

低功率射頻電機測試報告

報告編號

RT170731C10C-1

申請者

香港商極進網路有限公司台灣分公司

產品名稱

無線基地台

型號

AP7662

製造廠商

神準科技股份有限公司 / 台灣

商標或廠牌

Extreme Networks

該產品樣品試驗

國家通訊傳播委員會低功率射頻電機技術規範

依據之試驗標準

107 年 1 月修訂

試驗結果

合格

香港商立德國際商品試驗有限公司桃園分公司 林口實驗室

日期 106 年 12 月 27 日

報告簽署人簽章:



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RT170731C10C-1	Original release.	106 年 12 月 27 日

證 明 書

發行日期：106 年 12 月 27 日

產 品 名 稱：無線基地台
商 標：Extreme Networks
型 號：AP7662
申 請 者：香港商極進網路有限公司台灣分公司
量 測 規 範：低功率射頻電機技術規範 LP0002
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：AP7662)，收件日期 106 年 07 月 31 日，於 106 年 09 月 21 日至 106 年 10 月 22 日，已在本公司的標準測試場地完成量測。報告中所描述之測試結果和待測設備的架構組合，均根據樣品實際的量測情況作詳實的記錄。

此份測試報告為原始報告 Report No.: RT170731C10B-1 之系列報告(原證書號碼：申請中)，其差異在於變更產品型號，並做系列認證申請。

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

特 此 證 明 ！

報告製作者：

留品葳

留品葳 / 專員

， 日 期： 106 年 12 月 27 日

審 核 者：

劉克殷

劉克殷 / 資深經理

， 日 期： 106 年 12 月 27 日

香港商立德國際商品試驗有限公司桃園分公司

實驗室地址：新北市林口區嘉寶里 14 鄰 47-2 號

此份報告不得摘錄複製，除全份
複製外，需經實驗室書面同意。



1 低功率射頻電機量測記錄表

申請廠商：香港商極進網路有限公司台灣分公司

製造廠商：神準科技股份有限公司 / 台灣

申請廠商地址：臺北市松山區復勢里南京東路 4 段 126 號 5 樓

廠牌：Extreme Networks

產品名稱：無線基地台

型號：AP7662

量測單位名稱：香港商立德國際商品試驗有限公司桃園分公司

林口實驗室華亞檢測部

量測單位地址：桃園市龜山區文化里華亞二路 19 號

量測單位認可編號：TAF 2021 (9kHz~40GHz)

量測規範：低功率射頻電機技術規範 LP0002

ANSI C63.10-2013

Bluetooth LE 頻段概要

項次	量測項目	規 範	量測結果判定
1	電源線傳導干擾	低功率射頻電機技術規範 2.3 節	合格
2	帶外發射	低功率射頻電機技術規範 3.10.1.5 節	合格
3	6 dB 頻寬	低功率射頻電機技術規範 3.10.1.6 節	合格
4	輸出峰值功率	低功率射頻電機技術規範 3.10.1.2 節	合格
5	功率頻譜密度	低功率射頻電機技術規範 3.10.1.6 節	合格

2 一般敘述

2.1 待測設備

產品名稱：	無線基地台
型號：	AP7662
額定電源：	54Vdc (POE)
調變方式：	GFSK
傳輸速率：	1Mbps
載波頻率：	2402~2480MHz
頻道數：	40
發射功率：	ML-2499-HPA8-01 Ant.: 0.97dBm ML-2452-PNA7-01R Ant.: 1.02dBm
天線種類：	見註 1
電源線類別：	NA
信號線類別：	1.75m non-shielded ground cable without core
配件：	NA

註1：待測設備搭配使用以下天線。

Item	Function	Antenna Type	Part No	Connector	Gain (dBi)	
					2.4G	5G
1	WLAN	Dipole	ML-2452-HPAG5A8-01	N Male	5	8
2	WLAN	Dipole	ML-2452-HPAG4A6-01	N Male	4	7.3
3	WLAN	Dipole	ML-2452-HPA6X6-036	N Male	4	6
4	WLAN	Dipole	WS-AO-DQ04360N	4 N Male	5.5	6
5	WLAN	Dipole	ML-2499-HPA4-01	N Male	4.5	
6	WLAN	Dipole	ML-2452-HPA6-01	N Male	5.3	6.1
7	WLAN	Dipole	ML-5299-HPA5-01	N Male		5.6
8	WLAN & BT LE & Zigbee	Dipole	ML-2499-HPA8-01	N Male	8	
9	WLAN	Dipole	ML-2499-FHPA5-01R	N Male	7.7	
10	WLAN	Dipole	ML-5299-FHPA6-01R	N Male		8.25
11	WLAN	Panel	ML-2452-PNA5-01R	N Male	4.5	5~4.5 MAX:5
12	WLAN & BT LE & Zigbee	Panel	ML-2452-PNA7-01R	N Male	7.8	10.7~7 MAX:10.7
13	WLAN	Polarized Panel	ML-2452-PNL6M4-N36	4 N Male	5.6	6.7
14	WLAN	Polarized Panel	ML-2452-SEC6M4-N36	4 N Male	6.92	7.23
15	WLAN	Polarized Panel	ML-2452-SEC6M4-N30	4 N Male	5.5	6
16	WLAN	Polarized Panel	ML-2452-PNL9M3-N36	N Male	11	10.7

註2: The EUT consumes power from following POE. (Support units only)

POE	
Brand	EnGenius
Model	EPA5006GP
Input Power	100-240Vac, 50-60Hz, 0.8A
Output Power	54Vdc, 0.6A Pin 4, 5: 54Vdc Pin 7, 8: Return

註3: 待測設備經過評估後以下列測試模式進行最終量測。

測試模式	測試狀態
A	ML-2499-HPA8-01
B	ML-2452-PNA7-01R

量測項目	發射	接收
場強輻射	1GHz 以上量測	Ch 0, 19, 39
	其它不必要之訊號	Ch 39
電源線傳導干擾	Ch 39	

註4: 待測設備經評估三個正交軸方位評估測試擺設方式：平躺、側放、垂直，擁有最大干擾值之擺設方式如下，並以此進行最終量測並記錄於報告中。

模式	BT LE
A	垂直
B	側放

註5: 2.4GHz & 5GHz & BT LE/Zigbee technologies can transmit at same time.
BT LE & Zigbee technologies cannot transmit at same time.

註6: Spurious emission of the simultaneous operation (2.4GHz & 5GHz & BT LE/Zigbee) has been evaluated and no non-compliance was found.

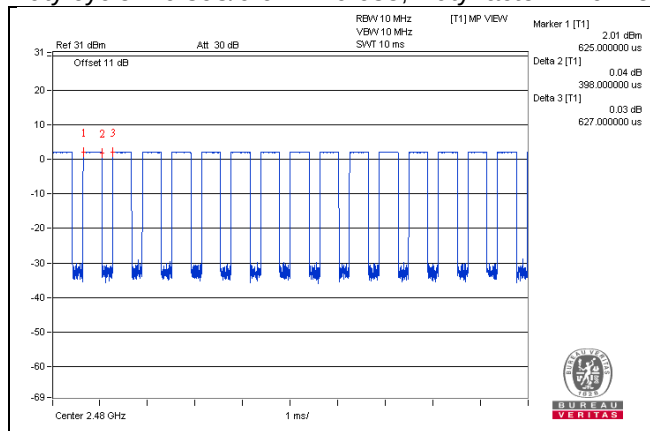
註7: Power Setting is listed as below.

ML-2499-HPA8-01, ML-2452-PNA7-01R	
CH 0	Default
CH 19	Default
CH 39	Default

註8: Duty cycle of test signal.

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

Duty cycle = $0.398/0.627 = 0.635$, Duty factor = $10 * \log(1/0.635) = 1.97$



此裝置各頻道的中心頻率如下：

Bluetooth LE 頻段：

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

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 170731C10C。

2.2 輔助測試之週邊設備描述

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

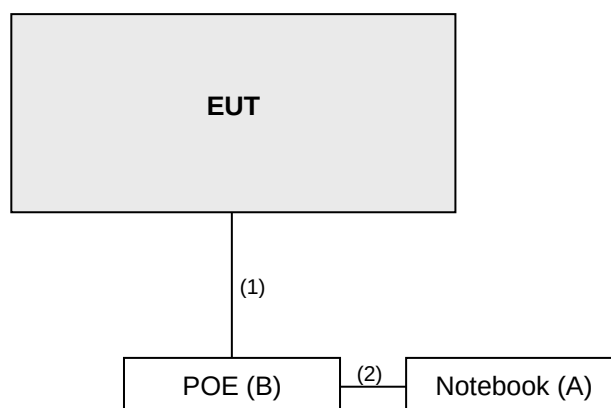
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5420	BPQ7MQ1	FCC DoC Approved	-
B.	POE	EnGenius	EPA5006GP	NA	NA	Supplied by the manufacturer

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	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45, Cat5e	1	10	N	0	-
2.	RJ45, Cat5e	1	1.5	N	0	-

2.3 測試架構圖



3 適用規範

3.1 規範要求

(1) 傳導之規定

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

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

(註)：隨頻率之對數遞減。

(2) 帶外發射之規定

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.5 節之要求，操作頻帶範圍外之任意 100 kHz 內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 kHz 內的射頻功率，其衰減值限制如下：(1) 輸出功率以附件二之峰值輸出功率方式測量者，至少須衰減 20 dB，可使用射頻傳導或輻射方式測量。(2) 輸出功率以 3.10.1.2(1)(C)之最大傳導輸出功率測量方式者，至少須衰減 30 dB。此外，落於 2.7 禁用頻段之輻射發射，應符合 2.8 之規定。

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

(3) 天線之規定

天線規格不受第 2.2 節規定之限制。

(4) 天線增益之要求

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

(A) 進行固定式點對點操作時，其發射天線之方向性增益超過 6 dBi，每超過 3 dBi，最大傳導輸出功率限制值應降低 1 dB。

(B) 天線以多向波束發射方式(含同時發射或循序發射)將訊號導向多個接收機或接收機群組時，應符合下列規定：

(a) 非同時發射多向波束者，所有載波或頻道傳輸至所有天線陣列或陣列群之總和傳導輸出功率應符合 3.10.1.2 之功率限制值。如天線/天線陣列群之方向性增益超過 6 dBi，每超過 3 dBi，總和傳導輸出功率限制值應降低 1 dB。方向性增益值應計算如下：

(i) 方向性增益值 = $10\log(\text{天線陣列之單元數目}) + \text{各單元中最高之方向性增益值}$ 。

(ii) 天線陣列間之遮蔽效應或波束干涉損失能充分佐證時，方向性增益得低於(i)計算數值。

(b) 同時發射多向波束於相同或不同頻道者，其每一波束功率應符合(a)之功率限制值。如發射波束有重疊現象，功率應降低，以確保總和傳導輸出功率符合(a)之限制值。同時發射的所有波束總和傳導輸出功率不大於(a)總和傳導輸出功率限制值加 8 dB。方向性增益值計算同(a)。

(c) 發射機之天線具備單向波束功能者，應符合(1)(A)及(3)後段之規定。

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

(5) 6dB 頻寬之要求

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

(6) 傳導輸出功率之要求

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.2 節之規定:

數位調變技術系統:1 W(含)以下。

(7) 功率頻譜密度之要求

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

3.2 限制使用之頻帶

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

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

4 帶外發射之量測

4.1 適用標準

請見本報告3.1節第2項的規定。

4.2 量測方法

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

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

4.3 量測儀器

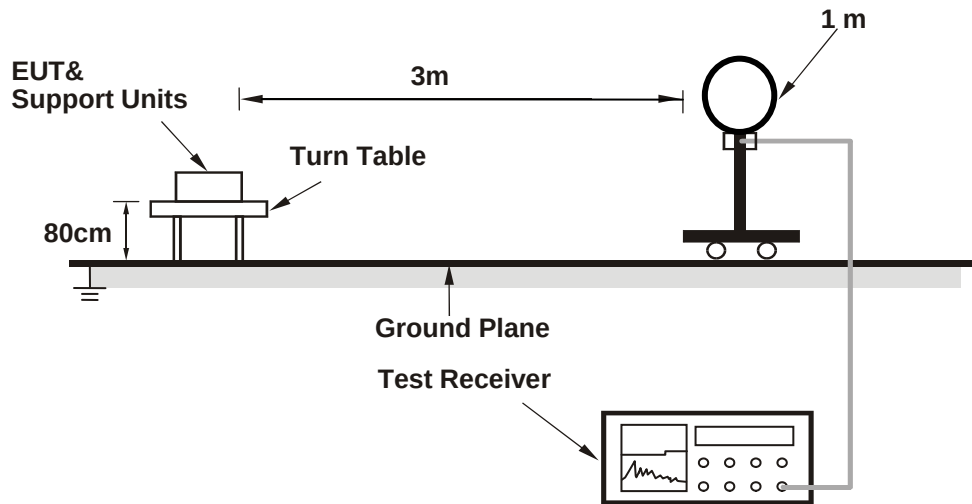
Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 02, 2017	May 01, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	9120D	209	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
Preamplifier Agilent	8447D	2944A10738	Aug. 21, 2017	Aug. 20, 2018
Preamplifier Agilent	8449B	3008A02465	Apr. 05, 2017	Apr. 04, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 21, 2017	Aug. 20, 2018
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-S M-8000	Cable-CH3-03 (309224+170907)	Sep.11, 2017	Sep. 10, 2018
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	0824012	Aug. 18, 2017	Aug. 17, 2018
Power Sensor	MA2411B	0738171	Aug. 18, 2017	Aug. 17, 2018

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
5. The IC Site Registration No. is IC 7450F-3.
6. The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

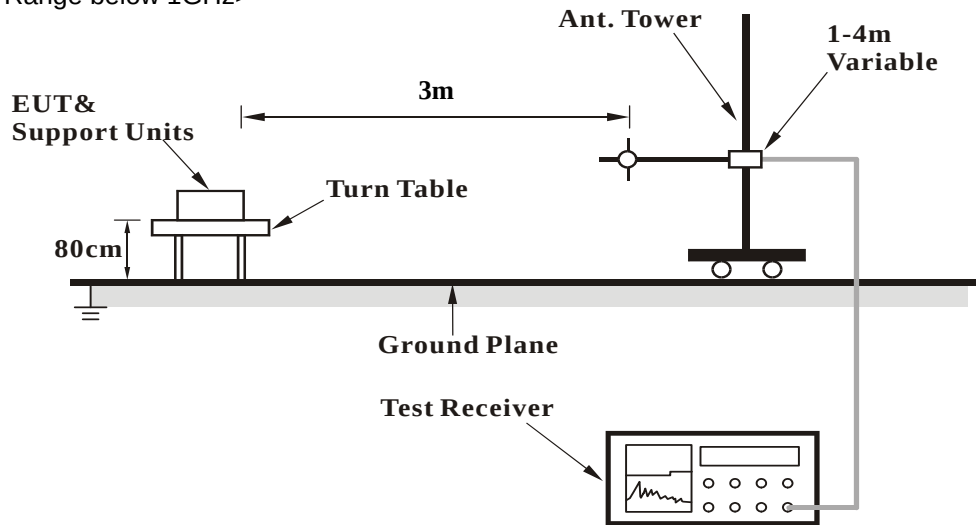
Measurement	Frequency	Uncertainty
Radiated emissions	30MHz ~ 200MHz	3.86 dB
	200MHz ~1000MHz	3.87 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

4.4 測試配置

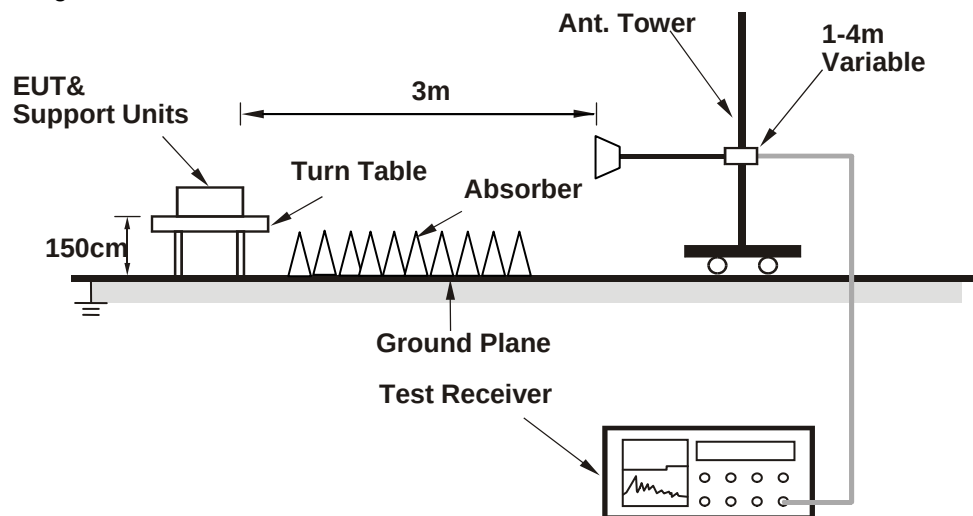
<Frequency Range below 30MHz>



<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

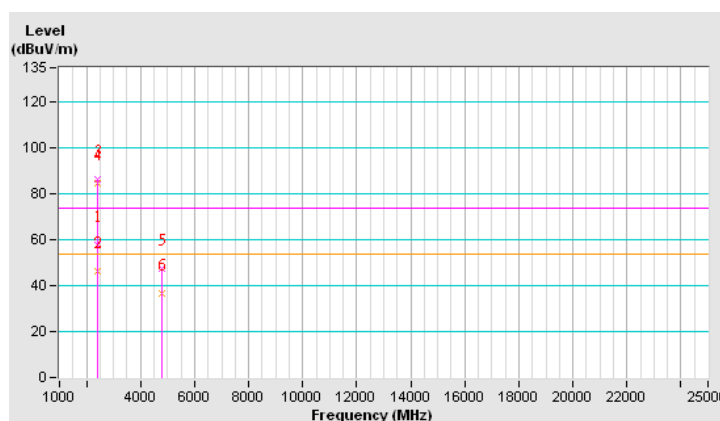
模式 A

操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 0：2402 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.7 PK	74.0	-16.3	1.70 H	303	24.80	32.90
2	2390.00	46.1 AV	54.0	-7.9	1.70 H	303	13.20	32.90
3	*2402.00	86.3 PK			1.71 H	57	53.30	33.00
4	*2402.00	84.9 AV			1.71 H	57	51.90	33.00
5	4804.00	47.7 PK	74.0	-26.3	1.59 H	3	44.10	3.60
6	4804.00	36.6 AV	54.0	-17.4	1.59 H	3	33.00	3.60
	7206.00	-	-	-	-	-	-	-
	9608.00	-	-	-	-	-	-	-
	12010.00	-	-	-	-	-	-	-
	14412.00	-	-	-	-	-	-	-
	16814.00	-	-	-	-	-	-	-
	19216.00	-	-	-	-	-	-	-
	21618.00	-	-	-	-	-	-	-
	24020.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “*”: Fundamental Frequency (主頻)
5. “-”: The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “#”: The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



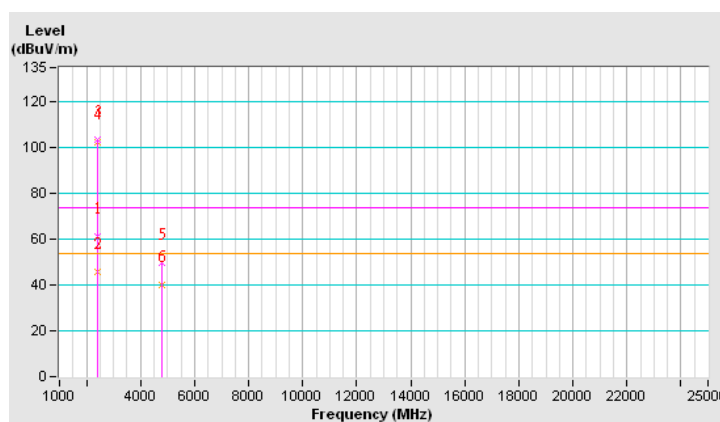
操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 0：2402 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.2 PK	74.0	-12.8	1.51 V	339	28.30	32.90
2	2390.00	45.9 AV	54.0	-8.1	1.51 V	339	13.00	32.90
3	*2402.00	103.6 PK			1.74 V	43	70.60	33.00
4	*2402.00	102.3 AV			1.74 V	43	69.30	33.00
5	4804.00	50.0 PK	74.0	-24.0	1.34 V	343	46.40	3.60
6	4804.00	40.2 AV	54.0	-13.8	1.34 V	343	36.60	3.60
	7206.00	-	-	-	-	-	-	-
	9608.00	-	-	-	-	-	-	-
	12010.00	-	-	-	-	-	-	-
	14412.00	-	-	-	-	-	-	-
	16814.00	-	-	-	-	-	-	-
	19216.00	-	-	-	-	-	-	-
	21618.00	-	-	-	-	-	-	-
	24020.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “*” : Fundamental Frequency (主頻)
5. “-” : The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “#” : The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

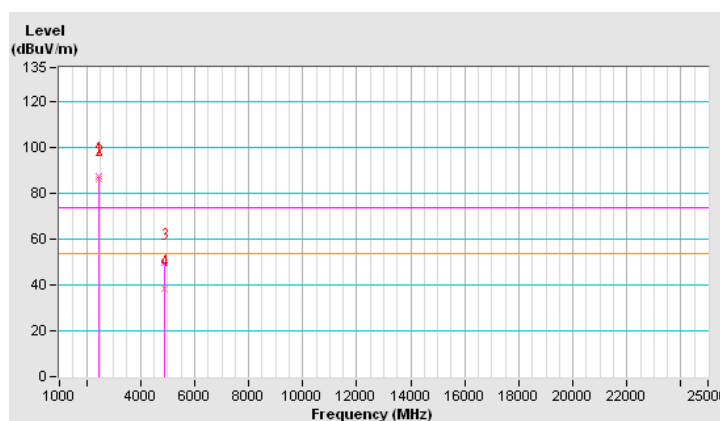


操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 19 : 2440 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2440.00	87.7 PK			1.68 H	105	54.50	33.20
2	*2440.00	86.3 AV			1.68 H	105	53.10	33.20
3	4880.00	49.6 PK	74.0	-24.4	1.68 H	3	46.00	3.60
4	4880.00	38.6 AV	54.0	-15.4	1.68 H	3	35.00	3.60
	7320.00	-	-	-	-	-	-	-
	9760.00	-	-	-	-	-	-	-
	12200.00	-	-	-	-	-	-	-
	14640.00	-	-	-	-	-	-	-
	17080.00	-	-	-	-	-	-	-
	19520.00	-	-	-	-	-	-	-
	21960.00	-	-	-	-	-	-	-
	24400.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “* “ : Fundamental Frequency (主頻)
5. “ – “: The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “ # “: The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

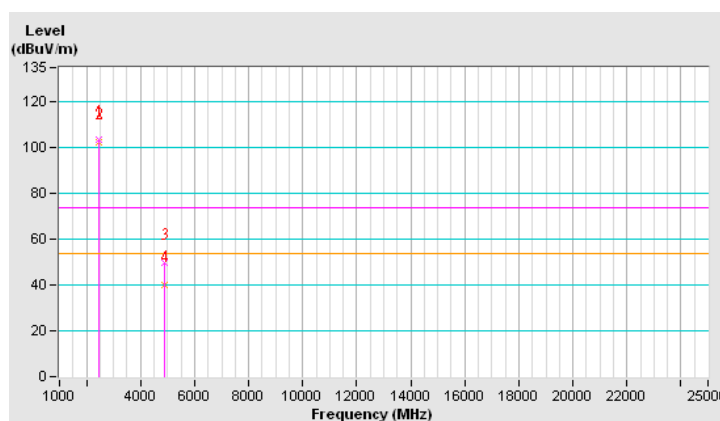


操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 19 : 2440 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2440.00	103.7 PK			1.69 V	172	70.50	33.20
2	*2440.00	102.5 AV			1.69 V	172	69.30	33.20
3	4880.00	49.5 PK	74.0	-24.5	1.63 V	342	45.90	3.60
4	4880.00	40.1 AV	54.0	-13.9	1.63 V	342	36.50	3.60
	7320.00	-	-	-	-	-	-	-
	9760.00	-	-	-	-	-	-	-
	12200.00	-	-	-	-	-	-	-
	14640.00	-	-	-	-	-	-	-
	17080.00	-	-	-	-	-	-	-
	19520.00	-	-	-	-	-	-	-
	21960.00	-	-	-	-	-	-	-
	24400.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “ * ” : Fundamental Frequency (主頻)
5. “ - ” : The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “ # ” : The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

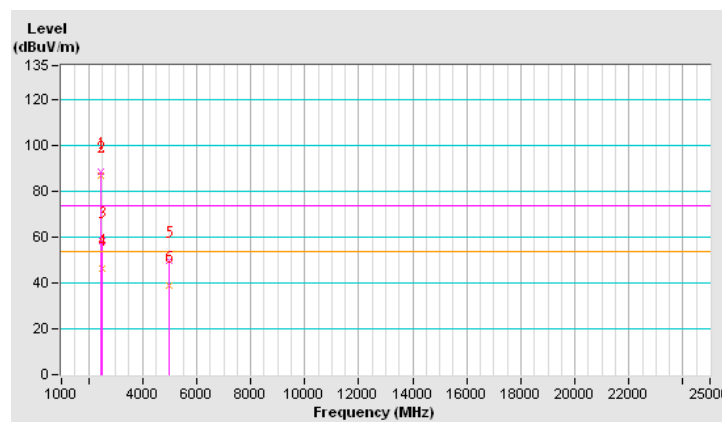


操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 39：2480 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	88.4 PK			1.85 H	93	55.00	33.40
2	*2480.00	87.0 AV			1.85 H	93	53.60	33.40
3	2483.50	58.3 PK	74.0	-15.7	1.77 H	111	24.90	33.40
4	2483.50	46.4 AV	54.0	-7.6	1.77 H	111	13.00	33.40
5	4960.00	49.7 PK	74.0	-24.3	1.88 H	53	46.00	3.70
6	4960.00	39.1 AV	54.0	-14.9	1.88 H	53	35.40	3.70
	7440.00	-	-	-	-	-	-	-
	9920.00	-	-	-	-	-	-	-
	12400.00	-	-	-	-	-	-	-
	14880.00	-	-	-	-	-	-	-
	17360.00	-	-	-	-	-	-	-
	19840.00	-	-	-	-	-	-	-
	22320.00	-	-	-	-	-	-	-
	24800.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “*” : Fundamental Frequency (主頻)
5. “-” : The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “#” : The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

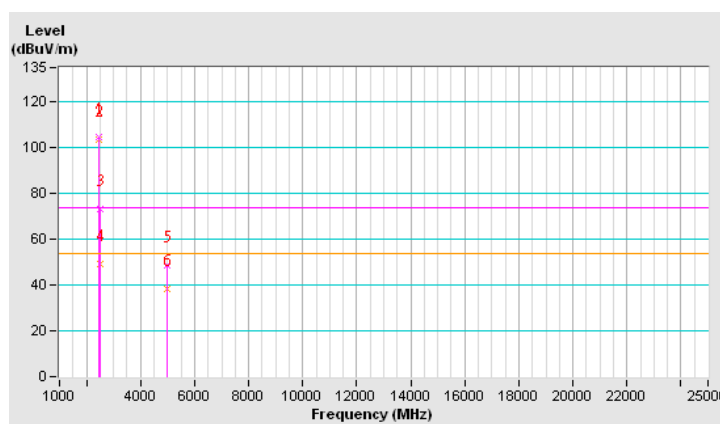


操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 39 : 2480 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	104.8 PK			1.72 V	169	71.40	33.40
2	*2480.00	103.7 AV			1.72 V	169	70.30	33.40
3	2483.50	73.1 PK	74.0	-0.9	1.74 V	172	39.70	33.40
4	2483.50	49.1 AV	54.0	-4.9	1.74 V	172	15.70	33.40
5	4960.00	48.6 PK	74.0	-25.4	1.74 V	334	44.90	3.70
6	4960.00	38.3 AV	54.0	-15.7	1.74 V	334	34.60	3.70
	7440.00	-	-	-	-	-	-	-
	9920.00	-	-	-	-	-	-	-
	12400.00	-	-	-	-	-	-	-
	14880.00	-	-	-	-	-	-	-
	17360.00	-	-	-	-	-	-	-
	19840.00	-	-	-	-	-	-	-
	22320.00	-	-	-	-	-	-	-
	24800.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “ * ” : Fundamental Frequency (主頻)
5. “ - ” : The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “ # ”: The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



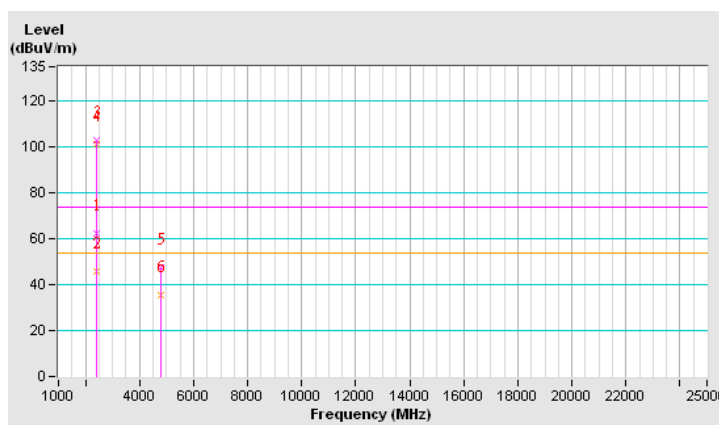
模式 B

操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 0：2402 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 21 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.3 PK	74.0	-11.7	1.82 H	349	29.40	32.90
2	2390.00	46.0 AV	54.0	-8.0	1.82 H	349	13.10	32.90
3	*2402.00	102.8 PK			1.75 H	5	69.80	33.00
4	*2402.00	101.5 AV			1.75 H	5	68.50	33.00
5	4804.00	47.6 PK	74.0	-26.4	1.55 H	214	44.00	3.60
6	4804.00	35.7 AV	54.0	-18.3	1.55 H	214	32.10	3.60
	7206.00	-	-	-	-	-	-	-
	9608.00	-	-	-	-	-	-	-
	12010.00	-	-	-	-	-	-	-
	14412.00	-	-	-	-	-	-	-
	16814.00	-	-	-	-	-	-	-
	19216.00	-	-	-	-	-	-	-
	21618.00	-	-	-	-	-	-	-
	24020.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “* ”: Fundamental Frequency (主頻)
5. “- ”: The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “# ”: The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



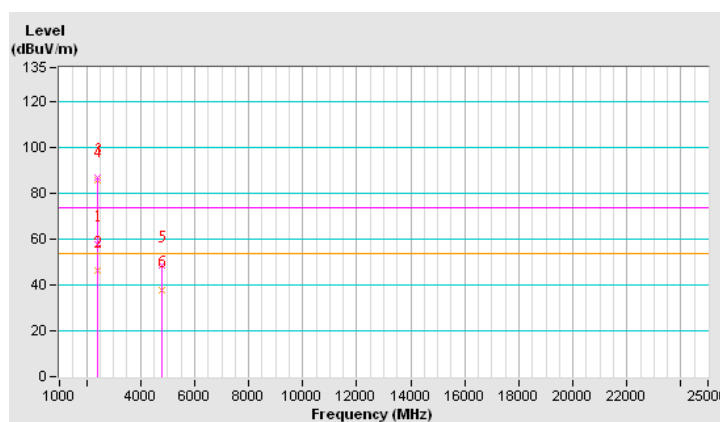
操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 0：2402 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 21 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.6 PK	74.0	-16.4	1.83 V	222	24.70	32.90
2	2390.00	46.1 AV	54.0	-7.9	1.83 V	222	13.20	32.90
3	*2402.00	87.2 PK			2.02 V	328	54.20	33.00
4	*2402.00	85.9 AV			2.02 V	328	52.90	33.00
5	4804.00	48.4 PK	74.0	-25.6	1.99 V	282	44.80	3.60
6	4804.00	37.7 AV	54.0	-16.3	1.99 V	282	34.10	3.60
	7206.00	-	-	-	-	-	-	-
	9608.00	-	-	-	-	-	-	-
	12010.00	-	-	-	-	-	-	-
	14412.00	-	-	-	-	-	-	-
	16814.00	-	-	-	-	-	-	-
	19216.00	-	-	-	-	-	-	-
	21618.00	-	-	-	-	-	-	-
	24020.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “*” : Fundamental Frequency (主頻)
5. “-” : The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “#” : The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

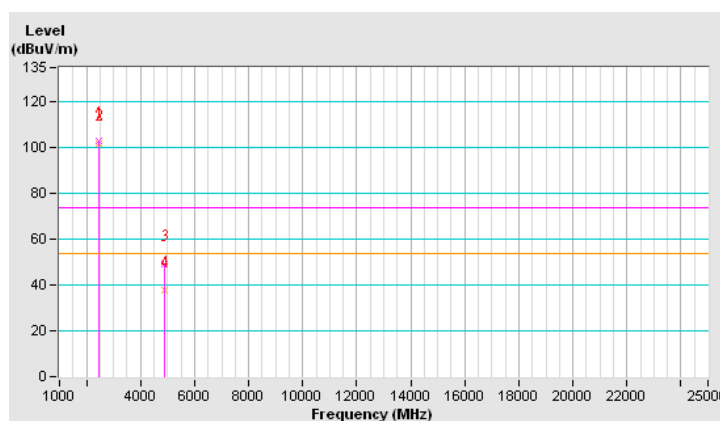


操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 19 : 2440 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 21 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2440.00	102.9 PK			1.96 H	355	69.70	33.20
2	*2440.00	101.6 AV			1.96 H	355	68.40	33.20
3	4880.00	49.0 PK	74.0	-25.0	1.98 H	213	45.40	3.60
4	4880.00	37.7 AV	54.0	-16.3	1.98 H	213	34.10	3.60
	7320.00	-	-	-	-	-	-	-
	9760.00	-	-	-	-	-	-	-
	12200.00	-	-	-	-	-	-	-
	14640.00	-	-	-	-	-	-	-
	17080.00	-	-	-	-	-	-	-
	19520.00	-	-	-	-	-	-	-
	21960.00	-	-	-	-	-	-	-
	24400.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “*” : Fundamental Frequency (主頻)
5. “-” : The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “#” : The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

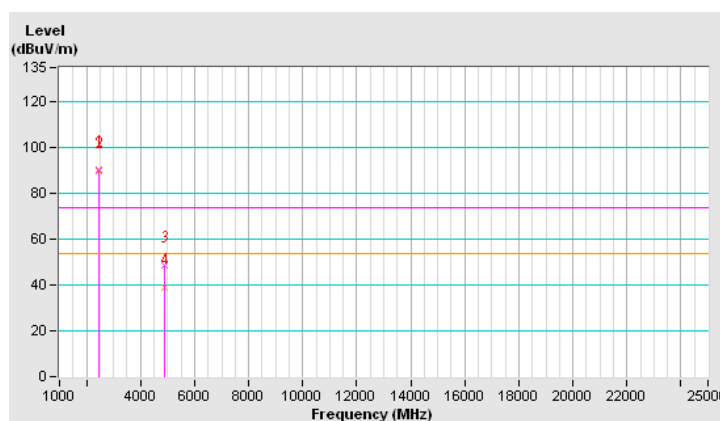


操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 19 : 2440 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 21 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2440.00	90.4 PK			2.64 V	322	57.20	33.20
2	*2440.00	89.6 AV			2.64 V	322	56.40	33.20
3	4880.00	48.9 PK	74.0	-25.1	2.03 V	280	45.30	3.60
4	4880.00	38.7 AV	54.0	-15.3	2.03 V	280	35.10	3.60
	7320.00	-	-	-	-	-	-	-
	9760.00	-	-	-	-	-	-	-
	12200.00	-	-	-	-	-	-	-
	14640.00	-	-	-	-	-	-	-
	17080.00	-	-	-	-	-	-	-
	19520.00	-	-	-	-	-	-	-
	21960.00	-	-	-	-	-	-	-
	24400.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “*” : Fundamental Frequency (主頻)
5. “-” : The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “#” : The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

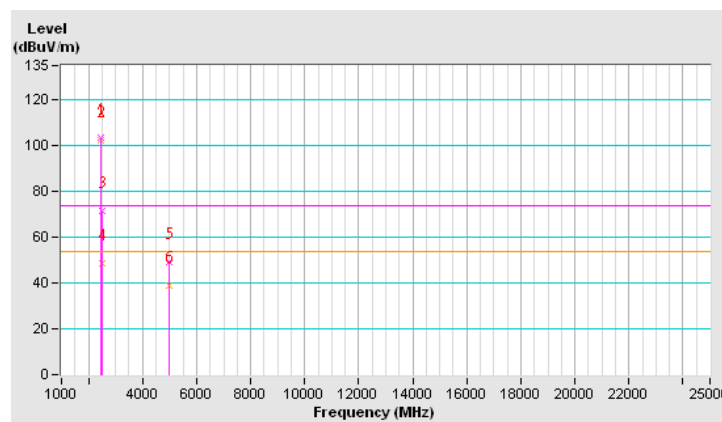


操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 39：2480 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 21 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	103.7 PK			1.94 H	4	70.30	33.40
2	*2480.00	102.6 AV			1.94 H	4	69.20	33.40
3	2483.50	71.7 PK	74.0	-2.3	1.93 H	3	38.30	33.40
4	2483.50	48.5 AV	54.0	-5.5	1.93 H	3	15.10	33.40
5	4960.00	49.3 PK	74.0	-24.7	2.29 H	213	45.60	3.70
6	4960.00	38.9 AV	54.0	-15.1	2.29 H	213	35.20	3.70
	7440.00	-	-	-	-	-	-	-
	9920.00	-	-	-	-	-	-	-
	12400.00	-	-	-	-	-	-	-
	14880.00	-	-	-	-	-	-	-
	17360.00	-	-	-	-	-	-	-
	19840.00	-	-	-	-	-	-	-
	22320.00	-	-	-	-	-	-	-
	24800.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “*” : Fundamental Frequency (主頻)
5. “-” : The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “#” : The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



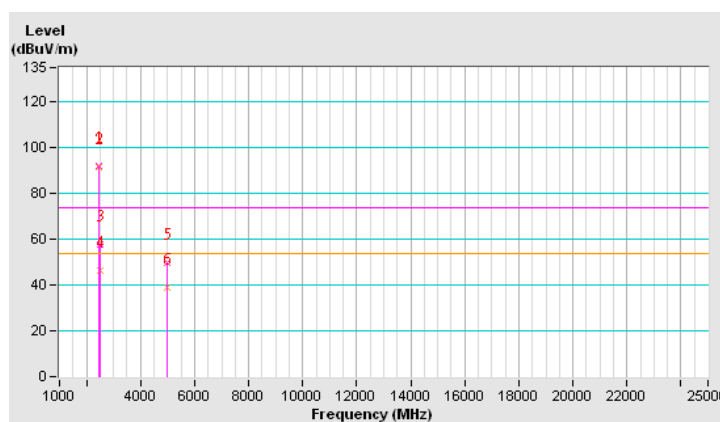
操作模式：	發射	調變技術：	GFSK
基本波頻率：	CH 39 : 2480 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 21 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	92.3 PK			2.69 V	322	58.90	33.40
2	*2480.00	91.3 AV			2.69 V	322	57.90	33.40
3	2483.50	57.7 PK	74.0	-16.3	2.11 V	311	24.30	33.40
4	2483.50	46.4 AV	54.0	-7.6	2.11 V	311	13.00	33.40
5	4960.00	49.8 PK	74.0	-24.2	2.39 V	309	46.10	3.70
6	4960.00	38.9 AV	54.0	-15.1	2.39 V	309	35.20	3.70
	7440.00	-	-	-	-	-	-	-
	9920.00	-	-	-	-	-	-	-
	12400.00	-	-	-	-	-	-	-
	14880.00	-	-	-	-	-	-	-
	17360.00	-	-	-	-	-	-	-
	19840.00	-	-	-	-	-	-	-
	22320.00	-	-	-	-	-	-	-
	24800.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. “ * ” : Fundamental Frequency (主頻)
5. “ - ” : The emission levels were too low to be detected.
6. The other emission levels were very low against the limit.
7. “ # ”: The radiated frequency is out of the restricted band.
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



4.6.2 接收諧波

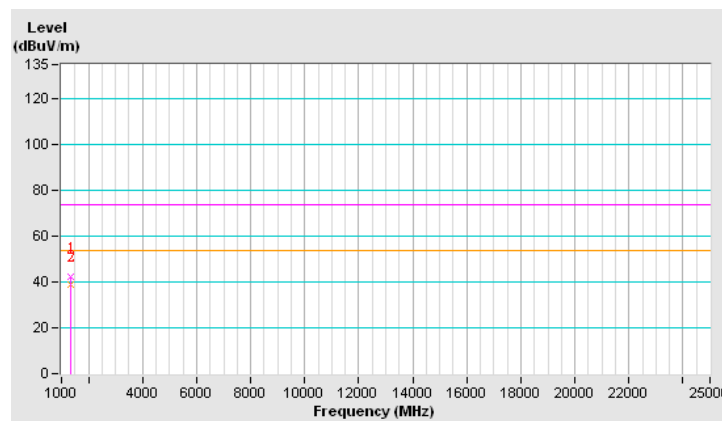
模式 A

操作模式：	接收	調變技術：	GFSK
基本波頻率：	CH 39 : 2480 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1344.00	42.5 PK	74.0	-31.5	1.93 H	209	48.10	-5.60
2	1344.00	38.7 AV	54.0	-15.3	1.93 H	209	44.30	-5.60

Remarks:

1. Emission Level(dBuV/m) = 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



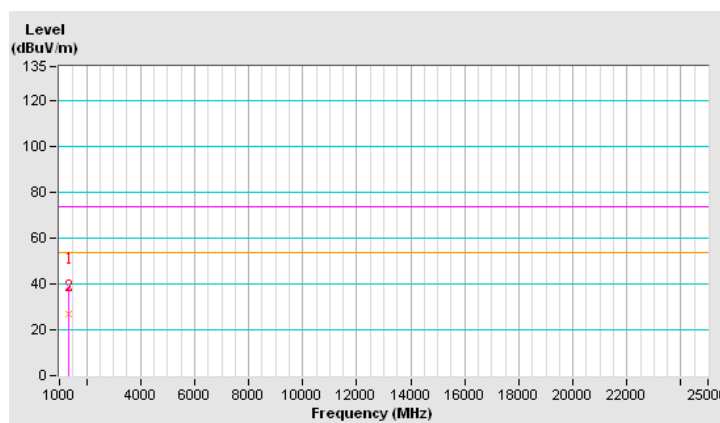
操作模式：	接收	調變技術：	GFSK
基本波頻率：	CH 39：2480 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1344.00	38.7 PK	74.0	-35.3	1.78 V	303	44.30	-5.60
2	1344.00	26.8 AV	54.0	-27.2	1.78 V	303	32.40	-5.60

Remarks:

1. Emission Level(dBuV/m) = 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



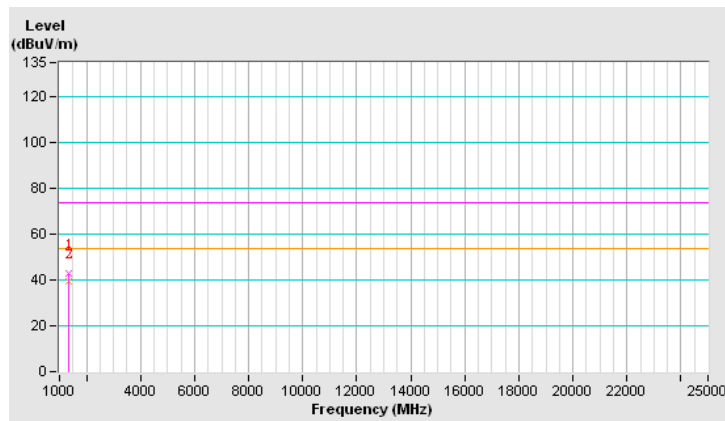
模式 B

操作模式：	接收	調變技術：	GFSK
基本波頻率：	CH 39 : 2480 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 22 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1344.00	43.0 PK	74.0	-31.0	2.29 H	110	49.40	-6.40
2	1344.00	39.3 AV	54.0	-14.7	2.29 H	110	45.70	-6.40

Remarks:

1. Emission Level(dBuV/m) = 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



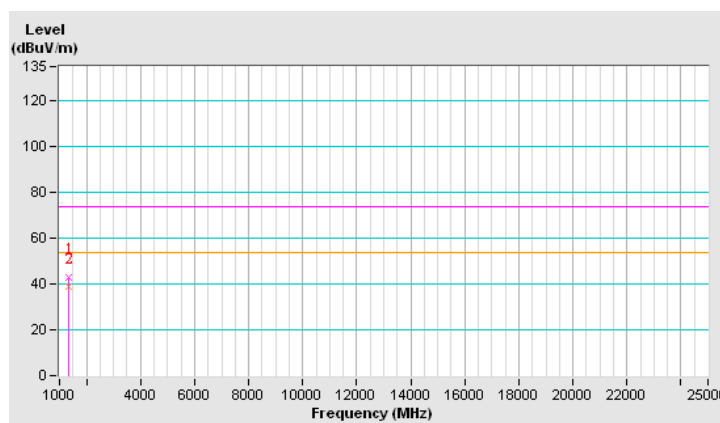
操作模式：	接收	調變技術：	GFSK
基本波頻率：	CH 39 : 2480 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 22 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1344.00	43.1 PK	74.0	-30.9	3.01 V	54	49.50	-6.40
2	1344.00	39.0 AV	54.0	-15.0	3.01 V	54	45.40	-6.40

Remarks:

1. Emission Level(dBuV/m) = 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

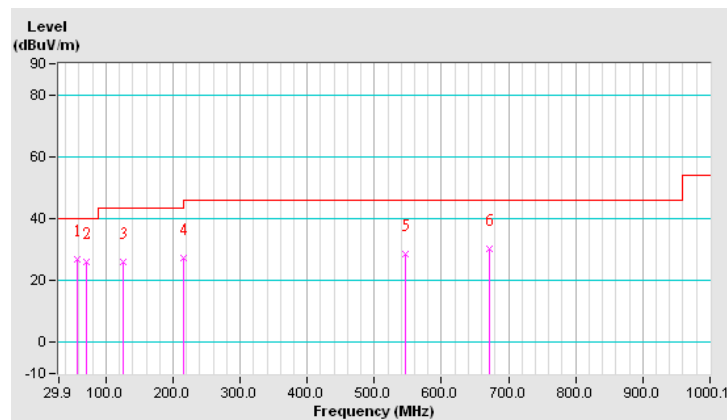
模式 A

操作模式：	發射/接收	調變技術：	GFSK
基本波頻率：	CH 39 : 2480 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	26.9 QP	40.0	-13.1	2.00 H	208	41.50	-14.60
2	70.73	25.9 QP	40.0	-14.1	2.00 H	125	42.30	-16.40
3	125.17	26.1 QP	43.5	-17.4	1.50 H	306	41.90	-15.80
4	216.55	27.1 QP	46.0	-18.9	1.50 H	293	43.20	-16.10
5	547.08	28.4 QP	46.0	-17.6	1.50 H	6	37.20	-8.80
6	671.52	30.1 QP	46.0	-15.9	1.01 H	17	36.60	-6.50

Remarks:

1. Emission Level(dBuV/m) = 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.

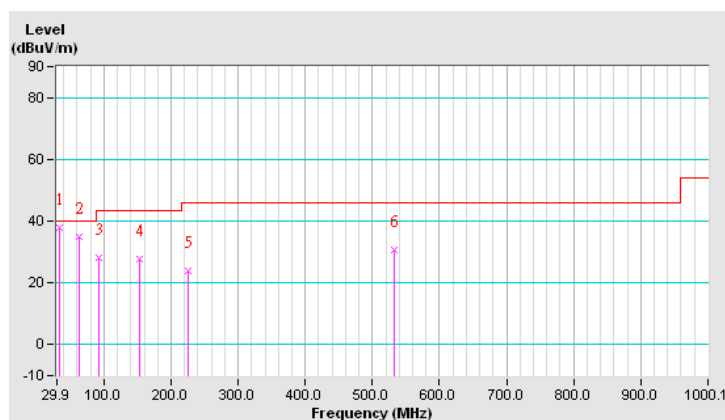


操作模式：	發射/接收	調變技術：	GFSK
基本波頻率：	CH 39 : 2480 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	33.79	37.9 QP	40.0	-2.1	1.00 V	177	53.90	-16.00
2	62.95	34.9 QP	40.0	-5.1	1.00 V	340	50.10	-15.20
3	92.12	28.1 QP	43.5	-15.4	1.00 V	288	47.60	-19.50
4	152.39	27.7 QP	43.5	-15.8	1.49 V	204	41.70	-14.00
5	226.27	23.9 QP	46.0	-22.1	1.00 V	263	40.30	-16.40
6	533.47	30.8 QP	46.0	-15.2	1.00 V	6	40.00	-9.20

Remarks:

1. Emission Level(dBuV/m) = 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.



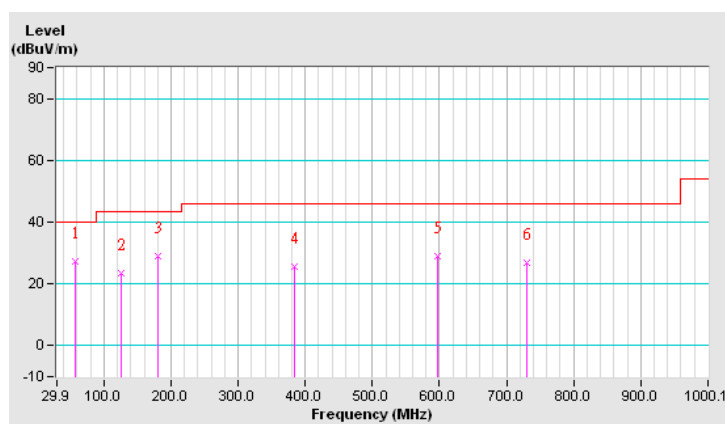
模式 B

操作模式：	發射/接收	調變技術：	GFSK
基本波頻率：	CH 39 : 2480 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	27.3 QP	40.0	-12.7	2.00 H	2	41.90	-14.60
2	125.17	23.3 QP	43.5	-20.2	1.51 H	59	39.10	-15.80
3	179.61	29.0 QP	43.5	-14.5	2.00 H	241	44.10	-15.10
4	383.76	25.5 QP	46.0	-20.5	1.01 H	147	37.00	-11.50
5	597.63	28.9 QP	46.0	-17.1	1.51 H	280	36.40	-7.50
6	729.84	27.0 QP	46.0	-19.0	1.51 H	37	32.40	-5.40

Remarks:

1. Emission Level(dBuV/m) = 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.

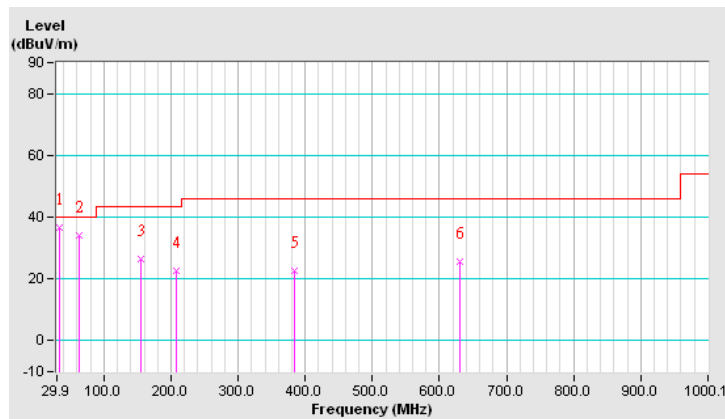


操作模式：	發射/接收	調變技術：	GFSK
基本波頻率：	CH 39：2480 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	22°C	量測場地濕度：	64%RH
測試日期：	106 年 9 月 25 日	測試者：	鄭詠璋

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	33.79	36.7 QP	40.0	-3.3	1.00 V	149	52.70	-16.00
2	62.95	34.1 QP	40.0	-5.9	1.00 V	333	49.30	-15.20
3	154.33	26.3 QP	43.5	-17.2	1.00 V	13	40.20	-13.90
4	208.77	22.8 QP	43.5	-20.7	1.00 V	295	39.40	-16.60
5	383.76	22.7 QP	46.0	-23.3	1.49 V	265	34.20	-11.50
6	630.69	25.4 QP	46.0	-20.6	1.49 V	16	32.30	-6.90

Remarks:

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



4.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

4.8 配置照片

請參閱附件(Test Setup Photo)。

5 電源線傳導干擾之量測

5.1 適用標準

請見本報告3.1節第1項的規定。

5.2 量測方法

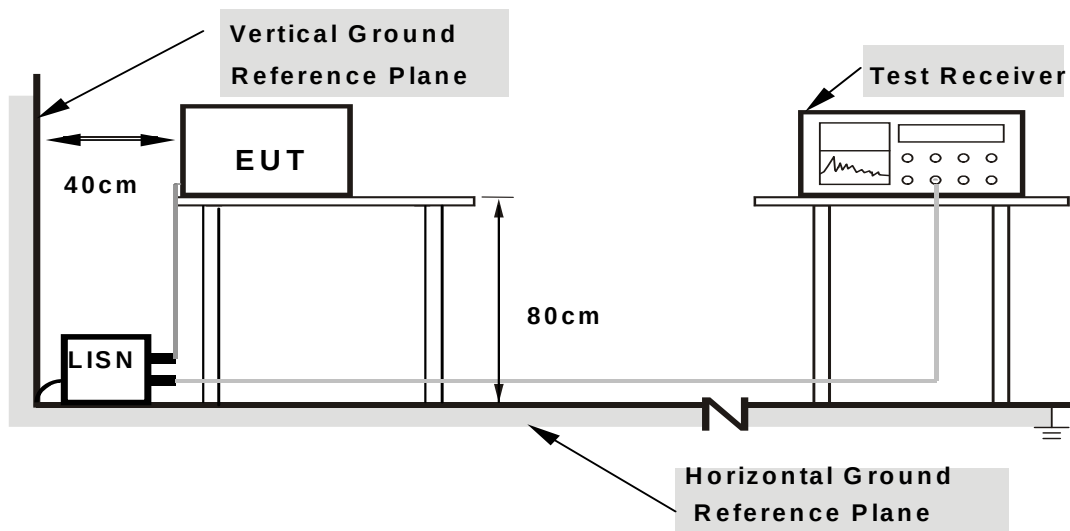
將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由0.15MHZ至30MHZ之間之電源線傳導放射強度。

5.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 21, 2016	Nov. 20, 2017
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2017	Sep. 04, 2018
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 15, 2017	Aug. 14, 2018
Software ADT	BV ADT_Conf_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.
 4. The measurement uncertainty is 2.94 dB, which is calculated as per the document CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5.4 測試配置



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

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

5.5 干擾值之計算

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

電源傳導干擾電壓之計算公式如下

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

其中校正因子Correction Factor (dB)為：

饋線損失+電源阻抗模擬網路損失

5.6 量測結果

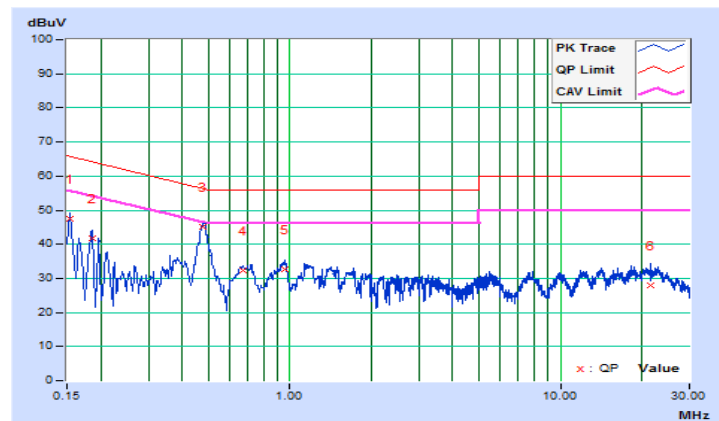
模式 A

操作模式	發射/接收	測試日期	106 年 09 月 25 日
基本波頻率	CH 39 : 2480 MHz	量測場地溫度	25°C
調變技術	GFSK	量測場地濕度	68%RH
測試者	張仲志		

		6 dB Bandwidth: 9kHz				PHASE: LINE (L)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15391	10.45	36.92	24.11	47.37	34.56	65.79	55.79	-18.42	-21.23
0.18508	10.45	31.26	18.07	41.71	28.52	64.25	54.25	-22.54	-25.73
0.47915	10.51	34.65	30.40	45.16	40.91	56.35	46.35	-11.19	-5.44
0.67134	10.50	21.77	18.13	32.27	28.63	56.00	46.00	-23.73	-17.37
0.95561	10.48	22.25	19.15	32.73	29.63	56.00	46.00	-23.27	-16.37
21.51033	11.48	16.57	11.37	28.05	22.85	60.00	50.00	-31.95	-27.15

Note:

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

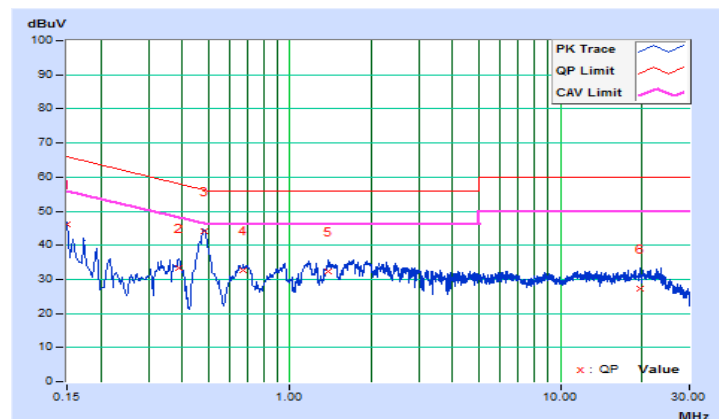


操作模式	發射/接收	測試日期	106 年 09 月 25 日
基本波頻率	CH 39 : 2480 MHz	量測場地溫度	25°C
調變技術	GFSK	量測場地濕度	68%RH
測試者	張仲志		

		6 dB Bandwidth: 9kHz				PHASE: NEUTRAL (N)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15000	10.20	36.07	23.80	46.27	34.00	66.00	56.00	-19.73	-22.00
0.38808	10.24	22.94	17.01	33.18	27.25	58.10	48.10	-24.92	-20.85
0.48235	10.24	33.85	29.44	44.09	39.68	56.30	46.30	-12.21	-6.62
0.67394	10.25	22.43	18.39	32.68	28.64	56.00	46.00	-23.32	-17.36
1.39338	10.28	22.13	18.76	32.41	29.04	56.00	46.00	-23.59	-16.96
19.70391	11.04	16.17	10.96	27.21	22.00	60.00	50.00	-32.79	-28.00

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.



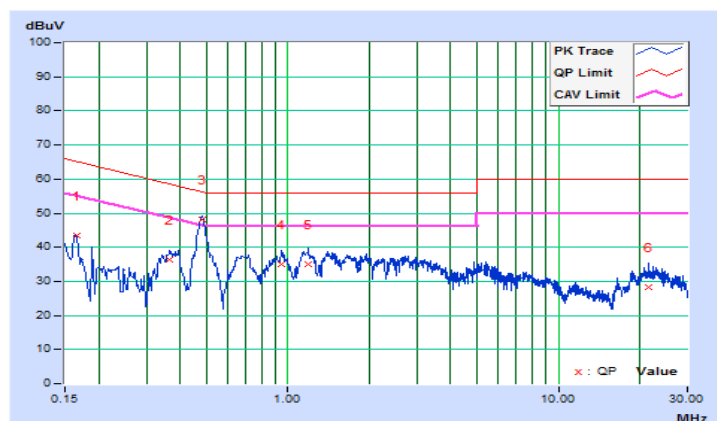
模式 B

操作模式	發射/接收	測試日期	106 年 09 月 25 日
基本波頻率	CH 39 : 2480 MHz	量測場地溫度	25°C
調變技術	GFSK	量測場地濕度	68%RH
測試者	張仲志		

		6 dB Bandwidth: 9kHz				PHASE: LINE (L)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.16564	10.45	33.09	20.01	43.54	30.46	65.18	55.18	-21.64	-24.72
0.36526	10.51	25.84	20.08	36.35	30.59	58.61	48.61	-22.26	-18.02
0.48041	10.51	37.53	33.33	48.04	43.84	56.33	46.33	-8.29	-2.49
0.95059	10.48	24.62	21.65	35.10	32.13	56.00	46.00	-20.90	-13.87
1.18615	10.49	24.38	21.00	34.87	31.49	56.00	46.00	-21.13	-14.51
21.51815	11.48	16.84	11.51	28.32	22.99	60.00	50.00	-31.68	-27.01

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.

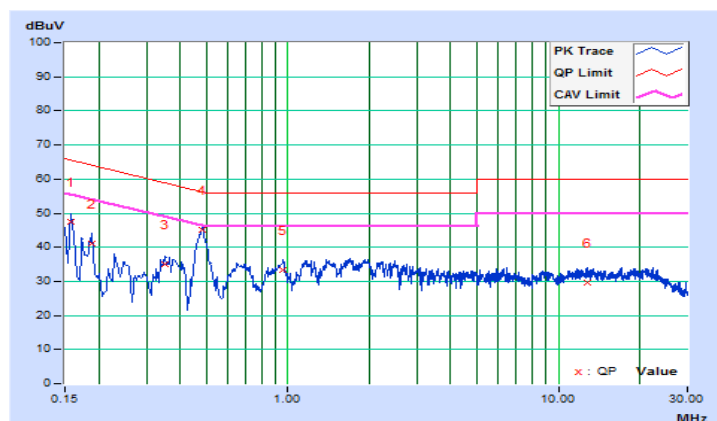


操作模式	發射/接收	測試日期	106 年 09 月 25 日
基本波頻率	CH 39 : 2480 MHz	量測場地溫度	25°C
調變技術	GFSK	量測場地濕度	68%RH
測試者	張仲志		

		6 dB Bandwidth: 9kHz				PHASE: NEUTRAL (N)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15782	10.21	37.26	24.18	47.47	34.39	65.58	55.58	-18.11	-21.19
0.18910	10.22	30.83	18.95	41.05	29.17	64.08	54.08	-23.03	-24.91
0.35203	10.23	24.88	18.51	35.11	28.74	58.91	48.91	-23.80	-20.17
0.48295	10.24	35.04	30.64	45.28	40.88	56.29	46.29	-11.01	-5.41
0.96319	10.26	23.21	19.52	33.47	29.78	56.00	46.00	-22.53	-16.22
12.78712	10.78	18.73	13.49	29.51	24.27	60.00	50.00	-30.49	-25.73

Note:

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



5.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

5.8 配置照片

請參閱附件(Test Setup Photo)。

6 發射頻寬之要求

6.1 適用標準

請見本報告3.1節第5項的規定。

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。

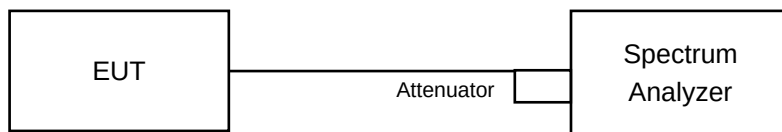
6.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer R&S	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017

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

- 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



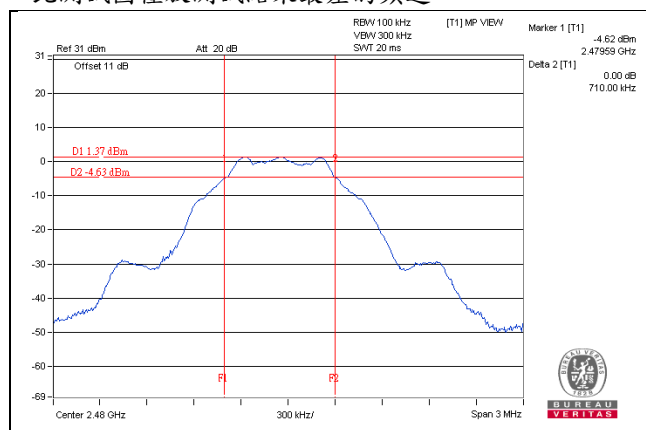
6.5 量測結果

模式 A

操作模式	發射	測試日期	106 年 10 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	吳文傑		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	0.70	0.5	Pass
19	2440	0.70	0.5	Pass
39	2480	0.71	0.5	Pass

**此測試圖僅放測試結果最差的頻道。

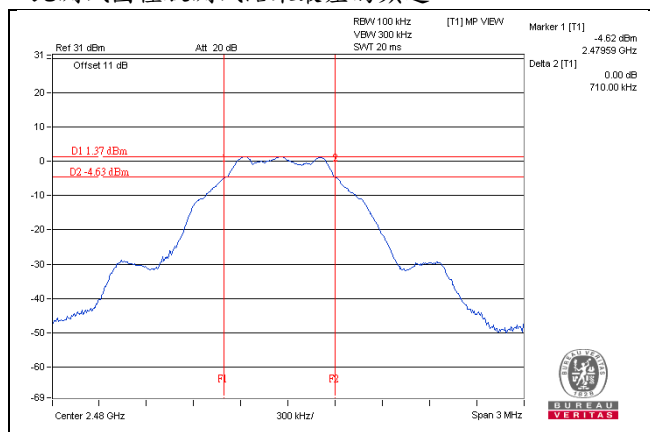


模式 B

操作模式	發射	測試日期	106 年 10 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	吳文傑		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	0.70	0.5	Pass
19	2440	0.70	0.5	Pass
39	2480	0.71	0.5	Pass

**此測試圖僅放測試結果最差的頻道。



6.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

7 輸出峰值功率之量測

7.1 適用標準

請見本報告3.1節第6項的規定。

7.2 量測方法

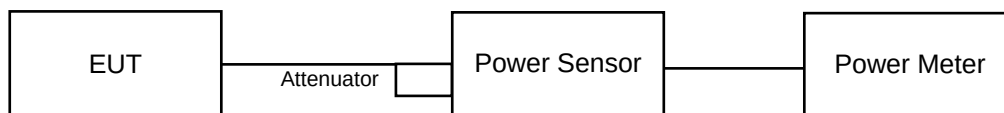
- 將待測物輸出經由衰減器接到功率計上。
- 設定待測物處於連續發射狀態。
- 計算其輸出功率峰值。

7.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
High Speed Peak Power Meter	ML2495A	0824012	Aug. 18, 2017	Aug. 17, 2018
Power Sensor	MA2411B	0738171	Aug. 18, 2017	Aug. 17, 2018

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The 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.
 3. Measurement Bandwidth of ML2495A is 65MHz greater than 6dB bandwidth of emission.

7.4 測試配置



7.5 量測結果

模式 A

操作模式	發射	測試日期	106 年 10 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	吳文傑		

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
0	2402	1.205	0.81	28	Pass
19	2440	1.239	0.93	28	Pass
39	2480	1.250	0.97	28	Pass

Note: Gain = 8dBi > 6dBi, so the limit shall be reduced to 30-(8-6) = 28dBm.

模式 B

操作模式	發射	測試日期	106 年 10 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	吳文傑		

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
0	2402	1.219	0.86	28.2	Pass
19	2440	1.253	0.98	28.2	Pass
39	2480	1.265	1.02	28.2	Pass

Note: Gain = 7.8dBi > 6dBi, so the limit shall be reduced to 30-(7.8-6) = 28.2dBm.

7.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

8 功率密度之量測

8.1 適用標準

請見本報告3.1節第7項的規定。

8.2 量測方法

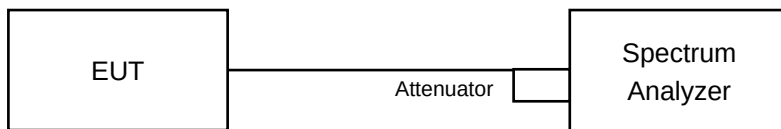
- 將待測物之天線埠經由適當之衰減直接連至測試儀器。
- 設定解析頻寬為3kHz，視訊頻寬為10kHz，掃描時間為auto
- 掃描頻寬設於足夠觀察發射機所產生的主頻信號，並找到最大的峰值準位。
- 校正後的值，其峰值位準必須不大於+8dBm。

8.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer R&S	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The measurement uncertainty is 207Hz, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

8.4 測試配置



8.5 量測結果

模式 A

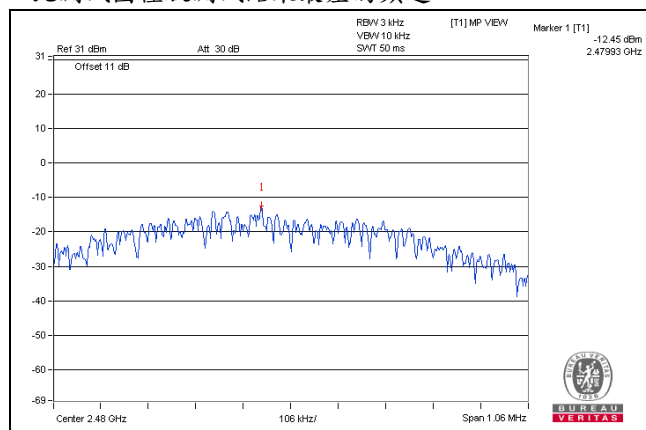
操作模式	發射	測試日期	106 年 10 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	吳文傑		

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	2402	-12.65	1.97	-10.68	6.00	Pass
19	2440	-12.55	1.97	-10.58	6.00	Pass
39	2480	-12.45	1.97	-10.48	6.00	Pass

Note:

1. Gain = 8dBi > 6dBi, so the limit shall be reduced to 8-(8-6) = 6dBm.
2. 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。



模式 B

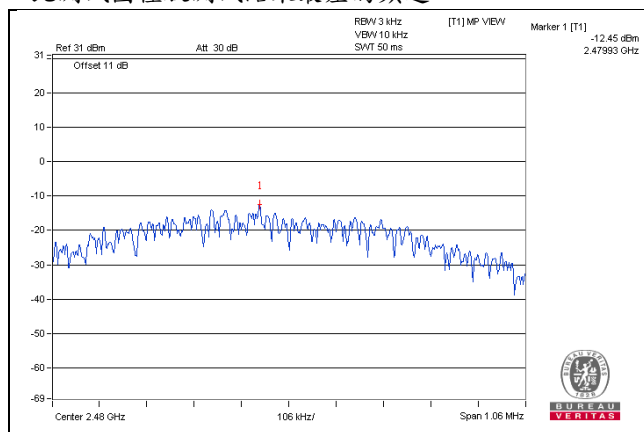
操作模式	發射	測試日期	106 年 10 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	吳文傑		

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	2402	-12.65	1.97	-10.68	6.20	Pass
19	2440	-12.55	1.97	-10.58	6.20	Pass
39	2480	-12.45	1.97	-10.48	6.20	Pass

Note:

1. Gain = 7.8dBi > 6dBi, so the limit shall be reduced to 8-(7.8-6) = 6.20dBm.
2. Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



8.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

9 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 / Telecom 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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