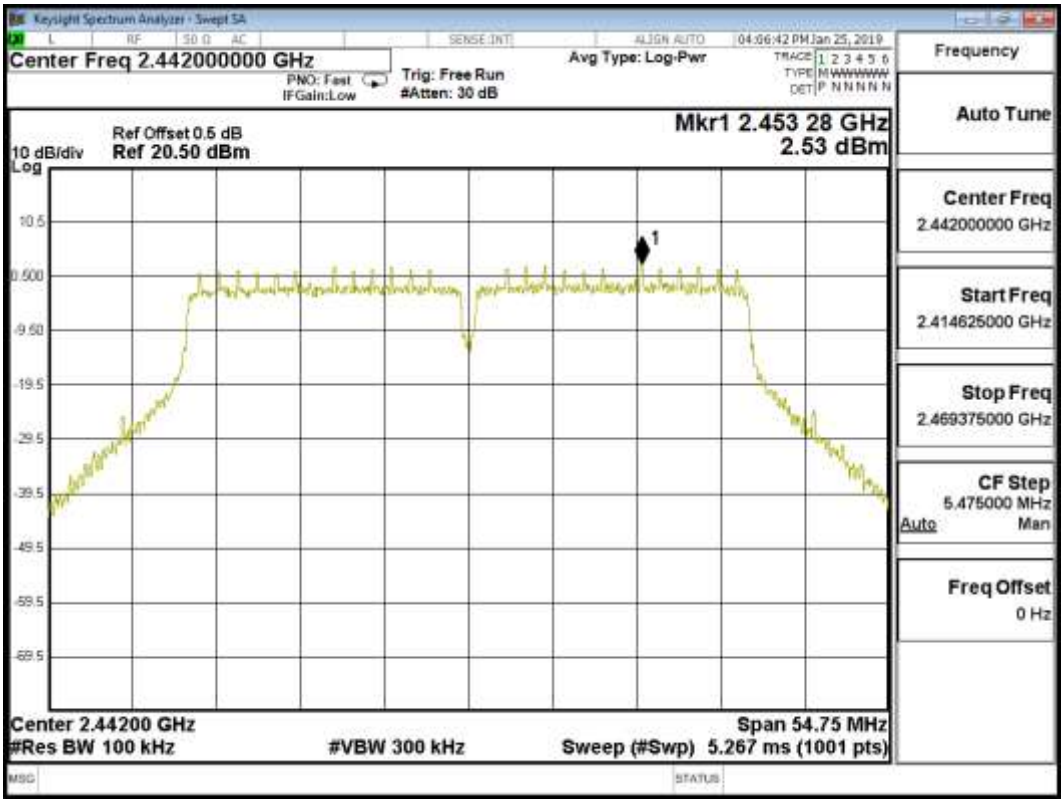


Figure Channel 09:

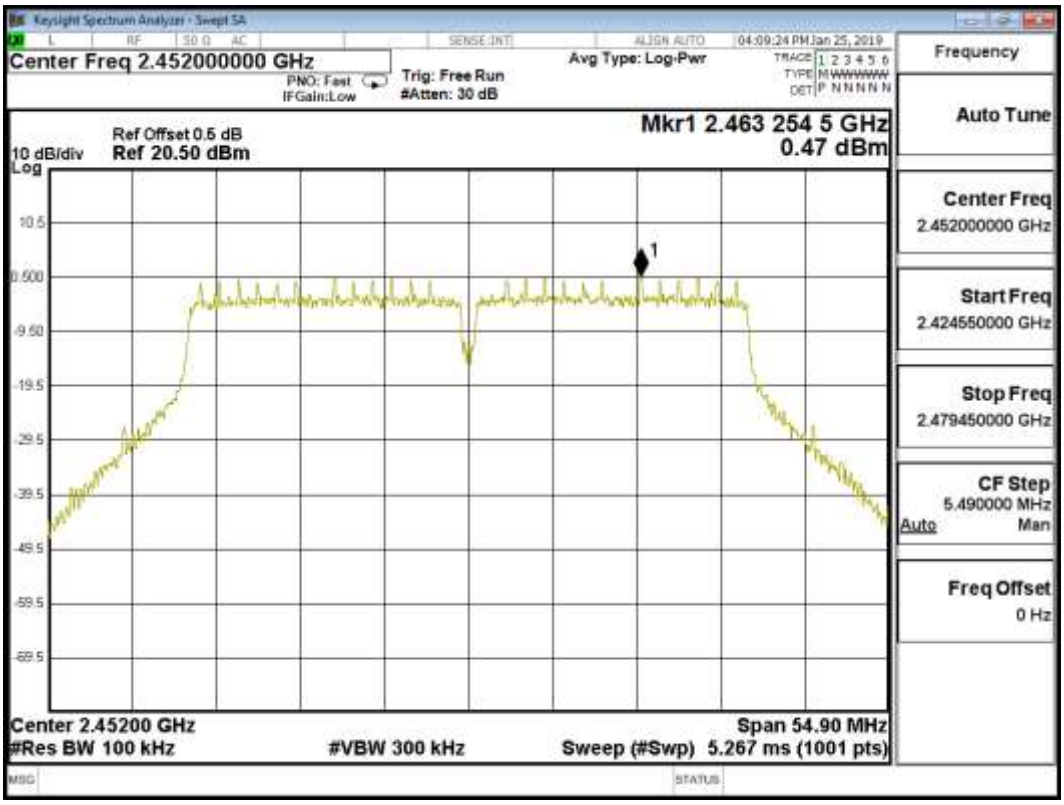


Figure Channel 10:

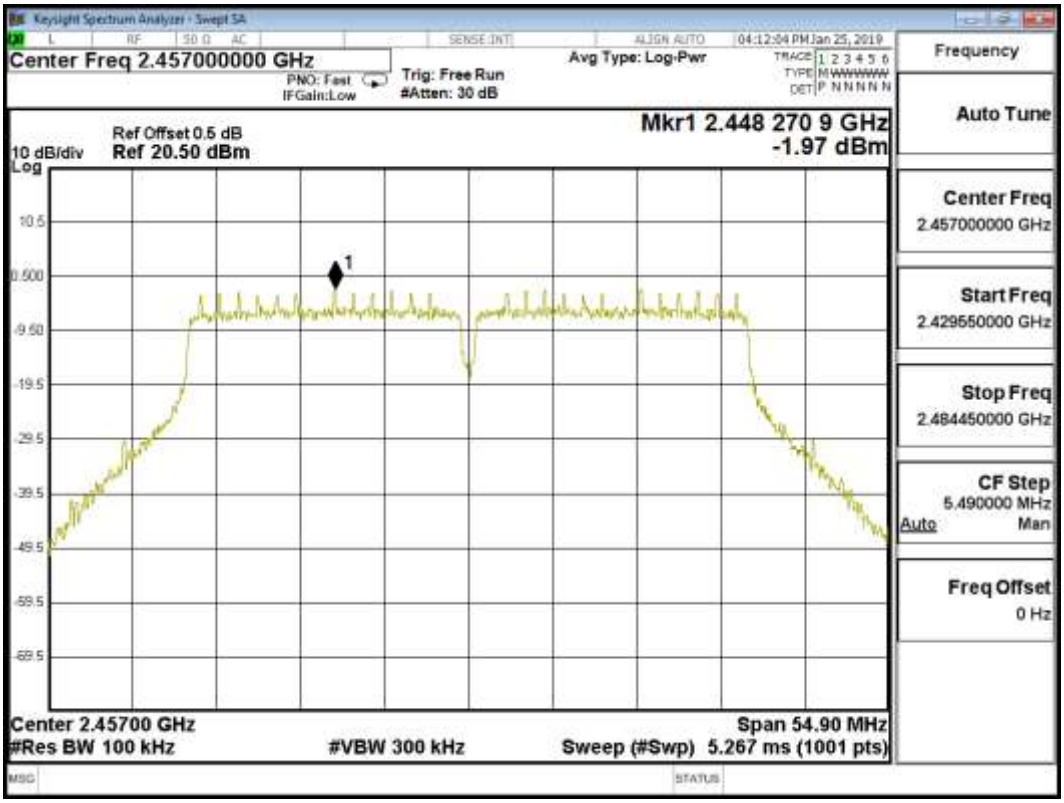
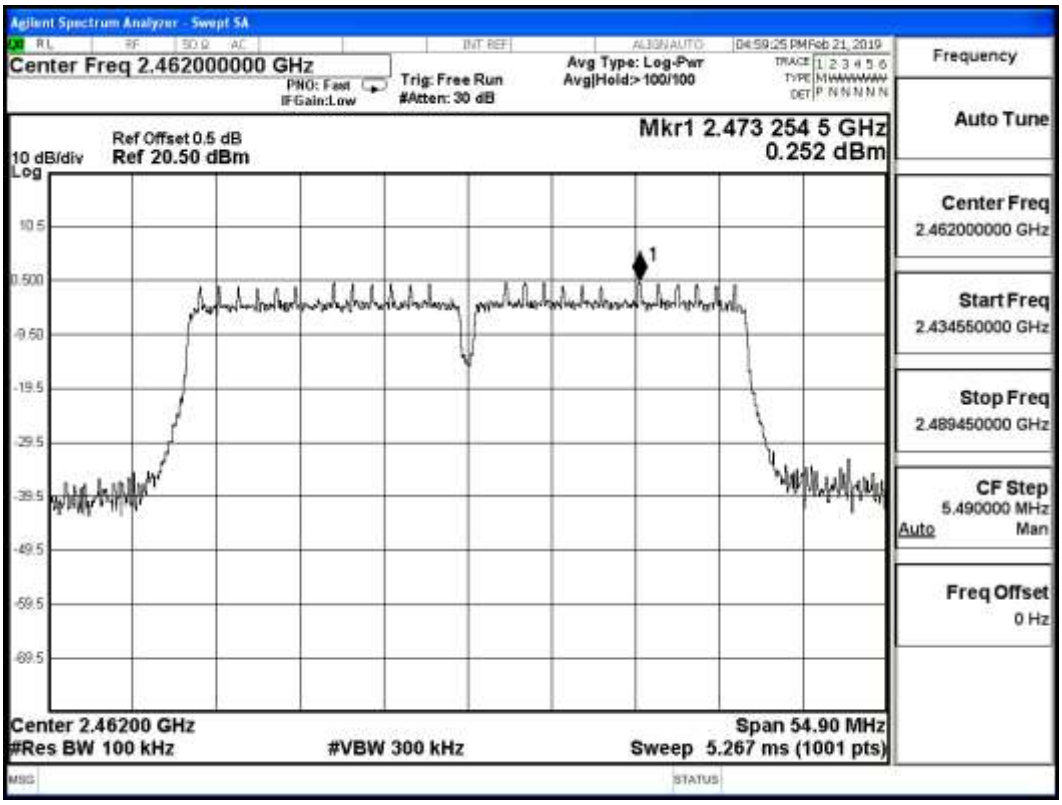


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW
測試項目：功率密度
測試頻道：- -
測試模式：Mode 2: SISO B: 發射器 802.11b
量測天線：- -
測試距離：Conducted
檢測器：峰值
環境溫度：20 ℃
測試日期：108 年 01 月 25 日
環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	7.17	≦8dBm	Pass
07	2442	6.78	≦8dBm	Pass
11	2462	7.21	≦8dBm	Pass
12	2467	7.8	≦8dBm	Pass
13	2472	7.46	≦8dBm	Pass

Figure Channel 01:

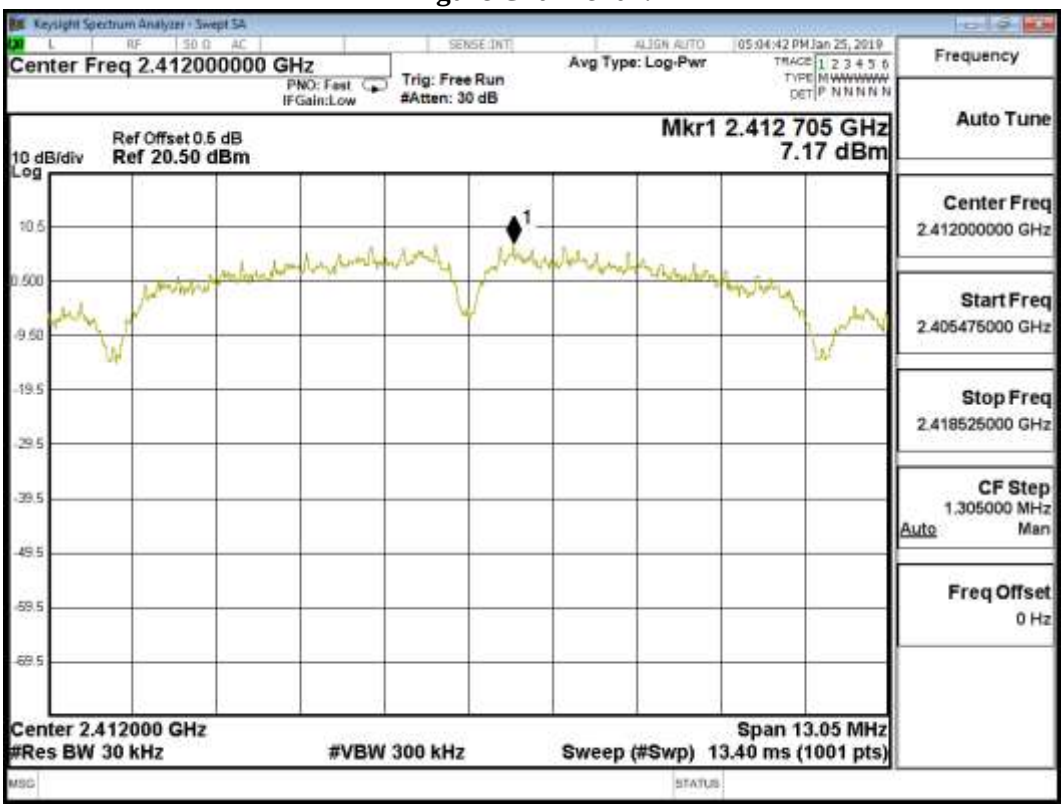


Figure Channel 07:

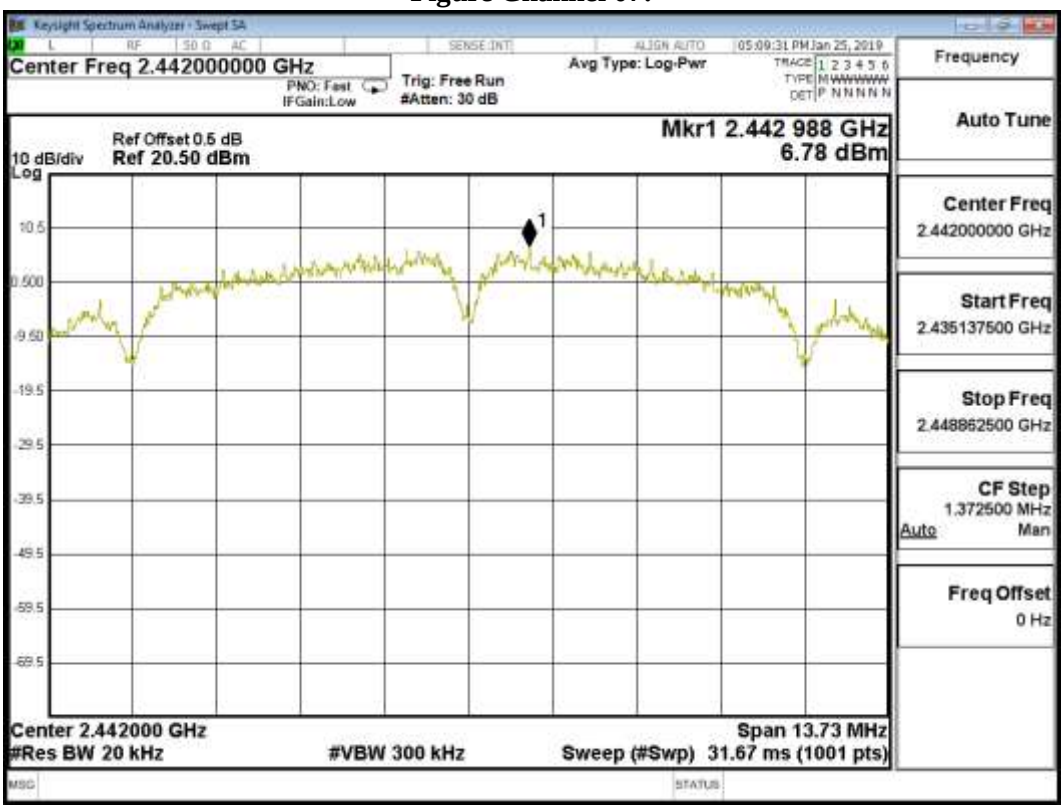


Figure Channel 11:

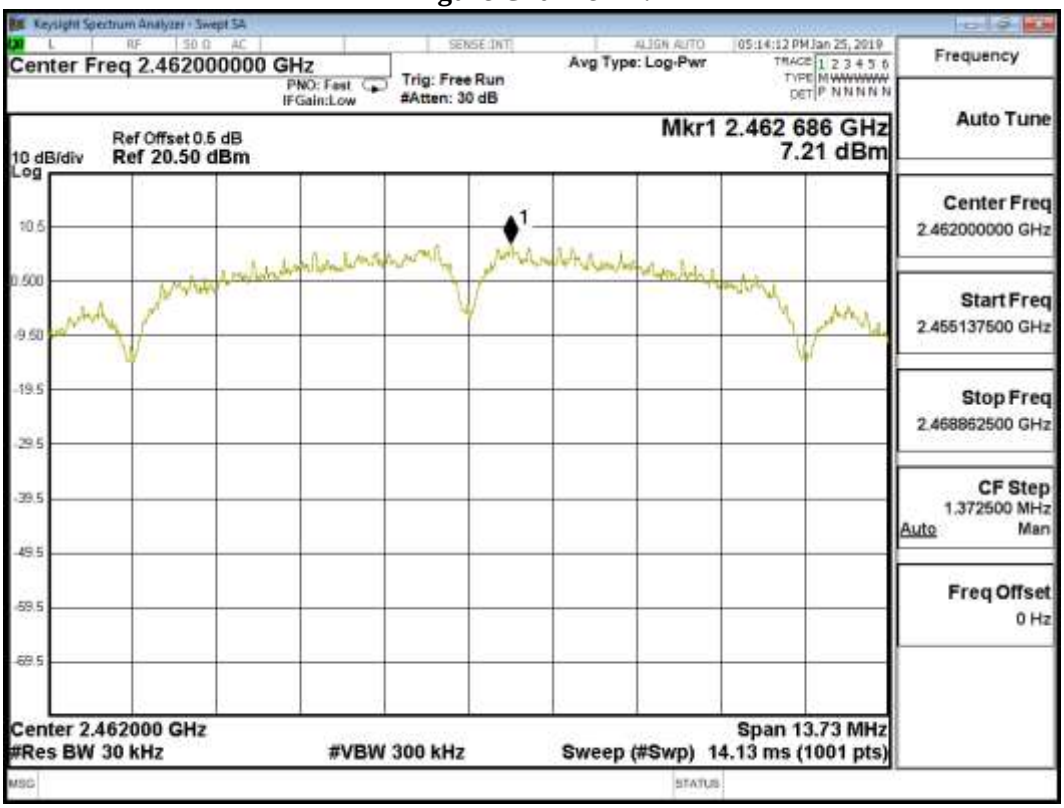


Figure Channel 12:

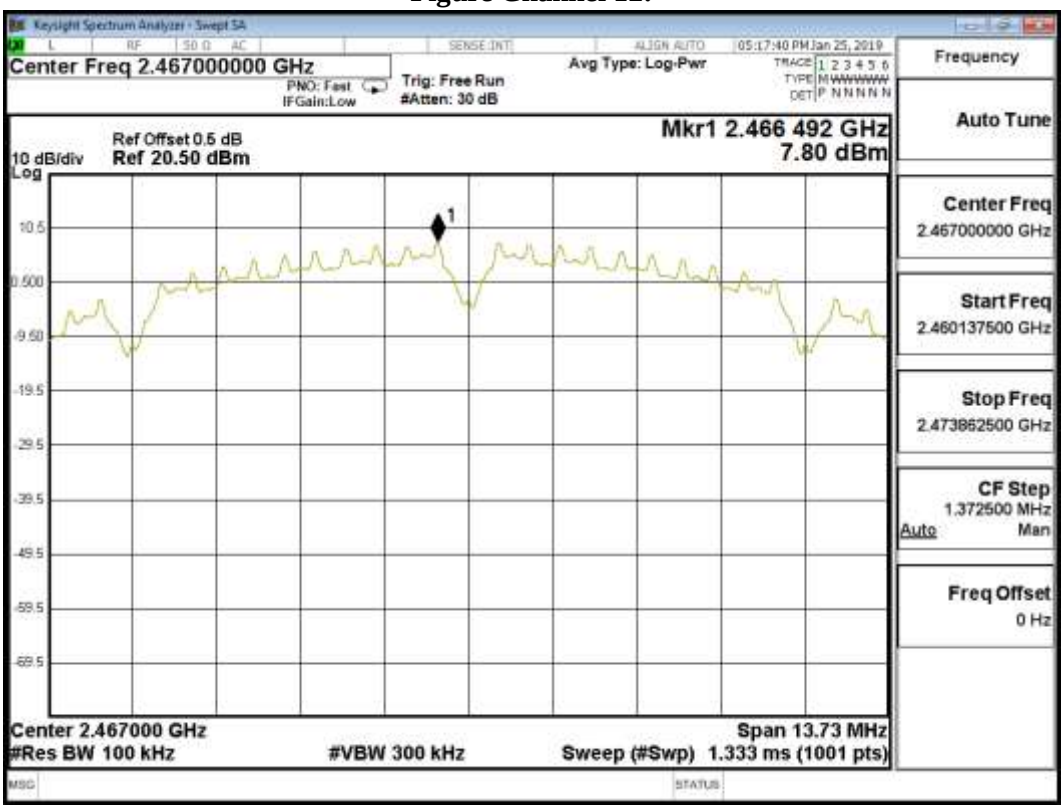
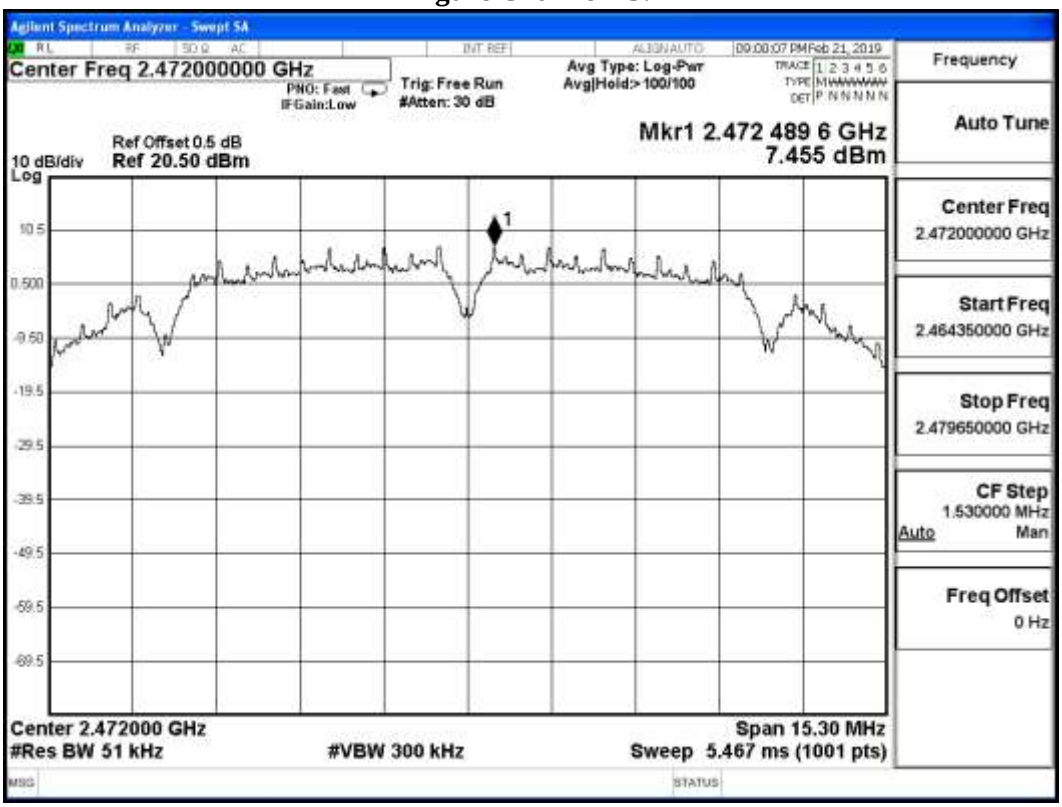


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW
測試項目：功率密度
測試頻道：- -
測試模式：Mode 2: SISO B: 發射器 802.11g
量測天線：- -
測試距離：Conducted
檢測器：峰值
環境溫度：20 ℃
測試日期：108 年 01 月 25 日
環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.49	≦8dBm	Pass
07	2442	7.63	≦8dBm	Pass
11	2462	4.28	≦8dBm	Pass
12	2467	2.35	≦8dBm	Pass
13	2472	-1.52	≦8dBm	Pass

Figure Channel 01:

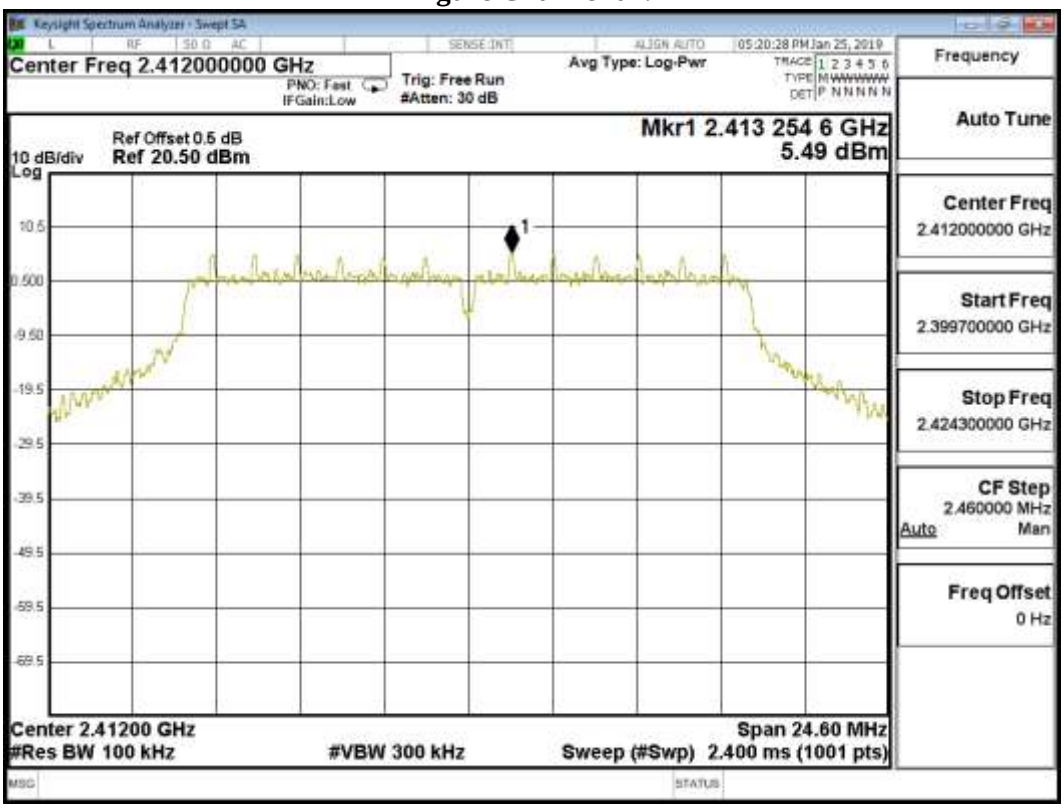


Figure Channel 07:

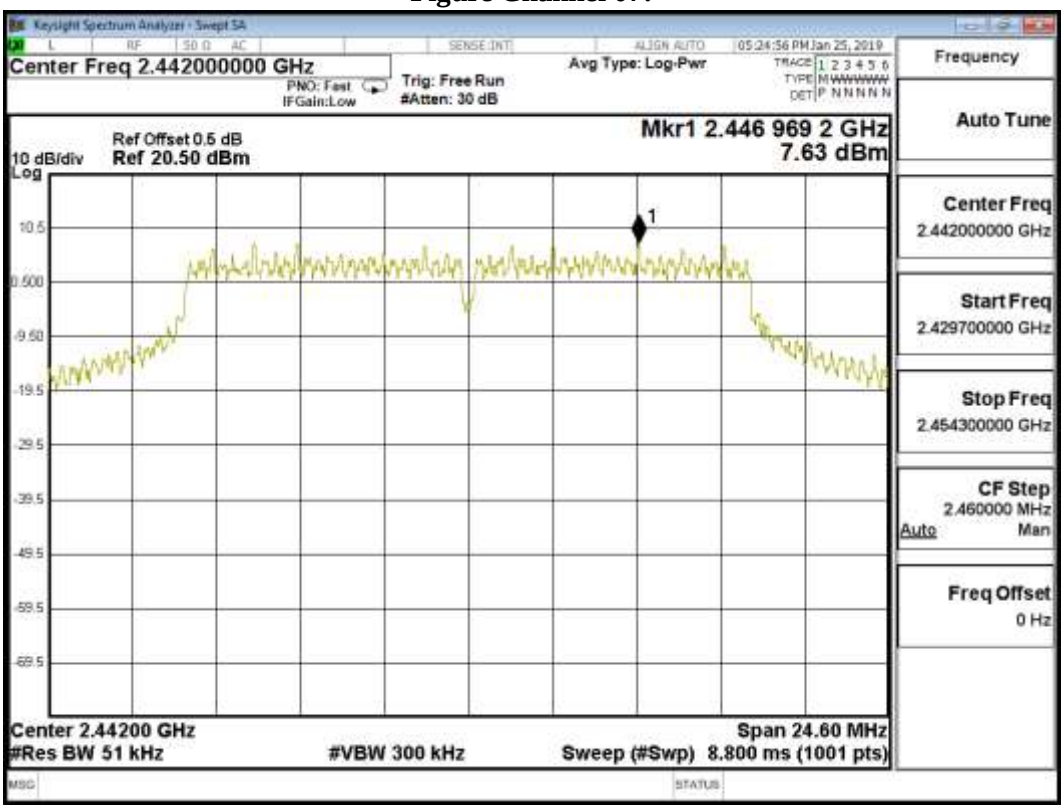


Figure Channel 11:

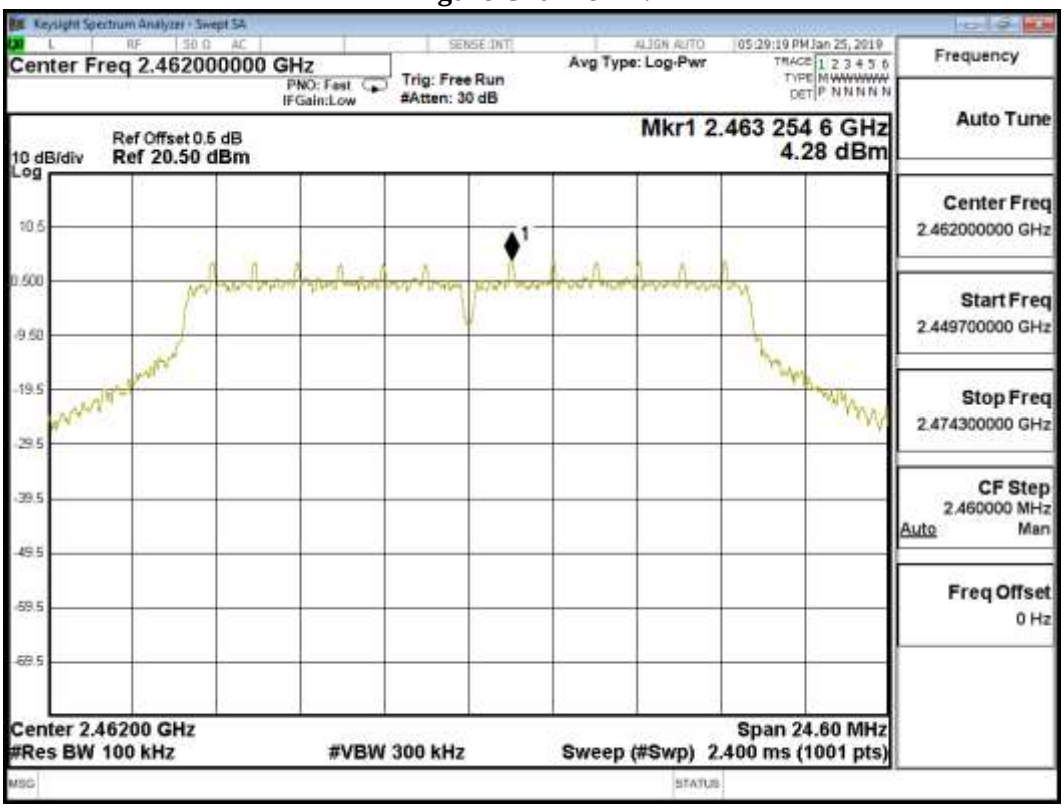


Figure Channel 12:

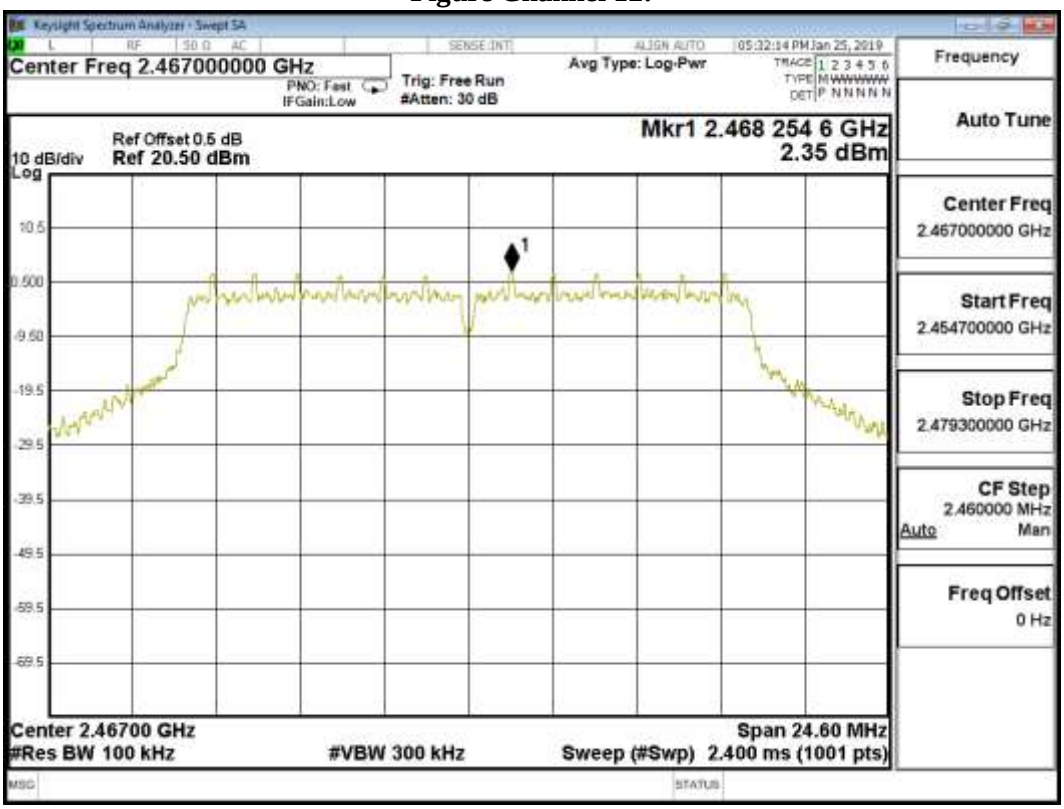
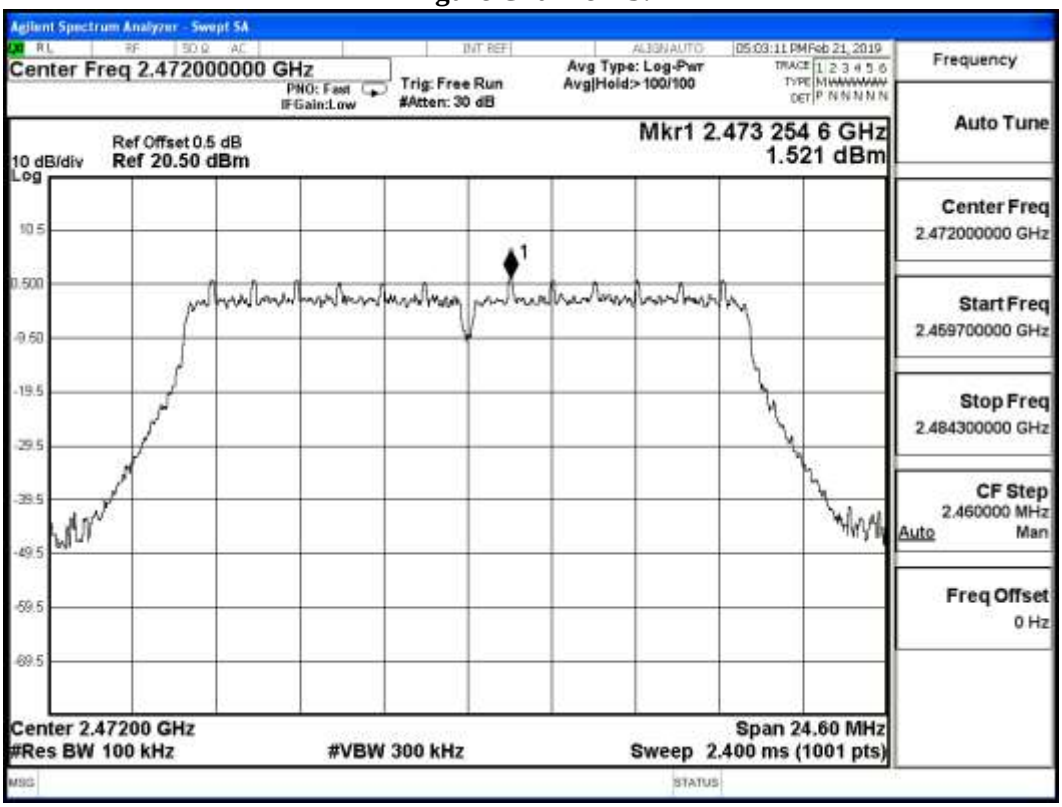


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW　　測 試 項 目 ：功率密度
測 試 頻 道 ：- -　　測 試 模 式 ：Mode 2: SISO B: 發射器 802.11n (20MHz)
量 測 天 線 ：- -　　測 試 距 離 ：Conducted
檢 測 器 ：峰值　　環 境 溫 度 ：20 ℃
測 試 日 期 ：108 年 01 月 25 日　　環 境 濕 度 ：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.52	≦8dBm	Pass
07	2442	7.72	≦8dBm	Pass
11	2462	4.27	≦8dBm	Pass
12	2467	2.33	≦8dBm	Pass
13	2472	1.03	≦8dBm	Pass

Figure Channel 01:

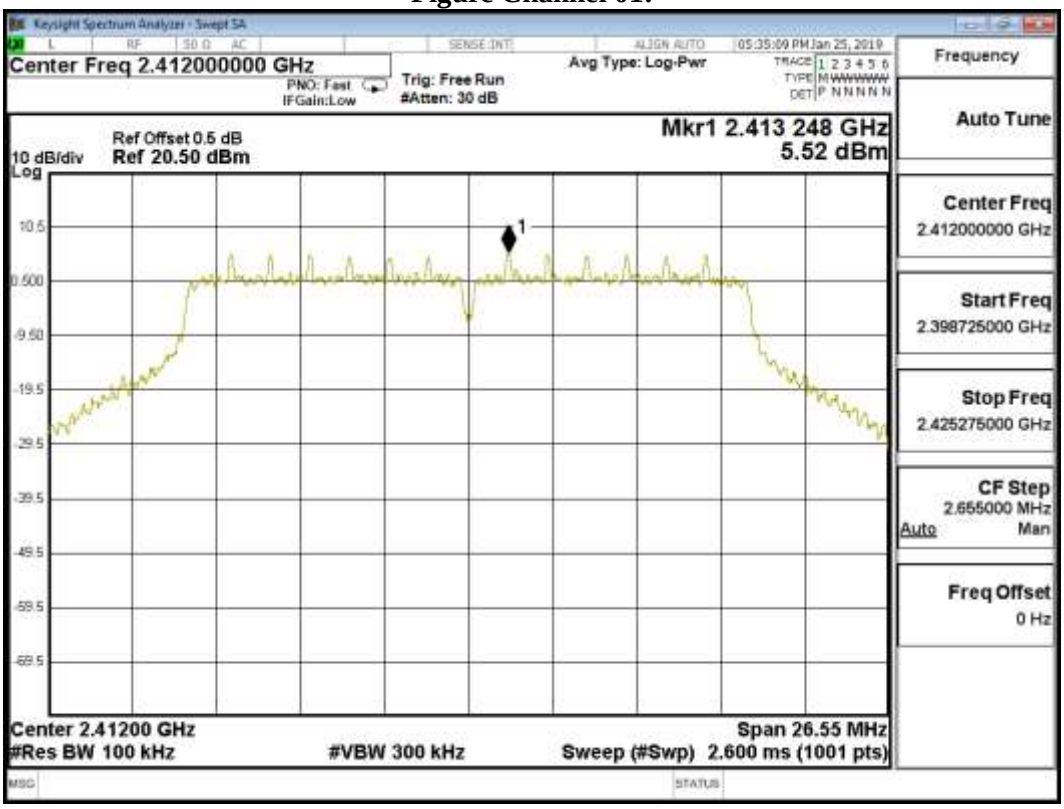


Figure Channel 07:

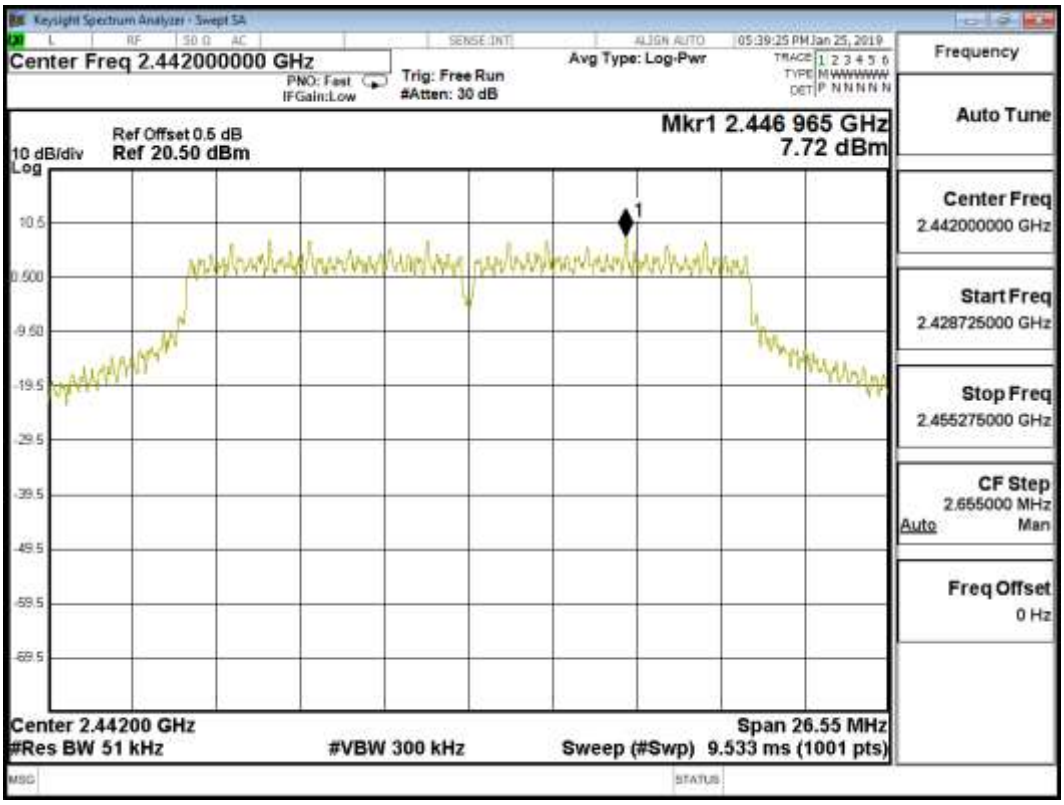


Figure Channel 11:

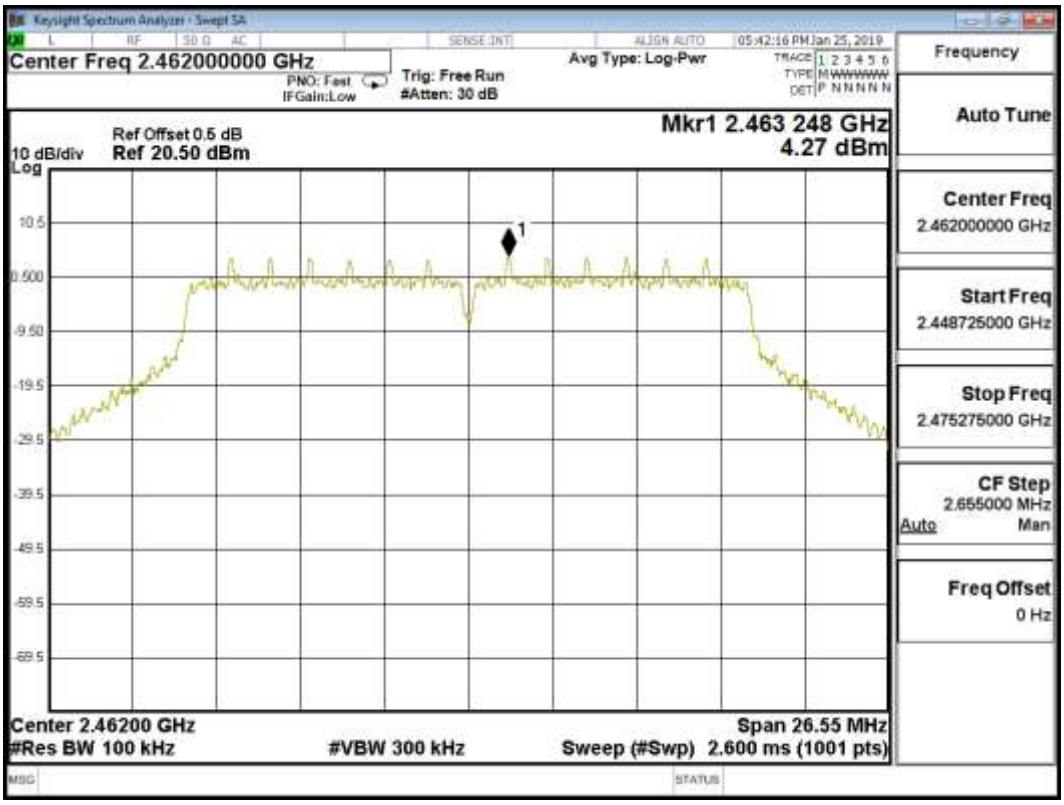


Figure Channel 12:

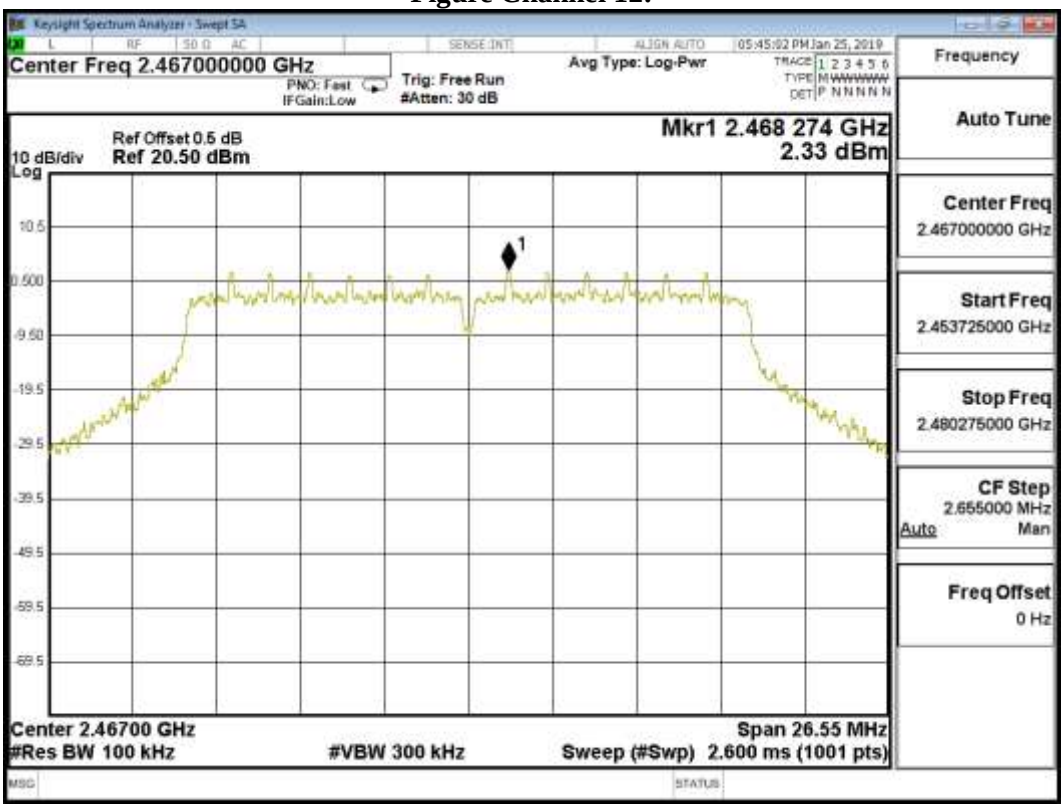
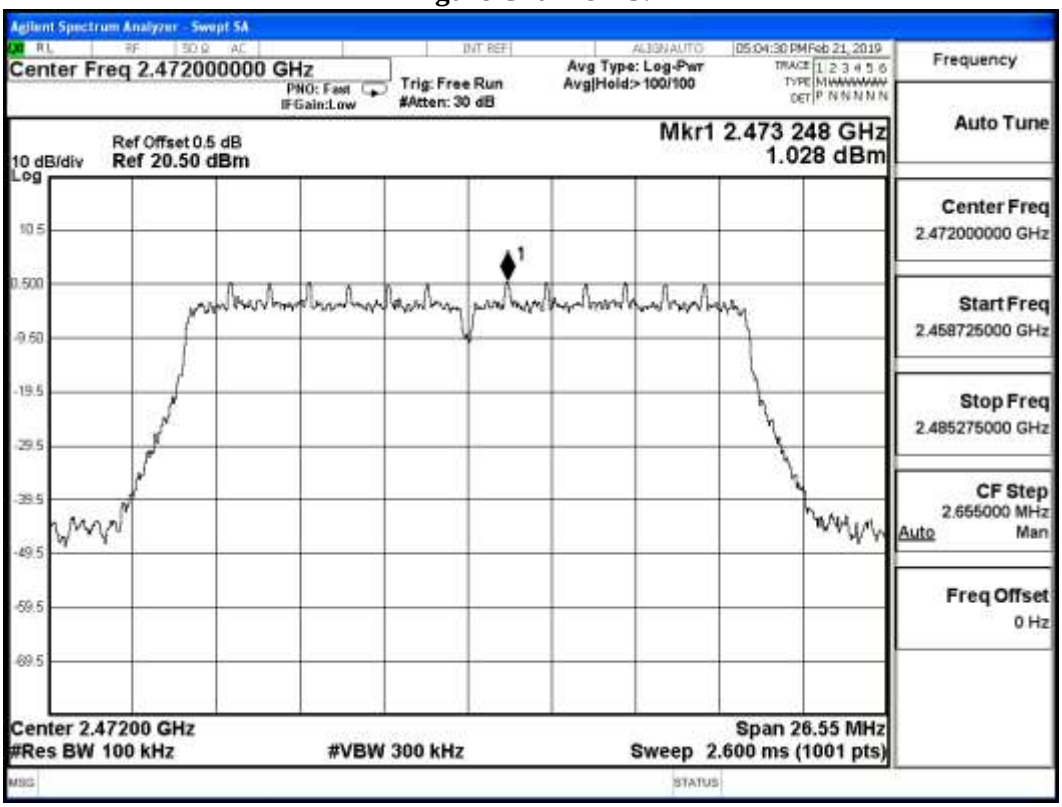


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW
測試頻道：- -
量測天線：- -
檢測器：峰值
測試日期：108 年 01 月 25 日
測試項目：功率密度
測試模式：Mode 2: SISO B: 發射器 802.11n (40MHz)
測試距離：Conducted
環境溫度：20 ℃
環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	3.13	≦8dBm	Pass
07	2442	3.15	≦8dBm	Pass
09	2452	1.22	≦8dBm	Pass
10	2457	-1.79	≦8dBm	Pass
11	2462	-1.24	≦8dBm	Pass

Figure Channel 03:

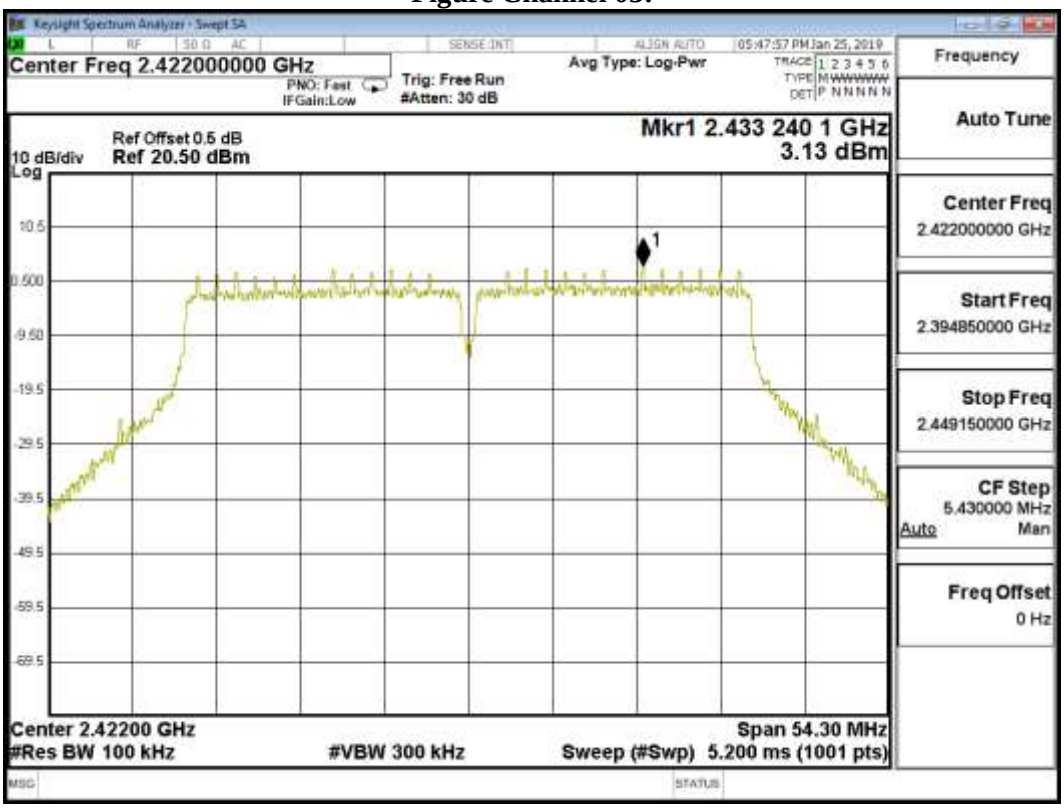


Figure Channel 07:

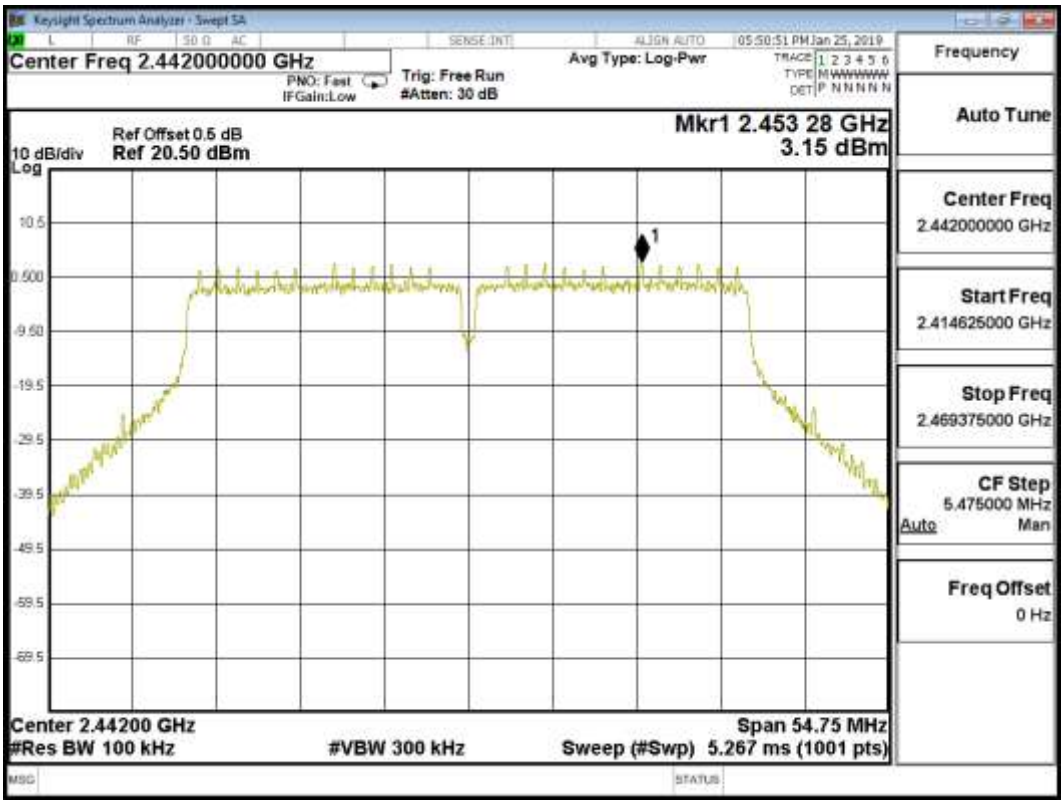


Figure Channel 09:

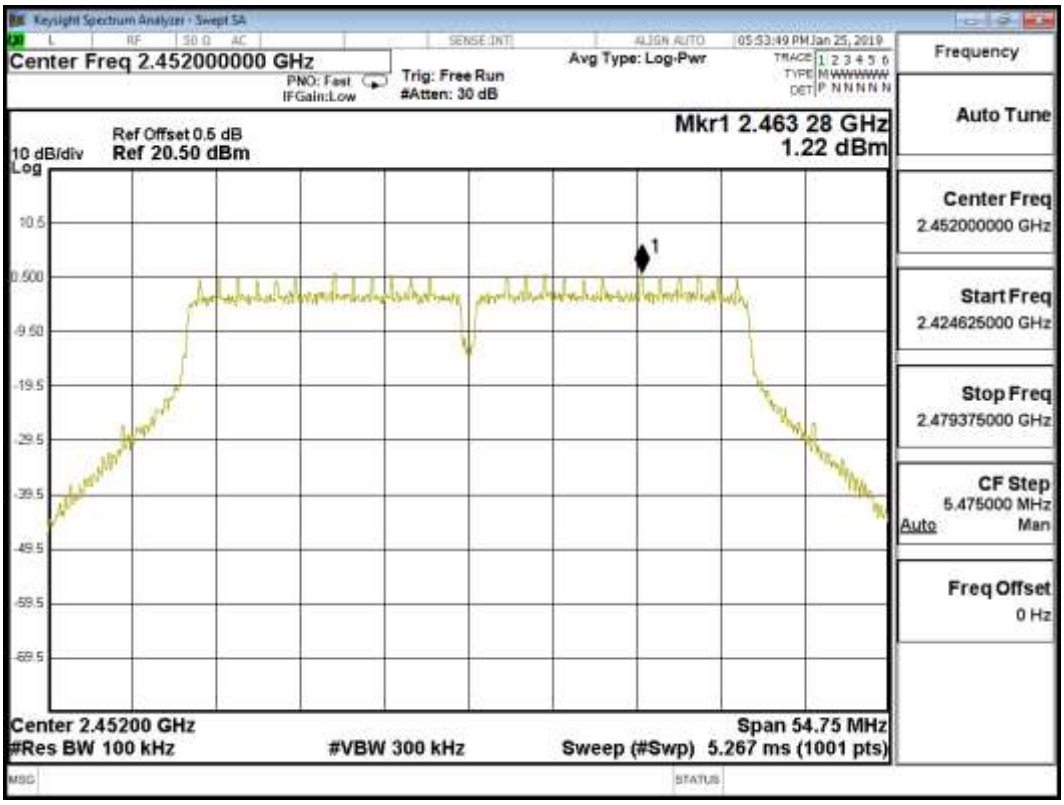


Figure Channel 10:

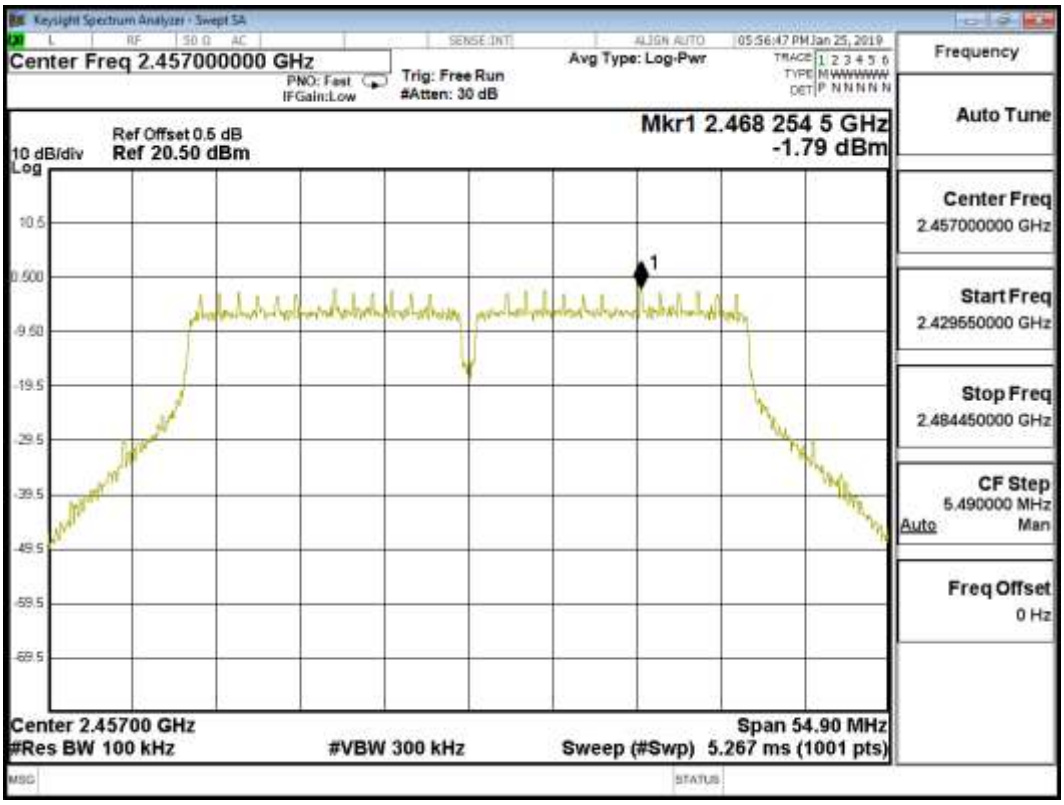
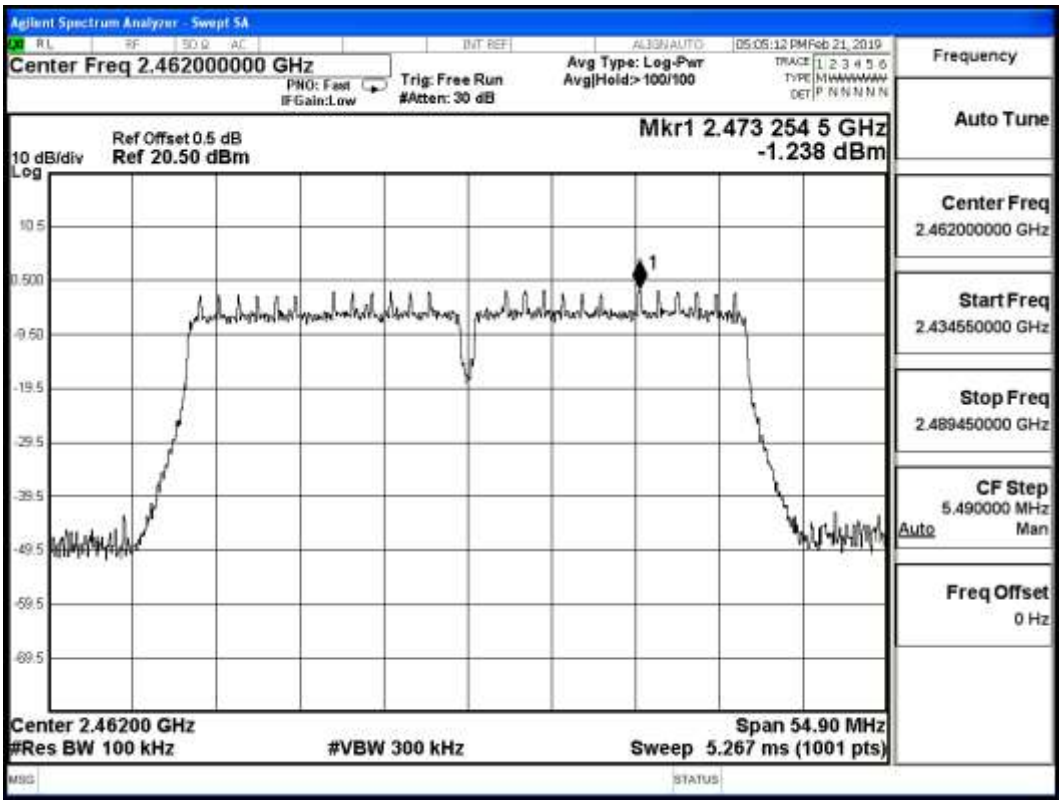


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 3: MIMO: 發射器 802.11n (20MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：108 年 01 月 28 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Chain	PPSD/MHz (dBm)	10*log(2) (dB)	Measure Level (dBm)	Limit (dBm)	Result
01	2412.000	A	4.220	3.010	7.230	≦8dBm	Pass
		B	3.870	3.010	6.880	≦8dBm	Pass
07	2442.000	A	4.230	3.010	7.240	≦8dBm	Pass
		B	4.360	3.010	7.370	≦8dBm	Pass
11	2462.000	A	2.850	3.010	5.860	≦8dBm	Pass
		B	2.510	3.010	5.520	≦8dBm	Pass
12	2467.00	A	0.920	3.010	3.930	≦8dBm	Pass
		B	0.480	3.010	3.490	≦8dBm	Pass
13	2472.00	A	2.225	3.010	5.235	≦8dBm	Pass
		B	1.669	3.010	4.679	≦8dBm	Pass

Note:
The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 01: (Chain A)

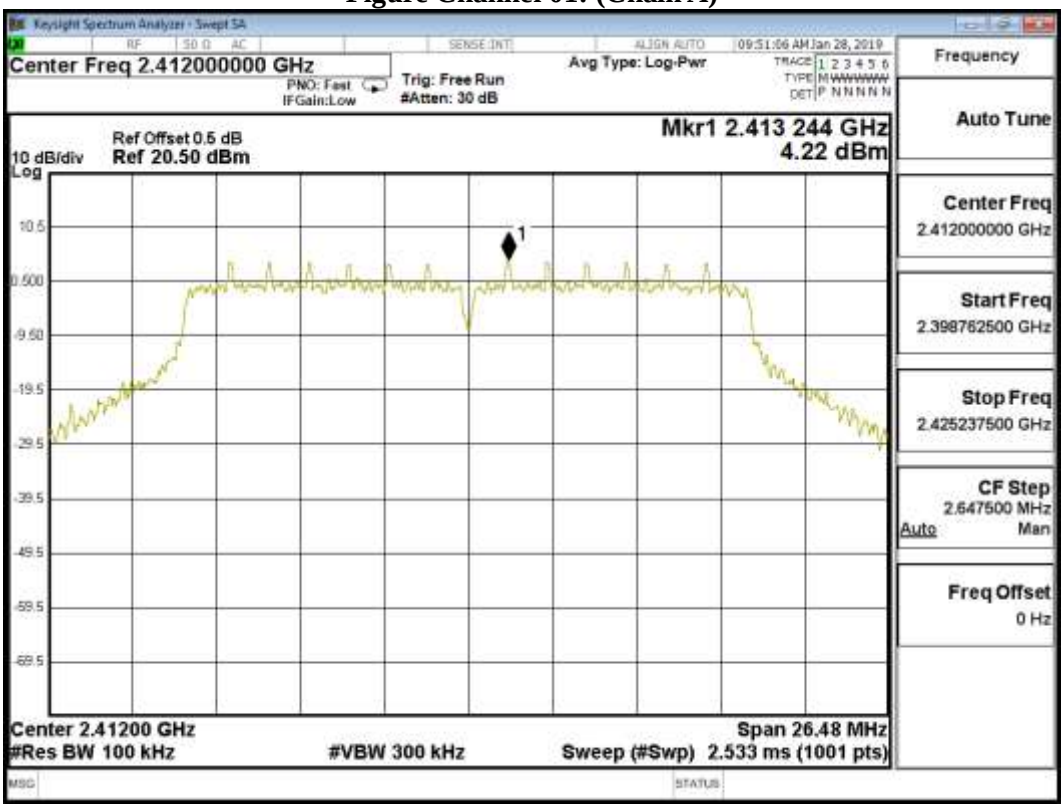


Figure Channel 01: (Chain B)

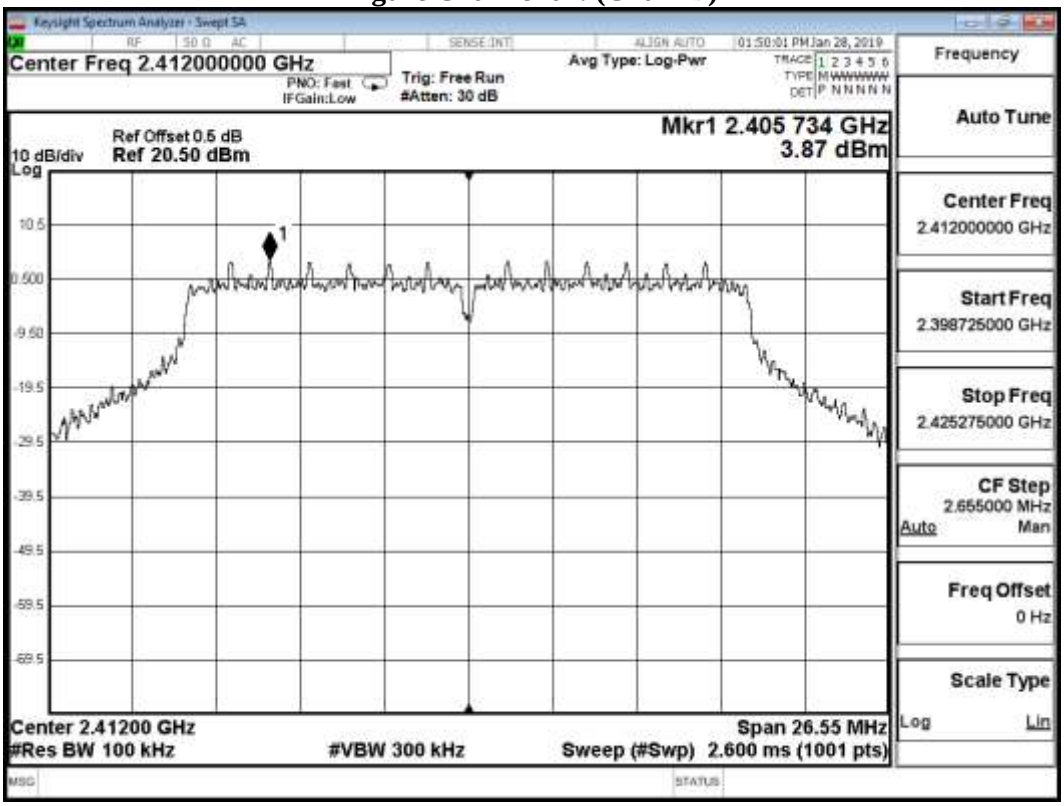


Figure Channel 07: (Chain A)

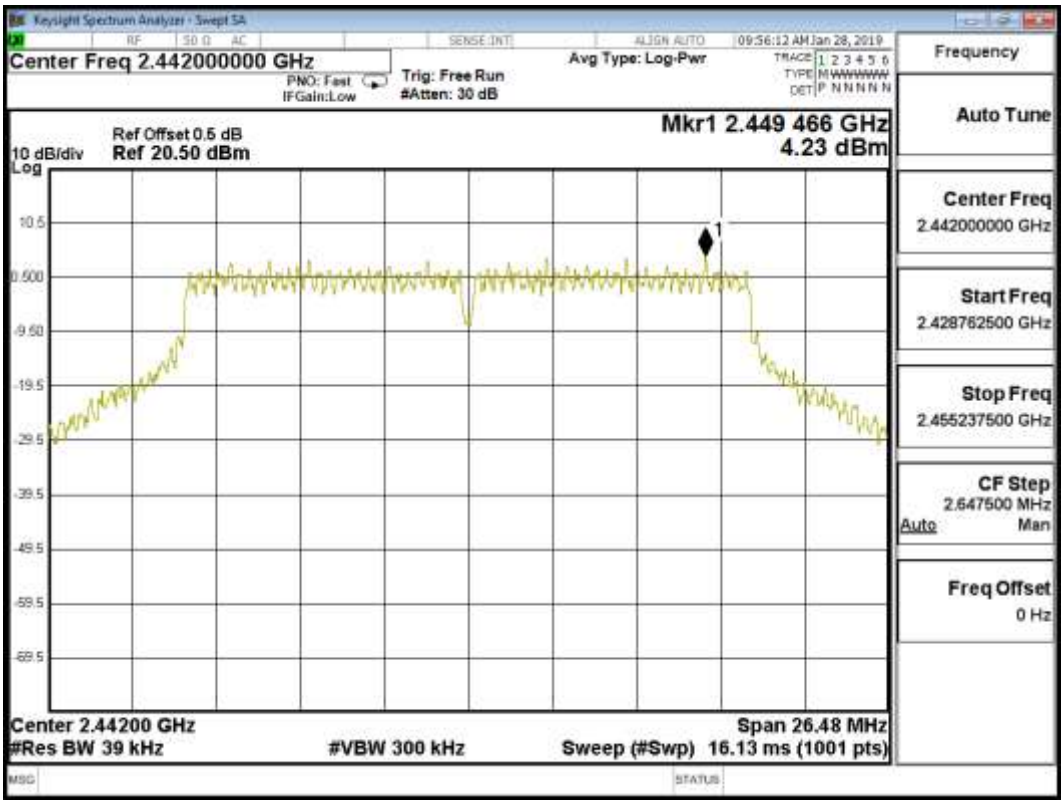


Figure Channel 07: (Chain B)

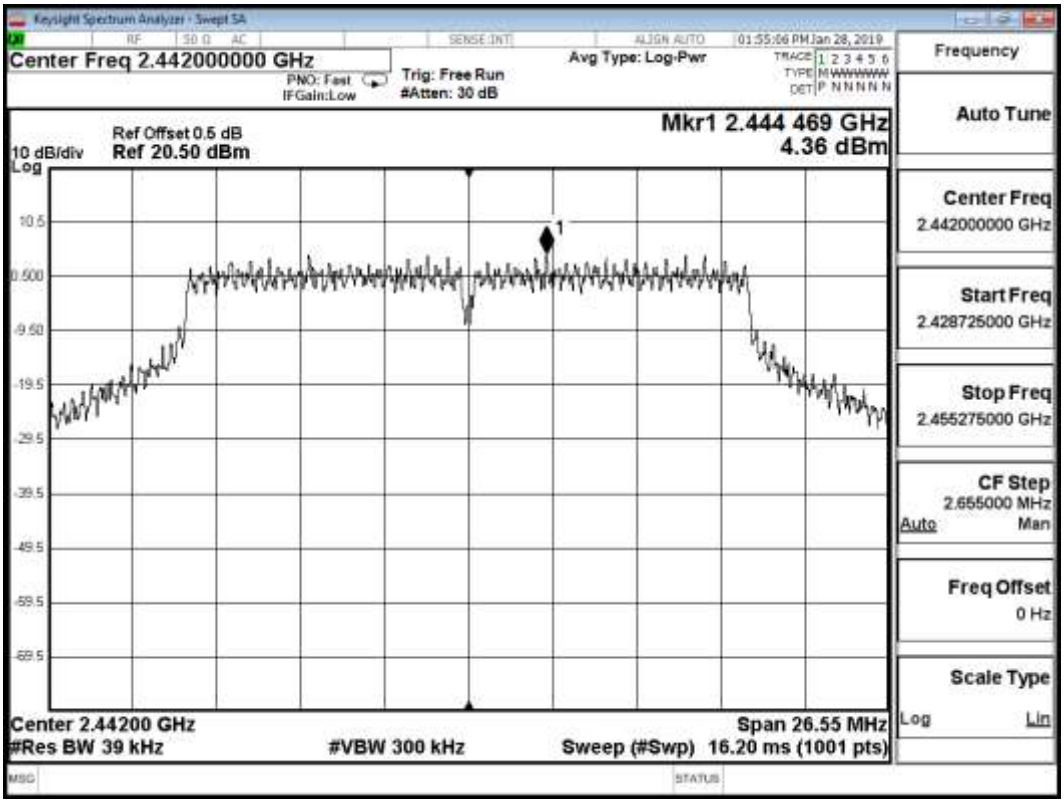


Figure Channel 11: (Chain A)

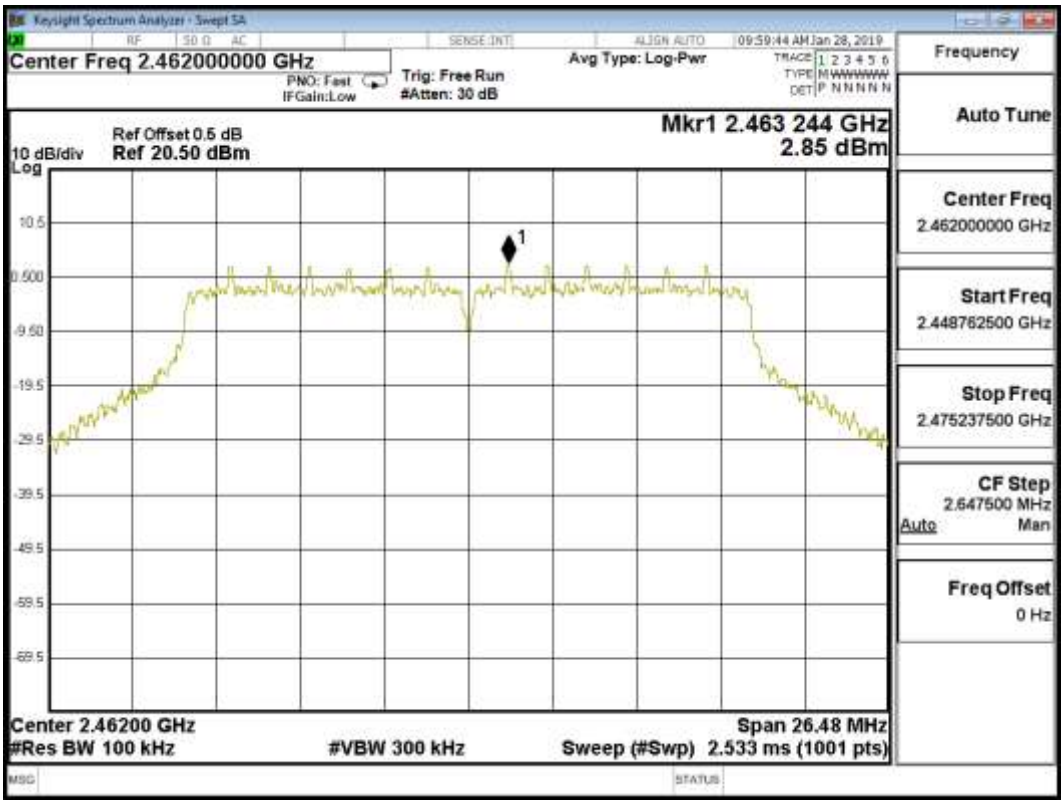


Figure Channel 11: (Chain B)

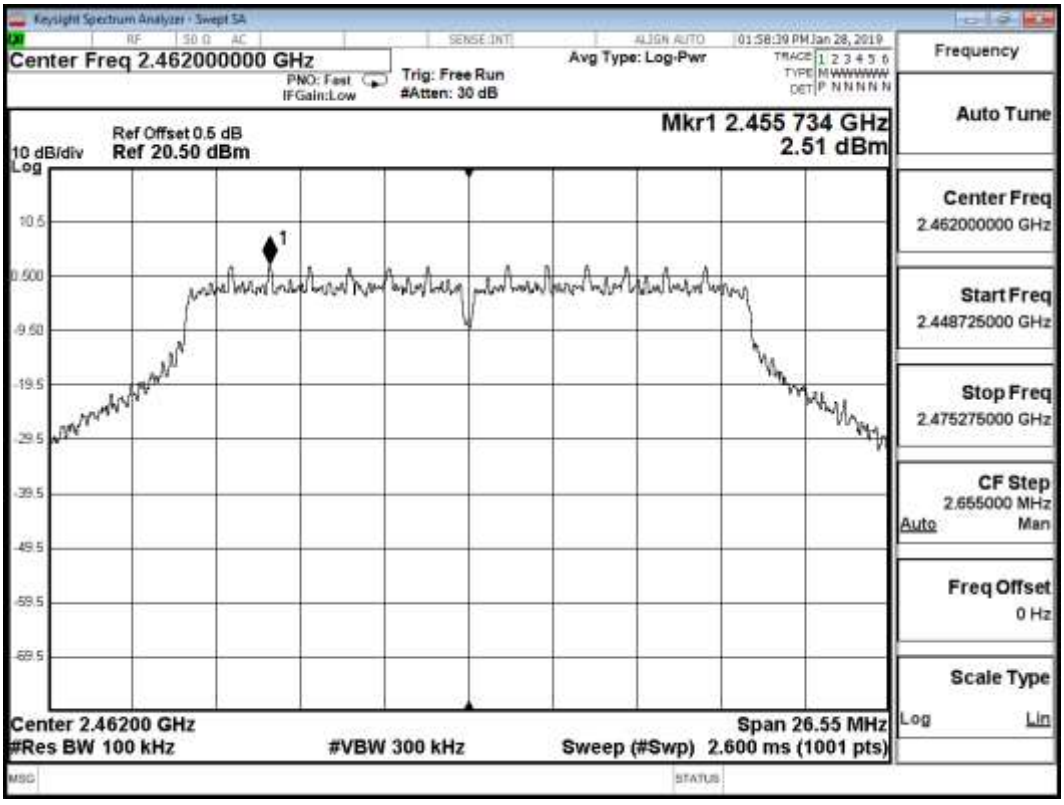


Figure Channel 12: (Chain A)

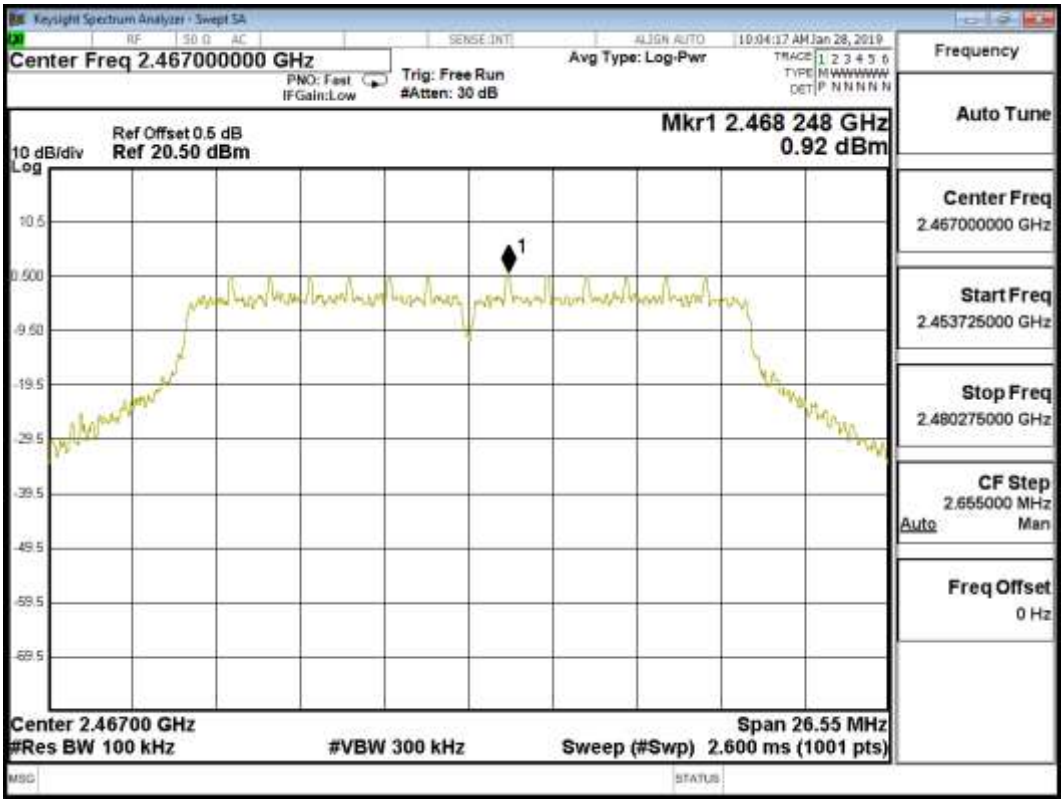


Figure Channel 12: (Chain B)

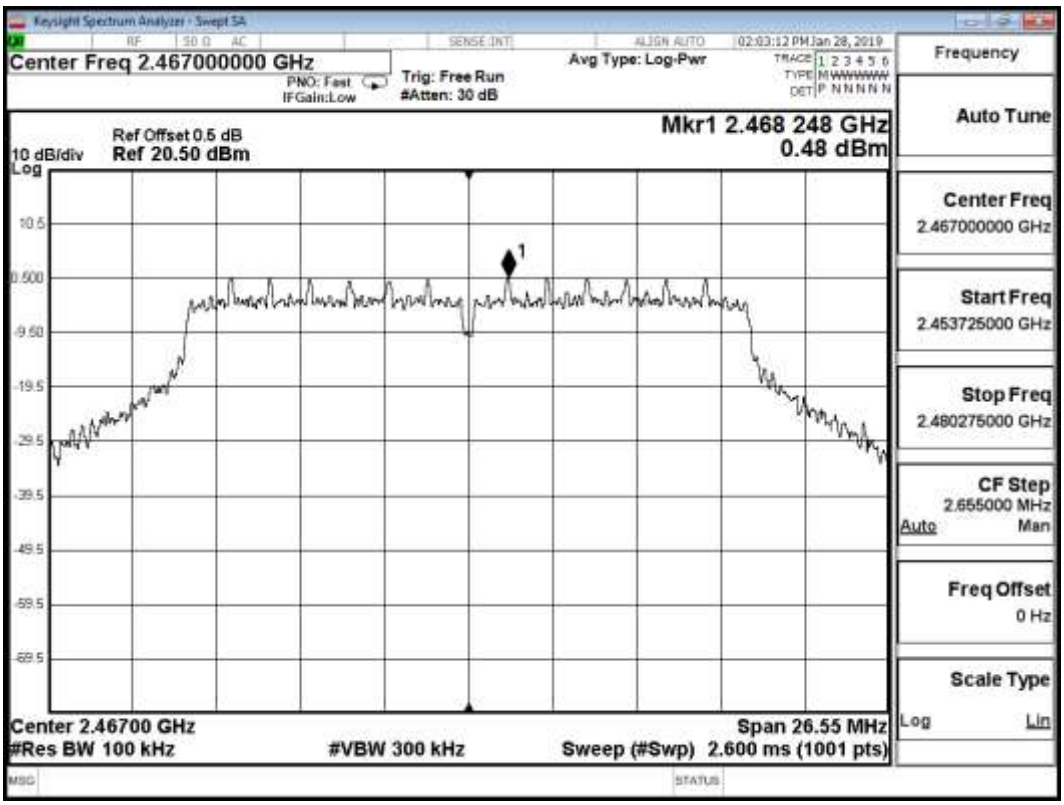


Figure Channel 13: (Chain A)

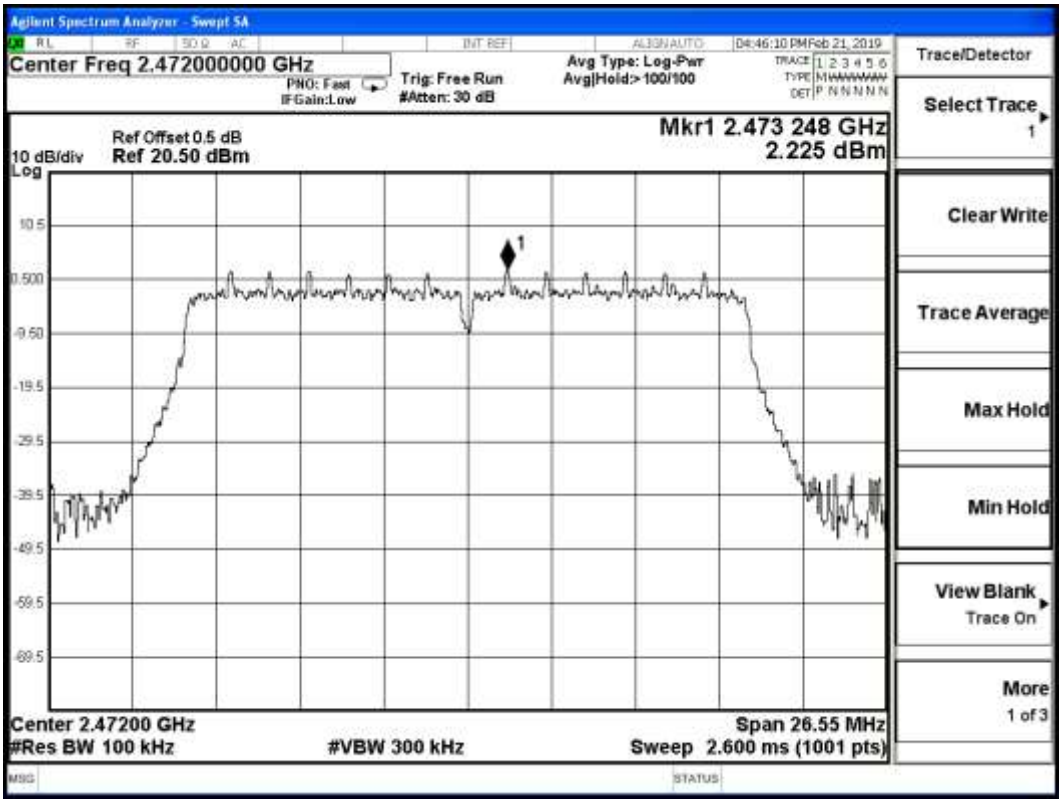
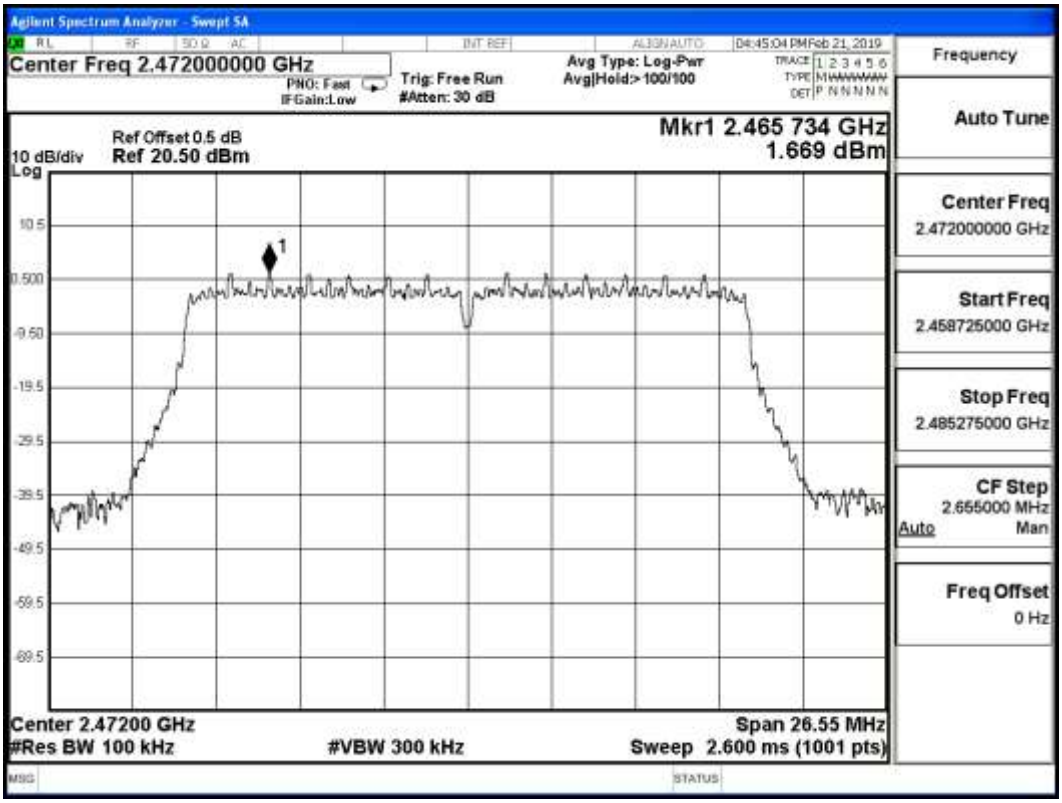


Figure Channel 13: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 3: MIMO: 發射器 802.11n (40MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：108 年 01 月 28 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Chain	PPSD/MHz (dBm)	10*log(2) (dB)	Measure Level (dBm)	Limit (dBm)	Result
03	2422.000	A	1.700	3.010	4.710	≦8dBm	Pass
		B	1.330	3.010	4.340	≦8dBm	Pass
07	2442.000	A	1.500	3.010	4.510	≦8dBm	Pass
		B	1.400	3.010	4.410	≦8dBm	Pass
09	2452.000	A	-0.530	3.010	2.480	≦8dBm	Pass
		B	-0.760	3.010	2.250	≦8dBm	Pass
10	2457.00	A	-2.950	3.010	0.060	≦8dBm	Pass
		B	-3.230	3.010	-0.220	≦8dBm	Pass
11	2462.00	A	-0.918	3.010	2.092	≦8dBm	Pass
		B	-0.959	3.010	2.051	≦8dBm	Pass

Note:
The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 03: (Chain A)

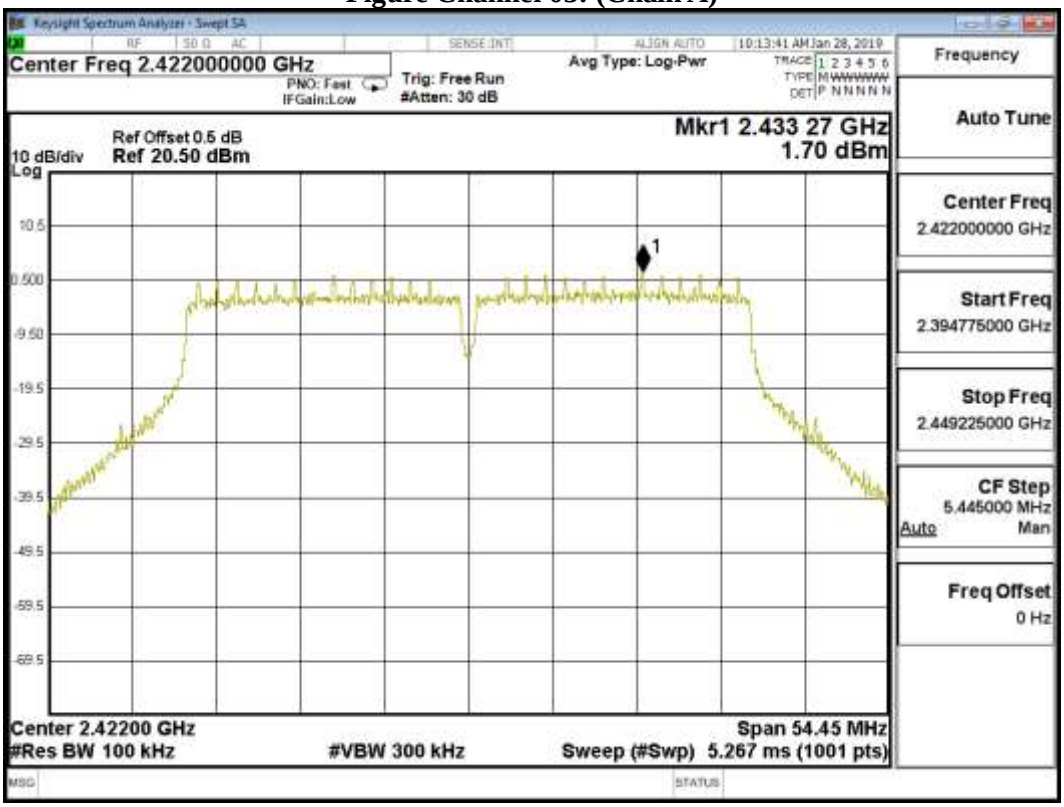


Figure Channel 03: (Chain B)

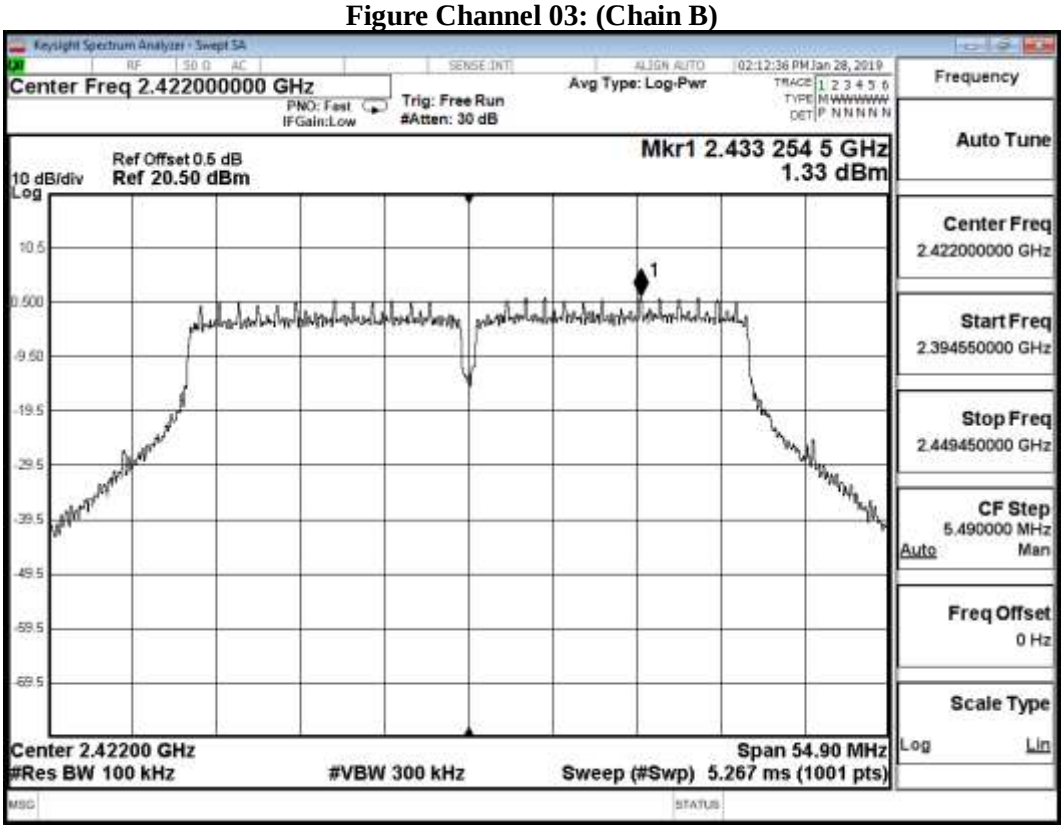


Figure Channel 07: (Chain A)

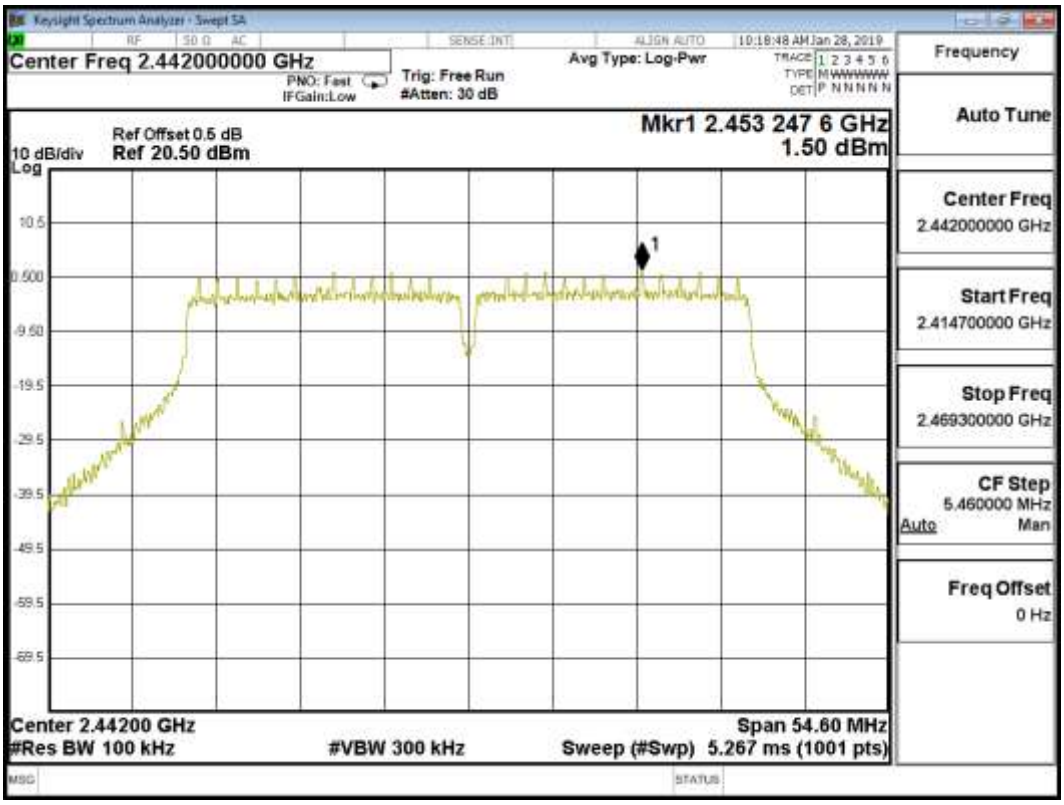


Figure Channel 07: (Chain B)

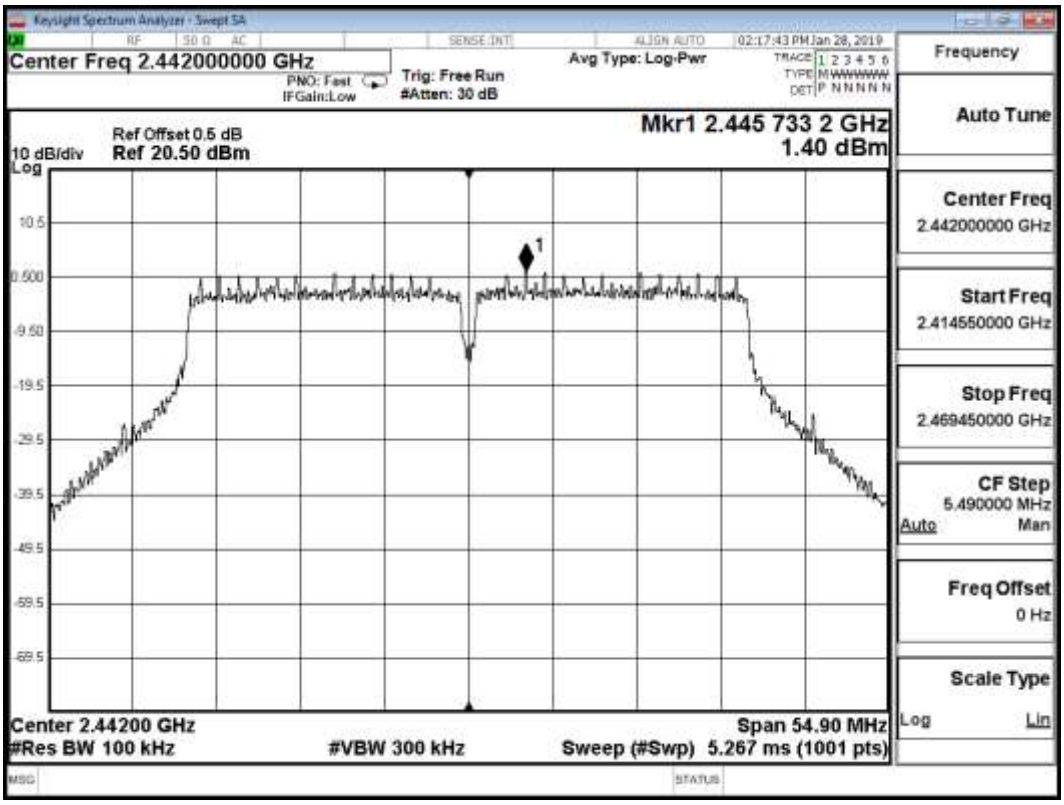


Figure Channel 09: (Chain A)

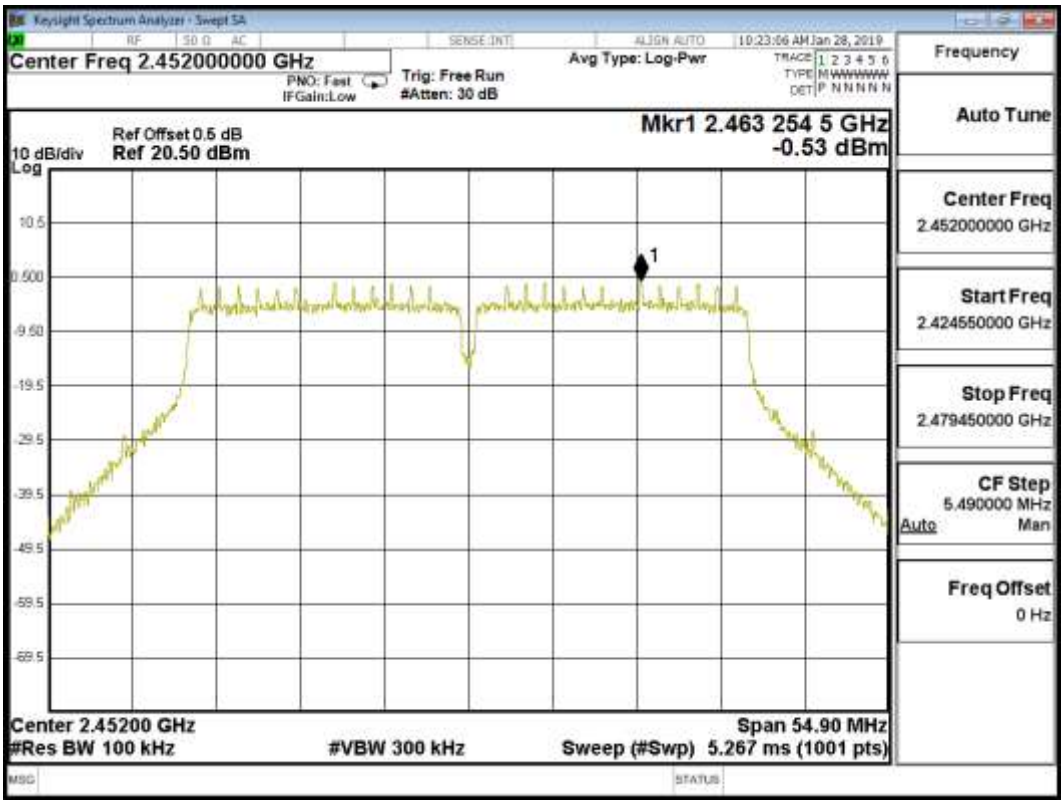


Figure Channel 09: (Chain B)

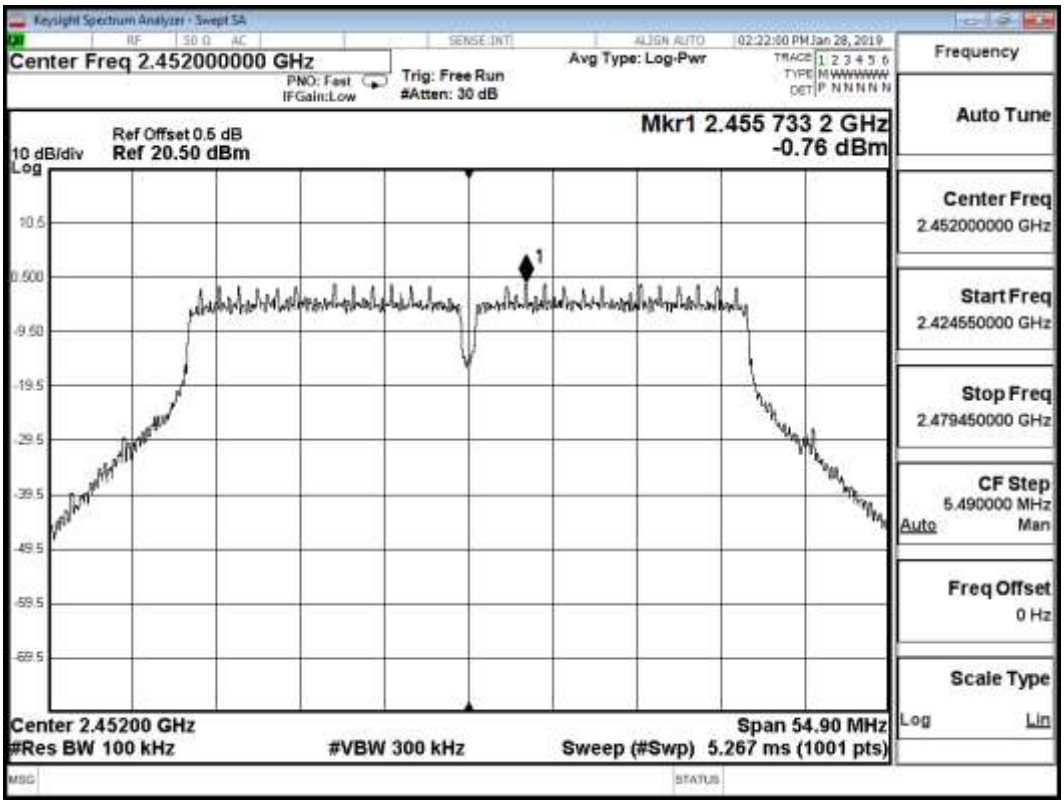


Figure Channel 10: (Chain A)

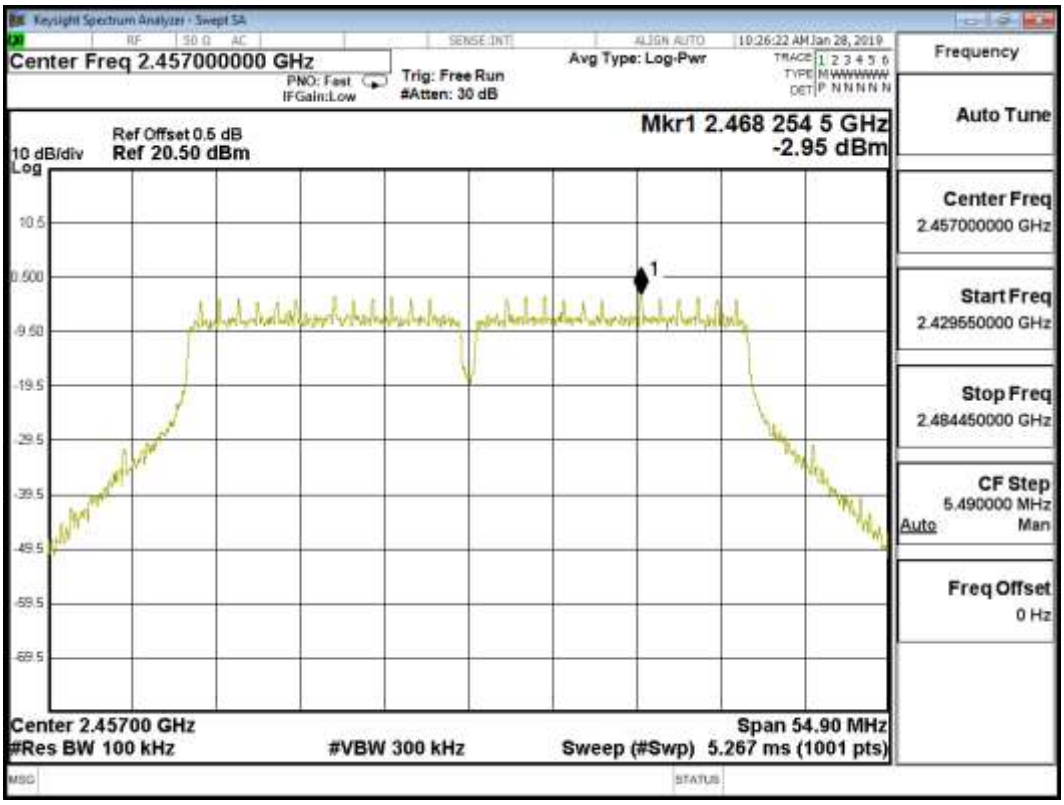


Figure Channel 10: (Chain B)

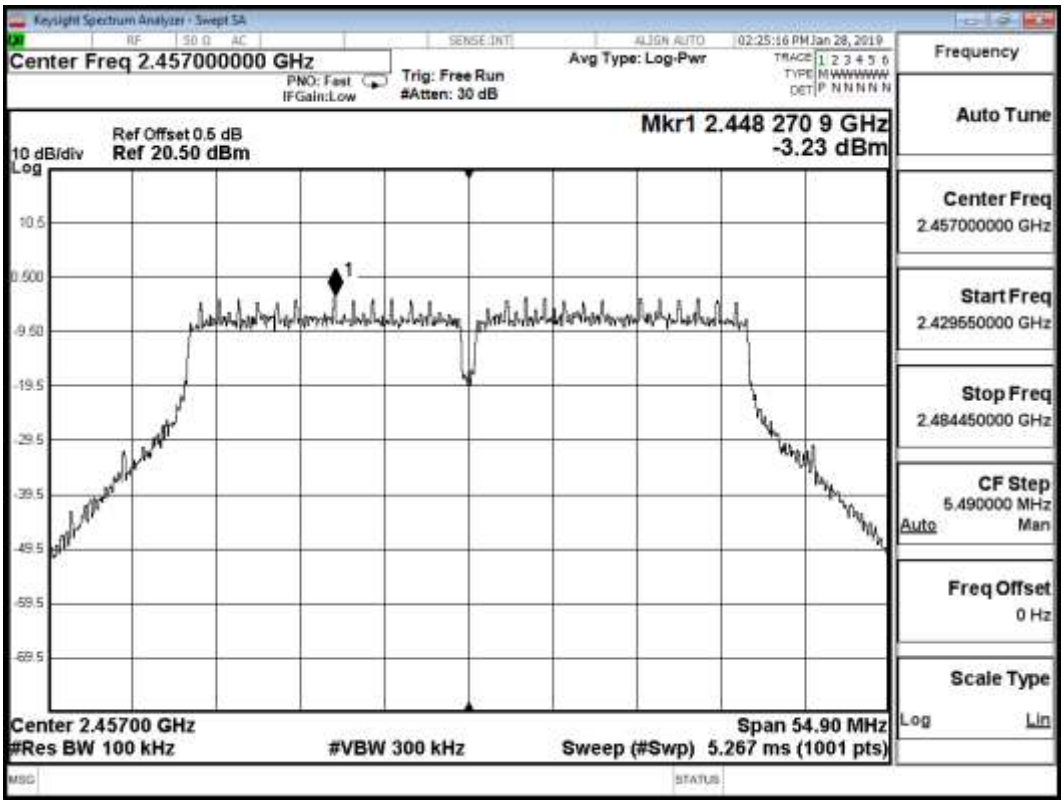


Figure Channel 11: (Chain A)

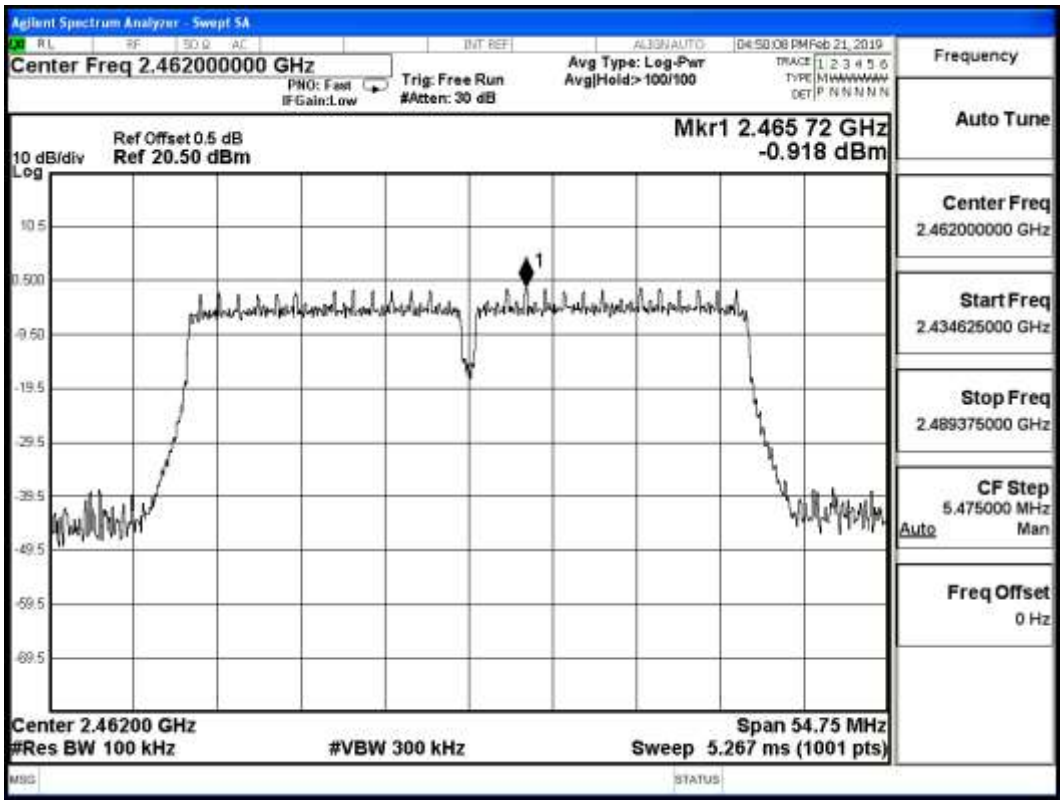
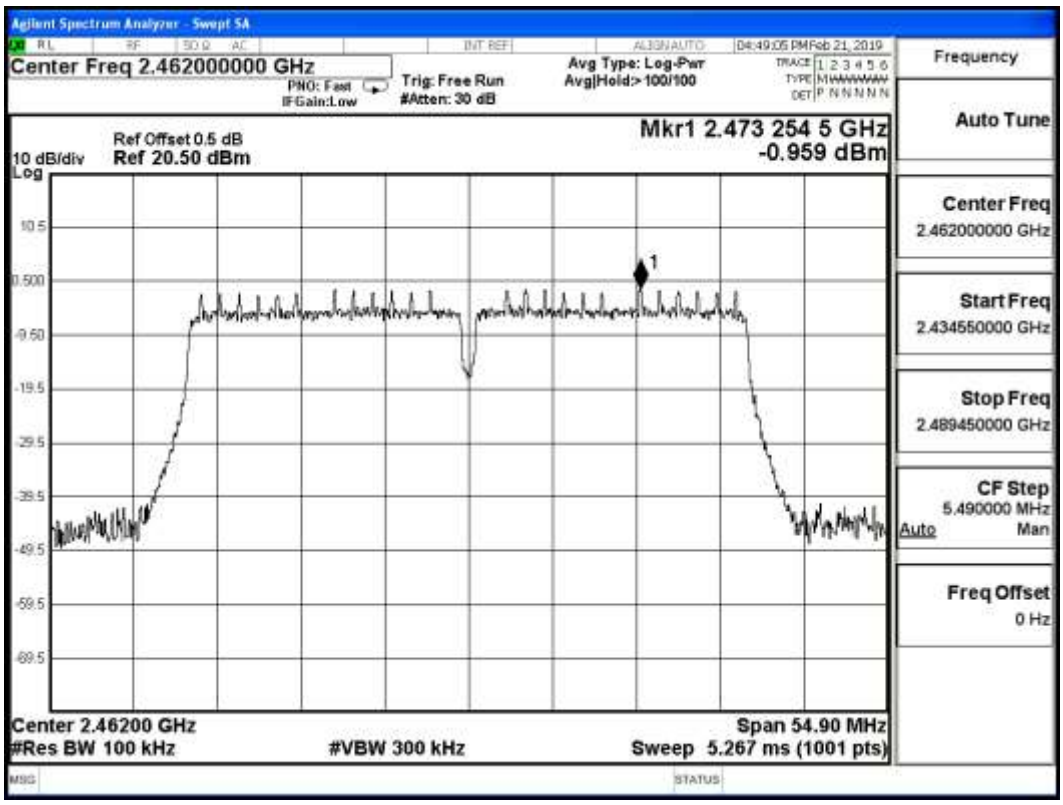


Figure Channel 11: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW　　測 試 項 目 ：功率密度
測 試 頻 道 ：- -　　測 試 模 式 ：Mode 1: SISO A: 發射器 802.11ax (20MHz)
量 測 天 線 ：- -　　測 試 距 離 ：Conducted
檢 測 器 ：峰值　　環 境 溫 度 ：20 ℃
測 試 日 期 ：108 年 01 月 25 日　　環 境 濕 度 ：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.47	≦8dBm	Pass
07	2442	7.68	≦8dBm	Pass
11	2462	3.48	≦8dBm	Pass
12	2467	2.15	≦8dBm	Pass
13	2472	2.32	≦8dBm	Pass

Figure Channel 01:

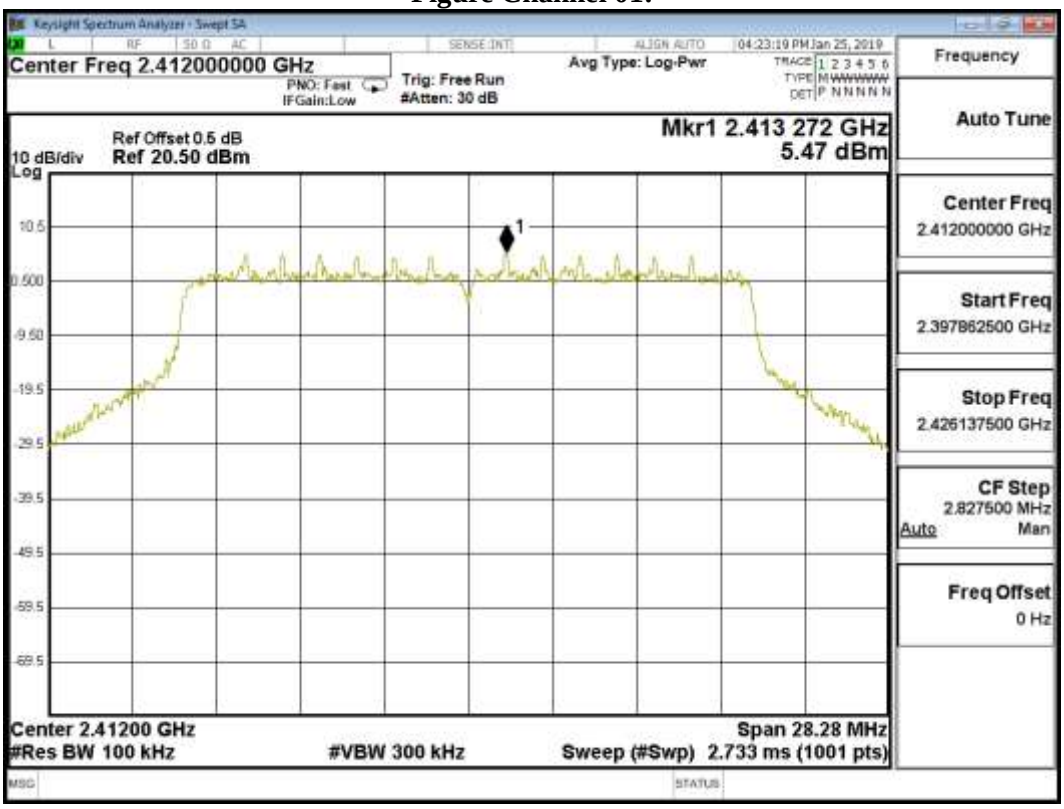


Figure Channel 07:

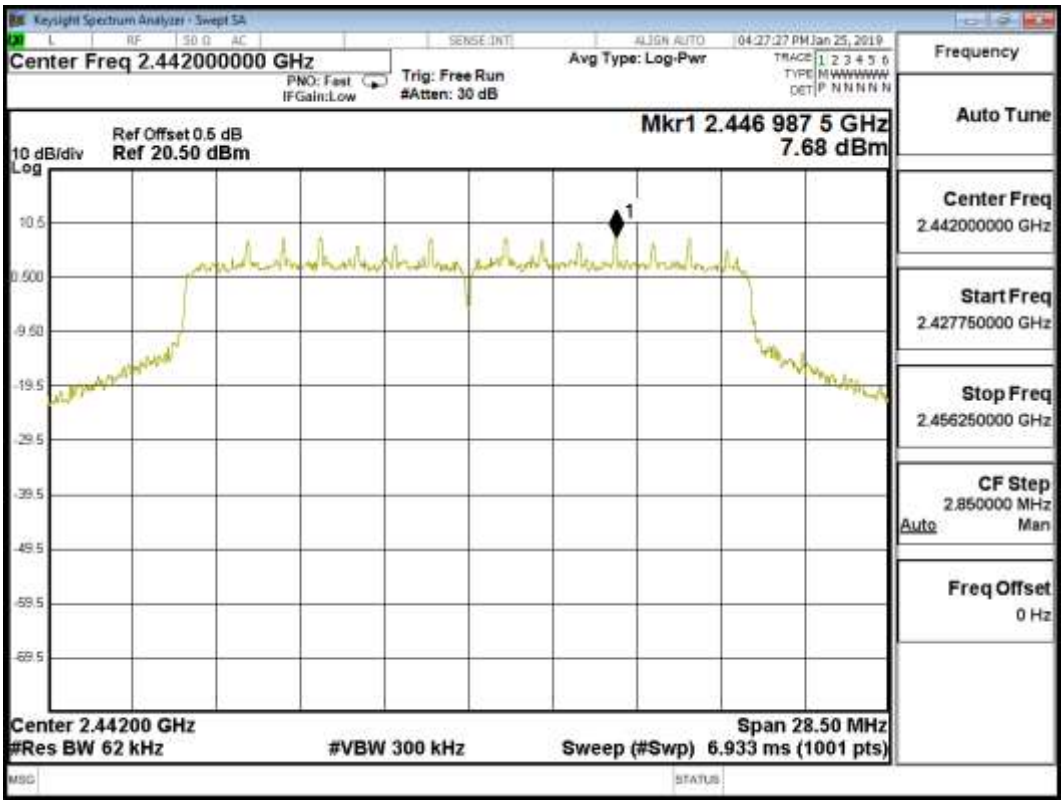


Figure Channel 11:

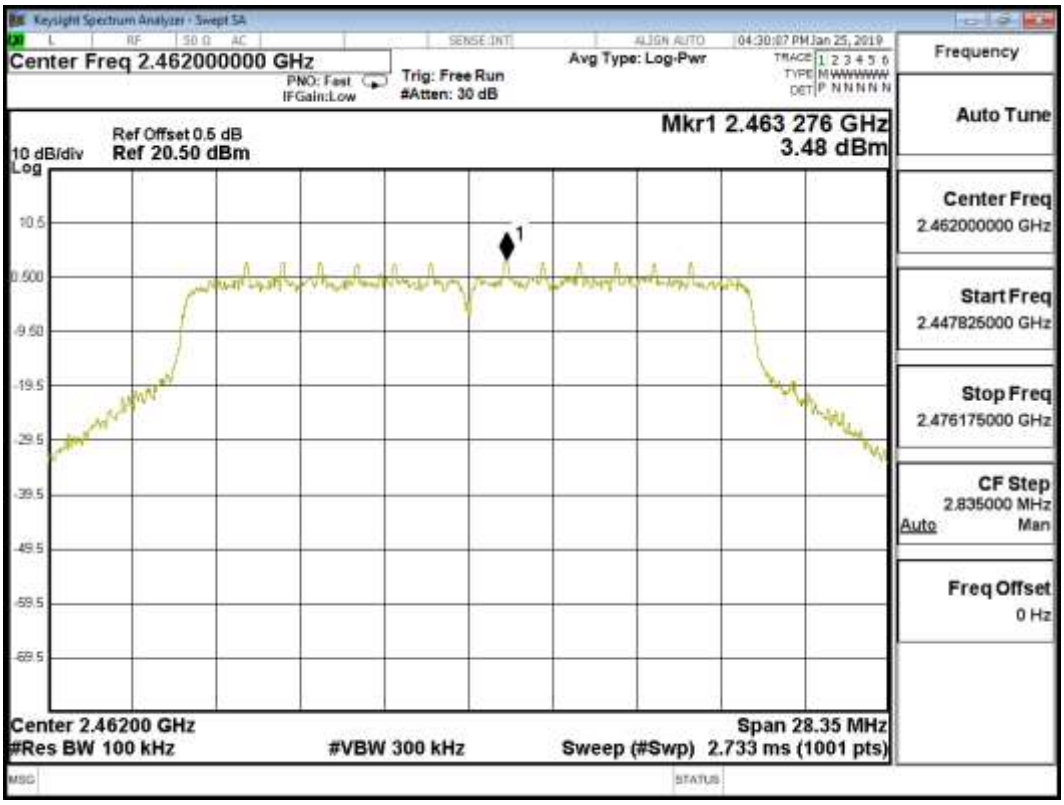


Figure Channel 12:

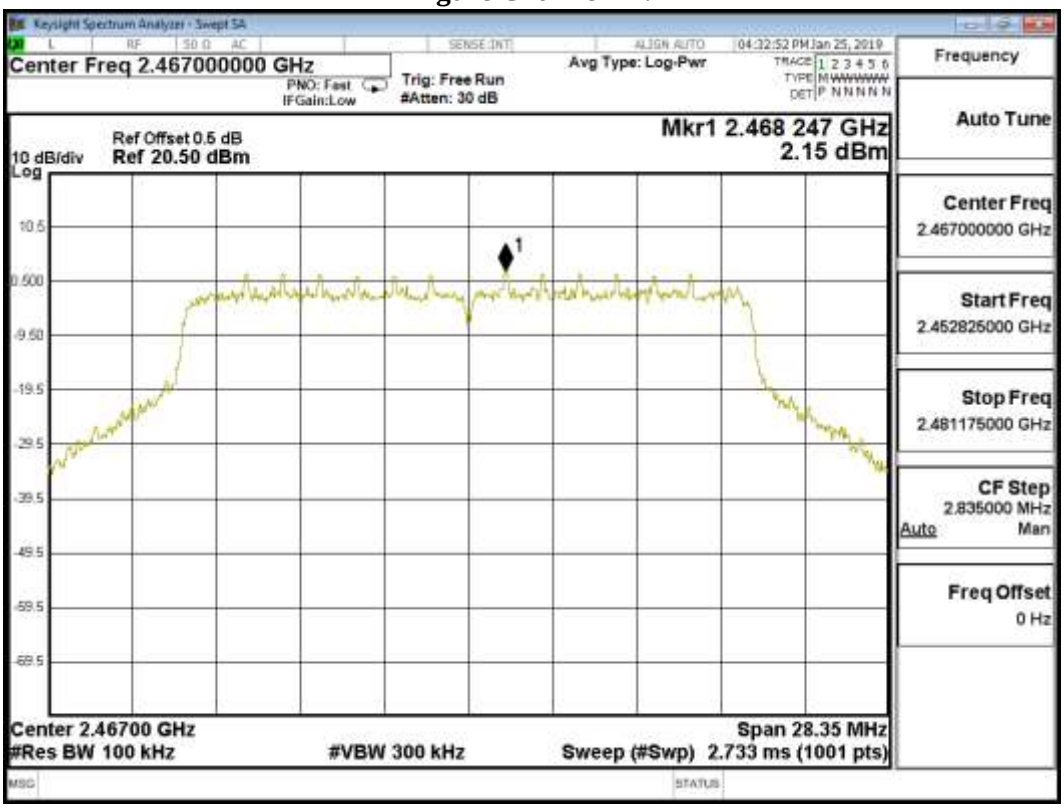
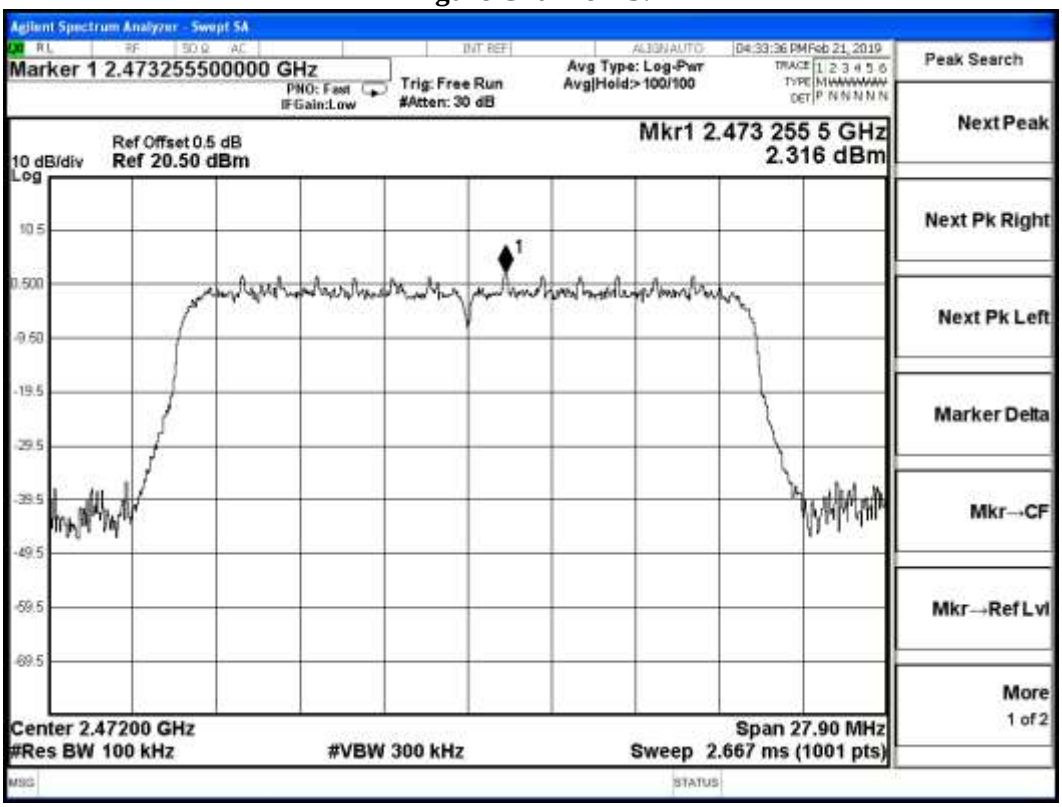


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW
測試頻道：--
量測天線：--
檢測器：峰值
測試日期：108 年 01 月 25 日
測試項目：功率密度
測試模式：Mode 1: SISO A: 發射器 802.11ax (40MHz)
測試距離：Conducted
環境溫度：20 ℃
環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.74	≦8dBm	Pass
07	2442	2.39	≦8dBm	Pass
09	2452	0.13	≦8dBm	Pass
10	2457	-2.03	≦8dBm	Pass
11	2462	0.14	≦8dBm	Pass

Figure Channel 03:

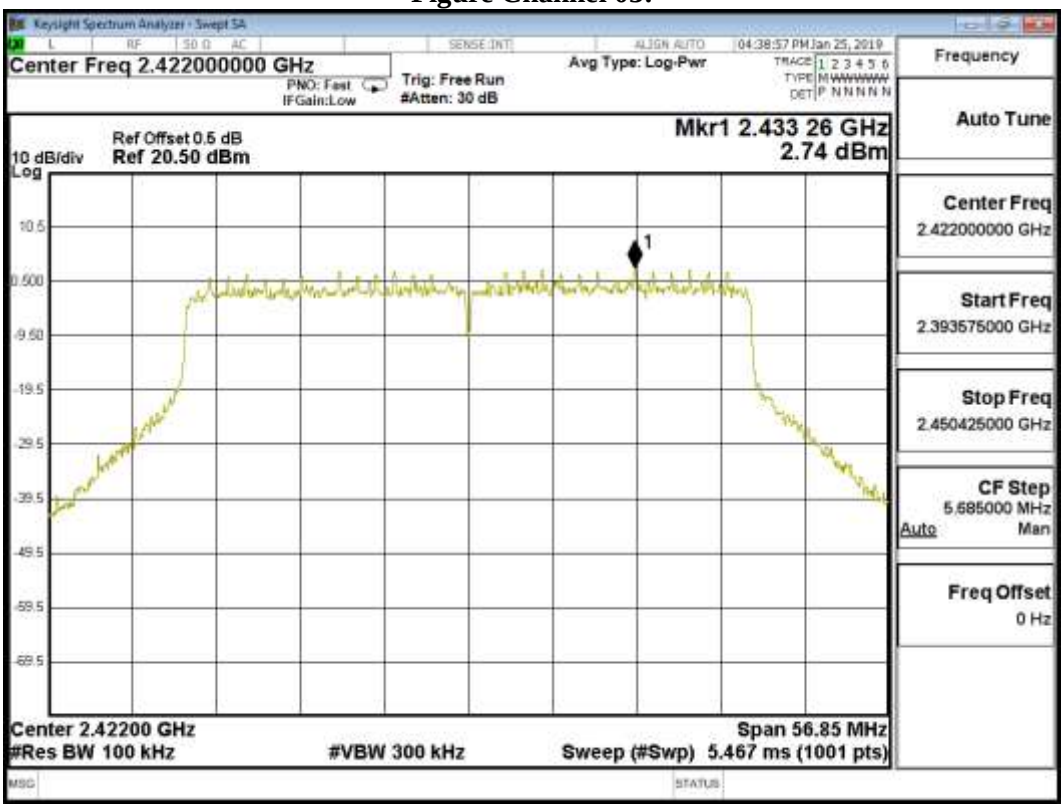


Figure Channel 07:

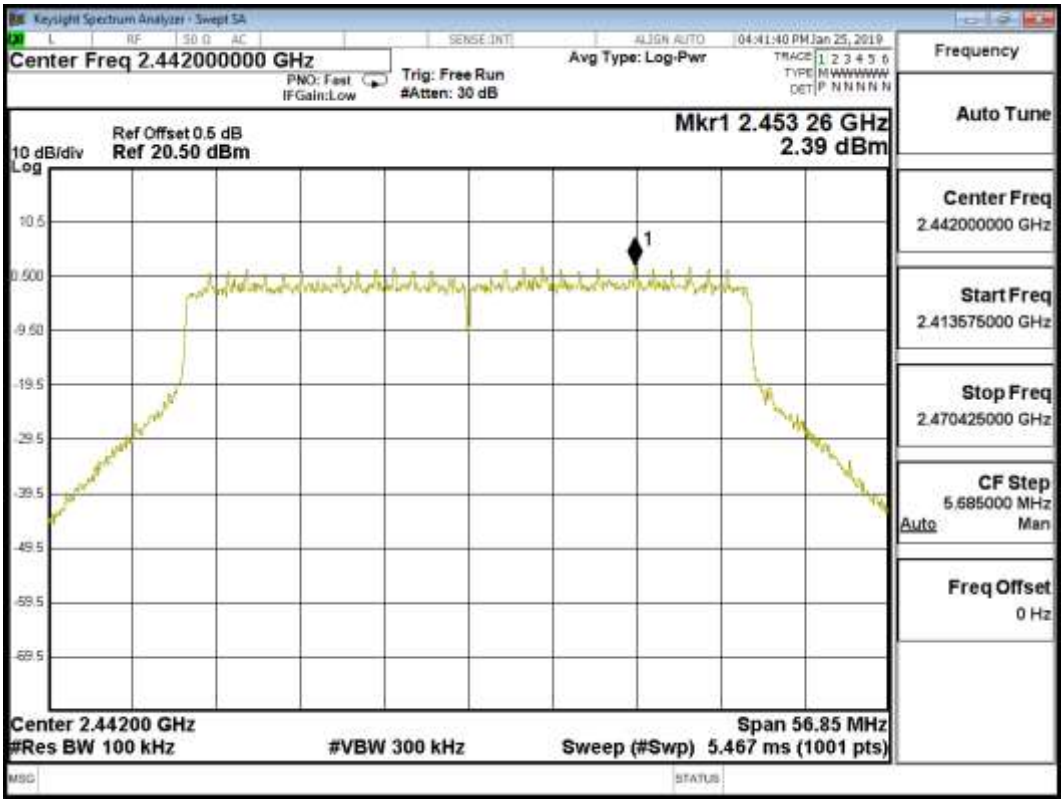


Figure Channel 09:

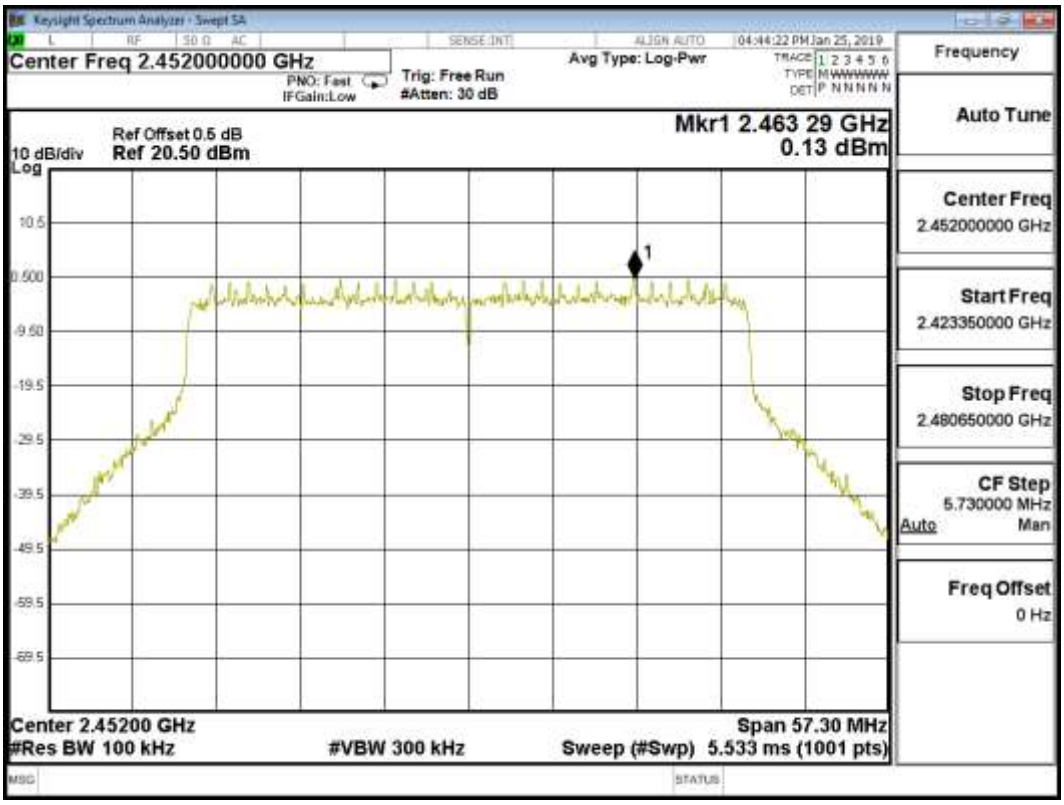


Figure Channel 10:

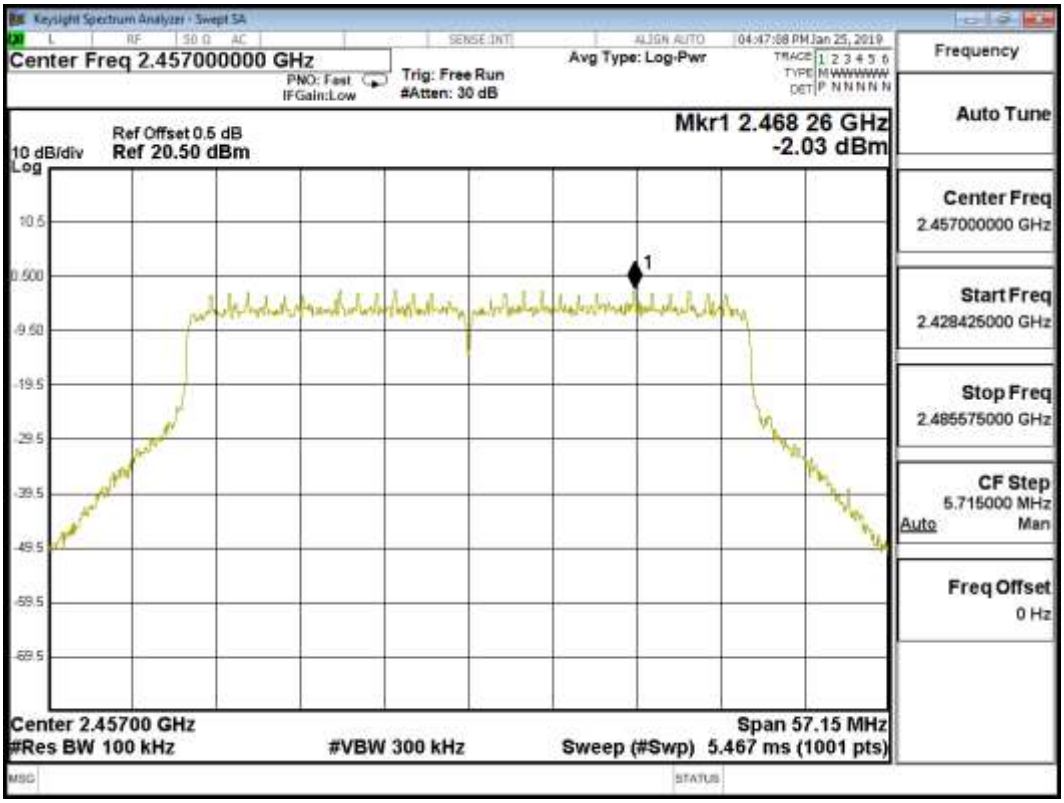
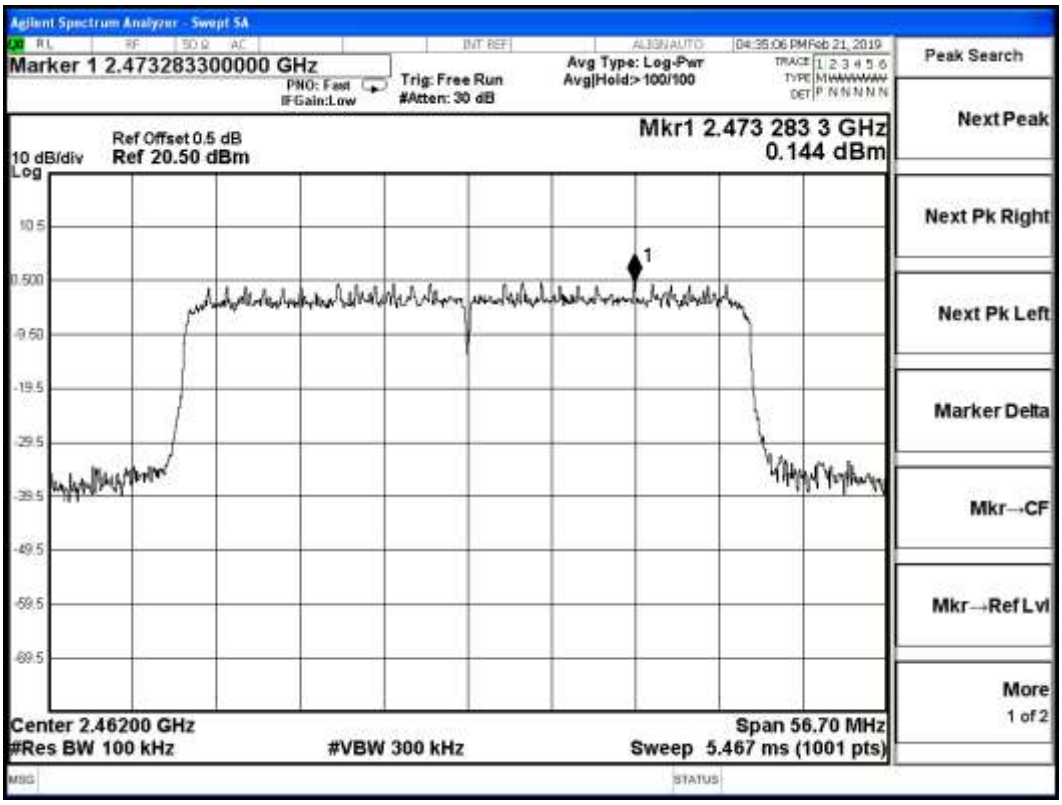


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW
測試頻道：--
量測天線：--
檢測器：峰值
測試日期：108 年 01 月 25 日
測試項目：功率密度
測試模式：Mode 2: SISO B: 發射器 802.11ax (20MHz)
測試距離：Conducted
環境溫度：20 ℃
環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.38	≦8dBm	Pass
07	2442	7.56	≦8dBm	Pass
11	2462	4.18	≦8dBm	Pass
12	2467	2.31	≦8dBm	Pass
13	2472	0.93	≦8dBm	Pass

Figure Channel 01:

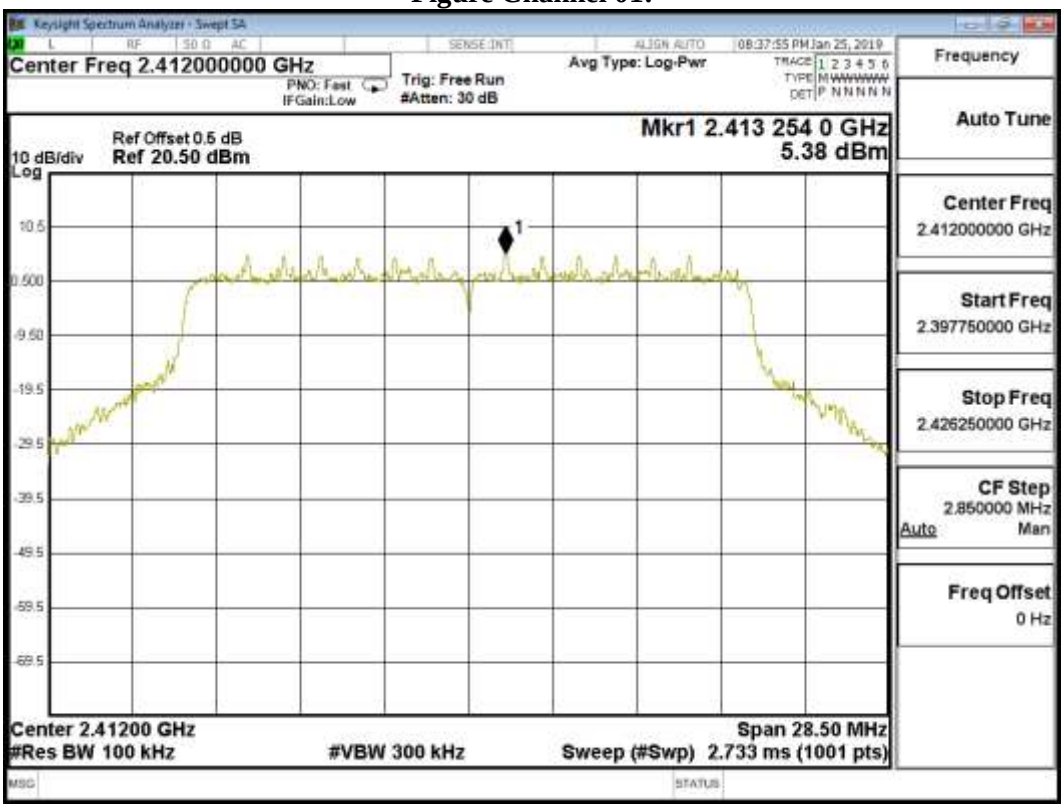


Figure Channel 07:

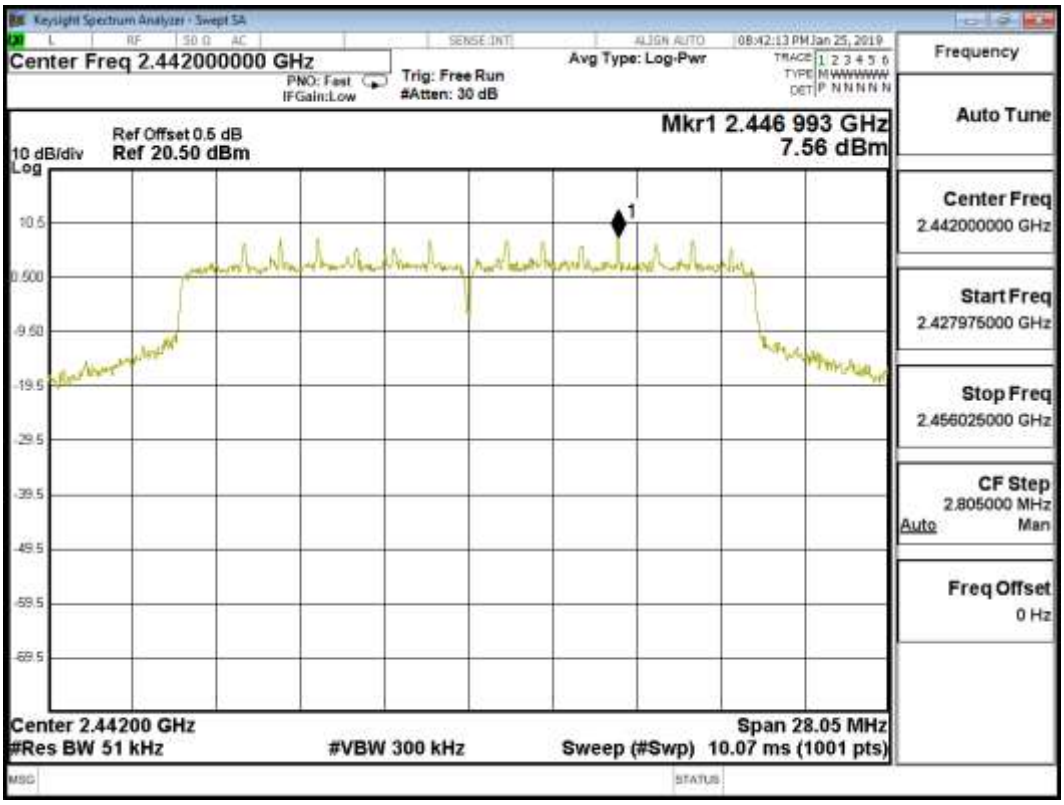


Figure Channel 11:

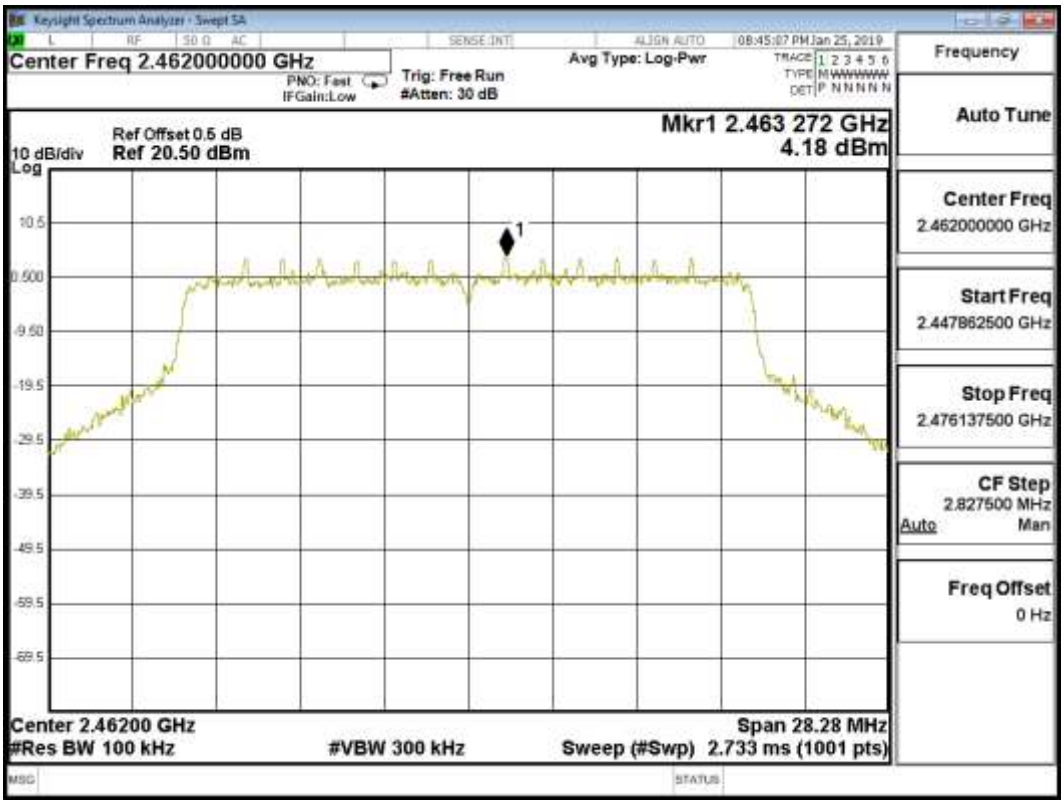


Figure Channel 12:

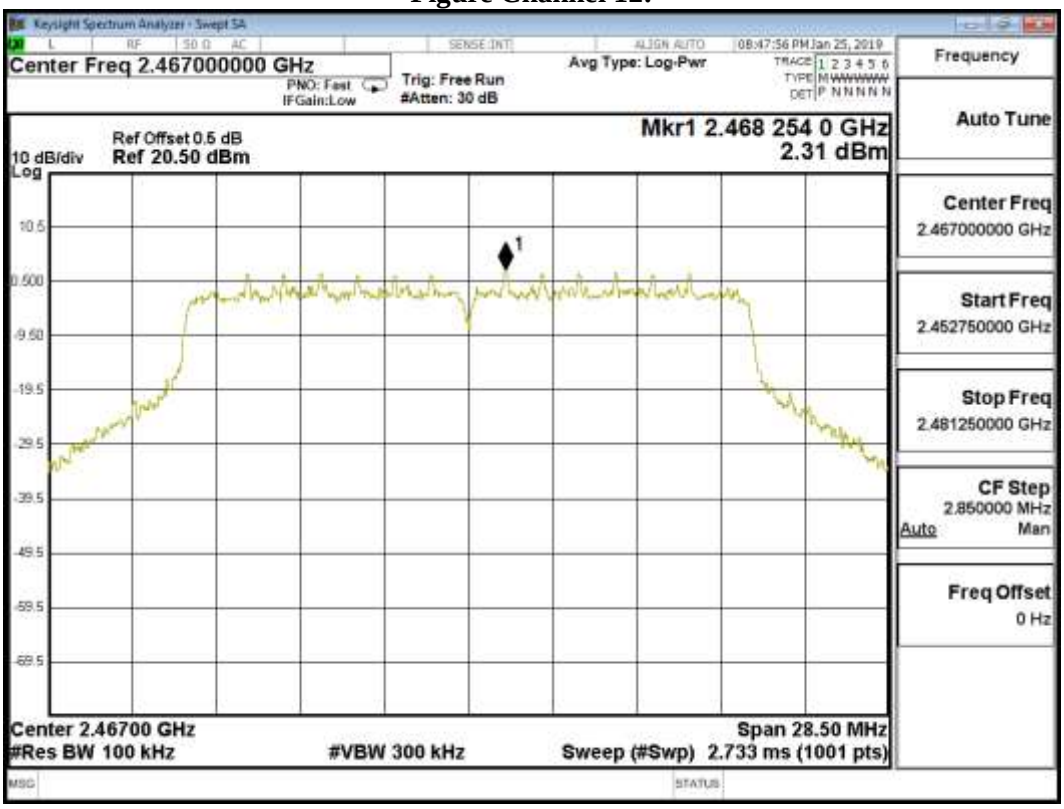
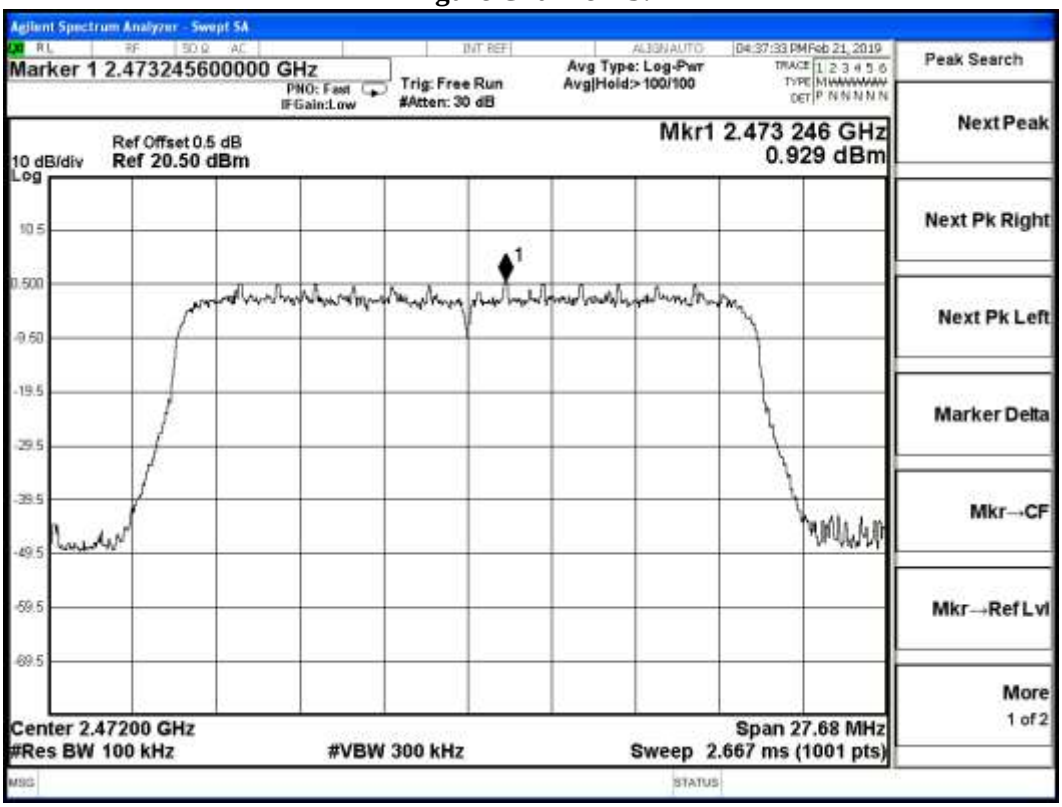


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW
測試頻道：- -
量測天線：- -
檢測器：峰值
測試日期：108 年 01 月 25 日
測試項目：功率密度
測試模式：Mode 2: SISO B: 發射器 802.11ax (40MHz)
測試距離：Conducted
環境溫度：20 ℃
環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.98	≦8dBm	Pass
07	2442	3	≦8dBm	Pass
09	2452	1.07	≦8dBm	Pass
10	2457	-1.64	≦8dBm	Pass
11	2462	-2.10	≦8dBm	Pass

Figure Channel 03:

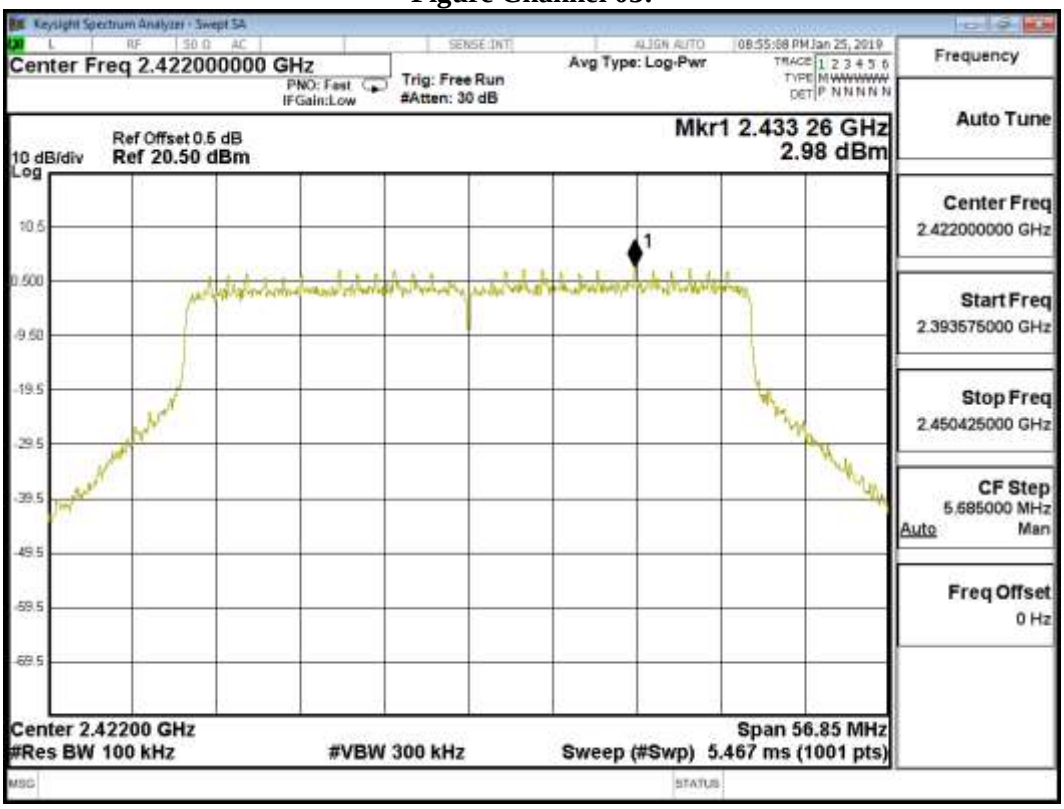


Figure Channel 07:

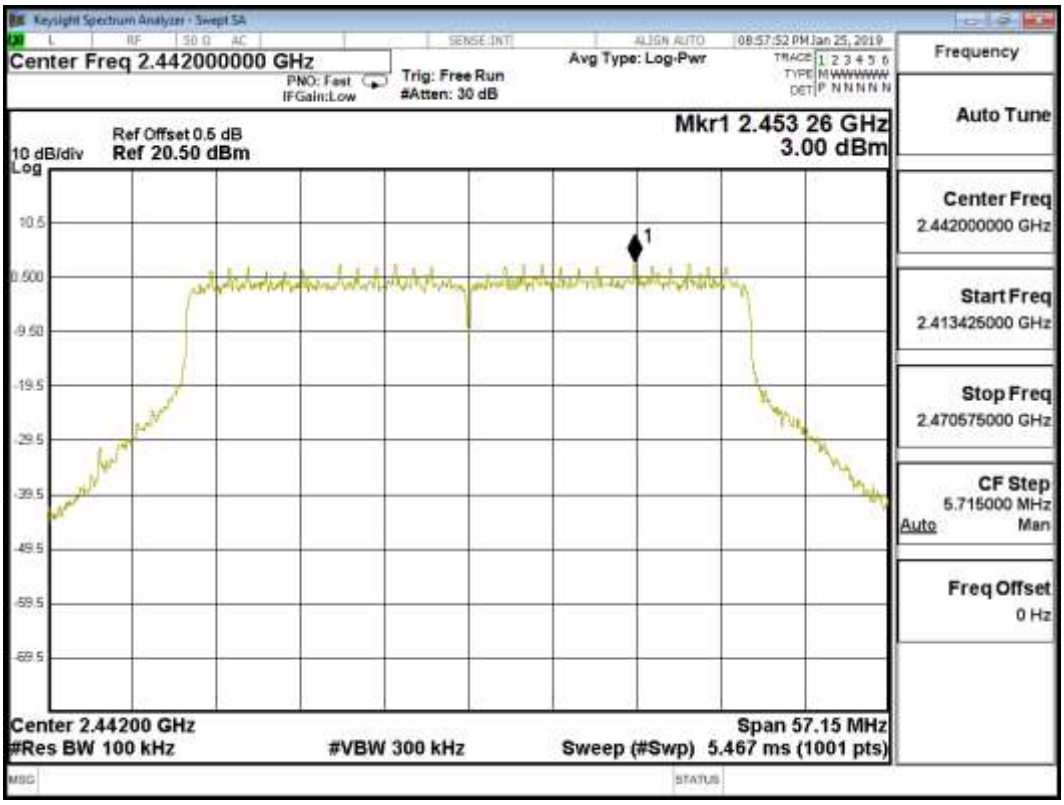


Figure Channel 09:

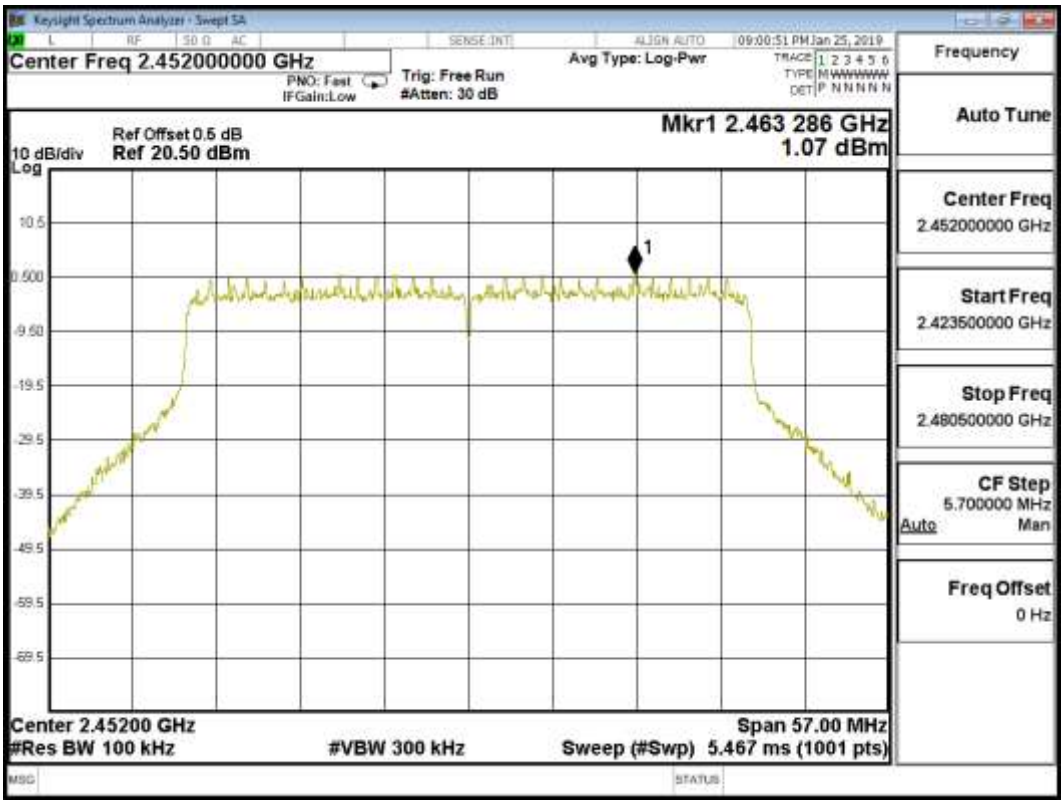


Figure Channel 10:

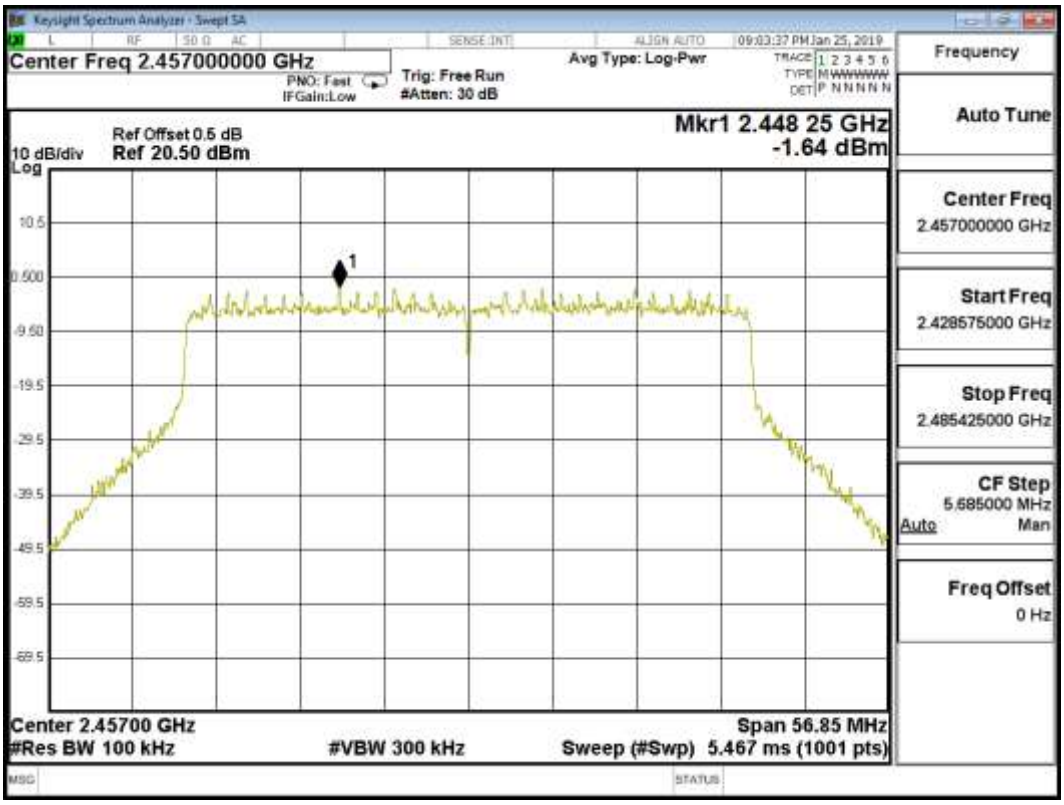
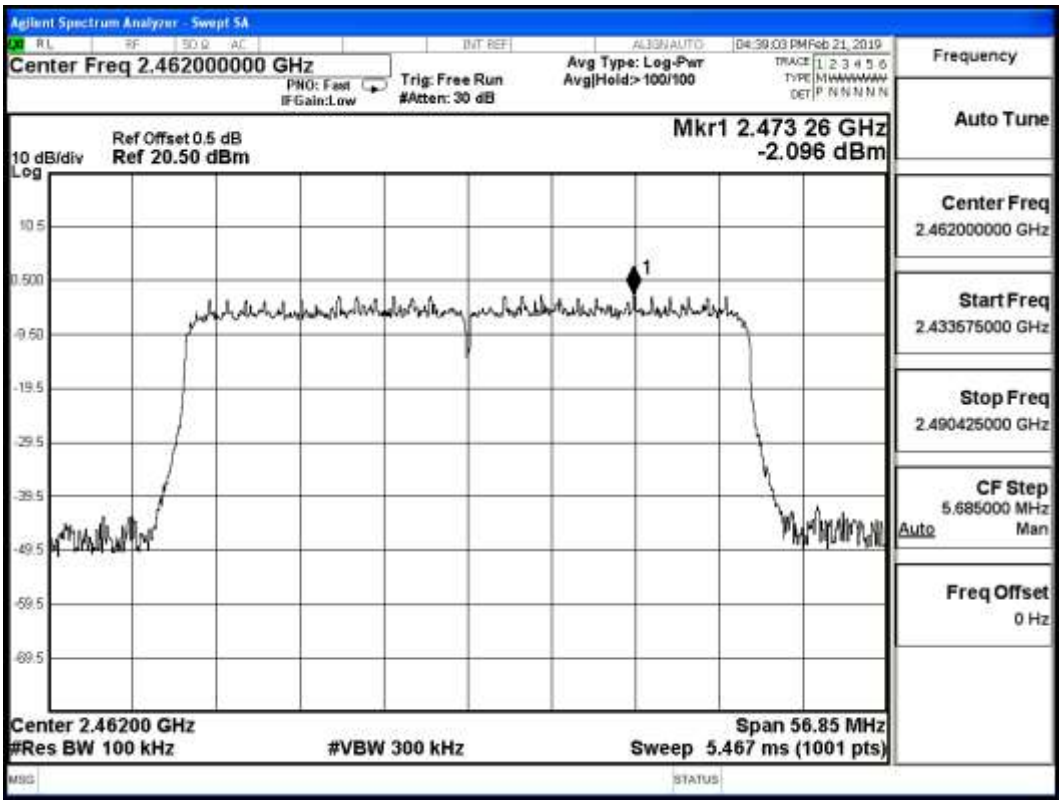


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 3: MIMO: 發射器 802.11ax (20MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：108 年 01 月 28 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Chain	PPSD/MHz (dBm)	10*log(2) (dB)	Measure Level (dBm)	Limit (dBm)	Result
01	2412.000	A	1.510	3.010	4.520	≦8dBm	Pass
		B	0.870	3.010	3.880	≦8dBm	Pass
07	2442.000	A	4.770	3.010	7.780	≦8dBm	Pass
		B	4.070	3.010	7.080	≦8dBm	Pass
11	2462.000	A	0.120	3.010	3.130	≦8dBm	Pass
		B	-0.610	3.010	2.400	≦8dBm	Pass
12	2467.00	A	0.300	3.010	3.310	≦8dBm	Pass
		B	-0.370	3.010	2.640	≦8dBm	Pass
13	2472.00	A	0.561	3.010	3.571	≦8dBm	Pass
		B	-0.037	3.010	2.973	≦8dBm	Pass

Note:
The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 01: (Chain A)

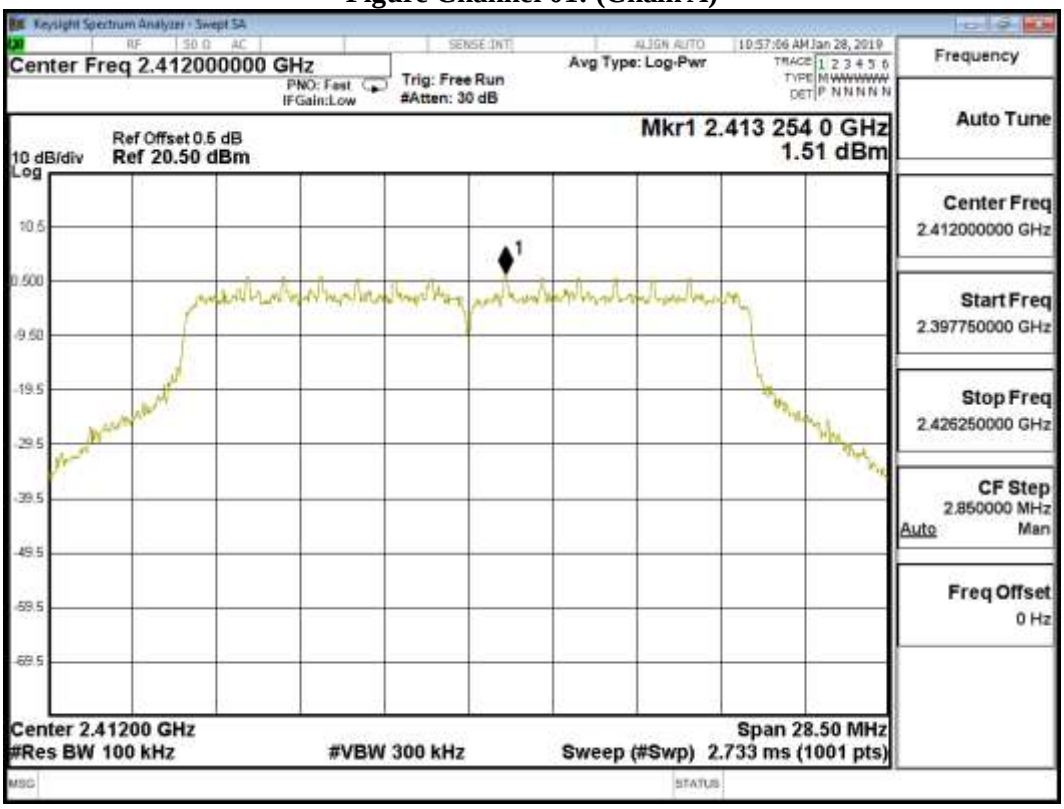


Figure Channel 01: (Chain B)

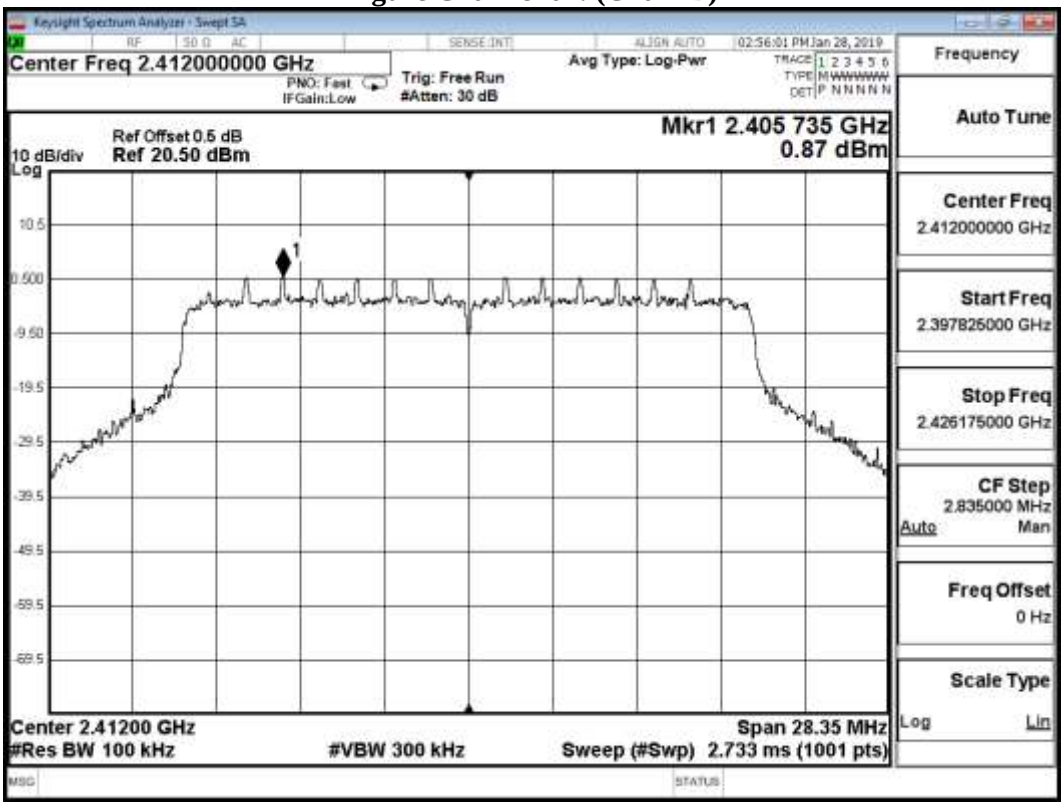


Figure Channel 07: (Chain A)

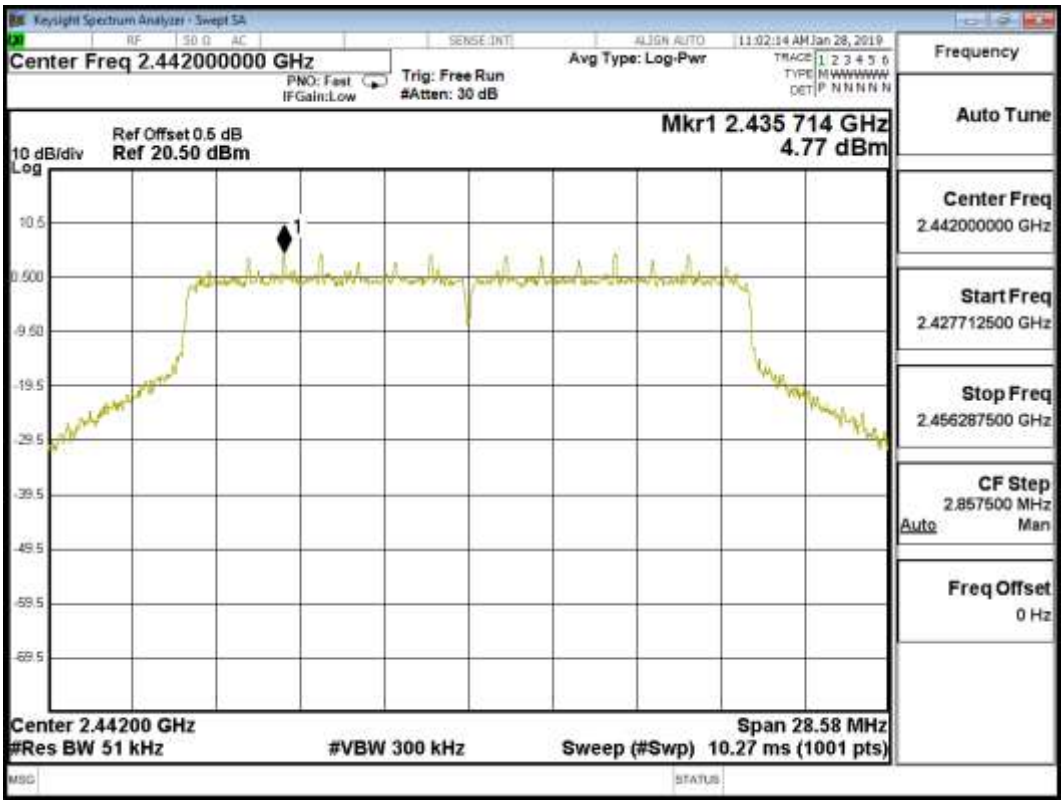


Figure Channel 07: (Chain B)

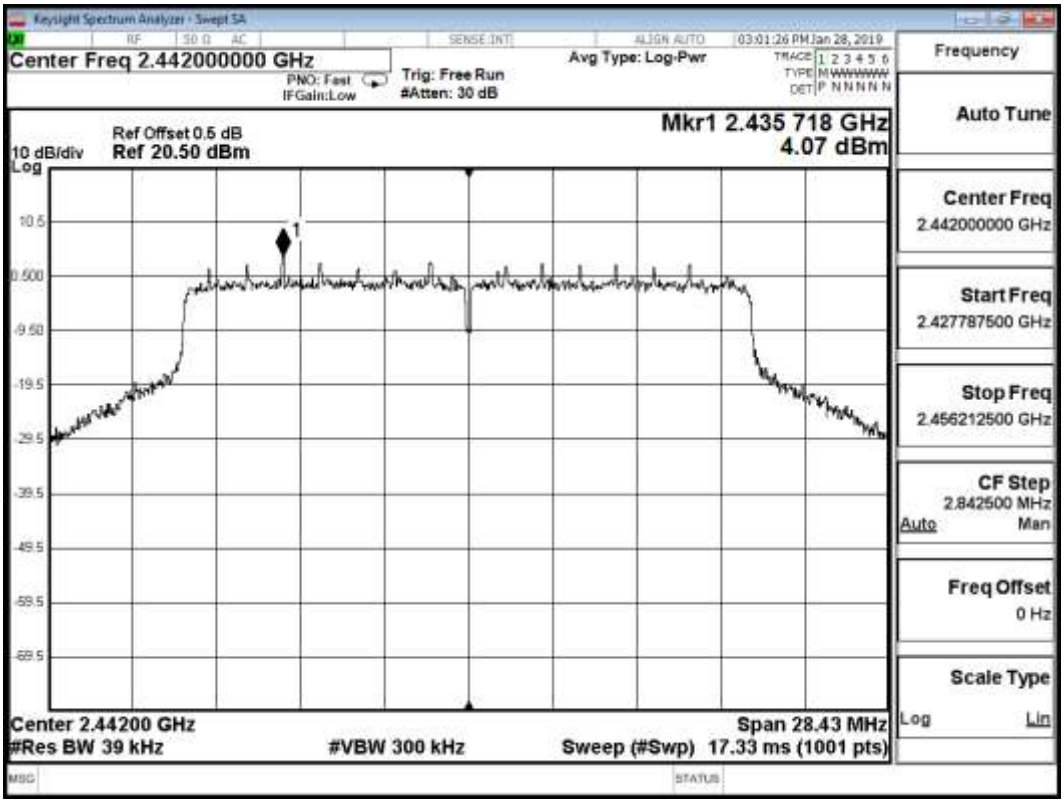


Figure Channel 11: (Chain A)

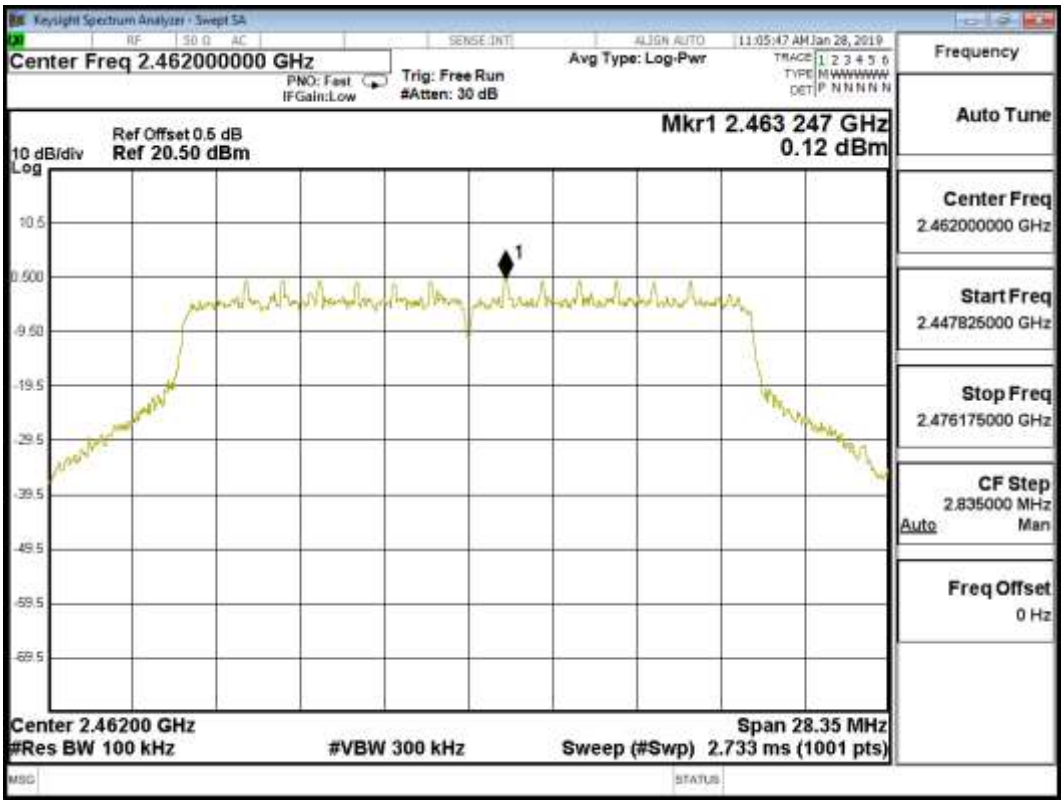


Figure Channel 11: (Chain B)

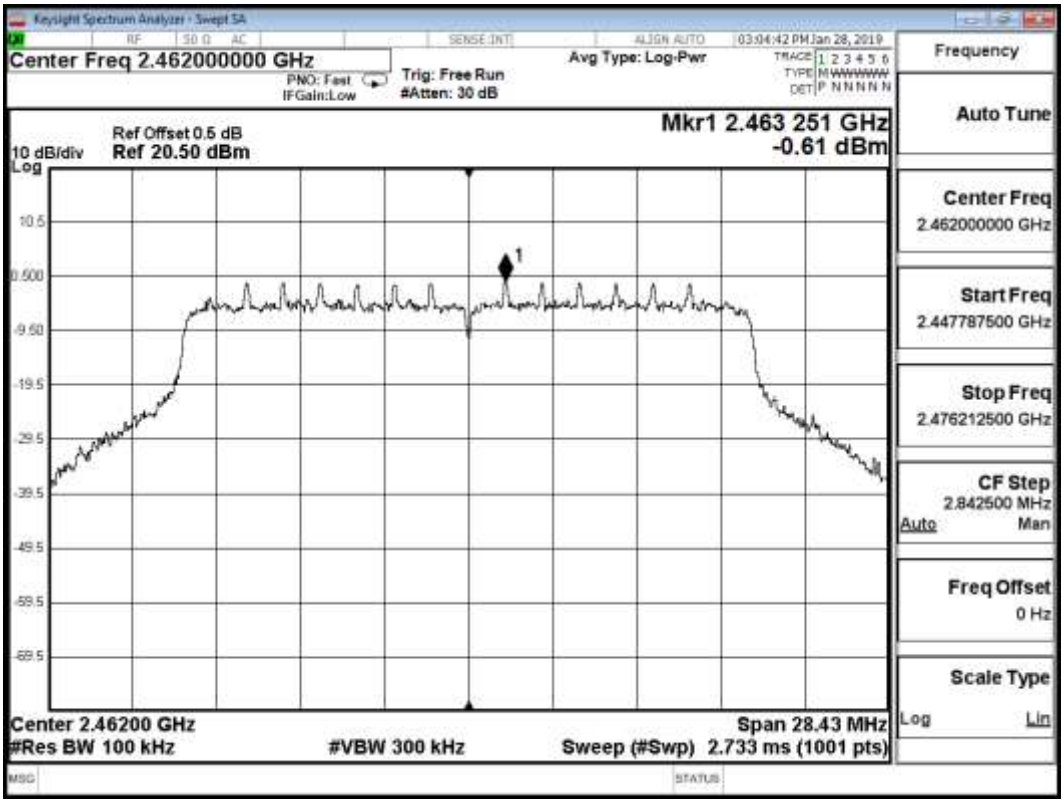


Figure Channel 12: (Chain A)

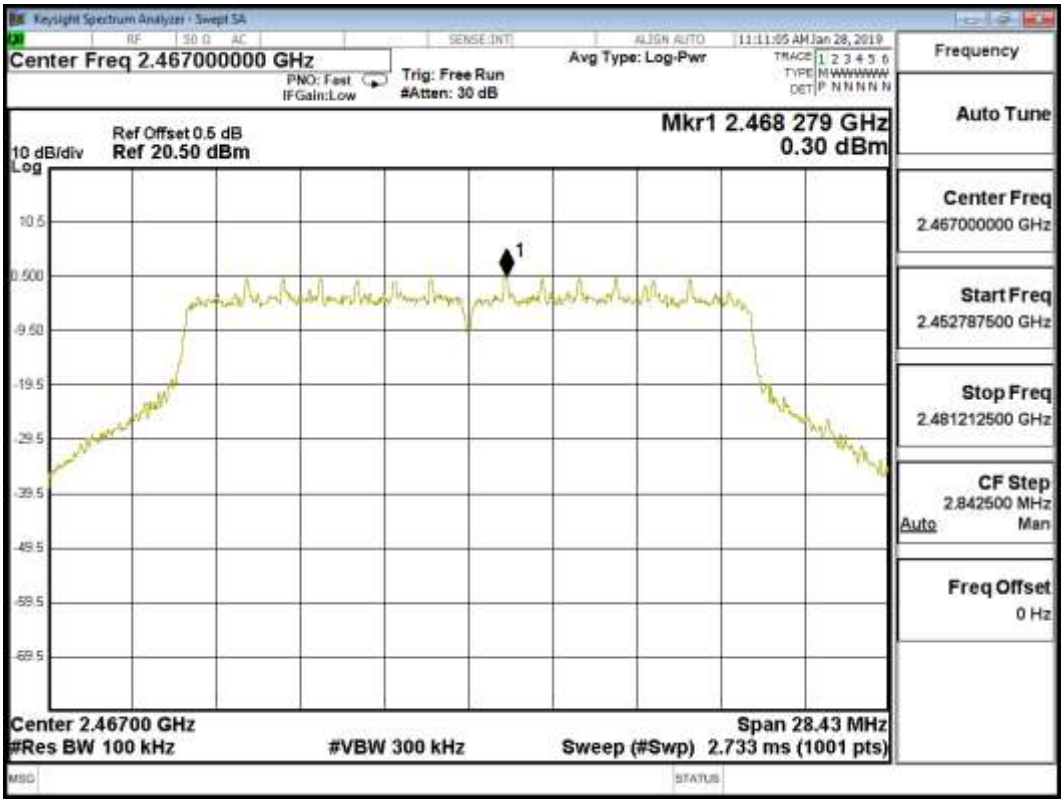


Figure Channel 12: (Chain B)

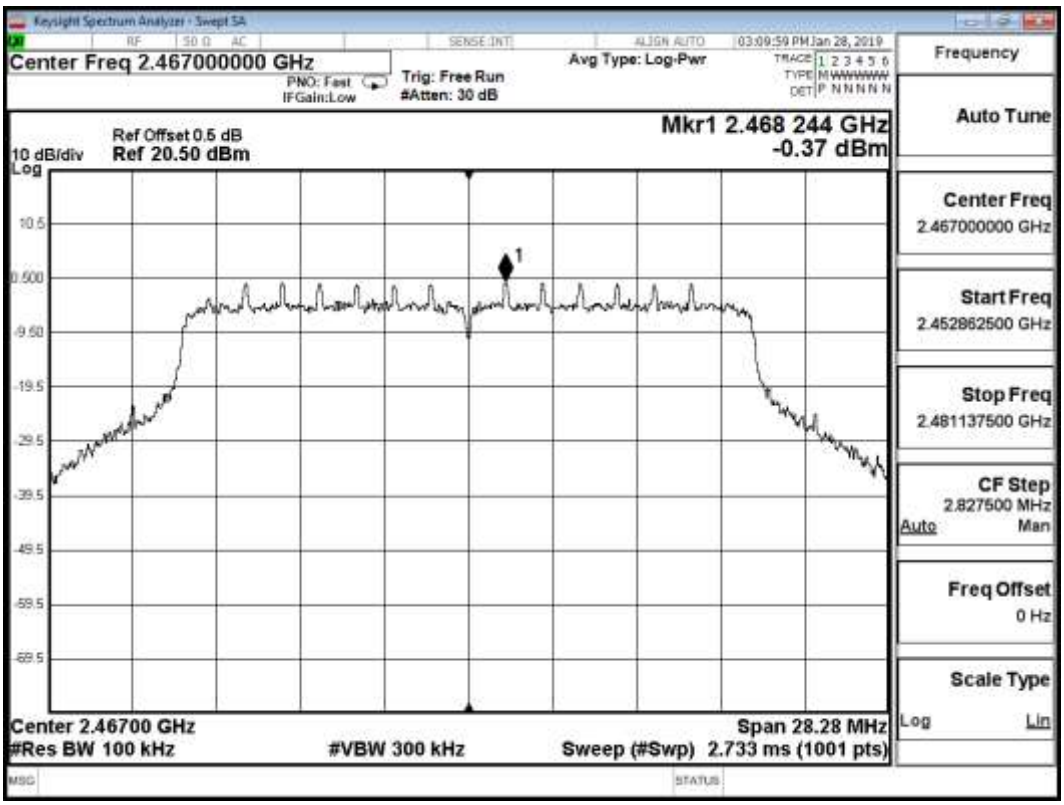


Figure Channel 13: (Chain A)

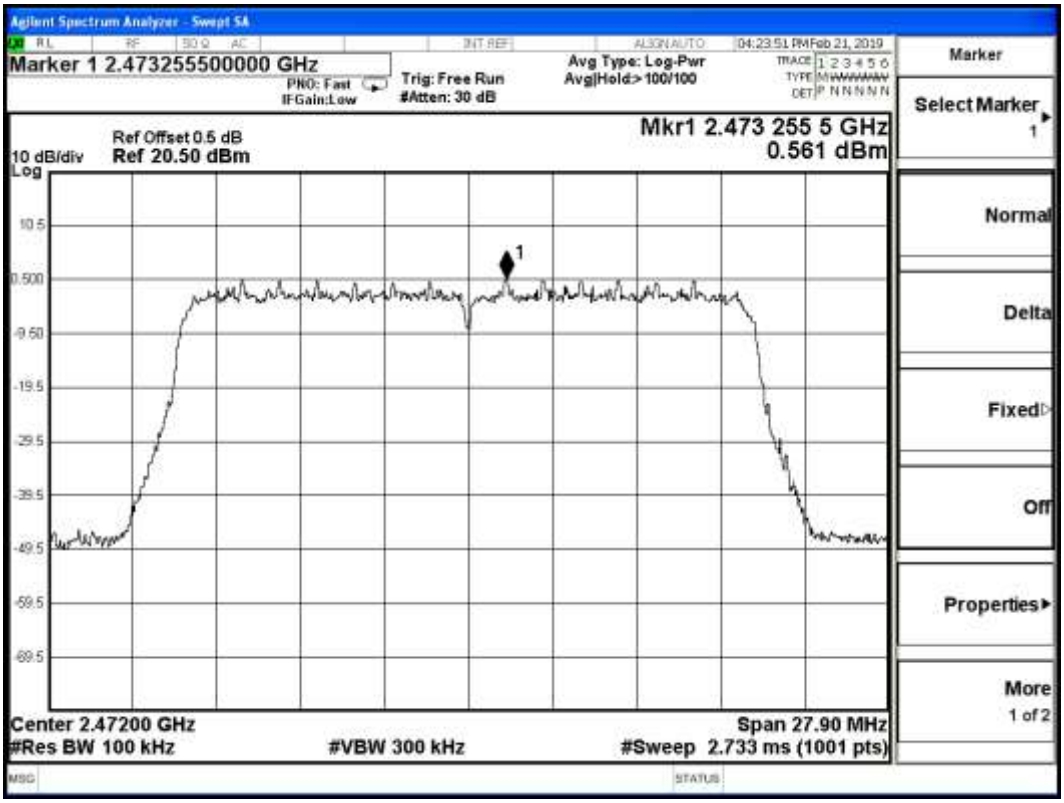
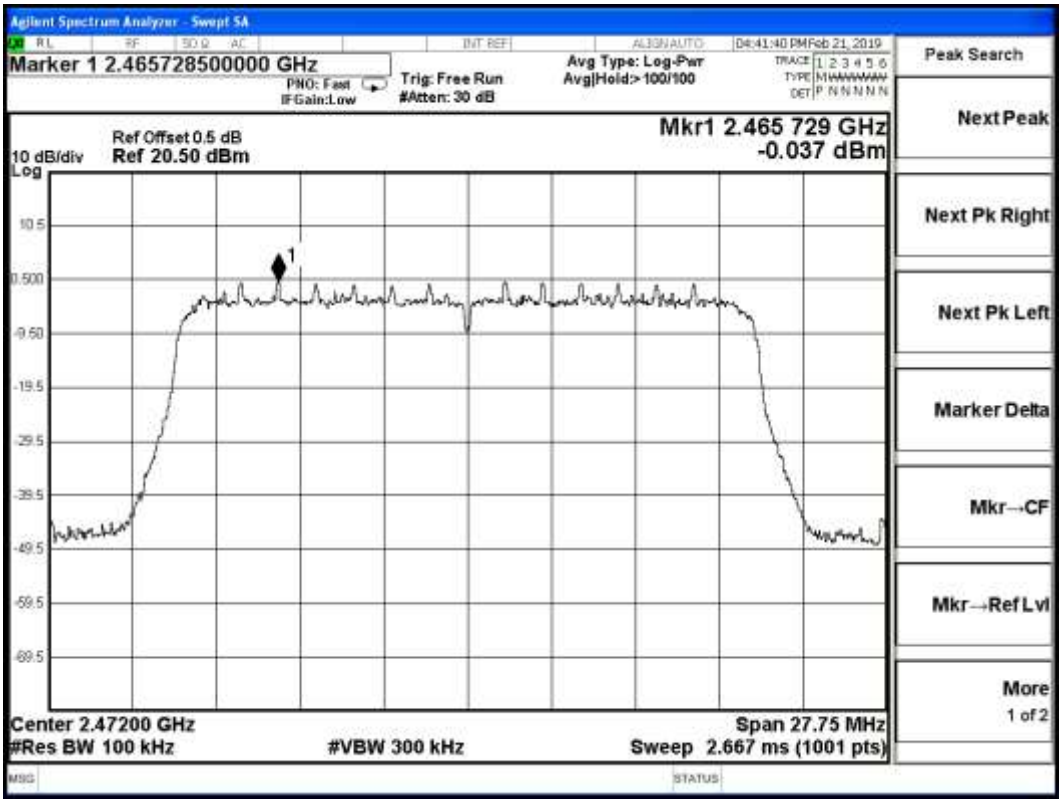


Figure Channel 13: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW　　測 試 項 目 ：功率密度
測 試 頻 道 ：- -　　測 試 模 式 ：Mode 3: MIMO: 發射器 802.11ax (40MHz)
量 測 天 線 ：- -　　測 試 距 離 ：Conducted
檢 測 器 ：峰值　　環 境 溫 度 ：20 ℃
測 試 日 期 ：108 年 01 月 28 日　　環 境 濕 度 ：50 %

Channel No.	Frequency (MHz)	Chain	PPSD/MHz (dBm)	10*log(2) (dB)	Measure Level (dBm)	Limit (dBm)	Result
03	2422.000	A	1.350	3.010	4.360	≦8dBm	Pass
		B	0.760	3.010	3.770	≦8dBm	Pass
07	2442.000	A	1.160	3.010	4.170	≦8dBm	Pass
		B	0.710	3.010	3.720	≦8dBm	Pass
09	2452.000	A	-0.900	3.010	2.110	≦8dBm	Pass
		B	-1.360	3.010	1.650	≦8dBm	Pass
10	2457.00	A	-6.020	3.010	-3.010	≦8dBm	Pass
		B	-6.440	3.010	-3.430	≦8dBm	Pass
11	2462.00	A	-0.802	3.010	2.208	≦8dBm	Pass
		B	-0.996	3.010	2.014	≦8dBm	Pass

Note:
The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 03: (Chain A)

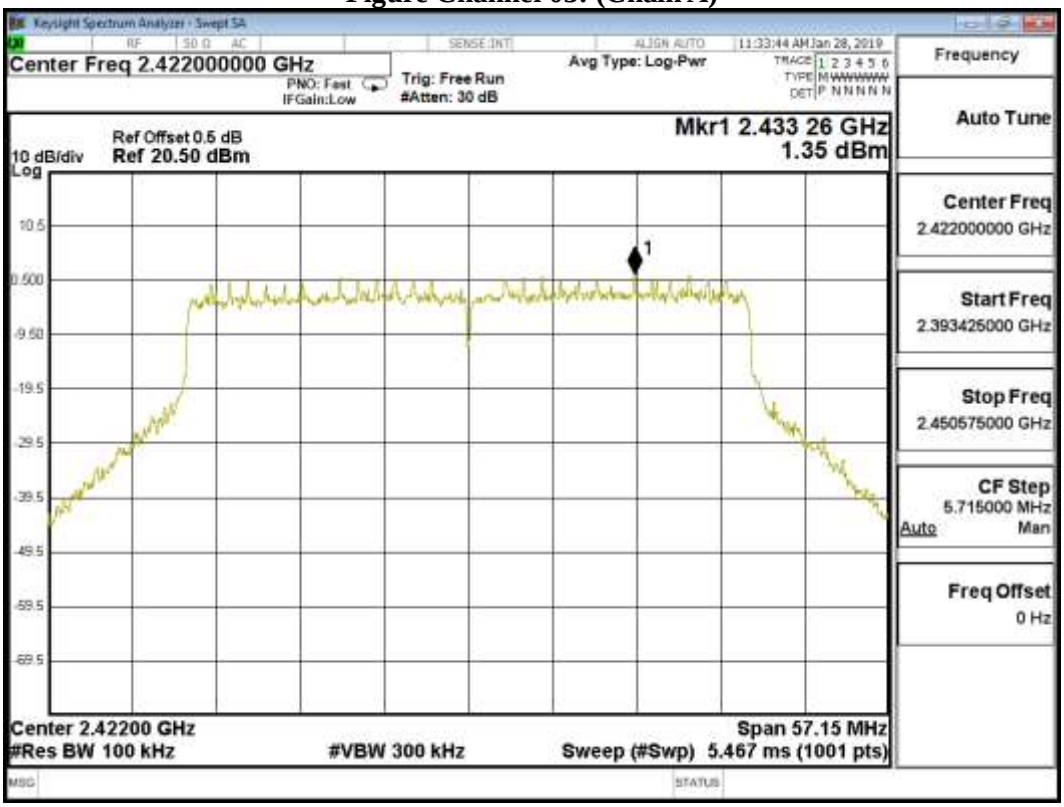


Figure Channel 03: (Chain B)

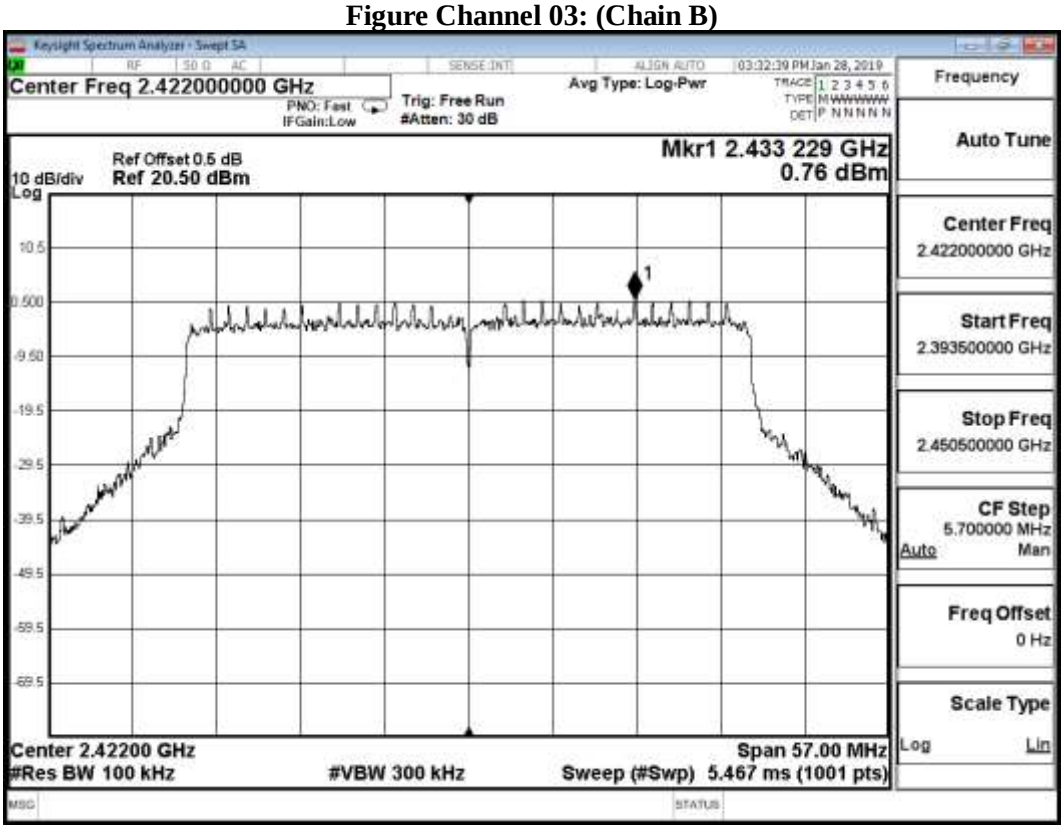


Figure Channel 07: (Chain A)

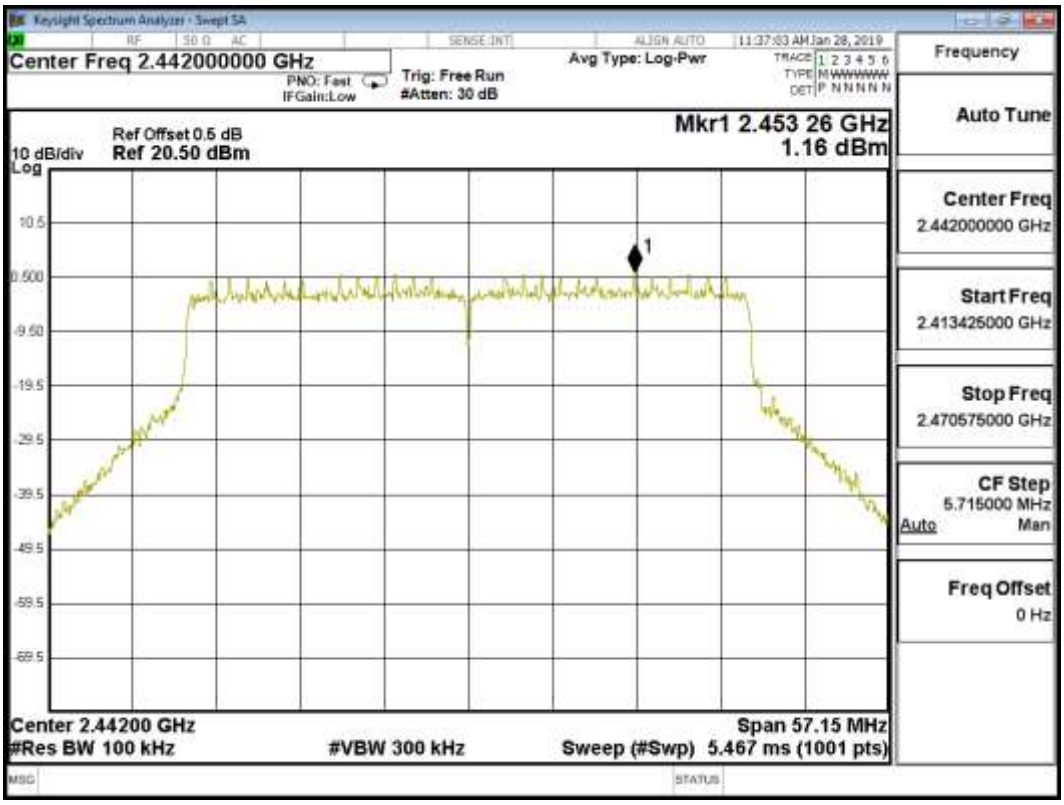


Figure Channel 07: (Chain B)

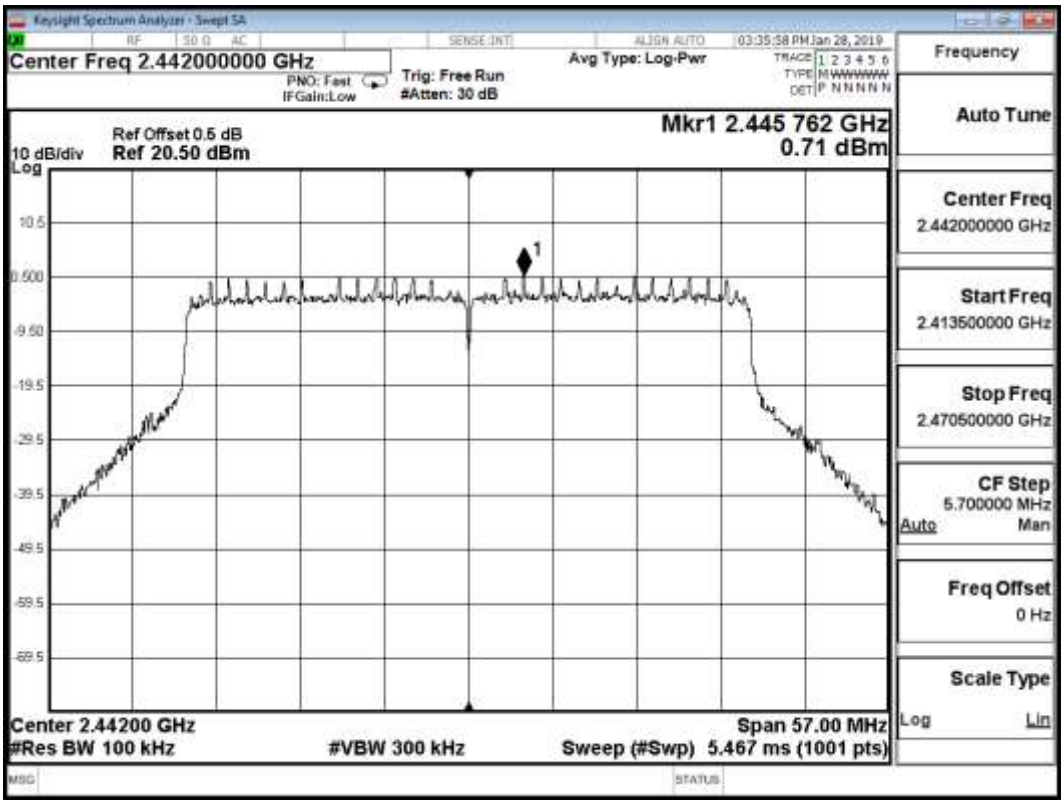


Figure Channel 09: (Chain A)

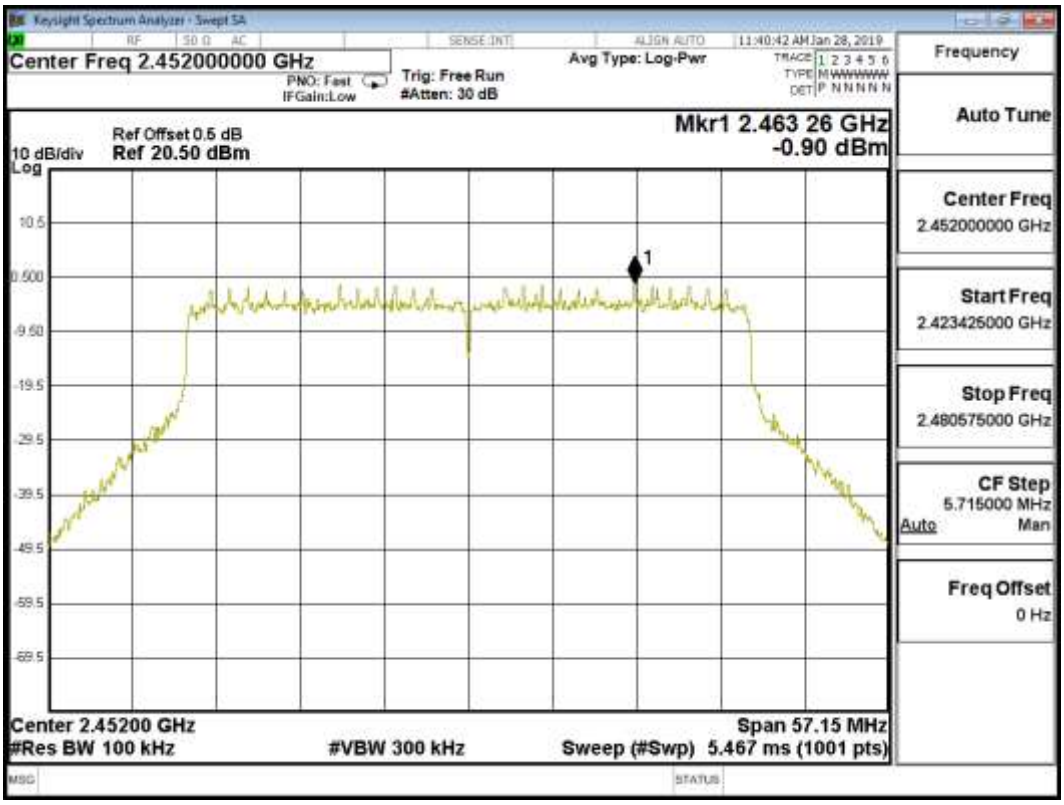


Figure Channel 09: (Chain B)

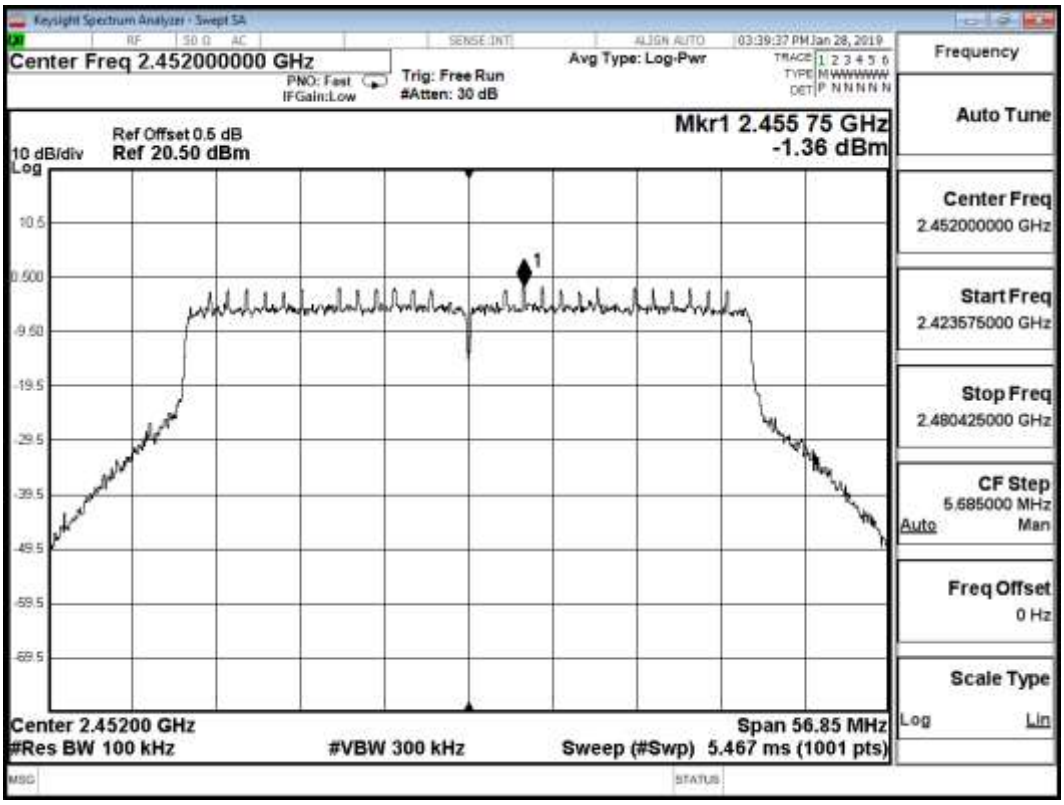


Figure Channel 10: (Chain A)

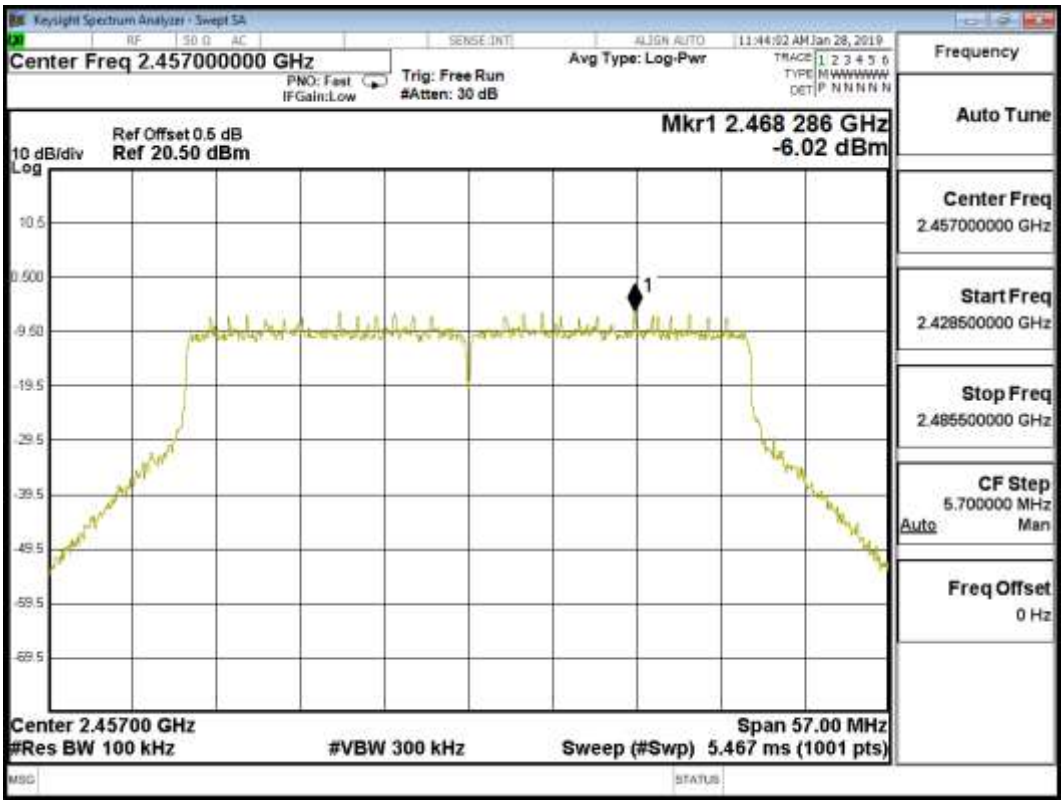


Figure Channel 10: (Chain B)

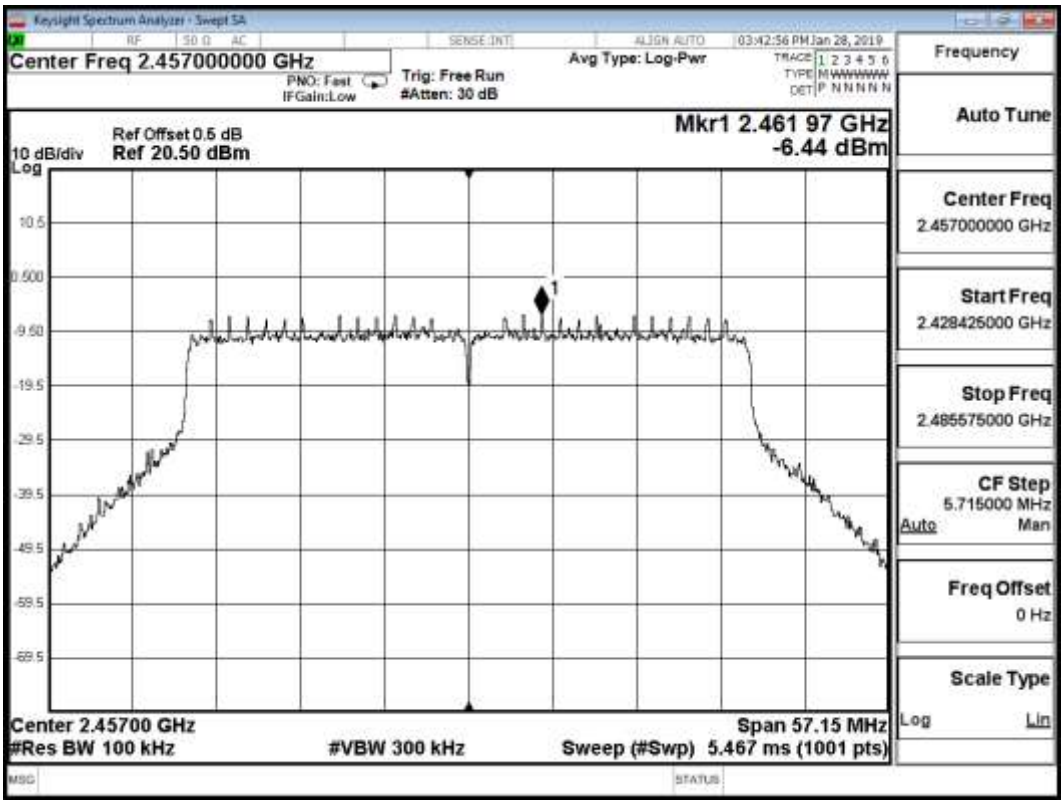


Figure Channel 11: (Chain A)

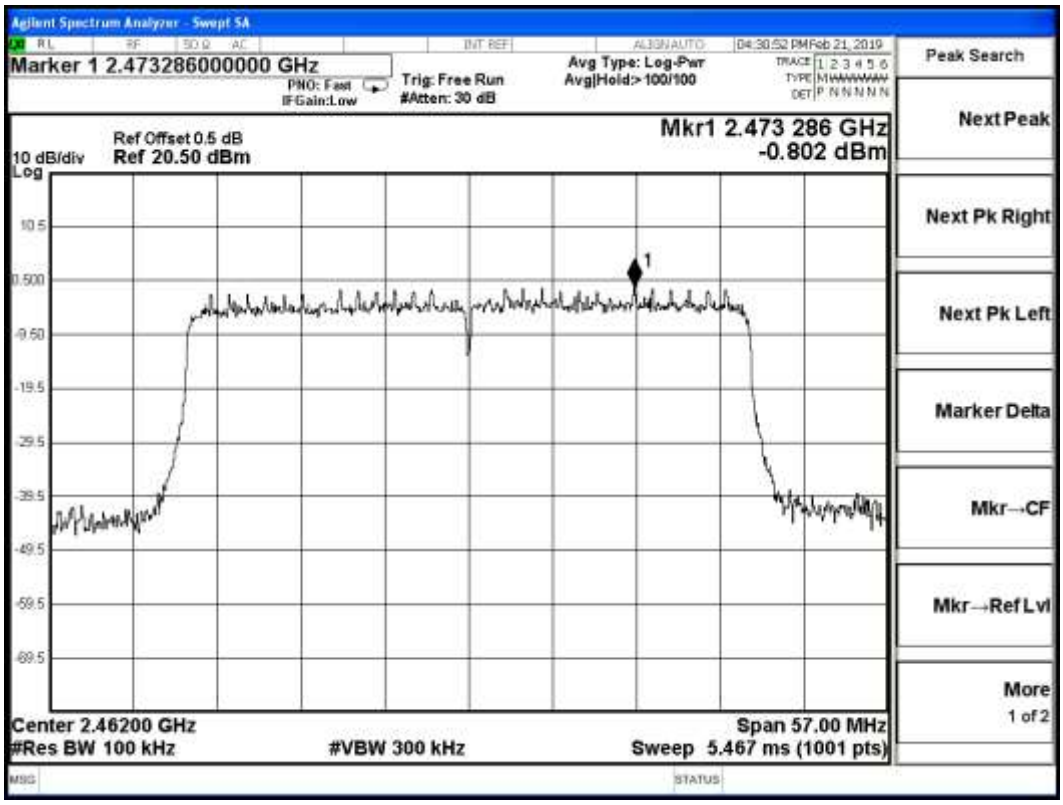
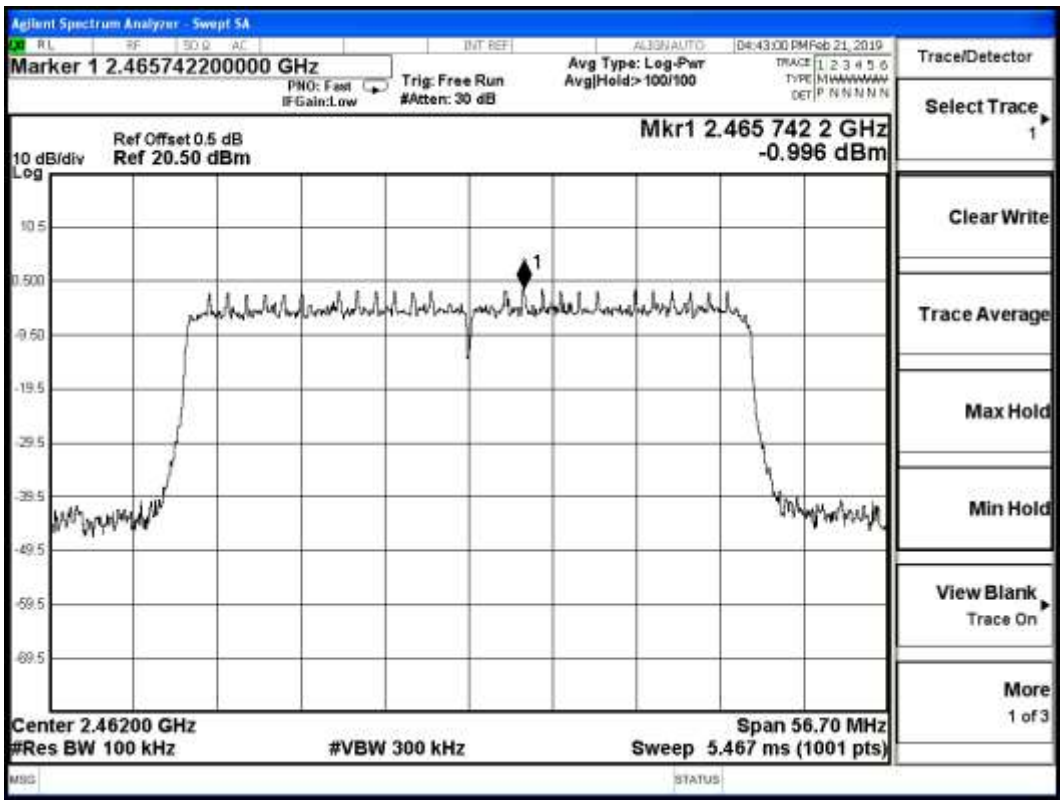


Figure Channel 11: (Chain B)



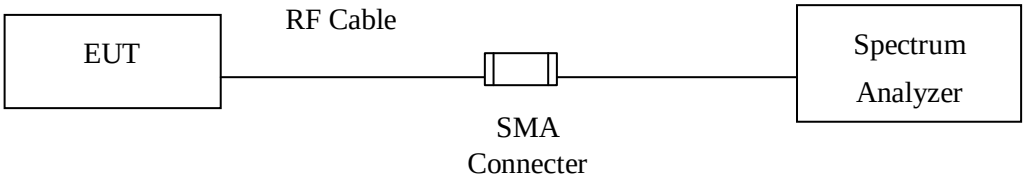
功率密度測試結果:	**PASS**

11. Duty Cycle

11.1. 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，
待測物應在正常發射狀態下量測。

11.2. 測試架構圖



11.3. 量測不確定度

此項測試之量測不確定度為± 2.31msec

11.4. Duty Cycle 測試結果

待測物名稱：Intel® Wi-Fi 6 AX200
待測物型號：AX200NGW
測試項目：Duty Cycle
測試頻道：--
測試模式：--
量測天線：--
測試距離：Conducted
檢測器：峰值
環境溫度：20 ℃
測試日期：108 年 01 月 14 日
環境濕度：50 %

Duty Cycle Formula:
Duty Cycle = Ton / (Ton + Toff)
Duty Factor = 10 Log (1/Duty Cycle)
Results:

SISO A

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	8.3623	8.4058	99.48	0.02
802.11g	0.2116	0.2580	82.02	0.86
802.11n20	0.2319	0.2783	83.33	0.79
802.11n40	0.2464	0.2928	84.16	0.75
802.11ax20	0.2348	0.2812	83.50	0.78
802.11ax40	0.2319	0.2812	82.47	0.84

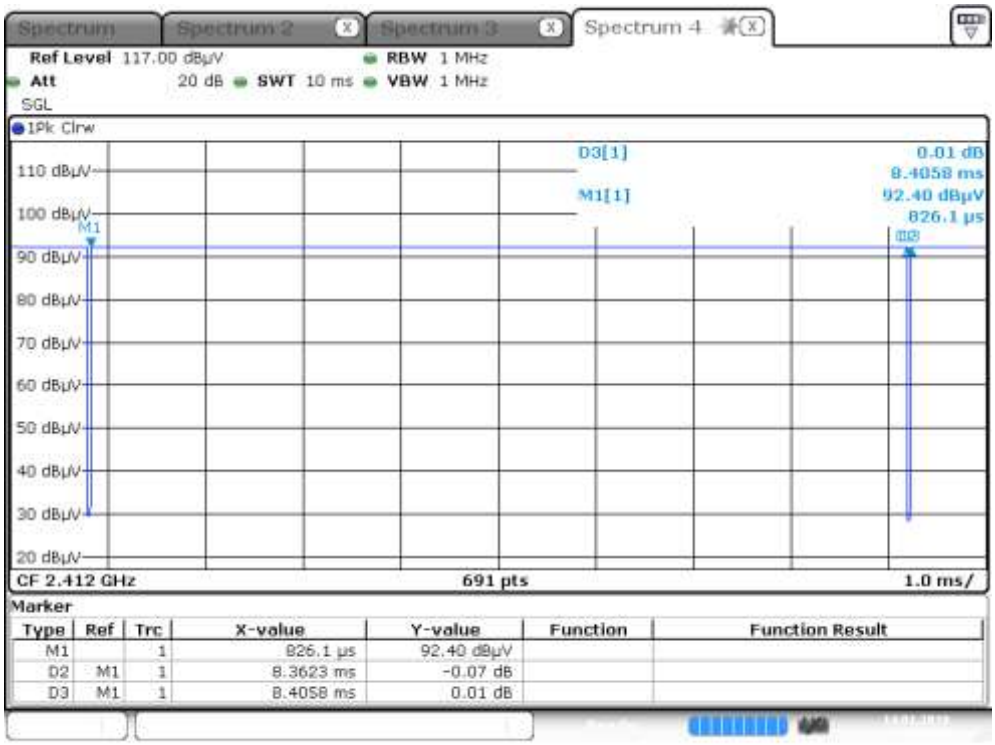
SISO B

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	8.3478	8.4058	99.31	0.03
802.11g	0.2145	0.2609	82.22	0.85
802.11n20	0.2319	0.2783	83.33	0.79
802.11n40	0.2319	0.3000	77.29	1.12
802.11ax20	0.2261	0.2725	82.98	0.81
802.11ax40	0.2058	0.2754	74.74	1.26

MIMO

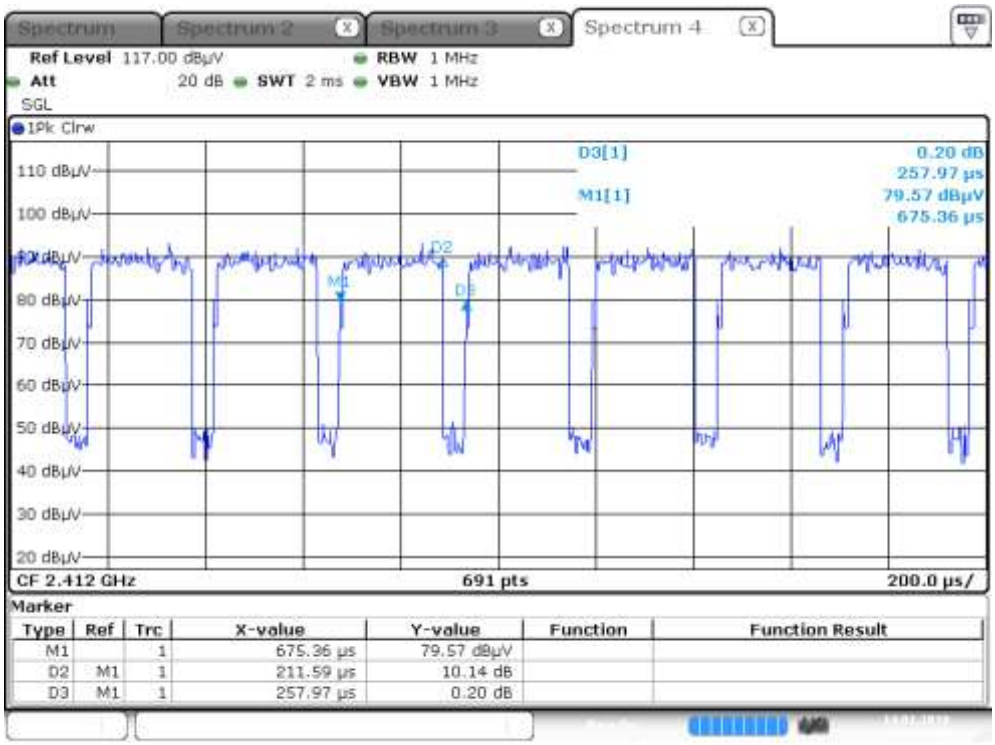
2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11n20	0.2464	0.2957	83.34	0.79
802.11n40	0.2435	0.2928	83.17	0.80
802.11ax20	0.2261	0.2754	82.11	0.86
802.11ax40	0.2406	0.2899	83.00	0.81

802.11b (SISO A)



Date: 14.JAN.2019 19:30:26

802.11g (SISO A)



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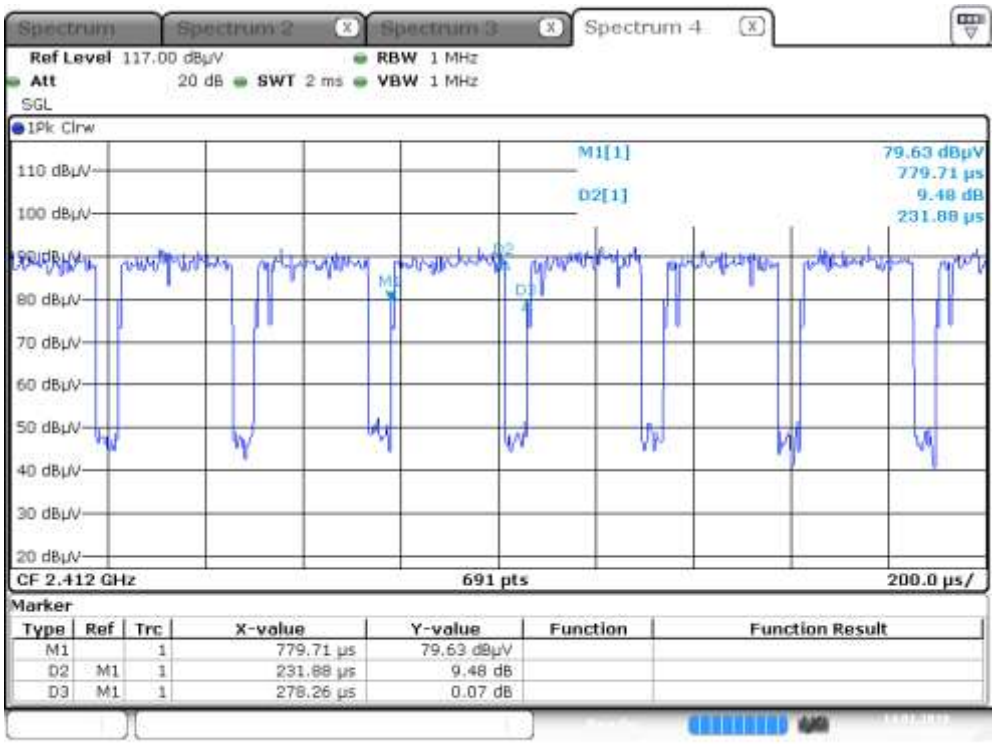
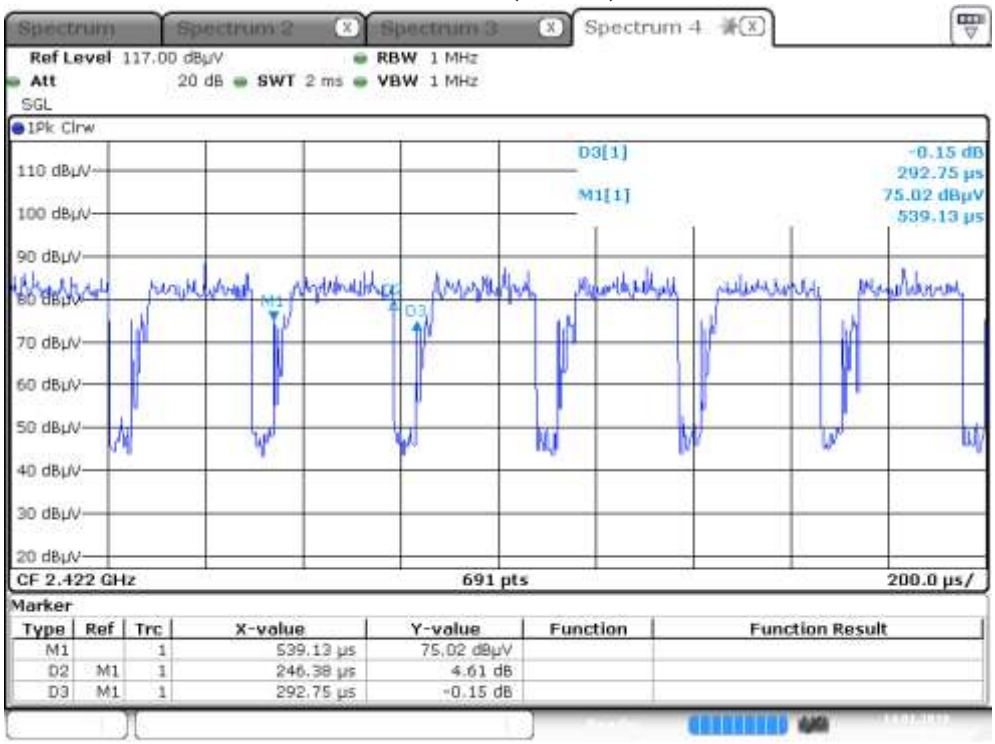
802.11n20 (SISO A)



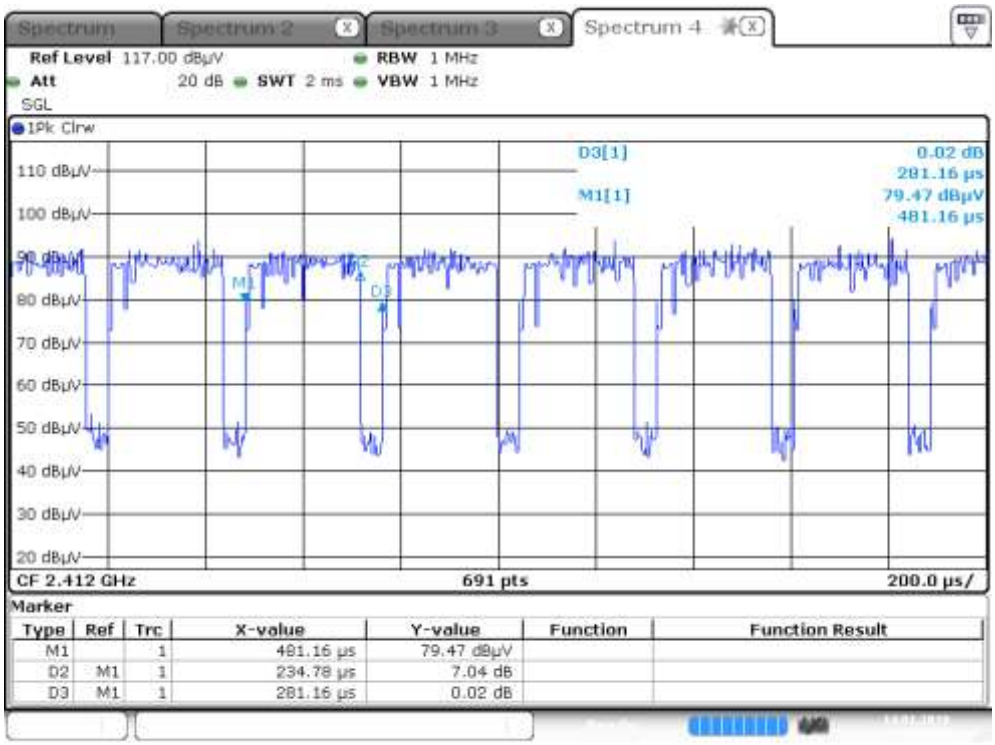
Date: 14.JAN.2019 19:44:35

802.11n40 (SISO A)



Date: 14.JAN.2019 19:46:56

802.11ax20 (SISO A)



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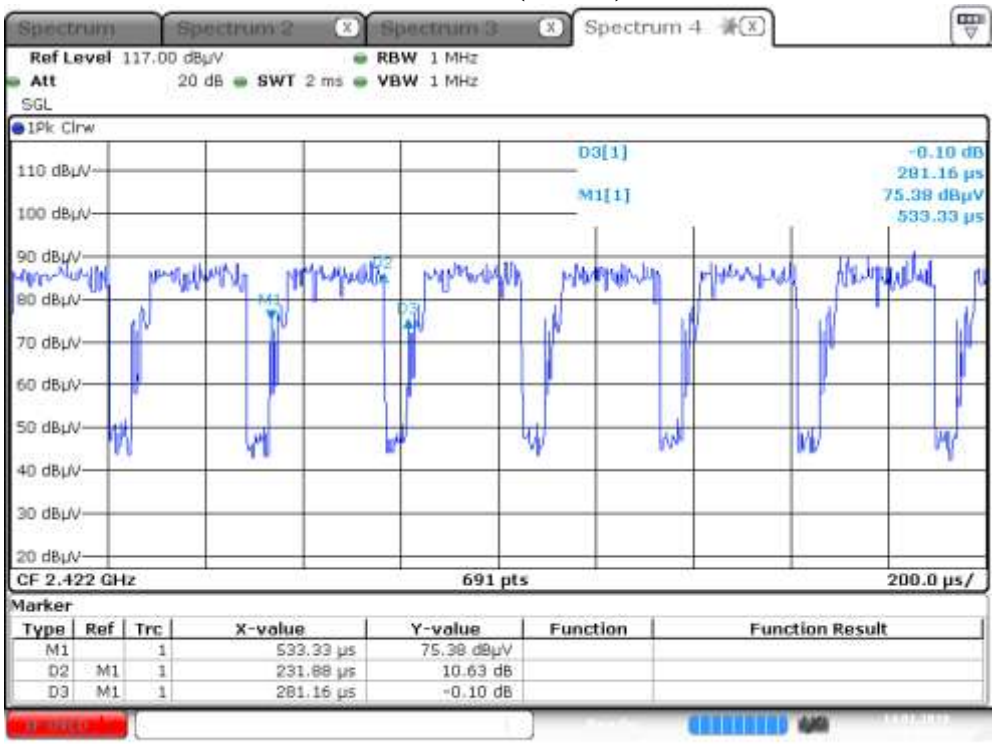
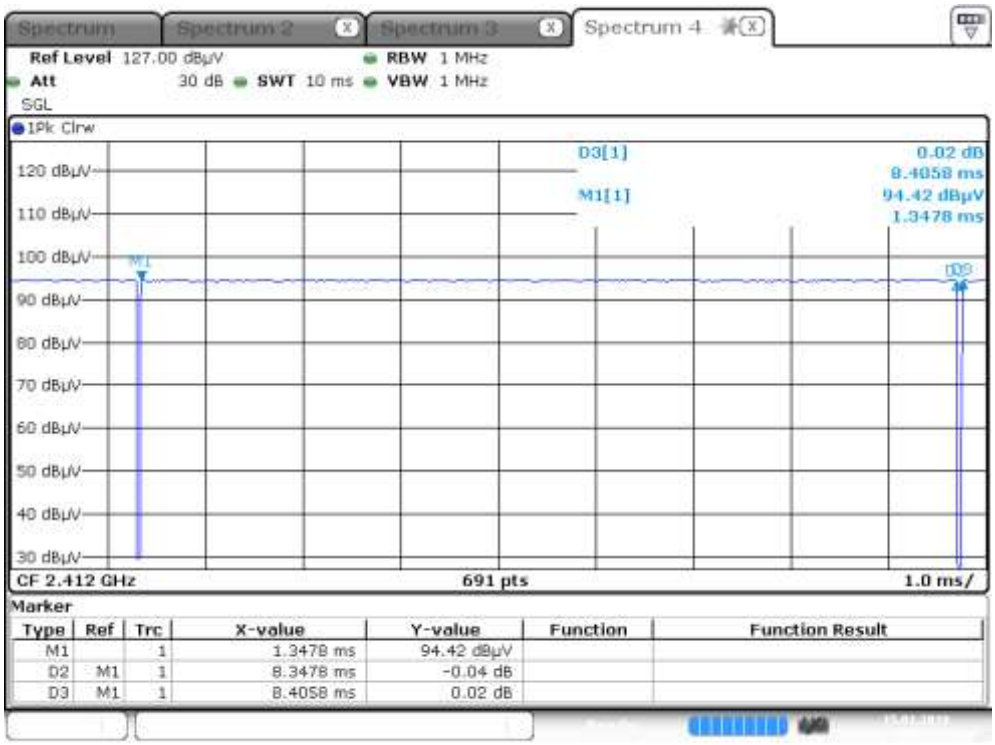
802.11ax40 (SISO A)

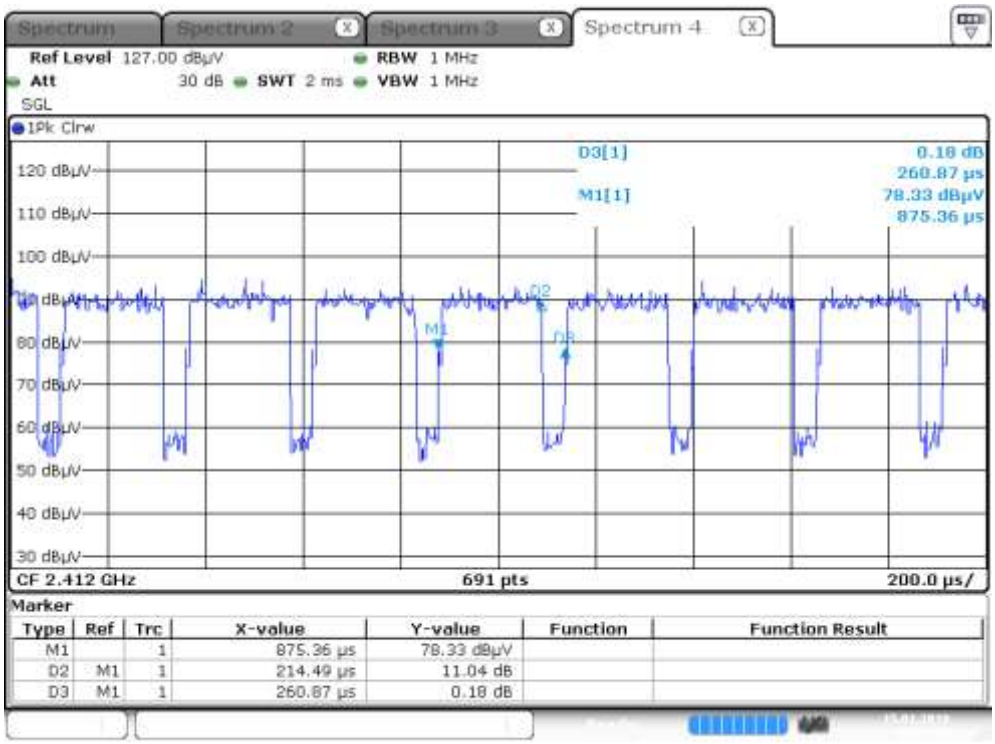


Date: 14.JAN.2019 20:00:28

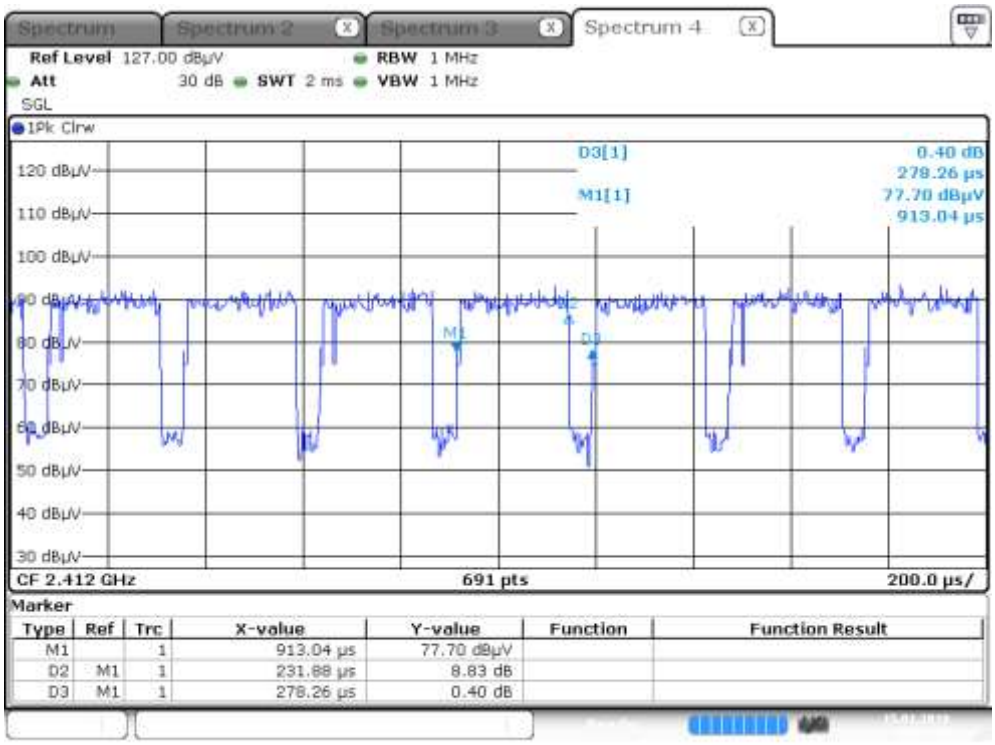
802.11b (SISO B)



802.11g (SISO B)

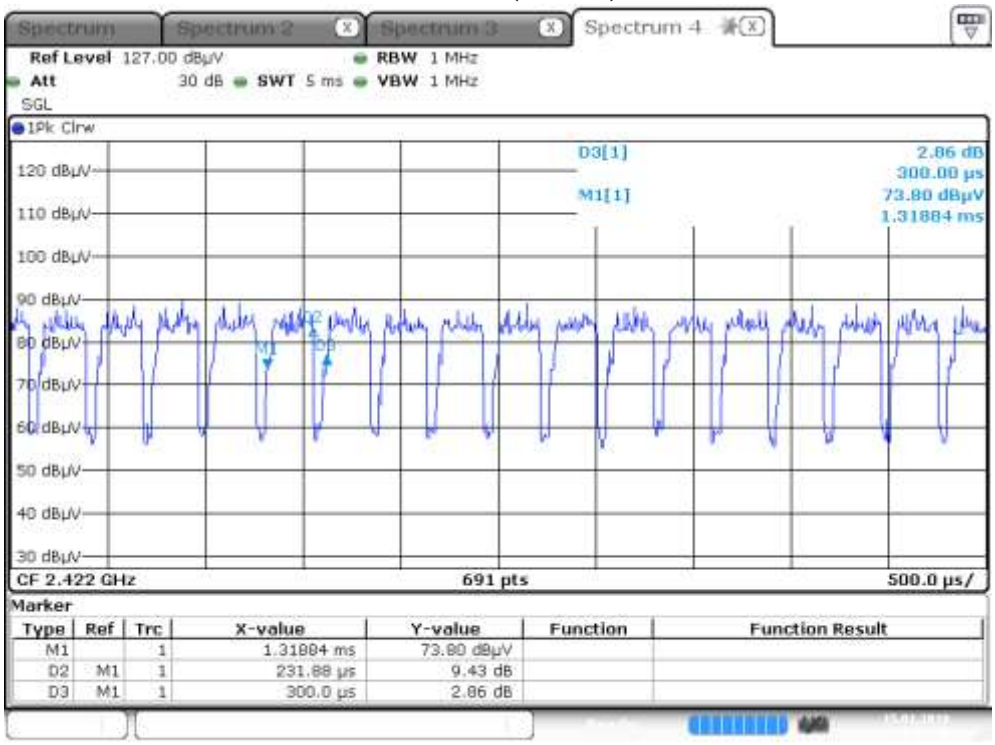


802.11n20 (SISO B)



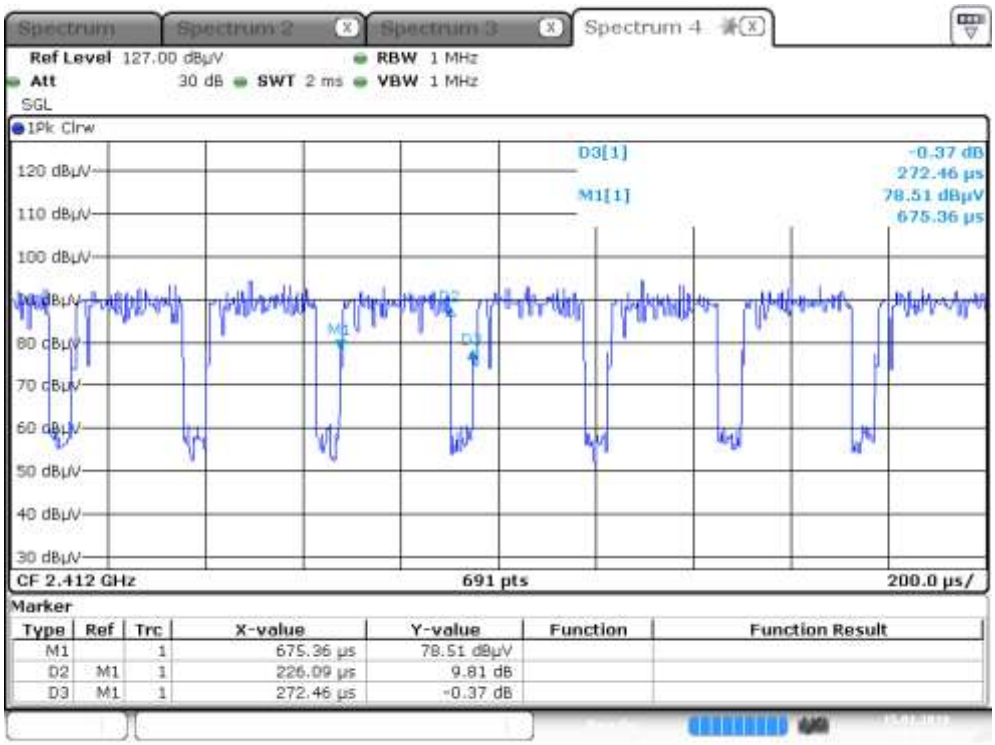
Date: 15.JAN.2019 09:59:49

802.11n40 (SISO B)



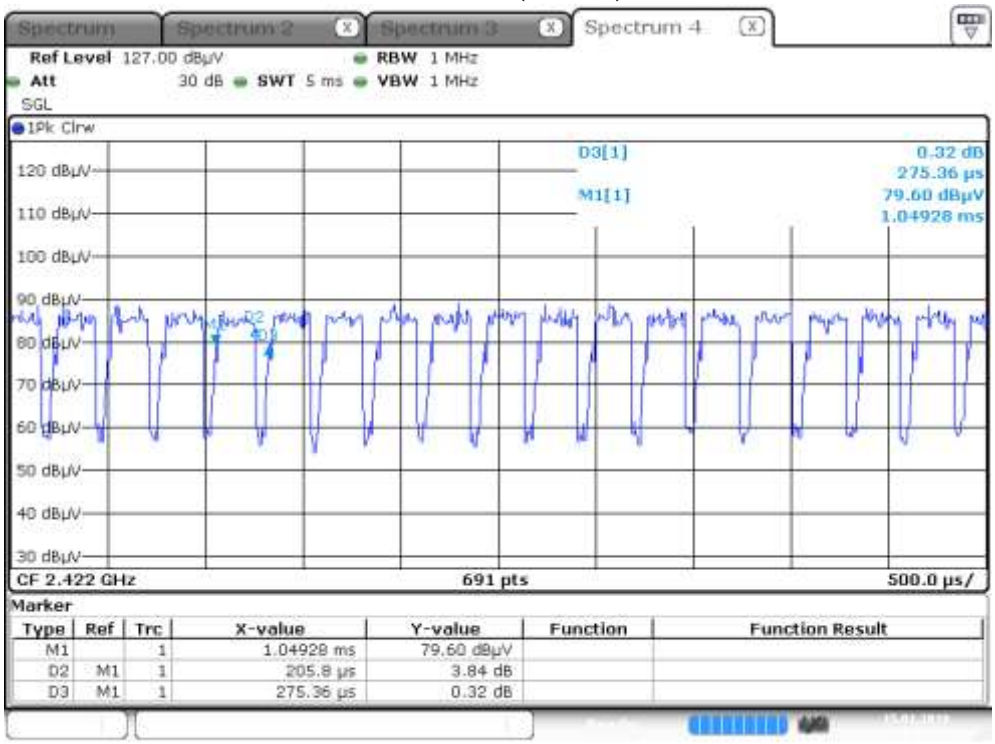
Date: 15.JAN.2019 10:01:40

802.11ax20 (SISO B)



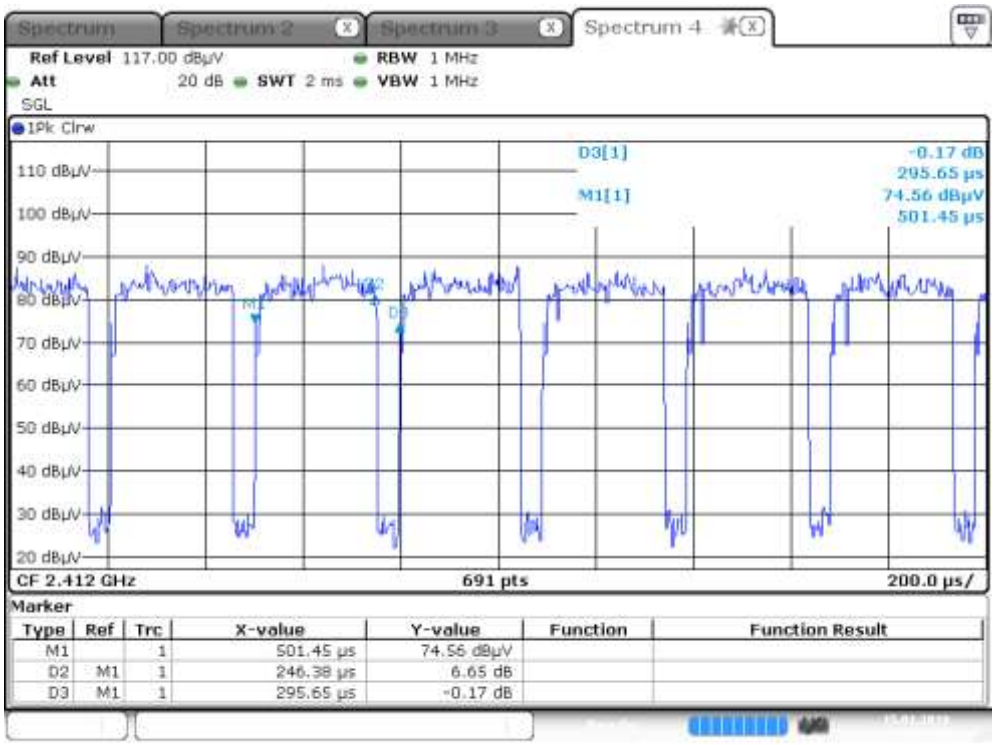
Date: 15.JAN.2019 10:10:46

802.11ax40 (SISO B)



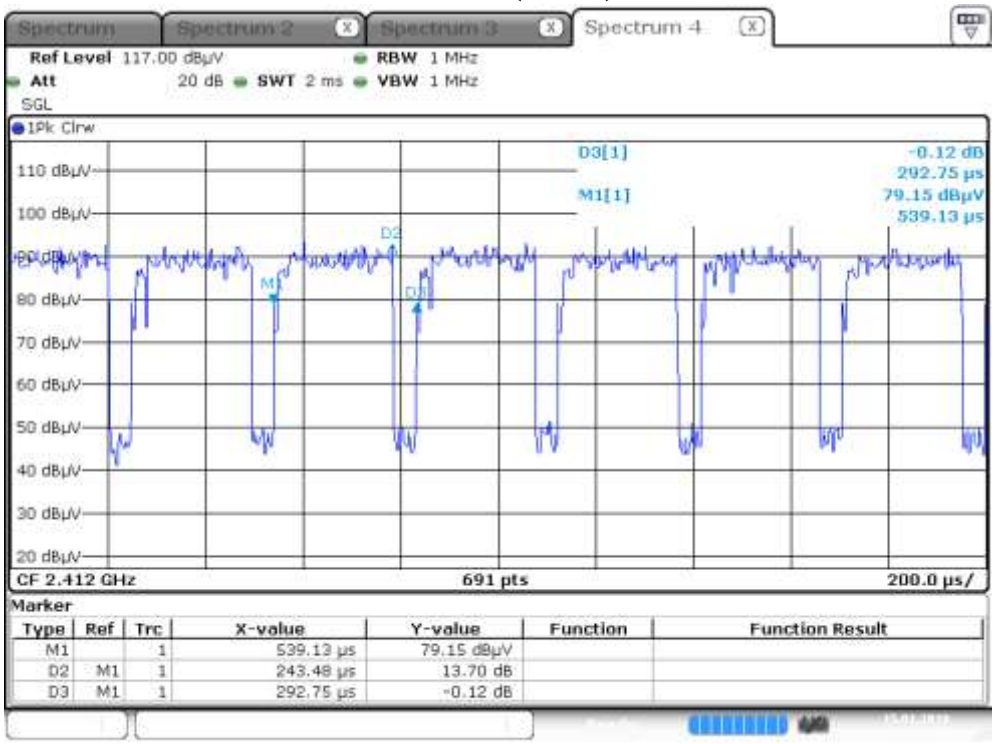
Date: 15.JAN.2019 10:13:11

802.11n20 (MIMO)



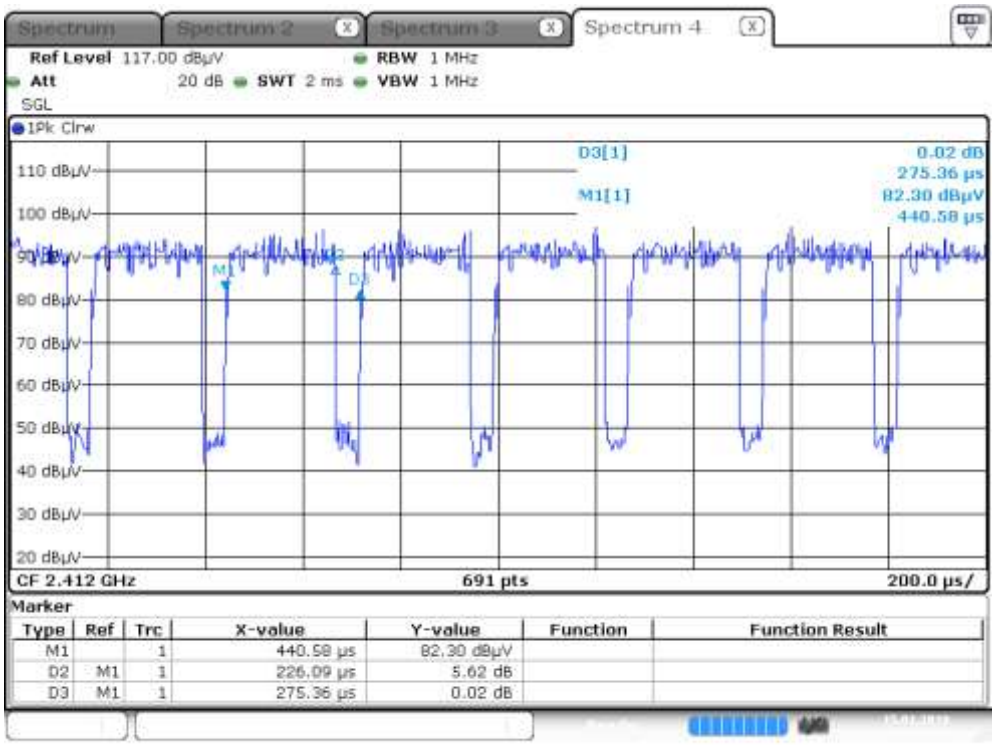
Date: 15.JAN.2019 16:53:06

802.11n40 (MIMO)



Date: 15.JAN.2019 17:26:59

802.11ax20 (MIMO)



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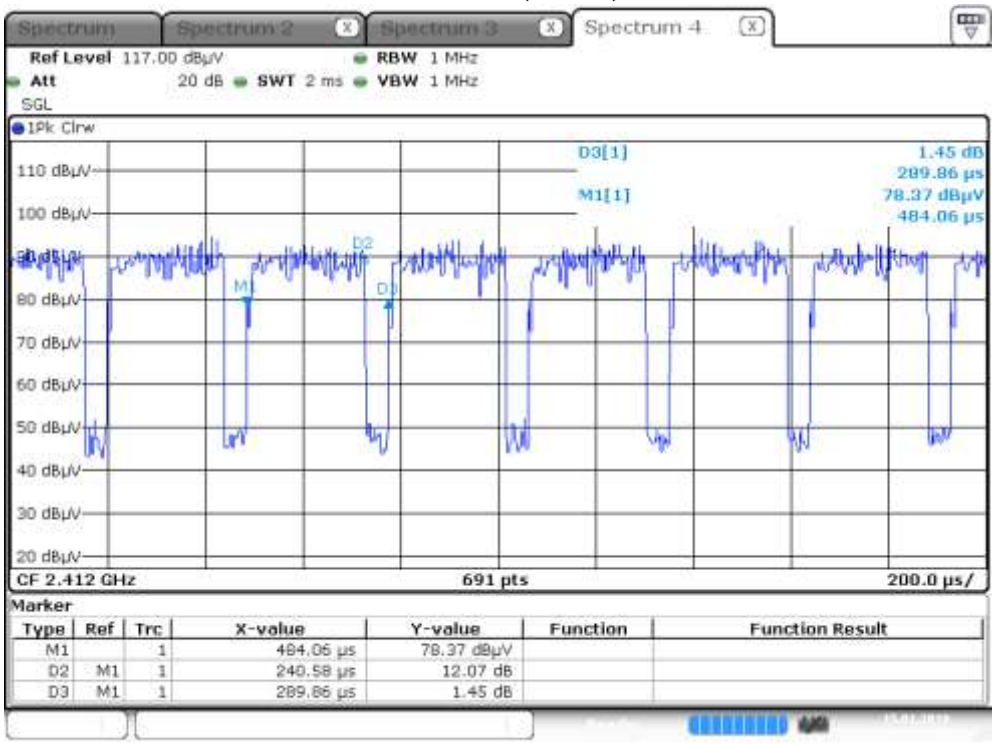
802.11ax40 (MIMO)



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