

低功率射頻電機試驗報告

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.
產品名稱	Sesh Evo
廠牌	Skullcandy
型號	S2TVW
發射功率	6.87 dBm (Peak)
工作頻率	2402MHz – 2480MHz
調變方式	BT Dual mode LE (GFSK)
法規	LP0002, 3.10.1節

實驗室資訊

台灣檢驗科技股份有限公司 射頻實驗中心

新北市新北產業園區五工路134號

認證有效期間：107年06月14日起至110年06月13日止

試驗件收樣日期 民國109年05月27日

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報告發行日期 民國109年07月15日

黃威豪

報告簽署人
黃威豪 簽章

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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2020/50118	Rev.00	Original.	Jul. 15, 2020	Revised By: Susan Lin

Note:

- 1、免責聲明
天線資訊由報告申請人提供，此報告之測試結果僅適用實際收取的樣品。
- 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。
- 3、測試報告 E2/2020/50115 之電源線傳導干擾及 Fully system 場強輻射測試數據，沿用於此報告中。

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測試標準

國家通訊傳播委員會低功率射頻電機技術規範

民國 107 年 1 月 10 日版本

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一百零七年一月頒佈之低功率射頻電機技術規範測試。

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。

台灣檢驗科技股份有限公司依低功率射頻電機技術規範審驗要點規範製作測試結果報告，測試結果評判為 合格。

備註：

1. 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。
2. 此份報告未經本公司同意，不得部份摘錄複製使用。

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測試實驗室資料:

實驗室認可登錄 : 中華民國實驗室認證體系

認可編號 : TAF 3702, 認可頻率範圍9kHz ~ 200GHz

認證有效期間 : 107年06月14日起至110年06月13日止

測試場地 : 桃園市龜山區(華亞科技園區)科技一路2號

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

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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	2.586 dB
輻射干擾量測 (3m測距)	水平極化	9kHz - 30MHz	2.3dB
		30-167MHz	4.22dB
		167-500MHz	3.44dB
		0.5-1GHz	3.39dB
		1-18GHz	4.08dB
		18-40GHz	4.08dB
	垂直極化	9kHz - 30MHz	2.3dB
		30-180MHz	3.37dB
		180-417MHz	3.19dB
		0.417-1GHz	3.19dB
		1-18GHz	4.04dB
		18-40GHz	4.04dB
頻率誤差量測	範例一	2.4 GHz	290 Hz
	範例二	5 GHz	724.3 Hz
輸出功率	傳導方式	2.4 GHz	1.3 dB
		5 GHz	1.55 dB
有效輻射功率 (輻射方式)	水平極化	2.4GHz	4.21 dB
		5 GHz	4.62 dB
	垂直極化	2.4 GHz	4.42 dB
		5 GHz	4.74 dB
功率頻譜密度	傳導方式	2.4GHz	1.3dB
		5GHz	1.67dB
鄰頻道功率量測 (輻射方式)	水平極化	30-167MHz	4.22dB
		167-500MHz	3.44dB
		0.5-1GHz	3.39dB
	垂直極化	30-180MHz	3.37dB
		180-417MHz	3.19dB
		0.417-1GHz	3.19dB

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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目錄

1	一般資料	7
2	適用規範	10
3	受測裝置之系統說明	13
4	量測儀器設備	14
5	電源線傳導干擾之量測	16
6	場強輻射之量測	21
7	天線增益之要求	38
8	發射頻寬之要求	39
9	輸出峰值功率之量測	41
10	開放頻帶邊緣100KHZ頻寬內之限制	43
11	功率密度之量測	50

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1 一般資料

1.1 產品描述

產品名稱	Sesh Evo
型號	S2TVW
產品商標	Skullcandy
Hardware Version	N/A
Software Version	N/A
USB Cable	Model No.: CE-2061B-1-USB, Supplier: Cosonic
使用電源	3.7Vdc from Rechargeable Li-polymer Battery

發射頻帶	2402MHz – 2480MHz
輸出功率	6.87 dBm (Peak)
調變方式	BT Dual mode LE (GFSK)
頻道數	40
天線型式/天線增益	Integral Antenna, Gain: 3.18dBi Model No.: S2TVW, Supplier: SKULLCANDY, INC.

本報告針對藍牙耳機之右耳測試。

本案經申請者切結器材不提供隨貨配件，配件由實驗室提供併同檢驗，產品名稱: Adapter，廠牌: HONG SHAING，型號: MUC-5K。

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1.2 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電機技術規範(LP0002, 107.1.10 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 63.10:2013、FCC CFR 47 15.247 之檢驗法。

低功率射頻電機技術規範3.10節

項次	測試項目	適用規範	測試結果	量測設備	備註
1	場強輻射	低功率射頻電機技術規範 3.10.1.5節	請參閱6.5節	請參閱4.1節	合格
2	電源線傳導干擾	低功率射頻電機技術規範 2.3節	請參閱5.5節	請參閱4.3節	合格
3	天線增益之要求	低功率射頻電機技術規範 3.10.1.3 (1) 節	請參閱7.2節	-----	合格
4	發頻頻寬	低功率射頻電機技術規範 3.10.1.6(2) (A) 節	請參閱8.3節	請參閱4.2節	合格
5	輸出峰值功率	低功率射頻電機技術規範 3.10.1.2(1) (C) 節	請參閱9.3節	請參閱4.2節	合格
6	開放頻帶邊緣之發射	低功率射頻電機技術規範 3.10.1.5節	請參閱10.3節	請參閱4.2節	合格
7	功率密度	低功率射頻電機技術規範 3.10.1.6(2) (B) 節	請參閱11.3節	請參閱4.2節	合格

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*測試模式

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	20	GFSK	1
Fully System				
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE (TX)	0 to 39	0,20,39	GFSK	1
Bluetooth LE (RX)	0 to 39	20	GFSK	1

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1

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2 適用規範

2.1 規範要求 (一般規定)

(1) 傳導之規定

依據NCC低功率射頻電機技術規範之2.3節，以市電為電源之低功率射頻電機，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

(2) 輻射之規定

依據NCC低功率射頻電機技術規範3.10.5之要求，其他開放頻帶外不必要之輻射需符合2.8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	干擾限制 μ V/m	干擾限制 dB μ V/m
0.009 – 0.490	300	2,400/頻率 (kHz)	
0.490 – 1.705	30	24,000/頻率 (kHz)	
1.705 - 30	30	30	
30 - 88	3	100	40.0
88 – 216	3	150	43.5
216 – 960	3	200	46.0
960以上	3	500	54.0

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(3) 禁用頻帶限制之規定

依據NCC低功率射頻電機技術規範2.7節之要求，任何低功率射頻電機之主波皆不得使用下表所列各頻帶內之頻率；低功率射頻電機落於下表所列頻帶內之混附發射，其電場強度必須符合第2.8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低功率射頻電機技術規範2.11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2.8節之發射規定，且不得接收、解調第2.7節所列之頻率。

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2.2 規範要求

依據NCC低功率射頻電機技術規範3.10節 數位調變 (Digitally Modulated) 之要求，使用頻率為2.4 G至2.4835 GHz 及 5.725 GHz 至5.850 GHz

(A) 峰值輸出功率之要求

依據 NCC 低功率射頻電機技術規範 3.10.1.2(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低功率射頻電機技術規範3.10.1.3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低功率射頻電機技術規範3.10.1.3 (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低功率射頻電機技術規範3.10.1.3 (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低功率射頻電機技術規範3.10.1.3 (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低功率射頻電機技術規範3.10.1.5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3.10.1.2(1)(C)之最大傳導輸出功率測量方式者，至少須衰減30 dB。

此外，落於2.7 禁用頻段之輻射發射，應符合2.8 之規定。

(D) 頻寬之要求

依據NCC低功率射頻電機技術規範3.10.1.6(2) (A)規定，6dB之頻寬至少應500kHz。

(E) 功率密度之要求

依據NCC低功率射頻電機技術規範3.10.1.6(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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3 受測裝置之系統說明

裝置名稱	製造者/申請者	型號
* Sesh Evo	SKULLCANDY, INC. / SKULLCANDY, INC.	S2TVW

標記：“*”表欲申請之受測物。

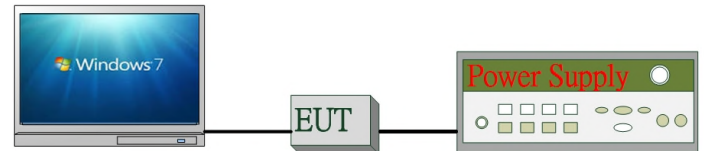
3.1 待測物與測試設備系統圖

3.1.1 量測配置圖

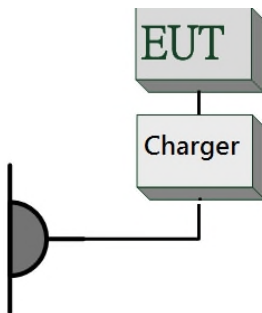
Radiated Emission



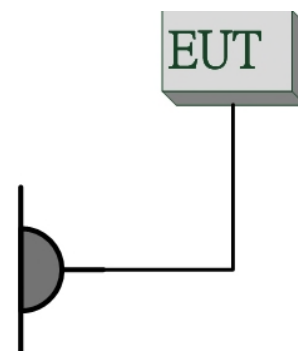
Conducted (Antenna Port)



Conduction (AC power line) Emission



Radiated Emission & Conduction (System)



3.1 輔助測試週邊設備名稱描述

編號	產品別	商標	型號	序號	信號線	電源線
1.	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	P0000195	Shielded	Unshielded
3.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Unshielded
4.	Adapter	HONG SHAING	MUC-5K	AC-USB012	N/A	N/A
5.	Wireless Charger	MI	WPC01ZM	WPC01ZM	N/A	N/A

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4 量測儀器設備

4.1 AC 電源端傳導干擾之量測儀器

Conducted Emission Test Site					
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	04/28/2021

4.2 天線端傳導測試之量測儀器

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/21/2019	11/20/2020
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020
Power Meter	Anritsu	ML2496A	1804002	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726105	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726106	04/06/2020	04/05/2021
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020

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4.3 量測場強輻射之量測儀器

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/09/2019	09/08/2020
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/10/2020	01/09/2021
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	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Attenuator	Woken	WATT-218FS-10	RF25	11/20/2019	11/19/2020
Highpass Filter	Micro Tronics	BRM50701-01	G008	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020

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5 電源線傳導干擾之量測

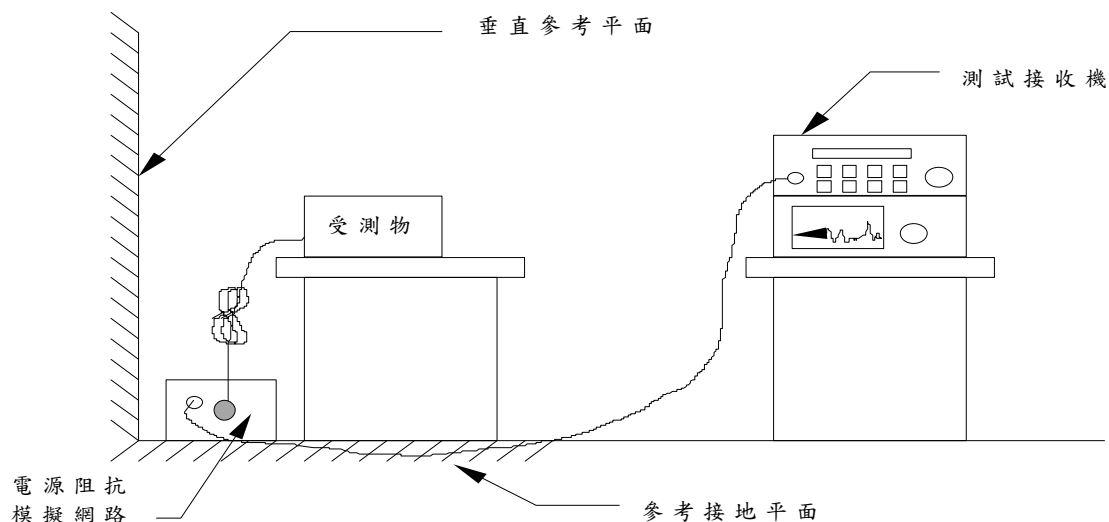
5.1 適用標準

依據NCC低功率射頻電機技術規範2.3節之要求。

5.2 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。

5.3 測試配置



5.4 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：

$$\text{饋線損失} + \text{電源阻抗模擬網路損失}$$

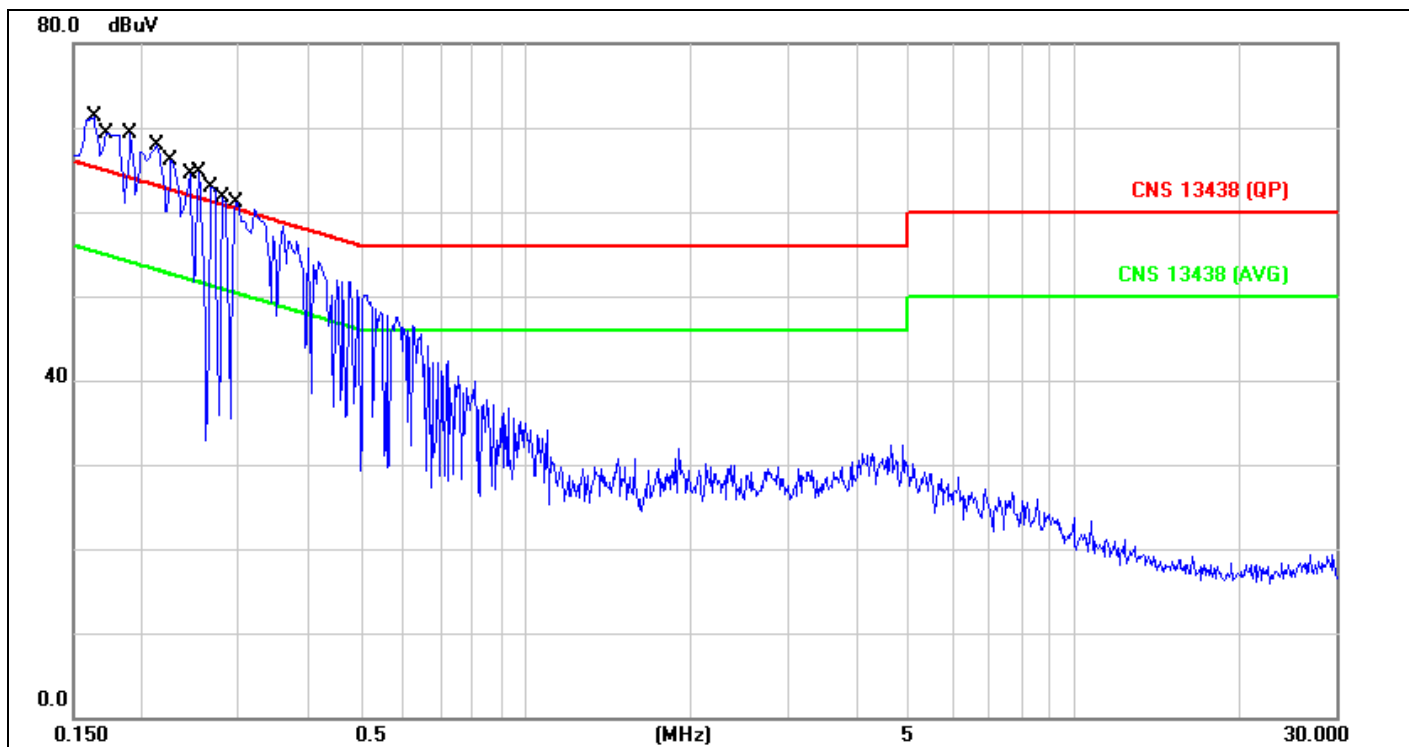
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5.5 傳導干擾之量測結果:

Site: : Conduction Room C	Date: 2020/6/4	Time: 下午 07:00:50
Limit: CNS 13438 (QP)	Probe: L1	Temperature: 24.3 °C
Mode: System	Power: AC110V/60Hz	Humidity: 62 %RH
Report: E2-2020-50115		Air Pressure: 998 hpa
Tester: Ashton		
Note:		



No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1635	52.02	10.22	62.24	65.28	-3.04	QP	
2		0.1635	23.14	10.22	33.36	55.28	-21.92	AVG	
3		0.1725	50.02	10.22	60.24	64.84	-4.60	QP	
4		0.1725	22.57	10.22	32.79	54.84	-22.05	AVG	
5		0.1905	49.26	10.22	59.48	64.01	-4.53	QP	
6		0.1905	20.51	10.22	30.73	54.01	-23.28	AVG	
7		0.2130	48.84	10.22	59.06	63.09	-4.03	QP	
8		0.2130	17.13	10.22	27.35	53.09	-25.74	AVG	
9		0.2265	47.98	10.22	58.20	62.58	-4.38	QP	
10		0.2265	17.79	10.22	28.01	52.58	-24.57	AVG	
11		0.2445	46.59	10.22	56.81	61.94	-5.13	QP	
12		0.2445	16.26	10.22	26.48	51.94	-25.46	AVG	
13		0.2535	45.50	10.22	55.72	61.64	-5.92	QP	
14		0.2535	16.85	10.22	27.07	51.64	-24.57	AVG	
15		0.2714	45.16	10.22	55.38	61.07	-5.69	QP	

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16		0.2714	16.54	10.22	26.76	51.07	-24.31	AVG	
17		0.2805	42.80	10.22	53.02	60.80	-7.78	QP	
18		0.2805	15.97	10.22	26.19	50.80	-24.61	AVG	
19		0.2985	43.26	10.22	53.48	60.28	-6.80	QP	
20		0.2985	14.13	10.22	24.35	50.28	-25.93	AVG	

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Site: : Conduction Room C

Limit: CNS 13438 (QP)

Mode: System

Report: E2-2020-50115

Tester: Ashton

Date: 2020/6/4

Probe: N

Power: AC110V/60Hz

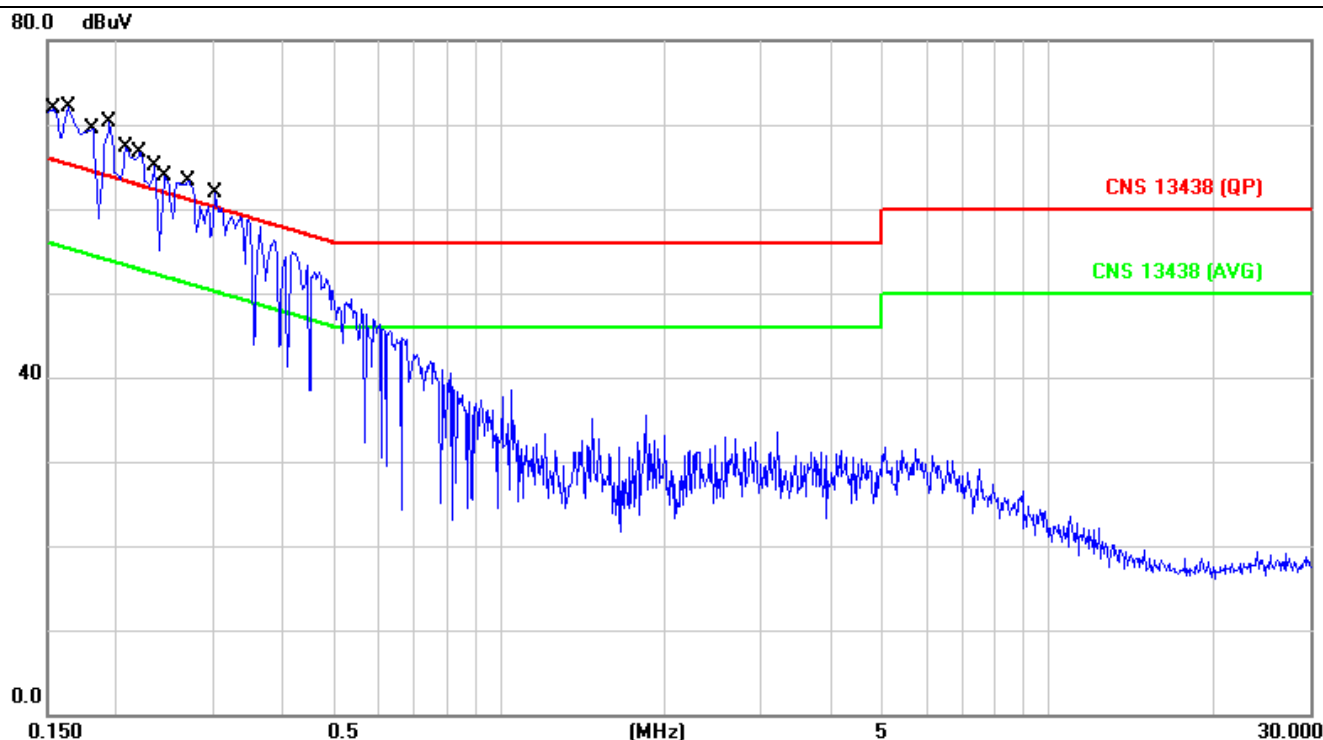
Time: 下午 07:10:32

Temperature: 24.3 °C

Humidity: 62 %RH

Air Pressure: 998 hpa

Note:



No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1545	52.26	10.21	62.47	65.75	-3.28	QP	
2		0.1545	21.04	10.21	31.25	55.75	-24.50	AVG	
3		0.1635	51.77	10.21	61.98	65.28	-3.30	QP	
4		0.1635	21.03	10.21	31.24	55.28	-24.04	AVG	
5		0.1815	50.40	10.21	60.61	64.42	-3.81	QP	
6		0.1815	20.66	10.21	30.87	54.42	-23.55	AVG	
7		0.1950	49.43	10.21	59.64	63.82	-4.18	QP	
8		0.1950	19.30	10.21	29.51	53.82	-24.31	AVG	
9		0.2085	49.11	10.21	59.32	63.26	-3.94	QP	
10		0.2085	17.80	10.21	28.01	53.26	-25.25	AVG	
11		0.2220	47.05	10.21	57.26	62.74	-5.48	QP	
12		0.2220	16.23	10.21	26.44	52.74	-26.30	AVG	
13		0.2355	46.91	10.21	57.12	62.25	-5.13	QP	
14		0.2355	16.23	10.21	26.44	52.25	-25.81	AVG	
15		0.2455	45.65	10.21	55.86	61.91	-6.05	QP	
16		0.2455	14.86	10.21	25.07	51.91	-26.84	AVG	
17		0.2714	44.64	10.21	54.85	61.07	-6.22	QP	

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SGS Taiwan Ltd.

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Member of SGS Group

18		0.2714	15.10	10.21	25.31	51.07	-25.76	AVG	
19		0.3030	42.31	10.22	52.53	60.16	-7.63	QP	
20		0.3030	12.18	10.22	22.40	50.16	-27.76	AVG	

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6 場強輻射之量測

6.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1.5之要求，其他開放頻帶外不必要之輻射干擾需符合2.8節之一般限制要求。

6.2 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。

1GHz 以下先進行Peak 值量測，若Peak 以低於QP 限制值將不在進行QP 量測，否則，則進行QP 值量測，1GHz 以上先進行Peak 值量測，若Peak 以低於AV 限制值將不在進行AV值量測，否則，則進行AV 值量測。

9kHz~150kHz 測試

解析頻寬:	300Hz	視訊頻寬:	300Hz
量測天線:	6502	檢測器:	Quasi-Peak

150kHz~30MHz 測試

解析頻寬:	10kHz	視訊頻寬:	10kHz
量測天線:	6502	檢測器:	Quasi-Peak

1GHz 以下測試

解析頻寬:	100kHz	視訊頻寬:	100kHz
量測天線:	CBL 6112D	檢測器:	Quasi-Peak

1GHz 以上測試

量測天線:	BBHA9120D	檢測器:	Peak, Average
頻譜分析儀設定	Peak: RBW: 1MHz ; VBW: 1MHz , Average: RBW: 1MHz ; VBW: 10Hz		

註: 輻射量測僅放最差模式 (30MHz 以上)。

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6.3 場強度之計算

場強之計算公式如

$$\text{結果值} = \text{讀值} + \text{校正因子}$$

其中校正因子為：

天線因子+ 饋線損失 + 濾波器損失（若有使用） - 放大器增益（若有使用）

量測結果請見下頁。

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

Note: Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

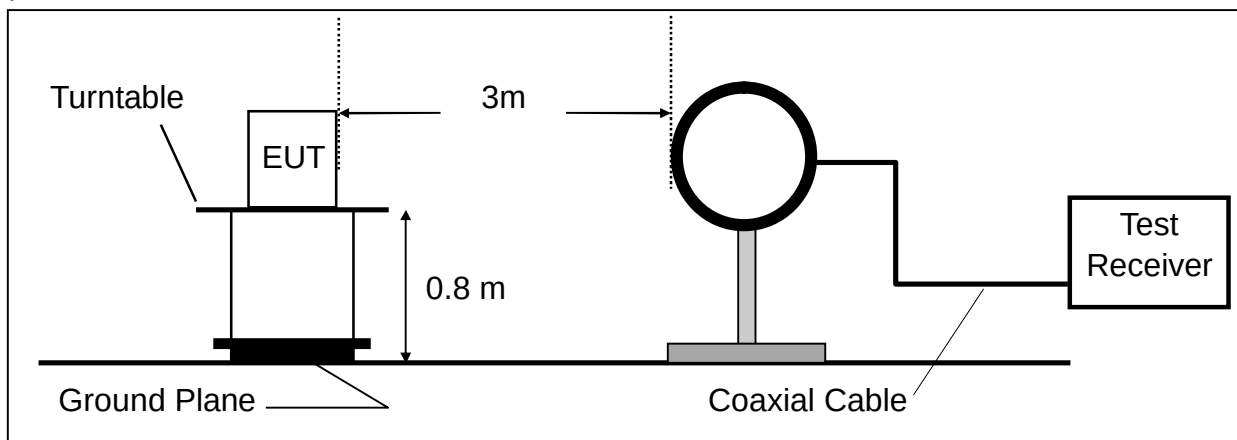
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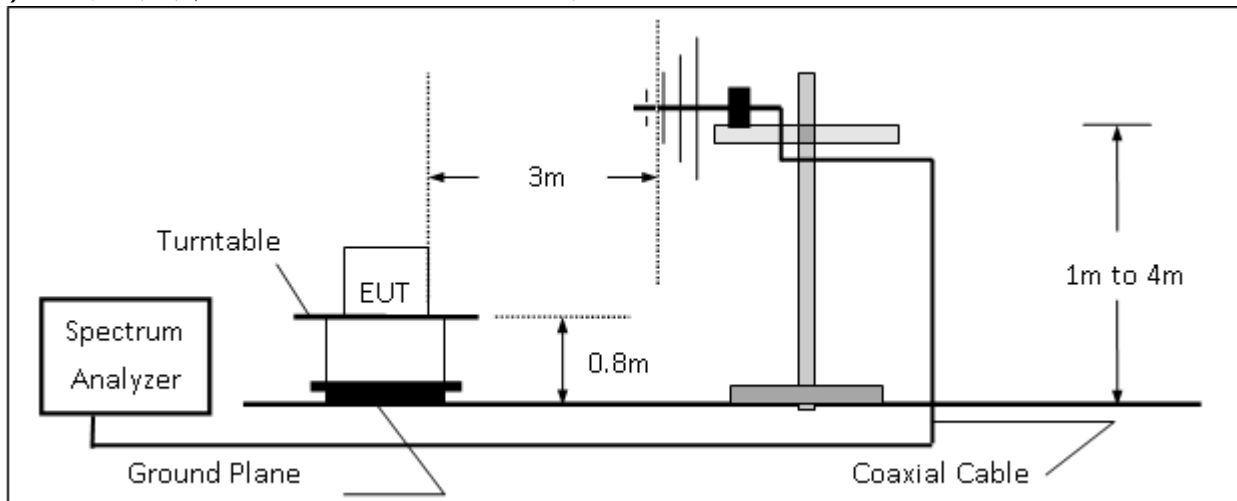
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6.4 輻射之測試配置

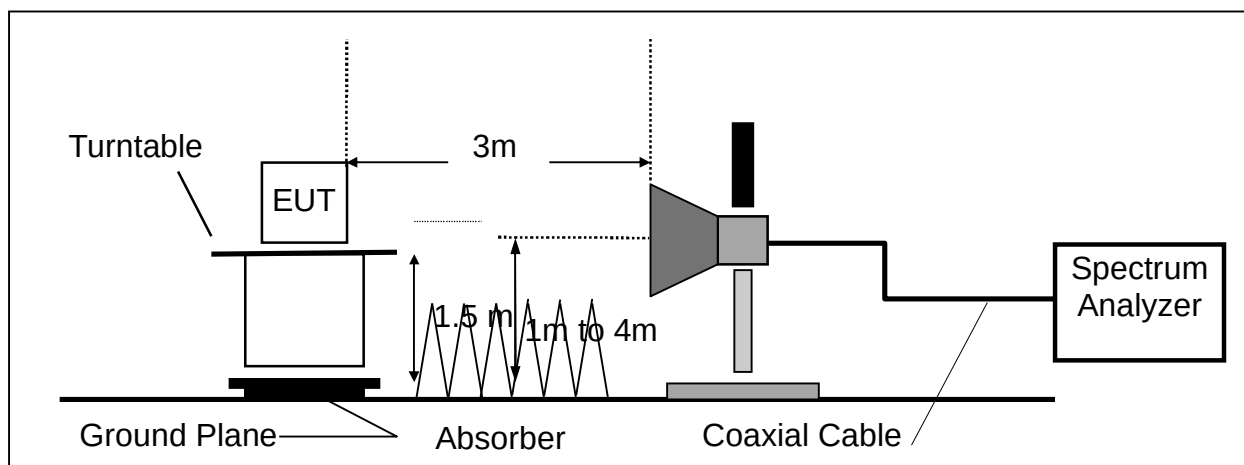
(A) 量測頻率低於 30MHz 以下之測試配置



(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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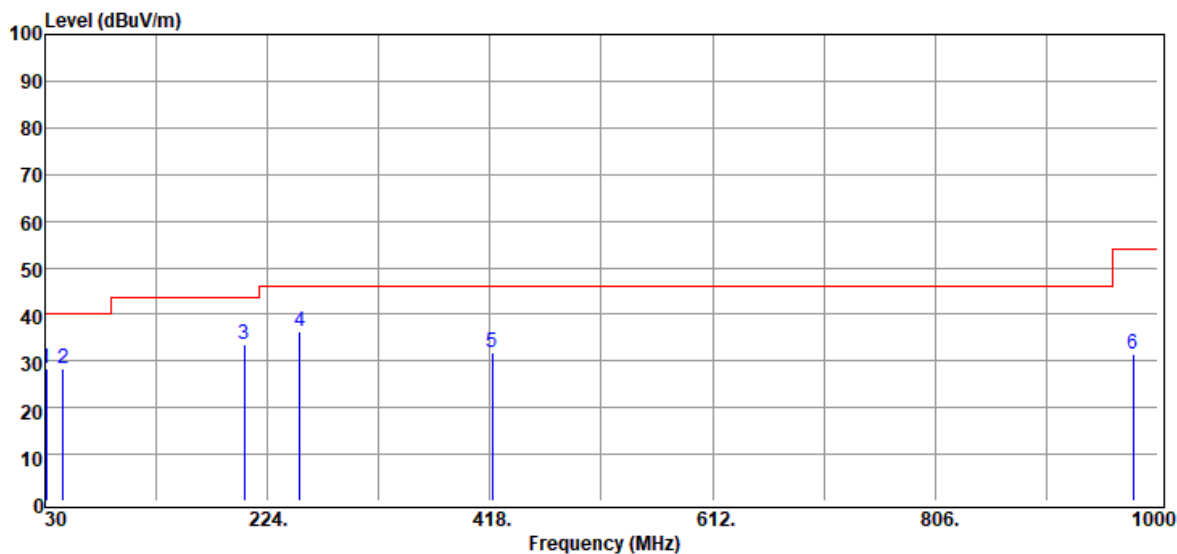
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6.5 場強輻射之量測結果

6.5.1 發射機場強輻射之量測結果(1GHz 以下)

Report Number :E2/2020/50118
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.5/54
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	32.43	-3.89	28.54	40.00	-11.46
45.52	Peak	41.25	-12.74	28.51	40.00	-11.49
203.63	Peak	48.54	-15.06	33.48	43.50	-10.02
252.13	Peak	47.59	-11.26	36.33	46.00	-9.67
419.94	Peak	38.26	-6.31	31.95	46.00	-14.05
978.66	Peak	29.65	1.80	31.45	54.00	-22.55

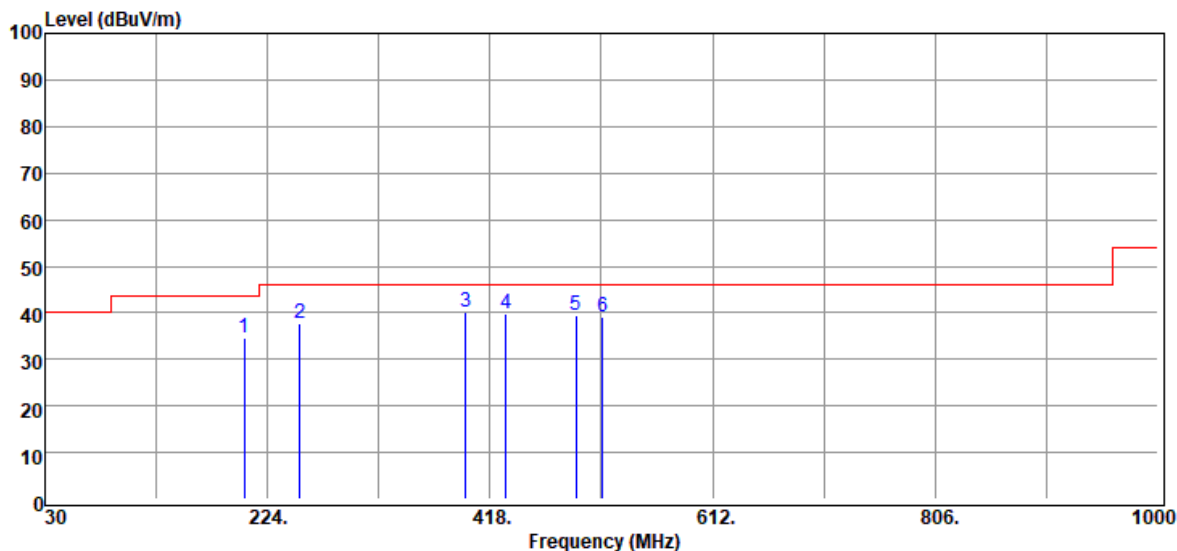
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Report Number :E2/2020/50118
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.5/54
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
203.63	Peak	49.78	-15.06	34.72	43.50	-8.78
252.13	Peak	49.14	-11.26	37.88	46.00	-8.12
396.66	Peak	47.69	-7.65	40.04	46.00	-5.96
431.58	Peak	45.70	-5.99	39.71	46.00	-6.29
492.69	Peak	44.41	-5.04	39.37	46.00	-6.63
515.97	Peak	44.16	-5.05	39.11	46.00	-6.89

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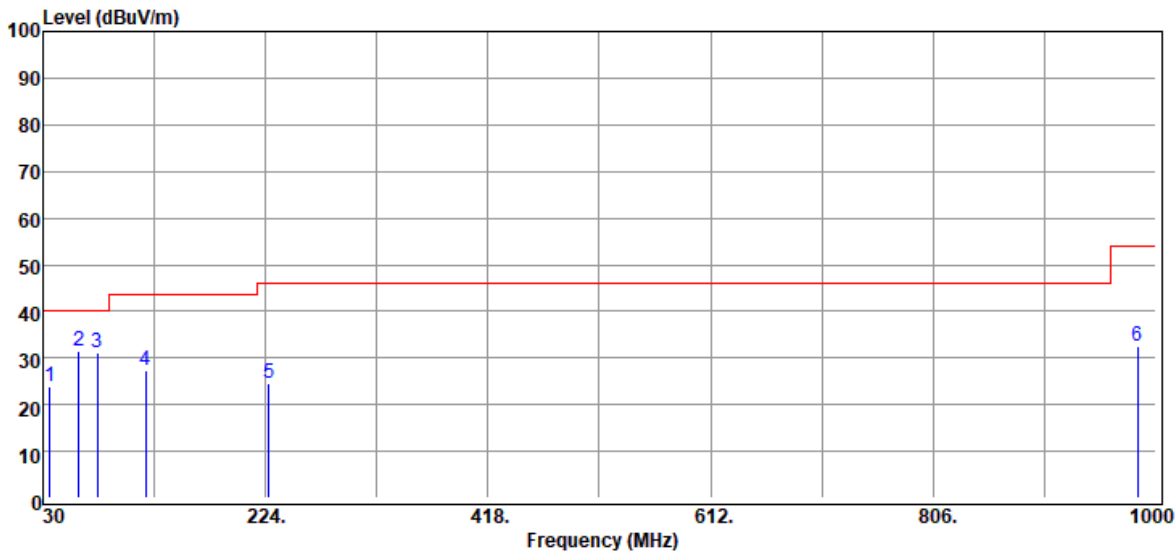
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Fully System

Report Number :E2/2020/50115
Operation Mode :System
Test Frequency :System
Test Mode :System
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/54
Antenna Pol. :VERTICAL
Engineer :Ashton



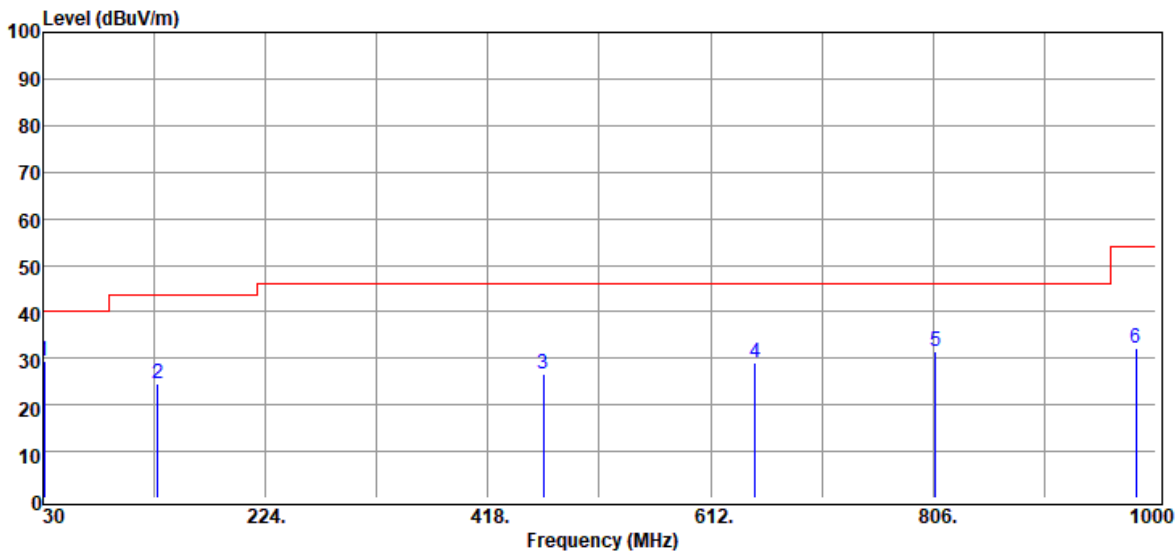
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.82	QP	29.89	-6.15	23.74	40.00	-16.26
61.04	Peak	51.75	-20.14	31.61	40.00	-8.39
77.53	Peak	49.05	-18.07	30.98	40.00	-9.02
119.24	Peak	40.32	-12.92	27.40	43.50	-16.10
226.91	Peak	38.82	-14.40	24.42	46.00	-21.58
984.48	Peak	30.80	1.77	32.57	54.00	-21.43

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Report Number :E2/2020/50115
Operation Mode :System
Test Frequency :System
Test Mode :System
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/54
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
30.97	Peak	33.22	-3.89	29.33	40.00	-10.67
129.91	Peak	37.53	-12.93	24.60	43.50	-18.90
466.50	Peak	32.35	-5.65	26.70	46.00	-19.30
650.80	Peak	31.34	-2.13	29.21	46.00	-16.79
807.94	Peak	31.49	0.12	31.61	46.00	-14.39
982.54	Peak	30.37	1.82	32.19	54.00	-21.81

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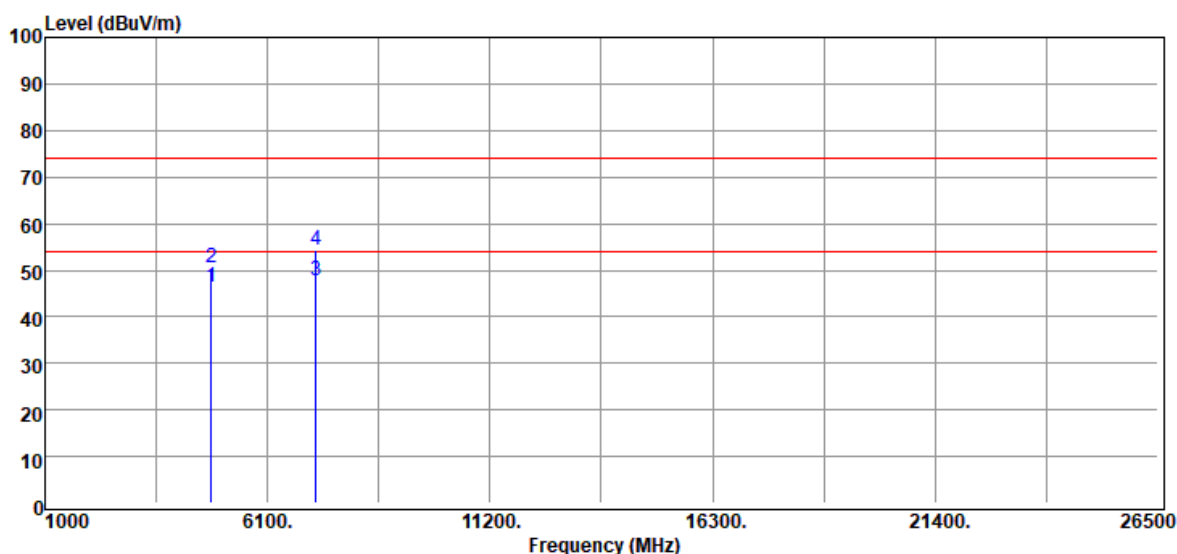
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6.5.2 發射機場強輻射之量測結果(1GHz 以上)

Report Number :E2/2020/50118
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-18
 Temp./Humi. :21.8/59
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	32.39	14.07	46.46	54.00	-7.54
4804.00	Peak	36.45	14.07	50.52	74.00	-23.48
7206.00	Average	26.81	20.82	47.63	54.00	-6.37
7206.00	Peak	33.36	20.82	54.18	74.00	-19.82

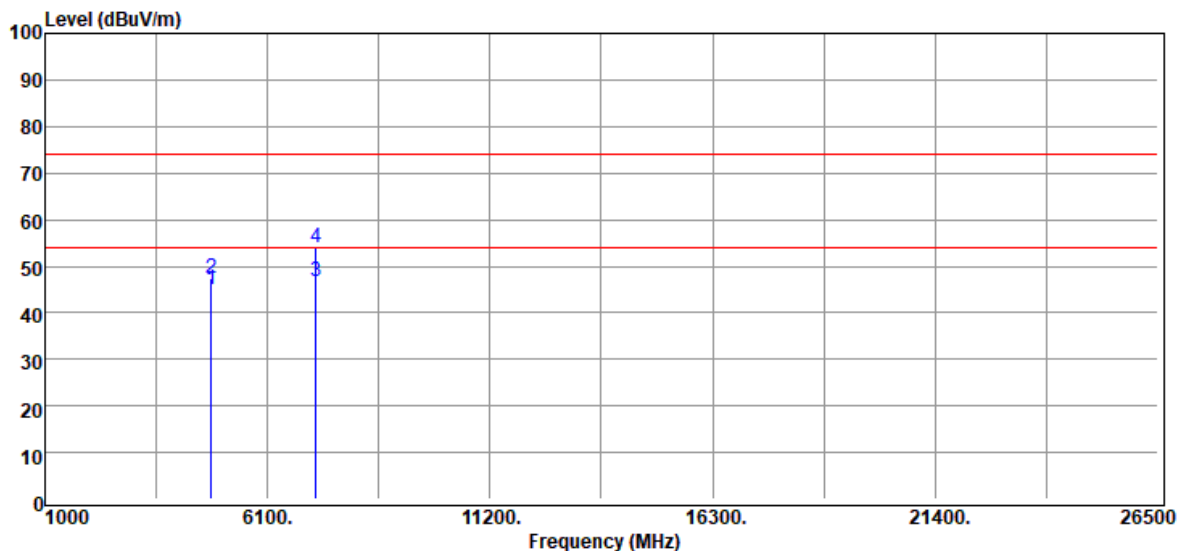
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Report Number :E2/2020/50118
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-18
Temp./Humi. :21.8/59
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	30.81	14.07	44.88	54.00	-9.12
4804.00	Peak	33.48	14.07	47.55	74.00	-26.45
7206.00	Average	25.83	20.82	46.65	54.00	-7.35
7206.00	Peak	33.22	20.82	54.04	74.00	-19.96

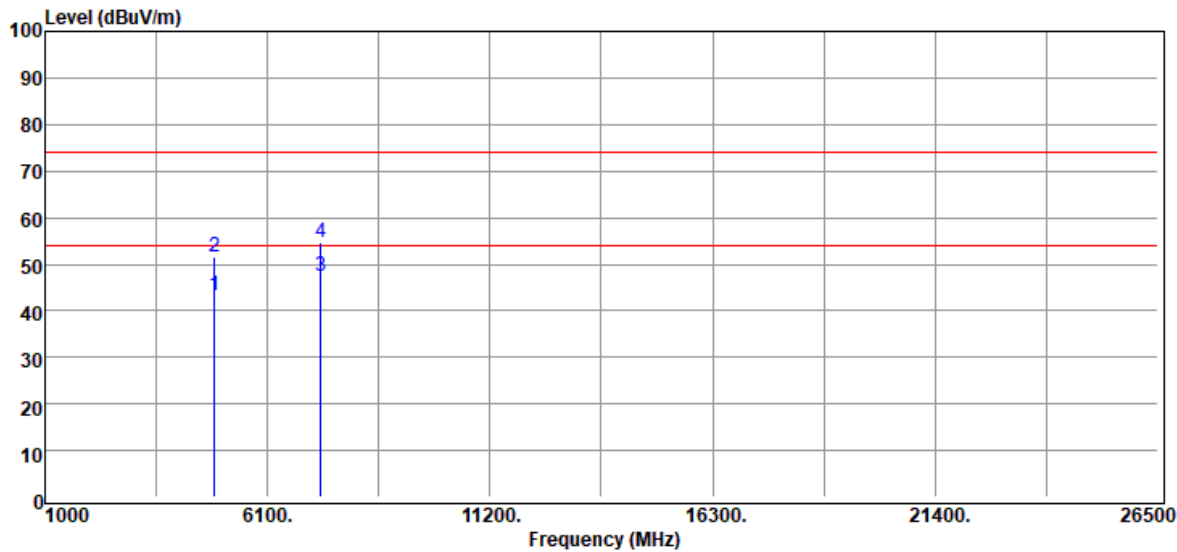
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Report Number :E2/2020/50118
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-18
Temp./Humi. :21.8/59
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	29.21	14.21	43.42	54.00	-10.58
4884.00	Peak	37.43	14.21	51.64	74.00	-22.36
7326.00	Average	26.67	20.78	47.45	54.00	-6.55
7326.00	Peak	34.01	20.78	54.79	74.00	-19.21

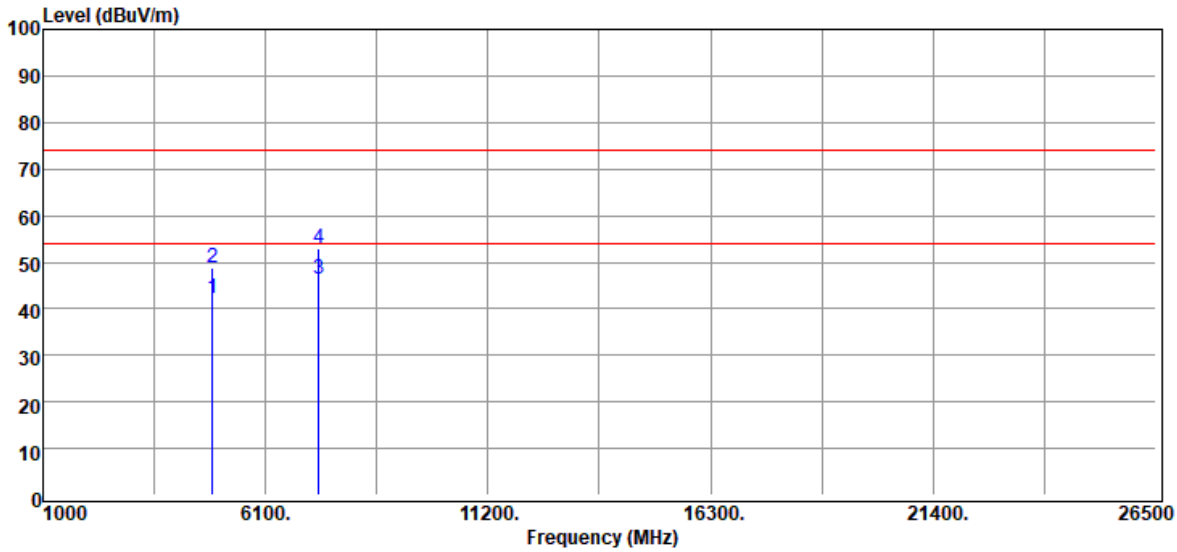
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Report Number :E2/2020/50118
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-18
Temp./Humi. :21.8/59
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	28.13	14.21	42.34	54.00	-11.66
4884.00	Peak	34.41	14.21	48.62	74.00	-25.38
7326.00	Average	25.46	20.78	46.24	54.00	-7.76
7326.00	Peak	32.10	20.78	52.88	74.00	-21.12

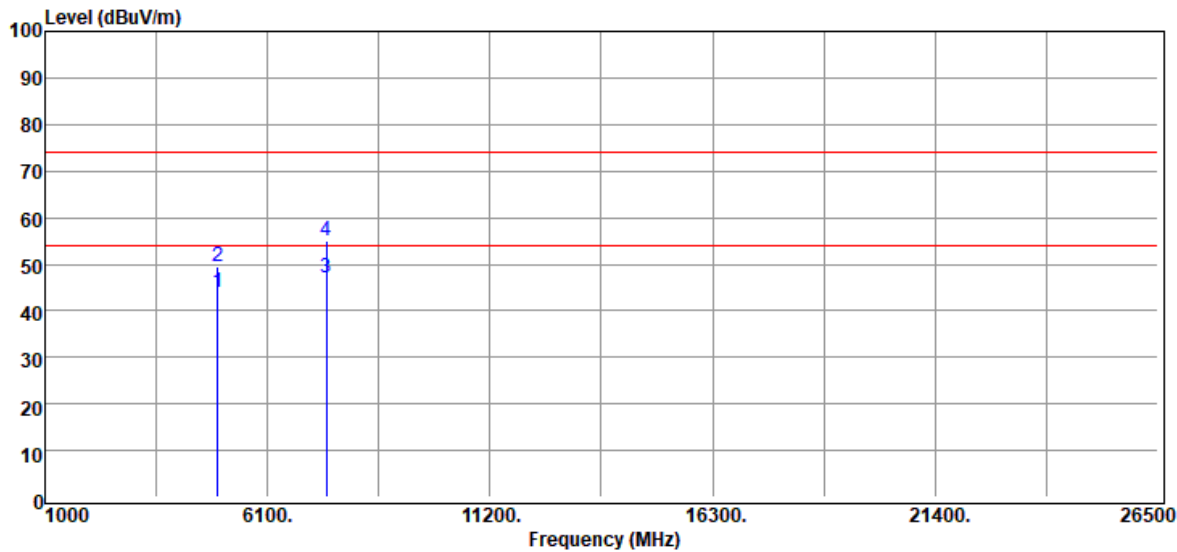
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Report Number :E2/2020/50118
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-18
Temp./Humi. :21.8/59
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	29.91	14.13	44.04	54.00	-9.96
4960.00	Peak	35.32	14.13	49.45	74.00	-24.55
7440.00	Average	25.61	21.52	47.13	54.00	-6.87
7440.00	Peak	33.64	21.52	55.16	74.00	-18.84

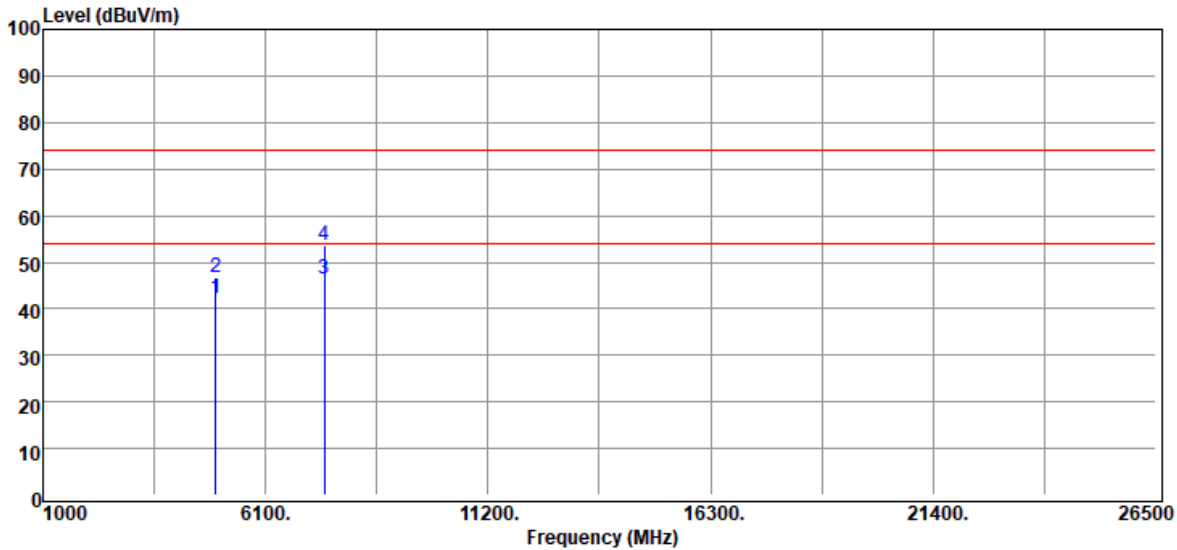
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Report Number :E2/2020/50118
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-18
Temp./Humi. :21.8/59
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	28.08	14.13	42.21	54.00	-11.79
4960.00	Peak	32.47	14.13	46.60	74.00	-27.40
7440.00	Average	24.98	21.52	46.50	54.00	-7.50
7440.00	Peak	32.10	21.52	53.62	74.00	-20.38

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.

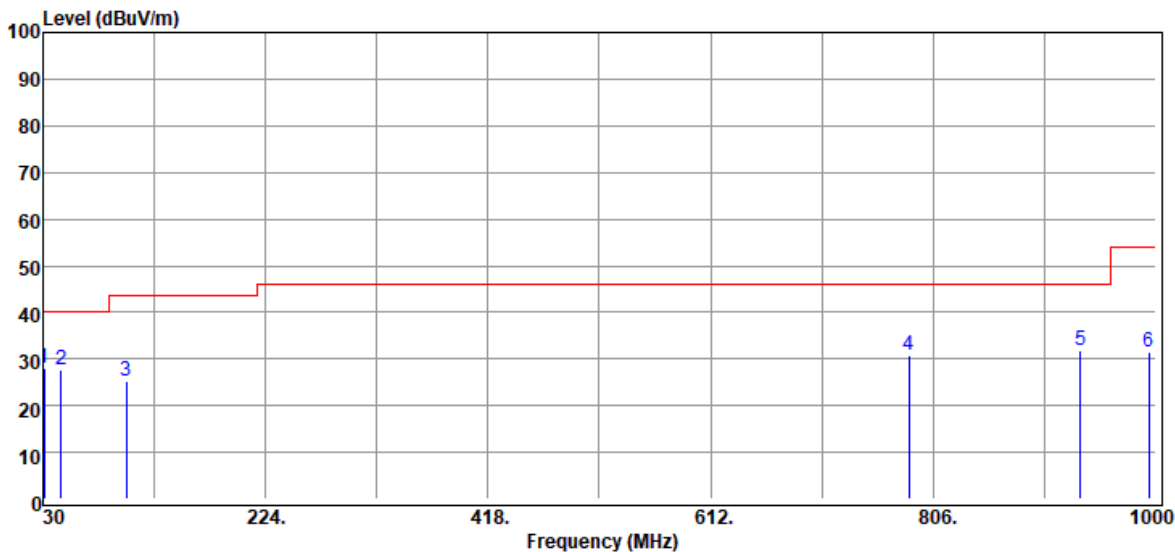
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6.5.3 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Report Number :E2/2020/50118
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :RX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.7/54
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	31.97	-3.89	28.08	40.00	-11.92
45.52	Peak	40.43	-12.74	27.69	40.00	-12.31
102.75	Peak	40.49	-15.14	25.35	43.50	-18.15
784.66	Peak	30.73	0.21	30.94	46.00	-15.06
934.04	Peak	30.53	1.33	31.86	46.00	-14.14
994.18	Peak	29.87	1.69	31.56	54.00	-22.44

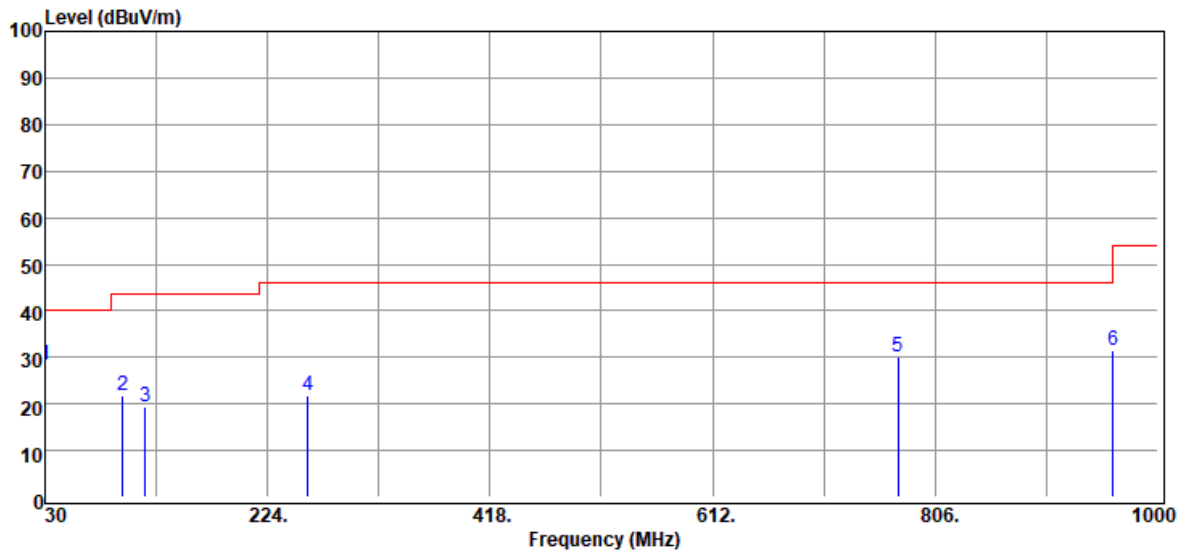
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Report Number :E2/2020/50118
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :RX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.7/54
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	31.66	-3.33	28.33	40.00	-11.67
97.90	Peak	37.83	-15.99	21.84	43.50	-21.66
117.30	Peak	32.67	-13.17	19.50	43.50	-24.00
258.92	Peak	32.25	-10.49	21.76	46.00	-24.24
773.99	Peak	30.31	-0.09	30.22	46.00	-15.78
961.20	Peak	30.04	1.44	31.48	54.00	-22.52

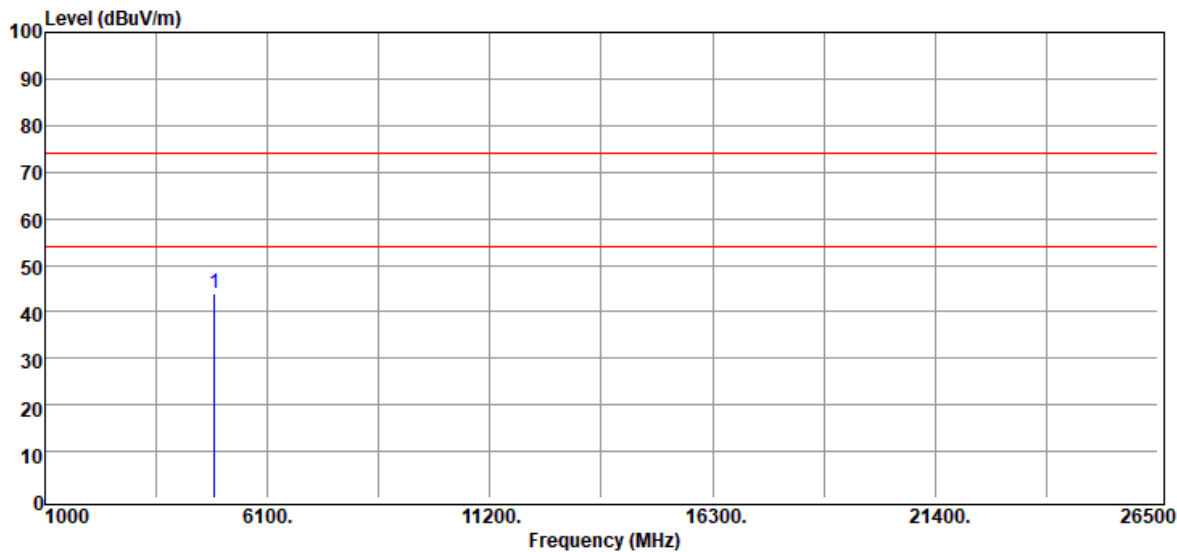
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6.5.4 接收模式場強輻射之量測結果(1GHz 以上) (最差模式)

Report Number :E2/2020/50118
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :RX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.4/57
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Peak	29.73	14.21	43.94	74.00	-30.06

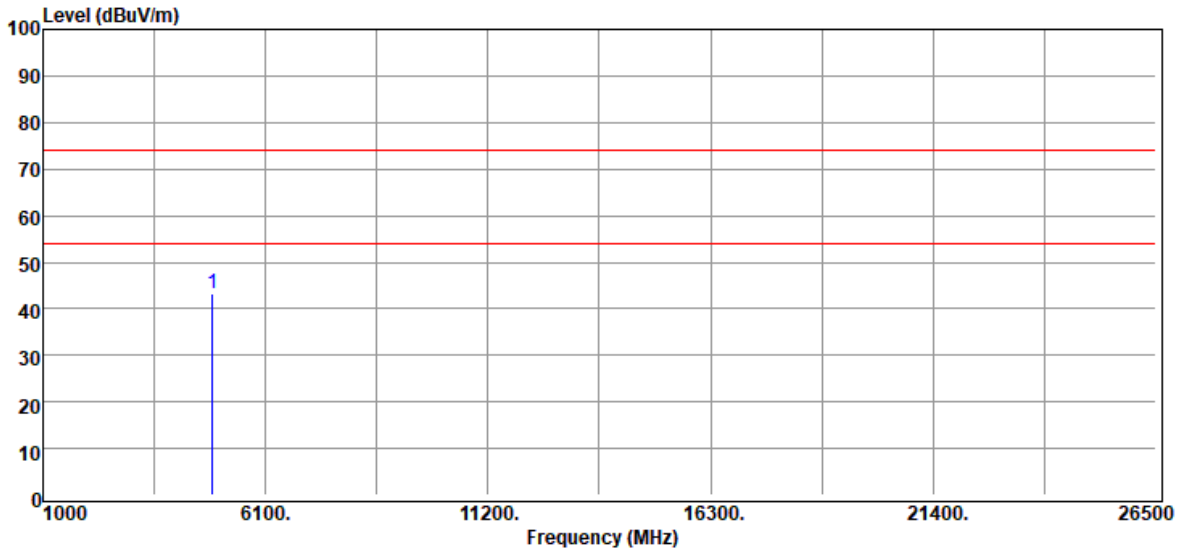
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Report Number :E2/2020/50118
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :RX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.4/57
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Peak	29.12	14.21	43.33	74.00	-30.67

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7 天線增益之要求

7.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1.3 (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3.10.1.3 (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3.10.1.3 (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。

7.2 天線增益

此裝置使用天線如下：

天線型式/天線增益	Integral Antenna, Gain: 3.18dBi Model No.: S2TVW, Supplier: SKULLCANDY, INC.
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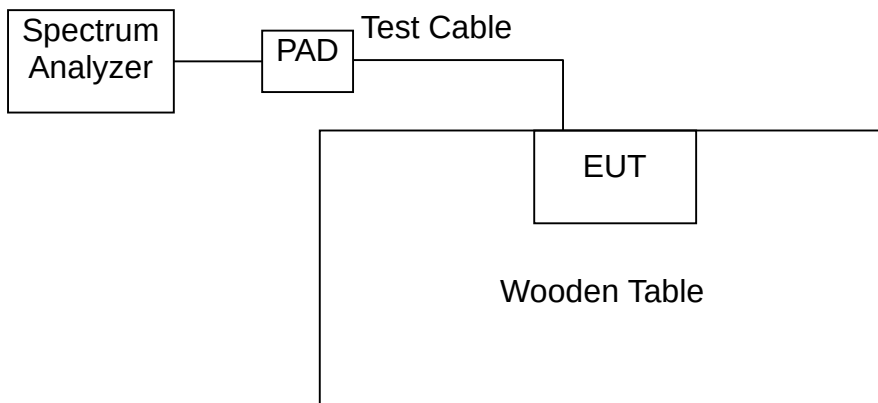
8 發射頻寬之要求

8.1 適用標準

對使用數位調變技術之低功率發射機，依據NCC低功率射頻電機技術規範3.10.1.6(2) (A)之規定，6dB之頻寬至少應有500kHz。

8.2 測試配置

圖 4: 發射頻寬之測試配置



8.3 量測結果

BLE mode

頻率 (MHz)	頻寬讀值 (kHz)	限制值 (kHz)	結果
2402	704	> 500	PASS
2442	708.5	> 500	PASS
2480	716.3	> 500	PASS

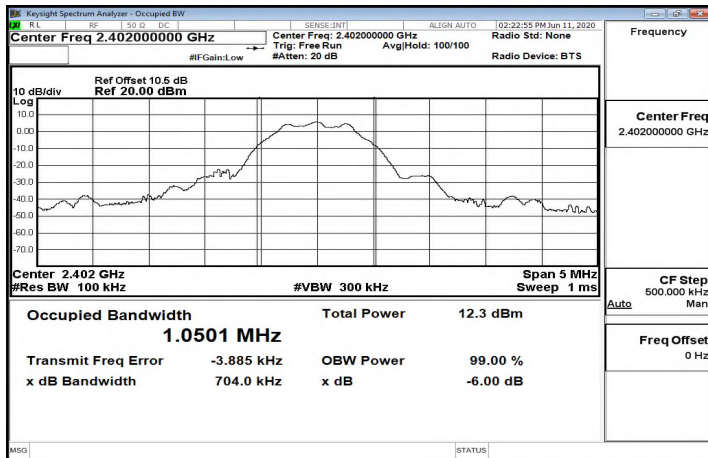
Refer next page for test plots

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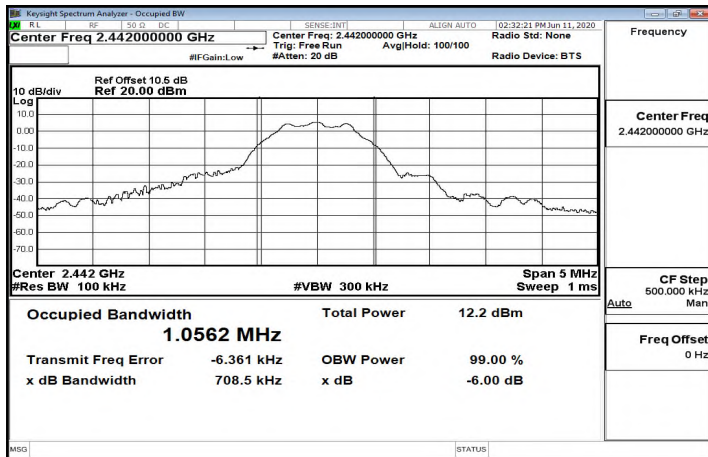
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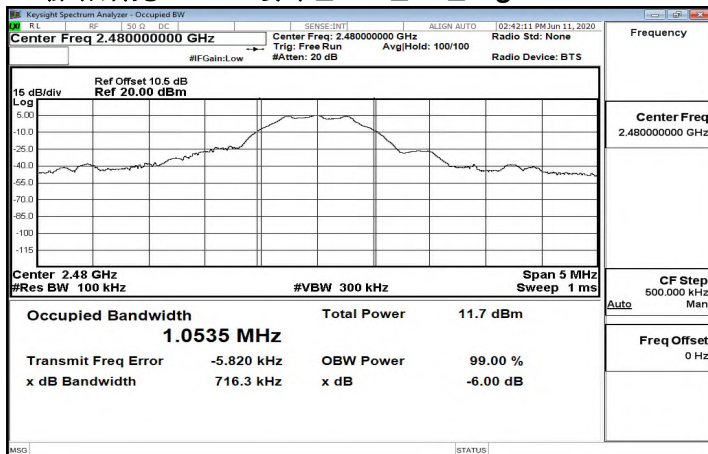
發射頻寬 6dB 之要求_BLE_1M_LowCH00-2402



發射頻寬 6dB 之要求_BLE_1M_MidCH20-2442



發射頻寬 6dB 之要求_BLE_1M_HighCH39-2480



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9 輸出峰值功率之量測

9.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1.2(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低功率射頻電機技術規範3.10.1.3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：

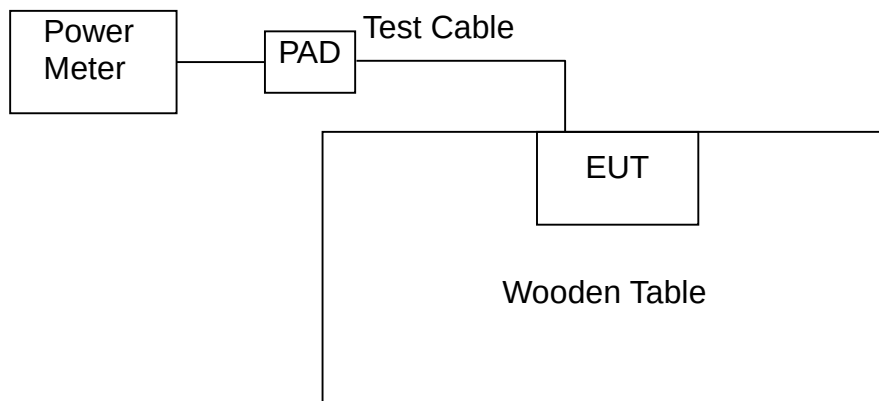
依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (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3.10.1.3 (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。

9.2 輸出功率之測試配置



*註：此產品為點對多點操作

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9.3 輸出功率之量測結果

BLE

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	6.87	0.00486	1
2442.00	6.70	0.00468	1
2480.00	6.39	0.00436	1
Cable loss	0 dB		

***Note:** 由 Power Meter 量測。

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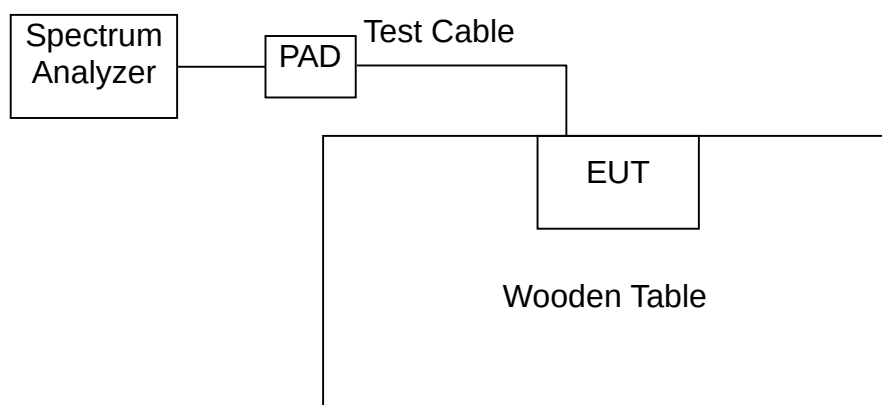
10 開放頻帶邊緣 100KHZ 頻寬內之限制

10.1 適用標準

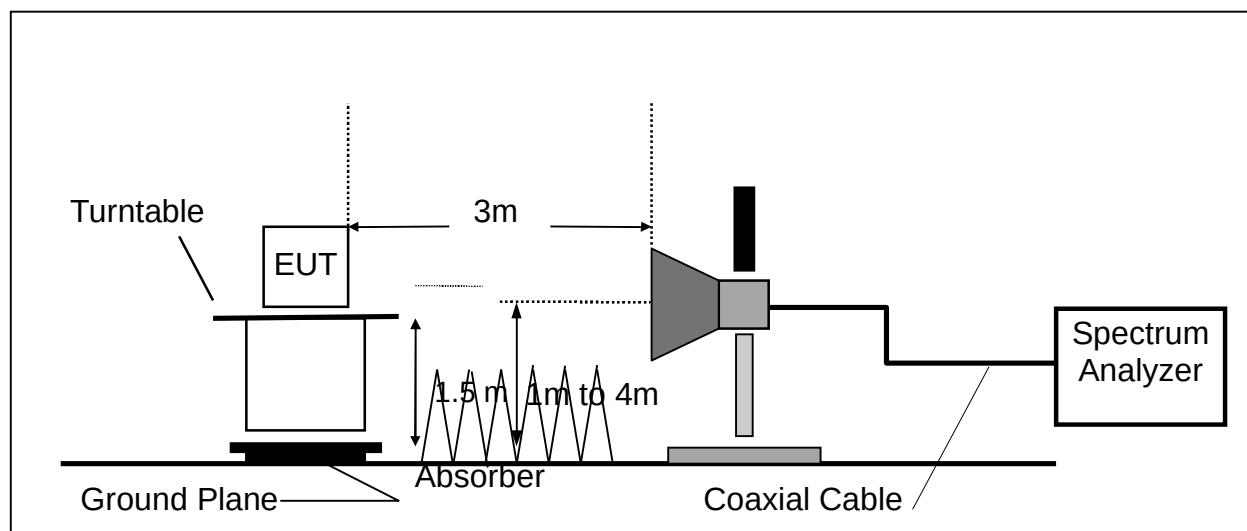
依據 NCC 低功率射頻電機技術規範 3.10.1.5 之規定，使用頻帶範圍外之任意 100kHz 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100kHz 內的射頻功率，須衰減 20 分貝 (dB)，以射頻傳導或輻射方式測量。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

10.2 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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10.3 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。

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

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

Band Edge Limit

Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit = PSD - 20dB
2402	5.52	-14.48
2442	5.36	-14.64
2480	4.77	-15.23

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

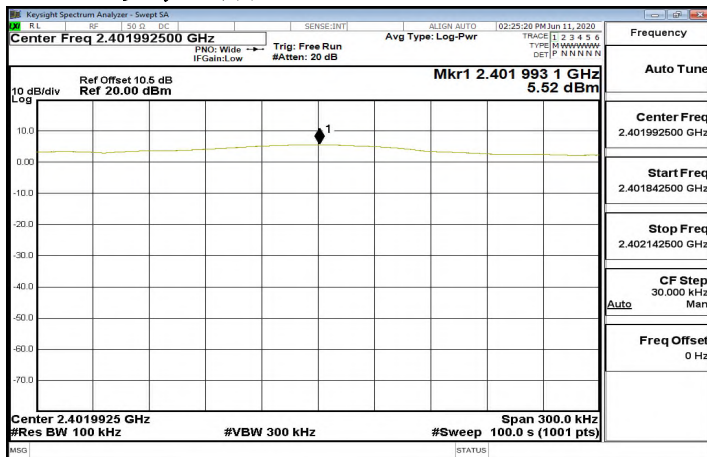
NOTE: Refer to next page for plots.

Refer next page for test plots

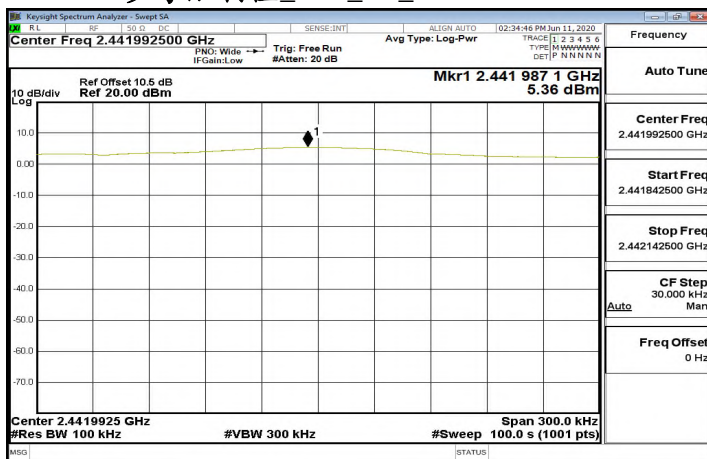
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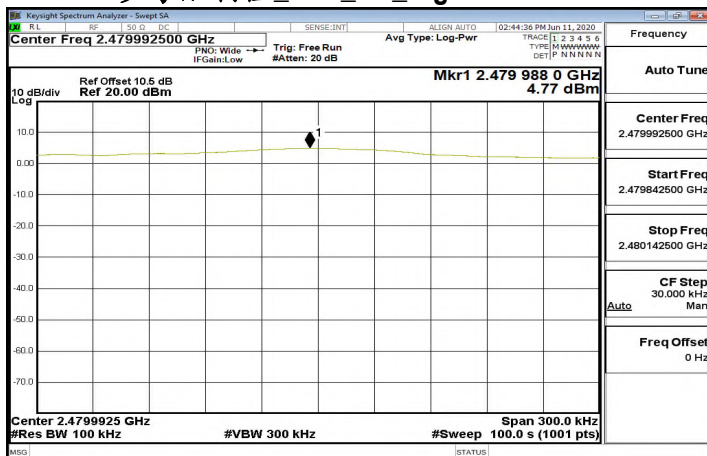
參考限制值_BLE_1M_LowCH00-2402



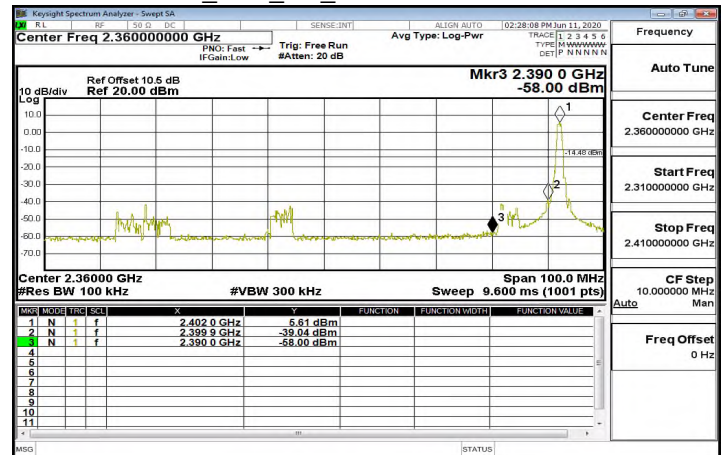
參考限制值_BLE_1M_MidCH20-2442



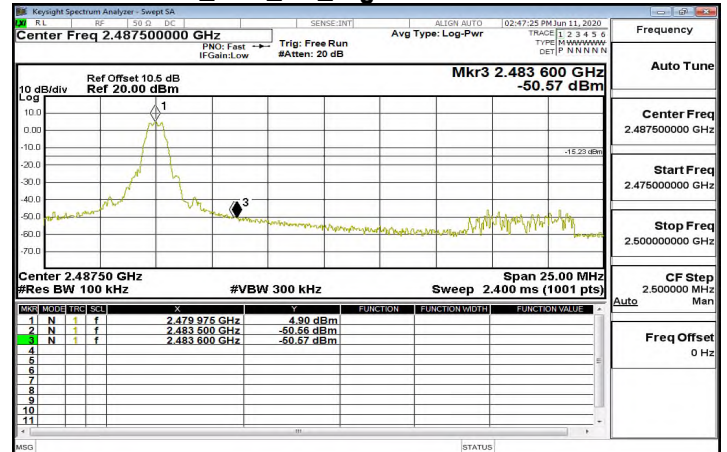
參考限制值_BLE_1M_HighCH39-2480



開放頻帶邊緣 100KHz 頻寬內之限制 _BLE_1M_LowCH00-2402



開放頻帶邊緣 100KHz 頻寬內之限制 _BLE_1M_HighCH39-2480



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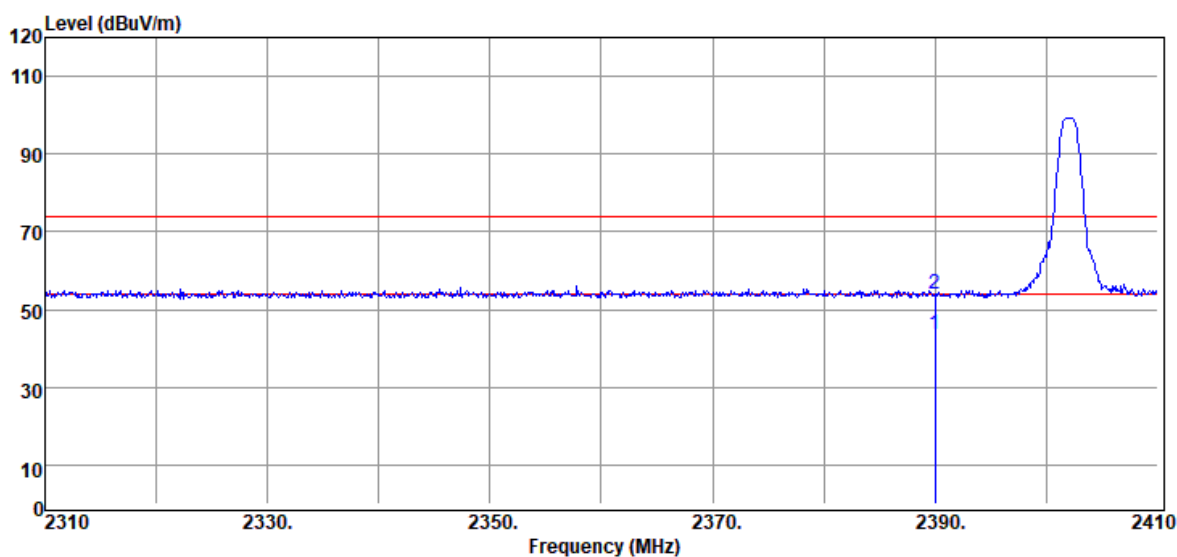
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10.3.1 禁用頻帶輻射量測值

Report Number :E2/2020/50118
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-24
 Temp./Humi. :22.3/61
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	39.85	3.76	43.61	54.00	-10.39
2390.00	Peak	50.30	3.76	54.06	74.00	-19.94

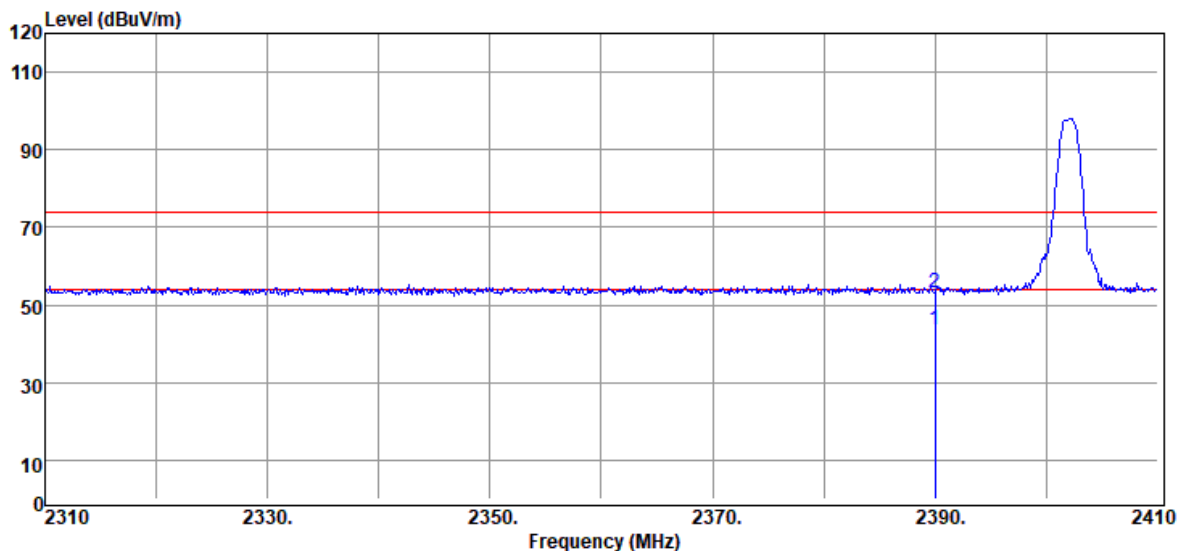
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Report Number :E2/2020/50118
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-24
Temp./Humi. :22.3/61
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	39.67	3.76	43.43	54.00	-10.57
2390.00	Peak	49.27	3.76	53.03	74.00	-20.97

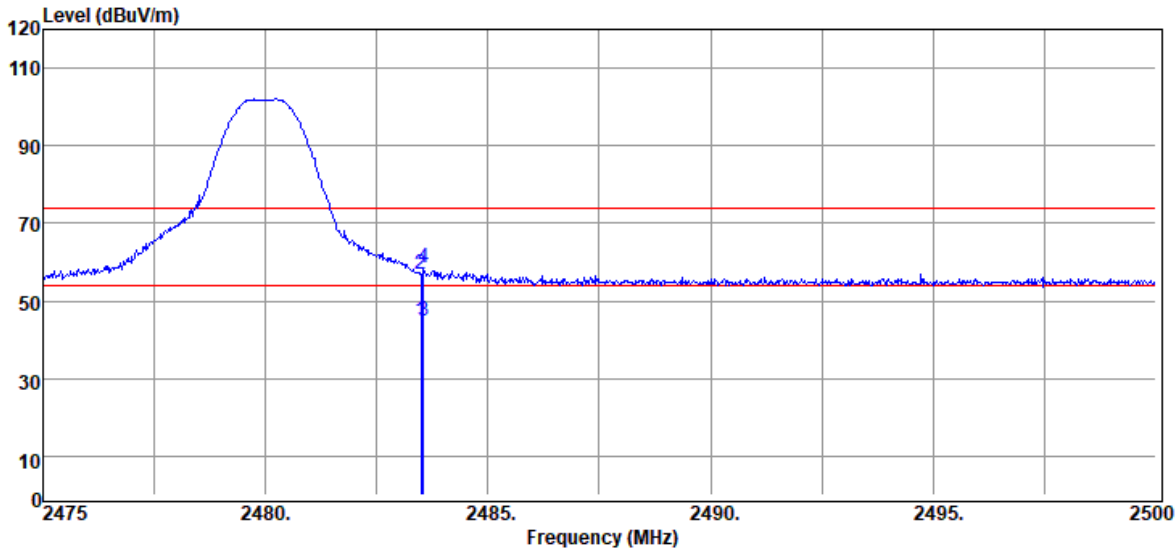
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Report Number :E2/2020/50118
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-24
Temp./Humi. :22.3/61
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	40.50	4.42	44.92	54.00	-9.08
2483.50	Peak	52.49	4.42	56.91	74.00	-17.09
2483.55	Average	40.35	4.43	44.78	54.00	-9.22
2483.55	Peak	53.94	4.43	58.37	74.00	-15.63

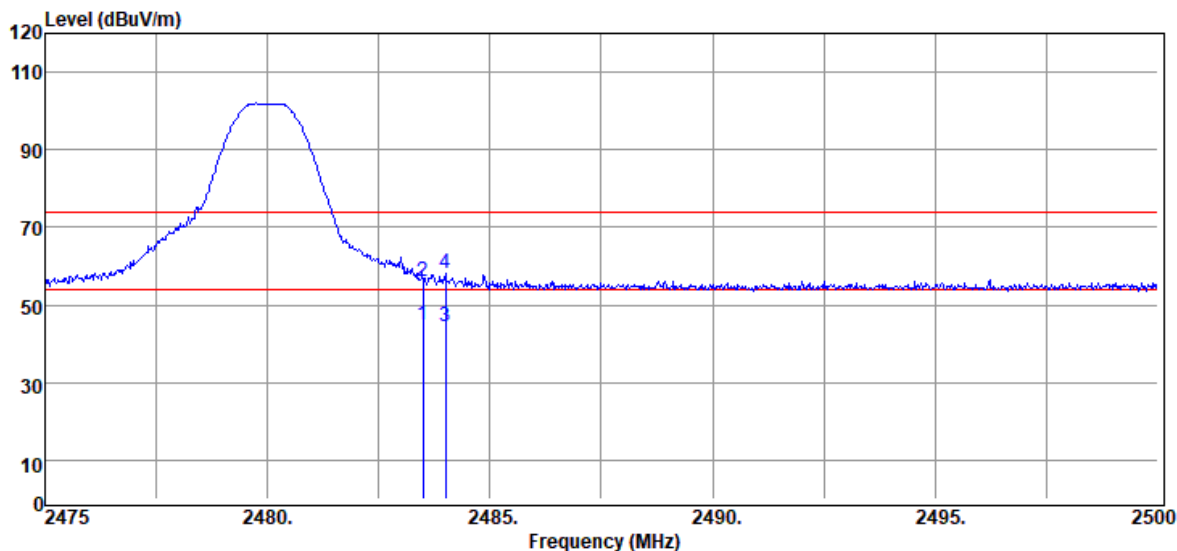
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Report Number :E2/2020/50118
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-24
Temp./Humi. :22.3/61
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	40.33	4.42	44.75	54.00	-9.25
2483.50	Peak	51.78	4.42	56.20	74.00	-17.80
2484.00	Average	40.11	4.44	44.55	54.00	-9.45
2484.00	Peak	53.71	4.44	58.15	74.00	-15.85

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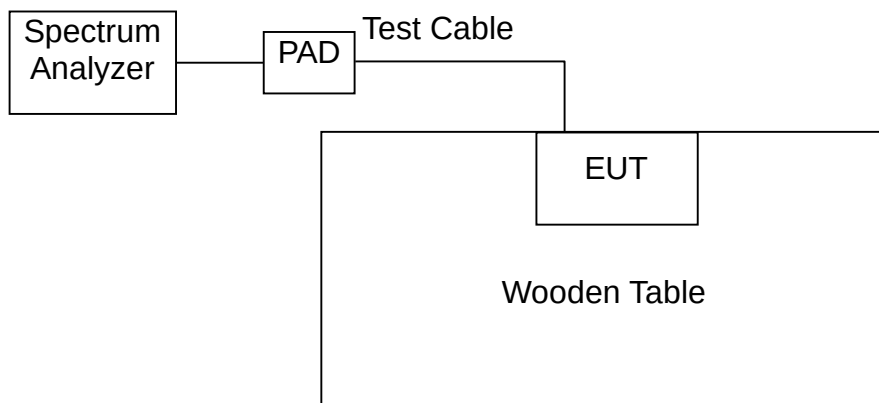
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11 功率密度之量測

11.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1.6(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。

11.2 功率密度之測試配置



11.3 功率密度量測結果

BLE mode

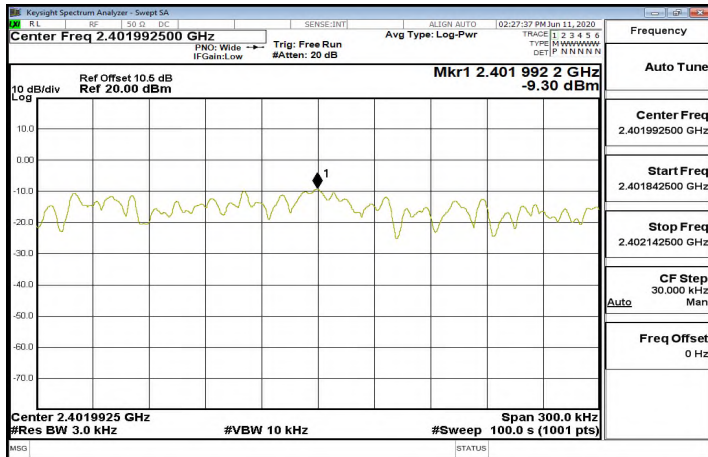
Frequency (MHz)	RF Power (dBm)	Maximum Limit (dBm)
2402	-9.30	8
2442	-9.65	8
2480	-10.00	8

* offset 10.5 dB

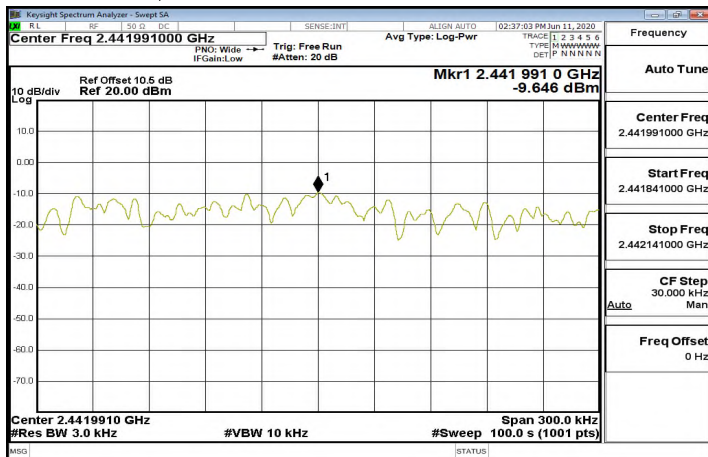
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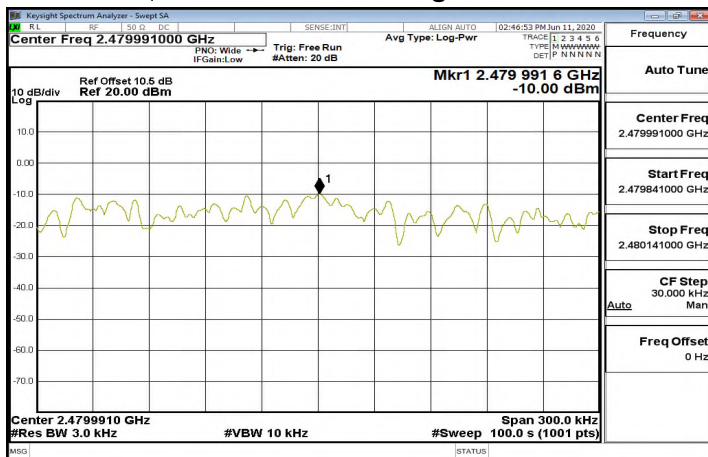
功率密度_BLE_1M_LowCH00-2402



功率密度_BLE_1M_MidCH20-2442



功率密度_BLE_1M_HighCH39-2480



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~ End of Report ~

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