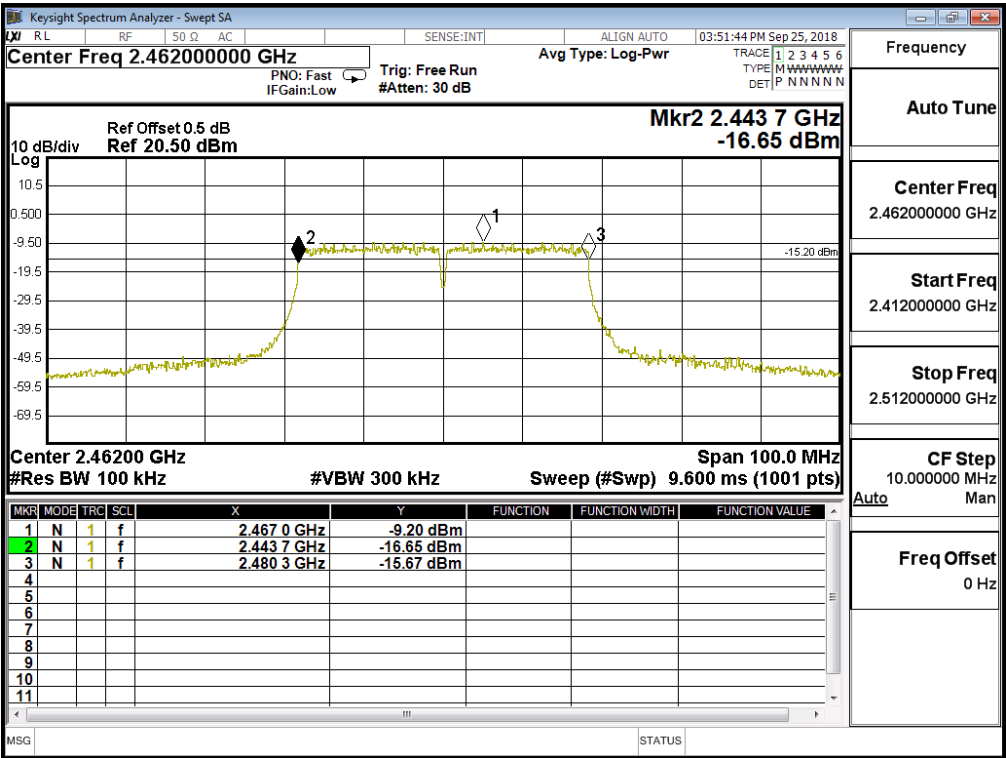


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 2: SISO B: 發射器 802.11b

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
01	2412	10300	>500	Pass
07	2442	10300	>500	Pass
11	2462	10300	>500	Pass
12	2467	10250	>500	Pass
13	2472	10300	>500	Pass

Figure Channel 01:

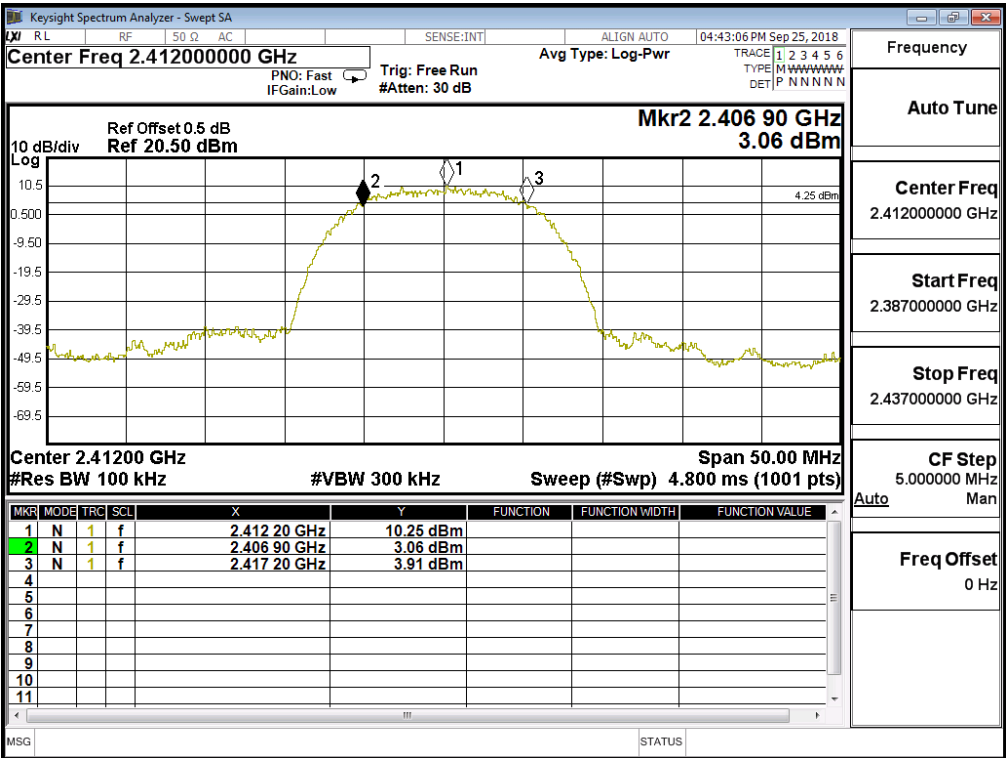


Figure Channel 07:

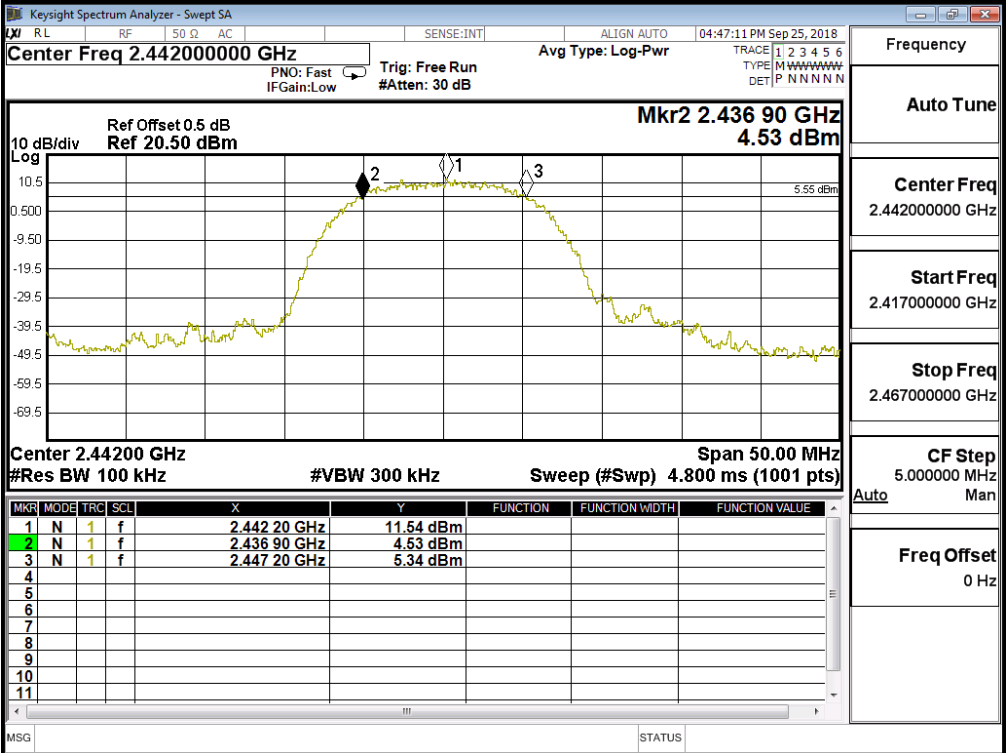


Figure Channel 11:

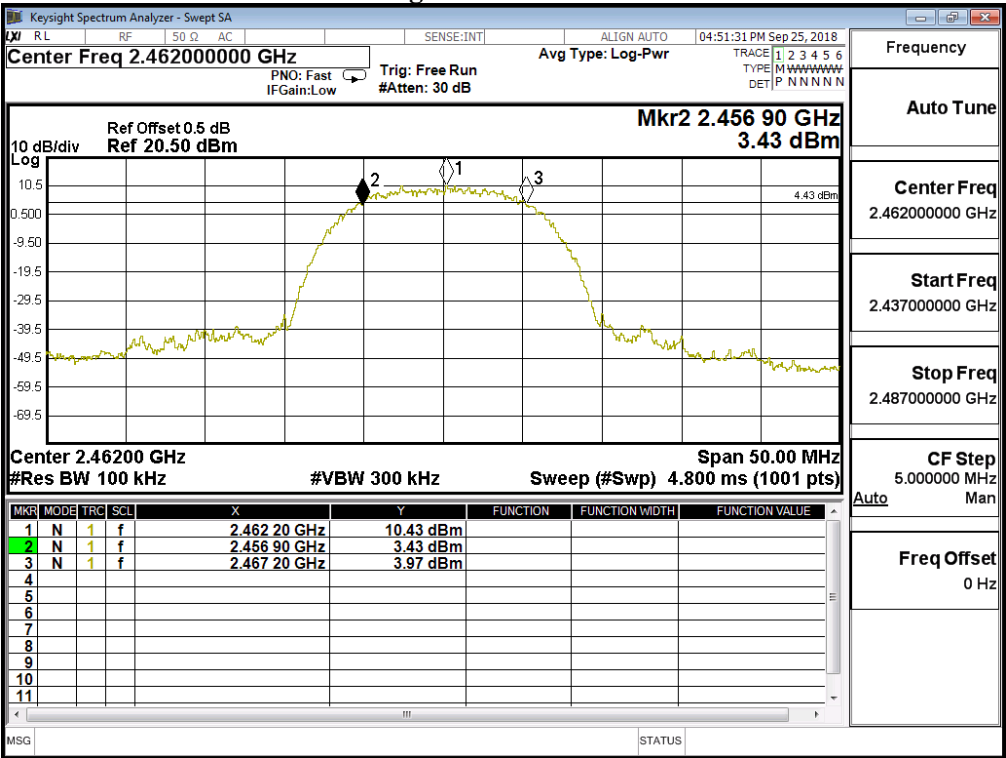


Figure Channel 12:

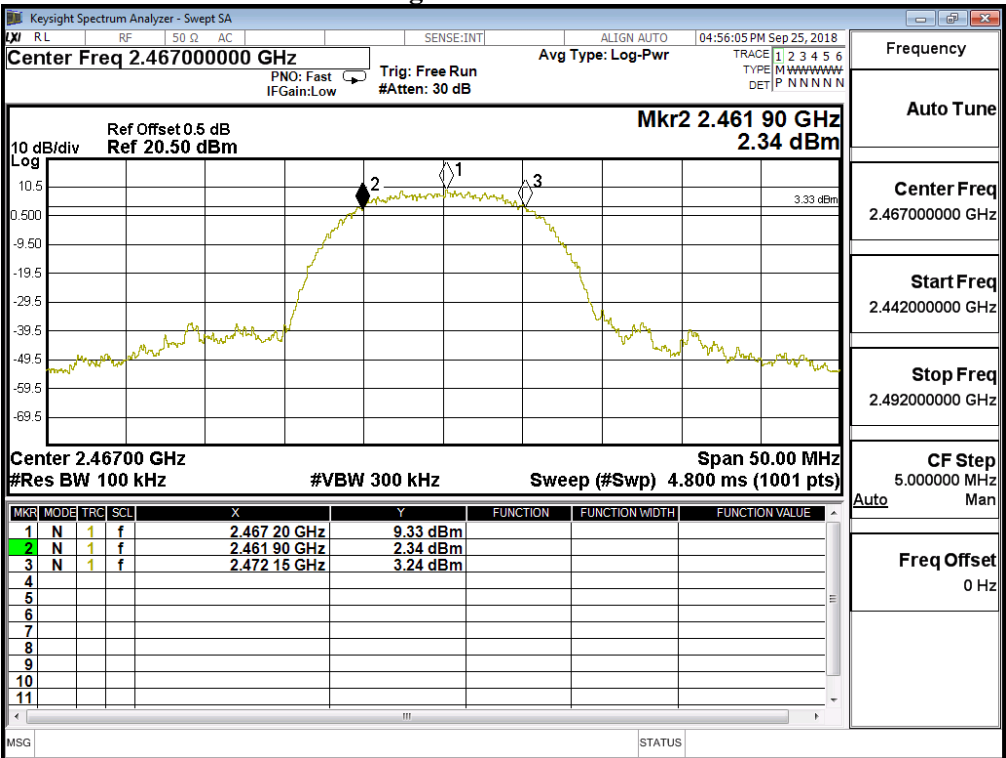
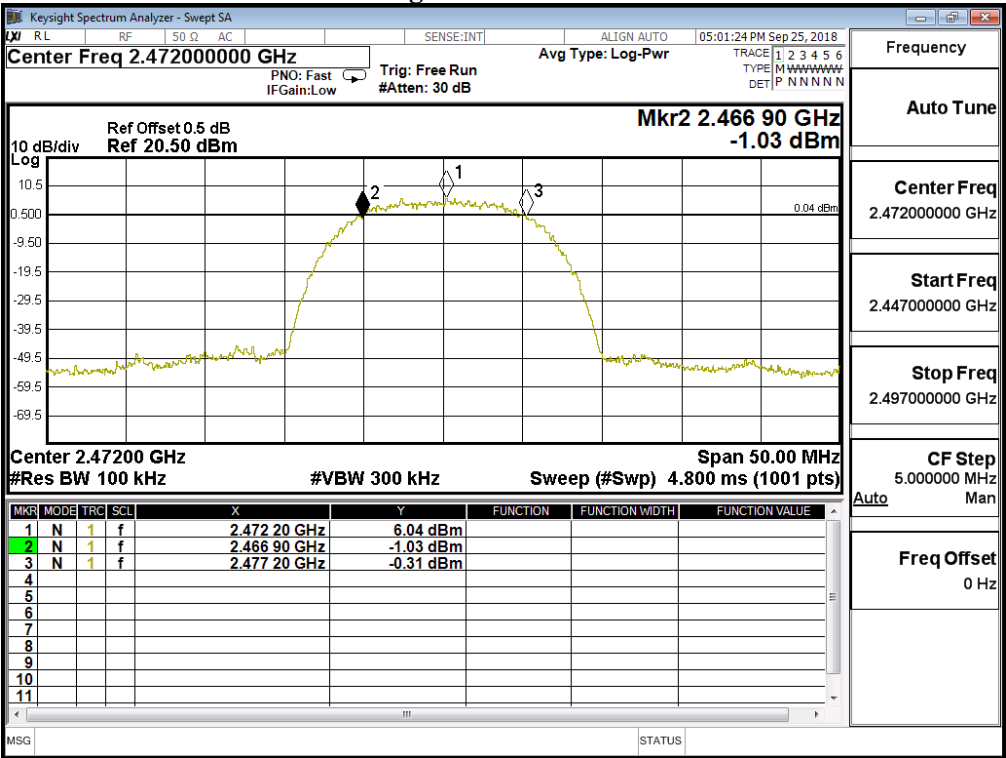


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 2: SISO B: 發射器 802.11g

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
01	2412	16600	>500	Pass
07	2442	16600	>500	Pass
11	2462	16600	>500	Pass
12	2467	16600	>500	Pass
13	2472	16600	>500	Pass

Figure Channel 01:

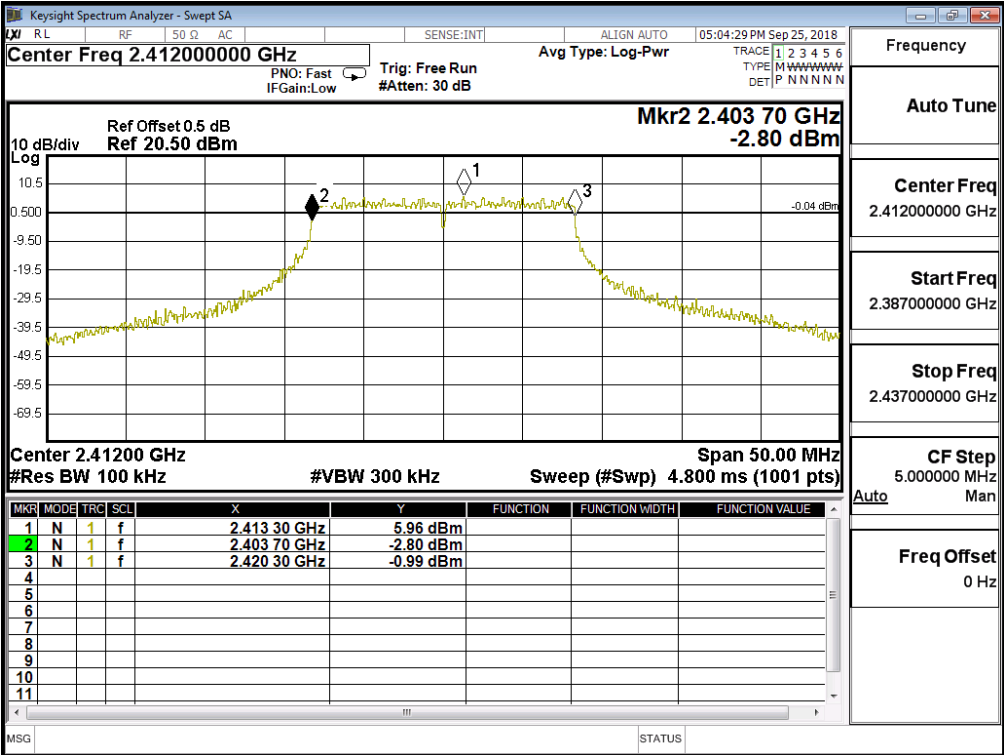


Figure Channel 07:

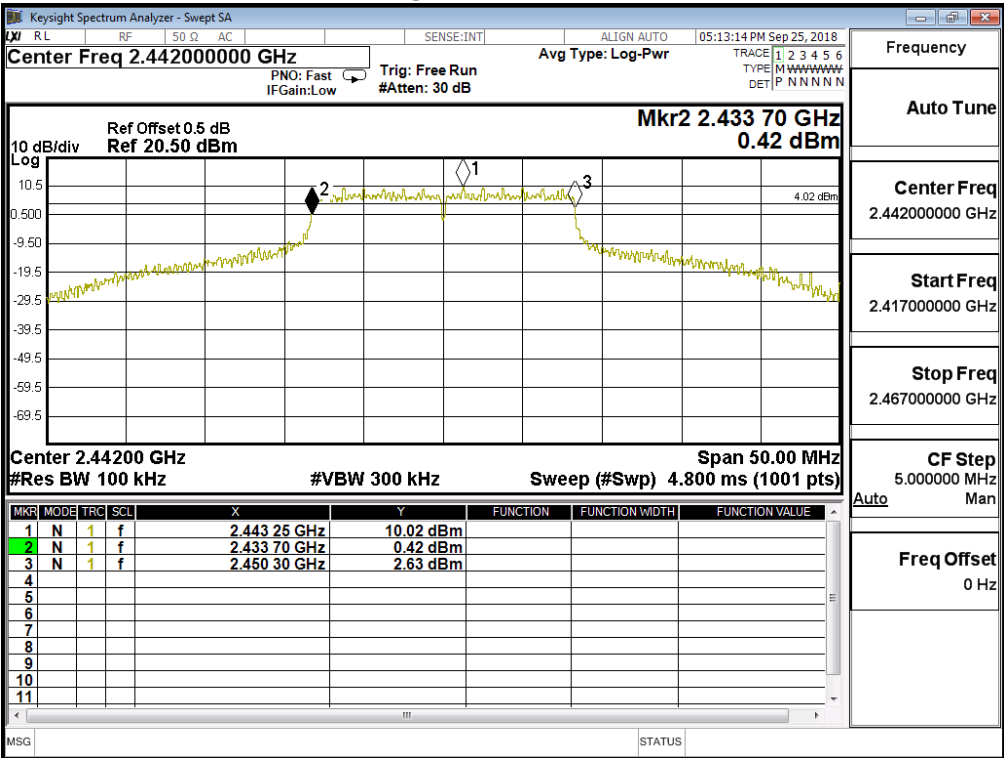


Figure Channel 11:

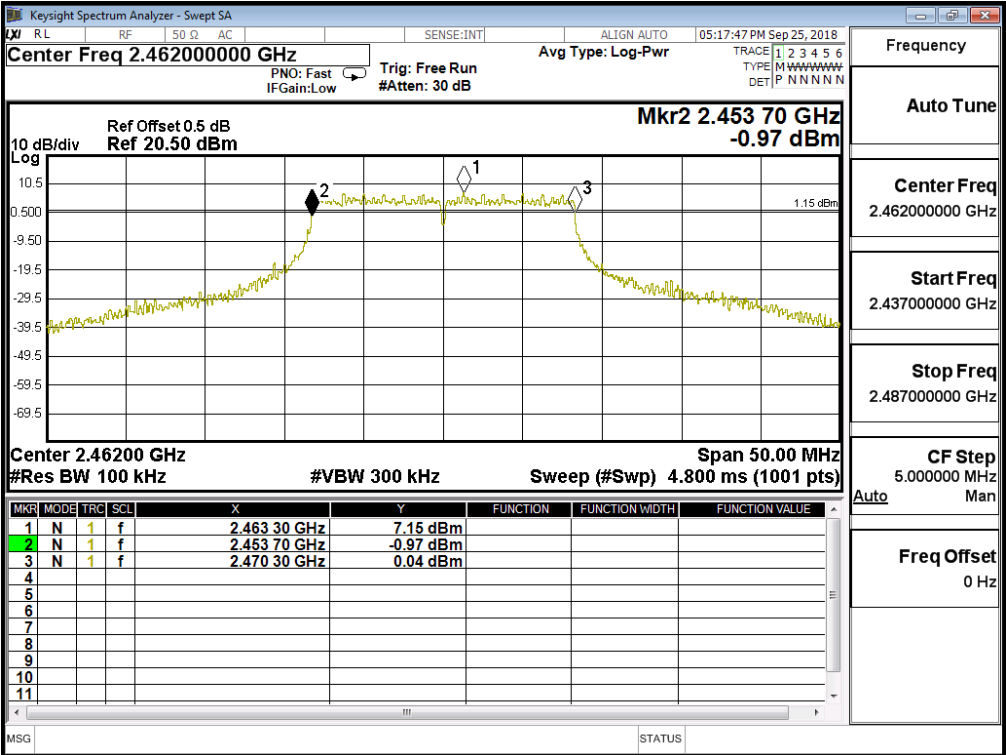


Figure Channel 12:

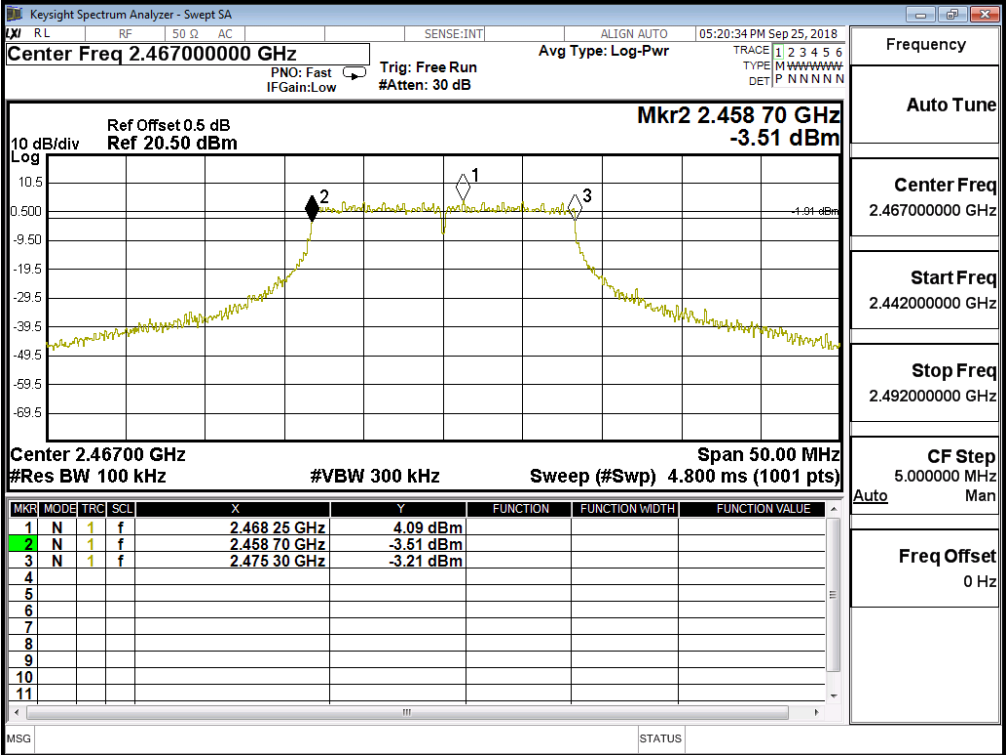
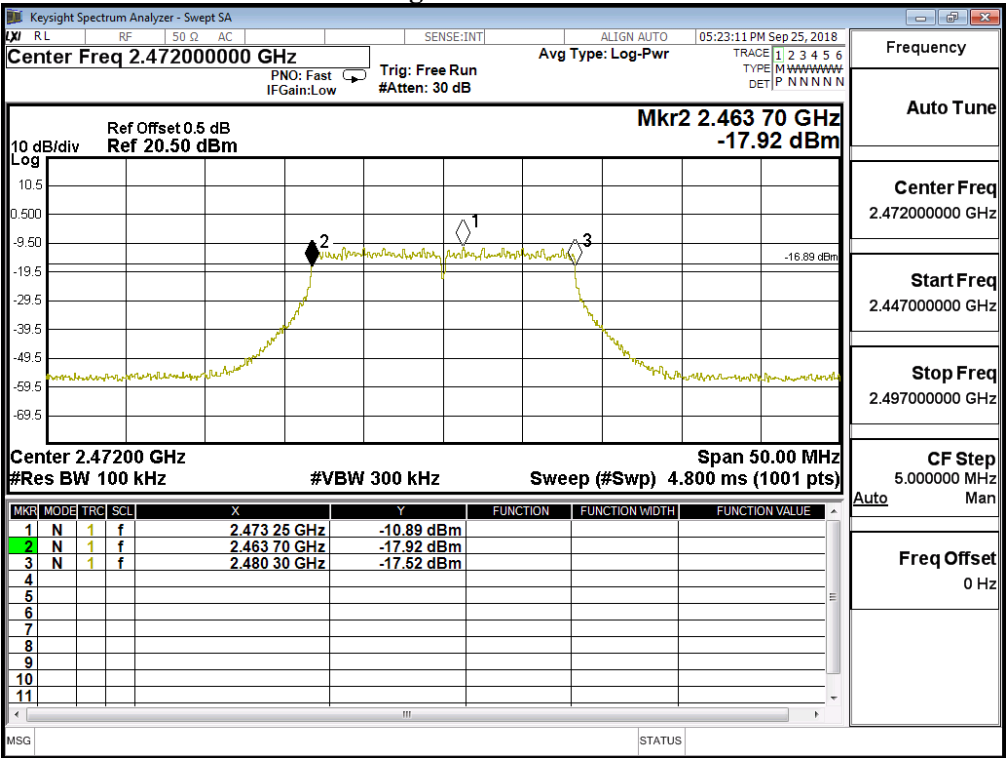


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 2: SISO B: 發射器 802.11n (20MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	17800	>500	Pass
07	2442	17800	>500	Pass
11	2462	17800	>500	Pass
12	2467	17900	>500	Pass
13	2472	17800	>500	Pass

Figure Channel 01:

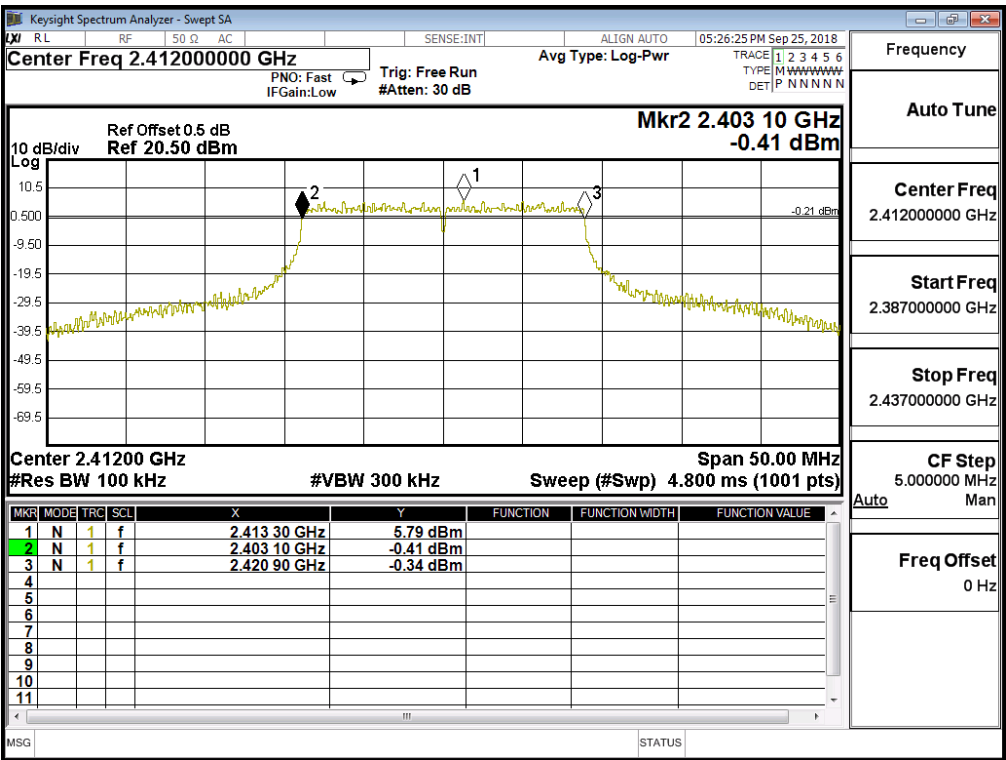


Figure Channel 07:

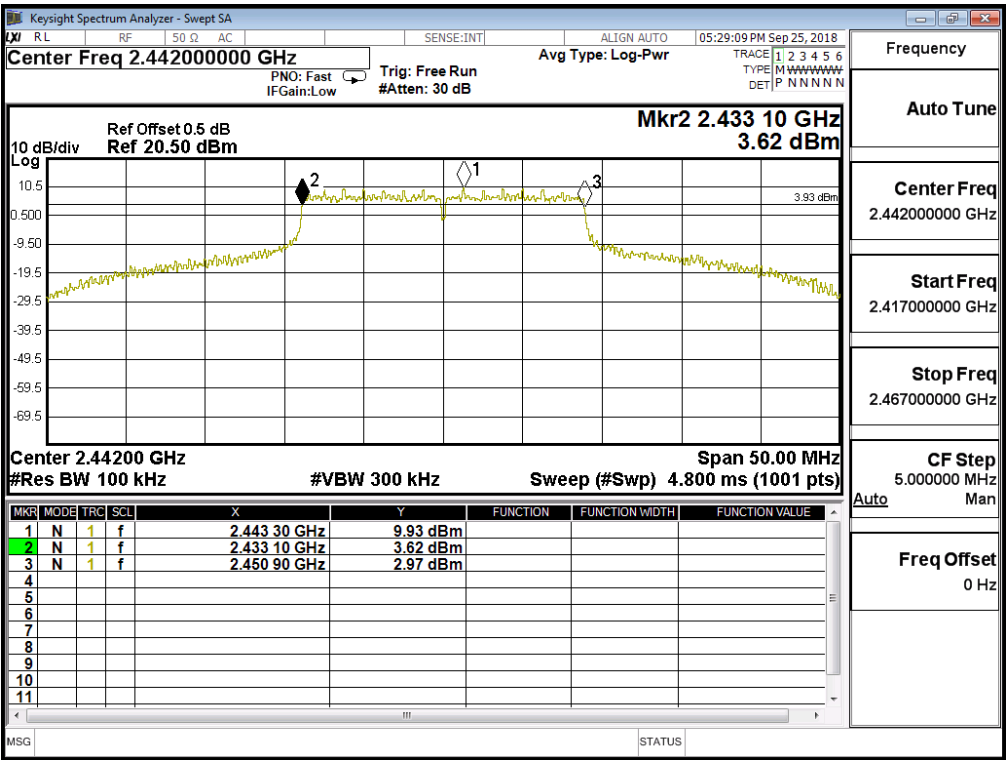


Figure Channel 11:

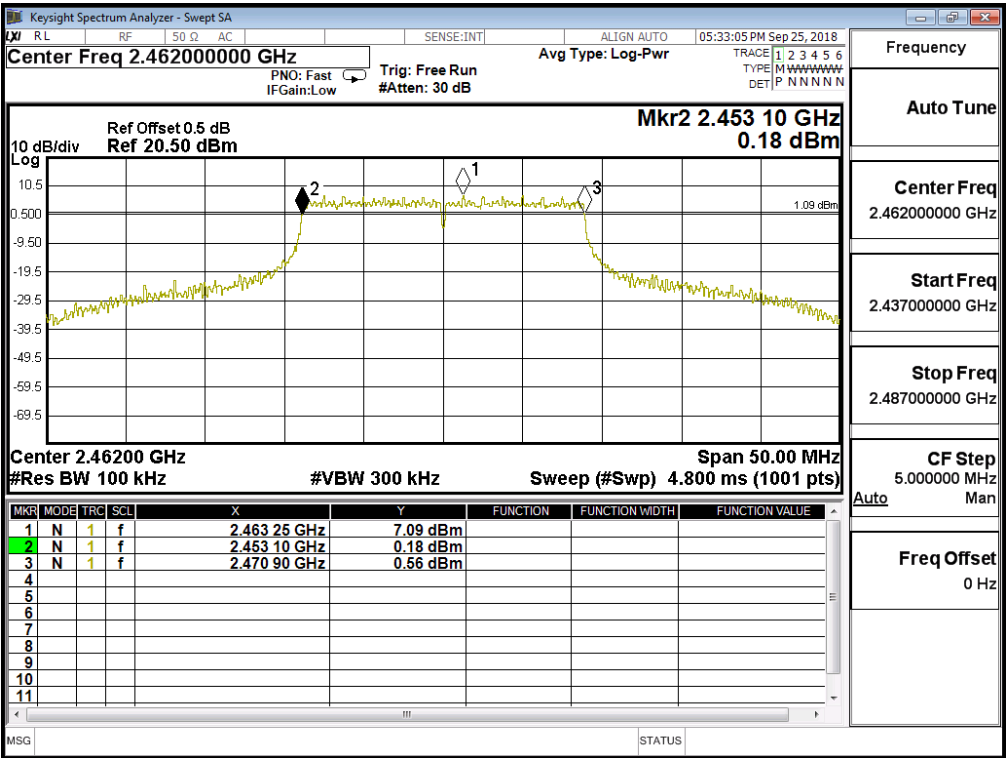


Figure Channel 12:

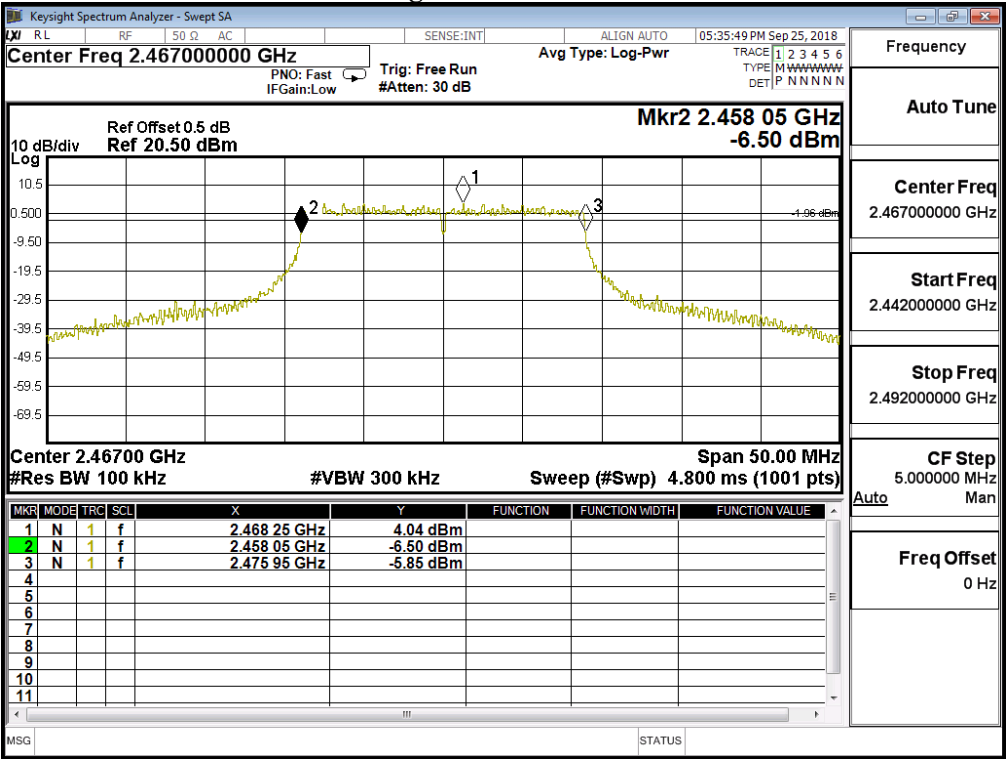
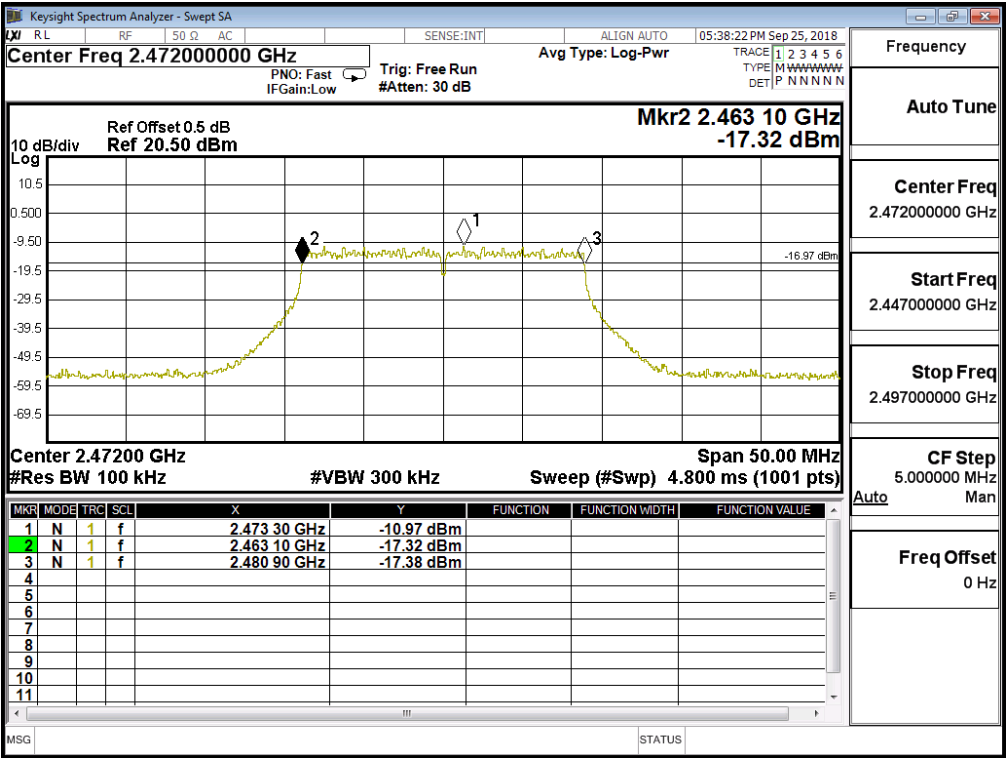


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 2: SISO B: 發射器 802.11n (40MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	36700	>500	Pass
07	2442	36600	>500	Pass
09	2452	36600	>500	Pass
10	2457	36600	>500	Pass
11	2462	36700	>500	Pass

Figure Channel 03:

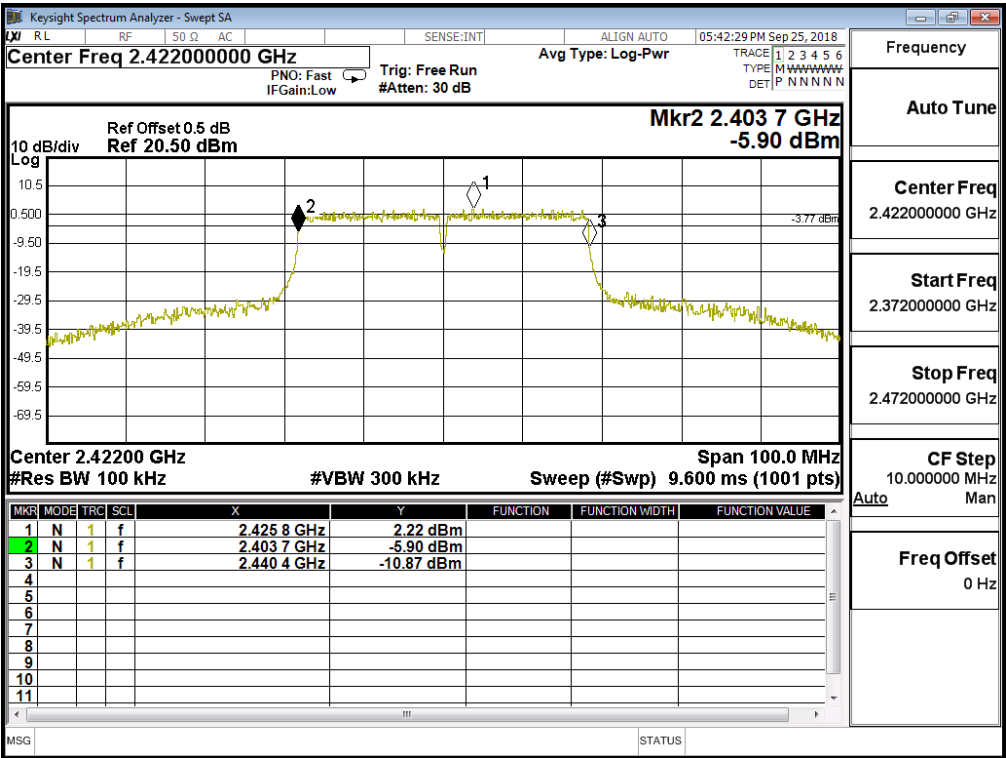


Figure Channel 07:

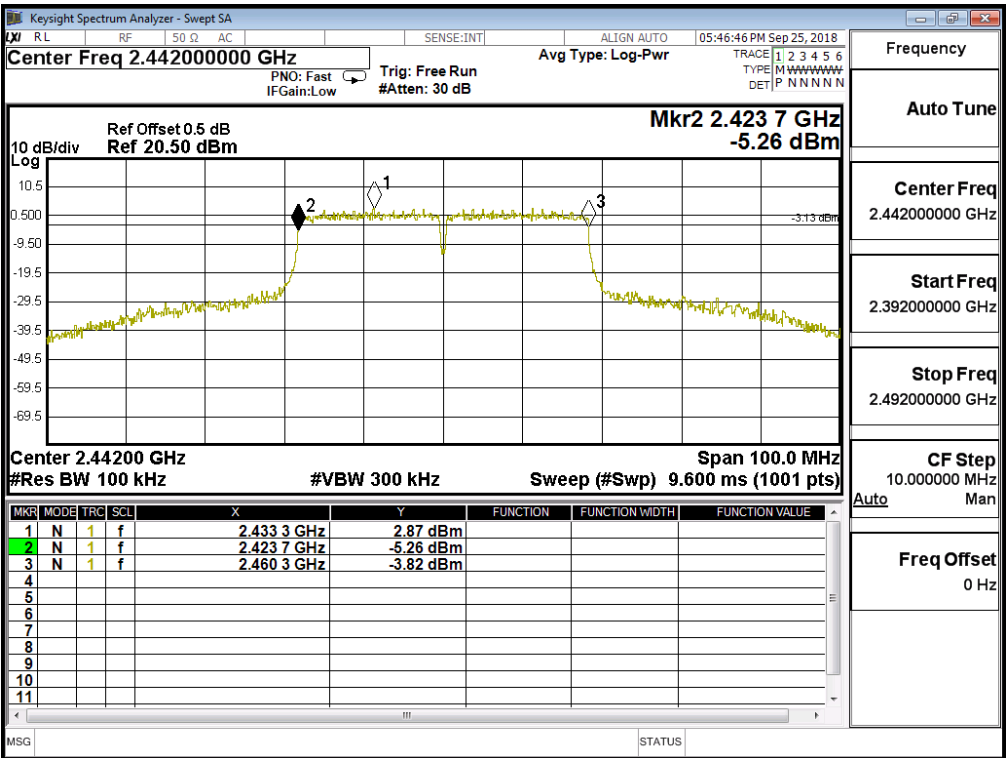


Figure Channel 09:

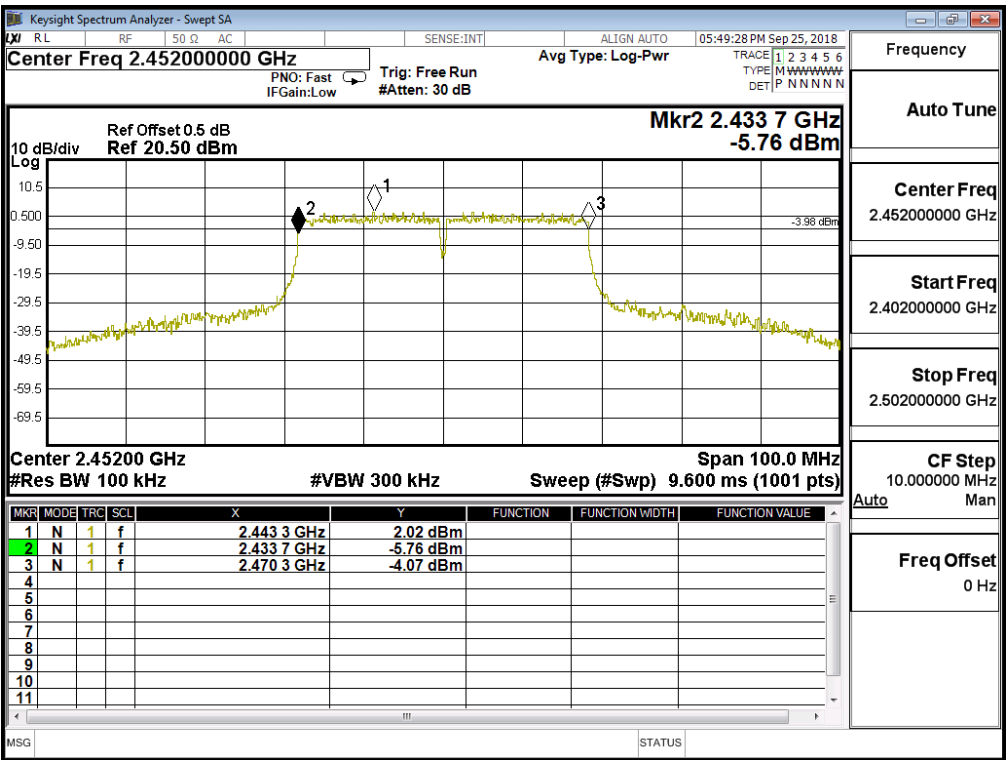


Figure Channel 10:

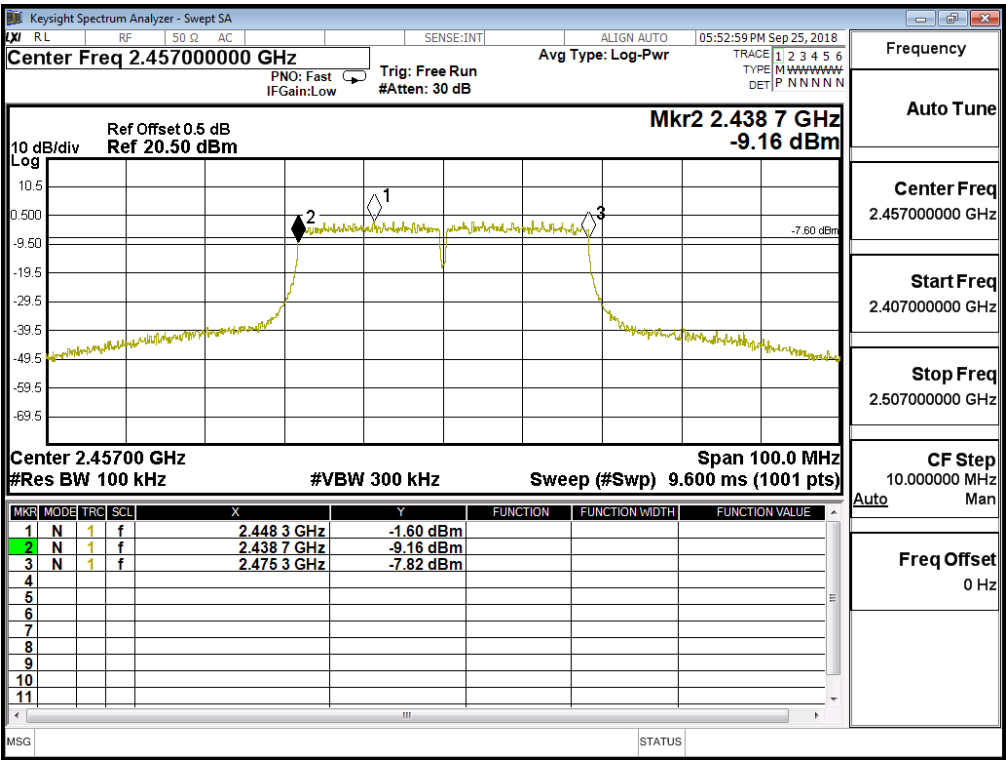
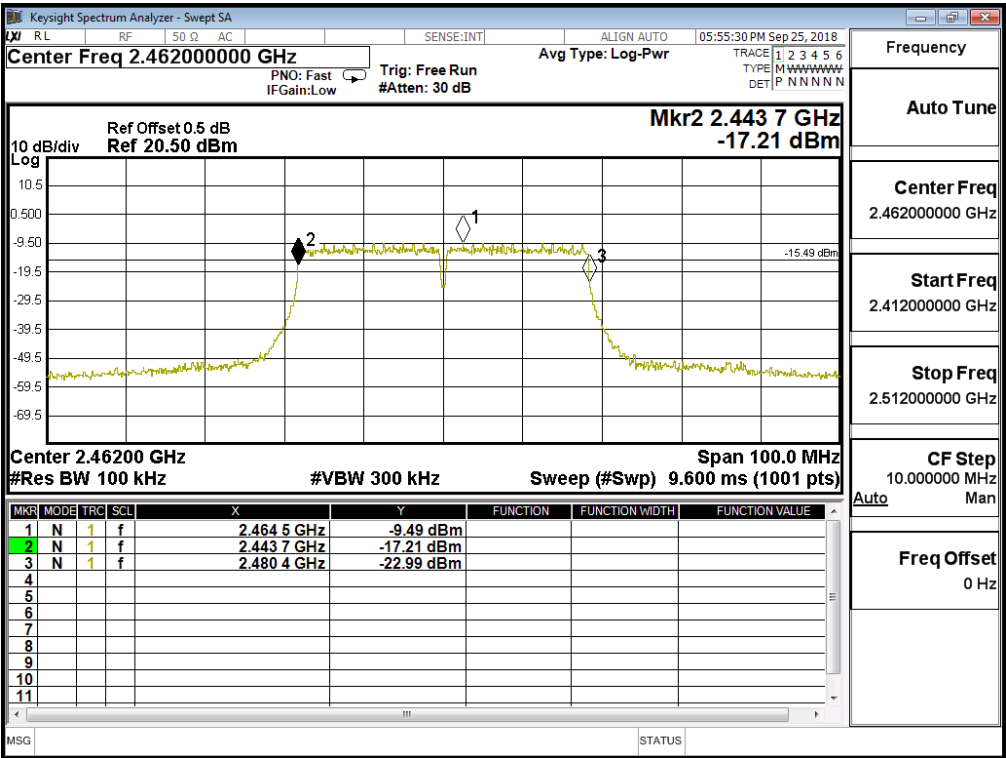


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 3: MIMO: 發射器 802.11n (20MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	A	17800	>500	Pass
07	2442	A	17800	>500	Pass
11	2462	A	17850	>500	Pass
12	2467	A	17850	>500	Pass
13	2472	A	17850	>500	Pass
01	2412	B	17850	>500	Pass
07	2442	B	17800	>500	Pass
11	2462	B	17850	>500	Pass
12	2467	B	17850	>500	Pass
13	2472	B	17850	>500	Pass

Figure Channel 01: (Chain A)

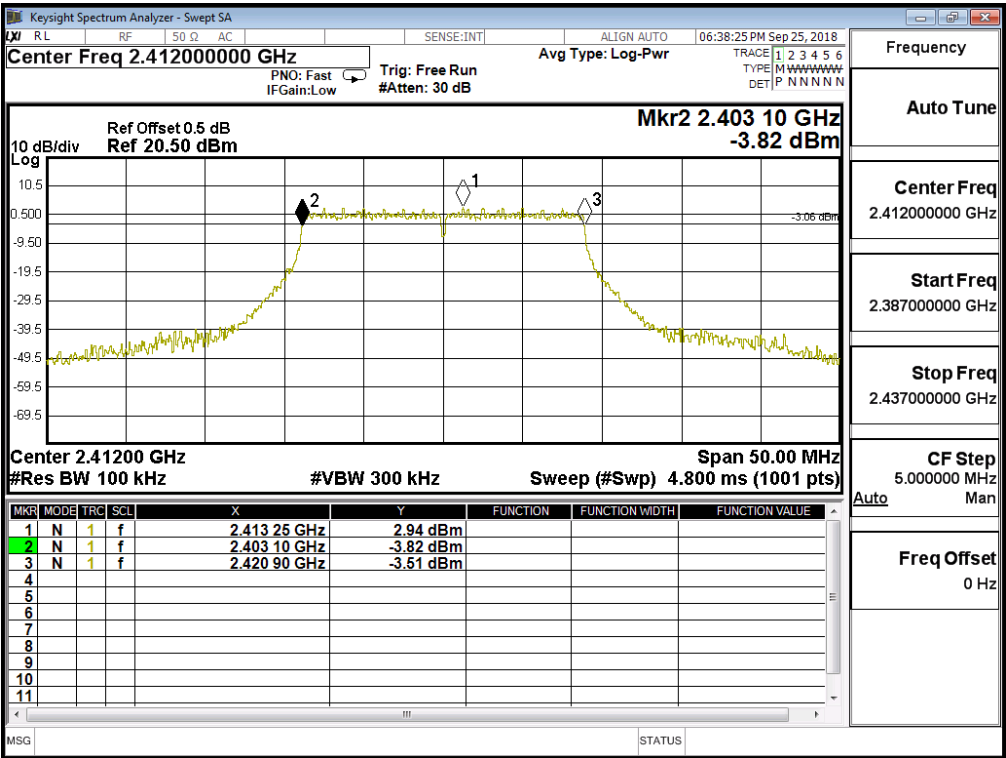


Figure Channel 01: (Chain B)

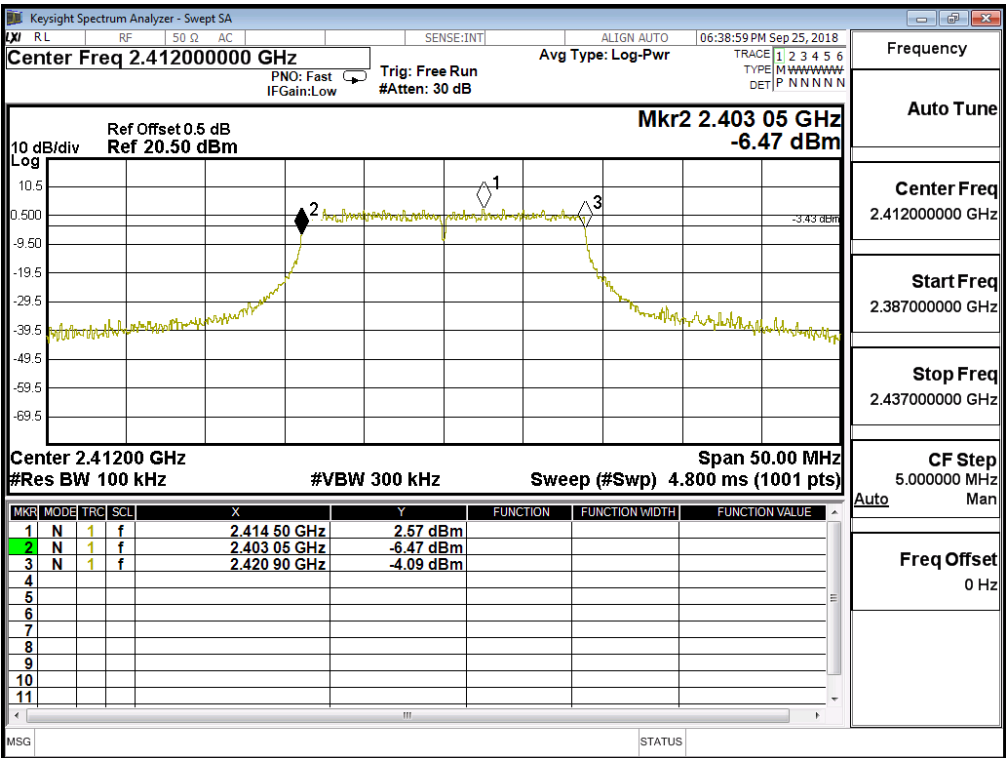


Figure Channel 07: (Chain A)

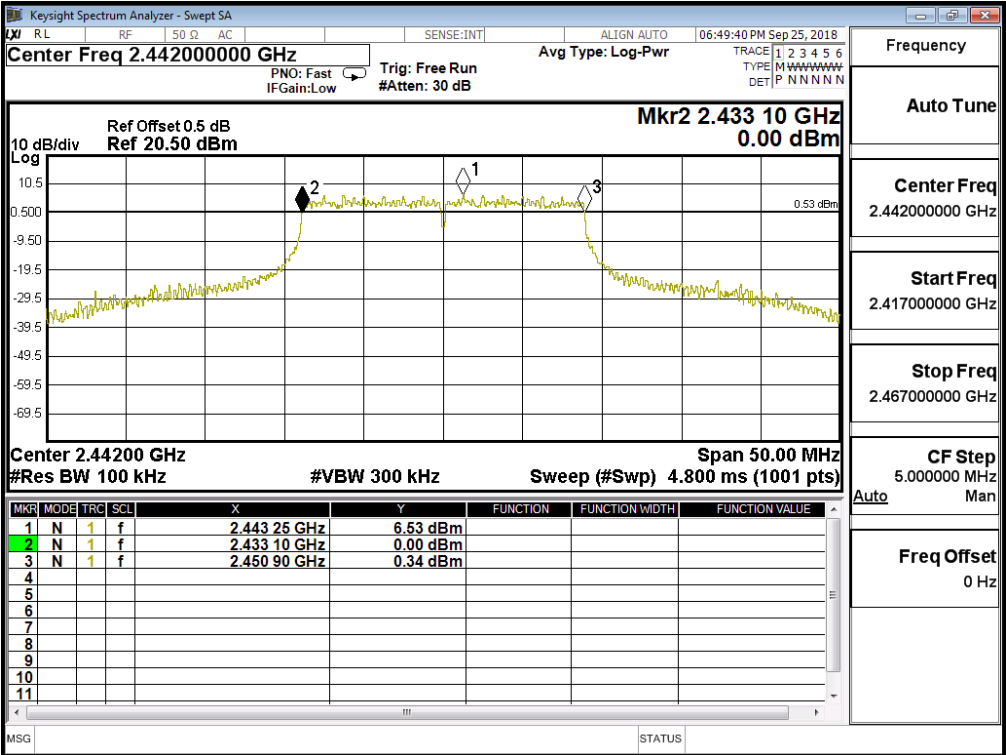


Figure Channel 07: (Chain B)

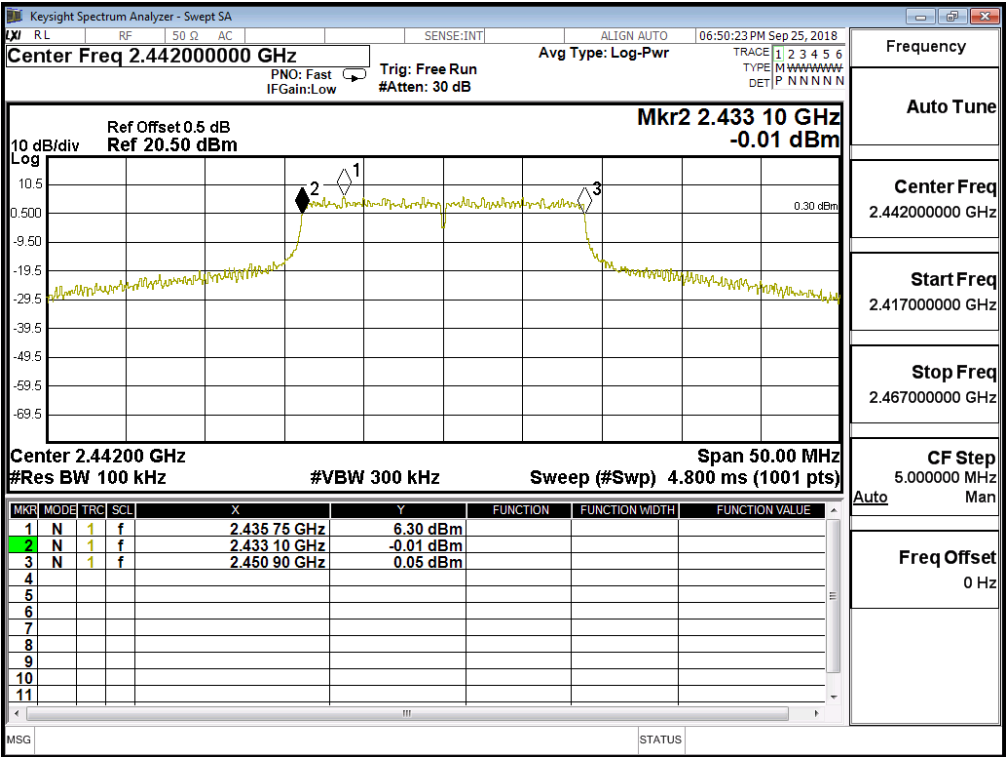


Figure Channel 11: (Chain A)

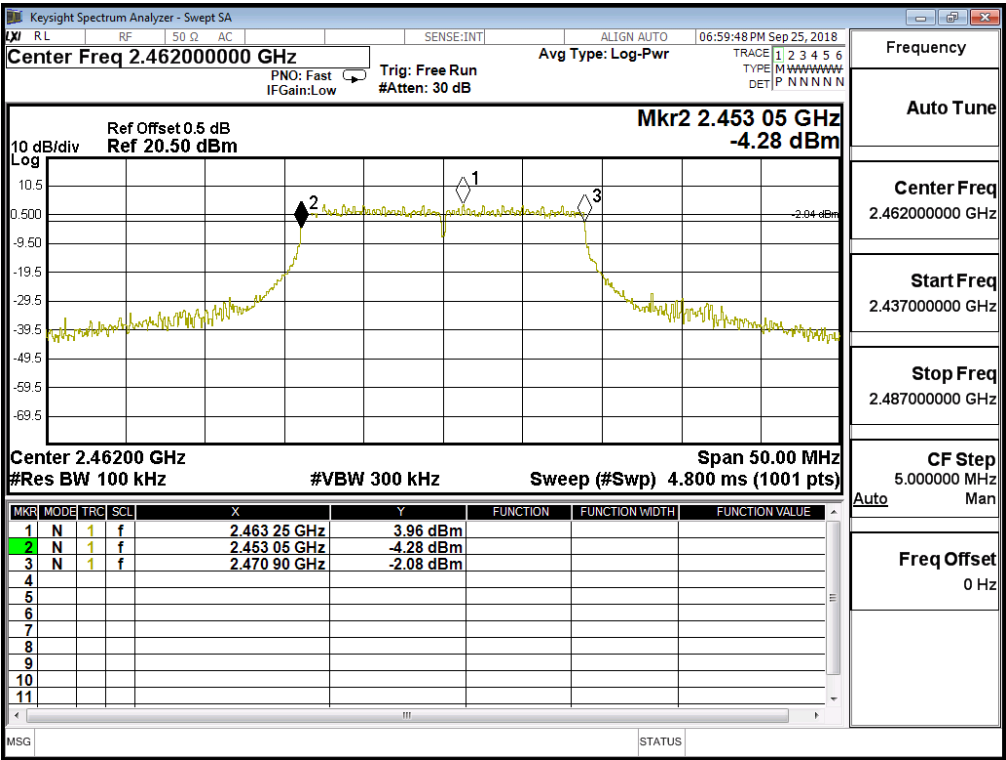


Figure Channel 11: (Chain B)

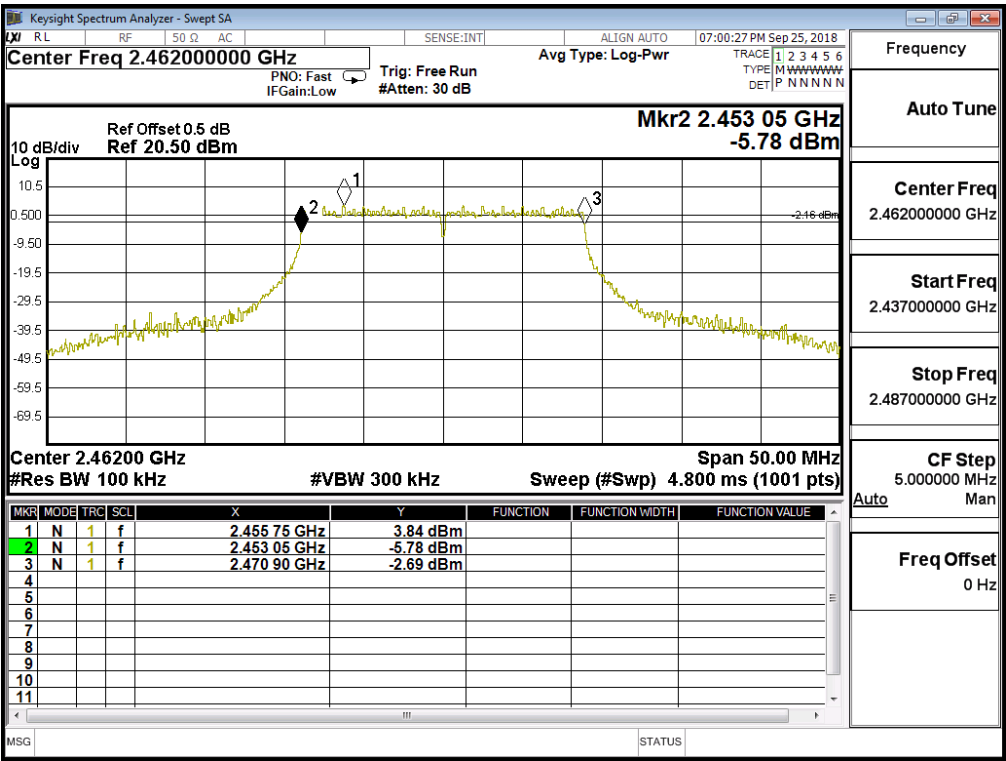


Figure Channel 12: (Chain A)

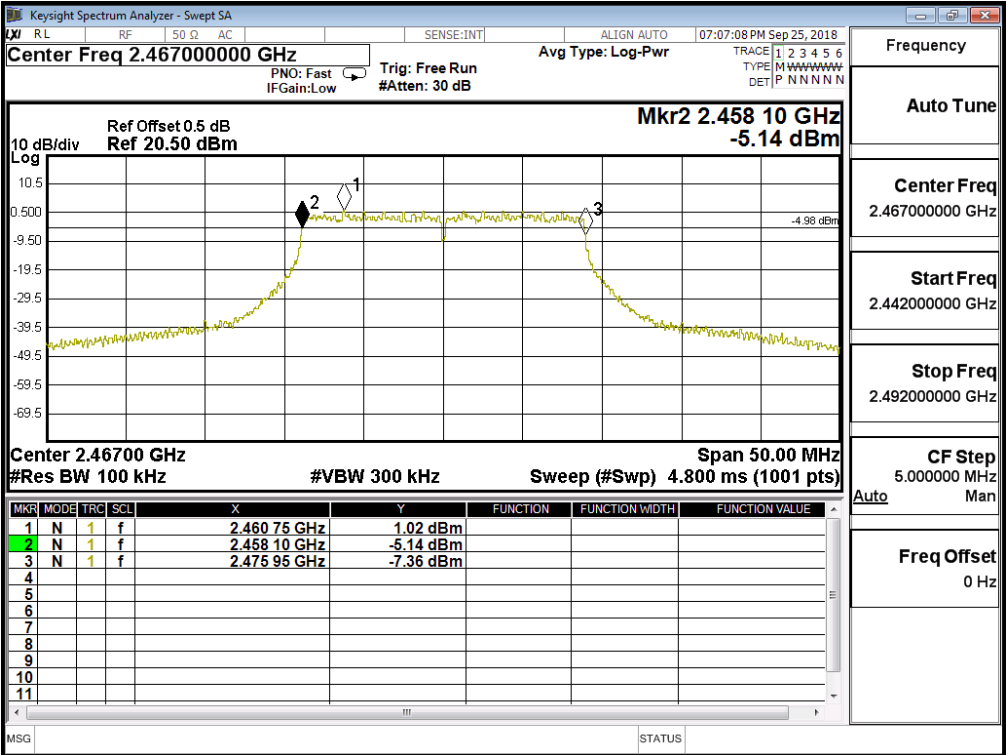


Figure Channel 12: (Chain B)

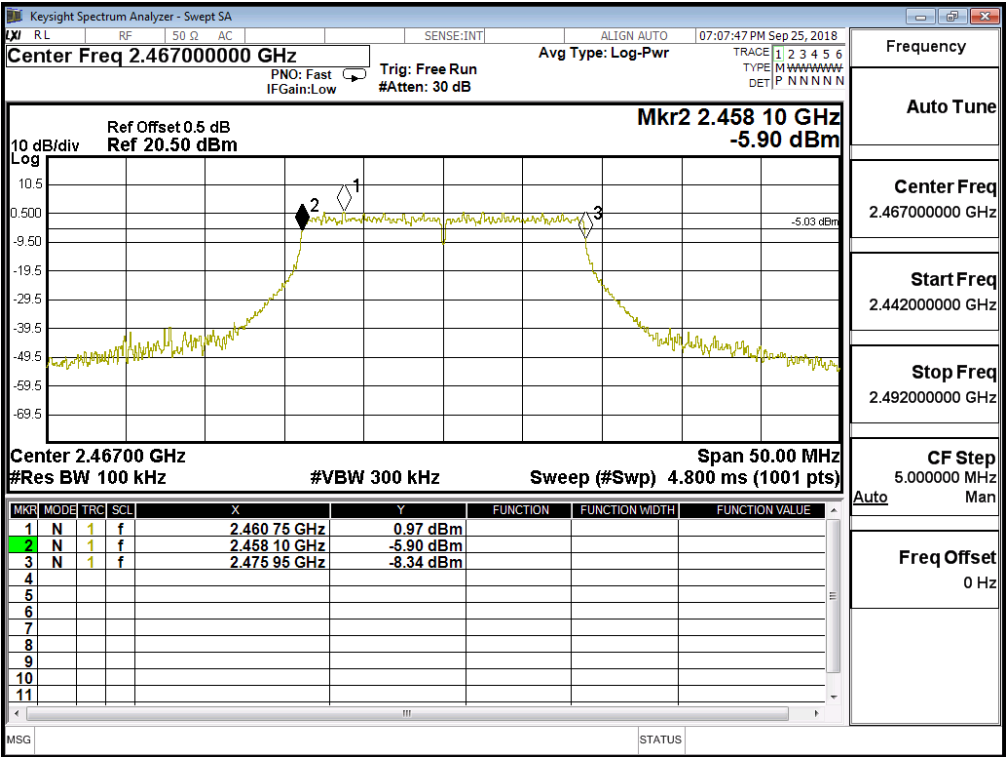


Figure Channel 13: (Chain A)

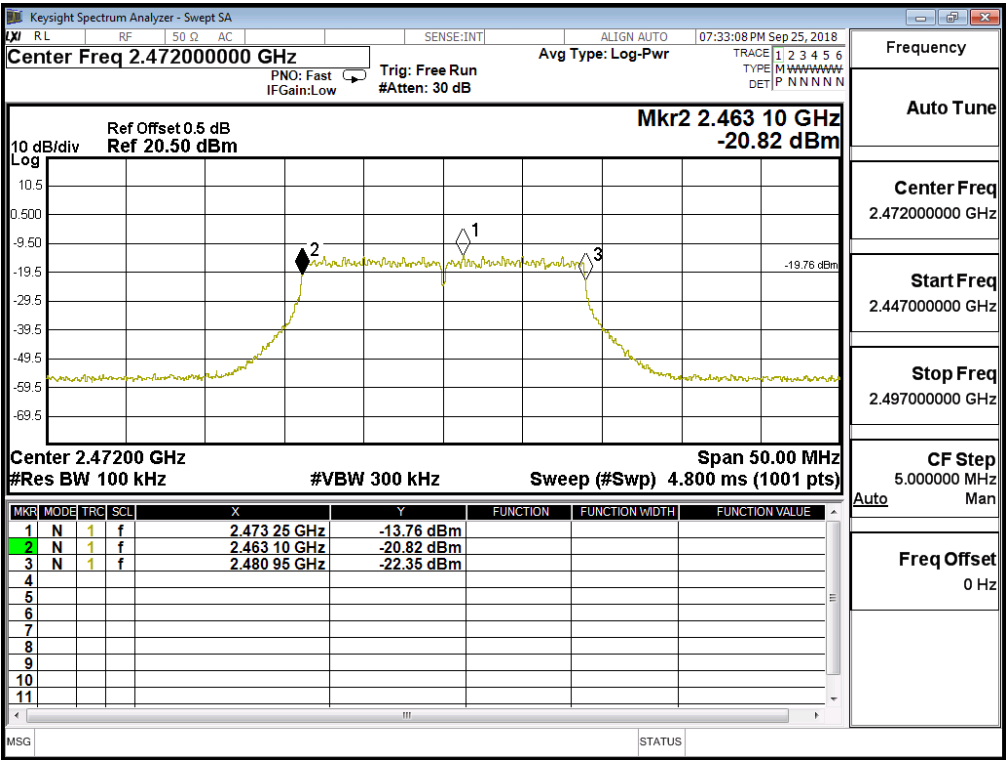
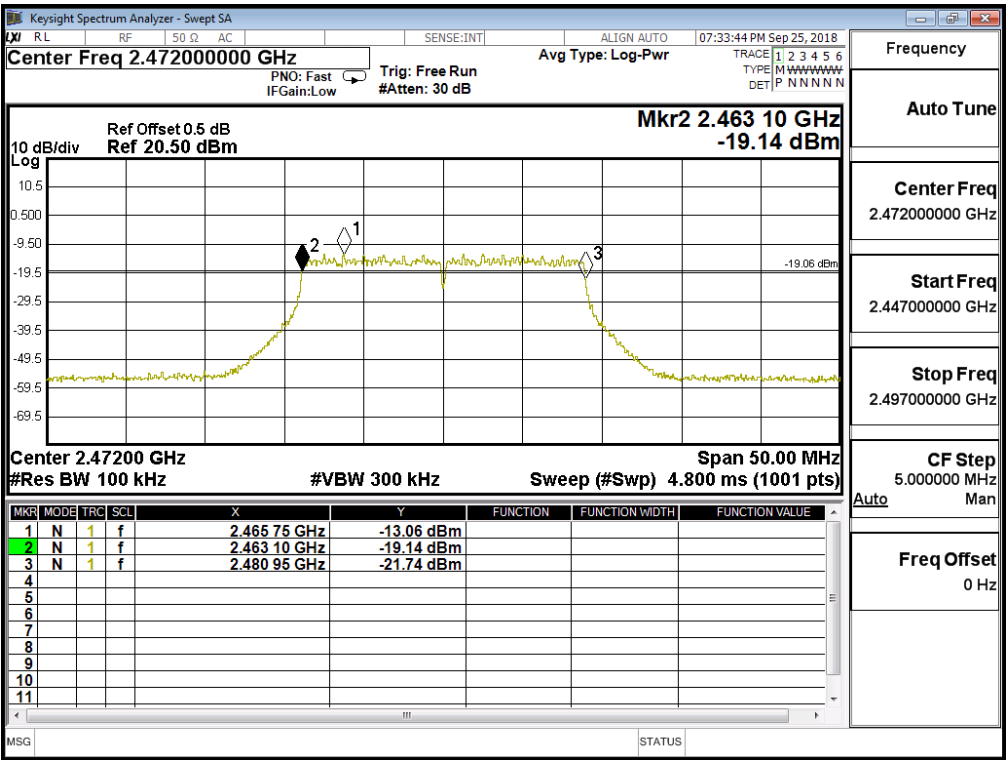


Figure Channel 13: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 3: MIMO: 發射器 802.11n (40MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	A	36600	>500	Pass
07	2442	A	35900	>500	Pass
09	2452	A	36000	>500	Pass
10	2457	A	36700	>500	Pass
11	2462	A	36600	>500	Pass
03	2422	B	36600	>500	Pass
07	2442	B	36600	>500	Pass
09	2452	B	36600	>500	Pass
10	2457	B	36700	>500	Pass
11	2462	B	36600	>500	Pass

Figure Channel 03: (Chain A)

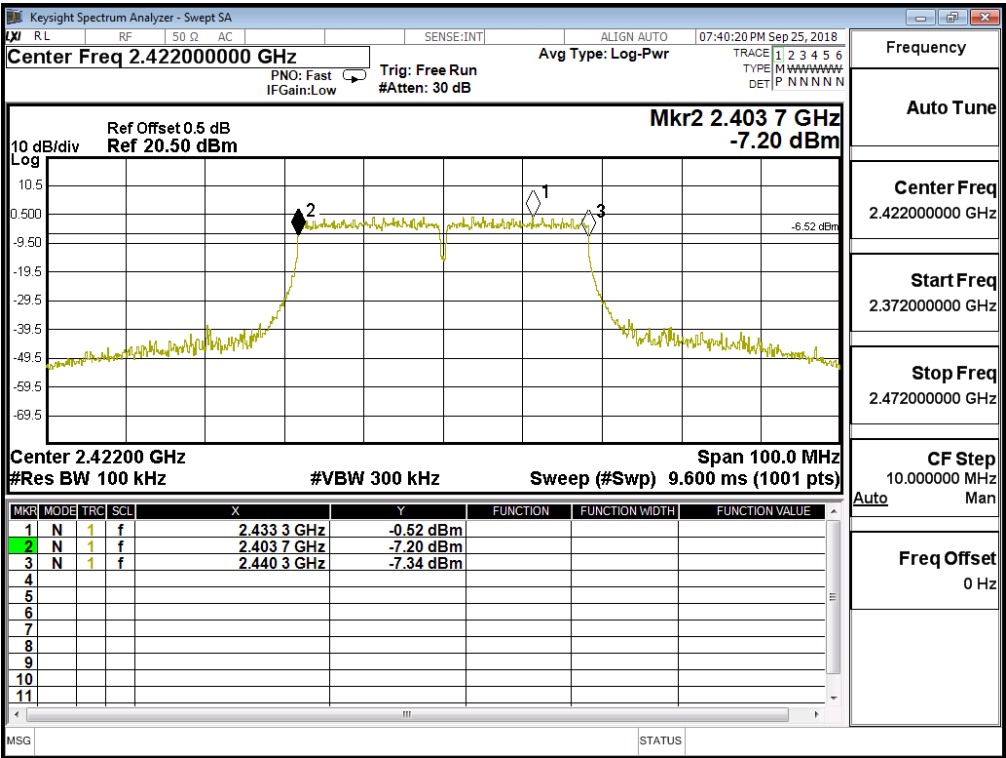


Figure Channel 03: (Chain B)

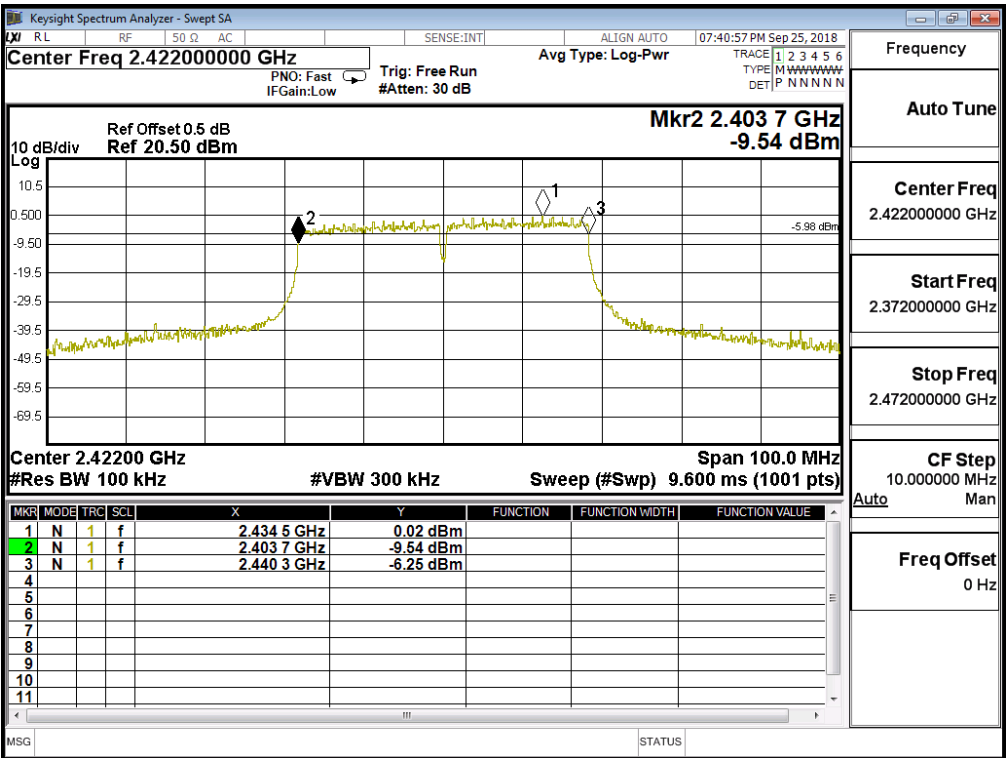


Figure Channel 07: (Chain A)

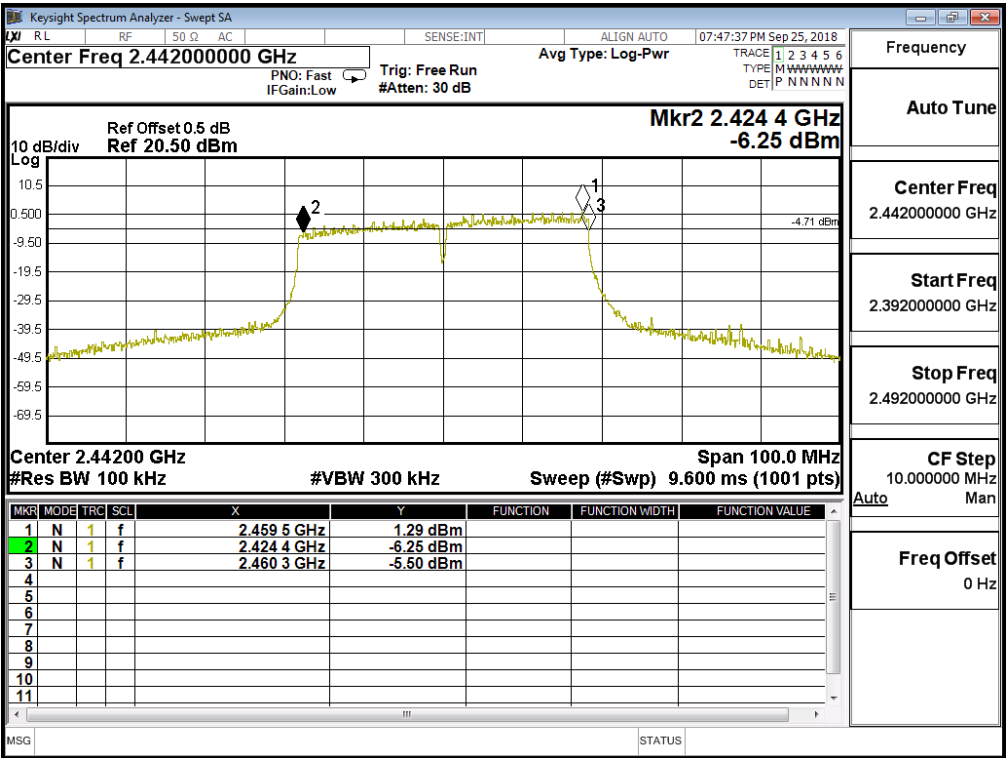


Figure Channel 07: (Chain B)

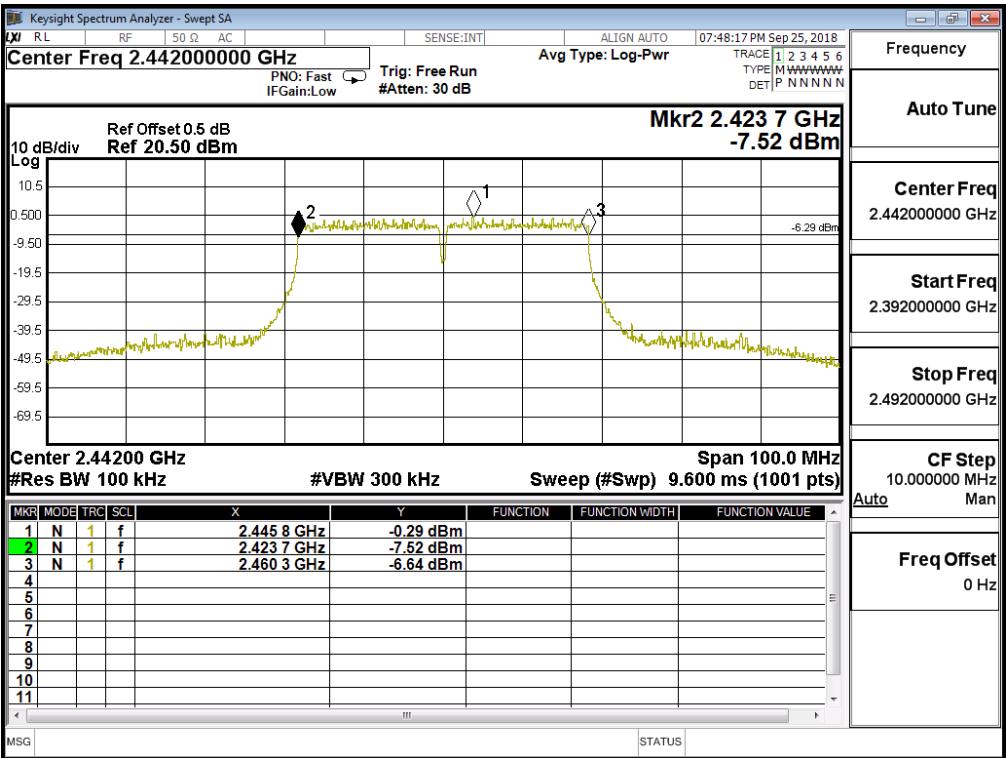


Figure Channel 09: (Chain A)

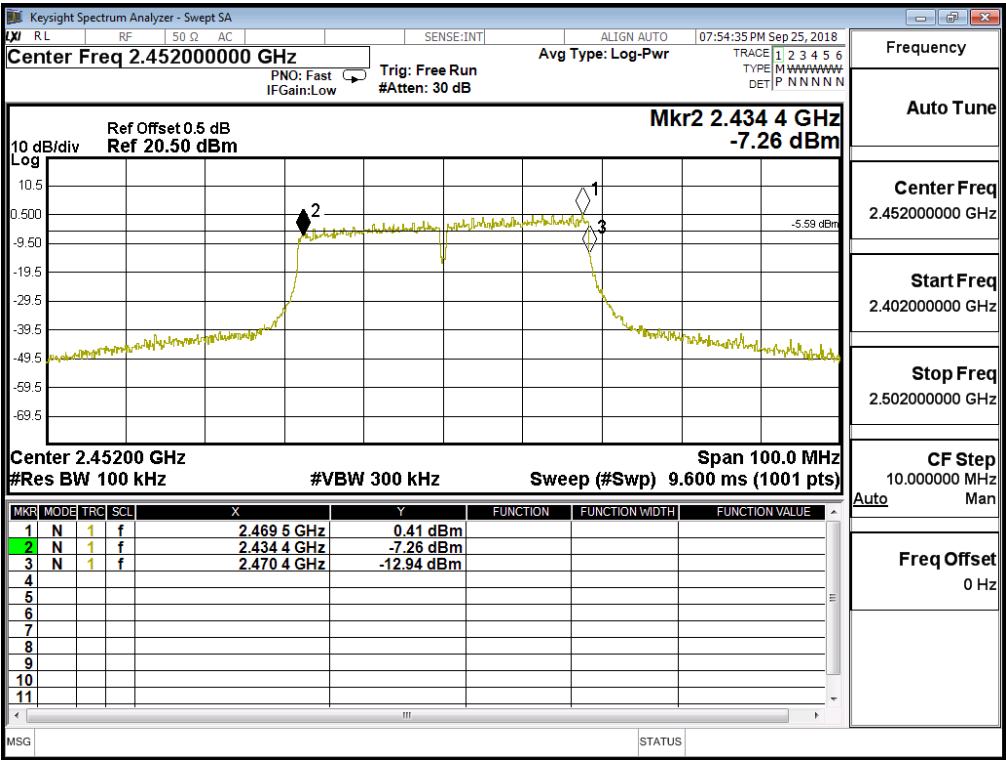


Figure Channel 09: (Chain B)

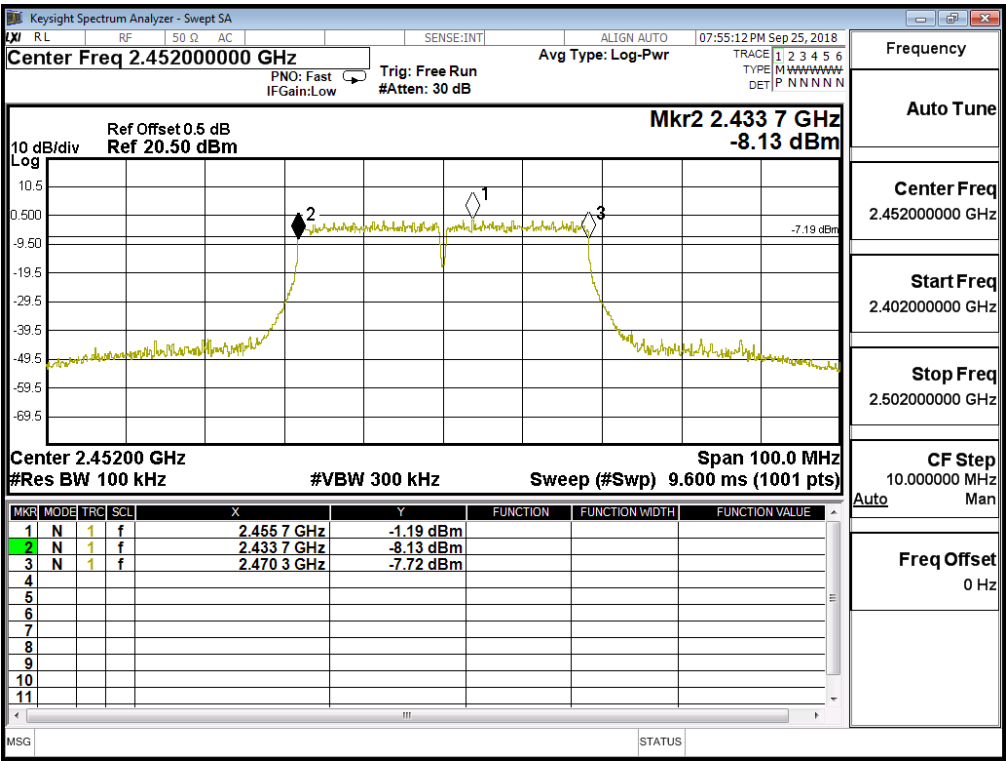


Figure Channel 10: (Chain A)

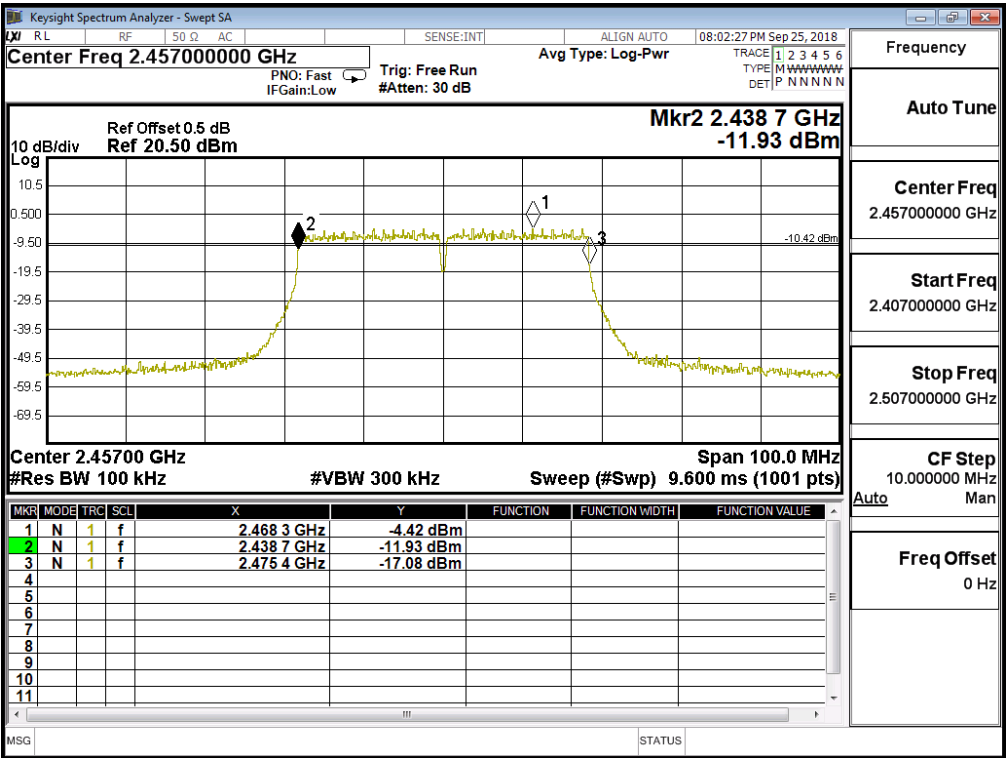


Figure Channel 10: (Chain B)

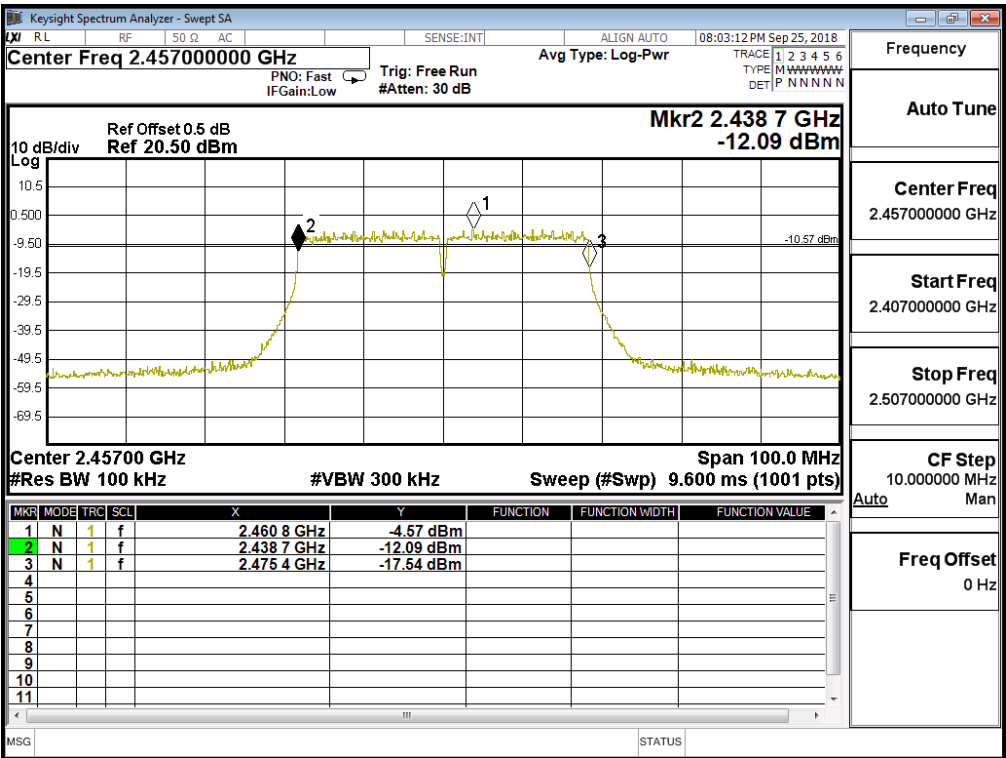


Figure Channel 11: (Chain A)

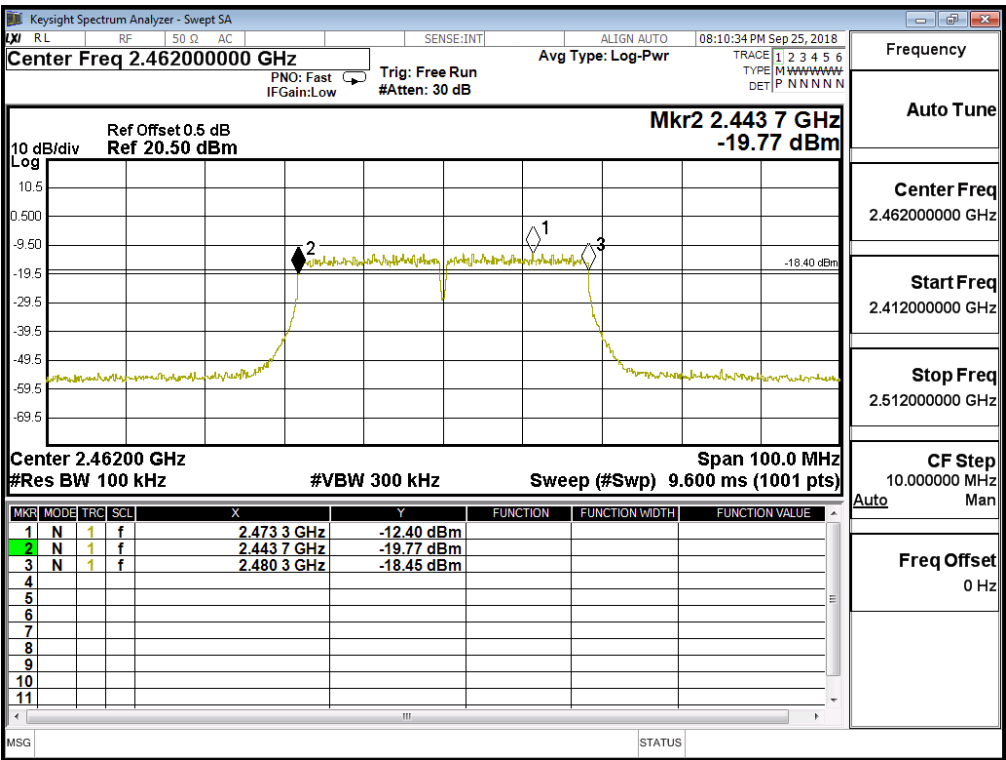
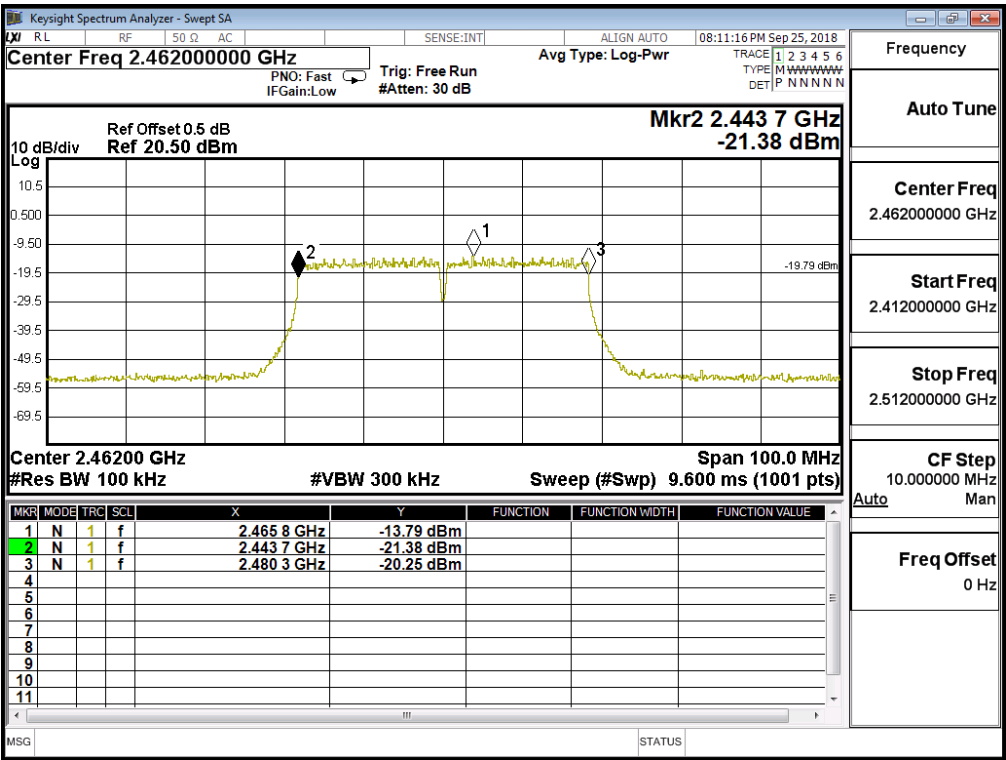


Figure Channel 11: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 1: SISO A: 發射器 802.11ax (20MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	19200	>500	Pass
07	2442	19150	>500	Pass
11	2462	19100	>500	Pass
12	2467	19150	>500	Pass
13	2472	19150	>500	Pass

Figure Channel 01:

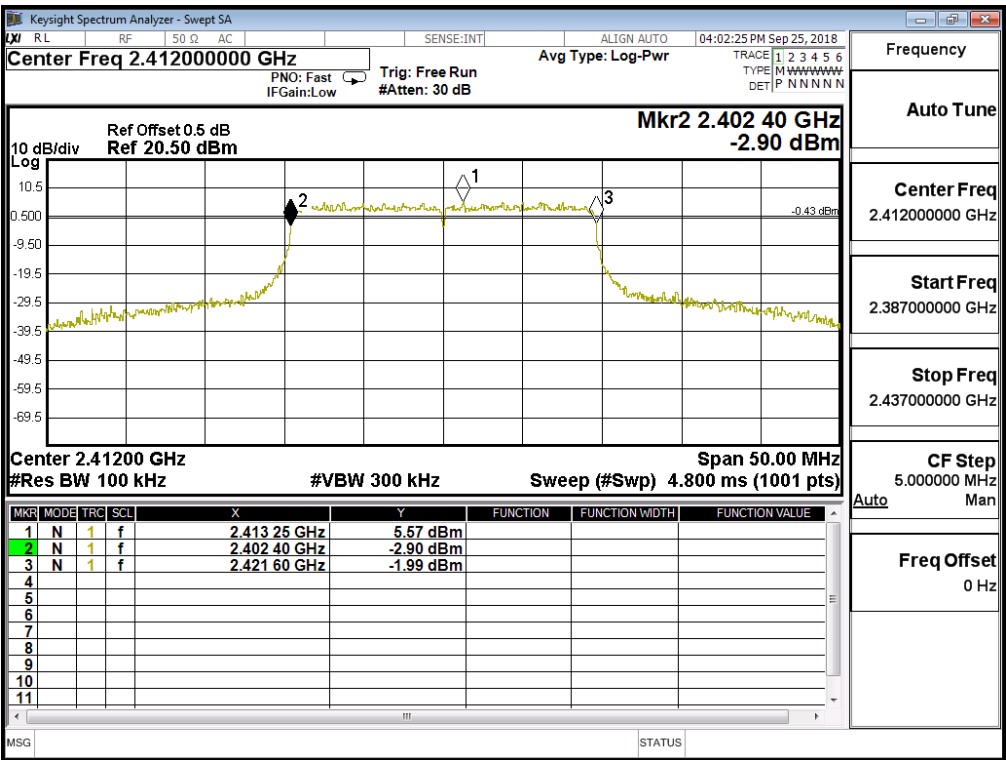


Figure Channel 07:

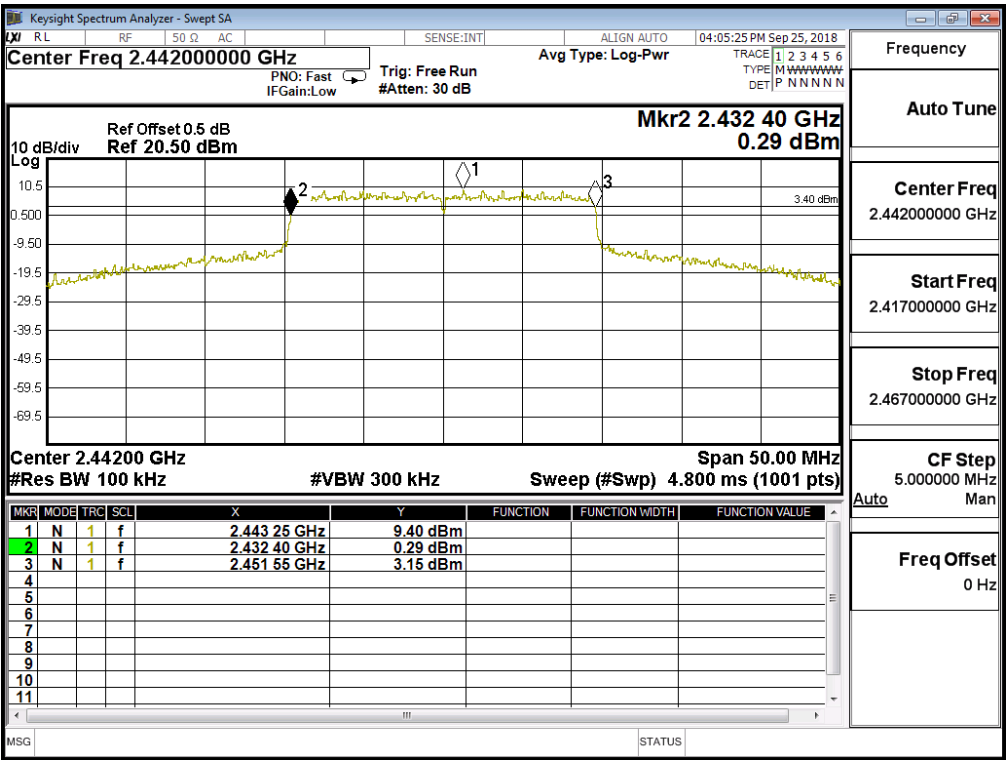


Figure Channel 11:

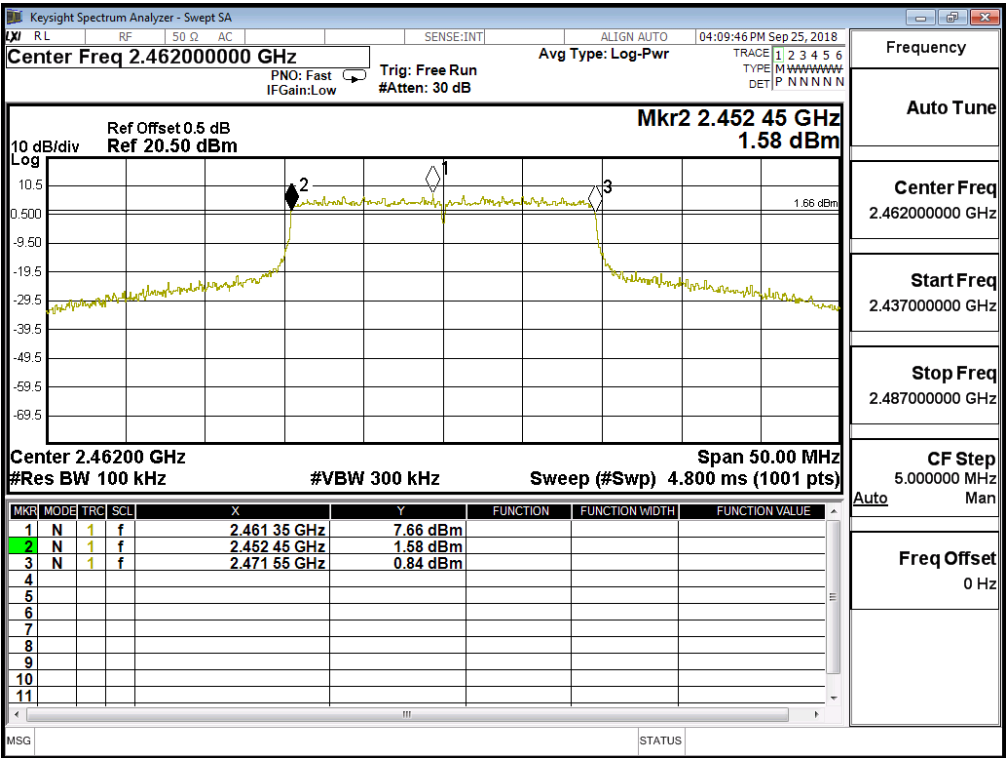


Figure Channel 12:

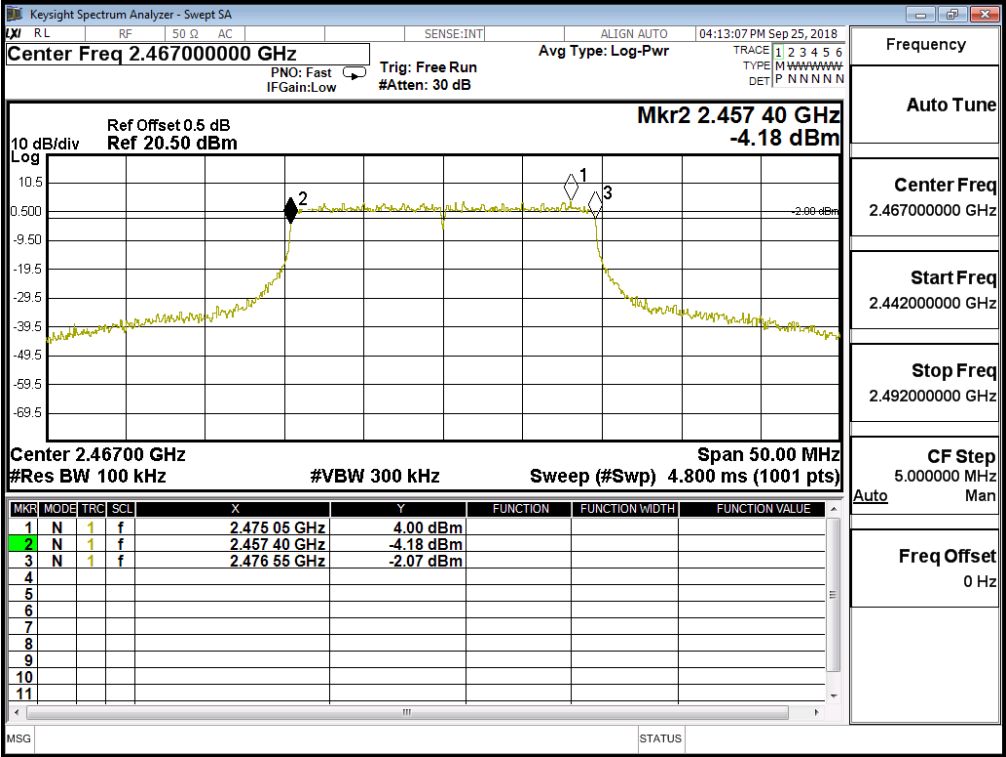
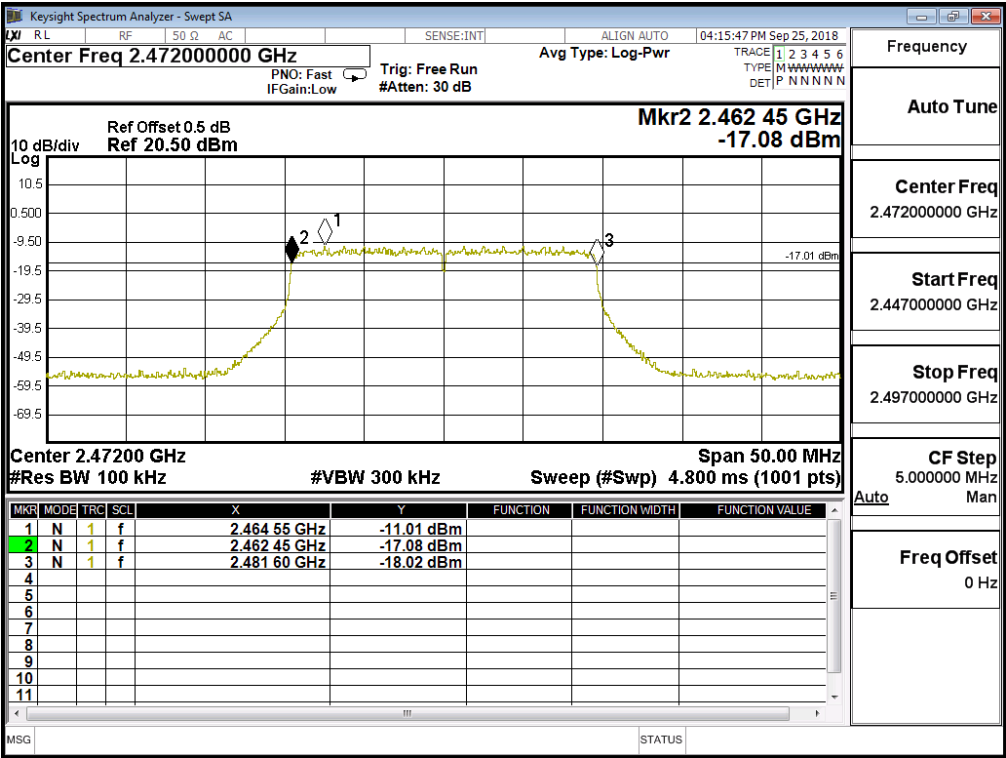


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 1: SISO A: 發射器 802.11ax (40MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	38200	>500	Pass
07	2442	38200	>500	Pass
09	2452	38200	>500	Pass
10	2457	38300	>500	Pass
11	2462	38300	>500	Pass

Figure Channel 03:

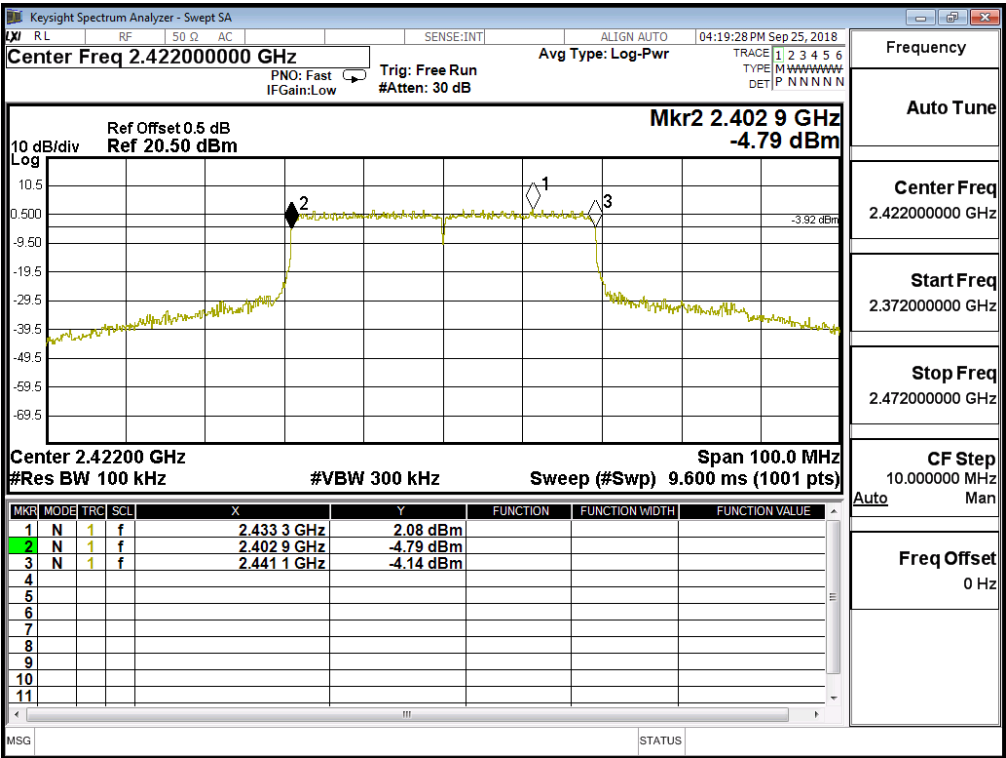


Figure Channel 07:

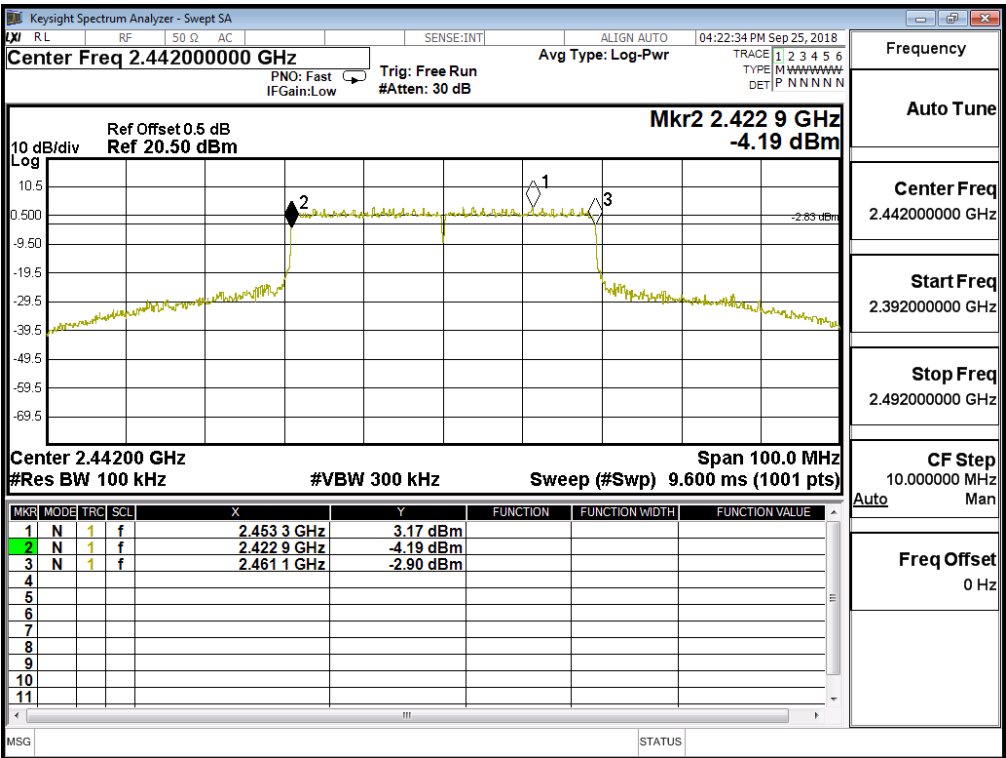


Figure Channel 09:

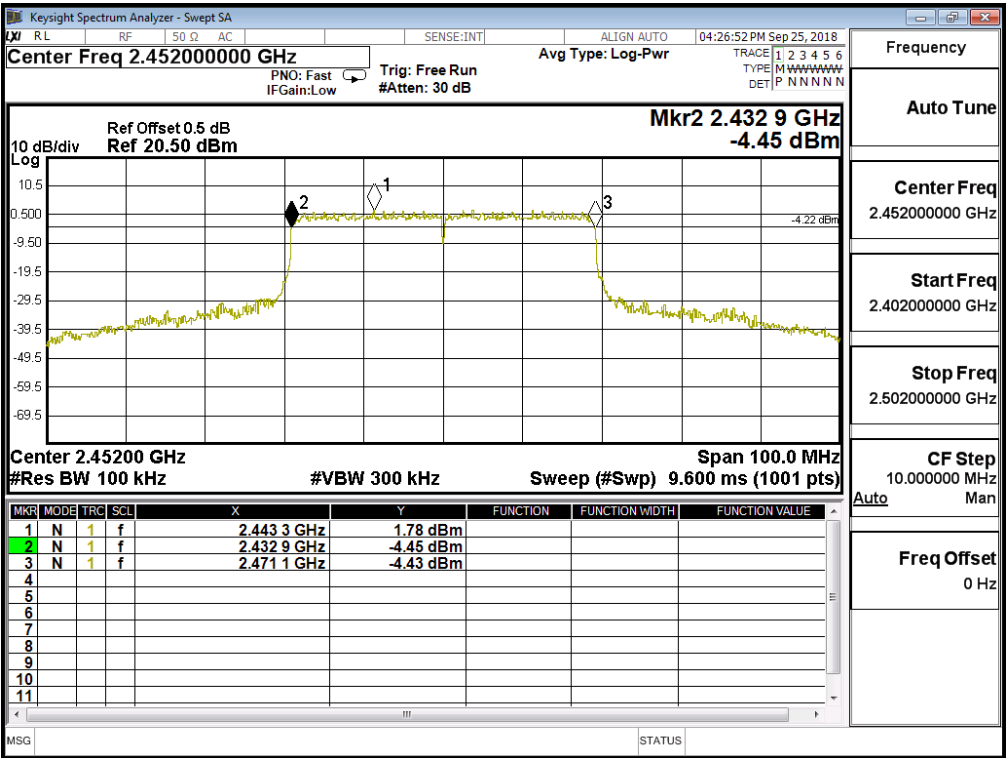


Figure Channel 10:

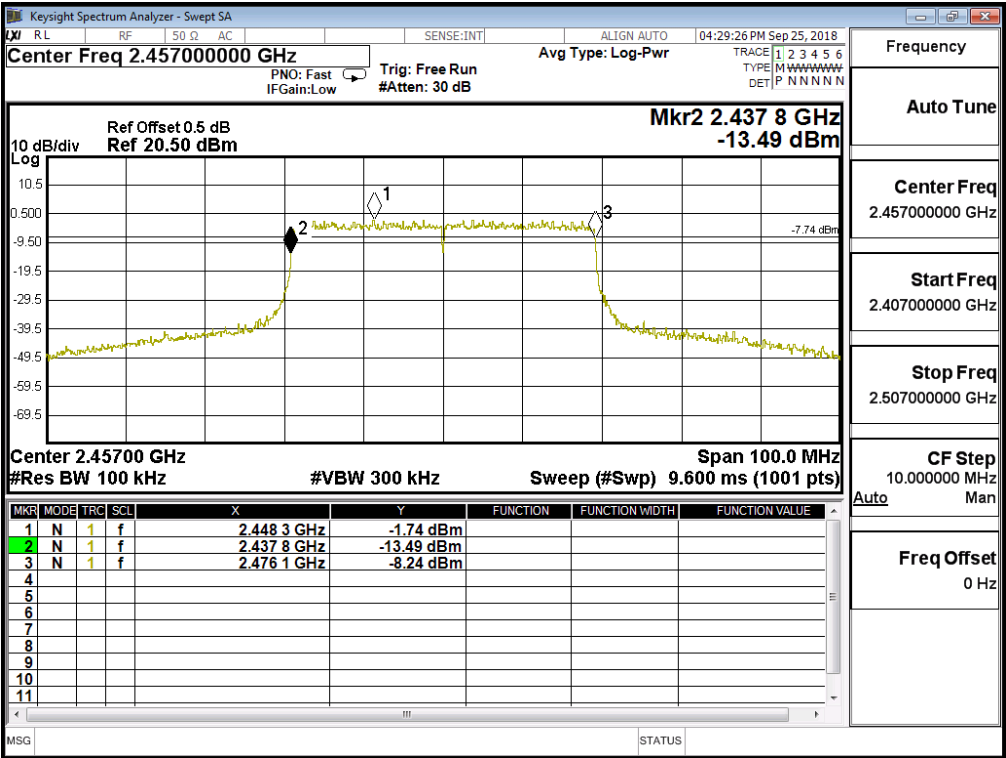
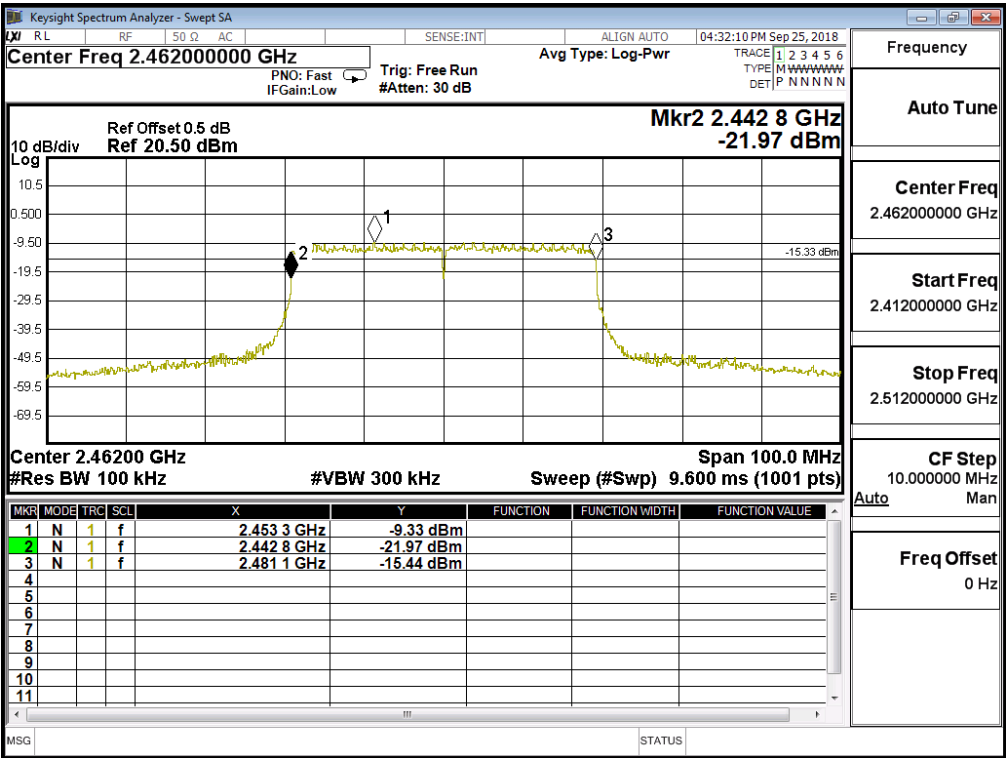


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 2: SISO B: 發射器 802.11ax (20MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	19200	>500	Pass
07	2442	19100	>500	Pass
11	2462	19100	>500	Pass
12	2467	19200	>500	Pass
13	2472	19200	>500	Pass

Figure Channel 01:

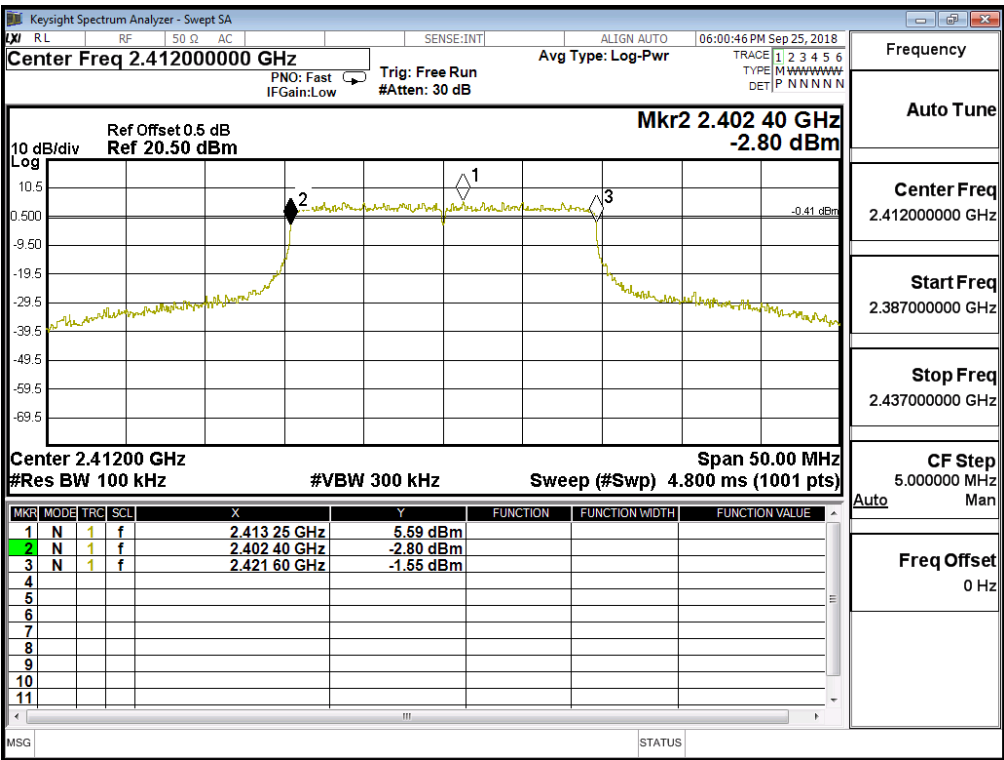


Figure Channel 07:

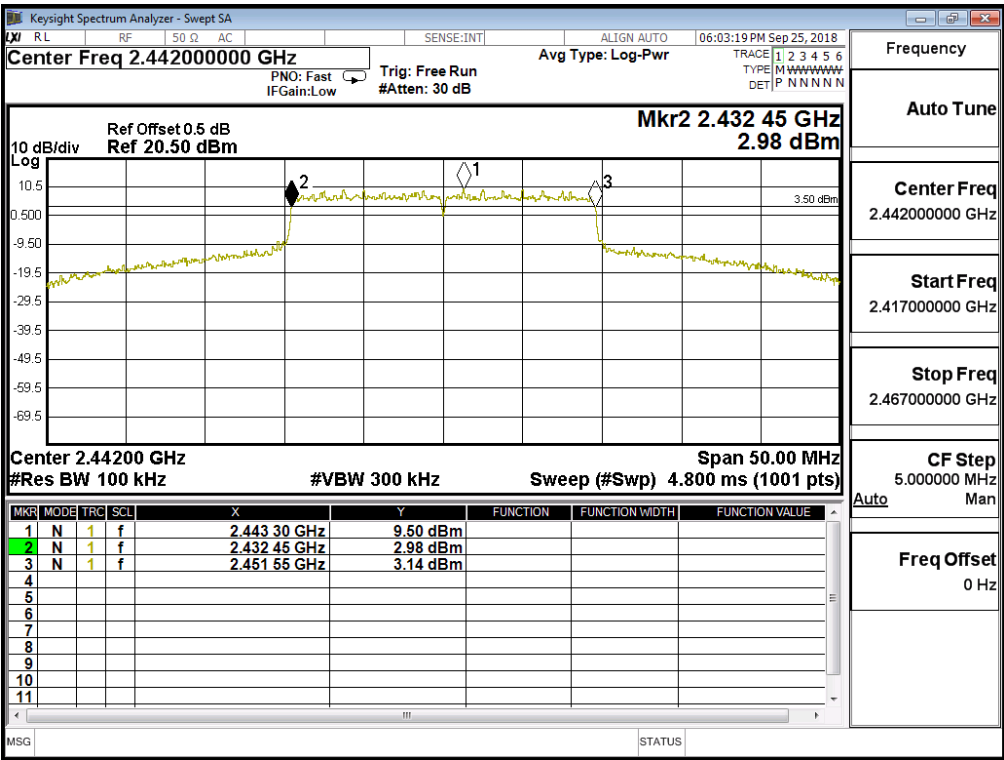


Figure Channel 11:

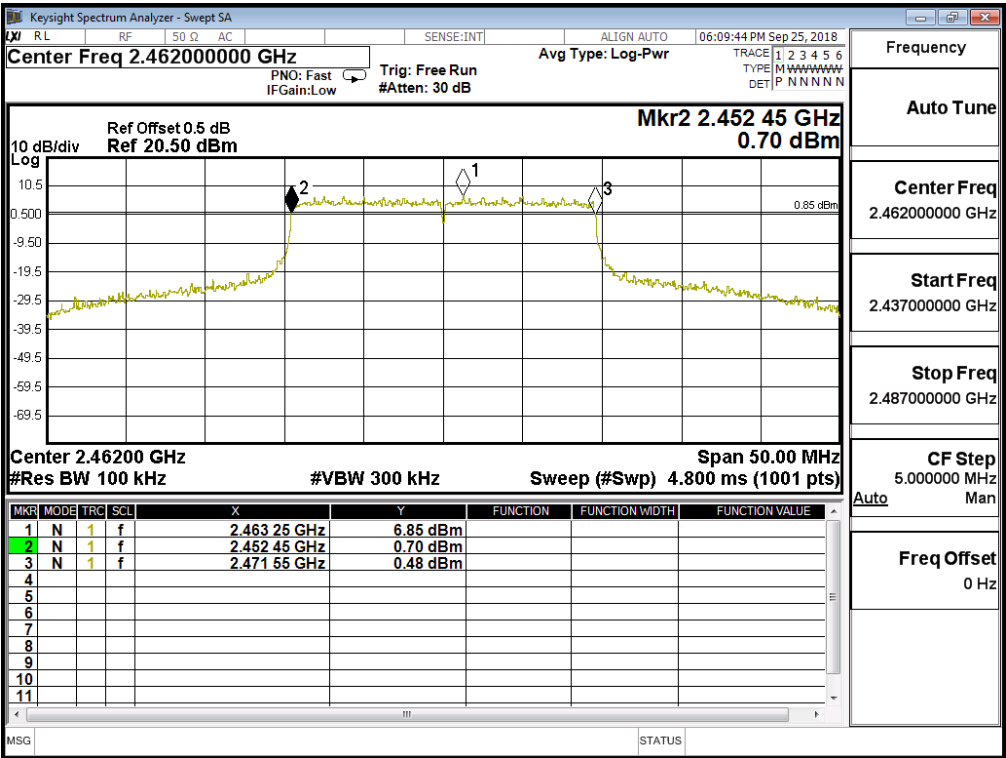


Figure Channel 12:

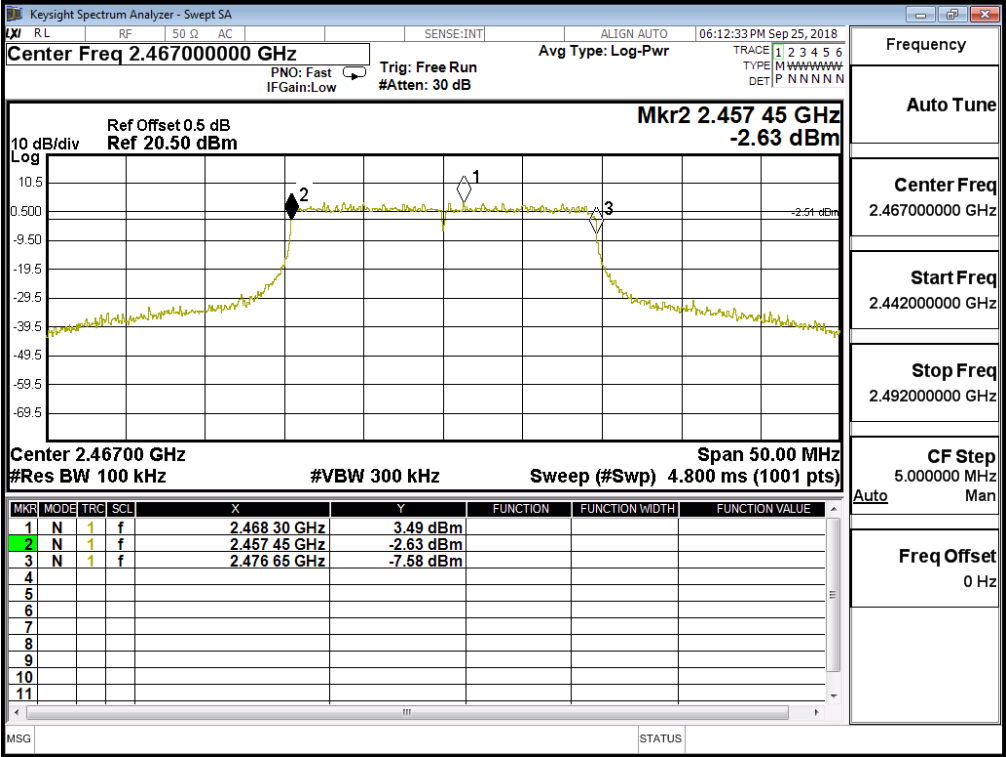
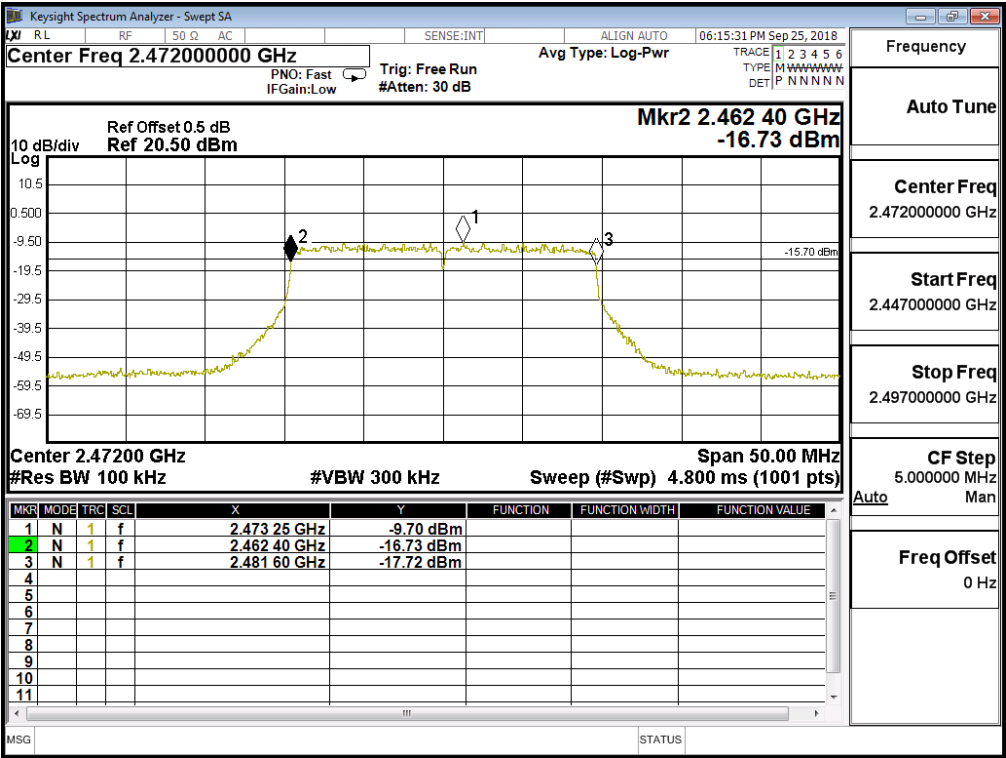


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 2: SISO B: 發射器 802.11ax (40MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	38300	>500	Pass
07	2442	38300	>500	Pass
09	2452	38400	>500	Pass
10	2457	38200	>500	Pass
11	2462	38300	>500	Pass

Figure Channel 03:

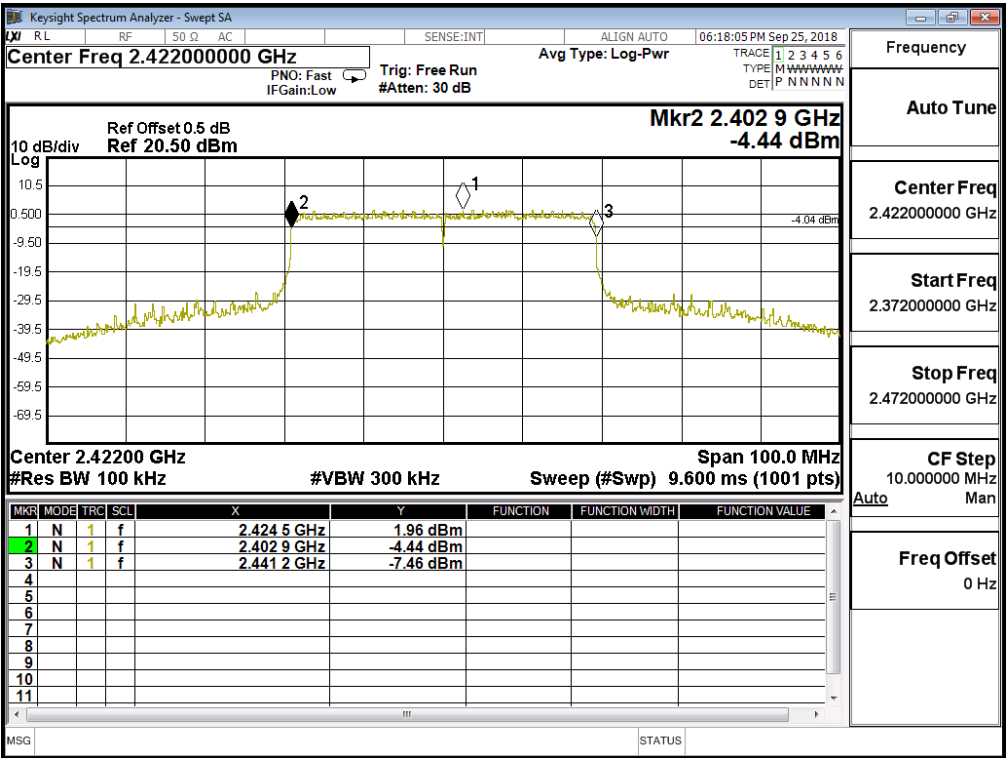


Figure Channel 07:

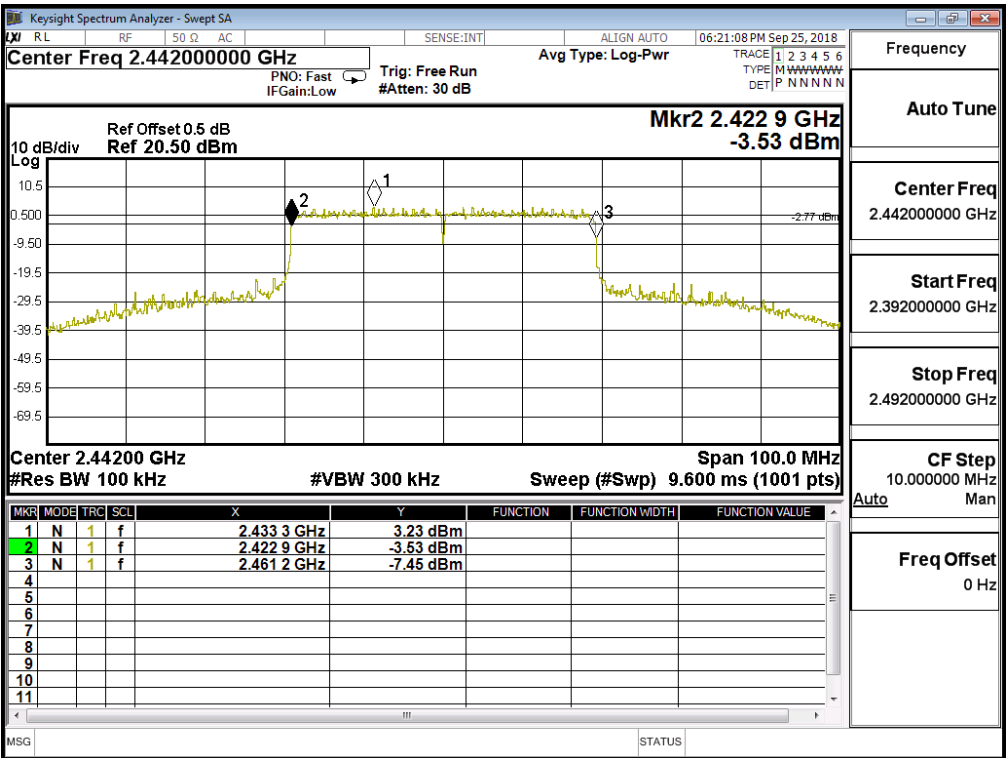


Figure Channel 09:

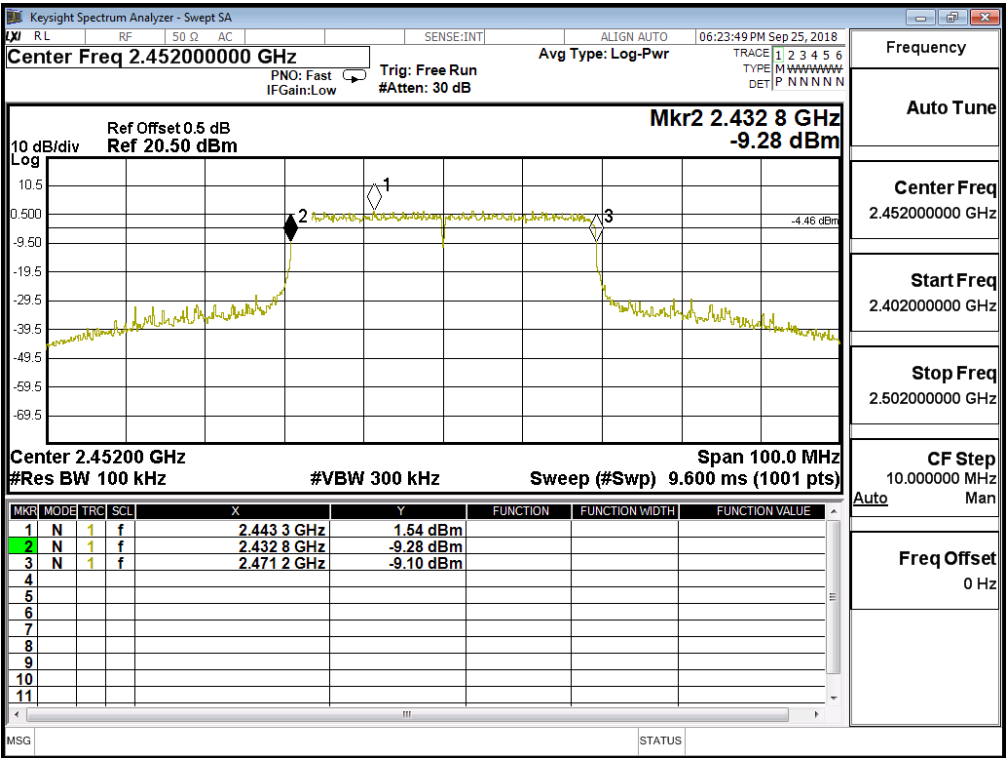


Figure Channel 10:

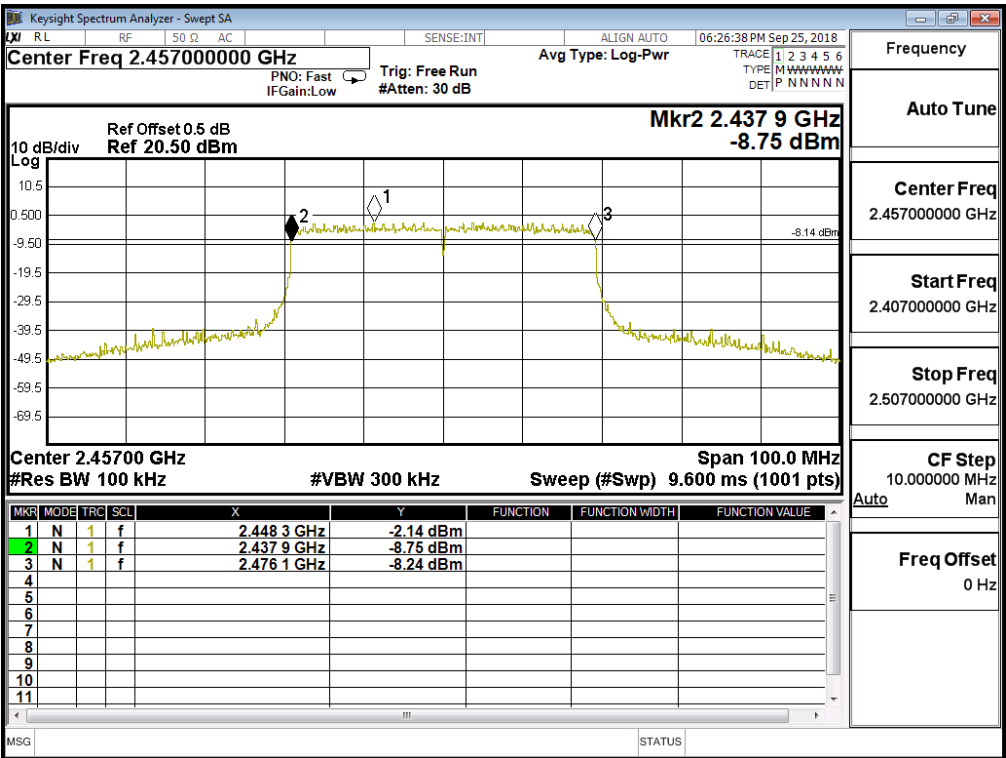
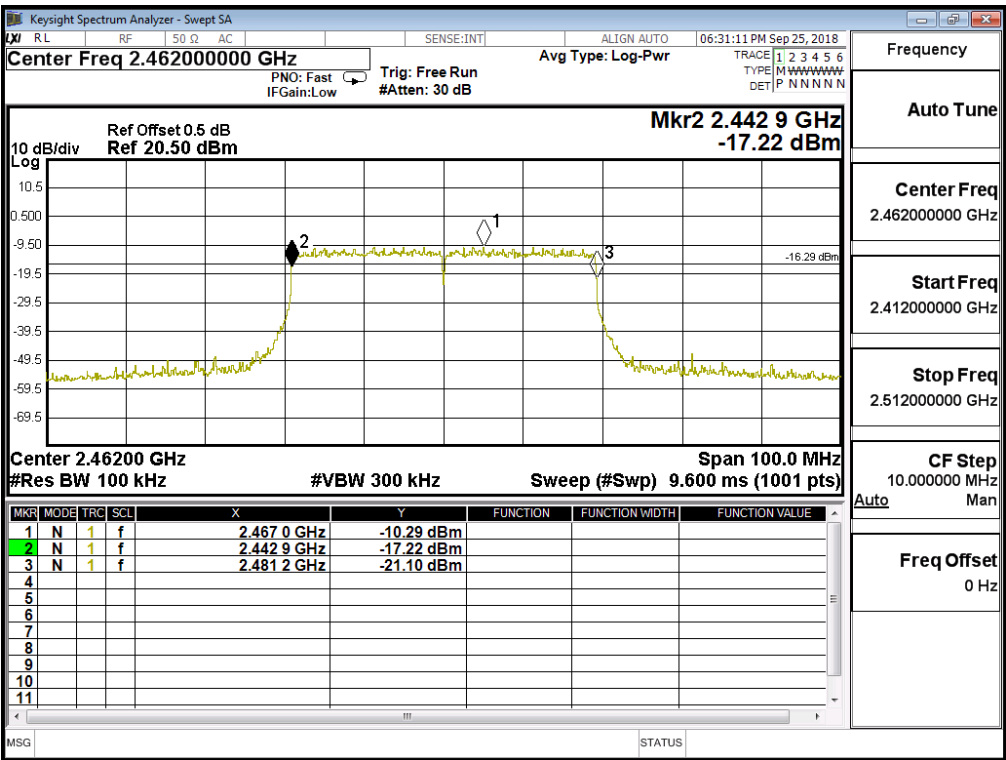


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 3: MIMO: 發射器 802.11ax (20MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	A	19100	>500	Pass
07	2442	A	19150	>500	Pass
11	2462	A	19150	>500	Pass
12	2467	A	19050	>500	Pass
13	2472	A	19200	>500	Pass
01	2412	B	19200	>500	Pass
07	2442	B	19150	>500	Pass
11	2462	B	19150	>500	Pass
12	2467	B	19200	>500	Pass
13	2472	B	19150	>500	Pass

Figure Channel 01: (Chain A)

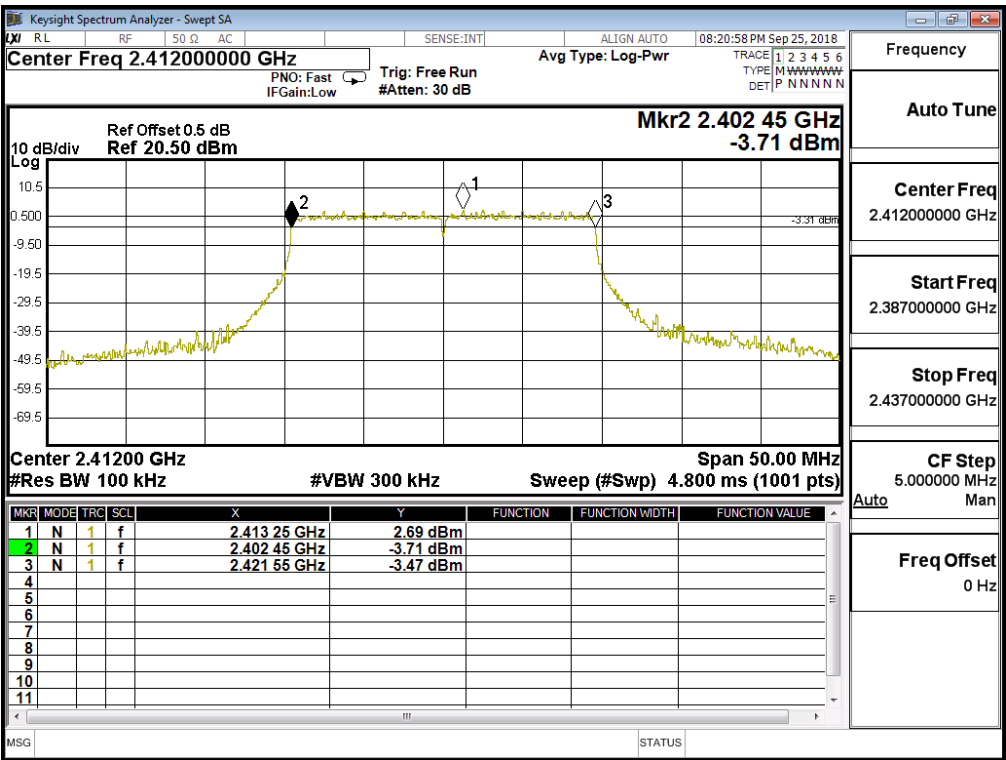


Figure Channel 01: (Chain B)

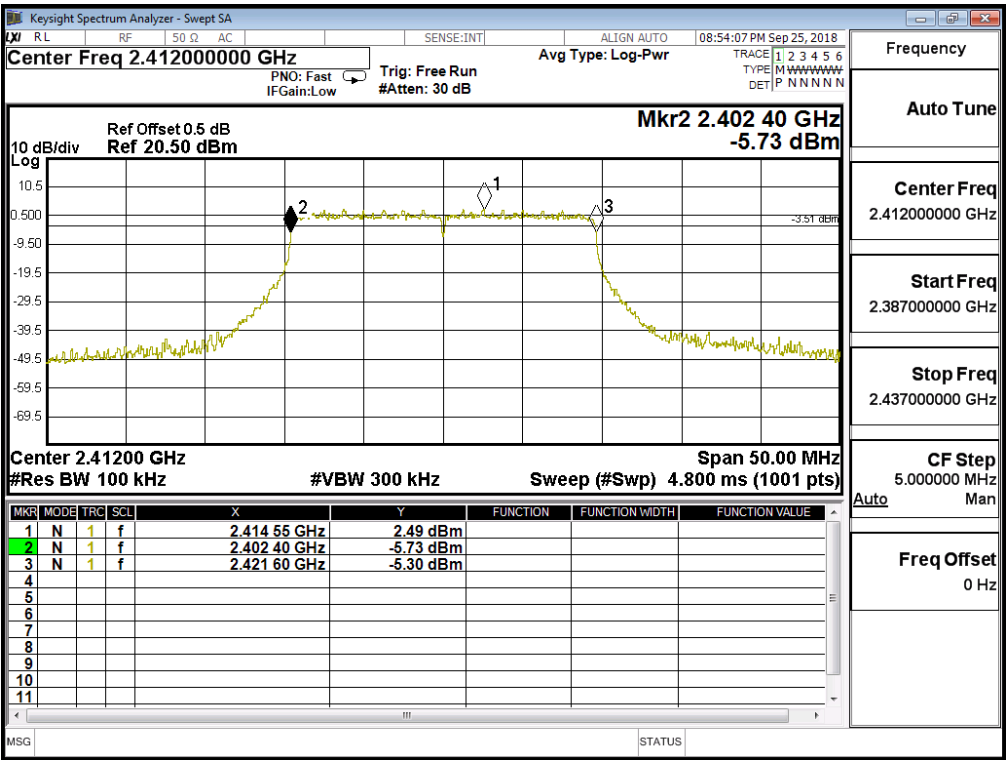


Figure Channel 07: (Chain A)

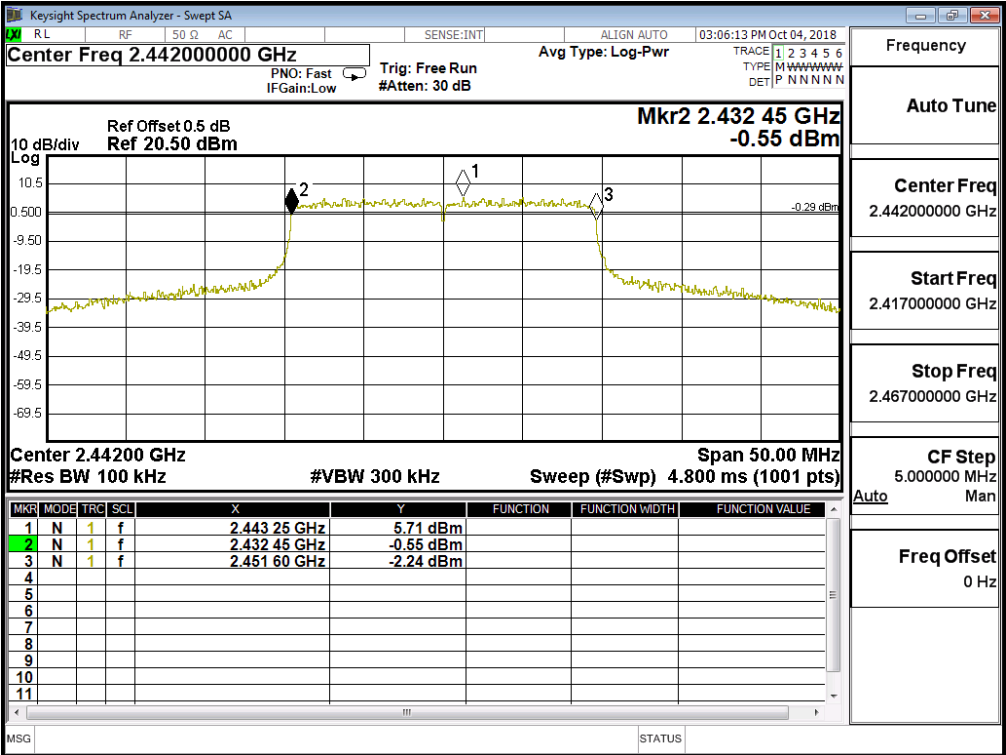


Figure Channel 07: (Chain B)

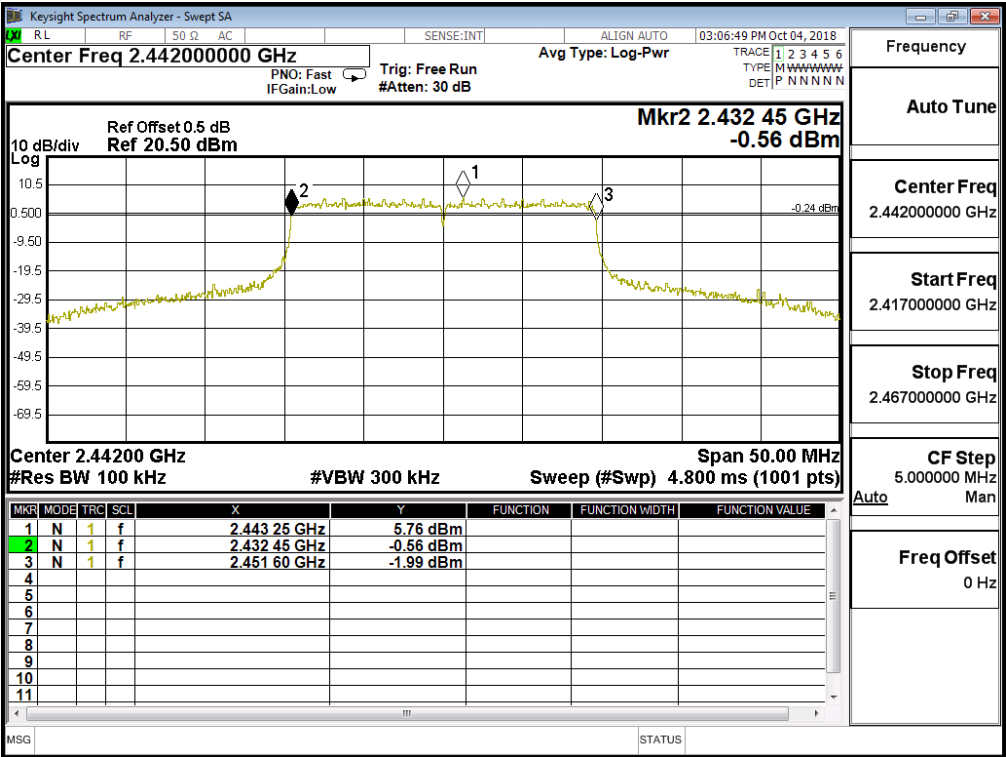


Figure Channel 11: (Chain A)

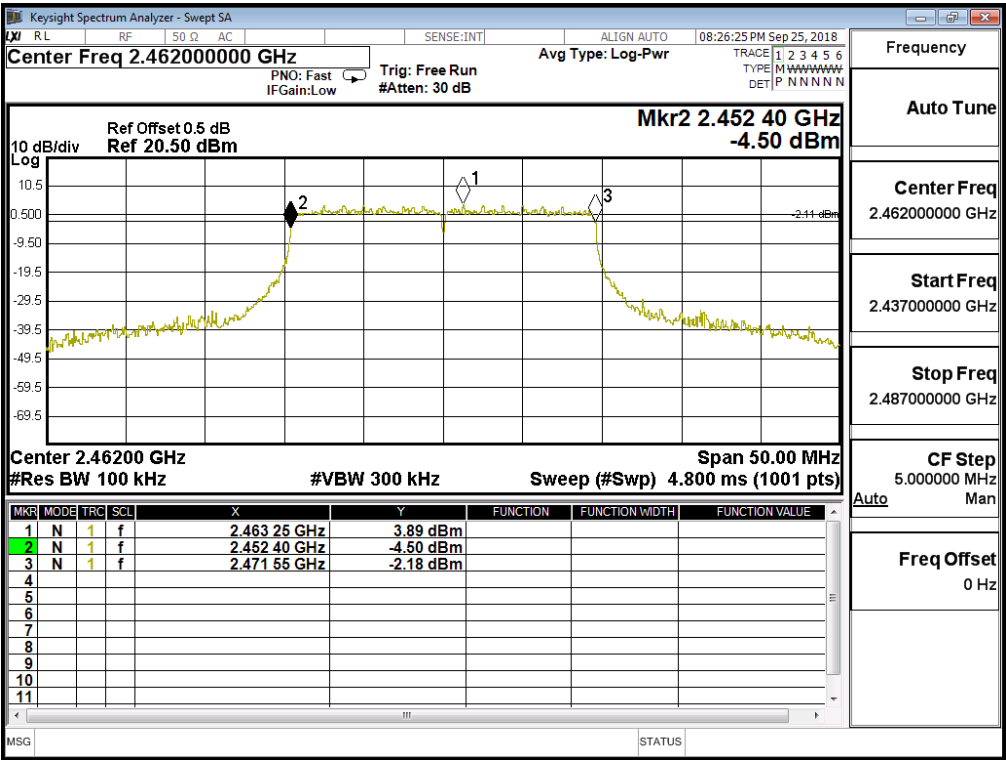


Figure Channel 11: (Chain B)

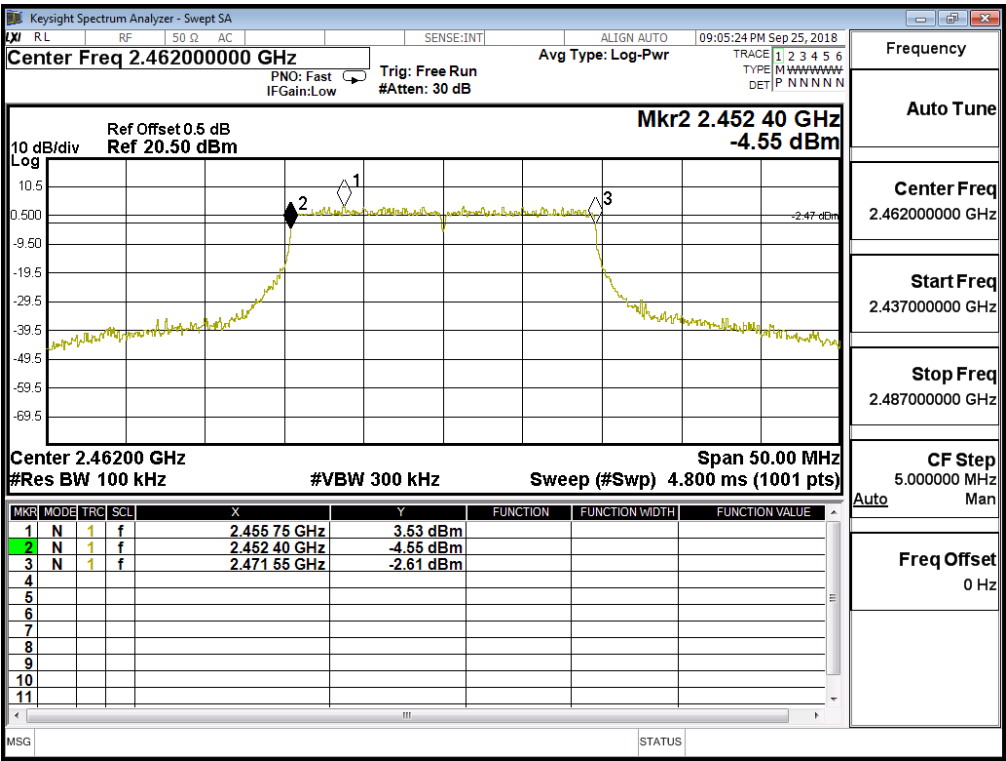


Figure Channel 12: (Chain A)

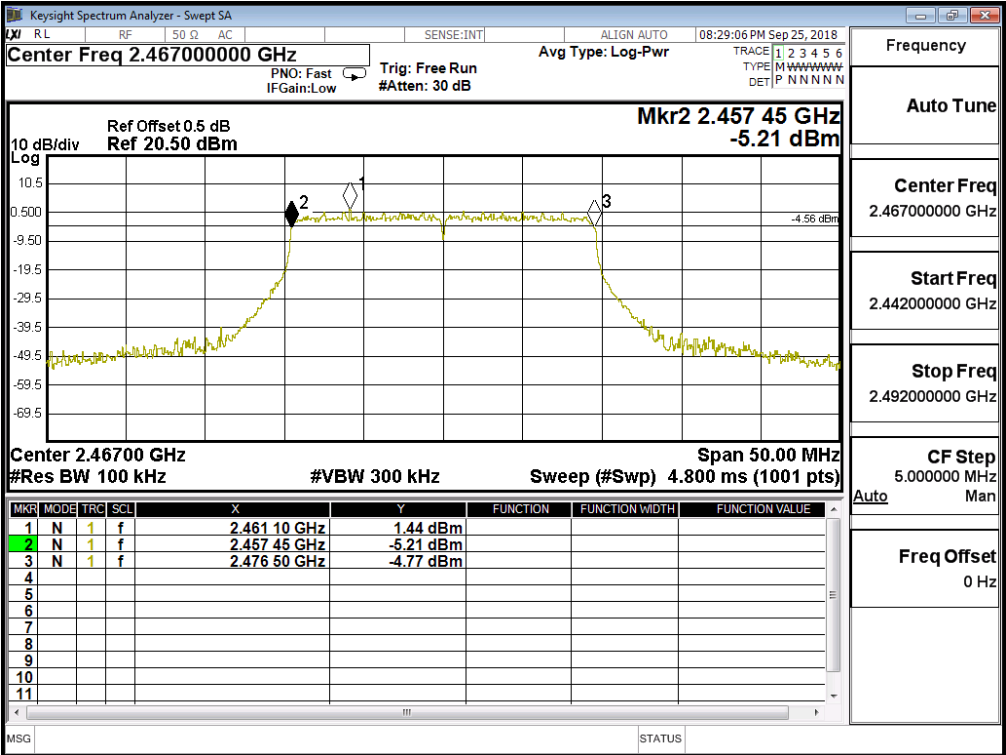


Figure Channel 12: (Chain B)

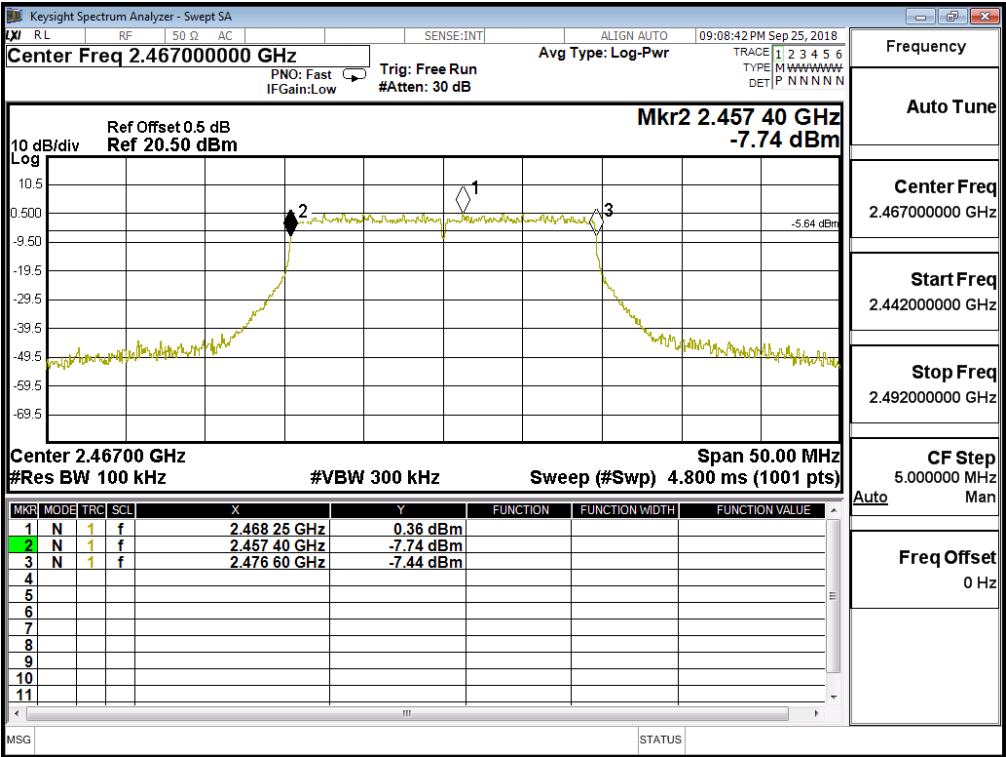


Figure Channel 13: (Chain A)

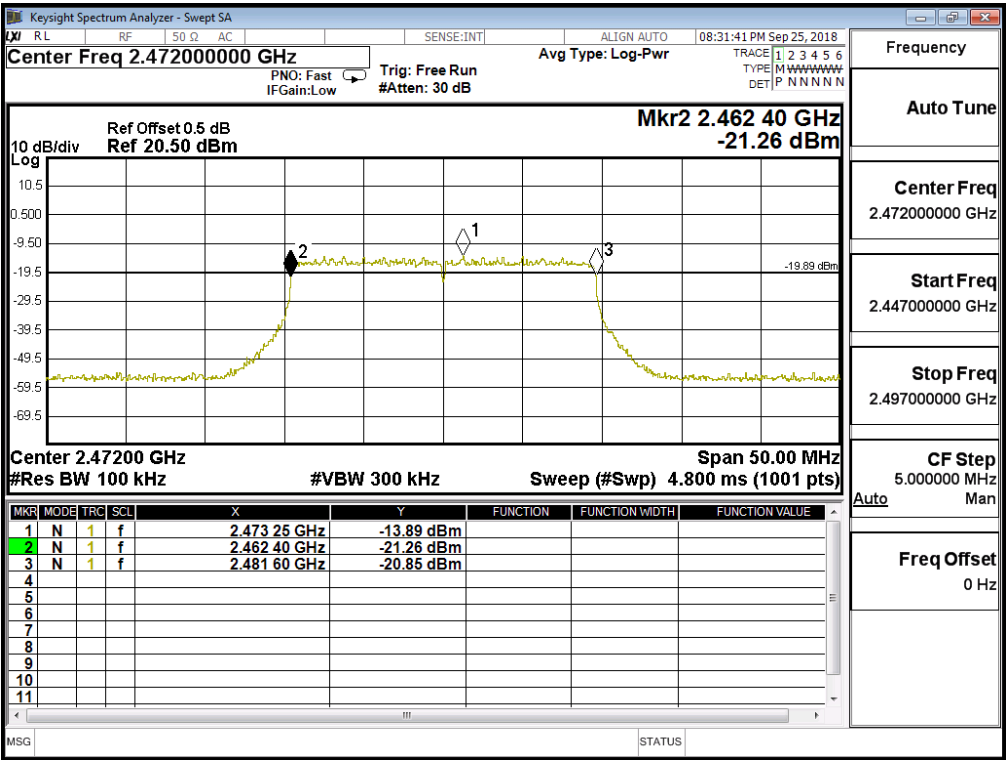
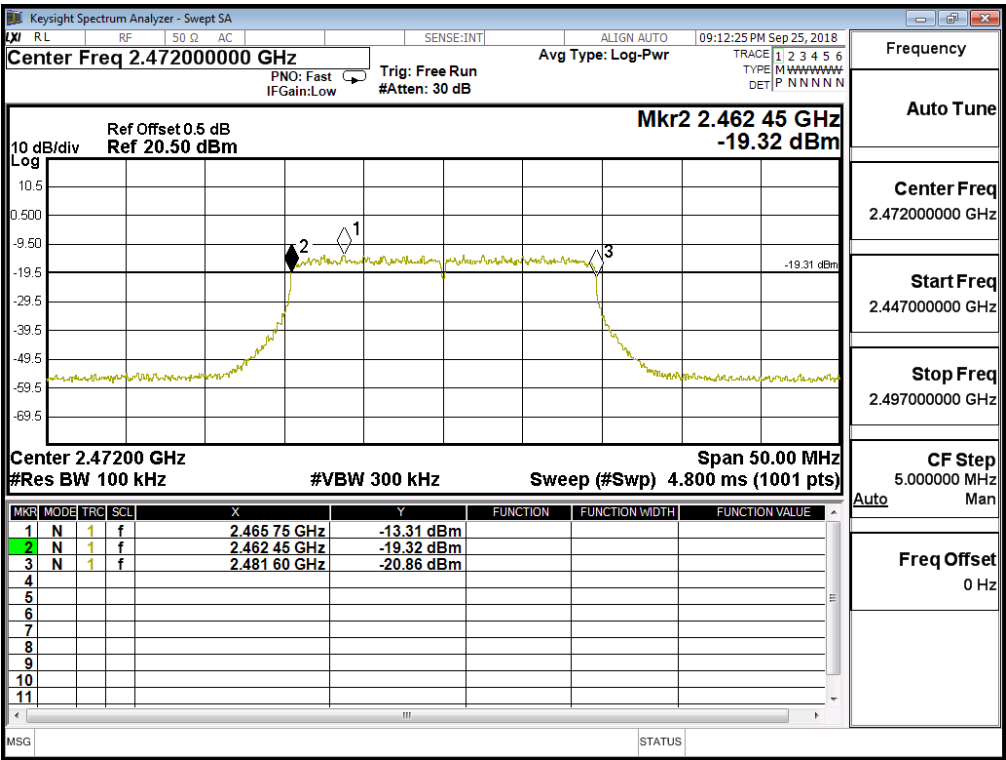


Figure Channel 13: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 3: MIMO: 發射器 802.11ax (40MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	A	38300	>500	Pass
07	2442	A	38300	>500	Pass
09	2452	A	38300	>500	Pass
10	2457	A	38300	>500	Pass
11	2462	A	38300	>500	Pass
03	2422	B	38200	>500	Pass
07	2442	B	38300	>500	Pass
09	2452	B	38200	>500	Pass
10	2457	B	38300	>500	Pass
11	2462	B	38200	>500	Pass

Figure Channel 03: (Chain A)

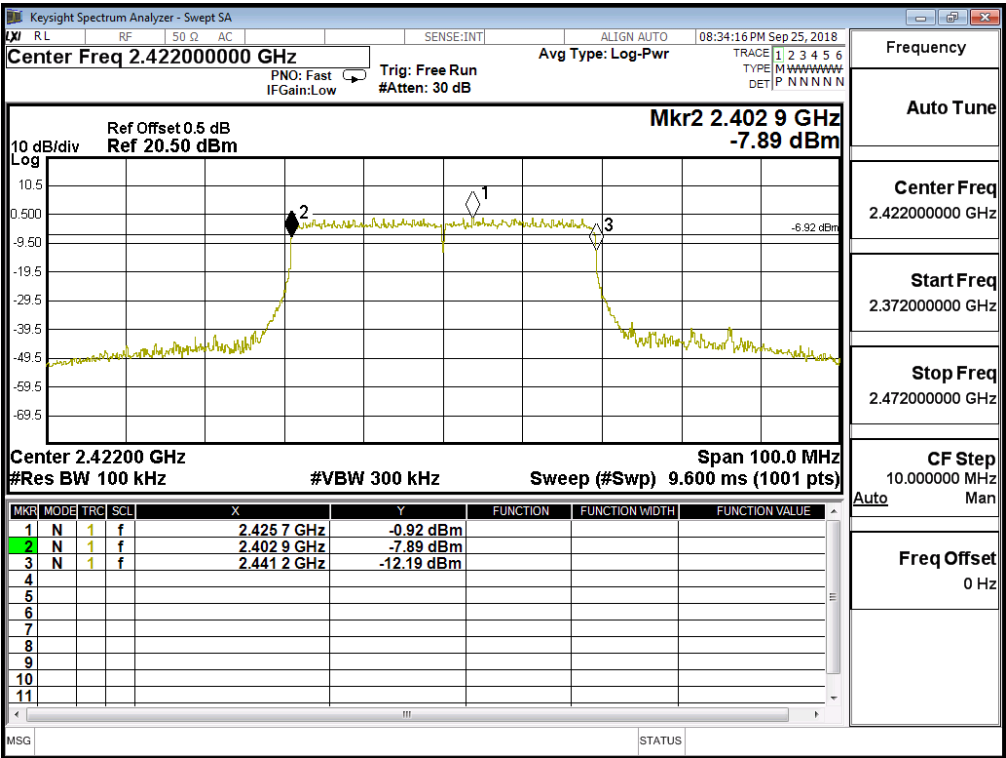


Figure Channel 03: (Chain B)

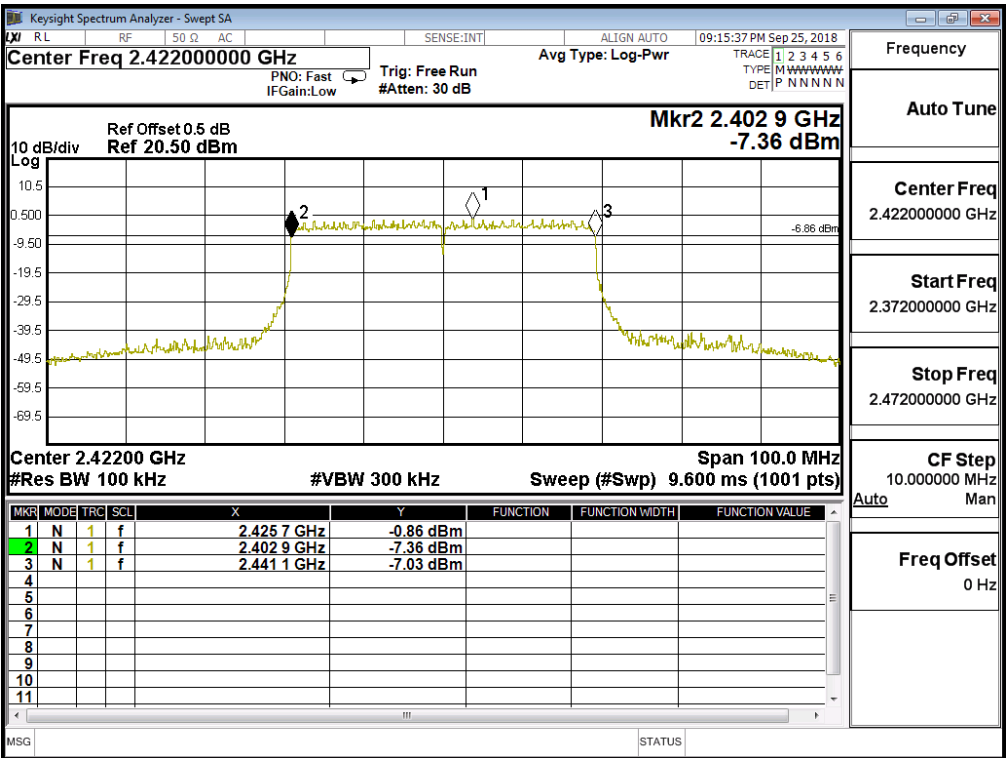


Figure Channel 07: (Chain A)

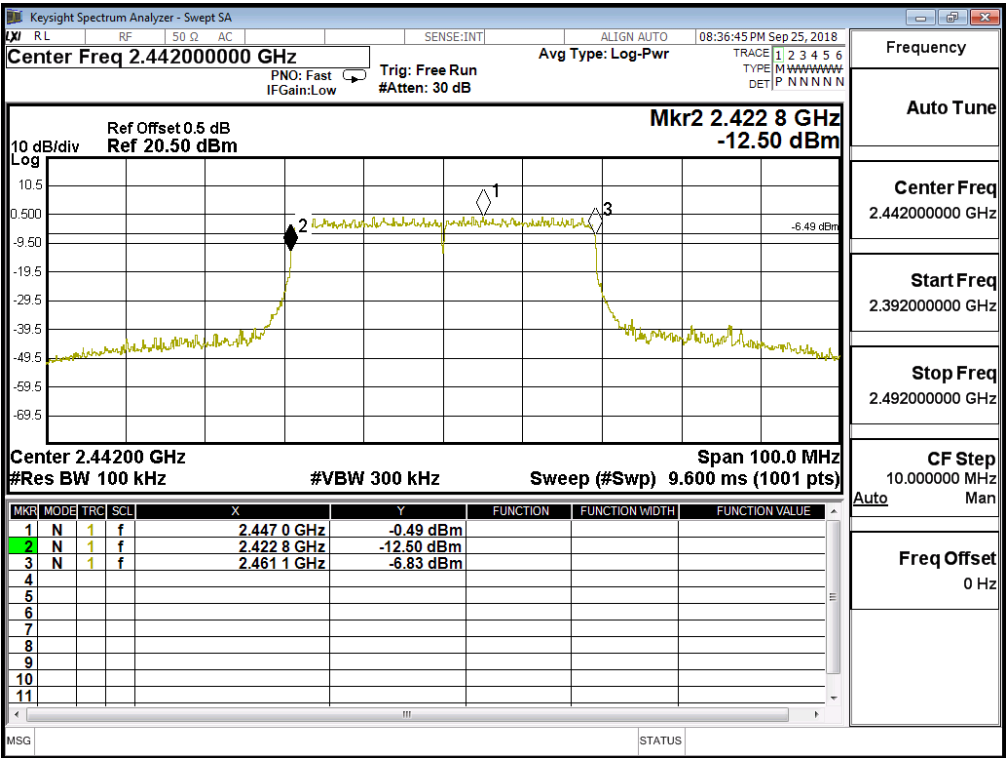


Figure Channel 07: (Chain B)

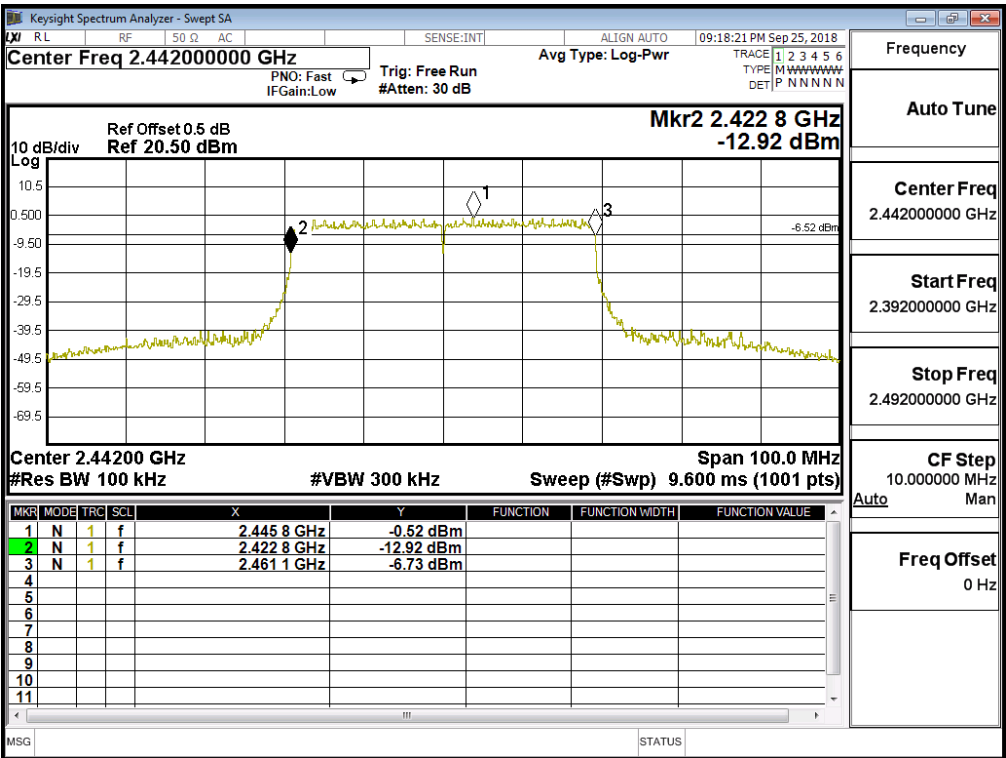


Figure Channel 09: (Chain A)

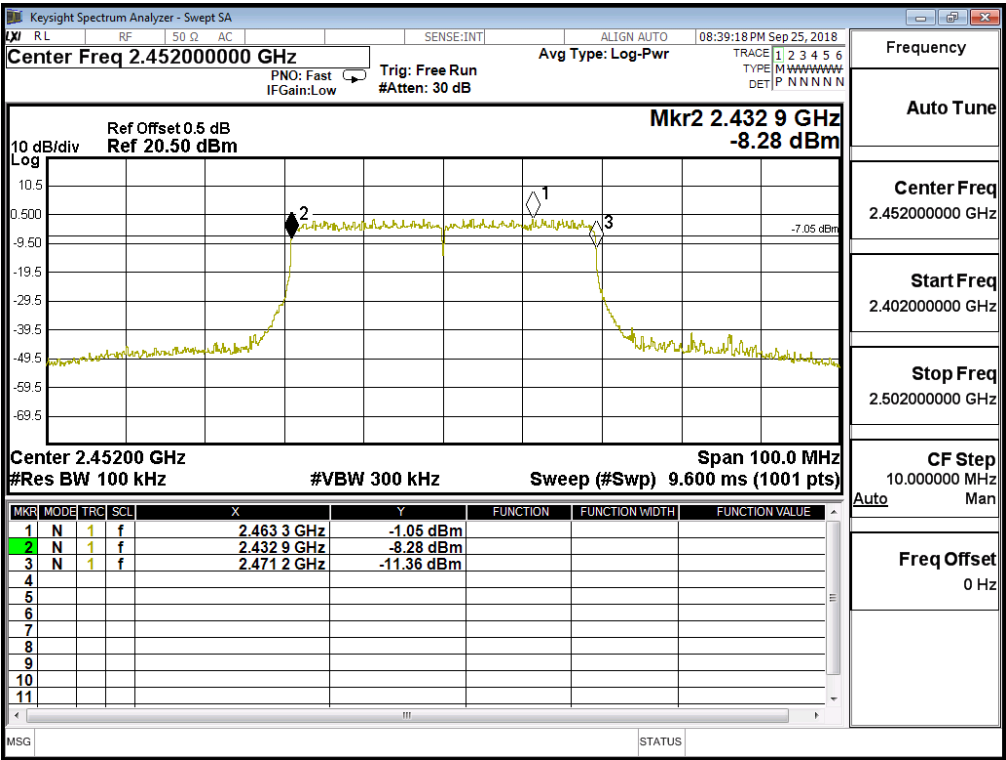


Figure Channel 09: (Chain B)

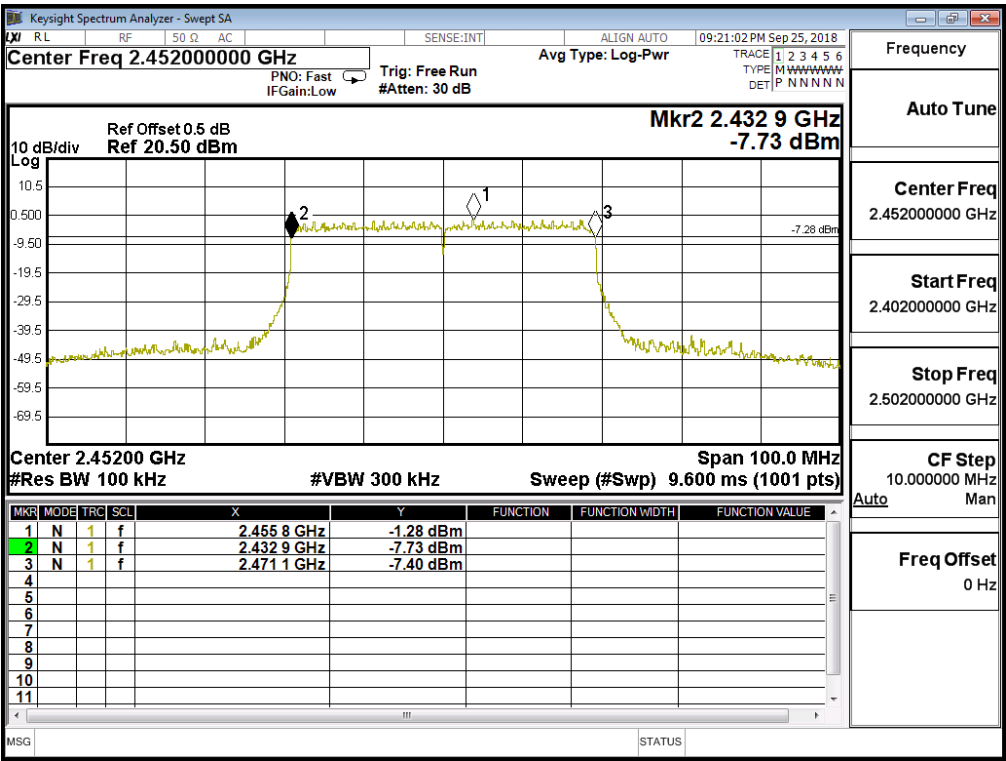


Figure Channel 10: (Chain A)

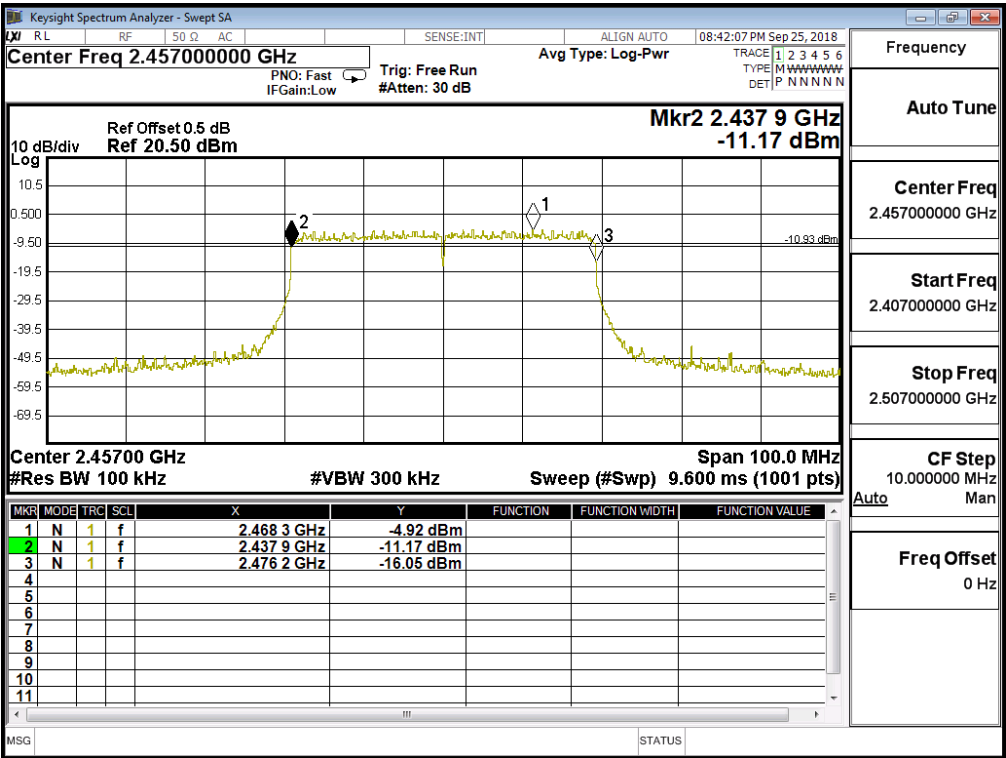


Figure Channel 10: (Chain B)

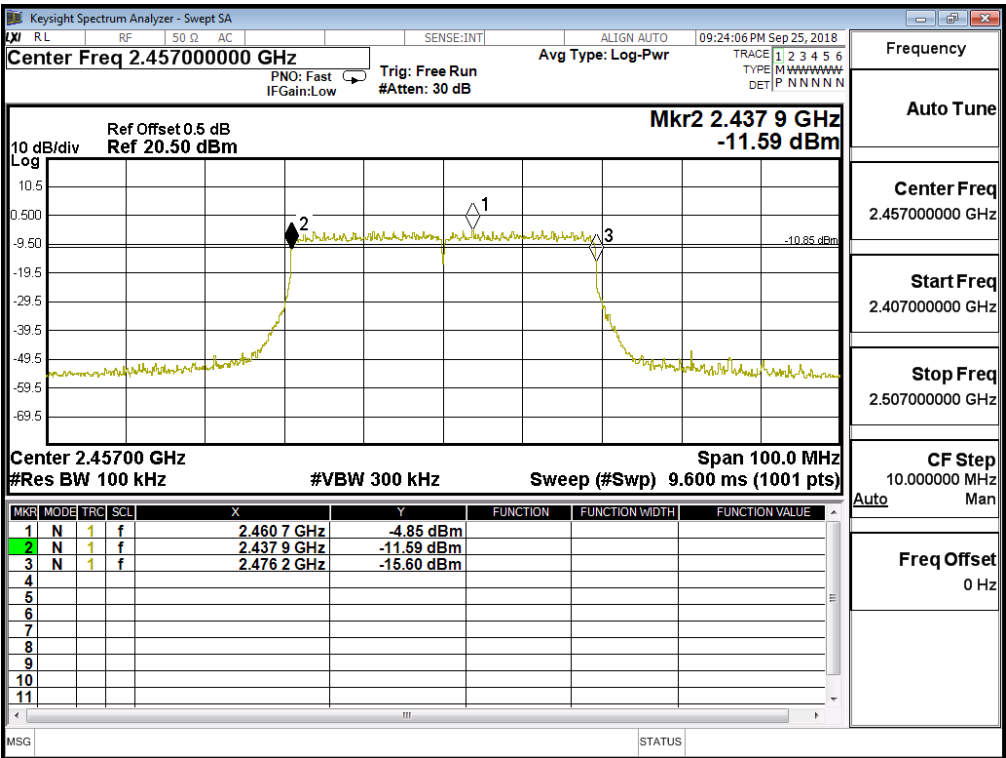


Figure Channel 11: (Chain A)

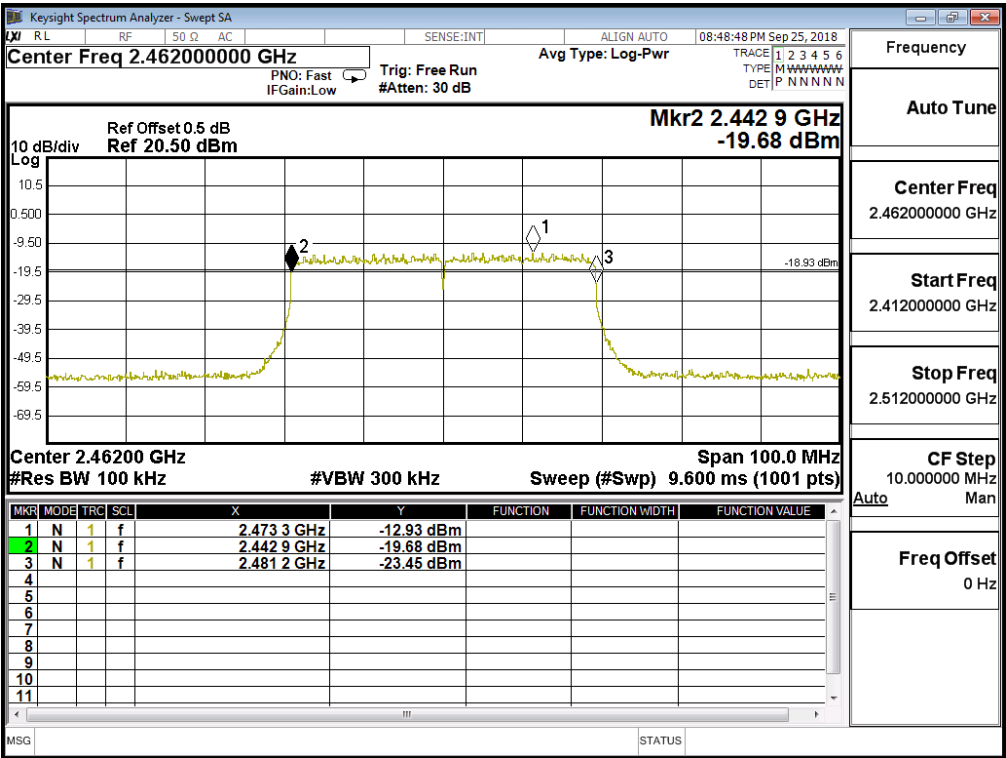
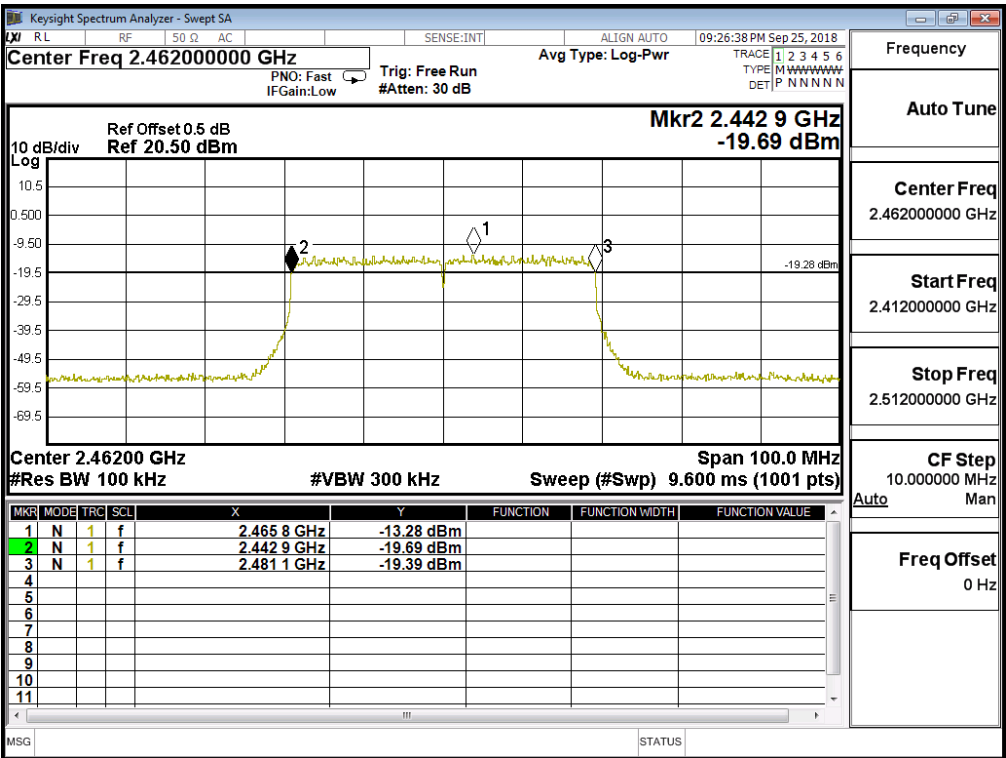


Figure Channel 11: (Chain B)



佔用頻道寬度測試結果:	PASS
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10. 發射電功率密度

10.1. 適用標準

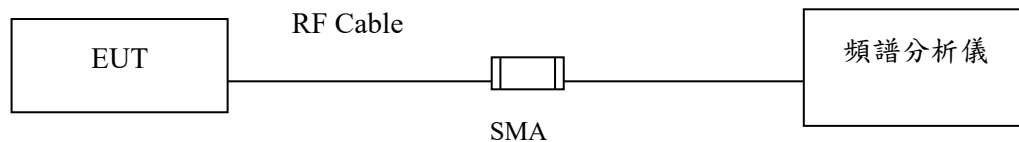
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6 節，在使用頻率範圍之任意 3 千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm，且應依 3.10.1.3 之方式降低功率頻譜密度限制值。

10.2. 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。(SWEEP TIME = SPAN/3kHz)。

待測物應在正常發射狀態下量測。

10.3. 測試架構圖



10.4. 量測不確定度

此項測試之量測不確定度為 $\pm 1.23\text{dB}$ 。

10.5. 功率密度量測結果

待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：功率密度

測試模式：Mode 1: SISO A: 發射器 802.11b

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	7.78	$\leq 8\text{dBm}$	Pass
07	2442	7.54	$\leq 8\text{dBm}$	Pass
11	2462	7.94	$\leq 8\text{dBm}$	Pass
12	2467	7.67	$\leq 8\text{dBm}$	Pass
13	2472	6.03	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

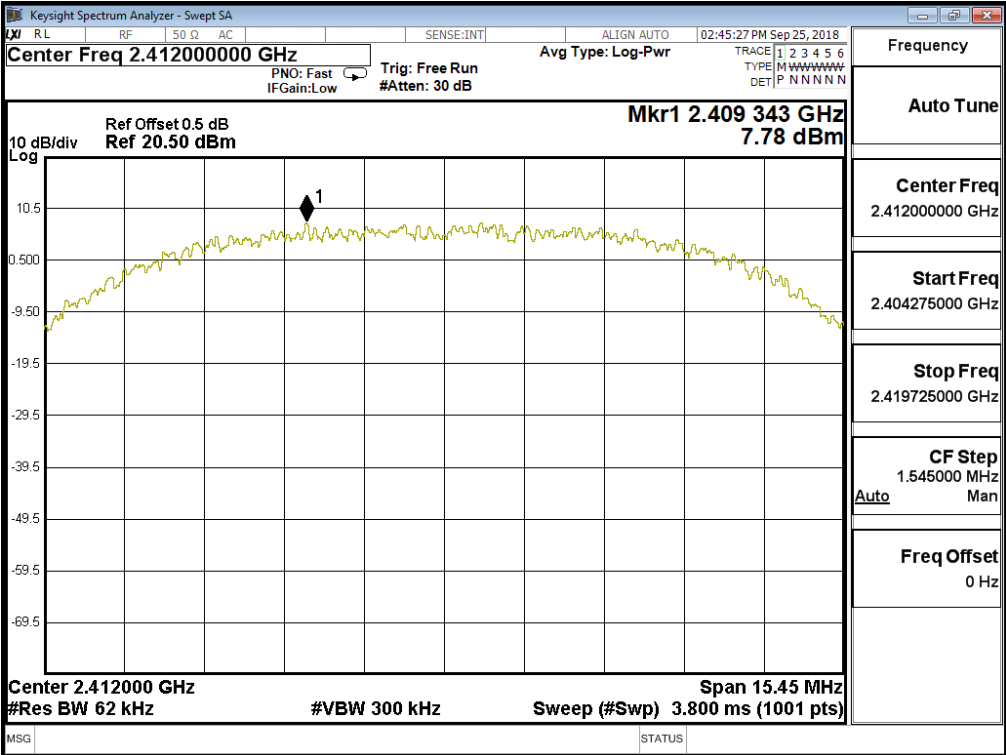


Figure Channel 07:

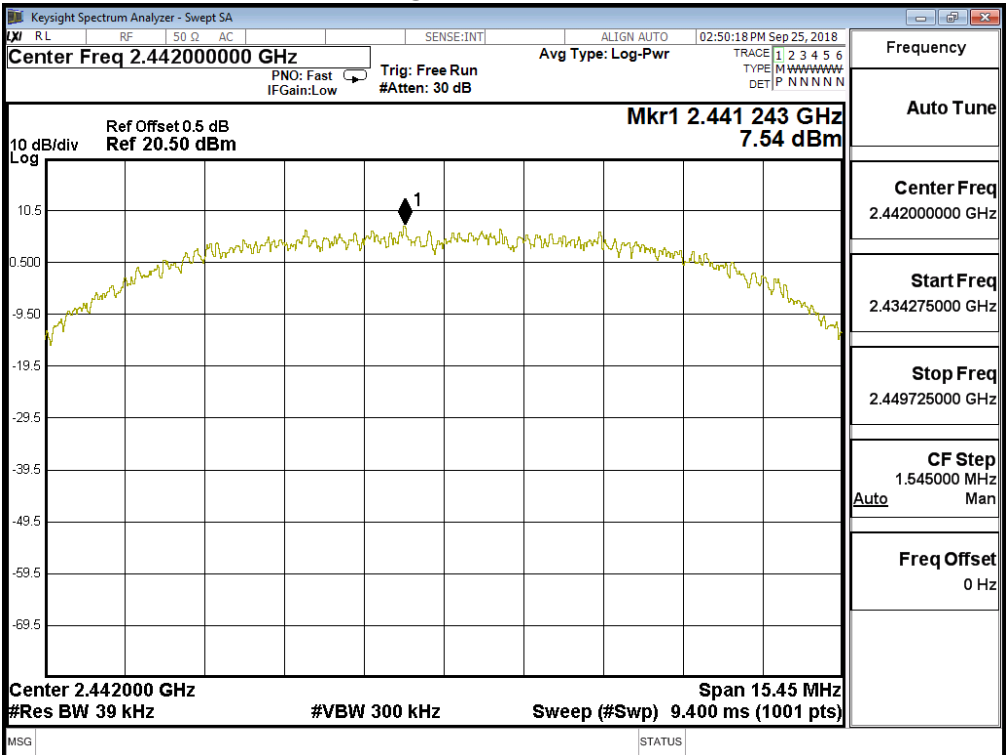


Figure Channel 11:

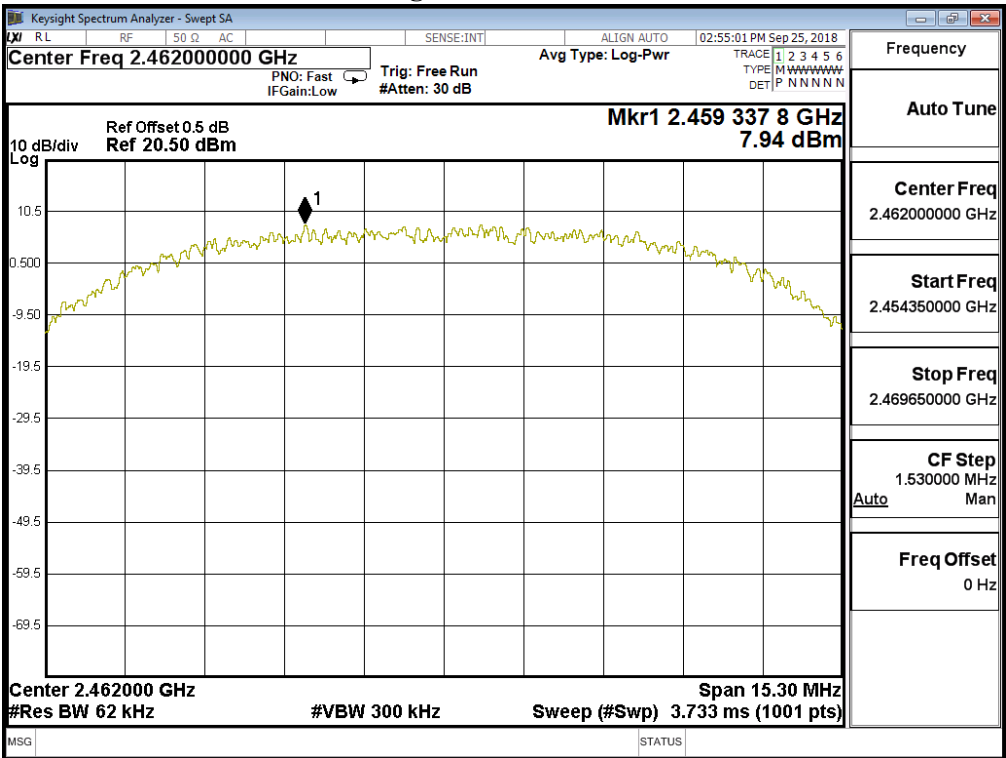


Figure Channel 12:

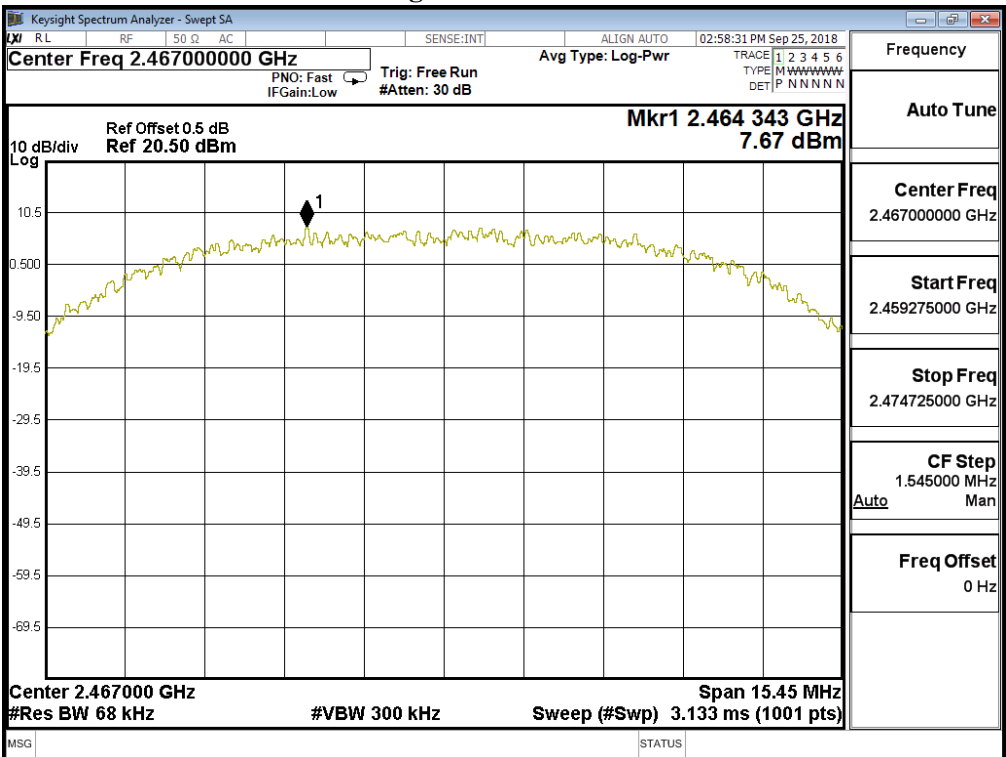
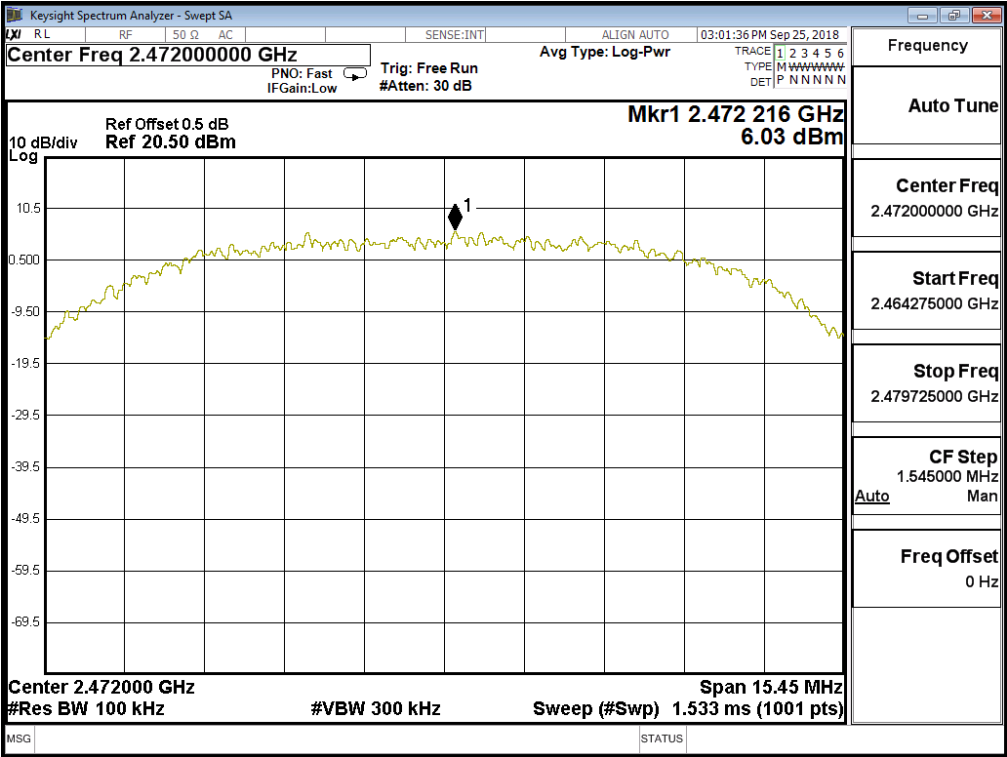


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：功率密度

測試模式：Mode 1: SISO A: 發射器 802.11g

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.91	$\leq 8\text{dBm}$	Pass
07	2442	7.71	$\leq 8\text{dBm}$	Pass
11	2462	7.2	$\leq 8\text{dBm}$	Pass
12	2467	4.17	$\leq 8\text{dBm}$	Pass
13	2472	-9.51	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

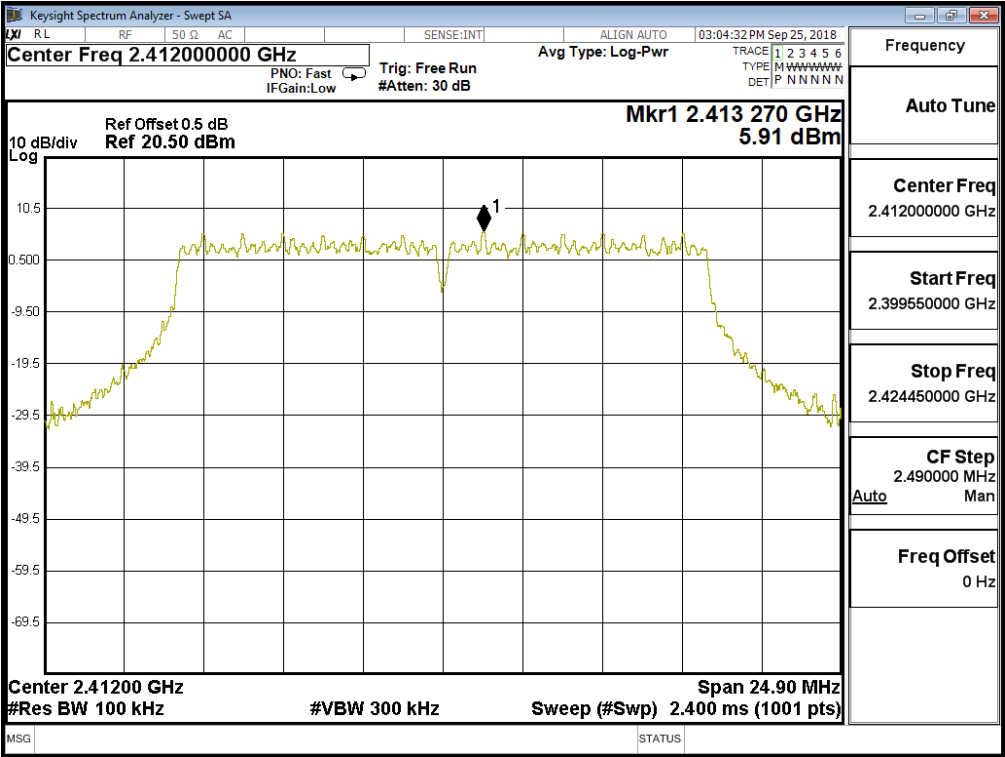


Figure Channel 07:

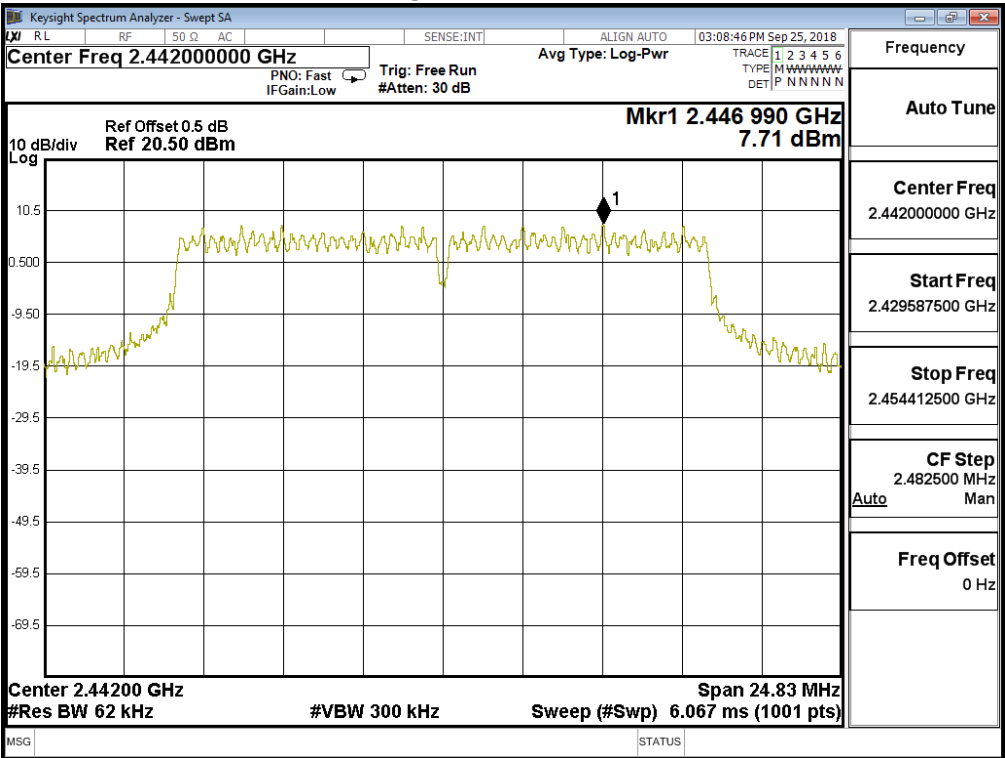


Figure Channel 11:

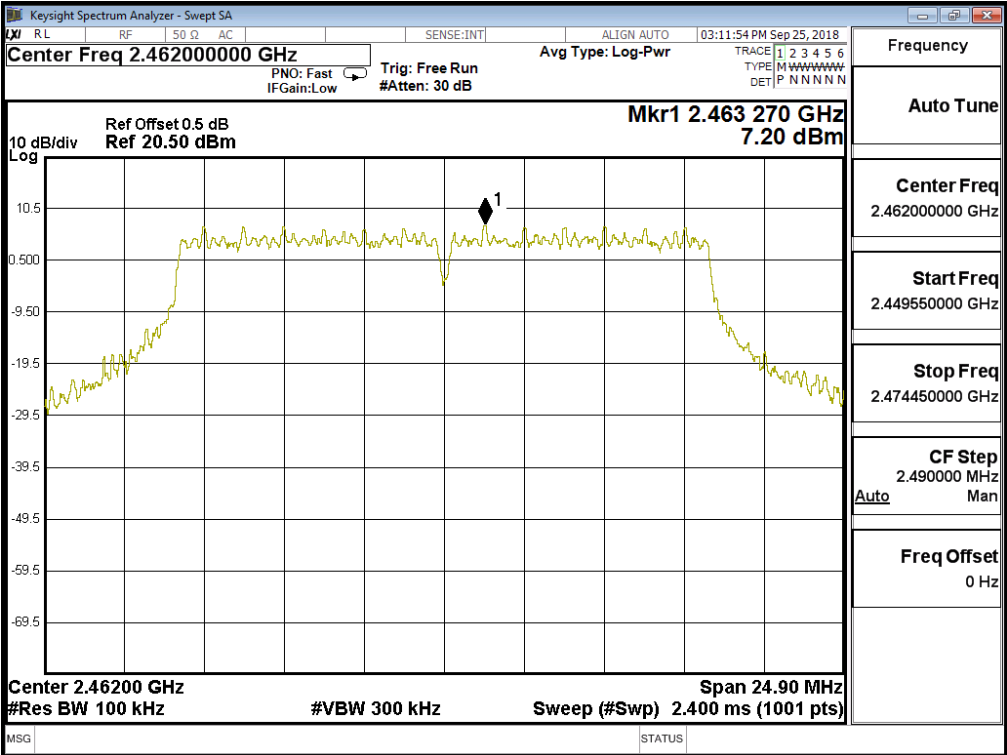


Figure Channel 12:

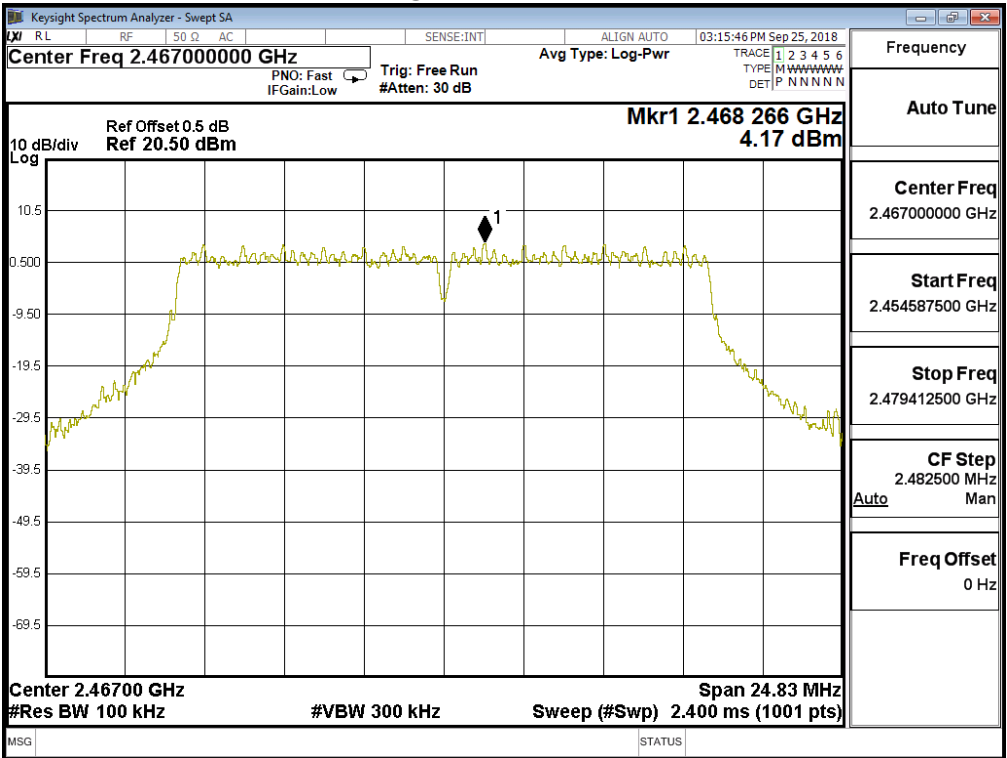
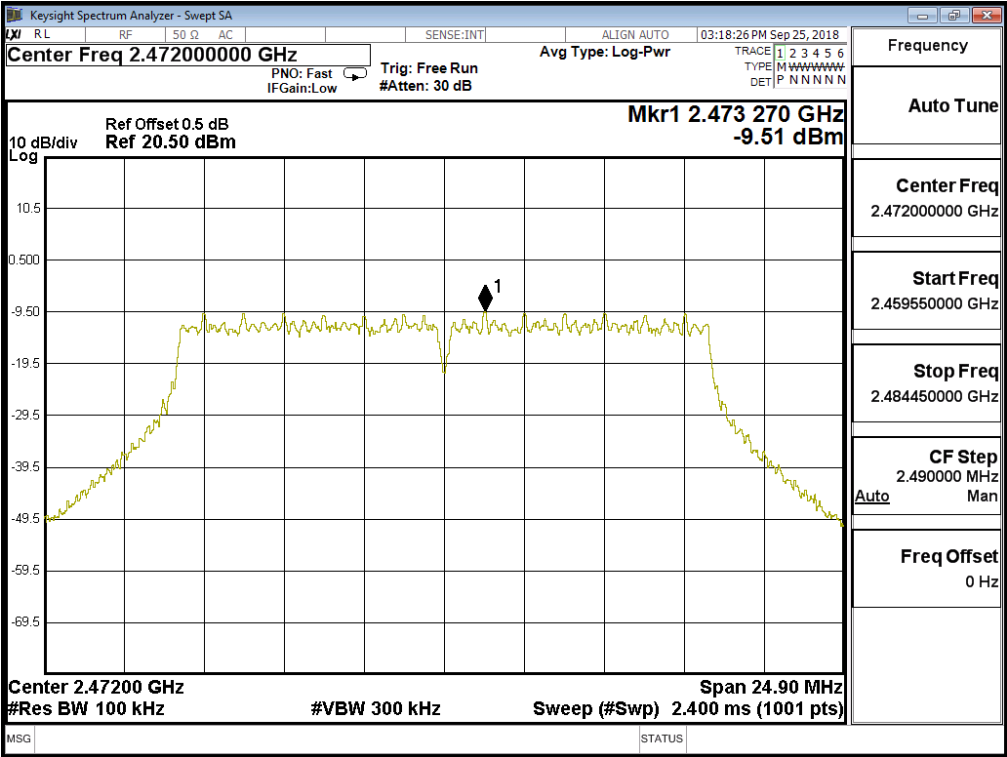


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：功率密度

測試模式：Mode 1: SISO A: 發射器 802.11n (20MHz)

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	6.05	$\leq 8\text{dBm}$	Pass
07	2442	7.85	$\leq 8\text{dBm}$	Pass
11	2462	7.07	$\leq 8\text{dBm}$	Pass
12	2467	4.13	$\leq 8\text{dBm}$	Pass
13	2472	-9.94	$\leq 8\text{dBm}$	Pass

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.41200000 GHz

Ref Offset 0.5 dB
Ref 20.50 dBm

10 dB/div
Log

Mkr1 2.413 258 GHz
6.05 dBm

Center Freq 2.41200000 GHz

Start Freq 2.398612500 GHz

Stop Freq 2.425387500 GHz

CF Step 2.677500 MHz

Freq Offset 0 Hz

Center 2.41200 GHz
#Res BW 100 kHz

#VBW 300 kHz

Sweep (#Swp) 2.600 ms (1001 pts)

Span 26.78 MHz

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:25:38 PM Sep 25, 2018

Center Freq 2.44200000 GHz Avg Type: Log-Pwr

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET P N N N N N N

Frequency

Auto Tune

Center Freq 2.44200000 GHz

Start Freq 2.428612500 GHz

Stop Freq 2.455387500 GHz

CF Step 2.677500 MHz

Auto Man

Freq Offset 0 Hz

Ref Offset 0.5 dB
Ref 20.50 dBm

Mkr1 2.446 980 GHz
7.85 dBm

10 dB/div
Log

The spectrum analyzer display shows a swept signal. The vertical axis represents power in dBm, ranging from -69.5 to 10.5 dBm. The horizontal axis represents frequency in GHz, ranging from 2.44200 GHz to 2.44698 GHz. The signal is a noisy trace that rises from approximately -19.5 dBm at 2.44200 GHz to a peak of about 10.5 dBm at 2.44698 GHz, and then falls back to approximately -19.5 dBm. A peak marker labeled '1' is placed at the maximum of the signal. The signal is identified as Mkr1 2.446 980 GHz with a power of 7.85 dBm. The center frequency is 2.44200 GHz, the span is 26.78 MHz, and the resolution bandwidth is 300 kHz. The sweep rate is 6.533 ms (1001 pts).

Center 2.44200 GHz Span 26.78 MHz
#Res BW 62 kHz #VBW 300 kHz Sweep (#Swp) 6.533 ms (1001 pts)

MSG STATUS

Figure Channel 11:

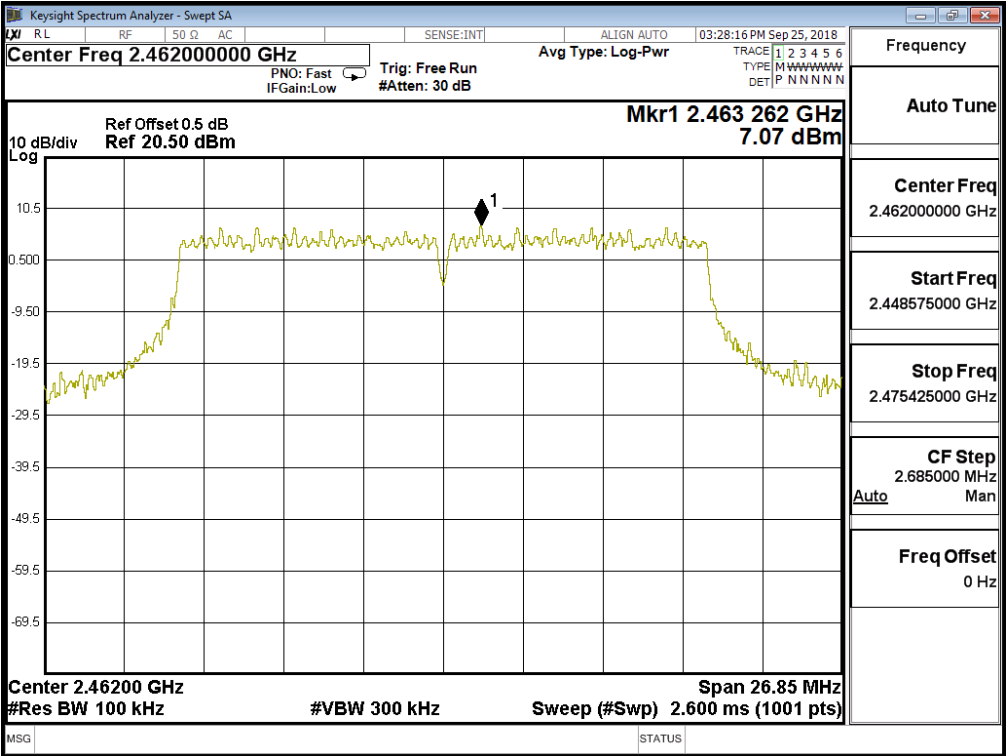


Figure Channel 12:

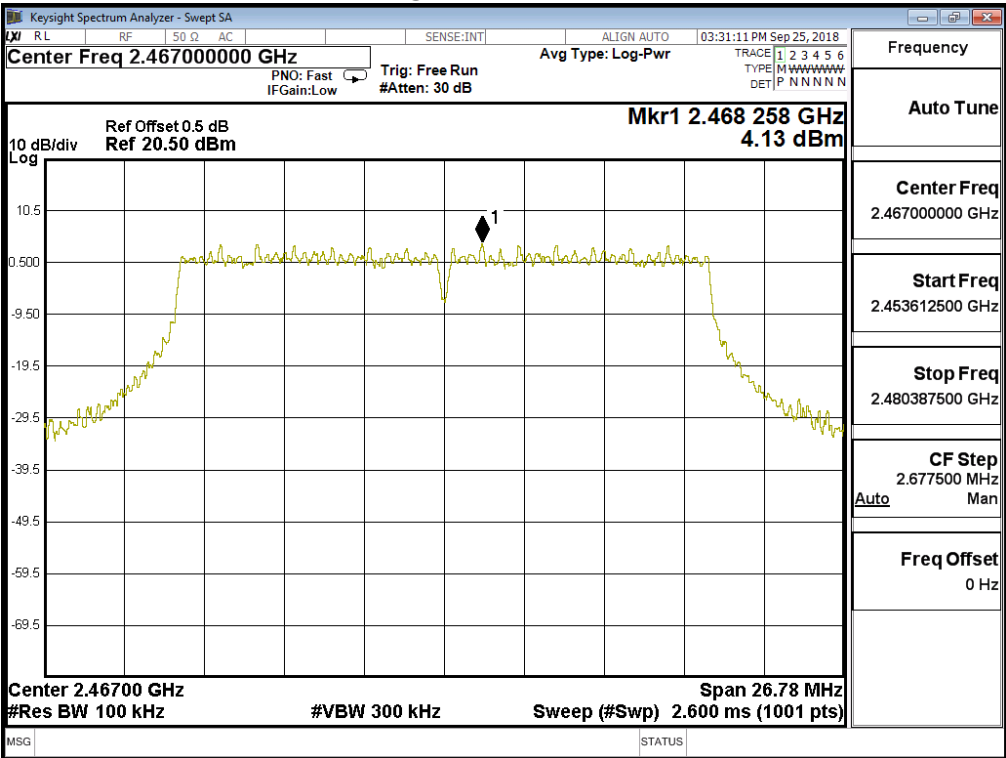
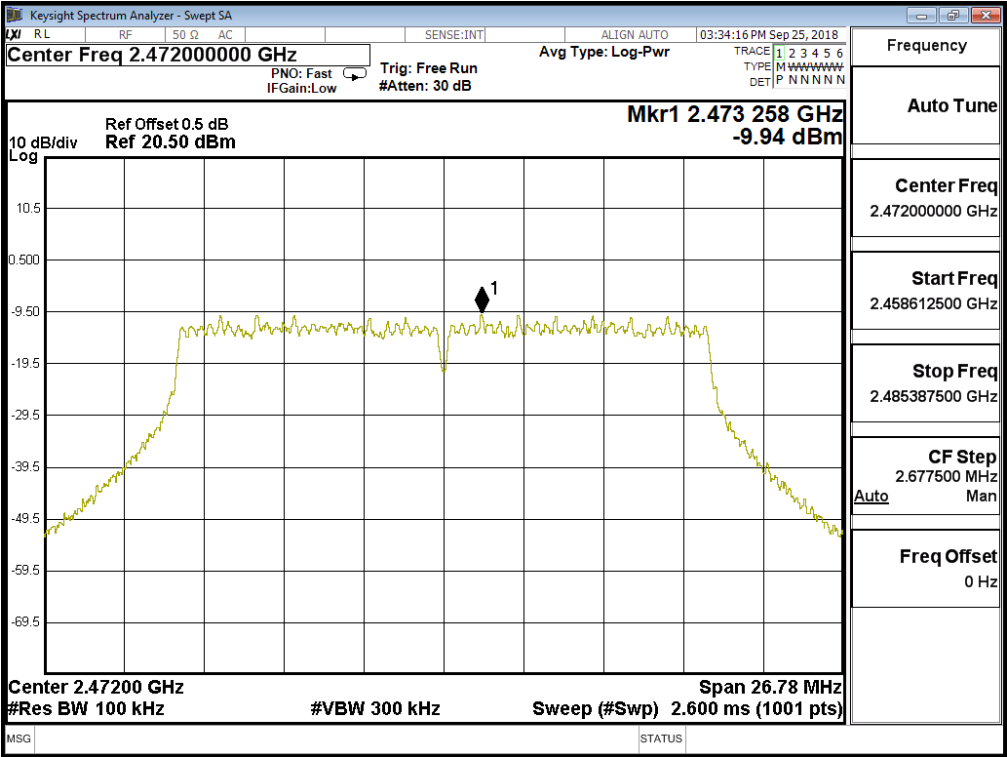


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：功率密度

測試模式：Mode 1: SISO A: 發射器 802.11n (40MHz)

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.42	$\leq 8\text{dBm}$	Pass
07	2442	2.79	$\leq 8\text{dBm}$	Pass
09	2452	2.02	$\leq 8\text{dBm}$	Pass
10	2457	-1.41	$\leq 8\text{dBm}$	Pass
11	2462	-9.13	$\leq 8\text{dBm}$	Pass

Figure Channel 03:

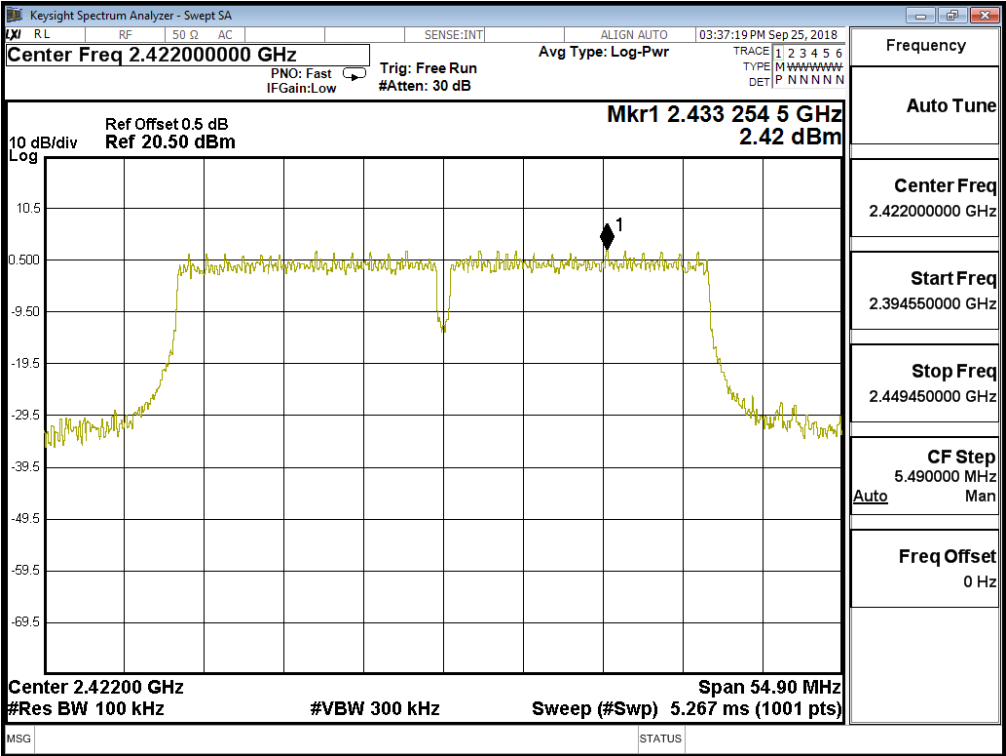


Figure Channel 07:

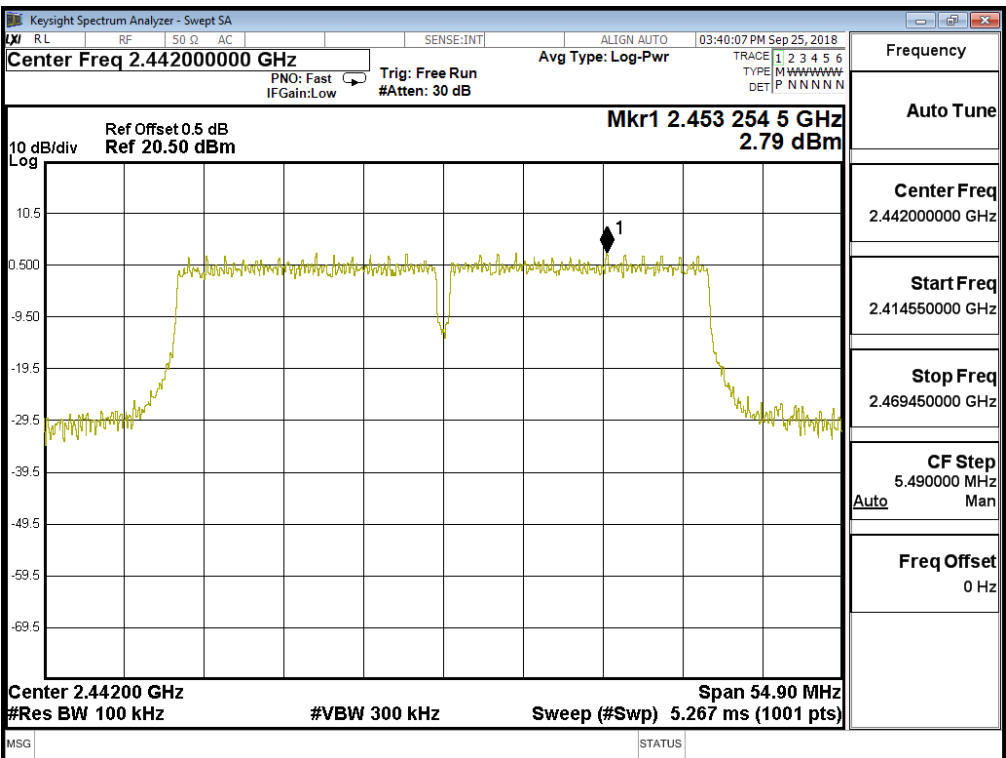


Figure Channel 09:

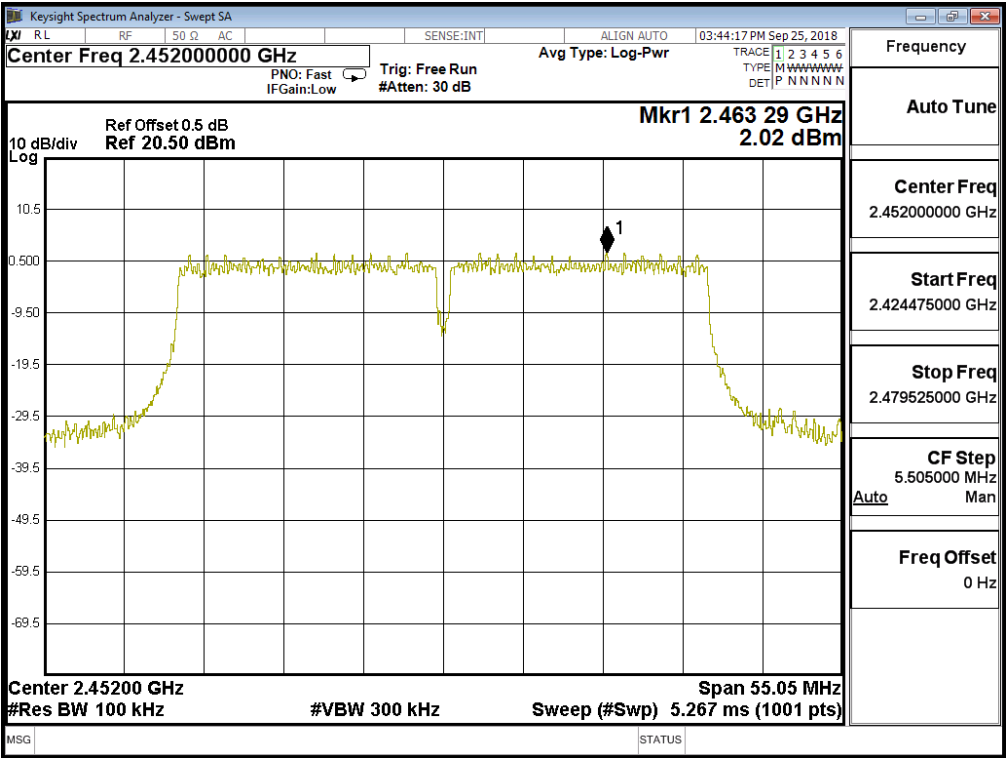


Figure Channel 10:

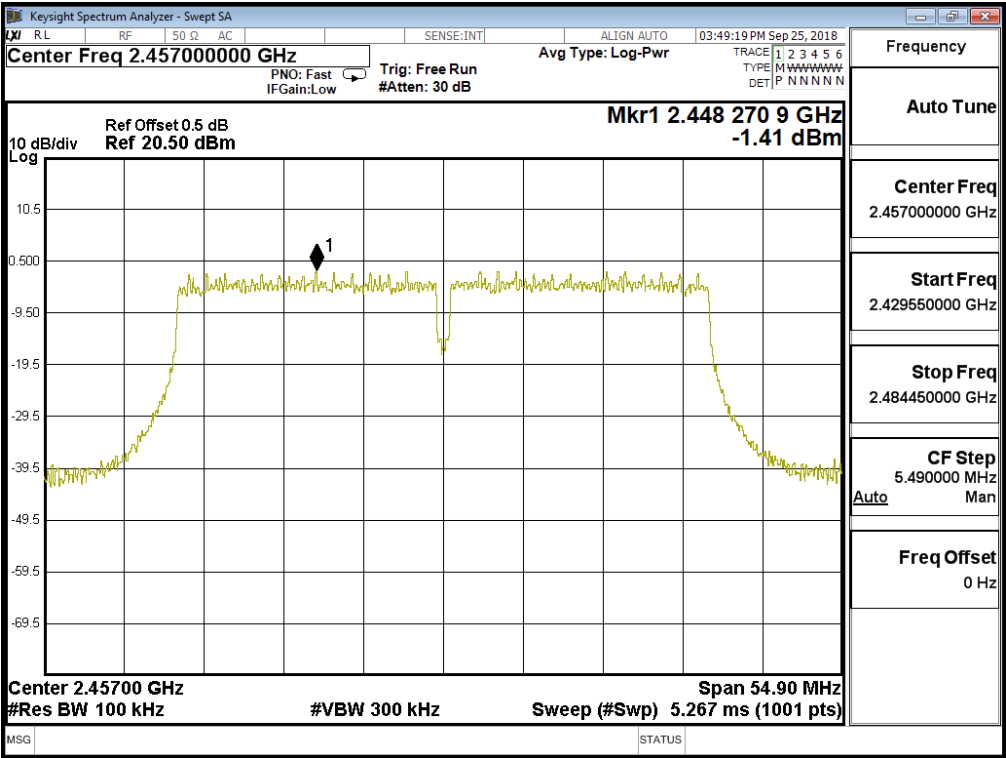
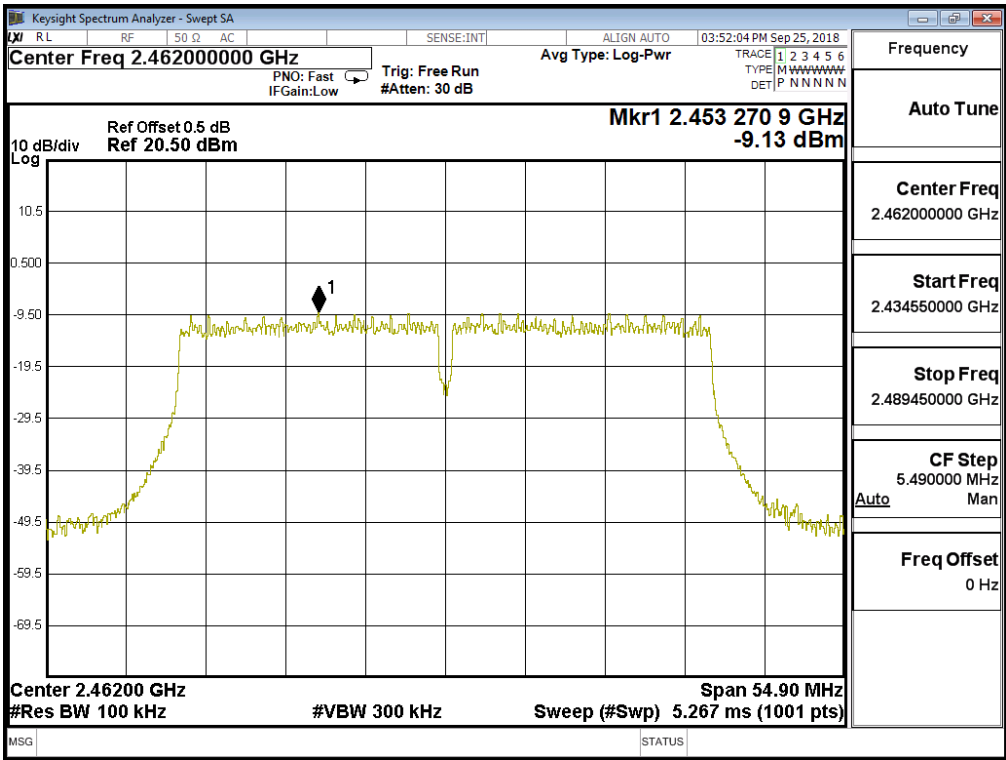


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：功率密度

測試模式：Mode 2: SISO B: 發射器 802.11b

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	7.90	≤8dBm	Pass
07	2442	7.82	≤8dBm	Pass
11	2462	7.21	≤8dBm	Pass
12	2467	7.64	≤8dBm	Pass
13	2472	5.97	≤8dBm	Pass

Figure Channel 01:

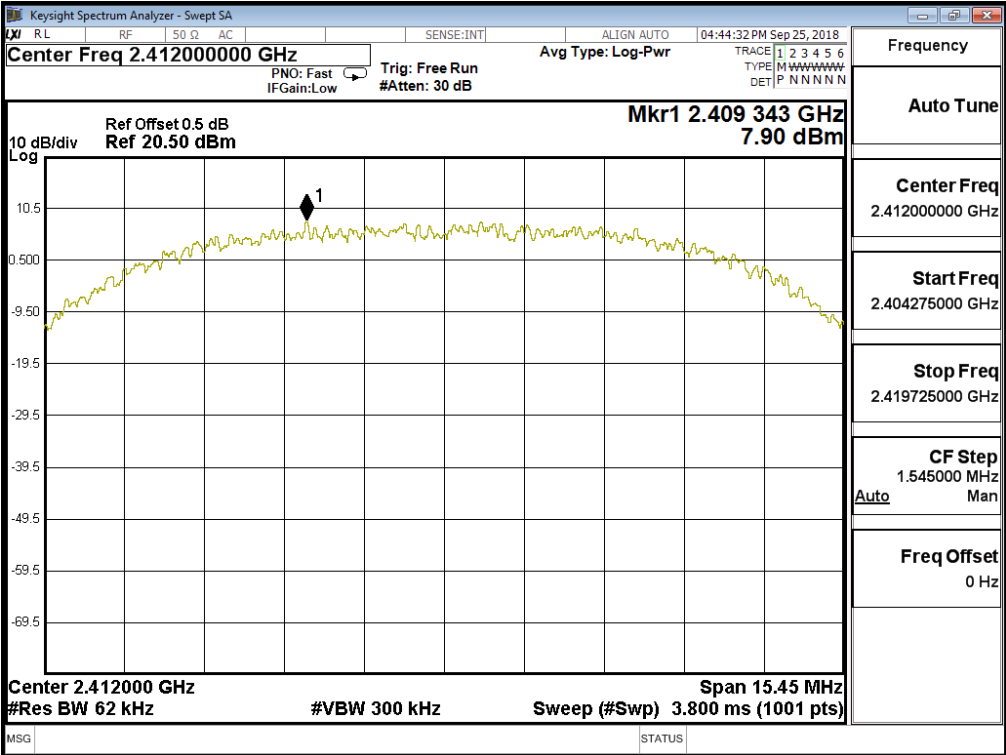


Figure Channel 07:

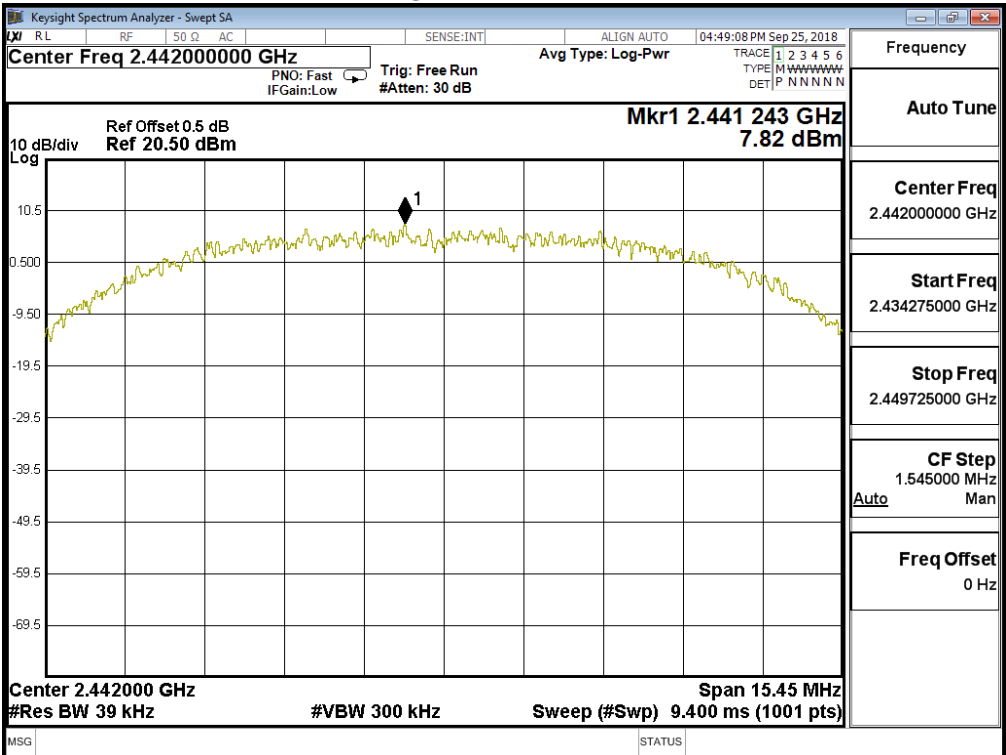


Figure Channel 11:

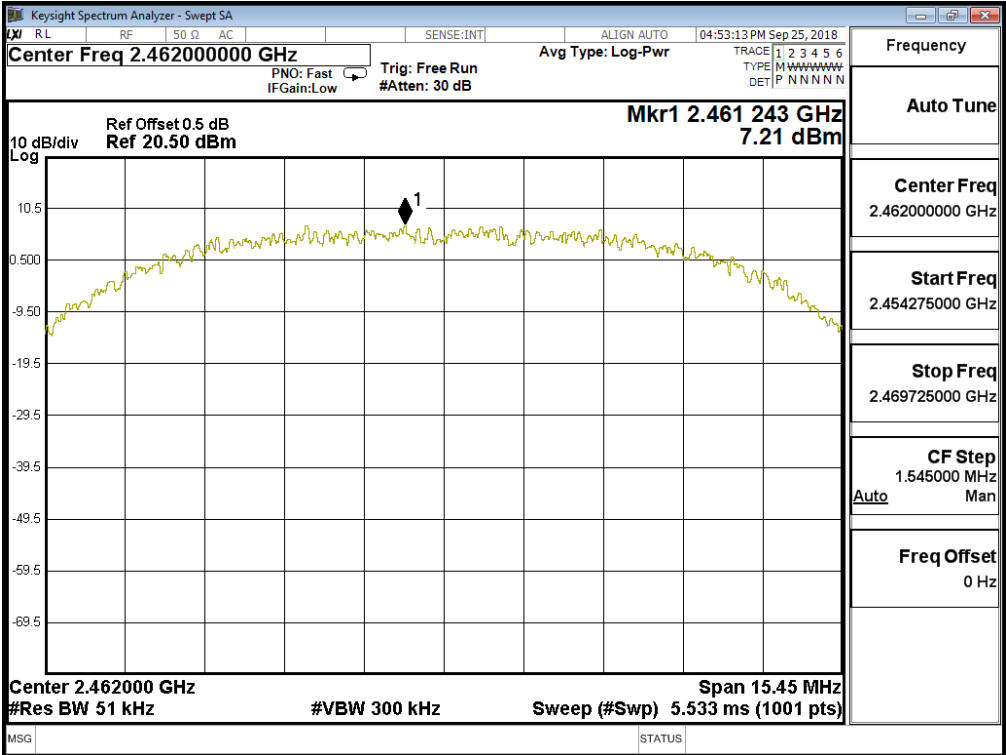


Figure Channel 12:

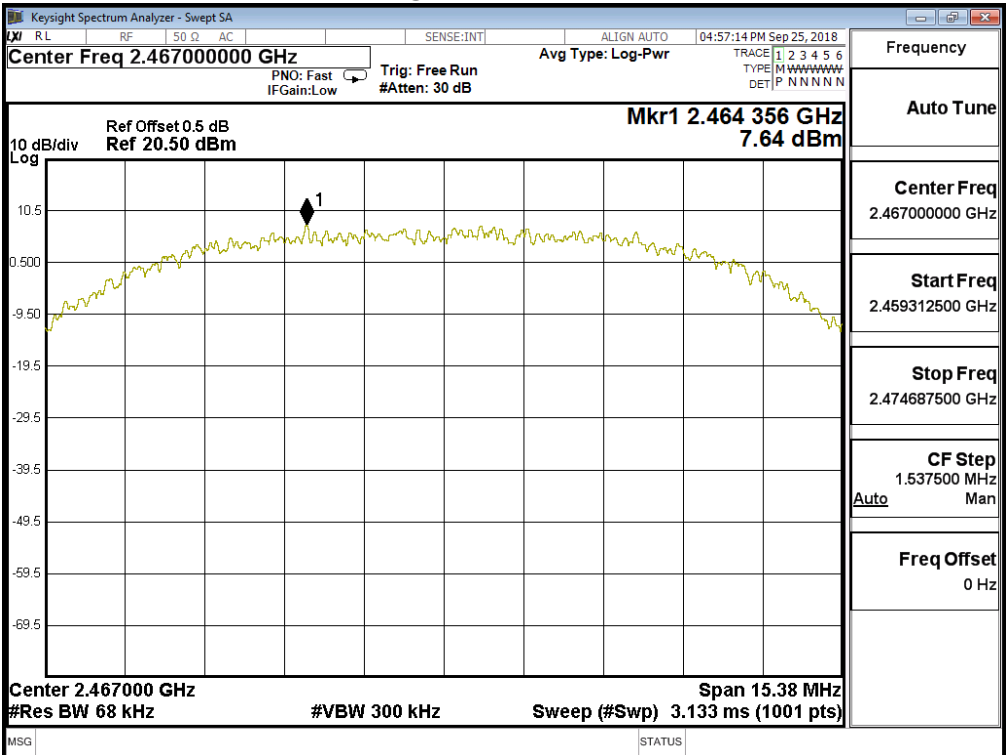
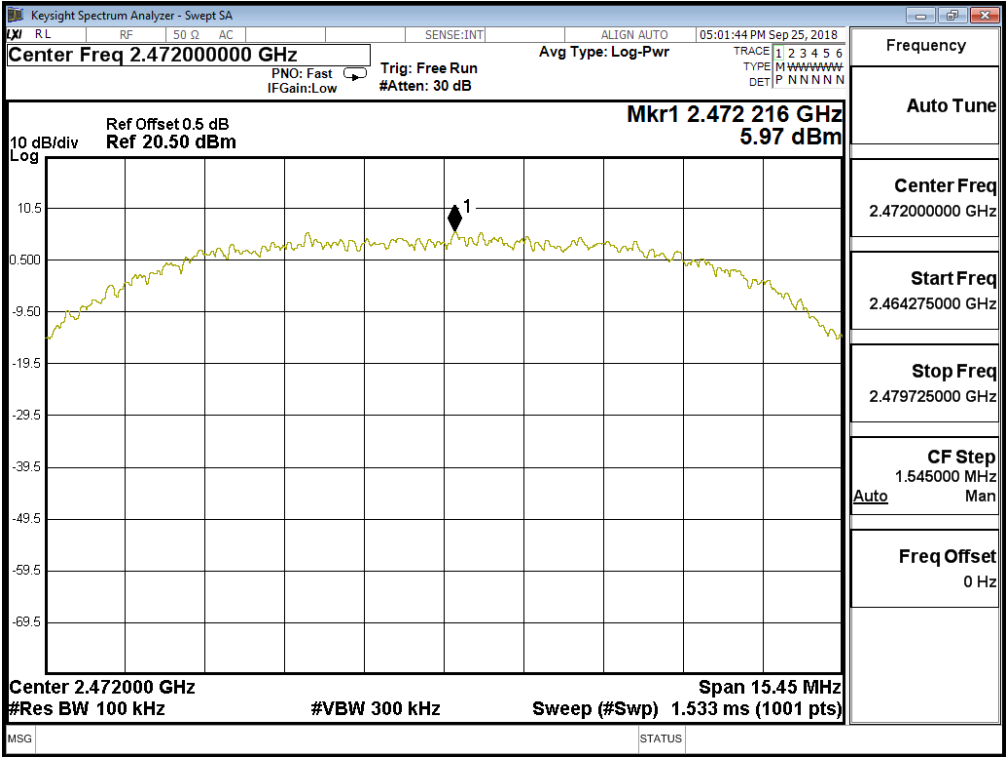


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：功率密度

測試模式：Mode 2: SISO B: 發射器 802.11g

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.96	$\leq 8\text{dBm}$	Pass
07	2442	7.31	$\leq 8\text{dBm}$	Pass
11	2462	7.13	$\leq 8\text{dBm}$	Pass
12	2467	4.08	$\leq 8\text{dBm}$	Pass
13	2472	-10.9	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

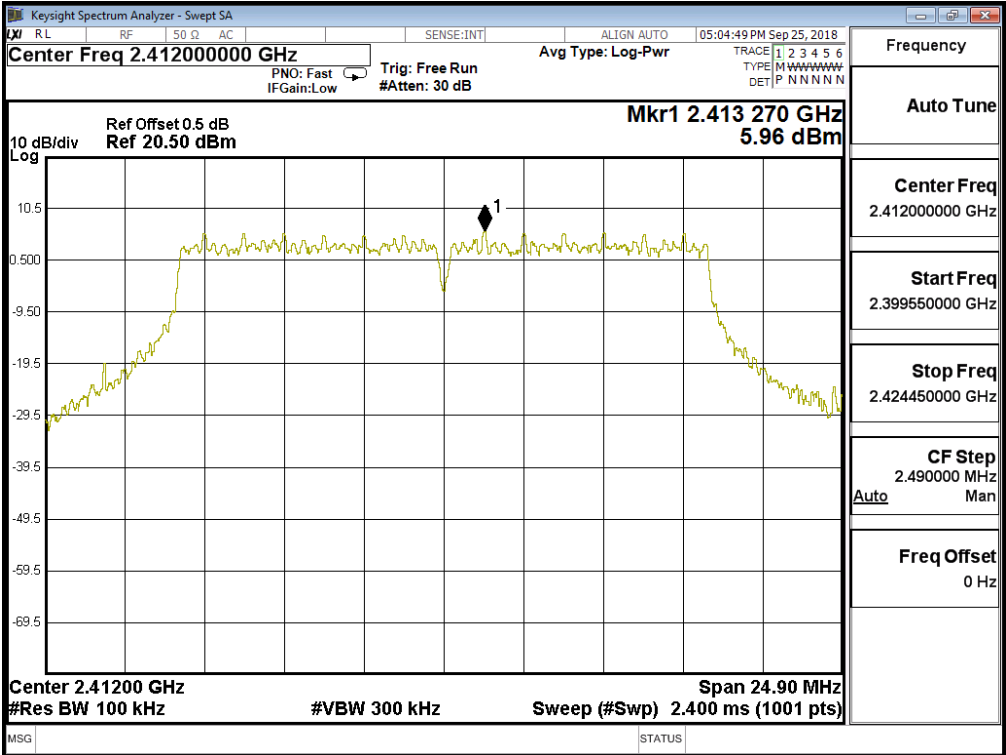


Figure Channel 07:

