

NCC 低功率射頻電機型式試驗報告

產品名稱(中文)	DIGITAL CAMERA
型號	R03030
廠牌	RICOH

申請者	富堃有限公司
地址	臺北市中正區開封街 1 段 37 號 8 樓

受理日期	108 年 08 月 21 日
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報告號碼	2020183R-RFTWP59V00-A
報告版本	V1.0



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低功率射頻電機量測報告

報告發行日期: 109 年 03 月 11 日

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產品名稱(中文)	DIGITAL CAMERA
申請者	富堃有限公司
地址	臺北市中正區開封街 1 段 37 號 8 樓
製造廠商	Ricoh Company, Ltd.
待測物額定電壓	DC 3.7V by Battery
待測物測試電壓	DC 3.7V by Battery
商標或廠牌	RICOH
型式號	R03030
Serial No.	A0K8WN000026
試驗標準	低功率射頻電機技術規範(107 年 01 月)
試驗結果	符合

項次	量測項目	標稱規格	測試結果	量測設備	量測不確定度
1	電源線傳導干擾	低功率射頻電機技術規範 2.3 節	PASS	請參閱 2.2 節	請參閱 3.4 節
2	峰值輸出功率	低功率射頻電機技術規範 3.10.1.2	PASS		請參閱 4.4 節
3	天線之要求	低功率射頻電機技術規範 3.10.1.3、4 節	PASS	--	--
4	場強輻射	低功率射頻電機技術規範 3.10.1.5 及 2.8 節	PASS	請參閱 2.2 節	請參閱 6.4 節
5	混附發射之 RF 傳導發射	低功率射頻電機技術規範 3.10.1.5	PASS		請參閱 7.4 節
6	使用頻率範圍外之 100 千赫雜訊	低功率射頻電機技術規範 3.10.1.5 及 2.8 節	PASS		請參閱 8.4 節
7	頻寬要求	低功率射頻電機技術規範 3.10.1.6	PASS		請參閱 9.4 節
8	發射電功率密度	低功率射頻電機技術規範 3.10.1.6	PASS		請參閱 10.4 節
9	Duty Cycle	--	--	--	請參閱 11.3 節
10	以下空白	--	--		--

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附件 2: 待測物內部相片

1. 基本資料

1.1. 待測物裝置資料

申請者(或公司)	富堃有限公司
地址	臺北市中正區開封街 1 段 37 號 8 樓
製造廠商	Ricoh Company, Ltd.
產品名稱	DIGITAL CAMERA
商標	RICOH
產品型號	R03030
天線樣式	Chip Antenna
天線增益	Refer to the table “Antenna List”
頻道控制	Auto
FW	V0.2B
USB Cable	Brand: 頤晨興; M/N: CR36900; Shielded, 0.3m, with one ferrite core bonded.

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	YAGEO	ANT8010LL04R2400A	Chip Antenna	0.2dBi for 2.4GHz

1.2. 待測裝置驗證說明

1. 待測裝置規格說明:

待測物為 DIGITAL CAMERA, 包含了 WiFi 功能, 此報告為 WiFi 的測試報告; 天線為 Chip 天線, 悉採 2.4GHz 為載波, 利用直接序列展頻調變方式(802.11b: 1 – 11Mbps)與數位調變方式(802.11g: 6 – 54Mbps, 802.11n: 7.2-72.2Mbps using 20MHz channel)來傳送訊號, 頻道 1、6、11 (802.11b/g/n-20MHz)被選擇為測試頻道, 速率 1Mbps (802.11b)與 6Mbps (802.11g)與 7.2Mbps (802.11n-20BW)被選擇為測試傳輸速率, 結果顯示於此份報告中。

(1) 待測裝置為同一體。

(2) 發射體主要功能特性有:

<1> 待測裝置利用無線電波, 分別借由無線電波, 傳送及接收, 達到資料傳送之目的。

<2> 待測裝置傳送訊號, 使用 2.4GHz 為載波頻率, 利用直接序列展頻調變方式與數位調變方式來傳送訊號, 且其天線為 Chip 天線。

<3> 基本發射工作頻率範圍 2.412 – 2.462GHz.

<4> 802.11b/g/n-20MHz 共計 11 個工作頻道, 工作頻道頻率為:

頻道	頻率	頻道	頻率	頻道	頻率
Channel 1:	2412 MHz	Channel 2:	2417 MHz	Channel 3:	2422 MHz
Channel 4:	2427 MHz	Channel 5:	2432 MHz	Channel 6:	2437 MHz
Channel 7:	2442 MHz	Channel 8:	2447 MHz	Channel 9:	2452 MHz
Channel 10:	2457 MHz	Channel 11:	2462 MHz		

<5> 頻道切換方式: 採自動切換控制方式。

<6> 調變方式: 採 DSSS 和 OFDM 調變方式。

<7> 傳輸速率: 802.11b: 1 – 11Mbps。

802.11g: 6 – 54Mbps。

802.11n: 7.2-72.2Mbps using 20MHz channel。

<8> 額定電壓: DC 3.7V (Power by Battery)。

<9> 測試電壓: DC 3.7V (Power by Battery)。

<10> 測試軟體: VendorCommandTool, Version.01.03.20190705。

2. 待測裝置測試之試驗條件

待測裝置依功能特性, 執行下列電磁干擾驗證測試。

EMI 模式	Mode 1: 發射器 802.11b Mode 1: 發射器 802.11g Mode 1: 發射器 802.11n (20MHz) Mode 2: 接收器 802.11n (20MHz)
--------	--

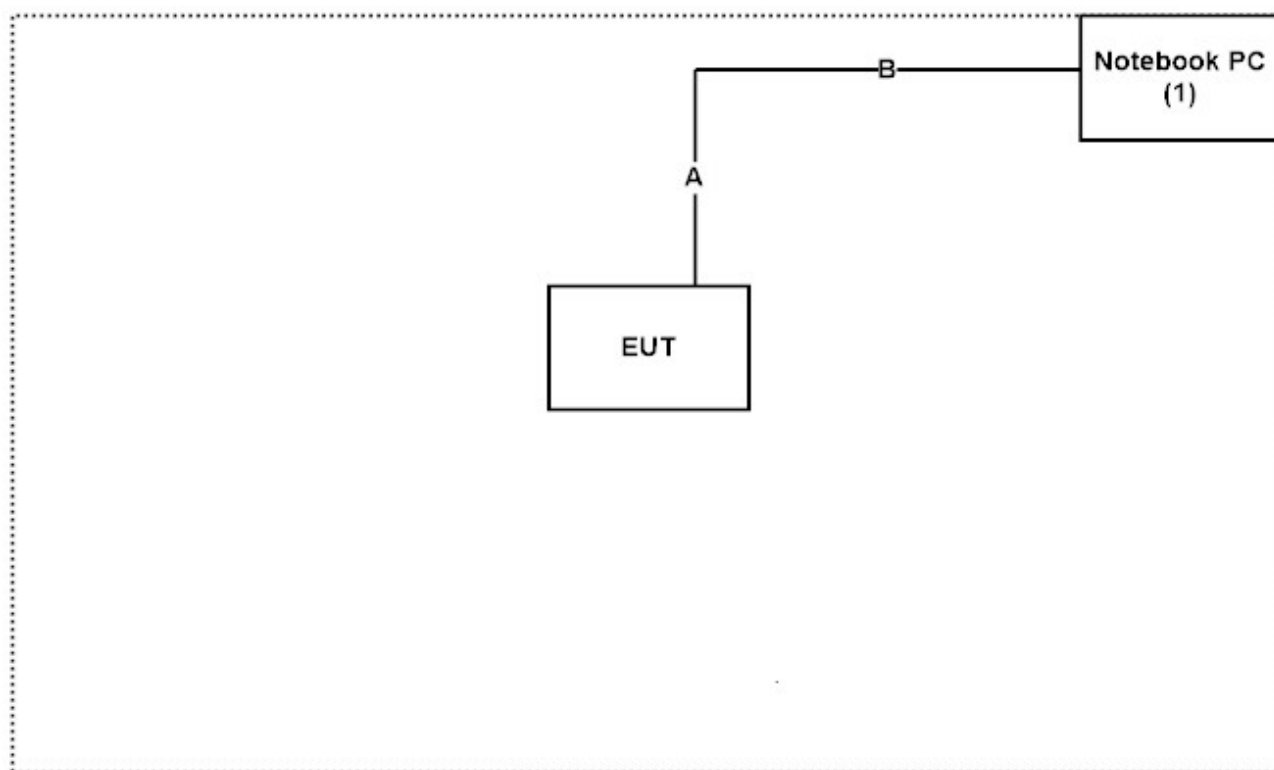
1.3. 系統測試時之週邊裝置

發射器模式 & 接收器模式：

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude E5440	B6TYTZ1	Non-Shielded, 0.8m

Signal Cable Type	Signal cable Description	
A	USB Cable	Brand: 頤晨興; M/N: CR36900; Shielded, 0.3m, with one ferrite core bonded.
B	USB Cable	Brand: bluechargedirect; M/N: NLUSB2-020; Non-Shielded, 1.7m.

1.4. 測試系統組合圖



1.5. 待測裝置測試時之典型操作程序

1.	測試配置如上圖 1.4 所示
2.	執行 VendorCommandTool, Version.01.03.20190705 程式
3.	設定所要測試之模式、頻道及速率
4.	確認訊號為持續發射狀態模式，無誤後開始測試

2. 測試實驗室資料

2.1. 試驗單位與週遭環境

實驗室環境條件:

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15~35 °C	23 °C
	Humidity (%RH)	20~75 %	50 %
Radiated Emission	Temperature (°C)	15~35 °C	23 °C
	Humidity (%RH)	20~75 %	55 %
Conductive	Temperature (°C)	15~35 °C	20 °C
	Humidity (%RH)	20~75 %	52 %

財團法人全國認證基金會 認證

特定服務計畫：電信設備測試實驗室認證服務計畫

初次認證日期：一百零三年十月二十四日

認證有效期間：一百零六年十二月十三日起至一百零九年十二月十二日止

認可測試領域：低功率射頻電機(工作頻率9kHz to 220GHz)

認可編號：3023

測試實驗室：德凱認證股份有限公司

測試實驗室地址：新北市林口區瑞平里瑞樹坑5-22號

電話號碼：+886-2-8601-3788

傳真號碼：+886-2-8601-3789

電子郵件信箱：info.tw@dekra.com

公司網站：<http://www.dekra.com.tw>

2.2. 測試設備明細

For Conducted measurements /CB3/SR8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
	Temperature Chamber	WIT GROUP	TH-1S-B	EQ-201-00146	2020/02/26	2021/02/25
X	Spectrum Analyzer	Agilent	N9010A	MY53470892	2019/09/27	2020/09/26
X	Peak Power Analyzer	Keysight	8990B	MY51000410	2019/08/01	2020/07/31
X	Wideband Power Sensor	Keysight	N1923A	MY56080003	2019/07/25	2020/07/24
X	Wideband Power Sensor	Keysight	N1923A	MY56080004	2019/07/25	2020/07/24
X	EMI Test Receiver	R&S	ESCS 30	100369	2019/11/19	2020/11/18
X	LISN	R&S	ENV216	101105	2019/03/30	2020/03/29
X	LISN	R&S	ESH3-Z5	836679/014	2019/04/02	2020/04/01
X	Coaxial Cable	DEKRA	RG 400	LC018-RG	2019/06/21	2020/06/20

For Radiated measurements /Site3/CB8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
X	Spectrum Analyzer	R&S	FSP40	100170	2019/03/11	2020/03/10
X	Loop Antenna	Teseq	HLA6121	37133	2019/10/13	2020/10/12
X	Bilog Antenna	Schaffner Chase	CBL6112B	2707	2019/06/24	2020/06/23
X	Coaxial Cable	DEKRA	RG 214	LC003-RG	2019/06/14	2020/06/13
X	Pre-Amplifier	Jet-Power	JPA-10M1G33	170101000330010	2019/06/14	2020/06/13
X	Horn Antenna	ETS-Lindgren	3117	00135205	2019/05/03	2020/05/02
X	Horn Antenna	SCHWARZBECK	9120D	576	2019/12/18	2020/12/17
X	Pre-Amplifier	EMCI	EMC012630SE	980210	2019/04/10	2020/04/09
	Horn Antenna	Com-Power	AH-840	101043	2020/01/09	2021/01/08
	Amplifier + Cable	EMCI	EMC184045SE	980370	2019/03/21	2020/03/20
X	Filter	MICRO-TRONICS	BRM50702	G270	2019/08/06	2020/08/05
	Filter	MICRO-TRONICS	BRM50716	G196	2019/08/06	2020/08/05

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “X” are used to measure the final test results.
3. Test Software version :QuieTek EMI 2.0 V2.1.113.

2.3. 量測不確定度

不確定度已根據 DEKRA 內部文件進行了計算，並在本報告的每個測試章節中進行了描述。

報告的擴展不確定性是基於標準不確定性乘以 $k = 2$ 的覆蓋因子得出的，置信度約為 95%。

對各個測試系統與伴隨的連接設施，所執行的量測項目的量測不確定度，在此提供做為系統資訊的參考，符合性決定不考慮測試系統的不確定度而是基於符合性測試的結果。

3. 電源端點干擾測試

3.1. 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 2.3 節，以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150 千赫(kHz)至 30 兆赫(MHz)之射頻電壓(在電源端子每一電源線對接地點)不得超過下表所列之限值。測量時應經過 50 微亨利(μ H)及 50 歐姆(Ω)之電源線阻抗模擬網路(LISN)。頻率重疊處，以較低限值為準。

Frequency 頻率範圍 MHz	傳導限制值(dBuV)	
	準尖峰值	平均值
0.15 - 0.50	66-56 _(註)	56-46 _(註)
0.50-5.0	56	46
5.0 - 30	60	50

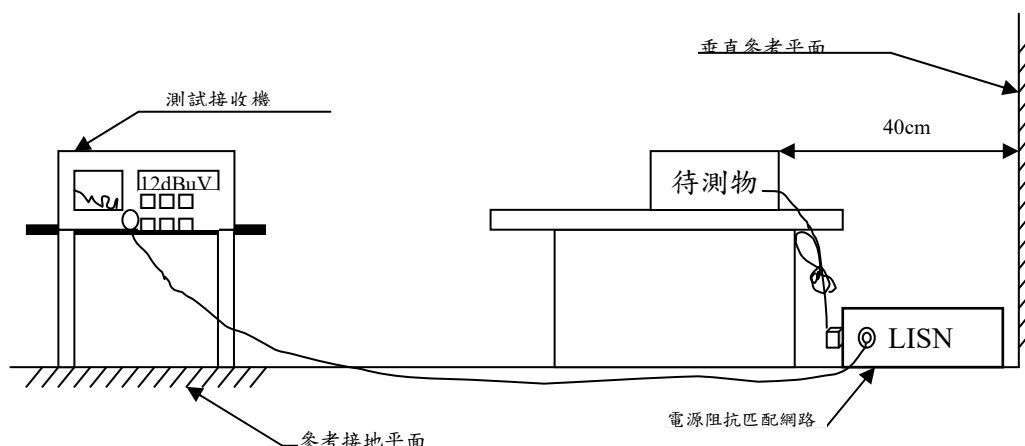
註:隨頻率之對數遞減

3.2. 量測方法

待測物置於高 80 公分之非導體桌面（落地型產品置於地上），將待測物之電源線接至電源阻抗網路器(LISN)，同時保持待測物至 LISN 距 80 公分，並將電源線多餘部份以 30 至 40 公分之八字形捆綁於電源線中央，於在正常工作狀態下，執行待測物之火線及地線各一次量測。

電源端點場強之測量範圍由 0.15MHz－30MHz，所量測之讀值皆為準尖峰值(Quasi-Peak Value)及平均值(Average Value)。場強接收機之解析頻寬為 10kHz。

3.3. 測試架構圖



3.4. 量測不確定度

此項測試之量測不確定度為 $\pm 2.26\text{dB}$ 。

Note: 經初測驗證過，電源端點干擾測試對測試頻道數並無差異，因此檢附其中一個測試頻道之測試數據。

3.5. 電源端點測試結果

待測物名稱: DIGITAL CAMERA

待測物型號: R03030

測試頻道: CH 06 (2437MHz)

6 dB 頻寬: 10 kHz

檢測器: 準尖峰值 & 平均值

測試日期: 108 年 08 月 28 日

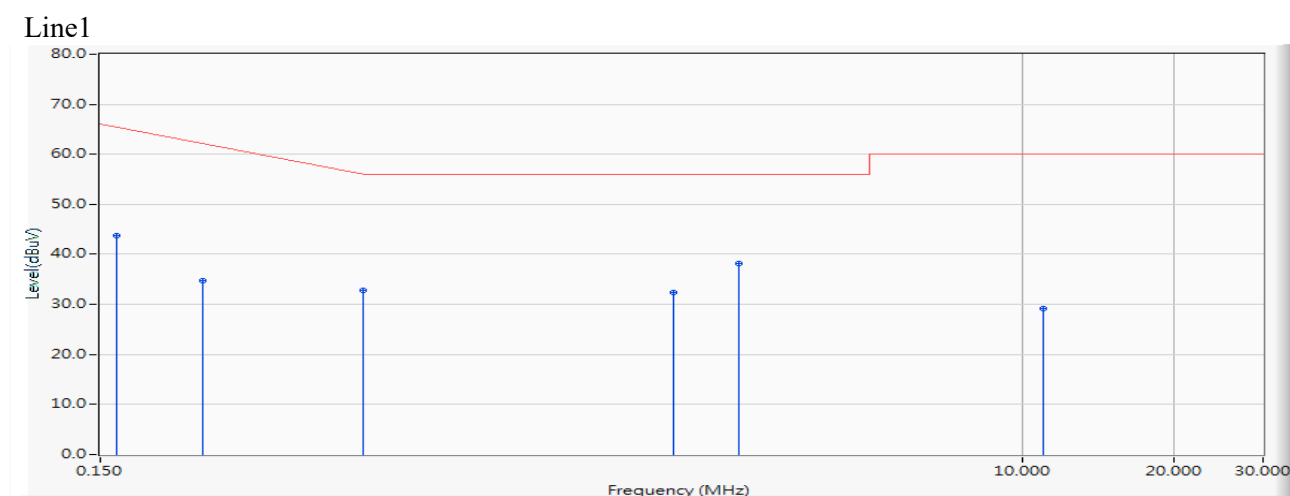
測試模式: Mode 1: 發射器 802.11n (20MHz)

試驗端點: Line 1

視頻頻寬: 10 kHz

環境溫度: 23 °C

環境濕度: 50 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.668	34.100	43.768	-21.889	65.657	QUASIPeAK
2		0.240	9.673	24.980	34.653	-28.776	63.429	QUASIPeAK
3		0.498	9.687	23.200	32.887	-23.170	56.057	QUASIPeAK
4		2.037	9.781	22.560	32.341	-23.659	56.000	QUASIPeAK
5	*	2.744	9.802	28.440	38.242	-17.758	56.000	QUASIPeAK
6		11.005	10.030	19.220	29.250	-30.750	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "*" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

待測物名稱: DIGITAL CAMERA

待測物型號: R03030

測試頻道: CH 06 (2437MHz)

6 dB 頻寬: 10 kHz

檢測器: 準尖峰值 & 平均值

測試日期: 108 年 08 月 28 日

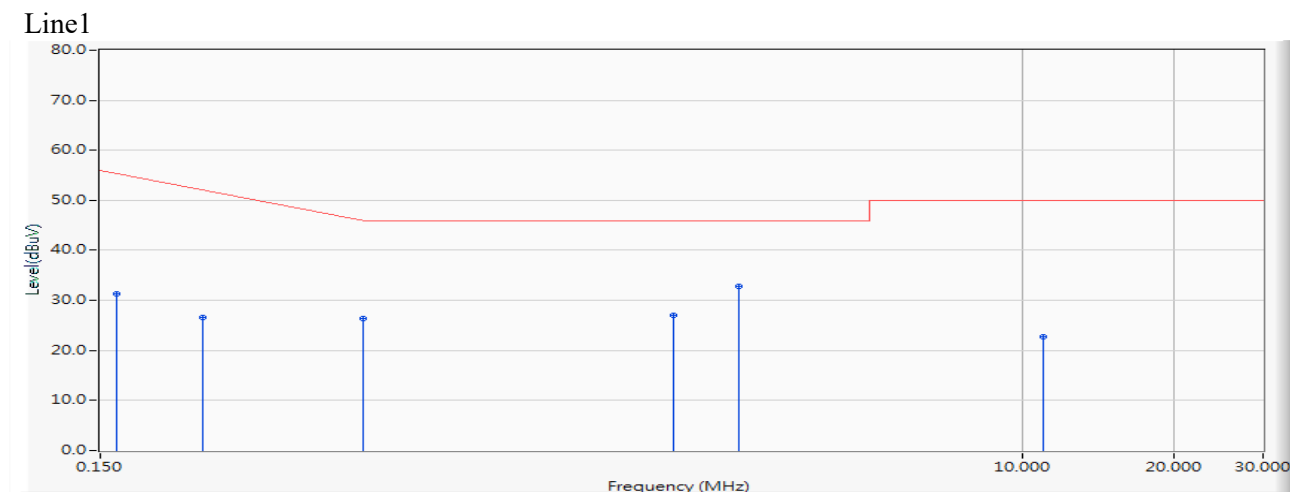
測試模式: Mode 1: 發射器 802.11n (20MHz)

試驗端點: Line 1

視頻頻寬: 10 kHz

環境溫度: 23 °C

環境濕度: 50 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.668	21.550	31.218	-24.439	55.657	AVERAGE
2		0.240	9.673	16.950	26.623	-26.806	53.429	AVERAGE
3		0.498	9.687	16.750	26.437	-19.620	46.057	AVERAGE
4		2.037	9.781	17.150	26.931	-19.069	46.000	AVERAGE
5	*	2.744	9.802	23.070	32.872	-13.128	46.000	AVERAGE
6		11.005	10.030	12.660	22.690	-27.310	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "*" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：10 kHz

檢測器：準尖峰值 & 平均值

測試日期：108 年 08 月 28 日

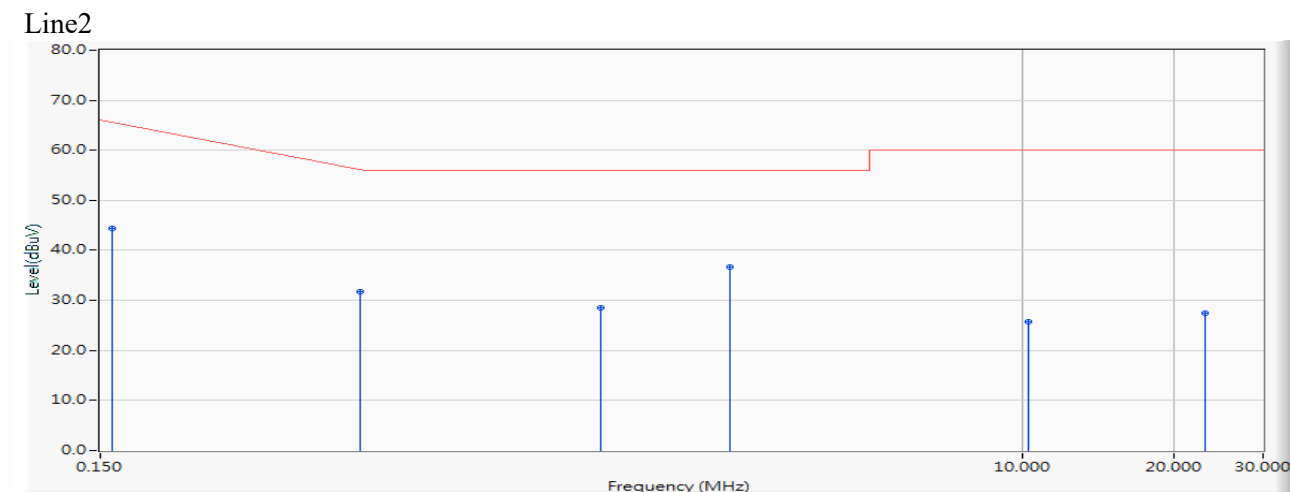
測試模式：Mode 1: 發射器 802.11n (20MHz)

試驗端點：Line 2

視頻頻寬：10 kHz

環境溫度：23 °C

環境濕度：50 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.708	34.760	44.468	-21.303	65.771	QUASIPeAK
2		0.490	9.716	22.040	31.756	-24.530	56.286	QUASIPeAK
3		1.466	9.779	18.760	28.539	-27.461	56.000	QUASIPeAK
4	*	2.638	9.840	26.880	36.720	-19.280	56.000	QUASIPeAK
5		10.267	10.090	15.580	25.670	-34.330	60.000	QUASIPeAK
6		23.064	10.410	17.120	27.530	-32.470	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "*" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：10 kHz

檢測器：準尖峰值 & 平均值

測試日期：108 年 08 月 28 日

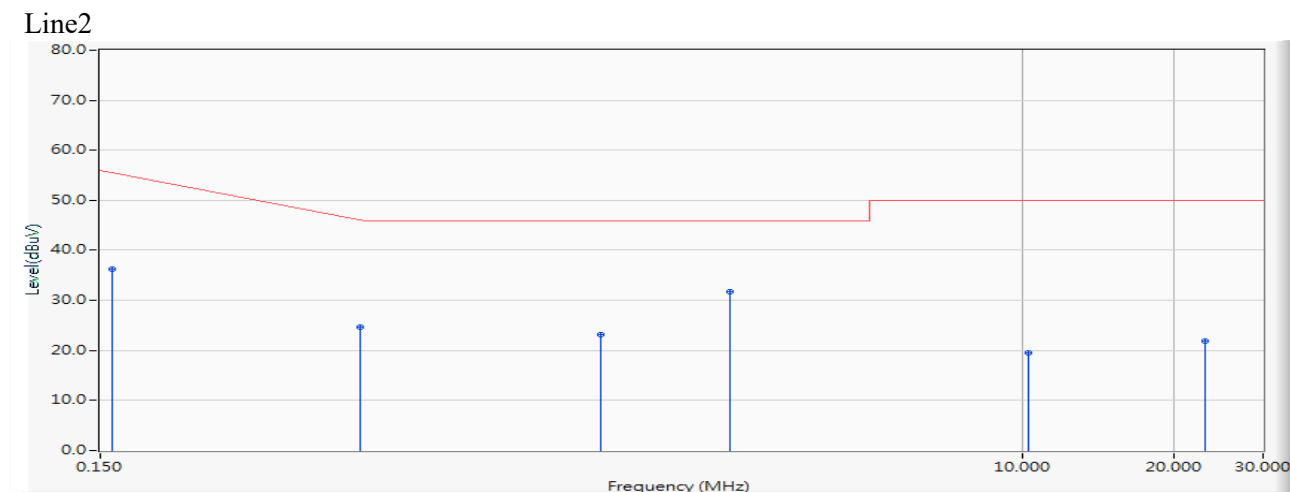
測試模式：Mode 1: 發射器 802.11n (20MHz)

試驗端點：Line 2

視頻頻寬：10 kHz

環境溫度：23 °C

環境濕度：50 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.708	26.490	36.198	-19.573	55.771	AVERAGE
2		0.490	9.716	14.850	24.566	-21.720	46.286	AVERAGE
3		1.466	9.779	13.300	23.079	-22.921	46.000	AVERAGE
4	*	2.638	9.840	21.840	31.680	-14.320	46.000	AVERAGE
5		10.267	10.090	9.510	19.600	-30.400	50.000	AVERAGE
6		23.064	10.410	11.520	21.930	-28.070	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "*" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

待測物名稱: DIGITAL CAMERA

待測物型號: R03030

測試頻道: CH 06 (2437MHz)

6 dB 頻寬: 10 kHz

檢測器: 準尖峰值 & 平均值

測試日期: 108 年 08 月 28 日

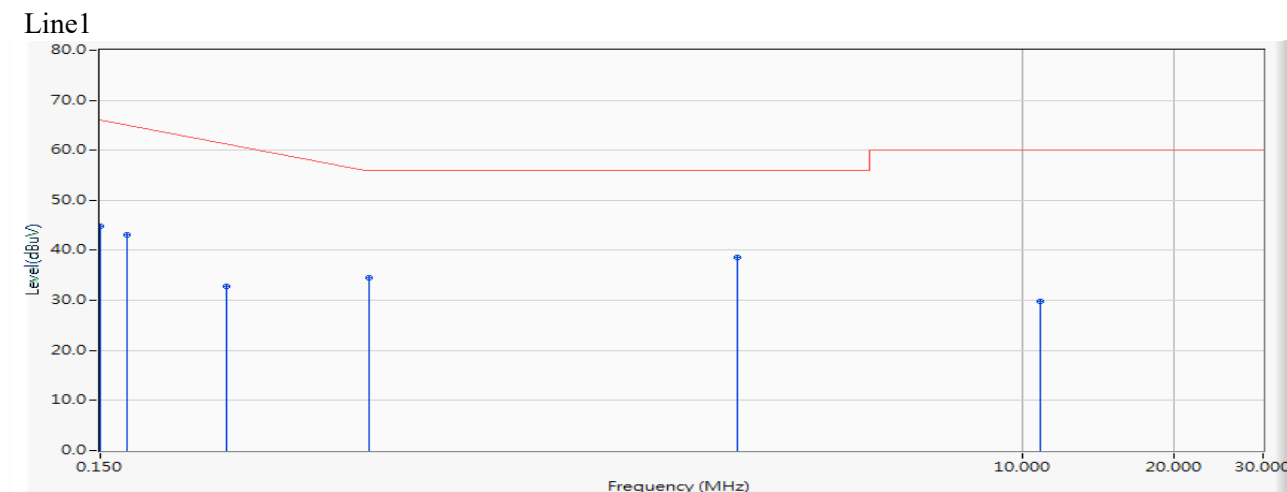
測試模式: Mode 2: 接收器 802.11n (20MHz)

試驗端點: Line 1

視頻頻寬: 10 kHz

環境溫度: 23 °C

環境濕度: 50 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.668	35.120	44.788	-21.212	66.000	QUASIPeAK
2		0.170	9.669	33.340	43.009	-22.420	65.429	QUASIPeAK
3		0.267	9.674	23.140	32.814	-29.843	62.657	QUASIPeAK
4		0.509	9.687	24.900	34.587	-21.413	56.000	QUASIPeAK
5	*	2.728	9.802	28.820	38.622	-17.378	56.000	QUASIPeAK
6		10.845	10.028	19.760	29.788	-30.212	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

待測物名稱: DIGITAL CAMERA

待測物型號: R03030

測試頻道: CH 06 (2437MHz)

6 dB 頻寬: 10 kHz

檢測器: 準尖峰值 & 平均值

測試日期: 108 年 08 月 28 日

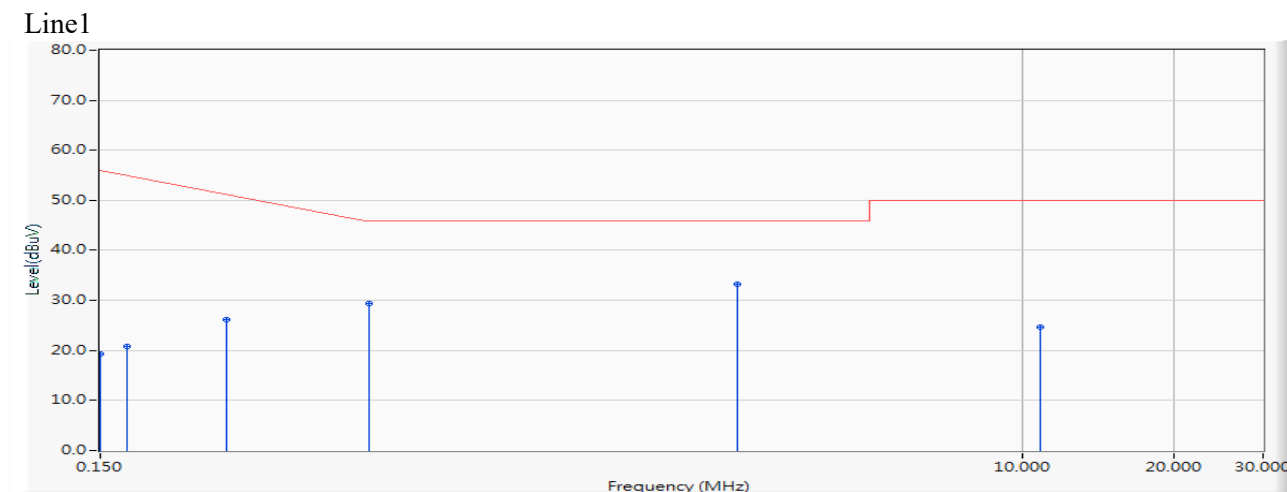
測試模式: Mode 2: 接收器 802.11n (20MHz)

試驗端點: Line 1

視頻頻寬: 10 kHz

環境溫度: 23 °C

環境濕度: 50 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.668	9.740	19.408	-36.592	56.000	AVERAGE
2		0.170	9.669	11.130	20.799	-34.630	55.429	AVERAGE
3		0.267	9.674	16.540	26.214	-26.443	52.657	AVERAGE
4		0.509	9.687	19.620	29.307	-16.693	46.000	AVERAGE
5	*	2.728	9.802	23.460	33.262	-12.738	46.000	AVERAGE
6		10.845	10.028	14.720	24.748	-25.252	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：10 kHz

檢測器：準尖峰值 & 平均值

測試日期：108 年 08 月 28 日

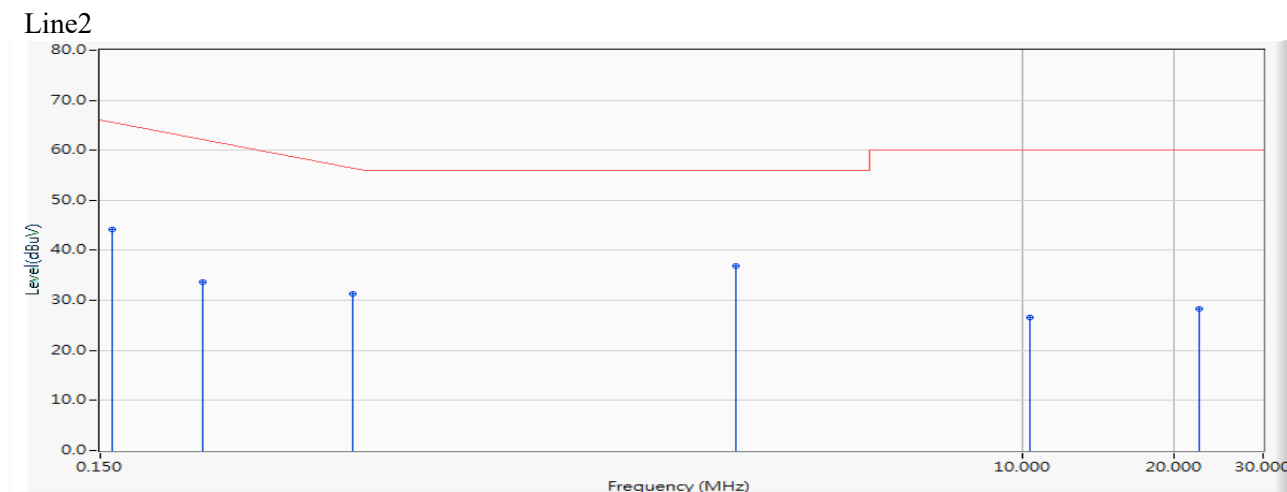
測試模式：Mode 2: 接收器 802.11n (20MHz)

試驗端點：Line 2

視頻頻寬：10 kHz

環境溫度：23 °C

環境濕度：50 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.708	34.440	44.148	-21.623	65.771	QUASIPeAK
2		0.240	9.703	23.900	33.603	-29.826	63.429	QUASIPeAK
3		0.474	9.715	21.560	31.275	-25.468	56.743	QUASIPeAK
4	*	2.720	9.842	26.980	36.822	-19.178	56.000	QUASIPeAK
5		10.341	10.091	16.600	26.691	-33.309	60.000	QUASIPeAK
6		22.439	10.394	17.940	28.334	-31.666	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：10 kHz

檢測器：準尖峰值 & 平均值

測試日期：108 年 08 月 28 日

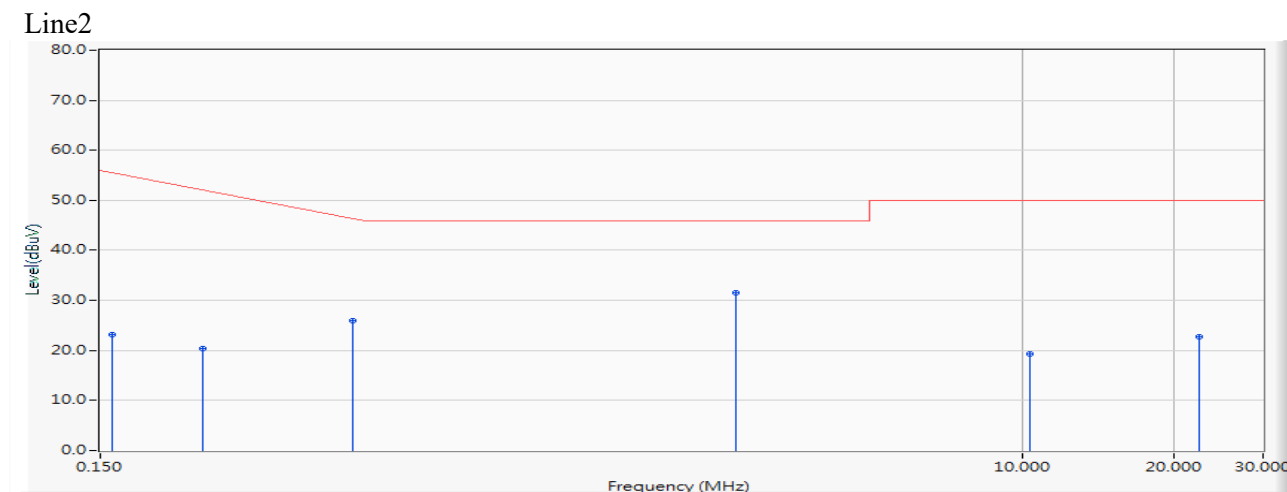
測試模式：Mode 2: 接收器 802.11n (20MHz)

試驗端點：Line 2

視頻頻寬：10 kHz

環境溫度：23 °C

環境濕度：50 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.708	13.530	23.238	-32.533	55.771	AVERAGE
2		0.240	9.703	10.620	20.323	-33.106	53.429	AVERAGE
3		0.474	9.715	16.320	26.035	-20.708	46.743	AVERAGE
4	*	2.720	9.842	21.670	31.512	-14.488	46.000	AVERAGE
5		10.341	10.091	9.200	19.291	-30.709	50.000	AVERAGE
6		22.439	10.394	12.330	22.724	-27.276	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

電源端點干擾電壓測試結果:

PASS

4. 峰值輸出功率

4.1. 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 3.10.1.2 節，操作於 2400-2483.5 兆赫(MHz)之至少使用 75 個跳頻頻道之跳頻系統、數位調變技術系統與 5725-5850 兆赫(MHz)之所有跳頻系統：1 瓦(W)(含)以下。

依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.3，用於非固定式點對點操作時，若其發射天線之方向性增益超過 6dBi，應依所超過之 dB 數等量降低峰值輸出功率。如用於固定式點對點^(註)操作時，應符合下列情形之一：

操作於 2400-2483.5 兆赫(MHz)者，其發射天線之方向性增益超過 6dBi，應於每超過 3dB 降低 1dB 之峰值輸出功率。

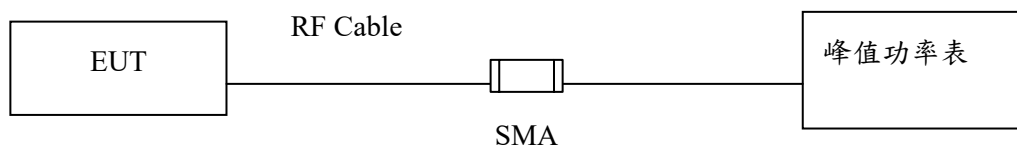
操作於 5725-5850 兆赫(MHz)者，其發射天線之方向性增益超過 6dBi，不需降低峰值輸出功率。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

4.2. 量測方法

待測物之天線埠經由適當之衰減直接連至 Power Meter RF 輸入端。

4.3. 測試架構圖



4.4. 量測不確定度

此項測試之量測不確定度為 $\pm 1.19\text{dB}$ 。

4.5. 峰值輸出功率測試結果

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：峰值輸出功率

測試頻道：CH 01,06,11

測試模式：Mode 1: 發射器 802.11b

6 dB 頻寬：--

視頻頻寬：--

檢測器：峰值

環境溫度：21 °C

測試日期：108 年 09 月 04 日

環境濕度：53 %

Channel No	Frequency (MHz)	Peak Power Output (dBm)						
		Average Power For different Data Rate (Mbps)				Peak Power	Required Limit	Result
		1	2	5.5	11			
01	2412	11.32	--	--	--	13.97	<30dBm	Pass
06	2437	11.18	11.11	10.93	10.86	13.63	<30dBm	Pass
11	2462	11.18	--	--	--	13.63	<30dBm	Pass

Note: 此項量測係採 Power Meter, 大於 6dB 之發射頻寬。

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：峰值輸出功率

測試頻道：CH 01,06,11

測試模式：Mode 1: 發射器 802.11g

6 dB 頻寬：--

視頻頻寬：--

檢測器：峰值

環境溫度：21 °C

測試日期：108 年 09 月 04 日

環境濕度：53 %

Channel No	Frequency (MHz)	Peak Power Output (dBm)										
		Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54			
01	2412	11.63	--	--	--	--	--	--	--	21.16	<30dBm	Pass
06	2437	11.52	11.41	11.25	11.10	10.99	10.83	10.73	10.62	21.25	<30dBm	Pass
11	2462	11.38	--	--	--	--	--	--	--	21.17	<30dBm	Pass

Note: 此項量測係採 Power Meter, 大於 6dB 之發射頻寬。

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：峰值發射功率

測試頻道：CH 01, 06, 11

測試模式：Mode 1: 發射器 802.11n (20MHz)

6 dB 頻寬：--

視頻頻寬：--

檢測器：峰值

環境溫度：21 °C

測試日期：108 年 09 月 04 日

環境濕度：53 %

Channel No	Frequency (MHz)	Peak Power Output (dBm)										
		Average Power								Peak Power	Required Limit	Result
		For different Data Rate (Mbps)										
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	7.2		
01	2412	11.58	--	--	--	--	--	--	--	21.23	<30dBm	Pass
06	2437	11.46	11.30	11.12	11.05	10.88	10.79	10.70	10.57	21.25	<30dBm	Pass
11	2462	11.45	--	--	--	--	--	--	--	21.25	<30dBm	Pass

Note: 此項量測係採 Power Meter, 大於 6dB 之發射頻寬。

峰值輸出功率測試結果:

PASS

5. 天線之要求

5.1. 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 3.10.1.3，用於非固定式點對點操作時，若其發射天線之方向性增益超過 6dBi，應依所超過之 dB 數等量降低峰值輸出功率。如用於固定式點對點^(註)操作時，應符合下列情形之一：

操作於 2400-2483.5 兆赫(MHz)者，其發射天線之方向性增益超過 6dBi，應於每超過 3dB 降低 1dB 之峰值輸出功率。

操作於 5725-5850 兆赫(MHz)者，其發射天線之方向性增益超過 6dBi，不需降低峰值輸出功率。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

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(4)節規定，天線之規格不受 2.2 節規定之限制。

5.2. 天線樣式

此 DIGITAL CAMERA 為全固定式 Chip Antenna, (檢附天線規格書)

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	YAGEO	ANT8010LL04R2400A	Chip Antenna	0.2dBi for 2.4GHz

天線之要求測試結果:

PASS

6. 輻射干擾測試

6.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.5，使用頻帶範圍外之任意 100 千赫 (kHz) 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫 (kHz) 內的射頻功率，須衰減 20 分貝 (dB)，以射頻傳導或輻射方式測量。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

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

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

上表規定之電場強度，頻率在 9-90kHz 千赫(kHz)、110-490 千赫(kHz)以及 1000 兆赫(MHz) 以上之發射，其量測以平均值檢波器為基準，且須符合第 5.15.2 節之規定；其他頻率之發射，應以 CISPR 準峰值(quasi-peak) 檢波器測量；非以上表所指定之距離測量時須符合第 5.5 節之規定，而輻射發射之量測頻率範圍須符合第 5.14 節之規定。

6.2. 量測方法

待測物置於高 80 公分(測試範圍低於 1GHz)或高 150 公分(測試範圍高於 1GHz)之非導體桌面 (落地型產品置於地上), 桌面可 360 度旋轉, 接收天線置於距待測物 3m 距離, 高度可在 1 至 4 公尺間變動, 以量測待測物之最大輻射電場強度。接收天線並應於水平及垂直極化方向各量測一次。

待測物應在正常發射狀態下量測。

RBW and VBW Parameter setting:

According to KDB 558074 section 12.2.4. Peak power measurement procedure

RBW = as specified in Table 1.

VBW $\geq$ 3 x RBW.

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

According to KDB 558074 section 12.2.5. Average power measurement procedure

RBW = 1MHz.

VBW = 10Hz, when duty cycle $\geq$ 98 %

VBW $\geq$ 1/T, when duty cycle < 98 %

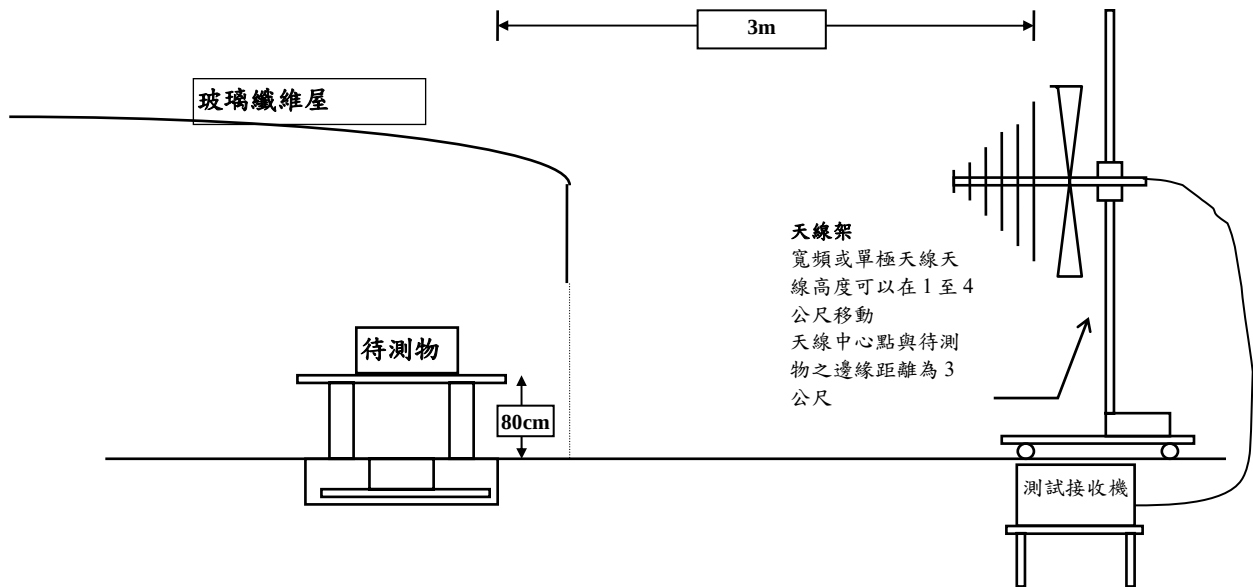
(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11b	99.32	8.4638	118	10
802.11g	94.98	1.3768	726	1000
802.11n20	97.08	1.9275	519	1000

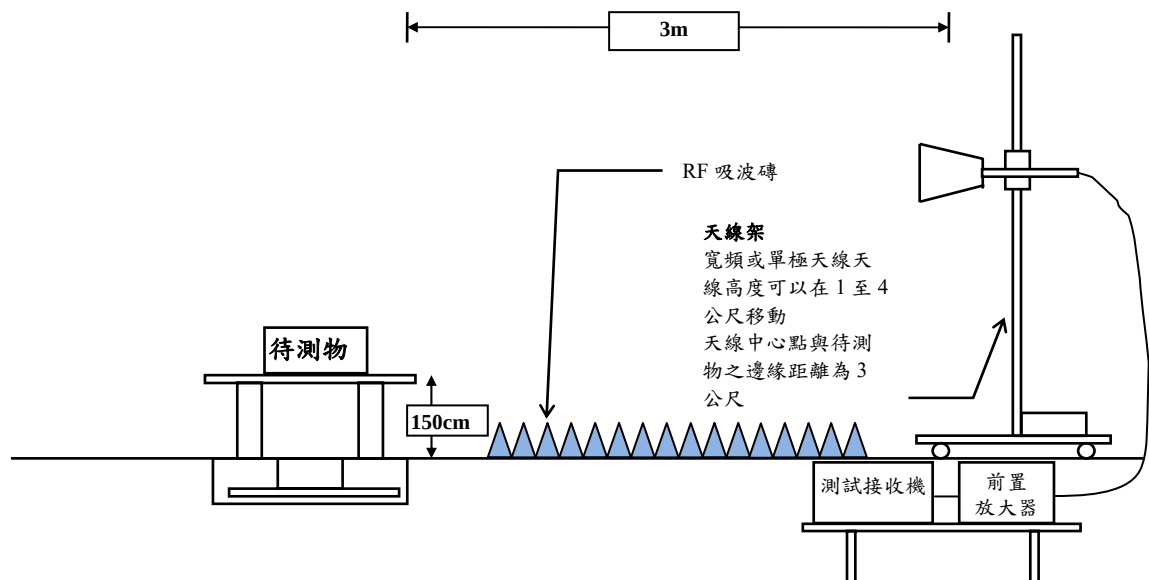
Note: Duty Cycle Refer to Section 11

6.3. 測試架構圖

Under 1GHz Test Setup



Above 1GHz Test Setup



6.4. 量測不確定度

此項測試之量測不確定度 1GHz 以上為 $\pm 4.08\text{dB}$

1GHz 以下為 $\pm 4.22\text{dB}$

6.5. 輻射干擾測試結果

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

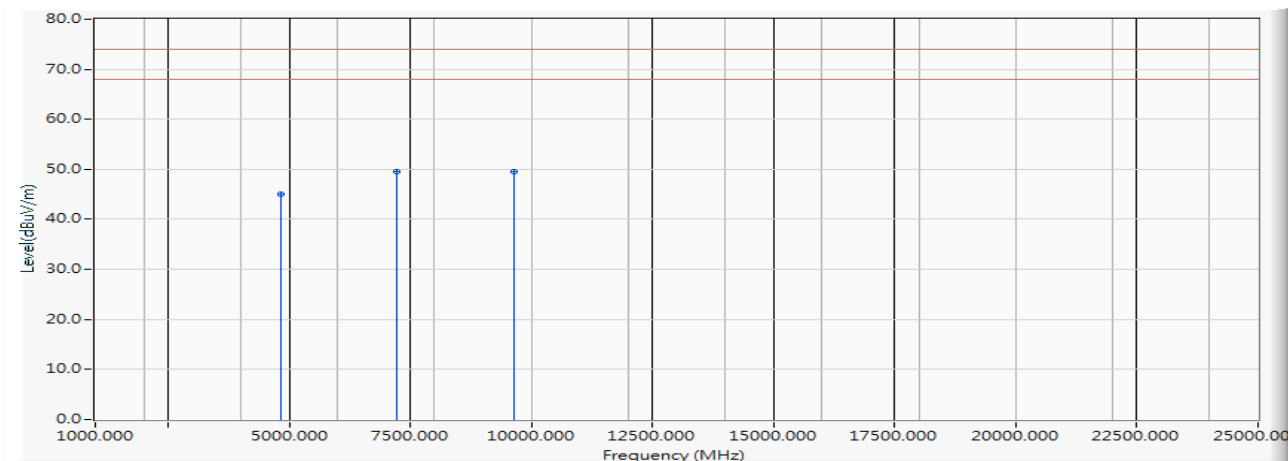
測試項目：不必要的輻射強度

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	4.789	40.330	45.119	-28.881	74.000	PEAK
2		7236.000	12.072	37.460	49.532	-24.468	74.000	PEAK
3	*	9648.000	11.899	37.670	49.569	-24.431	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：不必要的輻射強度

測試頻道：CH 01 (2412MHz)

測試模式：Mode 1: 發射器 802.11b

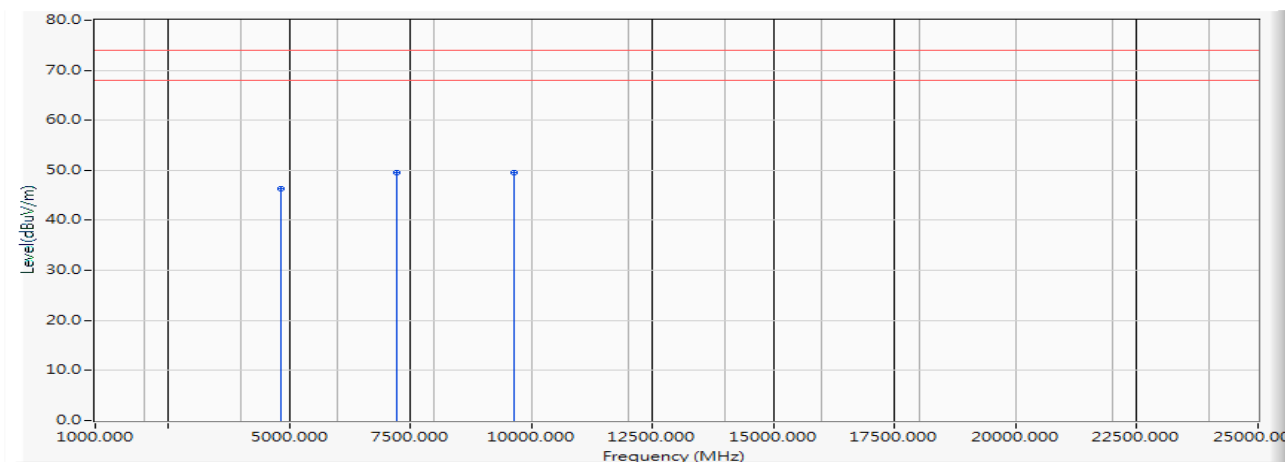
檢測器：峰值 & 平均值

環境溫度：20 °C

測試日期：108 年 08 月 28 日

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	4.789	41.610	46.399	-27.601	74.000	PEAK
2		7236.000	12.072	37.430	49.502	-24.498	74.000	PEAK
3	*	9648.000	11.899	37.660	49.559	-24.441	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

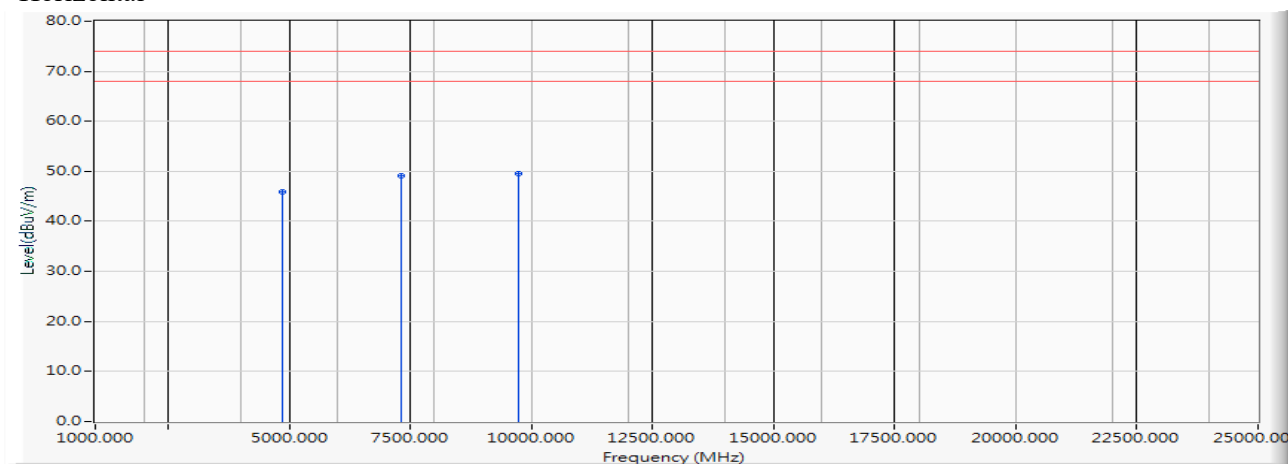
測試項目：不必要的輻射強度

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	5.247	40.710	45.957	-28.043	74.000	PEAK
2		7311.000	11.857	37.180	49.037	-24.963	74.000	PEAK
3	*	9748.000	11.890	37.750	49.640	-24.360	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

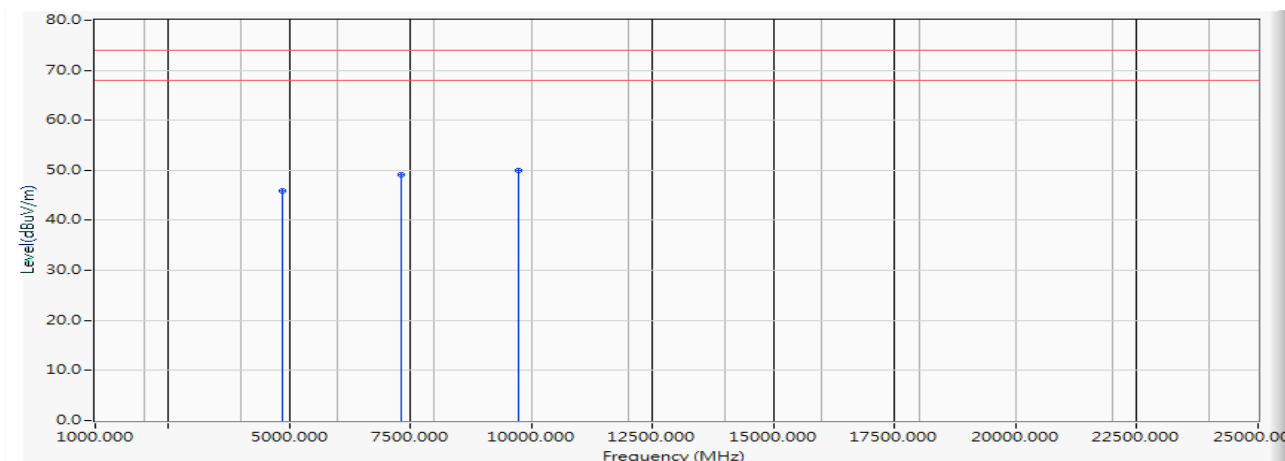
測試項目：不必要的輻射強度

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	5.247	40.750	45.997	-28.003	74.000	PEAK
2		7311.000	11.857	37.330	49.187	-24.813	74.000	PEAK
3	*	9748.000	11.890	38.090	49.980	-24.020	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

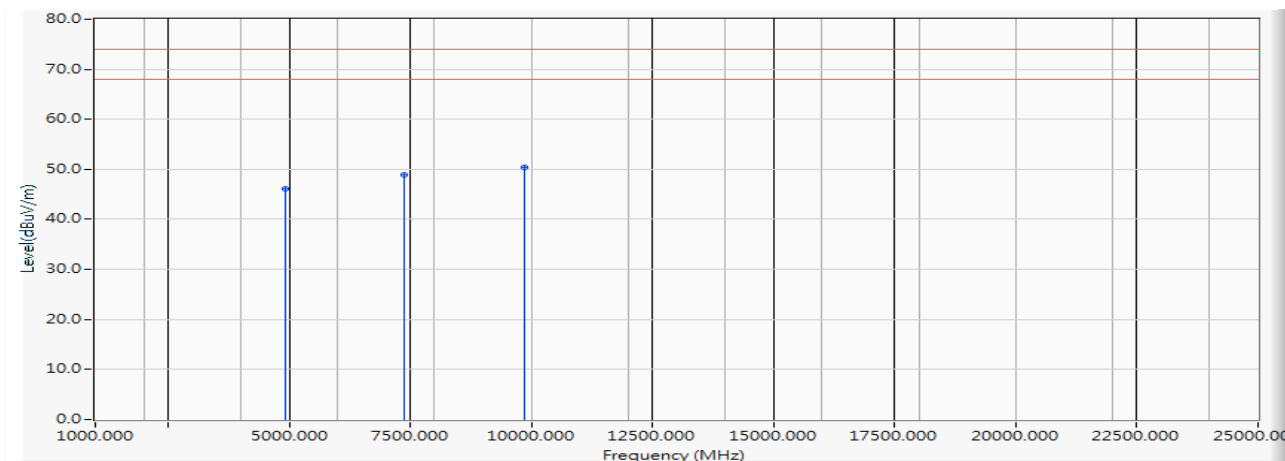
測試項目：不必要的輻射強度

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	5.704	40.320	46.025	-27.975	74.000	PEAK
2		7386.000	11.345	37.570	48.916	-25.084	74.000	PEAK
3	*	9848.000	12.390	37.920	50.309	-23.691	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

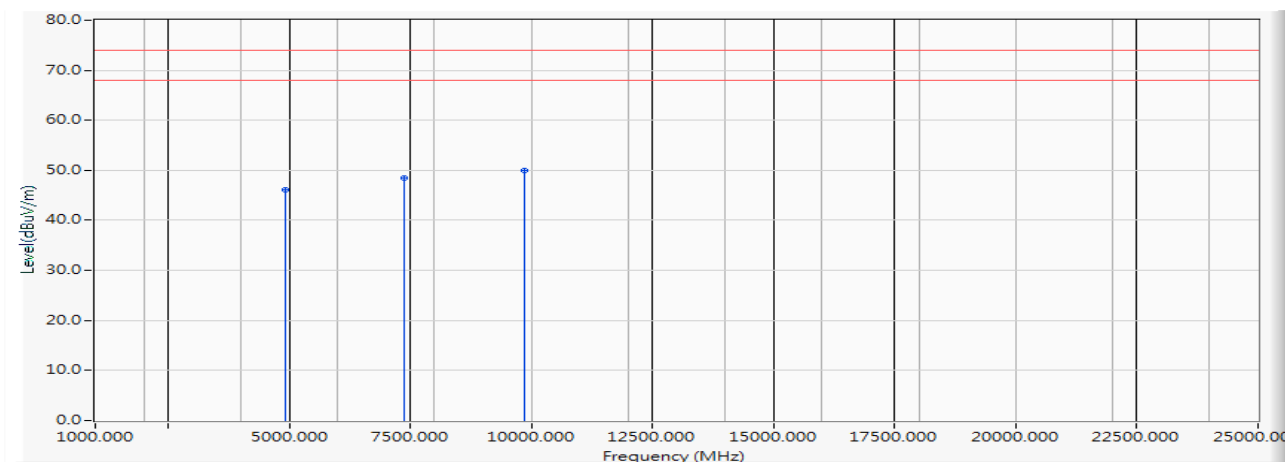
測試項目：不必要的輻射強度

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	5.704	40.370	46.075	-27.925	74.000	PEAK
2		7386.000	11.345	37.080	48.426	-25.574	74.000	PEAK
3	*	9848.000	12.390	37.690	50.079	-23.921	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：不必要的輻射強度

測試頻道：CH 01 (2412MHz)

測試模式：Mode 1: 發射器 802.11g

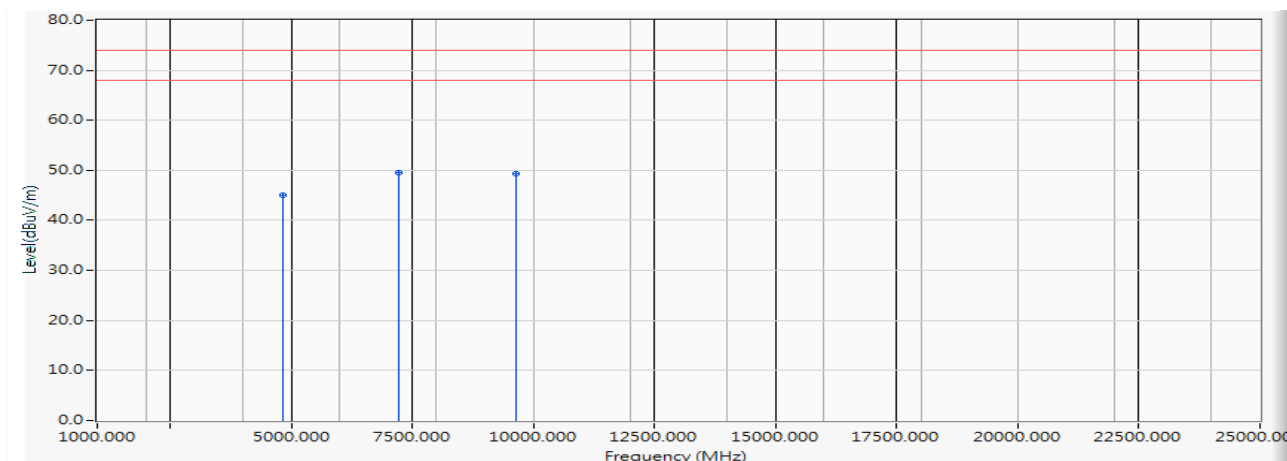
檢測器：峰值 & 平均值

環境溫度：20 °C

測試日期：108 年 08 月 28 日

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	4.789	40.268	45.057	-28.943	74.000	PEAK
2	*	7236.000	12.072	37.380	49.452	-24.548	74.000	PEAK
3		9648.000	11.899	37.534	49.433	-24.567	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：不必要的輻射強度

測試頻道：CH 01 (2412MHz)

測試模式：Mode 1: 發射器 802.11g

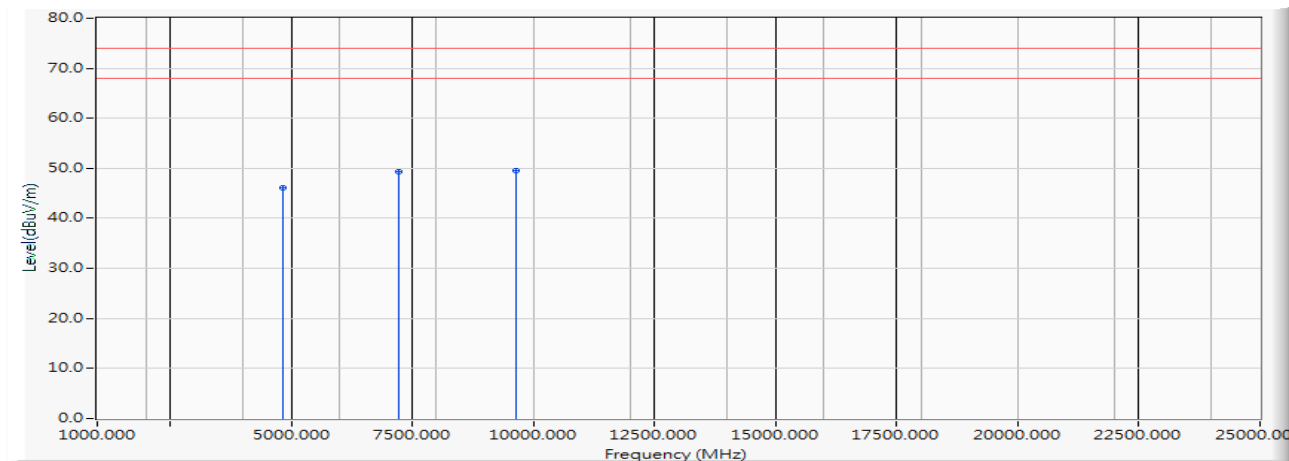
檢測器：峰值 & 平均值

環境溫度：20 °C

測試日期：108 年 08 月 28 日

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	4.789	41.337	46.126	-27.874	74.000	PEAK
2		7236.000	12.072	37.306	49.378	-24.622	74.000	PEAK
3	*	9648.000	11.899	37.588	49.487	-24.513	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：不必要的輻射強度

測試頻道：CH 06 (2437MHz)

測試模式：Mode 1: 發射器 802.11g

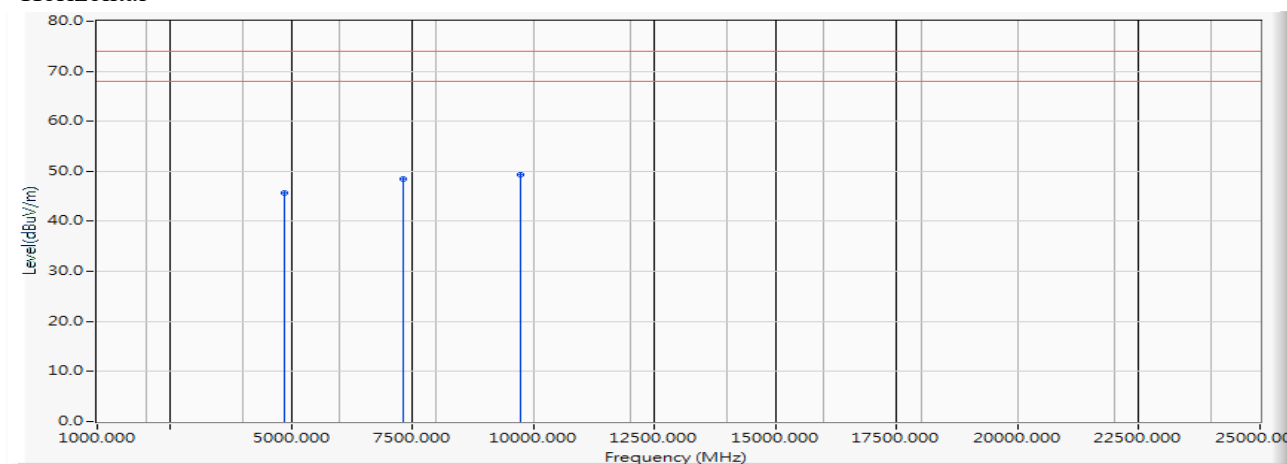
檢測器：峰值 & 平均值

環境溫度：20 °C

測試日期：108 年 08 月 28 日

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	5.247	40.516	45.763	-28.237	74.000	PEAK
2		7311.000	11.857	36.708	48.565	-25.435	74.000	PEAK
3	*	9748.000	11.890	37.365	49.255	-24.745	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：不必要的輻射強度

測試頻道：CH 06 (2437MHz)

測試模式：Mode 1: 發射器 802.11g

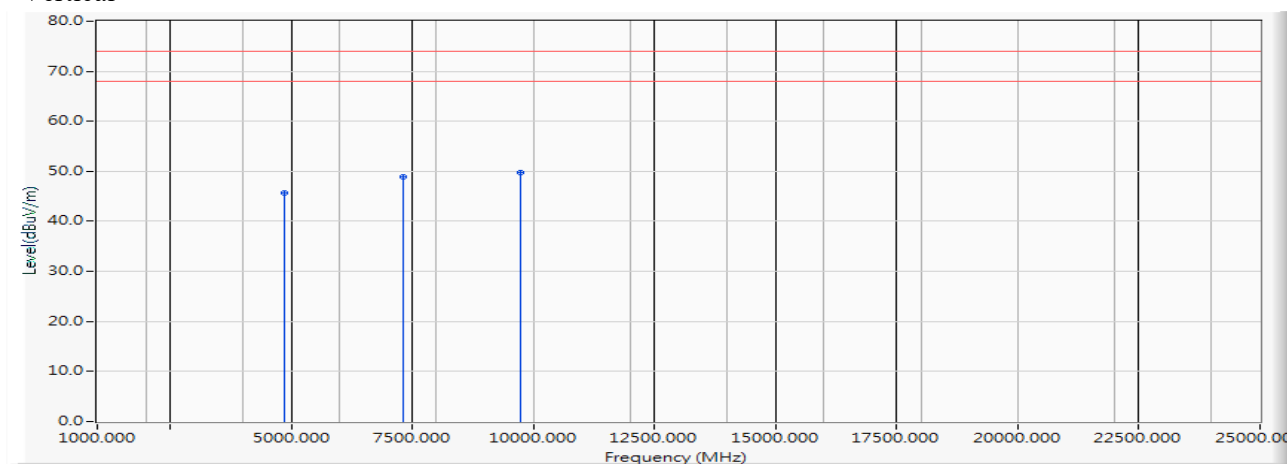
檢測器：峰值 & 平均值

環境溫度：20 °C

測試日期：108 年 08 月 28 日

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	5.247	40.492	45.739	-28.261	74.000	PEAK
2		7311.000	11.857	37.099	48.956	-25.044	74.000	PEAK
3	*	9748.000	11.890	37.871	49.761	-24.239	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

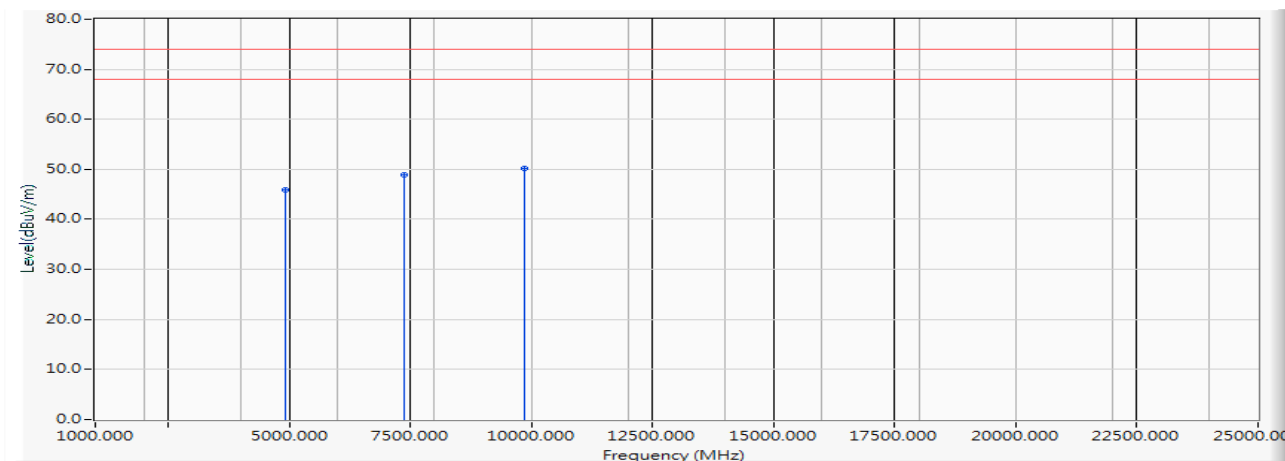
測試項目：不必要的輻射強度

測試模式：Mode 1: 發射器 802.11g

環境溫度：20 °C

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	5.704	40.170	45.875	-28.125	74.000	PEAK
2		7386.000	11.345	37.511	48.857	-25.143	74.000	PEAK
3	*	9848.000	12.390	37.717	50.106	-23.894	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

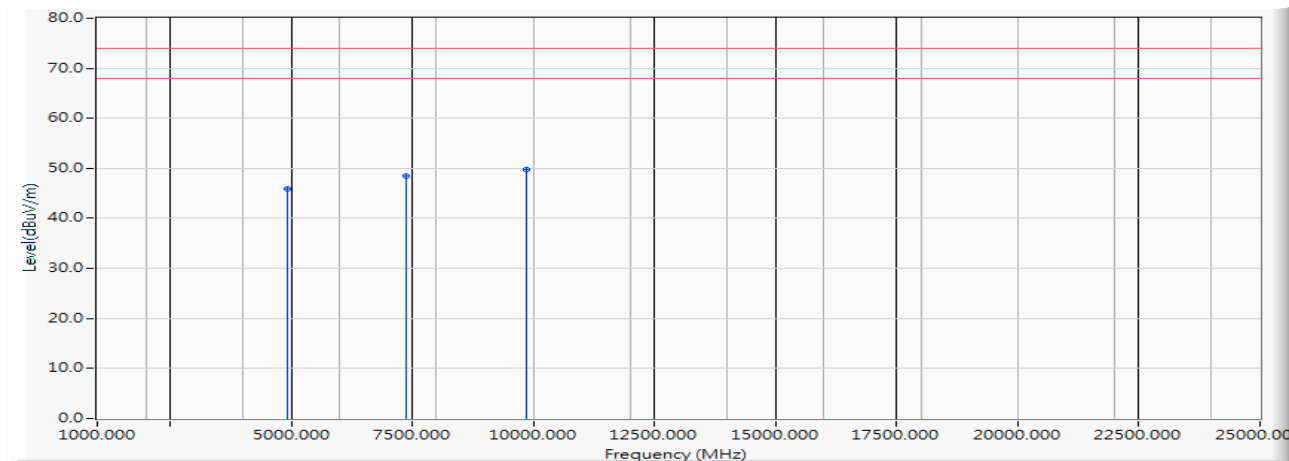
測試項目：不必要的輻射強度

測試模式：Mode 1: 發射器 802.11g

環境溫度：20 °C

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	5.704	40.226	45.931	-28.069	74.000	PEAK
2		7386.000	11.345	37.111	48.457	-25.543	74.000	PEAK
3	*	9848.000	12.390	37.476	49.865	-24.135	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2412MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

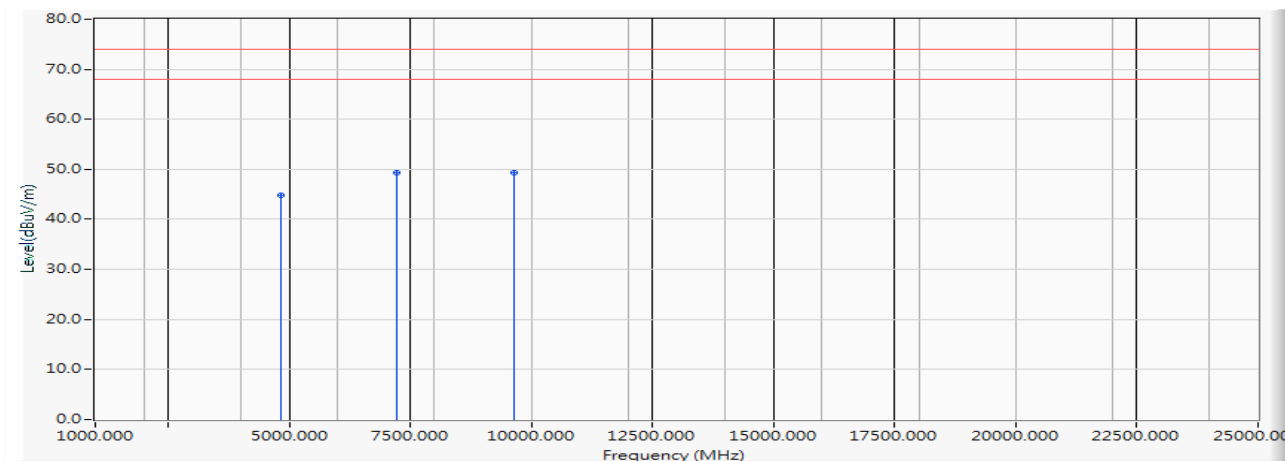
測試項目：不必要的輻射強度

測試模式：Mode 1: 發射器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	39.717	40.107	44.896	-29.104	74.000	PEAK
2		7236.000	46.033	37.256	49.328	-24.672	74.000	PEAK
3	*	9648.000	45.990	37.437	49.336	-24.664	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：不必要的輻射強度

測試頻道：CH 01 (2412MHz)

測試模式：Mode 1: 發射器 802.11n (20MHz)

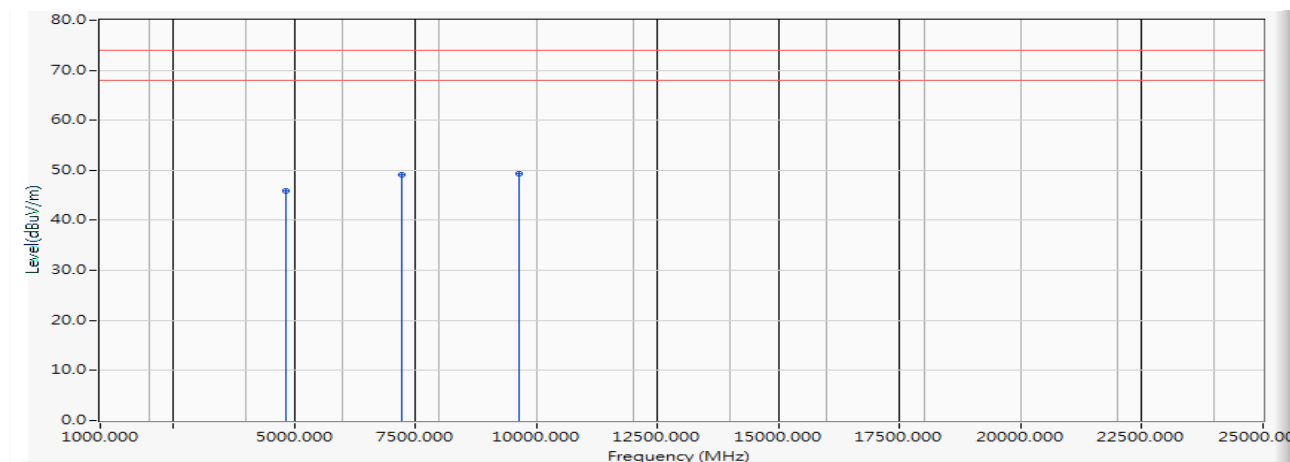
檢測器：峰值 & 平均值

環境溫度：20 °C

測試日期：108 年 08 月 28 日

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	4.789	41.153	45.942	-28.058	74.000	PEAK
2		7236.000	12.072	37.112	49.184	-24.816	74.000	PEAK
3	*	9648.000	11.899	37.356	49.255	-24.745	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：不必要的輻射強度

測試頻道：CH 06 (2437MHz)

測試模式：Mode 1: 發射器 802.11n (20MHz)

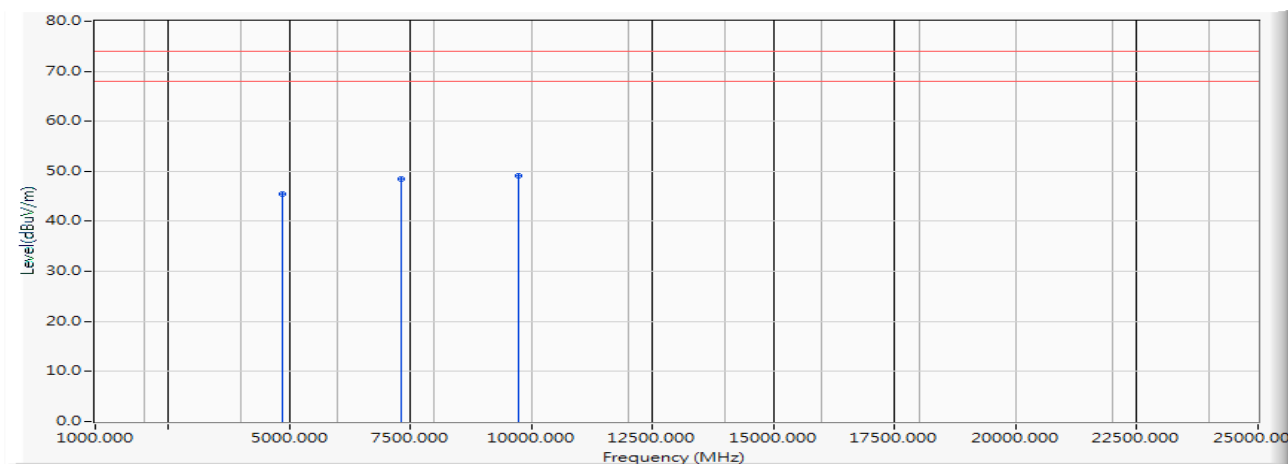
檢測器：峰值 & 平均值

環境溫度：20 °C

測試日期：108 年 08 月 28 日

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	5.247	40.328	45.575	-28.425	74.000	PEAK
2		7311.000	11.857	36.516	48.373	-25.627	74.000	PEAK
3	*	9748.000	11.890	37.133	49.023	-24.977	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：不必要的輻射強度

測試頻道：CH 06 (2437MHz)

測試模式：Mode 1: 發射器 802.11n (20MHz)

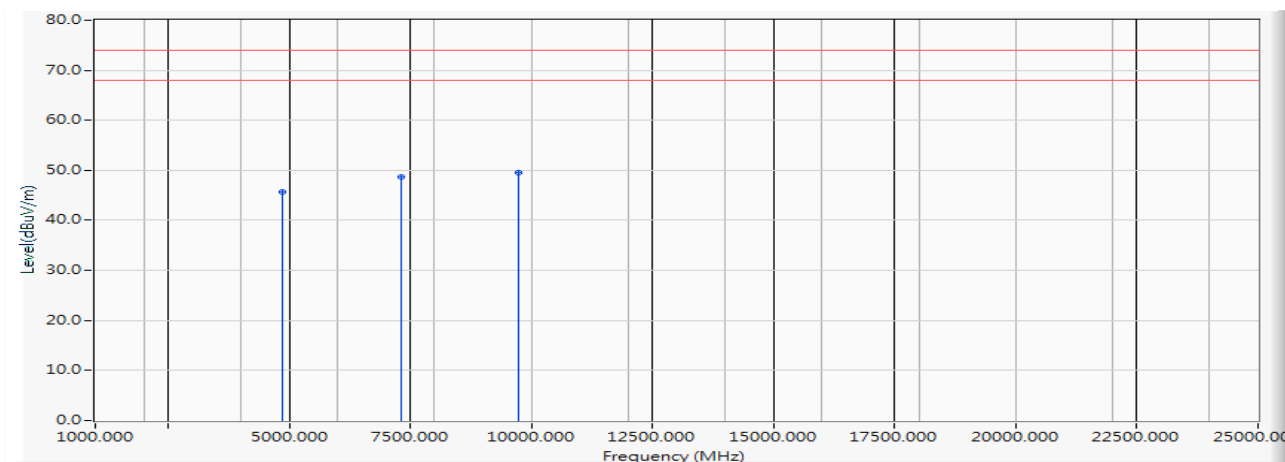
檢測器：峰值 & 平均值

環境溫度：20 °C

測試日期：108 年 08 月 28 日

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	5.247	40.366	45.613	-28.387	74.000	PEAK
2		7311.000	11.857	36.870	48.727	-25.273	74.000	PEAK
3	*	9748.000	11.890	37.657	49.547	-24.453	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：不必要的輻射強度

測試頻道：CH 11 (2462MHz)

測試模式：Mode 1: 發射器 802.11n (20MHz)

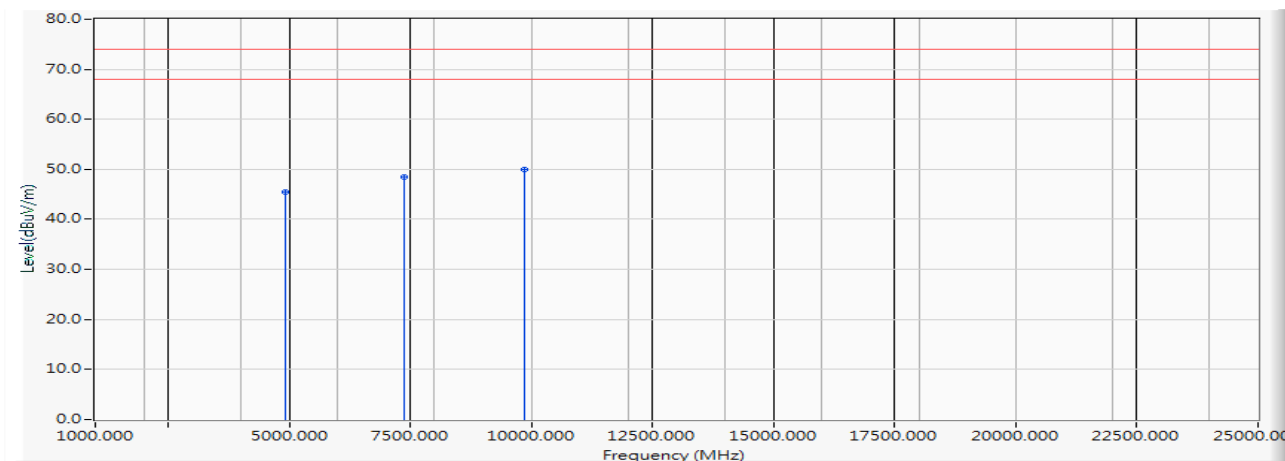
檢測器：峰值 & 平均值

環境溫度：20 °C

測試日期：108 年 08 月 28 日

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	5.704	39.837	45.542	-28.458	74.000	PEAK
2		7386.000	11.345	37.113	48.459	-25.541	74.000	PEAK
3	*	9848.000	12.390	37.515	49.904	-24.096	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試項目：不必要的輻射強度

測試頻道：CH 11 (2462MHz)

測試模式：Mode 1: 發射器 802.11n (20MHz)

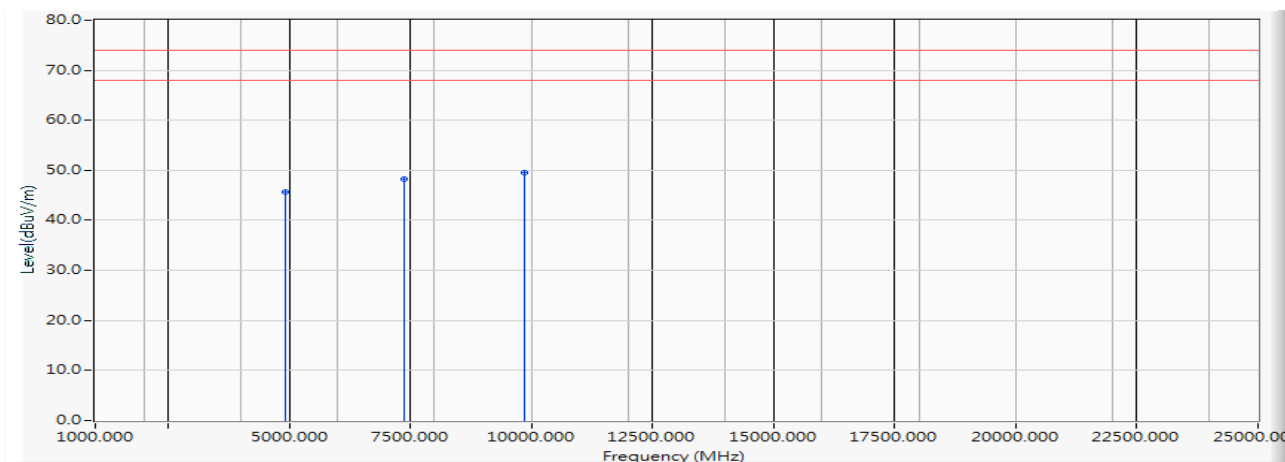
檢測器：峰值 & 平均值

環境溫度：20 °C

測試日期：108 年 08 月 28 日

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	5.704	40.067	45.772	-28.228	74.000	PEAK
2		7386.000	11.345	36.859	48.205	-25.795	74.000	PEAK
3	*	9848.000	12.390	37.212	49.601	-24.399	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

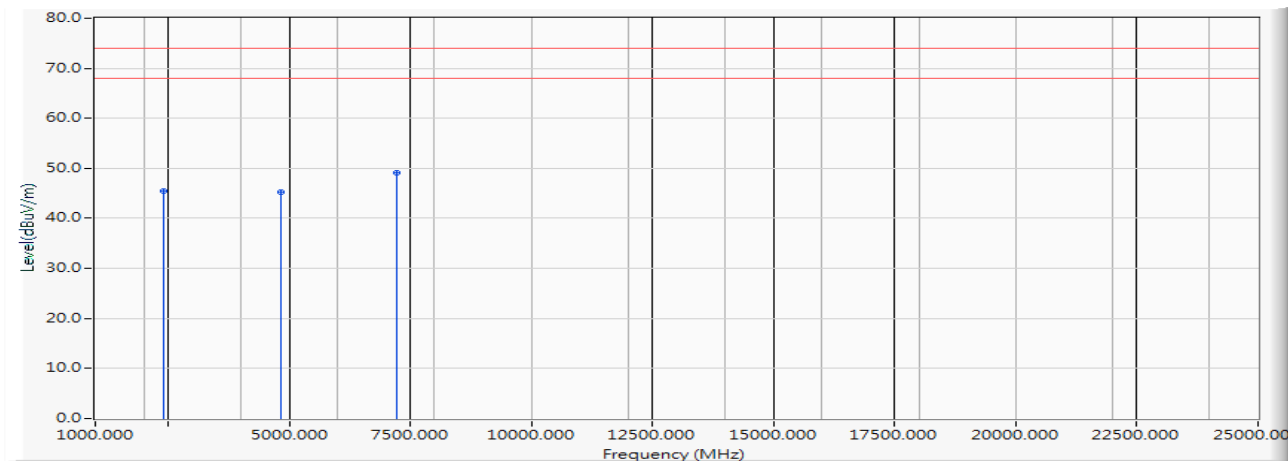
測試項目：不必要的輻射強度

測試模式：Mode 2: 接收器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2412.000	-1.685	47.060	45.375	-28.625	74.000	PEAK
2		4824.000	4.783	40.520	45.303	-28.697	74.000	PEAK
3	*	7236.000	12.052	37.120	49.172	-24.828	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

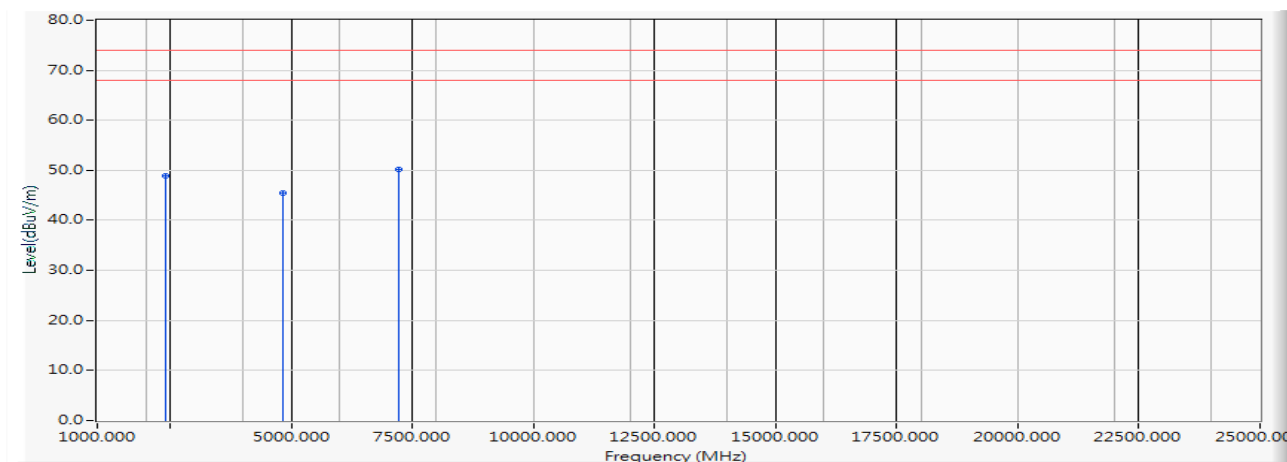
測試項目：不必要的輻射強度

測試模式：Mode 2: 接收器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2412.000	-1.685	50.600	48.915	-25.085	74.000	PEAK
2		4824.000	4.783	40.730	45.513	-28.487	74.000	PEAK
3	*	7236.000	12.052	38.210	50.262	-23.738	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

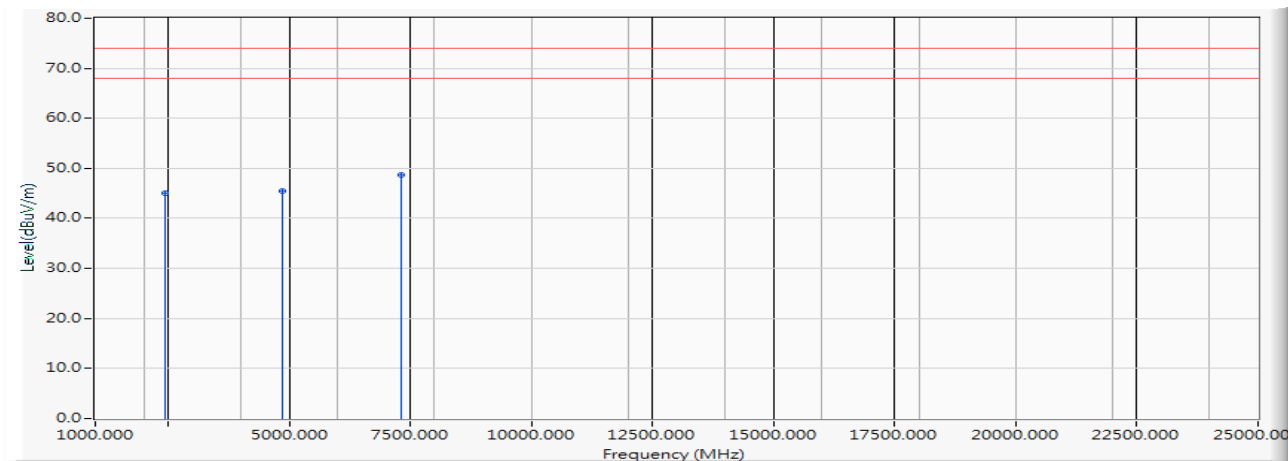
測試項目：不必要的輻射強度

測試模式：Mode 2: 接收器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2437.000	-1.840	46.853	45.013	-28.987	74.000	PEAK
2		4874.000	5.188	40.383	45.571	-28.429	74.000	PEAK
3	*	7311.000	11.839	36.896	48.735	-25.265	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

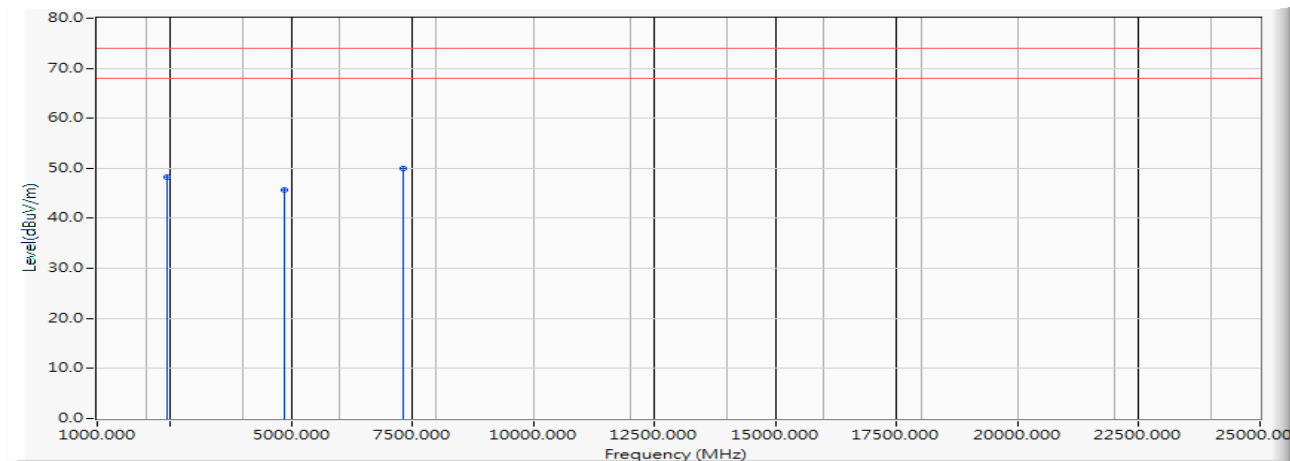
測試項目：不必要的輻射強度

測試模式：Mode 2: 接收器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2437.000	-1.840	50.138	48.298	-25.702	74.000	PEAK
2		4874.000	5.188	40.542	45.730	-28.270	74.000	PEAK
3	*	7311.000	11.839	38.109	49.948	-24.052	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

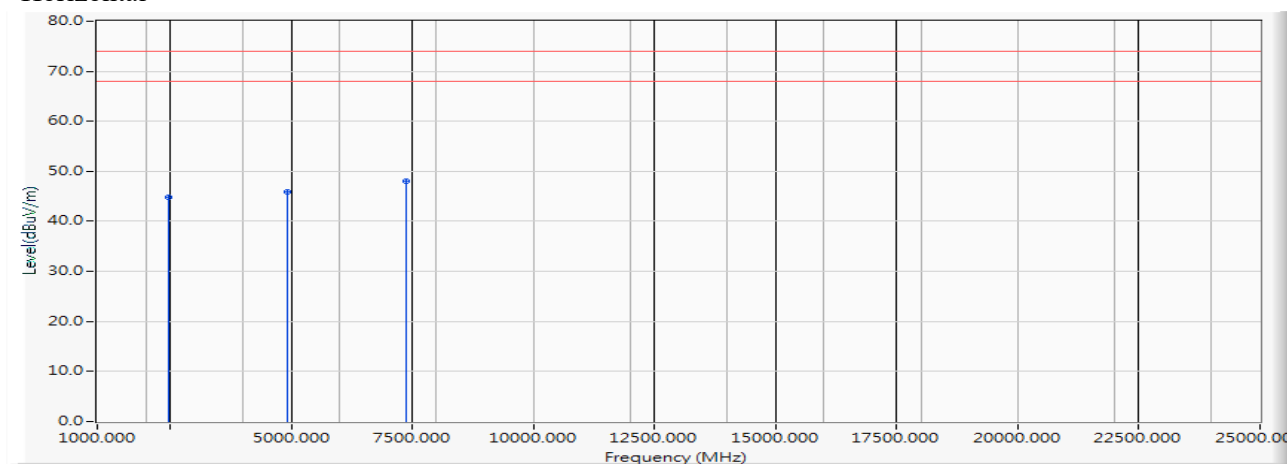
測試項目：不必要的輻射強度

測試模式：Mode 2: 接收器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2462.000	-1.994	46.785	44.791	-29.209	74.000	PEAK
2		4924.000	5.593	40.215	45.809	-28.191	74.000	PEAK
3	*	7386.000	11.331	36.735	48.067	-25.933	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 08 月 28 日

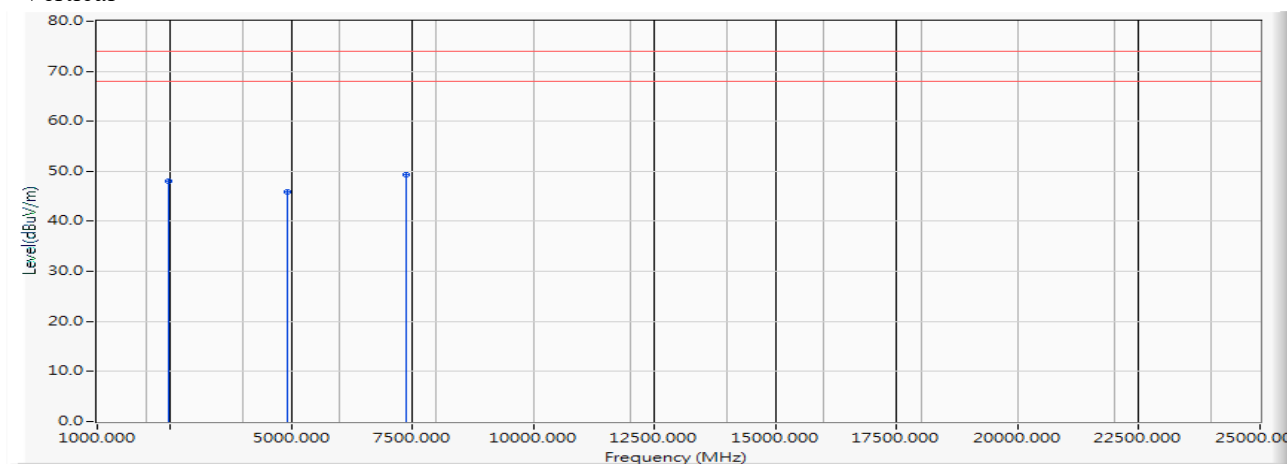
測試項目：不必要的輻射強度

測試模式：Mode 2: 接收器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2462.000	-1.994	49.967	47.973	-26.027	74.000	PEAK
2		4924.000	5.593	40.398	45.992	-28.008	74.000	PEAK
3	*	7386.000	11.331	37.899	49.231	-24.769	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱: DIGITAL CAMERA

待測物型號: R03030

測試頻道: CH 06 (2437MHz)

6 dB 頻寬: 120kHz

檢測器: 準尖峰值

測試日期: 108 年 08 月 28 日

測試項目: 一般不必要的輻射強度

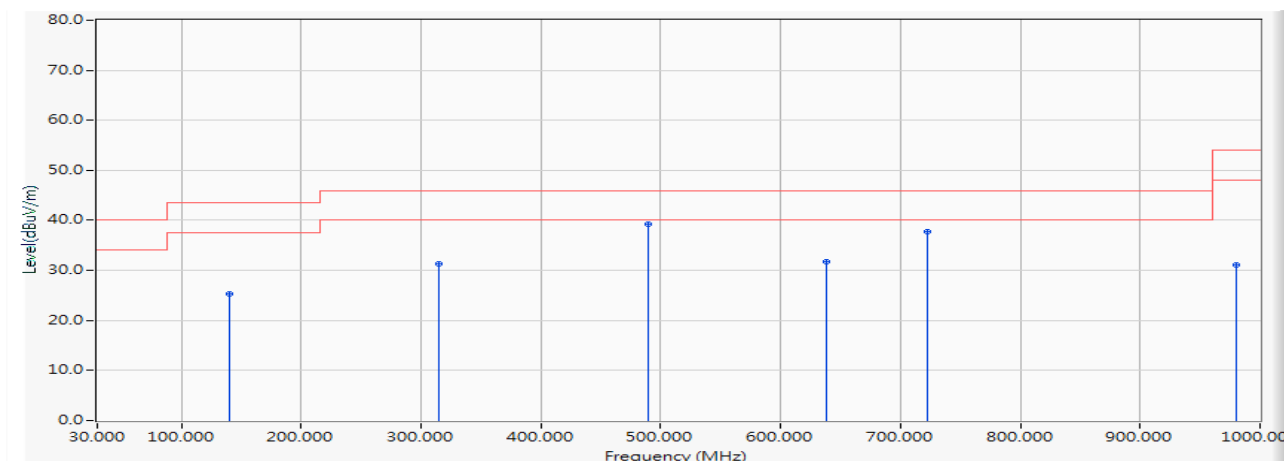
測試模式: Mode 1: 發射器 802.11b

視頻頻寬: 120kHz

環境溫度: 20 °C

環境濕度: 48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		139.652	-15.227	40.610	25.384	-18.116	43.500	QUASIPeAK
2		315.377	-12.856	44.253	31.397	-14.603	46.000	QUASIPeAK
3	*	489.696	-9.730	48.986	39.255	-6.745	46.000	QUASIPeAK
4		638.710	-7.190	38.939	31.749	-14.251	46.000	QUASIPeAK
5		723.058	-8.326	46.108	37.782	-8.218	46.000	QUASIPeAK
6		980.319	-5.693	36.826	31.133	-22.867	54.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss - Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱: DIGITAL CAMERA

待測物型號: R03030

測試頻道: CH 06 (2437MHz)

6 dB 頻寬: 120kHz

檢測器: 準尖峰值

測試日期: 108 年 08 月 28 日

測試項目: 一般不必要的輻射強度

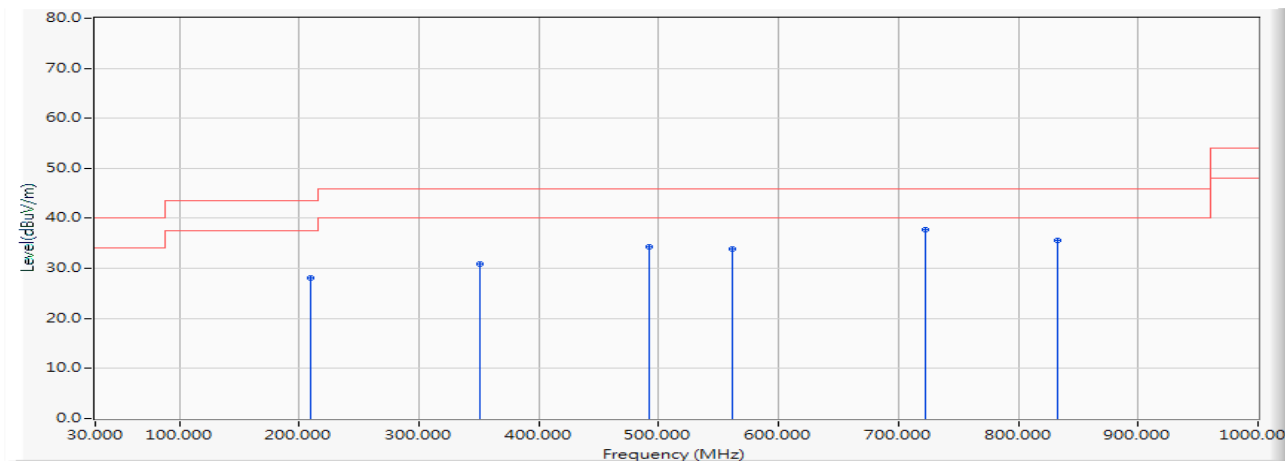
測試模式: Mode 1: 發射器 802.11b

視頻頻寬: 120kHz

環境溫度: 20 °C

環境濕度: 48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		209.942	-16.990	44.981	27.991	-15.509	43.500	QUASIPeAK
2		350.522	-10.768	41.711	30.943	-15.057	46.000	QUASIPeAK
3		492.507	-9.650	44.032	34.382	-11.618	46.000	QUASIPeAK
4		561.391	-8.022	41.966	33.943	-12.057	46.000	QUASIPeAK
5	*	723.058	-8.326	46.039	37.713	-8.287	46.000	QUASIPeAK
6		832.710	-7.386	43.070	35.685	-10.315	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss - Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

待測物名稱: DIGITAL CAMERA

待測物型號: R03030

測試頻道: CH 06 (2437MHz)

6 dB 頻寬: 120kHz

檢測器: 準尖峰值

測試日期: 108 年 08 月 28 日

測試項目: 一般不必要的輻射強度

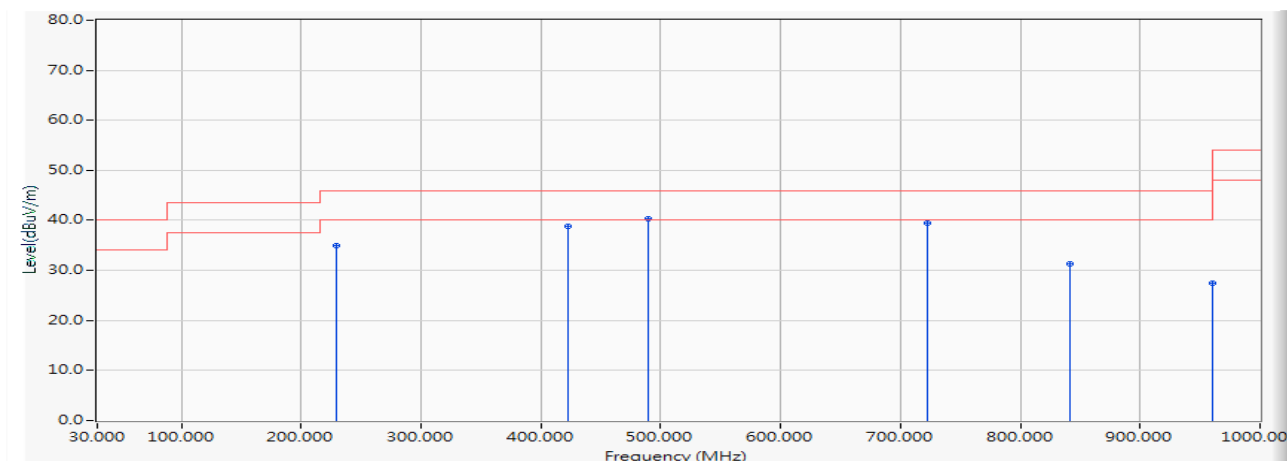
測試模式: Mode 1: 發射器 802.11g

視頻頻寬: 120kHz

環境溫度: 20 °C

環境濕度: 48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		229.623	-16.028	50.928	34.901	-11.099	46.000	QUASIPeAK
2		422.217	-10.061	48.812	38.751	-7.249	46.000	QUASIPeAK
3	*	489.696	-9.730	50.048	40.317	-5.683	46.000	QUASIPeAK
4		723.058	-8.326	47.691	39.365	-6.635	46.000	QUASIPeAK
5		841.145	-7.099	38.427	31.328	-14.672	46.000	QUASIPeAK
6		960.638	-6.488	34.008	27.520	-26.480	54.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss - Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

待測物名稱: DIGITAL CAMERA

待測物型號: R03030

測試頻道: CH 06 (2437MHz)

6 dB 頻寬: 120kHz

檢測器: 準尖峰值

測試日期: 108 年 08 月 28 日

測試項目: 一般不必要的輻射強度

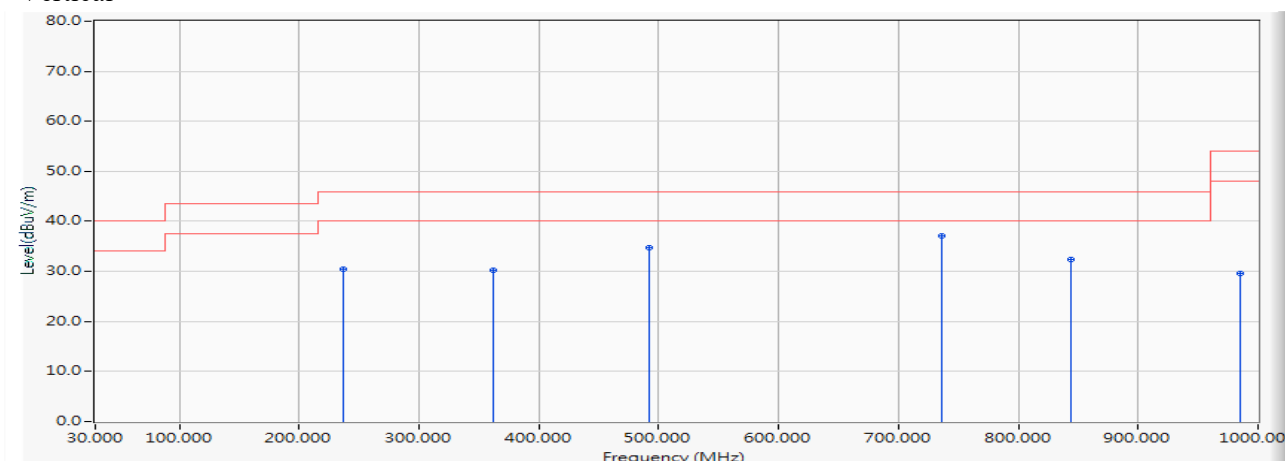
測試模式: Mode 1: 發射器 802.11g

視頻頻寬: 120kHz

環境溫度: 20 °C

環境濕度: 48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		236.652	-16.264	46.770	30.506	-15.494	46.000	QUASIPeAK
2		361.768	-10.215	40.445	30.230	-15.770	46.000	QUASIPeAK
3		492.507	-9.650	44.422	34.772	-11.228	46.000	QUASIPeAK
4	*	735.710	-7.163	44.301	37.138	-8.862	46.000	QUASIPeAK
5		843.957	-6.810	39.136	32.326	-13.674	46.000	QUASIPeAK
6		984.536	-5.827	35.384	29.556	-24.444	54.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：120kHz

檢測器：準尖峰值

測試日期：108 年 08 月 28 日

測試項目：一般不必要的輻射強度

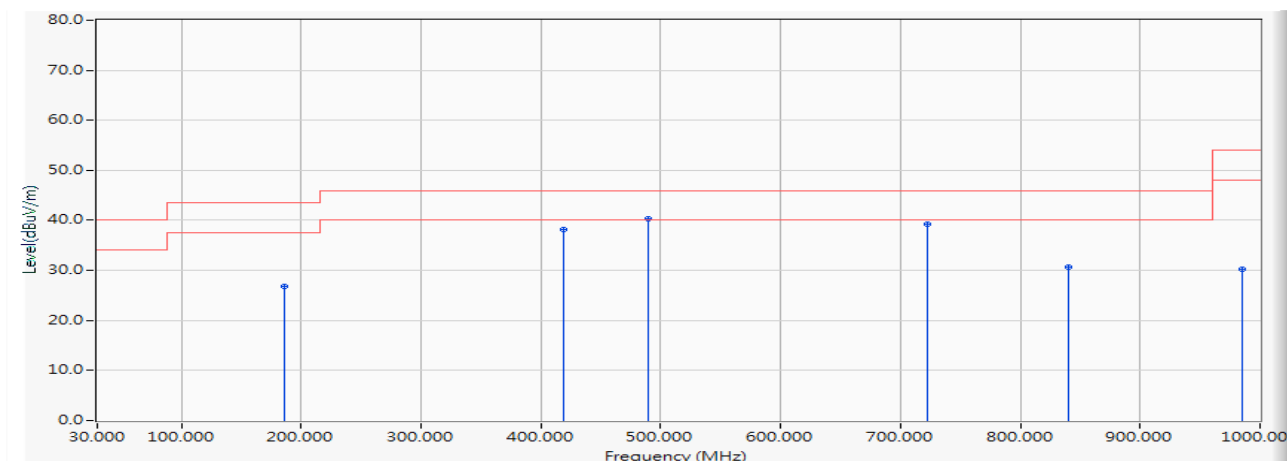
測試模式：Mode 1: 發射器 802.11n (20MHz)

視頻頻寬：120kHz

環境溫度：20 °C

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		186.043	-17.701	44.511	26.810	-16.690	43.500	QUASIPeAK
2		419.406	-10.476	48.557	38.082	-7.918	46.000	QUASIPeAK
3	*	489.696	-9.730	50.080	40.349	-5.651	46.000	QUASIPeAK
4		723.058	-8.326	47.652	39.326	-6.674	46.000	QUASIPeAK
5		839.739	-7.021	37.655	30.633	-15.367	46.000	QUASIPeAK
6		984.536	-5.827	36.062	30.234	-23.766	54.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：120kHz

檢測器：準尖峰值

測試日期：108 年 08 月 28 日

測試項目：一般不必要的輻射強度

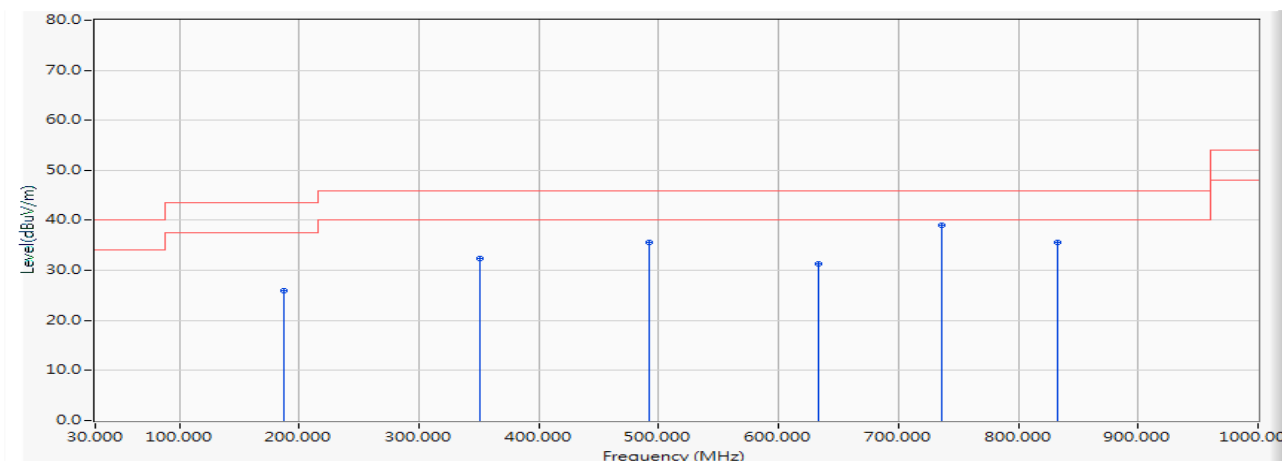
測試模式：Mode 1: 發射器 802.11n (20MHz)

視頻頻寬：120kHz

環境溫度：20 °C

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		187.449	-17.700	43.613	25.913	-17.587	43.500	QUASIPeAK
2		350.522	-10.768	43.188	32.420	-13.580	46.000	QUASIPeAK
3		492.507	-9.650	45.316	35.666	-10.334	46.000	QUASIPeAK
4		633.087	-7.188	38.549	31.362	-14.638	46.000	QUASIPeAK
5	*	735.710	-7.163	46.213	39.050	-6.950	46.000	QUASIPeAK
6		832.710	-7.386	42.990	35.605	-10.395	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：120kHz

檢測器：準尖峰值

測試日期：108 年 08 月 28 日

測試項目：一般不必要的輻射強度

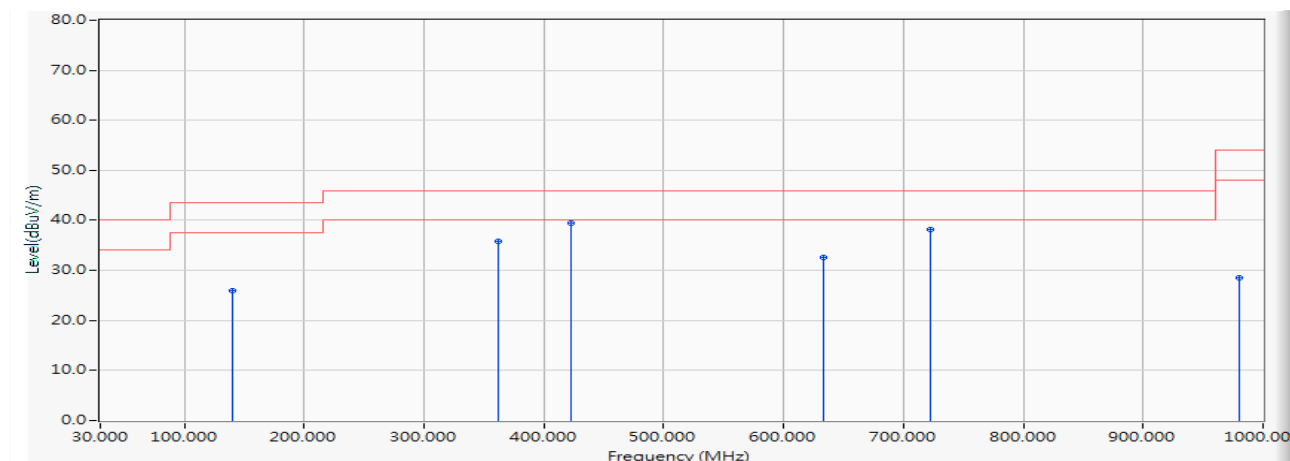
測試模式：Mode 2: 接收器 802.11n (20MHz)

視頻頻寬：120kHz

環境溫度：20 °C

環境濕度：48 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		139.652	-15.227	41.221	25.995	-17.505	43.500	QUASIPeAK
2		361.768	-10.215	46.061	35.846	-10.154	46.000	QUASIPeAK
3	*	422.217	-10.061	49.615	39.554	-6.446	46.000	QUASIPeAK
4		633.087	-7.188	39.797	32.610	-13.390	46.000	QUASIPeAK
5		723.058	-8.326	46.564	38.238	-7.762	46.000	QUASIPeAK
6		980.319	-5.693	34.305	28.612	-25.388	54.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：120kHz

檢測器：準尖峰值

測試日期：108 年 08 月 28 日

測試項目：一般不必要的輻射強度

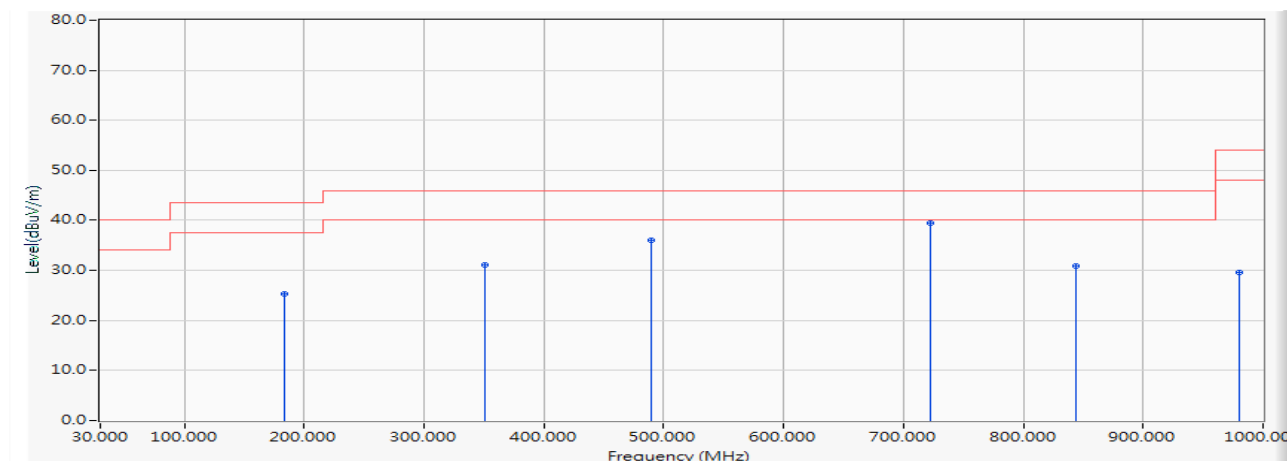
測試模式：Mode 2: 接收器 802.11n (20MHz)

視頻頻寬：120kHz

環境溫度：20 °C

環境濕度：48 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		183.232	-17.822	43.083	25.261	-18.239	43.500	QUASIPeAK
2		350.522	-10.768	41.970	31.202	-14.798	46.000	QUASIPeAK
3		489.696	-9.730	45.799	36.068	-9.932	46.000	QUASIPeAK
4	*	723.058	-8.326	47.760	39.434	-6.566	46.000	QUASIPeAK
5		843.957	-6.810	37.791	30.981	-15.019	46.000	QUASIPeAK
6		980.319	-5.693	35.234	29.541	-24.459	54.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

射頻輻射場強干擾測試結果:

PASS

7. 混附發射之 RF 傳導發射

7.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.5，使用頻帶範圍外之任意 100 千赫 (kHz) 內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫(kHz) 內的射頻功率，至少須衰減 20 dB，以射頻傳導或輻射方式測量。如發射機以本節 3.10.1.2(1)(C)之峰值傳導輸出功率量測方式者，至少須衰減 30 dB。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

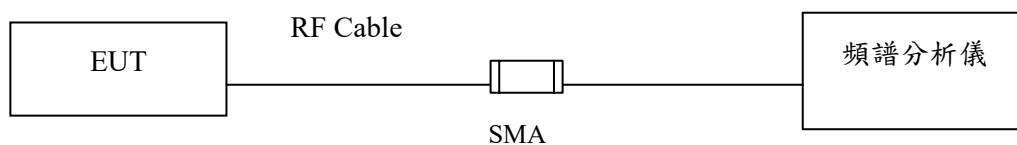
7.2. 量測方法

依據國家通訊傳播委員會低功率射頻電機技術規範之附件三，頻率跳頻展頻系統檢測之參考程序(七) 混附發射之 RF 傳導發射:

(一) 頻譜分析儀設定如下：

1. 頻率掃描範圍足以檢測頻帶內的發射波峰位準以及由受測物產生之最低頻率到第 10 次諧波的所有混附發射，通常需要分幾段以涵蓋全部頻率範圍。
2. 解析頻寬為 100kHz，視訊頻寬不小於解析頻寬。
3. 掃描時間為自動，檢波功能為峰值，訊號軌跡為最大保留(Max Hold)。
4. 將標記設定於任何欲紀錄之波峰上，所顯示之位準值必須符合指定之限制值。

7.3. 測試架構圖



7.4. 量測不確定度

此項測試之量測不確定度為 $\pm 1.20\text{dB}$

7.5. 混附發射之 RF 傳導發射測試結果

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

6 dB 頻寬：100kHz

檢測器：峰值

測試日期：108 年 09 月 04 日

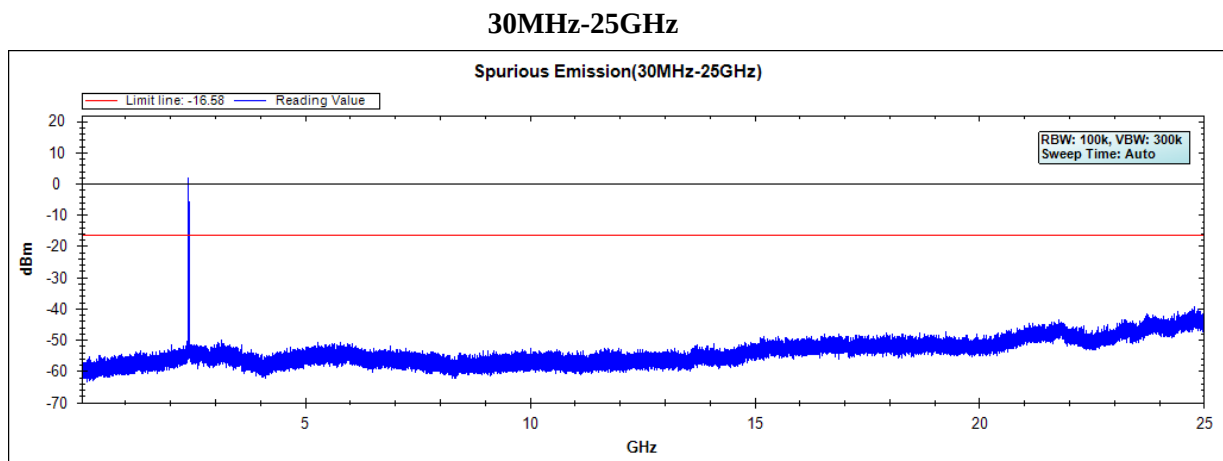
測試項目：混附發射之 RF 傳導發射

測試模式：Mode 1: 發射器 802.11b

視頻頻寬：1MHz

環境溫度：20 °C

環境濕度：52 %



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：100kHz

檢測器：峰值

測試日期：108 年 09 月 04 日

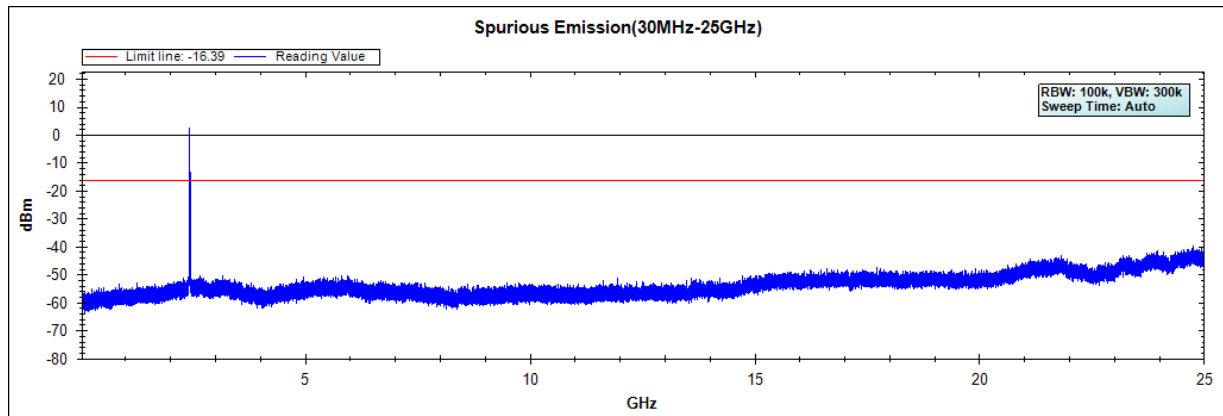
測試項目：混附發射之 RF 傳導發射

測試模式：Mode 1: 發射器 802.11b

視頻頻寬：1MHz

環境溫度：20 °C

環境濕度：52 %

30MHz-25GHz

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

6 dB 頻寬：100kHz

檢測器：峰值

測試日期：108 年 09 月 04 日

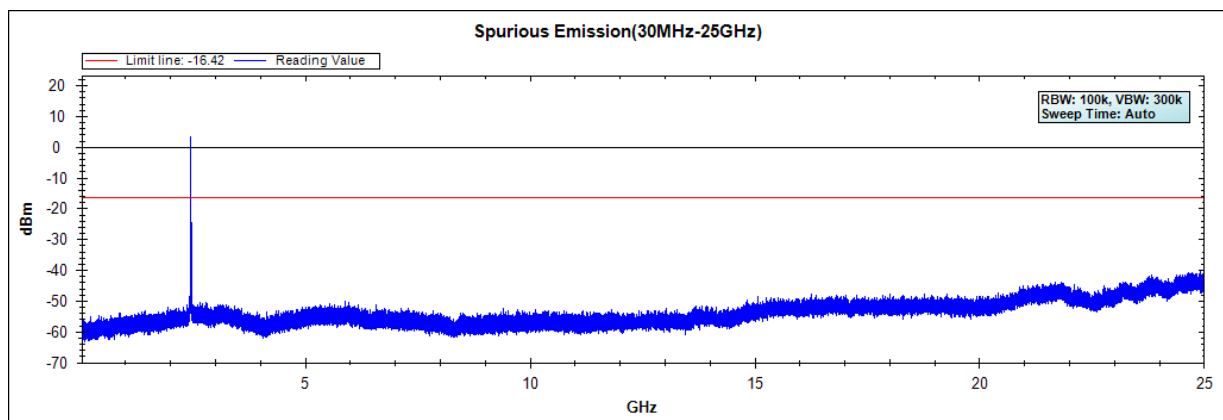
測試項目：混附發射之 RF 傳導發射

測試模式：Mode 1: 發射器 802.11b

視頻頻寬：1MHz

環境溫度：20 °C

環境濕度：52 %

30MHz-25GHz

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

6 dB 頻寬：100kHz

檢測器：峰值

測試日期：108 年 09 月 04 日

測試項目：混附發射之 RF 傳導發射

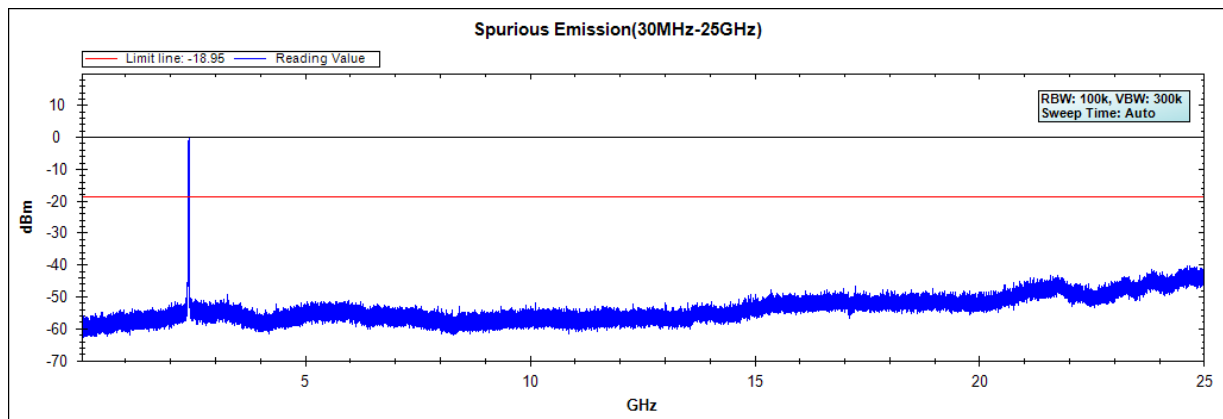
測試模式：Mode 1: 發射器 802.11g

視頻頻寬：1MHz

環境溫度：20 °C

環境濕度：52 %

30MHz-25GHz



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：100kHz

檢測器：峰值

測試日期：108 年 09 月 04 日

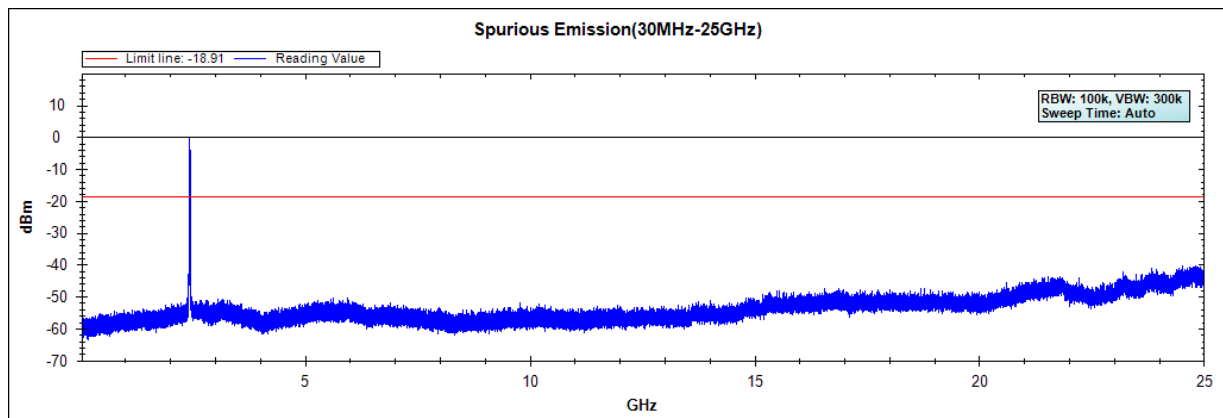
測試項目：混附發射之 RF 傳導發射

測試模式：Mode 1: 發射器 802.11g

視頻頻寬：1MHz

環境溫度：20 °C

環境濕度：52 %

30MHz-25GHz

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

6 dB 頻寬：100kHz

檢測器：峰值

測試日期：108 年 09 月 04 日

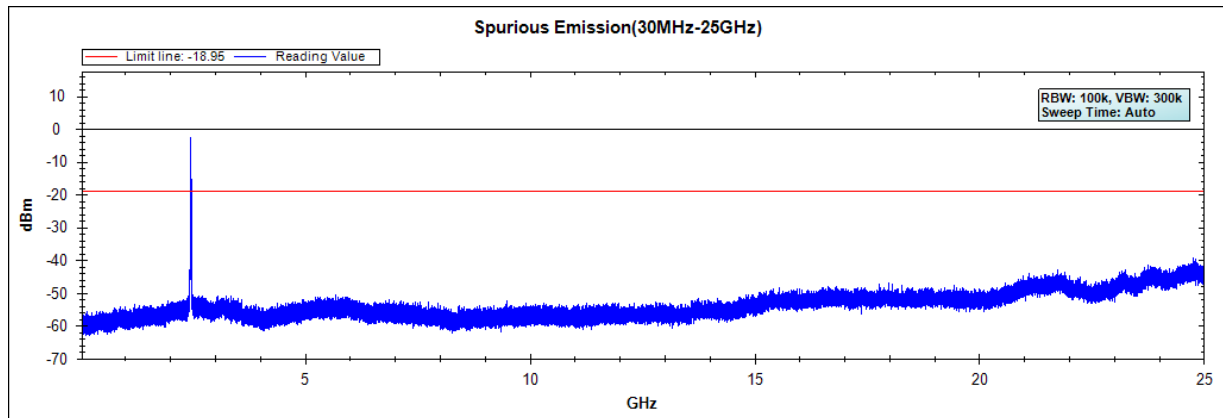
測試項目：混附發射之 RF 傳導發射

測試模式：Mode 1: 發射器 802.11g

視頻頻寬：1MHz

環境溫度：20 °C

環境濕度：52 %

30MHz-25GHz

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

6 dB 頻寬：100kHz

檢測器：峰值

測試日期：108 年 09 月 04 日

測試項目：混附發射之 RF 傳導發射

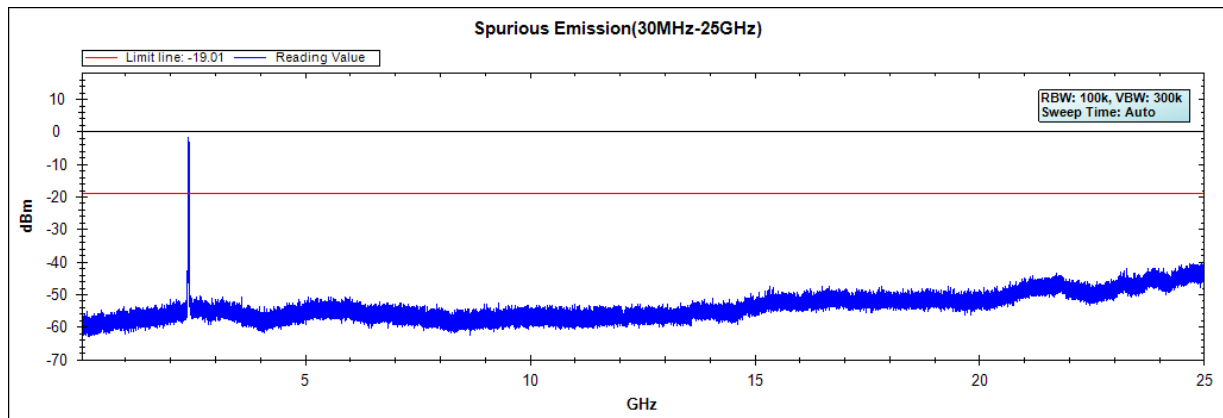
測試模式：Mode 1: 發射器 802.11n (20MHz)

視頻頻寬：1MHz

環境溫度：20 °C

環境濕度：52 %

30MHz-25GHz



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：100kHz

檢測器：峰值

測試日期：108 年 09 月 04 日

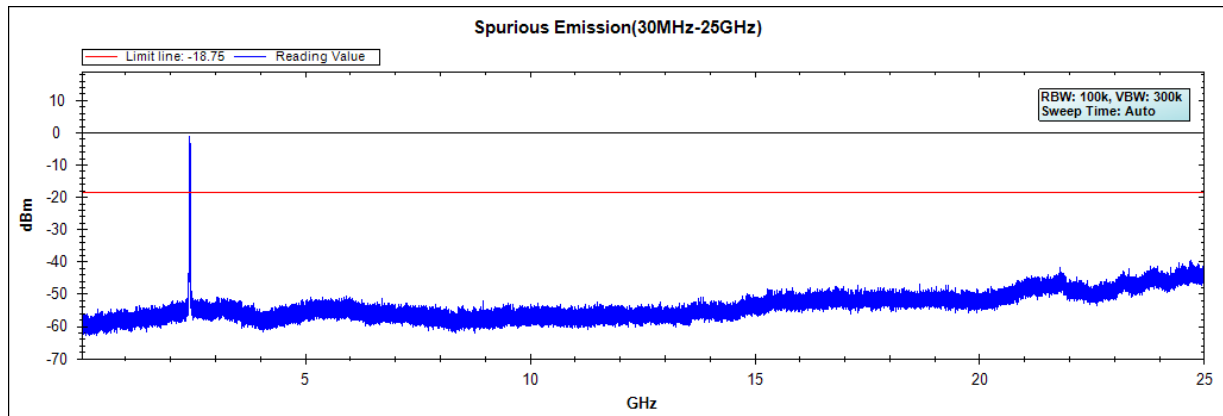
測試項目：混附發射之 RF 傳導發射

測試模式：Mode 1: 發射器 802.11n (20MHz)

視頻頻寬：1MHz

環境溫度：20 °C

環境濕度：52 %

30MHz-25GHz

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

6 dB 頻寬：100kHz

檢測器：峰值

測試日期：108 年 09 月 04 日

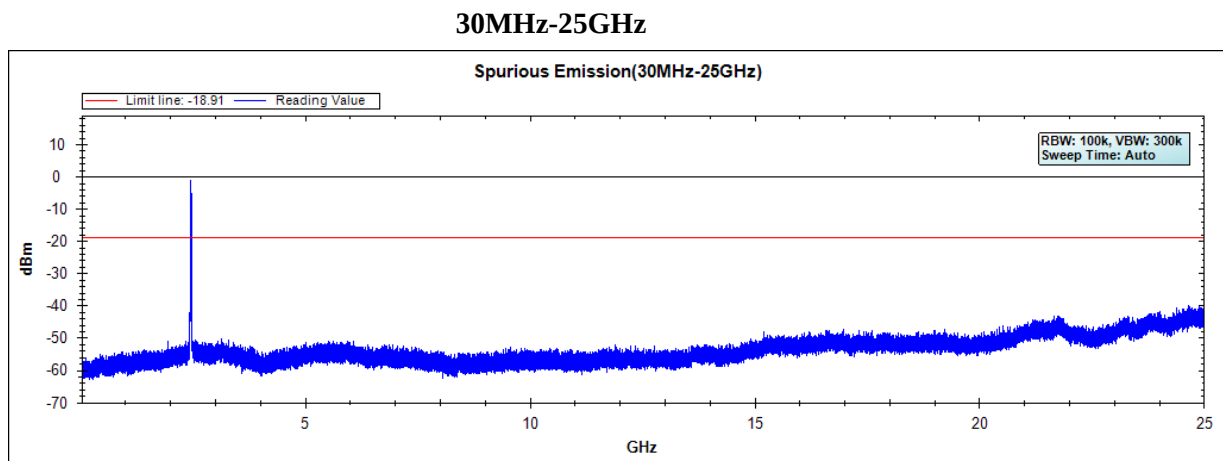
測試項目：混附發射之 RF 傳導發射

測試模式：Mode 1: 發射器 802.11n (20MHz)

視頻頻寬：1MHz

環境溫度：20 °C

環境濕度：52 %



混附發射之 RF 傳導發射測試結果:

PASS

8. 使用頻率範圍外之任意 100 千赫雜訊

8.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.5，使用頻帶範圍外之任意 100 千赫 (kHz) 內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫(kHz)內的射頻功率，至少須衰減 20 dB，以射頻傳導或輻射方式測量。如發射機以本節 3.10.1.2 之峰值傳導輸出功率量測方式者，至少須衰減 30 dB。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

依據國家通訊傳播委員會低功率射頻電機技術規範之第 2.8 節輻射電場強度之限制要求如下：

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

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

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

8.2. 量測方法

RF Conducted Measurement:

待測物之天線埠經由適當之衰減直接連至頻譜分析儀 RF 輸入端，設定頻譜分析儀之解析度頻寬為 100kHz，視訊頻寬大於解析度頻寬。

待測物應在正常發射狀態下量測。

RF Radiated Measurement:

待測物置於高 150 公分之非導體桌面（落地型產品置於地上），桌面可 360 度旋轉，接收天線置於距待測物 3m 距離，高度可在 1 至 4 公尺間變動，以量測待測物之最大輻射電場強度。接收天線並應於水平及垂直極化方向各量測一次。

待測物應在正常發射狀態下量測。

RBW and VBW Parameter setting:

According to KDB 558074 section 12.2.4. Peak power measurement procedure

RBW = as specified in Table 1.

VBW $\geq$ 3 x RBW.

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

According to KDB 558074 section 12.2.5. Average power measurement procedure

RBW = 1MHz.

VBW = 10Hz, when duty cycle $\geq$ 98 %

VBW $\geq$ 1/T, when duty cycle < 98 %

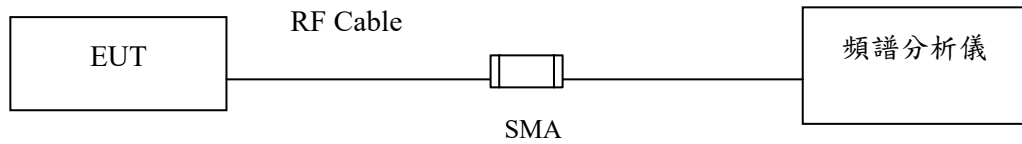
(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11b	99.32	8.4638	118	10
802.11g	94.98	1.3768	726	1000
802.11n20	97.08	1.9275	519	1000

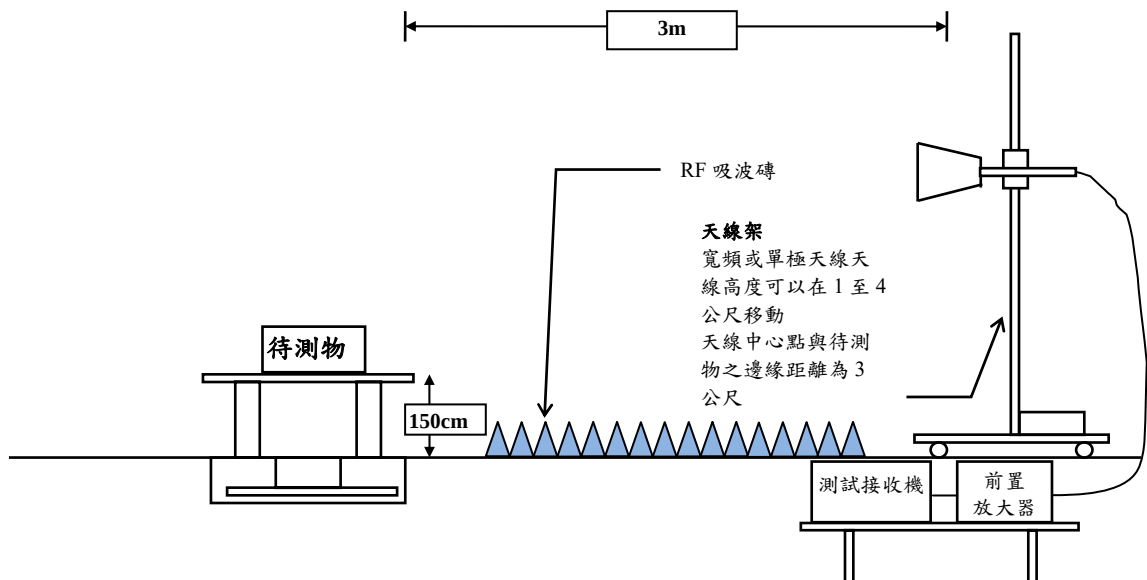
Note: Duty Cycle Refer to Section 11

8.3. 測試架構圖

RF Conducted Measurement:



RF Radiated Measurement:



8.4. 量測不確定度

此項測試之量測不確定度 1GHz 以上為 $\pm 4.08\text{dB}$

1GHz 以下為 $\pm 4.22\text{dB}$

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

8.5. 使用頻率範圍外之任意 100 千赫雜訊測試結果

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

測試日期：108 年 09 月 04 日

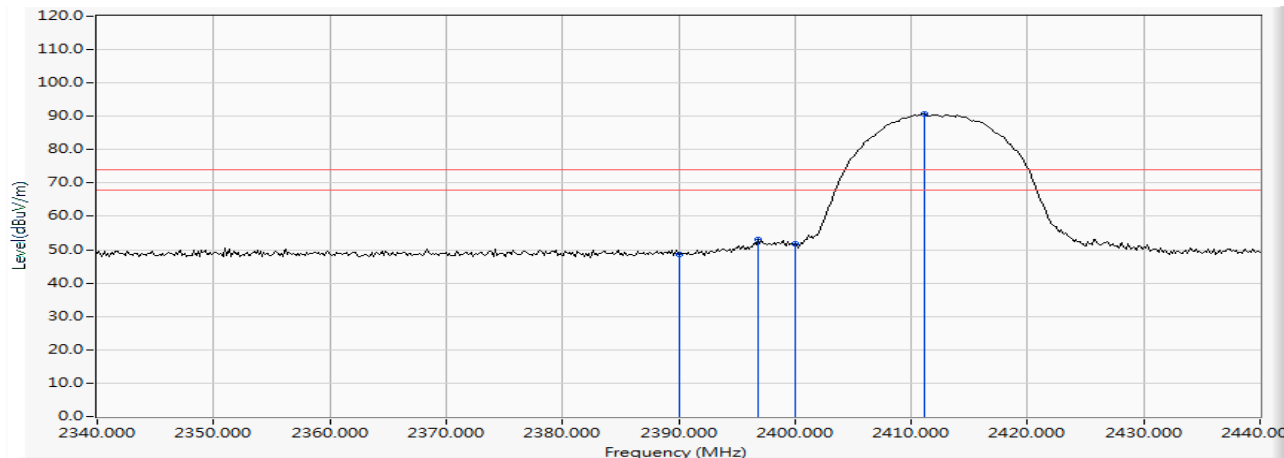
測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：52 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	39.796	48.559	-25.441	74.000	PEAK
2		2396.812	8.788	44.384	53.172	--	--	PEAK
3		2400.000	8.799	43.021	51.820	--	--	PEAK
4	*	2411.159	8.839	81.898	90.737	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

測試日期：108 年 09 月 04 日

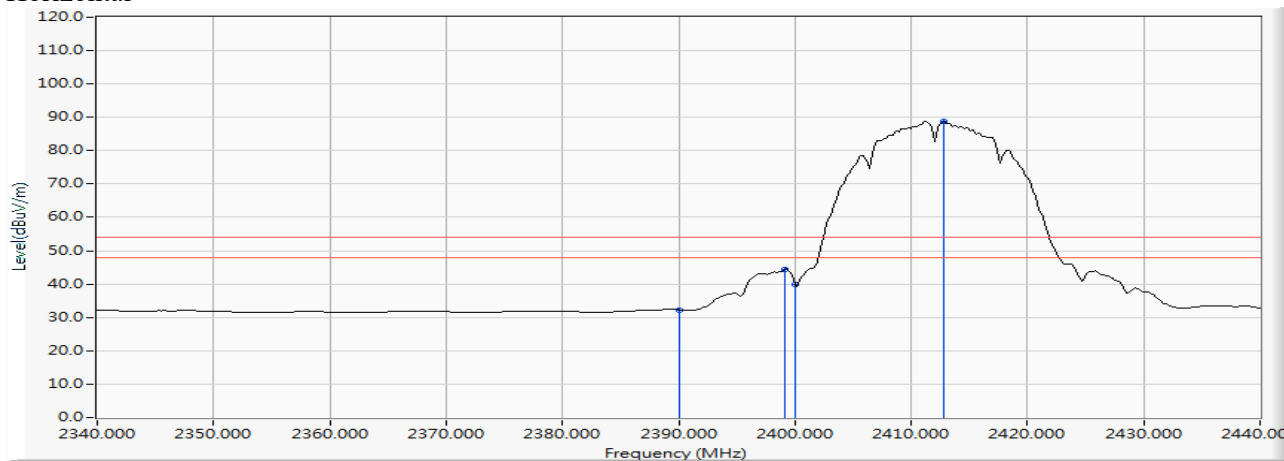
測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：52 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	23.563	32.326	-21.674	54.000	AVERAGE
2		2399.130	8.797	35.715	44.511	--	--	AVERAGE
3		2400.000	8.799	31.225	40.024	--	--	AVERAGE
4	*	2412.754	8.844	80.031	88.875	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

測試日期：108 年 09 月 04 日

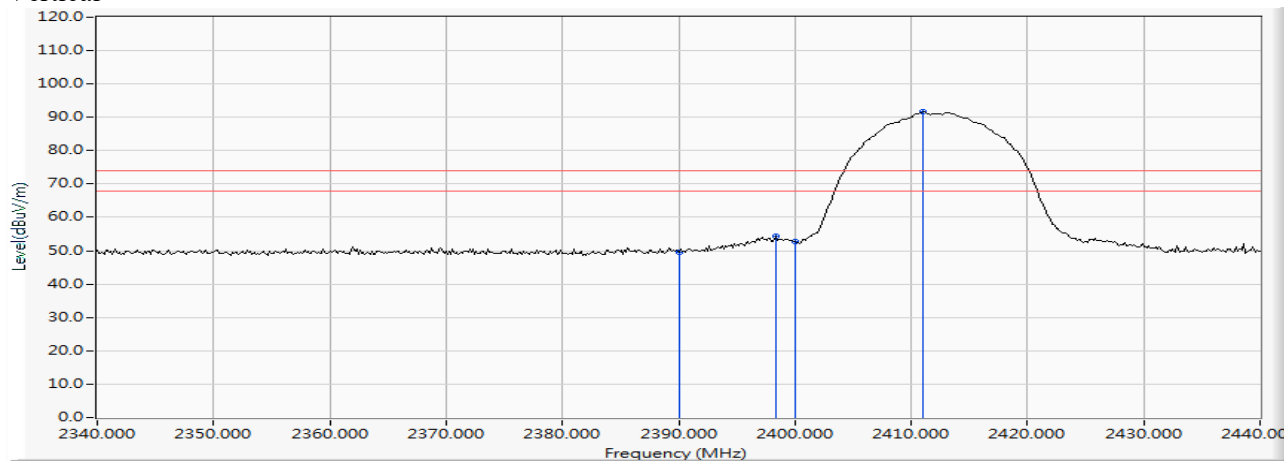
測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：52 %

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	40.861	49.624	-24.376	74.000	PEAK
2		2398.406	8.793	45.563	54.356	--	--	PEAK
3		2400.000	8.799	43.845	52.644	--	--	PEAK
4	*	2411.014	8.838	82.734	91.572	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

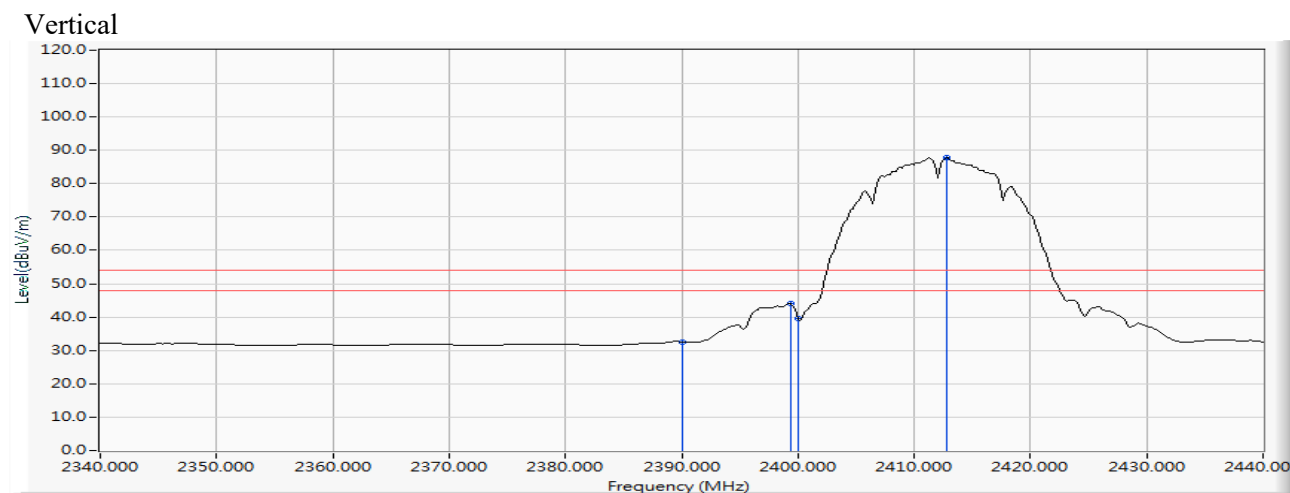
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	23.795	32.558	-21.442	54.000	AVERAGE
2		2399.420	8.797	35.274	44.071	--	--	AVERAGE
3		2400.000	8.799	30.868	39.667	--	--	AVERAGE
4	*	2412.754	8.844	78.963	87.807	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 09 月 04 日

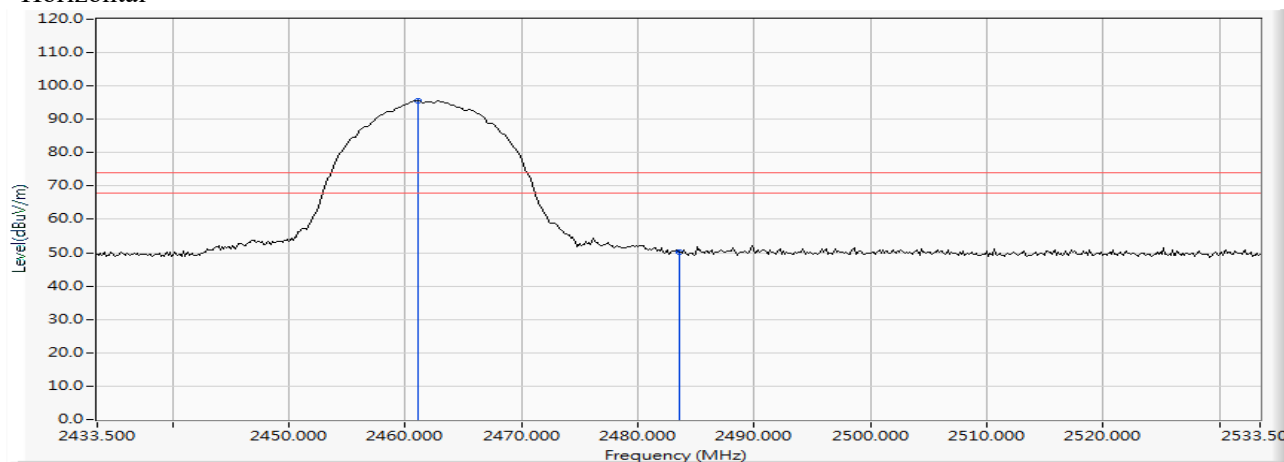
測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：52 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.036	9.018	86.658	95.676	--	--	PEAK
2		2483.500	9.100	40.993	50.092	-23.908	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 09 月 04 日

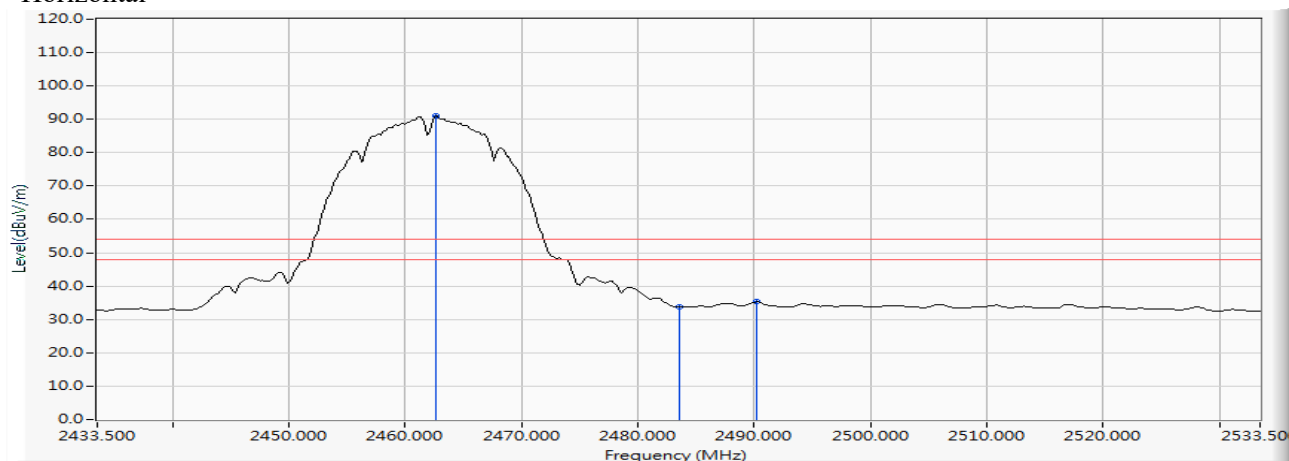
測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：52 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.630	9.024	81.903	90.927	--	--	AVERAGE
2		2483.500	9.100	24.563	33.662	-20.338	54.000	AVERAGE
3		2490.167	9.124	26.135	35.259	-18.741	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

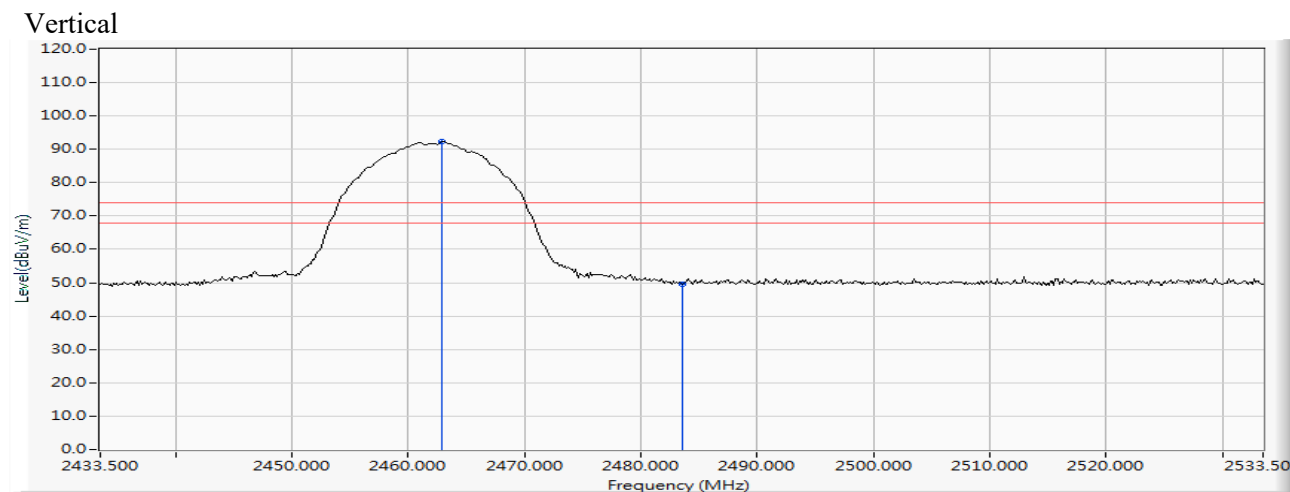
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.920	9.025	83.170	92.195	--	--	PEAK
2		2483.500	9.100	40.535	49.634	-24.366	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

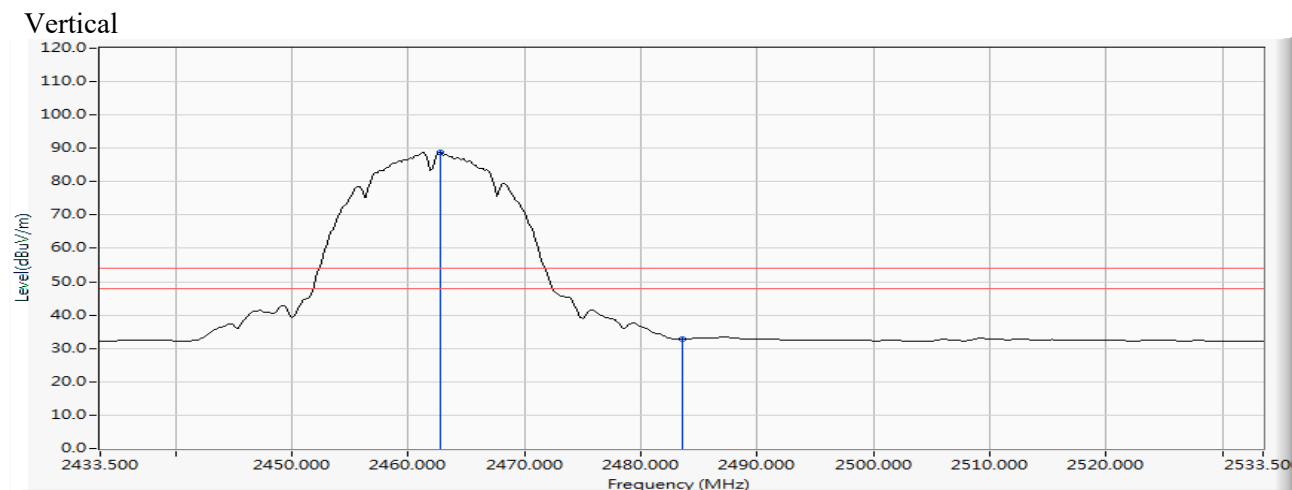
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11b

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.775	9.024	79.850	88.874	--	--	AVERAGE
2		2483.500	9.100	23.664	32.763	-21.237	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

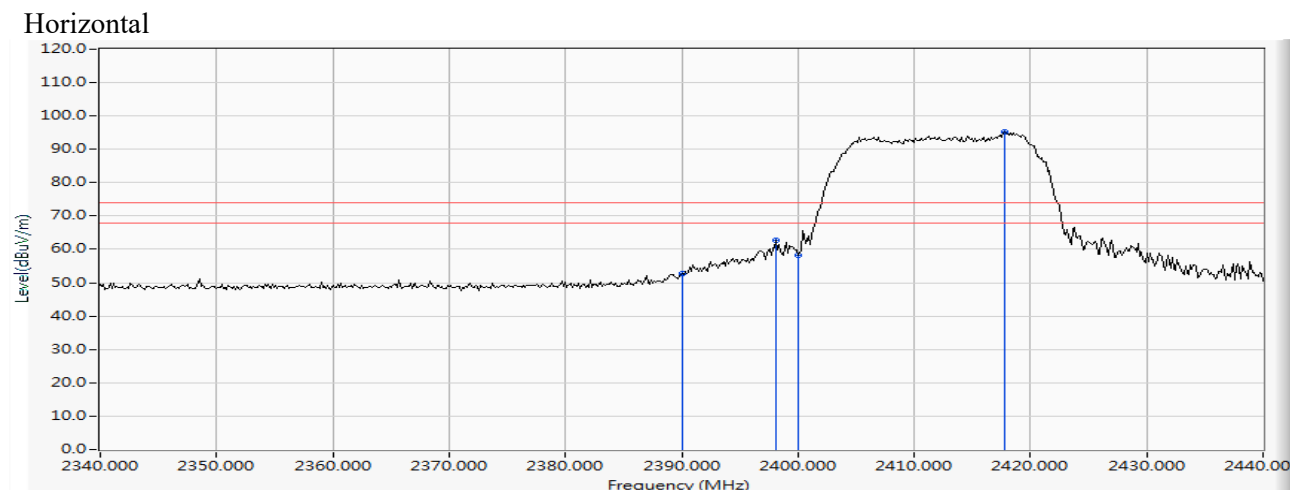
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11g

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	44.135	52.898	-21.102	74.000	PEAK
2		2398.116	8.792	54.046	62.838	--	--	PEAK
3		2400.000	8.799	49.484	58.283	--	--	PEAK
4	*	2417.826	8.863	86.523	95.386	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

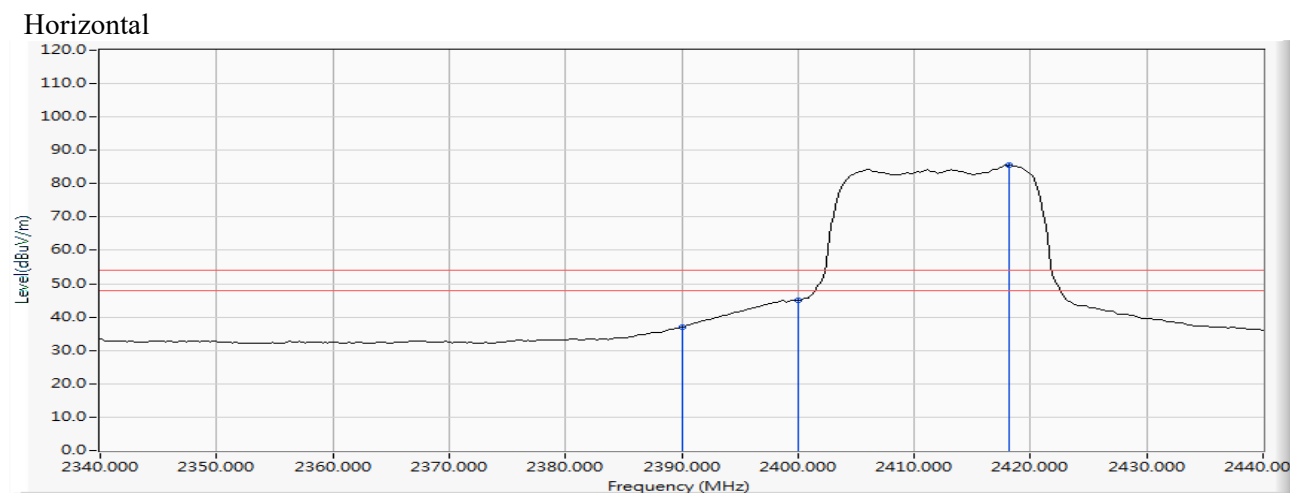
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11g

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	28.208	36.971	-17.029	54.000	AVERAGE
2		2400.000	8.799	36.183	44.982	--	--	AVERAGE
3	*	2418.116	8.864	76.638	85.502	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

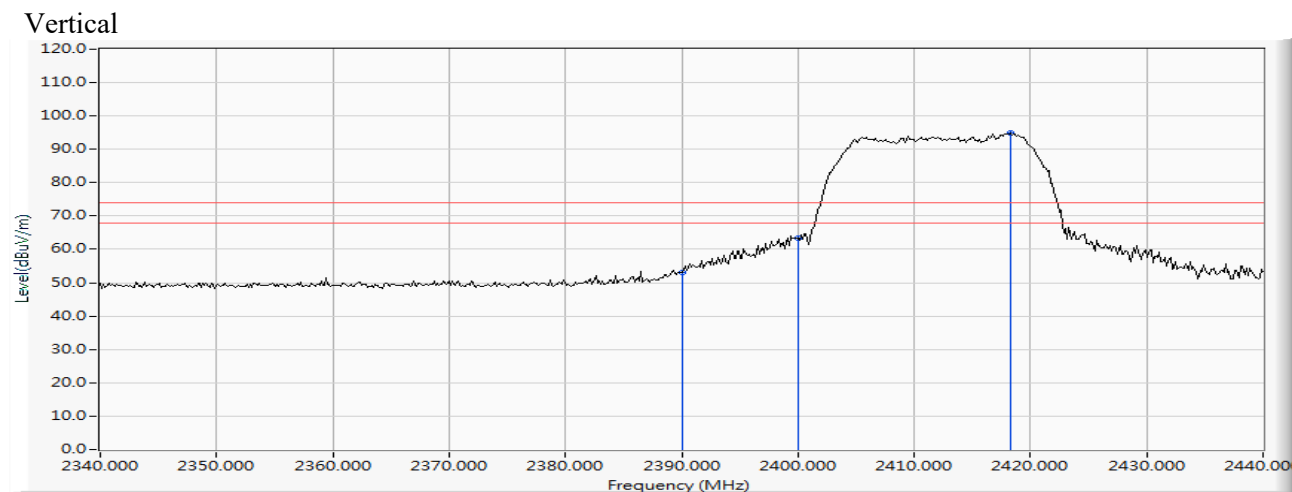
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11g

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	44.342	53.105	-20.895	74.000	PEAK
2		2400.000	8.799	54.572	63.371	--	--	PEAK
3	*	2418.261	8.864	86.173	95.037	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

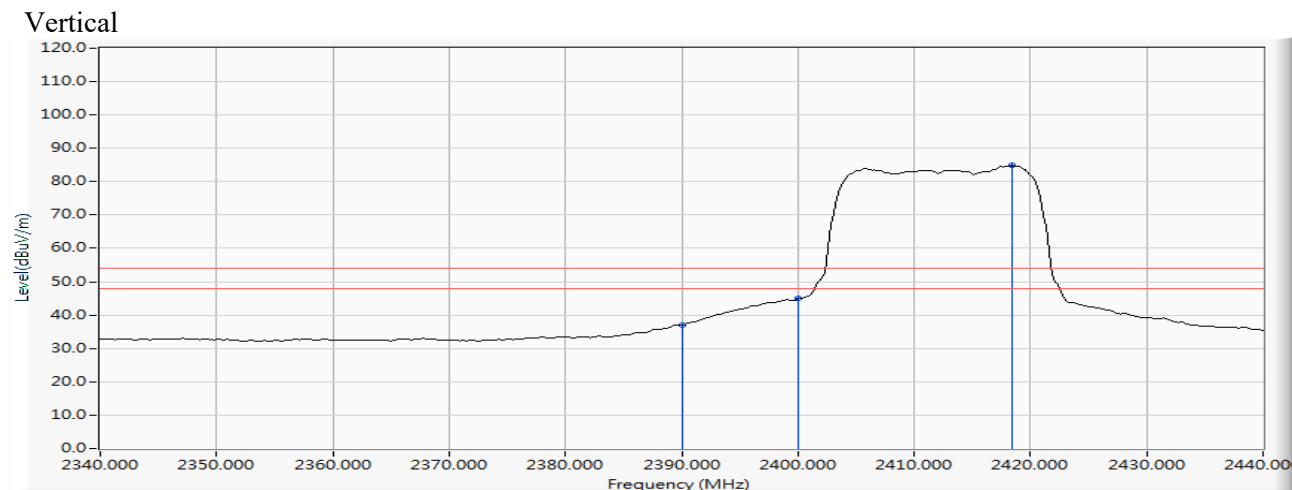
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11g

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	28.118	36.881	-17.119	54.000	AVERAGE
2		2400.000	8.799	36.098	44.897	--	--	AVERAGE
3	*	2418.406	8.865	75.936	84.801	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

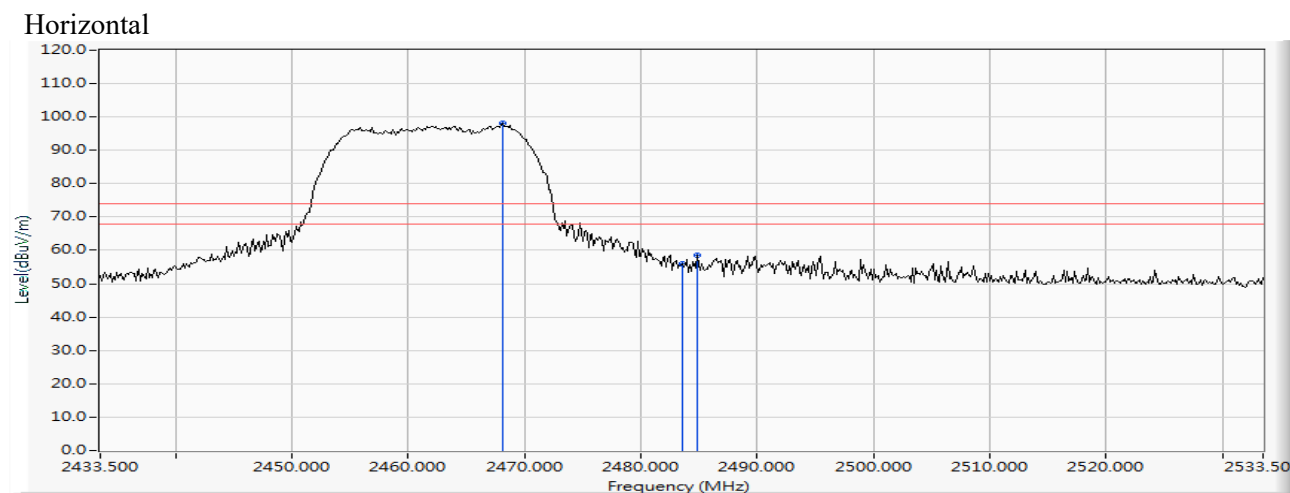
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11g

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2468.138	9.044	88.965	98.009	--	--	PEAK
2		2483.500	9.100	46.747	55.846	-18.154	74.000	PEAK
3		2484.804	9.103	49.451	58.555	-15.445	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 09 月 04 日

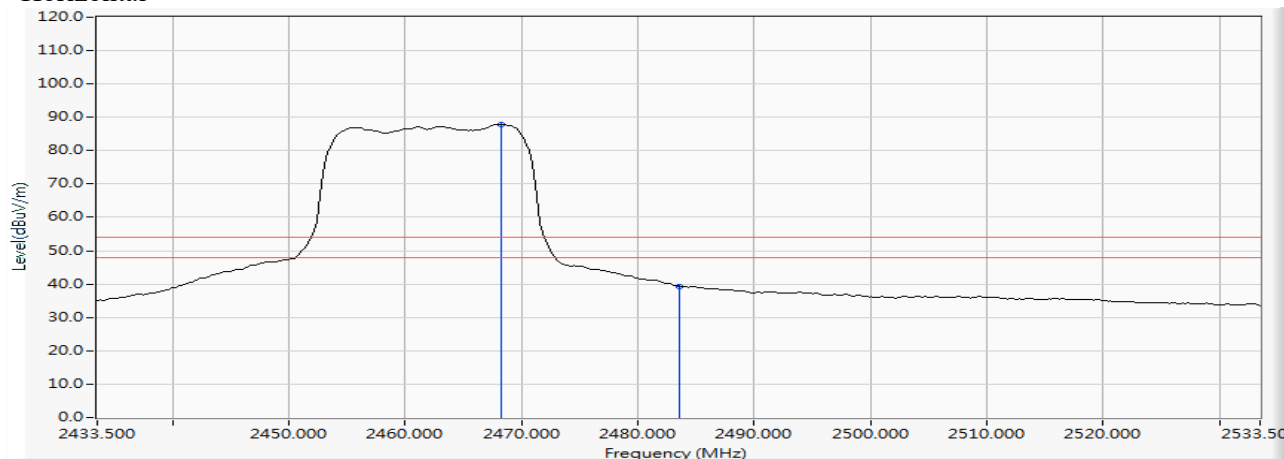
測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11g

環境溫度：20 °C

環境濕度：52 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2468.283	9.044	78.929	87.974	--	--	AVERAGE
2		2483.500	9.100	30.052	39.151	-14.849	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

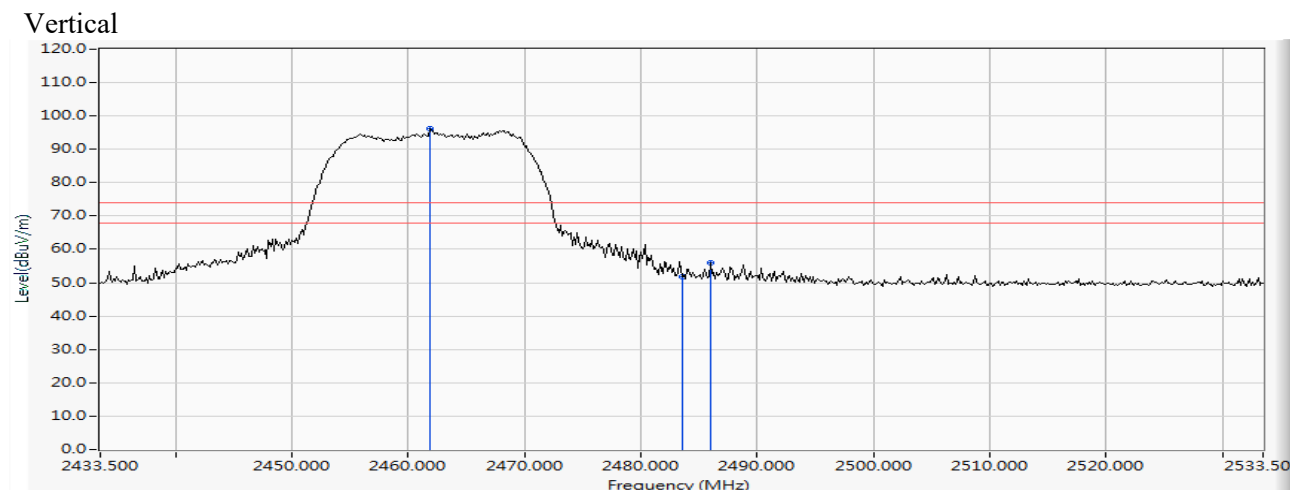
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11g

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.906	9.022	87.016	96.037	--	--	PEAK
2		2483.500	9.100	42.777	51.876	-22.124	74.000	PEAK
3		2485.964	9.108	46.735	55.843	-18.157	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

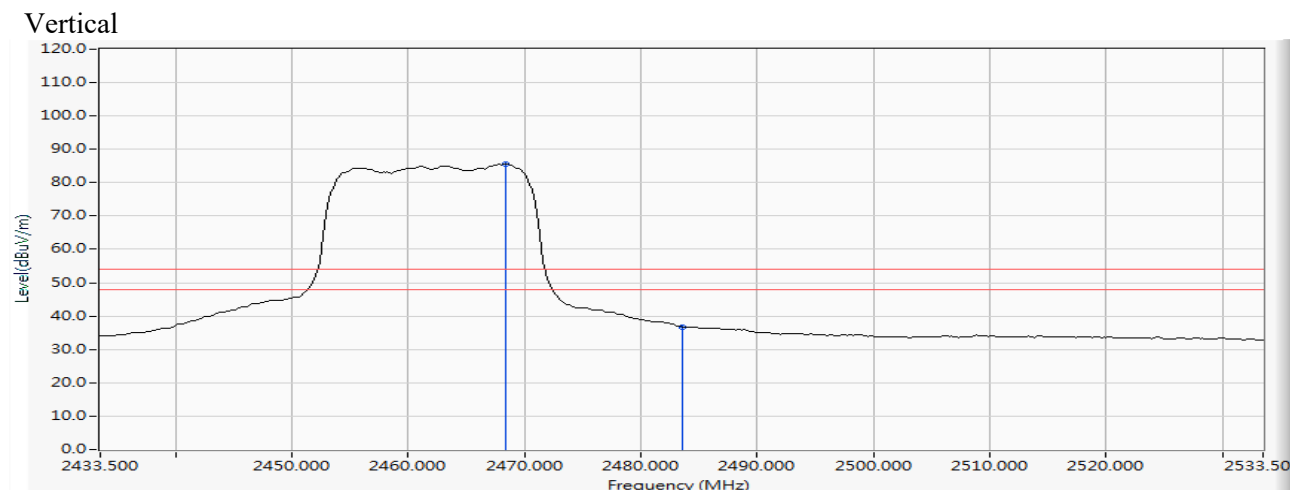
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11g

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2468.428	9.045	76.477	85.522	--	--	AVERAGE
2		2483.500	9.100	27.581	36.680	-17.320	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

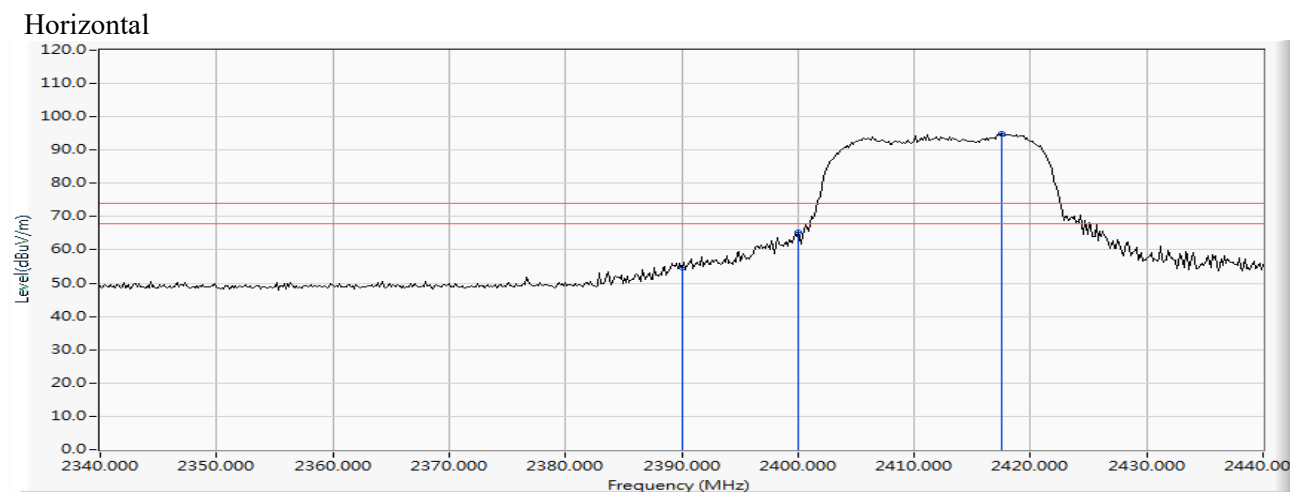
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	45.835	54.598	-19.402	74.000	PEAK
2		2400.000	8.799	56.443	65.242	--	--	PEAK
3	*	2417.536	8.862	86.029	94.891	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

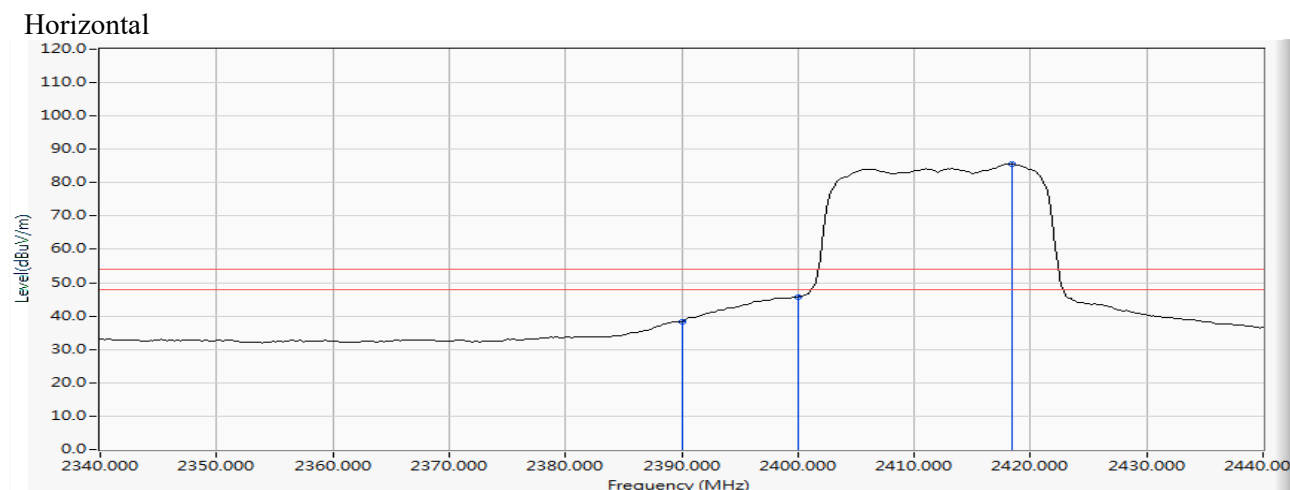
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	29.646	38.409	-15.591	54.000	AVERAGE
2		2400.000	8.799	36.988	45.787	--	--	AVERAGE
3	*	2418.406	8.865	76.706	85.571	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

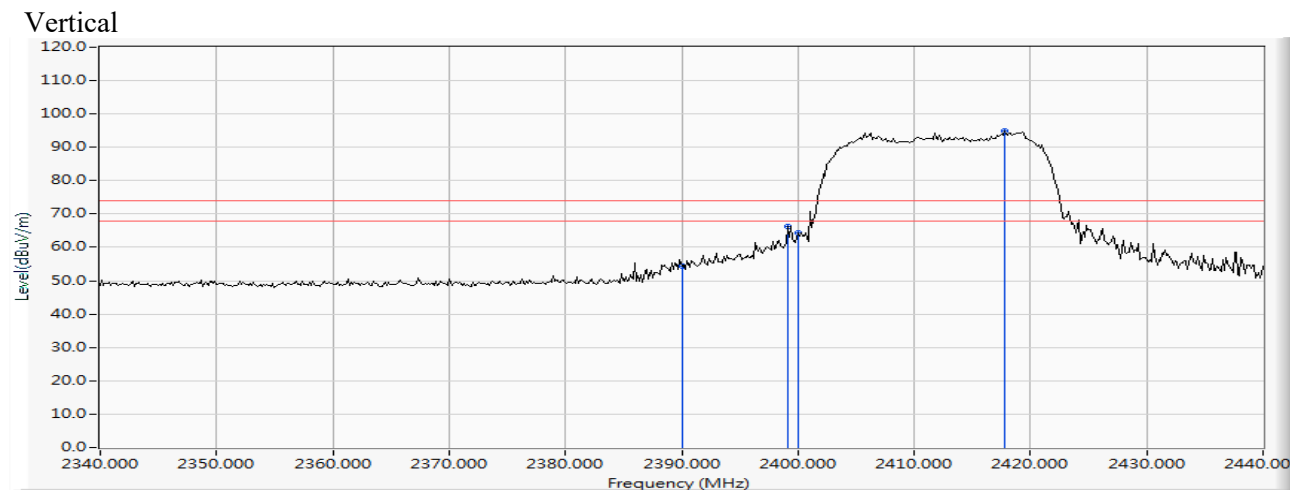
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	45.590	54.353	-19.647	74.000	PEAK
2		2399.130	8.797	57.560	66.356	--	--	PEAK
3		2400.000	8.799	55.513	64.312	--	--	PEAK
4	*	2417.826	8.863	86.037	94.900	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

檢測器：峰值 & 平均值

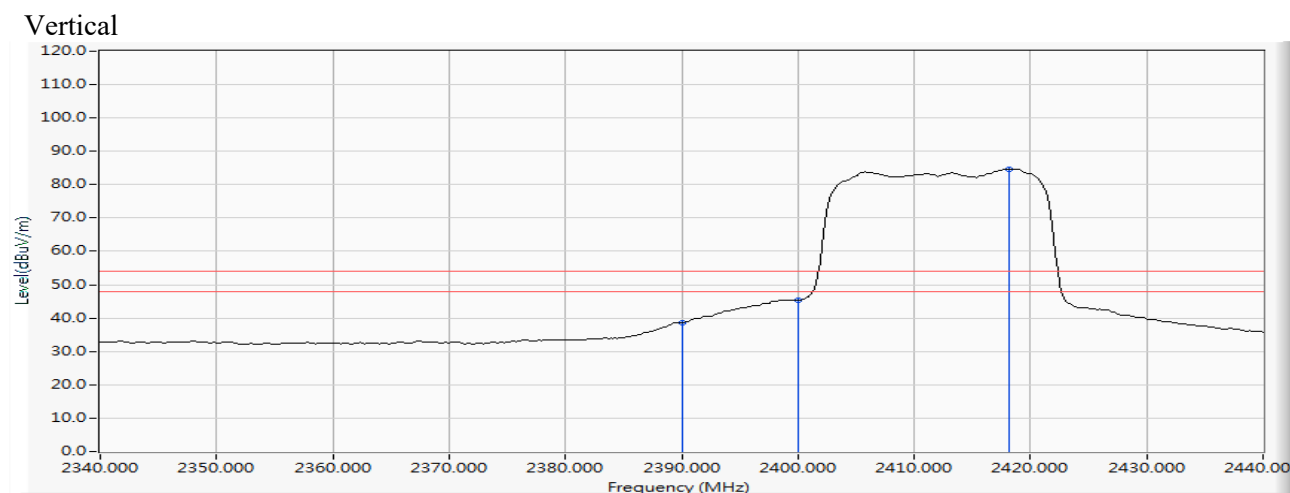
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	29.868	38.631	-15.369	54.000	AVERAGE
2		2400.000	8.799	36.519	45.318	--	--	AVERAGE
3	*	2418.116	8.864	75.828	84.692	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 09 月 04 日

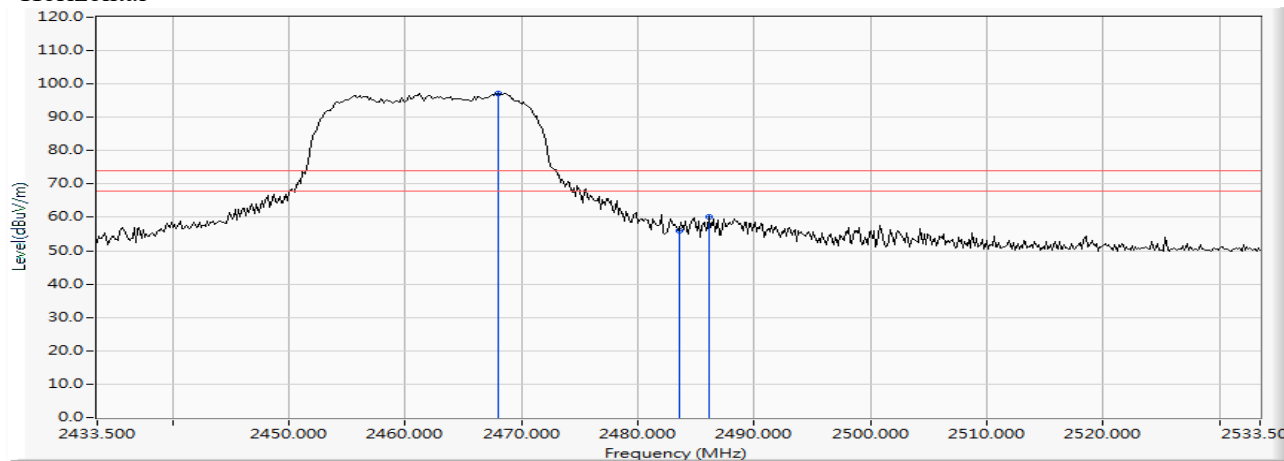
測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：52 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2467.993	9.043	88.111	97.155	--	--	PEAK
2		2483.500	9.100	46.865	55.964	-18.036	74.000	PEAK
3		2486.109	9.109	51.051	60.160	-13.840	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

測試日期：108 年 09 月 04 日

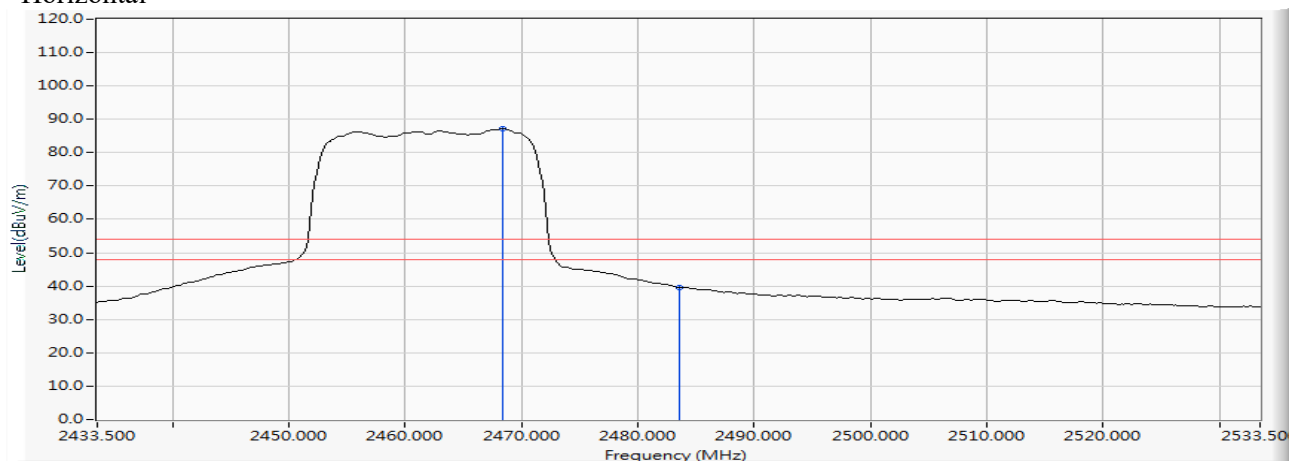
測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：52 %

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2468.428	9.045	78.254	87.299	--	--	AVERAGE
2		2483.500	9.100	30.395	39.494	-14.506	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

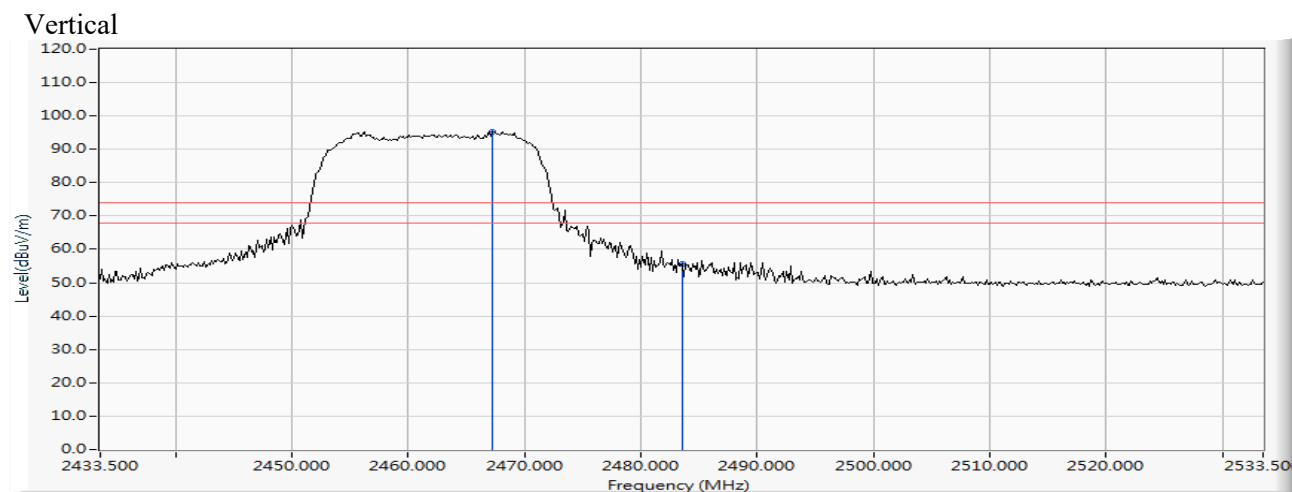
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2467.268	9.041	86.330	95.371	--	--	PEAK
2		2483.500	9.100	46.495	55.594	-18.406	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

檢測器：峰值 & 平均值

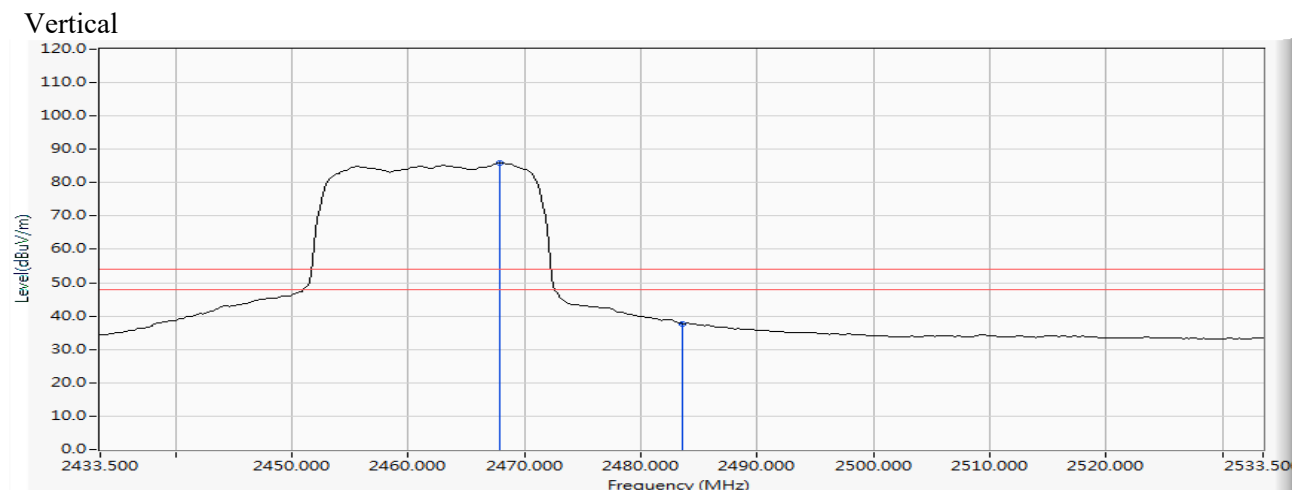
測試日期：108 年 09 月 04 日

測試項目：使用頻率範圍外之任意 100 千赫雜訊

測試模式：Mode 1: 發射器 802.11n (20MHz)

環境溫度：20 °C

環境濕度：52 %



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2467.848	9.043	77.010	86.053	--	--	AVERAGE
2		2483.500	9.100	28.553	37.652	-16.348	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

9. 佔用頻道寬度

9.1. 適用標準

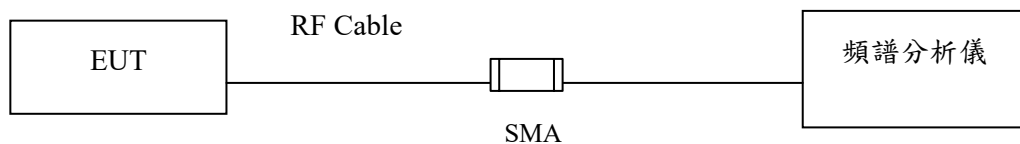
依據國家通訊傳播委員會低功率射頻電機技術規範之第3.10.1.6之要求，6dB頻寬至少應有500千赫(kHz)。

9.2. 量測方法

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

待測物應在正常發射狀態下量測。

9.3. 測試架構圖



9.4. 量測不確定度

此項測試之量測不確定度為 $\pm 283\text{Hz}$

9.5. 佔用頻帶寬度測試結果

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108 年 09 月 04 日

測試項目：佔用頻帶寬度

測試模式：Mode 1: 發射器 802.11b

視頻頻寬：300kHz

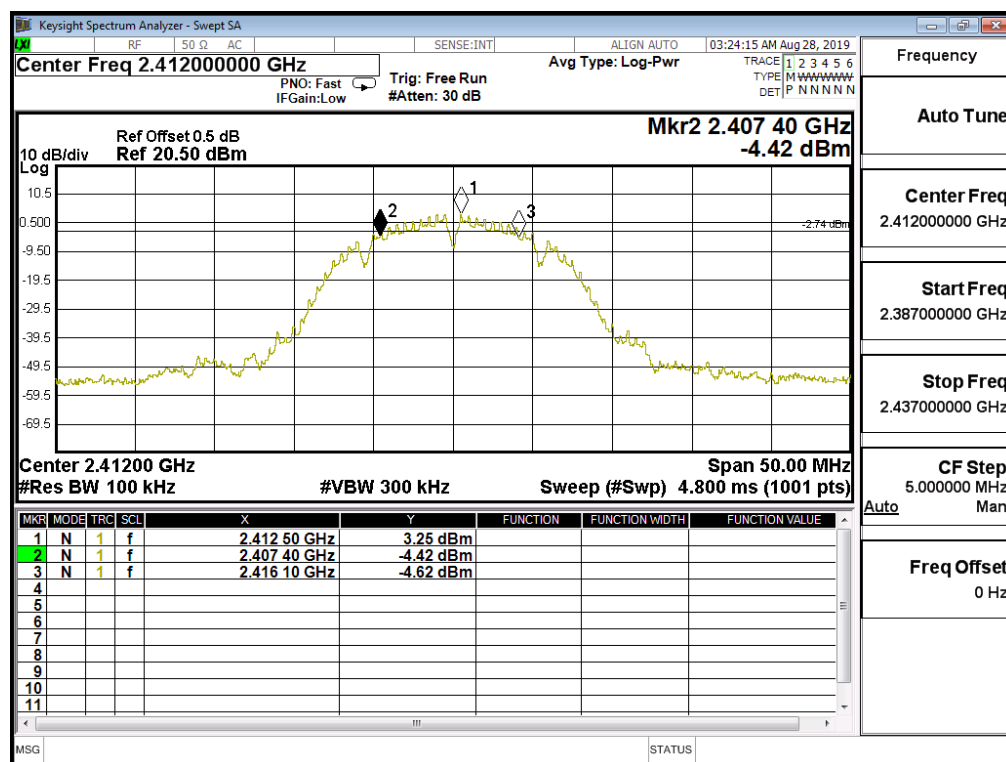
測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
1	2412.00	8700	>500	Pass

Figure Channel 1:



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年09月04日

測試項目：佔用頻帶寬度

測試模式：Mode 1: 發射器 802.11b

視頻頻寬：300kHz

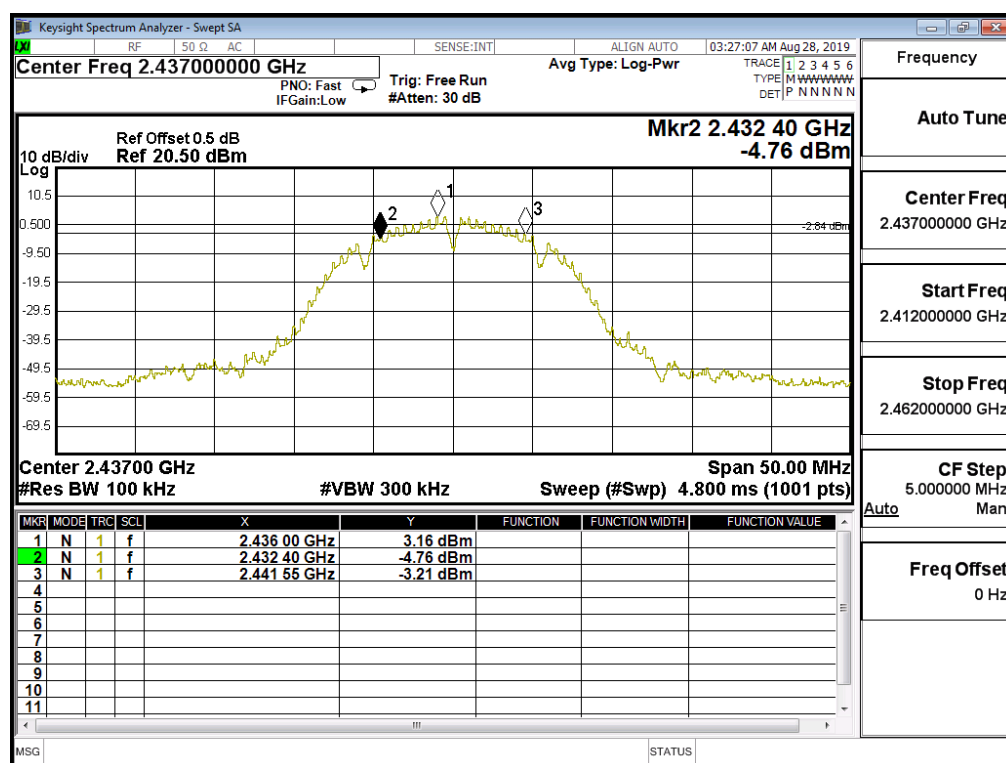
測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
6	2437.00	9150	>500	Pass

Figure Channel 6:



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年09月04日

測試項目：佔用頻帶寬度

測試模式：Mode 1: 發射器 802.11b

視頻頻寬：300kHz

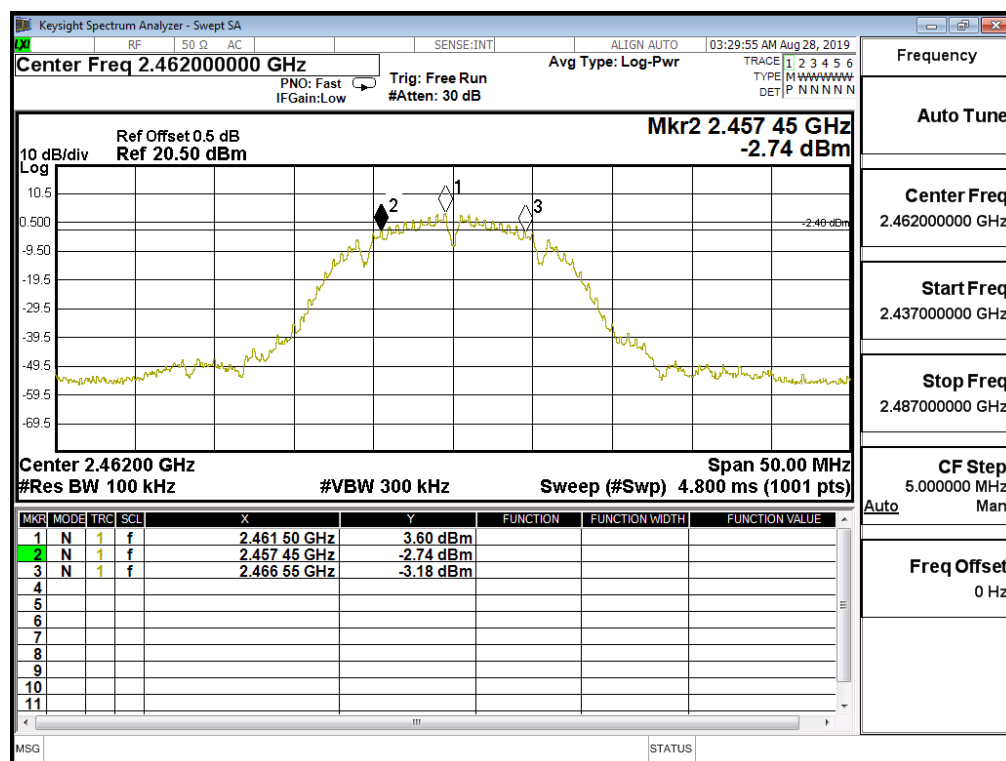
測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
11	2462.00	9100	>500	Pass

Figure Channel 11:



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108 年 09 月 04 日

測試項目：佔用頻帶寬度

測試模式：Mode 1: 發射器 802.11g

視頻頻寬：300kHz

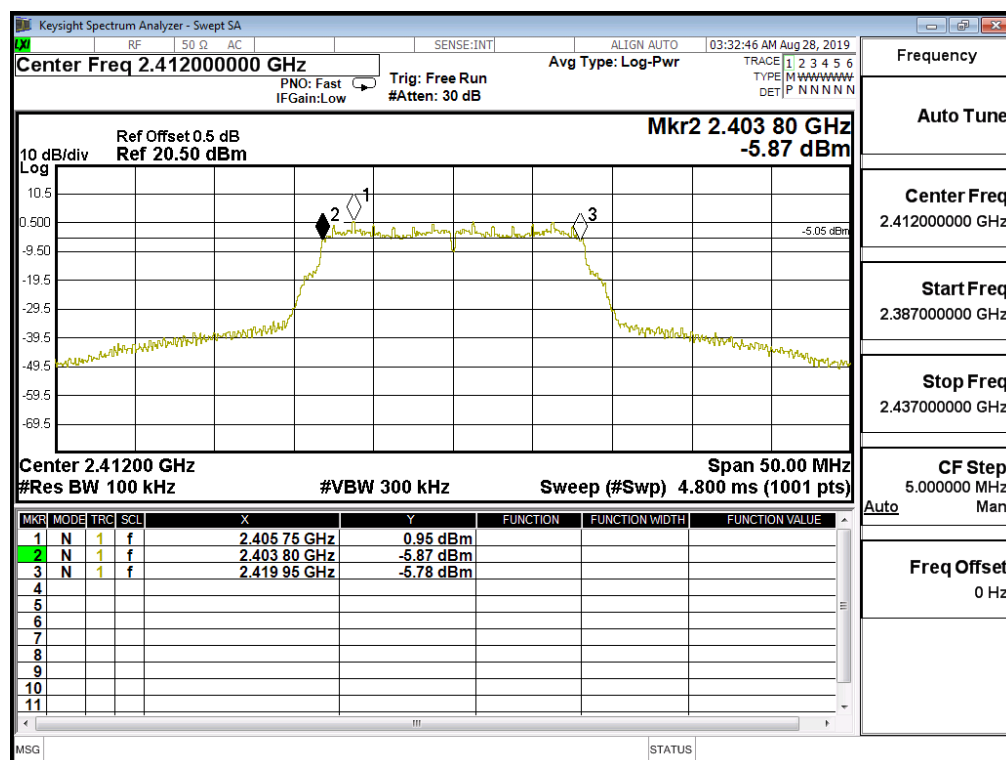
測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
1	2412.00	16150	>500	Pass

Figure Channel 1:



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108 年 09 月 04 日

測試項目：佔用頻帶寬度

測試模式：Mode 1: 發射器 802.11g

視頻頻寬：300kHz

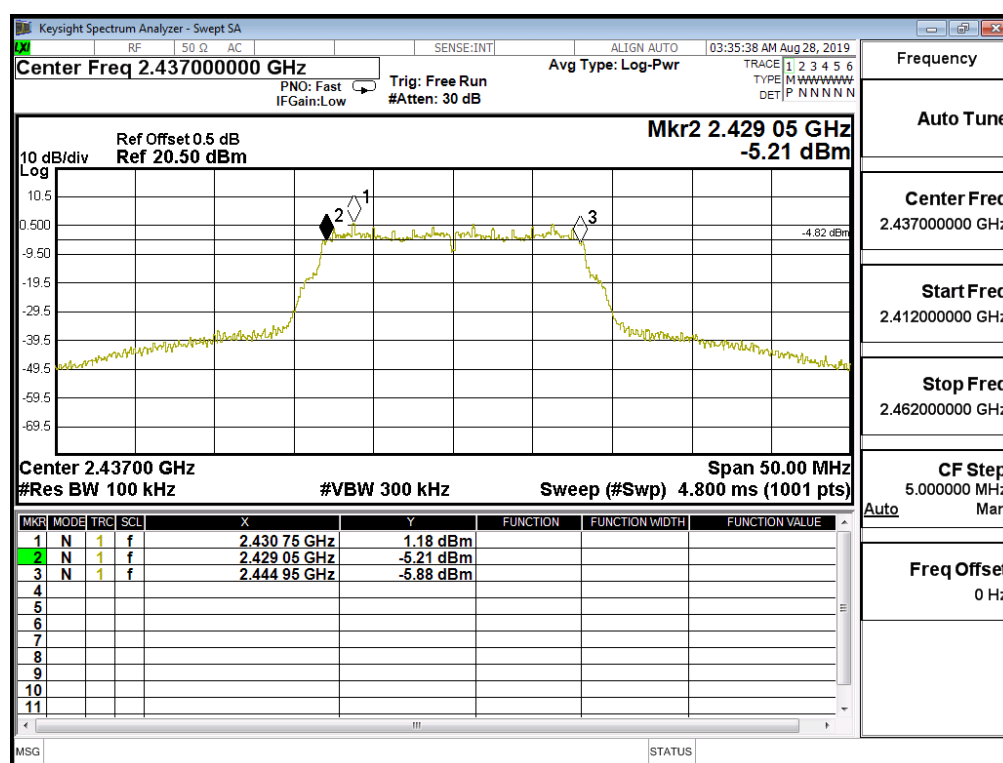
測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
6	2437.00	15900	>500	Pass

Figure Channel 6:



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108 年 09 月 04 日

測試項目：佔用頻帶寬度

測試模式：Mode 1: 發射器 802.11g

視頻頻寬：300kHz

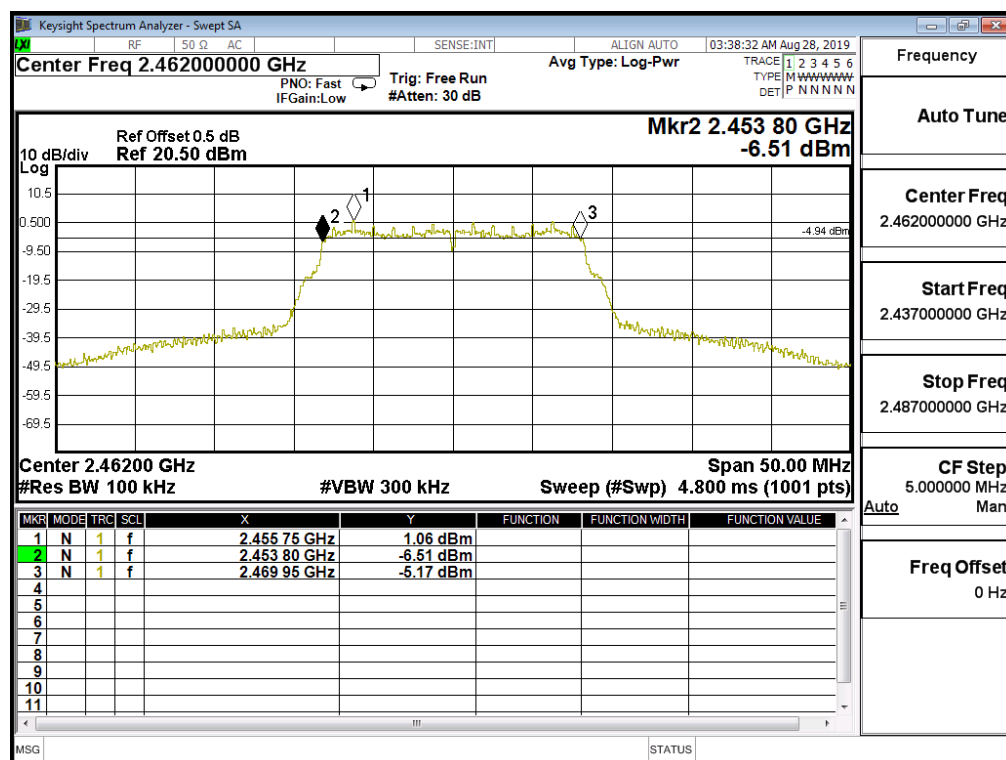
測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
11	2462.00	16150	>500	Pass

Figure Channel 11:



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108 年 09 月 04 日

測試項目：佔用頻帶寬度

測試模式：Mode 1: 發射器 802.11n (20MHz)

視頻頻寬：300kHz

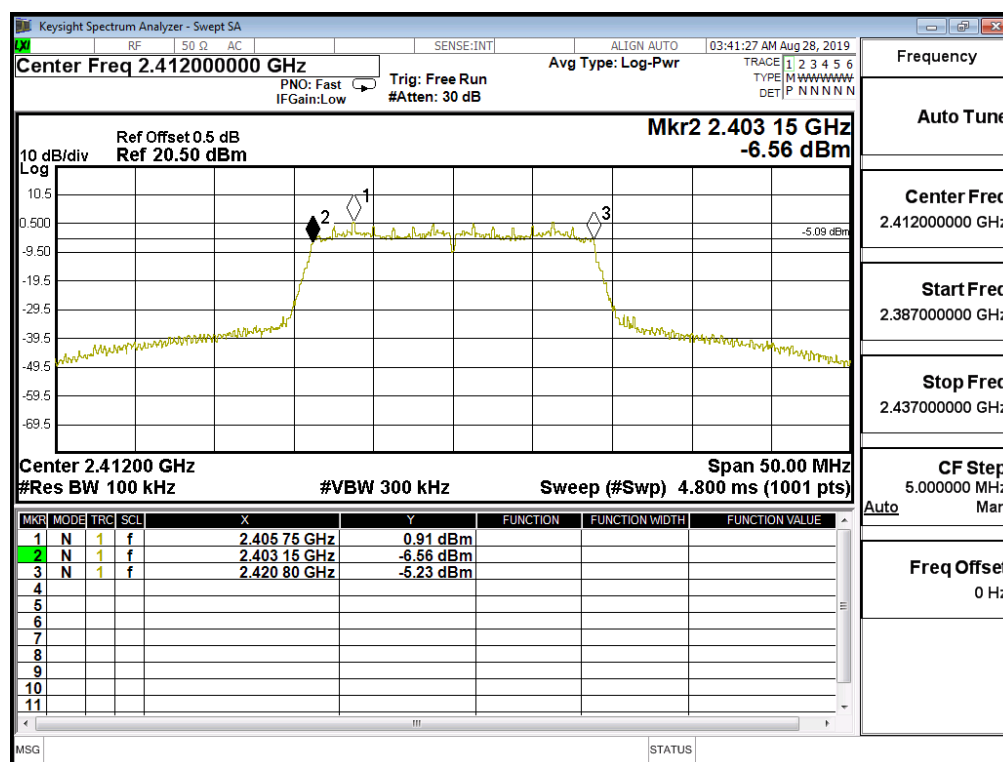
測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	17650	>500	Pass

Figure Channel 1:



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108 年 09 月 04 日

測試項目：佔用頻帶寬度

測試模式：Mode 1: 發射器 802.11n (20MHz)

視頻頻寬：300kHz

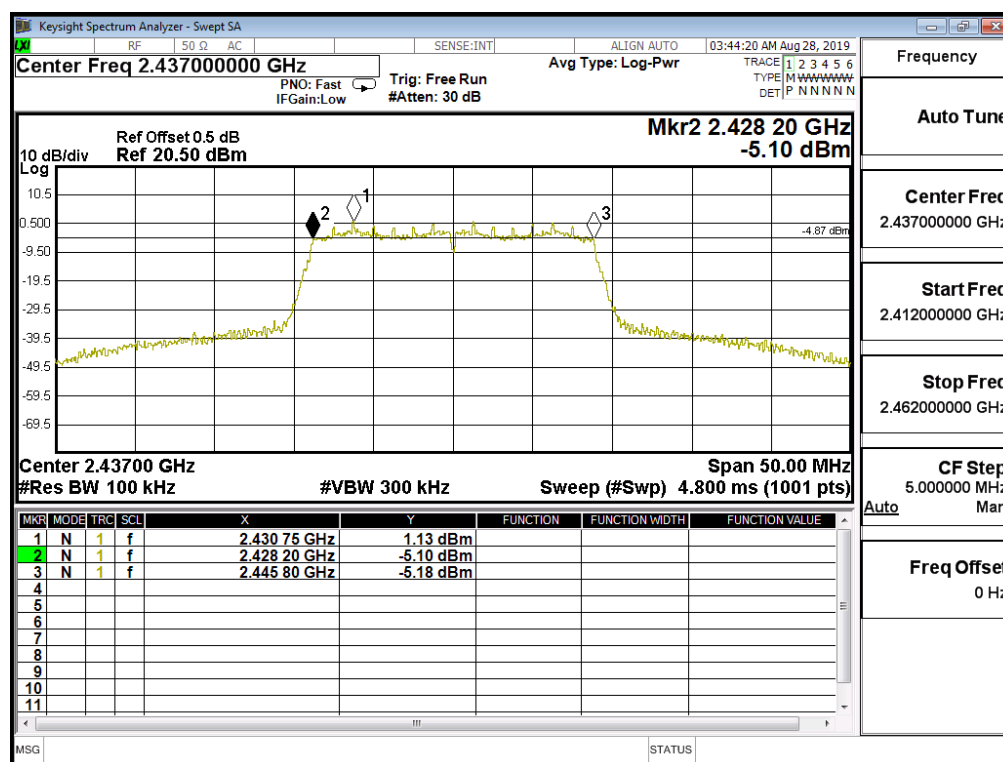
測試距離：Conducted

環境溫度：20 °C

環境濕度：52 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	17600	>500	Pass

Figure Channel 6:



待測物名稱: DIGITAL CAMERA

待測物型號: R03030

測試頻道: CH 11 (2462MHz)

6 dB 頻寬: 100kHz

量測天線: --

檢測器: 峰值

測試日期: 108年09月04日

測試項目: 佔用頻帶寬度

測試模式: Mode 1: 發射器 802.11n (20MHz)

視頻頻寬: 300kHz

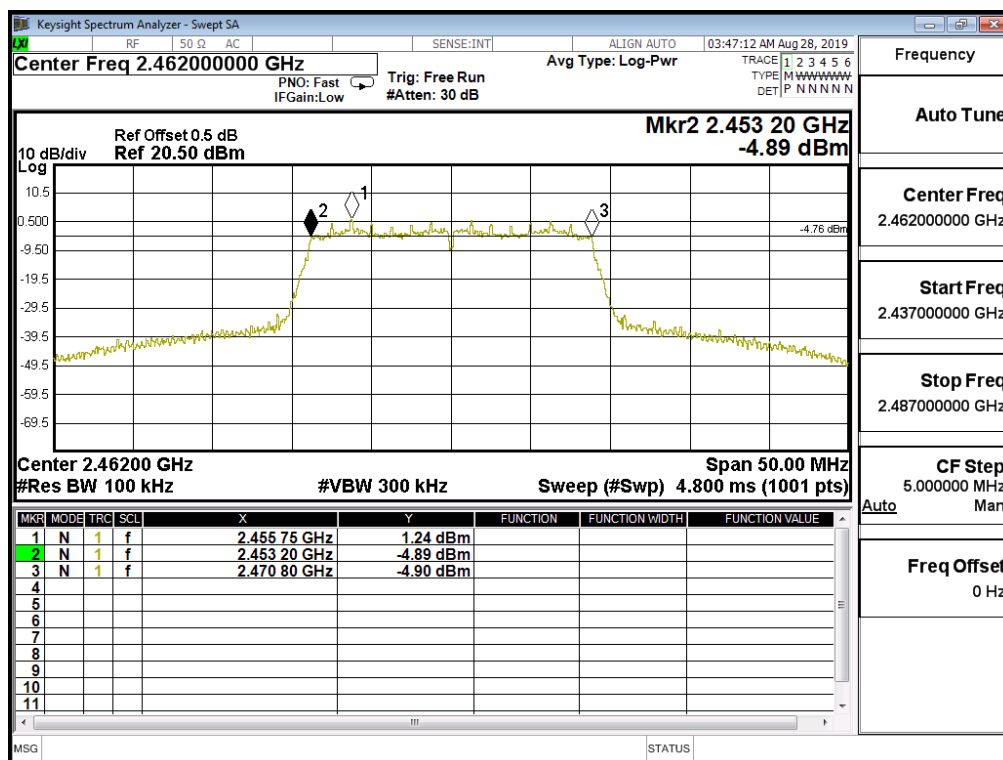
測試距離: Conducted

環境溫度: 20 °C

環境濕度: 52 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	17600	>500	Pass

Figure Channel 11:



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

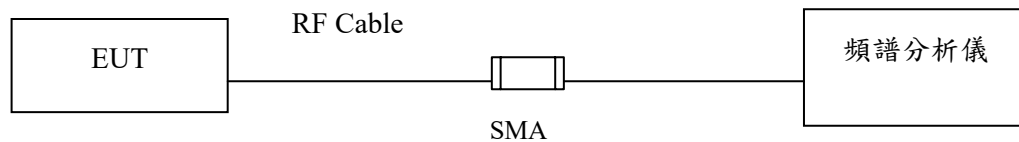
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6 節，在使用頻率範圍之任意 3 千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm，且應依 3.10.1.3 之方式降低功率頻譜密度限制值。

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 100kHz。(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 $\pm 1.20\text{dB}$ 。

10.5. 功率密度量測結果

待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年09月04日

測試項目：功率密度

測試模式：Mode 1: 發射器 802.11b

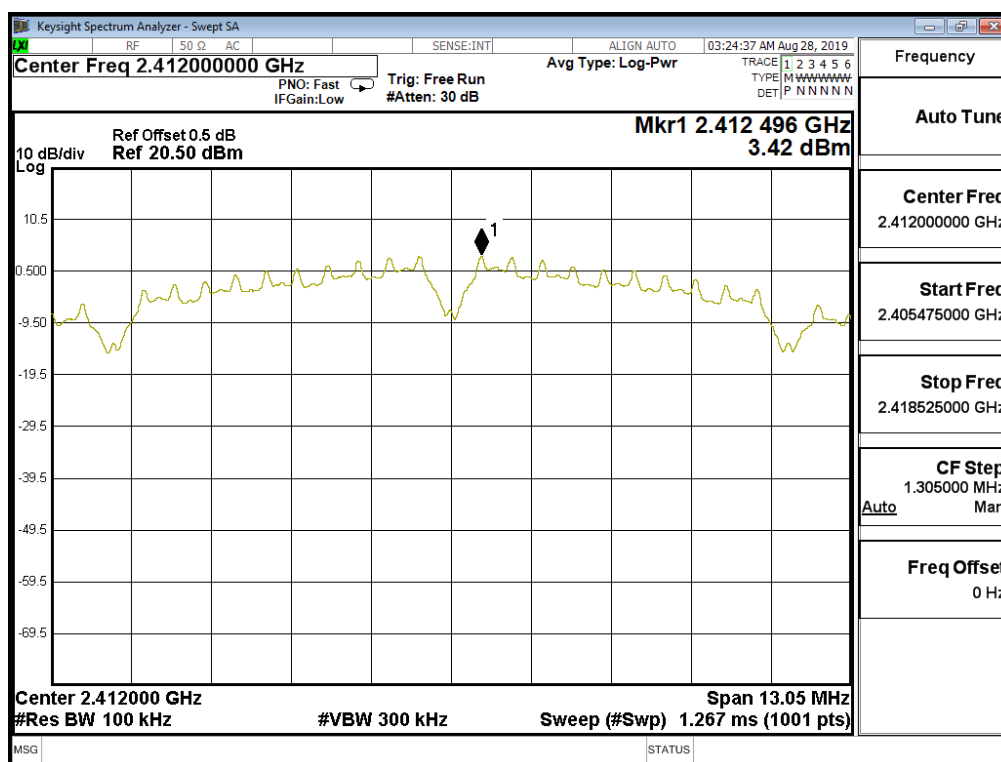
視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.000	3.420	< 8dBm	Pass



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年09月04日

測試項目：功率密度

測試模式：Mode 1: 發射器 802.11b

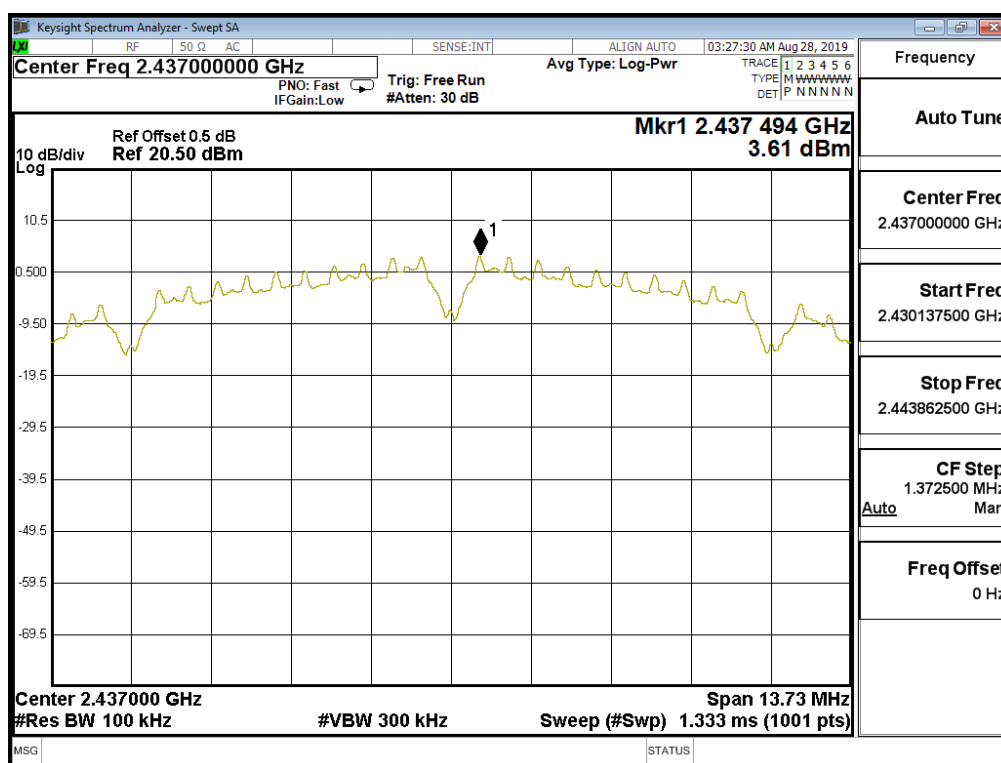
視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
6	2437.000	3.610	< 8dBm	Pass



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年09月04日

測試項目：功率密度

測試模式：Mode 1: 發射器 802.11b

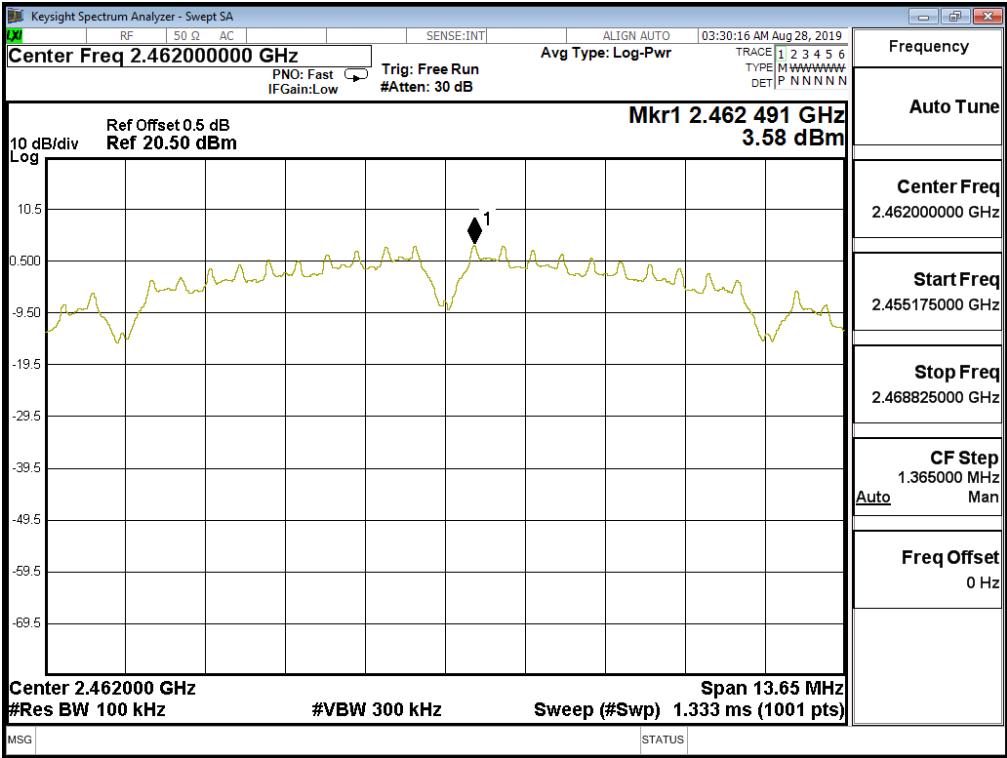
視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
11	2462.000	3.580	< 8dBm	Pass



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年09月04日

測試項目：功率密度

測試模式：Mode 1: 發射器 802.11g

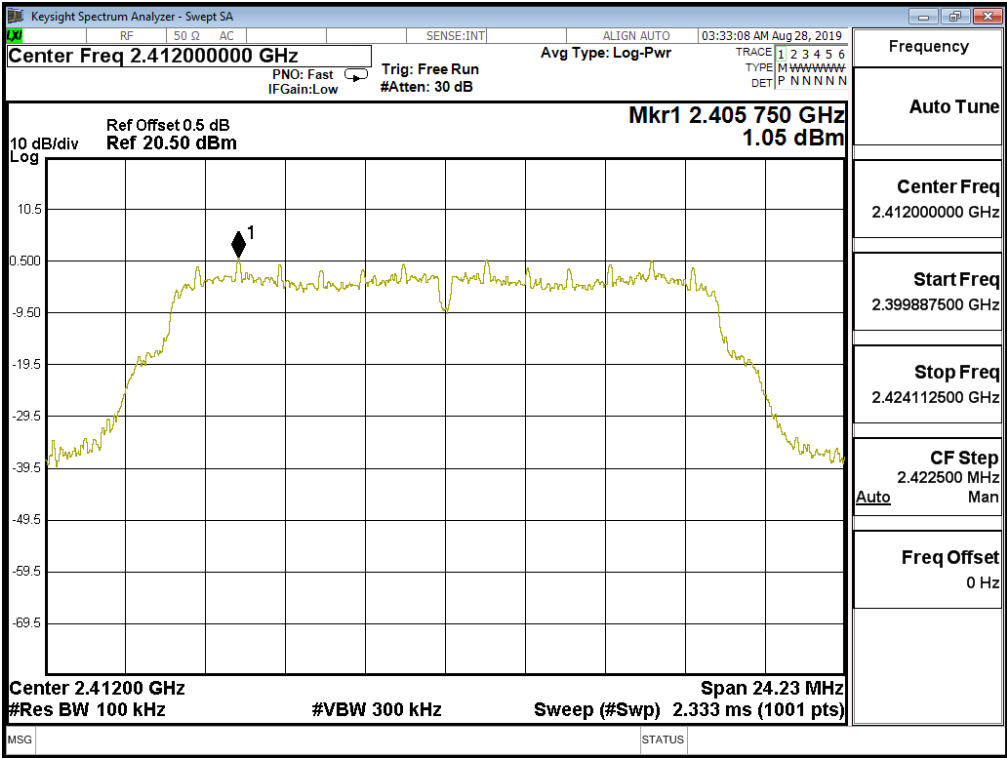
視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.000	1.050	< 8dBm	Pass



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年09月04日

測試項目：功率密度

測試模式：Mode 1: 發射器 802.11g

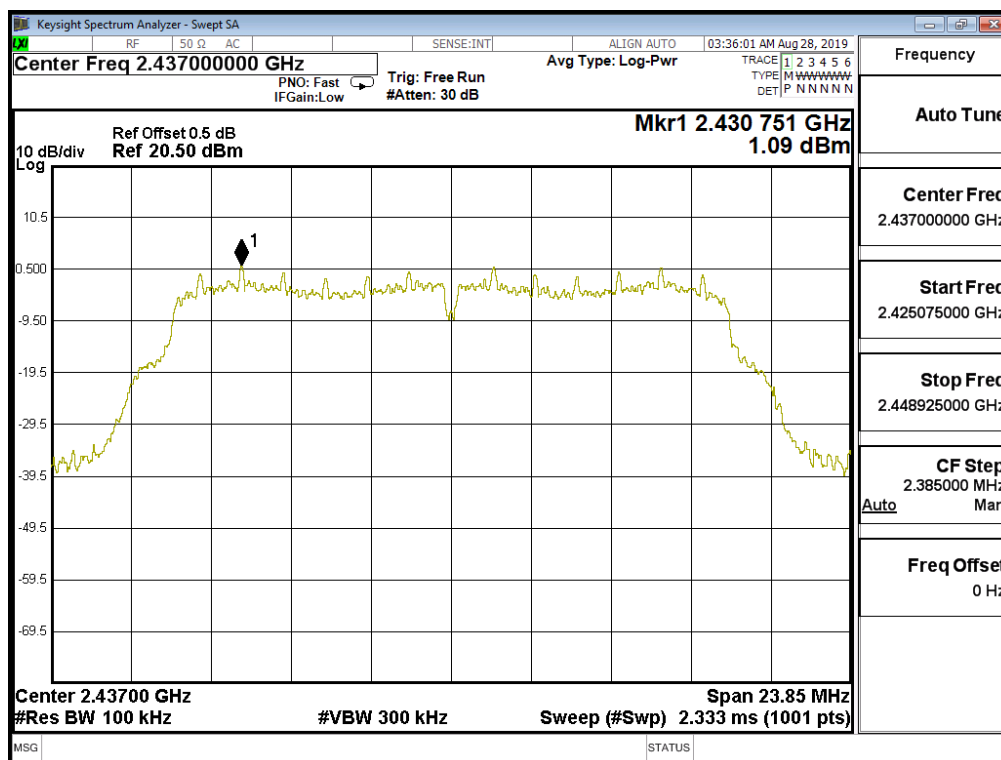
視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
6	2437.000	1.090	< 8dBm	Pass



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年09月04日

測試項目：功率密度

測試模式：Mode 1: 發射器 802.11g

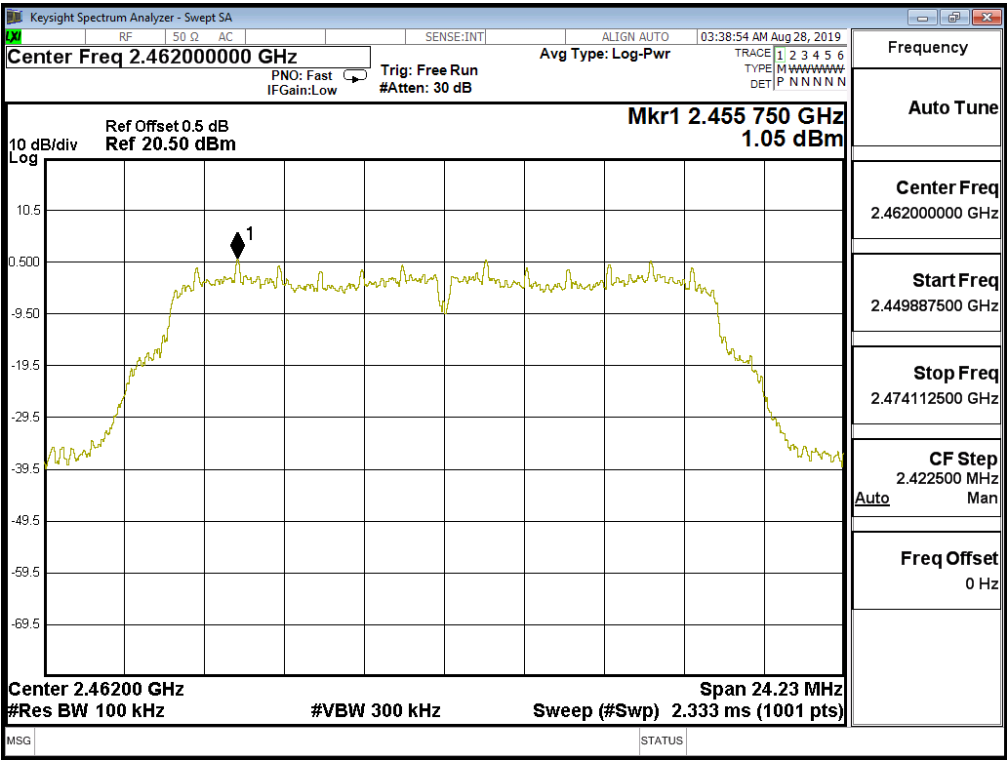
視頻頻寬：300kHz

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
11	2462.000	1.050	< 8dBm	Pass



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 01 (2412MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108 年 09 月 04 日

測試項目：功率密度

測試模式：Mode 1: 發射器 802.11n (20MHz)

視頻頻寬：300kHz

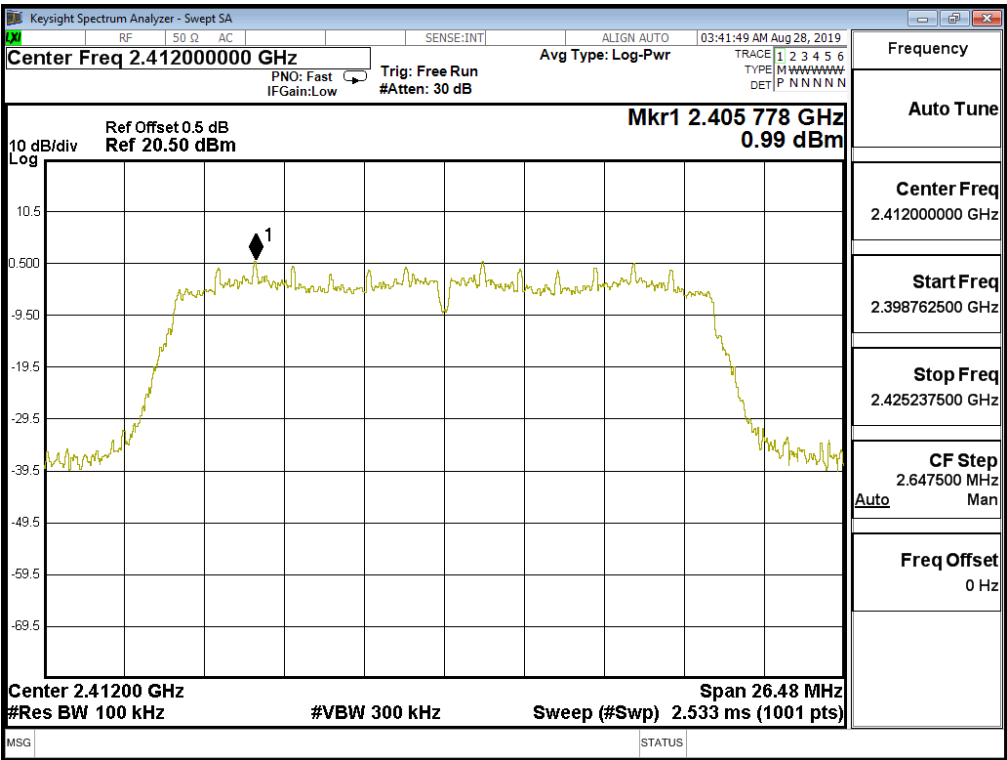
測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.000	0.990	< 8dBm	Pass

Figure Channel 1:



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 06 (2437MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年09月04日

測試項目：功率密度

測試模式：Mode 1: 發射器 802.11n (20MHz)

視頻頻寬：300kHz

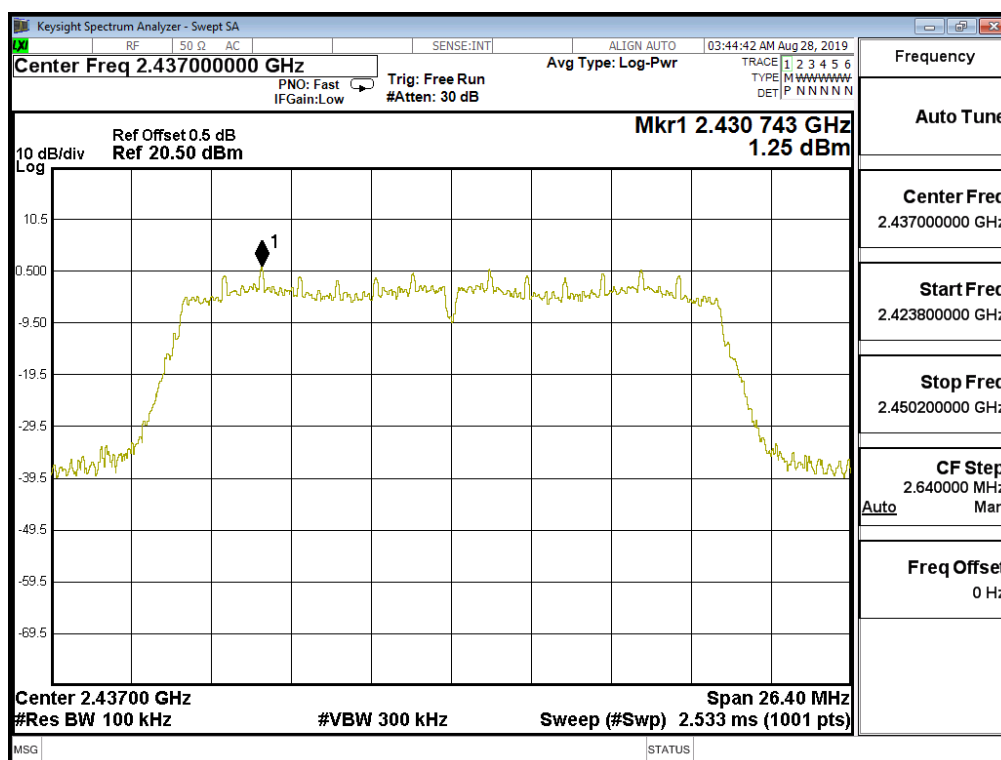
測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
6	2437.000	1.250	< 8dBm	Pass

Figure Channel 6:



待測物名稱：DIGITAL CAMERA

待測物型號：R03030

測試頻道：CH 11 (2462MHz)

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108年09月04日

測試項目：功率密度

測試模式：Mode 1: 發射器 802.11n (20MHz)

視頻頻寬：300kHz

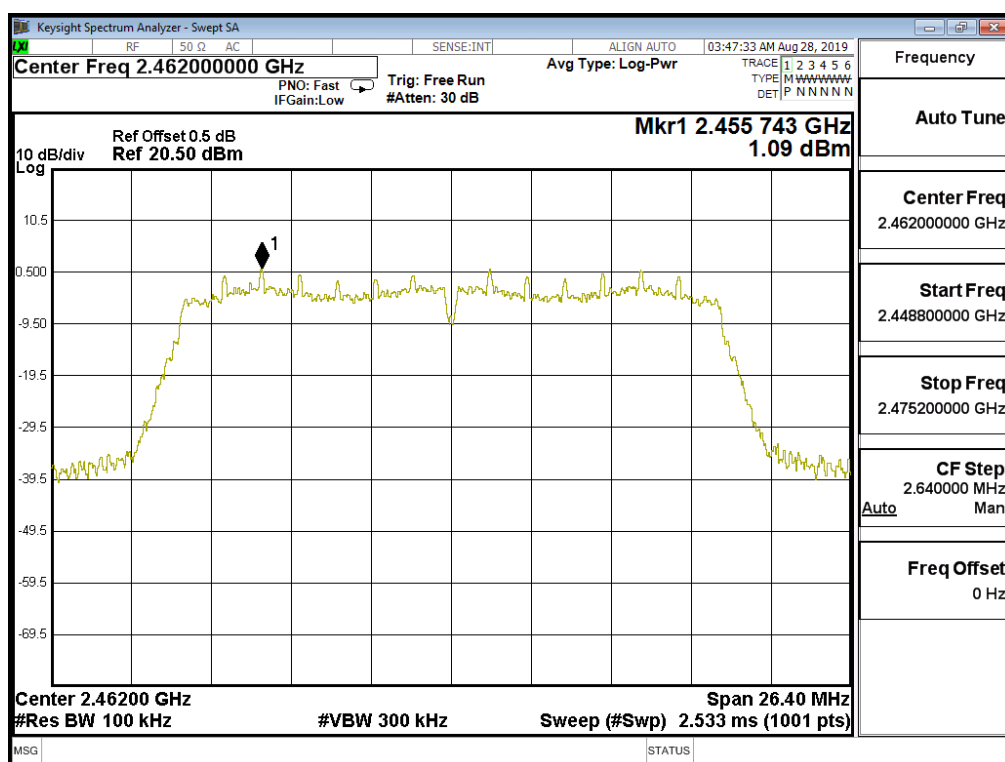
測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
11	2462.000	1.090	< 8dBm	Pass

Figure Channel 11:

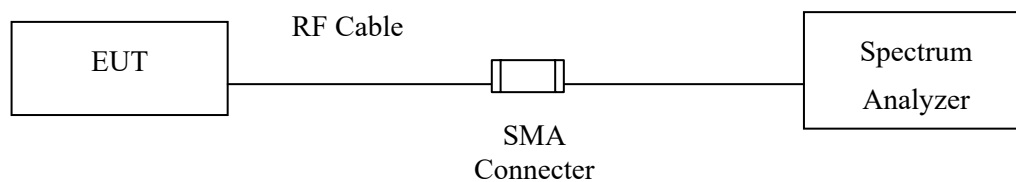


11. Duty Cycle

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：DIGITAL CAMERA

待測物型號：R03030

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：108年09月04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:

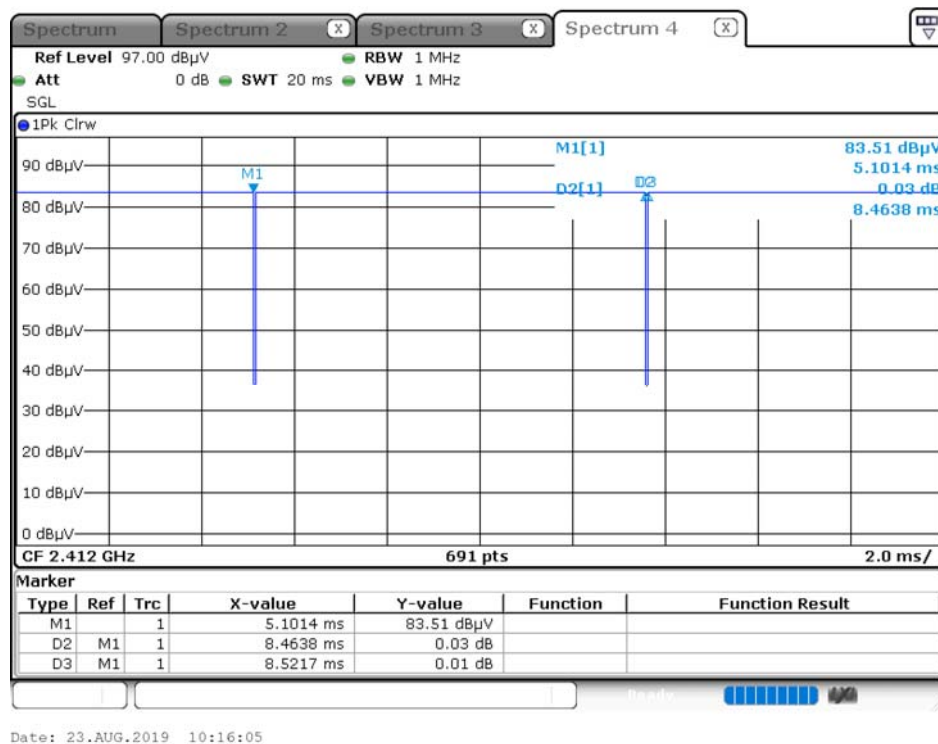
Duty Cycle = Ton / (Ton + Toff)

Duty Factor = 10 Log (1/Duty Cycle)

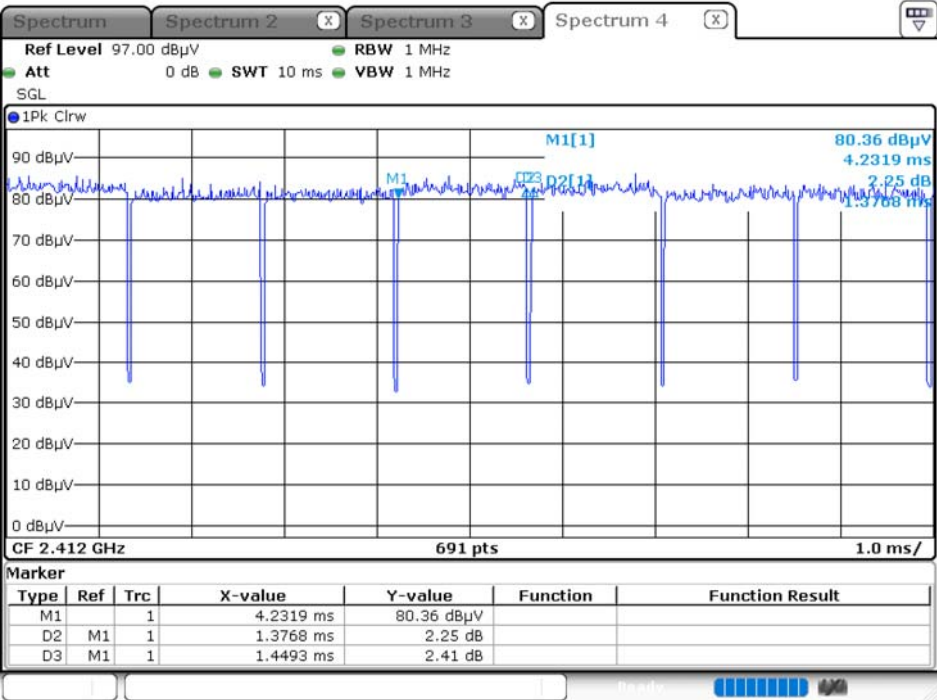
Results:

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	8.4638	8.5217	99.32	0.030
802.11g	1.3768	1.4493	94.98	0.224
802.11n20	1.9275	1.9855	97.08	0.129

802.11b

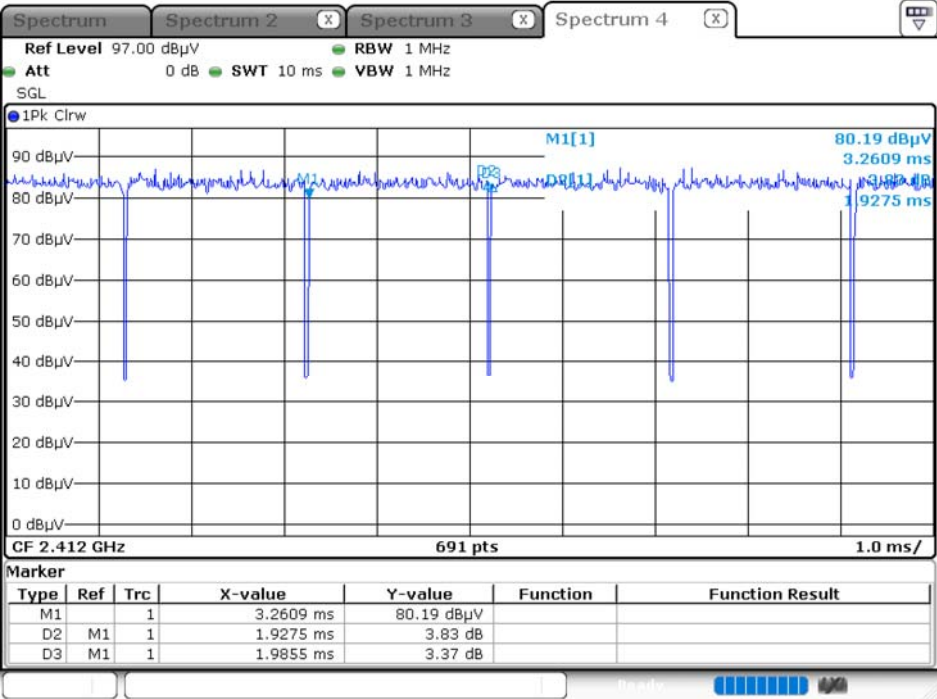


802.11g



Date: 23.AUG.2019 10:41:15

802.11n20



Date: 23.AUG.2019 11:11:31