

低功率射頻器材試驗報告



申請廠商 英大貿易股份有限公司
臺南市南區彰南里新愛路15號1樓
製造廠商 Harman International Industries, Incorporated
產品名稱 WIRELESS SPEAKER
廠牌 JBL
型號 L75ms
型號差異 N/A
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Approved By:

楊景嵐

待測裝置已於台灣檢驗科技股份有限公司射頻實驗中心，依據國家通訊傳播委員會於中華民國一百零九年七月頒佈之低功率射頻器材技術規範 LP0002 測試。

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
ER/2021/C0040	00	Original.	民國 111 年 2 月 21 日	張嘉芳	-
ER/2021/C0040	01	修正部分數據 呈現	民國 111 年 3 月 3 日	張嘉芳	*

Note:

- 1、標註「*」為報告尚未正式取證前，因認證機構意見修改之版本。
- 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 ER/2021/C0038 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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1 測試實驗室資料

1.1 認可登錄資訊:

實驗室認可登錄： 中華民國實驗室認證體系

認可編號： TAF 3702

認證有效期間： 110年06月14日起至113年06月13日止

實驗室名稱： 台灣檢驗科技股份有限公司射頻實驗中心

實驗室地址： 新北市新北產業園區五工路134號

電話： 886-2-22993939

傳真： 886-2-22982698

1.2 實驗室場地資訊

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

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2 實驗室量測不確定度

量測項目	量測不確定度			
	(擴充不確定度)			
傳導干擾量測	電源線	0.15-30MHz	2.34	dB
輻射干擾量測 (3m 測距)	水平極化	9kHz - 30MHz	2.57	dB
		30-1000MHz	4.37	dB
		1-18GHz	4.45	dB
		18-40GHz	4.24	dB
	垂直極化	9kHz - 30MHz	2.57	dB
		30-1000MHz	4.85	dB
		1-18GHz	4.45	dB
		18-40GHz	4.24	dB
頻率誤差量測			1.53	Hz
輸出功率	傳導方式		1	dB
有效輻射功率 (輻射方式)	水平極化	30-1000MHz	2.03	dB
		1-40GHz	3	dB
	垂直極化	30-1000MHz	2.35	dB
		1-40GHz	3	dB
功率頻譜密度	傳導方式		1.62	dB
鄰頻道功率量測 (輻射方式)	水平極化	30-1000MHz	2.03	dB
	垂直極化	30-1000MHz	2.35	dB
Transmitter Spurious Emission	33GHz-50GHz		3.8	dB
	50GHz-60GHz		4.67	dB
	60GHz-90GHz		4.81	dB
	90GHz-140GHz		4.57	dB
	140GHz-200GHz		5.42	dB

附註: 1. K=2 即代表測試結果具有95%的量測可信度。

2. 本報告中的符合性判定僅依據試驗結果，不考慮其試驗結果的量測不確定度。

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3 一般資料

3.1 產品描述

產品名稱	WIRELESS SPEAKER
廠牌	JBL
型號	L75ms
型號差異	N/A
使用電源	110 Vac from AC adapter
測試軟體 (名稱/版本)	Tera Term/4.73

3.2 射頻特性

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Modulation Technology
802.11b	2412~2462	11	21.97	DSSS
802.11g	2412~2462	11	25.18	OFDM
802.11n20	2412~2462	11	27.01	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS		
		64QAM, 16QAM, QPSK, BPSK for OFDM		
Data 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		

3.3 天線資訊

Antenna Type	Brand	Antenna No.	Antenna Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain (dBi)
Dipole	M.gear	ANT 1	EAN00235	2400~2500	5	8.01
		ANT 2			5	8.01

Note: Antenna information is provided by the applicant.

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3.4 配件資訊

以下配件及電源供應方式經申請者切結，由實驗室或申請者提供併同檢驗。

是否附賣		實驗室 提供	申請者 提供	配件	廠牌	型號	備註
Yes	No						
☐	☒	☒	☐	USB Dongle	TEAMGROUP	C175 16GB	5Vdc
☐	☒	☒	☐	Cat.5e Cable	RONEVER	VPH-02	N/A
☐	☒	☒	☐	HDMI Cable	BENEVO	BHDMI8010K	N/A
☐	☒	☒	☐	AUX IN 線	深圳市潤鑫成 電子有限公司	RXC 徐港-20070803	N/A
☐	☒	☒	☐	紅白黃 AV 端子轉 AUX	I-WIZ	AD-35	N/A
☒	☐	☐	☒	電源線	I SHENG	H03VVH2-F	N/A

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4 產品特性

此裝置符合IEEE Std 802.11標準，使用頻率表如下：

頻寬 20MHz 調變	
頻率範圍 2400 MHz – 2483.5 MHz	
2412	2442
2417	2447
2422	2452
2427	2457
2432	2462
2437	

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5 測試方法之依據

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

項次	測試項目	適用規範	測試結果
1	場強輻射	低功率射頻器材技術規範 3.5 & 3.6 節	符合
2	電源線傳導干擾	低功率射頻器材技術規範3.3節	符合
3	天線增益要求	低功率射頻器材技術規範4.10.1.3 (1) 節	符合
4	發射頻寬	低功率射頻器材技術規範4.10.1.6(2) (A) 節	符合
5	輸出峰值功率	低功率射頻器材技術規範4.10.1.2(1) (C) 節	符合
6	帶外發射限制	低功率射頻器材技術規範4.10.1.5節	符合
7	功率密度	低功率射頻器材技術規範4.10.1.6(2) (B) 節	符合

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6 量測模式

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

Modulation		Transmission Chain								Single Transmission Spatial		Multi Transmission Spatial	
v	802.11 b	v	Ch0	v	Ch1		Ch2		Ch3	v	1TX		2TX
v	802.11 g	v	Ch0	v	Ch1		Ch2		Ch3	v	1TX		2TX
v	802.11 n	v	Ch0	v	Ch1		Ch2		Ch3		SISO	v	MIMO
	802.11 ax		Ch0		Ch1		Ch2		Ch3		SISO		MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

Conducted					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	ch0
802.11g	1 to 11	1,6,11	OFDM	6	ch0
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS8	MIMO
RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	1,6,11	OFDM	6	ch0
RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	ch0
802.11g	1 to 11	1,6,11	OFDM	6	ch0
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS8	MIMO

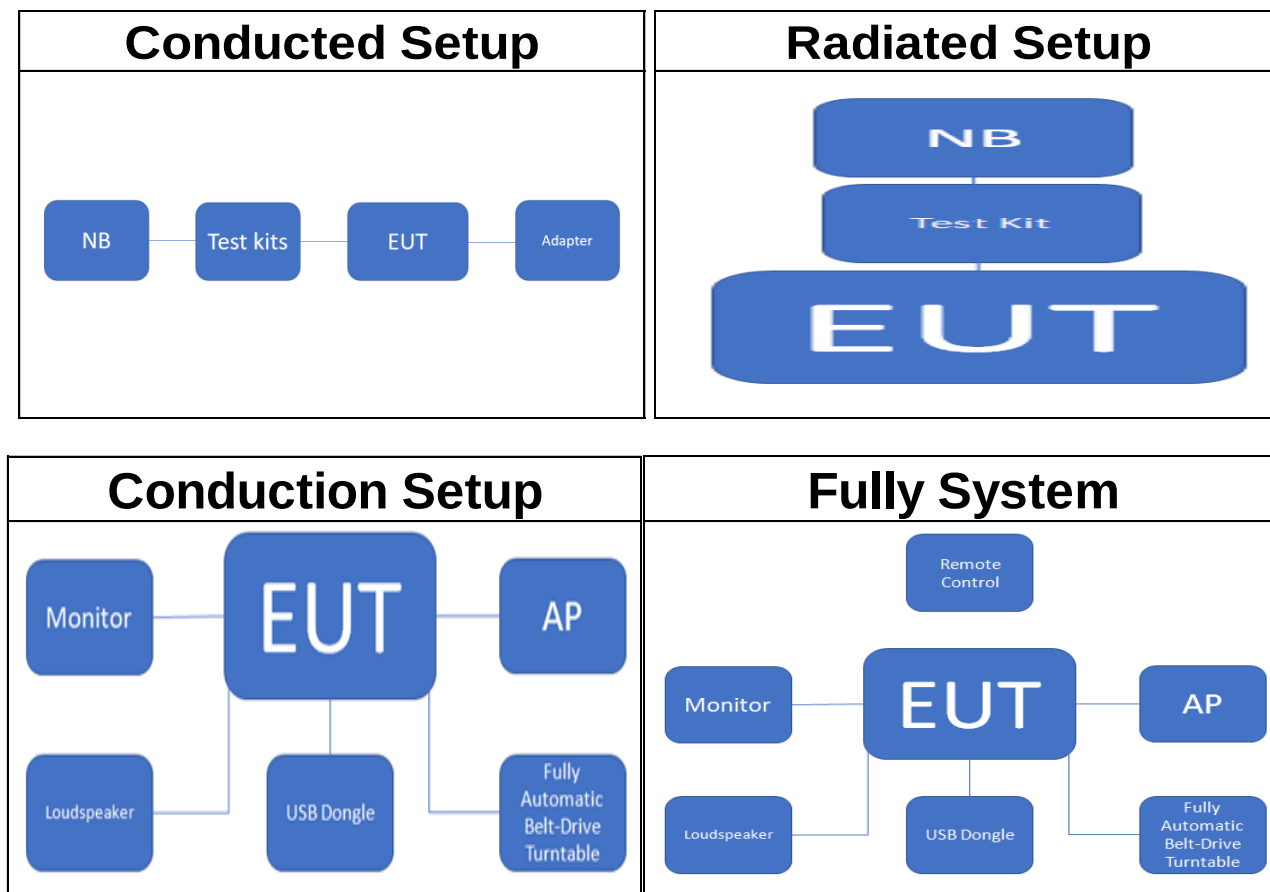
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7 測試週邊

7.1 待測物與測試週邊配置圖



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7.2 測試週邊描述

7.2.1 Conduction

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R
Power cord	I SHENG	H03VVH2-F	N/A	N/A	N/A
AP	TP-LINK	AD7200	2167854000639	N/A	N/A
Monitor	DELL	U2413f	CH-06VNX5-72872-34D-A6YL	N/A	N/A
Fully Automatic Belt-Drive Turntable	audio-technica	AT-LP60X	212882217	N/A	N/A
黑色膠片	audio-technica	4.7102E+12	N/A	N/A	N/A
Loudspeaker	OZAKI	WR325	N/A	N/A	N/A
USB Dongle	TEAMGROUP	C175 16GB	N/A	N/A	N/A
Cat.5e Cable	RONEVER	VPH-02	1500021123	N/A	N/A
HDMI Cable	BENEVO	BHDMI8010 K	N/A	N/A	N/A
AUX IN線	深圳市潤鑫成電子有限公司	RXC徐港-20070803	N/A	N/A	N/A
紅白黃AV端子轉AUX	I-WIZ	AD-35	N/A	N/A	N/A

7.2.2 Conducted

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power code	I SHENG	H03VVH2-F	N/A	N/A	N/A
Micro USB Cable	RONEVER	VPC-70	N/A	N/A	N/A
Test Kit	HK CITATION	E322995	N/A	N/A	N/A
Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A

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7.2.3 Radiated

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R
Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A
Test Kit	HK CITATION	E322995	N/A	N/A	N/A
Micro USB Cable	RONEVER	VPC-70	N/A	N/A	N/A
Power cord	I SHENG	H03VVH2-F	N/A	N/A	N/A

7.2.4 Fully System

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R
Power cord	I SHENG	H03VVH2-F	N/A	N/A	N/A
AP	TP-LINK	AD7200	2167854000639	N/A	N/A
Monitor	DELL	U2413f	CH-06VNX5-72872-34D-A6YL	N/A	N/A
Power cord	WELL SHIN	E115330	N/A	N/A	N/A
Fully Automatic Belt-Drive Turntable	audio-technica	AT-LP60X	212882217	N/A	N/A
黑色膠片	audio-technica	4.71E+12	N/A	N/A	N/A
Loudspeaker	OZAKI	WR325	N/A	N/A	N/A
USB Dongle	TEAMGROUP	C175 16GB	N/A	N/A	N/A
Cat.5e Cable	RONEVER	VPH-02	1500021123	N/A	N/A
Remote Control	JBL	V1.0.0	N/A	N/A	N/A
HDMI Cable	BENEVO	BHDMI8010 K	N/A	N/A	N/A
AUX IN線	深圳市潤鑫成電子有限公司	RXC徐港-20070803	N/A	N/A	N/A
紅白黃AV端子轉AUX	I-WIZ	AD-35	N/A	N/A	N/A

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8 適用規範

禁用頻帶限制之規定

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

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

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

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9 電源線傳導干擾量測

9.1 適用標準

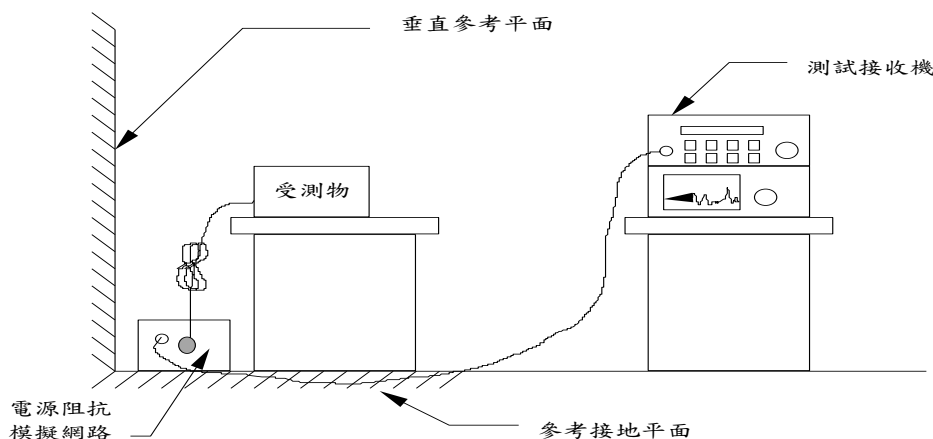
依據NCC低功率射頻器材技術規範之3.3節，以市電為電源之低功率射頻器材，其傳導回電源線上頻率自150 kHz~30 百萬赫(MHz) 之射頻電壓(在電源端子每一電源線對接地點)應小於或等於下表所列之限制值。測量時應經過50 微亨利(uH)及50 歐姆(Ω)之電源線阻抗穩定網路。頻率重疊處，以較低限制值為準。

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

9.2 測試方法

將待測物置於0.8米高的非金屬桌面，使其在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由 0.15MHz 至 30MHz 之間之電源線傳導放射強度的峰值量側(Peak)並提供掃描圖, Mark 最大的六個頻率點進行準峰值量測(QP),如果準峰值QP結果值已低於AV限制值時將不再進行AV值的量測。

9.3 測試配置



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9.4 量測儀器

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK	NSLK 8127	1040	08/10/2021	08/09/2022
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2021	12/06/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022

9.5 干擾值計算

電源傳導干擾電壓計算公式 =

儀器讀值(QP/AV) + 校正因子 (饋線損失 + 電源阻抗模擬網路損失)

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9.6 傳導干擾量測結果

Report Number :ER/2021/C0038

Test Site :Conduction 1

Test Mode :Operation

Test Date :2022-01-07

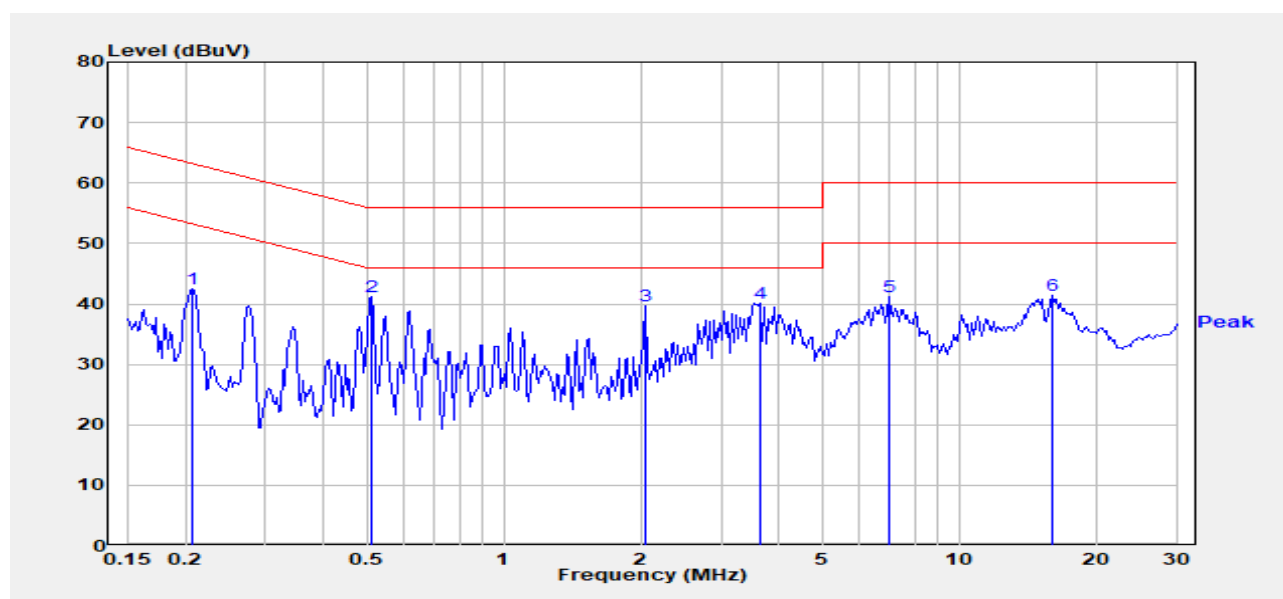
Power :110V/60Hz

Temp./Humi. :23.6/63

Probe :L

Engineer :GN Lin

Note: :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.206	Peak	42.45	0.02	42.47	63.36	-20.89
0.513	Peak	41.06	0.12	41.18	56.00	-14.82
2.055	Peak	39.45	0.18	39.63	56.00	-16.37
3.642	Peak	39.44	0.71	40.15	56.00	-15.85
7.025	Peak	40.73	0.47	41.20	60.00	-18.80
16.055	Peak	41.00	0.37	41.36	60.00	-18.64

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Report Number :ER/2021/C0038

Test Mode :Operation

Power :110V/60Hz

Probe :N

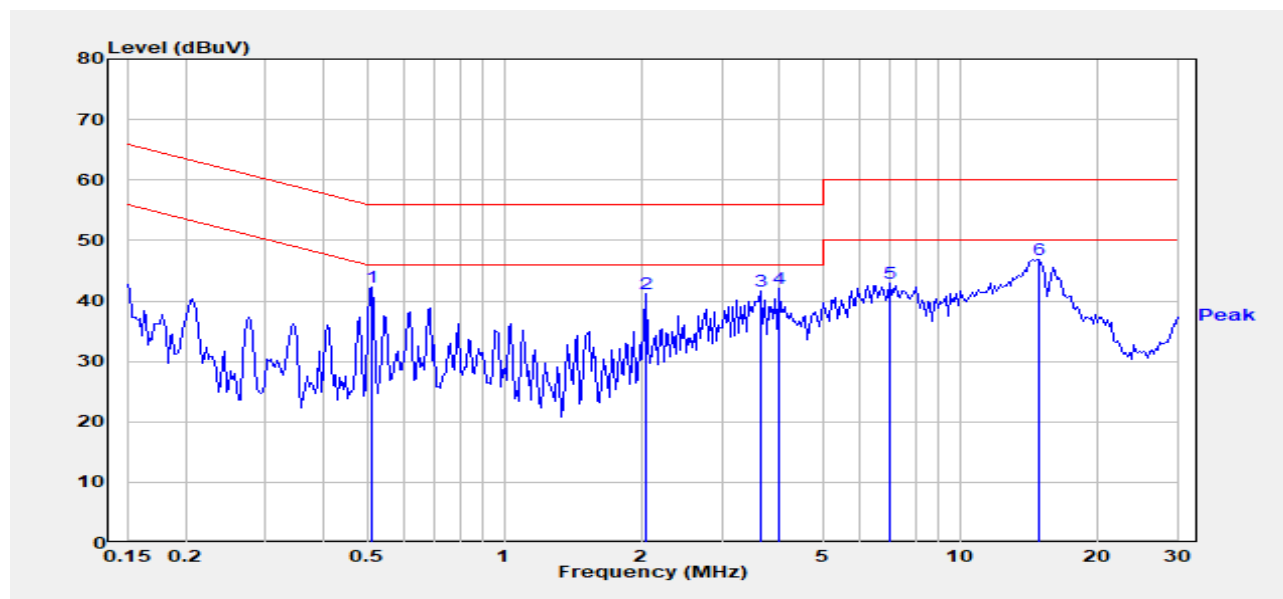
Note: :

Test Site :Conduction 1

Test Date :2022-01-07

Temp./Humi. :23.6/63

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV	Limit dBuV	Margin dB
0.513	Peak	40.10	2.12	42.22	56.00	-13.78
2.055	Peak	39.04	2.15	41.19	56.00	-14.81
3.642	Peak	39.54	2.18	41.72	56.00	-14.28
4.006	Peak	39.95	2.18	42.13	56.00	-13.87
7.025	Peak	40.67	2.24	42.91	60.00	-17.09
14.907	Peak	44.57	2.30	46.88	60.00	-13.12

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10 輸出峰值功率量測

10.1 適用標準

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

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

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

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

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

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

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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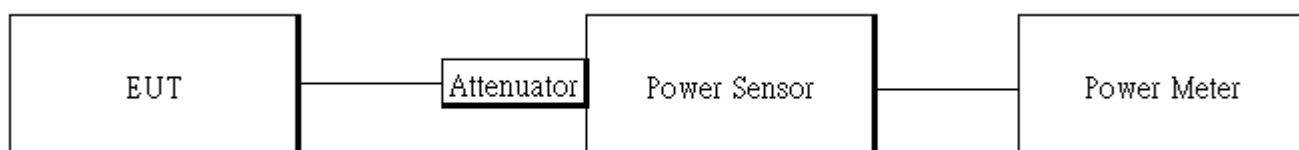
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10.2 量測儀器

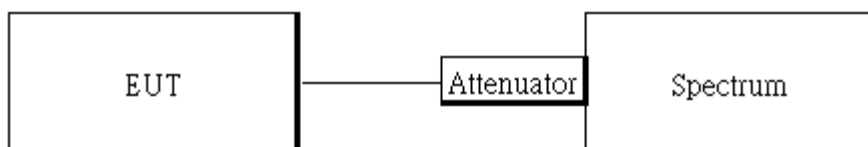
Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/09/2021	12/08/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A

10.3 測試配置

10.3.1 輸出峰值量測



10.3.2 載波頻率工作週期量測



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10.4 量測方式

10.4.1 載波頻率工作週期儀器設定

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

10.4.2 輸出功率量測

1. 將 EUT 置於發射模式。
2. 移除天線，使用 low loss cable 連接 EUT 的 antenna port 及 power meter。
3. 檢查每種模式的工作週期以補償工作週期校正因子 (Duty Factor)。
4. 紀錄最大功率讀值。
5. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

Cable Loss Offset (dB)
9.6

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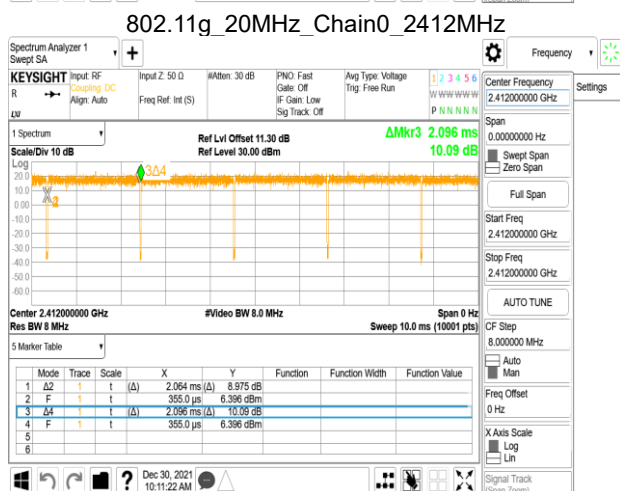
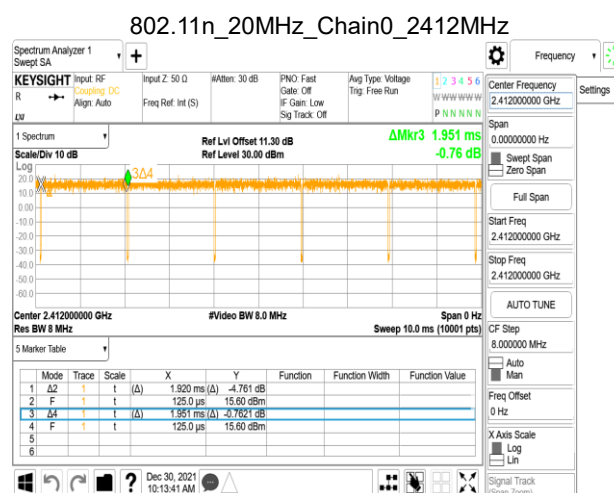
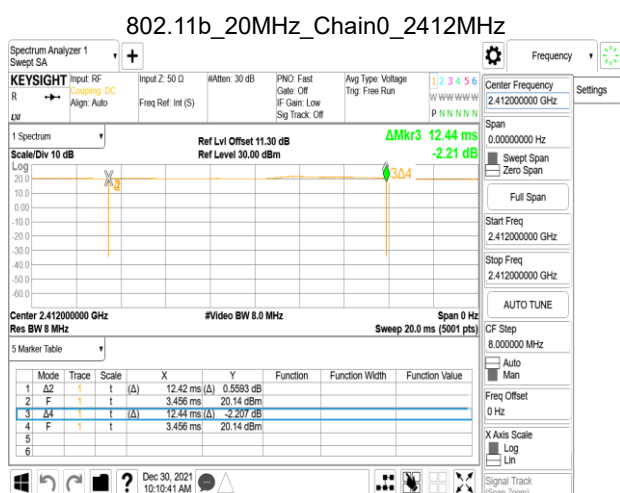
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10.5 量測結果

10.5.1 載波頻率工作週期

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.81	0.01	0.08	0.01
802.11g	98.47	0.07	0.48	0.01
802.11n_20	98.41	0.07	0.52	0.01



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10.5.2 輸出功率

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	-1	19.90	30.00	PASS
6	2437	1	-1	21.97	30.00	PASS
11	2462	1	-1	19.31	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	-1	16.85	30.00	PASS
6	2437	1	-1	19.02	30.00	PASS
11	2462	1	-1	16.27	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	-1	18.80	30.00	PASS
6	2437	1	-1	21.23	30.00	PASS
11	2462	1	-1	19.05	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	-1	15.70	30.00	PASS
6	2437	1	-1	18.16	30.00	PASS
11	2462	1	-1	15.98	30.00	PASS

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802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	-1	25.05	30.00	PASS
6	2437	6	-1	25.18	30.00	PASS
11	2462	6	-1	25.05	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	-1	15.54	30.00	PASS
6	2437	6	-1	17.25	30.00	PASS
11	2462	6	-1	14.95	30.00	PASS
802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	-1	24.83	30.00	PASS
6	2437	6	-1	24.65	30.00	PASS
11	2462	6	-1	24.24	30.00	PASS
802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	-1	14.63	30.00	PASS
6	2437	6	-1	16.77	30.00	PASS
11	2462	6	-1	14.63	30.00	PASS

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802.11nHT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	-0 -d 14	23.72	30.00	PASS
6	2437	MCS0	-1	24.05	30.00	PASS
11	2462	MCS0	-0 -d 15	23.98	30.00	PASS
802.11nHT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	-0 -d 14	13.08	30.00	PASS
6	2437	MCS0	-1	16.22	30.00	PASS
11	2462	MCS0	-0 -d 15	14.14	30.00	PASS
802.11nHT_20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	-0 -d 14	23.56	30.00	PASS
6	2437	MCS0	-1	23.78	30.00	PASS
11	2462	MCS0	-0 -d 15	23.55	30.00	PASS
802.11nHT_20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	-0 -d 14	13.01	30.00	PASS
6	2437	MCS0	-1	15.65	30.00	PASS
11	2462	MCS0	-0 -d 15	13.57	30.00	PASS

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802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	-o -d 14	23.98	23.86	26.93	27.99	PASS
6	2437	MCS8	-1	24.07	23.88	26.99	27.99	PASS
11	2462	MCS8	-o -d 15	24.05	23.95	27.01	27.99	PASS
802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	-o -d 14	13.05	12.95	16.08	27.99	PASS
6	2437	MCS8	-1	16.24	15.70	19.06	27.99	PASS
11	2462	MCS8	-o -d 15	14.09	13.52	16.89	27.99	PASS

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11 發射頻寬要求

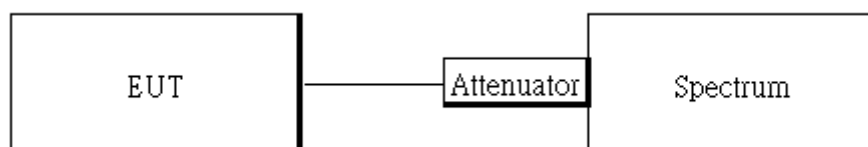
11.1 適用標準

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

11.2 量測儀器

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/09/2021	12/08/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A

11.3 測試配置



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11.4 量測方法

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as
RBW= 100kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW ,
Sweep=auto,
Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Repeat above procedures until all test default channel is completed

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11.5 量測結果

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	7112.00	≥ 500	PASS
2437	7117.00	≥ 500	PASS
2462	7101.00	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16350.00	≥ 500	PASS
2437	16360.00	≥ 500	PASS
2462	16350.00	≥ 500	PASS

802.11nHT_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16130.00	≥ 500	PASS
2437	17600.00	≥ 500	PASS
2462	17310.00	≥ 500	PASS

802.11nHT_20M Ch1

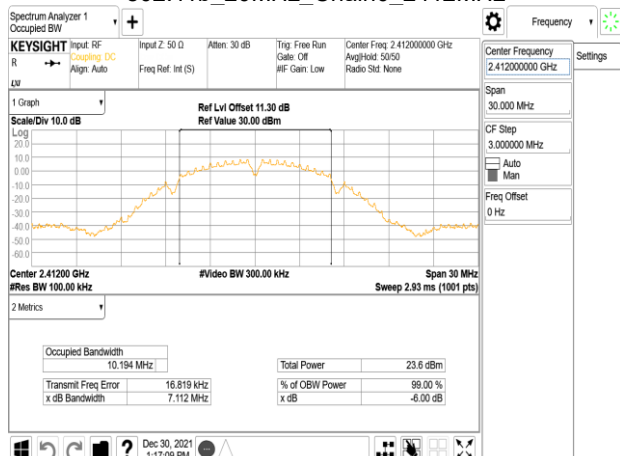
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16360.00	≥ 500	PASS
2437	17610.00	≥ 500	PASS
2462	17600.00	≥ 500	PASS

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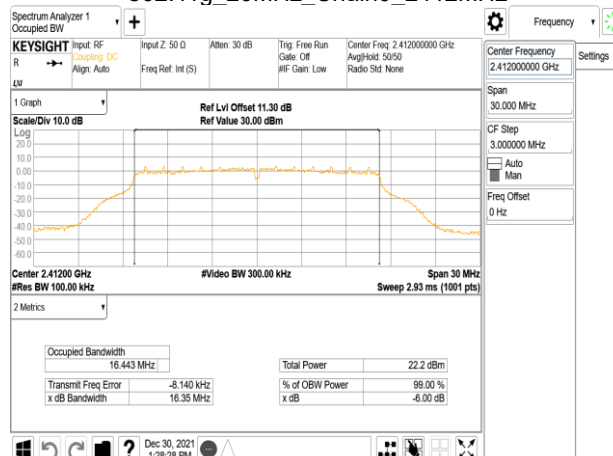
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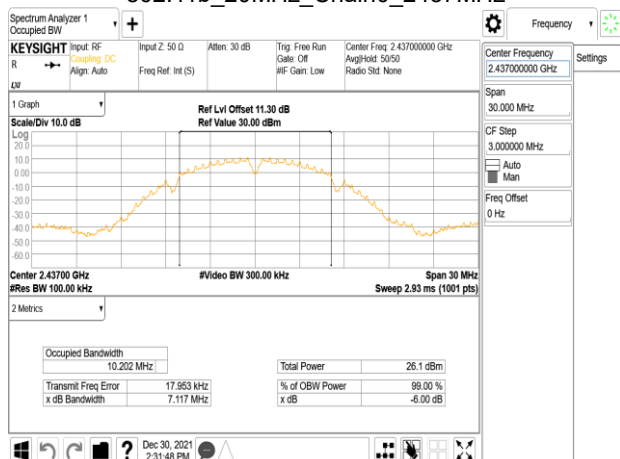
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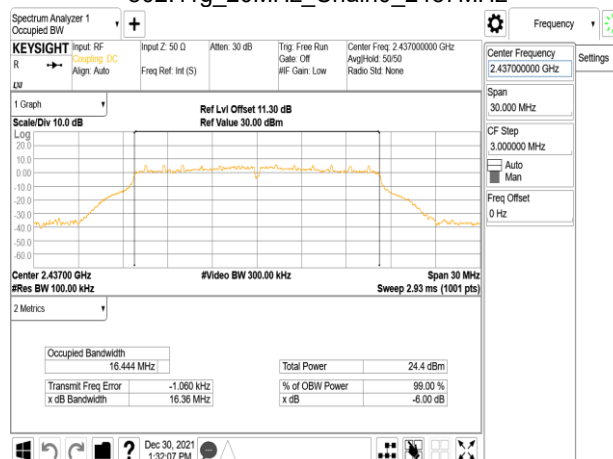
802.11g_20MHz_Chain0_2412MHz



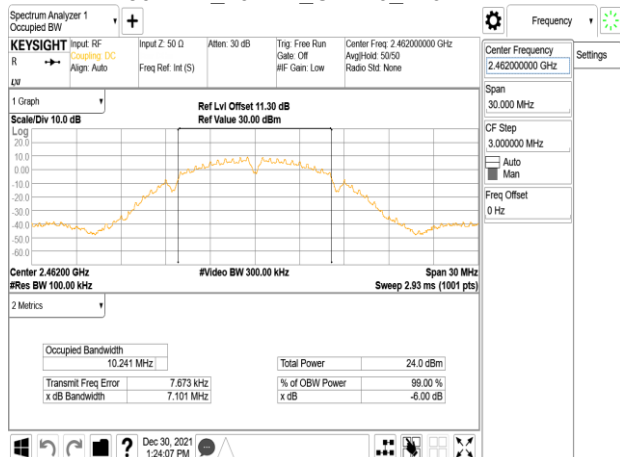
802.11b_20MHz_Chain0_2437MHz



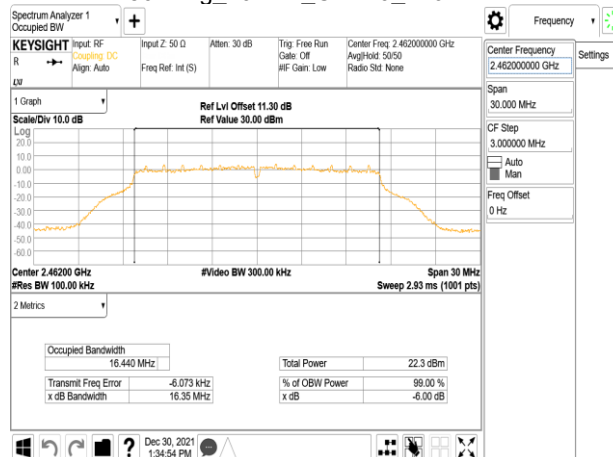
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

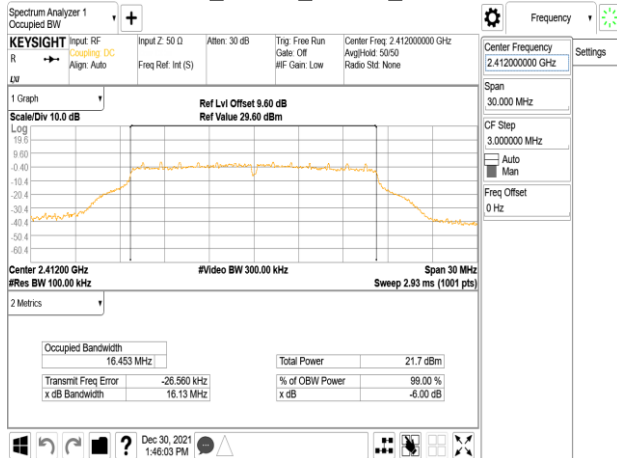


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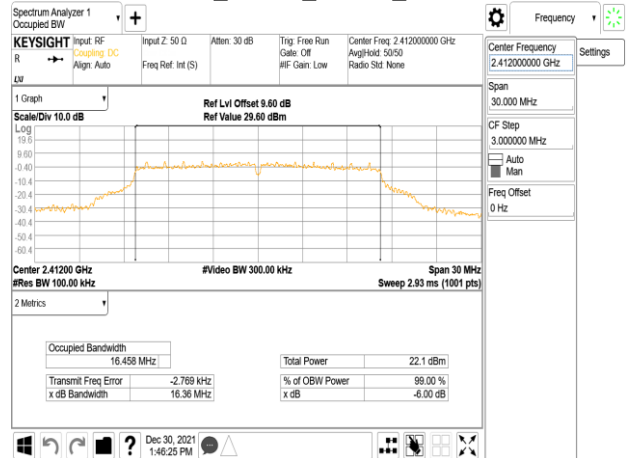
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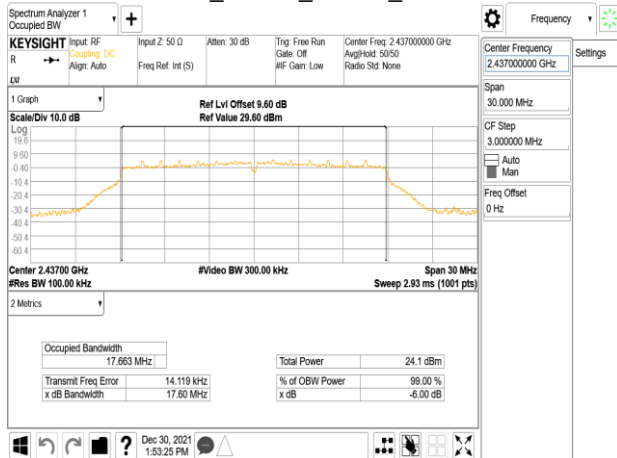
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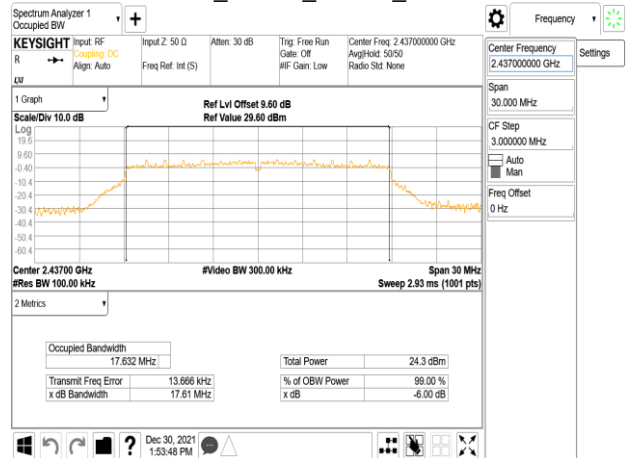
802.11n_20MHz_Chain1_2412MHz



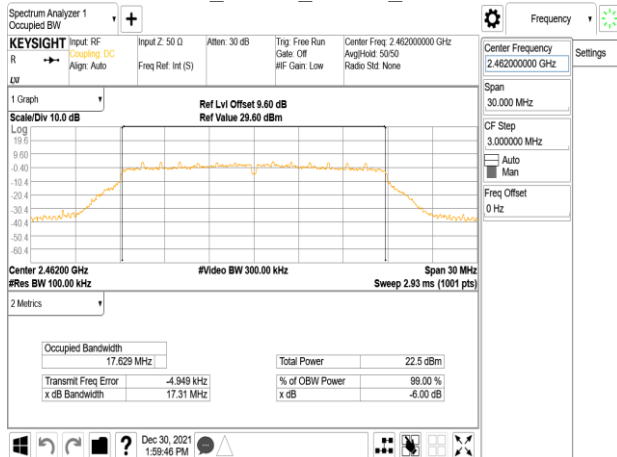
802.11n_20MHz_Chain0_2437MHz



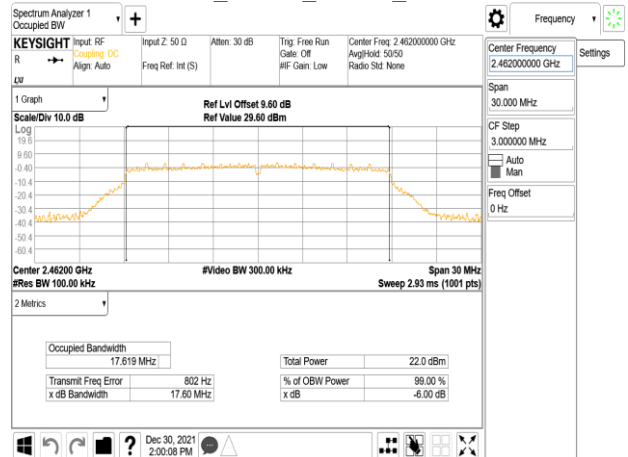
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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12 帶外發射限制

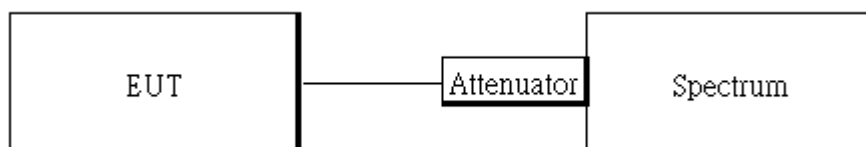
12.1 適用標準

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

12.2 量測儀器

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/09/2021	12/08/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A

12.3 測試配置



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12.4 量測方法

12.4.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

12.4.2 發射頻帶邊緣量測:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement – 20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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12.4.3 發射頻帶外量測:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.
7. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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12.5 量測結果

802.11b Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	8.46	-11.54
2437	10.94	-9.06
2462	8.88	-11.12

802.11g Ch0

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	3.63	-16.37
2437	6.04	-13.96
2462	3.84	-16.16

802.11nHT_20M Ch0

Reference Level of Limit 802.11n20 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	3.36	-16.64
2437	5.17	-14.83
2462	3.96	-16.04

802.11nHT_20M Ch1

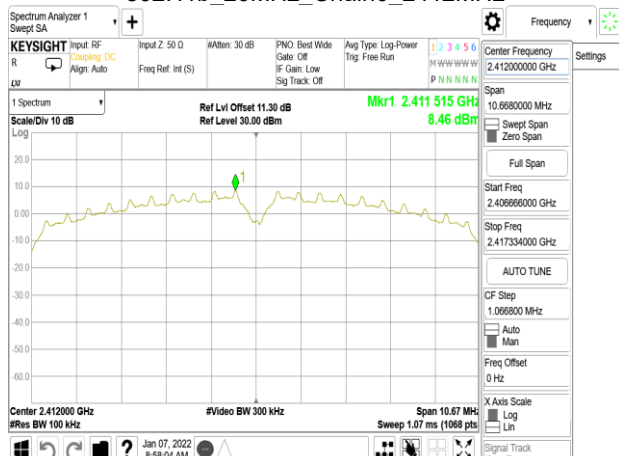
Reference Level of Limit 802.11ac20 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	3.45	-16.55
2437	5.32	-14.68
2462	3.29	-16.71

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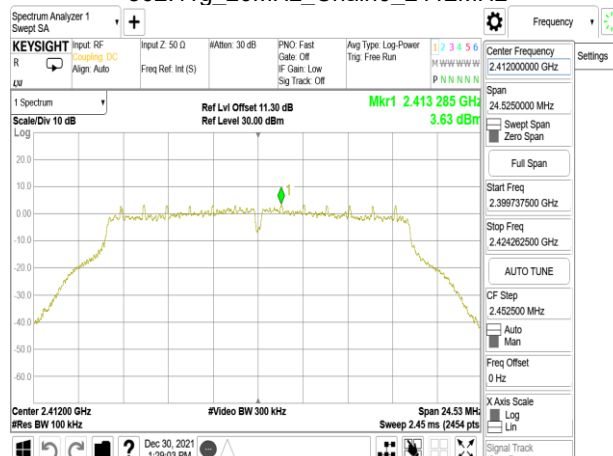
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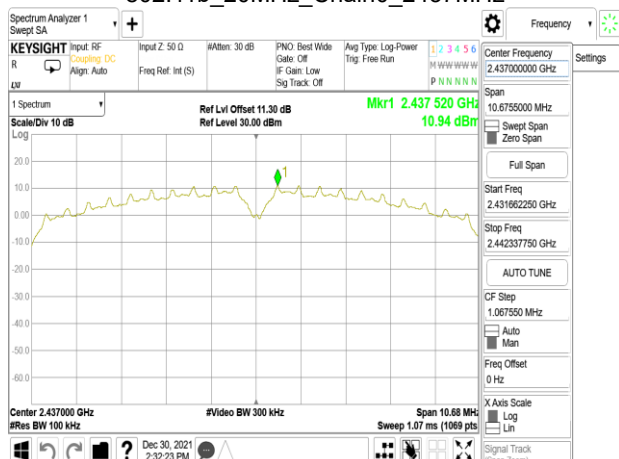
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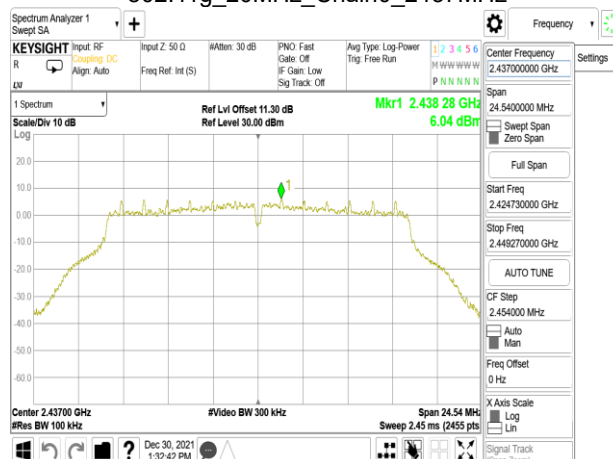
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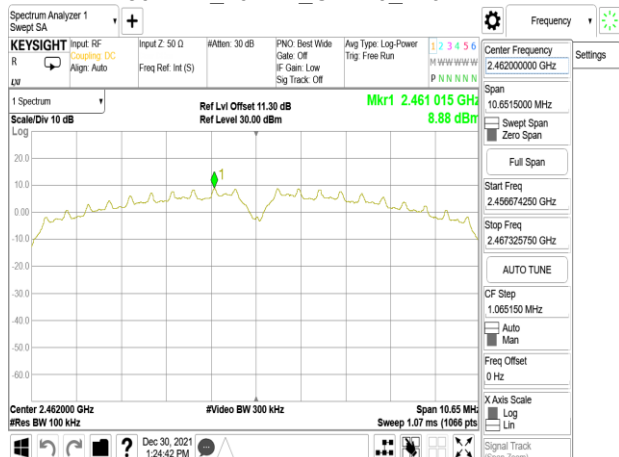
802.11b_20MHz_Chain0_2437MHz



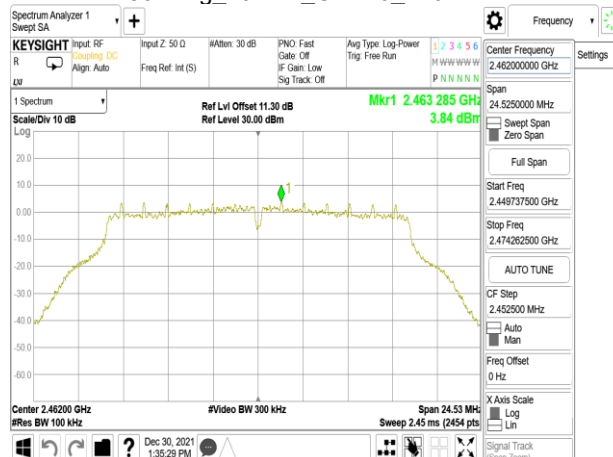
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

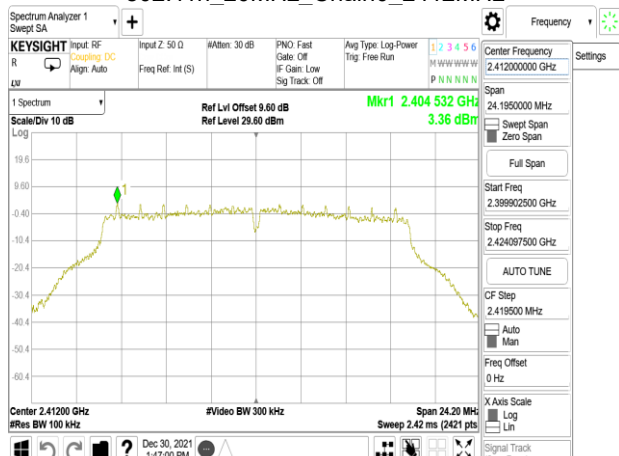


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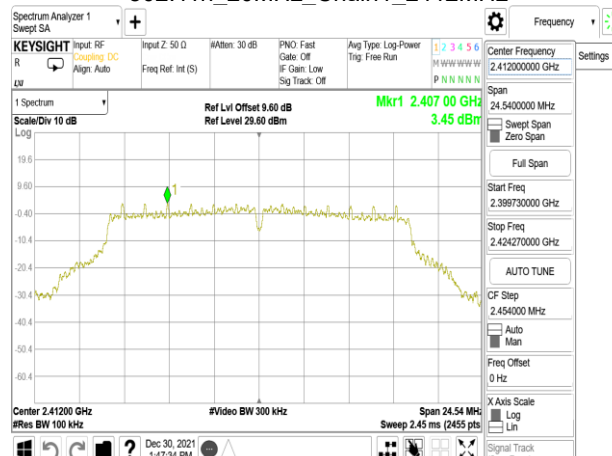
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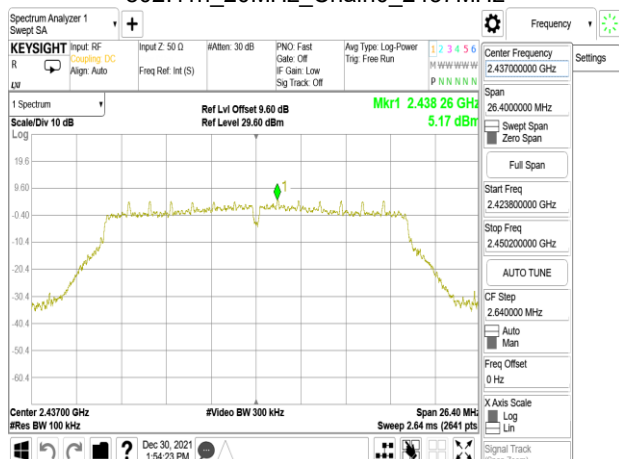
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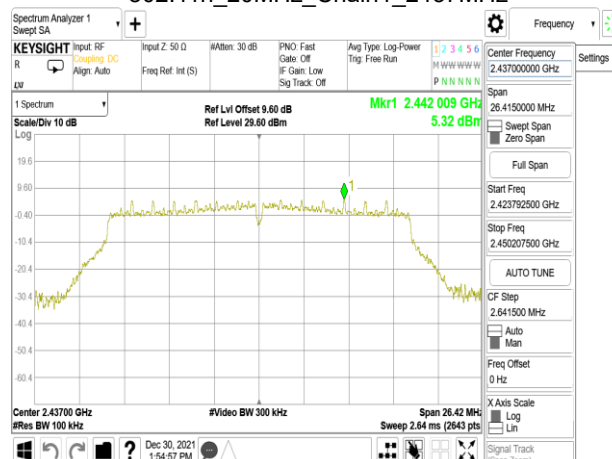
802.11n_20MHz_Chain1_2412MHz



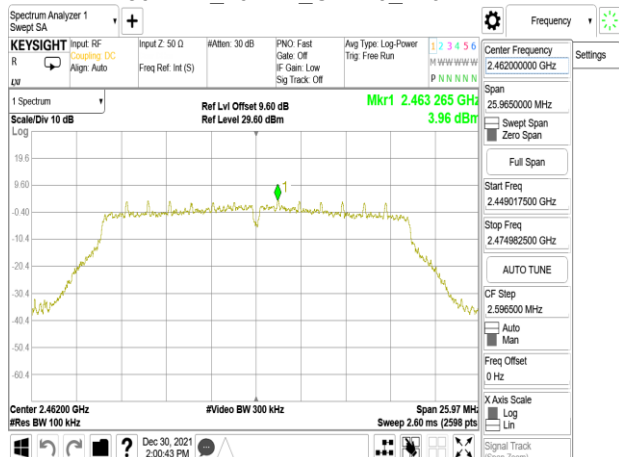
802.11n_20MHz_Chain0_2437MHz



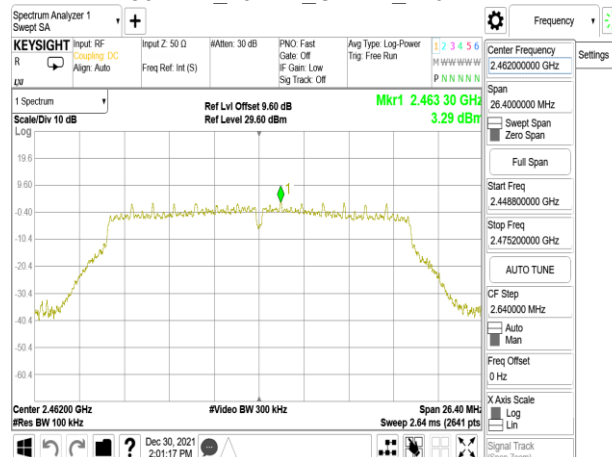
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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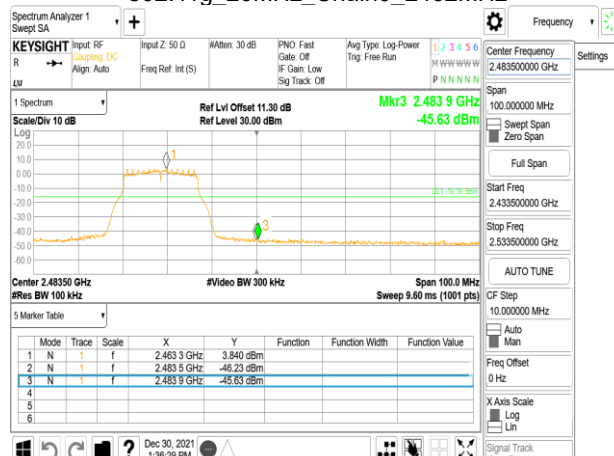
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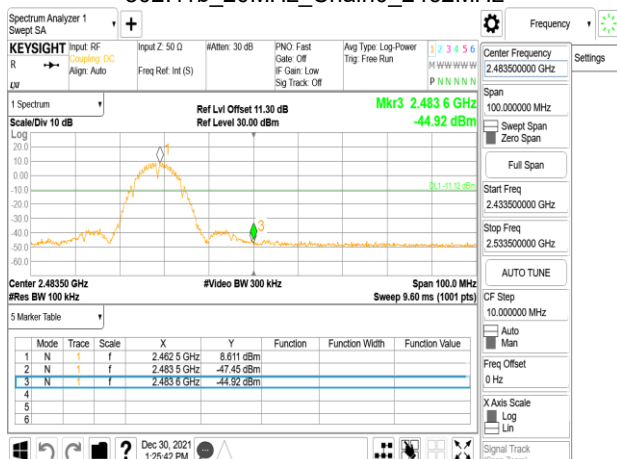
802.11b_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2462MHz

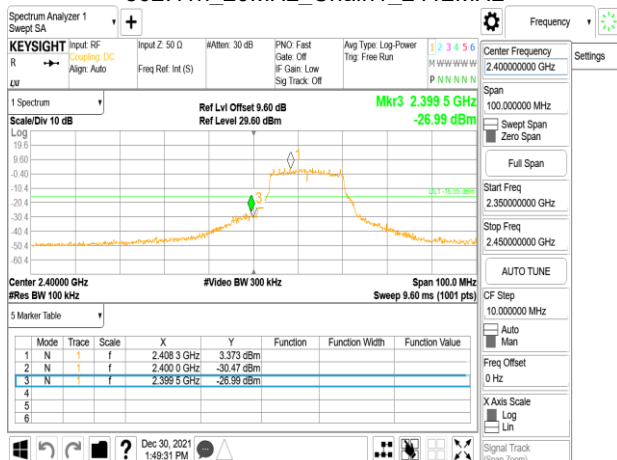


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802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2462MHz

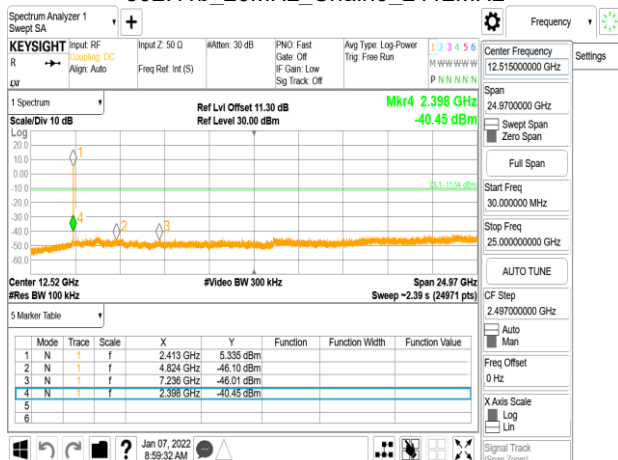


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802.11b_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz



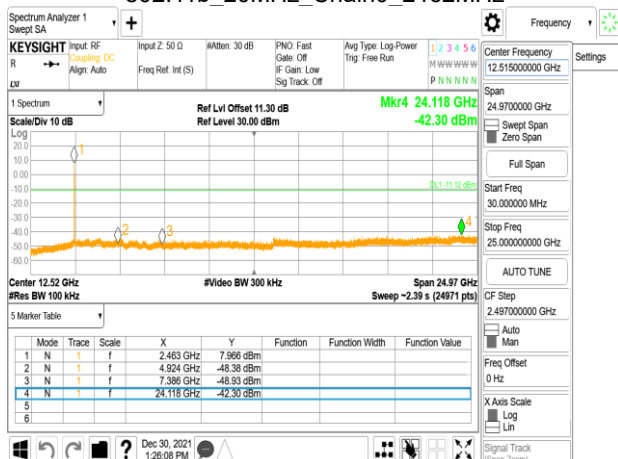
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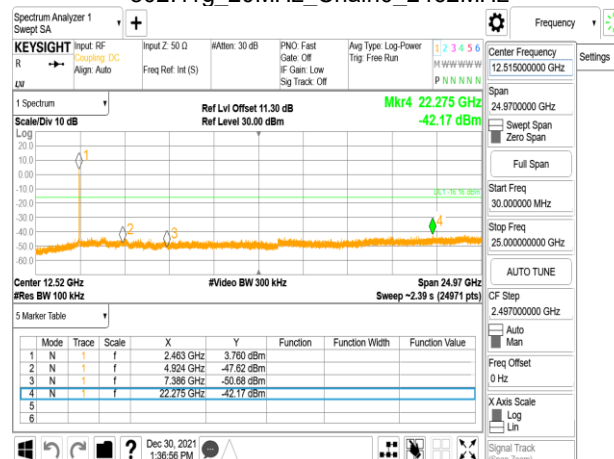
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

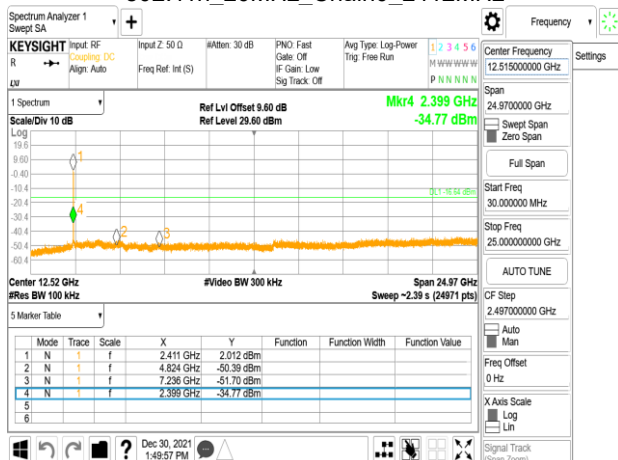


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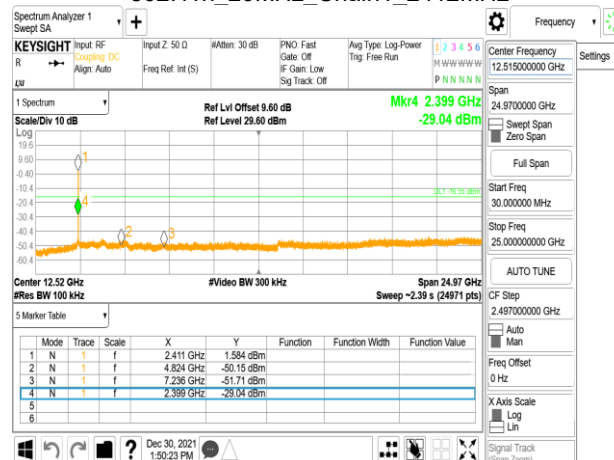
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802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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13 場強輻射量測

13.1 適用標準

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

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

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13.2 量測儀器

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBEC K	BBHA9120D	D803	12/20/2021	12/19/2022
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT- N0555	01/13/2021	01/12/2022
Horn Antenna	SCHWARZBEC K	BBHA9170	185	08/06/2021	08/05/2022
Site Cal	SGS	SAC I chamber	N/A	01/01/2022	12/31/2022
Loop Antenna	ETS.LINDGRE N	6502	148045	09/29/2021	09/28/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/26/2021	10/25/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
Pre-Amplifier	EMC Instruments	EMC184045 B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8449B	3008A01973	12/16/2021	12/15/2022
Pre-Amplifier	HP	8447D	2944A09469	12/16/2021	12/15/2022
Attenuator	Mini-Circuit	BW- S10W2+	4	12/14/2021	12/13/2022
Bandreject Filter 2400- 2483.5	EWT	EWT-14- 0166	M1	12/14/2021	12/13/2022
3.2GHz High Pass Filter	WI	WHKX10- 2624-80SS	3	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	EMC 104- SM-SM- 2000	160123	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022

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13.3 量測方法

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

以下為頻譜儀的設定：

頻率	RBW	VBW	Detector
9kHz~150kHz	300Hz	300Hz	Quasi-Peak
150kHz~30MHz	10kHz	10kHz	Quasi-Peak
30MHz~1GHz	100kHz	300kHz	Peak
30MHz~1GHz	120kHz	360kHz	Quasi-Peak
1GHz以上 Maximum Emission Measurement	1MHz	3MHz	Peak
1GHz以上 Duty Cycle ≥ 98% Average Emission Measurement	1MHz	10Hz	Peak
1GHz以上 Duty Cycle < 98% Average Emission Measurement	1MHz	1/T	Peak

13.4 場強計算

- Distance extrapolation = $40 \cdot \log (\text{Required Distance(m)} / \text{Test Distance(m)})$
- Emission level (dBμV/m) = $20 \log \text{Emission level (μV/m)}$
- Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)
Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

註：

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

依裝置使用模式比較 H、E1 和 E2 PLANE 測試值，附上最差模式數據。

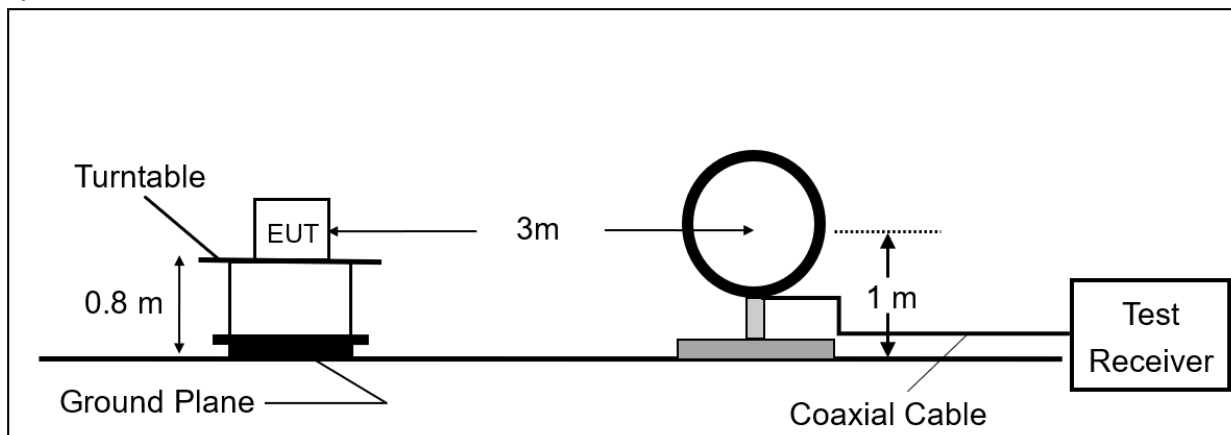
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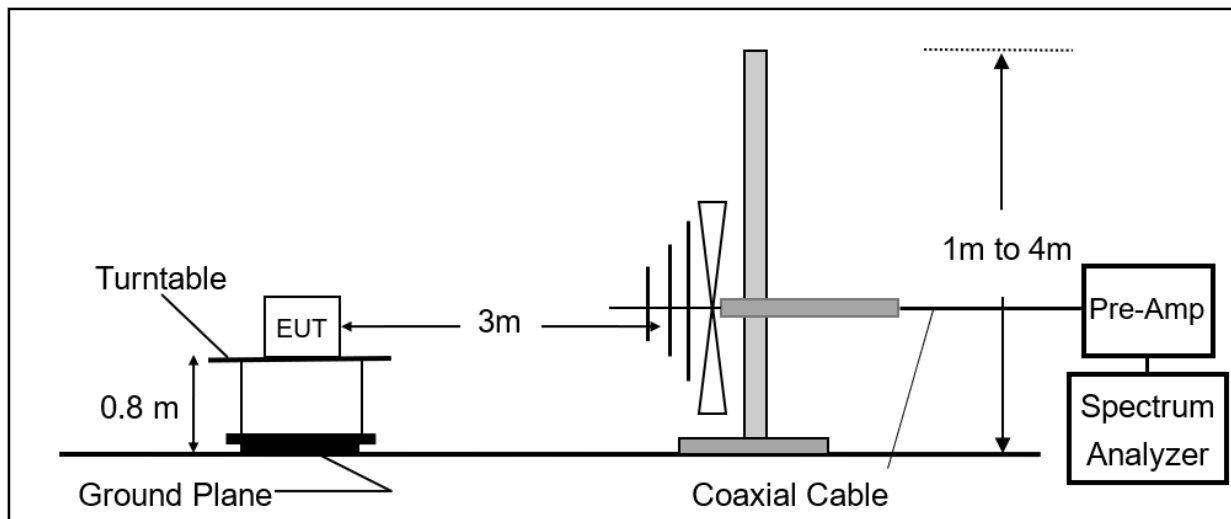
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13.5 測試配置

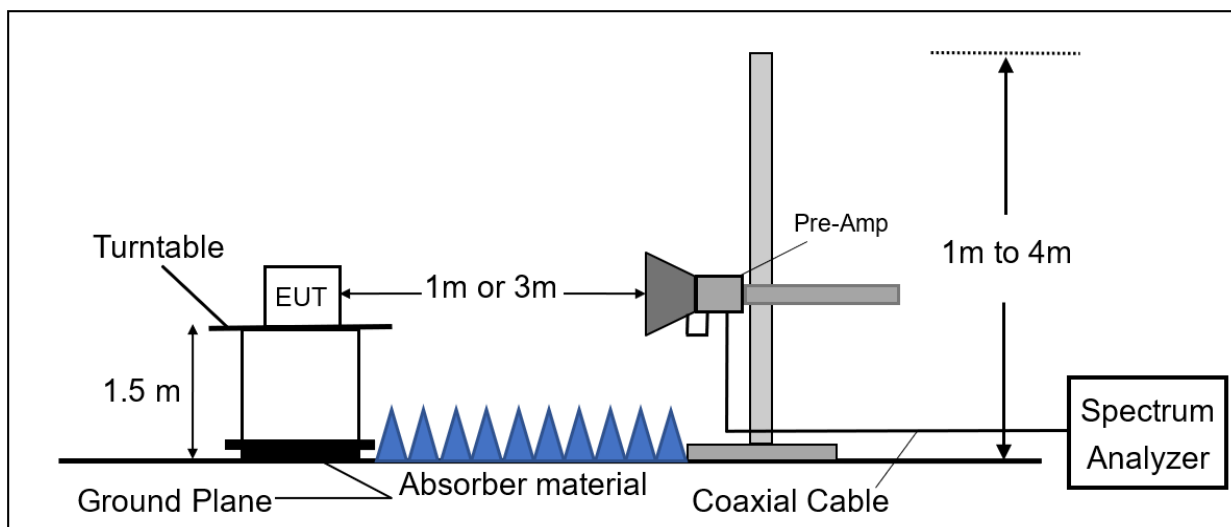
(A) 量測頻率低於 30MHz 以下之測試配置



(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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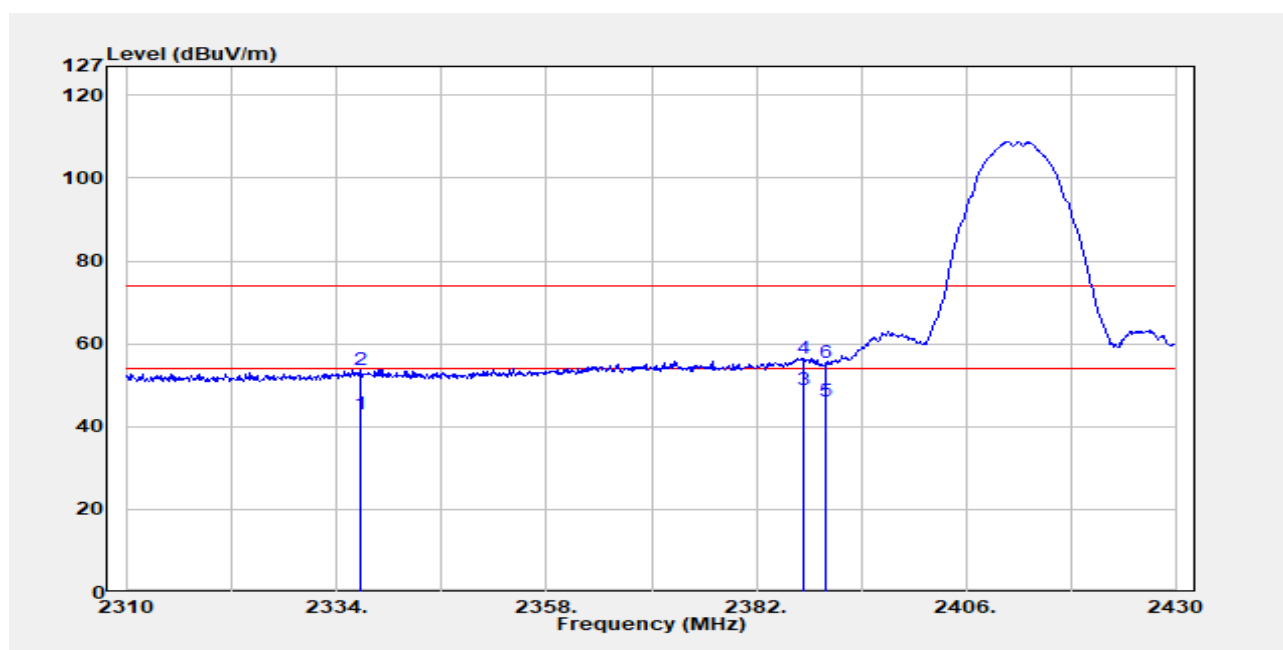
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13.6 量測結果

13.6.1 禁用頻帶輻射

Report Number :ER/2021/C0040
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-29
 Temp./Humi. :22.3/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2336.76	Average	42.95	0.01	42.96	54.00	-11.04
2336.76	Peak	53.67	0.01	53.69	74.00	-20.31
2387.52	Average	48.82	-0.11	48.71	54.00	-5.29
2387.52	Peak	56.72	-0.11	56.61	74.00	-17.39
2390.00	Average	46.25	-0.12	46.13	54.00	-7.87
2390.00	Peak	55.65	-0.12	55.53	74.00	-18.47

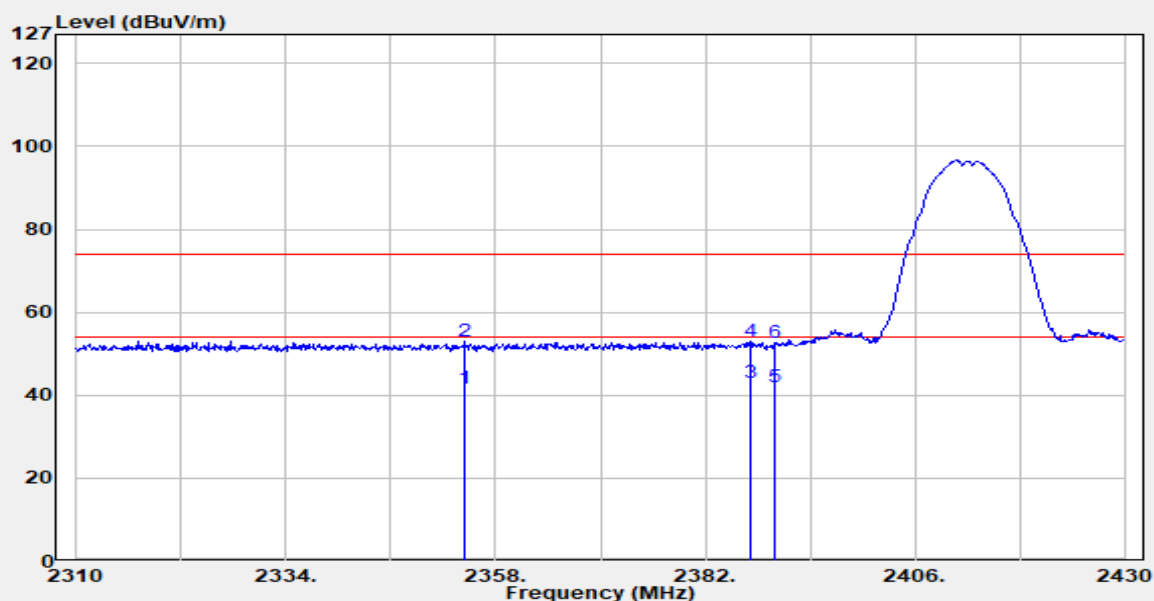
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Report Number :ER/2021/C0040
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2354.52	Average	41.81	0.00	41.81	54.00	-12.19
2354.52	Peak	52.89	0.00	52.90	74.00	-21.10
2387.16	Average	42.96	-0.11	42.85	54.00	-11.15
2387.16	Peak	52.97	-0.11	52.86	74.00	-21.14
2390.00	Average	42.12	-0.12	42.00	54.00	-12.00
2390.00	Peak	52.63	-0.12	52.51	74.00	-21.49

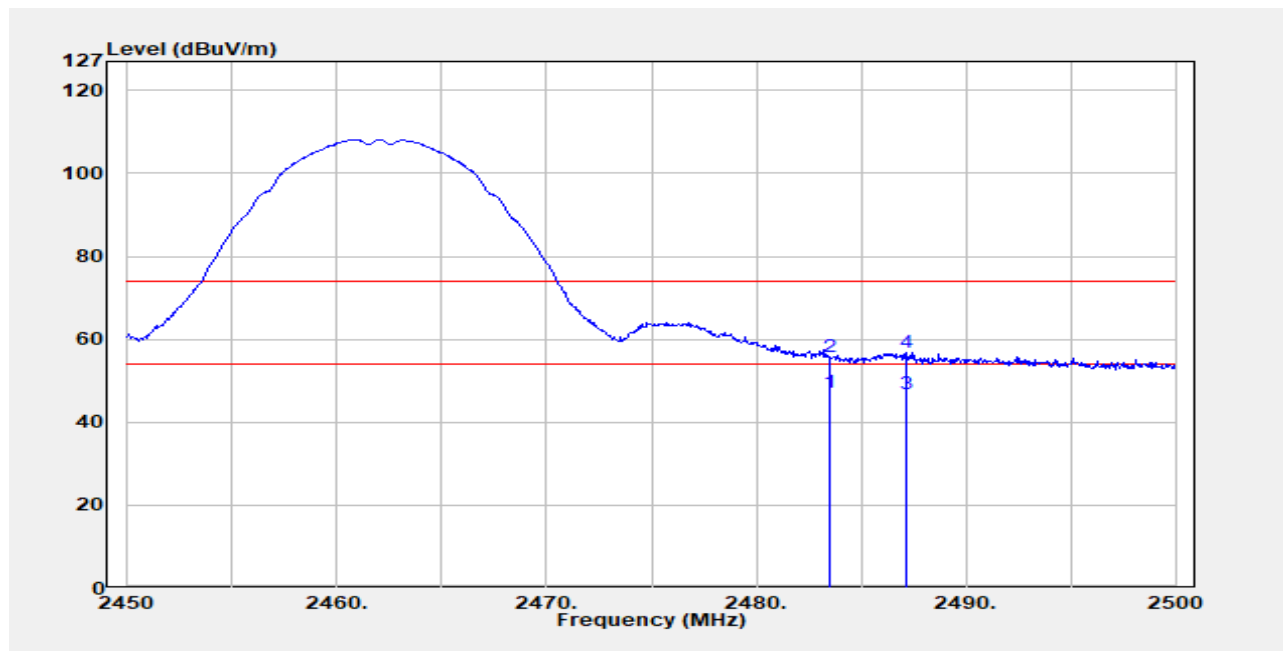
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Report Number :ER/2021/C0040
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Vertical
Engineer :GN Lin



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	47.31	-0.16	47.15	54.00	-6.85
2483.50	Peak	55.87	-0.16	55.70	74.00	-18.30
2487.20	Average	46.92	-0.16	46.76	54.00	-7.24
2487.20	Peak	56.99	-0.16	56.83	74.00	-17.17

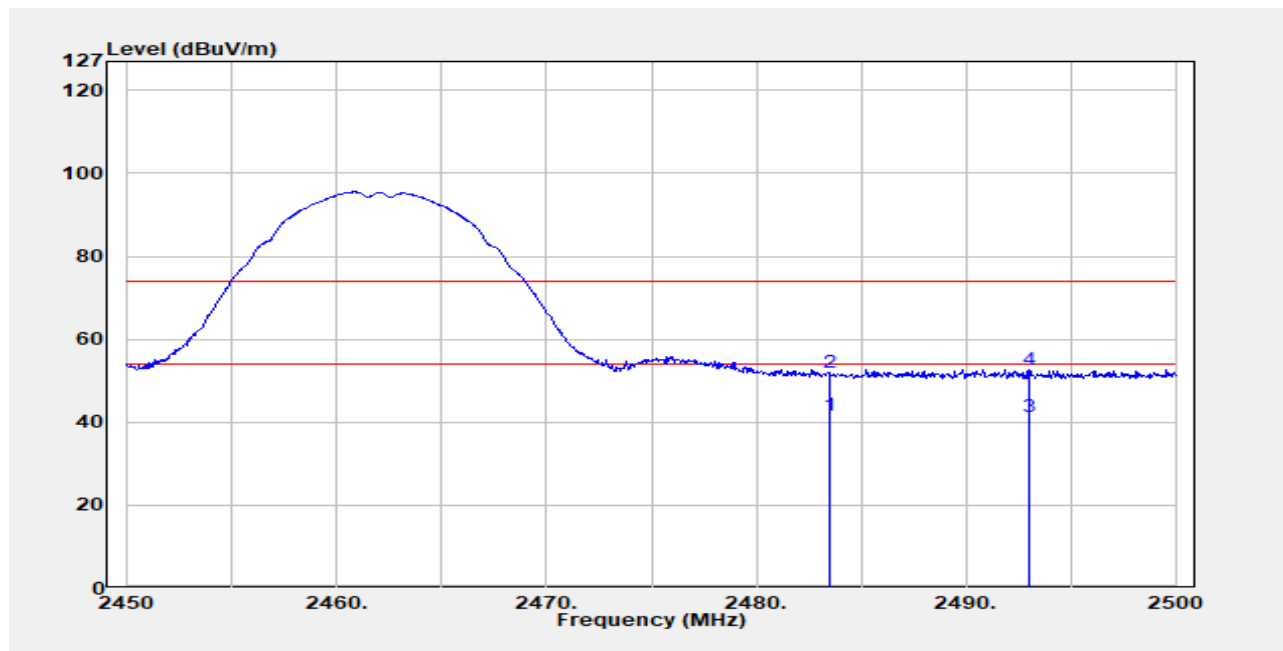
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Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Horizontal
Engineer :GN Lin



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	41.81	-0.16	41.65	54.00	-12.35
2483.50	Peak	52.15	-0.16	51.98	74.00	-22.02
2493.00	Average	41.57	-0.15	41.42	54.00	-12.58
2493.00	Peak	52.93	-0.15	52.78	74.00	-21.22

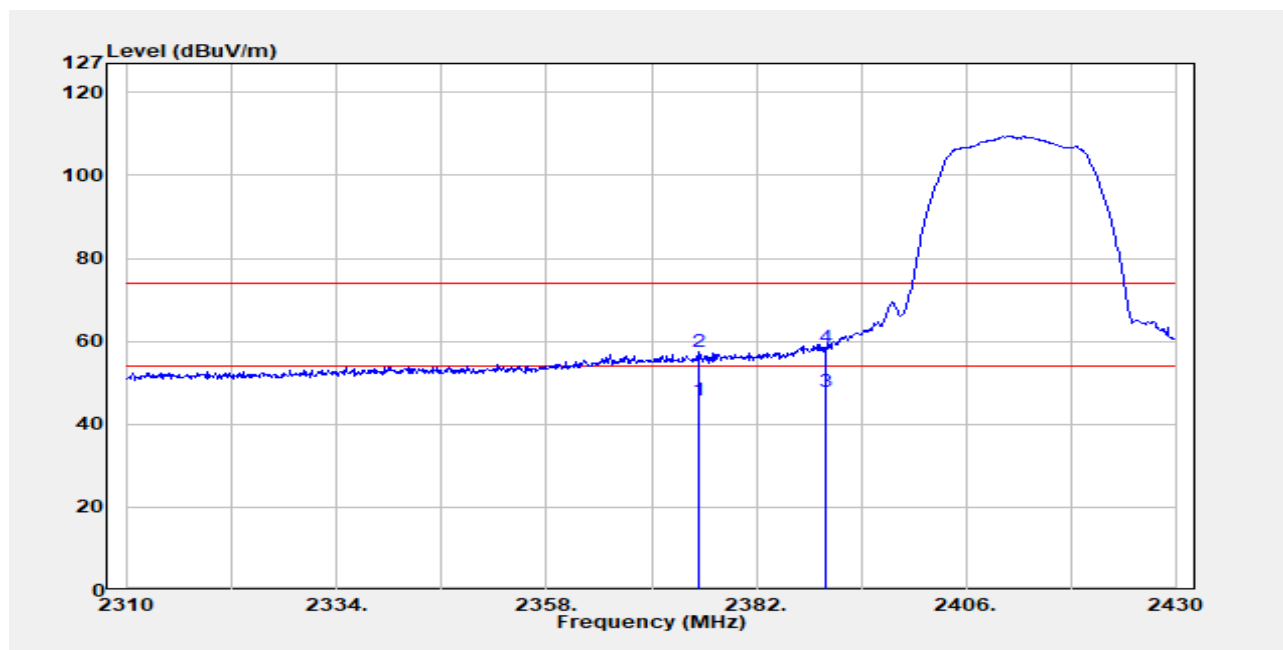
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2375.40	Average	45.68	-0.07	45.61	54.00	-8.39
2375.40	Peak	57.61	-0.07	57.54	74.00	-16.46
2390.00	Average	47.81	-0.12	47.69	54.00	-6.31
2390.00	Peak	58.69	-0.12	58.57	74.00	-15.43

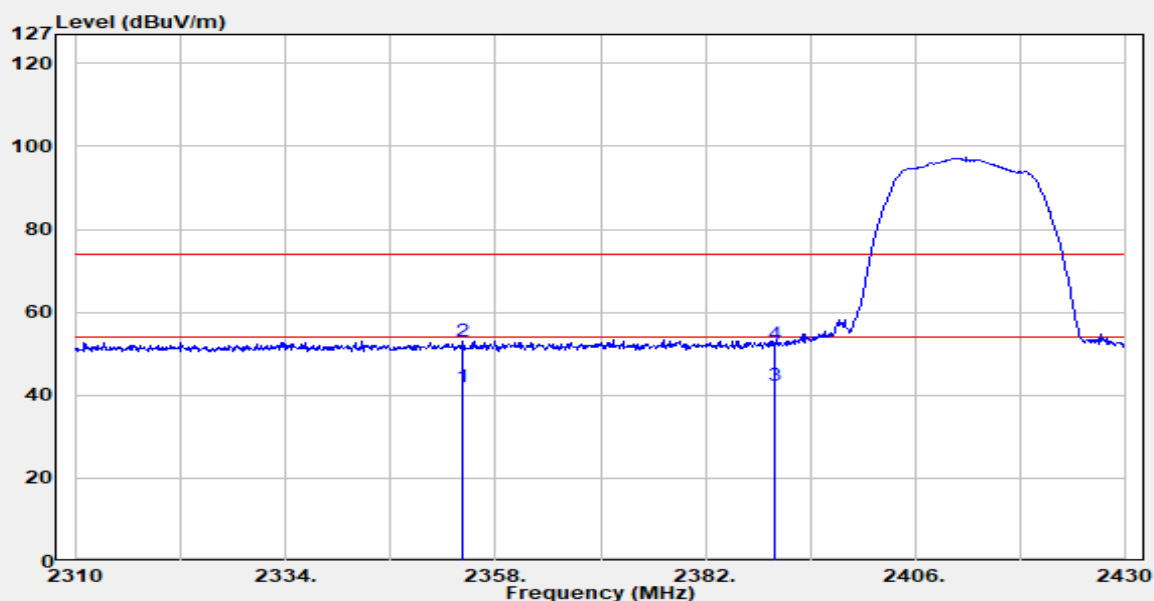
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Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2354.28	Average	41.85	0.01	41.86	54.00	-12.14
2354.28	Peak	53.07	0.01	53.08	74.00	-20.92
2390.00	Average	42.40	-0.12	42.28	54.00	-11.72
2390.00	Peak	52.39	-0.12	52.27	74.00	-21.73

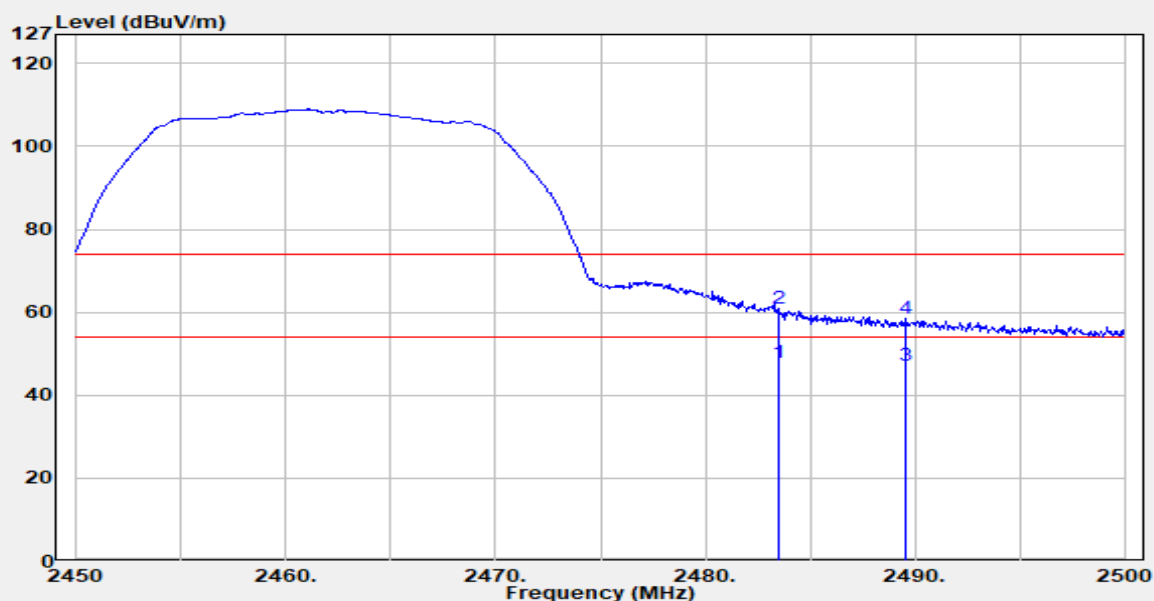
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Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Vertical
Engineer :GN Lin



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	48.16	-0.16	48.00	54.00	-6.00
2483.50	Peak	61.06	-0.16	60.89	74.00	-13.11
2489.60	Average	47.17	-0.16	47.01	54.00	-6.99
2489.60	Peak	58.58	-0.16	58.42	74.00	-15.58

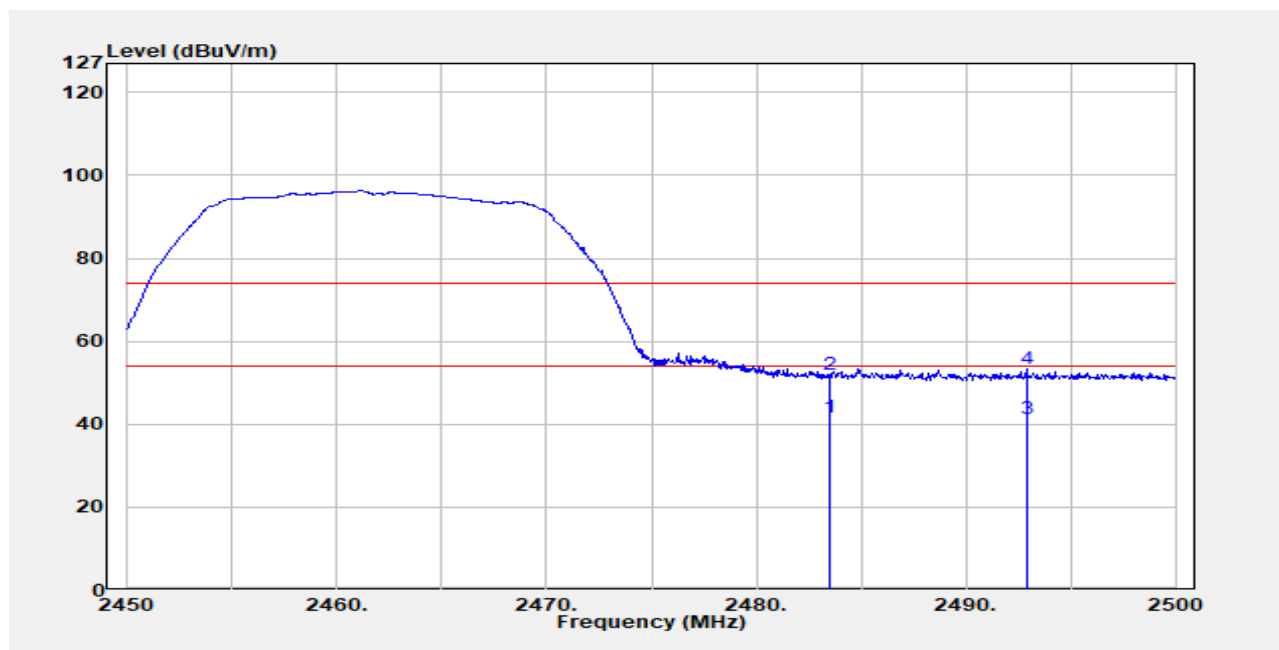
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Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Horizontal
Engineer :GN Lin



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	41.85	-0.16	41.69	54.00	-12.31
2483.50	Peak	52.30	-0.16	52.14	74.00	-21.86
2492.90	Average	41.59	-0.15	41.44	54.00	-12.56
2492.90	Peak	53.45	-0.15	53.29	74.00	-20.71

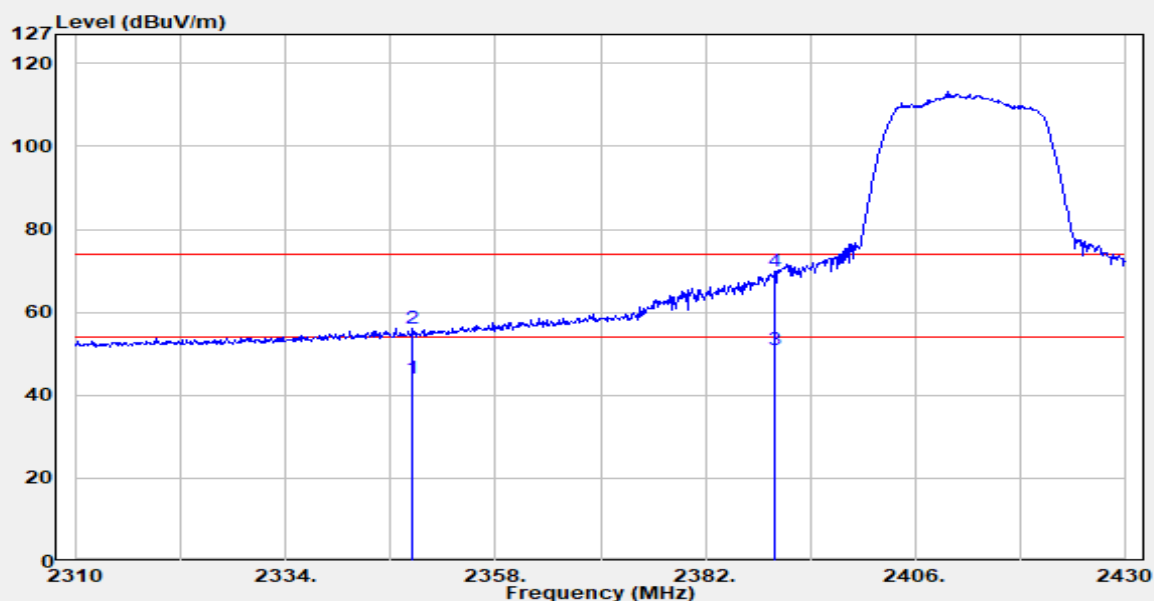
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Report Number :ER/2021/C0040
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2348.52	Average	44.18	0.02	44.20	54.00	-9.80
2348.52	Peak	56.20	0.02	56.22	74.00	-17.78
2390.00	Average	51.17	-0.12	51.05	54.00	-2.95
2390.00	Peak	69.92	-0.12	69.80	74.00	-4.20

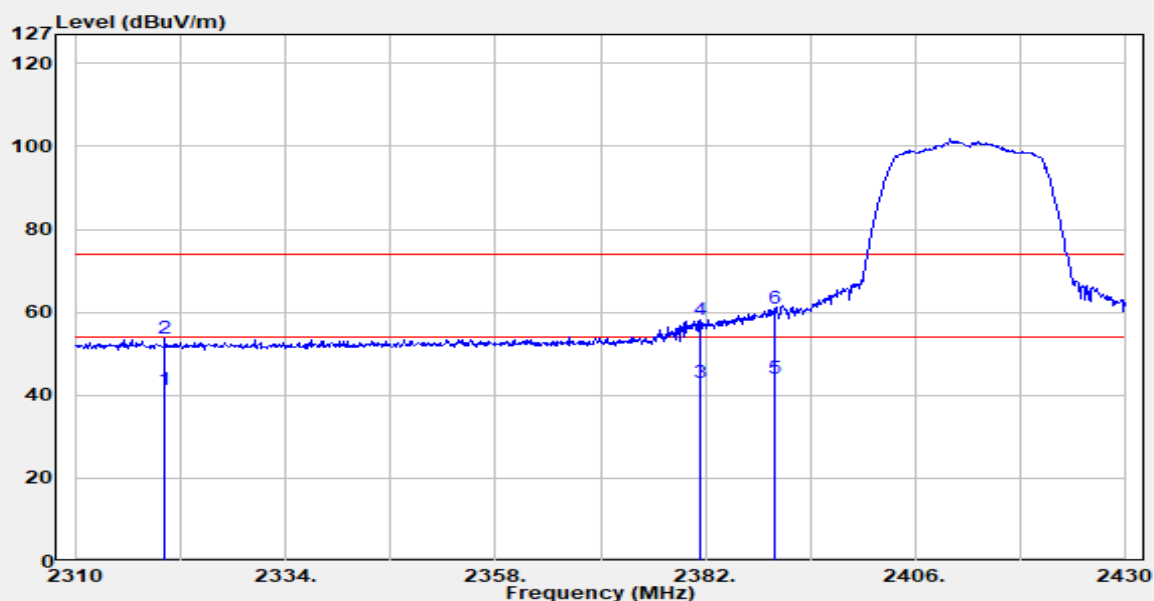
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Report Number :ER/2021/C0040
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2320.08	Average	41.46	0.00	41.46	54.00	-12.54
2320.08	Peak	53.69	0.00	53.70	74.00	-20.30
2381.40	Average	43.28	-0.09	43.19	54.00	-10.81
2381.40	Peak	58.42	-0.09	58.33	74.00	-15.67
2390.00	Average	44.04	-0.12	43.92	54.00	-10.08
2390.00	Peak	60.91	-0.12	60.79	74.00	-13.21

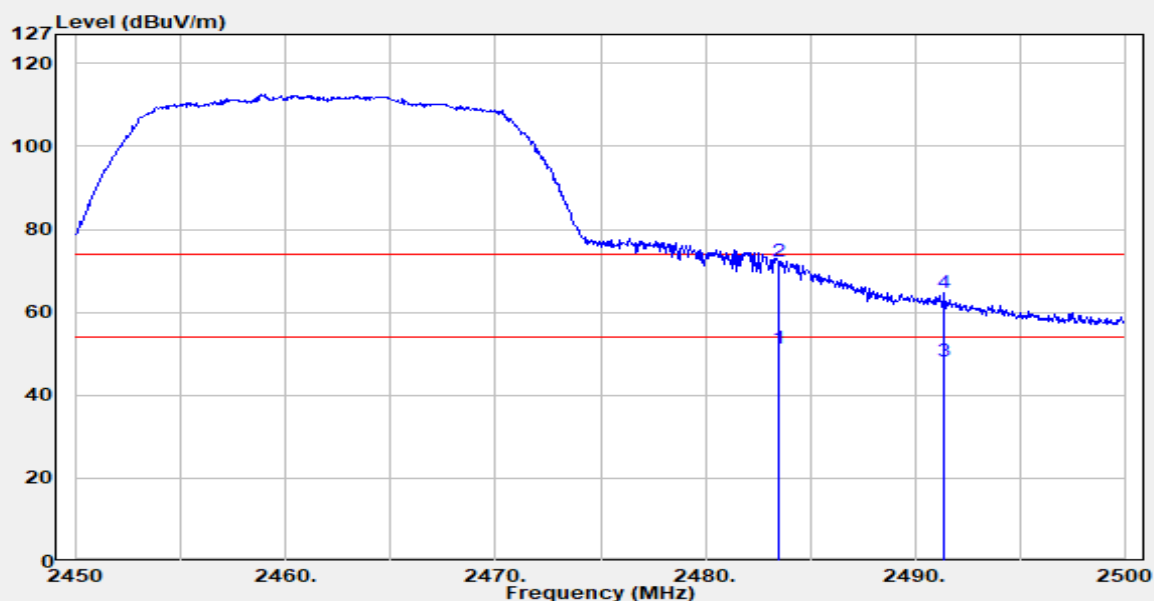
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Report Number :ER/2021/C0040
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Vertical
Engineer :GN Lin



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	51.45	-0.16	51.29	54.00	-2.71
2483.50	Peak	72.53	-0.16	72.37	74.00	-1.63
2491.40	Average	48.22	-0.15	48.07	54.00	-5.93
2491.40	Peak	64.85	-0.15	64.69	74.00	-9.31

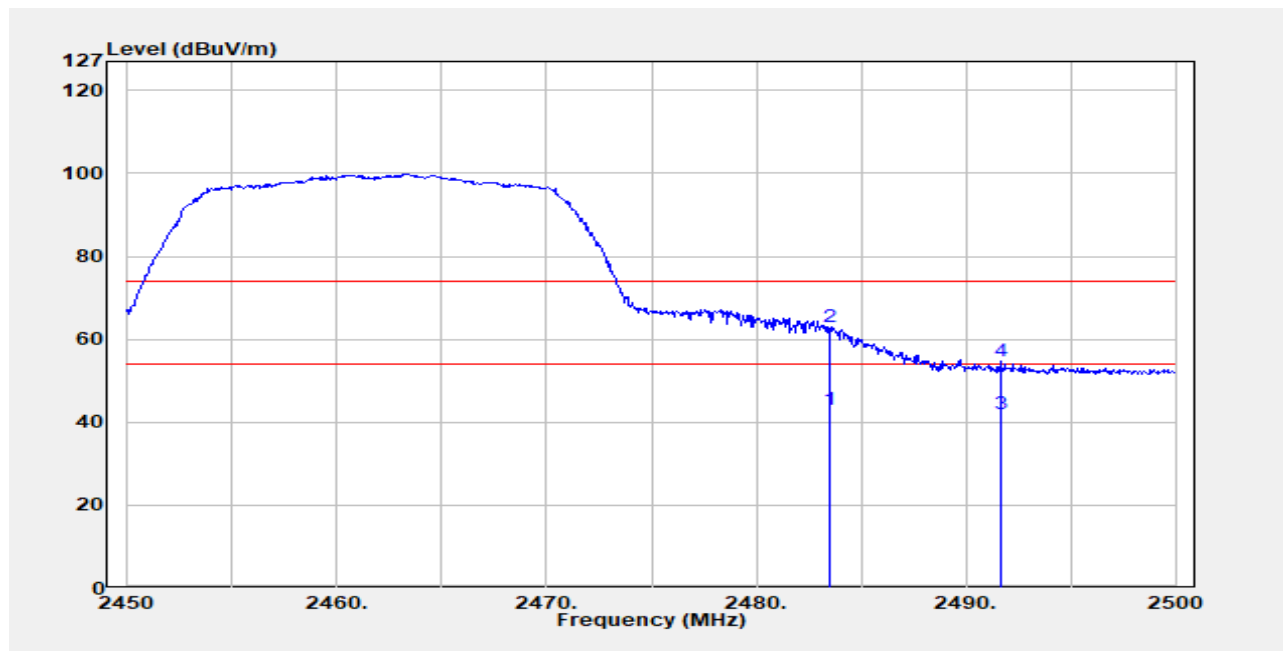
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Report Number :ER/2021/C0040
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :Horizontal
Engineer :GN Lin



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	43.27	-0.16	43.11	54.00	-10.89
2483.50	Peak	63.16	-0.16	63.00	74.00	-11.00
2491.65	Average	42.07	-0.15	41.92	54.00	-12.08
2491.65	Peak	54.76	-0.15	54.61	74.00	-19.39

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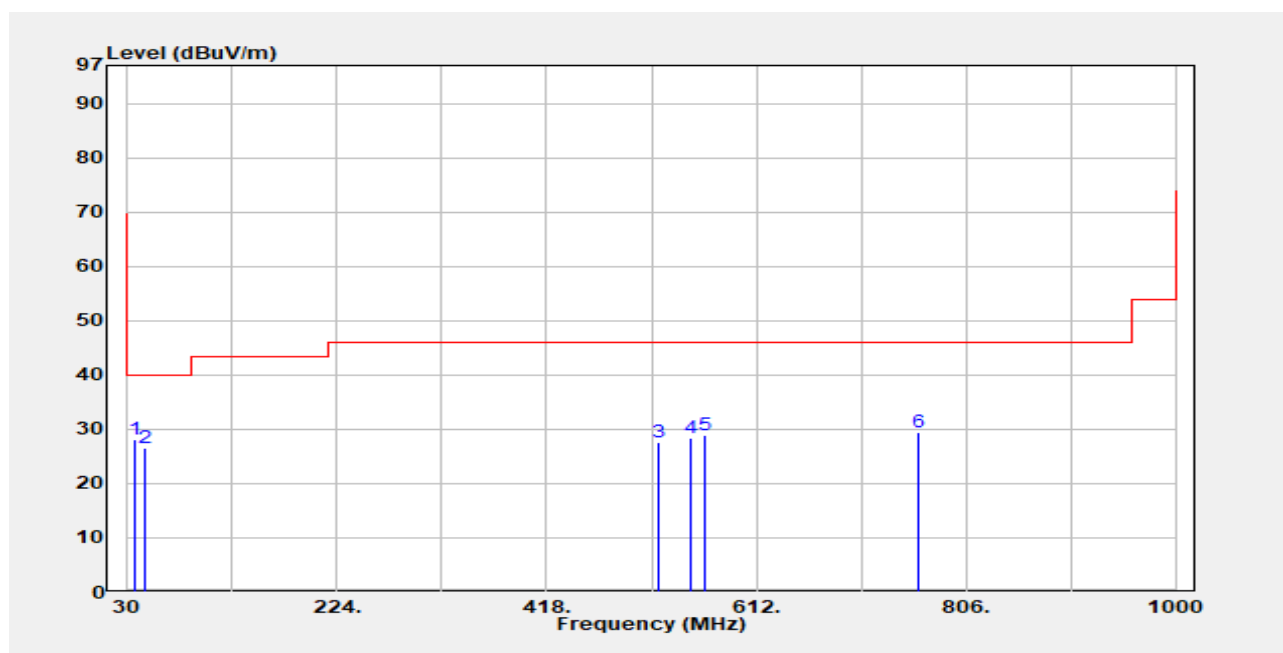
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13.6.2 發射機場強輻射

Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
36.47	Peak	36.48	-8.28	28.20	40.00	-11.80
46.17	Peak	40.34	-13.74	26.60	40.00	-13.40
521.47	Peak	33.05	-5.40	27.65	46.00	-18.35
552.18	Peak	32.15	-3.78	28.38	46.00	-17.62
565.12	Peak	33.55	-4.55	29.00	46.00	-17.00
762.35	Peak	31.48	-2.11	29.37	46.00	-16.63

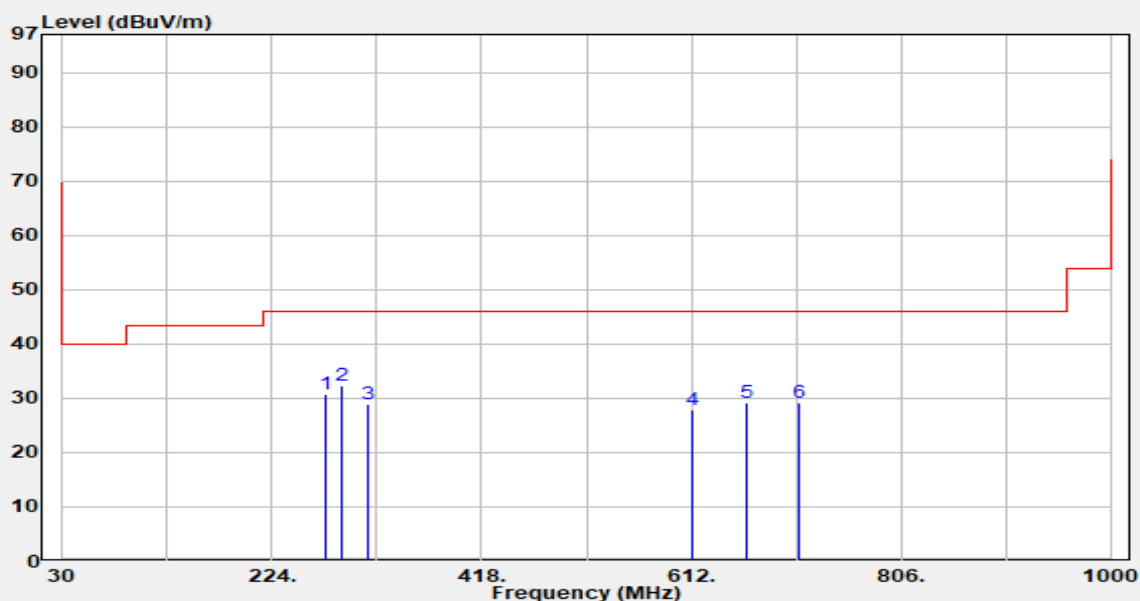
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
274.12	Peak	40.41	-9.74	30.67	46.00	-15.33
288.67	Peak	41.76	-9.46	32.30	46.00	-13.70
312.92	Peak	38.07	-9.12	28.95	46.00	-17.05
613.62	Peak	31.92	-4.16	27.76	46.00	-18.24
663.73	Peak	32.66	-3.41	29.25	46.00	-16.75
712.23	Peak	32.83	-3.69	29.14	46.00	-16.86

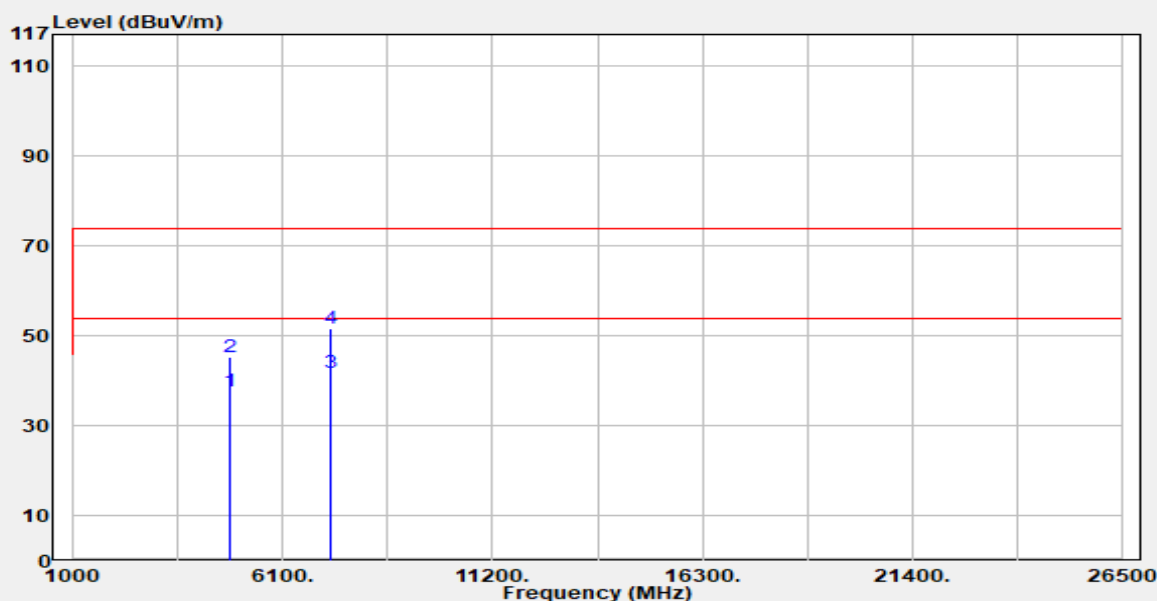
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Report Number :ER/2021/C0040
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	30.75	7.09	37.84	54.00	-16.16
4824.00	Peak	38.31	7.09	45.40	74.00	-28.60
7236.00	Average	26.39	15.32	41.71	54.00	-12.29
7236.00	Peak	36.43	15.32	51.76	74.00	-22.24

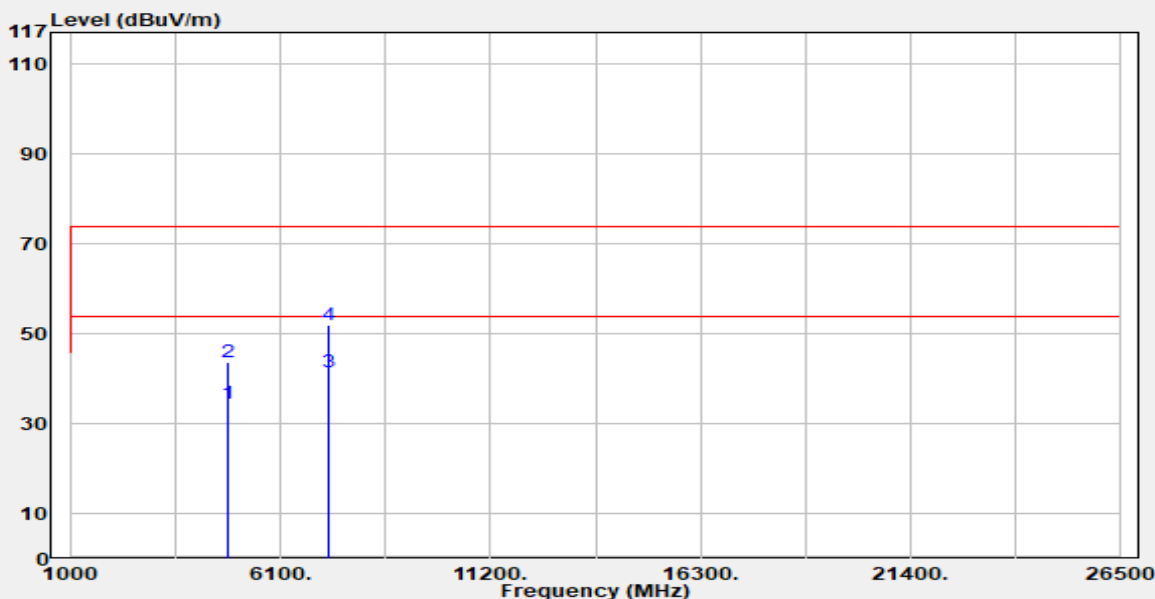
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Report Number :ER/2021/C0040
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.54	7.09	34.63	54.00	-19.37
4824.00	Peak	36.58	7.09	43.67	74.00	-30.33
7236.00	Average	26.30	15.32	41.62	54.00	-12.38
7236.00	Peak	36.60	15.32	51.93	74.00	-22.07

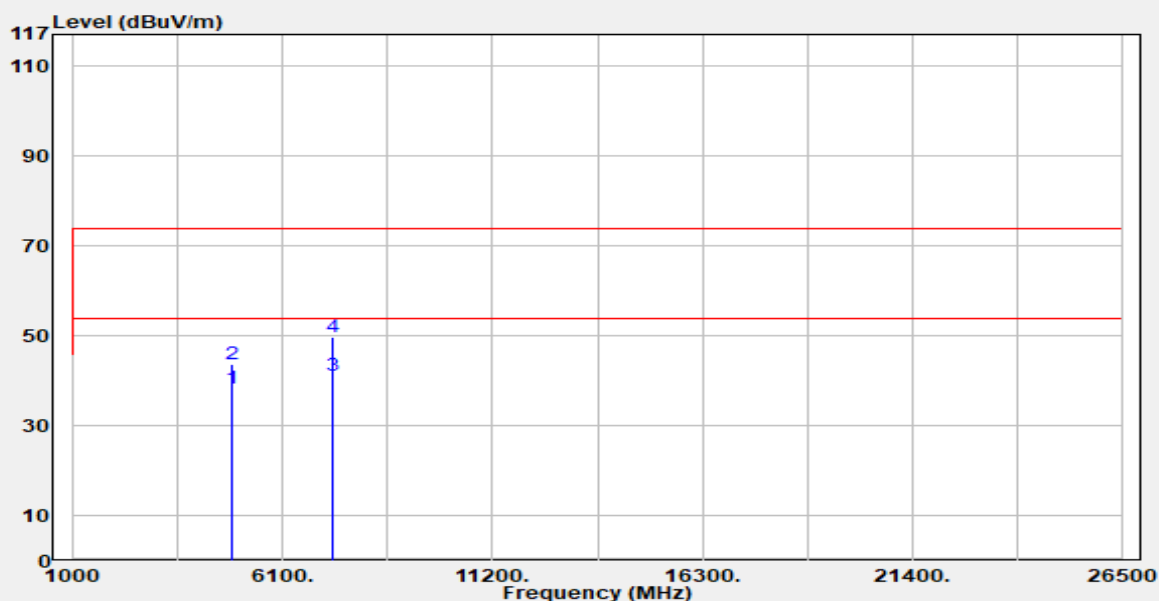
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Report Number :ER/2021/C0040
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	31.42	7.07	38.49	54.00	-15.51
4874.00	Peak	36.77	7.07	43.84	74.00	-30.16
7311.00	Average	26.25	14.90	41.15	54.00	-12.85
7311.00	Peak	34.96	14.90	49.86	74.00	-24.14

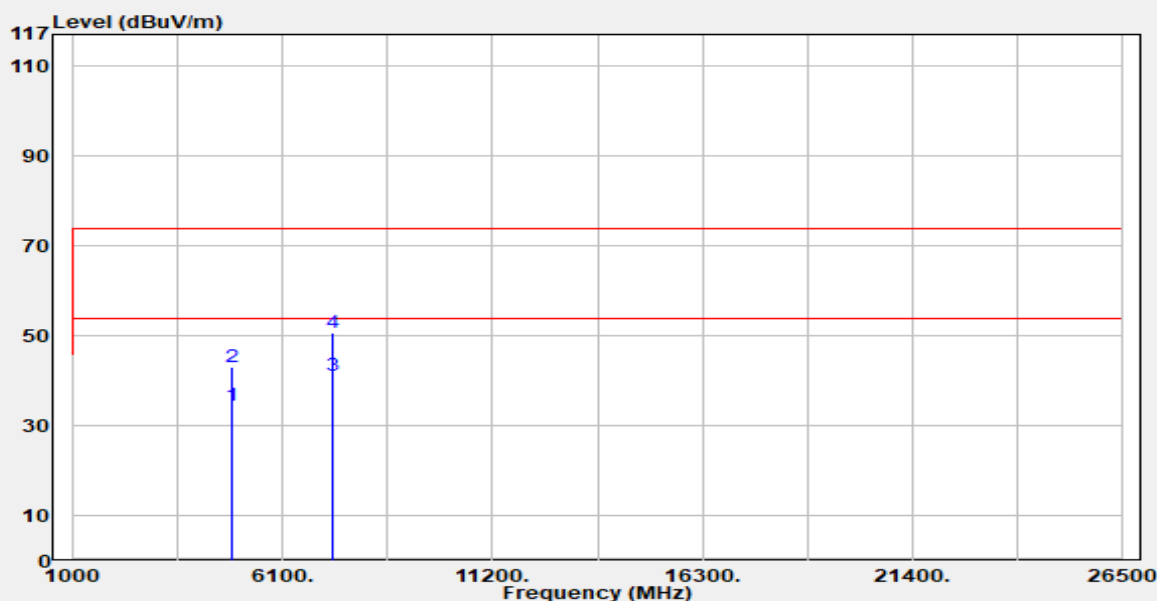
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Report Number :ER/2021/C0040
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.39	7.07	34.46	54.00	-19.54
4874.00	Peak	36.09	7.07	43.16	74.00	-30.84
7311.00	Average	26.38	14.90	41.28	54.00	-12.72
7311.00	Peak	35.94	14.90	50.84	74.00	-23.16

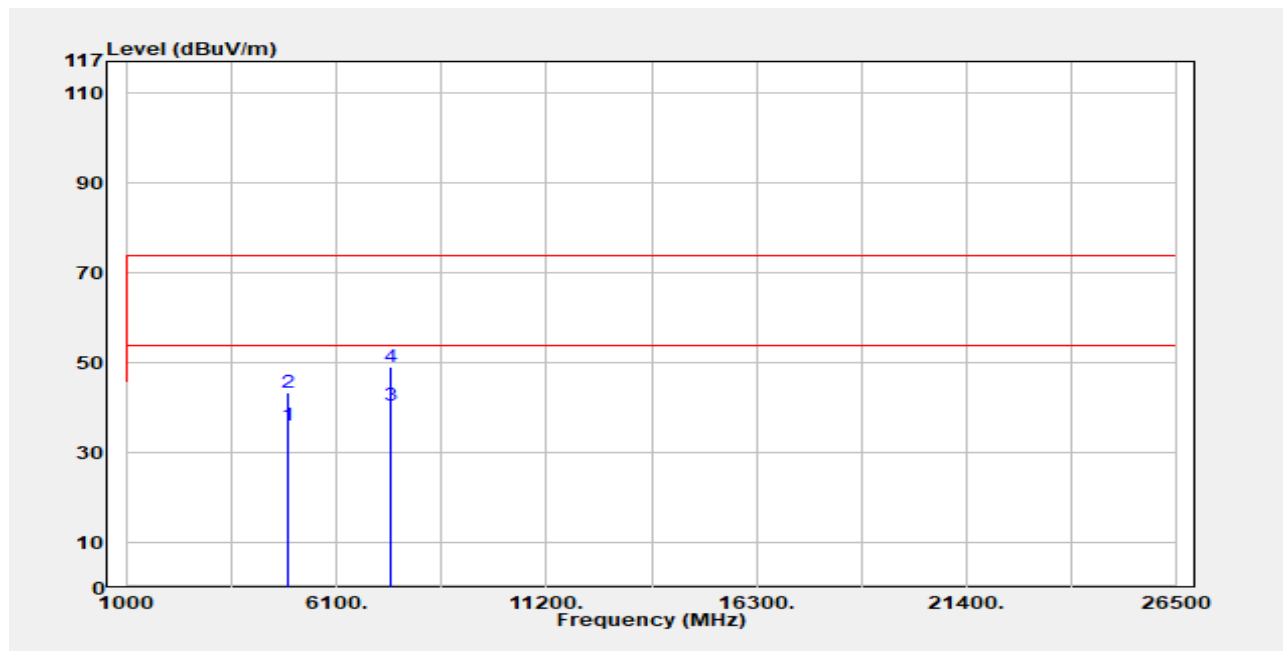
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Report Number :ER/2021/C0040
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	28.99	7.20	36.19	54.00	-17.81
4924.00	Peak	36.25	7.20	43.45	74.00	-30.55
7386.00	Average	26.15	14.45	40.60	54.00	-13.40
7386.00	Peak	34.64	14.45	49.08	74.00	-24.92

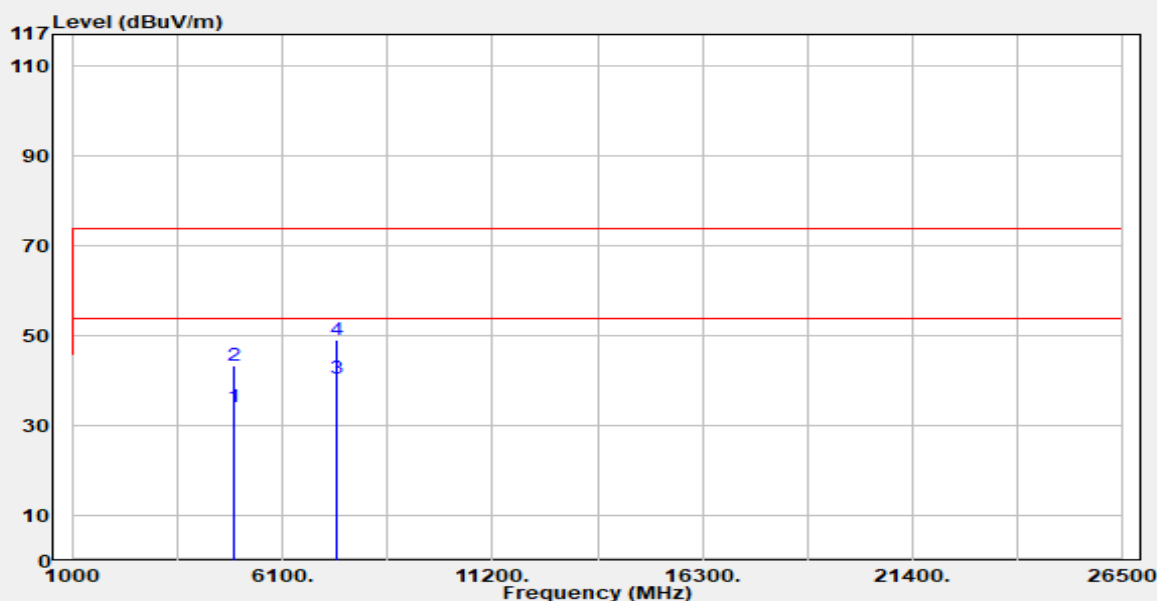
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Report Number :ER/2021/C0040
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	26.89	7.20	34.09	54.00	-19.91
4924.00	Peak	36.30	7.20	43.50	74.00	-30.50
7386.00	Average	26.05	14.45	40.50	54.00	-13.50
7386.00	Peak	34.85	14.45	49.30	74.00	-24.70

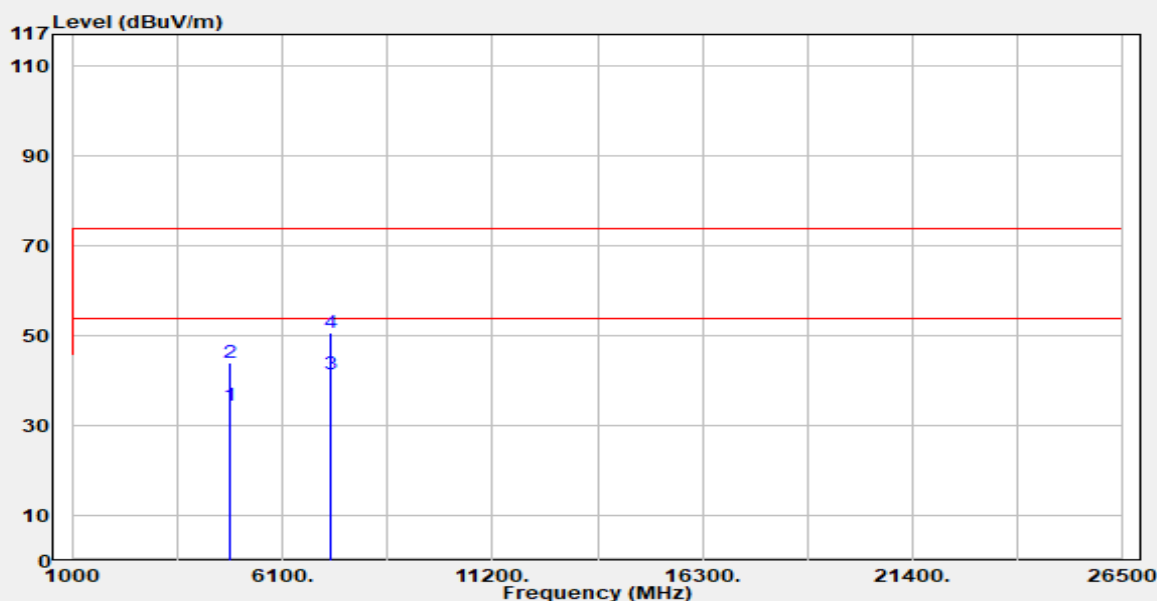
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.51	7.09	34.60	54.00	-19.40
4824.00	Peak	36.89	7.09	43.98	74.00	-30.02
7236.00	Average	26.36	15.32	41.68	54.00	-12.32
7236.00	Peak	35.54	15.32	50.86	74.00	-23.14

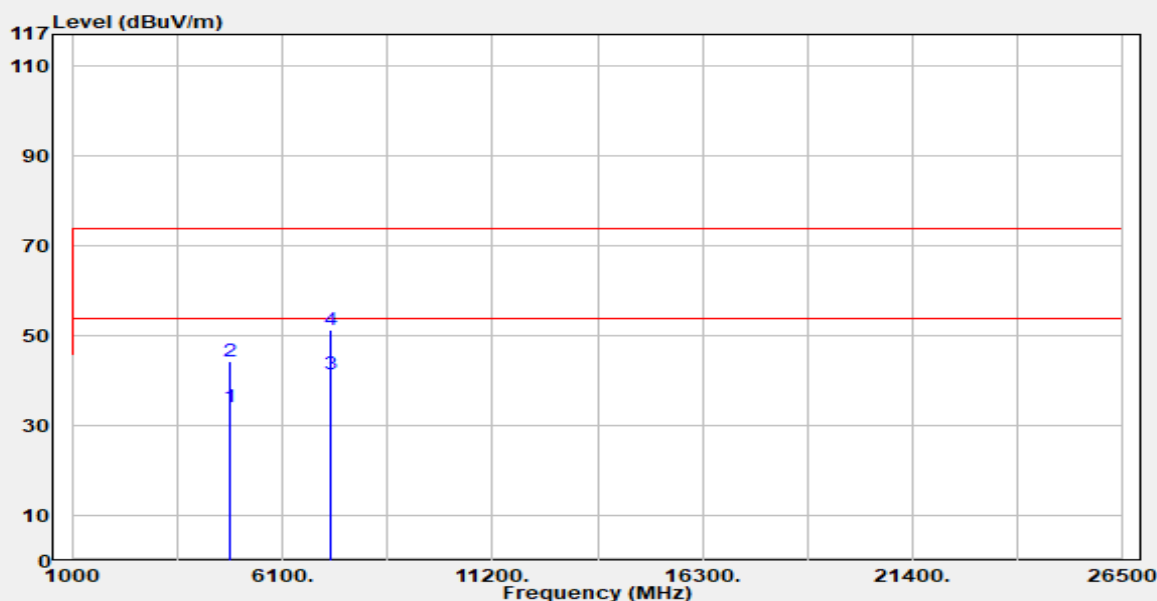
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.11	7.09	34.20	54.00	-19.80
4824.00	Peak	37.38	7.09	44.47	74.00	-29.53
7236.00	Average	26.37	15.32	41.69	54.00	-12.31
7236.00	Peak	36.05	15.32	51.37	74.00	-22.63

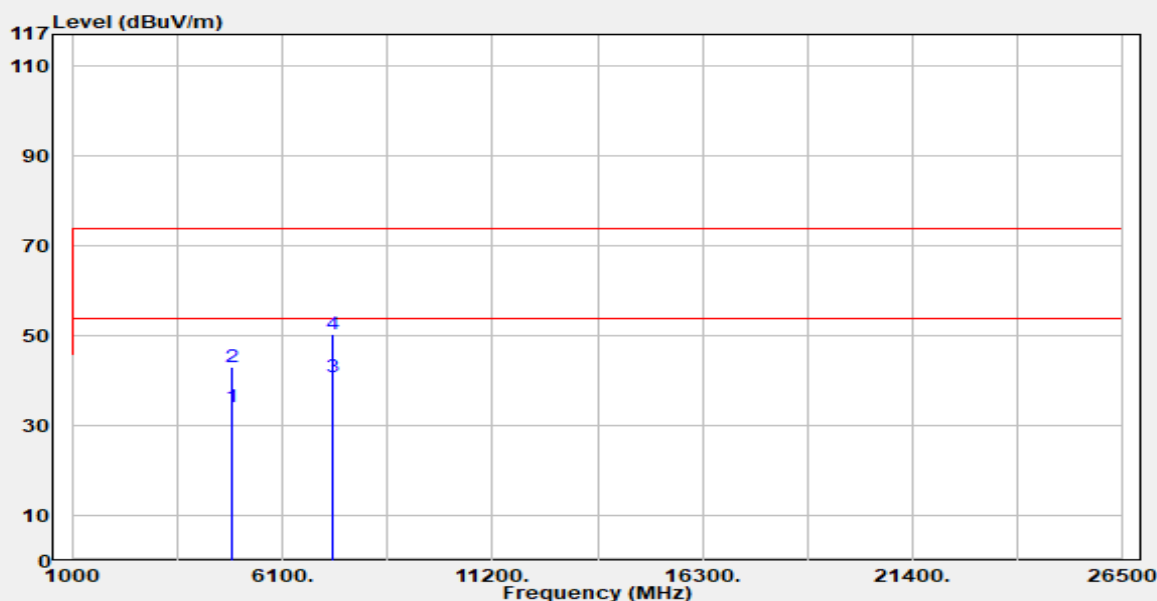
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.31	7.07	34.38	54.00	-19.62
4874.00	Peak	35.99	7.07	43.06	74.00	-30.94
7311.00	Average	26.08	14.90	40.98	54.00	-13.02
7311.00	Peak	35.56	14.90	50.47	74.00	-23.53

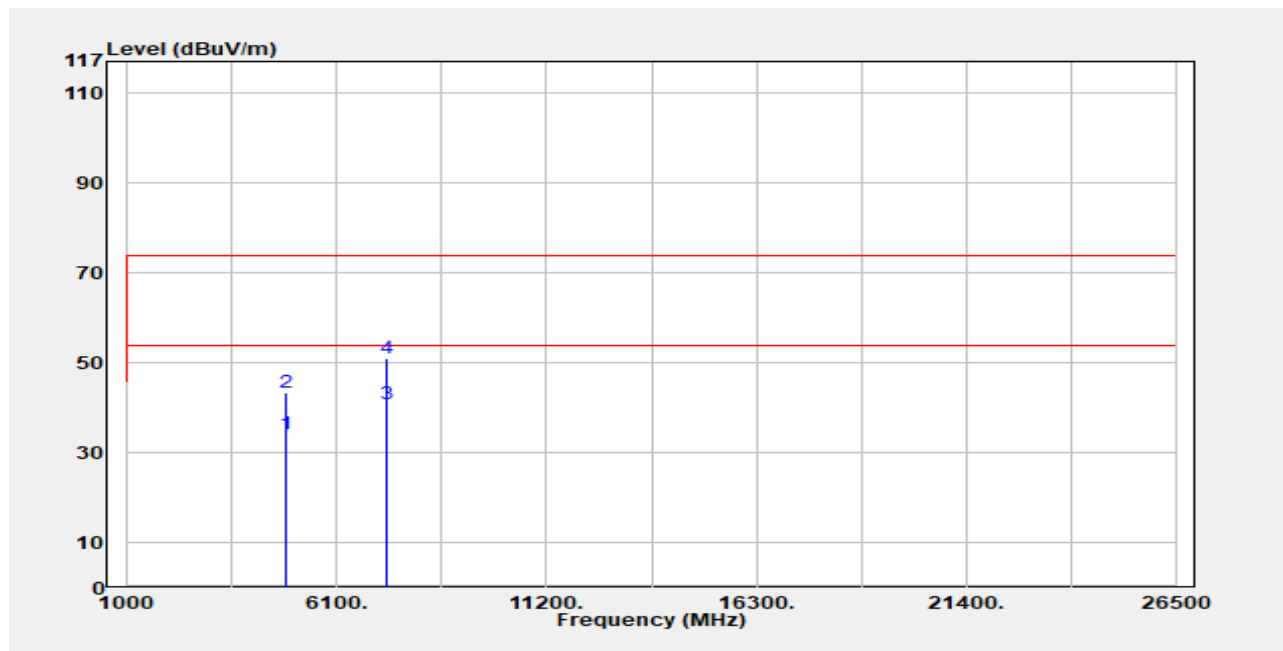
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.12	7.07	34.19	54.00	-19.81
4874.00	Peak	36.22	7.07	43.29	74.00	-30.71
7311.00	Average	26.06	14.90	40.96	54.00	-13.04
7311.00	Peak	36.05	14.90	50.95	74.00	-23.05

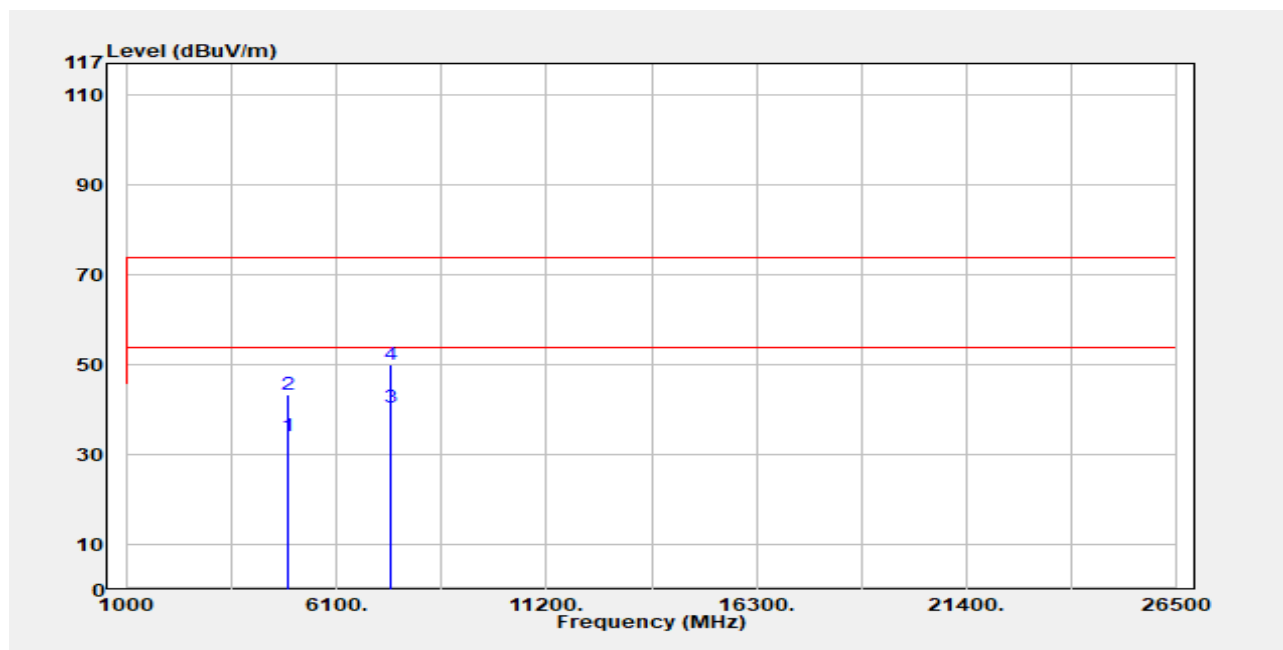
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	26.92	7.20	34.12	54.00	-19.88
4924.00	Peak	36.30	7.20	43.50	74.00	-30.50
7386.00	Average	26.05	14.45	40.50	54.00	-13.50
7386.00	Peak	35.76	14.45	50.21	74.00	-23.79

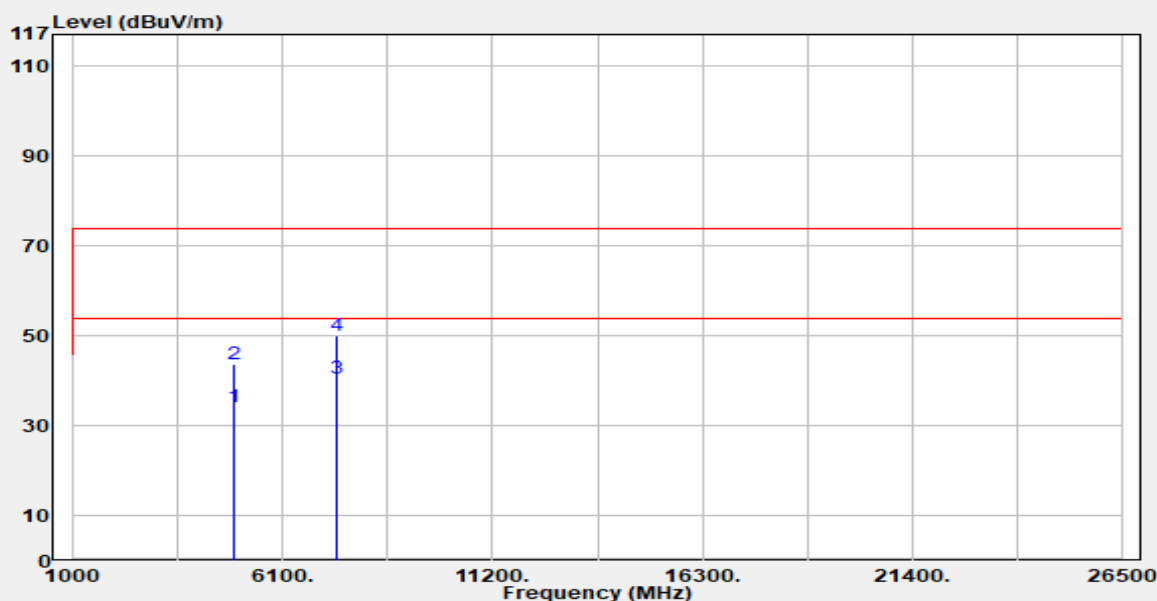
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	26.89	7.20	34.09	54.00	-19.91
4924.00	Peak	36.59	7.20	43.79	74.00	-30.21
7386.00	Average	26.07	14.45	40.52	54.00	-13.48
7386.00	Peak	35.70	14.45	50.14	74.00	-23.86

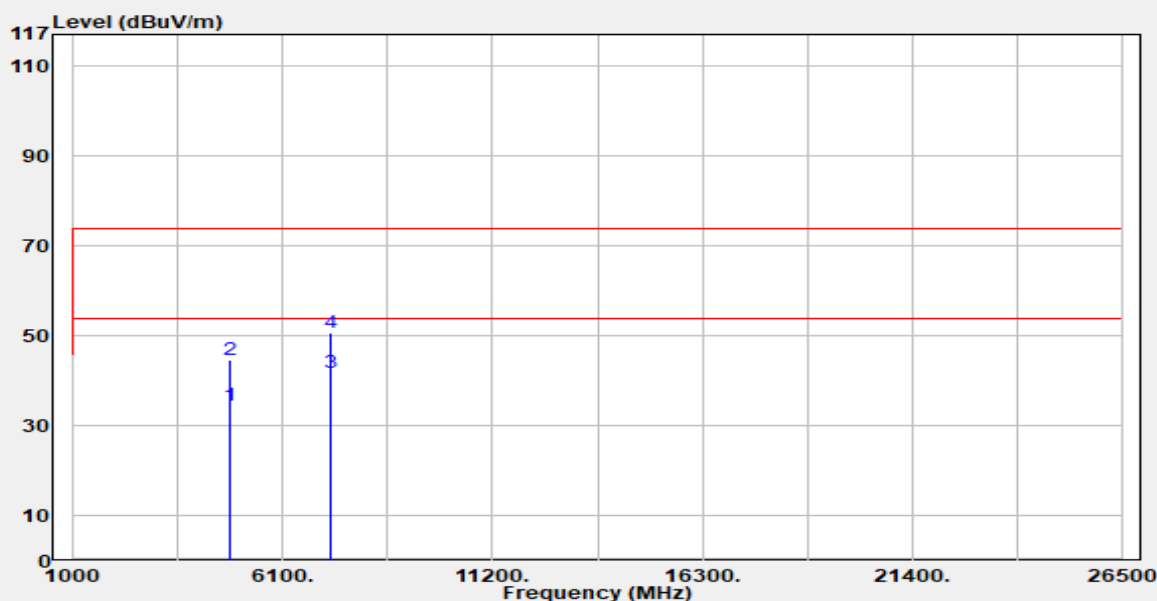
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Report Number :ER/2021/C0040
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.33	7.09	34.42	54.00	-19.58
4824.00	Peak	37.47	7.09	44.56	74.00	-29.44
7236.00	Average	26.45	15.32	41.77	54.00	-12.23
7236.00	Peak	35.31	15.32	50.63	74.00	-23.37

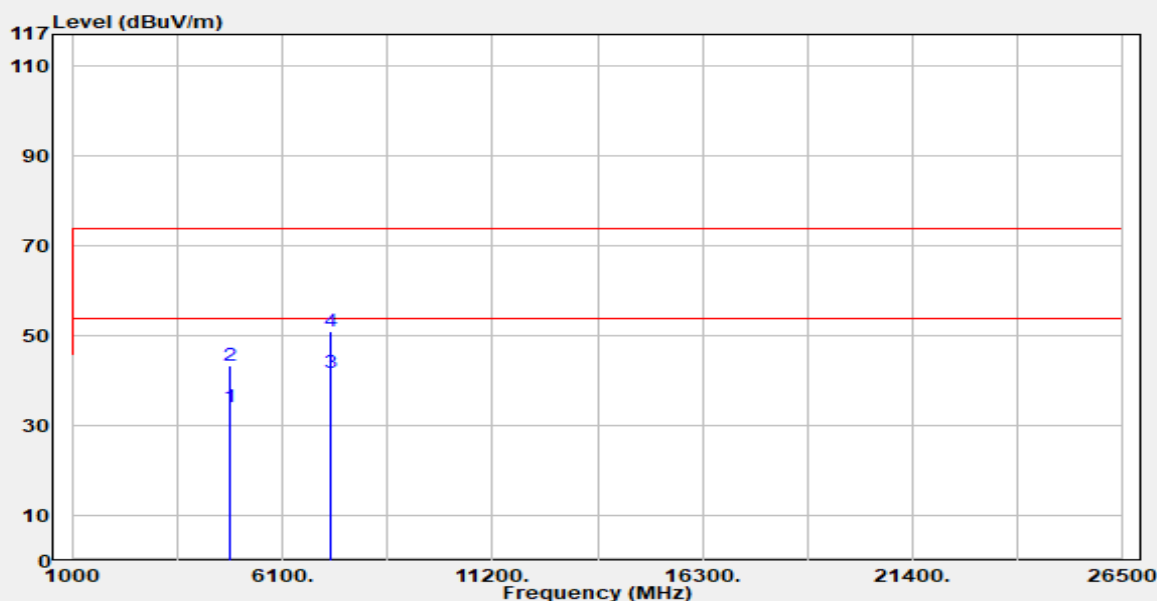
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Report Number :ER/2021/C0040
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.09	7.09	34.18	54.00	-19.82
4824.00	Peak	36.37	7.09	43.46	74.00	-30.54
7236.00	Average	26.43	15.32	41.75	54.00	-12.25
7236.00	Peak	35.60	15.32	50.92	74.00	-23.08

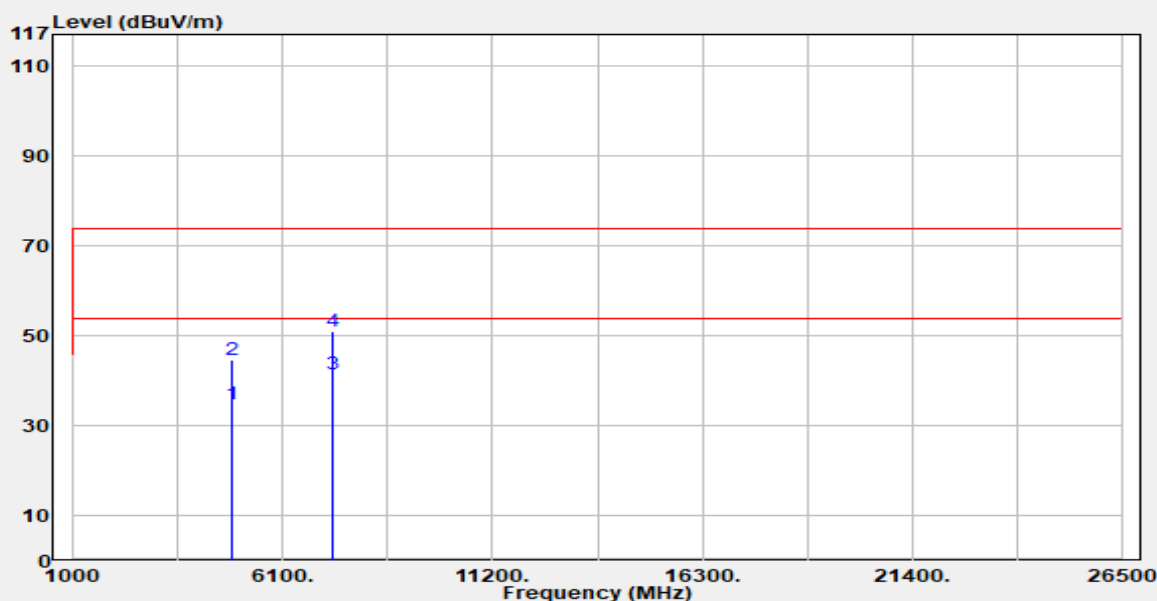
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Report Number :ER/2021/C0040
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.71	7.07	34.78	54.00	-19.22
4874.00	Peak	37.50	7.07	44.56	74.00	-29.44
7311.00	Average	26.55	14.90	41.45	54.00	-12.55
7311.00	Peak	36.14	14.90	51.04	74.00	-22.96

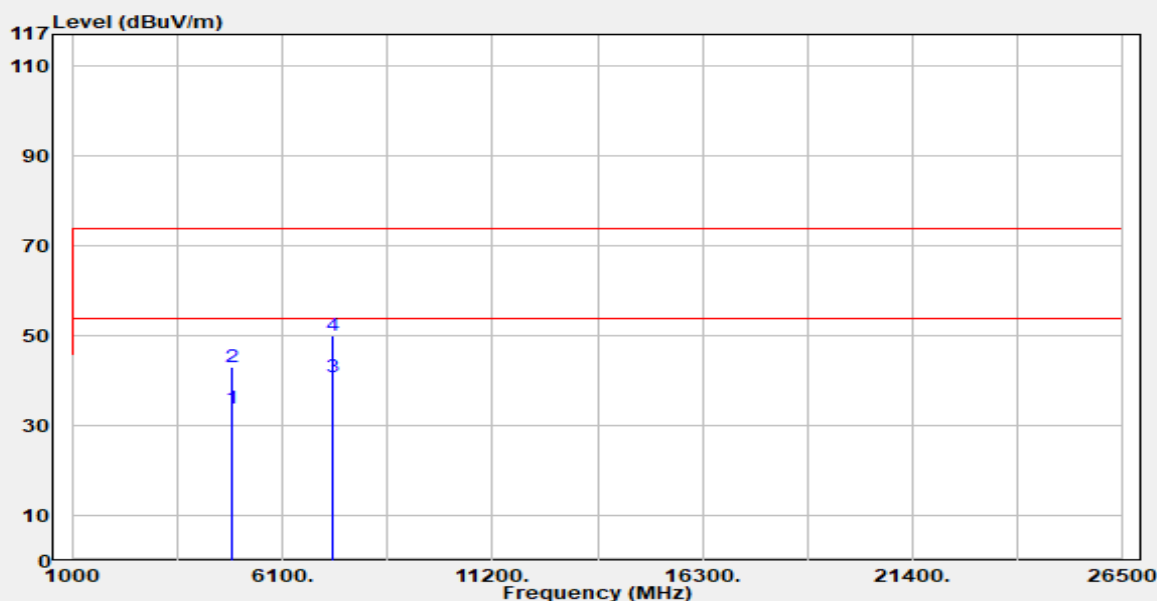
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Report Number :ER/2021/C0040
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	26.91	7.07	33.98	54.00	-20.02
4874.00	Peak	35.97	7.07	43.04	74.00	-30.96
7311.00	Average	26.11	14.90	41.01	54.00	-12.99
7311.00	Peak	35.35	14.90	50.25	74.00	-23.75

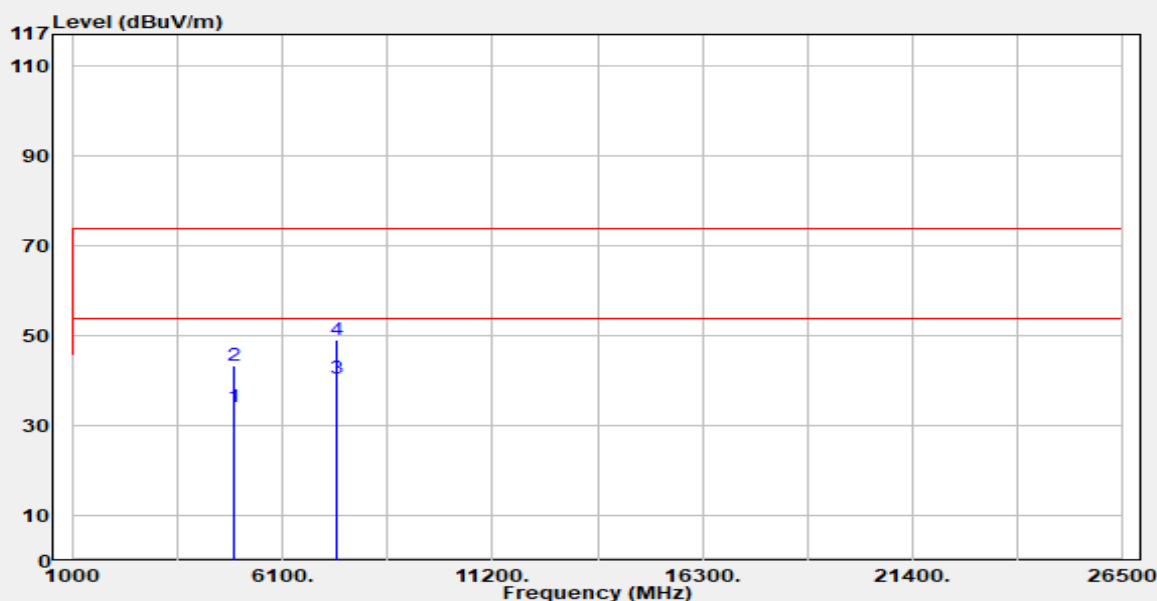
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Report Number :ER/2021/C0040
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	27.02	7.20	34.22	54.00	-19.78
4924.00	Peak	36.09	7.20	43.29	74.00	-30.71
7386.00	Average	26.09	14.45	40.54	54.00	-13.46
7386.00	Peak	34.83	14.45	49.27	74.00	-24.73

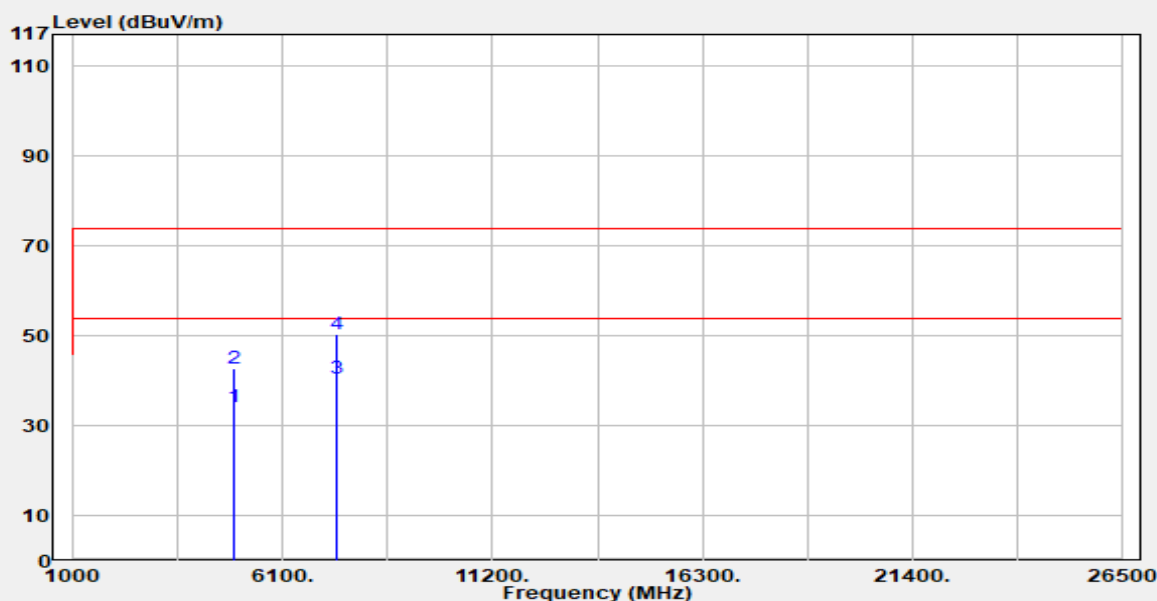
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Report Number :ER/2021/C0040
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	26.93	7.20	34.13	54.00	-19.87
4924.00	Peak	35.76	7.20	42.96	74.00	-31.04
7386.00	Average	26.05	14.45	40.50	54.00	-13.50
7386.00	Peak	35.87	14.45	50.32	74.00	-23.68

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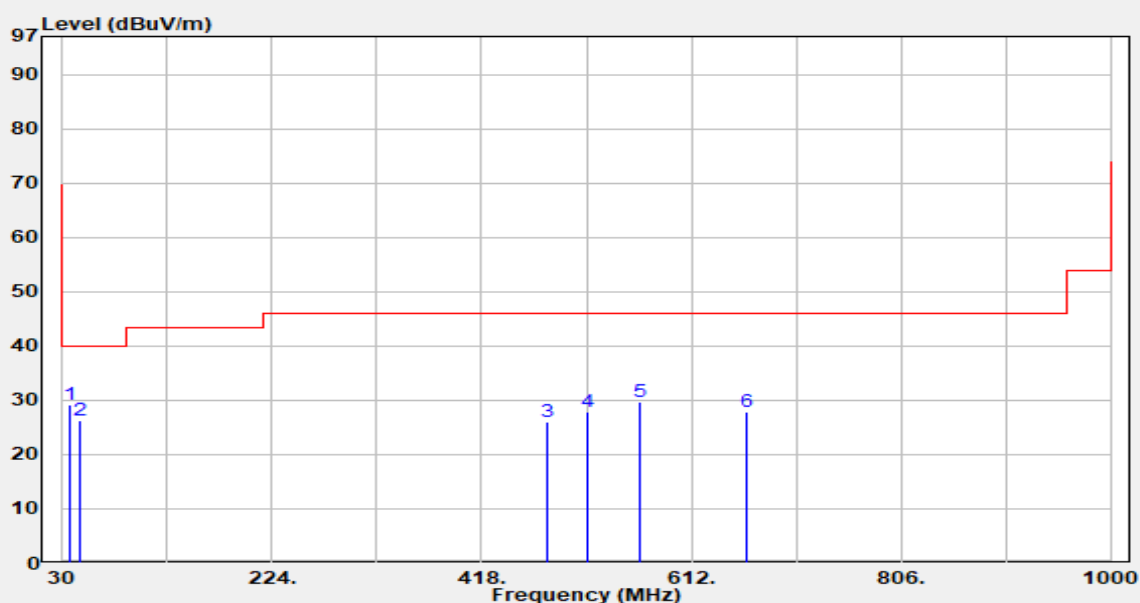
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13.6.3 接收機場強輻射

Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Rx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
36.47	Peak	37.36	-8.28	29.09	40.00	-10.91
46.17	Peak	40.11	-13.74	26.38	40.00	-13.62
477.82	Peak	32.05	-5.98	26.07	46.00	-19.93
516.62	Peak	33.48	-5.67	27.81	46.00	-18.19
565.12	Peak	34.19	-4.55	29.64	46.00	-16.36
663.73	Peak	31.28	-3.41	27.87	46.00	-18.13

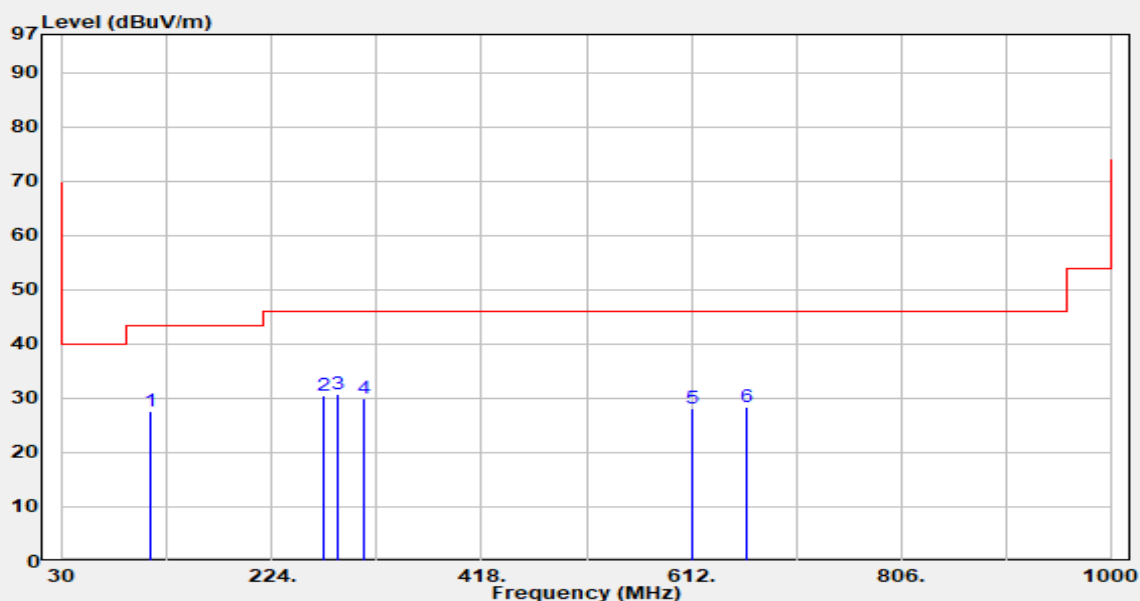
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Rx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
110.83	Peak	39.75	-12.24	27.51	43.50	-15.99
270.88	Peak	40.13	-9.74	30.40	46.00	-15.60
285.43	Peak	40.42	-9.56	30.86	46.00	-15.14
309.68	Peak	39.24	-9.25	29.98	46.00	-16.02
613.62	Peak	32.26	-4.16	28.10	46.00	-17.90
663.73	Peak	31.86	-3.41	28.45	46.00	-17.55

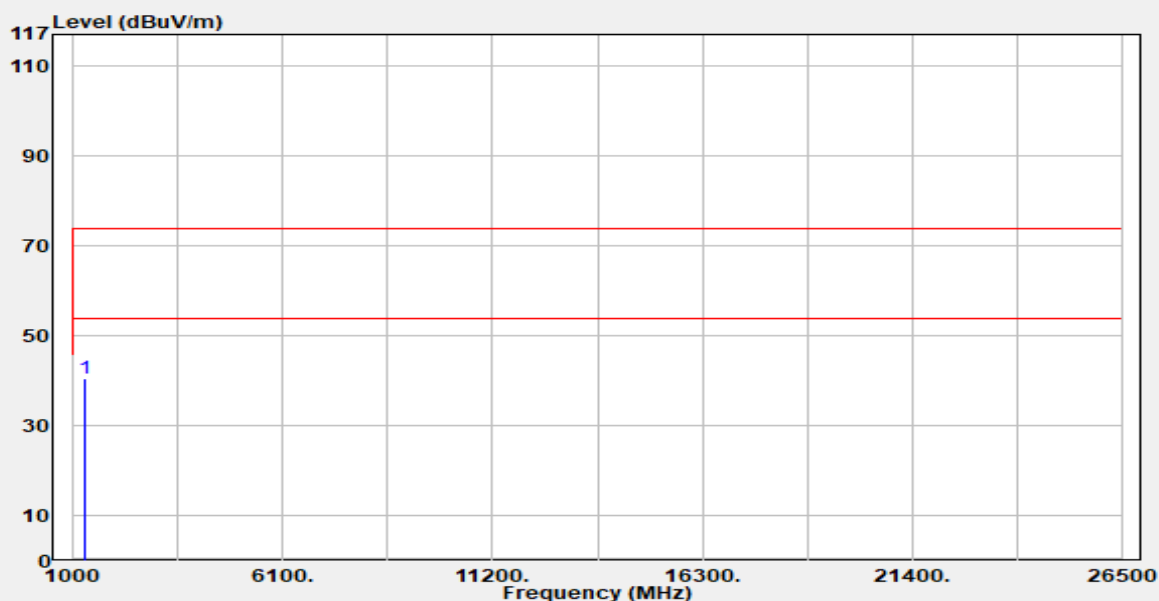
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Rx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1297.00	Peak	45.30	-4.72	40.58	74.00	-33.42

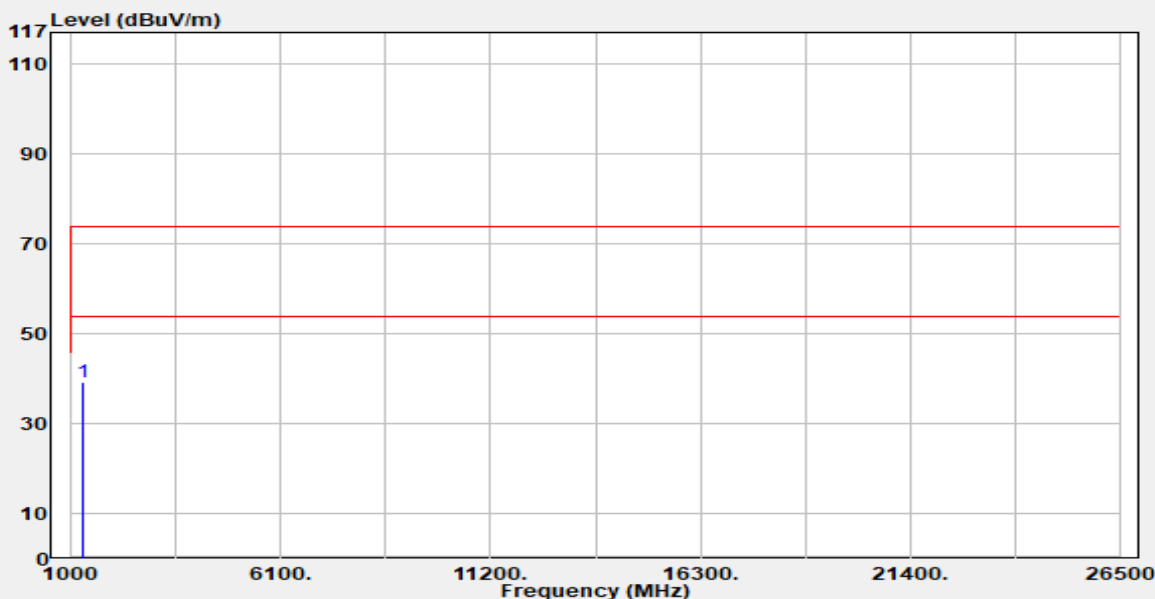
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Report Number :ER/2021/C0040
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Rx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-29
Temp./Humi. :22.3/65
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1288.00	Peak	44.20	-4.84	39.36	74.00	-34.64

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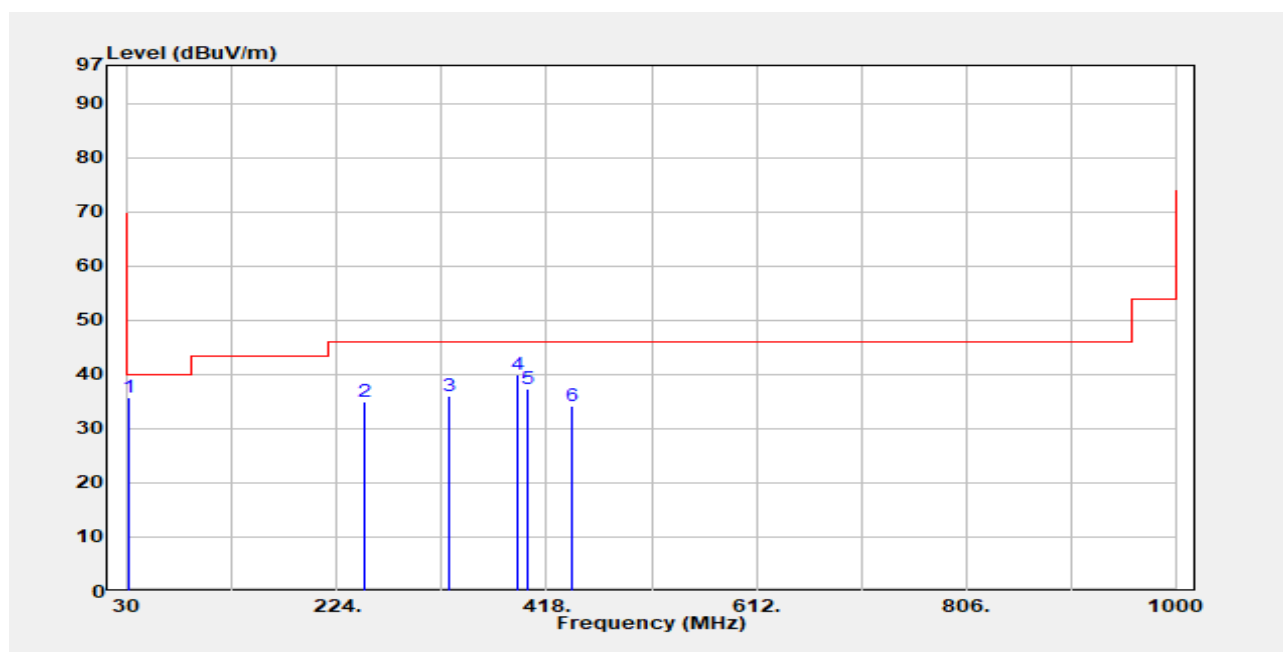
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13.6.4 Fully System

Report Number :ER/2021/C0038
Operation Mode :System
Test Frequency :System
Test Mode :System
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2022-01-06
Temp./Humi. :23.7/64
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.62	Peak	41.70	-6.01	35.70	40.00	-4.30
249.87	Peak	45.11	-10.05	35.06	46.00	-10.94
327.47	Peak	44.74	-8.70	36.04	46.00	-9.96
390.52	Peak	47.51	-7.46	40.05	46.00	-5.95
400.22	Peak	44.18	-6.91	37.27	46.00	-8.73
442.25	Peak	40.68	-6.39	34.29	46.00	-11.71

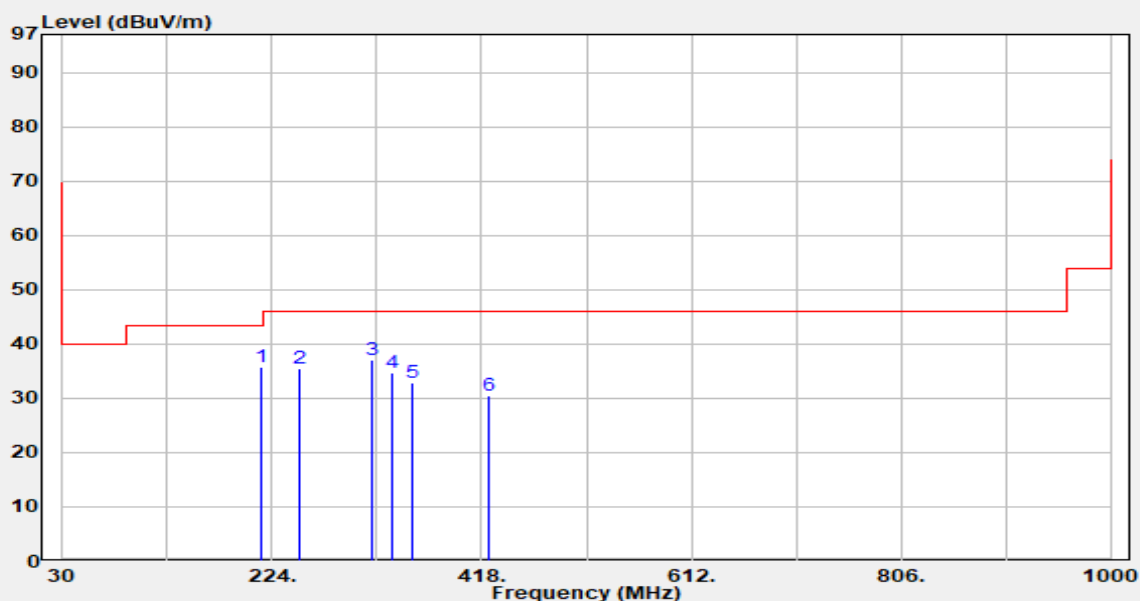
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Report Number :ER/2021/C0038
Operation Mode :System
Test Frequency :System
Test Mode :System
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2022-01-06
Temp./Humi. :23.7/64
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
214.30	Peak	49.52	-13.84	35.68	43.50	-7.82
249.87	Peak	45.56	-10.05	35.50	46.00	-10.50
316.15	Peak	46.01	-9.01	37.00	46.00	-9.00
335.55	Peak	43.27	-8.49	34.78	46.00	-11.22
353.33	Peak	40.78	-8.04	32.74	46.00	-13.26
424.47	Peak	37.15	-6.61	30.54	46.00	-15.46

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14 功率密度量測

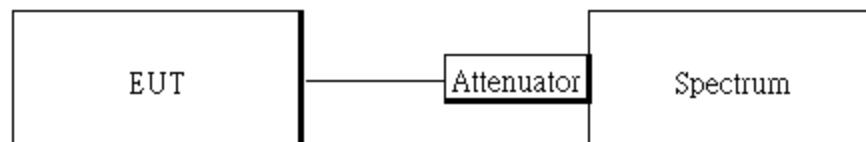
14.1 適用標準

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

14.2 量測儀器

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/09/2021	12/08/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A

14.3 測試配置



14.4 量測方法

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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10. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

Cable Loss Offset (dB)
9.6

Note:

For the test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

14.5 天線增益及輸出功率限值計算

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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14.6 量測結果

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-5.30	-5.30	8.00	PASS
2437	-3.19	-3.19	8.00	PASS
2462	-5.50	-5.50	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8.95	-8.95	8.00	PASS
2437	-7.25	-7.25	8.00	PASS
2462	-8.69	-8.69	8.00	PASS

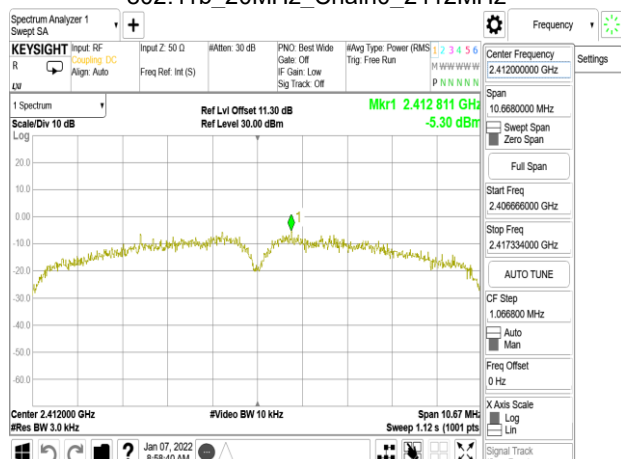
POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.51	-10.12	-6.79	5.99	PASS
2437	-8.51	-8.53	-5.51	5.99	PASS
2462	-9.08	-10.80	-6.85	5.99	PASS

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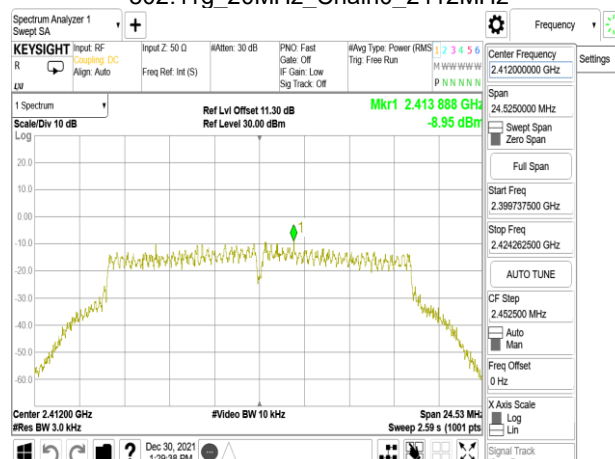
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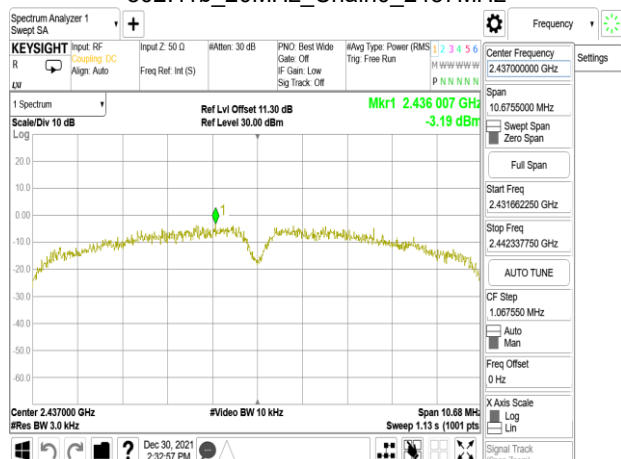
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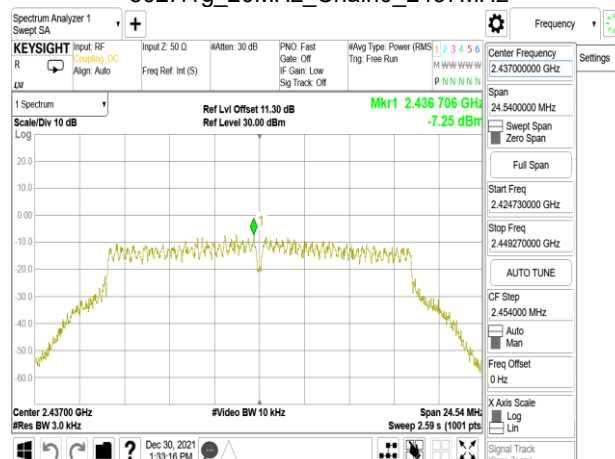
802.11g_20MHz_Chain0_2412MHz



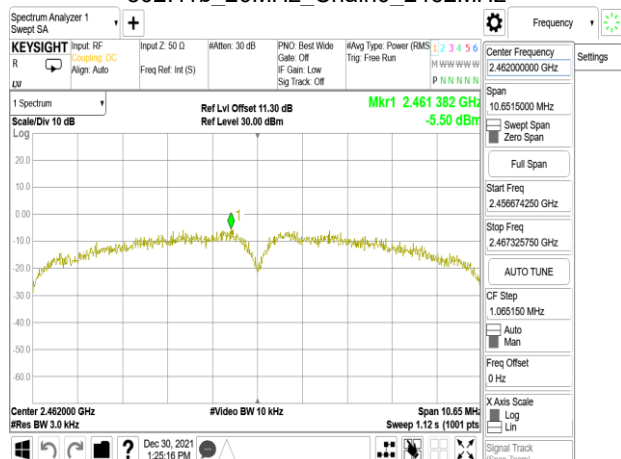
802.11b_20MHz_Chain0_2437MHz



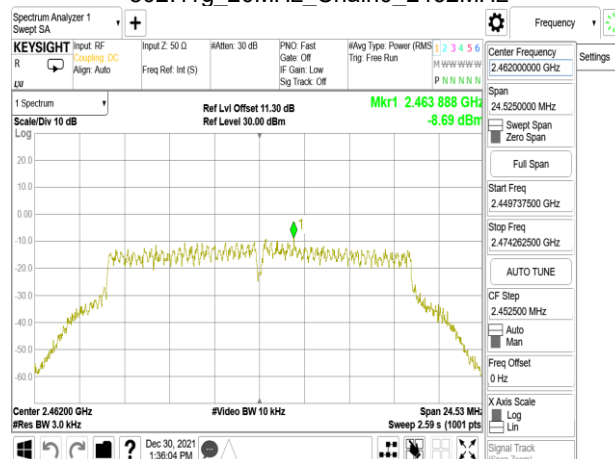
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

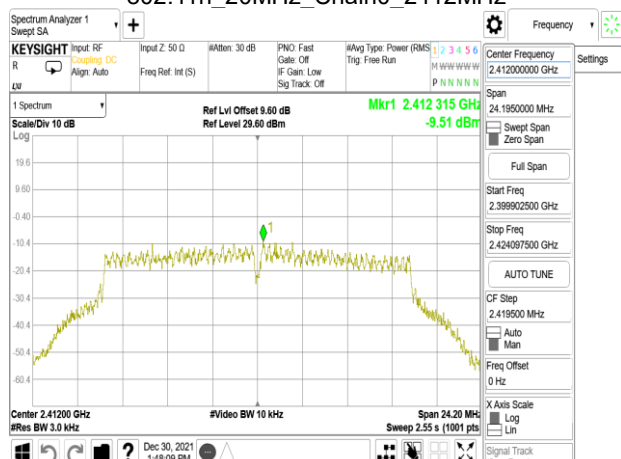


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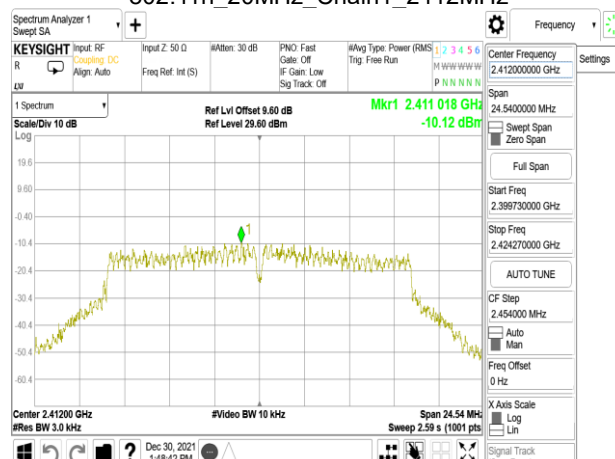
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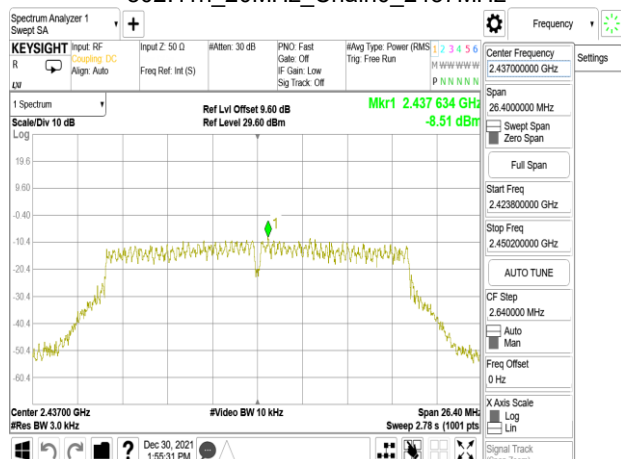
802.11n_20MHz_Chain0_2412MHz



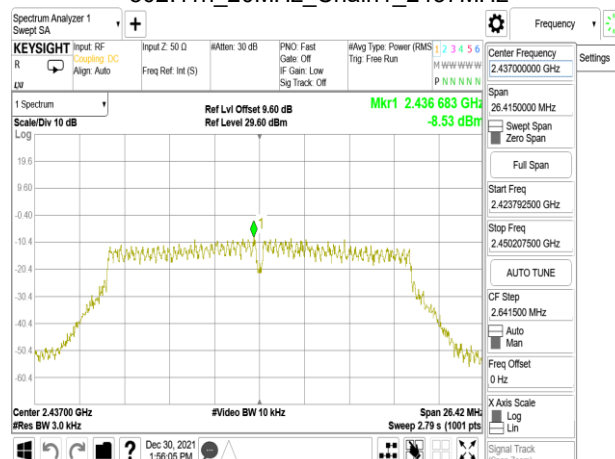
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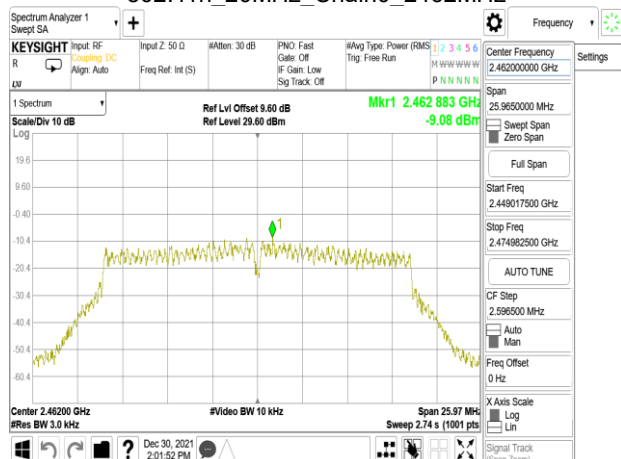
802.11n_20MHz_Chain0_2437MHz



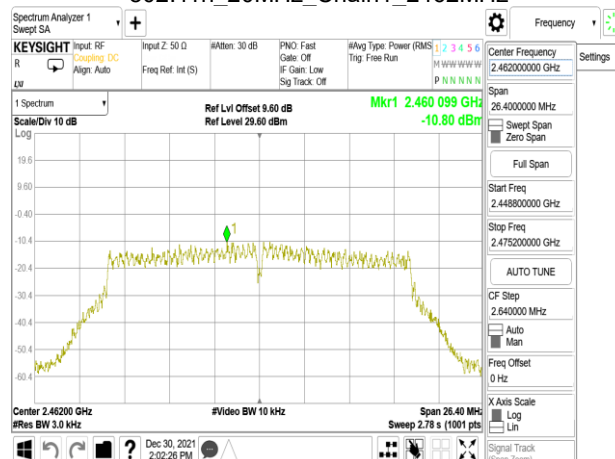
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



~ End of Report ~

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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