

Figure Channel 11:

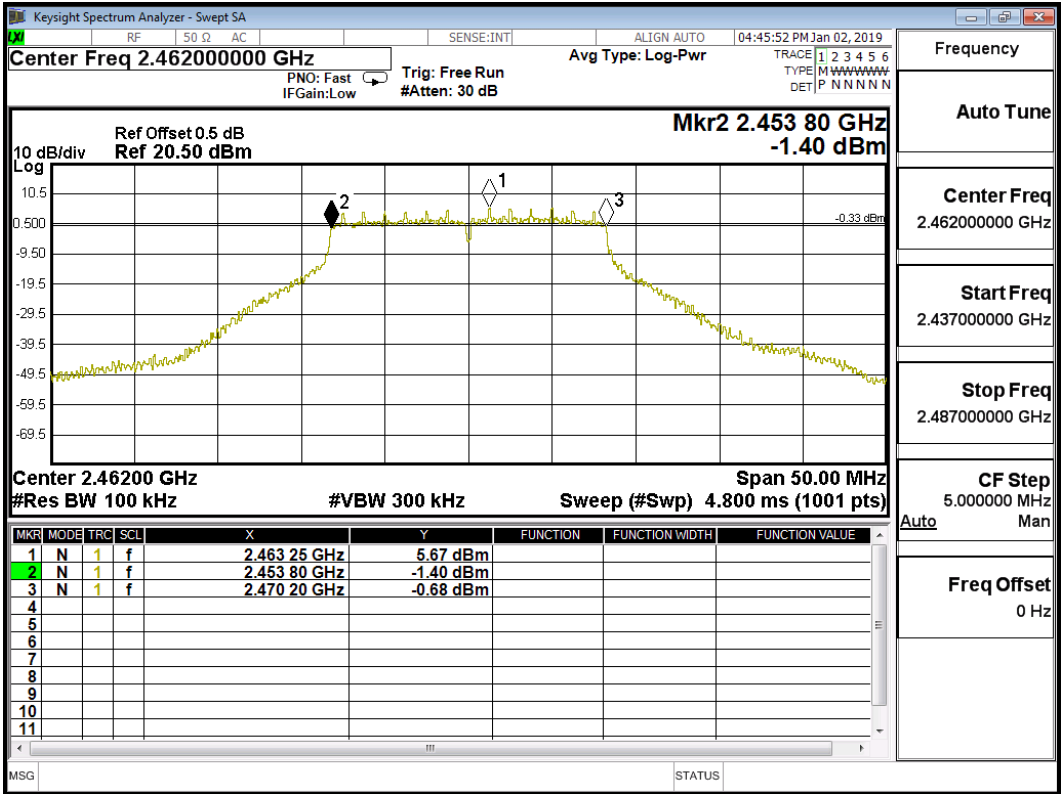


Figure Channel 12:

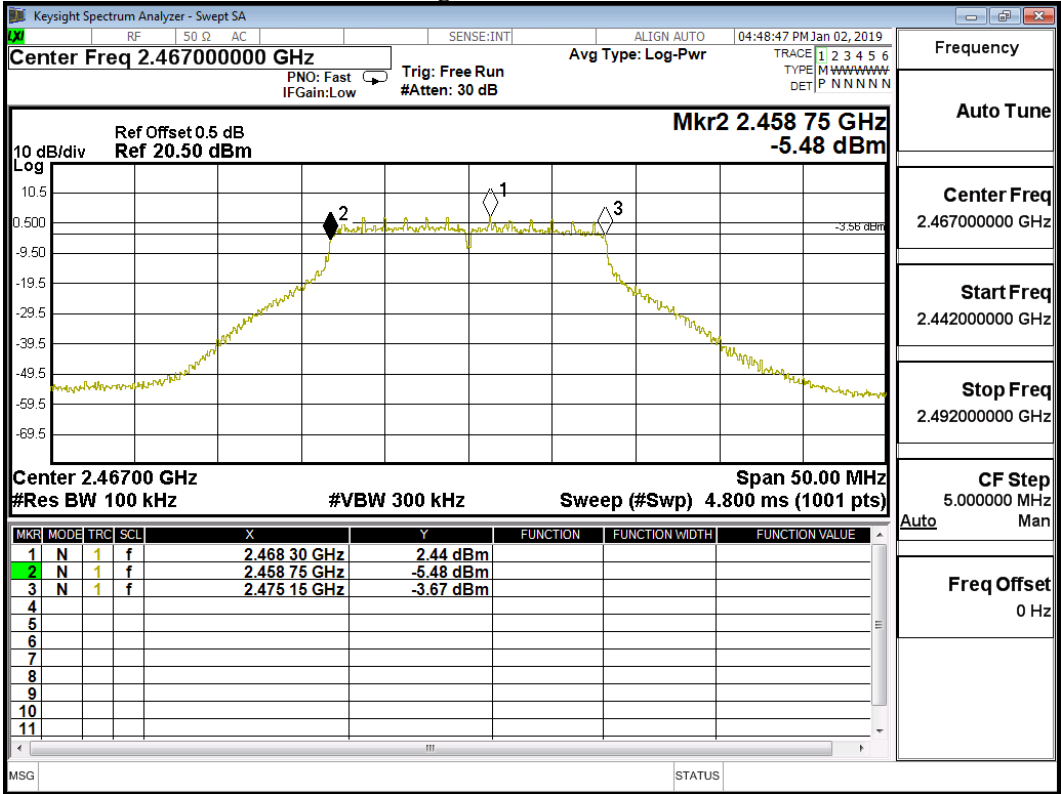
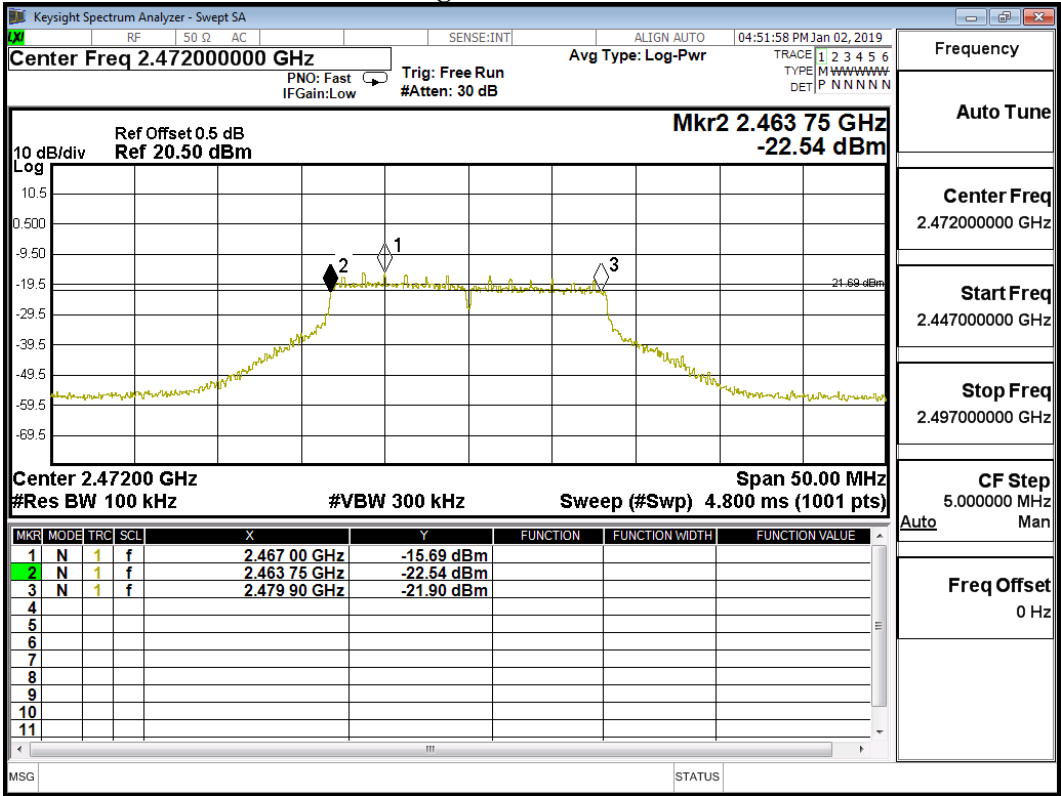


Figure Channel 13:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年01月02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	17700	>500	Pass
07	2442	17700	>500	Pass
11	2462	17400	>500	Pass
12	2467	16650	>500	Pass
13	2472	17300	>500	Pass

Figure Channel 01:

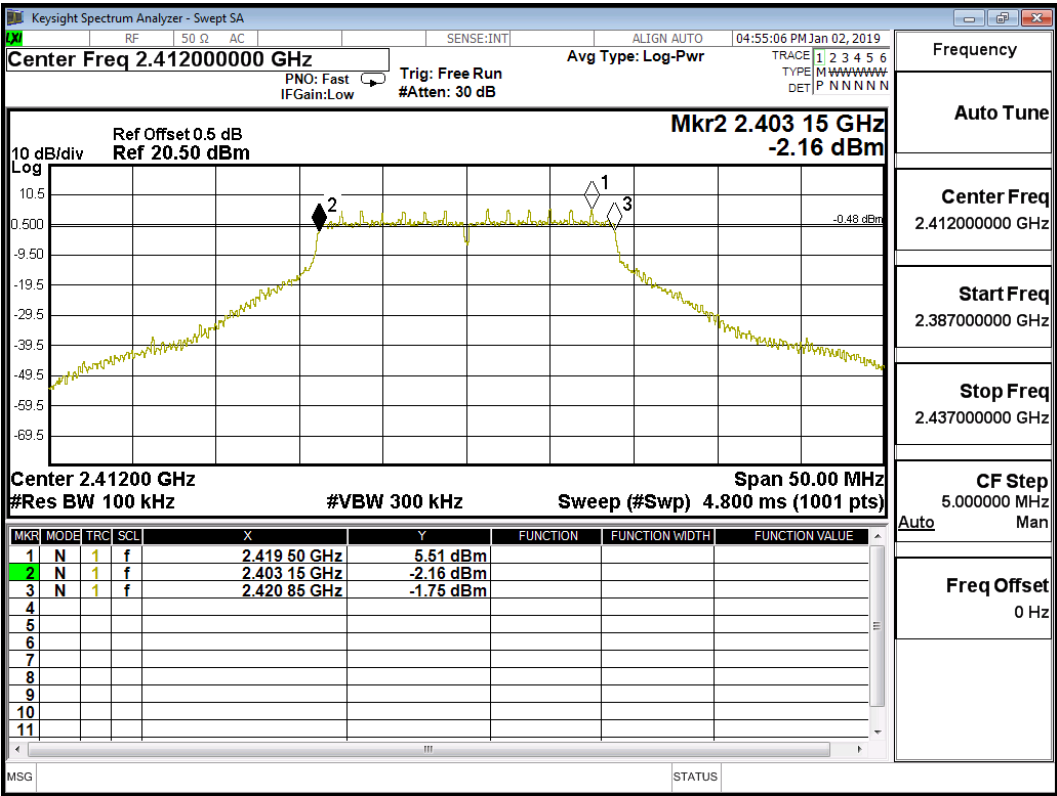


Figure Channel 07:

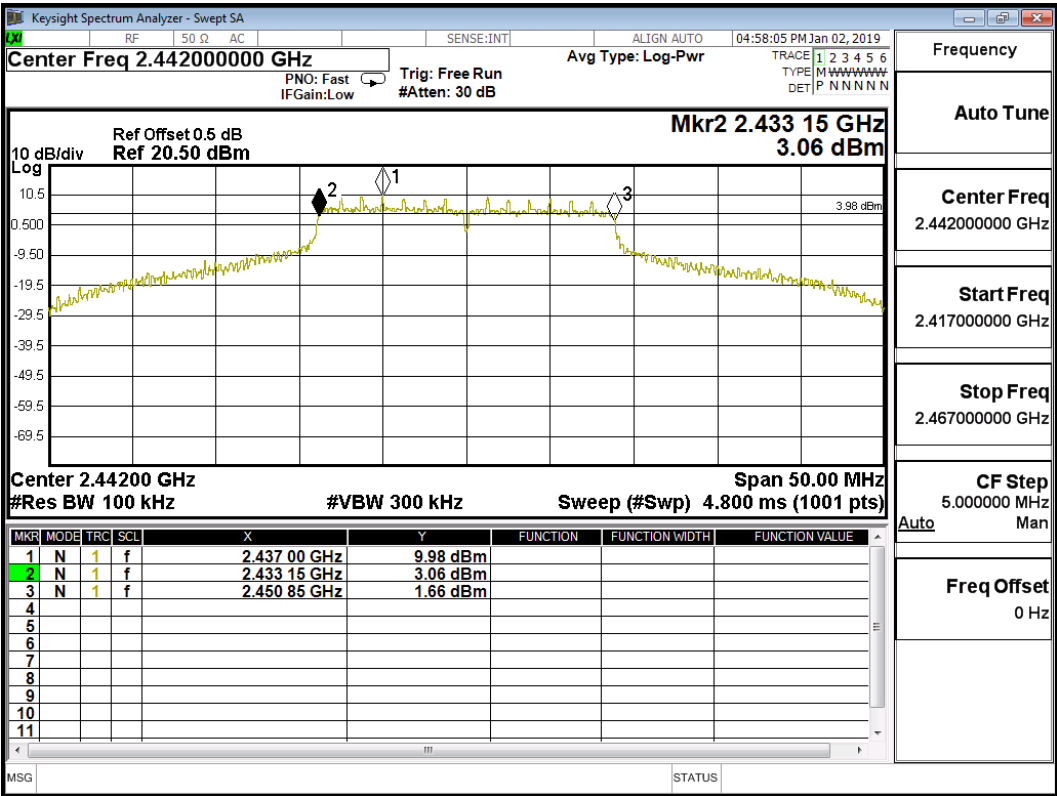


Figure Channel 11:

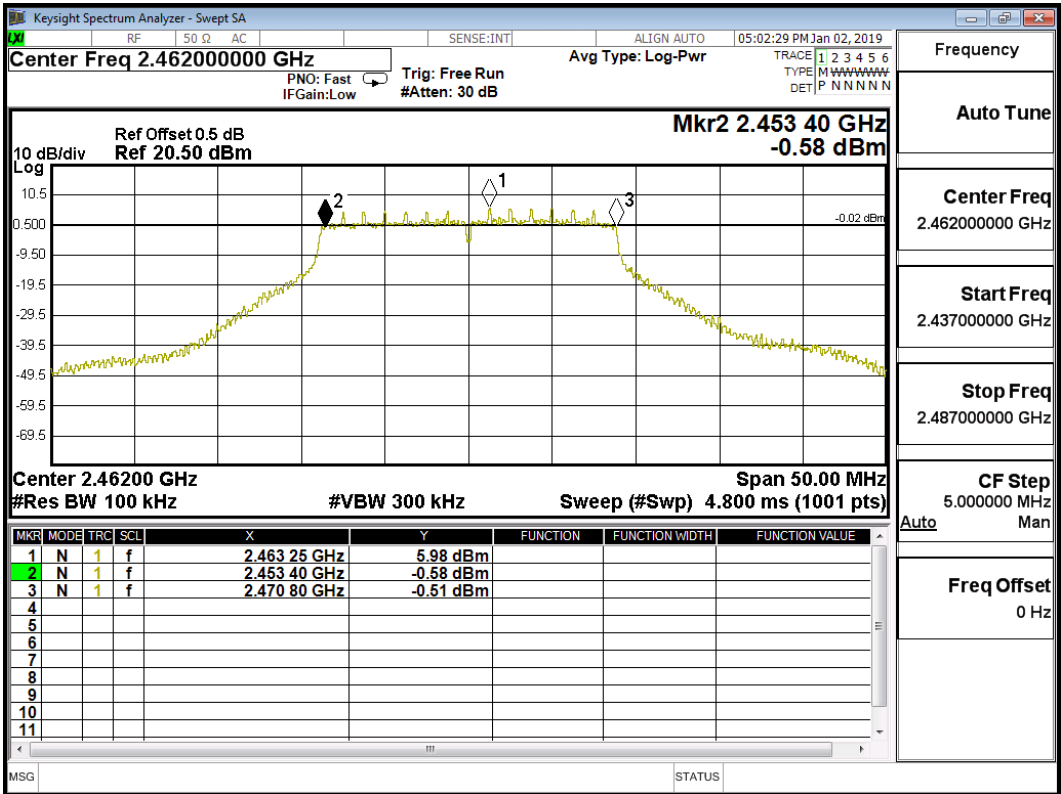


Figure Channel 12:

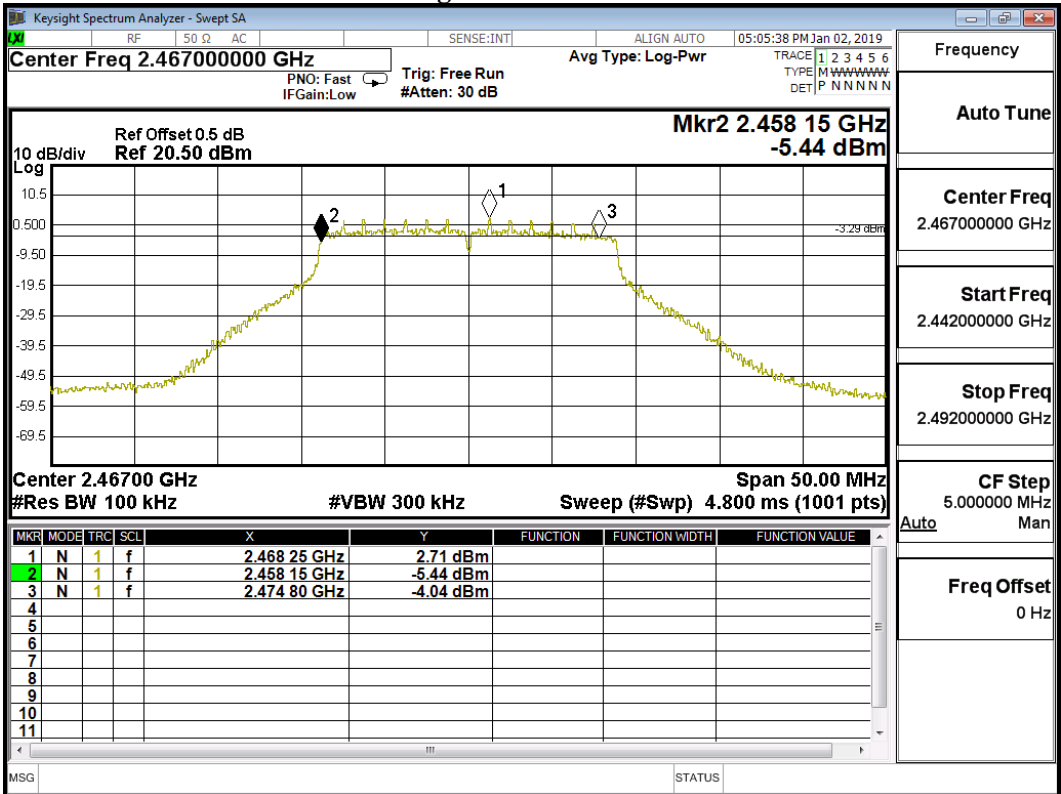
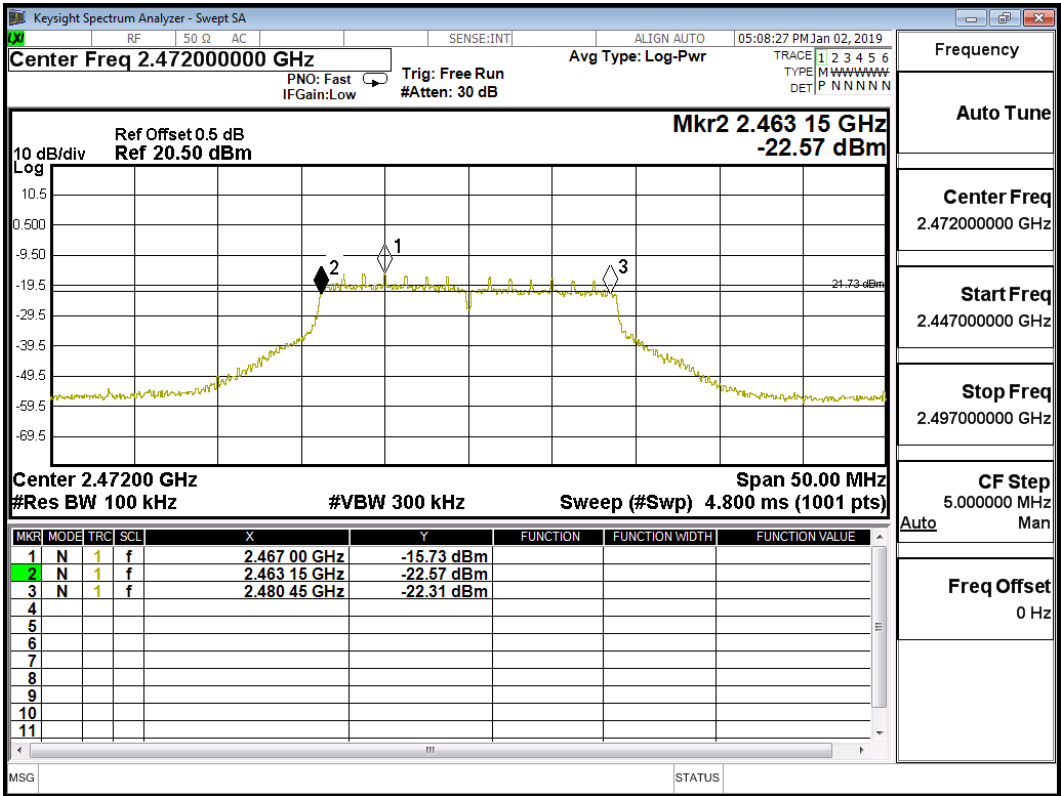


Figure Channel 13:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年01月02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	36400	>500	Pass
07	2442	36500	>500	Pass
09	2452	36500	>500	Pass
10	2457	36100	>500	Pass
11	2462	35800	>500	Pass

Figure Channel 03:

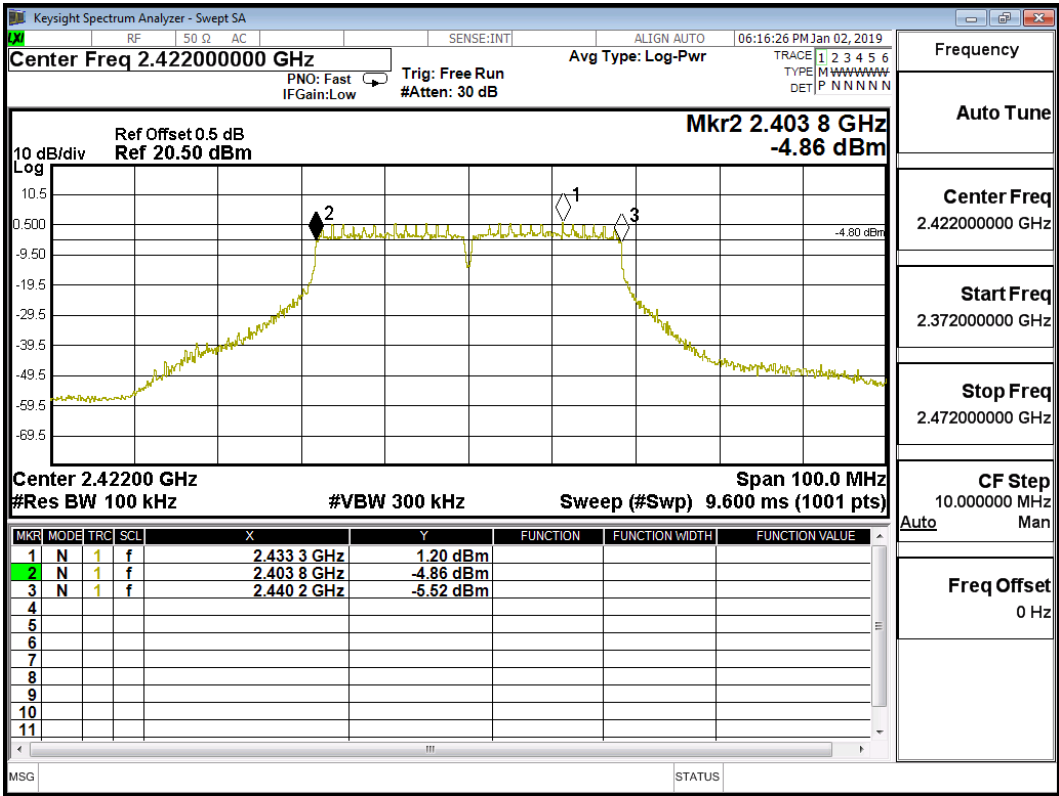


Figure Channel 07:

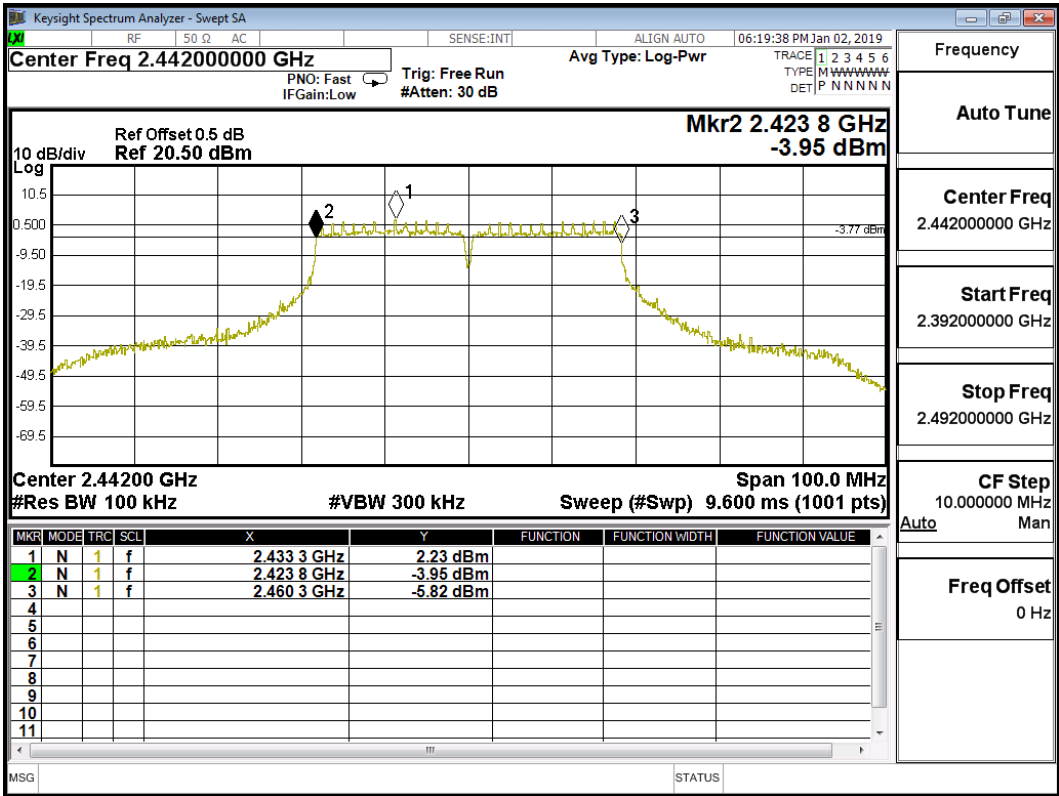


Figure Channel 09:

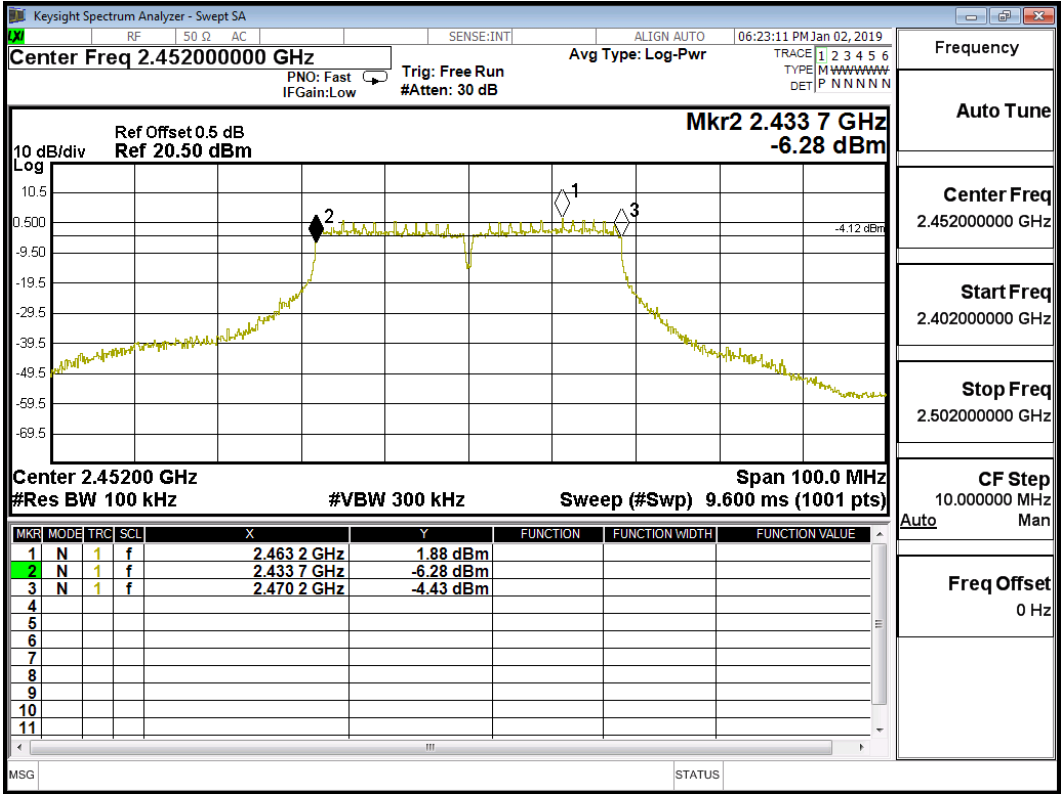


Figure Channel 10:

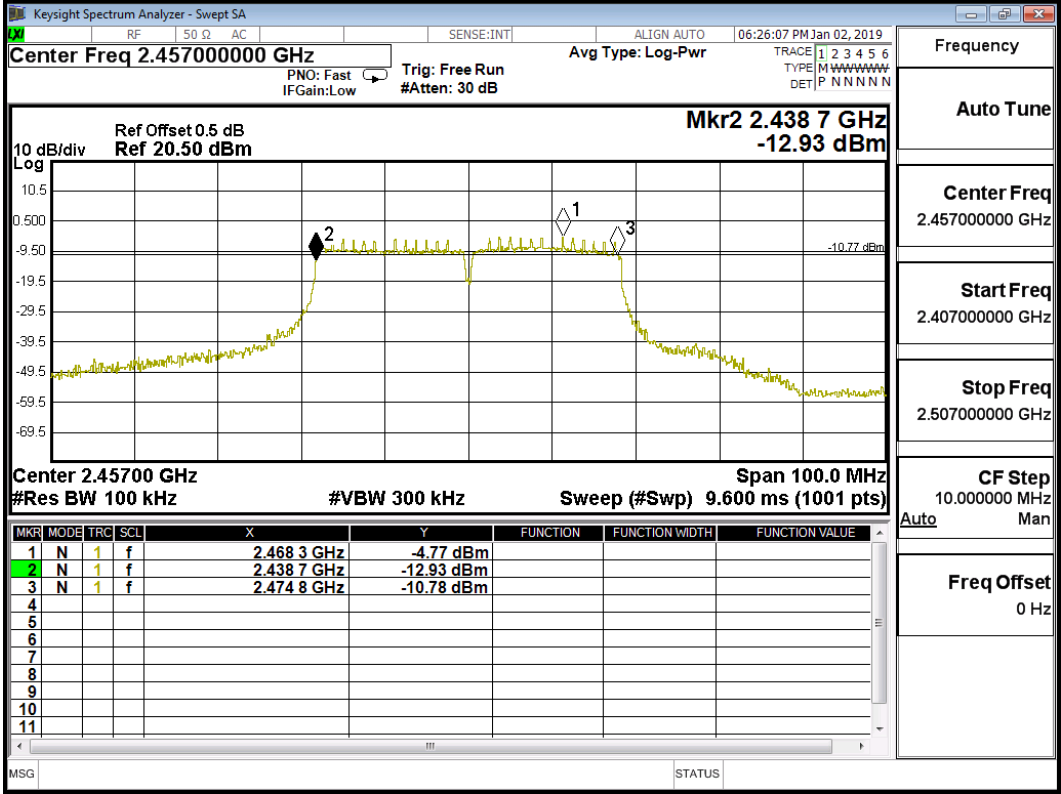
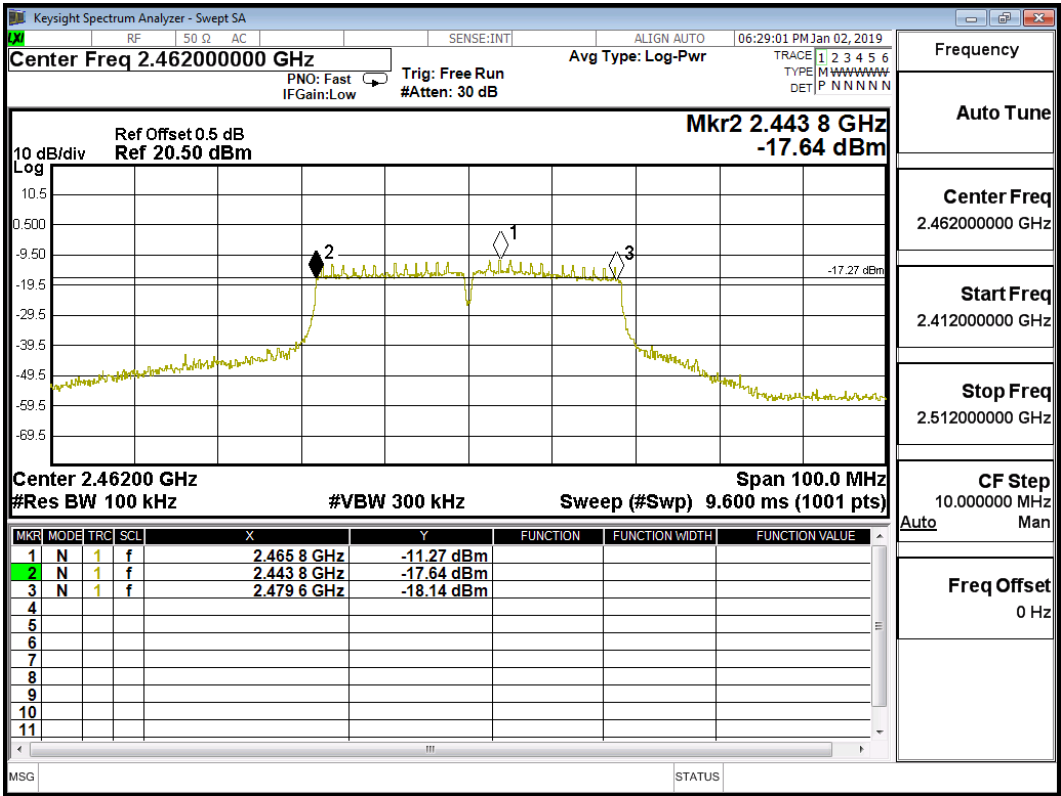


Figure Channel 11:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年01月04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	17700	>500	Pass
07	2442	A	17650	>500	Pass
11	2462	A	17400	>500	Pass
12	2467	A	17050	>500	Pass
13	2472	A	17650	>500	Pass
01	2412	B	17700	>500	Pass
07	2442	B	17700	>500	Pass
11	2462	B	17650	>500	Pass
12	2467	B	17650	>500	Pass
13	2472	B	17650	>500	Pass

Figure Channel 01: (Chain A)

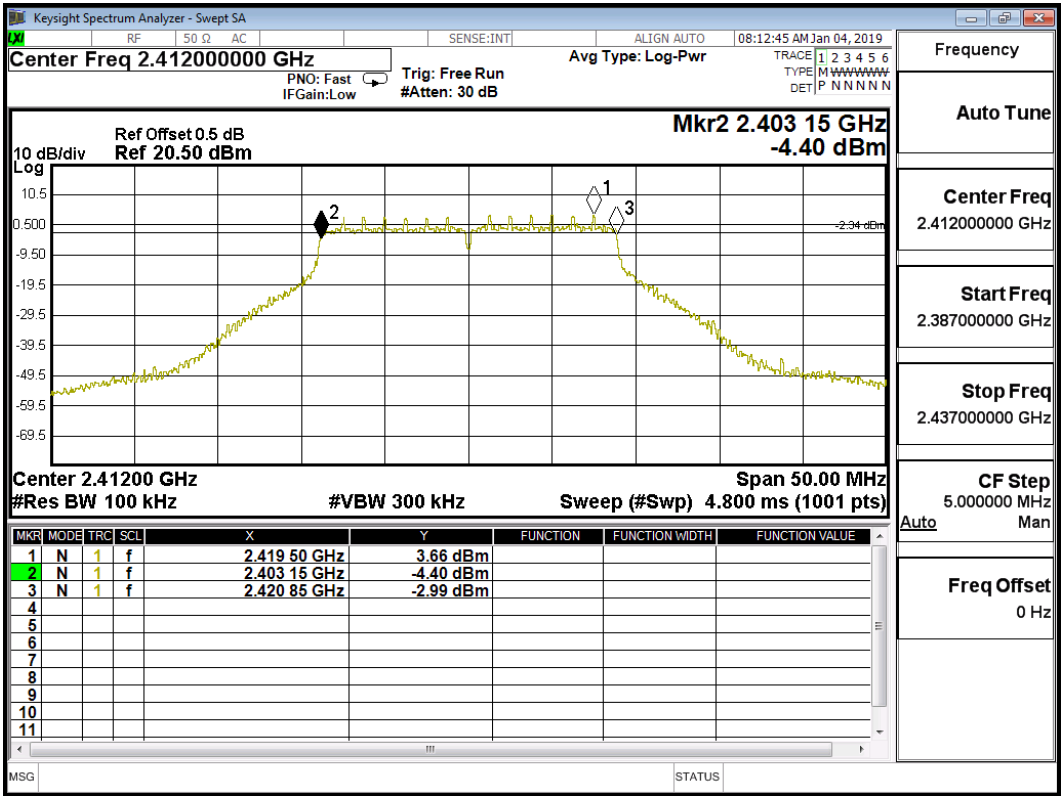


Figure Channel 01: (Chain B)

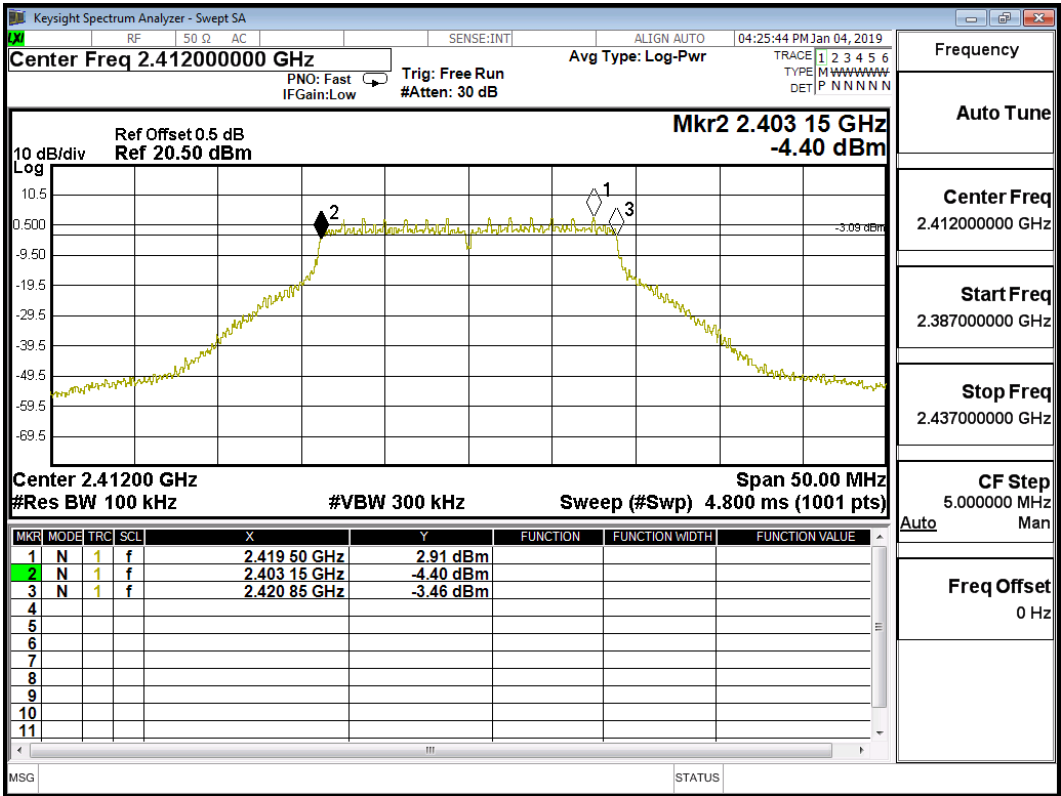


Figure Channel 07: (Chain A)

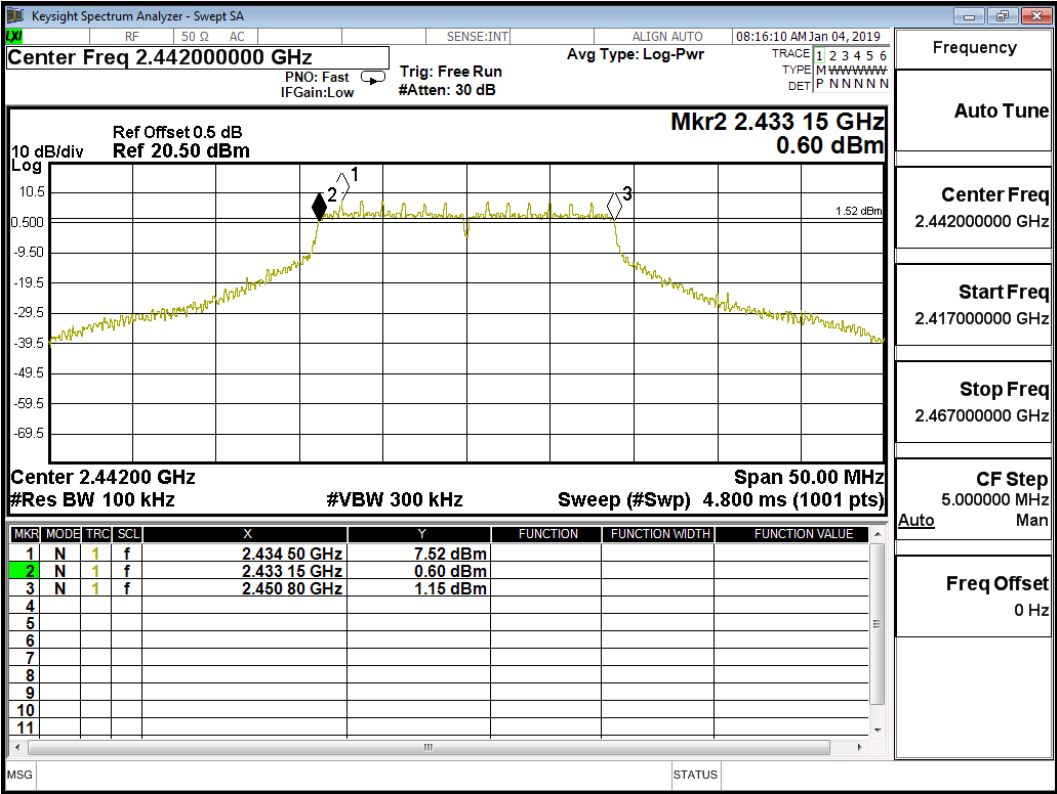


Figure Channel 07: (Chain B)

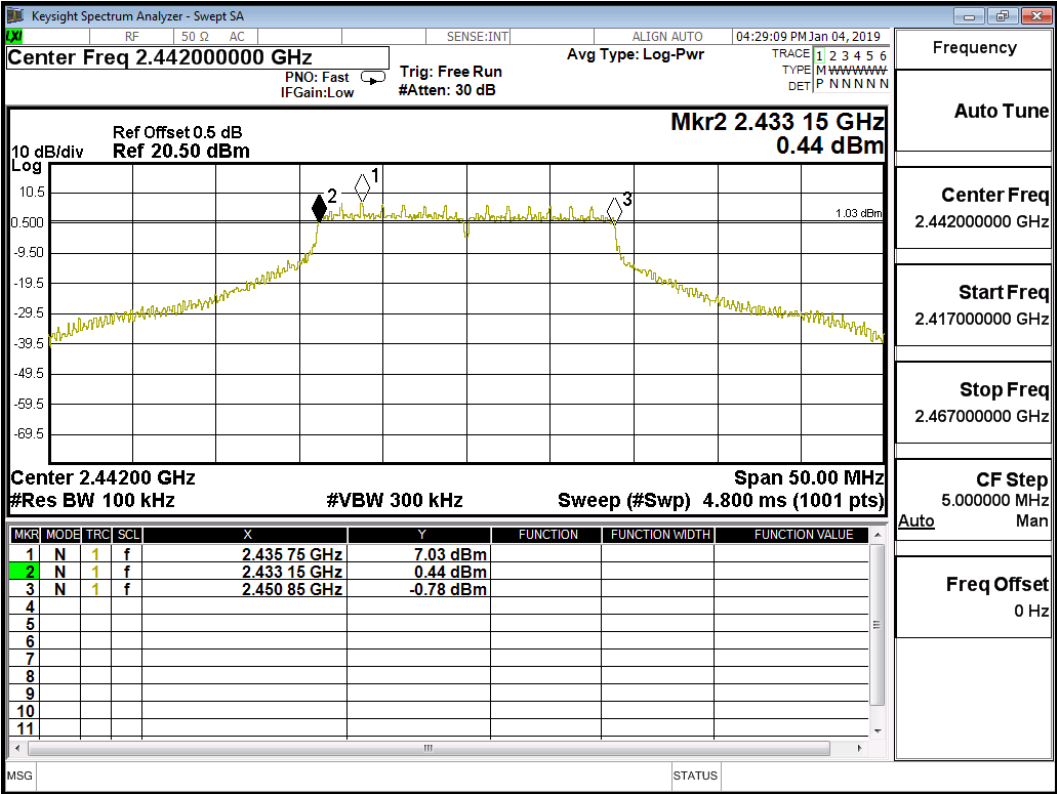


Figure Channel 11: (Chain A)

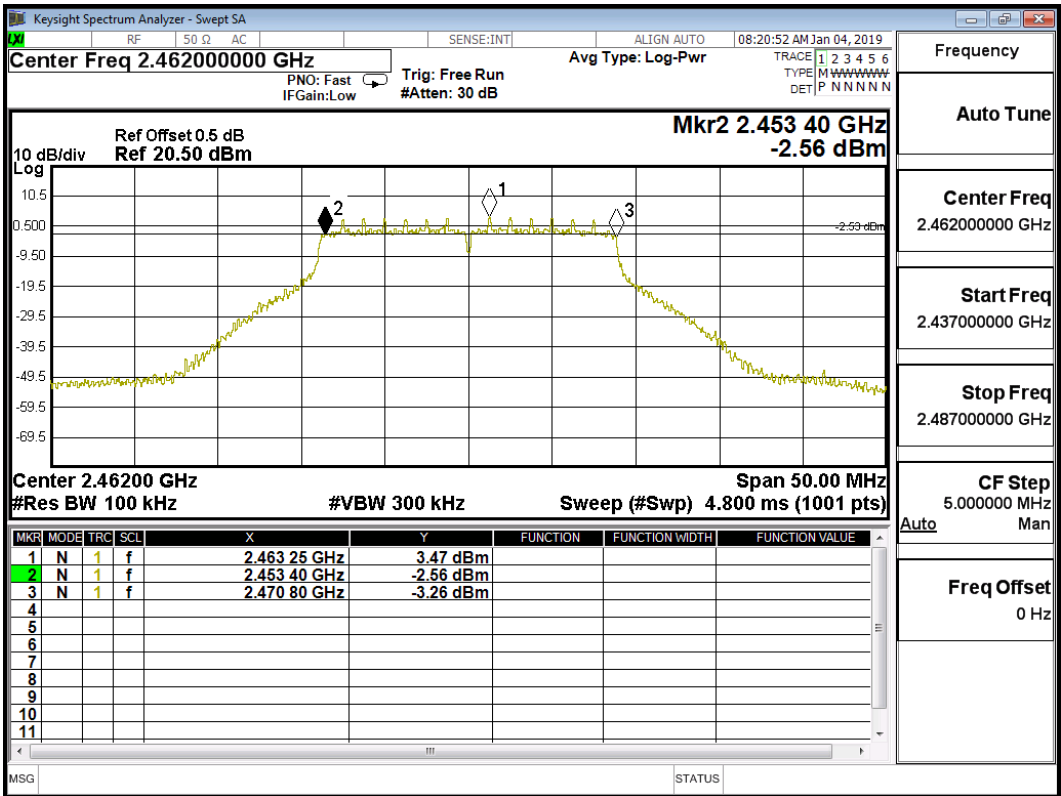


Figure Channel 11: (Chain B)

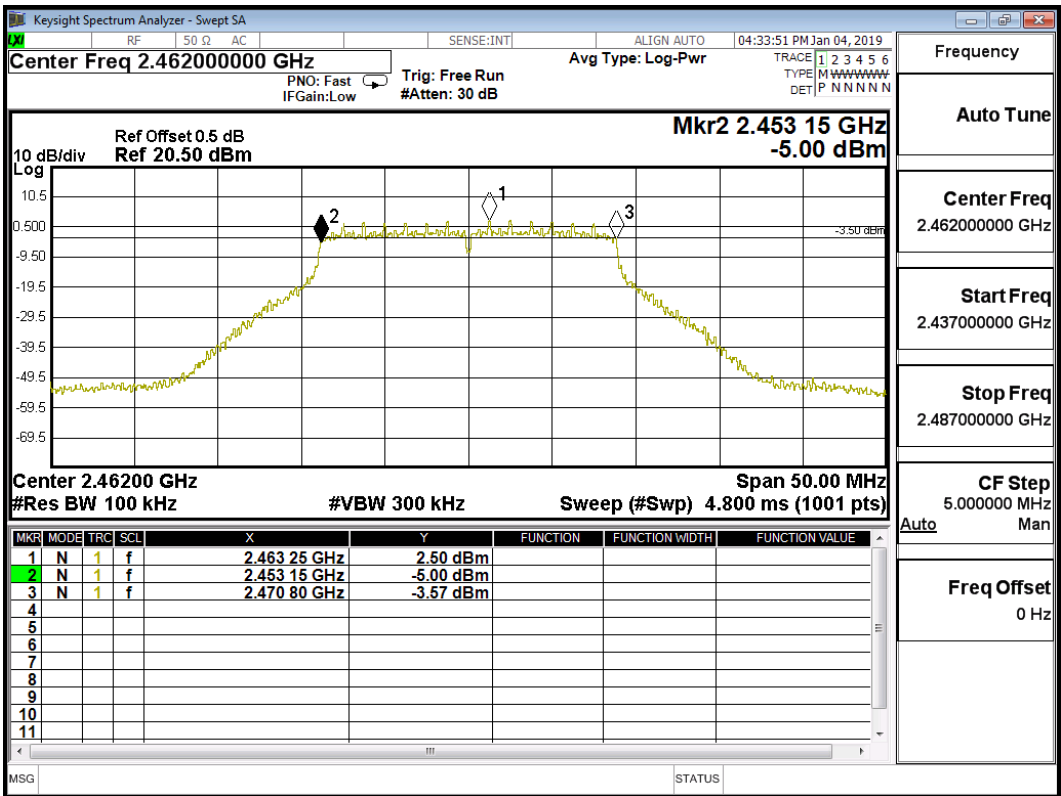


Figure Channel 12: (Chain A)

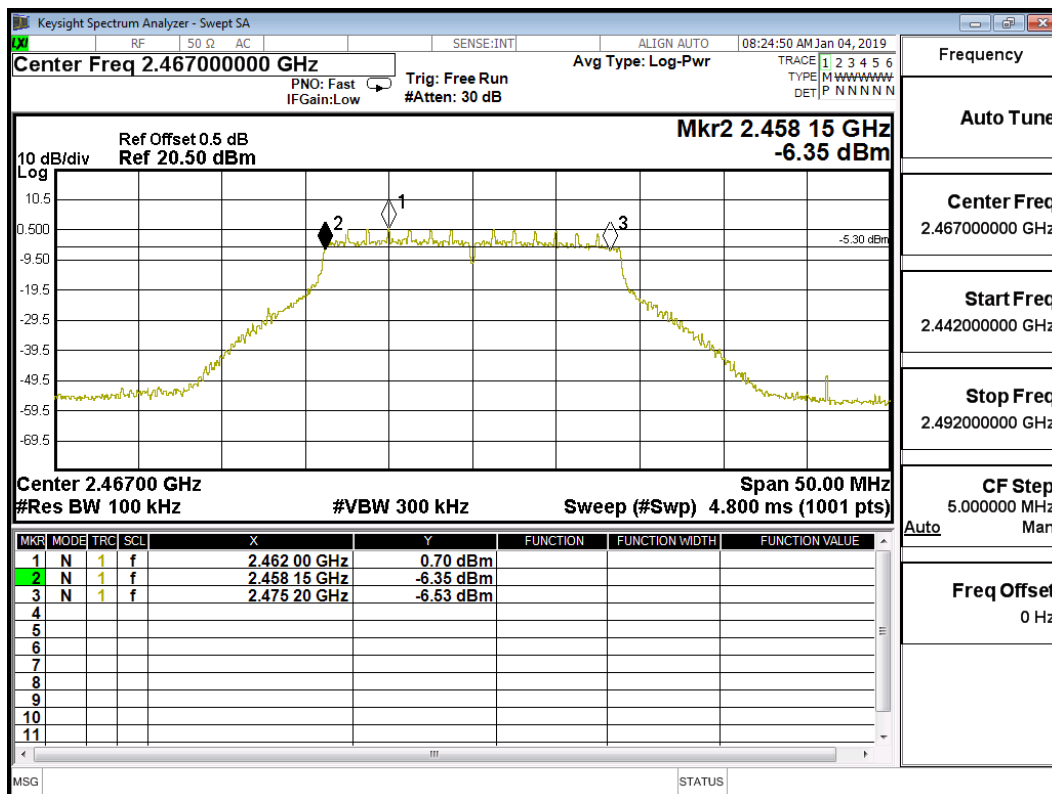


Figure Channel 12: (Chain B)

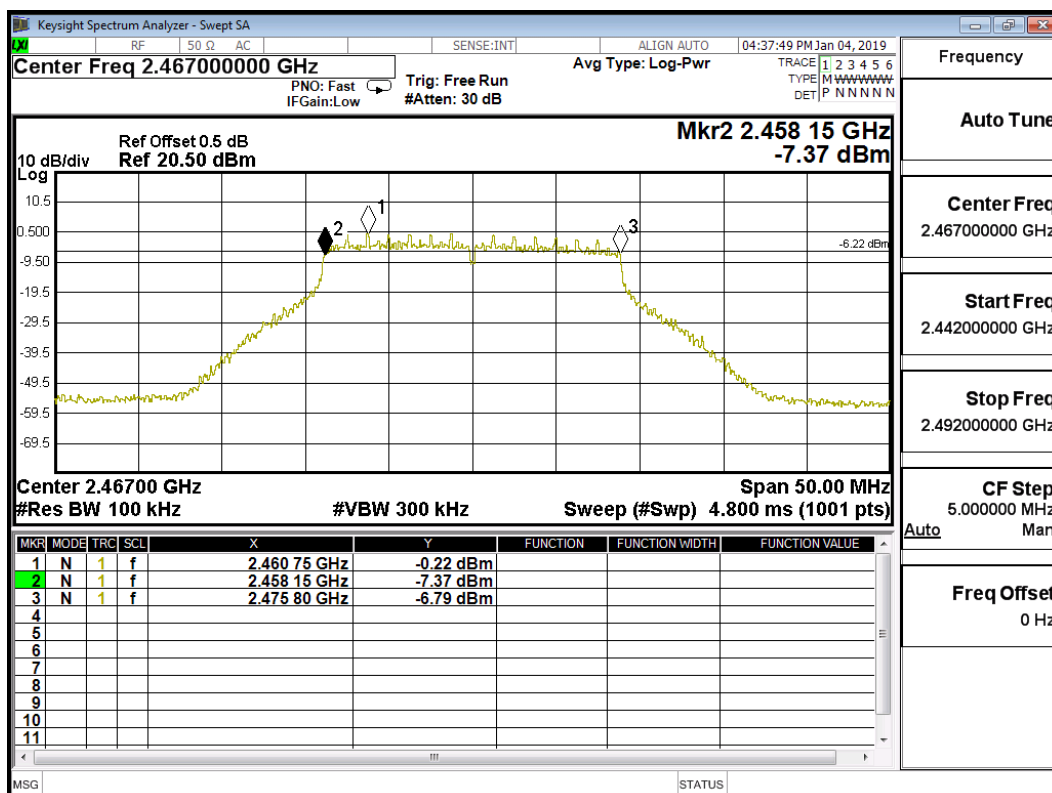


Figure Channel 13: (Chain A)

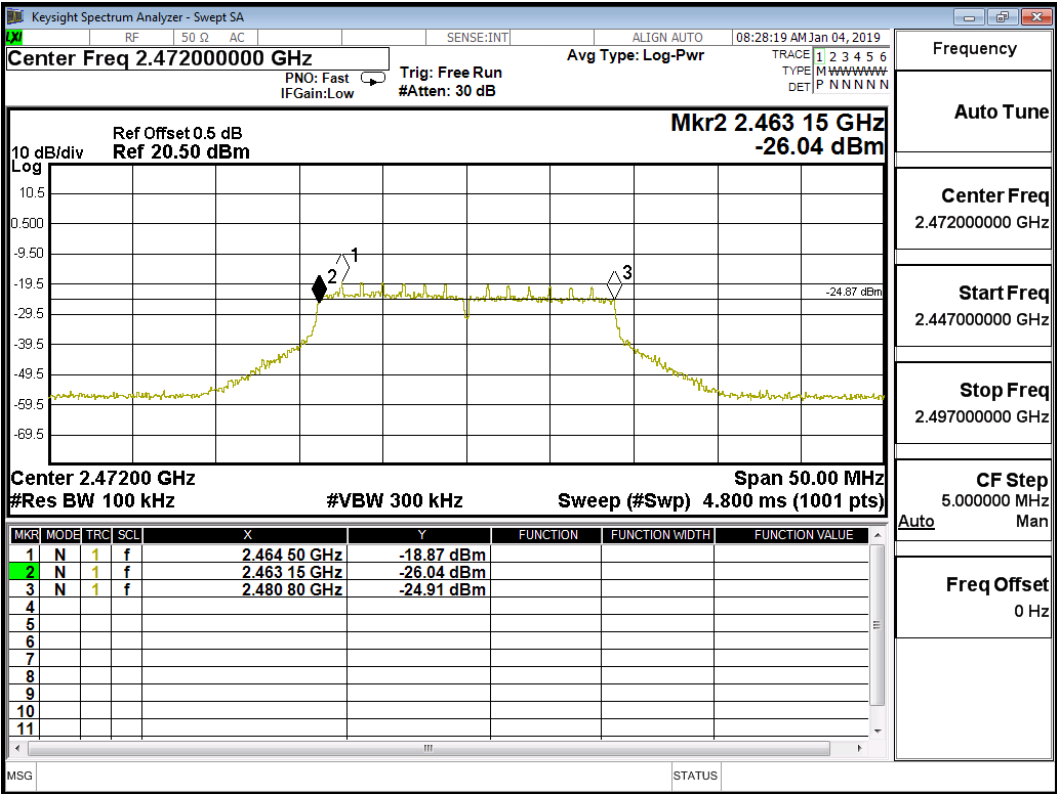
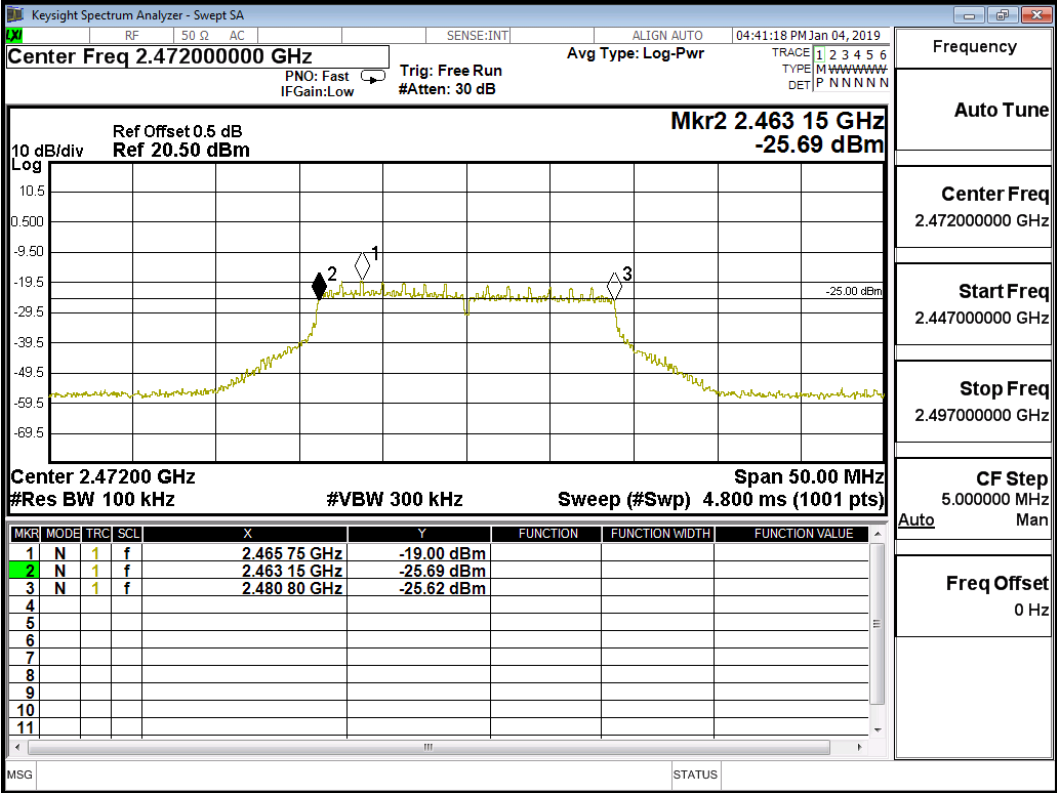


Figure Channel 13: (Chain B)



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年01月04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	36500	>500	Pass
07	2442	A	36600	>500	Pass
09	2452	A	36300	>500	Pass
10	2457	A	36100	>500	Pass
11	2462	A	36200	>500	Pass
03	2422	B	36500	>500	Pass
07	2442	B	36600	>500	Pass
09	2452	B	36600	>500	Pass
10	2457	B	36500	>500	Pass
11	2462	B	36000	>500	Pass

Figure Channel 03: (Chain A)

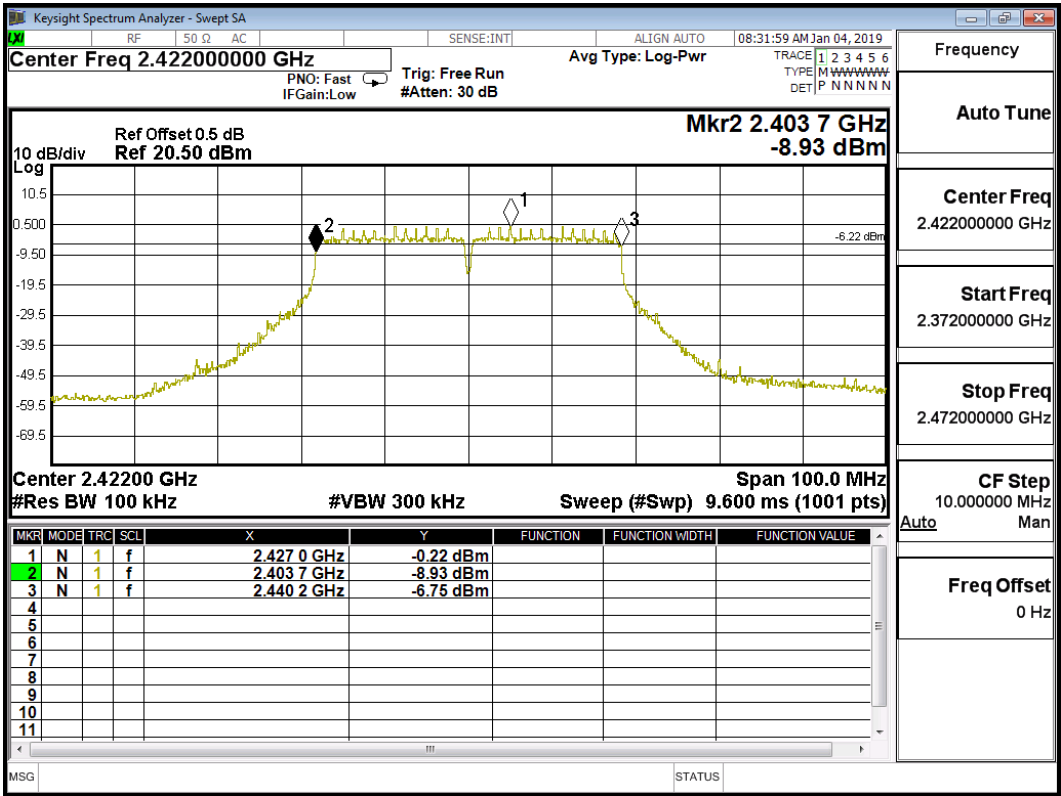


Figure Channel 03: (Chain B)

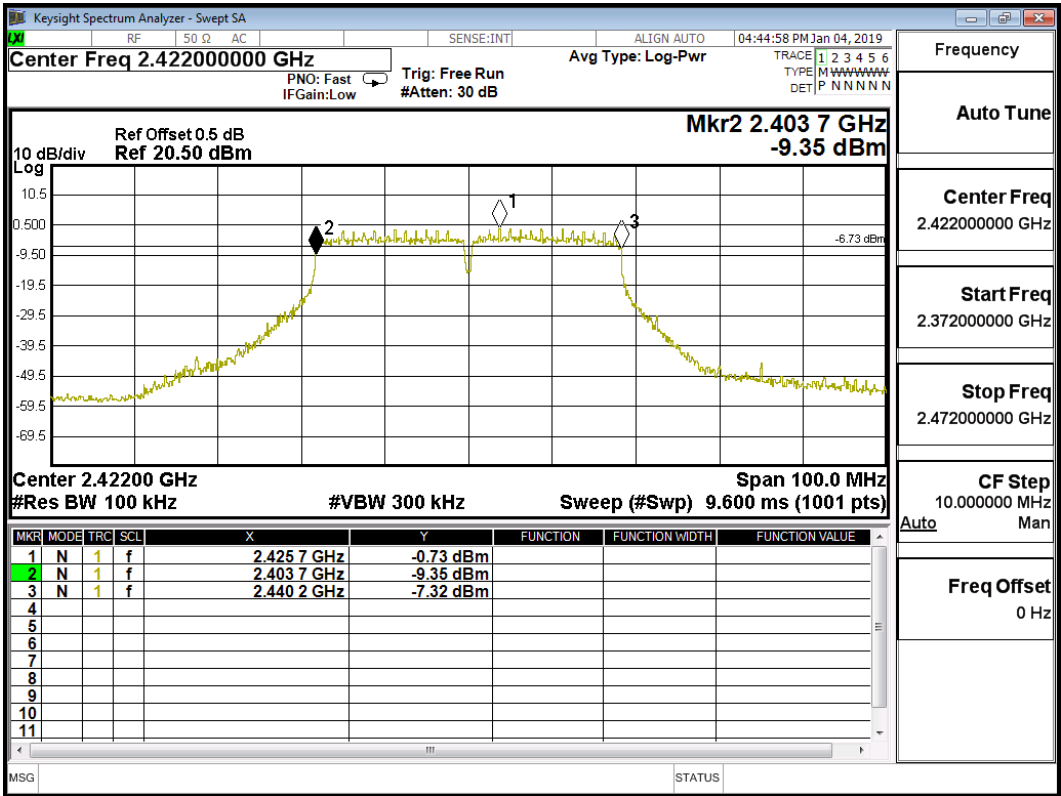


Figure Channel 07: (Chain A)

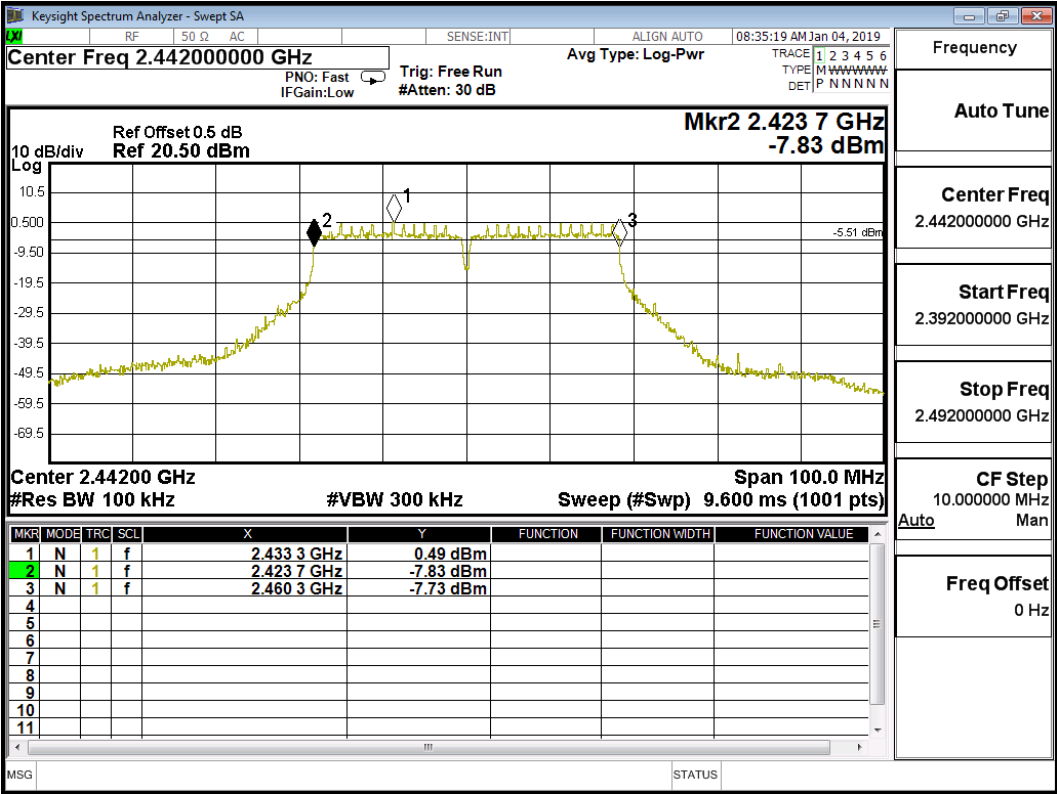


Figure Channel 07: (Chain B)

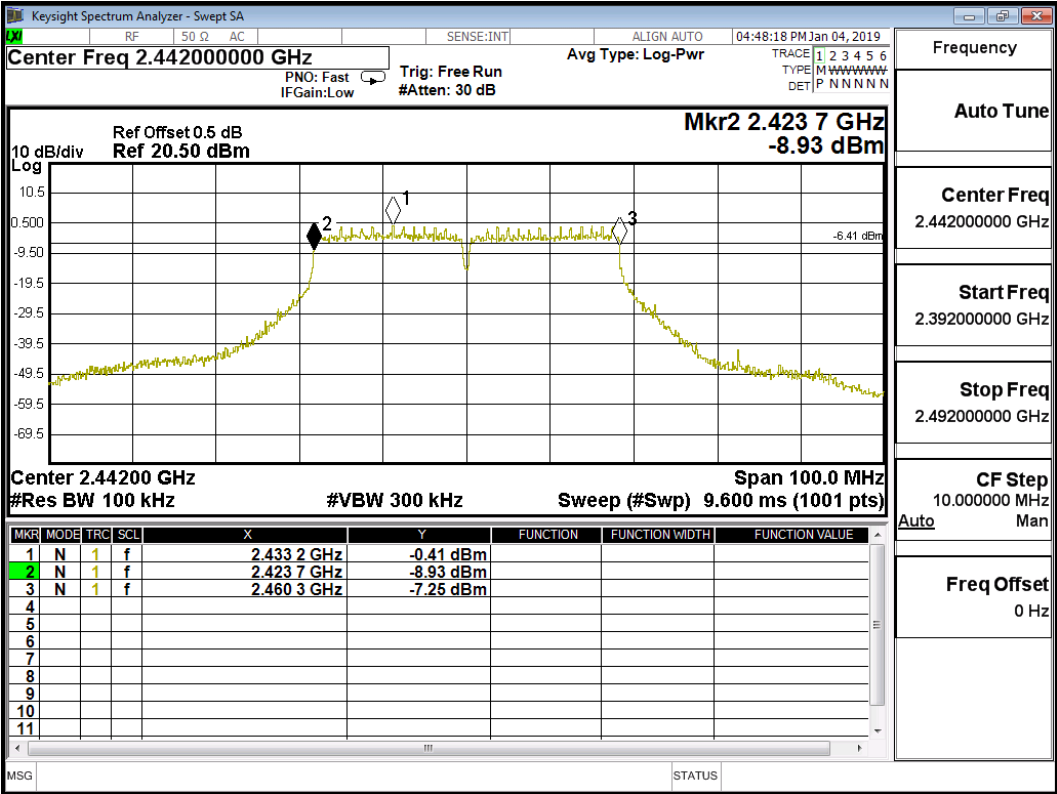


Figure Channel 09: (Chain A)

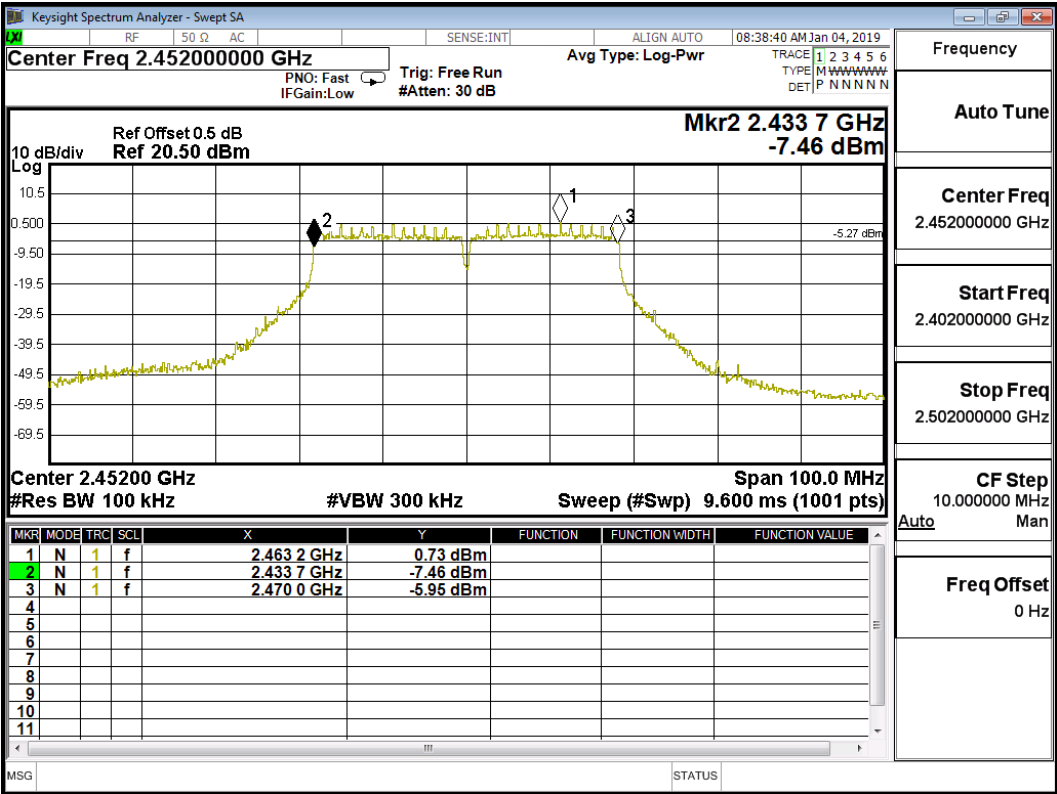


Figure Channel 09: (Chain B)

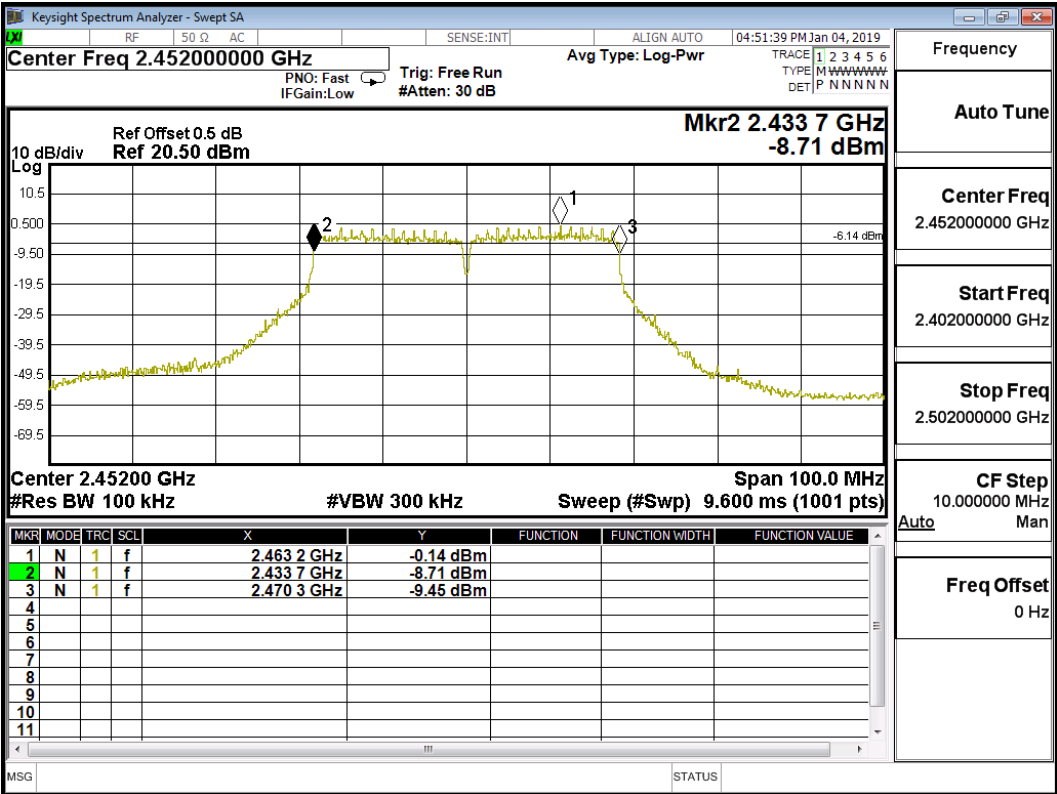


Figure Channel 10: (Chain A)

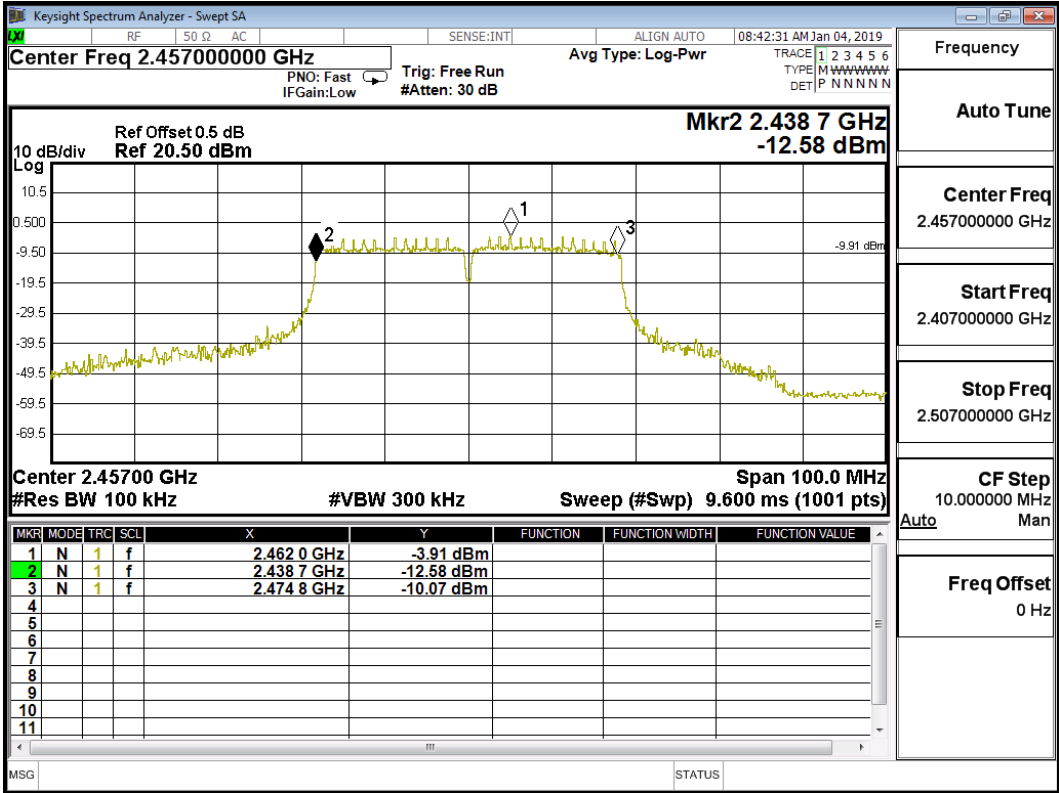


Figure Channel 10: (Chain B)

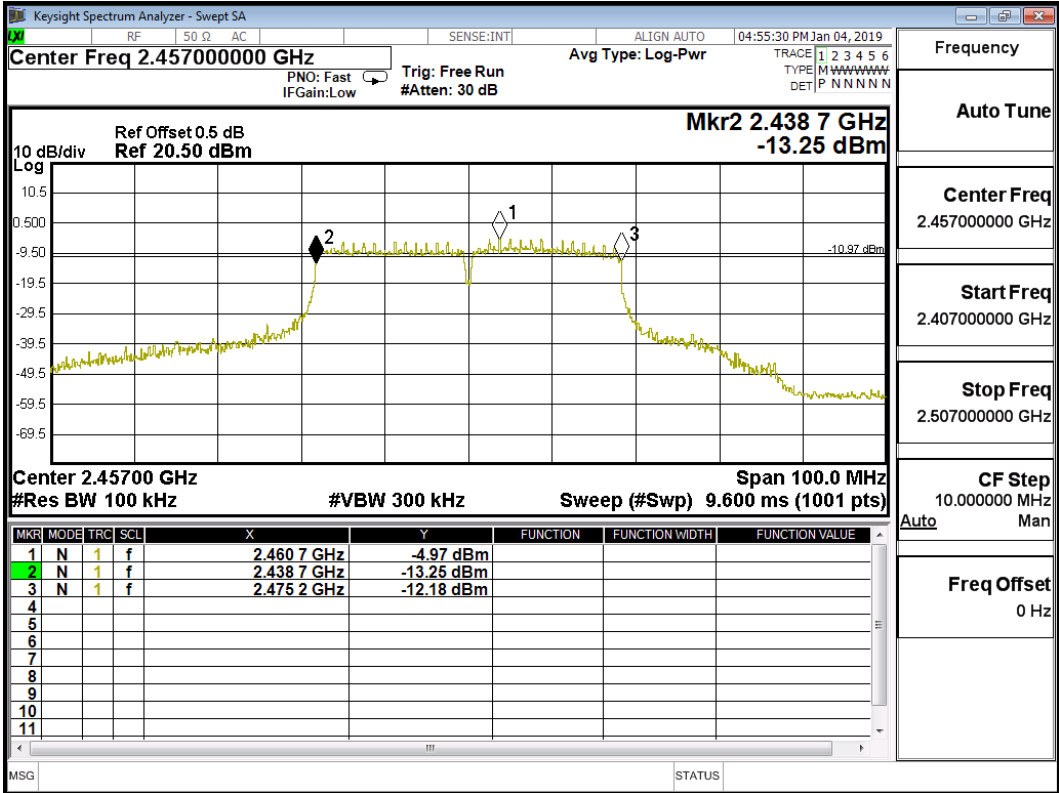


Figure Channel 11: (Chain A)

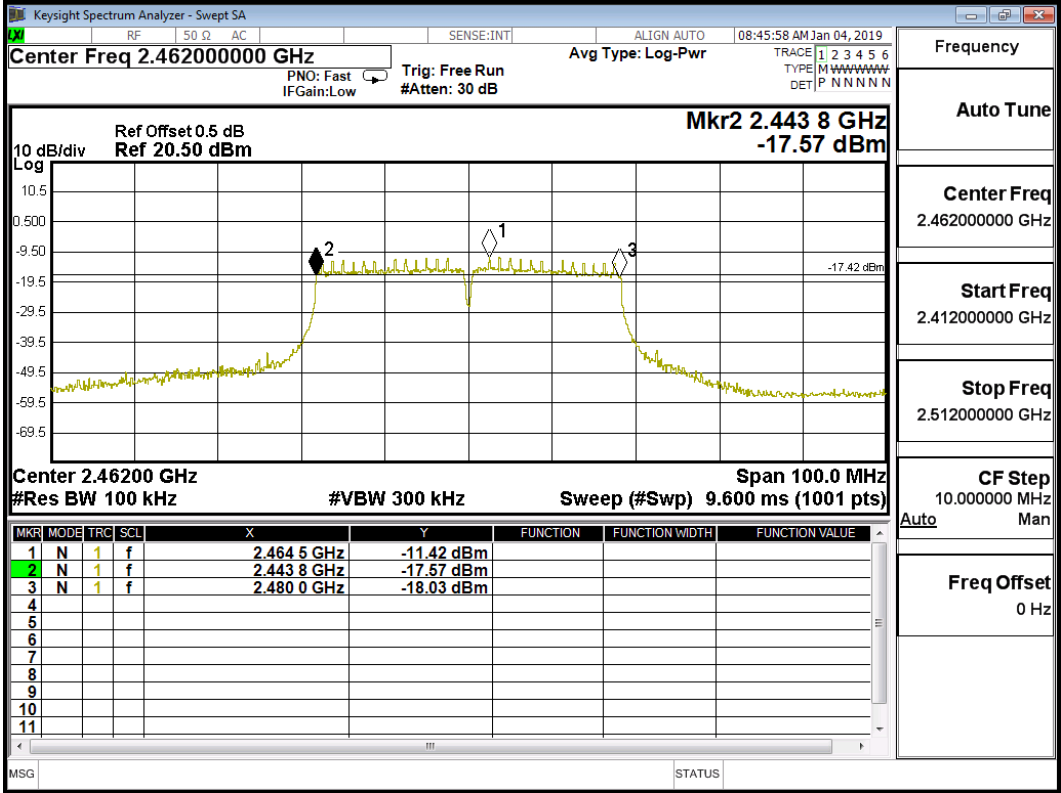
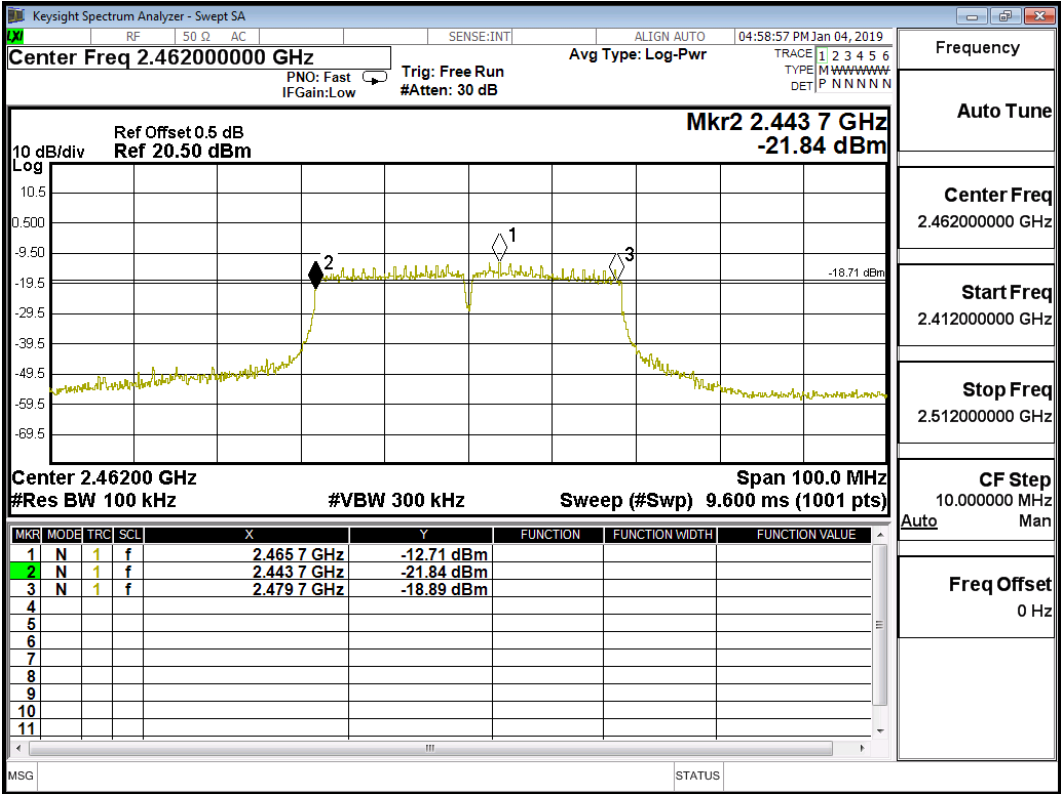


Figure Channel 11: (Chain B)



佔用頻道寬度測試結果:

PASS

10. 發射電功率密度

10.1. 適用標準

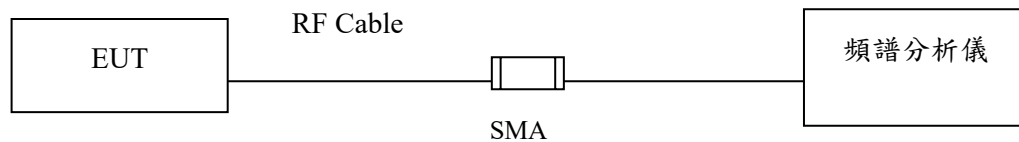
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6 節，在使用頻率範圍之任意 3 千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm，且應依 3.10.1.3 之方式降低功率頻譜密度限制值。

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® Wireless-AC 9260

待測物型號：9260D2WL

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：107年12月28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	7.3	$\leq 8\text{dBm}$	Pass
07	2442	7.89	$\leq 8\text{dBm}$	Pass
11	2462	7.02	$\leq 8\text{dBm}$	Pass
12	2467	7.98	$\leq 8\text{dBm}$	Pass
13	2472	5.19	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

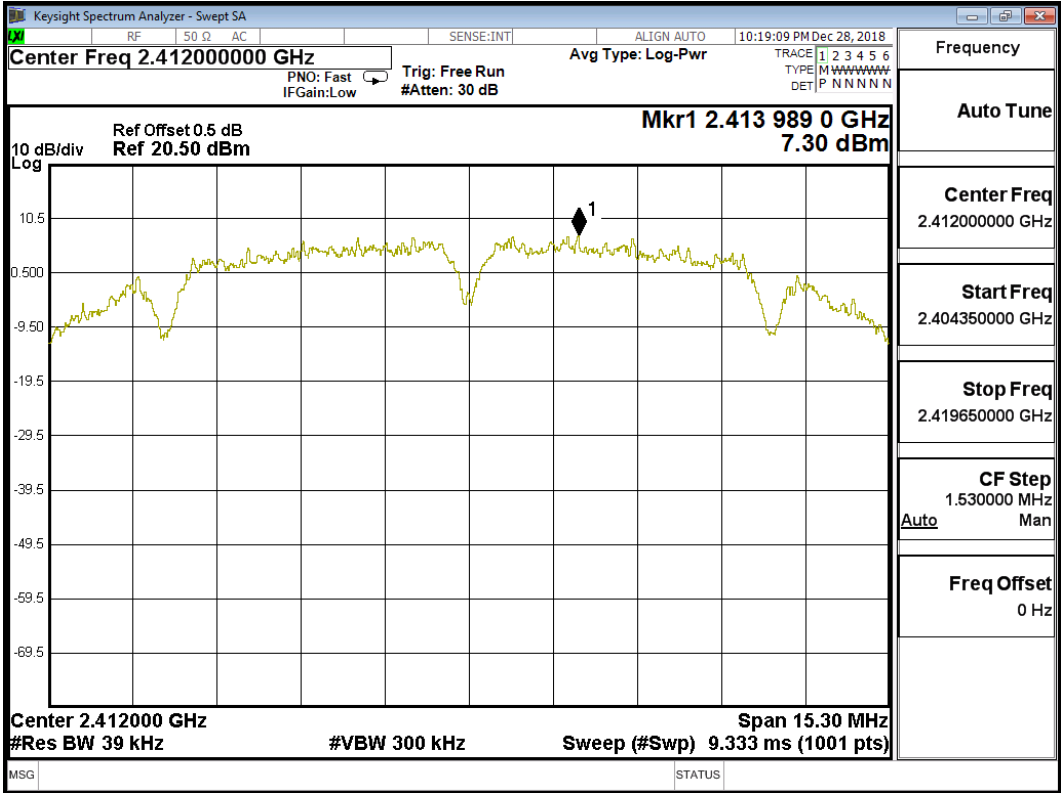


Figure Channel 07:

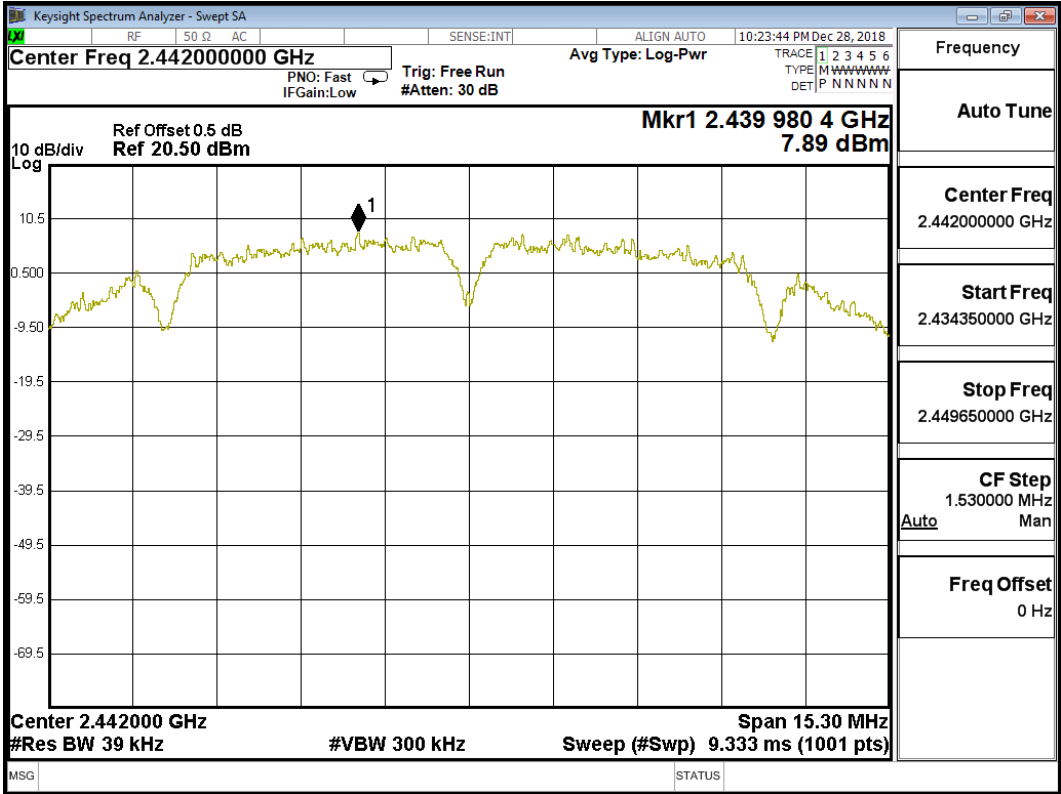


Figure Channel 11:

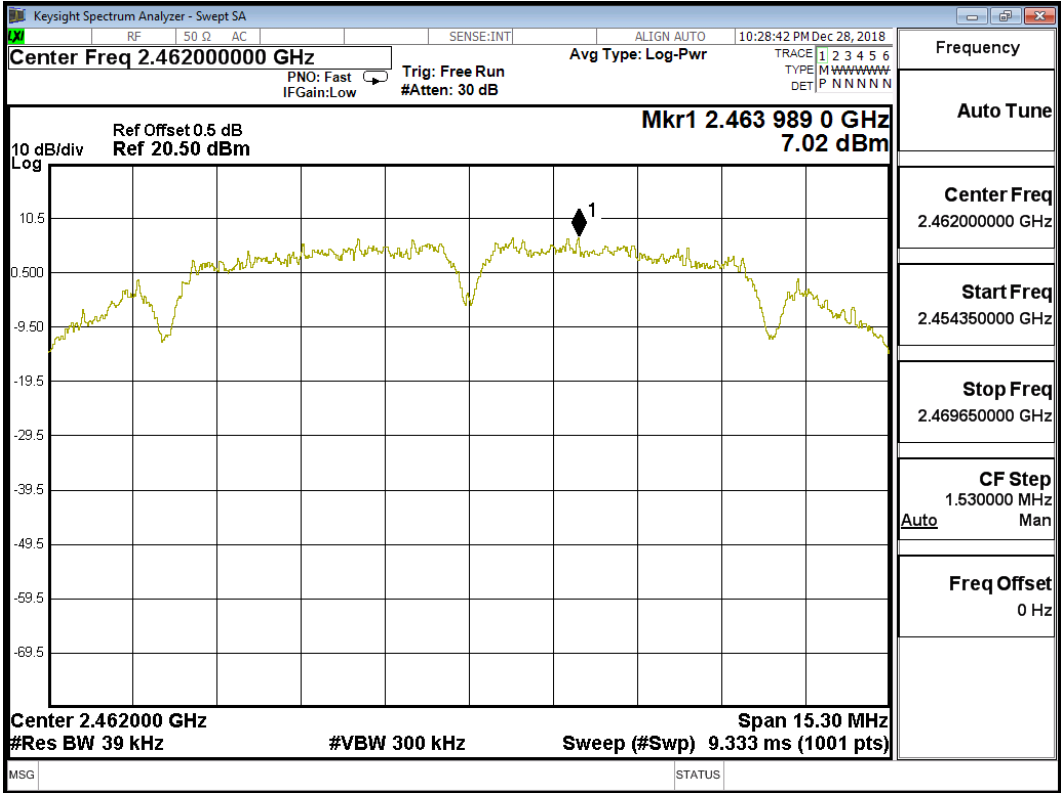


Figure Channel 12:

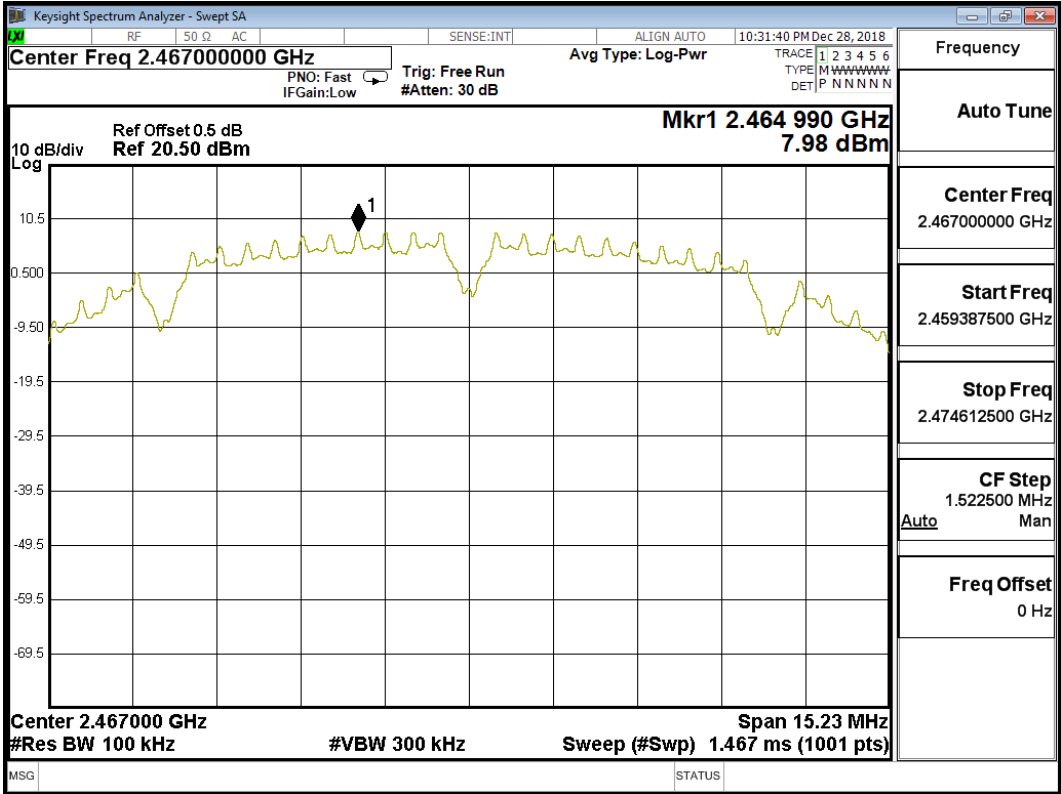
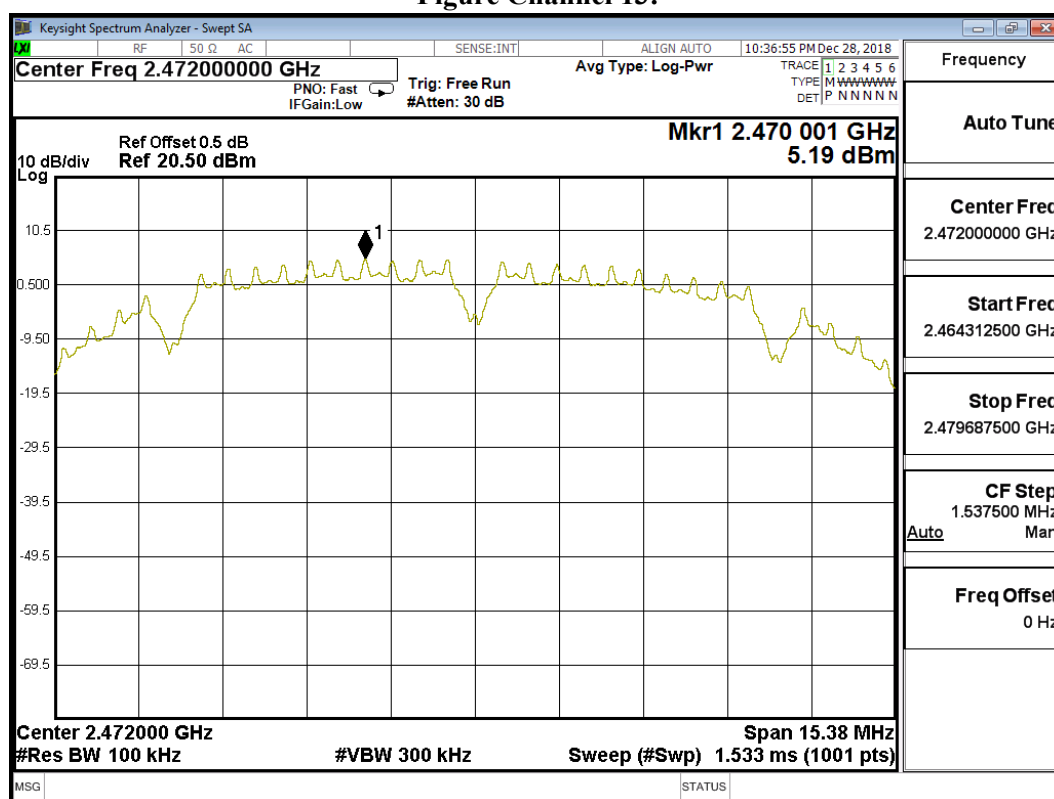


Figure Channel 13:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：108年01月02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	6.38	$\leq 8\text{dBm}$	Pass
07	2442	7.93	$\leq 8\text{dBm}$	Pass
11	2462	6.68	$\leq 8\text{dBm}$	Pass
12	2467	2.94	$\leq 8\text{dBm}$	Pass
13	2472	-15.6	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

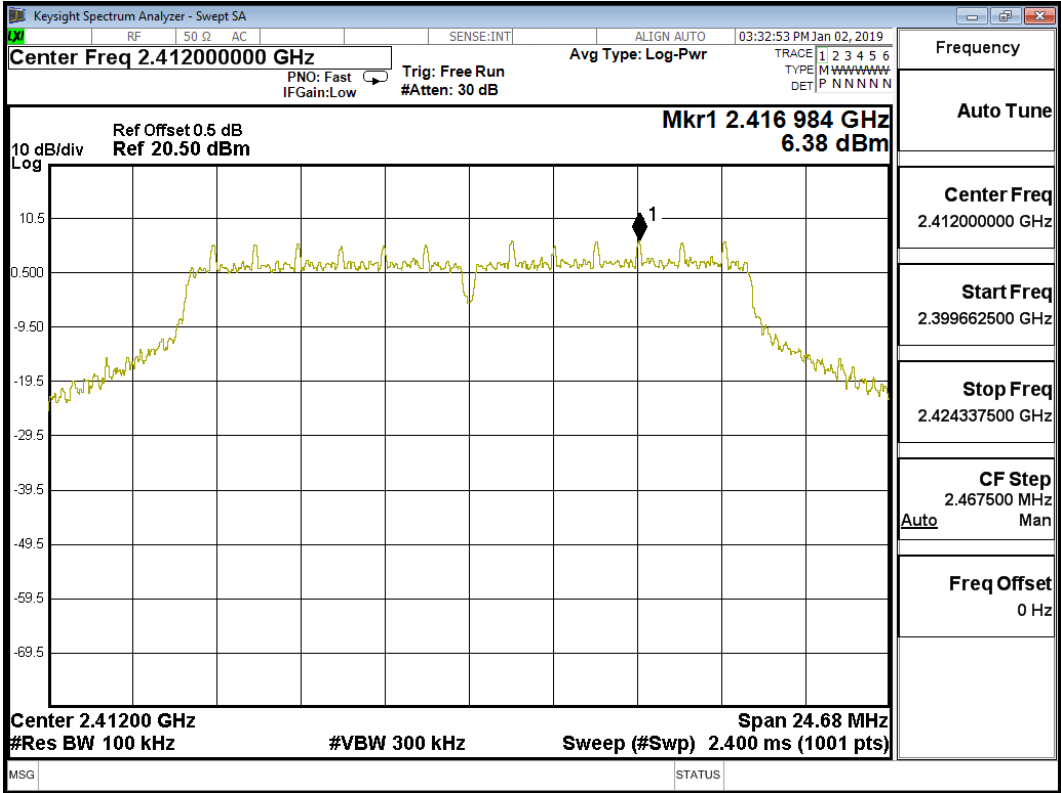


Figure Channel 07:

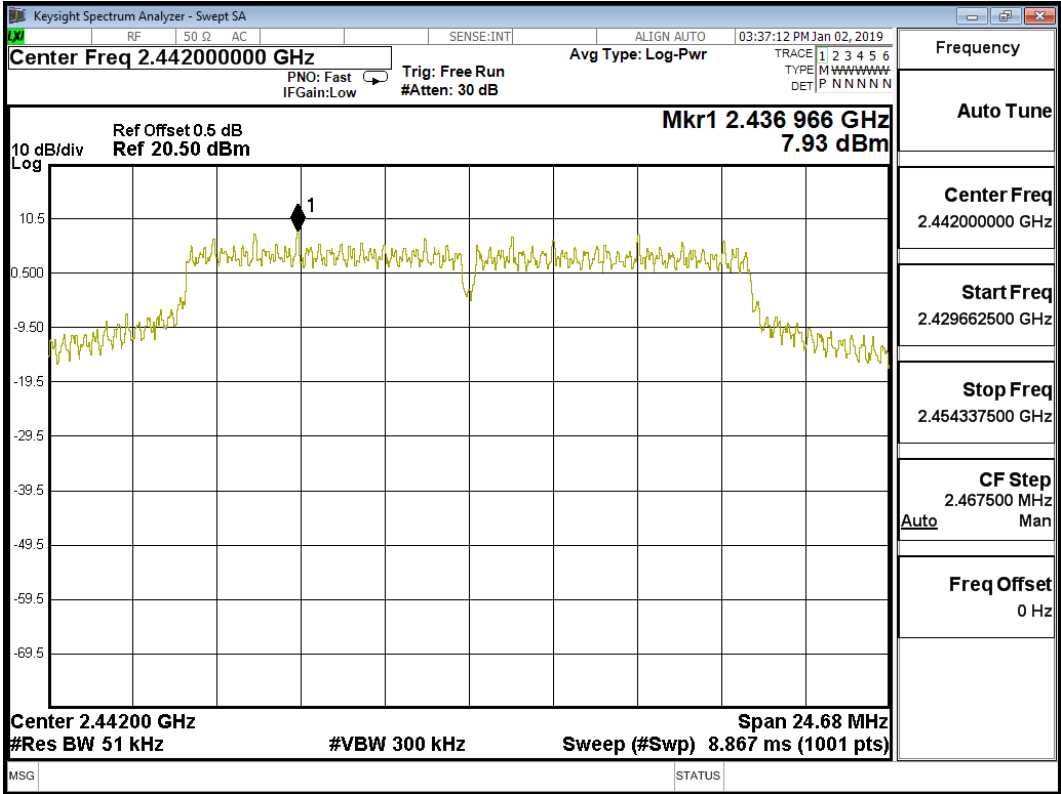


Figure Channel 11:

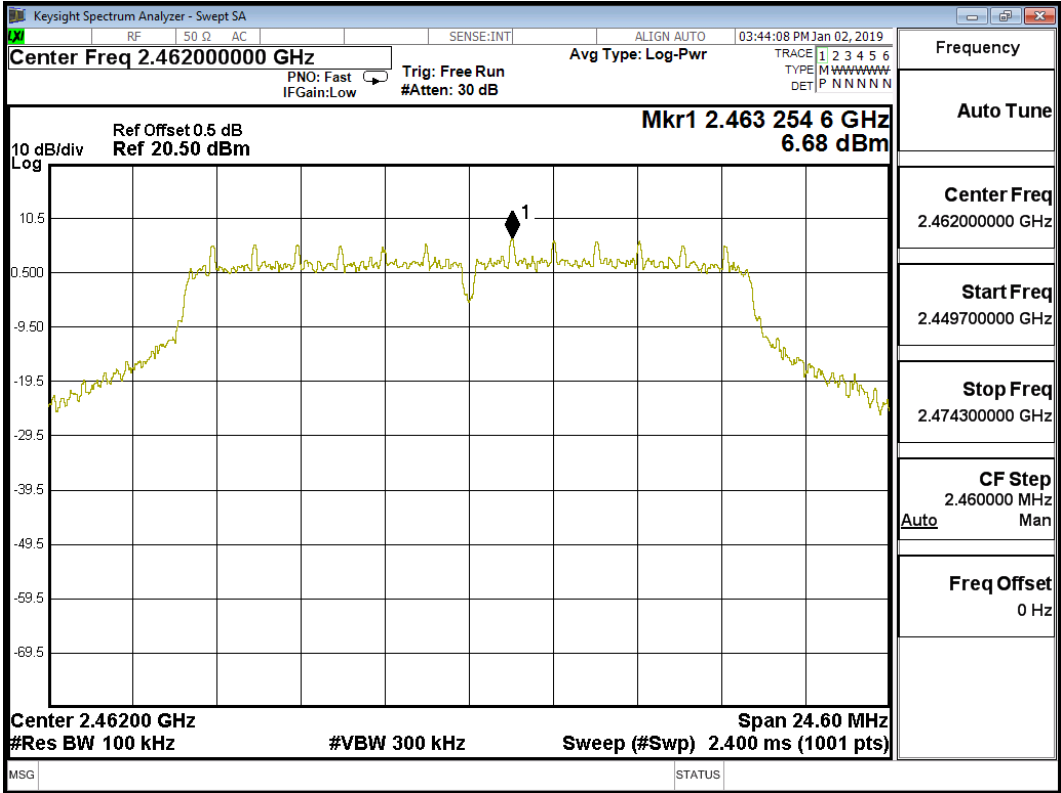


Figure Channel 12:

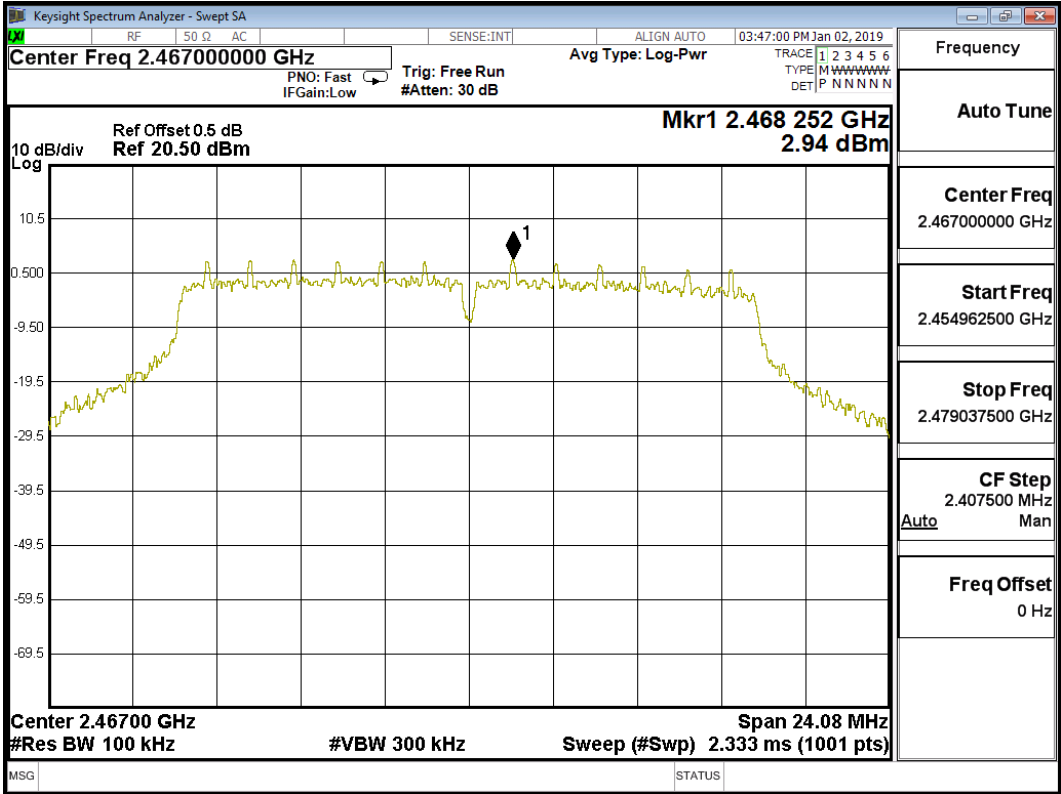
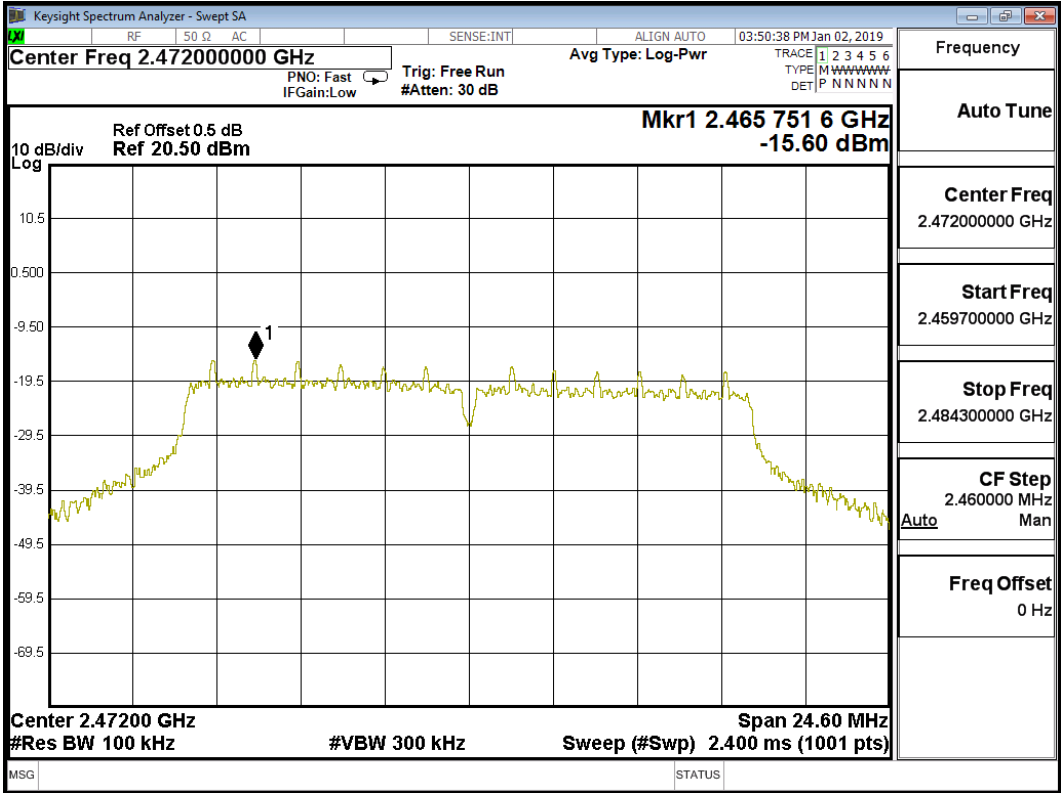


Figure Channel 13:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

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 °C

測試日期：108 年 01 月 02 日

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	6.38	$\leq 8\text{dBm}$	Pass
07	2442	7.74	$\leq 8\text{dBm}$	Pass
11	2462	6.56	$\leq 8\text{dBm}$	Pass
12	2467	2.88	$\leq 8\text{dBm}$	Pass
13	2472	-15.64	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

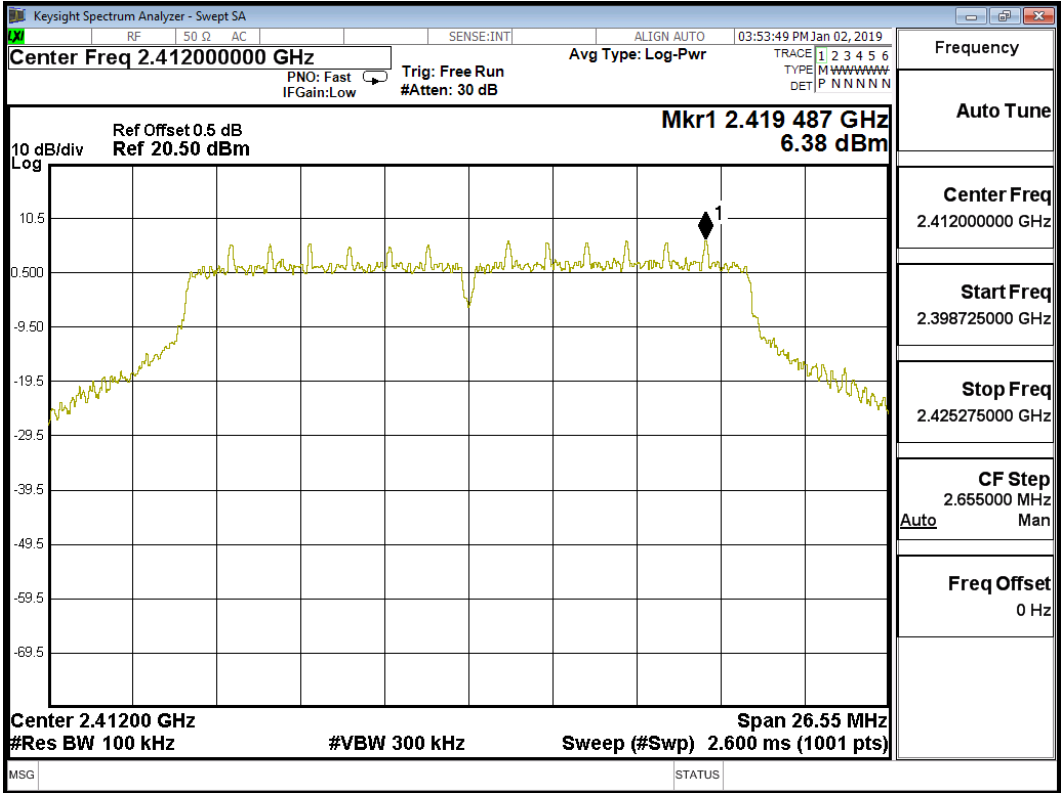


Figure Channel 07:

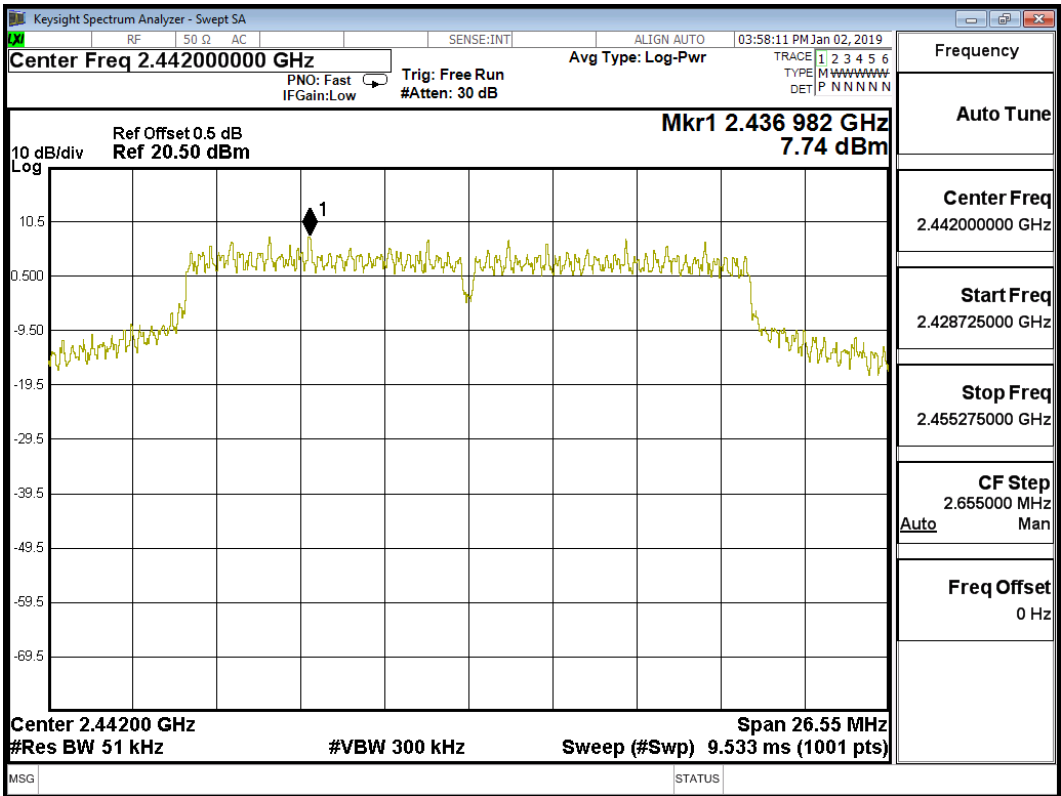


Figure Channel 11:

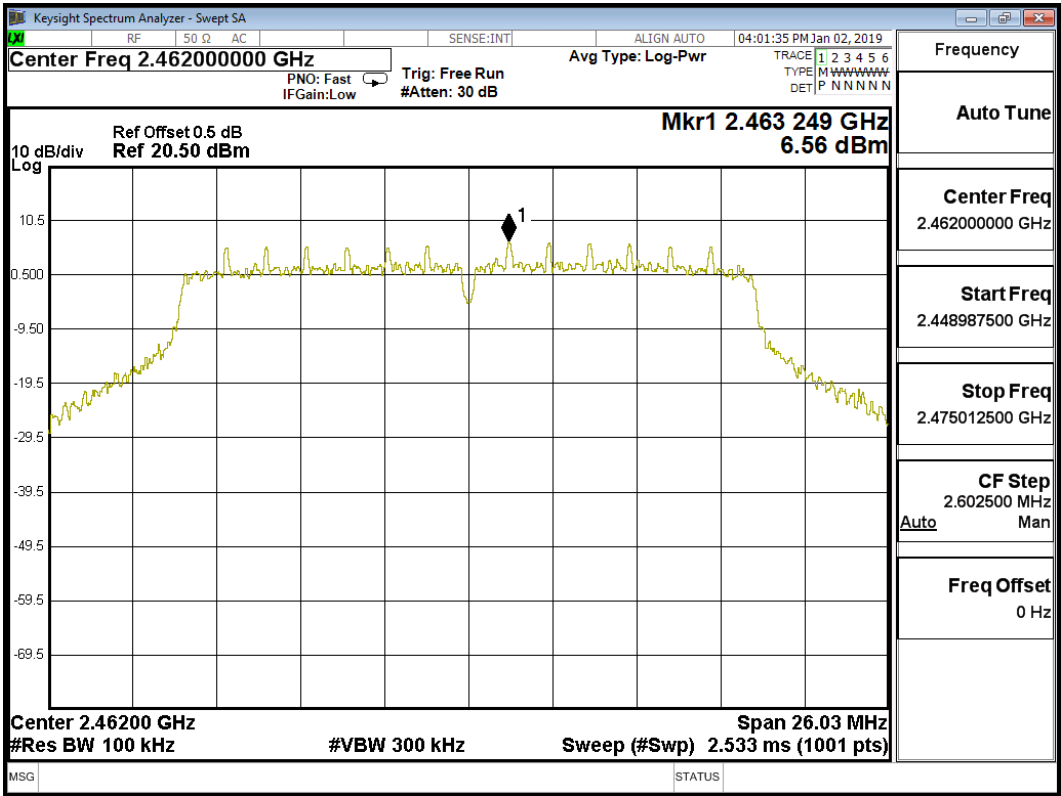


Figure Channel 12:

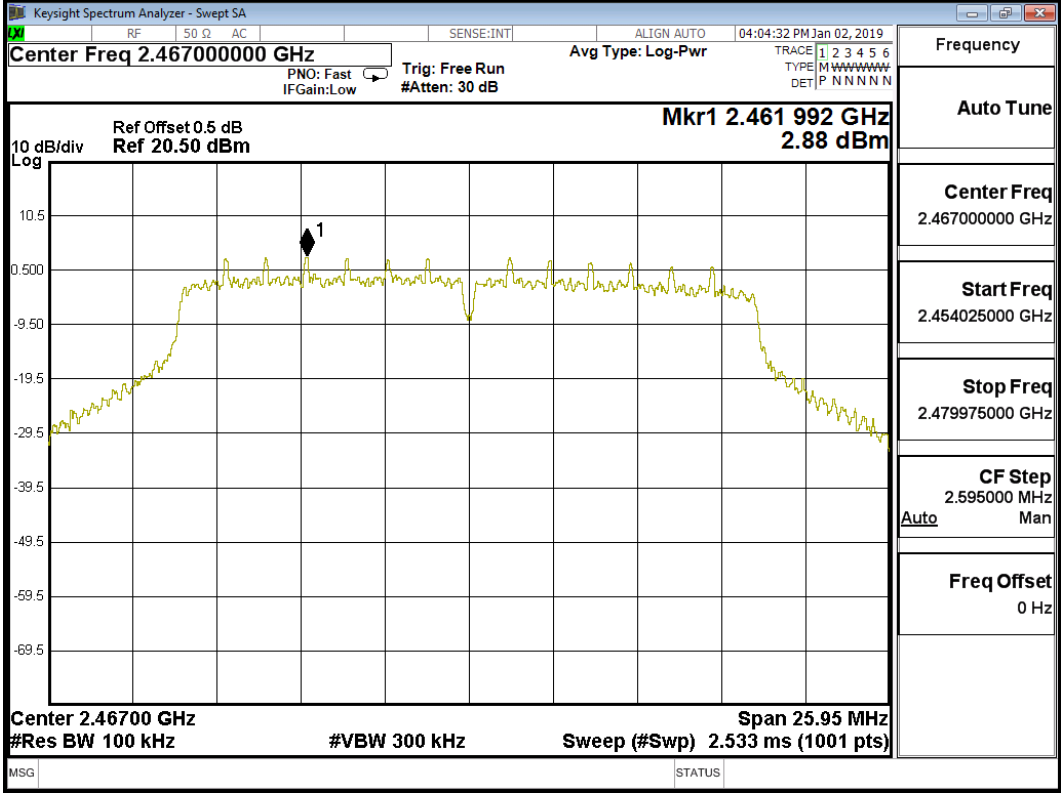
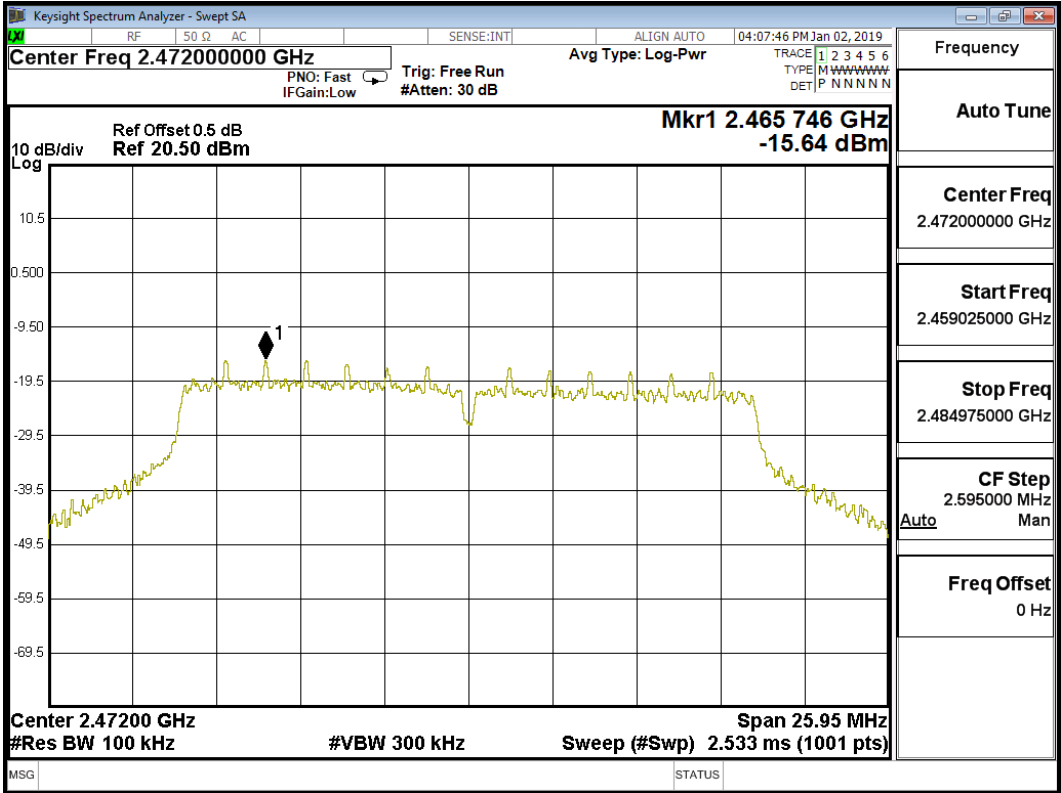


Figure Channel 13:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：108年01月02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	2.08	$\leq 8\text{dBm}$	Pass
07	2442	2.57	$\leq 8\text{dBm}$	Pass
09	2452	2.61	$\leq 8\text{dBm}$	Pass
10	2457	-2.99	$\leq 8\text{dBm}$	Pass
11	2462	-11.31	$\leq 8\text{dBm}$	Pass

Figure Channel 03:

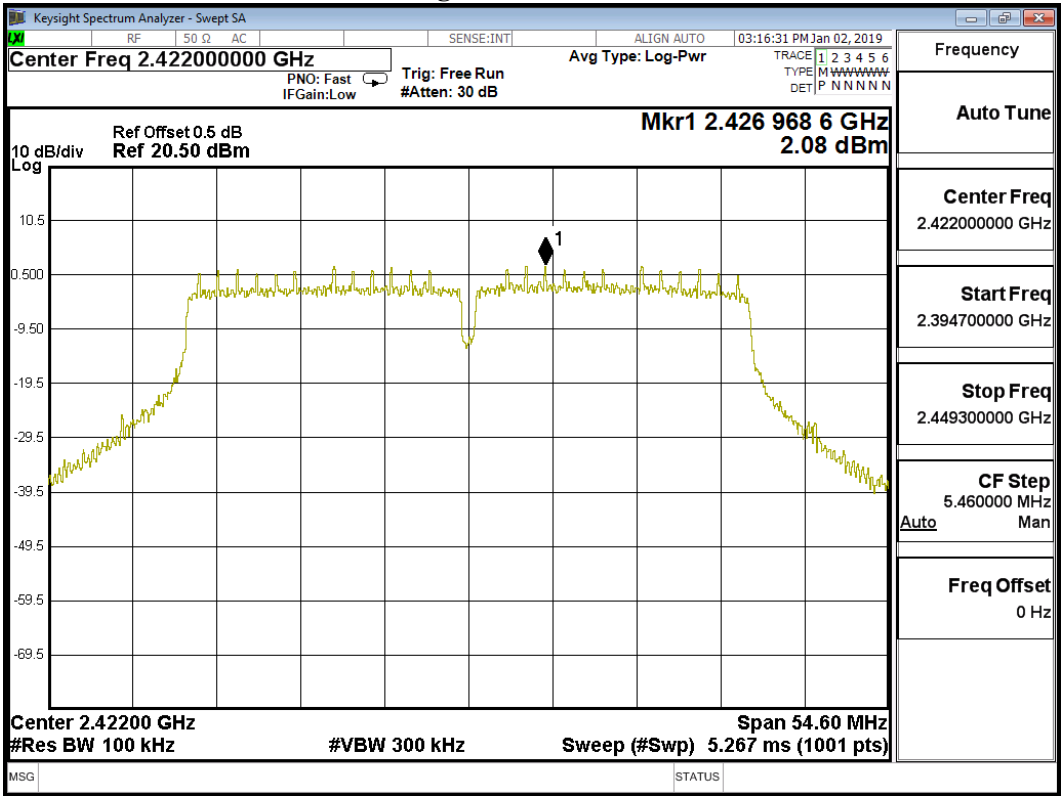


Figure Channel 07:

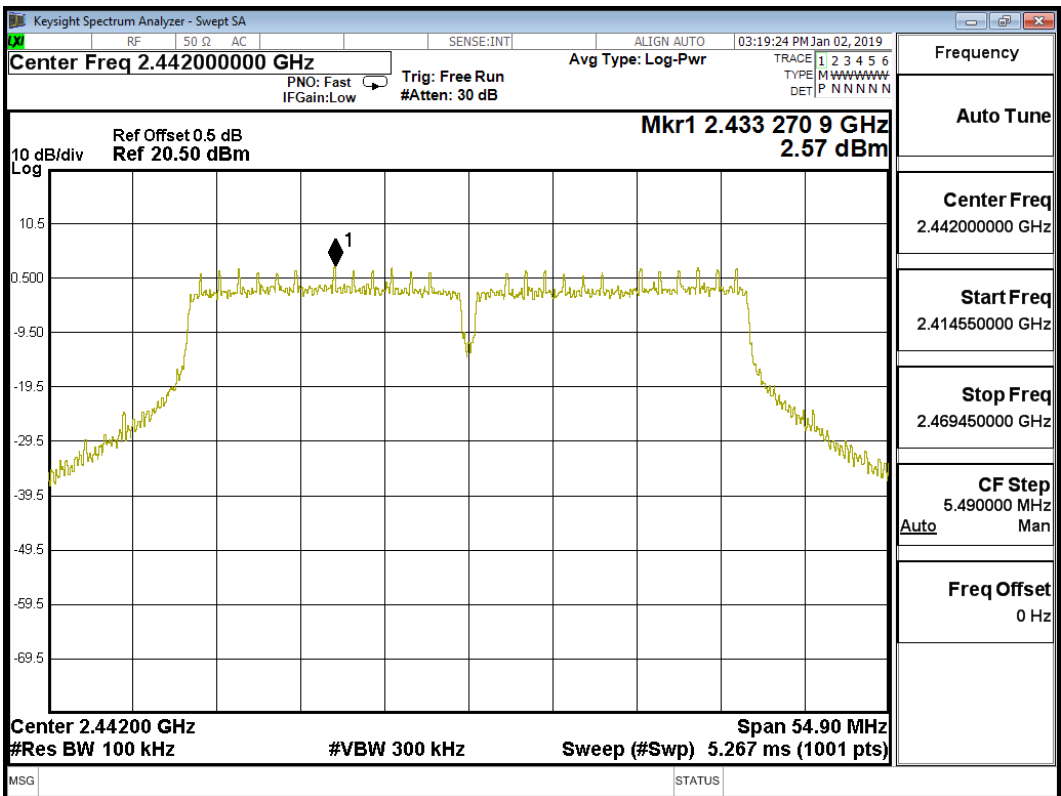


Figure Channel 09:

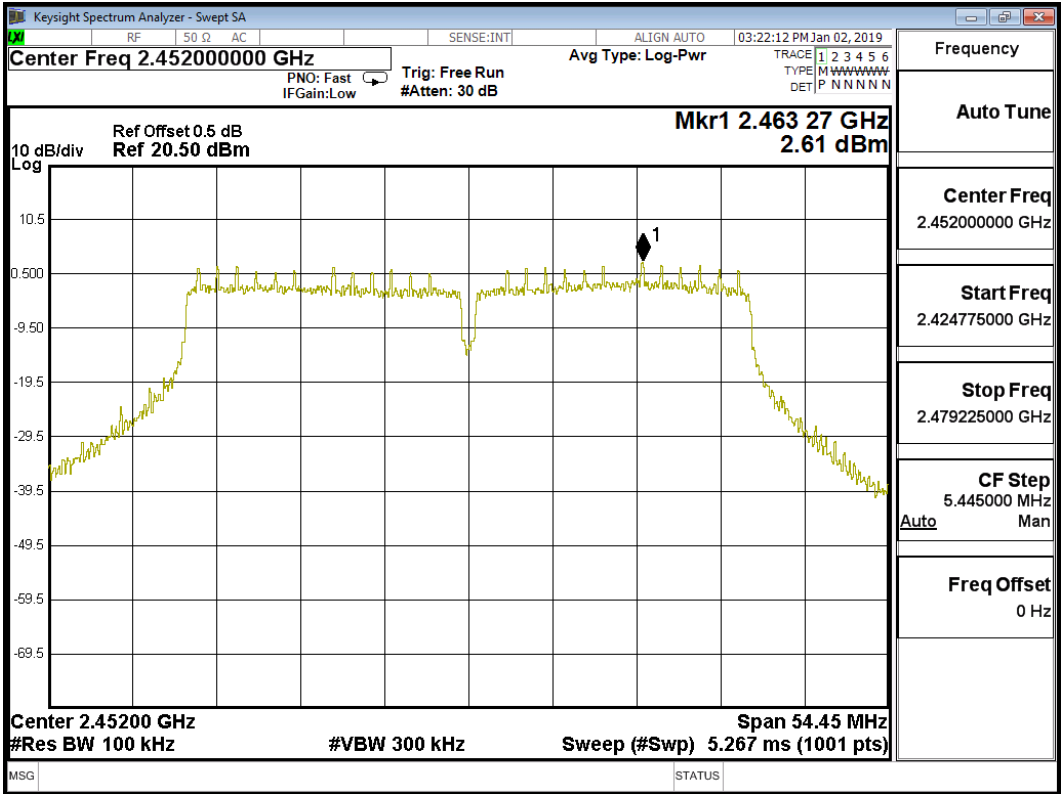


Figure Channel 10:

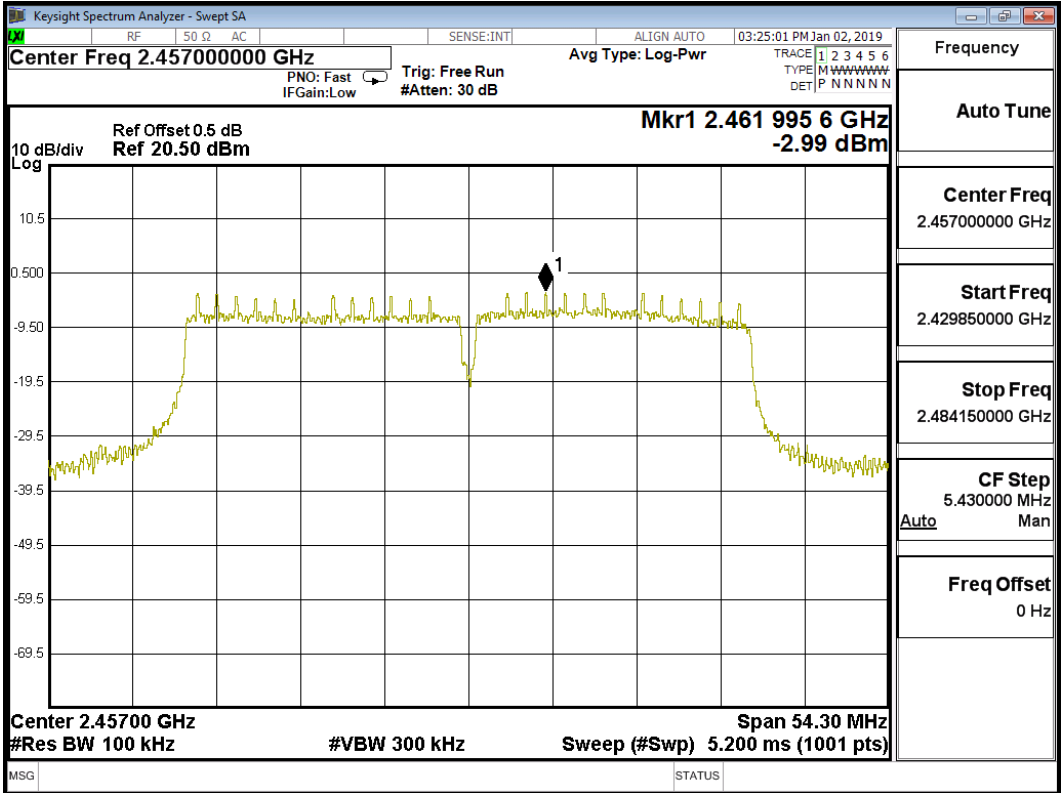
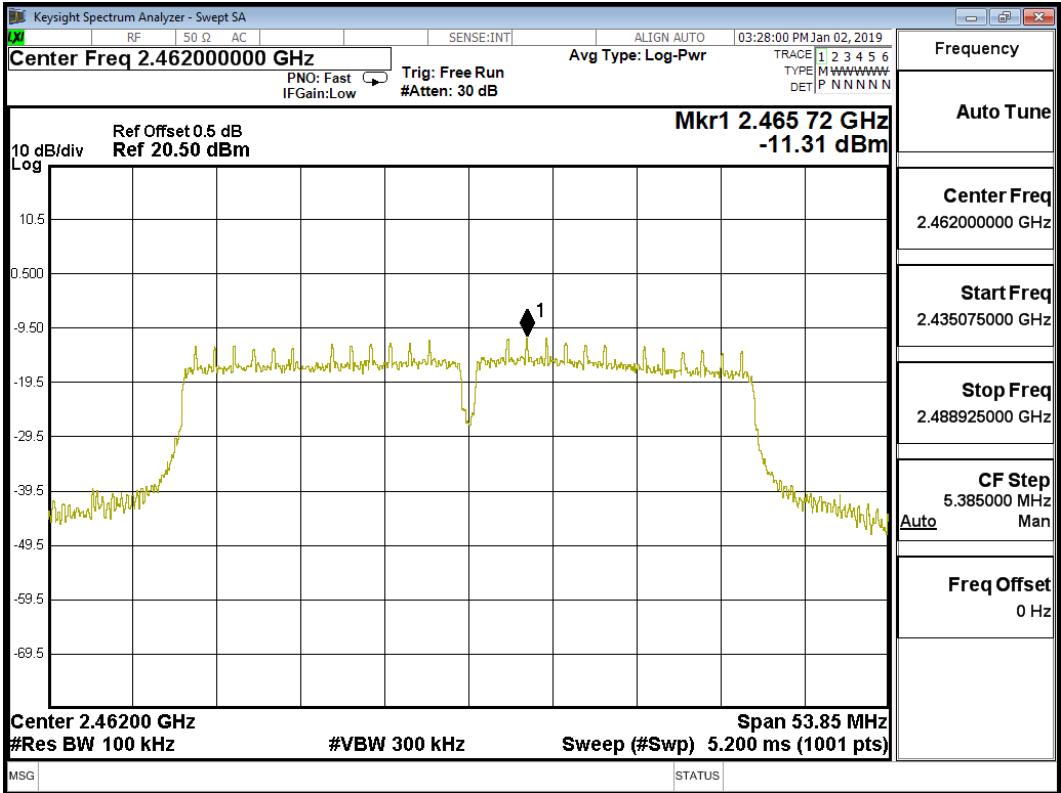


Figure Channel 11:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：108年01月02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	7.06	$\leq 8\text{dBm}$	Pass
07	2442	7.79	$\leq 8\text{dBm}$	Pass
11	2462	6.57	$\leq 8\text{dBm}$	Pass
12	2467	7.67	$\leq 8\text{dBm}$	Pass
13	2472	4.84	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

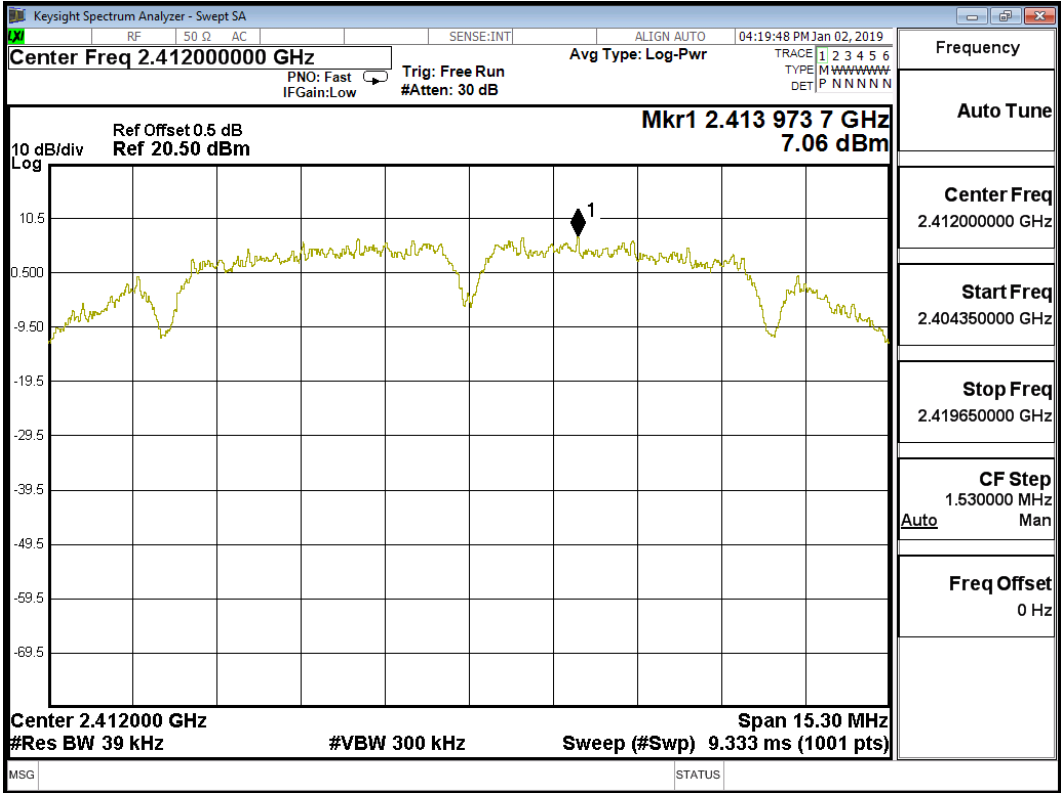


Figure Channel 07:

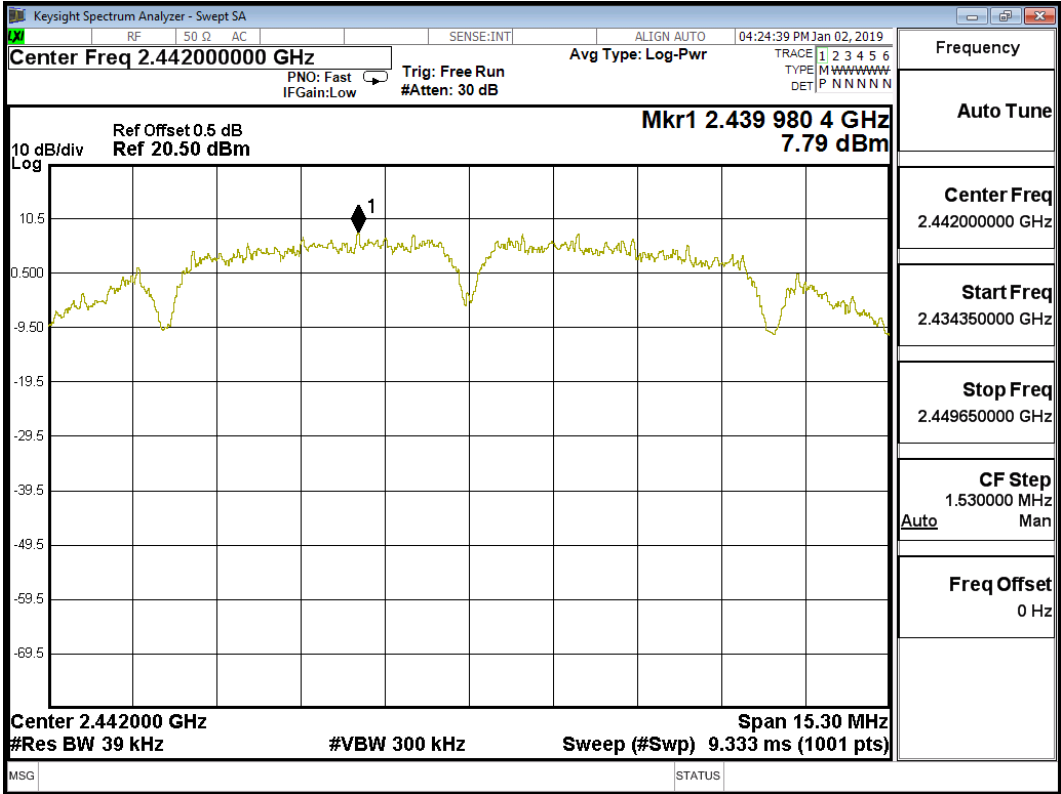


Figure Channel 11:

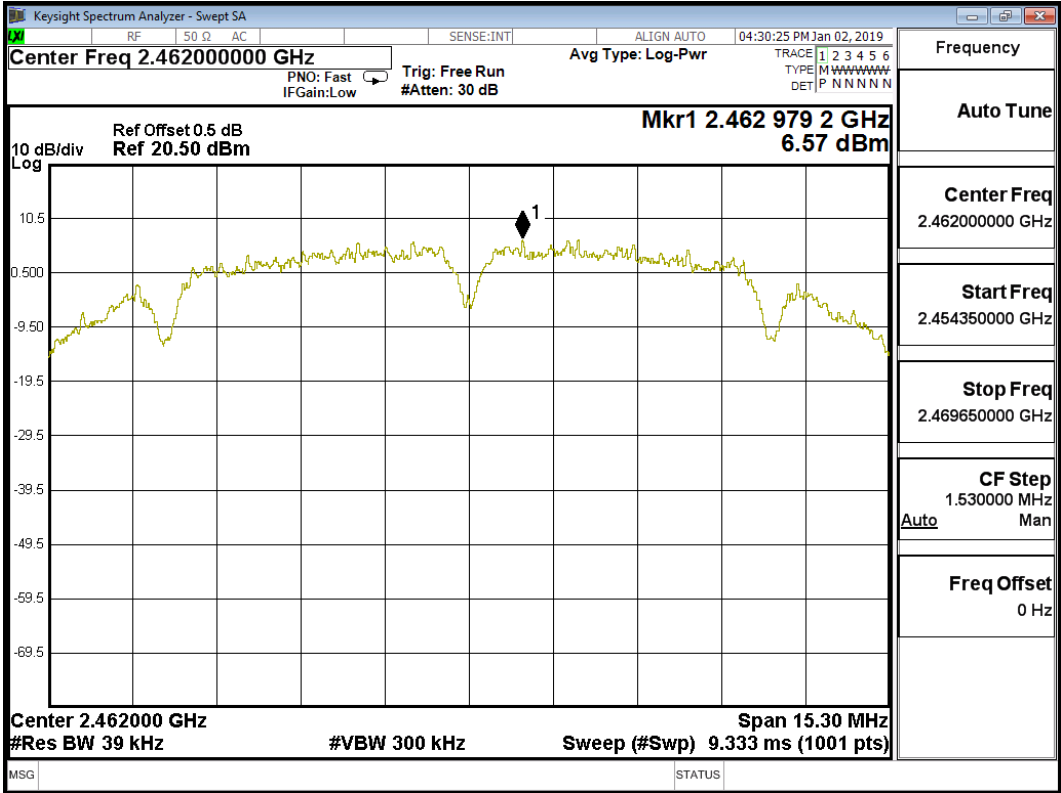


Figure Channel 12:

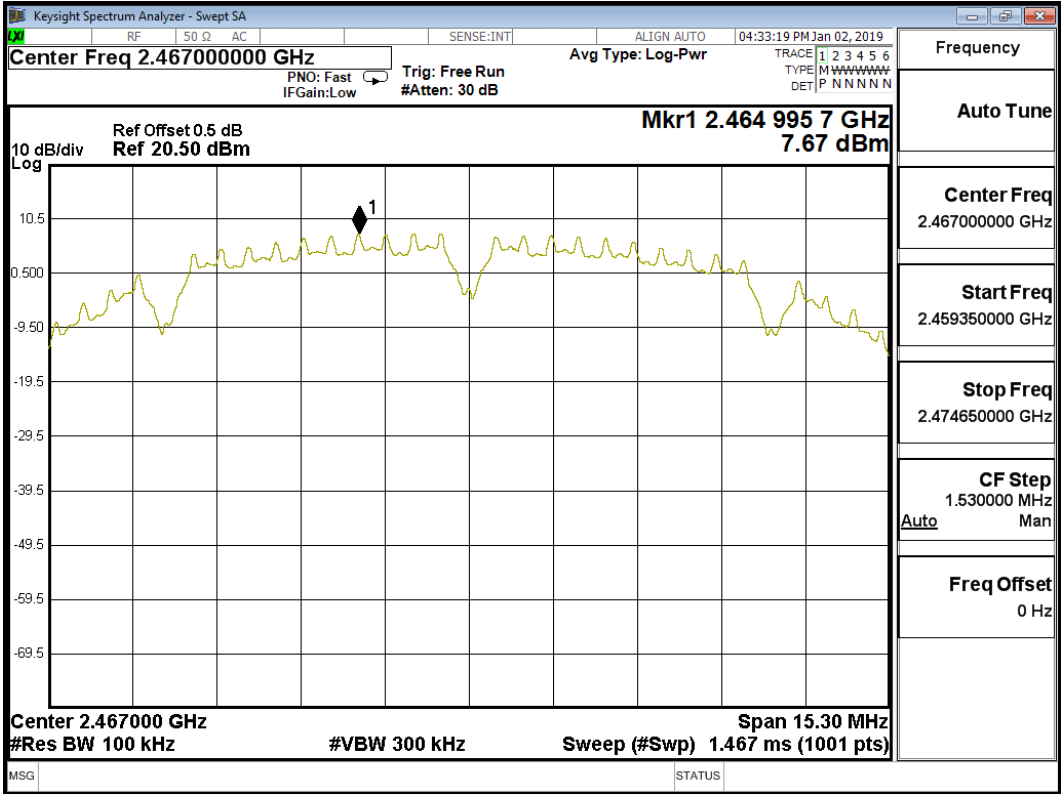
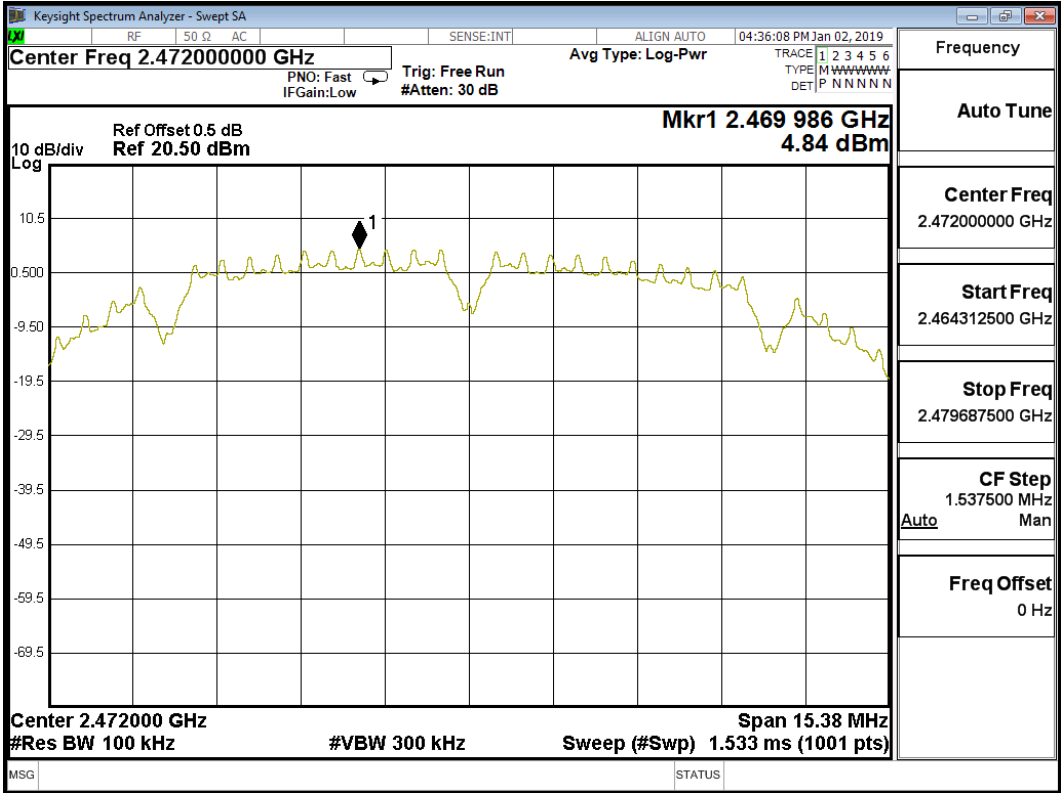


Figure Channel 13:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：108年01月02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	5.5	$\leq 8\text{dBm}$	Pass
07	2442	7.22	$\leq 8\text{dBm}$	Pass
11	2462	5.61	$\leq 8\text{dBm}$	Pass
12	2467	2.67	$\leq 8\text{dBm}$	Pass
13	2472	-15.7	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

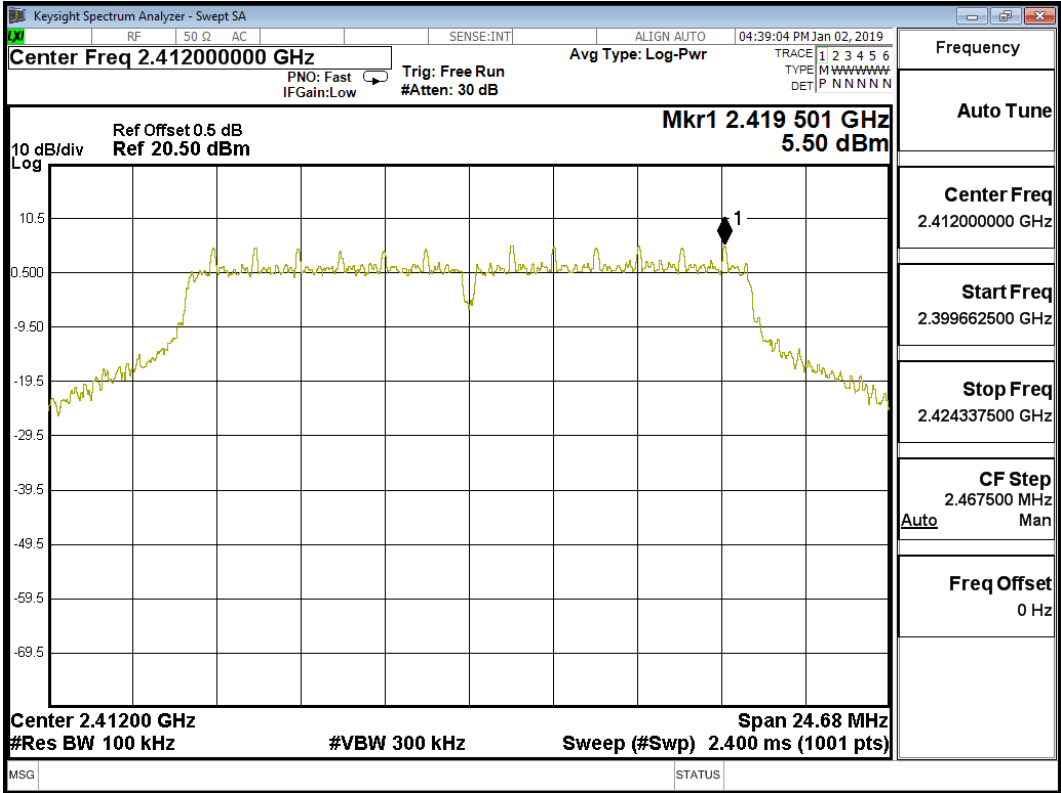


Figure Channel 07:

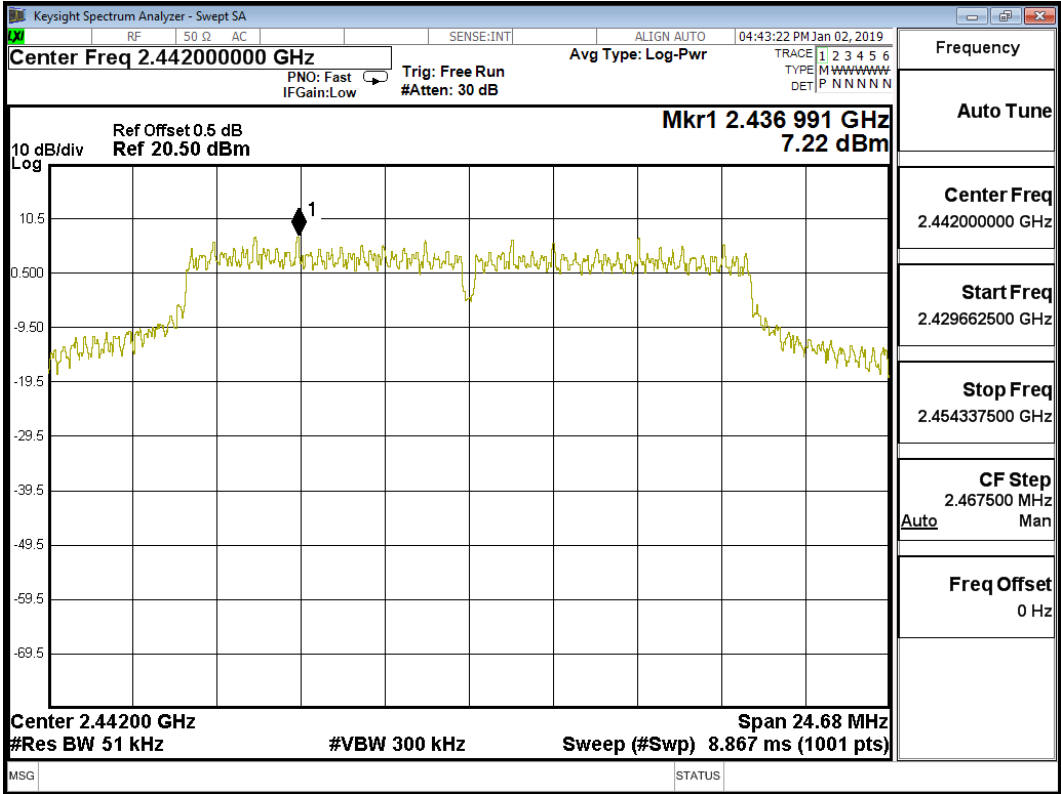


Figure Channel 11:

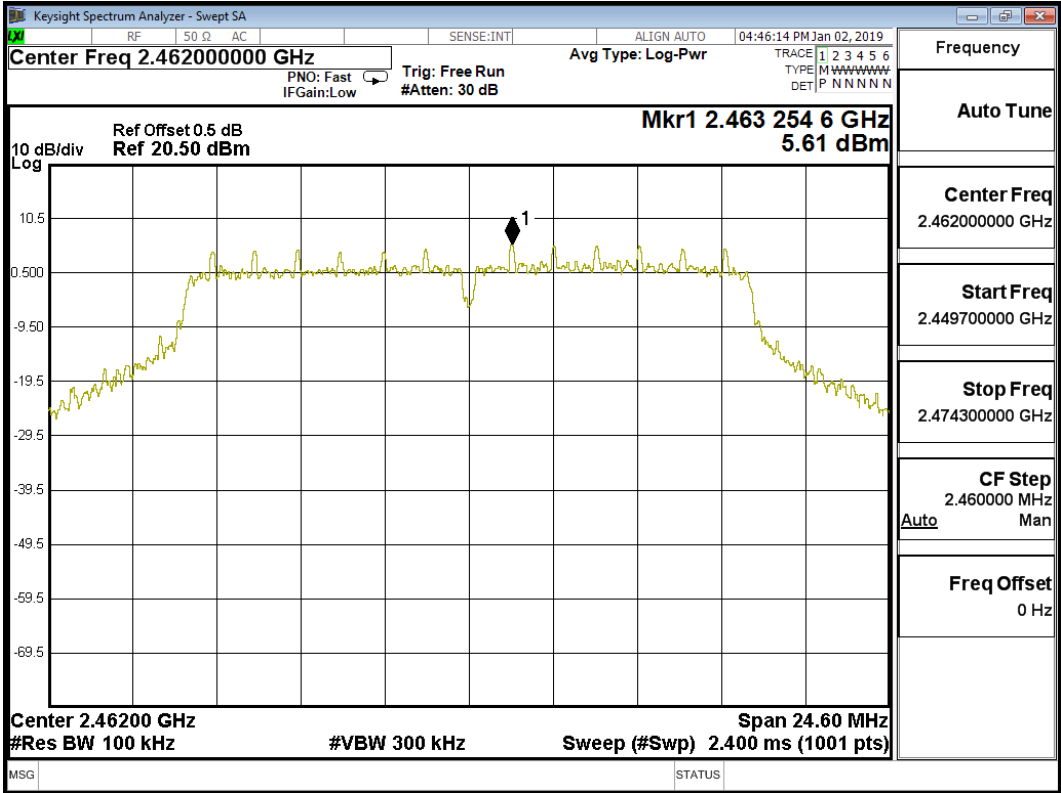


Figure Channel 12:

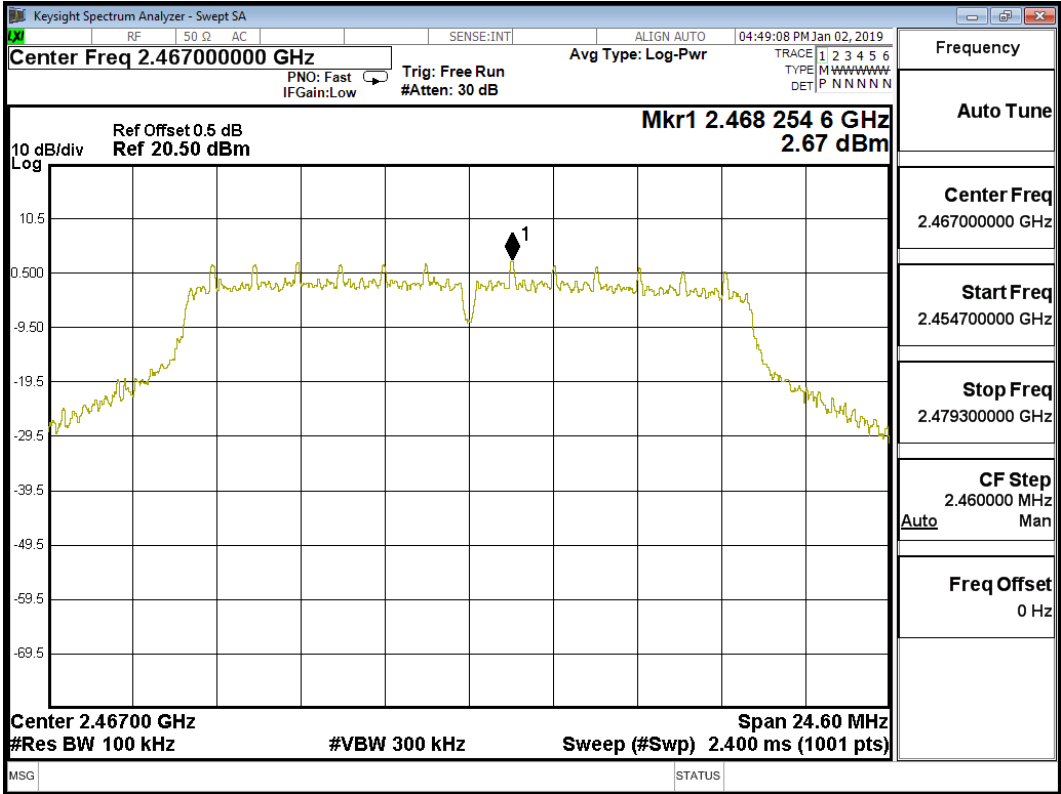
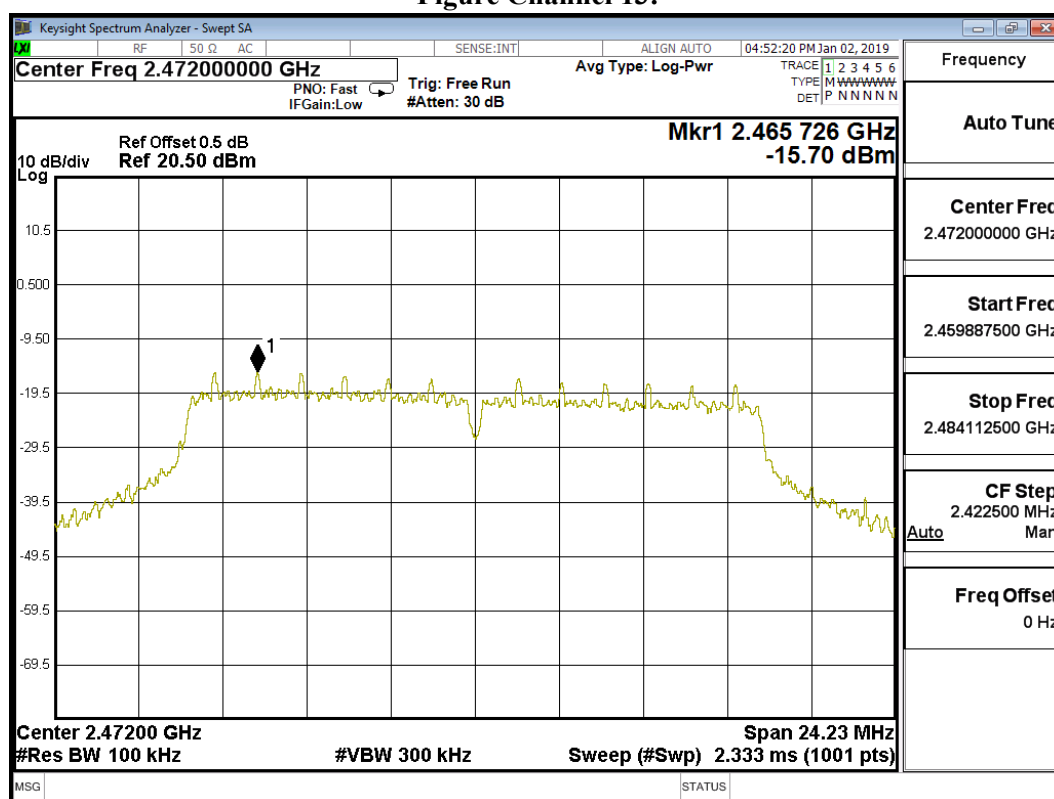


Figure Channel 13:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

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 °C

測試日期：108 年 01 月 02 日

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.5	$\leq 8\text{dBm}$	Pass
07	2442	7.29	$\leq 8\text{dBm}$	Pass
11	2462	5.91	$\leq 8\text{dBm}$	Pass
12	2467	2.65	$\leq 8\text{dBm}$	Pass
13	2472	-15.68	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

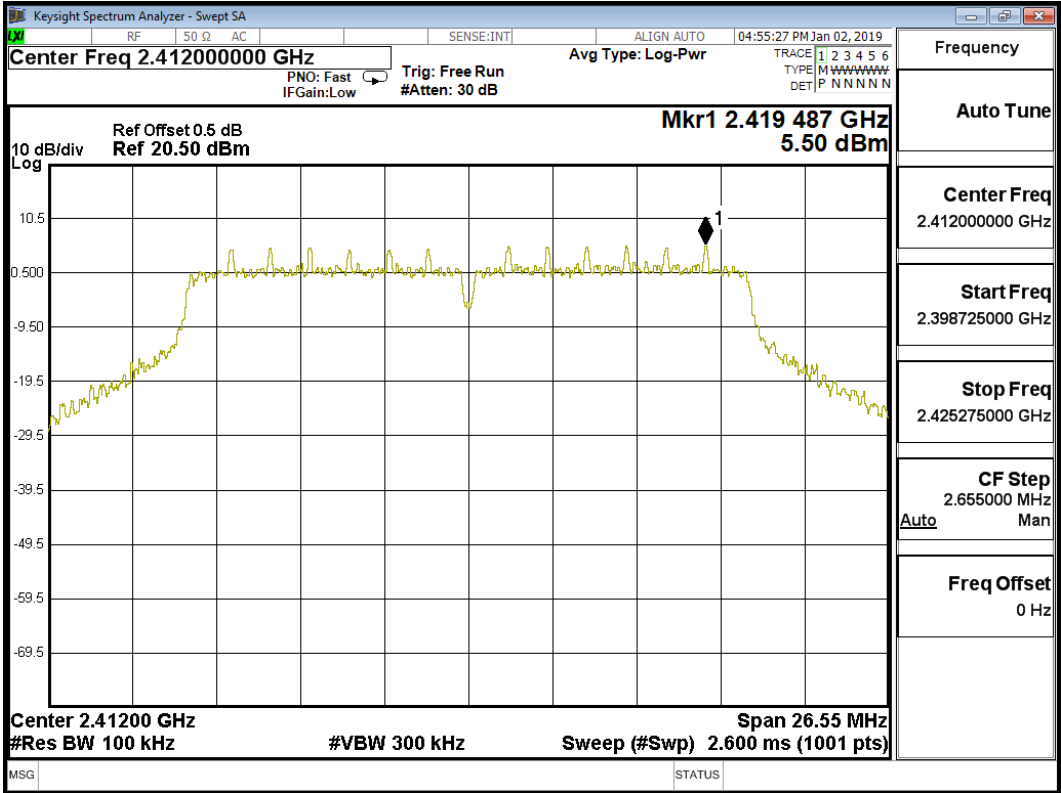


Figure Channel 07:

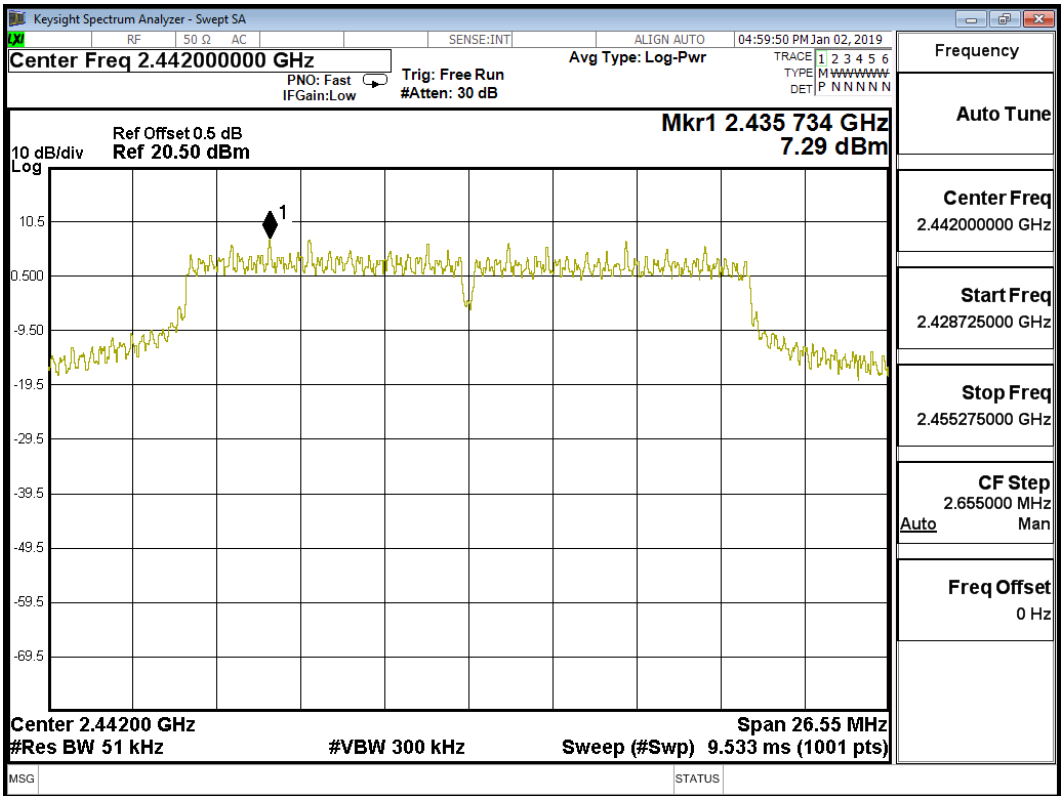


Figure Channel 11:

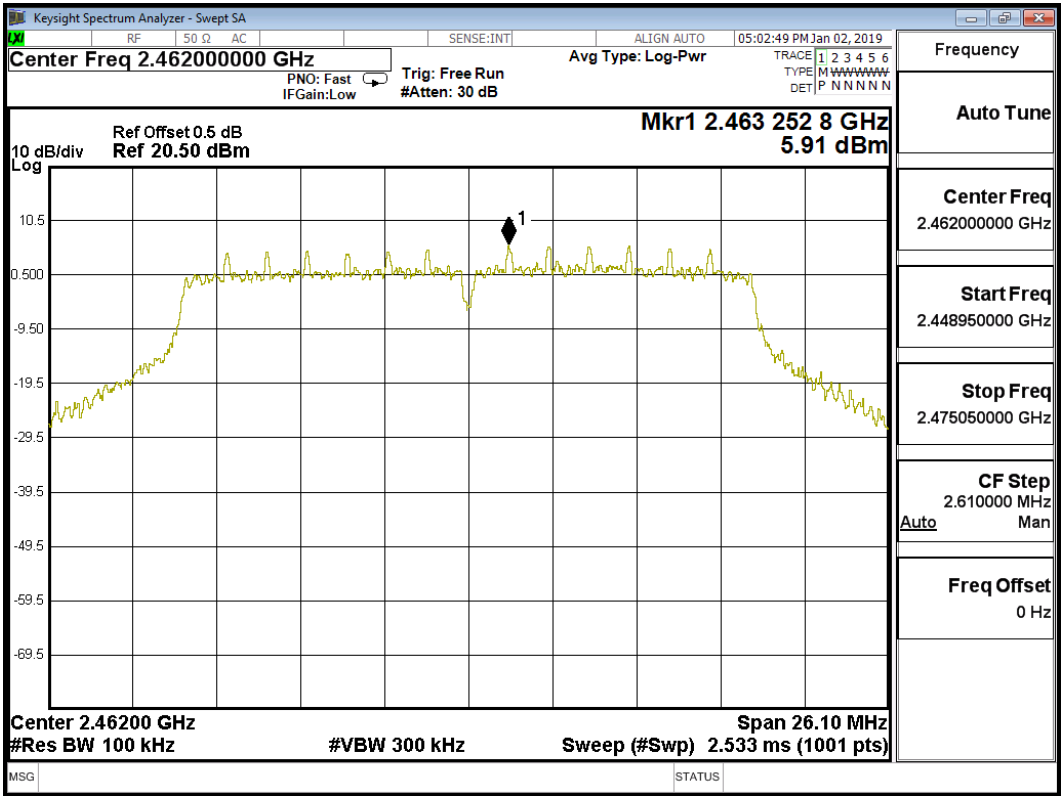


Figure Channel 12:

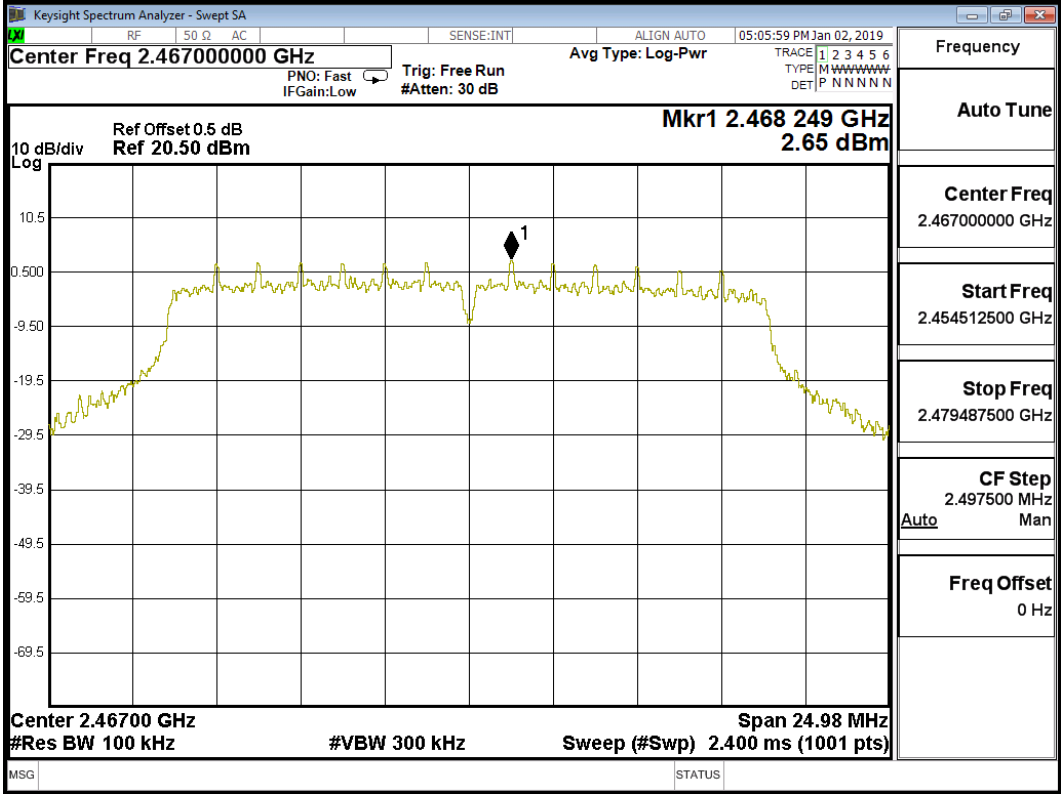
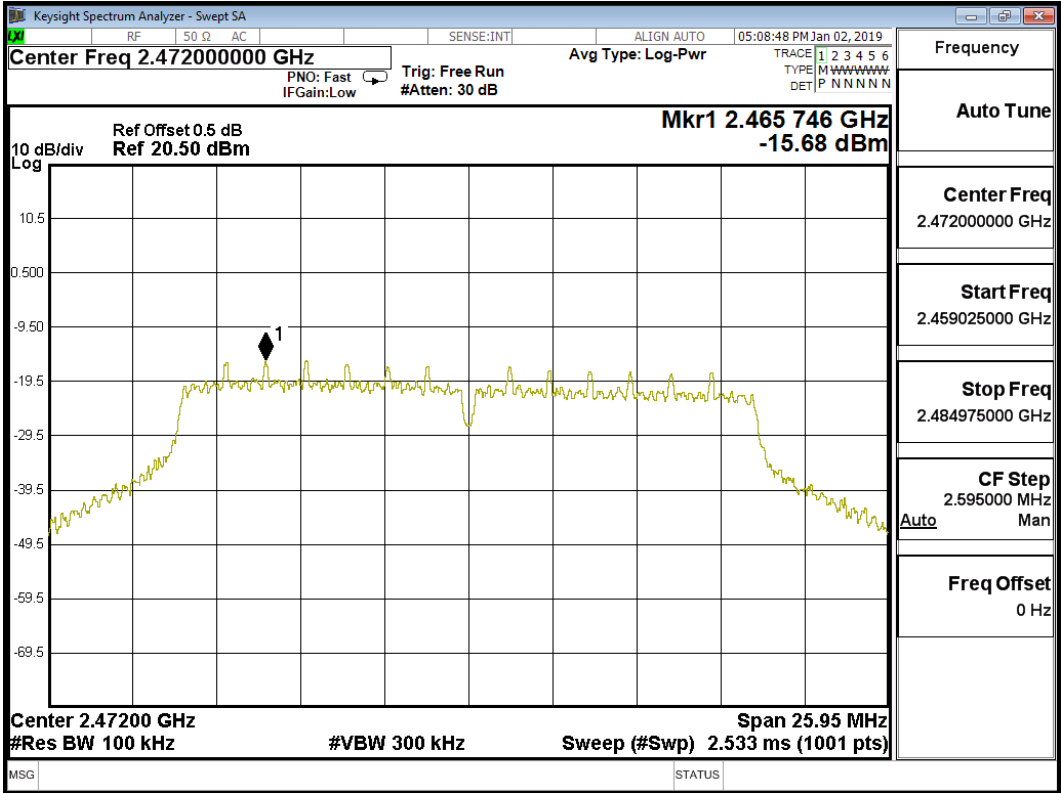


Figure Channel 13:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

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 (40MHz)

量測天線：--

測試距離：Conducted

檢測器：峰值

環境溫度：20 °C

測試日期：108 年 01 月 02 日

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	1.23	$\leq 8\text{dBm}$	Pass
07	2442	2.22	$\leq 8\text{dBm}$	Pass
09	2452	1.96	$\leq 8\text{dBm}$	Pass
10	2457	-4.8	$\leq 8\text{dBm}$	Pass
11	2462	-11.19	$\leq 8\text{dBm}$	Pass

Figure Channel 03:

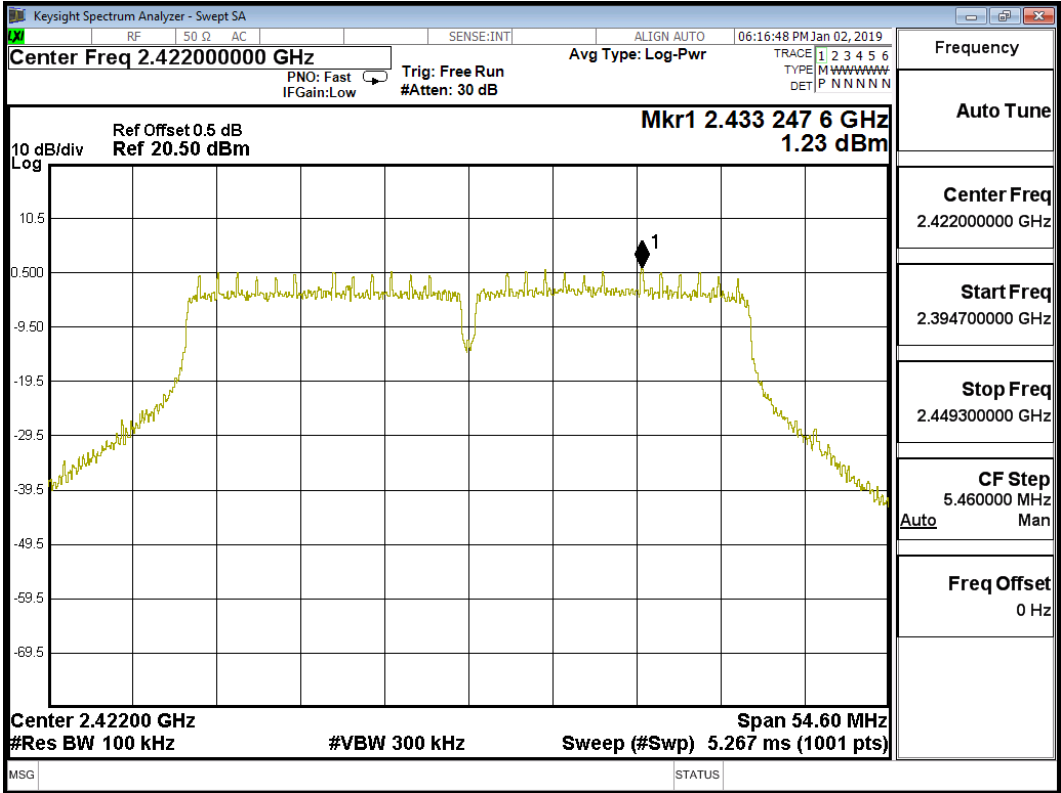


Figure Channel 07:

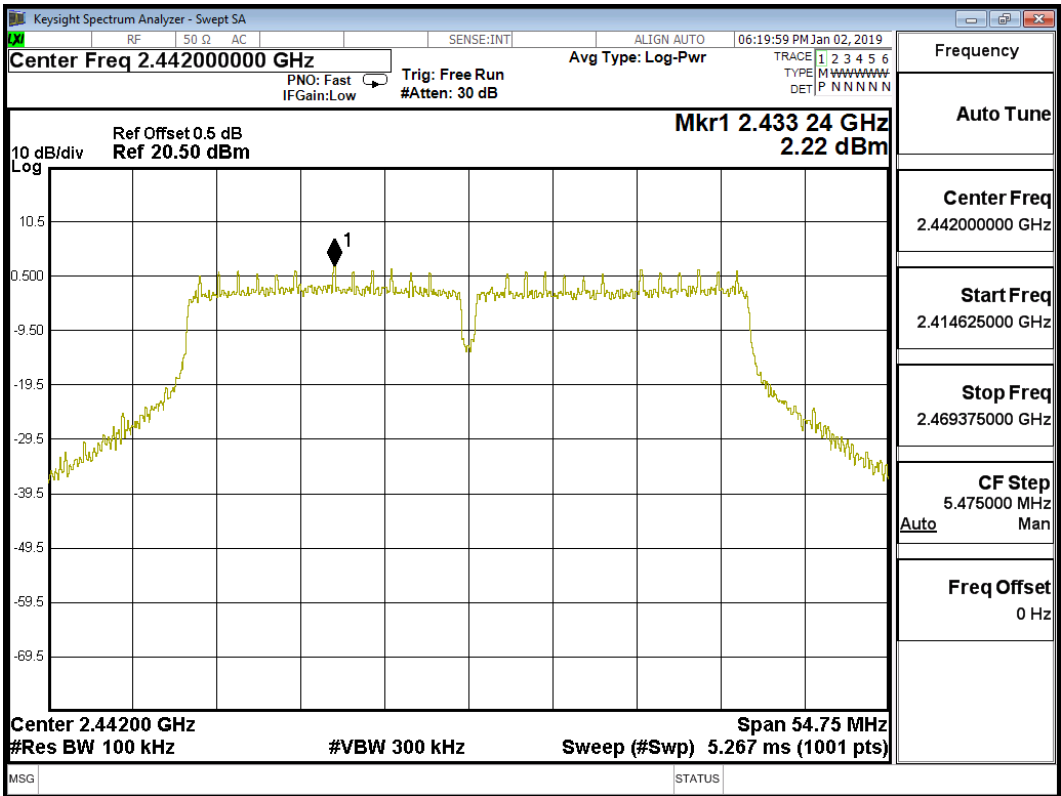


Figure Channel 09:

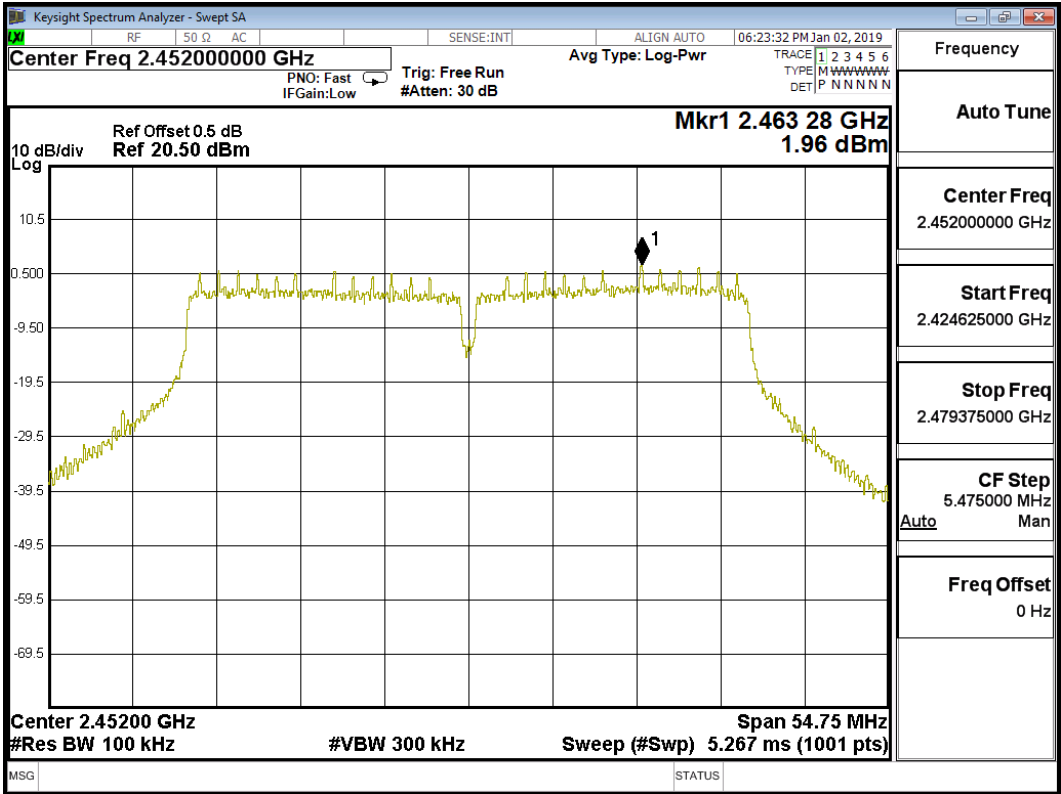


Figure Channel 10:

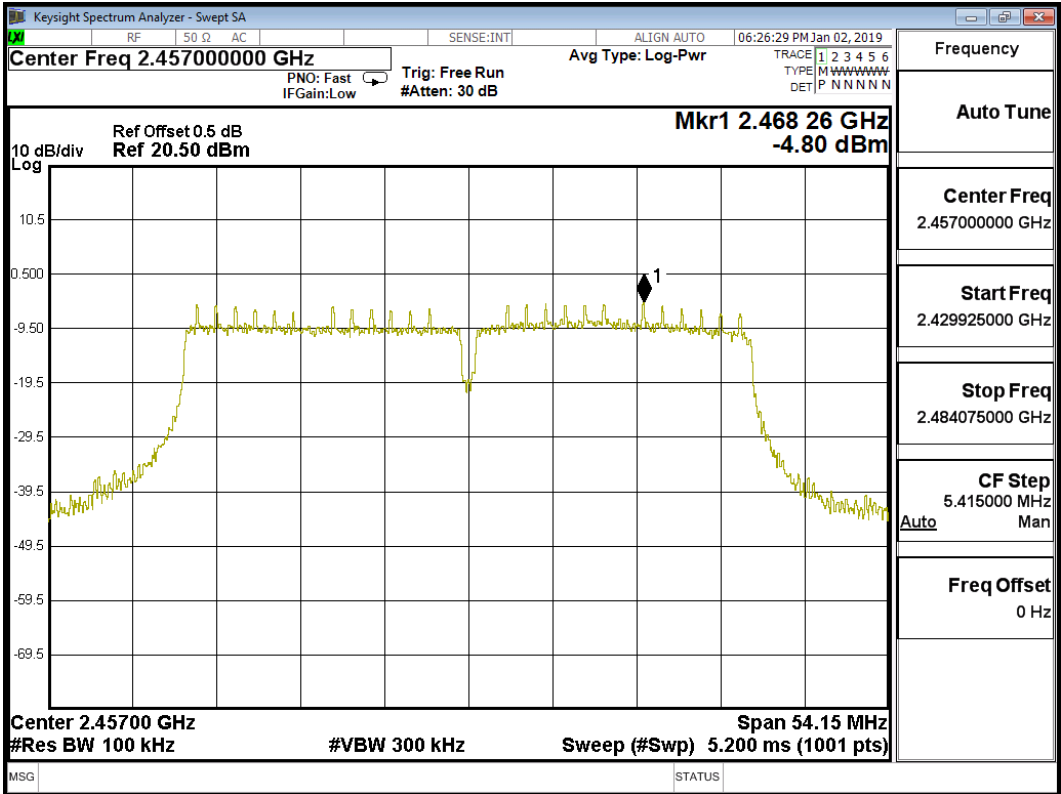
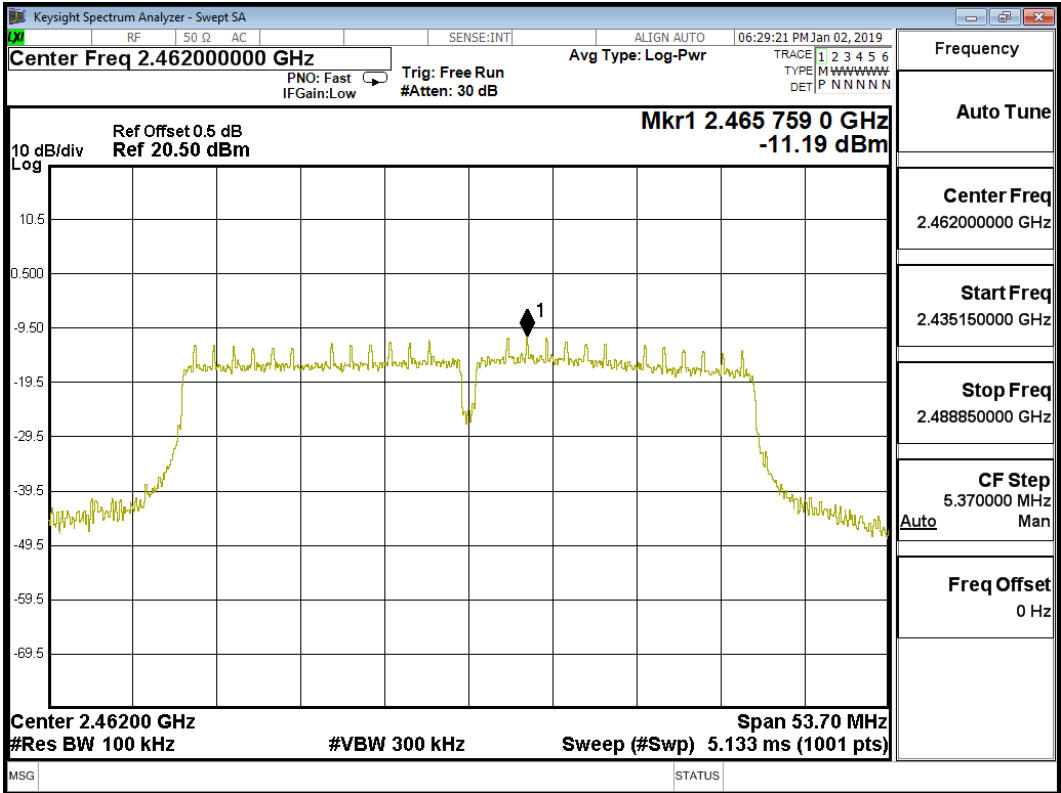


Figure Channel 11:



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

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 °C

測試日期：108 年 01 月 04 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	A	3.640	3.010	6.650	$\leq 8\text{dBm}$	Pass
		B	2.910	3.010	5.920	$\leq 8\text{dBm}$	Pass
07	2442	A	4.840	3.010	7.850	$\leq 8\text{dBm}$	Pass
		B	4.430	3.010	7.440	$\leq 8\text{dBm}$	Pass
11	2462	A	3.450	3.010	6.460	$\leq 8\text{dBm}$	Pass
		B	2.510	3.010	5.520	$\leq 8\text{dBm}$	Pass
12	2467	A	0.650	3.010	3.660	$\leq 8\text{dBm}$	Pass
		B	-0.170	3.010	2.840	$\leq 8\text{dBm}$	Pass
13	2472	A	-18.910	3.010	-15.900	$\leq 8\text{dBm}$	Pass
		B	-19.000	3.010	-15.990	$\leq 8\text{dBm}$	Pass

Note:

The quantity $10 \cdot \log 2$ (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 01: (Chain A)

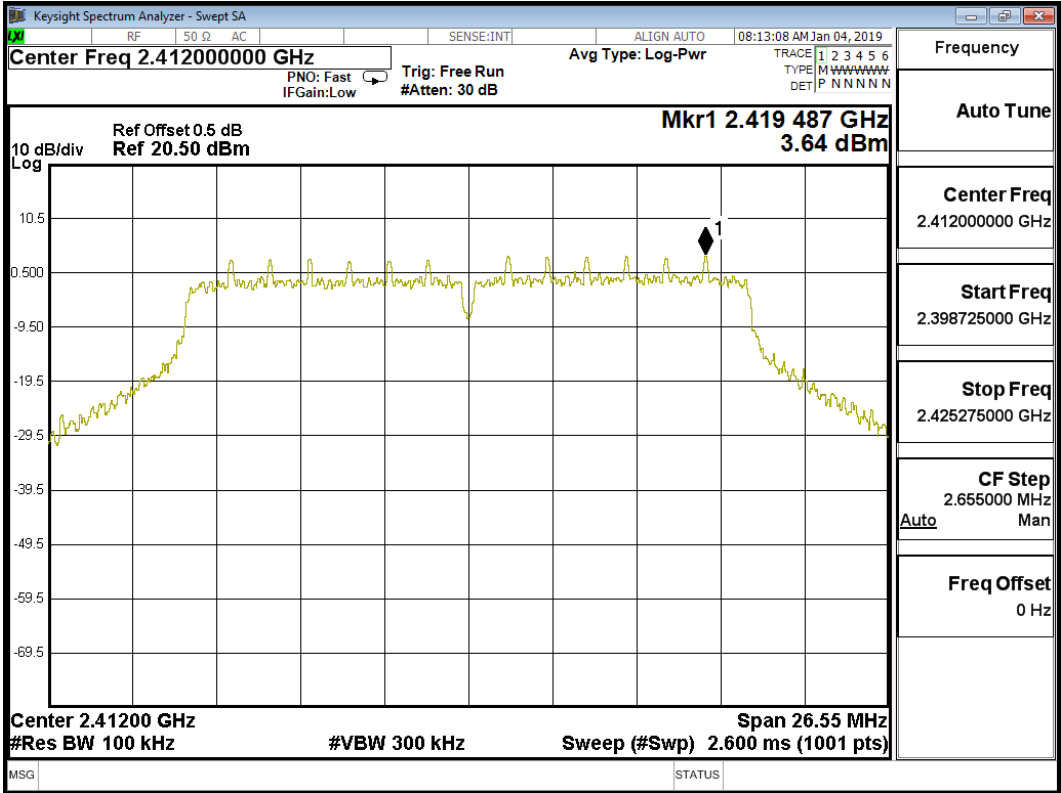


Figure Channel 01: (Chain B)

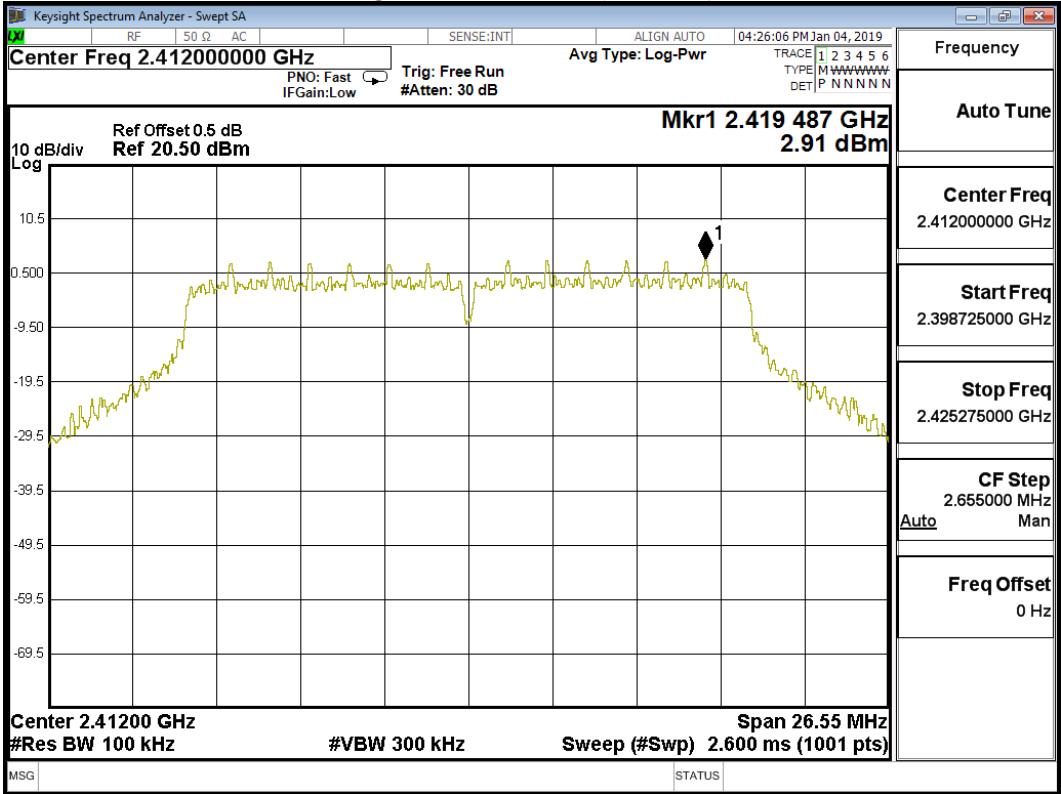


Figure Channel 07: (Chain A)

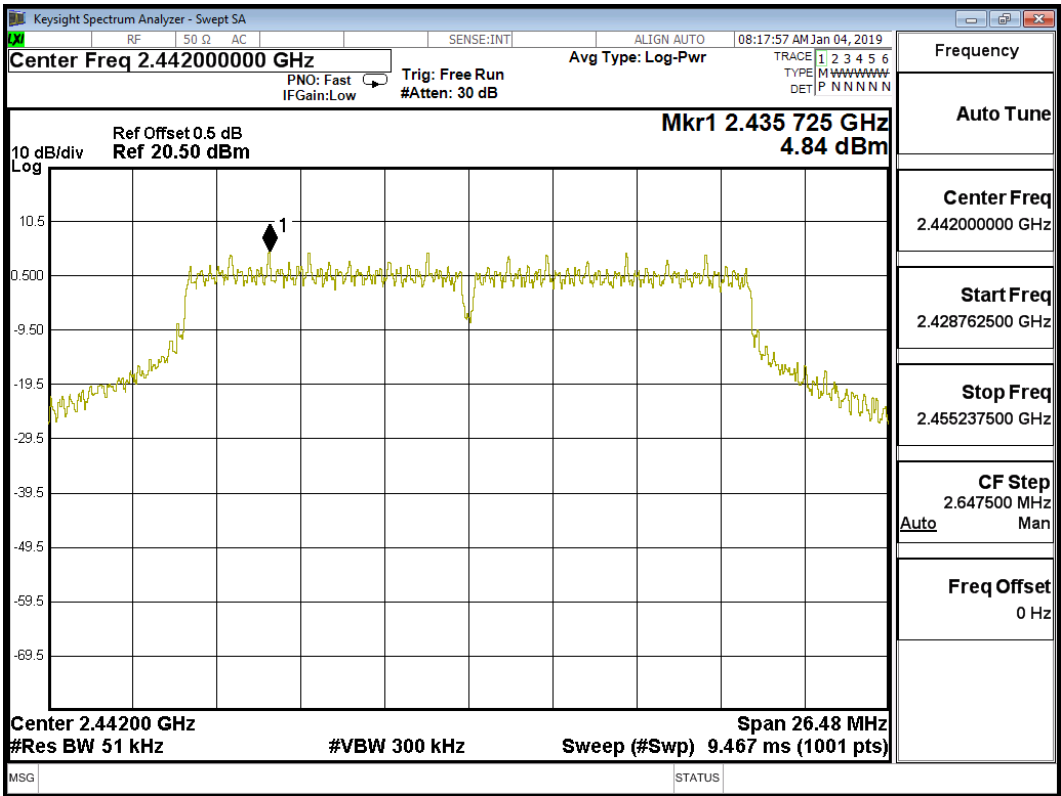


Figure Channel 07: (Chain B)

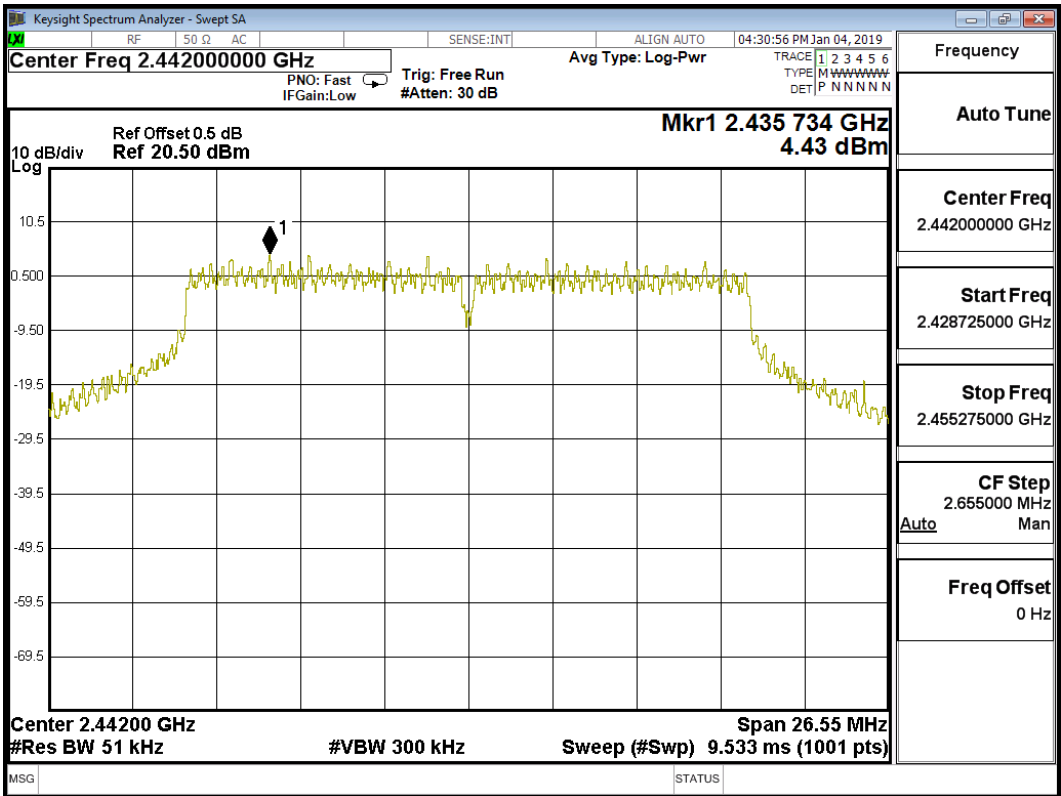


Figure Channel 11: (Chain A)

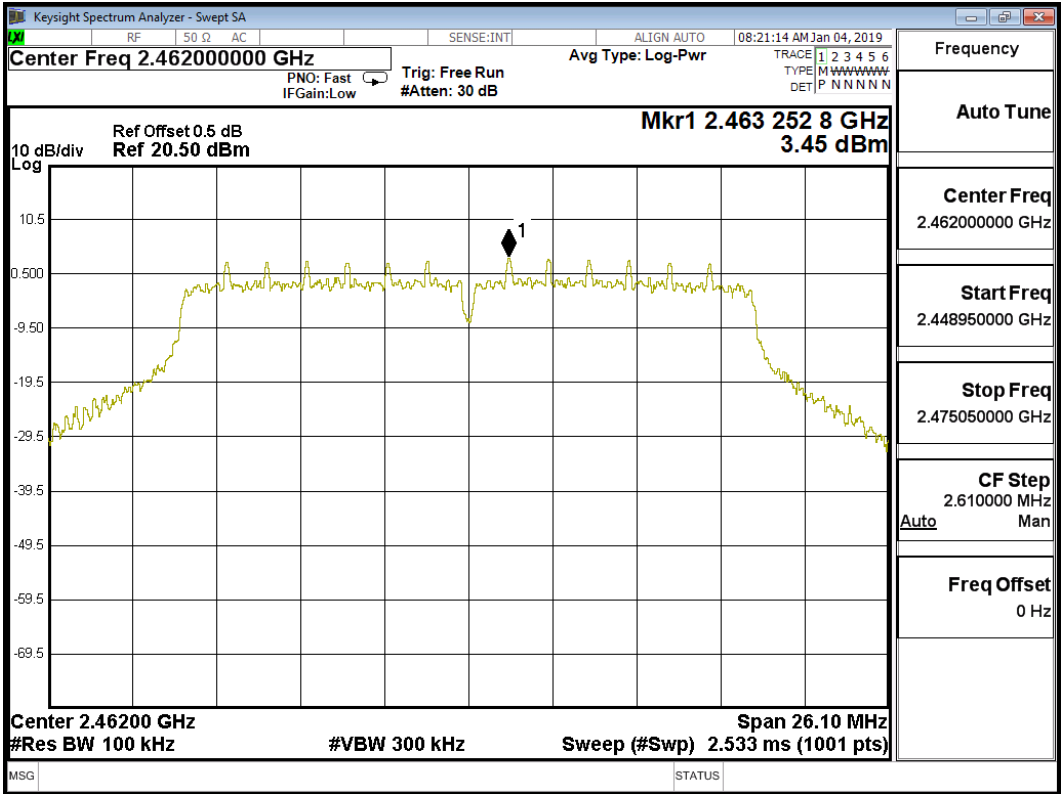


Figure Channel 11: (Chain B)

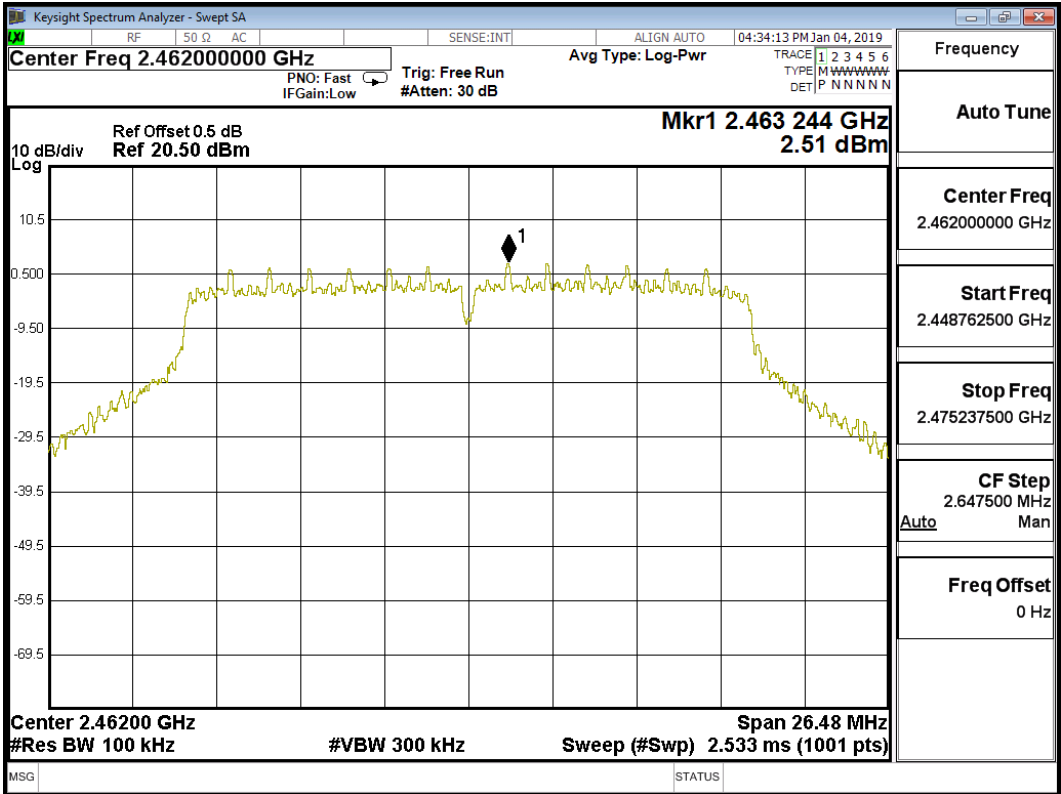


Figure Channel 12: (Chain A)

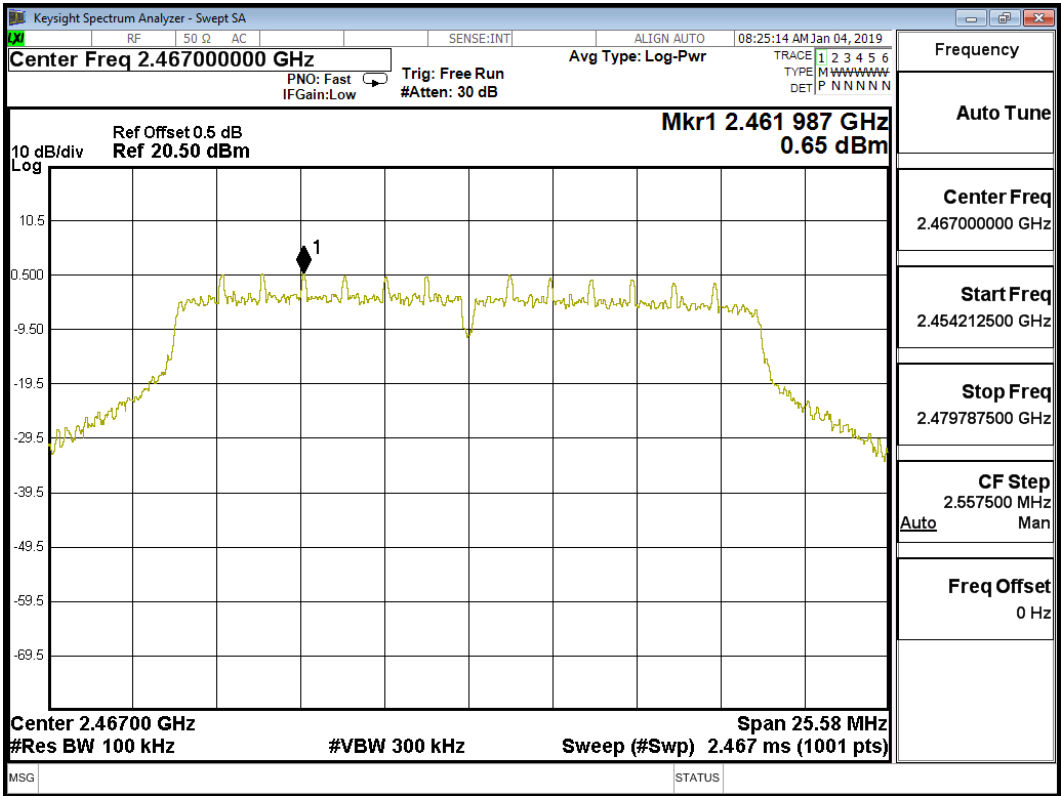


Figure Channel 12: (Chain B)

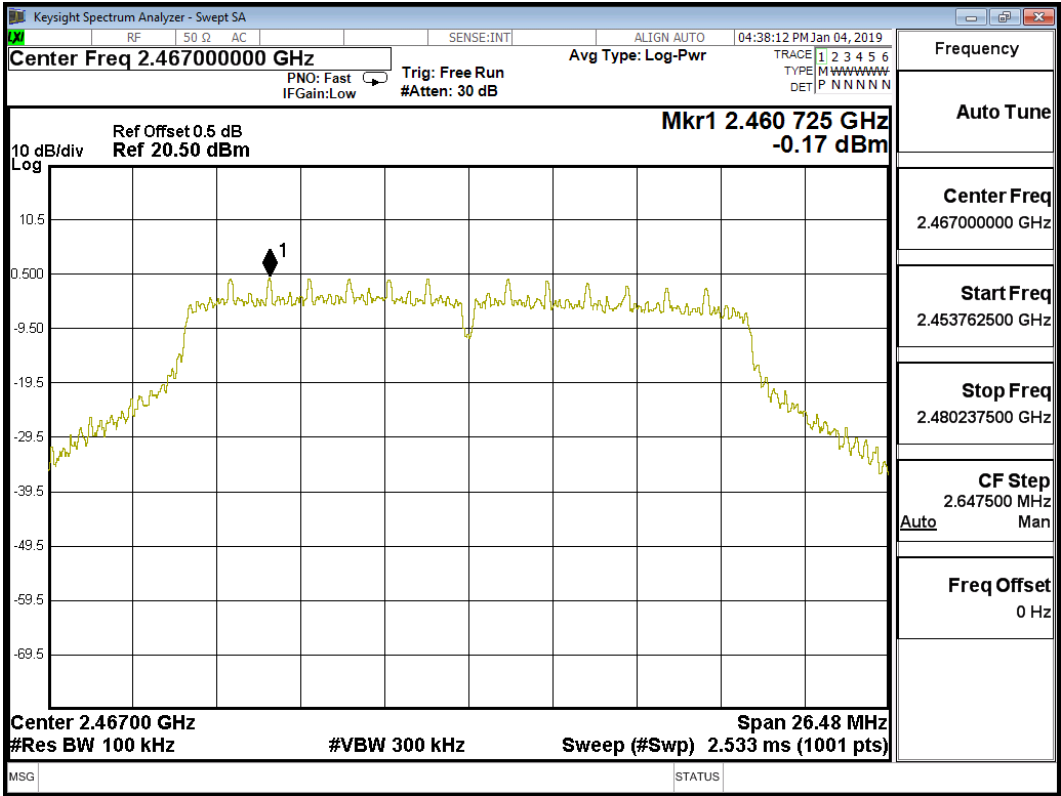


Figure Channel 13: (Chain A)

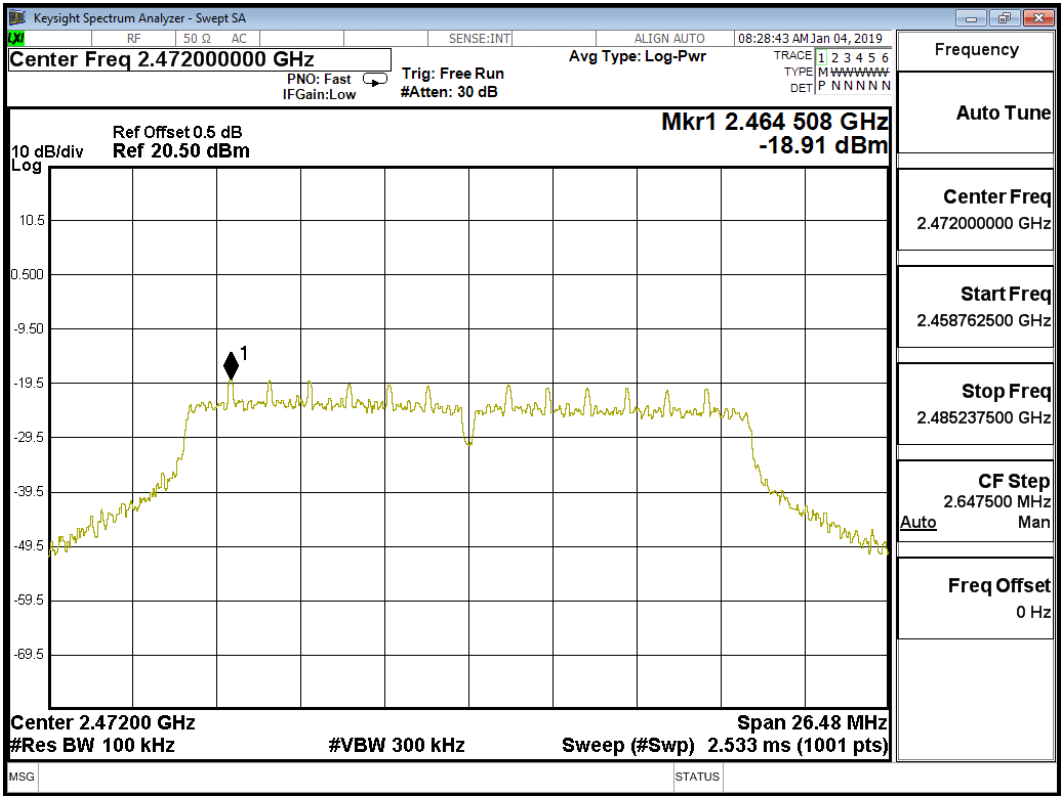
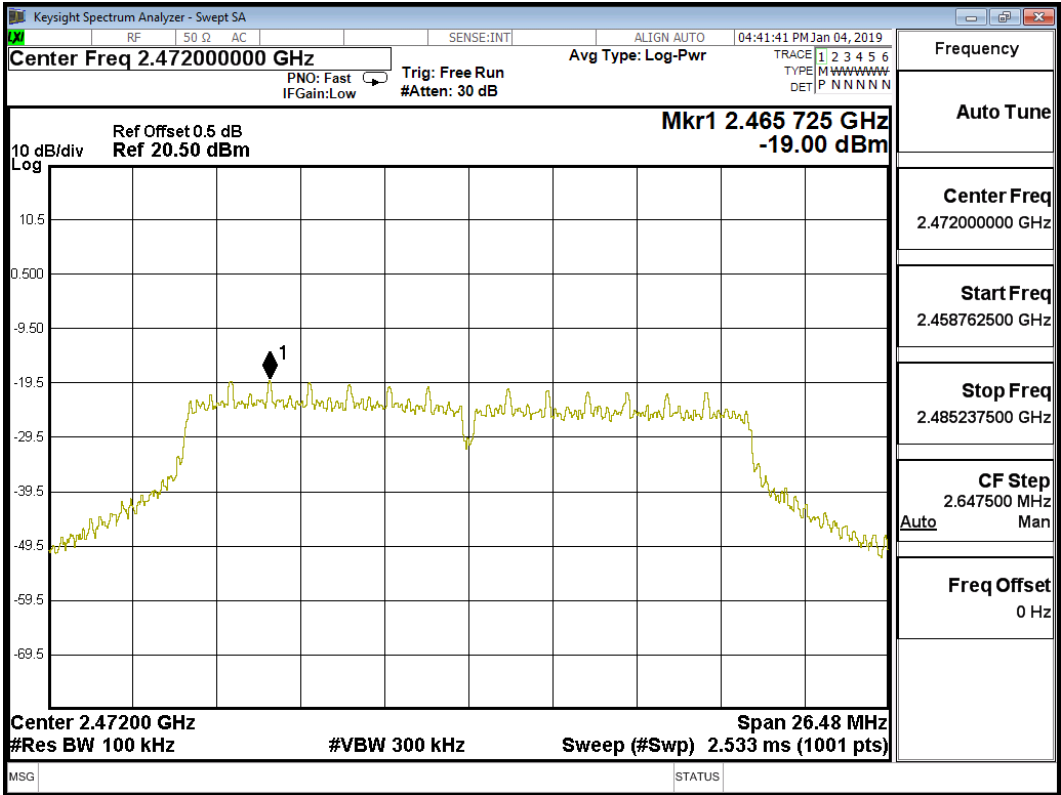


Figure Channel 13: (Chain B)



待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

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 °C

測試日期：108 年 01 月 04 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	A	-0.060	3.010	2.950	$\leq 8\text{dBm}$	Pass
		B	-0.740	3.010	2.270	$\leq 8\text{dBm}$	Pass
07	2442	A	0.470	3.010	3.480	$\leq 8\text{dBm}$	Pass
		B	-0.510	3.010	2.500	$\leq 8\text{dBm}$	Pass
09	2452	A	0.760	3.010	3.770	$\leq 8\text{dBm}$	Pass
		B	-0.160	3.010	2.850	$\leq 8\text{dBm}$	Pass
10	2457	A	-4.000	3.010	-0.990	$\leq 8\text{dBm}$	Pass
		B	-4.780	3.010	-1.770	$\leq 8\text{dBm}$	Pass
11	2462	A	-11.360	3.010	-8.350	$\leq 8\text{dBm}$	Pass
		B	-12.500	3.010	-9.490	$\leq 8\text{dBm}$	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)

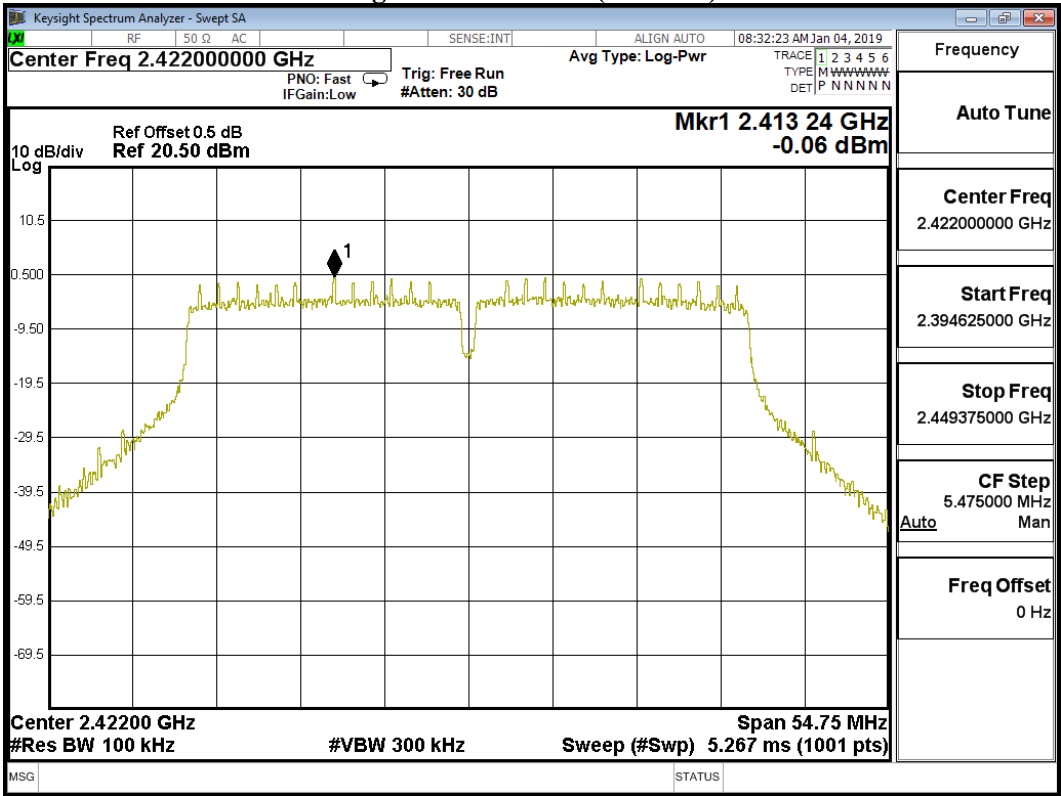


Figure Channel 03: (Chain B)

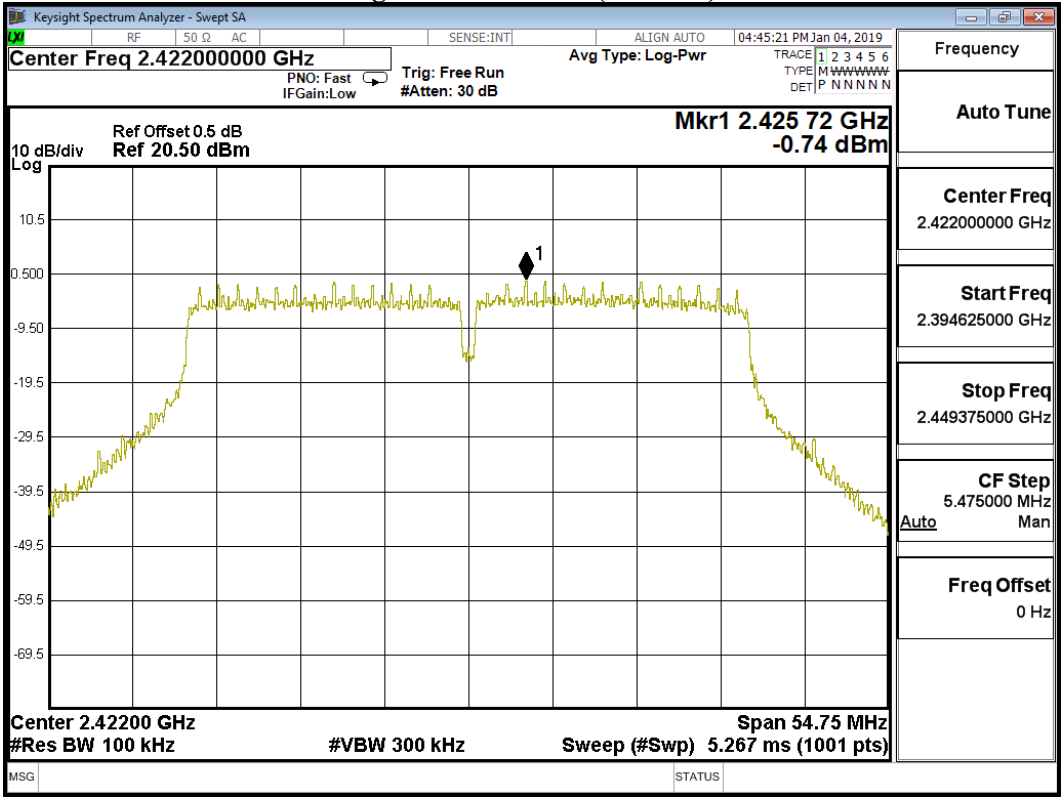


Figure Channel 07: (Chain A)

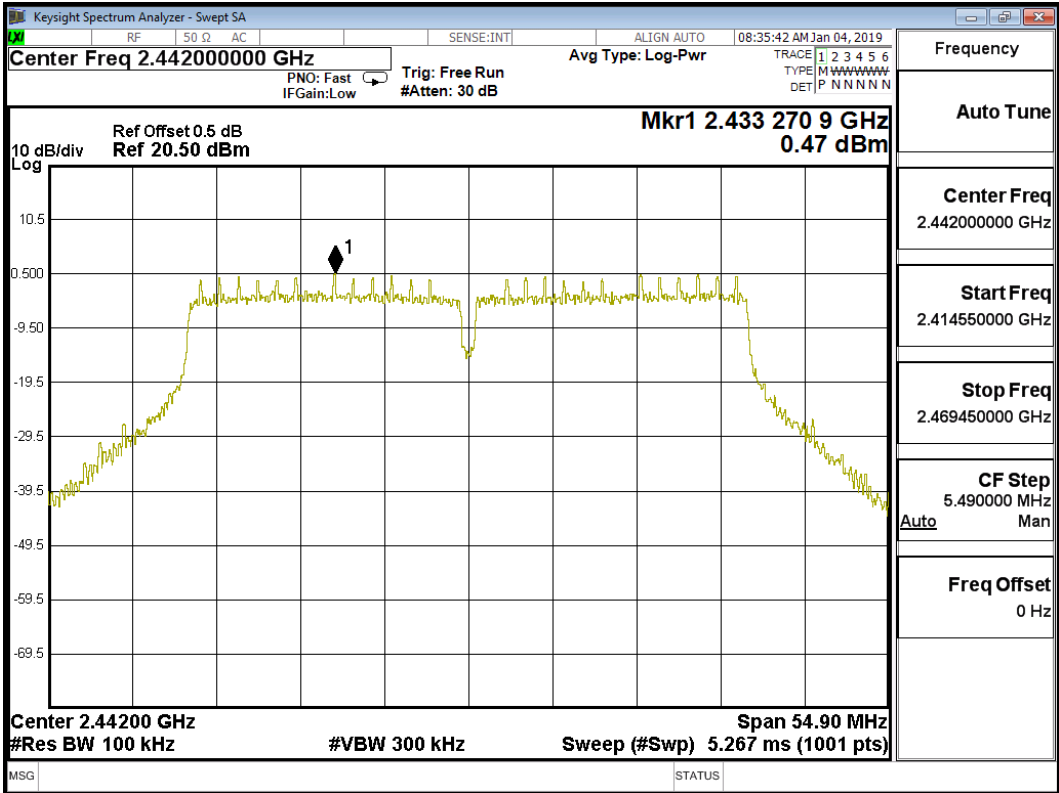


Figure Channel 07: (Chain B)

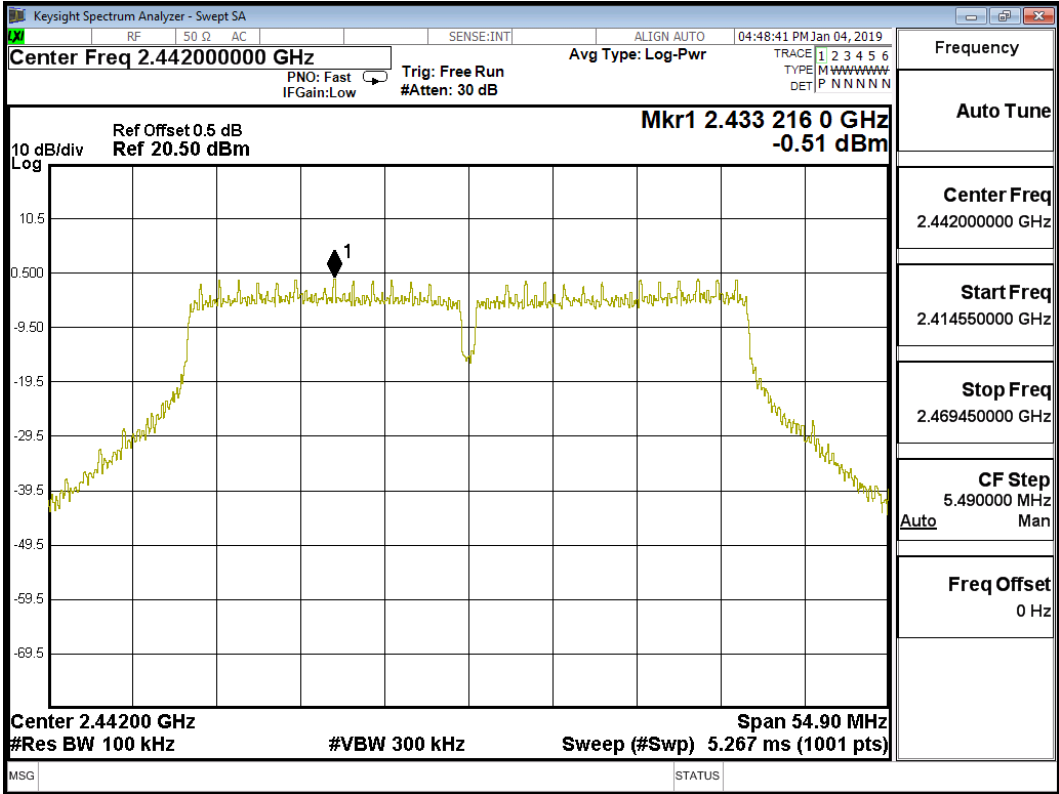


Figure Channel 09: (Chain A)

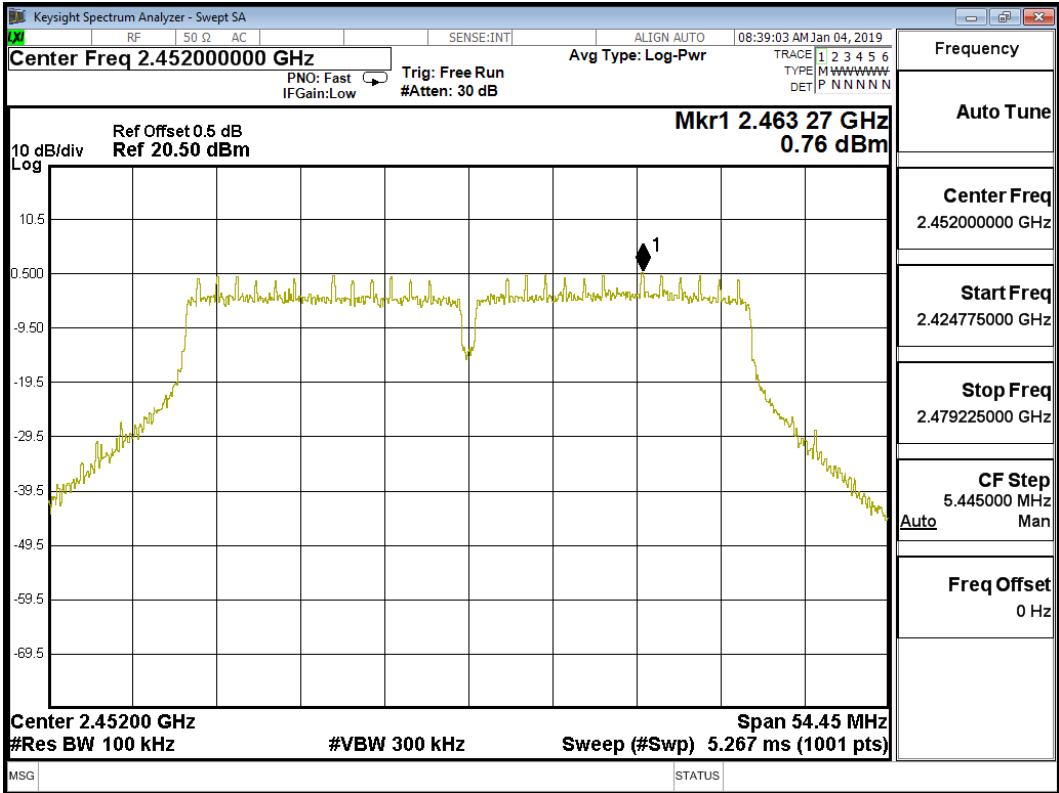


Figure Channel 09: (Chain B)

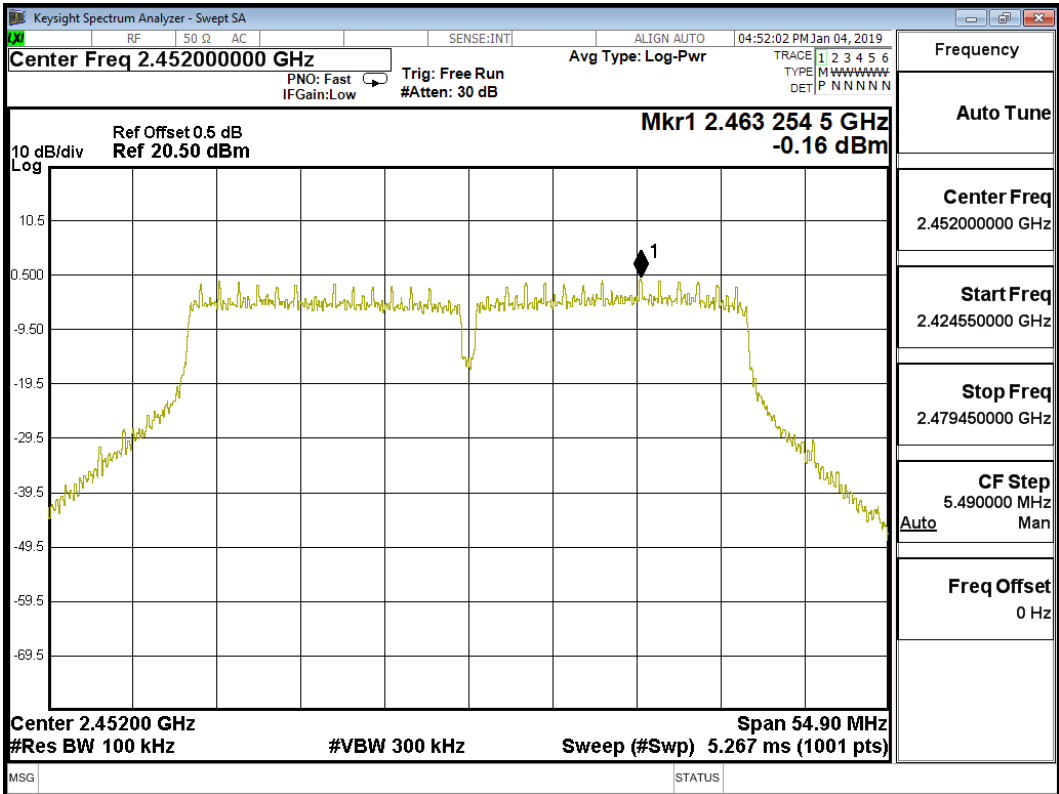


Figure Channel 10: (Chain A)

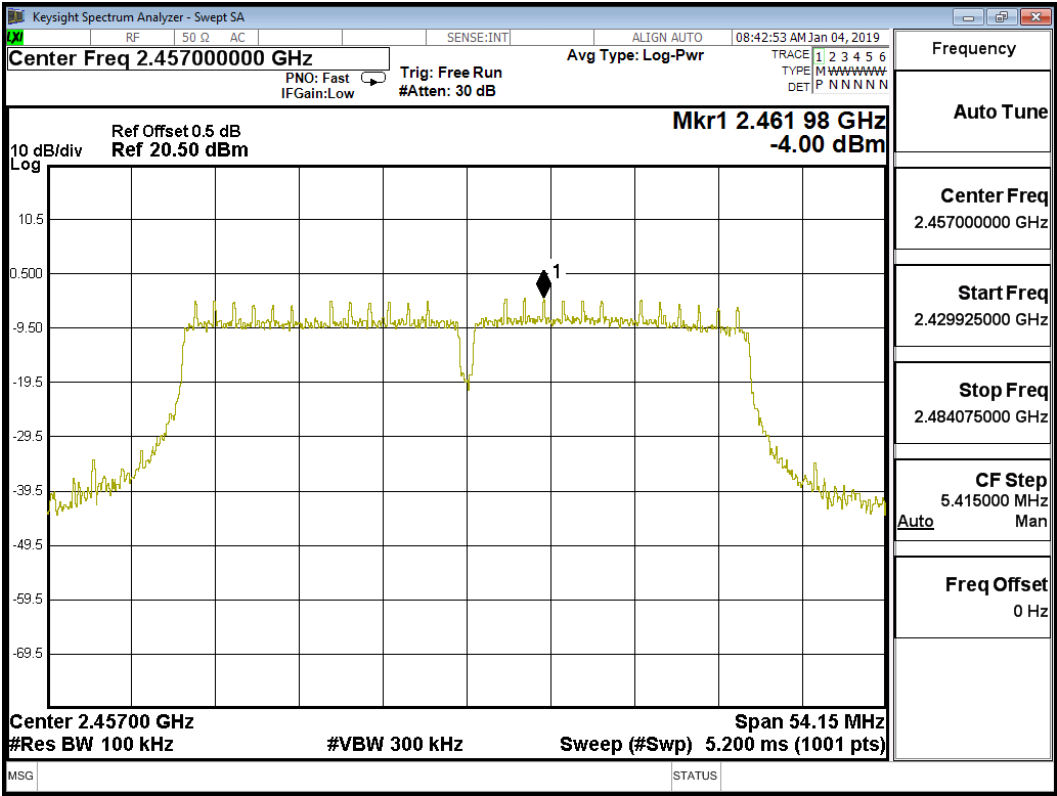


Figure Channel 10: (Chain B)

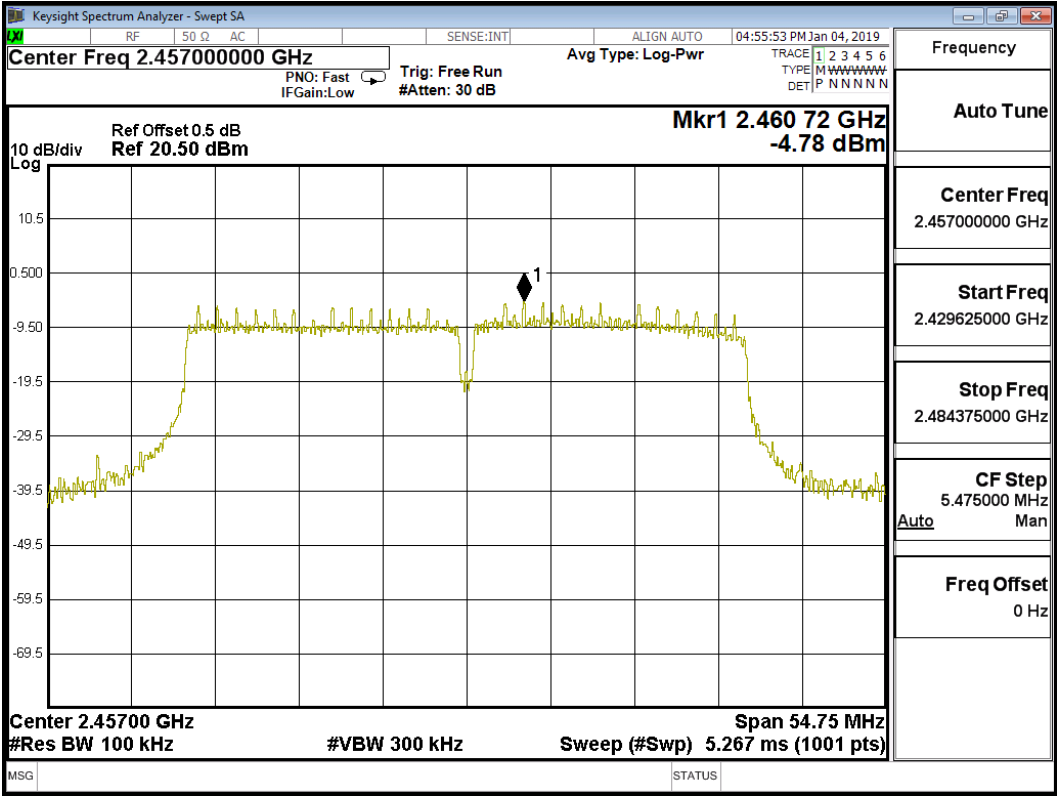


Figure Channel 11: (Chain A)

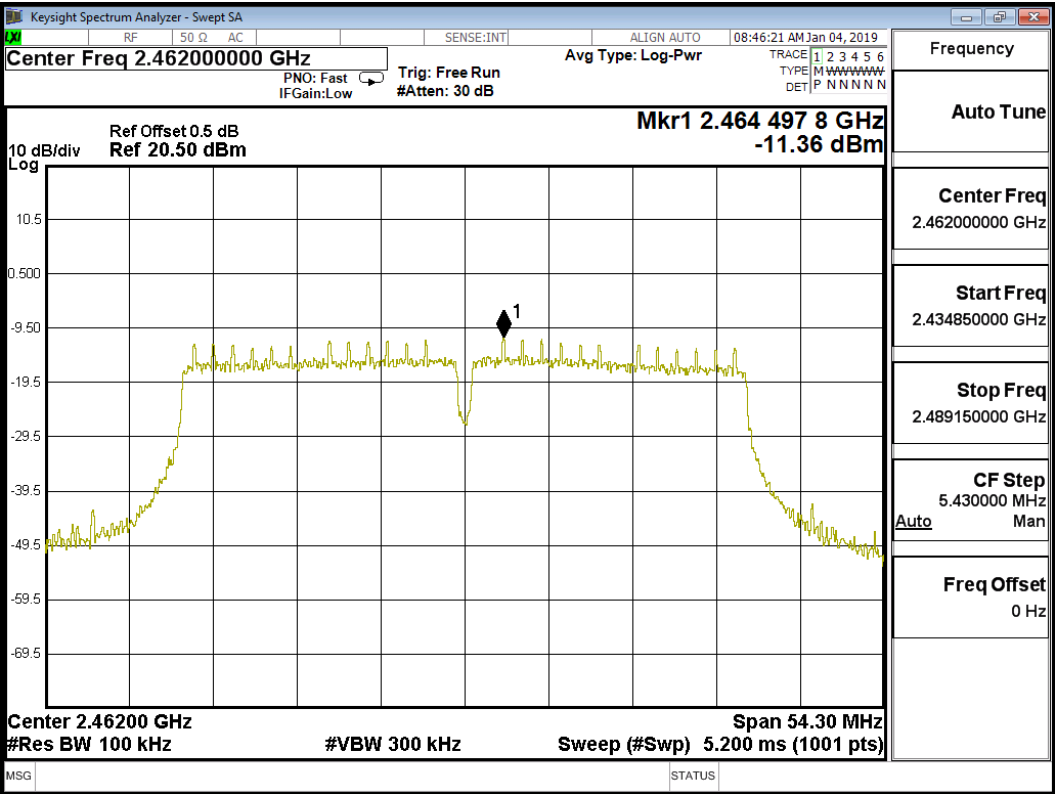
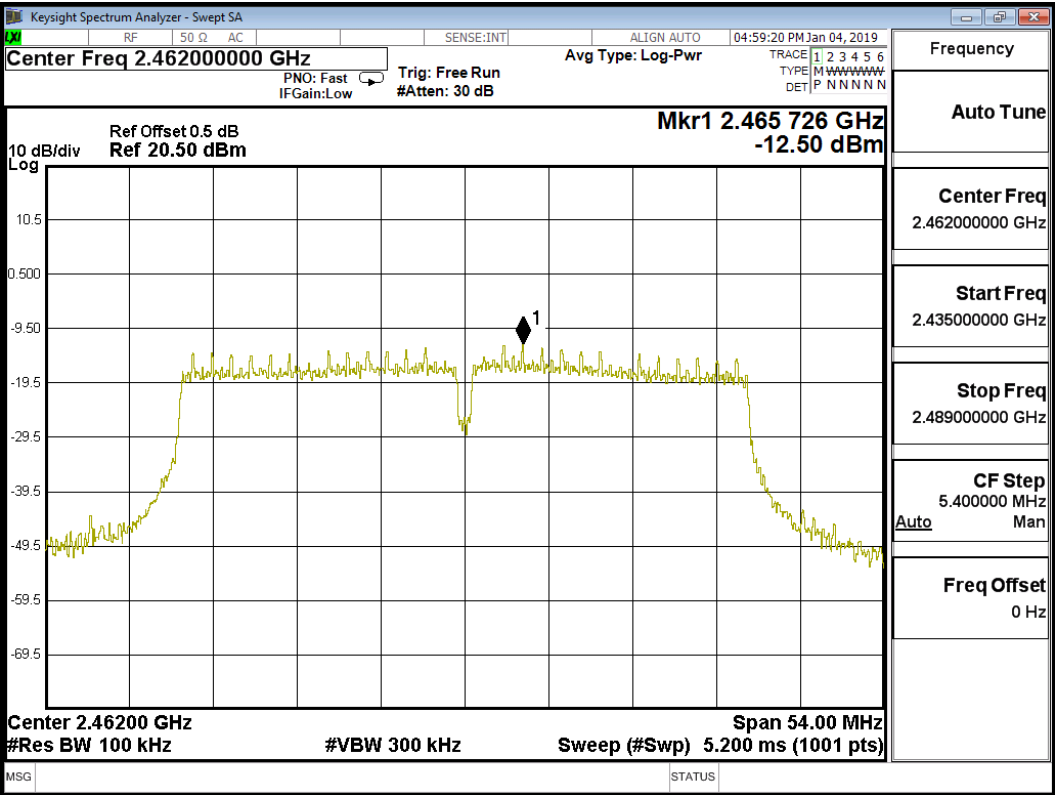


Figure Channel 11: (Chain B)



功率密度測試結果:

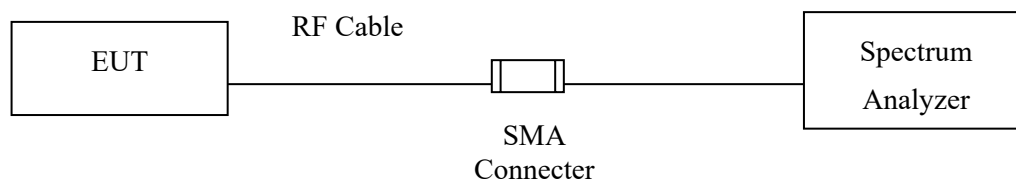
PASS

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 $\pm 2.31\text{msec}$

11.4. Duty Cycle 測試結果

待測物名稱：Intel® Wireless-AC 9260

待測物型號：9260D2WL

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：108年01月12日

測試項目：Duty Cycle

測試模式：--

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Duty Cycle Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$
$$\text{Duty Factor} = 10 \text{ Log } (1/\text{Duty Cycle})$$

Results:

SISO A

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	12.3623	12.7101	97.26	0.12
802.11g	2.0290	2.4203	83.83	0.77
802.11n20	1.8986	2.2609	83.98	0.76
802.11n40	0.9420	1.1232	83.87	0.76

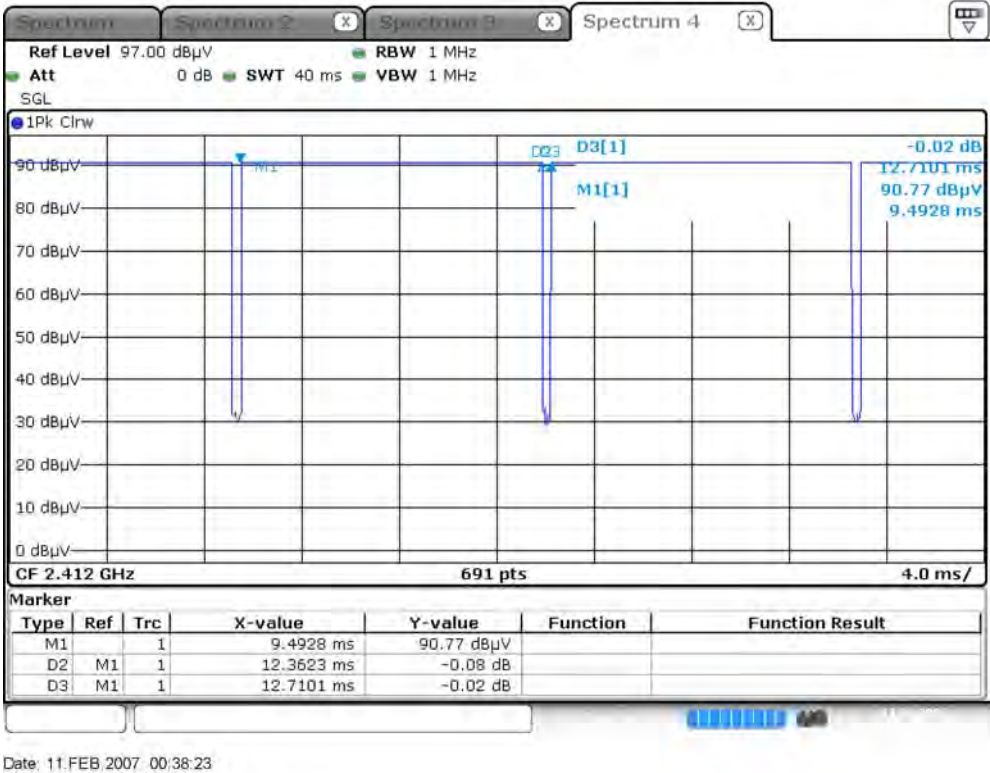
SISO B

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	12.3333	12.6957	97.15	0.13
802.11g	2.0290	2.4348	83.33	0.79
802.11n20	1.9130	2.2609	84.61	0.73
802.11n40	0.9130	1.1304	80.77	0.93

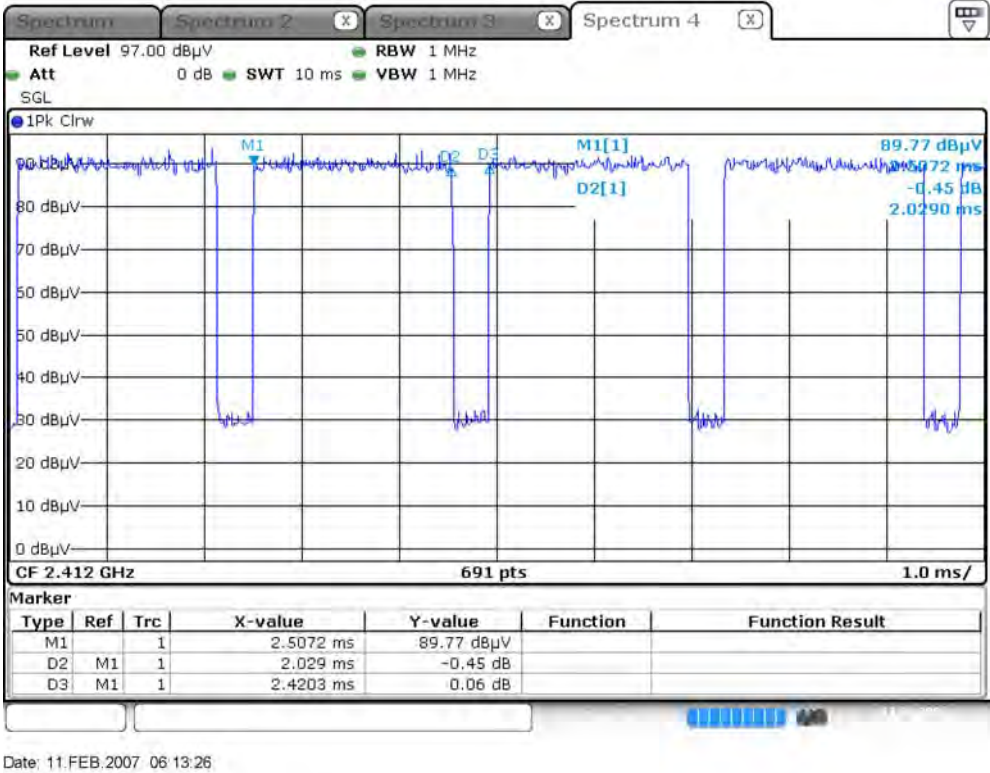
MIMO

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11n20	0.9623	1.1580	83.10	0.80
802.11n40	0.4551	0.5855	77.72	1.09

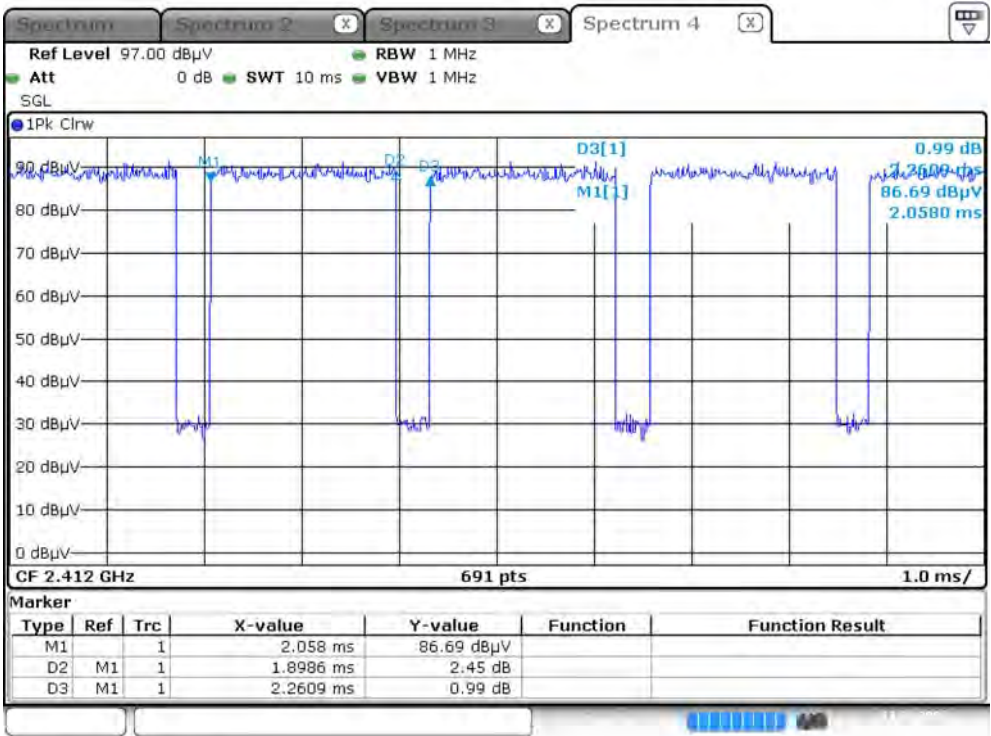
802.11b (SISO A)



802.11g (SISO A)

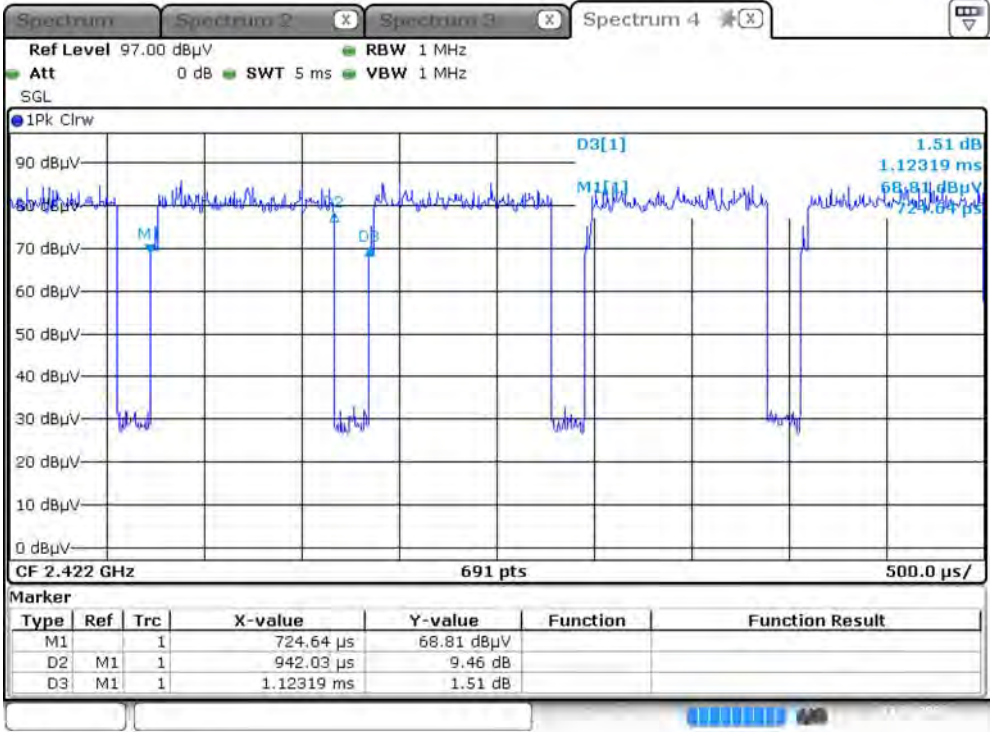


802.11n20 (SISO A)



Date: 11.FEB.2007 06:17:18

802.11n40 (SISO A)



Date: 11.FEB.2007 06:19:57

Ref Level -10.00 dBm Att 0 dB RBW 1 MHz VBW 1 MHz SGL

1Pk Clrw

M1[1] -26.35 dBm 14.1159 ms
D2[1] -0.06 dBm 12.3333 ms
D3[1] 0.02 dBm 12.6957 ms

CF 2.412 GHz 691 pts 5.0 ms/

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	14.1159 ms	-26.35 dBm		
D2	M1	1	12.3333 ms	-0.06 dB		
D3	M1	1	12.6957 ms	0.02 dB		

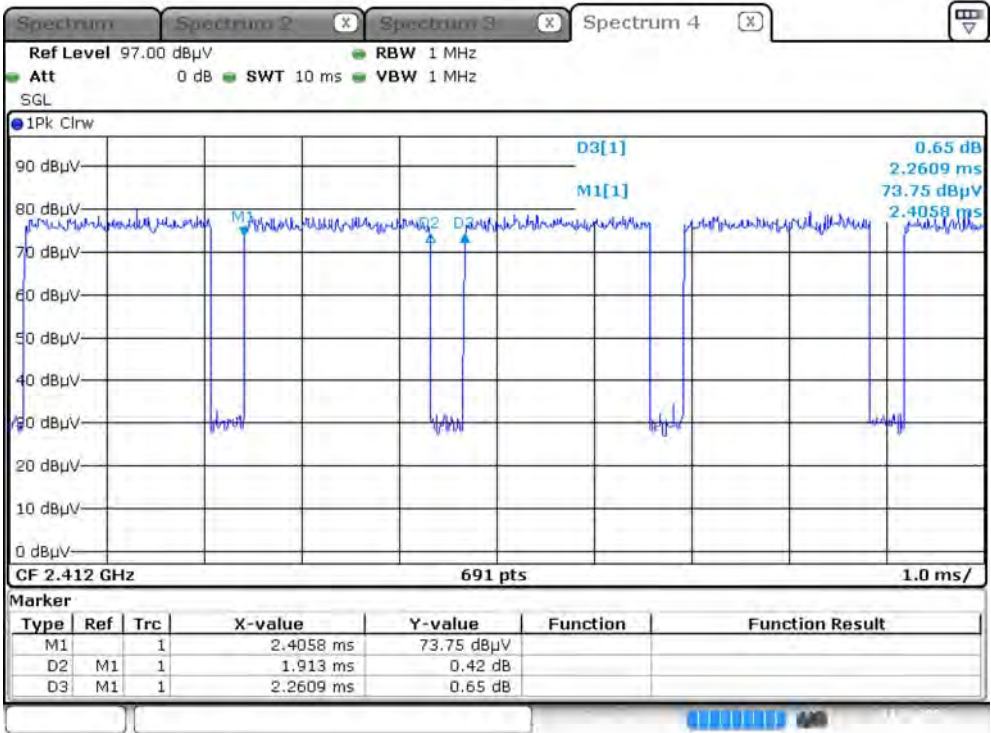
The screenshot shows a spectrum analyzer interface with the following settings and data:

- Settings:**
 - Ref Level: 107.00 dBμV
 - Att: 20 dB
 - SWT: 10 ms
 - RBW: 1 MHz
 - VBW: 1 MHz
 - SGL
- Plot:**
 - Trace: 1Pk Clrw
 - Frequency: 691 pts, CF 2.412 GHz, 1.0 ms/div
 - Y-axis: 10 dBμV to 100 dBμV
 - Markers: M1 (3.1449 ms, 93.66 dBμV), D2 (2.029 ms, 1.28 dB), D3 (2.4348 ms, 1.61 dB)
- Marker Data Table:**

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	3.1449 ms	93.66 dBμV		
D2	M1	1	2.029 ms	1.28 dB		
D3	M1	1	2.4348 ms	1.61 dB		

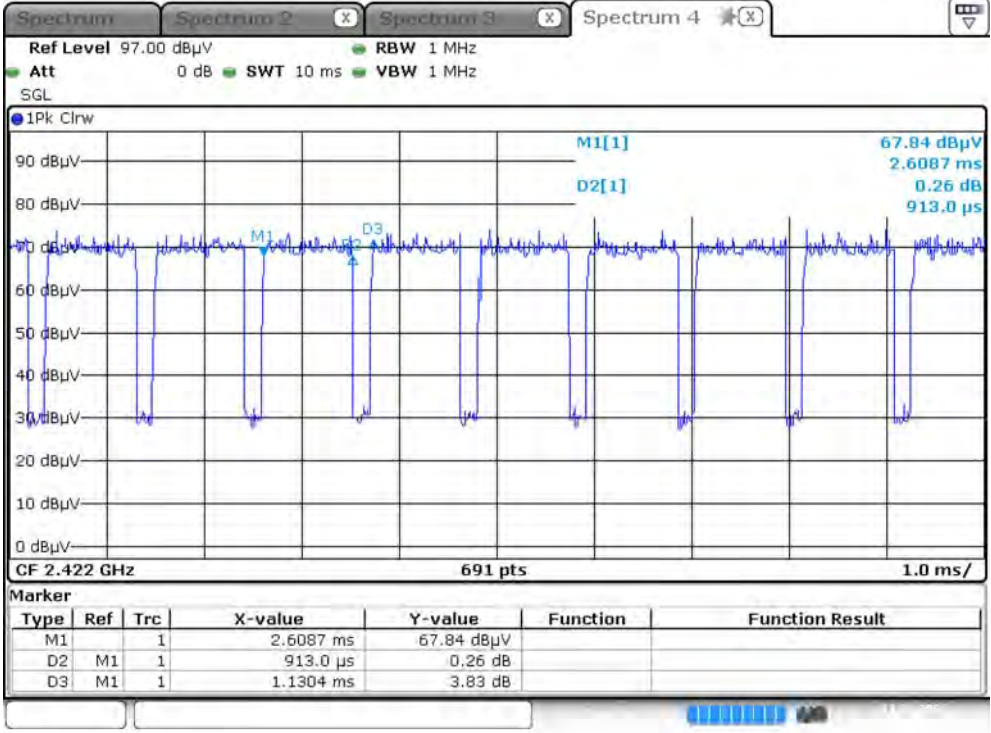
第 471 頁 共 473 頁

802.11n20 (SISO B)



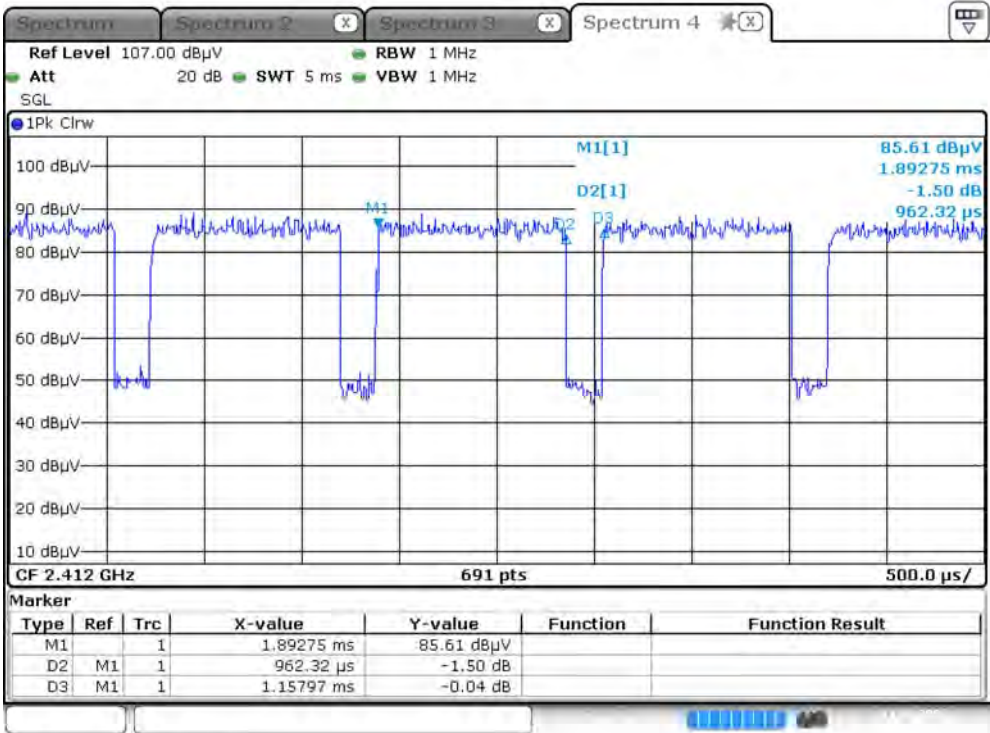
Date: 11.FEB.2007 23:03:24

802.11n40 (SISO B)



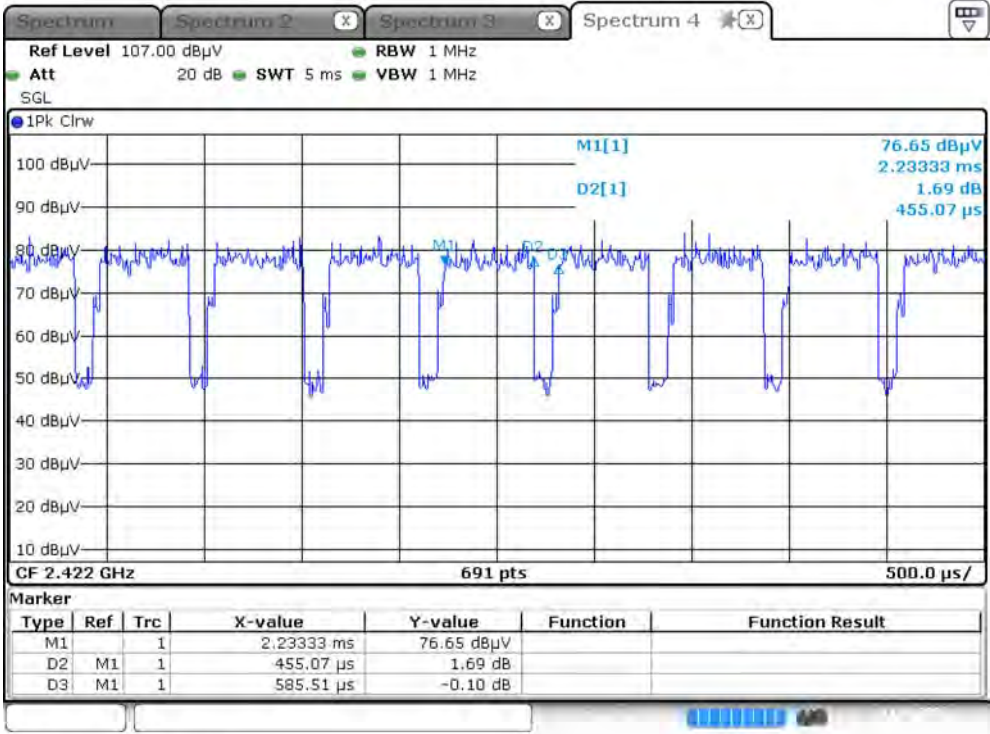
Date: 11.FEB.2007 23:05:32

802.11n20 (MIMO)



Date: 11.FEB.2007 20:46:09

802.11n40 (MIMO)



Date: 11.FEB.2007 20:48:10