

低功率射頻電機技術規範測試報告

報告編號

RT191112D05

申請者

香港商博士音響股份有限公司台灣分公司

產品名稱

Bose Videobar VB1

型號

433869

製造廠商

BOSE Corporation / USA

商標或廠牌

BOSE

該產品樣品試驗
依據之試驗標準

國家通訊傳播委員會低功率射頻電機技術規範
107 年 1 月 10 日修訂

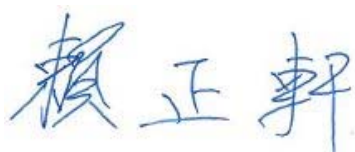
試驗結果

合格

香港商立德國際商品試驗有限公司桃園分公司 林口實驗室

日期 109 年 3 月 23 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.....	15
2.3 測試架構圖	16
3 適用規範.....	17
3.1 規範要求和參考	17
3.2 限制使用之頻帶	21
2.4 GHz 頻段測試紀錄結果.....	22
4 帶外發射之量測.....	22
4.1 適用標準	22
4.2 量測方法	22
4.3 量測儀器	23
4.4 測試配置	24
4.5 場強度之計算.....	25
4.6 量測結果	26
4.6.1 發射諧波	26
4.6.2 接收諧波	50
4.6.3 其它不必要之訊號.....	52
4.7 帶外發射之量測(傳導)	54
4.8 量測結果判定.....	58
4.9 配置照片	58
5 電源線傳導干擾之量測.....	59
5.1 適用標準	59
5.2 量測方法	59
5.3 量測儀器	59
5.4 測試配置	60
5.5 干擾值之計算.....	60
5.6 量測結果	61
5.7 量測結果判定.....	62
5.8 配置照片	62
6 6 dB 頻寬之要求	63
6.1 適用標準	63
6.2 量測方法	63
6.3 量測儀器	63
6.4 測試配置	63
6.5 量測結果	64
6.6 量測結果判定.....	65
7 傳導輸出功率之量測	66
7.1 適用標準	66
7.2 量測方法	66
7.3 量測儀器	66
7.4 測試配置	66
7.5 量測結果	67

7.6	量測結果判定.....	68
8	功率頻譜密度之量測	69
8.1	適用標準	69
8.2	量測方法	69
8.3	量測儀器	69
8.4	測試配置	69
8.5	量測結果	70
8.6	量測結果判定	71
	U-NII 頻段測試紀錄結果.....	72
9	帶外發射之量測.....	72
9.1	適用標準	72
9.2	量測方法	72
9.3	量測儀器	72
9.4	帶外發射之測試配置	72
9.5	場強度之計算	73
9.6	帶外發射之量測結果	74
9.6.1	發射諧波	74
9.6.2	接收諧波	152
9.6.3	其它不必要之訊號	154
9.6.4	帶外發射之量測 (For 5.725 GHz~5.850 GHz band)	156
9.7	量測結果判定	158
9.8	輻射量測之配置照片	158
10	電源線傳導干擾之量測.....	159
10.1	適用標準	159
10.2	量測方法	159
10.3	量測儀器	159
10.4	測試配置	159
10.5	干擾值之計算	159
10.6	量測結果	160
10.7	量測結果判定	161
10.8	配置照片	161
11	傳導輸出功率量測及發射頻寬之要求	162
11.1	適用標準	162
11.2	量測方法	162
11.3	量測儀器	162
11.4	測試配置	162
11.5	峰值傳導輸出功率之量測結果	163
11.6	量測結果判定	167
12	功率頻譜密度之量測	168
12.1	適用標準	168
12.2	量測方法	168
12.3	量測功率頻譜密度之儀器	168
12.4	功率頻譜密度之測試配置	168
12.5	量測結果	169
12.6	量測結果判定	172
13	6 dB 頻寬之要求	173
13.1	適用標準	173

13.2	量測方法	173
13.3	量測儀器	173
13.4	測試配置	173
13.5	量測結果	174
13.6	量測結果判定	175
14	電波暴露量之評估	176
14.1	適用標準	176
14.2	評估方法	176
14.3	評估結果	176
	附錄：動態頻率選擇	177
1.	EUT Information	177
1.1	Operating Frequency Bands and Mode of EUT	177
1.2	EUT Software and Firmware Version	177
1.3	Description Of Available Antennas to The EUT	177
1.4	EUT Maximum Conducted Power	178
1.5	EUT Maximum E.I.R.P. Power	179
1.6	Transmit Power Control (TPC)	180
1.7	Statement of Manufacturer	180
2.	U-NII DFS Rule Requirements	181
2.1	Working Modes and Required Test Items	181
2.2	Test Limits And Radar Signal Parameters	182
3.	Test & Support Equipment List	185
3.1	Test Instruments	185
3.2	Description of Support Units	185
4.	Test Procedure	186
4.1	DFS Measurement System	186
4.2	Calibration of DFS Detection Threshold Level	187
5.1	Deviation From Test Standard	187
5.2	Radiated Test Setup Configuration	188
5.2.1	Client Without Radar Detection Mode	188
6.	Test Results	188
6.1	Summary of Test Results	188
6.2	Test Results	189
6.2.1	Test Mode: Device Operating In Client Without Radar Detection Mode	189
6.2.2	Channel Closing Transmission And Channel Move Time	190
6.2.3	Non-Occupancy Period	193
6.2.4	Non-Associated Test	194
6.2.5	Non- Co-Channel Test	194
15	檢測實驗室基本資料	195

報告發行紀錄

Issue No.	Description	Date Issued
RT191112D05	Original release.	109 年 3 月 23 日

證 明 書

發行日期：109 年 3 月 23 日

產 品 名 稱：Bose Videobar VB1

商 標：BOSE

型 號：433869

申 請 者：香港商博士音響股份有限公司台灣分公司

量 測 規 範：低功率射頻電機技術規範 LP0002 (修訂日期：107 年 1 月 10 日)
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：433869)，收件日期 108 年 11 月 12 日，於 108 年 12 月 24 日至 109 年 3 月 12 日，已在本公司的標準測試場地完成量測。報告中所描述之測試結果和待測設備的架構組合，均根據樣品實際的量測情況作詳實的記錄。

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

特 此 證 明 ！

報告製作者：



張嘉宴 / 高級專員

， 日 期：109 年 3 月 23 日

審 核 者：



賴正軒 / 技術副理

， 日 期：109 年 3 月 23 日

香港商立德國際商品試驗有限公司桃園分公司

實驗室地址：新北市林口區嘉寶里 14 鄰 47-2 號

此份報告不得摘錄複製，除全份複製外，需經實驗室書面同意。



1 低功率射頻電機量測記錄表

申請廠商：香港商博士音響股份有限公司台灣分公司

製造廠商：BOSE Corporation / USA

申請廠商地址：台北市中山區民生東路3段10號9樓

廠牌：BOSE

產品名稱：Bose Videobar VB1

型號：433869

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

量測單位地址：新北市林口區嘉寶里14鄰47-2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(修訂日期：107 年 1 月 10 日)
ANSI C63.10-2013

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 5.250~5.350GHz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4.7.3.2節	合格
4	最大功率頻譜密度	低功率射頻電機技術規範4.7.3.2節	合格
5	發射功率控制(TPC)及動態頻率選擇(DFS)	低功率射頻電機技術規範4.7.7.1及4.7.7.2 節	合格

WLAN 5.470~5.725GHz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4.7.3.2節	合格
4	最大功率頻譜密度	低功率射頻電機技術規範4.7.3.2節	合格
5	發射功率控制(TPC)及動態頻率選擇(DFS)	低功率射頻電機技術規範4.7.7.1及4.7.7.2 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

備註:量測結果之判定不考慮量測不確定度的貢獻。

2 一般敘述

2.1 待測設備

產品名稱：	Bose Videobar VB1	
型號：	433869	
額定電源：	24Vdc from Adapter	
調變方式：	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM	
調變技術：	DSSS, 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 150Mbps 802.11ac: up to 433Mbps	
載波頻率：	2.4GHz	2412 ~ 2462MHz
	5.0GHz	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz
頻道數：	2.4GHz	802.11b, 802.11g, 802.11n (20MHz): 11 802.11n (40MHz): 7
	5.0GHz	5180 ~ 5240MHz: 802.11a, 802.11n (20MHz), 802.11ac (20MHz): 4 802.11n (40MHz), 802.11ac (40MHz): 2 802.11ac (80MHz) 1 5260 ~ 5320MHz: 802.11a, 802.11n (20MHz), 802.11ac (20MHz): 4 802.11n (40MHz), 802.11ac (40MHz): 2 802.11ac (80MHz) 1 5500 ~ 5700MHz: 802.11a, 802.11n (20MHz), 802.11ac (20MHz): 8 802.11n (40MHz), 802.11ac (40MHz): 3 802.11ac (80MHz) 2 5745 ~ 5825MHz: 802.11a, 802.11n (20MHz), 802.11ac (20MHz): 5 802.11n (40MHz), 802.11ac (40MHz): 2 802.11ac (80MHz) 1
發射功率(電場強度)：	2.4GHz	20.92 dBm
	5.0GHz	5180 ~ 5240MHz: 11.33 dBm 5260 ~ 5320MHz: 11.21 dBm 5500 ~ 5700MHz: 11.50 dBm 5745 ~ 5825MHz: 11.06 dBm
天線種類：	見註	
電源/信號線類別：	見註	
配件：	見註	

註 1: 此待測設備搭配測試的天線，其資料如下：

天線型式	製造商	料號	增益(dBi)		接頭型式
			2.4GHz	5.0GHz	
PCB	WALSIN TECHNOLOGY CORPORATION	PCA3117-1C	3.19	4.20	I-PEX

註 2: 此待測設備之配件詳列如下：

項目	廠牌	型號	規格
電源供應器	BOSE	DT24V-1.8C-DC	AC I/P: 100-240Vac, 50/60Hz, 1.5A Max DC O/P: 24Vdc, 1.875A AC 2-Pin, Non-shielded DC cable (1.5m) <Brand: UNIELEC, Model: UE-106S-044>
HDMI Cable	LOT	TG-D00263-0014	-
USB Cable	LOT	LS658-190305	-
USB Type C to Type A Adapter	LOT	LS658-190602	-
Remote	UEI	R16591BA00-00001	-

註 3: 此待測物之技術的種類為1Tx /1Rx之組合。

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

* The modulation and bandwidth are similar for 802.11n mode for 20MHz / 40MHz and 802.11ac mode for 20MHz / 40MHz, therefore investigated worst case to representative mode in test report. (最終測試模式請見註 4)

註 4: 此報告中，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 (20MHz): Ch 1, 6, 11 802.11n (40MHz): Ch 3, 6, 9	802.11n (20MHz): Ch 1
	其它不必要之訊號	發射/接收- 802.11n (20MHz): Ch 1	
電源線傳導干擾量測		發射/接收- 802.11n (20MHz): Ch 1	
5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz & 5745 ~ 5825MHz			
場強輻射量測	1GHz 以上量測	802.11a: Ch 36, 40, 48, 52, 60, 64, 100, 116, 132, 140, 149, 157, 165 802.11ac (20MHz): Ch 36, 40, 48, 52, 60, 64, 100, 116, 132, 140, 149, 157, 165 802.11ac (40MHz): Ch 38, 46, 54, 62, 102, 110, 134, 151, 159 802.11ac (80MHz): Ch 42, 58, 106, 155	802.11ac (20MHz): Ch 100
	其它不必要之訊號	發射/接收-802.11ac (20MHz): Ch 100	
電源線傳導干擾量測		發射/接收-802.11ac (20MHz): Ch 100	

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: Duty cycle of test signal.

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

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

2.4GHz頻段

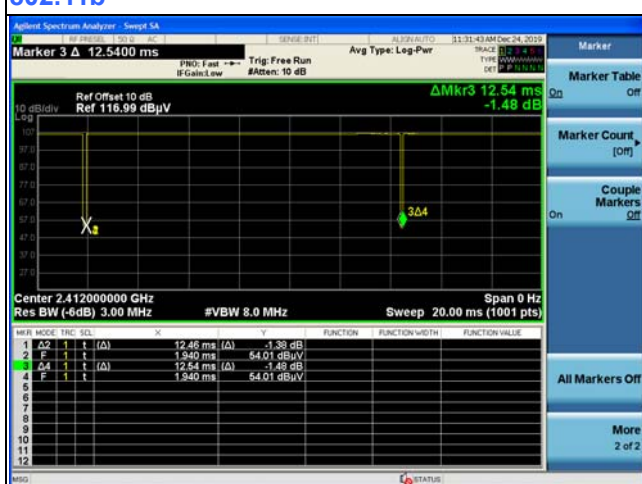
802.11b: Duty cycle = $12.46/12.54 = 0.994$

802.11g: Duty cycle = $2.11/2.19 = 0.963$, Duty factor = $10 * \log(1/0.963) = 0.16$

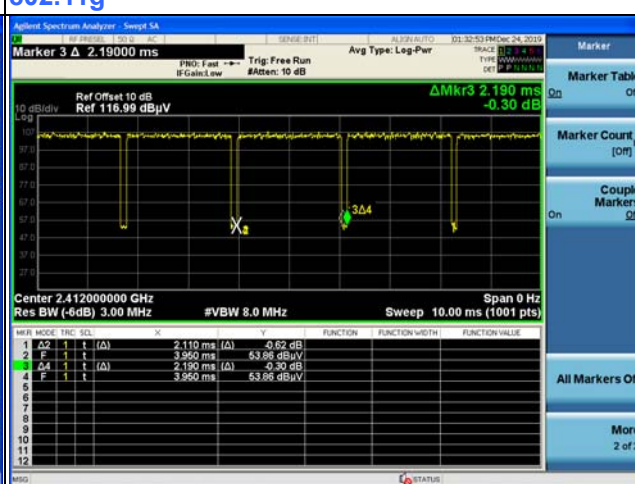
802.11n (20MHz): Duty cycle = $1.95/2.04 = 0.956$, Duty factor = $10 * \log(1/0.956) = 0.20$

802.11n (40MHz): Duty cycle = $0.96/1.045 = 0.919$, Duty factor = $10 * \log(1/0.919) = 0.37$

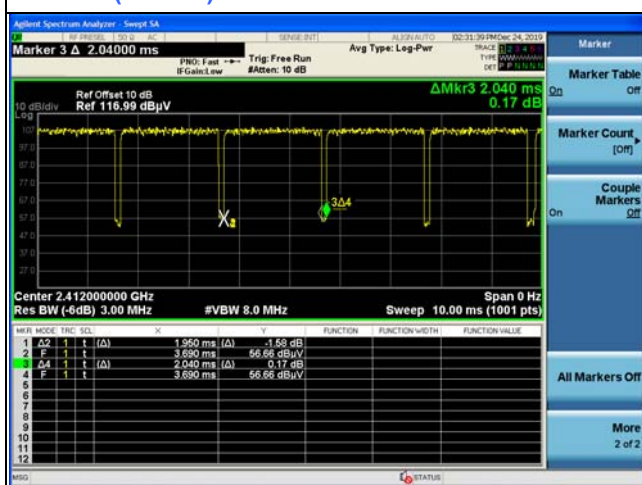
802.11b



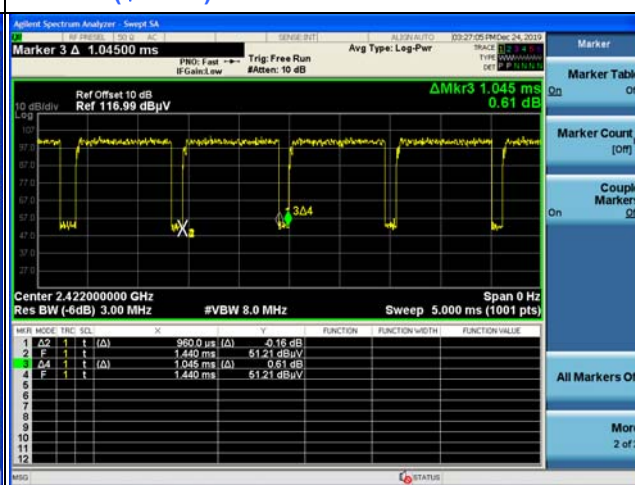
802.11g



802.11n (20MHz)



802.11n (40MHz)



5GHz 频段

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

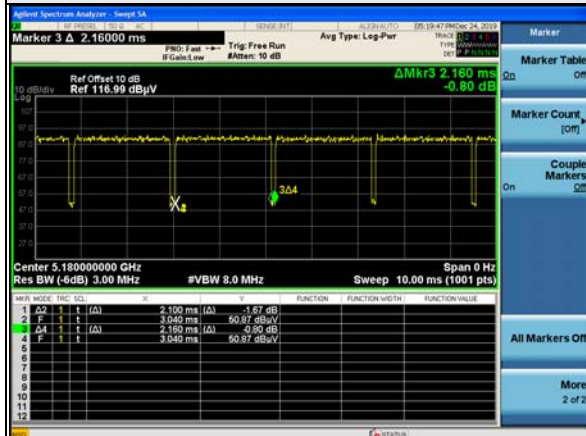
802.11a: Duty cycle = $2.1/2.16 = 0.972$, Duty factor = $10 * \log(1/0.972) = 0.12$

802.11ac (20MHz): Duty cycle = $1.95/2.03 = 0.961$, Duty factor = $10 * \log(1/0.961) = 0.17$

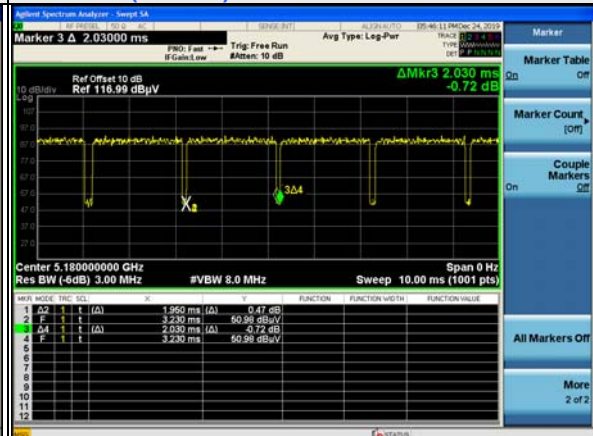
802.11ac (40MHz): Duty cycle = $0.97/1.045 = 0.928$, Duty factor = $10 * \log(1/0.928) = 0.32$

802.11ac (80MHz): Duty cycle = $0.485/0.645 = 0.752$, Duty factor = $10 * \log(1/0.752) = 1.24$

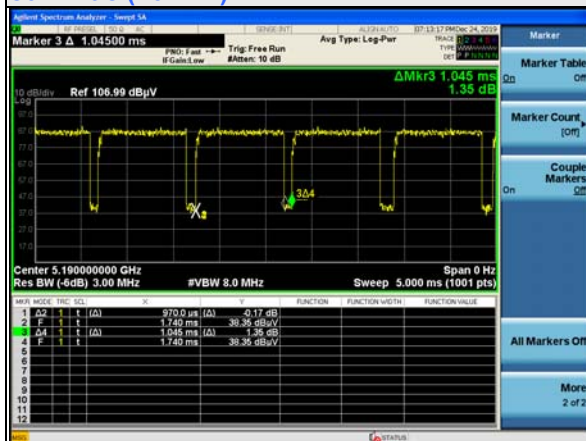
802.11a



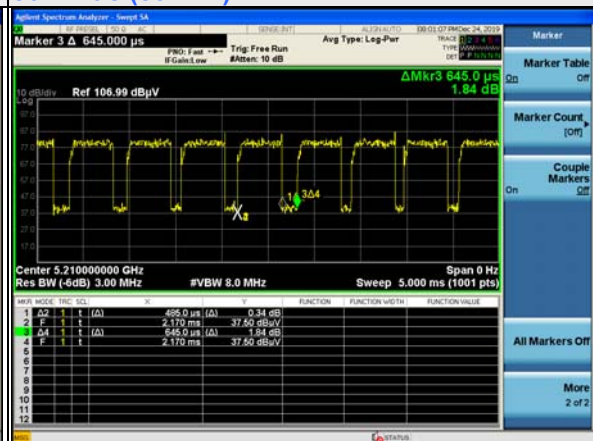
802.11ac (20MHz)



802.11ac (40MHz)



802.11ac (80MHz)



此裝置各頻道的中心頻率如下：

2.4 GHz 頻段：

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

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

802.11n (40MHz):

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

5GHz 頻段:

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

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
36	5180 MHz	112	5560 MHz
40	5200 MHz	116	5580 MHz
44	5220 MHz	132	5660 MHz
48	5240 MHz	136	5680 MHz
52	5260 MHz	140	5700 MHz
56	5280 MHz	149	5745 MHz
60	5300 MHz	153	5765 MHz
64	5320 MHz	157	5785 MHz
100	5500 MHz	161	5805 MHz
104	5520 MHz	165	5825 MHz
108	5540 MHz		

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

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
38	5190 MHz	110	5550 MHz
46	5230 MHz	134	5670 MHz
54	5270 MHz	151	5755 MHz
62	5310 MHz	159	5795 MHz
102	5510 MHz		

802.11ac (80MHz)

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
42	5210MHz	138	5690 MHz
58	5290 MHz	155	5775 MHz
106	5530 MHz		

詳細之規格請參考使用說明書，產品的照片請參照 BV 報告編號: 191112D05。

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.	Router	BUFALLO	WHR-G300N V2	NA	NA	Provided by Lab
B.	Notebook PC	ASUS	PU401L	E9NXXBC002007372	NA	Provided by Lab
C.	Notebook PC	DELL	P54G	98HNF72	NA	Provided by Lab
D.	Phone	SAMSUNG	GT-I9100	NA	NA	Provided by Lab
E.	LCD Monitor	Dell	S2817Q	CN-0GD45P-74445-724-104M	NA	Provided by Lab
F.	USB Load	NA	NA	NA	NA	Provided by Lab

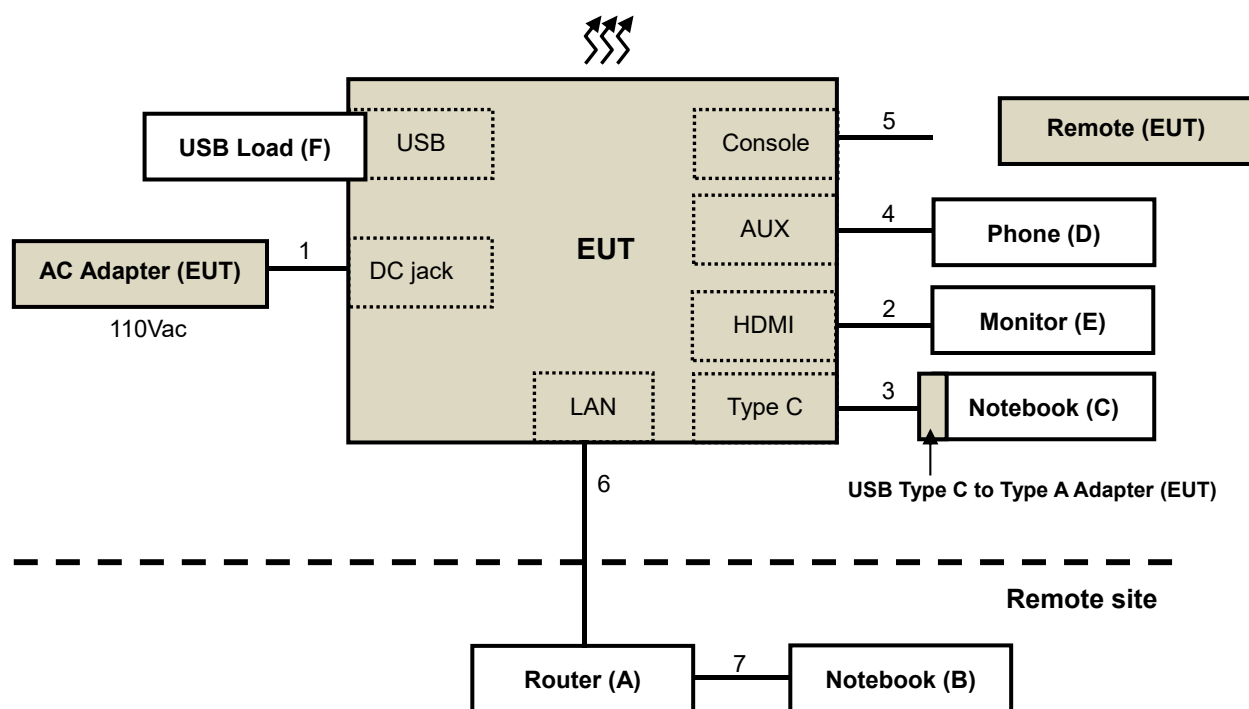
Note:

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

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC cable	1	1.5	N	0	Supplied by client <廠牌: UNIELEC / 型號: UE-106S-044>
2.	HDMI cable	1	1.5	Y	0	Supplied by client <廠牌: LOT / 型號: TG-D00263-0014>
3.	USB Type C to A cable	1	4.9	Y	0	Supplied by client <廠牌: LOT / 型號: LS658-190305>
4.	Audio cable	1	1.2	N	0	Provided by Lab <廠牌: KINYO / 型號: CB220>
5.	Console cable	1	1	N	0	Supplied by client
6.	LAN cable	1	10	N	0	Provided by Lab (RJ45, Cat.5e) <廠牌: Ktnet/ 型號: 10M>
7.	LAN cable	1	1	N	0	Provided by Lab (RJ45, Cat.5e) <廠牌: Ktnet/ 型號: 1M>

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

2.3 測試架構圖



3 適用規範

3.1 規範要求和參考

(1) 傳導之規定

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

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

(註)：隨頻率之對數遞減。

(2) 帶外發射之規定

(I) 操作於 2.4000~2.4835 GHz band:

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

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

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

(III) 操作於 5.725 GHz~5.850 GHz 頻段:

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

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

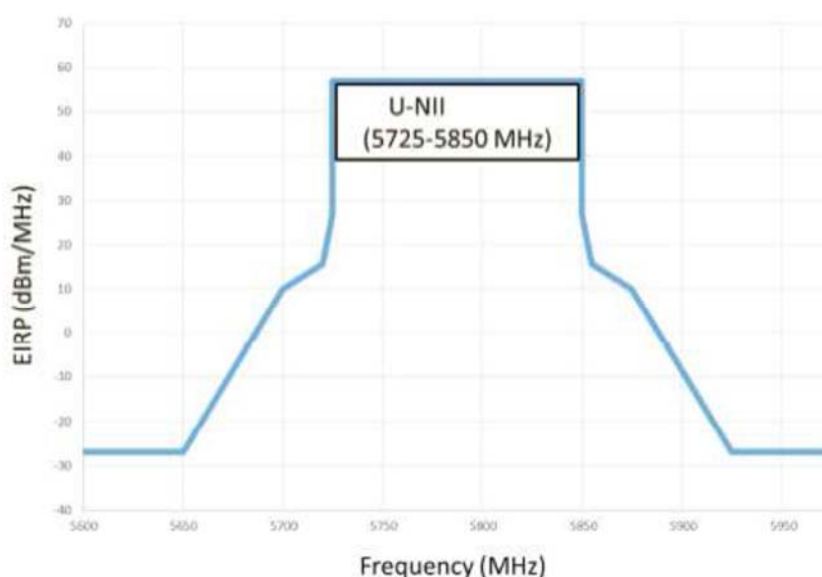


圖 1

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

頻率(MHz)	電場強度(微伏特/公尺, uV/m)	測距(公尺)
0.009 - 0.490(含)	2,400/f(kHz)	300
0.490 (不含) - 1.705 (含)	24,000/f(kHz)	30
1.705(不含) - 30 (不含)	30	30
30 (含) - 88 (含)	100	3
88 (不含)- 216 (含)	150	3
216 (不含)- 960 (含)	200	3
960 (不含)以上	500	3

(3)天線之規定

天線規格不受第 2.2 節規定之限制。

(4)天線增益之要求

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

(I) 操作於 2400 MHz~2483.5 MHz 頻段：

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

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

(II) 操作於 5.15 GHz~5.25 GHz 頻段：

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

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

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

(IV) 操作於 5.725 GHz~5.850 GHz 頻段：

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

率限制值。

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

(5) 6dB 頻寬之要求

(I) 操作於 2400 MHz~2483.5 MHz 頻段：

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

(II) 操作於 5.725 GHz~5.850 GHz 頻段：

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

(6) 傳導輸出功率之要求

(I) 操作於 2.4000~2.4835 GHz band:

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.2 節之規定：

數位調變技術系統：1 W(含)以下。

(II) 操作於 5.15 GHz~5.25 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.3.1 節之要求：

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

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

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

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

(IV) 操作於 5.725 GHz~5.850 GHz 頻段：

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

(7) 功率頻譜密度之要求

(I) 操作於 2.4000~2.4835 GHz band:

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

(II) 操作於 5.15 GHz~5.25 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.3.1 節之要求：

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

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

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

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

(IV) 操作於5.725 GHz~5.850 GHz頻段：

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

(8) 發射功率控制(TPC)及動態頻率選擇(DFS)之要求

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

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

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

(1) 最低動態頻率選擇的偵測門檻

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

(2) 操作模式：動態頻率選擇之規定適用於以下之操作模式：

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

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

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

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

(9)無線資訊傳輸設備必須擁有安全功能之要求：

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

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

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

(12)電波暴露量之評估

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

限制值如下：

(1) 職業性/可控制之暴露

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

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

(2) 一般人/不可控制之暴露

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

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

參考國際標準指南

KDB 558074

3.2 限制使用之頻帶

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

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

2.4 GHz 頻段測試紀錄結果

4 帶外發射之量測

4.1 適用標準

請見本報告 3.1 節第 2 項(I)的規定。

4.2 量測方法

量測頻率 9kHz ~ 30MHz :

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米外離地1米的高度。測試桌面要360度旋轉，另外接收天線也要分別設置為Parallel軸性(Loop antenna面向EUT)與Perpendicular軸性(Loop antenna與EUT垂直)與Ground-parallel軸性(Loop antenna面向地板) 作量測，以找出最大的輻射電場強度。

量測頻率 30MHz ~ 1GHz:

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

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

4.3 量測儀器

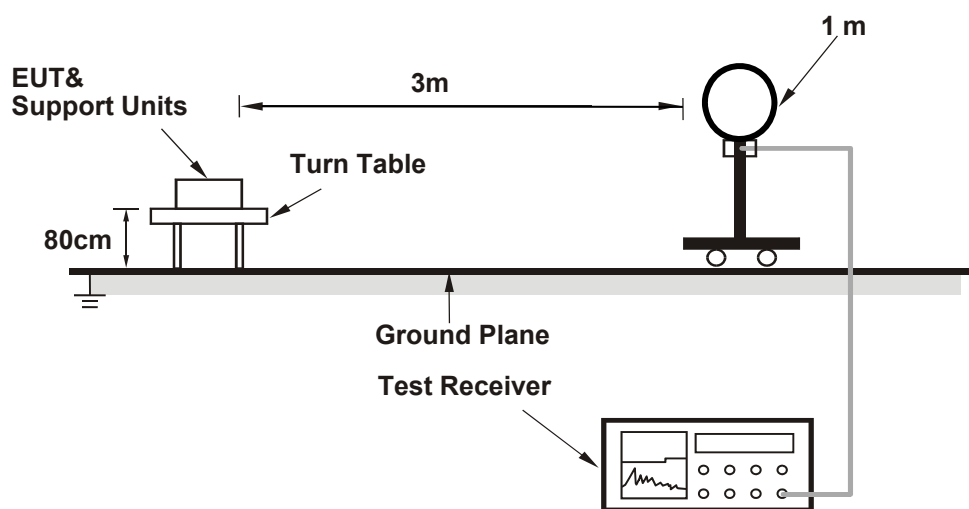
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 20, 2019	Feb. 19, 2020
HP Preamplifier	8449B	3008A01201	Feb. 21, 2019	Feb. 20, 2020
MITEQ Preamplifier	AMF-6F-260400-33-8P	892164	Feb. 20, 2019	Feb. 19, 2020
Agilent TEST RECEIVER	N9038A	MY51210129	Mar. 05, 2019	Mar. 04, 2020
Schwarzbeck Antenna	VULB 9168	139	Nov. 7, 2019	Nov. 6, 2020
Schwarzbeck Antenna	VHBA 9123	480	Jun. 3, 2019	Jun. 2, 2021
Schwarzbeck Horn Antenna	BBHA-9170	212	Nov. 24, 2019	Nov. 23, 2020
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	Nov. 24, 2019	Nov. 23, 2020
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	Radiated_V7.6.15.9.5	NA	NA	NA
SUHNER RF cable With 4dB PAD	SF102	Cable-CH6-01	Jul. 10, 2019	Jul. 9, 2020
SUHNER RF cable With 3/4dB PAD	SF102	Cable-CH8-3.6m	Jul. 10, 2019	Jul. 9, 2020
KEYSIGHT MIMO Powermeasurement Test set	U2021XA	U2021XA-001	Jun. 11, 2019	Jun. 10, 2020
KEYSIGHT Spectrum Analyzer	N9030A	MY54490260	Jul. 30, 2019	Jul. 29, 2020
Loop Antenna EMCI	LPA600	270	Aug. 23, 2019	Aug. 22, 2021
EMCO Horn Antenna	3115	00028257	Nov. 24, 2019	Nov. 23, 2020
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 23, 2019	Sep. 22, 2020
Anritsu Power Sensor	MA2411B	0738404	Apr. 16, 2019	Apr. 15, 2020
Anritsu Power Meter	ML2495A	0842014	Apr. 16, 2019	Apr. 15, 2020

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

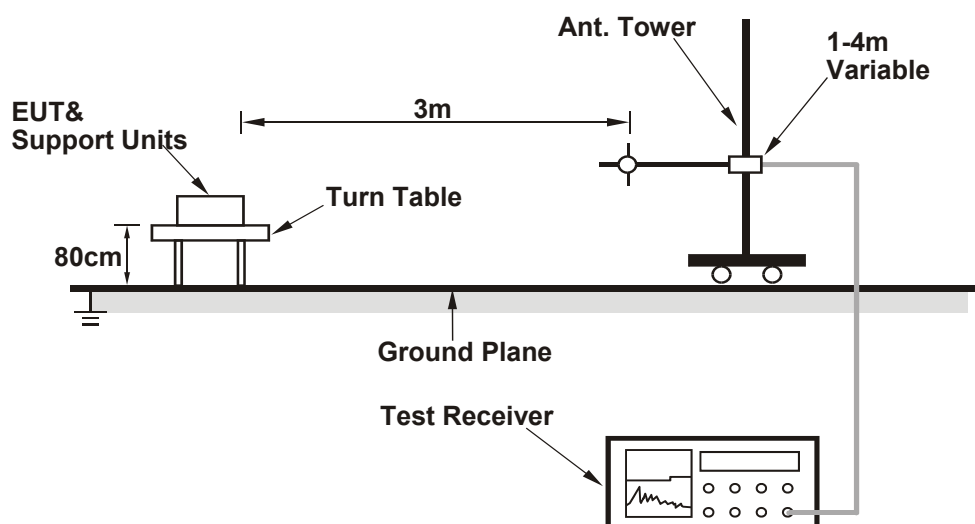
Measurement	Frequency	Uncertainty
Radiated emissions	9kHz ~ 30MHz	±2.61 dB
	30MHz ~ 1GHz	±5.43 dB
	Above 1GHz	±5.14 dB

4.4 測試配置

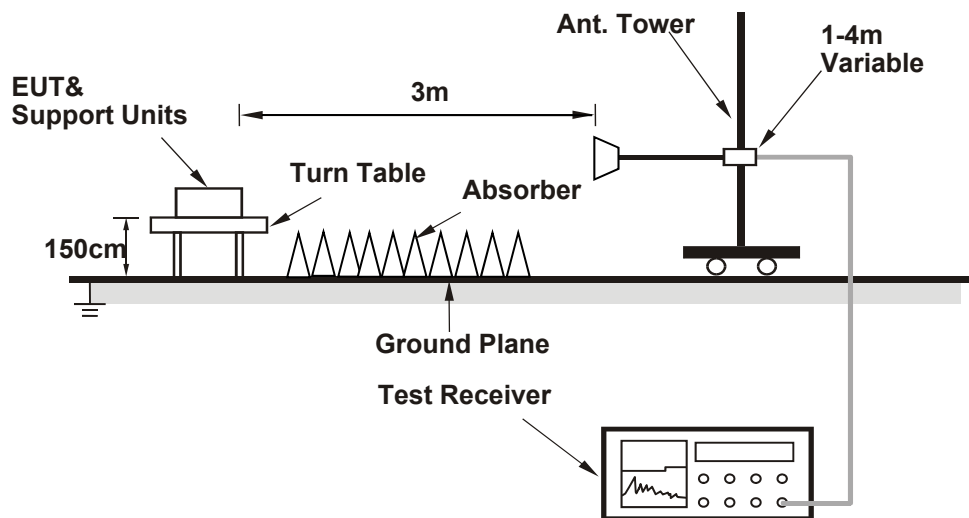
<Frequency Range 9kHz ~ 30MHz>



<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



4.5 場強度之計算

場強之計算公式如下：

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

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

量測結果請見下頁。

4.6 量測結果

4.6.1 發射諧波

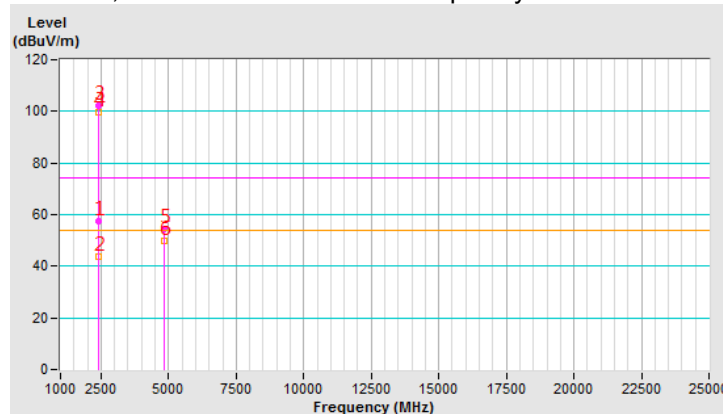
802.11b

操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.52 PK	74.00	-16.48	1.50 H	132	57.08	0.44
2	2390.00	43.71 AV	54.00	-10.29	1.50 H	132	43.27	0.44
3	*2412.00	102.12 PK			1.50 H	132	101.65	0.47
4	*2412.00	99.57 AV			1.50 H	132	99.10	0.47
5	4824.00	54.61 PK	74.00	-19.39	2.86 H	179	46.39	8.22
6	4824.00	50.03 AV	54.00	-3.97	2.86 H	179	41.81	8.22
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

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

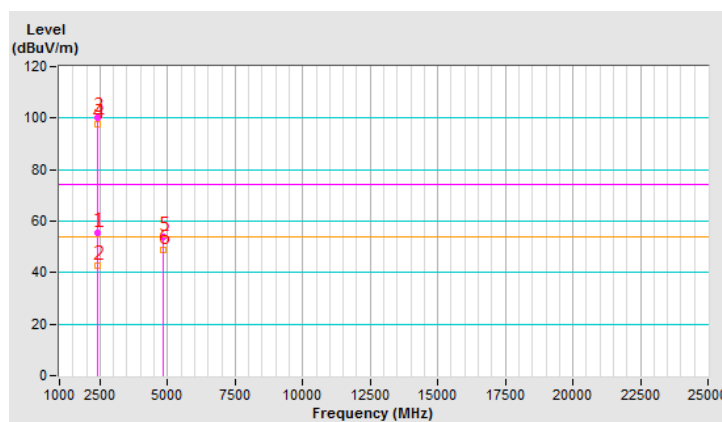


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.62 PK	74.00	-18.38	3.61 V	166	55.18	0.44
2	2390.00	42.58 AV	54.00	-11.42	3.61 V	166	42.14	0.44
3	*2412.00	100.28 PK			3.61 V	166	99.81	0.47
4	*2412.00	97.73 AV			3.61 V	166	97.26	0.47
5	4824.00	53.86 PK	74.00	-20.14	3.73 V	98	45.64	8.22
6	4824.00	48.95 AV	54.00	-5.05	3.73 V	98	40.73	8.22
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

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

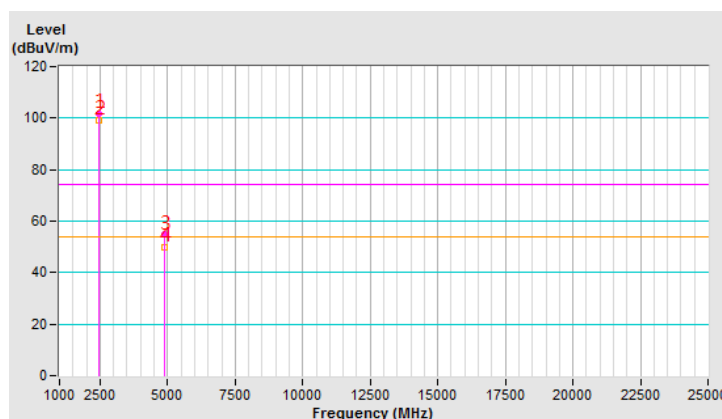


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	101.76 PK			1.47 H	138	101.28	0.48
2	*2437.00	99.15 AV			1.47 H	138	98.67	0.48
3	4874.00	54.67 PK	74.00	-19.33	2.90 H	184	46.28	8.39
4	4874.00	49.91 AV	54.00	-4.09	2.90 H	184	41.52	8.39
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

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

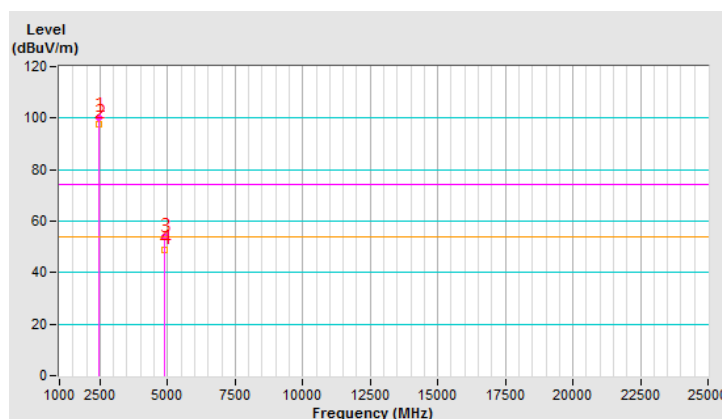


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.13 PK			3.56 V	163	99.65	0.48
2	*2437.00	97.56 AV			3.56 V	163	97.08	0.48
3	4874.00	53.70 PK	74.00	-20.30	3.75 V	96	45.31	8.39
4	4874.00	48.81 AV	54.00	-5.19	3.75 V	96	40.42	8.39
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

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

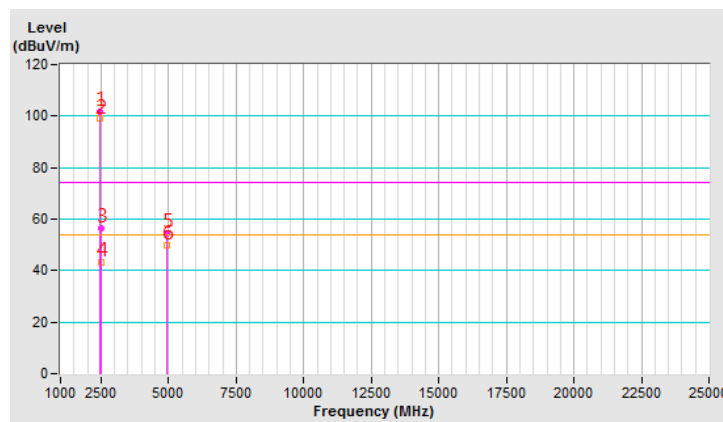


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	101.58 PK			1.51 H	130	101.05	0.53
2	*2462.00	98.97 AV			1.51 H	130	98.44	0.53
3	2483.50	56.47 PK	74.00	-17.53	1.51 H	130	55.85	0.62
4	2483.50	43.35 AV	54.00	-10.65	1.51 H	130	42.73	0.62
5	4924.00	54.41 PK	74.00	-19.59	2.88 H	181	45.93	8.48
6	4924.00	49.77 AV	54.00	-4.23	2.88 H	181	41.29	8.48
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

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

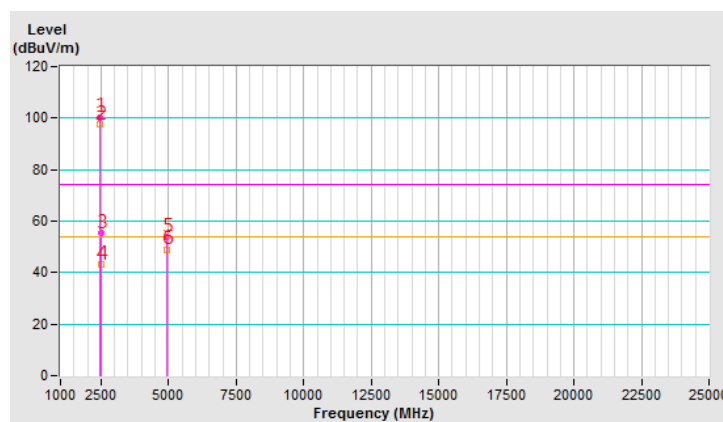


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	100.03 PK			3.60 V	169	99.50	0.53
2	*2462.00	97.42 AV			3.60 V	169	96.89	0.53
3	2483.50	55.18 PK	74.00	-18.82	3.60 V	169	54.56	0.62
4	2483.50	43.01 AV	54.00	-10.99	3.60 V	169	42.39	0.62
5	4924.00	53.66 PK	74.00	-20.34	3.71 V	99	45.18	8.48
6	4924.00	48.75 AV	54.00	-5.25	3.71 V	99	40.27	8.48
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

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



802.11g

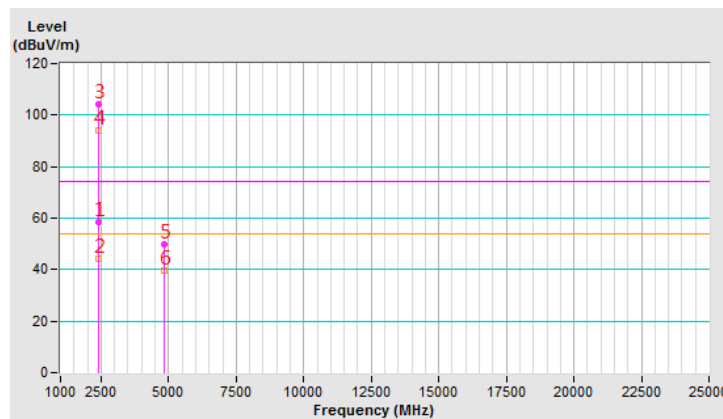
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24℃	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.65 PK	74.00	-15.35	1.50 H	133	58.21	0.44
2	2390.00	44.10 AV	54.00	-9.90	1.50 H	133	43.66	0.44
3	*2412.00	104.35 PK			1.50 H	133	103.88	0.47
4	*2412.00	94.26 AV			1.50 H	133	93.79	0.47
5	4824.00	50.07 PK	74.00	-23.93	2.67 H	184	41.85	8.22
6	4824.00	39.51 AV	54.00	-14.49	2.67 H	184	31.29	8.22
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

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

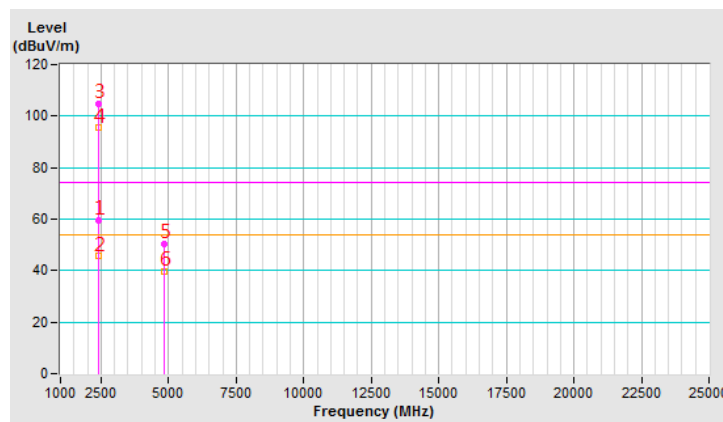


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.37 PK	74.00	-14.63	3.01 V	179	58.93	0.44
2	2390.00	45.56 AV	54.00	-8.44	3.01 V	179	45.12	0.44
3	*2412.00	104.95 PK			3.01 V	179	104.48	0.47
4	*2412.00	95.40 AV			3.01 V	179	94.93	0.47
5	4824.00	50.52 PK	74.00	-23.48	3.68 V	95	42.30	8.22
6	4824.00	39.88 AV	54.00	-14.12	3.68 V	95	31.66	8.22
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

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

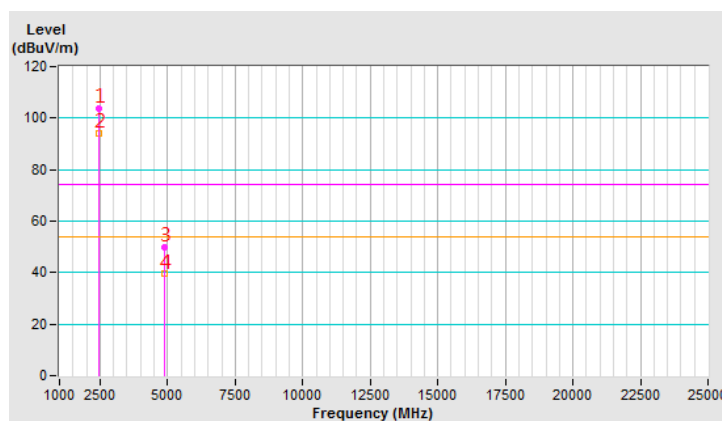


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	103.85 PK			1.46 H	137	103.37	0.48
2	*2437.00	94.10 AV			1.46 H	137	93.62	0.48
3	4874.00	50.06 PK	74.00	-23.94	2.71 H	188	41.67	8.39
4	4874.00	39.43 AV	54.00	-14.57	2.71 H	188	31.04	8.39
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

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



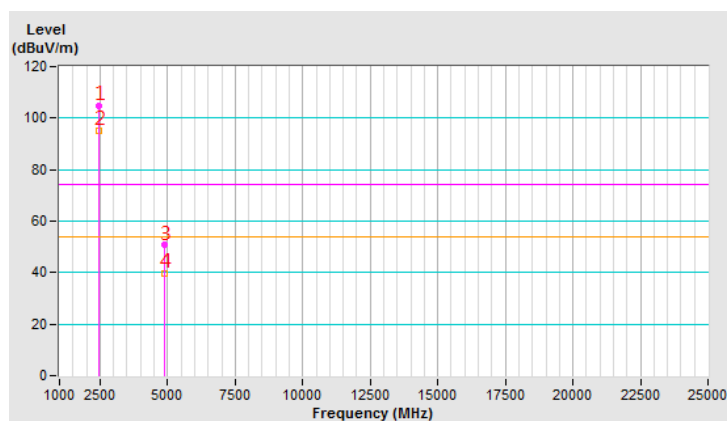
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.76 PK			3.13 V	174	104.28	0.48
2	*2437.00	95.25 AV			3.13 V	174	94.77	0.48
3	4874.00	50.60 PK	74.00	-23.40	3.70 V	98	42.21	8.39
4	4874.00	39.91 AV	54.00	-14.09	3.70 V	98	31.52	8.39
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

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

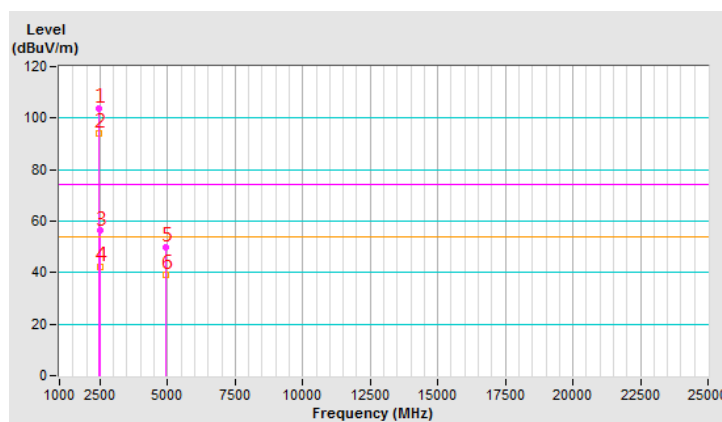


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.59 PK			1.49 H	131	103.06	0.53
2	*2462.00	94.02 AV			1.49 H	131	93.49	0.53
3	2483.50	56.24 PK	74.00	-17.76	1.49 H	131	55.62	0.62
4	2483.50	42.07 AV	54.00	-11.93	1.49 H	131	41.45	0.62
5	4924.00	49.90 PK	74.00	-24.10	2.66 H	181	41.42	8.48
6	4924.00	39.33 AV	54.00	-14.67	2.66 H	181	30.85	8.48
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

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

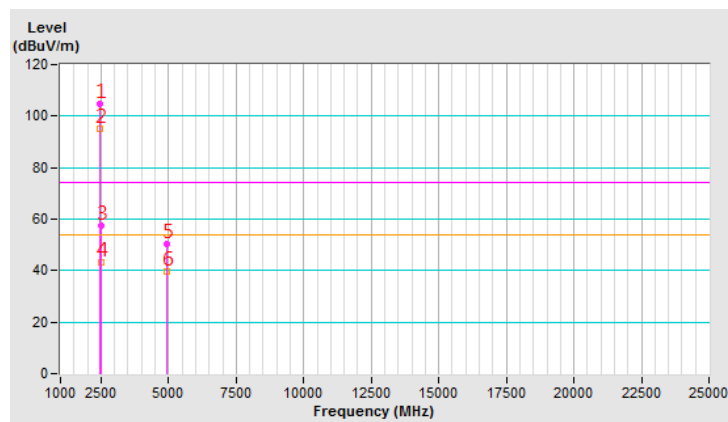


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.63 PK			3.06 V	169	104.10	0.53
2	*2462.00	95.09 AV			3.06 V	169	94.56	0.53
3	2483.50	57.40 PK	74.00	-16.60	3.06 V	169	56.78	0.62
4	2483.50	43.15 AV	54.00	-10.85	3.06 V	169	42.53	0.62
5	4924.00	50.57 PK	74.00	-23.43	3.67 V	97	42.09	8.48
6	4924.00	39.75 AV	54.00	-14.25	3.67 V	97	31.27	8.48
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

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



802.11n (20MHz)

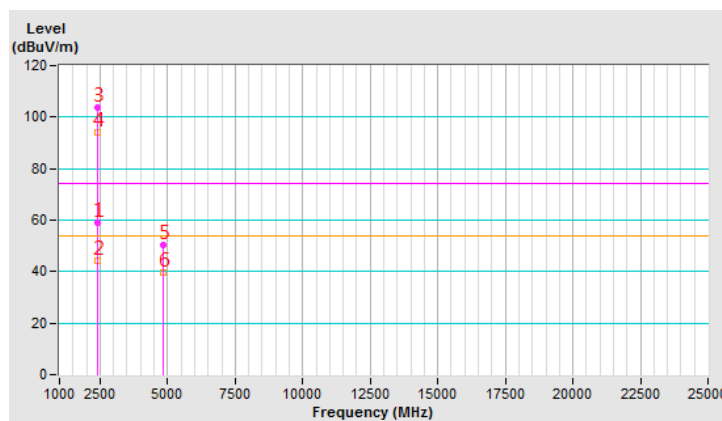
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24℃	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.88 PK	74.00	-15.12	1.52 H	130	58.44	0.44
2	2390.00	44.42 AV	54.00	-9.58	1.52 H	130	43.98	0.44
3	*2412.00	103.97 PK			1.52 H	130	103.50	0.47
4	*2412.00	93.96 AV			1.52 H	130	93.49	0.47
5	4824.00	50.18 PK	74.00	-23.82	2.72 H	185	41.96	8.22
6	4824.00	39.57 AV	54.00	-14.43	2.72 H	185	31.35	8.22
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

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

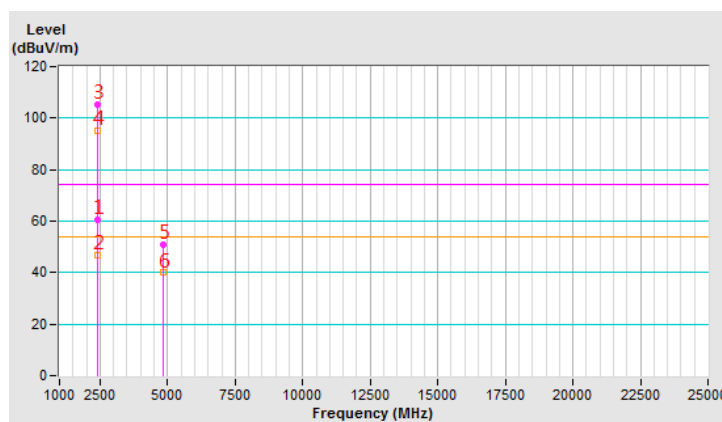


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.59 PK	74.00	-13.41	3.02 V	177	60.15	0.44
2	2390.00	46.65 AV	54.00	-7.35	3.02 V	177	46.21	0.44
3	*2412.00	105.16 PK			3.02 V	177	104.69	0.47
4	*2412.00	95.12 AV			3.02 V	177	94.65	0.47
5	4824.00	50.71 PK	74.00	-23.29	3.71 V	102	42.49	8.22
6	4824.00	39.97 AV	54.00	-14.03	3.71 V	102	31.75	8.22
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

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

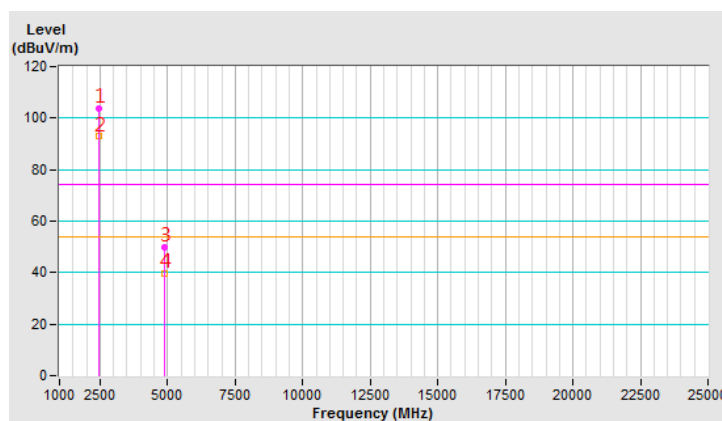


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	103.73 PK			1.48 H	134	103.25	0.48
2	*2437.00	92.85 AV			1.48 H	134	92.37	0.48
3	4874.00	50.06 PK	74.00	-23.94	2.65 H	180	41.67	8.39
4	4874.00	39.60 AV	54.00	-14.40	2.65 H	180	31.21	8.39
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

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



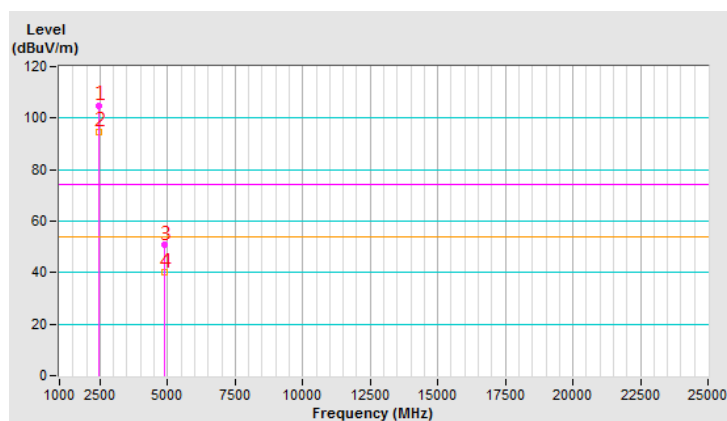
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.73 PK			3.00 V	174	104.25	0.48
2	*2437.00	94.79 AV			3.00 V	174	94.31	0.48
3	4874.00	50.61 PK	74.00	-23.39	3.66 V	100	42.22	8.39
4	4874.00	39.96 AV	54.00	-14.04	3.66 V	100	31.57	8.39
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

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

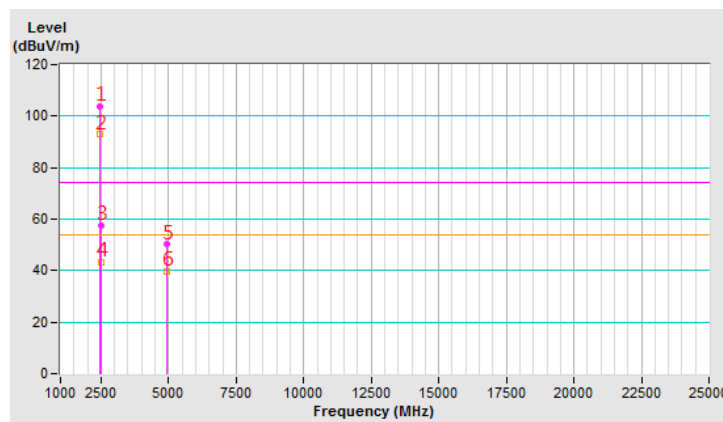


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.71 PK			1.46 H	139	103.18	0.53
2	*2462.00	92.80 AV			1.46 H	139	92.27	0.53
3	2483.50	57.45 PK	74.00	-16.55	1.46 H	139	56.83	0.62
4	2483.50	43.29 AV	54.00	-10.71	1.46 H	139	42.67	0.62
5	4924.00	50.10 PK	74.00	-23.90	2.67 H	174	41.62	8.48
6	4924.00	39.66 AV	54.00	-14.34	2.67 H	174	31.18	8.48
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

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

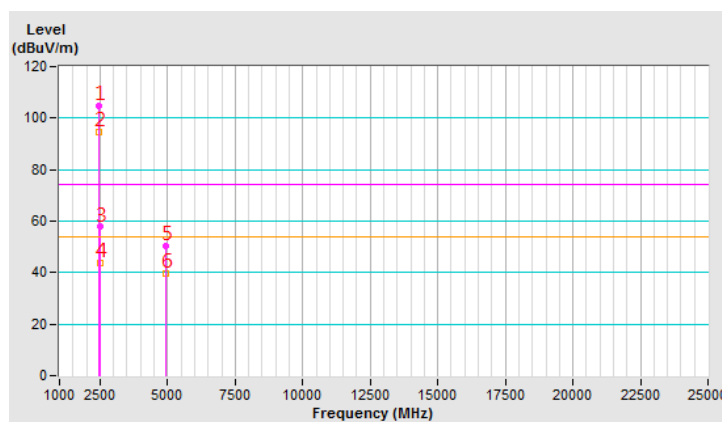


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.59 PK			3.01 V	178	104.06	0.53
2	*2462.00	94.66 AV			3.01 V	178	94.13	0.53
3	2483.50	57.77 PK	74.00	-16.23	3.01 V	178	57.15	0.62
4	2483.50	43.70 AV	54.00	-10.30	3.01 V	178	43.08	0.62
5	4924.00	50.57 PK	74.00	-23.43	3.70 V	97	42.09	8.48
6	4924.00	39.87 AV	54.00	-14.13	3.70 V	97	31.39	8.48
7	7386.00	-	-	-	-	-	-	-
8	#9848.00	-	-	-	-	-	-	-
9	12310.00	-	-	-	-	-	-	-
10	#14772.00	-	-	-	-	-	-	-
11	#17234.00	-	-	-	-	-	-	-
12	19696.00	-	-	-	-	-	-	-
13	22158.00	-	-	-	-	-	-	-
14	#24620.00	-	-	-	-	-	-	-

REMARKS:

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



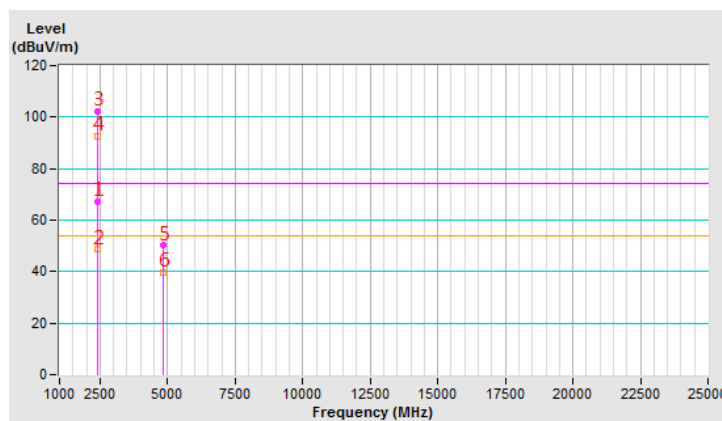
802.11n (40MHz)

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24℃	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.25 PK	74.00	-6.75	1.48 H	132	66.81	0.44
2	2390.00	48.62 AV	54.00	-5.38	1.48 H	132	48.18	0.44
3	*2422.00	102.33 PK			1.48 H	132	101.85	0.48
4	*2422.00	92.55 AV			1.48 H	132	92.07	0.48
5	4844.00	50.16 PK	74.00	-23.84	2.64 H	178	41.88	8.28
6	4844.00	39.57 AV	54.00	-14.43	2.64 H	178	31.29	8.28
7	7266.00	-	-	-	-	-	-	-
8	#9688.00	-	-	-	-	-	-	-
9	12110.00	-	-	-	-	-	-	-
10	#14532.00	-	-	-	-	-	-	-
11	#16954.00	-	-	-	-	-	-	-
12	19376.00	-	-	-	-	-	-	-
13	#21798.00	-	-	-	-	-	-	-
14	#24220.00	-	-	-	-	-	-	-

REMARKS:

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

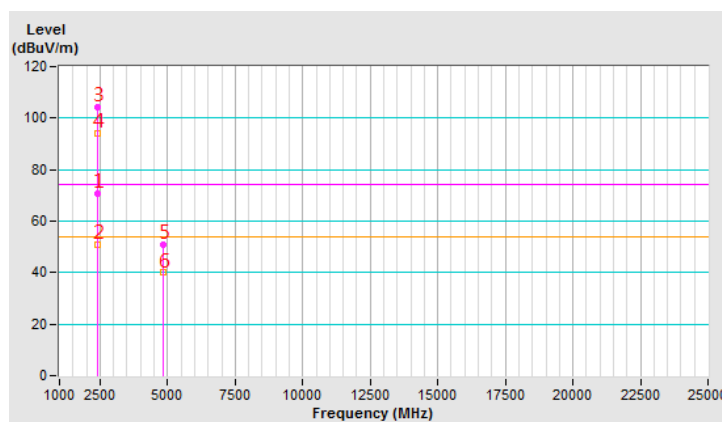


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.57 PK	74.00	-3.43	3.02 V	179	70.13	0.44
2	2390.00	51.06 AV	54.00	-2.94	3.02 V	179	50.62	0.44
3	*2422.00	104.07 PK			3.02 V	179	103.59	0.48
4	*2422.00	94.32 AV			3.02 V	179	93.84	0.48
5	4844.00	50.80 PK	74.00	-23.20	3.64 V	104	42.52	8.28
6	4844.00	39.96 AV	54.00	-14.04	3.64 V	104	31.68	8.28
7	7266.00	-	-	-	-	-	-	-
8	#9688.00	-	-	-	-	-	-	-
9	12110.00	-	-	-	-	-	-	-
10	#14532.00	-	-	-	-	-	-	-
11	#16954.00	-	-	-	-	-	-	-
12	19376.00	-	-	-	-	-	-	-
13	#21798.00	-	-	-	-	-	-	-
14	#24220.00	-	-	-	-	-	-	-

REMARKS:

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

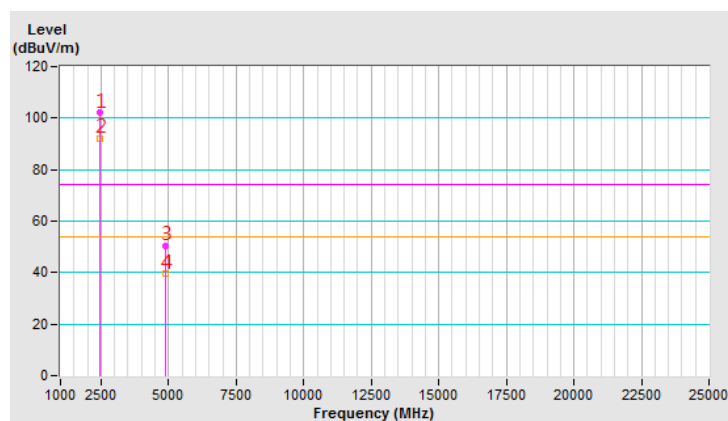


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	101.99 PK			1.50 H	133	101.51	0.48
2	*2437.00	92.22 AV			1.50 H	133	91.74	0.48
3	4874.00	50.18 PK	74.00	-23.82	2.69 H	181	41.79	8.39
4	4874.00	39.45 AV	54.00	-14.55	2.69 H	181	31.06	8.39
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

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

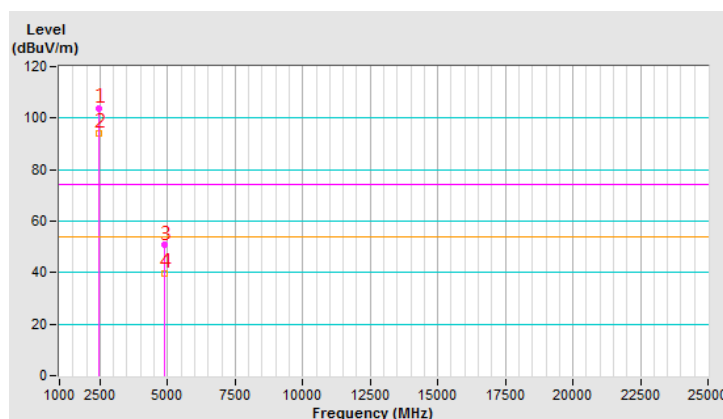


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	103.80 PK			3.01 V	176	103.32	0.48
2	*2437.00	93.95 AV			3.01 V	176	93.47	0.48
3	4874.00	50.65 PK	74.00	-23.35	3.70 V	96	42.26	8.39
4	4874.00	39.84 AV	54.00	-14.16	3.70 V	96	31.45	8.39
5	7311.00	-	-	-	-	-	-	-
6	#9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	#14622.00	-	-	-	-	-	-	-
9	#17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	#21933.00	-	-	-	-	-	-	-
12	#24370.00	-	-	-	-	-	-	-

REMARKS:

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

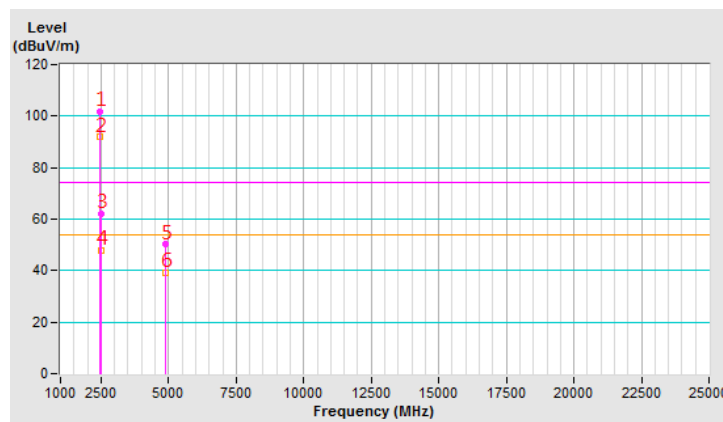


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	101.67 PK			1.47 H	139	101.18	0.49
2	*2452.00	91.86 AV			1.47 H	139	91.37	0.49
3	2483.50	62.18 PK	74.00	-11.82	1.47 H	139	61.56	0.62
4	2483.50	47.99 AV	54.00	-6.01	1.47 H	139	47.37	0.62
5	4904.00	50.14 PK	74.00	-23.86	2.73 H	186	41.66	8.48
6	4904.00	39.35 AV	54.00	-14.65	2.73 H	186	30.87	8.48
7	7356.00	-	-	-	-	-	-	-
8	#9808.00	-	-	-	-	-	-	-
9	12260.00	-	-	-	-	-	-	-
10	#14712.00	-	-	-	-	-	-	-
11	#17164.00	-	-	-	-	-	-	-
12	19616.00	-	-	-	-	-	-	-
13	22068.00	-	-	-	-	-	-	-
14	#24520.00	-	-	-	-	-	-	-

REMARKS:

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

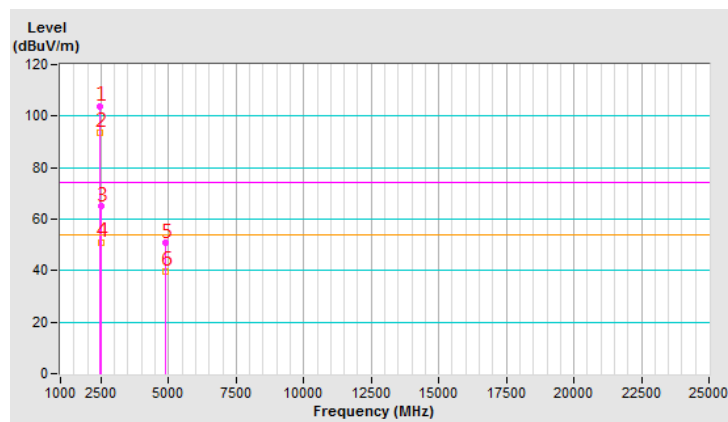


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	103.64 PK			3.00 V	179	103.15	0.49
2	*2452.00	93.77 AV			3.00 V	179	93.28	0.49
3	2483.50	64.91 PK	74.00	-9.09	3.00 V	179	64.29	0.62
4	2483.50	50.74 AV	54.00	-3.26	3.00 V	179	50.12	0.62
5	4904.00	50.65 PK	74.00	-23.35	3.67 V	99	42.17	8.48
6	4904.00	39.87 AV	54.00	-14.13	3.67 V	99	31.39	8.48
7	7356.00	-	-	-	-	-	-	-
8	#9808.00	-	-	-	-	-	-	-
9	12260.00	-	-	-	-	-	-	-
10	#14712.00	-	-	-	-	-	-	-
11	#17164.00	-	-	-	-	-	-	-
12	19616.00	-	-	-	-	-	-	-
13	22068.00	-	-	-	-	-	-	-
14	#24520.00	-	-	-	-	-	-	-

REMARKS:

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



4.6.2 接收諧波

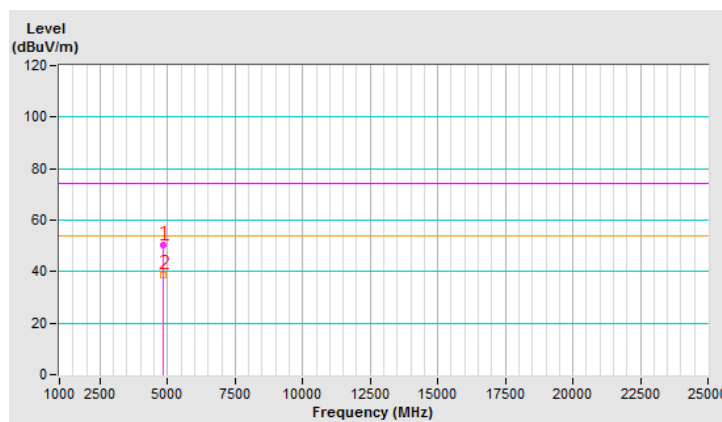
802.11n (20MHz)

操作模式：	接收		
基本波頻率：	CH 1 : 2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.15 PK	74.00	-23.85	1.85 H	217	41.93	8.22
2	4824.00	38.88 AV	54.00	-15.12	1.85 H	217	30.66	8.22

REMARKS:

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

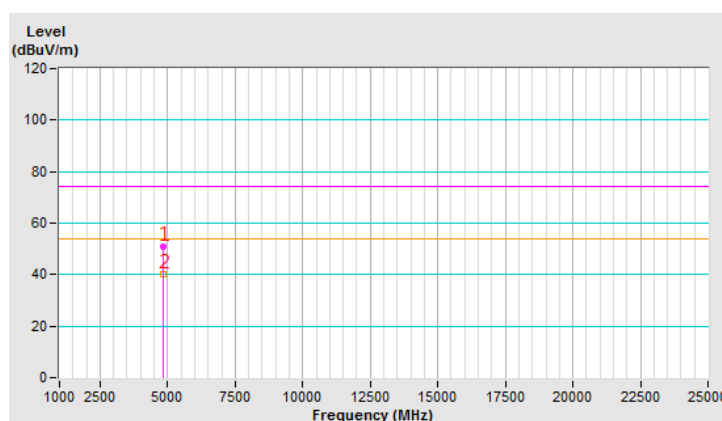


操作模式：	接收		
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.92 PK	74.00	-23.08	3.24 V	306	42.70	8.22
2	4824.00	40.05 AV	54.00	-13.95	3.24 V	306	31.83	8.22

REMARKS:

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



4.6.3 其它不必要之訊號

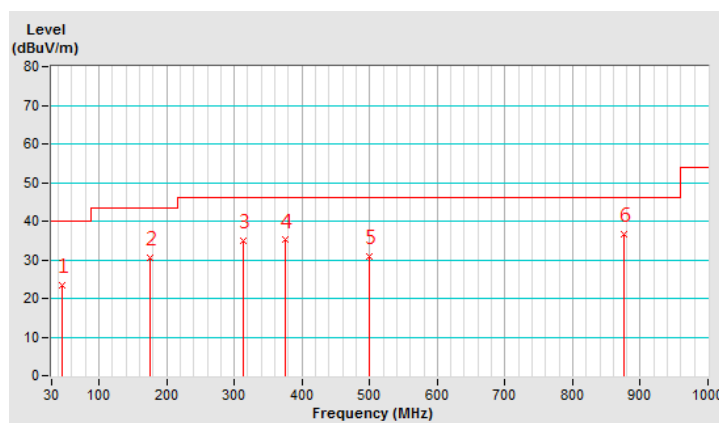
802.11n (20MHz)

操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.18	23.51 QP	40.00	-16.49	1.27 H	360	30.67	-7.16
2	174.97	30.46 QP	43.50	-13.04	1.59 H	360	37.86	-7.40
3	313.34	34.86 QP	46.00	-11.14	1.06 H	146	39.36	-4.50
4	375.03	35.11 QP	46.00	-10.89	1.81 H	48	38.48	-3.37
5	500.01	30.93 QP	46.00	-15.07	2.23 H	188	31.53	-0.60
6	875.02	36.54 QP	46.00	-9.46	1.49 H	231	30.27	6.27

REMARKS:

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

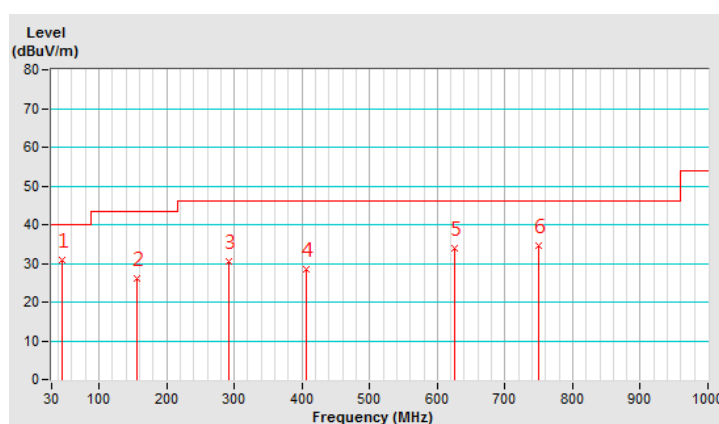


操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.23	30.77 QP	40.00	-9.23	1.81 V	360	37.93	-7.16
2	156.49	26.11 QP	43.50	-17.39	1.93 V	346	32.71	-6.60
3	291.56	30.64 QP	46.00	-15.36	1.24 V	153	35.75	-5.11
4	406.31	28.58 QP	46.00	-17.42	1.56 V	210	31.51	-2.93
5	625.00	33.94 QP	46.00	-12.06	2.09 V	0	31.45	2.49
6	749.98	34.63 QP	46.00	-11.37	2.41 V	360	30.08	4.55

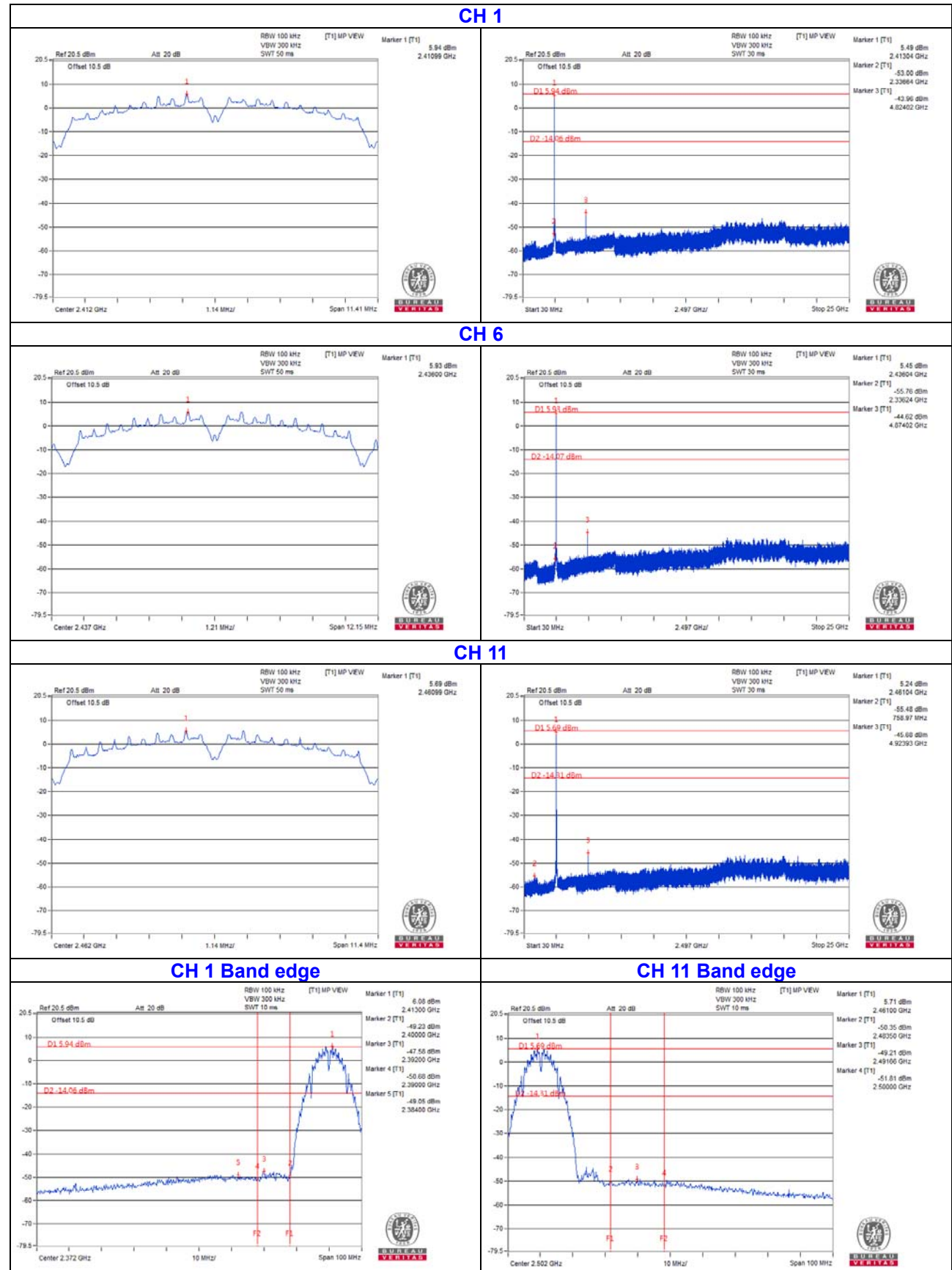
REMARKS:

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



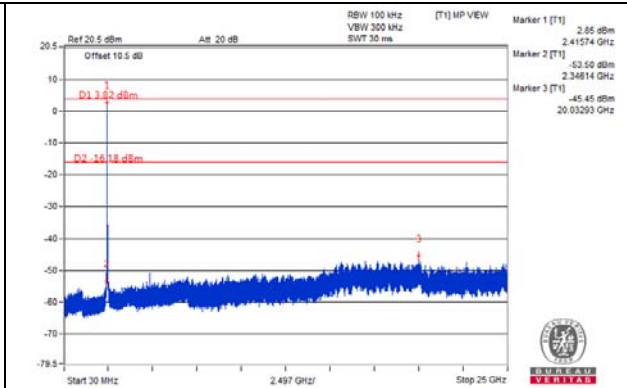
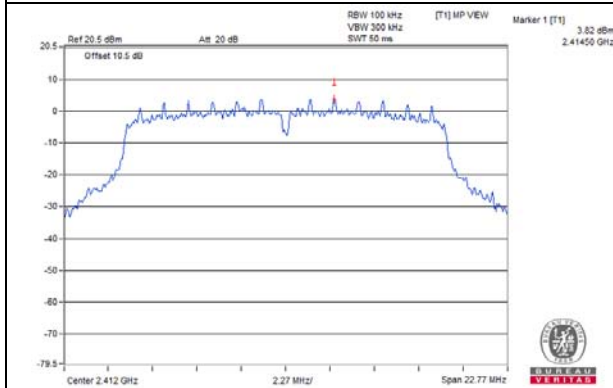
4.7 帶外發射之量測(傳導)

802.11b

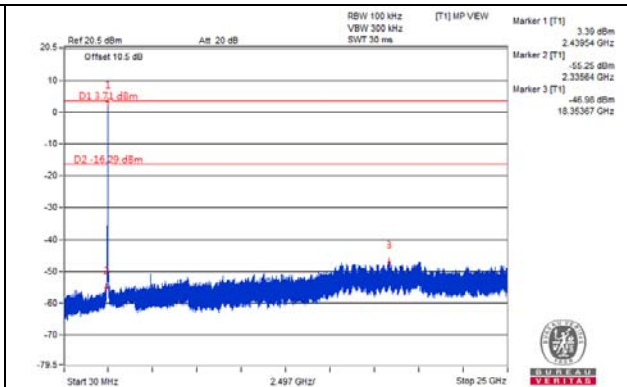
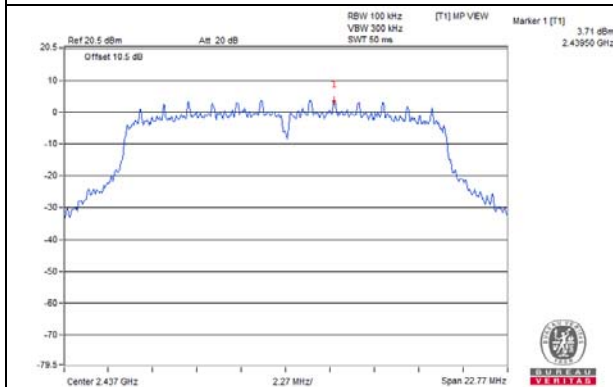


802.11g

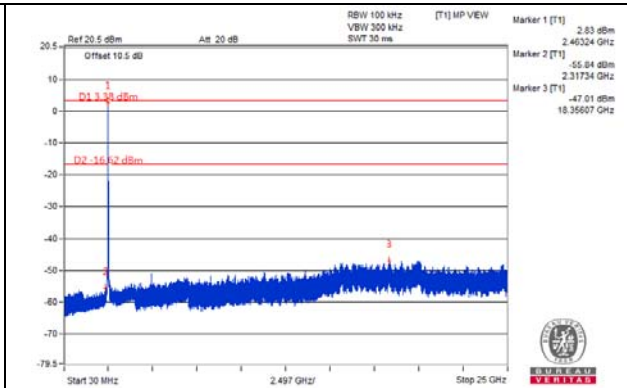
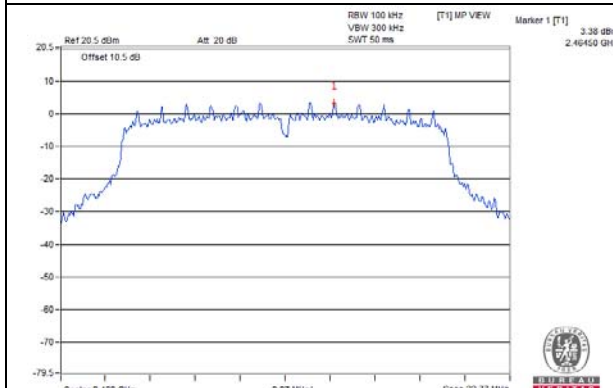
CH 1



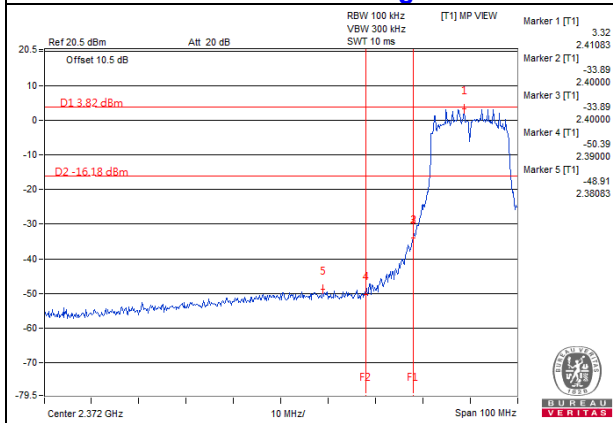
CH 6



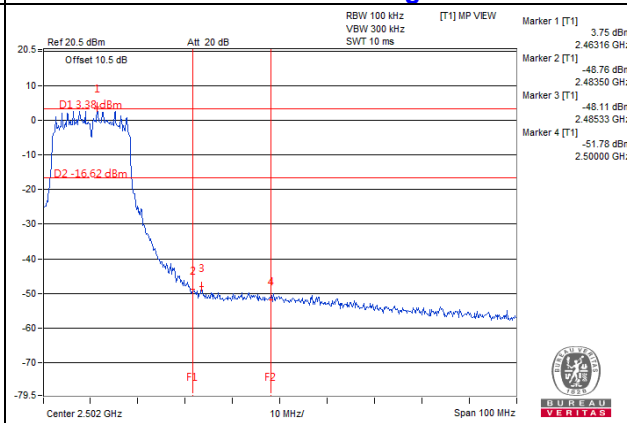
CH 11



CH 1 Band edge

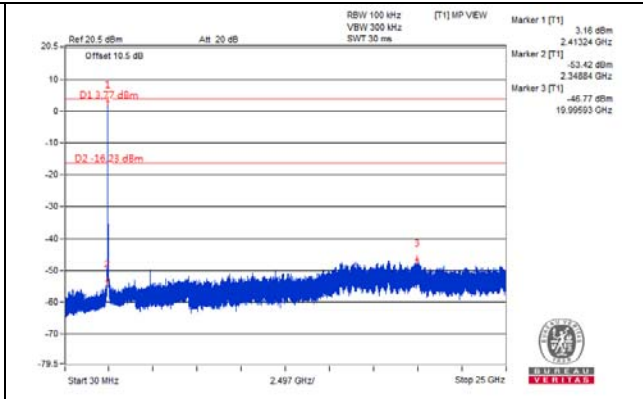
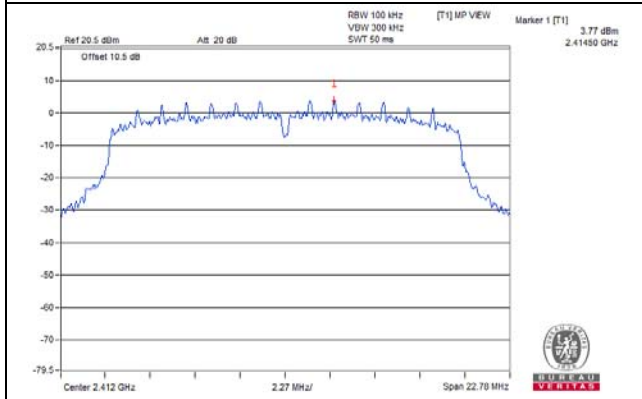


CH 11 Band edge

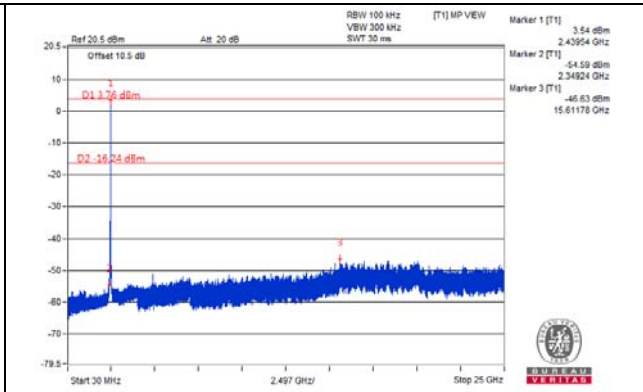
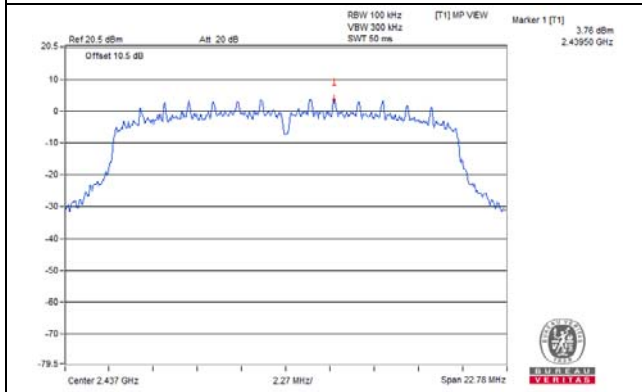


802.11n (20MHz)

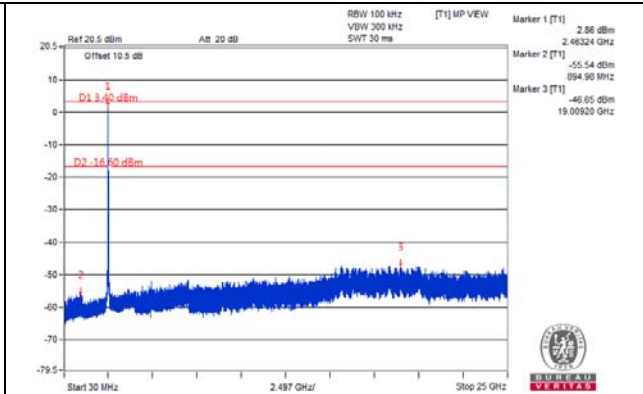
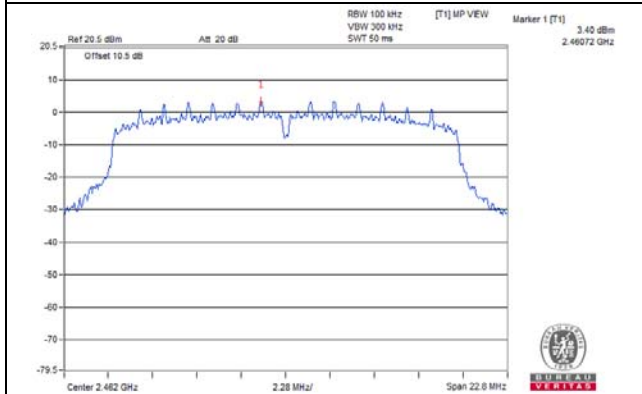
CH 1



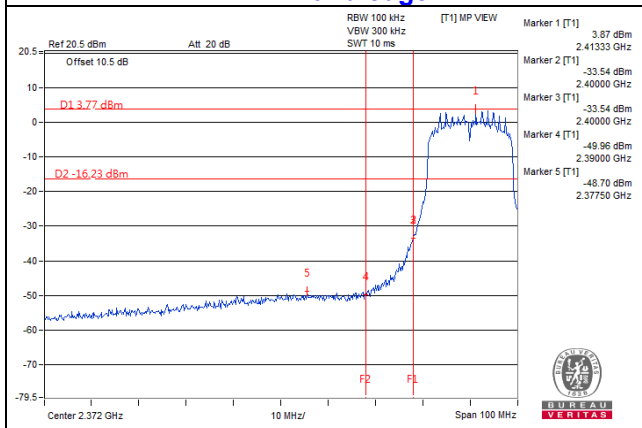
CH 6



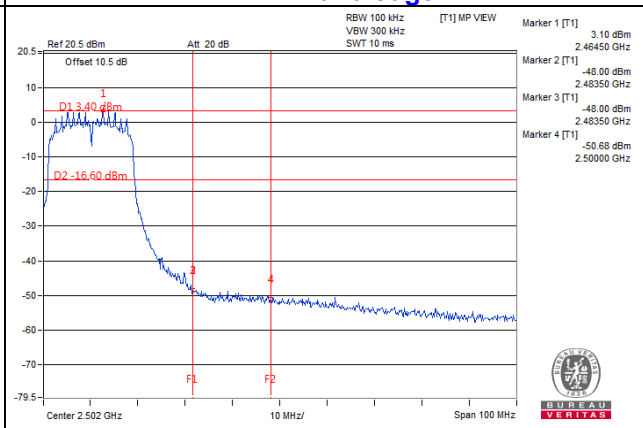
CH 11



CH 1 Band edge

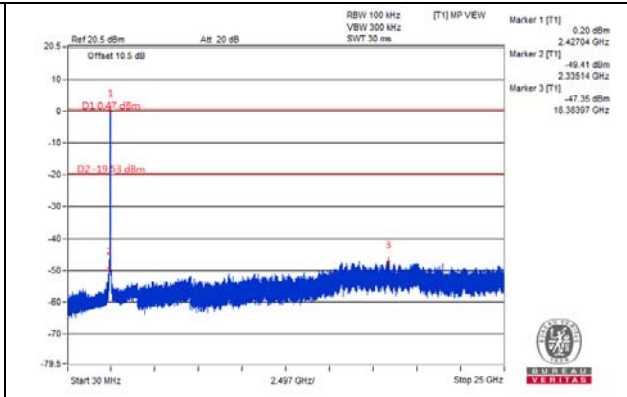
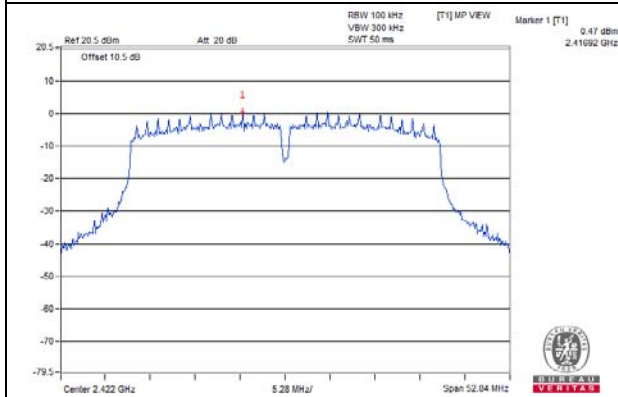


CH 11 Band edge

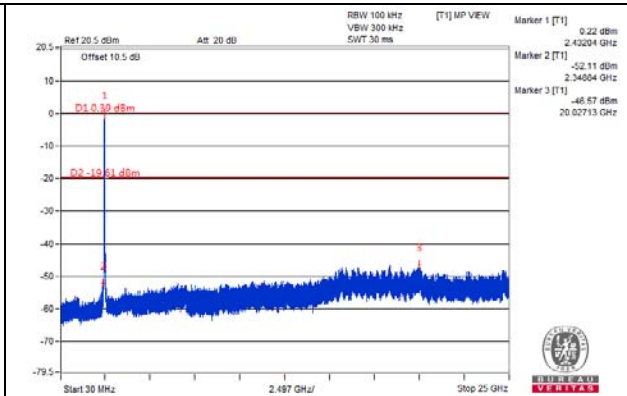
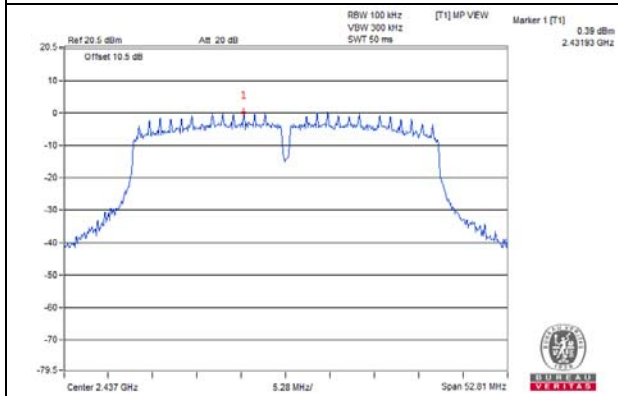


802.11n (40MHz)

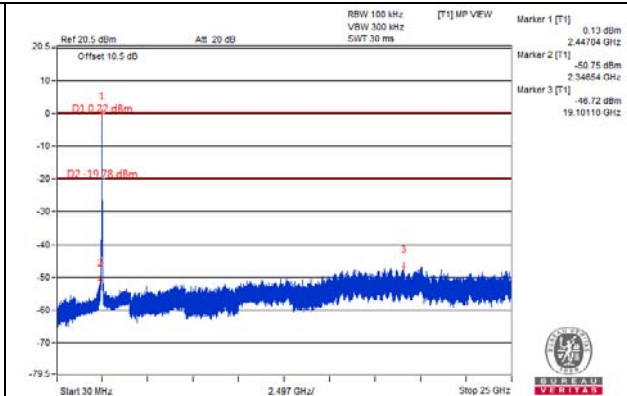
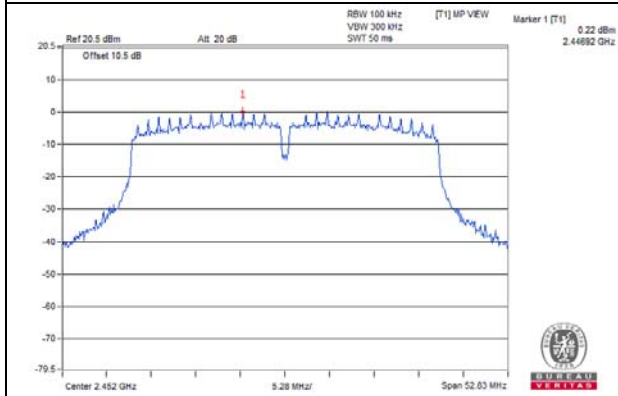
CH 3



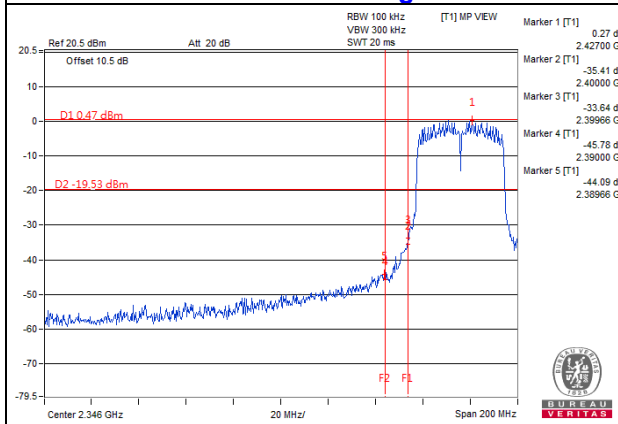
CH 6



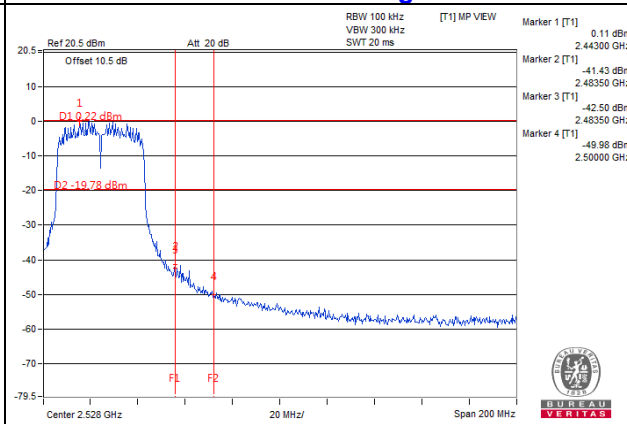
CH 9



CH 3 Band edge



CH 9 Band edge



4.8 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。

4.9 配置照片

請參照 Test Setup Photos

5 電源線傳導干擾之量測

5.1 適用標準

請見本報告 3.1 節第 1 項的規定。

5.2 量測方法

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

5.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100292	Aug. 20, 2019	Aug. 19, 2020
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ENV216	101197	Jun. 5, 2019	Jun. 4, 2020
LISN With Adapter (for EUT)	101197	NA	Jun. 5, 2019	Jun. 4, 2020
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100218	Nov. 24, 2019	Nov. 23, 2020
SCHWARZBECK Artificial Mains Network (For EUT)	NNLK8129	8129229	May 14, 2019	May 13, 2020
SCHWARZBECK Artificial Mains Network (For EUT)	NNLK 8121	8121-808	Mar. 15, 2019	Mar. 14, 2020
Software	Cond_V7.3.7.4	NA	NA	NA
RF cable (JYEBAO) With 10dB PAD	5D-FB	Cable-C10.01	Feb. 12, 2020	Feb. 11, 2021
LYNICS Terminator (For ROHDE & SCHWARZ LISN)	0900510	E1-011484	May 13, 2019	May 12, 2020
ROHDE & SCHWARZ Artificial Mains Network (For TV EUT)	ENV216	101196	Apr. 16, 2019	Apr. 15, 2020
LISN With Adapter (for TV EUT)	101196	NA	Apr. 16, 2019	Apr. 15, 2020

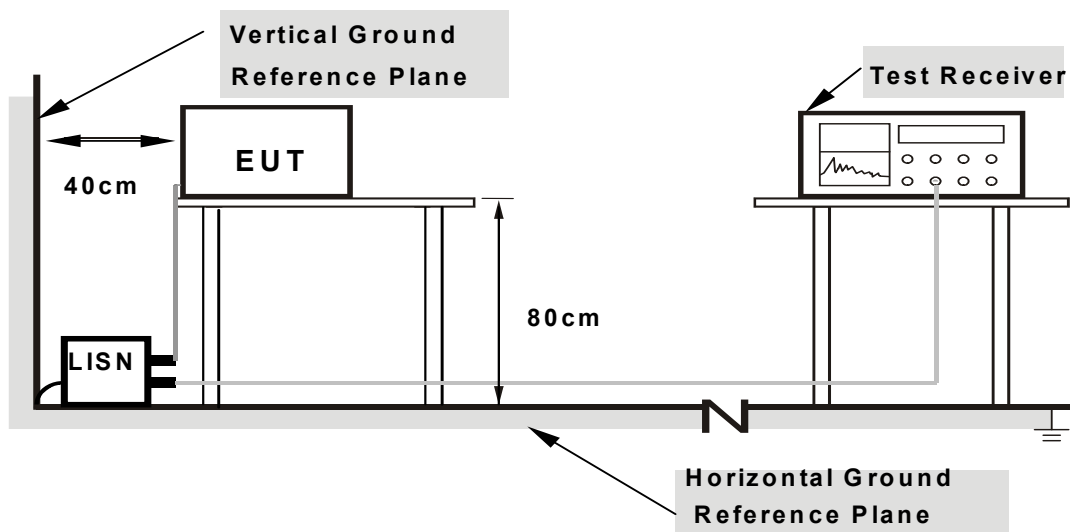
Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in Shielded Room No. 10.

3. The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4. This uncertainty represents an expanded uncert

Measurement	Uncertainty
Conducted emissions	±2.94

5.4 測試配置



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

5.5 干擾值之計算

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

電源傳導干擾電壓之計算公式如下

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

其中校正因子 Correction Factor (dB)為：

饋線損失+電源阻抗模擬網路損失

5.6 量測結果

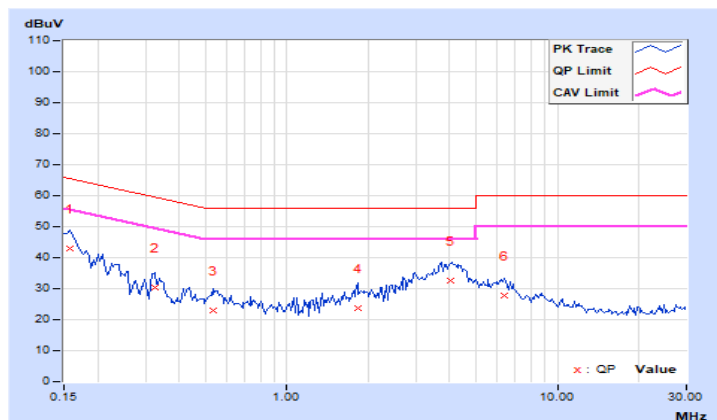
802.11n (20MHz)

操作模式	發射/接收	測試日期	109 年 3 月 12 日
基本波頻率	CH 1 : 2412 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	張君煌		

		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.
0.15781	9.64	33.32	17.18	42.96	26.82	65.58	55.58	-22.62	-28.76
0.32578	9.64	20.78	10.82	30.42	20.46	59.56	49.56	-29.14	-29.10
0.53281	9.65	13.36	7.73	23.01	17.38	56.00	46.00	-32.99	-28.62
1.83203	9.70	13.97	5.68	23.67	15.38	56.00	46.00	-32.33	-30.62
4.03125	9.76	22.84	15.45	32.60	25.21	56.00	46.00	-23.40	-20.79
6.33594	9.79	18.13	12.06	27.92	21.85	60.00	50.00	-32.08	-28.15

NOTE:

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

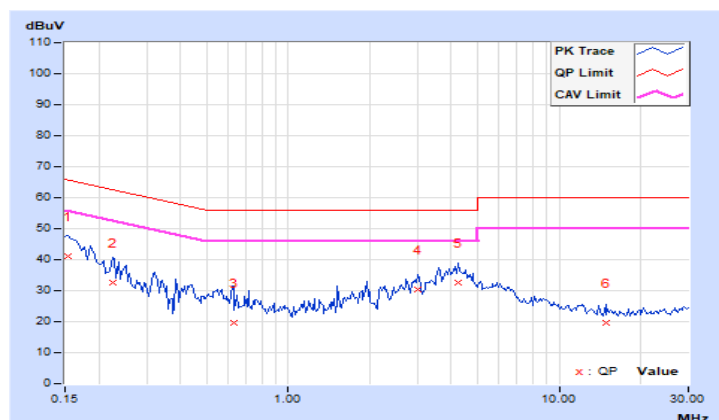


操作模式	發射/接收	測試日期	109 年 3 月 12 日
基本波頻率	CH 1 : 2412 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張君煌		

		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.
0.15391	9.66	31.52	16.72	41.18	26.38	65.79	55.79	-24.61	-29.41
0.22422	9.66	23.01	7.96	32.67	17.62	62.66	52.66	-29.99	-35.04
0.62656	9.68	9.93	3.73	19.61	13.41	56.00	46.00	-36.39	-32.59
3.01953	9.76	20.66	11.22	30.42	20.98	56.00	46.00	-25.58	-25.02
4.25781	9.79	22.75	15.77	32.54	25.56	56.00	46.00	-23.46	-20.44
14.82813	9.96	9.73	3.88	19.69	13.84	60.00	50.00	-40.31	-36.16

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

請參照 Test Setup Photos

6 6 dB 頻寬之要求

6.1 適用標準

請見本報告 3.1 節第 5 項(I)的規定。

6.2 量測方法

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

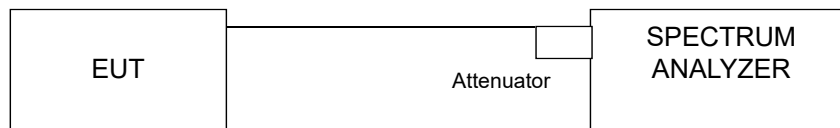
6.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 23, 2019	Sep. 22, 2020

NOTE:

- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- The measurement uncertainty is $\pm 2.63\text{dB}$, 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	109 年 2 月 14 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.61	0.5	PASS
6	2437	8.10	0.5	PASS
11	2462	7.60	0.5	PASS

802.11g

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

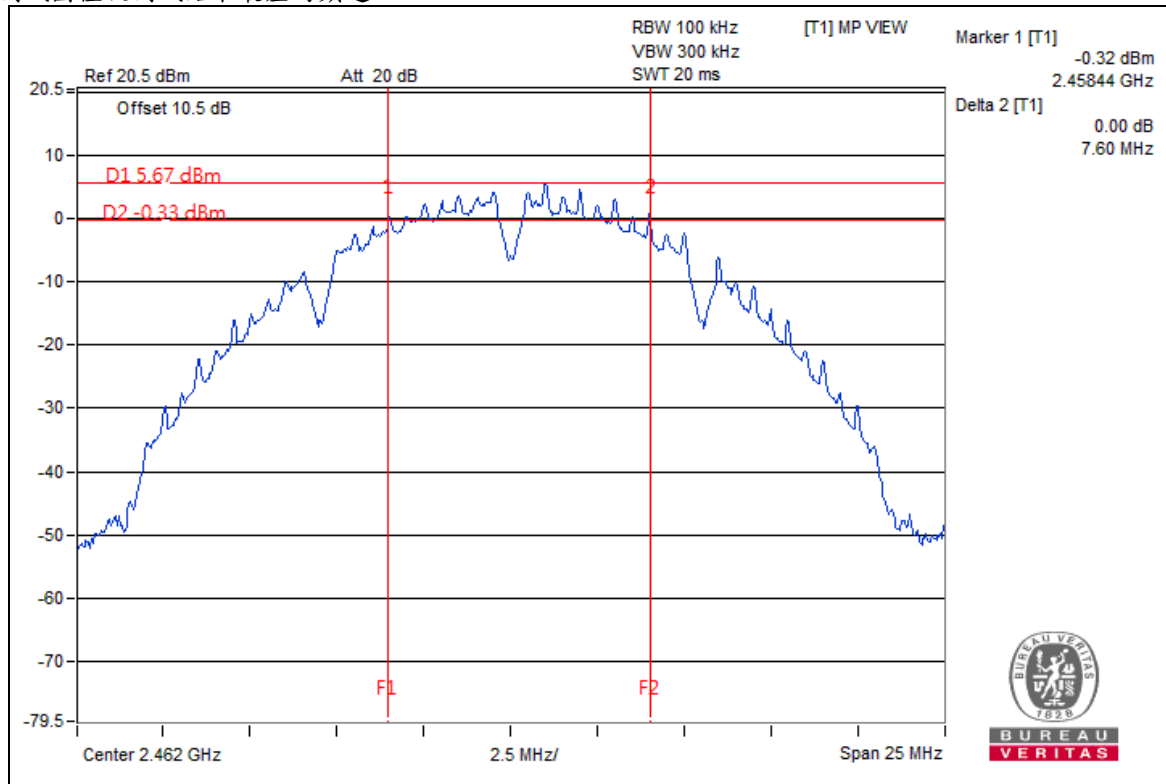
802.11n (20MHz)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.19	0.5	Pass
6	2437	15.19	0.5	Pass
11	2462	15.20	0.5	Pass

802.11n (40MHz)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	35.23	0.5	Pass
6	2437	35.21	0.5	Pass
9	2452	35.22	0.5	Pass

**此測試圖僅放測試結果最差的頻道。



6.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

7 傳導輸出功率之量測

7.1 適用標準

請見本報告 3.1 節第 6 項(I)及 4 項(I)的規定。

7.2 量測方法

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

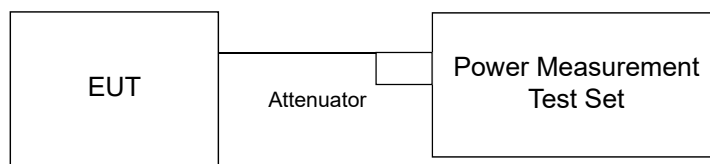
7.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
KEYSIGHT MIMO Powermeasurement Test set	U2021XA	U2021XA-001	Jun. 11, 2019	Jun. 10, 2020

NOTE:

- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- The measurement uncertainty is 2.63dB, 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.

7.4 測試配置



7.5 量測結果

操作模式	發射	測試日期	109 年 2 月 14 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

FOR PEAK POWER

802.11b

Channel	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	53.580	17.29	30.00	Pass
6	2437	53.580	17.29	30.00	Pass
11	2462	49.888	16.98	30.00	Pass

802.11g

Channel	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	123.595	20.92	30.00	Pass
6	2437	106.170	20.26	30.00	Pass
11	2462	103.514	20.15	30.00	Pass

802.11n (20MHz)

Channel	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	117.490	20.70	30.00	Pass
6	2437	105.925	20.25	30.00	Pass
11	2462	97.051	19.87	30.00	Pass

802.11n (40MHz)

Channel	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	118.577	20.74	30.00	Pass
6	2437	115.611	20.63	30.00	Pass
9	2452	111.686	20.48	30.00	Pass

FOR AVERAGE POWER

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	29.648	14.72
6	2437	29.242	14.66
11	2462	27.102	14.33

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	31.769	15.02
6	2437	31.261	14.95
11	2462	28.642	14.57

802.11n (20MHz)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	31.046	14.92
6	2437	29.444	14.69
11	2462	27.990	14.47

802.11n (40MHz)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
3	2422	30.061	14.78
6	2437	28.774	14.59
9	2452	28.119	14.49

7.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

8 功率頻譜密度之量測

8.1 適用標準

請見本報告 3.1 節第 7 項(I)的規定。

8.2 量測方法

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

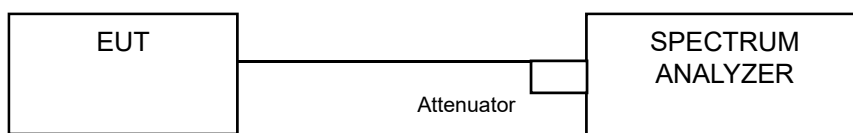
8.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 23, 2019	Sep. 22, 2020

NOTE:

- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- The measurement uncertainty is $\pm 2.63\text{dB}$, 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	109 年 2 月 14 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

802.11b

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Pass /Fail
1	2412	-10.29	8.00	Pass
6	2437	-10.16	8.00	Pass
11	2462	-11.44	8.00	Pass

802.11g

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Pass /Fail
1	2412	-11.13	8.00	Pass
6	2437	-11.06	8.00	Pass
11	2462	-11.70	8.00	Pass

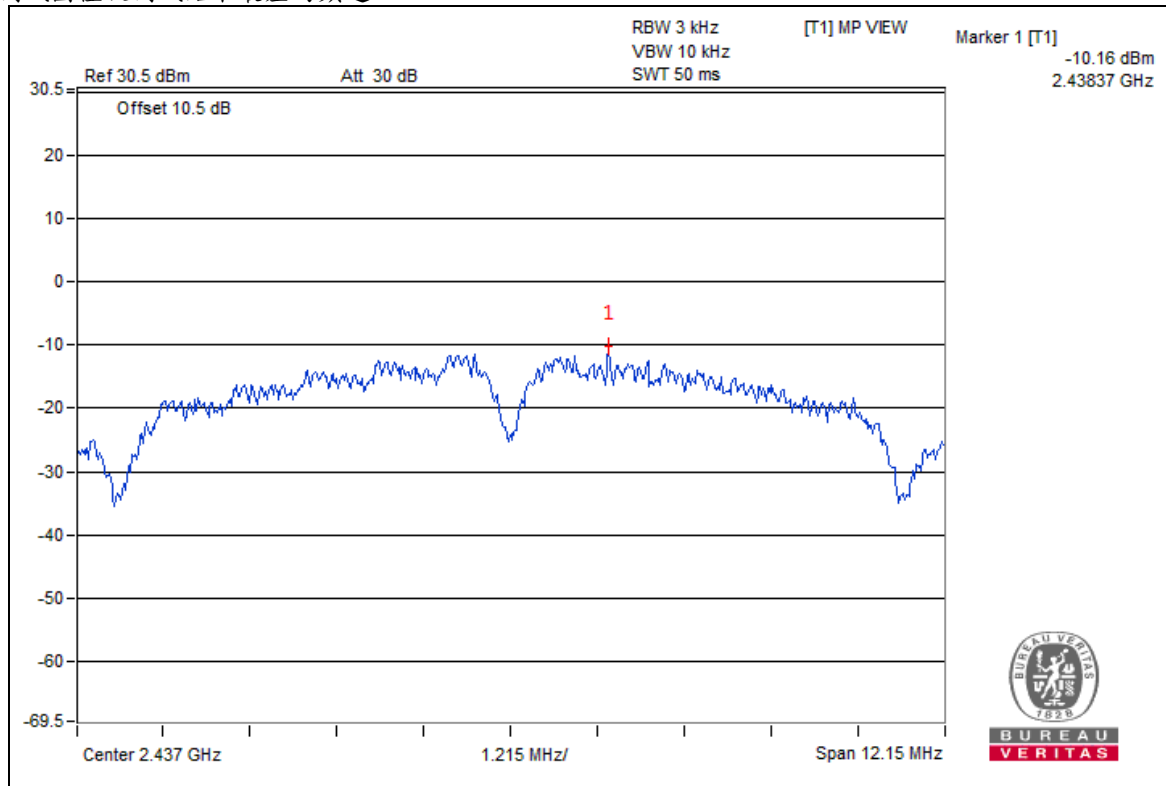
802.11n (20MHz)

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Pass /Fail
1	2412	-12.42	8.00	Pass
6	2437	-13.22	8.00	Pass
11	2462	-12.07	8.00	Pass

802.11n (40MHz)

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Pass /Fail
3	2422	-15.73	8.00	Pass
6	2437	-15.28	8.00	Pass
9	2452	-15.19	8.00	Pass

**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

量測頻率 9kHz ~ 30MHz :

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米外離地1米的高度。測試桌面要360度旋轉，另外接收天線也要分別設置為Open軸性(Loop antenna面向EUT)與Close軸性(Loop antenna與EUT垂直)與ground-parallel軸性(Loop antenna面向地板) 作量測，以找出最大的輻射電場強度。

量測頻率 30MHz 以上:

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

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

9.3 量測儀器

同 4.3 節

9.4 帶外發射之測試配置

同 4.4 節

9.5 場強度之計算

場強之計算公式如下：

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

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

*有效等向輻射功率限制值轉換場強值如下：

Applicable To		Limit	
KDB 789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBuV/m)	AV:54 (dBuV/m)
操作頻帶	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	技術規範 4.7.4.1 節	PK:-27 (dBm/MHz)	PK:68.2(dBuV/m)
5250~5350 MHz	技術規範 4.7.4.1 節		
5470~5725 MHz	技術規範 4.7.4.1 節		
5725~5850 MHz	☒ 技術規範 4.7.4.2 節	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2(dBuV/m) ^{*1} PK:105.2 (dBuV/m) ^{*2} PK: 110.8(dBuV/m) ^{*3} PK:122.2 (dBuV/m) ^{*4}
	☐ 技術規範 4.7.4.7 節	適用 3.10.1.5 節帶外發射限制	
*1 beyond 75 MHz or more above of the band edge.		*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note:

有效等向輻射功率限制值轉換場強之公式如下：

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

E: 以最寬解析頻寬所測得之最大場強值，單位:V/m。

G: 發射天線相對於全向性輻射器之數值增益。

d: 測試場強的距離，單位: m。

P: 求得之功率，單位:W。

9.6 帶外發射之量測結果

9.6.1 發射諧波

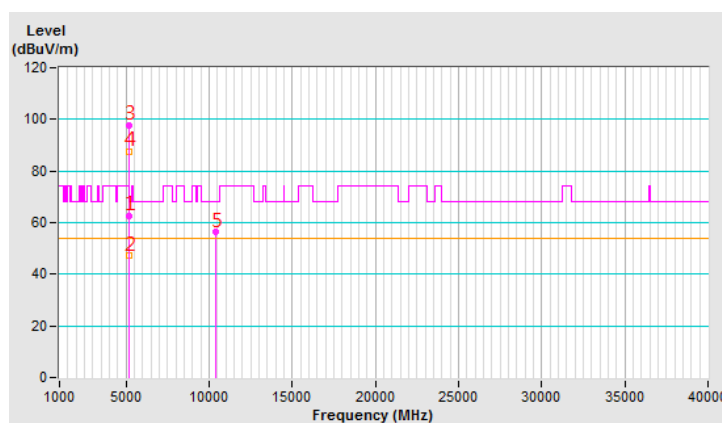
802.11a

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36 : 5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.79 PK	74.00	-11.21	1.53 H	132	53.87	8.92
2	5150.00	47.11 AV	54.00	-6.89	1.53 H	132	38.19	8.92
3	*5180.00	97.86 PK			1.53 H	132	88.85	9.01
4	*5180.00	87.63 AV			1.53 H	132	78.62	9.01
5	#10360.00	56.22 PK	68.20	-11.98	2.71 H	184	40.24	15.98
6	15540.00	-	-	-	-	-	-	-
7	20720.00	-	-	-	-	-	-	-
8	#25900.00	-	-	-	-	-	-	-
9	#31080.00	-	-	-	-	-	-	-
10	#36260.00	-	-	-	-	-	-	-

REMARKS:

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

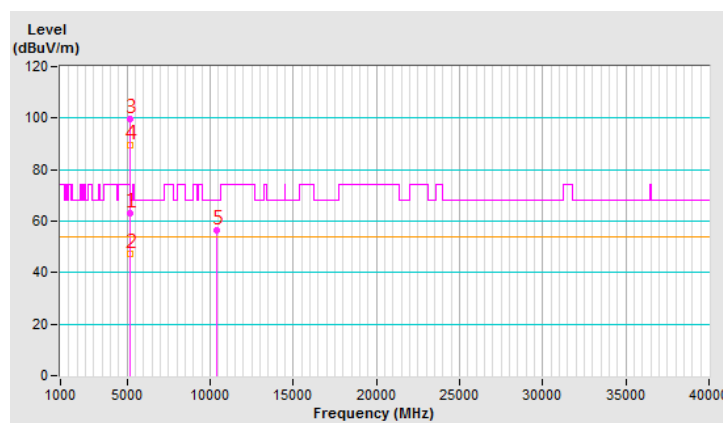


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.20 PK	74.00	-10.80	2.43 V	177	54.28	8.92
2	5150.00	47.43 AV	54.00	-6.57	2.43 V	177	38.51	8.92
3	*5180.00	99.68 PK			2.43 V	177	90.67	9.01
4	*5180.00	89.49 AV			2.43 V	177	80.48	9.01
5	#10360.00	56.51 PK	68.20	-11.69	3.56 V	105	40.53	15.98
6	15540.00	-	-	-	-	-	-	-
7	20720.00	-	-	-	-	-	-	-
8	#25900.00	-	-	-	-	-	-	-
9	#31080.00	-	-	-	-	-	-	-
10	#36260.00	-	-	-	-	-	-	-

REMARKS:

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

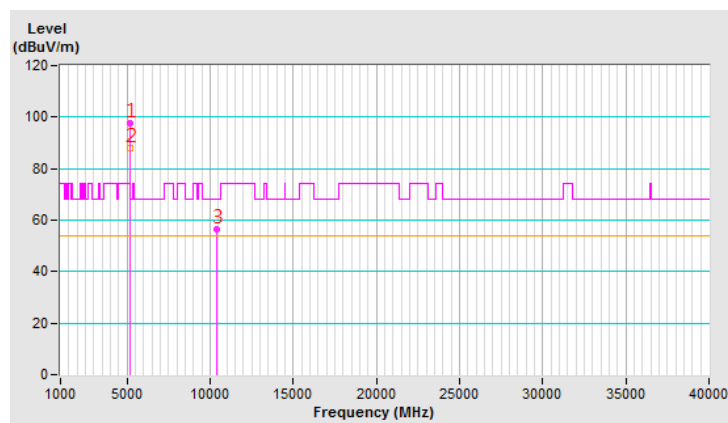


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	97.72 PK			1.50 H	130	88.67	9.05
2	*5200.00	87.84 AV			1.50 H	130	78.79	9.05
3	#10400.00	56.32 PK	68.20	-11.88	2.67 H	179	40.19	16.13
4	15600.00	-	-	-	-	-	-	-
5	20800.00	-	-	-	-	-	-	-
6	#26000.00	-	-	-	-	-	-	-
7	31200.00	-	-	-	-	-	-	-
8	#36400.00	-	-	-	-	-	-	-

REMARKS:

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

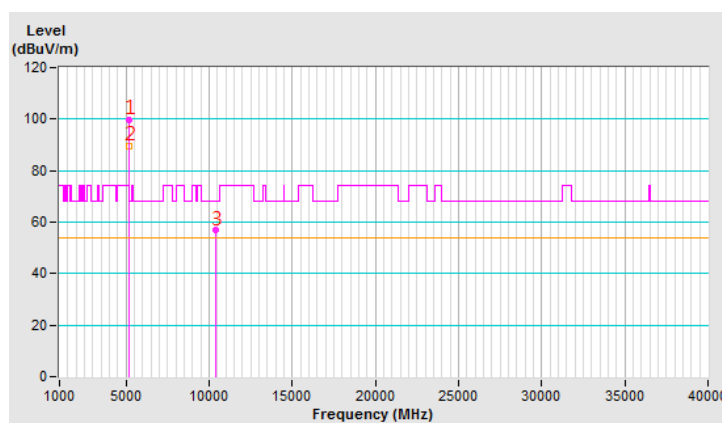


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	99.59 PK			2.51 V	178	90.54	9.05
2	*5200.00	89.34 AV			2.51 V	178	80.29	9.05
3	#10400.00	56.72 PK	68.20	-11.48	3.59 V	102	40.59	16.13
4	15600.00	-	-	-	-	-	-	-
5	20800.00	-	-	-	-	-	-	-
6	#26000.00	-	-	-	-	-	-	-
7	31200.00	-	-	-	-	-	-	-
8	#36400.00	-	-	-	-	-	-	-

REMARKS:

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

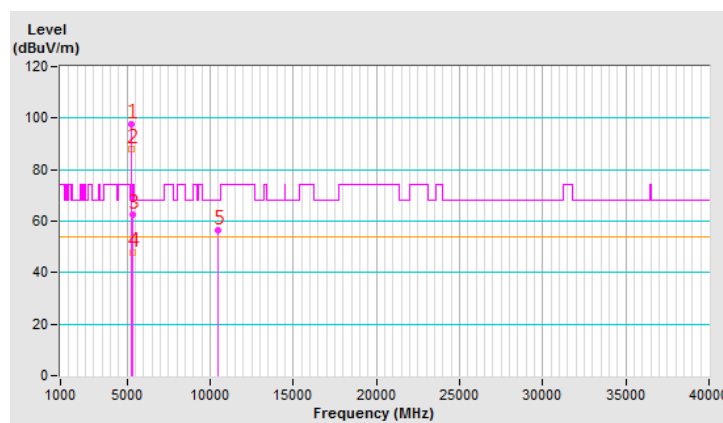


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	97.76 PK			1.48 H	133	88.51	9.25
2	*5240.00	87.84 AV			1.48 H	133	78.59	9.25
3	5350.00	62.60 PK	74.00	-11.40	1.48 H	133	52.76	9.84
4	5350.00	47.99 AV	54.00	-6.01	1.48 H	133	38.15	9.84
5	#10480.00	56.62 PK	68.20	-11.58	2.69 H	183	40.21	16.41
6	15720.00	-	-	-	-	-	-	-
7	20960.00	-	-	-	-	-	-	-
8	#26200.00	-	-	-	-	-	-	-
9	31440.00	-	-	-	-	-	-	-
10	#36680.00	-	-	-	-	-	-	-

REMARKS:

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

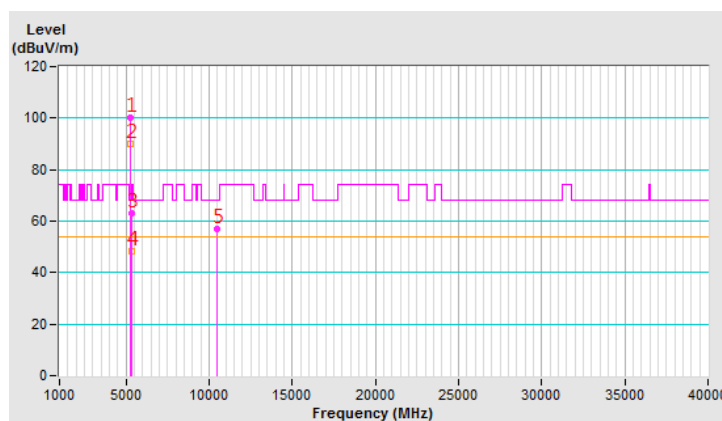


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	109 年 1 月 1 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	100.10 PK			2.46 V	175	90.85	9.25
2	*5240.00	90.19 AV			2.46 V	175	80.94	9.25
3	5350.00	62.89 PK	74.00	-11.11	2.46 V	175	53.05	9.84
4	5350.00	48.25 AV	54.00	-5.75	2.46 V	175	38.41	9.84
5	#10480.00	56.84 PK	68.20	-11.36	3.52 V	94	40.43	16.41
6	15720.00	-	-	-	-	-	-	-
7	20960.00	-	-	-	-	-	-	-
8	#26200.00	-	-	-	-	-	-	-
9	31440.00	-	-	-	-	-	-	-
10	#36680.00	-	-	-	-	-	-	-

REMARKS:

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

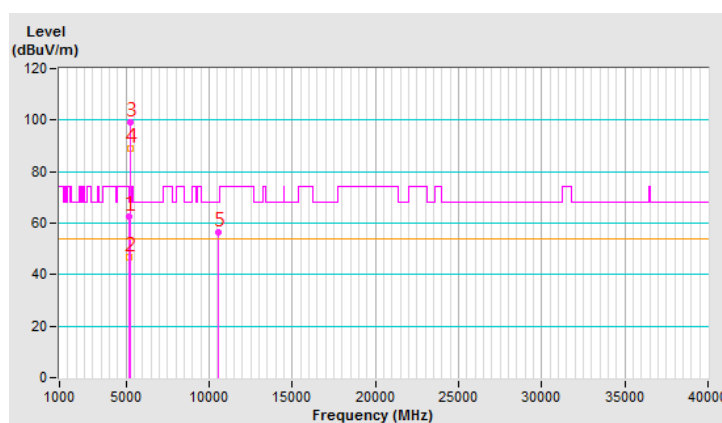


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 52：5260 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.49 PK	74.00	-11.51	1.48 H	130	53.57	8.92
2	5150.00	46.84 AV	54.00	-7.16	1.48 H	130	37.92	8.92
3	*5260.00	99.03 PK			1.48 H	130	89.69	9.34
4	*5260.00	89.15 AV			1.48 H	130	79.81	9.34
5	#10520.00	56.67 PK	68.20	-11.53	2.65 H	177	40.18	16.49
6	15780.00	-	-	-	-	-	-	-
7	21040.00	-	-	-	-	-	-	-
8	#26300.00	-	-	-	-	-	-	-
9	31560.00	-	-	-	-	-	-	-
10	#36820.00	-	-	-	-	-	-	-

REMARKS:

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

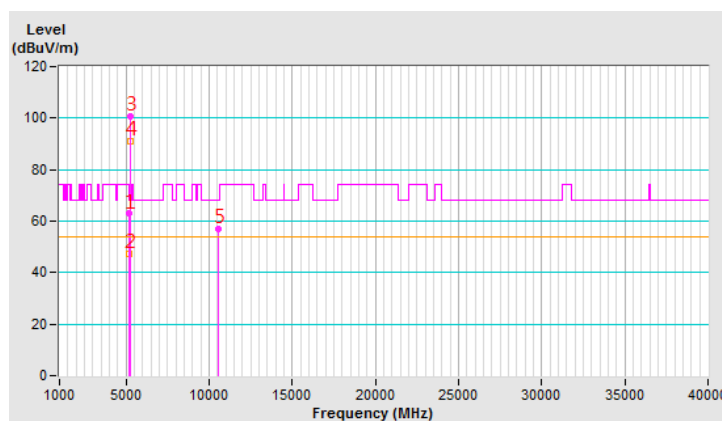


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 52：5260 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.86 PK	74.00	-11.14	1.19 V	20	53.94	8.92
2	5150.00	47.29 AV	54.00	-6.71	1.19 V	20	38.37	8.92
3	*5260.00	100.91 PK			1.19 V	20	91.57	9.34
4	*5260.00	91.22 AV			1.19 V	20	81.88	9.34
5	#10520.00	56.97 PK	68.20	-11.23	3.52 V	103	40.48	16.49
6	15780.00	-	-	-	-	-	-	-
7	21040.00	-	-	-	-	-	-	-
8	#26300.00	-	-	-	-	-	-	-
9	31560.00	-	-	-	-	-	-	-
10	#36820.00	-	-	-	-	-	-	-

REMARKS:

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

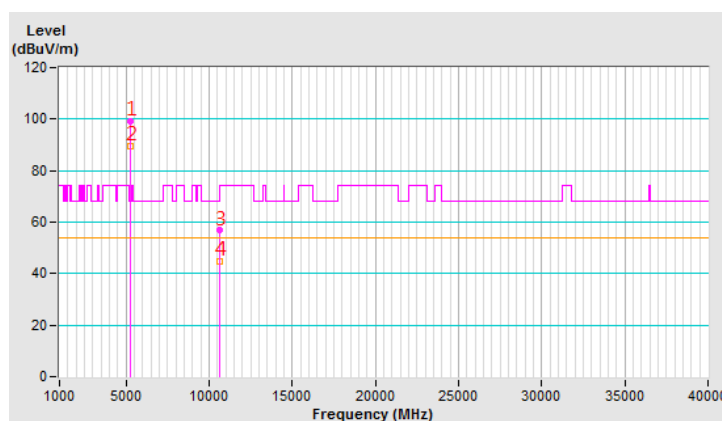


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 60：5300 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	99.33 PK			1.49 H	134	89.75	9.58
2	*5300.00	89.52 AV			1.49 H	134	79.94	9.58
3	10600.00	56.75 PK	74.00	-17.25	2.67 H	181	40.22	16.53
4	10600.00	44.72 AV	54.00	-9.28	2.67 H	181	28.19	16.53
5	15900.00	-	-	-	-	-	-	-
6	21200.00	-	-	-	-	-	-	-
7	#26500.00	-	-	-	-	-	-	-
8	31800.00	-	-	-	-	-	-	-
9	#37100.00	-	-	-	-	-	-	-

REMARKS:

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

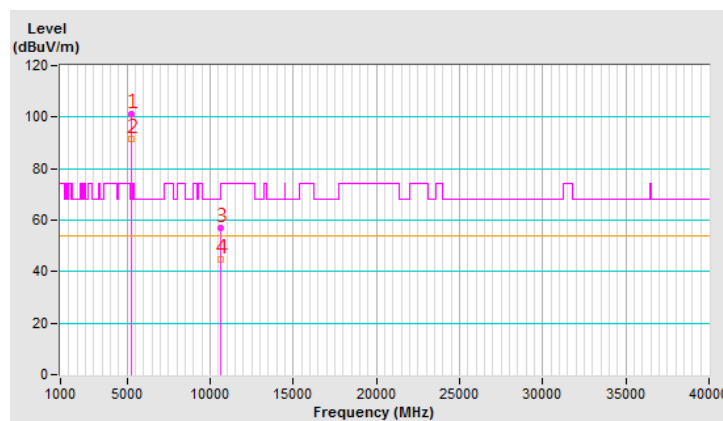


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 60：5300 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	101.21 PK			1.21 V	18	91.63	9.58
2	*5300.00	91.52 AV			1.21 V	18	81.94	9.58
3	10600.00	57.03 PK	74.00	-16.97	3.55 V	99	40.50	16.53
4	10600.00	44.99 AV	54.00	-9.01	3.55 V	99	28.46	16.53
5	15900.00	-	-	-	-	-	-	-
6	21200.00	-	-	-	-	-	-	-
7	#26500.00	-	-	-	-	-	-	-
8	31800.00	-	-	-	-	-	-	-
9	#37100.00	-	-	-	-	-	-	-

REMARKS:

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

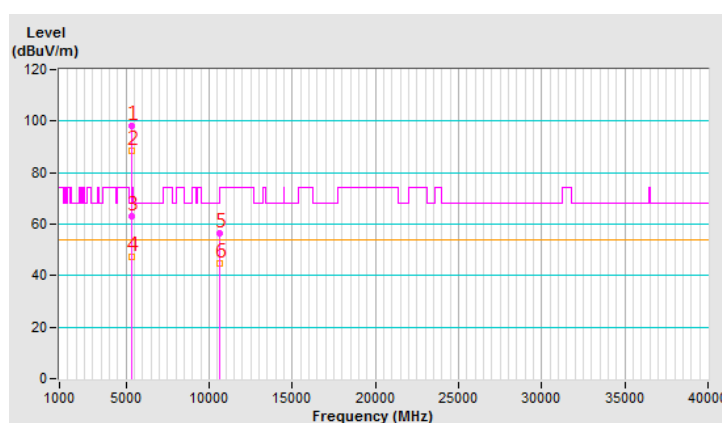


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 64：5320 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	98.21 PK			1.54 H	131	88.53	9.68
2	*5320.00	88.35 AV			1.54 H	131	78.67	9.68
3	5350.00	63.11 PK	74.00	-10.89	1.54 H	131	53.27	9.84
4	5350.00	47.39 AV	54.00	-6.61	1.54 H	131	37.55	9.84
5	10640.00	56.64 PK	74.00	-17.36	2.62 H	179	40.19	16.45
6	10640.00	44.58 AV	54.00	-9.42	2.62 H	179	28.13	16.45
7	15960.00	-	-	-	-	-	-	-
8	21280.00	-	-	-	-	-	-	-
9	#26600.00	-	-	-	-	-	-	-
10	#31920.00	-	-	-	-	-	-	-
11	#37240.00	-	-	-	-	-	-	-

REMARKS:

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

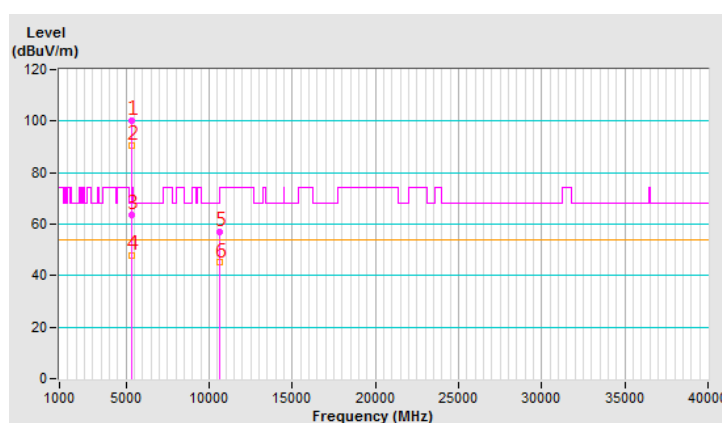


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 64：5320 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	100.42 PK			1.22 V	23	90.74	9.68
2	*5320.00	90.63 AV			1.22 V	23	80.95	9.68
3	5350.00	63.51 PK	74.00	-10.49	1.22 V	23	53.67	9.84
4	5350.00	47.73 AV	54.00	-6.27	1.22 V	23	37.89	9.84
5	10640.00	57.00 PK	74.00	-17.00	3.60 V	101	40.55	16.45
6	10640.00	45.03 AV	54.00	-8.97	3.60 V	101	28.58	16.45
7	15960.00	-	-	-	-	-	-	-
8	21280.00	-	-	-	-	-	-	-
9	#26600.00	-	-	-	-	-	-	-
10	#31920.00	-	-	-	-	-	-	-
11	#37240.00	-	-	-	-	-	-	-

REMARKS:

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

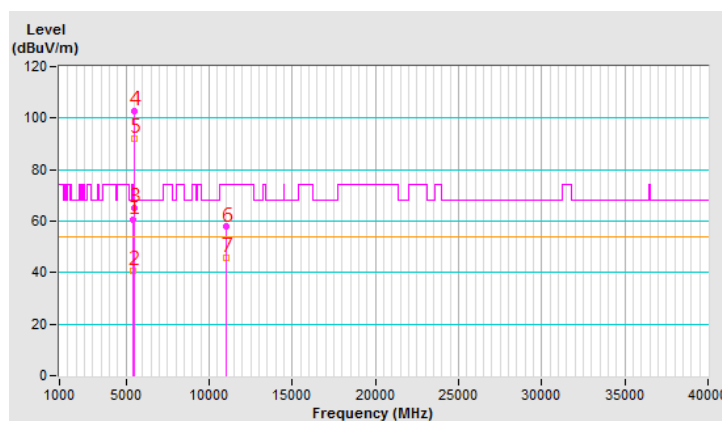


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 100：5500 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.52 PK	74.00	-13.48	1.00 H	232	50.15	10.37
2	5460.00	40.78 AV	54.00	-13.22	1.00 H	232	30.41	10.37
3	#5470.00	65.00 PK	68.20	-3.20	1.00 H	232	54.58	10.42
4	*5500.00	102.75 PK			1.00 H	232	92.16	10.59
5	*5500.00	92.08 AV			1.00 H	232	81.49	10.59
6	11000.00	57.76 PK	74.00	-16.24	2.56 H	198	40.27	17.49
7	11000.00	45.88 AV	54.00	-8.12	2.56 H	198	28.39	17.49
8	#16500.00	-	-	-	-	-	-	-
9	#22000.00	-	-	-	-	-	-	-
10	#27500.00	-	-	-	-	-	-	-
11	#33000.00	-	-	-	-	-	-	-
12	#38500.00	-	-	-	-	-	-	-

REMARKS:

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

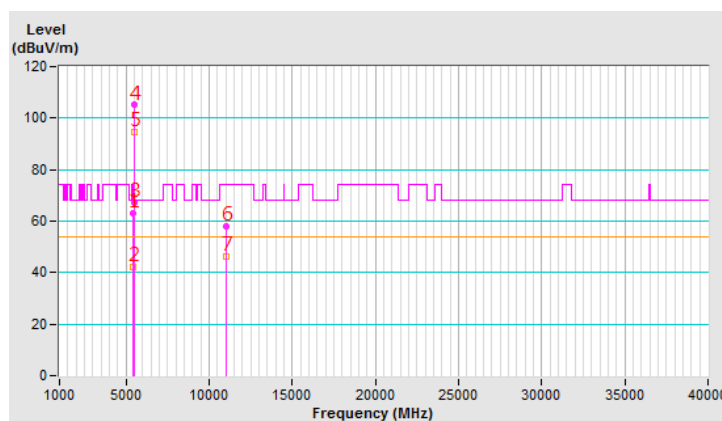


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 100：5500 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.14 PK	74.00	-10.86	1.00 V	132	52.77	10.37
2	5460.00	42.11 AV	54.00	-11.89	1.00 V	132	31.74	10.37
3	#5470.00	66.95 PK	68.20	-1.25	1.00 V	132	56.53	10.42
4	*5500.00	105.07 PK			1.00 V	132	94.48	10.59
5	*5500.00	94.43 AV			1.00 V	132	83.84	10.59
6	11000.00	57.98 PK	74.00	-16.02	3.38 V	126	40.49	17.49
7	11000.00	46.16 AV	54.00	-7.84	3.38 V	126	28.67	17.49
8	#16500.00	-	-	-	-	-	-	-
9	#22000.00	-	-	-	-	-	-	-
10	#27500.00	-	-	-	-	-	-	-
11	#33000.00	-	-	-	-	-	-	-
12	#38500.00	-	-	-	-	-	-	-

REMARKS:

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

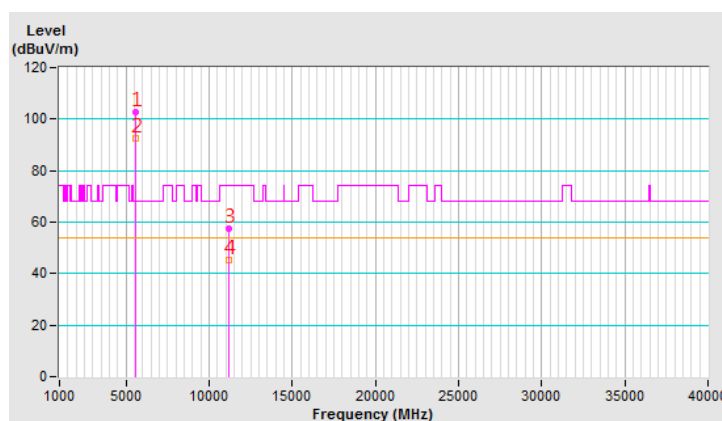


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 116：5580 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	102.90 PK			1.02 H	235	92.73	10.17
2	*5580.00	92.78 AV			1.02 H	235	82.61	10.17
3	11160.00	57.37 PK	74.00	-16.63	2.52 H	194	40.33	17.04
4	11160.00	45.49 AV	54.00	-8.51	2.52 H	194	28.45	17.04
5	#16740.00	-	-	-	-	-	-	-
6	22320.00	-	-	-	-	-	-	-
7	#27900.00	-	-	-	-	-	-	-
8	#33480.00	-	-	-	-	-	-	-
9	39060.00	-	-	-	-	-	-	-

REMARKS:

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

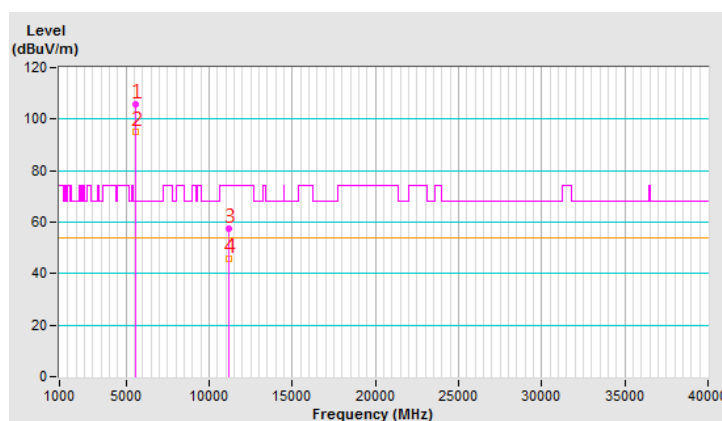


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 116：5580 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	105.61 PK			1.00 V	134	95.44	10.17
2	*5580.00	95.30 AV			1.00 V	134	85.13	10.17
3	11160.00	57.59 PK	74.00	-16.41	3.41 V	114	40.55	17.04
4	11160.00	45.76 AV	54.00	-8.24	3.41 V	114	28.72	17.04
5	#16740.00	-	-	-	-	-	-	-
6	22320.00	-	-	-	-	-	-	-
7	#27900.00	-	-	-	-	-	-	-
8	#33480.00	-	-	-	-	-	-	-
9	39060.00	-	-	-	-	-	-	-

REMARKS:

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

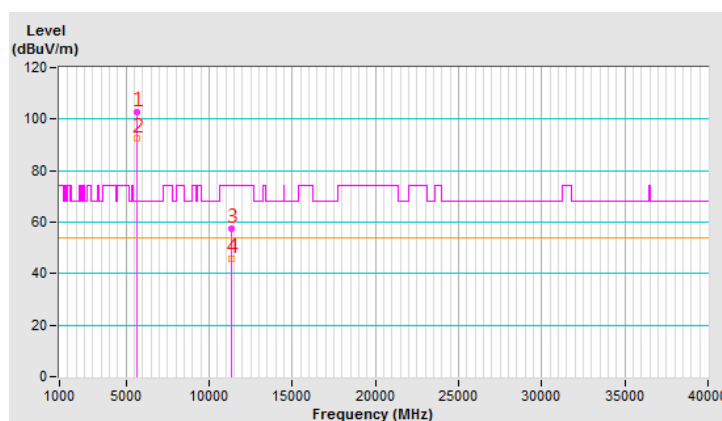


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 132：5660 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5660.00	102.76 PK			1.05 H	233	92.94	9.82
2	*5660.00	92.61 AV			1.05 H	233	82.79	9.82
3	11320.00	57.56 PK	74.00	-16.44	2.53 H	196	40.29	17.27
4	11320.00	45.68 AV	54.00	-8.32	2.53 H	196	28.41	17.27
5	#16980.00	-	-	-	-	-	-	-
6	22640.00	-	-	-	-	-	-	-
7	#28300.00	-	-	-	-	-	-	-
8	#33960.00	-	-	-	-	-	-	-
9	39620.00	-	-	-	-	-	-	-

REMARKS:

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

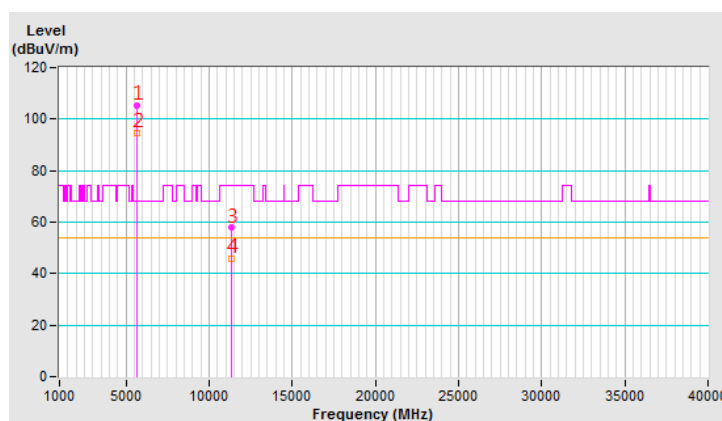


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 132：5660 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5660.00	105.10 PK			1.02 V	135	95.28	9.82
2	*5660.00	94.65 AV			1.02 V	135	84.83	9.82
3	11320.00	57.78 PK	74.00	-16.22	3.37 V	119	40.51	17.27
4	11320.00	45.93 AV	54.00	-8.07	3.37 V	119	28.66	17.27
5	#16980.00	-	-	-	-	-	-	-
6	22640.00	-	-	-	-	-	-	-
7	#28300.00	-	-	-	-	-	-	-
8	#33960.00	-	-	-	-	-	-	-
9	39620.00	-	-	-	-	-	-	-

REMARKS:

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

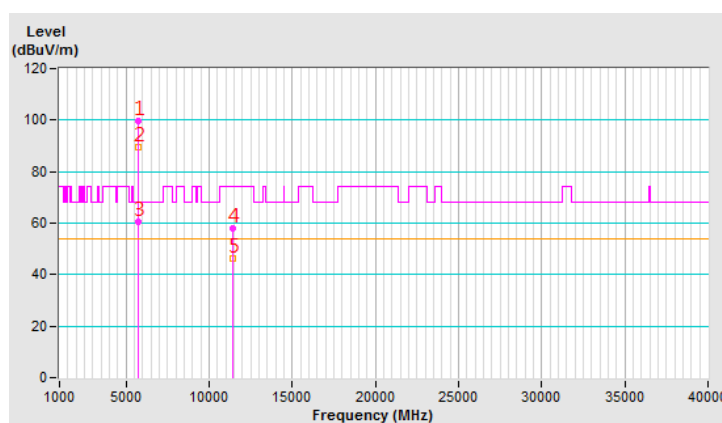


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 140：5700 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	99.67 PK			1.07 H	238	90.05	9.62
2	*5700.00	89.43 AV			1.07 H	238	79.81	9.62
3	#5725.00	60.40 PK	68.20	-7.80	1.07 H	238	50.81	9.59
4	11400.00	58.20 PK	74.00	-15.80	2.57 H	194	40.38	17.82
5	11400.00	46.11 AV	54.00	-7.89	2.57 H	194	28.29	17.82
6	#17100.00	-	-	-	-	-	-	-
7	22800.00	-	-	-	-	-	-	-
8	#28500.00	-	-	-	-	-	-	-
9	#34200.00	-	-	-	-	-	-	-
10	39900.00	-	-	-	-	-	-	-

REMARKS:

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

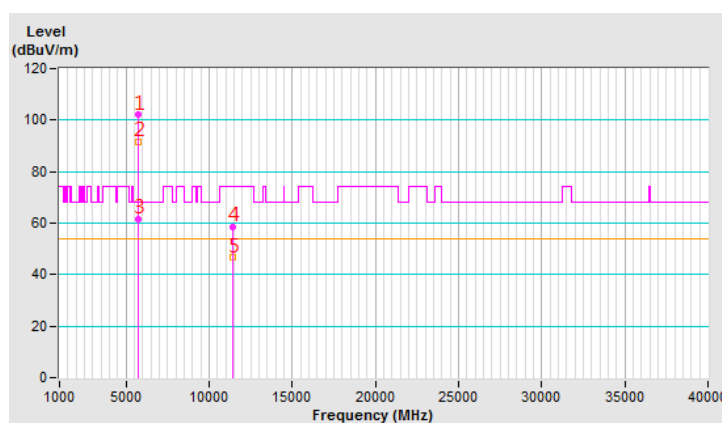


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 140：5700 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	101.99 PK			1.01 V	131	92.37	9.62
2	*5700.00	91.68 AV			1.01 V	131	82.06	9.62
3	#5725.00	61.76 PK	68.20	-6.44	1.01 V	131	52.17	9.59
4	11400.00	58.43 PK	74.00	-15.57	3.39 V	121	40.61	17.82
5	11400.00	46.56 AV	54.00	-7.44	3.39 V	121	28.74	17.82
6	#17100.00	-	-	-	-	-	-	-
7	22800.00	-	-	-	-	-	-	-
8	#28500.00	-	-	-	-	-	-	-
9	#34200.00	-	-	-	-	-	-	-
10	39900.00	-	-	-	-	-	-	-

REMARKS:

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

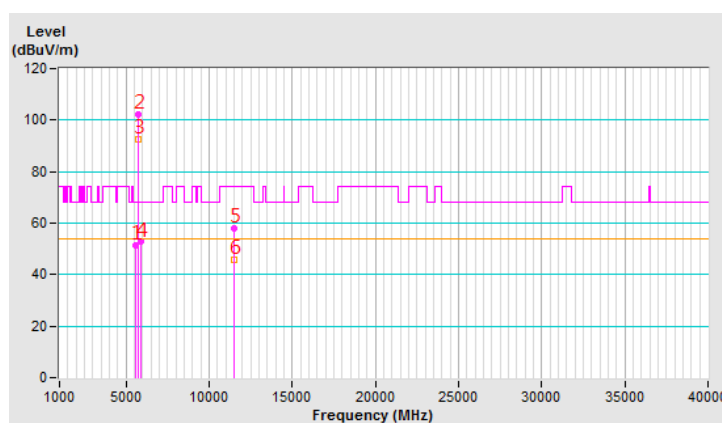


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5552.85	51.53 PK	68.20	-16.67	1.02 H	211	41.22	10.31
2	*5745.00	102.18 PK			1.02 H	211	92.61	9.57
3	*5745.00	92.45 AV			1.02 H	211	82.88	9.57
4	#5931.43	52.63 PK	68.20	-15.57	1.02 H	211	42.85	9.78
5	11490.00	57.92 PK	74.00	-16.08	2.74 H	176	40.21	17.71
6	11490.00	45.88 AV	54.00	-8.12	2.74 H	176	28.17	17.71
7	#17235.00	-	-	-	-	-	-	-
8	22980.00	-	-	-	-	-	-	-
9	#28725.00	-	-	-	-	-	-	-
10	#34470.00	-	-	-	-	-	-	-

REMARKS:

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

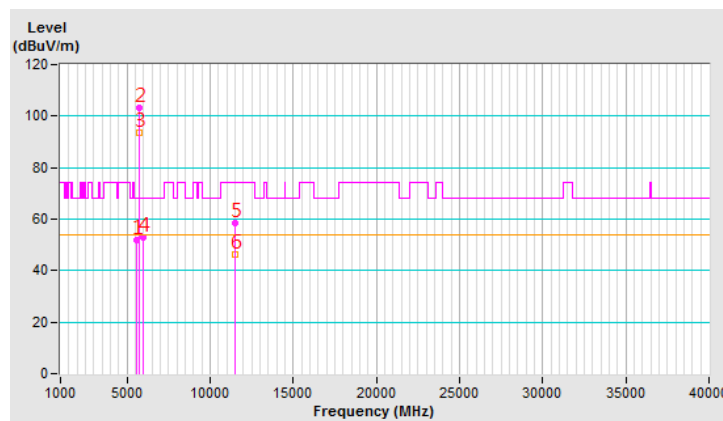


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5582.77	51.79 PK	68.20	-16.41	1.03 V	127	41.64	10.15
2	*5745.00	103.46 PK			1.03 V	127	93.89	9.57
3	*5745.00	93.78 AV			1.03 V	127	84.21	9.57
4	#5999.35	52.73 PK	68.20	-15.47	1.03 V	127	42.82	9.91
5	11490.00	58.38 PK	74.00	-15.62	3.52 V	108	40.67	17.71
6	11490.00	46.24 AV	54.00	-7.76	3.52 V	108	28.53	17.71
7	#17235.00	-	-	-	-	-	-	-
8	22980.00	-	-	-	-	-	-	-
9	#28725.00	-	-	-	-	-	-	-
10	#34470.00	-	-	-	-	-	-	-

REMARKS:

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

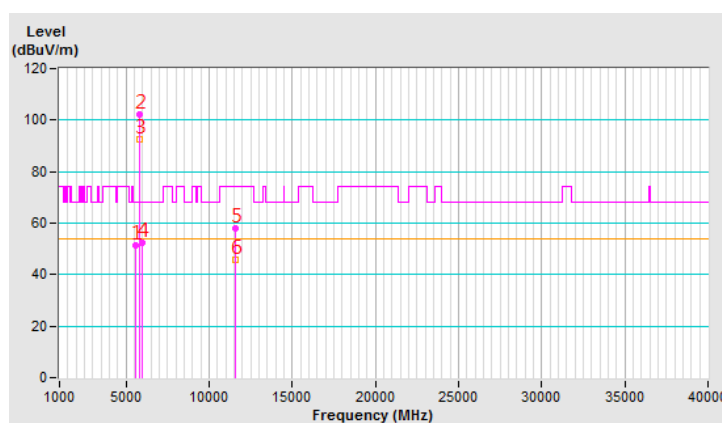


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157：5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5592.75	51.46 PK	68.20	-16.74	1.01 H	213	41.35	10.11
2	*5785.00	102.29 PK			1.01 H	213	92.74	9.55
3	*5785.00	92.51 AV			1.01 H	213	82.96	9.55
4	#5947.10	52.38 PK	68.20	-15.82	1.01 H	213	42.56	9.82
5	11570.00	57.94 PK	74.00	-16.06	2.71 H	180	40.12	17.82
6	11570.00	45.79 AV	54.00	-8.21	2.71 H	180	27.97	17.82
7	#17355.00	-	-	-	-	-	-	-
8	#23140.00	-	-	-	-	-	-	-
9	#28925.00	-	-	-	-	-	-	-
10	#34710.00	-	-	-	-	-	-	-

REMARKS:

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



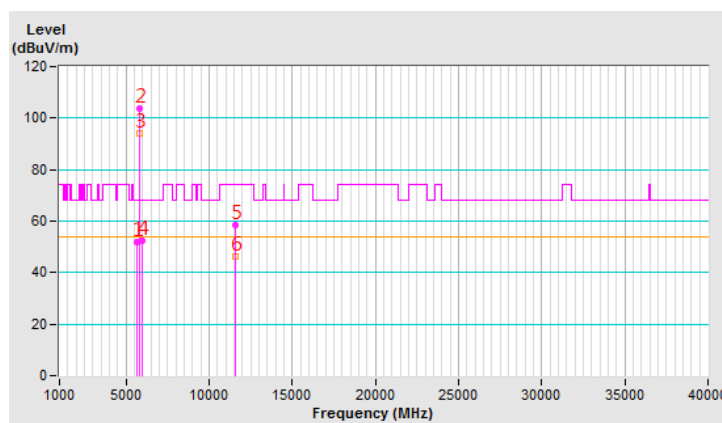
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157：5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5619.35	52.08 PK	68.20	-16.12	1.04 V	129	42.08	10.00
2	*5785.00	103.61 PK			1.04 V	129	94.06	9.55
3	*5785.00	93.95 AV			1.04 V	129	84.40	9.55
4	#5973.70	52.54 PK	68.20	-15.66	1.04 V	129	42.68	9.86
5	11570.00	58.45 PK	74.00	-15.55	3.48 V	103	40.63	17.82
6	11570.00	46.37 AV	54.00	-7.63	3.48 V	103	28.55	17.82
7	#17355.00	-	-	-	-	-	-	-
8	#23140.00	-	-	-	-	-	-	-
9	#28925.00	-	-	-	-	-	-	-
10	#34710.00	-	-	-	-	-	-	-

REMARKS:

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

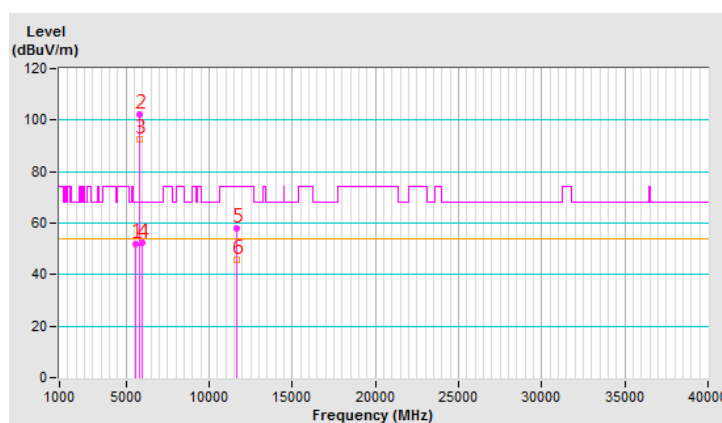


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5576.12	51.86 PK	68.20	-16.34	1.06 H	217	41.67	10.19
2	*5825.00	102.34 PK			1.06 H	217	92.74	9.60
3	*5825.00	92.61 AV			1.06 H	217	83.01	9.60
4	#5974.18	52.14 PK	68.20	-16.06	1.06 H	217	42.28	9.86
5	11650.00	57.98 PK	74.00	-16.02	2.73 H	177	40.03	17.95
6	11650.00	45.82 AV	54.00	-8.18	2.73 H	177	27.87	17.95
7	#17475.00	-	-	-	-	-	-	-
8	#23300.00	-	-	-	-	-	-	-
9	#29125.00	-	-	-	-	-	-	-
10	#34950.00	-	-	-	-	-	-	-

REMARKS:

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

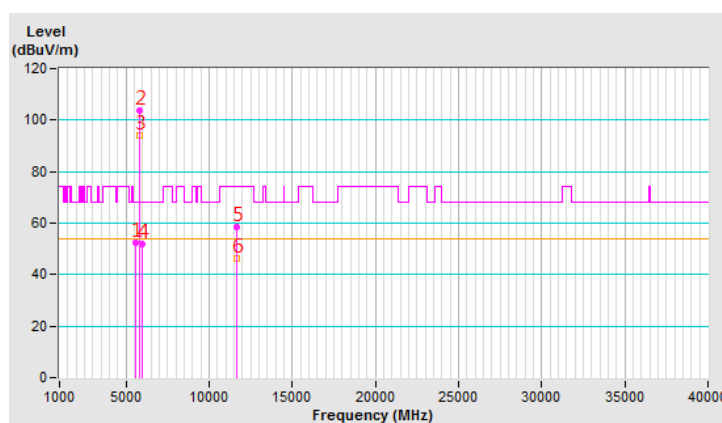


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=510Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5596.07	52.38 PK	68.20	-15.82	1.02 V	128	42.29	10.09
2	*5825.00	103.92 PK			1.02 V	128	94.32	9.60
3	*5825.00	94.18 AV			1.02 V	128	84.58	9.60
4	#5956.12	52.08 PK	68.20	-16.12	1.02 V	128	42.26	9.82
5	11650.00	58.37 PK	74.00	-15.63	3.50 V	101	40.42	17.95
6	11650.00	46.29 AV	54.00	-7.71	3.50 V	101	28.34	17.95
7	#17475.00	-	-	-	-	-	-	-
8	#23300.00	-	-	-	-	-	-	-
9	#29125.00	-	-	-	-	-	-	-
10	#34950.00	-	-	-	-	-	-	-

REMARKS:

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



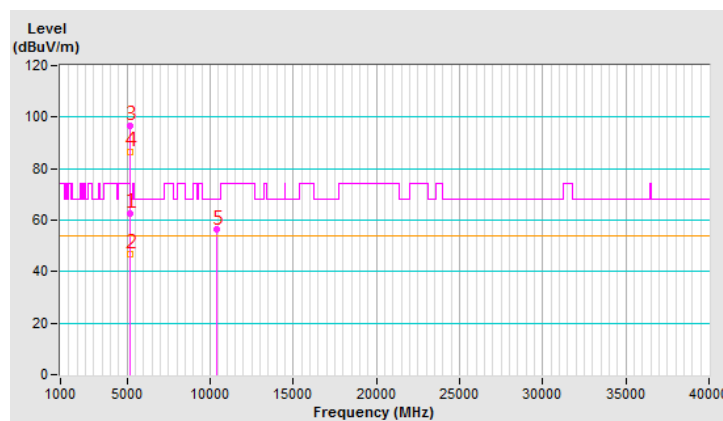
802.11ac (20MHz)

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24℃	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.70 PK	74.00	-11.30	1.46 H	135	53.78	8.92
2	5150.00	47.03 AV	54.00	-6.97	1.46 H	135	38.11	8.92
3	*5180.00	96.56 PK			1.46 H	135	87.55	9.01
4	*5180.00	86.35 AV			1.46 H	135	77.34	9.01
5	#10360.00	56.20 PK	68.20	-12.00	2.67 H	178	40.22	15.98
6	15540.00	-	-	-	-	-	-	-
7	20720.00	-	-	-	-	-	-	-
8	#25900.00	-	-	-	-	-	-	-
9	#31080.00	-	-	-	-	-	-	-
10	#36260.00	-	-	-	-	-	-	-

REMARKS:

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

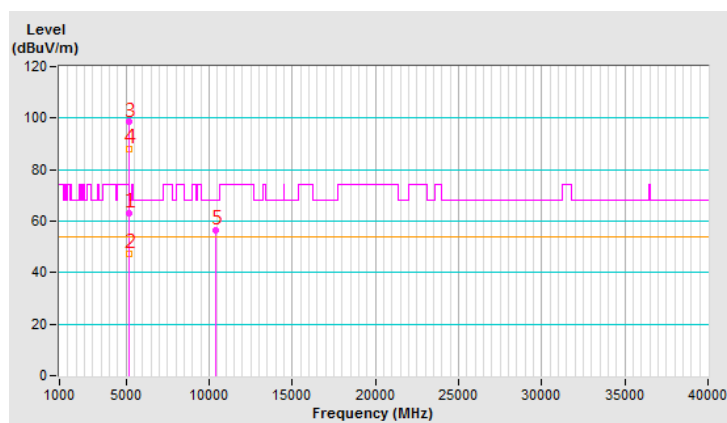


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.07 PK	74.00	-10.93	2.41 V	175	54.15	8.92
2	5150.00	47.39 AV	54.00	-6.61	2.41 V	175	38.47	8.92
3	*5180.00	98.39 PK			2.41 V	175	89.38	9.01
4	*5180.00	88.17 AV			2.41 V	175	79.16	9.01
5	#10360.00	56.44 PK	68.20	-11.76	3.63 V	108	40.46	15.98
6	15540.00	-	-	-	-	-	-	-
7	20720.00	-	-	-	-	-	-	-
8	#25900.00	-	-	-	-	-	-	-
9	#31080.00	-	-	-	-	-	-	-
10	#36260.00	-	-	-	-	-	-	-

REMARKS:

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

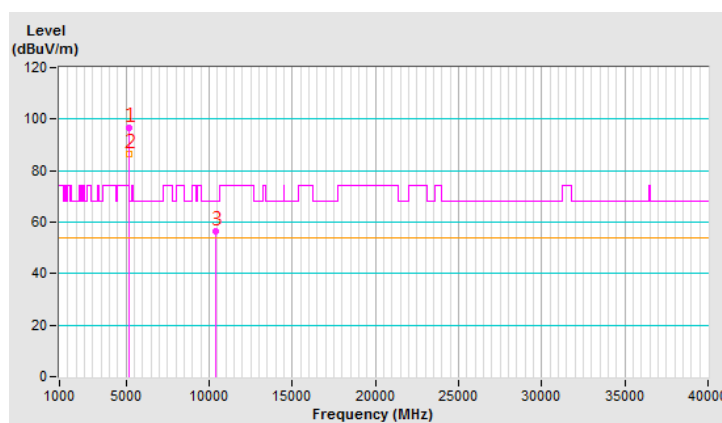


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	96.86 PK			1.47 H	131	87.81	9.05
2	*5200.00	86.65 AV			1.47 H	131	77.60	9.05
3	#10400.00	56.31 PK	68.20	-11.89	2.70 H	175	40.18	16.13
4	15600.00	-	-	-	-	-	-	-
5	20800.00	-	-	-	-	-	-	-
6	#26000.00	-	-	-	-	-	-	-
7	31200.00	-	-	-	-	-	-	-
8	#36400.00	-	-	-	-	-	-	-

REMARKS:

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

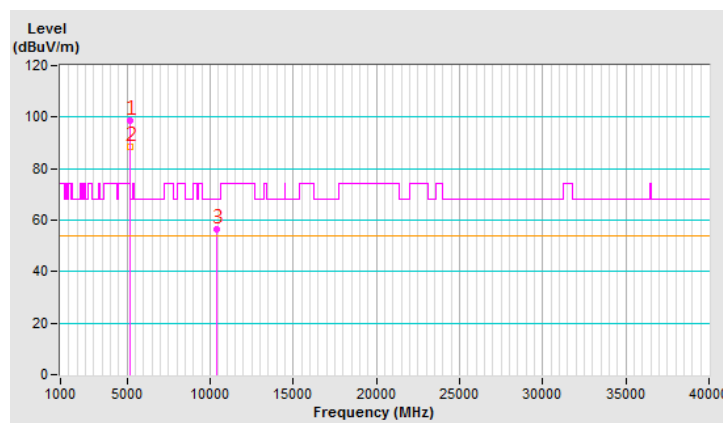


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	98.59 PK			2.44 V	177	89.54	9.05
2	*5200.00	88.34 AV			2.44 V	177	79.29	9.05
3	#10400.00	56.68 PK	68.20	-11.52	3.68 V	101	40.55	16.13
4	15600.00	-	-	-	-	-	-	-
5	20800.00	-	-	-	-	-	-	-
6	#26000.00	-	-	-	-	-	-	-
7	31200.00	-	-	-	-	-	-	-
8	#36400.00	-	-	-	-	-	-	-

REMARKS:

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

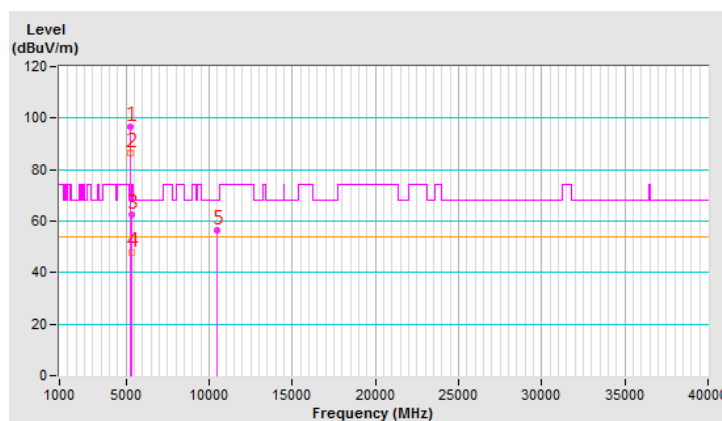


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	96.85 PK			1.49 H	130	87.60	9.25
2	*5240.00	86.64 AV			1.49 H	130	77.39	9.25
3	5350.00	62.50 PK	74.00	-11.50	1.49 H	130	52.66	9.84
4	5350.00	47.88 AV	54.00	-6.12	1.49 H	130	38.04	9.84
5	#10480.00	56.64 PK	68.20	-11.56	2.65 H	180	40.23	16.41
6	15720.00	-	-	-	-	-	-	-
7	20960.00	-	-	-	-	-	-	-
8	#26200.00	-	-	-	-	-	-	-
9	31440.00	-	-	-	-	-	-	-
10	#36680.00	-	-	-	-	-	-	-

REMARKS:

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

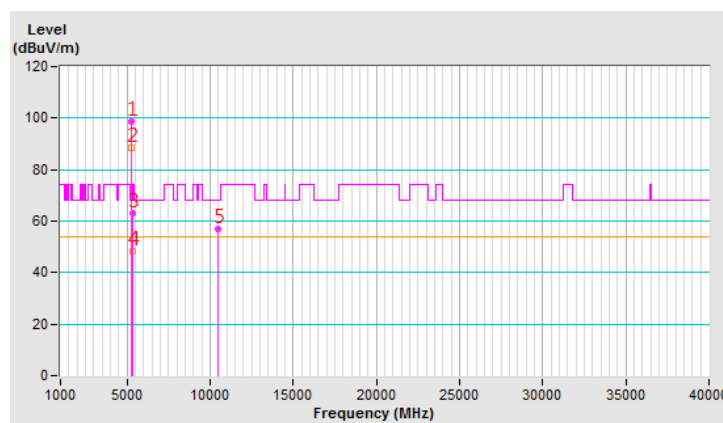


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	98.61 PK			2.40 V	172	89.36	9.25
2	*5240.00	88.38 AV			2.40 V	172	79.13	9.25
3	5350.00	62.95 PK	74.00	-11.05	2.40 V	172	53.11	9.84
4	5350.00	48.21 AV	54.00	-5.79	2.40 V	172	38.37	9.84
5	#10480.00	56.90 PK	68.20	-11.30	3.65 V	96	40.49	16.41
6	15720.00	-	-	-	-	-	-	-
7	20960.00	-	-	-	-	-	-	-
8	#26200.00	-	-	-	-	-	-	-
9	31440.00	-	-	-	-	-	-	-
10	#36680.00	-	-	-	-	-	-	-

REMARKS:

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

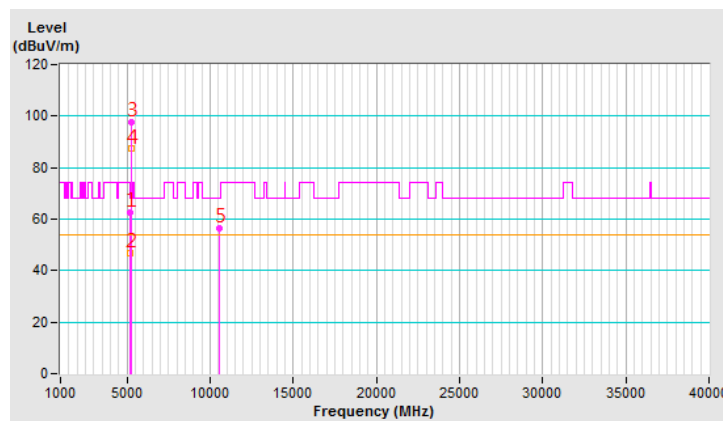


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 52：5260 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.39 PK	74.00	-11.61	1.47 H	135	53.47	8.92
2	5150.00	46.81 AV	54.00	-7.19	1.47 H	135	37.89	8.92
3	*5260.00	97.49 PK			1.47 H	135	88.15	9.34
4	*5260.00	87.27 AV			1.47 H	135	77.93	9.34
5	#10520.00	56.64 PK	68.20	-11.56	2.59 H	174	40.15	16.49
6	15780.00	-	-	-	-	-	-	-
7	21040.00	-	-	-	-	-	-	-
8	#26300.00	-	-	-	-	-	-	-
9	31560.00	-	-	-	-	-	-	-
10	#36820.00	-	-	-	-	-	-	-

REMARKS:

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

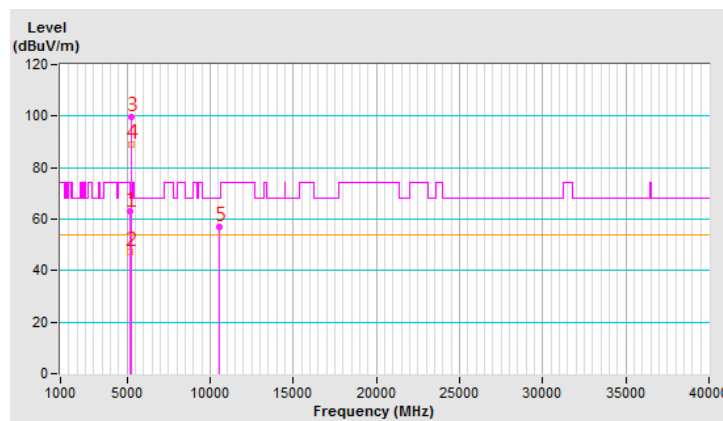


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 52：5260 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.82 PK	74.00	-11.18	1.17 V	21	53.90	8.92
2	5150.00	47.24 AV	54.00	-6.76	1.17 V	21	38.32	8.92
3	*5260.00	99.57 PK			1.17 V	21	90.23	9.34
4	*5260.00	89.19 AV			1.17 V	21	79.85	9.34
5	#10520.00	56.92 PK	68.20	-11.28	3.57 V	105	40.43	16.49
6	15780.00	-	-	-	-	-	-	-
7	21040.00	-	-	-	-	-	-	-
8	#26300.00	-	-	-	-	-	-	-
9	31560.00	-	-	-	-	-	-	-
10	#36820.00	-	-	-	-	-	-	-

REMARKS:

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

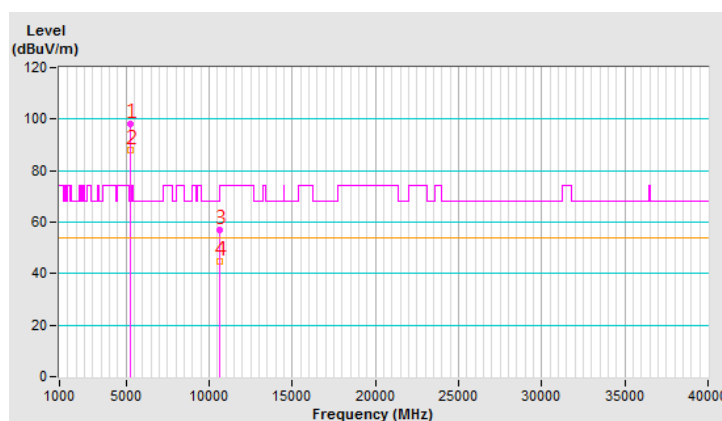


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 60：5300 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	98.27 PK			1.48 H	132	88.69	9.58
2	*5300.00	87.92 AV			1.48 H	132	78.34	9.58
3	10600.00	56.78 PK	74.00	-17.22	2.61 H	178	40.25	16.53
4	10600.00	44.62 AV	54.00	-9.38	2.61 H	178	28.09	16.53
5	15900.00	-	-	-	-	-	-	-
6	21200.00	-	-	-	-	-	-	-
7	#26500.00	-	-	-	-	-	-	-
8	31800.00	-	-	-	-	-	-	-
9	#37100.00	-	-	-	-	-	-	-

REMARKS:

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

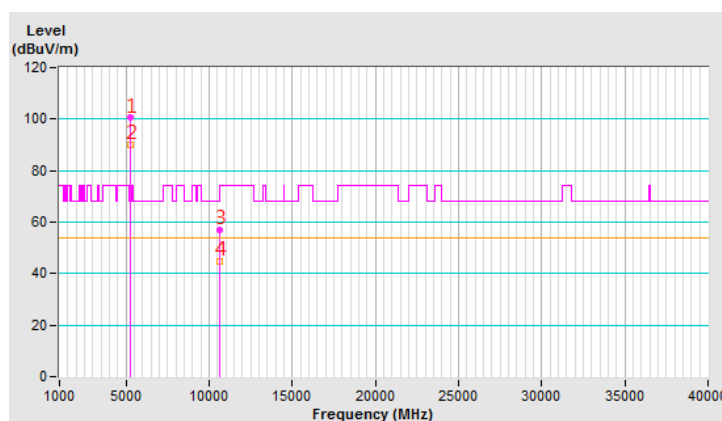


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 60：5300 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	100.47 PK			1.20 V	20	90.89	9.58
2	*5300.00	90.22 AV			1.20 V	20	80.64	9.58
3	10600.00	56.96 PK	74.00	-17.04	3.62 V	98	40.43	16.53
4	10600.00	44.98 AV	54.00	-9.02	3.62 V	98	28.45	16.53
5	15900.00	-	-	-	-	-	-	-
6	21200.00	-	-	-	-	-	-	-
7	#26500.00	-	-	-	-	-	-	-
8	31800.00	-	-	-	-	-	-	-
9	#37100.00	-	-	-	-	-	-	-

REMARKS:

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

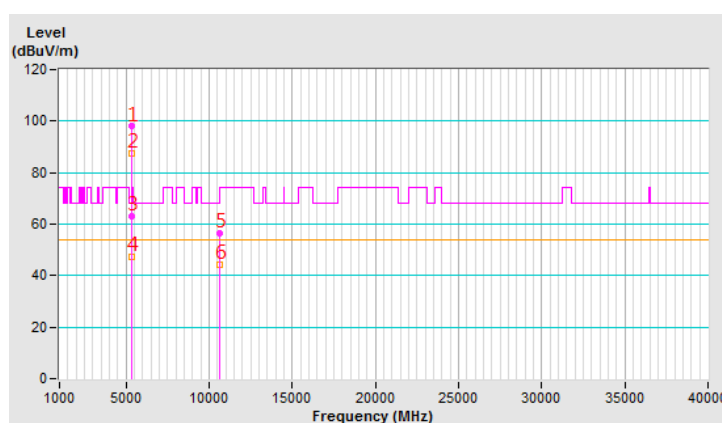


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 64：5320 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	97.95 PK			1.51 H	129	88.27	9.68
2	*5320.00	87.70 AV			1.51 H	129	78.02	9.68
3	5350.00	63.15 PK	74.00	-10.85	1.51 H	129	53.31	9.84
4	5350.00	47.24 AV	54.00	-6.76	1.51 H	129	37.40	9.84
5	10640.00	56.64 PK	74.00	-17.36	2.58 H	176	40.19	16.45
6	10640.00	44.49 AV	54.00	-9.51	2.58 H	176	28.04	16.45
7	15960.00	-	-	-	-	-	-	-
8	21280.00	-	-	-	-	-	-	-
9	#26600.00	-	-	-	-	-	-	-
10	#31920.00	-	-	-	-	-	-	-
11	#37240.00	-	-	-	-	-	-	-

REMARKS:

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

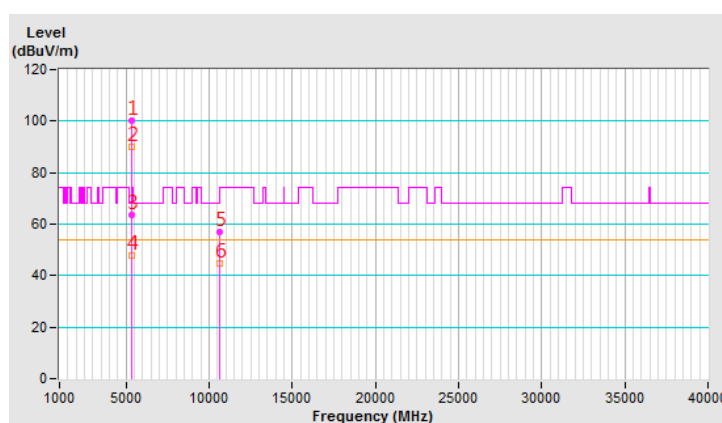


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 64：5320 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	100.19 PK			1.19 V	22	90.51	9.68
2	*5320.00	90.01 AV			1.19 V	22	80.33	9.68
3	5350.00	63.55 PK	74.00	-10.45	1.19 V	22	53.71	9.84
4	5350.00	47.63 AV	54.00	-6.37	1.19 V	22	37.79	9.84
5	10640.00	56.81 PK	74.00	-17.19	3.55 V	106	40.36	16.45
6	10640.00	44.86 AV	54.00	-9.14	3.55 V	106	28.41	16.45
7	15960.00	-	-	-	-	-	-	-
8	21280.00	-	-	-	-	-	-	-
9	#26600.00	-	-	-	-	-	-	-
10	#31920.00	-	-	-	-	-	-	-
11	#37240.00	-	-	-	-	-	-	-

REMARKS:

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

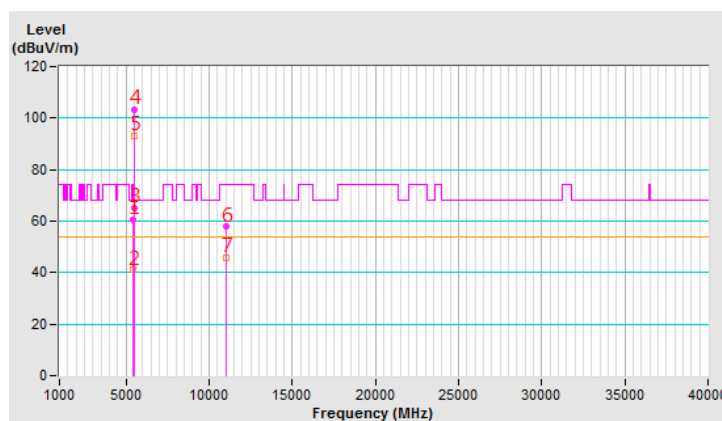


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 100：5500 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.76 PK	74.00	-13.24	1.06 H	231	50.39	10.37
2	5460.00	40.97 AV	54.00	-13.03	1.06 H	231	30.60	10.37
3	#5470.00	65.05 PK	68.20	-3.15	1.06 H	231	54.63	10.42
4	*5500.00	103.10 PK			1.06 H	231	92.51	10.59
5	*5500.00	93.07 AV			1.06 H	231	82.48	10.59
6	11000.00	57.79 PK	74.00	-16.21	2.53 H	190	40.30	17.49
7	11000.00	45.77 AV	54.00	-8.23	2.53 H	190	28.28	17.49
8	#16500.00	-	-	-	-	-	-	-
9	#22000.00	-	-	-	-	-	-	-
10	#27500.00	-	-	-	-	-	-	-
11	#33000.00	-	-	-	-	-	-	-
12	#38500.00	-	-	-	-	-	-	-

REMARKS:

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

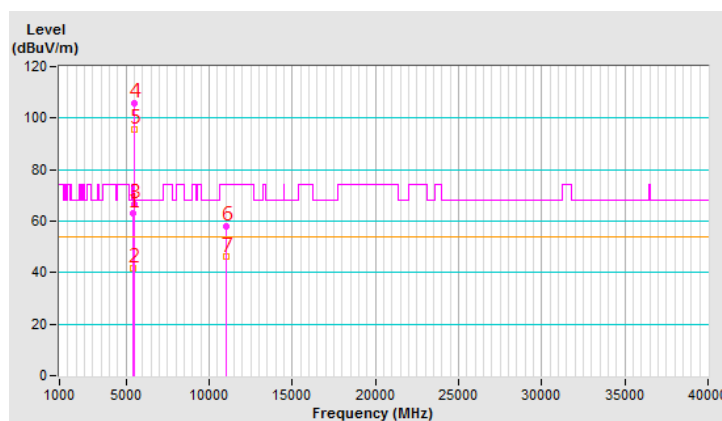


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 100：5500 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.16 PK	74.00	-10.84	1.00 V	133	52.79	10.37
2	5460.00	41.88 AV	54.00	-12.12	1.00 V	133	31.51	10.37
3	#5470.00	66.73 PK	68.20	-1.47	1.00 V	133	56.31	10.42
4	*5500.00	105.65 PK			1.00 V	133	95.06	10.59
5	*5500.00	95.65 AV			1.00 V	133	85.06	10.59
6	11000.00	58.01 PK	74.00	-15.99	3.29 V	114	40.52	17.49
7	11000.00	46.09 AV	54.00	-7.91	3.29 V	114	28.60	17.49
8	#16500.00	-	-	-	-	-	-	-
9	#22000.00	-	-	-	-	-	-	-
10	#27500.00	-	-	-	-	-	-	-
11	#33000.00	-	-	-	-	-	-	-
12	#38500.00	-	-	-	-	-	-	-

REMARKS:

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

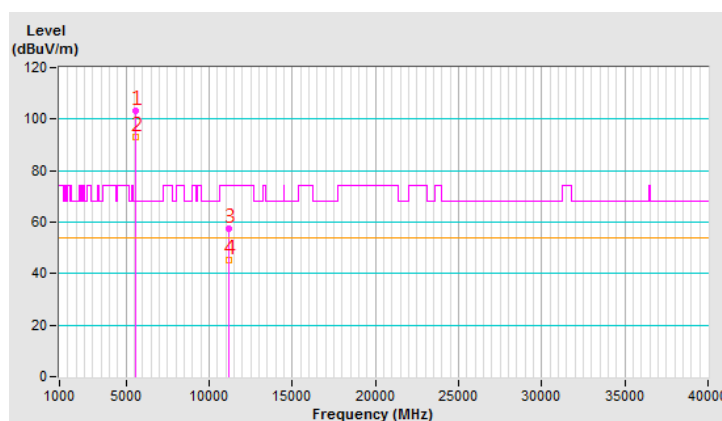


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 116：5580 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	103.06 PK			1.03 H	232	92.89	10.17
2	*5580.00	92.94 AV			1.03 H	232	82.77	10.17
3	11160.00	57.33 PK	74.00	-16.67	2.55 H	187	40.29	17.04
4	11160.00	45.37 AV	54.00	-8.63	2.55 H	187	28.33	17.04
5	#16740.00	-	-	-	-	-	-	-
6	22320.00	-	-	-	-	-	-	-
7	#27900.00	-	-	-	-	-	-	-
8	#33480.00	-	-	-	-	-	-	-
9	39060.00	-	-	-	-	-	-	-

REMARKS:

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

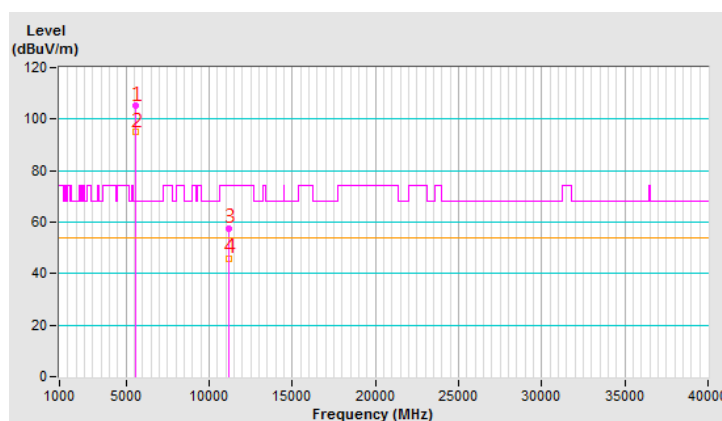


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 116：5580 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	105.02 PK			1.01 V	134	94.85	10.17
2	*5580.00	94.89 AV			1.01 V	134	84.72	10.17
3	11160.00	57.60 PK	74.00	-16.40	3.31 V	109	40.56	17.04
4	11160.00	45.62 AV	54.00	-8.38	3.31 V	109	28.58	17.04
5	#16740.00	-	-	-	-	-	-	-
6	22320.00	-	-	-	-	-	-	-
7	#27900.00	-	-	-	-	-	-	-
8	#33480.00	-	-	-	-	-	-	-
9	39060.00	-	-	-	-	-	-	-

REMARKS:

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

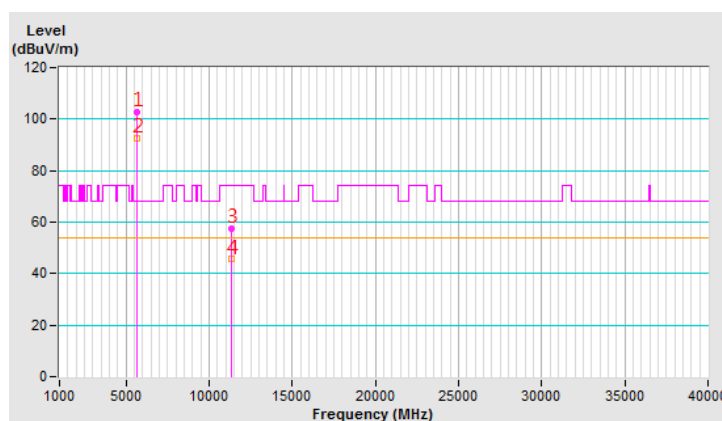


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 132：5660 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5660.00	102.63 PK			1.04 H	234	92.81	9.82
2	*5660.00	92.55 AV			1.04 H	234	82.73	9.82
3	11320.00	57.50 PK	74.00	-16.50	2.51 H	189	40.23	17.27
4	11320.00	45.56 AV	54.00	-8.44	2.51 H	189	28.29	17.27
5	#16980.00	-	-	-	-	-	-	-
6	22640.00	-	-	-	-	-	-	-
7	#28300.00	-	-	-	-	-	-	-
8	#33960.00	-	-	-	-	-	-	-
9	39620.00	-	-	-	-	-	-	-

REMARKS:

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

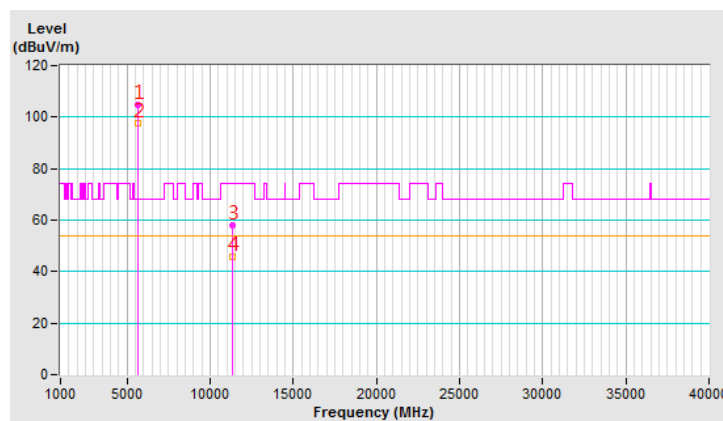


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 132：5660 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5660.00	104.89 PK			1.00 V	130	95.07	9.82
2	*5660.00	97.75 AV			1.00 V	130	87.93	9.82
3	11320.00	57.90 PK	74.00	-16.10	3.33 V	105	40.63	17.27
4	11320.00	45.91 AV	54.00	-8.09	3.33 V	105	28.64	17.27
5	#16980.00	-	-	-	-	-	-	-
6	22640.00	-	-	-	-	-	-	-
7	#28300.00	-	-	-	-	-	-	-
8	#33960.00	-	-	-	-	-	-	-
9	39620.00	-	-	-	-	-	-	-

REMARKS:

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

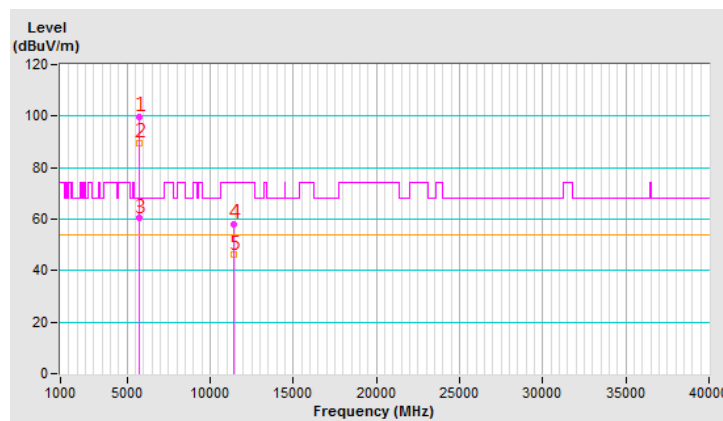


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 140：5700 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	99.66 PK			1.06 H	231	90.04	9.62
2	*5700.00	89.54 AV			1.06 H	231	79.92	9.62
3	#5725.00	60.26 PK	68.20	-7.94	1.06 H	231	50.67	9.59
4	11400.00	58.07 PK	74.00	-15.93	2.56 H	185	40.25	17.82
5	11400.00	46.05 AV	54.00	-7.95	2.56 H	185	28.23	17.82
6	#17100.00	-	-	-	-	-	-	-
7	22800.00	-	-	-	-	-	-	-
8	#28500.00	-	-	-	-	-	-	-
9	#34200.00	-	-	-	-	-	-	-
10	39900.00	-	-	-	-	-	-	-

REMARKS:

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

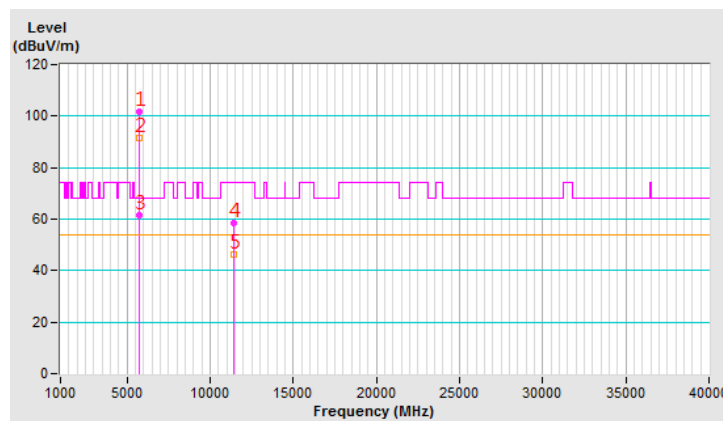


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 140：5700 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	101.91 PK			1.02 V	136	92.29	9.62
2	*5700.00	91.73 AV			1.02 V	136	82.11	9.62
3	#5725.00	61.62 PK	68.20	-6.58	1.02 V	136	52.03	9.59
4	11400.00	58.36 PK	74.00	-15.64	3.30 V	102	40.54	17.82
5	11400.00	46.43 AV	54.00	-7.57	3.30 V	102	28.61	17.82
6	#17100.00	-	-	-	-	-	-	-
7	22800.00	-	-	-	-	-	-	-
8	#28500.00	-	-	-	-	-	-	-
9	#34200.00	-	-	-	-	-	-	-
10	39900.00	-	-	-	-	-	-	-

REMARKS:

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

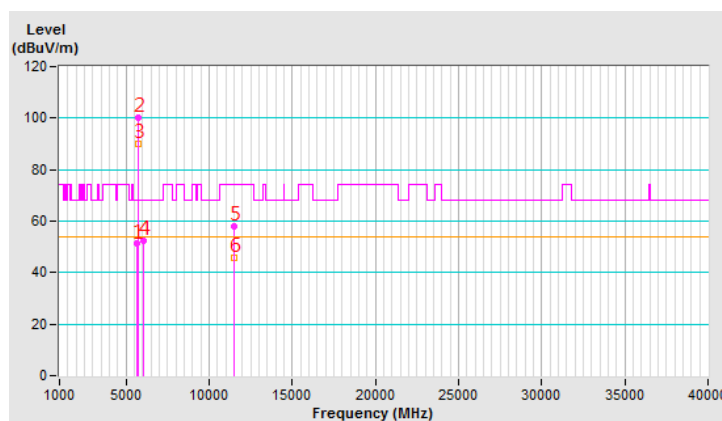


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.65	51.18 PK	68.20	-17.02	1.01 H	215	41.23	9.95
2	*5745.00	100.04 PK			1.01 H	215	90.47	9.57
3	*5745.00	90.08 AV			1.01 H	215	80.51	9.57
4	#6013.60	52.37 PK	68.20	-15.83	1.01 H	215	42.40	9.97
5	11490.00	57.88 PK	74.00	-16.12	2.78 H	185	40.17	17.71
6	11490.00	45.76 AV	54.00	-8.24	2.78 H	185	28.05	17.71
7	#17235.00	-	-	-	-	-	-	-
8	22980.00	-	-	-	-	-	-	-
9	#28725.00	-	-	-	-	-	-	-
10	#34470.00	-	-	-	-	-	-	-

REMARKS:

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

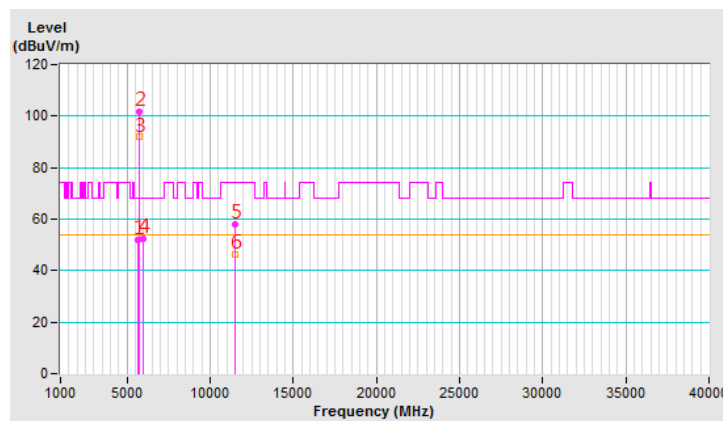


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5646.90	51.73 PK	68.20	-16.47	1.03 V	125	41.84	9.89
2	*5745.00	101.73 PK			1.03 V	125	92.16	9.57
3	*5745.00	91.81 AV			1.03 V	125	82.24	9.57
4	#5956.60	52.37 PK	68.20	-15.83	1.03 V	125	42.54	9.83
5	11490.00	58.22 PK	74.00	-15.78	3.55 V	104	40.51	17.71
6	11490.00	46.19 AV	54.00	-7.81	3.55 V	104	28.48	17.71
7	#17235.00	-	-	-	-	-	-	-
8	22980.00	-	-	-	-	-	-	-
9	#28725.00	-	-	-	-	-	-	-
10	#34470.00	-	-	-	-	-	-	-

REMARKS:

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

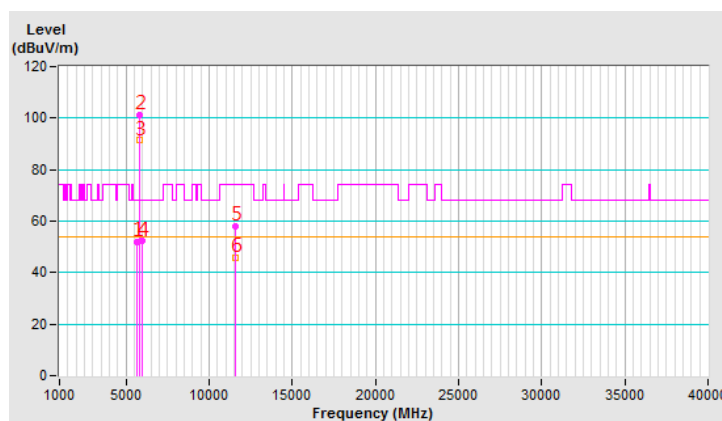


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157：5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5635.50	51.92 PK	68.20	-16.28	1.00 H	212	41.98	9.94
2	*5785.00	101.14 PK			1.00 H	212	91.59	9.55
3	*5785.00	91.28 AV			1.00 H	212	81.73	9.55
4	#5994.12	52.20 PK	68.20	-16.00	1.00 H	212	42.30	9.90
5	11570.00	57.94 PK	74.00	-16.06	2.75 H	179	40.12	17.82
6	11570.00	45.81 AV	54.00	-8.19	2.75 H	179	27.99	17.82
7	#17355.00	-	-	-	-	-	-	-
8	#23140.00	-	-	-	-	-	-	-
9	#28925.00	-	-	-	-	-	-	-
10	#34710.00	-	-	-	-	-	-	-

REMARKS:

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

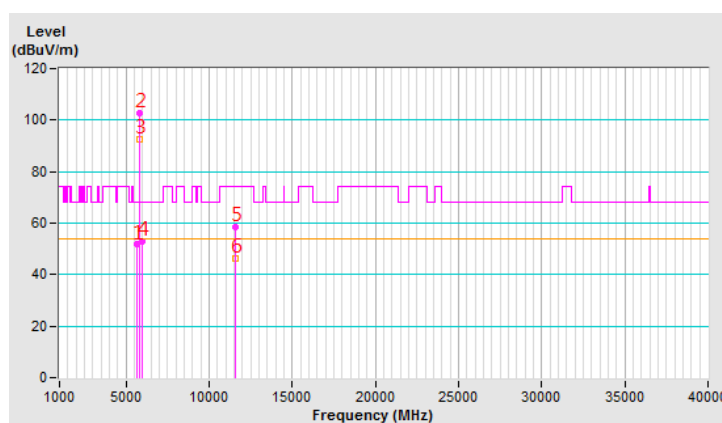


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157：5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5637.87	51.68 PK	68.20	-16.52	1.02 V	128	41.75	9.93
2	*5785.00	102.67 PK			1.02 V	128	93.12	9.55
3	*5785.00	92.75 AV			1.02 V	128	83.20	9.55
4	#5993.65	52.76 PK	68.20	-15.44	1.02 V	128	42.87	9.89
5	11570.00	58.41 PK	74.00	-15.59	3.49 V	99	40.59	17.82
6	11570.00	46.30 AV	54.00	-7.70	3.49 V	99	28.48	17.82
7	#17355.00	-	-	-	-	-	-	-
8	#23140.00	-	-	-	-	-	-	-
9	#28925.00	-	-	-	-	-	-	-
10	#34710.00	-	-	-	-	-	-	-

REMARKS:

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

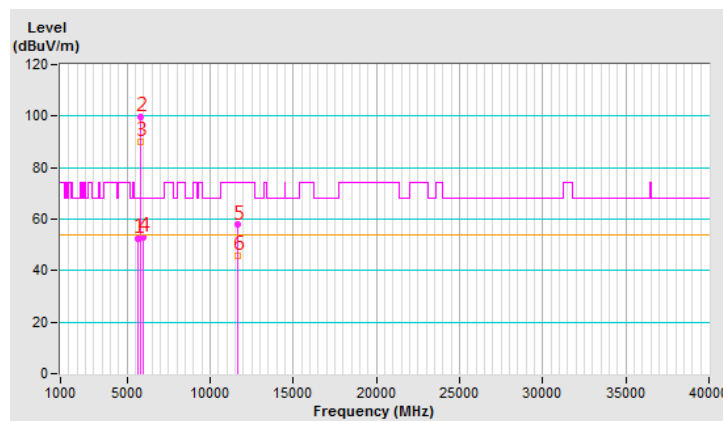


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5625.05	52.31 PK	68.20	-15.89	1.01 H	218	42.34	9.97
2	*5825.00	99.88 PK			1.01 H	218	90.28	9.60
3	*5825.00	89.94 AV			1.01 H	218	80.34	9.60
4	#5946.15	53.01 PK	68.20	-15.19	1.01 H	218	43.20	9.81
5	11650.00	57.72 PK	74.00	-16.28	2.71 H	182	39.77	17.95
6	11650.00	45.63 AV	54.00	-8.37	2.71 H	182	27.68	17.95
7	#17475.00	-	-	-	-	-	-	-
8	#23300.00	-	-	-	-	-	-	-
9	#29125.00	-	-	-	-	-	-	-
10	#34950.00	-	-	-	-	-	-	-

REMARKS:

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

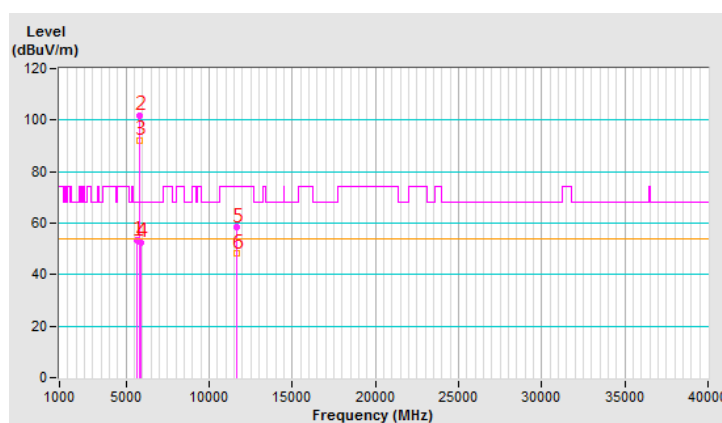


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.37	53.14 PK	68.20	-15.06	1.03 V	126	43.18	9.96
2	*5825.00	101.94 PK			1.03 V	126	92.34	9.60
3	*5825.00	91.88 AV			1.03 V	126	82.28	9.60
4	#5932.85	52.56 PK	68.20	-15.64	1.03 V	126	42.78	9.78
5	11650.00	58.25 PK	74.00	-15.75	3.46 V	103	40.30	17.95
6	11650.00	48.07 AV	54.00	-5.93	3.46 V	103	30.12	17.95
7	#17475.00	-	-	-	-	-	-	-
8	#23300.00	-	-	-	-	-	-	-
9	#29125.00	-	-	-	-	-	-	-
10	#34950.00	-	-	-	-	-	-	-

REMARKS:

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



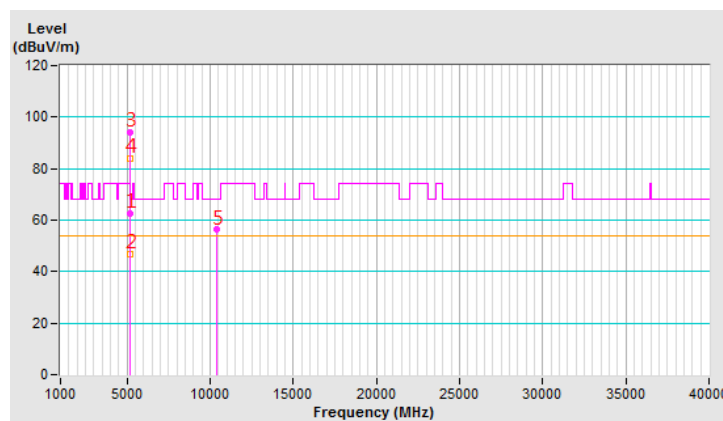
802.11ac (40MHz)

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 38 : 5190 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.76 PK	74.00	-11.24	1.52 H	131	53.84	8.92
2	5150.00	46.98 AV	54.00	-7.02	1.52 H	131	38.06	8.92
3	*5190.00	94.10 PK			1.52 H	131	85.08	9.02
4	*5190.00	84.05 AV			1.52 H	131	75.03	9.02
5	#10380.00	56.24 PK	68.20	-11.96	2.63 H	179	40.19	16.05
6	15570.00	-	-	-	-	-	-	-
7	20760.00	-	-	-	-	-	-	-
8	#25950.00	-	-	-	-	-	-	-
9	#31140.00	-	-	-	-	-	-	-
10	#36330.00	-	-	-	-	-	-	-

REMARKS:

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

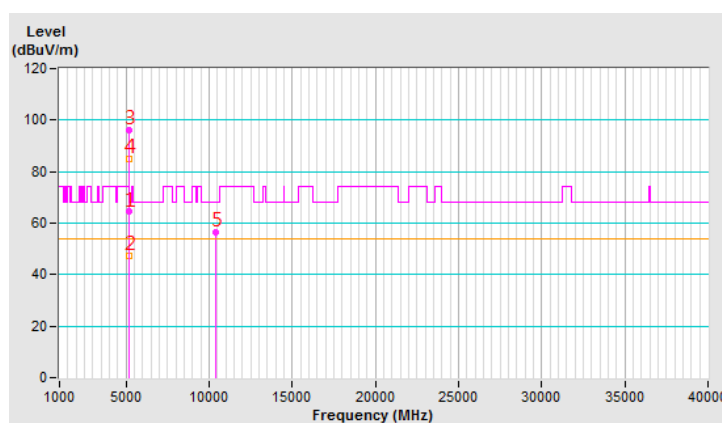


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 38：5190 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 24 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.33 PK	74.00	-9.67	2.27 V	172	55.41	8.92
2	5150.00	47.44 AV	54.00	-6.56	2.27 V	172	38.52	8.92
3	*5190.00	96.16 PK			2.27 V	172	87.14	9.02
4	*5190.00	85.13 AV			2.27 V	172	76.11	9.02
5	#10380.00	56.58 PK	68.20	-11.62	3.65 V	104	40.53	16.05
6	15570.00	-	-	-	-	-	-	-
7	20760.00	-	-	-	-	-	-	-
8	#25950.00	-	-	-	-	-	-	-
9	#31140.00	-	-	-	-	-	-	-
10	#36330.00	-	-	-	-	-	-	-

REMARKS:

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

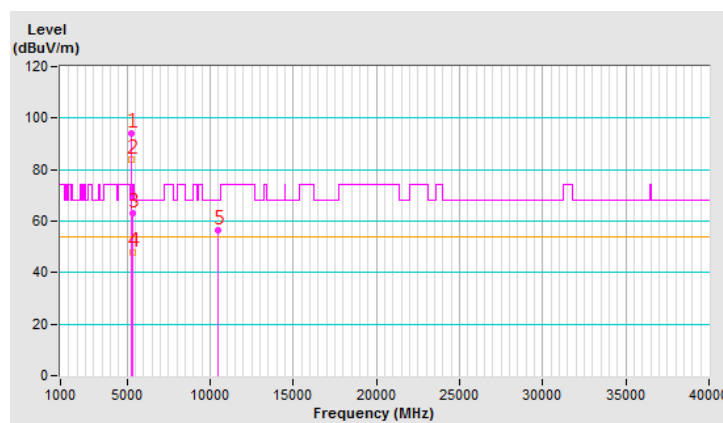


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	94.01 PK			1.50 H	135	84.81	9.20
2	*5230.00	83.97 AV			1.50 H	135	74.77	9.20
3	5350.00	63.13 PK	74.00	-10.87	1.50 H	135	53.29	9.84
4	5350.00	47.96 AV	54.00	-6.04	1.50 H	135	38.12	9.84
5	#10460.00	56.47 PK	68.20	-11.73	2.66 H	182	40.14	16.33
6	15690.00	-	-	-	-	-	-	-
7	20920.00	-	-	-	-	-	-	-
8	#26150.00	-	-	-	-	-	-	-
9	31380.00	-	-	-	-	-	-	-
10	#36610.00	-	-	-	-	-	-	-

REMARKS:

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

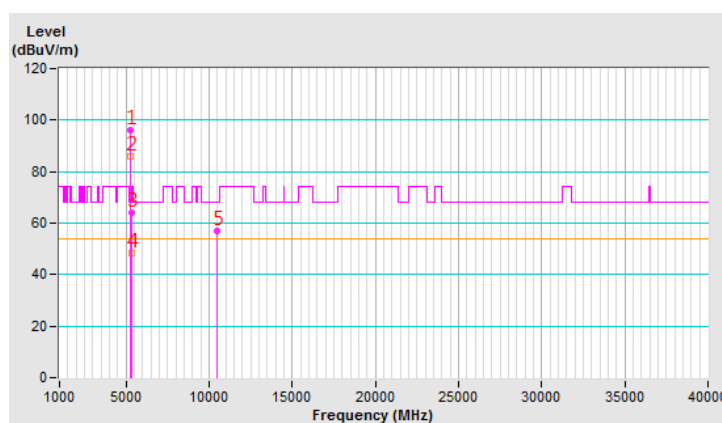


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	96.12 PK			2.33 V	170	86.92	9.20
2	*5230.00	86.08 AV			2.33 V	170	76.88	9.20
3	5350.00	64.13 PK	74.00	-9.87	2.33 V	170	54.29	9.84
4	5350.00	48.44 AV	54.00	-5.56	2.33 V	170	38.60	9.84
5	#10460.00	56.79 PK	68.20	-11.41	3.71 V	100	40.46	16.33
6	15690.00	-	-	-	-	-	-	-
7	20920.00	-	-	-	-	-	-	-
8	#26150.00	-	-	-	-	-	-	-
9	31380.00	-	-	-	-	-	-	-
10	#36610.00	-	-	-	-	-	-	-

REMARKS:

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

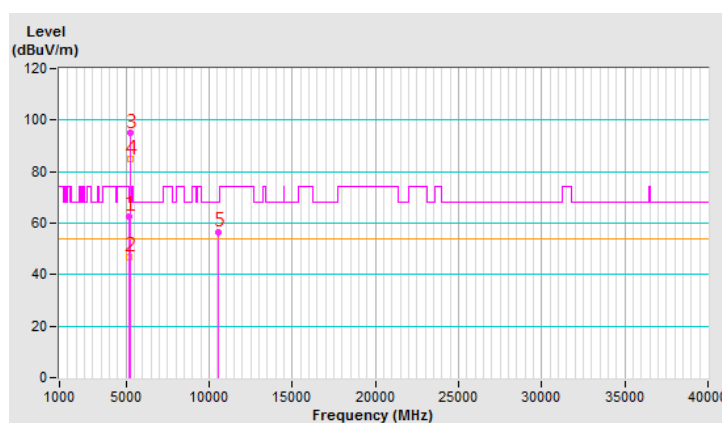


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 54：5270 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.43 PK	74.00	-11.57	1.50 H	132	53.51	8.92
2	5150.00	46.96 AV	54.00	-7.04	1.50 H	132	38.04	8.92
3	*5270.00	94.89 PK			1.50 H	132	85.49	9.40
4	*5270.00	84.71 AV			1.50 H	132	75.31	9.40
5	#10540.00	56.58 PK	68.20	-11.62	2.58 H	179	40.08	16.50
6	15810.00	-	-	-	-	-	-	-
7	21080.00	-	-	-	-	-	-	-
8	#26350.00	-	-	-	-	-	-	-
9	31620.00	-	-	-	-	-	-	-
10	#36890.00	-	-	-	-	-	-	-

REMARKS:

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

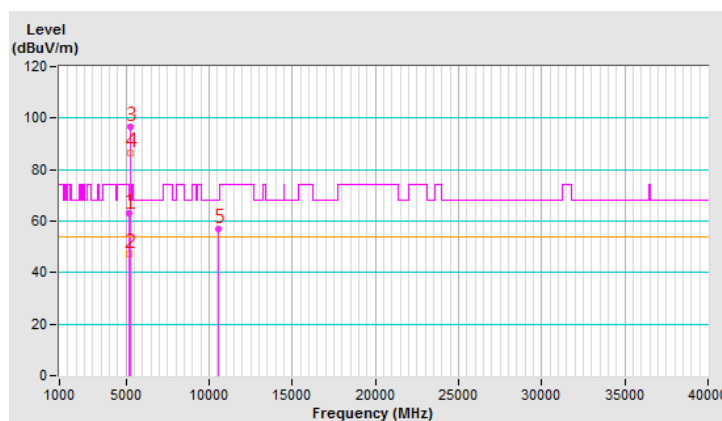


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 54：5270 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.87 PK	74.00	-11.13	1.19 V	19	53.95	8.92
2	5150.00	47.39 AV	54.00	-6.61	1.19 V	19	38.47	8.92
3	*5270.00	96.63 PK			1.19 V	19	87.23	9.40
4	*5270.00	86.46 AV			1.19 V	19	77.06	9.40
5	#10540.00	56.87 PK	68.20	-11.33	3.66 V	103	40.37	16.50
6	15810.00	-	-	-	-	-	-	-
7	21080.00	-	-	-	-	-	-	-
8	#26350.00	-	-	-	-	-	-	-
9	31620.00	-	-	-	-	-	-	-
10	#36890.00	-	-	-	-	-	-	-

REMARKS:

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

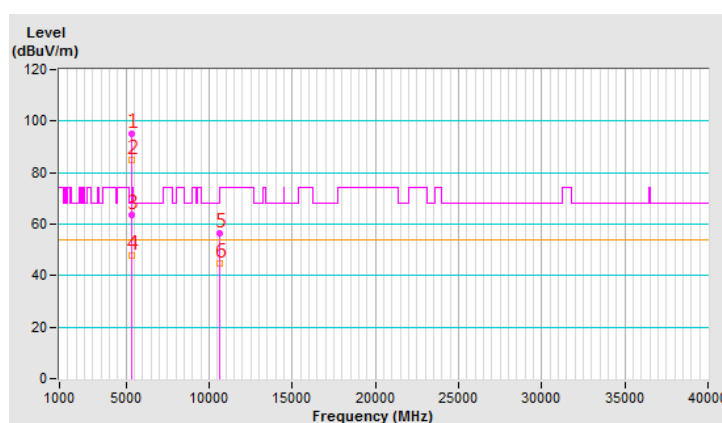


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 62：5310 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	95.30 PK			1.49 H	130	85.67	9.63
2	*5310.00	85.14 AV			1.49 H	130	75.51	9.63
3	5350.00	63.50 PK	74.00	-10.50	1.49 H	130	53.66	9.84
4	5350.00	47.99 AV	54.00	-6.01	1.49 H	130	38.15	9.84
5	10620.00	56.61 PK	74.00	-17.39	2.60 H	184	40.12	16.49
6	10620.00	44.58 AV	54.00	-9.42	2.60 H	184	28.09	16.49
7	15930.00	-	-	-	-	-	-	-
8	21240.00	-	-	-	-	-	-	-
9	#26550.00	-	-	-	-	-	-	-
10	#31860.00	-	-	-	-	-	-	-
11	#37170.00	-	-	-	-	-	-	-

REMARKS:

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

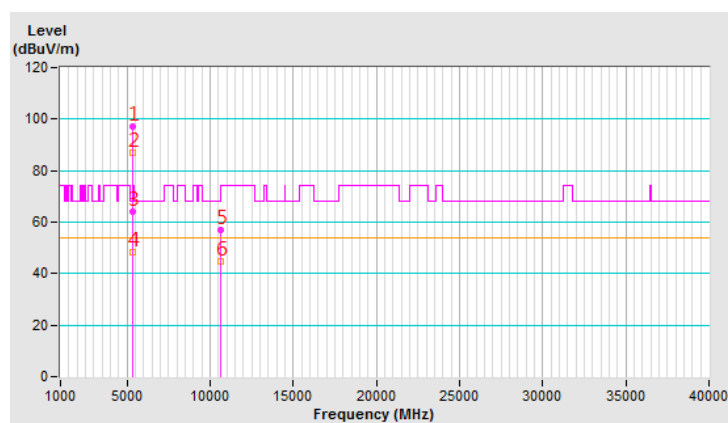


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 62：5310 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	97.12 PK			1.21 V	17	87.49	9.63
2	*5310.00	86.98 AV			1.21 V	17	77.35	9.63
3	5350.00	64.00 PK	74.00	-10.00	1.21 V	17	54.16	9.84
4	5350.00	48.39 AV	54.00	-5.61	1.21 V	17	38.55	9.84
5	10620.00	56.83 PK	74.00	-17.17	3.62 V	101	40.34	16.49
6	10620.00	44.87 AV	54.00	-9.13	3.62 V	101	28.38	16.49
7	15930.00	-	-	-	-	-	-	-
8	21240.00	-	-	-	-	-	-	-
9	#26550.00	-	-	-	-	-	-	-
10	#31860.00	-	-	-	-	-	-	-
11	#37170.00	-	-	-	-	-	-	-

REMARKS:

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

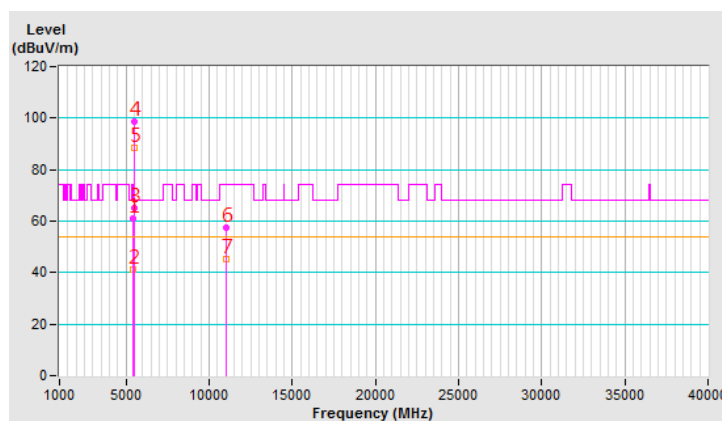


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 102：5510 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.04 PK	74.00	-12.96	1.03 H	230	50.67	10.37
2	5460.00	41.22 AV	54.00	-12.78	1.03 H	230	30.85	10.37
3	#5470.00	65.24 PK	68.20	-2.96	1.03 H	230	54.82	10.42
4	*5510.00	98.50 PK			1.03 H	230	87.96	10.54
5	*5510.00	88.35 AV			1.03 H	230	77.81	10.54
6	11020.00	57.55 PK	74.00	-16.45	2.51 H	188	40.16	17.39
7	11020.00	45.48 AV	54.00	-8.52	2.51 H	188	28.09	17.39
8	#16530.00	-	-	-	-	-	-	-
9	22040.00	-	-	-	-	-	-	-
10	#27550.00	-	-	-	-	-	-	-
11	#33060.00	-	-	-	-	-	-	-
12	#38570.00	-	-	-	-	-	-	-

REMARKS:

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



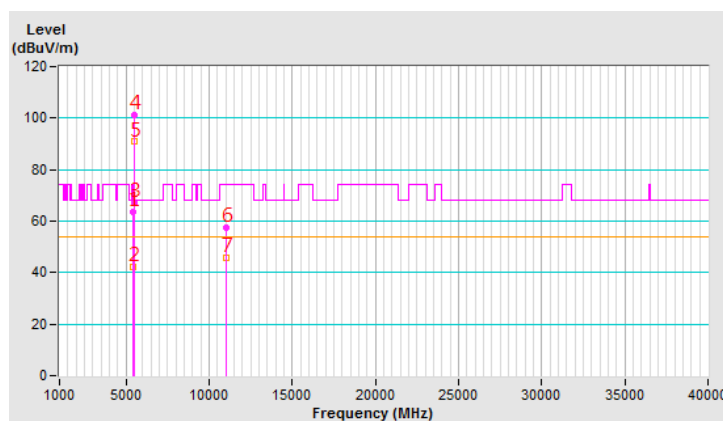
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 102：5510 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.44 PK	74.00	-10.56	1.01 V	134	53.07	10.37
2	5460.00	42.11 AV	54.00	-11.89	1.01 V	134	31.74	10.37
3	#5470.00	67.09 PK	68.20	-1.11	1.01 V	134	56.67	10.42
4	*5510.00	101.02 PK			1.01 V	134	90.48	10.54
5	*5510.00	90.77 AV			1.01 V	134	80.23	10.54
6	11020.00	57.70 PK	74.00	-16.30	3.32 V	115	40.31	17.39
7	11020.00	45.82 AV	54.00	-8.18	3.32 V	115	28.43	17.39
8	#16530.00	-	-	-	-	-	-	-
9	22040.00	-	-	-	-	-	-	-
10	#27550.00	-	-	-	-	-	-	-
11	#33060.00	-	-	-	-	-	-	-
12	#38570.00	-	-	-	-	-	-	-

REMARKS:

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

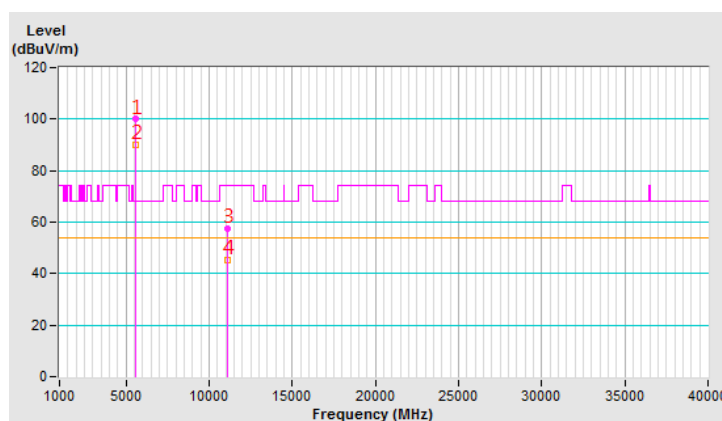


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 110：5550 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	99.95 PK			1.05 H	233	89.63	10.32
2	*5550.00	89.86 AV			1.05 H	233	79.54	10.32
3	11100.00	57.30 PK	74.00	-16.70	2.55 H	191	40.31	16.99
4	11100.00	45.25 AV	54.00	-8.75	2.55 H	191	28.26	16.99
5	#16650.00	-	-	-	-	-	-	-
6	22200.00	-	-	-	-	-	-	-
7	#27750.00	-	-	-	-	-	-	-
8	#33300.00	-	-	-	-	-	-	-
9	38850.00	-	-	-	-	-	-	-

REMARKS:

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

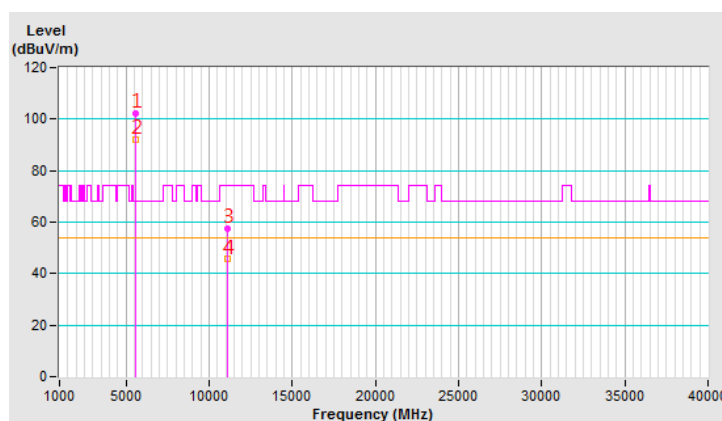


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 110：5550 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	102.29 PK			1.00 V	131	91.97	10.32
2	*5550.00	92.18 AV			1.00 V	131	81.86	10.32
3	11100.00	57.58 PK	74.00	-16.42	3.28 V	106	40.59	16.99
4	11100.00	45.51 AV	54.00	-8.49	3.28 V	106	28.52	16.99
5	#16650.00	-	-	-	-	-	-	-
6	22200.00	-	-	-	-	-	-	-
7	#27750.00	-	-	-	-	-	-	-
8	#33300.00	-	-	-	-	-	-	-
9	38850.00	-	-	-	-	-	-	-

REMARKS:

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

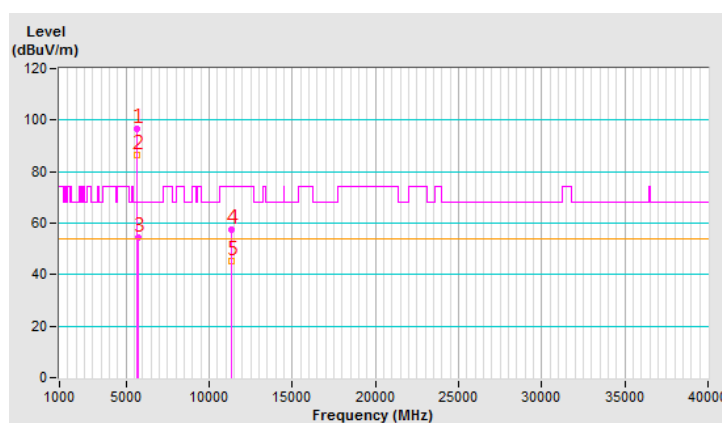


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 134：5670 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	96.62 PK			1.05 H	231	86.85	9.77
2	*5670.00	86.46 AV			1.05 H	231	76.69	9.77
3	#5725.00	54.48 PK	68.20	-13.72	1.05 H	231	44.89	9.59
4	11340.00	57.60 PK	74.00	-16.40	2.50 H	185	40.18	17.42
5	11340.00	45.48 AV	54.00	-8.52	2.50 H	185	28.06	17.42
6	#17010.00	-	-	-	-	-	-	-
7	22680.00	-	-	-	-	-	-	-
8	#28350.00	-	-	-	-	-	-	-
9	#34020.00	-	-	-	-	-	-	-
10	39690.00	-	-	-	-	-	-	-

REMARKS:

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

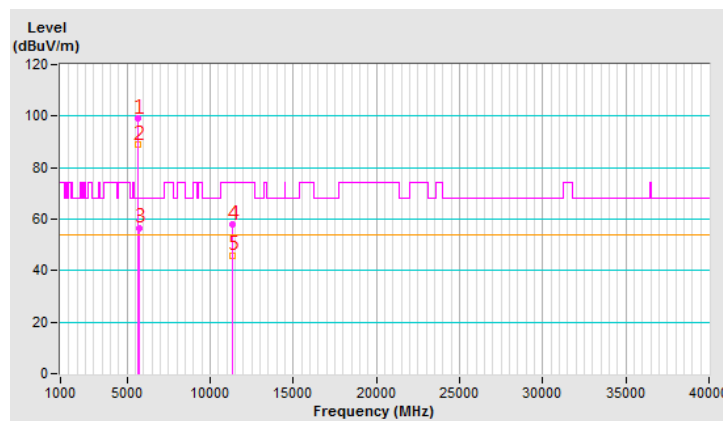


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 134 : 5670 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	98.96 PK			1.02 V	133	89.19	9.77
2	*5670.00	88.80 AV			1.02 V	133	79.03	9.77
3	#5725.00	56.53 PK	68.20	-11.67	1.02 V	133	46.94	9.59
4	11340.00	57.75 PK	74.00	-16.25	3.24 V	103	40.33	17.42
5	11340.00	45.81 AV	54.00	-8.19	3.24 V	103	28.39	17.42
6	#17010.00	-	-	-	-	-	-	-
7	22680.00	-	-	-	-	-	-	-
8	#28350.00	-	-	-	-	-	-	-
9	#34020.00	-	-	-	-	-	-	-
10	39690.00	-	-	-	-	-	-	-

REMARKS:

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

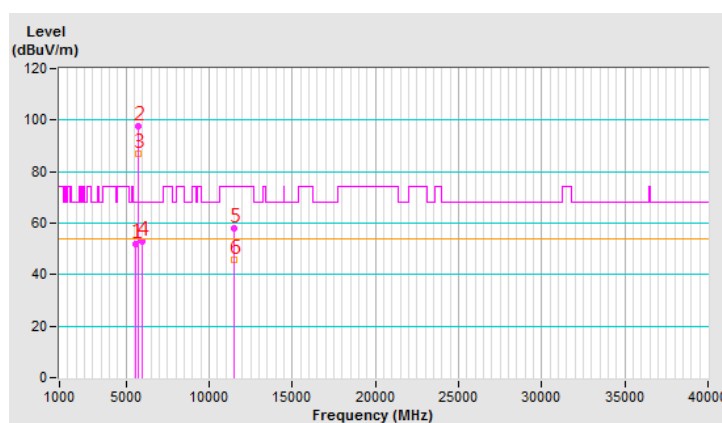


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5599.87	52.03 PK	68.20	-16.17	1.01 H	220	41.96	10.07
2	*5755.00	97.56 PK			1.01 H	220	88.01	9.55
3	*5755.00	87.13 AV			1.01 H	220	77.58	9.55
4	#5946.15	52.76 PK	68.20	-15.44	1.01 H	220	42.95	9.81
5	11510.00	57.84 PK	74.00	-16.16	2.77 H	182	40.12	17.72
6	11510.00	45.63 AV	54.00	-8.37	2.77 H	182	27.91	17.72
7	#17265.00	-	-	-	-	-	-	-
8	23020.00	-	-	-	-	-	-	-
9	#28775.00	-	-	-	-	-	-	-
10	#34530.00	-	-	-	-	-	-	-

REMARKS:

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

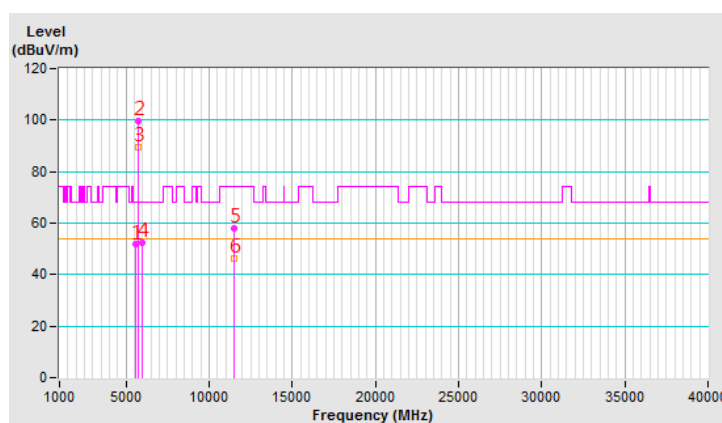


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5603.20	51.67 PK	68.20	-16.53	1.04 V	125	41.61	10.06
2	*5755.00	99.82 PK			1.04 V	125	90.27	9.55
3	*5755.00	89.34 AV			1.04 V	125	79.79	9.55
4	#5934.75	52.43 PK	68.20	-15.77	1.04 V	125	42.64	9.79
5	11510.00	58.19 PK	74.00	-15.81	3.57 V	101	40.47	17.72
6	11510.00	46.14 AV	54.00	-7.86	3.57 V	101	28.42	17.72
7	#17265.00	-	-	-	-	-	-	-
8	23020.00	-	-	-	-	-	-	-
9	#28775.00	-	-	-	-	-	-	-
10	#34530.00	-	-	-	-	-	-	-

REMARKS:

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

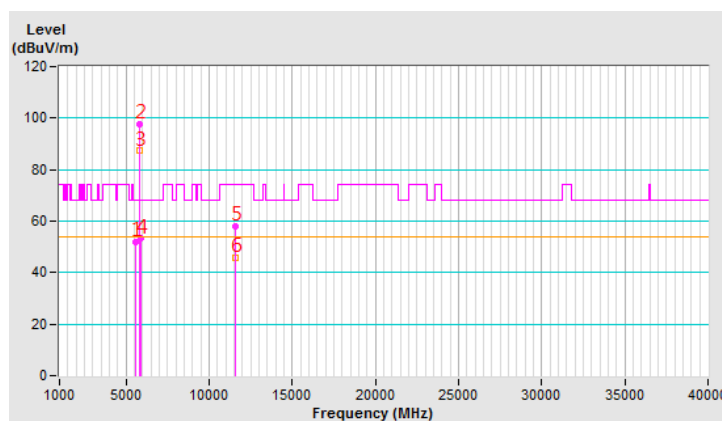


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159：5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5588.48	52.00 PK	68.20	-16.20	1.00 H	218	41.87	10.13
2	*5795.00	97.49 PK			1.00 H	218	87.93	9.56
3	*5795.00	87.22 AV			1.00 H	218	77.66	9.56
4	#5929.05	53.18 PK	68.20	-15.02	1.00 H	218	43.40	9.78
5	11590.00	57.87 PK	74.00	-16.13	2.75 H	174	40.02	17.85
6	11590.00	45.70 AV	54.00	-8.30	2.75 H	174	27.85	17.85
7	#17385.00	-	-	-	-	-	-	-
8	#23180.00	-	-	-	-	-	-	-
9	#28975.00	-	-	-	-	-	-	-
10	#34770.00	-	-	-	-	-	-	-

REMARKS:

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

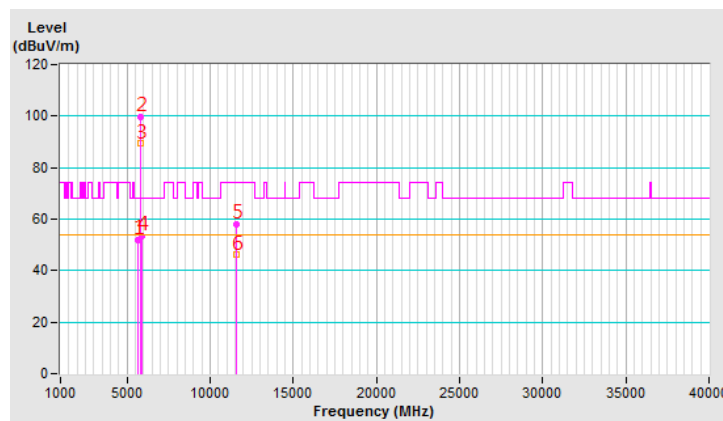


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159：5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1.1kHz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.65	51.88 PK	68.20	-16.32	1.02 V	127	41.93	9.95
2	*5795.00	99.69 PK			1.02 V	127	90.13	9.56
3	*5795.00	89.27 AV			1.02 V	127	79.71	9.56
4	#5928.10	53.43 PK	68.20	-14.77	1.02 V	127	43.66	9.77
5	11590.00	58.11 PK	74.00	-15.89	3.53 V	105	40.26	17.85
6	11590.00	46.05 AV	54.00	-7.95	3.53 V	105	28.20	17.85
7	#17385.00	-	-	-	-	-	-	-
8	#23180.00	-	-	-	-	-	-	-
9	#28975.00	-	-	-	-	-	-	-
10	#34770.00	-	-	-	-	-	-	-

REMARKS:

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



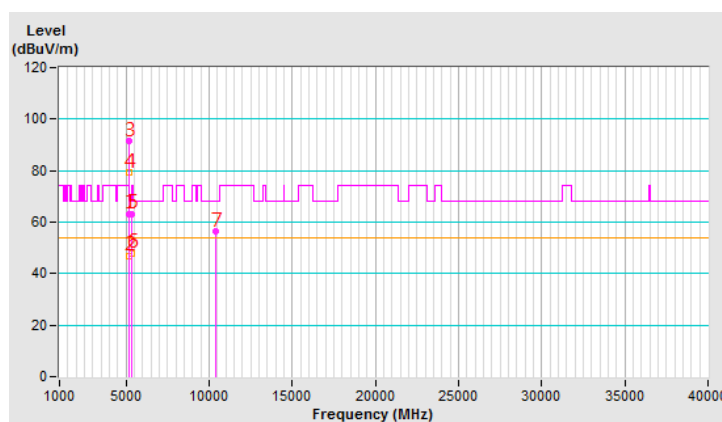
802.11ac (80MHz)

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 42 : 5210 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	24℃	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.99 PK	74.00	-11.01	1.46 H	129	54.07	8.92
2	5150.00	47.01 AV	54.00	-6.99	1.46 H	129	38.09	8.92
3	*5210.00	91.34 PK			1.46 H	129	82.25	9.09
4	*5210.00	79.15 AV			1.46 H	129	70.06	9.09
5	5350.00	63.27 PK	74.00	-10.73	1.46 H	129	53.43	9.84
6	5350.00	47.99 AV	54.00	-6.01	1.46 H	129	38.15	9.84
7	#10420.00	56.27 PK	68.20	-11.93	2.59 H	184	40.08	16.19
8	15630.00	-	-	-	-	-	-	-
9	20840.00	-	-	-	-	-	-	-
10	#26050.00	-	-	-	-	-	-	-
11	31260.00	-	-	-	-	-	-	-
12	36470.00	-	-	-	-	-	-	-

REMARKS:

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

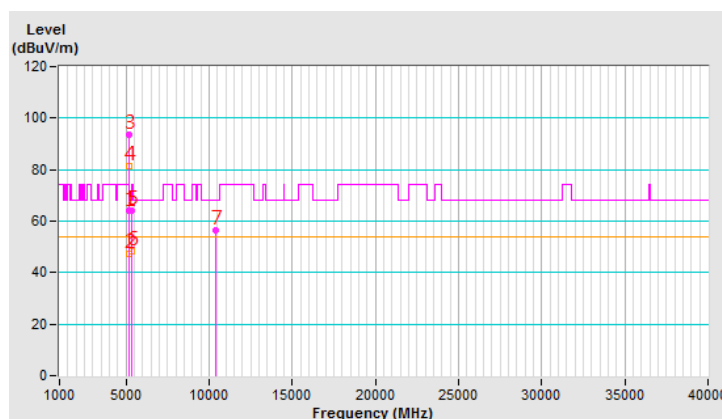


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 42：5210 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.84 PK	74.00	-10.16	1.21 V	20	54.92	8.92
2	5150.00	47.33 AV	54.00	-6.67	1.21 V	20	38.41	8.92
3	*5210.00	93.67 PK			1.21 V	20	84.58	9.09
4	*5210.00	81.28 AV			1.21 V	20	72.19	9.09
5	5350.00	63.95 PK	74.00	-10.05	1.21 V	20	54.11	9.84
6	5350.00	48.24 AV	54.00	-5.76	1.21 V	20	38.40	9.84
7	#10420.00	56.52 PK	68.20	-11.68	3.68 V	94	40.33	16.19
8	15630.00	-	-	-	-	-	-	-
9	20840.00	-	-	-	-	-	-	-
10	#26050.00	-	-	-	-	-	-	-
11	31260.00	-	-	-	-	-	-	-
12	36470.00	-	-	-	-	-	-	-

REMARKS:

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

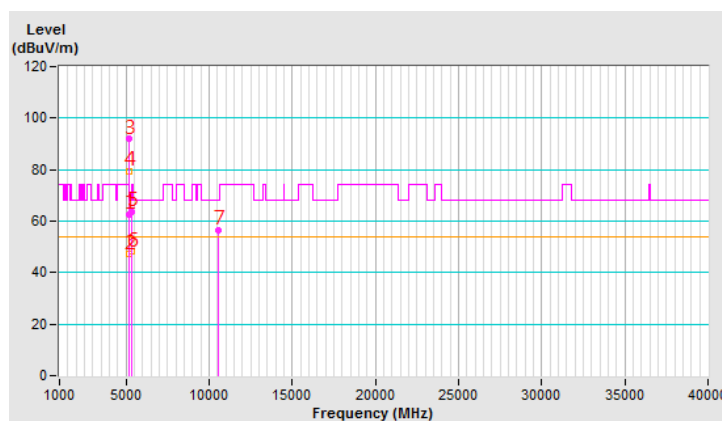


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 58：5290 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.65 PK	74.00	-11.35	1.54 H	130	53.73	8.92
2	5150.00	47.08 AV	54.00	-6.92	1.54 H	130	38.16	8.92
3	*5290.00	91.83 PK			1.54 H	130	82.74	9.09
4	*5290.00	79.44 AV			1.54 H	130	70.35	9.09
5	5350.00	63.59 PK	74.00	-10.41	1.54 H	130	53.75	9.84
6	5350.00	48.06 AV	54.00	-5.94	1.54 H	130	38.22	9.84
7	#10580.00	56.61 PK	68.20	-11.59	2.59 H	174	40.10	16.51
8	15870.00	-	-	-	-	-	-	-
9	21160.00	-	-	-	-	-	-	-
10	#26450.00	-	-	-	-	-	-	-
11	31740.00	-	-	-	-	-	-	-
12	#37030.00	-	-	-	-	-	-	-

REMARKS:

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

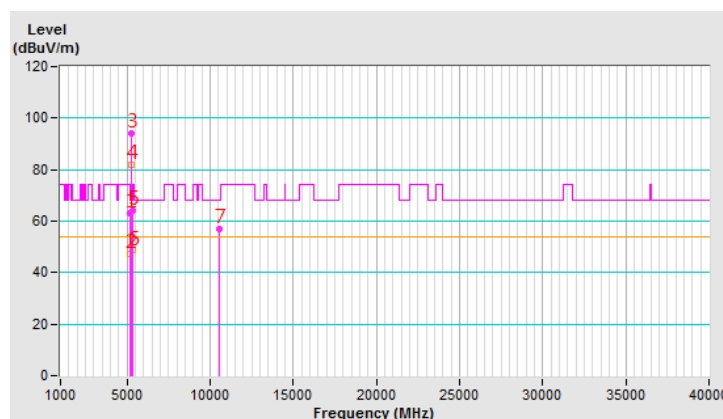


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 58：5290 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 25 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.27 PK	74.00	-10.73	1.17 V	22	54.35	8.92
2	5150.00	47.54 AV	54.00	-6.46	1.17 V	22	38.62	8.92
3	*5290.00	94.19 PK			1.17 V	22	84.66	9.53
4	*5290.00	81.91 AV			1.17 V	22	72.38	9.53
5	5350.00	64.31 PK	74.00	-9.69	1.17 V	22	54.47	9.84
6	5350.00	48.61 AV	54.00	-5.39	1.17 V	22	38.77	9.84
7	#10580.00	56.87 PK	68.20	-11.33	3.65 V	97	40.36	16.51
8	15870.00	-	-	-	-	-	-	-
9	21160.00	-	-	-	-	-	-	-
10	#26450.00	-	-	-	-	-	-	-
11	31740.00	-	-	-	-	-	-	-
12	#37030.00	-	-	-	-	-	-	-

REMARKS:

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

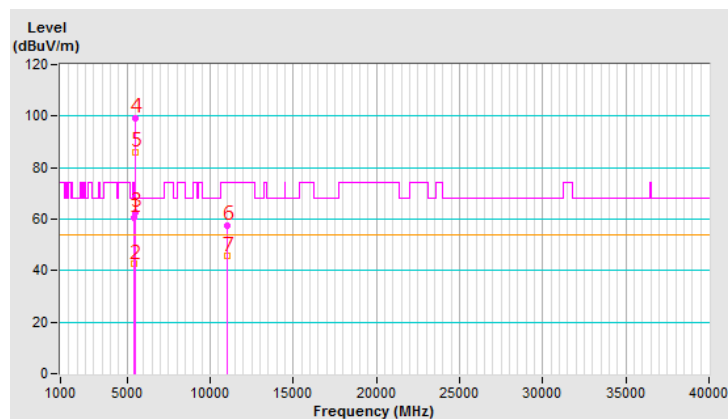


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 106：5530 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	24℃	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.61 PK	74.00	-13.39	1.00 V	134	50.24	10.37
2	5460.00	42.48 AV	54.00	-11.52	1.00 V	134	32.11	10.37
3	#5470.00	62.49 PK	68.20	-5.71	1.00 V	134	52.07	10.42
4	*5530.00	99.32 PK			1.00 V	134	88.89	10.43
5	*5530.00	85.79 AV			1.00 V	134	75.36	10.43
6	11060.00	57.54 PK	74.00	-16.46	3.34 V	111	40.35	17.19
7	11060.00	45.51 AV	54.00	-8.49	3.34 V	111	28.32	17.19
8	#16590.00	-	-	-	-	-	-	-
9	22120.00	-	-	-	-	-	-	-
10	#27650.00	-	-	-	-	-	-	-
11	#33180.00	-	-	-	-	-	-	-
12	38710.00	-	-	-	-	-	-	-

REMARKS:

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

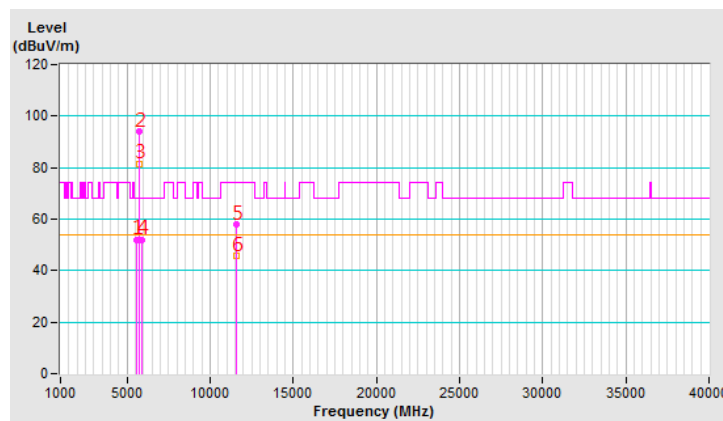


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 155：5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5612.70	51.74 PK	68.20	-16.46	1.00 H	217	41.72	10.02
2	*5775.00	93.82 PK			1.00 H	217	84.25	9.57
3	*5775.00	81.59 AV			1.00 H	217	72.02	9.57
4	#5929.05	52.08 PK	68.20	-16.12	1.00 H	217	42.30	9.78
5	11550.00	57.79 PK	74.00	-16.21	2.72 H	178	40.00	17.79
6	11550.00	45.58 AV	54.00	-8.42	2.72 H	178	27.79	17.79
7	#17325.00	-	-	-	-	-	-	-
8	23100.00	-	-	-	-	-	-	-
9	#28875.00	-	-	-	-	-	-	-
10	#34650.00	-	-	-	-	-	-	-

REMARKS:

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

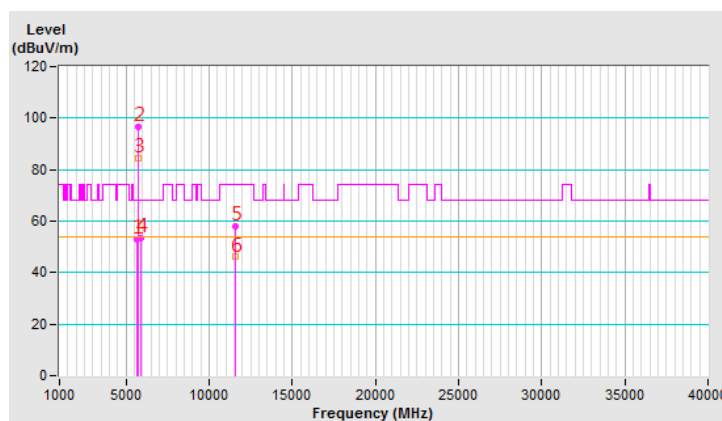


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 155：5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=2.2kHz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5637.40	53.11 PK	68.20	-15.09	1.02 V	126	43.18	9.93
2	*5775.00	96.51 PK			1.02 V	126	86.94	9.57
3	*5775.00	84.39 AV			1.02 V	126	74.82	9.57
4	#5929.52	53.28 PK	68.20	-14.92	1.02 V	126	43.50	9.78
5	11550.00	58.12 PK	74.00	-15.88	3.51 V	106	40.33	17.79
6	11550.00	46.08 AV	54.00	-7.92	3.51 V	106	28.29	17.79
7	#17325.00	-	-	-	-	-	-	-
8	23100.00	-	-	-	-	-	-	-
9	#28875.00	-	-	-	-	-	-	-
10	#34650.00	-	-	-	-	-	-	-

REMARKS:

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



9.6.2 接收諧波

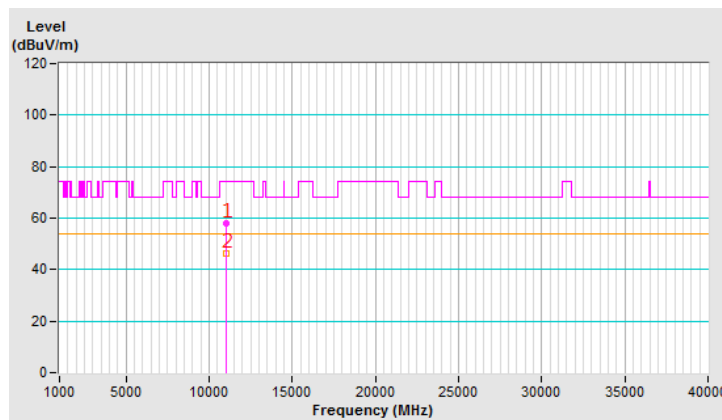
802.11ac (20MHz)

操作模式：	接收		
基本波頻率：	CH 100 : 5500 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11000.00	57.86 PK	74.00	-16.14	1.61 H	228	40.37	17.49
2	11000.00	46.14 AV	54.00	-7.86	1.61 H	228	28.65	17.49

REMARKS:

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

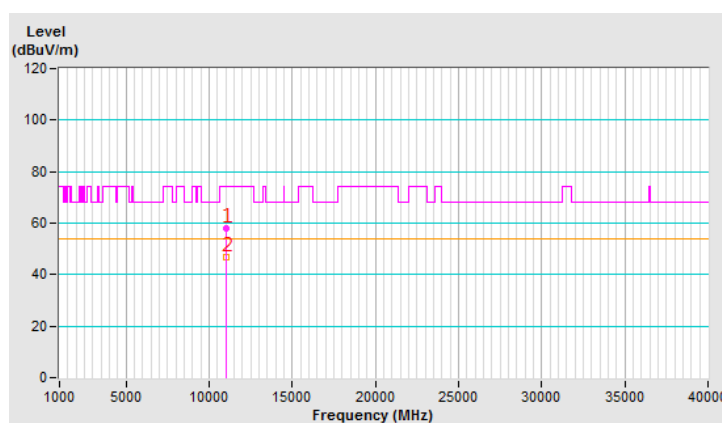


操作模式：	接收		
基本波頻率：	CH 100 : 5500 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=560Hz
量測場地溫度：	22°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 27 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11000.00	58.16 PK	74.00	-15.84	1.29 V	313	40.67	17.49
2	11000.00	46.72 AV	54.00	-7.28	1.29 V	313	29.23	17.49

REMARKS:

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



9.6.3 其它不必要之訊號

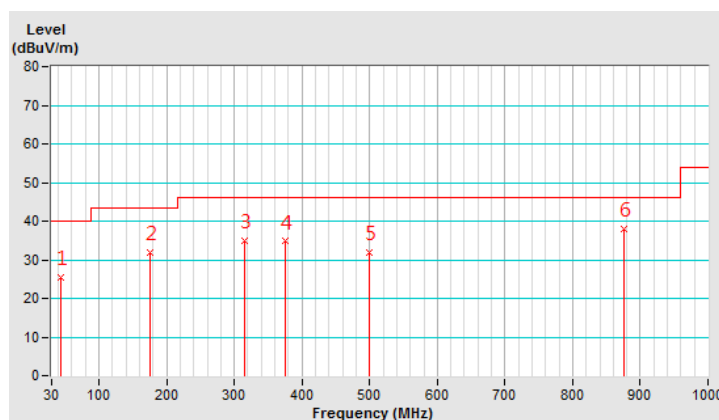
802.11ac (20MHz)

操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 100 : 5500 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	24°C	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	43.00	25.50 QP	40.00	-14.50	1.45 H	94	32.81	-7.31
2	175.01	31.90 QP	43.50	-11.60	1.78 H	6	39.30	-7.40
3	315.67	35.06 QP	46.00	-10.94	1.26 H	140	39.51	-4.45
4	374.98	34.75 QP	46.00	-11.25	2.04 H	59	38.11	-3.36
5	500.01	31.83 QP	46.00	-14.17	2.42 H	180	32.43	-0.60
6	875.02	37.99 QP	46.00	-8.01	1.91 H	211	31.72	6.27

REMARKS:

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



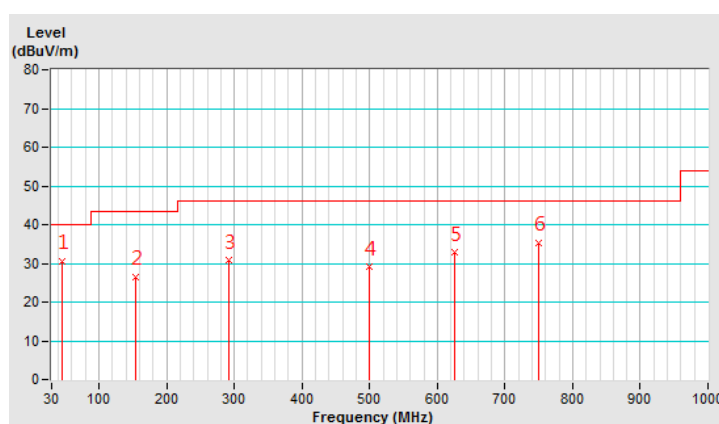
操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 100：5500 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	24℃	量測場地濕度：	73%RH
測試日期：	108 年 12 月 26 日	測試者：	戴瑋倫

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	44.84	30.67 QP	40.00	-9.33	1.73 V	278	37.88	-7.21
2	153.43	26.48 QP	43.50	-17.02	1.69 V	339	33.11	-6.63
3	292.24	30.76 QP	46.00	-15.24	2.04 V	152	35.85	-5.09
4	500.01	29.03 QP	46.00	-16.97	1.66 V	271	29.63	-0.60
5	625.05	32.77 QP	46.00	-13.23	1.08 V	330	30.28	2.49
6	750.03	35.26 QP	46.00	-10.74	1.52 V	8	30.71	4.55

REMARKS:

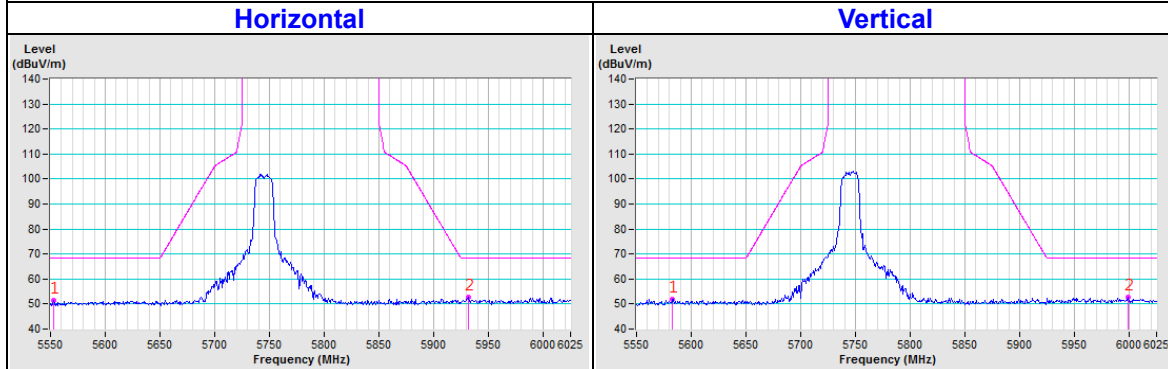
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.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



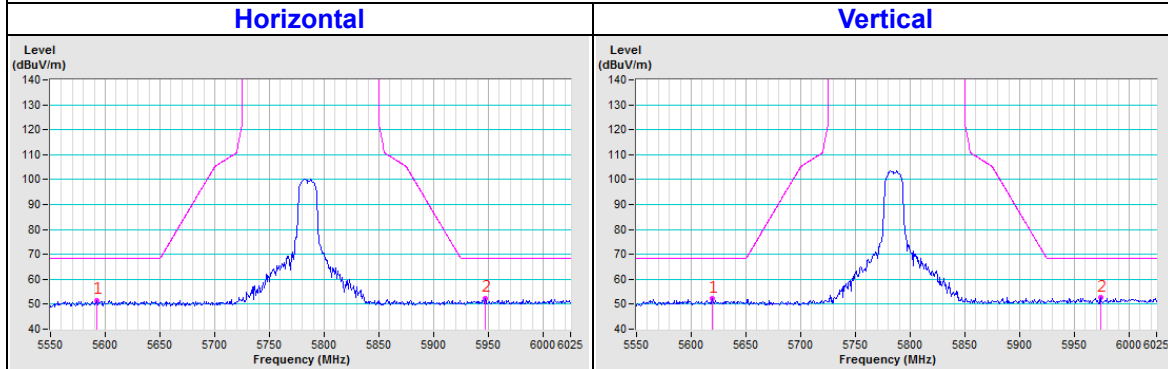
9.6.4 帶外發射之量測 (For 5.725 GHz~5.850 GHz band)

802.11a

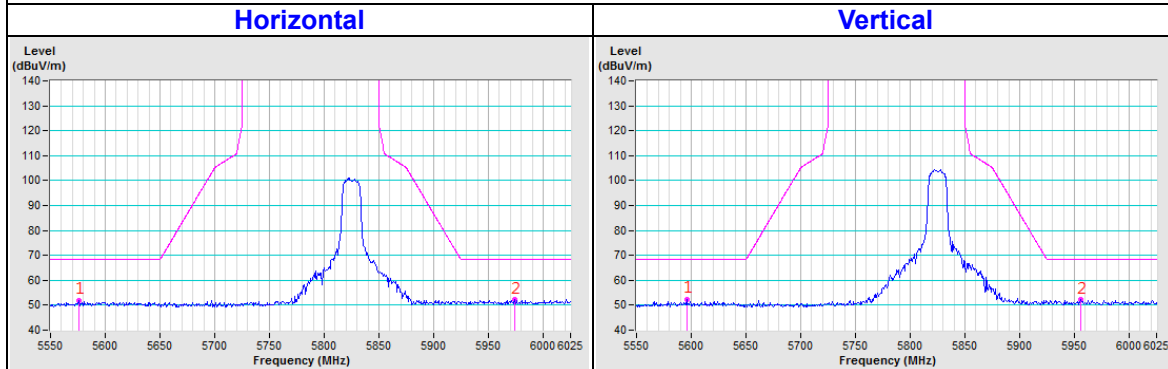
CH149



CH157



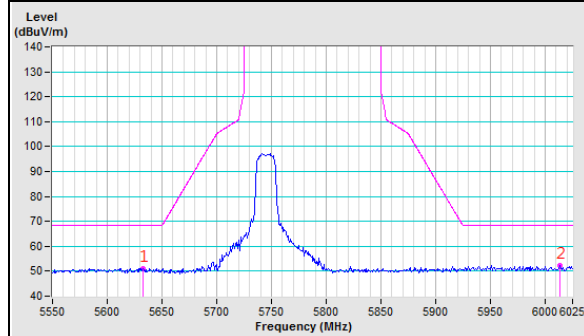
CH165



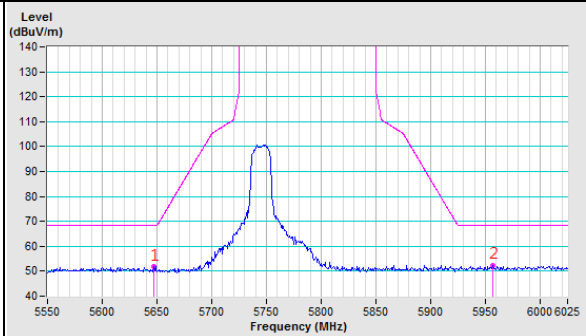
802.11ac (20MHz)

CH149

Horizontal

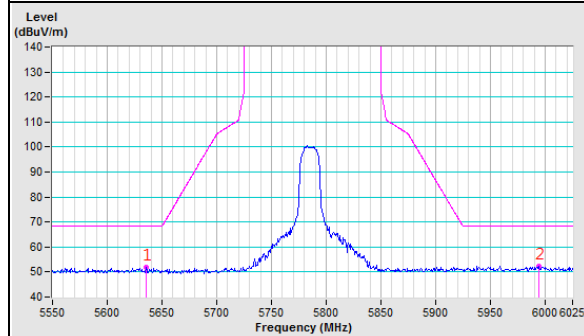


Vertical

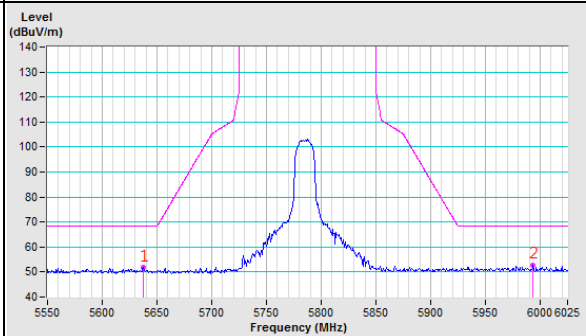


CH157

Horizontal

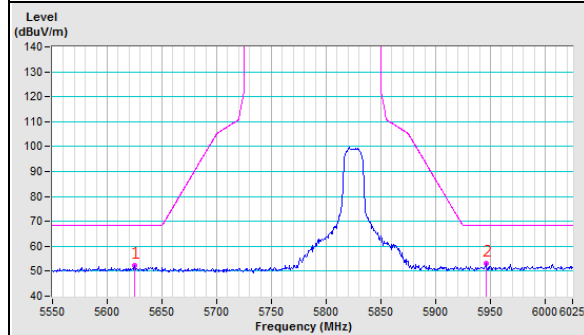


Vertical

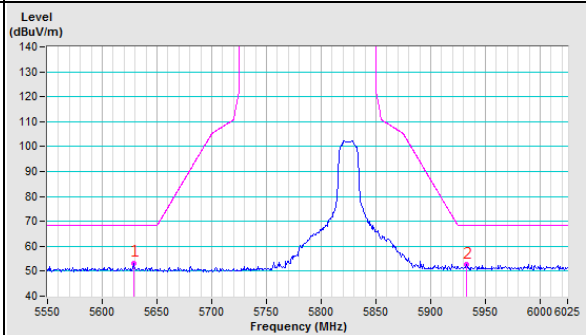


CH165

Horizontal

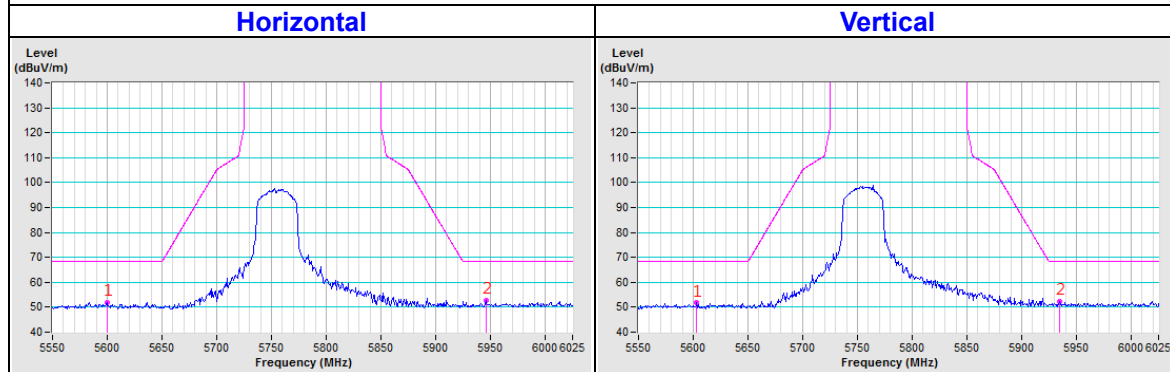


Vertical

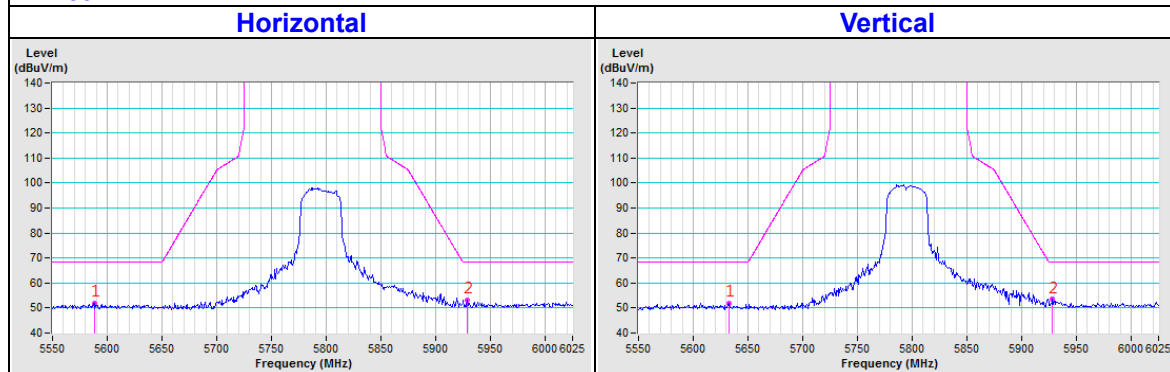


802.11ac (40MHz)

CH151

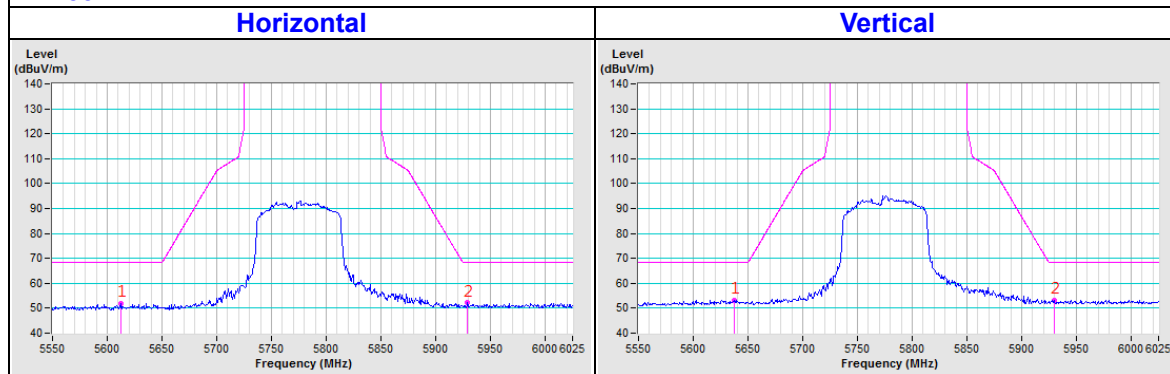


CH159



802.11ac (80MHz)

CH155



9.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

9.8 輻射量測之配置照片

請參照 Test Setup Photos

10 電源線傳導干擾之量測

10.1 適用標準

請見本報告 3.1 節第 1 項的規定。

10.2 量測方法

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

10.3 量測儀器

同 5.3 節

10.4 測試配置

同 5.4 節

10.5 干擾值之計算

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

電源傳導干擾電壓之計算公式如下

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

其中校正因子 Correction Factor (dB)為：

饋線損失+電源阻抗模擬網路損失

10.6 量測結果

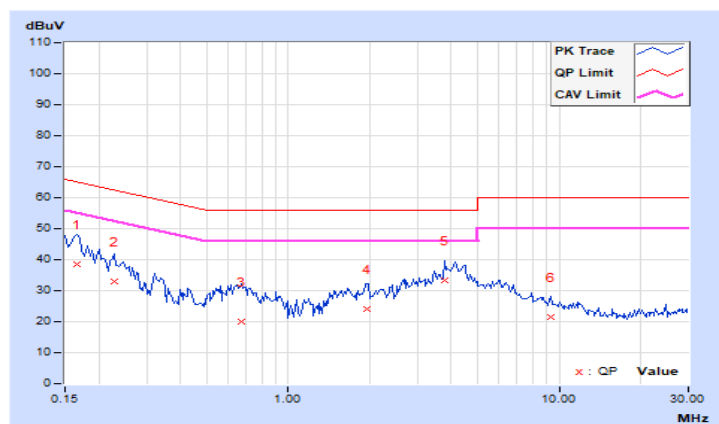
802.11ac (20MHz)

操作模式	發射/接收	測試日期	109 年 3 月 12 日
基本波頻率	CH 100 : 5500 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	張君煌		

		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.
0.16562	9.64	28.74	14.27	38.38	23.91	65.18	55.18	-26.80	-31.27
0.22812	9.64	23.22	10.70	32.86	20.34	62.52	52.52	-29.66	-32.18
0.67344	9.66	10.19	2.64	19.85	12.30	56.00	46.00	-36.15	-33.70
1.94531	9.71	14.38	6.40	24.09	16.11	56.00	46.00	-31.91	-29.89
3.76172	9.75	23.41	16.85	33.16	26.60	56.00	46.00	-22.84	-19.40
9.26953	9.82	11.65	4.91	21.47	14.73	60.00	50.00	-38.53	-35.27

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.

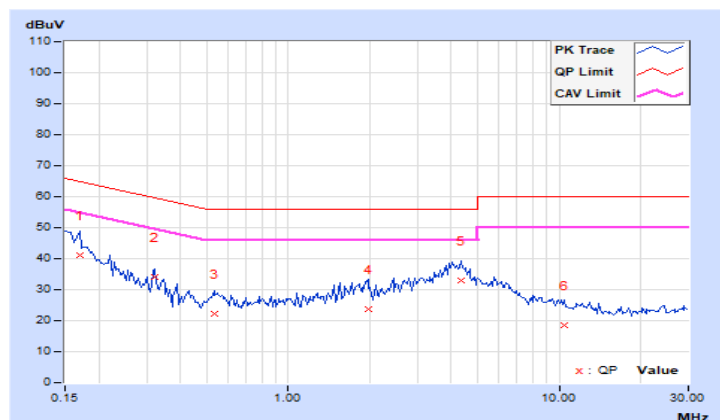


操作模式	發射/接收	測試日期	109 年 3 月 12 日
基本波頻率	CH 100 : 5500 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張君煌		

		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.
0.16953	9.66	31.31	13.93	40.97	23.59	64.98	54.98	-24.01	-31.39
0.32188	9.67	24.39	17.49	34.06	27.16	59.66	49.66	-25.60	-22.50
0.53281	9.68	12.39	6.27	22.07	15.95	56.00	46.00	-33.93	-30.05
1.98047	9.73	14.08	6.77	23.81	16.50	56.00	46.00	-32.19	-29.50
4.33984	9.79	23.12	16.98	32.91	26.77	56.00	46.00	-23.09	-19.23
10.50000	9.88	8.67	3.47	18.55	13.35	60.00	50.00	-41.45	-36.65

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

請參照 Test Setup Photos

11 傳導輸出功率量測及發射頻寬之要求

11.1 適用標準

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

11.2 量測方法

傳導輸出功率量測方法：

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

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

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

發射頻寬量測方法：

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

11.3 量測儀器

峰值傳導輸出功率量測儀器：同 7.3 節

發射頻寬之量測儀器：同 6.3 節

11.4 測試配置

峰值傳導輸出功率測試配置：同 7.4 節

發射頻寬之測試配置：同 6.4 節

11.5 峰值傳導輸出功率之量測結果

操作模式	發射	測試日期	109 年 2 月 14 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	12.647	11.02	24	PASS
40	5200	13.583	11.33	24	PASS
48	5240	13.335	11.25	24	PASS
52	5260	13.002	11.14	24	PASS
60	5300	13.213	11.21	24	PASS
64	5320	11.272	10.52	24	PASS
100	5500	13.366	11.26	24	PASS
116	5580	13.74	11.38	24	PASS
132	5660	13.614	11.34	24	PASS
140	5700	14.125	11.50	24	PASS
149	5745	12.531	10.98	30	PASS
157	5785	12.706	11.04	30	PASS
165	5825	12.764	11.06	30	PASS

NOTE:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(20.06) = 24.02\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(20.14) = 24.04\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(21.34) = 24.29\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(20.44) = 24.10\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(20.12) = 24.04\text{ dBm} > 24\text{dBm}$.
6. $11\text{dBm} + 10\log(20.32) = 24.08\text{ dBm} > 24\text{dBm}$.
7. $11\text{dBm} + 10\log(20.29) = 24.07\text{ dBm} > 24\text{dBm}$.

802.11ac (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	9.506	9.78	24	PASS
40	5200	10.116	10.05	24	PASS
48	5240	9.333	9.70	24	PASS
52	5260	9.226	9.65	24	PASS
60	5300	11.117	10.46	24	PASS
64	5320	10.351	10.15	24	PASS
100	5500	10.789	10.33	24	PASS
116	5580	10.495	10.21	24	PASS
132	5660	10.568	10.24	24	PASS
140	5700	10.94	10.39	24	PASS
149	5745	9.661	9.85	30	PASS
157	5785	11.143	10.47	30	PASS
165	5825	9.705	9.87	30	PASS

NOTE:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(21.15) = 24.25\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(21.31) = 24.29\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(20.94) = 24.21\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(20.99) = 24.22\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(21.12) = 24.25\text{ dBm} > 24\text{dBm}$.
6. $11\text{dBm} + 10\log(21.00) = 24.22\text{ dBm} > 24\text{dBm}$.
7. $11\text{dBm} + 10\log(21.10) = 24.24\text{ dBm} > 24\text{dBm}$.

802.11ac (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	10.328	10.14	24	PASS
46	5230	9.594	9.82	24	PASS
54	5270	11.376	10.56	24	PASS
62	5310	11.041	10.43	24	PASS
102	5510	10.617	10.26	24	PASS
110	5550	10.328	10.14	24	PASS
134	5670	10.765	10.32	24	PASS
151	5755	9.683	9.86	30	PASS
159	5795	9.29	9.68	30	PASS

NOTE:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(43.20) = 27.35\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(43.67) = 27.40\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(43.08) = 27.34\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(43.40) = 27.37\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(43.77) = 27.41\text{ dBm} > 24\text{dBm}$.

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
42	5210	6.368	8.04	24	PASS
58	5290	5.929	7.73	24	PASS
106	5530	5.97	7.76	24	PASS
155	5775	5.916	7.72	30	PASS

NOTE:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(81.00) = 30.08\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(81.53) = 30.11\text{ dBm} > 24\text{dBm}$.

26dB BANDWIDTH:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)
36	5180	20.33
40	5200	20.18
48	5240	20.66
52	5260	20.06
60	5300	20.14
64	5320	21.34
100	5500	20.44
116	5580	20.12
132	5660	20.32
140	5700	20.29

802.11ac (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)
36	5180	20.93
40	5200	21.00
48	5240	21.08
52	5260	21.15
60	5300	21.31
64	5320	20.94
100	5500	20.99
116	5580	21.12
132	5660	21.00
140	5700	21.10

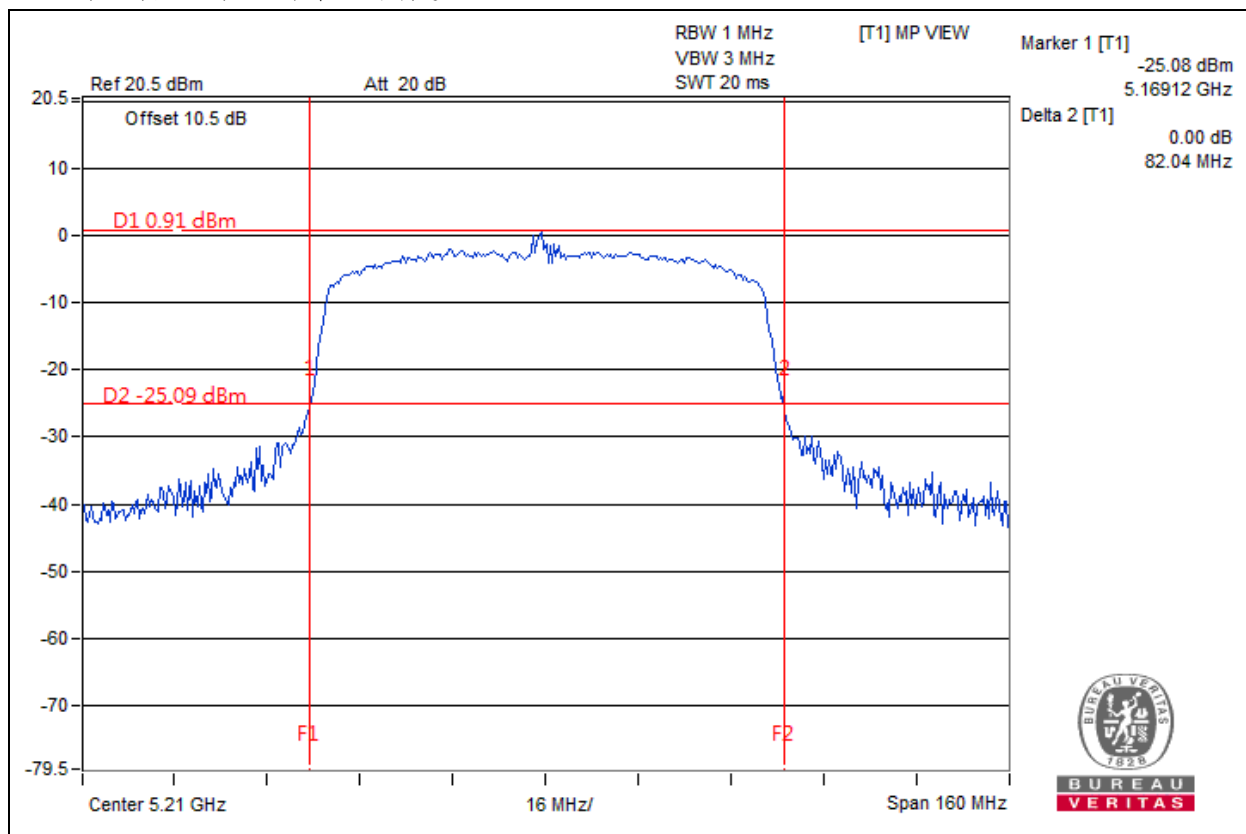
802.11ac (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)
38	5190	45.18
46	5230	43.32
54	5270	43.20
62	5310	43.67
102	5510	43.08
110	5550	43.40
134	5670	43.77

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)
42	5210	82.04
58	5290	81.00
106	5530	81.53

**此測試圖僅放測試結果最差的頻道。



11.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

12 功率頻譜密度之量測

12.1 適用標準

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

12.2 量測方法

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

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-1:

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = power averaging (rms)
- 3) Number of points in sweep $\geq$ 2 x span/RBW.
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value

Using method SA-2:

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

For U-NII-3 band:

The following adjustments to above procedures apply:

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 500 kHz, Set VBW $\geq$ 3 RBW, Detector = RMS
- 3) Sweep time = auto, trigger set to "free run".
- 4) Trace average at least 100 traces in power averaging mode.
- 5) Record the max value and add 10 log (1/duty cycle)

12.3 量測功率頻譜密度之儀器

同 9.3 節。

12.4 功率頻譜密度之測試配置

同 9.4 節

12.5 量測結果

操作模式	發射	測試日期	109 年 2 月 14 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

For U-NII-1, U-NII-2A, U-NII-2C Band 802.11a

CHANNEL	FREQUENCY (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	-3.49	0.12	-3.37	11	PASS
40	5200	-2.92	0.12	-2.80	11	PASS
48	5240	-2.97	0.12	-2.85	11	PASS
52	5260	-3.18	0.12	-3.06	11	PASS
60	5300	-3.50	0.12	-3.38	11	PASS
64	5320	-3.58	0.12	-3.46	11	PASS
100	5500	-2.82	0.12	-2.70	11	PASS
116	5580	-3.08	0.12	-2.96	11	PASS
132	5660	-2.94	0.12	-2.82	11	PASS
140	5700	-2.72	0.12	-2.60	11	PASS

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

802.11ac (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	-4.85	0.17	-4.68	11	PASS
40	5200	-4.47	0.17	-4.30	11	PASS
48	5240	-4.31	0.17	-4.14	11	PASS
52	5260	-4.55	0.17	-4.38	11	PASS
60	5300	-4.06	0.17	-3.89	11	PASS
64	5320	-4.21	0.17	-4.04	11	PASS
100	5500	-4.35	0.17	-4.18	11	PASS
116	5580	-4.33	0.17	-4.16	11	PASS
132	5660	-4.37	0.17	-4.20	11	PASS
140	5700	-3.84	0.17	-3.67	11	PASS

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

802.11ac (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
38	5190	-7.99	0.32	-7.67	11	PASS
46	5230	-7.72	0.32	-7.40	11	PASS
54	5270	-7.02	0.32	-6.70	11	PASS
62	5310	-7.21	0.32	-6.89	11	PASS
102	5510	-7.75	0.32	-7.43	11	PASS
110	5550	-7.65	0.32	-7.33	11	PASS
134	5670	-7.70	0.32	-7.38	11	PASS

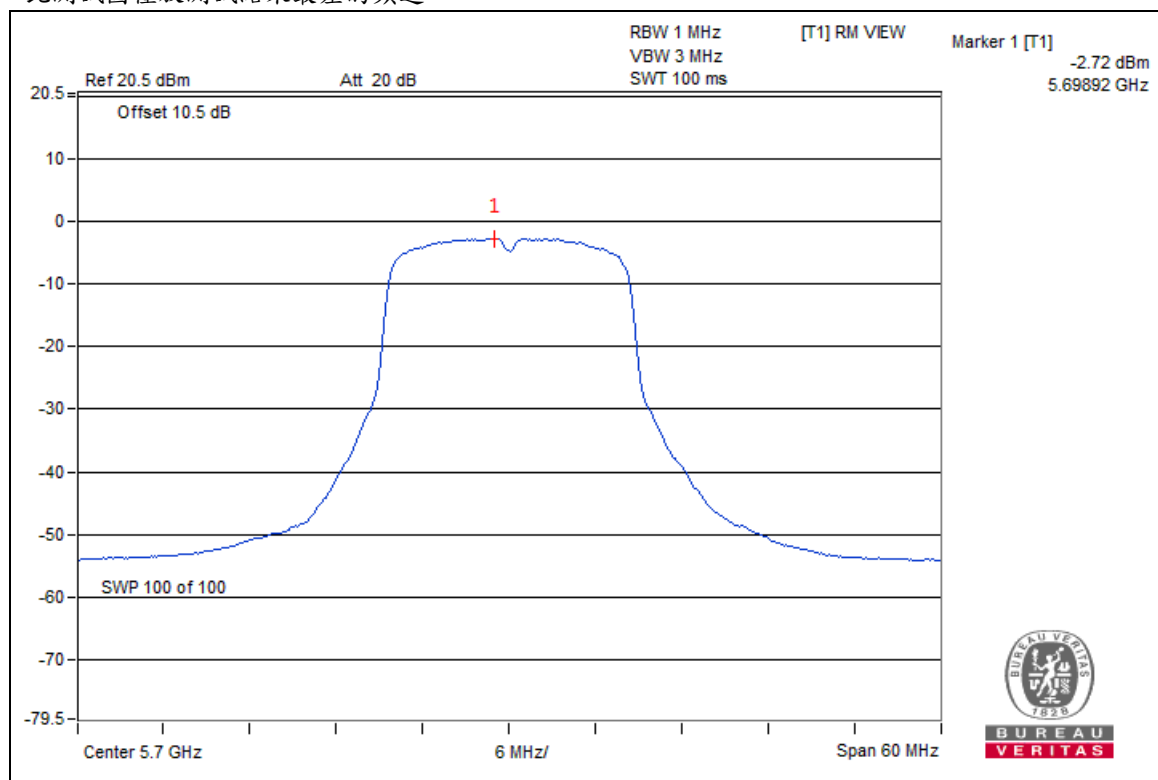
Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (80MHz):

CHANNEL	FREQUENCY (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
42	5210	-13.70	1.24	-12.46	11	PASS
58	5290	-13.42	1.24	-12.18	11	PASS
106	5530	-13.75	1.24	-12.51	11	PASS

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

**此測試圖僅放測試結果最差的頻道。



For U-NII-3 Band

802.11a

Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
149	5745	-11.39	0.12	-11.27	30	PASS
157	5785	-11.69	0.12	-11.57	30	PASS
165	5825	-11.61	0.12	-11.49	30	PASS

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

802.11ac (20MHz)

Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
149	5745	-13.04	0.17	-12.87	30	PASS
157	5785	-12.32	0.17	-12.15	30	PASS
165	5825	-13.06	0.17	-12.89	30	PASS

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

802.11ac (40MHz)

Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
151	5755	-16.93	0.32	-16.61	30	PASS
159	5795	-17.22	0.32	-16.90	30	PASS

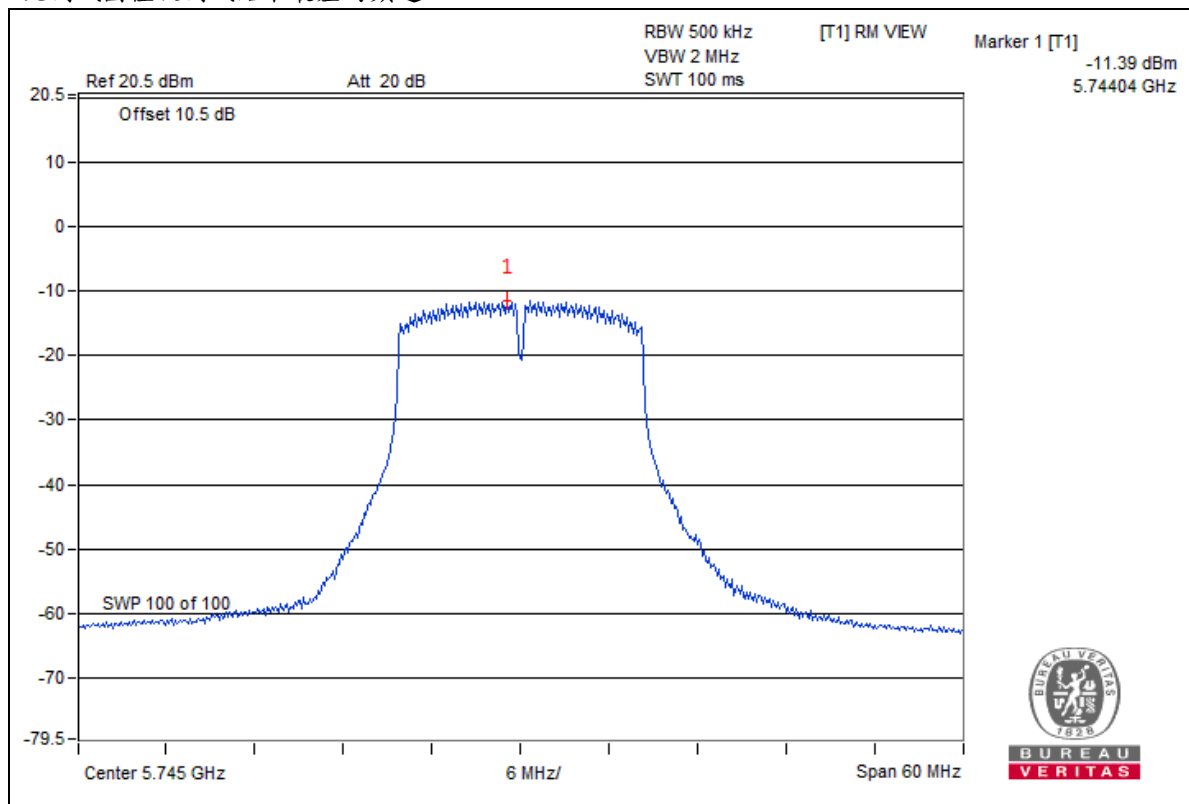
Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (80MHz)

Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
155	5775	-22.36	1.24	-21.12	30	PASS

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

**此測試圖僅放測試結果最差的頻道。



12.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

13 6 dB 頻寬之要求

13.1 適用標準

待測物操作頻帶	適用標準
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 5 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	109 年 2 月 14 日
量測場地溫度	25°C	量測場地濕度	76%RH
測試者	李澤洋		

802.11a

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

802.11ac (20MHz)

Chan.	Freq. (MHz)	6dBc Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
149	5745	15.17	0.5	Pass
157	5785	15.18	0.5	Pass
165	5825	15.20	0.5	Pass

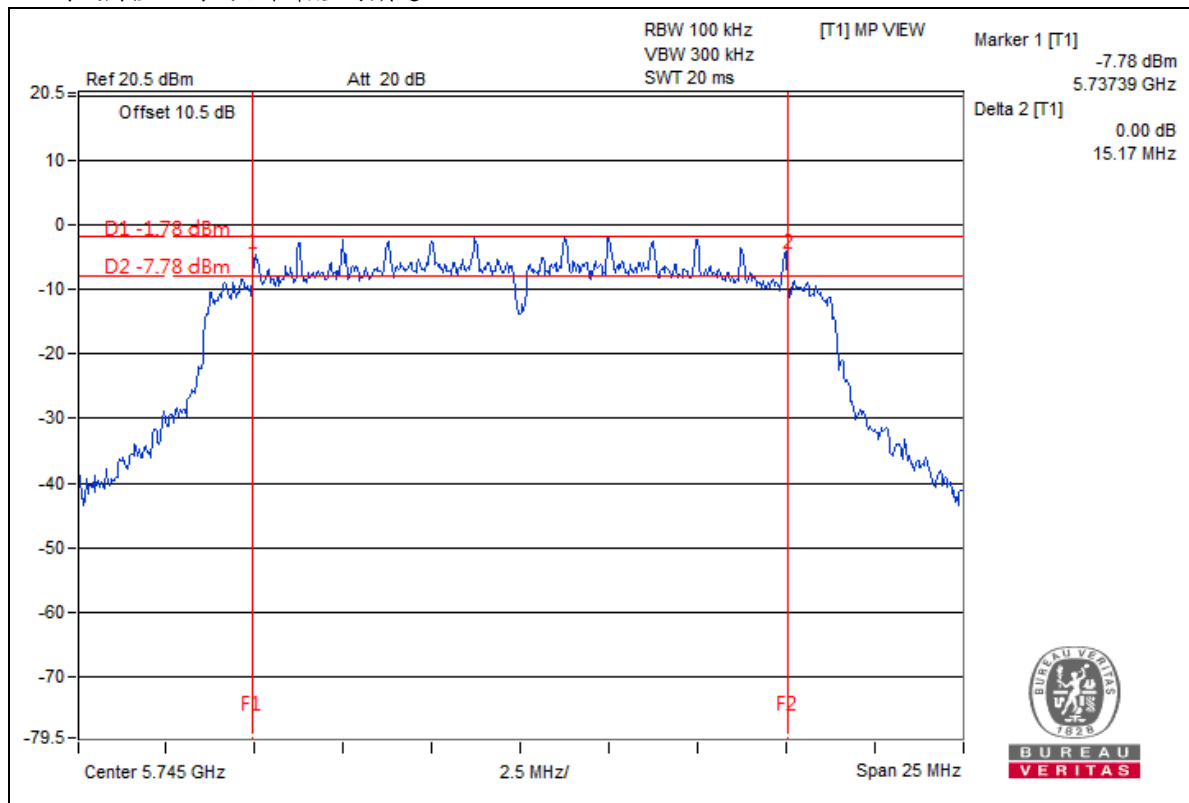
802.11ac (40MHz)

Chan.	Freq. (MHz)	6dBc Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
151	5755	35.19	0.5	Pass
159	5795	35.21	0.5	Pass

802.11ac (80MHz)

Chan.	Freq. (MHz)	6dBc Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
155	5775	75.24	0.5	Pass

**此測試圖僅放測試結果最差的頻道。



13.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

14 電波暴露量之評估

14.1 適用標準

請見本報告 3.1 節第 12 項的規定。

14.2 評估方法

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

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

where

P_d = power density in mW/cm²

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
☒	待測物之發射功率大於 20mW，需進行電波暴露量之評估

Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
2.4GHz Band	15.02	3.19	20	0.0132	1	Pass
5.0GHz Band	11.50	4.20	20	0.0074	1	Pass
BT EDR	6.09	3.19	20	0.0017	1	Pass
BT LE	6.01	3.19	20	0.0017	1	Pass

CONCLUSION:

Both of the WLAN 2.4G & WLAN 5G can transmit simultaneously, the formula of calculated the MPE is:
 $CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4G + BT EDR = 0.0132 + 0.0017 = 0.0149

Therefore, the maximum calculation of this situation is **0.0149**, which is less than the "1" limit.

附錄：動態頻率選擇

1. EUT Information

1.1 Operating Frequency Bands and Mode of EUT

TABLE 1: OPERATING FREQUENCY BANDS AND MODE OF EUT

Operational Mode	Operating Frequency Range	
	5250~5350MHz	5470~5725MHz
Client without radar detection and ad hoc function	✓	✓

1.2 EUT Software and Firmware Version

Table 2: The Eut Software/Firmware Version

No	Product	Model No.	Software/Firmware Version
1	Bose Videobar VB1	433869	3.18.120-perf-g68cbe74-dirty

1.3 Description Of Available Antennas to The EUT

Table 3: Antenna List

ANT No.	Antenna Type	Operation Frequency Range (MHz)	MAX. Gain (dBi)
1	PCB	5250-5350MHz	4.2
2	PCB	5470-5725MHz	4.2

1.4 EUT Maximum Conducted Power

Table 4: The Measured Conducted Output Power

802.11a

ANT No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	11.21	13.213
1	5470~5725	11.50	14.125

802.11ac (20MHz):

ANT No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	10.46	11.117
1	5470~5725	10.39	10.94

802.11ac (40MHz)

ANT No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	10.56	11.376
1	5470~5725	10.32	10.765

802.11ac (80MHz):

ANT No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	7.73	5.929
1	5470~5725	7.76	5.970

1.5 EUT Maximum E.I.R.P. Power

Table 5: The Eirp Output Power List

802.11a

ANT No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	15.41	34.754
1	5470~5725	15.70	37.154

802.11ac (20MHz)

ANT No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	14.66	29.242
1	5470~5725	14.59	28.774

802.11ac (40MHz)

ANT No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	14.76	29.923
1	5470~5725	14.52	28.314

802.11ac (80MHz)

ANT No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	11.93	15.596
1	5470~5725	11.96	15.704

1.6 Transmit Power Control (TPC)

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Maximum EIRP of this device is **37.154** mW which less than 500mW, therefore it's not require TPC function.

TPC	E.I.R.P	FCC 15.407(h)(1)
	> 500mW	The TPC mechanism is required for system with an E.I.R.P. of above 500mW
√	< 500mW	The TPC mechanism is not required for system with an E.I.R.P. of less 500mW

1.7 Statement of Manufacturer

Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user. **And the device doesn't have Ad Hoc mode on DFS frequency band.**

2. U-NII DFS Rule Requirements

2.1 Working Modes and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 6 and 7 for the applicability of DFS requirements for each of the operational modes.

Table 6: Applicability of DFS Requirements Prior To Use a Channel

Requirement	Operational Mode		
	Master	Client without radar detection	Client with radar detection
Non-Occupancy Period	✓	✓ note	✓
DFS Detection Threshold	✓	Not required	✓
Channel Availability Check Time	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓
Note: Per KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 section (b)(5/6), If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear. An analyzer plot that contains a single 30-minute sweep on the original channel.			

Table 7: Applicability of DFS Requirements During Normal Operation.

Requirement	Operational Mode	
	Master or Client with radar detection	Client without radar detection
DFS Detection Threshold	✓	Not required
Channel Closing Transmission Time	✓	✓
Channel Move Time	✓	✓
U-NII Detection Bandwidth	✓	Not required

Additional requirements for devices with multiple bandwidth modes	Master or Client with radar detection	Client without radar detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

2.2 Test Limits And Radar Signal Parameters

Detection Threshold Values

Table 8: DFS Detection Thresholds For Master Devices And Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 9: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Parameters of DFS Test Signals

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 10: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 11: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number Of Pulses Per Burst	Number Of Bursts	Minimum Percentage Of Successful Detection	Minimum Number Of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency.

- a) the Channel center frequency
- b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth
- c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth

It include 10 trails for every subset, the formula as below,

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

$$FL + (0.4 * \text{Chirp Width [in MHz]})$$

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

$$FH - (0.4 * \text{Chirp Width [in MHz]})$$

Table 12: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses PER HOP	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage Of Successful Detection	Minimum Number Of Trials
6	1	333	9	0.333	300	70%	30

3. Test & Support Equipment List

3.1 Test Instruments

Table 13: Test Instruments List

Description & Manufacturer	Model No.	Brand	Date Of Calibration	Due Date Of Calibration
Spectrum analyzer	FSV	R&S	Mar 06, 2019	Mar 05, 2020
Signal generator	MXG	KEYSIGHT	May 20, 2019	May 19, 2020
Horn antenna	BBHA 9120 D1	Schwarzbeck	Nov 24, 2019	Nov. 23, 2020
RF coaxial cable	SUCOFLEX 104	HUBER SUHNER	NA	NA

Note: 1. Tested Date: Mar. 11, 2020

3.2 Description of Support Units

Table 14: Support Unit Information.

No.	Product	Brand	Model No.	Fcc Id	Gain
1	Wireless Router	Access Point	Netgear R6800	PY316200344	5G Ant gain : 2.88dBi Maximum EIRP :28.4dBm

NOTE: This device was functioned as a ☒ Master ☐ Slave device during the DFS test.

Table 15: Software/Firmware Information.

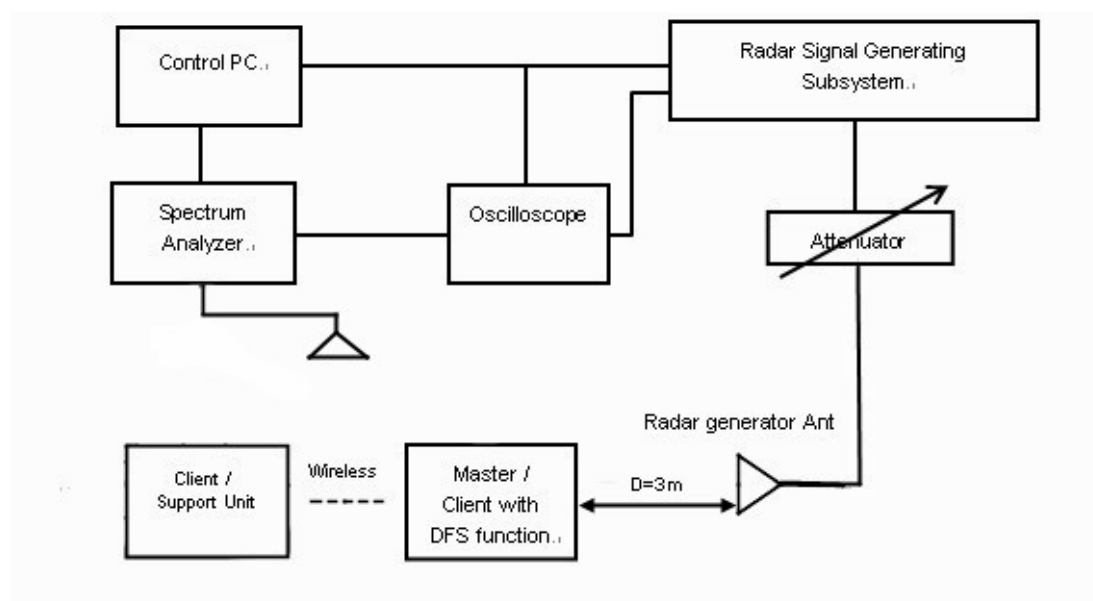
No.	Product	Model No.	Software/Firmware Version
1.	Wireless Router	Netgear R6800	V1.1.034_1.0.1_0418_usdfs

4. Test Procedure

4.1 DFS Measurement System

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating Subsystem and (2) the Traffic Monitoring Subsystem. The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

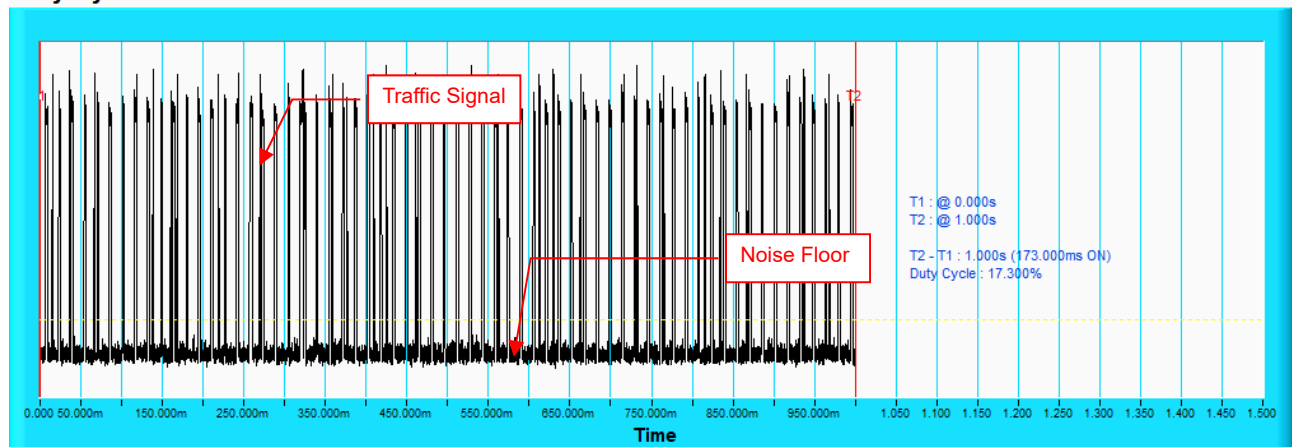
Radiated Setup Configuration of DFS Measurement System



System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

	a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
	b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals.
V	c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.
	d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.

Wireless Traffic Loading Duty Cycle



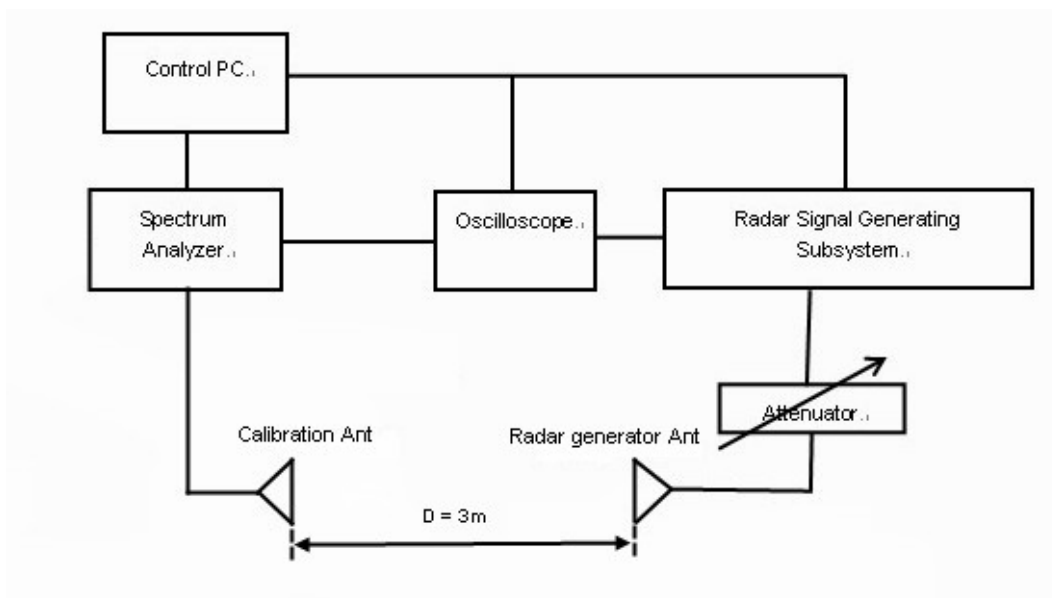
4.2 Calibration of DFS Detection Threshold Level

5. The measured channel is 5500MHz, 5510MHz, 5530MHz. The radar signal was the same as transmitted channels, and injected into the antenna of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The calibrated conducted detection threshold level is set to -64dBm. The tested level is lower than required level hence it provides margin to the limit.

Radiated setup configuration of Calibration of DFS Detection Threshold Level

The radar signal generate system is generating waveform pattern of radar types. The amplitude of the radar signal generator system is adjusted to yield a level of - 64 dBm as measured on the spectrum analyzer.

The interference detection threshold level is lower than - 64dBm hence it provides margin to the limit.

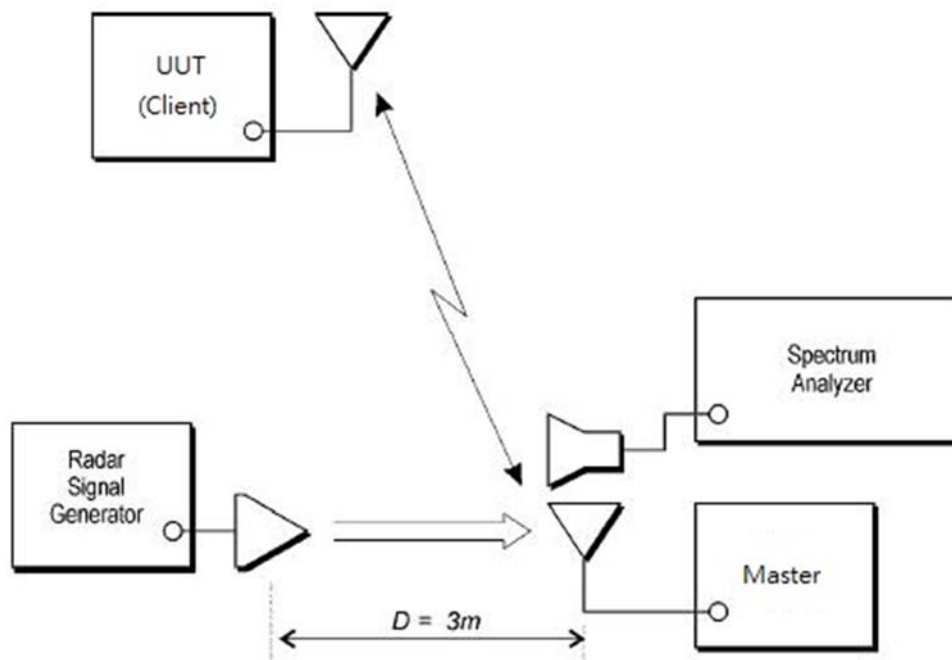


5.1 Deviation From Test Standard

No deviation.

5.2 Radiated Test Setup Configuration

5.2.1 Client Without Radar Detection Mode



6. Test Results

6.1 Summary of Test Results

Clause	Test Parameter	Remarks	Pass/Fail
4.7.7	DFS Detection Threshold	Not Applicable	NA
4.7.7	Channel Availability Check Time	Not Applicable	NA
4.7.7	Channel Move Time	Applicable	Pass
4.7.7	Channel Closing Transmission Time	Applicable	Pass
4.7.7	Non- Occupancy Period	Applicable	Pass
4.7.7	Uniform Spreading	Not Applicable	NA
4.7.7	U-NII Detection Bandwidth	Not Applicable	NA
4.7.7	Non-associated test	Applicable	Pass
4.7.7	Non-Co-Channel test	Applicable	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

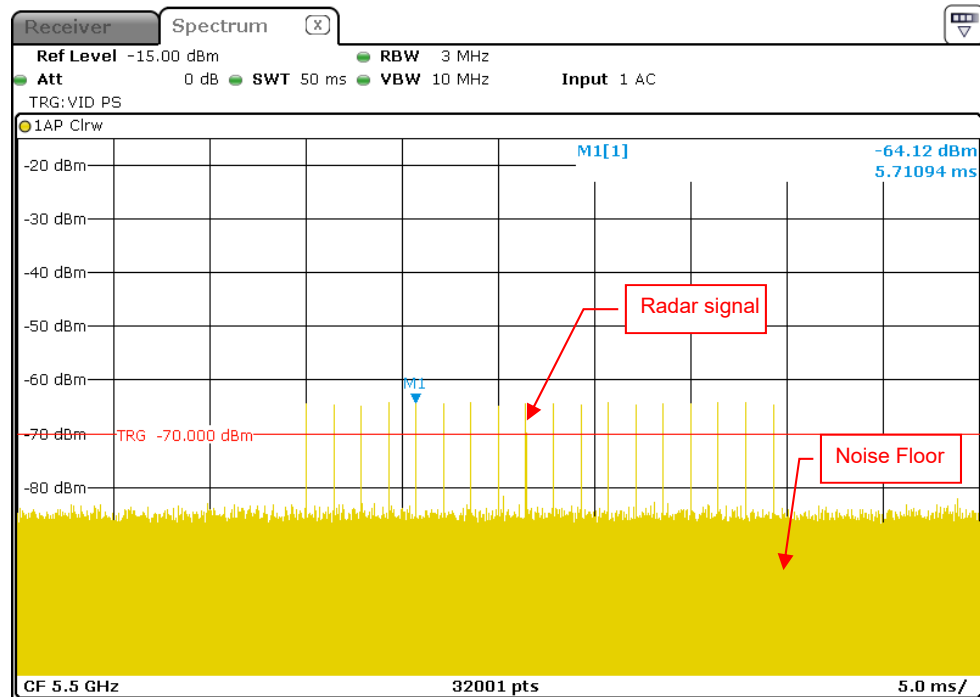
6.2 Test Results

6.2.1 Test Mode: Device Operating In Client Without Radar Detection Mode.

Client with injection at the Master. (The radar test signals are injected into the Master Device)

DFS Detection Threshold

For detection threshold level of -64dBm, the required signal strength at AP antenna location is -64 dBm.



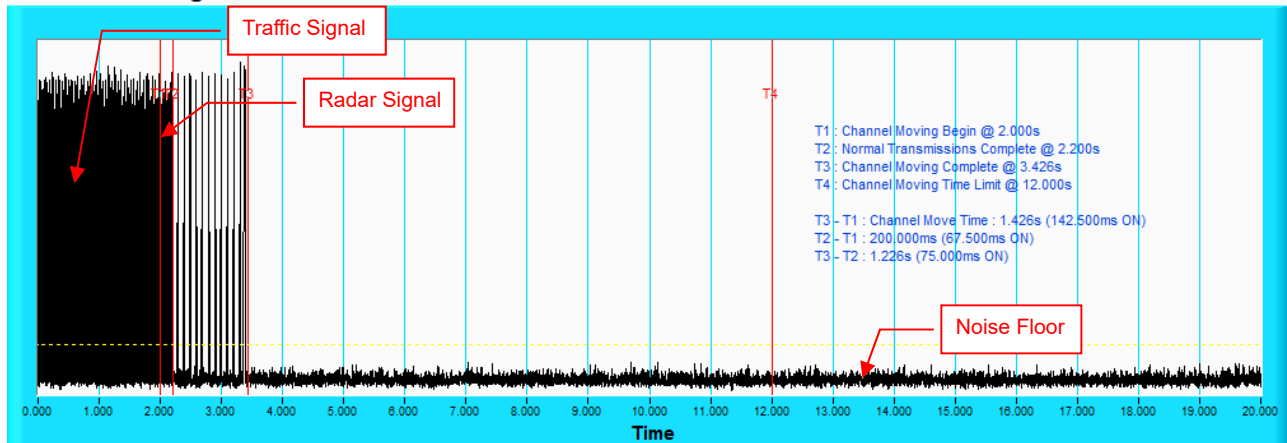
Radar Signal 0

6.2.2 Channel Closing Transmission And Channel Move Time

Radar Signal 0

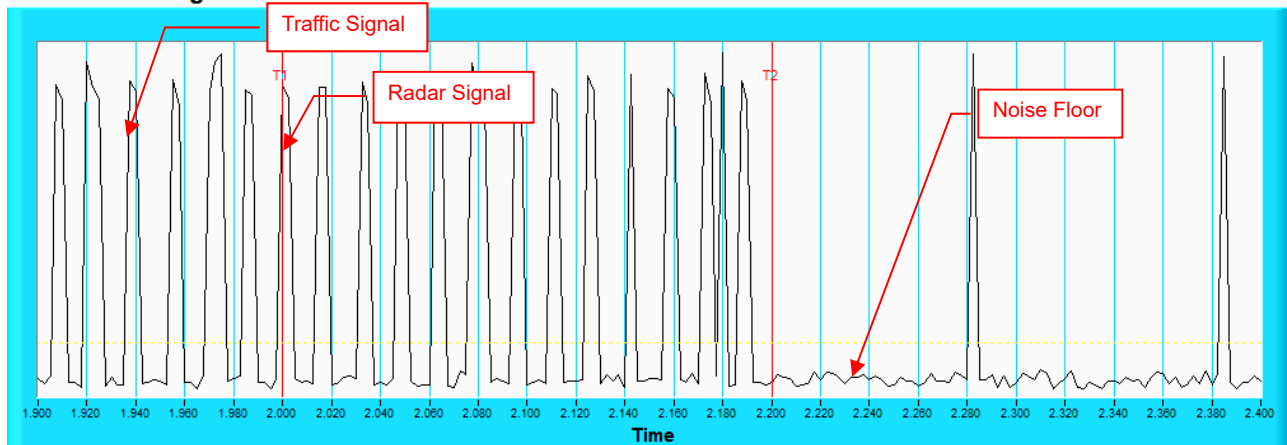
802.11ac (20MHz)

Channel Closing Transmission Time & Channel Move Time



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

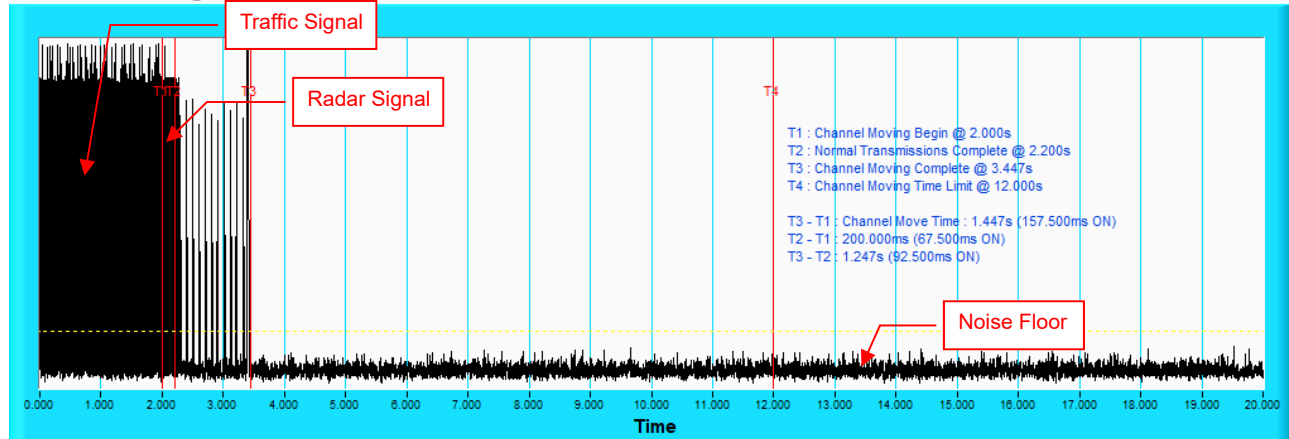
Channel Closing Transmission Time & Channel Move Time



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

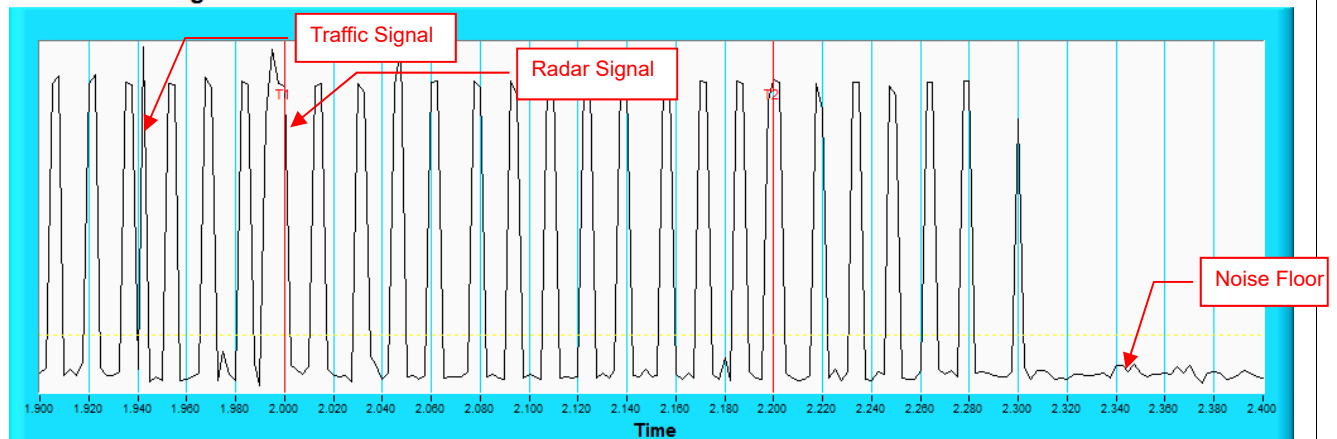
Radar Signal 0 802.11ac (40MHz)

Channel Closing Transmission Time & Channel Move Time



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time

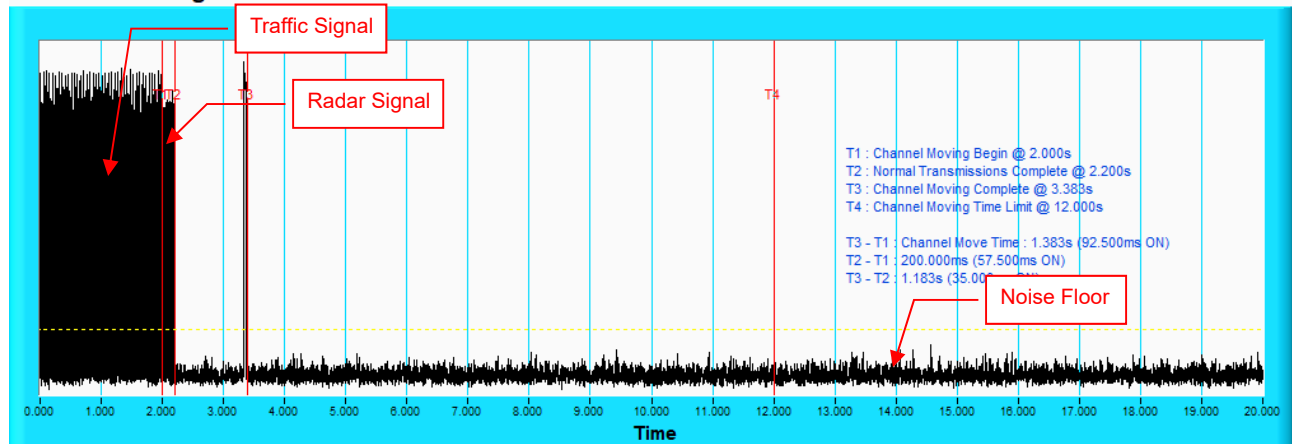


NOTE: An expanded plot for the device vacates the channel in the required 500ms.

Radar Signal 0

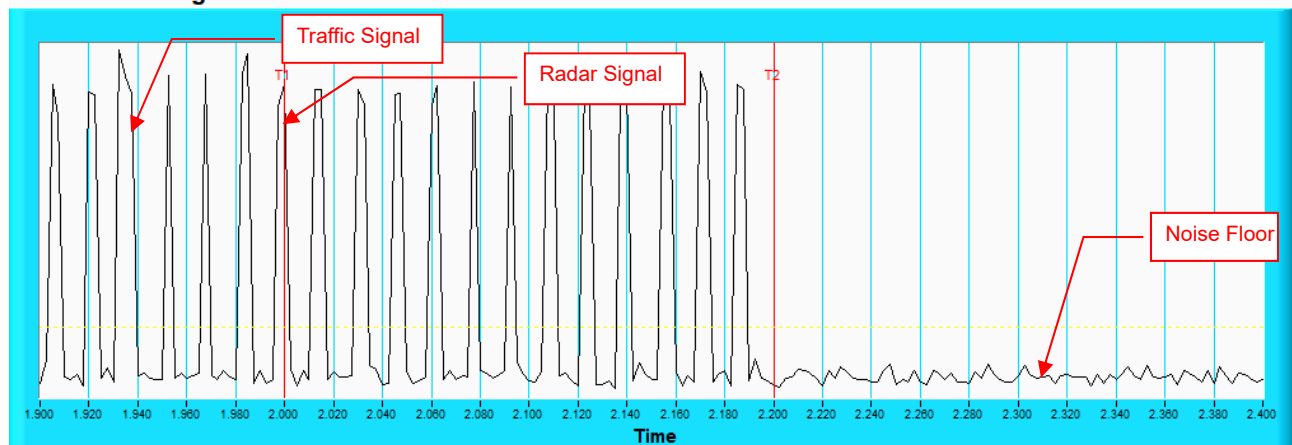
802.11ac (80MHz)

Channel Closing Transmission Time & Channel Move Time



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

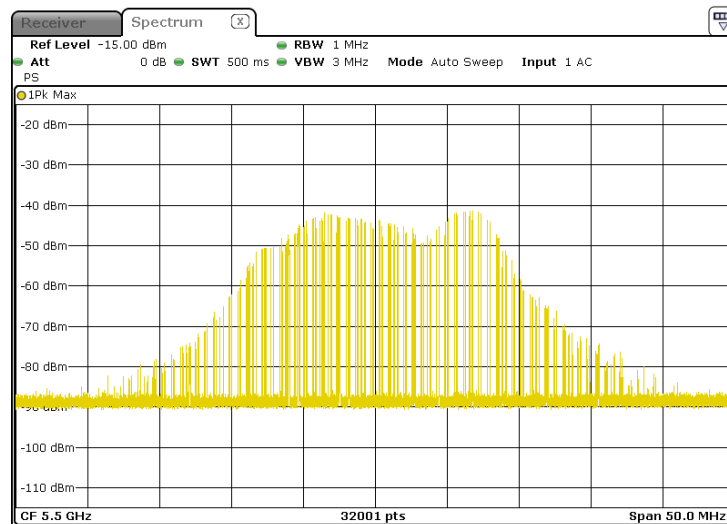
6.2.3 Non-Occupancy Period

Associate test:

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

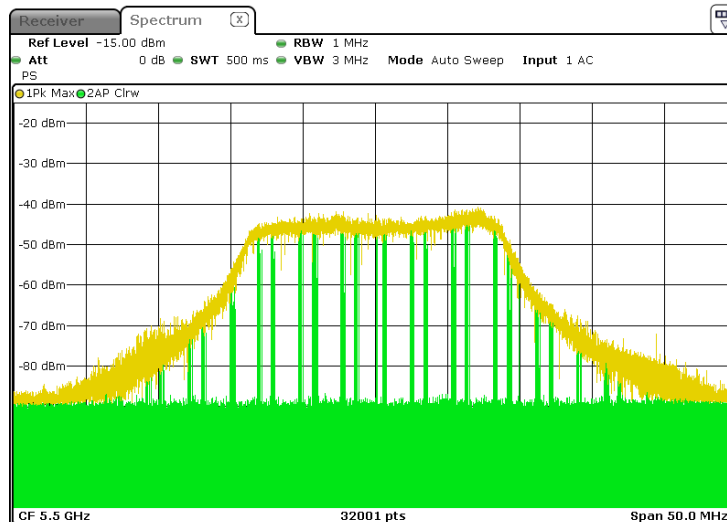
- 1) EUT (Client) links with master on 5500MHz.

Waveform of EUT links up with Master



- 2) Client plays specified files via master.

Waveform of transmission



3) Radar signal 0 is applied to the Master device and WiFi traffic signal stop immediately.

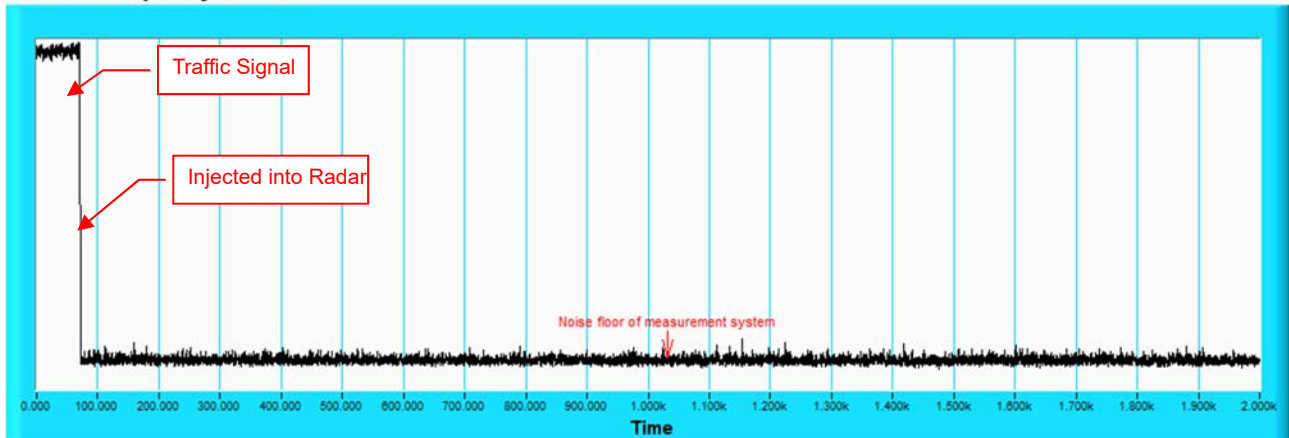
Radar signal applied to the master and traffic stopped as described in section 6.2.2.

4) 5500MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

Plot of 30minutes period

802.11ac (20MHz)

Non - Occupancy Period

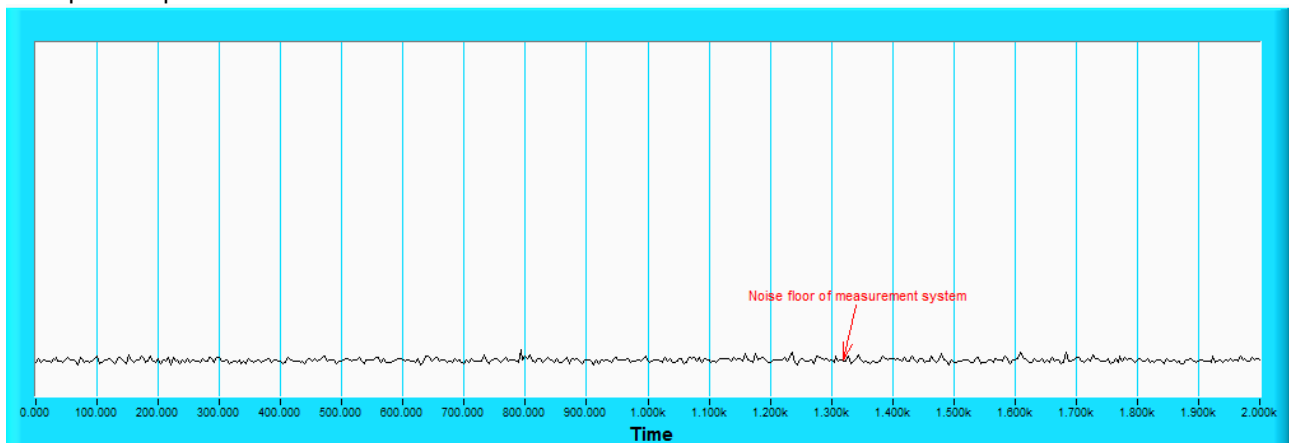


NOTE: Test setup are shown on Test set up photo.pdf

6.2.4 Non-Associated Test

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.



6.2.5 Non- Co-Channel Test

The UUT was investigated after radar was detected and confirmed that no co-channel operation with radars.

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---