

低功率射頻電機技術規範測試報告

報告編號	RT190430E07A R1
申請者	網件有限公司
產品名稱	數位畫框
型號	MC327
系列型號	MC327BL, MC327WL, MC327HW, MC327LW
製造廠商	Netgear, Inc.
商標或廠牌	NETGEAR
該產品樣品試驗 依據之試驗標準	國家通訊傳播委員會低功率射頻電機技術規範 107 年 1 月 10 日修訂
試驗結果	合格

香港商立德國際商品試驗有限公司桃園分公司 林口實驗室

日期 108 年 7 月 17 日

報告簽署人簽章:



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報告發行紀錄

Issue No.	Description	Date Issued
RT190430E07A	Original release.	108 年 6 月 20 日
RT190430E07A R1	Addition of Model No. MC327.	108 年 7 月 17 日

證 明 書

發行日期：108 年 7 月 17 日

產 品 名 稱：數位畫框
商 標：NETGEAR
型 號：MC327
系 列 型 號：MC327BL, MC327WL, MC327HW, MC327LW
申 請 者：網件有限公司
量 測 規 範：低功率射頻電機技術規範 LP0002
ANSI C63.10-2013

香港商立德國際商品試驗有限公司桃園分公司在此證明上述待測設備樣品一組(型號：MC327)，收件日期 108 年 4 月 30 日，於 108 年 5 月 10 日至 6 月 18 日，已在本公司的標準測試場地完成量測。報告中所描述之測試結果和待測設備的架構組合，均根據樣品實際的量測情況作詳實的記錄。

立德桃園分公司依“低功率射頻電機技術規範”、“低功率電波輻射性電機管理辦法”及“電信管制射頻器材審驗辦法”製作測試結果報告。

特 此 證 明 ！

報告製作者：



張嘉宴 / 高級專員

， 日 期： 108 年 7 月 17 日

審 核 者：



賴正軒 / 技術副理

， 日 期： 108 年 7 月 17 日

香港商立德國際商品試驗有限公司桃園分公司

實驗室地址：新北市林口區嘉寶里 14 鄰 47-2 號

此份報告不得摘錄複製，除全份複製外，需經實驗室書面同意。



1 低功率射頻電機量測記錄表

申請廠商：網件有限公司

製造廠商：Netgear, Inc.

申請廠商地址：台北市內湖區基湖路3巷9號3樓

廠牌：NETGEAR

產品名稱：數位畫框

型號：MC327

系列型號：MC327BL, MC327WL, MC327HW, MC327LW

量測單位名稱：香港商立德國際商品試驗有限公司桃園分公司

1. 林口實驗室
2. 新竹實驗室

量測單位地址：1. 新北市林口區嘉寶里14鄰47-2號
2. 300 新竹市科學工業園區力行一路1號E-2

量測單位認可編號：1. TAF 2021 (9kHz~40GHz)
2. TAF 2022

量測規範：低功率射頻電機技術規範 LP0002
ANSI C63.10-2013
KDB 558074
KDB 789033

WLAN 2.4GHz 頻段概要

項次	量測項目	規 範	量測結果判定
1	帶外發射 (TAF 2021)	低功率射頻電機技術規範 3.10.1.5 節	合格
2	電源線傳導干擾 (TAF 2022)	低功率射頻電機技術規範 2.3 節	合格
4	6 dB 頻寬 (TAF 2021)	低功率射頻電機技術規範 3.10.1.6 節	合格
5	峰值傳導輸出功率 (TAF 2021)	低功率射頻電機技術規範 3.10.1.2 節	合格
6	功率頻譜密度 (TAF 2021)	低功率射頻電機技術規範 3.10.1.6 節	合格

WLAN 5.150~5.250GHz頻段概要

項次	量測項目	規 範	量測結果判定
1	電源線傳導干擾 (TAF 2022)	低功率射頻電機技術規範2.3節	合格
2	帶外發射 (TAF 2021)	低功率射頻電機技術規範4.7.4節	合格
3	最大傳導輸出功率 (TAF 2021)	低功率射頻電機技術規範4.7.3.1節	合格
4	最大功率頻譜密度 (TAF 2021)	低功率射頻電機技術規範4.7.3.1節	合格

WLAN 5.725~5.850GHz 频段概要

項次	量測項目	規 範	量測結果判定
1	電源線傳導干擾 (TAF 2022)	低功率射頻電機技術規範2.3節	合格
2	帶外發射 (TAF 2021)	低功率射頻電機技術規範4.7.4節	合格
3	最大傳導輸出功率 (TAF 2021)	低功率射頻電機技術規範4.7.3.3節	合格
4	最大功率頻譜密度 (TAF 2021)	低功率射頻電機技術規範4.7.3.3節	合格
5	6dB 頻寬 (TAF 2021)	低功率射頻電機技術規範4.7.5節	合格

最大暴露允許值(Maximum Permissible Exposure, MPE)

項次	量測項目	規 範	量測結果判定
1	電波暴露量 (TAF 2021)	低功率射頻電機技術規範第 5.20.2 節	合格

備註：量測結果之判定不考慮量測不確定度的貢獻

2 一般敘述

2.1 待測設備

產品名稱：	數位畫框	
型號：	MC327	
系列型號：	MC327BL, MC327WL, MC327HW, MC327LW	
型號差異：	見註	
額定電源：	12Vdc (adapter)	
調變方式：	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode	
調變技術：	DSSS, OFDM	
傳輸速率：	802.11a: up to 54Mbps 802.11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 150Mbps 802.11ac: up to 433.3Mbps	
載波頻率：	2.4GHz	2412 ~ 2462MHz
	5.0GHz	5180 ~ 5240MHz, 5745 ~ 5825MHz
頻道數：	2.4GHz	802.11b, 802.11g, 802.11n (20MHz): 11 802.11n (40MHz): 7
	5.0GHz	5180 ~ 5240MHz 802.11a, 802.11n (20MHz), 802.11ac (20MHz): 4 802.11n (40MHz), 802.11ac (40MHz): 2 802.11ac (VHT80): 1 5745 ~ 5825MHz: 802.11a, 802.11n (20MHz), 802.11ac (20MHz): 5 802.11n (40MHz), 802.11ac (40MHz): 2 802.11ac (80MHz): 1
發射功率(電場強度)：	2.4GHz	25.67dBm
	5.0GHz	5180 ~ 5240MHz: 23.82dBm 5745 ~ 5825MHz: 23.62dBm
天線種類：	見註	
電源線類別：	見註	
信號線類別：	N/A	
配件：	Adapter	

註 1: 此待測設備搭配測試的天線，其資料如下：

Frequency Band (MHz)	天線型式	商標	型號	增益(dBi)	接頭型式
2412-2462	Dipole	NA	NA	2.7	I-PEX
5180-5240	Dipole	NA	NA	3.77	I-PEX
5745-5825	Dipole	NA	NA	3.81	I-PEX

註 2: 此待測設備共有下列銷售型號，其電路設計完全相同，差異僅為銷售區分，詳列如下：

廠牌	型號	系列型號	外觀顏色差異
NETGEAR	MC327	MC327BL	BL for black
		MC327WL	WL for white
		MC327HW	HW for hardwood color or walnut
		MC327LW	LW for light wood color or birch

檢測時，僅以型號: **MC327** 為代表測試型號，並記錄其量測結果於此份報告中。

註 3: 此待測物之技術的種類為1Tx / 1Rx之組合。

Modulation Mode	Tx Function	
	2.4GHz	5.0GHz
802.11b	1TX	-
802.11g	1TX	-
802.11n (20MHz)	1TX	-
802.11n (40MHz)	1TX	-
802.11a	-	1TX
802.11n (20MHz)	-	1TX
802.11n (40MHz)	-	1TX
802.11ac (20MHz)	-	1TX
802.11ac (40MHz)	-	1TX
802.11ac (80MHz)	-	1TX

註 4: 此待測設備搭配使用之電源供應器規格如下：

Adapter	1	2
Brand	NETGEAR	NETGEAR
Model	AD2067M20	AD2067F10
Input Power	100-240Vac, 1.0A, 50/60Hz	100-240Vac, 1.0A, 50/60Hz
Output Power	12Vdc, 2.5A	12Vdc, 2.5A
Power Line	Non-shielded DC cable (2.4m)	Non-shielded DC cable (2.4m)

經預測試評估, Adapter 1 具有較干擾雜訊，因此僅以此電源供應器進行最終量測。

註 5: 此報告中，場強輻射量經過評估後以下列測試模式進行最終量測。

量測項目	發射	接收
2412 ~ 2462MHz		
1GHz 以上量測	802.11b: Ch 1, 6, 11 802.11g: Ch 1, 6, 11 802.11n (20MHz): Ch 1, 6, 11 802.11n (40MHz): Ch 3, 6, 9	802.11g: Ch 6
其它不必要之訊號	802.11g: Ch 6	
傳導干擾電壓量測	802.11g: Ch 6	
5180 ~ 5240MHz & 5745 ~ 5825MHz		
1GHz 以上量測	802.11a: Ch 36, 40, 48, 149, 157, 165 802.11ac (20MHz): Ch 36, 40, 48, 149, 157, 165 802.11ac (40MHz): Ch 38, 46, 151, 159 802.11ac (80MHz): Ch 42, 155	802.11a: Ch 149
其它不必要之訊號	802.11a: Ch 149	
傳導干擾電壓量測	802.11a: Ch 149	

註 6: 此報告中傳輸模式，場強輻射量測及電源線傳導干擾量測之外的測試項目，以DSSS調變技術和OFDM調變技術分別進行測試並記錄最終量測結果於報告中。

註 7: 此待測設備，經評估經評估三個正交軸方位評估測試擺設方式：平躺、垂直、側放，其中以垂直擺放擁有最大干擾值，故以此擺放方式進行最終量測，並將測試結果紀錄。

註 8: Duty cycle of test signal.

2.4GHz頻段

If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

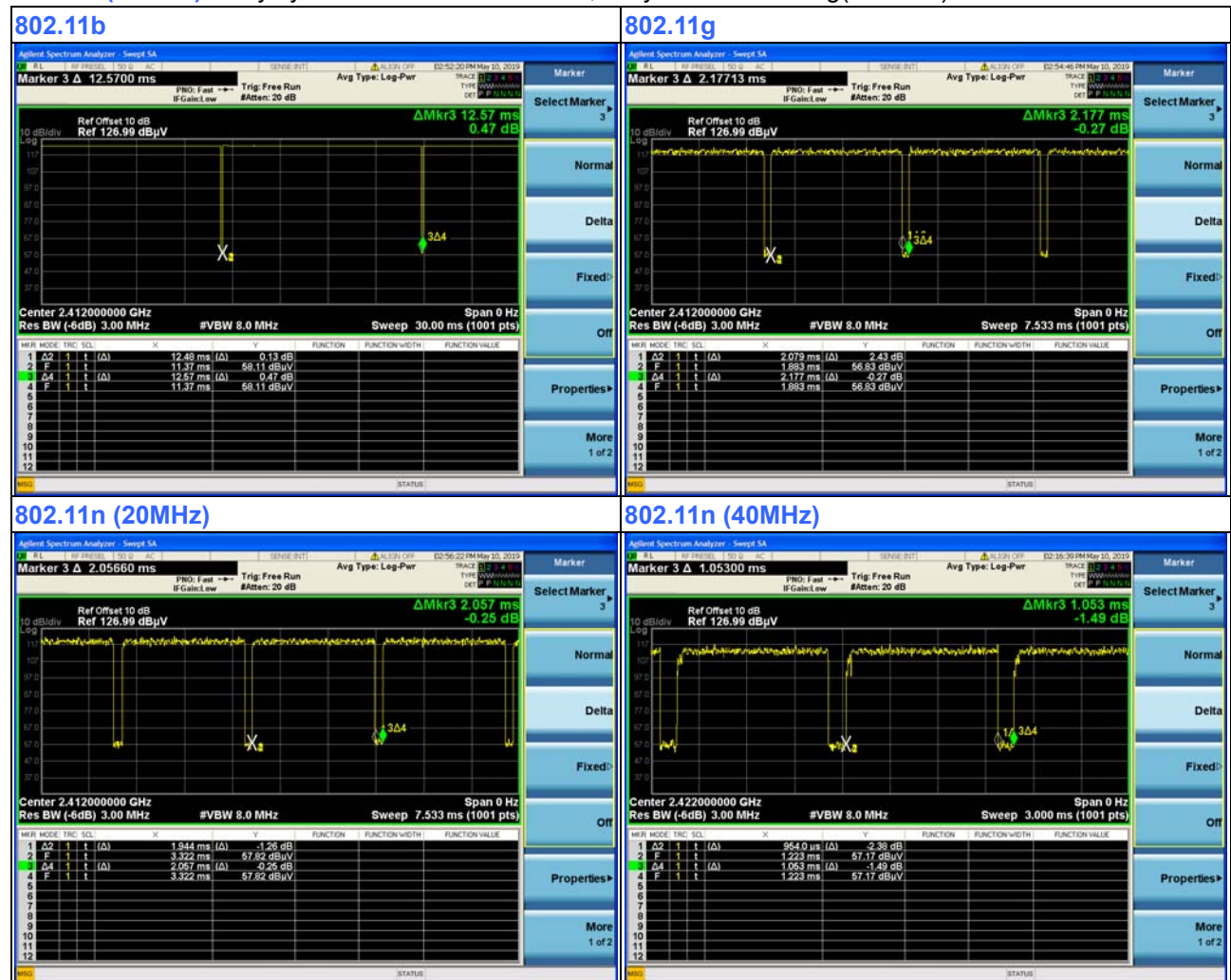
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11b: Duty cycle = $12.48/12.57 = 0.993$.

802.11g: Duty cycle = $2.079/2.177 = 0.955$, Duty factor = $10 * \log(1/0.955) = 0.20$

802.11n (20MHz): Duty cycle = $1.944/2.057 = 0.945$, Duty factor = $10 * \log(1/0.945) = 0.25$

802.11n (40MHz): Duty cycle = $0.954/1.053 = 0.906$, Duty factor = $10 * \log(1/0.906) = 0.43$



5GHz 频段

Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = $2.065/2.180 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.24$

802.11ac (20MHz): Duty cycle = $1.913/2.028 = 0.943$, Duty factor = $10 * \log(1/0.943) = 0.25$

802.11ac (40MHz): Duty cycle = $0.940/1.047 = 0.898$, Duty factor = $10 * \log(1/0.898) = 0.47$

802.11ac (80MHz): Duty cycle = $0.472/0.562 = 0.840$, Duty factor = $10 * \log(1/0.840) = 0.76$



此裝置各頻道的中心頻率如下：

2.4 GHz 頻段：

802.11b, 802.11g, 802.11n (20MHz):

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437		

802.11n (40MHz):

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
03	2422	07	2442
04	2427	08	2447
05	2432	09	2452
06	2437		

5GHz 頻段:

802.11a, 802.11n (20MHz), 802.11ac (20MHz):

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
		165	5825

802.11n (40MHz), 802.11ac (40MHz):

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
38	5190	151	5755
46	5230	159	5795

802.11ac (80MHz):

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
42	5210	155	5775

詳細之規格請參考使用說明書，產品的照片請參照 BV 報告編號:190430E07。

2.2 輔助測試之週邊設備描述

待測設備於受測時均接上其所屬的配件或一般用途之相關設備；下列輔助設備或配件測試中所使用的配備，以形成一個代表待測物實際運作的受測系統。

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook PC	DELL	E5410	BW33YM1	N/A	Provided by Lab

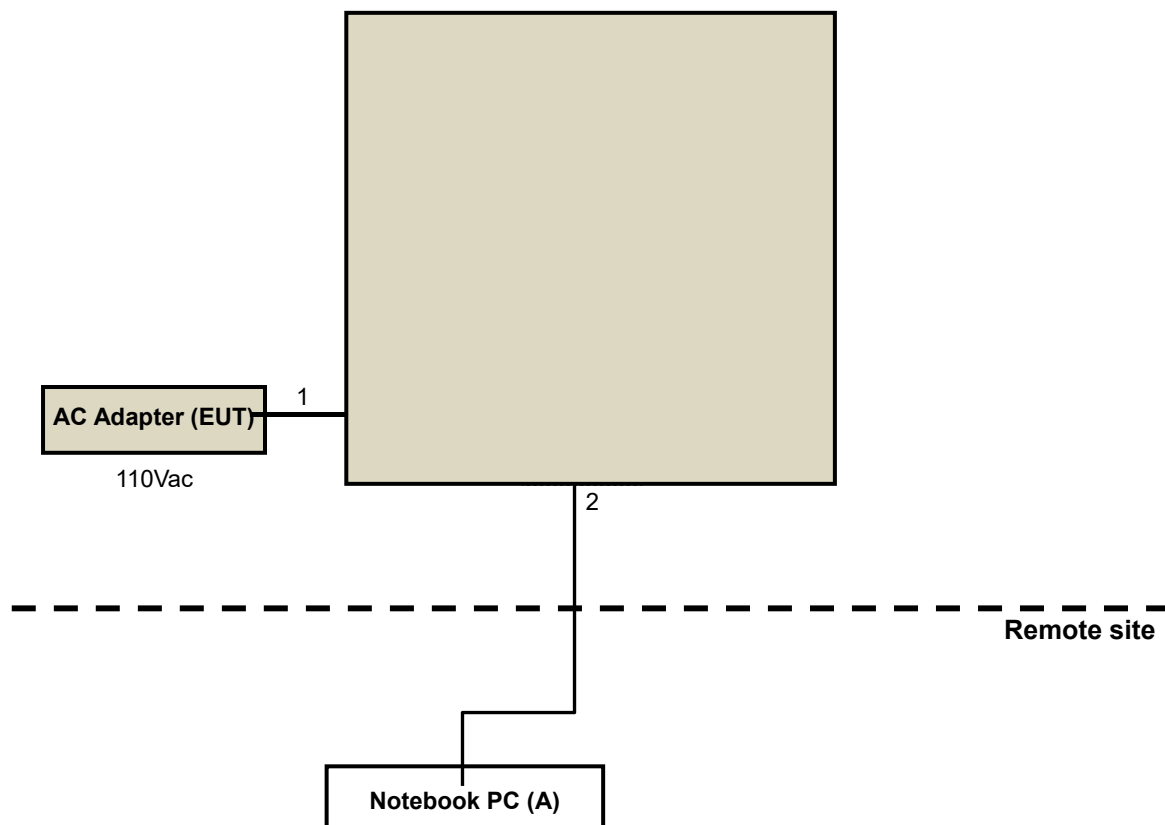
Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as communication partners to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC cable	1	2.4	N	0	Supplied by client
2.	LAN cable	1	10	N	0	Provided by Lab

Note: The core(s) is(are) originally attached to the cable(s).

2.3 測試架構圖



3 適用規範

3.1 規範要求

(1) 傳導之規定

依據國家通訊傳播委員會低功率射頻電機技術規範之 2.3 節，電源傳導干擾之限制要求如下：

頻率(MHz)	傳導限制值 (dBuV)	
	準峰值(Quasi-peak)	平均值(Average)
0.15-0.5	66-56(註)	56-46(註)
0.5-5	56	46
5-30	60	50

(註)：隨頻率之對數遞減。

(2) 帶外發射之規定

(I) 操作於 2.4000~2.4835 GHz band:

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.5 節之要求，操作頻帶範圍外之任意 100 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 kHz 內的射頻功率，其衰減值限制如下：(1) 輸出功率以附件二之峰值輸出功率方式測量者，至少須衰減 20 dB，可使用射頻傳導或輻射方式測量。(2) 輸出功率以 3.10.1.2(1)(C)之最大傳導輸出功率測量方式者，至少須衰減 30 dB。

(II) 操作於 5.15 GHz~5.35 GHz 及 5.470 GHz ~5.725 GHz 頻段:

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.4.1 節之要求，帶外發射之有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz。

(III) 操作於 5.725 GHz~5.850 GHz 頻段:

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.4.2 節之要求，所有頻帶邊緣向外 5 MHz 內頻率之發射，有效等向輻射功率(EIRP) $\leq$ 27 dBm/MHz ~ 15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外 5 MHz ~ 25 MHz，有效等向輻射功率 35(EIRP) $\leq$ 15.6 dBm/MHz ~ 10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外 25 MHz ~ 75 MHz，有效等向輻射功率(EIRP) $\leq$ 10 dBm/MHz ~ -27 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外 $\geq$ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz；有關遮罩限制值詳圖 1。

在 5.725 GHz ~ 5.850 GHz 頻段操作且天線增益大於 10dBi 之設備於 106 年 3 月 2 日前得適用 3.10.1.5 帶外發射限制；在 5.725 GHz ~ 5.850 GHz 頻段操作且天線增益小於等於 10dBi 之設備於 107 年 3 月 2 日前得適用 3.10.1.5 帶外發射限制規定。

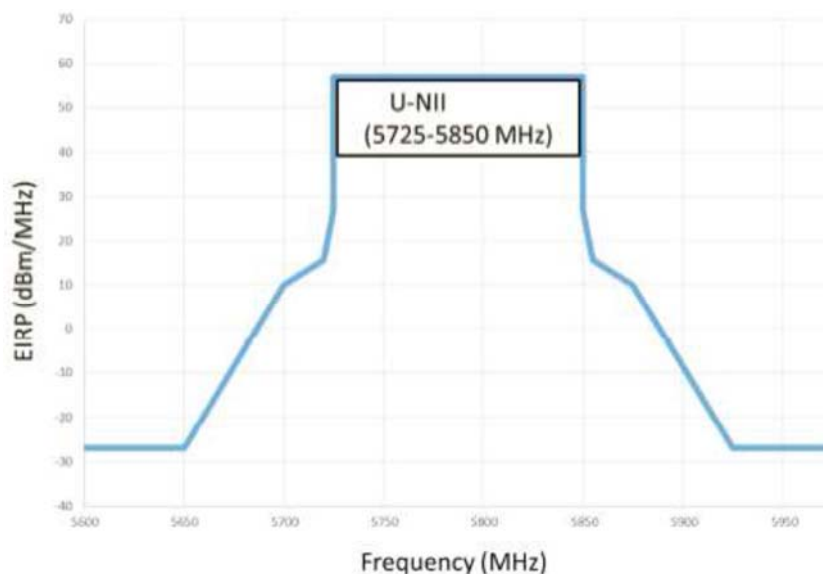


圖 1

在 1 GHz 以下不必要之發射，應符合 2.8 之規定。此外，落於 2.7 禁用頻段之輻射發射，應符合 2.8 之規定。

頻率(MHz)	電場強度(微伏特/公尺, uV/m)	測距(公尺)
0.009 - 0.490(含)	2,400/f(kHz)	300
0.490 (不含) - 1.705 (含)	24,000/f(kHz)	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

(3)天線之規定

天線規格不受第 2.2 節規定之限制。

(4)天線增益之要求

低功率發射機，依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.3 節及 4.7.3 節之規定如下：

(I) 操作於 2400 MHz~2483.5 MHz 頻段：

- (A) 進行固定式點對點操作時，其發射天線之方向性增益超過6 dBi，每超過3 dBi，最大傳導輸出功率限制值應降低1 dB。
- (B) 天線以多向波束發射方式(含同時發射或循序發射)將訊號導向多個接收機或接收機群組時，應符合下列規定：
 - (a) 非同時發射多向波束者，所有載波或頻道傳輸至所有天線陣列或陣列群之總和傳導輸出功率應符合3.10.1.2 之功率限制值。如天線/天線陣列群之方向性增益超過6 dBi，每超過3 dBi，總和傳導輸出功率限制值應降低1 dB。方向性增益值應計算如下：
 - (i) 方向性增益值= $10\log(\text{天線陣列之單元數目}) + \text{各單元中最高之方向性增益值}$ 。
 - (ii) 天線陣列間之遮蔽效應或波束干涉損失能充分佐證時，方向性增益得低於(i)計算數值。
 - (b) 同時發射多向波束於相同或不同頻道者，其每一波束功率應符合(a)之功率限制值。如發射波束有重疊現象，功率應降低，以確保總和傳導輸出功率符合(a)之限制值。同時發射的所有波束總和傳導輸出功率不大於(a) 總和傳導輸出功率限制值加8 dB。方向性增益值計算同(a)。
 - (c) 發射機之天線具備單向波束功能者，應符合(1)(A)及(3)後段之規定。

除(A)及(B)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率限制值。

(II) 操作於 5.15 GHz~5.25 GHz 頻段：

- (A) 供戶外操作使用：使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。
- (B) 供室內操作使用：使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (C) 供固定式點對點操作使用：使用超過23 dBi方向增益之指向性天線時，應依超過23 dBi天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。
- (D) 供用戶端裝置(Client Device)操作使用：使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(III) 操作於 5.25 GHz~5.35 GHz 與 5.470 GHz ~5.725 GHz 頻段：

使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(IV) 操作於 5.725 GHz~5.850 GHz 頻段：

- (A) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功

率限制值。

(B) 除(A)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(5) 6dB 頻寬之要求

(I) 操作於 2400 MHz~2483.5 MHz 頻段：

對使用數位調變技術(digital modulation techniques)系統之低功率發射機，依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.6 節之規定，6dB 頻寬至少應有 500kHz。

(II) 操作於 5.725 GHz~5.850 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.5 節之規定，其 6dB 頻寬至少應有 500kHz。

(6) 傳導輸出功率之要求

(I) 操作於 2.4000~2.4835 GHz band:

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.2 節之規定：

數位調變技術系統：1 W(含)以下。

(II) 操作於 5.15 GHz~5.25 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.3.1 節之要求：

(A) 供戶外操作使用/供室內操作使用/供固定式點對點操作使用：最大傳導輸出功率應小於或等於1 W。

(B) 供用戶端裝置(Client Device)操作使用：最大傳導輸出功率應小於或等於250 mW。

(III) 操作於 5.25 GHz~5.35 GHz 及 5.470 GHz ~5.725 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.2節之規定，最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B是26 dB發射頻寬，單位MHz)之較小者。

(IV) 操作於 5.725 GHz~5.850 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.3.3 節之規定，最大傳導輸出功率應小於或等於 1 W。

(7) 功率頻譜密度之要求

(I) 操作於 2.4000~2.4835 GHz band:

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.6 節之規定，在使用頻率範圍之任一 3 kHz 頻寬內，由發射機傳導至天線之功率頻譜密度在任意傳輸期間內，皆小於或等於 8 毫分貝(dBm)，且應依 3.10.1.3 之方式降低功率頻譜密度限制值。

(II) 操作於 5.15 GHz~5.25 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.3.1 節之要求：

(A) 供戶外操作使用/供室內操作使用/供固定式點對點操作使用：在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。

(B) 供用戶端裝置(Client Device)操作使用：在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。

(III) 操作於 5.25 GHz~5.35 GHz 及 5.470 GHz ~5.725 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.2節之規定，最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。

(IV) 操作於5.725 GHz~5.850 GHz頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.3.3 節之規定，在任何 500 kHz 頻帶中最大功率頻譜密度應小於或等於 30 dBm。

(8) 發射功率控制(TPC)及動態頻率選擇(DFS)之要求

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.7.1及4.7.7.2節之規定。

發射功率控制(TPC)：操作於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段的設備，應具備發射功率控制功能。設備必須至少具有6 dB低於平均EIRP 30 dBm的能力。EIRP 低於500 mW 之系統不須具備TPC 功能。

動態頻率選擇(DFS)：操作於5.25 GHz~5.35 GHz與5.470 GHz~5.725 GHz頻段之設備應具備動態頻率選擇雷達偵測功能並啟動之，以完整偵測使用頻帶內之雷達訊號，避免與雷達系統同頻道操作。相關規定如下：

(1) 最低動態頻率選擇的偵測門檻

- (A) 最大EIRP 為200 mW~1 W之設備，其最低動態頻率選擇的偵測門檻值為-64dBm。
- (B) 最大EIRP 低於200 mW，且功率頻譜密度小於10 dBm/MHz 之設備，其最低動態頻率選擇的偵測門檻值為-62 dBm。
- (C) 最大EIRP 低於200 mW，且功率頻譜密度大於或等於10 dBm/MHz 之設備，其最低動態頻率選擇的偵測門檻值為-64 dBm。
- (D) 此偵測門檻值為1 微秒內之平均接收功率，並以0 dBi 天線為參考基準。頻道初始設定得由系統隨機選取或使用者手動選取。

(2) 操作模式：動態頻率選擇之規定適用於以下之操作模式：

- (A) 頻道可用性檢查時間之規定，適用於主控運作模式。
- (B) 頻道移動時間之規定，適用於主控及受控運作模式。

(3) 頻道可用性檢查時間：設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達訊號時，設備才可開始使用該頻道。

(4) 頻道移動時間：在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在10秒內停止，在偵測到雷達訊號後，該期間內的傳輸應維持最多200 毫秒的正常通訊。另外，間歇性的管理與控制訊號可在剩餘的時間中傳送，以便撤離該操作頻道。

(5) 不可佔用期間：某一頻道已被頻道可用性檢查或"服務中"監視顯示含有雷達系統，至少須有30 分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

(9)無線資訊傳輸設備必須擁有安全功能之要求：

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.7.3節之規定，無線資訊傳輸設備必須擁有安全功能，以保護未經授權之一方更改軟體。製造商應提出符合本節規定之相關證明文件或符合性聲明。

(10) 依據國家通訊傳播委員會低功率射頻電機技術規範4.7.7.4 節之規定，製造商必須在操作於 U-NII 頻段上之數位調變系統中提供安全功能，使第三方團體無法重寫程式，使其操作於非經認證之設定。該軟體必須避免發射機操作於非經認證之頻率、輸出功率、調變形式或其他射頻參數。製造商可使用私有網路，只有經授權的用戶能下載軟體、進行軟體式電子簽章或硬體式的韌體更新，新的軟體可以被合法的載入到設備中，同時又能符合上述事項，並於應用程式中描述設備授權的方法。

(11) 依據國家通訊傳播委員會低功率射頻電機技術規範4.7.7.5 節之規定，製造商必須確保 DFS 功能無法被無線資訊傳輸設備之操作者取消。

(12)電波暴露量之評估

依據國家通訊傳播委員會低功率射頻電機技術規範 5.20.2 節之規定，若受測物於正常操作模式下，其發射機距離人體 20 公分以上者，可測試最大暴露允許值(Maximum Permissible Exposure, MPE)以證明其符合電波暴露量之要求。

限制值如下：

(1) 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3 - 3.0	614	1.63	*100	6
3 - 30	1842/f	4.89/f	*900/f ²	6
30 - 300	61.4	0.163	1.0	6
300 - 1,500	---	---	f/300	6
1,500 - 100,000	---	---	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

(2) 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3 - 3.0	614	1.63	*100	30
3 - 30	1842/f	4.89/f	*180/f ²	30
30 - 300	27.5	0.073	1.0	30
300 - 1,500	---	---	f/1500	30
1,500 - 100,000	---	---	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

3.2 限制使用之頻帶

除本規範另有規定外，任何低功率射頻電機之主波皆不得使用下表所列各頻段之頻率；低功率射頻電機落於下表所列頻段之混附發射，其電場強度必須符合 2.8 之限制規定。

頻率(兆赫)	頻率(兆赫)	頻率(兆赫)
0.090~0.110	240.00~285.00	3332.0~3339.0
0.490~0.510	322.00~335.40	3345.8~3358.0
2.172~2.198	399.90~410.00	3500.0~4400.0
3.013~3.033	485.00~510.00	4500.0~5250.0
4.115~4.198	608.00~614.00	5350.0~5460.0
5.670~5.690	703.00~748.00	7250.0~7750.0
6.200~6.300	758.00~803.00	8025.0~8500.0
8.230~8.400	825.00~915.00	9000.0~9200.0
12.265~12.600	930.00~1240.0	9300.0~9500.0
13.340~13.430	1300.0~1427.0	10600~12700
14.965~15.020	1435.0~1626.5	13250~13400
16.700~16.755	1660.0~1785.0	14470~14500
19.965~20.020	1805.0~1880.0	15350~16200
25.500~25.700	1885.0~1900.0	17700~21400
37.475~38.275	1905.0~1985.0	22010~23120
73.500~75.400	2010.0~2025.0	23600~24000
108.00~138.00	2110.0~2170.0	31200~31800
149.90~150.05	2200.0~2300.0	36430~36500
156.70~156.90	2310.0~2390.0	38600 以上
162.01~167.17	2483.5~2900.0	
167.72~173.20	3260.0~3267.0	

2.4 GHz 頻段測試紀錄結果

4 帶外發射之量測

4.1 適用標準

請見本報告 3.1 節第 2 項(I)的規定。

4.2 量測方法

在電波暗室，將待測物置於 0.8 米高的非金屬桌面，使其操作在工作狀態。接收天線置於 3 米距離。桌面要 360 度旋轉，另外接收天線從離地 1 米至 4 米升降變化，以找出最大的輻射電場強度，接收天線分別置於水平、垂直極化各執行測試一次。

備註：對於 1GHz 以上場強輻射的測試，待測物則置於1.5米高的非金屬桌面

4.3 量測儀器

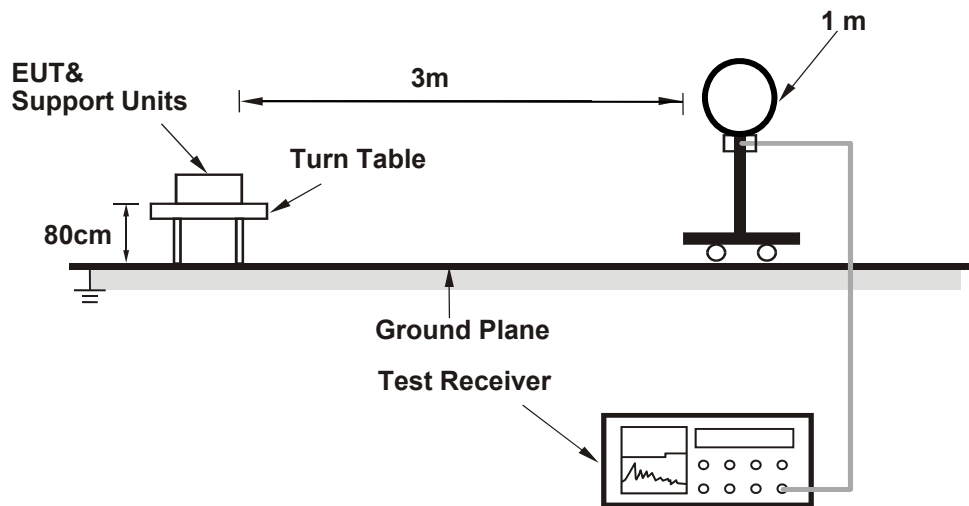
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
HP Preamplifier	8447D	2432A03504	Feb. 20, 2019	Feb. 19, 2020
HP Preamplifier	8449B	3008A01201	Feb. 21, 2019	Feb. 20, 2020
MITEQ Preamplifier	AMF-6F-260400-33-8P	892164	Feb. 20, 2019	Feb. 19, 2020
Agilent TEST RECEIVER	N9038A	MY51210129	Mar. 05, 2019	Mar. 04, 2020
Schwarzbeck Antenna	VULB 9168	139	Nov. 26, 2018	Nov. 25, 2019
Schwarzbeck Horn Antenna	BBHA-9170	212	Nov. 25, 2018	Nov. 24, 2019
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	Nov. 25, 2018	Nov. 24, 2019
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	Radiated_V7.6.15.9.5	NA	NA	NA
SUHNER RF cable With 4dB PAD	SF102	Cable-CH6-01	Aug. 13, 2018	Aug. 12, 2019
SUHNER RF cable With 3/4dB PAD	SF102	Cable-CH8-3.6m	Aug. 13, 2018	Aug. 12, 2019
KEYSIGHT Spectrum Analyzer	N9030A	MY54490260	Aug. 3, 2018	Aug. 2, 2019
Loop Antenna EMC	LPA600	270	Aug. 11, 2017	Aug. 10, 2019
EMCO Horn Antenna	3115	00028257	Nov. 25, 2018	Nov. 24, 2019
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
Temperature & Humidity Chamber	MHU-225AU	920409	May 24, 2018	May 23, 2019
			May 24, 2019	May 23, 2020
DIGITAL POWER METER IDRC	CP-240	240515	Sep. 13, 2018	Sep. 12, 2019
AC Power Source ExTech	CFW-105	E000603	NA	NA

- NOTE:** 1. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in Chamber No. 6.
4. The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

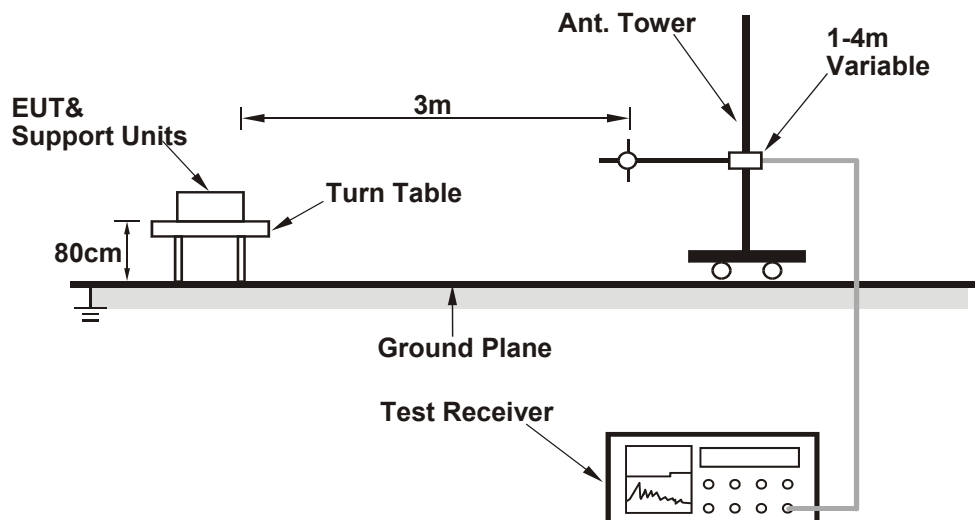
Measurement	Frequency	Uncertainty
Radiated emissions	9kHz ~ 30MHz	±2.38 dB
	30MHz ~ 1GHz	±5.43 dB
	Above 1GHz	±5.42 dB

4.4 測試配置

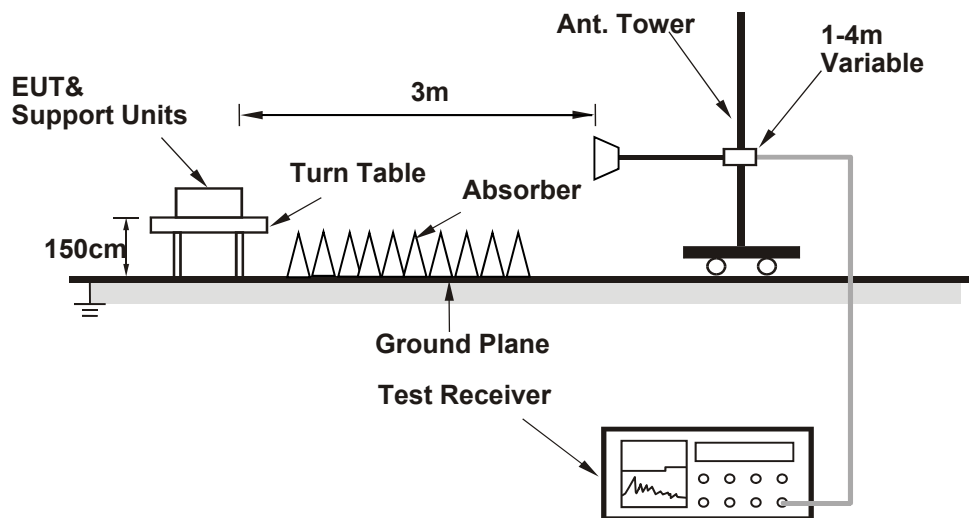
<Frequency Range 9kHz ~ 30MHz>



<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



4.5 場強度之計算

場強之計算公式如下：

結果值 Emission level (dBuV/m) = 機器讀值 Raw Value (dBuV) + 校正因子 Correction Factor (dB/m)

餘裕度 Margin(dB) = 結果值 Emission level (dBuV/m) - 限制值 Limit value (dBuV/m)

量測結果請見下頁。

4.6 量測結果

4.6.1 發射諧波

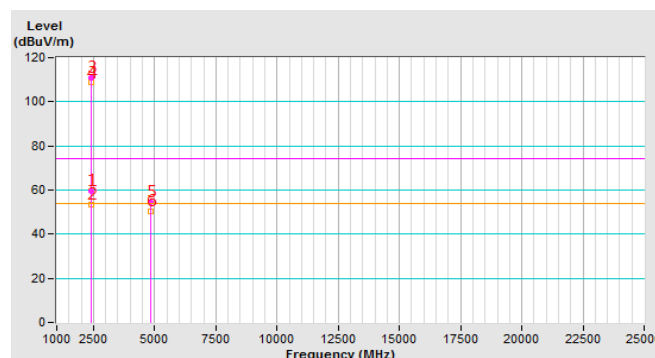
802.11b

操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1 : 2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	72%RH
測試日期：	108 年 6 月 4 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2387.07	59.45 PK	74.00	-14.55	1.34 H	300	59.67	-0.22
2	2387.07	53.27 AV	54.00	-0.73	1.34 H	300	53.49	-0.22
3	*2412.00	110.72 PK			1.34 H	300	110.93	-0.21
4	*2412.00	108.64 AV			1.34 H	300	108.85	-0.21
5	4824.00	54.60 PK	74.00	-19.40	2.33 H	36	48.22	6.38
6	4824.00	50.45 AV	54.00	-3.55	2.33 H	36	44.07	6.38
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

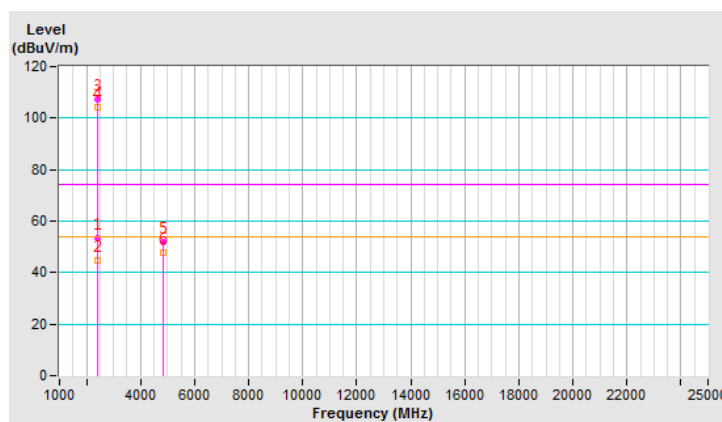


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2386.60	53.47 PK	74.00	-20.53	1.25 V	270	53.69	-0.22
2	2386.60	44.76 AV	54.00	-9.24	1.25 V	270	44.98	-0.22
3	*2412.00	107.52 PK			1.25 V	270	107.73	-0.21
4	*2412.00	104.47 AV			1.25 V	270	104.68	-0.21
5	4824.00	51.74 PK	74.00	-22.26	2.01 V	112	45.36	6.38
6	4824.00	47.65 AV	54.00	-6.35	2.01 V	112	41.27	6.38
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

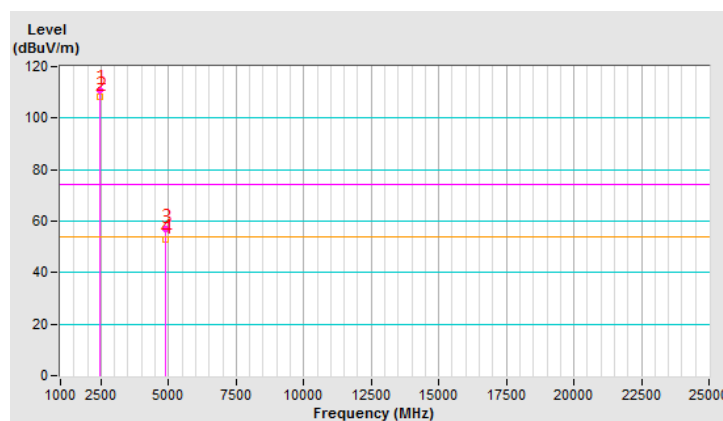


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	72%RH
測試日期：	108 年 6 月 4 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.76 PK			1.05 H	204	110.96	-0.20
2	*2437.00	108.31 AV			1.05 H	204	108.51	-0.20
3	4874.00	56.92 PK	74.00	-17.08	1.97 H	43	50.74	6.18
4	4874.00	53.04 AV	54.00	-0.96	1.97 H	43	46.86	6.18
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



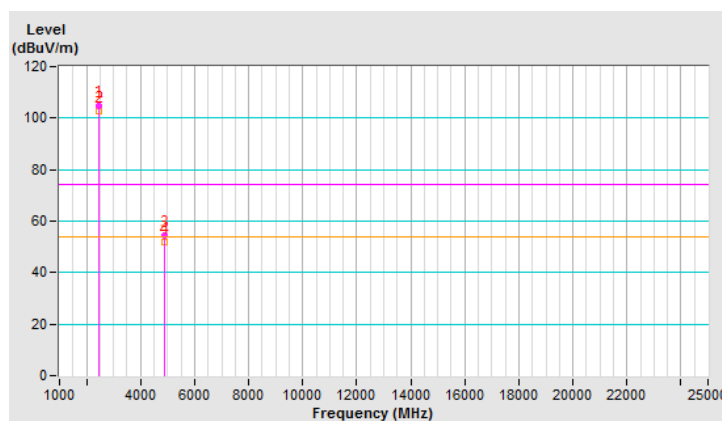
操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.96 PK			1.28 V	265	105.16	-0.20
2	*2437.00	102.55 AV			1.28 V	265	102.75	-0.20
3	4874.00	54.39 PK	74.00	-19.61	1.98 V	109	48.21	6.18
4	4874.00	52.04 AV	54.00	-1.96	1.98 V	109	45.86	6.18
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

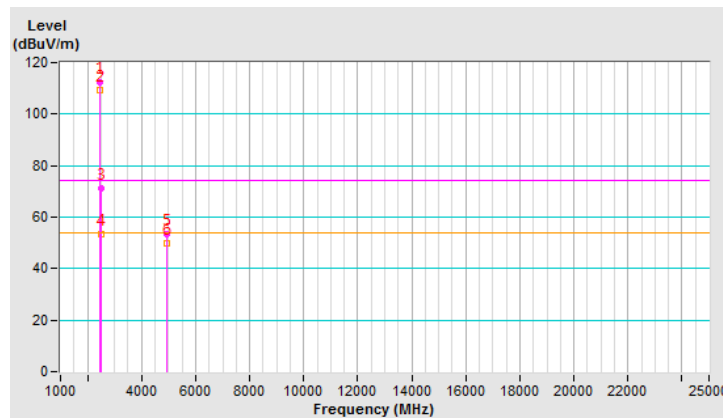


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.47 PK			2.42 H	183	112.65	-0.18
2	*2462.00	109.16 AV			2.42 H	183	109.34	-0.18
3	2490.27	71.13 PK	74.00	-2.87	2.42 H	183	71.28	-0.15
4	2490.27	53.62 AV	54.00	-0.38	2.42 H	183	53.77	-0.15
5	4924.00	53.37 PK	74.00	-20.63	1.69 H	46	47.26	6.11
6	4924.00	49.73 AV	54.00	-4.27	1.69 H	46	43.62	6.11
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

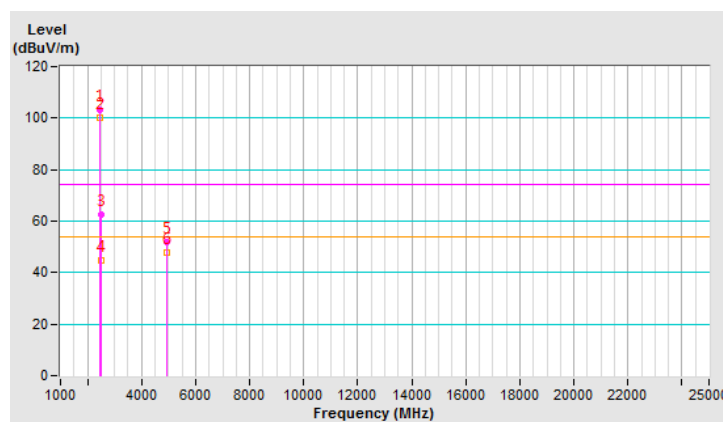


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.11 PK			1.31 V	269	103.29	-0.18
2	*2462.00	100.09 AV			1.31 V	269	100.27	-0.18
3	2490.27	62.73 PK	74.00	-11.27	1.31 V	269	62.88	-0.15
4	2490.27	44.72 AV	54.00	-9.28	1.31 V	269	44.87	-0.15
5	4924.00	51.82 PK	74.00	-22.18	2.01 V	96	45.71	6.11
6	4924.00	47.69 AV	54.00	-6.31	2.01 V	96	41.58	6.11
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



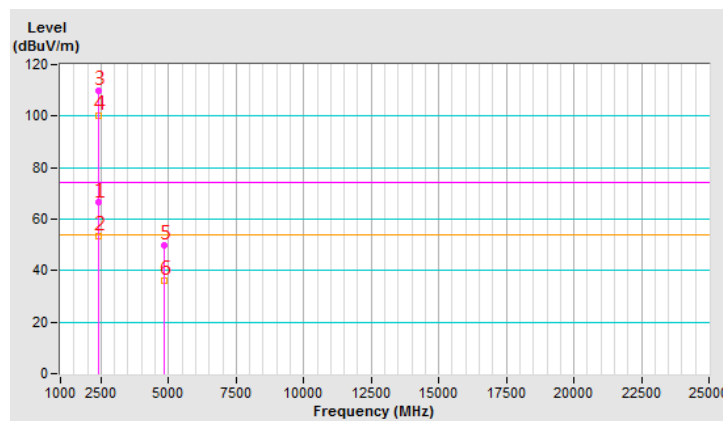
802.11g

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	72%RH
測試日期：	108 年 6 月 4 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.44 PK	74.00	-7.56	1.15 H	198	66.66	-0.22
2	2390.00	53.58 AV	54.00	-0.42	1.15 H	198	53.80	-0.22
3	*2412.00	109.89 PK			1.15 H	198	110.10	-0.21
4	*2412.00	100.21 AV			1.15 H	198	100.42	-0.21
5	4824.00	49.90 PK	74.00	-24.10	2.25 H	33	43.52	6.38
6	4824.00	36.09 AV	54.00	-17.91	2.25 H	33	29.71	6.38
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

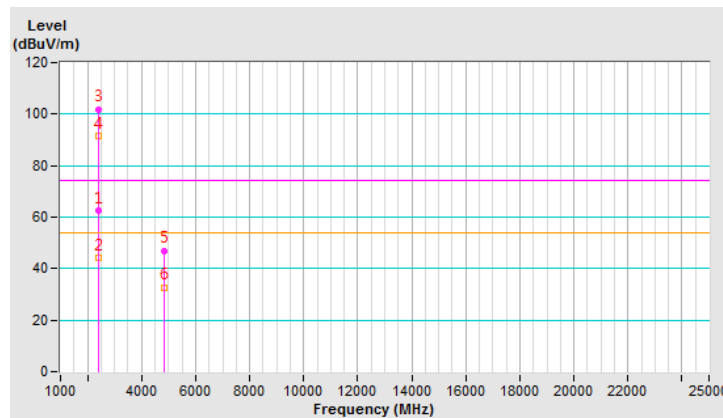


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.32 PK	74.00	-11.68	1.33 V	272	62.54	-0.22
2	2390.00	44.04 AV	54.00	-9.96	1.33 V	272	44.26	-0.22
3	*2412.00	101.64 PK			1.33 V	272	101.85	-0.21
4	*2412.00	91.33 AV			1.33 V	272	91.54	-0.21
5	4824.00	46.96 PK	74.00	-27.04	1.98 V	105	40.58	6.38
6	4824.00	32.75 AV	54.00	-21.25	1.98 V	105	26.37	6.38
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

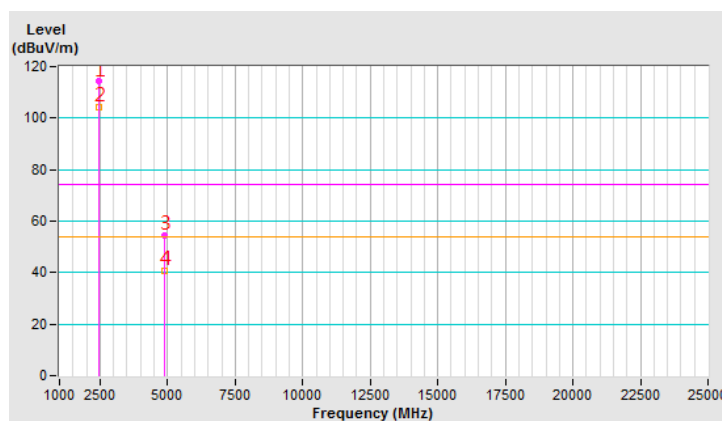


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	72%RH
測試日期：	108年6月4日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.21 PK			1.08 H	202	114.41	-0.20
2	*2437.00	104.29 AV			1.08 H	202	104.49	-0.20
3	4874.00	54.36 PK	74.00	-19.64	2.31 H	30	48.18	6.18
4	4874.00	40.82 AV	54.00	-13.18	2.31 H	30	34.64	6.18
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



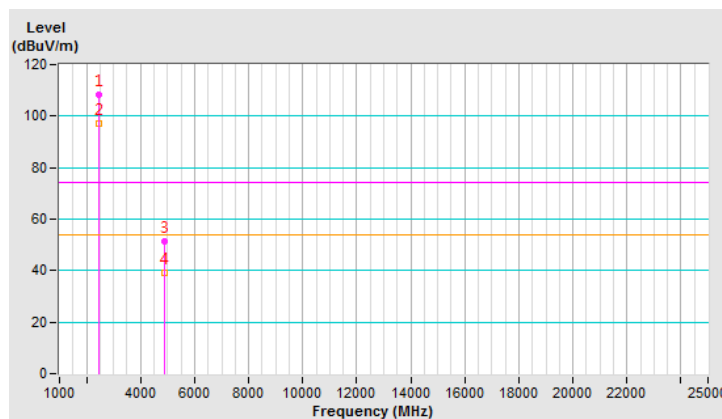
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.24 PK			1.32 V	264	108.44	-0.20
2	*2437.00	97.34 AV			1.32 V	264	97.54	-0.20
3	4874.00	51.44 PK	74.00	-22.56	2.03 V	109	45.26	6.18
4	4874.00	39.16 AV	54.00	-14.84	2.03 V	109	32.98	6.18
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

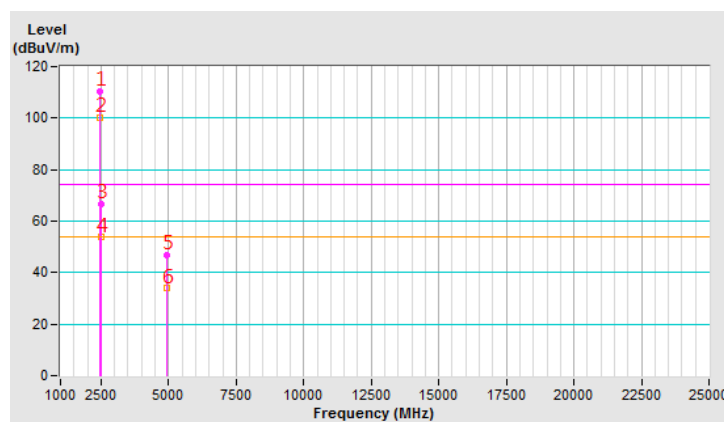


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	72%RH
測試日期：	108 年 6 月 4 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.23 PK			1.11 H	197	110.41	-0.18
2	*2462.00	100.27 AV			1.11 H	197	100.45	-0.18
3	2483.50	66.57 PK	74.00	-7.43	1.11 H	197	66.73	-0.16
4	2483.50	53.67 AV	54.00	-0.33	1.11 H	197	53.83	-0.16
5	4924.00	46.93 PK	74.00	-27.07	2.27 H	37	40.82	6.11
6	4924.00	33.84 AV	54.00	-20.16	2.27 H	37	27.73	6.11
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

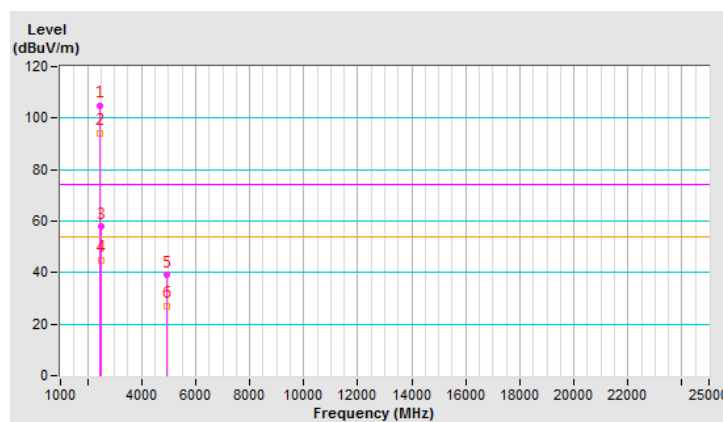


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.78 PK			1.22 V	276	104.96	-0.18
2	*2462.00	93.99 AV			1.22 V	276	94.17	-0.18
3	2483.50	57.73 PK	74.00	-16.27	1.22 V	276	57.89	-0.16
4	2483.50	44.59 AV	54.00	-9.41	1.22 V	276	44.75	-0.16
5	4924.00	38.90 PK	74.00	-35.10	2.07 V	106	32.79	6.11
6	4924.00	26.99 AV	54.00	-27.01	2.07 V	106	20.88	6.11
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



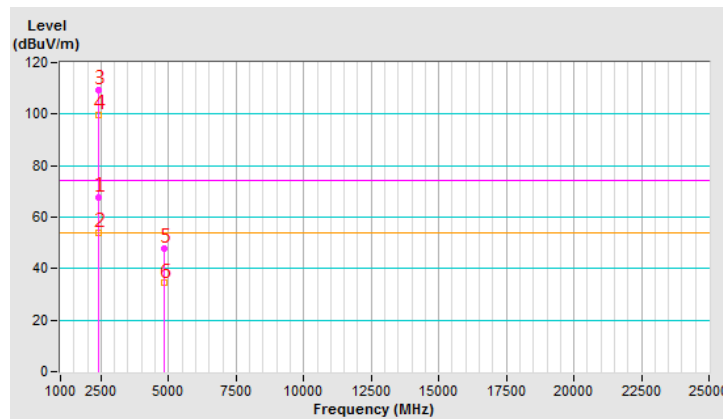
802.11n (20MHz)

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1 : 2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.58 PK	74.00	-6.42	2.51 H	186	67.80	-0.22
2	2390.00	53.80 AV	54.00	-0.20	2.51 H	186	54.02	-0.22
3	*2412.00	109.48 PK			2.51 H	186	109.69	-0.21
4	*2412.00	99.53 AV			2.51 H	186	99.74	-0.21
5	4824.00	47.93 PK	74.00	-26.07	1.87 H	268	41.55	6.38
6	4824.00	34.34 AV	54.00	-19.66	1.87 H	268	27.96	6.38
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

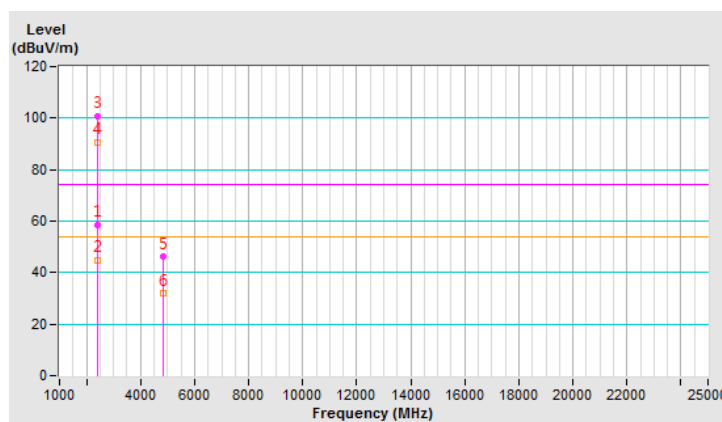


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.52 PK	74.00	-15.48	1.24 V	272	58.74	-0.22
2	2390.00	44.63 AV	54.00	-9.37	1.24 V	272	44.85	-0.22
3	*2412.00	100.67 PK			1.24 V	272	100.88	-0.21
4	*2412.00	90.57 AV			1.24 V	272	90.78	-0.21
5	4824.00	46.06 PK	74.00	-27.94	2.05 V	109	39.68	6.38
6	4824.00	31.85 AV	54.00	-22.15	2.05 V	109	25.47	6.38
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

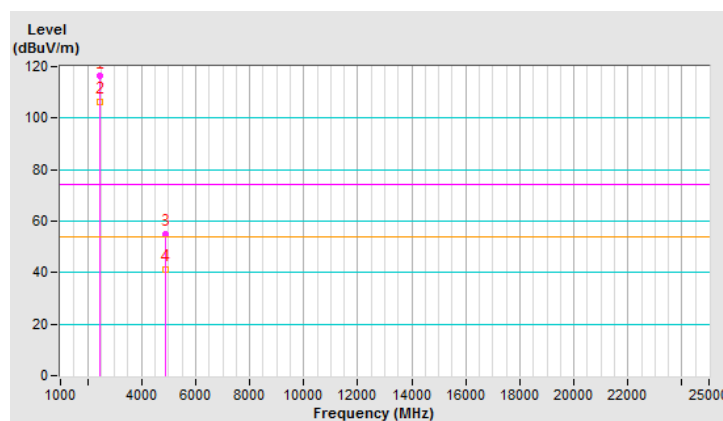


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.27 PK			2.45 H	181	116.47	-0.20
2	*2437.00	106.46 AV			2.45 H	181	106.66	-0.20
3	4874.00	54.95 PK	74.00	-19.05	1.79 H	40	48.77	6.18
4	4874.00	41.41 AV	54.00	-12.59	1.79 H	40	35.23	6.18
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



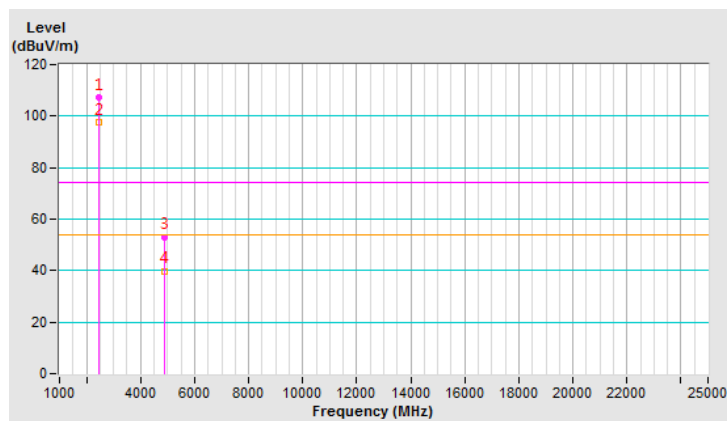
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.08 PK			1.26 V	273	107.28	-0.20
2	*2437.00	97.43 AV			1.26 V	273	97.63	-0.20
3	4874.00	53.05 PK	74.00	-20.95	2.10 V	107	46.87	6.18
4	4874.00	39.64 AV	54.00	-14.36	2.10 V	107	33.46	6.18
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " * ": Fundamental frequency (主頻).
- " # ": The radiated frequency is out of the restricted band.
- " - ": The emission levels were too low to be detected.
- The blank is not available, the limit of fundamental frequency was restricted at the output power.

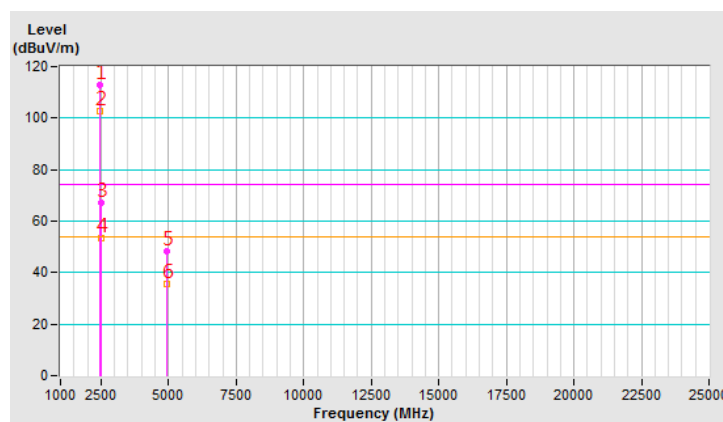


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.89 PK			2.44 H	185	113.07	-0.18
2	*2462.00	102.76 AV			2.44 H	185	102.94	-0.18
3	2483.50	67.00 PK	74.00	-7.00	2.44 H	185	67.16	-0.16
4	2483.50	53.60 AV	54.00	-0.40	2.44 H	185	53.76	-0.16
5	4924.00	48.47 PK	74.00	-25.53	2.36 H	341	42.36	6.11
6	4924.00	35.73 AV	54.00	-18.27	2.36 H	341	29.62	6.11
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

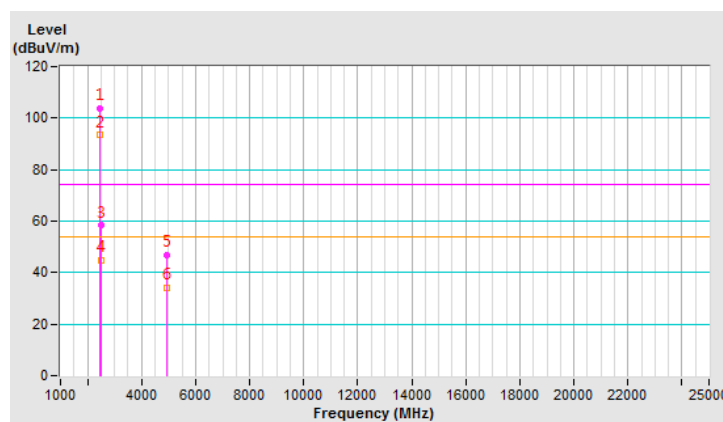


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.97 PK			1.28 V	264	104.15	-0.18
2	*2462.00	93.37 AV			1.28 V	264	93.55	-0.18
3	2483.50	58.29 PK	74.00	-15.71	1.28 V	264	58.45	-0.16
4	2483.50	44.62 AV	54.00	-9.38	1.28 V	264	44.78	-0.16
5	4924.00	46.66 PK	74.00	-27.34	2.07 V	113	40.55	6.11
6	4924.00	33.99 AV	54.00	-20.01	2.07 V	113	27.88	6.11
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



802.11n (40MHz)

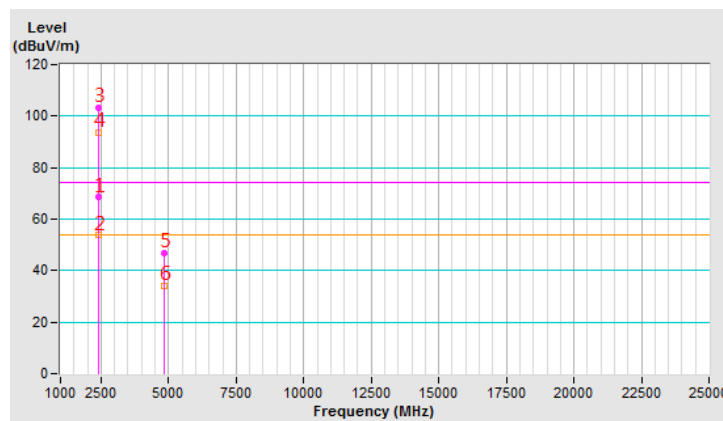
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.47 PK	74.00	-5.53	2.49 H	183	68.69	-0.22
2	2390.00	53.70 AV	54.00	-0.30	2.49 H	183	53.92	-0.22
3	*2422.00	103.19 PK			2.49 H	183	103.39	-0.20
4	*2422.00	93.81 AV			2.49 H	183	94.01	-0.20
5	4844.00	46.85 PK	74.00	-27.15	1.85 H	102	40.56	6.29
6	4844.00	33.95 AV	54.00	-20.05	1.85 H	102	27.66	6.29
7	7266.00	-	-	-	-	-	-	-
8	#9688.00	-	-	-	-	-	-	-
9	12110.00	-	-	-	-	-	-	-
10	#14532.00	-	-	-	-	-	-	-
11	#16954.00	-	-	-	-	-	-	-
12	19376.00	-	-	-	-	-	-	-
13	#21798.00	-	-	-	-	-	-	-
14	#24220.00	-	-	-	-	-	-	-

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " * ": Fundamental frequency (主頻).
- " # ": The radiated frequency is out of the restricted band.
- " - ": The emission levels were too low to be detected.
- The blank is not available, the limit of fundamental frequency was restricted at the output power.

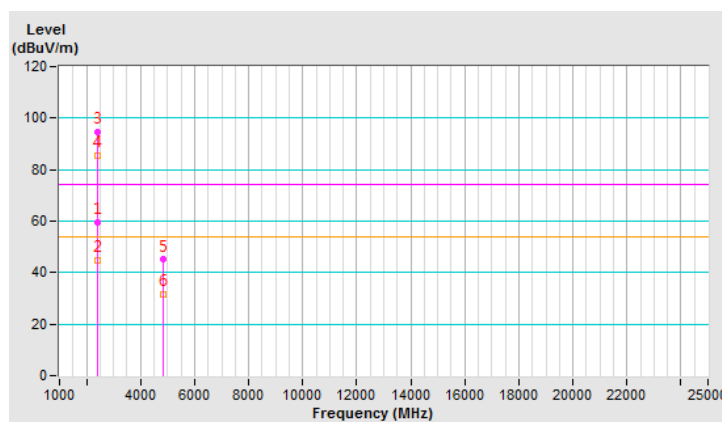


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.49 PK	74.00	-14.51	1.25 V	271	59.71	-0.22
2	2390.00	44.63 AV	54.00	-9.37	1.25 V	271	44.85	-0.22
3	*2422.00	94.61 PK			1.25 V	271	94.81	-0.20
4	*2422.00	85.29 AV			1.25 V	271	85.49	-0.20
5	4844.00	45.03 PK	74.00	-28.97	2.15 V	118	38.74	6.29
6	4844.00	31.73 AV	54.00	-22.27	2.15 V	118	25.44	6.29
7	7266.00	-	-	-	-	-	-	-
8	#9688.00	-	-	-	-	-	-	-
9	12110.00	-	-	-	-	-	-	-
10	#14532.00	-	-	-	-	-	-	-
11	#16954.00	-	-	-	-	-	-	-
12	19376.00	-	-	-	-	-	-	-
13	#21798.00	-	-	-	-	-	-	-
14	#24220.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

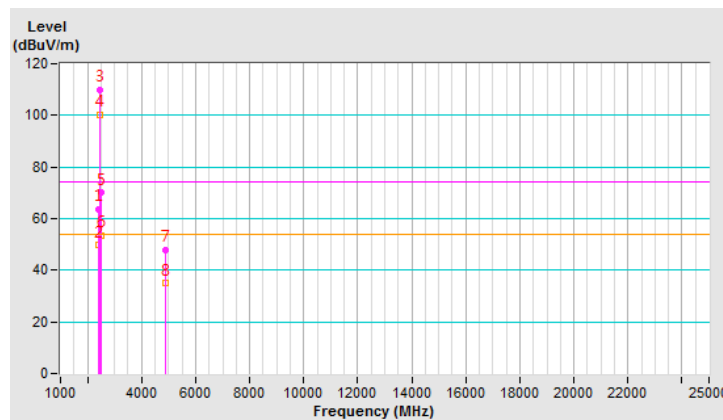


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.39 PK	74.00	-10.61	2.45 H	183	63.61	-0.22
2	2390.00	49.63 AV	54.00	-4.37	2.45 H	183	49.85	-0.22
3	*2437.00	110.08 PK			2.45 H	183	110.28	-0.20
4	*2437.00	100.37 AV			2.45 H	183	100.57	-0.20
5	2483.50	69.93 PK	74.00	-4.07	2.45 H	183	70.09	-0.16
6	2483.50	53.41 AV	54.00	-0.59	2.45 H	183	53.57	-0.16
7	4874.00	47.74 PK	74.00	-26.26	1.88 H	41	41.56	6.18
8	4874.00	34.87 AV	54.00	-19.13	1.88 H	41	28.69	6.18
9	7311.00	-	-	-	-	-	-	-
10	#9748.00	-	-	-	-	-	-	-
11	12185.00	-	-	-	-	-	-	-
12	#14622.00	-	-	-	-	-	-	-
13	#17059.00	-	-	-	-	-	-	-
14	19496.00	-	-	-	-	-	-	-
15	#21933.00	-	-	-	-	-	-	-
16	#24370.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

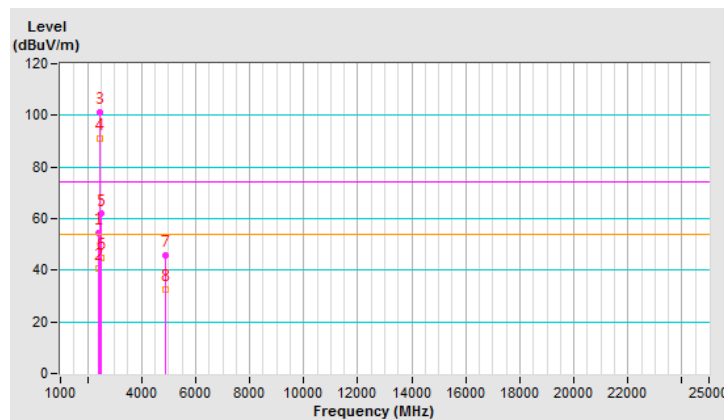


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	54.55 PK	74.00	-19.45	1.23 V	274	54.77	-0.22
2	2390.00	40.66 AV	54.00	-13.34	1.23 V	274	40.88	-0.22
3	*2437.00	101.25 PK			1.23 V	274	101.45	-0.20
4	*2437.00	91.21 AV			1.23 V	274	91.41	-0.20
5	2483.50	61.80 PK	74.00	-12.20	1.23 V	274	61.96	-0.16
6	2483.50	44.59 AV	54.00	-9.41	1.23 V	274	44.75	-0.16
7	4874.00	45.84 PK	74.00	-28.16	2.12 V	115	39.66	6.18
8	4874.00	32.73 AV	54.00	-21.27	2.12 V	115	26.55	6.18
9	7311.00	-	-	-	-	-	-	-
10	#9748.00	-	-	-	-	-	-	-
11	12185.00	-	-	-	-	-	-	-
12	#14622.00	-	-	-	-	-	-	-
13	#17059.00	-	-	-	-	-	-	-
14	19496.00	-	-	-	-	-	-	-
15	#21933.00	-	-	-	-	-	-	-
16	#24370.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

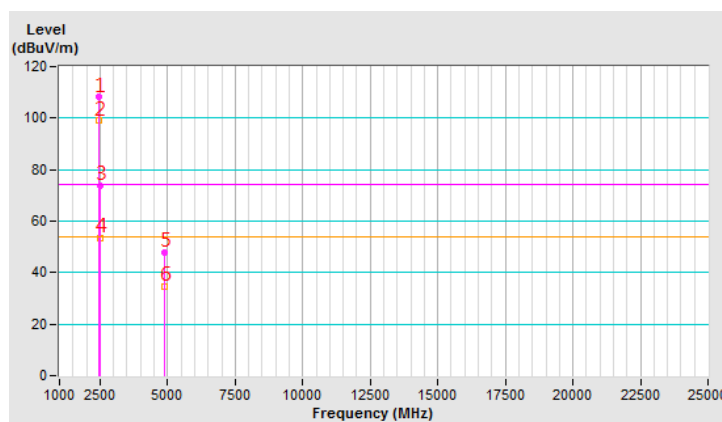


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	108.13 PK			2.44 H	181	108.31	-0.18
2	*2452.00	98.97 AV			2.44 H	181	99.15	-0.18
3	2483.50	73.90 PK	74.00	-0.10	2.44 H	181	74.06	-0.16
4	2483.50	53.60 AV	54.00	-0.40	2.44 H	181	53.76	-0.16
5	4904.00	47.66 PK	74.00	-26.34	1.96 H	232	41.56	6.10
6	4904.00	34.79 AV	54.00	-19.21	1.96 H	232	28.69	6.10
7	7356.00	-	-	-	-	-	-	-
8	#9808.00	-	-	-	-	-	-	-
9	12260.00	-	-	-	-	-	-	-
10	#14712.00	-	-	-	-	-	-	-
11	#17164.00	-	-	-	-	-	-	-
12	19616.00	-	-	-	-	-	-	-
13	22068.00	-	-	-	-	-	-	-
14	#24520.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

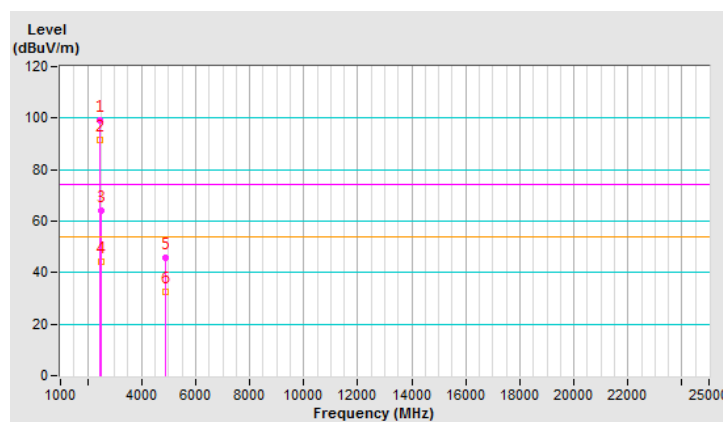


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	99.18 PK			1.26 V	268	99.36	-0.18
2	*2452.00	91.45 AV			1.26 V	268	91.63	-0.18
3	2483.50	63.99 PK	74.00	-10.01	1.26 V	268	64.15	-0.16
4	2483.50	44.20 AV	54.00	-9.80	1.26 V	268	44.36	-0.16
5	4904.00	45.97 PK	74.00	-28.03	2.08 V	111	39.87	6.10
6	4904.00	32.55 AV	54.00	-21.45	2.08 V	111	26.45	6.10
7	7356.00	-	-	-	-	-	-	-
8	#9808.00	-	-	-	-	-	-	-
9	12260.00	-	-	-	-	-	-	-
10	#14712.00	-	-	-	-	-	-	-
11	#17164.00	-	-	-	-	-	-	-
12	19616.00	-	-	-	-	-	-	-
13	22068.00	-	-	-	-	-	-	-
14	#24520.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



4.6.2 接收諧波

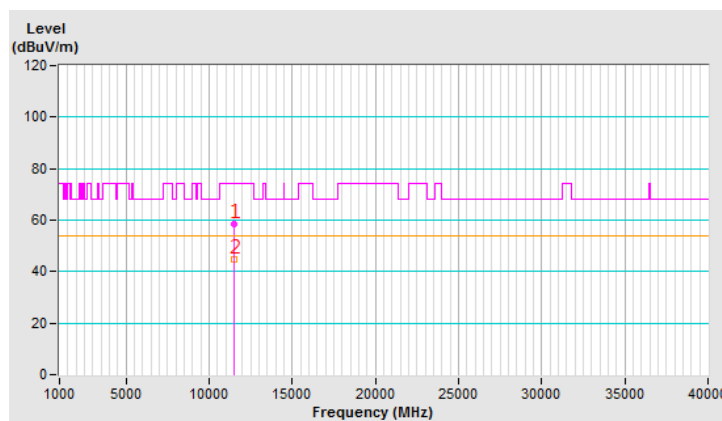
802.11a

操作模式：	接收		
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11490.00	58.60 PK	74.00	-15.40	2.14 H	176	40.53	18.07
2	11490.00	44.95 AV	54.00	-9.05	2.14 H	176	26.88	18.07

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

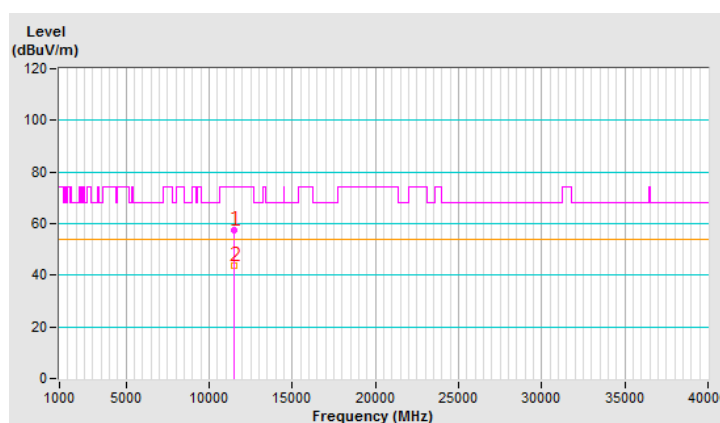


操 作 模 式 :	接收		
基 本 波 頻 率 :	CH 149 : 5745 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度 :	23°C	量測場地濕度 :	65%RH
測 試 日 期 :	108 年 5 月 11 日	測 試 者 :	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11490.00	57.24 PK	74.00	-16.76	1.47 V	258	39.17	18.07
2	11490.00	43.50 AV	54.00	-10.50	1.47 V	258	25.43	18.07

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.



4.6.3 其它不必要之訊號

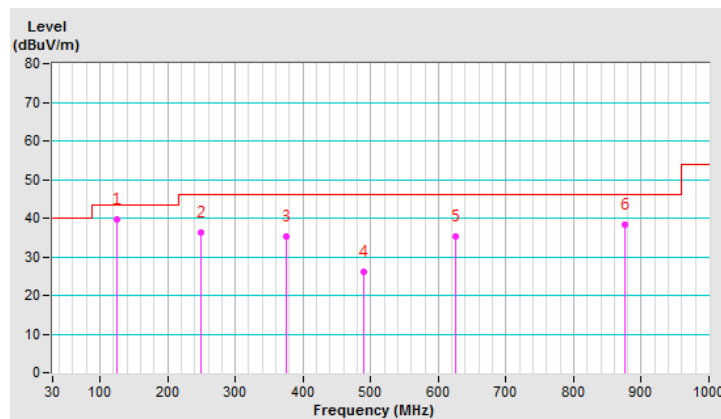
802.11g

操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	125.01	39.83 QP	43.50	-3.67	2.41 H	114	48.39	-8.56
2	250.00	36.30 QP	46.00	-9.70	1.55 H	210	43.25	-6.95
3	375.03	35.17 QP	46.00	-10.83	2.87 H	337	38.87	-3.70
4	489.15	26.20 QP	46.00	-19.80	3.65 H	39	27.61	-1.41
5	625.00	35.41 QP	46.00	-10.59	2.22 H	139	33.85	1.56
6	875.02	38.31 QP	46.00	-7.69	1.00 H	358	32.61	5.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

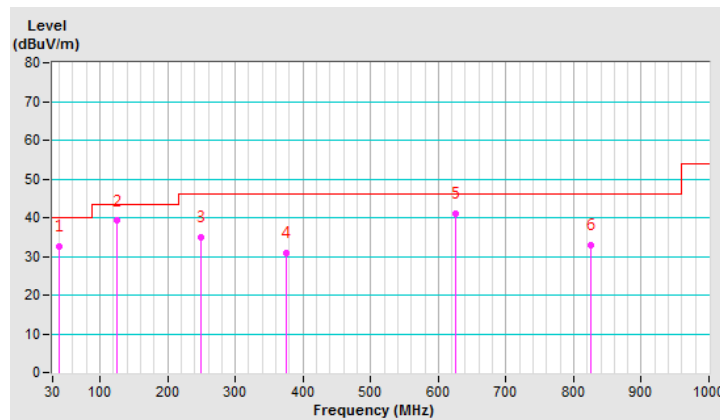


操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	40.48	32.65 QP	40.00	-7.35	1.42 V	231	40.35	-7.70
2	125.01	39.22 QP	43.50	-4.28	2.52 V	53	47.78	-8.56
3	250.00	35.06 QP	46.00	-10.94	3.45 V	76	42.01	-6.95
4	375.03	30.96 QP	46.00	-15.04	1.11 V	223	34.66	-3.70
5	625.00	41.01 QP	46.00	-4.99	2.85 V	111	39.45	1.56
6	825.50	33.01 QP	46.00	-12.99	1.00 V	290	27.90	5.11

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

4.8 配置照片

請參照 Test Setup Photos

5 電源線傳導干擾之量測

5.1 適用標準

請見本報告 3.1 節第 1 項的規定。

5.2 量測方法

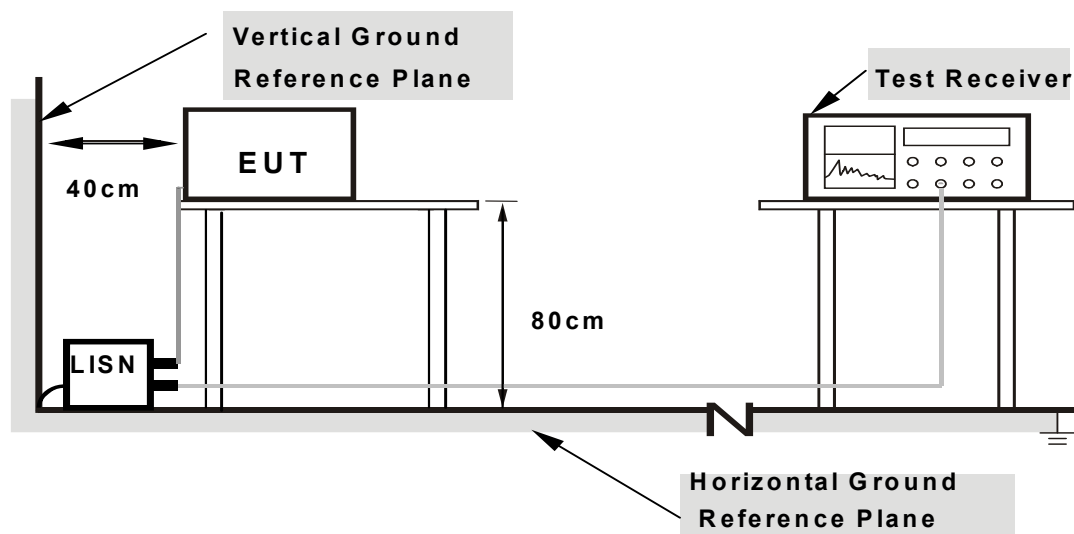
將待測物置於 0.8 米高的非金屬桌面，使其操作在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由 0.15MHz 至 30MHz 之間之電源線傳導放射強度。

5.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver R&S	ESCS 30	847124/029	Oct. 24, 2018	Oct. 23, 2019
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 22, 2018	Oct. 21, 2019
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 17, 2019	Mar. 16, 2020
50 ohms Terminator	N/A	3	Oct. 22, 2018	Oct. 21, 2019
RF Cable	5D-FB	COCCAB-001	Sep. 28, 2018	Sep. 27, 2019
Fixed attenuator EMCI	STI02-2200-10	003	Mar. 14, 2019	Mar. 13, 2020
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

- Notes:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in Conduction 1. (TAF no.: 2022)
 3. The measurement uncertainty is 1.8 dB, which is calculated as per the document CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5.4 測試配置



Note: 1.Support units were connected to second LISN.

5.5 干擾值之計算

餘裕度 Margin(dB)= 結果值 Emission level (dBuV)-限制值 Limit value (dBuV)

電源傳導干擾電壓之計算公式如下

結果值 Emission level (dBuV)=校正因子 Correction Factor (dB)+儀器讀值 Reading value (dBuV)

其中校正因子 Correction Factor (dB)為：

饋線損失+電源阻抗模擬網路損失

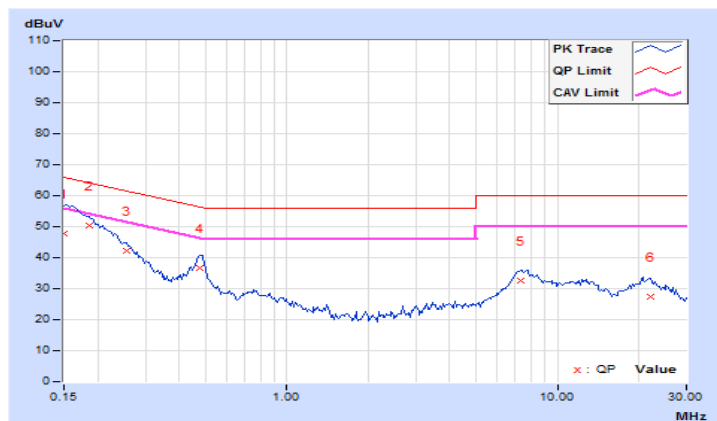
5.6 量測結果

操作模式	發射	測試日期	108 年 6 月 13 日
基本波頻率	CH 6: 2437MHz	量測場地溫度	23°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	何欣儒		

		6 dB Bandwidth: 9kHz				PHASE: LINE (L)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15000	10.03	37.74	22.20	47.77	32.23	66.00	56.00	-18.23	-23.77
0.18516	10.04	40.40	25.51	50.44	35.55	64.25	54.25	-13.81	-18.70
0.25547	10.06	32.08	18.38	42.14	28.44	61.58	51.58	-19.44	-23.14
0.47813	10.09	26.62	19.54	36.71	29.63	56.37	46.37	-19.66	-16.74
7.33984	10.53	22.10	15.50	32.63	26.03	60.00	50.00	-27.37	-23.97
22.00391	11.41	16.13	10.53	27.54	21.94	60.00	50.00	-32.46	-28.06

NOTE:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

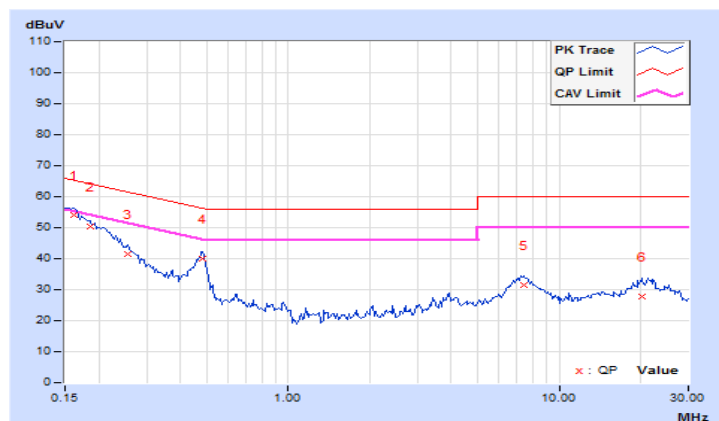


操作模式	發射	測試日期	108 年 6 月 13 日
基本波頻率	CH 6: 2437MHz	量測場地溫度	23°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	何欣儒		

		6 dB Bandwidth: 9kHz				PHASE: NEUTRAL (N)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.16172	9.94	44.13	29.07	54.07	39.01	65.38	55.38	-11.31	-16.37
0.18516	9.95	40.56	22.84	50.51	32.79	64.25	54.25	-13.74	-21.46
0.25547	9.96	31.52	17.17	41.48	27.13	61.58	51.58	-20.10	-24.45
0.48203	9.98	30.09	24.41	40.07	34.39	56.30	46.30	-16.23	-11.91
7.39844	10.37	21.28	15.83	31.65	26.20	60.00	50.00	-28.35	-23.80
20.10938	11.14	16.68	11.14	27.82	22.28	60.00	50.00	-32.18	-27.72

NOTE:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



Note: The test, calibration and test results are compliance with the TAF (Certificate # 2022)

5.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

5.8 配置照片

請參照 Test Setup Photos

6 6 dB 頻寬之要求

6.1 適用標準

請見本報告 3.1 節第 5 項(I)的規定。

6.2 量測方法

- 將待測物輸出經由衰減器接到頻譜分析儀上。
- 設定待測物處於連續發射狀態。
- 計算最大輸出功率峰值減 6dB 的最大頻率範圍。

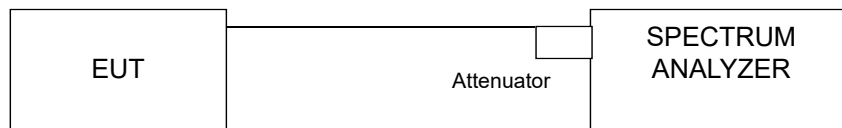
6.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 27, 2018	Sep. 26, 2019

NOTE:

- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- The measurement uncertainty is 207Hz, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

6.4 測試配置



6.5 量測結果

操作模式	發射	測試日期	108 年 6 月 18 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	8.10	0.5	PASS
6	2437	8.05	0.5	PASS
11	2462	8.10	0.5	PASS

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.18	0.5	PASS
6	2437	15.17	0.5	PASS
11	2462	15.19	0.5	PASS

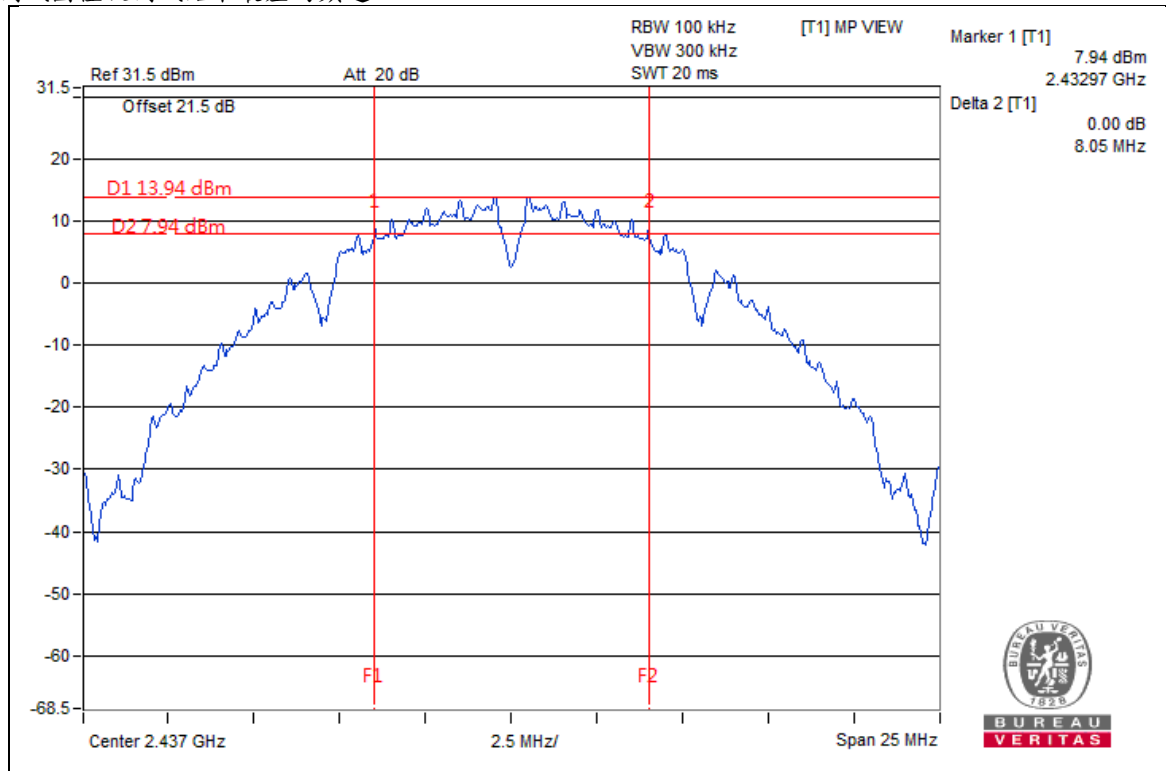
802.11n (20MHz)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.18	0.5	Pass
6	2437	15.12	0.5	Pass
11	2462	15.20	0.5	Pass

802.11n (40MHz)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	35.21	0.5	Pass
6	2437	35.15	0.5	Pass
9	2452	35.20	0.5	Pass

**此測試圖僅放測試結果最差的頻道。



6.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

7 傳導輸出功率之量測

7.1 適用標準

請見本報告 3.1 節第 6 項(I)及 4 項(I)的規定。

7.2 量測方法

- 將待測物輸出經由衰減器接到功率計上。
- 設定待測物處於連續發射狀態。
- 計算其最大輸出功率。

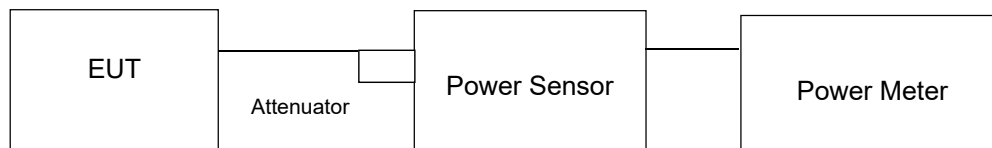
7.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Anritsu Power Sensor	MA2411B	0738404	Apr. 16, 2019	Apr. 15, 2020
Anritsu Power Meter	ML2495A	0842014	Apr. 16, 2019	Apr. 15, 2020

NOTE:

- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- The measurement uncertainty is 1.393dB, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.
- Measurement Bandwidth of ML2495A is 65MHz greater than 6dB bandwidth of emission.

7.4 測試配置



7.5 量測結果

操作模式	發射	測試日期	108 年 6 月 18 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

802.11b

Channel	Chan. Freq. (MHz)	Average Power (dBm)	Average Power (mW)	Limit (dBm)	Pass / Fail
1	2412	22.99	199.067	30	Pass
6	2437	22.91	195.434	30	Pass
11	2462	22.31	170.216	30	Pass

802.11g

Channel	Chan. Freq. (MHz)	Average Power (dBm)	Average Power (mW)	Limit (dBm)	Pass / Fail
1	2412	18.17	65.615	30	Pass
6	2437	25.67	368.978	30	Pass
11	2462	18.27	67.143	30	Pass

802.11n (20MHz)

Channel	Chan. Freq. (MHz)	Average Power (dBm)	Average Power (mW)	Limit (dBm)	Pass / Fail
1	2412	17.44	55.463	30	Pass
6	2437	25.56	359.749	30	Pass
11	2462	17.62	57.810	30	Pass

802.11n (40MHz)

Channel	Chan. Freq. (MHz)	Average Power (dBm)	Average Power (mW)	Limit (dBm)	Pass / Fail
3	2422	13.88	24.434	30	Pass
6	2437	19.24	83.946	30	Pass
9	2452	16.11	40.832	30	Pass

7.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

8 功率頻譜密度之量測

8.1 適用標準

請見本報告 3.1 節第 7 項(I)的規定。

8.2 量測方法

- 將待測物之天線埠連接至測試儀器。
- 設定解析頻寬為 3 kHz，視訊頻寬為 10kHz，掃描時間設為自動，直至掃描信號穩定。
- 使用峰值功能鍵,並找到最大的峰值準位。

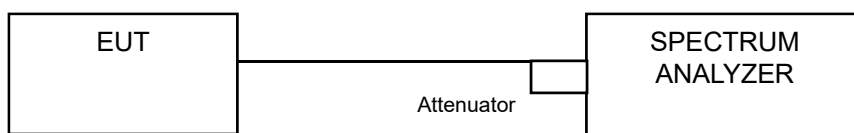
8.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 27, 2018	Sep. 26, 2019

NOTE:

- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- The measurement uncertainty is 0.9dB, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

8.4 測試配置



8.5 量測結果

操作模式	發射	測試日期	108 年 6 月 18 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

802.11b

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Pass /Fail
1	2412	-4.97	8	Pass
6	2437	-3.70	8	Pass
11	2462	-5.06	8	Pass

802.11g

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm)	Limit (dBm)	Pass /Fail
1	2412	-10.94	0.20	-10.74	8	Pass
6	2437	-5.90	0.20	-5.70	8	Pass
11	2462	-9.91	0.20	-9.71	8	Pass

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11n (20MHz)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm)	Limit (dBm)	Pass /Fail
1	2412	-13.41	0.25	-13.16	8	Pass
6	2437	-6.20	0.25	-5.95	8	Pass
11	2462	-10.42	0.25	-10.17	8	Pass

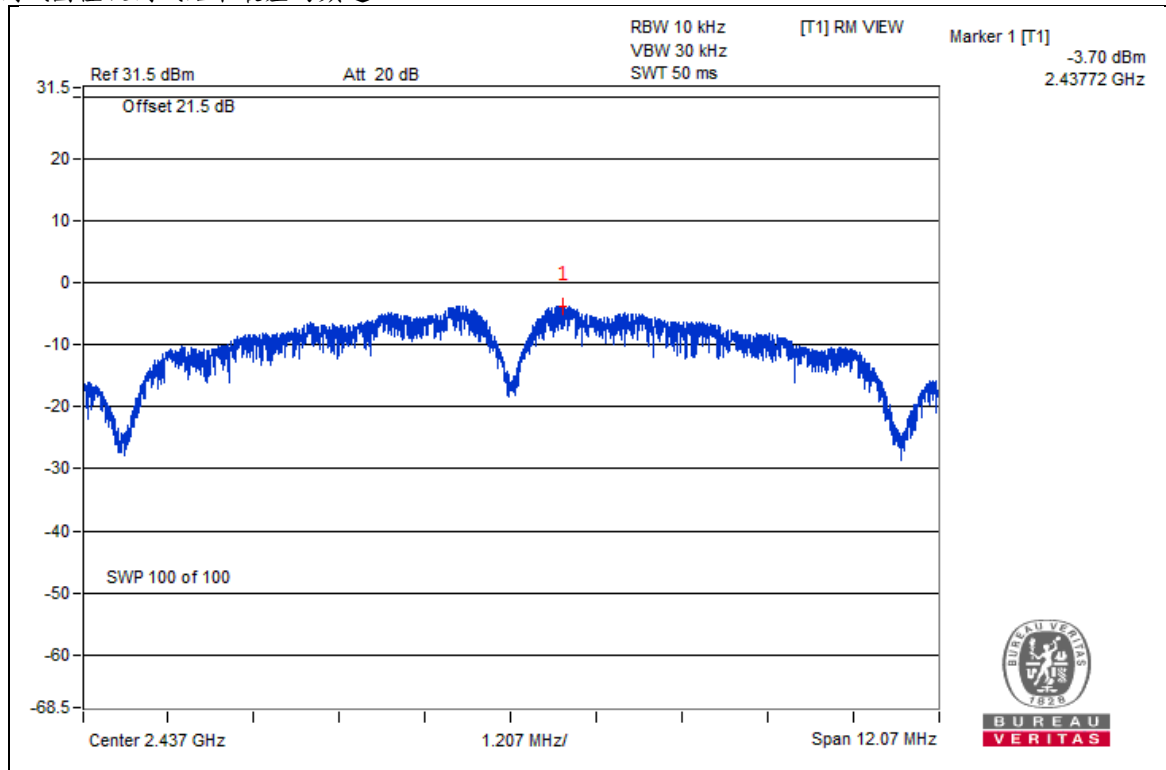
Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11n (40MHz)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm)	Limit (dBm)	Pass /Fail
3	2422	-19.61	0.43	-19.18	8	Pass
6	2437	-13.88	0.43	-13.45	8	Pass
9	2452	-14.75	0.43	-14.32	8	Pass

Note: Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



8.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

U-NII 頻段測試紀錄結果

9 帶外發射之量測

9.1 適用標準

待測物操作頻帶	適用標準
☒ 5.15 GHz~5.25 GHz	請見本報告 3.1 節第 2 項(II)的規定
☐ 5.25 GHz~5.35 GHz	請見本報告 3.1 節第 2 項(II)的規定
☐ 5.470 GHz~5.725 GHz	請見本報告 3.1 節第 2 項(II)的規定
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 2 項(III)的規定

9.2 量測方法

在電波暗室，將待測物置於 0.8 米高的非金屬桌面，使其操作在工作狀態。接收天線置於 3 米距離。桌面要 360 度旋轉，另外接收天線從離地 1 米至 4 米升降變化，以找出最大的輻射電場強度，接收天線分別置於水平、垂直極化各執行測試一次。

備註：對於 1GHz 以上場強輻射的測試，待測物則置於 1.5 米高的非金屬桌面

9.3 量測儀器

同 4.3 節

9.4 帶外發射之測試配置

同 4.4 節

9.5 場強度之計算

場強之計算公式如下：

結果值 Emission level (dBuV/m)=機器讀值 Raw Value (dBuV) +校正因子 Correction Factor (dB/m)

餘裕度 Margin(dB)= 結果值 Emission level (dBuV/m)-限制值 Limit value (dBuV/m)

*有效等向輻射功率限制值轉換場強值如下：

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v01r04		Field Strength at 3m	
		PK:74 (dBuV/m)	AV:54 (dBuV/m)
操作頻帶	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	技術規範 4.7.4.1 節	PK:-27 (dBm/MHz)	PK:68.2(dBuV/m)
5250~5350 MHz	技術規範 4.7.4.1 節		
5470~5725 MHz	技術規範 4.7.4.1 節		
5725~5850 MHz	☒ 技術規範 4.7.4.2 節	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2(dBuV/m) ^{*1} PK:105.2 (dBuV/m) ^{*2} PK: 110.8(dBuV/m) ^{*3} PK:122.2 (dBuV/m) ^{*4}
	☐ 技術規範 4.7.4.7 節	適用 3.10.1.5 節帶外發射限制	
*1 beyond 75 MHz or more above of the band edge.		*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note:

有效等向輻射功率限制值轉換場強之公式如下：

$$E=(30PG)^{1/2}/d$$

E: 以最寬解析頻寬所測得之最大場強值，單位:V/m。

G: 發射天線相對於全向性輻射器之數值增益。

d: 測試場強的距離，單位: m。

P: 求得之功率，單位:W。

9.6 帶外發射之量測結果

9.6.1 發射諧波

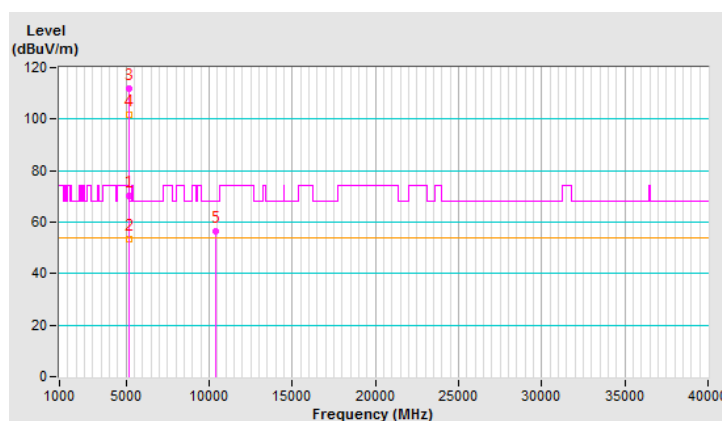
802.11a

操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 36 : 5180 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度 :	23°C	量測場地濕度 :	65%RH
測 試 日 期 :	108 年 5 月 10 日	測 試 者 :	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.05 PK	74.00	-3.95	2.90 H	188	62.84	7.21
2	5150.00	53.47 AV	54.00	-0.53	2.90 H	188	46.26	7.21
3	*5180.00	112.05 PK			2.90 H	187	104.80	7.25
4	*5180.00	101.81 AV			2.90 H	187	94.56	7.25
5	#10360.00	56.60 PK	68.20	-11.60	1.63 H	231	39.46	17.14
6	15540.00	-	-	-	-	-	-	-
7	20720.00	-	-	-	-	-	-	-
8	#25900.00	-	-	-	-	-	-	-
9	#31080.00	-	-	-	-	-	-	-
10	#36260.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



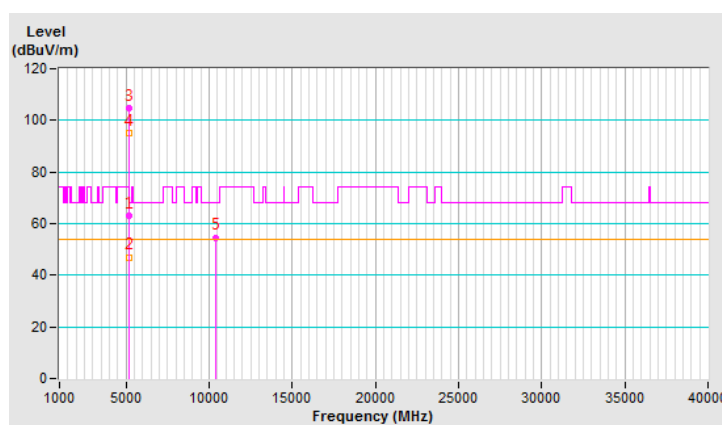
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.87 PK	74.00	-11.13	1.53 V	99	55.66	7.21
2	5150.00	47.00 AV	54.00	-7.00	1.53 V	99	39.79	7.21
3	*5180.00	104.50 PK			1.53 V	99	97.25	7.25
4	*5180.00	94.87 AV			1.53 V	99	87.62	7.25
5	#10360.00	54.26 PK	68.20	-13.94	2.15 V	105	37.12	17.14
6	15540.00	-	-	-	-	-	-	-
7	20720.00	-	-	-	-	-	-	-
8	#25900.00	-	-	-	-	-	-	-
9	#31080.00	-	-	-	-	-	-	-
10	#36260.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

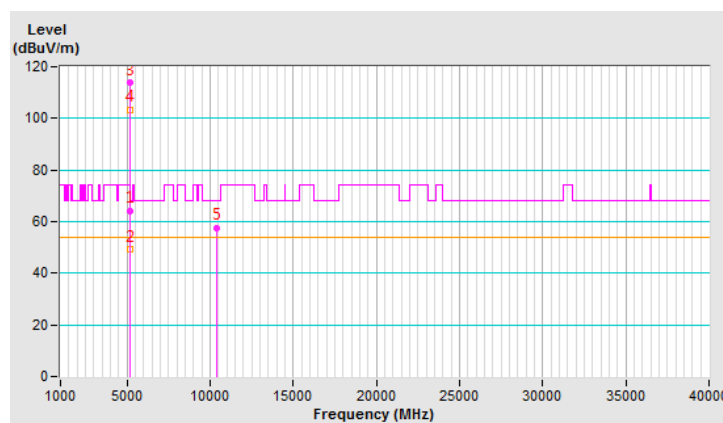


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.30 PK	74.00	-9.70	2.87 H	187	57.09	7.21
2	5150.00	49.10 AV	54.00	-4.90	2.87 H	187	41.89	7.21
3	*5200.00	113.71 PK			2.87 H	187	106.45	7.26
4	*5200.00	103.41 AV			2.87 H	187	96.15	7.26
5	#10400.00	57.49 PK	68.20	-10.71	1.94 H	221	40.15	17.34
6	15600.00	-	-	-	-	-	-	-
7	20800.00	-	-	-	-	-	-	-
8	#26000.00	-	-	-	-	-	-	-
9	31200.00	-	-	-	-	-	-	-
10	#36400.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



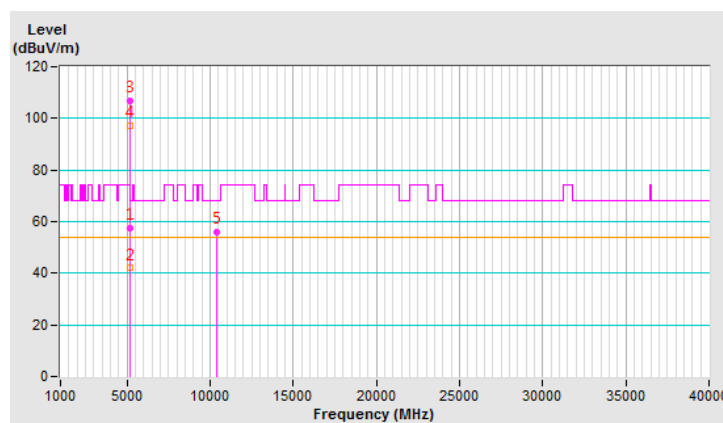
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.43 PK	74.00	-16.57	1.54 V	96	50.22	7.21
2	5150.00	41.99 AV	54.00	-12.01	1.54 V	96	34.78	7.21
3	*5200.00	106.82 PK			1.54 V	96	99.56	7.26
4	*5200.00	97.01 AV			1.54 V	96	89.75	7.26
5	#10400.00	56.08 PK	68.20	-12.12	2.36 V	110	38.74	17.34
6	15600.00	-	-	-	-	-	-	-
7	20800.00	-	-	-	-	-	-	-
8	#26000.00	-	-	-	-	-	-	-
9	31200.00	-	-	-	-	-	-	-
10	#36400.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

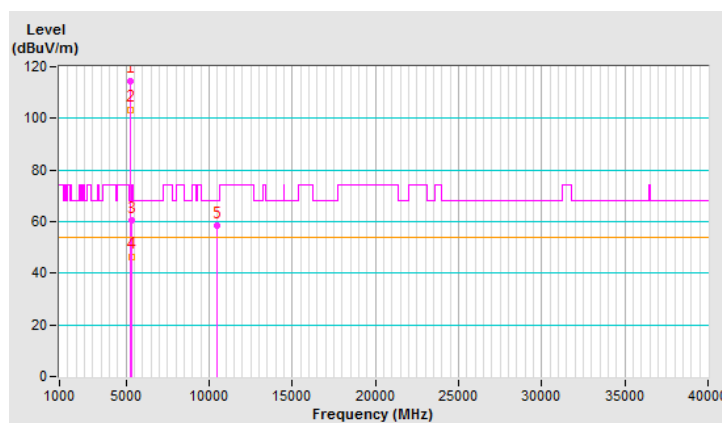


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	114.25 PK			2.72 H	186	107.29	6.96
2	*5240.00	103.22 AV			2.72 H	186	96.26	6.96
3	5350.00	60.29 PK	74.00	-13.71	2.72 H	186	52.92	7.37
4	5350.00	46.21 AV	54.00	-7.79	2.72 H	186	38.84	7.37
5	#10480.00	58.26 PK	68.20	-9.94	1.94 H	220	40.56	17.70
6	15720.00	-	-	-	-	-	-	-
7	20960.00	-	-	-	-	-	-	-
8	#26200.00	-	-	-	-	-	-	-
9	31440.00	-	-	-	-	-	-	-
10	#36680.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



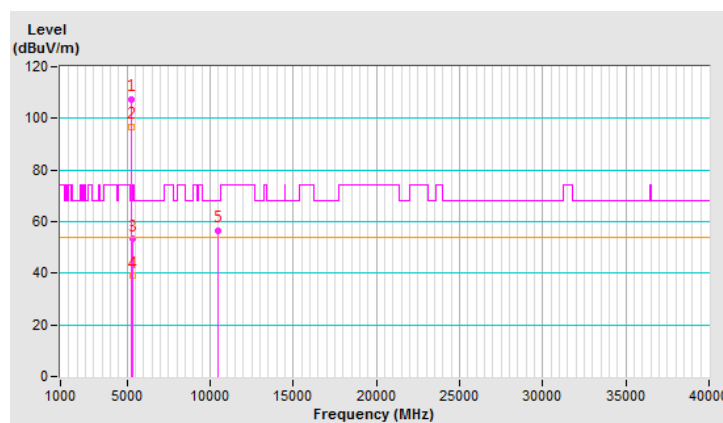
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	107.32 PK			1.53 V	100	100.36	6.96
2	*5240.00	96.48 AV			1.53 V	100	89.52	6.96
3	5350.00	53.16 PK	74.00	-20.84	1.53 V	100	45.79	7.37
4	5350.00	38.95 AV	54.00	-15.05	1.53 V	100	31.58	7.37
5	#10480.00	56.44 PK	68.20	-11.76	2.35 V	112	38.74	17.70
6	15720.00	-	-	-	-	-	-	-
7	20960.00	-	-	-	-	-	-	-
8	#26200.00	-	-	-	-	-	-	-
9	31440.00	-	-	-	-	-	-	-
10	#36680.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

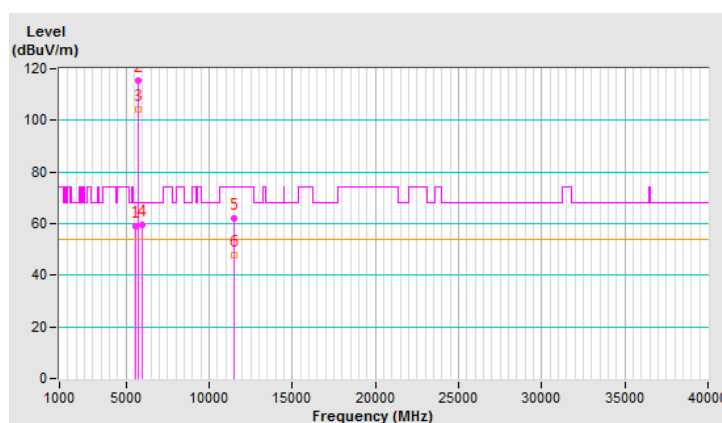


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5602.97	59.05 PK	68.20	-9.15	2.35 H	181	51.40	7.65
2	*5745.00	115.48 PK			2.35 H	181	107.89	7.59
3	*5745.00	104.25 AV			2.35 H	181	96.66	7.59
4	#5935.34	59.41 PK	68.20	-8.79	2.35 H	181	51.26	8.15
5	11490.00	61.95 PK	74.00	-12.05	1.65 H	238	43.88	18.07
6	11490.00	47.76 AV	54.00	-6.24	1.65 H	238	29.69	18.07
7	#17235.00	-	-	-	-	-	-	-
8	22980.00	-	-	-	-	-	-	-
9	#28725.00	-	-	-	-	-	-	-
10	#34470.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

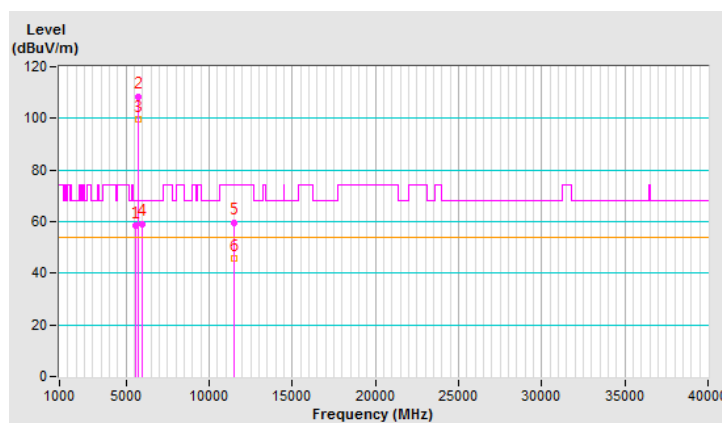


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.49	58.26 PK	68.20	-9.94	1.48 V	89	50.66	7.60
2	*5745.00	108.55 PK			1.48 V	39	100.96	7.59
3	*5745.00	99.44 AV			1.48 V	39	91.85	7.59
4	#5940.82	58.98 PK	68.20	-9.22	1.48 V	89	50.85	8.13
5	11490.00	59.72 PK	74.00	-14.28	2.13 V	104	41.65	18.07
6	11490.00	45.55 AV	54.00	-8.45	2.13 V	104	27.48	18.07
7	#17235.00	-	-	-	-	-	-	-
8	22980.00	-	-	-	-	-	-	-
9	#28725.00	-	-	-	-	-	-	-
10	#34470.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

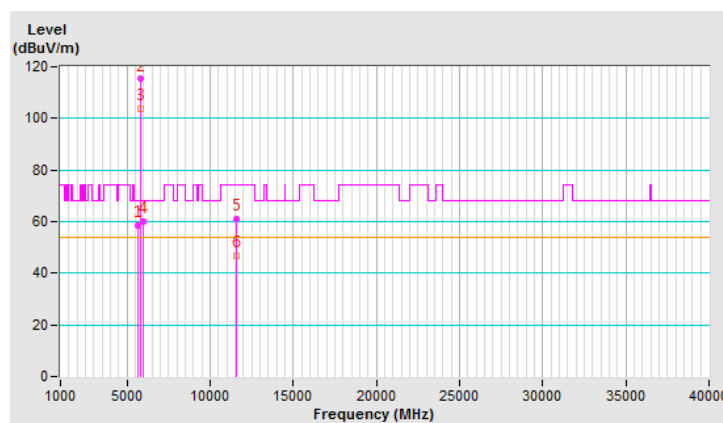


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157：5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.74	58.62 PK	68.20	-9.58	2.45 H	186	51.09	7.53
2	*5785.00	115.22 PK			2.45 H	186	107.48	7.74
3	*5785.00	103.88 AV			2.45 H	186	96.14	7.74
4	#5939.10	60.25 PK	68.20	-7.95	2.45 H	186	52.12	8.13
5	11570.00	61.27 PK	74.00	-12.73	1.62 H	248	43.29	17.98
6	11570.00	47.03 AV	54.00	-6.97	1.62 H	248	29.05	17.98
7	#17355.00	-	-	-	-	-	-	-
8	#23140.00	-	-	-	-	-	-	-
9	#28925.00	-	-	-	-	-	-	-
10	#34710.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



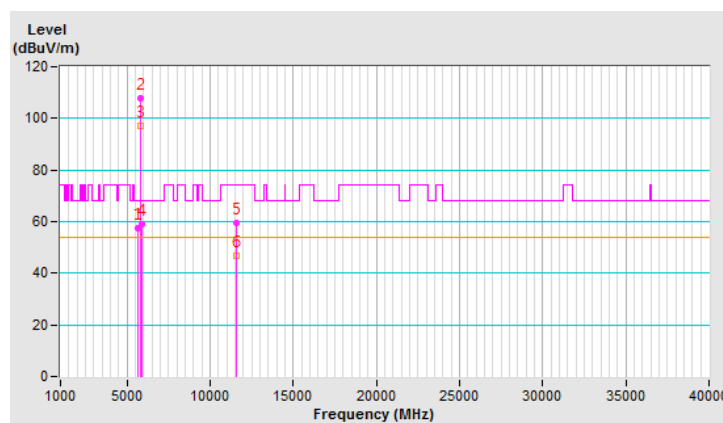
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157：5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5641.70	57.49 PK	68.20	-10.71	1.55 V	99	50.01	7.48
2	*5785.00	107.83 PK			1.55 V	99	100.09	7.74
3	*5785.00	96.97 AV			1.55 V	99	89.23	7.74
4	#5932.90	58.97 PK	68.20	-9.23	1.55 V	99	50.81	8.16
5	11570.00	59.64 PK	74.00	-14.36	2.14 V	105	41.66	17.98
6	11570.00	46.72 AV	54.00	-7.28	2.14 V	105	28.74	17.98
7	#17355.00	-	-	-	-	-	-	-
8	#23140.00	-	-	-	-	-	-	-
9	#28925.00	-	-	-	-	-	-	-
10	#34710.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

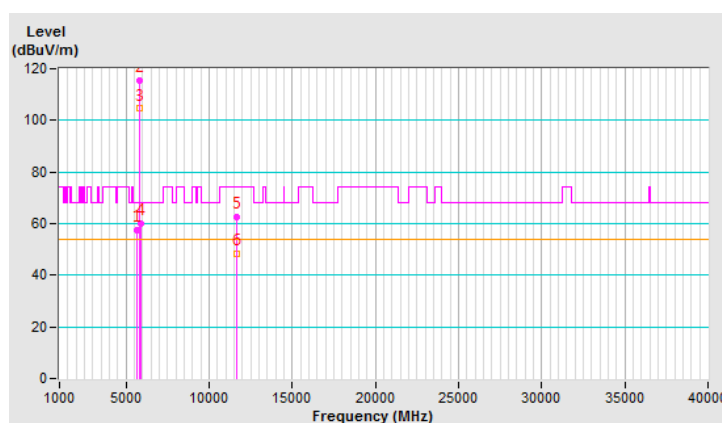


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5623.66	57.45 PK	68.20	-10.75	2.48 H	188	49.89	7.56
2	*5825.00	115.44 PK			2.48 H	188	107.52	7.92
3	*5825.00	104.51 AV			2.48 H	188	96.59	7.92
4	#5926.26	60.06 PK	68.20	-8.14	2.48 H	188	51.88	8.18
5	11650.00	62.68 PK	74.00	-11.32	1.64 H	250	44.96	17.72
6	11650.00	48.31 AV	54.00	-5.69	1.64 H	250	30.59	17.72
7	#17475.00	-	-	-	-	-	-	-
8	#23300.00	-	-	-	-	-	-	-
9	#29125.00	-	-	-	-	-	-	-
10	#34950.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



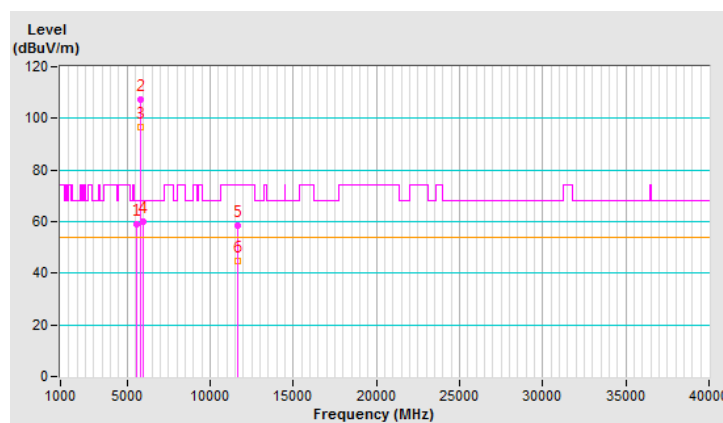
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5594.12	58.93 PK	68.20	-9.27	1.53 V	102	51.26	7.67
2	*5825.00	107.50 PK			1.53 V	102	99.58	7.92
3	*5825.00	96.59 AV			1.53 V	102	88.67	7.92
4	#5947.11	59.84 PK	68.20	-8.36	1.53 V	102	51.72	8.12
5	11650.00	58.41 PK	74.00	-15.59	2.20 V	110	40.69	17.72
6	11650.00	44.90 AV	54.00	-9.10	2.20 V	110	27.18	17.72
7	#17475.00	-	-	-	-	-	-	-
8	#23300.00	-	-	-	-	-	-	-
9	#29125.00	-	-	-	-	-	-	-
10	#34950.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



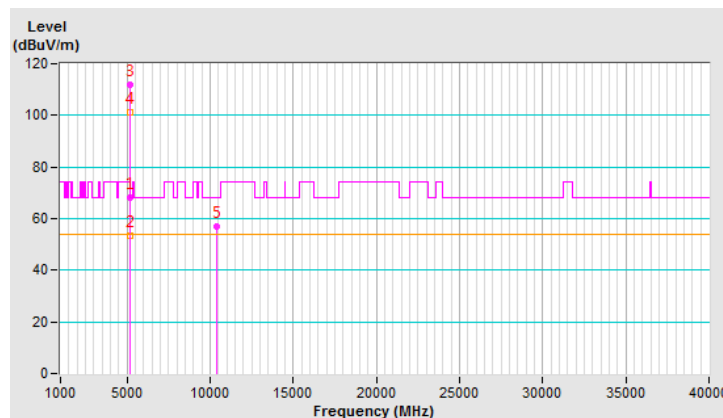
802.11ac (20MHz)

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.09 PK	74.00	-5.91	2.86 H	189	60.88	7.21
2	5150.00	53.33 AV	54.00	-0.67	2.86 H	189	46.12	7.21
3	*5180.00	111.76 PK			2.86 H	189	104.51	7.25
4	*5180.00	101.40 AV			2.86 H	189	94.15	7.25
5	#10360.00	56.81 PK	68.20	-11.39	1.88 H	200	39.67	17.14
6	15540.00	-	-	-	-	-	-	-
7	20720.00	-	-	-	-	-	-	-
8	#25900.00	-	-	-	-	-	-	-
9	#31080.00	-	-	-	-	-	-	-
10	#36260.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



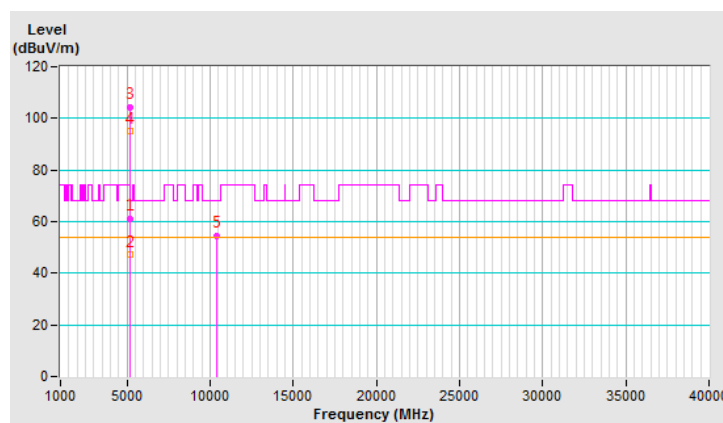
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.96 PK	74.00	-13.04	1.50 V	103	53.75	7.21
2	5150.00	47.06 AV	54.00	-6.94	1.50 V	103	39.85	7.21
3	*5180.00	104.40 PK			1.50 V	103	97.15	7.25
4	*5180.00	94.87 AV			1.50 V	103	87.62	7.25
5	#10360.00	54.28 PK	68.20	-13.92	2.41 V	158	37.14	17.14
6	15540.00	-	-	-	-	-	-	-
7	20720.00	-	-	-	-	-	-	-
8	#25900.00	-	-	-	-	-	-	-
9	#31080.00	-	-	-	-	-	-	-
10	#36260.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

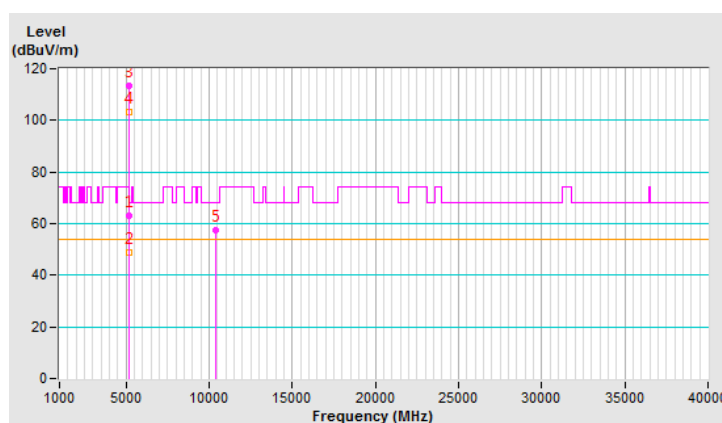


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.95 PK	74.00	-11.05	2.84 H	188	55.74	7.21
2	5150.00	48.80 AV	54.00	-5.20	2.84 H	188	41.59	7.21
3	*5200.00	113.51 PK			2.84 H	188	106.25	7.26
4	*5200.00	103.28 AV			2.84 H	188	96.02	7.26
5	#10400.00	57.55 PK	68.20	-10.65	1.96 H	256	40.21	17.34
6	15600.00	-	-	-	-	-	-	-
7	20800.00	-	-	-	-	-	-	-
8	#26000.00	-	-	-	-	-	-	-
9	31200.00	-	-	-	-	-	-	-
10	#36400.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



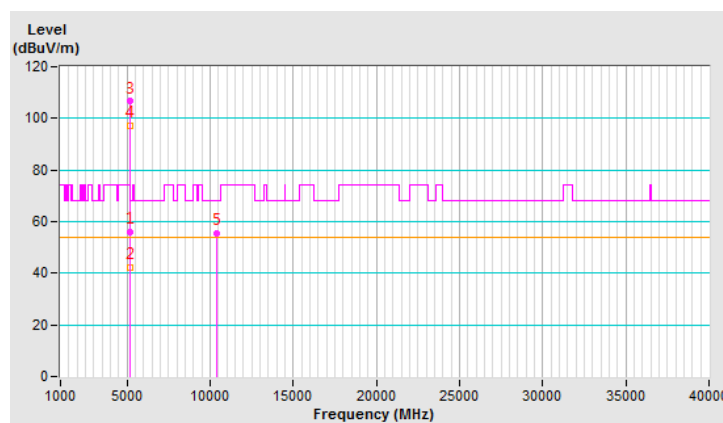
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.00 PK	74.00	-18.00	1.49 V	108	48.79	7.21
2	5150.00	42.17 AV	54.00	-11.83	1.49 V	108	34.96	7.21
3	*5200.00	106.58 PK			1.49 V	108	99.32	7.26
4	*5200.00	97.24 AV			1.49 V	108	89.98	7.26
5	#10400.00	55.59 PK	68.20	-12.61	2.43 V	162	38.25	17.34
6	15600.00	-	-	-	-	-	-	-
7	20800.00	-	-	-	-	-	-	-
8	#26000.00	-	-	-	-	-	-	-
9	31200.00	-	-	-	-	-	-	-
10	#36400.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

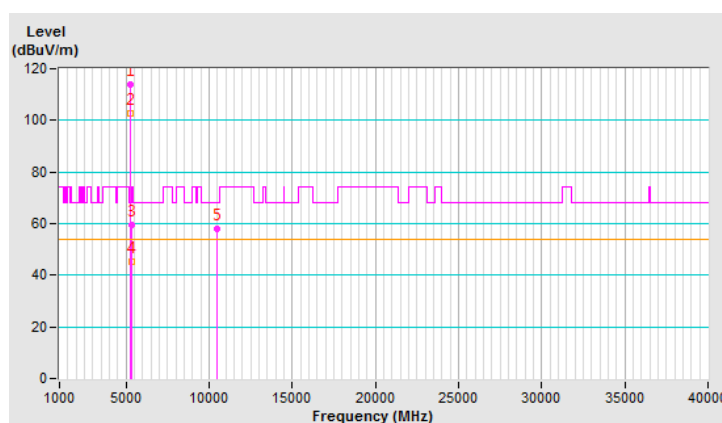


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	114.07 PK			2.77 H	189	107.11	6.96
2	*5240.00	102.77 AV			2.77 H	189	95.81	6.96
3	5350.00	59.50 PK	74.00	-14.50	2.77 H	189	52.13	7.37
4	5350.00	45.46 AV	54.00	-8.54	2.77 H	189	38.09	7.37
5	#10480.00	58.22 PK	68.20	-9.98	1.89 H	156	40.52	17.70
6	15720.00	-	-	-	-	-	-	-
7	20960.00	-	-	-	-	-	-	-
8	#26200.00	-	-	-	-	-	-	-
9	31440.00	-	-	-	-	-	-	-
10	#36680.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



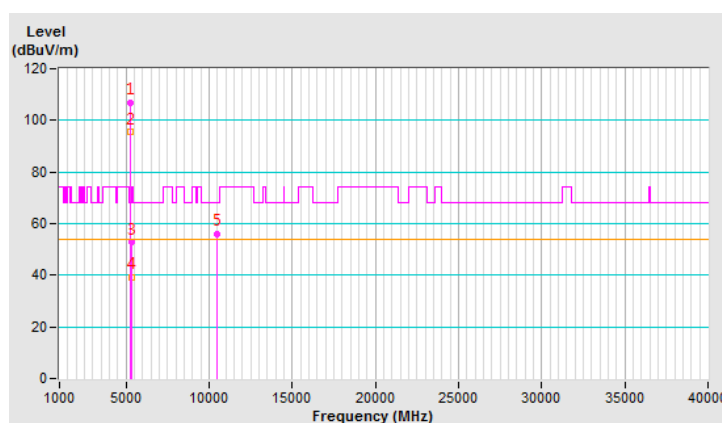
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	106.99 PK			1.52 V	111	100.03	6.96
2	*5240.00	95.42 AV			1.52 V	111	88.46	6.96
3	5350.00	52.69 PK	74.00	-21.31	1.52 V	111	45.32	7.37
4	5350.00	39.22 AV	54.00	-14.78	1.52 V	111	31.85	7.37
5	#10480.00	55.87 PK	68.20	-12.33	2.42 V	163	38.17	17.70
6	15720.00	-	-	-	-	-	-	-
7	20960.00	-	-	-	-	-	-	-
8	#26200.00	-	-	-	-	-	-	-
9	31440.00	-	-	-	-	-	-	-
10	#36680.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

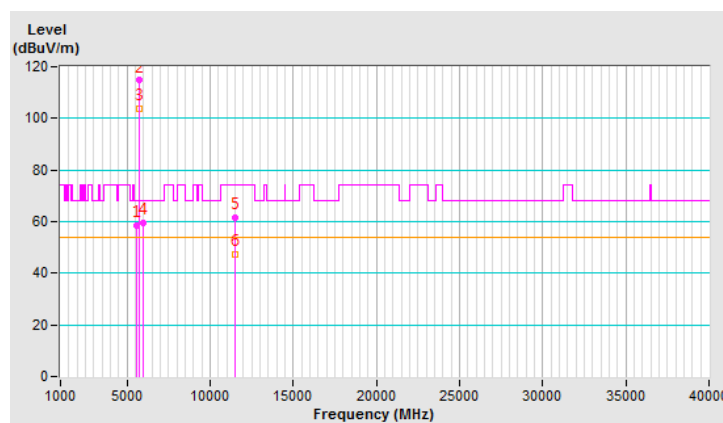


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.74	58.42 PK	68.20	-9.78	2.39 H	185	50.82	7.60
2	*5745.00	114.71 PK			2.39 H	185	107.12	7.59
3	*5745.00	103.77 AV			2.39 H	185	96.18	7.59
4	#5958.95	59.33 PK	68.20	-8.87	2.39 H	185	51.22	8.11
5	11490.00	61.51 PK	74.00	-12.49	1.63 H	252	43.44	18.07
6	11490.00	47.33 AV	54.00	-6.67	1.63 H	252	29.26	18.07
7	#17235.00	-	-	-	-	-	-	-
8	22980.00	-	-	-	-	-	-	-
9	#28725.00	-	-	-	-	-	-	-
10	#34470.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

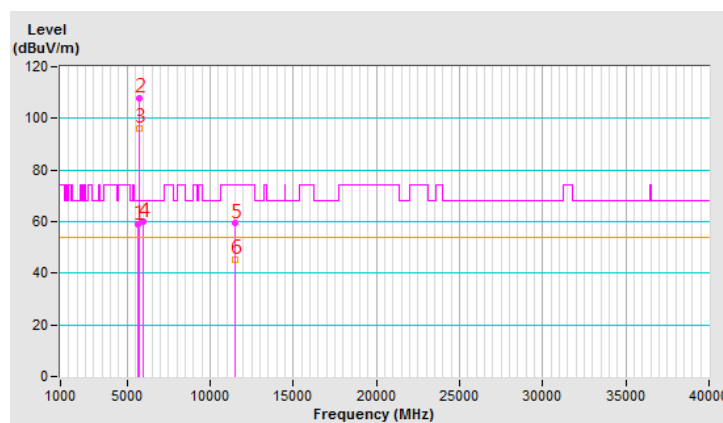


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5625.32	58.81 PK	68.20	-9.39	1.56 V	104	51.26	7.55
2	*5745.00	107.84 PK			1.56 V	104	100.25	7.59
3	*5745.00	96.35 AV			1.56 V	104	88.76	7.59
4	#5941.95	59.81 PK	68.20	-8.39	1.56 V	104	51.69	8.12
5	11490.00	59.32 PK	74.00	-14.68	2.18 V	107	41.25	18.07
6	11490.00	45.21 AV	54.00	-8.79	2.18 V	107	27.14	18.07
7	#17235.00	-	-	-	-	-	-	-
8	22980.00	-	-	-	-	-	-	-
9	#28725.00	-	-	-	-	-	-	-
10	#34470.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

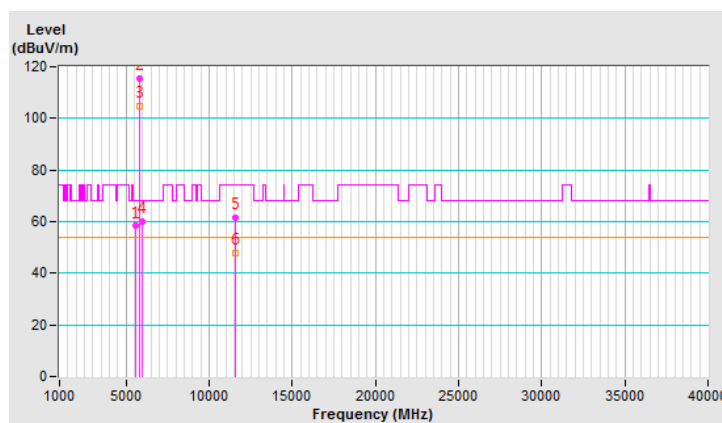


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157：5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5614.20	58.24 PK	68.20	-9.96	2.40 H	188	50.63	7.61
2	*5785.00	115.43 PK			2.40 H	188	107.69	7.74
3	*5785.00	104.62 AV			2.40 H	188	96.88	7.74
4	#5950.00	59.86 PK	68.20	-8.34	2.40 H	188	51.75	8.11
5	11570.00	61.69 PK	74.00	-12.31	1.66 H	248	43.71	17.98
6	11570.00	47.83 AV	54.00	-6.17	1.66 H	248	29.85	17.98
7	#17355.00	-	-	-	-	-	-	-
8	#23140.00	-	-	-	-	-	-	-
9	#28925.00	-	-	-	-	-	-	-
10	#34710.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

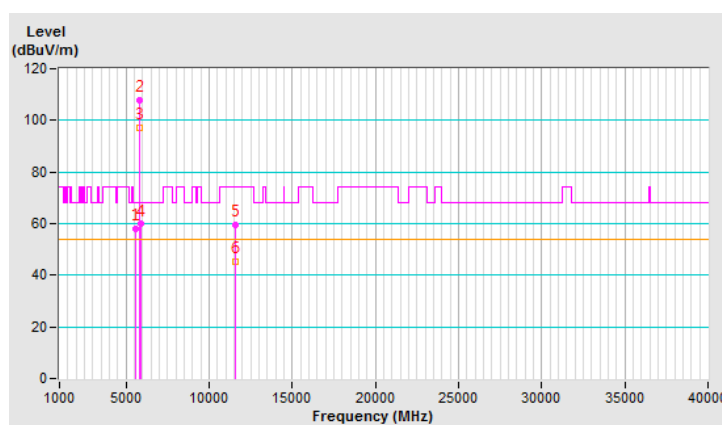


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157：5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5615.34	58.08 PK	68.20	-10.12	1.47 V	85	50.48	7.60
2	*5785.00	107.88 PK			1.47 V	85	100.14	7.74
3	*5785.00	97.10 AV			1.47 V	85	89.36	7.74
4	#5930.56	59.77 PK	68.20	-8.43	1.47 V	85	51.62	8.15
5	11570.00	59.53 PK	74.00	-14.47	2.15 V	112	41.55	17.98
6	11570.00	45.42 AV	54.00	-8.58	2.15 V	112	27.44	17.98
7	#17355.00	-	-	-	-	-	-	-
8	#23140.00	-	-	-	-	-	-	-
9	#28925.00	-	-	-	-	-	-	-
10	#34710.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

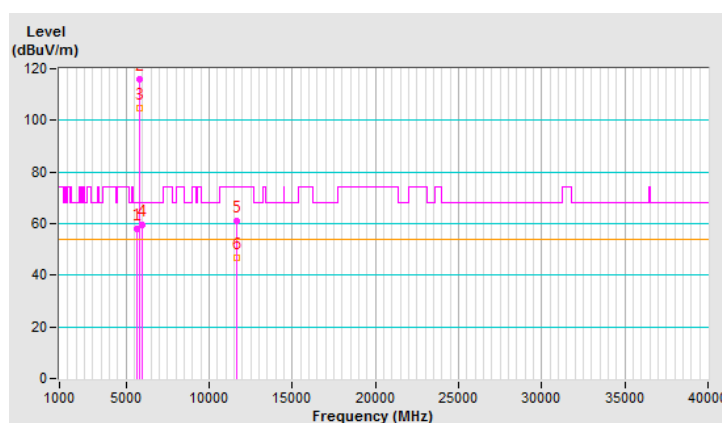


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.80	58.05 PK	68.20	-10.15	2.39 H	189	50.59	7.46
2	*5825.00	115.80 PK			2.39 H	189	107.88	7.92
3	*5825.00	104.70 AV			2.39 H	189	96.78	7.92
4	#5944.19	59.38 PK	68.20	-8.82	2.39 H	189	51.25	8.13
5	11650.00	60.98 PK	74.00	-13.02	1.65 H	243	43.26	17.72
6	11650.00	46.89 AV	54.00	-7.11	1.65 H	243	29.17	17.72
7	#17475.00	-	-	-	-	-	-	-
8	#23300.00	-	-	-	-	-	-	-
9	#29125.00	-	-	-	-	-	-	-
10	#34950.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



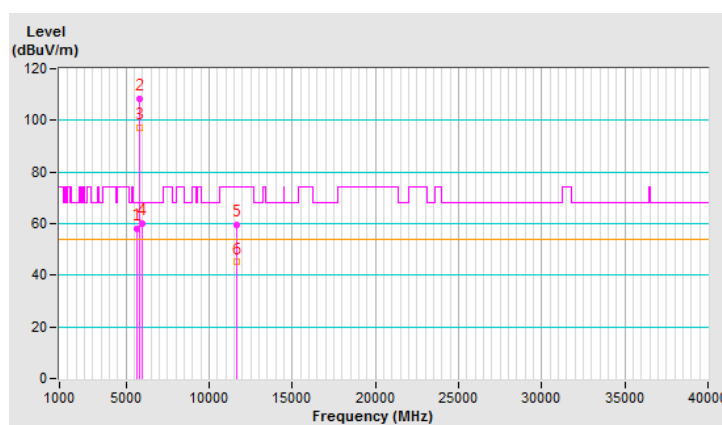
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5634.37	57.96 PK	68.20	-10.24	1.44 V	97	50.46	7.50
2	*5825.00	108.15 PK			1.44 V	97	100.23	7.92
3	*5825.00	97.03 AV			1.44 V	97	89.11	7.92
4	#5957.18	59.84 PK	68.20	-8.36	1.44 V	97	51.73	8.11
5	11650.00	59.57 PK	74.00	-14.43	2.23 V	107	41.85	17.72
6	11650.00	45.06 AV	54.00	-8.94	2.23 V	107	27.34	17.72
7	#17475.00	-	-	-	-	-	-	-
8	#23300.00	-	-	-	-	-	-	-
9	#29125.00	-	-	-	-	-	-	-
10	#34950.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



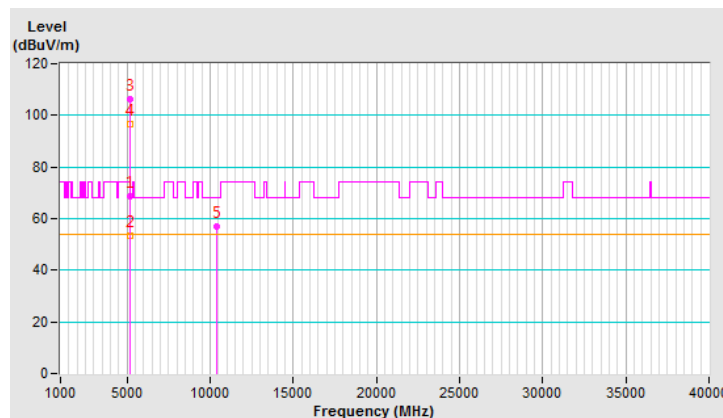
802.11ac (40MHz)

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 38 : 5190 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.71 PK	74.00	-5.29	2.87 H	187	61.50	7.21
2	5150.00	53.44 AV	54.00	-0.56	2.87 H	187	46.23	7.21
3	*5190.00	106.42 PK			2.87 H	187	99.17	7.25
4	*5190.00	96.73 AV			2.87 H	187	89.48	7.25
5	#10380.00	56.88 PK	68.20	-11.32	1.79 H	251	39.64	17.24
6	15570.00	-	-	-	-	-	-	-
7	20760.00	-	-	-	-	-	-	-
8	#25950.00	-	-	-	-	-	-	-
9	#31140.00	-	-	-	-	-	-	-
10	#36330.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



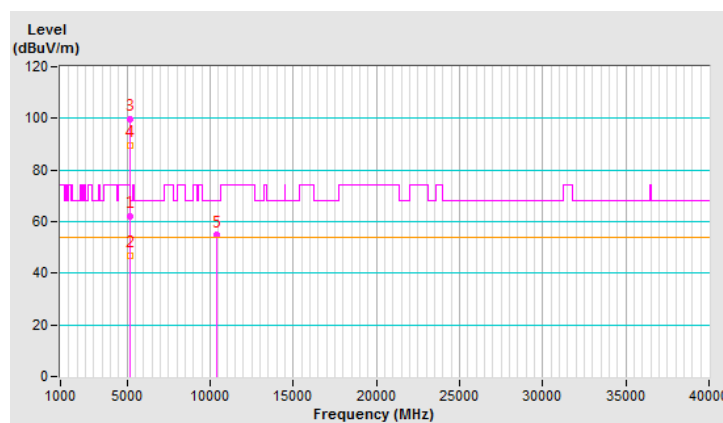
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 38：5190 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.92 PK	74.00	-12.08	1.54 V	96	54.71	7.21
2	5150.00	46.77 AV	54.00	-7.23	1.54 V	96	39.56	7.21
3	*5190.00	99.69 PK			1.54 V	96	92.44	7.25
4	*5190.00	89.58 AV			1.54 V	96	82.33	7.25
5	#10380.00	54.69 PK	68.20	-13.51	2.35 V	158	37.45	17.24
6	15570.00	-	-	-	-	-	-	-
7	20760.00	-	-	-	-	-	-	-
8	#25950.00	-	-	-	-	-	-	-
9	#31140.00	-	-	-	-	-	-	-
10	#36330.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

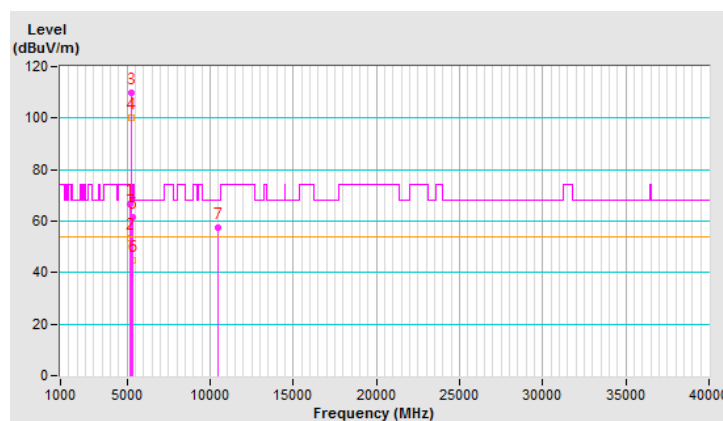


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.82 PK	74.00	-7.18	2.83 H	188	59.61	7.21
2	5150.00	53.55 AV	54.00	-0.45	2.83 H	188	46.34	7.21
3	*5230.00	109.97 PK			2.83 H	188	102.93	7.04
4	*5230.00	100.05 AV			2.83 H	188	93.01	7.04
5	5350.00	61.36 PK	74.00	-12.64	2.83 H	188	53.99	7.37
6	5350.00	44.97 AV	54.00	-9.03	2.83 H	188	37.60	7.37
7	#10460.00	57.46 PK	68.20	-10.74	1.52 H	263	39.85	17.61
8	15690.00	-	-	-	-	-	-	-
9	20920.00	-	-	-	-	-	-	-
10	#26150.00	-	-	-	-	-	-	-
11	31380.00	-	-	-	-	-	-	-
12	#36610.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



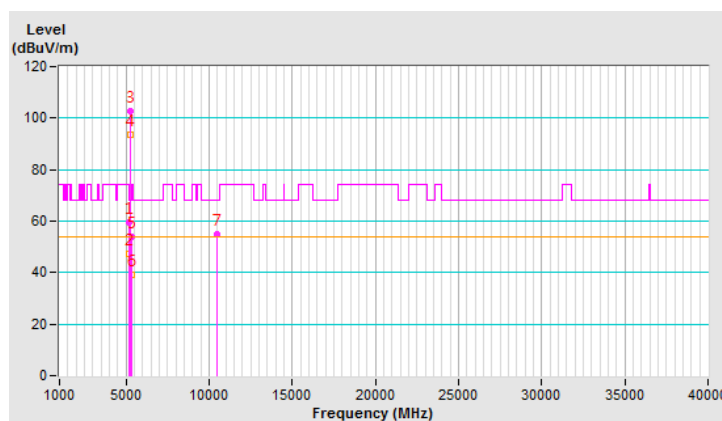
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.35 PK	74.00	-14.65	1.53 V	101	52.14	7.21
2	5150.00	47.17 AV	54.00	-6.83	1.53 V	101	39.96	7.21
3	*5230.00	102.59 PK			1.53 V	101	95.55	7.04
4	*5230.00	93.51 AV			1.53 V	101	86.47	7.04
5	5350.00	53.98 PK	74.00	-20.02	1.53 V	101	46.61	7.37
6	5350.00	39.22 AV	54.00	-14.78	1.53 V	101	31.85	7.37
7	#10460.00	55.09 PK	68.20	-13.11	2.38 V	155	37.48	17.61
8	15690.00	-	-	-	-	-	-	-
9	20920.00	-	-	-	-	-	-	-
10	#26150.00	-	-	-	-	-	-	-
11	31380.00	-	-	-	-	-	-	-
12	#36610.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

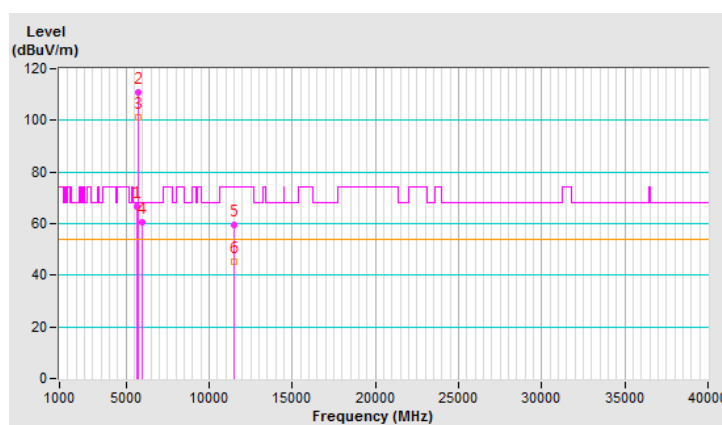


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5649.69	66.74 PK	68.20	-1.46	2.49 H	182	59.30	7.44
2	*5755.00	111.08 PK			2.49 H	182	103.47	7.61
3	*5755.00	101.23 AV			2.49 H	182	93.62	7.61
4	#5942.94	60.55 PK	68.20	-7.65	2.49 H	182	52.43	8.12
5	11510.00	59.38 PK	74.00	-14.62	1.69 H	252	41.29	18.09
6	11510.00	45.45 AV	54.00	-8.55	1.69 H	252	27.36	18.09
7	#17265.00	-	-	-	-	-	-	-
8	23020.00	-	-	-	-	-	-	-
9	#28775.00	-	-	-	-	-	-	-
10	#34530.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



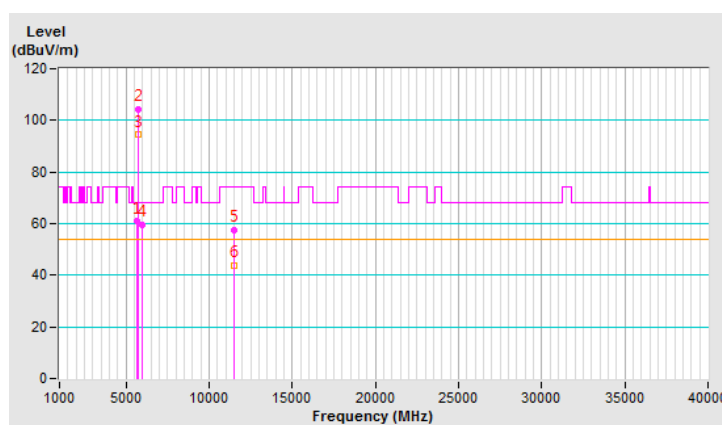
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.29	60.77 PK	68.20	-7.43	1.53 V	85	53.32	7.45
2	*5755.00	104.46 PK			1.53 V	85	96.85	7.61
3	*5755.00	94.35 AV			1.53 V	85	86.74	7.61
4	#5942.97	59.49 PK	68.20	-8.71	1.53 V	85	51.37	8.12
5	11510.00	57.65 PK	74.00	-16.35	2.18 V	110	39.56	18.09
6	11510.00	43.97 AV	54.00	-10.03	2.18 V	110	25.88	18.09
7	#17265.00	-	-	-	-	-	-	-
8	23020.00	-	-	-	-	-	-	-
9	#28775.00	-	-	-	-	-	-	-
10	#34530.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



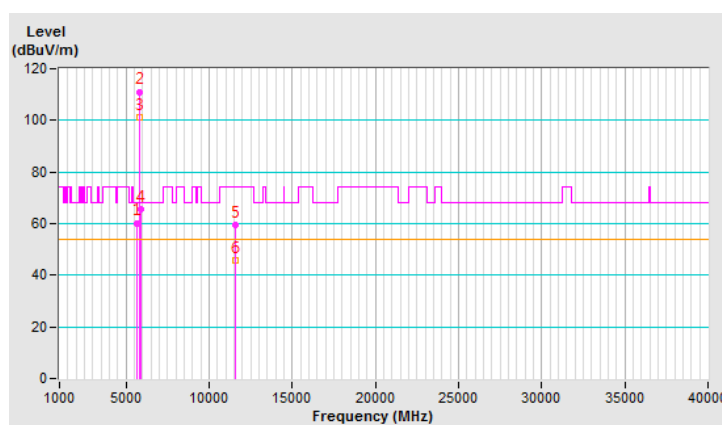
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159：5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5633.22	59.98 PK	68.20	-8.22	2.40 H	189	52.47	7.51
2	*5795.00	111.05 PK			2.40 H	189	103.26	7.79
3	*5795.00	100.94 AV			2.40 H	189	93.15	7.79
4	#5927.97	65.35 PK	68.20	-2.85	2.40 H	189	57.19	8.16
5	11590.00	59.32 PK	74.00	-14.68	1.68 H	251	41.38	17.94
6	11590.00	45.59 AV	54.00	-8.41	1.68 H	251	27.65	17.94
7	#17385.00	-	-	-	-	-	-	-
8	#23180.00	-	-	-	-	-	-	-
9	#28975.00	-	-	-	-	-	-	-
10	#34770.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
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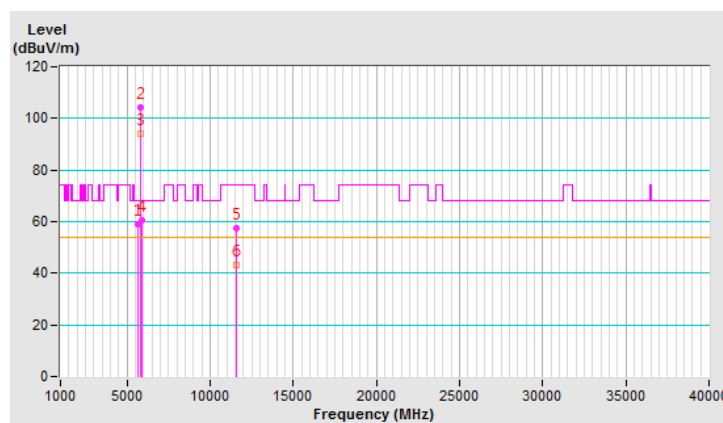
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159：5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5622.57	59.09 PK	68.20	-9.11	1.55 V	99	51.53	7.56
2	*5795.00	104.26 PK			1.55 V	99	96.47	7.79
3	*5795.00	94.31 AV			1.55 V	99	86.52	7.79
4	#5925.46	60.35 PK	68.20	-7.85	1.55 V	99	52.17	8.18
5	11590.00	57.39 PK	74.00	-16.61	2.24 V	114	39.45	17.94
6	11590.00	43.07 AV	54.00	-10.93	2.24 V	114	25.13	17.94
7	#17385.00	-	-	-	-	-	-	-
8	#23180.00	-	-	-	-	-	-	-
9	#28975.00	-	-	-	-	-	-	-
10	#34770.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



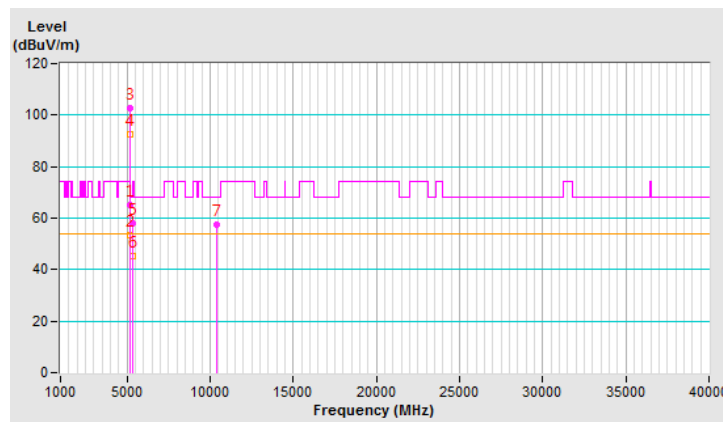
802.11ac (80MHz)

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 42：5210 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 10 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.30 PK	74.00	-8.70	2.66 H	188	58.09	7.21
2	5150.00	53.29 AV	54.00	-0.71	2.66 H	188	46.08	7.21
3	*5210.00	102.68 PK			2.66 H	188	95.50	7.18
4	*5210.00	92.54 AV			2.66 H	188	85.36	7.18
5	5350.00	57.96 PK	74.00	-16.04	2.66 H	188	50.59	7.37
6	5350.00	45.29 AV	54.00	-8.71	2.66 H	188	37.92	7.37
7	#10420.00	57.30 PK	68.20	-10.90	1.85 H	164	39.87	17.43
8	15630.00	-	-	-	-	-	-	-
9	20840.00	-	-	-	-	-	-	-
10	#26050.00	-	-	-	-	-	-	-
11	31260.00	-	-	-	-	-	-	-
12	36470.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



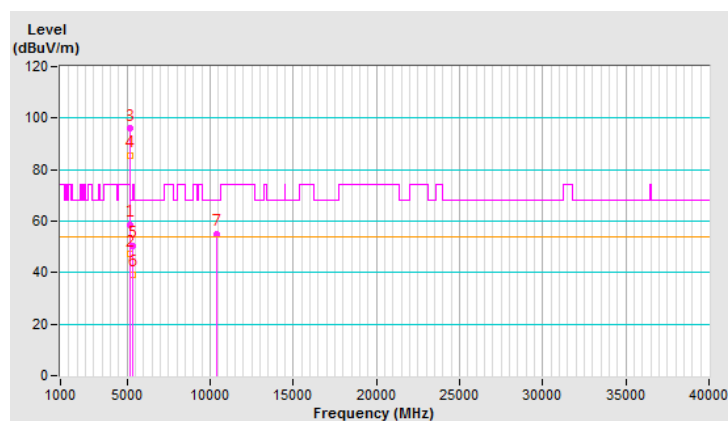
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 42：5210 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.66 PK	74.00	-15.34	1.53 V	104	51.45	7.21
2	5150.00	47.07 AV	54.00	-6.93	1.53 V	104	39.86	7.21
3	*5210.00	95.93 PK			1.53 V	104	88.75	7.18
4	*5210.00	85.44 AV			1.53 V	104	78.26	7.18
5	5350.00	50.58 PK	74.00	-23.42	1.53 V	104	43.21	7.37
6	5350.00	39.33 AV	54.00	-14.67	1.53 V	104	31.96	7.37
7	#10420.00	54.85 PK	68.20	-13.35	2.40 V	156	37.42	17.43
8	15630.00	-	-	-	-	-	-	-
9	20840.00	-	-	-	-	-	-	-
10	#26050.00	-	-	-	-	-	-	-
11	31260.00	-	-	-	-	-	-	-
12	36470.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

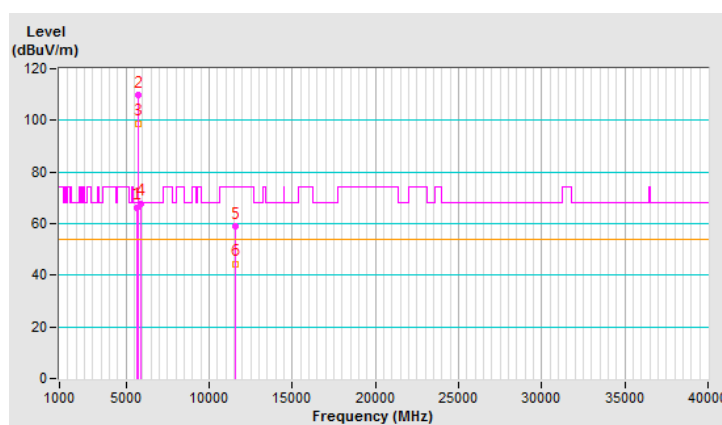


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 155：5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5625.96	66.22 PK	68.20	-1.98	2.91 H	226	58.67	7.55
2	*5775.00	109.66 PK			2.91 H	226	101.96	7.70
3	*5775.00	98.57 AV			2.91 H	226	90.87	7.70
4	#5925.83	67.70 PK	68.20	-0.50	2.91 H	226	59.52	8.18
5	11550.00	58.77 PK	74.00	-15.23	1.60 H	243	40.75	18.02
6	11550.00	44.49 AV	54.00	-9.51	1.60 H	243	26.47	18.02
7	#17325.00	-	-	-	-	-	-	-
8	23100.00	-	-	-	-	-	-	-
9	#28875.00	-	-	-	-	-	-	-
10	#34650.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

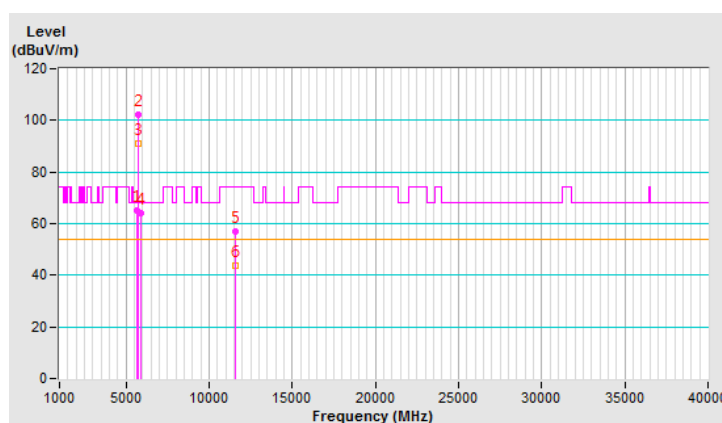


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 155 : 5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5651.01	65.19 PK	68.20	-3.01	1.68 V	121	57.76	7.43
2	*5775.00	102.33 PK			1.68 V	121	94.63	7.70
3	*5775.00	90.87 AV			1.68 V	121	83.17	7.70
4	#5926.27	64.08 PK	68.20	-4.12	1.68 V	121	55.90	8.18
5	11550.00	57.16 PK	74.00	-16.84	2.30 V	116	39.14	18.02
6	11550.00	43.90 AV	54.00	-10.10	2.30 V	116	25.88	18.02
7	#17325.00	-	-	-	-	-	-	-
8	23100.00	-	-	-	-	-	-	-
9	#28875.00	-	-	-	-	-	-	-
10	#34650.00	-	-	-	-	-	-	-

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



9.6.2 接收諧波

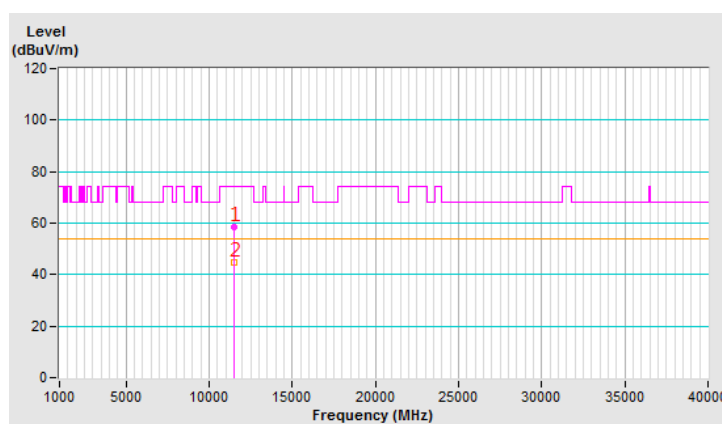
802.11a

操作模式：	接收		
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11490.00	58.60 PK	74.00	-15.40	2.14 H	176	40.53	18.07
2	11490.00	44.95 AV	54.00	-9.05	2.14 H	176	26.88	18.07

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

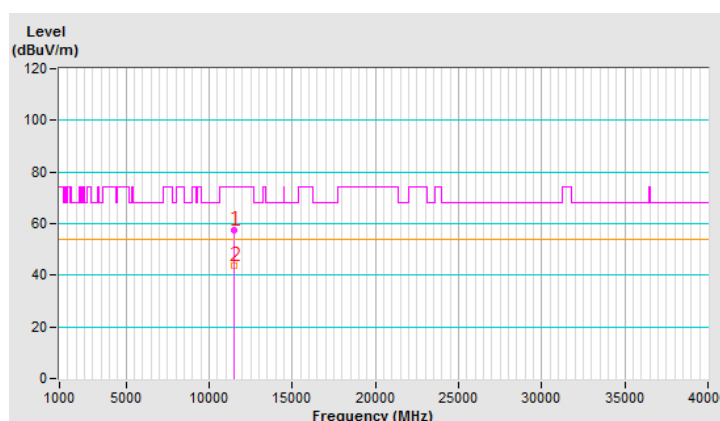


操 作 模 式 :	接收		
基 本 波 頻 率 :	CH 149 : 5745 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度 :	23°C	量測場地濕度 :	65%RH
測 試 日 期 :	108 年 5 月 11 日	測 試 者 :	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11490.00	57.24 PK	74.00	-16.76	1.47 V	258	39.17	18.07
2	11490.00	43.50 AV	54.00	-10.50	1.47 V	258	25.43	18.07

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.



9.6.3 其它不必要之訊號

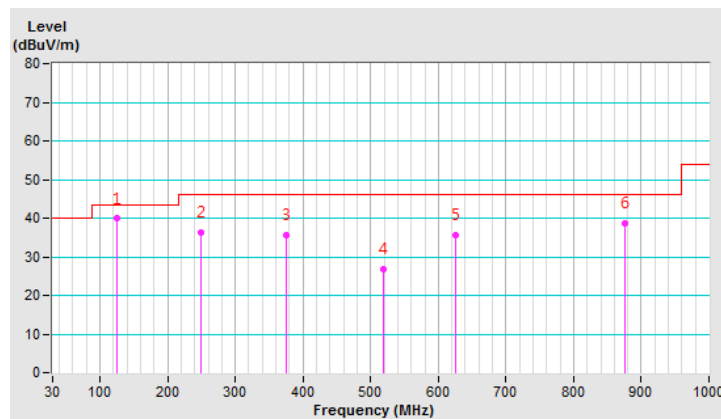
802.11a

操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	125.01	39.87 QP	43.50	-3.63	1.85 H	110	48.43	-8.56
2	250.00	36.43 QP	46.00	-9.57	1.00 H	219	43.38	-6.95
3	375.03	35.63 QP	46.00	-10.37	2.68 H	332	39.33	-3.70
4	519.12	26.86 QP	46.00	-19.14	3.08 H	329	27.85	-0.99
5	625.00	35.60 QP	46.00	-10.40	3.33 H	144	34.04	1.56
6	875.02	38.67 QP	46.00	-7.33	1.00 H	360	32.97	5.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



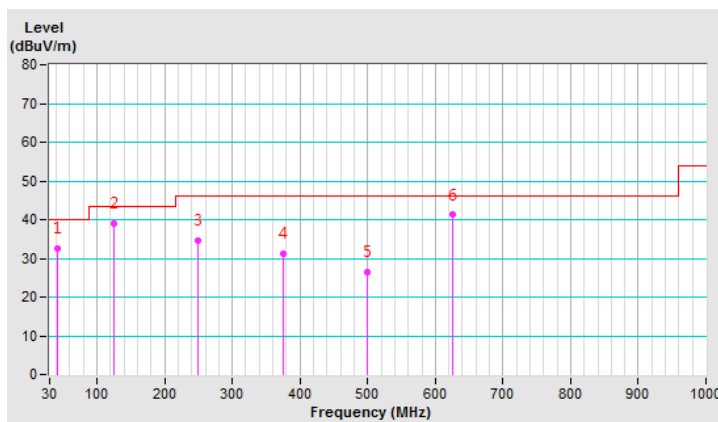
操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 5 月 11 日	測試者：	張君煌

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	40.86	32.66 QP	40.00	-7.34	1.00 V	280	40.23	-7.57
2	125.01	39.00 QP	43.50	-4.50	1.96 V	70	47.56	-8.56
3	250.00	34.70 QP	46.00	-11.30	2.58 V	72	41.65	-6.95
4	374.98	31.30 QP	46.00	-14.70	3.69 V	216	35.00	-3.70
5	500.06	26.60 QP	46.00	-19.40	1.59 V	287	27.87	-1.27
6	625.00	41.23 QP	46.00	-4.77	3.57 V	99	39.67	1.56

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



9.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

9.8 輻射量測之配置照片

請參照 Test Setup Photos

10 電源線傳導干擾之量測

10.1 適用標準

請見本報告 3.1 節第 1 項的規定。

10.2 量測方法

將待測物置於 0.8 米高的非金屬桌面，使其操作在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由 0.15 MHz 至 30 MHz 之間之電源線傳導放射強度。

10.3 量測儀器

同 5.3 節

10.4 測試配置

同 5.4 節

10.5 干擾值之計算

餘裕度 Margin(dB)= 結果值 Emission level (dBuV)-限制值 Limit value (dBuV)

電源傳導干擾電壓之計算公式如下

結果值 Emission level (dBuV)=校正因子 Correction Factor (dB)+儀器讀值 Reading value (dBuV)

其中校正因子 Correction Factor (dB)為：

饋線損失+電源阻抗模擬網路損失

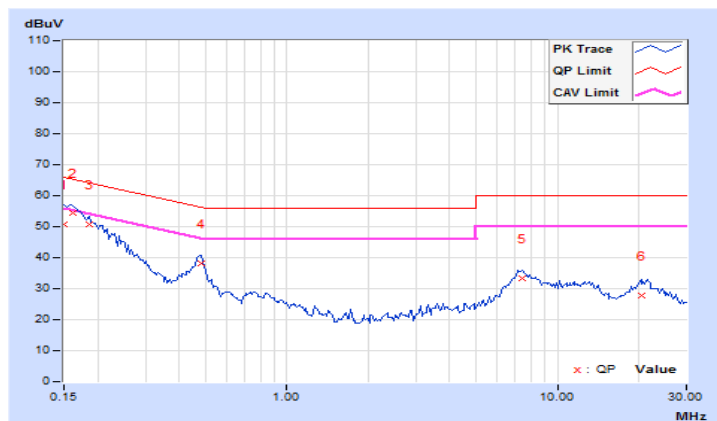
10.6 量測結果

操作模式	發射	測試日期	108 年 6 月 13 日
基本波頻率	CH 149: 5745MHz	量測場地溫度	23°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	何欣儒		

		6 dB Bandwidth: 9kHz				PHASE: LINE (L)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15000	10.03	40.74	22.96	50.77	32.99	66.00	56.00	-15.23	-23.01
0.16172	10.03	44.23	29.37	54.26	39.40	65.38	55.38	-11.12	-15.98
0.18516	10.04	40.64	25.59	50.68	35.63	64.25	54.25	-13.57	-18.62
0.48203	10.09	28.10	22.50	38.19	32.59	56.30	46.30	-18.11	-13.71
7.41797	10.54	22.72	17.52	33.26	28.06	60.00	50.00	-26.74	-21.94
20.41406	11.37	16.49	11.03	27.86	22.40	60.00	50.00	-32.14	-27.60

NOTE:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

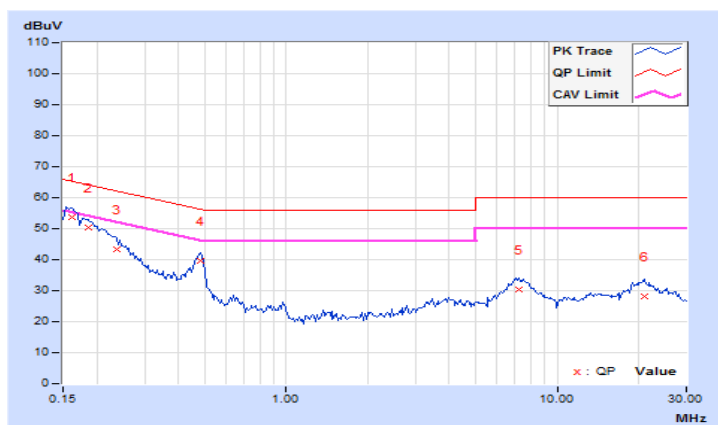


操作模式	發射	測試日期	108 年 6 月 13 日
基本波頻率	CH 149: 5745MHz	量測場地溫度	23°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	何欣儒		

		6 dB Bandwidth: 9kHz				PHASE: NEUTRAL (N)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.16172	9.94	43.71	26.58	53.65	36.52	65.38	55.38	-11.73	-18.86
0.18516	9.95	40.31	22.46	50.26	32.41	64.25	54.25	-13.99	-21.84
0.23594	9.96	33.23	18.05	43.19	28.01	62.24	52.24	-19.05	-24.23
0.48203	9.98	29.75	24.67	39.73	34.65	56.30	46.30	-16.57	-11.65
7.24219	10.36	20.01	13.12	30.37	23.48	60.00	50.00	-29.63	-26.52
21.07422	11.16	16.92	11.42	28.08	22.58	60.00	50.00	-31.92	-27.42

NOTE:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



Note: The test, calibration and test results are compliance with the TAF (Certificate # 2022)

10.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

10.8 配置照片

請參照 Test Setup Photos

11 傳導輸出功率量測及發射頻寬之要求

11.1 適用標準

待測物操作頻帶	適用標準
☒ 5.15 GHz~5.25 GHz	請見本報告 3.1 節第 6 項(II)及 4 項(II)的規定
☐ 5.25 GHz~5.35 GHz	請見本報告 3.1 節第 6 項(III)及 4 項(III)的規定
☐ 5.470 GHz~5.725 GHz	請見本報告 3.1 節第 6 項(III)及 4 項(III)的規定
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 6 項(IV)及 4 項(IV)的規定

11.2 量測方法

傳導輸出功率量測方法：

- 將待測物輸出經由衰減器接到功率計上。
- 設定待測物處於連續發射狀態。
- 計算其最大傳導輸出功率。

對於發射的頻道其中心頻率點低於 5.725GHz, 但其發射頻寬跨越至 5725~5850 MHz 頻帶：

- 將待測物輸出接到頻譜分析儀上。
- 設定待測物處於連續發射狀態。
- 設定頻譜掃瞄寬為 26dB occupied bandwidth。
- 設置解析頻寬為 1MHz, 視訊頻寬為 3 倍的解析頻寬。
- 設置測試掃瞄點數要大於 2 倍的(span/RBW)。
- 設置檢波器為 RMS。
- 設置掃瞄時間為 auto。
- 設置 Trigger 模式為 free run (當 Duty cycle 大於 98%)；設置 Trigger 模式為 Video trigger(當 Duty cycle 小於 98%)。
- 設置 Trace mode 為 average 至少 100 次。
- 待掃描結果穩定。
- 使用頻譜的內建 band power 功能,量測 26dB bandwidth 內最大功率值。

發射頻寬量測方法：

- 將待測物輸出經由衰減器接到頻譜分析儀上。
- 設定待測物處於連續發射狀態。
- 最大輸出功率峰值減 26dB 的最大頻率範圍。

11.3 量測儀器

峰值傳導輸出功率量測儀器：同 7.3 節

發射頻寬之量測儀器：同 6.3 節

11.4 測試配置

峰值傳導輸出功率測試配置：同 7.4 節

發射頻寬之測試配置：同 6.4 節

11.5 量測結果

操作模式	發射	測試日期	108 年 6 月 18 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

802.11a

Channel	Channel Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass/Fail
36	5180	147.231	21.68	24	PASS
40	5200	232.809	23.67	24	PASS
48	5240	240.991	23.82	24	PASS
149	5745	230.144	23.62	30	PASS
157	5785	216.272	23.35	30	PASS
165	5825	209.894	23.22	30	PASS

802.11ac (20MHz)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass/Fail
36	5180	110.408	20.43	24	PASS
40	5200	229.615	23.61	24	PASS
48	5240	228.034	23.58	24	PASS
149	5745	221.820	23.46	30	PASS
157	5785	217.771	23.38	30	PASS
165	5825	210.378	23.23	30	PASS

802.11ac (40MHz)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass/Fail
38	5190	78.705	18.96	24	PASS
46	5230	171.396	22.34	24	PASS
151	5755	224.905	23.52	30	PASS
159	5795	216.770	23.36	30	PASS

802.11ac (80MHz)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass/Fail
42	5210	85.310	19.31	24	PASS
155	5775	210.378	23.23	30	PASS

26dB Bandwidth:

802.11a

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)
36	5180	21.36
40	5200	36.25
48	5240	34.26

802.11ac (20MHz)

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)
36	5180	22.30
40	5200	37.49
48	5240	24.90

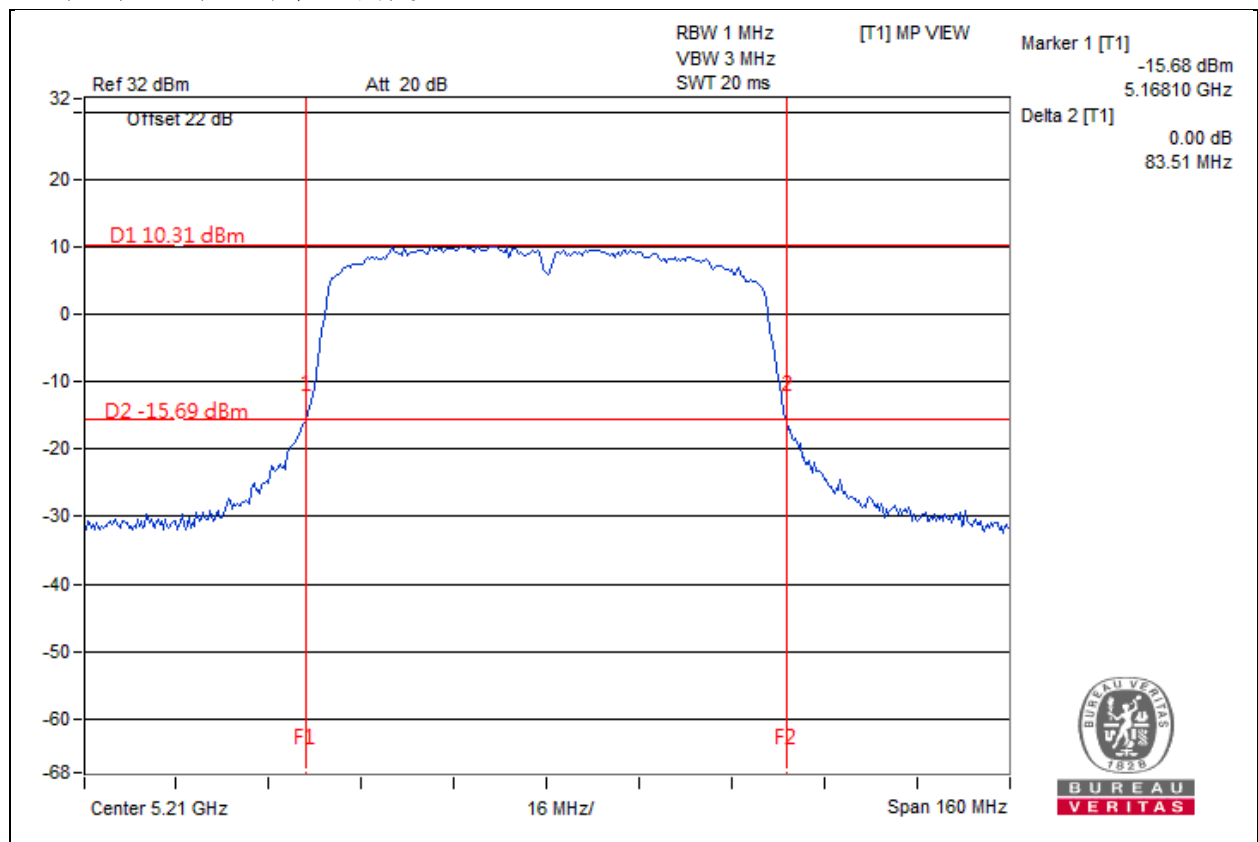
802.11ac (40MHz)

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)
38	5190	41.61
46	5230	74.43

802.11ac (80MHz)

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)
42	5210	83.51

**此測試圖僅放測試結果最差的頻道。



11.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

12 功率頻譜密度之量測

12.1 適用標準

	待測物操作頻帶	適用標準
☒	5.15 GHz~5.25 GHz	請見本報告 3.1 節第 7 項(II)及 4 項(II)的規定
☐	5.25 GHz~5.35 GHz	請見本報告 3.1 節第 7 項(III)及 4 項(III)的規定
☐	5.470 GHz~5.725 GHz	請見本報告 3.1 節第 7 項(III)及 4 項(III)的規定
☒	5.725 GHz~5.850 GHz	請見本報告 3.1 節第 7 項(IV)及 4 項(IV)的規定

12.2 量測方法

	待測物操作頻帶	KDB 789033 D02 量測方法	KDB 662911 D01 量測方法
☒	5.15 GHz~5.25 GHz	☒ SA-1 ☐ SA-1 alternative ☐ SA-2 ☐ SA-2 alternative ☐ SA-3 ☐ SA-3 alternative	☒ Section E)2)a) ☐ Section E)2)b) ☐ Section E)2)c)
☐	5.25 GHz~5.35 GHz	☒ SA-1 ☐ SA-1 alternative ☐ SA-2 ☐ SA-2 alternative ☐ SA-3 ☐ SA-3 alternative	☒ Section E)2)a) ☐ Section E)2)b) ☐ Section E)2)c)
☐	5.470 GHz~5.725 GHz	☒ SA-1 ☐ SA-1 alternative ☐ SA-2 ☐ SA-2 alternative ☐ SA-3 ☐ SA-3 alternative	☒ Section E)2)a) ☐ Section E)2)b) ☐ Section E)2)c)
☒	5.725 GHz~5.850 GHz	☒ SA-1 ☐ SA-1 alternative ☐ SA-2 ☐ SA-2 alternative ☐ SA-3 ☐ SA-3 alternative	☒ Section E)2)a) ☐ Section E)2)b) ☐ Section E)2)c)

For U-NII-1 band:

Using method SA-2:

- 1) Measure the duty cycle
- 2) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 3) Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = power averaging (rms)
- 4) Number of points in sweep $\geq 2 \times$ span/RBW.
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging (rms) mode.
- 7) Add $10 \log(1/\text{duty cycle})$ to the measured max value then record it.

For U-NII-3 band:

The following adjustments to above procedures apply:

- 1) When RBW=500 kHz is used:
Set RBW = 500 kHz, Set VBW ≥ 3 RBW.
- 2) When reduced resolution bandwidth (< 500 kHz) is used:
 - a) Set RBW $\geq 1/T$, where T refers to the minimum transmission duration over which the transmitter is on.
 - b) Set VBW ≥ 3 RBW
 - c) Add $10 \log(500 \text{ kHz}/\text{RBW})$ to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

12.3 量測功率頻譜密度之儀器

同 6.3 節。

12.4 功率頻譜密度之測試配置

同 6.4 節

12.5 量測結果

操作模式	發射	測試日期	108 年 6 月 18 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

For U-NII-1 Band

802.11a

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Maximum Limit (dBm)	Pass/Fail
36	5180	9.02	0.19	9.21	11	PASS
40	5200	10.77	0.19	10.96	11	PASS
48	5240	10.75	0.19	10.94	11	PASS

NOTE: Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (20MHz)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Maximum Limit (dBm)	Pass/Fail
36	5180	8.53	0.21	8.74	11	PASS
40	5200	10.65	0.21	10.86	11	PASS
48	5240	10.68	0.21	10.89	11	PASS

NOTE: Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (40MHz)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Maximum Limit (dBm)	Pass/Fail
38	5190	4.12	0.45	4.57	11	PASS
46	5230	7.23	0.45	7.68	11	PASS

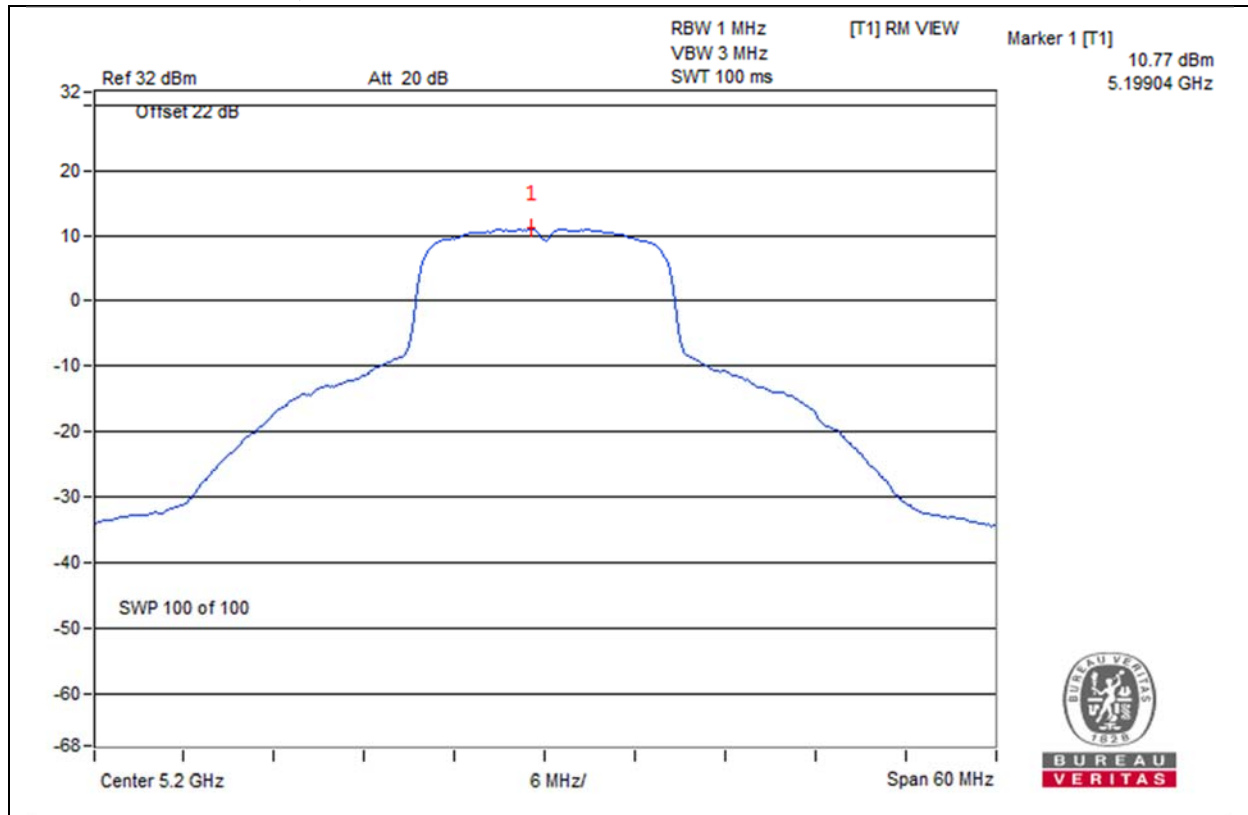
NOTE: Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (80MHz)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Maximum Limit (dBm)	Pass/Fail
42	5210	-0.16	0.76	0.60	11	PASS

NOTE: Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



For U-NII-3 Band

802.11a

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
149	5745	2.43	0.19	2.62	30	Pass
157	5785	2.27	0.19	2.46	30	Pass
165	5825	3.04	0.19	3.23	30	Pass

NOTE: Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (20MHz)

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
149	5745	2.42	0.21	2.63	30	Pass
157	5785	2.18	0.21	2.39	30	Pass
165	5825	2.89	0.21	3.10	30	Pass

NOTE: Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (40MHz)

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
151	5755	-1.55	0.45	-1.10	30	Pass
159	5795	-1.59	0.45	-1.14	30	Pass

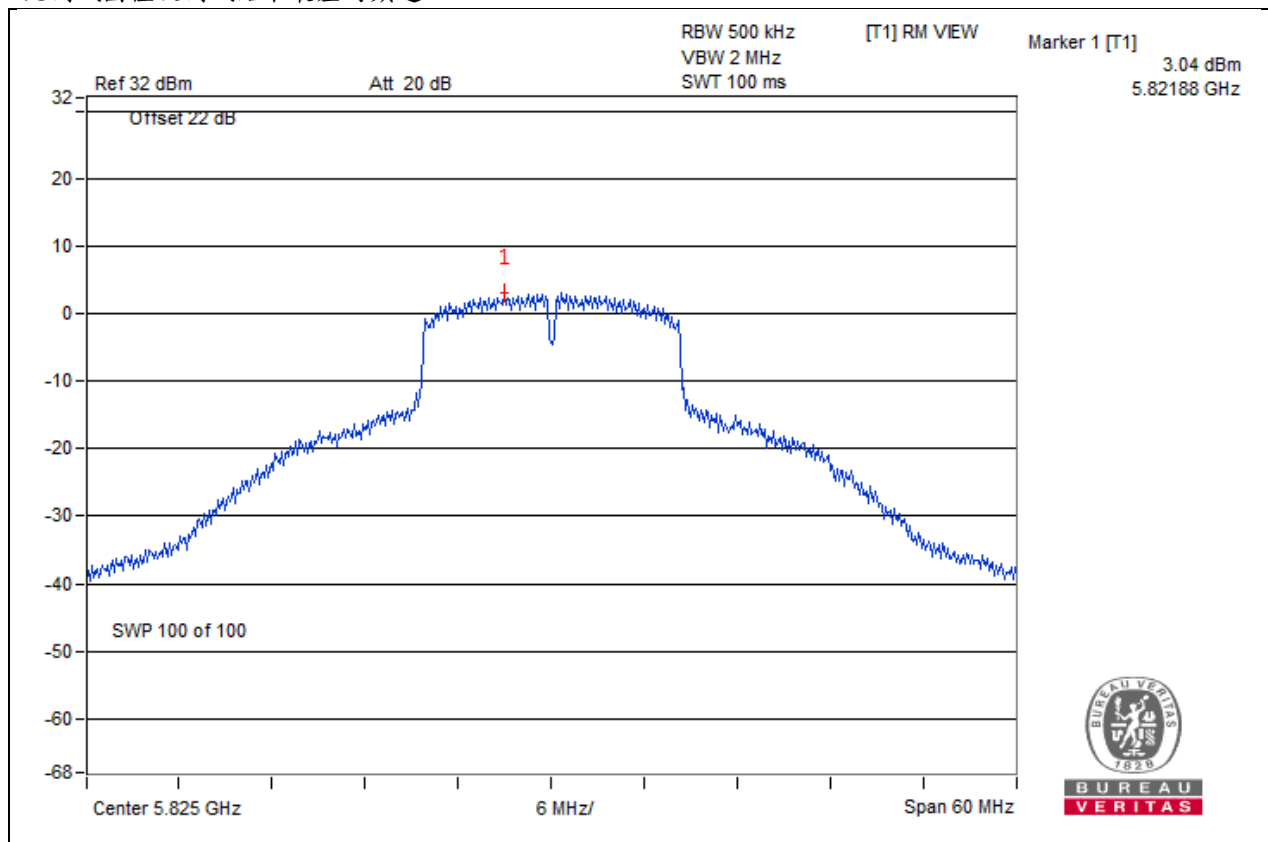
NOTE: Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (80MHz)

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
155	5775	-5.72	0.76	-4.96	30	Pass

NOTE: Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



12.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

13 6 dB 頻寬之要求

13.1 適用標準

待測物操作頻帶	適用標準
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 6 項(II)的規定

13.2 量測方法

- 將待測物輸出經由衰減器接到頻譜分析儀上。
- 設定待測物處於連續發射狀態。
- 計算由最大輸出功率峰值減6dB的最大頻率範圍。

13.3 量測儀器

同 6.3 節。

13.4 測試配置

同 6.4 節。

13.5 量測結果

操作模式	發射	測試日期	108 年 6 月 18 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

802.11a

Chan.	Freq. (MHz)	6dBc Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
149	5745	15.19	0.5	Pass
157	5785	15.22	0.5	Pass
165	5825	15.20	0.5	Pass

802.11ac (20MHz)

Chan.	Freq. (MHz)	6dBc Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
149	5745	16.56	0.5	Pass
157	5785	16.18	0.5	Pass
165	5825	16.60	0.5	Pass

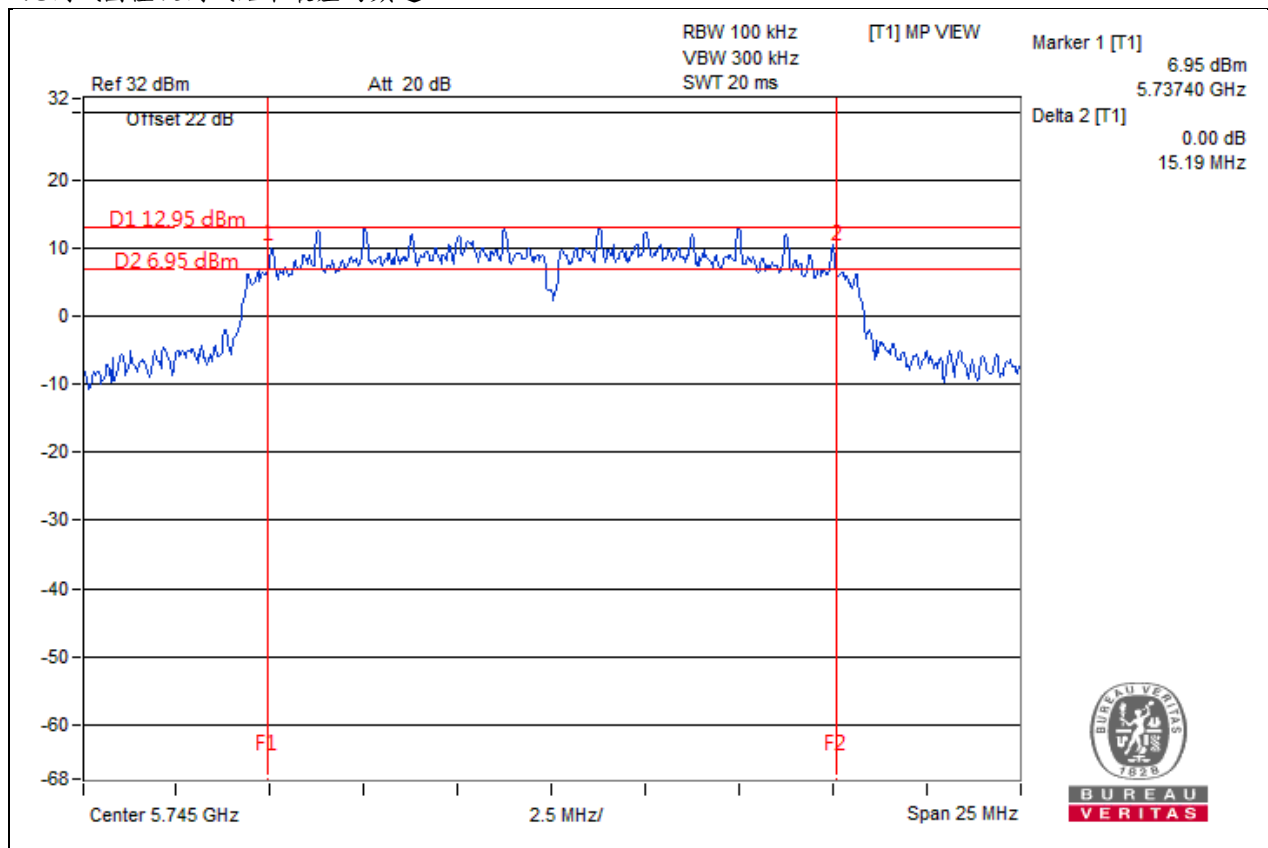
802.11ac (40MHz)

Chan.	Freq. (MHz)	6dBc Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
151	5755	35.11	0.5	Pass
159	5795	35.18	0.5	Pass

802.11ac (80MHz)

Chan.	Freq. (MHz)	6dBc Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
155	5775	72.72	0.5	Pass

**此測試圖僅放測試結果最差的頻道。



13.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

14 電波暴露量之評估

14.1 適用標準

請見本報告 3.1 節第 12 項的規定。

14.2 評估方法

a) 以 7.5 及 11.5 節所測得的最大輸出功率值再加上待測物天線的增益值(Gain)帶入下面公式換算出待測物所輻射的功率密度。

$$b) P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm^2

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

14.3 評估結果

電波暴露量之評估
☐ 待測物並非是 WLAN AP/Router 產品，不需進行電波暴露量之評估
☒ 待測物為 WLAN AP/Router 產品，需進行電波暴露量之評估

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)	Pass/Fail
2412-2462	25.67	2.7	20	0.1367	1	Pass
5180-5240	23.82	3.77	20	0.1142	1	Pass
5745-5825	23.62	3.81	20	0.1101	1	Pass

15 檢測實驗室基本資料

立德國際商品試驗有限公司桃園分公司提供產業界最佳的檢測以及諮詢服務。
本公司為 ISO/IEC 17025 認可實驗室。

如您有任何問題或建議，請與下列實驗室聯絡：

林口 EMC / RF 實驗室：
Tel: 886-2-26052180
Fax: 886-2-26051924

新竹 EMC / RF 及通訊實驗室：
Tel: 886-3-6668565
Fax: 886-3-6668323

華亞 EMC / RF / Safety 實驗室：
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

您也可以在我們的網站內找到各實驗室的地圖。

---END---