

低功率射頻電機試驗報告

申請廠商	台灣愛普生科技股份有限公司 110臺北市信義區松仁路100號15樓
製造廠商	Seiko Epson Corporation
產品名稱	Intelligent Controller
廠牌	EPSON
型號	BO-IC400
發射功率	802.11 b: 22.41 dBm (Peak) 802.11 g: 24.20 dBm (Peak) 802.11 n (2.4GHz) HT 20 mode:23.70dBm (Peak) 802.11 n (2.4GHz) HT 40 mode:24.62dBm (Peak)
工作頻率	802.11b/g/n (2.4GHz) HT20: 2412MHz – 2462MHz 802.11n (2.4GHz) HT40: 2422MHz – 2452MHz
調變方式	DSSS/OFDM
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：109年01月30日起至110年06月13日止

試驗件收樣日期 民國109年05月29日

試驗受理日期 民國109年05月21日

試驗執行日期 民國109年05月29日~民國109年07月03日

報告發行日期 民國109年07月28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
E2/2020/50105	Rev.00	Original.	Jul. 28, 2020	Revised By: Tiffany Kao

Note:

1. 電源傳導干擾之量測結果的測試模式為各個無線功能全開，此量測數據經評估為最差模式。
2. 測試報告 E2/2020/50103 之電源線傳導干擾測試數據，沿用於 E2/2020/50105 報告中。
3. Fully System 之量測結果的測試模式為各個無線功能全開，此量測數據經評估為最差模式。
4. 測試報告 E2/2020/50103 之 Fully System 測試數據，沿用於 E2/2020/50105 報告中。
5. 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。

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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。
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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： 109年01月30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	2.586dB
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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1 一般資料

1.1 產品描述

產品名稱	Intelligent Controller	
產品型號	BO-IC400	
產品商標	EPSON	
Hardware Version	DVT	
Software Version	Android 9	
USB Cable	Model No.: D0017100R2AHR, Supplier: HOTRON	
使用電源	3.85Vdc from Rechargeable Li-ion polymer Battery or 5V from AC/DC Adapter	
	Battery:	Model No.: EAR1B Supplier: ShenZhen KAYO Battery Co., Ltd.

WLAN 2.4GHz:

Wi-Fi	發射頻帶	頻道數	輸出功率	Modulation Technology
11b/g	2412-2462	11	b: 22.41 dBm g: 24.20 dBm	DSSS, OFDM
11n	HT20 2412-2462	11	23.70 dBm	OFDM
11n	HT40 2422-2452	7	24.62 dBm	OFDM
調變方式:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps		

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天線型式/天線增益

天線型式	Supplier	Part No.	發射頻帶(MHz)	天線增益(dBi)
PIFA	Kuang Ho Technology CO., LTD	K1606-00028F1BS1	2412-2462	0.2 (Chin 0)
PIFA	Kuang Ho Technology CO., LTD	K1606-00029E1BS1		2.7 (Chin 1)

本案經申請者切結器材不提供隨貨配件，配件由申請者提供併同檢驗，產品名稱: Adapter，廠牌: APD，型號: WB-10E05R。

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: Headphone，廠牌: ASUS，型號: ZenEar；產品名稱: Micro SD Card，廠牌: Transcend，型號: 8GB；產品名稱: USB Cable，廠牌: I Max，型號: USB-C1200。

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1.2 產品特性

此裝置符合IEEE Std 802.11b/g/n標準。其發射頻率落於2.4GHz至2.4835GHz。

802.11b mode採用直接序列展頻 (Direct Sequence Spread Spectrum) 調變技術之發射頻率全段：落於2400~2483.5GHz共有11個頻道；802.11g/n HT20, HT40 mode採用正交分頻多工OFDM調變技術有全段：落於2400~2483.5GHz 共有11個頻道。802.11n HT40 mode採用正交分頻多工OFDM調變技術有全段：落於2400~2483.5GHz 共有7個頻道。

2.4 GHz使用頻率表如下：

802.11b/g/n_HT 20Mode	
頻率範圍 2400 MHz – 2483.5 MHz	
2412	2442
2417	2447
2422	2452
2427	2457
2432	2462
2437	

802.11n_HT 40Mode	
頻率範圍 2400 MHz – 2483.5 MHz	
2422	2442
2427	2447
2432	2452
2437	

1.3 最差量測模式

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	PLAN
RADIATED EMISSION TEST (BELOW 1 GHz)					
802.11g	1 to 11	6	OFDM	6	E2
802.11n (HT40)	3 to 9	6	OFDM	MCS 8	
Fully System					
RADIATED EMISSION TEST (ABOVE 1 GHz)					
802.11b	1 to 11	1, 6, 11	DSSS	1	E2
802.11g	1 to 11	1, 6, 11	OFDM	6	
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	

CONDUCTED TEST :				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1,6,11	DSSS	1
802.11g	1 to 11	1,6,11	OFDM	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8

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1.4 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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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3.10.1.5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 (特殊規定)

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
* Intelligent Controller	Seiko Epson Corporation / 台灣愛普生科技股份有限公司	BO-IC400

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

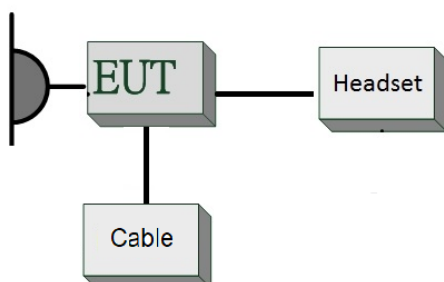
Radiated Emission



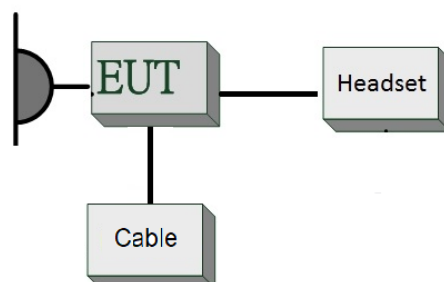
Conducted (Antenna Port)



Conduction (Fully System Mode 1 & 2)



Radiated Emission (Fully System)



3.2 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	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Adapter	ADP	WB-10E05R	N/A	Un-shielding	Un-shielding
3	Headphone	ASUS	ZenEar	AHSU001	N/A	N/A
4	Notebook	Lenovo	L440	P0000367	Un-shielding	Un-shielding
5	USB Cable	I MAX	USB-C1200	USB to Type-c	N/A	N/A
6	Micro SD Card	Transcend	8GB	N/A	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	04/27/2021

4.2 天線端傳導測試之量測儀器

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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	MVE2213-10	RF80	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020
Spectrum Analyzer	KEYSIGHT	N9010B	MY59070196	03/22/2020	03/21/2021
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
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.
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/10/2020	01/09/2021
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021
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

4.4 量測場強輻射之量測儀器 For Fully System

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
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
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

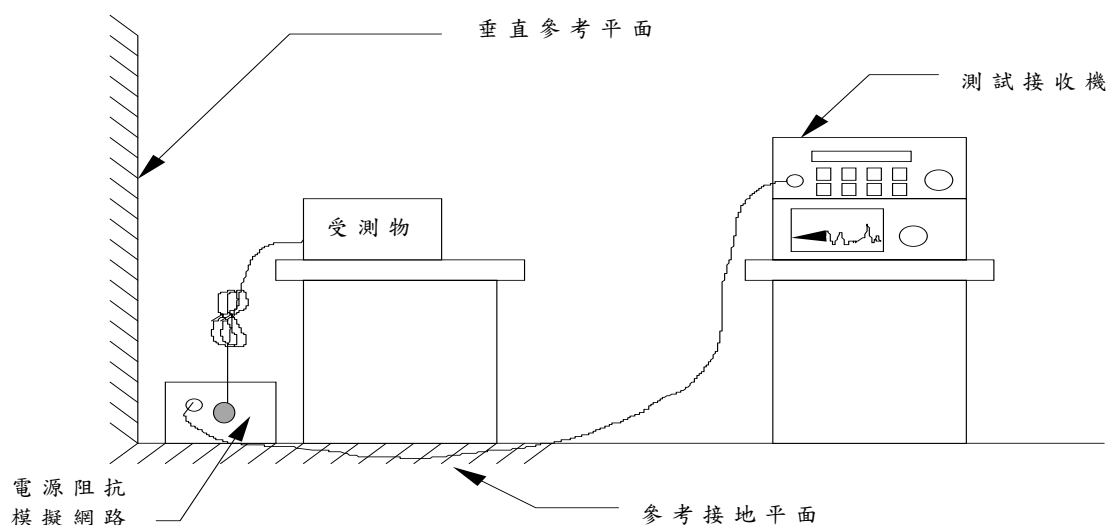
5.1 適用標準

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。

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

Report Number : E2/2020/50103

Test Site : Conduction Room C

Test Mode : System

Test Date : 2020-07-02

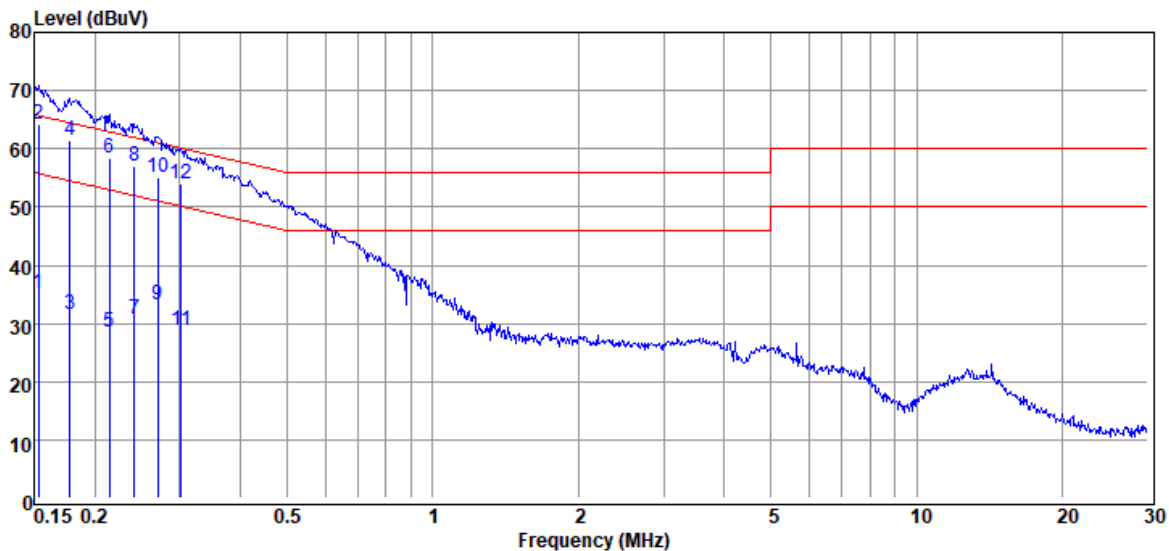
Power : 110V/60Hz

Temp./Humi. : 23.6/67

Probe : L1

Engineer : Ashton

Note: : Mode 1 (底部USB Type-C 接頭充電)



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
0.15	Average	24.80	10.22	35.02	55.82	-20.80
0.15	QP	54.10	10.22	64.32	65.82	-1.50
0.18	Average	21.40	10.22	31.62	54.59	-22.97
0.18	QP	51.20	10.22	61.42	64.59	-3.17
0.22	Average	18.20	10.22	28.42	53.01	-24.59
0.22	QP	48.20	10.22	58.42	63.01	-4.59
0.24	Average	20.40	10.22	30.62	52.04	-21.42
0.24	QP	46.80	10.22	57.02	62.04	-5.02
0.27	Average	22.90	10.22	33.12	51.12	-18.00
0.27	QP	44.90	10.22	55.12	61.12	-6.00
0.30	Average	18.50	10.22	28.72	50.19	-21.47
0.30	QP	43.70	10.22	53.92	60.19	-6.27

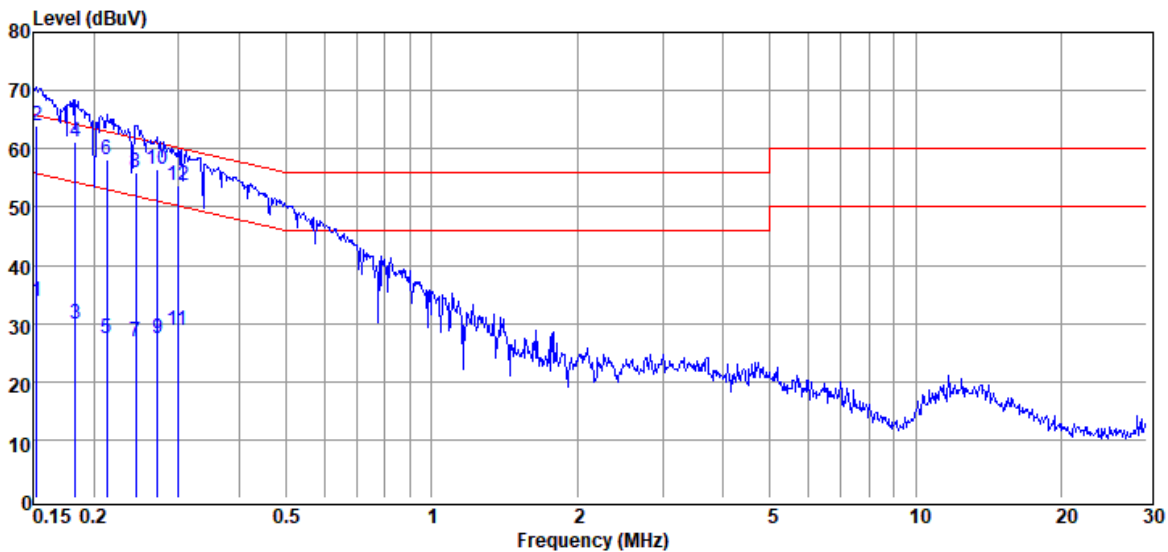
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Report Number :E2/2020/50103
Test Mode :System
Power :110V/60Hz
Probe :N
Note: : Mode 1

Test Site : Conduction Room C
Test Date :2020-07-02
Temp./Humi. :23.6/67
Engineer :Ashton



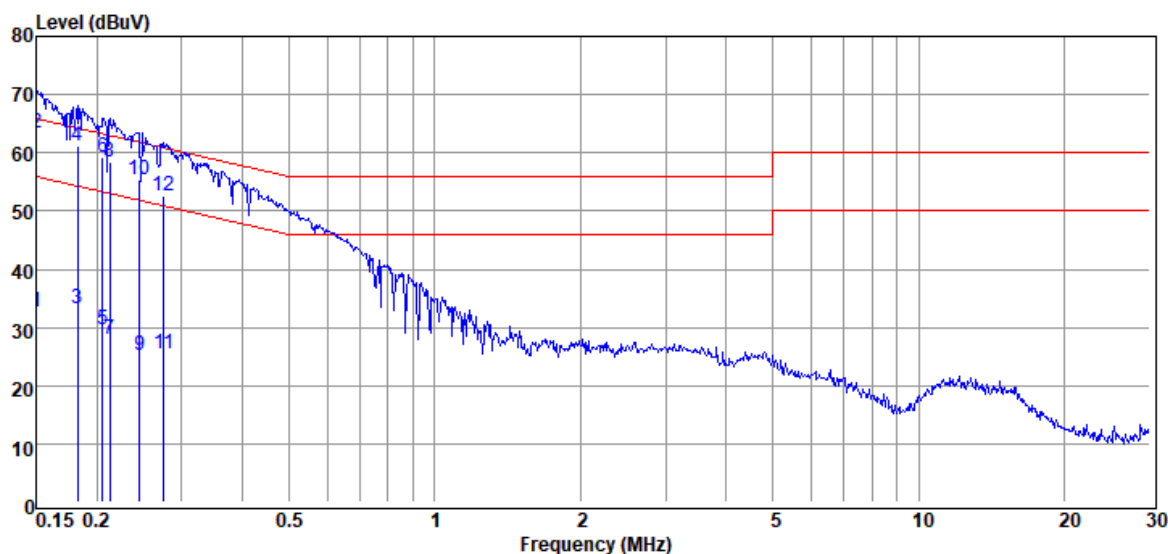
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
0.15	Average	23.50	10.21	33.71	55.87	-22.16
0.15	QP	53.80	10.21	64.01	65.87	-1.86
0.18	Average	19.80	10.21	30.01	54.33	-24.32
0.18	QP	50.90	10.21	61.11	64.33	-3.22
0.21	Average	17.30	10.21	27.51	53.10	-25.59
0.21	QP	47.80	10.21	58.01	63.10	-5.09
0.24	Average	16.60	10.21	26.81	51.95	-25.14
0.24	QP	45.60	10.21	55.81	61.95	-6.14
0.27	Average	17.20	10.21	27.41	51.07	-23.66
0.27	QP	46.30	10.21	56.51	61.07	-4.56
0.30	Average	18.60	10.22	28.82	50.28	-21.46
0.30	QP	43.40	10.22	53.62	60.28	-6.66

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Report Number	:E2/2020/50103	Test Site	: Conduction Room C
Test Mode	:System	Test Date	:2020-07-02
Power	:110V/60Hz	Temp./Humi.	:24.0/66
Probe	:L1	Engineer	:Ashton
Note:	: Mode 2 (側面護蓋USB Type-C 接頭充電)		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
0.15	Average	22.40	10.22	32.62	56.00	-23.38
0.15	QP	53.30	10.22	63.52	66.00	-2.48
0.18	Average	22.90	10.22	33.12	54.37	-21.25
0.18	QP	51.00	10.22	61.22	64.37	-3.15
0.21	Average	19.50	10.22	29.72	53.36	-23.64
0.21	QP	48.90	10.22	59.12	63.36	-4.24
0.22	Average	17.70	10.22	27.92	53.10	-25.18
0.22	QP	48.10	10.22	58.32	63.10	-4.78
0.25	Average	14.90	10.22	25.12	51.91	-26.79
0.25	QP	45.10	10.22	55.32	61.91	-6.59
0.28	Average	15.20	10.22	25.42	50.94	-25.52
0.28	QP	42.50	10.22	52.72	60.94	-8.22

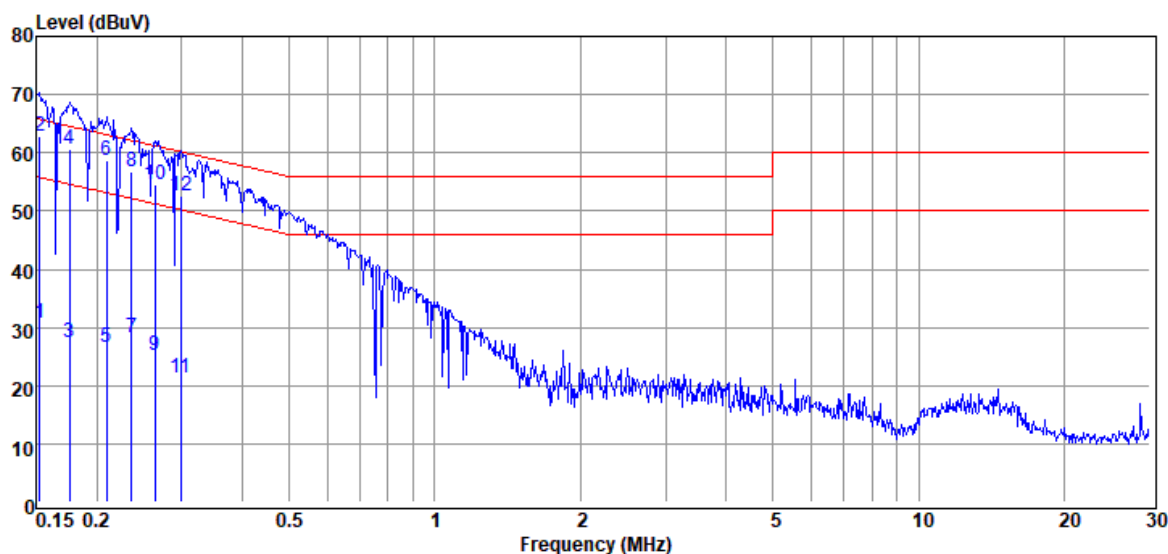
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Report Number :E2/2020/50103
Test Mode :System
Power :110V/60Hz
Probe :N
Note: : Mode 2

Test Site : Conduction Room C
Test Date :2020-07-02
Temp./Humi. :24.0/66
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
0.15	Average	20.60	10.21	30.81	55.87	-25.06
0.15	QP	52.70	10.21	62.91	65.87	-2.96
0.18	Average	17.30	10.21	27.51	54.68	-27.17
0.18	QP	50.30	10.21	60.51	64.68	-4.17
0.21	Average	16.40	10.21	26.61	53.23	-26.62
0.21	QP	48.40	10.21	58.61	63.23	-4.62
0.24	Average	17.90	10.21	28.11	52.22	-24.11
0.24	QP	46.40	10.21	56.61	62.22	-5.61
0.26	Average	14.90	10.21	25.11	51.29	-26.18
0.26	QP	44.30	10.21	54.51	61.29	-6.78
0.30	Average	11.10	10.22	21.32	50.28	-28.96
0.30	QP	42.30	10.22	52.52	60.28	-7.76

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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。

以下為頻譜儀的設定：

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/Average

1GHz 以上測試

量測天線:	BBHA9170, BBHA9120D	檢測器:	Peak
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: $\text{Actual FS(dB}\mu\text{V/m)} = \text{SPA. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$

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

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

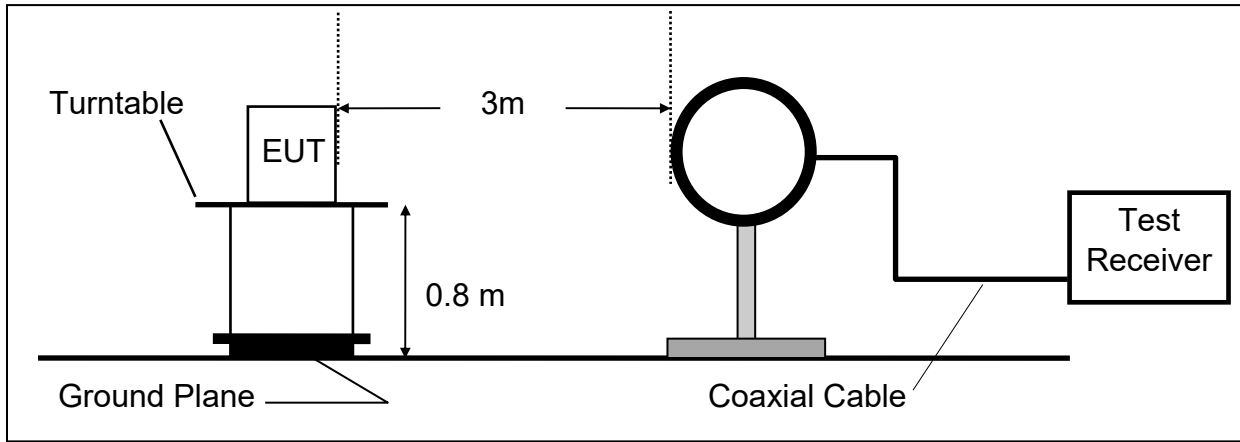
f (886-2) 2298-0488

www.tw.sgs.com

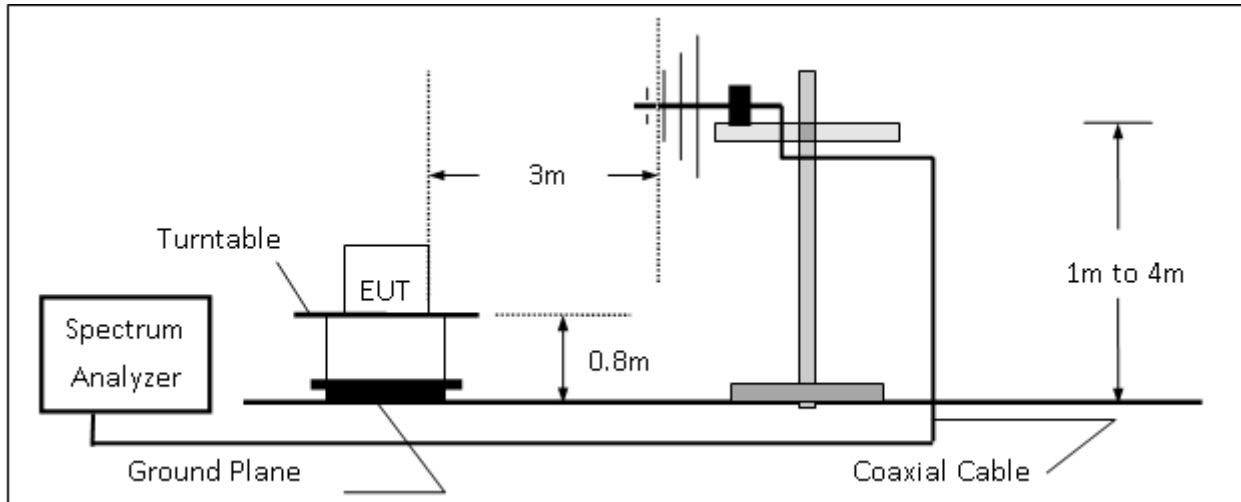
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6.4 輻射之測試配置

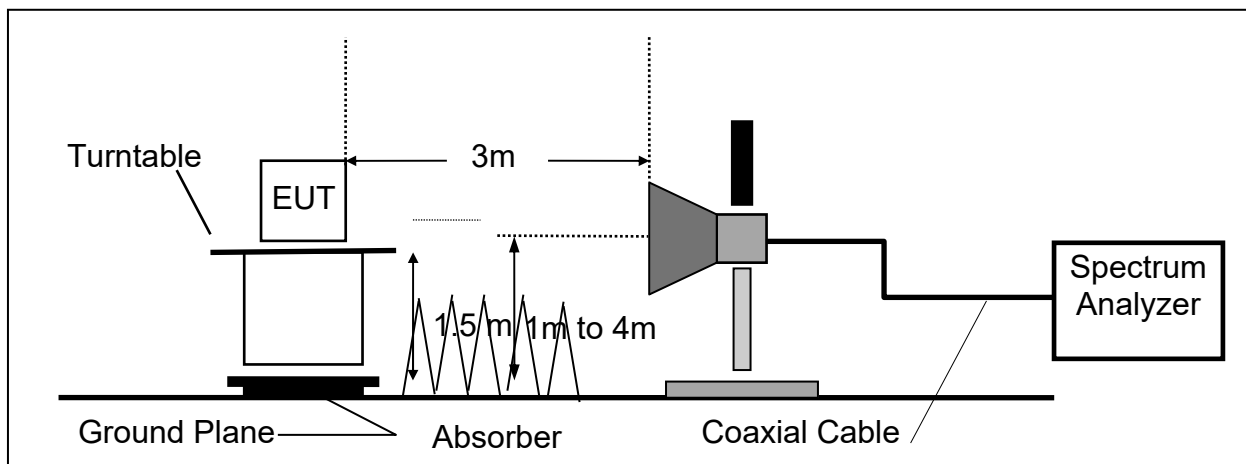
(A) 量測頻率低於 30MHz 以下之測試配置



(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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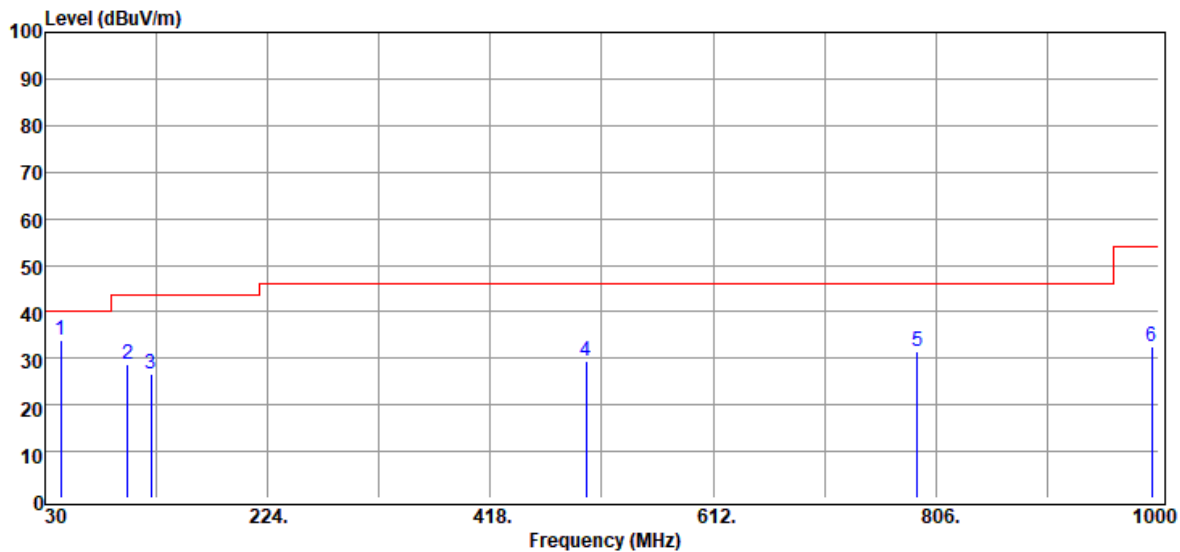
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6.5 場強輻射之量測結果

6.5.1 發射模式 1GHz 以下測試 (最差模式)

Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.8/57
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
43.58	Peak	45.26	-11.27	33.99	40.00	-6.01
101.78	Peak	44.07	-15.21	28.86	43.50	-14.64
122.15	Peak	39.32	-12.83	26.49	43.50	-17.01
501.42	Peak	34.44	-5.10	29.34	46.00	-16.66
789.51	Peak	31.38	0.23	31.61	46.00	-14.39
994.18	Peak	30.97	1.69	32.66	54.00	-21.34

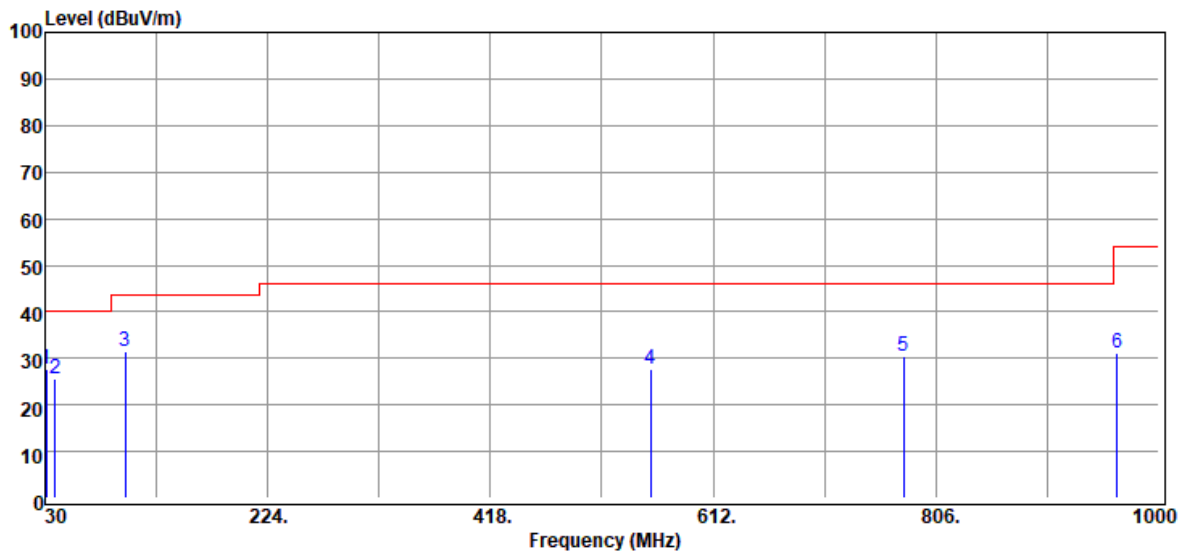
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.8/57
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
30.97	Peak	31.46	-3.89	27.57	40.00	-12.43
38.73	Peak	33.49	-7.95	25.54	40.00	-14.46
99.84	Peak	47.29	-15.66	31.63	43.50	-11.87
557.68	Peak	31.16	-3.40	27.76	46.00	-18.24
777.87	Peak	30.45	0.05	30.50	46.00	-15.50
964.11	Peak	29.79	1.30	31.09	54.00	-22.91

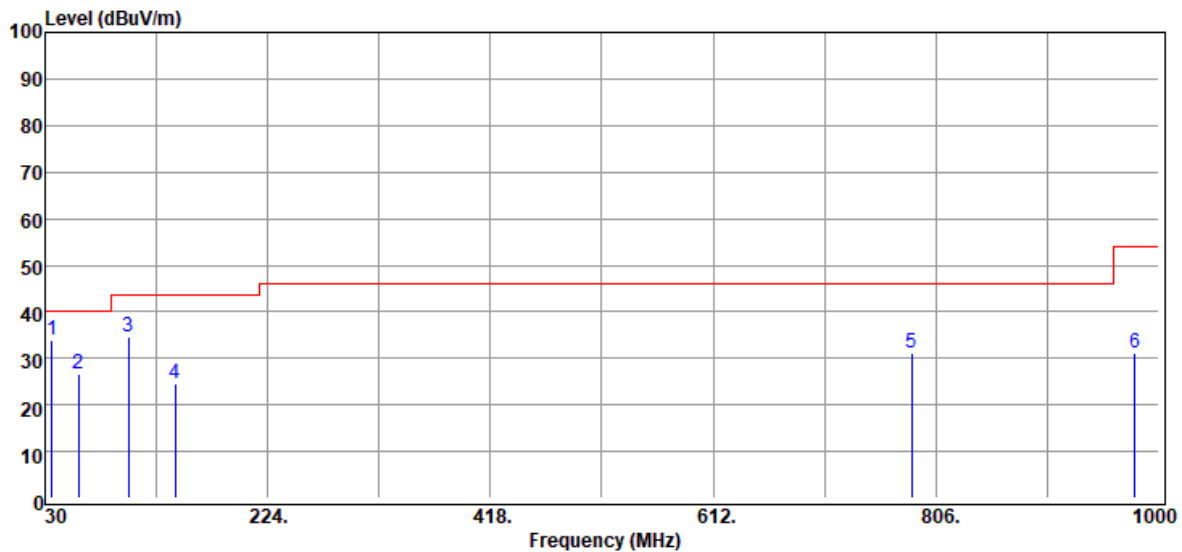
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.9/58
 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	Peak	40.20	-6.15	34.05	40.00	-5.95
59.10	Peak	47.14	-20.43	26.71	40.00	-13.29
102.75	Peak	49.72	-15.14	34.58	43.50	-8.92
143.49	Peak	37.95	-13.29	24.66	43.50	-18.84
784.66	Peak	31.05	0.21	31.26	46.00	-14.74
979.63	Peak	29.44	1.86	31.30	54.00	-22.70

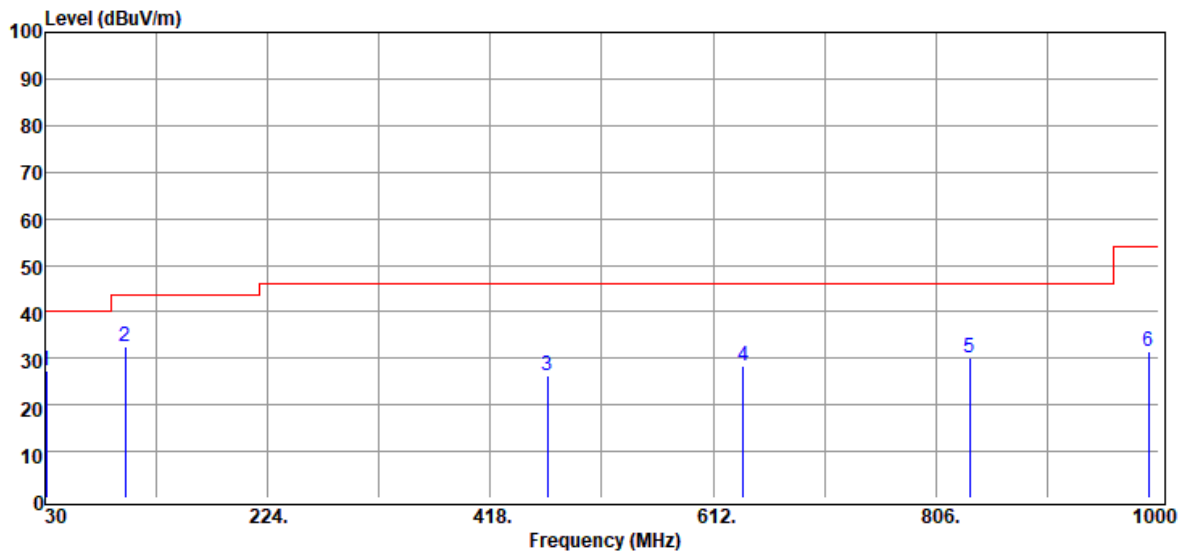
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.9/58
 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
30.97	Peak	31.21	-3.89	27.32	40.00	-12.68
99.84	Peak	48.30	-15.66	32.64	43.50	-10.86
467.47	Peak	31.88	-5.60	26.28	46.00	-19.72
638.19	Peak	30.42	-1.96	28.46	46.00	-17.54
835.10	Peak	29.84	0.10	29.94	46.00	-16.06
991.27	Peak	29.66	1.74	31.40	54.00	-22.60

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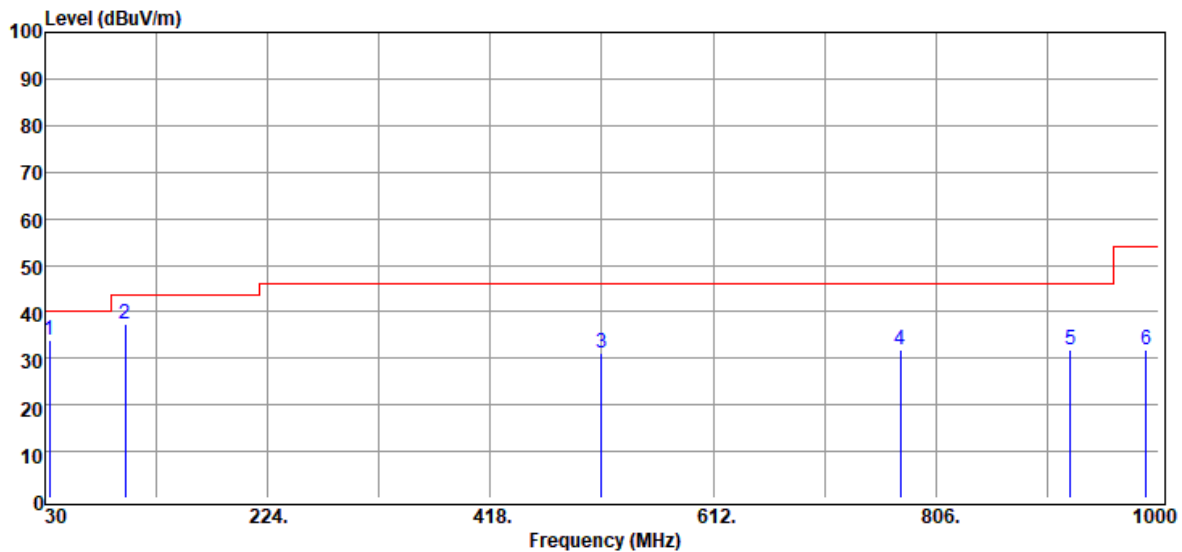
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System

Report Number :E2/2020/50103
 Operation Mode :System
 Test Frequency :System
 Test Mode :System
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.6/64
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
33.88	Peak	39.06	-5.12	33.94	40.00	-6.06
99.84	Peak	53.05	-15.66	37.39	43.50	-6.11
515.00	Peak	36.24	-5.05	31.19	46.00	-14.81
774.96	Peak	31.78	-0.02	31.76	46.00	-14.24
923.37	Peak	30.67	1.27	31.94	46.00	-14.06
989.33	Peak	30.14	1.75	31.89	54.00	-22.11

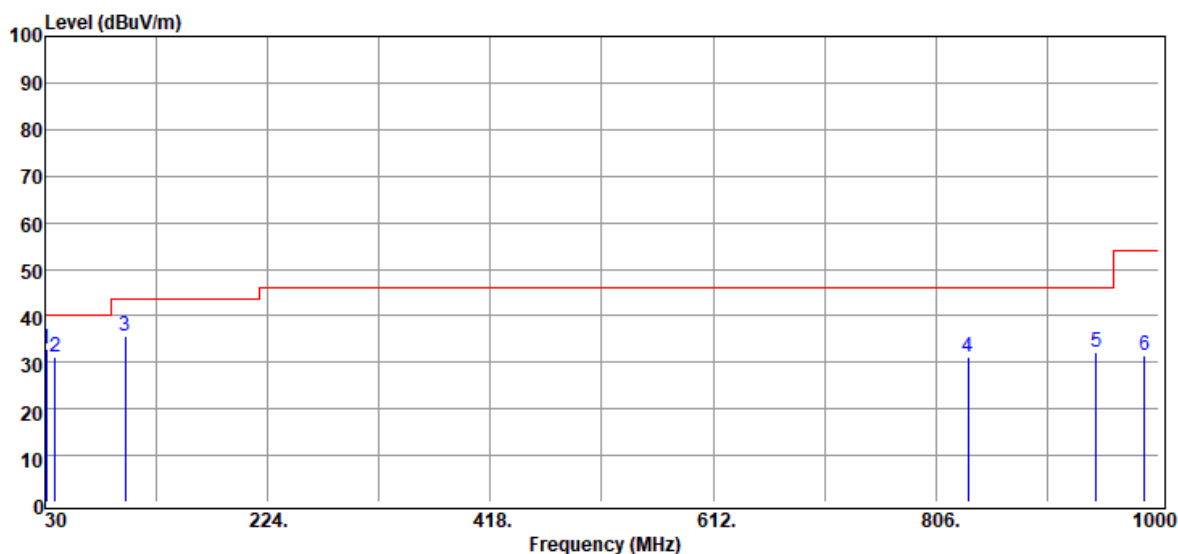
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Report Number :E2/2020/50103
 Operation Mode :System
 Test Frequency :System
 Test Mode :System
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.6/64
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.97	Peak	36.79	-3.89	32.90	40.00	-7.10
38.73	Peak	39.23	-7.95	31.28	40.00	-8.72
99.84	Peak	51.38	-15.66	35.72	43.50	-7.78
834.13	Peak	30.96	0.11	31.07	46.00	-14.93
945.68	Peak	30.68	1.43	32.11	46.00	-13.89
987.39	Peak	29.66	1.76	31.42	54.00	-22.58

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SGS Taiwan Ltd.

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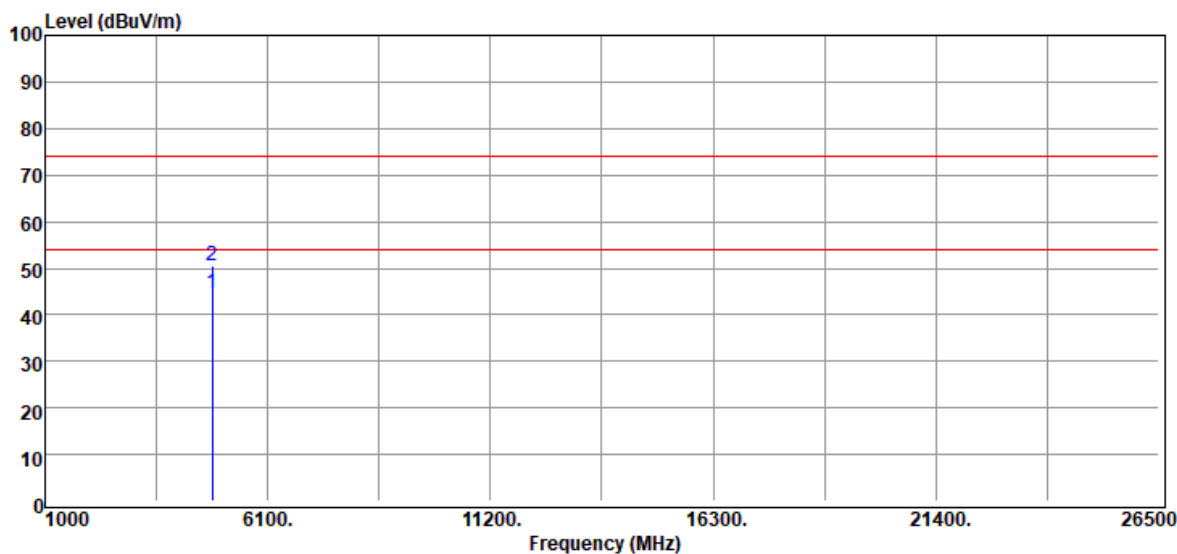
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6.5.2 發射模式 1GHz 以上測試

Report Number :E2/2020/50105
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	30.70	14.10	44.80	54.00	-9.20
4824.00	Peak	36.30	14.10	50.40	74.00	-23.60

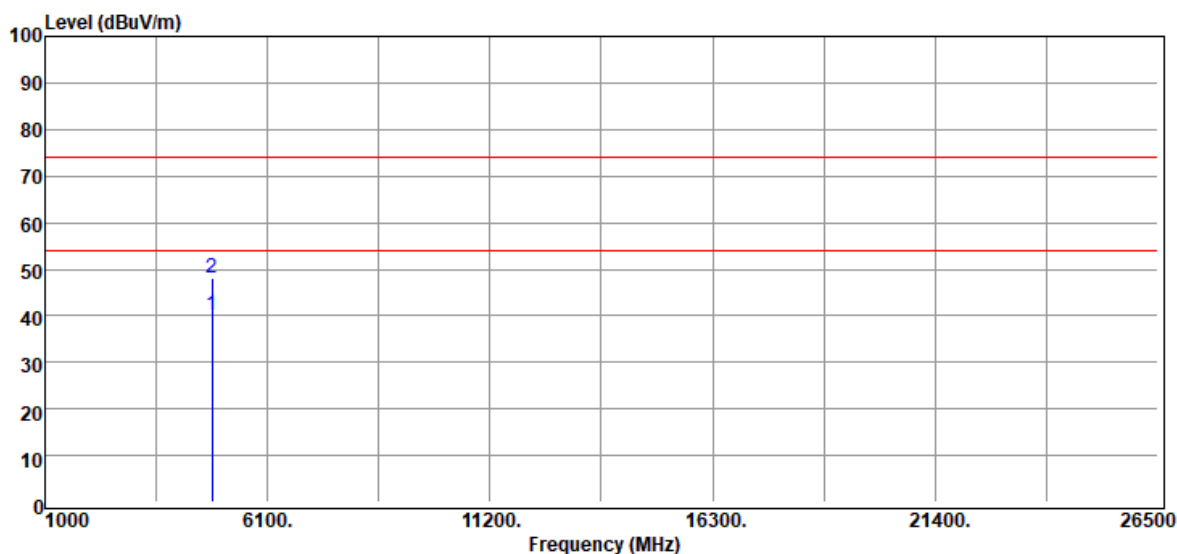
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Report Number :E2/2020/50105
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	25.92	14.10	40.02	54.00	-13.98
4824.00	Peak	33.92	14.10	48.02	74.00	-25.98

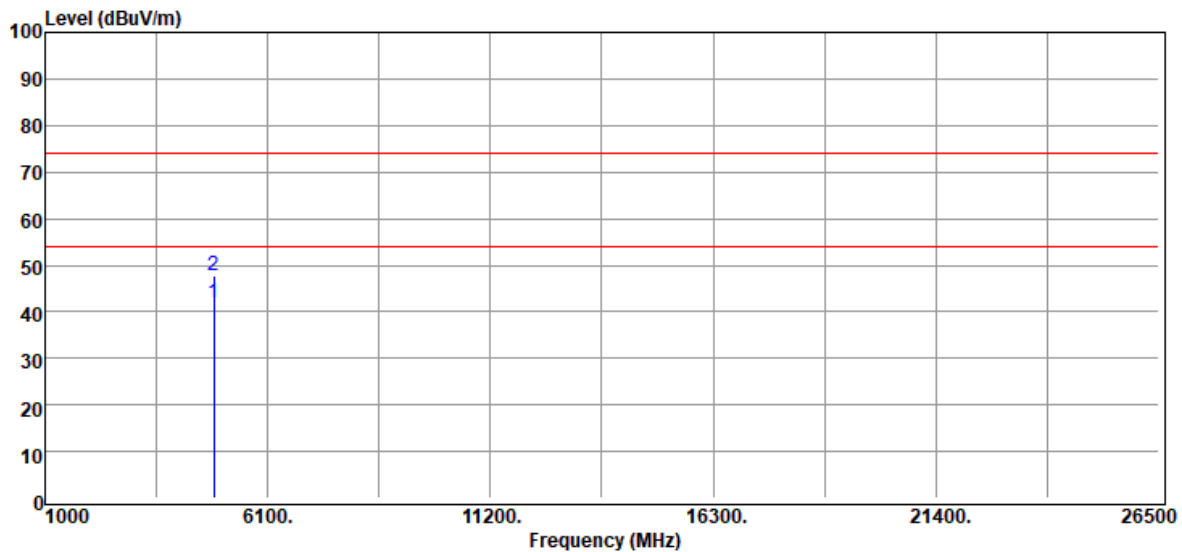
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Report Number :E2/2020/50105
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	27.83	14.19	42.02	54.00	-11.98
4874.00	Peak	33.71	14.19	47.90	74.00	-26.10

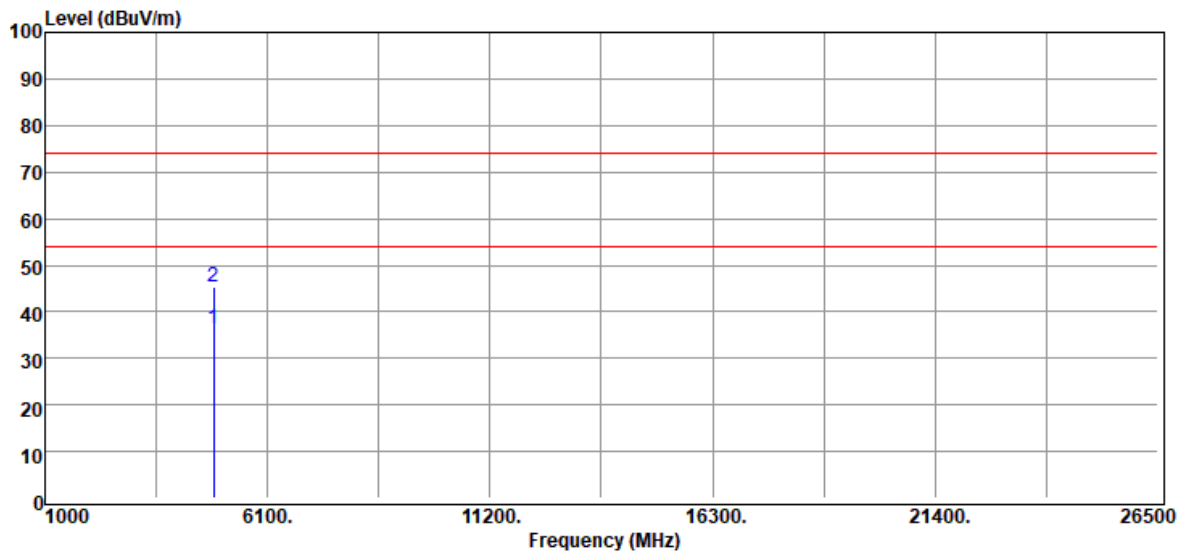
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Report Number :E2/2020/50105
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-05
Temp./Humi. :22.8/65
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	22.29	14.19	36.48	54.00	-17.52
4874.00	Peak	31.09	14.19	45.28	74.00	-28.72

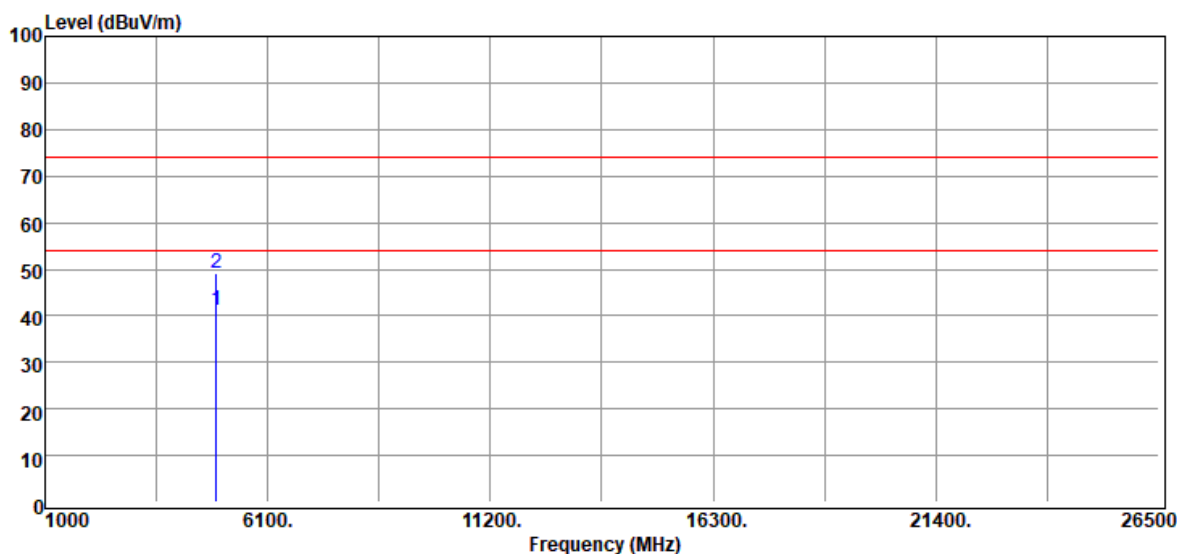
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Report Number :E2/2020/50105
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	26.92	14.19	41.11	54.00	-12.89
4924.00	Peak	35.05	14.19	49.24	74.00	-24.76

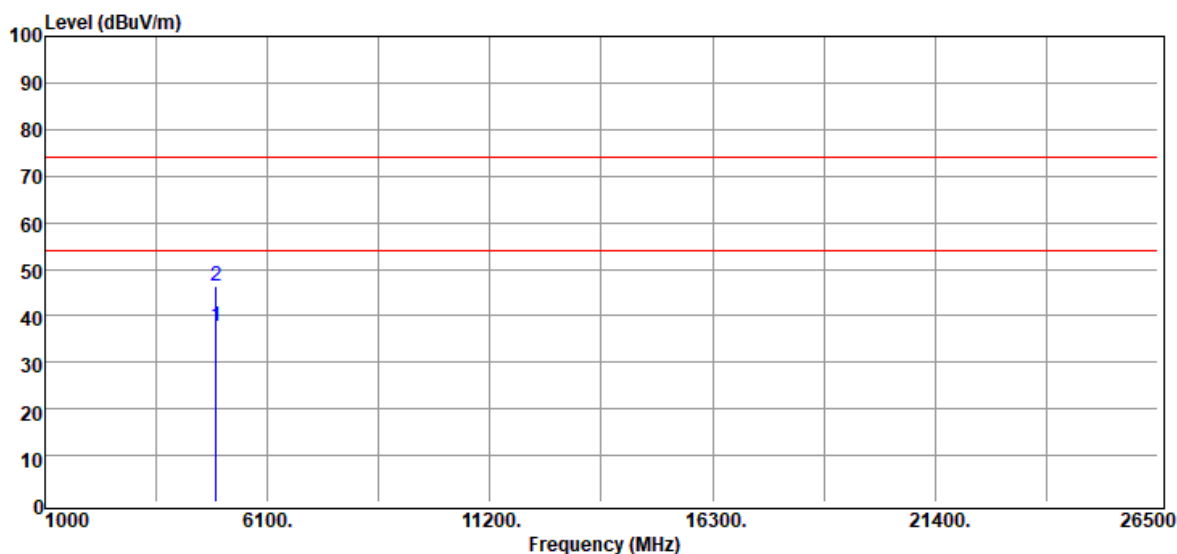
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Report Number :E2/2020/50105
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	23.50	14.19	37.69	54.00	-16.31
4924.00	Peak	32.31	14.19	46.50	74.00	-27.50

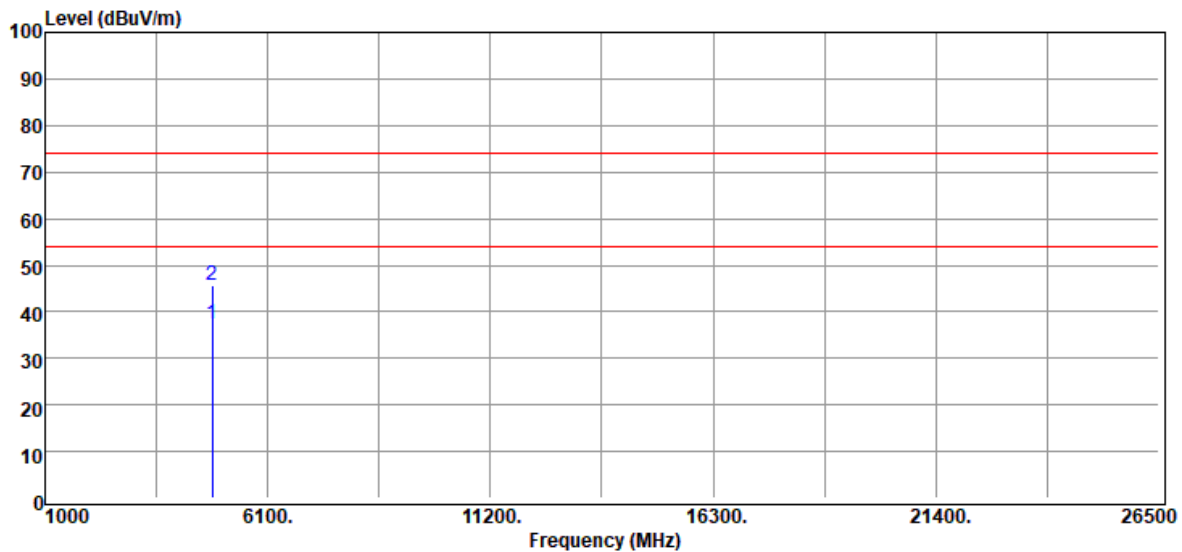
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	23.21	14.10	37.31	54.00	-16.69
4824.00	Peak	31.45	14.10	45.55	74.00	-28.45

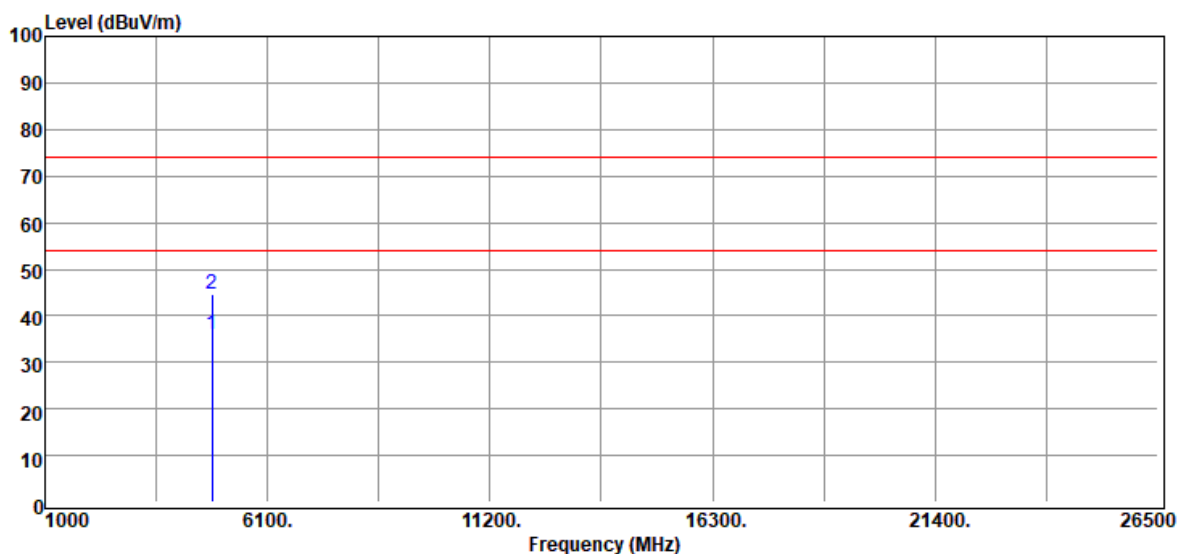
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	21.94	14.10	36.04	54.00	-17.96
4824.00	Peak	30.42	14.10	44.52	74.00	-29.48

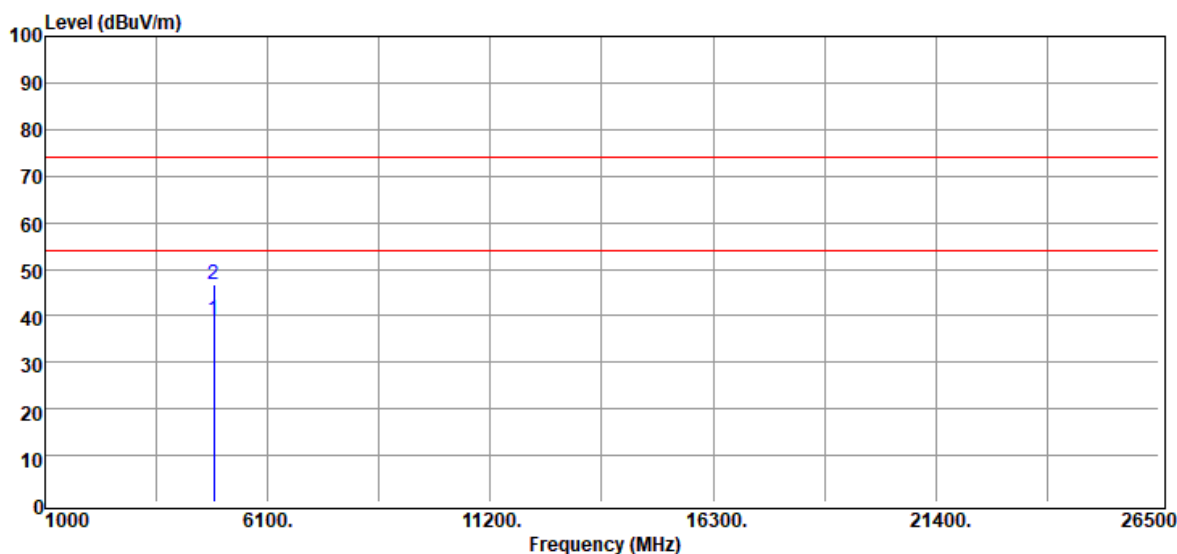
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	24.86	14.19	39.05	54.00	-14.95
4874.00	Peak	32.50	14.19	46.69	74.00	-27.31

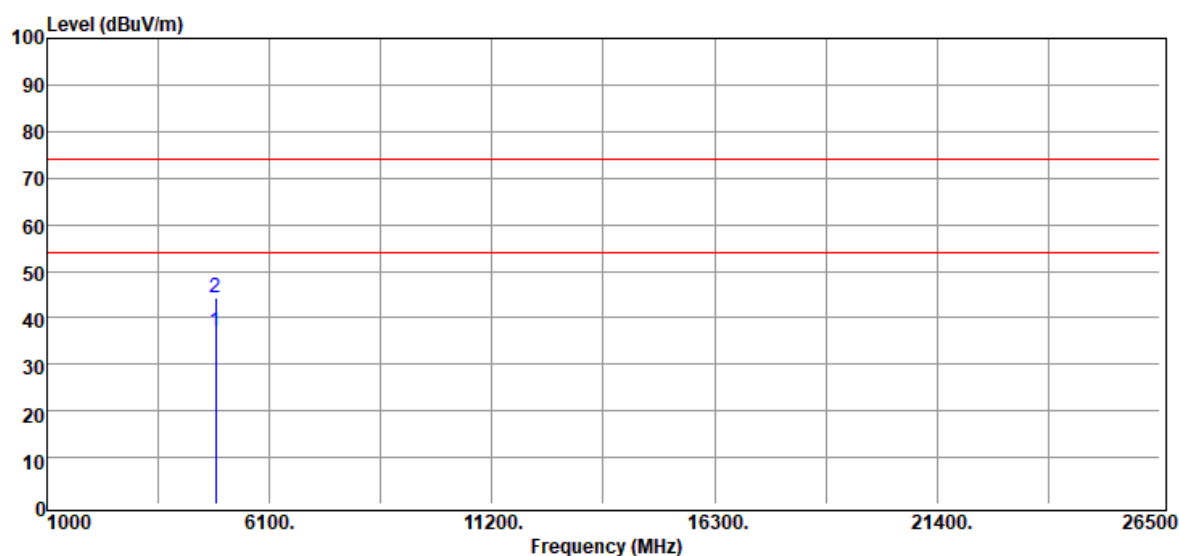
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	22.92	14.19	37.11	54.00	-16.89
4874.00	Peak	30.19	14.19	44.38	74.00	-29.62

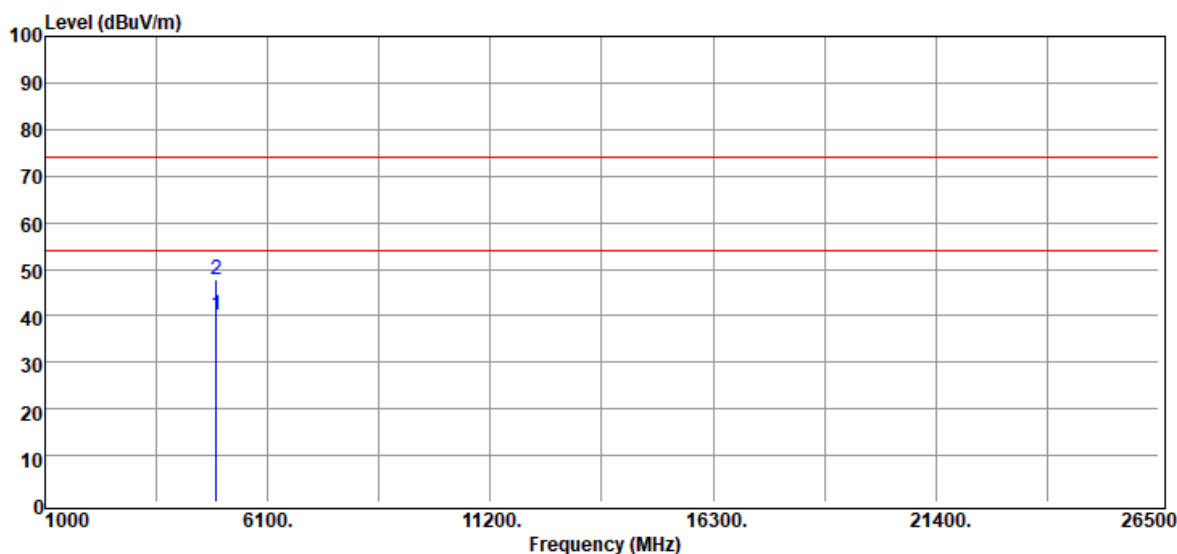
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	25.90	14.19	40.09	54.00	-13.91
4924.00	Peak	33.52	14.19	47.71	74.00	-26.29

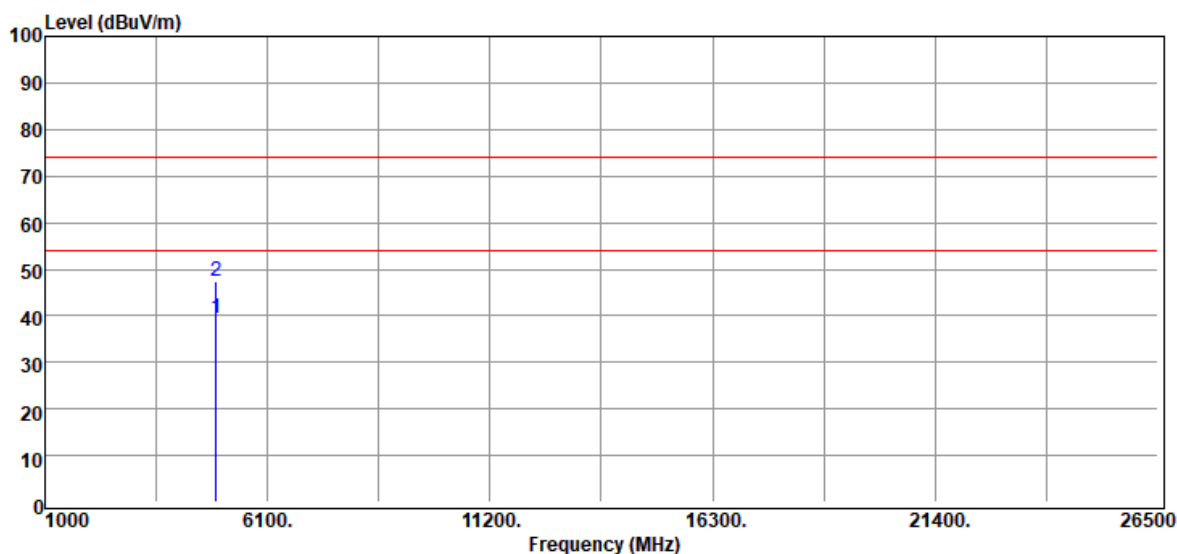
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	25.15	14.19	39.34	54.00	-14.66
4924.00	Peak	33.28	14.19	47.47	74.00	-26.53

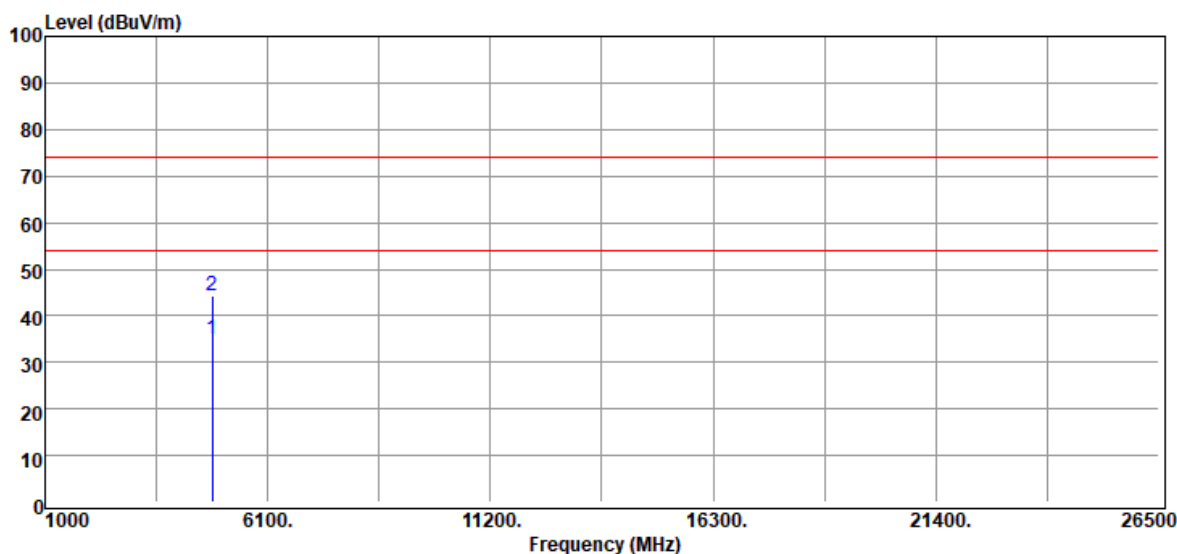
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Report Number :E2/2020/50105
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	20.73	14.10	34.83	54.00	-19.17
4824.00	Peak	30.13	14.10	44.23	74.00	-29.77

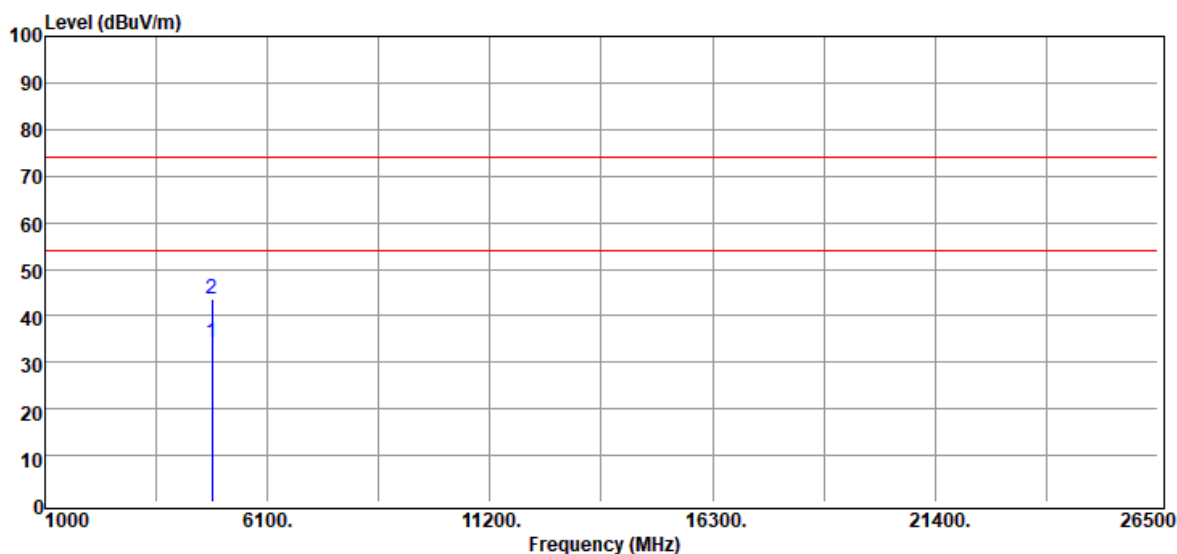
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Report Number :E2/2020/50105
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	20.01	14.10	34.11	54.00	-19.89
4824.00	Peak	29.37	14.10	43.47	74.00	-30.53

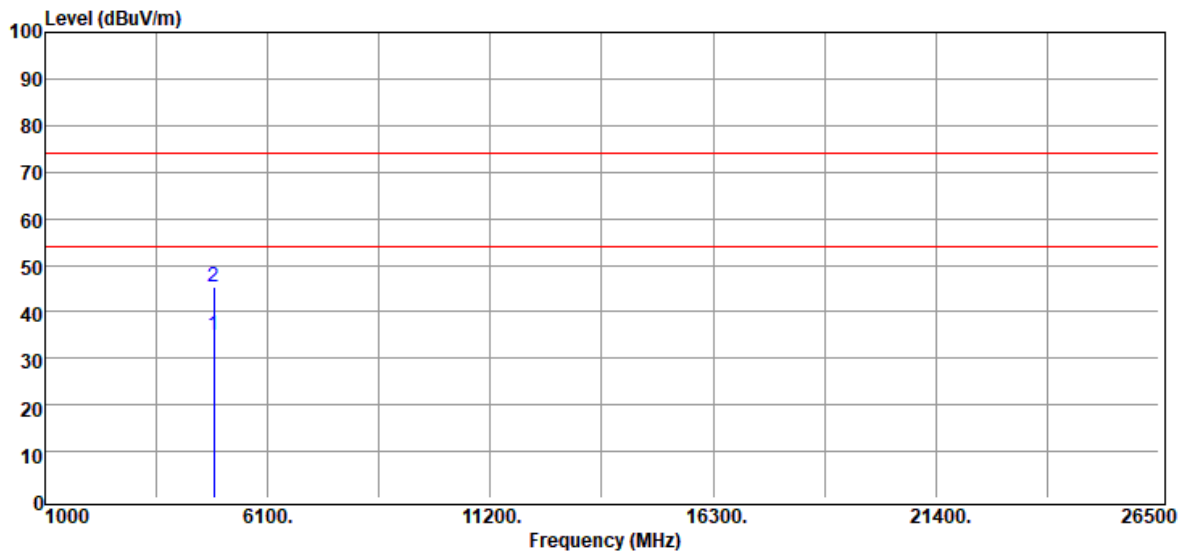
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Report Number :E2/2020/50105
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-05
Temp./Humi. :22.8/65
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	20.82	14.19	35.01	54.00	-18.99
4874.00	Peak	31.09	14.19	45.28	74.00	-28.72

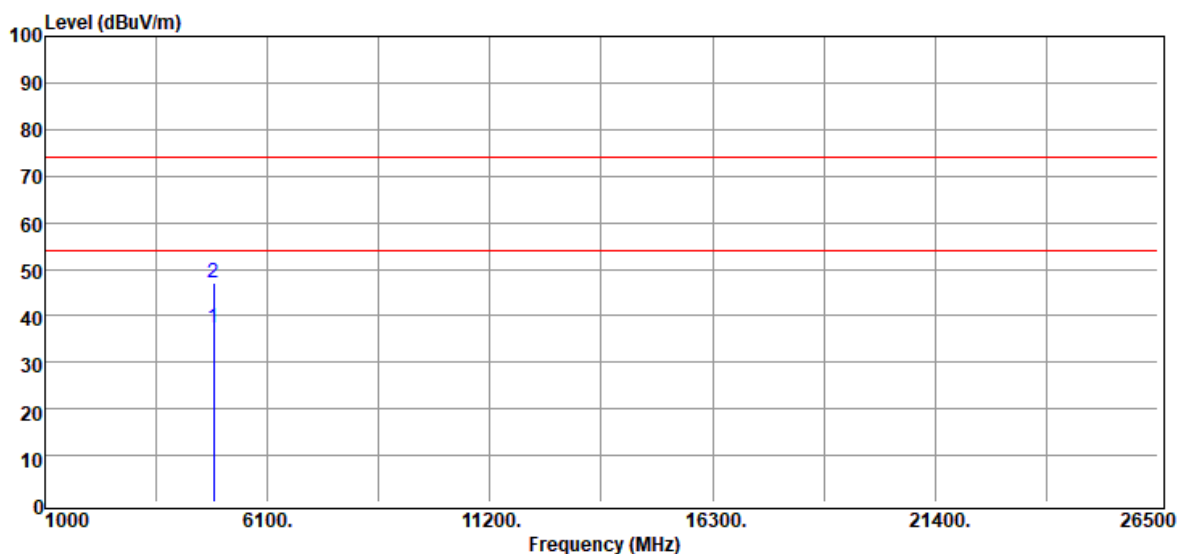
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Report Number :E2/2020/50105
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	23.12	14.19	37.31	54.00	-16.69
4874.00	Peak	32.99	14.19	47.18	74.00	-26.82

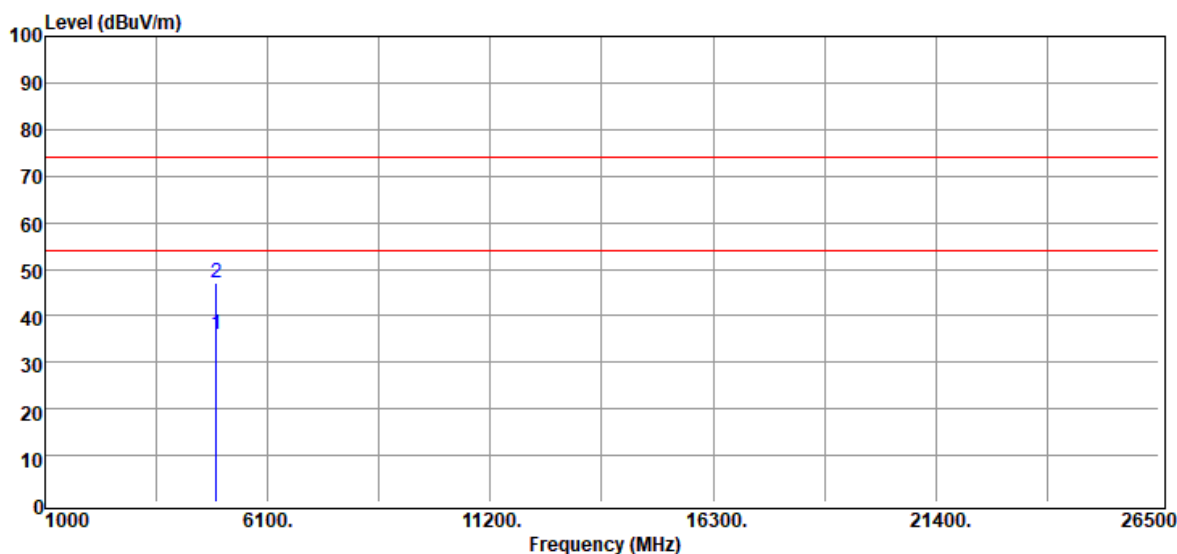
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Report Number :E2/2020/50105
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	21.68	14.19	35.87	54.00	-18.13
4924.00	Peak	32.74	14.19	46.93	74.00	-27.07

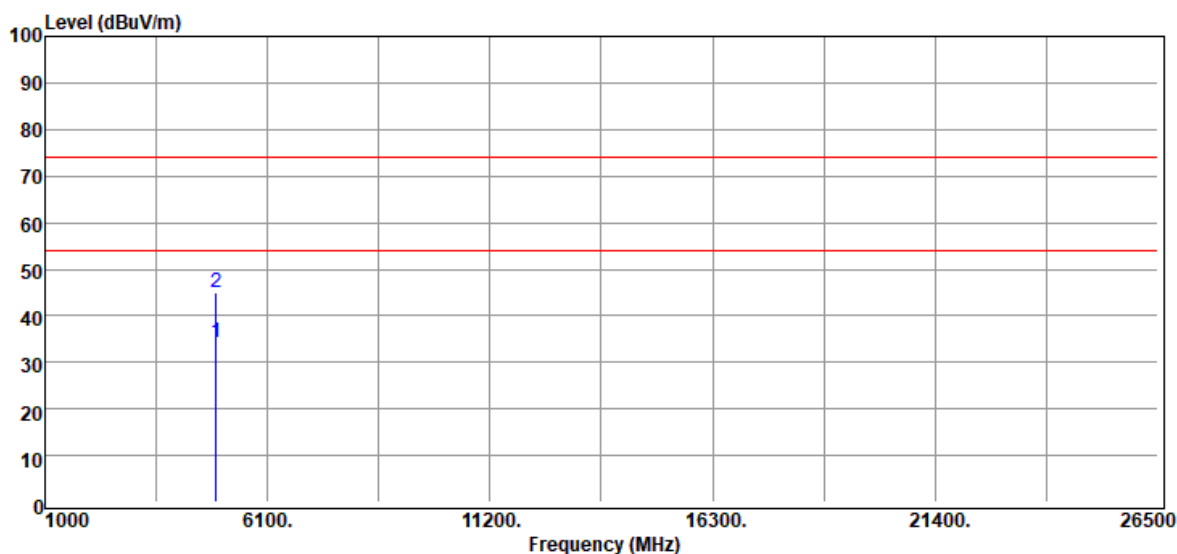
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Report Number :E2/2020/50105
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	20.04	14.19	34.23	54.00	-19.77
4924.00	Peak	30.82	14.19	45.01	74.00	-28.99

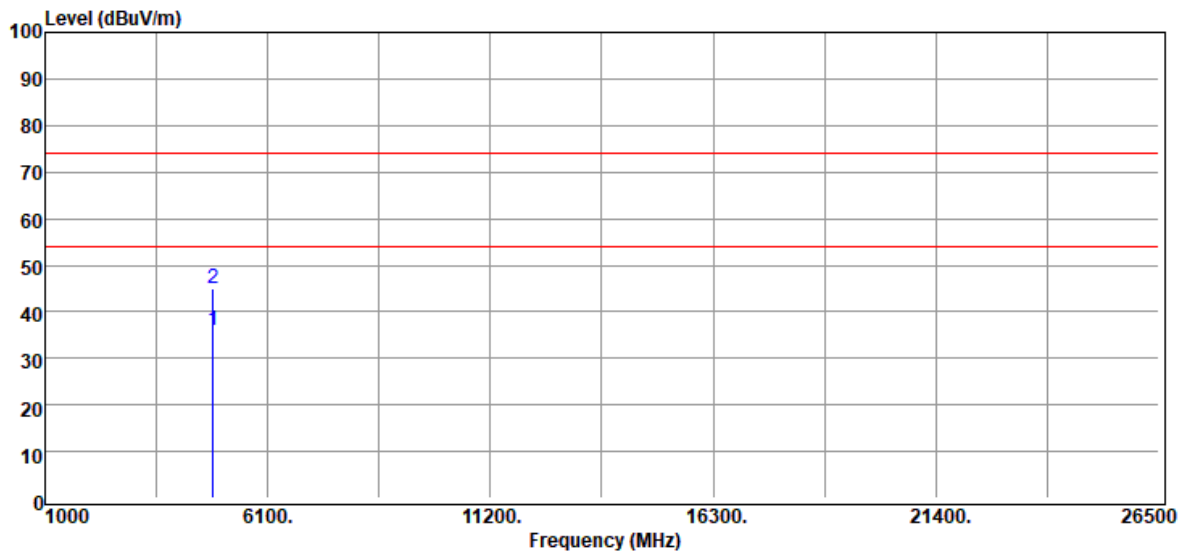
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	21.85	14.14	35.99	54.00	-18.01
4844.00	Peak	30.74	14.14	44.88	74.00	-29.12

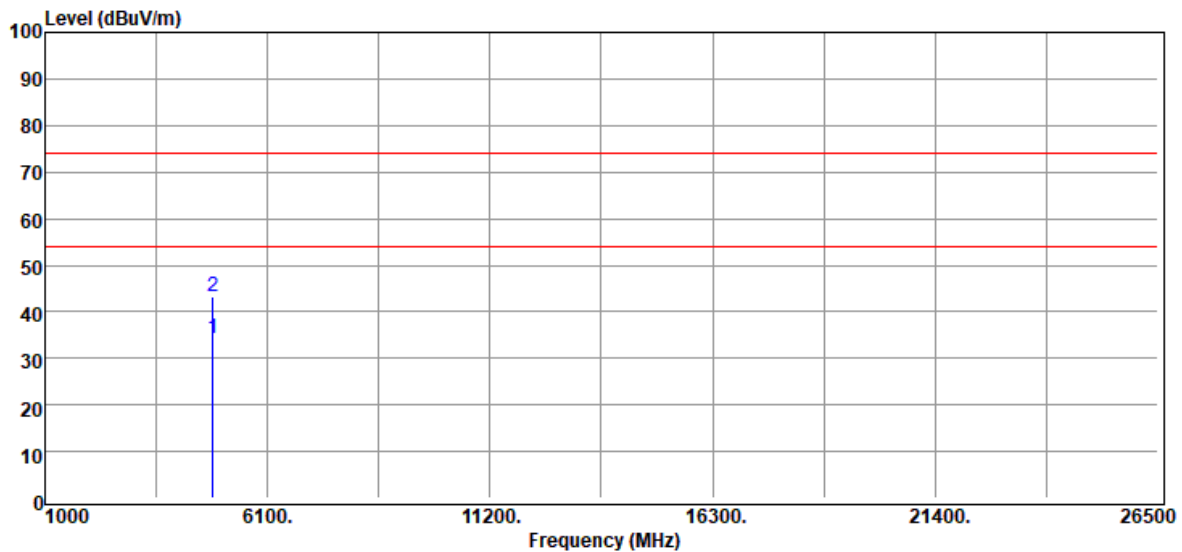
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	20.06	14.14	34.20	54.00	-19.80
4844.00	Peak	29.06	14.14	43.20	74.00	-30.80

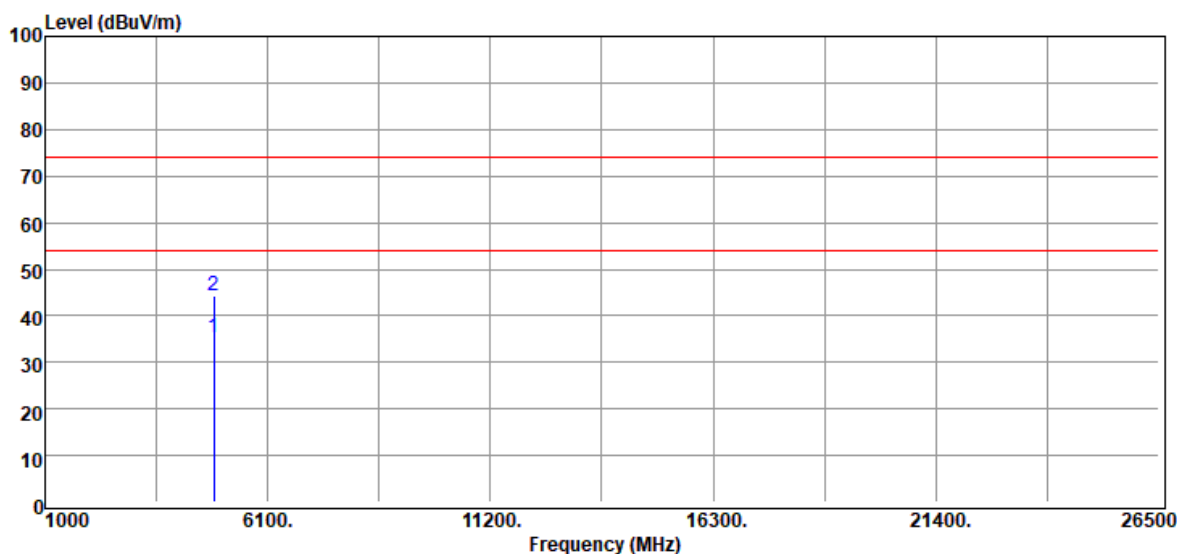
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	21.01	14.19	35.20	54.00	-18.80
4874.00	Peak	30.16	14.19	44.35	74.00	-29.65

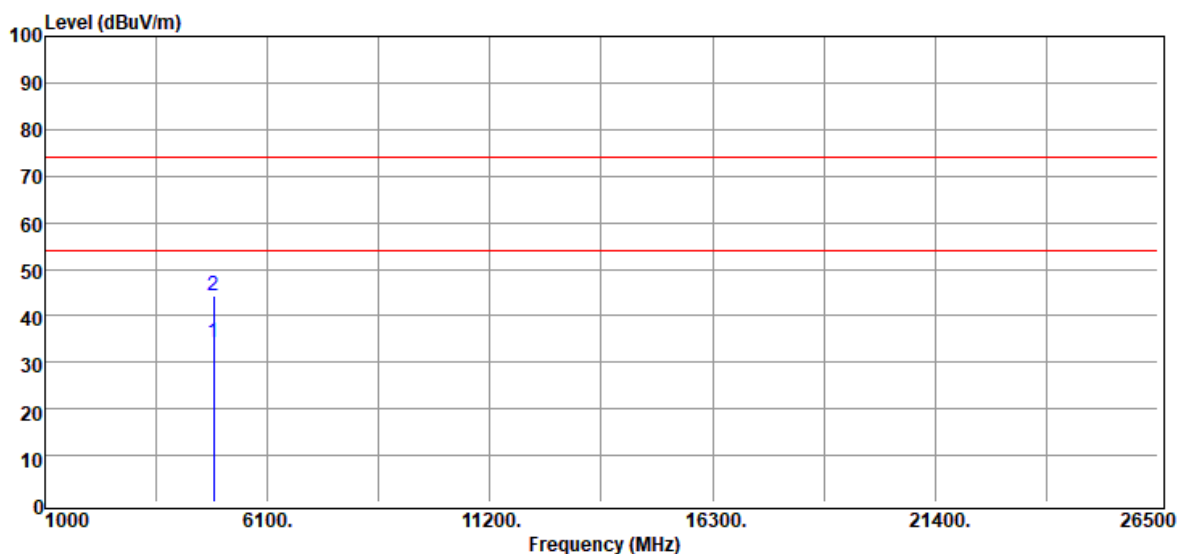
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	20.15	14.19	34.34	54.00	-19.66
4874.00	Peak	30.04	14.19	44.23	74.00	-29.77

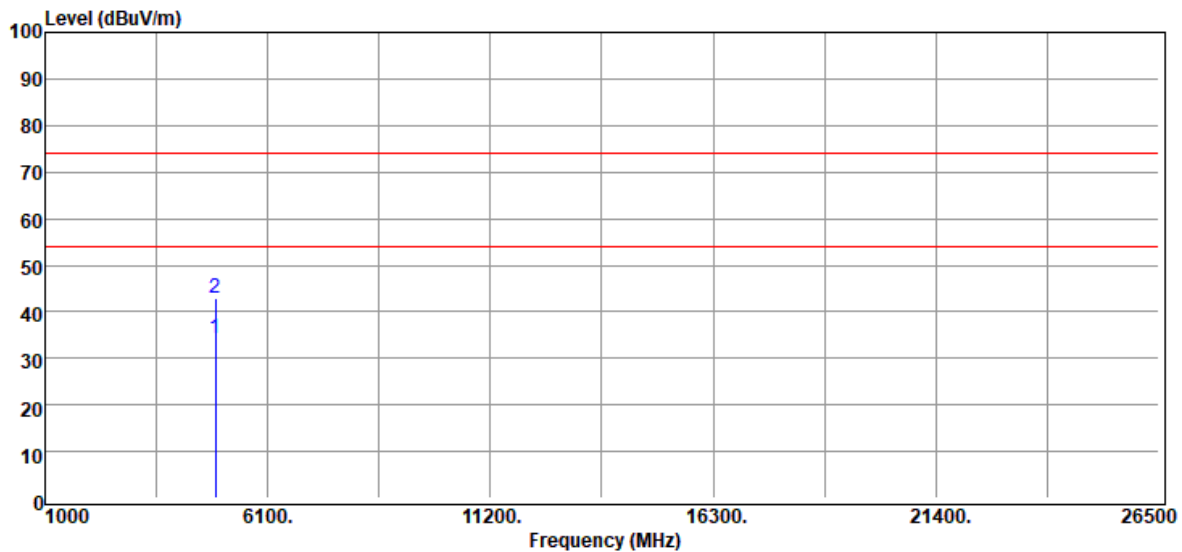
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	20.07	14.24	34.31	54.00	-19.69
4904.00	Peak	28.50	14.24	42.74	74.00	-31.26

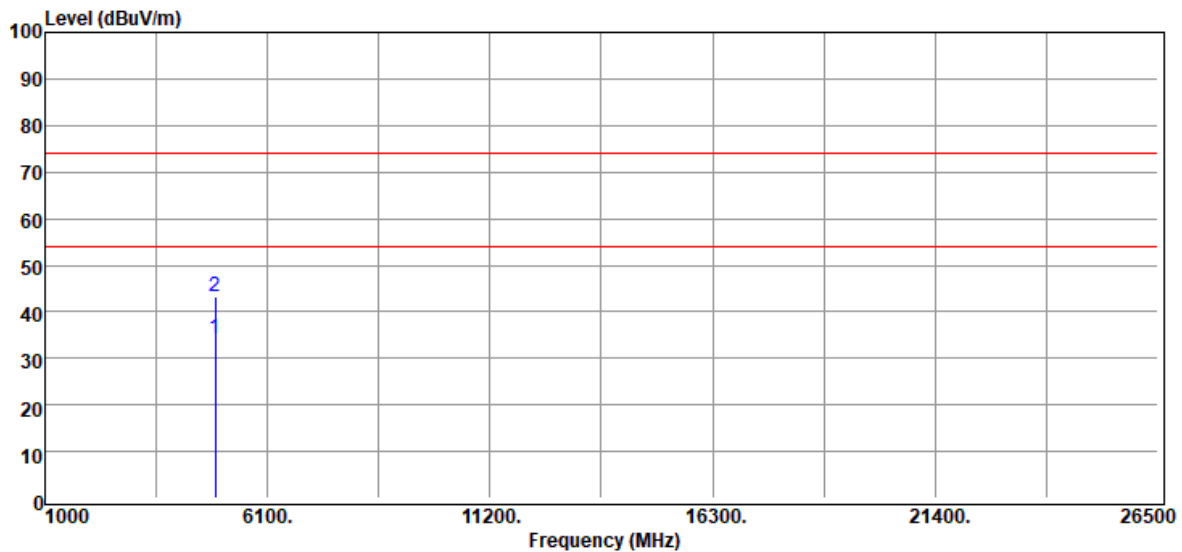
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	20.05	14.24	34.29	54.00	-19.71
4904.00	Peak	29.13	14.24	43.37	74.00	-30.63

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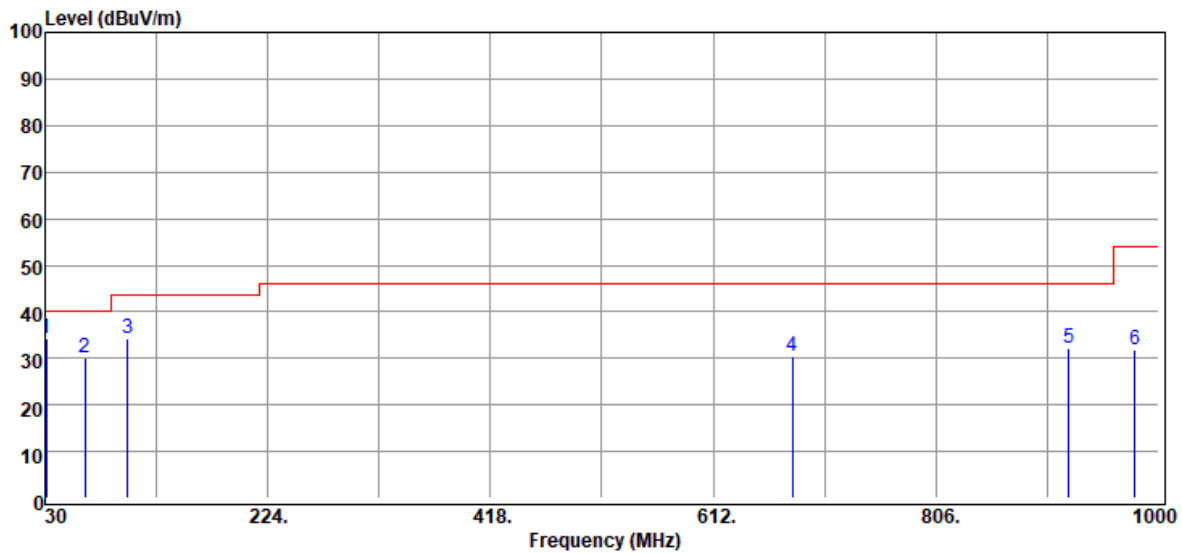
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6.5.3 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :RX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.7/55
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.97	Peak	38.21	-3.89	34.32	40.00	-5.68
64.92	Peak	49.43	-19.47	29.96	40.00	-10.04
101.78	Peak	49.43	-15.21	34.22	43.50	-9.28
680.87	Peak	32.43	-1.96	30.47	46.00	-15.53
921.43	Peak	30.97	1.27	32.24	46.00	-13.76
979.63	Peak	29.90	1.86	31.76	54.00	-22.24

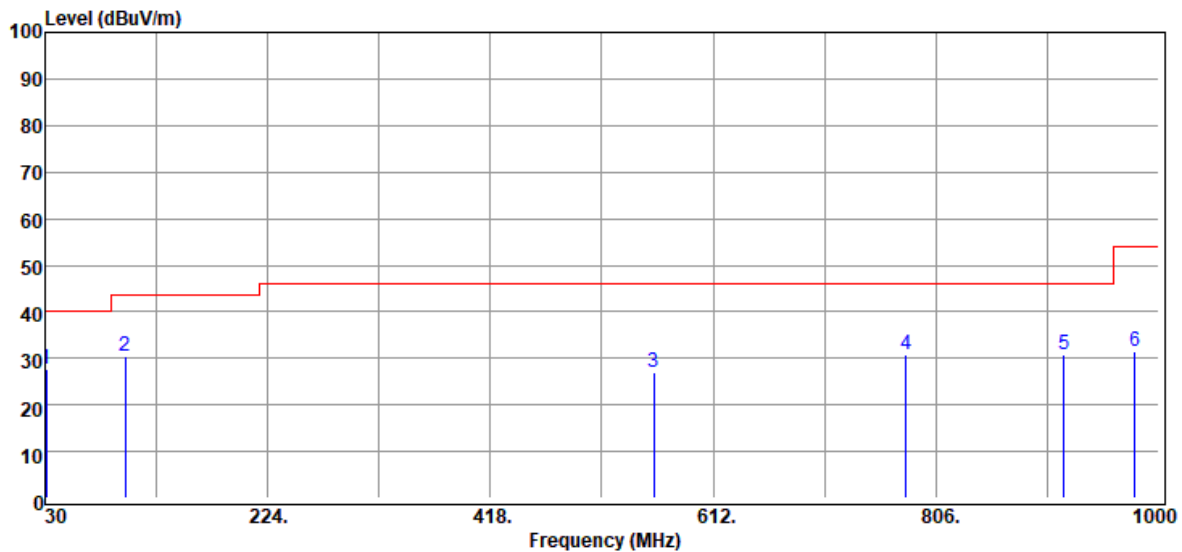
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Report Number :E2/2020/50105
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :RX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.7/55
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.97	Peak	31.50	-3.89	27.61	40.00	-12.39
99.84	Peak	46.24	-15.66	30.58	43.50	-12.92
560.59	Peak	30.38	-3.45	26.93	46.00	-19.07
779.81	Peak	30.60	0.10	30.70	46.00	-15.30
917.55	Peak	29.47	1.20	30.67	46.00	-15.33
979.63	Peak	29.48	1.86	31.34	54.00	-22.66

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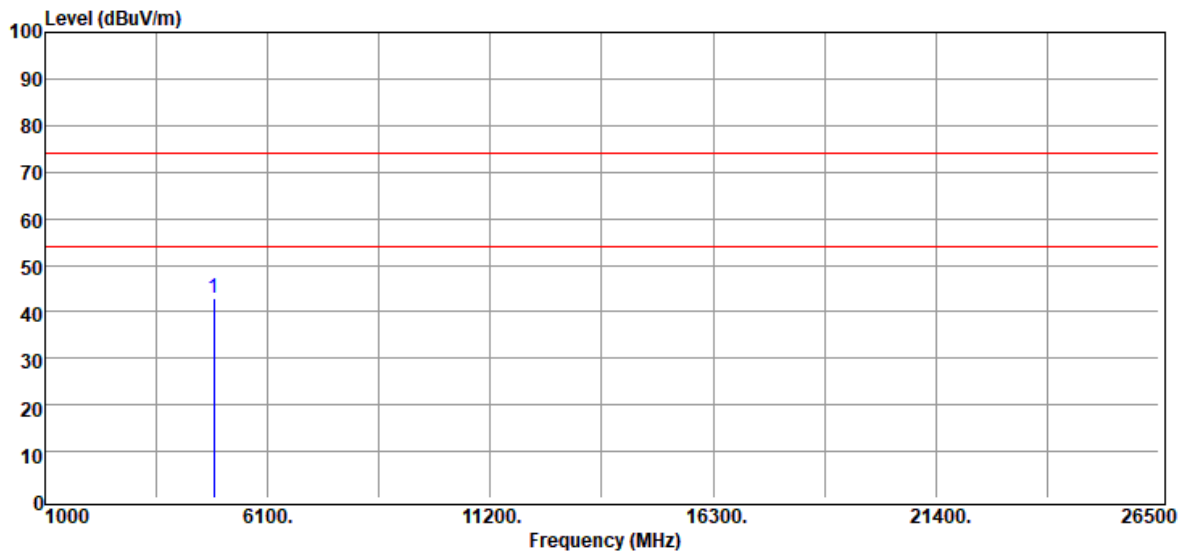
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6.5.4 接收機場強輻射之量測結果(1GHz 以上) (最差模式)

Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :RX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Peak	28.86	14.19	43.05	74.00	-30.95

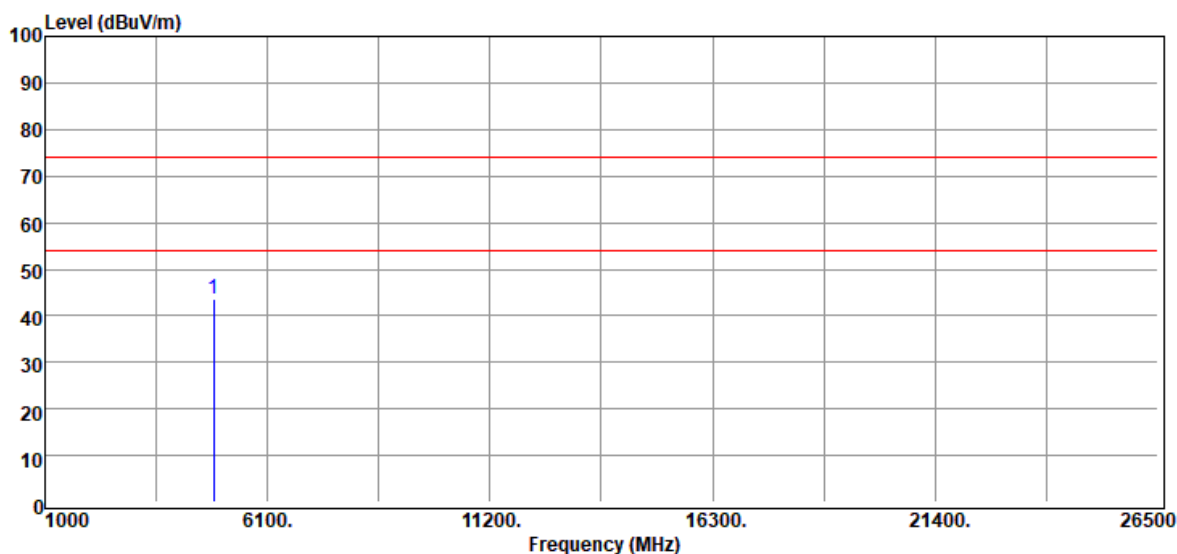
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :RX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-05
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Peak	29.35	14.19	43.54	74.00	-30.46

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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，詳細規格請參考附件天線規格書。

天線型式	Supplier	Part No.	發射頻帶(MHz)	天線增益(dBi)
PIFA	Kuang Ho Technology CO., LTD	K1606-00028F1BS1	2412-2462	0.2 (Chin 0)
PIFA	Kuang Ho Technology CO., LTD	K1606-00029E1BS1		2.7 (Chin 1)

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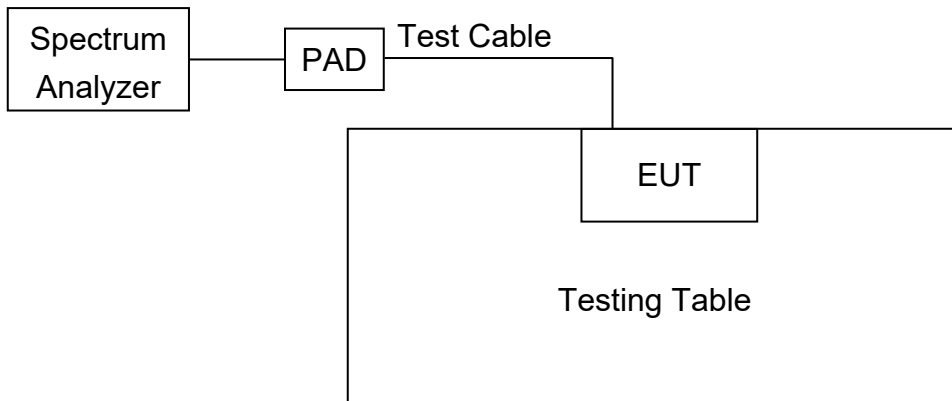
8 發射頻寬之要求

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

802.11b Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	8098	> 500	PASS
2437	8120	> 500	PASS
2462	8113	> 500	PASS

802.11b Ch1

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	8107	> 500	PASS
2437	8121	> 500	PASS
2462	8120	> 500	PASS

802.11g Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	15150	> 500	PASS
2437	15550	> 500	PASS
2462	15720	> 500	PASS

802.11g Ch1

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	15150	> 500	PASS
2437	16000	> 500	PASS
2462	15740	> 500	PASS

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802.11n_HT20M Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	15150	> 500	PASS
2437	15750	> 500	PASS
2462	15730	> 500	PASS

802.11n_HT20M Ch1

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	15970	> 500	PASS
2437	16560	> 500	PASS
2462	16060	> 500	PASS

802.11n_HT40M Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2422	35150	> 500	PASS
2437	35320	> 500	PASS
2452	35180	> 500	PASS

802.11n_HT40M Ch1

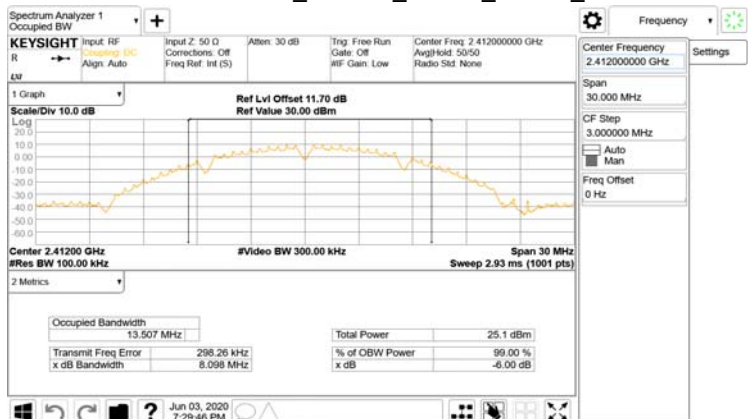
Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2422	35140	> 500	PASS
2437	35790	> 500	PASS
2452	35750	> 500	PASS

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發射頻寬 6dB 之要求_802.11b_20MHz_Chain0_2412MHz



發射頻寬 6dB 之要求_802.11b_20MHz_Chain1_2412MHz



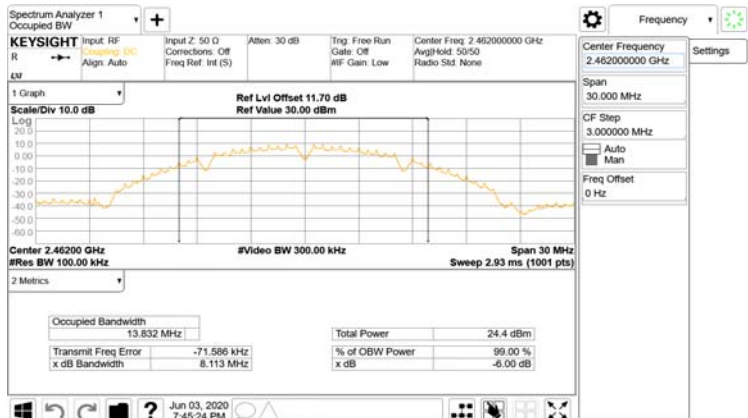
發射頻寬 6dB 之要求_802.11b_20MHz_Chain0_2437MHz



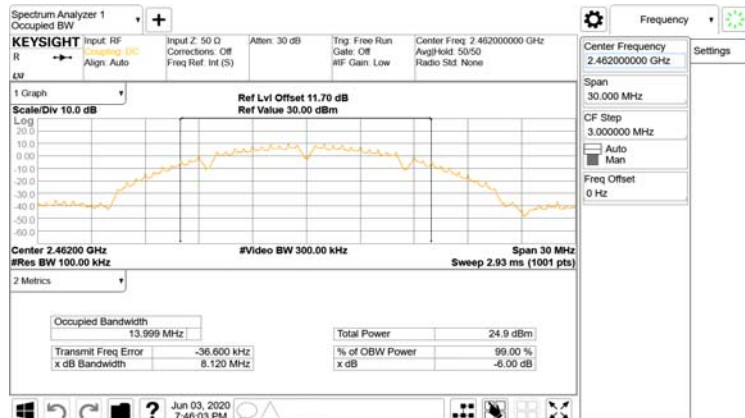
發射頻寬 6dB 之要求_802.11b_20MHz_Chain1_2437MHz



發射頻寬 6dB 之要求_802.11b_20MHz_Chain0_2462MHz



發射頻寬 6dB 之要求_802.11b_20MHz_Chain1_2462MHz



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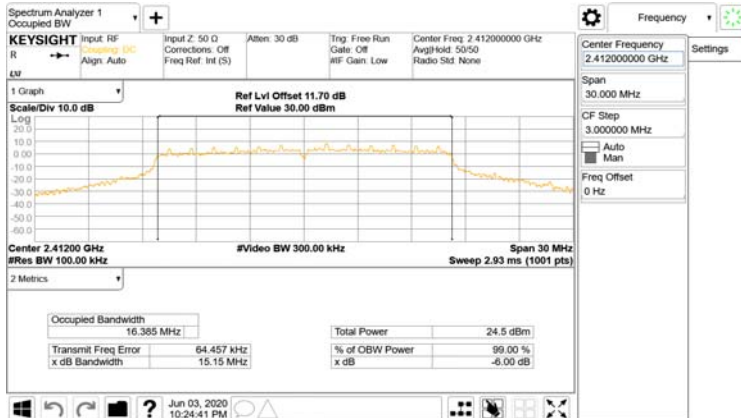
t (886-2) 2299-3279

f (886-2) 2298-0488

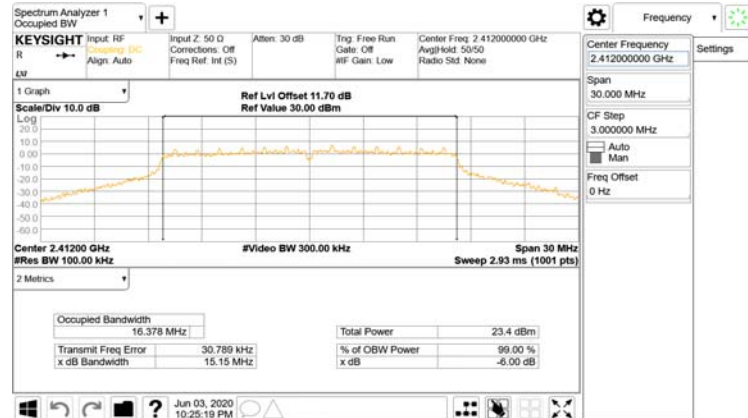
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發射頻寬 6dB 之要求_802.11g_20MHz_Chain0_2412MHz



發射頻寬 6dB 之要求_802.11g_20MHz_Chain1_2412MHz



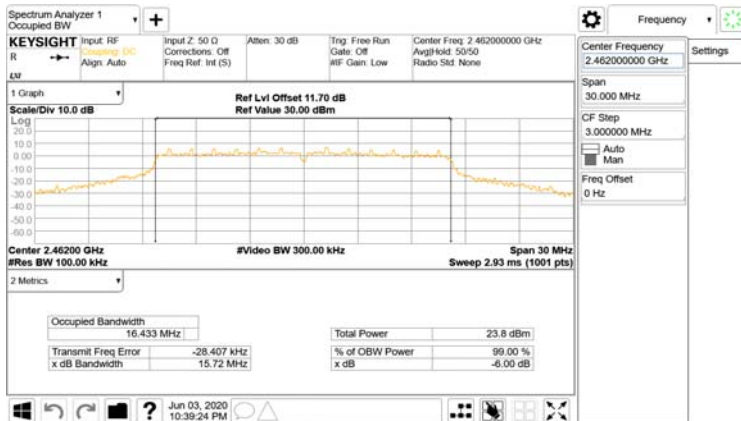
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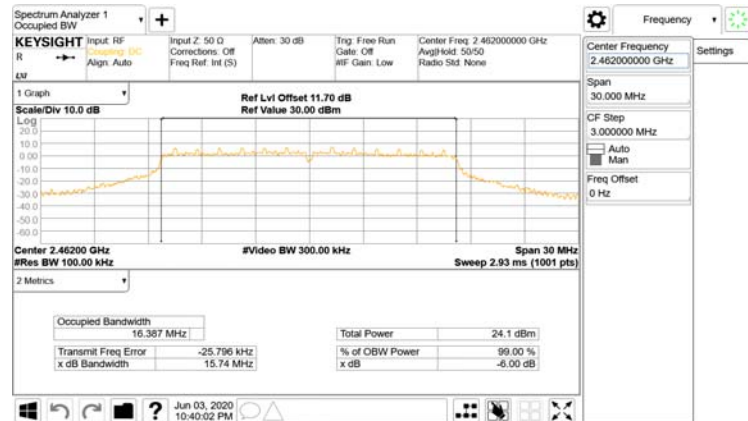
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發射頻寬 6dB 之要求_802.11g_20MHz_Chain0_2462MHz



發射頻寬 6dB 之要求_802.11g_20MHz_Chain1_2462MHz

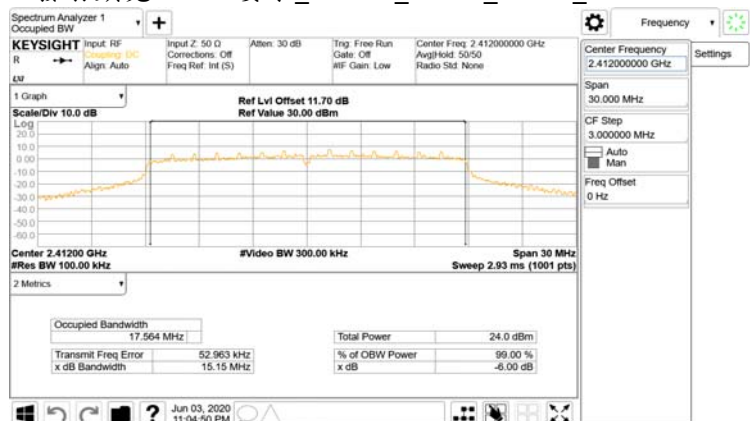


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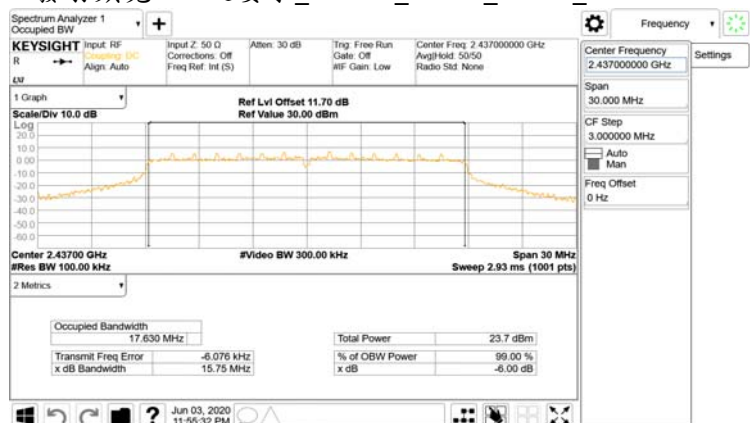
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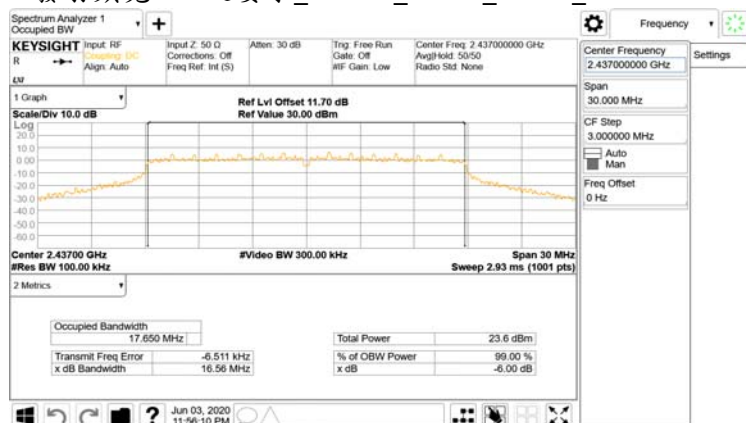
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發射頻寬 6dB 之要求_802.11n_20MHz_Chain0_2437MHz



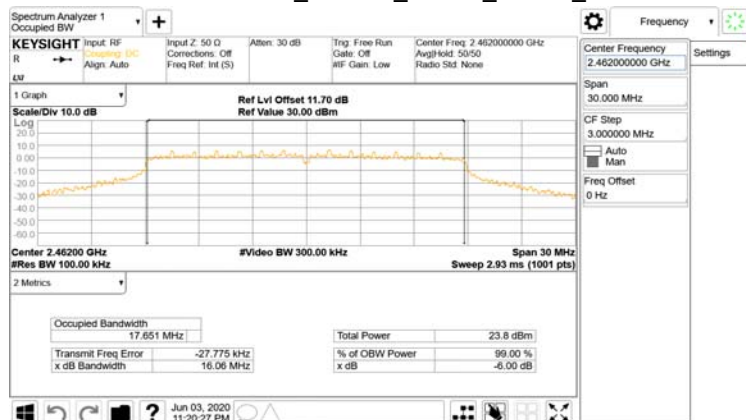
發射頻寬 6dB 之要求_802.11n_20MHz_Chain1_2437MHz



發射頻寬 6dB 之要求_802.11n_20MHz_Chain0_2462MHz



發射頻寬 6dB 之要求_802.11n_20MHz_Chain1_2462MHz

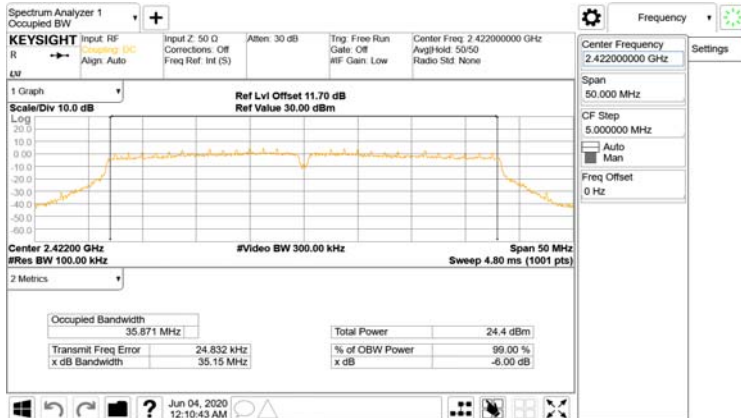


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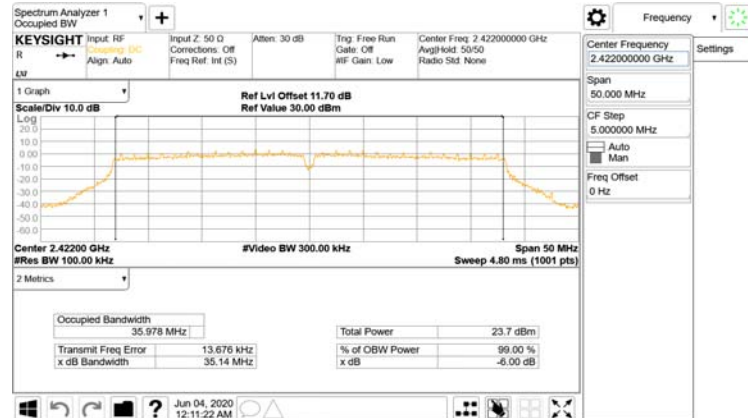
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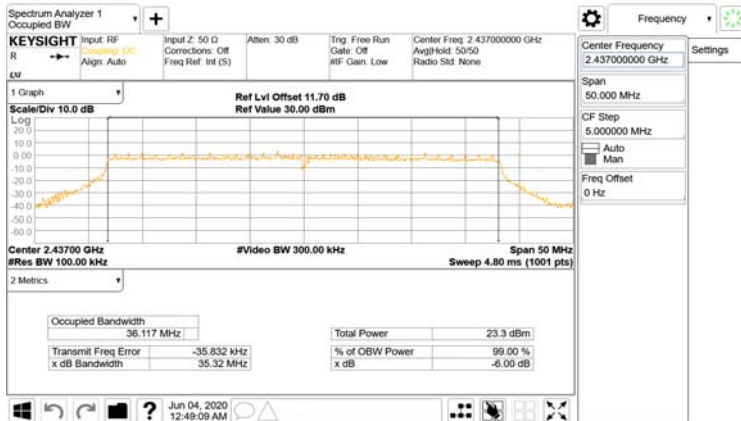
發射頻寬 6dB 之要求_802.11n_40MHz_Chain0_2422MHz



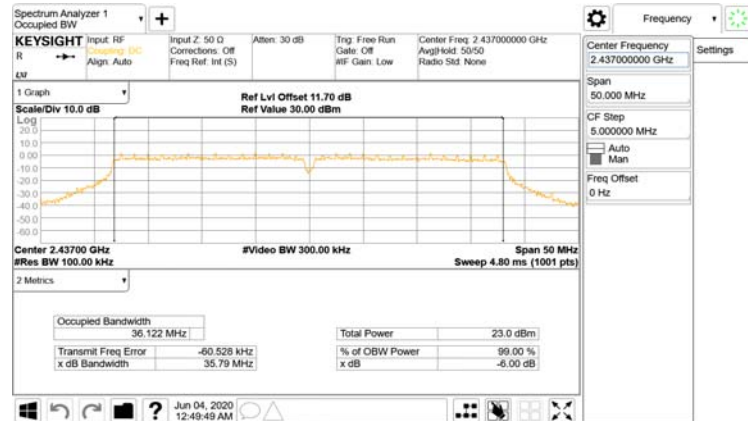
發射頻寬 6dB 之要求_802.11n_40MHz_Chain1_2422MHz



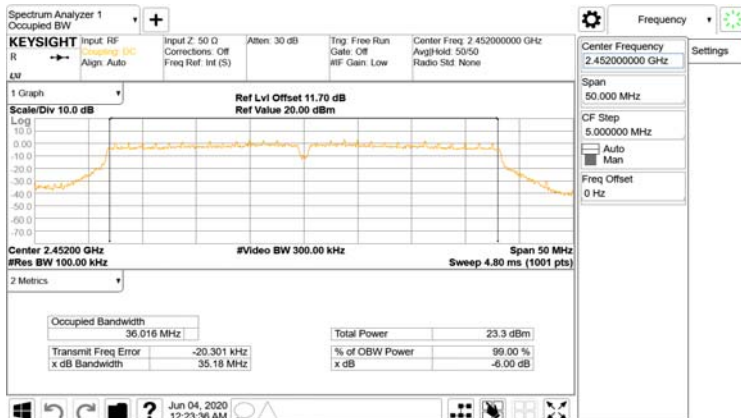
發射頻寬 6dB 之要求_802.11n_40MHz_Chain0_2437MHz



發射頻寬 6dB 之要求_802.11n_40MHz_Chain1_2437MHz



發射頻寬 6dB 之要求_802.11n_40MHz_Chain0_2452MHz



發射頻寬 6dB 之要求_802.11n_40MHz_Chain1_2452MHz



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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：

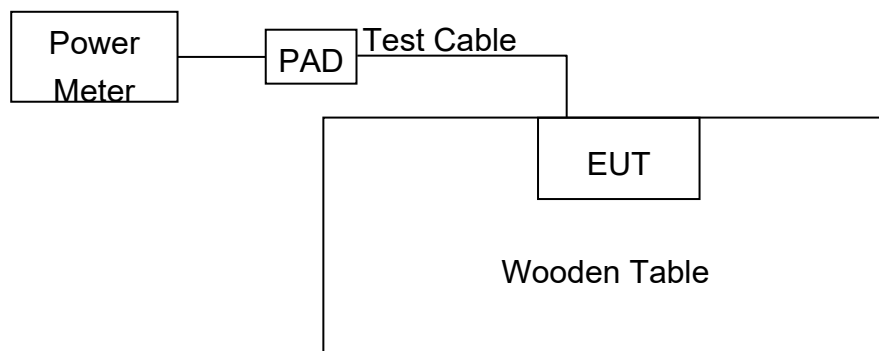
依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

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



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9.3 輸出功率之量測結果

802.11b_2Tx							
CH	Freq. (MHz)	Data Rate	Peak Output		Total Peak Output Power (dBm)	Limit	RESULT
			CH 0	CH 1			
1	2412	1	19.72	18.54	22.18	1 Watt = 30.00 dBm	PASS
6	2437	1	20.11	18.56	22.41	1 Watt = 30.00 dBm	PASS
10	2457	1	19.3	19.18	22.25	1 Watt = 30.00 dBm	PASS

802.11b_2Tx							
CH	Freq. (MHz)	Data Rate	Avg. Output		Total Avg Output Power (dBm)	Limit	RESULT
			CH 0	CH 1			
1	2412	1	16.73	16.68	19.76	1 Watt = 30.00 dBm	PASS
6	2437	1	16.89	16.75	19.88	1 Watt = 30.00 dBm	PASS
11	2462	1	16.82	16.73	19.83	1 Watt = 30.00 dBm	PASS

802.11g_2Tx							
CH	Freq. (MHz)	Data Rate	Peak Output		Total Peak Output Power (dBm)	Limit	RESULT
			CH 0	CH 1			
1	2412	6	21.85	20.42	24.20	1 Watt = 30.00 dBm	PASS
6	2437	6	21.09	20.53	23.83	1 Watt = 30.00 dBm	PASS
11	2462	6	19.73	19.4	22.58	1 Watt = 30.00 dBm	PASS

802.11g_2Tx							
CH	Freq. (MHz)	Data Rate	Avg. Output		Total Avg Output Power	Limit	RESULT
			CH 0	CH 1			
1	2412	6	15.81	15.48	18.77	1 Watt = 30.00 dBm	PASS
6	2437	6	15.89	15.65	18.90	1 Watt = 30.00 dBm	PASS
11	2462	6	14.84	14.13	17.62	1 Watt = 30.00 dBm	PASS

802.11n_HT20M_MIMO							
CH	Freq. (MHz)	Data Rate	Peak Output		Total Peak Output Power	Limit	RESULT
			CH 0	CH 1			
1	2412	MCS8	21.24	20.07	23.70	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	20.52	19.77	23.17	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	20.49	20.63	23.57	1 Watt = 30.00 dBm	PASS

802.11n_HT20M_MIMO							
CH	Freq. (MHz)	Data Rate	Avg. Output		Total Avg Output Power	Limit	RESULT
			CH 0	CH 1			
1	2412	MCS8	15.42	14.71	18.32	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	15.15	14.89	18.26	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	15.29	15.17	18.47	1 Watt = 30.00 dBm	PASS

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802.11n_HT40M_MIMO									
CH	Freq. (MHz)	Data Rate	Peak Output		Total Peak Output Power (dBm)	Limit			RESULT
			CH 0	CH 1					
3	2422	MCS8	14.64	13.52	23.98	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	15.28	15.11	23.77	1 Watt =	30.00	dBm	PASS
9	2452	MCS8	14.91	14.51	24.62	1 Watt =	30.00	dBm	PASS
802.11n_HT40M_MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output		Total Avg Output Power (dBm)	Limit			RESULT
			CH 0	CH 1					
3	2422	MCS8	14.64	13.52	17.35	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	15.28	15.11	18.43	1 Watt =	30.00	dBm	PASS
9	2452	MCS8	14.91	14.51	17.95	1 Watt =	30.00	dBm	PASS

Note:

offset 11.70 dB for SISO mode

offset 14.71 dB for MIMO mode

*Note: Measured by Power Meter.

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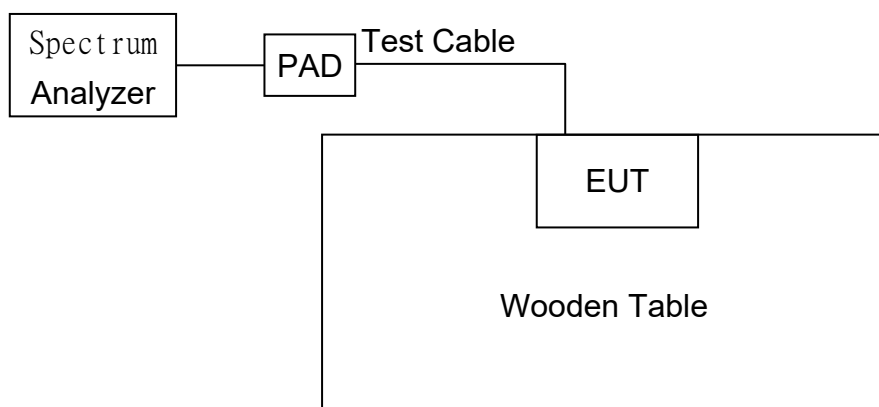
10 開放頻帶邊緣 100kHz 頻寬內之限制

10.1 適用標準

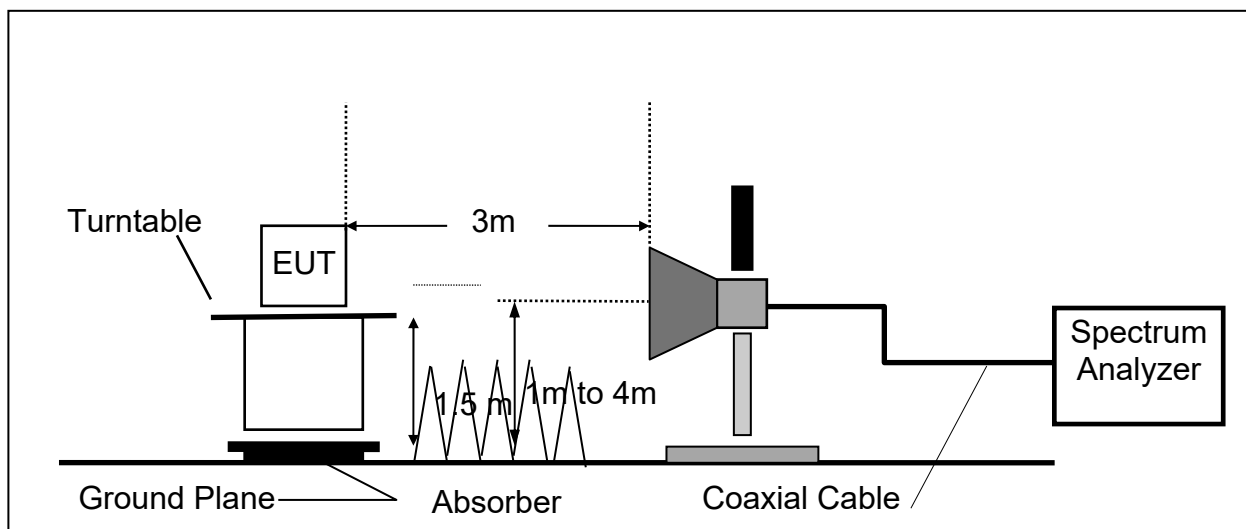
依據 NCC 低功率射頻電機技術規範 3.10.1.5 之規定，使用頻帶範圍外之任意 100kHz 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100kHz 內的射頻功率，須衰減 20 分貝 (dB)，以射頻傳導或輻射方式測量。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

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。

NOTE:

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

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

頻帶外發射傳導限制值

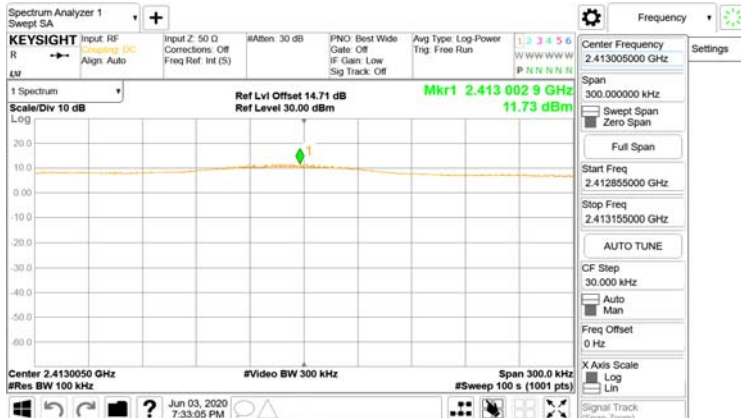
Bandedge Limit 802.11b MODE			Bandedge Limit 802.11g MODE		
Frequency (MHz)	RF Power Density	Bandedge Limit (dBm)	Frequency (MHz)	RF Power Density	Bandedge Limit (dBm)
2412	11.73	-8.27	2412	6.83	-13.17
2437	11.95	-8.05	2437	7.33	-12.67
2462	12.74	-7.26	2462	7.74	-12.26
Bandedge Limit 802.11n20 MODE			Bandedge Limit 802.11n40 MODE		
Frequency (MHz)	RF Power Density	Bandedge Limit (dBm)	Frequency (MHz)	RF Power Density	Bandedge Limit (dBm)
2412	6.39	-13.61	2422	6.98	-13.02
2437	6.80	-13.20	2437	5.47	-14.53
2462	9.50	-10.50	2452	4.05	-15.95

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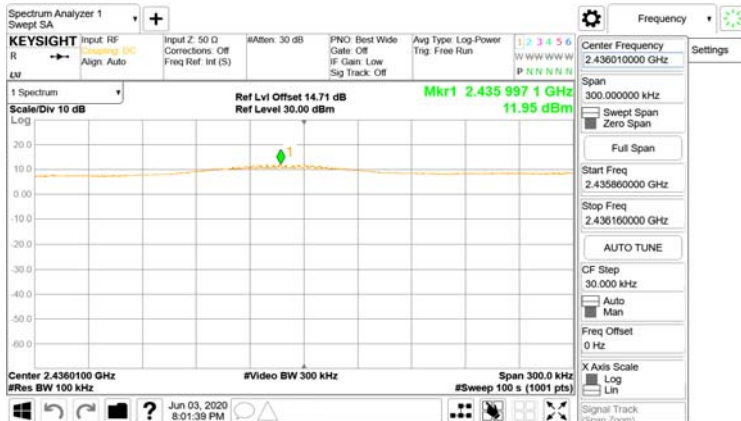
參考限制值_802.11b_20MHz_Chain0_2412MHz



參考限制值_802.11g_20MHz_Chain0_2412MHz



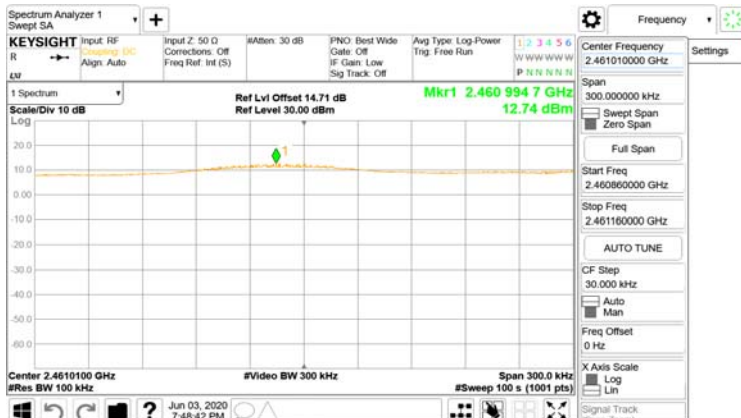
參考限制值_802.11b_20MHz_Chain0_2437MHz



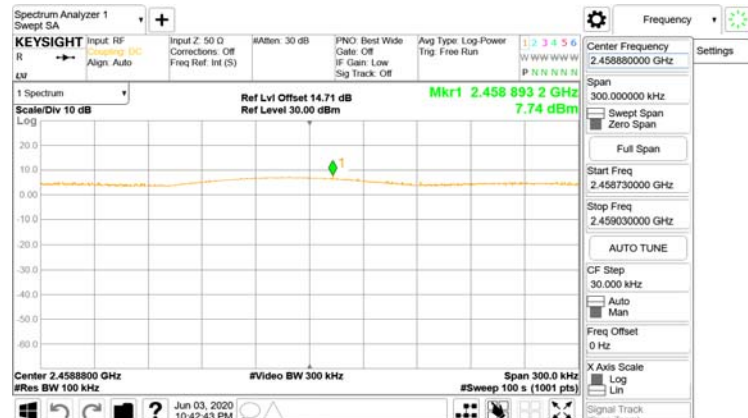
參考限制值_802.11g_20MHz_Chain0_2437MHz



參考限制值_802.11b_20MHz_Chain0_2462MHz



參考限制值_802.11g_20MHz_Chain0_2462MHz



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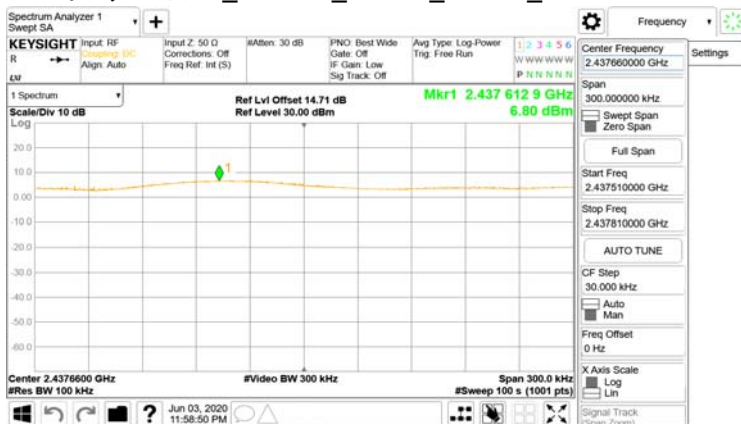
參考限制值_802.11n_20MHz_Chain0_2412MHz



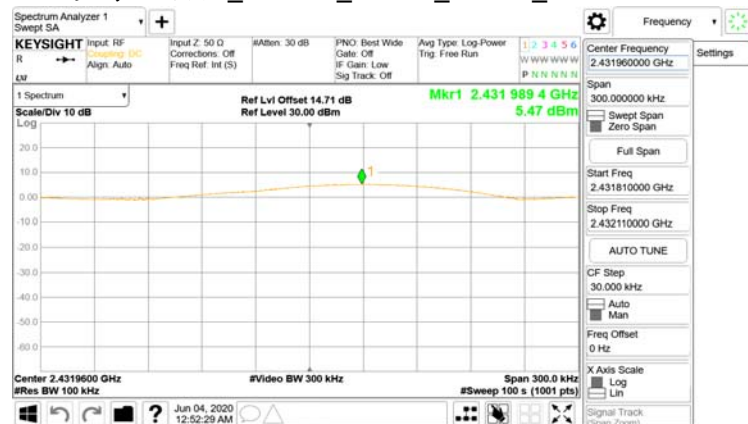
參考限制值_802.11n_40MHz_Chain0_2422MHz



參考限制值_802.11n_20MHz_Chain0_2437MHz



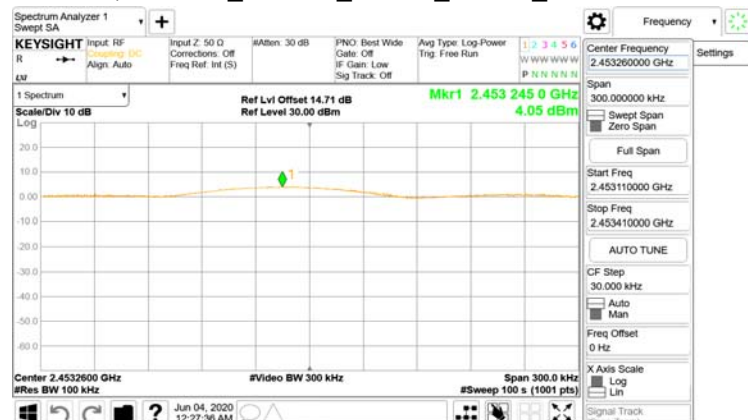
參考限制值_802.11n_40MHz_Chain0_2437MHz



參考限制值_802.11n_20MHz_Chain0_2462MHz



參考限制值_802.11n_40MHz_Chain0_2452MHz



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開放頻帶邊緣 100KHz 頻寬內之限制_802.11b_20MHz_Chain0_2412MHz



開放頻帶邊緣 100KHz 頻寬內之限制_802.11g_20MHz_Chain0_2412MHz



開放頻帶邊緣 100KHz 頻寬內之限制_802.11b_20MHz_Chain0_2462MHz



開放頻帶邊緣 100KHz 頻寬內之限制_802.11g_20MHz_Chain0_2462MHz

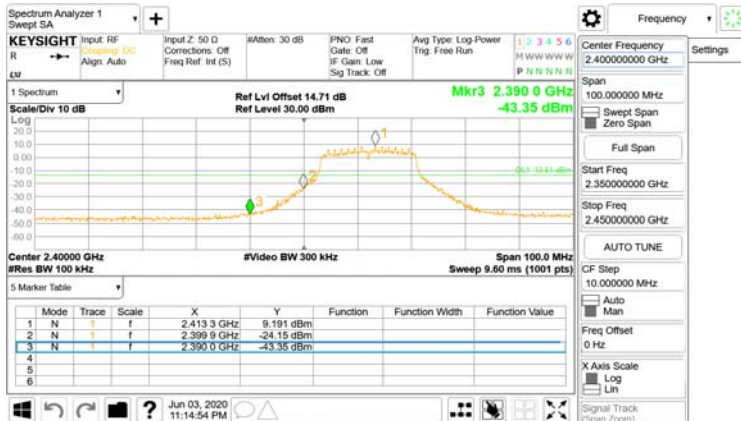


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開放頻帶邊緣 100KHz 頻寬內之限制_802.11n_20MHz_Chain0_2412MHz



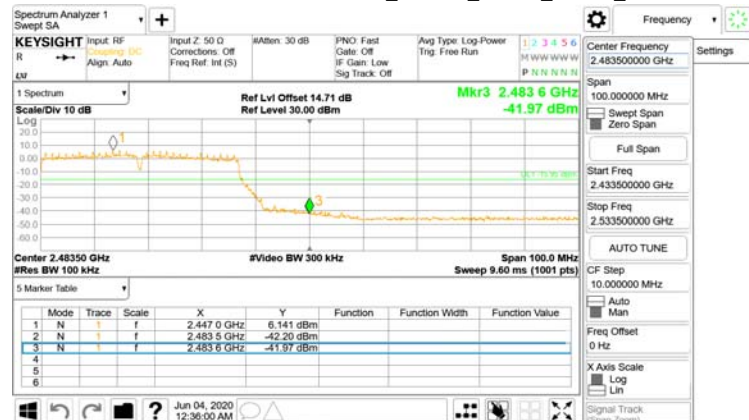
開放頻帶邊緣 100KHz 頻寬內之限制_802.11n_40MHz_Chain0_2422MHz



開放頻帶邊緣 100KHz 頻寬內之限制_802.11n_20MHz_Chain0_2462MHz



開放頻帶邊緣 100KHz 頻寬內之限制_802.11n_40MHz_Chain0_2452MHz



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.

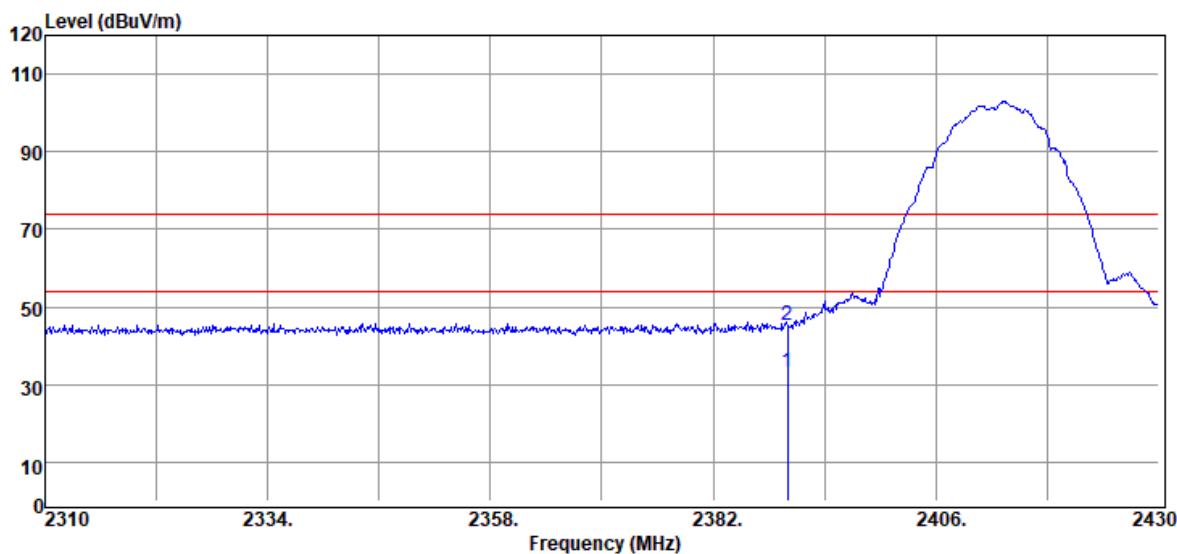
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10.3.1 禁用頻帶輻射量測值

Report Number :E2/2020/50105
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	29.61	3.76	33.37	54.00	-20.63
2390.00	Peak	41.38	3.76	45.14	74.00	-28.86

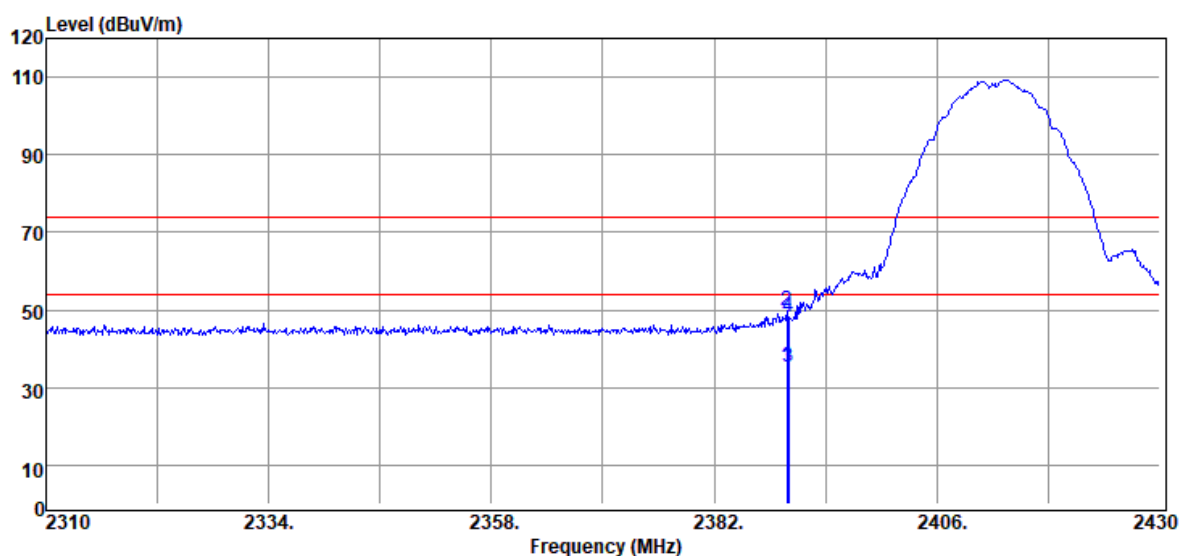
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Report Number :E2/2020/50105
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.80	Average	31.58	3.76	35.34	54.00	-18.66
2389.80	Peak	46.07	3.76	49.83	74.00	-24.17
2390.00	Average	31.65	3.76	35.41	54.00	-18.59
2390.00	Peak	44.56	3.76	48.32	74.00	-25.68

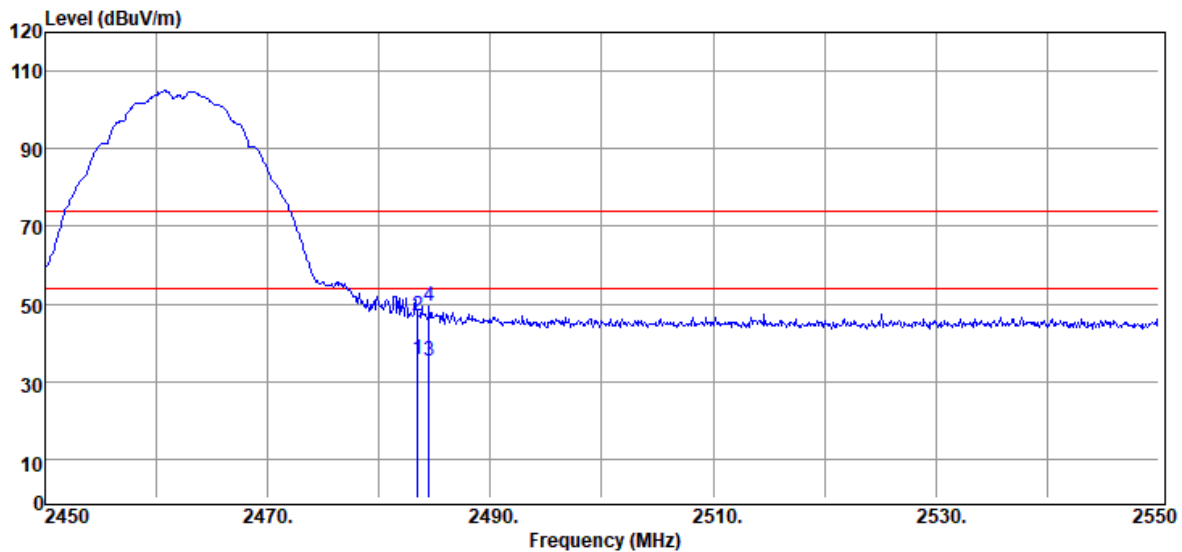
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Report Number :E2/2020/50105
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 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	31.25	4.42	35.67	54.00	-18.33
2483.50	Peak	42.31	4.42	46.73	74.00	-27.27
2484.50	Average	30.81	4.45	35.26	54.00	-18.74
2484.50	Peak	45.09	4.45	49.54	74.00	-24.46

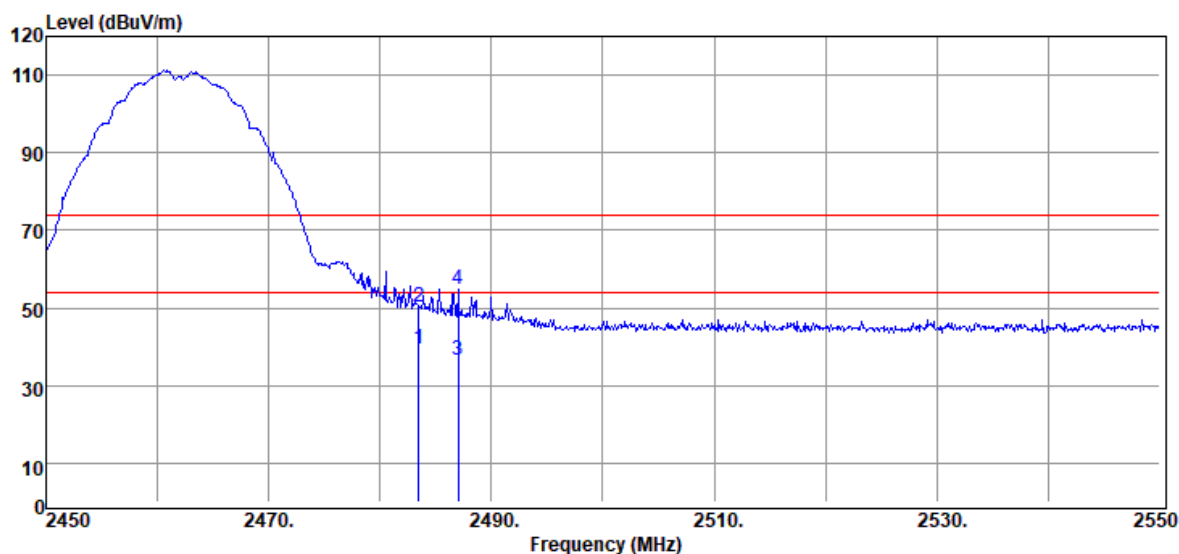
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Report Number :E2/2020/50105
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	34.92	4.42	39.34	54.00	-14.66
2483.50	Peak	45.95	4.42	50.37	74.00	-23.63
2487.00	Average	32.17	4.46	36.63	54.00	-17.37
2487.00	Peak	50.33	4.46	54.79	74.00	-19.21

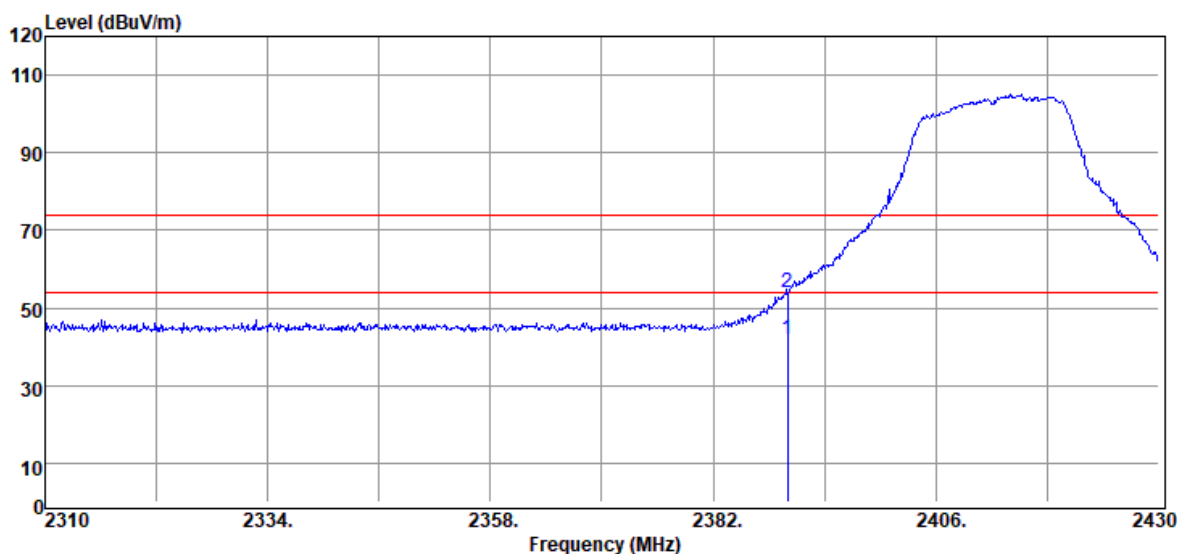
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	38.27	3.76	42.03	54.00	-11.97
2390.00	Peak	50.33	3.76	54.09	74.00	-19.91

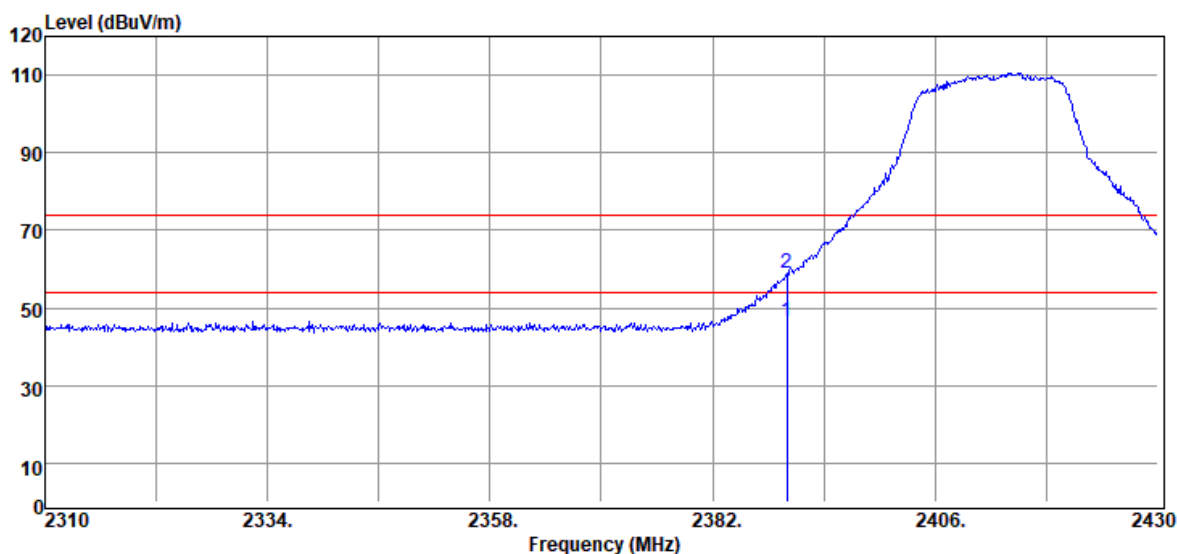
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	42.72	3.76	46.48	54.00	-7.52
2390.00	Peak	55.12	3.76	58.88	74.00	-15.12

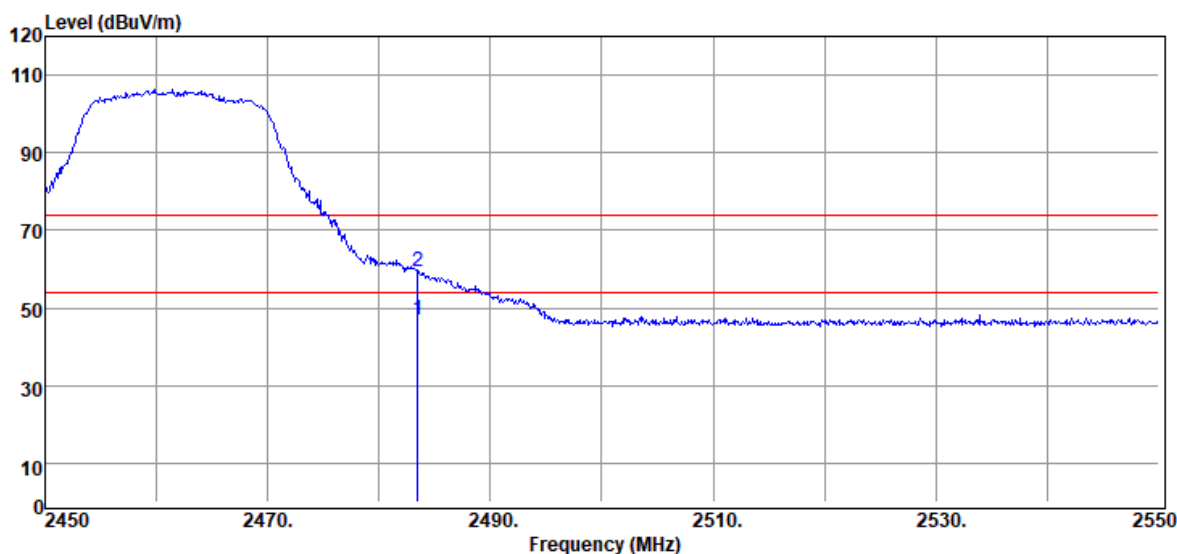
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	42.40	4.42	46.82	54.00	-7.18
2483.50	Peak	54.96	4.42	59.38	74.00	-14.62

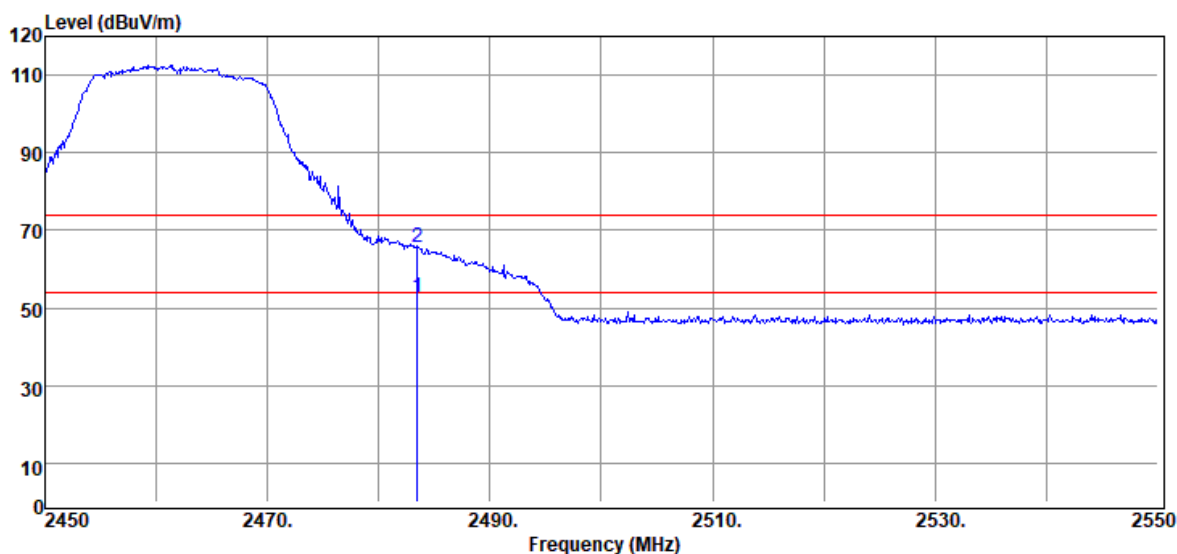
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Report Number :E2/2020/50105
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	48.35	4.42	52.77	54.00	-1.23
2483.50	Peak	61.16	4.42	65.58	74.00	-8.42

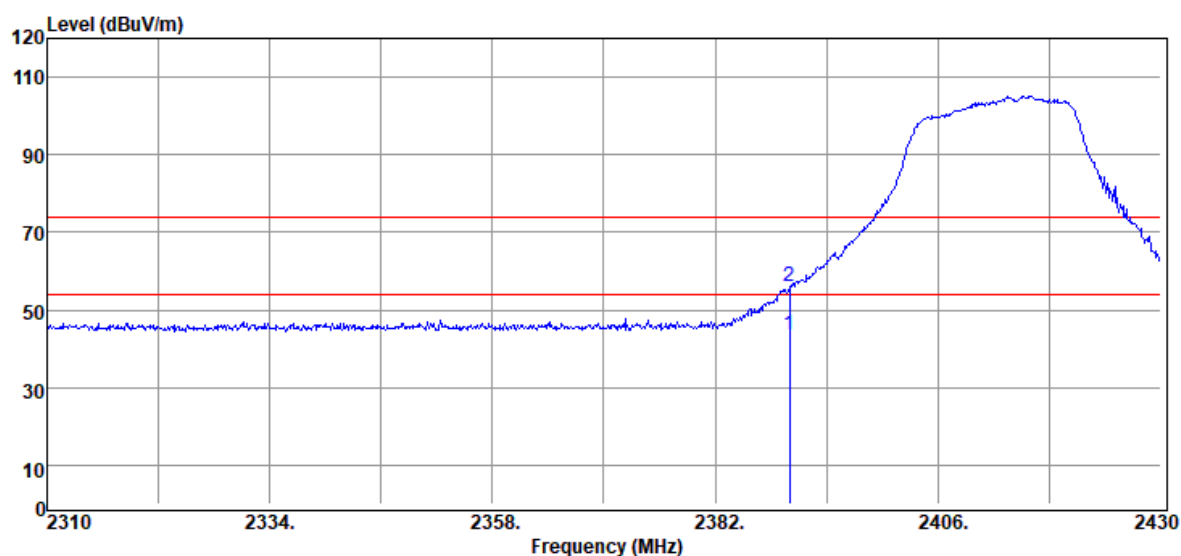
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Report Number :E2/2020/50105
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	39.64	3.76	43.40	54.00	-10.60
2390.00	Peak	52.18	3.76	55.94	74.00	-18.06

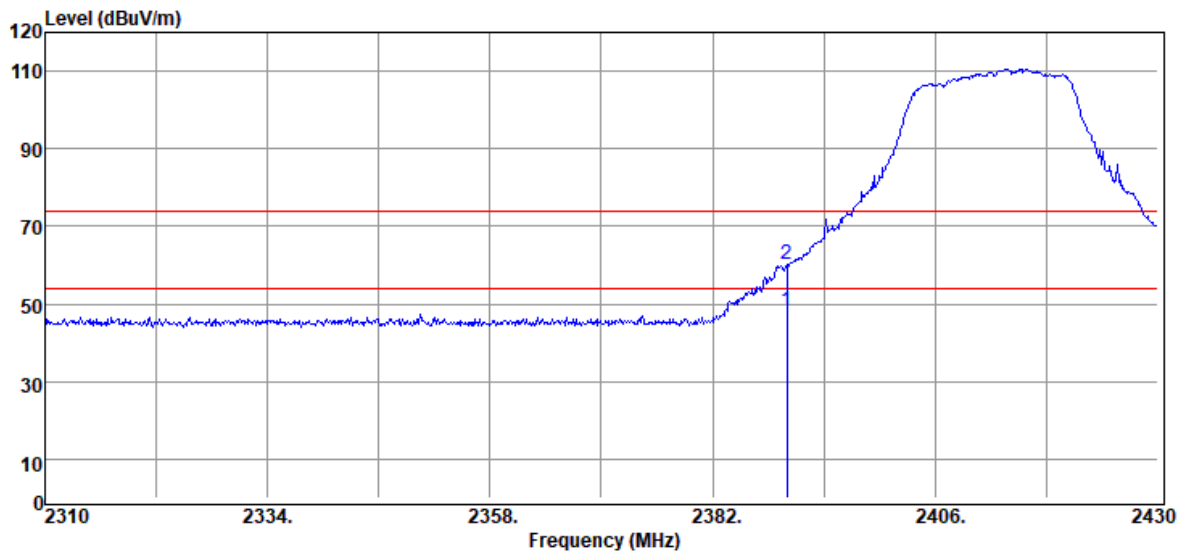
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Report Number :E2/2020/50105
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	44.26	3.76	48.02	54.00	-5.98
2390.00	Peak	56.31	3.76	60.07	74.00	-13.93

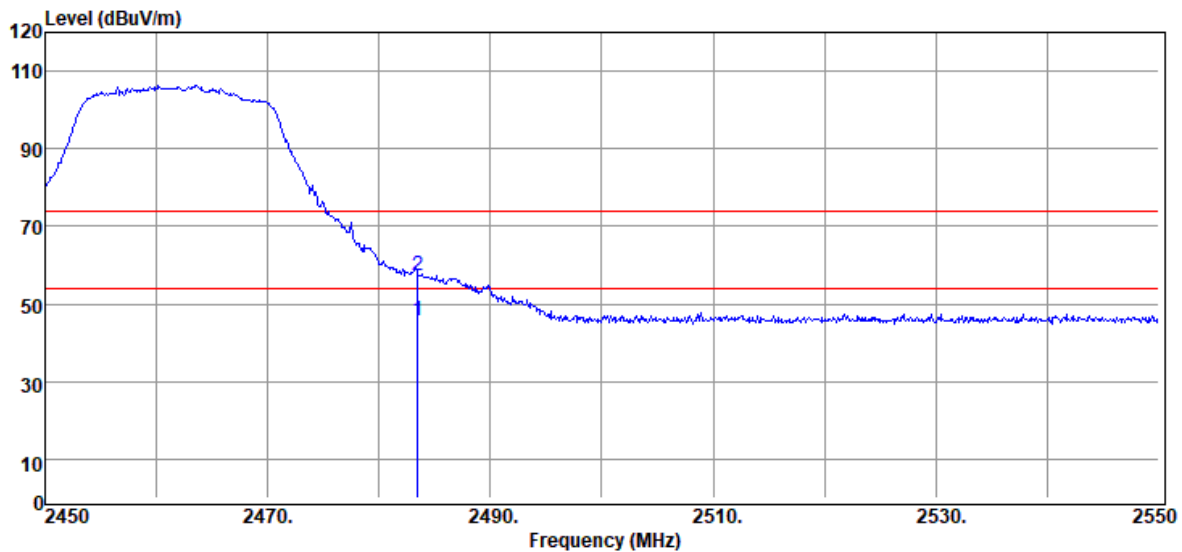
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Report Number :E2/2020/50105
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.5/66
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	41.17	4.42	45.59	54.00	-8.41
2483.50	Peak	52.93	4.42	57.35	74.00	-16.65

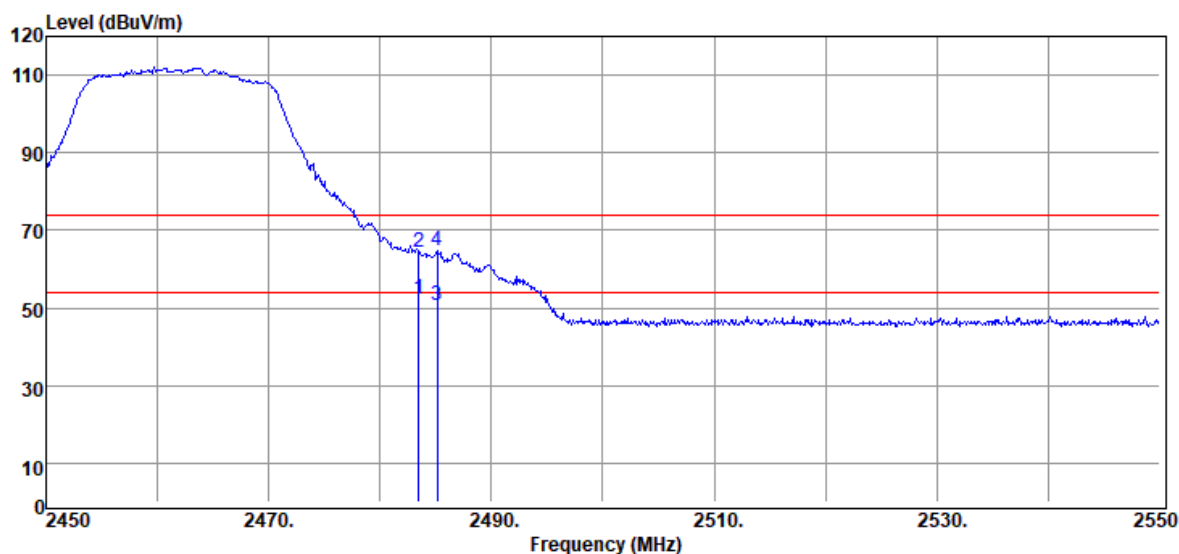
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Report Number :E2/2020/50105
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	47.71	4.42	52.13	54.00	-1.87
2483.50	Peak	59.85	4.42	64.27	74.00	-9.73
2485.10	Average	46.40	4.45	50.85	54.00	-3.15
2485.10	Peak	60.46	4.45	64.91	74.00	-9.09

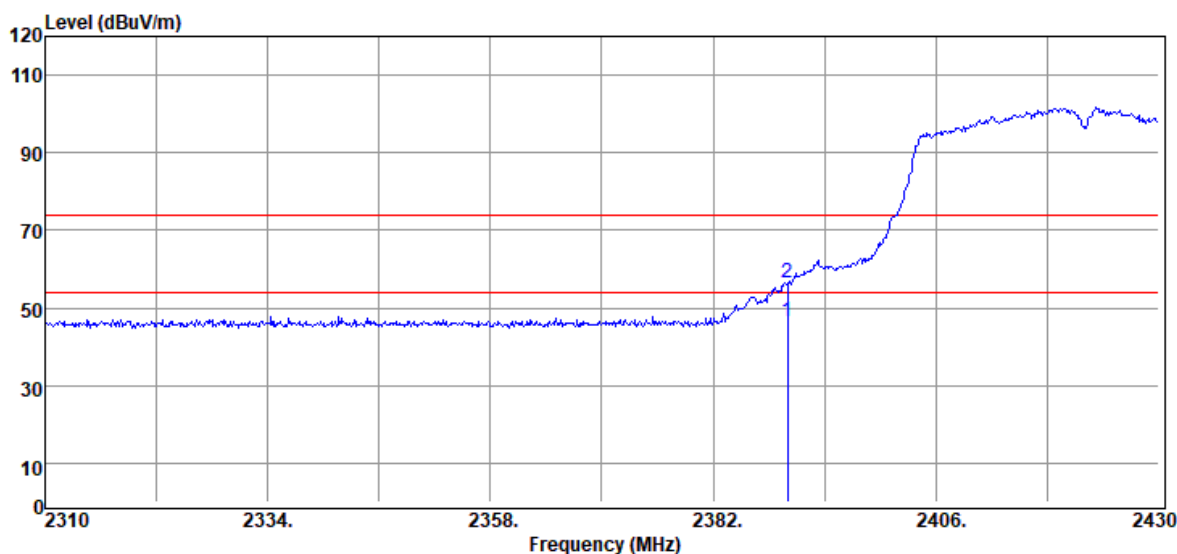
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	42.73	3.76	46.49	54.00	-7.51
2390.00	Peak	52.83	3.76	56.59	74.00	-17.41

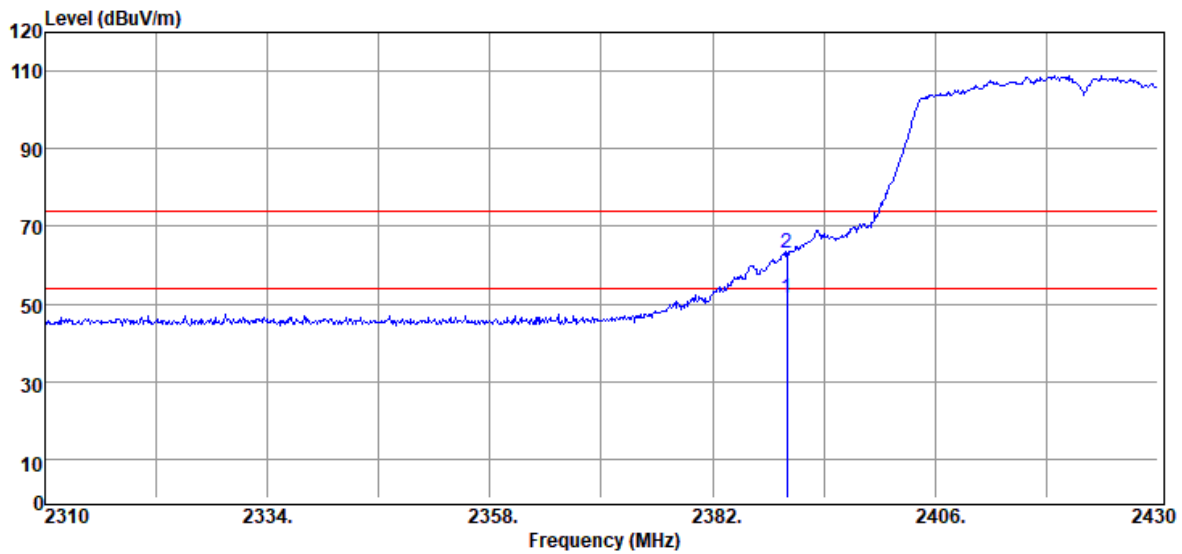
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Report Number :E2/2020/50105
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.5/66
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	47.56	3.76	51.32	54.00	-2.68
2390.00	Peak	59.34	3.76	63.10	74.00	-10.90

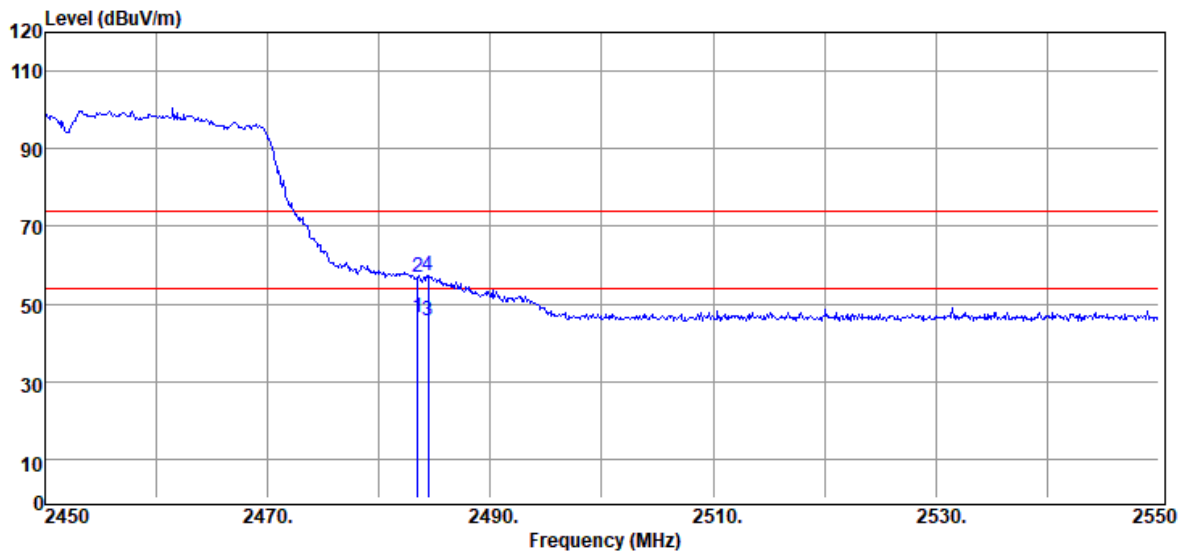
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	42.15	4.42	46.57	54.00	-7.43
2483.50	Peak	52.67	4.42	57.09	74.00	-16.91
2484.40	Average	41.42	4.45	45.87	54.00	-8.13
2484.40	Peak	52.99	4.45	57.44	74.00	-16.56

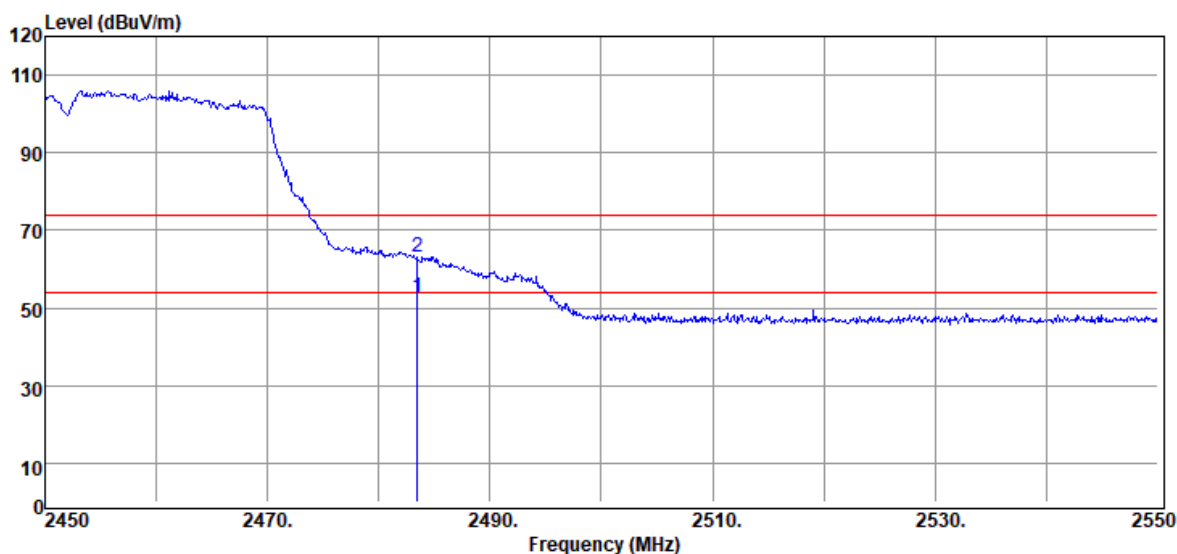
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Report Number :E2/2020/50105
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.5/66
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	48.15	4.42	52.57	54.00	-1.43
2483.50	Peak	58.52	4.42	62.94	74.00	-11.06

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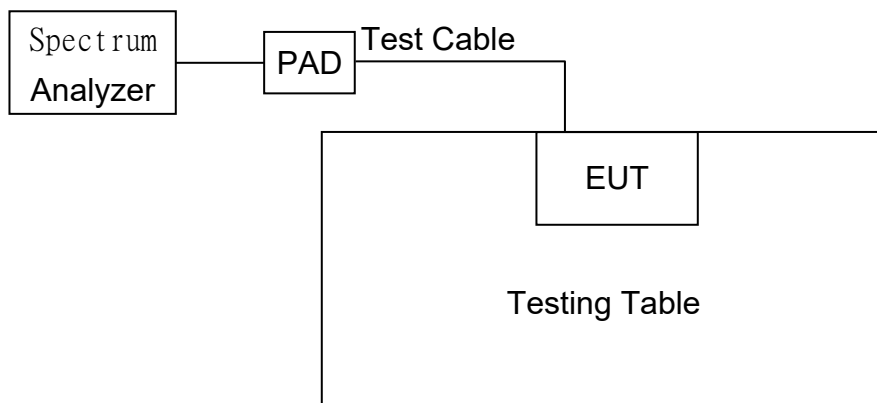
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11 功率密度之量測

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



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11.3 功率密度量測結果

POWER DENSITY 802.11b MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm)	Maximum Limit (dBm)	Result
2412	-5.99	-7.11	-3.50	8.00	PASS
2437	-10.8	-7.12	-5.57	8.00	PASS
2462	-7.62	-6.52	-4.02	8.00	PASS
POWER DENSITY 802.11g MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm)	Maximum Limit (dBm)	Result
2412	-10.29	-11.05	-7.64	8.00	PASS
2437	-10.05	-10.69	-7.35	8.00	PASS
2462	-10.09	-8.63	-6.29	8.00	PASS
POWER DENSITY 802.11n HT20 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm)	Maximum Limit (dBm)	Result
2412	-8.98	-12.3	-7.32	8.00	PASS
2437	-9.69	-10.57	-7.10	8.00	PASS
2462	-9.28	-7.76	-5.44	8.00	PASS
POWER DENSITY 802.11n HT40 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm)	Maximum Limit (dBm)	Result
2422	-12.12	-13.89	-9.91	8.00	PASS
2437	-14.75	-14.17	-11.44	8.00	PASS
2452	-13	-13.16	-10.07	8.00	PASS

Note:

offset 11.70 dB for SISO mode

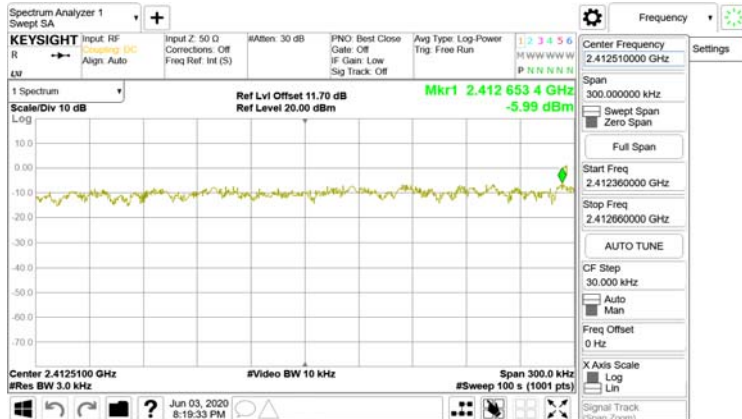
offset 14.71 dB for MIMO mode

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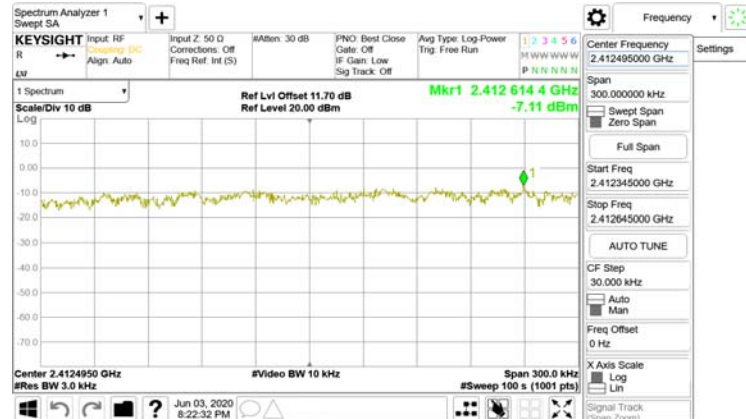
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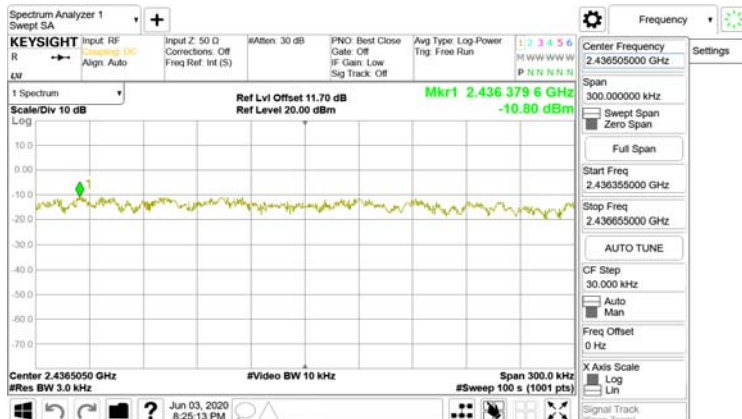
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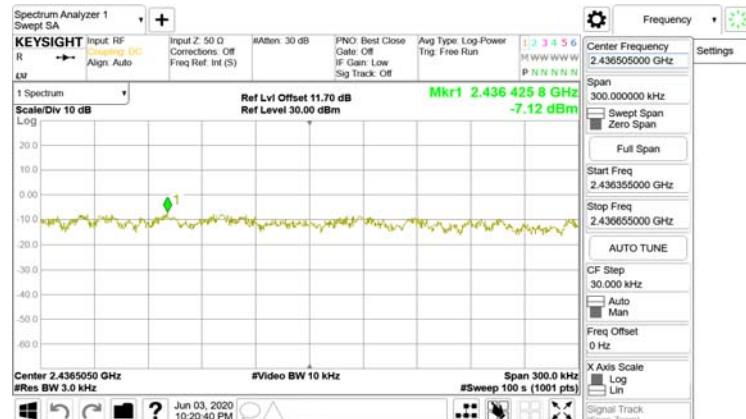
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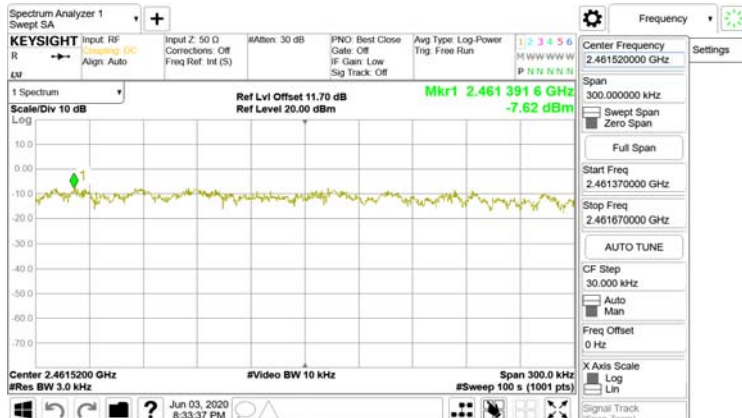
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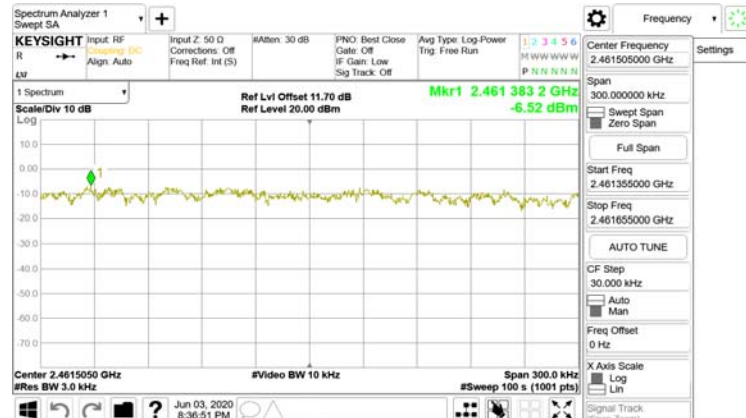
功率密度_802.11b_20MHz_Chain1_2437MHz



功率密度_802.11b_20MHz_Chain0_2462MHz



功率密度_802.11b_20MHz_Chain1_2462MHz

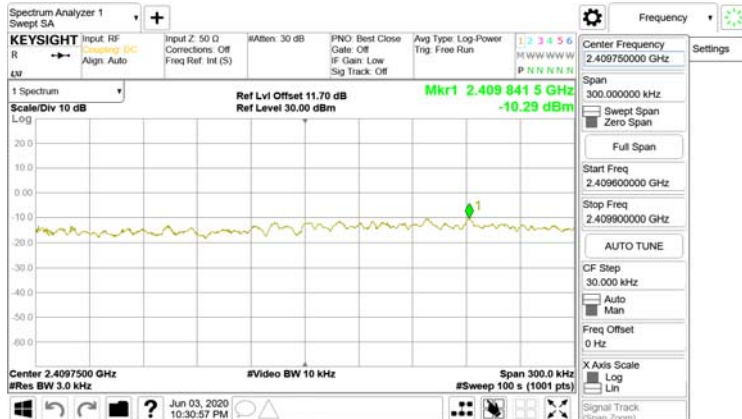


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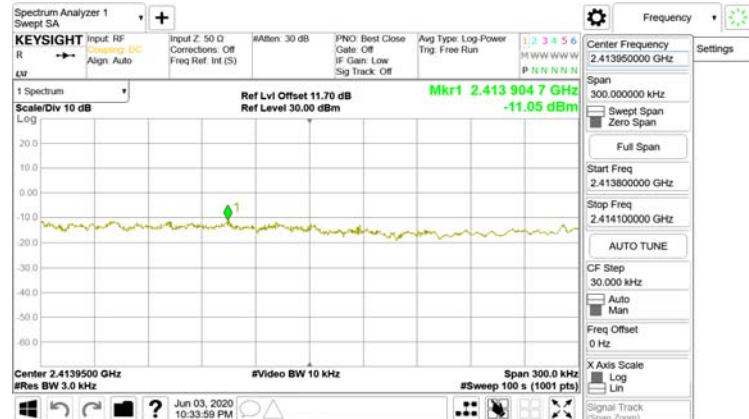
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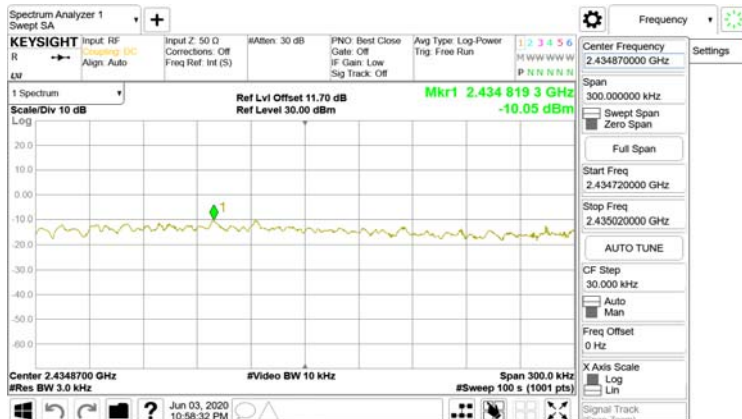
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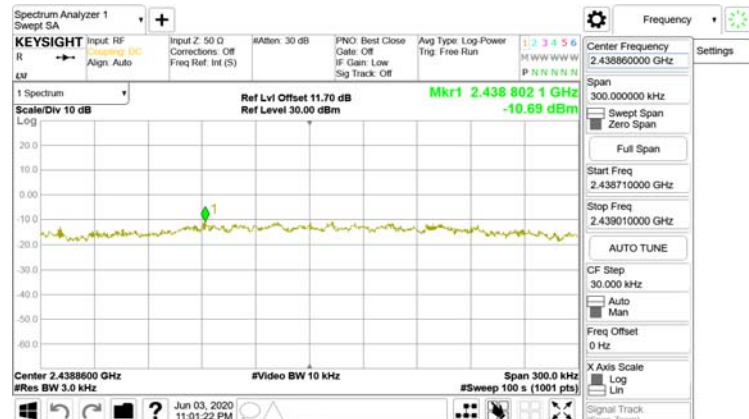
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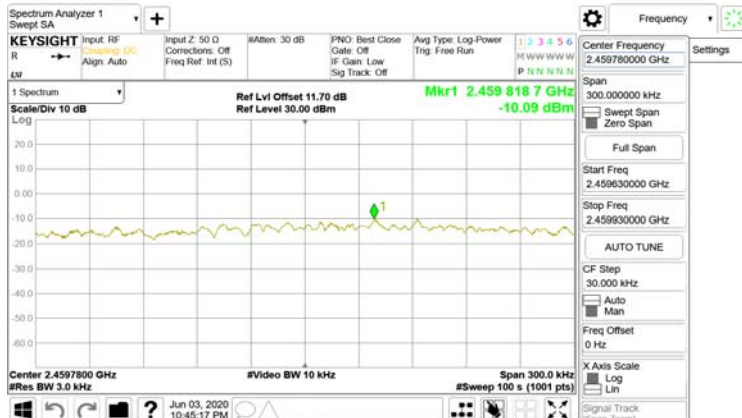
功率密度_802.11g_20MHz_Chain0_2437MHz



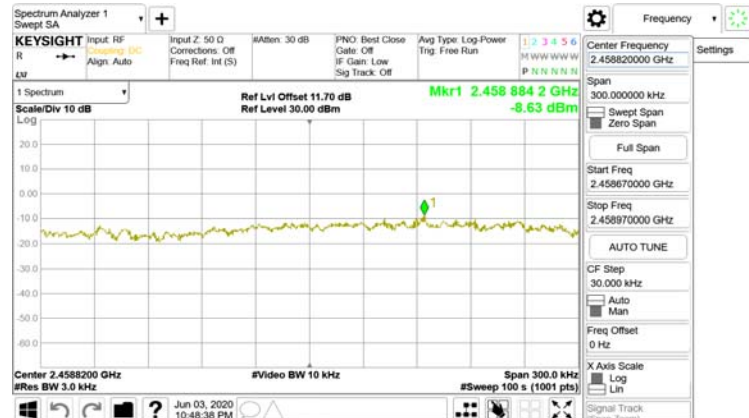
功率密度_802.11g_20MHz_Chain1_2437MHz



功率密度_802.11g_20MHz_Chain0_2462MHz



功率密度_802.11g_20MHz_Chain1_2462MHz

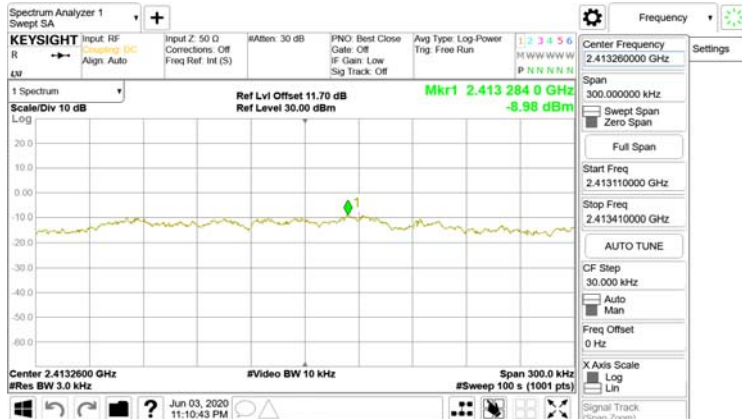


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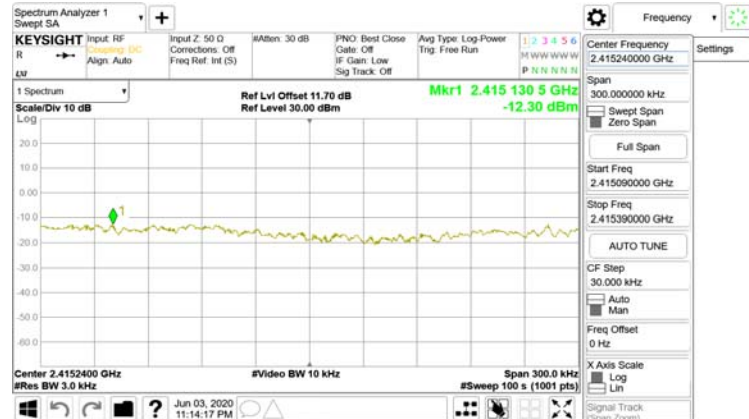
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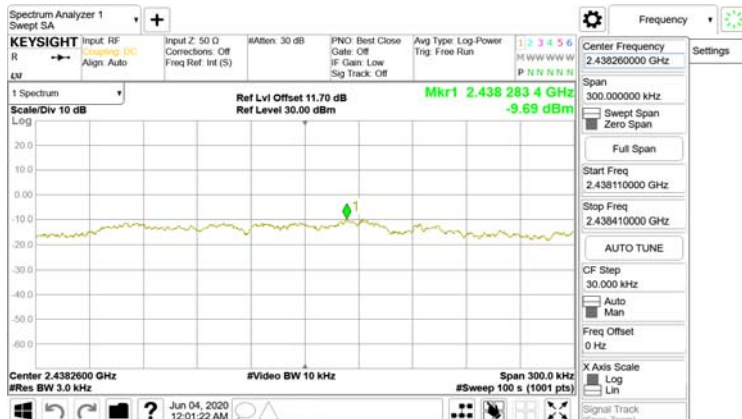
功率密度_802.11n_20MHz_Chain0_2412MHz



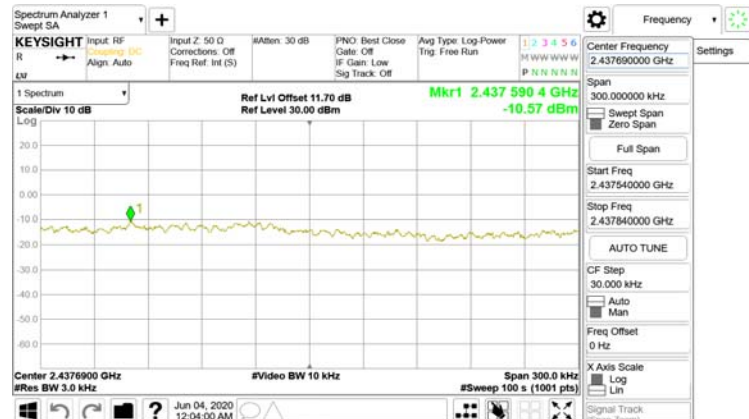
功率密度_802.11n_20MHz_Chain1_2412MHz



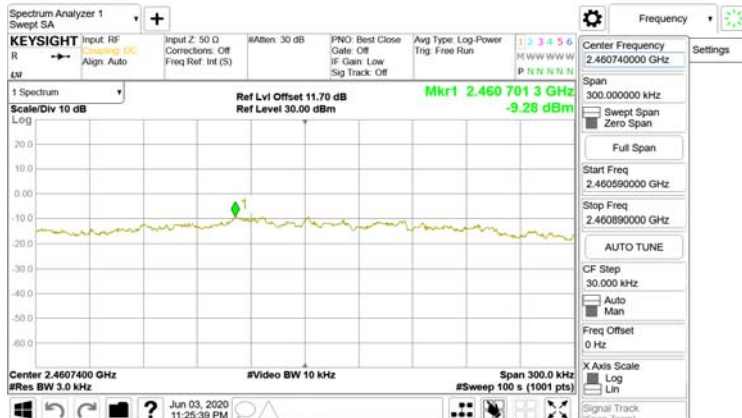
功率密度_802.11n_20MHz_Chain0_2437MHz



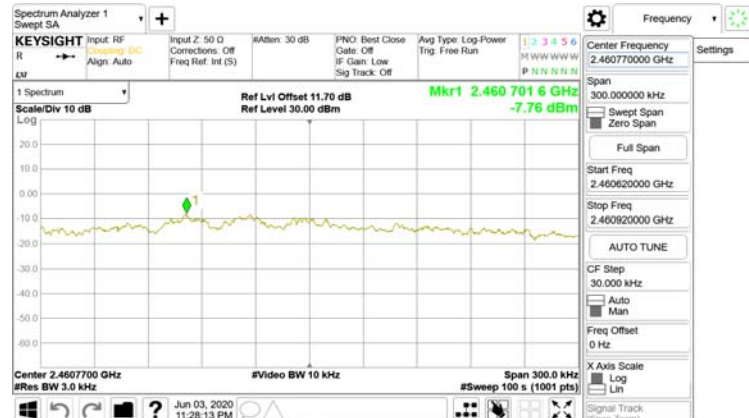
功率密度_802.11n_20MHz_Chain1_2437MHz



功率密度_802.11n_20MHz_Chain0_2462MHz



功率密度_802.11n_20MHz_Chain1_2462MHz

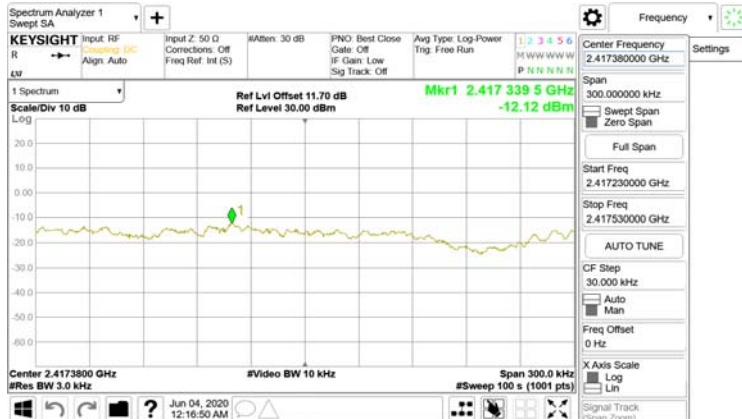


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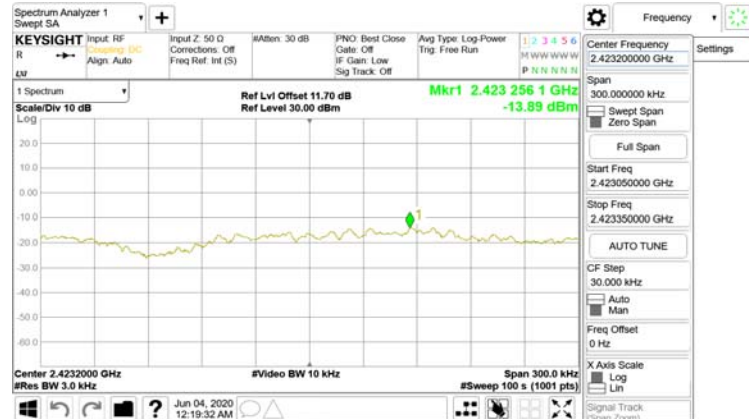
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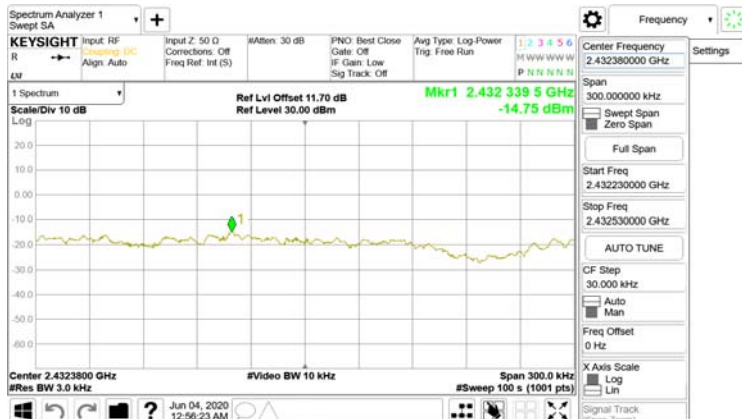
功率密度_802.11n_40MHz_Chain0_2422MHz



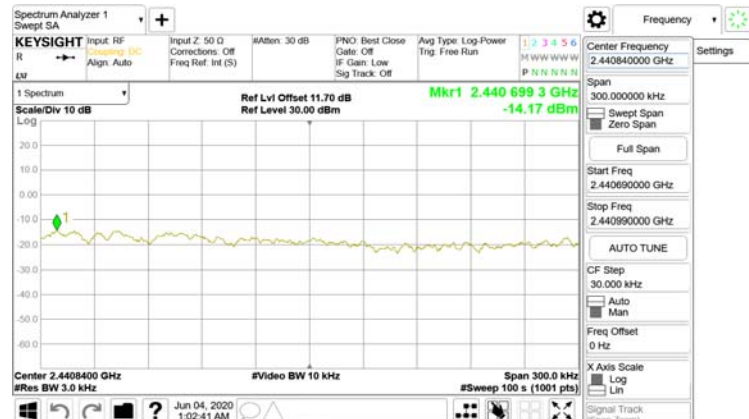
功率密度_802.11n_40MHz_Chain1_2422MHz



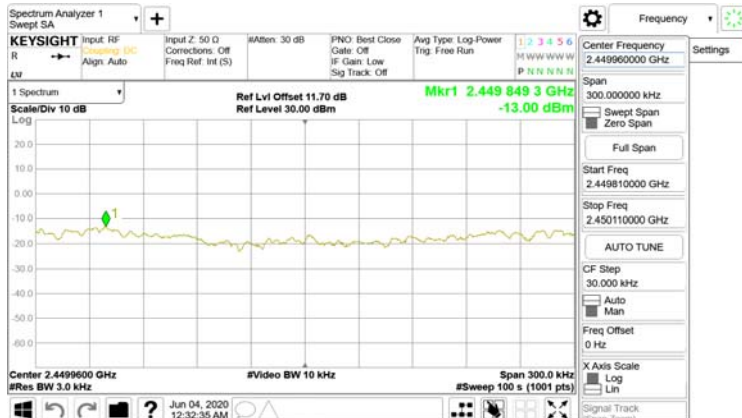
功率密度_802.11n_40MHz_Chain0_2437MHz



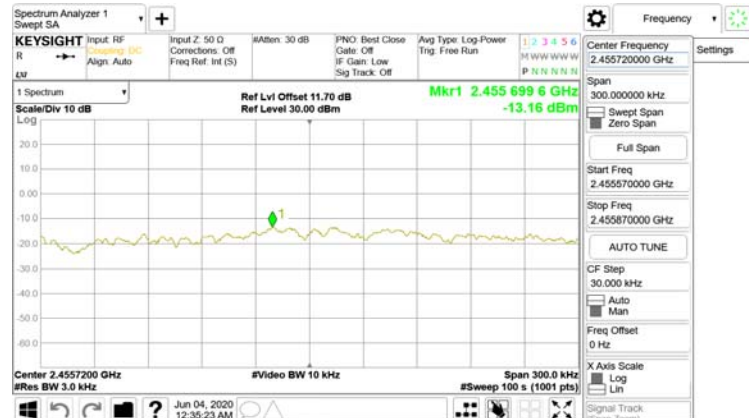
功率密度_802.11n_40MHz_Chain1_2437MHz



功率密度_802.11n_40MHz_Chain0_2452MHz



功率密度_802.11n_40MHz_Chain1_2452MHz



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~ End of Report ~

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