

低功率射頻器材試驗報告

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產品名稱 Mavic 2 Enterprise Advanced

廠牌 DJI

型號 L1TE

系列申請 N/A

報告號碼 E2/2021/20046

技術標準 LP0002, 4.10.1 節

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待測裝置已於台灣檢驗科技股份有限公司射頻實驗中心，依據國家通訊傳播委員會於中華民國一百零九年七月頒佈之低功率射頻器材技術規範測試。

台灣檢驗科技股份有限公司根據此條文規範項目測試，測試各項數據皆能符合此規範規定之限度值。

報告中所描述之測試結果和待測設備的架構組合，均根據實際量測情況作詳實的記錄，且本測試報告僅對上述待測設備樣品負責。

Approved By:



裴笛翰 / 副主任



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Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/20046	00	Original.	民國 110 年 4 月 8 日	林詩珊

Note:

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
- 2、電源線傳導干擾及 Fully System 測試模式在各個無線功能全開下進行測試，經評估為最差模式。

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1 測試實驗室資料

1.1 認可登錄資訊:

實驗室認可登錄： 中華民國實驗室認證體系

認可編號： TAF 3702

認證有效期間： 109年01月30日起至110年06月13日止

實驗室名稱： 台灣檢驗科技股份有限公司射頻實驗中心

實驗室地址： 新北市新北產業園區五工路134號

電話： 886-2-22993939

傳真： 886-2-22982698

1.2 實驗室場地資訊

測試場地	測試場地編號		
新北市新北產業園區五工路 134 號	SAC 1	SAC 3	Conducted 1
	Conducted 2	Conducted 3	Conducted 4
	Conducted 5	Conducted 6	Conducted 7
	Conducted 8	Conducted 9	Conducted 10
桃園市龜山區(華亞科技園區)科技一路 2 號	Conduction A	SAC C	SAC D
	SAC E	Conducted A	Conducted B
	Conducted C	Conducted D	Conducted E
	Conducted F	Conducted G	Conducted H
	Conducted I	Conducted J	Conducted TS8997
註: 測試場地編號記錄於每項測試之儀器清單, 用以表示測試場地地址。			

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2 實驗室之量測不確定度

量測項目	量測不確定度			
	(擴充不確定度)			
傳導干擾量測	電源線	0.15-30MHz	2.34	dB
輻射干擾量測 (3m 測距)	水平極化	9kHz - 30MHz	2.64	dB
		30-1000MHz	4.45	dB
		1-18GHz	4.81	dB
		18-40GHz	4.52	dB
	垂直極化	9kHz - 30MHz	2.64	dB
		30-1000MHz	4.93	dB
		1-18GHz	4.81	dB
		18-40GHz	4.52	dB
頻率誤差量測			1.54	Hz
輸出功率	傳導方式		1	dB
有效輻射功率 (輻射方式)	水平極化	30-1000MHz	2	dB
		1-40GHz	3	dB
	垂直極化	30-1000MHz	2.33	dB
		1-40GHz	3	dB
功率頻譜密度	傳導方式		1.54	dB
鄰頻道功率量測 (輻射方式)	水平極化	30-1000MHz	2	dB
	垂直極化	30-1000MHz	2.33	dB
Transmitter Spurious Emission	33GHz-50GHz		3.8	dB
	50GHz-60GHz		4.67	dB
	60GHz-90GHz		4.81	dB
	90GHz-140GHz		4.57	dB
	140GHz-200GHz		5.42	dB

附註: 1. K=2 即代表測試結果具有95%的量測可信度。

2. 本報告中的符合性判定僅依據試驗結果，不考慮其試驗結果的量測不確定度。

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3 一般資料

3.1 產品描述

產品名稱	Mavic 2 Enterprise Advanced		
型號	L1TE		
產品商標	DJI		
辰陽適配器	Model No.: QC24-US, Brand:DJI		
M2E 夜航燈	Model No.: M2E BEACON, Brand: DJI		
M2E 探照燈	Model No.: M2E SPOTLIGHT, Brand: DJI		
M2E 擴音器	Model No.: M2E SPEAKER, Brand: DJI		
Cable	1. Model No.: RC Cable, Brand: DJI 2. Model No.: A12-0103-AC2+A12-0102-AC2(125V 7A 2P C7), Brand: 博碩科技（江西）有限公司		
使用電源	15.4 Vdc from Lithium Ion Polymer Rechargeable Battery		
	Battery:	Model No.: FB2-3850mAh-15.4V, Brand: DJI	
	Adapter:	Model No.: F2C60, Brand: DJI	
	Remark: Battery is charged by 5V/2A , 17/3.53A , 17.6V/3.41A AC/DC Adapter		

3.2 射頻特性

2.4G

帶寬 (occupied bandwidth)	發射頻帶	頻道數	輸出功率	Modulation Technology
1.4M	2403.5~2477.5	38	13.08 dBm	OFDM
10M	2405.5~2477.5	73	25.78 dBm	OFDM
20M	2410.5~2472.5	63	25.84 dBm	OFDM

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3.3 天線資訊

天線型式	Brand	Model No.	發射頻帶(MHz)	天線增益(dBi)
PCB	DJI	WM240 DRONE ANT L	2400-2483	3.5
PCB	DJI	WM240 DRONE ANT R	2400-2483	3.5

本案經申請者切結器材不提供隨貨配件，配件由申請者提供併同檢驗，產品名稱: RTK dongle，Brand: DJI，型號: M2EARM。

3.4 產品特性

- 1.4M 採用正交分頻多工OFDM調變技術有全段：落於2400~2483.5GHz共有38個頻道。
10M 採用正交分頻多工OFDM調變技術有全段：落於2400~2483.5GHz 共有73個頻道。
20M 採用正交分頻多工OFDM調變技術有全段：落於2400~2483.5GHz 共有63個頻道。

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3.5 最差量測模式

經評估後，比較所有調變、data rate 及 H, E1 & E2 Plan 測試值後，依據下表附上最差模式數據。

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	ANTENNA PORT
1.4M	1 to 38	20	OFDM	ch1
Fully System				

RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	ANTENNA PORT
1.4M	1 to 38	1,20,38	OFDM	ch1
10M	1 to 73	1,37,73	OFDM	ch1
20M	1 to 63	1,32,63	OFDM	ch1

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	ANTENNA PORT
1.4M	1 to 38	1,20,38	OFDM	ch1
10M	1 to 73	1,37,73	OFDM	ch1
20M	1 to 63	1,32,63	OFDM	ch1

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3.6 測試方法之依據

本測試報告之所有項目皆依據國家通訊傳播委員會低功率射頻器材技術規範(LP0002, 109.7.1 版本)如無國家標準可適用者，得依美國 EIA、IEEE ANSI 檢驗法檢驗，及美國 FCC 47 CFR Part 2 有關檢驗之規定及參考 ANSI C63.10:2013、FCC CFR 47 15.247 之檢驗法。

項次	測試項目	適用規範	測試結果
1	場強輻射	低功率射頻器材技術規範4.10.1.5節	合格
2	電源線傳導干擾	低功率射頻器材技術規範3.3節	合格
3	天線增益之要求	低功率射頻器材技術規範4.10.1.3 (1) 節	合格
4	發射頻寬	低功率射頻器材技術規範4.10.1.6(2) (A) 節	合格
5	輸出峰值功率	低功率射頻器材技術規範4.10.1.2(1) (C) 節	合格
6	開放頻帶邊緣之發射	低功率射頻器材技術規範4.10.1.5節	合格
7	功率密度	低功率射頻器材技術規範4.10.1.6(2) (B) 節	合格

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4 適用規範

4.1 規範要求 (一般規定)

(1) 傳導之規定

依據NCC低功率射頻器材技術規範之3.3節，以市電為電源之低功率射頻器材，其傳導回電源線上頻率自150 kHz~30 百萬赫(MHz) 之射頻電壓(在電源端子每一電源線對接地點)應小於或等於下表所列之限制值。測量時應經過50 微亨利(uH)及50 歐姆(Ω)之電源線阻抗穩定網路。頻率重疊處，以較低限制值為準。

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

(2) 輻射之規定

依據NCC低功率射頻器材技術規範3.5之要求，其他開放頻帶外不必要之輻射需符合3.6節之一般限制要求，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值為準。

頻率 MHz	測試距離 m	其他發射之限制值	
		dBμV/m	μV/m
0.009 – 0.490 (含)	300	128.5-93.8	2,400 / 頻率 (千赫)
0.490 (不含) – 1.705 (含)	30	73.8-62.9	24,000 / 頻率 (千赫)
1.705 (不含) – 30 (含)	30		30
30 - 88	3	40.0	100
88 - 216	3	43.5	150
216 - 960	3	46.0	200
960以上	3	54.0	500

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(3) 禁用頻帶限制之規定

依據NCC低功率射頻器材技術規範3.5節之要求，任何低功率射頻器材之主波皆不得使用下表所列各頻帶內之頻率；低功率射頻器材落於下表所列頻帶內之混附發射，其電場強度必須符合第3.6節的限制規定。

頻率 (MHz)	頻率 (MHz)	頻率 (MHz)
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) 依據NCC低功率射頻器材技術規範3.9節之要求，收、發信機為成套銷售者，收、發信機應一併送審或提供經型式認證合格之對應收、發信機之送審資料；送信機之輻射電場強度不得超過第3.6節之發射規定，且不得接收、解調第3.5節所列之頻率。

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4.2 規範要求

依據NCC低功率射頻器材技術規範4.10節 數位調變 (Digitally Modulated) 之要求，使用頻率為2400 MHz至2483.5 MHz 及 5725 MHz 至5850 MHz

(A) 峰值輸出功率之要求

依據 NCC 低功率射頻器材技術規範 4.10.1.2(1) (A)(C)之規定，操作於 2400-2483.5 兆赫 (MHz)與 5725-5850 兆赫(MHz)之所有數位調變技術系統：1 瓦(W)以下。

除使用附件二之峰值輸出功率量測方式外，並得使用以最大傳導輸出功率(Maximum Conducted Output Power)作為量測方式。

最大傳導輸出功率，定義為發射器操作在最大功率時，輸出至所有天線及天線單元 (antenna elements) 之總發射功率對信號集 (signaling alphabet) 所有符號 (symbol) 之平均值。此平均值不含發射器停止或已降低發射功率位準之任何時間區段。器材可操作於不同調變模式等多種模式時，最大傳導輸出功率為各模式之總發射功率其中最高者。

(B) 天線增益之要求

依據NCC低功率射頻器材技術規範4.10.1.3之規定，進行固定式點對點操作時，應符合下列情現之一：依據NCC低功率射頻器材技術規範4.10.1.3 (1)之規定，操作頻率為2400-2483.5兆赫(MHz)者，其發射天線之方向性增益超過6dBi，每超過3dB應降低1dB之最大傳導輸出功率。

依據NCC低功率射頻器材技術規範4.10.1.3 (2)之規定，操作頻率為5725-5850兆赫(MHz)者，其發射天線之方向性增益超過6dBi，不需降低最大傳導輸出功率。

依據NCC低功率射頻器材技術規範4.10.1.3 (3)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

(C) 發射限制之要求

依據NCC低功率射頻器材技術規範4.10.1.5之規定，帶外發射限制：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。

此外，落於3.5 禁用頻段之輻射發射，應符合3.6 之規定。

(D) 頻寬之要求

依據NCC低功率射頻器材技術規範4.10.1.6(2) (A)規定，6dB之頻寬至少應500kHz。

(E) 功率密度之要求

依據NCC低功率射頻器材技術規範4.10.1.6(2) (B)規定，在使用頻率範圍之任意3千赫 (kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於8dBm。

註：此產品為點對多點操作。

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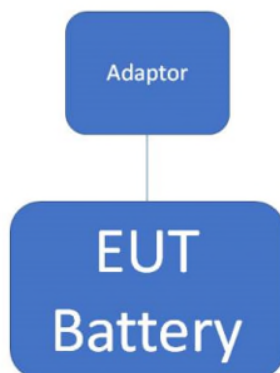
5 測試配置

5.1 待測物與測試週邊配置圖

Conducted (Antenna Port) & Radiated Emission



Conduction (AC Power Line) Emission

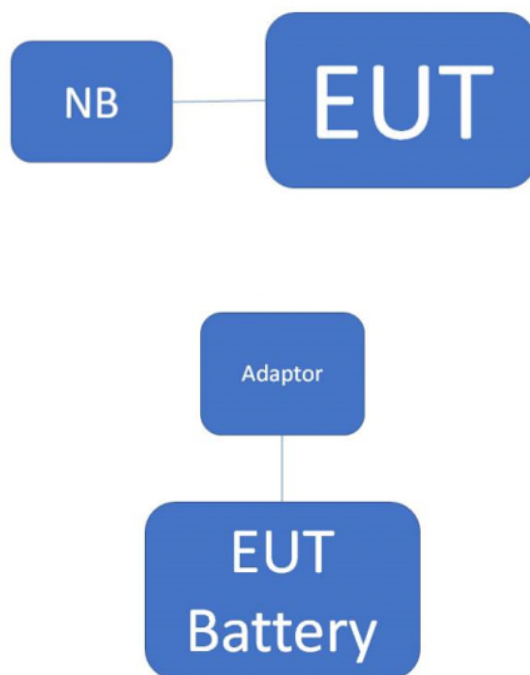


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System Mode



5.2 測試週邊描述

編號	產品別	商標	版本	型號	序號
1.	DjiSdrConsole	N/A	V1.3.5.67	N/A	N/A
2.	Notebook	Lenovo	N/A	L440	P0000367

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6 量測儀器設備

6.1 AC 電源端傳導干擾之量測儀器

Radiated Emission Test Site: Conduction A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	03/25/2020	03/24/2021
EMI Test Receiver	R&S	ESCI	101342	04/28/2020	04/27/2021
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2020	03/26/2021
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2020	03/26/2021
Micro SD Card	Transcend	8GB	NA	N.C.R	N.C.R
USB Cable	EDISON	EDS-J822	USB to Micro	N.C.R	N.C.R
Power Box	REMAX	REMAX E5	I/o Battery	N.C.R	N.C.R
Test Software	audix	e3	Ver. 6.11-20180419c	N.C.R	N.C.R

6.2 天線端傳導測試之量測儀器

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1512003	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339378	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339379	07/23/2020	07/22/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F2A 196C	RF70	11/19/2020	11/18/2021
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021

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6.3 量測場強輻射之量測儀器

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

註: 以上部份設備跟量測值沒有影響，且沒有直接關聯，因此不需要進行校正。

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7 電源線傳導干擾之量測

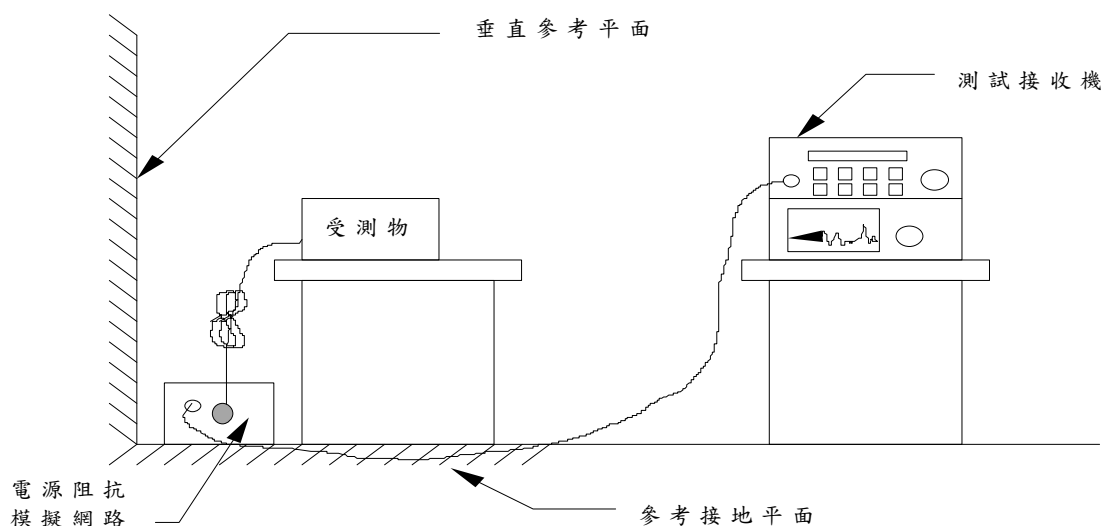
7.1 適用標準

依據NCC低功率射頻器材技術規範3.3節之要求。

7.2 測試方法

將待測物置於0.8米高的非金屬桌面，使其在工作狀態，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的峰值量側(Peak)並提供掃描圖，Mark 最大的六個頻率點進行準峰值量測(QP),如果準峰值QP結果值已低於AV限制值時將不再進行AV值的量測。

7.3 測試配置



7.4 干擾值之計算

電源傳導干擾電壓之計算公式如下

$$\text{結果值} = \text{儀器讀值}(QP/AV) + \text{校正因子}$$

其中校正因子為：

$$\text{饋線損失} + \text{電源阻抗模擬網路損失}$$

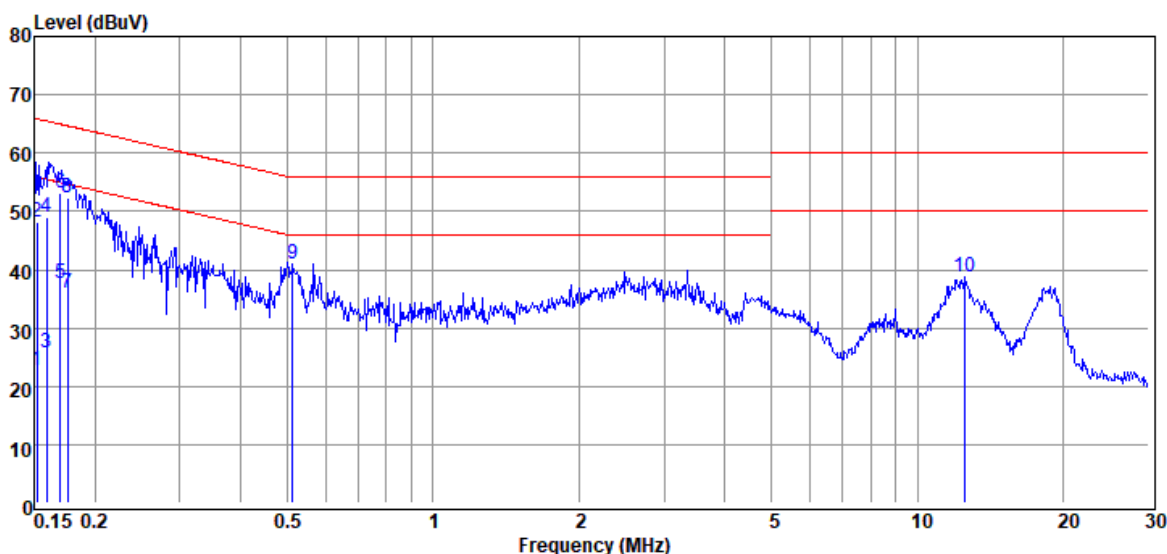
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7.5 傳導干擾之量測結果

Report Number	:E2-2021-20046	Test Site	:Conduction Room C
Test Mode	:System RTK模組	Test Date	:2021-03-08
Power	:110V/60Hz	Temp./Humi.	:24.1/56
Probe	:L1	Engineer	:Enzo Chang
Note:	:		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	12.35	10.22	22.57	55.90	-33.33
0.15	QP	37.98	10.22	48.20	65.90	-17.70
0.16	Average	15.51	10.22	25.73	55.51	-29.78
0.16	QP	38.90	10.22	49.12	65.51	-16.39
0.17	Average	27.42	10.22	37.64	54.96	-17.32
0.17	QP	42.80	10.22	53.02	64.96	-11.94
0.18	Average	25.64	10.22	35.86	54.68	-18.82
0.18	QP	42.22	10.22	52.44	64.68	-12.24
0.51	Peak	30.71	10.23	40.94	56.00	-15.06
12.52	Peak	27.95	10.75	38.70	60.00	-21.30

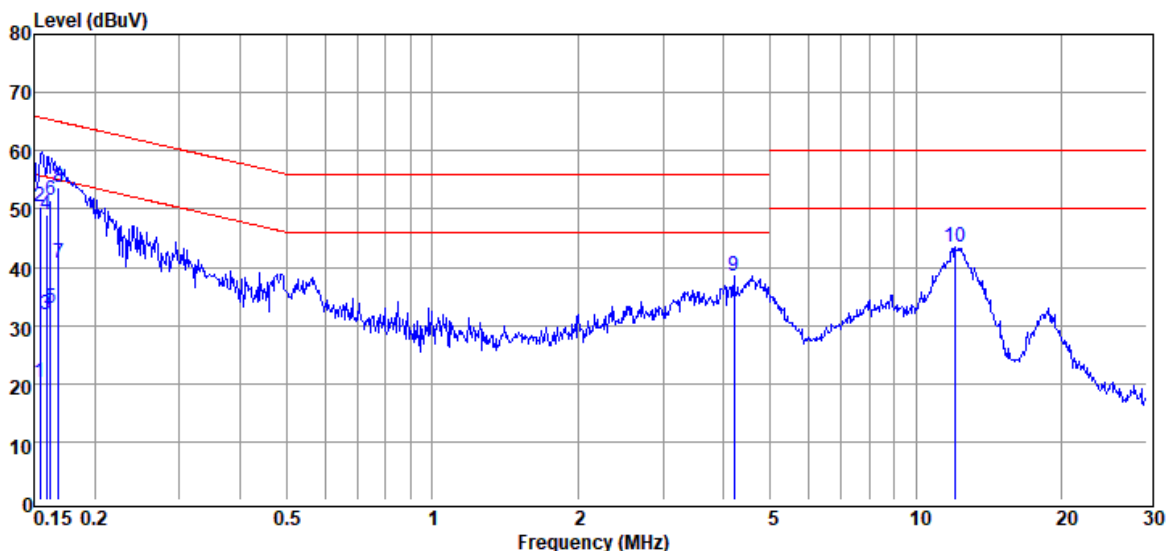
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Report Number :E2-2021-20046
Test Mode :System RTK模組
Power :110V/60Hz
Probe :N
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.1/56
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	9.88	10.21	20.09	55.76	-35.67
0.15	QP	40.11	10.21	50.32	65.76	-15.44
0.16	Average	21.60	10.21	31.81	55.50	-23.69
0.16	QP	38.69	10.21	48.90	65.50	-16.60
0.16	Average	22.66	10.21	32.87	55.35	-22.48
0.16	QP	41.40	10.21	51.61	65.35	-13.74
0.17	Average	30.39	10.21	40.60	55.03	-14.43
0.17	QP	43.45	10.21	53.66	65.03	-11.37
4.20	Peak	28.01	10.50	38.51	56.00	-17.49
12.06	Peak	32.63	10.75	43.38	60.00	-16.62

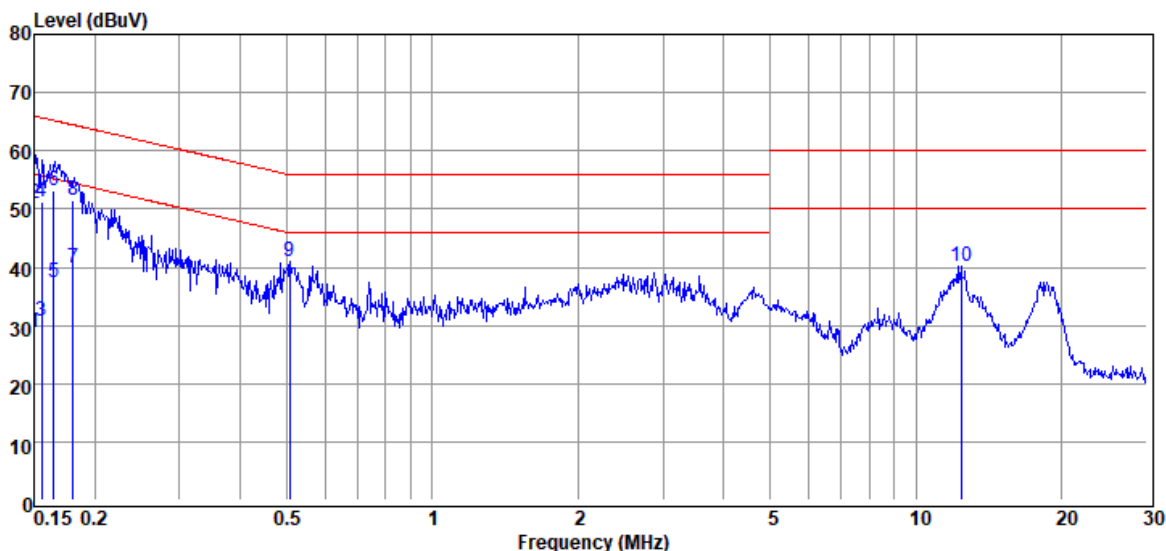
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Report Number :E2-2021-20046
Test Mode :System 探照燈
Power :110V/60Hz
Probe :L1
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.3/56
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	18.62	10.22	28.84	55.98	-27.14
0.15	QP	40.60	10.22	50.82	65.98	-15.16
0.16	Average	20.39	10.22	30.61	55.70	-25.09
0.16	QP	40.90	10.22	51.12	65.70	-14.58
0.16	Average	27.02	10.22	37.24	55.22	-17.98
0.16	QP	42.87	10.22	53.09	65.22	-12.13
0.18	Average	29.73	10.22	39.95	54.47	-14.52
0.18	QP	41.34	10.22	51.56	64.47	-12.91
0.51	Peak	30.70	10.23	40.93	56.00	-15.07
12.38	Peak	29.48	10.75	40.23	60.00	-19.77

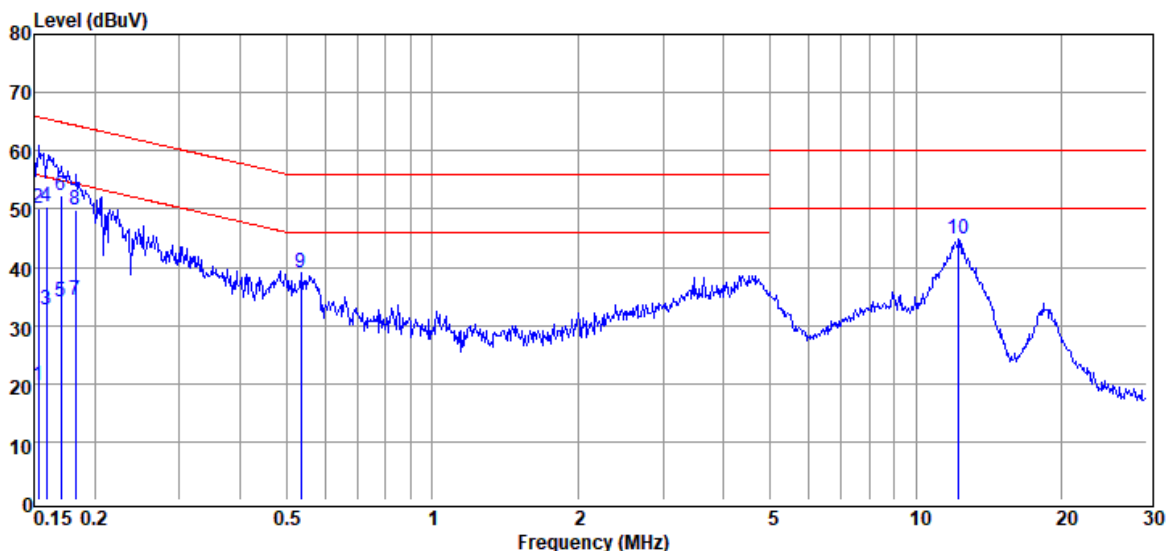
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Report Number :E2-2021-20046
Test Mode :System 探照燈
Power :110V/60Hz
Probe :N
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.3/56
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	9.39	10.21	19.60	55.84	-36.24
0.15	QP	39.99	10.21	50.20	65.84	-15.64
0.16	Average	22.49	10.21	32.70	55.51	-22.81
0.16	QP	40.23	10.21	50.44	65.51	-15.07
0.17	Average	23.97	10.21	34.18	54.94	-20.76
0.17	QP	42.19	10.21	52.40	64.94	-12.54
0.18	Average	24.09	10.21	34.30	54.37	-20.07
0.18	QP	39.60	10.21	49.81	64.37	-14.56
0.53	Peak	28.82	10.24	39.06	56.00	-16.94
12.25	Peak	34.13	10.75	44.88	60.00	-15.12

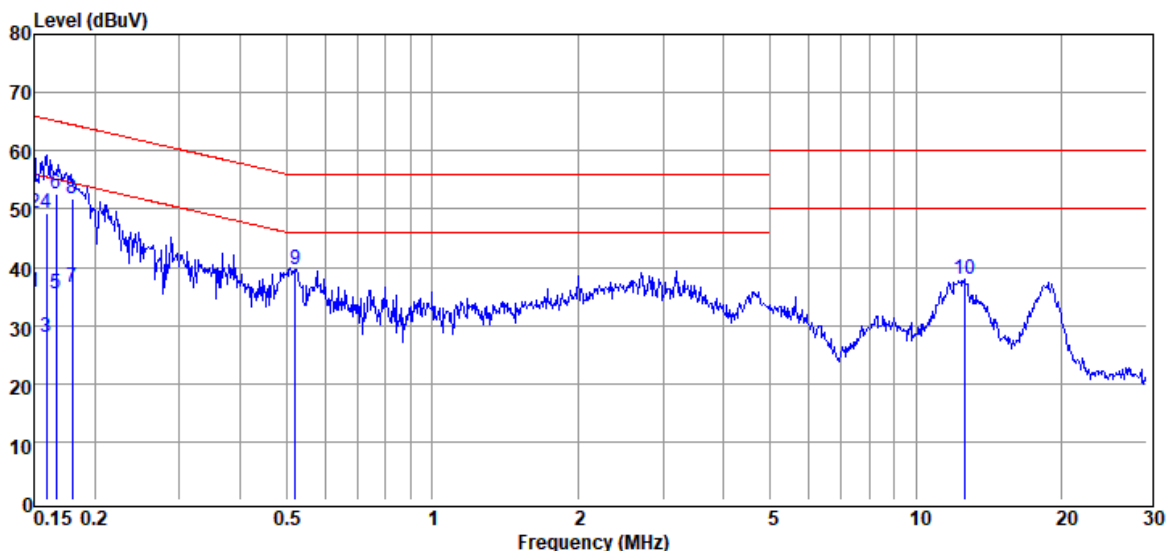
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Report Number :E2-2021-20046
Test Mode :System 夜航燈
Power :110V/60Hz
Probe :L1
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.2/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	25.51	10.22	35.73	55.99	-20.26
0.15	QP	39.00	10.22	49.22	65.99	-16.77
0.16	Average	17.88	10.22	28.10	55.51	-27.41
0.16	QP	39.19	10.22	49.41	65.51	-16.10
0.17	Average	25.31	10.22	35.53	55.12	-19.59
0.17	QP	42.29	10.22	52.51	65.12	-12.61
0.18	Average	26.35	10.22	36.57	54.49	-17.92
0.18	QP	41.41	10.22	51.63	64.49	-12.86
0.52	Peak	29.38	10.25	39.63	56.00	-16.37
12.58	Peak	27.08	10.75	37.83	60.00	-22.17

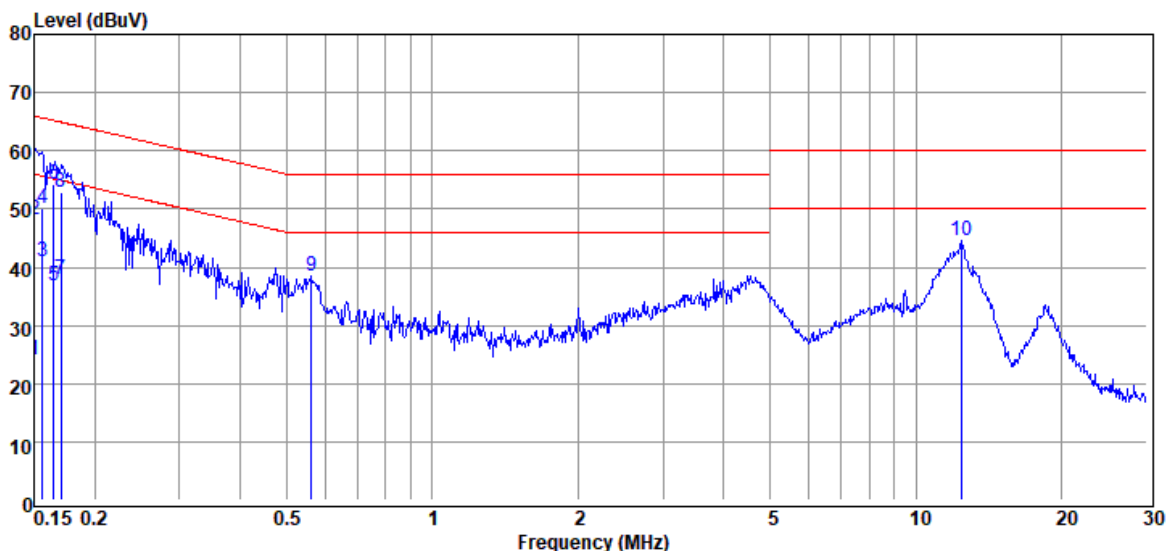
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Report Number :E2-2021-20046
Test Mode :System 夜航燈
Power :110V/60Hz
Probe :N
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.2/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	13.90	10.21	24.11	55.98	-31.87
0.15	QP	37.89	10.21	48.10	65.98	-17.88
0.16	Average	30.86	10.21	41.07	55.66	-14.59
0.16	QP	39.96	10.21	50.17	65.66	-15.49
0.16	Average	26.68	10.21	36.89	55.21	-18.32
0.16	QP	44.06	10.21	54.27	65.21	-10.94
0.17	Average	27.73	10.21	37.94	54.94	-17.00
0.17	QP	42.59	10.21	52.80	64.94	-12.14
0.56	Peak	28.32	10.26	38.58	56.00	-17.42
12.38	Peak	33.83	10.76	44.59	60.00	-15.41

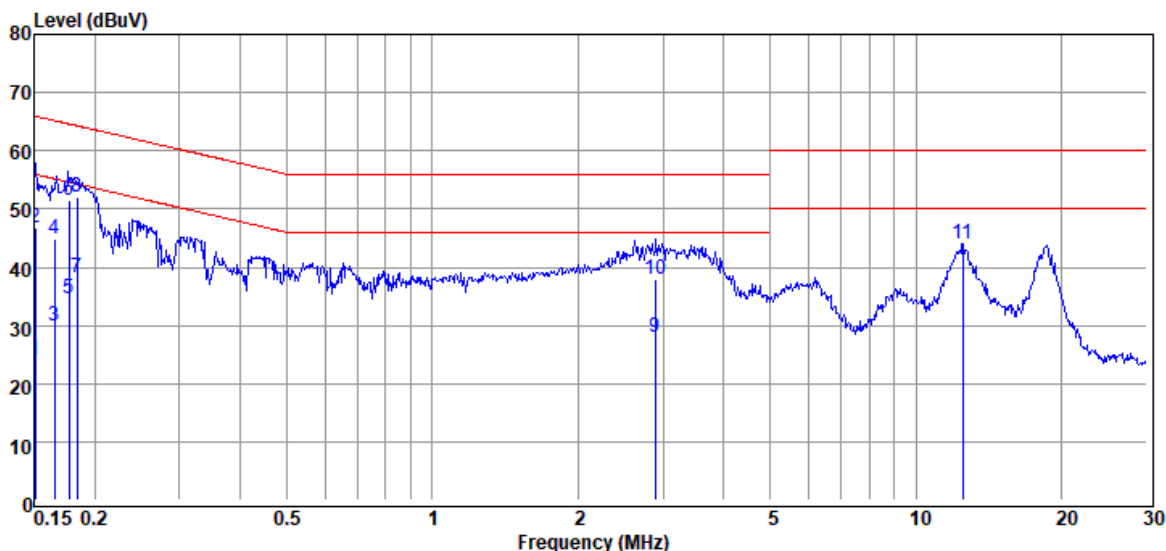
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Report Number :E2-2021-20046
Test Mode :System 擴音器
Power :110V/60Hz
Probe :L1
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.1/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	13.92	10.22	24.14	55.94	-31.80
0.15	QP	36.54	10.22	46.76	65.94	-19.18
0.17	Average	19.73	10.22	29.95	55.19	-25.24
0.17	QP	34.50	10.22	44.72	65.19	-20.47
0.18	Average	24.42	10.22	34.64	54.63	-19.99
0.18	QP	41.40	10.22	51.62	64.63	-13.01
0.18	Average	27.86	10.22	38.08	54.30	-16.22
0.18	QP	41.93	10.22	52.15	64.30	-12.15
2.89	Average	17.36	10.47	27.83	46.00	-18.17
2.89	QP	27.55	10.47	38.02	56.00	-17.98
12.52	Peak	33.23	10.75	43.98	60.00	-16.02

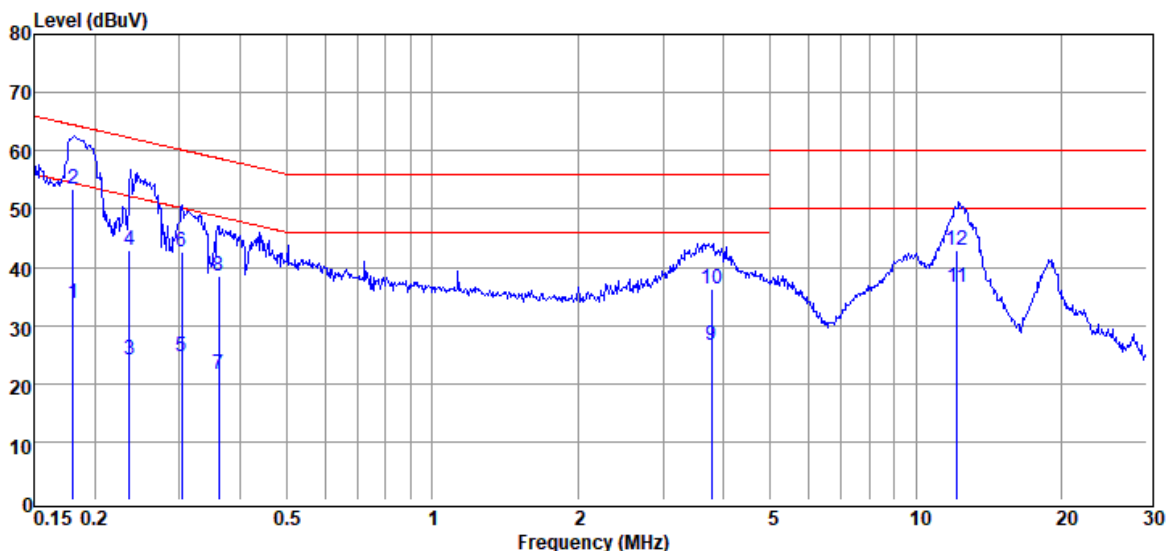
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Report Number :E2-2021-20046
Test Mode :System 擴音器
Power :110V/60Hz
Probe :N
Note:

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.1/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.18	Average	23.43	10.21	33.64	54.47	-20.83
0.18	QP	43.27	10.21	53.48	64.47	-10.99
0.24	Average	13.89	10.21	24.10	52.21	-28.11
0.24	QP	32.78	10.21	42.99	62.21	-19.22
0.30	Average	14.38	10.22	24.60	50.16	-25.56
0.30	QP	32.42	10.22	42.64	60.16	-17.52
0.36	Average	11.38	10.22	21.60	48.69	-27.09
0.36	QP	28.34	10.22	38.56	58.69	-20.13
3.78	Average	15.95	10.49	26.44	46.00	-19.56
3.78	QP	25.84	10.49	36.33	56.00	-19.67
12.14	Average	25.66	10.75	36.41	50.00	-13.59
12.14	QP	32.15	10.75	42.90	60.00	-17.10

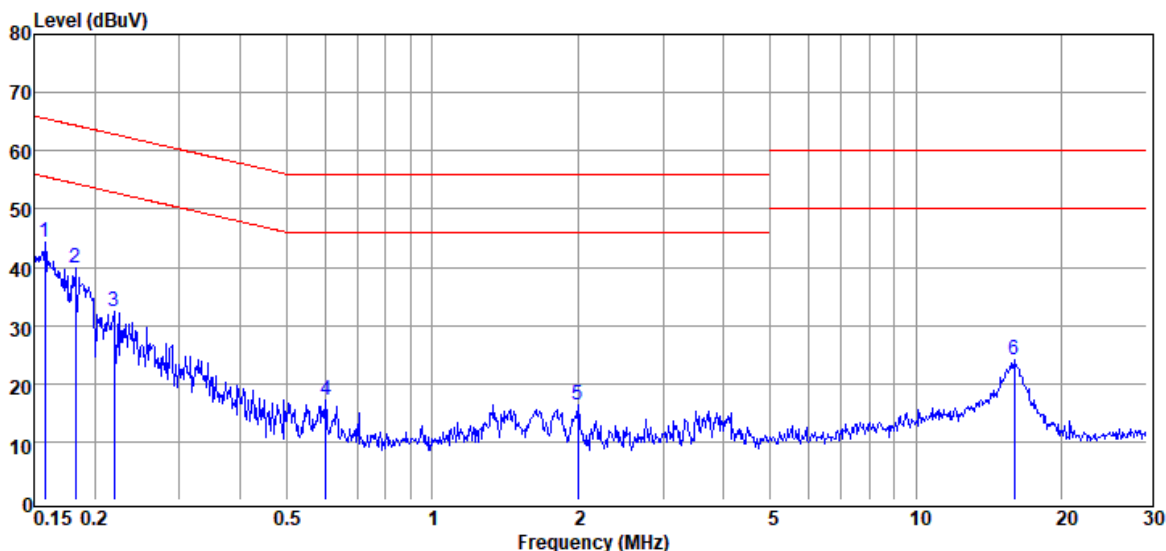
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Report Number :E2-2021-20046
Test Mode :System 充電組
Power :110V/60Hz
Probe :L1
Note: : Adapter:F2C60

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.0/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.16	Peak	34.06	10.22	44.28	65.56	-21.28
0.18	Peak	29.73	10.22	39.95	64.37	-24.42
0.22	Peak	22.09	10.22	32.31	62.83	-30.52
0.60	Peak	7.00	10.29	17.29	56.00	-38.71
2.00	Peak	5.92	10.45	16.37	56.00	-39.63
15.97	Peak	13.25	10.80	24.05	60.00	-35.95

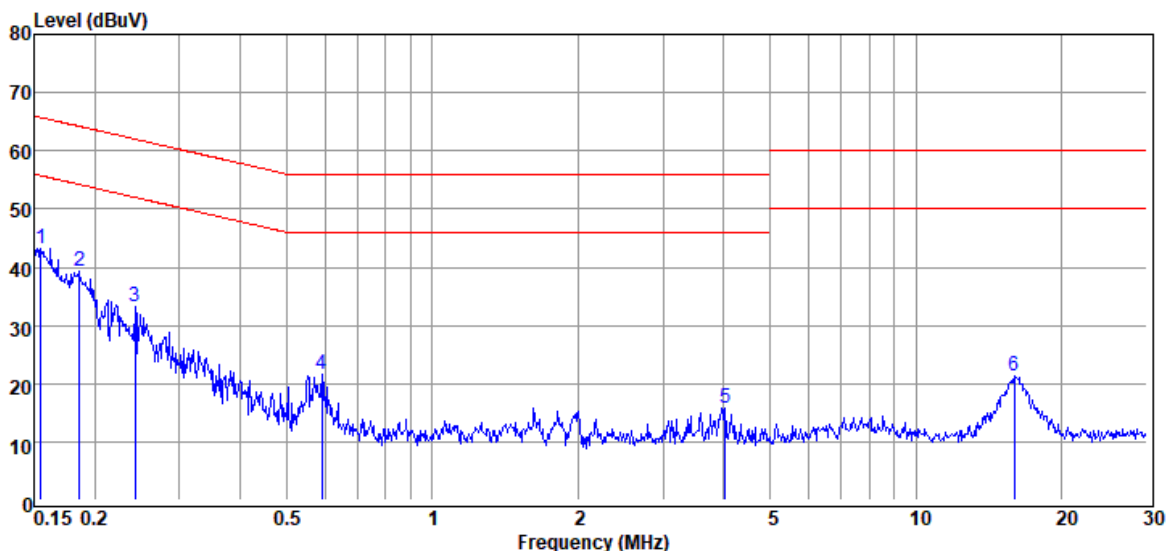
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Report Number :E2-2021-20046
Test Mode :System 充電組
Power :110V/60Hz
Probe :N
Note: : Adapter:F2C60

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.0/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Peak	33.09	10.21	43.30	65.74	-22.44
0.19	Peak	29.14	10.21	39.35	64.20	-24.85
0.24	Peak	22.91	10.21	33.12	62.00	-28.88
0.59	Peak	11.42	10.26	21.68	56.00	-34.32
4.03	Peak	5.38	10.49	15.87	56.00	-40.13
15.97	Peak	10.54	10.81	21.35	60.00	-38.65

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8 場強輻射之量測

8.1 適用標準

依據NCC低功率射頻器材技術規範3.6之要求，低功率射頻器材其電場強度應小於或等於下表之限制值，且其不必要之發射皆不得大於主波發射強度，此外，落於3.5禁用頻段之輻射發射，應符合3.6之規定。

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

8.2 量測方法

將待測物置於非金屬桌面，測試頻率1GHz以下時，使用桌高0.8 米，1GHz以上時，使用桌高1.5米，使其在工作狀態，接收天線置於 3 米外相同的高度。待測物分別要垂直或水平放置，而且桌面要 360 度旋轉，另外接收天線也要從 1.0 米至 4.0 米升降變化，以找出最大的輻射電場強度，接收天線置於水平、垂直極向各執行測試一次。

以下為頻譜儀的設定：

頻率	RBW	VBW	Detector
9kHz~150kHz	300Hz	300Hz	Quasi-Peak
150kHz~30MHz	10kHz	10kHz	Quasi-Peak
1GHz以下	100kHz	100kHz	Peak / Quasi-Peak
1GHz以上	1MHz	3MHz	Peak
1GHz以上 Duty Cycle ≥ 98%	1MHz	10Hz	Average
1GHz以上 Duty Cycle < 98%	1MHz	1/T	Average

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8.3 場強度之計算

1. Distance extrapolation = $40 \cdot \log (\text{Required Distance(m)} / \text{Test Distance(m)})$
2. Emission level (dB μ V/m) = $20 \log \text{Emission level } (\mu\text{V/m})$
3. Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)
Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

註:

9 kHz ~ 30MHz 之幅射量測皆低於限制值 20dB 以上，依據LP0002 6.13規定混附發射毋需記錄。
幅射量測僅放最差模式（30MHz 以上）。

比較 H Plane、E1 Plane 和 E2 Plane 測試值後，附上最差模式數據。

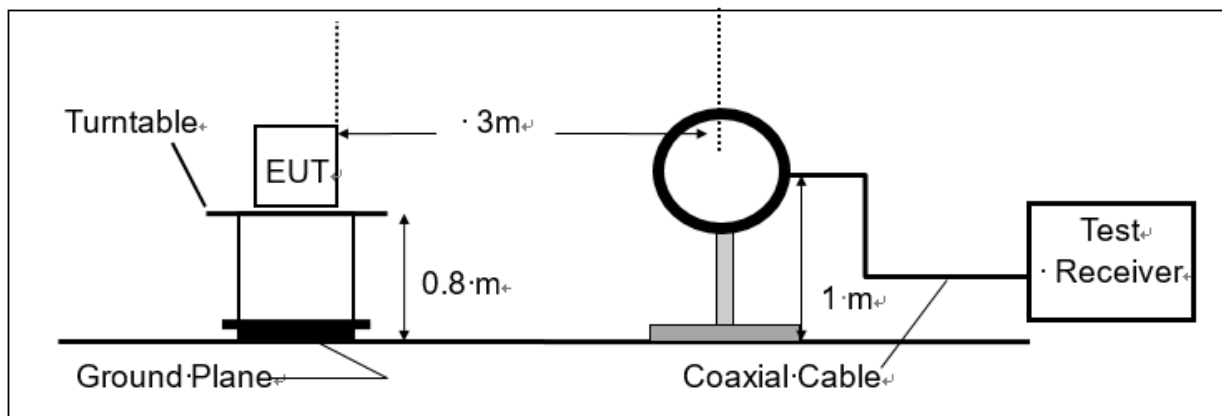
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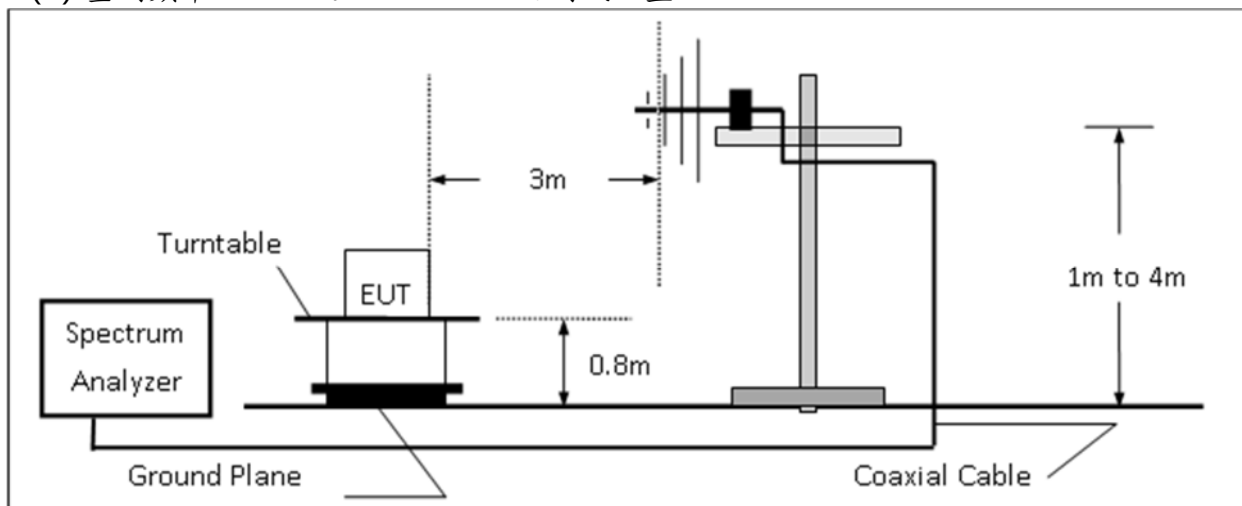
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8.4 輻射之測試配置

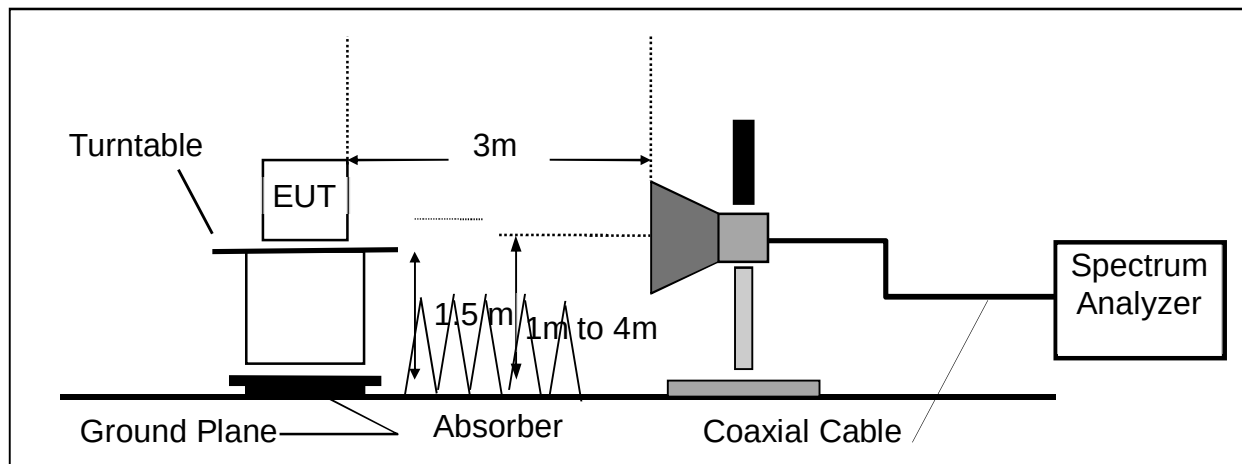
(A) 量測頻率低於 30MHz 以下之測試配置



(B) 量測頻率 30MHz 至 1000MHz 之測試配置



(C) 量測頻率 1000MHz 以上之測試配置



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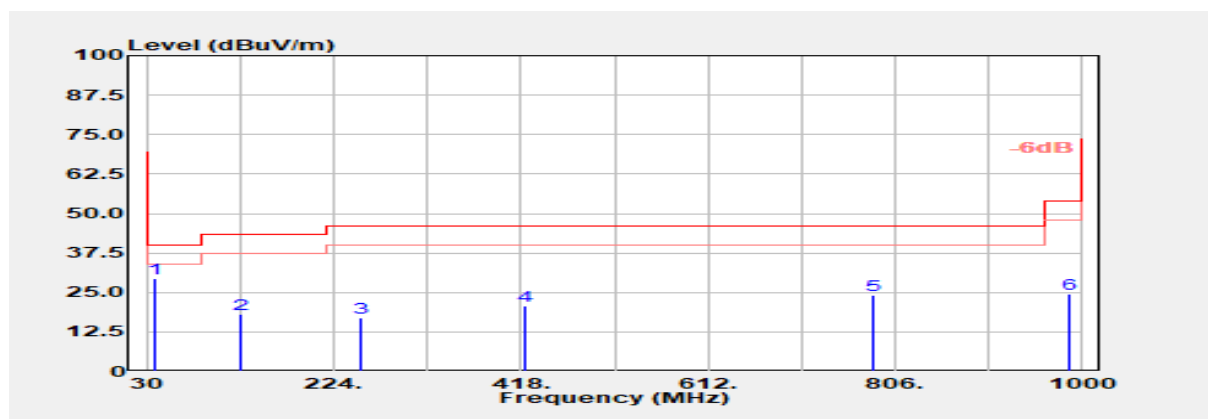
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8.5 場強輻射之量測結果

8.5.1 發射模式 1GHz 以下測試 (最差模式)

Report Number	:E2/2021/20046	Test Site	:966 Chamber C
Operation Mode	:2.4G 1.4M	Test Date	:2021-03-12
Test Frequency	:2441.5 MHz	Temp./Humi.	:19.1/69
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.327	Peak	41.12	-11.58	29.54	40.00	-10.46
126.378	Peak	34.84	-16.78	18.06	43.50	-25.44
252.292	Peak	32.76	-15.90	16.87	46.00	-29.13
421.731	Peak	32.31	-11.70	20.61	46.00	-25.39
783.926	Peak	31.20	-6.93	24.27	46.00	-21.73
986.010	Peak	29.76	-5.14	24.62	54.00	-29.38

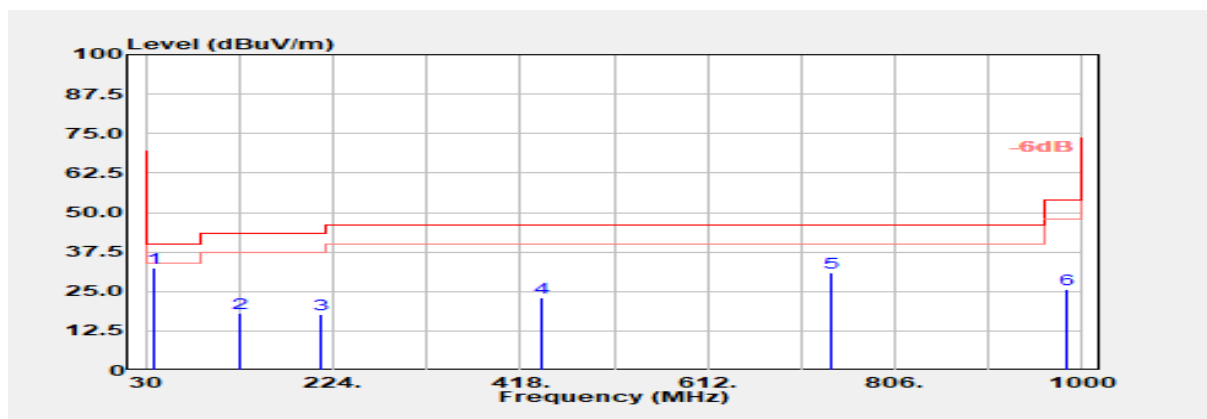
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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2441.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :19.1/69
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.327	Peak	43.91	-11.58	32.33	40.00	-7.67
126.378	Peak	34.89	-16.78	18.11	43.50	-25.39
211.875	Peak	37.21	-19.49	17.73	43.50	-25.77
440.385	Peak	34.85	-11.80	23.05	46.00	-22.95
740.401	Peak	38.27	-7.17	31.10	46.00	-14.90
982.901	Peak	30.68	-5.03	25.65	54.00	-28.35

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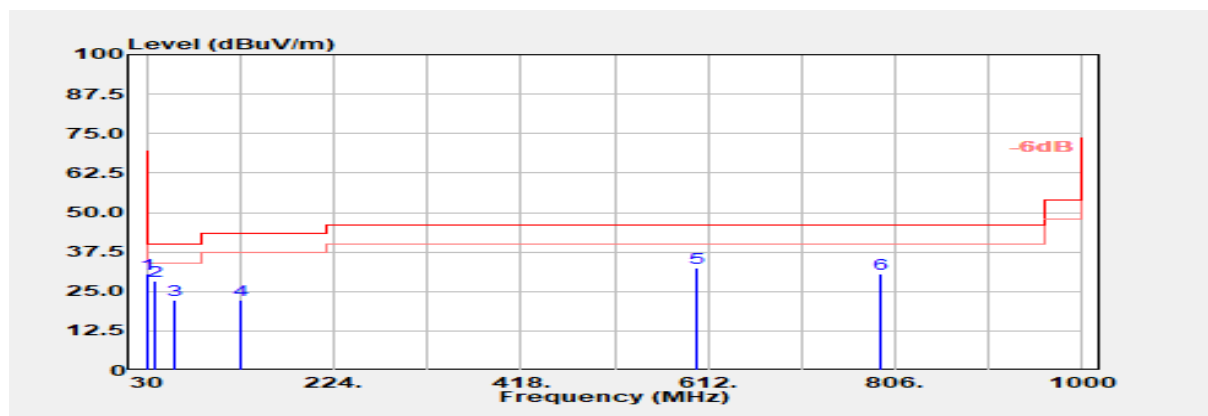
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Fully System

Report Number :E2/2021/20046
Operation Mode :System 夜航燈
Test Frequency :System 夜航燈
Test Mode :System 夜航燈
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.1/64
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.554	Peak	37.69	-7.29	30.40	40.00	-9.60
37.772	Peak	39.08	-10.79	28.28	40.00	-11.72
57.981	Peak	46.47	-24.03	22.45	40.00	-17.55
126.378	Peak	39.22	-16.78	22.44	43.50	-21.06
600.497	Peak	41.94	-9.44	32.50	46.00	-13.50
791.699	Peak	37.59	-7.03	30.56	46.00	-15.44

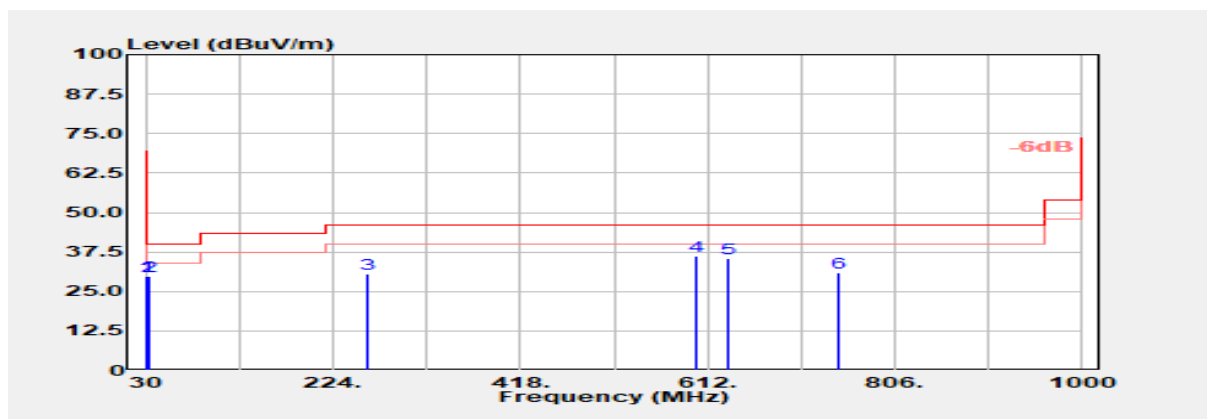
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Report Number :E2/2021/20046
Operation Mode :System 夜航燈
Test Frequency :System 夜航燈
Test Mode :System 夜航燈
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.1/64
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.554	Peak	37.13	-7.29	29.84	40.00	-10.16
34.663	Peak	38.68	-8.86	29.81	40.00	-10.19
258.510	Peak	45.70	-15.18	30.52	46.00	-15.48
600.497	Peak	45.65	-9.44	36.21	46.00	-9.79
633.141	Peak	43.83	-8.38	35.45	46.00	-10.55
746.619	Peak	38.75	-7.79	30.96	46.00	-15.04

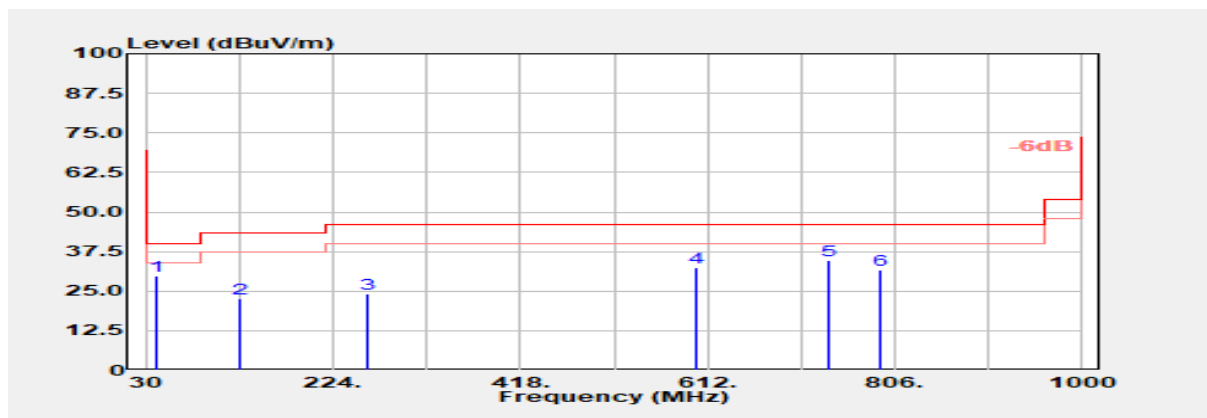
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Report Number :E2/2021/20046
Operation Mode :System RTK模組
Test Frequency :System RTK模組
Test Mode :System RTK模組
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.0/65
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
40.881	Peak	42.46	-12.80	29.66	40.00	-10.34
126.378	Peak	39.28	-16.78	22.50	43.50	-21.00
258.510	Peak	39.21	-15.18	24.03	46.00	-21.97
600.497	Peak	41.87	-9.44	32.43	46.00	-13.57
737.292	Peak	41.91	-7.26	34.65	46.00	-11.35
791.699	Peak	38.77	-7.03	31.75	46.00	-14.25

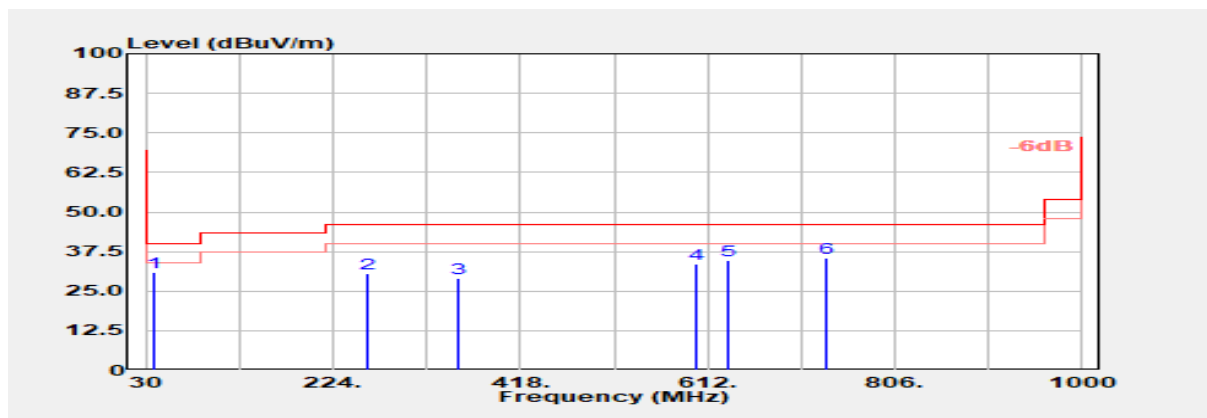
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Report Number :E2/2021/20046
Operation Mode :System RTK模組
Test Frequency :System RTK模組
Test Mode :System RTK模組
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.0/65
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.327	Peak	42.53	-11.58	30.95	40.00	-9.05
258.510	Peak	45.84	-15.18	30.67	46.00	-15.33
354.888	Peak	43.10	-13.88	29.22	46.00	-16.78
600.497	Peak	43.05	-9.44	33.61	46.00	-12.39
633.141	Peak	43.18	-8.38	34.80	46.00	-11.20
734.183	Peak	42.79	-7.49	35.30	46.00	-10.70

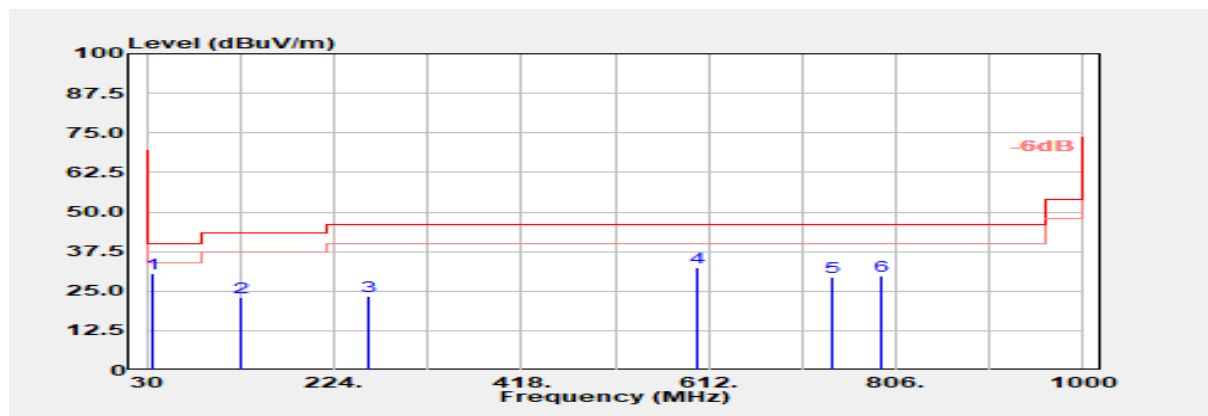
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Report Number :E2/2021/20046
Operation Mode :System 探照燈
Test Frequency :System 探照燈
Test Mode :System 探照燈
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.0/65
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
36.218	Peak	40.69	-10.03	30.66	40.00	-9.34
126.378	Peak	39.73	-16.78	22.95	43.50	-20.55
258.510	Peak	38.66	-15.18	23.48	46.00	-22.52
600.497	Peak	42.00	-9.44	32.56	46.00	-13.44
740.401	Peak	36.49	-7.17	29.31	46.00	-16.69
791.699	Peak	36.91	-7.03	29.88	46.00	-16.12

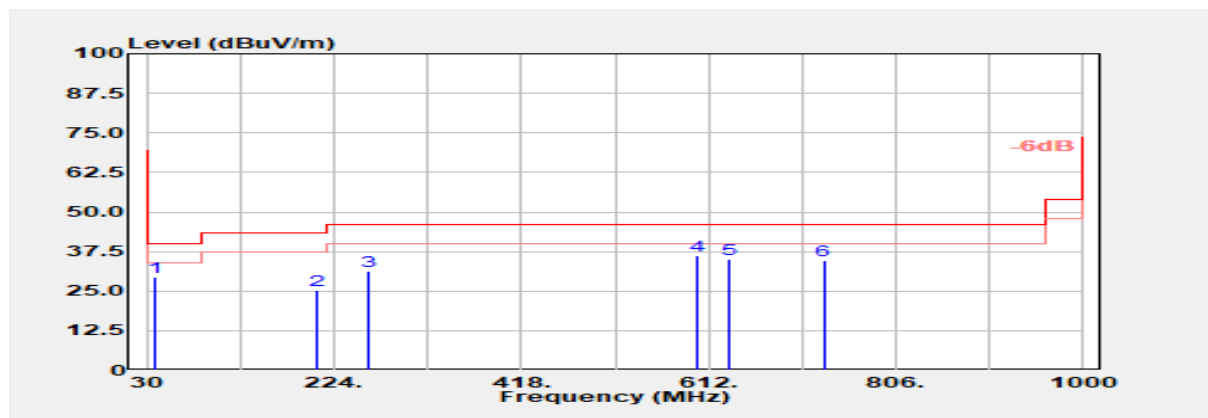
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Report Number :E2/2021/20046
Operation Mode :System 探照燈
Test Frequency :System 探照燈
Test Mode :System 探照燈
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.0/65
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.772	Peak	40.30	-10.79	29.51	40.00	-10.49
207.212	Peak	44.48	-19.30	25.18	43.50	-18.32
258.510	Peak	46.56	-15.18	31.39	46.00	-14.61
600.497	Peak	45.54	-9.44	36.10	46.00	-9.90
633.141	Peak	43.63	-8.38	35.26	46.00	-10.74
731.074	Peak	42.69	-7.87	34.83	46.00	-11.17

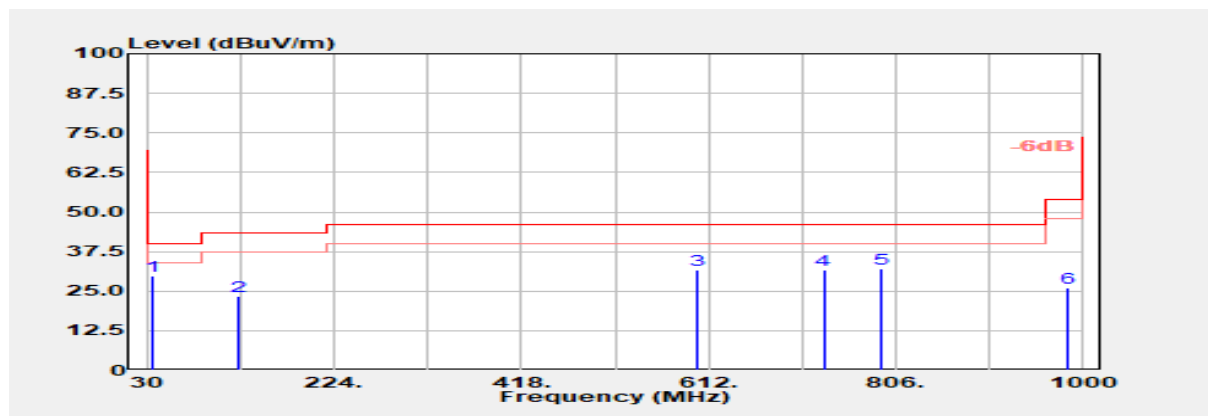
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Report Number :E2/2021/20046
Operation Mode :System 擴音器
Test Frequency :System 擴音器
Test Mode :System 擴音器
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :21.9/64
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.218	Peak	39.87	-10.03	29.84	40.00	-10.16
124.824	Peak	40.17	-16.80	23.37	43.50	-20.13
600.497	Peak	41.11	-9.44	31.66	46.00	-14.34
731.074	Peak	39.73	-7.87	31.86	46.00	-14.14
791.699	Peak	39.05	-7.03	32.03	46.00	-13.97
984.455	Peak	31.06	-5.18	25.88	54.00	-28.12

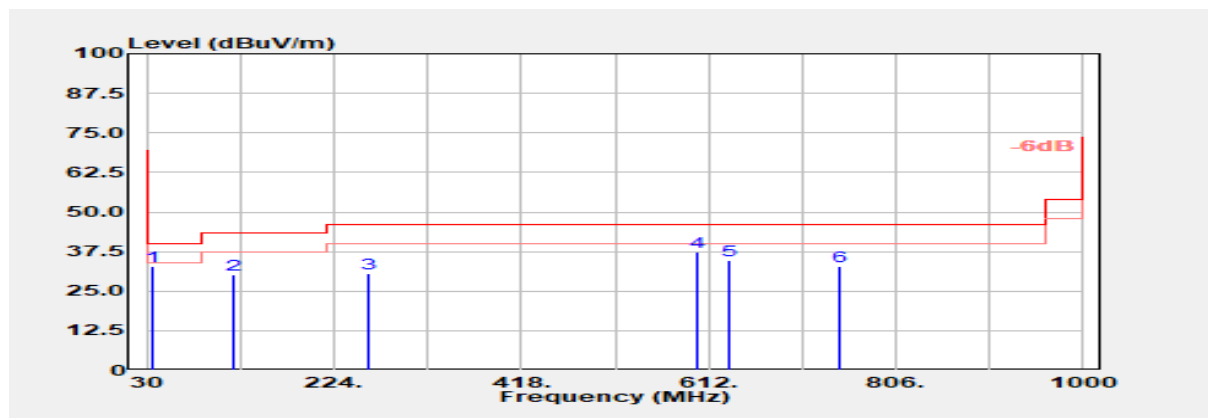
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Report Number :E2/2021/20046
Operation Mode :System 擴音器
Test Frequency :System 擴音器
Test Mode :System 擴音器
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :21.9/64
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.218	Peak	43.02	-10.03	32.99	40.00	-7.01
120.160	Peak	47.02	-17.01	30.01	43.50	-13.49
258.510	Peak	45.89	-15.18	30.71	46.00	-15.29
600.497	Peak	46.81	-9.44	37.36	46.00	-8.64
633.141	Peak	42.93	-8.38	34.55	46.00	-11.45
748.173	Peak	40.30	-7.54	32.76	46.00	-13.24

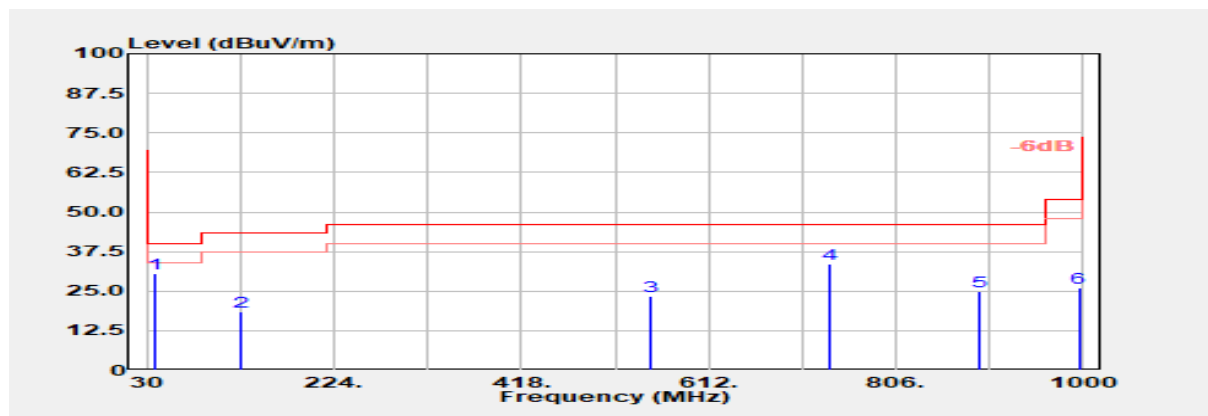
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Report Number :E2/2021/20046
Operation Mode :System 充電組
Test Frequency :System 充電組
Test Mode :System 充電組
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :21.9/64
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.327	Peak	41.95	-11.58	30.38	40.00	-9.62
126.378	Peak	35.18	-16.78	18.40	43.50	-25.10
550.753	Peak	32.31	-8.79	23.51	46.00	-22.49
737.292	Peak	41.01	-7.26	33.75	46.00	-12.25
892.740	Peak	30.79	-5.82	24.97	46.00	-21.03
995.337	Peak	31.04	-4.90	26.14	54.00	-27.86

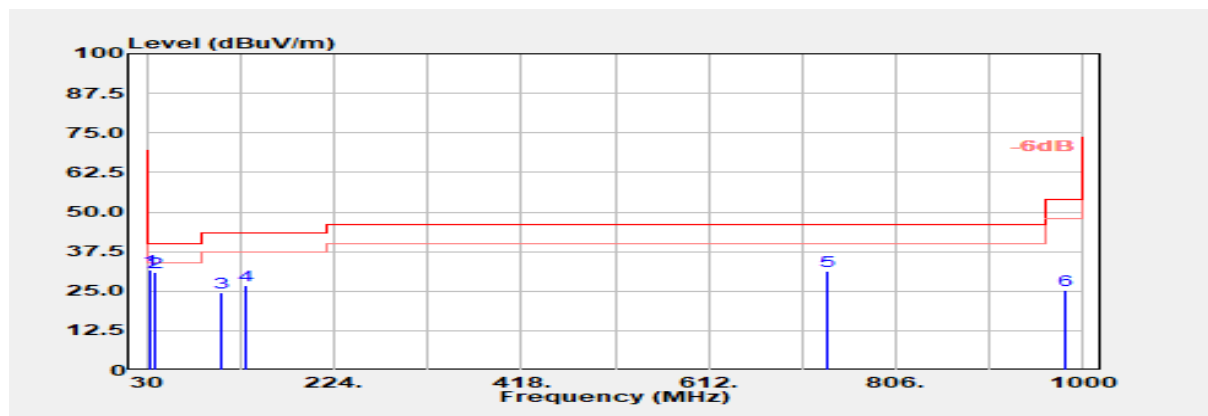
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Report Number :E2/2021/20046
Operation Mode :System 充電組
Test Frequency :System 充電組
Test Mode :System 充電組
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :21.9/64
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
34.663	Peak	40.66	-8.86	31.80	40.00	-8.20
39.327	Peak	42.49	-11.58	30.92	40.00	-9.08
106.170	Peak	43.24	-18.69	24.55	43.50	-18.95
132.596	Peak	43.96	-16.99	26.97	43.50	-16.53
735.737	Peak	38.56	-7.35	31.21	46.00	-14.79
981.346	Peak	30.16	-4.87	25.29	54.00	-28.71

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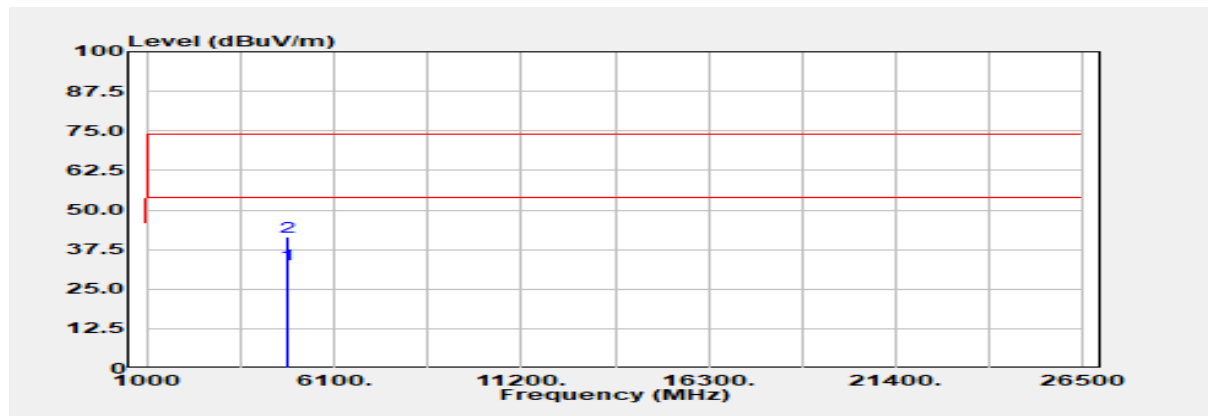
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8.5.2 發射模式 1GHz 以上測試

Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2403.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.8/65
Antenna Pol. :Vertical
Engineer :Ashton Chiu



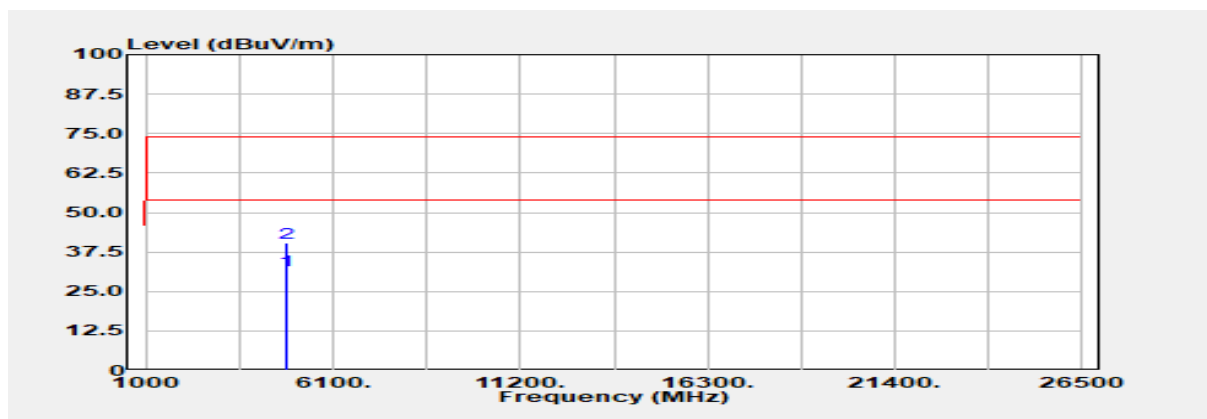
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4807.000	Average	21.93	10.94	32.87	54.00	-21.13
4807.000	Peak	30.55	10.94	41.48	74.00	-32.52

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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2403.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.8/65
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4807.000	Average	20.83	10.94	31.77	54.00	-22.23
4807.000	Peak	29.53	10.94	40.47	74.00	-33.53

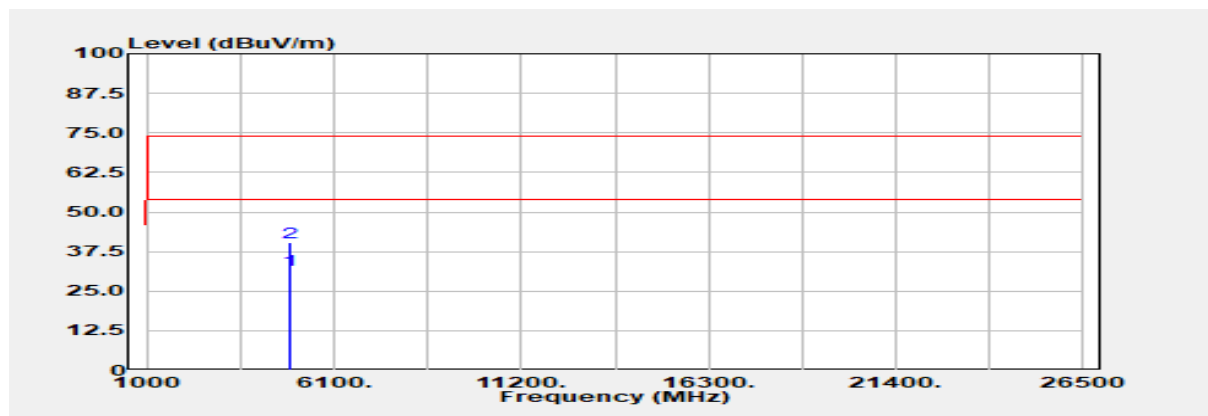
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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2441.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.8/65
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4883.000	Average	21.56	10.14	31.70	54.00	-22.30
4883.000	Peak	30.18	10.14	40.32	74.00	-33.68

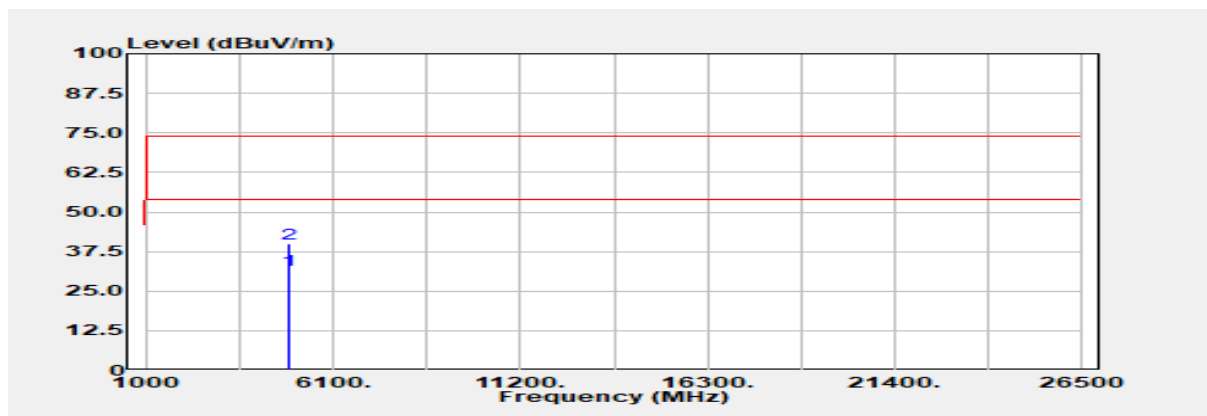
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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2441.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.8/65
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4883.000	Average	21.52	10.14	31.66	54.00	-22.34
4883.000	Peak	29.73	10.14	39.86	74.00	-34.14

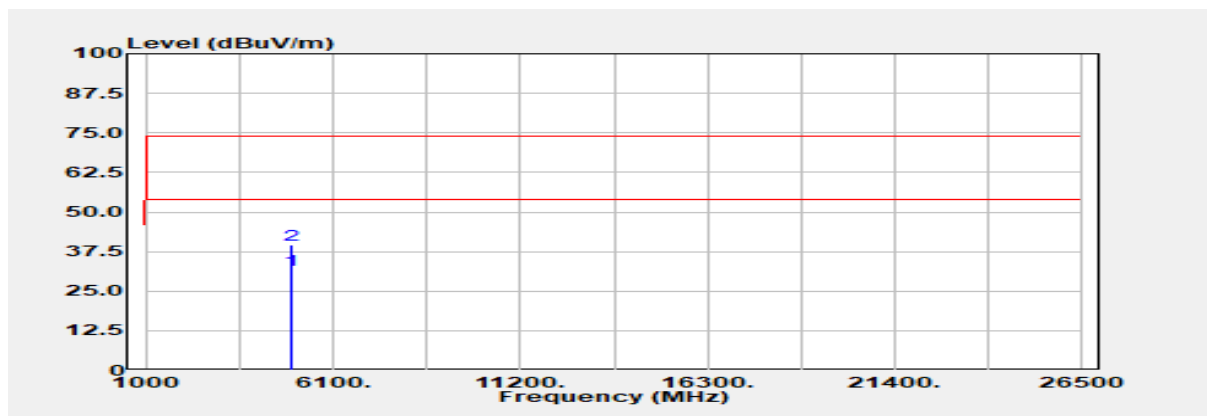
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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2477.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.8/65
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4955.000	Average	21.67	9.98	31.65	54.00	-22.35
4955.000	Peak	29.69	9.98	39.67	74.00	-34.33

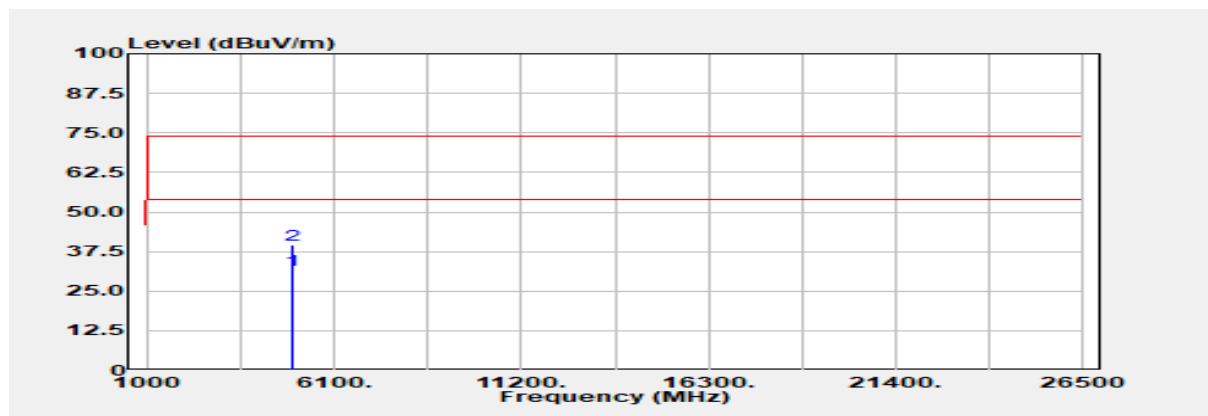
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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2477.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.8/65
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4955.000	Average	21.59	9.98	31.57	54.00	-22.43
4955.000	Peak	29.48	9.98	39.45	74.00	-34.55

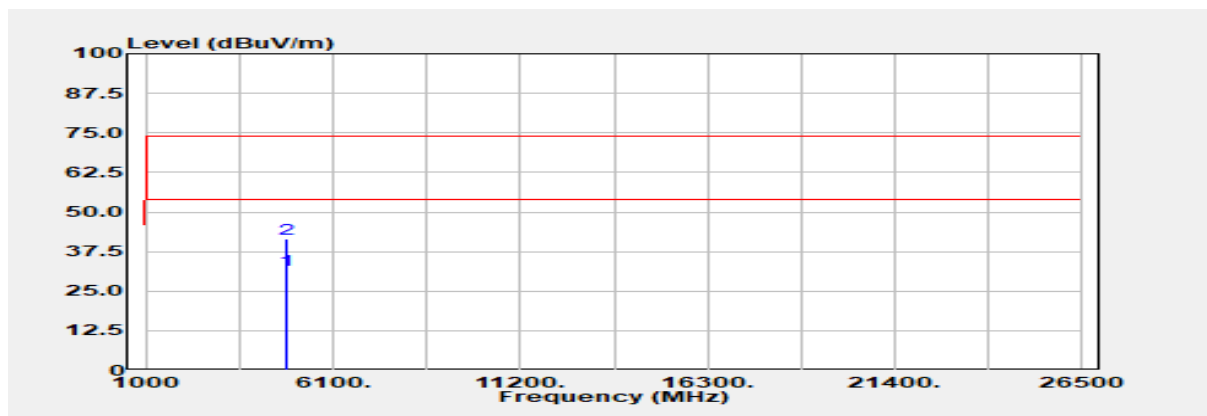
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Report Number :E2/2021/20046
Operation Mode :2.4G 10M
Test Frequency :2405.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.9/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4811.000	Average	20.81	10.95	31.76	54.00	-22.24
4811.000	Peak	30.42	10.95	41.37	74.00	-32.63

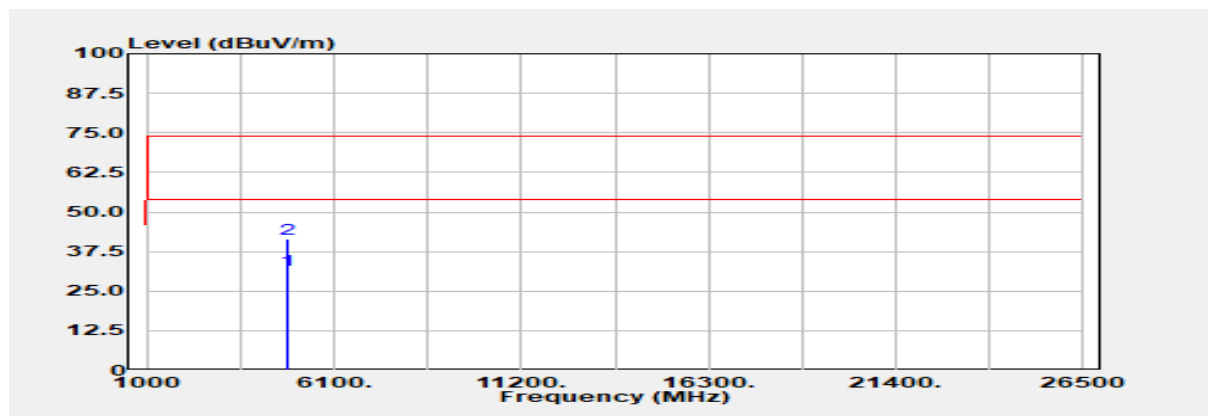
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Report Number :E2/2021/20046
Operation Mode :2.4G 10M
Test Frequency :2405.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.9/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4811.000	Average	20.93	10.95	31.88	54.00	-22.12
4811.000	Peak	30.47	10.95	41.43	74.00	-32.57

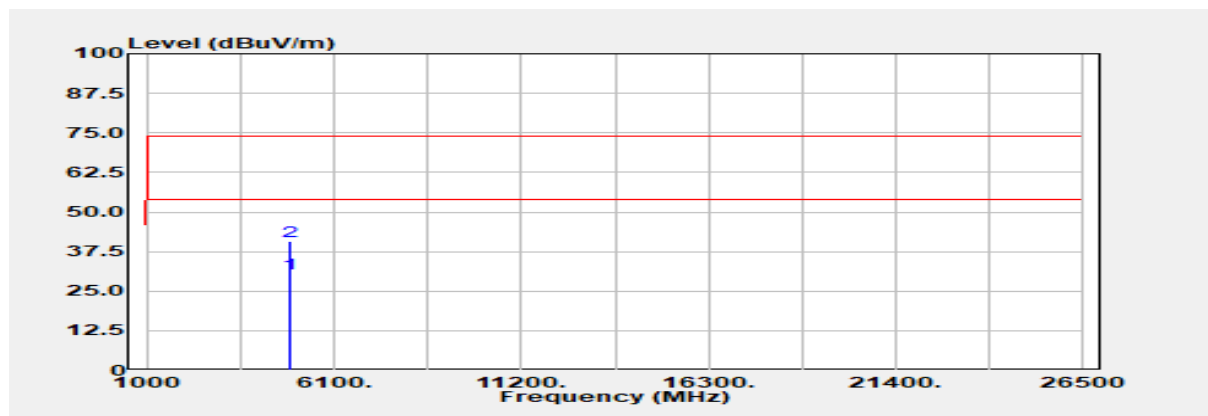
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Report Number :E2/2021/20046
Operation Mode :2.4G 10M
Test Frequency :2441.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.9/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4883.000	Average	20.57	10.14	30.71	54.00	-23.29
4883.000	Peak	30.47	10.14	40.61	74.00	-33.39

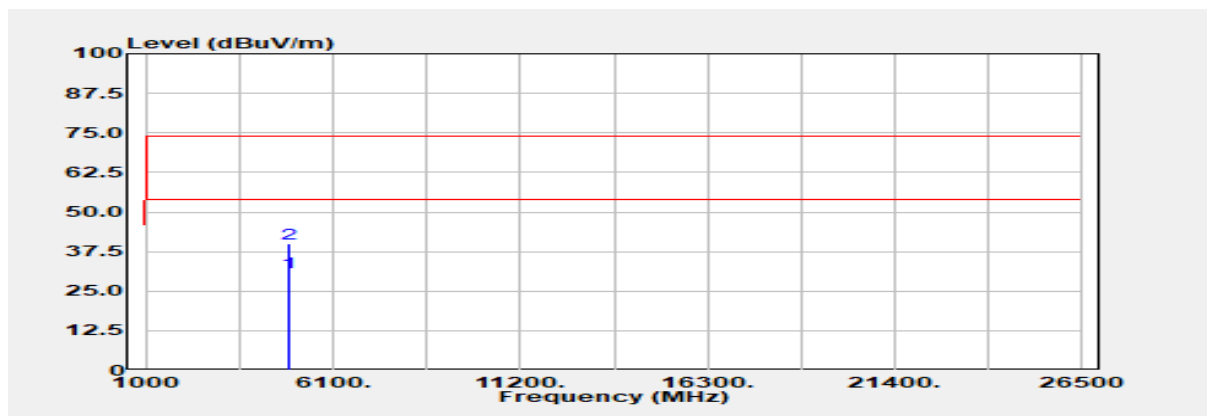
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Report Number :E2/2021/20046
Operation Mode :2.4G 10M
Test Frequency :2441.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.9/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4883.000	Average	20.79	10.14	30.93	54.00	-23.07
4883.000	Peak	30.04	10.14	40.18	74.00	-33.82

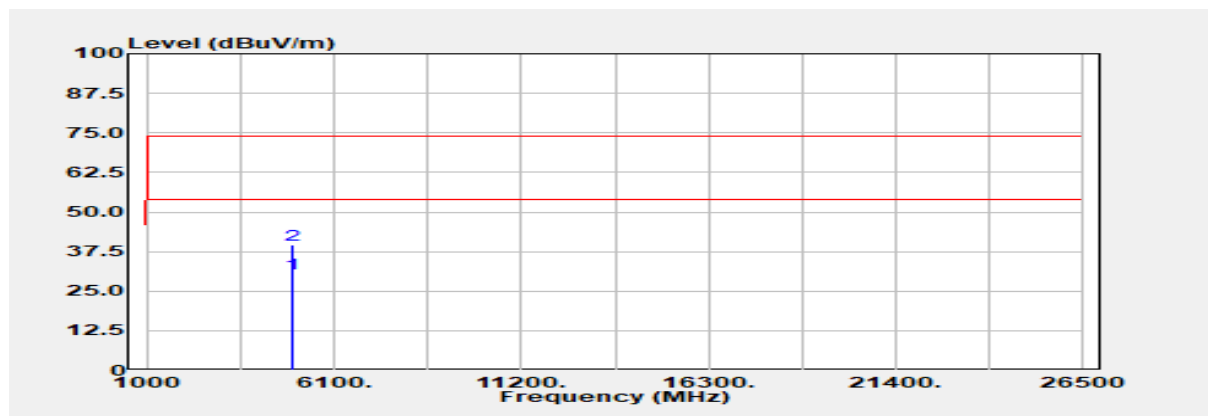
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Report Number :E2/2021/20046
Operation Mode :2.4G 10M
Test Frequency :2477.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.9/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4955.000	Average	20.62	9.98	30.60	54.00	-23.40
4955.000	Peak	29.72	9.98	39.70	74.00	-34.30

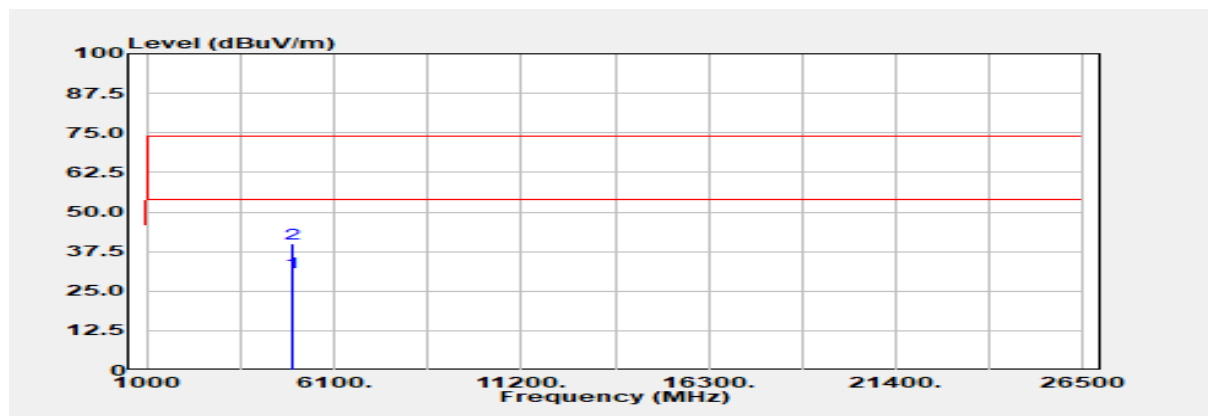
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Report Number :E2/2021/20046
Operation Mode :2.4G 10M
Test Frequency :2477.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :21.9/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



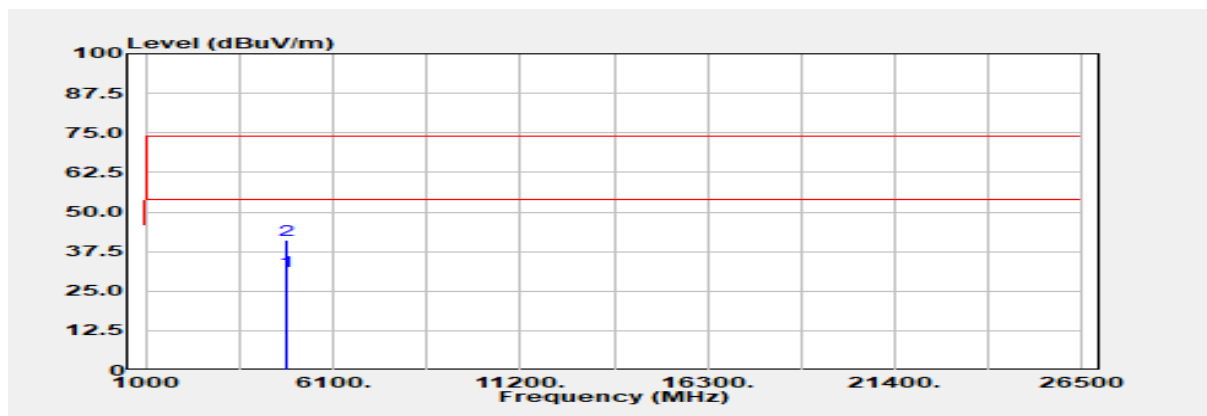
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4955.000	Average	20.82	9.98	30.80	54.00	-23.20
4955.000	Peak	29.90	9.98	39.87	74.00	-34.13

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Report Number :E2/2021/20046
Operation Mode :2.4G 20M
Test Frequency :2410.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.0/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4821.000	Average	20.90	10.51	31.41	54.00	-22.59
4821.000	Peak	30.65	10.51	41.16	74.00	-32.84

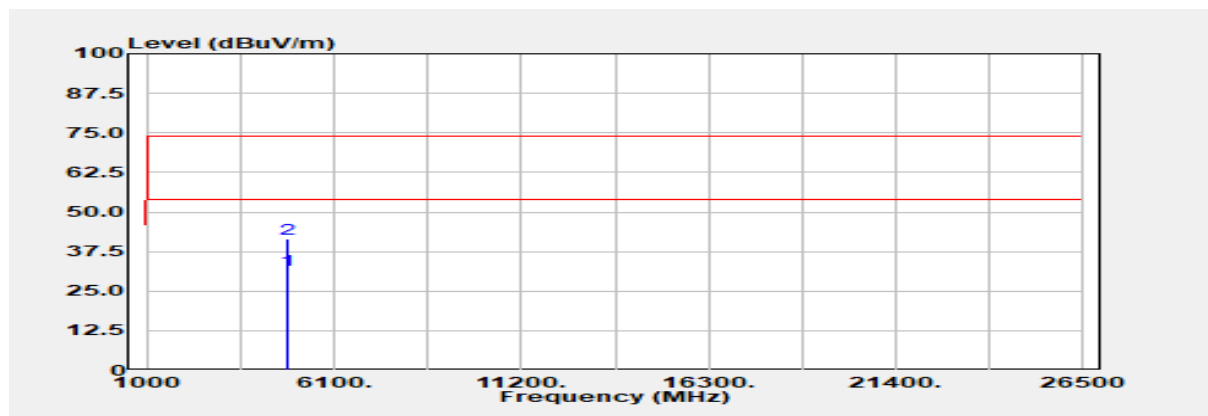
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Report Number :E2/2021/20046
Operation Mode :2.4G 20M
Test Frequency :2410.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.0/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4821.000	Average	21.21	10.51	31.72	54.00	-22.28
4821.000	Peak	31.13	10.51	41.64	74.00	-32.36

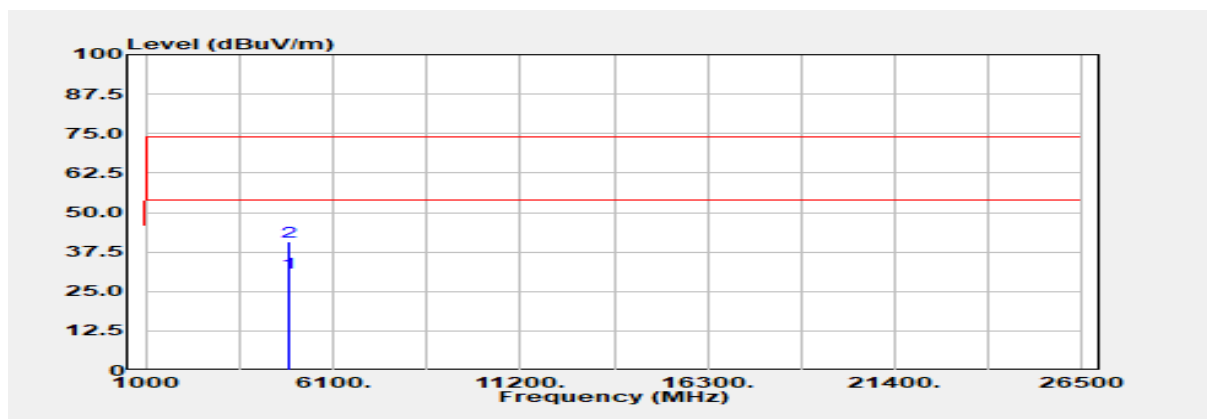
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Report Number :E2/2021/20046
Operation Mode :2.4G 20M
Test Frequency :2441.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.0/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4883.000	Average	20.85	10.14	30.99	54.00	-23.01
4883.000	Peak	30.59	10.14	40.73	74.00	-33.27

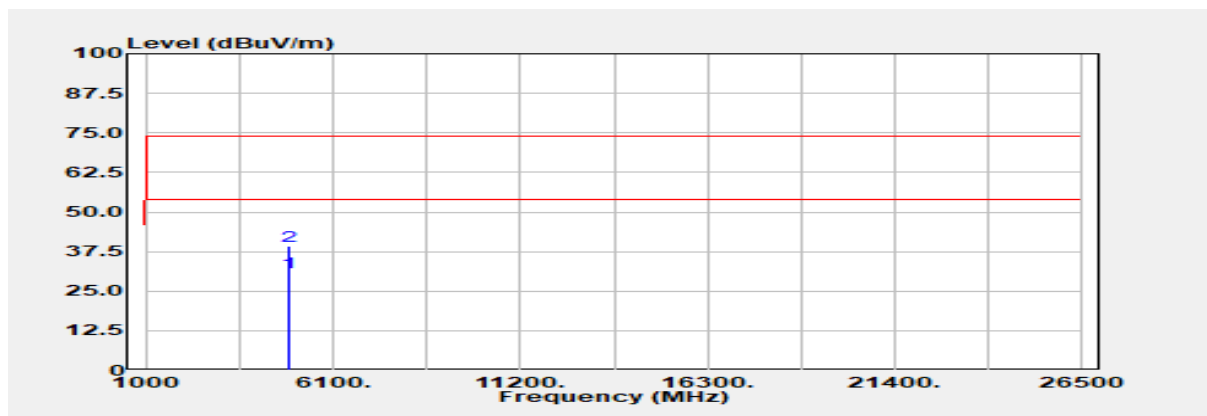
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Report Number :E2/2021/20046
Operation Mode :2.4G 20M
Test Frequency :2441.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.0/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4883.000	Average	20.74	10.14	30.88	54.00	-23.12
4883.000	Peak	29.09	10.14	39.23	74.00	-34.77

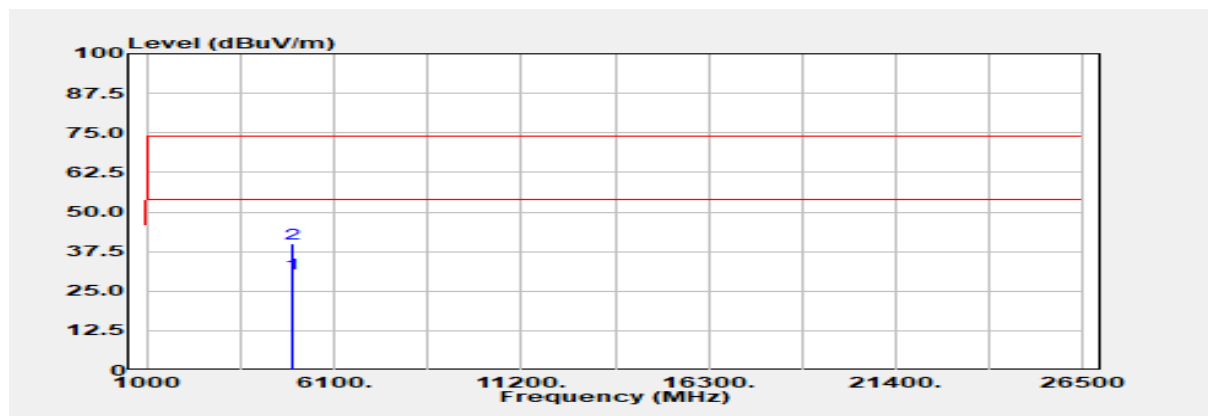
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Report Number :E2/2021/20046
Operation Mode :2.4G 20M
Test Frequency :2472.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.0/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4945.000	Average	20.68	10.00	30.68	54.00	-23.32
4945.000	Peak	29.86	10.00	39.86	74.00	-34.14

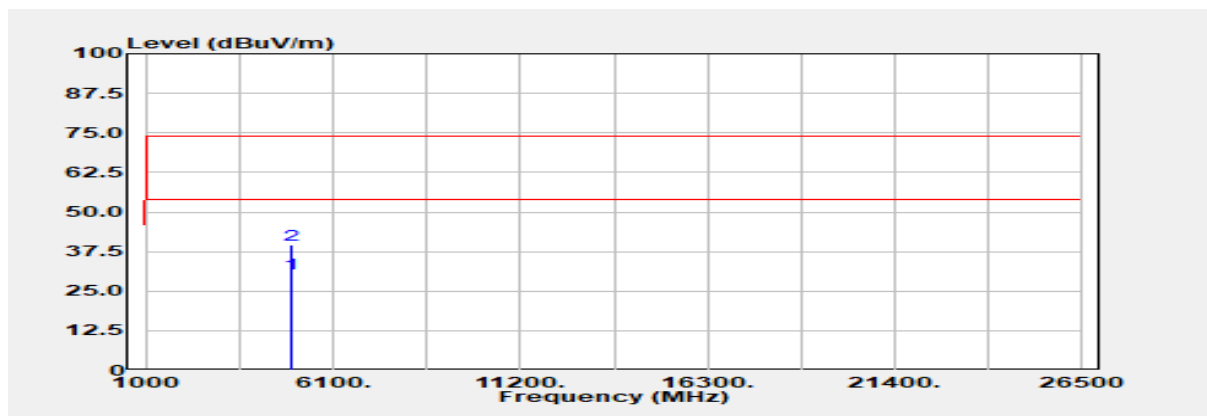
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Report Number :E2/2021/20046
Operation Mode :2.4G 20M
Test Frequency :2472.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.0/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4945.000	Average	20.58	10.00	30.58	54.00	-23.42
4945.000	Peak	29.52	10.00	39.52	74.00	-34.48

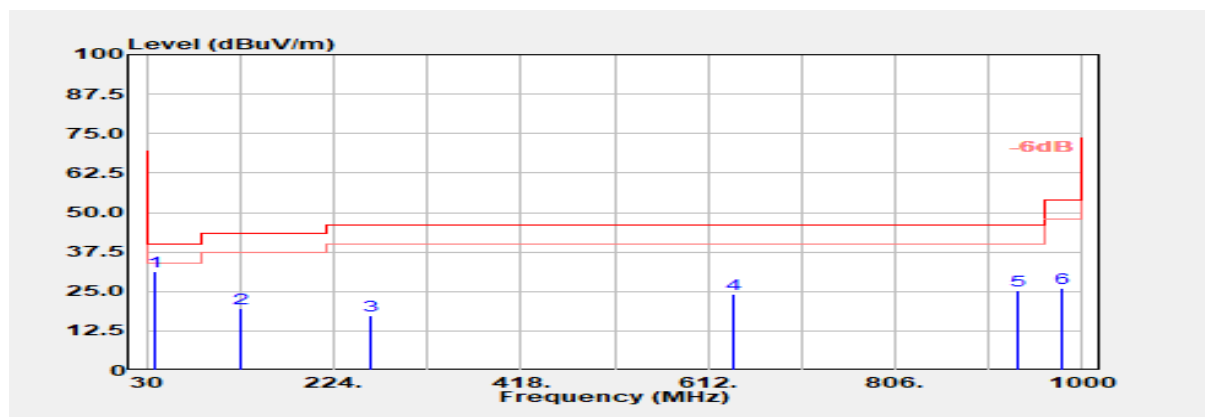
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8.5.3 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Report Number	:E2/2021/20046	Test Site	:966 Chamber C
Operation Mode	:2.4G 1.4M	Test Date	:2021-03-04
Test Frequency	:2441.5 MHz	Temp./Humi.	:19.1/69
Test Mode	:Rx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.327	Peak	43.07	-11.58	31.50	40.00	-8.50
126.378	Peak	36.45	-16.78	19.67	43.50	-23.83
261.619	Peak	32.50	-15.09	17.41	46.00	-28.59
639.359	Peak	32.21	-8.07	24.14	46.00	-21.86
933.157	Peak	31.41	-5.96	25.45	46.00	-20.55
979.792	Peak	30.73	-4.79	25.94	54.00	-28.06

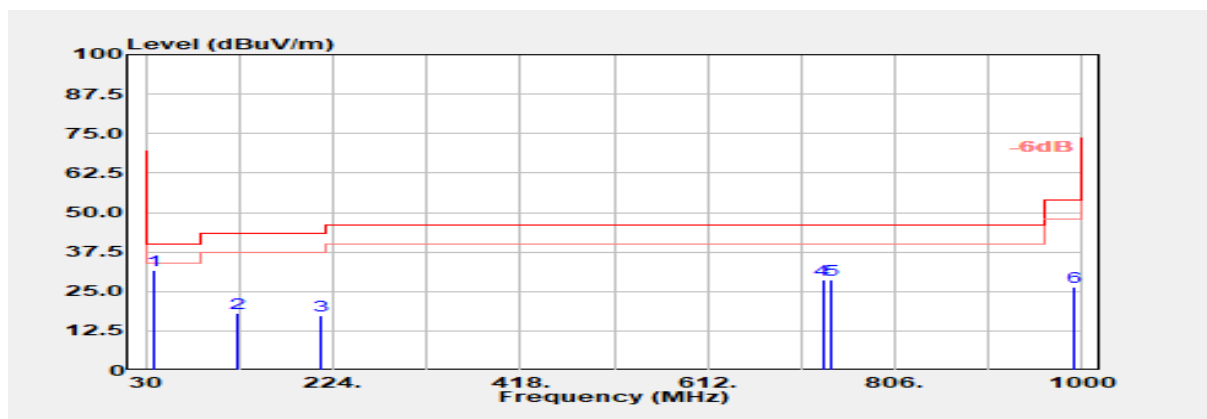
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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2441.5 MHz
Test Mode :Rx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-04
Temp./Humi. :19.1/69
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.327	Peak	43.21	-11.58	31.63	40.00	-8.37
124.824	Peak	35.01	-16.80	18.21	43.50	-25.29
211.875	Peak	36.93	-19.49	17.44	43.50	-26.06
731.074	Peak	36.38	-7.87	28.51	46.00	-17.49
740.401	Peak	36.04	-7.17	28.86	46.00	-17.14
992.228	Peak	31.36	-4.82	26.54	54.00	-27.46

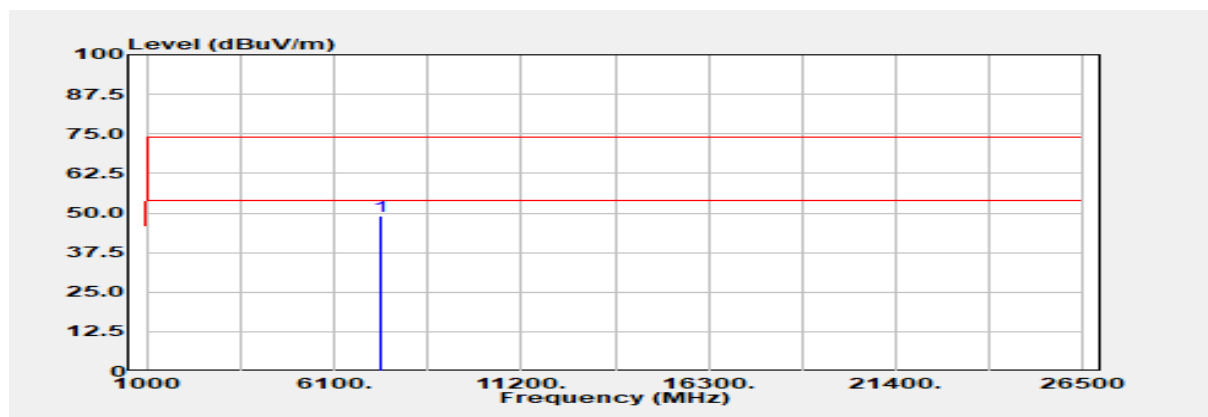
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8.5.4 接收機場強輻射之量測結果(1GHz 以上) (最差模式)

Report Number	:E2/2021/20046	Test Site	:966 Chamber C
Operation Mode	:2.4G 1.4M	Test Date	:2021-03-06
Test Frequency	:2441.5 MHz	Temp./Humi.	:23.3/66
Test Mode	:Rx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7360.577	Peak	31.15	18.03	49.18	74.00	-24.82

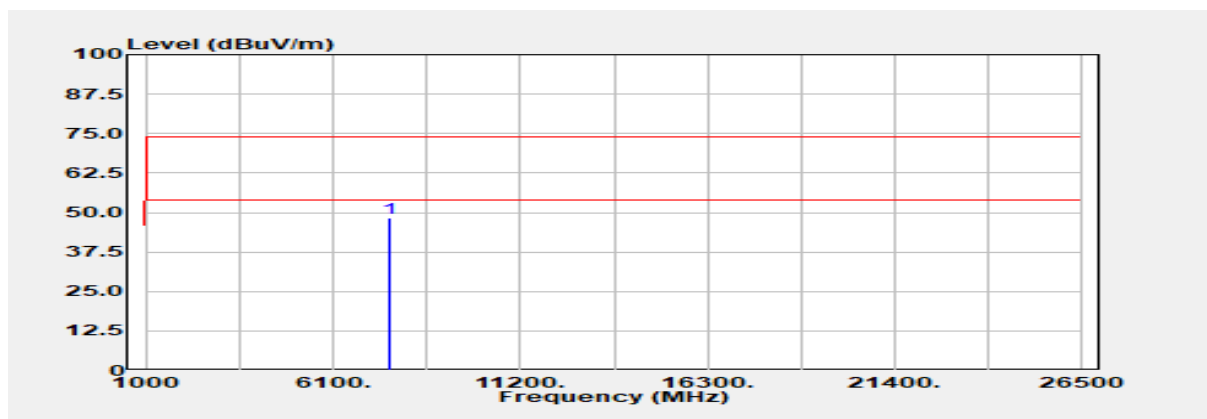
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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2441.5 MHz
Test Mode :Rx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-06
Temp./Humi. :23.3/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7652.244	Peak	31.33	16.98	48.31	74.00	-25.69

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9 天線增益之要求

9.1 適用標準

依據NCC低功率射頻電機技術規範4.10.1.3 (1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

依據NCC低功率射頻電機技術規範4.10.1.3 (2)之規定，操作於5725-5850MHz 者，其發射天線之方向性增益超過 6dBi，無須降低峰值輸出功率。

依據NCC低功率射頻電機技術規範4.10.1.3 (2)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

9.2 天線增益

此裝置使用天線如下，詳細規格請參考附件天線規格書。

天線型式	Brand	Model No.	發射頻帶(MHz)	天線增益(dBi)
PCB	DJI	WM240 DRONE ANT L	2400-2483	3.5
PCB	DJI	WM240 DRONE ANT R	2400-2483	3.5

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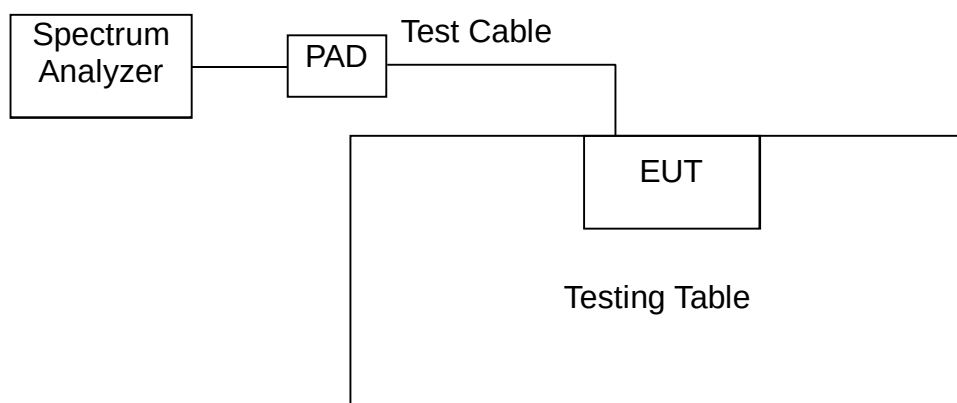
10 發射頻寬之要求

10.1 適用標準

對使用數位調變技術之低功率發射機，依據 NCC 低功率射頻器材技術規範 4.10.1.6(2) (A) 之規定，6dB 之頻寬至少應有 500kHz。

10.2 測試配置

圖 4: 發射頻寬之測試配置



10.3 量測結果

(1.4M)				(10M)			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2403.5	1113.00	> 500	PASS	2405.5	9060.00	> 500	PASS
2441.5	1107.00	> 500	PASS	2441.5	8985.00	> 500	PASS
2477.5	1090.00	> 500	PASS	2477.5	8992.00	> 500	PASS

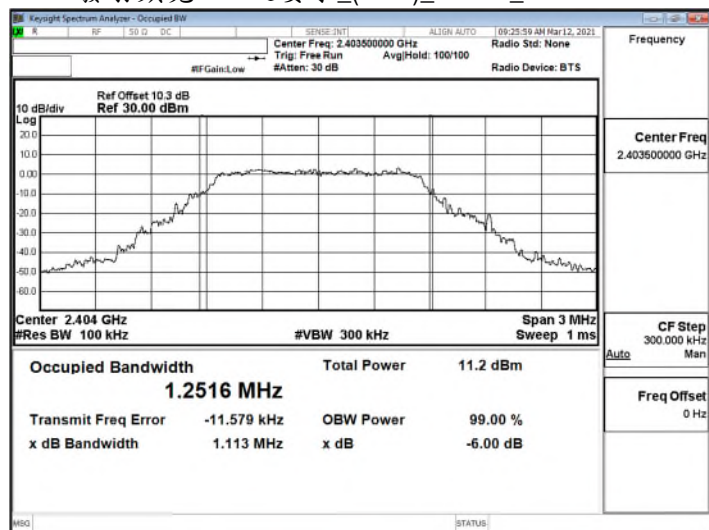
(20M)			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2410.5	18050.00	> 500	PASS
2441.5	17950.00	> 500	PASS
2472.5	18050.00	> 500	PASS

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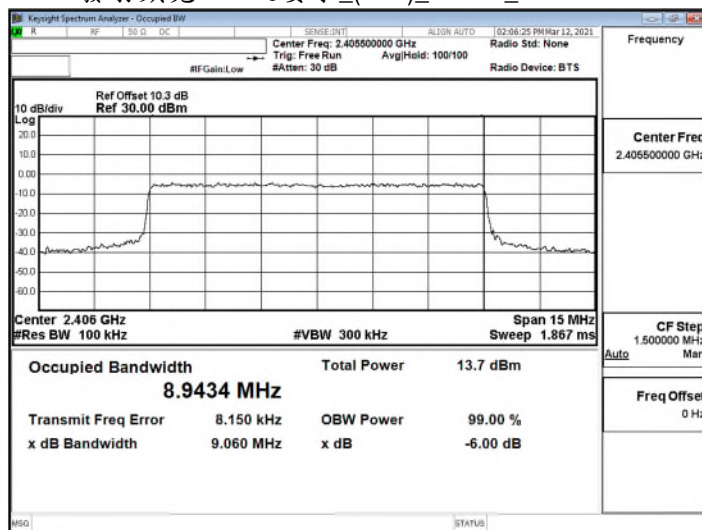
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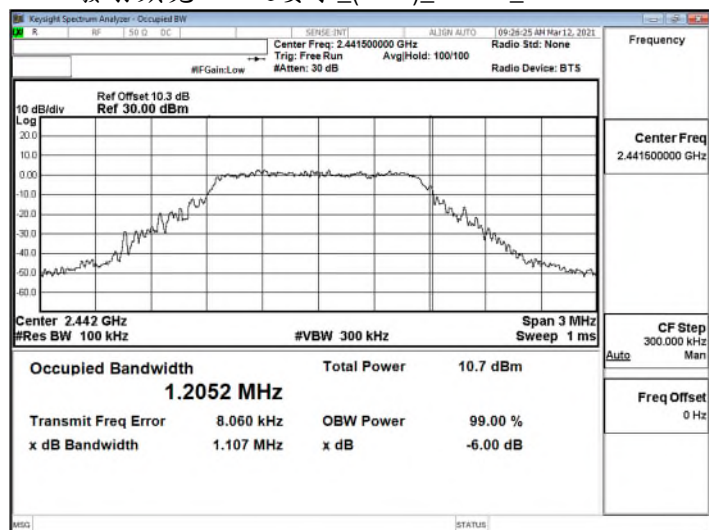
發射頻寬 6dB 之要求_(1.4M)_Chain0_2403.5MHz



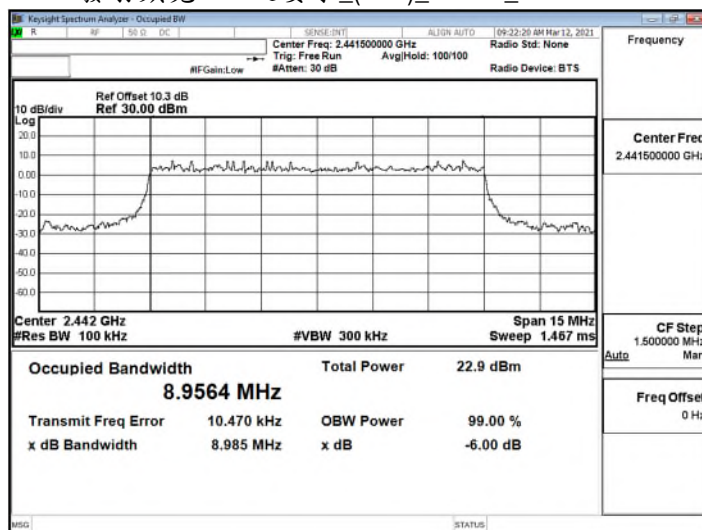
發射頻寬 6dB 之要求_(10M)_Chain0_2405.5MHz



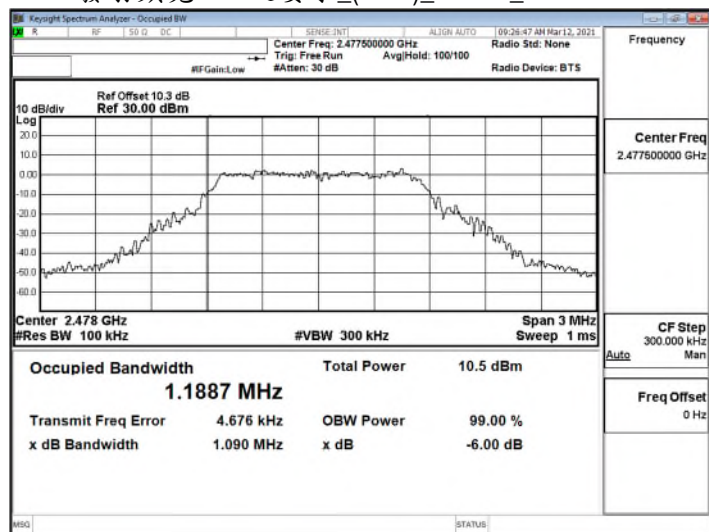
發射頻寬 6dB 之要求_(1.4M)_Chain0_2441.5MHz



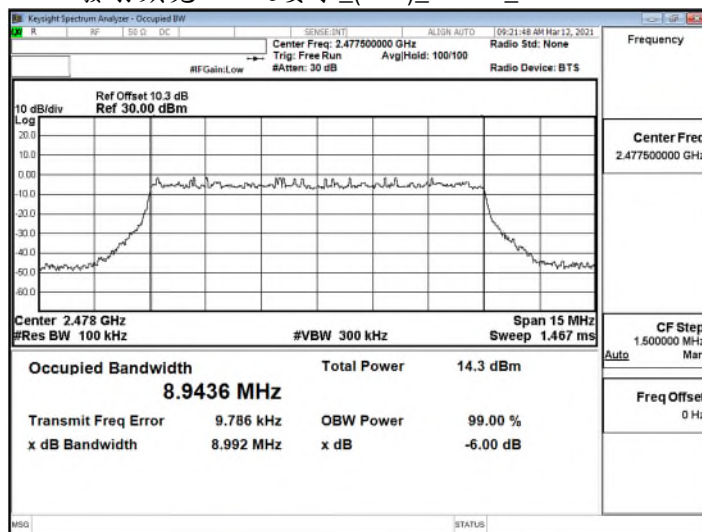
發射頻寬 6dB 之要求_(10M)_Chain0_2441.5MHz



發射頻寬 6dB 之要求_(1.4M)_Chain0_2477.5MHz



發射頻寬 6dB 之要求_(10M)_Chain0_2477.5MHz

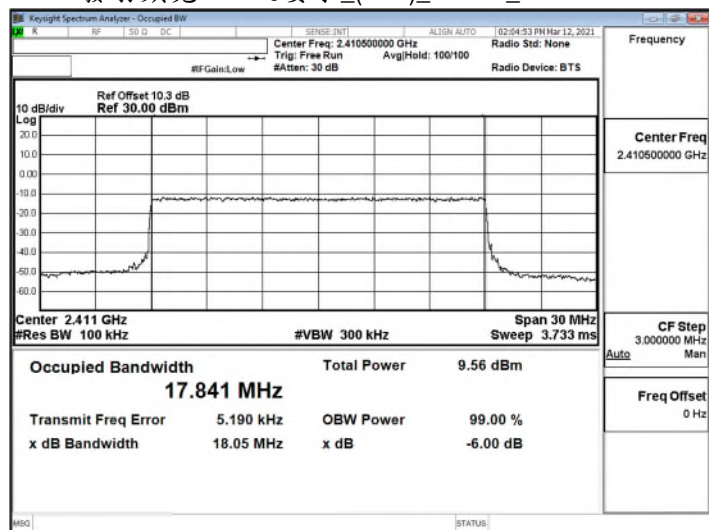


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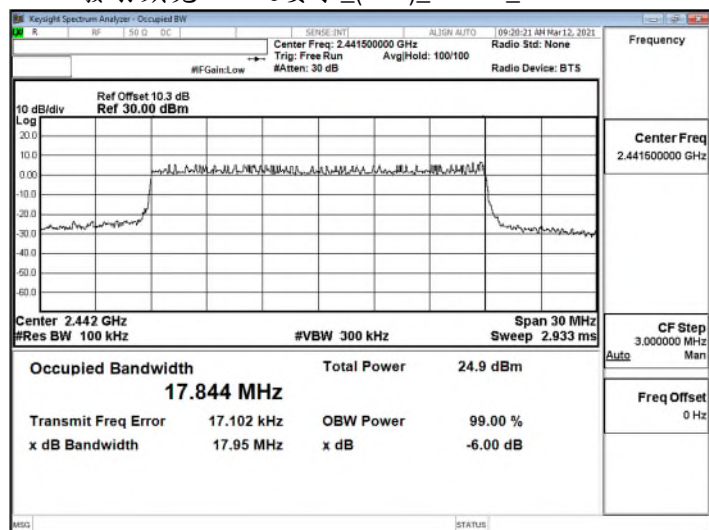
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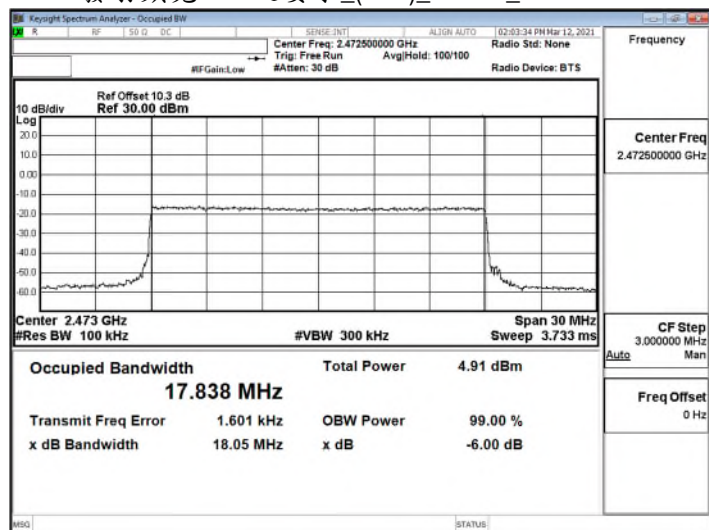
發射頻寬 6dB 之要求_(20M)_Chain0_2410.5MHz



發射頻寬 6dB 之要求_(20M)_Chain0_2441.5MHz



發射頻寬 6dB 之要求_(20M)_Chain0_2472.5MHz



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11 輸出峰值功率之量測

11.1 適用標準

依據 NCC 低功率射頻器材技術規範 4.10.1.2(1) (A)(C)之規定，操作於 2400-2483.5MHz 與 5725-5850MHz 之所有數位調變技術系統：1 Watt(含)以下。

依據NCC低功率射頻器材技術規範4.10.1.3之規定，用於非固定式點對點操作時，若其發射天線之方向性增益超過6dBi，應依所超過之dB數等量降低峰值輸出功率。如用於固定式點對點操作時，應符合下列情現之一：

依據NCC低功率射頻器材技術規範4.10.1.3 (1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

依據NCC低功率射頻器材技術規範4.10.1.3 (2)之規定，操作於5725-5850MHz 者，其發射天線之方向性增益超過 6dBi，無須降低峰值輸出功率。

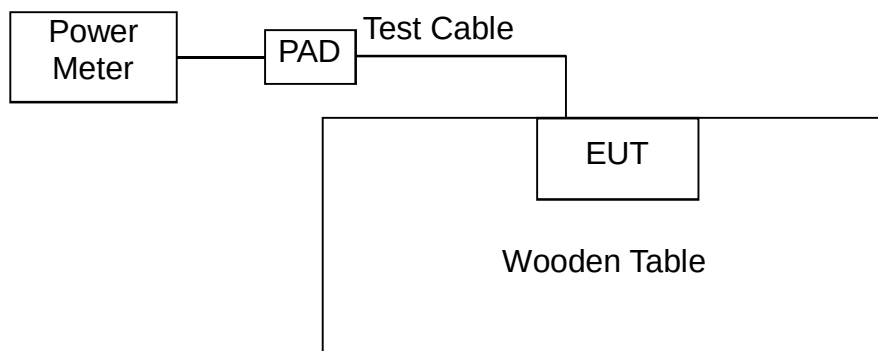
依據NCC低功率射頻器材技術規範4.10.1.3 (3)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

11.2 載波頻率工作週期之量測

在進行功率測量前，應檢查每種模式的工作週期以補償工作週期校正因子 (Duty Factor)。

11.3 測試配置



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11.4 量測方式

11.4.1 載波頻率工作週期儀器設定

Span = Zero, RBW = 8MHz, VBW = 8MHz, Detector = Peak

11.4.2 輸出功率量測

1. 將 EUT 置於發射模式。
2. 移除天線，使用 low loss cable 連接 EUT 的 antenna port 及 power meter。
3. 紀錄最大功率讀值。

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11.5 量測結果

11.5.1 載波頻率工作週期

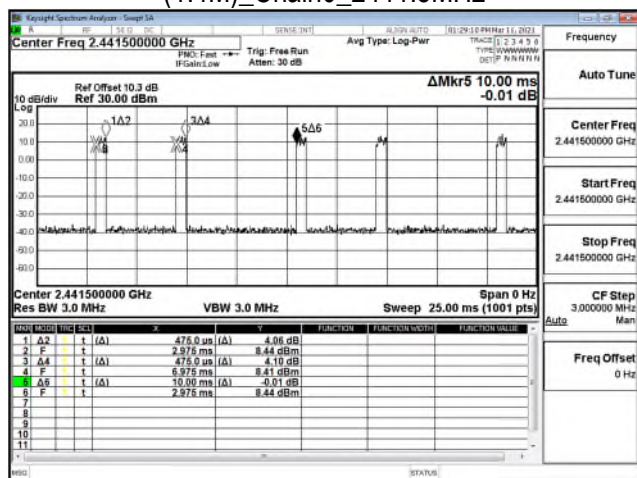
Duty Cycle				
	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
(1.4M)	9.50	10.22	1.05	2.00
(10M)	79.95	0.97	0.13	1.00
(20M)	80.00	0.97	0.13	1.00

Duty Cycle Factor: $10 * \log(1/0.095) = 10.22$ Duty Cycle Factor: $10 * \log(1/0.7995) = 0.97$ Duty Cycle Factor: $10 * \log(1/0.8) = 0.97$

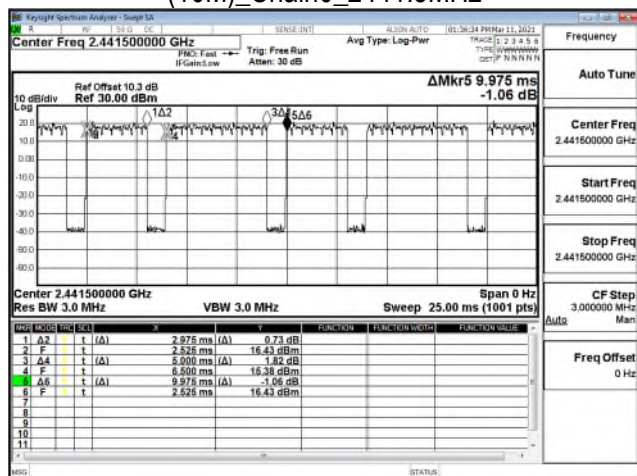
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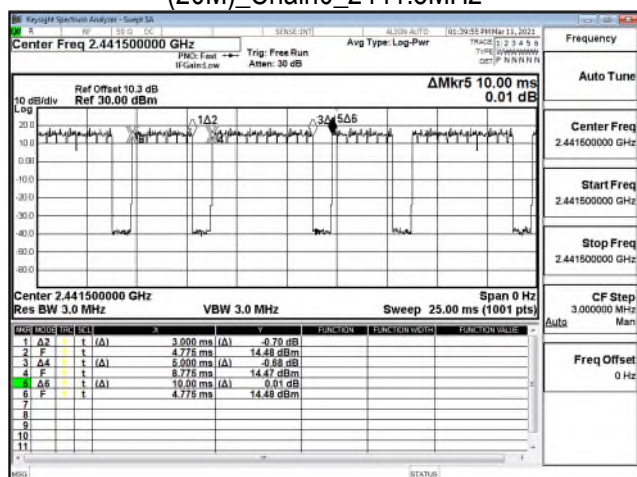
(1.4M)_Chain0_2441.5MHz



(10M)_Chain0_2441.5MHz



(20M)_Chain0_2441.5MHz



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11.5.2 輸出功率

(1.4M) Ch0						
CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	RESULT
1	2403.5	0	12.12	16.29	30.00	PASS
20	2441.5	0	12.43	17.50	30.00	PASS
38	2477.5	0	12.57	18.07	30.00	PASS

(1.4M) Ch1						
CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	RESULT
1	2403.5	0	13.08	20.32	30.00	PASS
20	2441.5	0	13.05	20.18	30.00	PASS
38	2477.5	0	13.02	20.04	30.00	PASS

(10M) Ch0						
CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	RESULT
1	2405.5	0	25.51	355.63	30.00	PASS
37	2441.5	0	25.12	325.09	30.00	PASS
73	2477.5	-8	15.98	39.63	30.00	PASS

(10M) Ch1						
CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	RESULT
1	2405.5	0	25.78	378.44	30.00	PASS
37	2441.5	0	25.68	369.83	30.00	PASS
73	2477.5	-8	16.50	44.67	30.00	PASS

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(20M) Ch0						
CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	RESULT
1	2410.5	-4	20.57	114.02	30.00	PASS
32	2441.5	0	25.43	349.14	30.00	PASS
63	2472.5	-8	15.46	35.16	30.00	PASS

(20M) Ch1						
CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	RESULT
1	2410.5	-4	21.04	127.06	30.00	PASS
32	2441.5	0	25.84	383.71	30.00	PASS
63	2472.5	-8	15.84	38.37	30.00	PASS

**Note: Measured by Power Meter.*

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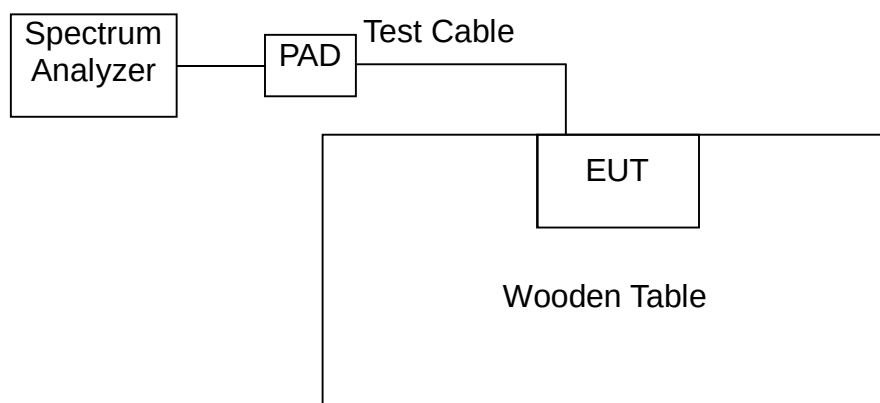
12 開放頻帶邊緣 100KHZ 頻寬內之限制

12.1 適用標準

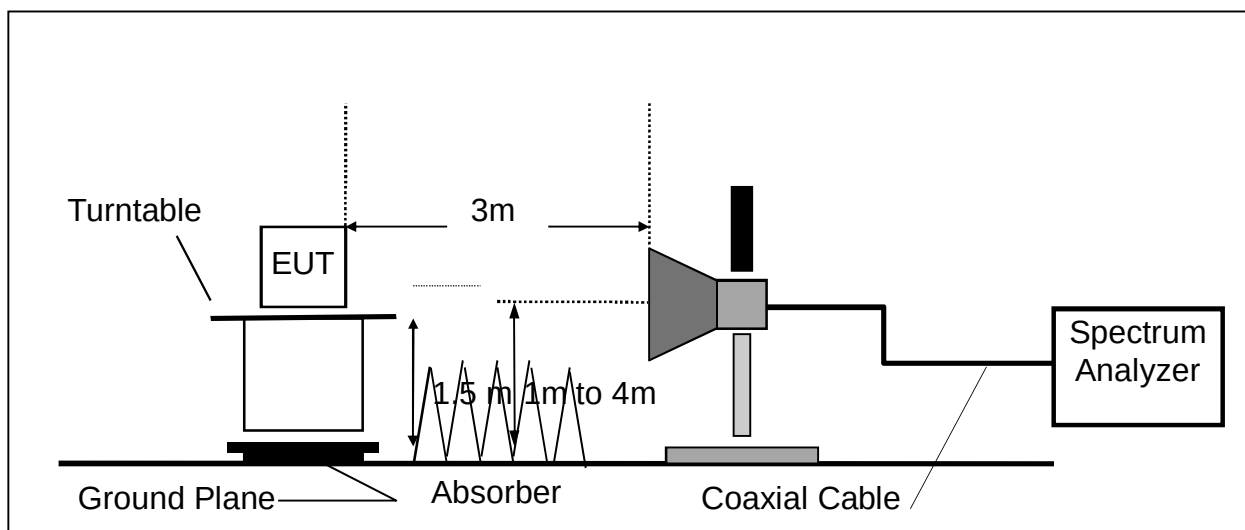
依據 NCC 低功率射頻器材技術規範 4.10.1.5 之規定，使用頻帶範圍外之任意 100kHz 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100kHz 內的射頻功率，須衰減 20 分貝 (dB)，以射頻傳導或輻射方式測量。此外，落於第 3.5 節禁用頻段之輻射發射，應符合第 3.6 節之規定。

12.2 開放頻帶邊緣之測試配置

(a) 傳導量測配置圖：



(b) 輻射量測配置圖：



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12.3 開放頻帶邊緣之量測結果

發射限制測試值 CH Low (下邊緣頻帶): 在 2400.00MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

發射限制測試值 CH High(上邊緣頻帶): 在 2483.50MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

NOTE:

$Actual\ FS(dB\mu V/m) = SPA.\ Reading\ level(dB\mu V) + Factor(dB)$

$Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

頻帶外發射傳導限制值

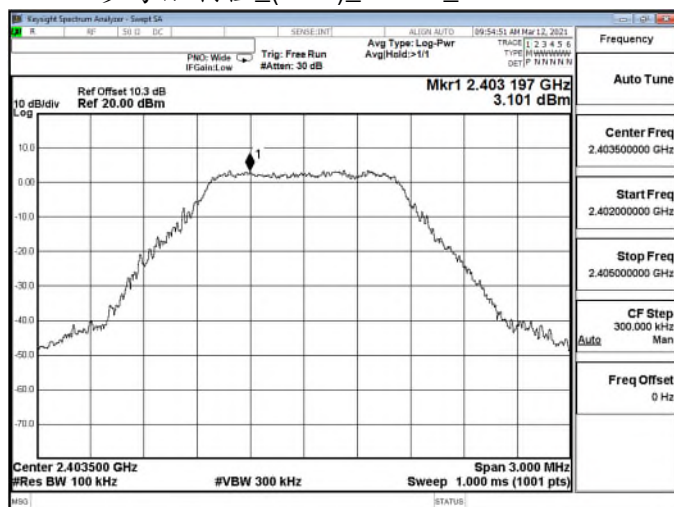
Reference Level of Limit (1.4M)			Reference Level of Limit (10M)		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2403.5	3.10	-16.90	2405.5	7.94	-12.06
2441.5	3.17	-16.83	2441.5	7.99	-12.01
2477.5	3.06	-16.94	2477.5	-0.62	-20.62

Reference Level of Limit (20M)		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2410.5	0.28	-19.72
2441.5	5.79	-14.21
2472.5	-2.97	-22.97

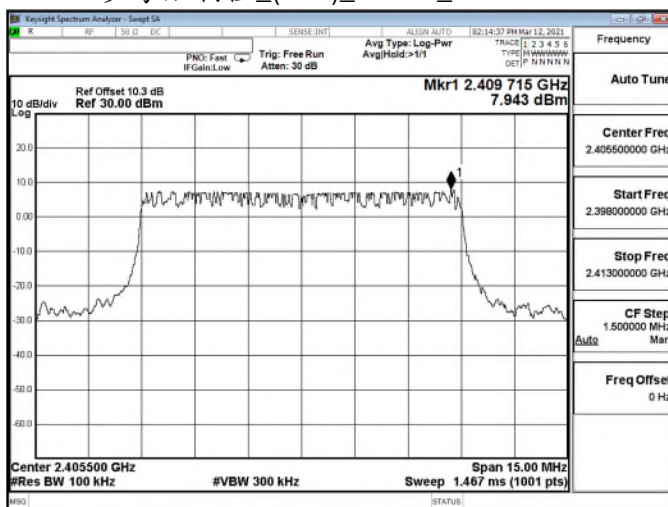
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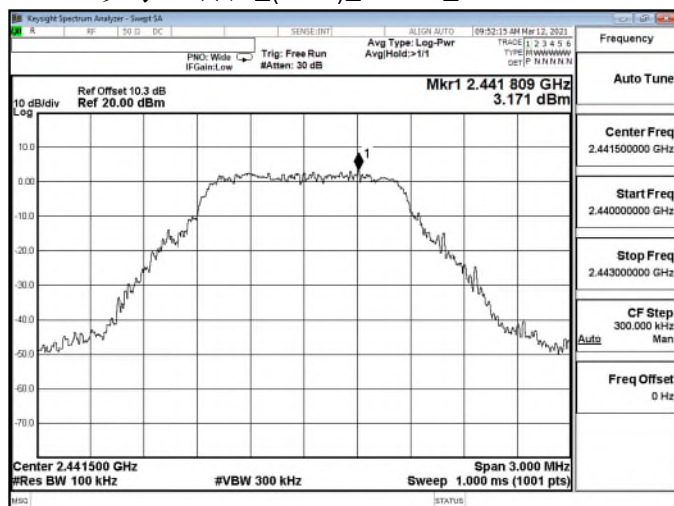
參考限制值_(1.4M)_Chain0_2403.5MHz



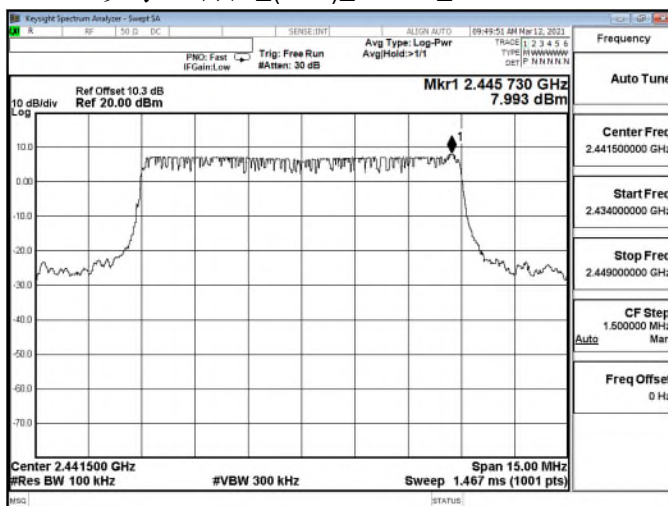
參考限制值_(10M)_Chain0_2405.5MHz



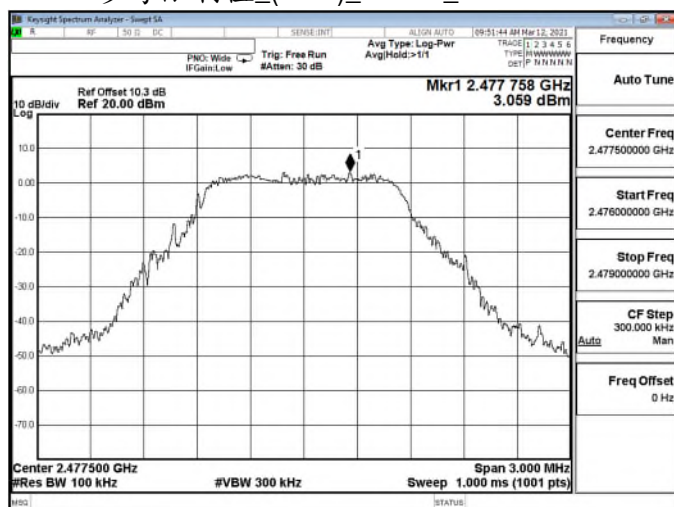
參考限制值_(1.4M)_Chain0_2441.5MHz



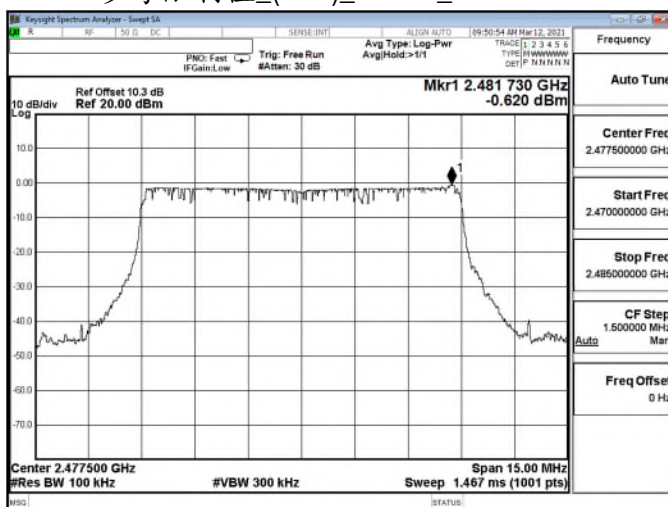
參考限制值_(10M)_Chain0_2441.5MHz



參考限制值_(1.4M)_Chain0_2477.5MHz



參考限制值_(10M)_Chain0_2477.5MHz

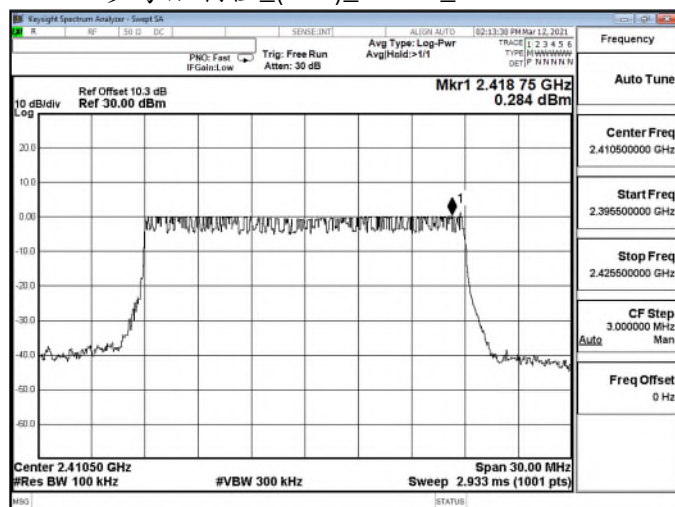


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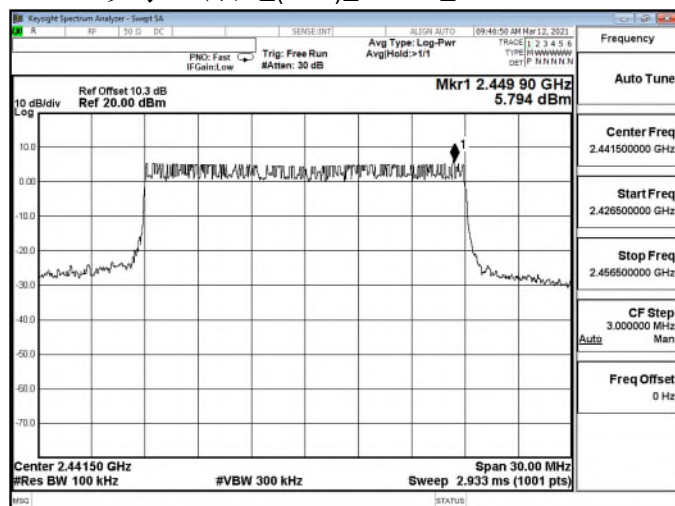
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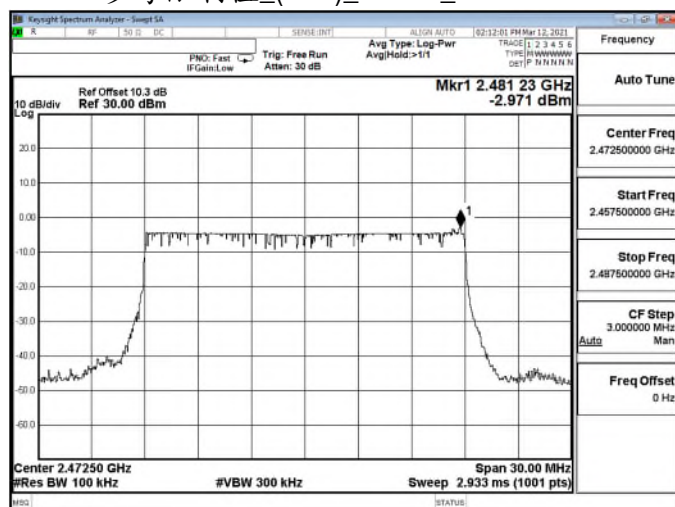
參考限制值_(20M)_Chain0_2410.5MHz



參考限制值_(20M)_Chain0_2441.5MHz



參考限制值_(20M)_Chain0_2472.5MHz

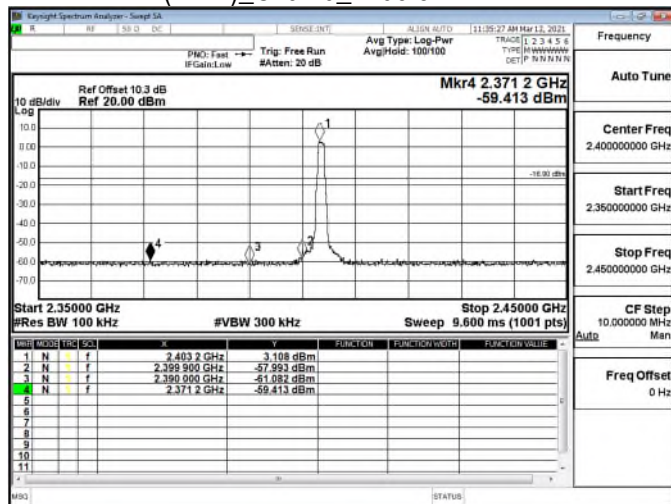


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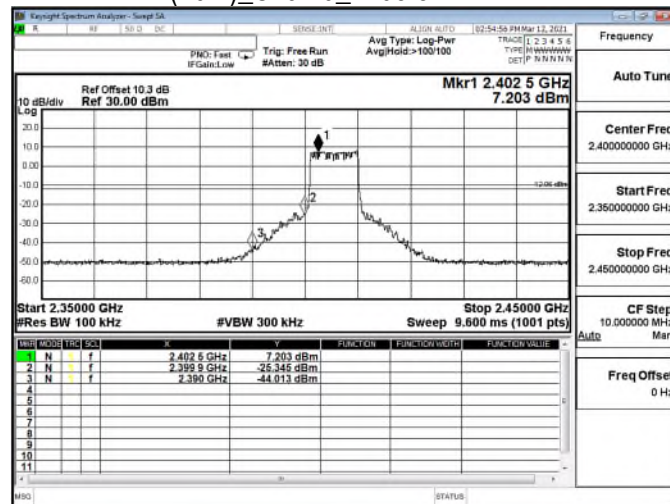
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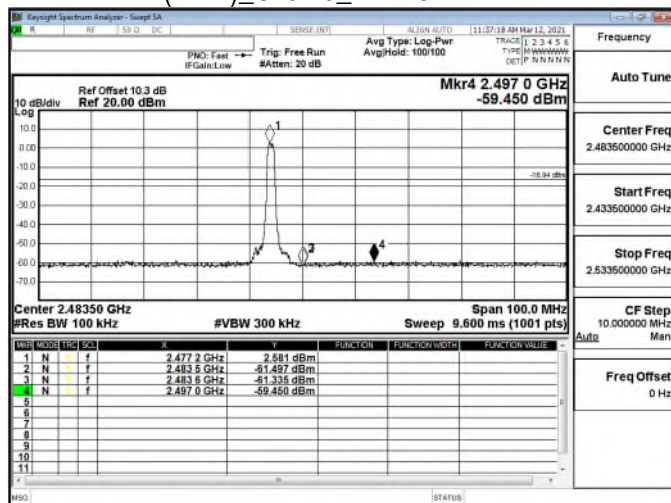
開放頻帶邊緣 100KHz 頻寬內之限制
(1.4M)_Chain0_2403.5MHz



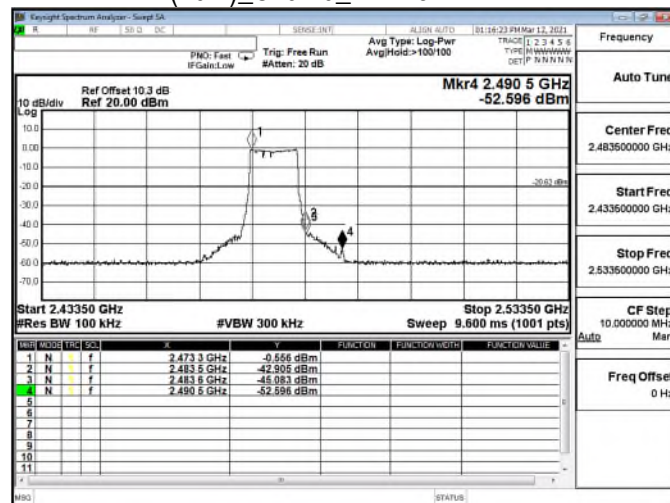
開放頻帶邊緣 100KHz 頻寬內之限制
(10M)_Chain0_2405.5MHz



開放頻帶邊緣 100KHz 頻寬內之限制
(1.4M)_Chain0_2477.5MHz



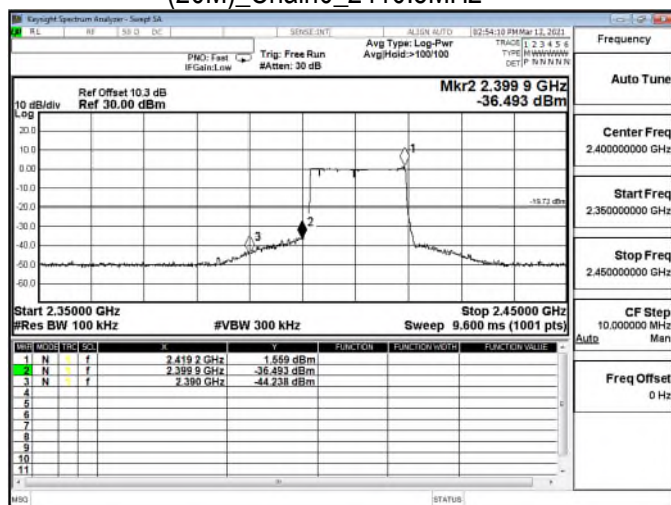
開放頻帶邊緣 100KHz 頻寬內之限制
(10M)_Chain0_2477.5MHz



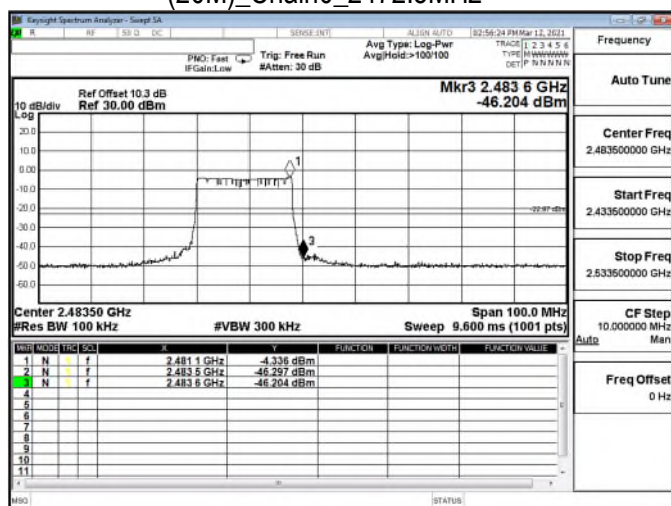
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開放頻帶邊緣 100KHz 頻寬內之限制 (20M)_Chain0_2410.5MHz



開放頻帶邊緣 100KHz 頻寬內之限制 (20M)_Chain0_2472.5MHz

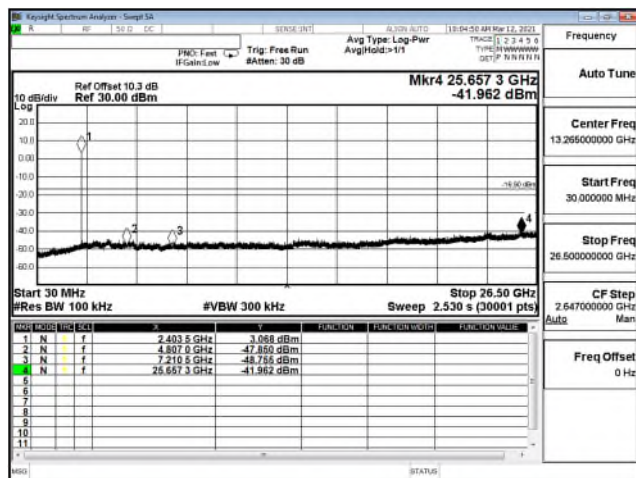


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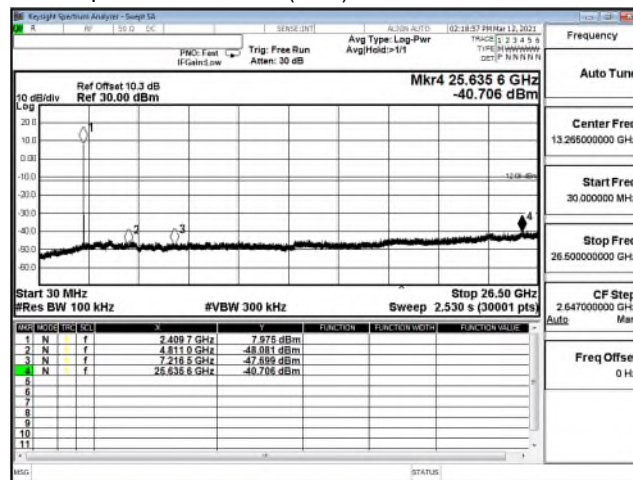
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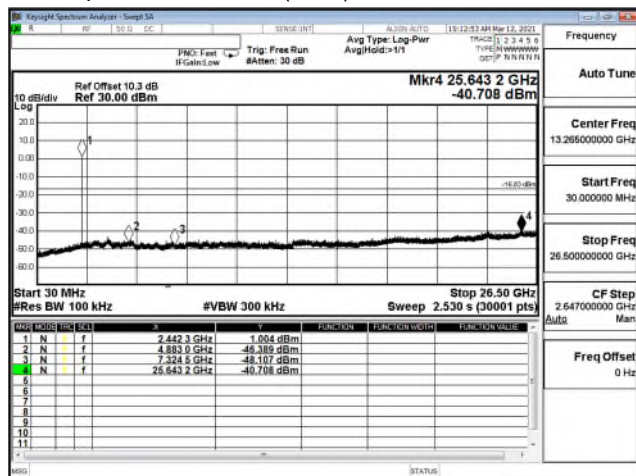
Spurious Emission_(1.4M)_Chain0_2403.5MHz



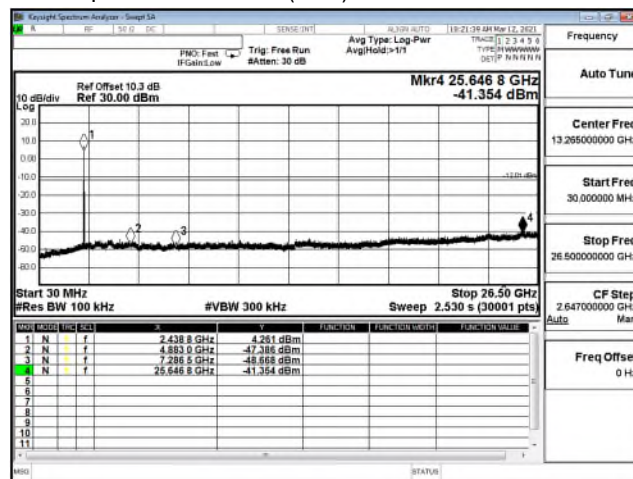
Spurious Emission_(10M)_Chain0_2405.5MHz



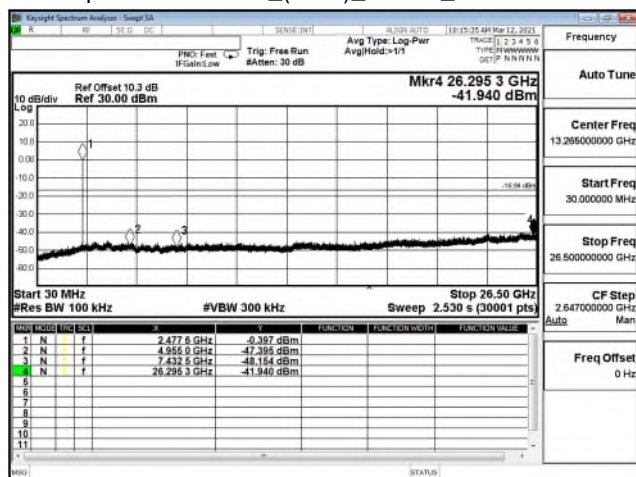
Spurious Emission_(1.4M)_Chain0_2441.5MHz



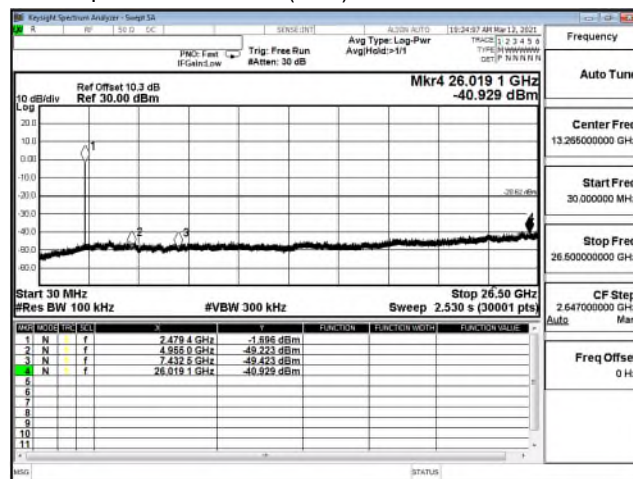
Spurious Emission_(10M)_Chain0_2441.5MHz



Spurious Emission_(1.4M)_Chain0_2477.5MHz



Spurious Emission_(10M)_Chain0_2477.5MHz



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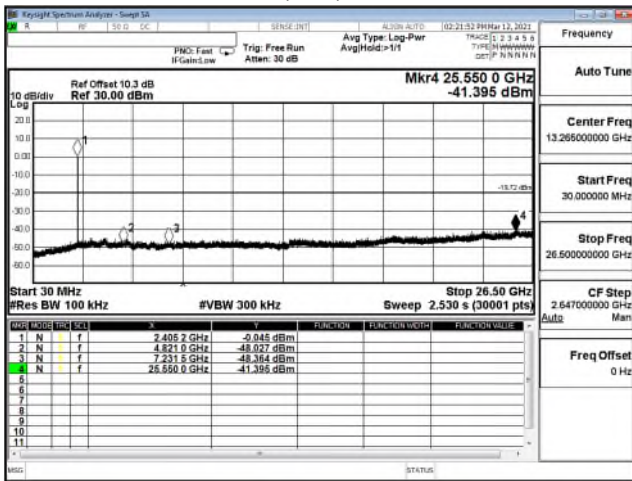
SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/ 新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488

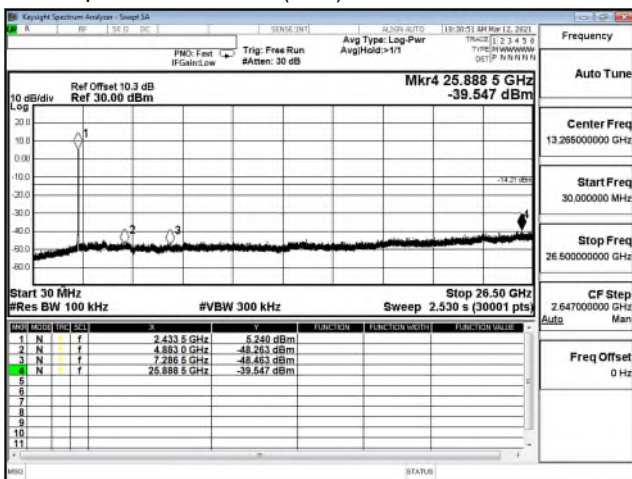
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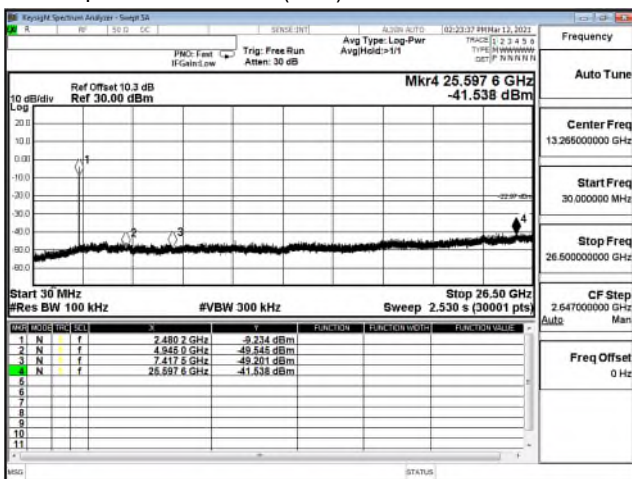
Spurious Emission_(20M)_Chain0_2410.5MHz



Spurious Emission_(20M)_Chain0_2441.5MHz



Spurious Emission_(20M)_Chain0_2472.5MHz



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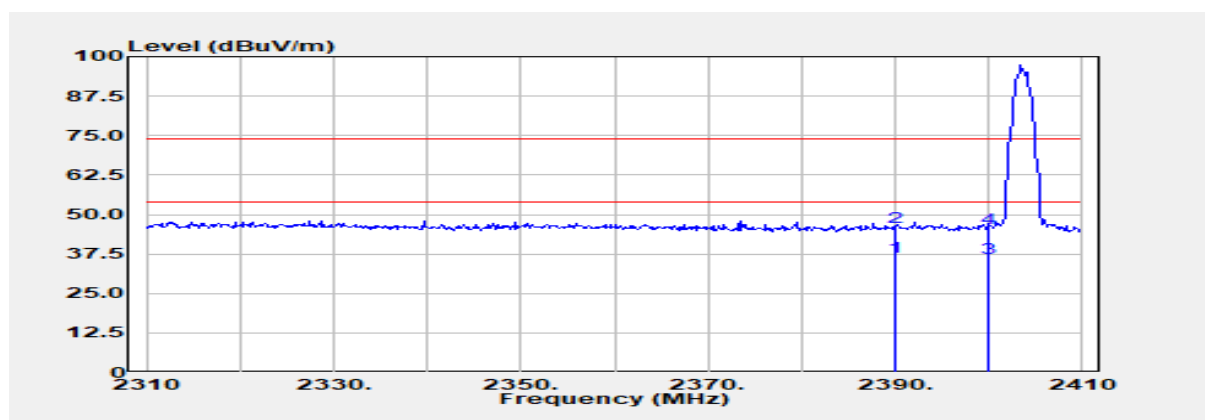
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12.3.1 禁用頻帶輻射量測值

Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2403.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.4/67
Antenna Pol. :Vertical
Engineer :Ashton Chiu



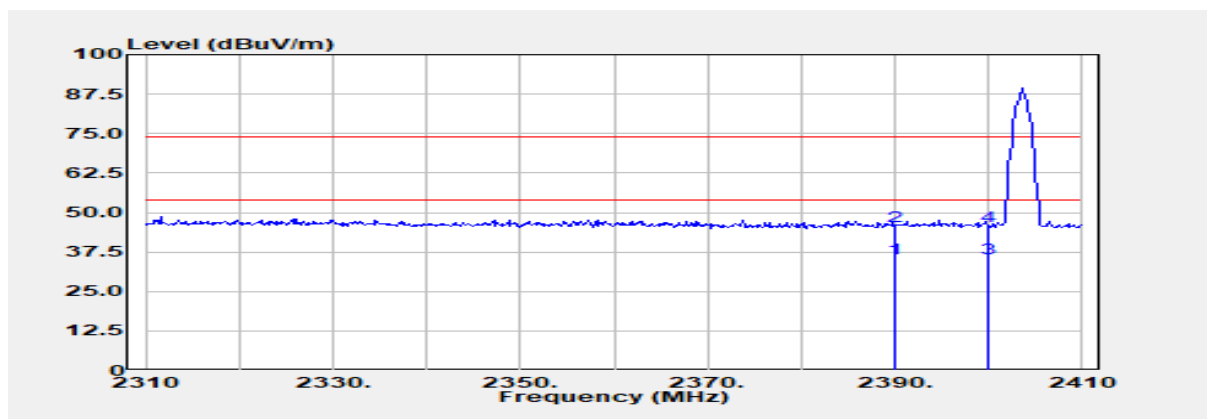
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.000	Average	31.26	5.18	36.44	54.00	-17.56
2390.000	Peak	40.91	5.18	46.09	74.00	-27.91
2400.000	Average	31.32	4.90	36.22	54.00	-17.78
2400.000	Peak	40.70	4.90	45.60	74.00	-28.40

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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2403.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.4/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



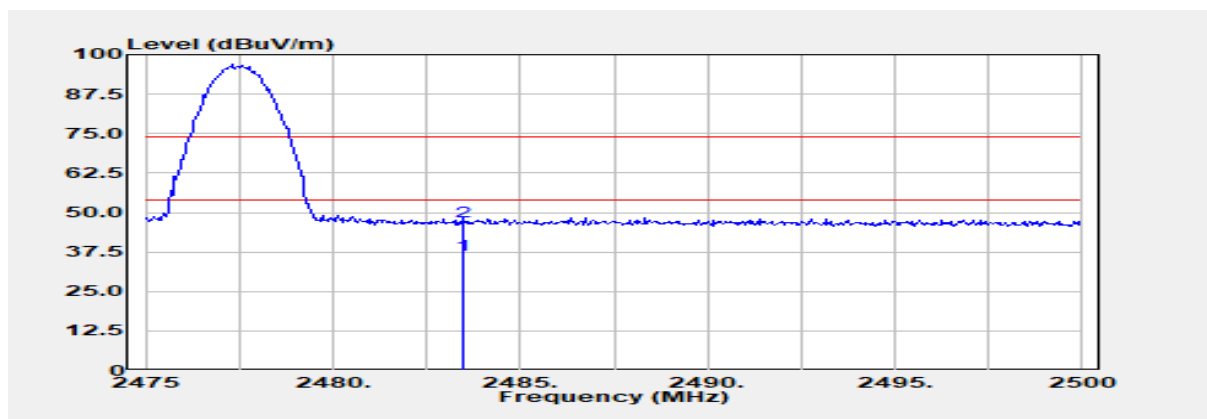
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.000	Average	30.42	5.18	35.60	54.00	-18.40
2390.000	Peak	40.45	5.18	45.63	74.00	-28.37
2400.000	Average	30.44	4.90	35.34	54.00	-18.66
2400.000	Peak	40.78	4.90	45.68	74.00	-28.32

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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2477.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.4/67
Antenna Pol. :Vertical
Engineer :Ashton Chiu



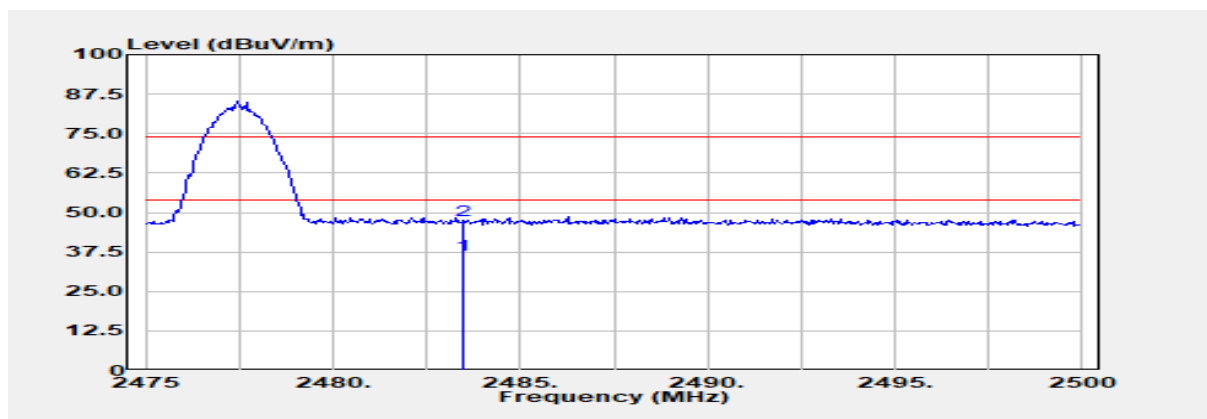
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	32.42	4.04	36.46	54.00	-17.54
2483.500	Peak	43.26	4.04	47.30	74.00	-26.70

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Report Number :E2/2021/20046
Operation Mode :2.4G 1.4M
Test Frequency :2477.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.4/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



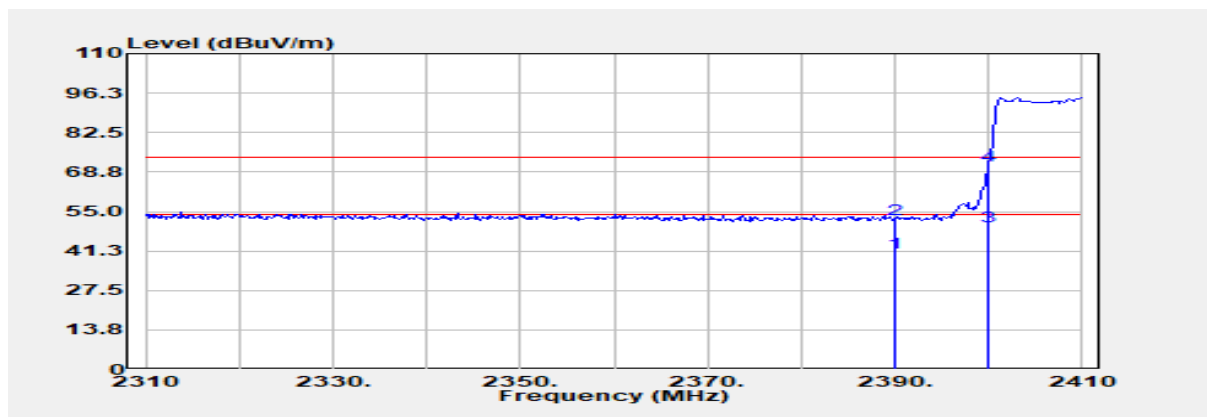
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	32.43	4.04	36.47	54.00	-17.53
2483.500	Peak	43.45	4.04	47.48	74.00	-26.52

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Report Number :E2/2021/20046
Operation Mode :2.4G 10M
Test Frequency :2405.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.4/67
Antenna Pol. :Vertical
Engineer :Ashton Chiu



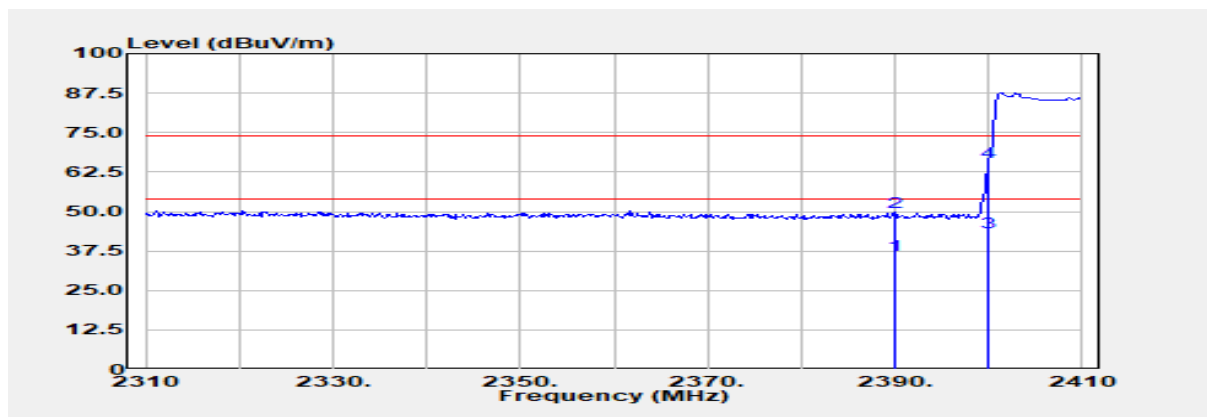
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.000	Average	35.39	5.18	40.57	54.00	-13.43
2390.000	Peak	47.28	5.18	52.47	74.00	-21.53
2400.000	Average	44.93	4.90	49.83	54.00	-4.17
2400.000	Peak	66.22	4.90	71.12	74.00	-2.88

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Report Number :E2/2021/20046
Operation Mode :2.4G 10M
Test Frequency :2405.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.4/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



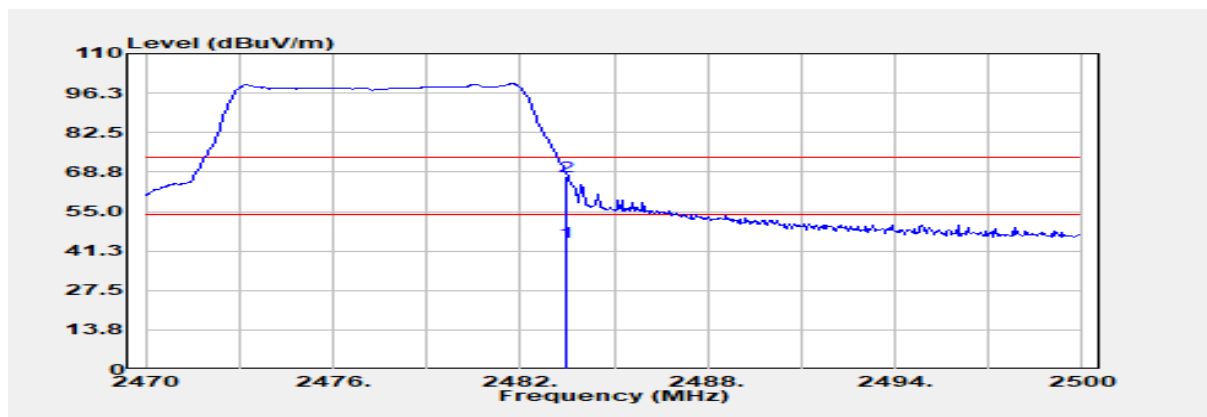
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.000	Average	31.05	5.18	36.23	54.00	-17.77
2390.000	Peak	44.53	5.18	49.71	74.00	-24.29
2400.000	Average	38.41	4.90	43.31	54.00	-10.69
2400.000	Peak	60.65	4.90	65.56	74.00	-8.44

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Report Number :E2/2021/20046
Operation Mode :2.4G 10M
Test Frequency :2477.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.4/67
Antenna Pol. :Vertical
Engineer :Ashton Chiu



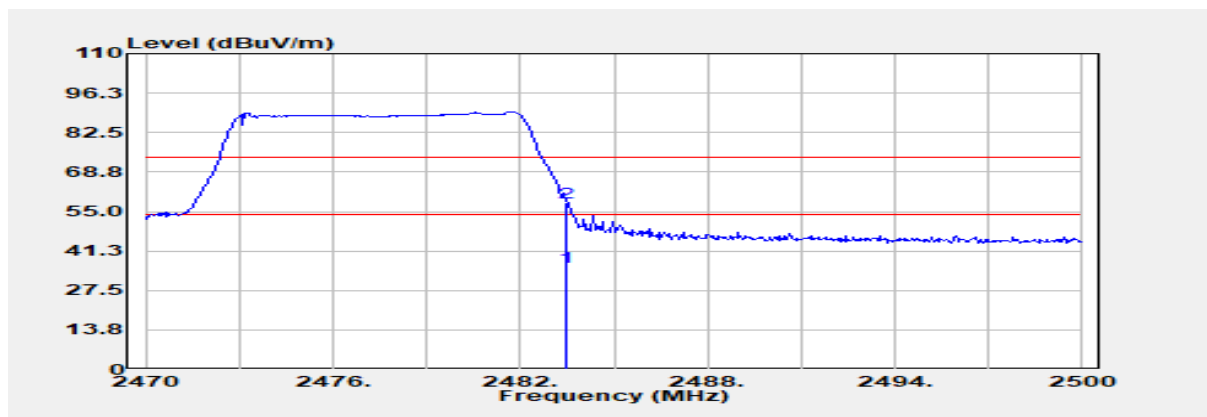
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	40.51	4.04	44.55	54.00	-9.45
2483.500	Peak	63.35	4.04	67.39	74.00	-6.61

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Report Number :E2/2021/20046
Operation Mode :2.4G 10M
Test Frequency :2477.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.4/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



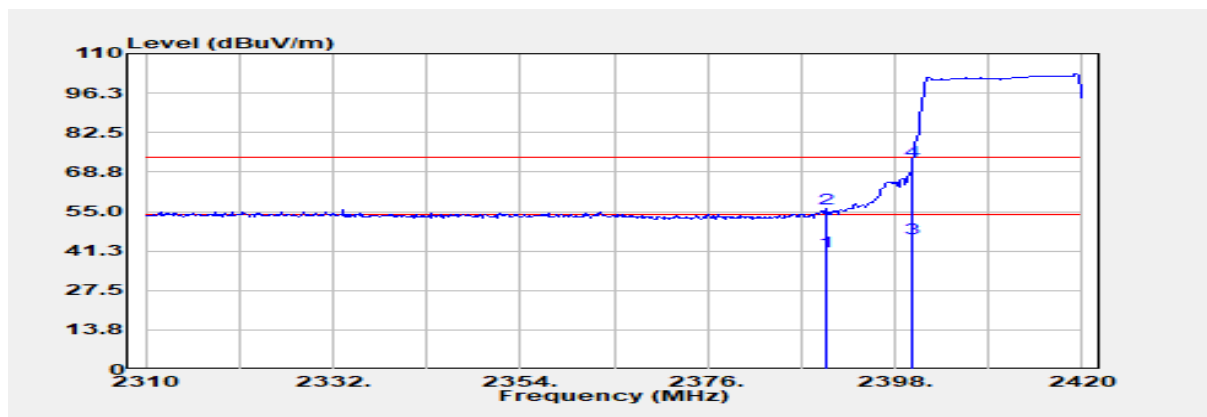
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	31.48	4.04	35.52	54.00	-18.48
2483.500	Peak	53.94	4.04	57.97	74.00	-16.03

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Report Number :E2/2021/20046
Operation Mode :2.4G 20M
Test Frequency :2410.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.5/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



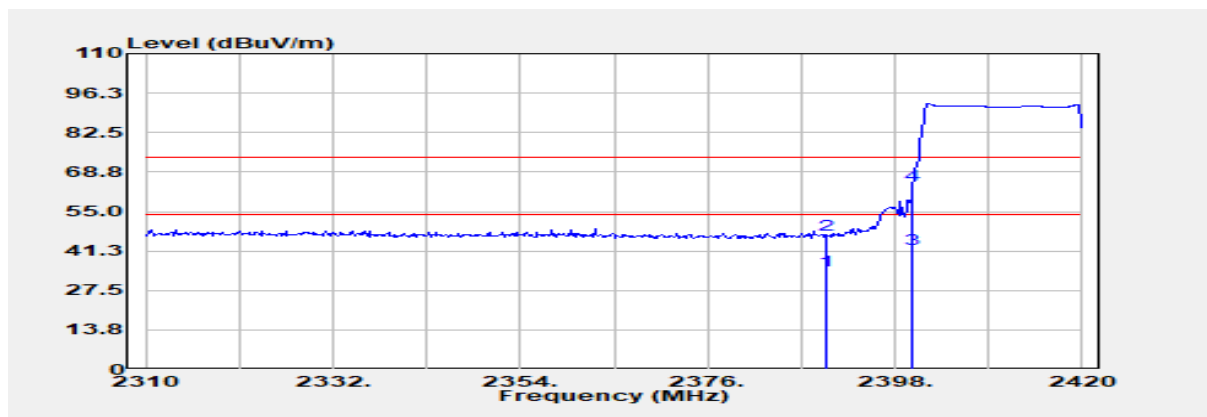
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.000	Average	35.81	5.18	40.99	54.00	-13.01
2390.000	Peak	50.69	5.18	55.87	74.00	-18.13
2400.000	Average	40.58	4.90	45.48	54.00	-8.52
2400.000	Peak	67.56	4.90	72.46	74.00	-1.54

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Report Number :E2/2021/20046
Operation Mode :2.4G 20M
Test Frequency :2410.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.5/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



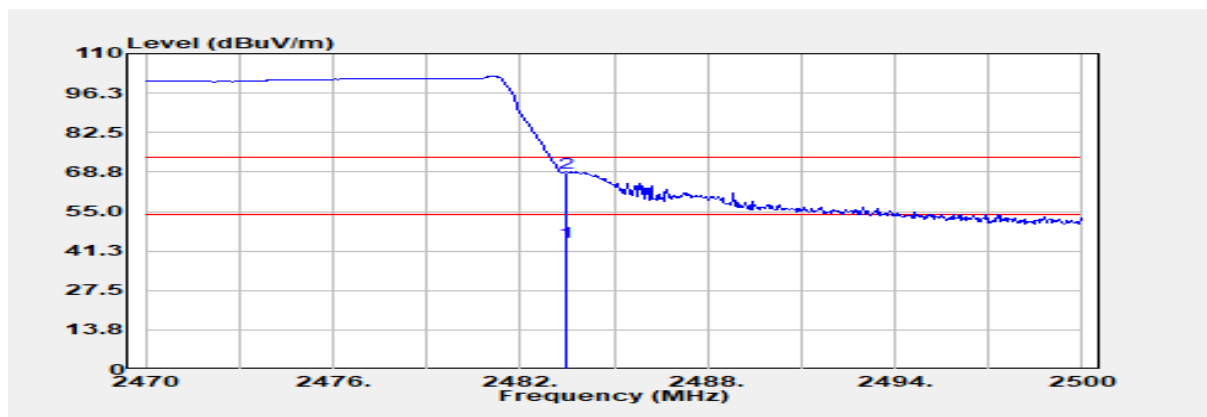
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.000	Average	29.38	5.18	34.56	54.00	-19.44
2390.000	Peak	41.93	5.18	47.11	74.00	-26.89
2400.000	Average	37.15	4.90	42.05	54.00	-11.95
2400.000	Peak	59.36	4.90	64.26	74.00	-9.74

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Report Number :E2/2021/20046
Operation Mode :2.4G 20M
Test Frequency :2472.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.7/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



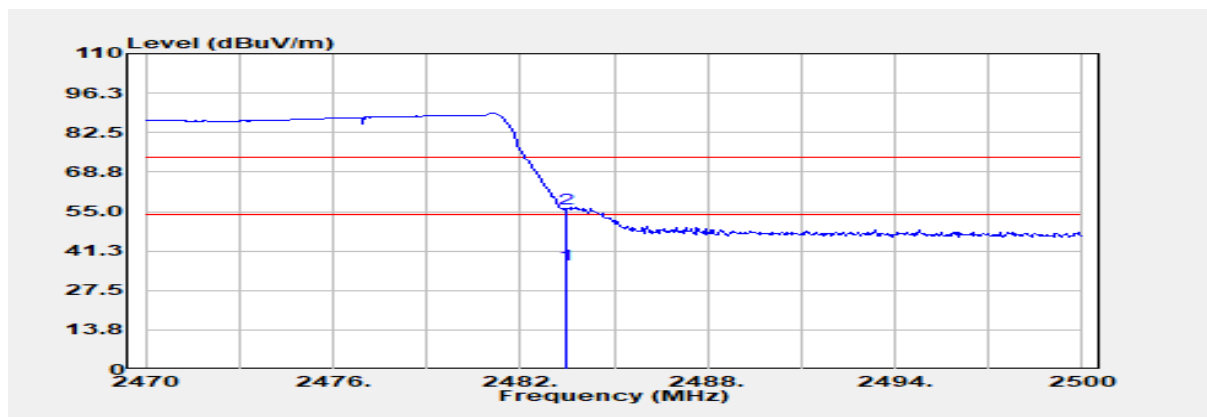
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	40.35	4.04	44.39	54.00	-9.61
2483.500	Peak	64.37	4.04	68.41	74.00	-5.59

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Report Number :E2/2021/20046
Operation Mode :2.4G 20M
Test Frequency :2472.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :21.7/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	32.67	4.04	36.71	54.00	-17.29
2483.500	Peak	51.83	4.04	55.87	74.00	-18.13

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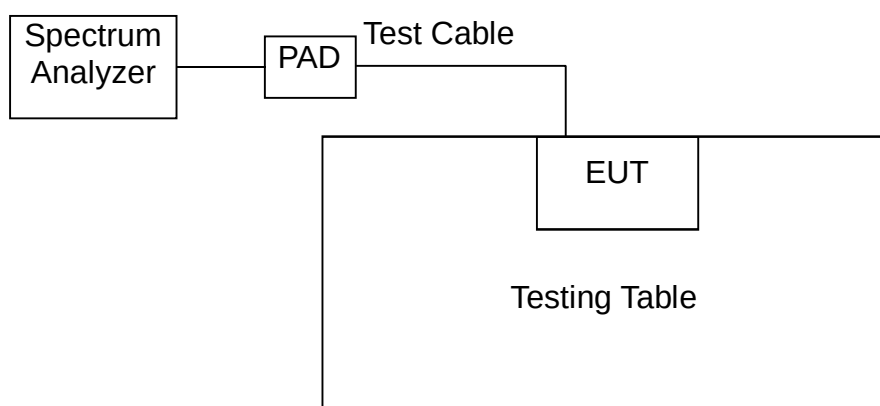
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13 功率密度之量測

13.1 適用標準

依據 NCC 低功率射頻器材技術規範 4.10.1.6(2) (B)規定，對數位調變之展頻系統，在使用頻率範圍之任意 3kHz 頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

13.2 功率密度之測試配置



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台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw

Member of SGS Group

13.3 功率密度量測結果

POWER DENSITY (1.4M)_Ch0				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2403.5	-12.487	-12.49	8.00	PASS
2441.5	-12.514	-12.51	8.00	PASS
2477.5	-12.712	-12.71	8.00	PASS

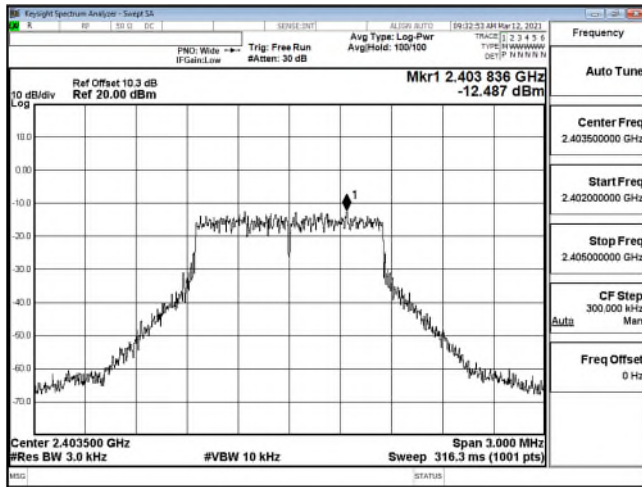
POWER DENSITY (10M)_Ch0				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2405.5	-10.309	-10.31	8.00	PASS
2441.5	-10.625	-10.63	8.00	PASS
2477.5	-19.294	-19.29	8.00	PASS

POWER DENSITY (20M)_Ch0				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2410.5	-18.396	-18.40	8.00	PASS
2441.5	-12.793	-12.79	8.00	PASS
2472.5	-22.8	-22.80	8.00	PASS

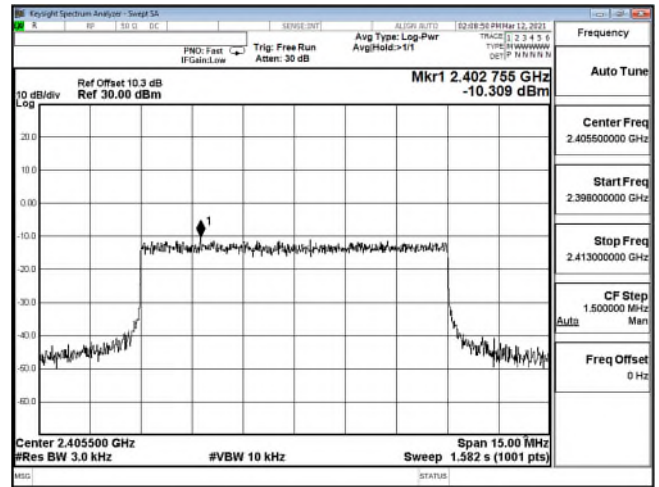
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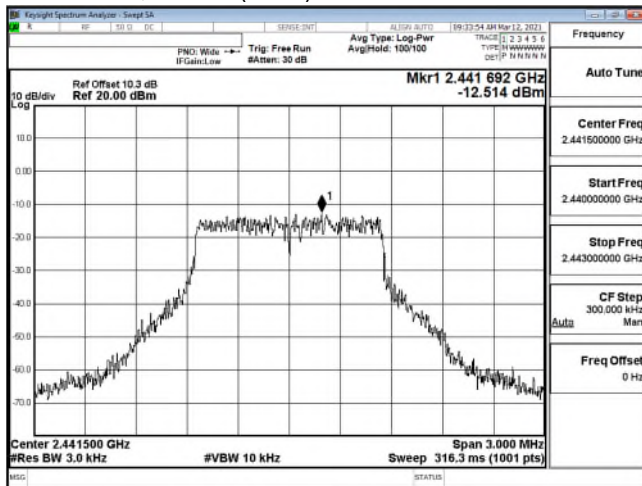
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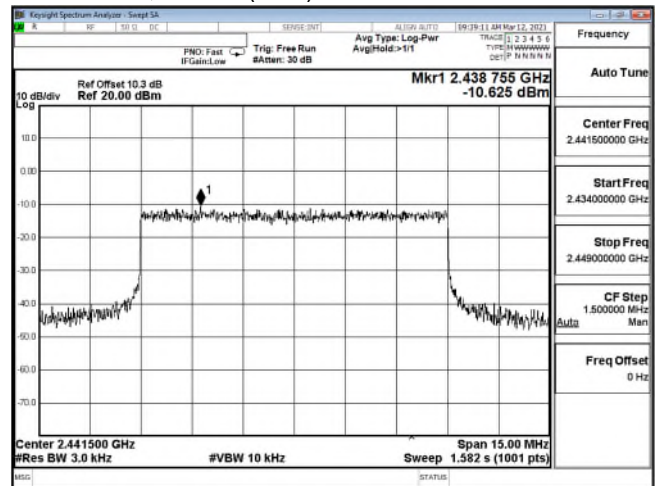
功率密度_(10M)_Chain0_2405.5MHz



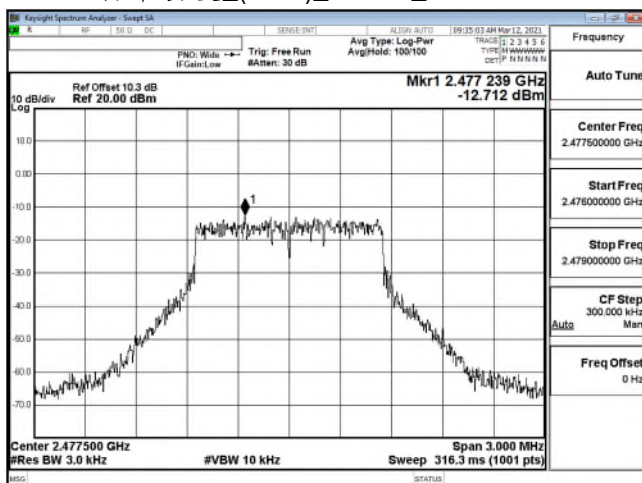
功率密度_(1.4M)_Chain0_2441.5MHz



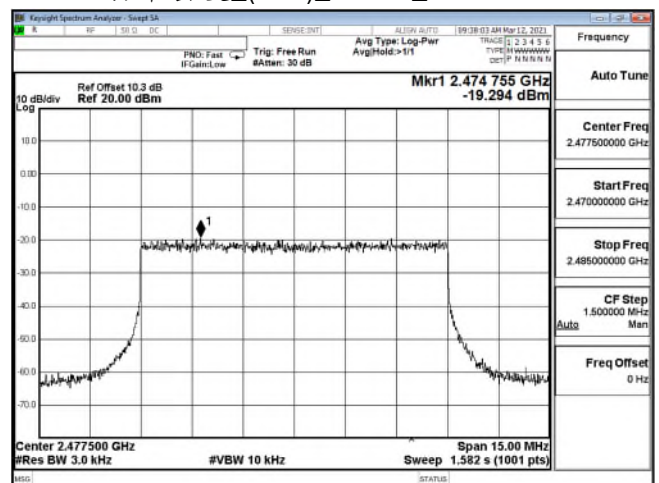
功率密度_(10M)_Chain0_2441.5MHz



功率密度_(1.4M)_Chain0_2477.5MHz



功率密度_(10M)_Chain0_2477.5MHz



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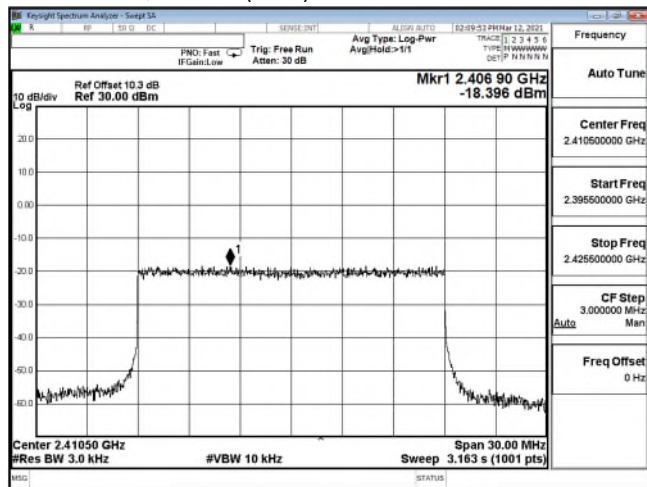
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台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488

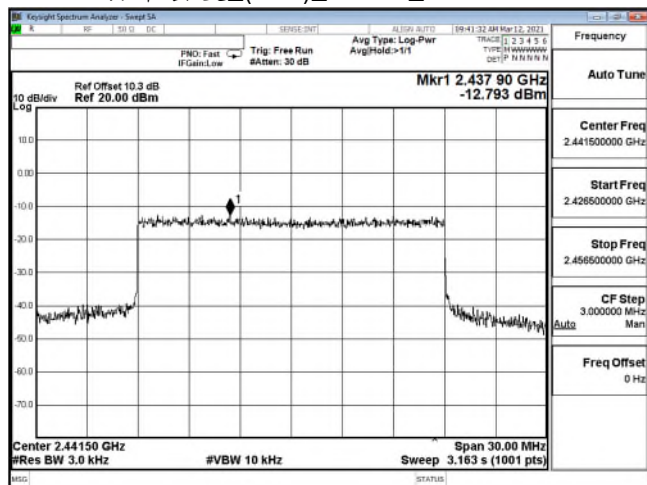
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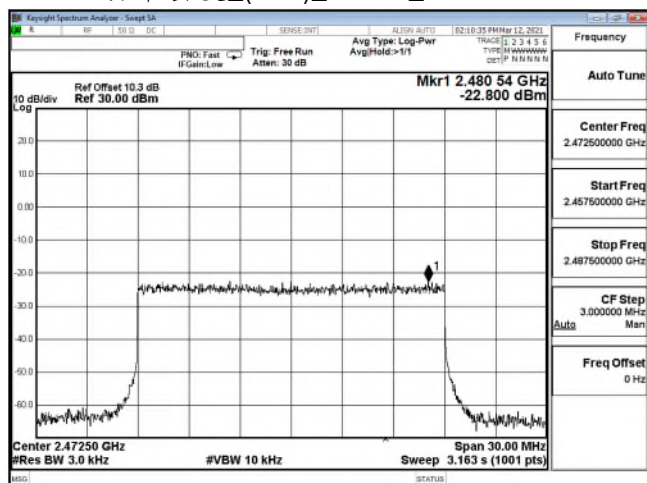
功率密度_(20M)_Chain0_2410.5MHz



功率密度_(20M)_Chain0_2441.5MHz



功率密度_(20M)_Chain0_2472.5MHz



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~ End of Report ~

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