

低功率射頻電機試驗報告

申請廠商	Barco NV Barco NV President Kennedypark35, 8500 Kortrijk, Belgium
製造廠商	Barco NV
產品名稱	影音共享控制中心
廠牌	Barco
型號	CSE-200+
系列型號	C 5010S
發射功率	802.11 b: 25.61 dBm (Peak) 802.11 g: 24.64 dBm (Peak) 802.11 n (2.4GHz) HT 20 mode: 24.42 dBm (Peak) 802.11 n (2.4GHz) HT 40 mode: 22.34 dBm (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 電子通訊實驗室

新北市新北產業園區五工路134號

認證有效期間：107年06月14日起至110年06月13日止

受理日期 民國107年07月12日

完成日期 民國108年10月25日

陳俊傑

報告簽署人
陳俊傑 簽章

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Revision History

Revision	Description	Issue Date	Remark
Rev.00	Original.	Oct. 25, 2019	Revised By: Karen Huang

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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電子通訊實驗室，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，測試結果評為合格。

備註：

1. 報告中所描述之測試結果和待測設備的架構組合，均根據實際量測情況作詳實的記錄，且本測試報告僅對上述待測設備樣品負責。
2. 此份報告未經本公司同意，不得部份摘錄複製使用。
3. 系列申請，主型號: CSE-200+與系列型號: C 5010S，除型號差異、新增一顆 Adpater，產品確實符合同系列產品，技術規格及射頻性能相同，詳見下表及系列差異說明書。

PCB and Hardare Changes:	- USB audio codec IC - Stereo class-D audio amplifier - USB2.0 hub controller IC - 1 watt speaker through wire cpnnection
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f (886-2) 2298-0488

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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 0513，認可頻率範圍9kHz ~ 40GHz

認證有效期間： 107年06月14日起至110年06月13日止

測試場地： 新北市新北產業園區五工路134號

實驗室名稱： 台灣檢驗科技股份有限公司
電子通訊實驗室

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

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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1 一般資料

1.1 產品描述

產品名稱	影音共享控制中心	
型號	CSE-200+	
系列型號	C 5010S	
產品商標	Barco	
Hardware Version	EVT2	
Software Version	N/A	
WLAN Module:	Model No.: WCBN811A	
使用電源	120Vac input / 12Vdc output from AC/DC Adapter	
	Adapter:	1. Model No.: BA070-120417GXX, Supplier: BILLION 2. Model No.: ATS050T-A121, Supplier: Adapter Technology

WLAN 2.4GHz:

WLAN	發射頻帶	頻道數	輸出功率	Modulation Technology
11b/g	2412-2462	11	b: 25.61 dBm g: 24.64 dBm	DSSS, OFDM
11n	HT20 2412-2462	11	24.42 dBm	OFDM
11n	HT40 2422-2452	7	22.34 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 – 72.2Mbps 802.11 n_40MHz: 13.5 – 150.0Mbps			

天線型式 / 天線增益

天線型式	Supplier	Model No.	發射頻帶(MHz)	天線增益(dBi)
PCB	INPAQ	WA-P-LB-02-533	2412-2462	2.09

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f (886-2) 2298-0488

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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)	ANTENNA PORT	PLAN
RADIATED EMISSION TEST (BELOW 1 GHz)						
802.11g	1 to 11	6	OFDM	6	MAIN	E2
RADIATED EMISSION TEST (ABOVE 1 GHz)						
802.11b	1 to 11	1, 6, 11	DSSS	1	MAIN	E2
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN	
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0	MAIN	
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0	MAIN	

CONDUCTED TEST :					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	MAIN
802.11g	1 to 11	1,6,11	OFDM	6	MAIN
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0	MAIN
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0	MAIN

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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

1.5 Addendum to the original test report:

此報告為原報告 ER/2018/C0031 的加發報告，原報告與此報告的待測物經評估後確認 硬體結構 和 軟體結構 完全相同，因此原報告內的測試結果完全沿用於此報告，僅新增一顆 Adapter 和型號，以及測試 Spot Check 輸出功率在 ± 2 dB 內、Conduction 及 Radiated Emission。

1.6 免責聲明

型號差異性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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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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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 至 30MHz 之射頻電壓 (在電源端子每一電源線對接地點) 不得超過下表所列之限值。測量時應經過 50 μ H 及 50 Ω 之電源線阻抗模擬網路 (LISN)。頻率重疊處，以較低限值為準。

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
* 影音共享控制中心	Barco NV / Barco NV	CSE-200+

標記：“*”表欲申請之受測物。

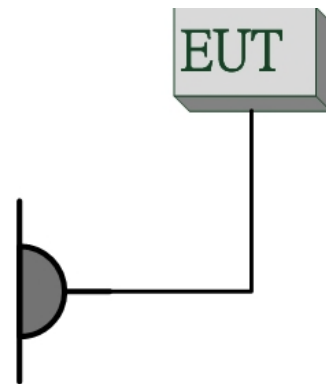
3.1 待測物與測試設備系統圖

3.1.1 量測配置圖

Conducted (Antenna Port) Emission



Radiated Emission & Conduction (AC Power Line) Emission



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

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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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100335	02/02/2018	02/01/2019
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/18/2018	05/17/2019

For Spot Check Data:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 3	100335	02/12/2019	02/11/2020
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2018	11/25/2019
LISN	SCHWARZBECK	NSLK 8127	8127-649	04/02/2019	04/01/2020
LISN	FCC	FCC-LISN-50/250-25-2-01	4034	04/09/2019	04/08/2020
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R	N.C.R

4.2 天線端傳導測試之量測儀器

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	02/01/2018	01/31/2019
Power Sensor	Anritsu	MA2411B	1726104	02/01/2018	01/31/2019
Power Sensor	Anritsu	MA2411B	1726107	02/01/2018	01/31/2019
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/03/2018	05/02/2019
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2018	01/01/2019
Coaxial Cables	N/A	WK CE Cable	N/A	01/02/2018	01/01/2019

For Spot Check Data:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	02/13/2019	02/12/2020
Power Sensor	Anritsu	MA2411B	1726104	02/13/2019	02/12/2020
Power Sensor	Anritsu	MA2411B	1726107	02/13/2019	02/12/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020

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4.3 量測場強輻射之量測儀器

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	12/29/2017	12/28/2018
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/04/2017	08/03/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2017	12/11/2018
Loop Antenna	ETS.LINDGREN	6502	148045	09/26/2017	09/25/2018
3m Site NSA	SGS	966 chamber	N/A	01/02/2018	01/01/2019
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/15/2018	05/14/2019
Network Analyze	Anritsu	MS4644A	1216312	06/19/2018	06/18/2019
Pre-Amplifier	HP	8449B	3008A00578	01/02/2018	01/01/2019
Pre-Amplifier	HP	8447D	2944A07676	01/02/2018	01/01/2019
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/02/2018	10/01/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2018	01/01/2019
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/02/2018	01/01/2019
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2018	01/01/2019
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2018	01/01/2019

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/16/2018	08/15/2019
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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For Spot Check Data:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/10/2019	01/09/2020
Horn Antenna	Schwarzbeck	BBHA9170	07/02/1900	12/27/2018	12/26/2019
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/24/2018	12/23/2019
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
EMI Test Receiver	R&S	ESCI 3	100335	02/12/2019	02/11/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2019	01/01/2020
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2019	01/01/2020
Pre-Amplifier	HP	8447D	2944A09469	01/02/2019	01/01/2020
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/02/2019	01/01/2020
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/02/2019	01/01/2020
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2019	01/01/2020
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2019	01/01/2020
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2019	01/01/2020
Software	e3 V6.11-20180413				

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5 電源線傳導干擾之量測

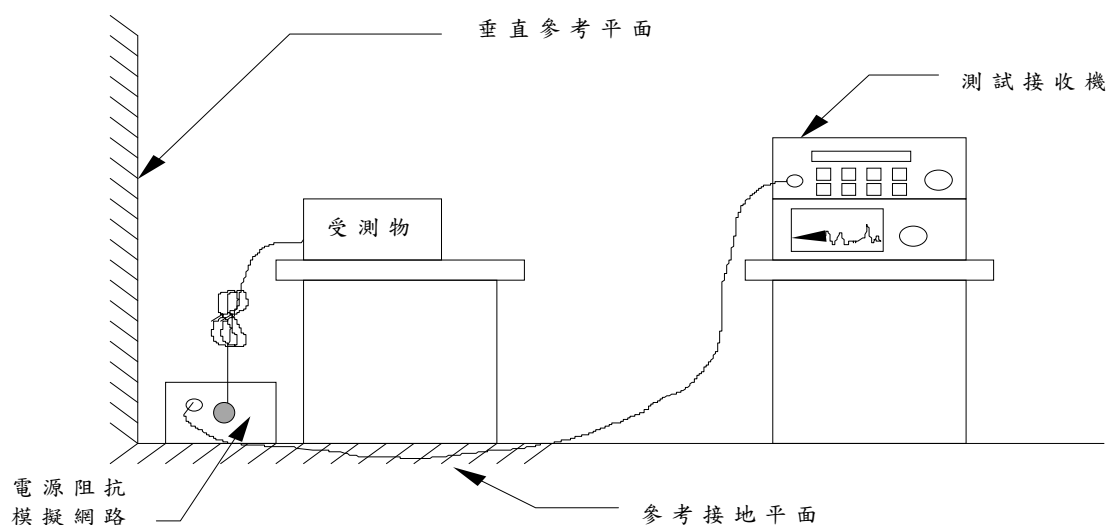
5.1 適用標準

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

測試設備: 影音共享控制中心

6dB 頻寬: 10 kHz

量測天線: N/A

型號:

CSE-200+

視訊頻寬:

10 kHz

檢測器:

Average/Quasi-Peak

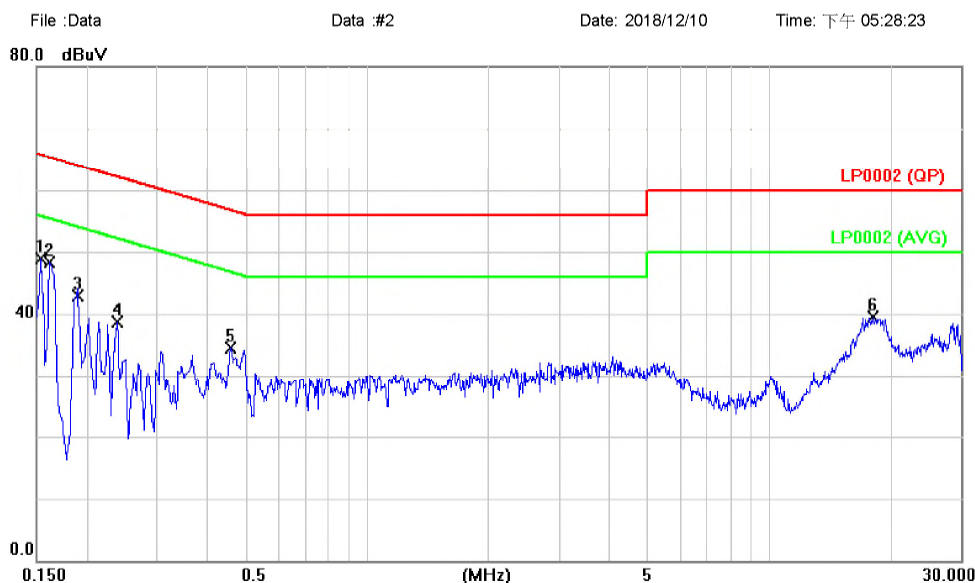
Adapter Model No.: BA070-120417GXX

Site: Conduction Room
 Limit: LP0002 (QP)
 Mode: Operation
 Note: BA070-120417GXX

Phase: L1
 Power: AC 110V/60Hz

Temperature: 25 °C
 Humidity: 85 %

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1540	48.84	0.03	48.87	65.78	-16.91	peak	
2		0.1620	48.26	0.03	48.29	65.36	-17.07	peak	
3		0.1904	42.79	0.03	42.82	64.02	-21.20	peak	
4		0.2380	38.60	0.03	38.63	62.17	-23.54	peak	
5		0.4580	34.55	0.04	34.59	56.73	-22.14	peak	
6		18.0900	39.11	0.38	39.49	60.00	-20.51	peak	

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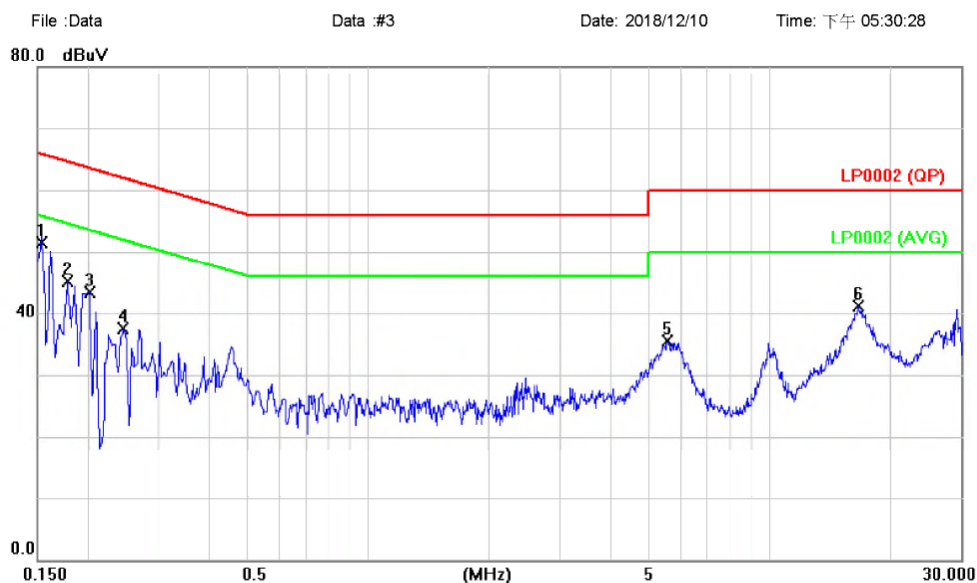
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Site Conduction Room
Limit: LP0002 (QP)
Mode: Operation
Note: BA070-120417GXX

Phase: **N**
Power: AC 110V/60Hz

Temperature: 25 ℃
Humidity: 85 %

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1540	51.46	0.03	51.49	65.78	-14.29	peak	
2		0.1780	45.00	0.03	45.03	64.58	-19.55	peak	
3		0.2020	43.35	0.03	43.38	63.53	-20.15	peak	
4		0.2460	37.42	0.03	37.45	61.89	-24.44	peak	
5		5.5700	35.30	0.22	35.52	60.00	-24.48	peak	
6		16.5780	40.70	0.36	41.06	60.00	-18.94	peak	

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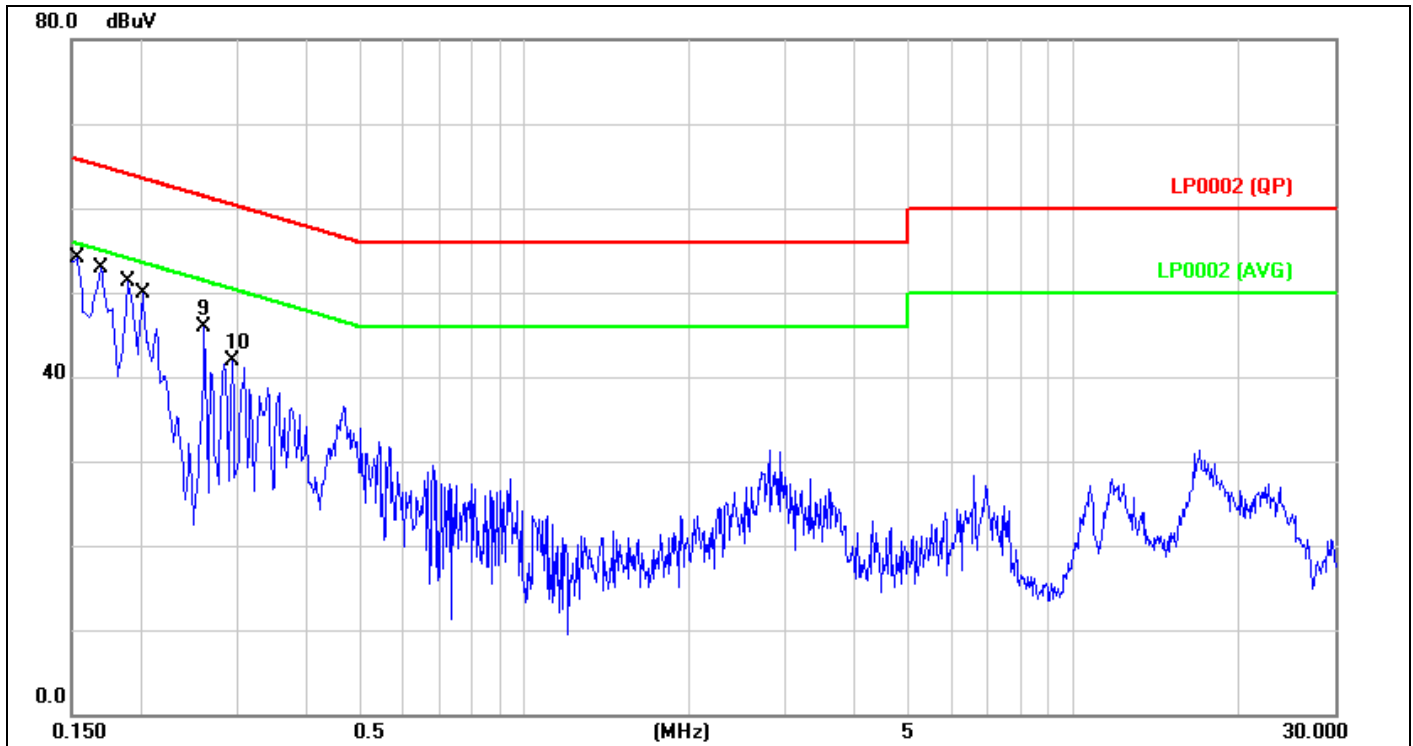
Spot Check Data:

Adapter Model No.: ATS050T-A121

Model No.: CSE-200+

Description: Operation (WLAN2.4G)
Line: L1
Test Voltage: AC 110V/60Hz

Date: 2019/10/15
Temp.(°C)/Hum.(%): 24(°C)/64%
Test By: Nick



No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Comment
		(MHz)	dBuV	(dB)	(dBuV)	(dBuV)	(dB)		
1	*	0.1540	51.48	0.00	51.48	65.78	-14.30	QP	
2		0.1540	40.57	0.00	40.57	55.78	-15.21	AVG	
3		0.1700	47.17	0.00	47.17	64.96	-17.79	QP	
4		0.1700	33.53	0.00	33.53	54.96	-21.43	AVG	
5		0.1900	44.45	0.01	44.46	64.04	-19.58	QP	
6		0.1900	32.03	0.01	32.04	54.04	-22.00	AVG	
7		0.2020	43.60	0.01	43.61	63.53	-19.92	QP	
8		0.2020	33.77	0.01	33.78	53.53	-19.75	AVG	
9		0.2620	45.90	0.01	45.91	61.37	-15.46	peak	
10		0.2940	41.90	0.01	41.91	60.41	-18.50	peak	

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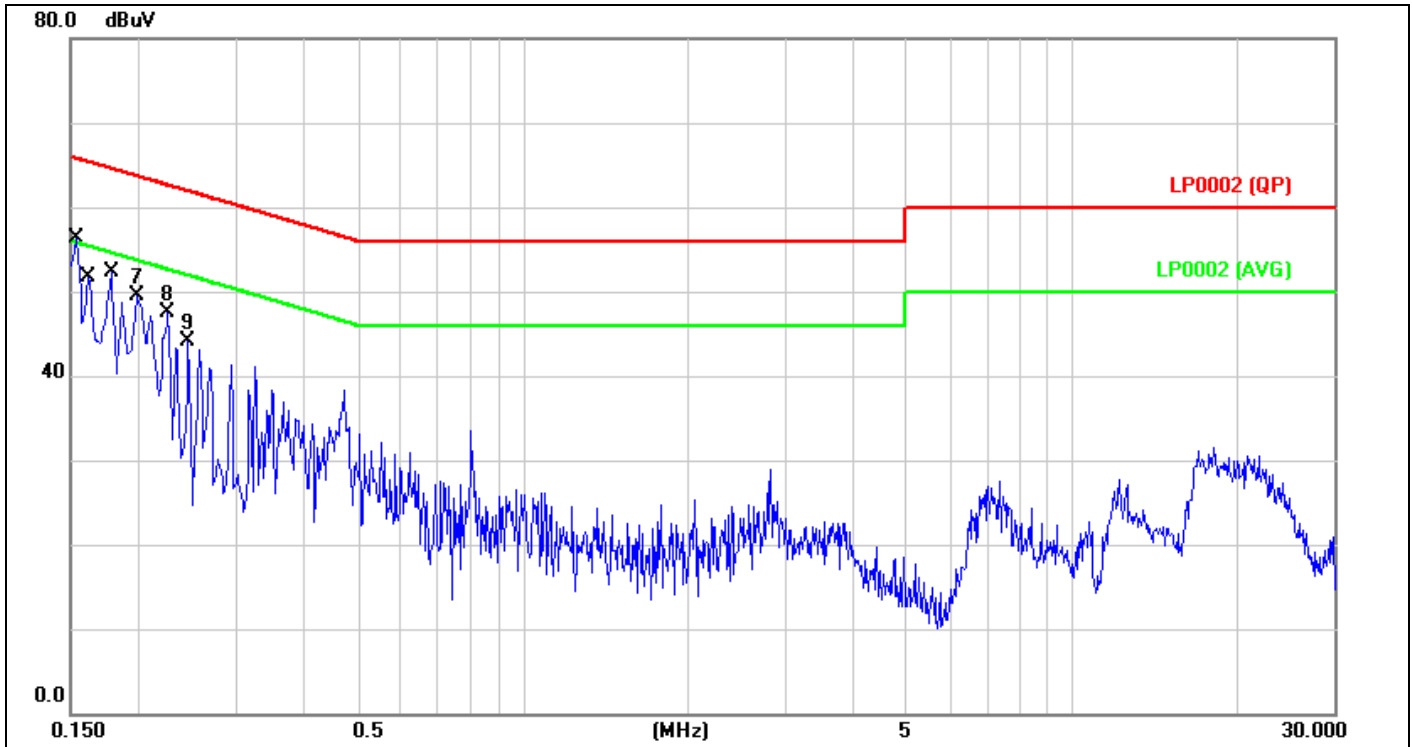
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Description: Operation (WLAN2.4G)
Line: N
Test Voltage: AC 110V/60Hz

Date: 2019/10/15
Temp.(°C)/Hum.(%): 24(°C)/64%
Test By: Nick



No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Comment
		(MHz)	dBuV	(dB)	(dBuV)	(dBuV)	(dB)		
1		0.1540	50.05	0.03	50.08	65.78	-15.70	QP	
2		0.1540	40.03	0.03	40.06	55.78	-15.72	AVG	
3		0.1620	49.11	0.03	49.14	65.36	-16.22	QP	
4		0.1620	37.28	0.03	37.31	55.36	-18.05	AVG	
5		0.1780	45.56	0.03	45.59	64.58	-18.99	QP	
6		0.1780	32.53	0.03	32.56	54.58	-22.02	AVG	
7	*	0.1980	49.50	0.03	49.53	63.69	-14.16	peak	
8		0.2260	47.40	0.03	47.43	62.60	-15.17	peak	
9		0.2460	44.10	0.03	44.13	61.89	-17.76	peak	

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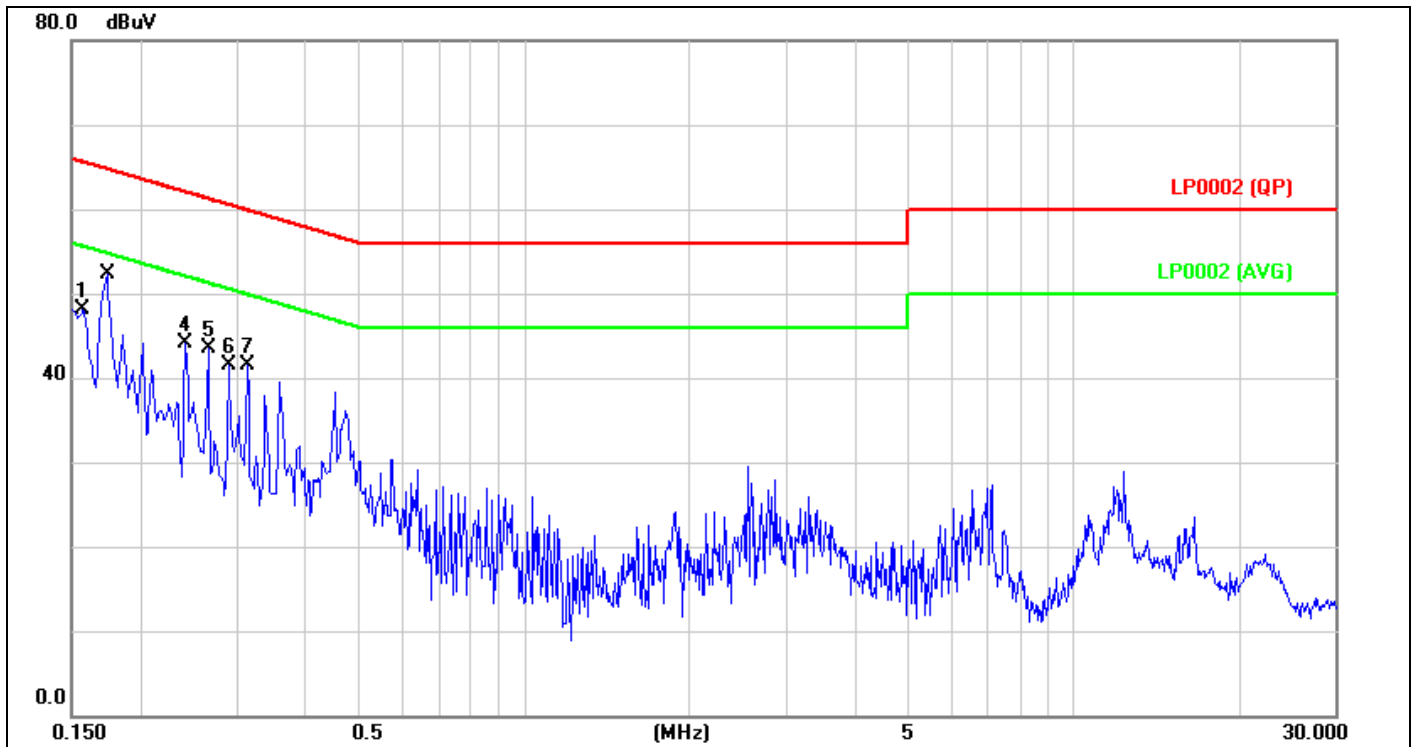
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Model No.: C 5010S

Description: Operation (WLAN2.4G)
Line: L1
Test Voltage: AC 110V/60Hz

Date: 2019/10/15
Temp.(°C)/Hum.(%): 24(°C)/64%
Test By: Nick



No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Comment
		(MHz)	dBuV	(dB)	(dBuV)	(dBuV)	(dB)		
1	*	0.1580	48.08	0.00	48.08	65.57	-17.49	peak	
2		0.1740	39.59	0.00	39.59	64.77	-25.18	QP	
3		0.1740	30.19	0.00	30.19	54.77	-24.58	AVG	
4		0.2420	44.16	0.01	44.17	62.03	-17.86	peak	
5		0.2660	43.44	0.01	43.45	61.24	-17.79	peak	
6		0.2900	41.41	0.01	41.42	60.52	-19.10	peak	
7		0.3140	41.41	0.01	41.42	59.86	-18.44	peak	

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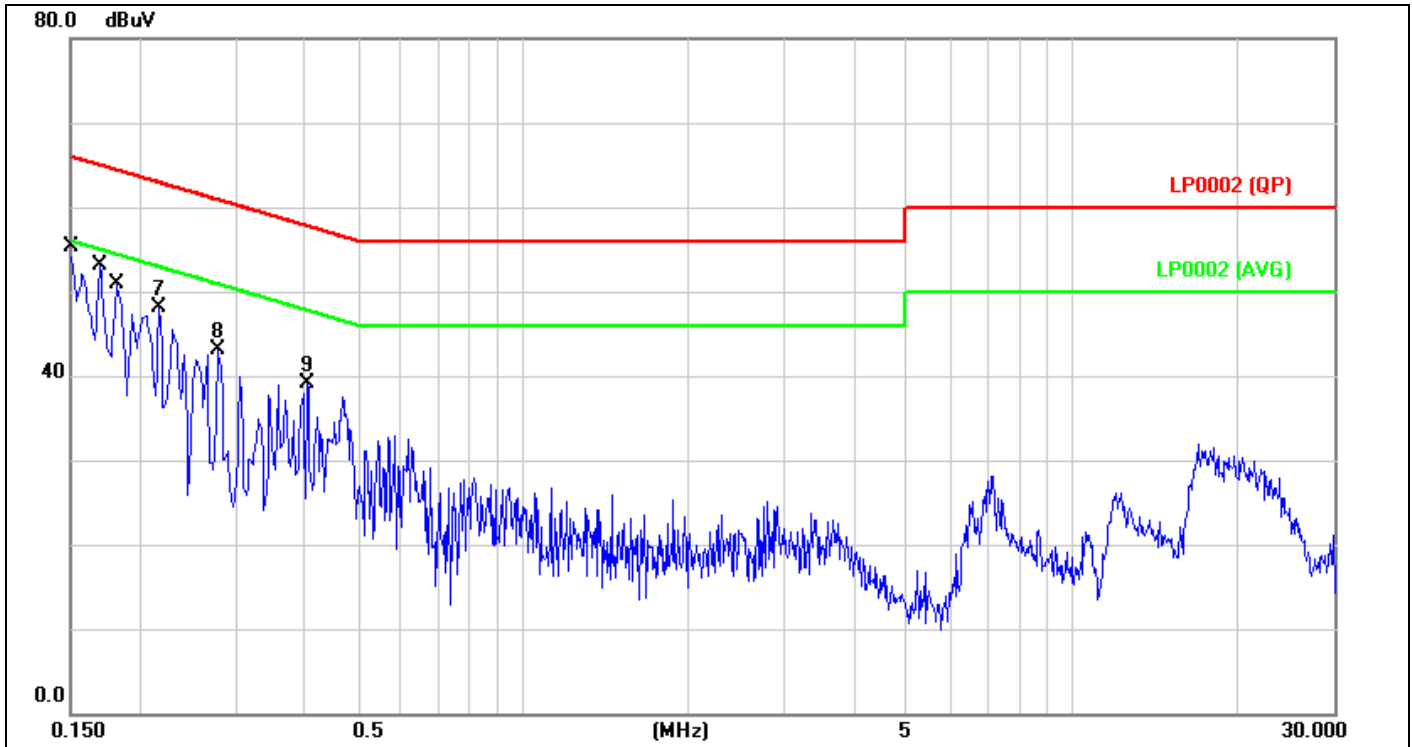
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Description: Operation (WLAN2.4G)
Line: N
Test Voltage: AC 110V/60Hz

Date: 2019/10/15
Temp.(°C)/Hum.(%): 24(°C)/64%
Test By: Nick



No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Comment
		(MHz)	dBuV	(dB)	(dBuV)	(dBuV)	(dB)		
1		0.1500	51.35	0.03	51.38	66.00	-14.62	QP	
2	*	0.1500	42.35	0.03	42.38	56.00	-13.62	AVG	
3		0.1700	46.50	0.03	46.53	64.96	-18.43	QP	
4		0.1700	37.11	0.03	37.14	54.96	-17.82	AVG	
5		0.1820	45.72	0.03	45.75	64.39	-18.64	QP	
6		0.1820	38.72	0.03	38.75	54.39	-15.64	AVG	
7		0.2180	48.00	0.03	48.03	62.89	-14.86	peak	
8		0.2780	43.09	0.03	43.12	60.88	-17.76	peak	
9		0.4060	39.03	0.03	39.06	57.73	-18.67	peak	

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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:	VULB9168	檢測器:	Quasi-Peak/Average

1GHz 以上測試

量測天線:	3117	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: Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

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

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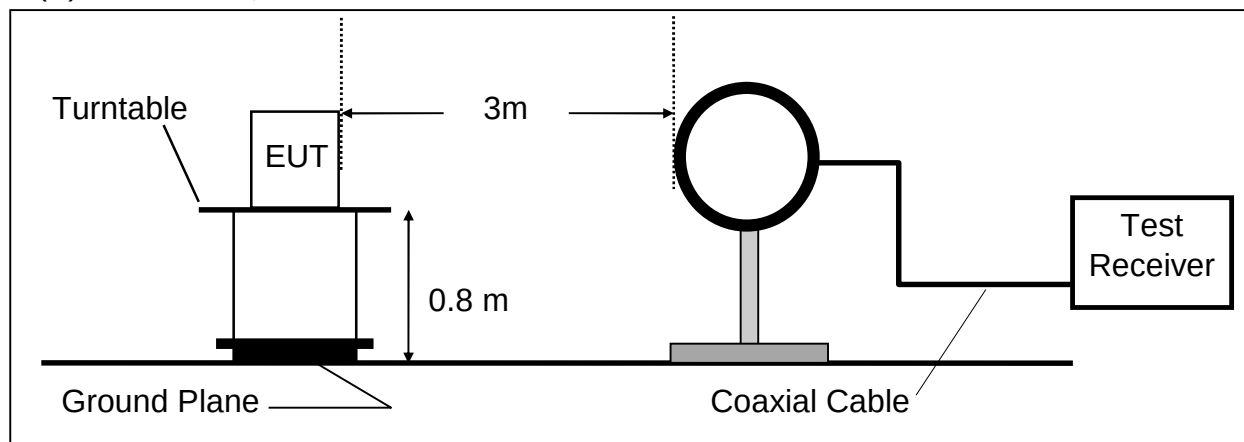
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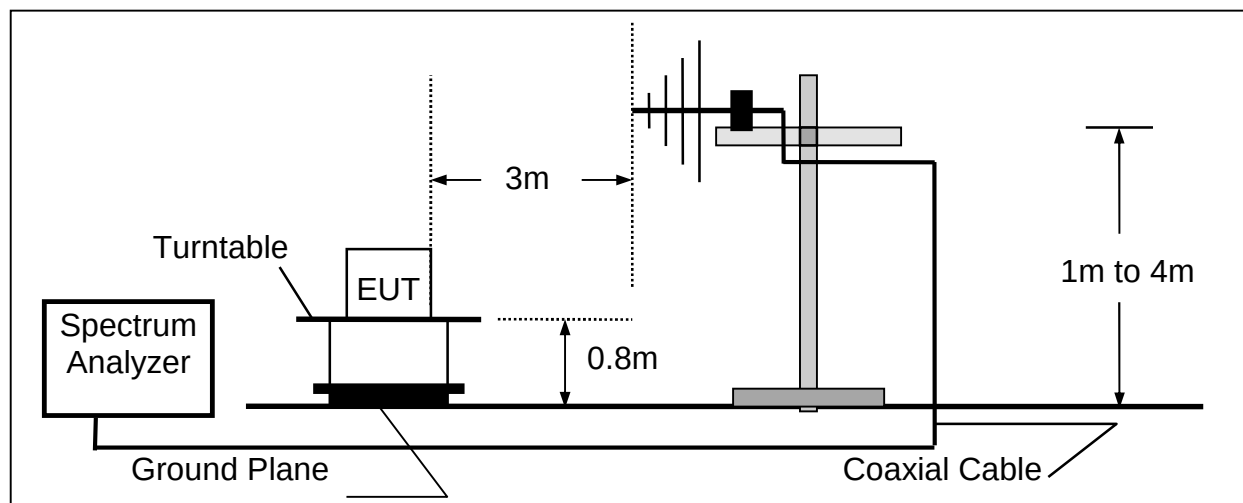
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6.4 輻射之測試配置

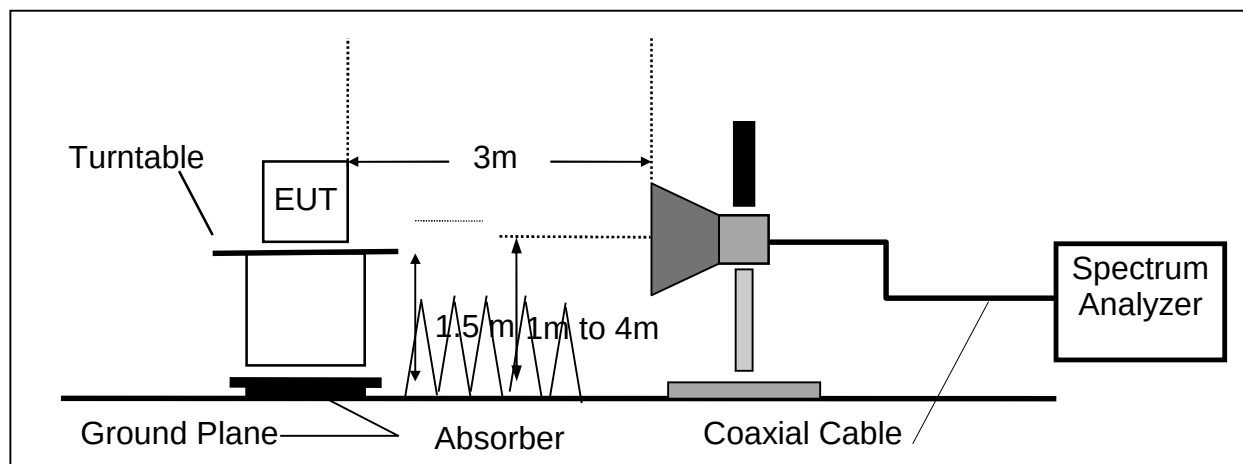
(A) 量測頻率低於 30MHz 以下之測試配置



(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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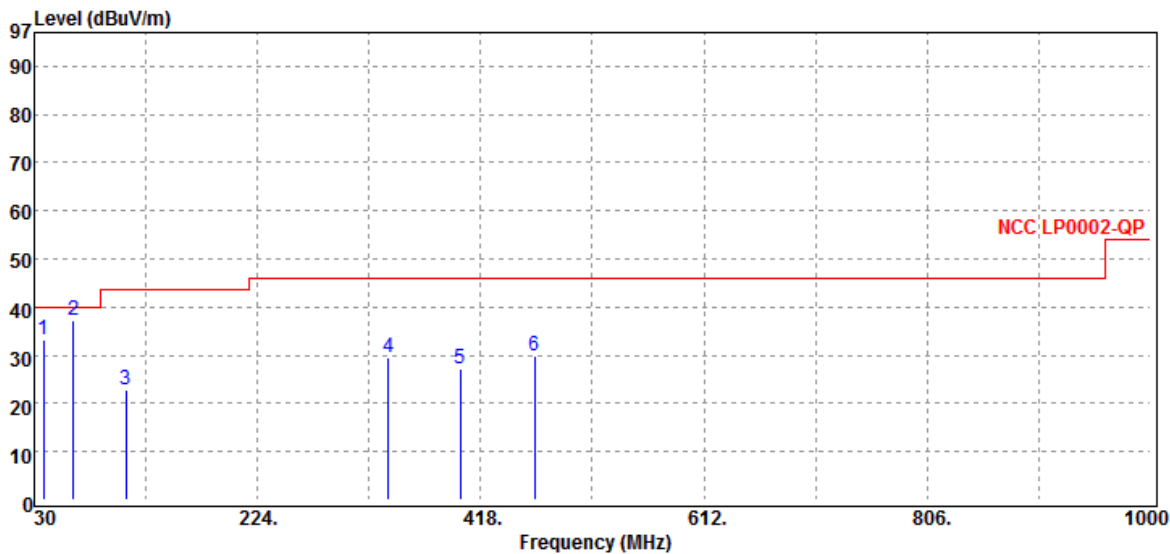
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6.5 場強輻射之量測結果

6.5.1 發射模式 1GHz 以下測試 (最差模式)

Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-08-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
37.76	Peak	41.81	-8.46	33.35	40.00	-6.65
63.95	Peak	46.09	-8.75	37.34	40.00	-2.66
109.54	Peak	33.81	-11.05	22.76	43.50	-20.74
337.49	Peak	34.48	-4.85	29.63	46.00	-16.37
400.54	Peak	30.61	-3.37	27.24	46.00	-18.76
464.56	Peak	31.80	-2.08	29.72	46.00	-16.28

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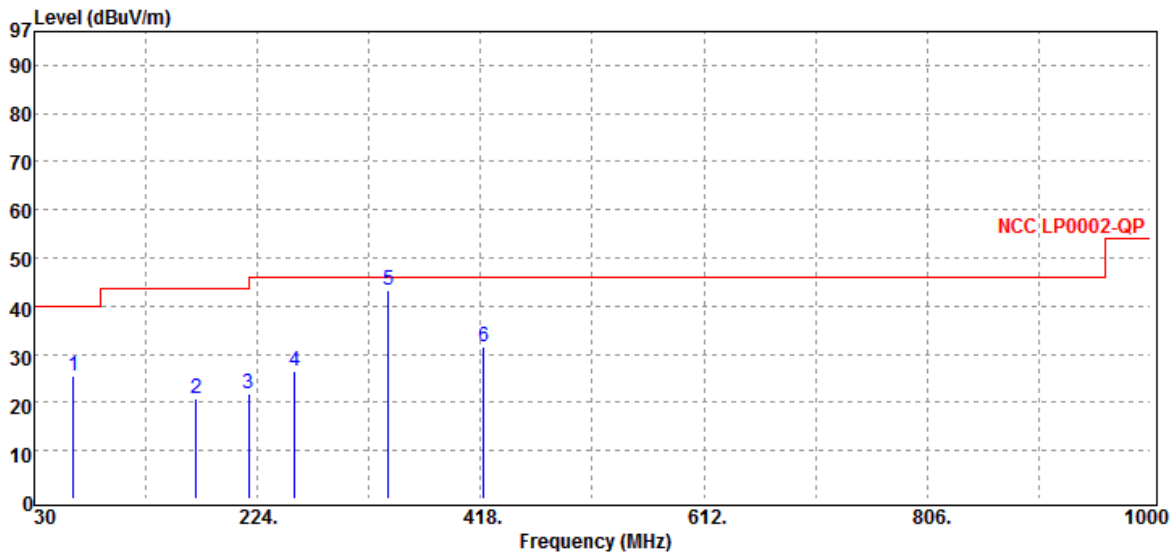
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Operation Band :802.11g
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-08-06
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
63.95	Peak	34.26	-8.75	25.51	40.00	-14.49
170.65	Peak	28.05	-7.38	20.67	43.50	-22.83
216.24	Peak	31.00	-9.14	21.86	46.00	-24.14
256.01	Peak	33.73	-7.13	26.60	46.00	-19.40
337.49	Peak	48.09	-4.85	43.24	46.00	-2.76
420.91	Peak	34.51	-2.84	31.67	46.00	-14.33

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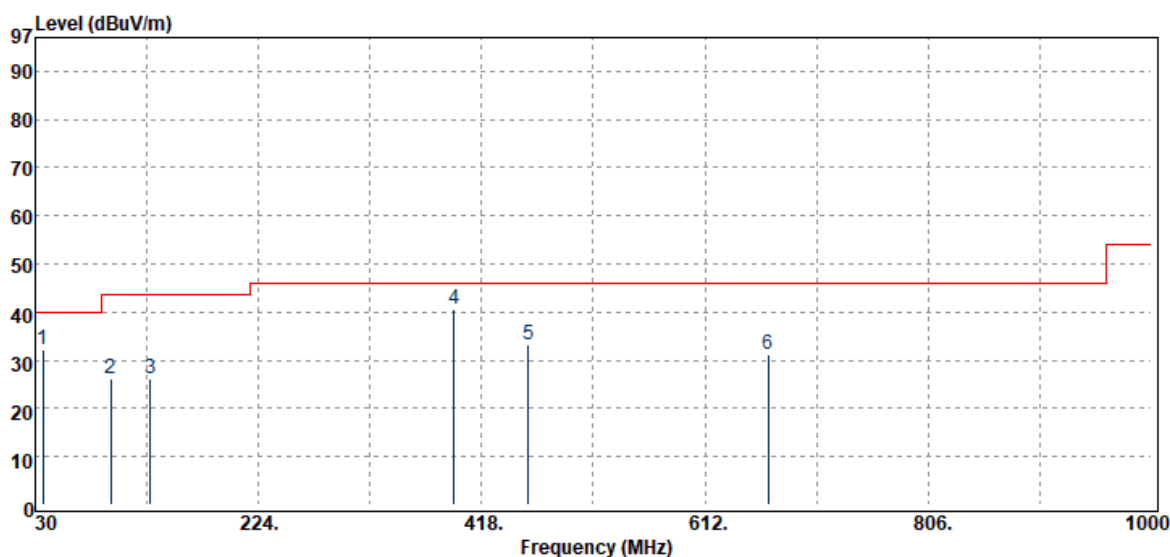
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Spot Check Data:

Model No.: CSE-200+

Report Number :ER-2018-C0031A-01
Operation Mode :802.11b
Test Channel :CH11_2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
36.79	Peak	40.01	-7.70	32.31	40.00	-7.69
95.96	Peak	39.28	-13.12	26.16	43.50	-17.34
129.91	Peak	37.41	-11.23	26.18	43.50	-17.32
393.75	Peak	46.99	-6.27	40.72	46.00	-5.28
458.74	Peak	38.93	-5.79	33.14	46.00	-12.86
667.29	Peak	34.32	-3.00	31.32	46.00	-14.68

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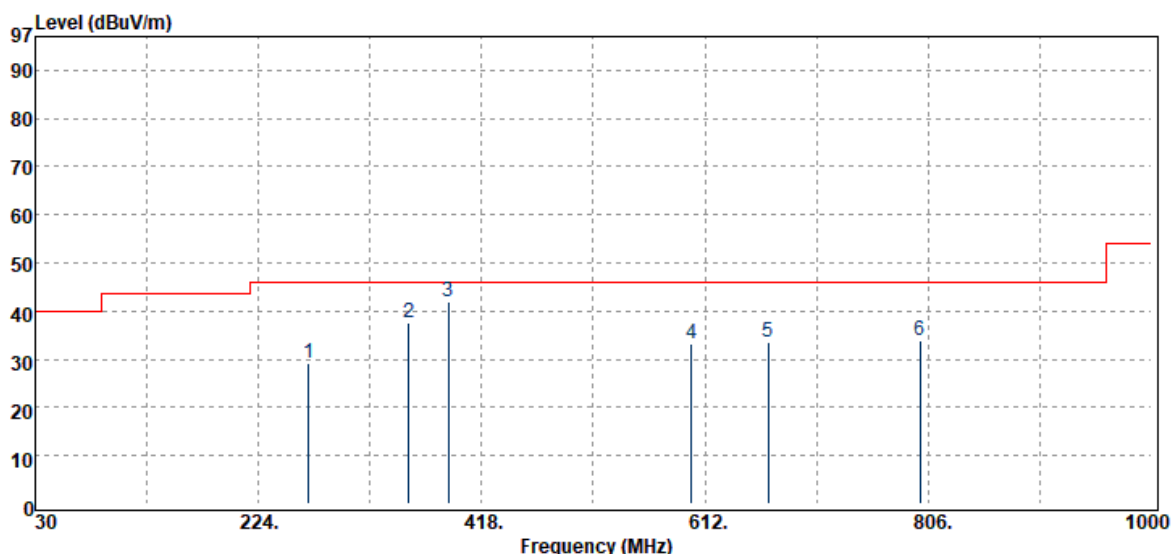
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11b
Test Channel :CH11_2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
267.65	Peak	37.98	-8.70	29.28	46.00	-16.72
354.95	Peak	44.46	-6.99	37.47	46.00	-8.53
388.90	Peak	48.26	-6.42	41.84	46.00	-4.16
600.36	Peak	36.44	-3.35	33.09	46.00	-12.91
667.29	Peak	36.55	-3.00	33.55	46.00	-12.45
799.21	Peak	34.70	-0.72	33.98	46.00	-12.02

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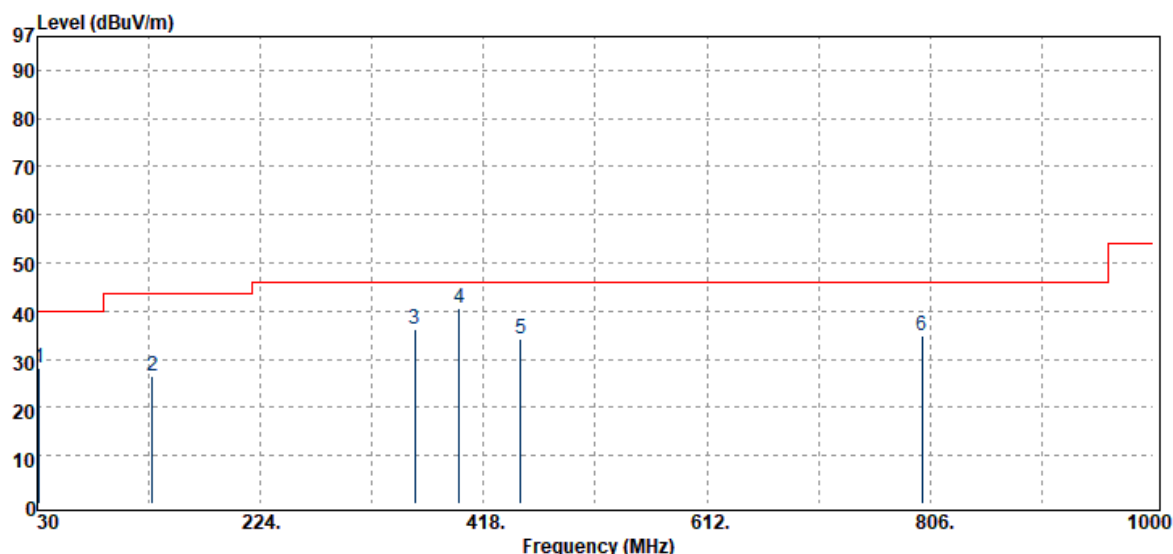
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Model No.: C 5010S

Report Number :ER-2018-C0031A-01
Operation Mode :802.11b
Test Channel :CH11_2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
31.94	Peak	33.41	-5.09	28.32	40.00	-11.68
129.91	Peak	37.73	-11.23	26.50	43.50	-17.00
357.86	Peak	43.24	-6.98	36.26	46.00	-9.74
396.66	Peak	46.90	-6.19	40.71	46.00	-5.29
450.01	Peak	40.47	-6.18	34.29	46.00	-11.71
799.21	Peak	35.65	-0.72	34.93	46.00	-11.07

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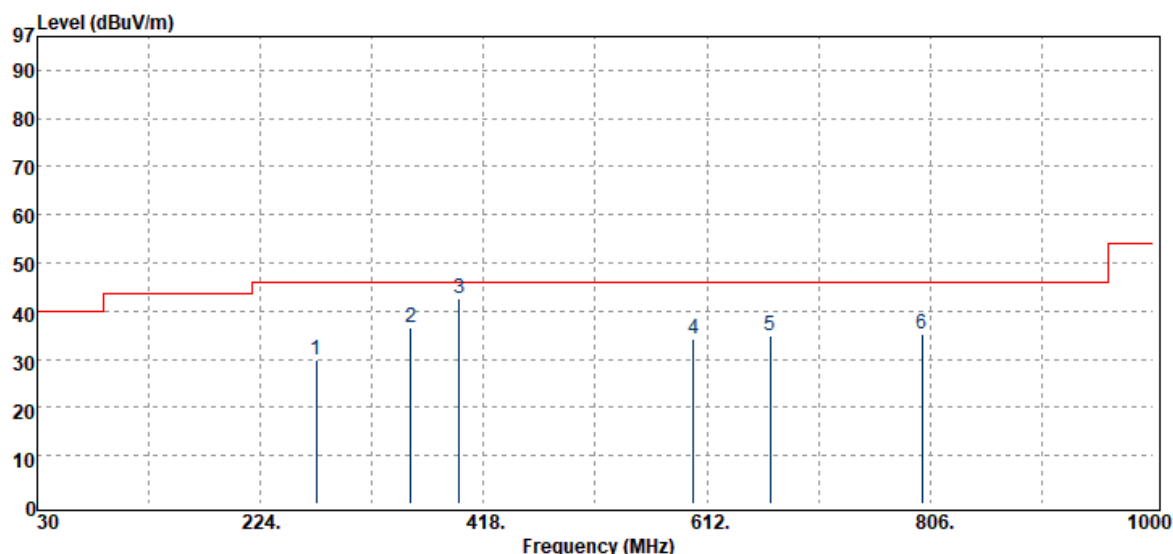
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11b
Test Channel :CH11_2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
272.50	Peak	38.72	-8.94	29.78	46.00	-16.22
354.95	Peak	43.55	-6.99	36.56	46.00	-9.44
396.66	Peak	48.95	-6.19	42.76	46.00	-3.24
600.36	Peak	37.62	-3.35	34.27	46.00	-11.73
667.29	Peak	37.74	-3.00	34.74	46.00	-11.26
799.21	Peak	36.02	-0.72	35.30	46.00	-10.70

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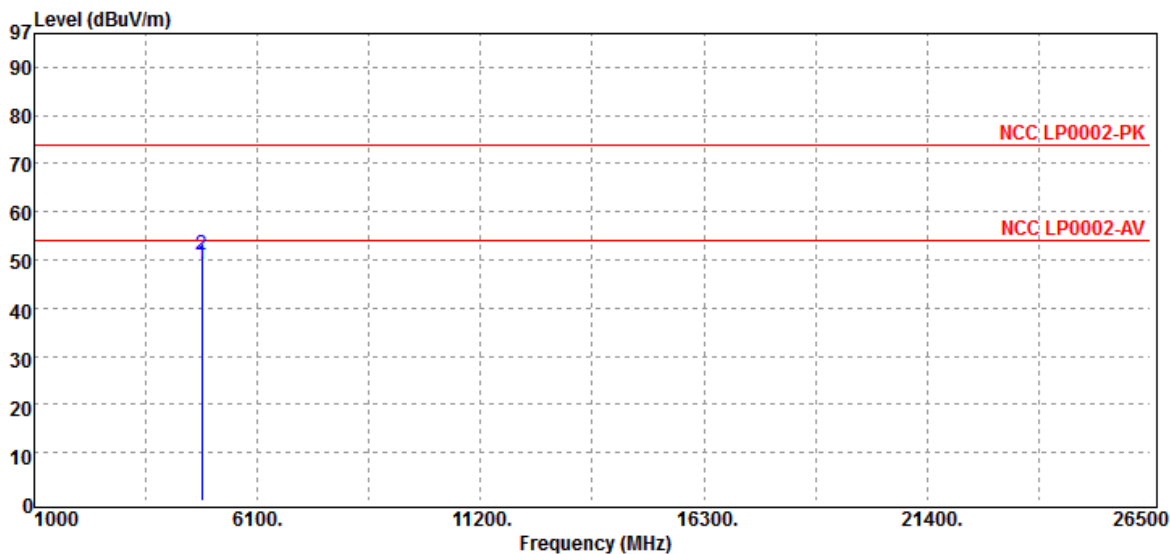
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6.5.2 發射模式 1GHz 以上測試

Operation Band :802.11b
Fundamental Frequency :2412 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



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	43.37	5.61	48.98	54.00	-5.02
4824.00	Peak	45.48	5.61	51.09	74.00	-22.91

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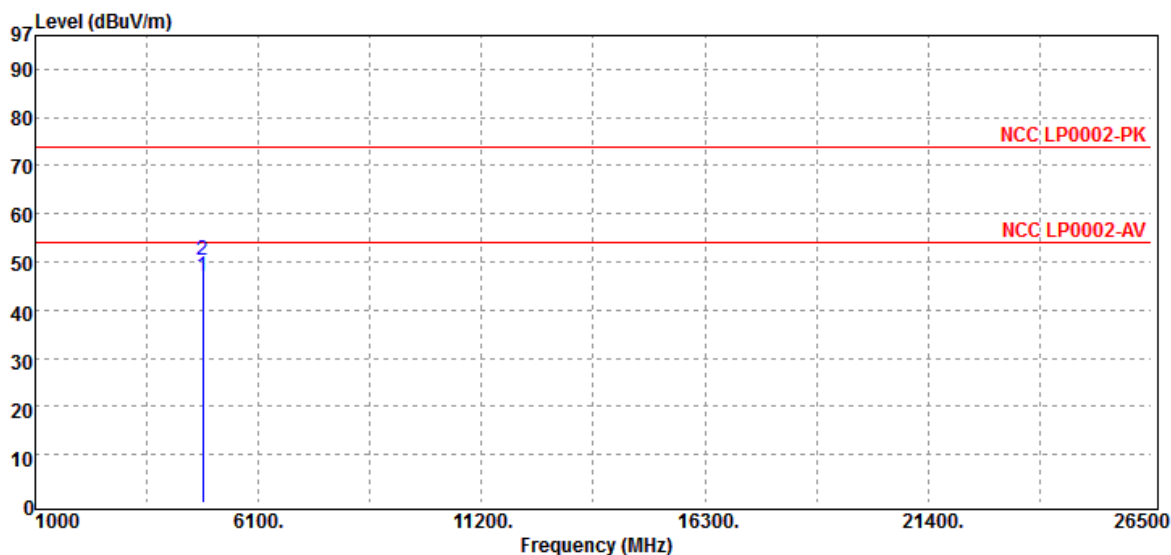
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11b
Fundamental Frequency :2412 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	41.35	5.61	46.96	54.00	-7.04
4824.00	Peak	44.62	5.61	50.23	74.00	-23.77

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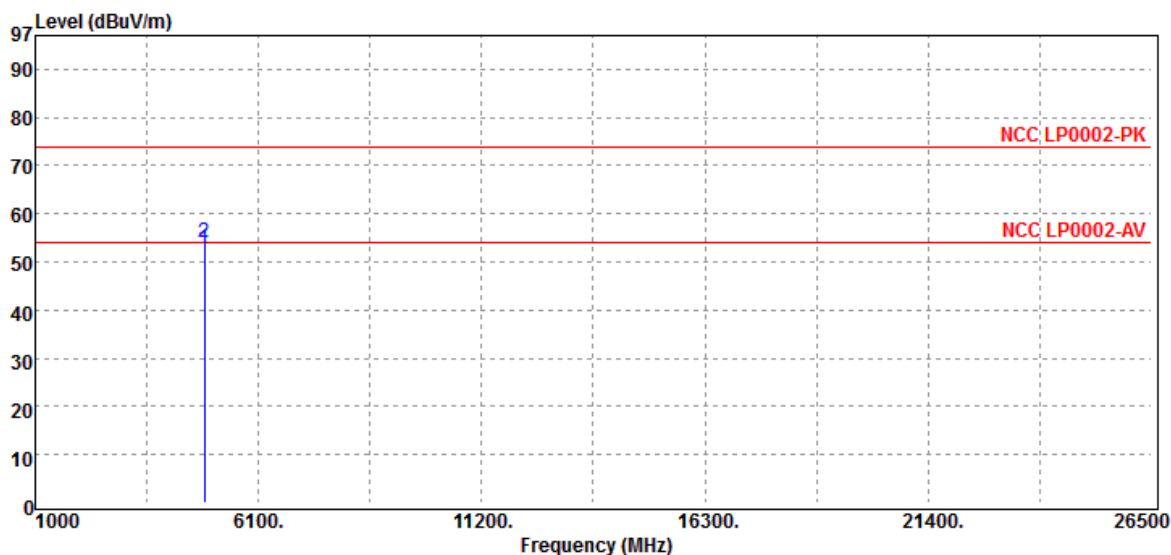
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Member of SGS Group

Operation Band :802.11b
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	46.85	5.85	52.70	54.00	-1.30
4874.00	Peak	48.13	5.85	53.98	74.00	-20.02

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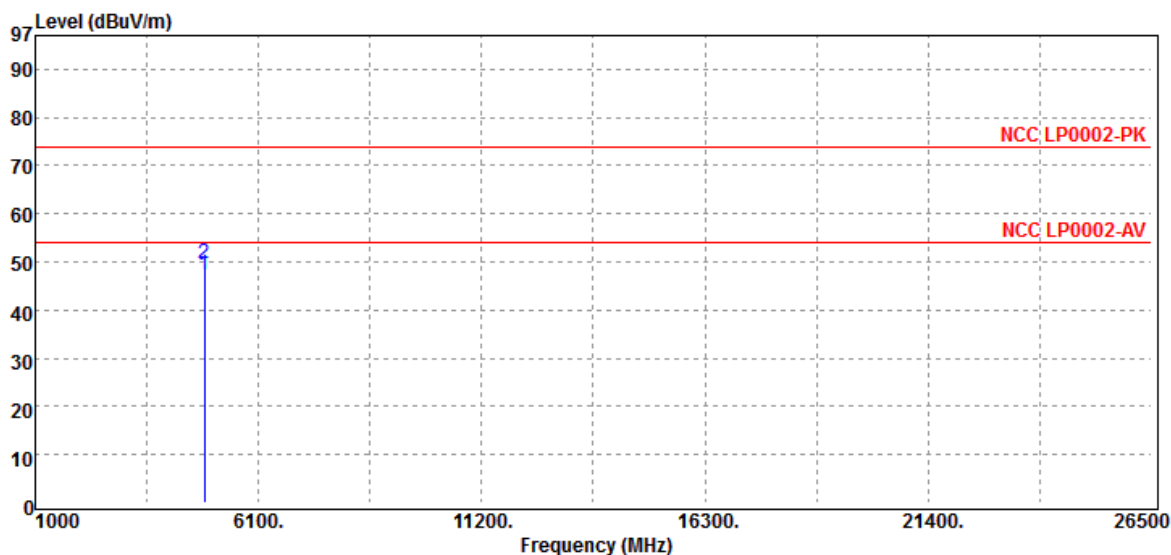
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Operation Band :802.11b
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	41.63	5.85	47.48	54.00	-6.52
4874.00	Peak	43.93	5.85	49.78	74.00	-24.22

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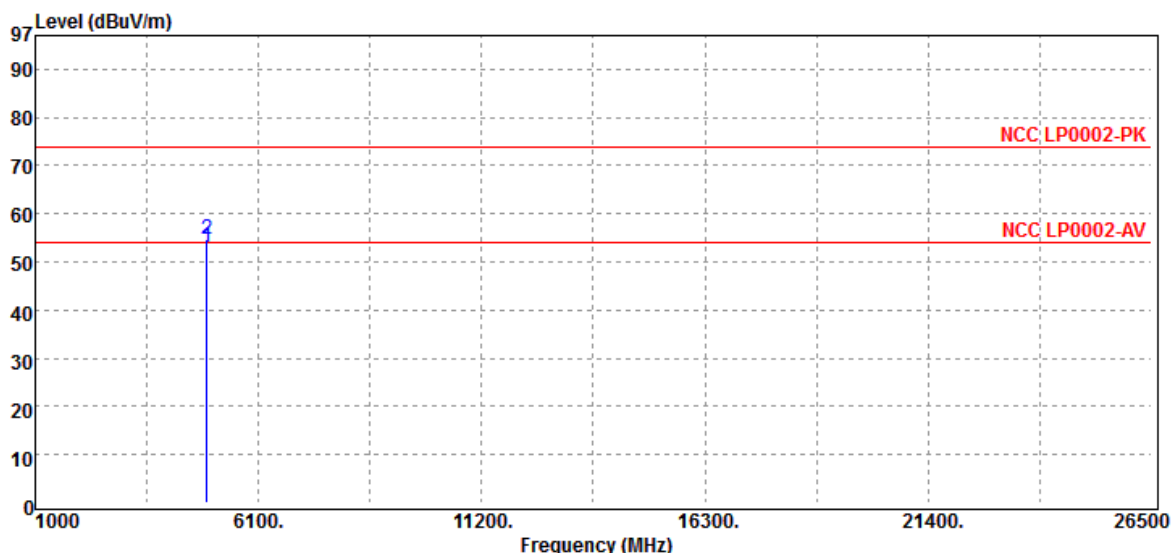
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Member of SGS Group

Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-08-06
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Average	47.11	5.82	52.93	54.00	-1.07
4924.00	Peak	48.75	5.82	54.57	74.00	-19.43

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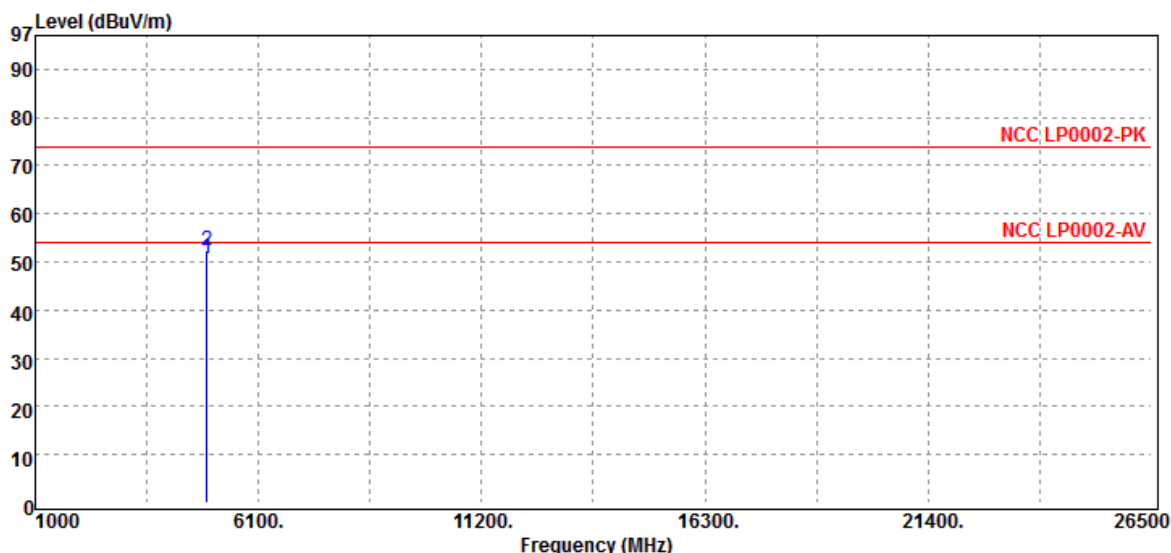
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Member of SGS Group

Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	44.97	5.82	50.79	54.00	-3.21
4924.00	Peak	46.63	5.82	52.45	74.00	-21.55

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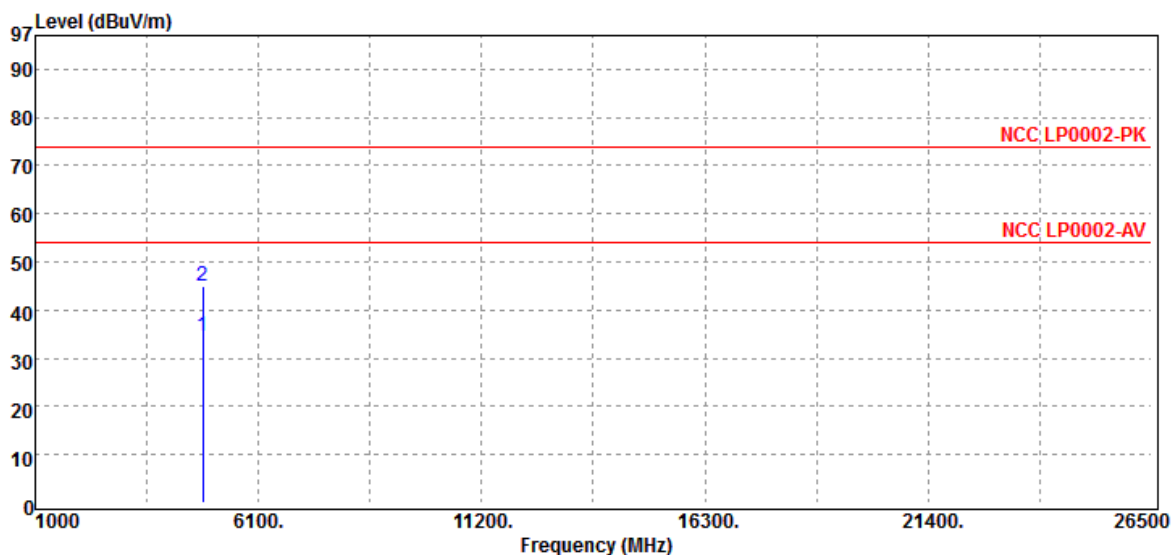
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Member of SGS Group

Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	28.97	5.61	34.58	54.00	-19.42
4824.00	Peak	39.45	5.61	45.06	74.00	-28.94

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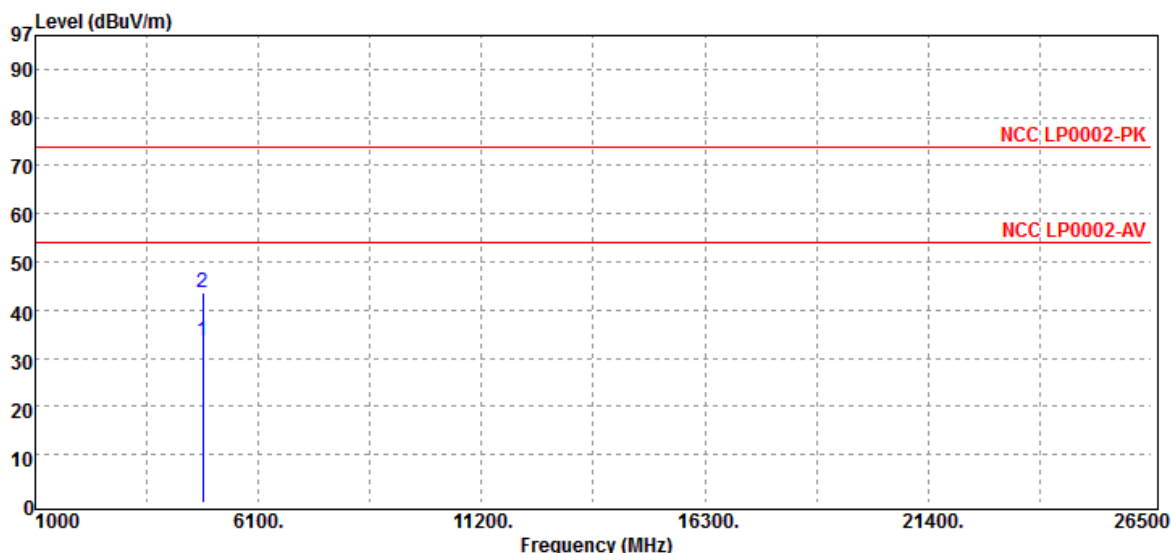
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Member of SGS Group

Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	28.10	5.61	33.71	54.00	-20.29
4824.00	Peak	38.18	5.61	43.79	74.00	-30.21

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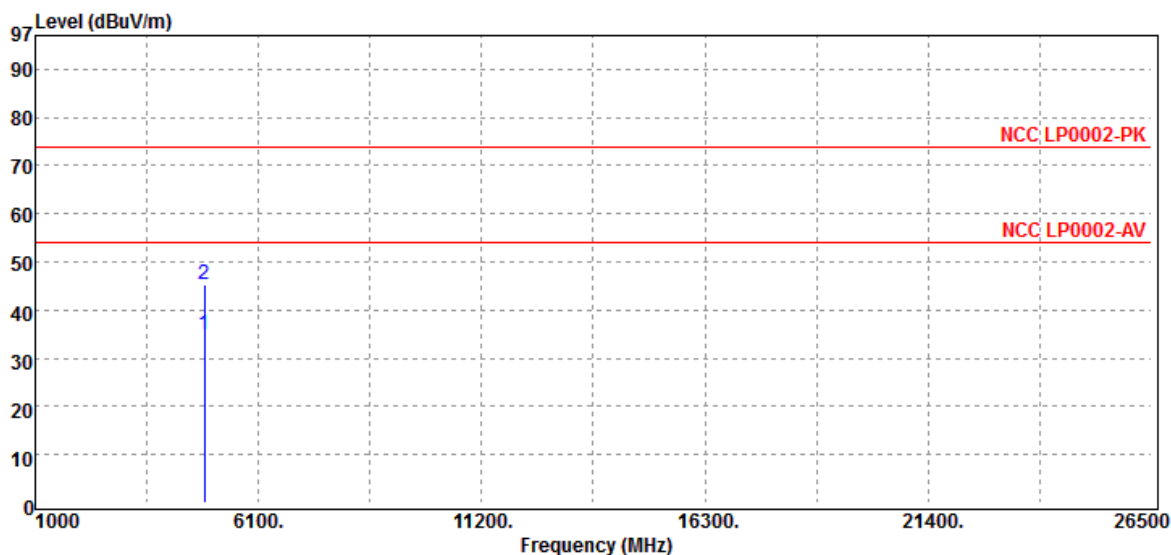
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Operation Band :802.11g
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	28.93	5.85	34.78	54.00	-19.22
4874.00	Peak	39.51	5.85	45.36	74.00	-28.64

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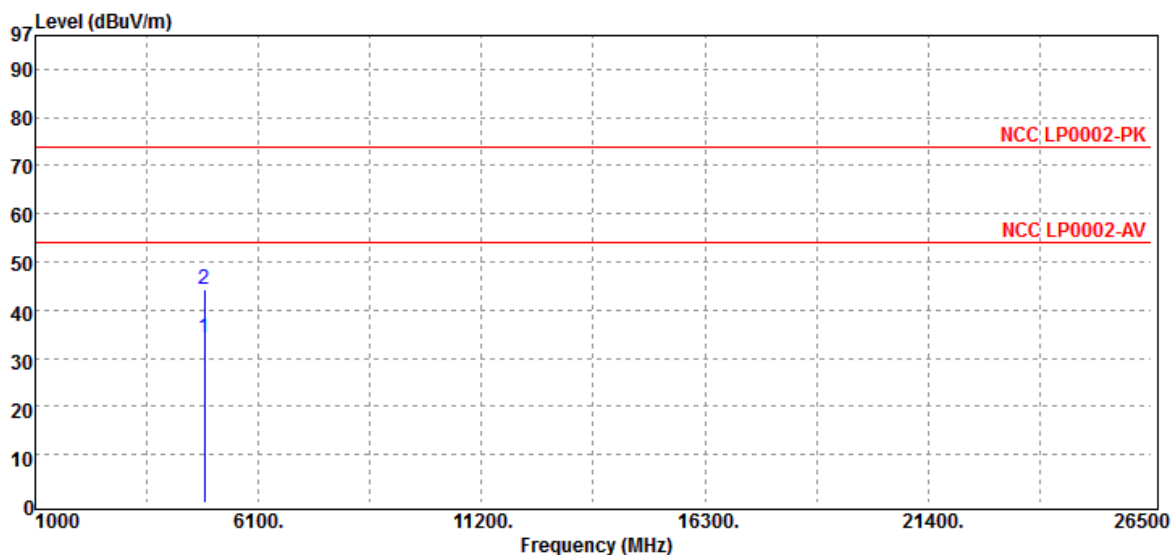
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Operation Band :802.11g
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	28.29	5.85	34.14	54.00	-19.86
4874.00	Peak	38.61	5.85	44.46	74.00	-29.54

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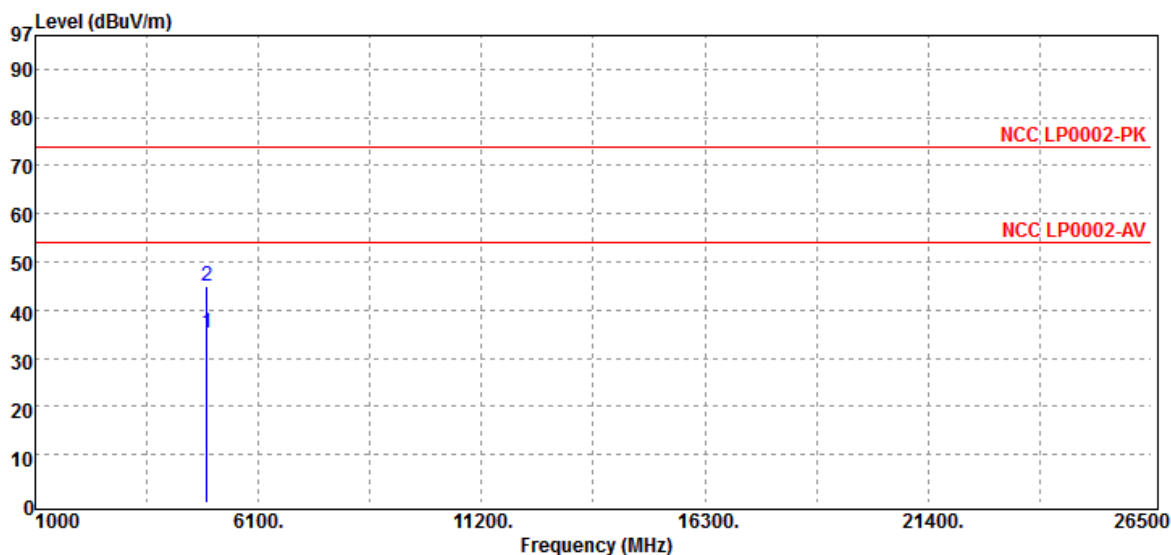
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Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	29.53	5.82	35.35	54.00	-18.65
4924.00	Peak	39.17	5.82	44.99	74.00	-29.01

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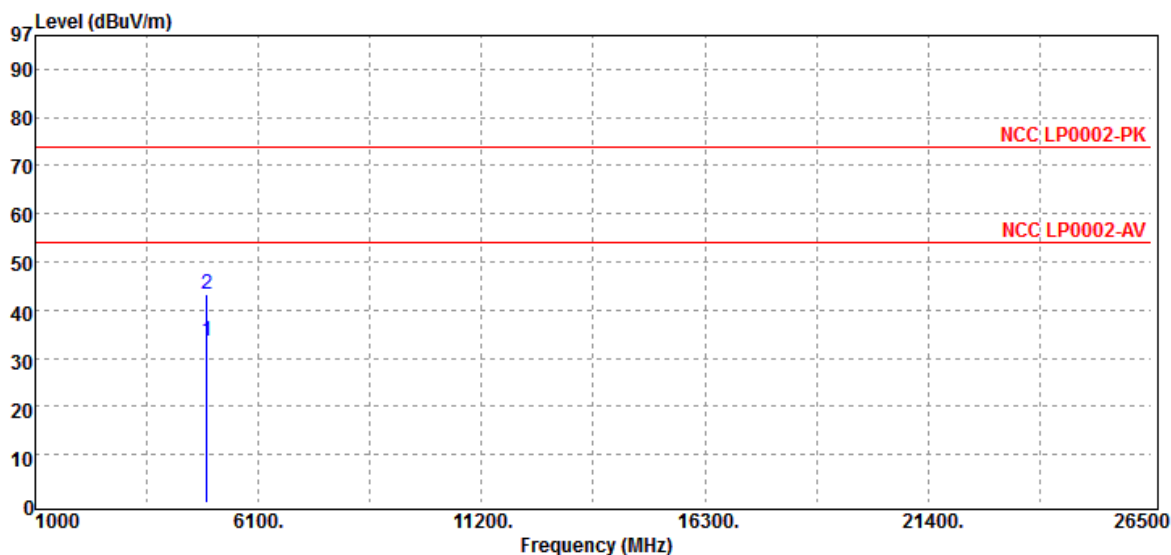
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Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	27.64	5.82	33.46	54.00	-20.54
4924.00	Peak	37.56	5.82	43.38	74.00	-30.62

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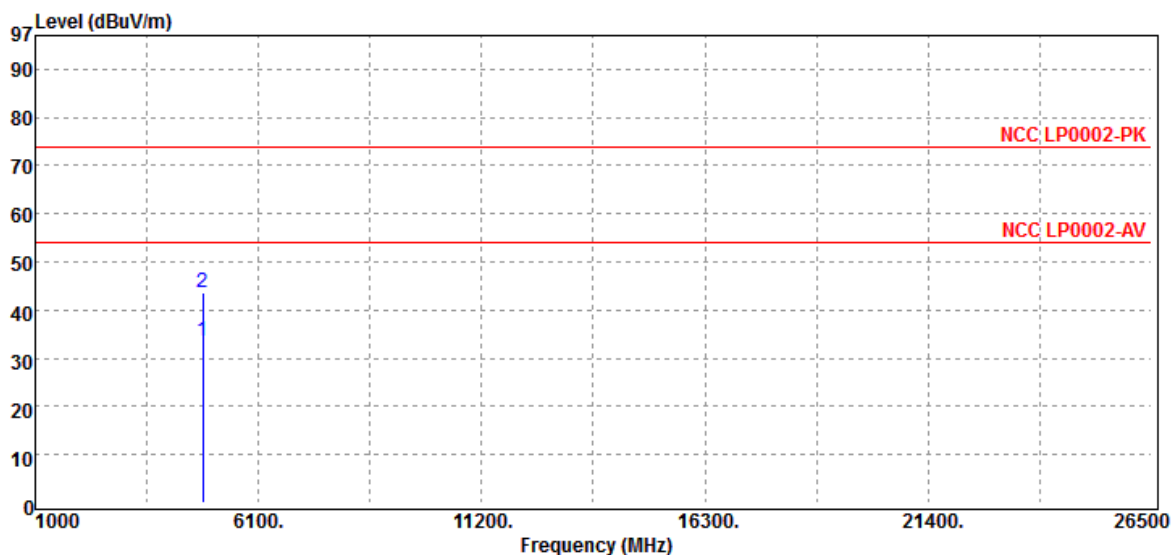
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20
Fundamental Frequency :2412 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	28.02	5.61	33.63	54.00	-20.37
4824.00	Peak	38.03	5.61	43.64	74.00	-30.36

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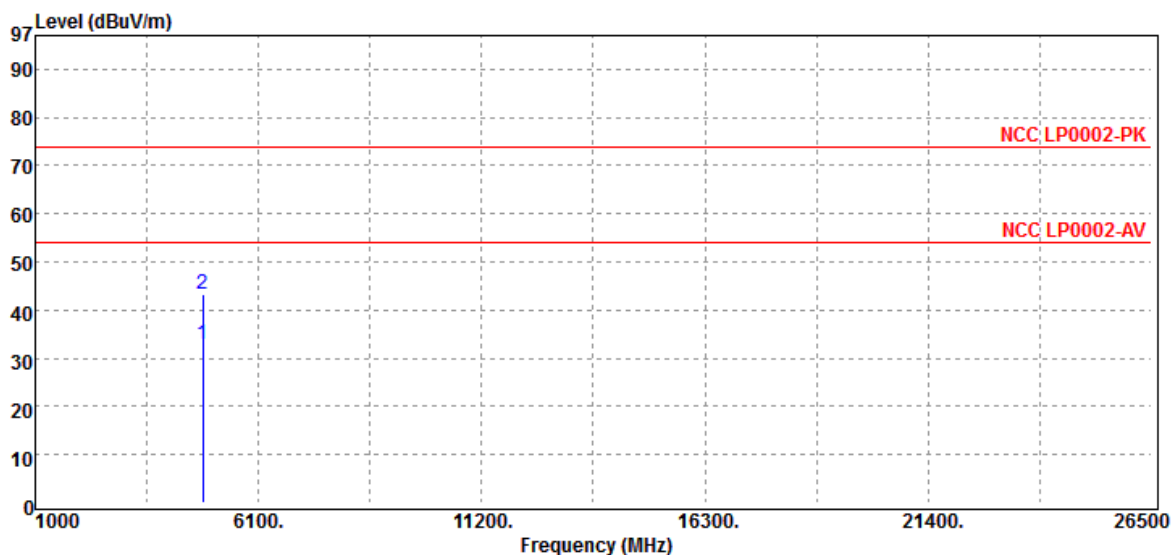
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20
Fundamental Frequency :2412 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	27.39	5.61	33.00	54.00	-21.00
4824.00	Peak	37.54	5.61	43.15	74.00	-30.85

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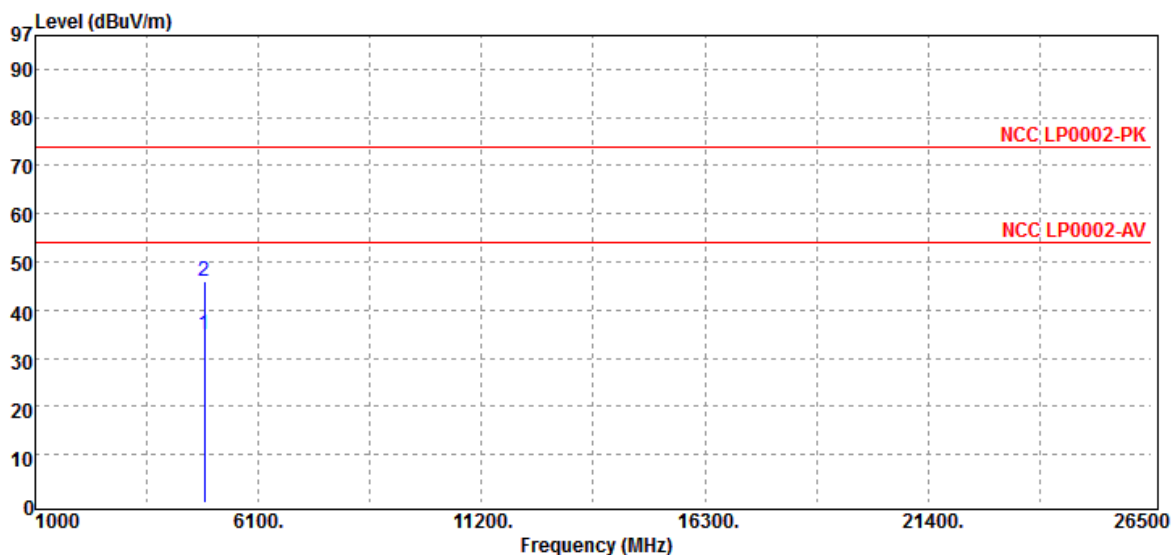
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Member of SGS Group

Operation Band :802.11n20
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	28.99	5.85	34.84	54.00	-19.16
4874.00	Peak	39.97	5.85	45.82	74.00	-28.18

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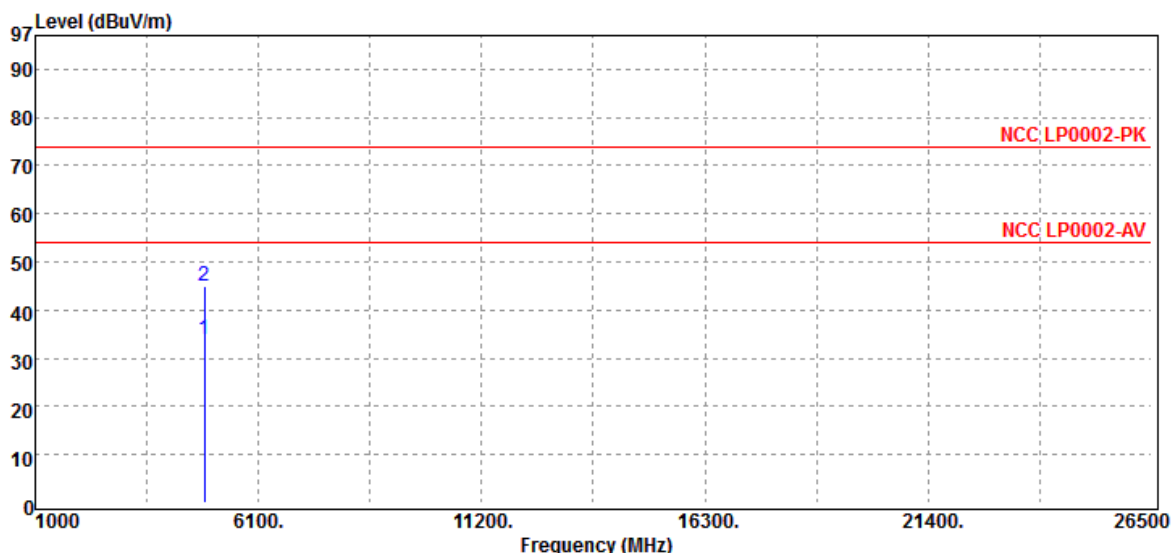
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Member of SGS Group

Operation Band :802.11n20
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	28.07	5.85	33.92	54.00	-20.08
4874.00	Peak	39.19	5.85	45.04	74.00	-28.96

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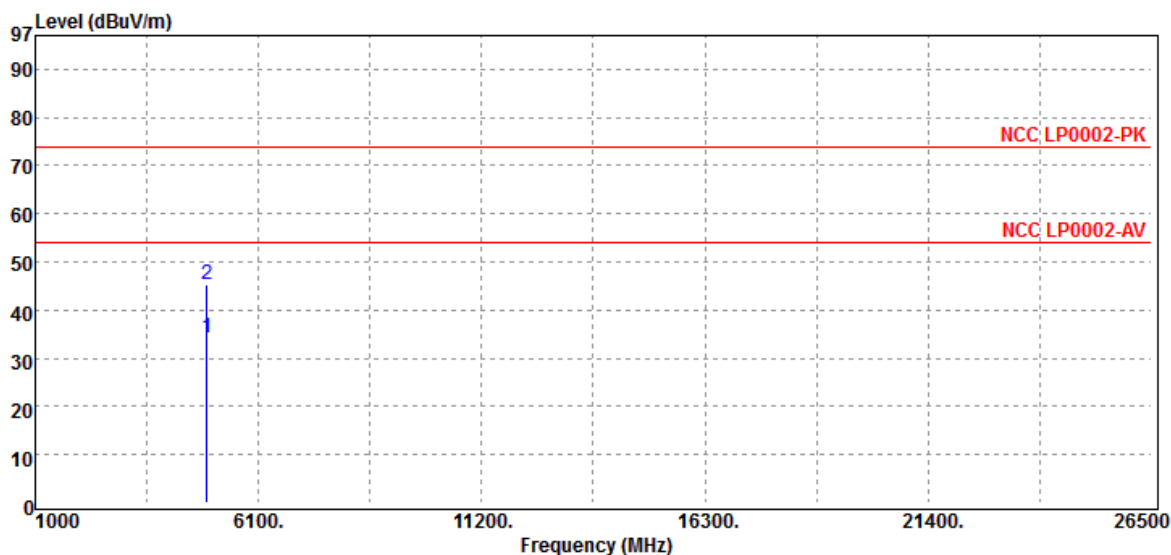
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	28.56	5.82	34.38	54.00	-19.62
4924.00	Peak	39.55	5.82	45.37	74.00	-28.63

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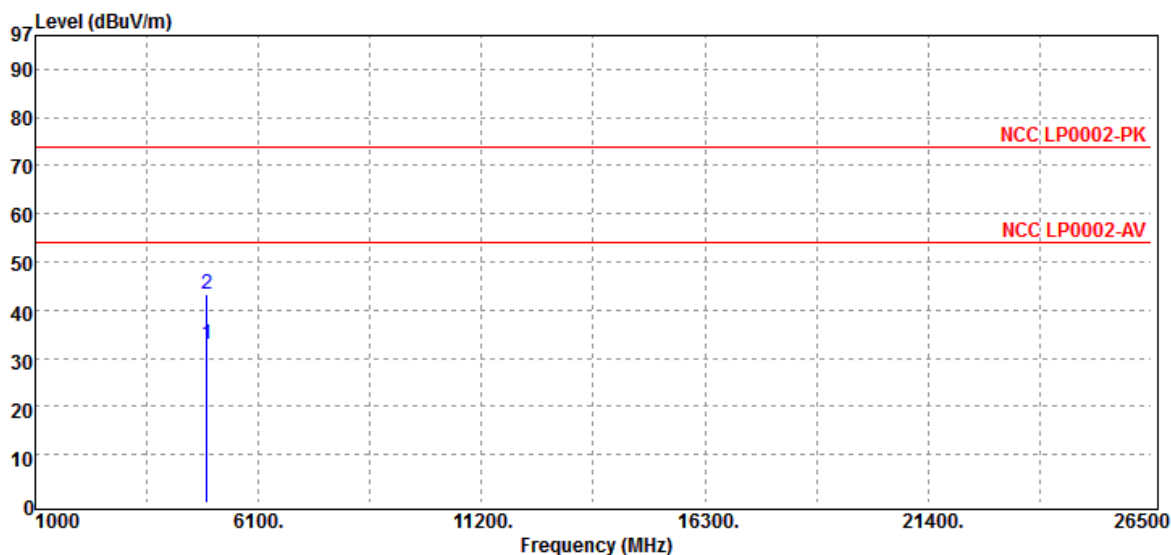
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Member of SGS Group

Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



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	27.02	5.82	32.84	54.00	-21.16
4924.00	Peak	37.49	5.82	43.31	74.00	-30.69

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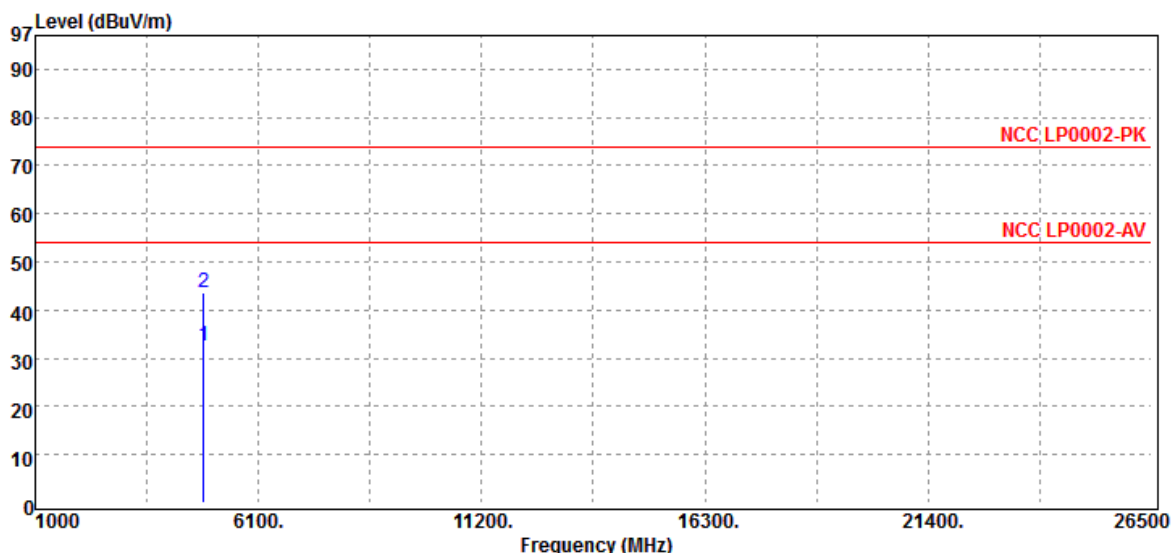
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Member of SGS Group

Operation Band :802.11n40
Fundamental Frequency :2422 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	27.12	5.60	32.72	54.00	-21.28
4844.00	Peak	37.99	5.60	43.59	74.00	-30.41

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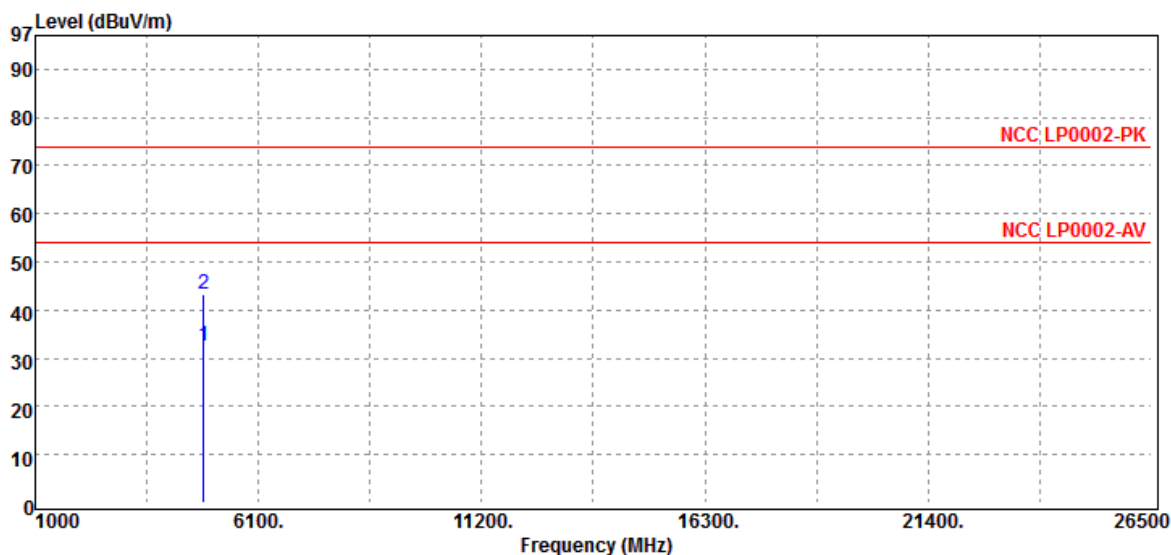
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Member of SGS Group

Operation Band :802.11n40
Fundamental Frequency :2422 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	26.90	5.60	32.50	54.00	-21.50
4844.00	Peak	37.75	5.60	43.35	74.00	-30.65

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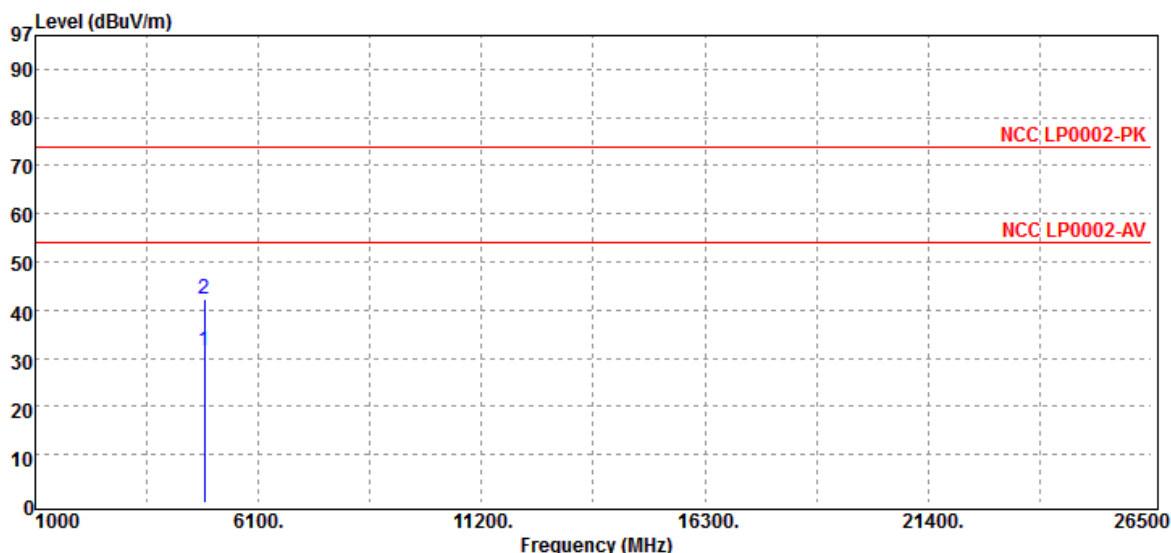
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Member of SGS Group

Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	25.86	5.85	31.71	54.00	-22.29
4874.00	Peak	36.52	5.85	42.37	74.00	-31.63

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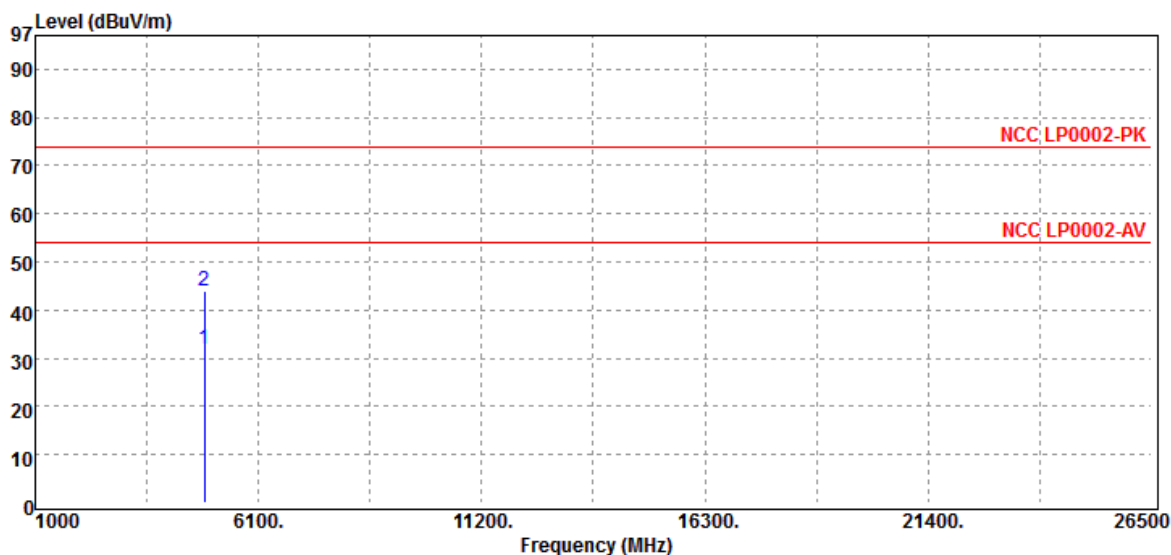
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Member of SGS Group

Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	25.99	5.85	31.84	54.00	-22.16
4874.00	Peak	37.95	5.85	43.80	74.00	-30.20

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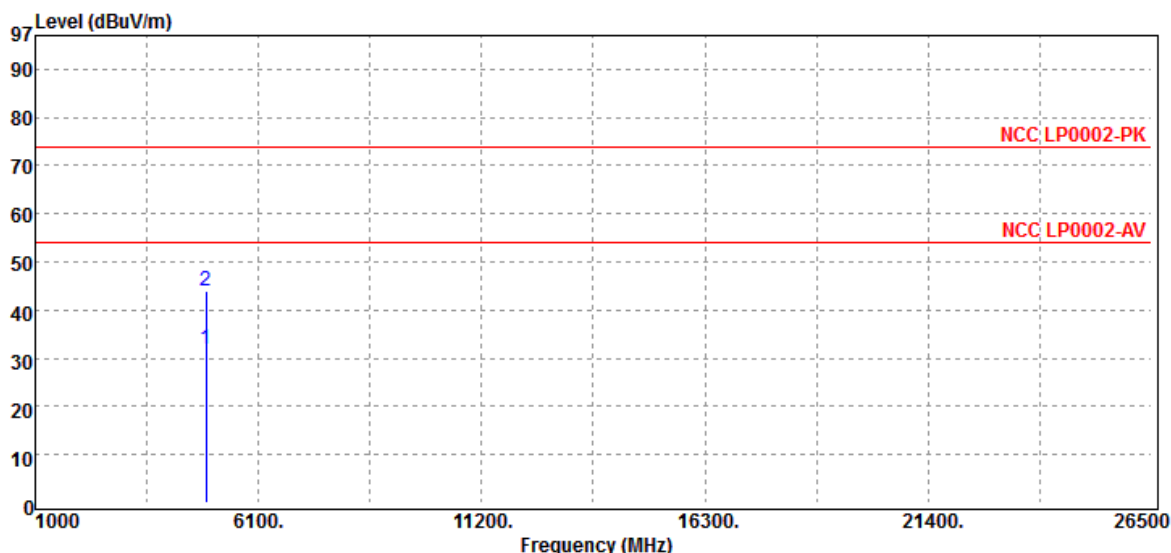
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Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	26.04	5.85	31.89	54.00	-22.11
4904.00	Peak	38.10	5.85	43.95	74.00	-30.05

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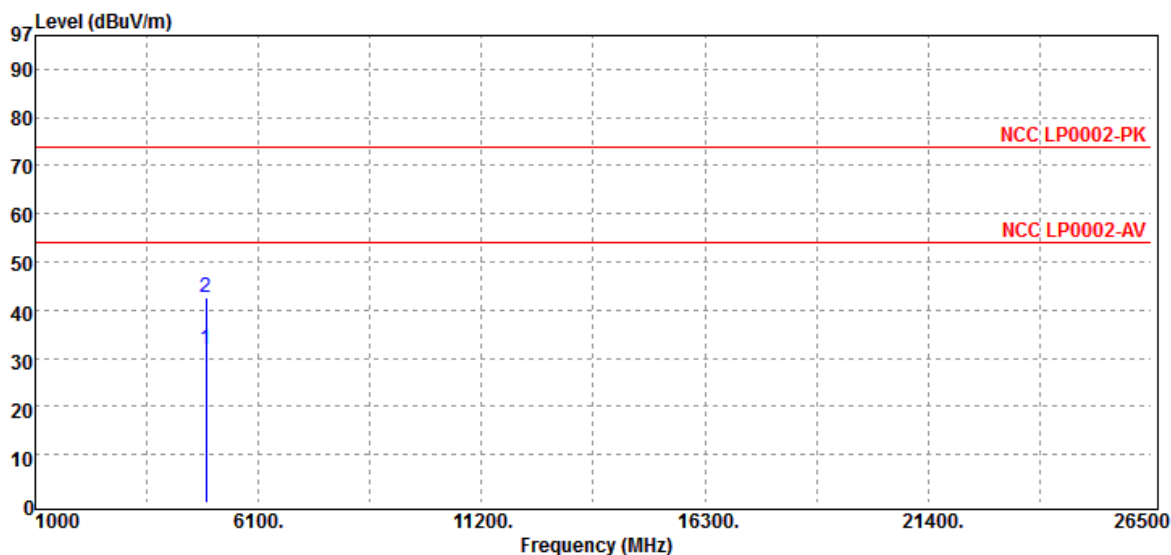
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Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-08-01
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



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	26.00	5.85	31.85	54.00	-22.15
4904.00	Peak	36.90	5.85	42.75	74.00	-31.25

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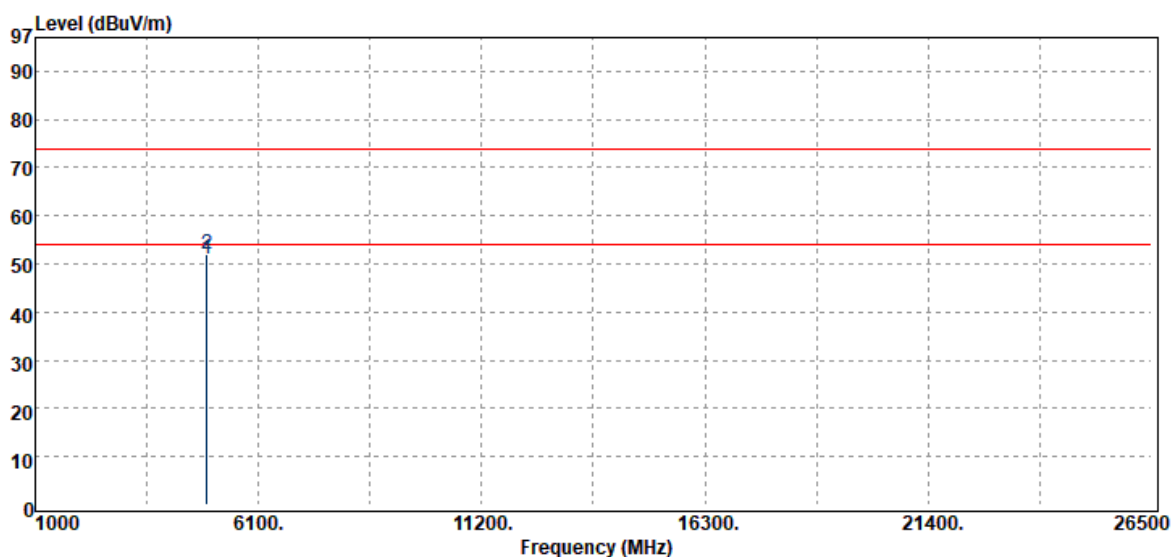
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Spot Check Data :

Model No. : CSE-200+

Report Number	:ER-2018-C0031A-01	Test Date	:2019-10-14
Operation Mode	:802.11b	Temp./Humi.	:24.5/63
Test Channel	:CH11_2462 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Nick
EUT Pol	:E2 Plane		



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	35.73	15.17	50.90	54.00	-3.10
4924.00	Peak	36.70	15.17	51.87	74.00	-22.13

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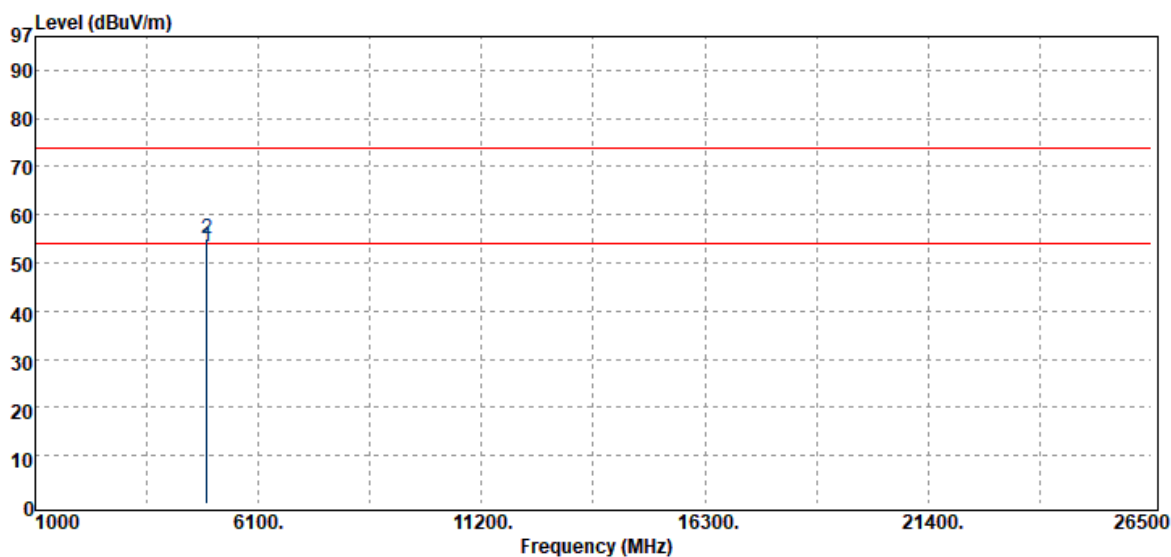
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11b
Test Channel :CH11_2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



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	38.07	15.17	53.24	54.00	-0.76
4924.00	Peak	39.99	15.17	55.16	74.00	-18.84

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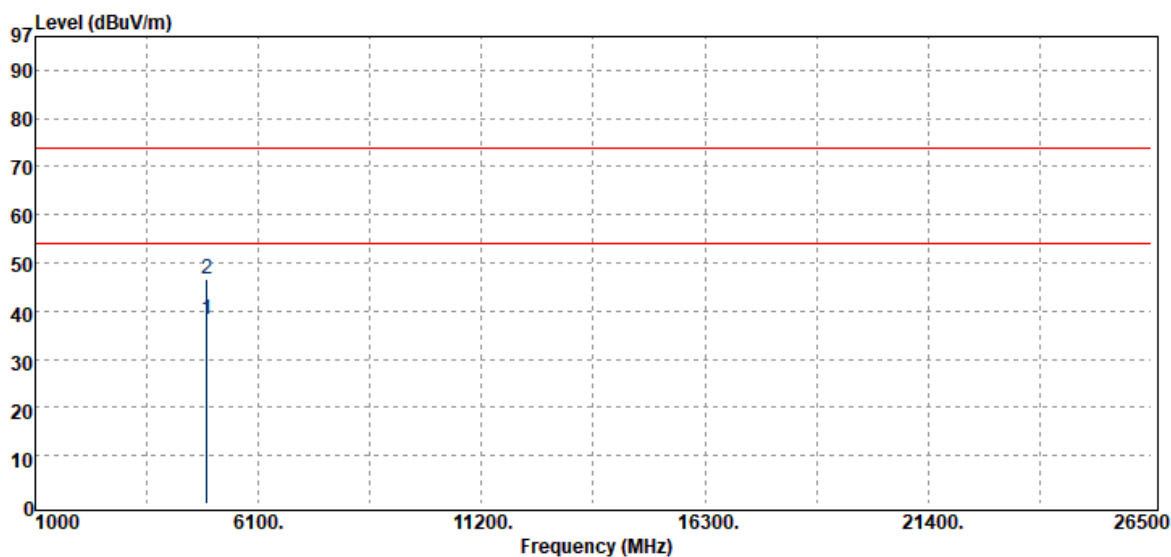
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Report Number	:ER-2018-C0031A-01	Test Date	:2019-10-14
Operation Mode	:802.11g	Temp./Humi.	:24.5/63
Test Channel	:CH11_2462 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Nick
EUT Pol	:E2 Plane		



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	23.20	15.17	38.37	54.00	-15.63
4924.00	Peak	31.50	15.17	46.67	74.00	-27.33

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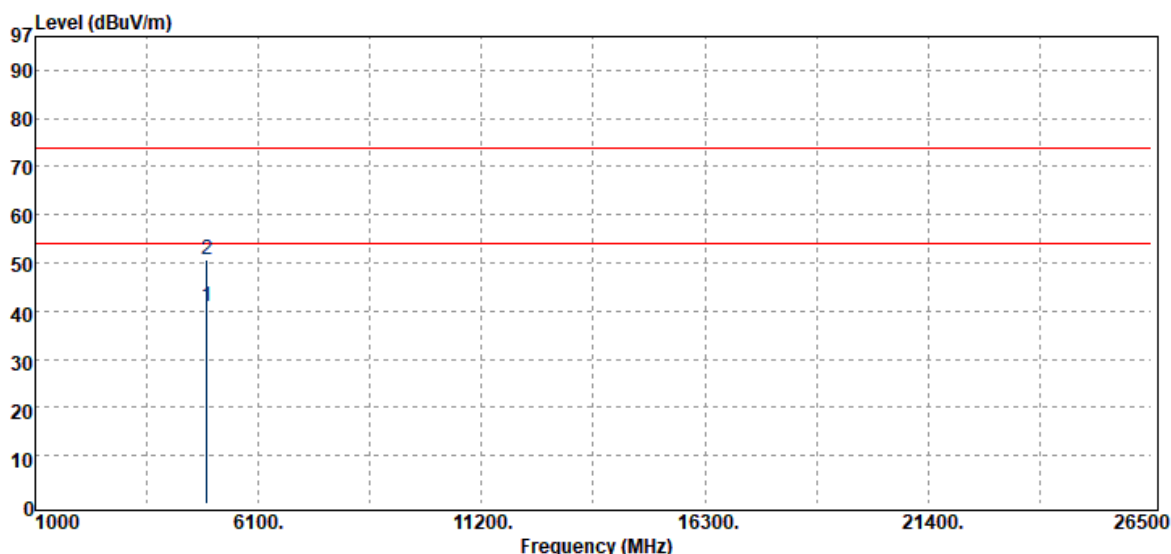
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11g
Test Channel :CH11_2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



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	25.78	15.17	40.95	54.00	-13.05
4924.00	Peak	35.41	15.17	50.58	74.00	-23.42

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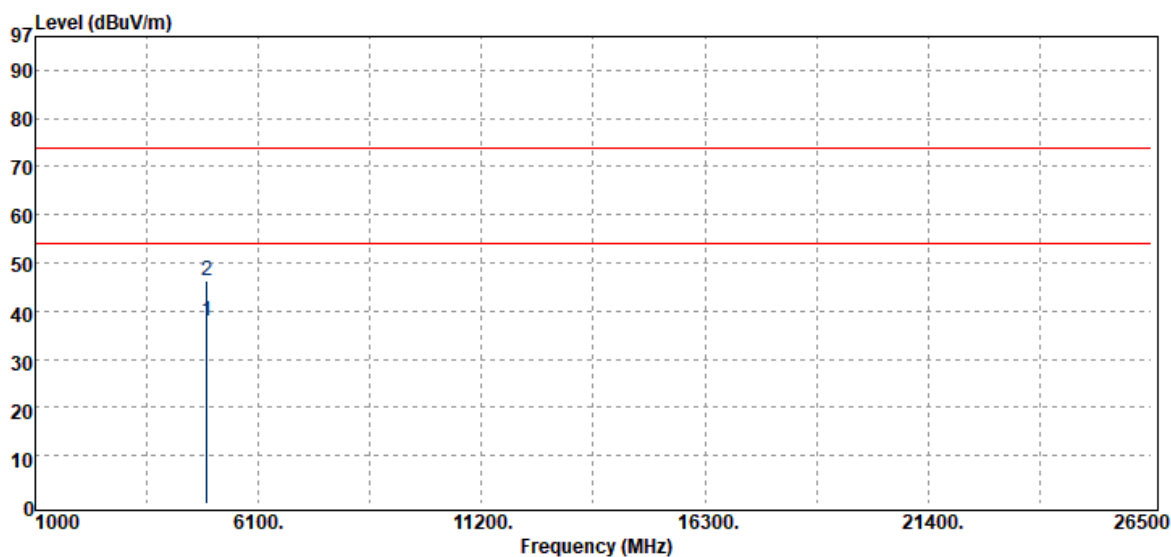
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Report Number	:ER-2018-C0031A-01	Test Date	:2019-10-14
Operation Mode	:802.11n20	Temp./Humi.	:24.5/63
Test Channel	:CH11_2462 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Nick
EUT Pol	:E2 Plane		



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	22.70	15.17	37.87	54.00	-16.13
4924.00	Peak	31.26	15.17	46.43	74.00	-27.57

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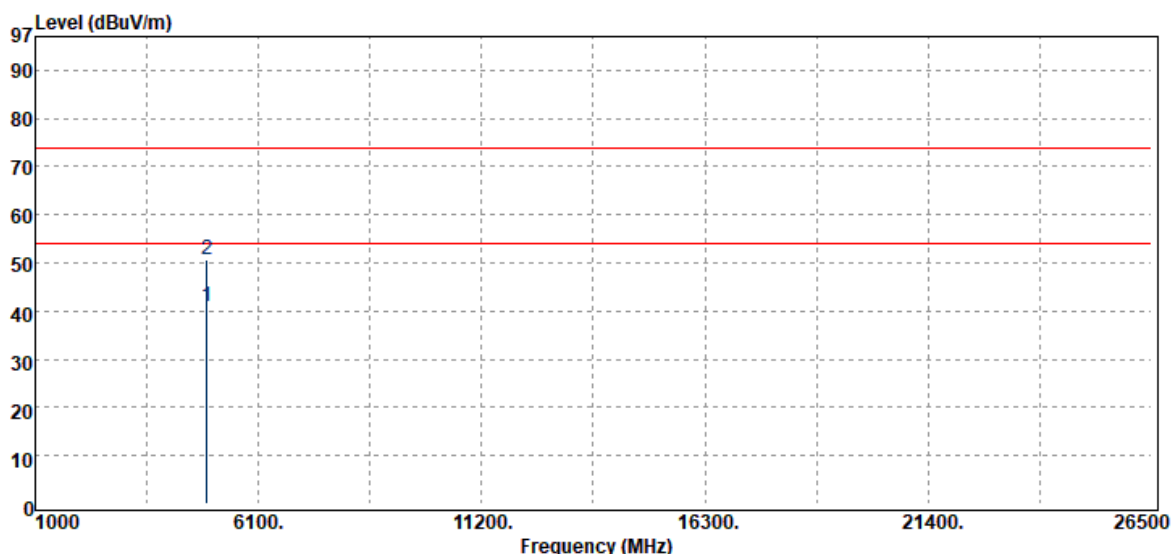
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11n20
Test Channel :CH11_2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



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	25.76	15.17	40.93	54.00	-13.07
4924.00	Peak	35.45	15.17	50.62	74.00	-23.38

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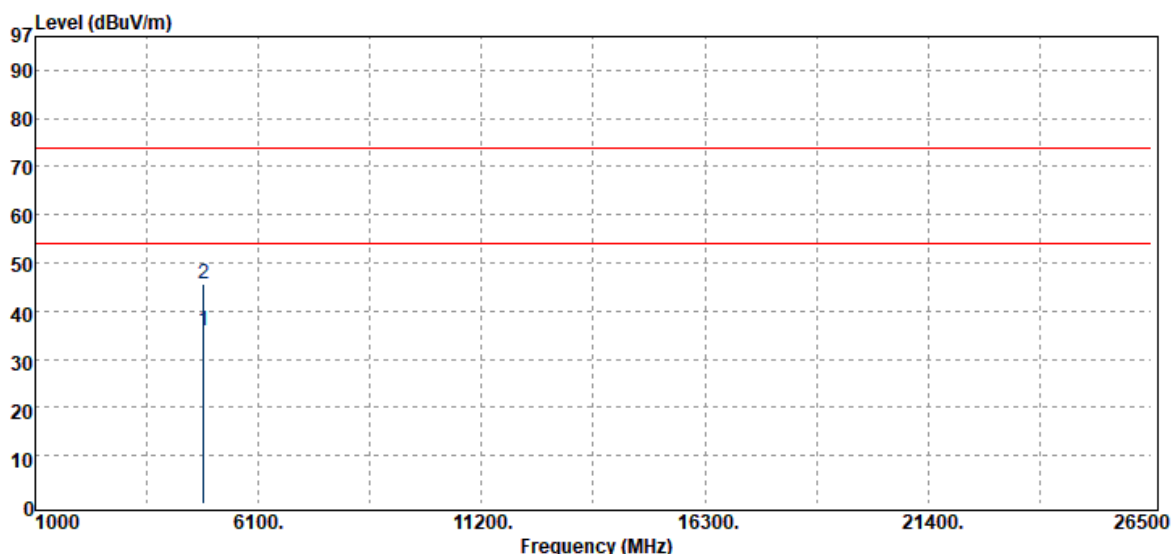
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Report Number	:ER-2018-C0031A-01	Test Date	:2019-10-14
Operation Mode	:802.11n40	Temp./Humi.	:24.5/63
Test Channel	:CH03_2422 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:E2 Plane		



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	20.88	14.87	35.75	54.00	-18.25
4844.00	Peak	30.91	14.87	45.78	74.00	-28.22

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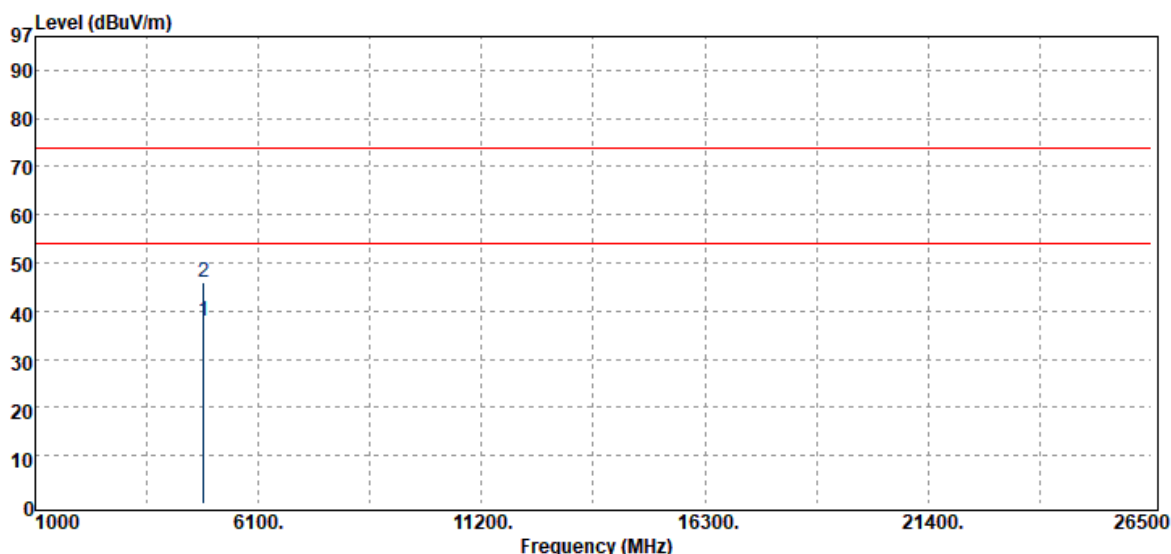
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11n40
Test Channel :CH03_2422 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



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	22.93	14.87	37.80	54.00	-16.20
4844.00	Peak	31.19	14.87	46.06	74.00	-27.94

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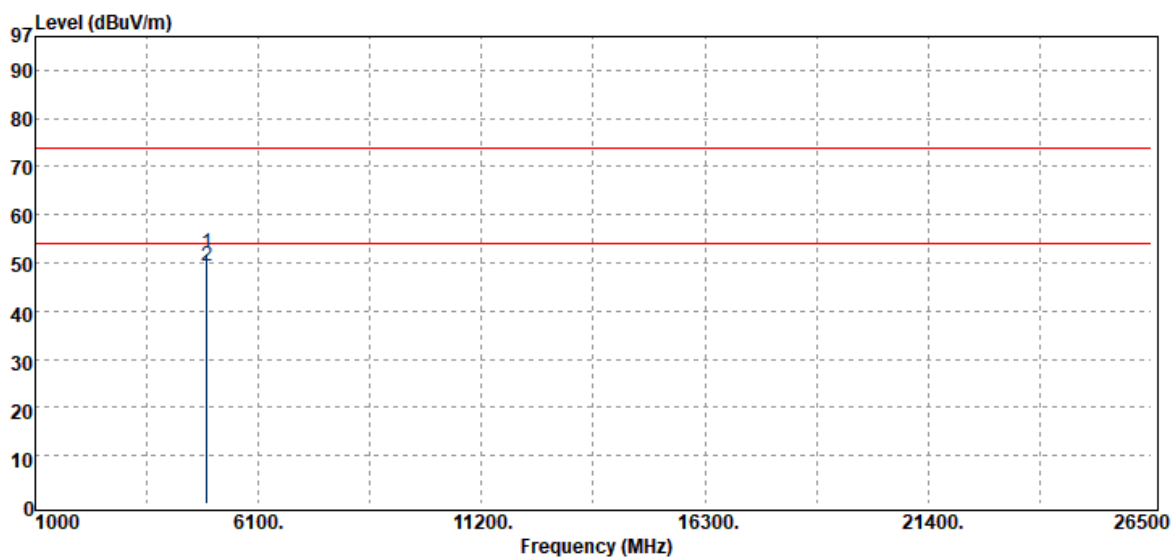
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Model No. : C 5010S

Report Number	:ER-2018-C0031A-01	Test Date	:2019-10-14
Operation Mode	:802.11b	Temp./Humi.	:24.5/63
Test Channel	:CH11_2462 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Nick
EUT Pol	:E2 Plane		



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	Peak	36.99	15.17	52.16	74.00	-21.84
4924.00	Average	34.04	15.17	49.21	54.00	-4.79

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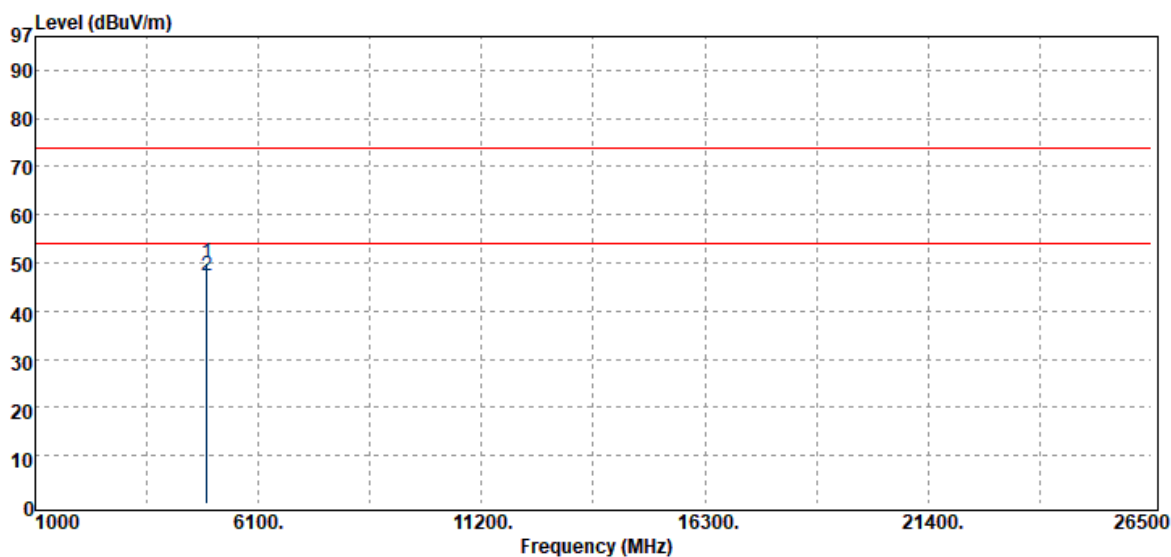
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11b
Test Channel :CH11_2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



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	Peak	34.97	15.17	50.14	74.00	-23.86
4924.00	Average	32.27	15.17	47.44	54.00	-6.56

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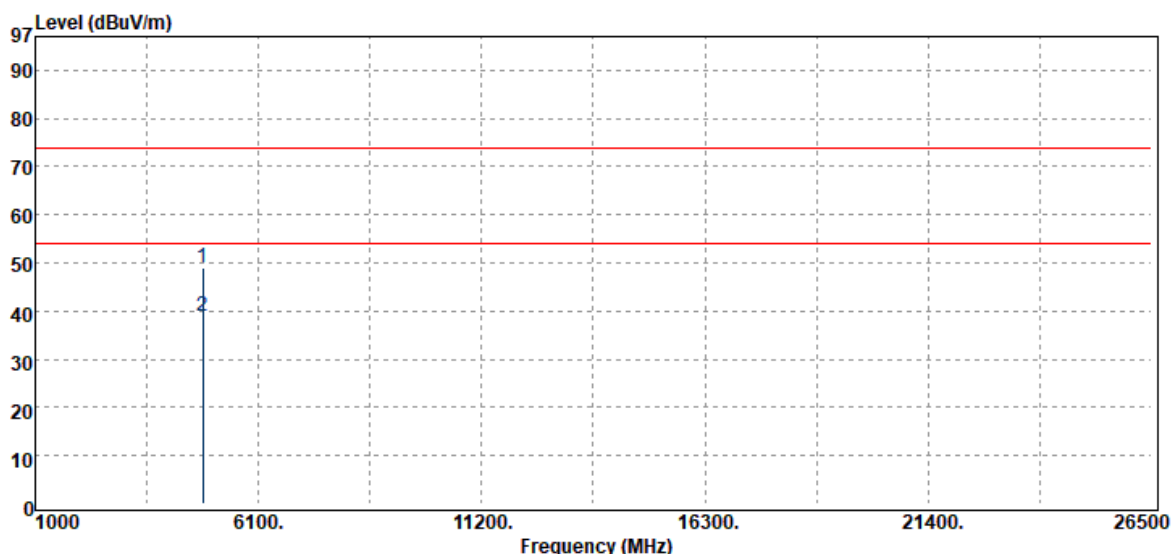
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11g
Test Channel :CH01_2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :VERTICAL
Engineer :Nick



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	Peak	34.29	14.74	49.03	74.00	-24.97
4824.00	Average	24.26	14.74	39.00	54.00	-15.00

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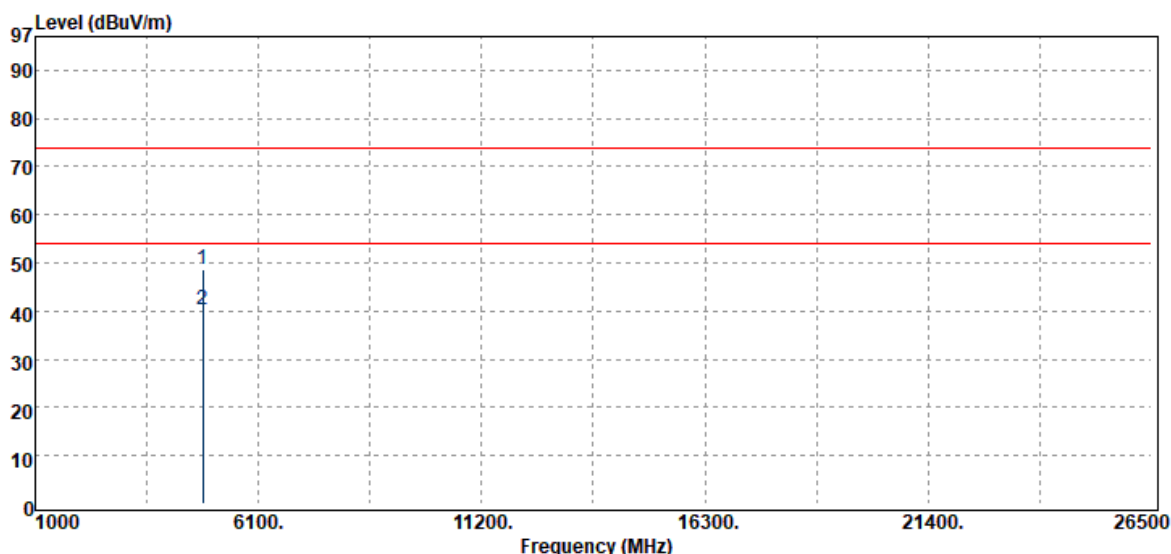
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11g
Test Channel :CH01_2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Peak	33.91	14.74	48.65	74.00	-25.35
4824.00	Average	25.69	14.74	40.43	54.00	-13.57

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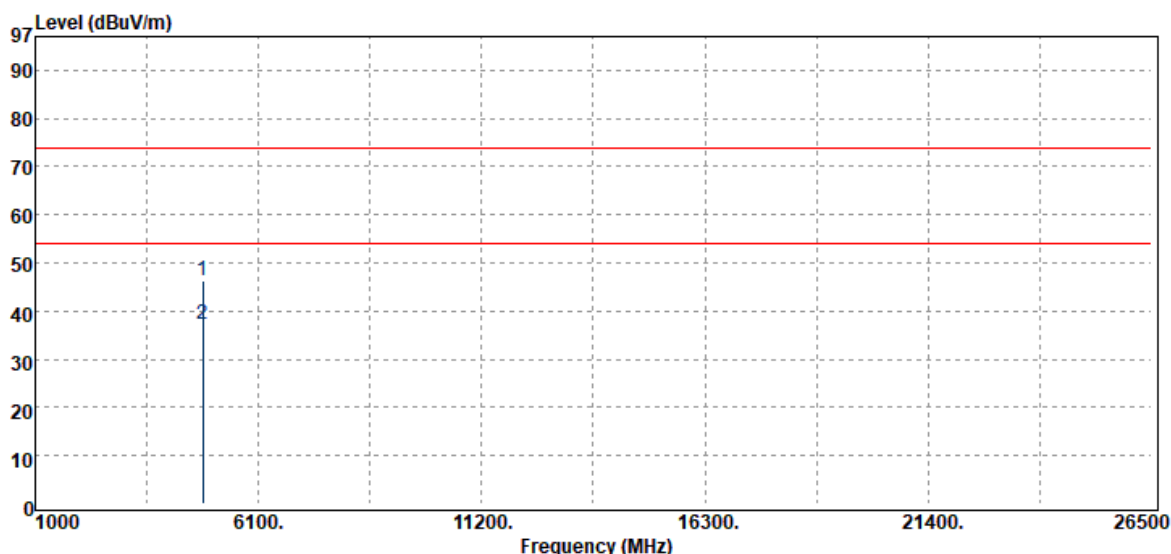
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Report Number	:ER-2018-C0031A-01	Test Date	:2019-10-14
Operation Mode	:802.11n20	Temp./Humi.	:24.5/63
Test Channel	:CH01_2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:E2 Plane		



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	Peak	31.45	14.74	46.19	74.00	-27.81
4824.00	Average	22.53	14.74	37.27	54.00	-16.73

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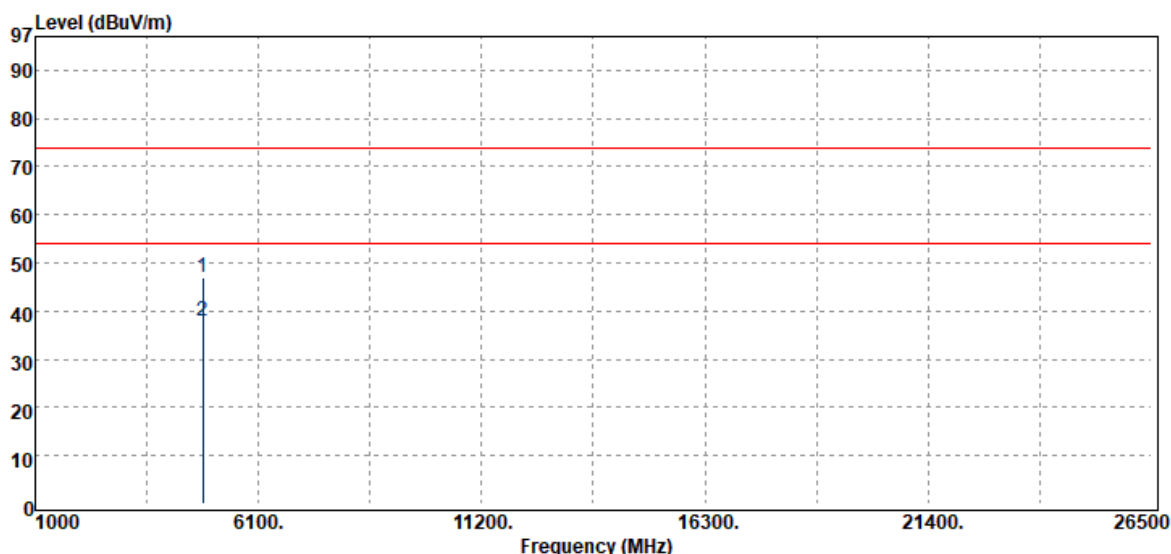
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11n20
Test Channel :CH01_2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



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	Peak	32.15	14.74	46.89	74.00	-27.11
4824.00	Average	23.14	14.74	37.88	54.00	-16.12

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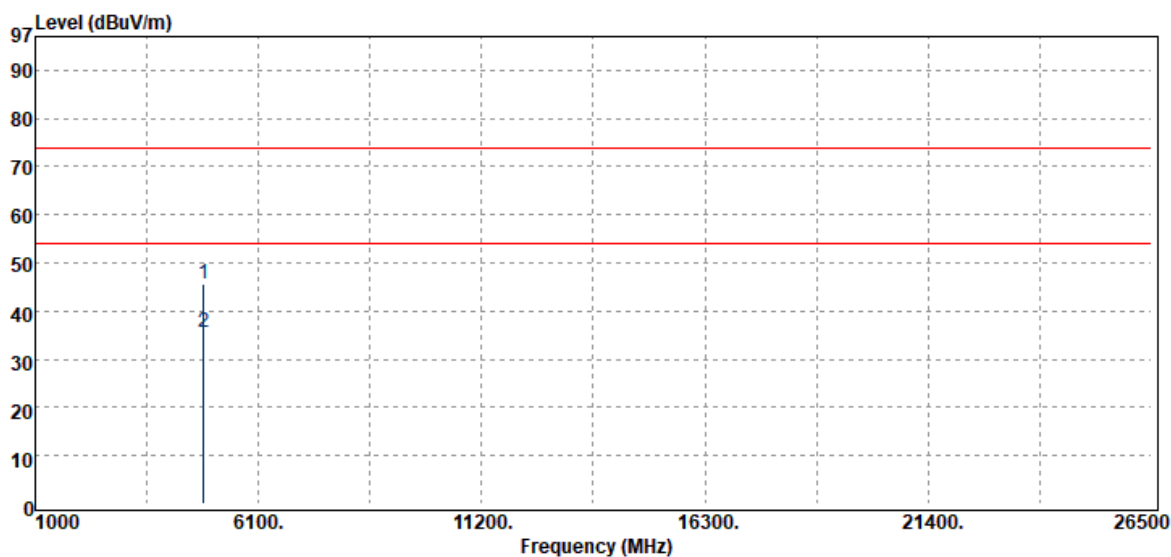
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Report Number	:ER-2018-C0031A-01	Test Date	:2019-10-14
Operation Mode	:802.11n40	Temp./Humi.	:24.5/63
Test Channel	:CH03_2422 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:E2 Plane		



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	Peak	30.77	14.87	45.64	74.00	-28.36
4844.00	Average	20.87	14.87	35.74	54.00	-18.26

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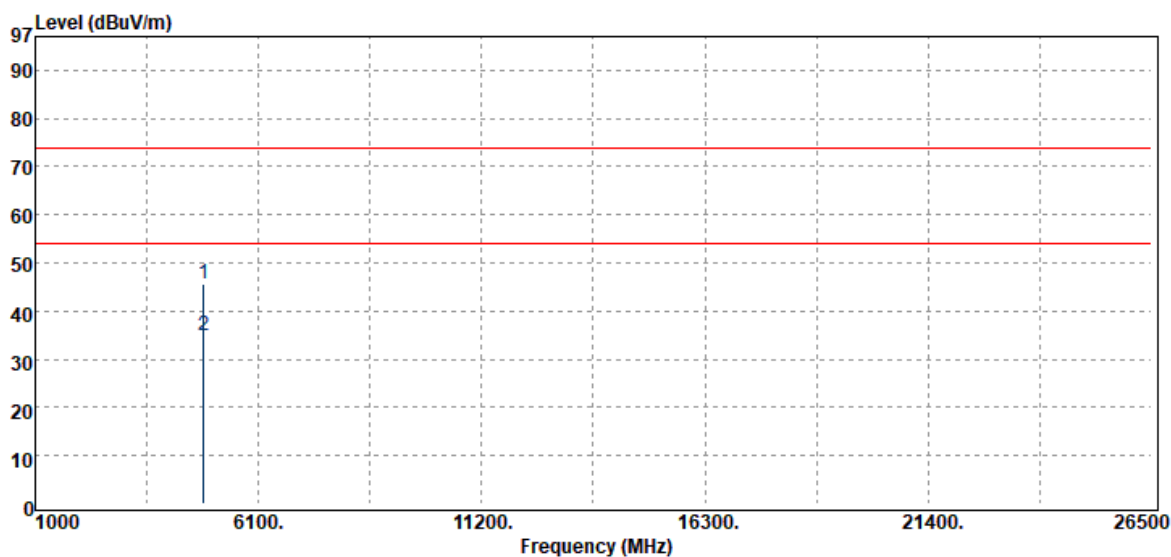
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Report Number :ER-2018-C0031A-01
Operation Mode :802.11n40
Test Channel :CH03_2422 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-10-14
Temp./Humi. :24.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



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	Peak	30.84	14.87	45.71	74.00	-28.29
4844.00	Average	20.02	14.87	34.89	54.00	-19.11

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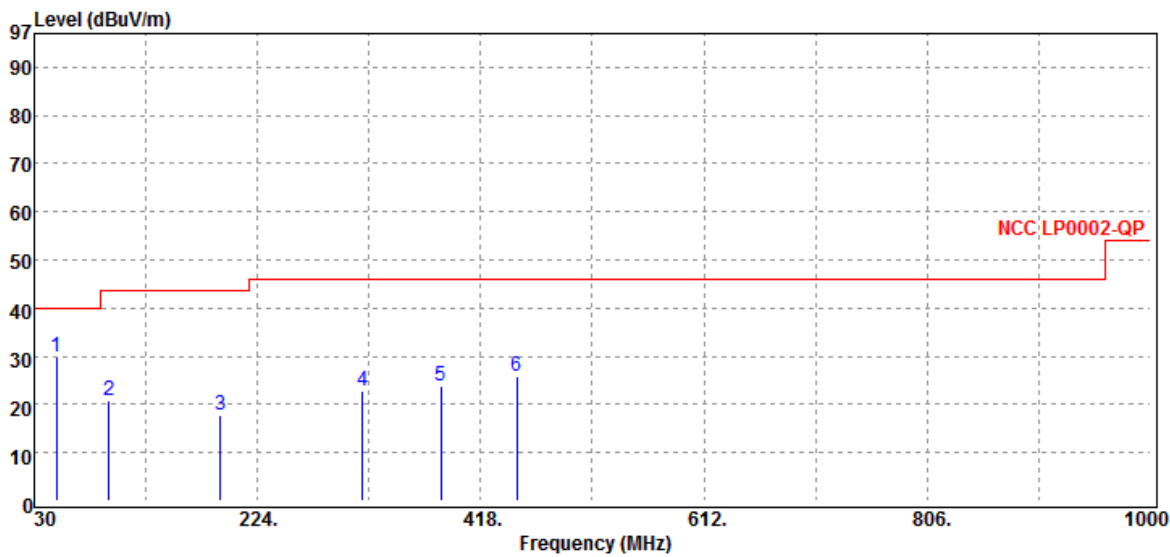
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6.5.3 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Operation Band	:802.11g	Test Date	:2018-12-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Rx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
49.40	Peak	37.33	-7.48	29.85	40.00	-10.15
94.99	Peak	33.86	-13.05	20.81	43.50	-22.69
191.99	Peak	26.80	-9.03	17.77	43.50	-25.73
315.18	Peak	27.94	-5.23	22.71	46.00	-23.29
383.08	Peak	27.56	-3.79	23.77	46.00	-22.23
449.04	Peak	28.69	-2.72	25.97	46.00	-20.03

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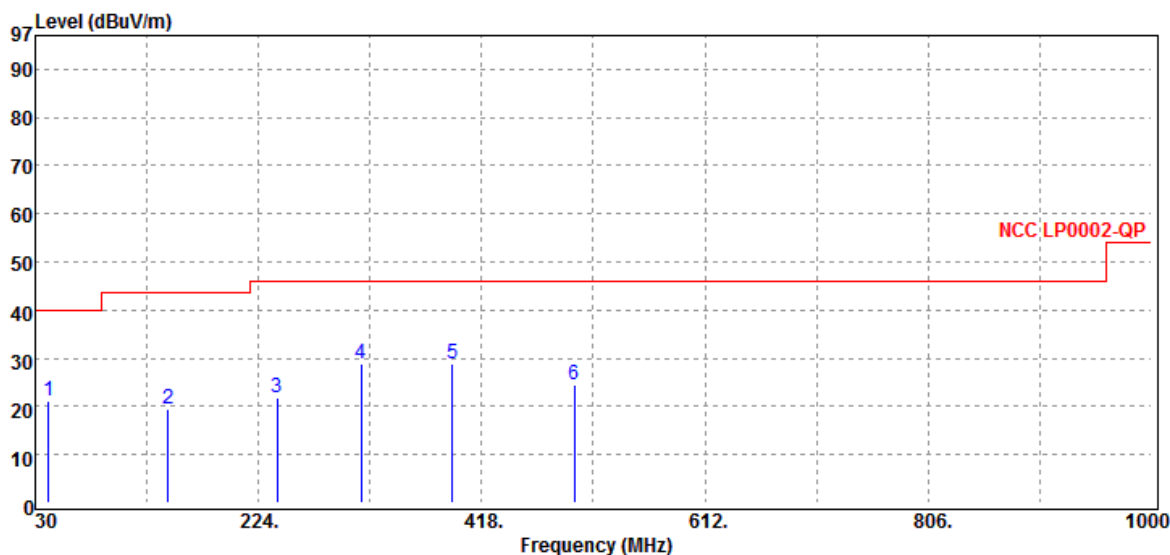
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Operation Band :802.11g
Fundamental Frequency :2437 MHz
Operation Mode :Rx CH MID
EUT Pol. :E2 Plane

Test Date :2018-12-11
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
41.64	Peak	29.21	-8.12	21.09	40.00	-18.91
145.43	Peak	27.19	-7.65	19.54	43.50	-23.96
240.49	Peak	29.76	-7.79	21.97	46.00	-24.03
313.24	Peak	34.16	-5.24	28.92	46.00	-17.08
392.78	Peak	32.42	-3.48	28.94	46.00	-17.06
498.51	Peak	26.91	-2.53	24.38	46.00	-21.62

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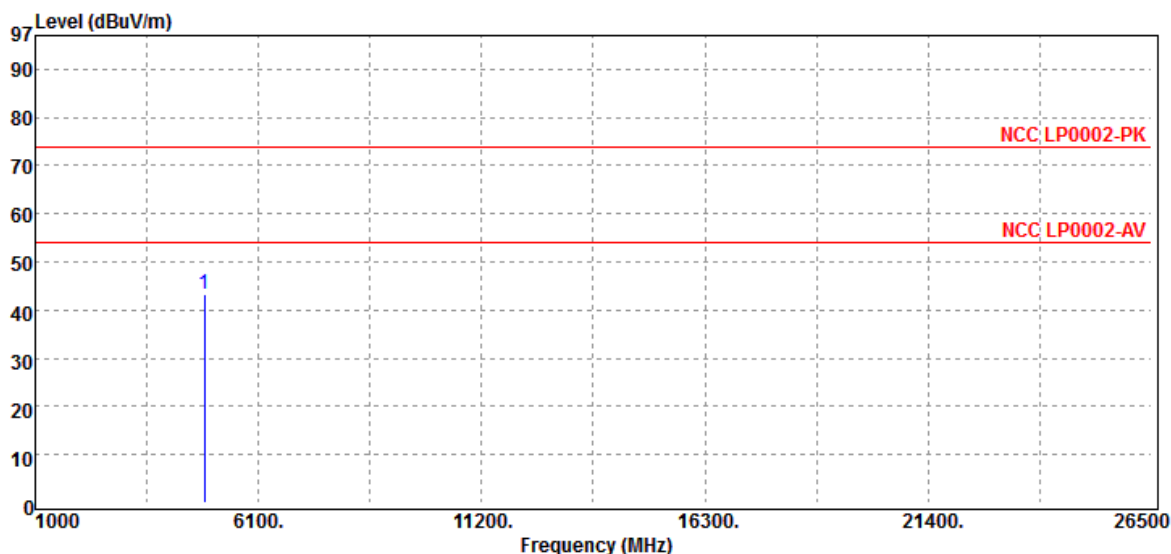
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6.5.4 接收機場強輻射之量測結果(1GHz 以上) (最差模式)

Operation Band	:802.11g	Test Date	:2018-12-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Rx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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	Peak	37.51	5.85	43.36	74.00	-30.64

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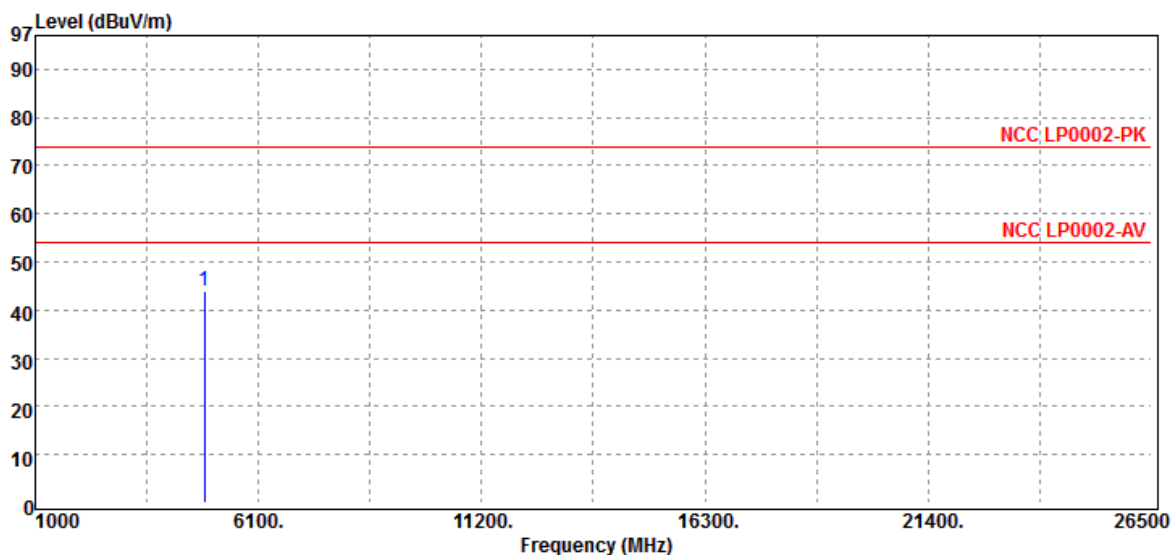
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Operation Band :802.11g
Fundamental Frequency :2437 MHz
Operation Mode :Rx CH MID
EUT Pol. :E2 Plane

Test Date :2018-12-11
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Peak	38.00	5.85	43.85	74.00	-30.15

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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	Model No.	發射頻帶(MHz)	天線增益(dBi)
PCB	INPAQ	WA-P-LB-02-533	2412-2462	2.09

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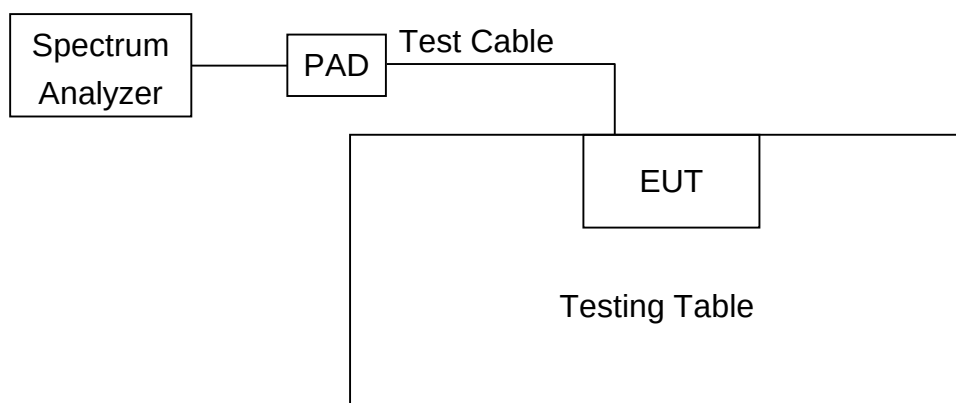
8 發射頻寬之要求

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



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8.3 量測結果

802.11b Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	9080	> 500	PASS
2437	9090	> 500	PASS
2462	10050	> 500	PASS

802.11g Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	15170	> 500	PASS
2437	15160	> 500	PASS
2462	15160	> 500	PASS

802.11n_HT20M Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2412	15160	> 500	PASS
2437	15160	> 500	PASS
2462	15160	> 500	PASS

802.11n_HT40M Ch0

Freq. (MHz)	BW (kHz)	Limit (kHz)	Result
2422	35150	> 500	PASS
2437	35160	> 500	PASS
2452	35160	> 500	PASS

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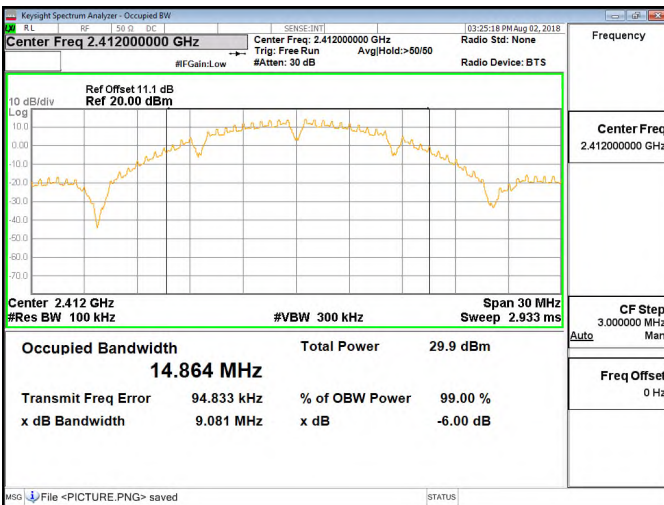
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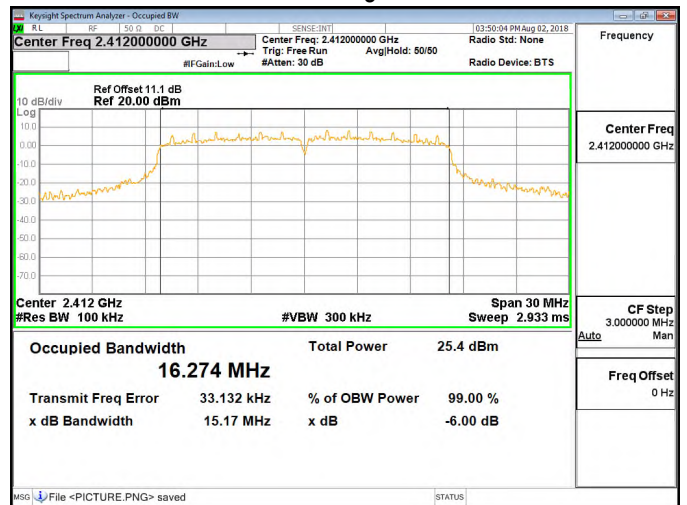
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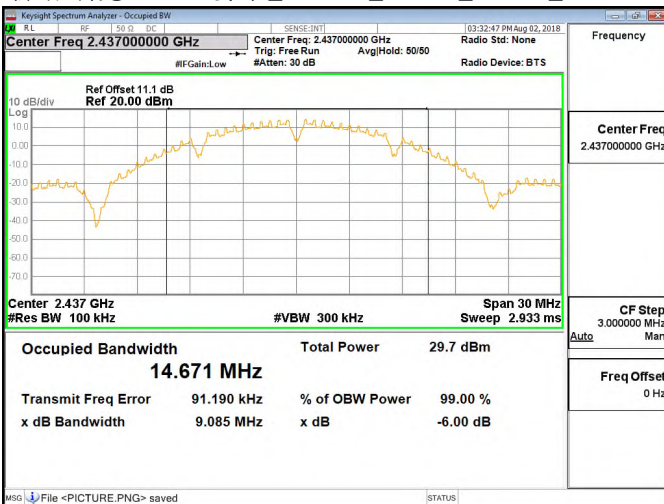
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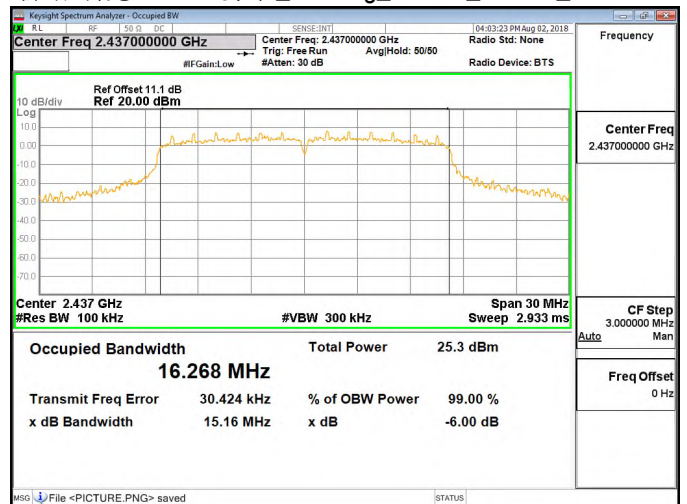
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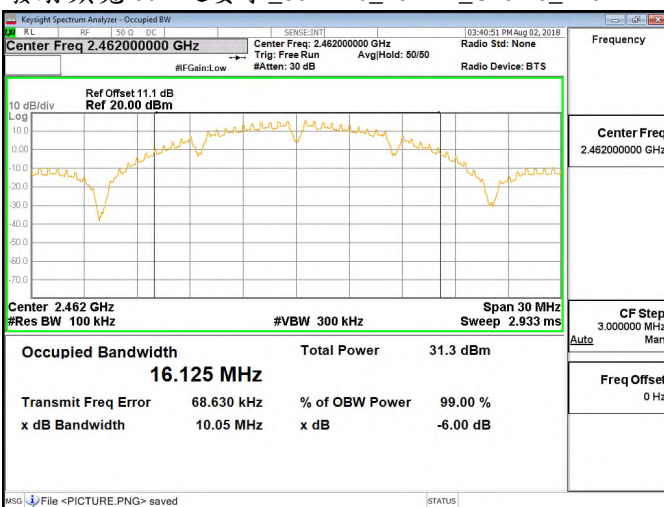
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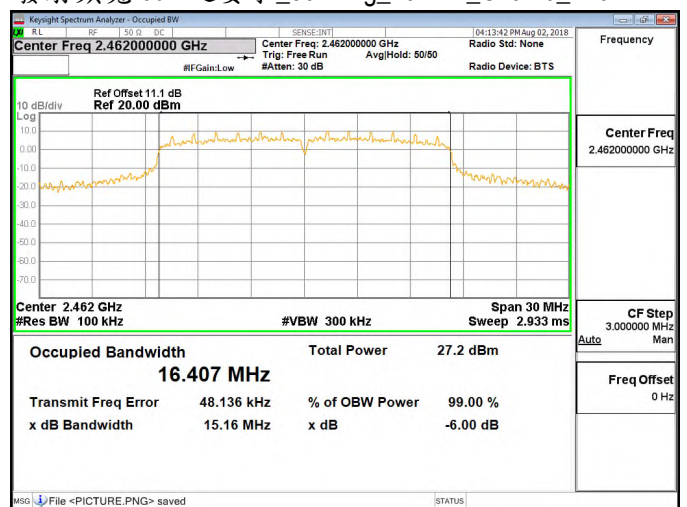
發射頻寬 6dB 之要求_802.11g_20MHz_Chain0_2437MHz



發射頻寬 6dB 之要求_802.11b_20MHz_Chain0_2462MHz



發射頻寬 6dB 之要求_802.11g_20MHz_Chain0_2462MHz



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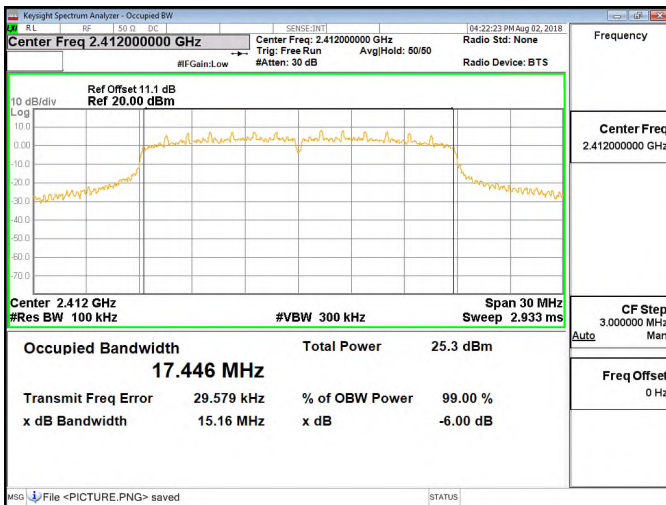
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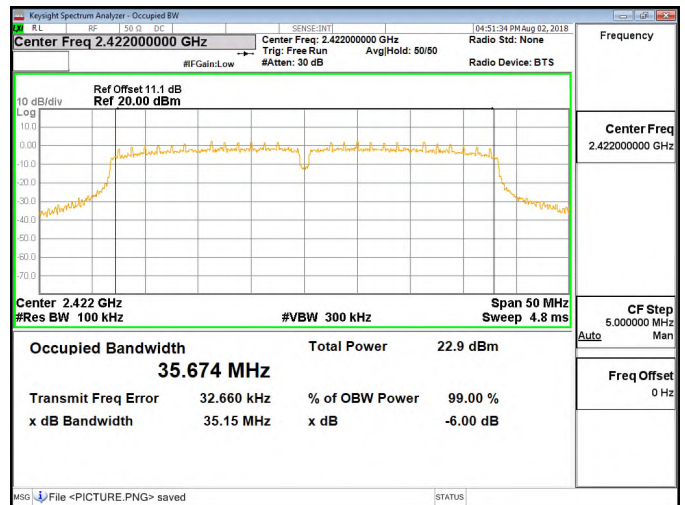
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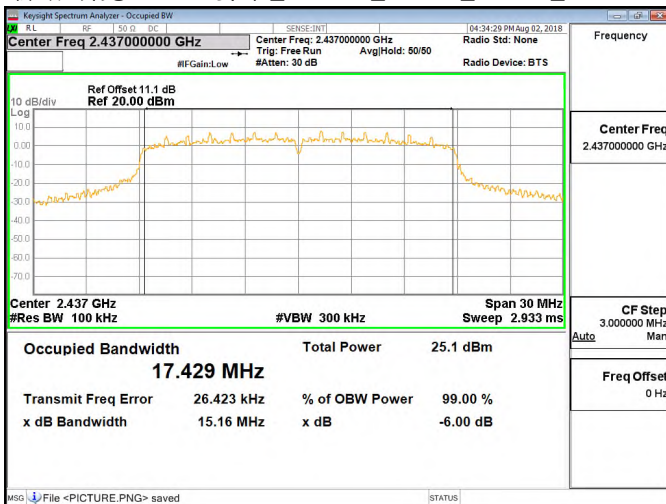
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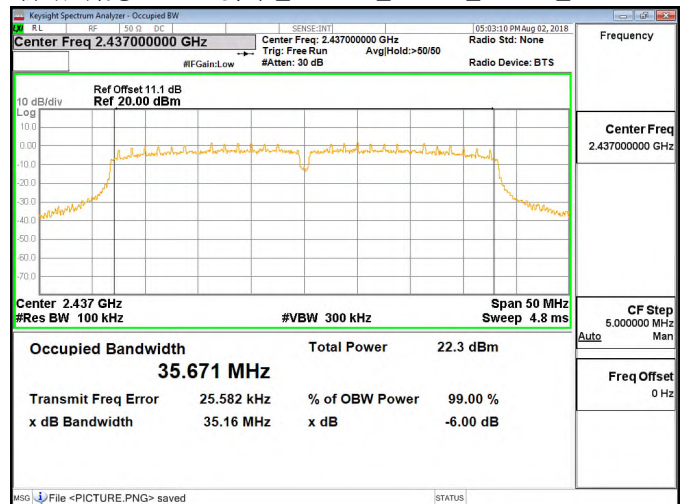
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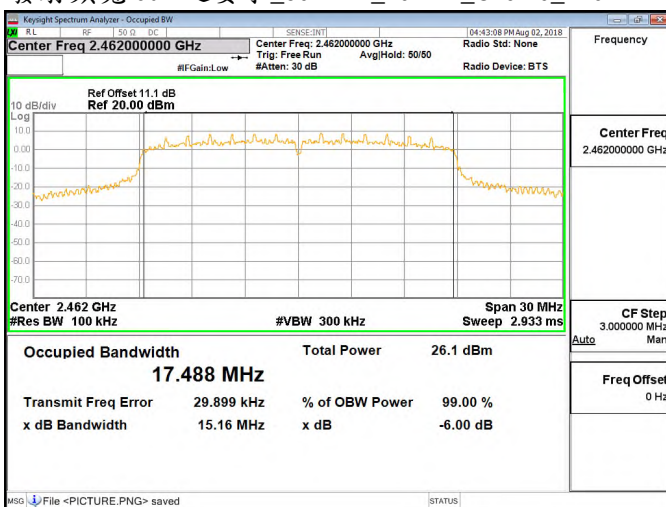
發射頻寬 6dB 之要求_802.11n_20MHz_Chain0_2437MHz



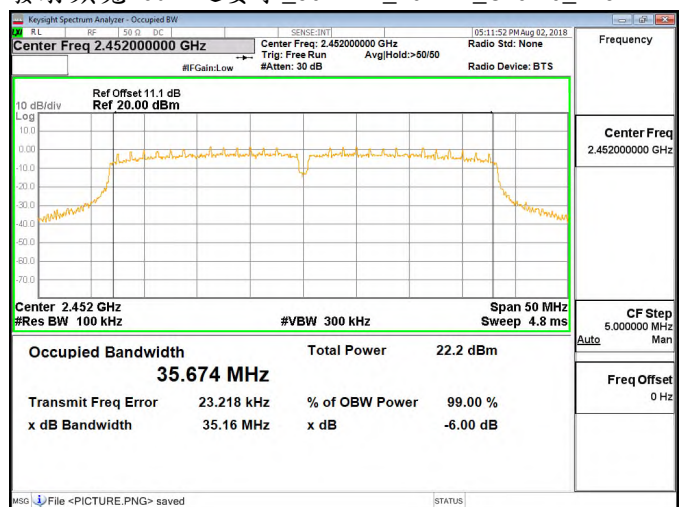
發射頻寬 6dB 之要求_802.11n_40MHz_Chain0_2437MHz



發射頻寬 6dB 之要求_802.11n_20MHz_Chain0_2462MHz



發射頻寬 6dB 之要求_802.11n_40MHz_Chain0_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：

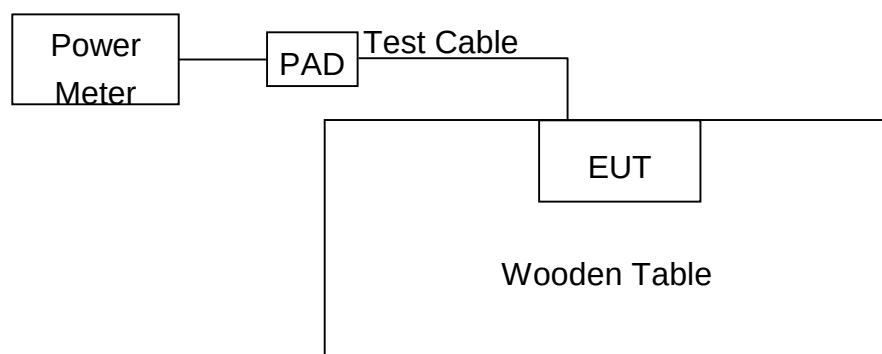
依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

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

測試設備： 影音共享控制中心

型號： CSE-200+

測試者： 曾健榮 / 資深工程師

Antenna Chain 0

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit		RESULT
1	2412	1	24.74	1 Watt =	30.00 dBm	PASS
6	2437	1	24.66	1 Watt =	30.00 dBm	PASS
11	2462	1	25.61	1 Watt =	30.00 dBm	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit		RESULT
1	2412	1	22.78	1 Watt =	30.00 dBm	PASS
6	2437	1	22.65	1 Watt =	30.00 dBm	PASS
11	2462	1	24.09	1 Watt =	30.00 dBm	PASS

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit		RESULT
1	2412	6	23.72	1 Watt =	30.00 dBm	PASS
6	2437	6	23.61	1 Watt =	30.00 dBm	PASS
11	2462	6	24.64	1 Watt =	30.00 dBm	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit		RESULT
1	2412	6	18.47	1 Watt =	30.00 dBm	PASS
6	2437	6	18.19	1 Watt =	30.00 dBm	PASS
11	2462	6	20.03	1 Watt =	30.00 dBm	PASS

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802.11n_HT20M Ch0						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit		RESULT
1	2412	MCS0	24.21	1 Watt =	30.00 dBm	PASS
6	2437	MCS0	24.01	1 Watt =	30.00 dBm	PASS
11	2462	MCS0	24.42	1 Watt =	30.00 dBm	PASS
802.11n_HT20M Ch0						
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit		RESULT
1	2412	MCS0	18.29	1 Watt =	30.00 dBm	PASS
6	2437	MCS0	18.07	1 Watt =	30.00 dBm	PASS
11	2462	MCS0	18.97	1 Watt =	30.00 dBm	PASS

802.11n_HT40M Ch0						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit		RESULT
3	2422	MCS0	22.34	1 Watt =	30.00 dBm	PASS
6	2437	MCS0	21.98	1 Watt =	30.00 dBm	PASS
9	2452	MCS0	22.12	1 Watt =	30.00 dBm	PASS
802.11n_HT40M Ch0						
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit		RESULT
3	2422	MCS0	15.67	1 Watt =	30.00 dBm	PASS
6	2437	MCS0	15.04	1 Watt =	30.00 dBm	PASS
9	2452	MCS0	15.08	1 Watt =	30.00 dBm	PASS

Note:

offset 11.10 dB for SISO mode

**Note: Measured by Power Meter.*

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Spot Check Data:

Model No.: CSE-200+

802.11b		Peak Power Output (dBm)	Original Power	Tolerance
CH	Frequency (MHz)	Data Rate (Mbps)		
		1		
1	2412	24.53	24.74	-0.21
6	2437	24.41	24.66	-0.25
11	2462	25.23	25.61	-0.38

802.11g		Peak Power Output(dBm)	Original Power	Tolerance
CH	Frequency (MHz)	Data Rate (Mbps)		
		6		
1	2412	23.71	23.72	-0.01
6	2437	23.34	23.61	-0.27
11	2462	24.54	24.64	-0.10

802.11n HT20		Peak Power Output(dBm)	Original Power	Tolerance
CH	Frequency (MHz)	Data Rate (Mbps)		
		mcs0		
1	2412	23.74	24.21	-0.47
6	2437	23.64	24.01	-0.37
11	2462	24.51	24.42	0.09

802.11n HT40		Peak Power Output(dBm)	Original Power	Tolerance
CH	Frequency (MHz)	Data Rate (Mbps)		
		mcs0		
3	2422	22.04	22.34	-0.30
6	2437	21.71	21.98	-0.27
9	2452	21.47	22.12	-0.65

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Model No.: C 5010S

802.11b		Peak Power Output (dBm)	Original Power	Tolerance
CH	Frequency (MHz)	Data Rate (Mbps)		
		1		
1	2412	24.60	24.74	-0.14
6	2437	24.46	24.66	-0.20
11	2462	25.30	25.61	-0.31

802.11g		Peak Power Output(dBm)	Original Power	Tolerance
CH	Frequency (MHz)	Data Rate (Mbps)		
		6		
1	2412	23.75	23.72	0.03
6	2437	23.45	23.61	-0.16
11	2462	24.62	24.64	-0.02

802.11n HT20		Peak Power Output(dBm)	Original Power	Tolerance
CH	Frequency (MHz)	Data Rate (Mbps)		
		mcs0		
1	2412	23.85	24.21	-0.36
6	2437	23.72	24.01	-0.29
11	2462	24.62	24.42	0.20

802.11n HT40		Peak Power Output(dBm)	Original Power	Tolerance
CH	Frequency (MHz)	Data Rate (Mbps)		
		mcs0		
3	2422	22.17	22.34	-0.17
6	2437	21.86	21.98	-0.12
9	2452	21.53	22.12	-0.59

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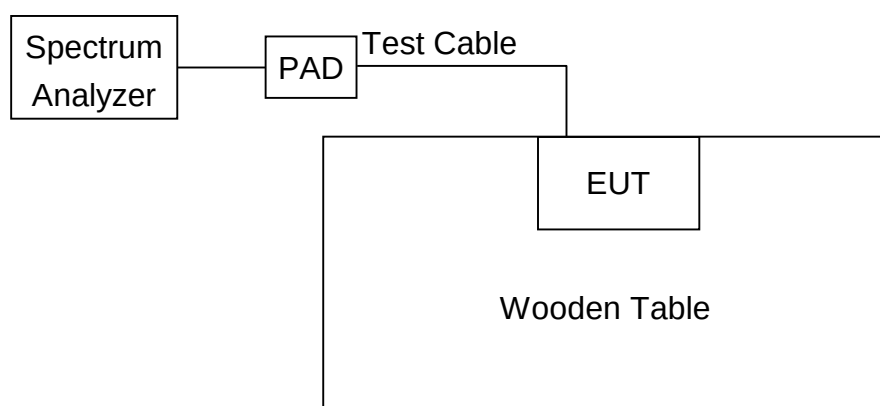
10 開放頻帶邊緣 100kHz 頻寬內之限制

10.1 適用標準

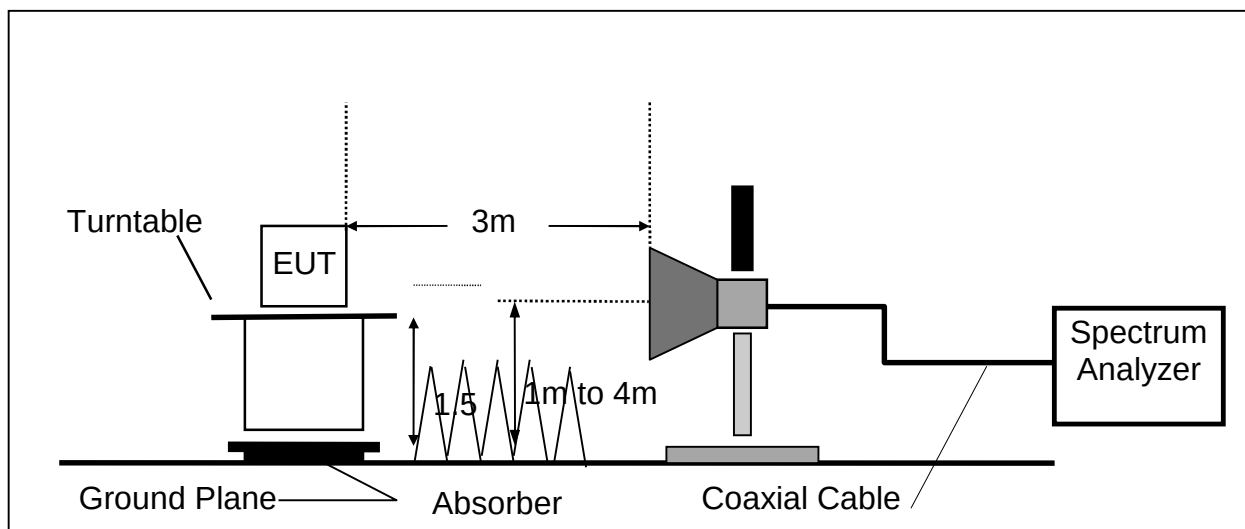
依據 NCC 低功率射頻電機技術規範 3.10.1.5 之規定，使用頻帶範圍外之任意 100kHz 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100kHz 內的射頻功率，須衰減 20 分貝 (dB)，以射頻傳導或輻射方式測量。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

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

測試設備: 影音共享控制中心

解析頻寬: 100 kHz

Span: 100MHz

型號: CSE-200+

視訊頻寬: 300 kHz

測試者: 曾健榮 / 資深工程師

10.3.1 頻帶外發射傳導量測值

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 (dBm)	Bandedge Limit (dBm)	Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	14.35	-5.65	2412	5.24	-14.76
2437	14.33	-5.67	2437	5.46	-14.54
2462	15.27	-4.73	2462	7.53	-12.47
Bandedge Limit 802.11n20 MODE			Bandedge Limit 802.11n40 MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)	Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	4.72	-15.28	2422	-1.26	-21.26
2437	4.35	-15.65	2437	0.71	-19.29
2462	5.54	-14.46	2452	-1.86	-21.86

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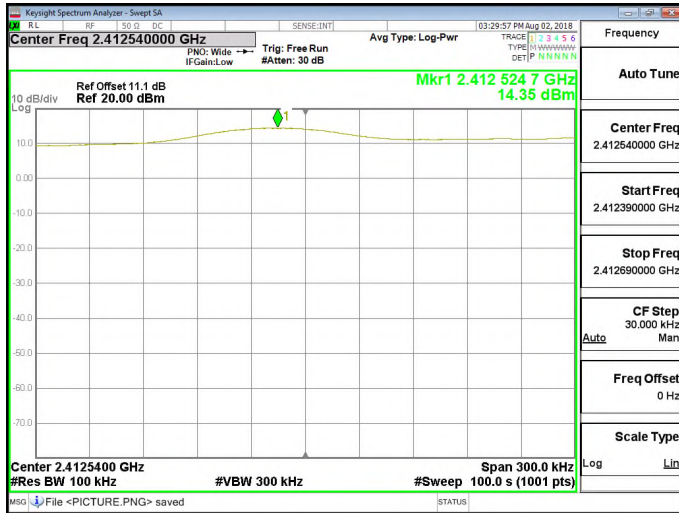
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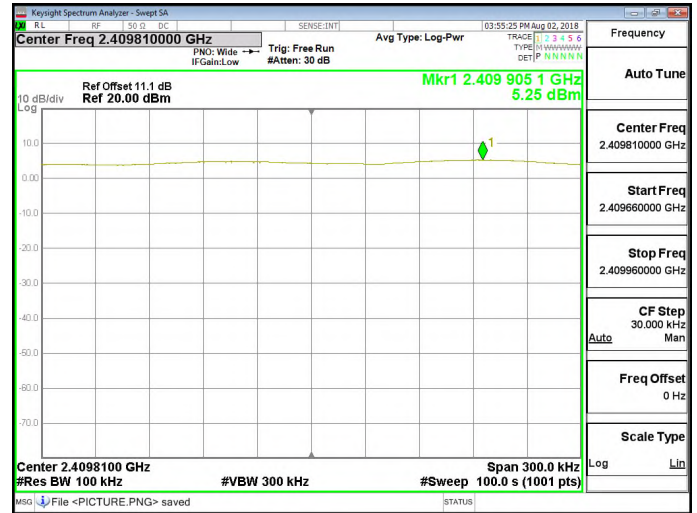
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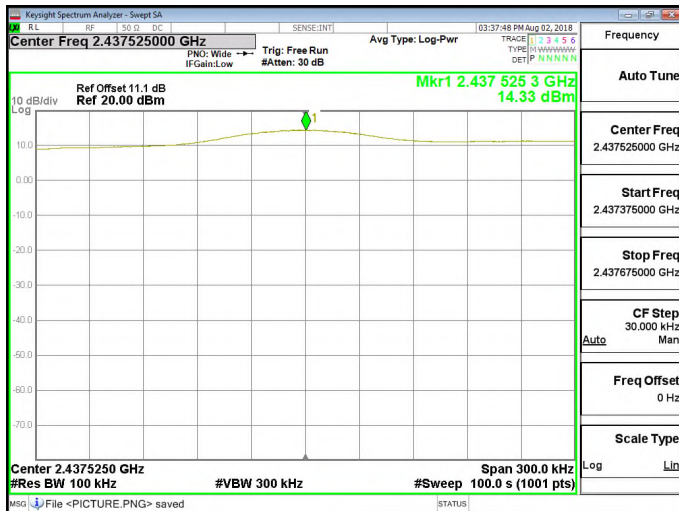
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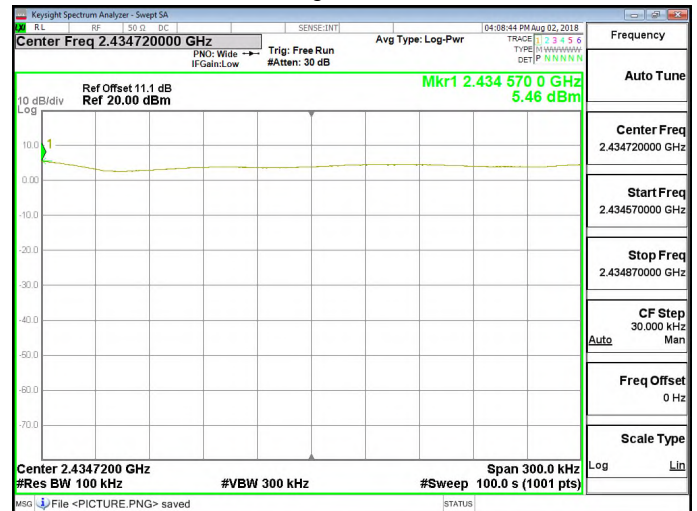
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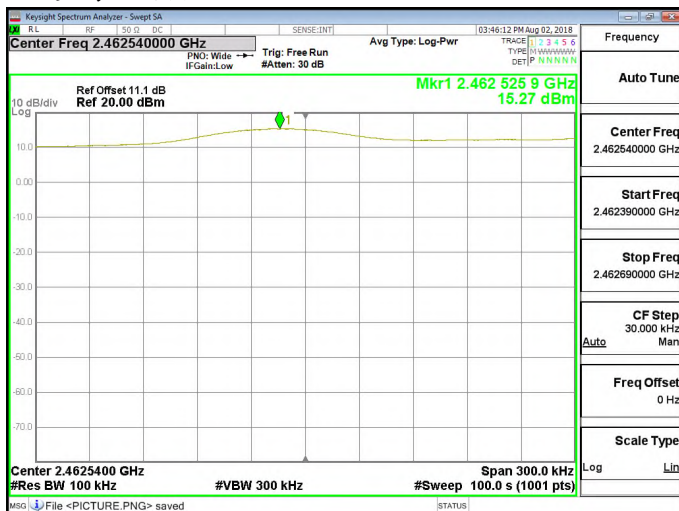
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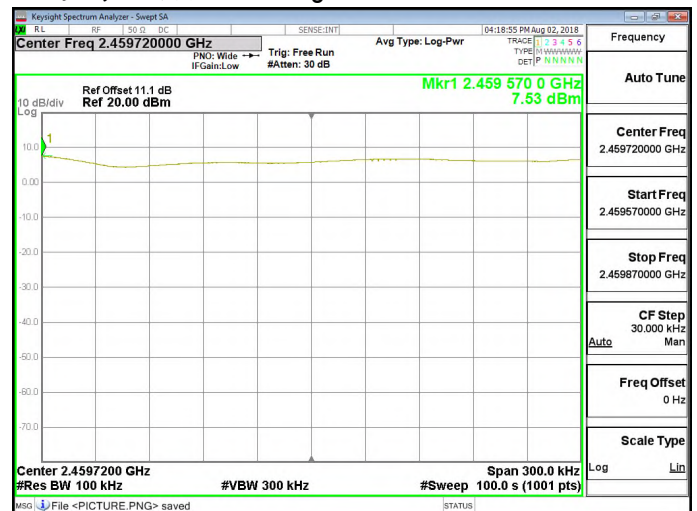
參考限制值_802.11g_20MHz_Chain0_2437MHz



參考限制值_802.11b_20MHz_Chain0_2462MHz



參考限制值_802.11g_20MHz_Chain0_2462MHz



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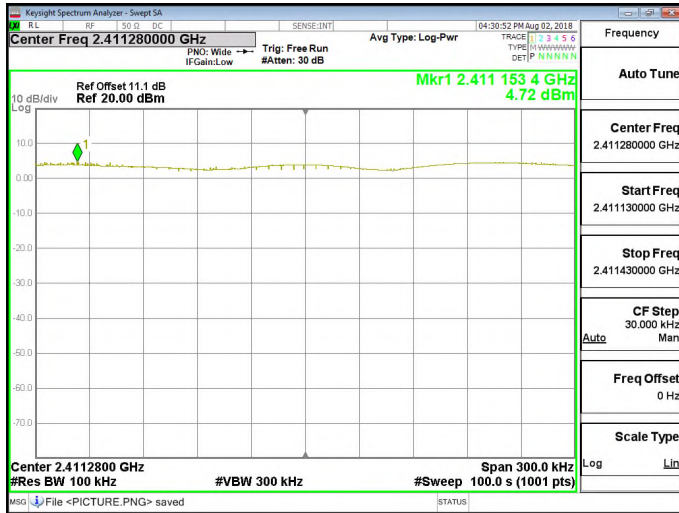
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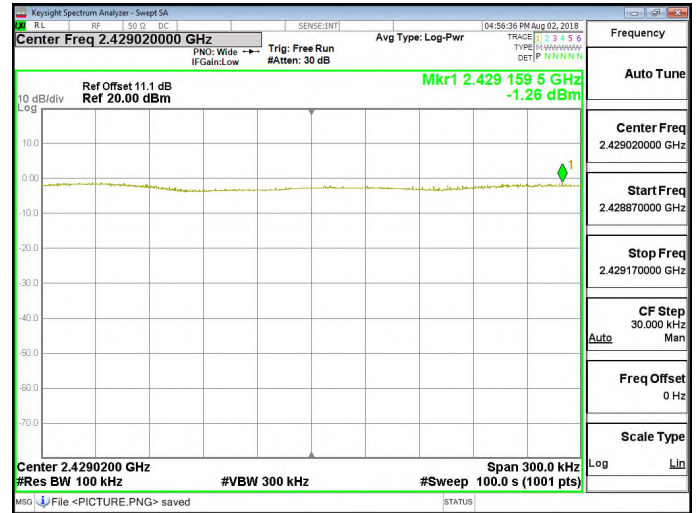
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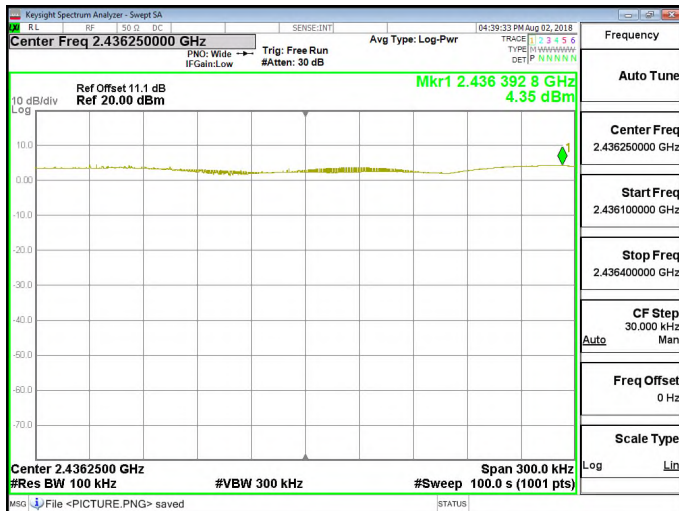
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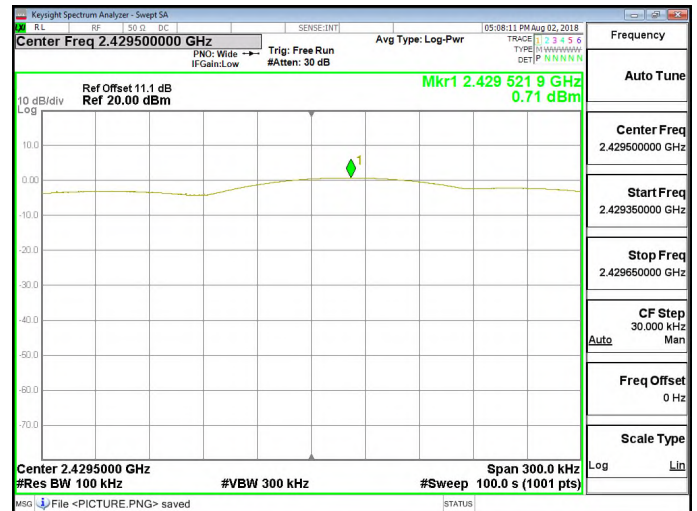
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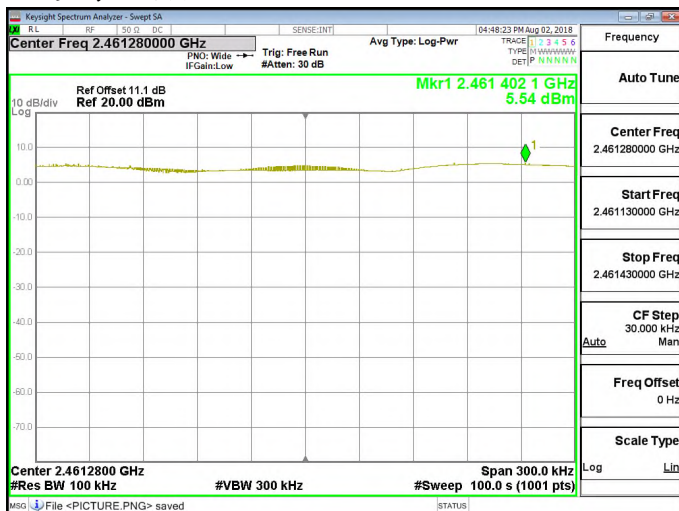
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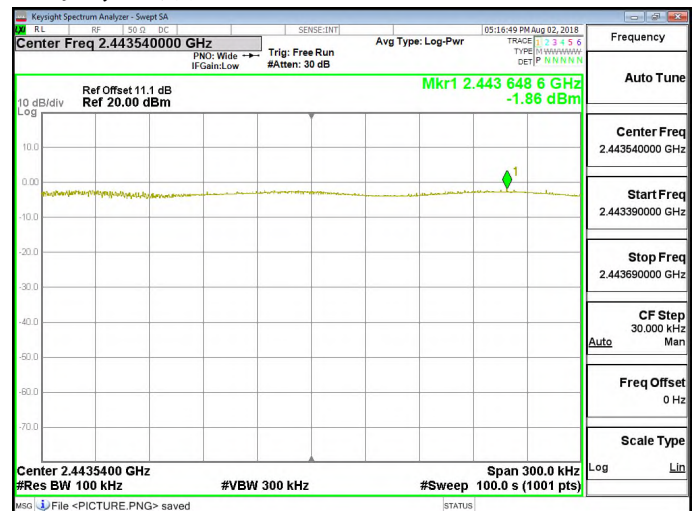
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參考限制值_802.11n_20MHz_Chain0_2462MHz



參考限制值_802.11n_40MHz_Chain0_2452MHz



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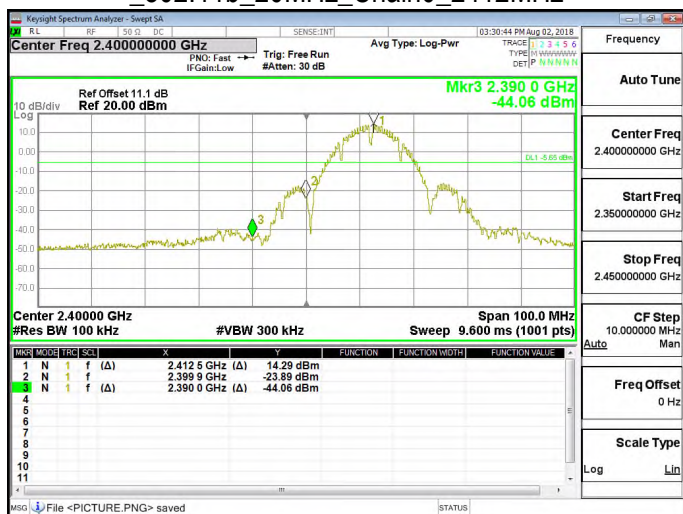
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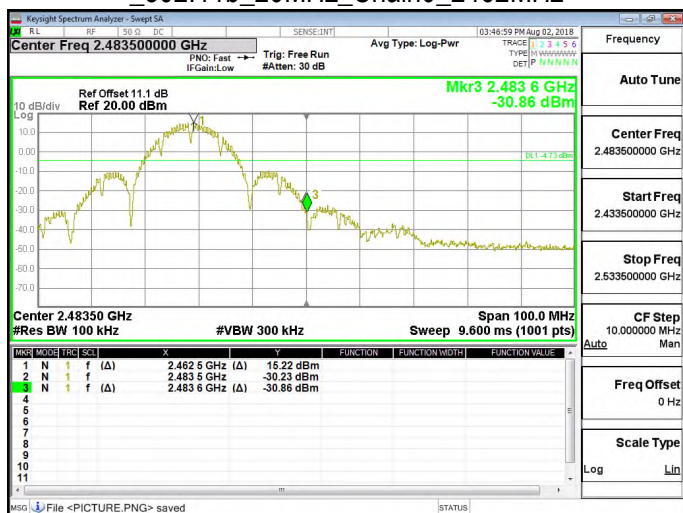
開放頻帶邊緣 100KHz 頻寬內之限制

802.11b_20MHz_Chain0_2412MHz



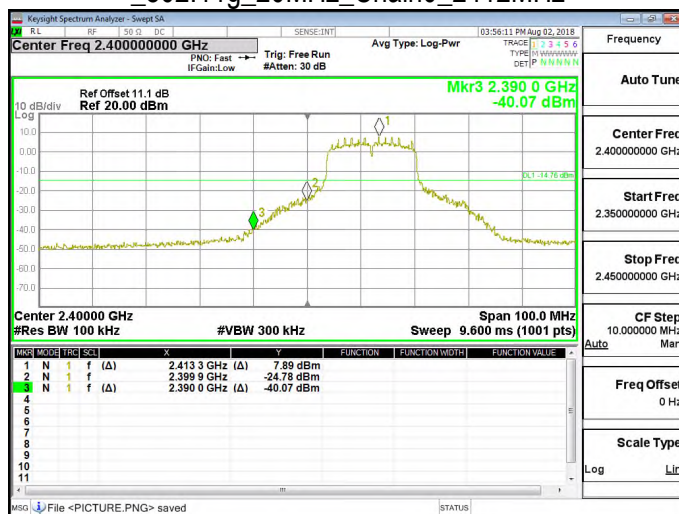
開放頻帶邊緣 100KHz 頻寬內之限制

802.11b_20MHz_Chain0_2462MHz



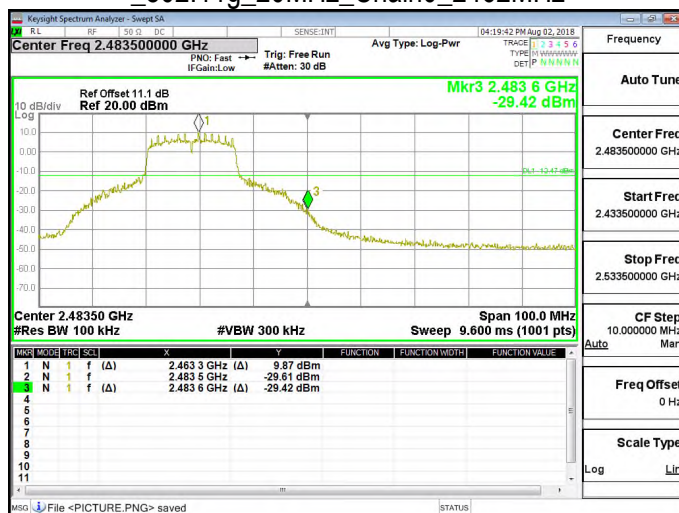
開放頻帶邊緣 100KHz 頻寬內之限制

802.11g_20MHz_Chain0_2412MHz



開放頻帶邊緣 100KHz 頻寬內之限制

802.11g_20MHz_Chain0_2462MHz



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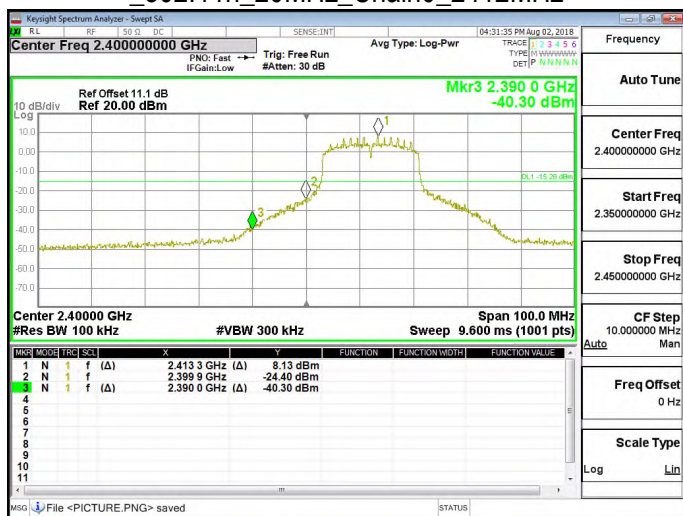
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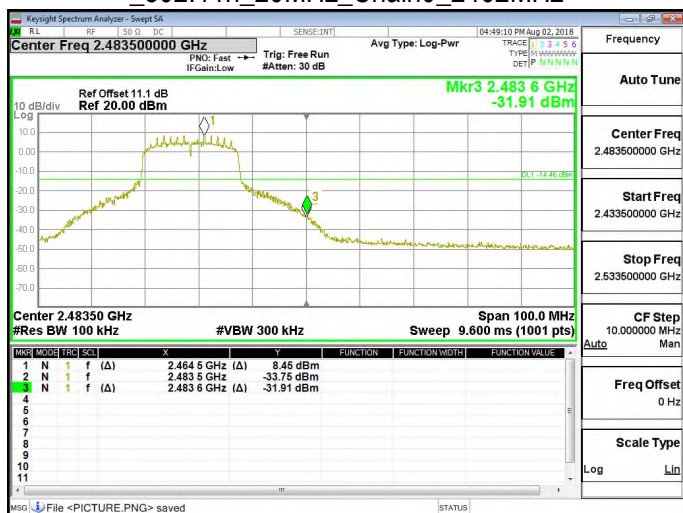
開放頻帶邊緣 100KHz 頻寬內之限制

802.11n_20MHz_Chain0_2412MHz



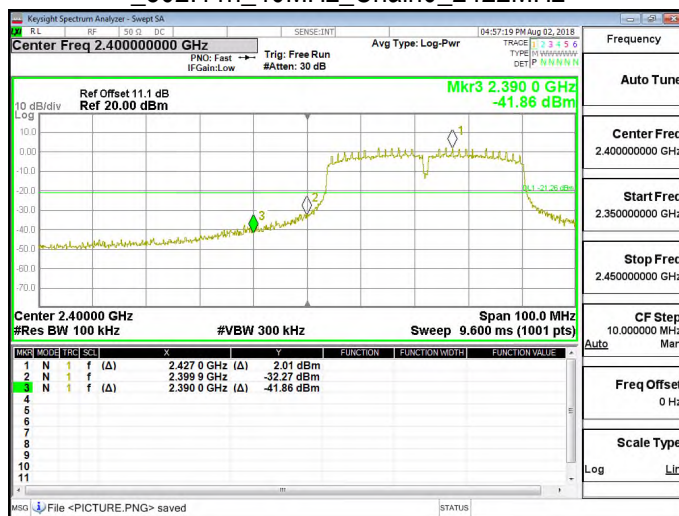
開放頻帶邊緣 100KHz 頻寬內之限制

802.11n_20MHz_Chain0_2462MHz



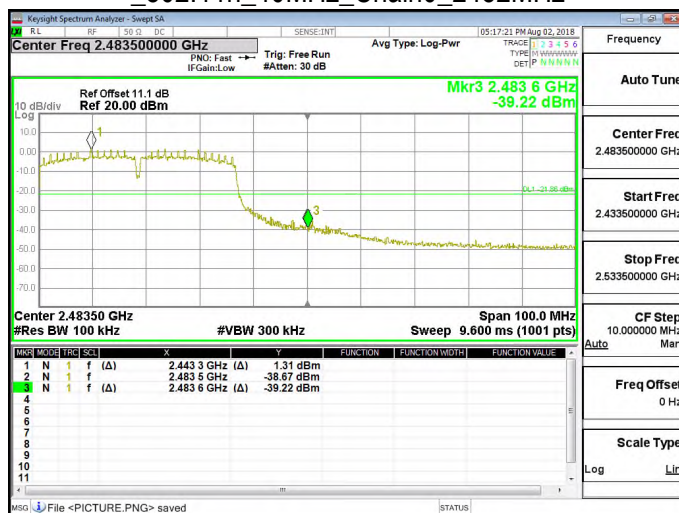
開放頻帶邊緣 100KHz 頻寬內之限制

802.11n_40MHz_Chain0_2422MHz



開放頻帶邊緣 100KHz 頻寬內之限制

802.11n_40MHz_Chain0_2452MHz



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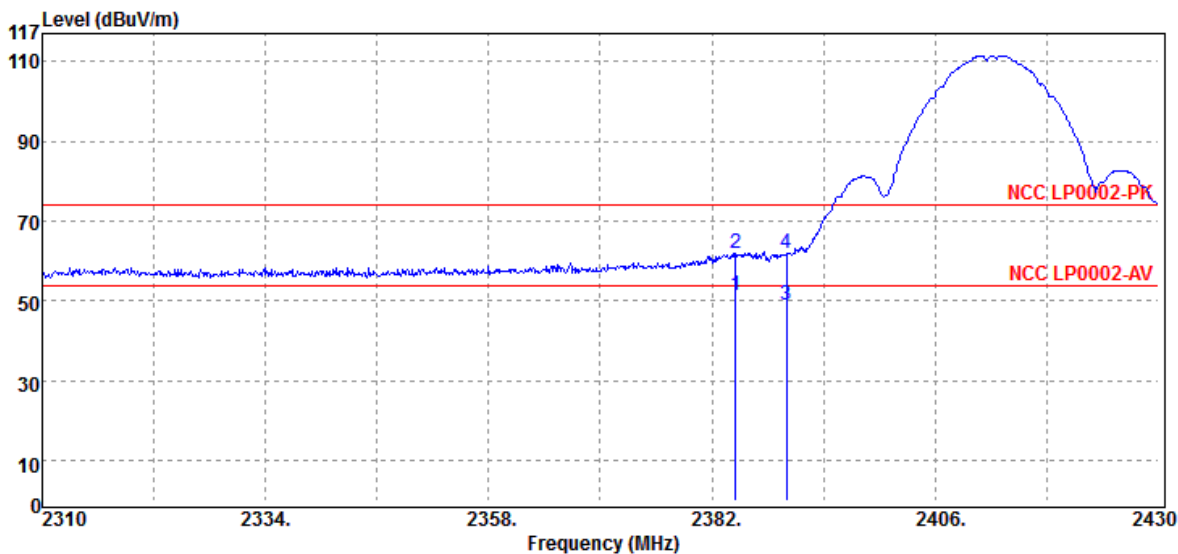
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10.3.2 禁用頻帶輻射量測值

Operation Band :802.11b
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2384.52	Average	51.36	0.18	51.54	54.00	-2.46
2384.52	Peak	61.84	0.18	62.02	74.00	-11.98
2390.00	Average	48.80	0.20	49.00	54.00	-5.00
2390.00	Peak	61.90	0.20	62.10	74.00	-11.90

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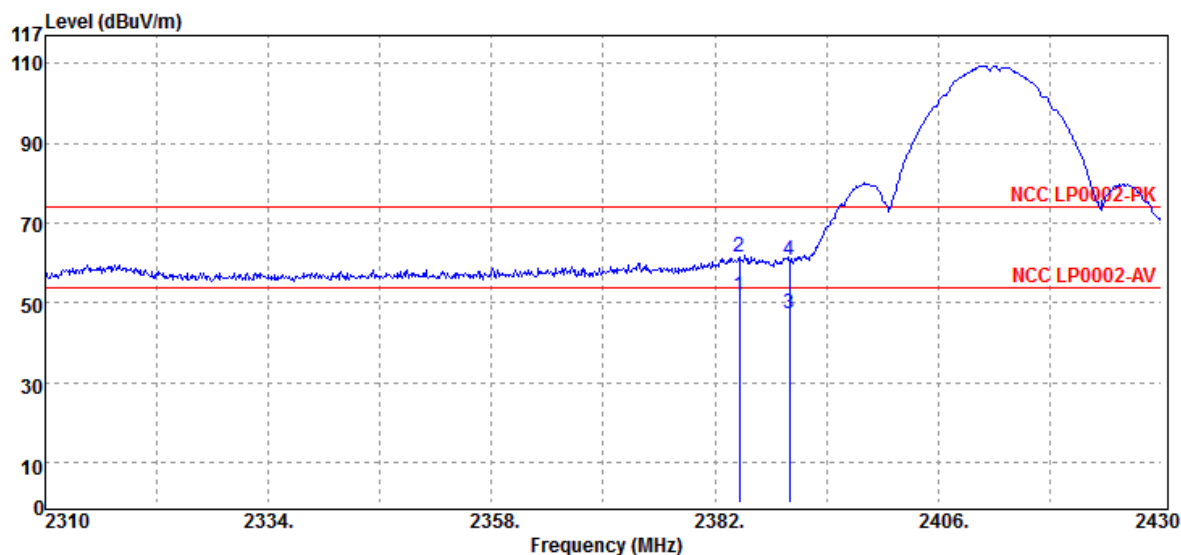
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Operation Band :802.11b
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2384.64	Average	51.78	0.18	51.96	54.00	-2.04
2384.64	Peak	61.31	0.18	61.49	74.00	-12.51
2390.00	Average	47.26	0.20	47.46	54.00	-6.54
2390.00	Peak	60.51	0.20	60.71	74.00	-13.29

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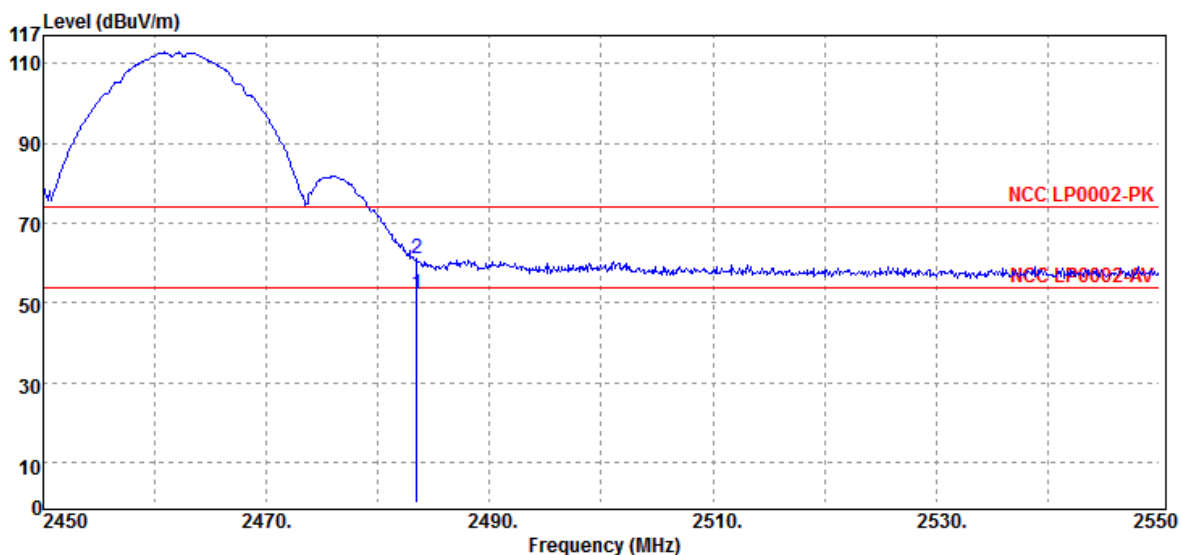
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Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	51.87	0.53	52.40	54.00	-1.60
2483.50	Peak	60.48	0.53	61.01	74.00	-12.99

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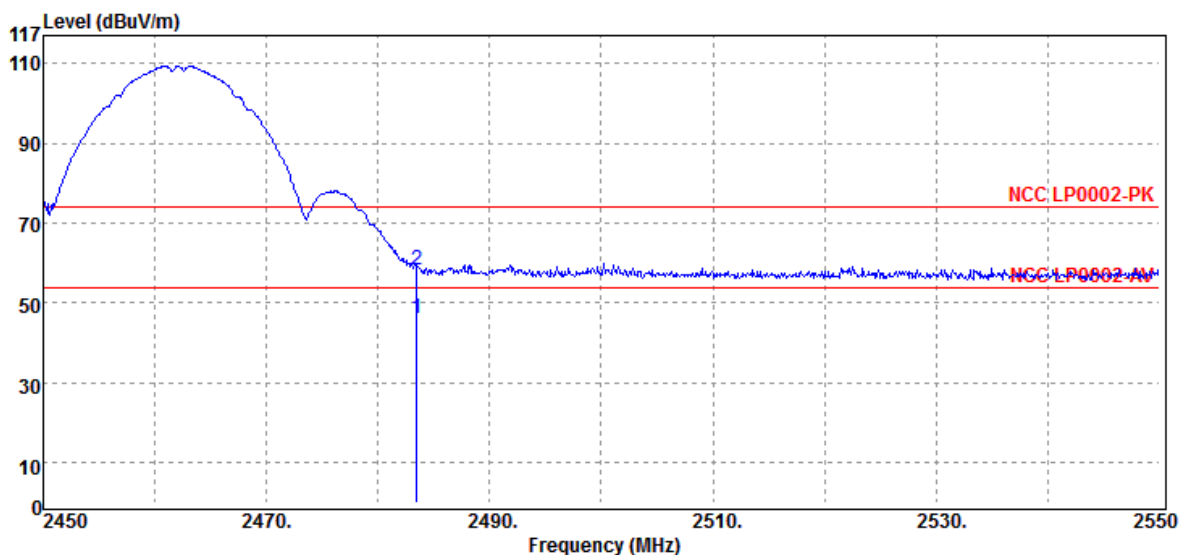
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Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	45.57	0.53	46.10	54.00	-7.90
2483.50	Peak	57.78	0.53	58.31	74.00	-15.69

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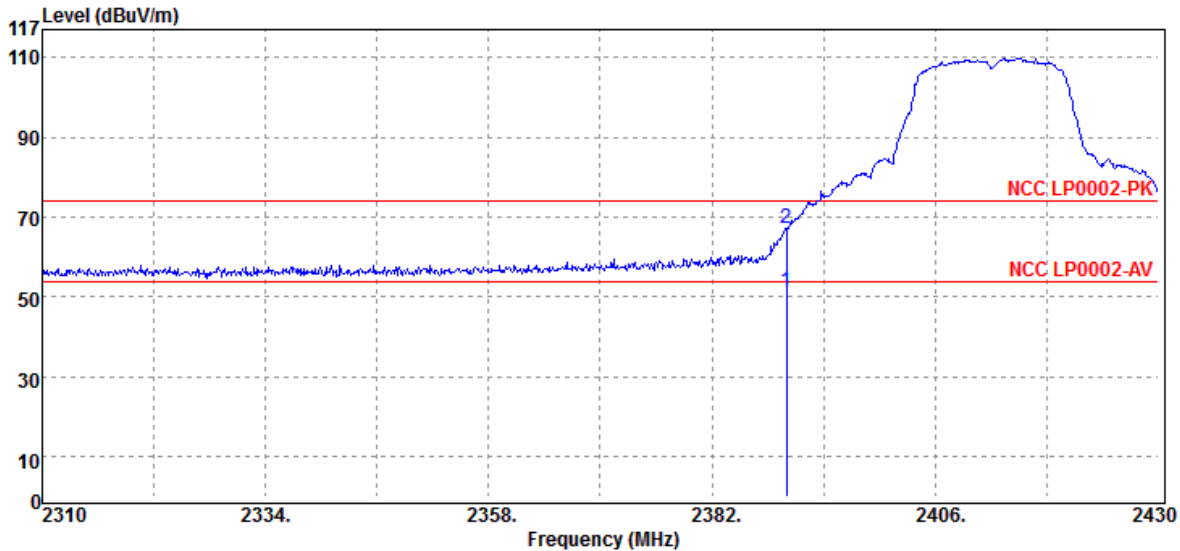
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Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	51.12	0.20	51.32	54.00	-2.68
2390.00	Peak	67.06	0.20	67.26	74.00	-6.74

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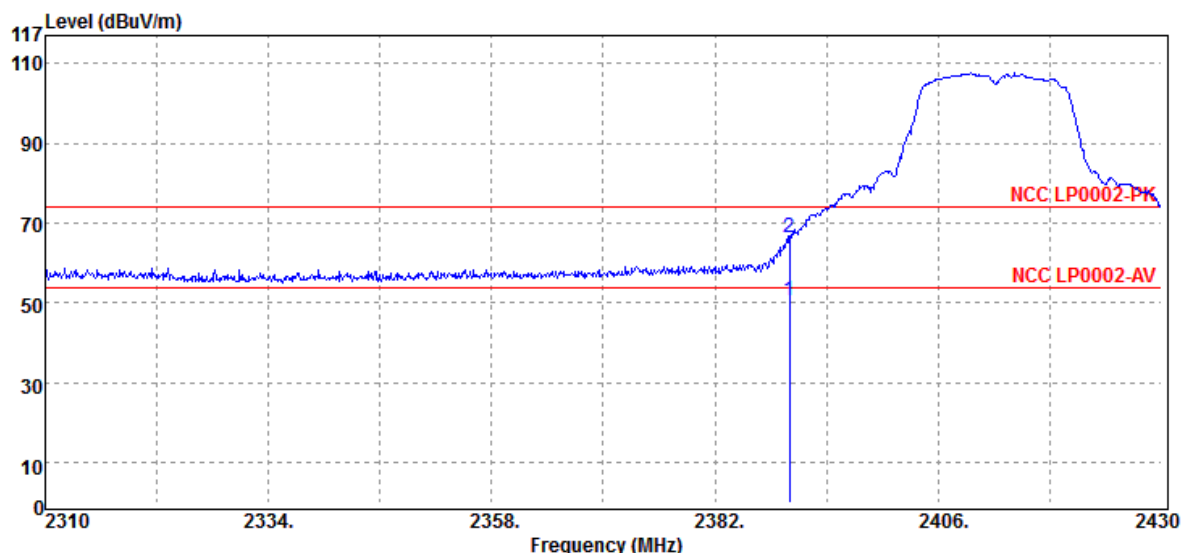
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Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	50.35	0.20	50.55	54.00	-3.45
2390.00	Peak	66.28	0.20	66.48	74.00	-7.52

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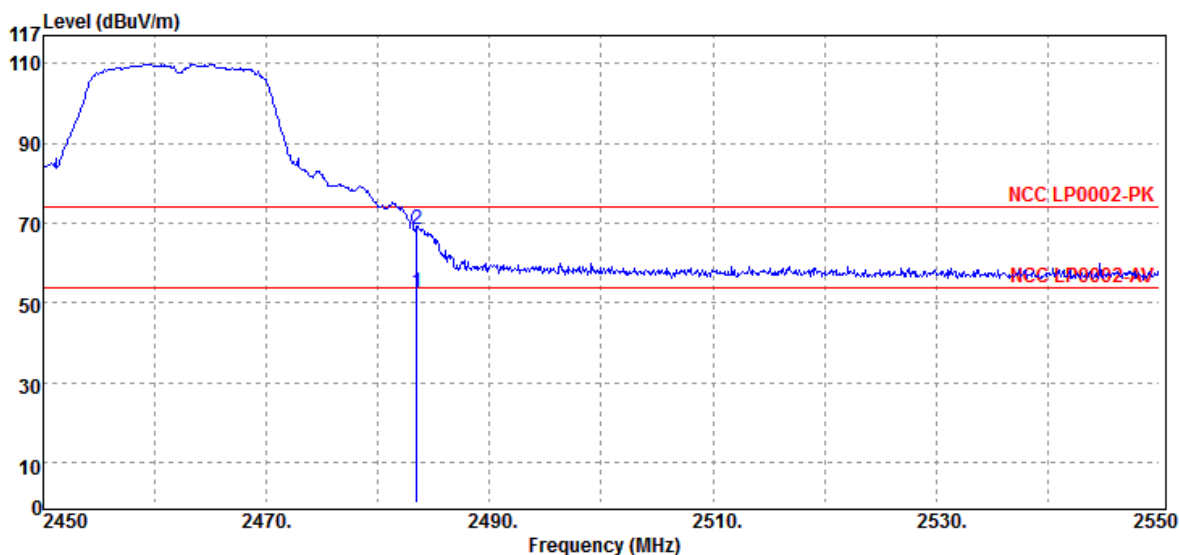
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Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	52.26	0.53	52.79	54.00	-1.21
2483.50	Peak	67.89	0.53	68.42	74.00	-5.58

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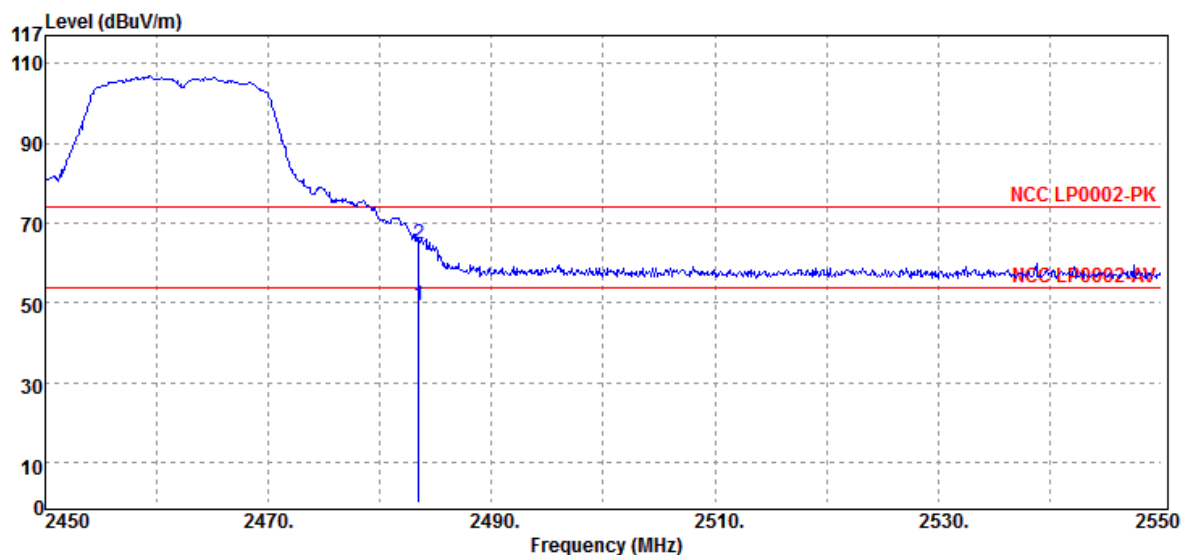
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Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	48.80	0.53	49.33	54.00	-4.67
2483.50	Peak	64.25	0.53	64.78	74.00	-9.22

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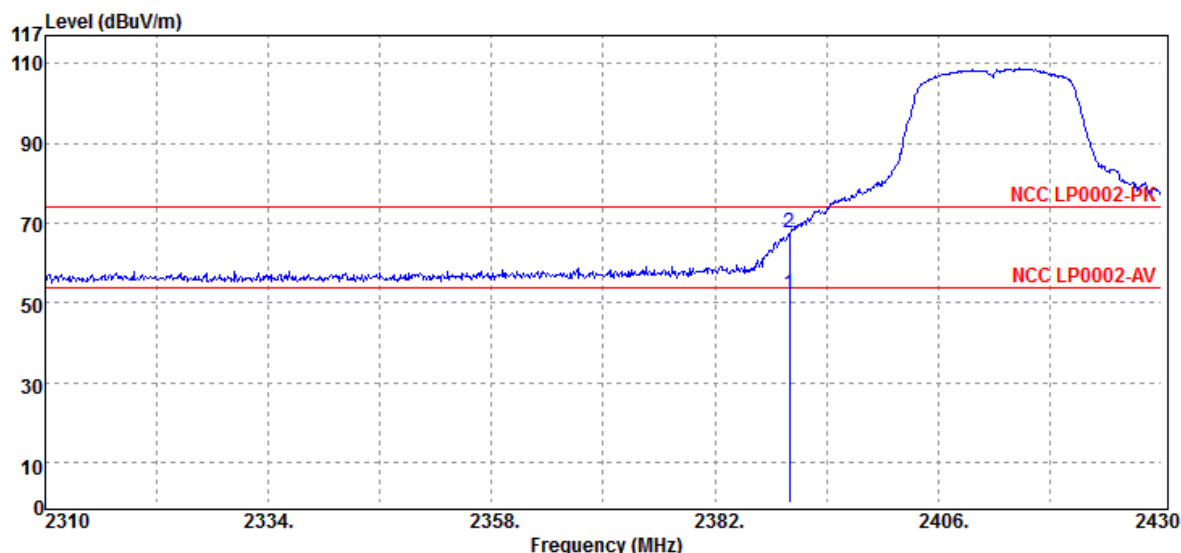
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Operation Band :802.11n20
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	51.97	0.20	52.17	54.00	-1.83
2390.00	Peak	67.30	0.20	67.50	74.00	-6.50

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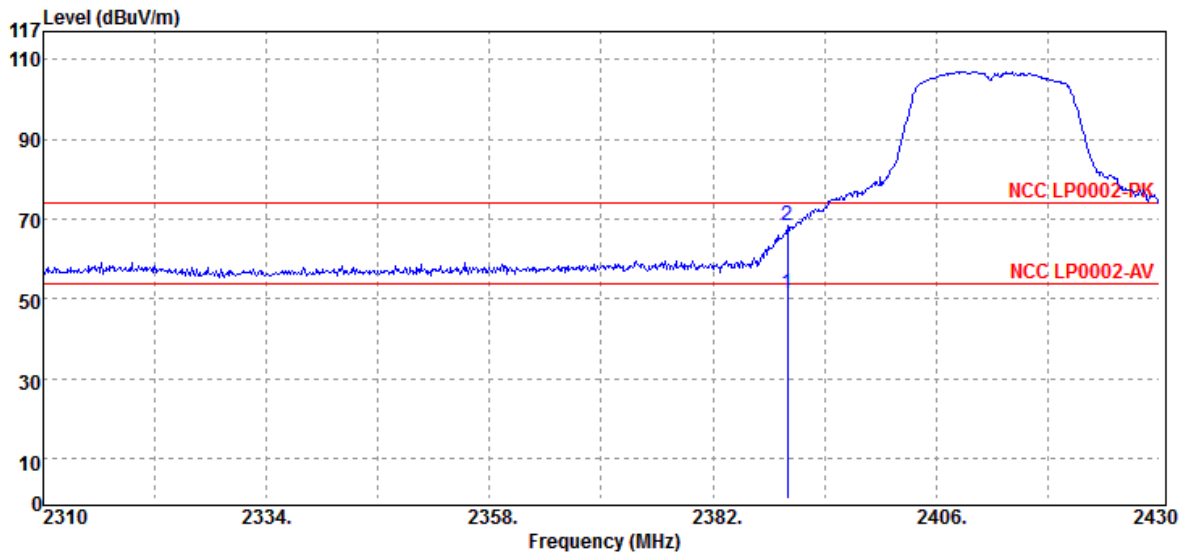
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Operation Band :802.11n20
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	51.15	0.20	51.35	54.00	-2.65
2390.00	Peak	68.16	0.20	68.36	74.00	-5.64

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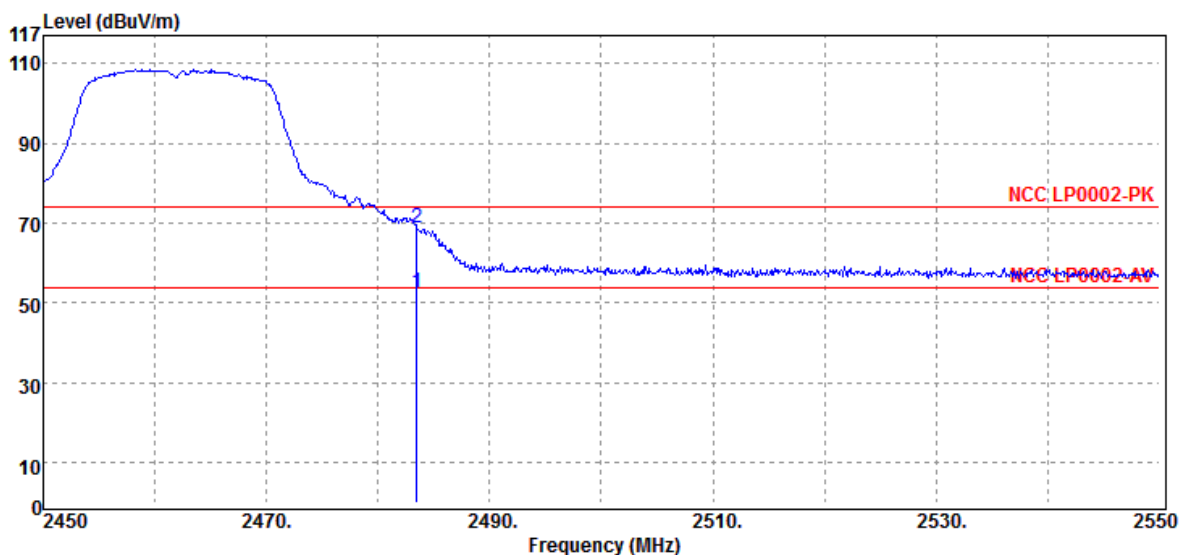
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	52.14	0.53	52.67	54.00	-1.33
2483.50	Peak	68.12	0.53	68.65	74.00	-5.35

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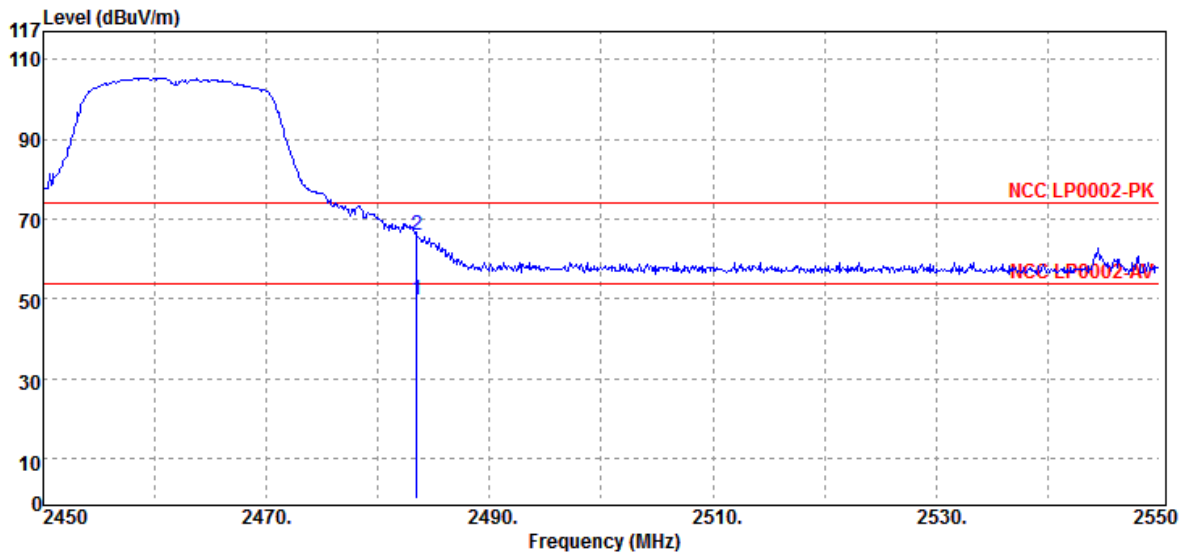
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Member of SGS Group

Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	49.16	0.53	49.69	54.00	-4.31
2483.50	Peak	65.61	0.53	66.14	74.00	-7.86

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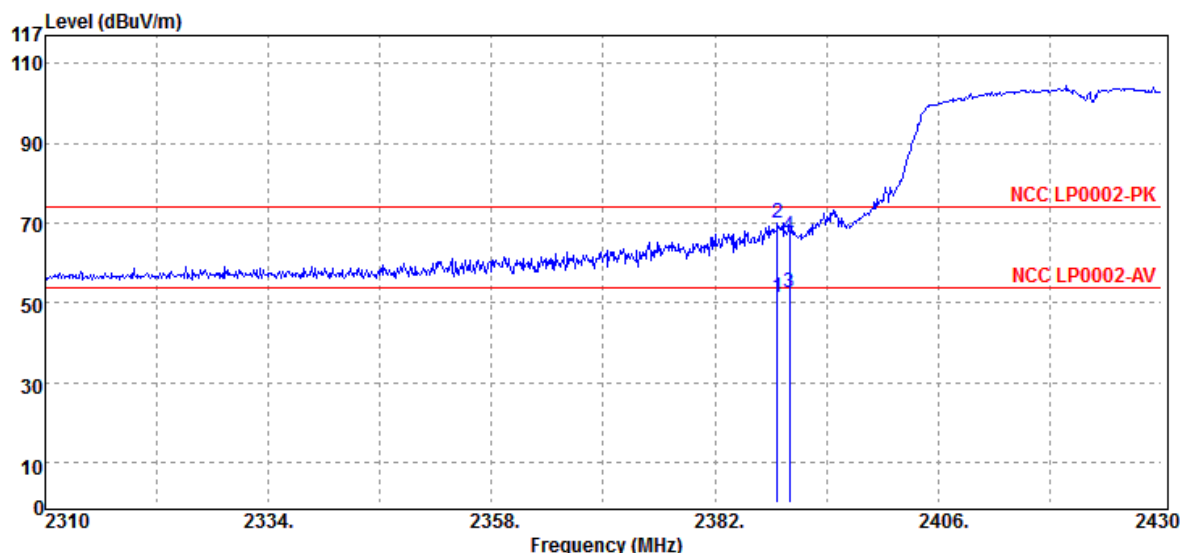
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40
Fundamental Frequency :2422 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.72	Average	51.10	0.19	51.29	54.00	-2.71
2388.72	Peak	69.89	0.19	70.08	74.00	-3.92
2390.00	Average	52.51	0.20	52.71	54.00	-1.29
2390.00	Peak	66.67	0.20	66.87	74.00	-7.13

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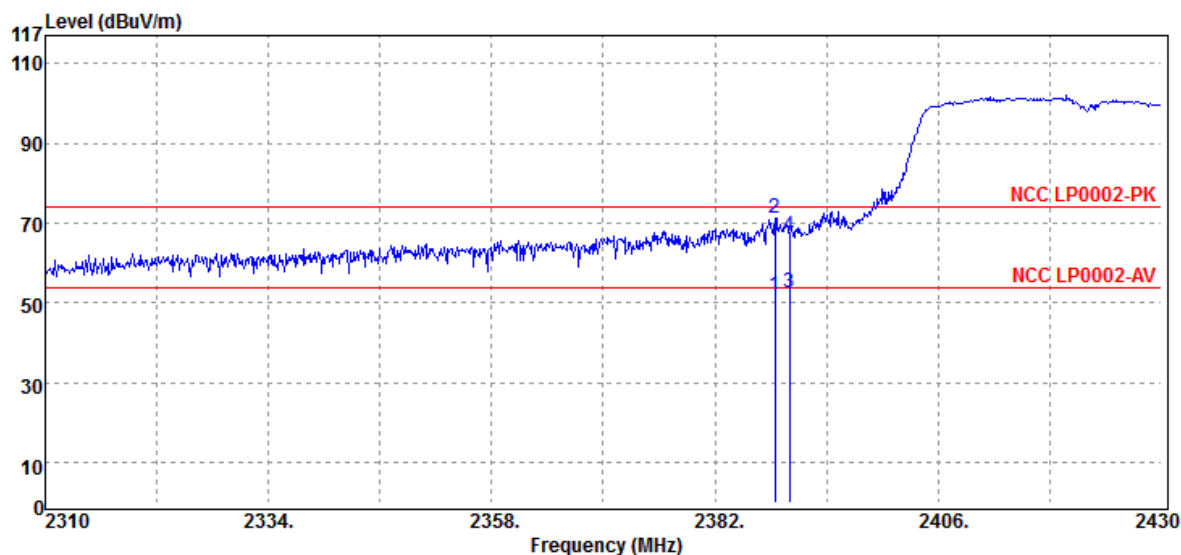
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Member of SGS Group

Operation Band :802.11n40
Fundamental Frequency :2422 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.48	Average	51.72	0.19	51.91	54.00	-2.09
2388.48	Peak	71.01	0.19	71.20	74.00	-2.80
2390.00	Average	52.53	0.20	52.73	54.00	-1.27
2390.00	Peak	66.64	0.20	66.84	74.00	-7.16

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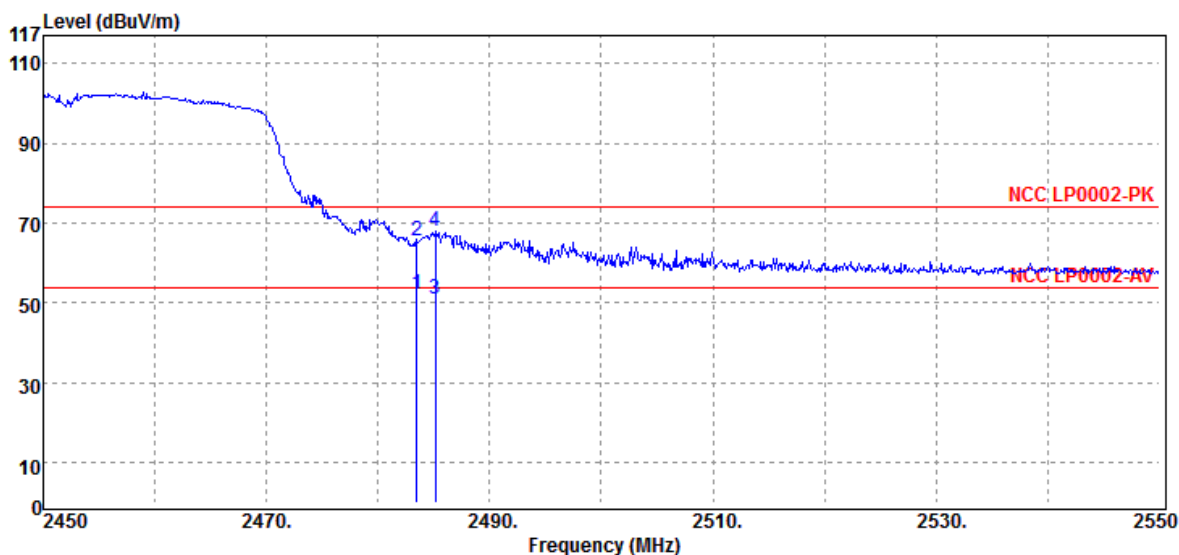
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Member of SGS Group

Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	51.64	0.53	52.17	54.00	-1.83
2483.50	Peak	64.92	0.53	65.45	74.00	-8.55
2485.10	Average	50.43	0.53	50.96	54.00	-3.04
2485.10	Peak	67.28	0.53	67.81	74.00	-6.19

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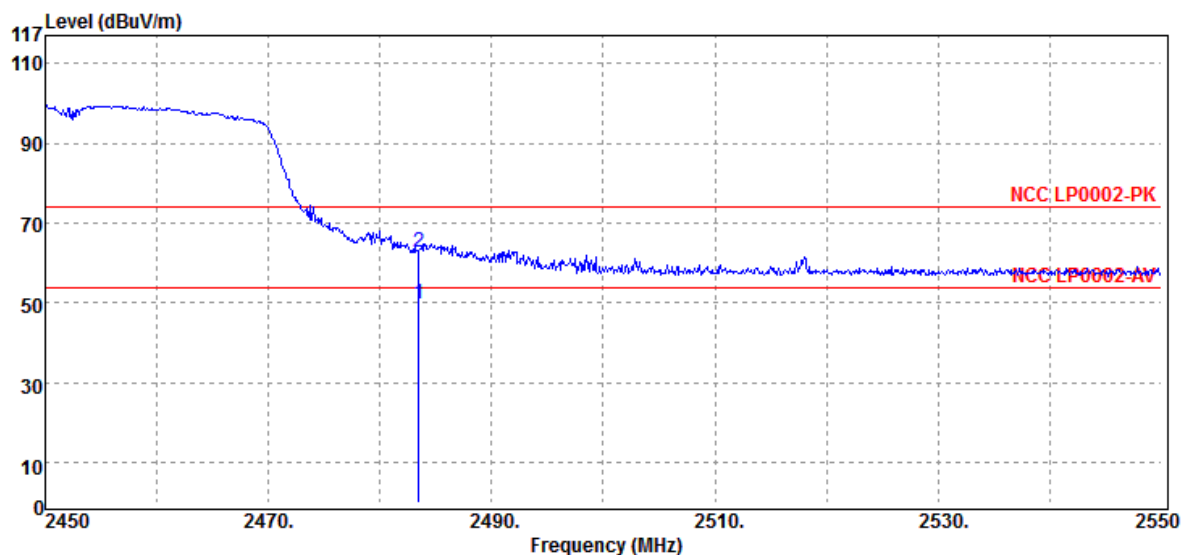
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Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-07-31
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	49.31	0.53	49.84	54.00	-4.16
2483.50	Peak	62.26	0.53	62.79	74.00	-11.21

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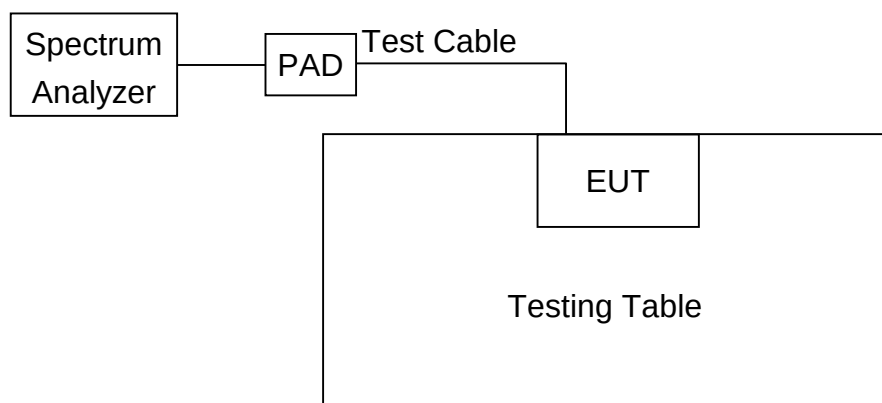
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11 功率密度之量測

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

測試設備: 影音共享控制中心

型號: CSE-200+

解析頻寬: 3 kHz

視訊頻寬: 10 kHz

Span: 300 kHz

測試者: 曾健榮 / 資深工程師

POWER DENSITY 802.11b MODE				POWER DENSITY 802.11g MODE			
Freq. (MHz)	PSD (dBm)	Maximum Limit (dBm)	Result	Freq. (MHz)	PSD (dBm)	Maximum Limit (dBm)	Result
2412	0.66	8.00	PASS	2412	-9.45	8.00	PASS
2437	0.73	8.00	PASS	2437	-9.66	8.00	PASS
2462	1.73	8.00	PASS	2462	-7.88	8.00	PASS
POWER DENSITY 802.11n HT20 MODE				POWER DENSITY 802.11n HT40 MODE			
Freq. (MHz)	PSD (dBm)	Maximum Limit (dBm)	Result	Freq. (MHz)	PSD (dBm)	Maximum Limit (dBm)	Result
2412	-8.97	8.00	PASS	2422	-15.12	8.00	PASS
2437	-9.13	8.00	PASS	2437	-14.54	8.00	PASS
2462	-8.09	8.00	PASS	2452	-14.77	8.00	PASS

Note:

offset 11.10 dB for SISO mode

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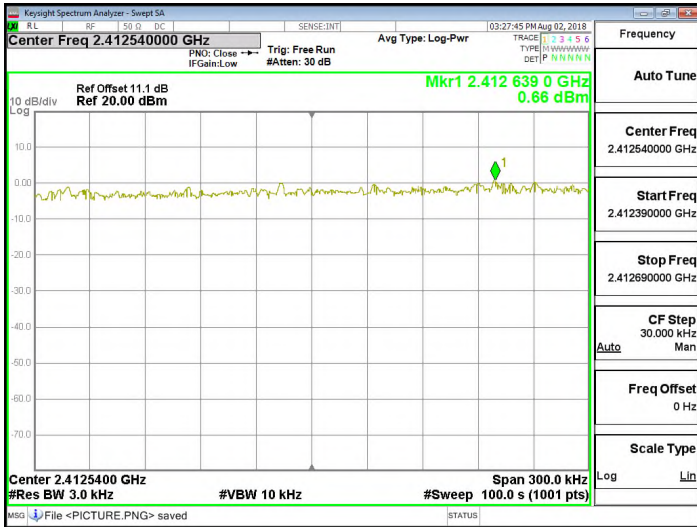
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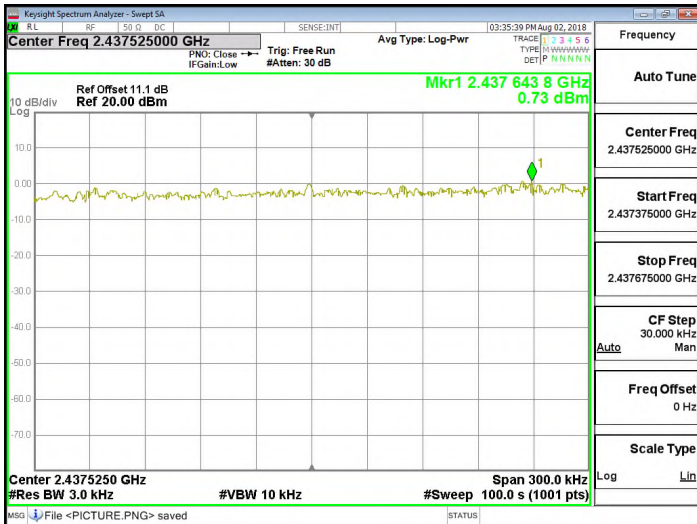
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功率密度_802.11b_20MHz_Chain0_2412MHz



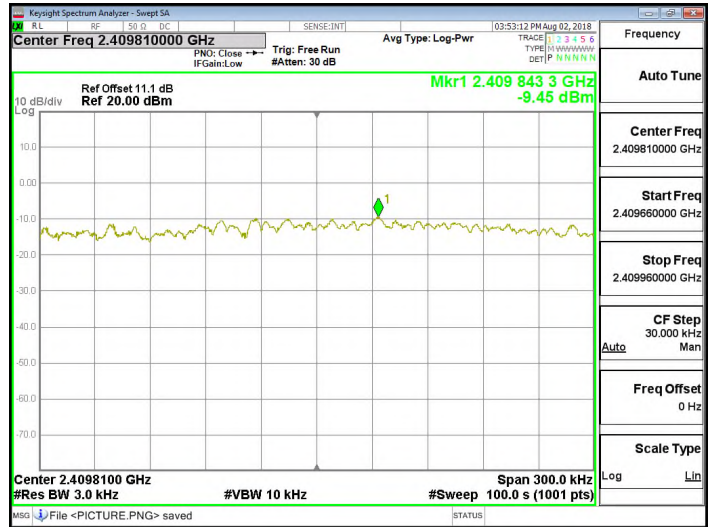
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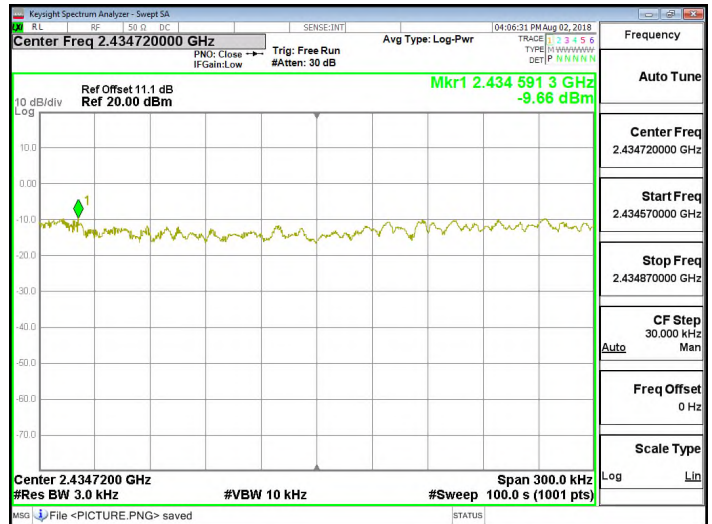
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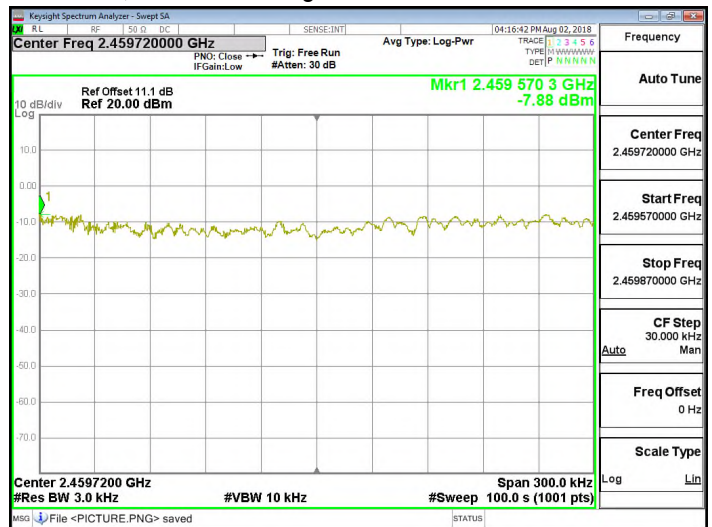
功率密度_802.11g_20MHz_Chain0_2412MHz



功率密度_802.11g_20MHz_Chain0_2437MHz



功率密度_802.11g_20MHz_Chain0_2462MHz

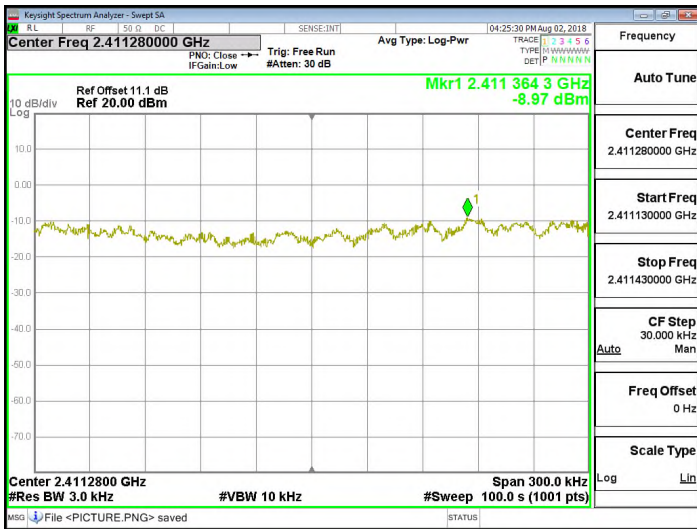


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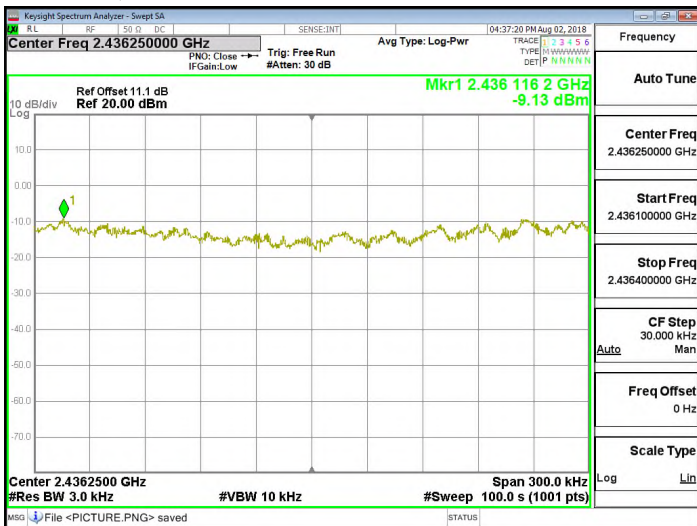
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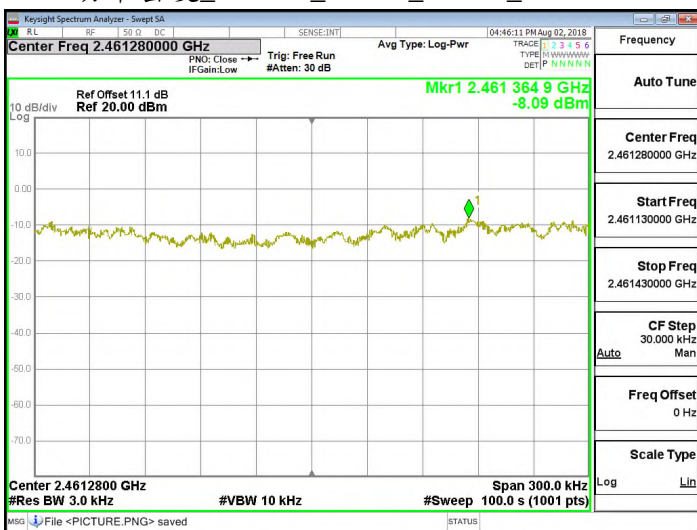
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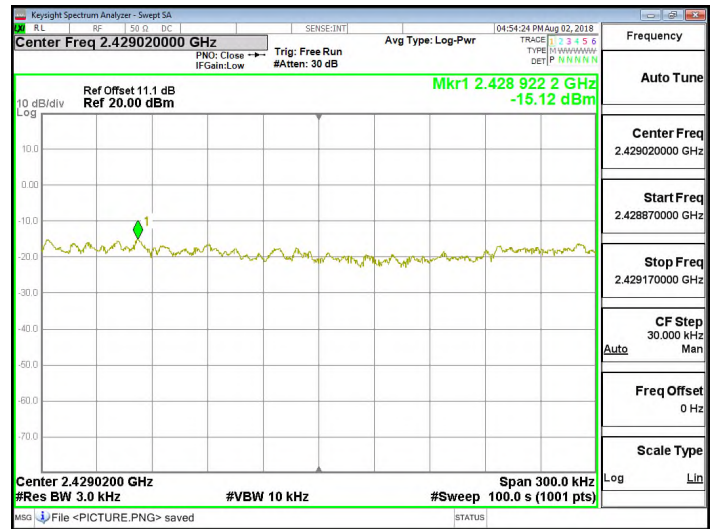
功率密度_802.11n_20MHz_Chain0_2437MHz



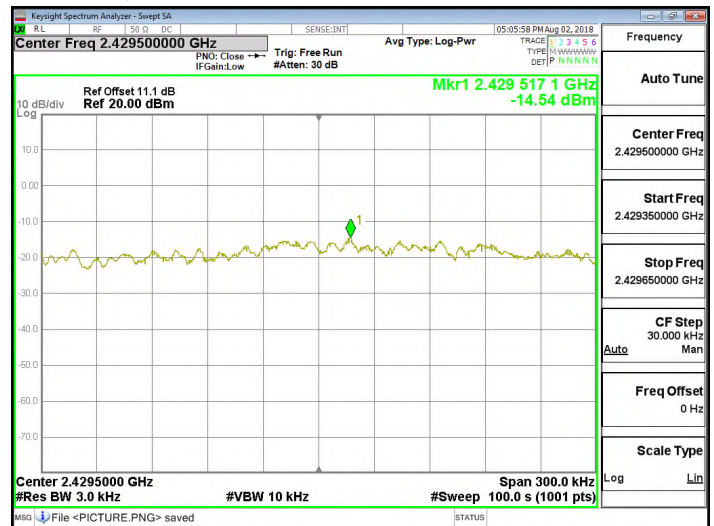
功率密度_802.11n_20MHz_Chain0_2462MHz



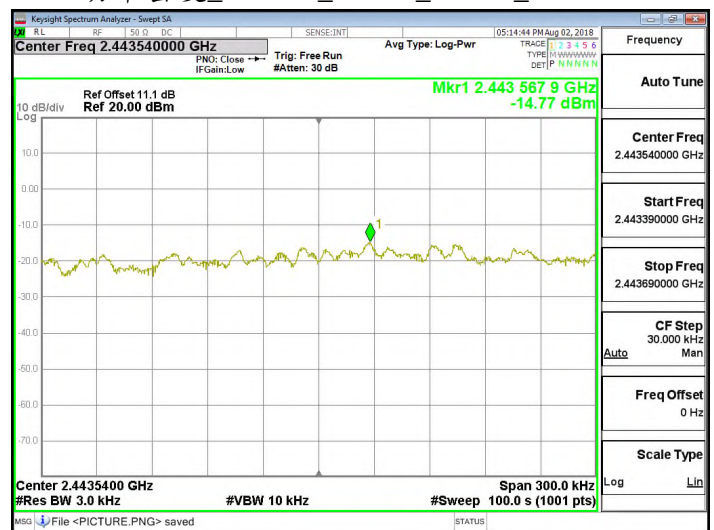
功率密度_802.11n_40MHz_Chain0_2422MHz



功率密度_802.11n_40MHz_Chain0_2437MHz



功率密度_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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~ End of Report ~

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SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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