

低功率射頻器材試驗報告



申請廠商	SKULLCANDY, INC. 6301 N Landmark Dr Park City UT 84098, Utah United States of America
製造廠商	SKULLCANDY, INC. 6301 N Landmark Dr Park City UT 84098, Utah United States of America
產品名稱	Dime 2
廠牌	Skullcandy
型號	S2DBW
型號差異	N/A
報告號碼	E2/2021/70079
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Approved By:


裴笛翰

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樣品負責。

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/70079	Rev.00	Original.	Aug.27,2021	Viola Su

Note:

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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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： 110年06月14日起至113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		
	SAC 1	SAC 3	Conduction 1
新北市新北產業園區五工路 134 號	Conducted 1	Conducted 2	Conducted 3
	Conducted 4	Conducted 5	Conducted 6
	SAC C	SAC D	SAC G
桃園市龜山區(華亞科技園區)科技一路 2 號	Conduction C	Conducted A	Conducted B
	Conducted C	Conducted D	Conducted E
	Conducted F	Conducted G	
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			1.53	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		1.53	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	Dime 2		
廠牌	Skullcandy		
型號	S2DBW		
型號差異	N/A		
使用電源	3.7Vdc from Rechargeable Li-polymer Battery		
	Battery	廠牌:東莞益鑫電子科技有限公司; Model NO.:SL390912	
備註	本器材為左耳耳機		

3.2 射頻特性

發射頻帶	2402MHz – 2480MHz
輸出功率	9.95 dBm (Peak)
調變方式	BT BR(GFSK)+EDR($\pi/4$ DQPSK, 8DPSK)
頻道數	79

3.3 天線資訊

Antenna Type	BRAND	Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
FPC Antenna	SKULLCANDY, INC.	S2DMW	2.4GHz	-0.94
Note: Antenna information is provided by the applicant.				

3.4 配件資訊

以下不附賣配件經申請者切結，器材不隨貨提供並由實驗室提供併同檢驗。

是否附賣		配件	廠牌	型號	Power Rating (Vdc)
Yes	No				
☒	☐	USB cable	ZD	ZD-356	N/A
☒	☐	充電盒	Skullcandy	S2DBW	N/A
☒	☐	電池(耳機)	東莞益鑫電子科技有限公司	SL390912	3.7V, 20mA
☒	☐	電池(充電盒)	東莞益鑫電子科技有限公司	SL551135	3.7V, 150mAh
☐	☒	測試治具	AIROHA	C295	N/A
☐	☒	Adapter	HONG SHAING	MUC-5K	5V
☐	☒	USB Cable	DIKE	SH-USB 3M	N/A

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4 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	電源線傳導干擾	低功率射頻器材技術規範 3.3節	符合
2	禁用頻道之輻射發射	低功率射頻器材技術規範 3.5 & 3.6節	符合
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	符合
4	輸出峰值功率	低功率射頻器材技術規範 4.10.1.2.(A)、(B) 節	符合
5	頻帶邊緣之發射	低功率射頻器材技術規範 4.10.1.5節	符合
6	20dB頻寬	低功率射頻器材技術規範 4.10.1.6.(1) (A) 節	符合
7	載波頻率間隔	低功率射頻器材技術規範 4.10.1.6.(1) (A) 節	符合
8	載波頻率之佔用週期	低功率射頻器材技術規範 4.10.1.6.(1) (A)(a) 節	符合
9	頻道數量	低功率射頻器材技術規範 4.10.1.6.(1) (A)(a) 節	符合

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5 測試模式

RADIATED EMISSION TEST:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth	0 to 78	39	GFSK/8-DPSK	DH5/3DH5
RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth	0 to 78	0,39,78	GFSK/8-DPSK	DH5/3DH5
Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case H plane position was reported.				

ANTENNA PORT CONDUCTED MEASUREMENT:

ANTENNA PORT CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
Peak Output Power, 20dB Band Width				
Bluetooth	0 to 78	0,39,78	GFSK	DH5
	0 to 78	0,39,78	$\pi/4$ -DQPSK	2DH5
	0 to 78	0,39,78	8-DPSK	3DH5
Band Edge				
Bluetooth	0 to 78	0,78	GFSK/8-DPSK	DH5/3DH5
Frequency Separation				
Bluetooth	0 to 78	0,1,2,38,39,40,76,77,78	GFSK/8-DPSK	DH5/3DH5
Number of hopping frequency				
Bluetooth	0 to 78	0 to 78	GFSK/8-DPSK	DH5/3DH5
Time of Occupancy(Dwell time)				
Bluetooth	0 to 78	39	GFSK	DH1/DH3/DH5
			$\pi/4$ -DQPSK	2DH1/2DH3/2DH5
			8-DPSK	3DH1/3DH3/3DH5

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6 適用規範

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	

依據NCC低功率射頻器材技術規範3.9節之要求，低功率射頻電機之收、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；收信機之輻射電場強度不得超過3.6之發射規定，且不得解調3.5所列之頻率。

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7 測試配置

7.1 待測物與測試週邊配置圖

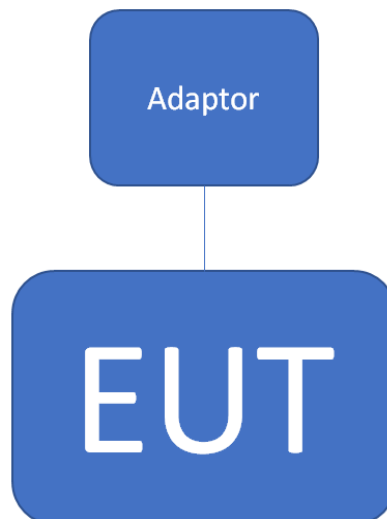
Conducted (Antenna Port) Setup



Radiated Setup



Conduction Setup



7.2 測試週邊描述

編號	產品別	商標	型號	序號	版本
1.	Test Software	audix	e3	20923 sgs Ver.9	N/A
2.	Notebook	Lenovo	L420	S0011721	N/A
3.	USB TO UART_OVO	AIROHA	C295	ZD-356	N/A
4.	D7 Power supply	Hola	DP-3003	D7070035	N/A
5.	Adapter	HONG SHAING	MUC-5K	AC-USB012	N/A
6.	Test Software	audix	e3	Ver. 6.11-20180419c	N/A
7.	USB cable	ZD	ZD-356	N/A	N/A
8.	Test Software	SGS	Radio Test Software	v21.07.19	N/A
9.	DC Power Supply	HOLA	DP-3003	D7070035	N/A
10.	USB Cable	DIKE	SH-USB 3M	N/A	N/A
11.	AB1561_AB1562_AB1563_Airoha_Tool_Kit(ATK)	N/A	N/A	N/A	V1.3.7.918

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8 量測儀器設備

8.1 AC 電源端傳導干擾之量測儀器

Radiated Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 6.11-20180419c	N.C.R	N.C.R
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	03/25/2021	03/24/2022
EMI Test Receiver	R&S	ESCI	101342	04/27/2021	04/26/2022
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2021	03/26/2022
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2021	03/26/2022
Adapter	HONG SHANG	MUC-5K	AC-USB012	N.C.R	N.C.R
USB Cable	ZD	ZD-356	N/A	N.C.R	N.C.R

Note: N.C.R refers to Not Calibrated Required

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。

8.2 天線端傳導測試之量測儀器

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/25/2022
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022
DC Power Supply	HOLA	DP-3003	D7070035	05/28/2021	05/27/2022
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF156	11/19/2020	11/18/2021
治具	AIROHA	C295	N/A	N.C.R	N.C.R
Test Software	SGS	Radio Test Software	v21.07.19	N/A	N/A

Note: N.C.R refers to Not Calibrated Required

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8.3 量測場強輻射之量測儀器

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	1206	02/22/2021	02/21/2022
Horn Antenna	Schwarzbeck	DRH18-E	210105A18E	04/09/2021	04/08/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2021	03/29/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/06/2021	04/05/2022
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC118A45 SE	980815	03/15/2021	03/14/2022
Attenuator	Marvelous	MVE2213-30	RF04	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
High Pass Filter	R&S	HPF7.0	RF176	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0037	RF204	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
D7 Power supply	Hola	DP-3003	D7070035	05/28/2021	05/27/2022
USB TO UART_OVO	AIROHA	C295	ZD-356	N.C.R	N.C.R
USB Cable	DIKE	SH-USB 3M	N/A	N.C.R	N.C.R
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219、210220、210221	03/15/2021	03/14/2022
Notebook	Lenovo	L420	S0011721	N/A	N/A
治具	AIROHA	C295	N/A	N.C.R	N.C.R

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9 電源線傳導干擾之量測

9.1 適用標準

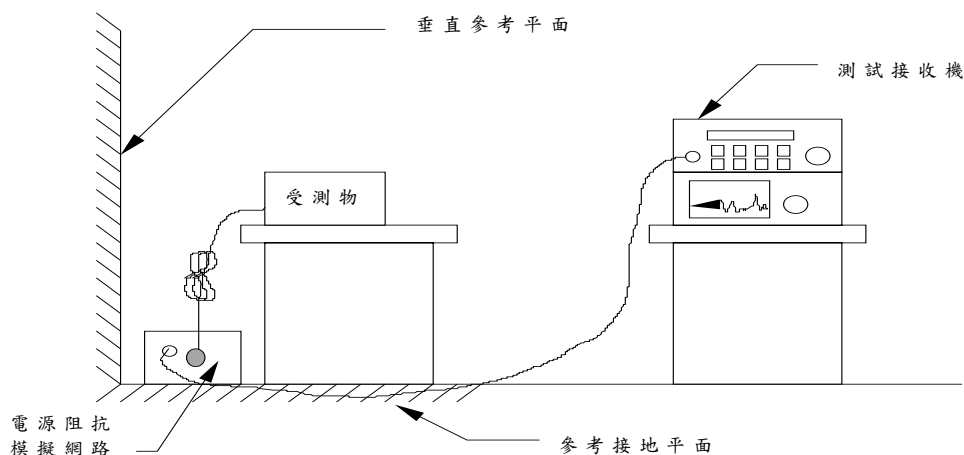
依據NCC低功率射頻器材技術規範之3.3節，以市電為電源之低功率射頻器材，其傳導回電源線上頻率自150 kHz~30 百萬赫(MHz)之射頻電壓(在電源端子每一電源線對接地點)應小於或等於下表所列之限制值。測量時應經過50 微亨利(uH)及50 歐姆(Ω)之電源線阻抗穩定網路(Line Impedance Stabilization Network; LISN)。頻率重疊處，以較低限制值為準。

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

9.2 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。

9.3 測試配置



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9.4 干擾值之計算

電源傳導干擾電壓之計算公式 =
儀器讀值(QP/AV) + 校正因子 (饋線損失 + 電源阻抗模擬網路損失)

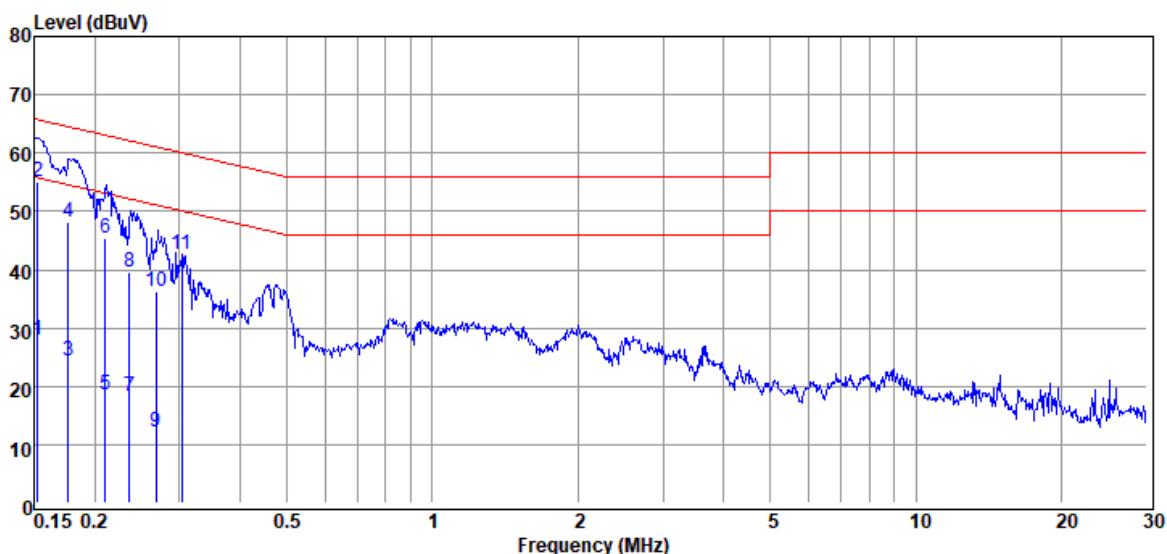
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9.5 傳導干擾之量測結果:

Report Number :E2/2021/70079 Test Site :Conduction Room C
Test Mode :System Test Date :2021-07-26
Power :110V/60Hz Temp./Humi. :24.1/59
Probe :L1 Engineer :Jack Tseng
Note :Adapter: AC-USB012



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.15	Average	17.64	10.31	27.95	55.86	-27.91
0.15	QP	44.89	10.31	55.20	65.86	-10.66
0.18	Average	14.10	10.30	24.40	54.64	-30.24
0.18	QP	37.94	10.30	48.24	64.64	-16.40
0.21	Average	8.16	10.30	18.46	53.19	-34.73
0.21	QP	35.12	10.30	45.42	63.19	-17.77
0.24	Average	8.01	10.30	18.31	52.21	-33.90
0.24	QP	29.28	10.30	39.58	62.21	-22.63
0.27	Average	1.95	10.31	12.26	51.16	-38.90
0.27	QP	25.92	10.31	36.23	61.16	-24.93
0.30	Peak	32.33	10.32	42.65	60.15	-17.50

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Report Number :E2/2021/70079

Test Site :Conduction Room C

Test Mode :System

Test Date :2021-07-26

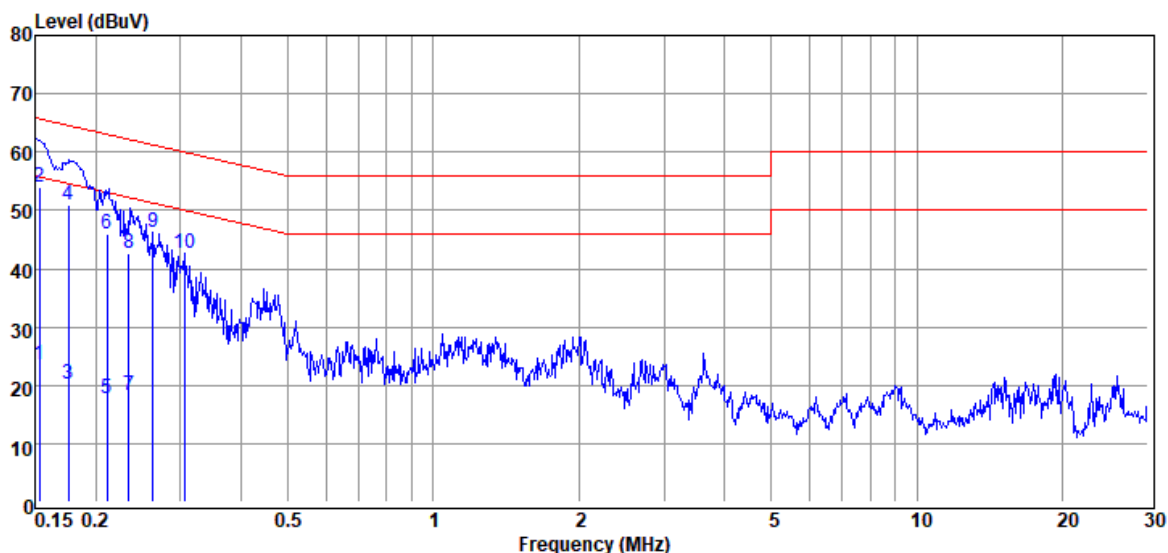
Power :110V/60Hz

Temp./Humi. :24.1/59

Probe :N

Engineer :Jack Tseng

Note :Adapter: AC-USB012



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	13.21	10.31	23.52	55.82	-32.30
0.15	QP	43.74	10.31	54.05	65.82	-11.77
0.18	Average	9.98	10.30	20.28	54.68	-34.40
0.18	QP	40.71	10.30	51.01	64.68	-13.67
0.21	Average	7.54	10.30	17.84	53.14	-35.30
0.21	QP	35.67	10.30	45.97	63.14	-17.17
0.23	Average	7.99	10.30	18.29	52.30	-34.01
0.23	QP	32.45	10.30	42.75	62.30	-19.55
0.26	Peak	35.92	10.31	46.23	61.34	-15.11
0.31	Peak	32.25	10.32	42.57	60.10	-17.53

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10 禁用頻帶輻射發射之量測

10.1 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

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 $\geq$ 98%	1MHz	10Hz	Average
1GHz以上 Duty Cycle < 98%	1MHz	1/T	Average

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10.2 場強計算

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 之輻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。

輻射量測僅附上最差模式（30MHz 以上）。

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

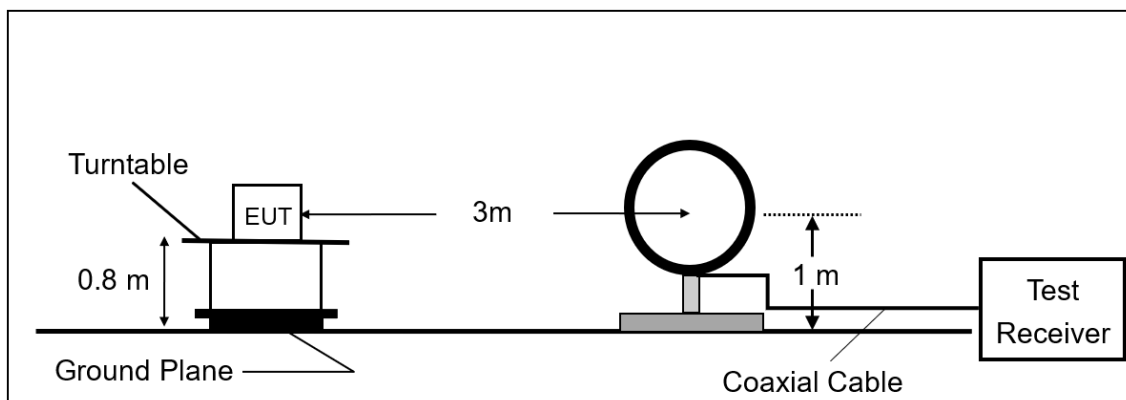
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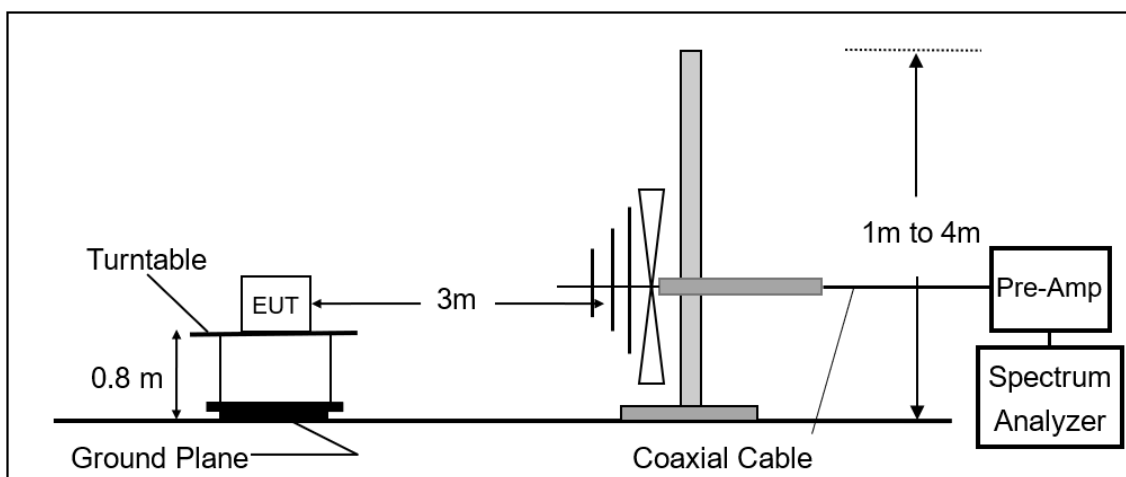
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10.3 輻射之測試配置

(A) 量測頻率低於 30MHz 以下之測試配置



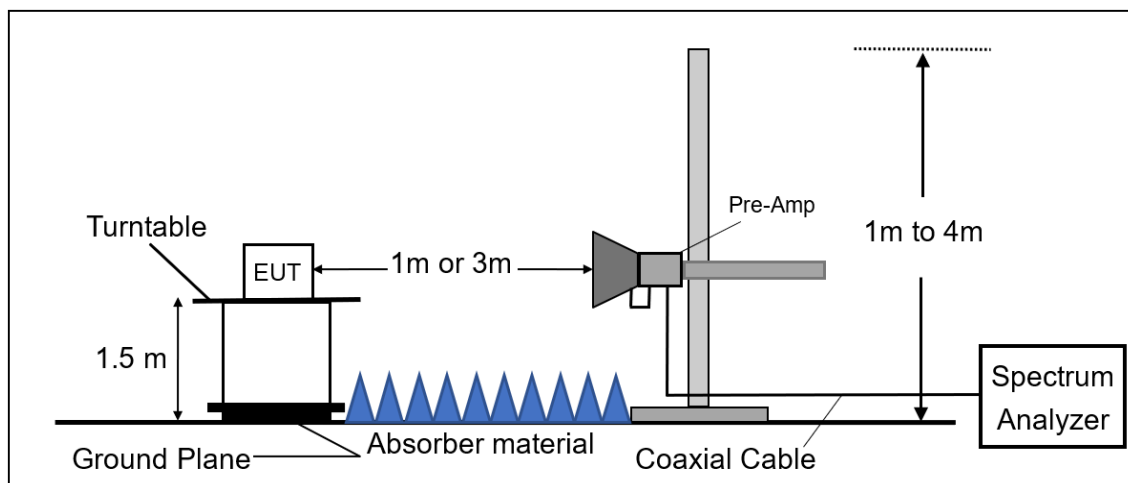
(B) 量測頻率 30MHz 至 1000MHz 之測試配置



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(C) 量測頻率 1000MHz 以上之測試配置



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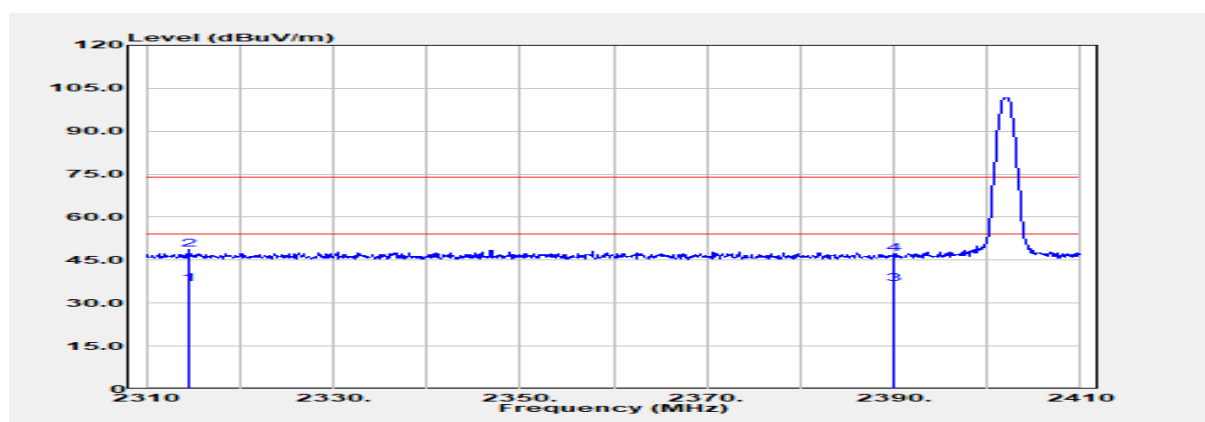
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10.4 場強輻射之量測結果

10.4.1 禁用頻帶輻射量測值

Report Number :E2/2021/70079
 Operation Mode :BT BR
 Test Frequency :2402 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2021-07-23
 Temp./Humi. :19.8/71
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2314.600	Average	40.31	-3.69	36.63	54.00	-17.37
2314.600	Peak	52.28	-3.69	48.60	74.00	-25.40
2390.000	Average	40.53	-3.80	36.73	54.00	-17.27
2390.000	Peak	51.14	-3.80	47.34	74.00	-26.66

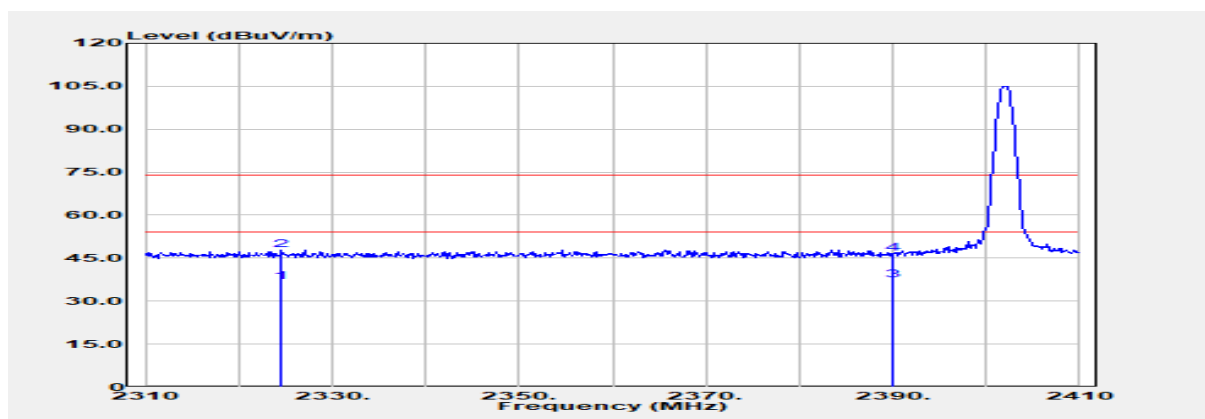
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2402 MHz
Test Mode :BE CH LOW
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2324.500	Average	40.35	-3.69	36.66	54.00	-17.34
2324.500	Peak	51.64	-3.69	47.95	74.00	-26.05
2390.000	Average	40.97	-3.80	37.17	54.00	-16.83
2390.000	Peak	50.47	-3.80	46.67	74.00	-27.33

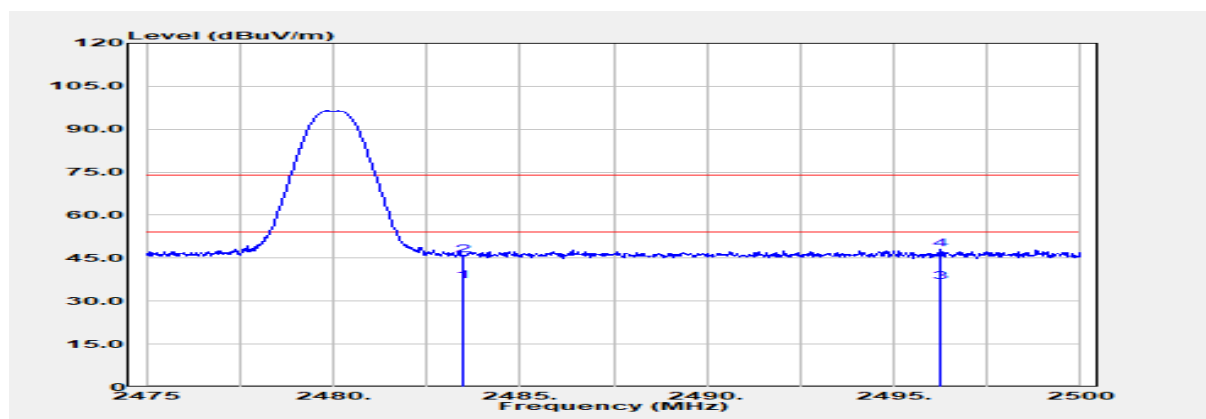
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Vertical
Engineer :Jack Tseng



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	40.84	-3.92	36.93	54.00	-17.07
2483.500	Peak	49.84	-3.92	45.92	74.00	-28.08
2496.225	Average	40.47	-3.86	36.61	54.00	-17.39
2496.225	Peak	51.97	-3.86	48.11	74.00	-25.89

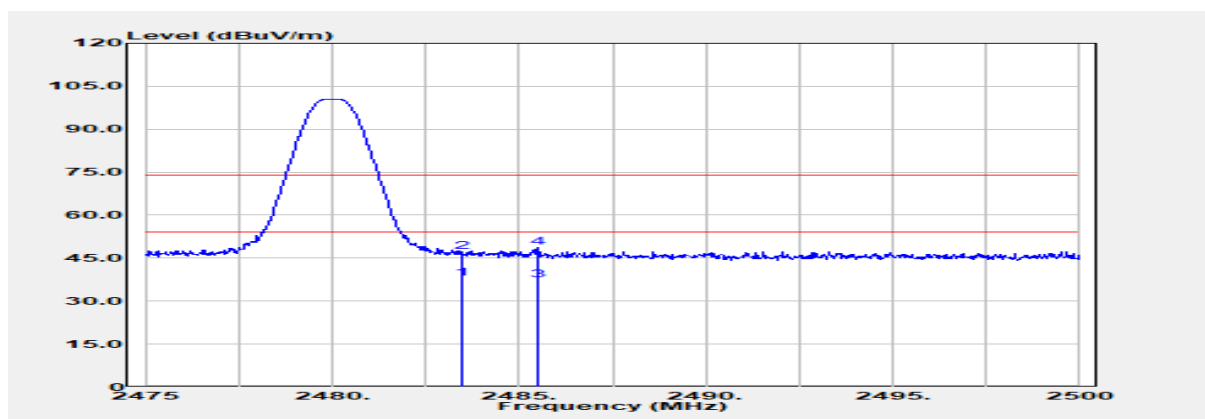
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Horizontal
Engineer :Jack Tseng



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	41.76	-3.92	37.84	54.00	-16.16
2483.500	Peak	51.26	-3.92	47.34	74.00	-26.66
2485.525	Average	41.21	-3.91	37.30	54.00	-16.70
2485.525	Peak	52.58	-3.91	48.68	74.00	-25.32

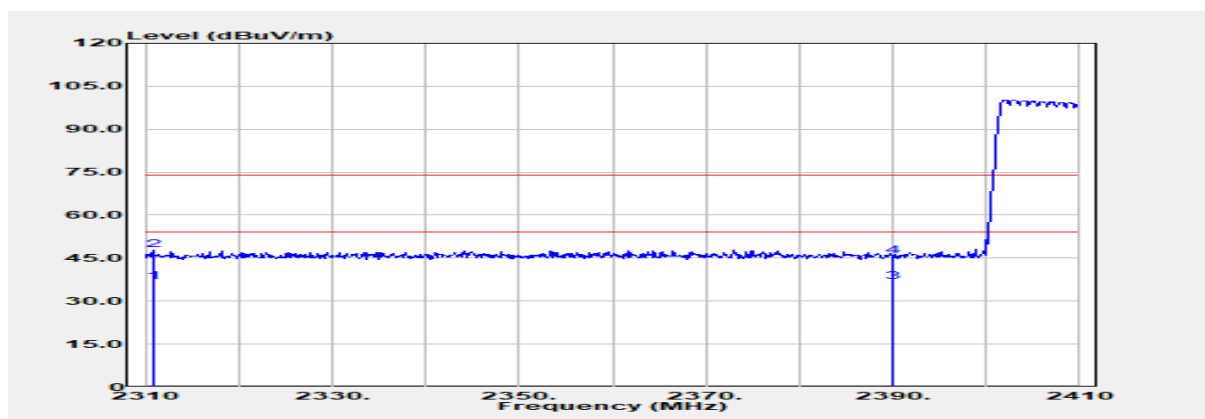
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Report Number :E2/2021/70079
 Operation Mode :BT BR HOPPING
 Test Frequency :2402 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2021-07-26
 Temp./Humi. :19.3/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2310.800	Average	40.40	-3.69	36.71	54.00	-17.29
2310.800	Peak	51.49	-3.69	47.80	74.00	-26.20
2390.000	Average	40.51	-3.80	36.71	54.00	-17.29
2390.000	Peak	49.53	-3.80	45.73	74.00	-28.27

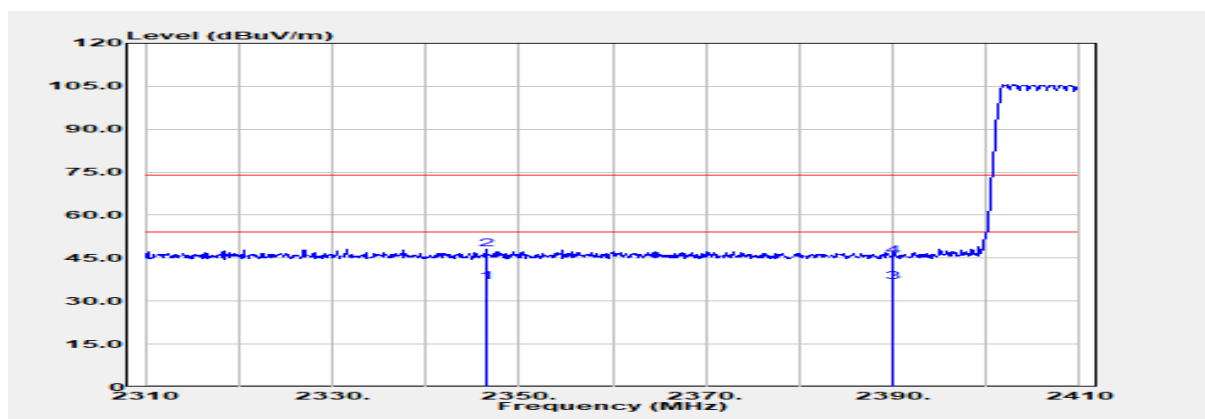
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Report Number :E2/2021/70079
Operation Mode :BT BR HOPPING
Test Frequency :2402 MHz
Test Mode :BE CH LOW
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. :19.3/70
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2346.400	Average	40.34	-3.66	36.68	54.00	-17.32
2346.400	Peak	51.77	-3.66	48.11	74.00	-25.89
2390.000	Average	40.49	-3.80	36.69	54.00	-17.31
2390.000	Peak	49.52	-3.80	45.72	74.00	-28.28

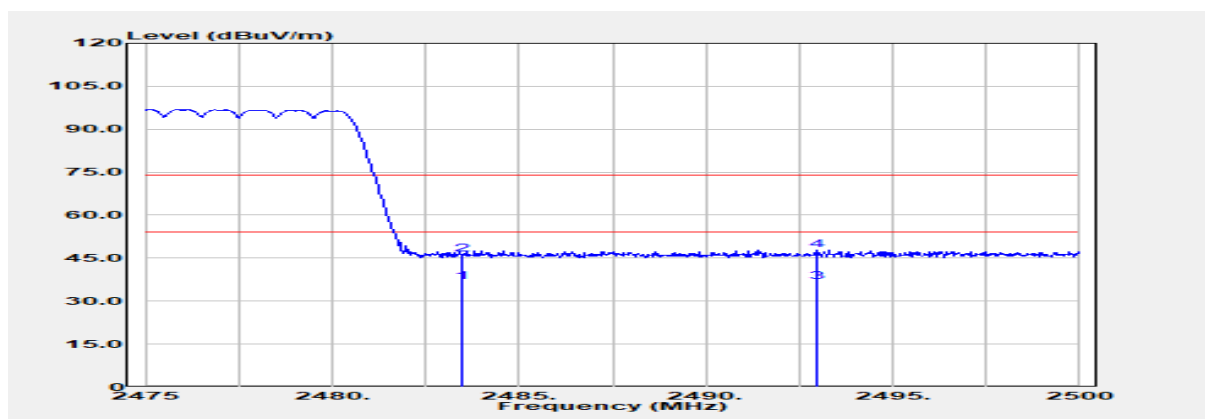
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Report Number :E2/2021/70079
Operation Mode :BT BR HOPPING
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. :19.3/70
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.500	Average	40.75	-3.92	36.84	54.00	-17.16
2483.500	Peak	50.26	-3.92	46.34	74.00	-27.66
2492.950	Average	40.52	-3.87	36.65	54.00	-17.35
2492.950	Peak	51.80	-3.87	47.93	74.00	-26.07

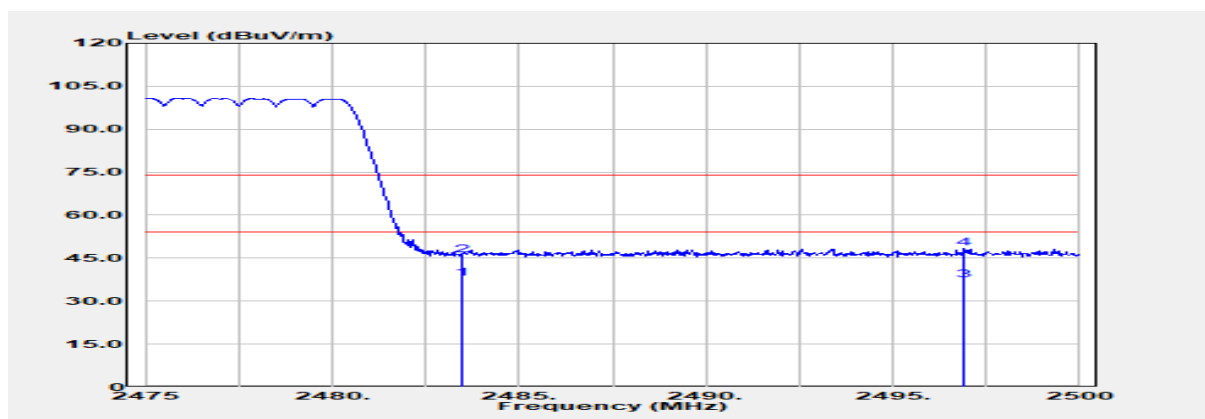
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Report Number :E2/2021/70079
Operation Mode :BT BR HOPPING
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. :19.3/70
Antenna Pol. :Horizontal
Engineer :Jack Tseng



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	41.78	-3.92	37.86	54.00	-16.14
2483.500	Peak	49.95	-3.92	46.03	74.00	-27.97
2496.900	Average	41.13	-3.86	37.27	54.00	-16.73
2496.900	Peak	52.14	-3.86	48.28	74.00	-25.72

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Report Number :E2/2021/70079

Test Site :SAC G

Operation Mode :BT EDR

Test Date :2021-07-23

Test Frequency :2402 MHz

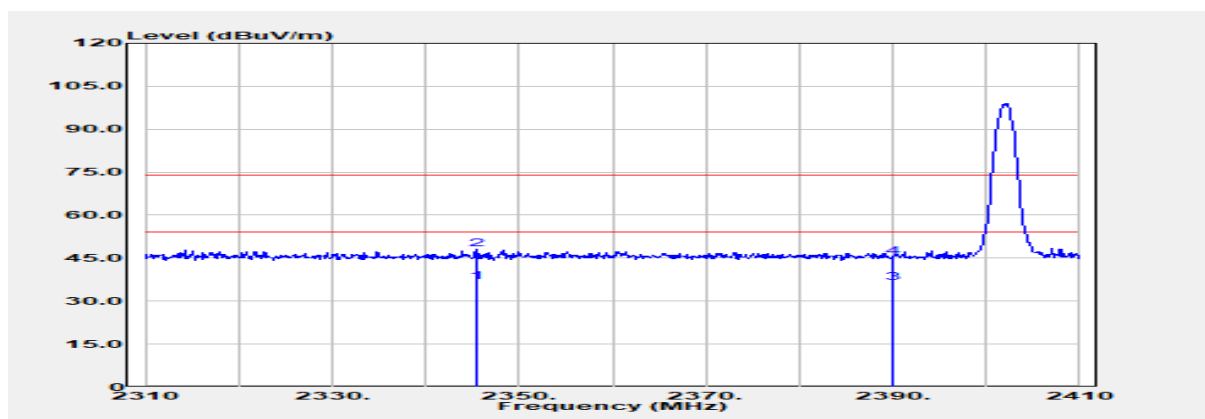
Temp./Humi. :19.8/71

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2345.400	Average	40.39	-3.67	36.72	54.00	-17.28
2345.400	Peak	51.66	-3.67	47.98	74.00	-26.02
2390.000	Average	40.27	-3.80	36.47	54.00	-17.53
2390.000	Peak	49.08	-3.80	45.28	74.00	-28.72

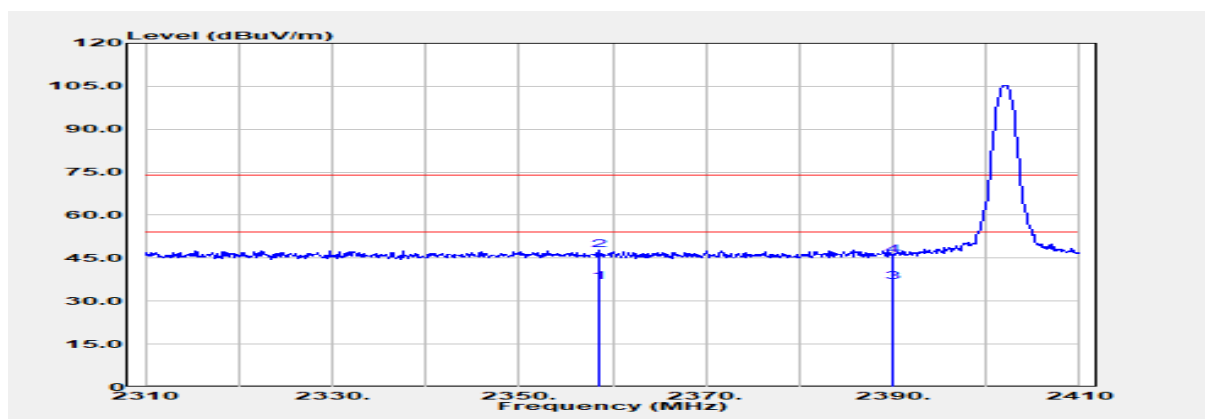
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Report Number :E2/2021/70079
Operation Mode :BT EDR
Test Frequency :2402 MHz
Test Mode :BE CH LOW
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2358.500	Average	40.39	-3.61	36.78	54.00	-17.22
2358.500	Peak	51.45	-3.61	47.84	74.00	-26.16
2390.000	Average	40.47	-3.80	36.67	54.00	-17.33
2390.000	Peak	49.79	-3.80	45.99	74.00	-28.01

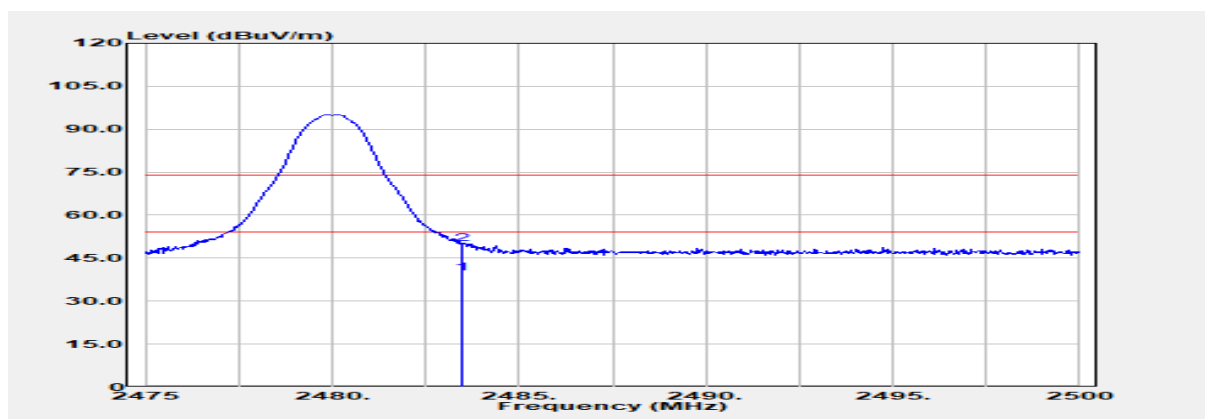
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Report Number :E2/2021/70079
Operation Mode :BT EDR
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Vertical
Engineer :Jack Tseng



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	43.59	-3.92	39.67	54.00	-14.33
2483.500	Peak	53.76	-3.92	49.84	74.00	-24.16

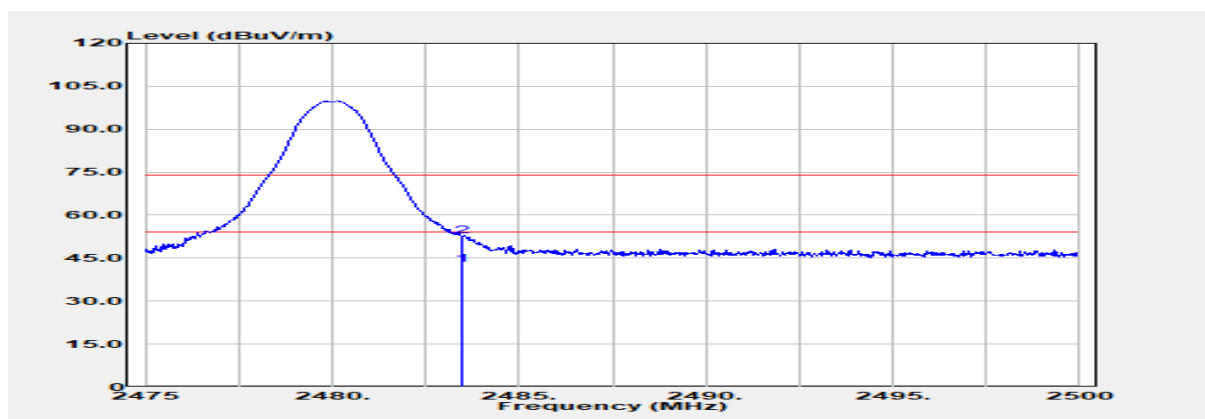
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Report Number :E2/2021/70079
Operation Mode :BT EDR
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Horizontal
Engineer :Jack Tseng



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	46.52	-3.92	42.60	54.00	-11.40
2483.500	Peak	56.69	-3.92	52.77	74.00	-21.23

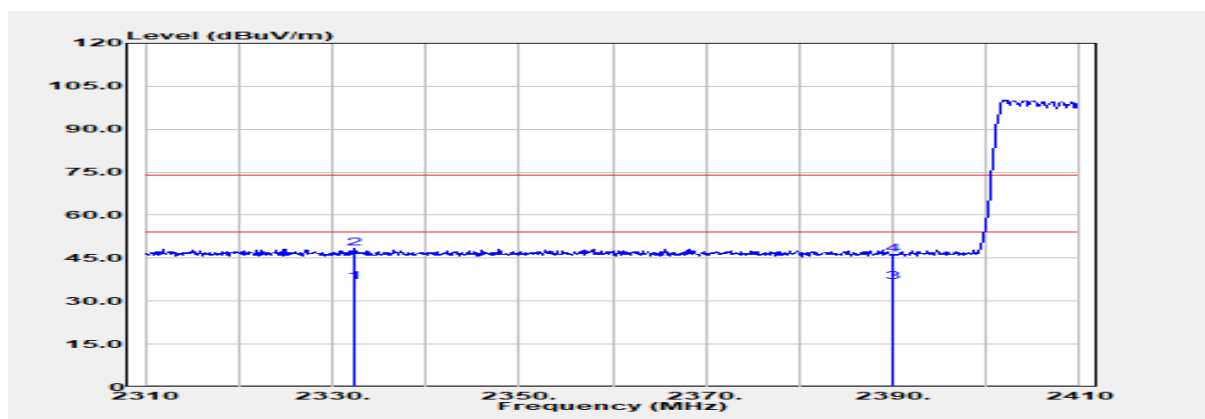
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Report Number :E2/2021/70079
Operation Mode :BT EDR HOPPING
Test Frequency :2402 MHz
Test Mode :BE CH LOW
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. :19.3/70
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2332.400	Average	40.27	-3.71	36.55	54.00	-17.45
2332.400	Peak	51.99	-3.71	48.27	74.00	-25.73
2390.000	Average	40.48	-3.80	36.68	54.00	-17.32
2390.000	Peak	50.16	-3.80	46.36	74.00	-27.64

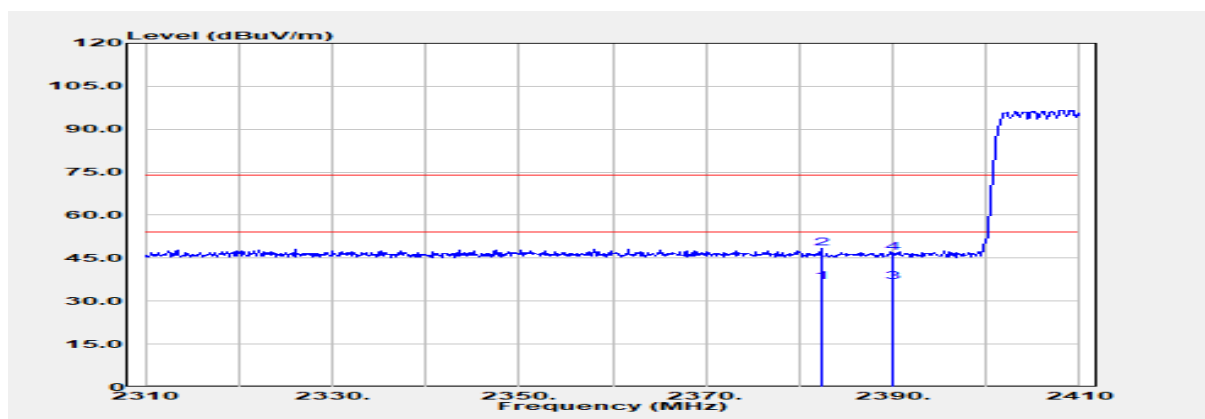
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Report Number :E2/2021/70079
Operation Mode :BT EDR HOPPING
Test Frequency :2402 MHz
Test Mode :BE CH LOW
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. :19.3/70
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2382.300	Average	40.39	-3.77	36.62	54.00	-17.38
2382.300	Peak	52.26	-3.77	48.49	74.00	-25.51
2390.000	Average	40.35	-3.80	36.55	54.00	-17.45
2390.000	Peak	50.58	-3.80	46.78	74.00	-27.22

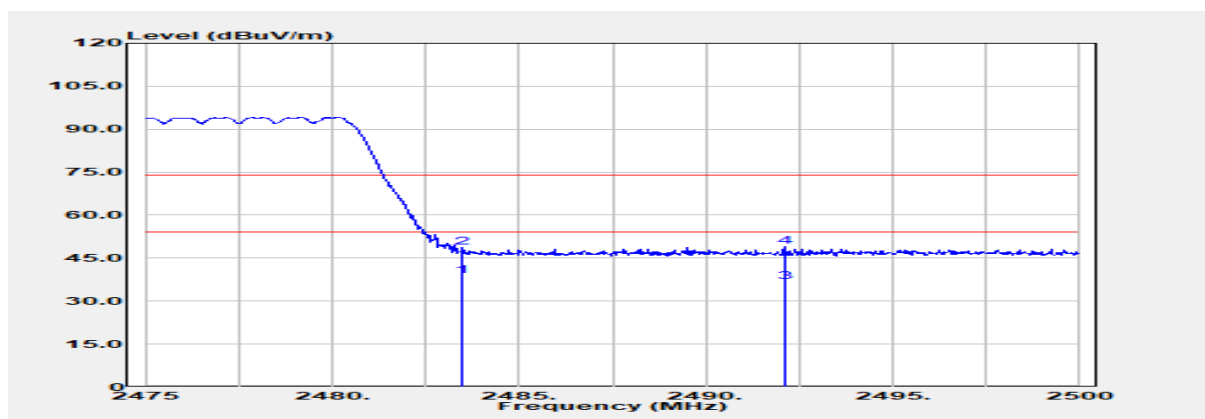
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Report Number :E2/2021/70079
Operation Mode :BT EDR HOPPING
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. :19.3/70
Antenna Pol. :Vertical
Engineer :Jack Tseng



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	42.78	-3.92	38.86	54.00	-15.14
2483.500	Peak	52.70	-3.92	48.78	74.00	-25.22
2492.125	Average	40.62	-3.87	36.75	54.00	-17.25
2492.125	Peak	52.79	-3.87	48.92	74.00	-25.08

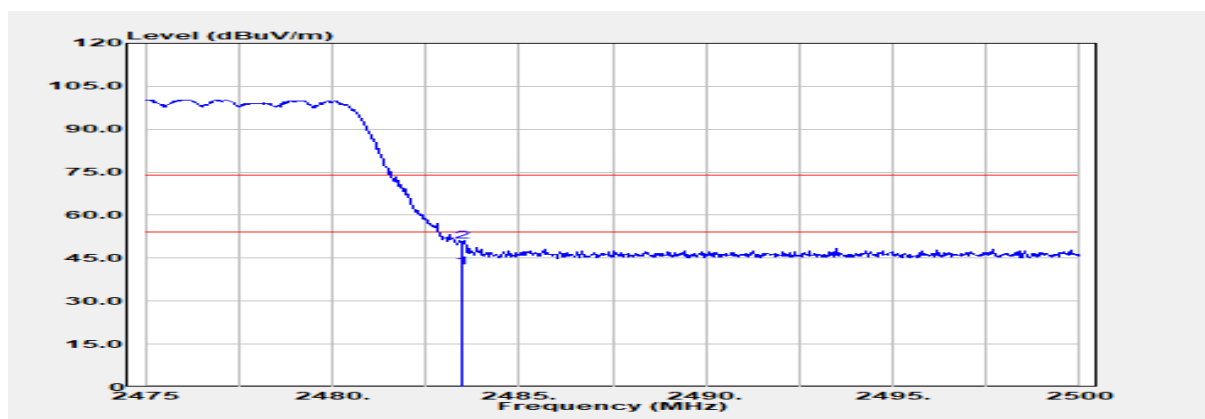
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Report Number :E2/2021/70079
Operation Mode :BT EDR HOPPING
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. :19.3/70
Antenna Pol. :Horizontal
Engineer :Jack Tseng



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	45.86	-3.92	41.95	54.00	-12.05
2483.500	Peak	54.73	-3.92	50.81	74.00	-23.19

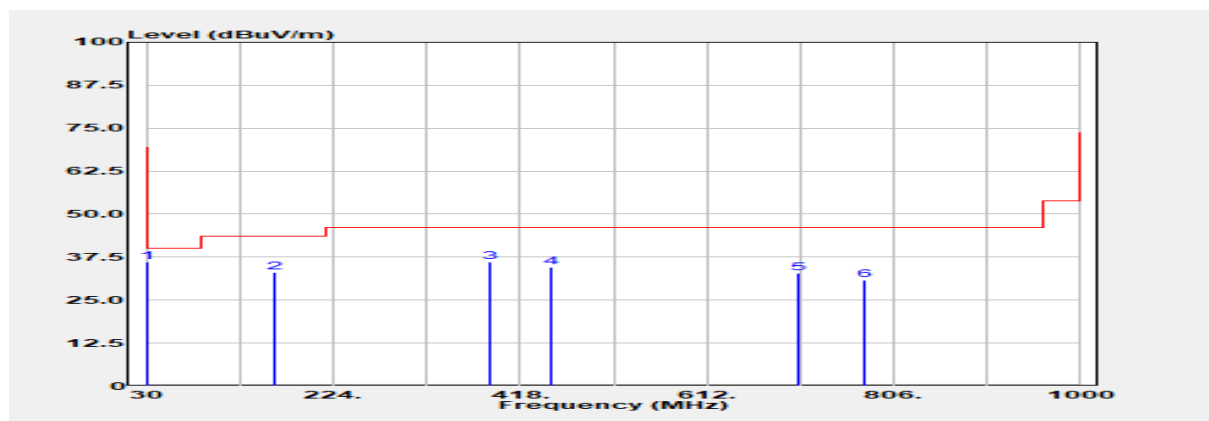
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10.4.2 發射機場強輻射之量測結果(1GHz 以下) 最差模式

Report Number	:E2/2021/70079	Test Site	:SAC G
Operation Mode	:BT BR	Test Date	:2021-07-26
Test Frequency	:2441 MHz	Temp./Humi.	:19.3/70
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
30.970	Peak	50.74	-14.58	36.16	40.00	-3.84
163.860	Peak	46.48	-13.32	33.16	43.50	-10.34
385.990	Peak	46.38	-10.22	36.16	46.00	-9.84
450.980	Peak	42.87	-8.39	34.48	46.00	-11.52
707.060	Peak	36.46	-3.64	32.82	46.00	-13.18
774.960	Peak	33.46	-2.73	30.73	46.00	-15.27

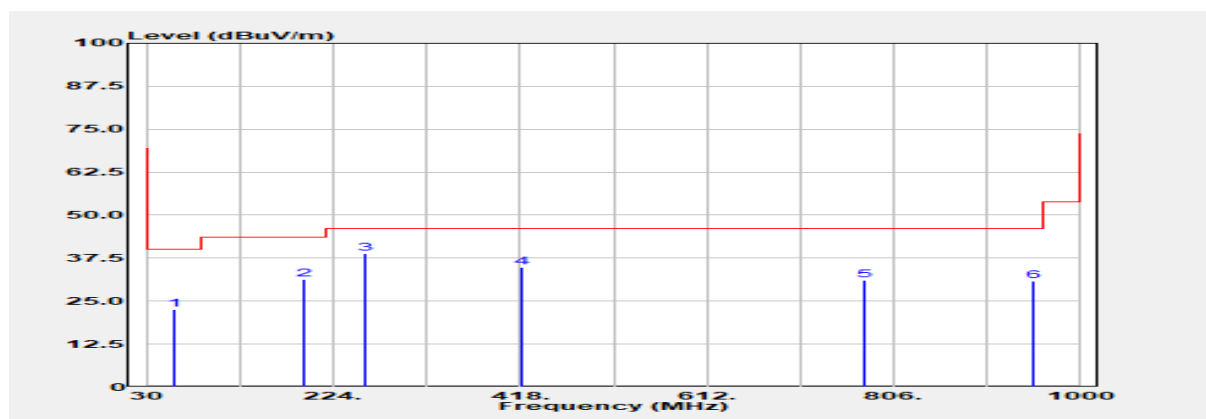
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. :19.3/70
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
59.100	Peak	36.14	-13.61	22.53	40.00	-17.47
192.960	Peak	47.39	-15.99	31.40	43.50	-12.10
257.950	Peak	52.87	-14.00	38.87	46.00	-7.13
418.970	Peak	43.90	-9.10	34.80	46.00	-11.20
774.960	Peak	33.81	-2.73	31.08	46.00	-14.92
950.530	Peak	30.66	0.29	30.95	46.00	-15.05

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10.4.3 Fully System

Report Number :E2/2021/70079

Test Site :SAC G

Operation Mode :System

Test Date :2021-07-26

Test Frequency :System

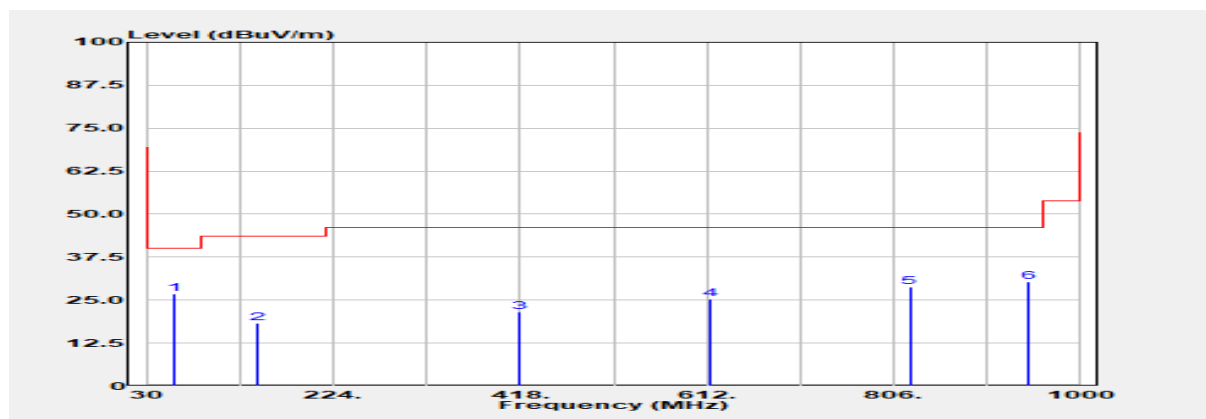
Temp./Humi. :19.3/70

Test Mode :System

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
59.100	Peak	40.51	-13.61	26.90	40.00	-13.10
144.460	Peak	31.31	-13.07	18.24	43.50	-25.26
416.060	Peak	31.07	-9.44	21.63	46.00	-24.37
615.880	Peak	31.35	-6.00	25.35	46.00	-20.65
822.490	Peak	30.71	-1.96	28.75	46.00	-17.25
946.650	Peak	30.05	0.18	30.22	46.00	-15.78

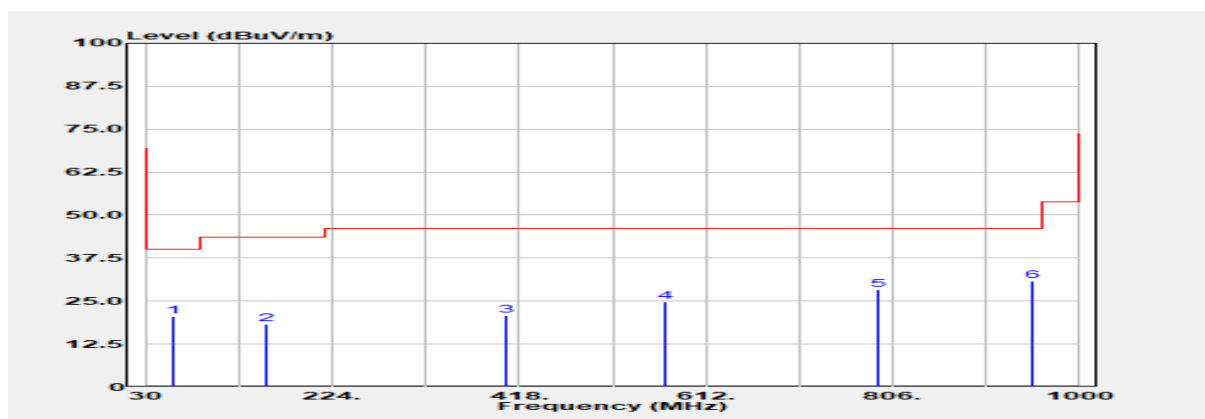
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Report Number :E2/2021/70079
Operation Mode :System
Test Frequency :System
Test Mode :System
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. :19.3/70
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
58.130	Peak	33.96	-13.44	20.52	40.00	-19.48
156.100	Peak	31.30	-13.08	18.22	43.50	-25.28
405.390	Peak	30.58	-9.74	20.84	46.00	-25.16
570.290	Peak	30.54	-5.76	24.78	46.00	-21.22
790.480	Peak	30.61	-2.28	28.33	46.00	-17.67
950.530	Peak	30.66	0.29	30.95	46.00	-15.05

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10.4.4 發射機場強輻射之量測結果(1GHz 以上) (最差模式)

Report Number :E2/2021/70079

Test Site :SAC G

Operation Mode :BT BR

Test Date :2021-07-23

Test Frequency :2402 MHz

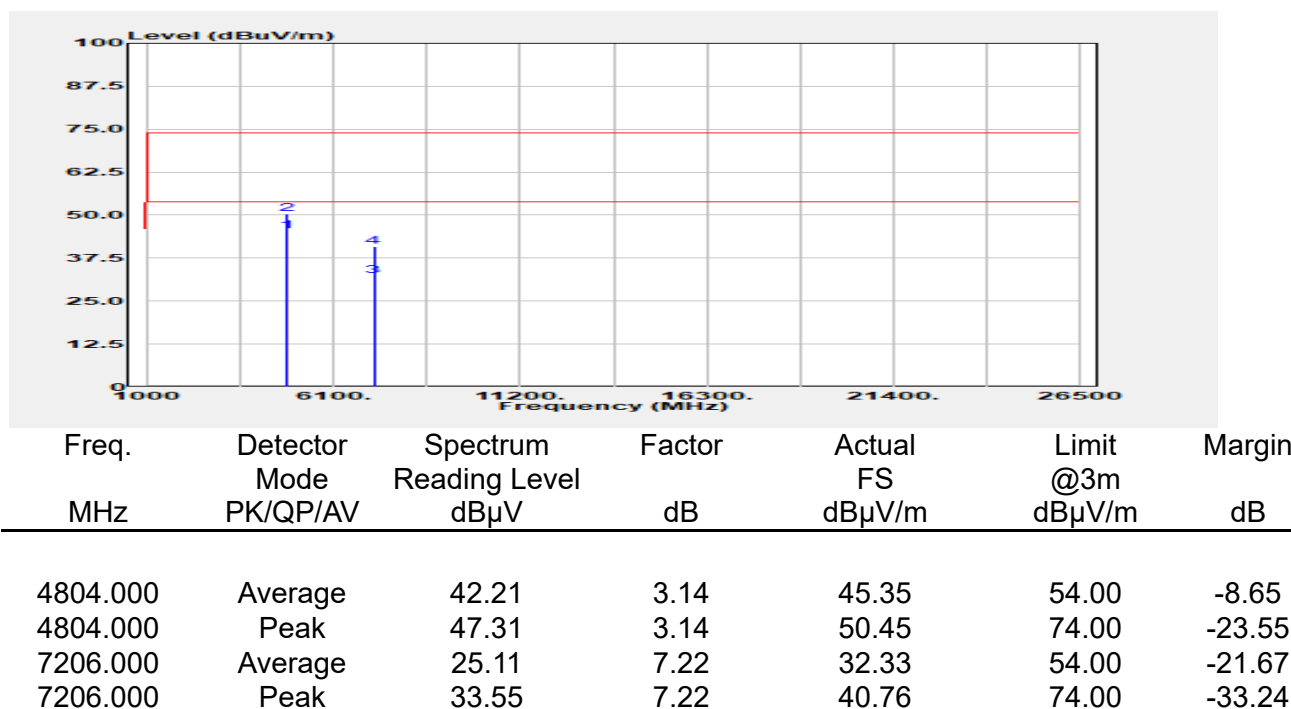
Temp./Humi. :19.8/71

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



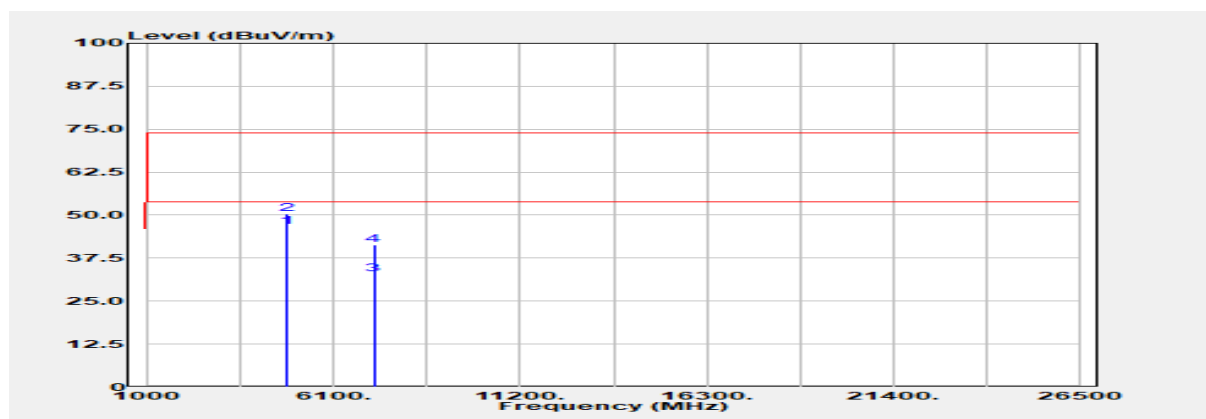
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2402 MHz
Test Mode :TX CH LOW
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	43.41	3.14	46.55	54.00	-7.45
4804.000	Peak	47.22	3.14	50.36	74.00	-23.64
7206.000	Average	25.53	7.22	32.75	54.00	-21.25
7206.000	Peak	34.19	7.22	41.40	74.00	-32.60

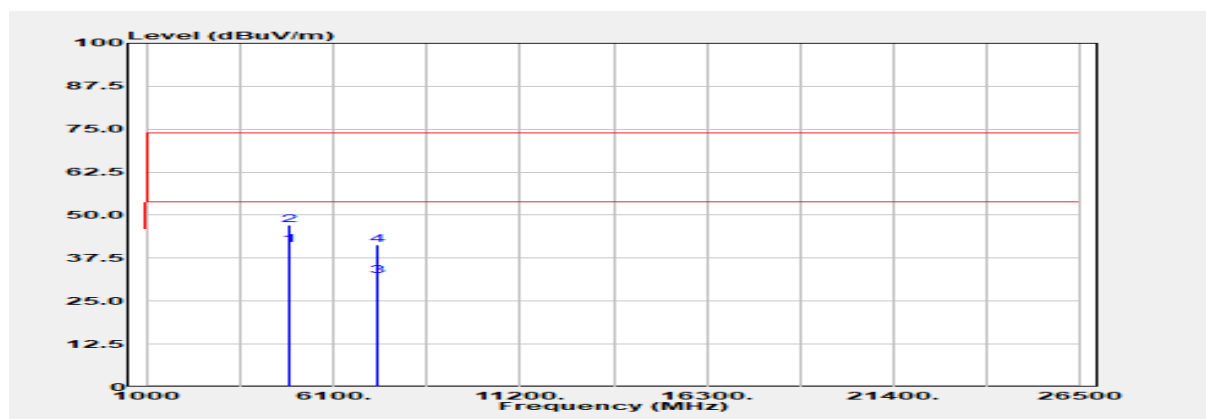
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	38.16	3.31	41.47	54.00	-12.53
4882.000	Peak	43.77	3.31	47.08	74.00	-26.92
7323.000	Average	24.59	7.67	32.26	54.00	-21.74
7323.000	Peak	33.57	7.67	41.24	74.00	-32.76

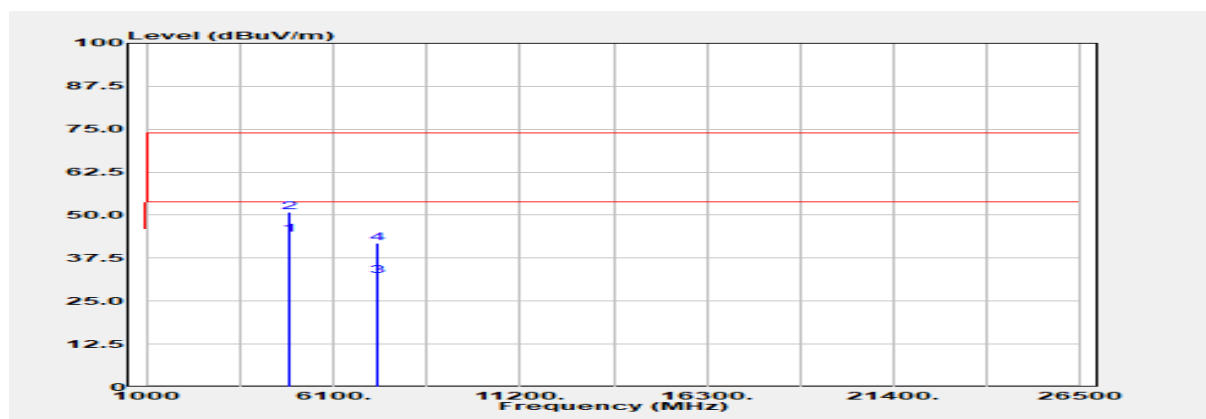
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	41.06	3.31	44.37	54.00	-9.63
4882.000	Peak	47.57	3.31	50.89	74.00	-23.11
7323.000	Average	24.57	7.67	32.24	54.00	-21.76
7323.000	Peak	34.06	7.67	41.73	74.00	-32.27

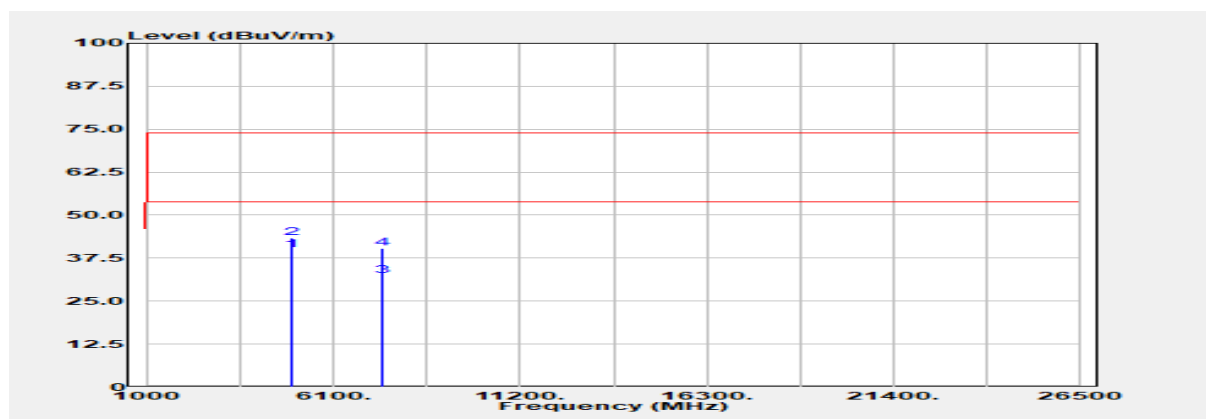
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	36.54	3.42	39.96	54.00	-14.04
4960.000	Peak	39.88	3.42	43.30	74.00	-30.70
7440.000	Average	24.19	8.11	32.30	54.00	-21.70
7440.000	Peak	32.27	8.11	40.38	74.00	-33.62

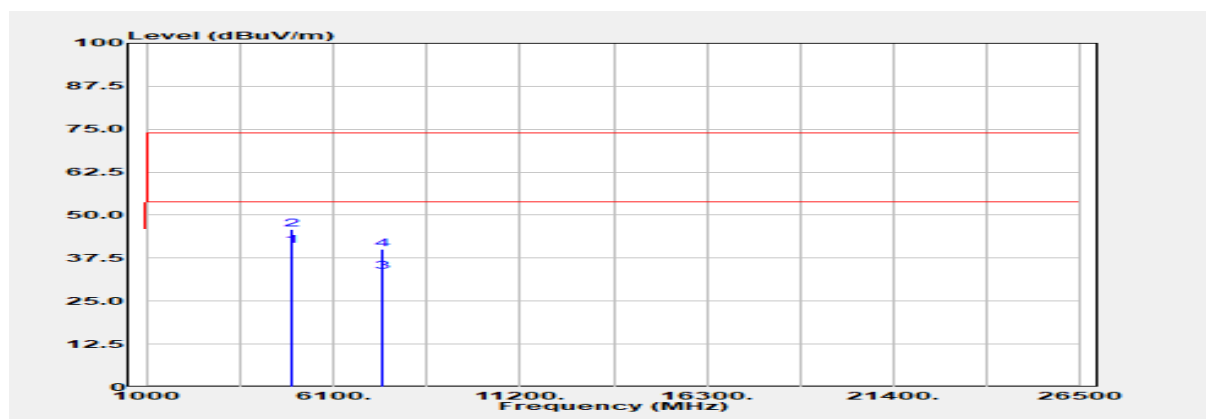
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	37.69	3.42	41.11	54.00	-12.89
4960.000	Peak	42.41	3.42	45.83	74.00	-28.17
7440.000	Average	25.46	8.11	33.57	54.00	-20.43
7440.000	Peak	32.09	8.11	40.20	74.00	-33.80

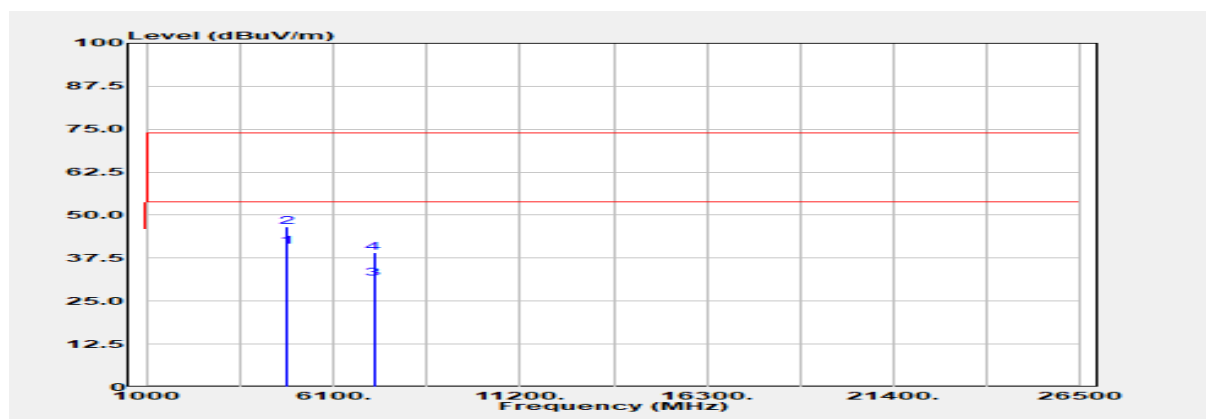
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Report Number :E2/2021/70079
Operation Mode :BT EDR
Test Frequency :2402 MHz
Test Mode :TX CH LOW
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	37.70	3.14	40.84	54.00	-13.16
4804.000	Peak	43.39	3.14	46.53	74.00	-27.47
7206.000	Average	24.30	7.22	31.51	54.00	-22.49
7206.000	Peak	31.91	7.22	39.13	74.00	-34.87

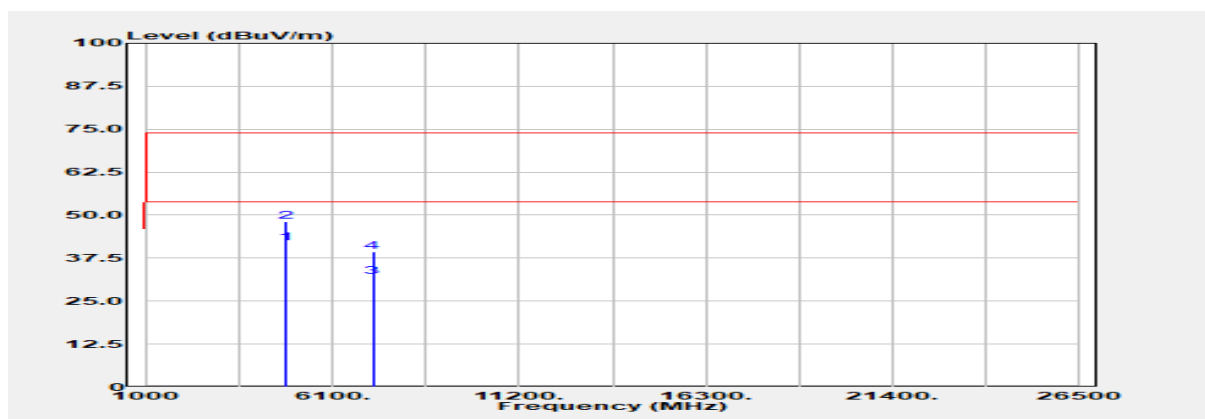
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Report Number :E2/2021/70079
Operation Mode :BT EDR
Test Frequency :2402 MHz
Test Mode :TX CH LOW
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	38.66	3.14	41.80	54.00	-12.20
4804.000	Peak	44.90	3.14	48.04	74.00	-25.96
7206.000	Average	24.74	7.22	31.96	54.00	-22.04
7206.000	Peak	32.15	7.22	39.37	74.00	-34.63

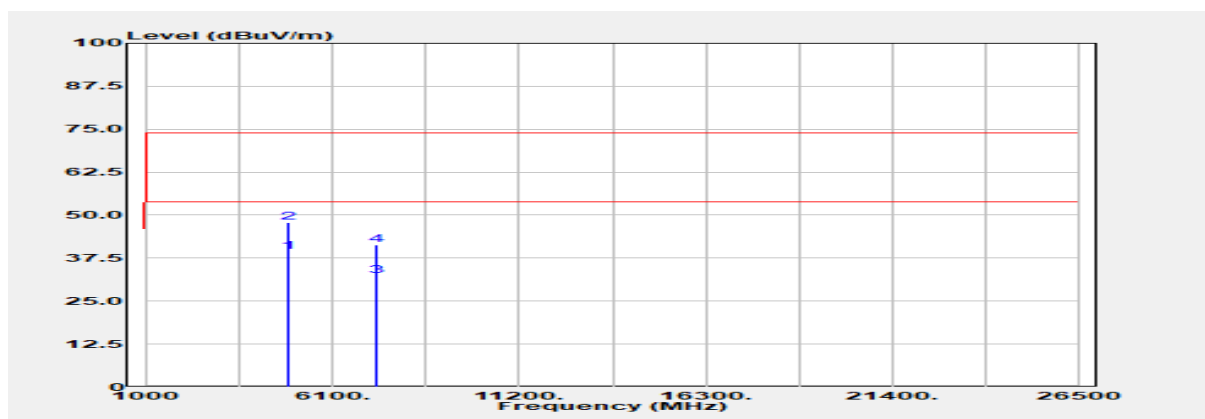
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Report Number :E2/2021/70079
Operation Mode :BT EDR
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	36.15	3.31	39.46	54.00	-14.54
4882.000	Peak	44.43	3.31	47.75	74.00	-26.25
7323.000	Average	24.55	7.67	32.21	54.00	-21.79
7323.000	Peak	33.79	7.67	41.46	74.00	-32.54

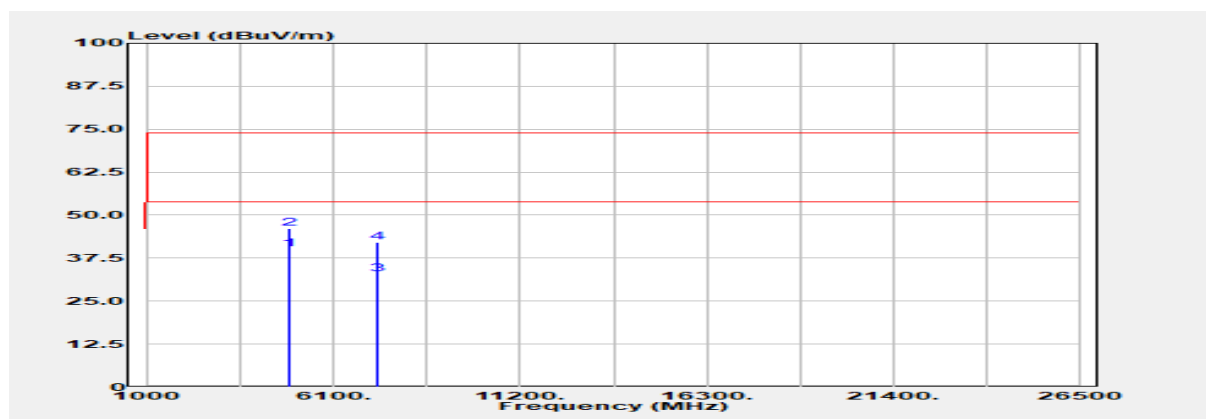
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Report Number :E2/2021/70079
Operation Mode :BT EDR
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.000	Average	36.87	3.31	40.18	54.00	-13.82
4882.000	Peak	42.91	3.31	46.22	74.00	-27.78
7323.000	Average	25.20	7.67	32.86	54.00	-21.14
7323.000	Peak	34.41	7.67	42.07	74.00	-31.93

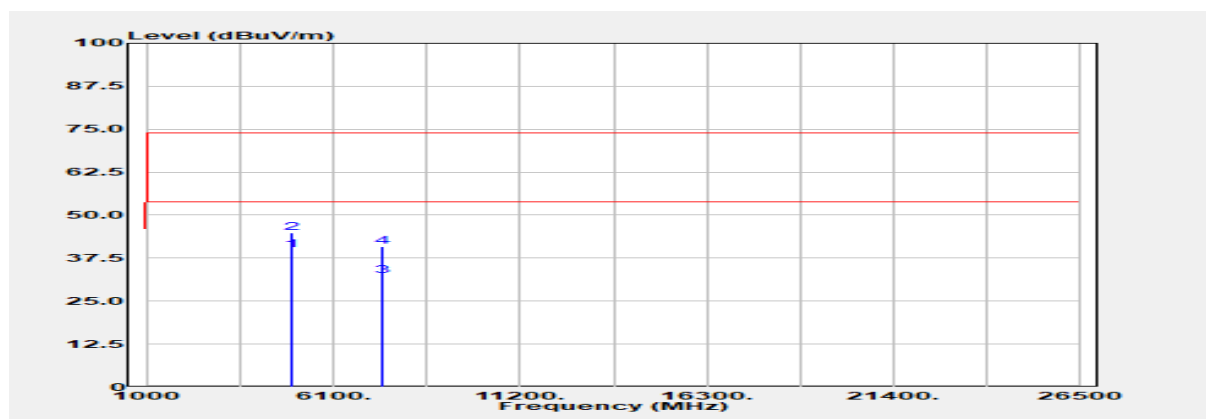
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Report Number :E2/2021/70079
Operation Mode :BT EDR
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	36.37	3.42	39.79	54.00	-14.21
4960.000	Peak	41.35	3.42	44.77	74.00	-29.23
7440.000	Average	24.14	8.11	32.25	54.00	-21.75
7440.000	Peak	32.77	8.11	40.88	74.00	-33.12

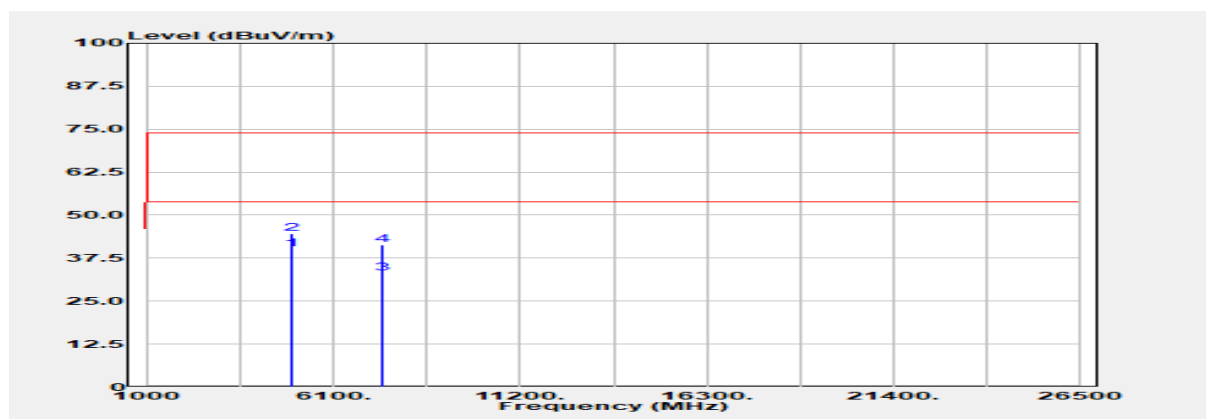
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Report Number :E2/2021/70079
Operation Mode :BT EDR
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-23
Temp./Humi. :19.8/71
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	36.80	3.42	40.22	54.00	-13.78
4960.000	Peak	41.31	3.42	44.73	74.00	-29.27
7440.000	Average	25.07	8.11	33.18	54.00	-20.83
7440.000	Peak	33.15	8.11	41.26	74.00	-32.74

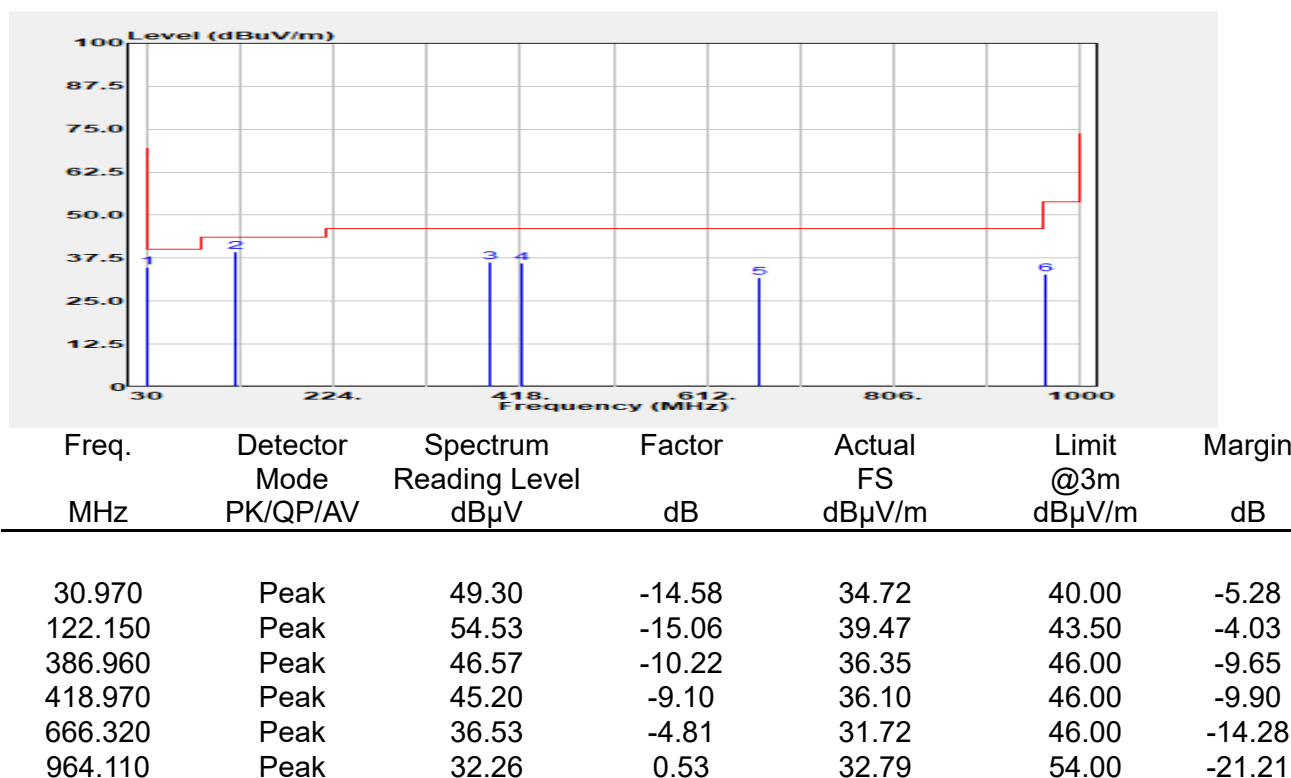
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10.4.5 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Report Number	:E2/2021/70079	Test Site	:SAC G
Operation Mode	:BT BR	Test Date	:2021-07-26
Test Frequency	:2441 MHz	Temp./Humi.	:19.3/70
Test Mode	:RX CH MID	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Jack Tseng



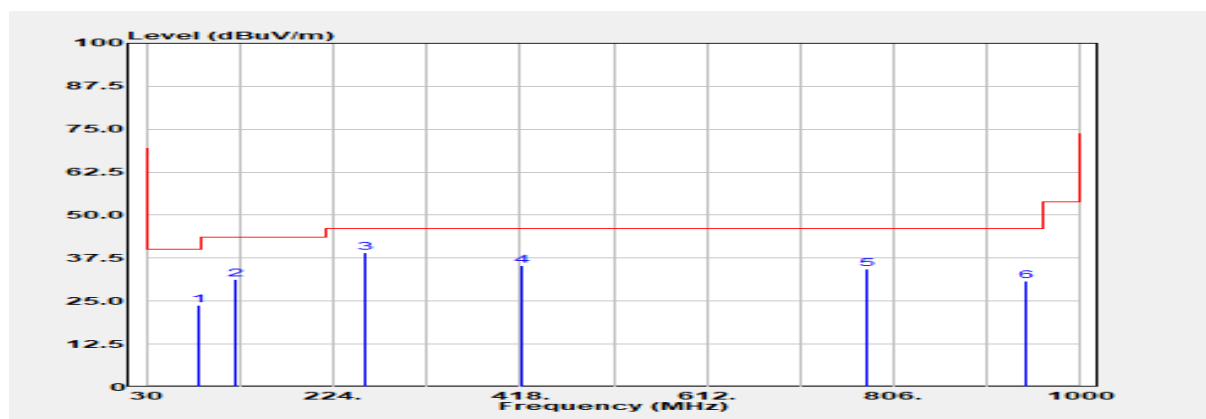
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2441 MHz
Test Mode :RX CH MID
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. :19.3/70
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
84.320	Peak	41.89	-18.10	23.78	40.00	-16.22
122.150	Peak	46.30	-15.06	31.24	43.50	-12.26
257.950	Peak	53.20	-14.00	39.20	46.00	-6.80
418.970	Peak	44.48	-9.10	35.38	46.00	-10.62
777.870	Peak	36.80	-2.52	34.28	46.00	-11.72
943.740	Peak	30.69	0.08	30.77	46.00	-15.23

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10.4.6 接收機場強輻射之量測結果(1GHz 以上) (最差模式)

Report Number :E2/2021/70079

Test Site :SAC G

Operation Mode :BT BR

Test Date :2021-07-26

Test Frequency :2441 MHz

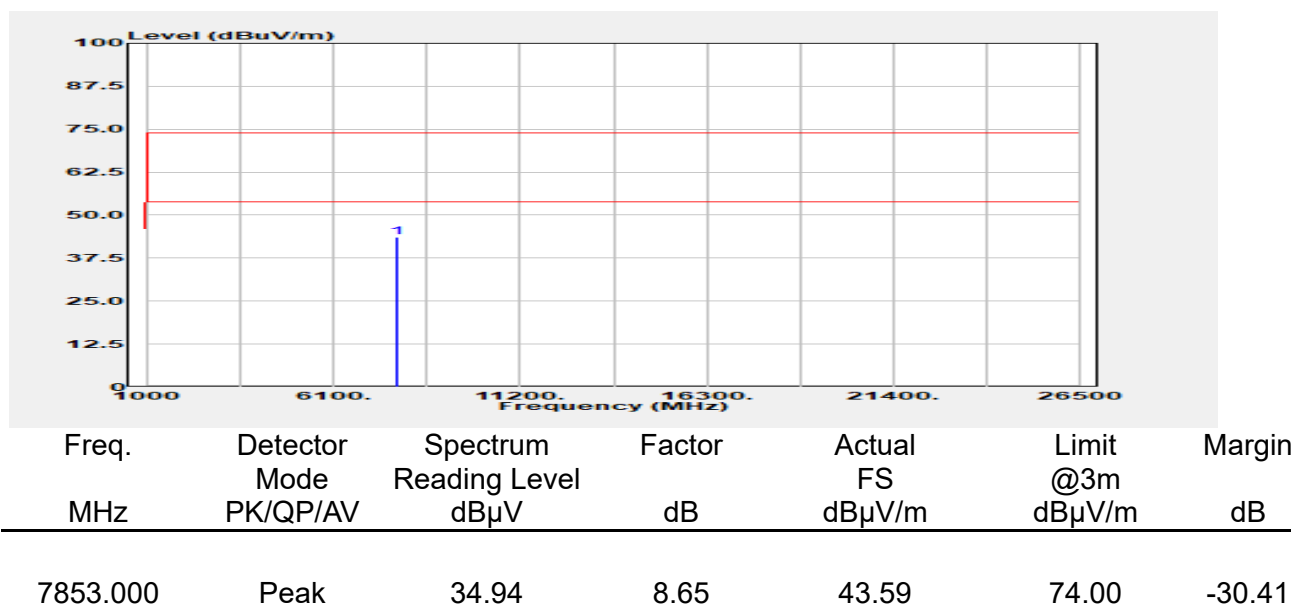
Temp./Humi. : 19.3/70

Test Mode :RX CH MID

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



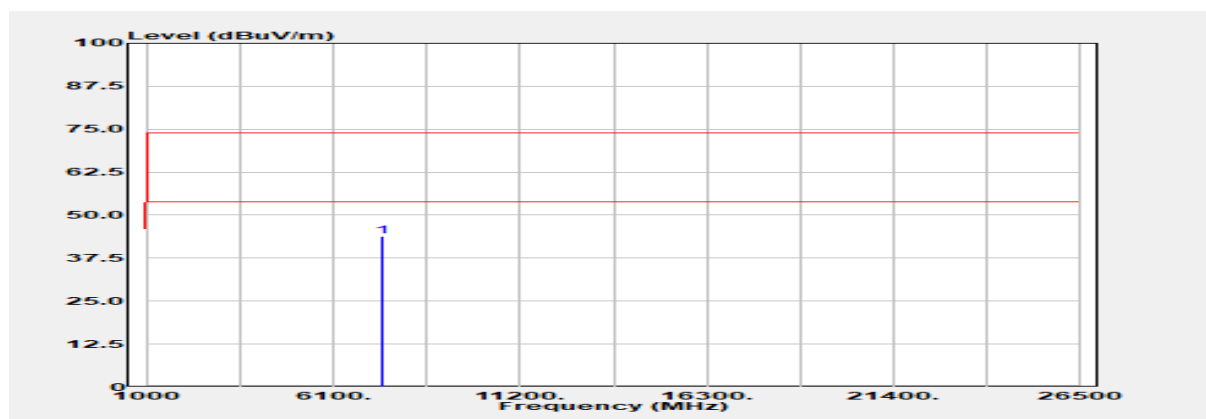
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Report Number :E2/2021/70079
Operation Mode :BT BR
Test Frequency :2441 MHz
Test Mode :RX CH MID
EUT Pol :H Plane

Test Site :SAC G
Test Date :2021-07-26
Temp./Humi. : 19.3/70
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7412.000	Peak	35.65	8.29	43.93	74.00	-30.07

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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 (A)之規定，操作於 2400-2483.5 MHz，並至少使用 75 個跳頻頻道之跳頻系統，其峰值輸出功率不得大於 1 Watt。除前項 4.10.1.2 (A) 以外，依 4.10.1.6(2)(B)其他限制事項 4.10.1.6(1)(A)，所有操作於 2400-2483.5 兆赫(MHz)之跳頻系統：0.125 瓦(W)(含)以下，且其所使用天線之增益不可大於 6dBi；若使用大於 6dBi 增益之天線，則其輸出峰值功率相對需衰減天線增益所增加之量(單位為 dB)。

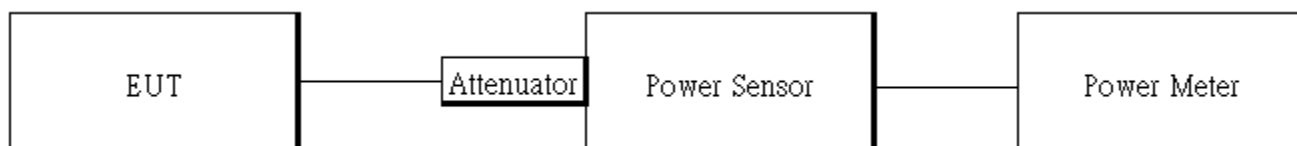
依據NCC低功率射頻器材技術規範4.10.1.3之規定，進行固定式點對點操作時，應符合下列情現之一：依據NCC低功率射頻器材技術規範4.10.1.3 (1)之規定，操作頻率為2400-2483.5 兆赫(MHz)者，其發射天線之方向性增益超過6dBi，每超過3dB應降低1dB之最大傳導輸出功率。

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。

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 輸出功率之測試配置



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11.3 輸出功率之量測結果

1M BR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	59	9.84	9.638	1000
Mid	2441	59	9.69	9.311	1000
High	2480	59	9.54	8.995	1000

1M BR mode (Average):

CH	Freq. (MHz)	Power set	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	59	9.75	9.445	1000
Mid	2441	59	9.63	9.187	1000
High	2480	59	9.36	8.633	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	59	9.79	9.528	125
Mid	2441	59	9.62	9.162	125
High	2480	59	9.52	8.954	125

2M EDR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	59	7.53	5.665	125
Mid	2441	59	7.36	5.447	125
High	2480	59	7.23	5.287	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	59	9.95	9.886	125
Mid	2441	59	9.83	9.616	125
High	2480	59	9.72	9.376	125

3M EDR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	59	7.65	5.824	125
Mid	2441	59	7.46	5.574	125
High	2480	59	7.33	5.410	125

NOTE: cable loss as 10.5dB that offsets in the spectrum

*Note: Max. Output include tune up tolerance Power measured by using average detector.

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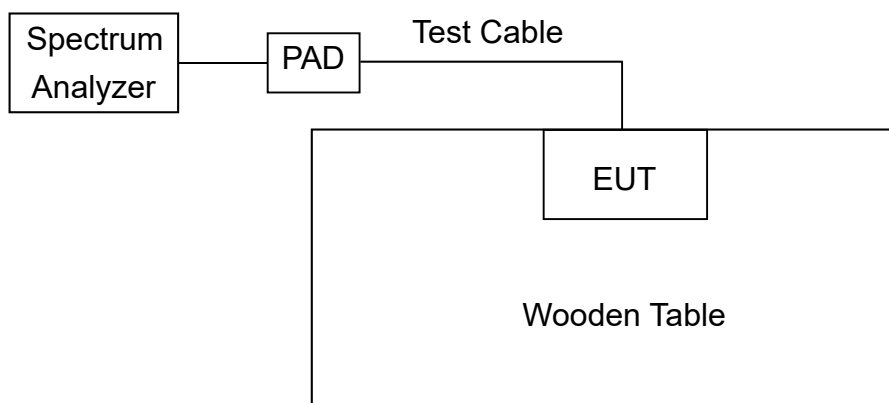
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12 帶外發射限制

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，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 100 千赫內的射頻功率，須衰減 20 分貝(dB)。

12.2 開放頻帶邊緣之測試配置



12.3 開放頻帶邊緣之量測結果

發射限制測試值 CH-1(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-79(上邊緣頻帶): 在 2483.5MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

請參考附圖。

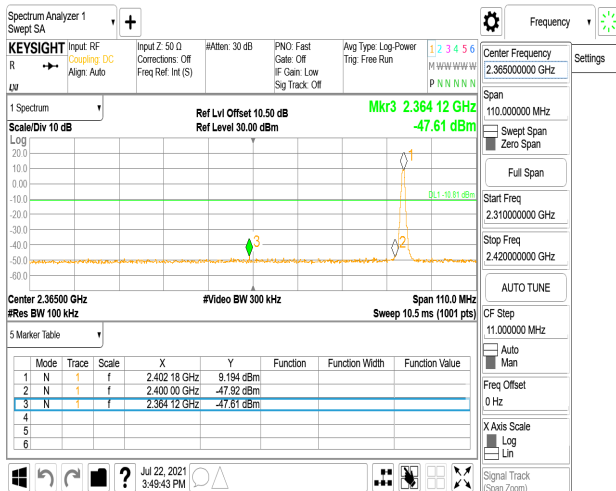
註: 此裝置有 EDR 功能，比較所有調變測試值後附上最差模式數據。

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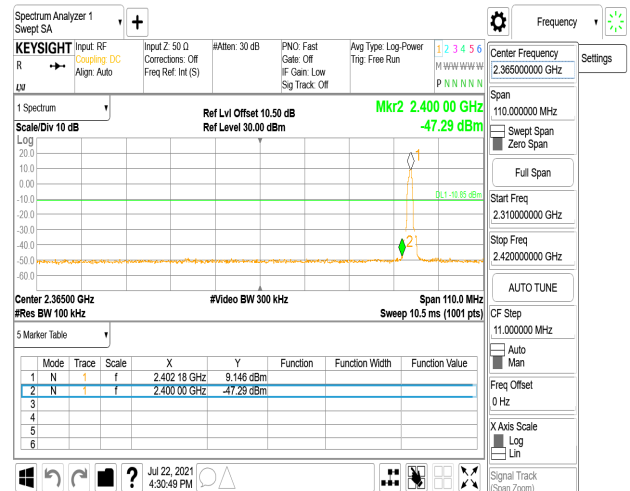
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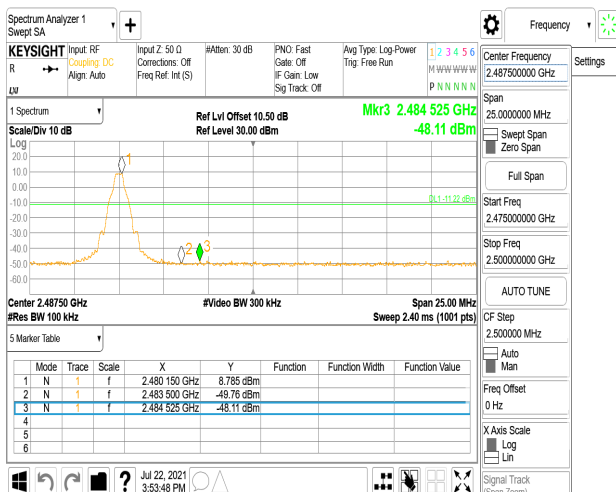
Non-hopping Bandedge_GFSK_1M_DH5_2402MHz



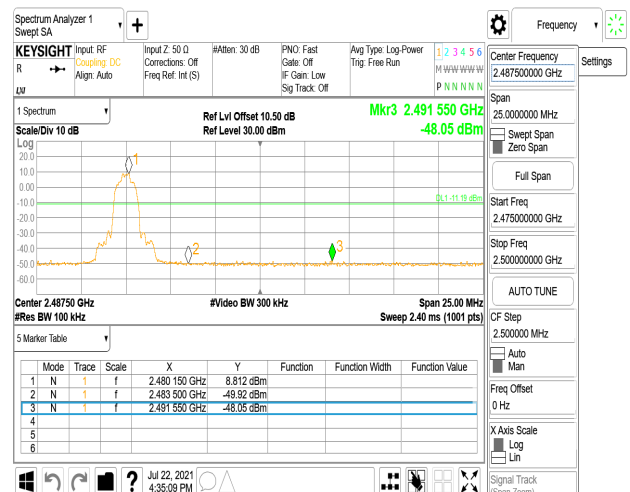
Non-hopping Bandedge_8DPSK_3M_DH5_2402MHz



Non-hopping Bandedge_GFSK_1M_DH5_2480MHz



Non-hopping Bandedge_8DPSK_3M_DH5_2480MHz

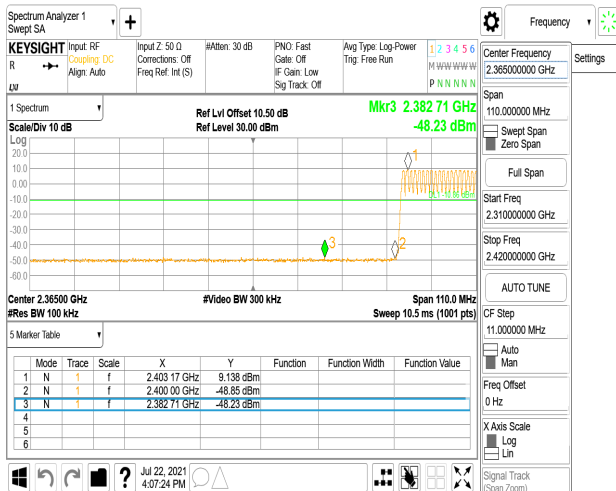


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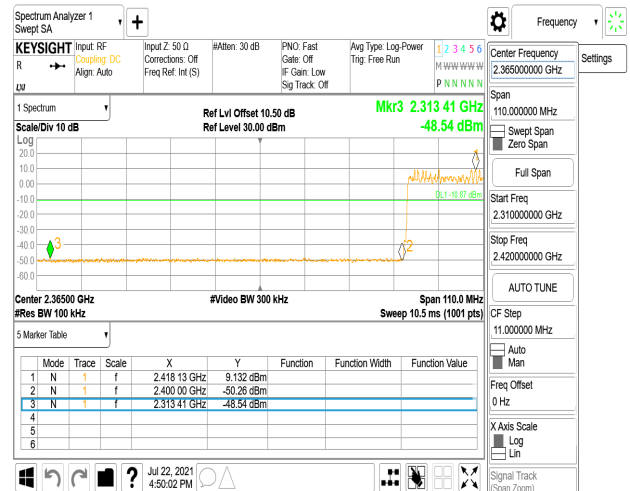
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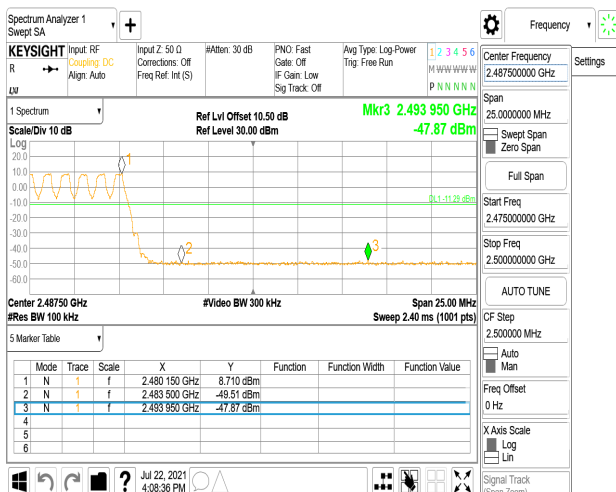
Hopping Band Edge_GFSK_1M_DH5_2402MHz



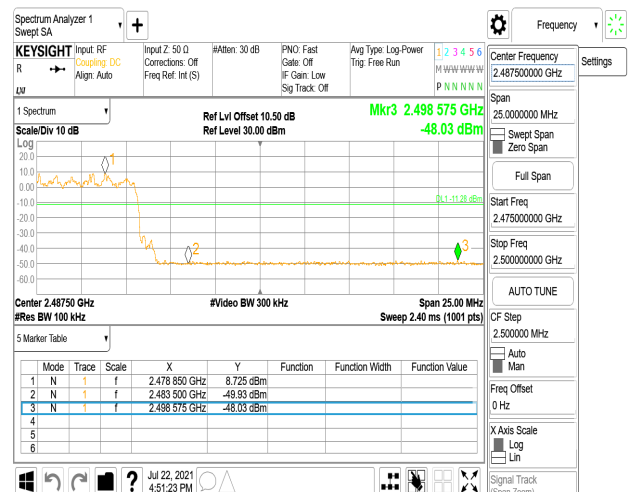
Hopping Band Edge_8DPSK_3M_DH5_2402MHz



Hopping Band Edge_GFSK_1M_DH5_2480MHz



Hopping Band Edge_8DPSK_3M_DH5_2480MHz

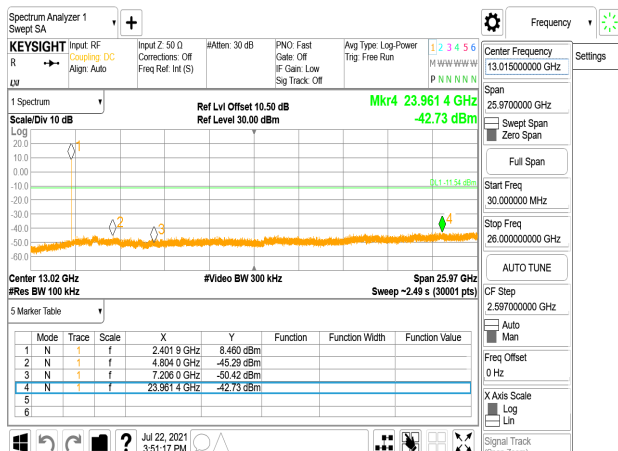


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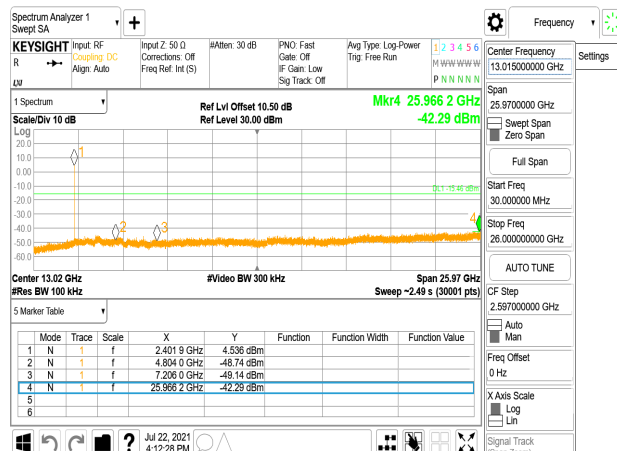
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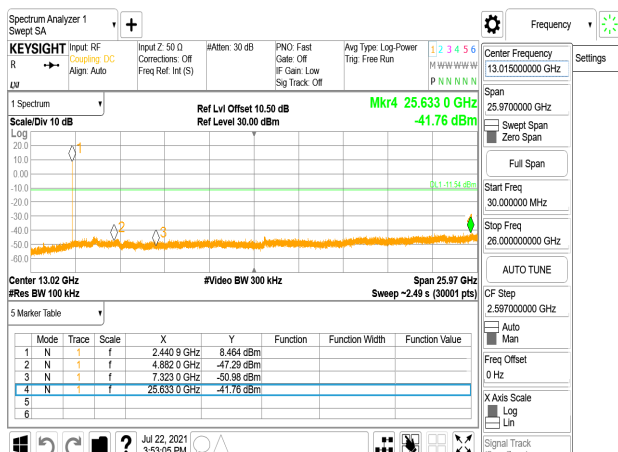
Spurious Emission_GFSK_1M_DH5_2402MHz



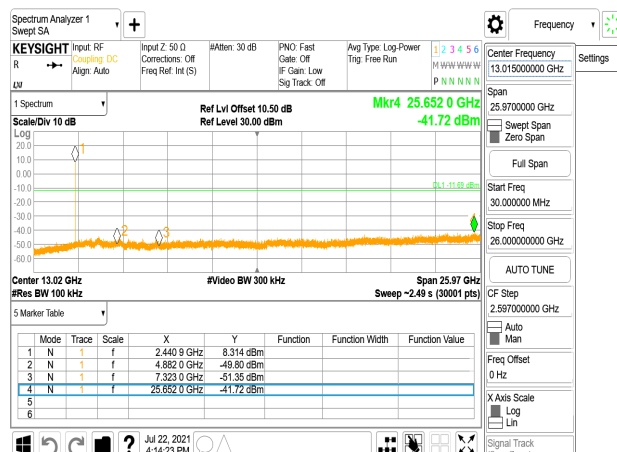
Spurious Emission_π/4 DQPSK_2M_DH5_2402MHz



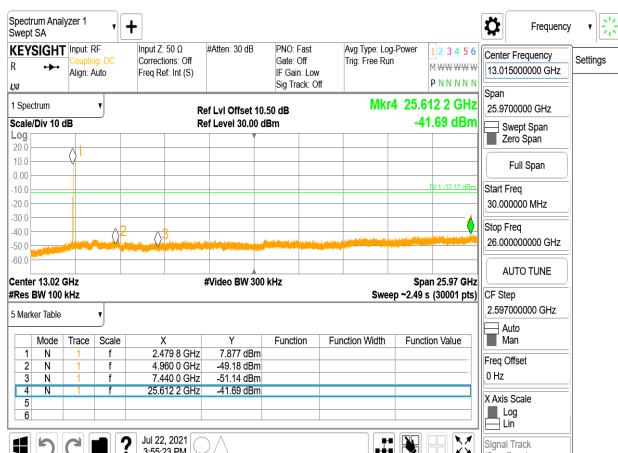
Spurious Emission_GFSK_1M_DH5_2441MHz



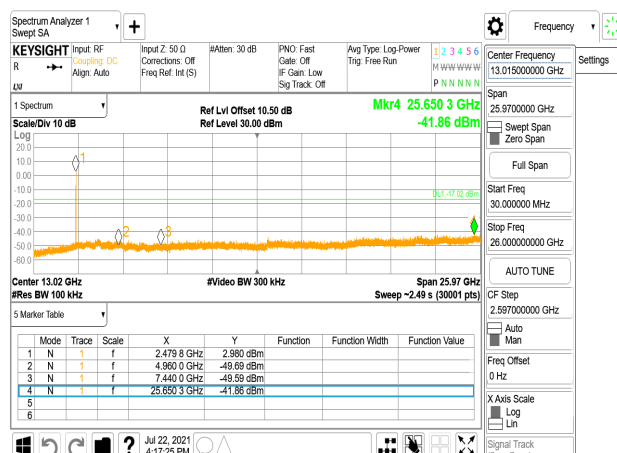
Spurious Emission_π/4 DQPSK_2M_DH5_2441MHz



Spurious Emission_GFSK_1M_DH5_2480MHz



Spurious Emission_π/4 DQPSK_2M_DH5_2480MHz



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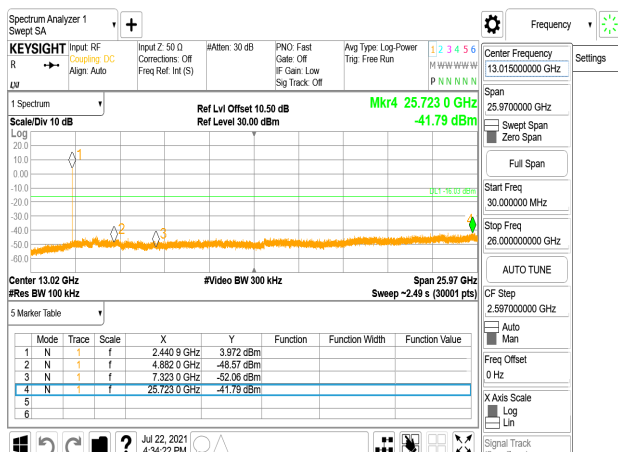
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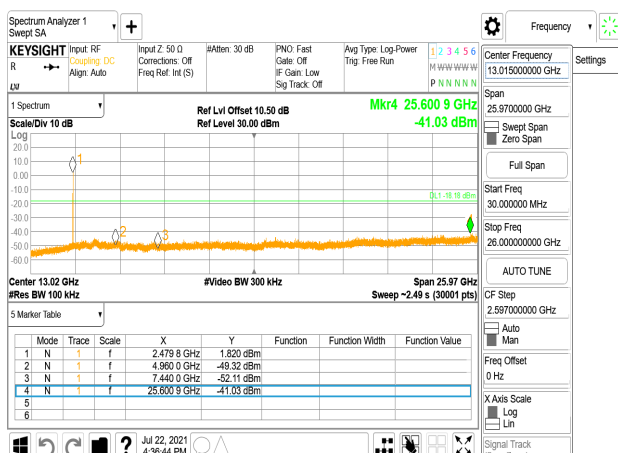
Spurious Emission_8DPSK_3M_DH5_2402MHz



Spurious Emission_8DPSK_3M_DH5_2441MHz



Spurious Emission_8DPSK_3M_DH5_2480MHz



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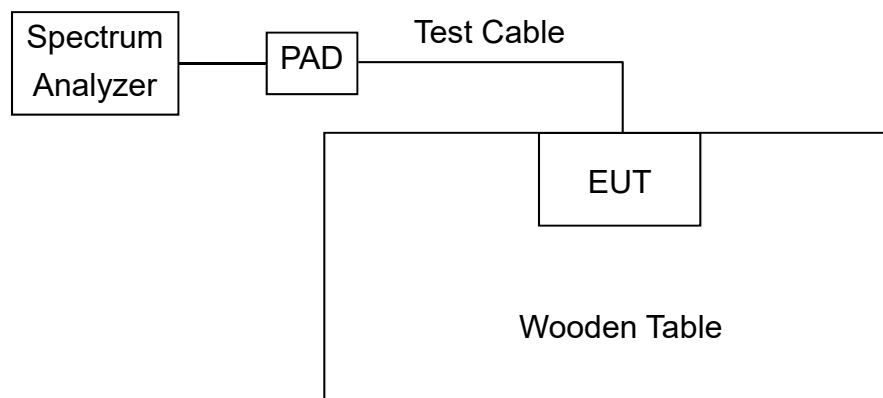
13 20dB 頻寬之要求

13.1 適用標準

NCC 低功率射頻器材技術規範 4.10.1.6(1)(A) 跳頻系統之載波頻率頻道間隔不得低於 25 千赫 (kHz)或跳頻頻道之 20dB 頻寬，兩者取較寬者。但操作頻率為 2400-2483.5 兆赫(MHz)頻帶且輸出功率不大於 125 毫瓦(mW)跳頻系統，其載波頻率頻道間隔不得小於 25 千赫 (kHz)或跳頻頻道 20dB 頻寬之三分之二，兩者取較寬者。系統之跳頻頻道應依虛擬亂數排列，在各頻率之跳頻頻道上跳躍。每一發射機必須均等的使用每一頻率。系統接收機應具有與發射機跳躍頻道頻寬相匹配之輸入頻寬，且應隨所發射之信號同步偏移接收頻率。

13.2 測試配置

圖 4: 發射頻寬之測試配置



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13.3 量測結果

GFSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.9651	0.64
Mid	0.9645	0.64
High	0.9663	0.64

 $\pi/4$ -DQPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.234	0.82
Mid	1.235	0.82
High	1.236	0.82

8-DPSK

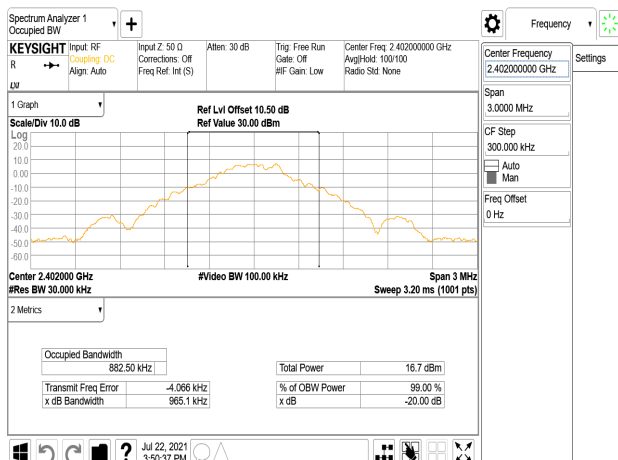
CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.276	0.85
Mid	1.275	0.85
High	1.275	0.85

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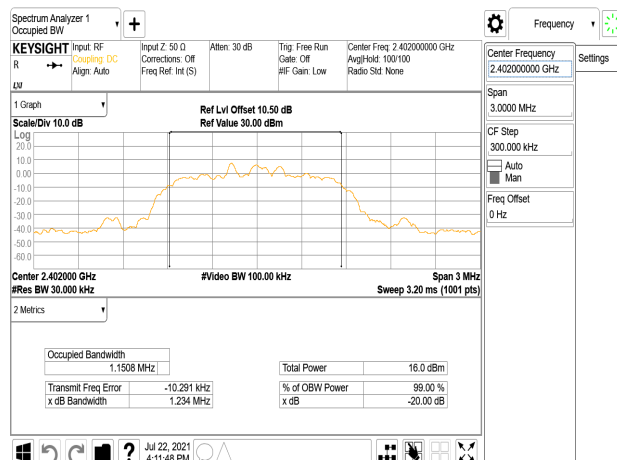
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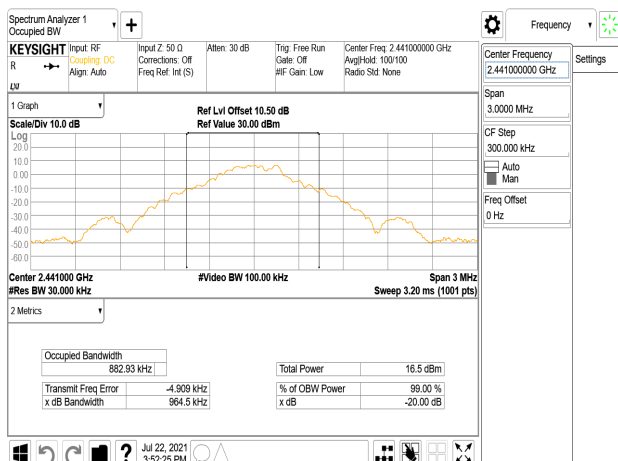
OBW 20dB_GFSK_1M_DH5_2402MHz



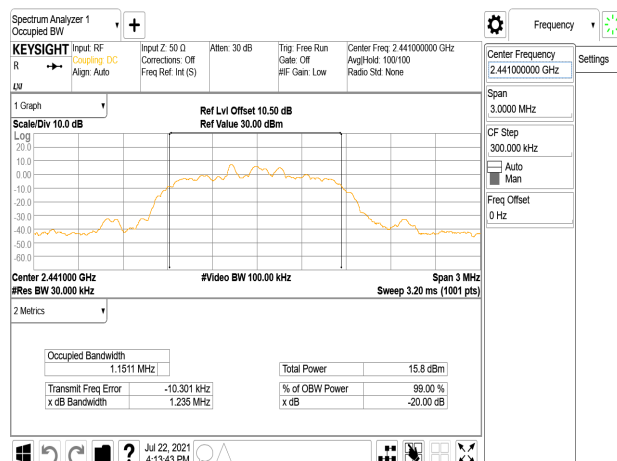
OBW 20dB_π/4 DQPSK_2M_DH5_2402MHz



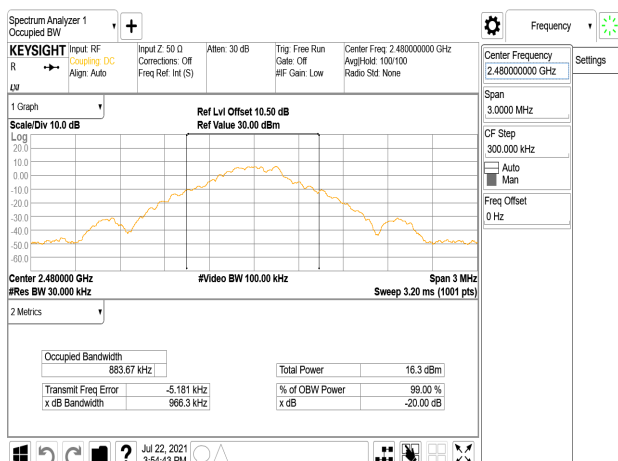
OBW 20dB_GFSK_1M_DH5_2441MHz



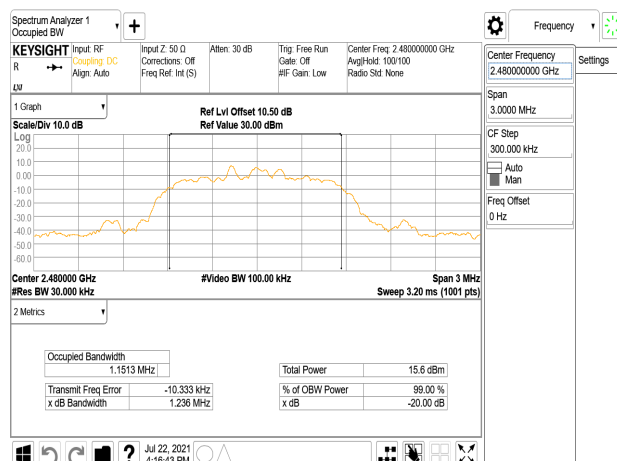
OBW 20dB_π/4 DQPSK_2M_DH5_2441MHz



OBW 20dB_GFSK_1M_DH5_2480MHz



OBW 20dB_π/4 DQPSK_2M_DH5_2480MHz

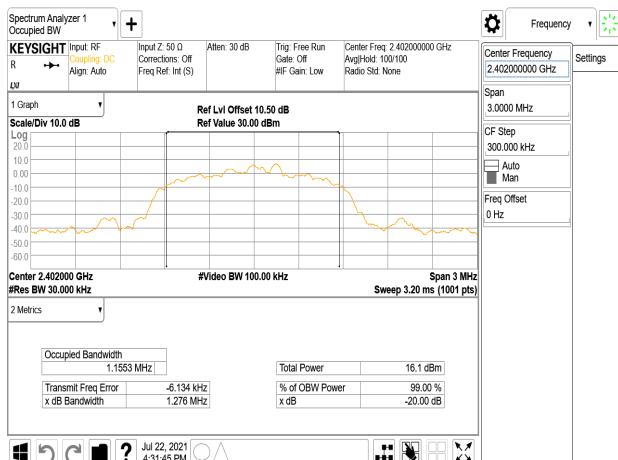


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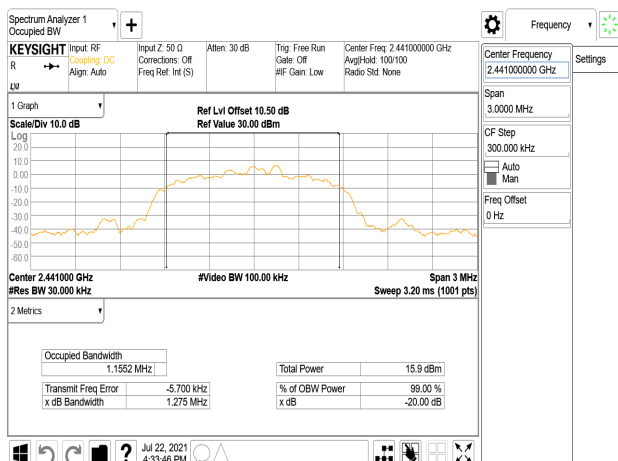
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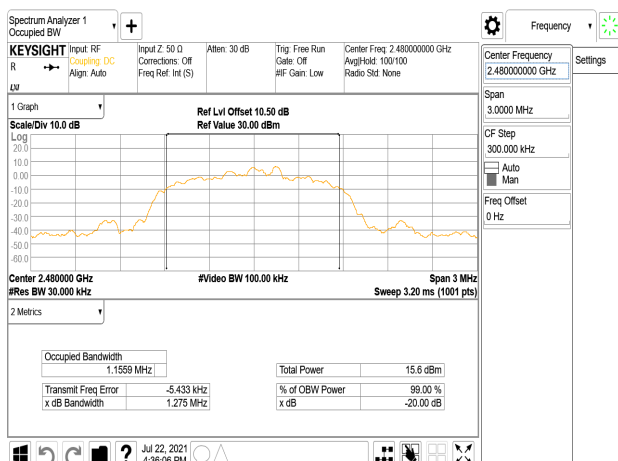
OBW 20dB_8DPSK_3M_DH5_2402MHz



OBW 20dB_8DPSK_3M_DH5_2441MHz



OBW 20dB_8DPSK_3M_DH5_2480MHz



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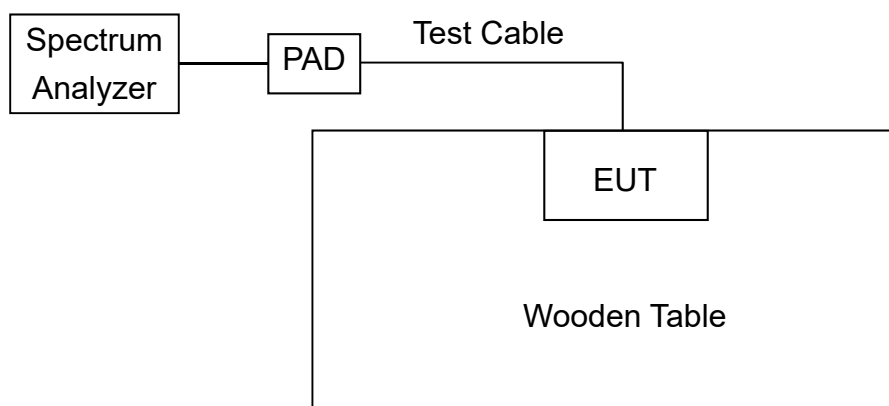
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14 載波頻率間隔之量測

14.1 適用標準

NCC 低功率射頻器材技術規範 4.10.1.6(1)(A) 跳頻系統之載波頻率頻道間隔不得低於 25 千赫 (kHz)或跳頻頻道之 20dB 頻寬，兩者取較寬者。但操作頻率為 2400-2483.5 兆赫(MHz)頻帶且輸出功率不大於 125 毫瓦(mW)跳頻系統，其載波頻率頻道間隔不得小於 25 千赫 (kHz)或跳頻頻道 20dB 頻寬之三分之二，兩者取較寬者。系統之跳頻頻道應依虛擬亂數排列，在各頻率之跳頻頻道上跳躍。每一發射機必須均等的使用每一頻率。系統接收機應具有與發射機跳躍頻道頻寬相匹配之輸入頻寬，且應隨所發射之信號同步偏移接收頻率。

14.2 量測載波頻率間隔之配置



14.3 載波頻率間隔之量測結果

頻道	載波頻率間隔	最小限制值 (kHz)	
CH Low	1MHz	≥25	≥2/3 X 20dB Bandwidth
CH Mid	1MHz	≥25	≥2/3 X 20dB Bandwidth
Ch High	1MHz	≥25	≥2/3 X 20dB Bandwidth

依據 NCC 低功率射頻器材技術規範 4.10.1 節(6.1.(A))之標準，故取載波頻率間隔之量測值。

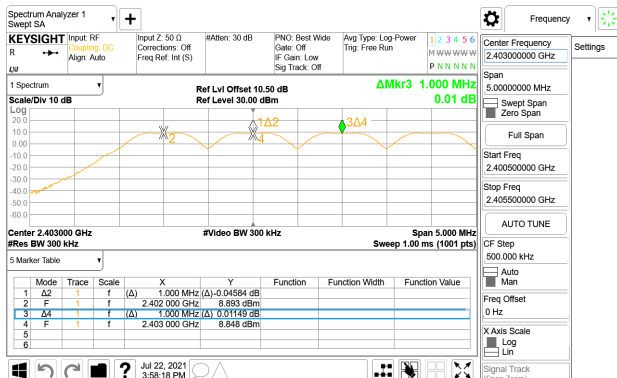
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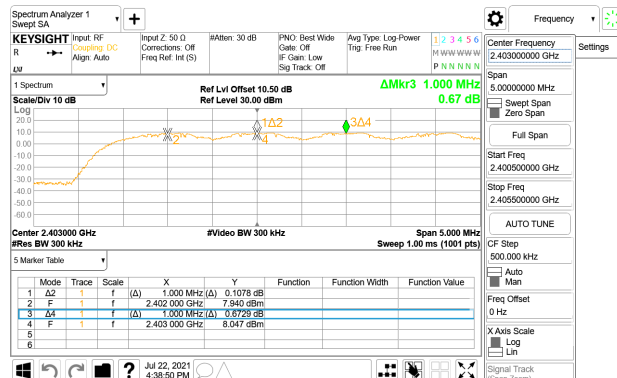
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載波頻率間隔測試值

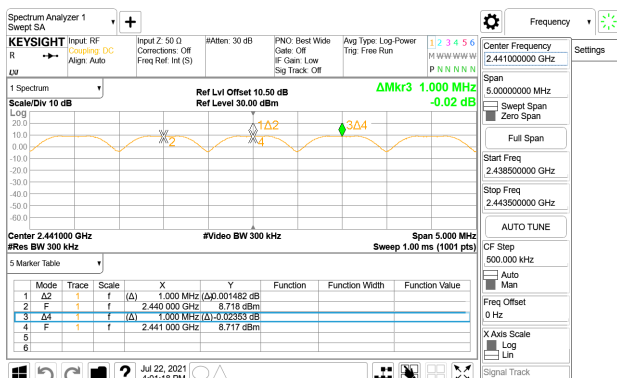
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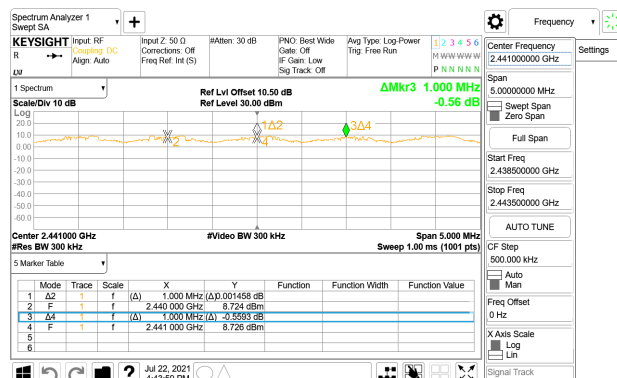
Frequency Separation_8DPSK_3M_DH5_CH0CH1CH2



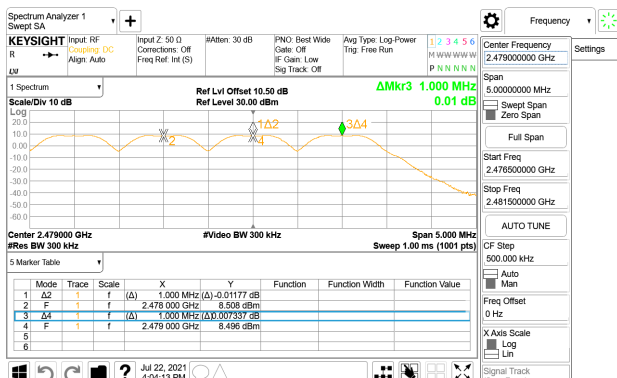
Frequency Separation_GFSK_1M_DH5_CH38CH39CH40



Frequency Separation_8DPSK_3M_DH5_CH38CH39CH40



Frequency Separation_GFSK_1M_DH5_CH76CH77CH78



Frequency Separation_8DPSK_3M_DH5_CH76CH77CH78



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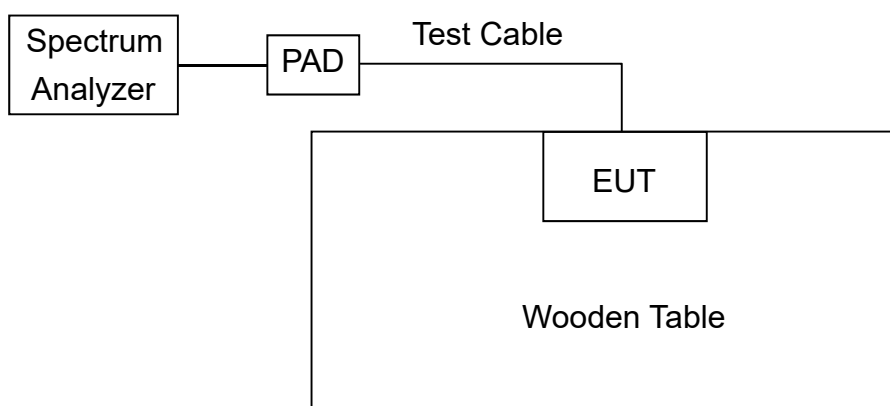
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15 載波頻率佔用週期之量測

15.1 適用標準

NCC 低功率射頻器材技術規範 4.10.1.6(1)(A)(a) 在 0.4 秒乘以跳頻頻道數之週期內，任一頻率佔用之平均時間不得超過 0.4 秒。

15.2 量測物載波頻率佔用週期之配置



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15.3 開放載波頻率佔用週期之量測結果:

GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
Mid	DH1	121.60	400ms	3.00
	DH3	260.80	400ms	1.00
	DH5	307.20	400ms	1.00

 $\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
Mid	2DH1	121.60	400ms	3.00
	2DH3	262.40	400ms	1.00
	2DH5	307.20	400ms	1.00

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
Mid	3DH1	123.20	400ms	3.00
	3DH3	262.40	400ms	1.00
	3DH5	307.20	400ms	1.00

NOTE: cable loss as 10.5dB that offsets in the spectrum

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GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.380	*	(1600/2/79)	*	31.6	=	121.60 (ms)
	DH3 time slot	=	1.630	*	(1600/4/79)	*	31.6	=	260.80 (ms)
	DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20 (ms)

 $\pi/4$ -DQPSK (2Mbps):

CH Mid	2DH1 time slot	=	0.380	*	(1600/2/79)	*	31.6	=	121.60 (ms)
	2DH3 time slot	=	1.640	*	(1600/4/79)	*	31.6	=	262.40 (ms)
	2DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20 (ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot	=	0.385	*	(1600/2/79)	*	31.6	=	123.20 (ms)
	3DH3 time slot	=	1.640	*	(1600/4/79)	*	31.6	=	262.40 (ms)
	3DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20 (ms)

A period time = 0.4 (s) * 79 = 31.6 (s)

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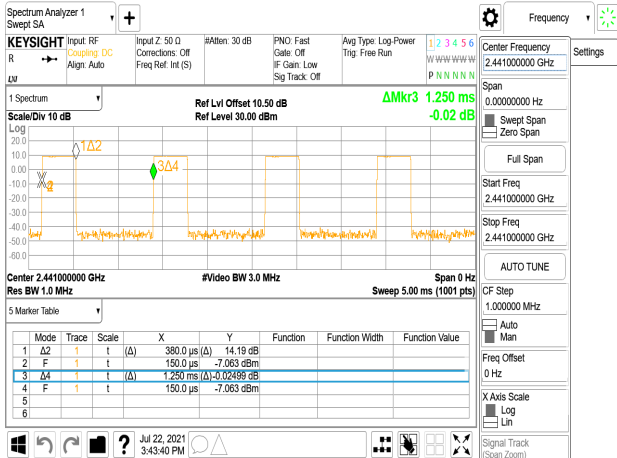
GFSK (1Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	DH5	153.60	400
$\pi/4$ DQPSK (2Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	2DH5	153.60	400
8-DPSK (3Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	3DH5	153.60	400

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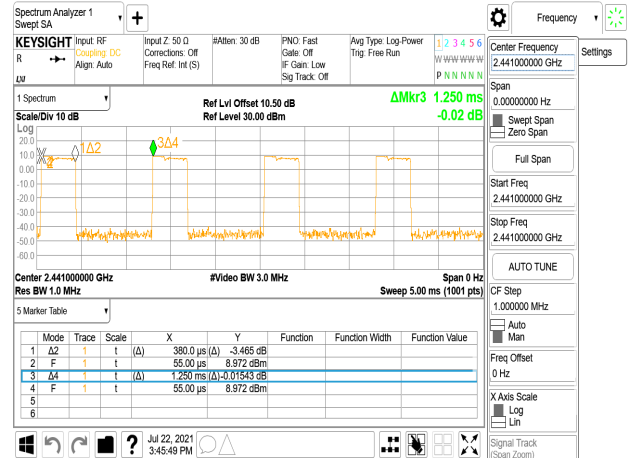
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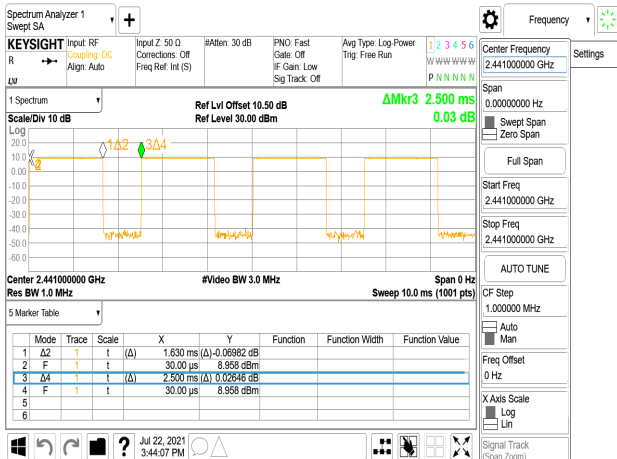
Dwell Time_GFSK_1M_DH1_2441MHz



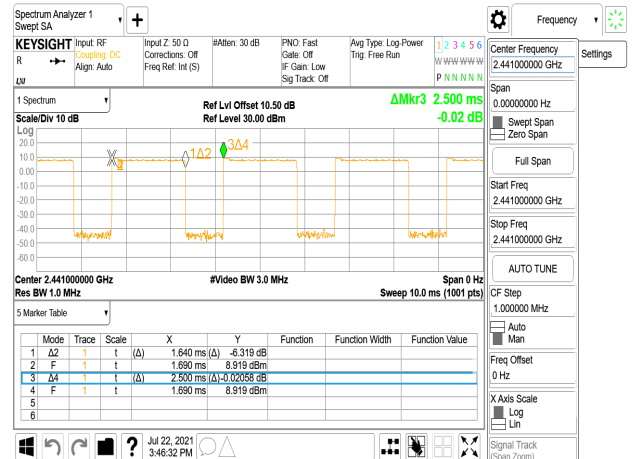
Dwell Time_π/4 DQPSK_2M_DH1_2441MHz



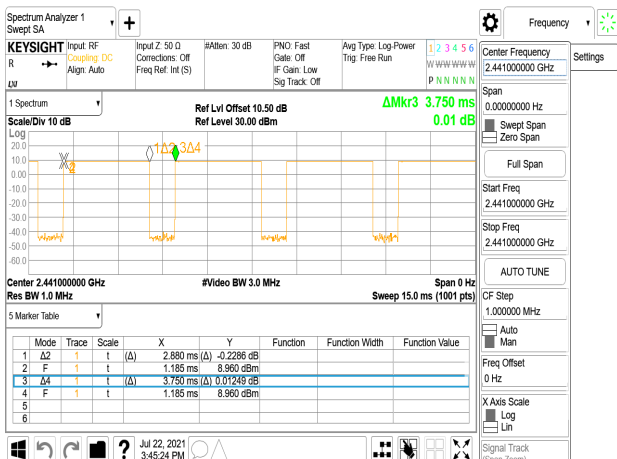
Dwell Time_GFSK_1M_DH3_2441MHz



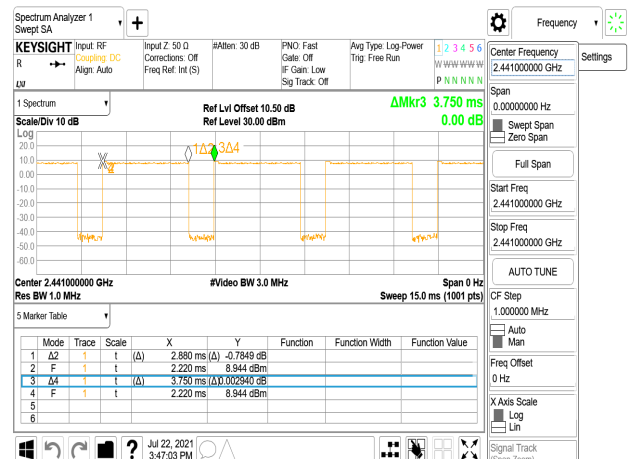
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Dwell Time_GFSK_1M_DH5_2441MHz



Dwell Time_π/4 DQPSK_2M_DH5_2441MHz

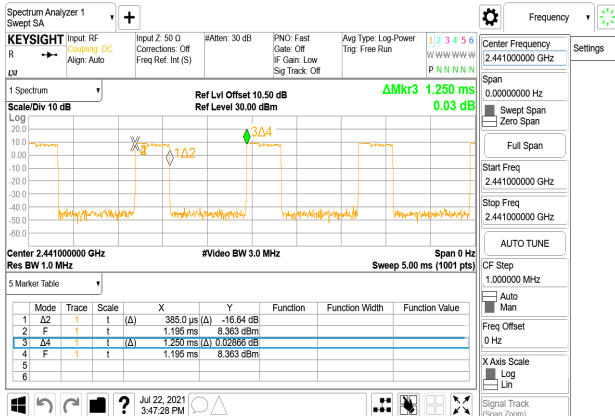


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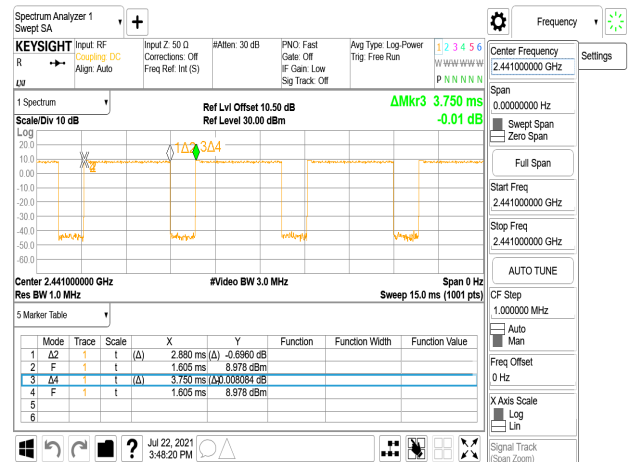
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Dwell Time_8DPSK_3M_DH1_2441MHz



Dwell Time_8DPSK_3M_DH5_2441MHz



Dwell Time_8DPSK_3M_DH3_2441MHz



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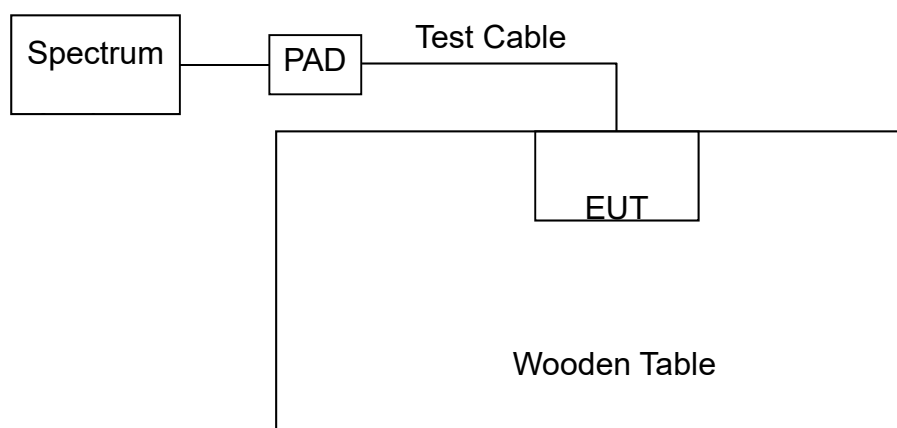
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16 頻道數之量測

16.1 適用標準

依據NCC低功率射頻器材技術規範4.10.1.6(1)(A)(a)規定，操作於2400 MHz～2483.5 MHz之展頻跳頻系統，須使用至少15 個無重疊的頻道，在0.4 秒乘以跳頻頻道數之週期內，任一頻率占用之平均時間應小於或等於0.4 秒。應使用智慧型跳頻技術，以避免占用於特定跳頻頻道。

16.2 量測頻道數之配置



16.3 頻道數之量測結果

頻道數	限制值 (CH)	量測值 (CH)	結果
	≥15 for EDR ≥75 for BR	79	Pass

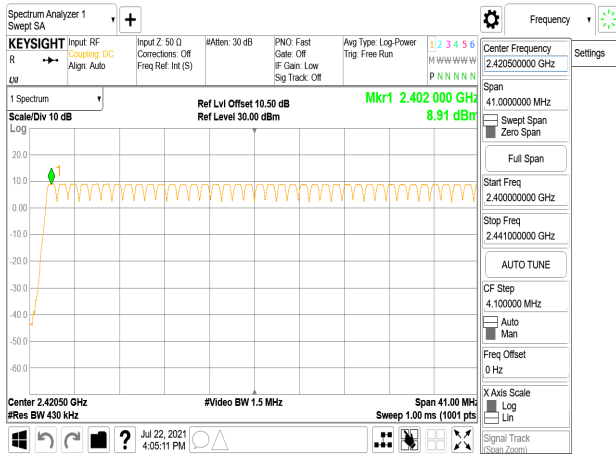
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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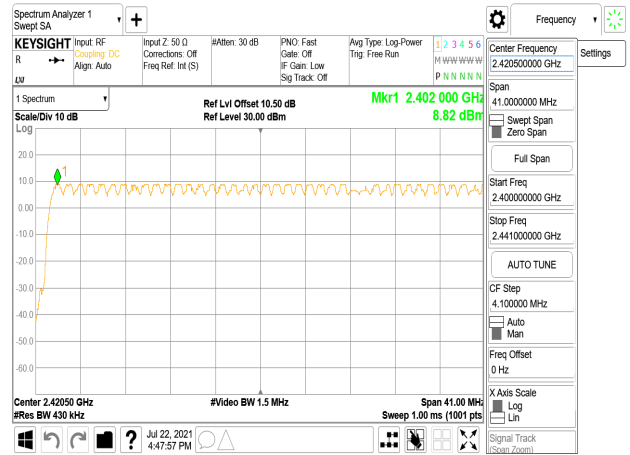
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頻道數之量測值

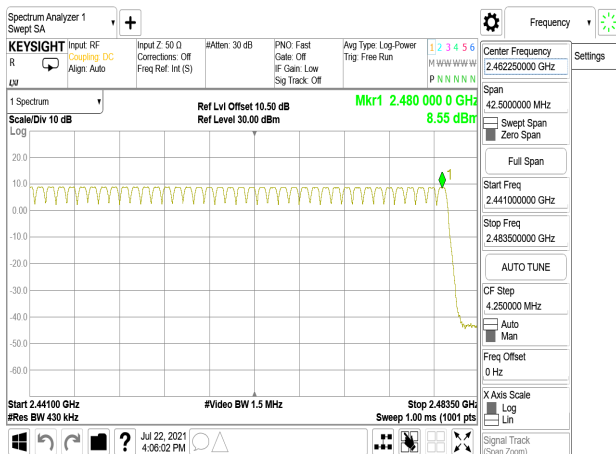
Hopping Frequency_GFSK_1M_DH5_2400-2441



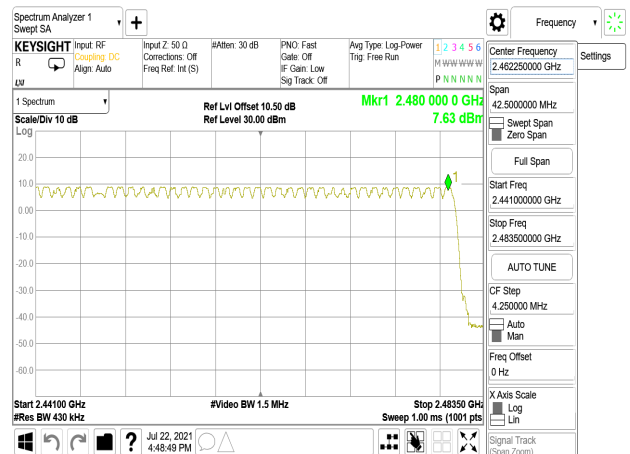
Hopping Frequency_8DPSK_3M_DH5_2400-2441



Hopping Frequency_GFSK_1M_DH5_2441-2480



Hopping Frequency_8DPSK_3M_DH5_2441-2480



~ End of Report ~

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