

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	Wireless Interactive Presentation Gateway
廠牌	wePresent
型號	WiPG-1600w
發射功率	802.11 b: 21.29dBm (Peak) 802.11 g: 24.46dBm (Peak) 802.11 n (2.4GHz) HT 20 mode:20.74dBm (Peak) 802.11 n (2.4GHz) HT 40 mode:18.75dBm (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：104年06月14日起至107年06月13日止

受理日期 民國104年03月09日

完成日期 民國106年06月21日



張俊卿

報告簽署人
張俊卿 簽章

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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 105 年 8 月 23 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一百零五年八月頒佈之低功率射頻電機技術規範測試。

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

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

備註：

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2. 此份報告未經本公司同意，不得部份摘錄複製使用。

測試人員：

黃凱恩

日期：

06/21/2017

黃凱恩 / 工程師

報告製作：

黃卿雯

日期：

06/21/2017

黃卿雯 / 行政

報告審核：

張俊卿

日期：

06/21/2017

張俊卿 / 副理

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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： 104年6月14日起至107年6月13日止

測試場地： 桃園市龜山區(華亞科技園區)科技一路2號

實驗室名稱： 台灣檢驗科技股份有限公司
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

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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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1 一般資料

1.1 產品描述

產品名稱	Wireless Interactive Presentation Gateway	
產品型號	WiPG-1600w	
產品商標	wePresent	
SW version:	N/A	
HW version:	WM8750-1 ver:1.0	
使用電源	5Vdc from AC/DC adapter	
	Adapter:	Model No.: 6A-161WP05, Supplier: ENG Electronics

WLAN 2.4GHz:

Wi-Fi	發射頻帶	頻道數	輸出功率	Modulation Technology
11b/g	2412-2462	11	b: 21.29dBm g: 24.46dBm	DSSS, OFDM
11n	HT20 2412-2462	11	20.74dBm	OFDM
11n	HT40 2422-2452	7	18.75dBm	OFDM
天線型式/天線增益	Dipole Antenna, Gain: 2.0dBi P/N: AN2450-4828RS, Supplier: N/A			
調變方式:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:	802.11 b: up to 11 Mbps; 802.11 g: up to 54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 135Mbps			

本報告針對WiFi 2.4GHz (b/g/n20/n40)頻段測試。

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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。

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	

*測試模式-Radiated

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11g	1 to 11	1,6,11	OFDM	6

RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1
802.11g	1 to 11	1, 6, 11	OFDM	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0

*測試模式-Conducted

CONDUCTED TEST :				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
For 2.4 GHz				
802.11b	1 to 11	1,6,11	DSSS	1
802.11g	1 to 11	1,6,11	OFDM	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	6.5
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0

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1.3 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, 105.8.23 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節(5)	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節(3)(3.1)	請參閱7.2節	-----	合格
4	發射頻寬	低功率射頻電機技術規範 3.10.1節(6.2.1)	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節(2.3)	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節(5)	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節(6.2.2)	請參閱11.3節	請參閱4.2節	合格

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2 適用規範

2.1 規範要求 (一般規定)

(1) 傳導之規定

依據NCC低功率射頻電機技術規範之2.3節，以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150 kHz 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節(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(兆赫)	頻率(兆赫)	頻率(兆赫)
0.090 - 0.110	162.01 - 167.17	3500.0 - 4400.0
0.490 - 0.510	167.72 - 173.20	4500.0 - 5250.0
2.172 - 2.198	240.00 - 285.00	5350.0 - 5460.0
3.013 - 3.033	322.00 - 335.40	7250.0 - 7750.0
4.115 - 4.198	399.90 - 410.00 (註 1)	8025.0 - 8500.0
5.670 - 5.690	608.00 - 614.00	9000.0 - 9200.0
6.200 - 6.300	825.00 - 915.00	9300.0 - 9500.0
8.230 - 8.400	935.00 - 1240.0	10600 - 12700
12.265 - 12.600	1300.0 - 1427.0	13250 - 13400
13.340 - 13.430	1435.0 - 1626.5	14470 - 14500
14.965 - 15.020	1660.0 - 1755.0	15350 - 16200
16.700 - 16.755	1805.0 - 1850.0	17700 - 21400
19.965 - 20.020	2200.0 - 2300.0	22010 - 23120
25.500 - 25.700	2310.0 - 2390.0	23600 - 24000
37.475 - 38.275	2483.5 - 2500.0	31200 - 31800
73.500 - 75.400	2655.0 - 2900.0	36430 - 36500
108.00 - 138.00	3260.0 - 3267.0	38600 以上 (註 2)
149.90 - 150.05	3332.0 - 3339.0	
156.70 - 156.90	3345.8 - 3358.0	

註 1：402MHz-405MHz MICS 器材（第 4.11 節）除外。

註 2：76GHz-77GHz車輛雷達感測系統器材（第3.13節）除外。

- (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 節(2.3)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節(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節(3)(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節(3)(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節(3)(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節(5)之規定，使用頻帶範圍外之任意100千赫 (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100千赫 (kHz)內的射頻功率，至少須衰減20 dB，以射頻傳導或輻射方式測量。如發射機以本節 3.10.1(2)(2.3)之峰值傳導輸出功率量測方式者，至少須衰減30 dB。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。

(D) 頻寬之要求

依據NCC低功率射頻電機技術規範3.10.1節之(6.2.1)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節之(6.2.2)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。

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3 受測裝置之系統說明

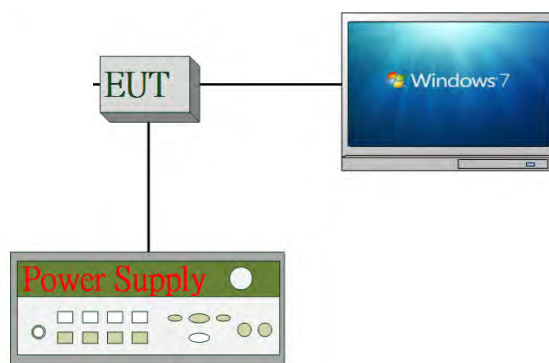
裝置名稱	製造者/申請者	型號
* Wireless Interactive Presentation Gateway	Barco NV / Barco NV	WiPG-1600w

標記: “*”表欲申請之受測物。

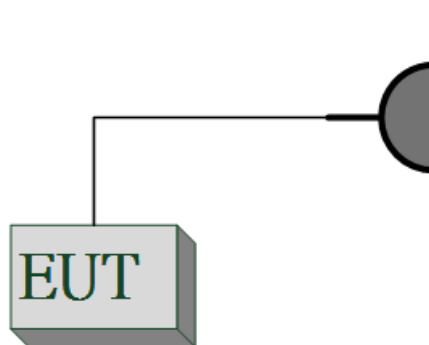
3.1 待測物與測試設備系統圖

3.1.1 量測配置圖

Conducted (Antenna Port)



Radiated Emission & Conduction



3.2 輔助測試週邊設備名稱描述

編號	產品別	商標	型號	序號	信號線	電源線
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	R400	7440AV6	shielded	Un-shielded
3.	DC Power Supply	Agilent	E3634A	MY53180030	N/A	N/A

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4 量測儀器設備

4.1 AC 電源端傳導干擾之量測儀器

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	02/07/2016	02/06/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017
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

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/13/2016	04/12/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/03/2016	05/02/2017

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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4.3 量測場強輻射之量測儀器

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/12/2014	04/11/2015
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2014	12/08/2015
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015
Horn Antenna	ETS-Lindgren	3160-10	00117783	11/13/2014	11/12/2015
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/31/2014	05/30/2015
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2015	07/23/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-26	100780	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016

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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5 電源線傳導干擾之量測

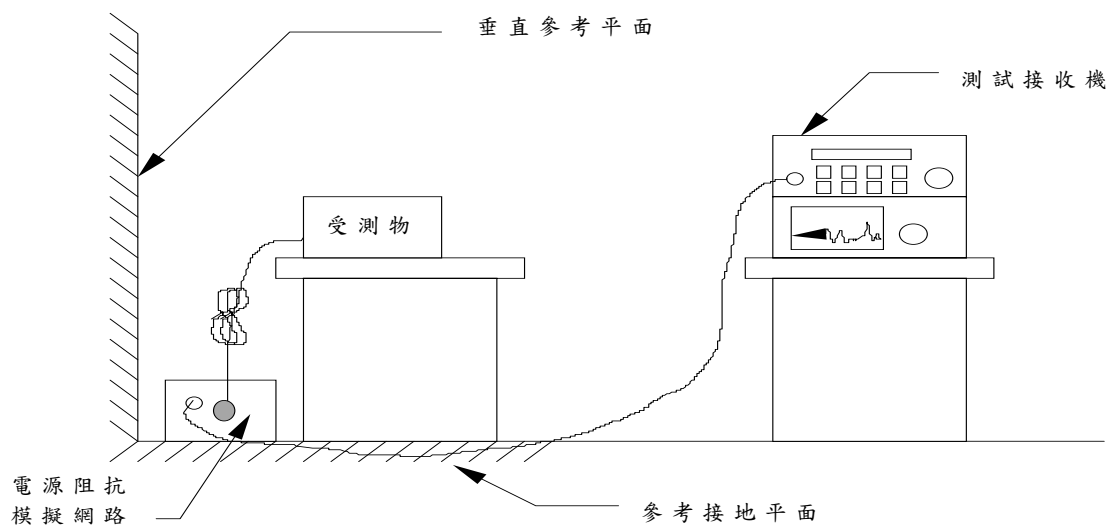
5.1 適用標準

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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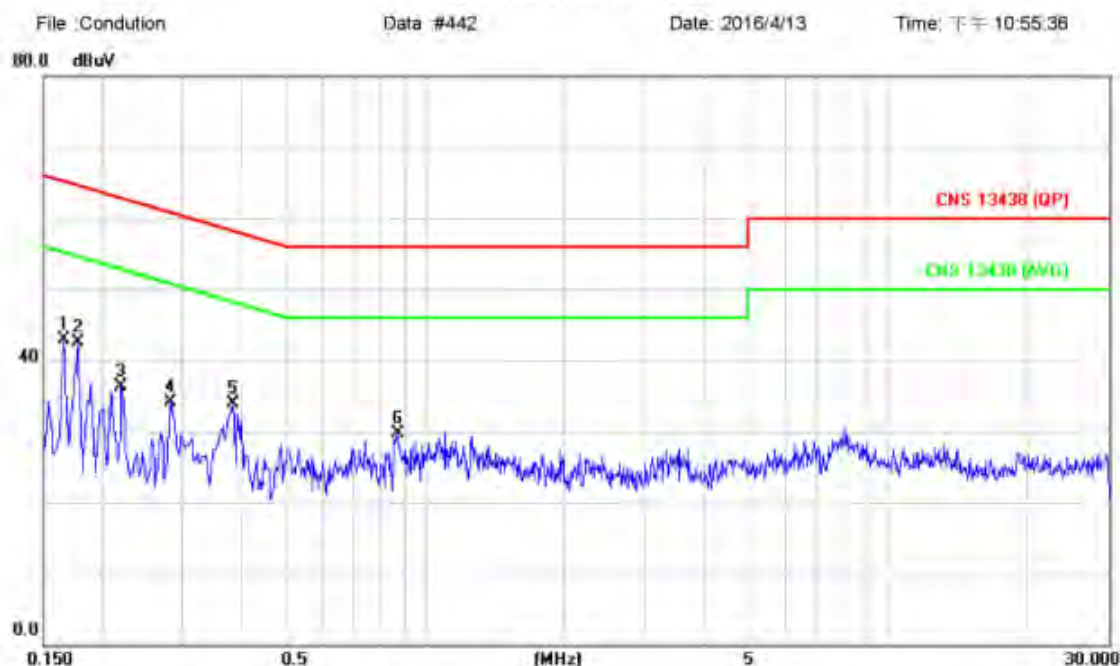
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5.5 傳導干擾之量測結果

測試設備: Wireless Interactive Presentation Gateway
 型號: WiPG-1600w
 6dB 頻寬: 10 kHz
 視訊頻寬: 10 kHz
 量測天線: N/A
 檢測器: Average/Quasi-Peak
 測試者: 黃凱恩
 測試日期: 04/13/2016
 Model No.: 6A-161WP05
 Probe: L1/N

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1660	23.34	19.58	42.92	65.16	-22.24	peak	
2 *		0.1780	23.03	19.56	42.59	64.58	-21.99	peak	
3		0.2220	16.75	19.57	36.32	62.74	-26.42	peak	
4		0.2820	14.43	19.63	34.06	60.76	-26.70	peak	
5		0.3860	14.15	19.70	33.85	58.15	-24.30	peak	
6		0.8740	9.85	19.76	29.61	56.00	-26.39	peak	

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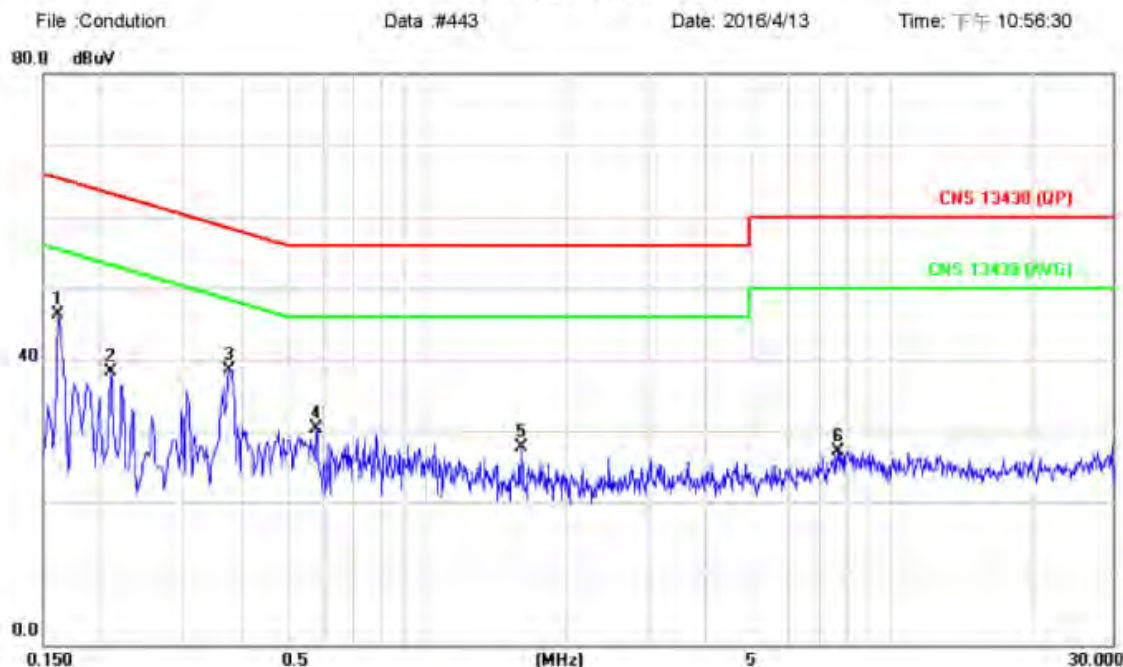
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Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1620	26.62	19.59	46.21	65.36	-19.15	peak	
2		0.2100	18.75	19.56	38.31	63.21	-24.90	peak	
3		0.3780	18.87	19.71	38.58	58.32	-19.74	peak	
4		0.5820	10.48	19.80	30.28	56.00	-25.72	peak	
5		1.6020	7.75	19.89	27.64	56.00	-28.36	peak	
6		7.7220	7.38	19.82	27.20	60.00	-32.80	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節(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。

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

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector

註: 經評估後，比較H Plan、E1 Plan和E2 Plan測試值後發現E2 Plan為最差模式，故附上最差模式 E2 Plan 數據。

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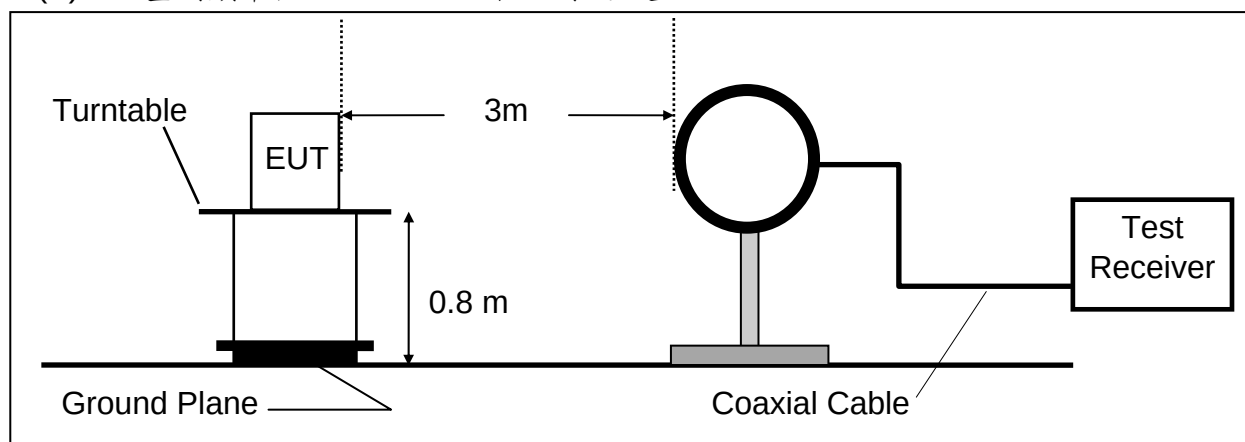
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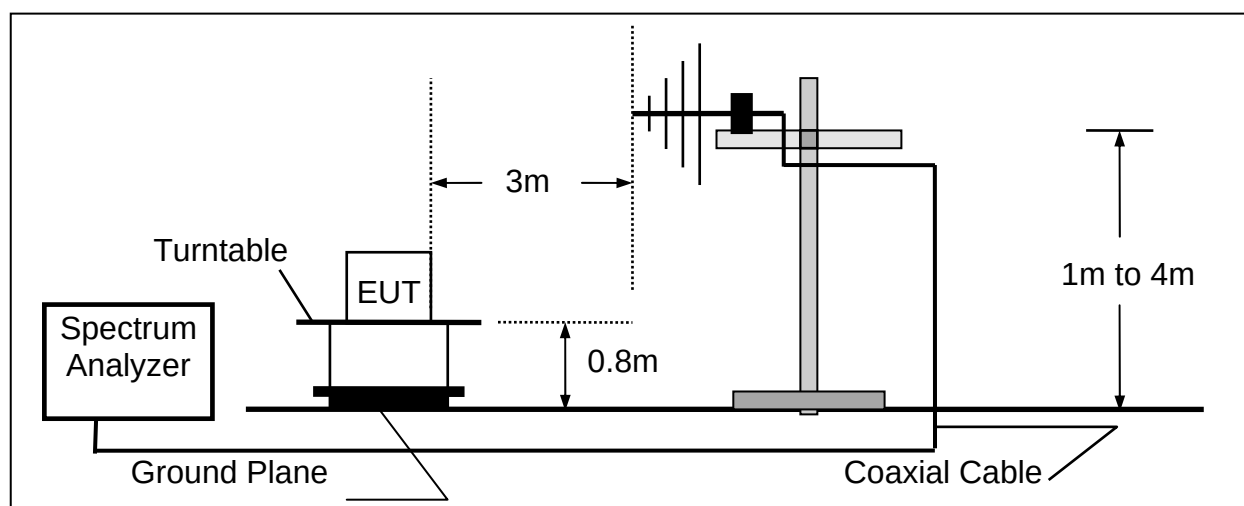
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6.4 輻射之測試配置

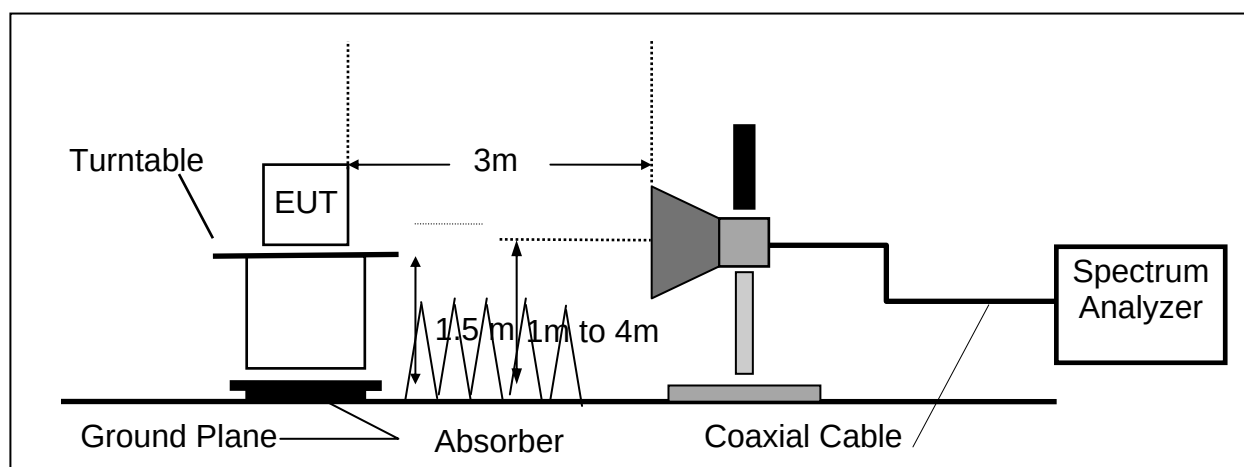
(A) 量測頻率低於 30MHz 以下之測試配置



(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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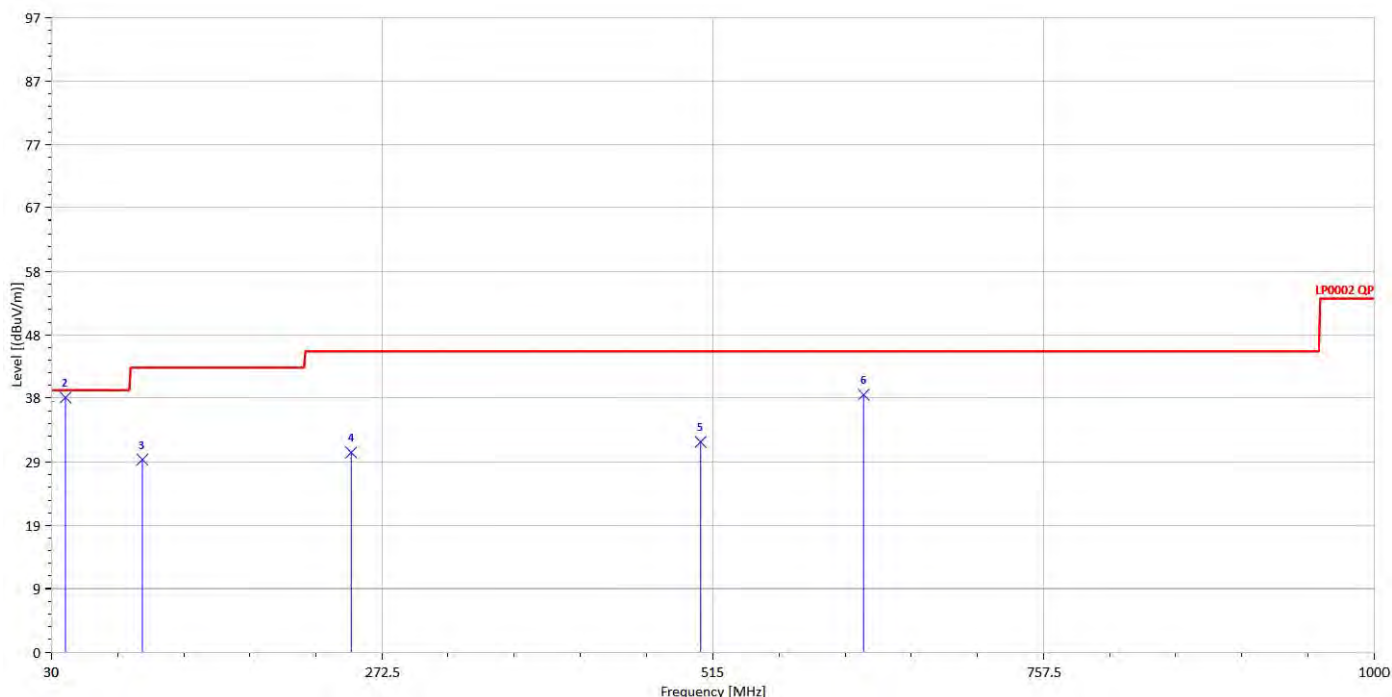
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6.5 場強輻射之量測結果

6.5.1 802.11g / 6Mbps 發射模式 1GHz 以下測試

Operation Mode : 802.11g Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
30.00	S	QP	49.67	-13.11	36.56	40	-3.44
40.67	S	QP	58.30	-19.43	38.87	40	-1.13
96.93	S	QP	53.80	-24.36	29.44	43.5	-14.06
250.19	S	Peak	50.98	-20.45	30.54	46	-15.46
506.27	S	Peak	46.22	-14.06	32.16	46	-13.84
625.58	S	Peak	51.37	-12.06	39.31	46	-6.69

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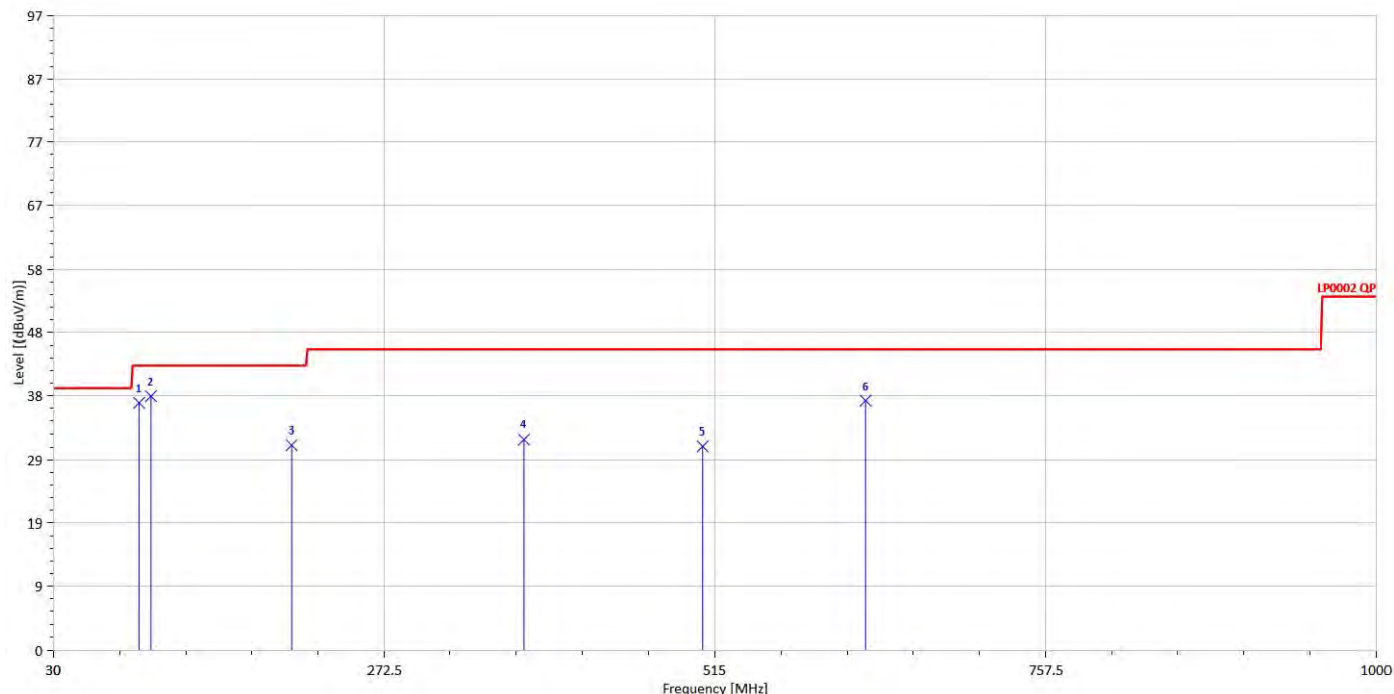
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Operation Mode : 802.11g Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
93.05	S	QP	62.80	-25.06	37.74	43.5	-5.76
101.78	S	QP	62.30	-23.54	38.76	43.5	-4.74
204.60	S	Peak	54.41	-23.06	31.35	43.5	-12.16
375.32	S	Peak	48.88	-16.68	32.20	46	-13.80
506.27	S	Peak	45.22	-14.06	31.16	46	-14.84
625.58	S	Peak	50.15	-12.06	38.09	46	-7.91

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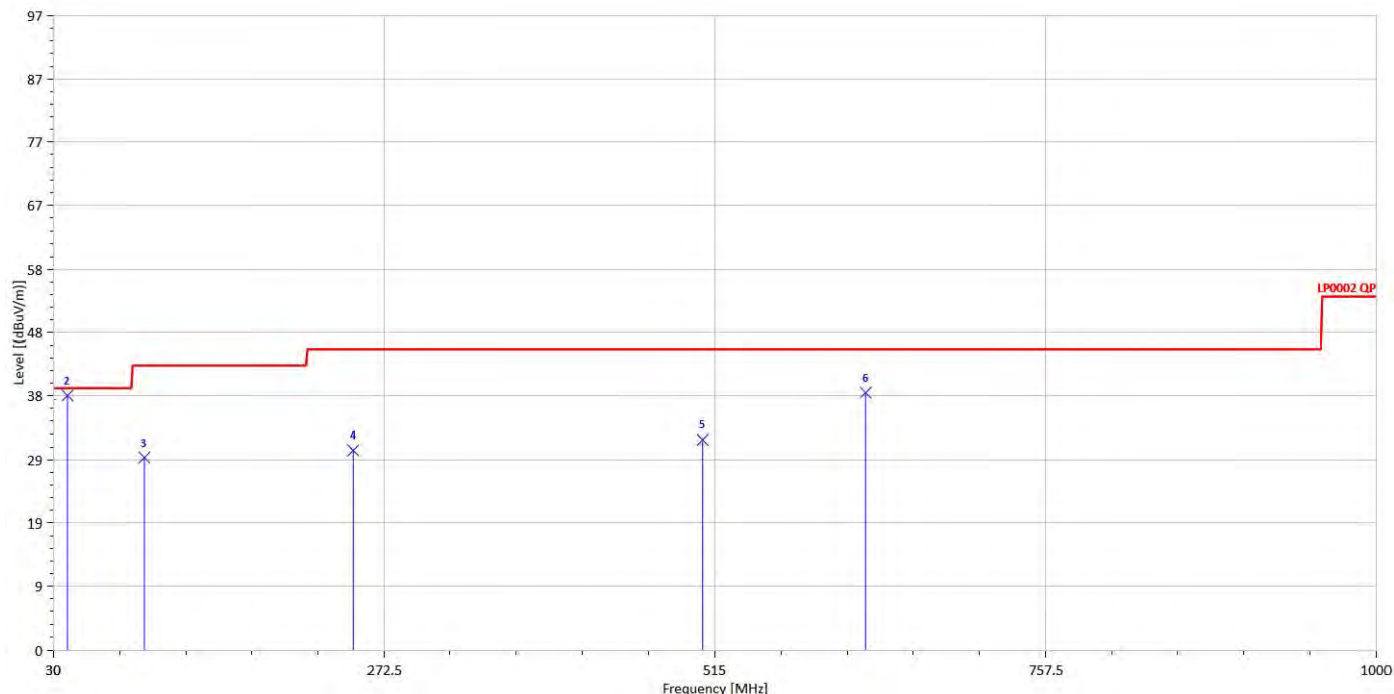
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Operation Mode : 802.11g Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
30.00	S	QP	49.67	-13.11	36.56	40	-3.44
40.67	S	QP	58.30	-19.43	38.87	40	-1.13
96.93	S	QP	53.80	-24.36	29.44	43.5	-14.06
250.19	S	Peak	50.98	-20.45	30.54	46	-15.46
506.27	S	Peak	46.22	-14.06	32.16	46	-13.84
625.58	S	Peak	51.37	-12.06	39.31	46	-6.69

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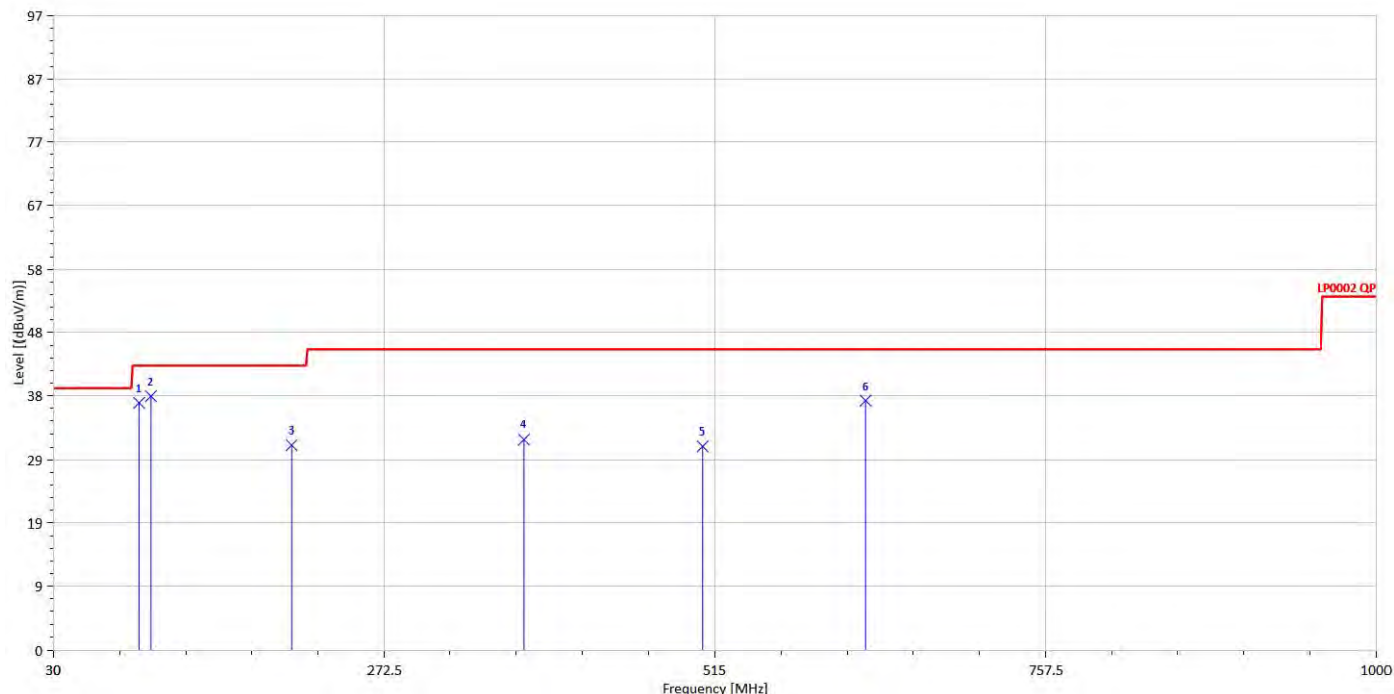
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Operation Mode : 802.11g Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
93.05	S	QP	62.80	-25.06	37.74	43.5	-5.76
101.78	S	QP	62.30	-23.54	38.76	43.5	-4.74
204.60	S	Peak	54.41	-23.06	31.35	43.5	-12.16
375.32	S	Peak	48.88	-16.68	32.20	46	-13.80
506.27	S	Peak	45.22	-14.06	31.16	46	-14.84
625.58	S	Peak	50.15	-12.06	38.09	46	-7.91

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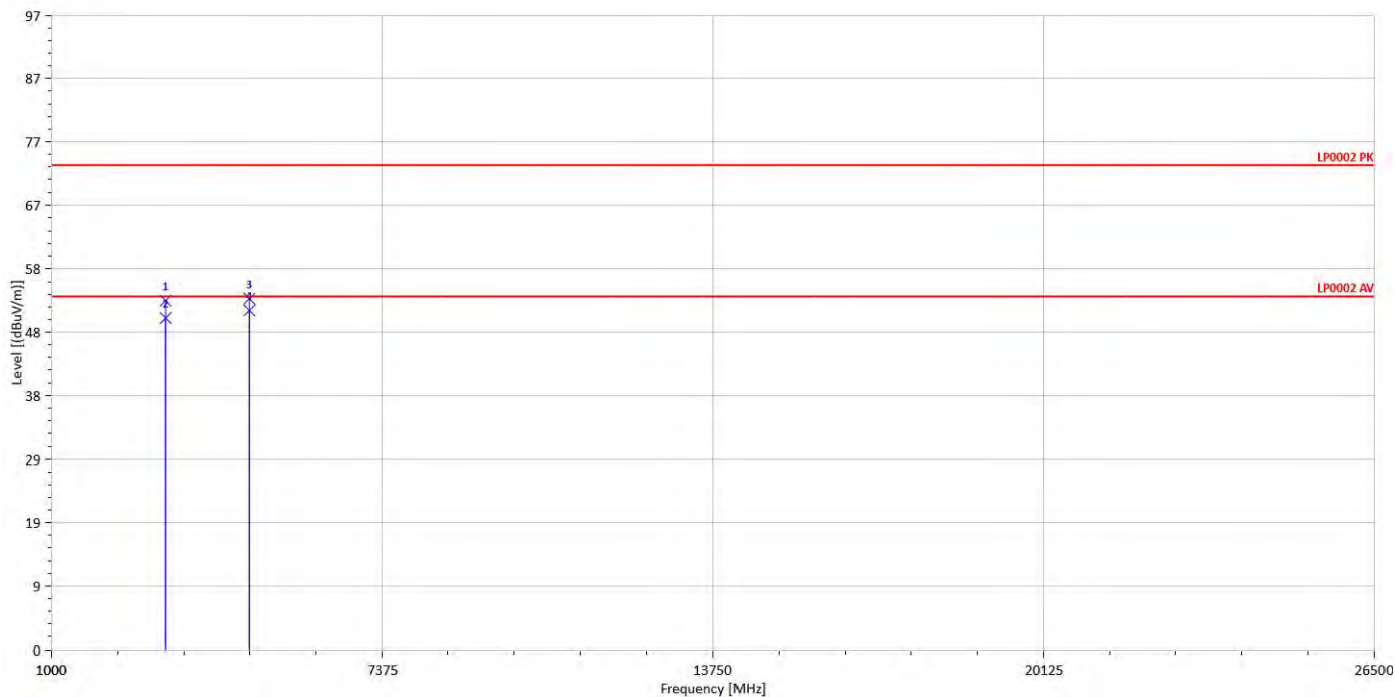
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6.5.2 802.11b / 1Mbps 發射模式 1GHz 以上測試

Operation Mode :	802.11b	Test Date :	2015/3/9
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
3212.00	S	Peak	45.41	7.95	53.36	74	-20.64
3212.00	S	Average	42.73	7.95	50.68	54	-3.32
4824.00	H	Peak	42.70	10.97	53.67	74	-20.33
4824.00	H	Average	40.88	10.97	51.85	54	-2.15

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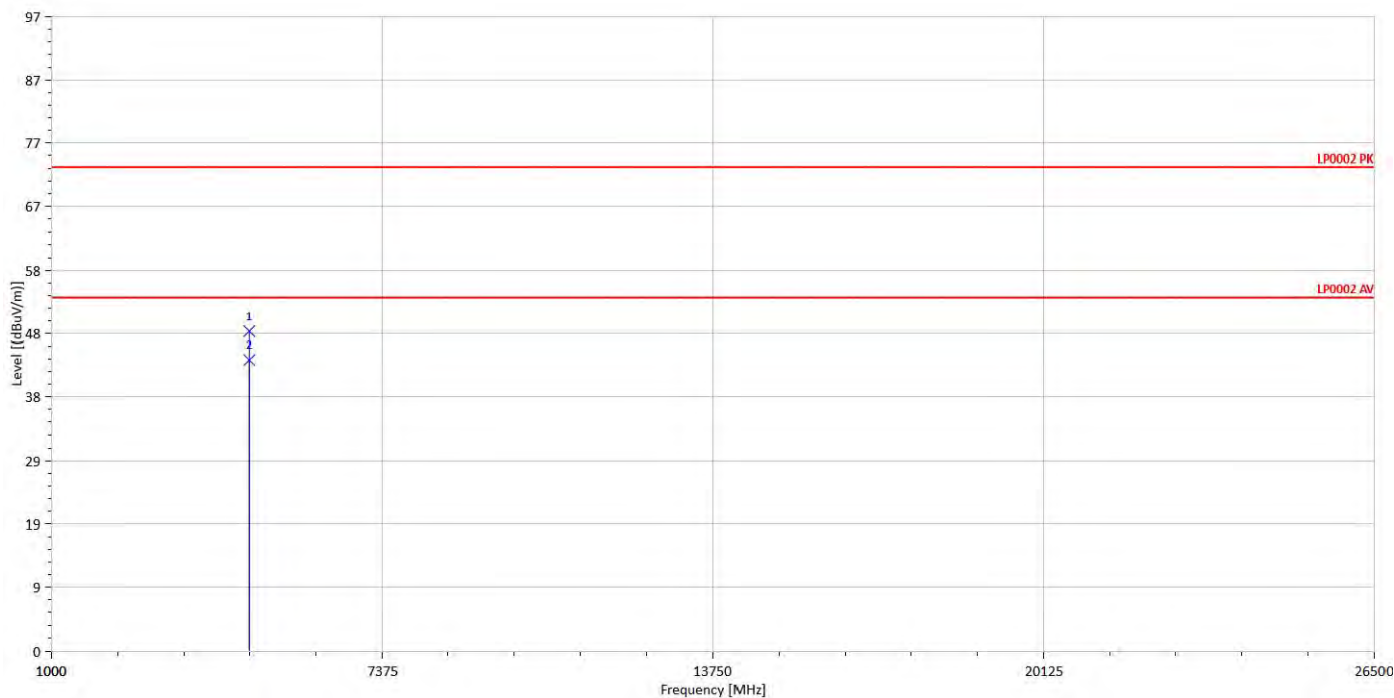
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Operation Mode : 802.11b Test Date : 2015/3/9
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH LOW Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	H	Peak	37.86	10.97	48.83	74	-25.17
4824.00	H	Average	33.52	10.97	44.49	54	-9.51

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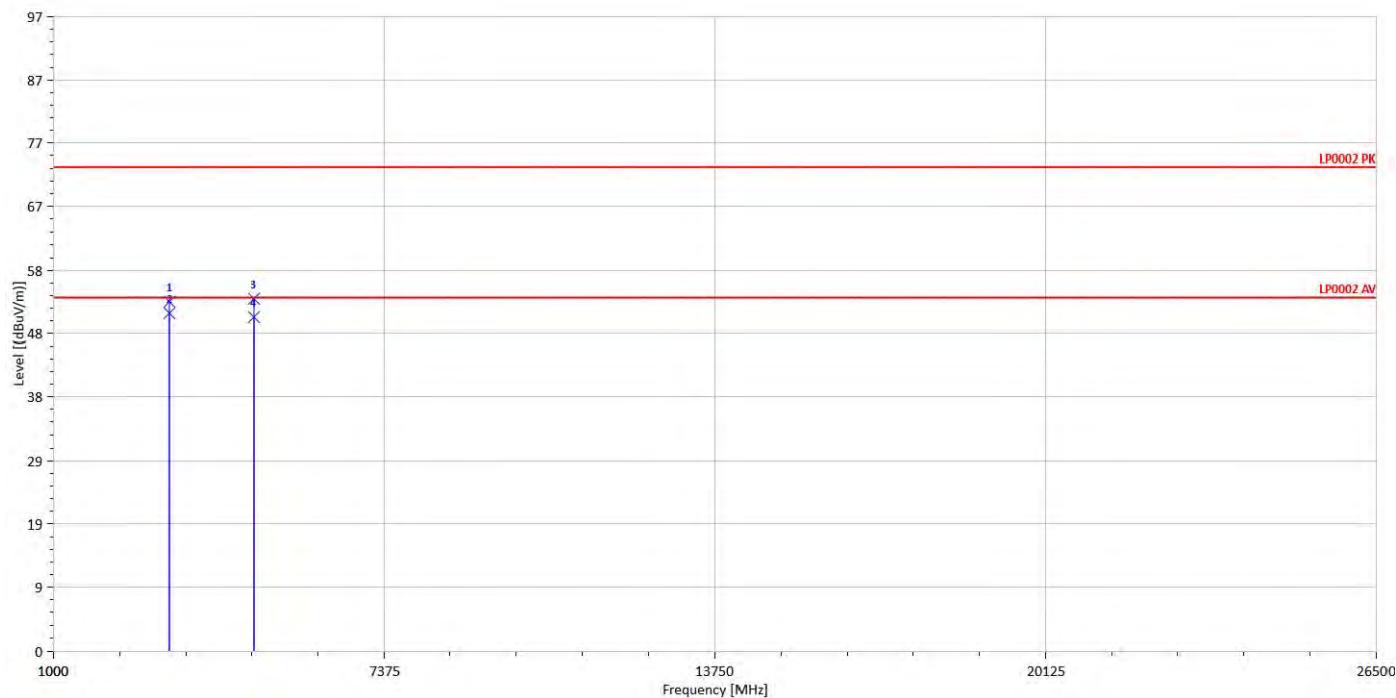
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Operation Mode : 802.11b Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
3247.00	S	Peak	45.19	8.18	53.37	74	-20.63
3247.00	S	Average	43.42	8.18	51.60	54	-2.40
4874.00	H	Peak	42.94	10.89	53.83	74	-20.17
4874.00	H	Average	40.09	10.89	50.98	54	-3.02

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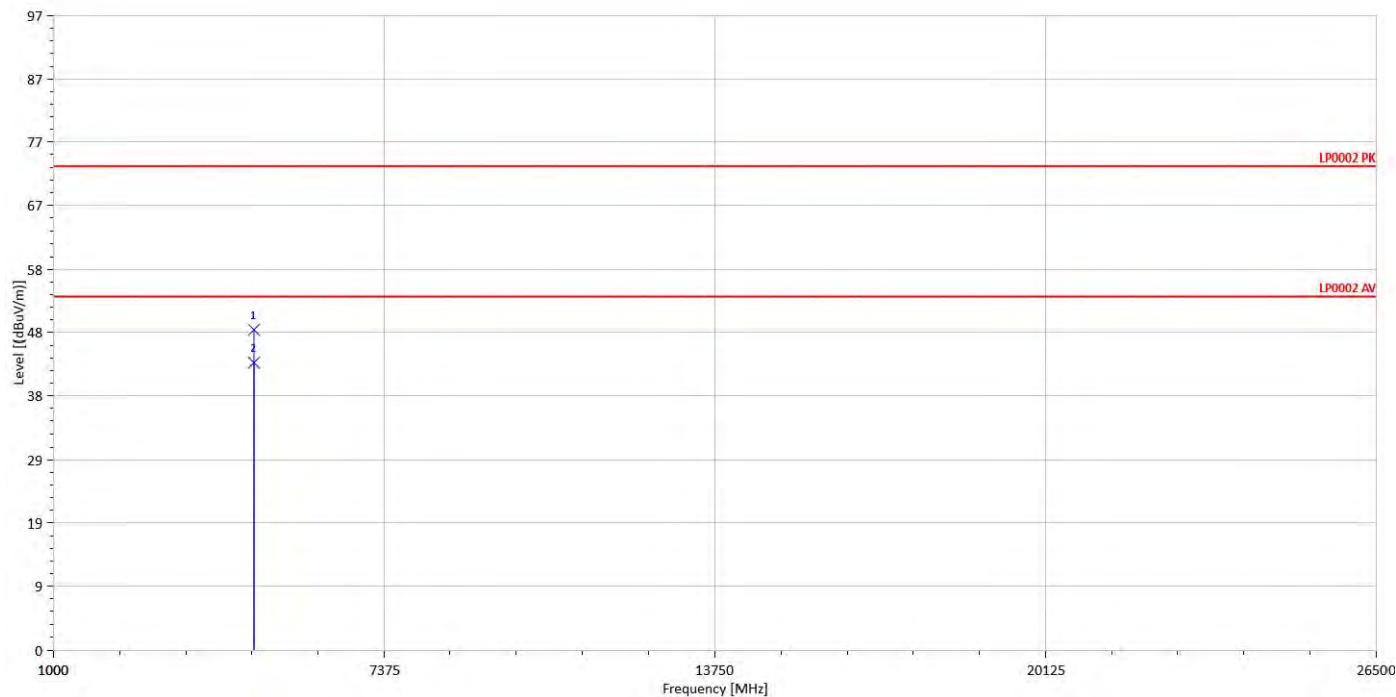
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Operation Mode : 802.11b Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.00	H	Peak	37.97	10.90	48.87	74	-25.13
4874.00	H	Average	33.04	10.90	43.94	54	-10.06

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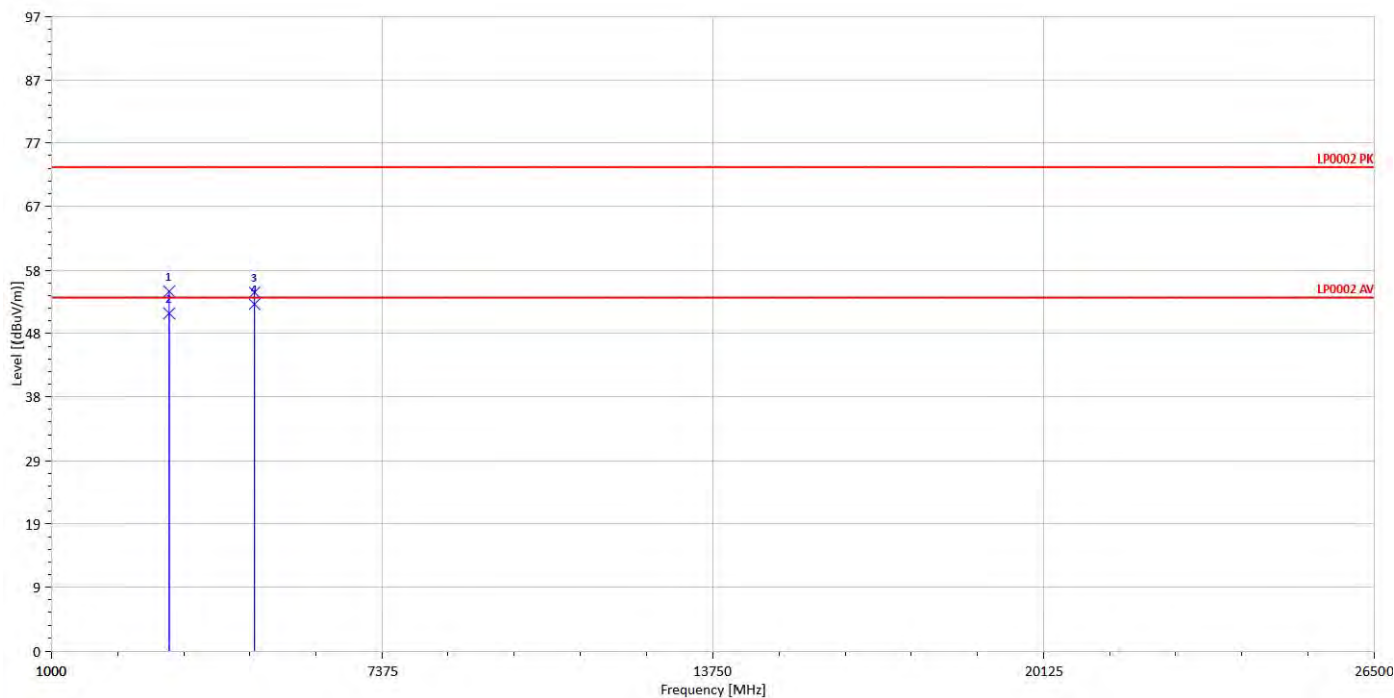
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Operation Mode :	802.11b	Test Date :	2015/3/9
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
3282.00	S	Peak	46.88	8.08	54.96	74	-19.04
3282.00	S	Average	43.48	8.08	51.56	54	-2.44
4924.00	H	Peak	43.84	10.98	54.82	74	-19.18
4924.00	H	Average	42.01	10.98	52.99	54	-1.01

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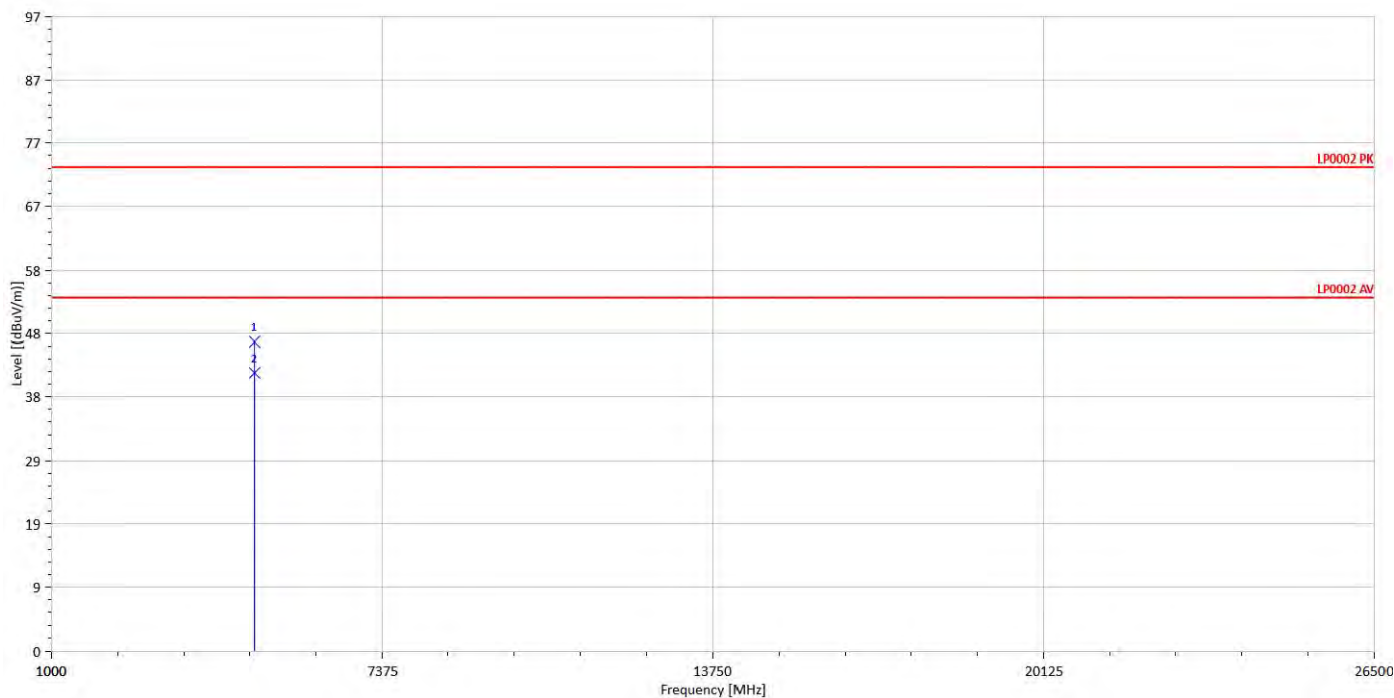
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Operation Mode :	802.11b	Test Date :	2015/3/9
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	H	Peak	36.27	10.98	47.25	74	-26.75
4924.00	H	Average	31.54	10.98	42.52	54	-11.48

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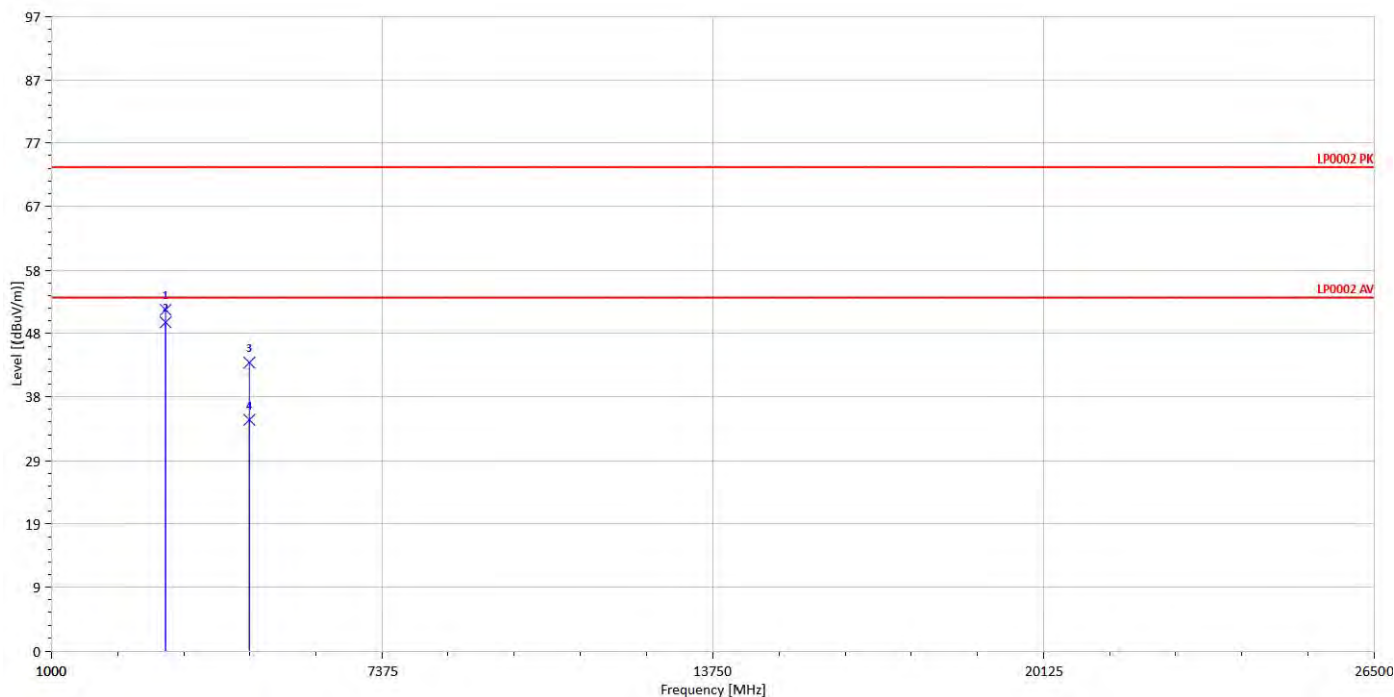
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6.5.3 802.11g / 6Mbps 發射模式 1GHz 以上測試

Operation Mode : 802.11g Test Date : 2015/3/9
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH LOW Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
3212.00	S	Peak	44.15	7.95	52.10	74	-21.90
3212.00	S	Average	42.23	7.95	50.18	54	-3.82
4824.00	H	Peak	33.14	10.97	44.11	74	-29.89
4824.00	H	Average	24.30	10.97	35.27	54	-18.73

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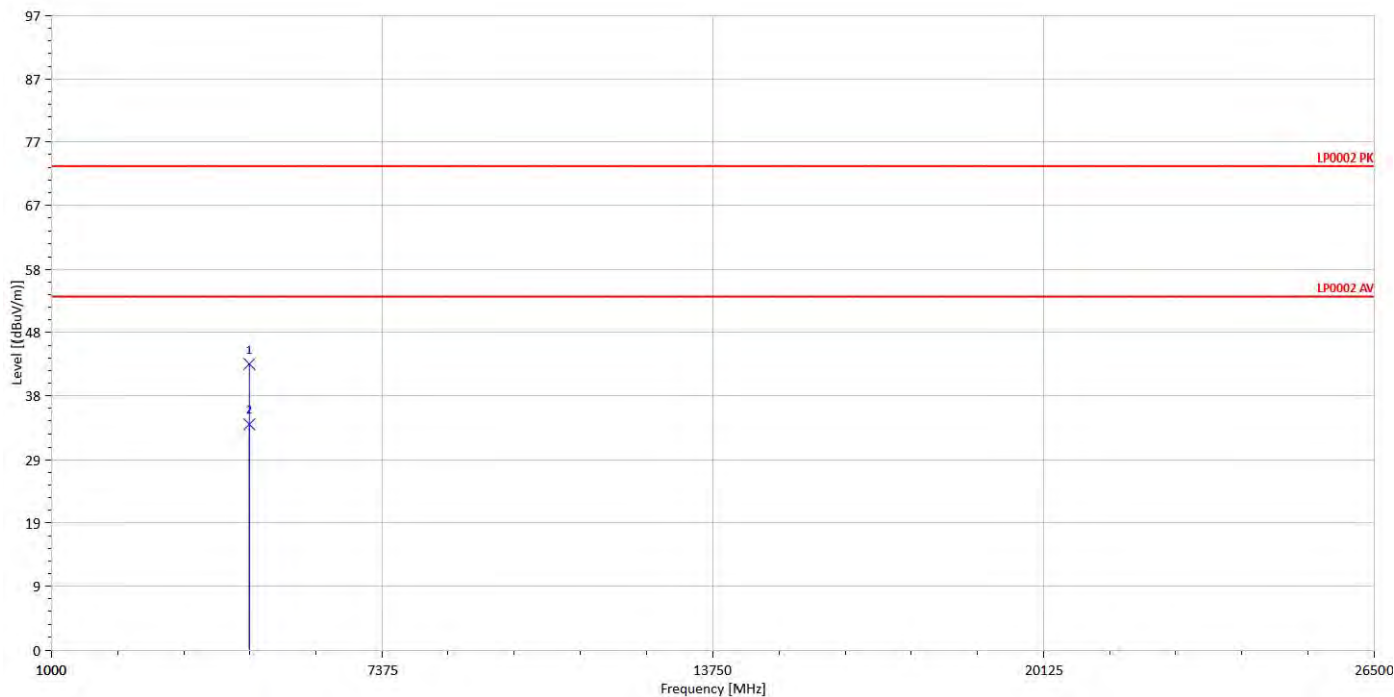
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Operation Mode :	802.11g	Test Date :	2015/3/9
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	H	Peak	32.77	10.97	43.74	74	-30.26
4824.00	H	Average	23.45	10.97	34.42	54	-19.58

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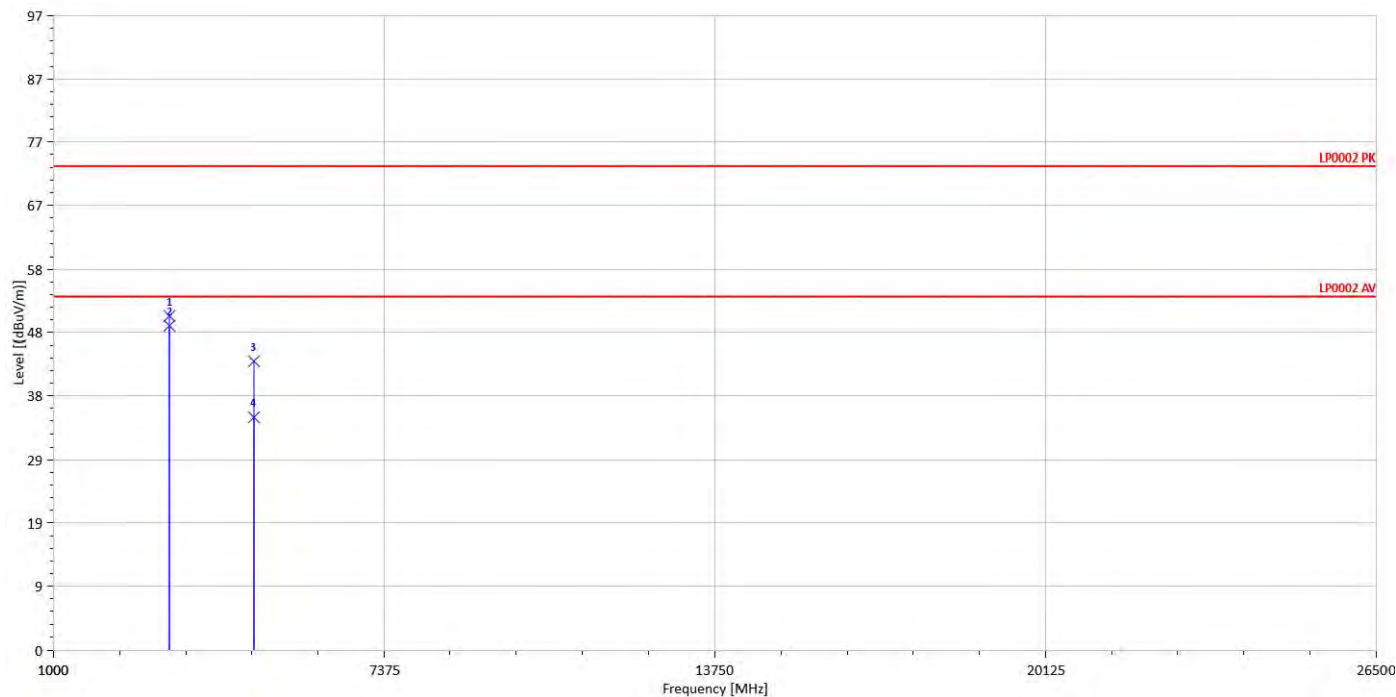
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Operation Mode : 802.11g Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
3247.00	S	Peak	42.85	8.18	51.03	74	-22.97
3247.00	S	Average	41.32	8.18	49.50	54	-4.50
4874.00	H	Peak	33.28	10.89	44.17	74	-29.83
4874.00	H	Average	24.61	10.89	35.50	54	-18.50

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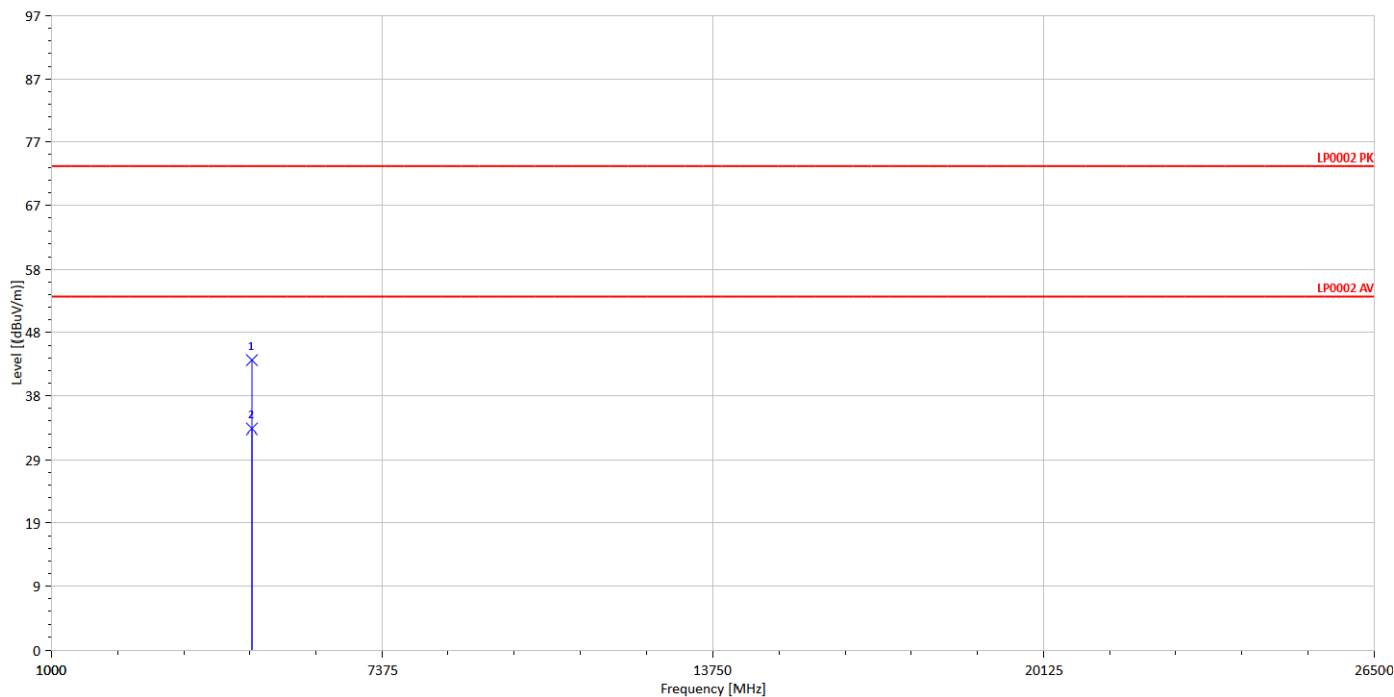
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Operation Mode : 802.11g Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	H	Peak	33.44	10.89	44.33	74	-29.67
4874.00	H	Average	22.89	10.89	33.78	54	-20.22

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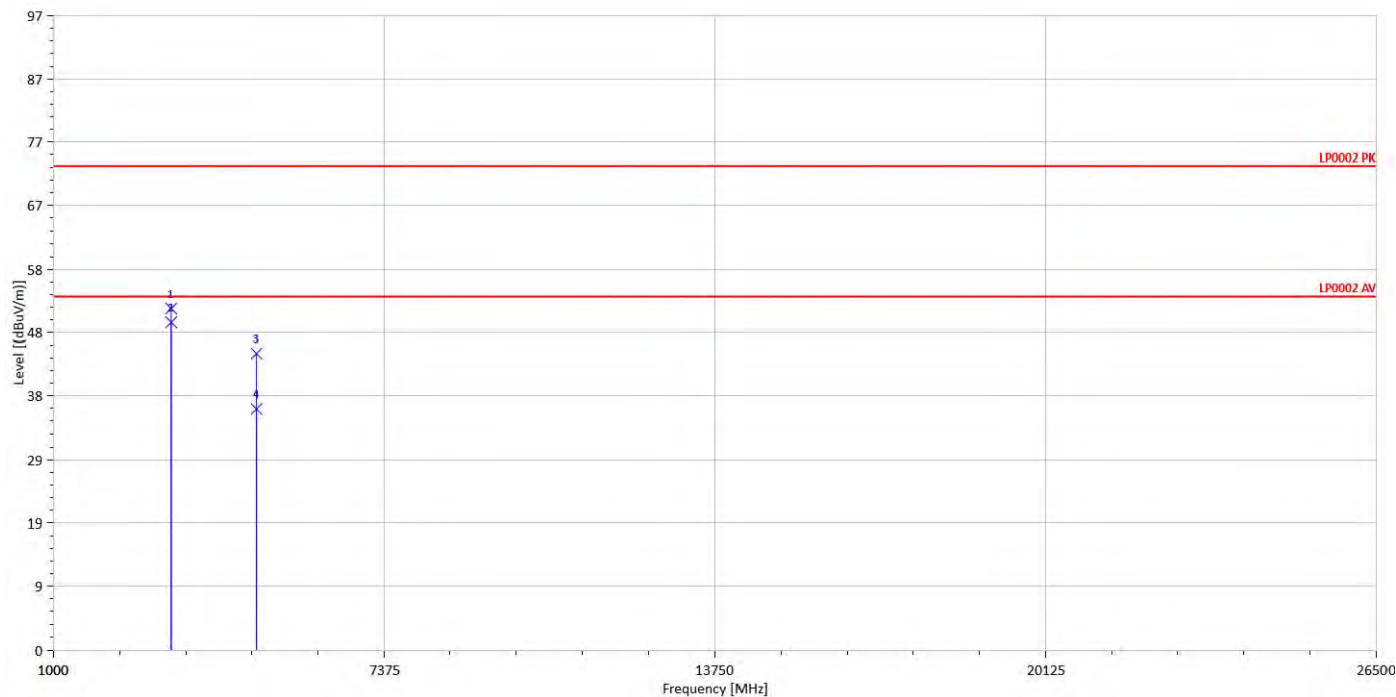
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Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
3282.00	S	Peak	44.07	8.08	52.15	74	-21.85
3282.00	S	Average	41.95	8.08	50.03	54	-3.97
4924.00	H	Peak	34.36	10.98	45.34	74	-28.66
4924.00	H	Average	25.81	10.98	36.79	54	-17.21

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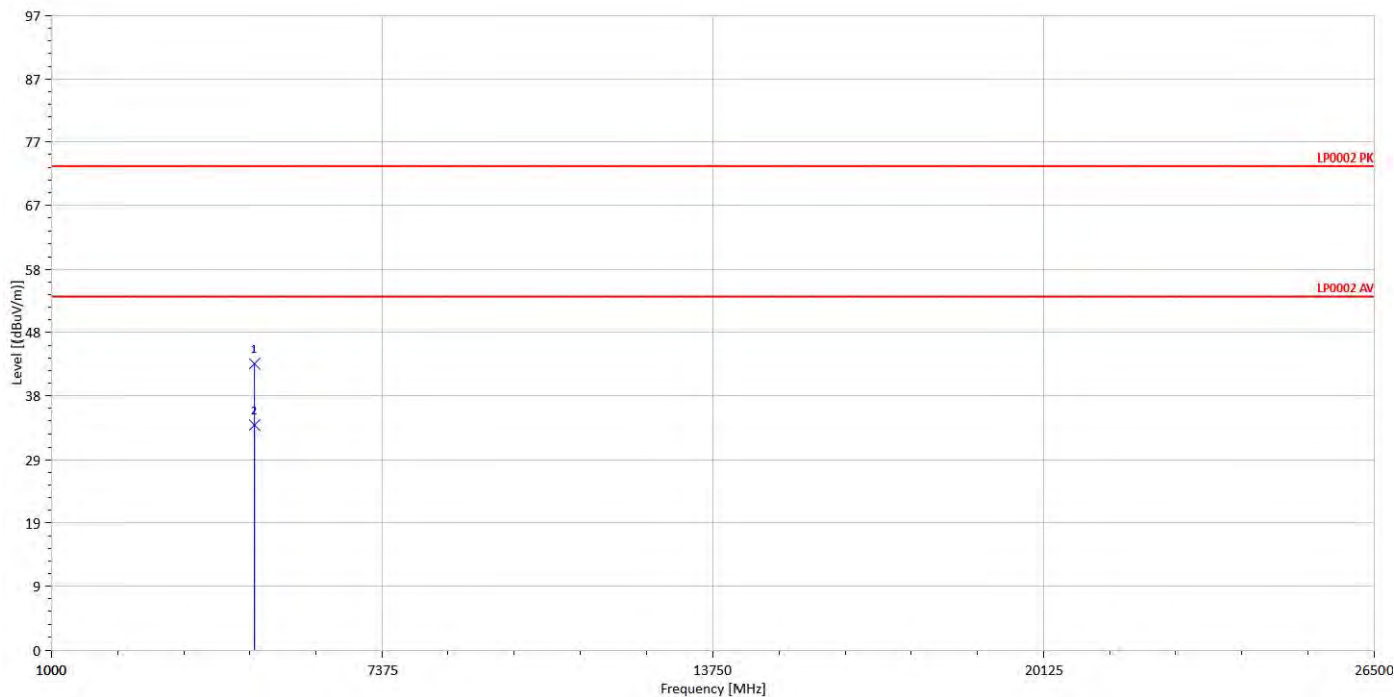
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Operation Mode :	802.11g	Test Date :	2015/3/9
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	H	Peak	32.80	10.98	43.77	74	-30.23
4924.00	H	Average	23.32	10.98	34.30	54	-19.70

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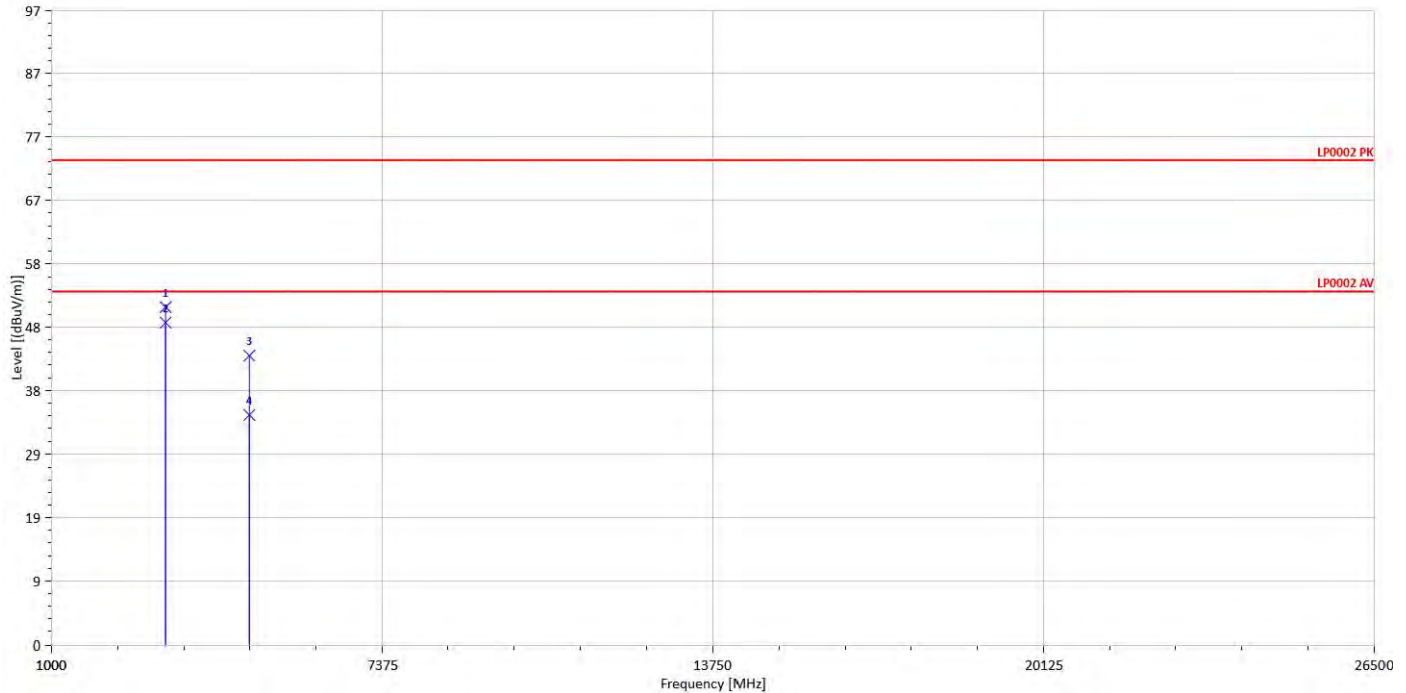
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6.5.4 802.11n HT20 / MCS0 發射模式 1GHz 以上測試

Operation Mode :	802.11n20	Test Date :	2015/3/9
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
3212.00	S	Peak	43.66	7.95	51.61	74	-22.39
3212.00	S	Average	41.25	7.95	49.20	54	-4.80
4824.00	H	Peak	33.13	10.97	44.10	74	-29.90
4824.00	H	Average	24.12	10.97	35.09	54	-18.91

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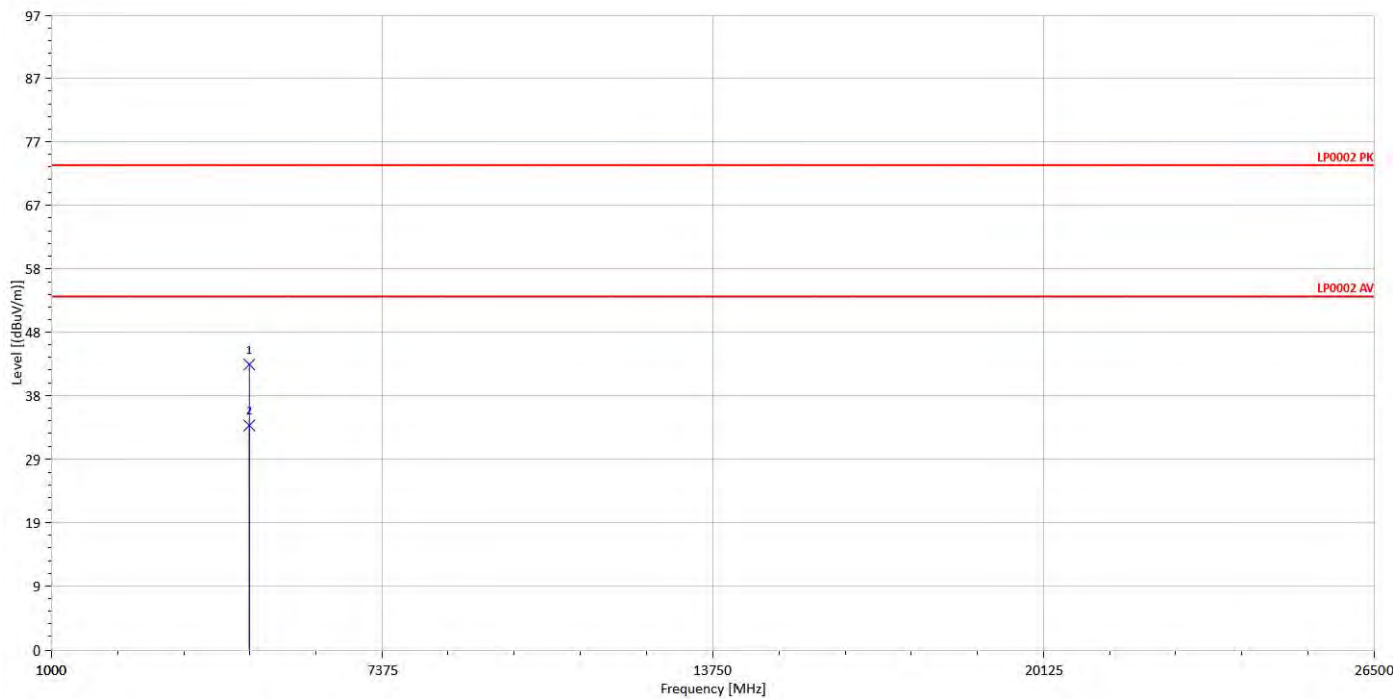
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Operation Mode :	802.11n20	Test Date :	2015/3/9
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	H	Peak	32.55	10.97	43.52	74	-30.48
4824.00	H	Average	23.27	10.97	34.24	54	-19.76

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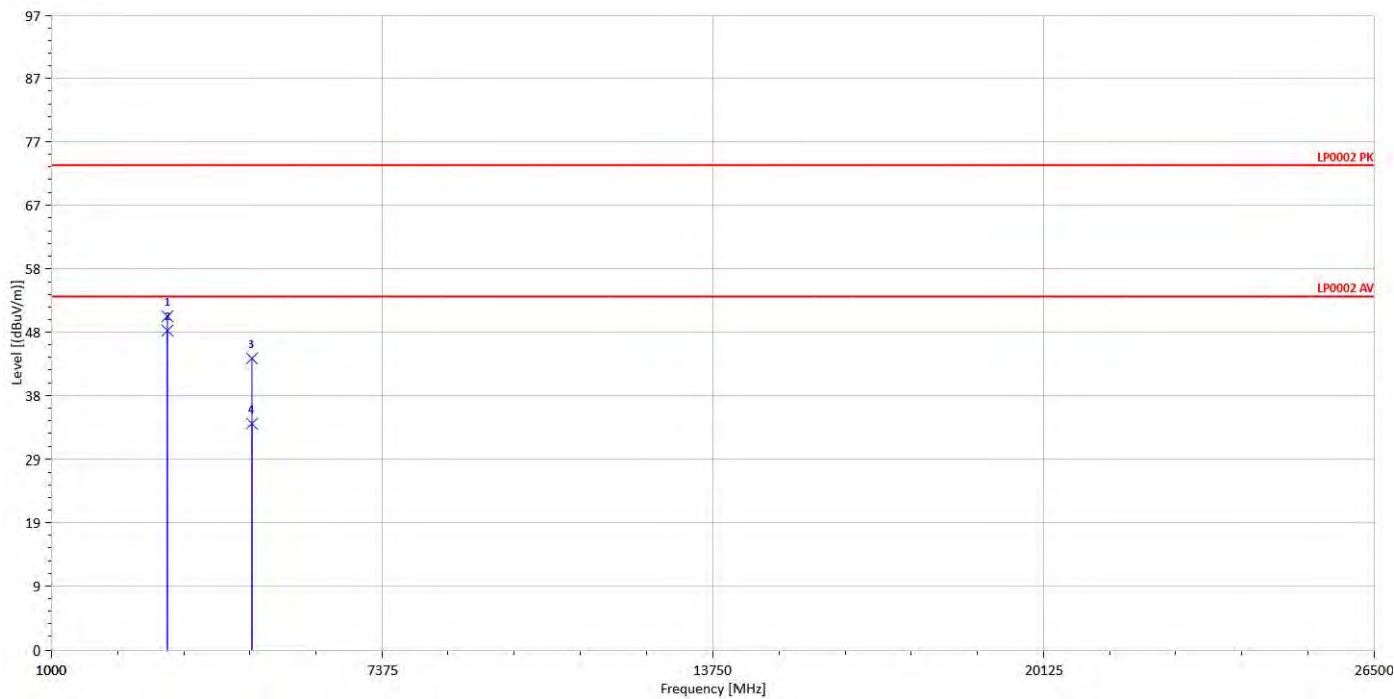
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Operation Mode : 802.11n20 Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
3247.00	S	Peak	42.77	8.18	50.95	74	-23.05
3247.00	S	Average	40.57	8.18	48.75	54	-5.25
4874.00	H	Peak	33.56	10.89	44.45	74	-29.55
4874.00	H	Average	23.63	10.89	34.52	54	-19.48

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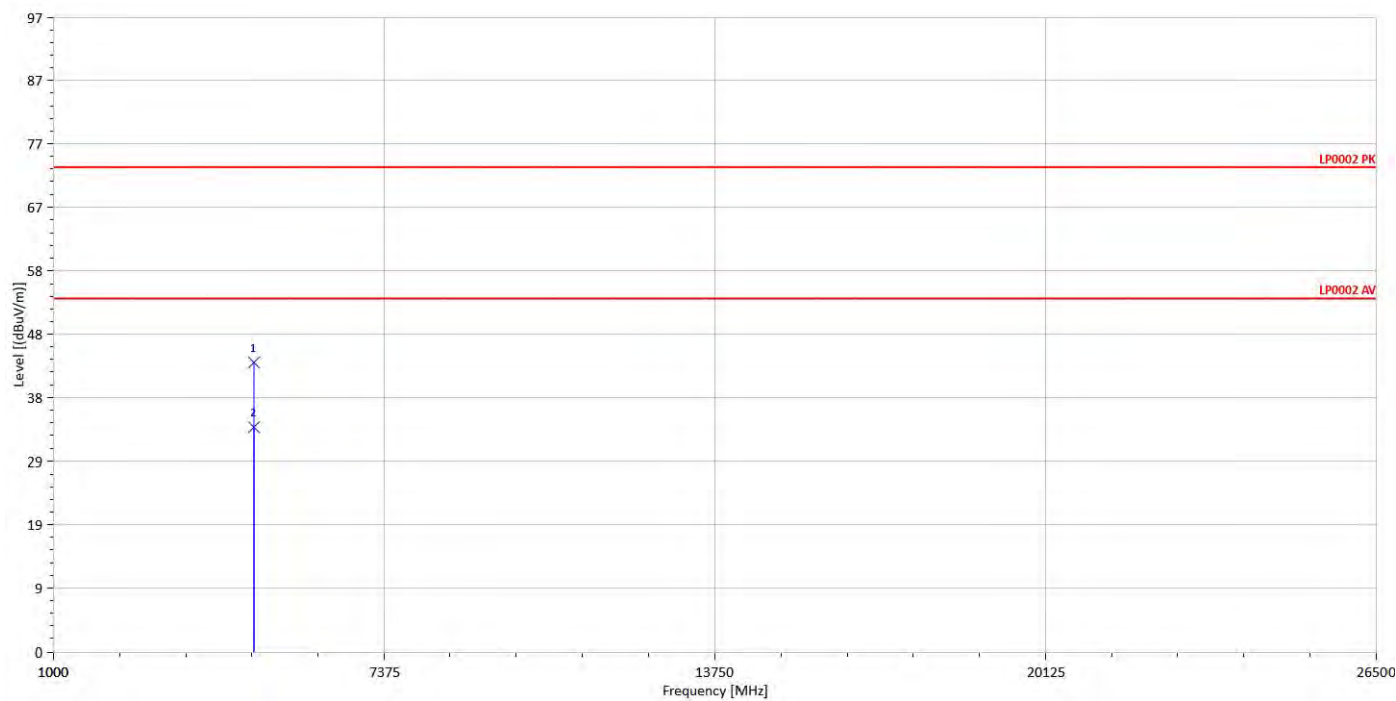
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Operation Mode : 802.11n20 Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	H	Peak	33.25	10.89	44.14	74	-29.86
4874.00	H	Average	23.39	10.89	34.28	54	-19.72

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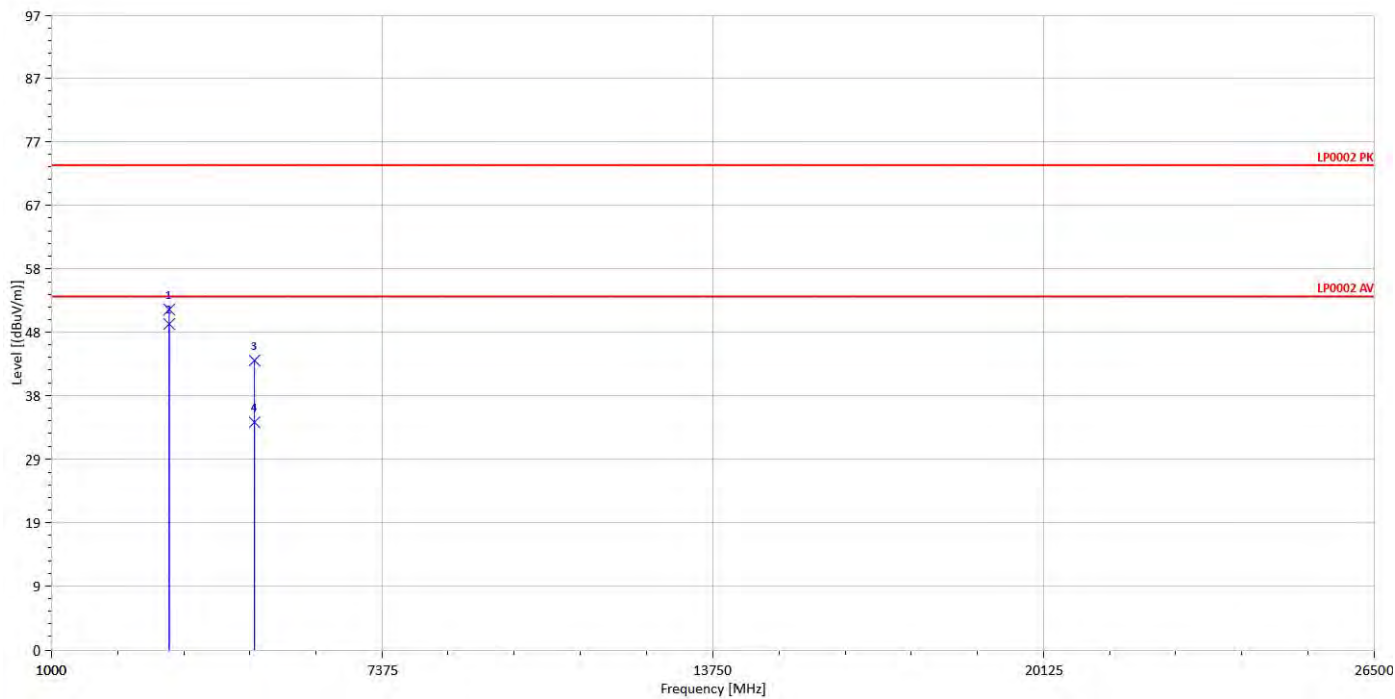
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Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
3282.00	S	Peak	43.92	8.08	52.00	74	-22.00
3282.00	S	Average	41.68	8.08	49.76	54	-4.24
4924.00	H	Peak	33.16	10.98	44.14	74	-29.86
4924.00	H	Average	23.75	10.98	34.73	54	-19.27

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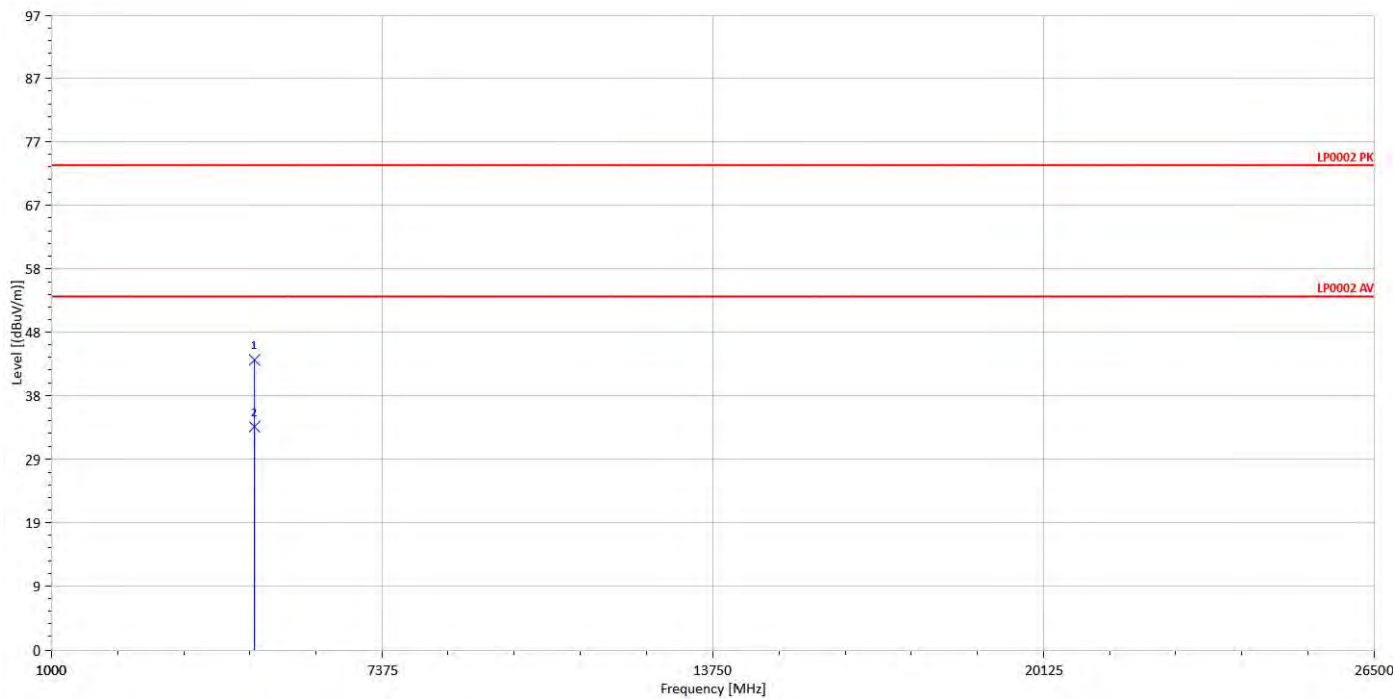
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Operation Mode :	802.11n20	Test Date :	2015/3/9
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	H	Peak	33.24	10.98	44.22	74	-29.78
4924.00	H	Average	23.07	10.98	34.05	54	-19.95

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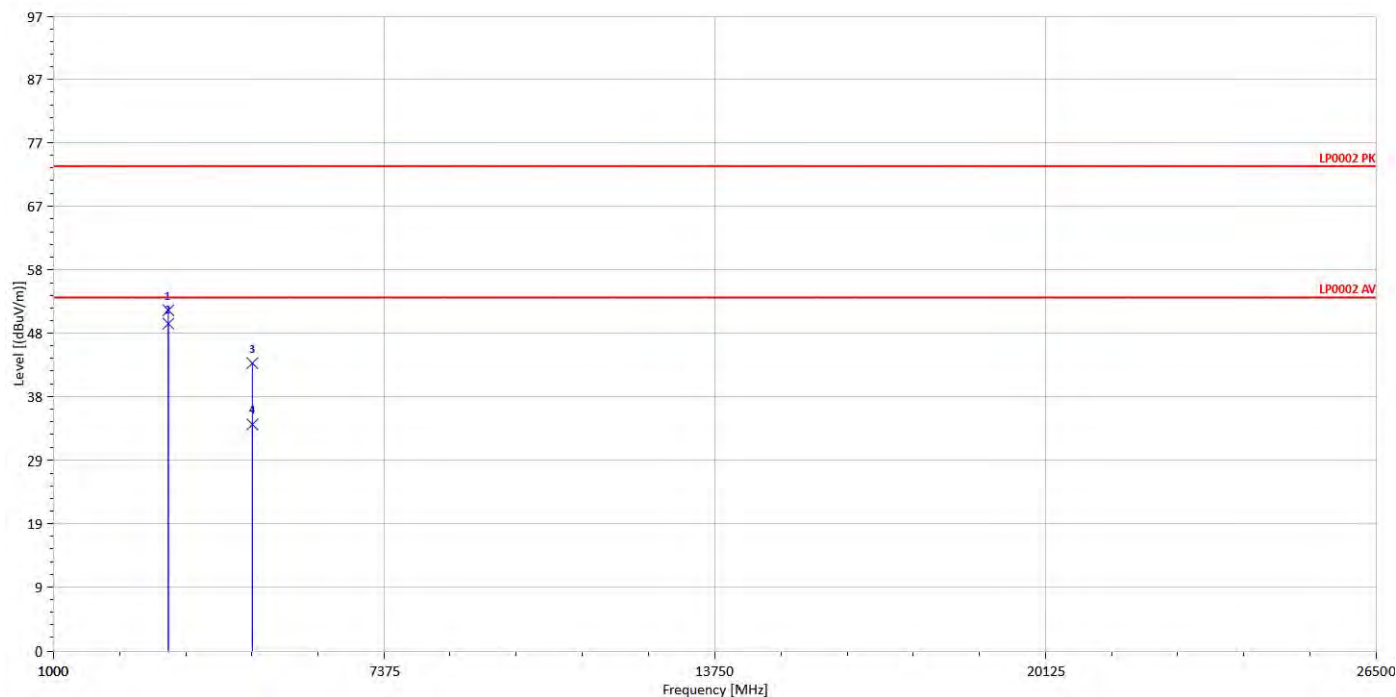
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6.5.5 802.11n HT40 /MCS0 發射模式 1GHz 以上測試

Operation Mode :	802.11n40	Test Date :	2015/3/9
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
3226.00	S	Peak	43.95	8.09	52.04	74	-21.96
3226.00	S	Average	41.87	8.09	49.96	54	-4.04
4844.00	H	Peak	32.93	10.93	43.86	74	-30.14
4844.00	H	Average	23.63	10.93	34.56	54	-19.44

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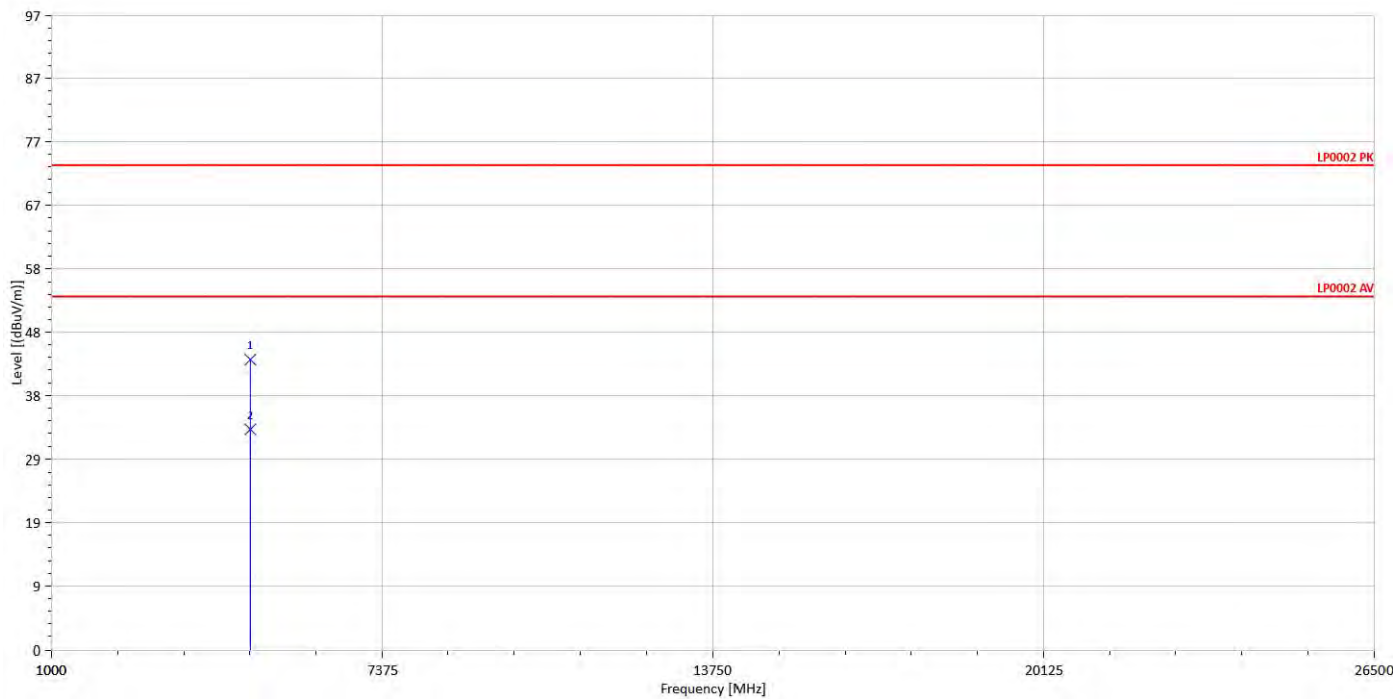
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Operation Mode :	802.11n40	Test Date :	2015/3/9
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBuV		dBuV/m	dBuV/m	
4844.00	H	Peak	33.34	10.93	44.27	74	-29.73
4844.00	H	Average	22.71	10.93	33.64	54	-20.36

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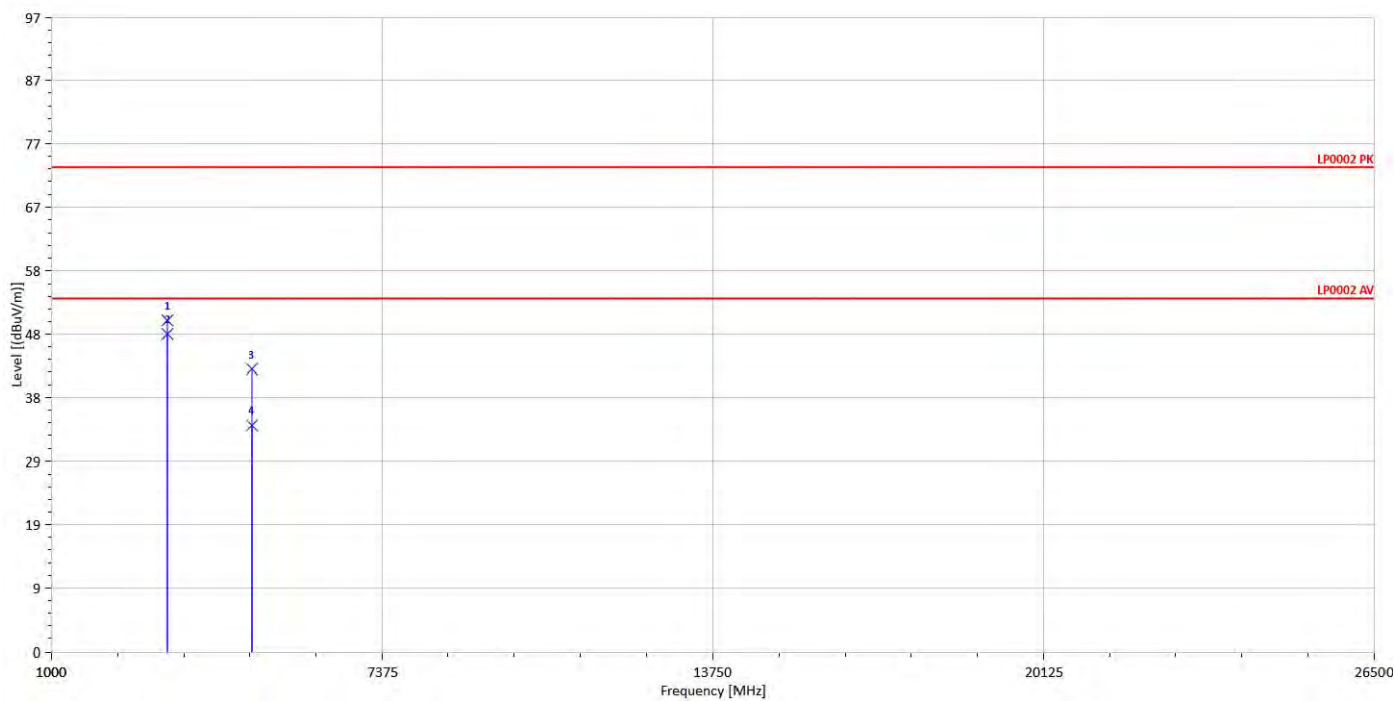
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Operation Mode : 802.11n40 Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
3247.00	S	Peak	42.45	8.18	50.63	74	-23.37
3247.00	S	Average	40.35	8.18	48.53	54	-5.47
4874.00	H	Peak	32.26	10.89	43.15	74	-30.85
4874.00	H	Average	23.66	10.89	34.55	54	-19.45

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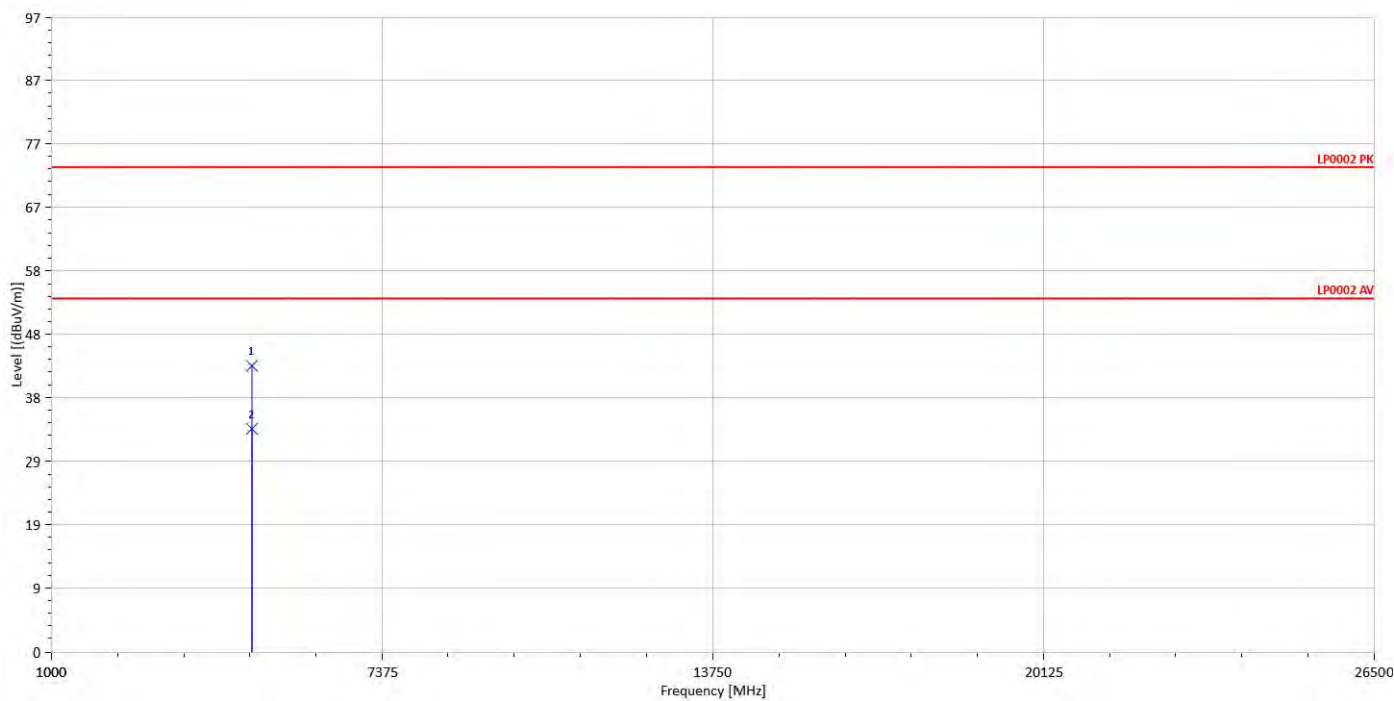
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Operation Mode : 802.11n40 Test Date : 2015/3/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	H	Peak	32.72	10.89	43.61	74	-30.39
4874.00	H	Average	23.15	10.89	34.04	54	-19.96

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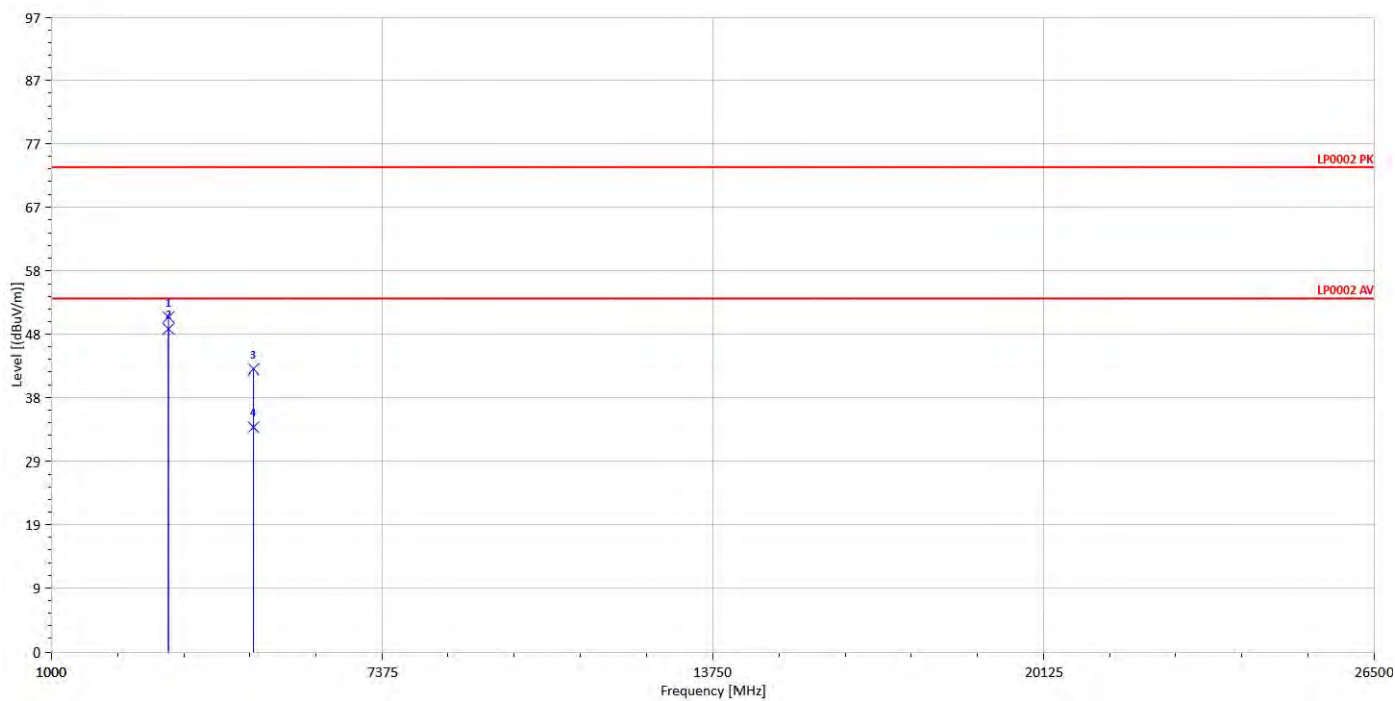
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Operation Mode :	802.11n40	Test Date :	2015/3/9
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
3268.00	S	Peak	42.99	8.15	51.14	74	-22.86
3268.00	S	Average	41.16	8.15	49.31	54	-4.69
4904.00	H	Peak	32.16	10.98	43.14	74	-30.86
4904.00	H	Average	23.31	10.98	34.29	54	-19.71

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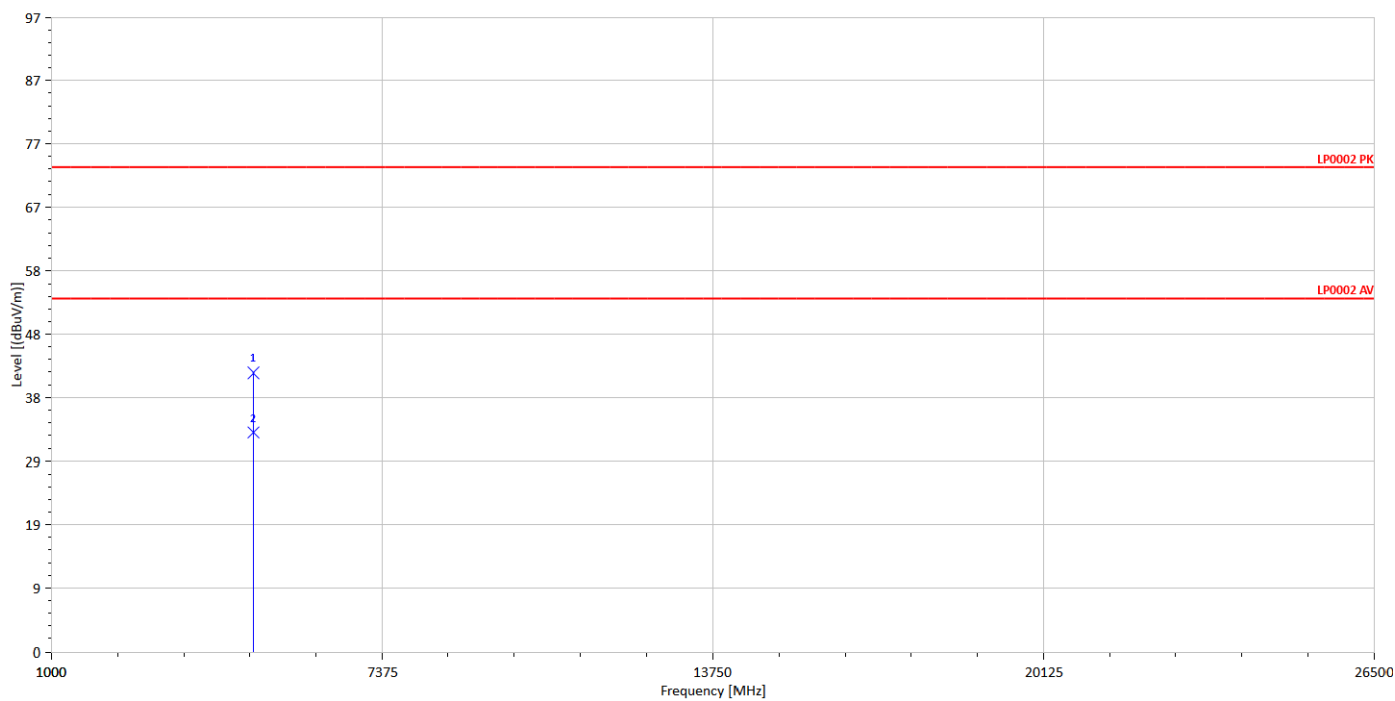
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Operation Mode :	802.11n40	Test Date :	2015/3/9
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Ashton
EUT Pol. :	E2 Plan	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4904.00	H	Peak	31.62	10.98	42.60	74	-31.40
4904.00	H	Average	22.50	10.98	33.48	54	-20.52

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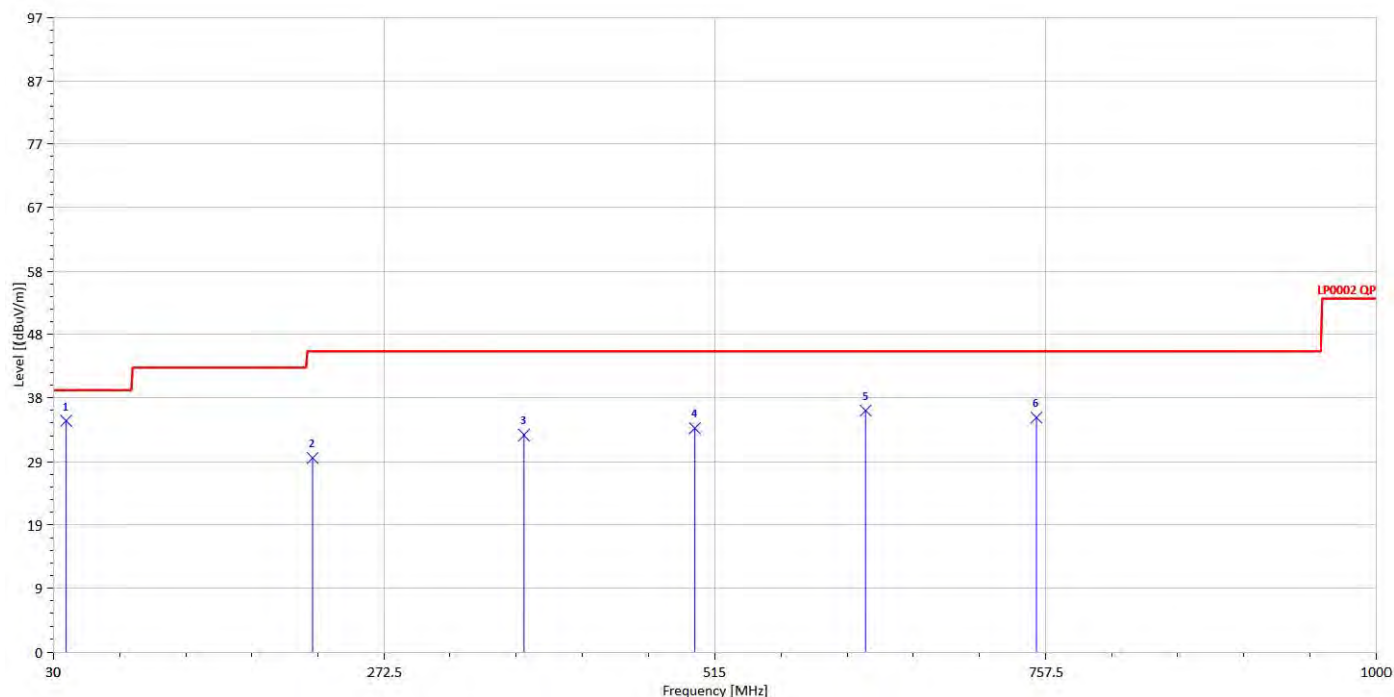
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6.5.6 802.11g / 6Mbps 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Operation Mode : 802.11g Test Date : 2016/4/13
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.7deg_C/67RH
 Operation Band : Rx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	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
39.70	S	QP	47.90	-12.63	35.27	40	-4.73
220.12	S	Peak	46.77	-17.09	29.68	46	-16.32
375.32	S	Peak	43.67	-10.53	33.14	46	-12.86
500.45	S	Peak	41.67	-7.53	34.14	46	-11.86
625.58	S	Peak	42.96	-6.10	36.86	46	-9.14
750.71	S	Peak	39.69	-3.91	35.78	46	-10.22

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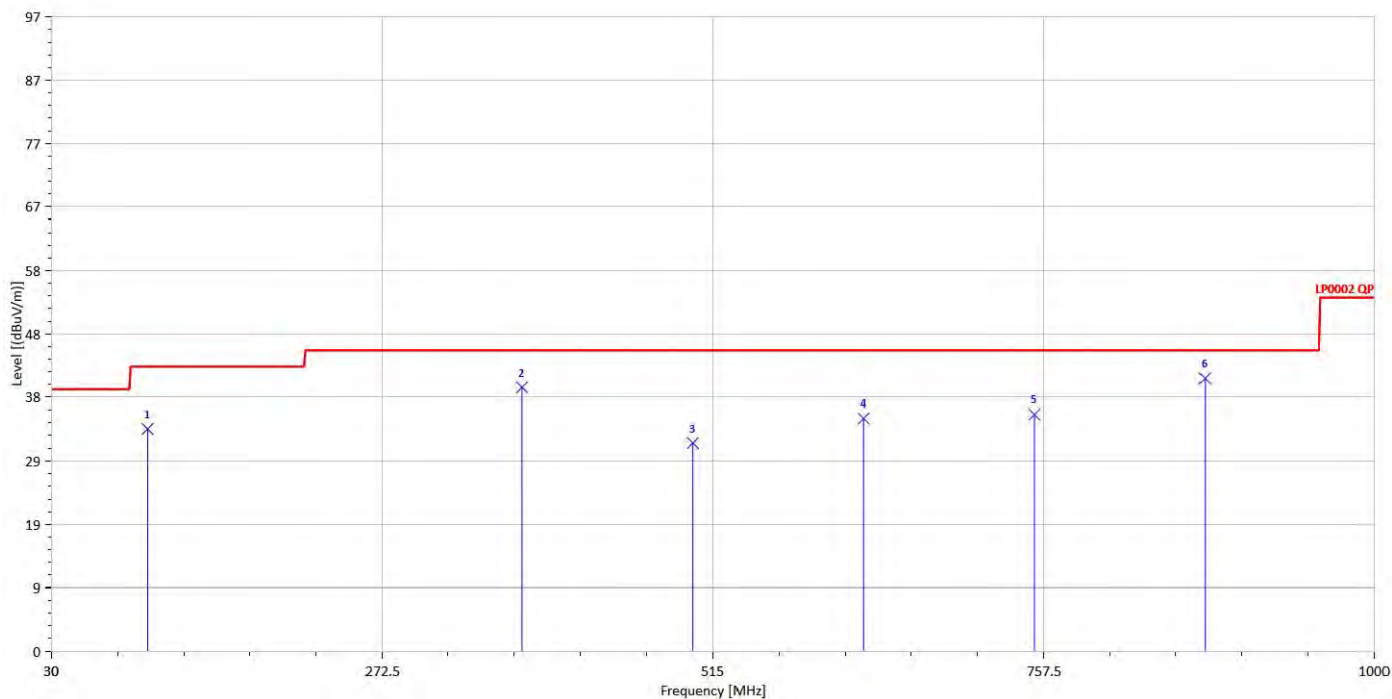
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Operation Mode : 802.11g Test Date : 2016/4/13
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.7deg_C/67RH
 Operation Band : Rx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
100.81	S	Peak	51.65	-17.64	34.01	43.5	-9.49
375.32	S	Peak	50.84	-10.53	40.31	46	-5.69
500.45	S	Peak	39.35	-7.53	31.83	46	-14.17
625.58	S	Peak	41.70	-6.10	35.61	46	-10.39
750.71	S	Peak	40.12	-3.91	36.22	46	-9.78
875.84	S	Peak	44.48	-2.80	41.68	46	-4.32

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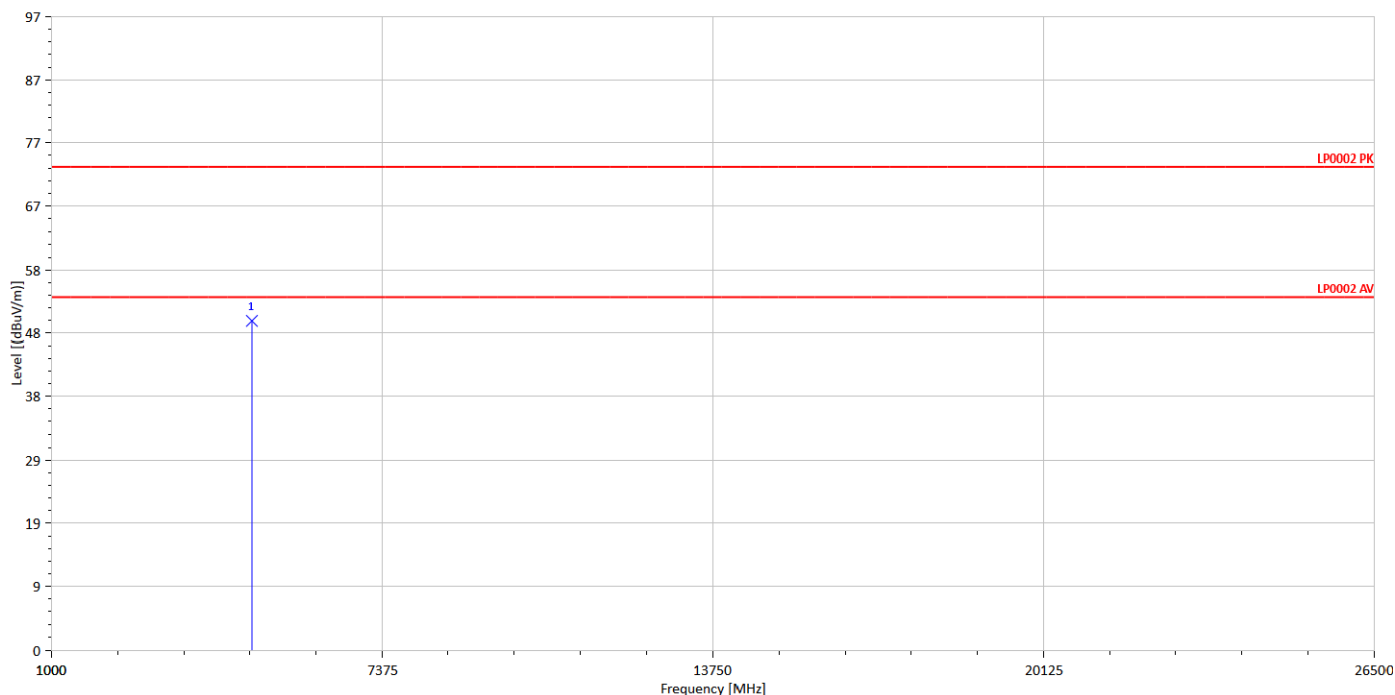
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6.5.7 802.11g / 6Mbps 接收機場強輻射之量測結果(1GHz 以上) (最差模式)

Operation Mode : 802.11g Test Date : 2016/4/13
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.7deg_C/67RH
 Operation Band : Rx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	
		PK/QP/AV	dBuV		dBuV/m	dBuV/m	dB
4874.00	H	Peak	39.67	10.66	50.33	74	-23.67

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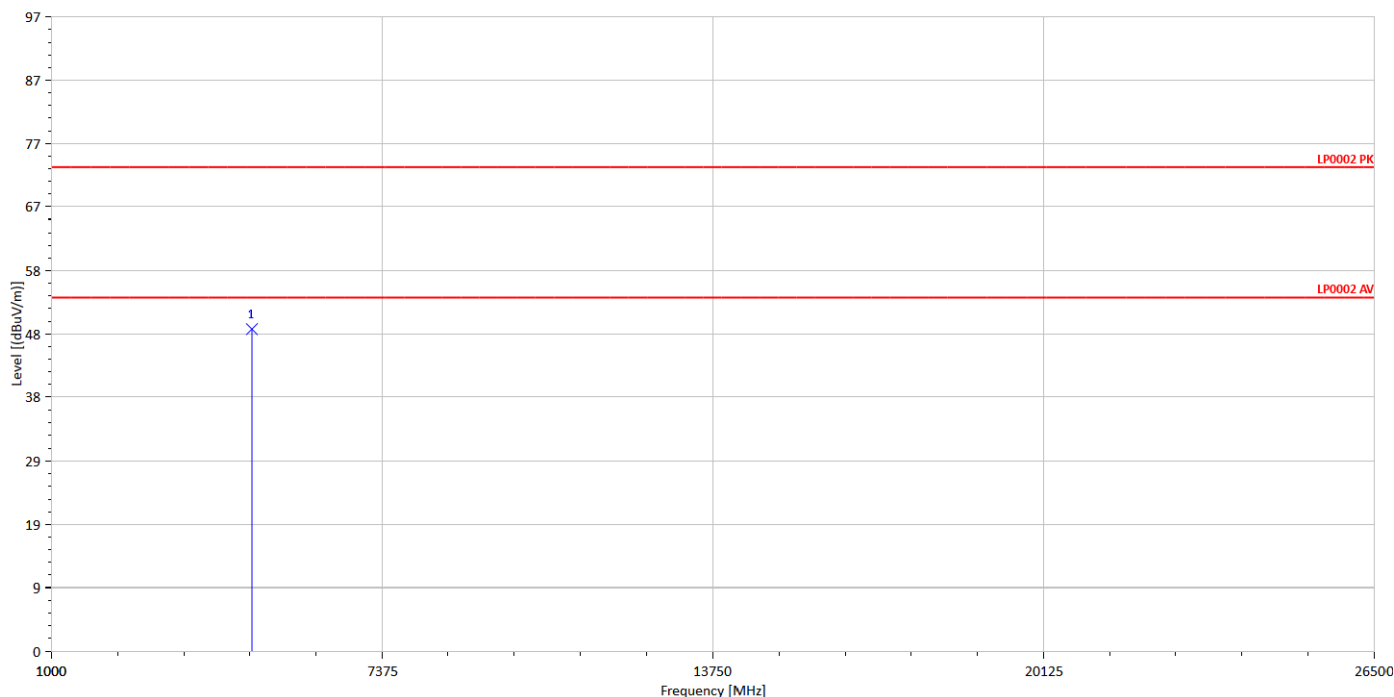
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Operation Mode : 802.11g Test Date : 2016/4/13
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.7deg_C/67RH
 Operation Band : Rx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBuV		dBuV/m	dBuV/m	
4874.00	H	Peak	38.62	10.66	49.28	74	-24.72

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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節(3)(3.1.1)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節(3)(3.1.2)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節(3)(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/天線增益	Dipole Antenna, Gain: 2.0dBi P/N: AN2450-4828RS, Supplier: N/A
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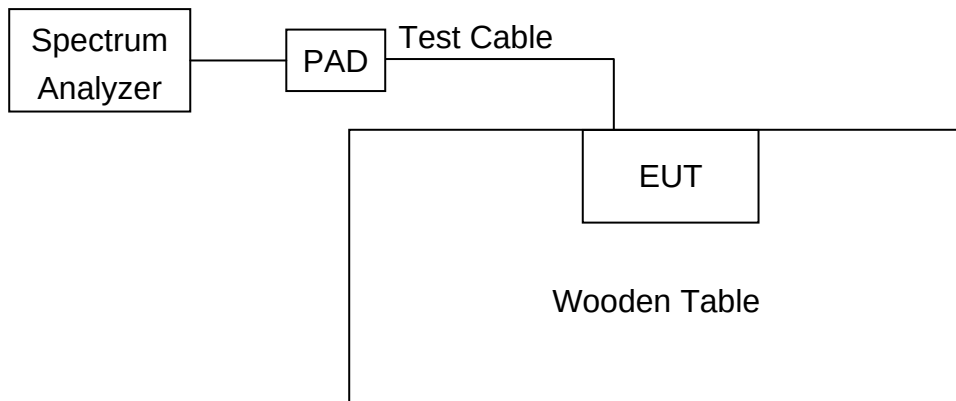
8 發射頻寬之要求

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 節(6.2.1) 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 Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	12060	> 500	PASS
2437	12060	> 500	PASS
2462	12060	> 500	PASS

802.11g Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	16480	> 500	PASS
2437	16470	> 500	PASS
2462	16460	> 500	PASS

802.11n_HT20M Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	17540	> 500	PASS
2437	17560	> 500	PASS
2462	17570	> 500	PASS

802.11n_HT40M Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2422	36330	> 500	PASS
2437	36330	> 500	PASS
2452	36330	> 500	PASS

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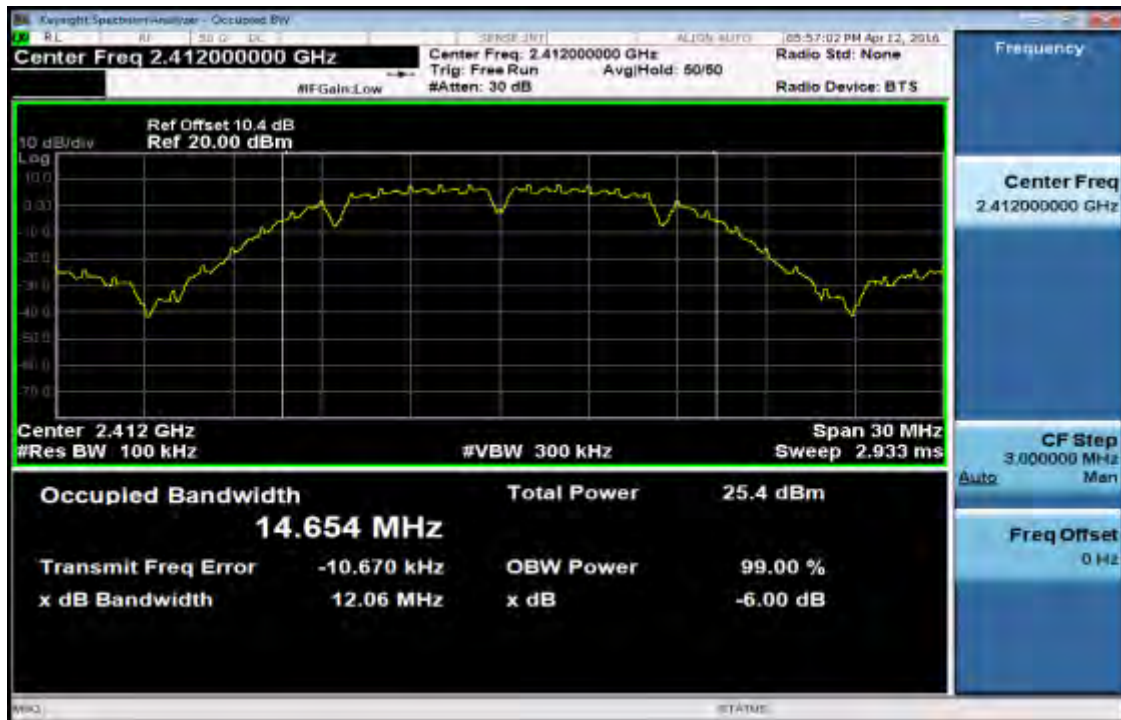
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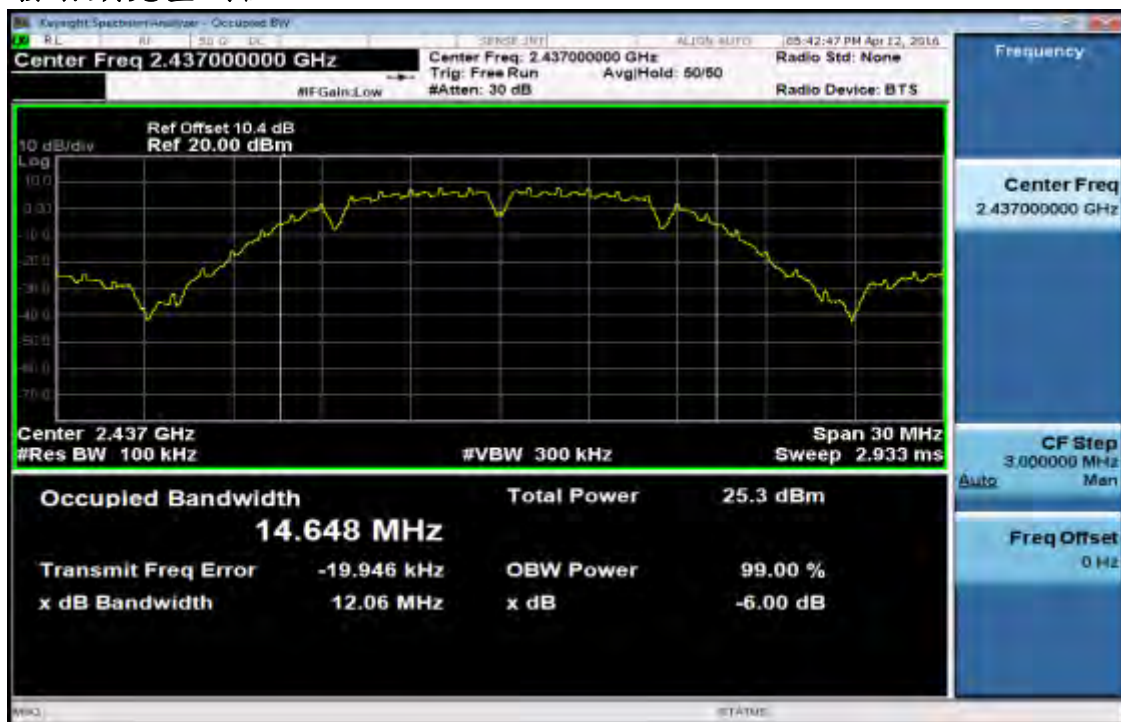
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802.11b Mode Test Data Plot

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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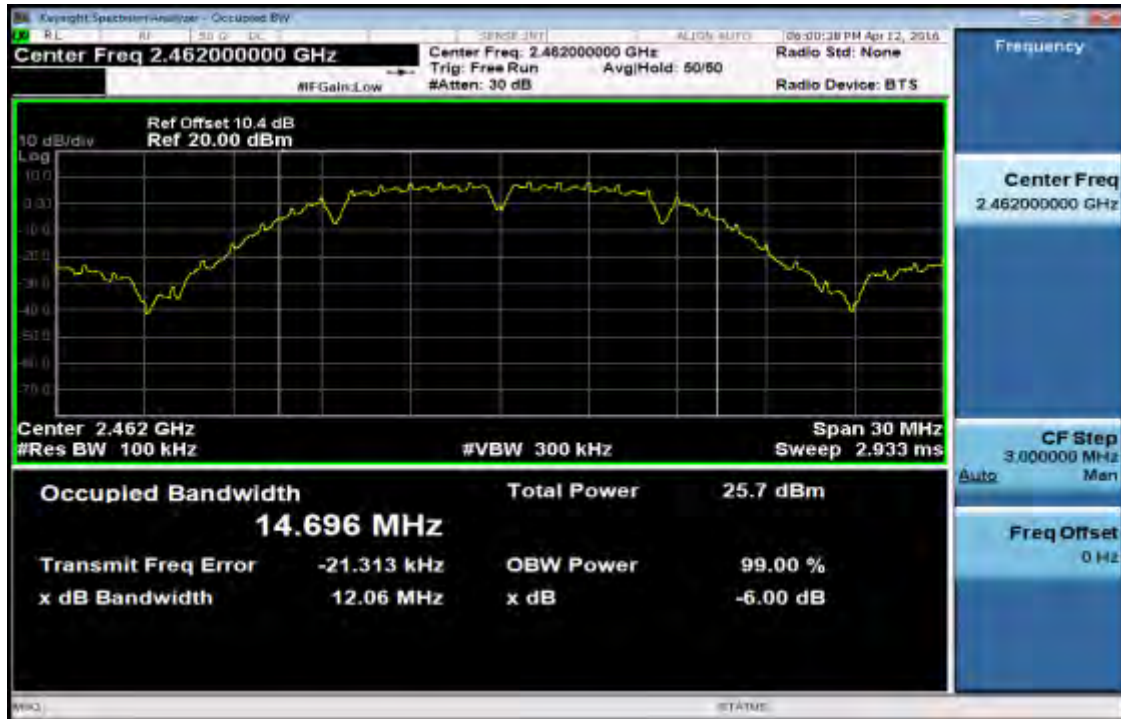
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CH High 發射頻寬量測值



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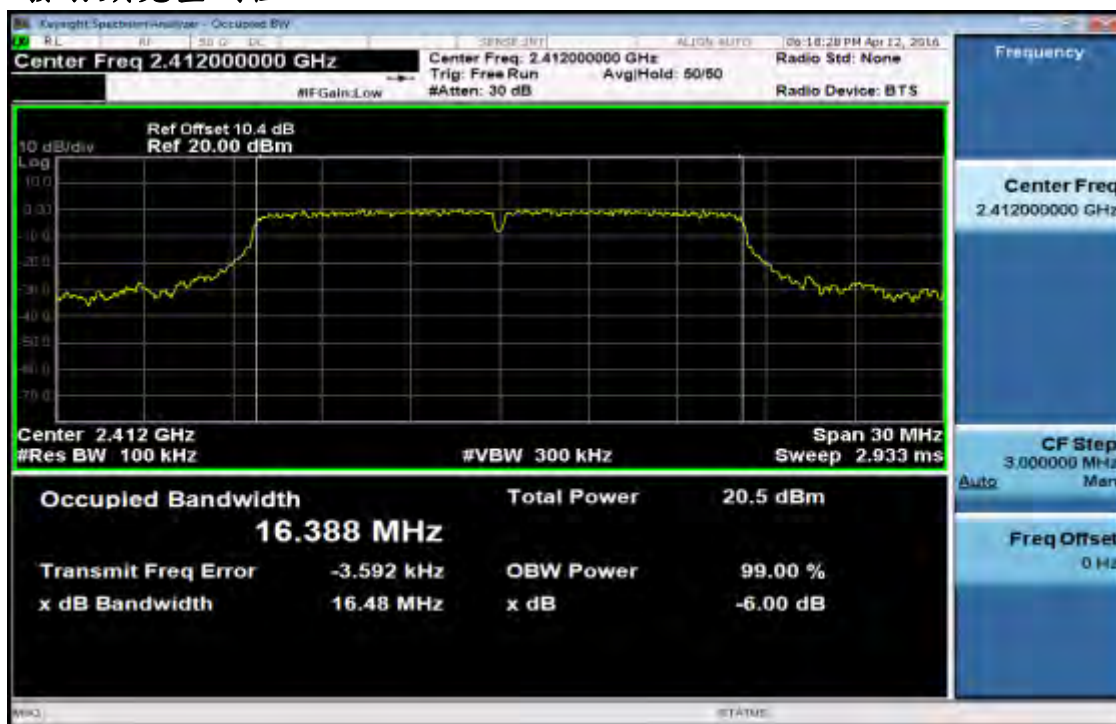
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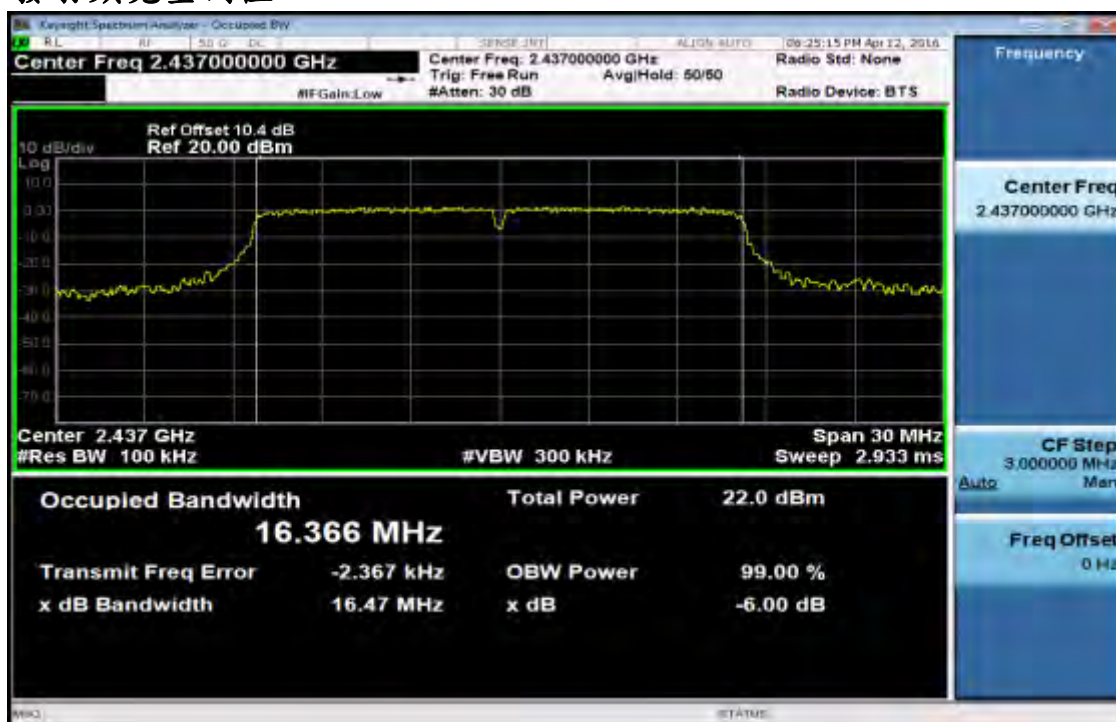
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802.11g Mode Test Data Plot

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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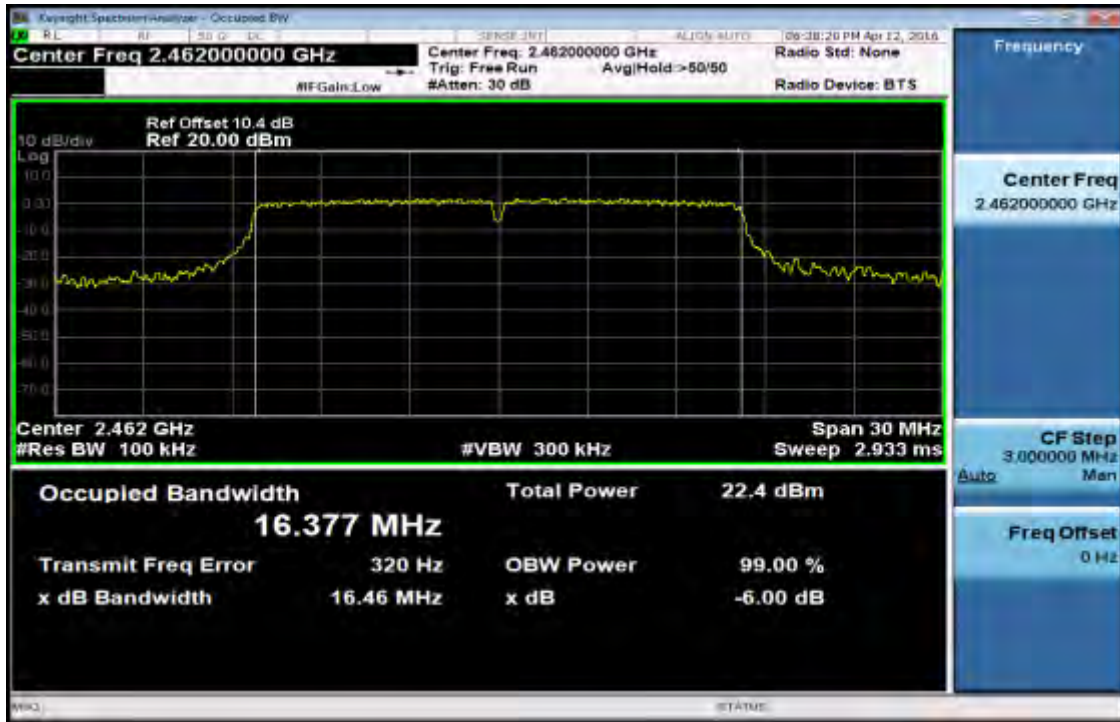
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CH High 發射頻寬量測值



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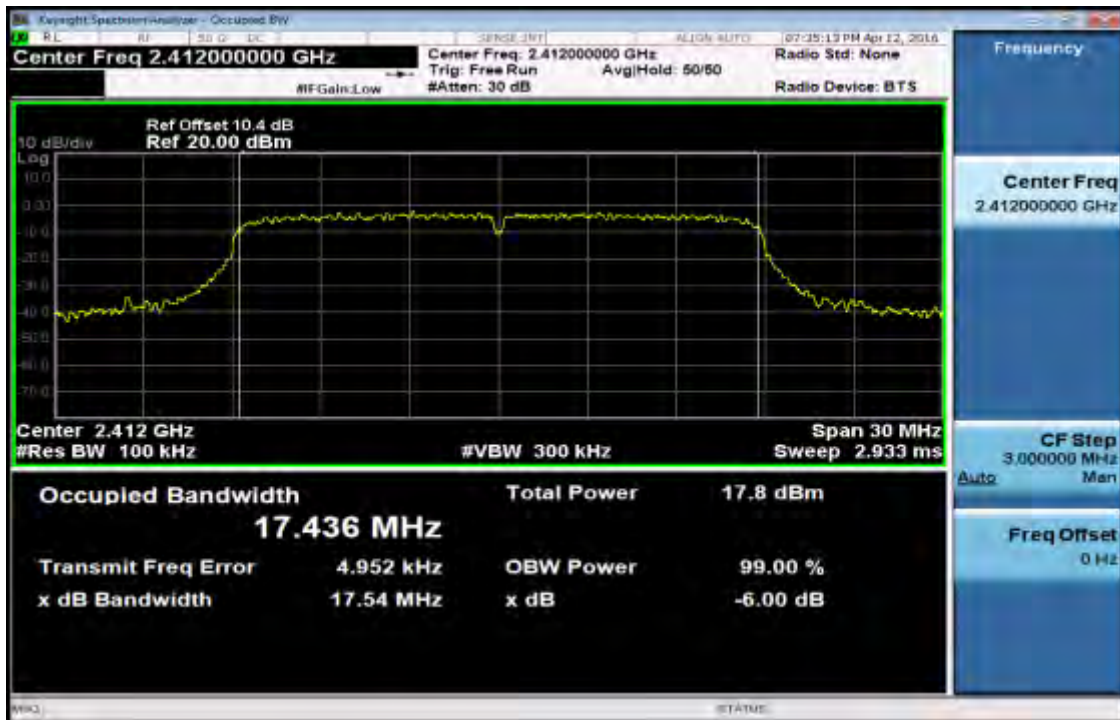
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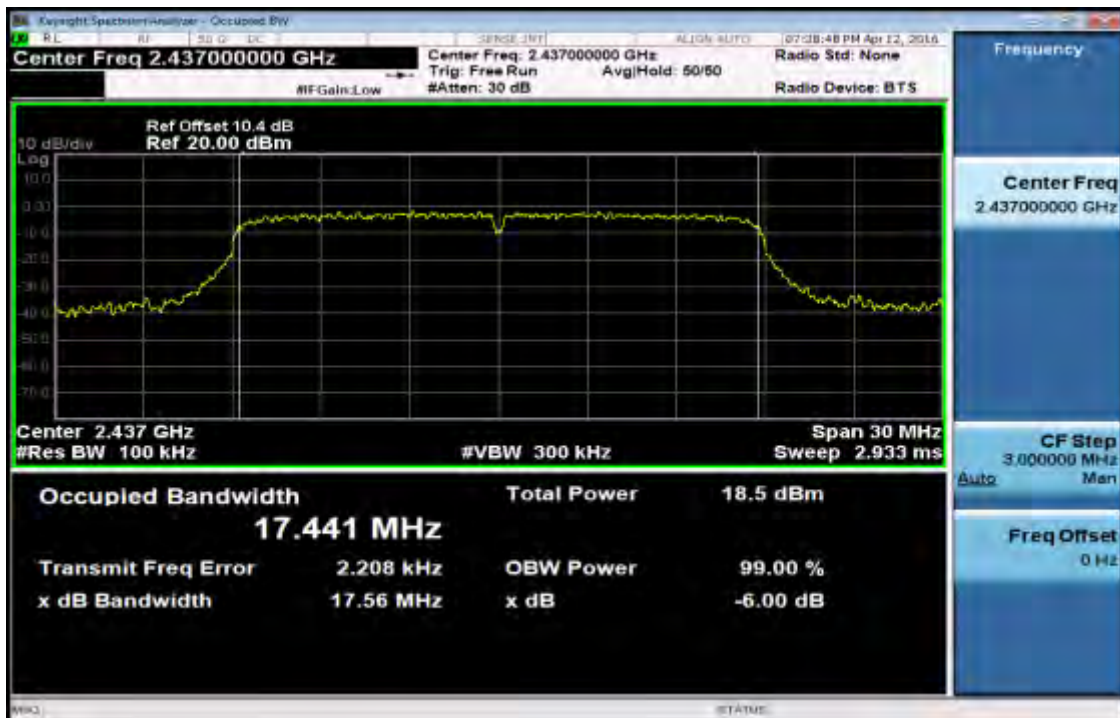
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802.11n HT20 (Main), Test Data Plot

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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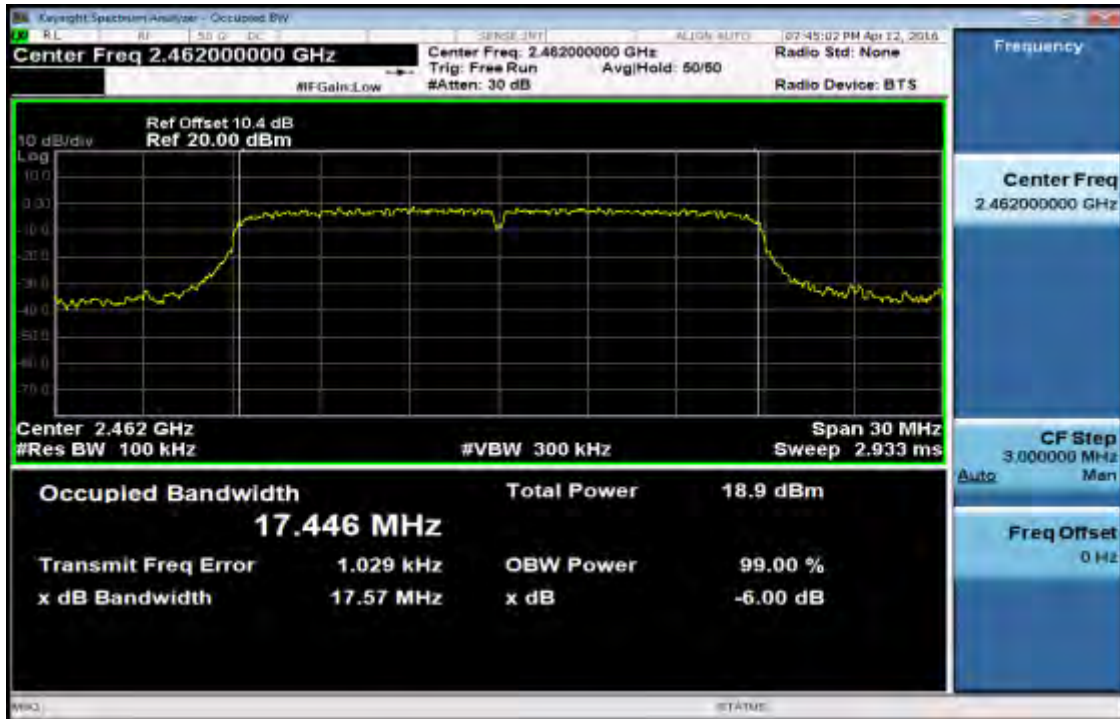
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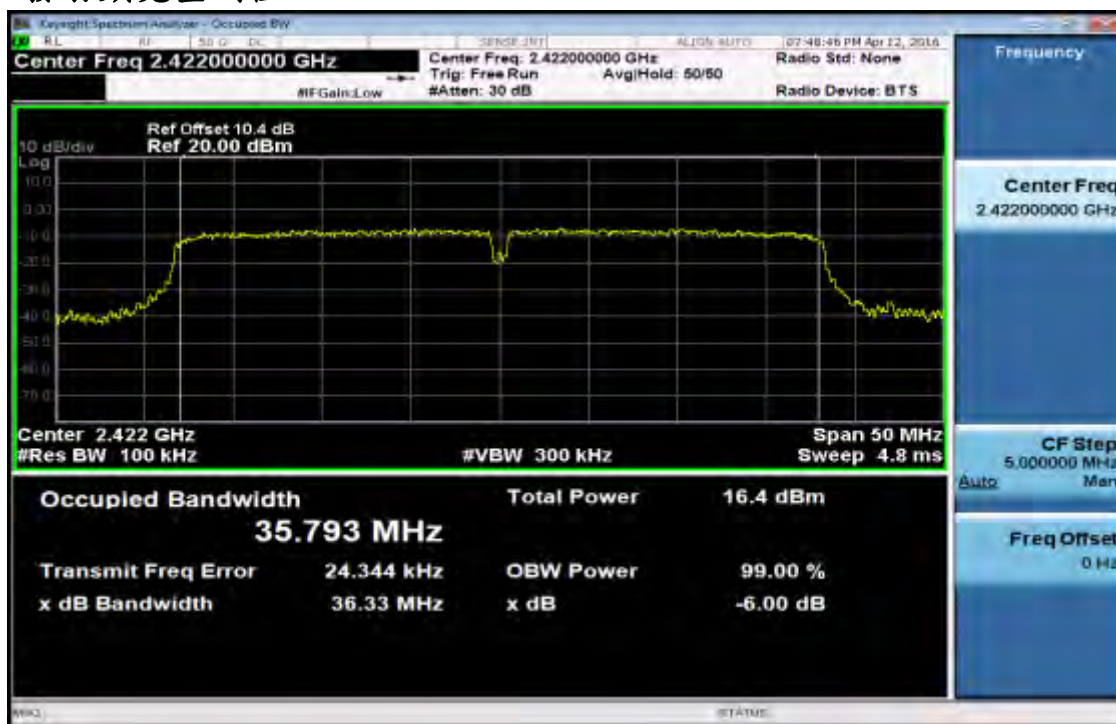
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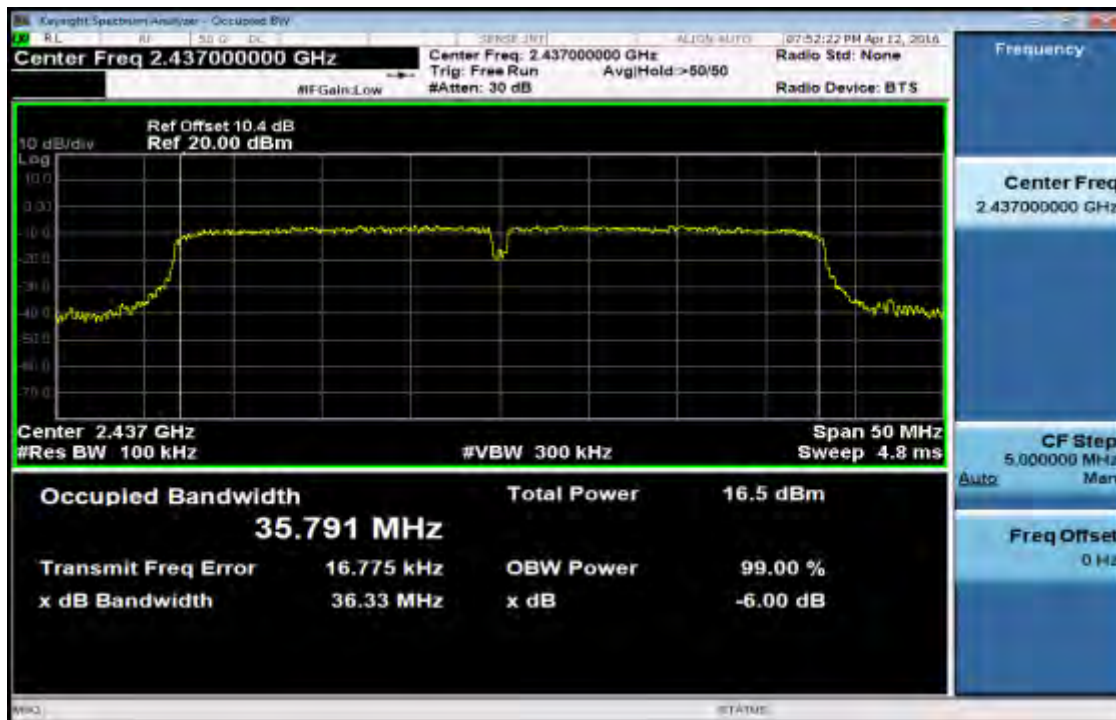
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802.11n HT40 (Main), Test Data Plot

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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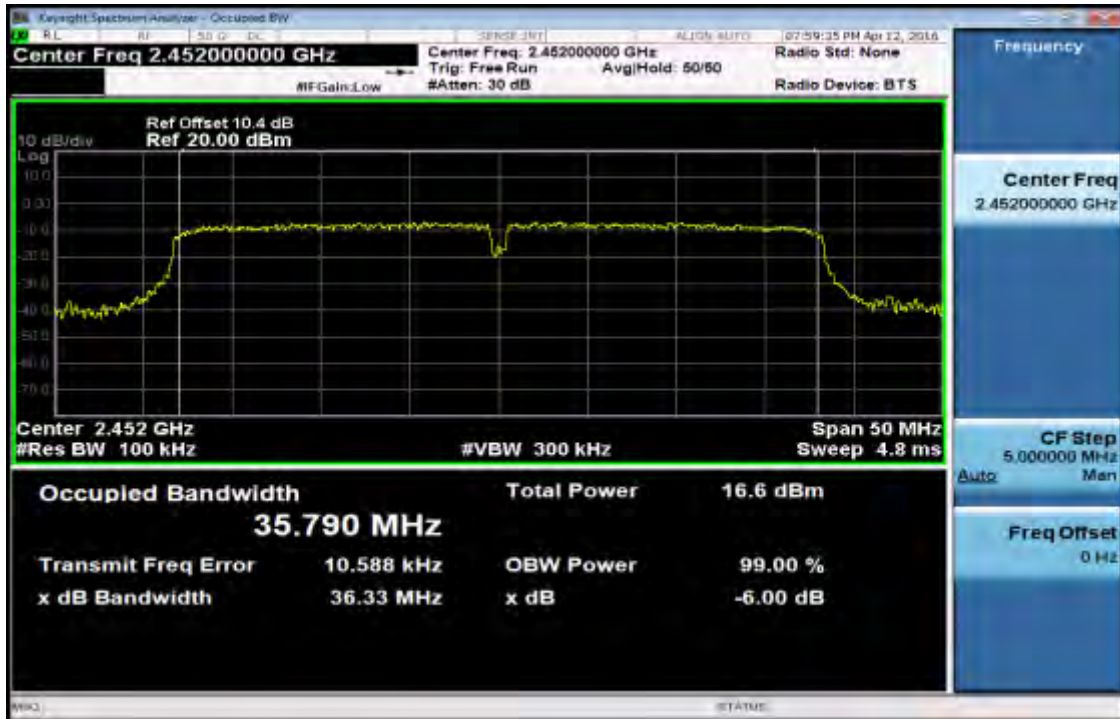
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9 輸出峰值功率之量測

9.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1 節(2.3)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節(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低功率射頻電機技術規範3.10.1節(3)(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節(3)(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節(3)(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。

如其天線以多向波束發射方式(含同時發射或循序發射)將信號導向多個接收機或接收機群組時，應符合下列規定：

如發射機之天線以多向波束不具備同時發射功能時，所有載波或頻道所傳輸至所有天線陣列或陣列群之總和傳導輸出功率應符合本節 3.10.1(2)之功率限制值。如天線/天線陣列群之方向性增益超過 6dBi，每超過 3dB 應降低總和傳導輸出功率限制值 1dB。方向性增益值應計算如下：方向性增益值= $10 \log(\text{天線陣列之單元數目})$ + 各單元中最高之方向性增益值。

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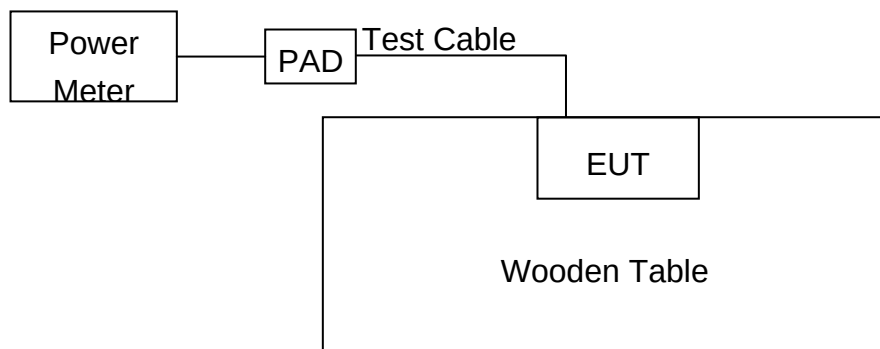
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9.2 輸出功率之測試配置



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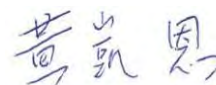
9.3 輸出功率之量測結果

測試設備: Wireless Interactive Presentation Gateway

型號: WiPG-1600w

測試日期: 04/13/2016

測試者:



802.11b Main						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	1	21.2	131.83	1 Watt = 30.00 dBm	PASS
6	2437	1	21.08	128.23	1 Watt = 30.00 dBm	PASS
11	2462	1	21.29	134.59	1 Watt = 30.00 dBm	PASS

802.11b Main						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	1	19.26	84.33	1 Watt = 30.00 dBm	PASS
6	2437	1	19.16	82.41	1 Watt = 30.00 dBm	PASS
11	2462	1	19.35	86.10	1 Watt = 30.00 dBm	PASS

802.11g Main						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	22.31	170.22	1 Watt = 30.00 dBm	PASS
6	2437	6	24.17	261.22	1 Watt = 30.00 dBm	PASS
11	2462	6	24.46	279.25	1 Watt = 30.00 dBm	PASS

802.11g Main						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	6	14.46	27.93	1 Watt = 30.00 dBm	PASS
6	2437	6	15.84	38.37	1 Watt = 30.00 dBm	PASS
11	2462	6	16.38	43.45	1 Watt = 30.00 dBm	PASS

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802.11n_HT20M Main

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	MCS0	19.99	99.77	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	20.43	110.41	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	20.74	118.58	1 Watt = 30.00 dBm	PASS

802.11n_HT20M Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	MCS0	11.68	14.72	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	12.29	16.94	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	12.87	19.36	1 Watt = 30.00 dBm	PASS

802.11n_HT40M Main

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2422	MCS0	18.26	66.99	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	18.69	73.96	1 Watt = 30.00 dBm	PASS
11	2452	MCS0	18.75	74.99	1 Watt = 30.00 dBm	PASS

802.11n_HT40M Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2422	MCS0	10.11	10.26	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	10.25	10.59	1 Watt = 30.00 dBm	PASS
11	2452	MCS0	10.33	10.79	1 Watt = 30.00 dBm	PASS

*** Note: Offset 10.4dB for SISO mode**

**Note: Measured by Power Meter.*

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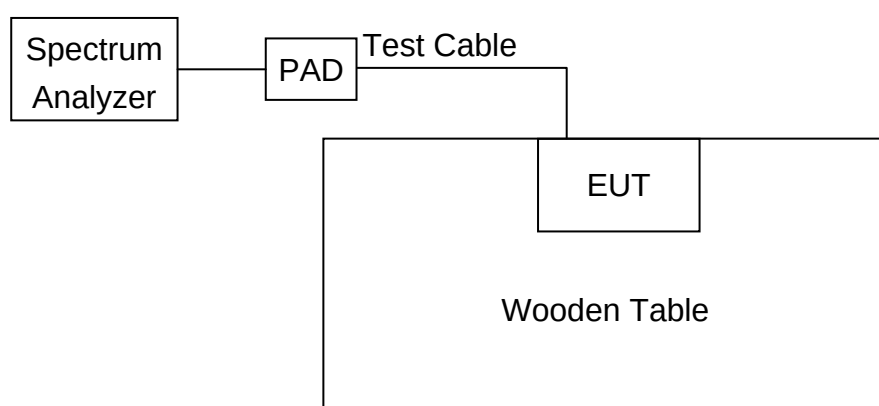
10 開放頻帶邊緣 100kHz 頻寬內之限制

10.1 適用標準

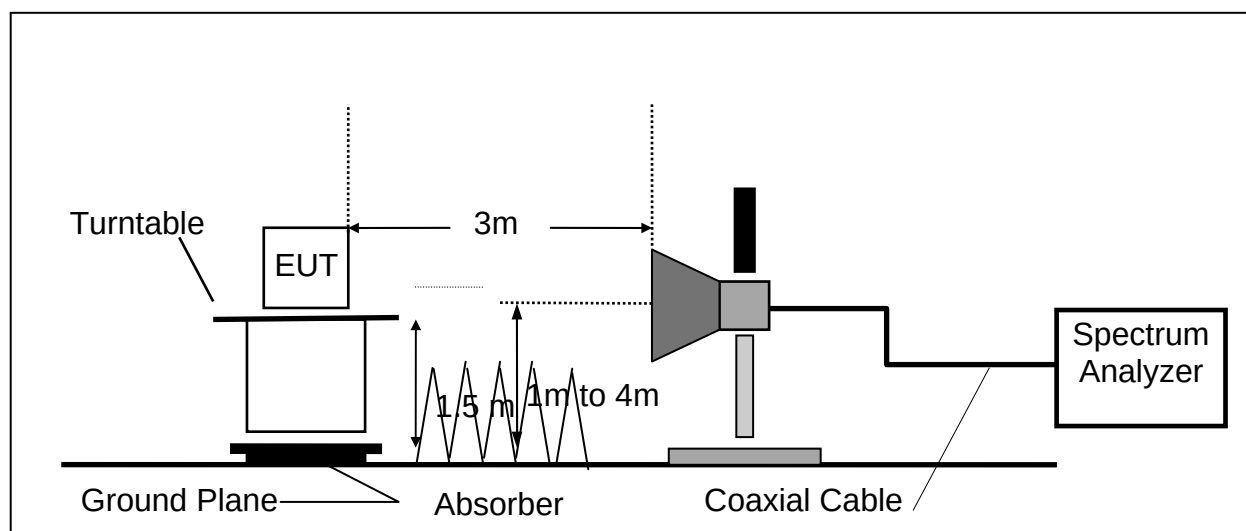
依據 NCC 低功率射頻電機技術規範 3.10.1 節(5)之規定，使用頻帶範圍外之任意 100kHz 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100kHz 內的射頻功率，須衰減 20 分貝 (dB)，以射頻傳導或輻射方式測量。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

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:	Wireless Interactive Presentation Gateway	型號:	WiPG-1600w
解析頻寬:	100 kHz	視訊頻寬:	300 kHz
Span:	100MHz	測試模式:	802.11b/g/n mode
測試者:	黃凱恩	測試日期:	04/12/2016

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:

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

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

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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802.11g

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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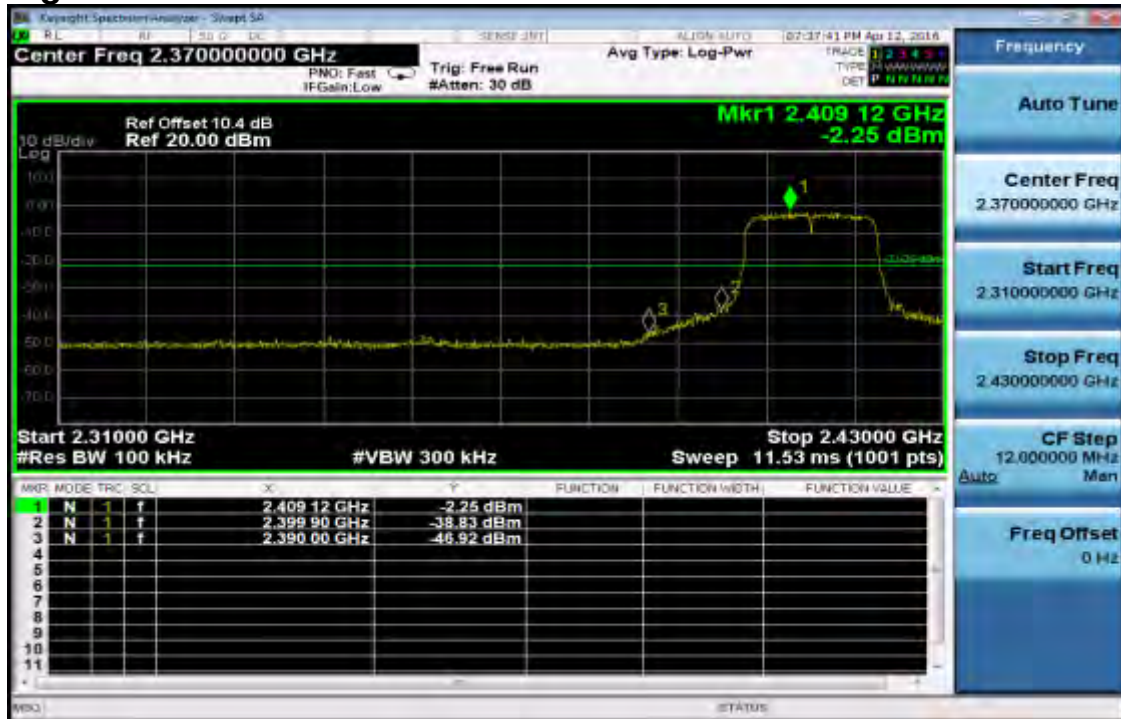
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802.11n HT20

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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802.11n HT40

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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10.3.2 禁用頻帶輻射量測值

Operation Mode : 802.11b Test Date : 2016/4/13
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Vito
EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.23	S	Peak	54.80	6.62	61.41	74	-12.59
2386.23	S	Average	45.98	6.62	52.60	54	-1.40
2390.00	E	Peak	51.52	6.62	58.14	74	-15.86
2390.00	E	Average	39.47	6.62	46.09	54	-7.91

Operation Mode : 802.11b Test Date : 2016/4/13
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Vito
EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.01	S	Peak	54.55	6.62	61.16	74	-12.84
2386.01	S	Average	45.45	6.62	52.07	54	-1.93
2390.00	E	Peak	50.33	6.62	56.95	74	-17.05
2390.00	E	Average	39.75	6.62	46.37	54	-7.63

Operation Mode : 802.11b Test Date : 2016/4/13
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Vito
EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	49.08	6.96	56.05	74	-17.95
2483.50	E	Average	38.78	6.96	45.74	54	-8.26
2487.80	S	Peak	50.71	6.98	57.69	74	-16.31
2487.80	S	Average	41.41	6.98	48.39	54	-5.61

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Operation Mode :		802.11b	Test Date :		2016/4/13		
Fundamental Frequency :		2462 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH High	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Horizontal		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	47.97	6.96	54.93	74	-19.07
2483.50	E	Average	37.01	6.96	43.97	54	-10.03
2487.20	S	Peak	48.65	6.98	55.62	74	-18.38
2487.20	S	Average	39.30	6.98	46.28	54	-7.72

Operation Mode :		802.11g	Test Date :		2016/4/13		
Fundamental Frequency :		2412 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH Low	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Vertical		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	66.20	6.62	72.82	74	-1.18
2390.00	E	Average	45.17	6.62	51.79	54	-2.21

Operation Mode :		802.11g	Test Date :		2016/4/13		
Fundamental Frequency :		2412 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH Low	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Horizontal		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	64.96	6.62	71.58	74	-2.42
2390.00	E	Average	44.10	6.62	50.72	54	-3.28

Operation Mode :		802.11g	Test Date :		2016/4/13		
Fundamental Frequency :		2462 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH High	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Vertical		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	65.46	6.96	72.43	74	-1.57
2483.50	E	Average	46.16	6.96	53.12	54	-0.88

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Operation Mode :		802.11g	Test Date :		2016/4/13		
Fundamental Frequency :		2462 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH High	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Horizontal		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	61.56	6.96	68.53	74	-5.47
2483.50	E	Average	42.48	6.96	49.44	54	-4.56

Operation Mode :		802.11n20	Test Date :		2016/4/13		
Fundamental Frequency :		2412 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH Low	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Vertical		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	65.64	6.62	72.26	74	-1.74
2390.00	E	Average	40.47	6.62	47.09	54	-6.91

Operation Mode :		802.11n20	Test Date :		2016/4/13		
Fundamental Frequency :		2412 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH Low	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Horizontal		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	65.25	6.62	71.87	74	-2.13
2390.00	E	Average	40.28	6.62	46.90	54	-7.10

Operation Mode :		802.11n20	Test Date :		2016/4/13		
Fundamental Frequency :		2462 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH High	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Vertical		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	65.30	6.96	72.27	74	-1.73
2483.50	E	Average	43.00	6.96	49.96	54	-4.04

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Operation Mode :		802.11n20	Test Date :		2016/4/13		
Fundamental Frequency :		2462 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH High	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Horizontal		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	61.12	6.96	68.09	74	-5.91
2483.50	E	Average	39.59	6.96	46.55	54	-7.45

Operation Mode :		802.11n40	Test Date :		2016/4/13		
Fundamental Frequency :		2422 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH Low	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Vertical		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.10	S	Peak	65.22	6.62	71.83	74	-2.17
2388.10	S	Average	44.21	6.62	50.83	54	-3.17
2390.00	E	Peak	63.88	6.62	70.50	74	-3.50
2390.00	E	Average	45.14	6.62	51.76	54	-2.24

Operation Mode :		802.11n40	Test Date :		2016/4/13		
Fundamental Frequency :		2422 MHz	Temp. / Humi. :		22.7deg_C/57RH		
Operation Band :		BE CH Low	Test Engineer :		Vito		
EUT Pol. :		E2 Plan	Measurement Antenna Pol. :		Horizontal		
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.32	S	Peak	65.31	6.62	71.92	74	-2.08
2388.32	S	Average	43.66	6.62	50.28	54	-3.72
2390.00	E	Peak	62.97	6.62	69.59	74	-4.41
2390.00	E	Average	44.33	6.62	50.95	54	-3.05

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Operation Mode : 802.11n40 Test Date : 2016/4/13
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Vito
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	63.75	6.96	70.71	74	-3.29
2483.50	E	Average	44.31	6.96	51.27	54	-2.73
2485.80	S	Peak	64.83	6.97	71.80	74	-2.20
2485.80	S	Average	43.26	6.97	50.23	54	-3.77

Operation Mode : 802.11n40 Test Date : 2016/4/13
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Vito
 EUT Pol. : E2 Plan Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	60.13	6.96	67.09	74	-6.91
2483.50	E	Average	40.46	6.96	47.42	54	-6.58
2485.60	S	Peak	61.27	6.97	68.25	74	-5.75
2485.60	S	Average	39.98	6.97	46.95	54	-7.05

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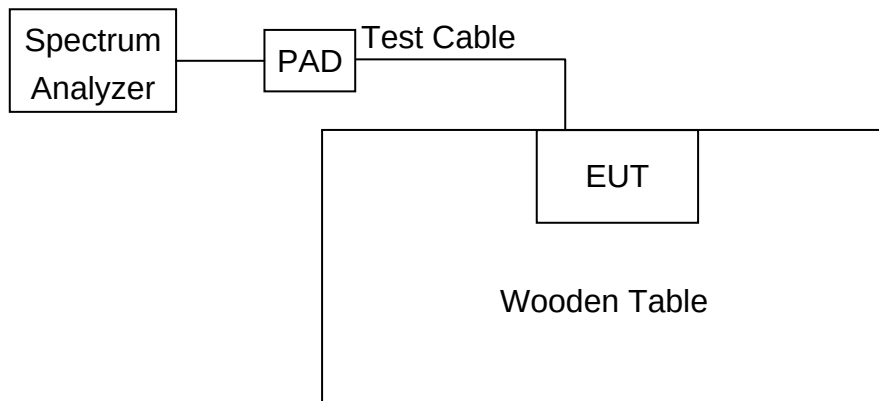
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11 功率密度之量測

11.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1 節之(6.2.2)條規定，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: Wireless Interactive Presentation Gateway

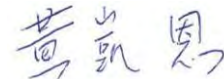
型號: WiPG-1600w

解析頻寬: 3 kHz

視訊頻寬: 10 kHz

Span: 300 kHz

測試者:



POWER DENSITY 802.11b MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-10.85	8	PASS
2437	-10.96	8	PASS
2462	-10.58	8	PASS

POWER DENSITY 802.11g MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-14.85	8	PASS
2437	-13.23	8	PASS
2462	-12.90	8	PASS

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-16.24	8	PASS
2437	-15.96	8	PASS
2462	-15.68	8	PASS

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2422	-19.47	8	PASS
2437	-19.12	8	PASS
2452	-19.44	8	PASS

*** Note: Offset 10.4dB for SISO mode**

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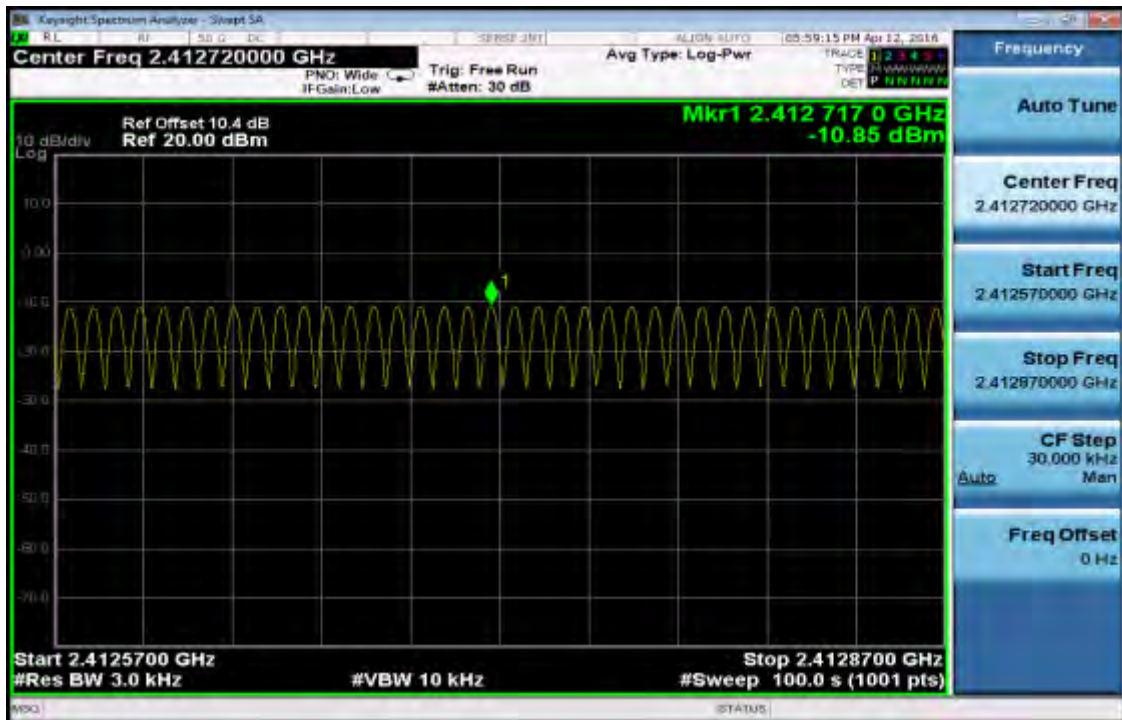
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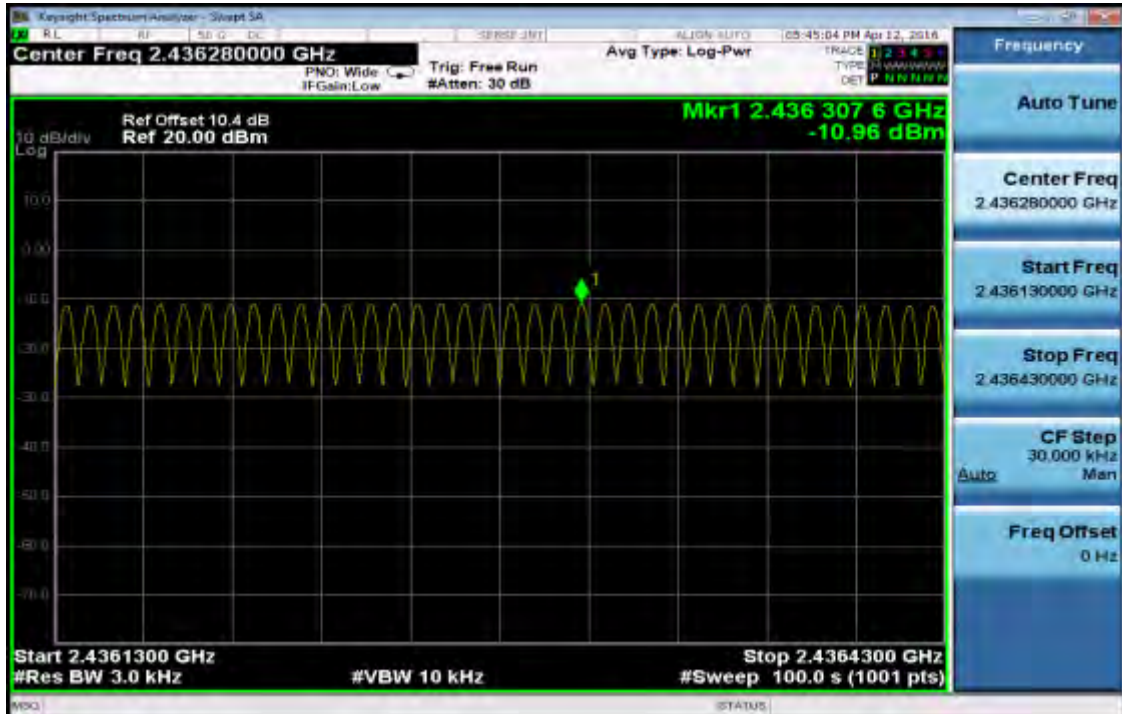
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802.11b Mode Test Data Plot

CH Low 功率密度量測值



CH Mid 功率密度量測值



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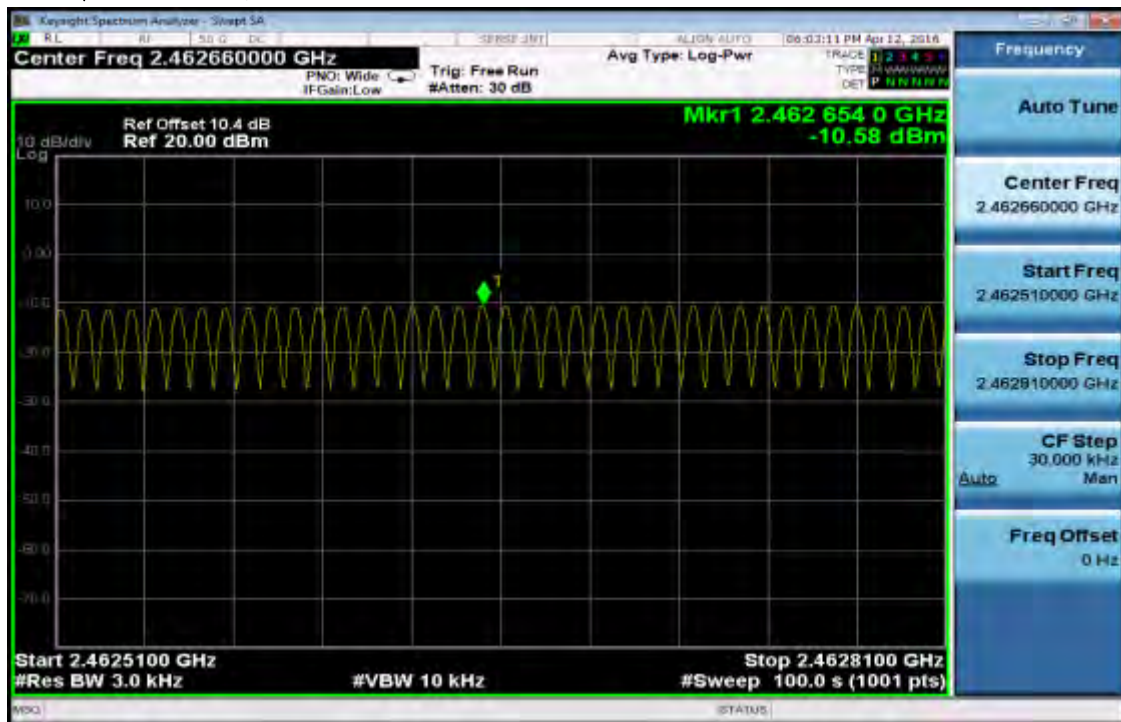
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CH High 功率密度量測值



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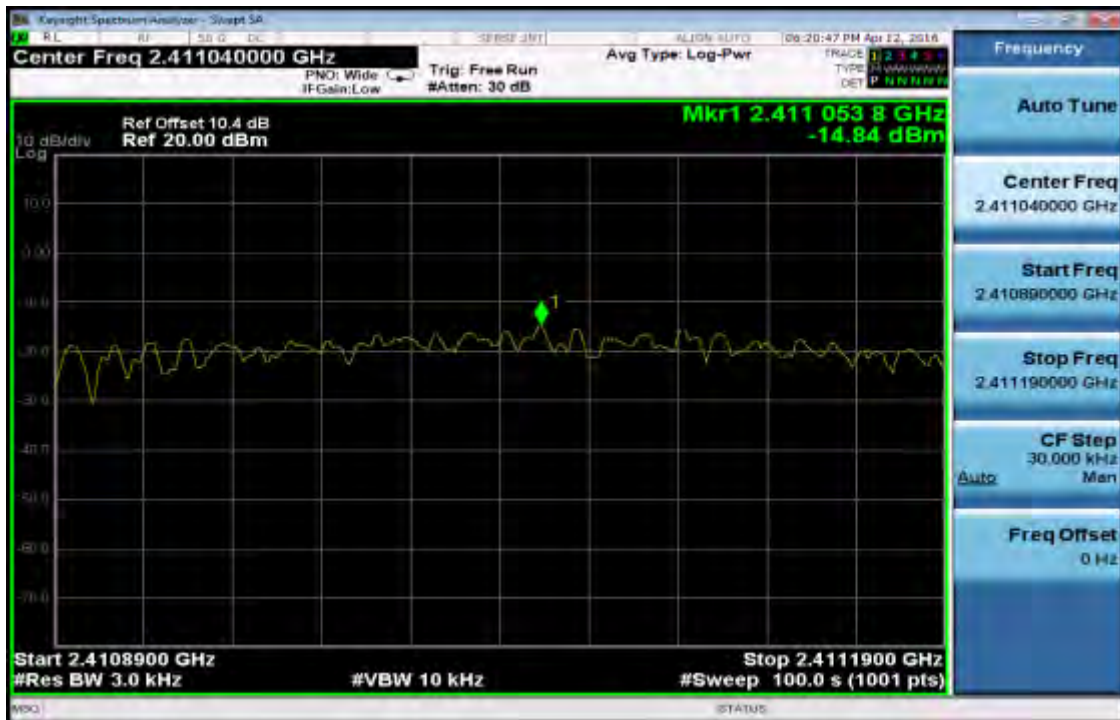
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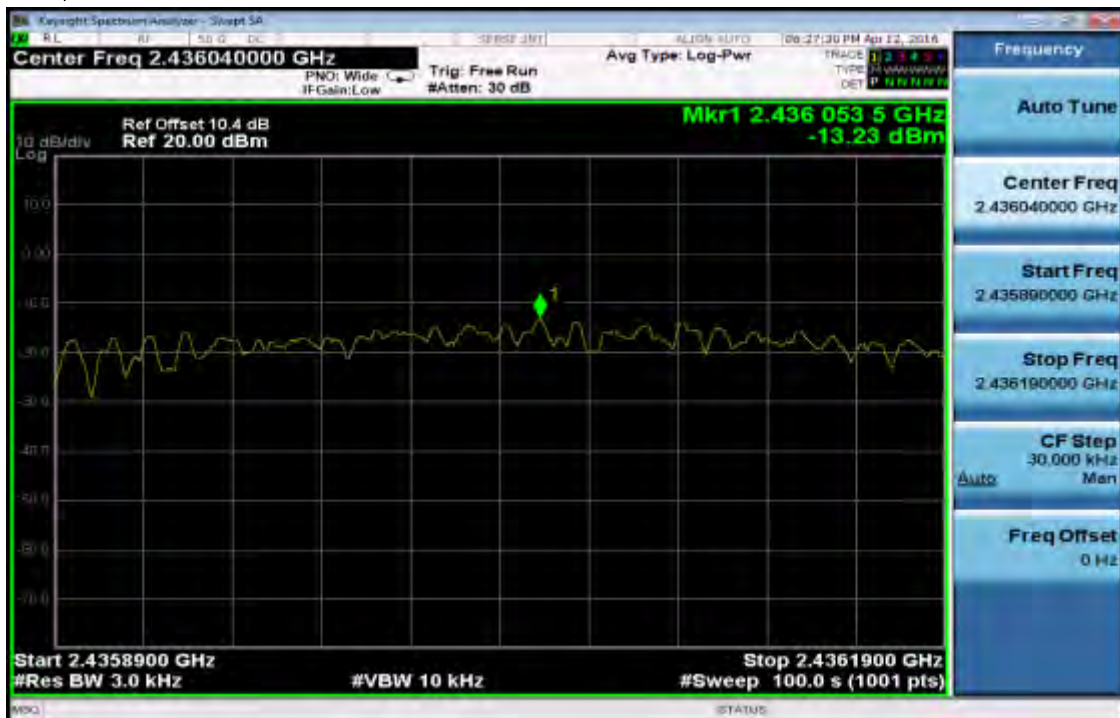
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802.11g Mode Test Data Plot

CH Low 功率密度量測值



CH Mid 功率密度量測值



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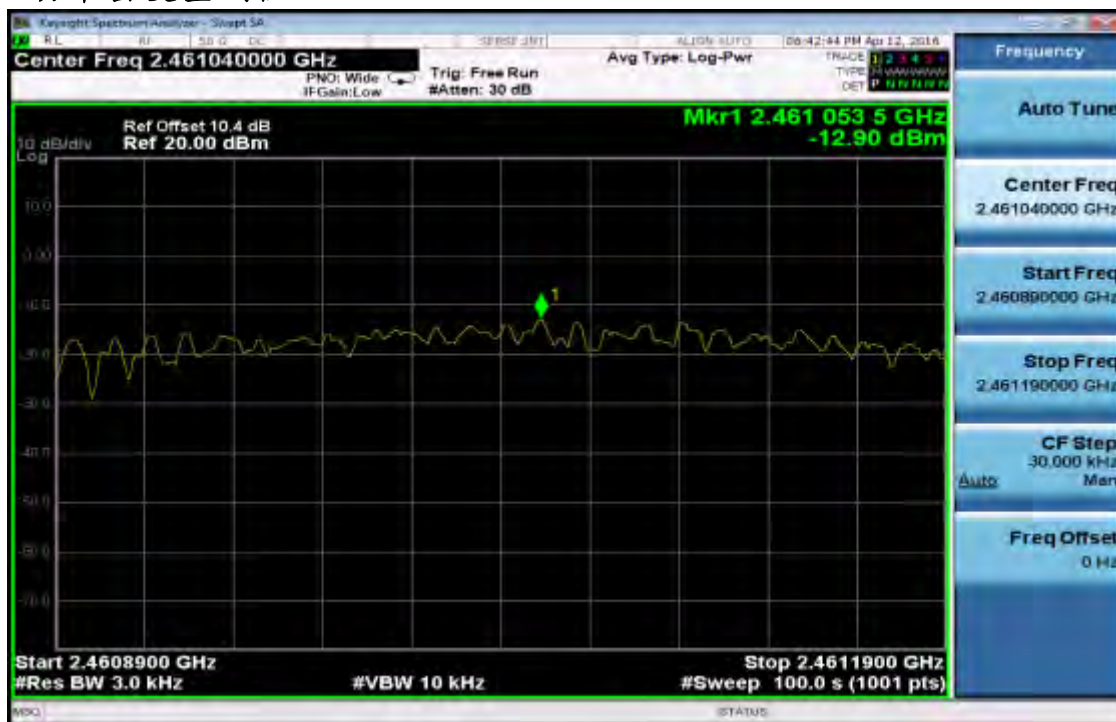
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CH High 功率密度量測值



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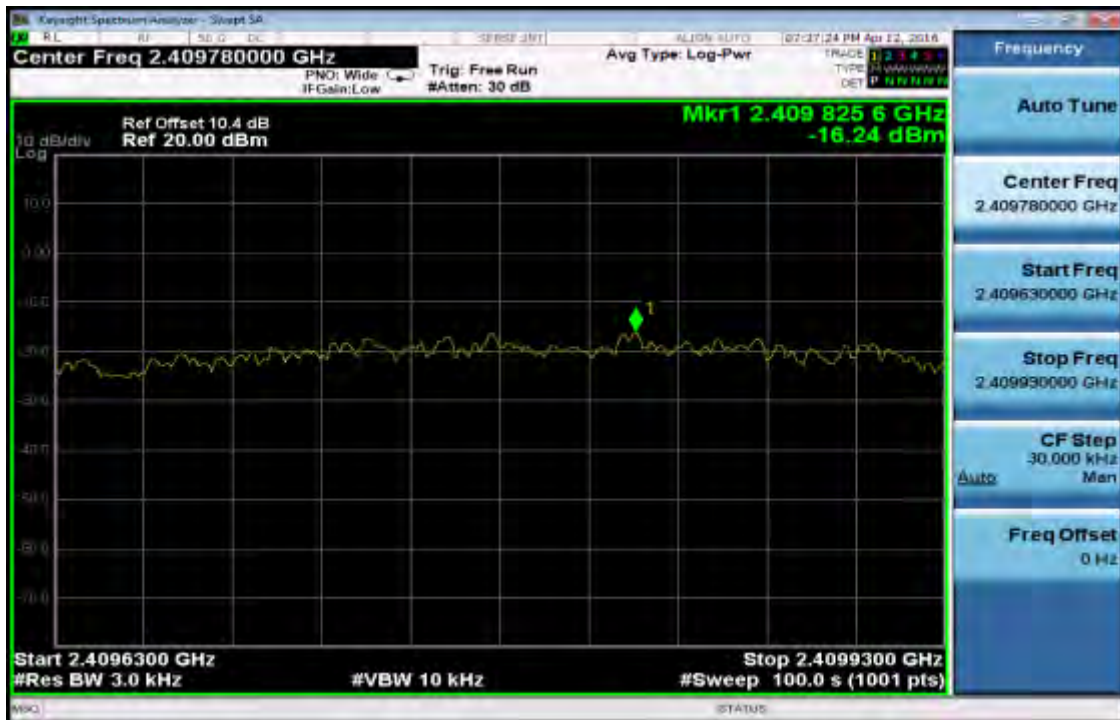
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802.11n HT20 Mode Test Data Plot

CH Low 功率密度量測值



CH Mid 功率密度量測值



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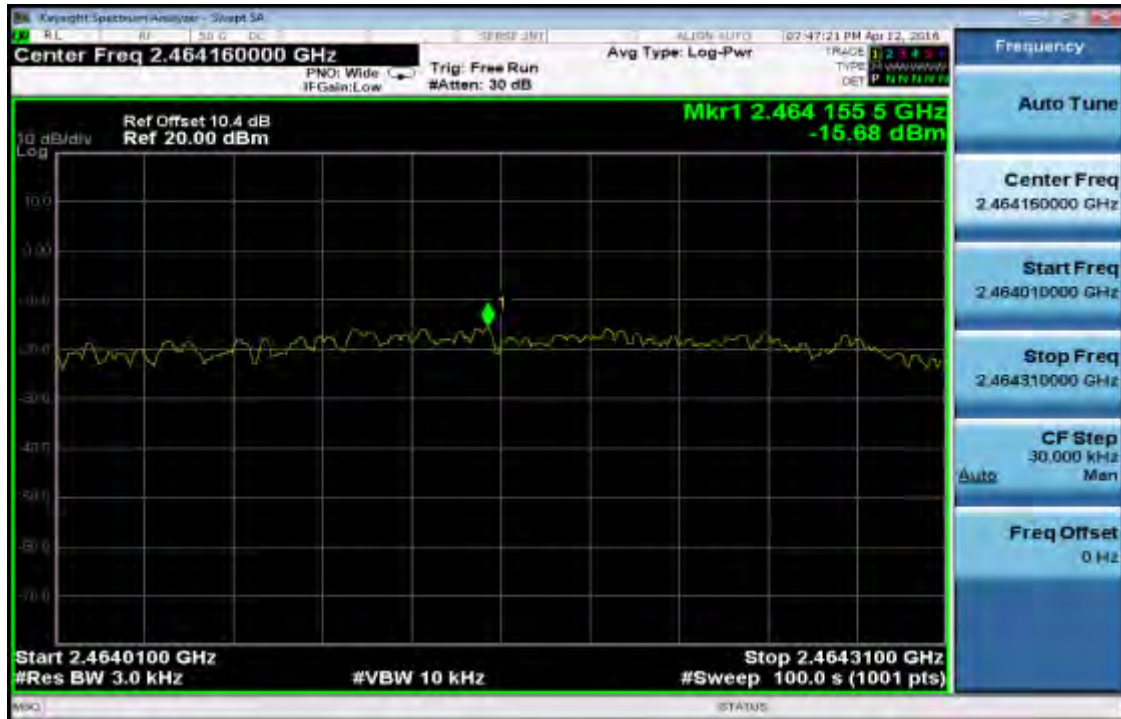
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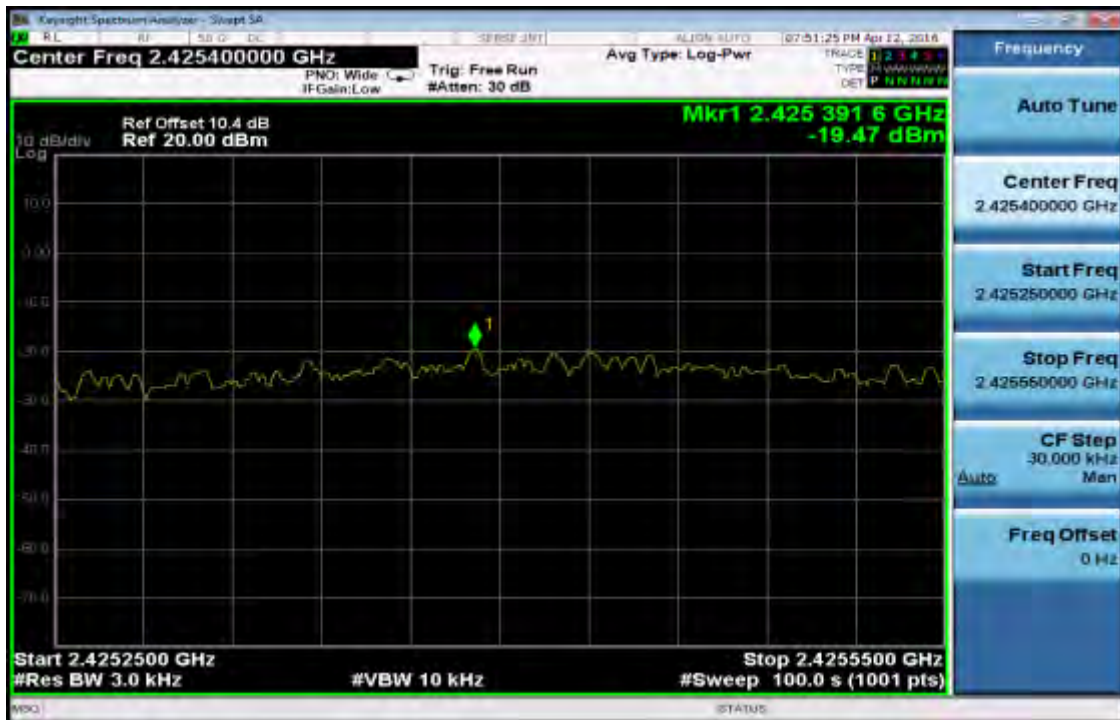
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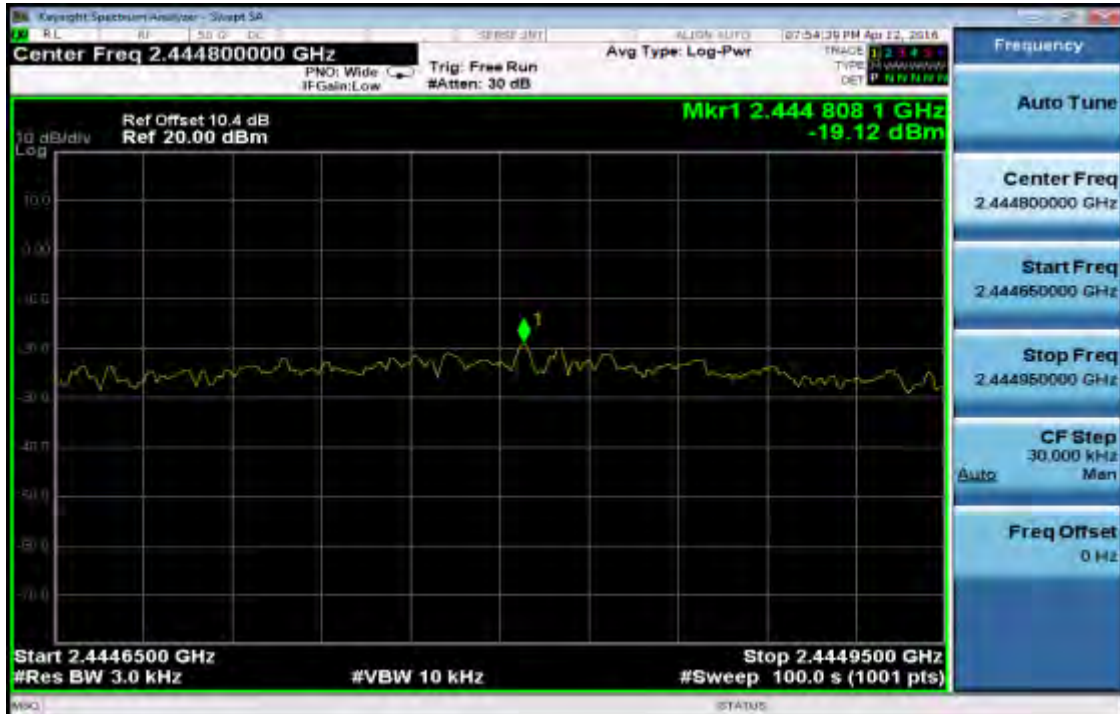
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802.11n HT40 Mode Test Data Plot

CH Low 功率密度量測值



CH Mid 功率密度量測值



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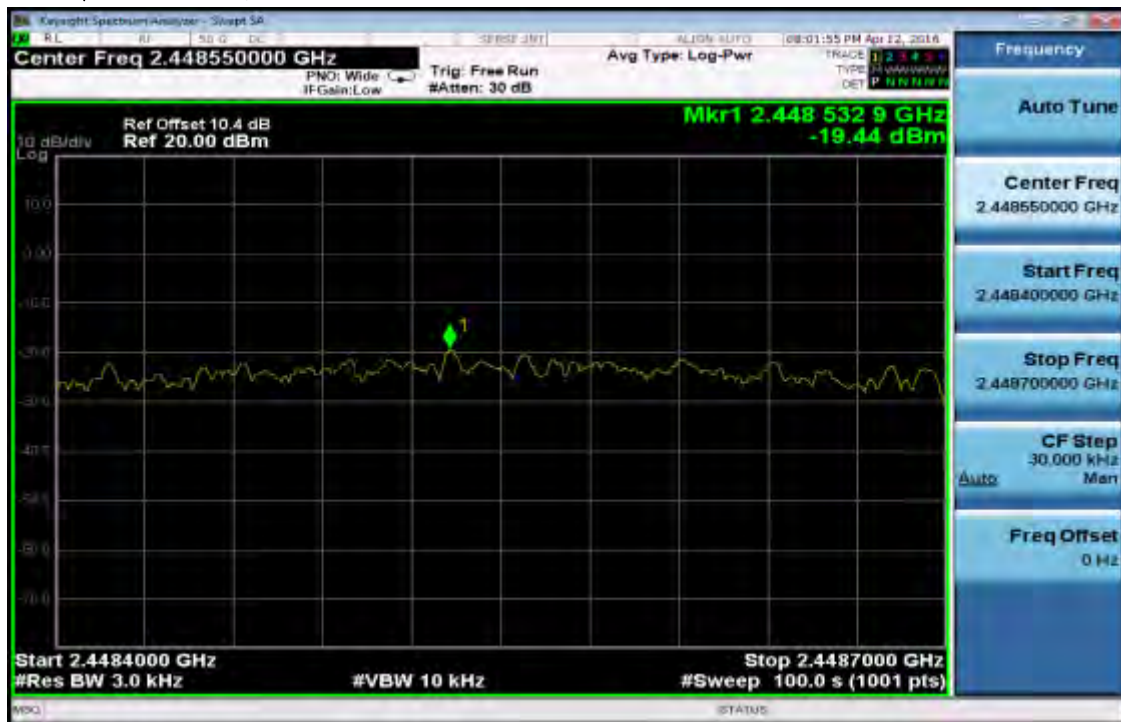
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12 最大暴露允許值 (Maximum Permissible Exposure, MPE)

12.1 規範要求

依據 NCC 低功率射頻電機技術規範之 5.20.2，其發射機距離人體 20 公分以上者，需證明其符合電波暴露量之要求。

限制值如下：

(1) 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	6
3-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500	-----	-----	f/300	6
1,500-100,000	-----	-----	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

(2) 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	30
3-30	1842/f	4.89/f	*180/f ²	30
30-300	27.5	0.073	1.0	30
300-1,500	-----	-----	f/1500	30
1,500-100,000	-----	-----	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

12.2 適用種類

此待測物，為一般市面上販售，固適用表 2)之限制值

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12.2 最大暴露允許值之評估

天線種類: Dipole Antenna

802.11b (最差模式)

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2412	19.26	0.0843	1
2437	19.16	0.0824	1
2462	19.35	0.0861	1

模式: (802.11b)

導入之公式: page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

S = 功率密度

P = 傳導功率

G = 天線增益值

R = 人體與天線之距離

Maximum peak output power at antenna input	19.35	(dBm)
Maximum peak output power at antenna input	86.099375	(mW)
Duty cycle:	100	(%)
Maximum Pav :	86.099375	(mW)
Antenna gain (typical):	2	(dBi)
Maximum antenna gain:	1.5848932	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2462	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.027161	(mW/cm ²)

運算之結果:

當功率密度在 20 cm，其最大暴射值為 0.027161mW/cm²

註: 工作頻率為頻率範圍 1,500-100,000 (MHz), 固其對應之限制值為 1.0 (mW/cm²)。

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802.11n_HT20 (最差模式)

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2412	11.68	0.0147	1
2437	12.29	0.0169	1
2462	12.87	0.0194	1

模式: (802.11n_HT20)

導入之公式: page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

S = 功率密度

P = 傳導功率

G = 天線增益值

R = 人體與天線之距離

Maximum peak output power at antenna input	12.87	(dBm)
Maximum peak output power at antenna input	19.36422	(mW)
Duty cycle:	100	(%)
Maximum Pav :	19.36422	(mW)
Antenna gain (typical):	2	(dBi)
Maximum antenna gain:	1.5848932	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2462	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.006109	(mW/cm ²)

運算之結果:

當功率密度在 20 cm，其最大暴射值為 0.006109mW/cm²。註: 工作頻率為頻率範圍 1,500-100,000 (MHz), 固其對應之限制值為 1.0 (mW/cm²)。

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802.11n_HT40 (最差模式)

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2422	10.11	0.0103	1
2437	10.25	0.0106	1
2452	10.33	0.0108	1

模式: (802.11n_HT20)

導入之公式: page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

S = 功率密度

P = 傳導功率

G = 天線增益值

R = 人體與天線之距離

Maximum peak output power at antenna input	10.33	(dBm)
Maximum peak output power at antenna input	10.789467	(mW)
Duty cycle:	100	(%)
Maximum Pav :	10.789467	(mW)
Antenna gain (typical):	2	(dBi)
Maximum antenna gain:	1.5848932	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2452	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.003404	(mW/cm ²)

運算之結果:

當功率密度在 20 cm，其最大暴射值為 0.003404mW/cm².

註: 工作頻率為頻率範圍 1,500-100,000 (MHz), 固其對應之限制值為 1.0 (mW/cm²)。

12.4 判定結果

由 12.3 節所記錄之結果，最大暴露值為符合。

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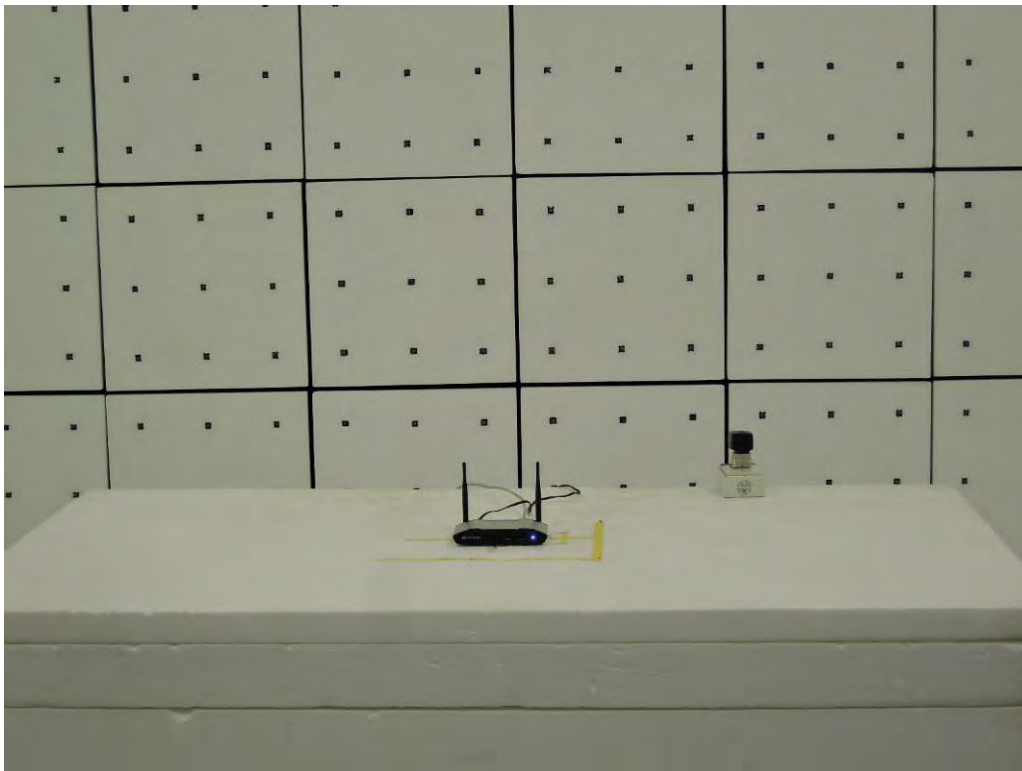
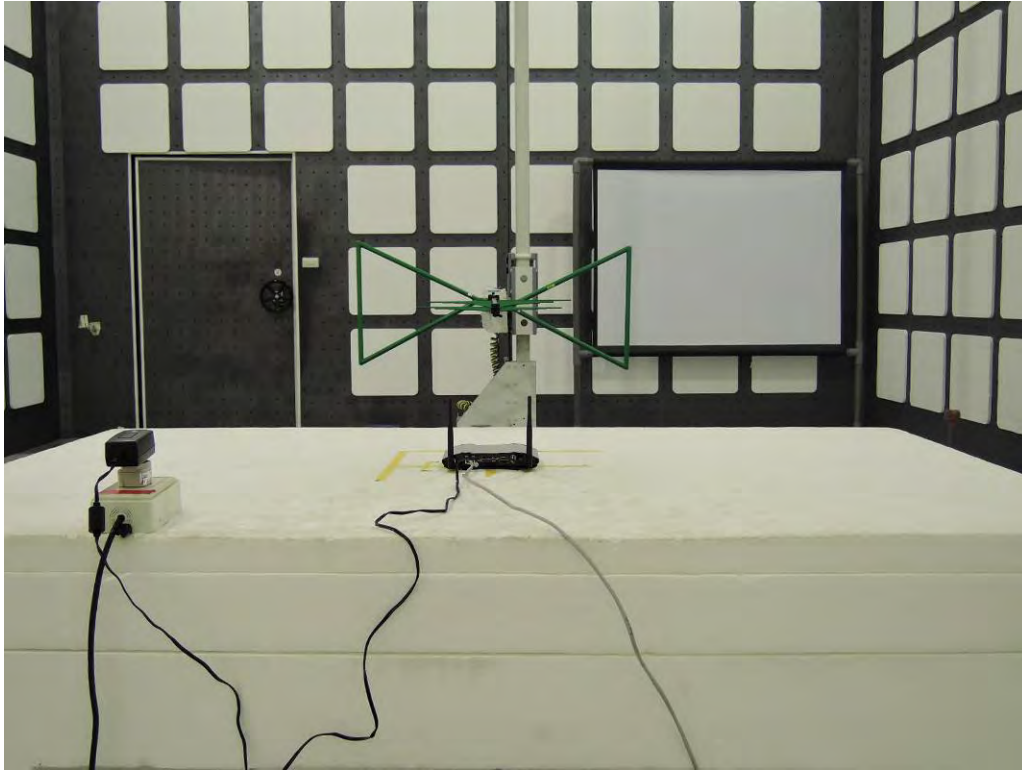
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測試照片

Radiated 量測之配置照片 (Below 1G)



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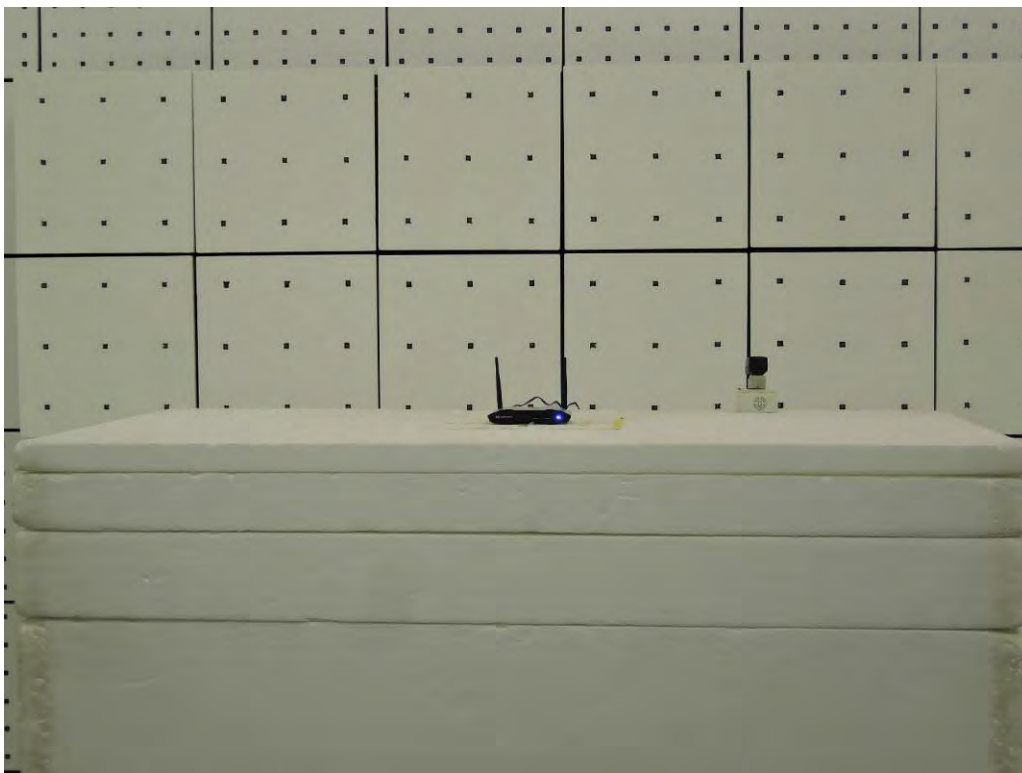
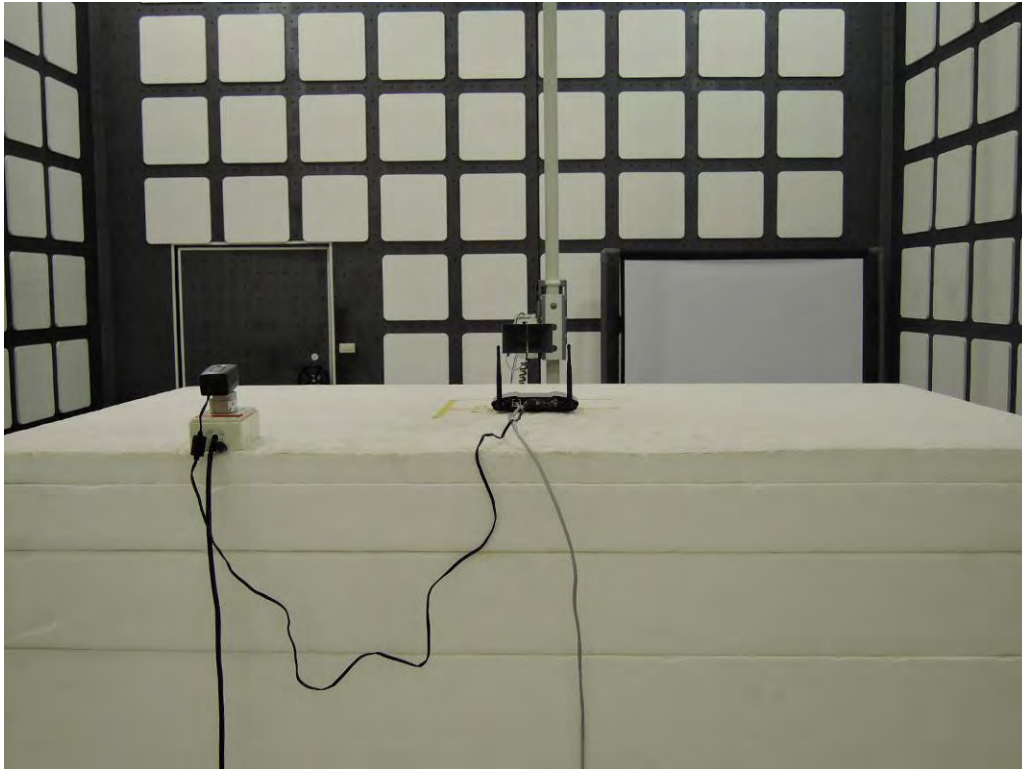
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Radiated 量測之配置照片 (Above 1G)



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傳導干擾量測之配置照片



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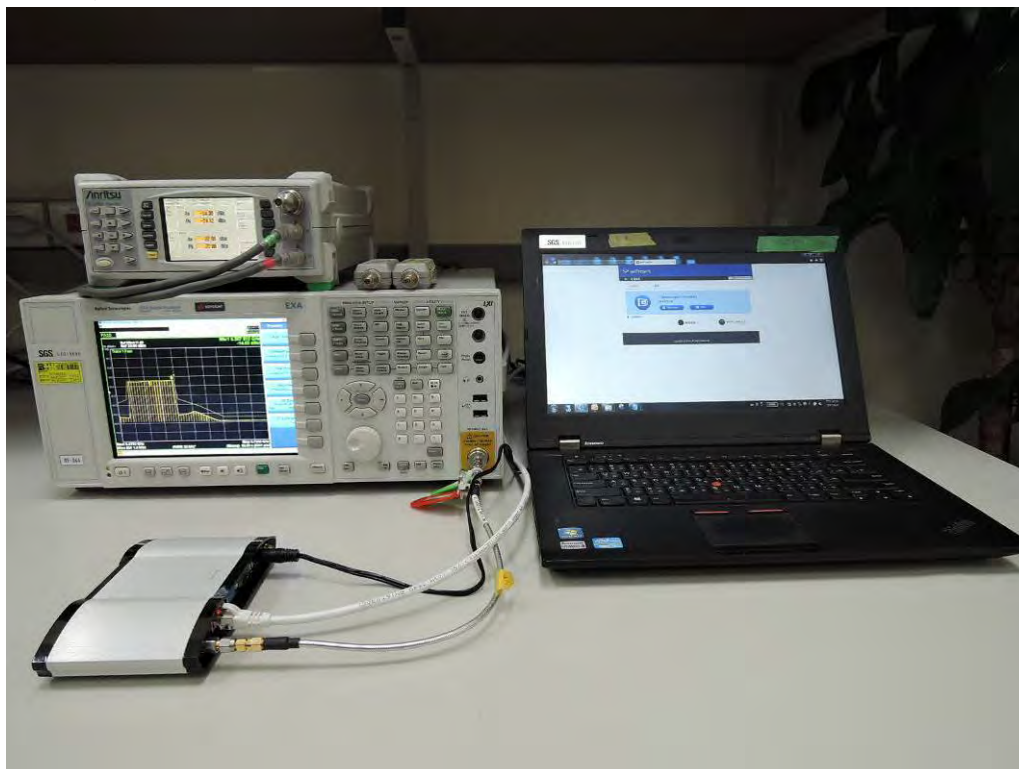
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Conducted 量測之配置照片



產品照片

Please refer to the attached file(EUT Photo)

~ End of Report ~

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