

低功率射頻器材技術規範測試報告

報告編號

RTBBQZ-WTW-P20070073

申請者

網件有限公司

產品名稱

無線路由器/無線延伸器

型號

RBR350

系列型號

RBS350

製造廠商

NETGEAR, Inc. /USA

商標或廠牌

NETGEAR

該產品樣品試驗
依據之試驗標準

國家通訊傳播委員會低功率射頻器材技術規範
109 年 7 月 1 日訂定

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 07 月 07 日

報告簽署人簽章:



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報告發行紀錄

Issue No.	Description	Date Issued
RTBBQZ-WTW-P20070073	Original release	109 年 07 月 07 日

證 明 書

發行日期：109 年 07 月 07 日

產 品 名 稱：無線路由器/無線延伸器
商 標：NETGEAR
型 號：RBR350
申 請 者：網件有限公司
量 測 規 範：低功率射頻器材技術規範 LP0002 (訂定日期：109 年 7 月 1 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：RBR350)，
收件日期 109 年 04 月 20 日，於 109 年 04 月 23 日至 109 年 05 月 22 日，在本公司之標準測
試場地完成量測並於 109 年 07 月 01 日取得 FCC 認證，而此案為加作 NCC 低功率射頻器材型式
認證申請。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。

桃園分公司依“低功率射頻器材技術規範”及“電信管制射頻器材審驗管理辦法”製作測試結果報告。

特 此 證 明 ！

報告製作者：

簡佳琪
簡佳琪 / 專員

， 日 期：

109 年 07 月 07 日

審 核 者：

陳志偉
陳志偉 / 高級專案工程師

， 日 期：

109 年 07 月 07 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 低功率射頻器材量測記錄表

申請廠商：網件有限公司

製造廠商：NETGEAR, Inc. /USA

申請廠商地址：台北市內湖區基湖路3巷9號3樓

廠牌：NETGEAR

產品名稱：無線路由器/無線延伸器

型號：RBR350

系列型號：RBS350

量測單位名稱：香港商立德國際商品試驗有限公司桃園分公司

林口實驗室華亞檢測部

量測單位地址：桃園市龜山區文化里華亞二路19號

量測單位認可編號：TAF 2021 (9kHz~40GHz)

量測規範：低功率射頻器材技術規範 LP0002 (訂定日期：109 年 7 月 1 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	電源線傳導干擾	低功率射頻器材技術規範 4.10.1.5 節	合格
2	帶外發射	低功率射頻器材技術規範 3.3 節	合格
3	6 dB 頻寬	低功率射頻器材技術規範 4.10.1.6 節	合格
4	輸出峰值功率	低功率射頻器材技術規範 4.10.1.2 節	合格
5	功率頻譜密度	低功率射頻器材技術規範 4.10.1.6 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	低功率射頻器材技術規範3.3節	合格
2	帶外發射	低功率射頻器材技術規範5.7.4節	合格
3	最大傳導輸出功率	低功率射頻器材技術規範5.7.3.1節	合格
4	最大功率頻譜密度	低功率射頻器材技術規範5.7.3.1節	合格

WLAN 5.725~5.850GHz 頻段概要

項次	量測項目	規 範	量測結果判定
1	電源線傳導干擾	低功率射頻器材技術規範3.3節	合格
2	帶外發射	低功率射頻器材技術規範5.7.4節	合格
3	最大傳導輸出功率	低功率射頻器材技術規範5.7.3.3節	合格
4	最大功率頻譜密度	低功率射頻器材技術規範5.7.3.3節	合格
5	6dB 頻寬	低功率射頻器材技術規範5.7.5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	低功率射頻器材技術規範 6.20.2 節	合格

Note: 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：	無線路由器/無線延伸器
型號：	RBR350
系列型號：	RBS350
額定電源：	12Vdc (adapter)
調變技術：	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA
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 (2.4GHz Band): up to 400Mbps 802.11n (5.0GHz Band): up to 300Mbps 802.11ac: up to 867Mbps 802.11ax (2.4GHz Band): up to 574Mbps 802.11ax (5GHz Band): up to 1200Mbps
載波頻率：	2.4GHz: 2412 ~ 2462MHz 5.0GHz: 5180 ~ 5240MHz, 5745 ~ 5825MHz
頻道數：	2412 ~ 2462MHz: 11 for 802.11b, 802.11g, 802.11n (HT20), 802.11n (VHT20), 802.11ax (HE20) 7 for 802.11n (HT40), 802.11n (VHT40), 802.11ax (HE40) 5180 ~ 5240MHz: 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20) 2 for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40) 1 for 802.11ac (VHT80), 802.11ax (HE80) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20) 2 for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40) 1 for 802.11ac (VHT80), 802.11ax (HE80)

發射功率：	2412 ~ 2462MHz: CDD Mode: 802.11b: 29.75dBm 802.11g: 29.64dBm 802.11n (VHT20): 29.67dBm 802.11n (VHT40): 24.84dBm 802.11ax (HE20): 29.73dBm 802.11ax (HE40): 24.88dBm Beamforming Mode: 802.11n (VHT20): 29.67dBm 802.11n (VHT40): 24.84dBm 802.11ax (HE20): 29.73dBm 802.11ax (HE40): 24.88dBm 5180 ~ 5240MHz: CDD Mode: 802.11a: 29.19dBm 802.11ac (VHT20): 29.18dBm 802.11ac (VHT40): 29.20dBm 802.11ac (VHT80): 24.15dBm 802.11ax (HE20): 29.23dBm 802.11ax (HE40): 29.27dBm 802.11ax (HE80): 24.23dBm Beamforming Mode: 802.11ac (VHT20): 29.18dBm 802.11ac (VHT40): 29.20dBm 802.11ac (VHT80): 24.15dBm 802.11ax (HE20): 29.23dBm 802.11ax (HE40): 29.27dBm 802.11ax (HE80): 24.23dBm 5745 ~ 5825MHz: CDD Mode: 802.11a: 29.32dBm 802.11ac (VHT20): 29.15dBm 802.11ac (VHT40): 29.50dBm 802.11ac (VHT80): 26.66dBm 802.11ax (HE20): 29.21dBm 802.11ax (HE40): 29.59dBm 802.11ax (HE80): 26.71dBm Beamforming Mode: 802.11ac (VHT20): 29.15dBm 802.11ac (VHT40): 29.50dBm 802.11ac (VHT80): 26.66dBm 802.11ax (HE20): 29.21dBm 802.11ax (HE40): 29.59dBm 802.11ax (HE80): 26.71dBm
天線種類：	見註 3
電源線類別：	NA
信號線類別：	NA
配件：	Adapter

註 1: 所有型號與型號差異詳列如下，經評估後，以型號: RBR350 為最差測試模式，故以此模式進行最終量測。

Brand	Product Name	Model	Difference
NETGEAR	無線路由器	RBR350	Function: Master Ethernet ports x 4
	無線延伸器	RBS350	Function: Master + Client Ethernet ports x 2

註 2: 此待測物之技術的種類為2Tx / 2Rx之組合。

2.4GHz Band		
Modulation Mode	TX Function	Beamforming
802.11b	2TX	Not Support
802.11g	2TX	Not Support
802.11n (HT20)	2TX	Support
802.11n (HT40)	2TX	Support
802.11n (VHT20)	2TX	Support
802.11n (VHT40)	2TX	Support
802.11ax (HE20)	2TX	Support
802.11ax (HE40)	2TX	Support
5.0GHz Band		
Modulation Mode	TX Function	Beamforming
802.11a	2TX	Not Support
802.11n (HT20)	2TX	Support
802.11n (HT40)	2TX	Support
802.11ac (VHT20)	2TX	Support
802.11ac (VHT40)	2TX	Support
802.11ac (VHT80)	2TX	Support
802.11ax (HE20)	2TX	Support
802.11ax (HE40)	2TX	Support
802.11ax (HE80)	2TX	Support

* For 2.4GHz & 5GHz band, CDD mode is the worst case for final radiated emission below 1GHz and power line conducted emission tests after pretesting CDD mode and beamforming mode.

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11ac mode and HE20/HE40 on 802.11ax mode. The bandwidth and modulation are similar for VHT80 on 802.11ac mode and HE80 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer note 9)

註 3: 此待測設備搭配測試的天線，其資料如下：

Ant. Type	Dipole		
Connector Type	I-PEX		
Brand	Galtronics		
Model	Ant 1(1st): 02102140-07260-2 Ant 1(2nd): 02102140-07260-4 Ant 2: 02102140-07260-1		
Antenna Gain (dBi)			
Item	2.4G	5G Band 1	5G Band 4
Ant 1(1st)	2.98	3.00	2.95
Ant 1(2nd)	2.98	2.22	2.81
Ant 2	1.76	3.00	2.41

*Antenna 1(1st) & Ant 2 were chosen for final test and presented in the test report

*上述天線的規格資訊由申請者聲明，實驗室不承擔任何責任。

註 4: 待測設備使用以下配件。

*本案器材以申請者切結提供的隨貨配件及不隨貨配件，與實驗室提供的測試配件併同檢測。(BV CPS報告編號: BBQZ-WTW-P20070073_SU)

隨貨配件					
配件	廠牌	型號	規格		備註
RJ45 cable	NETGEAR	312-10133-01	1.95m non-shielded without core		申請者提供
不隨貨配件					
配件	廠牌	型號	序號	規格	備註
LAN cable	AMP NETCONNECT	RN11060081	01	1.5m non-shielded without core	實驗室提供
LAN cable	AMP NETCONNECT	RN11060081	02	7.0m non-shielded without core	實驗室提供

註 5: 此待測設備搭配使用之電源供應器如下:

Adapter 1	
Brand	NETGEAR
Model	AD2076F10
P/N	332-11079-01
Input Power	100-120Vac, 50/60Hz, 0.56A
Output Power	12Vdc, 1.5A
Power Line	1.8m power cable without core attached on adapter

Adapter 2	
Brand	NETGEAR
Model	2ABB018F 1
P/N	332-11508-01
Input Power	100-120Vac, 50/60Hz, 0.6A
Output Power	12.0Vdc, 1.5A
Power Line	1.8m power cable without core attached on adapter

* After pre-test, adapter 1 was chosen for final test and presented in the test report.

註 6: The EUT has two different solutions by absorber on PCB, and the Option A was the worst case for final test.

Option	Solution	Remark
Option A	PCB without absorber	-
Option B	PCB with absorber	Different absorber position
Option C	PCB with absorber	Different absorber position
Option D	PCB with absorber	Different absorber position

*The detail information please refer to "Internal Photo"

註 7: The EUT has two different pin-to-pin FEM in 2.4G module, after pretest the mode 1 was the worst case for final test.

Mode	Description
1	1st 2.4G FEM
2	2nd 2.4G FEM

*The detail information please refer to "Internal Photo"

註 8: WLAN 2.4GHz & WLAN 5GHz technology can transmit at same time.

註 9: 此報告中，場強輻射量測經過評估後以下列測試模式進行最終量測。

載波頻率	量測項目	發射	接收
2412 ~ 2462MHz			
場強輻射量測	1GHz 以上量測	802.11b: Ch 1, 6, 11 802.11g: Ch 1, 6, 11 802.11ax (HE20): Ch 1, 6, 11 802.11ax (HE40): Ch 3, 6, 9	802.11b: Ch 6
	輸出峰值功率之量測	802.11b: Ch 1, 6, 11 802.11g: Ch 1, 6, 11 802.11n (VHT20): Ch 1, 6, 11 802.11n (VHT40): Ch 3, 6, 9 802.11ax (HE20): Ch 1, 6, 11 802.11ax (HE40): Ch 3, 6, 9	-
	其它不必要之訊號	802.11b: Ch 6	
電源線傳導干擾		802.11b: Ch 6	
5180 ~ 5240MHz & 5745 ~ 5825MHz			
場強輻射量測	1GHz 以上量測	802.11a: Ch 36, 40, 48, 149, 157, 165 802.11ax (HE20): Ch 36, 40, 48, 149, 157, 165 802.11ax (HE40): Ch 38, 46, 151, 159 802.11ax (HE80): Ch 42, 155	802.11ax (HE20): Ch 165
	輸出峰值功率之量測	802.11a: Ch 36, 40, 48, 149, 157, 165 802.11ac (VHT20): Ch 36, 40, 48, 149, 157, 165 802.11ac (VHT40): Ch 38, 46, 151, 159 802.11ac (VHT80): Ch 42, 155 802.11ax (HE20): Ch 36, 40, 48, 149, 157, 165 802.11ax (HE40): Ch 38, 46, 151, 159 802.11ax (HE80): Ch 42, 155	-
	其它不必要之訊號	802.11ax (HE20): Ch 165	
電源線傳導干擾		802.11ax (HE20): Ch 165	
Co-located			
場強輻射量測	1GHz 以上量測 & 其它不必要之訊號	802.11b CH 6 + 802.11ax (HE20) CH 165	

註 10: 此待測設備僅能以直立方式擺放，故以此擺放方式進行最終量測，並將測試結果紀錄。

註 11: Duty cycle of test signal.

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

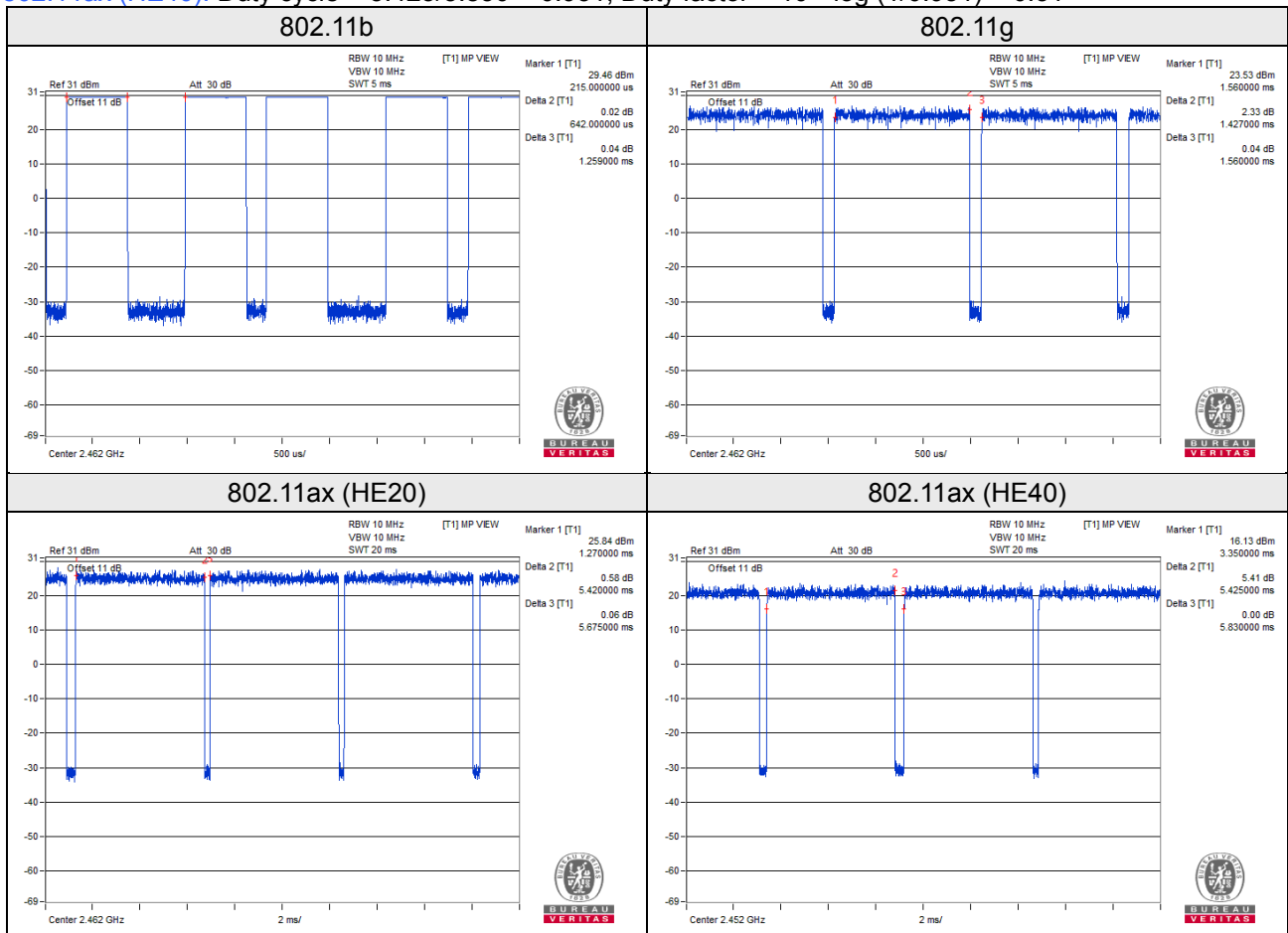
2.4GHz Band:

802.11b: Duty cycle = $0.642/1.259 = 0.510$, Duty factor = $10 * \log(1/0.510) = 2.92$

802.11g: Duty cycle = $1.427/1.560 = 0.915$, Duty factor = $10 * \log(1/0.915) = 0.39$

802.11ax (HE20): Duty cycle = $5.420/5.675 = 0.955$, Duty factor = $10 * \log(1/0.955) = 0.20$

802.11ax (HE40): Duty cycle = $5.425/5.830 = 0.931$, Duty factor = $10 * \log(1/0.931) = 0.31$



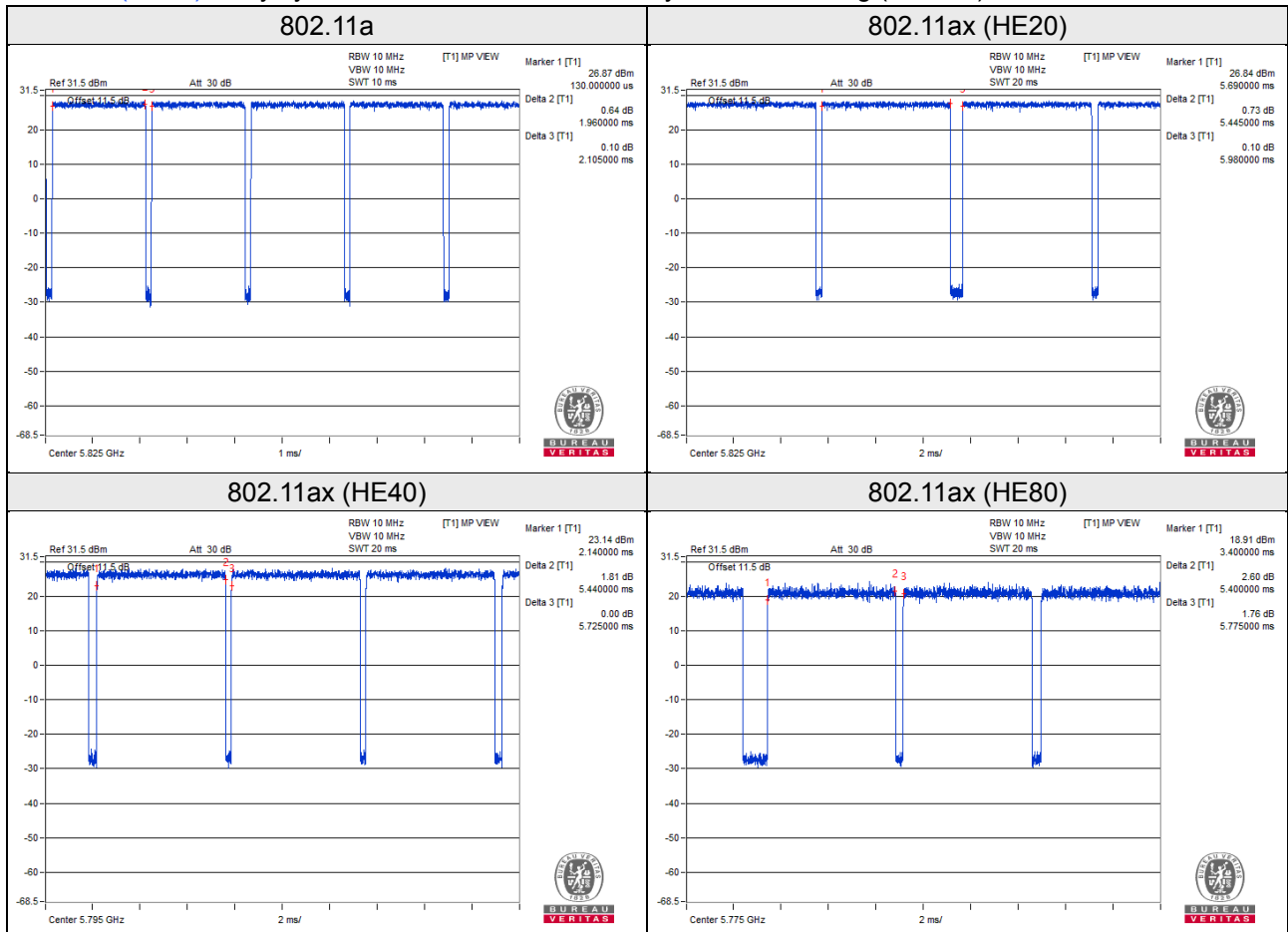
5180~5240MHz & 5745~5825MHz

802.11a: Duty cycle = $1.960/2.105 = 0.931$, Duty factor = $10 * \log(1/0.931) = 0.31$

802.11ax (HE20): Duty cycle = $5.445/5.980 = 0.911$, Duty factor = $10 * \log(1/0.911) = 0.41$

802.11ax (HE40): Duty cycle = $5.440/5.725 = 0.950$, Duty factor = $10 * \log(1/0.950) = 0.22$

802.11ax (HE80): Duty cycle = $5.400/5.775 = 0.935$, Duty factor = $10 * \log(1/0.935) = 0.29$



此裝置各頻道的中心頻率如下：

2.4 GHz 頻段：

802.11b, 802.11g, 802.11n (HT20), 802.11n (VHT20), 802.11ax (HE20):

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

802.11n (HT40), 802.11n (VHT40), 802.11ax (HE40):

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 频段:

802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

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

802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

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

802.11ac (VHT80), 802.11ax (HE80):

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

詳細之規格請參考使用說明書。產品的照片請參照 BVCPS 報告編號: BBQZ-WTW-P20070073

2.2 輔助測試之週邊設備描述

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

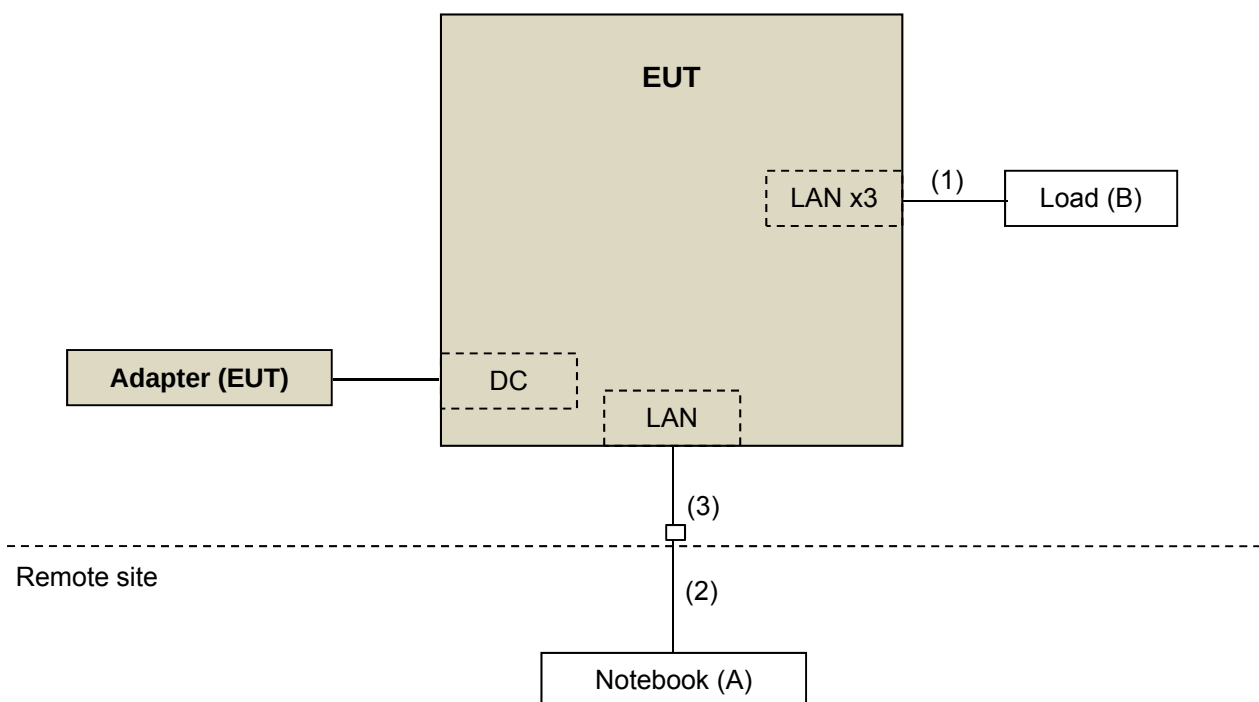
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-
B.	Load	NA	NA	NA	NA	-

Note:

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

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN cable	3	1.5	N	0	Provided by lab RJ45, Cat5e
2.	LAN cable	1	7	N	0	Provided by lab RJ45, Cat5e
3.	RJ45 cable	1	1.95	N	0	Accessory of EUT RJ45, Cat5e

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器材技術規範之 3.3 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器材技術規範 4.10.1.5 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 4.10.1.2(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器材技術規範 5.7.4.1 節之要求，帶外發射之有效等向輻射功率(EIRP)≤-27 dBm/MHz。

(III) 操作於 5.725 GHz~5.850 GHz 頻段:

依據國家通訊傳播委員會低功率射頻器材技術規範 5.7.4.2 節之要求，所有頻帶邊緣向外 5 MHz 內頻率之發射，有效等向輻射功率(EIRP)≤27 dBm/MHz~15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外 5 MHz~25 MHz，有效等向輻射功率 35(EIRP)≤15.6 dBm/MHz~10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外 25 MHz~75 MHz，有效等向輻射功率(EIRP)≤10 dBm/MHz~-27 dBm/MHz(以線性法計算對應之限制值)；所有頻帶邊緣外≥75 MHz 的頻率之發射，有效等向輻射功率(EIRP)≤-27 dBm/MHz；有關遮罩限制值詳圖 1。

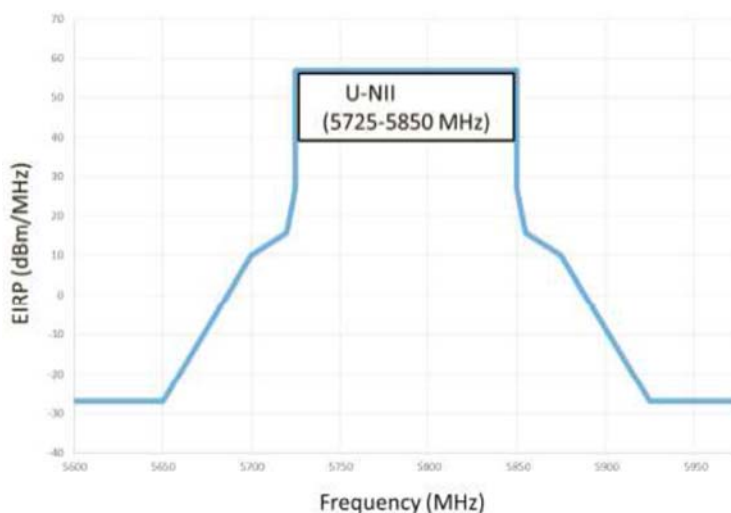


圖 1

在 1 GHz 以下不必要之發射，應符合 3.6 之規定。此外，落於 3.5 禁用頻段之輻射發射，應符合 3.6 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 3.2 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器材技術規範 4.10.1.3 節及 5.7.3 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4.10.1.2 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器材技術規範 4.10.1.6 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器材技術規範 5.7.5 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器材技術規範 4.10.1.2 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器材技術規範 5.7.3.1 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器材技術規範5.7.3.2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器材技術規範 5.7.3.3 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器材技術規範 4.10.1.6 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 4.10.1.3 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器材技術規範 5.7.3.1 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器材技術規範5.7.3.2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器材技術規範 5.7.3.3 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器材技術規範5.7.7.1及5.7.7.2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器材技術規範5.7.7.3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器材技術規範 5.7.7.4 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器材技術規範 5.7.7.5 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器材技術規範 6.20.2 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：百萬赫(MHz)。

(2) 一般人/不可控制之暴露

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

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

參考國際標準指南

KDB 558074
KDB 662911
KDB 789033

3.2 限制使用之頻帶

除本規範另有規定外，任何低功率射頻器材之主波皆不得使用下表所列各頻段之頻率；低功率射頻器材落於下表所列頻段之混附發射，其電場強度必須符合 3.6 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	

2.4GHz 頻段測試紀錄結果

4 帶外發射之量測

4.1 適用標準

請見本報告3.1節第2項(I)的規定。

4.2 量測方法

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

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

4.3 量測儀器

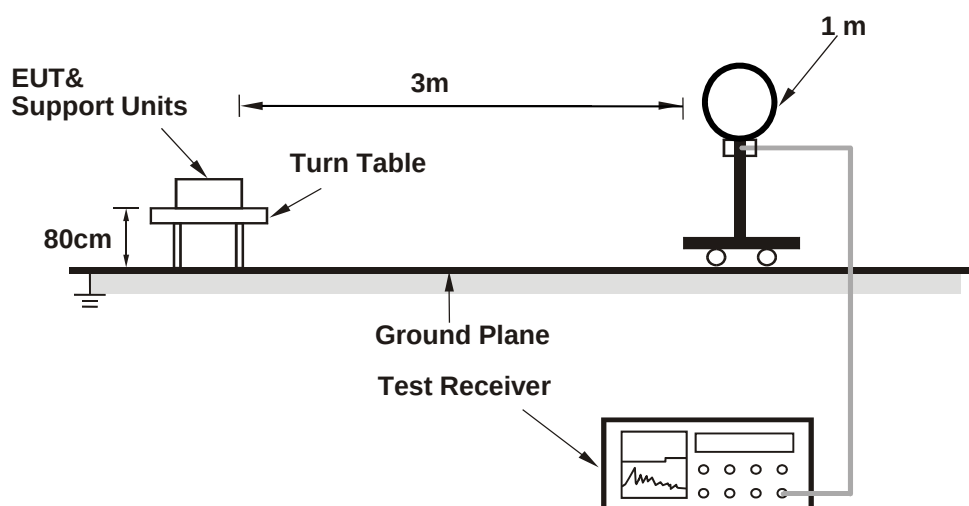
Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Dec. 31, 2019	Dec. 30, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 23, 2019	Sep. 22, 2020
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 11, 2019	Nov. 10, 2020
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Loop Antenna TESEQ	HLA 6121	45745	Jul. 01, 2019	Jun. 30, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Jul. 11, 2019	Jul. 10, 2020
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jun. 11, 2019	Jun. 10, 2020
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH4-01	Aug. 20, 2019	Aug. 19, 2020
RF Coaxial Cable EMCI	EMC102-KM-KM-3000	150929	Aug. 20, 2019	Aug. 19, 2020
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Aug. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Jul. 11, 2019	Jul. 10, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Jul. 11, 2019	Jul. 10, 2020
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 05, 2019	Sep. 04, 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 HwaYa Chamber 4.
3. 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 $k=2$.

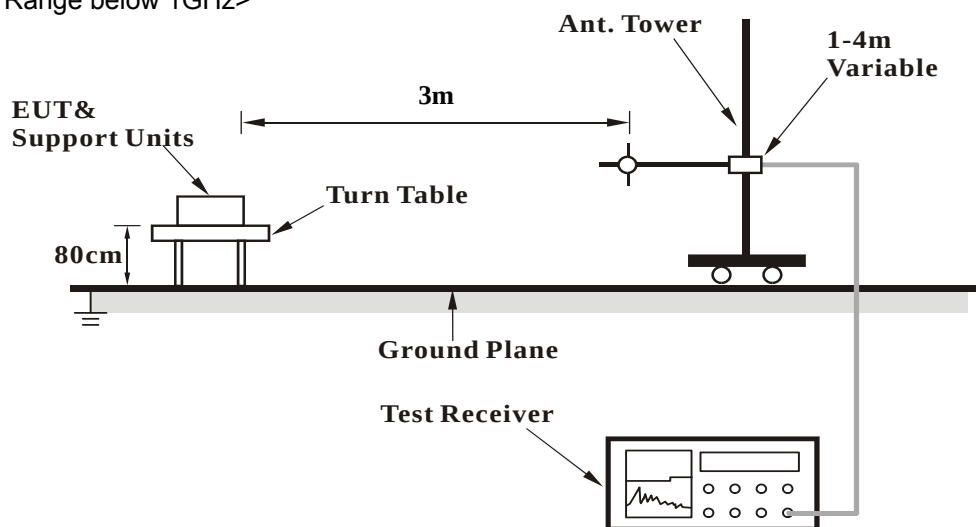
Measurement	Frequency	Uncertainty
Radiated emissions	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

4.4 測試配置

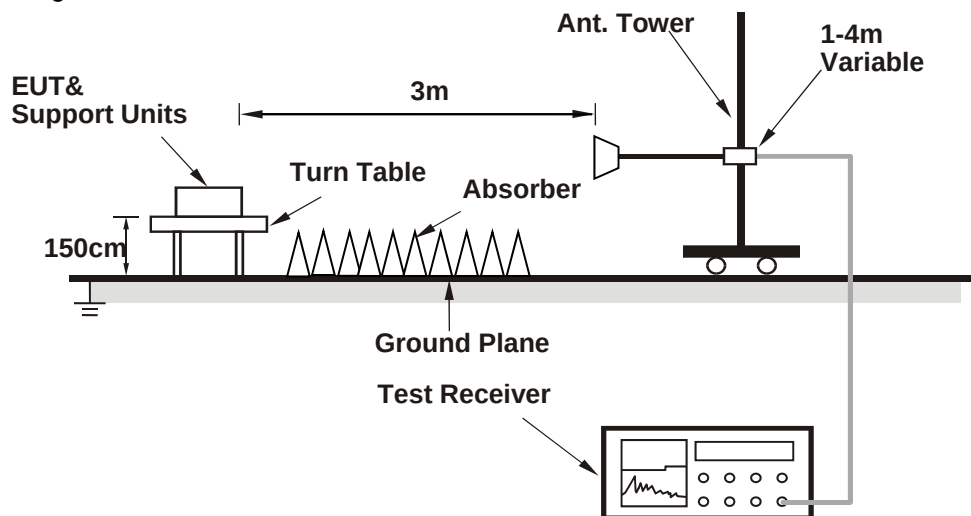
<Frequency Range below 30MHz>



<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



4.5 場強度之計算

場強之計算公式如下：

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

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

量測結果請見下頁。

4.6 量測結果

4.6.1 發射諧波

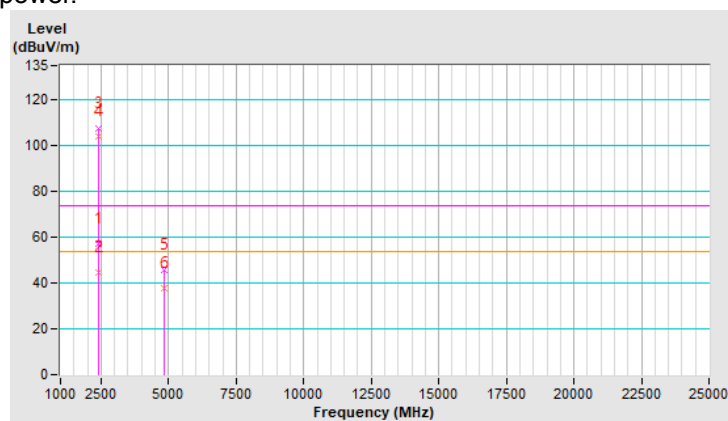
802.11b

操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	2388.00	57.3 PK	74.0	-16.7	1.95 H	123	25.0	32.3
2	2388.00	44.7 AV	54.0	-9.3	1.95 H	123	12.4	32.3
3	*2412.00	107.8 PK			1.95 H	123	75.5	32.3
4	*2412.00	103.9 AV			1.95 H	123	71.6	32.3
5	4824.00	45.7 PK	74.0	-28.3	1.53 H	18	42.3	3.4
6	4824.00	37.6 AV	54.0	-16.4	1.53 H	18	34.2	3.4
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

REMARKS:

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

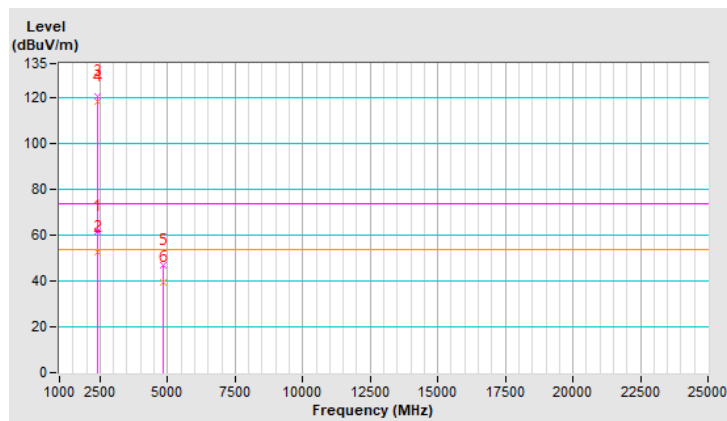


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2386.00	62.0 PK	74.0	-12.0	1.85 V	33	29.7	32.3
2	2386.00	52.9 AV	54.0	-1.1	1.85 V	33	20.6	32.3
3	*2412.00	120.7 PK			1.85 V	33	88.4	32.3
4	*2412.00	118.3 AV			1.85 V	33	86.0	32.3
5	4824.00	46.9 PK	74.0	-27.1	1.64 V	172	43.5	3.4
6	4824.00	39.4 AV	54.0	-14.6	1.64 V	172	36.0	3.4
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

REMARKS:

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

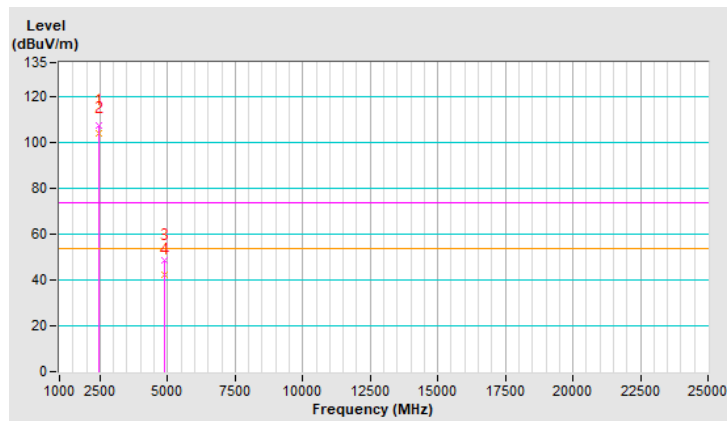


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	107.7 PK			1.77 H	128	75.4	32.3
2	*2437.00	103.9 AV			1.77 H	128	71.6	32.3
3	4874.00	48.4 PK	74.0	-25.6	1.77 H	18	44.7	3.7
4	4874.00	42.3 AV	54.0	-11.7	1.77 H	18	38.6	3.7
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

REMARKS:

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

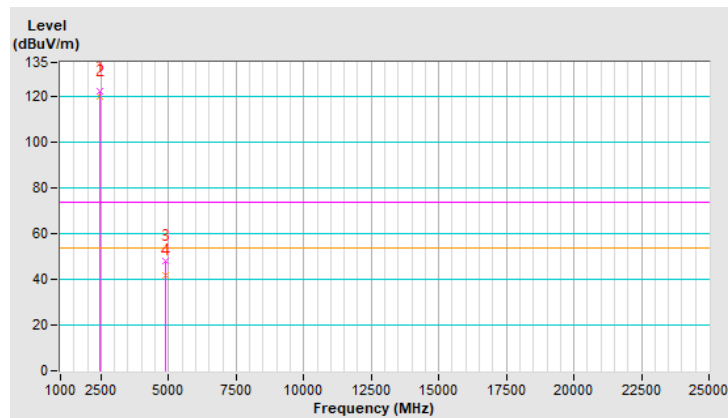


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	122.3 PK			2.09 V	32	90.0	32.3
2	*2437.00	120.0 AV			2.09 V	32	87.7	32.3
3	4874.00	48.1 PK	74.0	-25.9	1.53 V	173	44.4	3.7
4	4874.00	41.8 AV	54.0	-12.2	1.53 V	173	38.1	3.7
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

REMARKS:

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

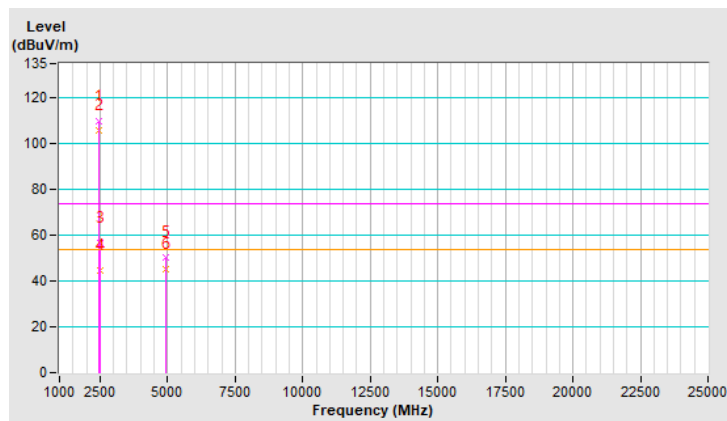


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	109.8 PK			2.01 H	129	77.4	32.4
2	*2462.00	105.8 AV			2.01 H	129	73.4	32.4
3	2483.50	56.6 PK	74.0	-17.4	2.01 H	129	24.2	32.4
4	2483.50	44.7 AV	54.0	-9.3	2.01 H	129	12.3	32.4
5	4924.00	50.2 PK	74.0	-23.8	1.80 H	14	46.4	3.8
6	4924.00	45.1 AV	54.0	-8.9	1.80 H	14	41.3	3.8
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

REMARKS:

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

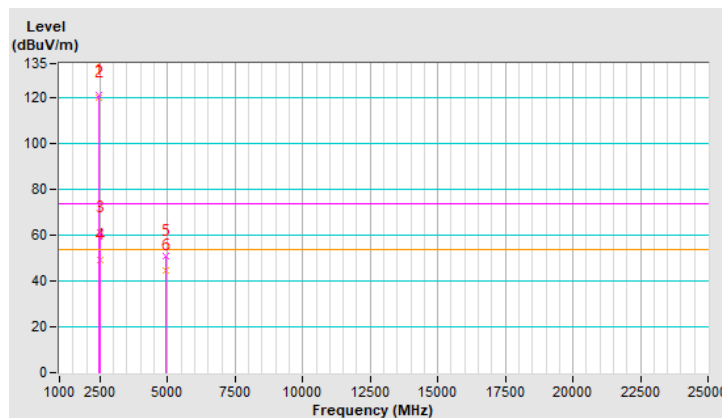


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	121.5 PK			1.61 V	30	89.1	32.4
2	*2462.00	120.2 AV			1.61 V	30	87.8	32.4
3	2483.50	61.4 PK	74.0	-12.6	1.61 V	30	29.0	32.4
4	2483.50	49.2 AV	54.0	-4.8	1.61 V	30	16.8	32.4
5	4924.00	50.7 PK	74.0	-23.3	1.46 V	174	46.9	3.8
6	4924.00	44.8 AV	54.0	-9.2	1.46 V	174	41.0	3.8
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

REMARKS:

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



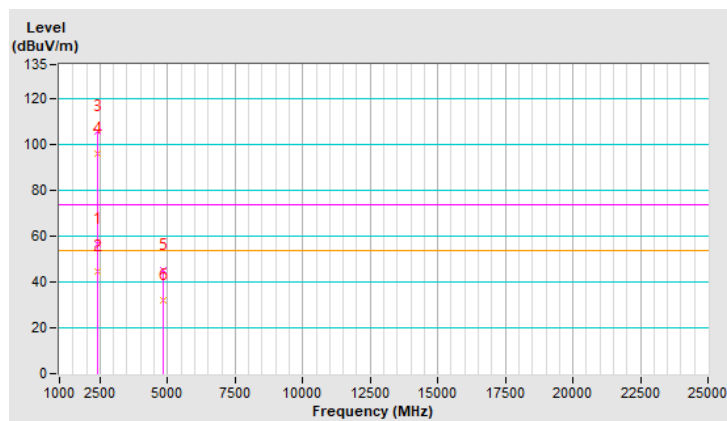
802.11g

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=1kHz
量 測 場 地 溫 度 :	23°C	量 測 場 地 濕 度 :	66%RH
測 試 日 期 :	109 年 04 月 24 日	測 試 者 :	許偉信

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	56.4 PK	74.0	-17.6	1.65 H	201	24.1	32.3
2	2390.00	44.7 AV	54.0	-9.3	1.65 H	201	12.4	32.3
3	*2412.00	105.8 PK			1.65 H	201	73.5	32.3
4	*2412.00	96.2 AV			1.65 H	201	63.9	32.3
5	4824.00	45.2 PK	74.0	-28.8	3.11 H	169	41.8	3.4
6	4824.00	32.3 AV	54.0	-21.7	3.11 H	169	28.9	3.4
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

REMARKS:

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

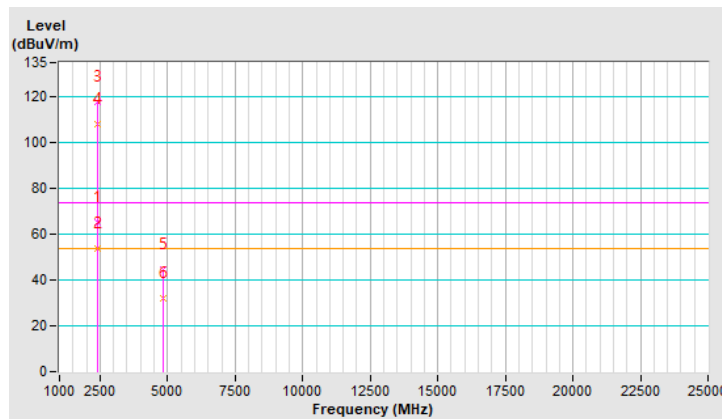


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	65.3 PK	74.0	-8.7	1.09 V	351	33.0	32.3
2	2390.00	53.7 AV	54.0	-0.3	1.09 V	351	21.4	32.3
3	*2412.00	118.0 PK			1.09 V	351	85.7	32.3
4	*2412.00	108.4 AV			1.09 V	351	76.1	32.3
5	4824.00	44.9 PK	74.0	-29.1	1.70 V	182	41.5	3.4
6	4824.00	31.9 AV	54.0	-22.1	1.70 V	182	28.5	3.4
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

REMARKS:

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

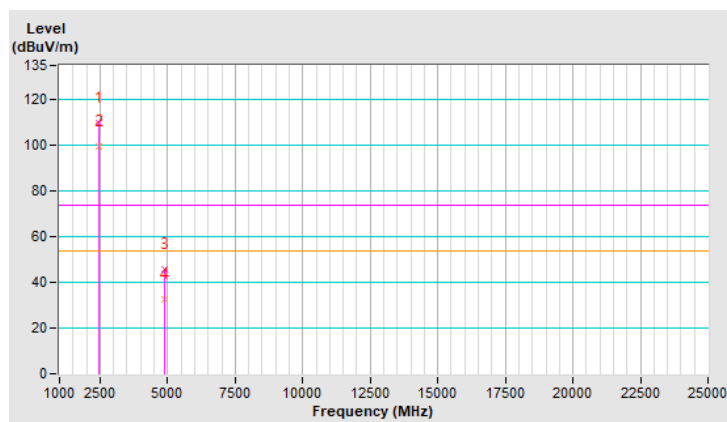


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.8 PK			1.60 H	207	77.5	32.3
2	*2437.00	99.3 AV			1.60 H	207	67.0	32.3
3	4874.00	45.7 PK	74.0	-28.3	3.13 H	167	42.0	3.7
4	4874.00	32.8 AV	54.0	-21.2	3.13 H	167	29.1	3.7
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

REMARKS:

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

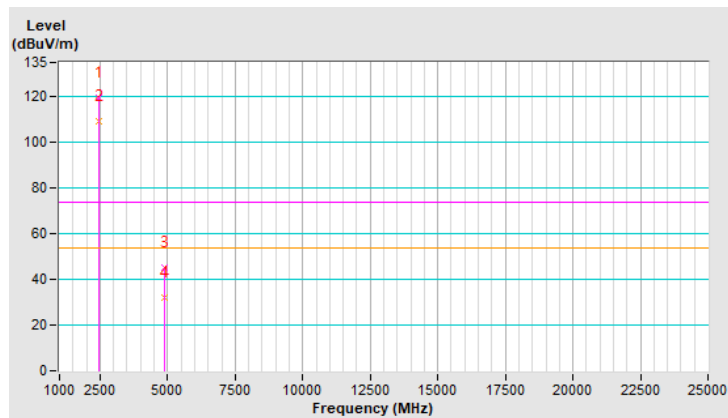


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	119.8 PK			2.26 V	327	87.5	32.3
2	*2437.00	109.2 AV			2.26 V	327	76.9	32.3
3	4874.00	45.3 PK	74.0	-28.7	1.75 V	186	41.6	3.7
4	4874.00	32.2 AV	54.0	-21.8	1.75 V	186	28.5	3.7
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

REMARKS:

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

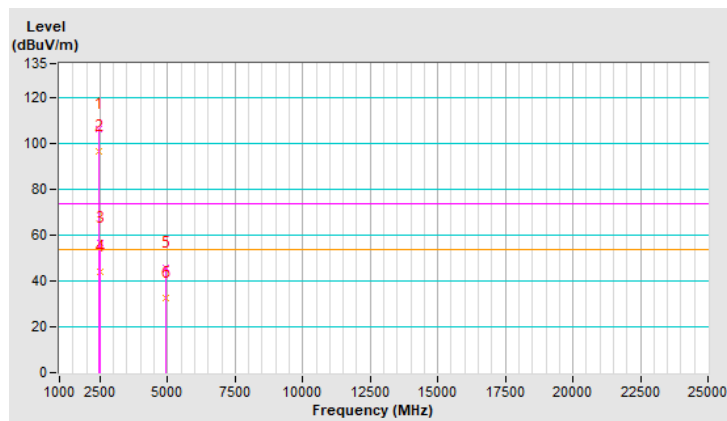


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.4 PK			1.67 H	202	74.0	32.4
2	*2462.00	96.4 AV			1.67 H	202	64.0	32.4
3	2483.50	56.9 PK	74.0	-17.1	1.67 H	202	24.5	32.4
4	2483.50	44.3 AV	54.0	-9.7	1.67 H	202	11.9	32.4
5	4924.00	45.7 PK	74.0	-28.3	3.12 H	163	41.9	3.8
6	4924.00	32.7 AV	54.0	-21.3	3.12 H	163	28.9	3.8
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

REMARKS:

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

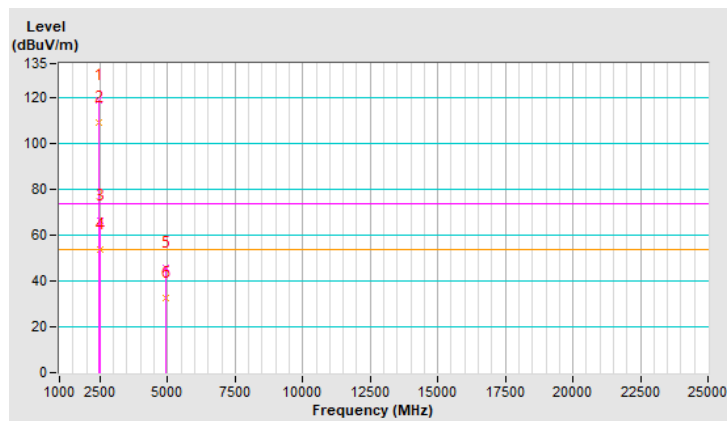


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	118.8 PK			2.07 V	12	86.4	32.4
2	*2462.00	109.2 AV			2.07 V	12	76.8	32.4
3	2483.50	66.2 PK	74.0	-7.8	2.07 V	12	33.8	32.4
4	2483.50	53.7 AV	54.0	-0.3	2.07 V	12	21.3	32.4
5	4924.00	45.6 PK	74.0	-28.4	1.80 V	191	41.8	3.8
6	4924.00	32.4 AV	54.0	-21.6	1.80 V	191	28.6	3.8
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

REMARKS:

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



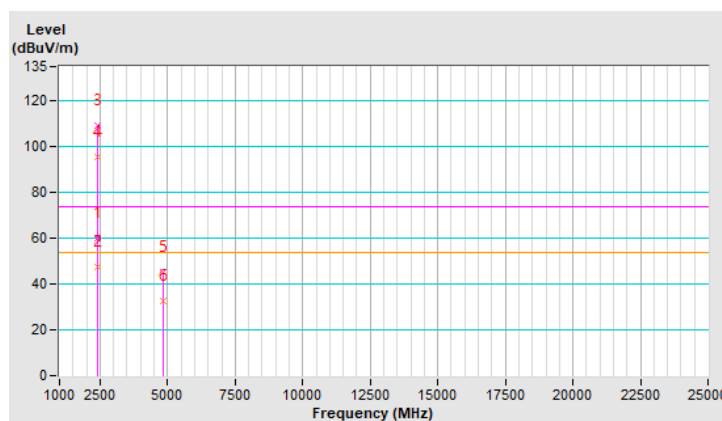
802.11ax (HE20)

操 作 模 式 :	發射	調 變 技 術 :	OFDMA
基 本 波 頻 率 :	CH 1 : 2412 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	23℃	量 測 場 地 濕 度 :	66%RH
測 試 日 期 :	109 年 04 月 24 日	測 試 者 :	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.3 PK	74.0	-13.7	1.67 H	206	28.0	32.3
2	2390.00	47.2 AV	54.0	-6.8	1.67 H	206	14.9	32.3
3	*2412.00	109.1 PK			1.67 H	206	76.8	32.3
4	*2412.00	95.5 AV			1.67 H	206	63.2	32.3
5	4824.00	45.4 PK	74.0	-28.6	3.11 H	154	42.0	3.4
6	4824.00	32.5 AV	54.0	-21.5	3.11 H	154	29.1	3.4
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

REMARKS:

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

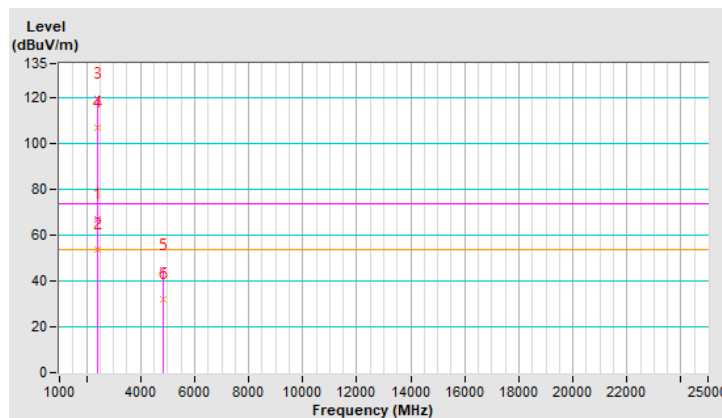


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	67.0 PK	74.0	-7.0	1.98 V	12	34.7	32.3
2	2390.00	53.9 AV	54.0	-0.1	1.98 V	12	21.6	32.3
3	*2412.00	119.3 PK			1.98 V	12	87.0	32.3
4	*2412.00	107.0 AV			1.98 V	12	74.7	32.3
5	4824.00	44.9 PK	74.0	-29.1	1.72 V	188	41.5	3.4
6	4824.00	32.0 AV	54.0	-22.0	1.72 V	188	28.6	3.4
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

REMARKS:

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

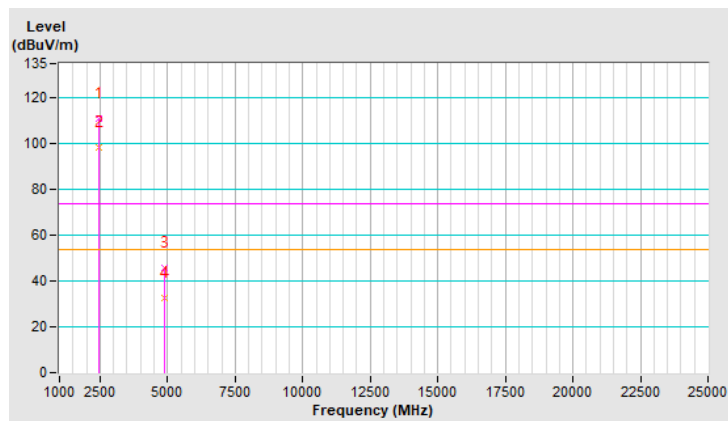


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.7 PK			1.66 H	206	78.4	32.3
2	*2437.00	98.5 AV			1.66 H	206	66.2	32.3
3	4874.00	45.5 PK	74.0	-28.5	3.12 H	164	41.8	3.7
4	4874.00	32.5 AV	54.0	-21.5	3.12 H	164	28.8	3.7
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

REMARKS:

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

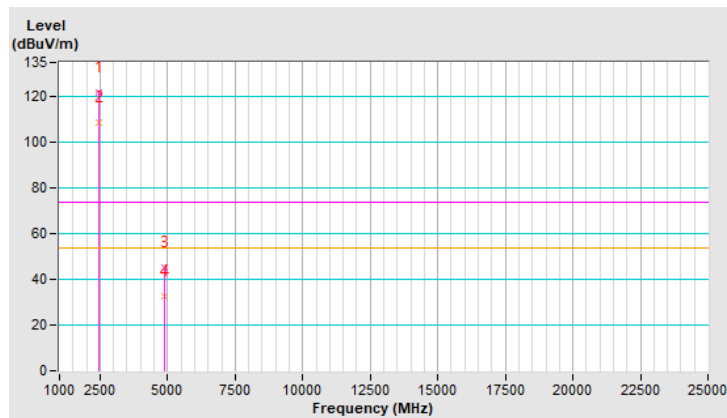


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	121.8 PK			2.30 V	322	89.5	32.3
2	*2437.00	108.7 AV			2.30 V	322	76.4	32.3
3	4874.00	45.2 PK	74.0	-28.8	1.82 V	190	41.5	3.7
4	4874.00	32.5 AV	54.0	-21.5	1.82 V	190	28.8	3.7
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

REMARKS:

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

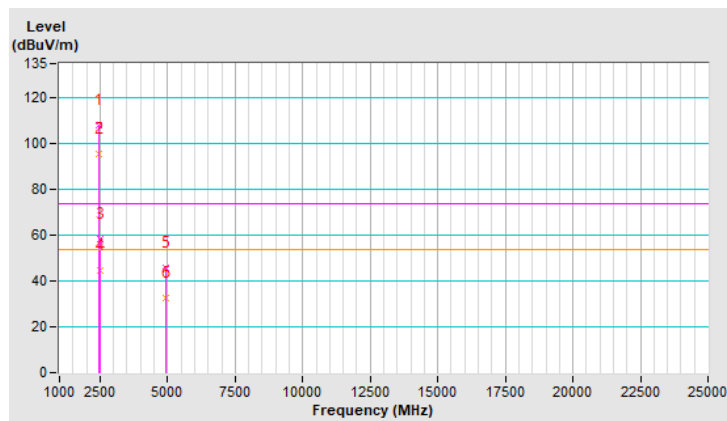


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	107.9 PK			1.67 H	204	75.5	32.4
2	*2462.00	95.7 AV			1.67 H	204	63.3	32.4
3	2483.50	58.4 PK	74.0	-15.6	1.67 H	204	26.0	32.4
4	2483.50	44.4 AV	54.0	-9.6	1.67 H	204	12.0	32.4
5	4924.00	45.8 PK	74.0	-28.2	3.15 H	163	42.0	3.8
6	4924.00	32.7 AV	54.0	-21.3	3.15 H	163	28.9	3.8
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

REMARKS:

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

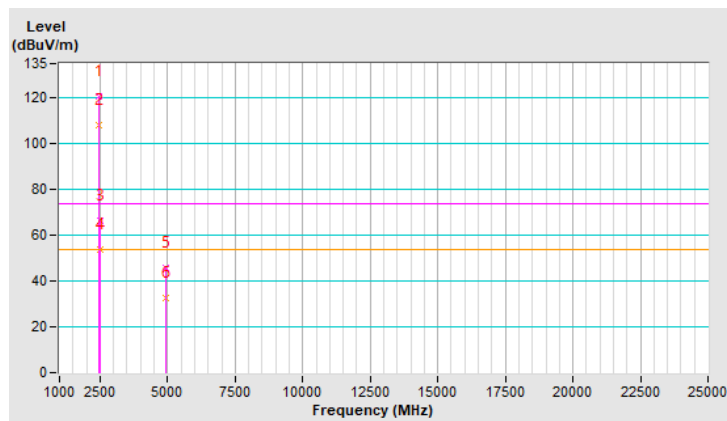


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	120.8 PK			1.95 V	20	88.4	32.4
2	*2462.00	108.2 AV			1.95 V	20	75.8	32.4
3	2483.50	66.3 PK	74.0	-7.7	1.95 V	20	33.9	32.4
4	2483.50	53.7 AV	54.0	-0.3	1.95 V	20	21.3	32.4
5	4924.00	45.5 PK	74.0	-28.5	1.88 V	193	41.7	3.8
6	4924.00	32.8 AV	54.0	-21.2	1.88 V	193	29.0	3.8
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

REMARKS:

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



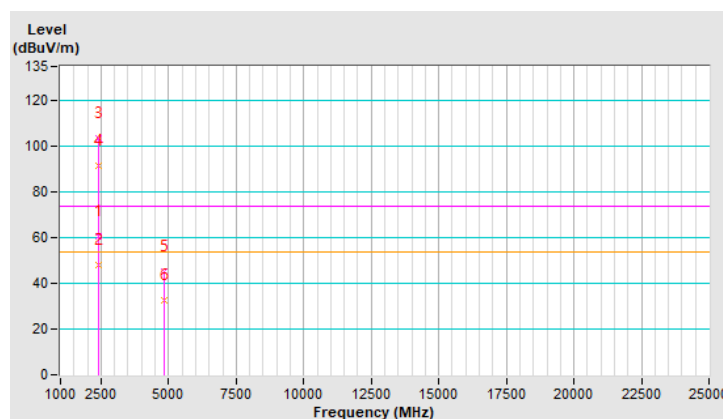
802.11ax (HE40)

操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	2388.00	60.5 PK	74.0	-13.5	1.62 H	201	28.2	32.3
2	2388.00	48.3 AV	54.0	-5.7	1.62 H	201	16.0	32.3
3	*2422.00	103.4 PK			1.62 H	201	71.1	32.3
4	*2422.00	91.6 AV			1.62 H	201	59.3	32.3
5	4844.00	45.3 PK	74.0	-28.7	3.11 H	159	41.8	3.5
6	4844.00	32.4 AV	54.0	-21.6	3.11 H	159	28.9	3.5
	7266.00	-	-	-	-	-	-	-
	9688.00	-	-	-	-	-	-	-
	12110.00	-	-	-	-	-	-	-
	14532.00	-	-	-	-	-	-	-
	16954.00	-	-	-	-	-	-	-
	19376.00	-	-	-	-	-	-	-
	21798.00	-	-	-	-	-	-	-
	24220.00	-	-	-	-	-	-	-

REMARKS:

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

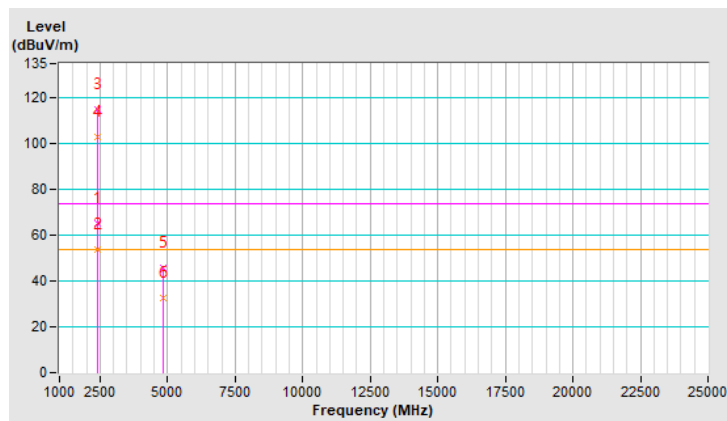


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	2385.50	65.2 PK	74.0	-8.8	2.33 V	353	32.9	32.3
2	2385.50	53.8 AV	54.0	-0.2	2.33 V	353	21.5	32.3
3	*2422.00	114.9 PK			2.33 V	353	82.6	32.3
4	*2422.00	102.9 AV			2.33 V	353	70.6	32.3
5	4844.00	45.6 PK	74.0	-28.4	1.82 V	194	42.1	3.5
6	4844.00	32.5 AV	54.0	-21.5	1.82 V	194	29.0	3.5
	7266.00	-	-	-	-	-	-	-
	9688.00	-	-	-	-	-	-	-
	12110.00	-	-	-	-	-	-	-
	14532.00	-	-	-	-	-	-	-
	16954.00	-	-	-	-	-	-	-
	19376.00	-	-	-	-	-	-	-
	21798.00	-	-	-	-	-	-	-
	24220.00	-	-	-	-	-	-	-

REMARKS:

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

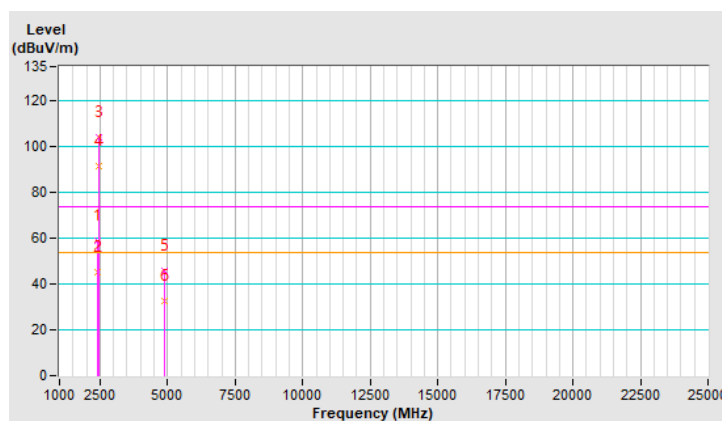


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	58.7 PK	74.0	-15.3	1.57 H	201	26.4	32.3
2	2390.00	45.4 AV	54.0	-8.6	1.57 H	201	13.1	32.3
3	*2437.00	104.3 PK			1.57 H	201	72.0	32.3
4	*2437.00	91.7 AV			1.57 H	201	59.4	32.3
5	4874.00	45.5 PK	74.0	-28.5	3.11 H	156	41.8	3.7
6	4874.00	32.5 AV	54.0	-21.5	3.11 H	156	28.8	3.7
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

REMARKS:

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

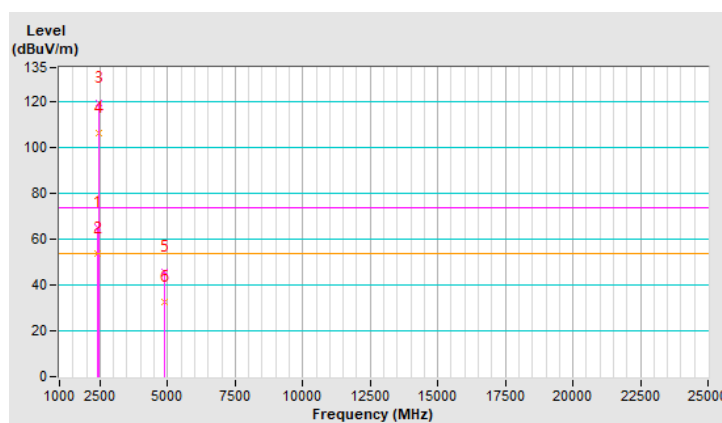


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	65.3 PK	74.0	-8.7	2.30 V	356	33.0	32.3
2	2390.00	53.9 AV	54.0	-0.1	2.30 V	356	21.6	32.3
3	*2437.00	119.5 PK			2.30 V	356	87.2	32.3
4	*2437.00	106.2 AV			2.30 V	356	73.9	32.3
5	4874.00	45.5 PK	74.0	-28.5	1.86 V	192	41.8	3.7
6	4874.00	32.6 AV	54.0	-21.4	1.86 V	192	28.9	3.7
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

REMARKS:

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

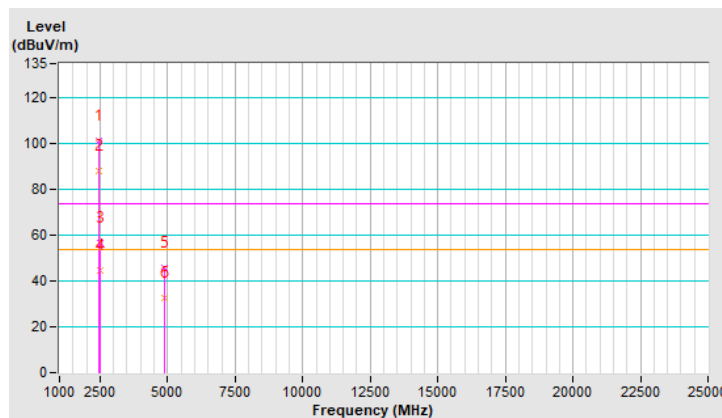


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	101.1 PK			1.82 H	175	68.7	32.4
2	*2452.00	88.0 AV			1.82 H	175	55.6	32.4
3	2483.50	56.7 PK	74.0	-17.3	1.82 H	175	24.3	32.4
4	2483.50	44.4 AV	54.0	-9.6	1.82 H	175	12.0	32.4
5	4904.00	45.6 PK	74.0	-28.4	3.02 H	153	41.9	3.7
6	4904.00	32.7 AV	54.0	-21.3	3.02 H	153	29.0	3.7
	7356.00	-	-	-	-	-	-	-
	9808.00	-	-	-	-	-	-	-
	12260.00	-	-	-	-	-	-	-
	14712.00	-	-	-	-	-	-	-
	17164.00	-	-	-	-	-	-	-
	19616.00	-	-	-	-	-	-	-
	22068.00	-	-	-	-	-	-	-
	24520.00	-	-	-	-	-	-	-

REMARKS:

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

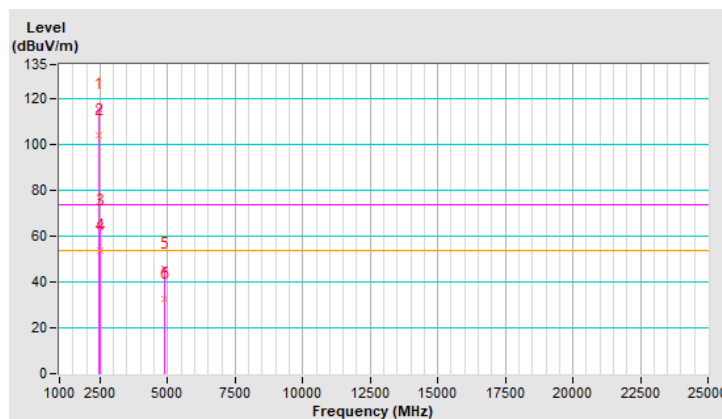


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	115.8 PK			2.59 V	23	83.4	32.4
2	*2452.00	104.0 AV			2.59 V	23	71.6	32.4
3	2483.50	64.7 PK	74.0	-9.3	2.59 V	23	32.3	32.4
4	2483.50	53.8 AV	54.0	-0.2	2.59 V	23	21.4	32.4
5	4904.00	45.6 PK	74.0	-28.4	1.83 V	193	41.9	3.7
6	4904.00	32.7 AV	54.0	-21.3	1.83 V	193	29.0	3.7
	7356.00	-	-	-	-	-	-	-
	9808.00	-	-	-	-	-	-	-
	12260.00	-	-	-	-	-	-	-
	14712.00	-	-	-	-	-	-	-
	17164.00	-	-	-	-	-	-	-
	19616.00	-	-	-	-	-	-	-
	22068.00	-	-	-	-	-	-	-
	24520.00	-	-	-	-	-	-	-

REMARKS:

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



4.6.2 接收諧波

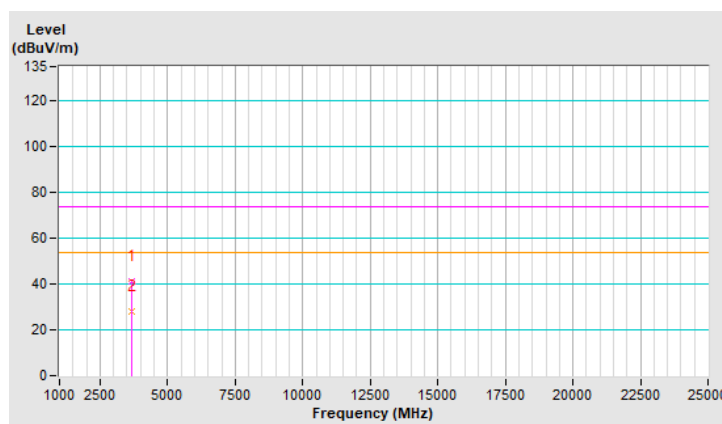
802.11b

操 作 模 式 :	接收		
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz (RMS)
量 測 場 地 溫 度 :	23°C	量 測 場 地 濕 度 :	66%RH
測 試 日 期 :	109 年 04 月 24 日	測 試 者 :	許偉信

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	3656.00	41.3 PK	74.0	-32.7	2.93 H	163	42.1	-0.8
2	3656.00	28.2 AV	54.0	-25.8	2.93 H	163	29.0	-0.8

REMARKS:

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

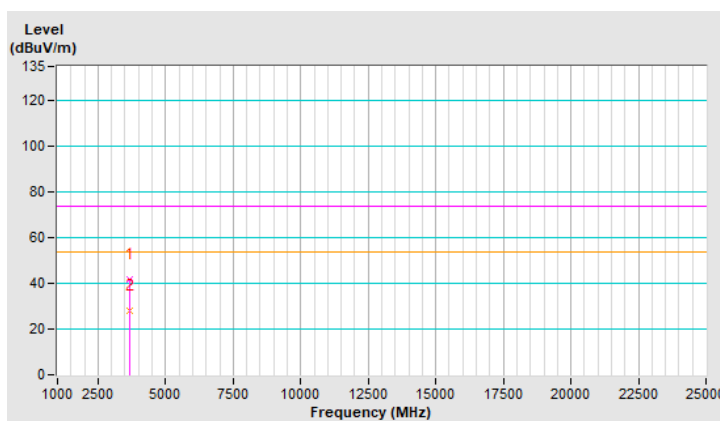


操 作 模 式 :	接收		
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz (RMS)
量 測 場 地 溫 度 :	23°C	量 測 場 地 濕 度 :	66%RH
測 試 日 期 :	109 年 04 月 24 日	測 試 者 :	許偉信

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	3656.00	41.6 PK	74.0	-32.4	3.11 V	223	42.4	-0.8
2	3656.00	28.3 AV	54.0	-25.7	3.11 V	223	29.1	-0.8

REMARKS:

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



4.6.3 其它不必要之訊號

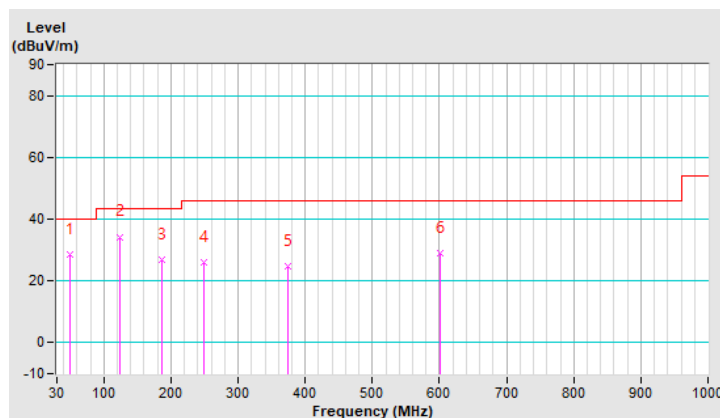
802.11b

操作模式：	發射/接收	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	49.68	28.6 QP	40.0	-11.4	2.00 H	18	37.4	-8.8
2	124.19	34.3 QP	43.5	-9.2	1.49 H	69	44.9	-10.6
3	186.04	26.8 QP	43.5	-16.7	1.49 H	243	37.4	-10.6
4	249.30	25.9 QP	46.0	-20.1	1.00 H	135	35.4	-9.5
5	374.42	24.9 QP	46.0	-21.1	1.00 H	57	30.0	-5.1
6	600.75	29.1 QP	46.0	-16.9	1.49 H	144	28.0	1.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.

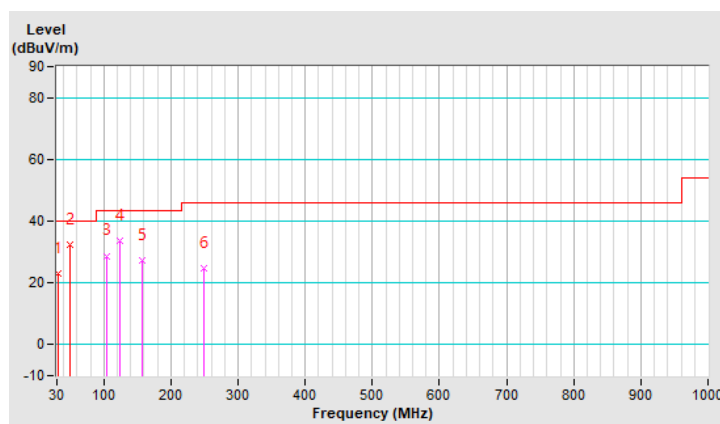


操作模式：	發射/接收	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	32.50	22.9 QP	40.0	-17.1	1.50 V	78	33.4	-10.5
2	50.45	32.2 QP	40.0	-7.8	1.00 V	301	40.9	-8.7
3	104.51	28.8 QP	43.5	-14.7	1.00 V	111	41.2	-12.4
4	124.19	33.5 QP	43.5	-10.0	1.00 V	256	44.1	-10.6
5	157.93	27.3 QP	43.5	-16.2	1.00 V	40	35.8	-8.5
6	249.30	24.8 QP	46.0	-21.2	1.00 V	189	34.3	-9.5

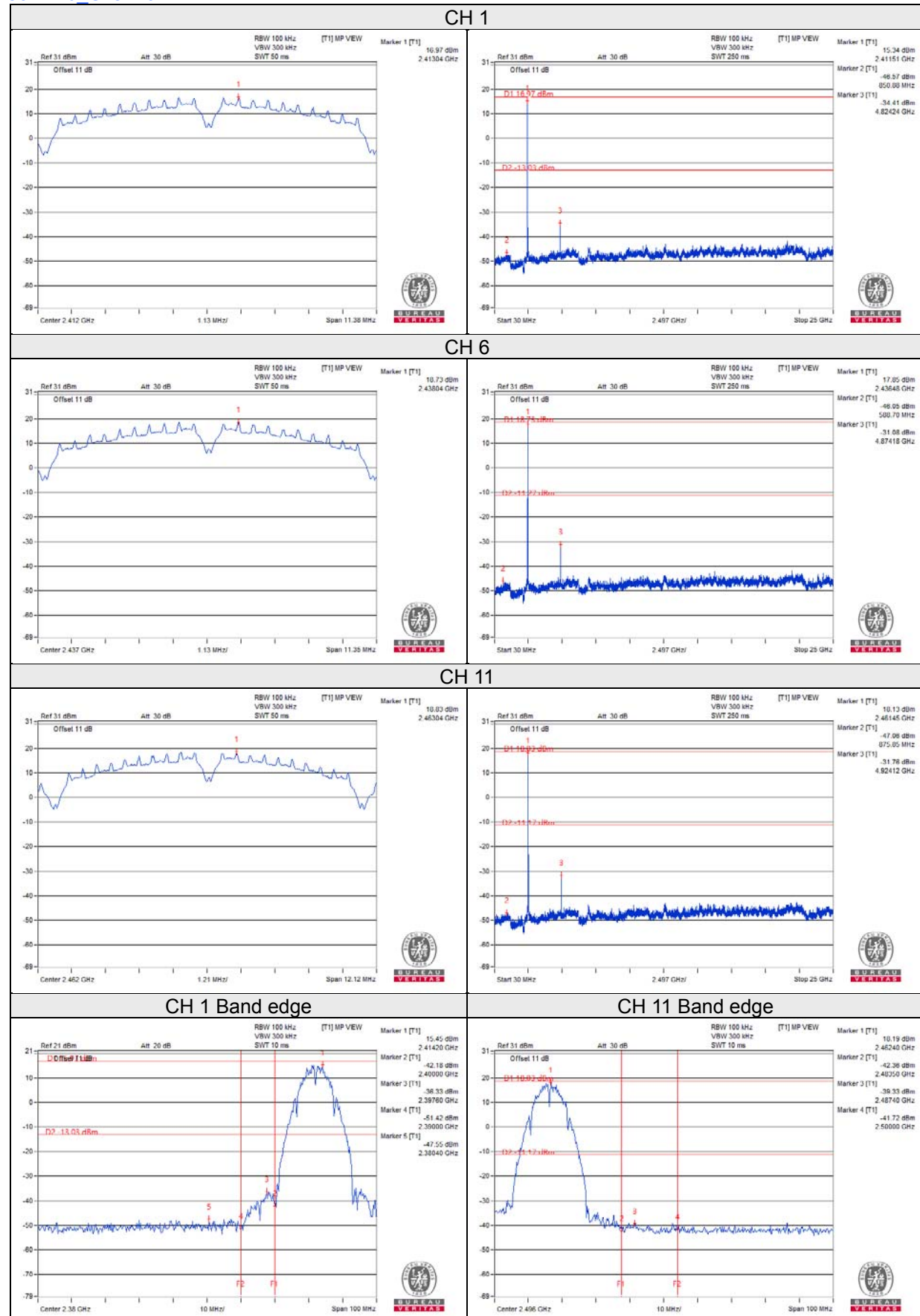
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.

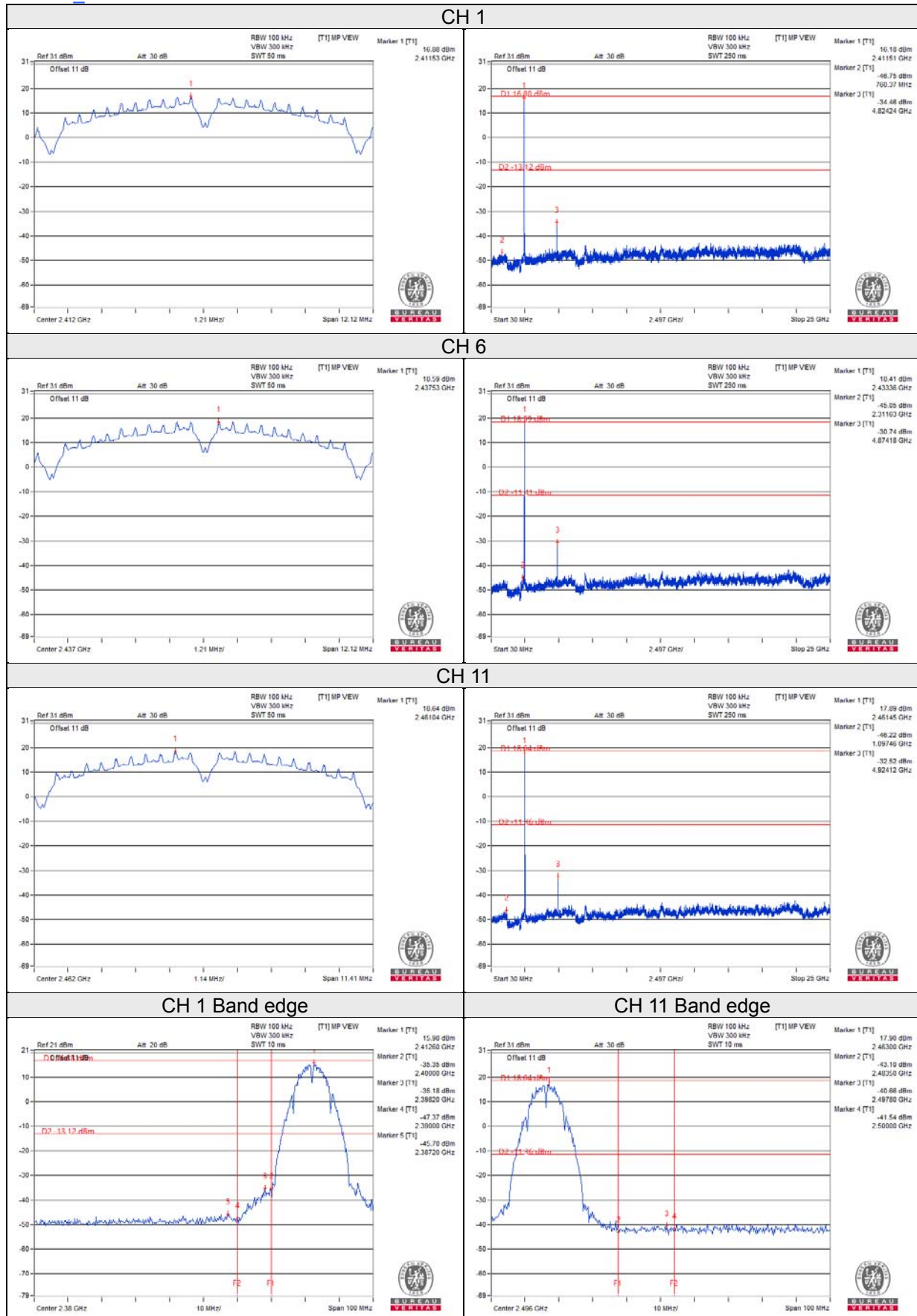


4.7 帶外發射之量測 (傳導)

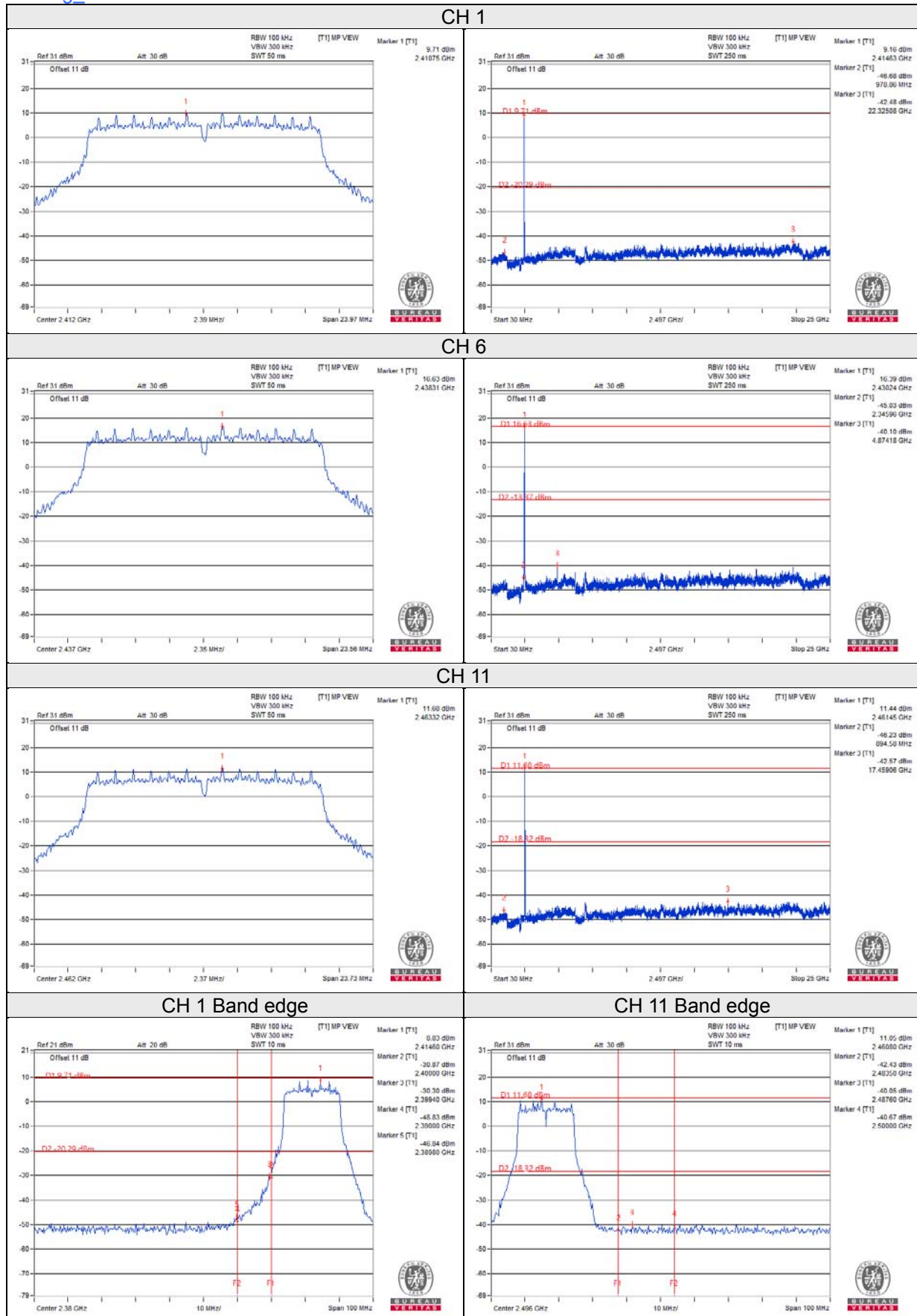
802.11b_Chain 0



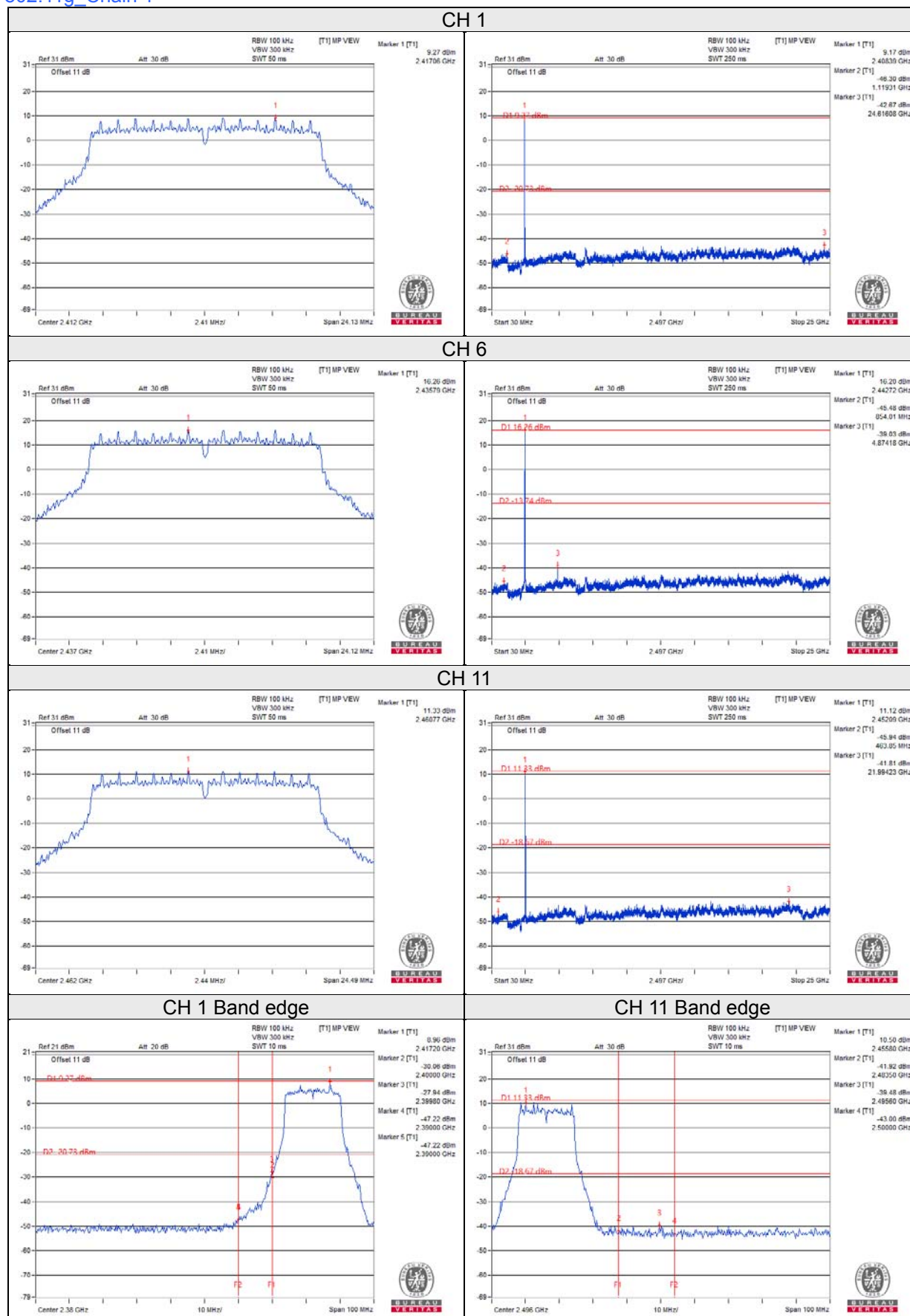
802.11b_Chain 1



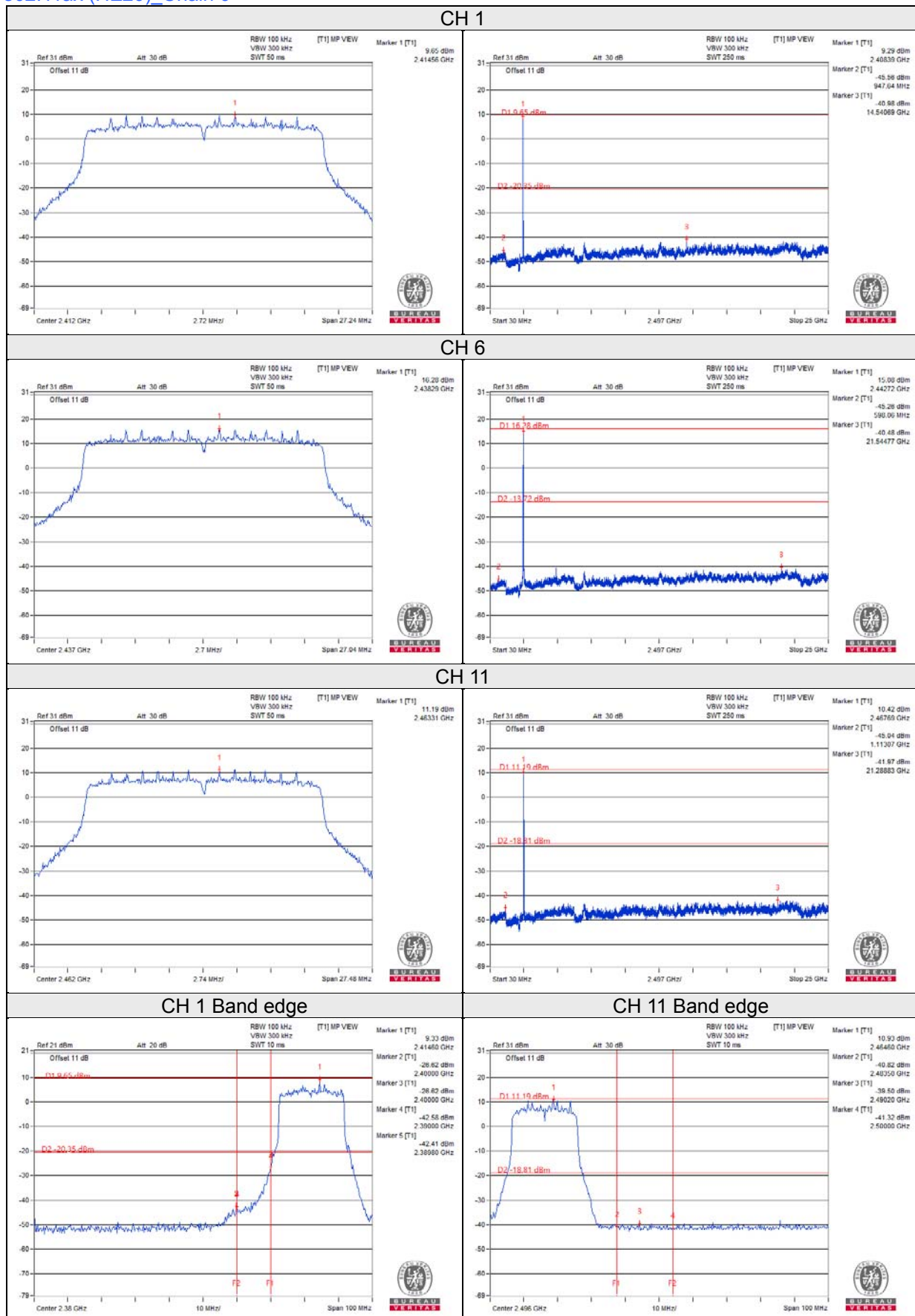
802.11g_Chain 0



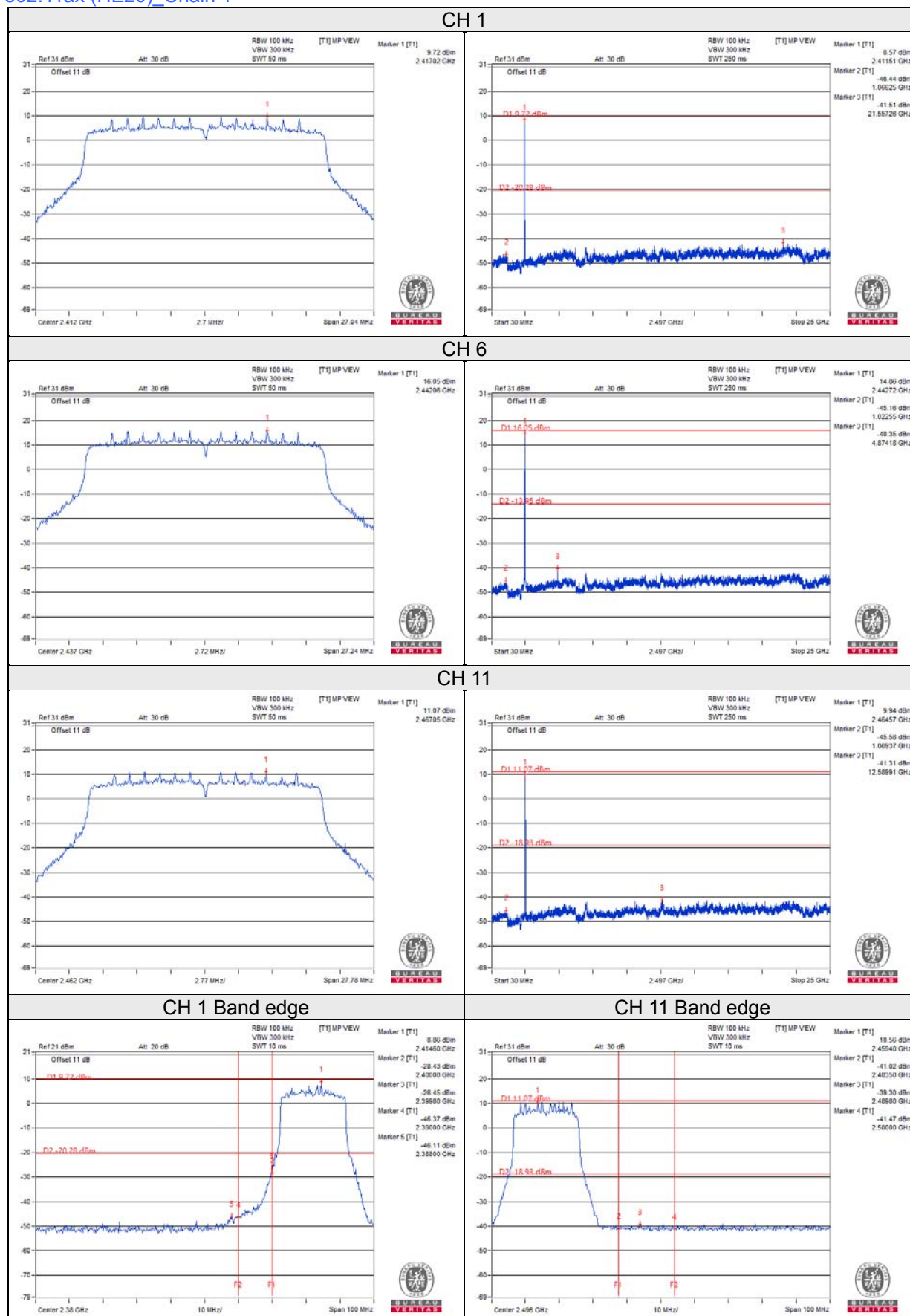
802.11g_Chain 1



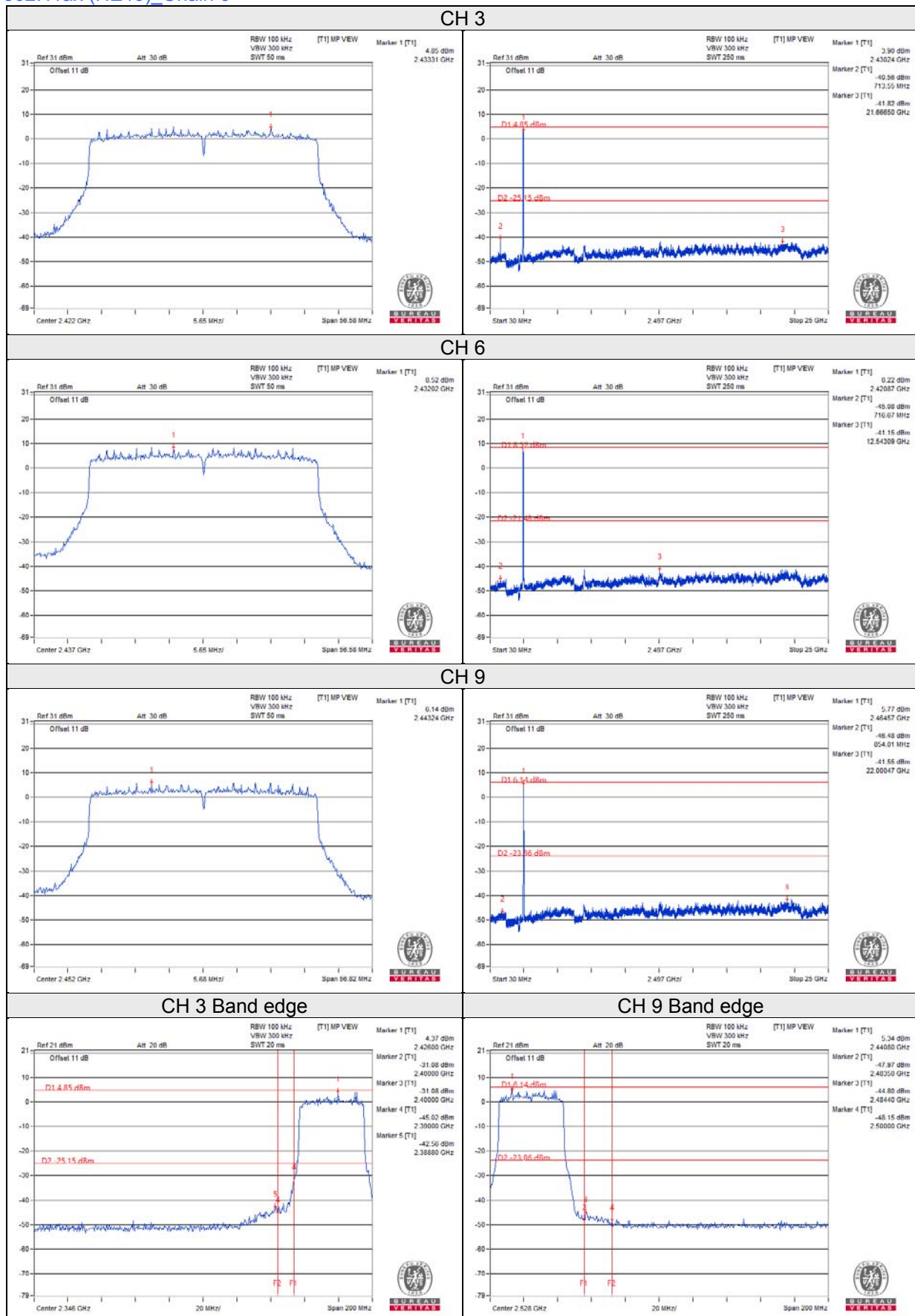
802.11ax (HE20)_Chain 0



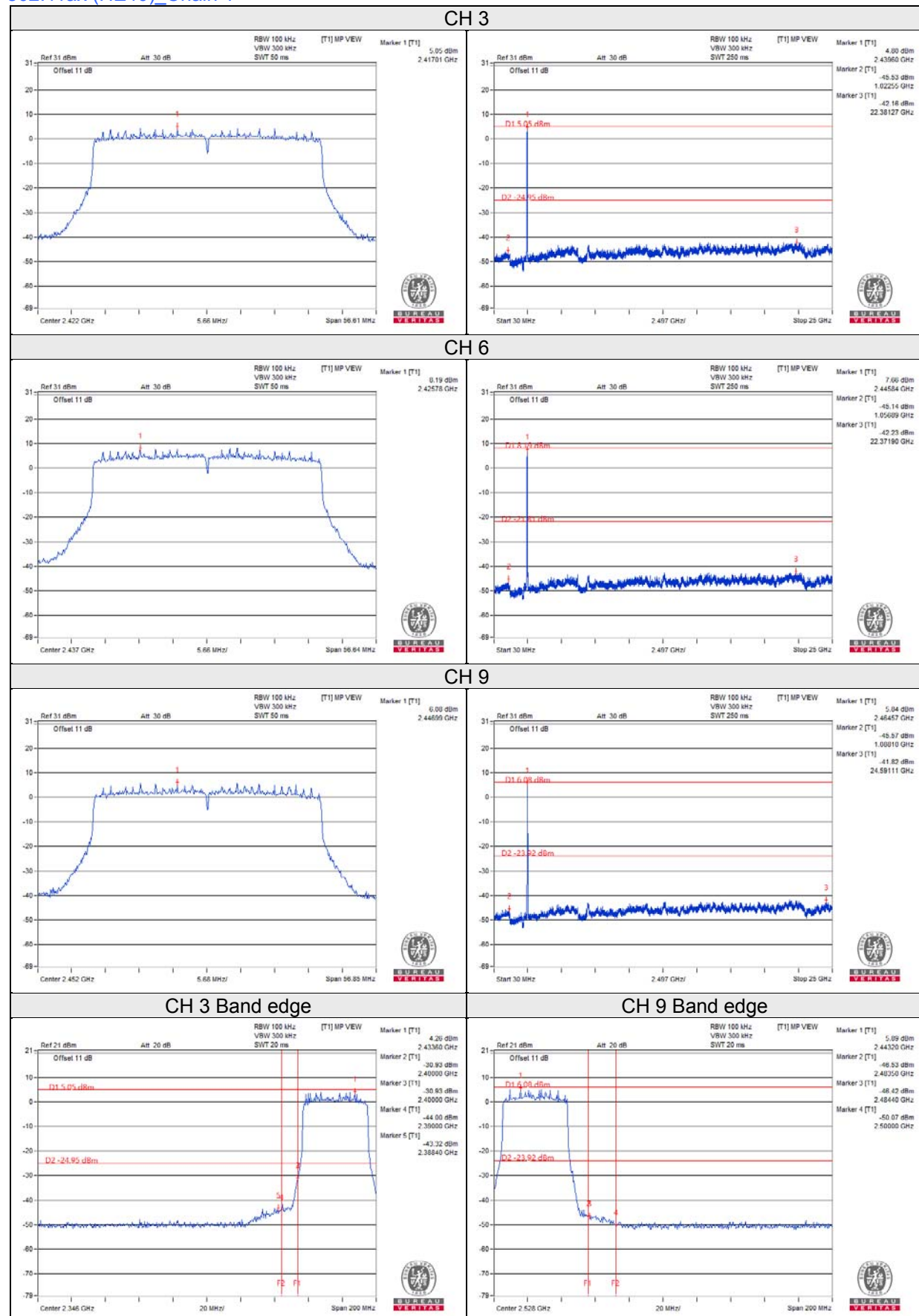
802.11ax (HE20)_Chain 1



802.11ax (HE40)_Chain 0



802.11ax (HE40)_Chain 1



4.8 量測結果判定

依據測試數據結果，符合低功率射頻器材技術規範之要求。

4.9 配置照片

請參閱附件（測試設置照片）。

5 電源線傳導干擾之量測

5.1 適用標準

請見本報告3.1節第1項的規定。

5.2 量測方法

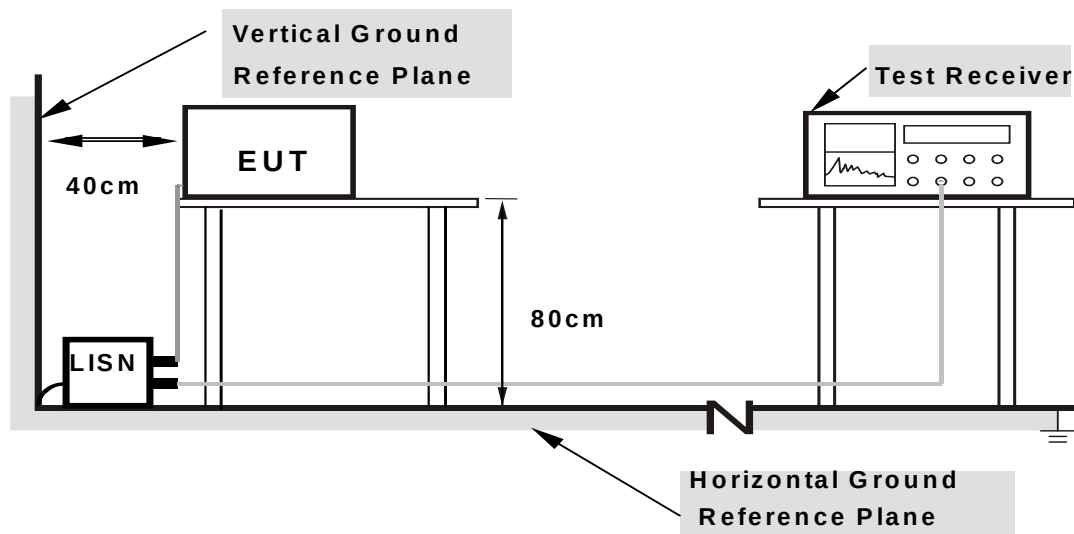
將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由0.15MHz至30MHz之間之電源線傳導放射強度。

5.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 11, 2019	Dec. 10, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 20, 2020	Feb. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 22, 2019	Aug. 21, 2020
Software ADT	BV ADT_Conf_ V7.3.7.4	NA	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 1 (Conduction 1).
3. The VCCI Site Registration No. is C-12040.
4. The measurement uncertainty is 2.94 dB, which is calculated as per the document CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5.4 測試配置



Note: 1.Support units were connected to second LISN.
 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

5.5 干擾值之計算

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

電源傳導干擾電壓之計算公式如下

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

其中校正因子Correction Factor (dB)為：

饋線損失+電源阻抗模擬網路損失

5.6 量測結果

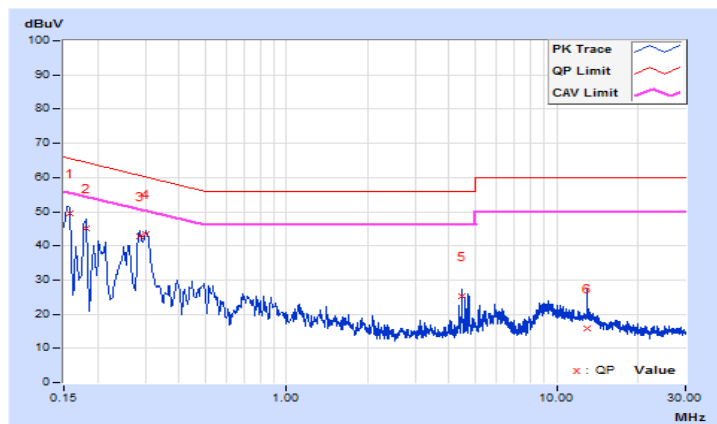
802.11b

操作模式	發射/接收	測試日期	109 年 04 月 27 日
基本波頻率	CH 6: 2437MHz	量測場地溫度	23°C
調變技術	DSSS	量測場地濕度	67%RH
測試者	彭民達		

		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.
0.15800	9.63	39.70	20.35	49.33	29.98	65.57	55.57	-16.24	-25.59
0.18180	9.62	35.49	18.82	45.11	28.44	64.40	54.40	-19.29	-25.96
0.28600	9.63	33.27	25.21	42.90	34.84	60.64	50.64	-17.74	-15.80
0.30150	9.64	33.83	25.64	43.47	35.28	60.20	50.20	-16.73	-14.92
4.45400	9.80	15.58	1.92	25.38	11.72	56.00	46.00	-30.62	-34.28
12.98600	9.89	5.94	1.51	15.83	11.40	60.00	50.00	-44.17	-38.60

Note:

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

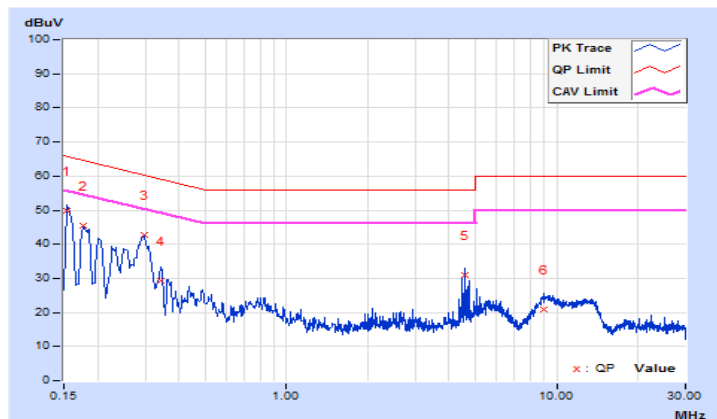


操作模式	發射/接收	測試日期	109 年 04 月 27 日
基本波頻率	CH 6: 2437MHz	量測場地溫度	23℃
調變技術	DSSS	量測場地濕度	67%RH
測試者	彭民達		

		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.
0.15400	9.66	40.34	24.10	50.00	33.76	65.78	55.78	-15.78	-22.02
0.17800	9.65	35.96	20.61	45.61	30.26	64.58	54.58	-18.97	-24.32
0.29800	9.65	33.27	23.80	42.92	33.45	60.30	50.30	-17.38	-16.85
0.34200	9.66	19.69	9.28	29.35	18.94	59.15	49.15	-29.80	-30.21
4.55800	9.83	21.02	5.72	30.85	15.55	56.00	46.00	-25.15	-30.45
8.92200	9.89	10.82	6.10	20.71	15.99	60.00	50.00	-39.29	-34.01

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，符合低功率射頻器材技術規範之要求。

5.8 配置照片

請參閱附件（測試設置照片）。

6 發射(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减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。

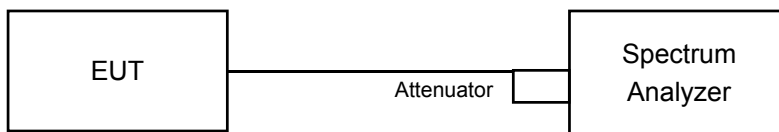
6.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jun. 04, 2019	Jun. 03, 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.

- The measurement uncertainty is 207Hz, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

6.4 測試配置



6.5 量測結果

操作模式	發射	測試日期	109 年 05 月 21 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	曾健瑋		

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	7.59	8.08	0.5	Pass
6	2437	7.57	8.08	0.5	Pass
11	2462	8.08	7.61	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	15.98	16.09	0.5	Pass
6	2437	15.71	16.08	0.5	Pass
11	2462	15.82	16.33	0.5	Pass

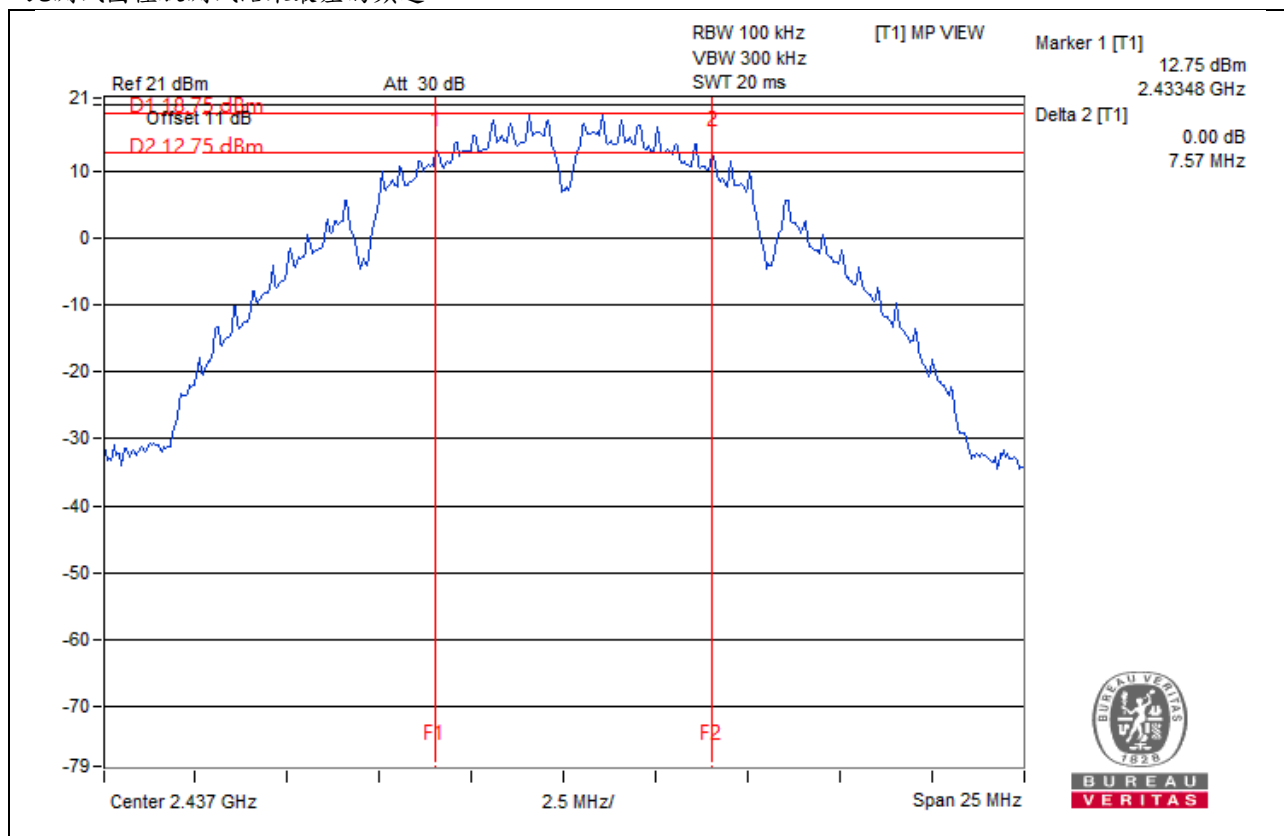
802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	18.16	18.03	0.5	Pass
6	2437	18.03	18.16	0.5	Pass
11	2462	18.32	18.52	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	37.72	37.74	0.5	Pass
6	2437	37.72	37.76	0.5	Pass
9	2452	37.88	37.90	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，符合低功率射頻器材技術規範之要求。

7 輸出峰值功率之量測

7.1 適用標準

請見本報告3.1節第6項(I)及4項(I)的規定。

7.2 量測方法

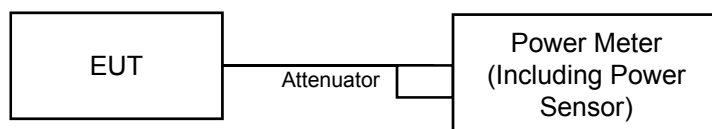
- 將待測物輸出經由衰減器接到功率計上(Average Detector with Gating Function)。
- 設定待測物處於連續發射狀態。
- 計算其輸出功率值。

7.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
USB Wideband Power Meter (Including Power Sensor) KEYSIGHT	U2021XA	MY55050005/MY55190004/MY55190007/MY55210005	Jul. 15, 2019	Jul. 14, 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 measurement uncertainty is 1.393dB, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

7.4 測試配置



7.5 量測結果

操作模式	發射	測試日期	109 年 05 月 21 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	曾健瑋		

CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	26.80	26.44	919.185	29.63	30	Pass
6	2437	26.83	26.45	923.518	29.65	30	Pass
11	2462	26.94	26.52	943.056	29.75	30	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.43	21.32	274.514	24.39	30	Pass
6	2437	26.79	26.47	921.138	29.64	30	Pass
11	2462	21.50	21.27	275.221	24.40	30	Pass

802.11n (VHT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.33	21.05	263.182	24.20	30	Pass
6	2437	26.77	26.55	927.191	29.67	30	Pass
11	2462	21.27	20.80	254.194	24.05	30	Pass

802.11n (VHT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	20.15	20.09	205.608	23.13	30	Pass
6	2437	21.91	21.74	304.518	24.84	30	Pass
9	2452	19.63	19.12	173.510	22.39	30	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.31	21.07	263.145	24.20	30	Pass
6	2437	26.83	26.61	940.090	29.73	30	Pass
11	2462	21.35	20.83	257.518	24.11	30	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	20.19	20.12	207.274	23.17	30	Pass
6	2437	21.98	21.75	307.385	24.88	30	Pass
9	2452	19.75	19.23	178.178	22.51	30	Pass

Beamforming Mode

802.11n (VHT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.33	21.05	263.182	24.20	30	Pass
6	2437	26.77	26.55	927.191	29.67	30	Pass
11	2462	21.27	20.80	254.194	24.05	30	Pass

Note: Beamforming Directional gain = 5.40dBi < 6dBi, so the power limit is not reduced.

802.11n (VHT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	20.15	20.09	205.608	23.13	30	Pass
6	2437	21.91	21.74	304.518	24.84	30	Pass
9	2452	19.63	19.12	173.510	22.39	30	Pass

Note: Beamforming Directional gain = 5.40dBi < 6dBi, so the power limit is not reduced.

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.31	21.07	263.145	24.20	30	Pass
6	2437	26.83	26.61	940.090	29.73	30	Pass
11	2462	21.35	20.83	257.518	24.11	30	Pass

Note: Beamforming Directional gain = 5.40dBi < 6dBi, so the power limit is not reduced.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	20.19	20.12	207.274	23.17	30	Pass
6	2437	21.98	21.75	307.385	24.88	30	Pass
9	2452	19.75	19.23	178.178	22.51	30	Pass

Note: Beamforming Directional gain = 5.40dBi < 6dBi, so the power limit is not reduced.

7.6 量測結果判定

依據測試數據結果，符合低功率射頻器材技術規範之要求。

8 功率密度之量測

8.1 適用標準

請見本報告3.1節第7項(I)的規定。

8.2 量測方法

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

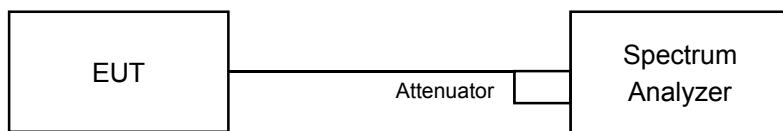
8.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jun. 04, 2019	Jun. 03, 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.

- The measurement uncertainty is 207Hz, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

8.4 測試配置



8.5 量測結果

操作模式	發射	測試日期	109 年 05 月 21 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	曾健瑋		

802.11b

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/3kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-12.77	3.01	2.92	-6.84	8.00	Pass
	6	2437	-13.05	3.01	2.92	-7.12	8.00	Pass
	11	2462	-13.50	3.01	2.92	-7.57	8.00	Pass
1	1	2412	-15.56	3.01	2.92	-9.63	8.00	Pass
	6	2437	-12.52	3.01	2.92	-6.59	8.00	Pass
	11	2462	-12.79	3.01	2.92	-6.86	8.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.40\text{dBi} < 6\text{dBi}$, so the power spectral density limit is not reduced.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/3kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-16.30	3.01	0.39	-12.90	8.00	Pass
	6	2437	-9.92	3.01	0.39	-6.52	8.00	Pass
	11	2462	-14.73	3.01	0.39	-11.33	8.00	Pass
1	1	2412	-17.07	3.01	0.39	-13.67	8.00	Pass
	6	2437	-9.88	3.01	0.39	-6.48	8.00	Pass
	11	2462	-14.89	3.01	0.39	-11.49	8.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.40\text{dBi} < 6\text{dBi}$, so the power spectral density limit is not reduced.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/3kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-18.06	3.01	0.20	-14.85	8.00	Pass
	6	2437	-12.08	3.01	0.20	-8.87	8.00	Pass
	11	2462	-17.03	3.01	0.20	-13.82	8.00	Pass
1	1	2412	-18.60	3.01	0.20	-15.39	8.00	Pass
	6	2437	-12.11	3.01	0.20	-8.90	8.00	Pass
	11	2462	-17.11	3.01	0.20	-13.90	8.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.40\text{dBi} < 6\text{dBi}$, so the power spectral density limit is not reduced.
3. Refer to section 2.1 for duty cycle spectrum plot.

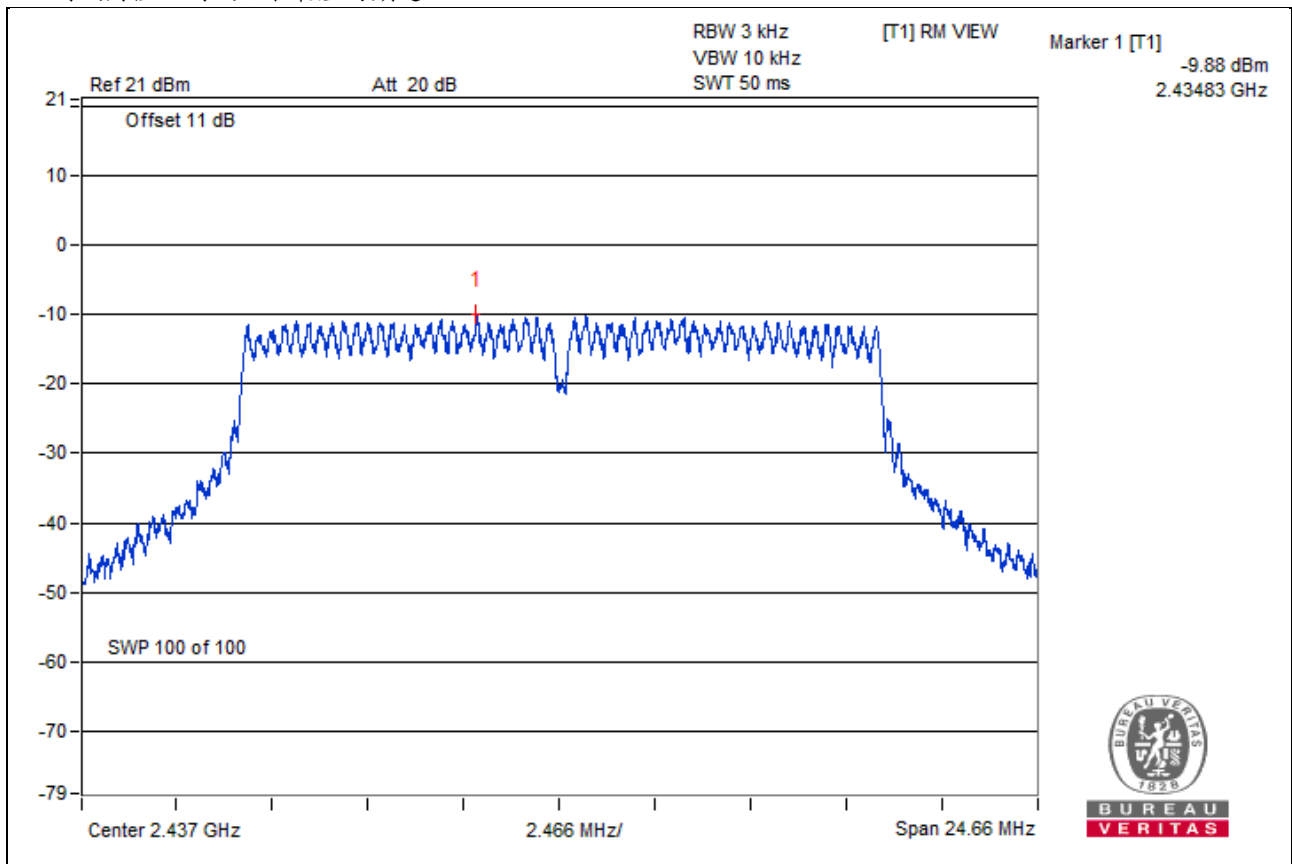
802.11ax (HE40)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/3kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-23.30	3.01	0.31	-19.98	8.00	Pass
	6	2437	-18.80	3.01	0.31	-15.48	8.00	Pass
	9	2452	-21.22	3.01	0.31	-17.90	8.00	Pass
1	3	2422	-23.10	3.01	0.31	-19.78	8.00	Pass
	6	2437	-19.00	3.01	0.31	-15.68	8.00	Pass
	9	2452	-21.97	3.01	0.31	-18.65	8.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.40\text{dBi} < 6\text{dBi}$, so the power spectral density limit is not reduced.
3. Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



8.6 量測結果判定

依據測試數據結果，符合低功率射頻器材技術規範之要求。

U-NII 頻段測試紀錄結果

9 帶外發射之量測

9.1 適用標準

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

9.2 量測方法

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

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

9.3 量測儀器

同4.3節。

9.4 測試配置

同4.4節。

9.5 場強度之計算

場強之計算公式如下：

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

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

*有效等向輻射功率限制值轉換場強值如下：

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules 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 5.7.4.1 節	PK:-27 (dBm/MHz)	PK:68.2(dBuV/m)
5250~5350 MHz	技術規範 5.7.4.1 節		
5470~5725 MHz	技術規範 5.7.4.1 節		
5725~5850 MHz	技術規範 5.7.4.2 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}
^{*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。

量測結果請見下頁。

9.6 量測結果

9.6.1 發射諧波

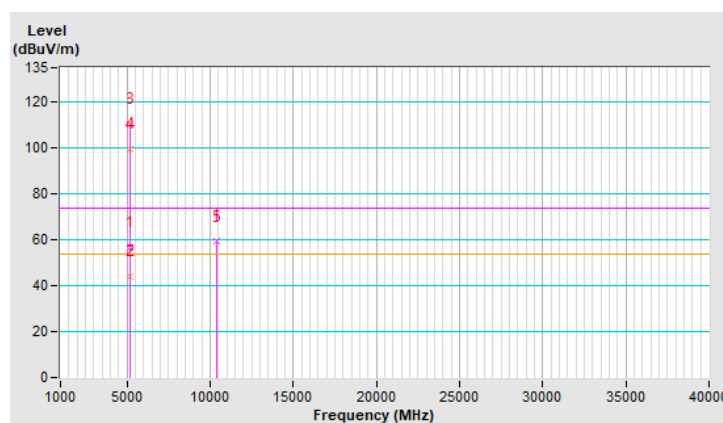
802.11a

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	5147.00	56.4 PK	74.0	-17.6	1.40 H	355	52.4	4.0
2	5147.00	43.8 AV	54.0	-10.2	1.40 H	355	39.8	4.0
3	*5180.00	110.3 PK			1.40 H	355	71.0	39.3
4	*5180.00	99.5 AV			1.40 H	355	60.2	39.3
5	#10360.00	59.2 PK	68.2	-9.0	1.89 H	290	42.0	17.2
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

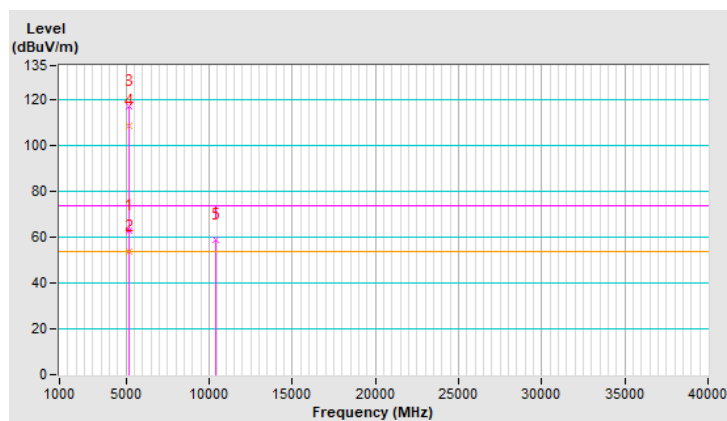


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	5149.00	62.8 PK	74.0	-11.2	1.00 V	63	58.8	4.0
2	5149.00	53.6 AV	54.0	-0.4	1.00 V	63	49.6	4.0
3	*5180.00	117.5 PK			1.00 V	63	78.2	39.3
4	*5180.00	108.7 AV			1.00 V	63	69.4	39.3
5	#10360.00	59.0 PK	68.2	-9.2	2.08 V	349	41.8	17.2
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

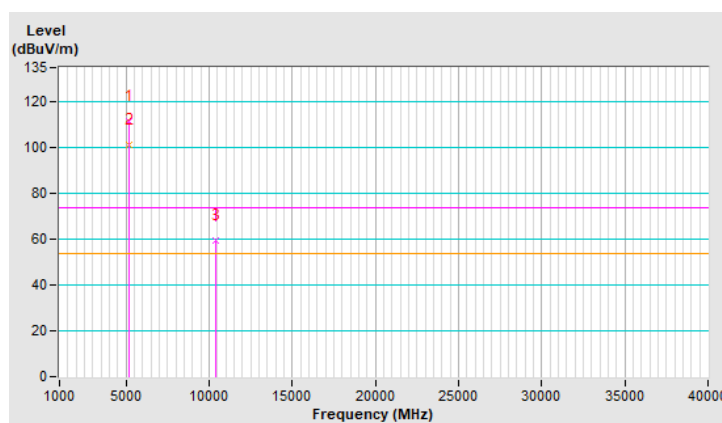


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	111.3 PK			1.37 H	352	72.0	39.3
2	*5200.00	101.0 AV			1.37 H	352	61.7	39.3
3	#10400.00	59.6 PK	68.2	-8.6	1.92 H	302	42.2	17.4
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

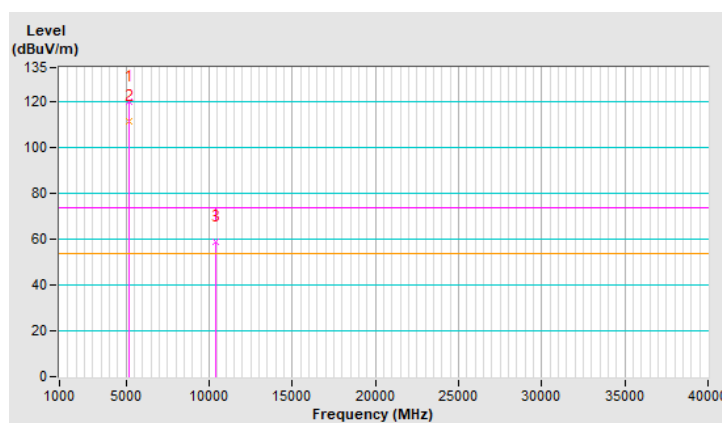


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	120.3 PK			1.00 V	54	81.0	39.3
2	*5200.00	111.5 AV			1.00 V	54	72.2	39.3
3	#10400.00	59.1 PK	68.2	-9.1	2.12 V	350	41.7	17.4
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

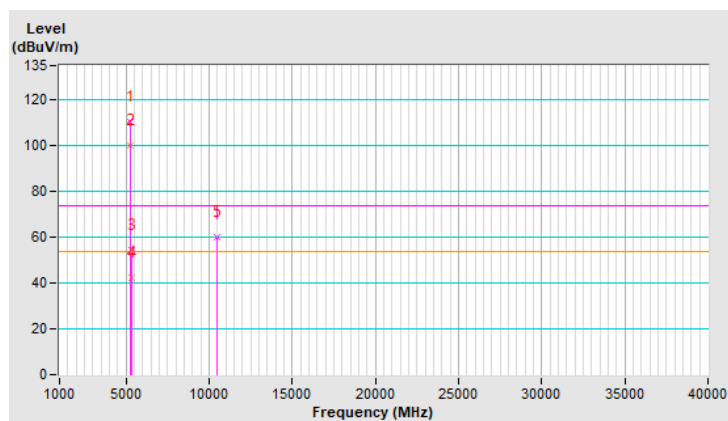


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	110.3 PK			1.30 H	352	71.2	39.1
2	*5240.00	100.1 AV			1.30 H	352	61.0	39.1
3	5350.00	54.6 PK	74.0	-19.4	1.30 H	352	50.5	4.1
4	5350.00	42.1 AV	54.0	-11.9	1.30 H	352	38.0	4.1
5	#10480.00	60.2 PK	68.2	-8.0	2.02 H	302	42.2	18.0
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

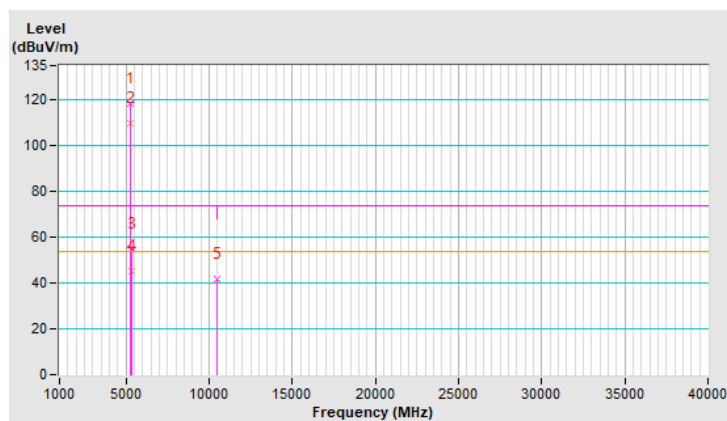


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	118.4 PK			1.00 V	57	79.3	39.1
2	*5240.00	109.6 AV			1.00 V	57	70.5	39.1
3	5350.00	55.2 PK	74.0	-18.8	1.00 V	57	51.1	4.1
4	5350.00	45.0 AV	54.0	-9.0	1.00 V	57	40.9	4.1
5	#10480.00	41.9 PK	68.2	-26.3	2.10 V	345	23.9	18.0
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

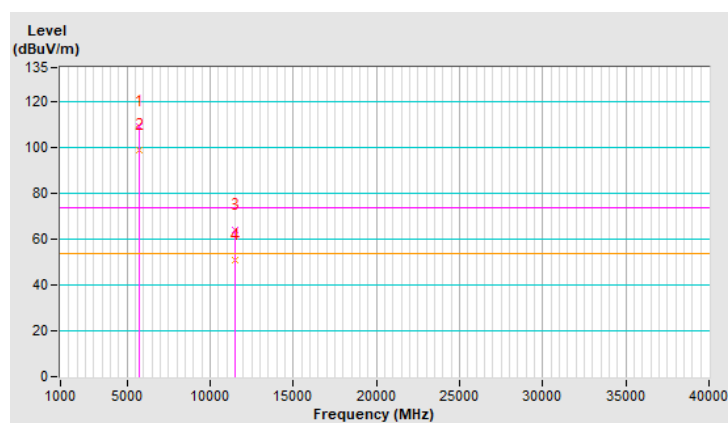


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	109.5 PK			1.55 H	200	69.5	40.0
2	*5745.00	98.7 AV			1.55 H	200	58.7	40.0
3	11490.00	64.0 PK	74.0	-10.0	1.55 H	202	45.2	18.8
4	11490.00	50.8 AV	54.0	-3.2	1.55 H	202	32.0	18.8
5	17235.00	-	-	-	-	-	-	-
6	22980.00	-	-	-	-	-	-	-
7	28725.00	-	-	-	-	-	-	-
8	34470.00	-	-	-	-	-	-	-

Remarks:

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

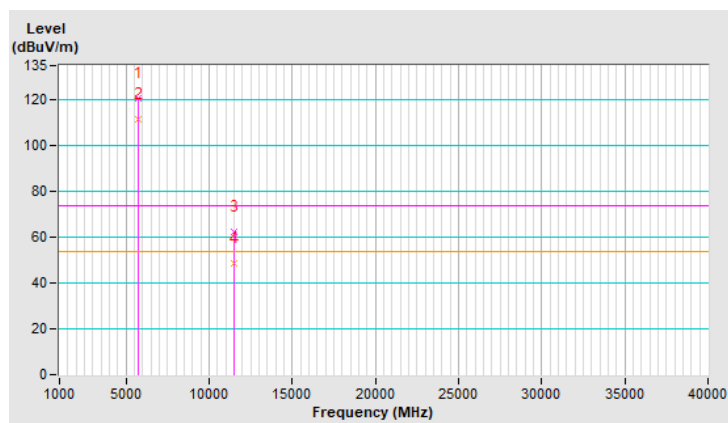


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	120.5 PK			1.00 V	184	80.5	40.0
2	*5745.00	111.5 AV			1.00 V	184	71.5	40.0
3	11490.00	62.1 PK	74.0	-11.9	1.46 V	6	43.3	18.8
4	11490.00	48.8 AV	54.0	-5.2	1.46 V	6	30.0	18.8
5	17235.00	-	-	-	-	-	-	-
6	22980.00	-	-	-	-	-	-	-
7	28725.00	-	-	-	-	-	-	-
8	34470.00	-	-	-	-	-	-	-

Remarks:

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

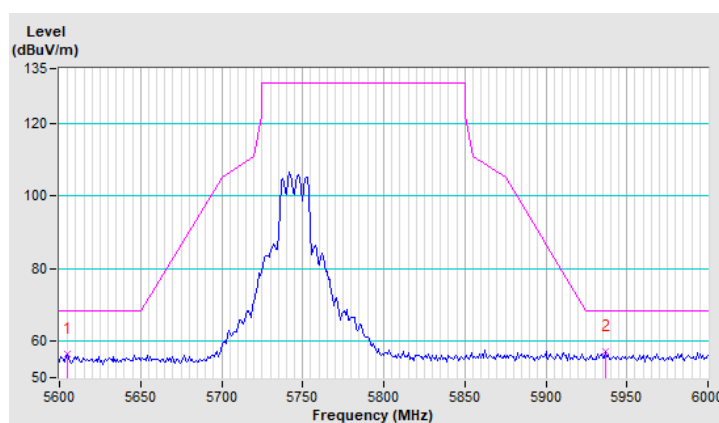


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5604.80	56.4 PK	68.2	-11.8	1.55 H	200	51.9	4.5
2	#5936.80	57.1 PK	68.2	-11.1	1.55 H	200	51.8	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

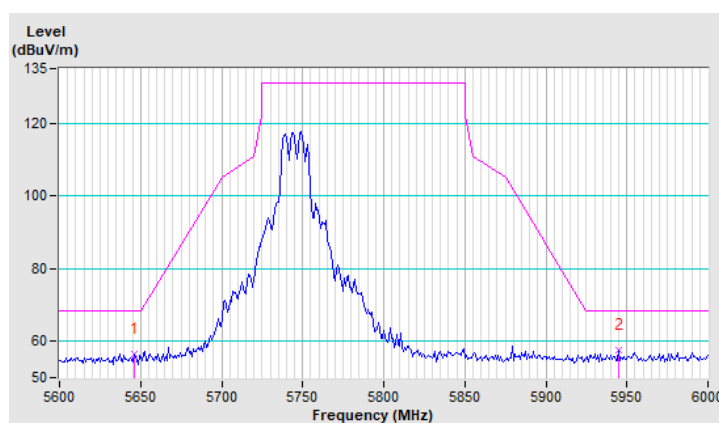


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5646.40	56.5 PK	68.2	-11.7	1.00 V	184	52.0	4.5
2	#5944.80	57.7 PK	68.2	-10.5	1.00 V	184	52.4	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

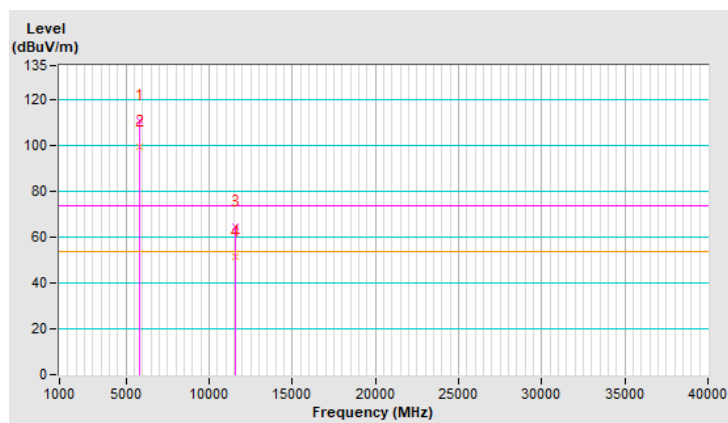


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	110.7 PK			1.54 H	201	70.5	40.2
2	*5785.00	99.8 AV			1.54 H	201	59.6	40.2
3	11570.00	64.8 PK	74.0	-9.2	1.56 H	204	46.3	18.5
4	11570.00	51.7 AV	54.0	-2.3	1.56 H	204	33.2	18.5
5	17355.00	-	-	-	-	-	-	-
6	23140.00	-	-	-	-	-	-	-
7	28925.00	-	-	-	-	-	-	-
8	34710.00	-	-	-	-	-	-	-

Remarks:

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

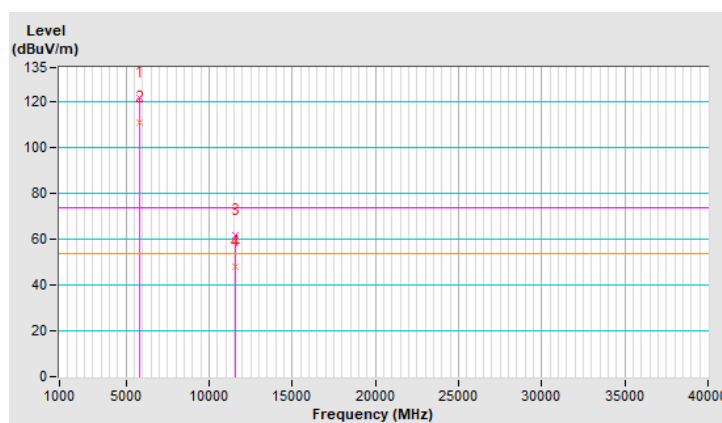


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	122.1 PK			1.44 V	139	81.9	40.2
2	*5785.00	111.1 AV			1.44 V	139	70.9	40.2
3	11570.00	61.5 PK	74.0	-12.5	1.52 V	8	43.0	18.5
4	11570.00	48.3 AV	54.0	-5.7	1.52 V	8	29.8	18.5
5	17355.00	-	-	-	-	-	-	-
6	23140.00	-	-	-	-	-	-	-
7	28925.00	-	-	-	-	-	-	-
8	34710.00	-	-	-	-	-	-	-

Remarks:

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

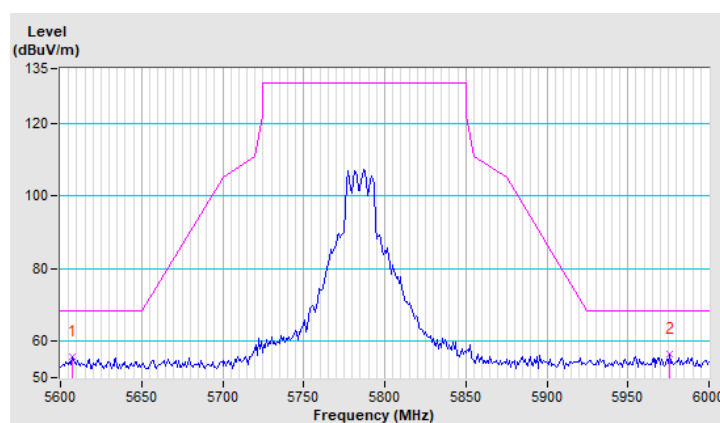


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157：5785 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5607.20	55.9 PK	68.2	-12.3	1.54 H	201	51.4	4.5
2	#5976.00	56.6 PK	68.2	-11.6	1.54 H	201	51.3	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

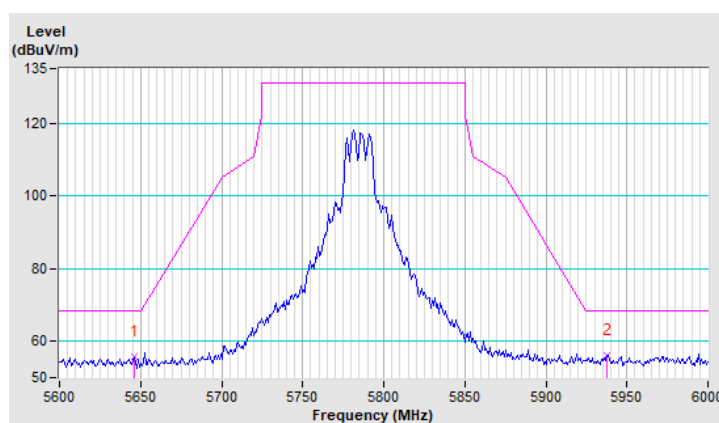


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5646.40	55.9 PK	68.2	-12.3	1.44 V	139	51.4	4.5
2	#5937.60	56.3 PK	68.2	-11.9	1.44 V	139	51.0	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

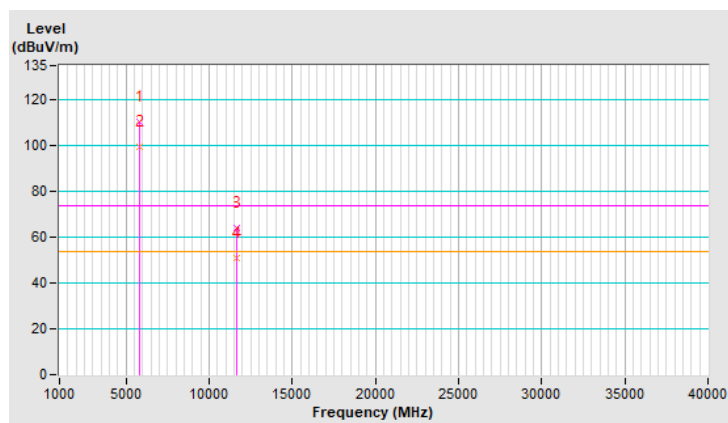


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	110.4 PK			1.50 H	201	70.0	40.4
2	*5825.00	99.5 AV			1.50 H	201	59.1	40.4
3	11650.00	64.1 PK	74.0	-9.9	1.52 H	200	45.6	18.5
4	11650.00	51.1 AV	54.0	-2.9	1.52 H	200	32.6	18.5
5	17475.00	-	-	-	-	-	-	-
6	23300.00	-	-	-	-	-	-	-
7	29125.00	-	-	-	-	-	-	-
8	34950.00	-	-	-	-	-	-	-

Remarks:

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

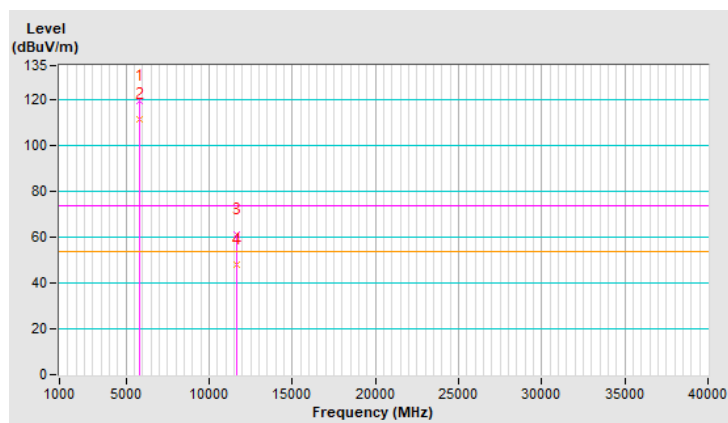


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	119.8 PK			1.00 V	205	79.4	40.4
2	*5825.00	111.3 AV			1.00 V	205	70.9	40.4
3	11650.00	61.2 PK	74.0	-12.8	1.52 V	10	42.7	18.5
4	11650.00	48.3 AV	54.0	-5.7	1.52 V	10	29.8	18.5
5	17475.00	-	-	-	-	-	-	-
6	23300.00	-	-	-	-	-	-	-
7	29125.00	-	-	-	-	-	-	-
8	34950.00	-	-	-	-	-	-	-

Remarks:

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

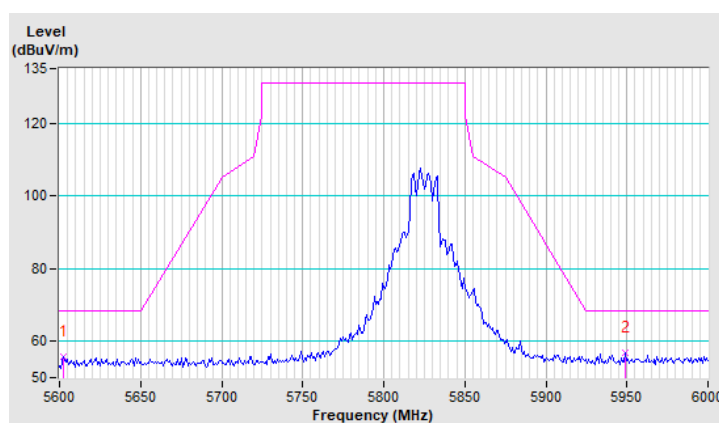


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165 : 5825 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5602.40	55.7 PK	68.2	-12.5	1.50 H	201	51.2	4.5
2	#5948.80	56.8 PK	68.2	-11.4	1.50 H	201	51.5	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

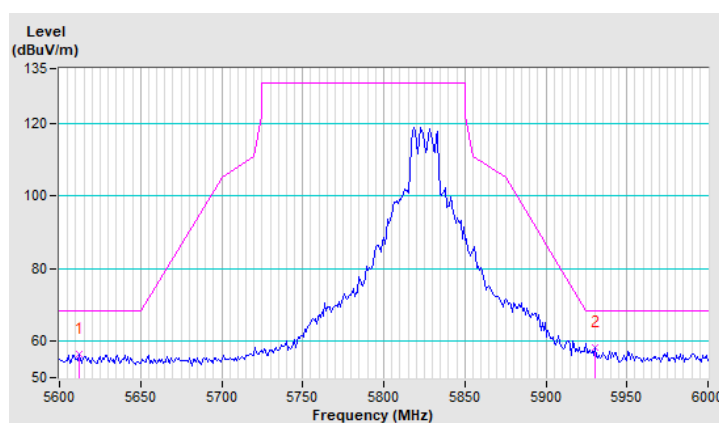


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5612.00	56.4 PK	68.2	-11.8	1.00 V	205	51.9	4.5
2	#5930.40	58.3 PK	68.2	-9.9	1.00 V	205	53.0	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



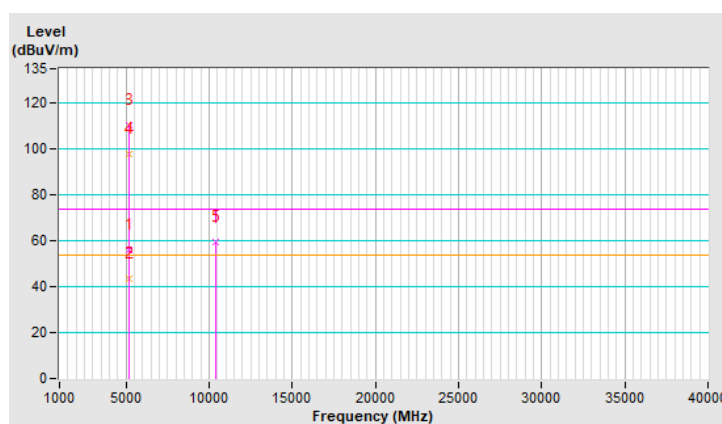
802.11ax (HE20)

操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	5147.00	55.8 PK	74.0	-18.2	1.52 H	348	51.8	4.0
2	5147.00	43.3 AV	54.0	-10.7	1.52 H	348	39.3	4.0
3	*5180.00	110.5 PK			1.52 H	348	71.2	39.3
4	*5180.00	97.8 AV			1.52 H	348	58.5	39.3
5	#10360.00	59.5 PK	68.2	-8.7	1.95 H	286	42.3	17.2
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

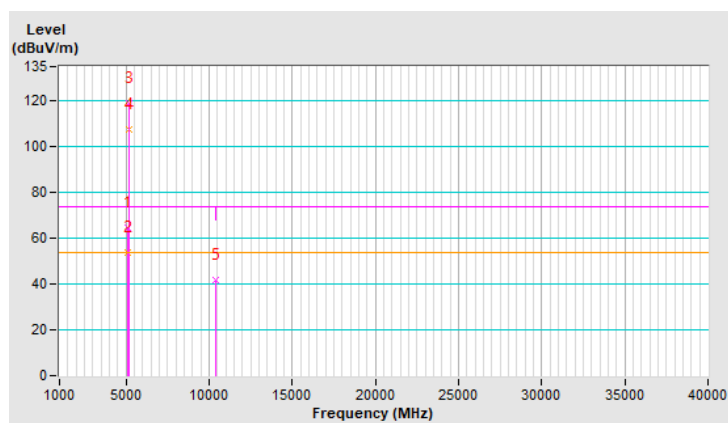


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	5144.00	64.5 PK	74.0	-9.5	1.00 V	61	25.2	39.3
2	5144.00	53.7 AV	54.0	-0.3	1.00 V	61	14.4	39.3
3	*5180.00	119.2 PK			1.00 V	61	79.9	39.3
4	*5180.00	107.6 AV			1.00 V	61	68.3	39.3
5	#10360.00	41.8 PK	68.2	-26.4	2.11 V	352	24.6	17.2
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

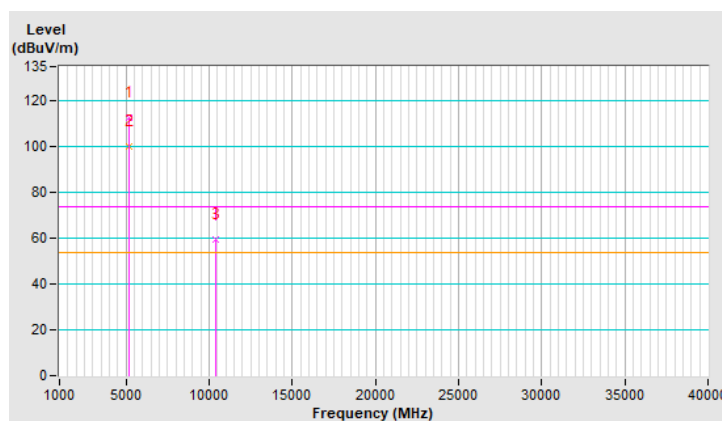


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	112.7 PK			1.26 H	351	73.4	39.3
2	*5200.00	100.0 AV			1.26 H	351	60.7	39.3
3	#10400.00	59.6 PK	68.2	-8.6	2.02 H	301	42.2	17.4
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

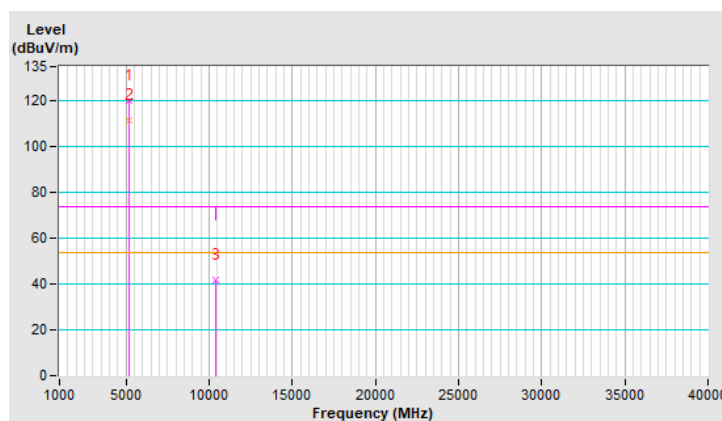


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	120.0 PK			1.00 V	58	80.7	39.3
2	*5200.00	111.3 AV			1.00 V	58	72.0	39.3
3	#10400.00	41.8 PK	68.2	-26.4	2.16 V	348	24.4	17.4
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

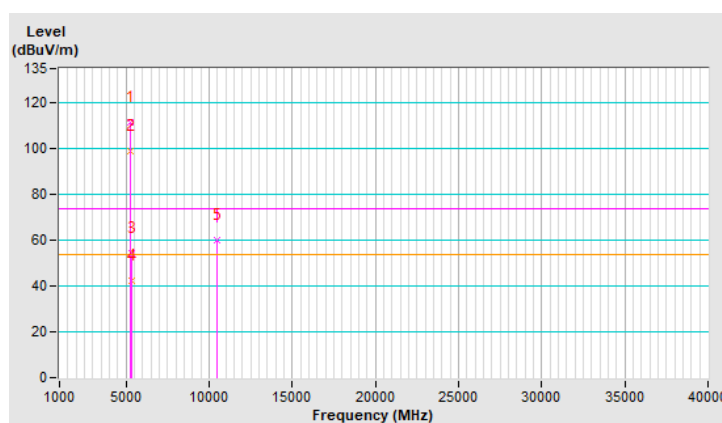


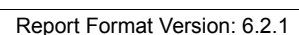
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	111.5 PK			1.29 H	351	72.4	39.1
2	*5240.00	98.8 AV			1.29 H	351	59.7	39.1
3	5350.00	54.6 PK	74.0	-19.4	1.29 H	351	50.5	4.1
4	5350.00	42.1 AV	54.0	-11.9	1.29 H	351	38.0	4.1
5	#10480.00	60.0 PK	68.2	-8.2	2.02 H	306	42.0	18.0
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.



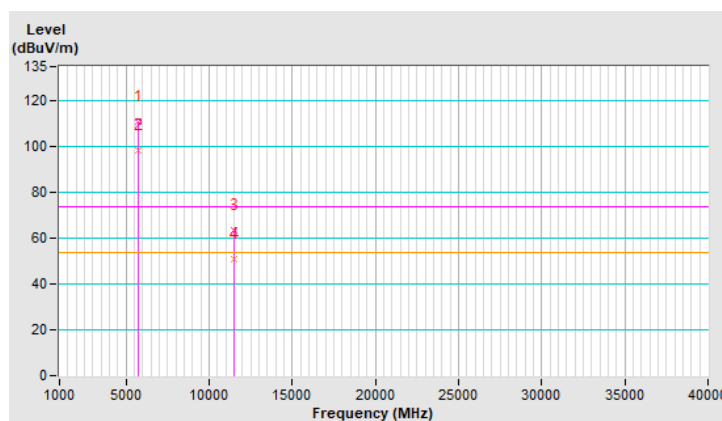


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	110.8 PK			1.77 H	278	70.8	40.0
2	*5745.00	98.4 AV			1.77 H	278	58.4	40.0
3	11490.00	63.5 PK	74.0	-10.5	1.56 H	201	44.7	18.8
4	11490.00	50.7 AV	54.0	-3.3	1.56 H	201	31.9	18.8
5	17235.00	-	-	-	-	-	-	-
6	22980.00	-	-	-	-	-	-	-
7	28725.00	-	-	-	-	-	-	-
8	34470.00	-	-	-	-	-	-	-

Remarks:

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

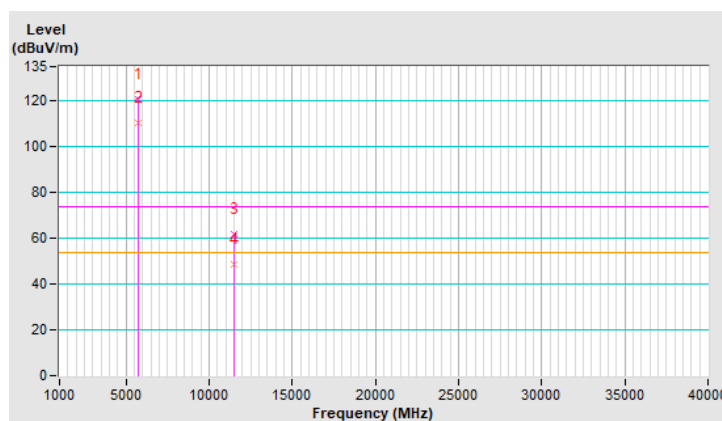


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	120.9 PK			1.00 V	188	80.9	40.0
2	*5745.00	110.3 AV			1.00 V	188	70.3	40.0
3	11490.00	61.8 PK	74.0	-12.2	1.52 V	8	43.0	18.8
4	11490.00	48.7 AV	54.0	-5.3	1.52 V	8	29.9	18.8
5	17235.00	-	-	-	-	-	-	-
6	22980.00	-	-	-	-	-	-	-
7	28725.00	-	-	-	-	-	-	-
8	34470.00	-	-	-	-	-	-	-

Remarks:

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

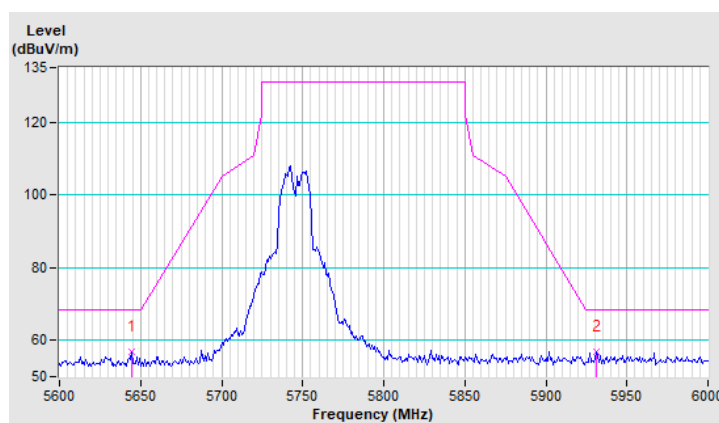


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 149：5745 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.80	56.8 PK	68.2	-11.4	1.77 H	278	52.3	4.5
2	#5931.20	56.8 PK	68.2	-11.4	1.77 H	278	51.5	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

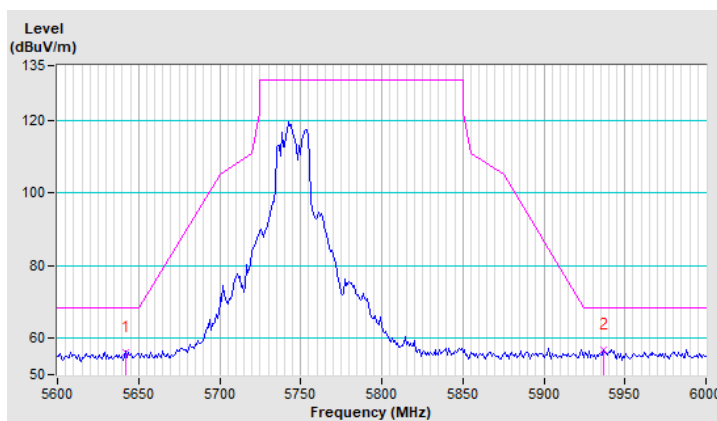


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 149：5745 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5642.40	56.3 PK	68.2	-11.9	1.00 V	188	51.8	4.5
2	#5936.80	57.0 PK	68.2	-11.2	1.00 V	188	51.7	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

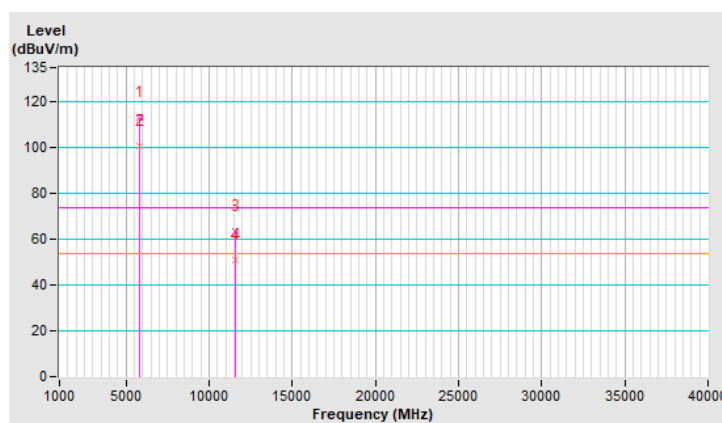


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	113.4 PK			1.95 H	233	73.2	40.2
2	*5785.00	100.4 AV			1.95 H	233	60.2	40.2
3	11570.00	63.5 PK	74.0	-10.5	1.56 H	203	45.0	18.5
4	11570.00	50.7 AV	54.0	-3.3	1.56 H	203	32.2	18.5
5	17355.00	-	-	-	-	-	-	-
6	23140.00	-	-	-	-	-	-	-
7	28925.00	-	-	-	-	-	-	-
8	34710.00	-	-	-	-	-	-	-

Remarks:

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

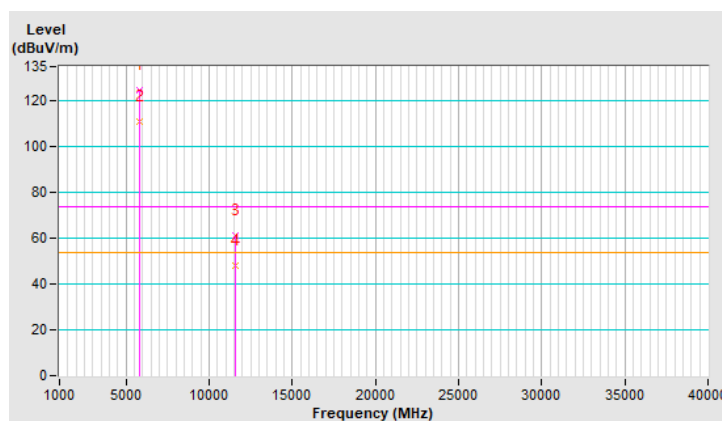


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 157：5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	124.5 PK			1.33 V	190	84.3	40.2
2	*5785.00	111.2 AV			1.33 V	190	71.0	40.2
3	11570.00	61.1 PK	74.0	-12.9	1.53 V	10	42.6	18.5
4	11570.00	48.3 AV	54.0	-5.7	1.53 V	10	29.8	18.5
5	17355.00	-	-	-	-	-	-	-
6	23140.00	-	-	-	-	-	-	-
7	28925.00	-	-	-	-	-	-	-
8	34710.00	-	-	-	-	-	-	-

Remarks:

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

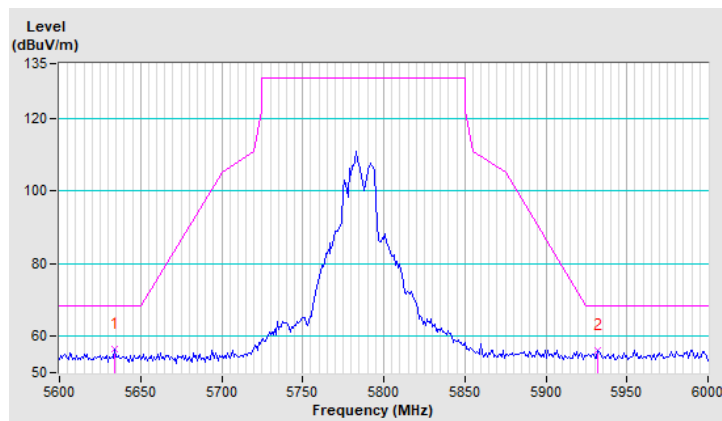


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 157 : 5785 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5634.40	56.6 PK	68.2	-11.6	1.95 H	233	52.1	4.5
2	#5932.00	56.1 PK	68.2	-12.1	1.95 H	233	50.8	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

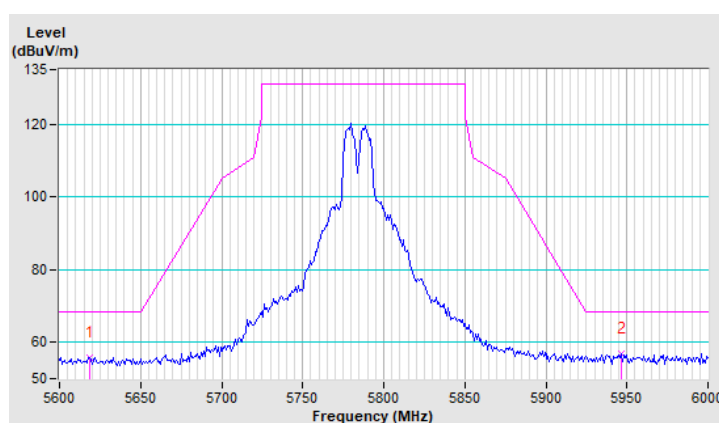


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 157：5785 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5618.40	55.8 PK	68.2	-12.4	1.33 V	190	51.3	4.5
2	#5946.40	57.0 PK	68.2	-11.2	1.33 V	190	51.7	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

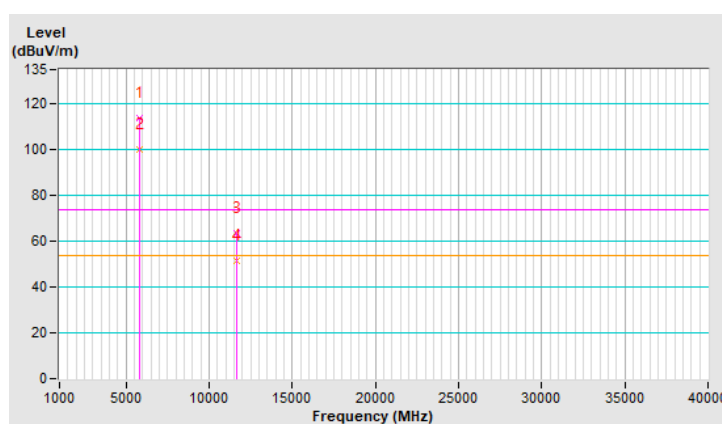


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	114.0 PK			1.94 H	231	73.6	40.4
2	*5825.00	100.2 AV			1.94 H	231	59.8	40.4
3	11650.00	63.5 PK	74.0	-10.5	1.57 H	206	45.0	18.5
4	11650.00	51.2 AV	54.0	-2.8	1.57 H	206	32.7	18.5
5	17475.00	-	-	-	-	-	-	-
6	23300.00	-	-	-	-	-	-	-
7	29125.00	-	-	-	-	-	-	-
8	34950.00	-	-	-	-	-	-	-

Remarks:

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

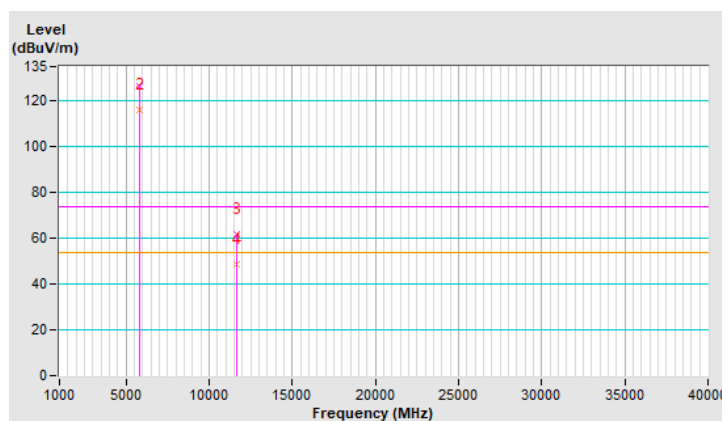


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	126.4 PK			1.00 V	176	121.2	5.2
2	*5825.00	116.1 AV			1.00 V	176	110.9	5.2
3	11650.00	61.5 PK	74.0	-12.5	1.59 V	13	43.0	18.5
4	11650.00	48.4 AV	54.0	-5.6	1.59 V	13	29.9	18.5
5	17475.00	-	-	-	-	-	-	-
6	23300.00	-	-	-	-	-	-	-
7	29125.00	-	-	-	-	-	-	-
8	34950.00	-	-	-	-	-	-	-

Remarks:

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

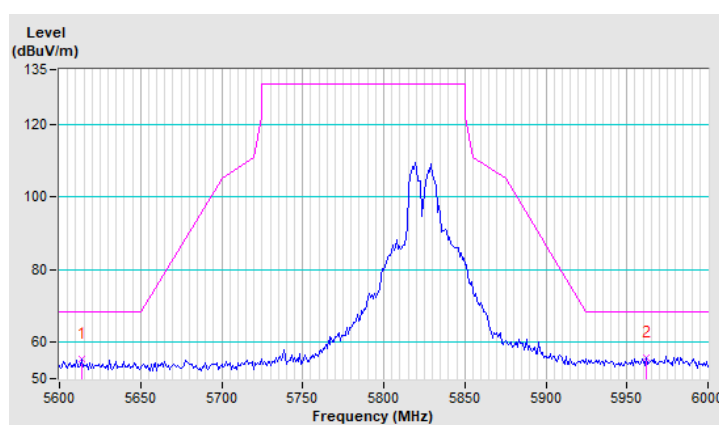


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165：5825 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5613.60	55.5 PK	68.2	-12.7	1.94 H	231	51.0	4.5
2	#5961.60	55.6 PK	68.2	-12.6	1.94 H	231	50.3	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

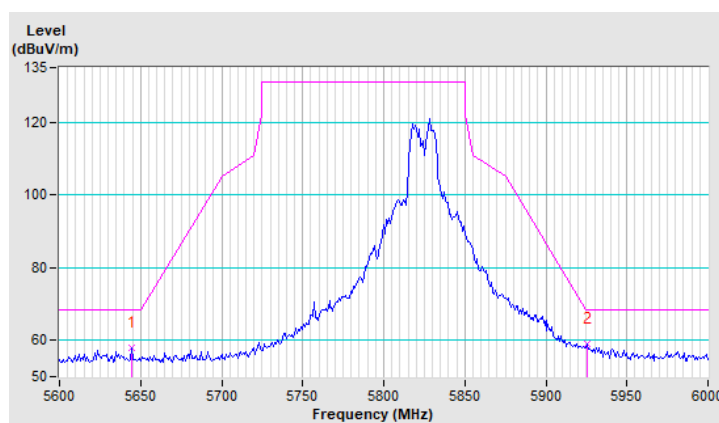


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165：5825 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5644.80	57.9 PK	68.2	-10.3	1.00 V	176	53.4	4.5
2	#5925.60	58.9 PK	68.2	-9.3	1.00 V	176	53.6	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
6. " # ": The radiated frequency is out of the restricted band.



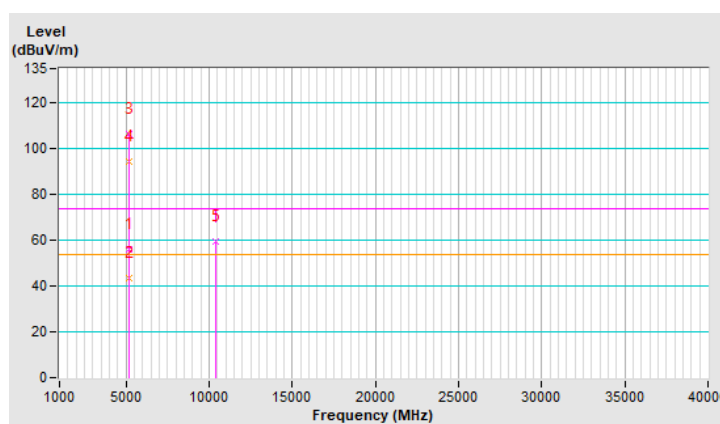
802.11ax (HE40)

操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 38 : 5190 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	5147.00	56.1 PK	74.0	-17.9	1.42 H	292	52.1	4.0
2	5147.00	43.2 AV	54.0	-10.8	1.42 H	292	39.2	4.0
3	*5190.00	106.5 PK			1.42 H	292	67.2	39.3
4	*5190.00	94.1 AV			1.42 H	292	54.8	39.3
5	#10380.00	59.4 PK	68.2	-8.8	2.02 H	311	42.0	17.4
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

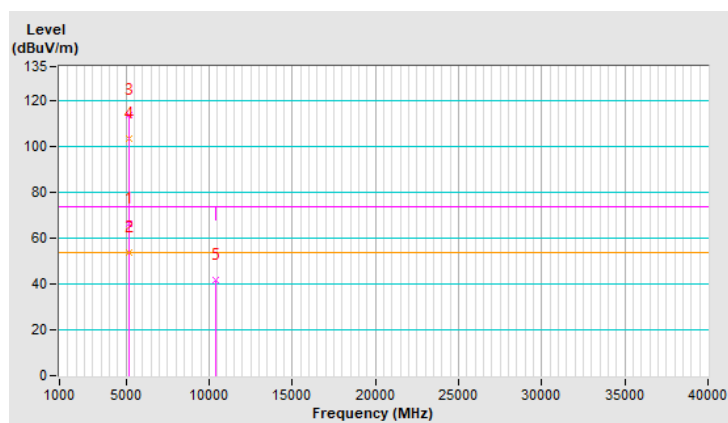


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 38：5190 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	5148.00	66.4 PK	74.0	-7.6	1.02 V	63	27.1	39.3
2	5148.00	53.6 AV	54.0	-0.4	1.02 V	63	14.3	39.3
3	*5190.00	113.7 PK			1.02 V	63	74.4	39.3
4	*5190.00	103.6 AV			1.02 V	63	64.3	39.3
5	#10380.00	41.9 PK	68.2	-26.3	2.10 V	341	24.5	17.4
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

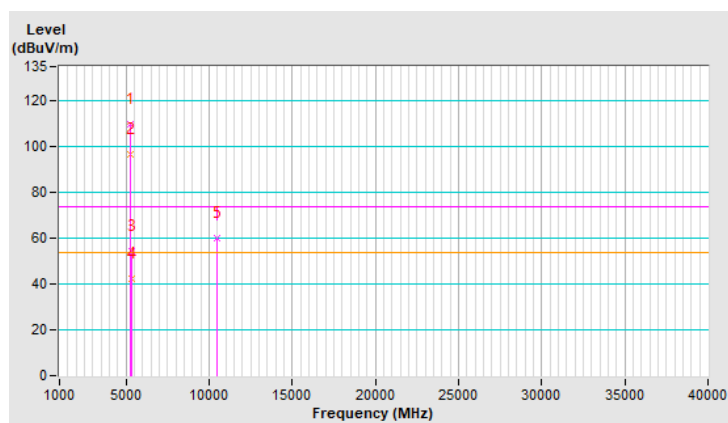


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	109.9 PK			1.46 H	290	70.8	39.1
2	*5230.00	96.6 AV			1.46 H	290	57.5	39.1
3	5350.00	54.6 PK	74.0	-19.4	1.46 H	290	50.5	4.1
4	5350.00	42.1 AV	54.0	-11.9	1.46 H	290	38.0	4.1
5	#10460.00	59.9 PK	68.2	-8.3	2.13 H	298	42.1	17.8
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

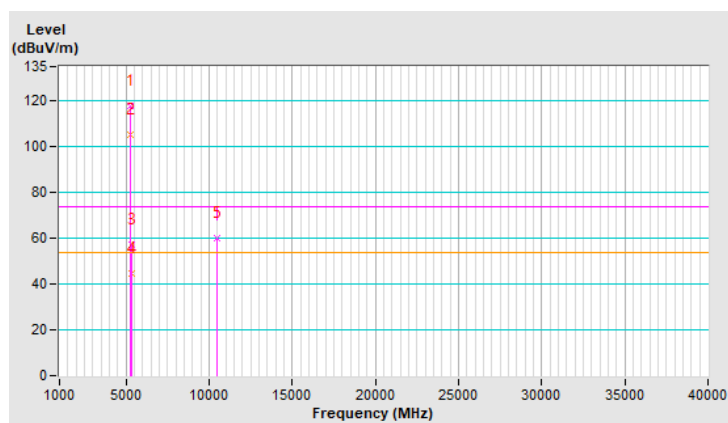


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	118.1 PK			1.68 V	312	79.0	39.1
2	*5230.00	105.3 AV			1.68 V	312	66.2	39.1
3	5375.00	57.0 PK	74.0	-17.0	1.68 V	312	52.8	4.2
4	5375.00	44.9 AV	54.0	-9.1	1.68 V	312	40.7	4.2
5	#10460.00	60.0 PK	68.2	-8.2	2.03 V	355	42.2	17.8
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

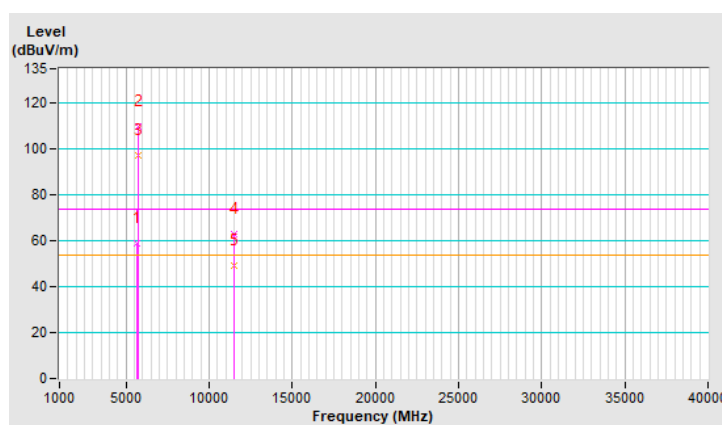


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	58.9 PK	68.2	-9.3	2.30 H	223	54.5	4.4
2	*5755.00	110.1 PK			2.30 H	223	70.1	40.0
3	*5755.00	97.4 AV			2.30 H	223	57.4	40.0
4	11510.00	62.8 PK	74.0	-11.2	1.45 H	204	43.9	18.9
5	11510.00	49.4 AV	54.0	-4.6	1.45 H	204	30.5	18.9
6	17265.00	-	-	-	-	-	-	-
7	23020.00	-	-	-	-	-	-	-
8	28775.00	-	-	-	-	-	-	-
9	34530.00	-	-	-	-	-	-	-

Remarks:

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

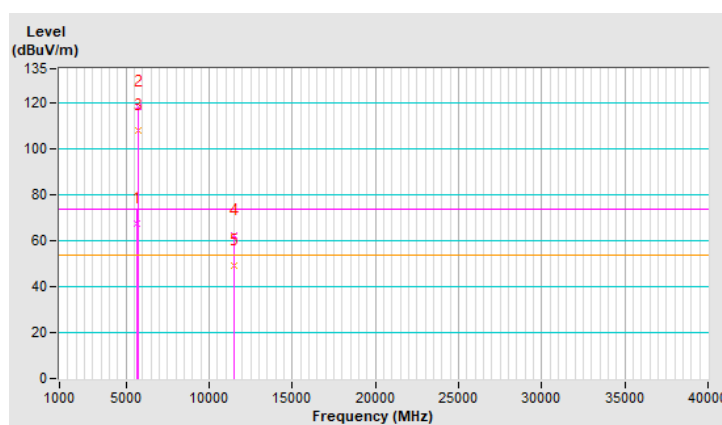


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5643.20	67.7 PK	68.2	-0.5	1.00 V	176	63.2	4.5
2	*5755.00	118.4 PK			1.00 V	176	78.4	40.0
3	*5755.00	108.3 AV			1.00 V	176	68.3	40.0
4	11510.00	62.3 PK	74.0	-11.7	1.63 V	13	43.4	18.9
5	11510.00	49.1 AV	54.0	-4.9	1.63 V	13	30.2	18.9
6	17265.00	-	-	-	-	-	-	-
7	23020.00	-	-	-	-	-	-	-
8	28775.00	-	-	-	-	-	-	-
9	34530.00	-	-	-	-	-	-	-

Remarks:

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

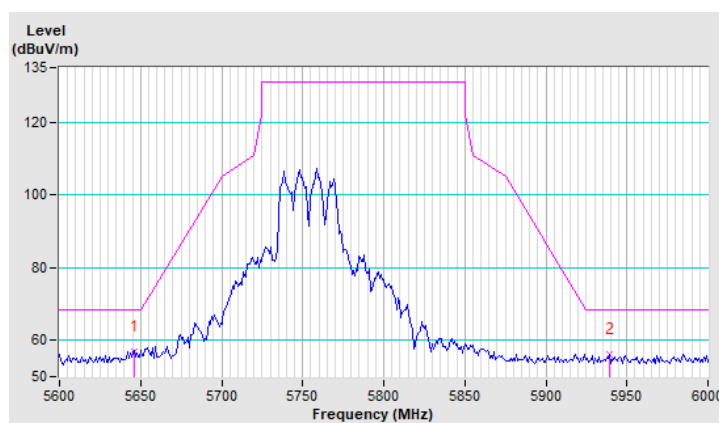


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 151 : 5755 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5646.40	57.0 PK	68.2	-11.2	2.30 H	223	52.5	4.5
2	#5939.20	56.0 PK	68.2	-12.2	2.30 H	223	50.7	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

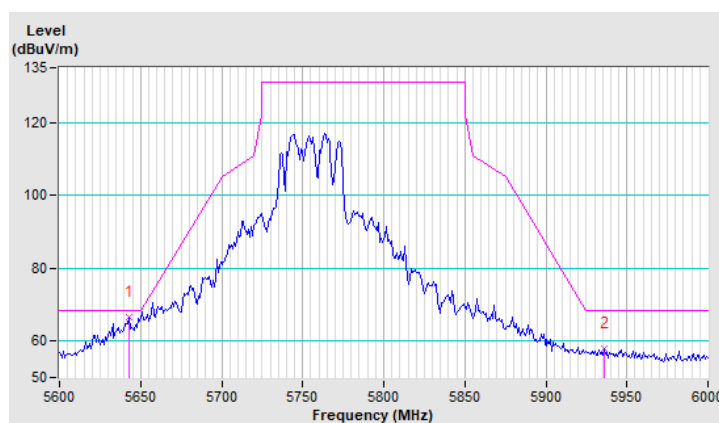


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 151 : 5755 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5643.30	66.7 PK	68.2	-1.5	1.00 V	176	62.2	4.5
2	#5936.00	57.9 PK	68.2	-10.3	1.00 V	176	52.6	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

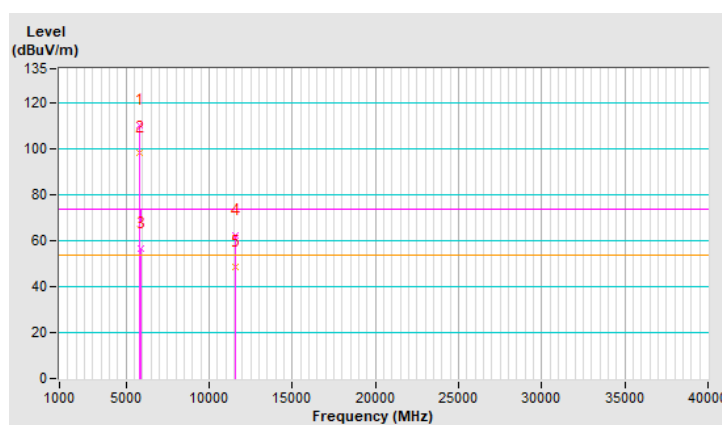


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 159：5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	110.5 PK			2.16 H	225	70.2	40.3
2	*5795.00	98.3 AV			2.16 H	225	58.0	40.3
3	#5925.00	56.5 PK	68.2	-11.7	2.16 H	225	51.2	5.3
4	11590.00	62.6 PK	74.0	-11.4	1.59 H	209	44.2	18.4
5	11590.00	48.9 AV	54.0	-5.1	1.59 H	209	30.5	18.4
6	17385.00	-	-	-	-	-	-	-
7	23180.00	-	-	-	-	-	-	-
8	28975.00	-	-	-	-	-	-	-
9	34770.00	-	-	-	-	-	-	-

Remarks:

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

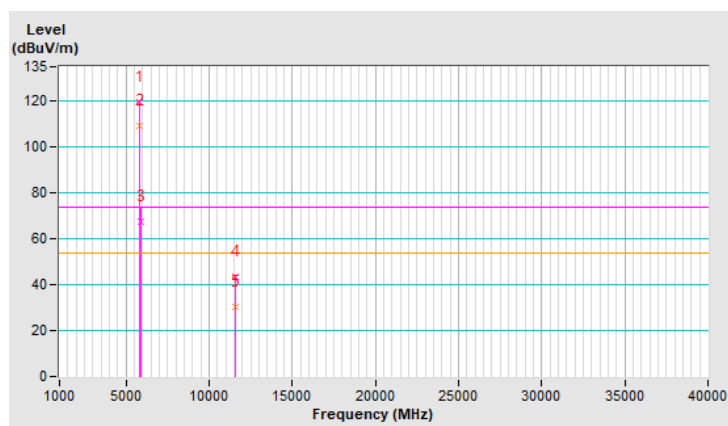


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 159：5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	119.4 PK			1.00 V	186	79.1	40.3
2	*5795.00	109.0 AV			1.00 V	186	68.7	40.3
3	#5926.40	67.7 PK	68.2	-0.5	1.00 V	186	62.4	5.3
4	11590.00	43.2 PK	74.0	-30.8	1.63 V	11	24.8	18.4
5	11590.00	30.1 AV	54.0	-23.9	1.63 V	11	11.7	18.4
6	17385.00	-	-	-	-	-	-	-
7	23180.00	-	-	-	-	-	-	-
8	28975.00	-	-	-	-	-	-	-
9	34770.00	-	-	-	-	-	-	-

Remarks:

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

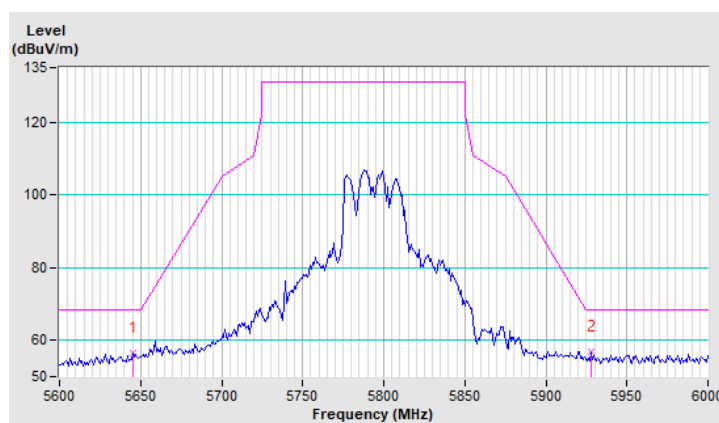


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 159 : 5795 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5645.60	56.6 PK	68.2	-11.6	2.16 H	225	52.1	4.5
2	#5928.00	56.7 PK	68.2	-11.5	2.16 H	225	51.4	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

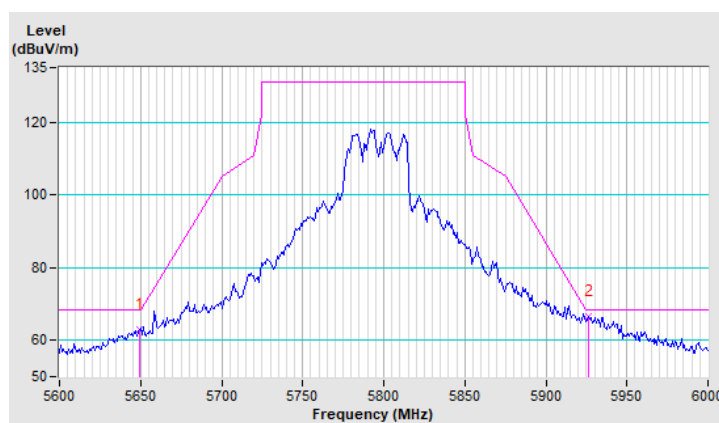


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 159 : 5795 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5649.60	63.0 PK	68.2	-5.2	1.00 V	186	58.5	4.5
2	#5926.50	66.7 PK	68.2	-1.5	1.00 V	186	61.4	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



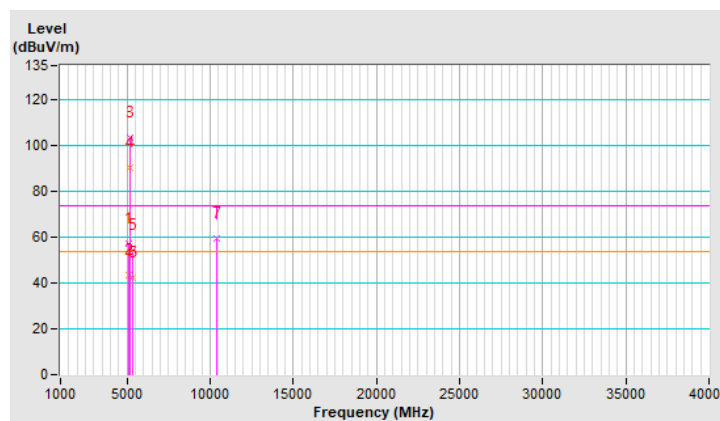
802.11ax (HE80)

操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 42 : 5210 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	5142.00	57.2 PK	74.0	-16.8	1.36 H	349	53.2	4.0
2	5142.00	43.5 AV	54.0	-10.5	1.36 H	349	39.5	4.0
3	*5210.00	103.4 PK			1.36 H	349	64.2	39.2
4	*5210.00	90.4 AV			1.36 H	349	51.2	39.2
5	5350.00	54.4 PK	74.0	-19.6	1.36 H	349	50.3	4.1
6	5350.00	42.1 AV	54.0	-11.9	1.36 H	349	38.0	4.1
7	#10420.00	59.5 PK	68.2	-8.7	2.20 H	313	41.9	17.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

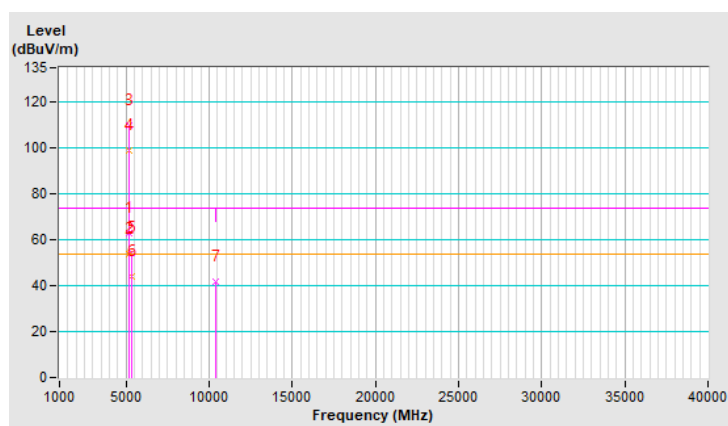


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 42：5210 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	5146.00	63.0 PK	74.0	-11.0	1.00 V	58	59.0	4.0
2	5146.00	53.5 AV	54.0	-0.5	1.00 V	58	49.5	4.0
3	*5210.00	109.8 PK			1.00 V	58	70.6	39.2
4	*5210.00	99.2 AV			1.00 V	58	60.0	39.2
5	5350.00	54.6 PK	74.0	-19.4	1.00 V	58	50.5	4.1
6	5350.00	43.8 AV	54.0	-10.2	1.00 V	58	39.7	4.1
7	#10420.00	42.0 PK	68.2	-26.2	2.02 V	342	24.4	17.6
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

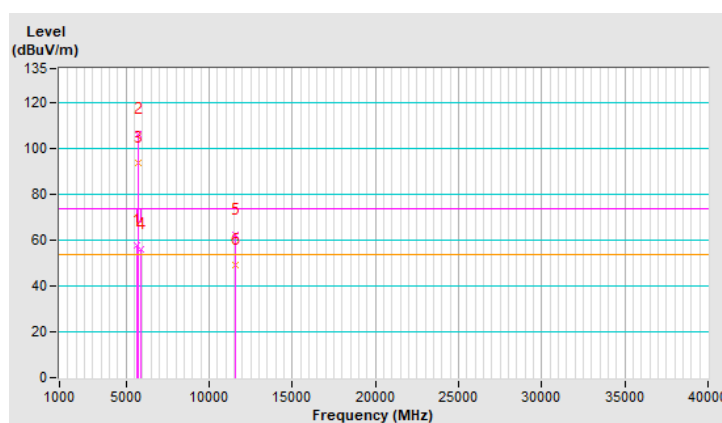


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 155：5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	57.7 PK	68.2	-10.5	1.14 H	224	53.3	4.4
2	*5775.00	106.4 PK			1.14 H	224	66.3	40.1
3	*5775.00	93.6 AV			1.14 H	224	53.5	40.1
4	#5925.00	56.2 PK	68.2	-12.0	1.14 H	224	50.9	5.3
5	11550.00	62.1 PK	74.0	-11.9	1.60 H	207	43.4	18.7
6	11550.00	49.0 AV	54.0	-5.0	1.60 H	207	30.3	18.7
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

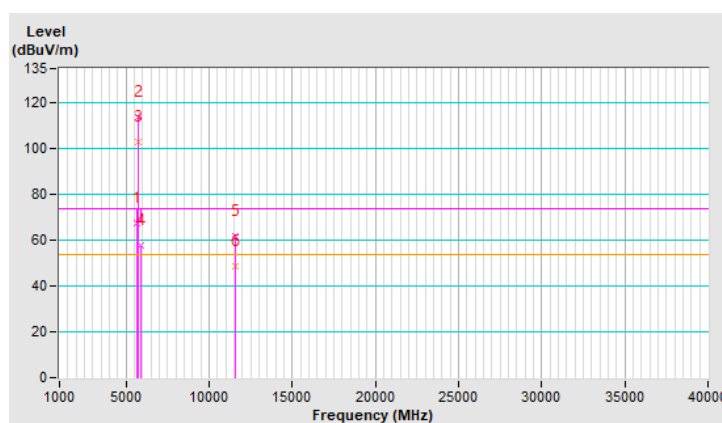


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 155：5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5644.00	67.4 PK	68.2	-0.8	1.00 V	188	62.9	4.5
2	*5775.00	113.7 PK			1.00 V	188	73.6	40.1
3	*5775.00	103.1 AV			1.00 V	188	63.0	40.1
4	#5925.00	57.7 PK	68.2	-10.5	1.00 V	188	52.4	5.3
5	11550.00	62.0 PK	74.0	-12.0	1.66 V	8	43.3	18.7
6	11550.00	48.9 AV	54.0	-5.1	1.66 V	8	30.2	18.7
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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power.

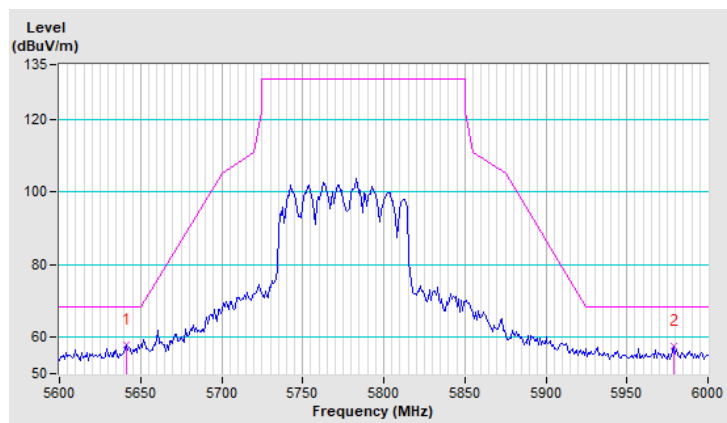


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 155：5775 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5641.60	58.0 PK	68.2	-10.2	1.14 H	224	53.5	4.5
2	#5979.20	57.4 PK	68.2	-10.8	1.14 H	224	52.1	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

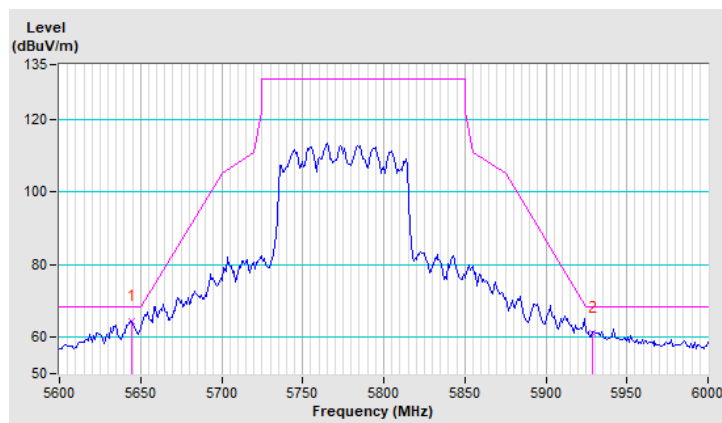


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 155：5775 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

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	#5644.20	64.5 PK	68.2	-3.7	1.00 V	188	60.0	4.5
2	#5928.80	61.2 PK	68.2	-7.0	1.00 V	188	55.9	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



9.6.2 接收諧波

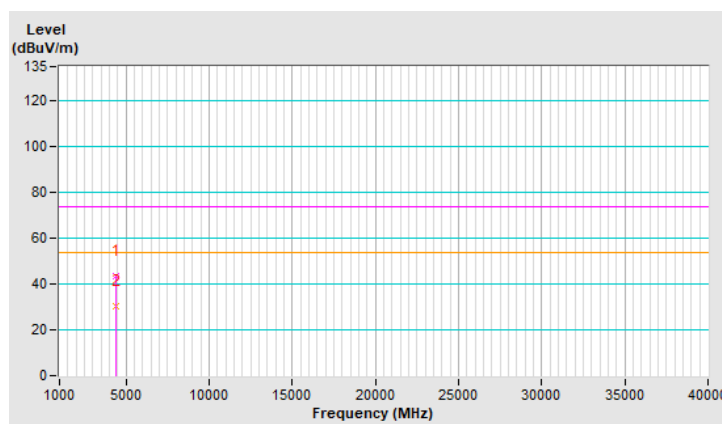
802.11ax (HE20)

操 作 模 式 :	接收		
基 本 波 頻 率 :	CH 165 : 5825 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz (RMS)
量測場地溫度 :	23°C	量測場地濕度 :	66%RH
測 試 日 期 :	109 年 04 月 24 日	測 試 者 :	許偉信

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	4369.00	43.3 PK	74.0	-30.7	3.01 H	149	41.8	1.5
2	4369.00	30.2 AV	54.0	-23.8	3.01 H	149	28.7	1.5

REMARKS:

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

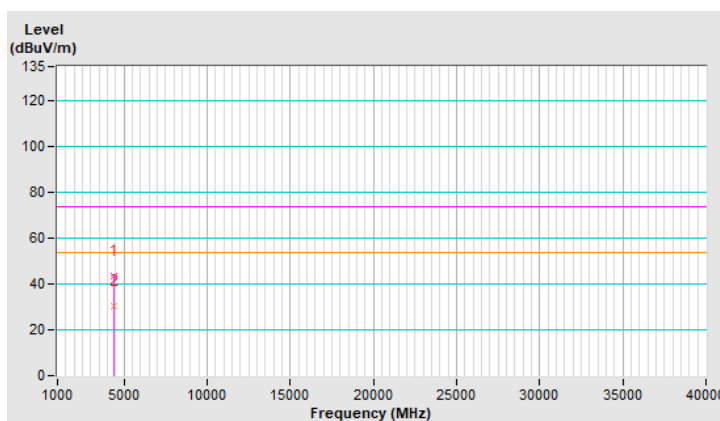


操作模式：	接收		
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz (RMS)
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	4369.00	43.3 PK	74.0	-30.7	3.16 V	228	41.8	1.5
2	4369.00	30.1 AV	54.0	-23.9	3.16 V	228	28.6	1.5

REMARKS:

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



9.6.3 其它不必要之訊號

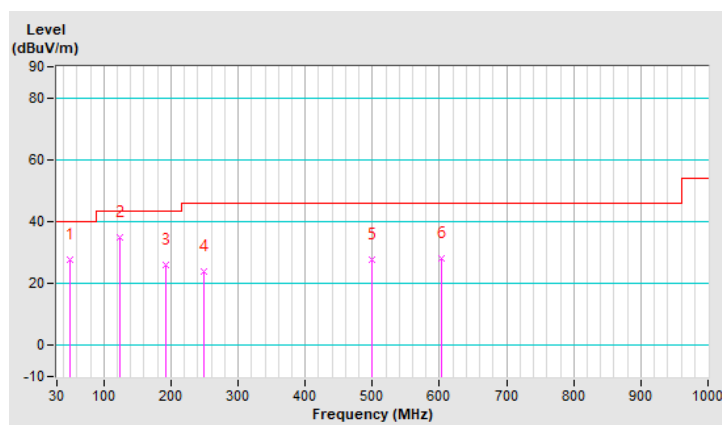
802.11ax (HE20)

操作模式：	發射/接收	調變技術：	OFDMA
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	49.68	27.8 QP	40.0	-12.2	2.00 H	293	36.6	-8.8
2	124.19	34.8 QP	43.5	-8.7	1.50 H	73	45.4	-10.6
3	193.07	25.9 QP	43.5	-17.6	1.00 H	257	37.4	-11.5
4	249.30	23.9 QP	46.0	-22.1	1.50 H	128	33.4	-9.5
5	499.54	27.6 QP	46.0	-18.4	1.50 H	143	29.1	-1.5
6	602.16	28.2 QP	46.0	-17.8	1.00 H	357	27.1	1.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.

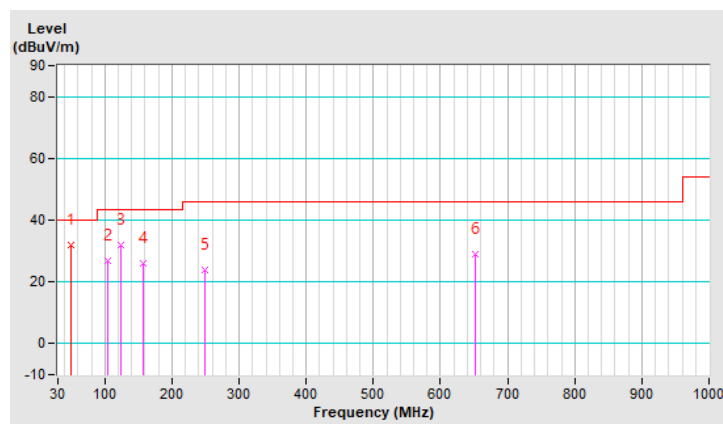


操作模式：	發射/接收	調變技術：	OFDMA
基本波頻率：	CH 165：5825 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	50.40	31.9 QP	40.0	-8.1	1.00 V	12	40.7	-8.8
2	104.51	26.9 QP	43.5	-16.6	1.50 V	10	39.3	-12.4
3	124.19	32.0 QP	43.5	-11.5	1.50 V	238	42.6	-10.6
4	157.93	25.9 QP	43.5	-17.6	1.50 V	66	34.4	-8.5
5	249.30	24.0 QP	46.0	-22.0	1.00 V	170	33.5	-9.5
6	652.77	28.8 QP	46.0	-17.2	1.50 V	250	27.3	1.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.



9.7 量測結果判定

依據測試數據結果，符合低功率射頻器材技術規範之要求。

9.8 配置照片

請參閱附件（測試設置照片）。

10 電源線傳導干擾之量測

10.1 適用標準

請見本報告3.1節第1項的規定。

10.2 量測方法

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

10.3 量測儀器

同 5.3 節。

10.4 測試配置

同 5.4 節。

10.5 干擾值之計算

同 5.5 節。

10.6 量測結果

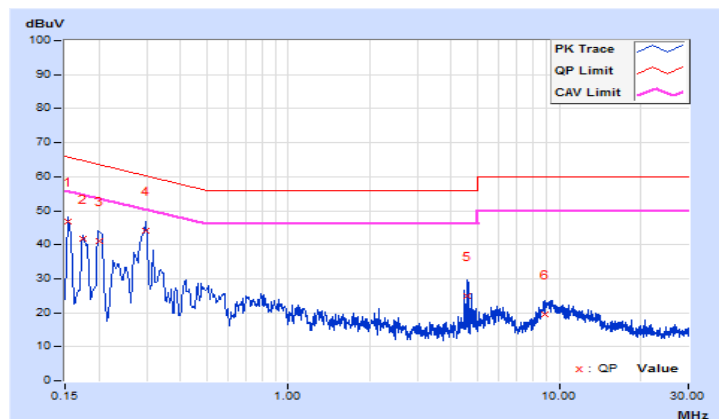
802.11ax (HE20)

操作模式	發射/接收	測試日期	109 年 04 月 27 日
基本波頻率	CH 165 : 5825 MHz	量測場地溫度	23°C
調變技術	OFDMA	量測場地濕度	67%RH
測試者	彭民達		

		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.
0.15400	9.63	40.25	23.92	49.88	33.55	65.78	55.78	-15.90	-22.23
0.19800	9.62	31.98	17.46	41.60	27.08	63.69	53.69	-22.09	-26.61
0.20200	9.62	31.33	17.38	40.95	27.00	63.53	53.53	-22.58	-26.53
0.29800	9.63	34.52	25.77	44.15	35.40	60.30	50.30	-16.15	-14.90
4.56200	9.80	15.20	1.54	25.00	11.34	56.00	46.00	-31.00	-34.66
8.91000	9.86	9.65	4.61	19.51	14.47	60.00	50.00	-40.49	-35.53

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.

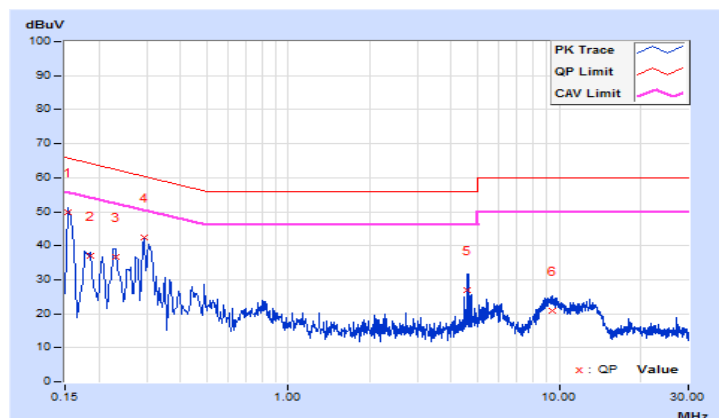


操作模式	發射/接收	測試日期	109 年 04 月 27 日
基本波頻率	CH 165 : 5825 MHz	量測場地溫度	23℃
調變技術	OFDMA	量測場地濕度	67%RH
測試者	彭民達		

		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.
0.15400	9.66	40.29	24.12	49.95	33.78	65.78	55.78	-15.83	-22.00
0.18568	9.65	33.25	16.09	42.90	25.74	64.23	54.23	-21.33	-28.49
0.23000	9.64	26.92	15.85	36.56	25.49	62.45	52.45	-25.89	-26.96
0.29400	9.65	32.70	23.18	42.35	32.83	60.41	50.41	-18.06	-17.58
4.56200	9.83	17.08	2.88	26.91	12.71	56.00	46.00	-29.09	-33.29
9.45800	9.90	11.14	6.52	21.04	16.42	60.00	50.00	-38.96	-33.58

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，符合低功率射頻器材技術規範之要求。

10.8 配置照片

請參閱附件（測試設置照片）。

11 峰值傳導輸出功率量測及發射頻寬之要求

11.1 適用標準

待測物操作頻帶	適用標準
☒ 5.15 GHz~5.25 GHz	☐ 請見本報告 3.1 節第 6 項(II)(A)及 4 項(II)(A)的規定(供戶外操作使用)
	☒ 請見本報告 3.1 節第 6 項(II)(A)及 4 項(II)(B)的規定(供室內操作使用)
	☐ 請見本報告 3.1 節第 6 項(II)(A)及 4 項(II)(C)的規定(供固定式點對點操作使用)
	☐ 請見本報告 3.1 節第 6 項(II)(B)及 4 項(II)(D)的規定(供用戶端裝置使用)
☐ 5.25 GHz~5.35 GHz	請見本報告 3.1 節第 6 項(III)及 4 項(III)的規定
☐ 5.470 GHz~5.725 GHz	請見本報告 3.1 節第 6 項(III)及 4 項(III)的規定
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 6 項(IV)及 4 項(IV)的規定

11.2 量測方法

輸出峰值功率量測方法:

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

發射頻寬量測方法:

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

11.3 量測儀器

峰值傳導輸出功率量測儀器:同7.3節。

發射頻寬之量測儀器: 同6.3節。

11.4 測試配置

峰值傳導輸出功率測試配置:同7.4節。

發射頻寬之測試配置: 同6.4節。

11.5 量測結果

操作模式	發射	測試日期	109 年 05 月 21 日
量測場地溫度	23°C	量測場地濕度	60%RH
測試者	曾健瑋		

Power Output:

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	24.32	23.92	517.000	27.13	30.00	Pass
40	5200	26.16	25.95	806.598	29.07	30.00	Pass
48	5240	26.34	26.01	829.552	29.19	30.00	Pass
149	5745	26.39	26.07	840.088	29.24	30.00	Pass
157	5785	26.59	26.01	855.062	29.32	30.00	Pass
165	5825	26.41	26.12	846.783	29.28	30.00	Pass

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	23.85	23.37	459.931	26.63	30.00	Pass
40	5200	26.43	25.89	827.692	29.18	30.00	Pass
48	5240	26.10	25.87	793.747	29.00	30.00	Pass
149	5745	26.08	25.94	798.153	29.02	30.00	Pass
157	5785	26.14	25.95	804.700	29.06	30.00	Pass
165	5825	26.46	25.79	821.903	29.15	30.00	Pass

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	22.30	21.90	324.706	25.11	30.00	Pass
46	5230	26.48	25.88	831.889	29.20	30.00	Pass
151	5755	26.79	26.02	877.474	29.43	30.00	Pass
159	5795	26.92	26.01	891.064	29.50	30.00	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	21.44	20.82	260.097	24.15	30.00	Pass
155	5775	23.91	23.37	463.307	26.66	30.00	Pass

802.11ax (HE20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	23.88	23.42	464.129	26.67	30.00	Pass
40	5200	26.45	25.97	836.937	29.23	30.00	Pass
48	5240	26.13	25.98	806.482	29.07	30.00	Pass
149	5745	26.13	25.98	806.482	29.07	30.00	Pass
157	5785	26.25	25.97	817.063	29.12	30.00	Pass
165	5825	26.48	25.89	832.782	29.21	30.00	Pass

802.11ax (HE40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	22.33	22.02	330.222	25.19	30.00	Pass
46	5230	26.54	25.96	845.274	29.27	30.00	Pass
151	5755	26.82	26.05	883.556	29.46	30.00	Pass
159	5795	27.01	26.10	909.723	29.59	30.00	Pass

802.11ax (HE80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	21.49	20.93	264.809	24.23	30.00	Pass
155	5775	23.94	23.45	469.052	26.71	30.00	Pass

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	23.85	23.37	459.931	26.63	29.99	Pass
40	5200	26.43	25.89	827.692	29.18	29.99	Pass
48	5240	26.10	25.87	793.747	29.00	29.99	Pass
149	5745	26.08	25.94	798.153	29.02	30.00	Pass
157	5785	26.14	25.95	804.700	29.06	30.00	Pass
165	5825	26.46	25.79	821.903	29.15	30.00	Pass

Note:

1. 5180-5240MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(6.01-6)=29.99\text{dBm}$
2. 5745-5825MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi} < 6\text{dBi}$, so the power limit is not reduced.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	22.30	21.90	324.706	25.11	29.99	Pass
46	5230	26.48	25.88	831.889	29.20	29.99	Pass
151	5755	26.79	26.02	877.474	29.43	30.00	Pass
159	5795	26.92	26.01	891.064	29.50	30.00	Pass

Note:

1. 5180-5240MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(6.01-6)=29.99\text{dBm}$
2. 5745-5825MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi} < 6\text{dBi}$, so the power limit is not reduced.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	21.44	20.82	260.097	24.15	29.99	Pass
155	5775	23.91	23.37	463.307	26.66	30.00	Pass

Note:

1. 5180-5240MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(6.01-6)=29.99\text{dBm}$
2. 5745-5825MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi} < 6\text{dBi}$, so the power limit is not reduced.

802.11ax (HE20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	23.88	23.42	464.129	26.67	29.99	Pass
40	5200	26.45	25.97	836.937	29.23	29.99	Pass
48	5240	26.13	25.98	806.482	29.07	29.99	Pass
149	5745	26.13	25.98	806.482	29.07	30.00	Pass
157	5785	26.25	25.97	817.063	29.12	30.00	Pass
165	5825	26.48	25.89	832.782	29.21	30.00	Pass

Note:

1. 5180-5240MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(6.01-6)=29.99\text{dBm}$
2. 5745-5825MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi} < 6\text{dBi}$, so the power limit is not reduced.

802.11ax (HE40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	22.33	22.02	330.222	25.19	29.99	Pass
46	5230	26.54	25.96	845.274	29.27	29.99	Pass
151	5755	26.82	26.05	883.556	29.46	30.00	Pass
159	5795	27.01	26.10	909.723	29.59	30.00	Pass

Note:

1. 5180-5240MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(6.01-6)=29.99\text{dBm}$
2. 5745-5825MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi} < 6\text{dBi}$, so the power limit is not reduced.

802.11ax (HE80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	21.49	20.93	264.809	24.23	29.99	Pass
155	5775	23.94	23.45	469.052	26.71	30.00	Pass

Note:

1. 5180-5240MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(6.01-6)=29.99\text{dBm}$
2. 5745-5825MHz: Beamforming Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi} < 6\text{dBi}$, so the power limit is not reduced.

26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	20.77	20.75
40	5200	25.28	22.64
48	5240	22.98	21.34

802.11ax (HE20)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	21.77	22.02
40	5200	25.40	24.39
48	5240	22.18	22.43

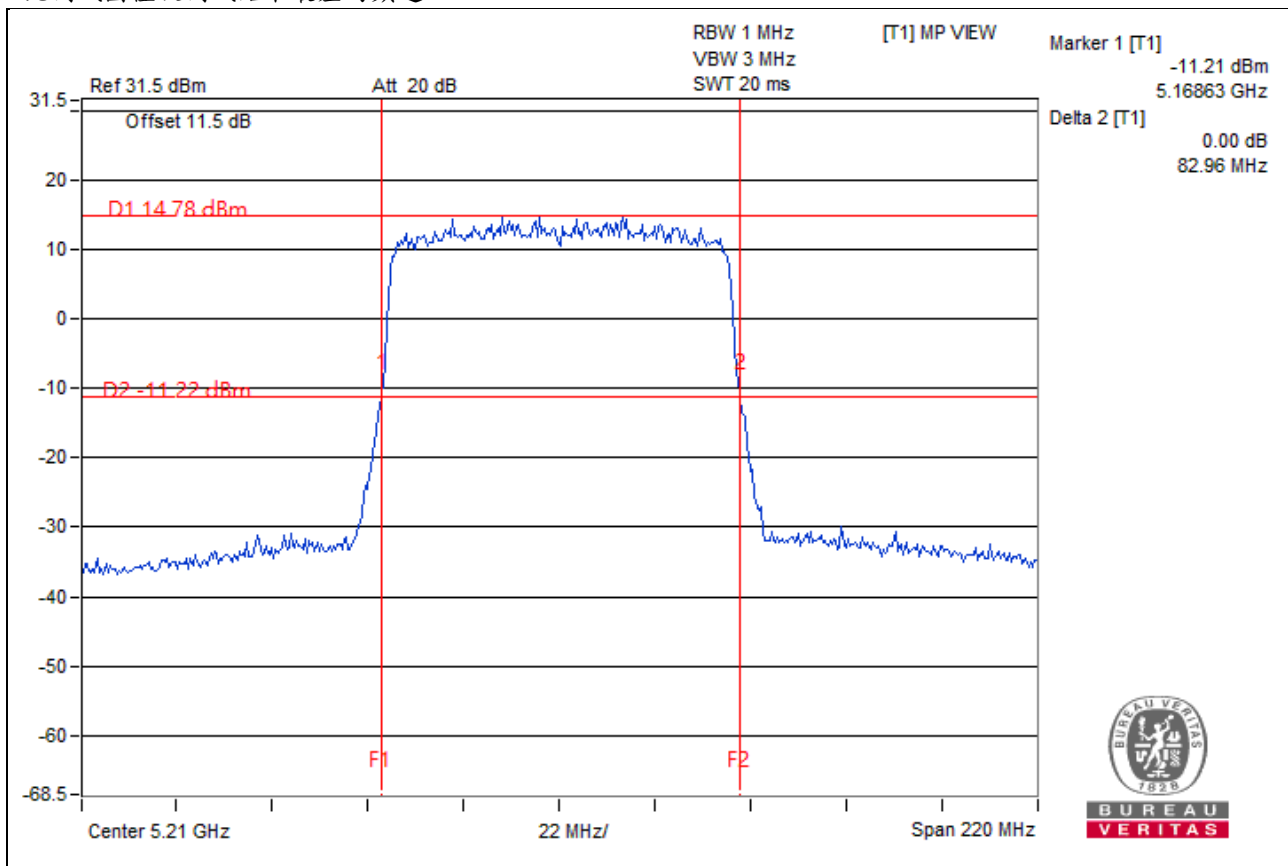
802.11ax (HE40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	42.27	41.92
46	5230	58.65	48.69

802.11ax (HE80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	82.96	82.93

**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，符合低功率射頻器材技術規範之要求。

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) (A)及 4 項(II)(A)的規定(供戶外操作使用)
	☒ 請見本報告 3.1 節第 7 項(II)(A)及 4 項(II)(B)的規定(供室內操作使用)
	☐ 請見本報告 3.1 節第 7 項(II)(A)及 4 項(II)(C)的規定(供固定式點對點操作使用)
	☐ 請見本報告 3.1 節第 7 項(II)(B)及 4 項(II)(D)的規定(供用戶端裝置使用)
☐ 5.25 GHz~5.35 GHz	請見本報告 3.1 節第 7 項(III)及 4 項(III)的規定
☐ 5.470 GHz~5.725 GHz	請見本報告 3.1 節第 7 項(III)及 4 項(III)的規定
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 7 項(IV)及 4 項(IV)的規定

12.2 量測方法

For 5180 ~ 5240MHz:

Using method SA-2, Duty cycle <98%

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW $\geq$ 3MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 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 and add 10 log (1/duty cycle)

For 5745 ~ 5825MHz:

Duty cycle <98%

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

12.3 量測儀器

同 8.3 節。

12.4 測試配置

同 8.4 節。

12.5 量測結果

操作模式	發射	測試日期	109 年 05 月 21 日
量測場地溫度	23°C	量測場地濕度	60%RH
測試者	曾健瑋		

5.150 GHz~5.250 GHz

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	10.71	10.34	0.31	13.85	16.99	Pass
40	5200	12.82	12.10	0.31	15.80	16.99	Pass
48	5240	12.51	11.97	0.31	15.57	16.99	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (6.01 - 6) = 16.99\text{dBm}$
- Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	9.73	8.90	0.41	12.76	16.99	Pass
40	5200	11.15	10.44	0.41	14.23	16.99	Pass
48	5240	11.39	10.30	0.41	14.30	16.99	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (6.01 - 6) = 16.99\text{dBm}$
- Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	5.17	4.49	0.22	8.07	16.99	Pass
46	5230	8.75	8.64	0.22	11.93	16.99	Pass

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01 \text{ dBi} > 6 \text{ dBi}$, so the power density limit shall be reduced to $17 - (6.01 - 6) = 16.99 \text{ dBm}$
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE80)

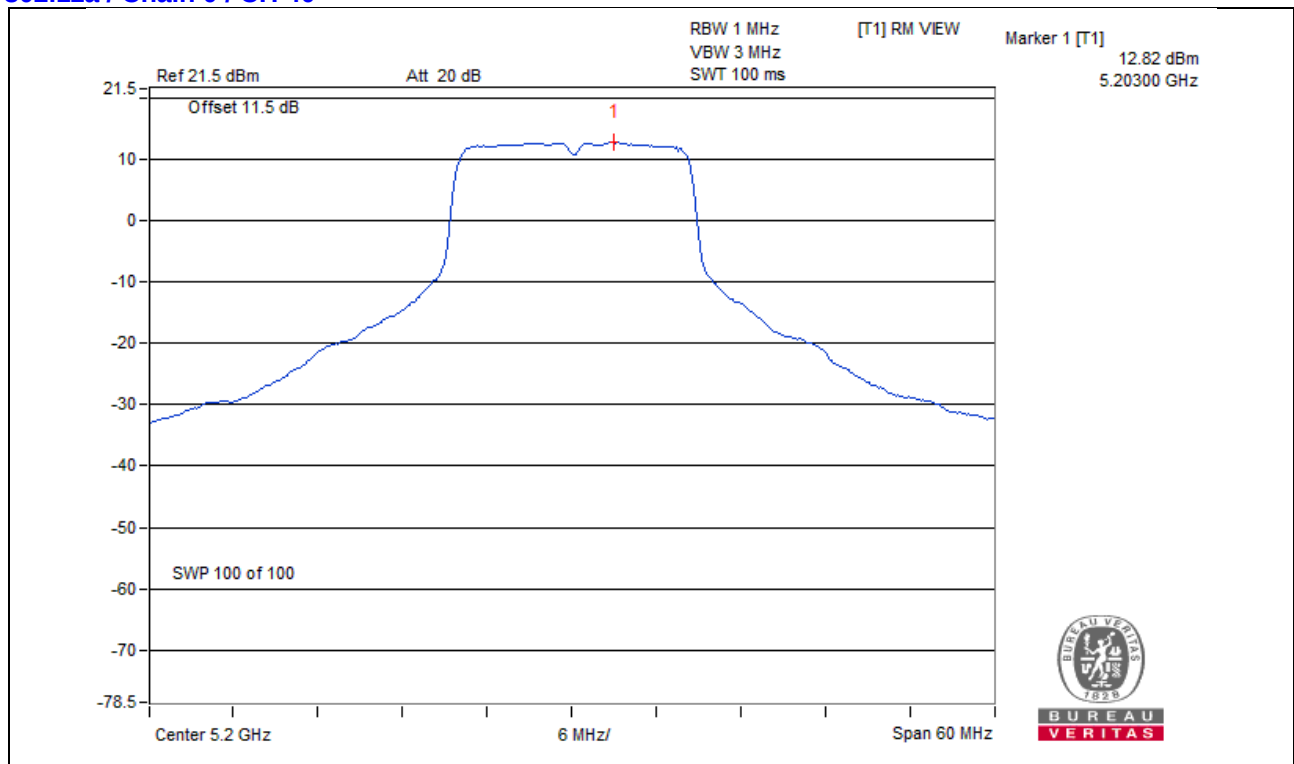
Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	1.40	0.18	0.29	4.13	16.99	Pass

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01 \text{ dBi} > 6 \text{ dBi}$, so the power density limit shall be reduced to $17 - (6.01 - 6) = 16.99 \text{ dBm}$
3. Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。

802.11a / Chain 0 / CH 40



5.725 GHz~5.850 GHz

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	3.62	5.84	3.01	0.31	9.16	30.00	Pass
	157	5785	3.89	6.11	3.01	0.31	9.43	30.00	Pass
	165	5825	3.81	6.03	3.01	0.31	9.35	30.00	Pass
1	149	5745	4.44	6.66	3.01	0.31	9.98	30.00	Pass
	157	5785	4.48	6.70	3.01	0.31	10.02	30.00	Pass
	165	5825	4.32	6.54	3.01	0.31	9.86	30.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi} < 6\text{dBi}$, so the power density limit is not reduced.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	1.72	3.94	3.01	0.41	7.36	30.00	Pass
	157	5785	2.20	4.42	3.01	0.41	7.84	30.00	Pass
	165	5825	2.01	4.23	3.01	0.41	7.65	30.00	Pass
1	149	5745	2.36	4.58	3.01	0.41	8.00	30.00	Pass
	157	5785	2.58	4.80	3.01	0.41	8.22	30.00	Pass
	165	5825	2.39	4.61	3.01	0.41	8.03	30.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi} < 6\text{dBi}$, so the power density limit is not reduced.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-0.39	1.83	3.01	0.22	5.06	30.00	Pass
	159	5795	-0.24	1.98	3.01	0.22	5.21	30.00	Pass
1	151	5755	-0.17	2.05	3.01	0.22	5.28	30.00	Pass
	159	5795	0.11	2.33	3.01	0.22	5.56	30.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi} < 6\text{dBi}$, so the power density limit is not reduced.
3. Refer to section 2.1 for duty cycle spectrum plot.

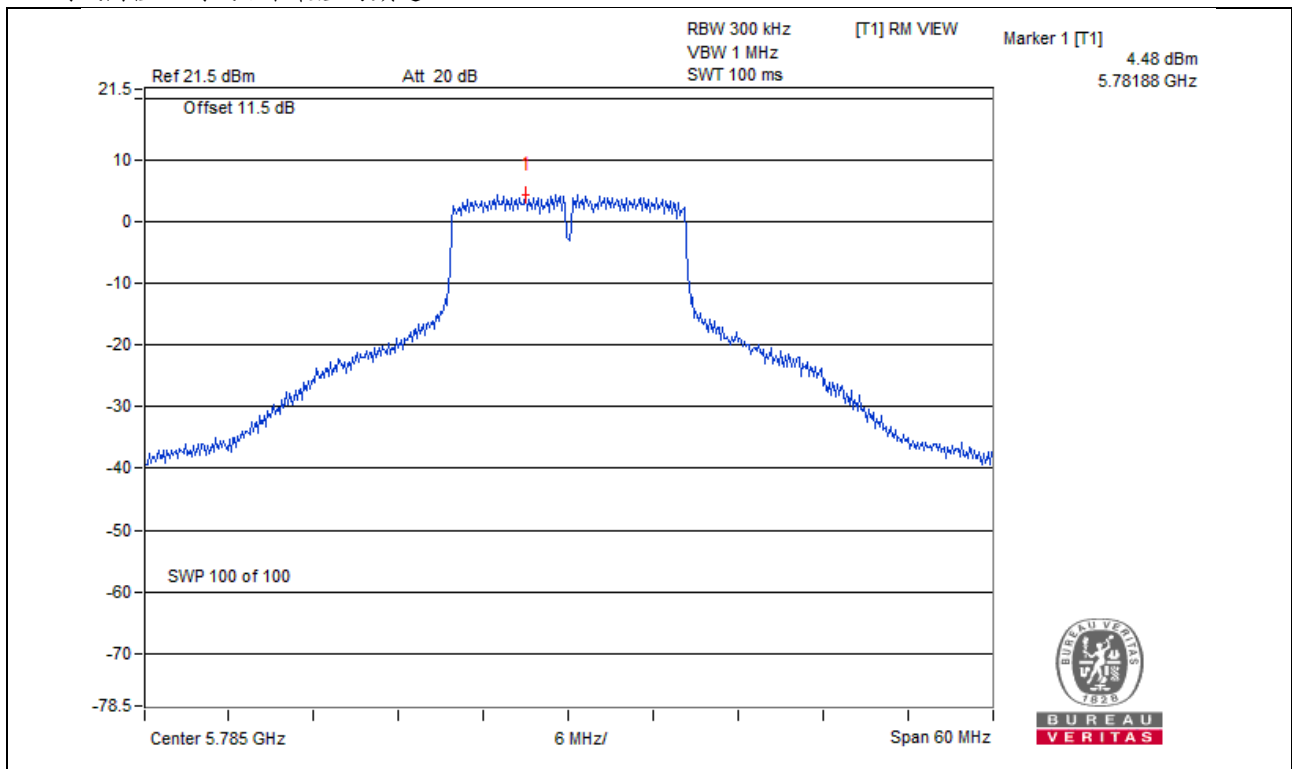
802.11ax (HE80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-6.10	-3.88	3.01	0.29	-0.58	30.00	Pass
1	155	5775	-5.62	-3.40	3.01	0.29	-0.10	30.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi} < 6\text{dBi}$, so the power density limit is not reduced.
3. Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



12.6 量測結果判定

依據測試數據結果，符合低功率射頻器材技術規範之要求。

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

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

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 05 月 21 日
量測場地溫度	23°C	量測場地濕度	60%RH
測試者	曾健瑋		

802.11a

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	15.82	15.45	0.5	Pass
157	5785	16.13	16.32	0.5	Pass
165	5825	15.82	16.34	0.5	Pass

802.11ax (HE20)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	18.51	17.78	0.5	Pass
157	5785	18.50	18.44	0.5	Pass
165	5825	18.36	18.35	0.5	Pass

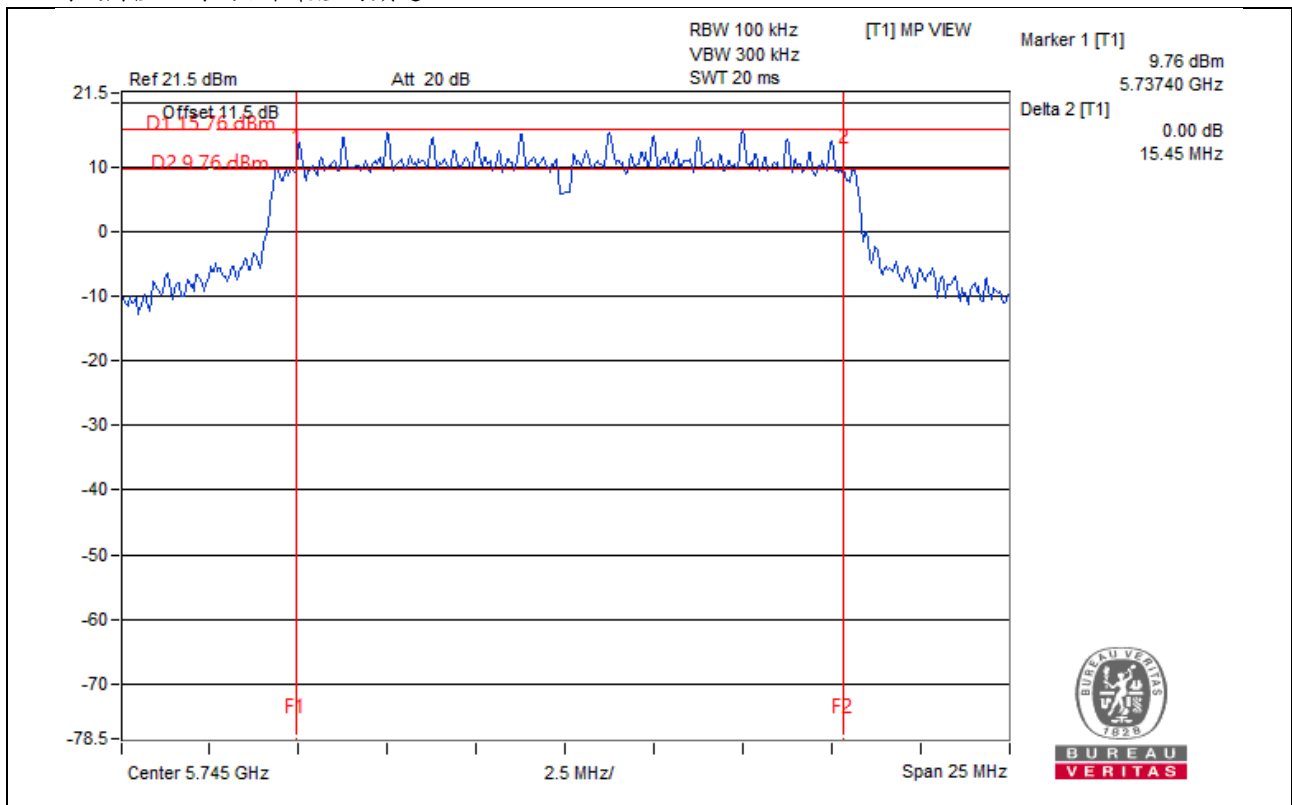
802.11ax (HE40)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	38.06	37.99	0.5	Pass
159	5795	38.10	37.91	0.5	Pass

802.11ax (HE80)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.49	76.27	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，符合低功率射頻器材技術規範之要求。

Co-Located 測試項目及結果

14 場強輻射及開放頻帶邊緣之量測

14.1 適用標準

請見本報告3.1節第2項的規定。

14.2 量測方法

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

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

14.3 量測儀器

同4.3節

14.4 測試配置

同4.4節。

14.5 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。

14.6 量測結果

14.6.1 發射諧波

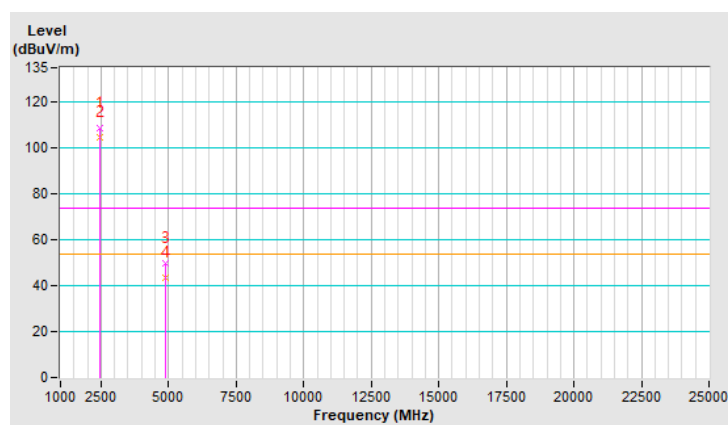
802.11b: Ch 6 + 802.11ax (HE20): Ch 165

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=3kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.9 PK			1.96 H	143	76.6	32.3
2	*2437.00	104.9 AV			1.96 H	143	72.6	32.3
3	4874.00	49.7 PK	74.0	-24.3	2.07 H	320	46.0	3.7
4	4874.00	43.6 AV	54.0	-10.4	2.07 H	320	39.9	3.7
5	7311.00	-	-	-	-	-	-	-
6	9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	14622.00	-	-	-	-	-	-	-
9	17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	21933.00	-	-	-	-	-	-	-
12	24370.00	-	-	-	-	-	-	-

Remarks:

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

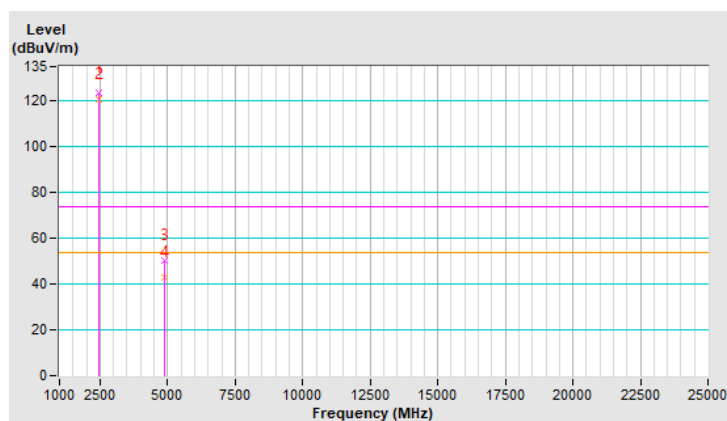


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	123.3 PK			2.33 V	22	91.0	32.3
2	*2437.00	120.6 AV			2.33 V	22	88.3	32.3
3	4874.00	50.1 PK	74.0	-23.9	1.59 V	180	46.4	3.7
4	4874.00	43.0 AV	54.0	-11.0	1.59 V	180	39.3	3.7
5	7311.00	-	-	-	-	-	-	-
6	9748.00	-	-	-	-	-	-	-
7	12185.00	-	-	-	-	-	-	-
8	14622.00	-	-	-	-	-	-	-
9	17059.00	-	-	-	-	-	-	-
10	19496.00	-	-	-	-	-	-	-
11	21933.00	-	-	-	-	-	-	-
12	24370.00	-	-	-	-	-	-	-

Remarks:

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

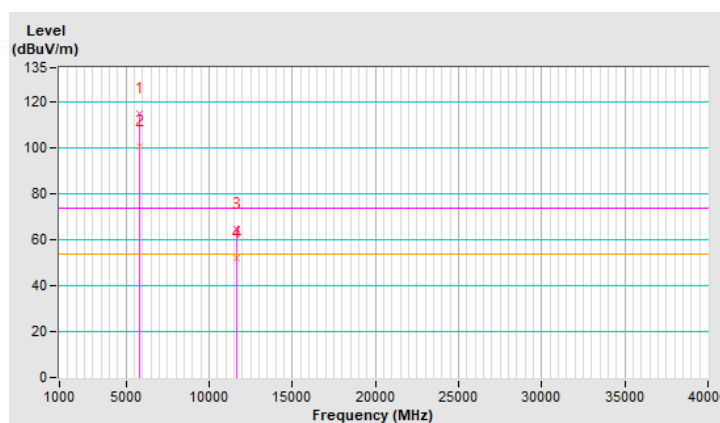


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	114.7 PK			2.12 H	201	74.3	40.4
2	*5825.00	100.5 AV			2.12 H	201	60.1	40.4
3	11650.00	64.6 PK	74.0	-9.4	1.77 H	301	46.1	18.5
4	11650.00	52.2 AV	54.0	-1.8	1.77 H	301	33.7	18.5
5	17475.00	-	-	-	-	-	-	-
6	23300.00	-	-	-	-	-	-	-
7	29125.00	-	-	-	-	-	-	-
8	34950.00	-	-	-	-	-	-	-

Remarks:

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

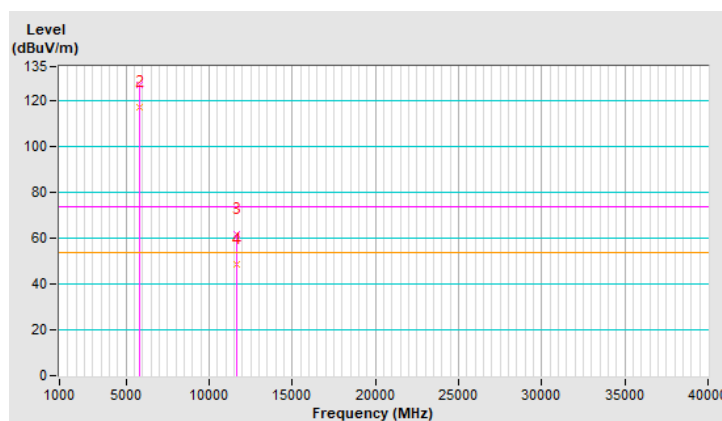


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 23 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	126.9 PK			1.50 V	211	86.5	40.4
2	*5825.00	117.1 AV			1.50 V	211	76.7	40.4
3	11650.00	62.0 PK	74.0	-12.0	2.09 V	0	43.5	18.5
4	11650.00	48.9 AV	54.0	-5.1	2.09 V	0	30.4	18.5
5	17475.00	-	-	-	-	-	-	-
6	23300.00	-	-	-	-	-	-	-
7	29125.00	-	-	-	-	-	-	-
8	34950.00	-	-	-	-	-	-	-

Remarks:

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

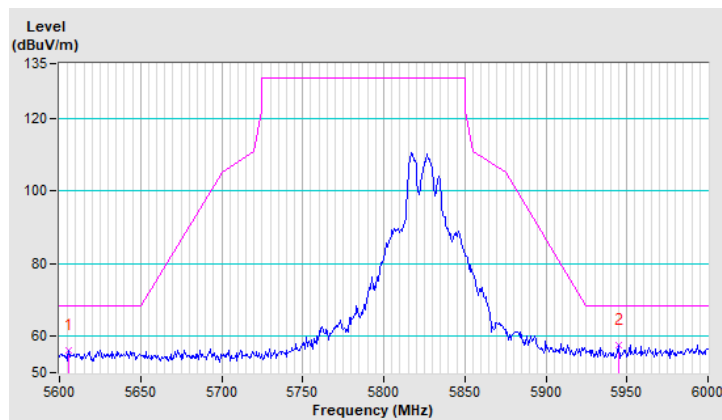


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165：5825 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 05 月 22 日	測試者：	許偉信

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	#5605.77	56.2 PK	68.2	-12.0	2.12 H	201	51.7	4.5
2	#5944.87	57.5 PK	68.2	-10.7	2.12 H	201	52.2	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

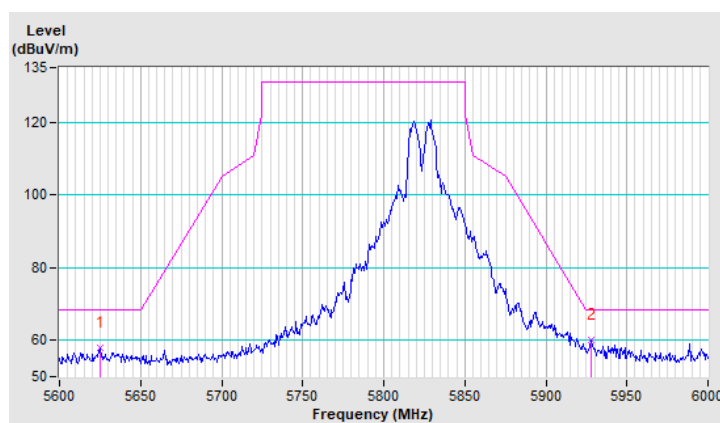


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165：5825 MHz (OOBE)	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	109 年 05 月 22 日	測試者：	許偉信

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5625.00	58.0 PK	68.2	-10.2	1.50 V	211	53.5	4.5
2	#5928.21	60.0 PK	68.2	-8.2	1.50 V	211	54.7	5.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



14.6.2 其它不必要之訊號

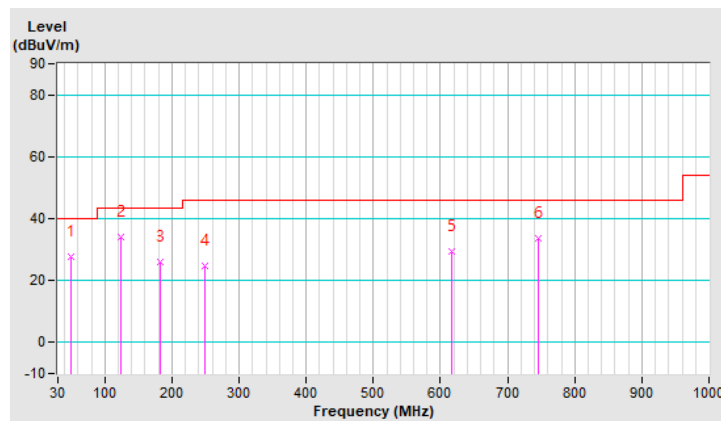
802.11b: Ch 6 + 802.11ax (HE20): Ch 165

操作模式：	發射/接收	調變技術：	DSSS + OFDMA
基本波頻率：	CH 6 : 2437 MHz + CH 165 : 5825 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	49.68	27.7 QP	40.0	-12.3	2.00 H	232	36.5	-8.8
2	124.19	33.9 QP	43.5	-9.6	1.50 H	84	44.5	-10.6
3	183.23	26.1 QP	43.5	-17.4	1.00 H	252	36.3	-10.2
4	249.30	24.7 QP	46.0	-21.3	1.50 H	258	34.2	-9.5
5	616.22	29.2 QP	46.0	-16.8	1.00 H	238	27.9	1.3
6	745.55	33.7 QP	46.0	-12.3	1.50 H	271	30.9	2.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.

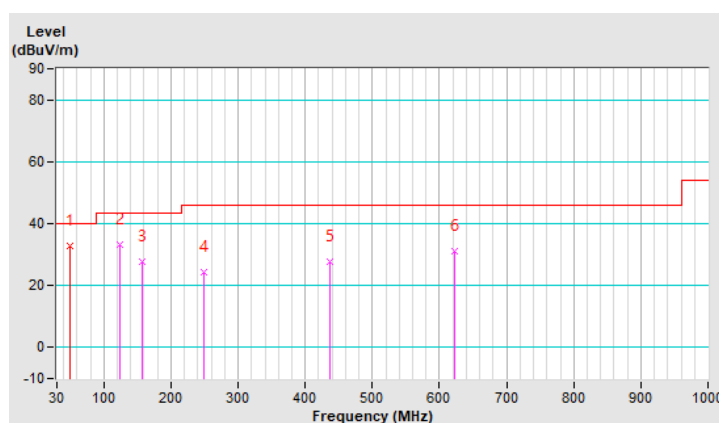


操作模式：	發射/接收	調變技術：	DSSS + OFDMA
基本波頻率：	CH 6：2437 MHz + CH 165：5825 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	109 年 04 月 24 日	測試者：	許偉信

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	50.40	32.8 QP	40.0	-7.2	1.00 V	15	41.5	-8.7
2	124.19	33.3 QP	43.5	-10.2	1.00 V	247	43.9	-10.6
3	157.93	27.6 QP	43.5	-15.9	1.00 V	356	36.1	-8.5
4	249.30	24.4 QP	46.0	-21.6	1.00 V	173	33.9	-9.5
5	436.28	27.6 QP	46.0	-18.4	1.00 V	197	30.6	-3.0
6	621.84	30.9 QP	46.0	-15.1	1.00 V	55	29.5	1.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.



14.7 量測結果判定

依據測試數據結果，符合低功率射頻器材技術規範之要求。

14.8 配置照片

請參閱附件（測試設置照片）。

15 電波暴露量之評估

15.1 適用標準

請見本報告3.1節第12項的規定。

15.2 評估方法

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

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

where

P_d = power density in mW/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

15.3 評估結果

電波暴露量之評估

☐ 發射功率(含 Conducted Power 或 EIRP Power) < 20mW，不需進行電波暴露量之評估

☒ 發射功率(含 Conducted Power 或 EIRP Power) > 20mW，需進行電波暴露量之評估

Frequency Band (MHz)	Max AV Power (dBm)	Directional Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
CDD Mode					
2412-2462	29.75	5.40	23	0.492	1
5180-5240	29.27	6.01	23	0.507	1
5745-5825	29.59	5.69	23	0.507	1
Beamforming Mode					
2412-2462	29.73	5.40	23	0.490	1
5180-5240	29.27	6.01	23	0.507	1
5745-5825	29.59	5.69	23	0.507	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

Directional gain:

2412-2462MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.40\text{dBi}$

5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 6.01\text{dBi}$

5745-5825MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.69\text{dBi}$

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

$\text{WLAN 2.4G} + 5\text{G} = 0.492 / 1 + 0.507 / 1 = 0.999$

Therefore the maximum calculations of above situations are less than the "1" limit.

16 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

您也可以在我们的網站內找到各實驗室的地圖。

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