

低功率射頻電機技術規範測試報告

報告編號

RT140625C09D

申請者

鎮陞科技股份有限公司

產品名稱

Module

型號

PCE3302AN

製造廠商

神準科技股份有限公司 / 台灣

商標或廠牌

WatchGuard

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
105 年 8 月 23 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 106 年 10 月 27 日

報告簽署人簽章:



目 錄

報告發行紀錄	5
1 低功率射頻電機量測記錄表	7
2 一般敘述	9
2.1 待測設備	9
2.2 輔助測試之週邊設備描述	16
2.3 測試架構圖	16
3 適用規範	17
3.1 規範要求	17
3.2 限制使用之頻帶	22
2.4GHz 頻段測試紀錄結果	23
4 帶外發射之量測	23
4.1 適用標準	23
4.2 量測方法	23
4.3 量測儀器	24
4.4 測試配置	25
4.5 場強度之計算	26
4.6 量測結果	27
4.6.1 發射諧波	27
4.6.2 接收諧波	51
4.6.3 其它不必要之訊號	53
4.7 量測結果判定	54
4.8 配置照片	55
5 電源線傳導干擾之量測	57
5.1 適用標準	57
5.2 量測方法	57
5.3 量測儀器	57
5.4 測試配置	58
5.5 干擾值之計算	58
5.6 量測結果	59
5.7 量測結果判定	60
5.8 配置照片	61
6 發射頻寬之要求	62
6.1 適用標準	62
6.2 量測方法	62
6.3 量測儀器	62
6.4 測試配置	62
6.5 量測結果	63
6.6 量測結果判定	64
7 輸出峰值功率之量測	65
7.1 適用標準	65
7.2 量測方法	65
7.3 量測儀器	65
7.4 測試配置	65
7.5 量測結果	66
7.6 量測結果判定	66

8	功率密度之量測.....	67
8.1	適用標準.....	67
8.2	量測方法.....	67
8.3	量測儀器.....	67
8.4	測試配置.....	67
8.5	量測結果.....	68
8.6	量測結果判定.....	70
	U-NII 頻段測試紀錄結果.....	71
9	帶外發射之量測.....	71
9.1	適用標準.....	71
9.2	量測方法.....	71
9.3	量測儀器.....	72
9.4	測試配置.....	74
9.5	場強度之計算.....	74
9.6	量測結果.....	75
9.6.1	發射諧波.....	75
9.6.2	接收諧波.....	123
9.6.3	其它不必要之訊號.....	125
9.7	量測結果判定.....	126
9.8	配置照片.....	126
10	電源線傳導干擾之量測.....	127
10.1	適用標準.....	127
10.2	量測方法.....	127
10.3	量測儀器.....	127
10.4	測試配置.....	127
10.5	干擾值之計算.....	127
10.6	量測結果.....	128
10.7	量測結果判定.....	129
10.8	配置照片.....	129
11	峰值傳導輸出功率量測及發射頻寬之要求.....	130
11.1	適用標準.....	130
11.2	量測方法.....	130
11.3	量測儀器.....	130
11.4	測試配置.....	130
11.5	量測結果.....	131
11.6	量測結果判定.....	134
12	功率頻譜密度之量測.....	135
12.1	適用標準.....	135
12.2	量測方法.....	135
12.3	量測儀器.....	135
12.4	測試配置.....	135
12.5	量測結果.....	136
12.6	量測結果判定.....	139
13	6 dB 頻寬之要求.....	140
13.1	適用標準.....	140
13.2	量測方法.....	140
13.3	量測儀器.....	140
13.4	測試配置.....	140

13.5	量測結果	141
13.6	量測結果判定	142
14	電波暴露量之評估	143
14.1	適用標準	143
14.2	評估方法	143
14.3	評估結果	143
15	檢測實驗室基本資料	144

報告發行紀錄

Issue No.	Description	Date Issued
RT140625C09D	Original release	106 年 10 月 27 日

證 明 書

發行日期：106 年 10 月 27 日

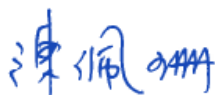
產 品 名 稱：Module
商 標：WatchGuard
型 號：PCE3302AN
申 請 者：鎮陞科技股份有限公司
量 測 規 範：低功率射頻電機技術規範 LP0002
ANSI C63.10-2013

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:PCE3302AN),
收件日期 106 年 06 月 05 日,於 106 年 06 月 29 日至 106 年 10 月 25 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：



陳 佩 珊 / 高級專員

, 日 期：

106 年 10 月 27 日

審 核 者：



劉 克 殷 / 資深經理

, 日 期：

106 年 10 月 27 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

申請者：鎮陞科技股份有限公司

製造廠商：神準科技股份有限公司 / 台灣

申請者地址：高雄市苓雅區成功一路 232 號 4 樓之 1

廠牌：WatchGuard

產品名稱：Module

型號：PCE3302AN

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
林口實驗室華亞檢測部

量測單位地址：桃園市龜山區文化里華亞二路 19 號

量測單位認可編號：TAF 2021 (9kHz~40GHz)

量測規範：低功率射頻電機技術規範 LP0002

ANSI C63.10-2013

KDB 558074

KDB 662911

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	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	低功率射頻電機技術規範 2.3 節	合格
4	6 dB 頻寬	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	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	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	低功率射頻電機技術規範 2.3 節	合格
2	帶外發射	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	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	低功率射頻電機技術規範 4.7.3.1 節	合格

WLAN 5.725~5.850GHz 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	低功率射頻電機技術規範2.3節	合格
2	帶外發射	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	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	低功率射頻電機技術規範4.7.3.3節	合格
5	6dB 頻寬	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	低功率射頻電機技術規範第 5.20.2 節	合格

2 一般敘述

2.1 待測設備

產品名稱：	Module
型號：	PCE3302AN
額定電源：	5Vdc (host equipment)
調變技術：	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
傳輸速率：	802.11b: 11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300Mbps
載波頻率：	2.4GHz: 2412 ~ 2462MHz 5.0GHz: 5180 ~ 5240MHz, 5745 ~ 5825MHz
頻道數：	2412 ~ 2462MHz: 11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40) 5180 ~ 5240MHz: 4 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40)
發射功率：	2412 ~ 2462MHz: 802.11b: 24.96dBm 802.11g: 28.72dBm 802.11n (HT20): 28.51dBm 802.11n (HT40): 25.11dBm 5180 ~ 5240MHz: 802.11a: 21.05dBm 802.11n (HT20): 21.00dBm 802.11n (HT40): 21.22dBm 5745 ~ 5825MHz: 802.11a: 20.41dBm 802.11n (HT20): 20.53dBm 802.11n (HT40): 20.40dBm
天線種類：	見註 2
電源線類別：	NA
信號線類別：	NA
配件：	NA

註 1: 此待測物之技術之種類為2Tx / 2Rx之組合。

Band	Modulation Mode	TX Function
2.4GHz	802.11b	2TX
	802.11g	2TX
	802.11n (HT20)	2TX
	802.11n (HT40)	2TX
5GHz	802.11a	2TX
	802.11n (HT20)	2TX
	802.11n (HT40)	2TX

註 2: 此待測設備搭配測試的天線，其資料如下：

Brand		NA		
Model		NA		
Type	Connector	Gain(dBi)		
		2400 ~ 2483.5MHz	5180 ~ 5240MHz	5745 ~ 5825MHz
PIFA	IPEX	5.2	5.7	6.2

註 3: The 2.4GHz and 5GHz cannot transmit simultaneously.

註 4: 此報告中，場強輻射量測經過評估後以下列測試模式進行最終量測。

載波頻率	量測項目	發射	接收
2412 ~ 2462MHz			
場強輻射量測	1GHz 以上量測	802.11b: Ch 1, 6, 11 802.11g: Ch 1, 6, 11 802.11n (HT20): Ch 1, 6, 11 802.11n (HT40): Ch 3, 6, 9	802.11g: Ch 6
	其它不必要之訊號	802.11g: Ch 6	
電源線傳導干擾		802.11g: Ch 6	
5180 ~ 5240MHz & 5745 ~ 5825MHz			
場強輻射量測	1GHz 以上量測	802.11a: Ch 36, 40, 48, 149, 157, 165 802.11n (HT20): Ch 36, 40, 48, 149, 157, 165 802.11n (HT40): Ch 38, 46, 151, 159	802.11a: Ch 157
	其它不必要之訊號	802.11a: Ch 157	
電源線傳導干擾		802.11a: Ch 157	

註 5: 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 6: 此待測設備，經評估三個正交軸方位評估測試擺設方式：平躺、側放、垂直，以平躺為最大干擾值之位置，故以此最大干擾值之擺放方式進行最終量測，並將測試結果紀錄。

註 7: Duty cycle of test signal.

2.4GHz Band:

Duty cycle of test signal is > 98%, duty factor is not required.

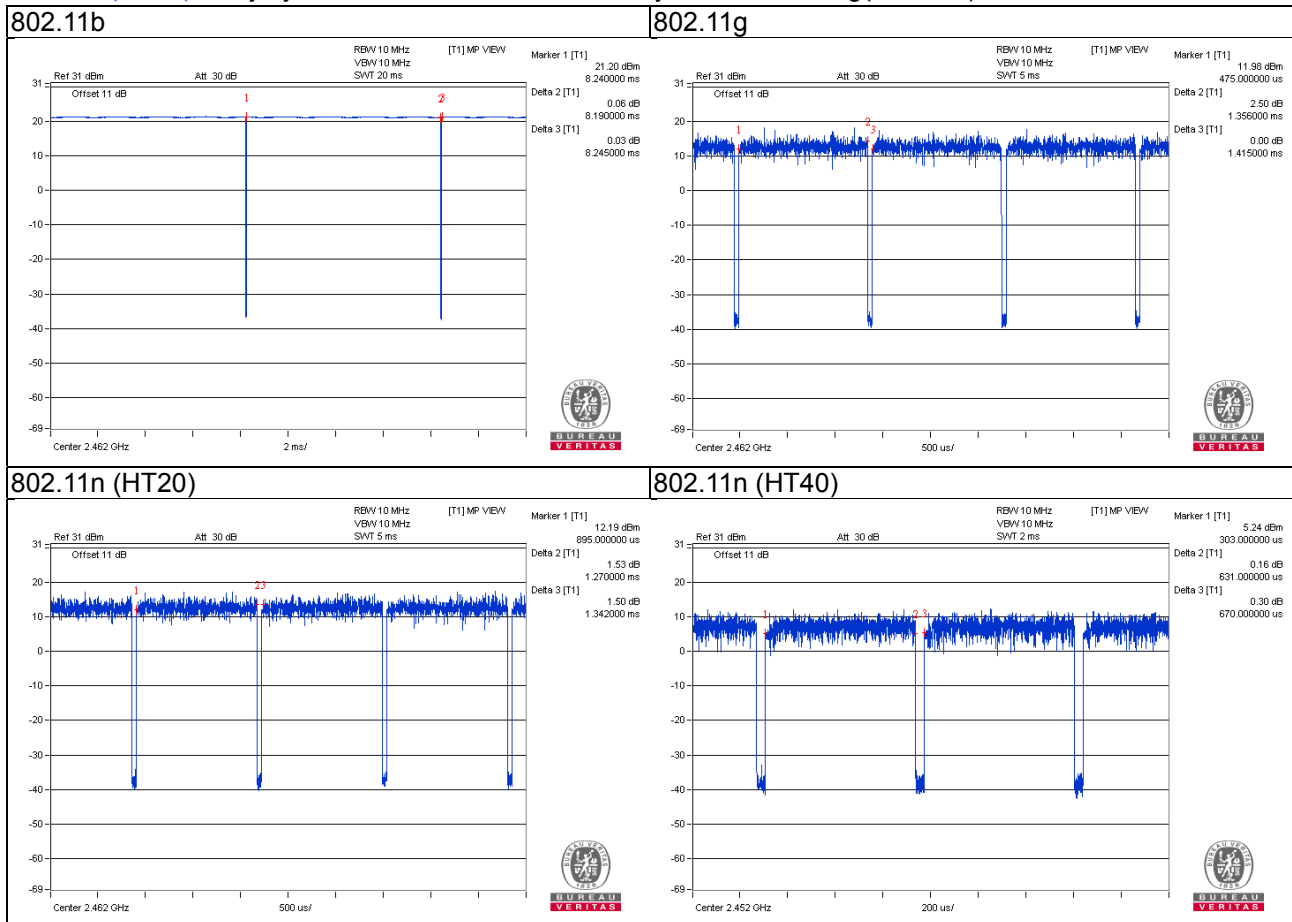
Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11b: Duty cycle = $8.190/8.245 = 0.993$, duty factor is not required.

802.11g: Duty cycle = $1.356/1.415 = 0.958$, Duty factor = $10 * \log(1/0.958) = 0.18$

802.11n (HT20): Duty cycle = $1.270/1.342 = 0.946$, Duty factor = $10 * \log(1/0.946) = 0.24$

802.11n (HT40): Duty cycle = $0.631/0.670 = 0.942$, Duty factor = $10 * \log(1/0.942) = 0.26$



5180~5240MHz

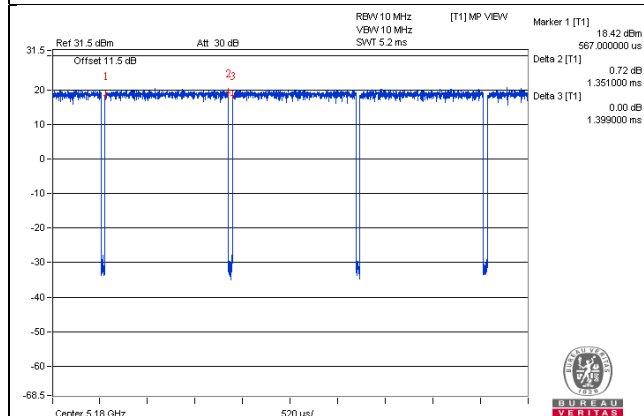
Duty cycle of test signal is < 98 %, duty factor is required.

802.11a: Duty cycle = $1.351/1.399 = 0.966$, Duty factor = $10 * \log(1/0.966) = 0.15$

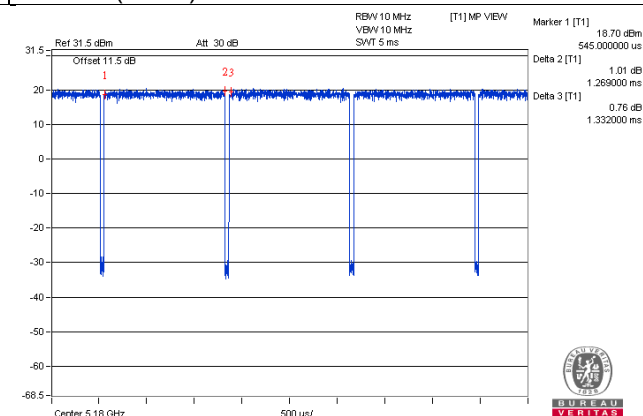
802.11n (HT20): Duty cycle = $1.269/1.332 = 0.953$, Duty factor = $10 * \log(1/0.953) = 0.21$

802.11n (HT40): Duty cycle = $0.630/0.665 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.23$

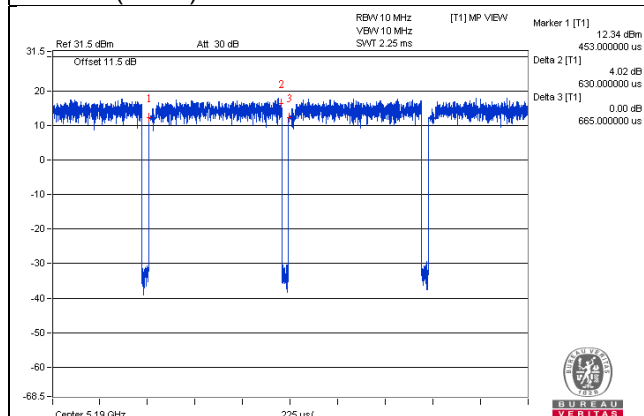
802.11a



802.11n (HT20)



802.11n (HT40)



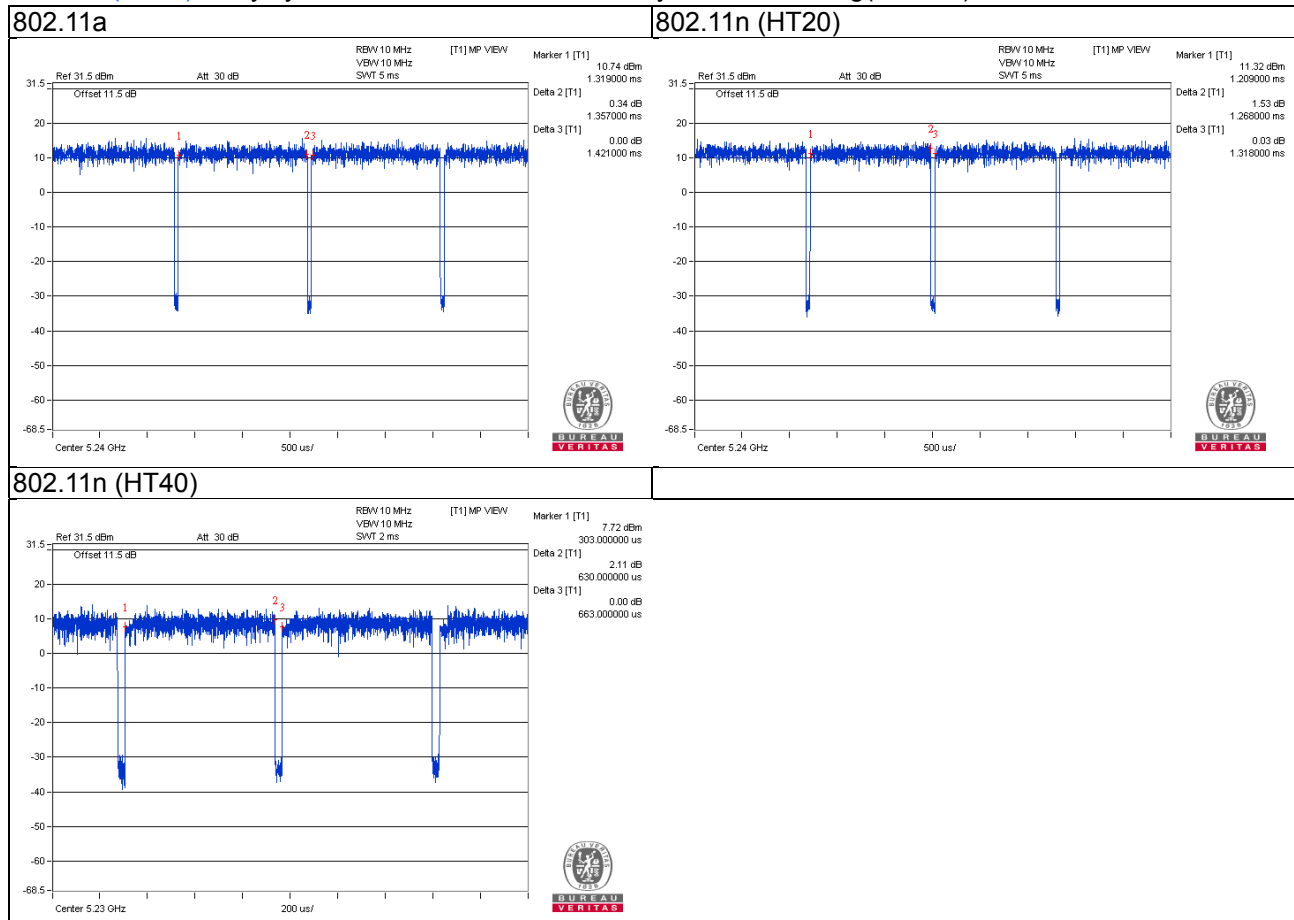
5745~5825MHz

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

802.11a: Duty cycle = $1.357/1.421 = 0.955$, Duty factor = $10 * \log(1/0.955) = 0.20$

802.11n (HT20): Duty cycle = $1.268/1.318 = 0.962$, Duty factor = $10 * \log(1/0.962) = 0.17$

802.11n (HT40): Duty cycle = $0.630/0.663 = 0.950$, Duty factor = $10 * \log(1/0.950) = 0.22$



此裝置各頻道的中心頻率如下：

2.4 GHz 頻段：

802.11b, 802.11g, 802.11n (HT20):

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 (HT40):

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 (HT20):

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

802.11n (HT40):

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

詳細之規格請參考使用說明書。

2.2 輔助測試之週邊設備描述

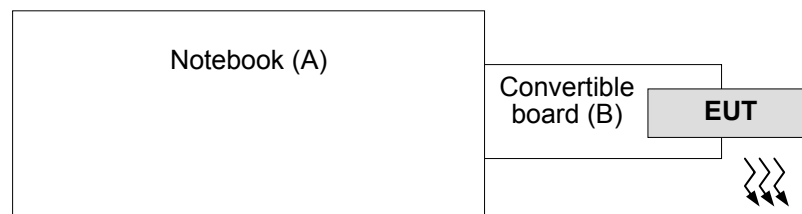
待測設備於受測時均接上其所屬的配件或一般用途之相關設備；下列輔助設備或配件測試中所使用的配備，以形成一個代表待測物實際運作的受測系統。

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5420	CN-0H5TG2-75900-1B 3-01TV-A01	FCC DoC Approved	-
B.	Convertible board	NA	NA	NA	NA	

Note:

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

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) ≤ -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) ≤ 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) ≤ 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) ≤ 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 ≥ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) ≤ -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。

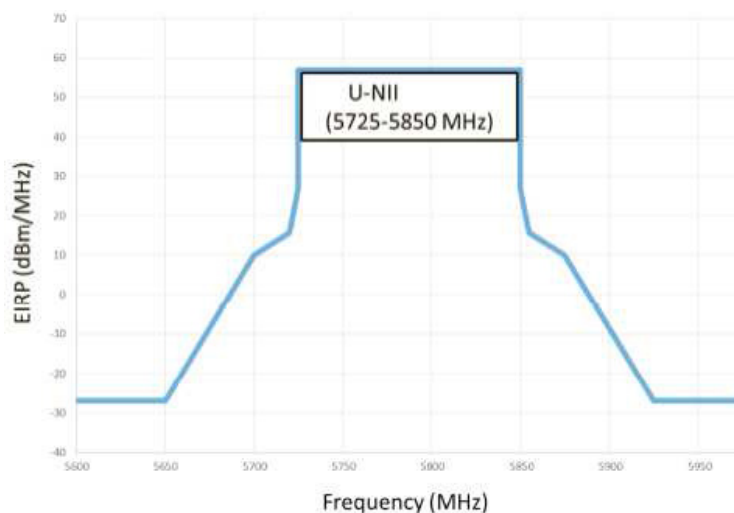


圖 1

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：百萬赫(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：百萬赫(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	1660.0~1770.0	14470~14500
19.965~20.020	1805.0~1865.0	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	2015.0~2025.0	23600~24000
108.00~138.00	2125.0~2165.0	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	

2.4GHz 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。

Note: 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

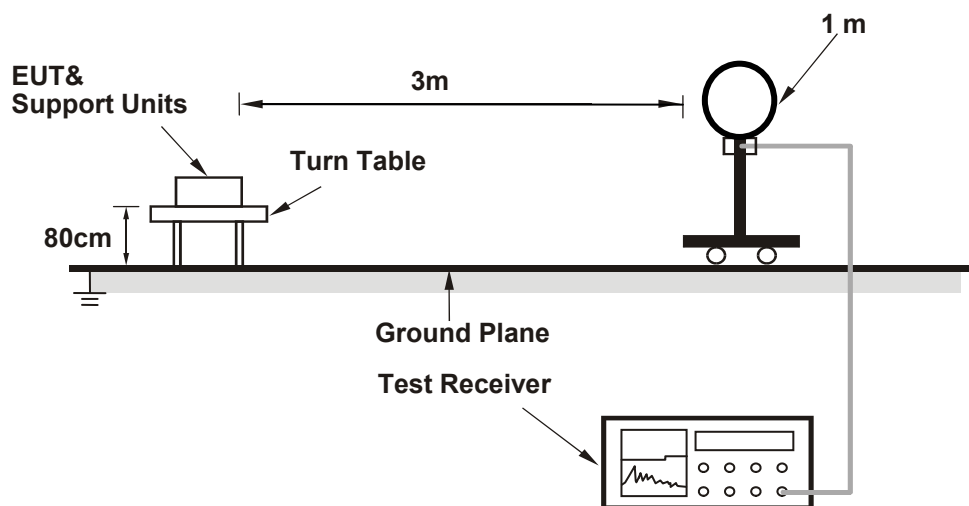
Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 02, 2017	May 01, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	9120D	209	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2016	Aug. 10, 2017
Preamplifier Agilent	8447D	2944A10738	Aug. 22, 2016	Aug. 21, 2017
Preamplifier Agilent	8449B	3008A01922	Sep. 18, 2016	Sep. 17, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (214378)	Aug. 22, 2016	Aug. 21, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 106	Cable-CH3-03 (309224+12738)	Aug. 22, 2016	Aug. 21, 2017
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	0824012	Aug. 11, 2016	Aug. 10, 2017
Power Sensor	MA2411B	0738171	Aug. 11, 2016	Aug. 10, 2017

- Note: 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 HwaYa Chamber 3.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
5. The IC Site Registration No. is IC 7450F-3.
6. 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.

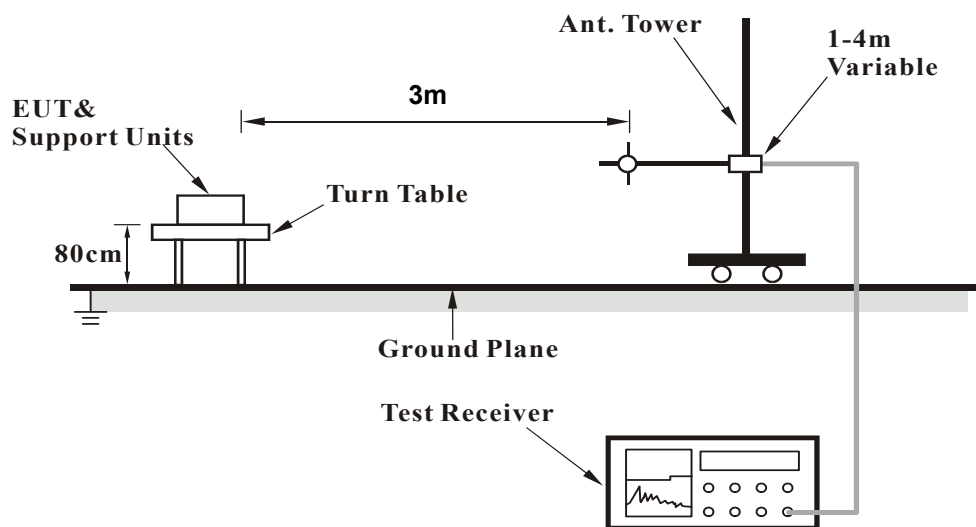
Measurement	Frequency	Uncertainty
Radiated emissions	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

4.4 測試配置

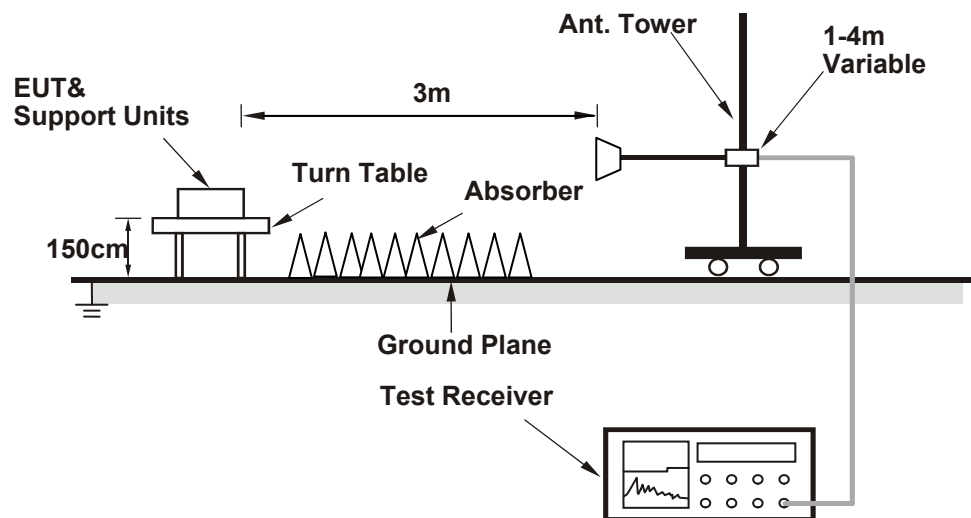
<Frequency Range below 30MHz>



<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

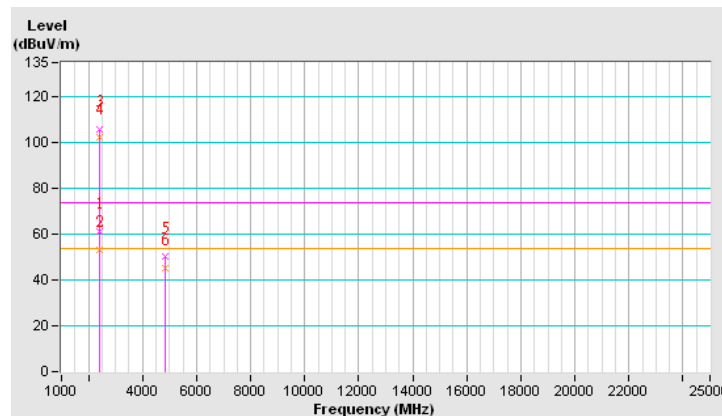
操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1 : 2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106 年 06 月 30 日	測試者：	楊德彥

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	61.0 PK	74.0	-13.0	3.61 H	325	30.0	31.0
2	2390.00	53.0 AV	54.0	-1.0	3.61 H	325	22.0	31.0
3	*2412.00	106.1 PK			3.53 H	323	74.9	31.2
4	*2412.00	102.5 AV			3.53 H	323	71.3	31.2
5	4824.00	50.3 PK	74.0	-23.7	1.01 H	8	49.8	0.5
6	4824.00	45.0 AV	54.0	-9.0	1.01 H	8	44.5	0.5
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



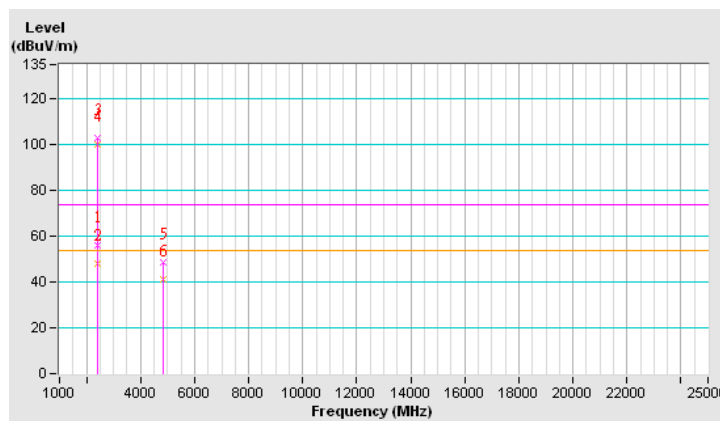
操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	56.0 PK	74.0	-18.0	2.26 V	165	25.0	31.0
2	2390.00	48.1 AV	54.0	-5.9	2.26 V	165	17.1	31.0
3	*2412.00	103.1 PK			1.10 V	359	71.9	31.2
4	*2412.00	100.0 AV			1.10 V	359	68.8	31.2
5	4824.00	48.6 PK	74.0	-25.4	3.40 V	113	48.1	0.5
6	4824.00	41.4 AV	54.0	-12.6	3.40 V	113	40.9	0.5
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



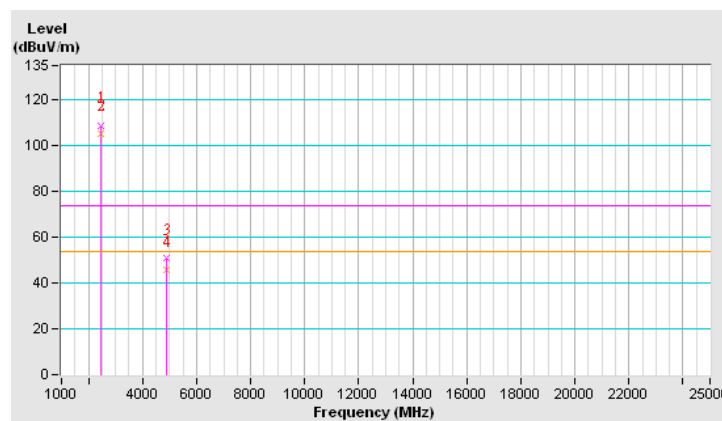
操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	108.9 PK			1.36 H	164	77.6	31.3
2	*2437.00	105.1 AV			1.36 H	164	73.8	31.3
3	4874.00	50.8 PK	74.0	-23.2	1.19 H	2	50.2	0.6
4	4874.00	45.9 AV	54.0	-8.1	1.19 H	2	45.3	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



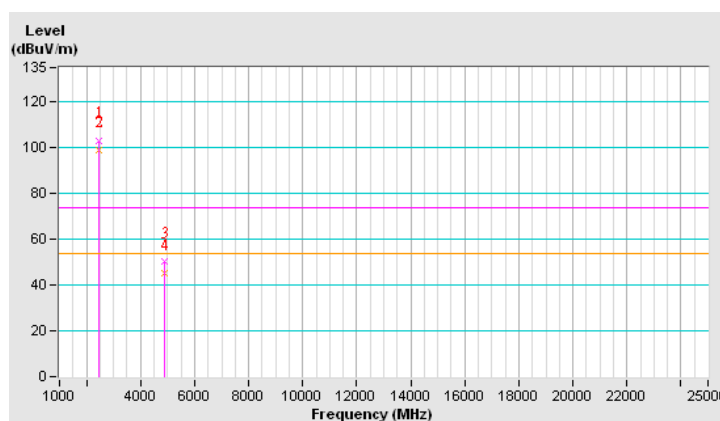
操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	102.7 PK			2.68 V	183	71.4	31.3
2	*2437.00	99.0 AV			2.68 V	183	67.7	31.3
3	4874.00	50.3 PK	74.0	-23.7	3.81 V	327	49.7	0.6
4	4874.00	45.1 AV	54.0	-8.9	3.81 V	327	44.5	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



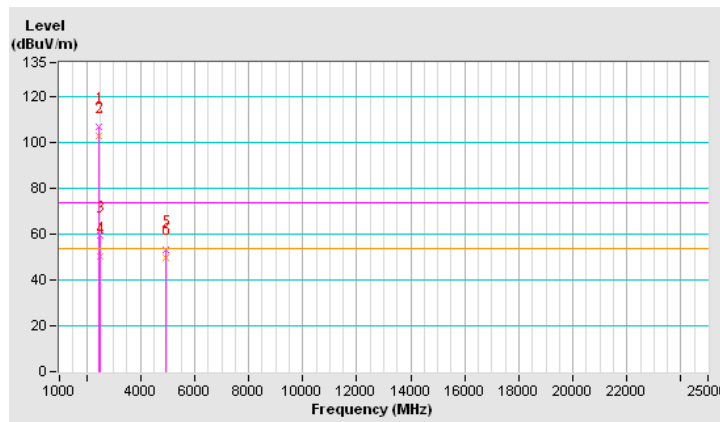
操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	106.7 PK			1.16 H	144	75.3	31.4
2	*2462.00	103.0 AV			1.16 H	144	71.6	31.4
3	2483.50	59.4 PK	74.0	-14.6	1.26 H	330	27.9	31.5
4	2483.50	50.6 AV	54.0	-3.4	1.26 H	330	19.1	31.5
5	4924.00	53.4 PK	74.0	-20.6	1.03 H	356	52.8	0.6
6	4924.00	49.5 AV	54.0	-4.5	1.03 H	356	48.9	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



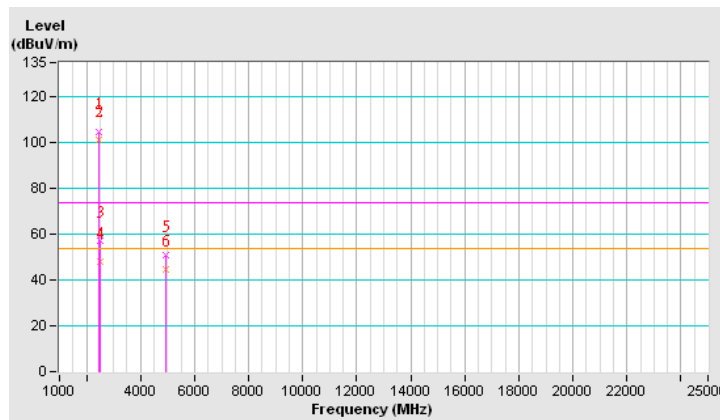
操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	104.9 PK			2.45 V	243	73.5	31.4
2	*2462.00	101.3 AV			2.45 V	243	69.9	31.4
3	2483.50	57.3 PK	74.0	-16.7	1.07 V	240	25.8	31.5
4	2483.50	48.1 AV	54.0	-5.9	1.07 V	240	16.6	31.5
5	4924.00	50.9 PK	74.0	-23.1	3.16 V	100	50.3	0.6
6	4924.00	44.9 AV	54.0	-9.1	3.16 V	100	44.3	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



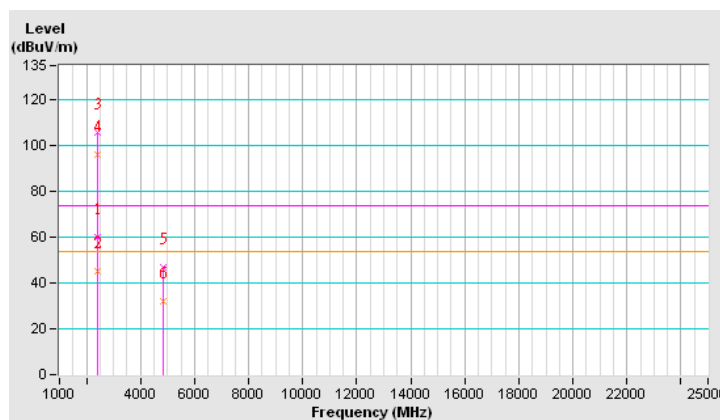
802.11g

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=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	60.1 PK	74.0	-13.9	1.68 H	338	29.1	31.0
2	2390.00	45.1 AV	54.0	-8.9	1.68 H	338	14.1	31.0
3	*2412.00	105.6 PK			1.92 H	152	74.4	31.2
4	*2412.00	96.1 AV			1.92 H	152	64.9	31.2
5	4824.00	46.8 PK	74.0	-27.2	1.79 H	113	46.3	0.5
6	4824.00	32.3 AV	54.0	-21.7	1.79 H	113	31.8	0.5
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



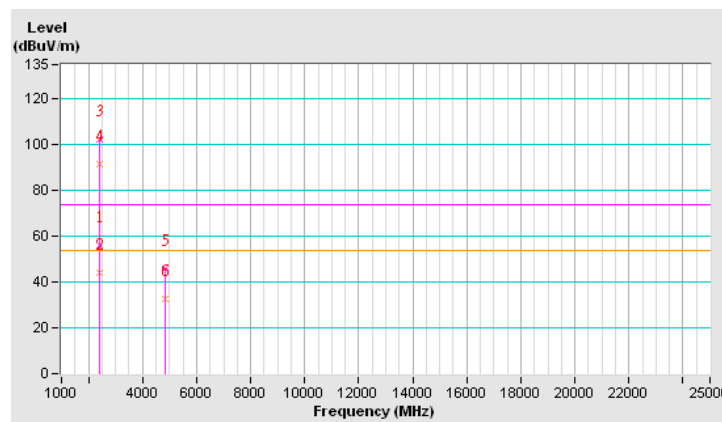
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	56.2 PK	74.0	-17.8	1.53 V	123	25.2	31.0
2	2390.00	43.9 AV	54.0	-10.1	1.53 V	123	12.9	31.0
3	*2412.00	102.2 PK			3.54 V	87	71.0	31.2
4	*2412.00	91.8 AV			3.54 V	87	60.6	31.2
5	4824.00	45.8 PK	74.0	-28.2	2.31 V	218	45.3	0.5
6	4824.00	32.4 AV	54.0	-21.6	2.31 V	218	31.9	0.5
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



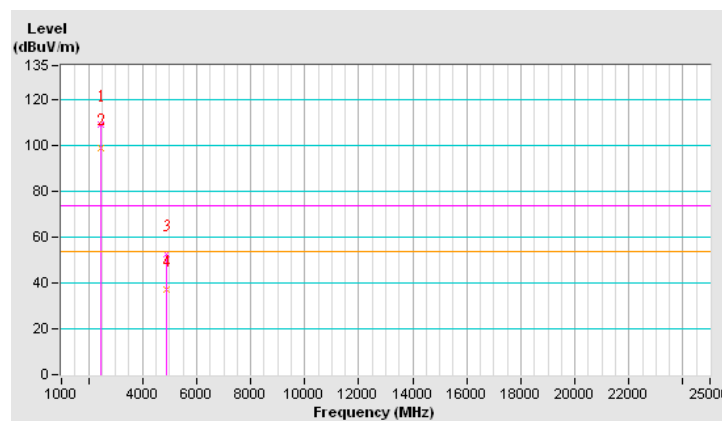
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	109.0 PK			1.36 H	163	77.7	31.3
2	*2437.00	98.9 AV			1.36 H	163	67.6	31.3
3	4874.00	52.6 PK	74.0	-21.4	1.06 H	358	52.0	0.6
4	4874.00	37.2 AV	54.0	-16.8	1.06 H	358	36.6	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



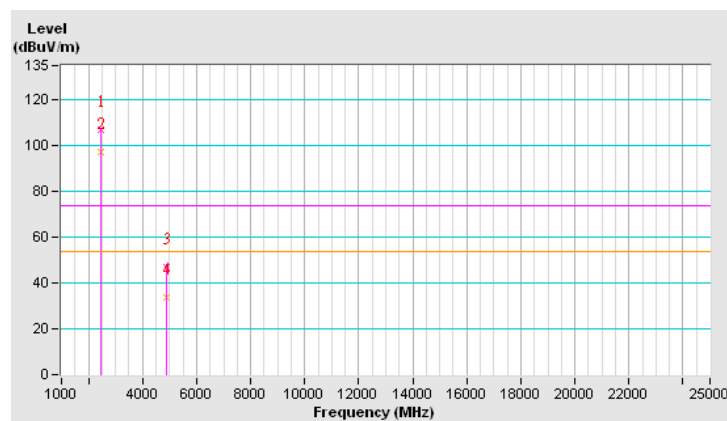
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	107.1 PK			3.44 V	287	75.8	31.3
2	*2437.00	97.2 AV			3.44 V	287	65.9	31.3
3	4874.00	47.1 PK	74.0	-26.9	1.77 V	120	46.5	0.6
4	4874.00	33.6 AV	54.0	-20.4	1.77 V	120	33.0	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



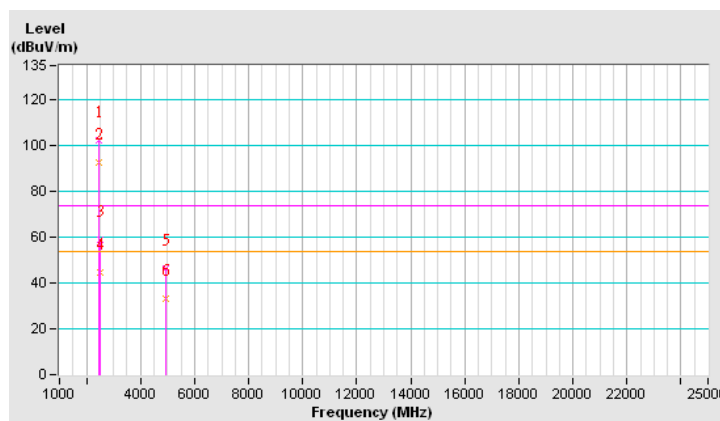
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	102.5 PK			2.71 H	168	71.1	31.4
2	*2462.00	92.9 AV			2.71 H	168	61.5	31.4
3	2483.50	58.7 PK	74.0	-15.3	1.68 H	171	27.2	31.5
4	2483.50	44.7 AV	54.0	-9.3	1.68 H	171	13.2	31.5
5	4924.00	46.3 PK	74.0	-27.7	1.92 H	221	45.7	0.6
6	4924.00	33.1 AV	54.0	-20.9	1.92 H	221	32.5	0.6
7	4924.00	-	-	-	-	-	-	-
8	7386.00	-	-	-	-	-	-	-
9	9848.00	-	-	-	-	-	-	-
10	12310.00	-	-	-	-	-	-	-
11	14772.00	-	-	-	-	-	-	-
12	17234.00	-	-	-	-	-	-	-
13	19696.00	-	-	-	-	-	-	-
14	22158.00	-	-	-	-	-	-	-
15	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



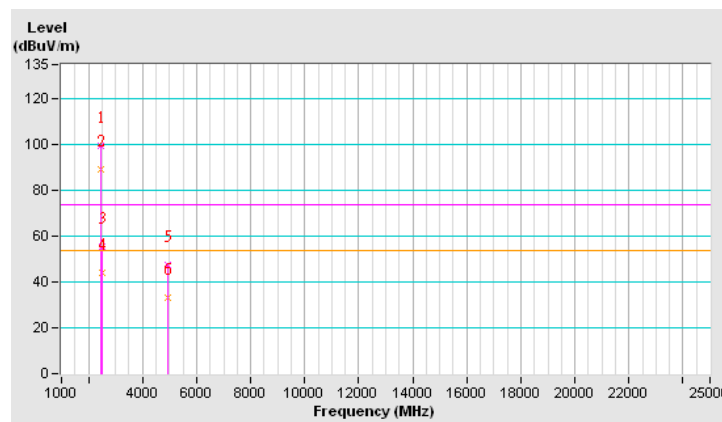
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	99.7 PK			1.00 V	85	68.3	31.4
2	*2462.00	89.2 AV			1.00 V	85	57.8	31.4
3	2483.50	55.5 PK	74.0	-18.5	2.30 V	116	24.0	31.5
4	2483.50	43.9 AV	54.0	-10.1	2.30 V	116	12.4	31.5
5	4924.00	47.3 PK	74.0	-26.7	1.77 V	214	46.7	0.6
6	4924.00	32.9 AV	54.0	-21.1	1.77 V	214	32.3	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



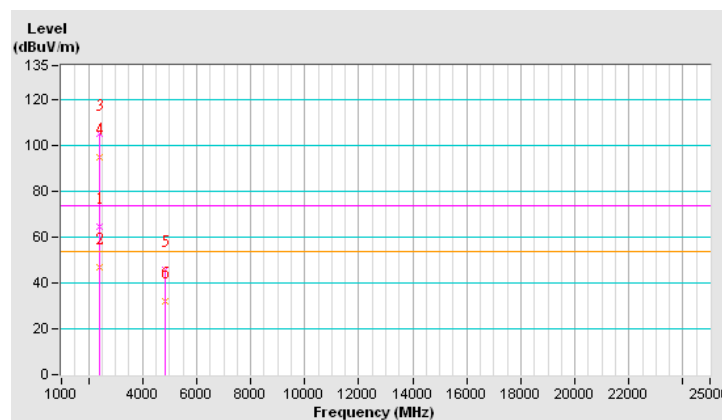
802.11n (HT20)

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=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	64.6 PK	74.0	-9.4	3.57 H	349	33.6	31.0
2	2390.00	47.0 AV	54.0	-7.0	3.57 H	349	16.0	31.0
3	*2412.00	105.5 PK			1.36 H	341	74.3	31.2
4	*2412.00	95.0 AV			1.36 H	341	63.8	31.2
5	4824.00	45.7 PK	74.0	-28.3	1.75 H	123	45.2	0.5
6	4824.00	32.2 AV	54.0	-21.8	1.75 H	123	31.7	0.5
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



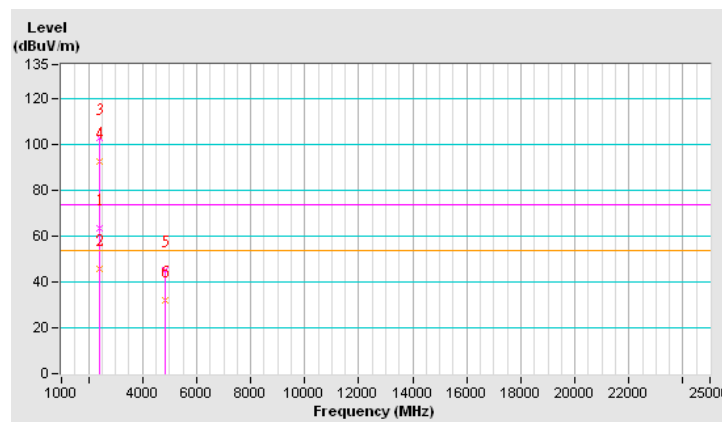
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	63.7 PK	74.0	-10.3	2.24 V	77	32.7	31.0
2	2390.00	45.9 AV	54.0	-8.1	2.24 V	77	14.9	31.0
3	*2412.00	103.0 PK			2.28 V	79	71.8	31.2
4	*2412.00	92.8 AV			2.28 V	79	61.6	31.2
5	4824.00	45.4 PK	74.0	-28.6	1.11 V	211	44.9	0.5
6	4824.00	32.3 AV	54.0	-21.7	1.11 V	211	31.8	0.5
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



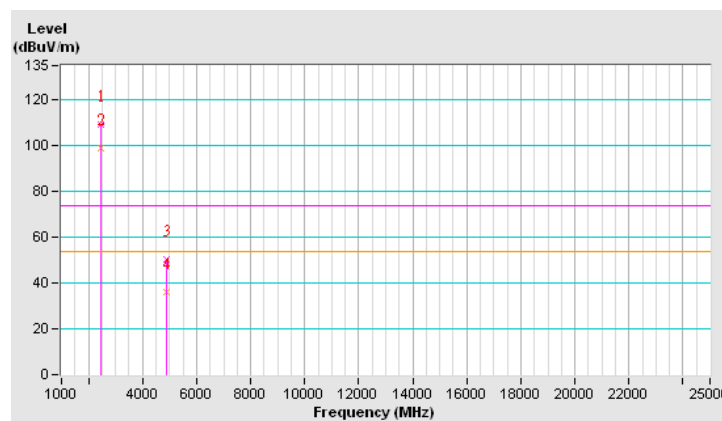
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	109.4 PK			1.80 H	163	78.1	31.3
2	*2437.00	98.7 AV			1.80 H	163	67.4	31.3
3	4874.00	50.1 PK	74.0	-23.9	1.04 H	358	49.5	0.6
4	4874.00	36.0 AV	54.0	-18.0	1.04 H	358	35.4	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



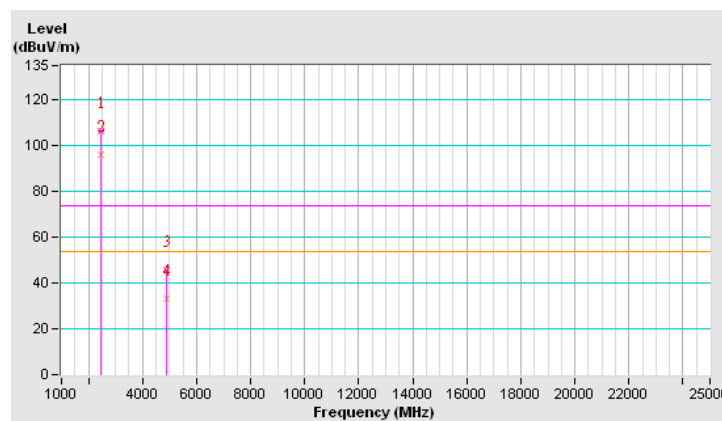
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	106.3 PK			1.33 V	79	75.0	31.3
2	*2437.00	96.2 AV			1.33 V	79	64.9	31.3
3	4874.00	45.8 PK	74.0	-28.2	1.71 V	216	45.2	0.6
4	4874.00	33.1 AV	54.0	-20.9	1.71 V	216	32.5	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



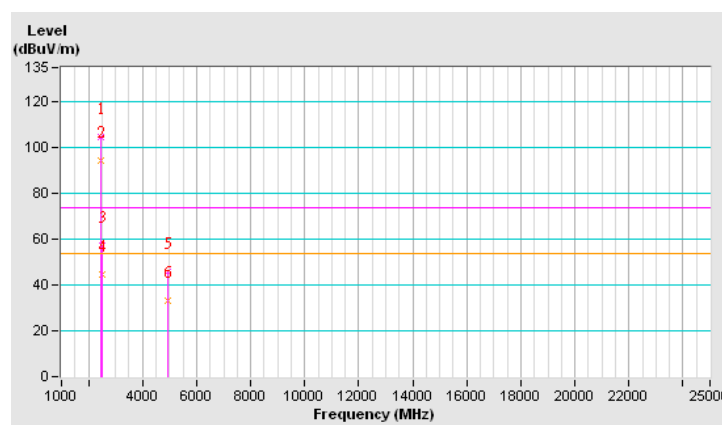
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	104.5 PK			4.00 H	46	73.1	31.4
2	*2462.00	94.1 AV			4.00 H	46	62.7	31.4
3	2483.50	57.2 PK	74.0	-16.8	1.32 H	183	25.7	31.5
4	2483.50	44.7 AV	54.0	-9.3	1.32 H	183	13.2	31.5
5	4924.00	46.0 PK	74.0	-28.0	2.12 H	247	45.4	0.6
6	4924.00	32.9 AV	54.0	-21.1	2.12 H	247	32.3	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



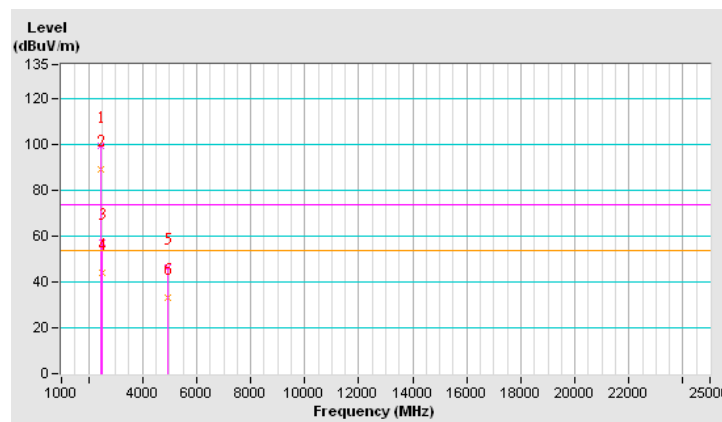
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	99.3 PK			1.00 V	83	67.9	31.4
2	*2462.00	89.2 AV			1.00 V	83	57.8	31.4
3	2483.50	57.2 PK	74.0	-16.8	1.49 V	264	25.7	31.5
4	2483.50	44.1 AV	54.0	-9.9	1.49 V	264	12.6	31.5
5	4924.00	46.3 PK	74.0	-27.7	1.18 V	97	45.7	0.6
6	4924.00	32.9 AV	54.0	-21.1	1.18 V	97	32.3	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



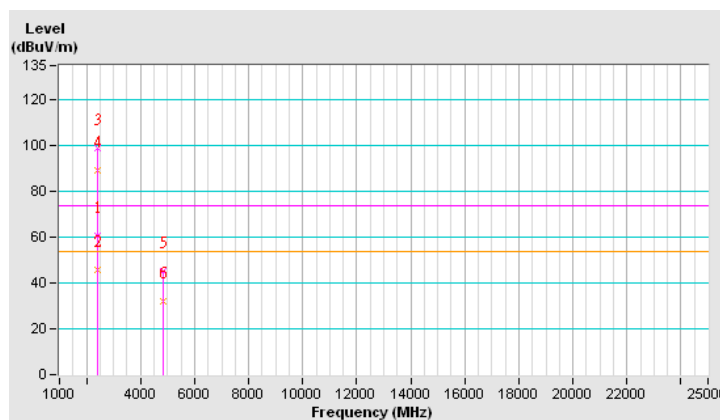
802.11n (HT40)

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=3kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	60.6 PK	74.0	-13.4	1.34 H	354	29.6	31.0
2	2390.00	45.9 AV	54.0	-8.1	1.34 H	354	14.9	31.0
3	*2422.00	99.2 PK			1.26 H	340	68.0	31.2
4	*2422.00	89.4 AV			1.26 H	340	58.2	31.2
5	4844.00	45.4 PK	74.0	-28.6	1.79 H	224	45.0	0.4
6	4844.00	32.0 AV	54.0	-22.0	1.79 H	224	31.6	0.4
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



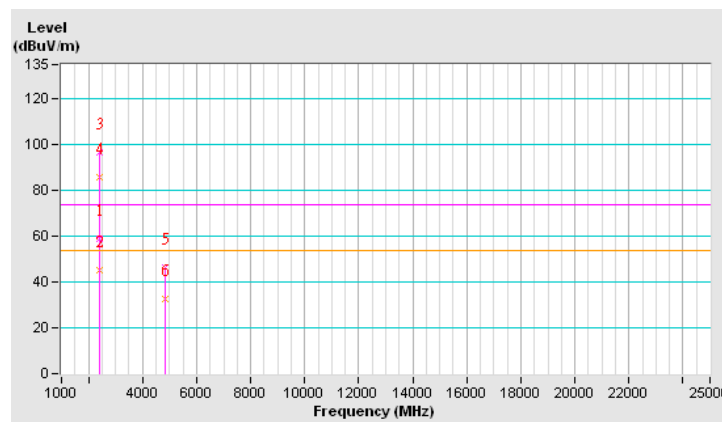
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	58.9 PK	74.0	-15.1	1.51 V	122	27.9	31.0
2	2390.00	45.1 AV	54.0	-8.9	1.51 V	122	14.1	31.0
3	*2422.00	96.7 PK			1.00 V	340	65.5	31.2
4	*2422.00	85.8 AV			1.00 V	340	54.6	31.2
5	4844.00	46.4 PK	74.0	-27.6	1.38 V	216	46.0	0.4
6	4844.00	32.4 AV	54.0	-21.6	1.38 V	216	32.0	0.4
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



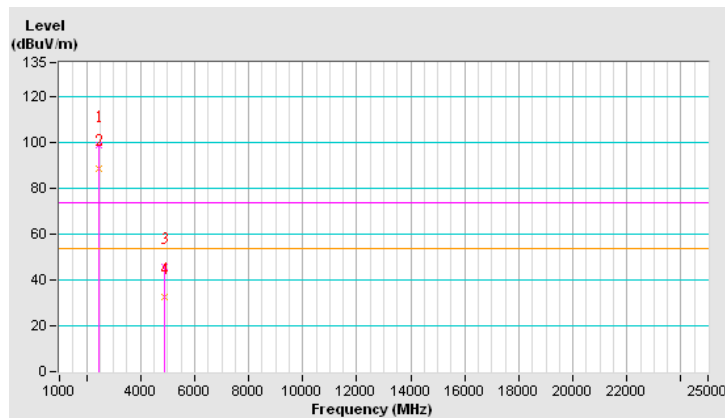
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	98.7 PK			1.27 H	340	67.4	31.3
2	*2437.00	88.7 AV			1.27 H	340	57.4	31.3
3	4874.00	45.9 PK	74.0	-28.1	1.63 H	221	45.3	0.6
4	4874.00	32.7 AV	54.0	-21.3	1.63 H	221	32.1	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



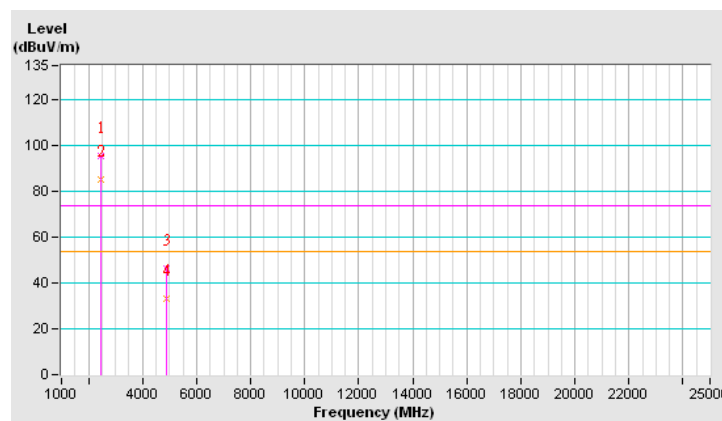
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	95.8 PK			1.00 V	354	64.5	31.3
2	*2437.00	85.4 AV			1.00 V	354	54.1	31.3
3	4874.00	46.6 PK	74.0	-27.4	1.24 V	194	46.0	0.6
4	4874.00	32.9 AV	54.0	-21.1	1.24 V	194	32.3	0.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



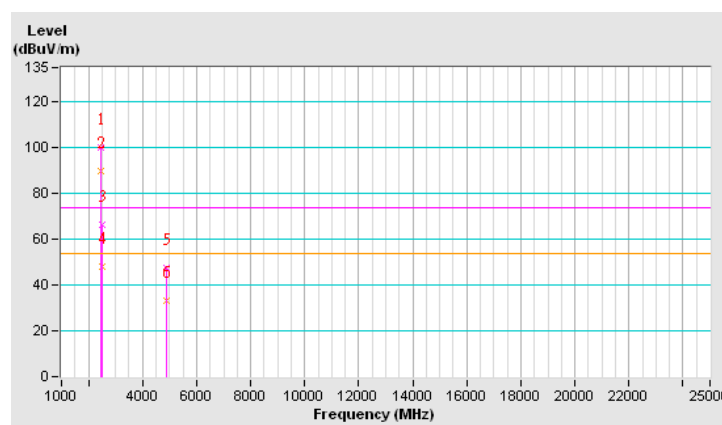
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	99.9 PK			1.13 H	143	68.5	31.4
2	*2452.00	89.7 AV			1.13 H	143	58.3	31.4
3	2483.50	66.5 PK	74.0	-7.5	1.58 H	145	35.0	31.5
4	2483.50	47.8 AV	54.0	-6.2	1.58 H	145	16.3	31.5
5	4904.00	47.4 PK	74.0	-26.6	1.47 H	237	46.9	0.5
6	4904.00	33.0 AV	54.0	-21.0	1.47 H	237	32.5	0.5
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



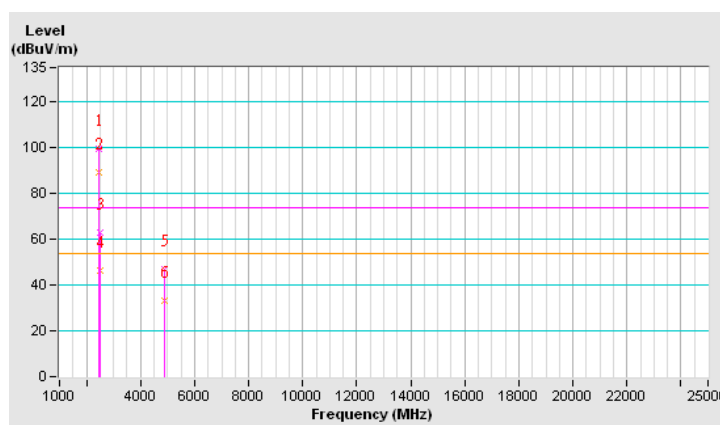
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	99.4 PK			4.00 V	69	68.0	31.4
2	*2452.00	89.4 AV			4.00 V	69	58.0	31.4
3	2483.50	63.0 PK	74.0	-11.0	1.02 V	83	31.5	31.5
4	2483.50	46.6 AV	54.0	-7.4	1.02 V	83	15.1	31.5
5	4904.00	47.1 PK	74.0	-26.9	1.88 V	197	46.6	0.5
6	4904.00	33.1 AV	54.0	-20.9	1.88 V	197	32.6	0.5
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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.



4.6.2 接收諧波

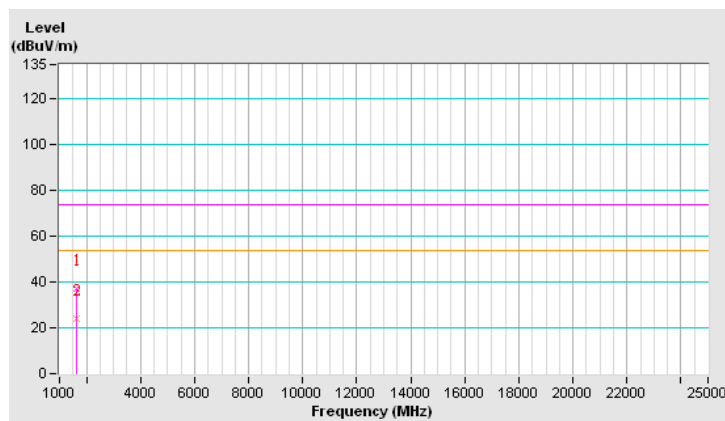
802.11g

操 作 模 式 :	接收		
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 :	26°C	量測場地濕度 :	69%RH
測 試 日 期 :	106 年 06 月 30 日	測 試 者 :	楊德彥

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	1625.00	37.2 PK	74.0	-36.8	1.68 H	277	46.1	-8.9
2	1625.00	24.2 AV	54.0	-29.8	1.68 H	277	33.1	-8.9

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



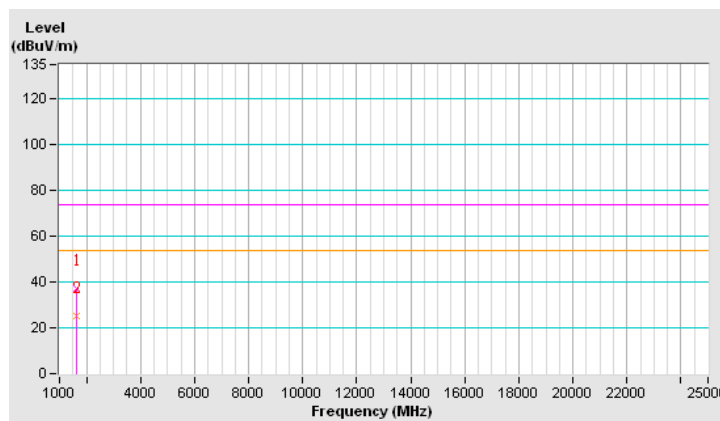
操作模式：	接收		
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	楊德彥

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	1625.00	36.9 PK	74.0	-37.1	1.99 V	183	45.8	-8.9
2	1625.00	25.2 AV	54.0	-28.8	1.99 V	183	34.1	-8.9

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



4.6.3 其它不必要之訊號

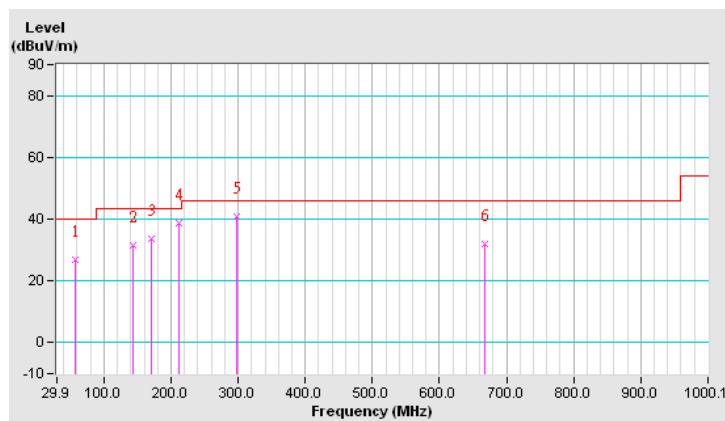
802.11g

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=VB=120kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	張仲志

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	57.12	26.7 QP	40.0	-13.3	2.00 H	82	41.3	-14.6
2	142.67	31.7 QP	43.5	-11.8	2.00 H	14	45.8	-14.1
3	169.89	33.7 QP	43.5	-9.8	1.51 H	350	47.6	-13.9
4	212.66	38.8 QP	43.5	-4.7	1.01 H	181	54.7	-15.9
5	298.21	40.9 QP	46.0	-5.1	1.01 H	328	53.0	-12.1
6	667.63	32.1 QP	46.0	-13.9	1.01 H	229	36.4	-4.3

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.

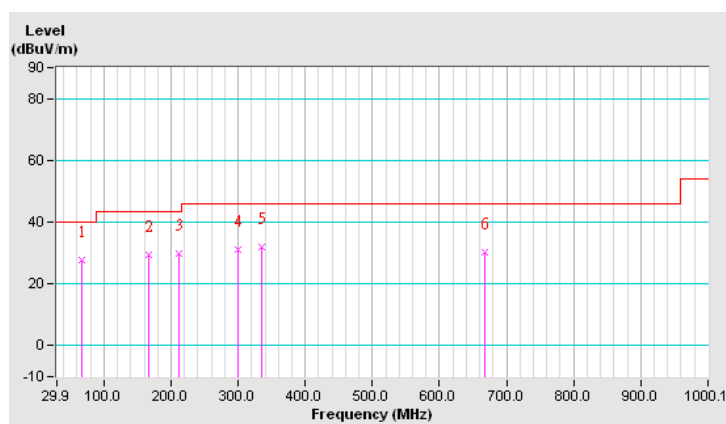


操作模式：	發射/接收	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	張仲志

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	66.84	27.9 QP	40.0	-12.1	1.00 V	285	43.8	-15.9
2	166.00	29.3 QP	43.5	-14.2	1.00 V	225	43.2	-13.9
3	212.66	29.7 QP	43.5	-13.8	1.99 V	107	45.6	-15.9
4	300.16	31.2 QP	46.0	-14.8	1.49 V	280	43.2	-12.0
5	335.15	31.8 QP	46.0	-14.2	1.99 V	255	43.0	-11.2
6	667.63	30.3 QP	46.0	-15.7	1.00 V	105	34.6	-4.3

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.

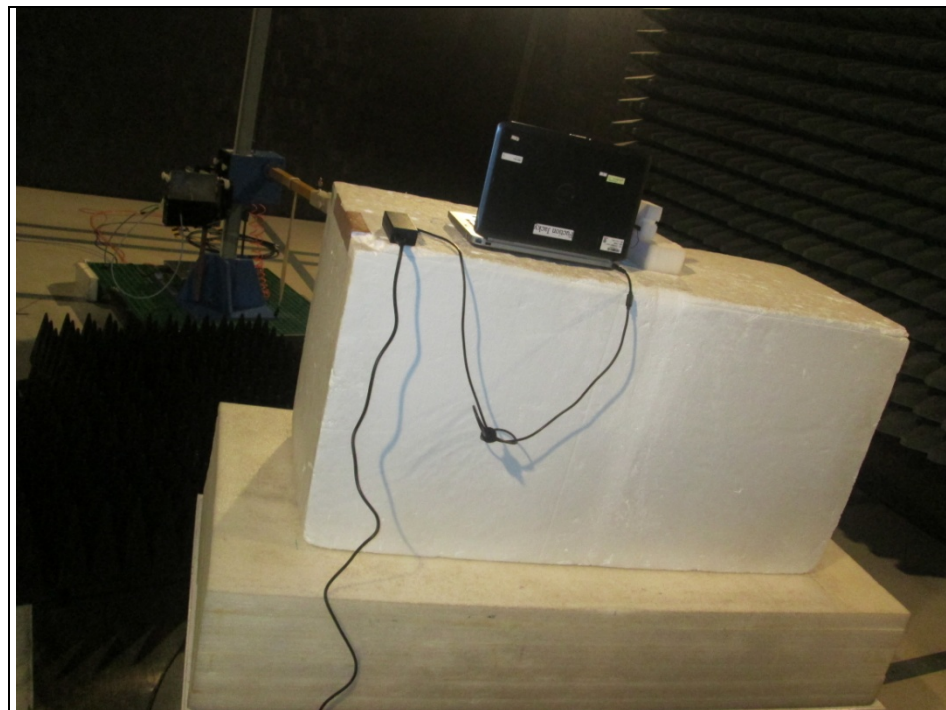
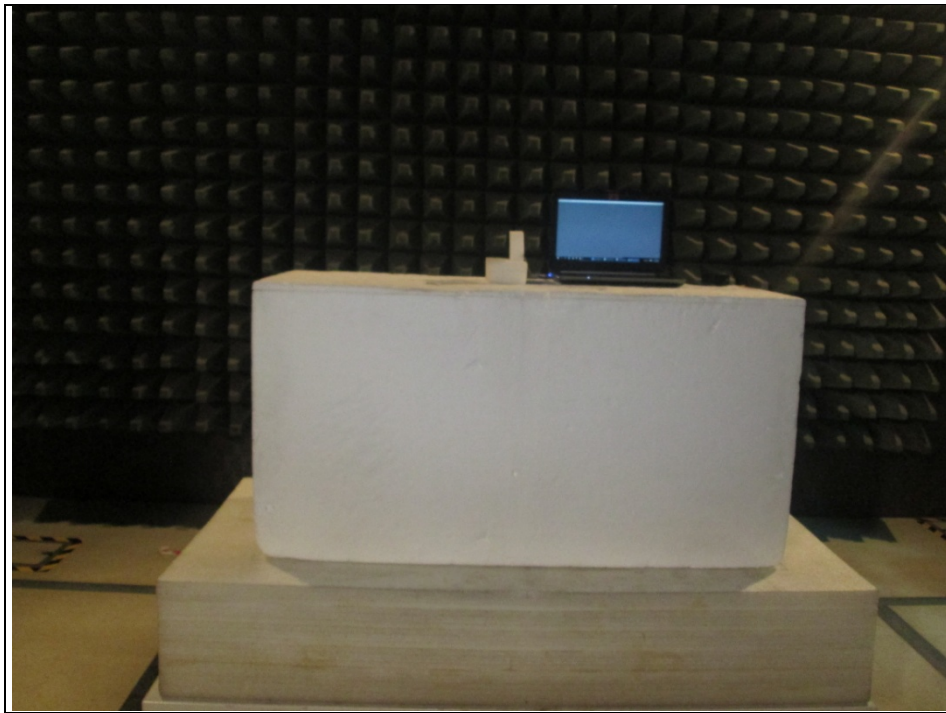


4.7 量測結果判定

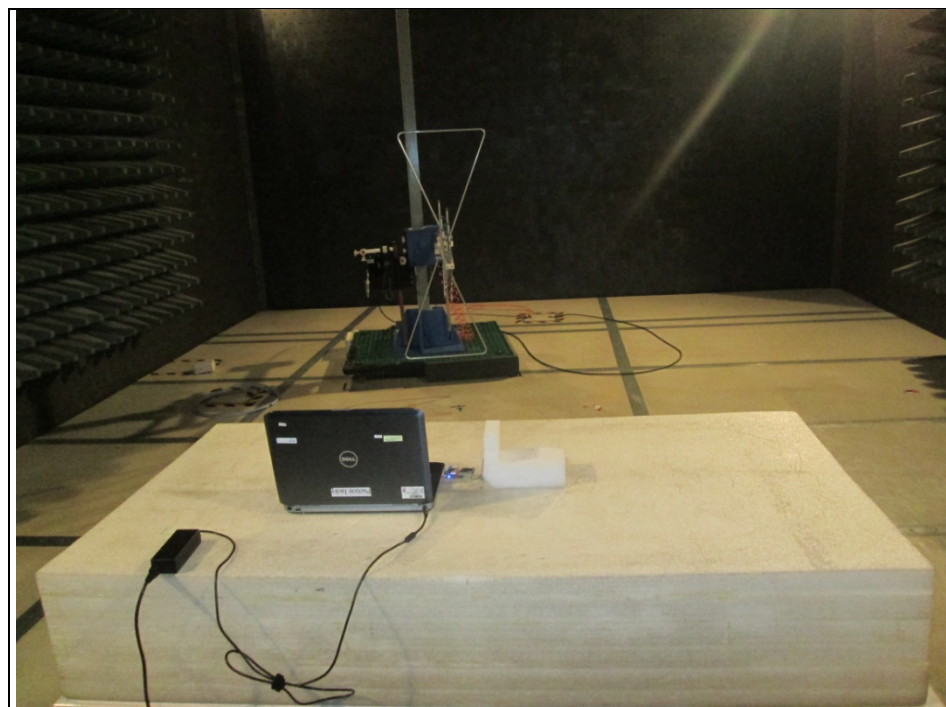
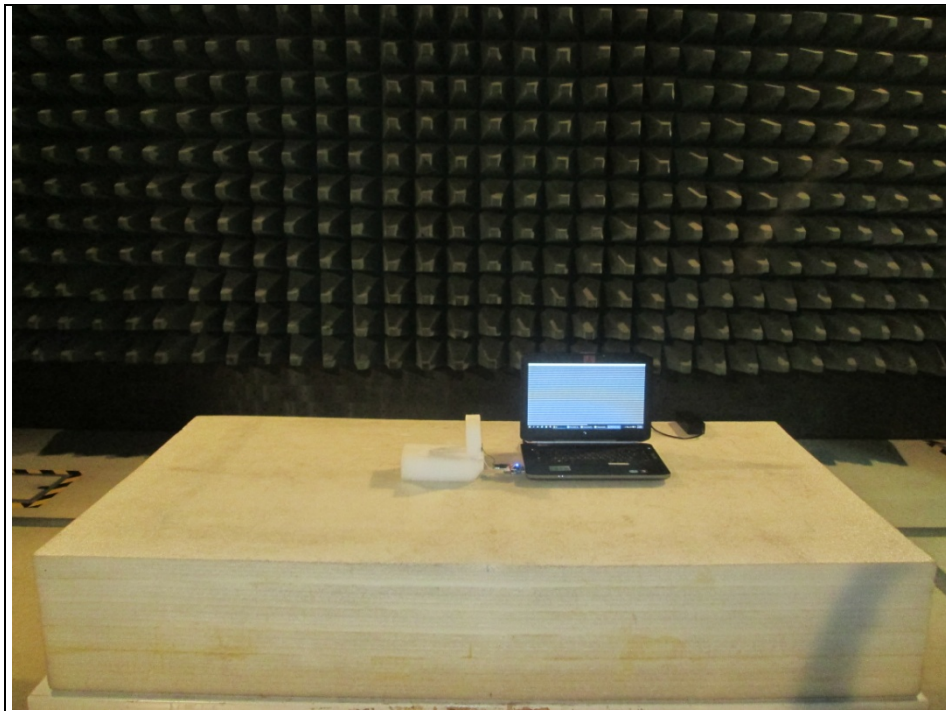
依據測試數據結果，符合低功率射頻電機技術規範之要求。

4.8 配置照片

量測頻率 1GHz 以上



量測頻率 1GHz 以下



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

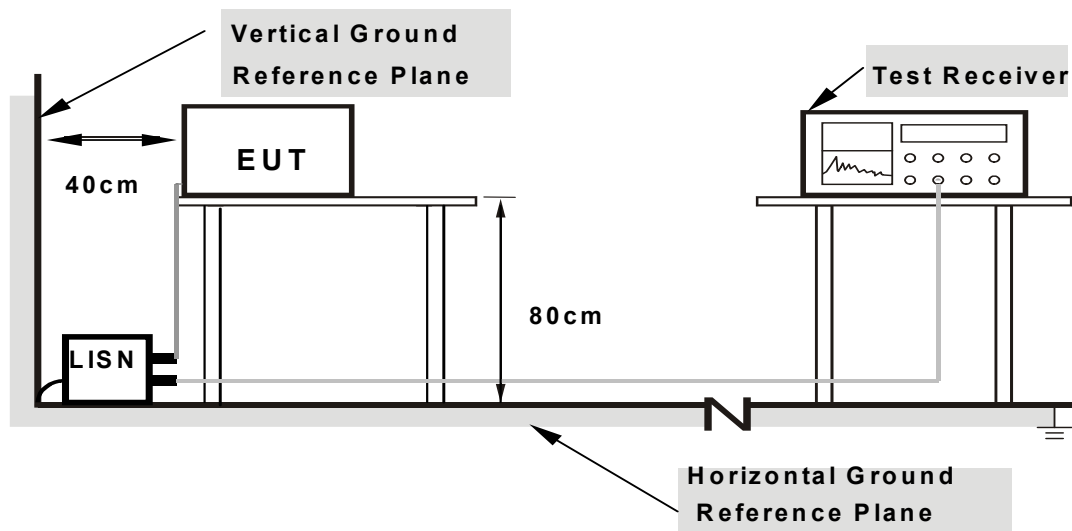
將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由0.15MHz至30MHz之間之電源線傳導放射強度。

5.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 21, 2016	Nov. 20, 2017
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 22, 2016	Dec. 21, 2017
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 28, 2016	Jul. 27, 2017
Software ADT	BV ADT_Conf_V7.3.7.3	NA	NA	NA

Note: 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 HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.
 4. The measurement uncertainty is 2.94 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.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

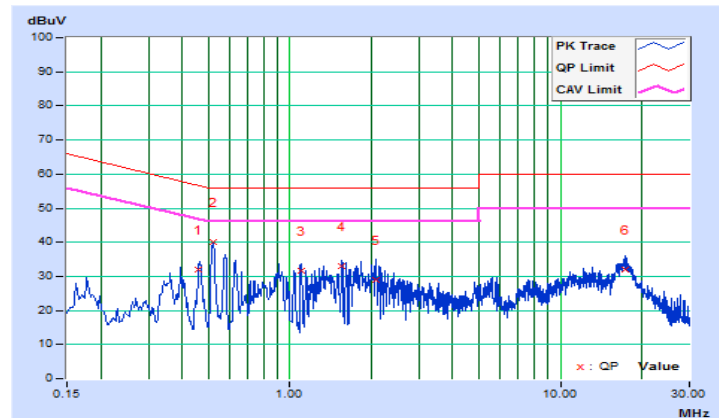
802.11g

操作模式	發射/接收	測試日期	106 年 06 月 30 日
基本波頻率	CH 6 : 2437 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張仲志		

		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.
0.45837	10.40	21.54	15.67	31.94	26.07	56.72	46.72	-24.78	-20.65
0.51879	10.40	29.70	27.42	40.10	37.82	56.00	46.00	-15.90	-8.18
1.10211	10.41	21.25	14.85	31.66	25.26	56.00	46.00	-24.34	-20.74
1.56200	10.43	22.40	15.41	32.83	25.84	56.00	46.00	-23.17	-20.16
2.07000	10.46	18.66	11.58	29.12	22.04	56.00	46.00	-26.88	-23.96
17.26200	11.21	20.70	12.96	31.91	24.17	60.00	50.00	-28.09	-25.83

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.Corrected factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

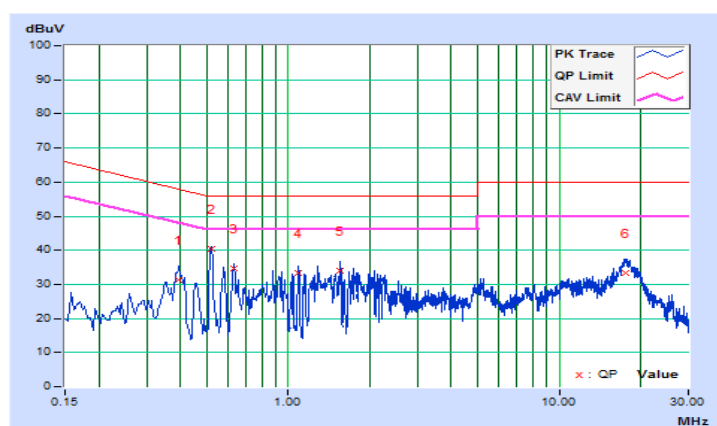


操作模式	發射/接收	測試日期	106 年 06 月 30 日
基本波頻率	CH 6 : 2437 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張仲志		

		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.
0.39400	10.16	21.13	12.74	31.29	22.90	57.98	47.98	-26.69	-25.08
0.52153	10.16	30.18	27.82	40.34	37.98	56.00	46.00	-15.66	-8.02
0.63046	10.16	24.53	21.90	34.69	32.06	56.00	46.00	-21.31	-13.94
1.09000	10.18	23.09	16.03	33.27	26.21	56.00	46.00	-22.73	-19.79
1.55000	10.20	23.93	14.50	34.13	24.70	56.00	46.00	-21.87	-21.30
17.63400	10.87	22.49	14.44	33.36	25.31	60.00	50.00	-26.64	-24.69

Note:

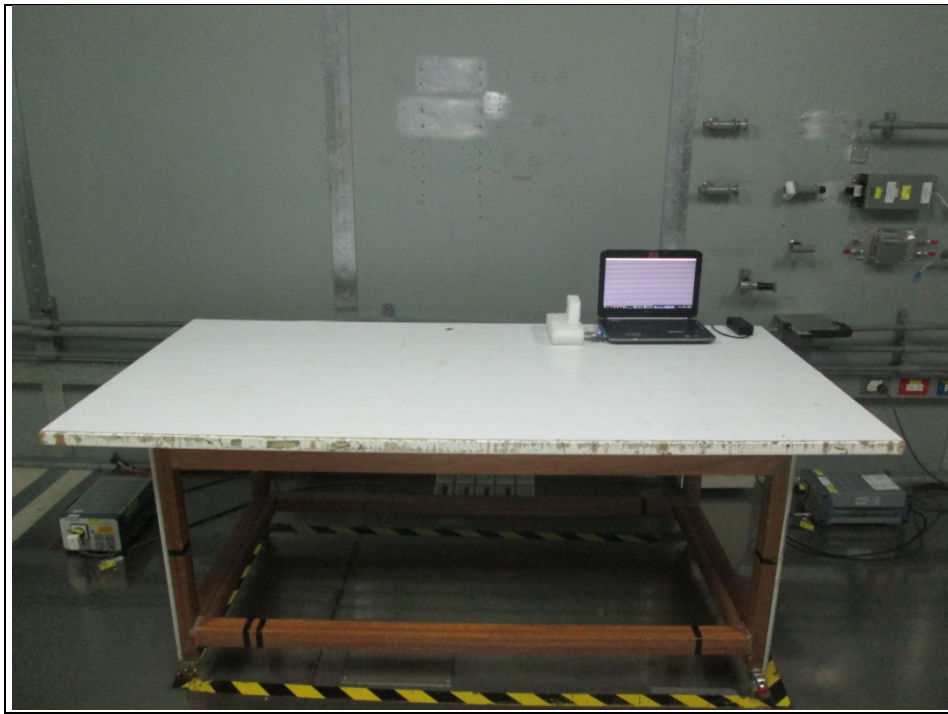
- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading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



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



6 發射頻寬之要求

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

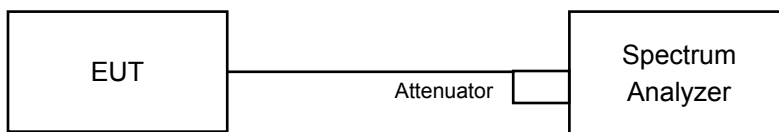
- a) 將待測物輸出經由衰減器接到頻譜分析儀上。
- b) 設定待測物處於連續發射狀態。
- c) 計算由最大輸出功率峰值減6dB的最大頻率範圍。

6.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017

Note: 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 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	106 年 07 月 04 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林成聰		

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	10.12	10.16	0.5	Pass
6	2437	10.10	10.14	0.5	Pass
11	2462	10.10	10.12	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.41	16.40	0.5	Pass
6	2437	16.38	16.37	0.5	Pass
11	2462	16.41	16.38	0.5	Pass

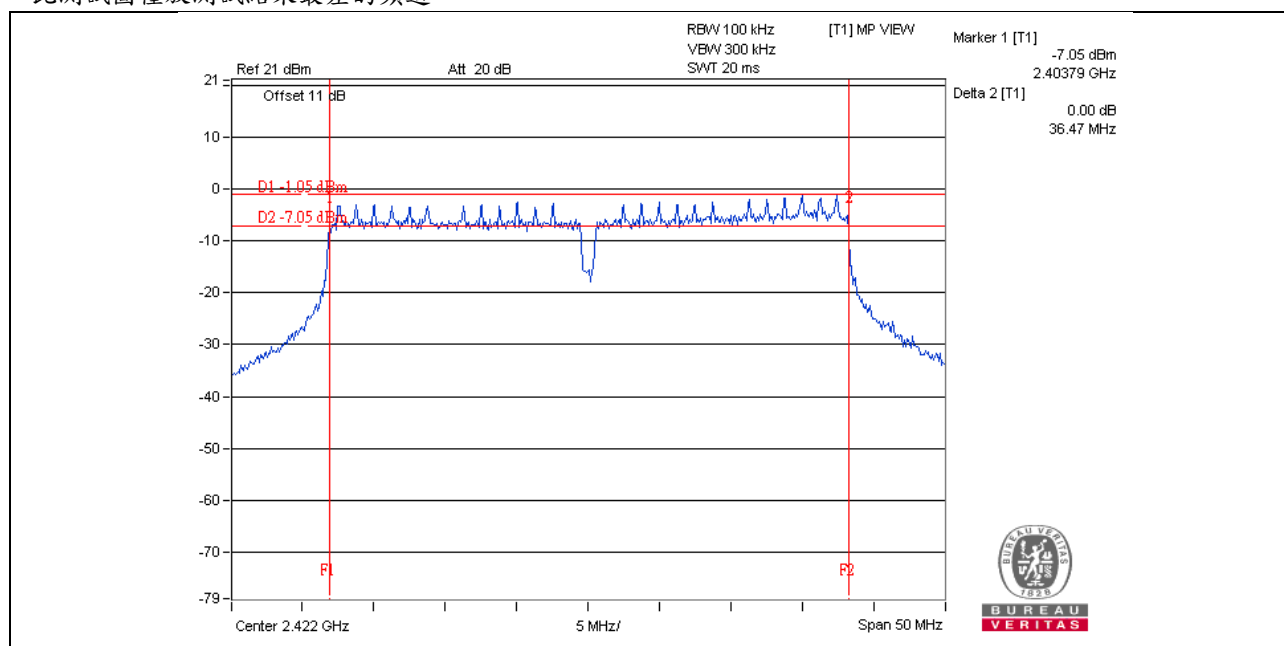
802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.62	17.37	0.5	Pass
6	2437	17.36	17.53	0.5	Pass
11	2462	17.62	17.60	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	36.09	36.47	0.5	Pass
6	2437	35.86	36.39	0.5	Pass
9	2452	36.19	36.21	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 輸出峰值功率之量測

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。
- 計算其輸出功率峰值。

7.3 量測儀器

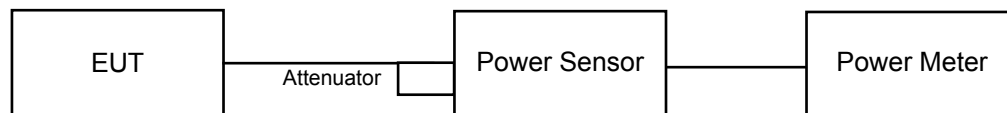
Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
High Speed Peak Power Meter	ML2495A	0824012	Aug. 11, 2016	Aug. 10, 2017
Power Sensor	MA2411B	0738171	Aug. 11, 2016	Aug. 10, 2017

Note: 1. 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	106 年 07 月 04 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林成聰		

802.11b

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.22	21.30	267.330	24.27	30	Pass
6	2437	21.63	22.25	313.426	24.96	30	Pass
11	2462	20.88	21.50	263.716	24.21	30	Pass

802.11g

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	22.65	23.22	393.971	25.95	30	Pass
6	2437	25.73	25.68	743.939	28.72	30	Pass
11	2462	21.01	21.11	255.305	24.07	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	24.11	23.65	489.371	26.90	30	Pass
6	2437	25.40	25.60	709.815	28.51	30	Pass
11	2462	21.22	22.46	308.632	24.89	30	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	21.73	22.44	324.324	25.11	30	Pass
6	2437	22.04	21.76	309.924	24.91	30	Pass
9	2452	21.14	21.69	277.588	24.43	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

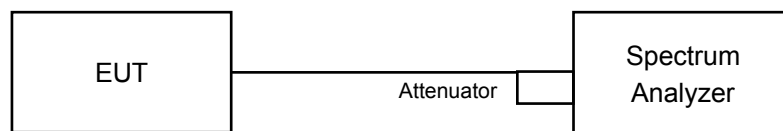
- 將待測物之天線埠經由適當之衰減直接連至測試儀器。
- 設定解析頻寬為3kHz，視訊頻寬為10kHz，掃描時間為auto。
- 掃描頻寬設於足夠觀察發射機所產生的主頻信號，並找到最大的峰值準位。
- 校正後的值，其峰值位準必須不大於+8dBm。

8.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
SPECTRUM ANALYZER R&S	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017

Note: 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 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.

8.4 測試配置



8.5 量測結果

操作模式	發射	測試日期	106 年 07 月 04 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林成聰		

802.11b

TX chain	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-4.34	3.01	-1.33	5.79	Pass
	6	2437	-5.53	3.01	-2.52	5.79	Pass
	11	2462	-5.84	3.01	-2.83	5.79	Pass
1	1	2412	-8.09	3.01	-5.08	5.79	Pass
	6	2437	-8.90	3.01	-5.89	5.79	Pass
	11	2462	-4.72	3.01	-1.71	5.79	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 5.2dBi + 10log(2) = 8.21dBi > 6dBi , so the power density limit shall be reduced to 8-(8.21-6) = 5.79dBm.

802.11g

TX chain	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-12.65	3.01	-9.64	5.79	Pass
	6	2437	-7.29	3.01	-4.28	5.79	Pass
	11	2462	-14.57	3.01	-11.56	5.79	Pass
1	1	2412	-11.99	3.01	-8.98	5.79	Pass
	6	2437	-7.40	3.01	-4.39	5.79	Pass
	11	2462	-14.73	3.01	-11.72	5.79	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 5.2dBi + 10log(2) = 8.21dBi > 6dBi , so the power density limit shall be reduced to 8-(8.21-6) = 5.79dBm.

802.11n (HT20)

TX chain	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-11.19	3.01	-8.18	5.79	Pass
	6	2437	-6.73	3.01	-3.72	5.79	Pass
	11	2462	-15.04	3.01	-12.03	5.79	Pass
1	1	2412	-10.33	3.01	-7.32	5.79	Pass
	6	2437	-8.30	3.01	-5.29	5.79	Pass
	11	2462	-14.19	3.01	-11.18	5.79	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $5.2\text{dBi} + 10\log(2) = 8.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(8.21-6) = 5.79\text{dBm}$.

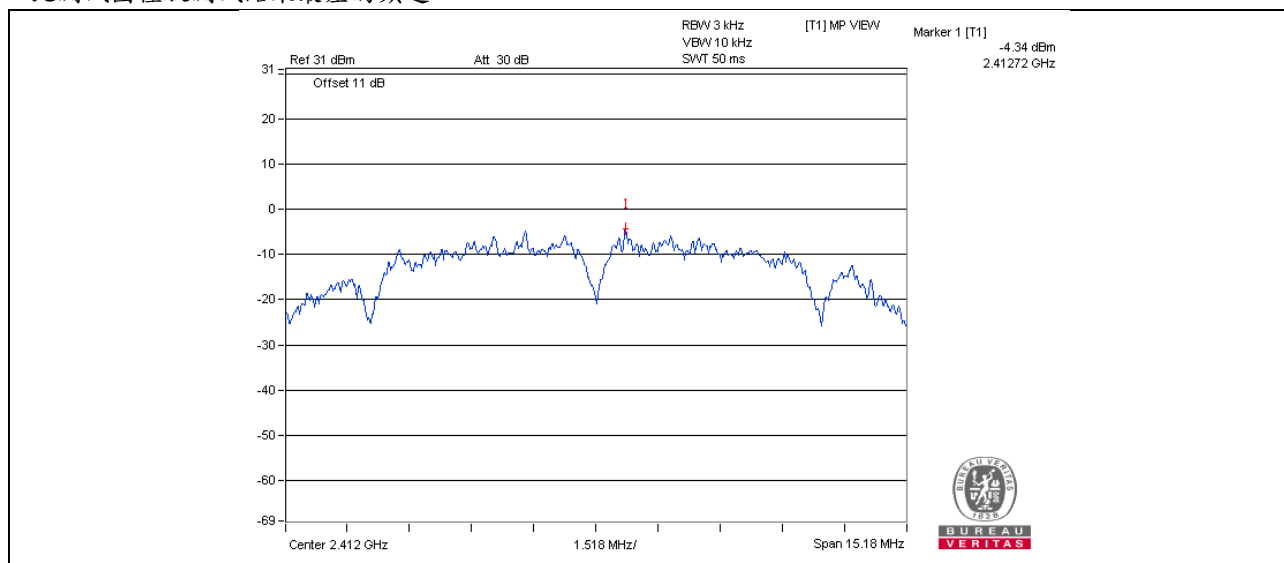
802.11n (HT40)

TX chain	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-16.77	3.01	-13.76	5.79	Pass
	6	2437	-17.13	3.01	-14.12	5.79	Pass
	9	2452	-19.31	3.01	-16.30	5.79	Pass
1	3	2422	-18.43	3.01	-15.42	5.79	Pass
	6	2437	-18.14	3.01	-15.13	5.79	Pass
	9	2452	-17.37	3.01	-14.36	5.79	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $5.2\text{dBi} + 10\log(2) = 8.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(8.21-6) = 5.79\text{dBm}$.

**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。

Note: 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

測試日期: 106 年 06 月 29 日 ~ 06 月 30 日

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 02, 2017	May 01, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	9120D	209	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2016	Aug. 10, 2017
Preamplifier Agilent	8447D	2944A10738	Aug. 22, 2016	Aug. 21, 2017
Preamplifier Agilent	8449B	3008A01922	Sep. 18, 2016	Sep. 17, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (214378)	Aug. 22, 2016	Aug. 21, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 106	Cable-CH3-03 (309224+12738)	Aug. 22, 2016	Aug. 21, 2017
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	0824012	Aug. 11, 2016	Aug. 10, 2017
Power Sensor	MA2411B	0738171	Aug. 11, 2016	Aug. 10, 2017

- Note: 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 HwaYa Chamber 3.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
5. The IC Site Registration No. is IC 7450F-3.
6. 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	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

測試日期: 106 年 10 月 24 日

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 02, 2017	May 01, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	9120D	209	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna TESEQ	HLA 6121	45745	May 19, 2017	May 18, 2018
Preamplifier Agilent	8449B	3008A01960	Aug. 08, 2017	Aug. 07, 2018
Preamplifier Agilent	8447D	2944A10631	Aug. 08, 2017	Aug. 07, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 08, 2017	Aug. 07, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 08, 2017	Aug. 07, 2018
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	0824012	Aug. 18, 2017	Aug. 17, 2018
Power Sensor	MA2411B	0738171	Aug. 18, 2017	Aug. 17, 2018

- Note: 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 HwaYa Chamber 3.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
5. The IC Site Registration No. is IC 7450F-3.
6. 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	30MHz ~ 200MHz	3.86 dB
	200MHz ~1000MHz	3.87 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

9.4 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 (dBμV/m)	AV:54 (dBμV/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(dBμV/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(dBμV/m) ^{*1} PK:105.2 (dBμV/m) ^{*2} PK: 110.8(dBμV/m) ^{*3} PK:122.2 (dBμV/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. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 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。

量測結果請見下頁。

9.6 量測結果

9.6.1 發射諧波

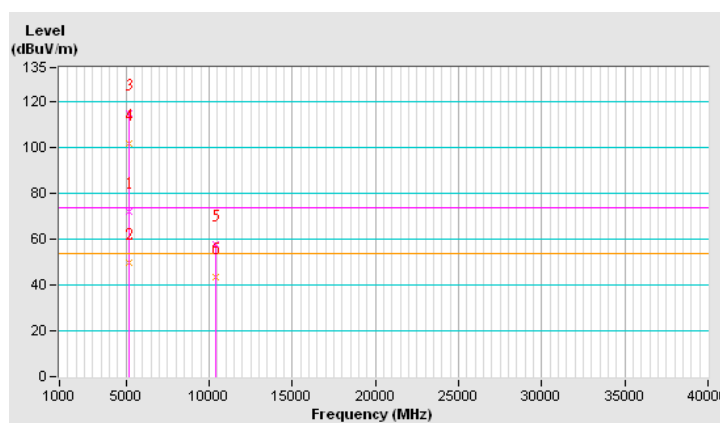
802.11a

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=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	72.1 PK	74.0	-1.9	2.18 H	87	68.5	3.6
2	5150.00	49.8 AV	54.0	-4.2	2.18 H	87	46.2	3.6
3	*5180.00	114.7 PK			1.38 H	15	75.2	39.5
4	*5180.00	101.7 AV			1.38 H	15	62.2	39.5
5	#10360.00	57.6 PK	74.0	-16.4	1.55 H	29	41.9	15.7
6	#10360.00	43.7 AV	54.0	-10.3	1.55 H	29	28.0	15.7
7	15540.00	-	-	-	-	-	-	-
8	20720.00	-	-	-	-	-	-	-
9	25900.00	-	-	-	-	-	-	-
10	31080.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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

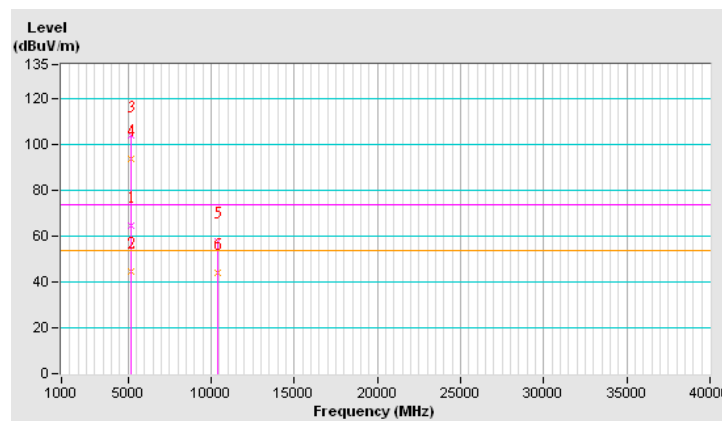


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36 : 5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106 年 10 月 24 日	測試者：	鄭詠璋

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	64.7 PK	74.0	-9.3	2.57 V	20	61.1	3.6
2	5150.00	44.9 AV	54.0	-9.1	2.57 V	20	41.3	3.6
3	*5180.00	104.2 PK			2.83 V	16	64.7	39.5
4	*5180.00	93.8 AV			2.83 V	16	54.3	39.5
5	#10360.00	57.8 PK	74.0	-16.2	1.97 V	58	42.1	15.7
6	#10360.00	44.2 AV	54.0	-9.8	1.97 V	58	28.5	15.7
7	15540.00							
8	20720.00	-	-	-	-	-	-	-
9	25900.00	-	-	-	-	-	-	-
10	31080.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



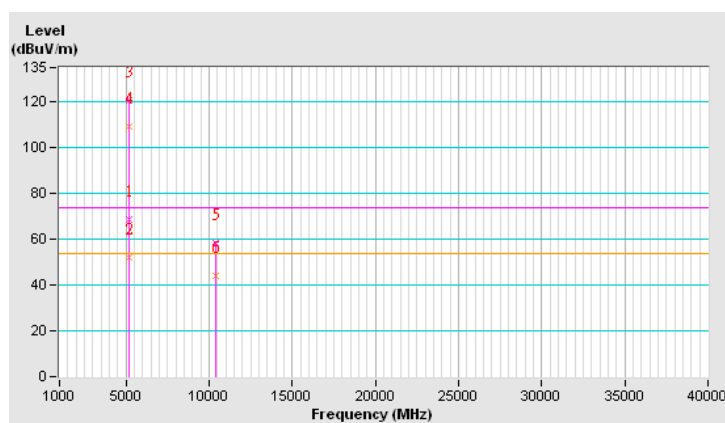
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	68.6 PK	74.0	-5.4	2.93 H	122	65.0	3.6
2	5150.00	51.8 AV	54.0	-2.2	2.93 H	122	48.2	3.6
3	*5200.00	120.7 PK			3.35 H	103	81.2	39.5
4	*5200.00	109.5 AV			3.35 H	103	70.0	39.5
5	#10400.00	58.2 PK	74.0	-15.8	2.91 H	111	42.6	15.6
6	#10400.00	44.2 AV	54.0	-9.8	2.91 H	111	28.6	15.6
7	15600.00	-	-	-	-	-	-	-
8	20800.00	-	-	-	-	-	-	-
9	26000.00	-	-	-	-	-	-	-
10	31200.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



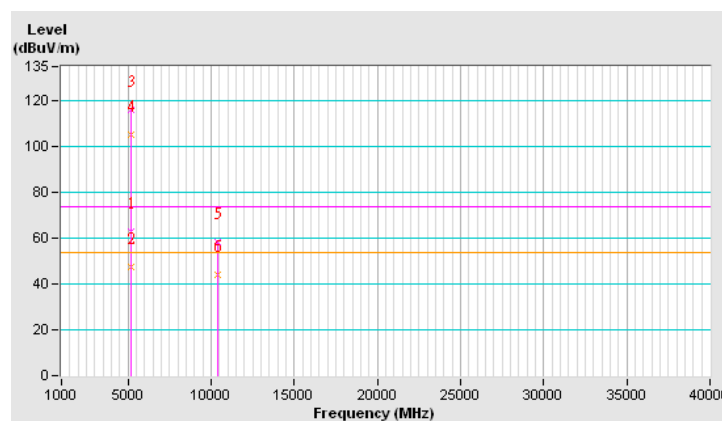
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	63.1 PK	74.0	-10.9	1.81 V	10	59.5	3.6
2	5150.00	47.7 AV	54.0	-6.3	1.81 V	10	44.1	3.6
3	*5200.00	116.4 PK			1.35 V	1	76.9	39.5
4	*5200.00	105.0 AV			1.35 V	1	65.5	39.5
5	#10400.00	58.1 PK	74.0	-15.9	1.93 V	203	42.5	15.6
6	#10400.00	43.9 AV	54.0	-10.1	1.93 V	203	28.3	15.6
7	15600.00	-	-	-	-	-	-	-
8	20800.00	-	-	-	-	-	-	-
9	26000.00	-	-	-	-	-	-	-
10	31200.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



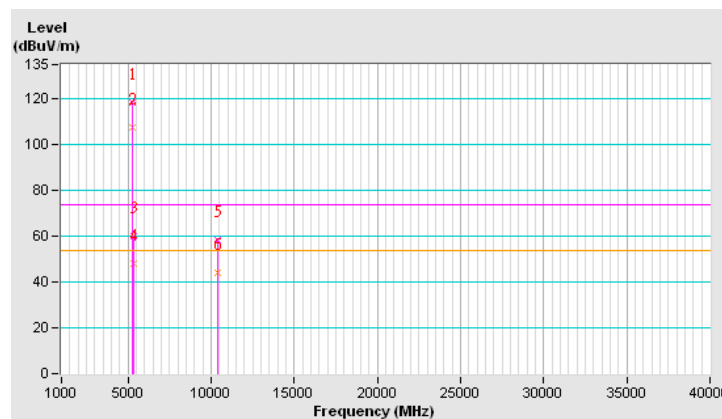
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	118.6 PK			2.14 H	301	79.1	39.5
2	*5240.00	107.3 AV			2.14 H	301	67.8	39.5
3	5350.00	60.3 PK	74.0	-13.7	2.14 H	29	56.4	3.9
4	5350.00	48.2 AV	54.0	-5.8	2.14 H	29	44.3	3.9
5	#10480.00	58.4 PK	74.0	-15.6	1.97 H	317	42.8	15.6
6	#10480.00	44.2 AV	54.0	-9.8	1.97 H	317	28.6	15.6
7	15720.00	-	-	-	-	-	-	-
8	20960.00	-	-	-	-	-	-	-
9	26200.00	-	-	-	-	-	-	-
10	31440.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



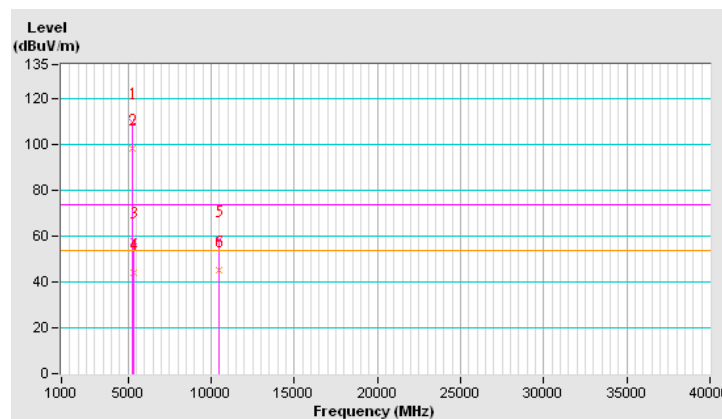
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48 : 5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106 年 10 月 24 日	測試者：	鄭詠璋

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	109.6 PK			1.40 V	1	70.1	39.5
2	*5240.00	98.4 AV			1.40 V	1	58.9	39.5
3	5350.00	57.9 PK	74.0	-16.1	1.69 V	22	54.0	3.9
4	5350.00	44.0 AV	54.0	-10.0	1.69 V	22	40.1	3.9
5	#10480.00	58.6 PK	74.0	-15.4	1.77 V	133	41.8	16.8
6	#10480.00	45.2 AV	54.0	-8.8	1.77 V	133	28.4	16.8
7	15720.00	-	-	-	-	-	-	-
8	20960.00	-	-	-	-	-	-	-
9	26200.00	-	-	-	-	-	-	-
10	31440.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



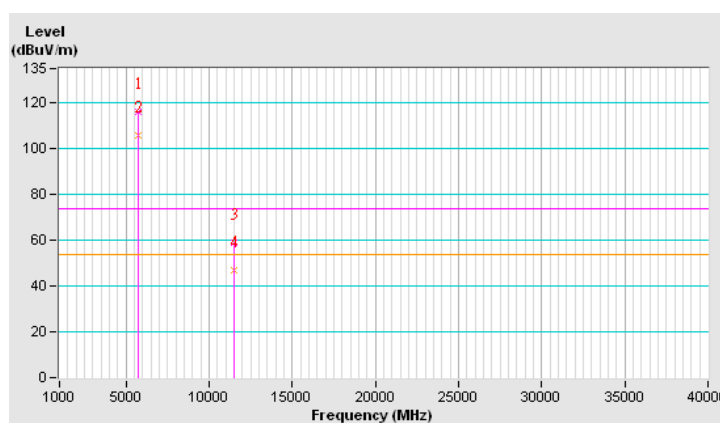
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	27°C	量測場地濕度：	66%RH
測試日期：	106年06月29日	測試者：	張仲志

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	*5745.00	116.0 PK			2.35 H	261	76.1	39.9
2	*5745.00	105.7 AV			2.35 H	261	65.8	39.9
3	11490.00	59.1 PK	74.0	-14.9	1.75 H	198	44.6	14.5
4	11490.00	47.1 AV	54.0	-6.9	1.75 H	198	32.6	14.5
5	17235.00	-	-	-	-	-	-	-
6	22980.00	-	-	-	-	-	-	-
7	28725.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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

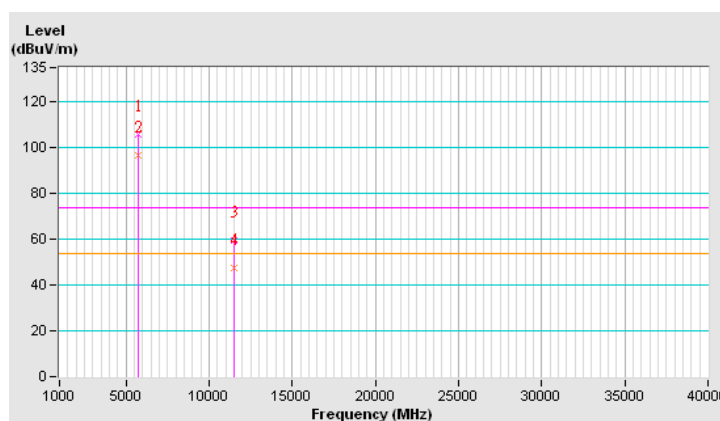


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	27°C	量測場地濕度：	66%RH
測試日期：	106年06月29日	測試者：	張仲志

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	*5745.00	106.0 PK			3.38 V	36	66.1	39.9
2	*5745.00	96.9 AV			3.38 V	36	57.0	39.9
3	11490.00	59.4 PK	74.0	-14.6	2.89 V	144	44.9	14.5
4	11490.00	47.4 AV	54.0	-6.6	2.89 V	144	32.9	14.5
5	17235.00	-	-	-	-	-	-	-
6	22980.00	-	-	-	-	-	-	-
7	28725.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



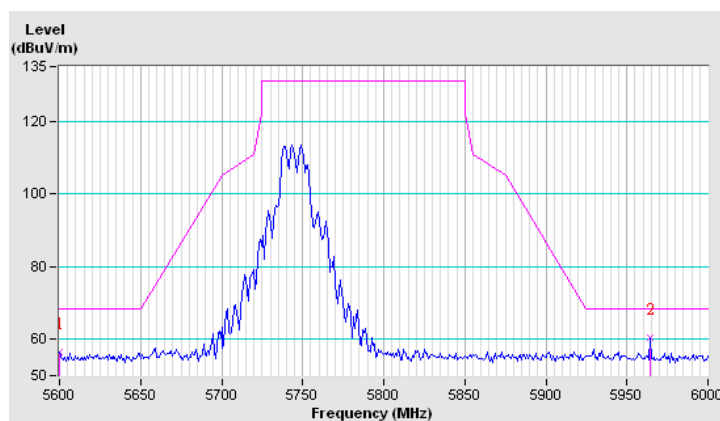
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	#5600.00	56.4 PK	68.2	-11.8	2.35 H	261	54.9	1.5
2	#5964.00	60.5 PK	68.2	-7.7	2.35 H	261	57.8	2.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



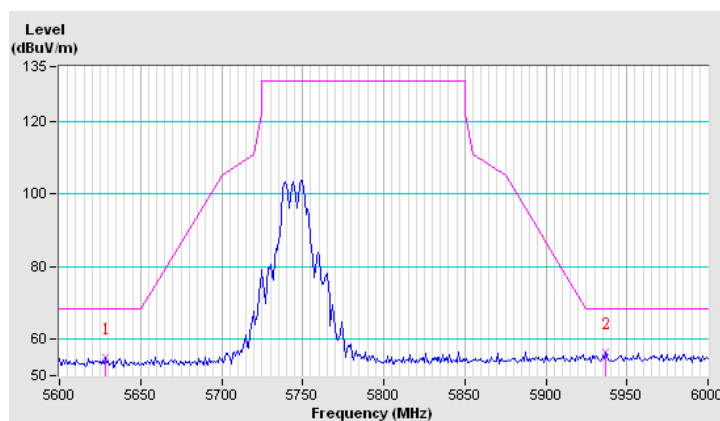
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149: 5745 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	#5628.00	55.1 PK	68.2	-13.1	3.38 V	36	53.4	1.7
2	#5936.80	56.4 PK	68.2	-11.8	3.38 V	36	53.8	2.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



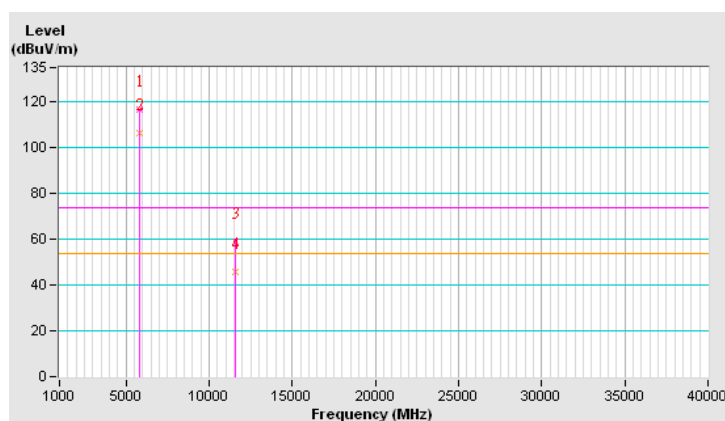
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	*5785.00	116.7 PK			2.38 H	262	76.6	40.1
2	*5785.00	106.6 AV			2.38 H	262	66.5	40.1
3	11570.00	58.8 PK	74.0	-15.2	2.33 H	135	44.5	14.3
4	11570.00	45.7 AV	54.0	-8.3	2.33 H	135	31.4	14.3
5	17355.00	-	-	-	-	-	-	-
6	23140.00	-	-	-	-	-	-	-
7	28925.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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

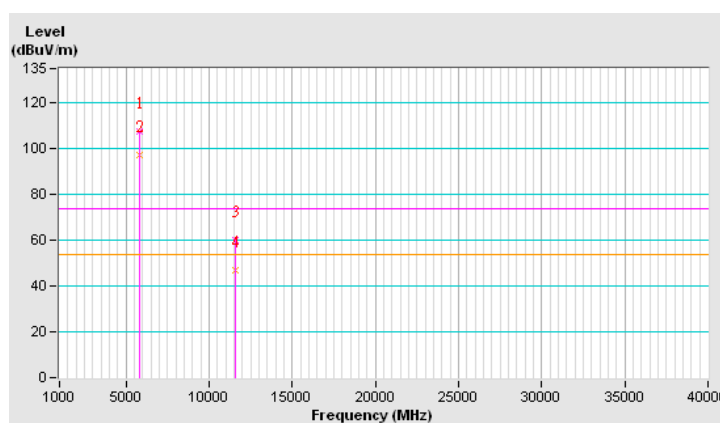


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	*5785.00	107.3 PK			3.41 V	345	67.2	40.1
2	*5785.00	97.4 AV			3.41 V	345	57.3	40.1
3	11570.00	59.9 PK	74.0	-14.1	2.44 V	256	45.6	14.3
4	11570.00	46.9 AV	54.0	-7.1	2.44 V	256	32.6	14.3
5	17355.00	-	-	-	-	-	-	-
6	23140.00	-	-	-	-	-	-	-
7	28925.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



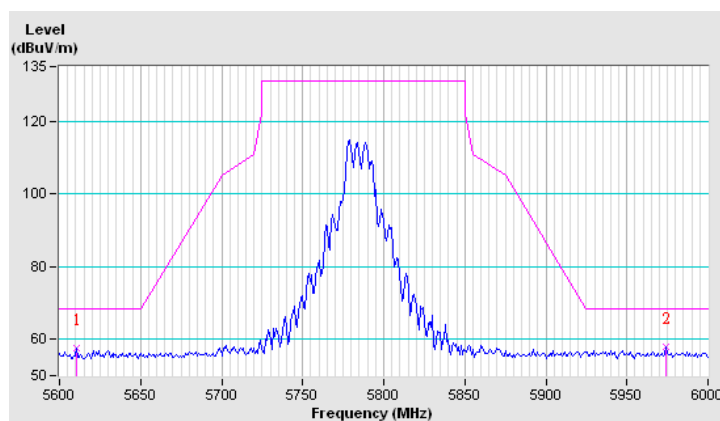
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157: 5785 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	#5610.40	57.4 PK	68.2	-10.8	2.38 H	262	55.7	1.7
2	#5974.40	57.8 PK	68.2	-10.4	2.38 H	262	55.1	2.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



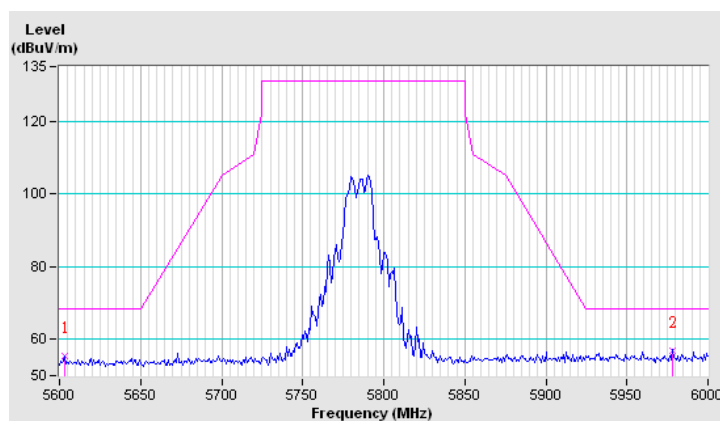
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157: 5785 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	#5603.20	55.3 PK	68.2	-12.9	3.41 V	345	53.6	1.7
2	#5978.40	57.0 PK	68.2	-11.2	3.41 V	345	54.2	2.8

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



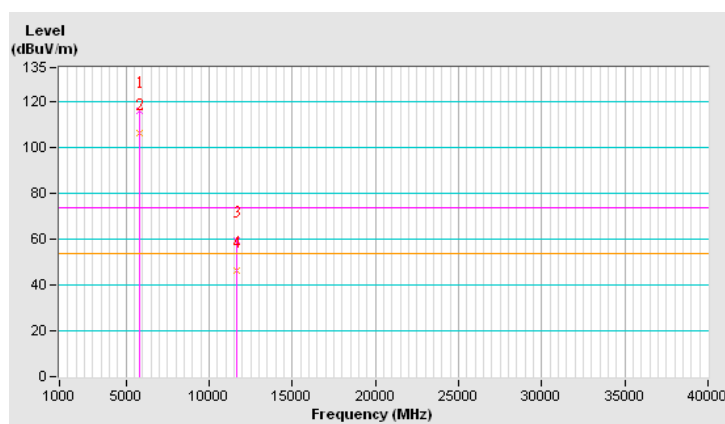
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	*5825.00	116.0 PK			2.29 H	264	75.8	40.2
2	*5825.00	106.2 AV			2.29 H	264	66.0	40.2
3	11650.00	59.7 PK	74.0	-14.3	2.40 H	160	45.3	14.4
4	11650.00	46.4 AV	54.0	-7.6	2.40 H	160	32.0	14.4
5	17475.00	-	-	-	-	-	-	-
6	23300.00	-	-	-	-	-	-	-
7	29125.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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

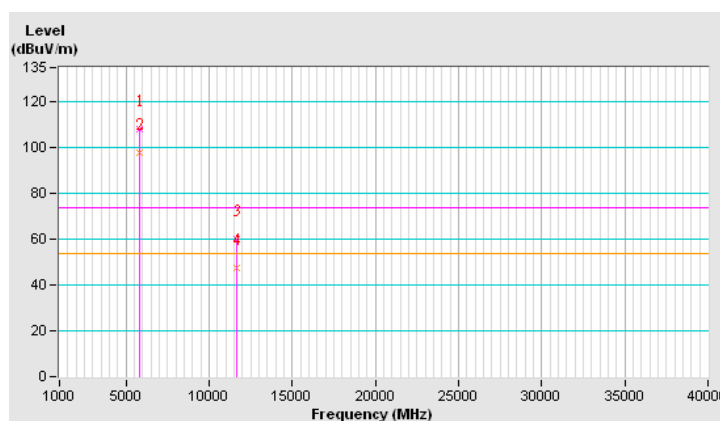


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	*5825.00	108.1 PK			3.50 V	9	67.9	40.2
2	*5825.00	98.1 AV			3.50 V	9	57.9	40.2
3	11650.00	60.0 PK	74.0	-14.0	2.50 V	349	45.6	14.4
4	11650.00	47.4 AV	54.0	-6.6	2.50 V	349	33.0	14.4
5	17475.00	-	-	-	-	-	-	-
6	23300.00	-	-	-	-	-	-	-
7	29125.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



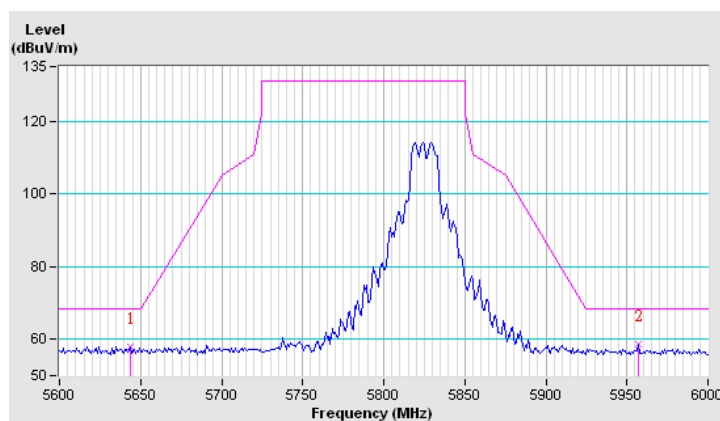
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165 : 5825 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	#5644.00	58.1 PK	68.2	-10.1	2.29 H	264	56.4	1.7
2	#5956.80	58.5 PK	68.2	-9.7	2.29 H	264	55.9	2.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



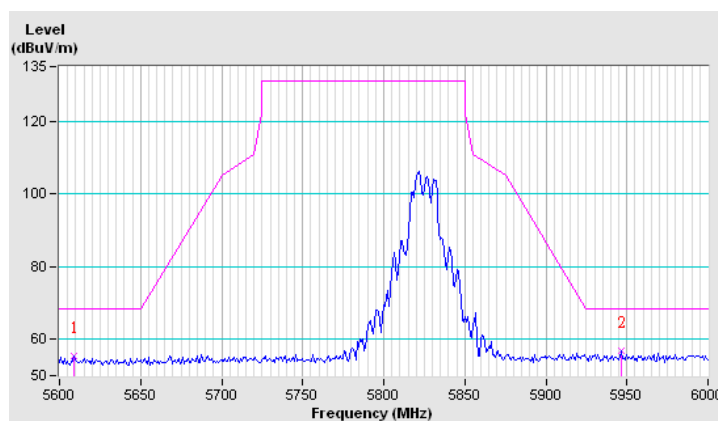
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165 : 5825 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	#5608.80	55.5 PK	68.2	-12.7	3.50 V	9	53.8	1.7
2	#5946.40	56.8 PK	68.2	-11.4	3.50 V	9	54.2	2.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



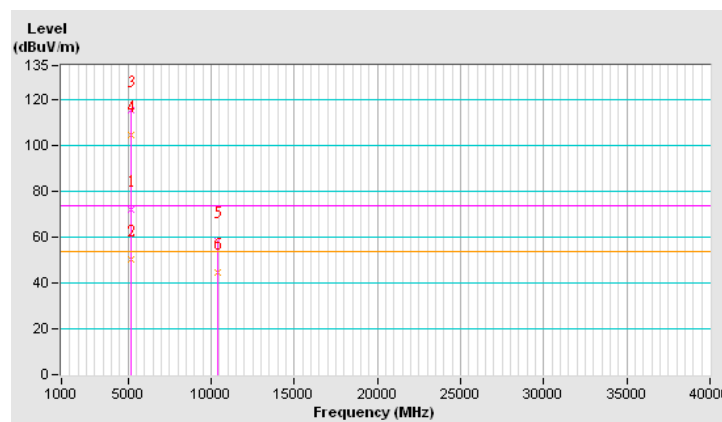
802.11n (HT20)

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=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	72.2 PK	74.0	-1.8	2.23 H	259	68.6	3.6
2	5150.00	50.3 AV	54.0	-3.7	2.23 H	259	46.7	3.6
3	*5180.00	115.8 PK			2.27 H	92	76.3	39.5
4	*5180.00	104.8 AV			2.27 H	92	65.3	39.5
5	#10360.00	58.2 PK	74.0	-15.8	2.93 H	111	42.5	15.7
6	#10360.00	44.5 AV	54.0	-9.5	2.93 H	111	28.8	15.7
7	15540.00	-	-	-	-	-	-	-
8	20720.00	-	-	-	-	-	-	-
9	25900.00	-	-	-	-	-	-	-
10	31080.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



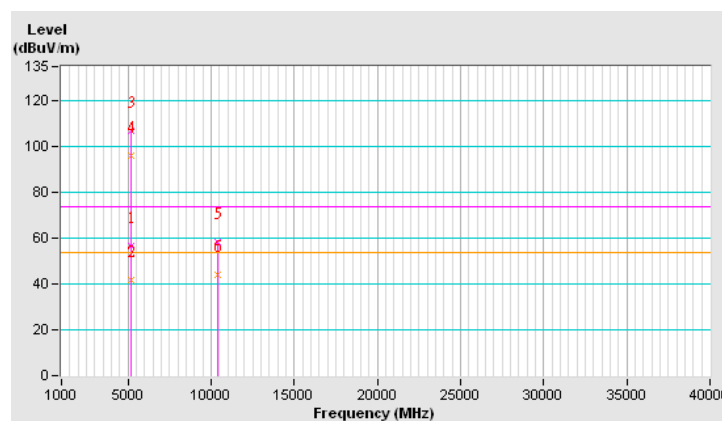
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36 : 5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106 年 10 月 24 日	測試者：	鄭詠璋

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	56.6 PK	74.0	-17.4	1.85 V	303	53.0	3.6
2	5150.00	41.8 AV	54.0	-12.2	1.85 V	303	38.2	3.6
3	*5180.00	106.8 PK			2.36 V	170	67.3	39.5
4	*5180.00	96.2 AV			2.36 V	170	56.7	39.5
5	#10360.00	58.4 PK	74.0	-15.6	2.11 V	293	42.7	15.7
6	#10360.00	43.9 AV	54.0	-10.1	2.11 V	293	28.2	15.7
7	15540.00	-	-	-	-	-	-	-
8	20720.00	-	-	-	-	-	-	-
9	25900.00	-	-	-	-	-	-	-
10	31080.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



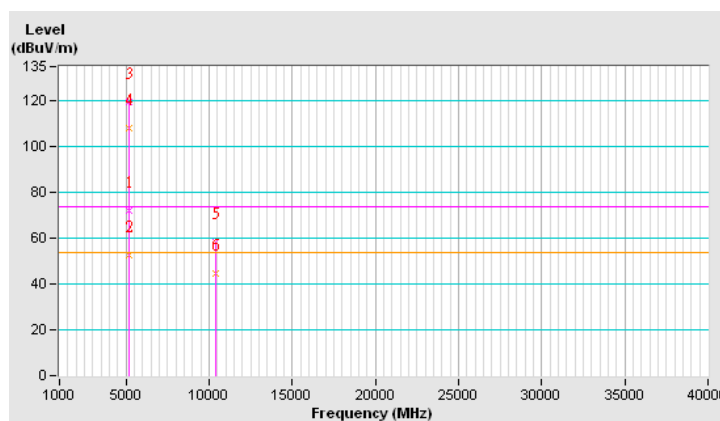
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	71.9 PK	74.0	-2.1	2.25 H	104	68.3	3.6
2	5150.00	52.7 AV	54.0	-1.3	2.25 H	104	49.1	3.6
3	*5200.00	119.3 PK			2.52 H	258	79.8	39.5
4	*5200.00	108.3 AV			2.52 H	258	68.8	39.5
5	#10400.00	58.1 PK	74.0	-15.9	1.97 H	199	42.5	15.6
6	#10400.00	44.5 AV	54.0	-9.5	1.97 H	199	28.9	15.6
7	15600.00	-	-	-	-	-	-	-
8	20800.00	-	-	-	-	-	-	-
9	26000.00	-	-	-	-	-	-	-
10	31200.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



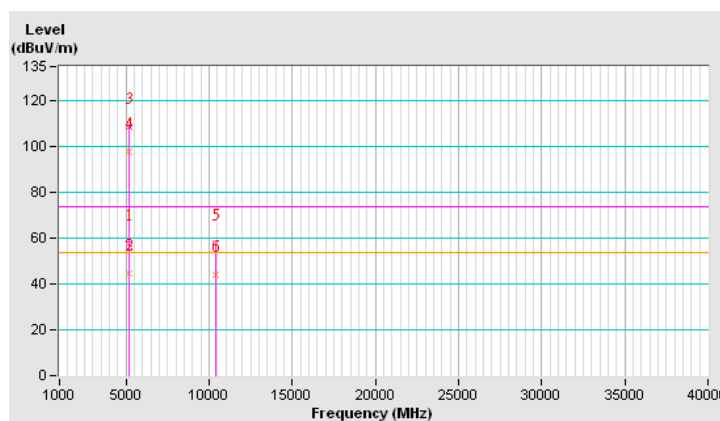
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	57.8 PK	74.0	-16.2	1.93 V	254	54.2	3.6
2	5150.00	44.9 AV	54.0	-9.1	1.93 V	254	41.3	3.6
3	*5200.00	108.8 PK			2.78 V	243	69.3	39.5
4	*5200.00	97.7 AV			2.78 V	243	58.2	39.5
5	#10400.00	57.6 PK	74.0	-16.4	2.02 V	233	42.0	15.6
6	#10400.00	44.0 AV	54.0	-10.0	2.02 V	233	28.4	15.6
7	15600.00	-	-	-	-	-	-	-
8	20800.00	-	-	-	-	-	-	-
9	26000.00	-	-	-	-	-	-	-
10	31200.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



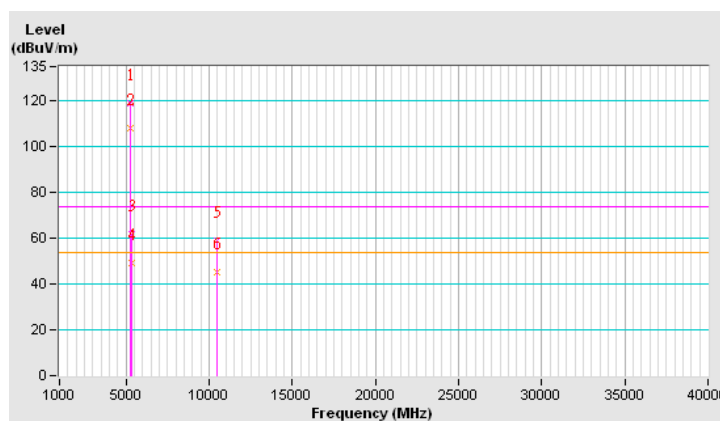
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	119.1 PK			2.76 H	252	79.6	39.5
2	*5240.00	108.2 AV			2.76 H	252	68.7	39.5
3	5350.00	61.6 PK	74.0	-12.4	2.66 H	300	57.7	3.9
4	5350.00	49.4 AV	54.0	-4.6	2.66 H	300	45.5	3.9
5	#10480.00	58.7 PK	74.0	-15.3	2.22 H	293	41.9	16.8
6	#10480.00	45.3 AV	54.0	-8.7	2.22 H	293	28.5	16.8
7	15720.00	-	-	-	-	-	-	-
8	20960.00	-	-	-	-	-	-	-
9	26200.00	-	-	-	-	-	-	-
10	31440.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



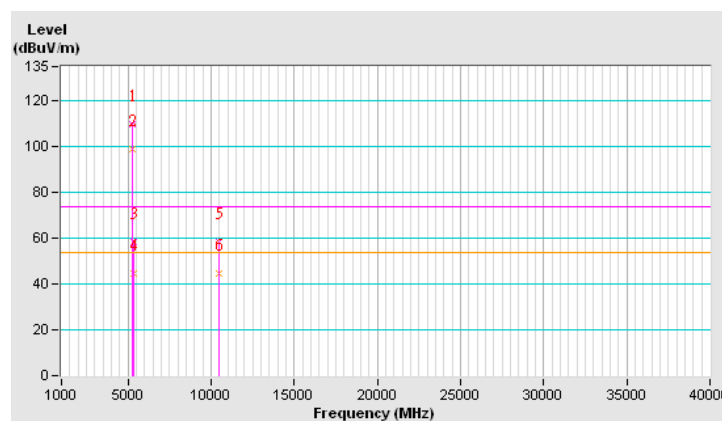
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	109.9 PK			3.58 V	35	70.4	39.5
2	*5240.00	99.0 AV			3.58 V	35	59.5	39.5
3	5350.00	58.3 PK	74.0	-15.7	2.02 V	293	54.4	3.9
4	5350.00	44.9 AV	54.0	-9.1	2.02 V	293	41.0	3.9
5	#10480.00	58.3 PK	74.0	-15.7	2.22 V	333	41.5	16.8
6	#10480.00	44.9 AV	54.0	-9.1	2.22 V	333	28.1	16.8
7	15720.00	-	-	-	-	-	-	-
8	20960.00	-	-	-	-	-	-	-
9	26200.00	-	-	-	-	-	-	-
10	31440.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



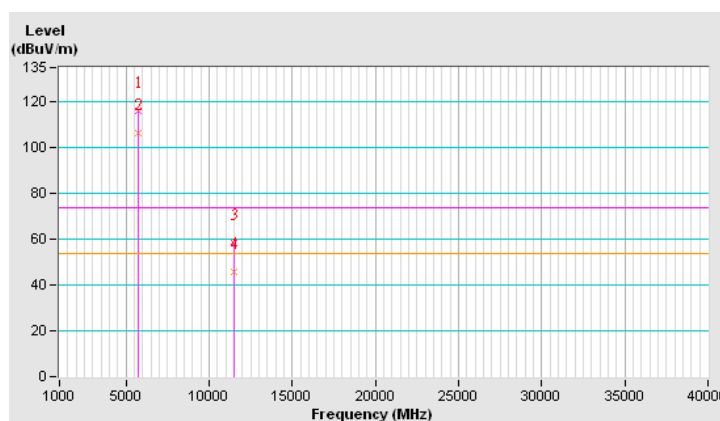
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	*5745.00	116.4 PK			2.46 H	262	76.5	39.9
2	*5745.00	106.6 AV			2.46 H	262	66.7	39.9
3	11490.00	58.5 PK	74.0	-15.5	1.96 H	162	44.0	14.5
4	11490.00	45.9 AV	54.0	-8.1	1.96 H	162	31.4	14.5
5	17235.00	-	-	-	-	-	-	-
6	22980.00	-	-	-	-	-	-	-
7	28725.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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

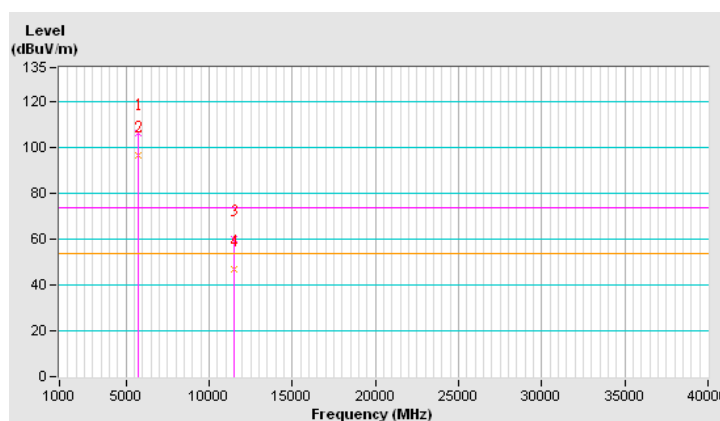


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	*5745.00	106.6 PK			3.40 V	36	66.7	39.9
2	*5745.00	96.6 AV			3.40 V	36	56.7	39.9
3	11490.00	59.8 PK	74.0	-14.2	2.40 V	336	45.3	14.5
4	11490.00	47.1 AV	54.0	-6.9	2.40 V	336	32.6	14.5
5	17235.00	-	-	-	-	-	-	-
6	22980.00	-	-	-	-	-	-	-
7	28725.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



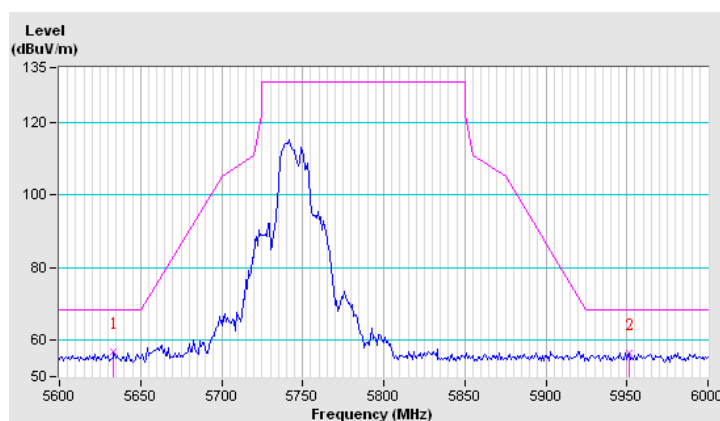
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	#5633.60	56.8 PK	68.2	-11.4	2.46 H	262	55.1	1.7
2	#5951.20	56.5 PK	68.2	-11.7	2.46 H	262	53.9	2.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



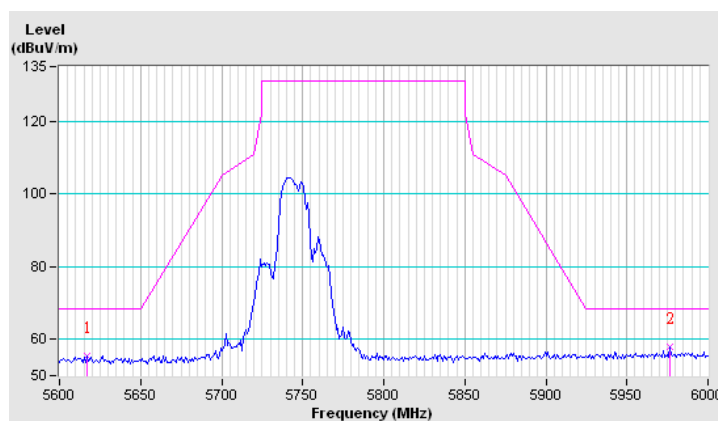
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	#5616.80	55.3 PK	68.2	-12.9	3.40 V	36	53.6	1.7
2	#5976.80	57.9 PK	68.2	-10.3	3.40 V	36	55.1	2.8

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



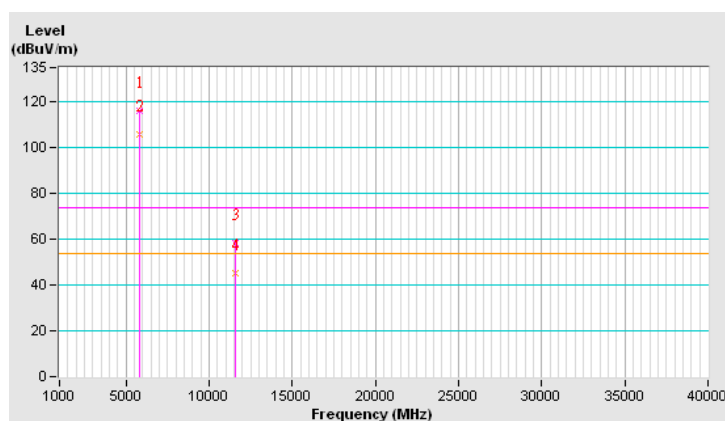
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	*5785.00	116.0 PK			2.33 H	260	75.9	40.1
2	*5785.00	106.0 AV			2.33 H	260	65.9	40.1
3	11570.00	58.5 PK	74.0	-15.5	1.89 H	177	44.2	14.3
4	11570.00	45.3 AV	54.0	-8.7	1.89 H	177	31.0	14.3
5	17355.00	-	-	-	-	-	-	-
6	23140.00	-	-	-	-	-	-	-
7	28925.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



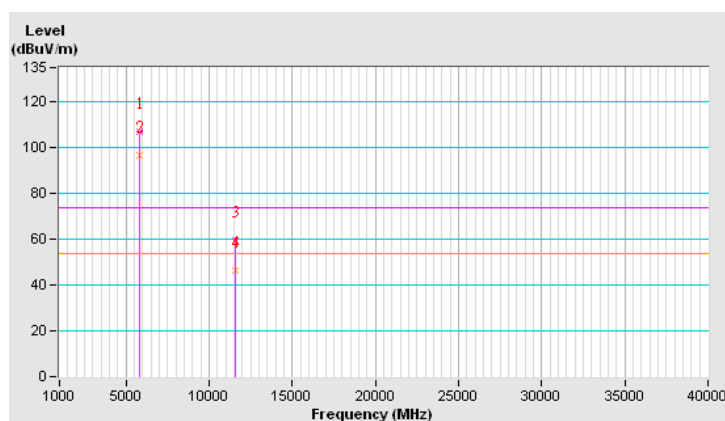
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	*5785.00	106.7 PK			3.33 V	7	66.6	40.1
2	*5785.00	96.7 AV			3.33 V	7	56.6	40.1
3	11570.00	59.3 PK	74.0	-14.7	2.32 V	260	45.0	14.3
4	11570.00	46.6 AV	54.0	-7.4	2.32 V	260	32.3	14.3
5	17355.00	-	-	-	-	-	-	-
6	23140.00	-	-	-	-	-	-	-
7	28925.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



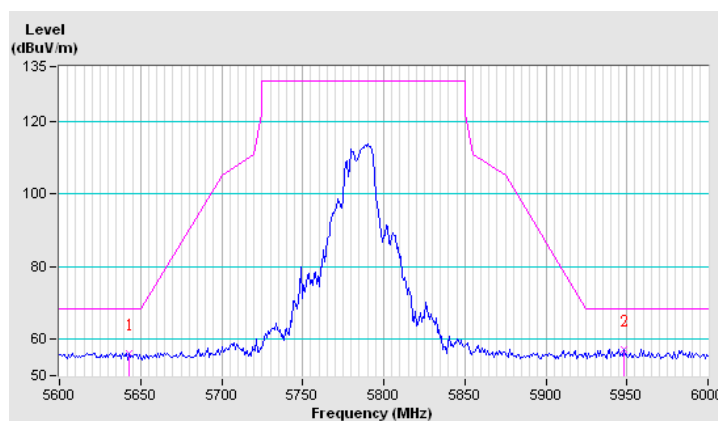
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157: 5785 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	#5643.20	56.3 PK	68.2	-11.9	2.33 H	260	54.6	1.7
2	#5948.00	57.3 PK	68.2	-10.9	2.33 H	260	54.7	2.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



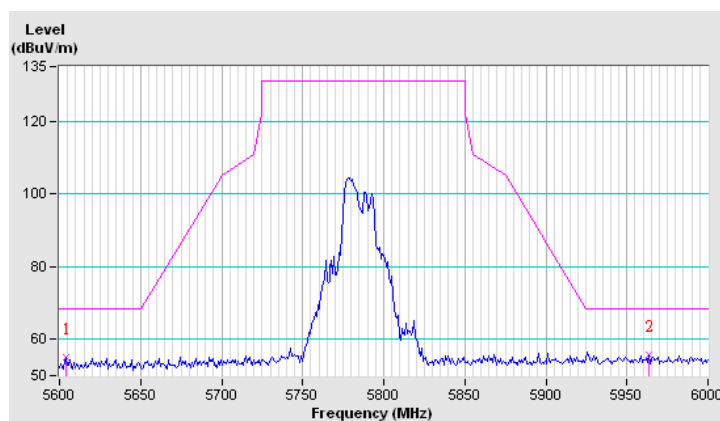
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157: 5785 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	#5604.00	55.0 PK	68.2	-13.2	3.33 V	7	53.3	1.7
2	#5963.20	55.7 PK	68.2	-12.5	3.33 V	7	53.1	2.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



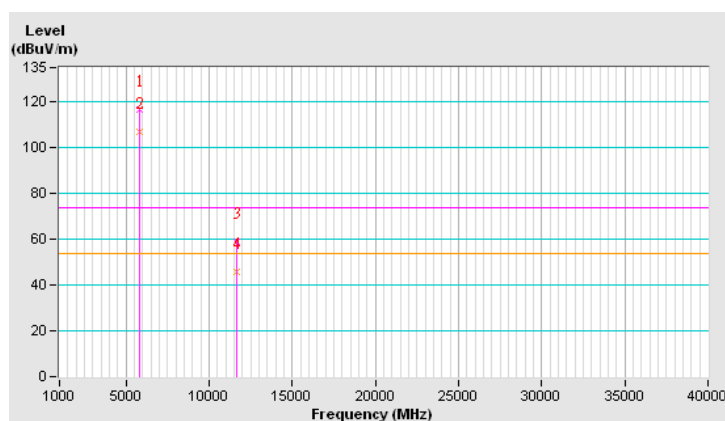
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	*5825.00	116.6 PK			2.38 H	262	76.4	40.2
2	*5825.00	106.7 AV			2.38 H	262	66.5	40.2
3	11650.00	58.9 PK	74.0	-15.1	2.00 H	180	44.5	14.4
4	11650.00	45.7 AV	54.0	-8.3	2.00 H	180	31.3	14.4
5	17475.00	-	-	-	-	-	-	-
6	23300.00	-	-	-	-	-	-	-
7	29125.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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

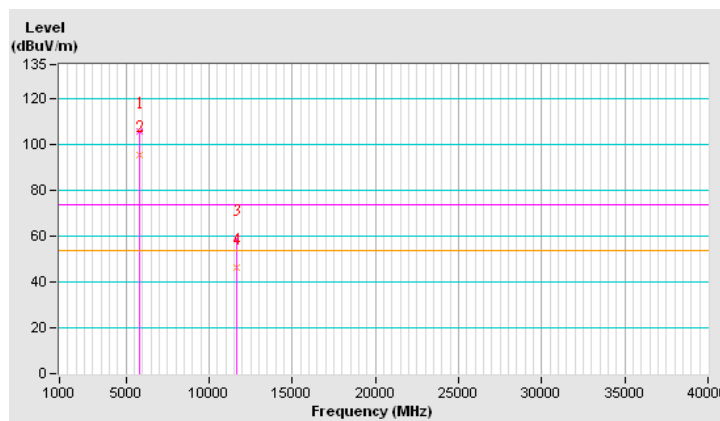


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	*5825.00	105.8 PK			3.45 V	40	65.6	40.2
2	*5825.00	95.8 AV			3.45 V	40	55.6	40.2
3	11650.00	59.2 PK	74.0	-14.8	2.15 V	330	44.8	14.4
4	11650.00	46.2 AV	54.0	-7.8	2.15 V	330	31.8	14.4
5	17475.00	-	-	-	-	-	-	-
6	23300.00	-	-	-	-	-	-	-
7	29125.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



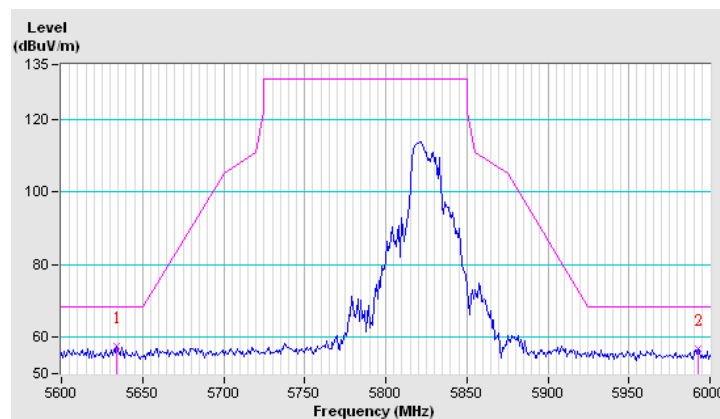
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165 : 5825 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	#5634.40	57.5 PK	68.2	-10.7	2.38 H	262	55.8	1.7
2	#5992.80	56.8 PK	68.2	-11.4	2.38 H	262	54.0	2.8

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



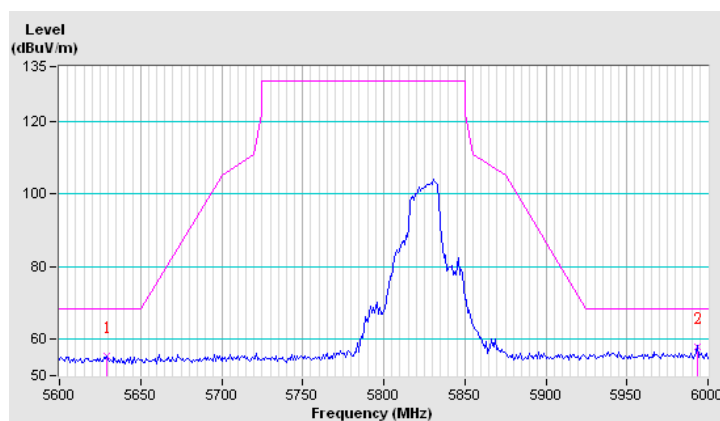
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165 : 5825 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	#5628.80	55.3 PK	68.2	-12.9	3.45 V	40	53.6	1.7
2	#5993.60	58.1 PK	68.2	-10.1	3.45 V	40	55.3	2.8

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



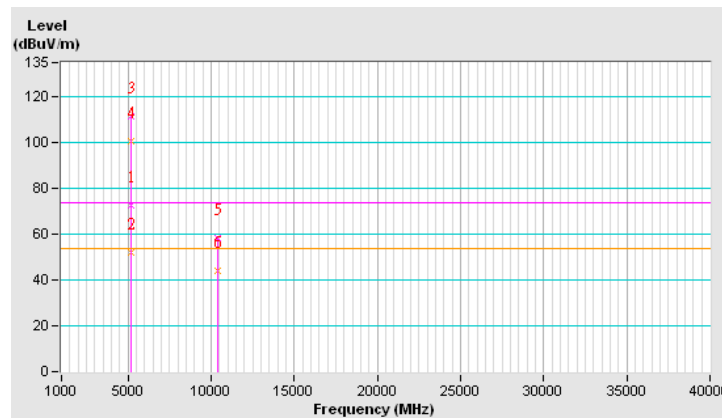
802.11n (HT40)

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=3kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	72.6 PK	74.0	-1.4	2.39 H	279	69.0	3.6
2	5150.00	52.0 AV	54.0	-2.0	2.39 H	279	48.4	3.6
3	*5190.00	111.3 PK			2.42 H	241	71.8	39.5
4	*5190.00	100.5 AV			2.42 H	241	61.0	39.5
5	#10380.00	58.1 PK	74.0	-15.9	1.99 H	287	42.4	15.7
6	#10380.00	44.3 AV	54.0	-9.7	1.99 H	287	28.6	15.7
7	15570.00	-	-	-	-	-	-	-
8	20760.00	-	-	-	-	-	-	-
9	25950.00	-	-	-	-	-	-	-
10	31140.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



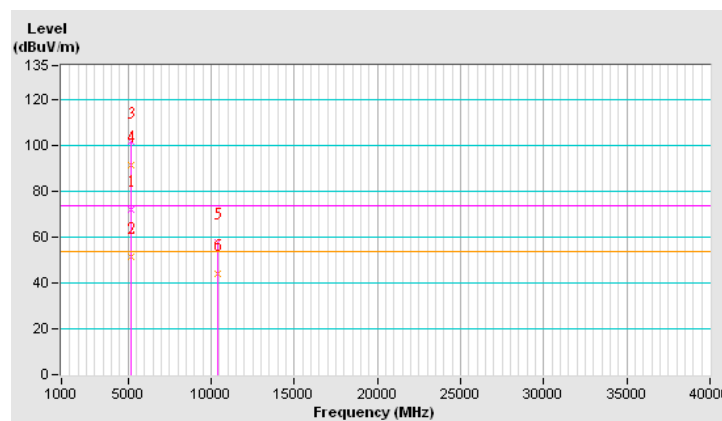
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 38 : 5190 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106 年 10 月 24 日	測試者：	鄭詠璋

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	71.8 PK	74.0	-2.2	3.55 V	196	68.2	3.6
2	5150.00	51.7 AV	54.0	-2.3	3.55 V	196	48.1	3.6
3	*5190.00	102.0 PK			3.58 V	9	62.5	39.5
4	*5190.00	91.3 AV			3.58 V	9	51.8	39.5
5	#10380.00	57.6 PK	74.0	-16.4	2.93 V	111	41.9	15.7
6	#10380.00	43.8 AV	54.0	-10.2	2.93 V	111	28.1	15.7
7	15570.00	-	-	-	-	-	-	-
8	20760.00	-	-	-	-	-	-	-
9	25950.00	-	-	-	-	-	-	-
10	31140.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



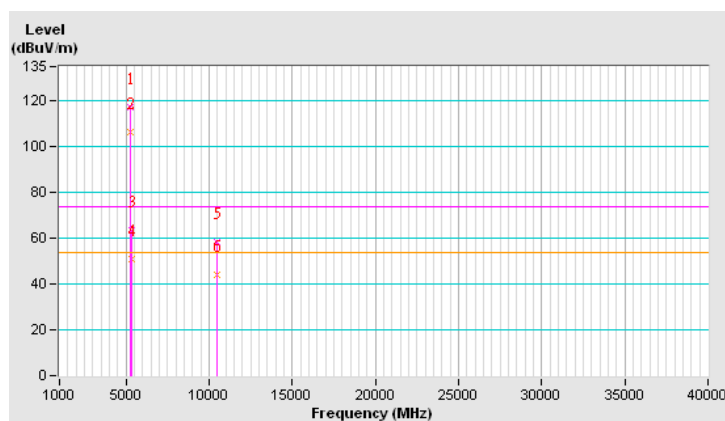
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	*5230.00	117.3 PK			2.37 H	246	77.8	39.5
2	*5230.00	106.5 AV			2.37 H	246	67.0	39.5
3	5350.00	63.6 PK	74.0	-10.4	2.35 H	246	59.7	3.9
4	5350.00	50.9 AV	54.0	-3.1	2.35 H	246	47.0	3.9
5	#10460.00	58.1 PK	74.0	-15.9	2.11 H	269	41.7	16.4
6	#10460.00	44.0 AV	54.0	-10.0	2.11 H	269	27.6	16.4
7	15690.00	-	-	-	-	-	-	-
8	20920.00	-	-	-	-	-	-	-
9	26150.00	-	-	-	-	-	-	-
10	31380.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



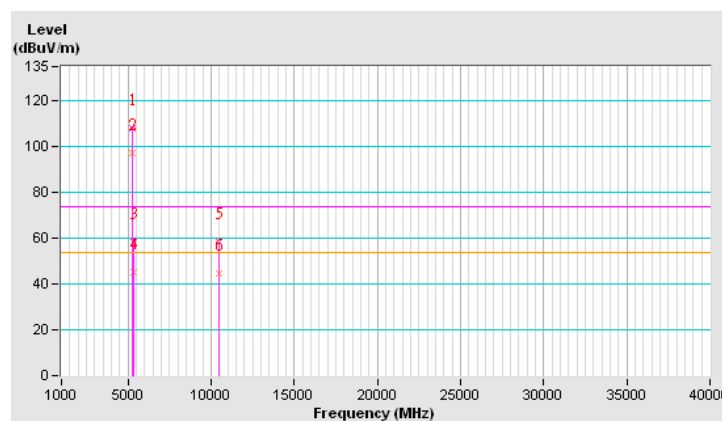
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	106年10月24日	測試者：	鄭詠璋

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	*5230.00	107.9 PK			3.62 V	34	68.4	39.5
2	*5230.00	97.0 AV			3.62 V	34	57.5	39.5
3	5350.00	58.6 PK	74.0	-15.4	3.33 V	63	54.7	3.9
4	5350.00	45.2 AV	54.0	-8.8	3.33 V	63	41.3	3.9
5	#10460.00	58.5 PK	74.0	-15.5	2.93 V	111	42.1	16.4
6	#10460.00	44.5 AV	54.0	-9.5	2.93 V	111	28.1	16.4
7	15690.00	-	-	-	-	-	-	-
8	20920.00	-	-	-	-	-	-	-
9	26150.00	-	-	-	-	-	-	-
10	31380.00	-	-	-	-	-	-	-
11	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



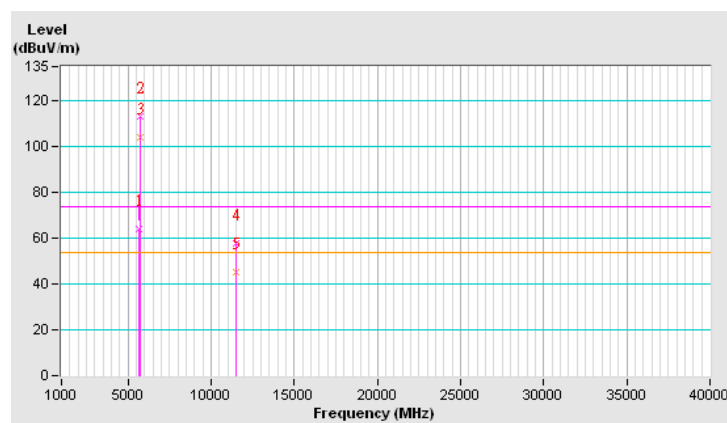
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	#5650.00	64.2 PK	68.2	-4.0	2.40 H	268	62.5	1.7
2	*5755.00	113.2 PK			2.41 H	264	73.3	39.9
3	*5755.00	104.0 AV			2.41 H	264	64.1	39.9
4	11510.00	58.0 PK	74.0	-16.0	1.69 H	64	43.5	14.5
5	11510.00	45.3 AV	54.0	-8.7	1.69 H	64	30.8	14.5
6	17265.00	-	-	-	-	-	-	-
7	23020.00	-	-	-	-	-	-	-
8	28775.00	-	-	-	-	-	-	-
9	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



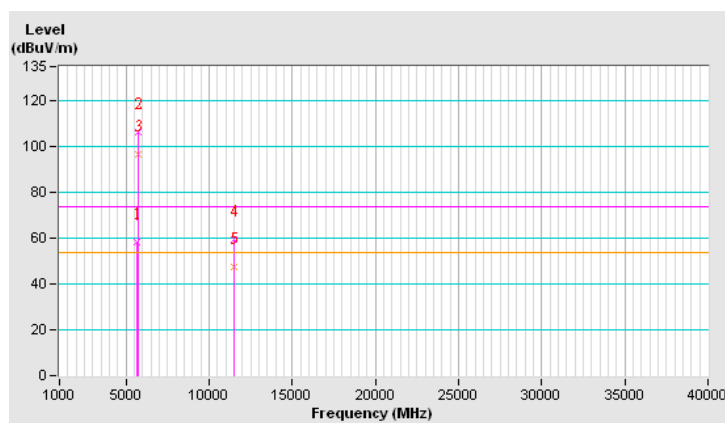
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	#5650.00	58.3 PK	68.2	-9.9	3.13 V	160	56.6	1.7
2	*5755.00	106.6 PK			3.43 V	259	66.7	39.9
3	*5755.00	96.7 AV			3.43 V	259	56.8	39.9
4	11510.00	59.5 PK	74.0	-14.5	2.33 V	30	45.0	14.5
5	11510.00	47.5 AV	54.0	-6.5	2.33 V	30	33.0	14.5
6	17265.00	-	-	-	-	-	-	-
7	23020.00	-	-	-	-	-	-	-
8	28775.00	-	-	-	-	-	-	-
9	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



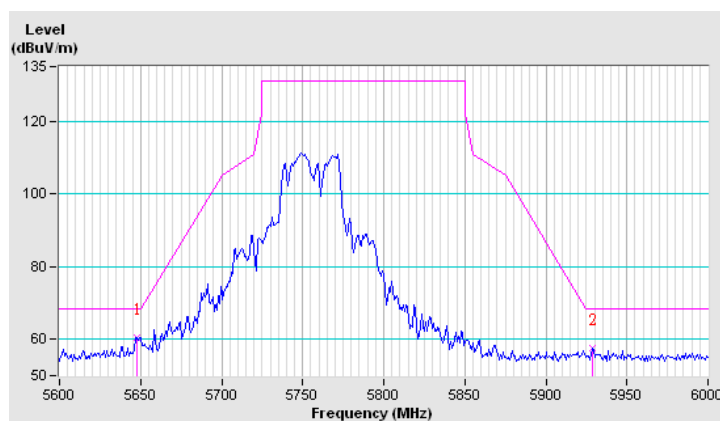
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151 : 5755 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	#5648.00	60.6 PK	68.2	-7.6	2.41 H	264	58.9	1.7
2	#5928.80	57.5 PK	68.2	-10.7	2.41 H	264	54.9	2.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



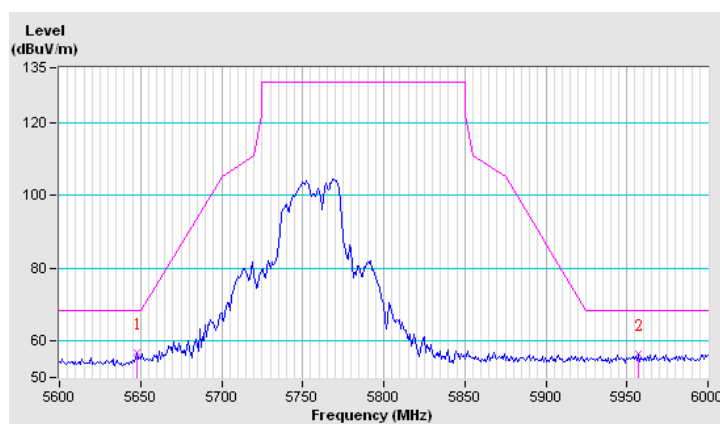
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151 : 5755 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	#5648.00	56.8 PK	68.2	-11.4	3.43 V	259	55.1	1.7
2	#5956.80	56.5 PK	68.2	-11.7	3.43 V	259	53.9	2.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



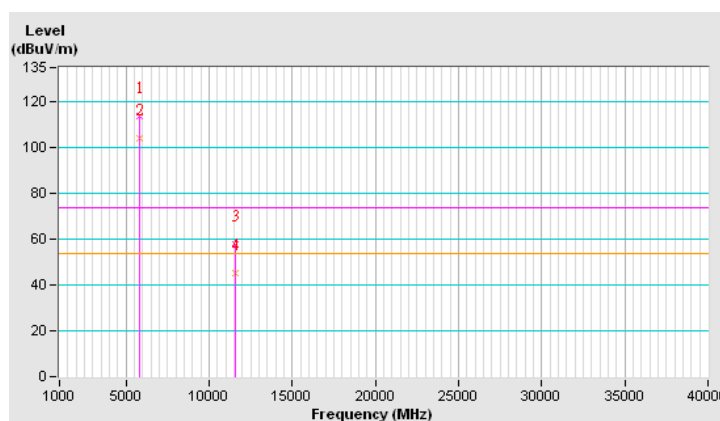
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159：5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月29日	測試者：	張仲志

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	*5795.00	114.0 PK			2.45 H	264	73.9	40.1
2	*5795.00	103.9 AV			2.45 H	264	63.8	40.1
3	11590.00	57.9 PK	74.0	-16.1	1.89 H	26	43.6	14.3
4	11590.00	45.0 AV	54.0	-9.0	1.89 H	26	30.7	14.3
5	17385.00	-	-	-	-	-	-	-
6	23180.00	-	-	-	-	-	-	-
7	28975.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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

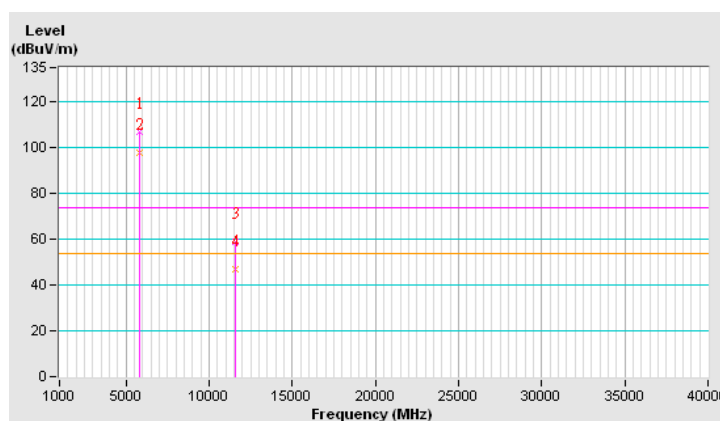


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159 : 5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	*5795.00	107.0 PK			3.38 V	267	66.9	40.1
2	*5795.00	98.0 AV			3.38 V	267	57.9	40.1
3	11590.00	58.9 PK	74.0	-15.1	2.29 V	19	44.6	14.3
4	11590.00	47.0 AV	54.0	-7.0	2.29 V	19	32.7	14.3
5	17385.00	-	-	-	-	-	-	-
6	23180.00	-	-	-	-	-	-	-
7	28975.00	-	-	-	-	-	-	-
8	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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



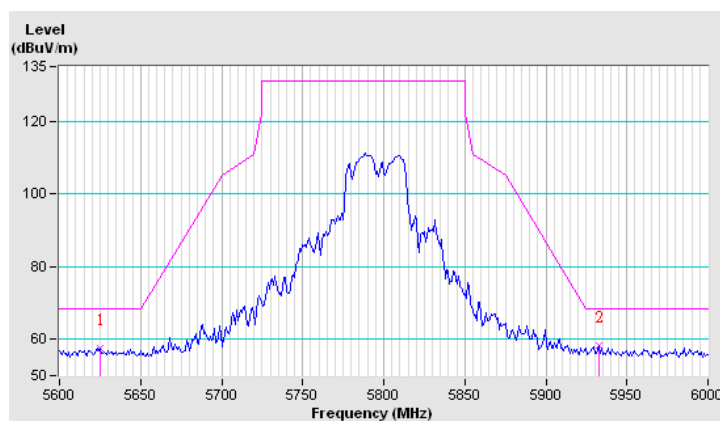
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159 : 5795 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	#5624.80	57.6 PK	68.2	-10.6	2.45 H	264	55.9	1.7
2	#5932.80	58.4 PK	68.2	-9.8	2.45 H	264	55.8	2.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



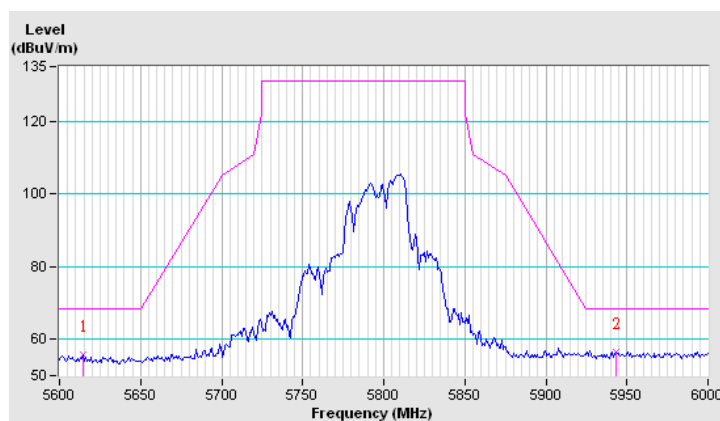
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159 : 5795 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106 年 06 月 29 日	測試者：	張仲志

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	#5614.40	55.7 PK	68.2	-12.5	3.38 V	267	54.0	1.7
2	#5943.20	56.4 PK	68.2	-11.8	3.38 V	267	53.8	2.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



9.6.2 接收諧波

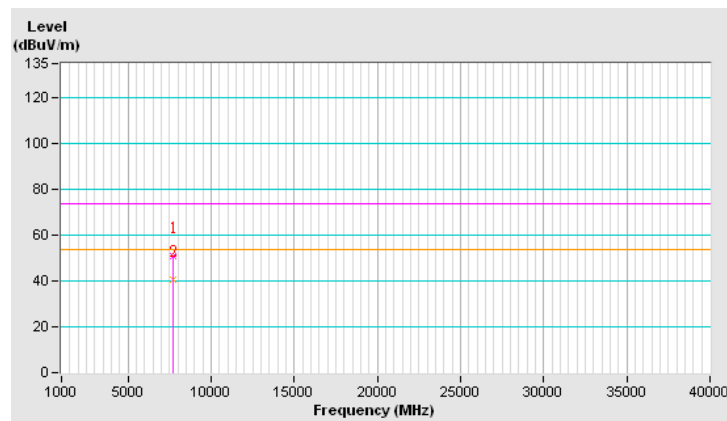
802.11a

操作模式：	接收		
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月30日	測試者：	張仲志

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	7713.00	51.0 PK	74.0	-23.0	2.01 H	36	43.5	7.5
2	7713.00	40.4 AV	54.0	-13.6	2.01 H	36	32.9	7.5

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



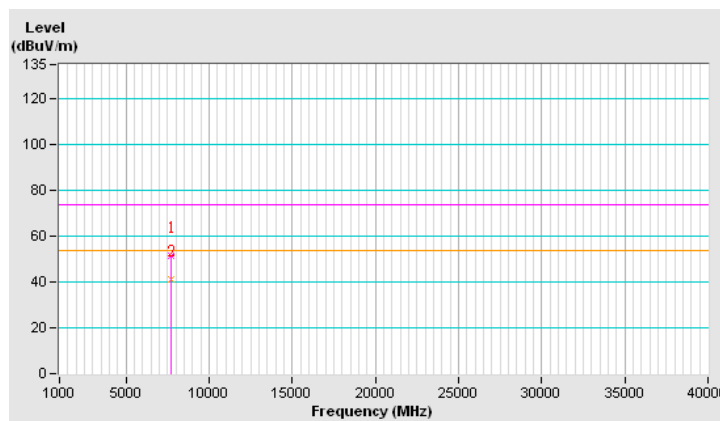
操作模式：	接收		
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	106年06月30日	測試者：	張仲志

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	7713.00	51.5 PK	74.0	-22.5	1.49 V	212	44.0	7.5
2	7713.00	41.0 AV	54.0	-13.0	1.49 V	212	33.5	7.5

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



9.6.3 其它不必要之訊號

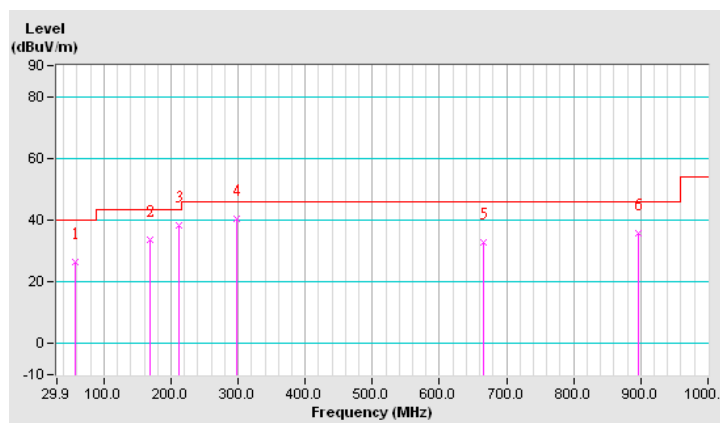
802.11a

操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106年06月30日	測試者：	張仲志

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	57.12	26.5 QP	40.0	-13.5	2.00 H	257	41.1	-14.6
2	167.94	33.5 QP	43.5	-10.0	1.50 H	357	47.4	-13.9
3	212.66	38.5 QP	43.5	-5.0	1.00 H	205	54.4	-15.9
4	298.21	40.4 QP	46.0	-5.6	1.00 H	329	52.5	-12.1
5	665.68	32.7 QP	46.0	-13.3	1.00 H	217	37.1	-4.4
6	897.05	35.9 QP	46.0	-10.1	1.50 H	15	35.8	0.1

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.

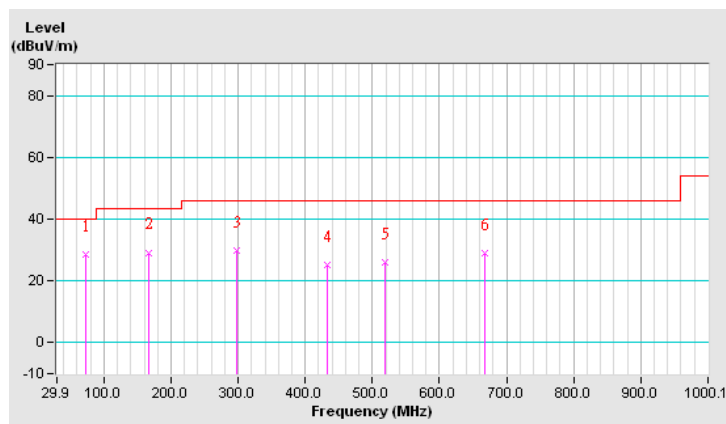


操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	26°C	量測場地濕度：	69%RH
測試日期：	106 年 06 月 30 日	測試者：	張仲志

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	72.67	28.4 QP	40.0	-11.6	1.50 V	265	45.2	-16.8
2	166.00	29.2 QP	43.5	-14.3	1.00 V	241	43.1	-13.9
3	298.21	29.9 QP	46.0	-16.1	1.00 V	271	42.0	-12.1
4	432.37	25.0 QP	46.0	-21.0	1.00 V	311	34.1	-9.1
5	519.86	26.0 QP	46.0	-20.0	2.00 V	324	33.4	-7.4
6	667.63	29.0 QP	46.0	-17.0	1.00 V	246	33.3	-4.3

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.



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 配置照片

同 4.8 節。

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0.15MHz至30MHz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

同 5.5 節。

10.6 量測結果

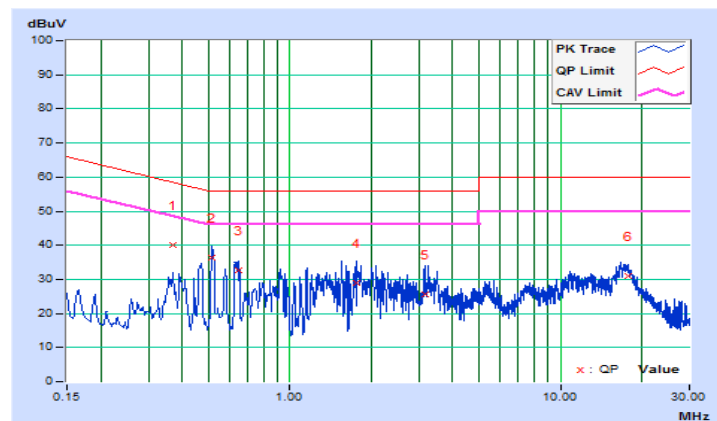
802.11a

操作模式	發射/接收	測試日期	106 年 06 月 30 日
基本波頻率	CH 157 : 5785 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張仲志		

		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.
0.37000	10.40	29.66	11.07	40.06	21.47	58.50	48.50	-18.44	-27.03
0.51400	10.40	25.94	18.65	36.34	29.05	56.00	46.00	-19.66	-16.95
0.64600	10.40	22.34	11.42	32.74	21.82	56.00	46.00	-23.26	-24.18
1.75400	10.45	18.45	6.03	28.90	16.48	56.00	46.00	-27.10	-29.52
3.14600	10.52	15.01	6.59	25.53	17.11	56.00	46.00	-30.47	-28.89
17.86200	11.24	19.87	12.32	31.11	23.56	60.00	50.00	-28.89	-26.44

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.Corrected factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

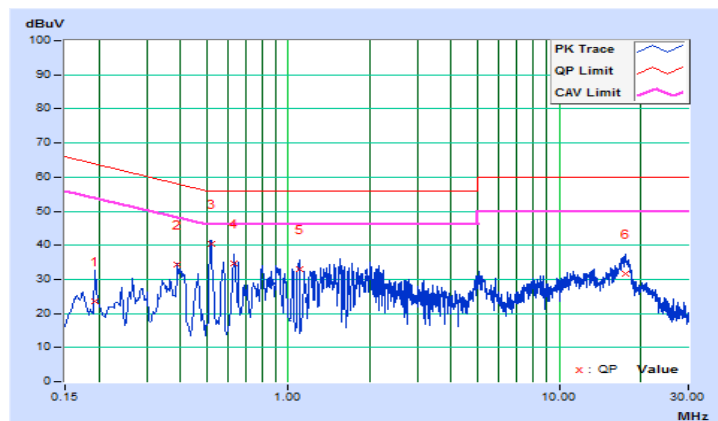


操作模式	發射/接收	測試日期	106 年 06 月 30 日
基本波頻率	CH 157 : 5785 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張仲志		

		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.
0.19400	10.14	13.45	3.64	23.59	13.78	63.86	53.86	-40.27	-40.08
0.39000	10.16	24.29	12.66	34.45	22.82	58.06	48.06	-23.61	-25.24
0.51800	10.16	30.40	28.25	40.56	38.41	56.00	46.00	-15.44	-7.59
0.63000	10.16	24.48	21.84	34.64	32.00	56.00	46.00	-21.36	-14.00
1.09800	10.18	22.87	18.01	33.05	28.19	56.00	46.00	-22.95	-17.81
17.60600	10.86	20.91	14.11	31.77	24.97	60.00	50.00	-28.23	-25.03

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.



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

同 5.8 節。

11 峰值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

輸出峰值功率量測方法：

- 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。
- 計算其輸出功率峰值。

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	106 年 10 月 25 日 (For 5.150~5.250GHz) 106 年 07 月 04 日 (For 5.725~5.850GHz)
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林山銘、林成聰		

Power Output:

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.11	17.21	104.006	20.17	30	Pass
40	5200	17.70	18.35	127.275	21.05	30	Pass
48	5240	17.56	18.42	126.518	21.02	30	Pass
149	5745	16.90	16.93	98.295	19.93	29.80	Pass
157	5785	17.01	17.71	109.254	20.38	29.80	Pass
165	5825	17.01	17.76	109.938	20.41	29.80	Pass

* For U-NII-3 Band: Max gain = 6.2 > 6dBi, so the conducted power limit shall be reduced to 30-(6.2-6) = 29.80dBm.

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	16.89	17.01	99.099	19.96	30	Pass
40	5200	17.67	18.28	125.777	21.00	30	Pass
48	5240	17.64	18.31	125.840	21.00	30	Pass
149	5745	16.89	17.34	103.065	20.13	29.80	Pass
157	5785	17.10	17.86	112.380	20.51	29.80	Pass
165	5825	17.27	17.75	112.899	20.53	29.80	Pass

* For U-NII-3 Band: Max gain = 6.2 > 6dBi, so the conducted power limit shall be reduced to 30-(6.2-6) = 29.80dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	15.62	15.81	74.582	18.73	30	Pass
46	5230	17.76	18.61	132.315	21.22	30	Pass
151	5755	16.74	17.51	103.570	20.15	29.80	Pass
159	5795	17.13	17.64	109.718	20.40	29.80	Pass

* For U-NII-3 Band: Max gain = 6.2 > 6dBi, so the conducted power limit shall be reduced to 30-(6.2-6) = 29.80dBm.

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	39.71	43.73
40	5200	46.05	46.46
48	5240	47.62	46.60

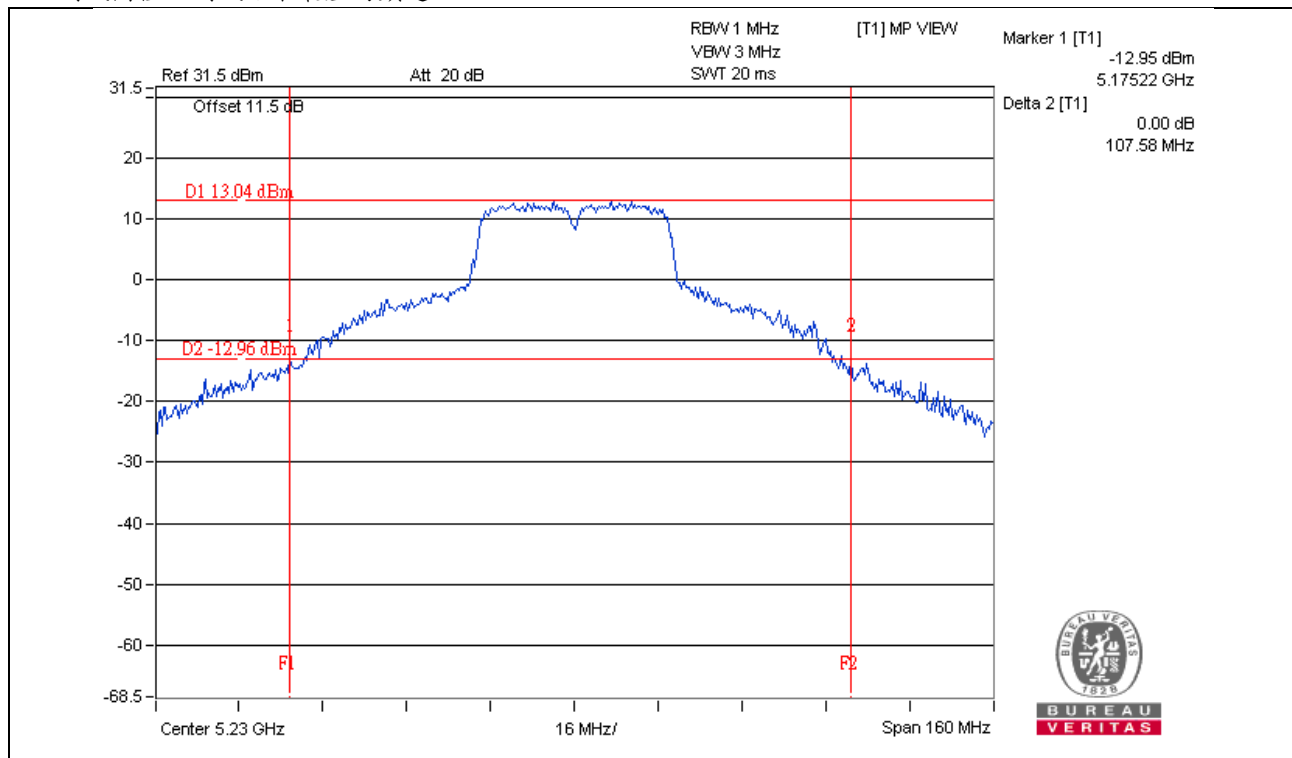
802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	43.35	46.54
40	5200	50.71	50.20
48	5240	50.07	50.55

802.11n (HT40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	88.15	91.82
46	5230	103.31	107.58

**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

For U-NII-1 band:

Using method SA-2 alternative

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = 20ms.
- 5) Perform a single sweep.
- 6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- 3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 4) Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging mode.
- 7) Record the max value and add 10 log (1/duty cycle)

12.3 量測儀器

同 8.3 節。

12.4 測試配置

同 8.4 節。

12.5 量測結果

操作模式	發射	測試日期	106 年 10 月 25 日 (For 5.150~5.250GHz) 106 年 07 月 04 日 (For 5.725~5.850GHz)
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林山銘、林成聰		

For U-NII-1 Band

802.11a

Chan.	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor	Total PSD With Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	4.16	4.00	0.15	7.24	14.29	Pass
40	5200	4.92	5.06	0.15	8.15	14.29	Pass
48	5240	4.78	4.75	0.15	7.93	14.29	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:** Directional gain = 5.7dBi + 10log (2) = 8.71dBi > 6dBi, so the power density limit shall be reduced to 17-(8.71-6) = 14.29dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor	Total PSD With Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	4.36	3.90	0.21	7.36	14.29	Pass
40	5200	4.73	4.82	0.21	7.99	14.29	Pass
48	5240	4.47	4.43	0.21	7.67	14.29	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:** Directional gain = 5.7dBi + 10log (2) = 8.71dBi > 6dBi, so the power density limit shall be reduced to 17-(8.71-6) = 14.29dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

802.11n (HT40)

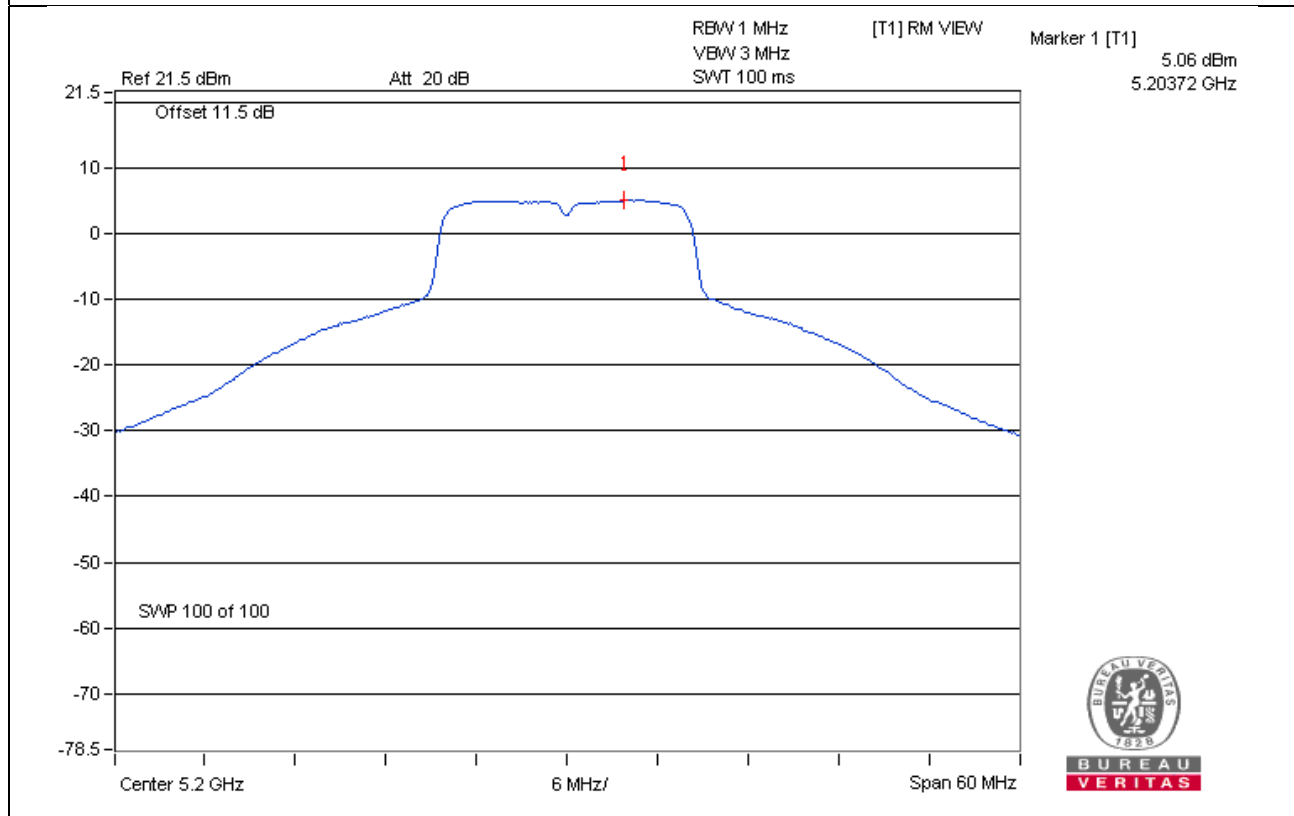
Chan.	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor	Total PSD With Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-0.40	-0.11	0.23	2.99	14.29	Pass
46	5230	2.01	1.58	0.23	5.05	14.29	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 Band:** Directional gain = 5.7dBi + 10log (2) = 8.71dBi > 6dBi, so the power density limit shall be reduced to 17-(8.71-6) = 14.29dBm.
- 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。

802.11a / Chain 1 / Ch 40



For U-NII-3 Band

802.11a

Ch.	Freq. (MHz)	PSD (dBm/300kHz)		PSD (dBm/500kHz)		Duty factor	Total PSD (dBm /500 kHz)	Limit (dBm /500 kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1				
149	5745	-5.76	-5.50	-3.54	-3.28	0.20	-0.20	26.79	Pass
157	5785	-5.91	-5.29	-3.69	-3.07	0.20	-0.16	26.79	Pass
165	5825	-5.96	-5.42	-3.74	-3.20	0.20	-0.25	26.79	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. **For U-NII-3 Band:** Directional gain = $6.2\text{dBi} + 10\log(2) = 9.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(9.21-6) = 26.79\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11n (HT20)

Ch.	Freq. (MHz)	PSD (dBm/300kHz)		PSD (dBm/500kHz)		Duty factor	Total PSD (dBm /500 kHz)	Limit (dBm /500 kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1				
149	5745	-6.01	-5.67	-3.79	-3.45	0.17	-0.44	26.79	Pass
157	5785	-6.06	-5.50	-3.84	-3.28	0.17	-0.37	26.79	Pass
165	5825	-6.02	-5.44	-3.80	-3.22	0.17	-0.32	26.79	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. **For U-NII-3 Band:** Directional gain = $6.2\text{dBi} + 10\log(2) = 9.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(9.21-6) = 26.79\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

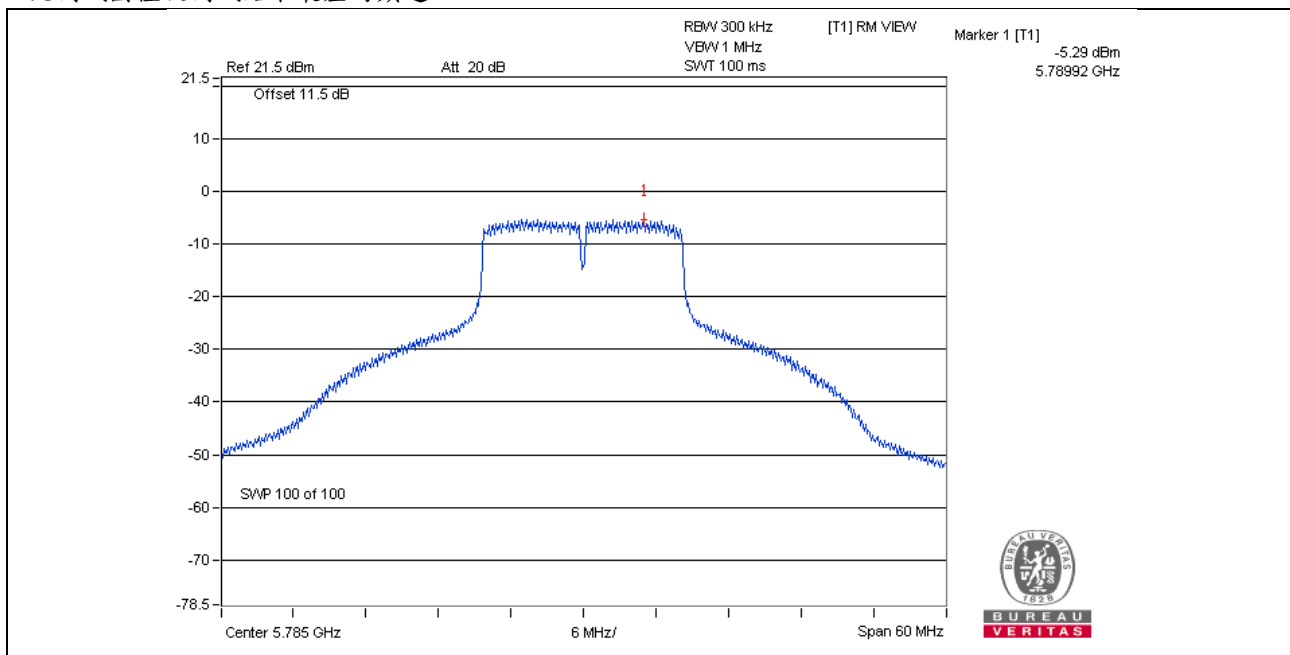
802.11n (HT40)

Ch.	Freq. (MHz)	PSD (dBm/300kHz)		PSD (dBm/500kHz)		Duty factor	Total PSD (dBm /500 kHz)	Limit (dBm /500 kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1				
151	5755	-8.95	-9.06	-6.73	-6.84	0.22	-3.55	29.79	Pass
159	5795	-9.05	-8.44	-6.83	-6.22	0.22	-3.28	29.79	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. **For U-NII-3 Band:** Directional gain = $6.2\text{dBi} + 10\log(2) = 9.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (9.21 - 6) = 26.79\text{dBm}$.
3. 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	106 年 07 月 04 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林成聰		

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	15.54	15.97	0.5	Pass
157	5785	15.25	15.76	0.5	Pass
165	5825	15.77	16.32	0.5	Pass

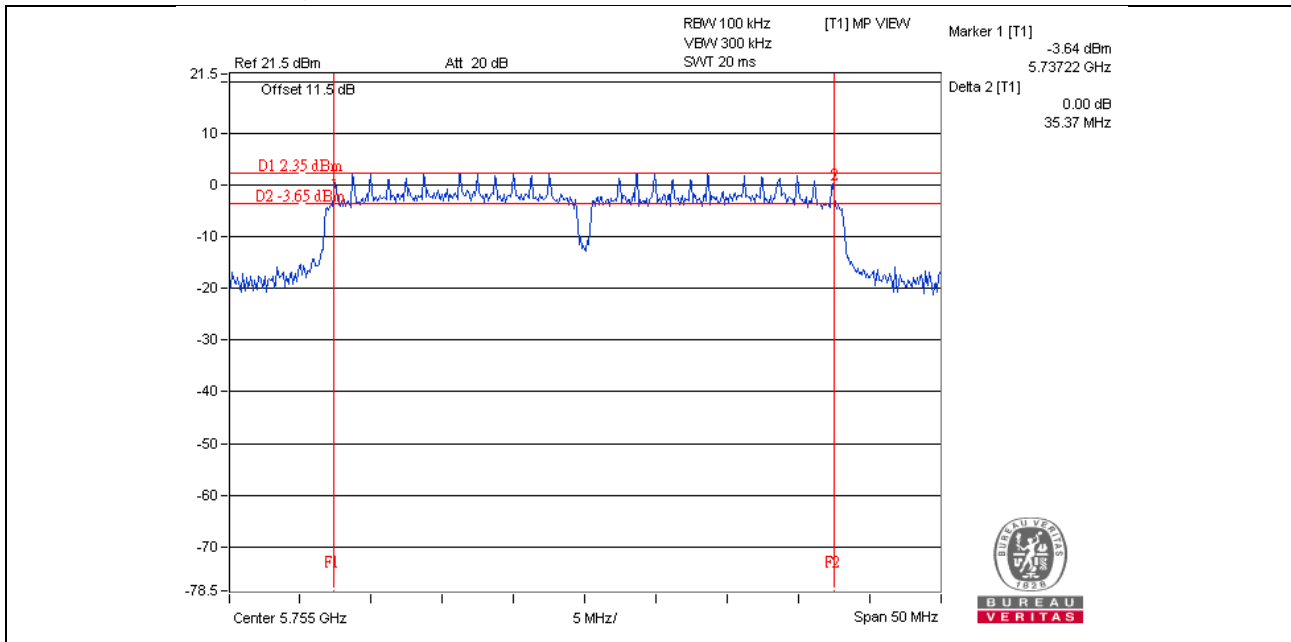
802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	15.95	16.01	0.5	Pass
157	5785	15.97	15.22	0.5	Pass
165	5825	15.76	15.23	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.37	35.32	0.5	Pass
159	5795	35.37	35.34	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、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)
2412-2462	28.72	8.21	20	0.981	1
5180-5240	21.22	8.71	20	0.196	1
5745-5825	20.53	9.21	20	0.187	1

*The 2.4GHz and 5GHz cannot transmit simultaneously.

Note:

2.4GHz Band: Directional gain = 5.2dBi + 10log(2) = 8.21dBi

5180-5240MHz Band: Directional gain = 5.7dBi + 10log(2) = 8.71dBi

5745-5825MHz Band: Directional gain = 6.2dBi + 10log(2) = 9.21dBi

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---