

低功率射頻電機試驗報告

申請廠商	鴻海精密工業股份有限公司 新北市土城區中山路66號
製造廠商	鴻海精密工業股份有限公司(台灣)
產品名稱	2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module
廠牌	Foxconn
型號	WBU034-EA
發射功率	請見本報告第8頁
工作頻率	802.11 a mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz 802.11 n HT20 / ac VHT20 mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz 802.11 n HT40 / ac VHT40 mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz 802.11 ac VHT80 mode: 5150MHz~5250MHz 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz
調變方式	OFDM
使用規範	LP0002 4.7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105年08月05日

完成日期 民國108年07月23日

張俊卿

報告簽署人
張俊卿簽章

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
ER/2017/70188	Rev.00	Initial creation of document	All	Aug. 11, 2017	Violetta Tang
ER/2017/70188-01	Rev.01	Revise standard section from 3.10.5 to 3.10.1.5	17	Jul. 23, 2019	Violetta Tang

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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。

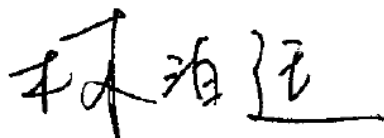
台灣檢驗科技股份有限公司根據此條文規範項目測試，測試各項數據皆能符合此規範規定之限度值。

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：

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

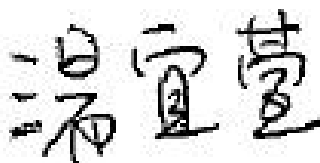


日期：

07/23/2019

林泊廷 / 工程師

報告製作：

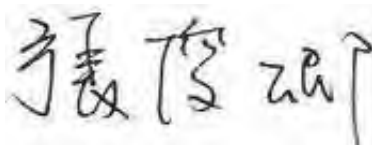


日期：

07/23/2019

湯宜瑩 / 行政

報告審核：



日期：

07/23/2019

張俊卿 / 經理

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

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1 一般資料

1.1 產品描述

產品名稱	2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module
產品型號	WBU034-EA
產品商標	Foxconn
HW version:	MP
SW version:	N/A
使用電源	3.3Vdc from Test Kit

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發射頻帶	802.11 a mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz 802.11 n HT20 / ac VHT20 mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz 802.11 n HT40 / ac VHT40 mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz 802.11 ac VHT80 mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz		
輸出功率 (Avg.)	802.11 a mode	5150MHz~5250MHz	14.44dBm
		5250MHz~5350MHz	14.47dBm
		5470MHz~5725MHz	14.49dBm
		5725MHz~5850MHz	14.49dBm
	802.11n HT20 / ac VHT20 mode	HT20 5150MHz~5250MHz	14.48dBm
		HT20 5250MHz~5350MHz	14.49dBm
		HT20 5470MHz~5725MHz	14.46dBm
		HT20 5725MHz~5850MHz	14.46dBm
	802.11n HT40 / ac VHT40 mode	HT40 5150MHz~5250MHz	14.42dBm
		HT40 5250MHz~5350MHz	14.49dBm
		HT40 5470MHz~5725MHz	14.49dBm
		HT40 5725MHz~5850MHz	14.45dBm
	802.11 ac VHT80 mode	VHT80 5150MHz~5250MHz	14.21dBm
		VHT80 5250MHz~5350MHz	14.24dBm
		VHT80 5470MHz~5725MHz	14.18dBm
		VHT80 5725MHz~5850MHz	14.09dBm
調變方式	64QAM, 16QAM, QPSK, BPSK for OFDM		

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頻道數	802.11a: 5150~5250MHz: 4 channels, 802.11a: 5250~5350MHz: 4 channels 802.11a: 5470~5725MHz: 12 channels 802.11a: 5725~5850MHz: 5 channels 802.11n HT20 / ac VHT20: 5150~5250MHz: 4 channel 802.11n HT20 / ac VHT20: 5250~5350MHz: 4 channels 802.11n HT20 / ac VHT20: 5470~5725MHz: 11 channels 802.11n HT20 / ac VHT20: 5725~5850MHz: 5 channels 802.11n HT40 / ac VHT40: 5150~5250MHz: 2 channels 802.11n HT40 / ac VHT40: 5250~5350MHz: 2 channel 802.11n HT40 / ac VHT40: 5470~5725MHz: 5 channels 802.11n HT40 / ac VHT40: 5725~5850MHz: 2 channels 802.11ac VHT80: 5150~5250MHz: 1 channel 802.11ac VHT80: 5250~5350MHz: 1 channel 802.11ac VHT80: 5470~5725MHz: 2 channel 802.11ac VHT80: 5725~5850MHz: 1 channel
天線	PIFA Antenna, Supplier: Hon Hai Precision Industry Co., Ltd. ANT 0 1. Model No.: W-M-D-B-N-0-0100 5GHz Gain: 1.28dBi (5150MHz-5250MHz) 5GHz Gain: 1.28dBi (5250MHz-5350MHz) 5GHz Gain: 2.21dBi (5470MHz-5725MHz) 5GHz Gain: 1.01dBi (5725MHz-5850MHz) 2. Model No.: W-M-D-B-N-0-0390 5GHz Gain: 0.178dBi (5150MHz-5250MHz) 5GHz Gain: 0.178dBi (5250MHz-5350MHz) 5GHz Gain: 1.108dBi (5470MHz-5725MHz) 5GHz Gain: -0.092dBi (5725MHz-5850MHz) ANT 1 1. Model No.: W-M-D-B-N-0-0100 5GHz Gain: 1.28dBi (5150MHz-5250MHz) 5GHz Gain: 1.28dBi (5250MHz-5350MHz) 5GHz Gain: 2.21dBi (5470MHz-5725MHz) 5GHz Gain: 1.01dBi (5725MHz-5850MHz) 2. Model No.: W-M-D-B-N-1-0260 5GHz Gain: 0.672dBi (5150MHz-5250MHz) 5GHz Gain: 0.672dBi (5250MHz-5350MHz) 5GHz Gain: 1.602dBi (5470MHz-5725MHz) 5GHz Gain: 0.402dBi (5725MHz-5850MHz)

本報告針對802.11 a/ac/n_HT/VHT 20M、n_HT/VHT 40M、VHT 80 WLAN測試。

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1.2 產品特性

此裝置符合IEEE Std 802.11a/ac/n 標準。其發射頻率落於5150MHz至5250MHz,5250MHz至5350MHz及5470MHz至5725MHz, 5725MHz至5850MHz。

802.11a/n/ac mode 採用正交分頻多工OFDM調變技術之發射頻率全段：落於5150-5250MHz共有4個頻道，5250-5350 MHz共有4個頻道及5350MHz及5470MHz共有11個頻道，及5725MHz及5850MHz共有5個頻道。

5150-5250MHz使用頻率表如下：

802.11a / n HT20 Mode, 802.11ac VHT20 Mode
頻率範圍 5150-5250MHz
802.11a / n HT20, 802.11ac VHT20 channel
5180
5200
5220
5240

802.11 n HT40 Mode, 802.11ac VHT40 Mode
頻率範圍 5150-5250MHz
802.11n HT40, 802.11ac VHT40 channel
5190
5230

802.11ac VHT80 Mode
頻率範圍 5150-5250MHz
802.11ac VHT80 channel
5210

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5250-5350MHz使用頻率表如下:

802.11a / n HT20 Mode
頻率範圍 5250-5350MHz
802.11a / n HT20 channel
5260
5280
5300
5320

802.11 n HT40 Mode
頻率範圍 5250-5350MHz
802.11n HT40 channel
5270
5310

802.11ac VHT20 Mode
頻率範圍 5250-5350MHz
802.11ac VHT20 channel
5260
5280
5300
5320

802.11ac VHT40 Mode
頻率範圍 5250-5350MHz
802.11ac VHT40 channel
5270
5310

802.11ac VHT80 Mode
頻率範圍 5250-5350MHz
802.11ac VHT80 Channel
5290

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5470-5725MHz使用頻率表如下:

802.11a / n HT20, 802.11 ac VHT20 Mode	
頻率範圍 5470-5725MHz	
802.11a / n HT20, 802.11 ac VHT20 channel	
5500	5620
5520	5640
5540	5660
5560	5680
5580	5700
5600	

802.11 n HT40 , 802.11 ac VHT40 Mode	
頻率範圍 5470-5725MHz	
802.11 n HT40, 802.11 ac VHT40 channel	
5510	5630
5550	5670
5590	

802.11 ac VHT80 Mode
頻率範圍 5470-5725MHz
802.11 ac VHT80 channel
5530
5610

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5725-5850MHz使用頻率表如下:

802.11a / n HT20, 802.11 ac VHT20 Mode
頻率範圍 5725-5850MHz
802.11a / n HT20, 802.11 ac VHT20 channel
5745
5765
5785
5805
5825

802.11 n HT40, 802.11 ac VHT40 Mode
頻率範圍 5725-5850MHz
802.11 n HT40, 802.11 ac VHT40 channel
5755
5795

802.11 ac VHT80 Mode
頻率範圍 5725-5850MHz
802.11 ac VHT80 channel
5775

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*測試模式:

RADIATED EMISSION TEST (BELOW 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	MAIN
802.11a	5260~5320	52 to 64	60	OFDM	6	MAIN
802.11a	5500~5700	100 to 140	116	OFDM	6	MAIN
802.11a	5745~5825	149 to 165	157	OFDM	6	MAIN

RADIATED EMISSION TEST (ABOVE 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac VHT80	5530~5610	106 to 122	106, 122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac VHT80	5775	155	155	OFDM	MCS8	MIMO

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac VHT80	5530~5610	106 to 122	106, 122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac VHT80	5775	155	155	OFDM	MCS8	MIMO

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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 15.407、FCC 14-30、KDB 789033D02 之檢驗法。

低功率射頻電機技術規範4.7節及FCC Part 15.407

項次	測試項目	適用規範	測試結果	量測設備	備註
1	不必要發射之限制	低功率射頻電機技術規範 4.7.4	請參閱6.5節	請參閱 4.2; 4.3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4.1節	合格
3	天線增益之要求	低功率射頻電機技術規範 4.7.2 (1), (2), (3)	請參閱7.2節	-----	合格
4	26 dB& 6dB頻寬	低功率射頻電機技術規範 4.7.3 ,4	請參閱8.4節	請參閱4.3節	合格
5	最大輸出功率	低功率射頻電機技術規範 4.7.3	請參閱9.4節	請參閱4.3節	合格
6	功率密度	低功率射頻電機技術規範 4.7.3	請參閱10.4節	請參閱4.3節	合格
7	發射功率控制(TPC) 及動態頻率選擇 (DFS)	低功率射頻電機技術規範 4.7.7	請參閱11.6節	請參閱11.4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 之電源線阻抗模據網路 (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節之要求，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	3260.0~3267.0
0.490~0.510	322.00~335.40	3332.0~3339.0
2.172~2.198	399.90~410.00	3345.8~3358.0
3.013~3.033	485.00~510.00	3500.0~4400.0
4.115~4.198	608.00~614.00	4500.0~5250.0
5.670~5.690	703.00~748.00	5350.0~5460.0
6.200~6.300	758.00~803.00	7250.0~7750.0
8.230~8.400	825.00~915.00	8025.0~8500.0
12.265~12.600	930.00~1240.0	9000.0~9200.0
13.340~13.430	1300.0~1427.0	9300.0~9500.0
14.965~15.020	1435.0~1626.5	10600~12700
16.700~16.755	1435.0 1626.5	13250~13400
19.965~20.020	1660.0~1770.0	14470~14500
25.500~25.700	1805.0~1865.0	15350~16200
37.475~38.275	1885.0~1900.0	17700~21400
73.500~75.400	1905.0~1985.0	22010~23120
108.00~138.00	2015.0~2025.0	23600~24000
149.90~150.05	2125.0~2165.0	31200~31800
156.70~156.90	2200.0~2300.0	36430~36500
162.01~167.17	2310.0~2390.0	38600 以上
167.72~173.20	2483.5~2900.0	

(4) 依據NCC低功率射頻電機技術規範2.11節之要求，收、發信機為成套銷售者，收、發信機應一併送審或提供經型式認證合格之對應收、發信機之送審資料；送信機之輻射電場強度不得超過第2.8節之發射規定，且不得接收、解調第2.7節所列之頻率。

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2.2 規範要求

依據NCC低功率射頻電機技術規範4.7節無線資訊傳輸設備規範之規定如下

(A) 最大輸出功率與功率頻譜密度及天線增益，以及發射限制之要求限制

依據NCC低功率射頻電機技術規範4.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過23 dBi方向增益之指向性天線時，應依超過23 dBi天線方向增益的dBi總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B是26 dB發射頻寬，單位MHz)之較小者。
- (2) 最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。
- (3) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

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使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。
- (4) 除(3)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(B) 不必要發射之限制

依據NCC低功率射頻電機技術規範4.7.4節之要求，在5.15 GHz~5.35 GHz 及5.470 GHz~5.725 GHz 頻段操作的發射器：帶外發射之有效等向輻射功率(EIRP)≤-27 dBm/MHz。

在5.725 GHz~5.850 GHz 的頻段操作之發射器：所有頻帶邊緣向外5 MHz 內頻率之發射，有效等向輻射功率(EIRP)≤27 dBm/MHz~15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外5 MHz~25 MHz，有效等向輻射功率35(EIRP)≤15.6 dBm/MHz~10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外25 MHz~75 MHz，有效等向輻射功率(EIRP)≤10 dBm/MHz~-27 dBm/MHz(以線性法計算對應之限制值)；所有頻帶邊緣外≥75 MHz 的頻率之發射，有效等向輻射功率(EIRP)≤-27 dBm/MHz；有關遮罩限制值詳圖1。

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150 – 5250	-27	68.3
5250 – 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5850	-27	68.3

Limit derivation in terms of Field Strength:

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m),

EIRP is the equivalent isotropically radiated power in Watts.

$E = 1000000 \cdot (30 \cdot EIRP)^{(1/2)} / 3 \text{ uV/m}$

= 68.3dBuV/m

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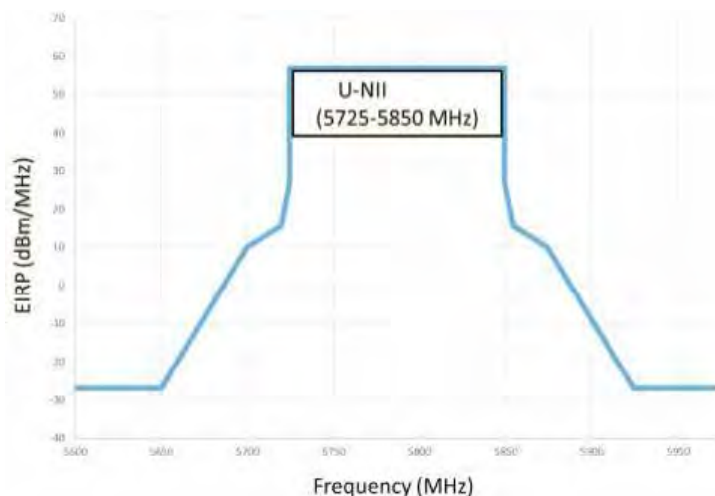


圖 1

(C) 依據 NCC 低功率射頻電機技術規範 4.7.7 節之要求，發射功率控制(TPC)及動態頻率選擇發射功率控制(TPC)：操作於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段的設備，應具備發射功率控制功能。設備必須至少具有6 dB低於平均EIRP 30 dBm的能力。EIRP 低於500 mW 之系統不須具備TPC 功能。

動態頻率選擇(DFS):操作於5.25 GHz~5.35 GHz與5.470 GHz~5.725 GHz頻段之設備應具備動態頻率選擇雷達偵測功能並啟動之，以完整偵測使用頻帶內之雷達訊號，避免與雷達系統同頻道操作。相關規定如下：

(1) 最低動態頻率選擇的偵測門檻

- (A) 最大EIRP 為200 mW~1 W之設備，其最低動態頻率選擇的偵測門檻值為-64dBm。
- (B) 最大EIRP 低於200 mW，且功率頻譜密度小於10 dBm/MHz 之設備，其最低動態頻率選擇的偵測門檻值為-62 dBm。
- (C) 最大EIRP 低於200 mW，且功率頻譜密度大於或等於10 dBm/MHz 之設備，其最低動態頻率選擇的偵測門檻值為-64 dBm。
- (D) 此偵測門檻值為1 微秒內之平均接收功率，並以0 dBi 天線為參考基準。頻道初始設定得由系統隨機選取或使用使用者手動選取。

(2) 操作模式：動態頻率選擇之規定適用於以下之操作模式：

- (A) 頻道可用性檢查時間之規定，適用於主控運作模式。
- (B) 頻道移動時間之規定，適用於主控及受控運作模式。

(3) 頻道可用性檢查時間：設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達訊號時，設備才可開始使用該頻道。

(4) 頻道移動時間：在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在10秒內停止，在

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偵測到雷達訊號後，該期間內的傳輸應維持最多200 毫秒的正常通訊。
另外，間歇性的管理與控制訊號可在剩餘的時間中傳送，以便撤離該操作頻道。

(5) 不可佔用期間：某一頻道已被頻道可用性檢查或”服務中”監視顯示含有雷達系統，至少須有30分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

(D) 依據 NCC 低功率射頻電機技術規範 4.7.3.4 節之要求，26dB & 6dB 發射頻寬之測試

(1) 5.15 GHz~5.25 GHz、5.25 GHz~5.35 GHz 及 5.47 GHz~5.725 GHz 頻段，測試儀器之頻寬應設定為1 MHz 頻寬或待測物之26 dB發射頻寬，兩者取較小者。

(2) 5.725 GHz~5.850 GHz 頻段，測試儀器之頻寬應設定為500 kHz 或待測物之26dB發射頻寬，兩者取較小者。

解析頻寬小於(1)或(2)時，應以補償方式計算總功率頻譜密度。

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3 受測裝置之系統說明

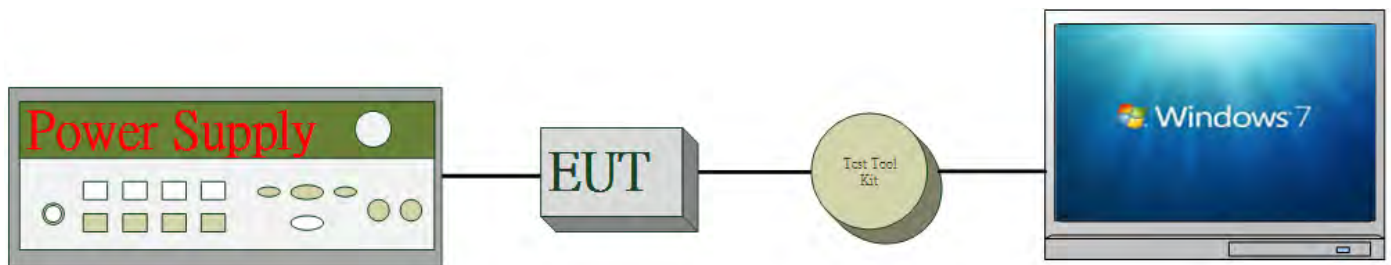
裝置名稱	製造者/申請者	型號	纜線說明
* 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module	鴻海精密工業股份有限公司/ 鴻海精密工業股份有限公司	WBU034-EA	無纜線

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	信號線線長(米)	電源線長(米)
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L420	LR-7HXZA	Shielded	Un-shielded
3.	DC Power Supply	HP	E3640A	KR93300208	N/A	Un-shielded
4.	Test Kit	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

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/22/2017	05/21/2018
LISN	MESS TEC	FCC-LISN-50/250-25-2-01	4034	03/19/2017	03/18/2018
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2016	11/25/2017

4.2 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	ESCI7	100760	05/10/2017	05/09/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/28/2017	01/27/2018
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2016	09/06/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2016	12/13/2017
Horn antenna	ETS.LINDGREN	3117	123991	12/12/2016	12/11/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2017	01/01/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2017	01/01/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2017	01/01/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2017	01/01/2018

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4.3 天線端傳導測試之量測儀器

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

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5 電源線傳導干擾之量測

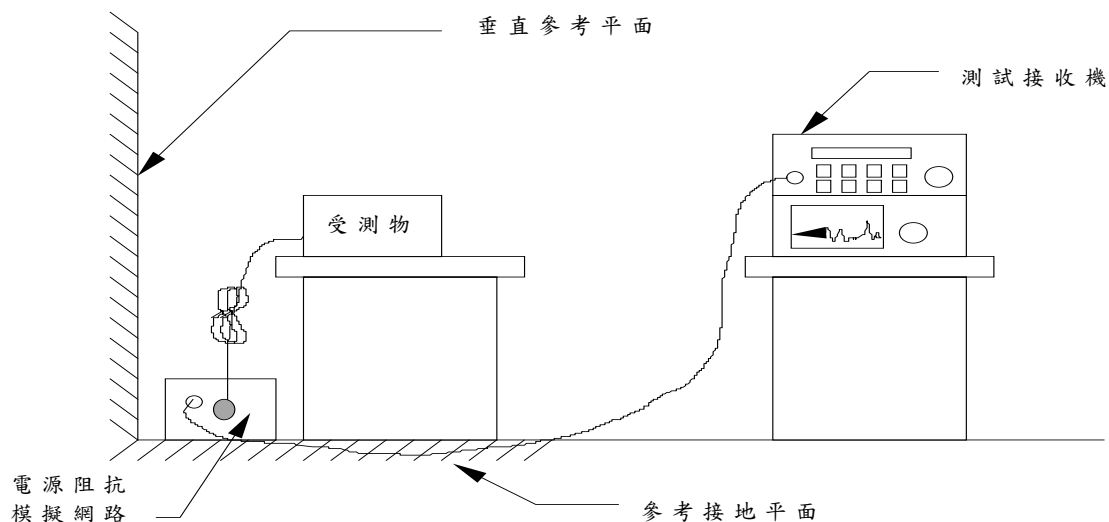
5.1 適用標準

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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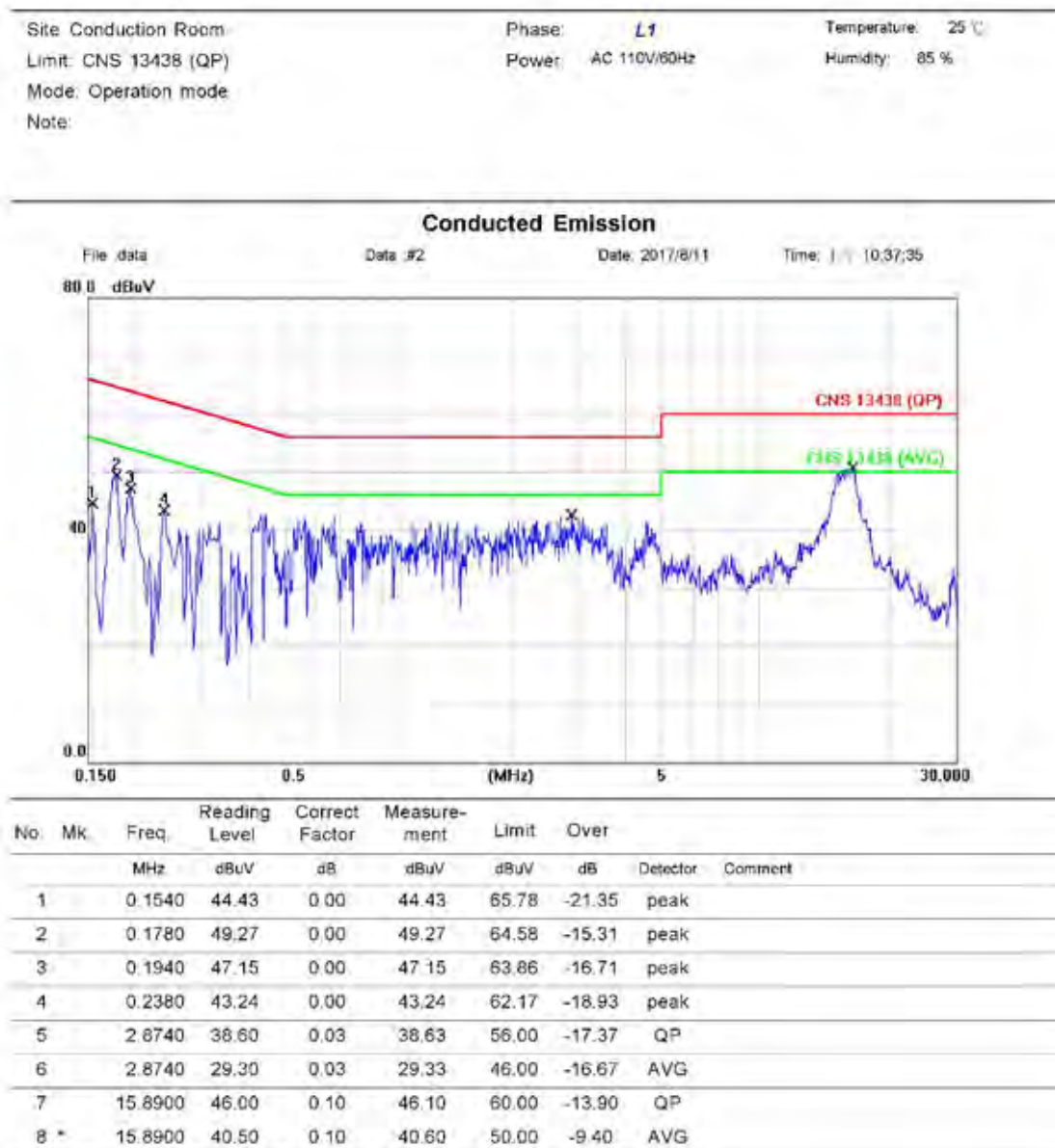
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5.5 傳導干擾之量測結果

測試設備: 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module 型號: WBU034-EA
 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: 柯柏廷 測試日期: Aug. 11, 2017



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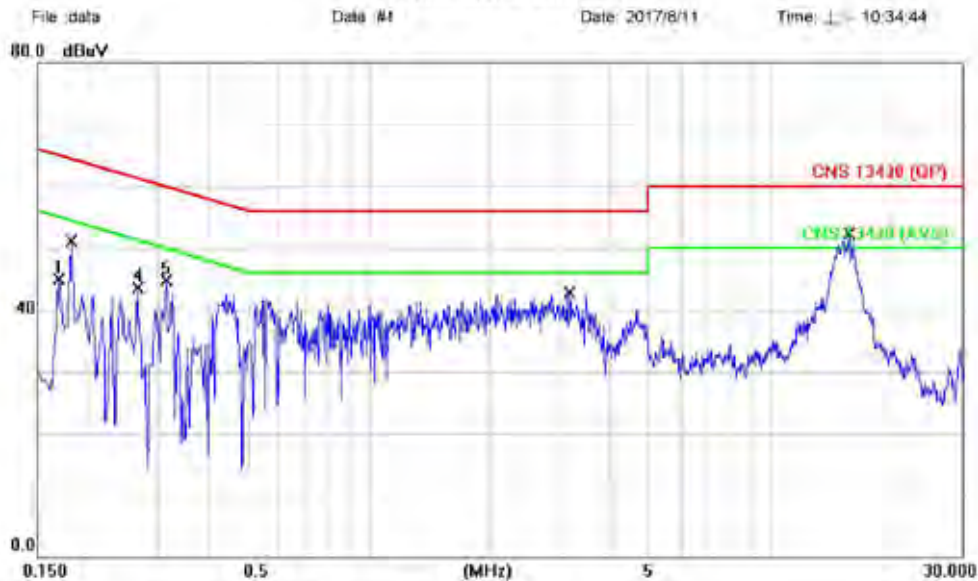
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Site: Conduction Room
Limit: CNS 13438 (QP)
Mode: Operation mode
Note:

Phase: N
Power: AC 110V/60Hz

Temperature: 25 °C
Humidity: 85 %

Conducted Emission



No.	Mk.	Freq	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	44.86	0.00	44.86	64.96	-20.10	peak	
2		0.1820	49.30	0.00	49.30	64.39	-15.09	QP	
3		0.1820	34.70	0.00	34.70	54.39	-19.69	AVG	
4		0.2660	43.48	0.00	43.48	61.24	-17.76	peak	
5		0.3140	44.73	0.00	44.73	59.86	-15.13	peak	
6		3.1660	36.40	0.04	36.44	56.00	-19.56	QP	
7		3.1660	27.80	0.04	27.84	46.00	-18.16	AVG	
8		15.7500	45.90	0.10	46.00	60.00	-14.00	QP	
9 *		15.7500	40.50	0.10	40.60	50.00	-9.40	AVG	

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6 不必要發射限制之量測

6.1 適用標準

依據NCC低功率射頻電機技術規範4.7.4節之要求，在5.15 GHz~5.35 GHz 及5.470 GHz~5.725 GHz 頻段操作的發射器：帶外發射之有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz。

在5.725 GHz~5.850 GHz 的頻段操作之發射器：所有頻帶邊緣向外5 MHz 內頻率之發射，有效等向輻射功率(EIRP) $\leq$ 27 dBm/MHz~15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外5 MHz~25 MHz，有效等向輻射功率35(EIRP) $\leq$ 15.6 dBm/MHz~10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外25 MHz~75 MHz，有效等向輻射功率(EIRP) $\leq$ 10 dBm/MHz~-27 dBm/MHz(以線性法計算對應之限制值)；所有頻帶邊緣外 $\geq$ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz；有關遮罩限制值詳圖1。

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150 – 5250	-27	68.3
5250 – 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5850	-27	68.3

Limit derivation in terms of Field Strength:

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

$$E = 1000000 \cdot (30 \cdot EIRP)^{(1/2)} / 3 \text{ uV/m}$$

$$= 68.3 \text{ dBuV/m}$$

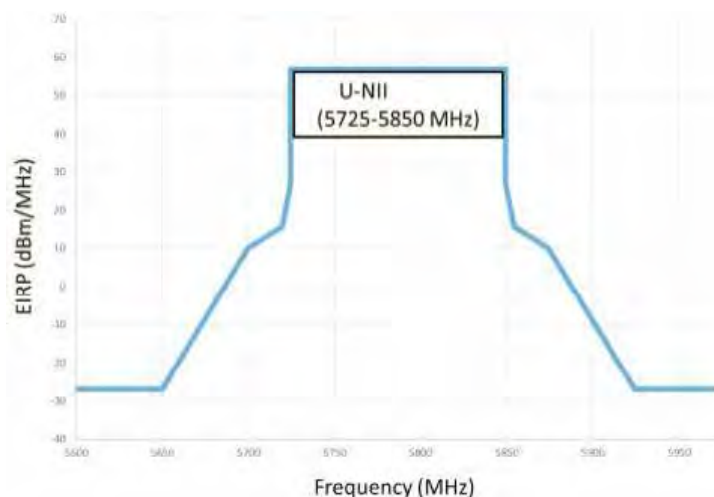


圖1

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LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
V	FIELD STRENGTH AT 3m (dB μ V/m)	
	PK	AV
	74	54
	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dB μ V/m)
	PK	PK
	-27	68.3

6.2 量測方法

輻射場強量測

將待測物置於 0.8 米高的非金屬桌面，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。

輻射傳導量測

將發射機之天線埠經由適當之衰減直接連至測試儀器。設定儀器之解析頻寬為 1MHz, 視訊頻寬 $\geq$ 解析頻寬, 將待測物天線增益 offset 至測試儀器。

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9kHz~150kHz 測試

解析頻寬: 300Hz

視訊頻寬: 300Hz

量測天線: 6502

檢測器: Quasi-Peak

150kHz~30MHz 測試

解析頻寬: 10kHz

視訊頻寬: 10kHz

量測天線: 6502

檢測器: Quasi-Peak

1GHz 以下測試

解析頻寬: 100kHz

視訊頻寬: 100kHz

量測天線: CBL 6112D

檢測器: Quasi-Peak

1GHz 以上測試

量測天線: 3117

檢測器: Peak, Average

頻譜分析儀設定 Peak: RBW: 1MHz ; VBW: 1MHz , Average: RBW: 1MHz ; VBW: 10Hz

註: 輻射量測僅放最差模式 (30MHz 以上)。

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.

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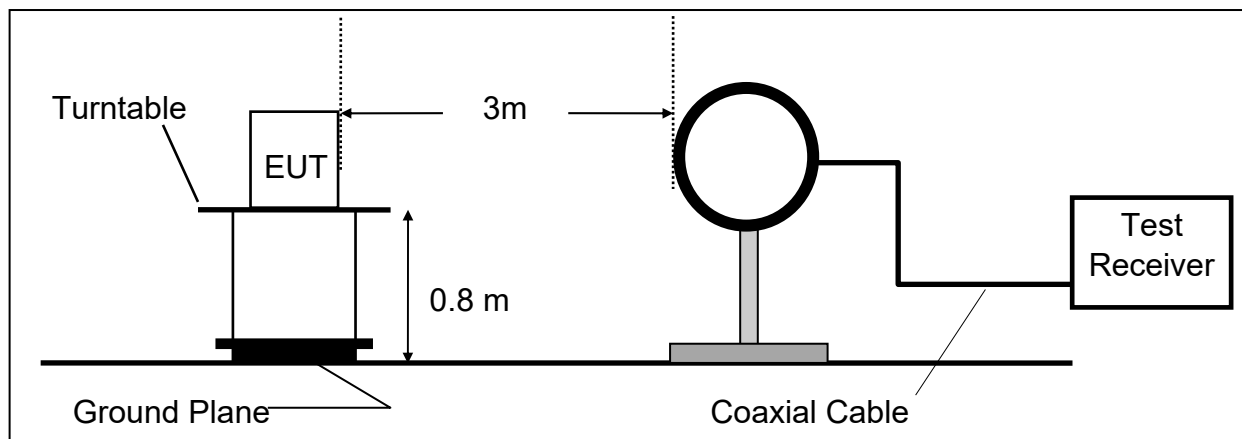
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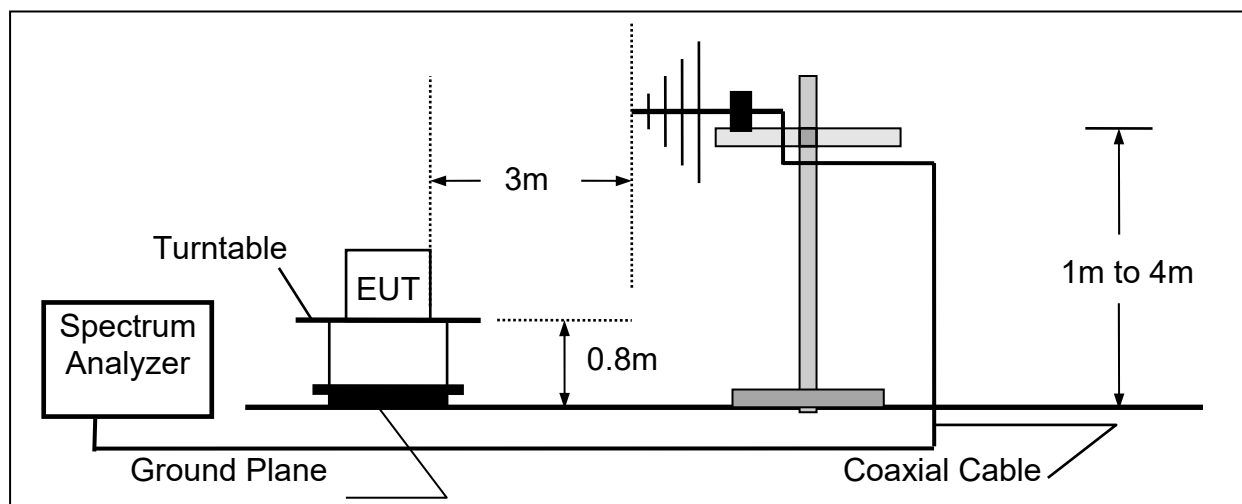
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6.4 輻射之測試配置

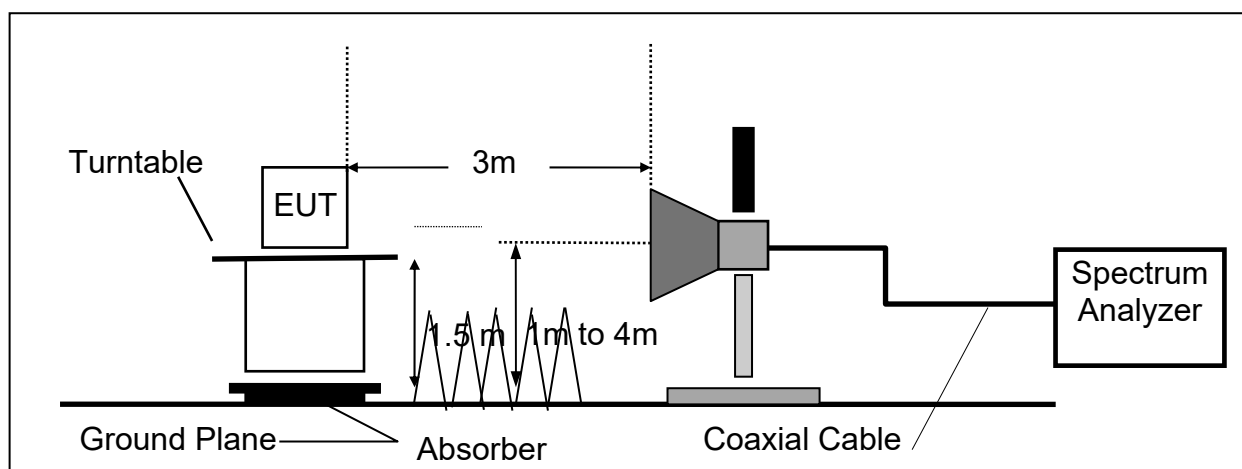
(A) 量測頻率低於 30MHz 以下之測試配置



(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

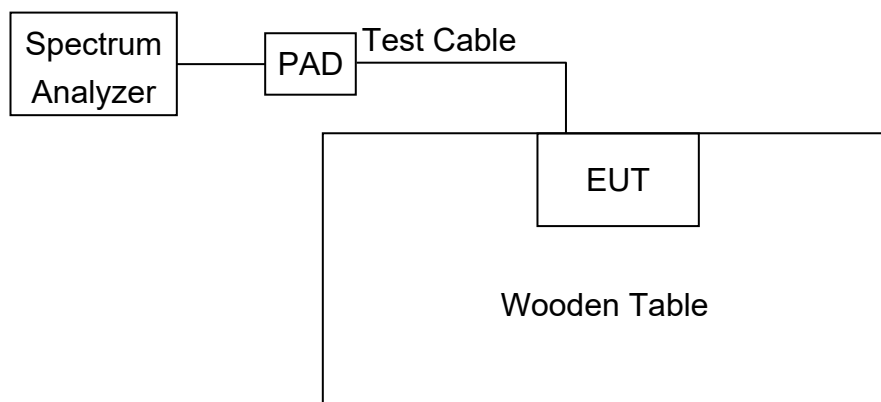


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(D) 傳導之測試配置圖



註: 1 經測試 H, E1 & E2 Plan 後, 附上 H Plan 為最差模式數據。

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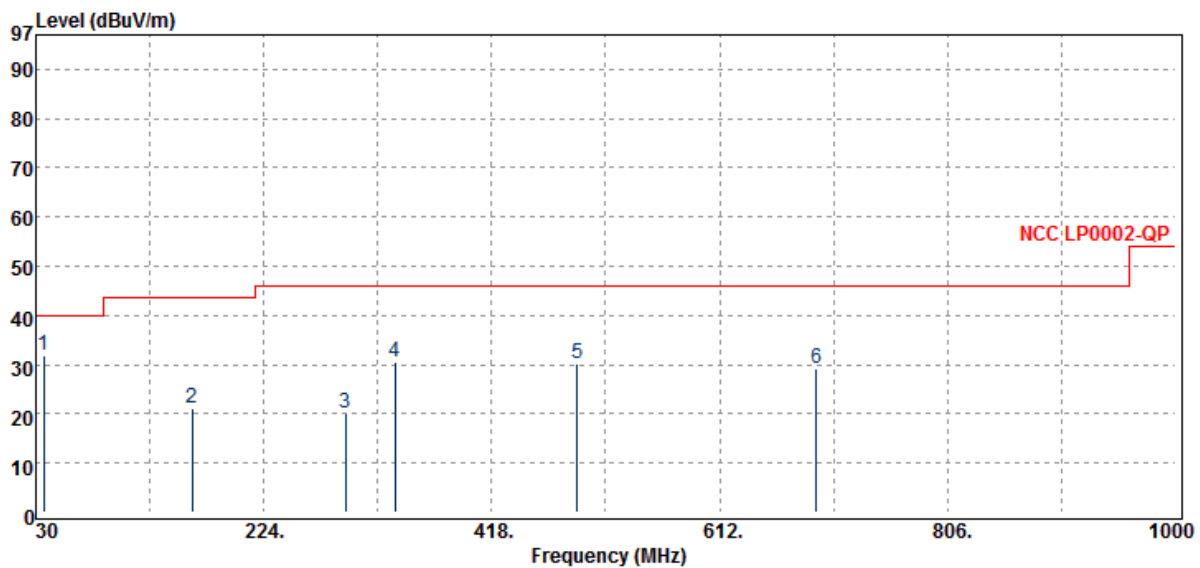
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6.5 場強輻射之量測結果

802.11a / 6Mbps 發射模式 1GHz 以下測試 (5150MHz-5250MHz)

Operation Band	:802.11aB1	Test Date	:2017-07-31
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
36.79	S	Peak	40.62	-8.84	31.78	40.00	-8.22
162.89	S	Peak	28.55	-7.48	21.07	43.50	-22.43
293.84	S	Peak	26.06	-6.04	20.02	46.00	-25.98
335.55	S	Peak	35.88	-5.32	30.56	46.00	-15.44
490.75	S	Peak	32.61	-2.53	30.08	46.00	-15.92
694.45	S	Peak	27.85	1.36	29.21	46.00	-16.79

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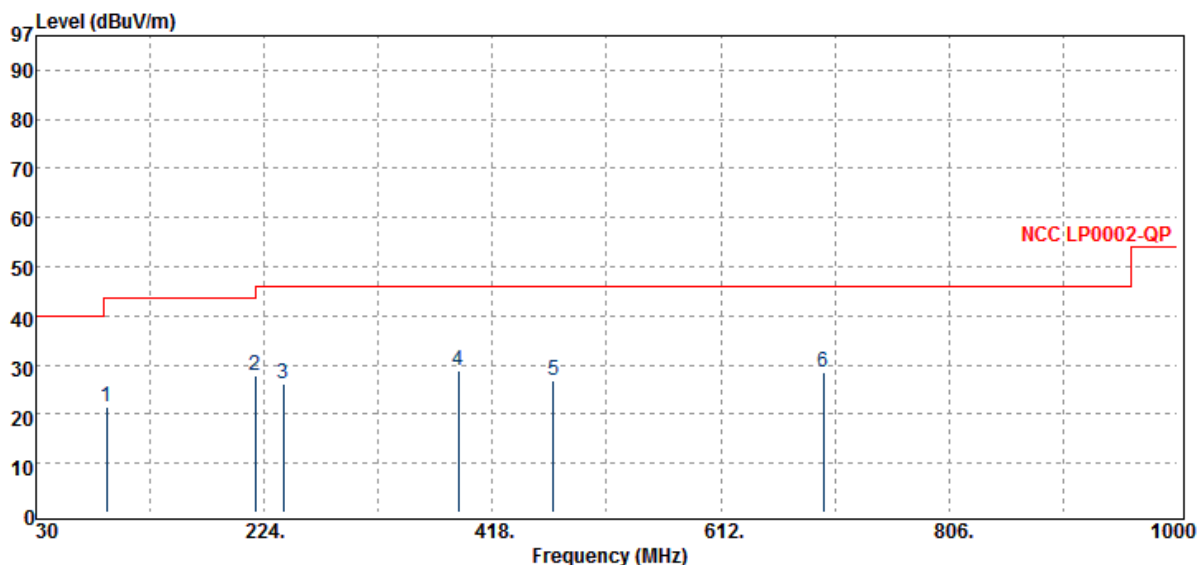
f (886-2) 2298-0488

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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
90.14	S	Peak	35.19	-13.73	21.46	43.50	-22.04
216.24	S	Peak	37.35	-9.43	27.92	46.00	-18.08
240.49	S	Peak	34.09	-8.04	26.05	46.00	-19.95
388.90	S	Peak	33.07	-4.29	28.78	46.00	-17.22
469.41	S	Peak	29.31	-2.59	26.72	46.00	-19.28
699.30	S	Peak	26.99	1.44	28.43	46.00	-17.57

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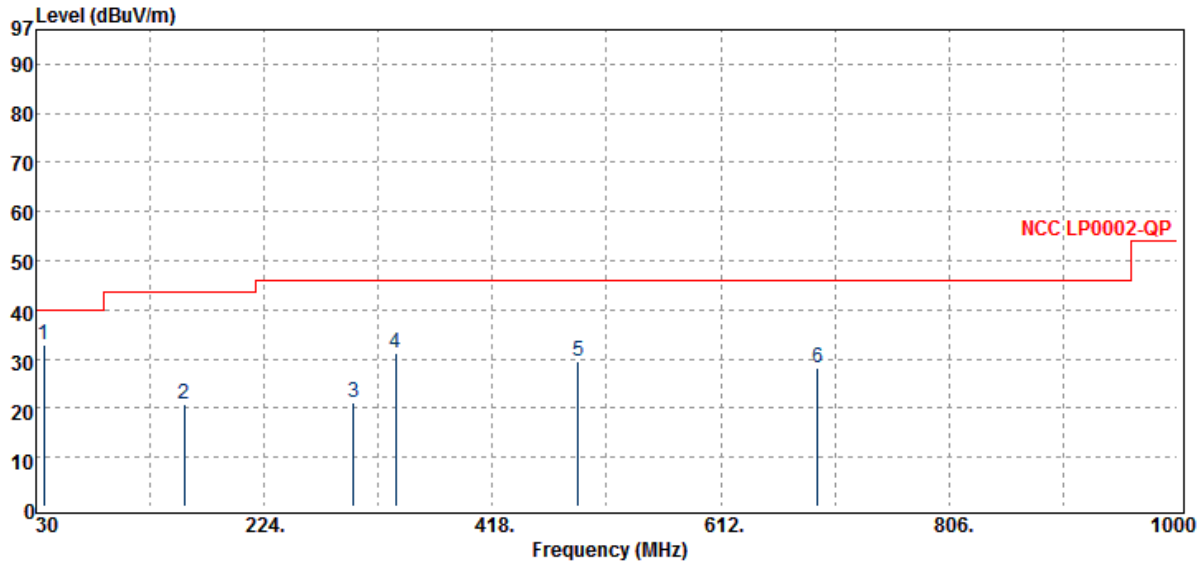
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802.11a / 6Mbps 發射模式 1GHz 以下測試 (5250MHz-5350MHz)

Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
36.79	S	Peak	41.58	-8.84	32.74	40.00	-7.26
156.10	S	Peak	28.28	-7.61	20.67	43.50	-22.83
299.66	S	Peak	26.97	-5.93	21.04	46.00	-24.96
335.55	S	Peak	36.39	-5.32	31.07	46.00	-14.93
490.75	S	Peak	32.02	-2.53	29.49	46.00	-16.51
694.45	S	Peak	26.67	1.36	28.03	46.00	-17.97

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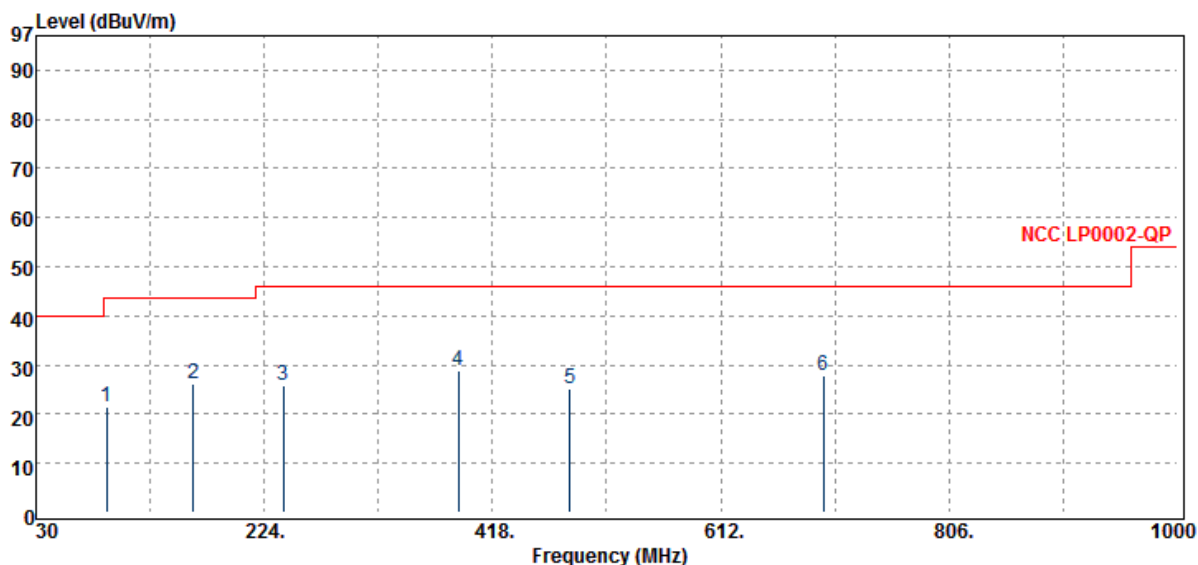
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
90.14	S	Peak	35.35	-13.73	21.62	43.50	-21.88
163.86	S	Peak	33.70	-7.45	26.25	43.50	-17.25
240.49	S	Peak	34.00	-8.04	25.96	46.00	-20.04
388.90	S	Peak	33.02	-4.29	28.73	46.00	-17.27
483.96	S	Peak	27.66	-2.47	25.19	46.00	-20.81
699.30	S	Peak	26.51	1.44	27.95	46.00	-18.05

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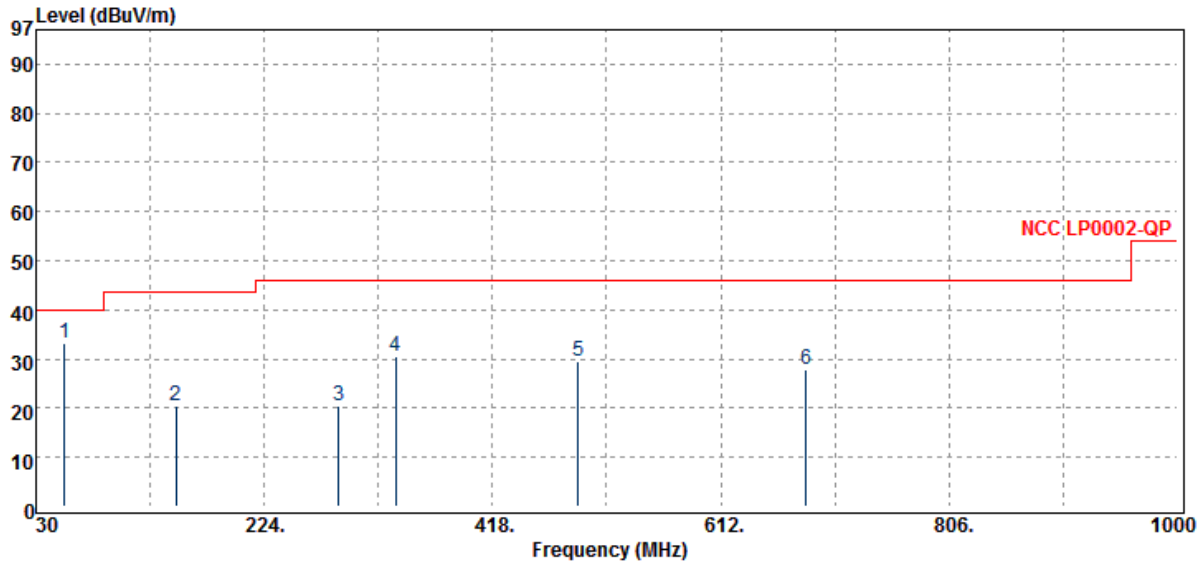
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802.11a / 6Mbps 發射模式 1GHz 以下測試 (5470MHz-5725MHz)

Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
54.25	S	Peak	41.21	-7.82	33.39	40.00	-6.61
149.31	S	Peak	28.39	-7.81	20.58	43.50	-22.92
287.05	S	Peak	26.66	-6.19	20.47	46.00	-25.53
335.55	S	Peak	35.89	-5.32	30.57	46.00	-15.43
490.75	S	Peak	32.12	-2.53	29.59	46.00	-16.41
684.75	S	Peak	26.49	1.28	27.77	46.00	-18.23

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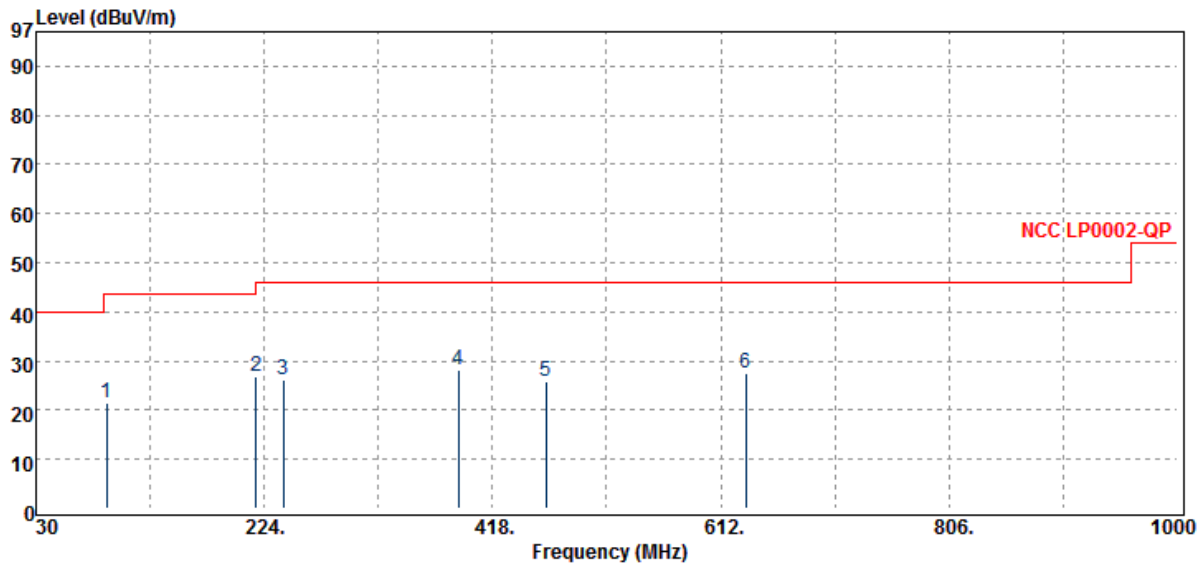
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
90.14	S	Peak	35.14	-13.73	21.41	43.50	-22.09
217.21	S	Peak	36.32	-9.39	26.93	46.00	-19.07
240.49	S	Peak	34.25	-8.04	26.21	46.00	-19.79
388.90	S	Peak	32.51	-4.29	28.22	46.00	-17.78
463.59	S	Peak	28.41	-2.55	25.86	46.00	-20.14
633.34	S	Peak	26.98	0.40	27.38	46.00	-18.62

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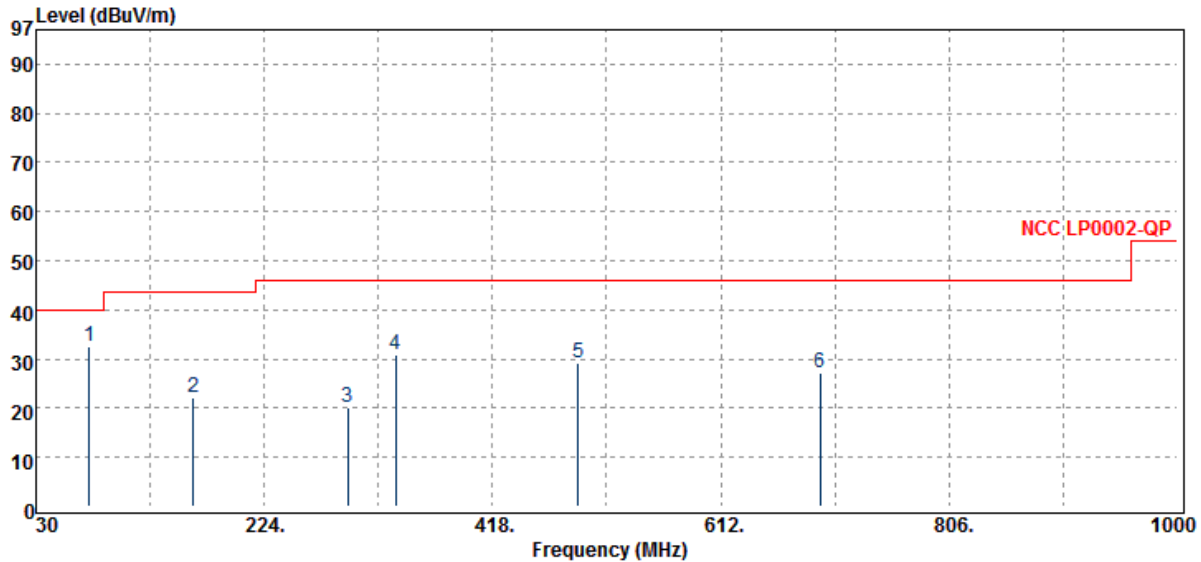
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802.11a / 6Mbps 發射模式 1GHz 以下測試 (5725MHz-5850MHz)

Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
75.59	S	Peak	43.88	-11.45	32.43	40.00	-7.57
163.86	S	Peak	29.55	-7.45	22.10	43.50	-21.40
294.81	S	Peak	26.07	-6.02	20.05	46.00	-25.95
335.55	S	Peak	36.05	-5.32	30.73	46.00	-15.27
490.75	S	Peak	31.86	-2.53	29.33	46.00	-16.67
696.39	S	Peak	25.95	1.35	27.30	46.00	-18.70

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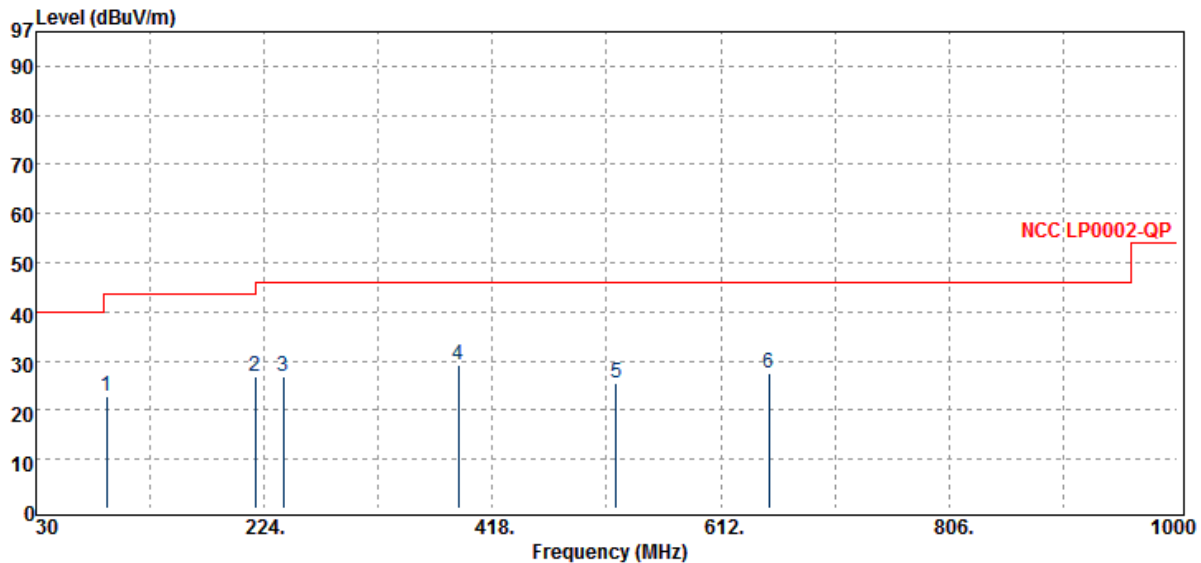
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
90.14	S	Peak	36.61	-13.73	22.88	43.50	-20.62
216.24	S	Peak	36.21	-9.43	26.78	46.00	-19.22
240.49	S	Peak	34.81	-8.04	26.77	46.00	-19.23
388.90	S	Peak	33.56	-4.29	29.27	46.00	-16.73
522.76	S	Peak	27.05	-1.66	25.39	46.00	-20.61
652.74	S	Peak	27.09	0.53	27.62	46.00	-18.38

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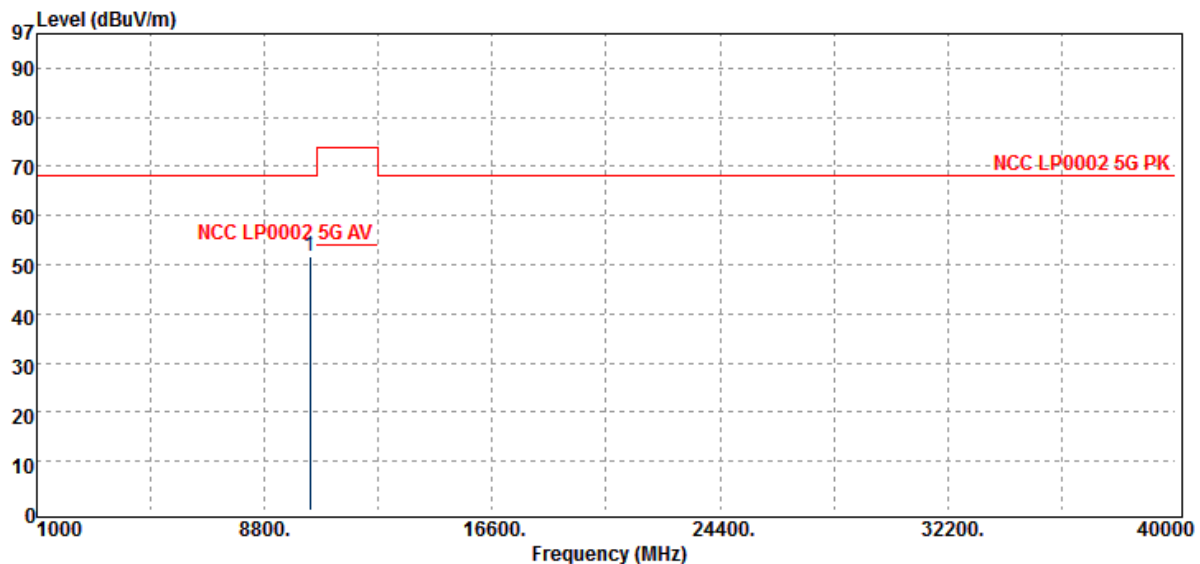
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802.11a / 6Mbps 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

Operation Band	:802.11aB1	Test Date	:2017-07-31
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10360.00	H	Peak	33.55	18.29	51.84	68.30	-16.46

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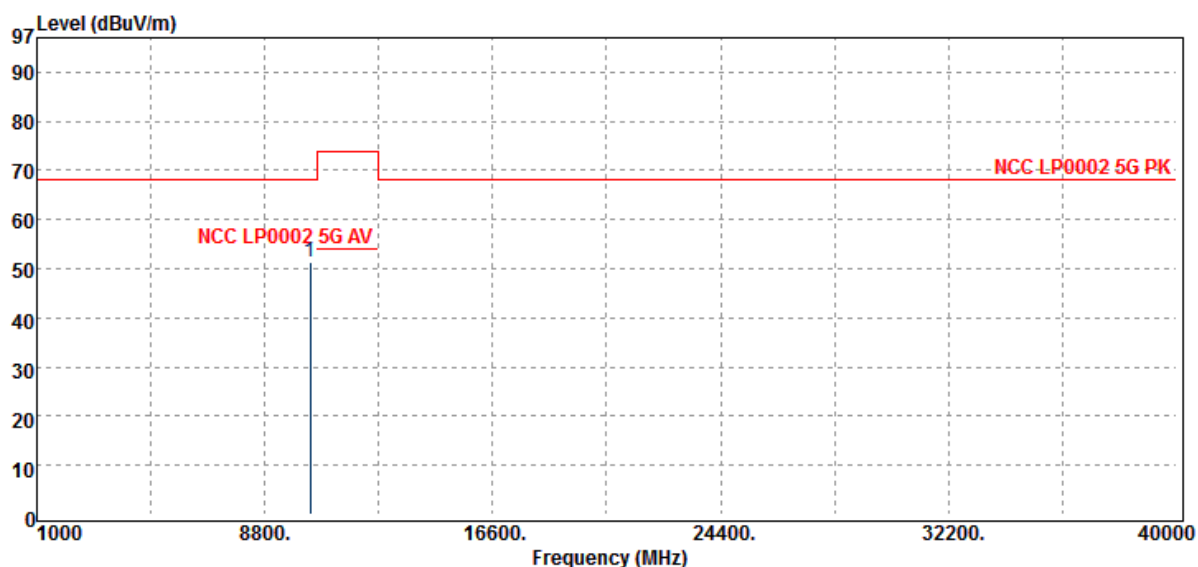
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Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	33.21	18.29	51.50	68.30	-16.80

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t (886-2) 2299-3279

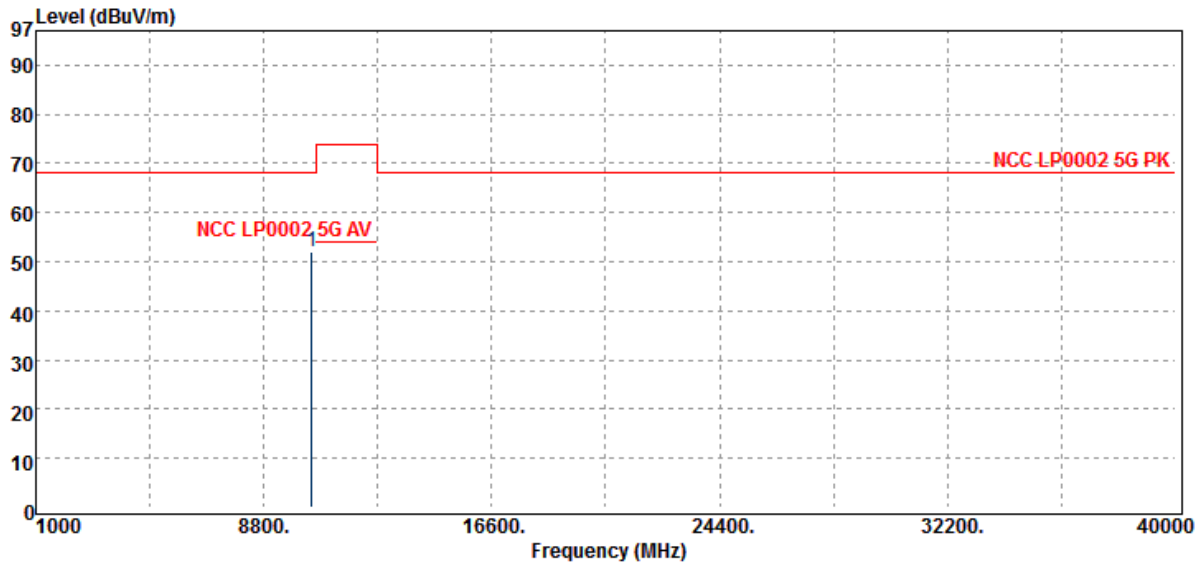
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10440.00	H	Peak	33.40	18.69	52.09	68.30	-16.21

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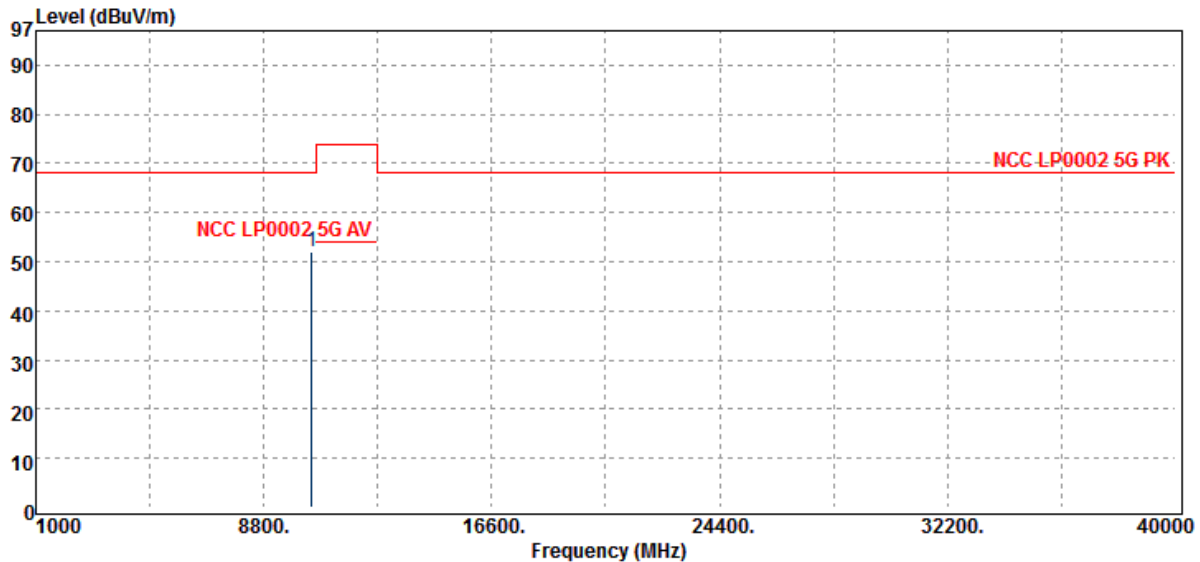
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Member of SGS Group

Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	33.18	18.69	51.87	68.30	-16.43

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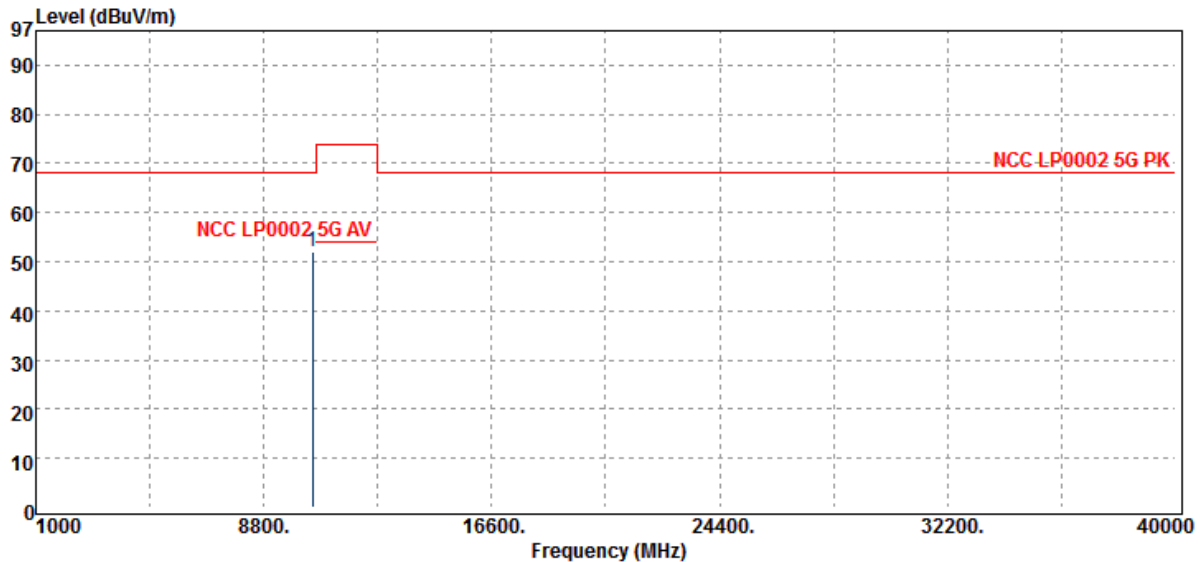
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Member of SGS Group

Operation Band :802.11aB1
Fundamental Frequency :5240 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	33.76	18.30	52.06	68.30	-16.24

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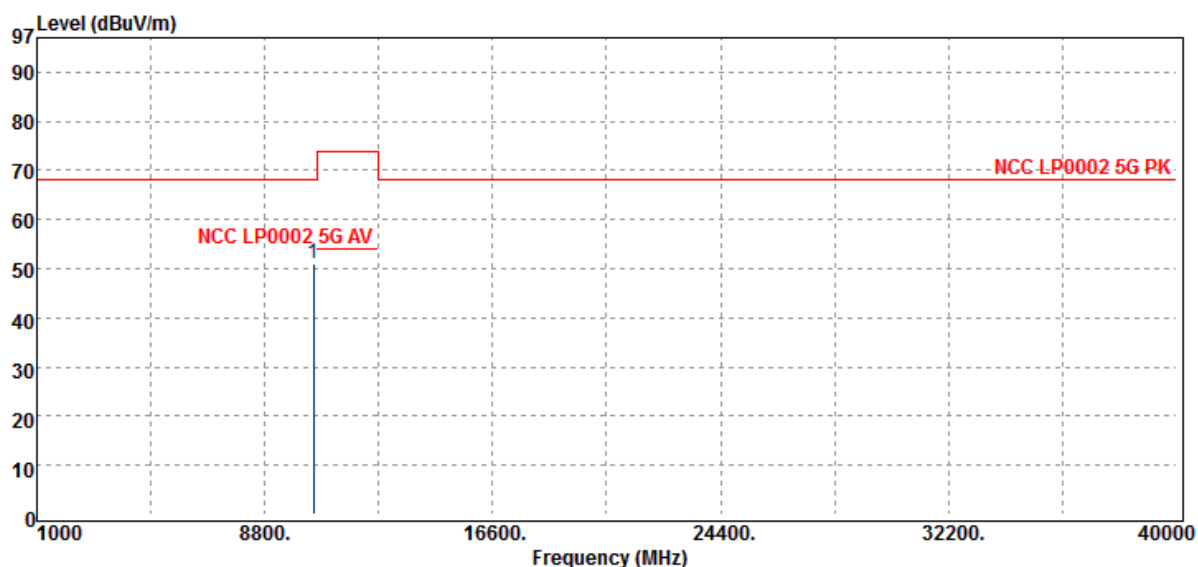
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Operation Band	:802.11aB1	Test Date	:2017-07-31
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	32.78	18.30	51.08	68.30	-17.22

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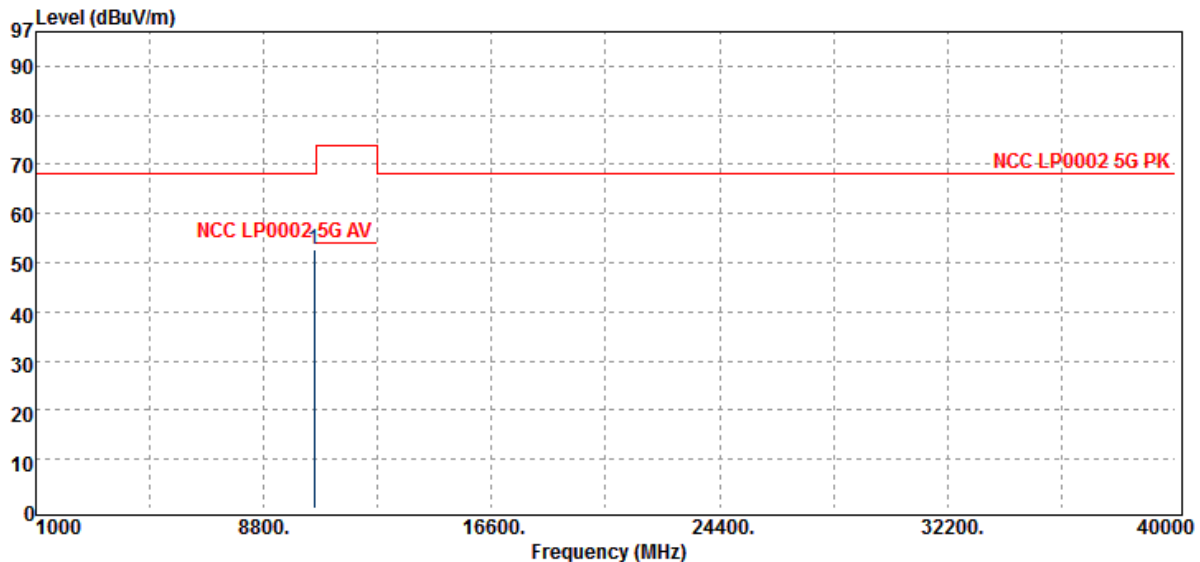
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Member of SGS Group

802.11a / 6Mbps 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

Operation Band :802.11aB2
 Fundamental Frequency :5260 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	33.43	19.38	52.81	68.30	-15.49

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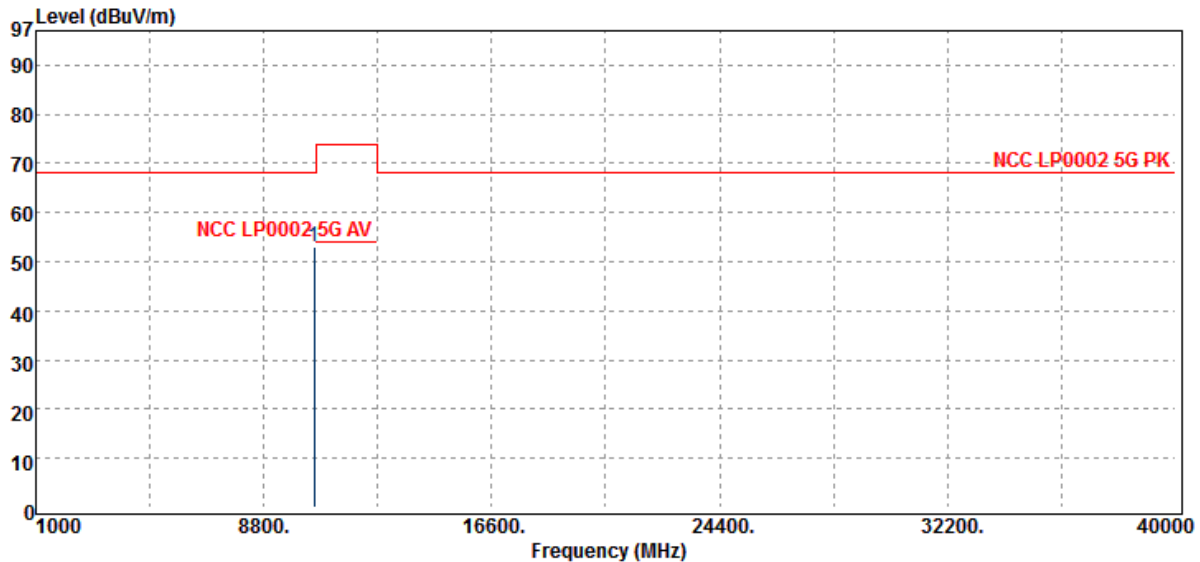
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www.tw.sgs.com

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Operation Band :802.11aB2
Fundamental Frequency :5260 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	33.58	19.38	52.96	68.30	-15.34

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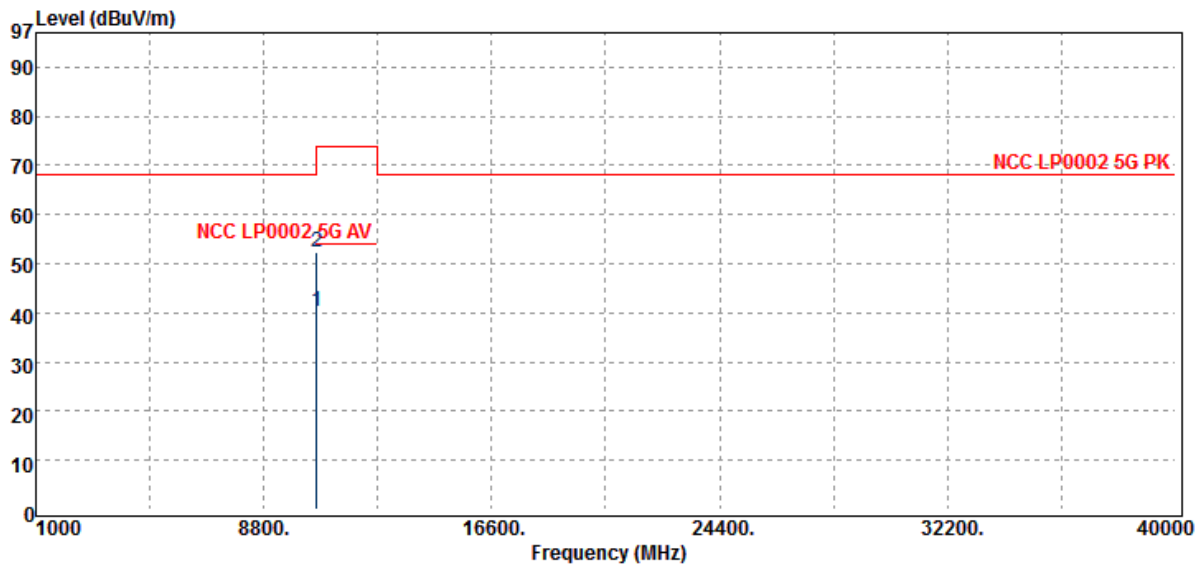
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Member of SGS Group

Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10600.00	H	Average	21.22	18.91	40.13	54.00	-13.87
10600.00	H	Peak	33.41	18.91	52.32	74.00	-21.68

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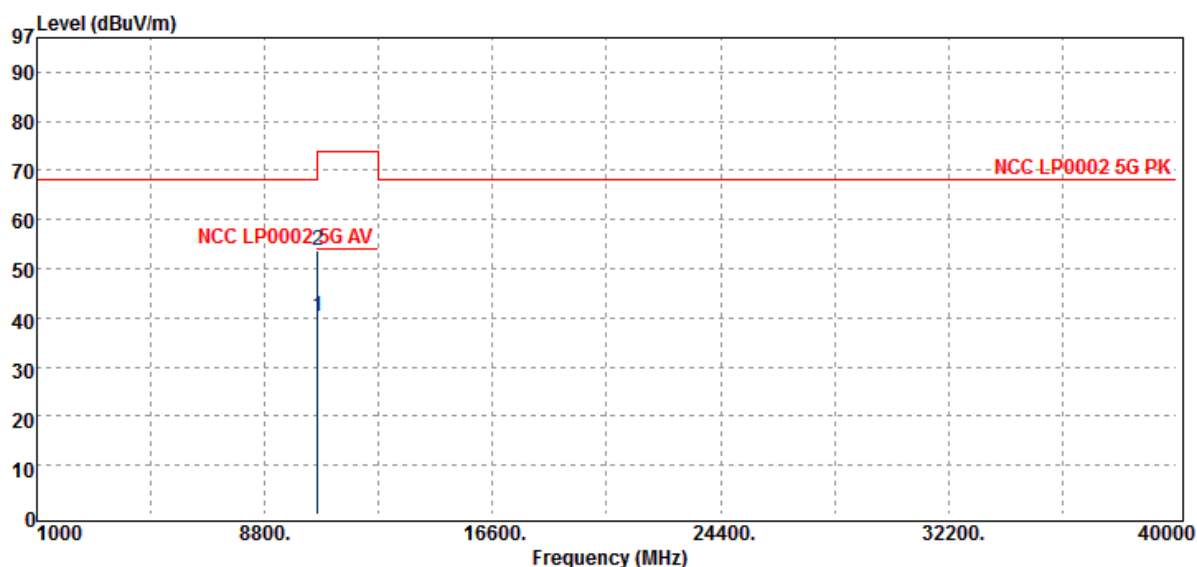
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Member of SGS Group

Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10600.00	H	Average	21.44	18.91	40.35	54.00	-13.65
10600.00	H	Peak	34.87	18.91	53.78	74.00	-20.22

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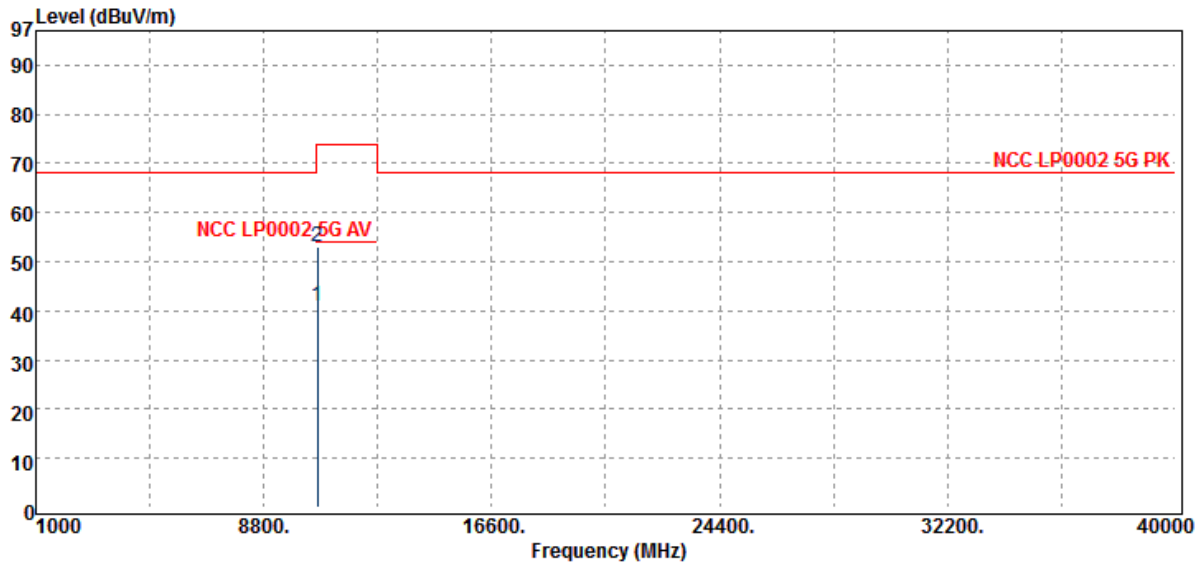
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Operation Band :802.11aB2
Fundamental Frequency :5320 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10640.00	H	Average	21.80	19.19	40.99	54.00	-13.01
10640.00	H	Peak	33.78	19.19	52.97	74.00	-21.03

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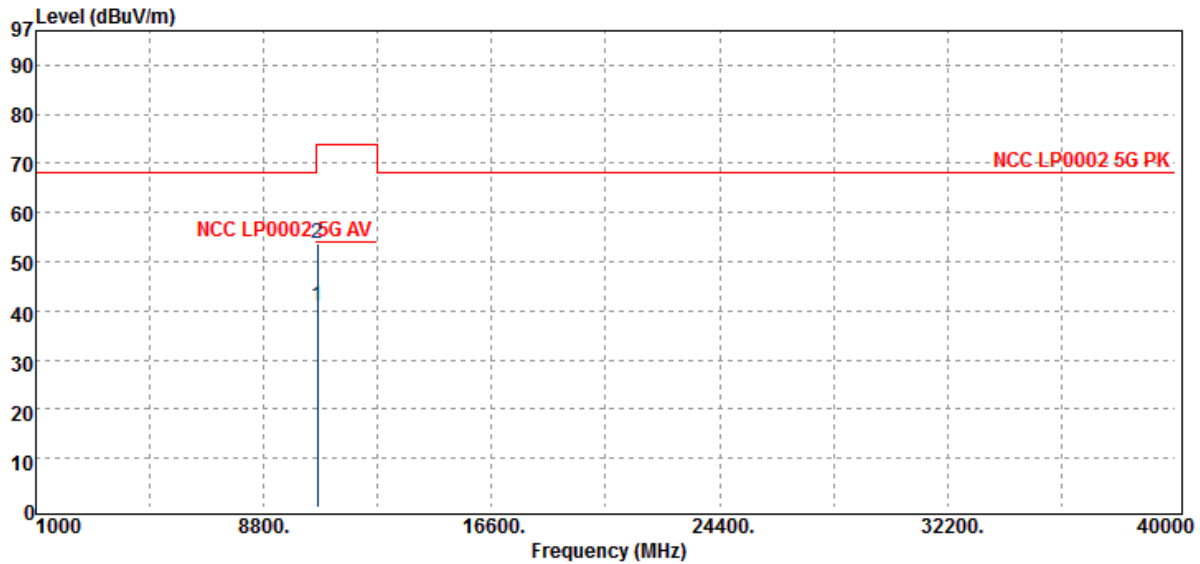
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Operation Band	:802.11aB2	Test Date	:2017-07-31
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10640.00	H	Average	21.92	19.19	41.11	54.00	-12.89
10640.00	H	Peak	34.36	19.19	53.55	74.00	-20.45

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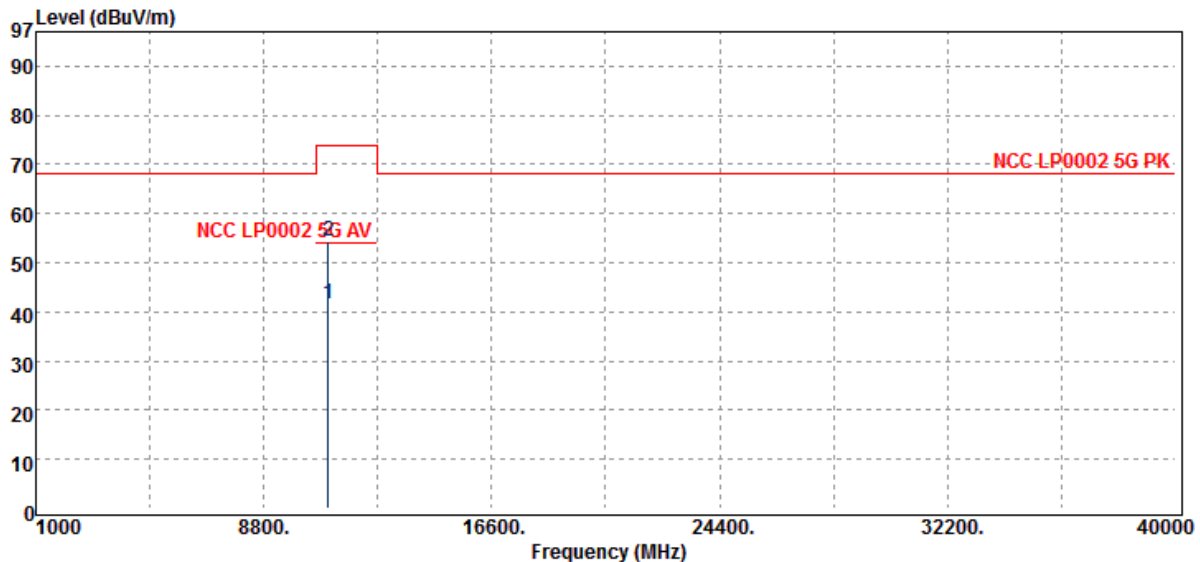
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802.11a / 6Mbps 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Average	21.60	20.16	41.76	54.00	-12.24
11000.00	H	Peak	34.10	20.16	54.26	74.00	-19.74

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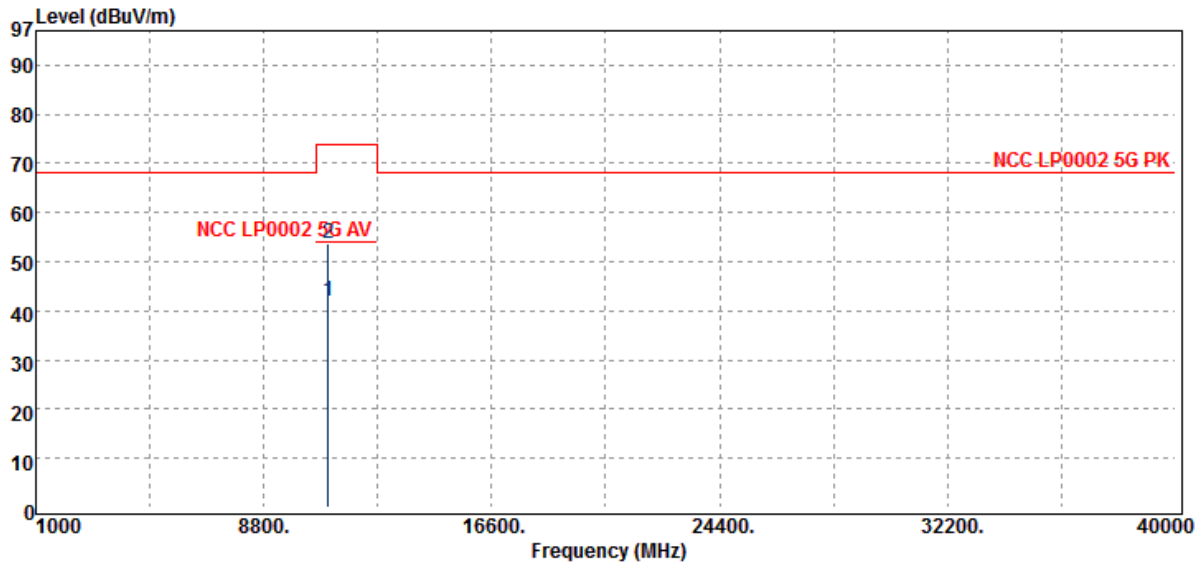
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5500 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Average	21.73	20.16	41.89	54.00	-12.11
11000.00	H	Peak	33.43	20.16	53.59	74.00	-20.41

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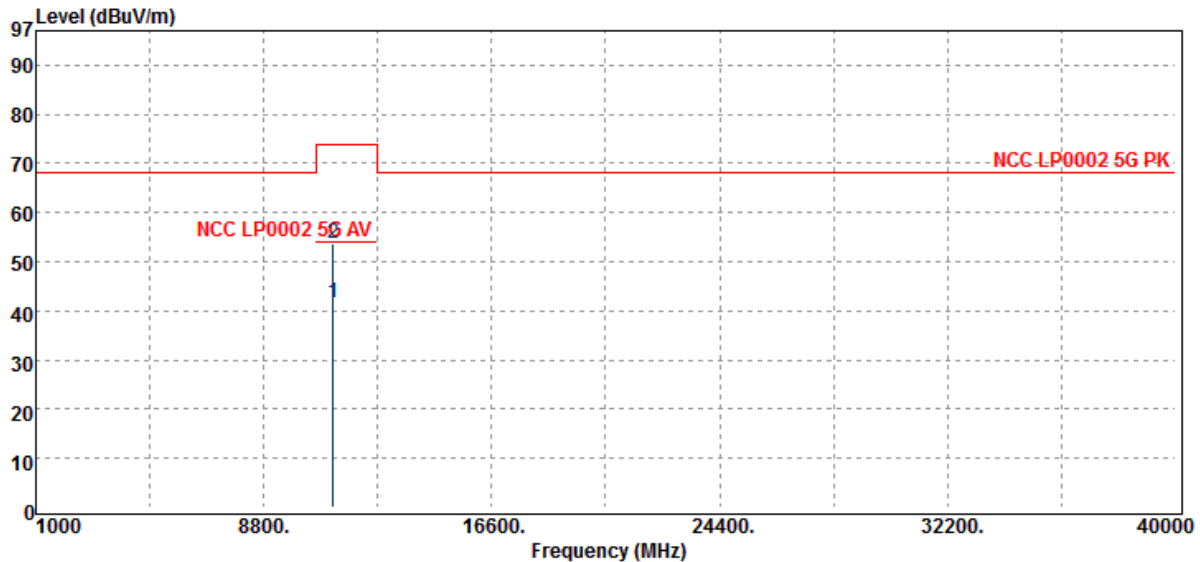
f (886-2) 2298-0488

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Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Average	21.22	20.44	41.66	54.00	-12.34
11160.00	H	Peak	33.30	20.44	53.74	74.00	-20.26

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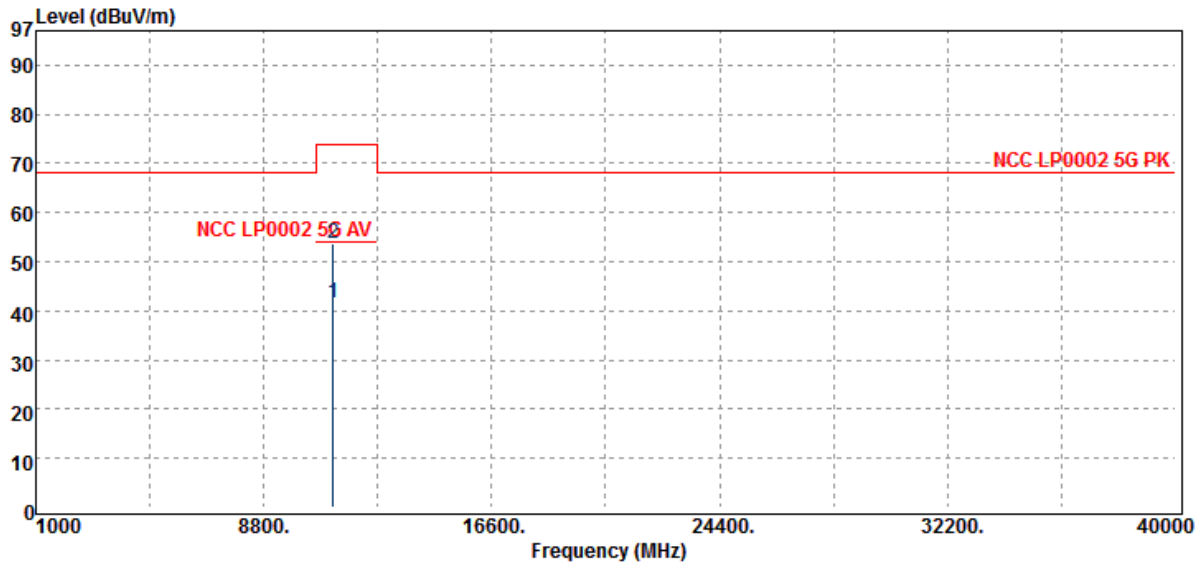
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Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Average	21.10	20.44	41.54	54.00	-12.46
11160.00	H	Peak	33.20	20.44	53.64	74.00	-20.36

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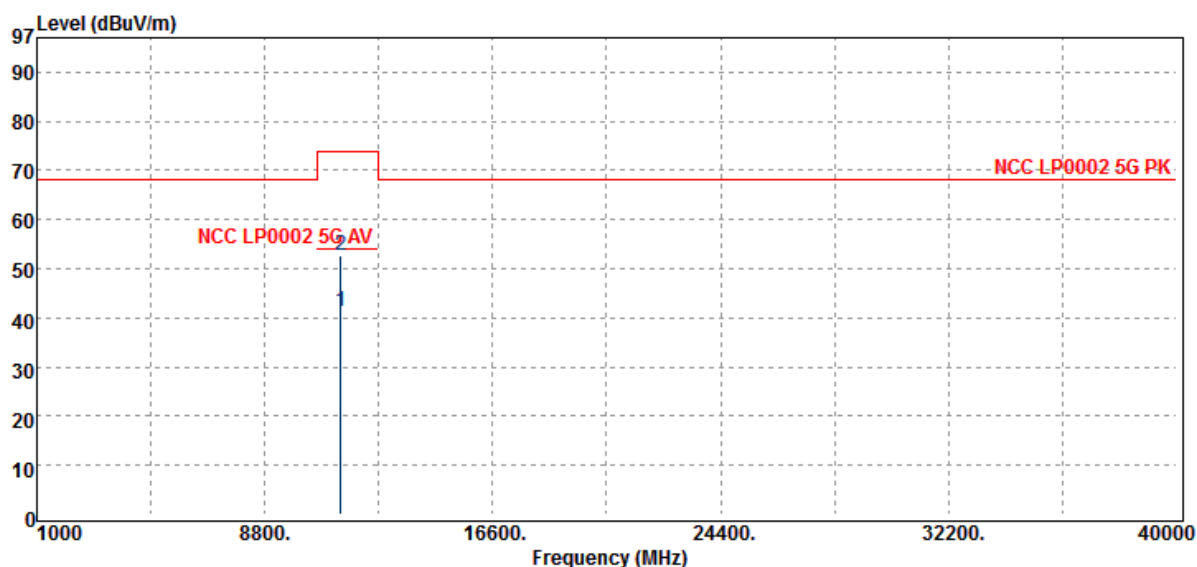
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Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11400.00	H	Average	20.68	20.56	41.24	54.00	-12.76
11400.00	H	Peak	32.01	20.56	52.57	74.00	-21.43

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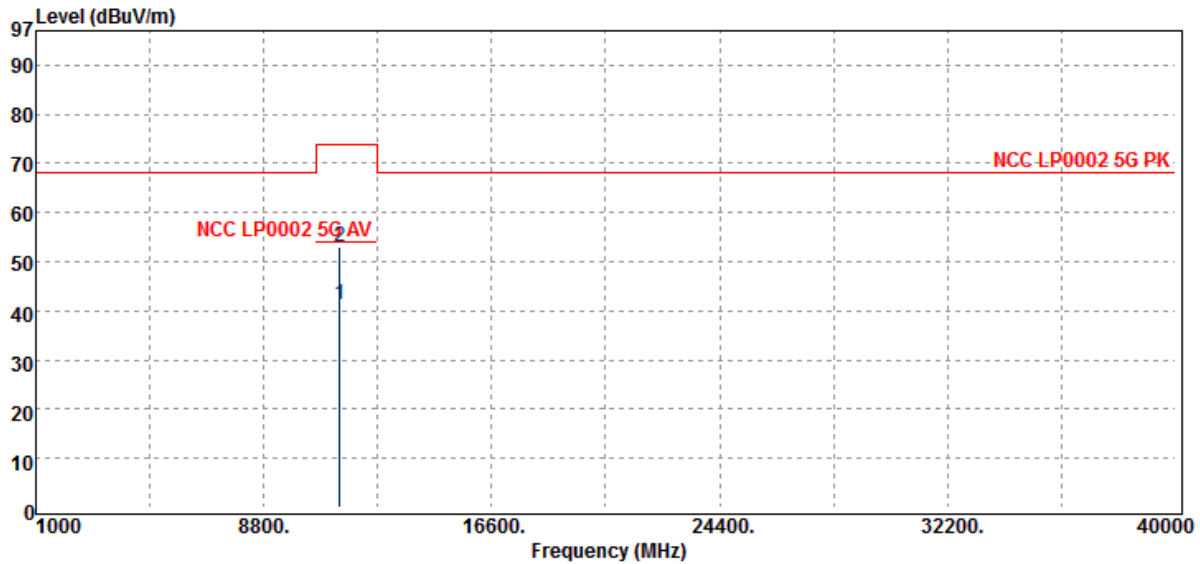
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Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11400.00	H	Average	20.71	20.56	41.27	54.00	-12.73
11400.00	H	Peak	32.48	20.56	53.04	74.00	-20.96

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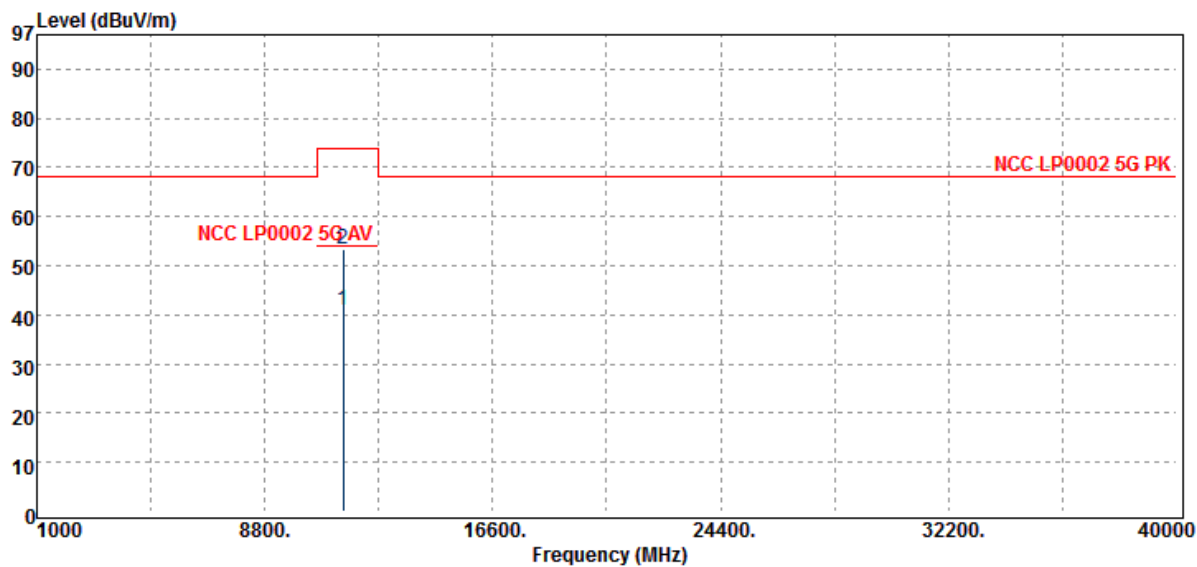
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802.11a / 6Mbps 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

Operation Band	:802.11aB4	Test Date	:2017-07-31
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11490.00	H	Average	20.67	20.42	41.09	54.00	-12.91
11490.00	H	Peak	33.08	20.42	53.50	74.00	-20.50

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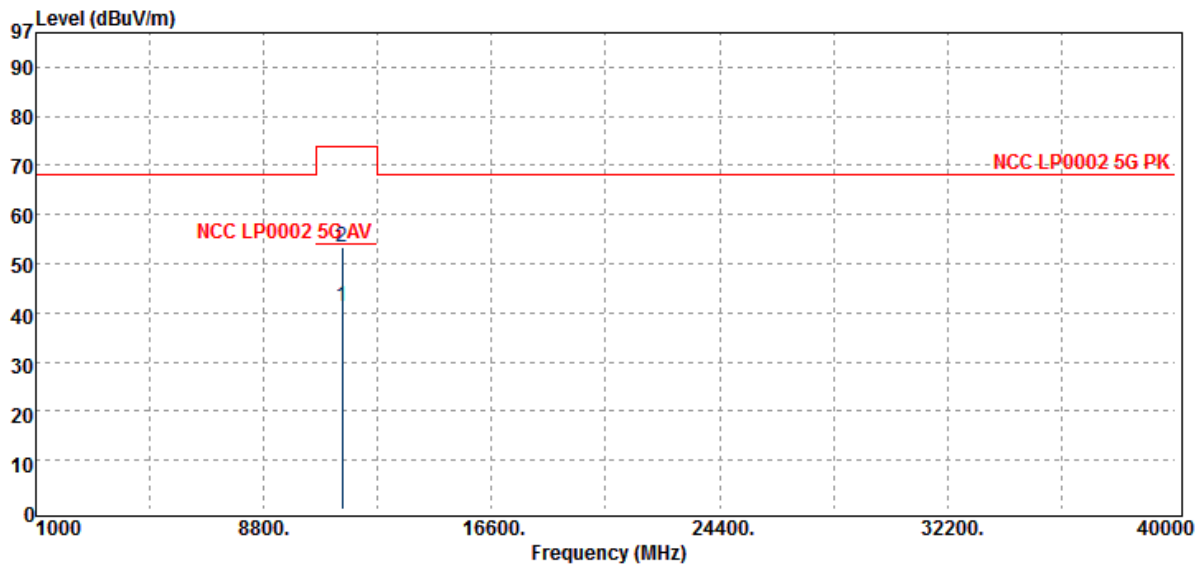
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Operation Band :802.11aB4
Fundamental Frequency :5745 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11490.00	H	Average	20.71	20.42	41.13	54.00	-12.87
11490.00	H	Peak	32.79	20.42	53.21	74.00	-20.79

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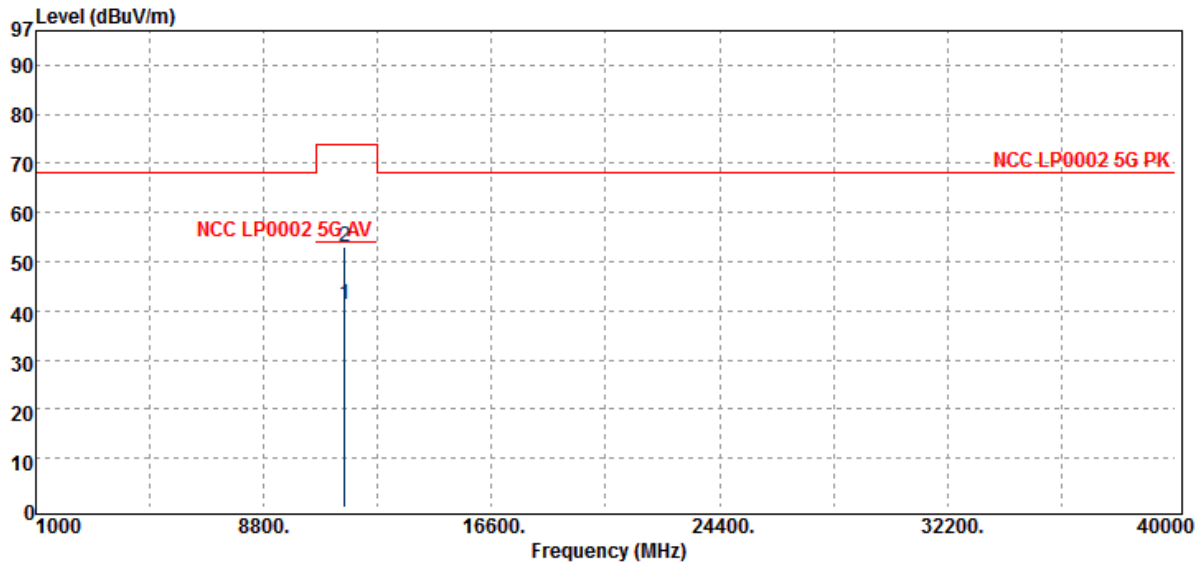
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Member of SGS Group

Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11570.00	H	Average	20.75	20.58	41.33	54.00	-12.67
11570.00	H	Peak	32.40	20.58	52.98	74.00	-21.02

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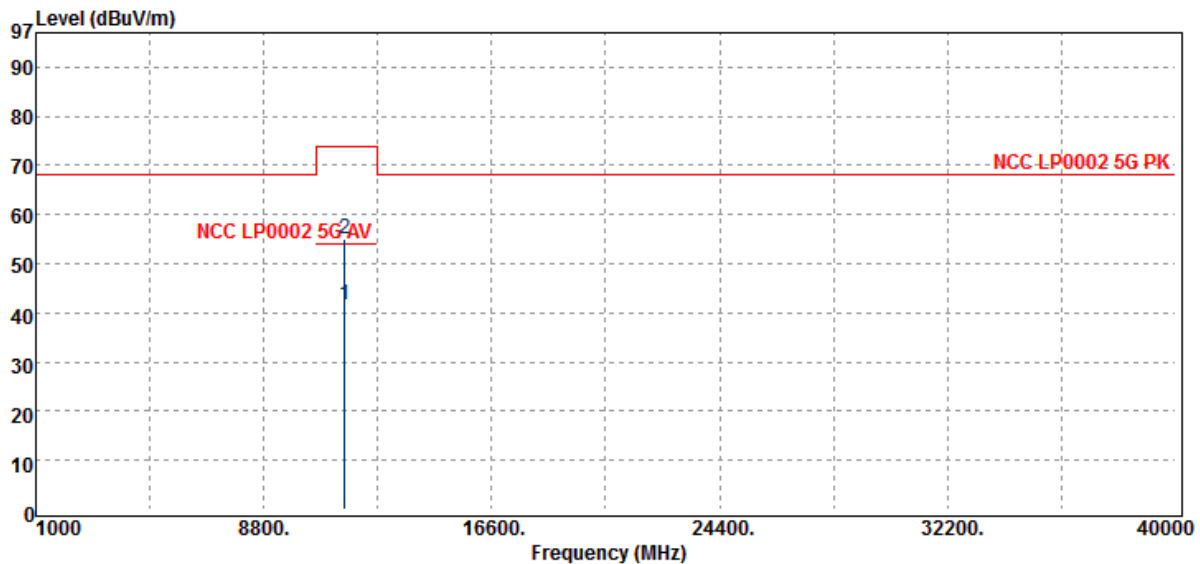
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11570.00	H	Average	20.89	20.58	41.47	54.00	-12.53
11570.00	H	Peak	34.59	20.58	55.17	74.00	-18.83

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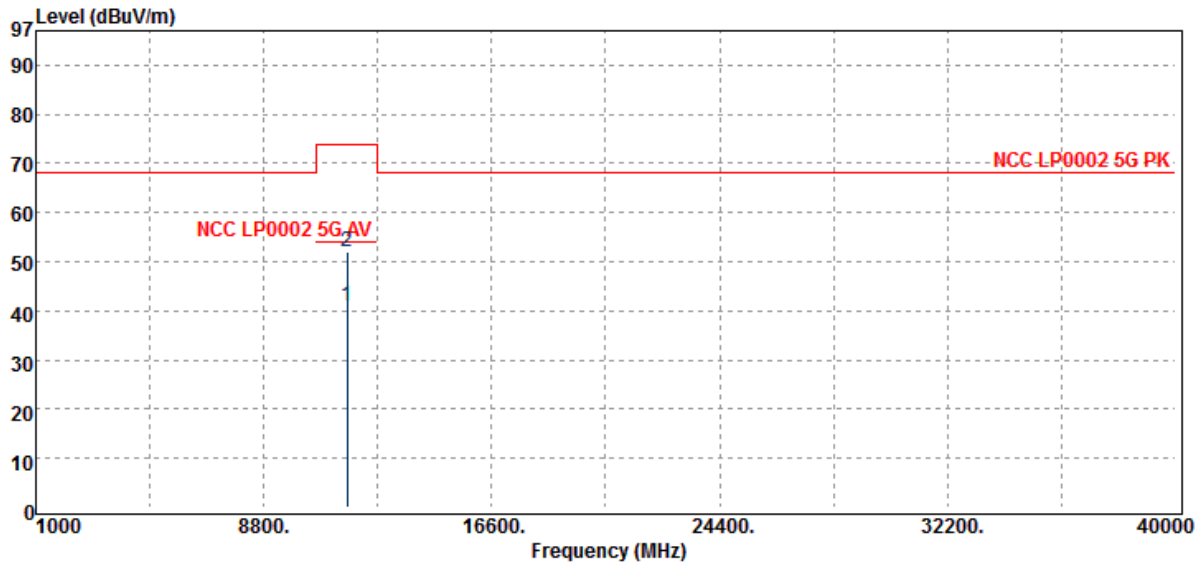
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Operation Band :802.11aB4
Fundamental Frequency :5825 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11650.00	H	Average	20.55	20.43	40.98	54.00	-13.02
11650.00	H	Peak	31.73	20.43	52.16	74.00	-21.84

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t (886-2) 2299-3279

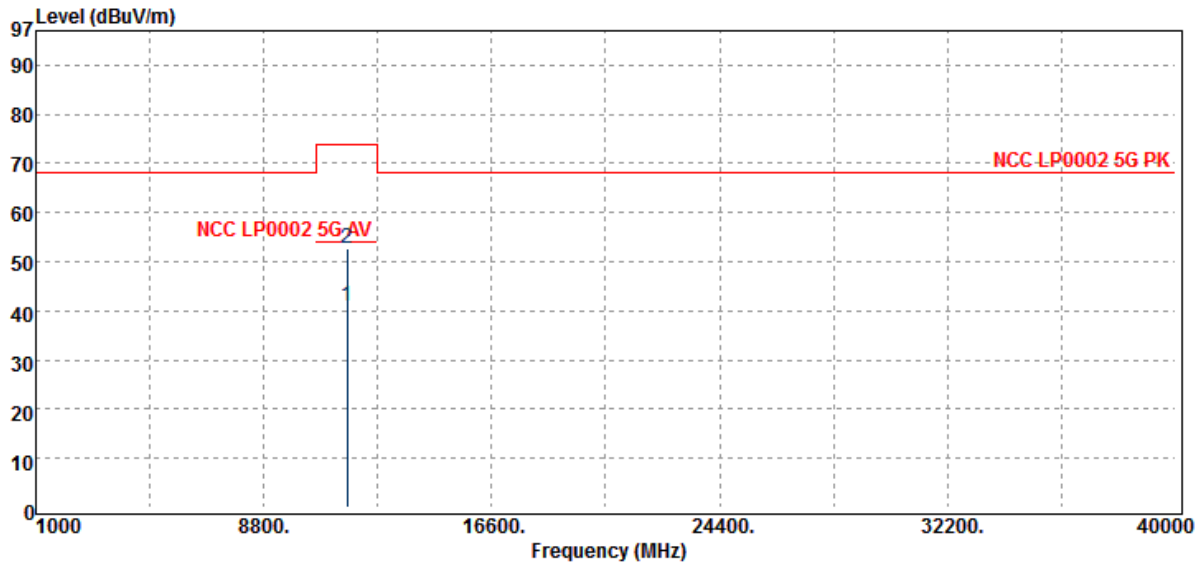
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Operation Band :802.11aB4
Fundamental Frequency :5825 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11650.00	H	Average	20.62	20.43	41.05	54.00	-12.95
11650.00	H	Peak	32.41	20.43	52.84	74.00	-21.16

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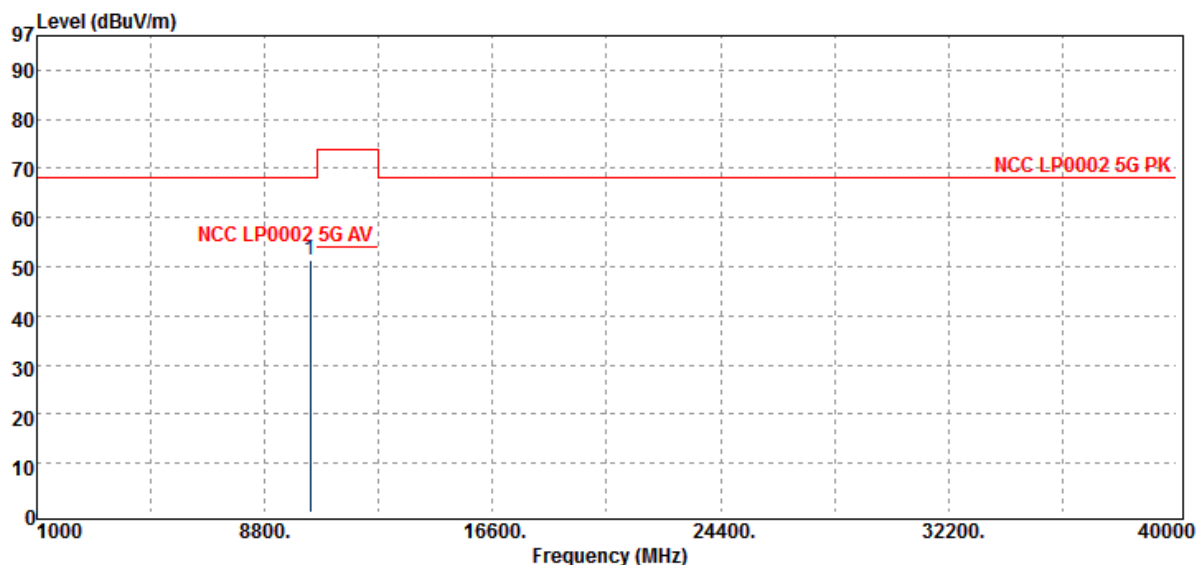
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802.11n HT20 / MCS8 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

Operation Band	:802.11n20B1	Test Date	:2017-07-31
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	33.05	18.29	51.34	68.30	-16.96

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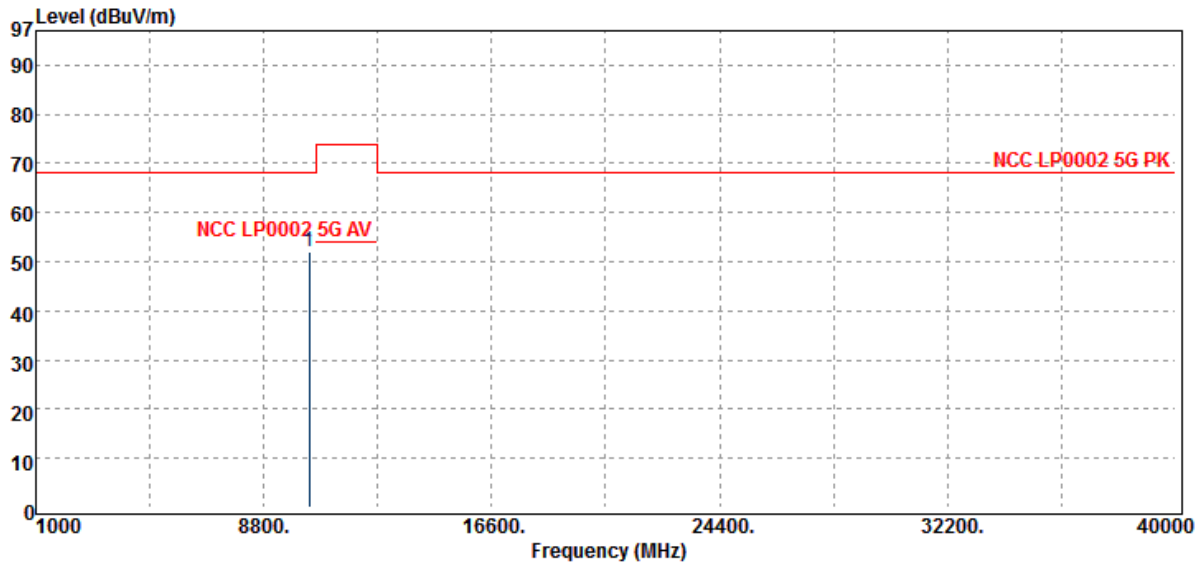
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Operation Band	:802.11n20B1	Test Date	:2017-07-31
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	33.61	18.29	51.90	68.30	-16.40

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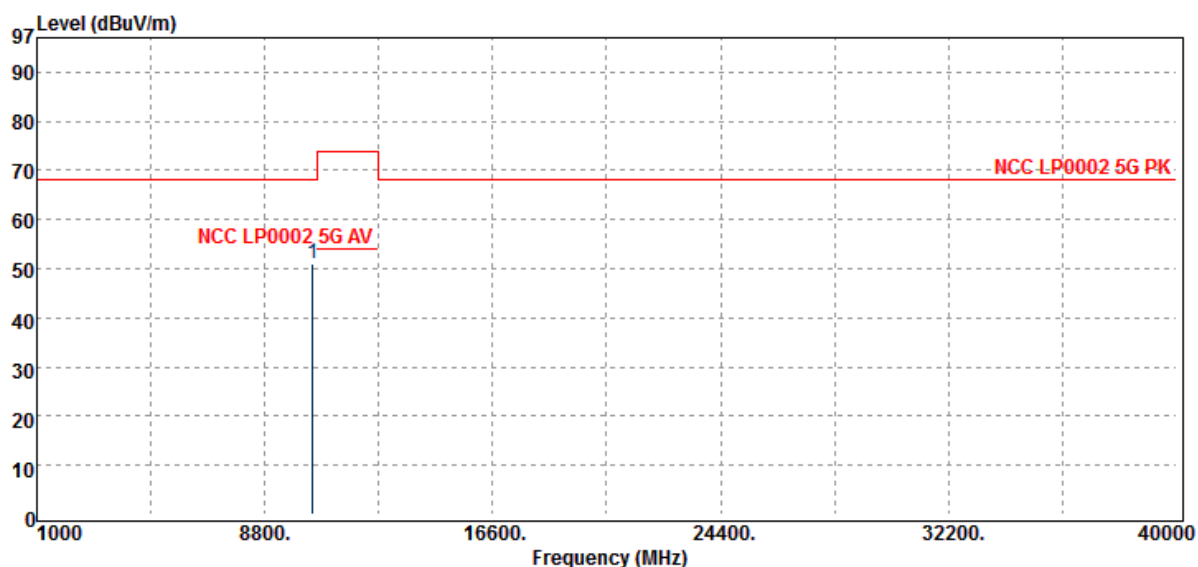
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Operation Band	:802.11n20B1	Test Date	:2017-07-31
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	32.32	18.69	51.01	68.30	-17.29

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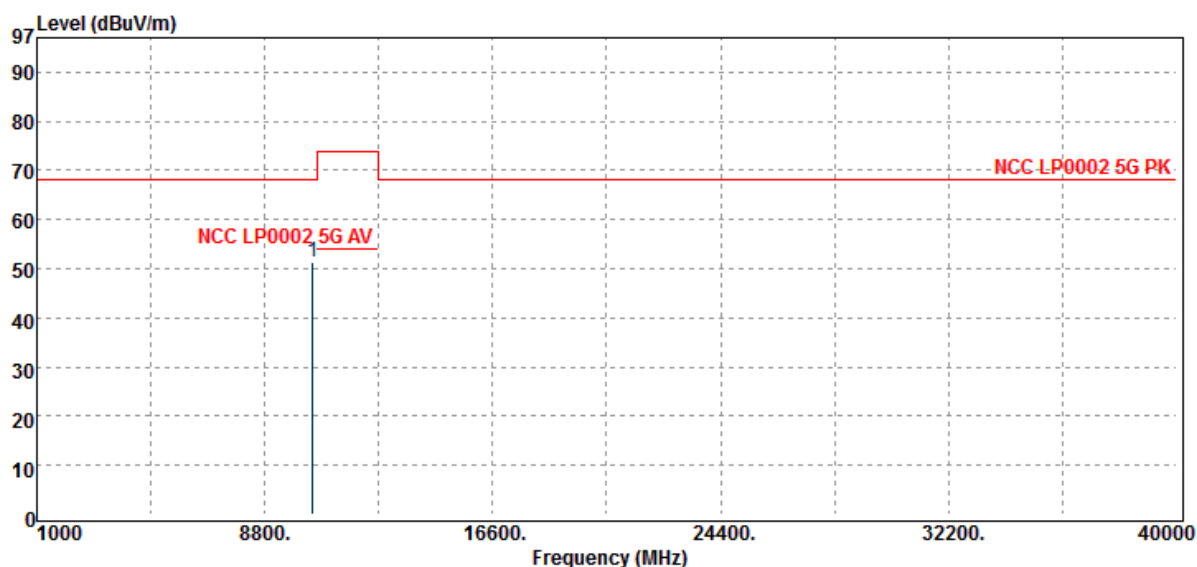
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Operation Band :802.11n20B1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	32.80	18.69	51.49	68.30	-16.81

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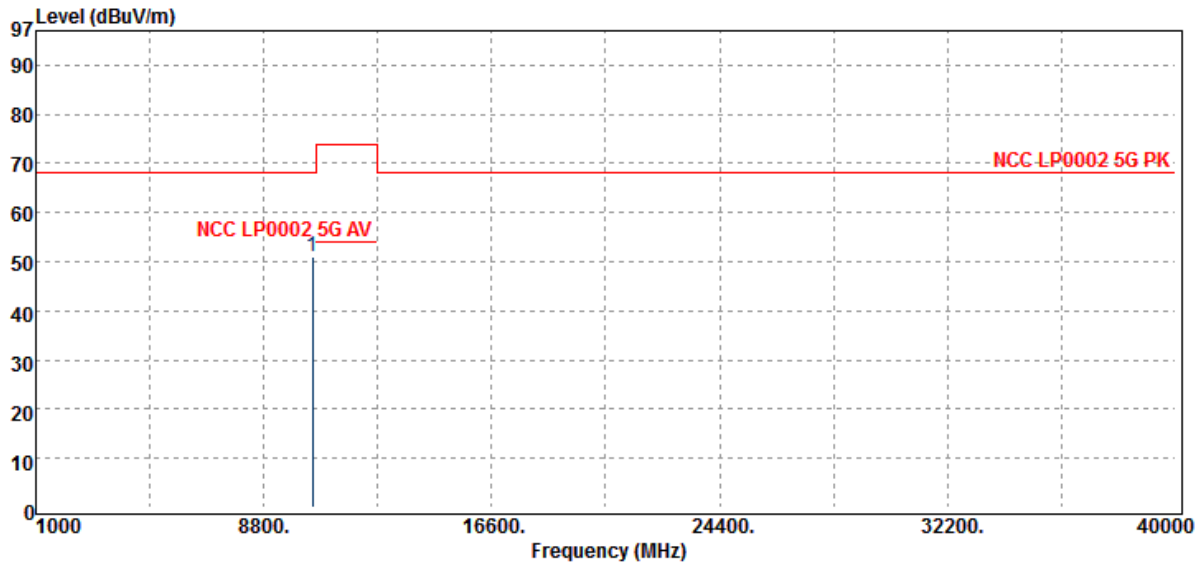
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Operation Band	:802.11n20B1	Test Date	:2017-07-31
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	32.77	18.30	51.07	68.30	-17.23

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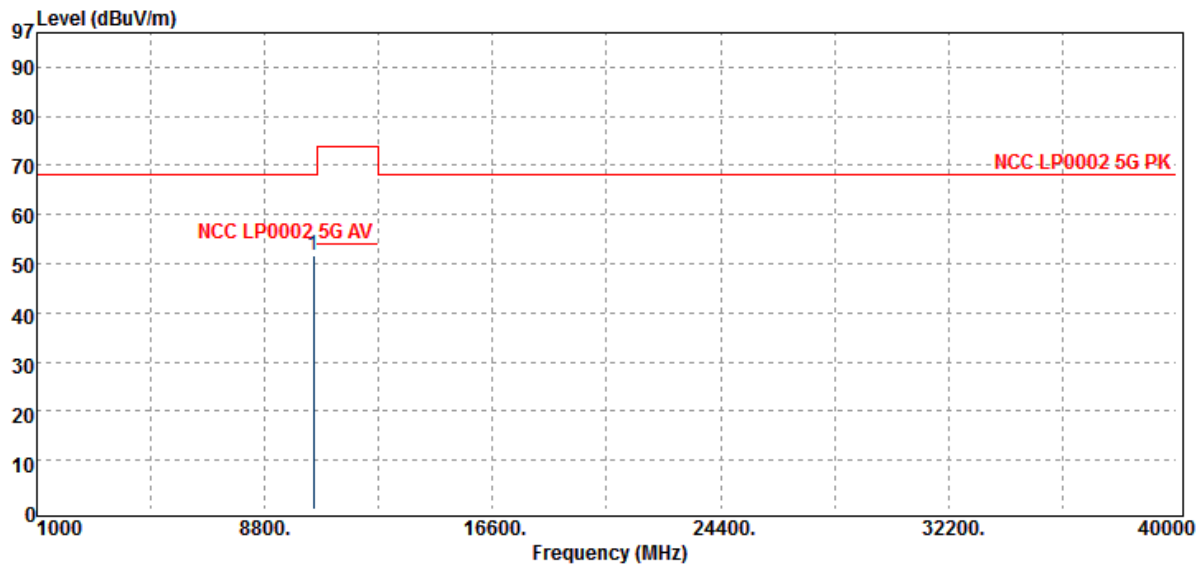
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Operation Band	:802.11n20B1	Test Date	:2017-07-31
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	33.30	18.30	51.60	68.30	-16.70

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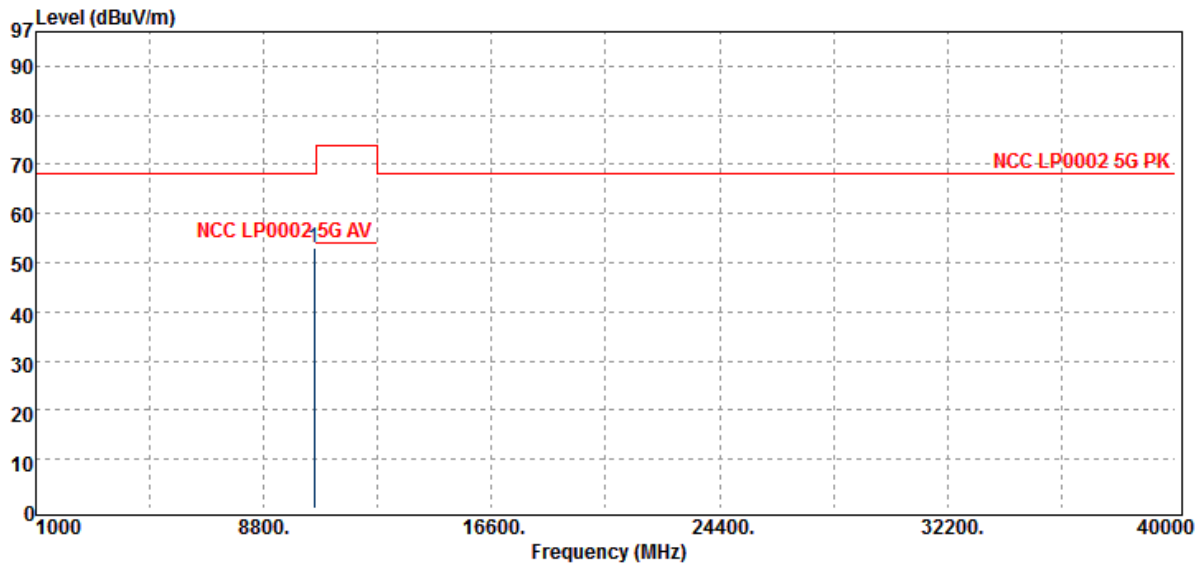
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802.11n HT20 / MCS8 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

Operation Band	:802.11n20B2	Test Date	:2017-07-31
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10520.00	H	Peak	33.50	19.38	52.88	68.30	-15.42

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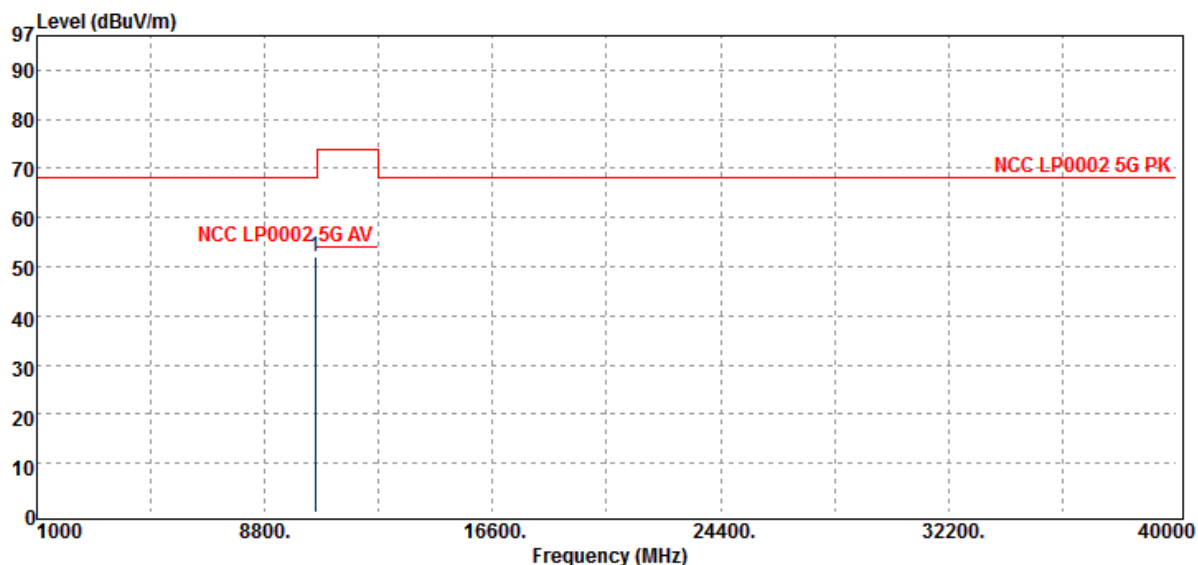
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Operation Band	:802.11n20B2	Test Date	:2017-07-31
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	32.70	19.38	52.08	68.30	-16.22

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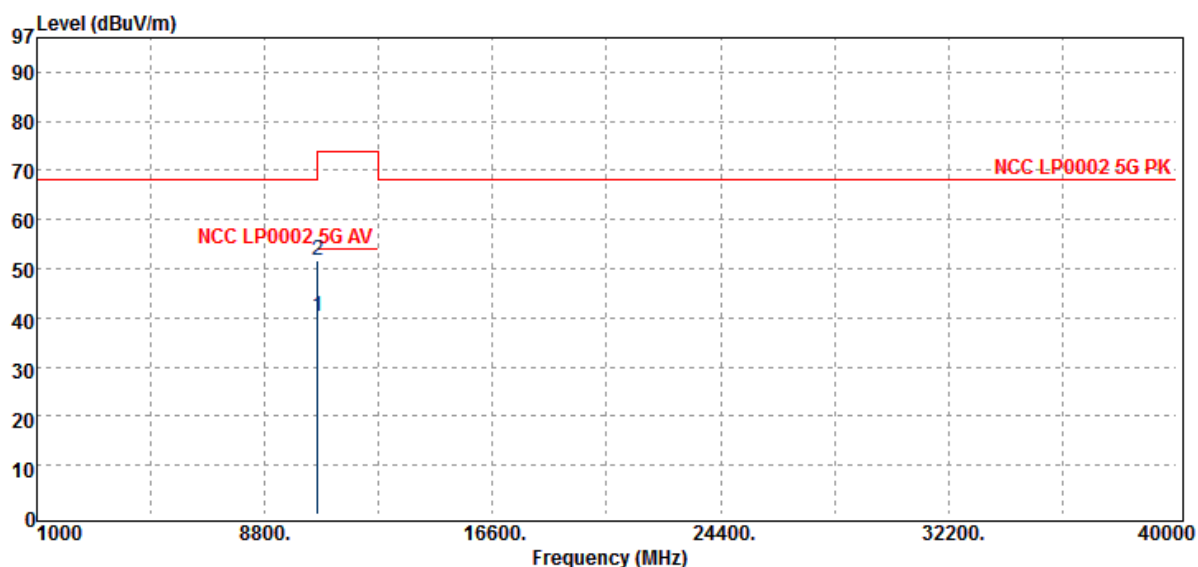
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Operation Band :802.11n20B2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10600.00	H	Average	21.21	18.91	40.12	54.00	-13.88
10600.00	H	Peak	32.88	18.91	51.79	74.00	-22.21

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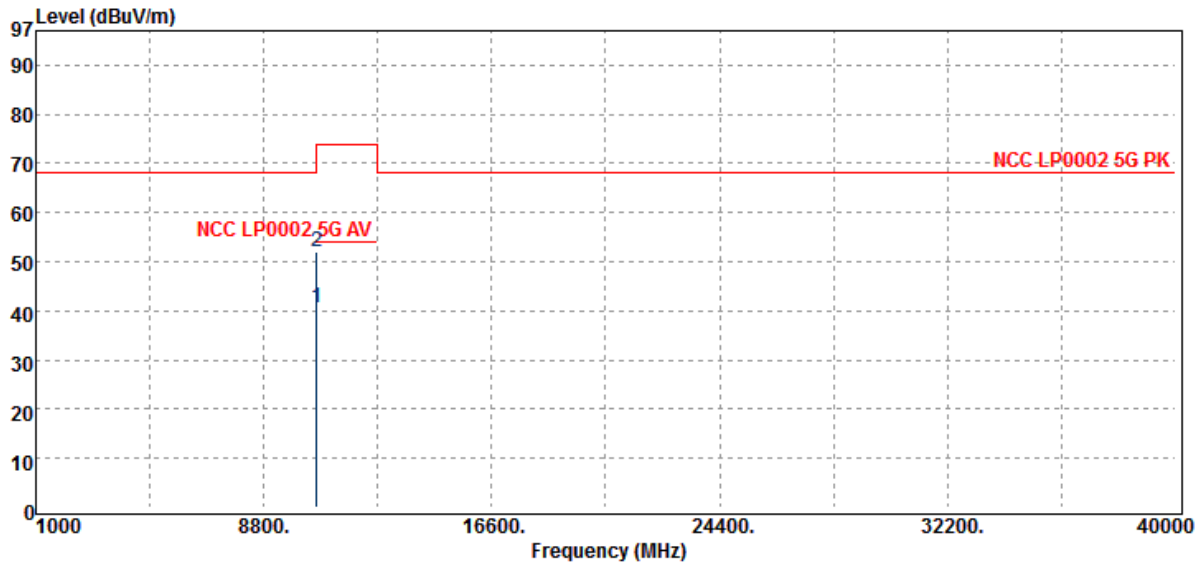
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Operation Band :802.11n20B2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10600.00	H	Average	21.58	18.91	40.49	54.00	-13.51
10600.00	H	Peak	33.10	18.91	52.01	74.00	-21.99

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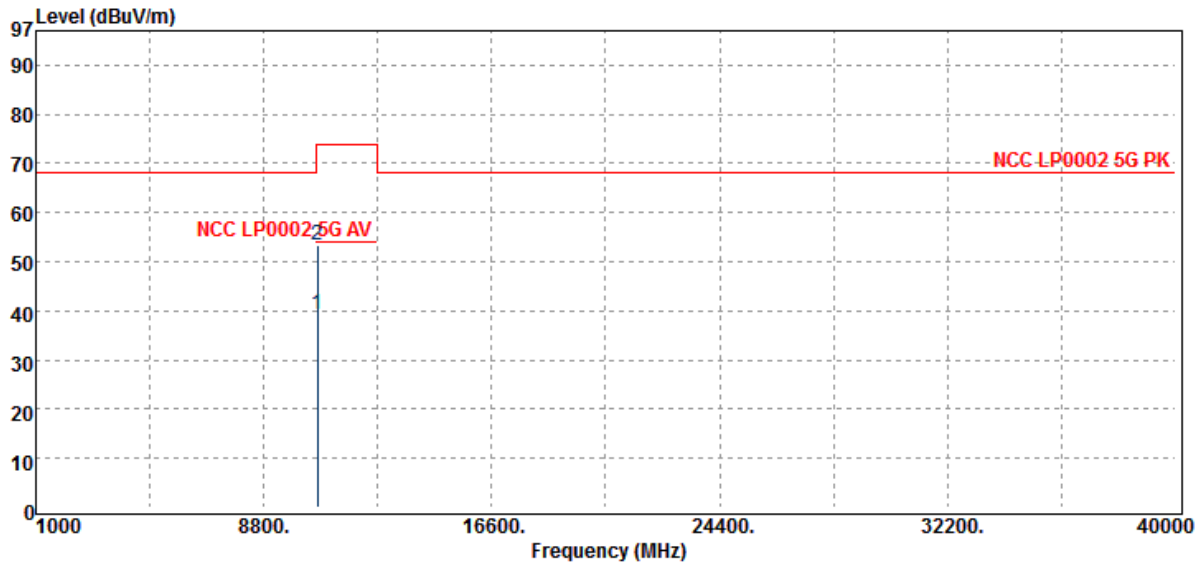
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Operation Band :802.11n20B2
Fundamental Frequency :5320 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10640.00	H	Average	20.00	19.19	39.19	54.00	-14.81
10640.00	H	Peak	34.27	19.19	53.46	74.00	-20.54

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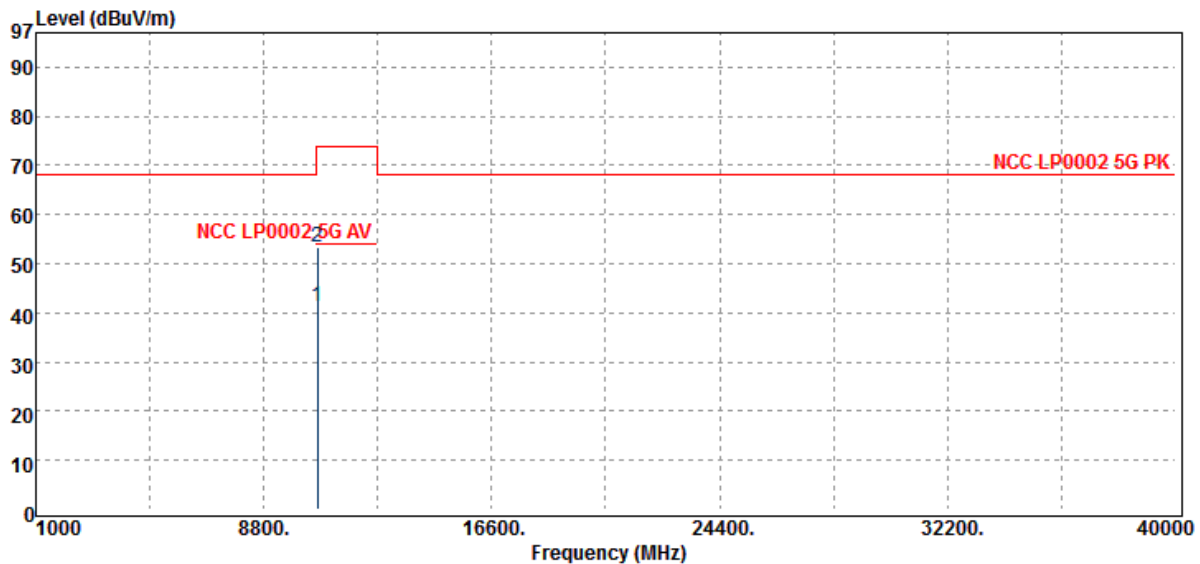
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B2
Fundamental Frequency :5320 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10640.00	H	Average	22.07	19.19	41.26	54.00	-12.74
10640.00	H	Peak	34.17	19.19	53.36	74.00	-20.64

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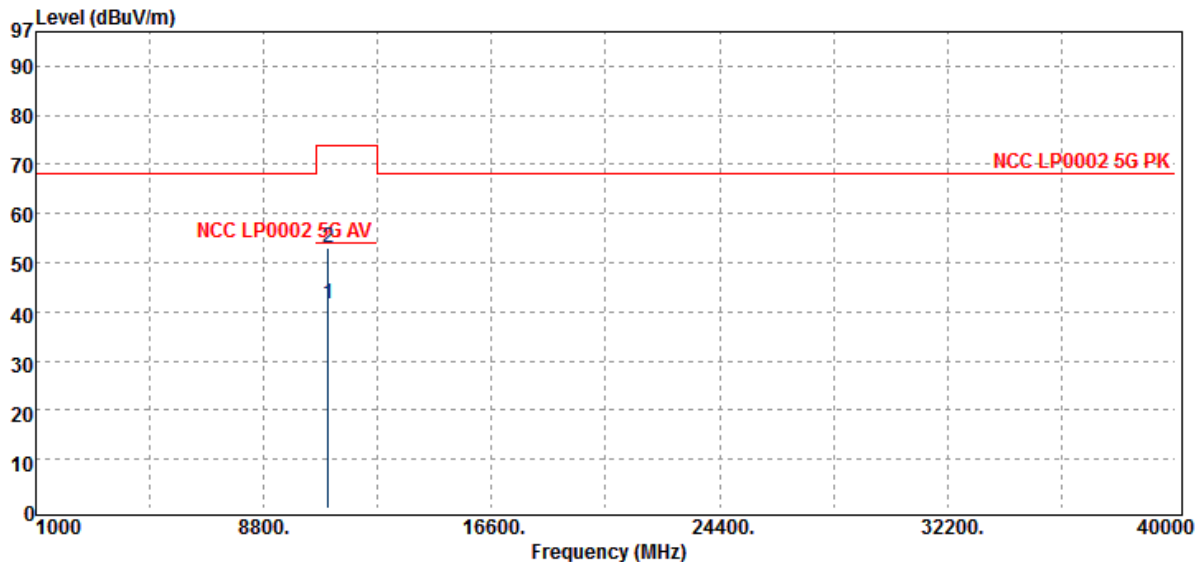
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802.11n HT20 / MCS8 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

Operation Band	:802.11n20B3	Test Date	:2017-07-31
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11000.00	H	Average	21.61	20.16	41.77	54.00	-12.23
11000.00	H	Peak	32.98	20.16	53.14	74.00	-20.86

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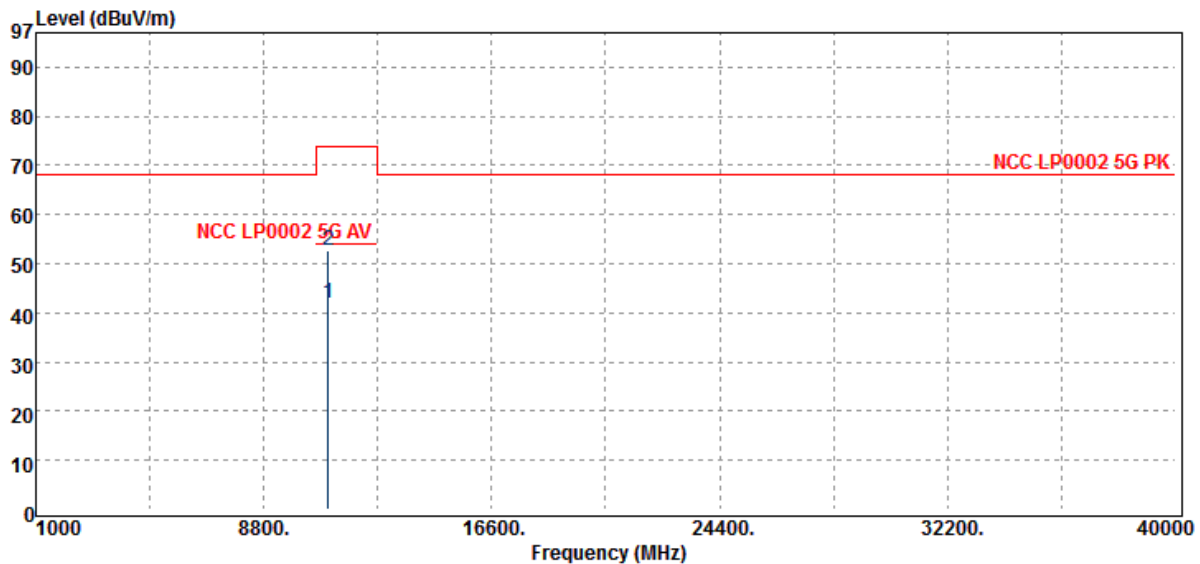
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Operation Band	:802.11n20B3	Test Date	:2017-07-31
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Average	21.72	20.16	41.88	54.00	-12.12
11000.00	H	Peak	32.56	20.16	52.72	74.00	-21.28

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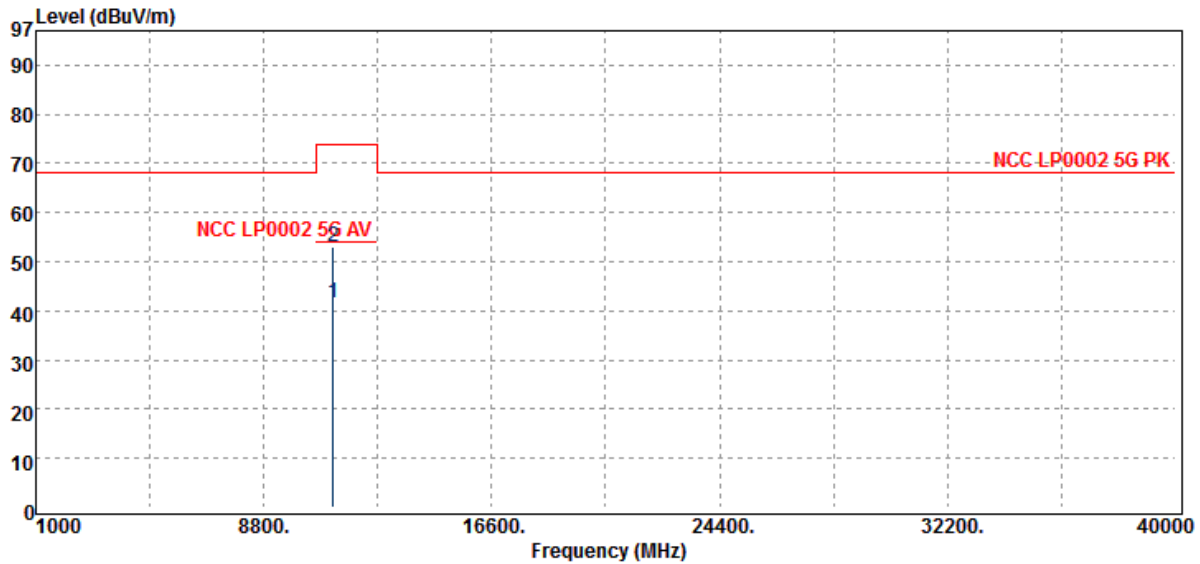
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Member of SGS Group

Operation Band :802.11n20B3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Average	21.10	20.44	41.54	54.00	-12.46
11160.00	H	Peak	32.74	20.44	53.18	74.00	-20.82

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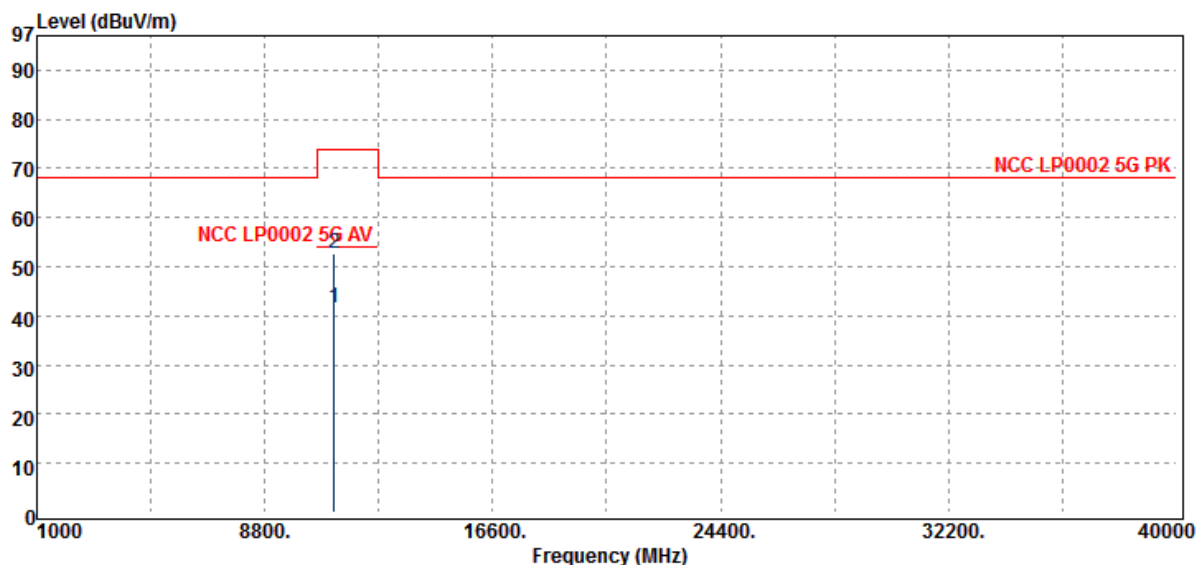
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Operation Band	:802.11n20B3	Test Date	:2017-07-31
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Average	21.28	20.44	41.72	54.00	-12.28
11160.00	H	Peak	32.12	20.44	52.56	74.00	-21.44

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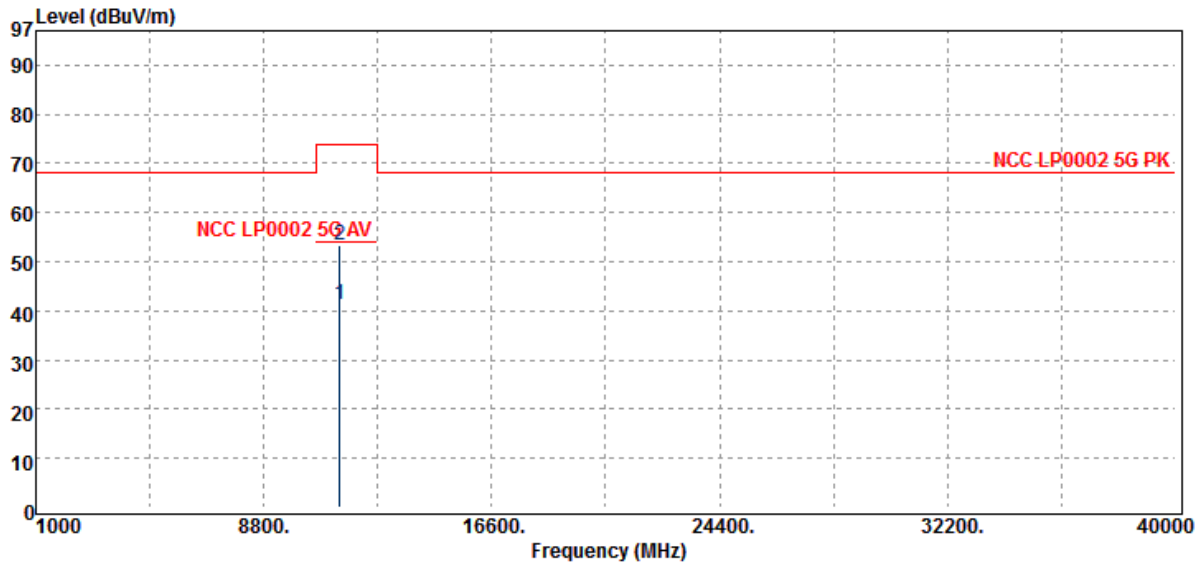
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Operation Band :802.11n20B3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11400.00	H	Average	20.77	20.56	41.33	54.00	-12.67
11400.00	H	Peak	32.81	20.56	53.37	74.00	-20.63

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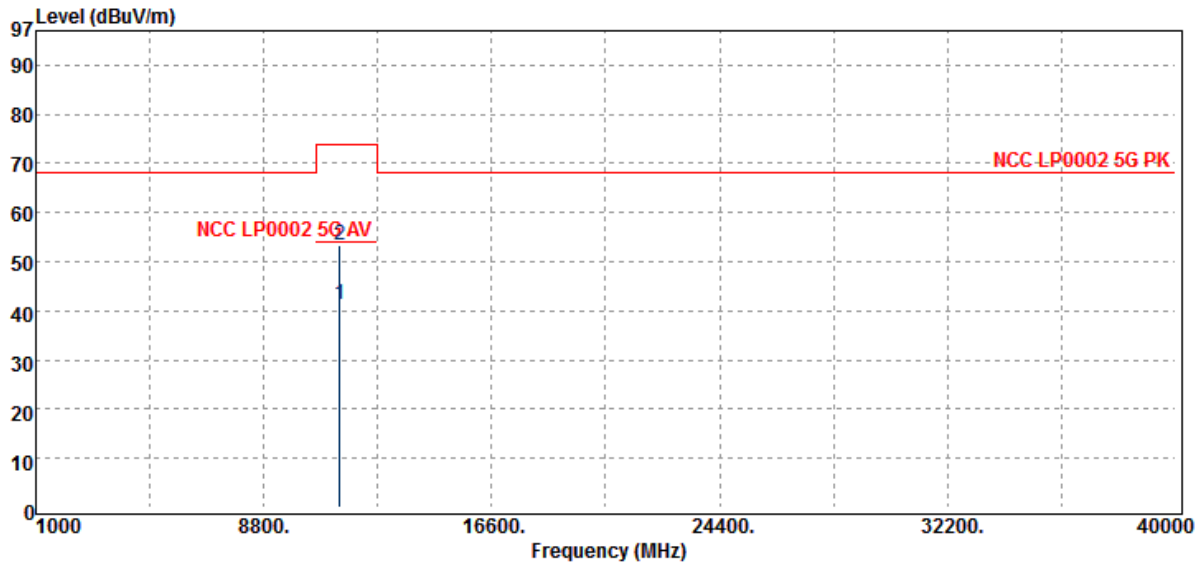
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Operation Band :802.11n20B3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11400.00	H	Average	20.86	20.56	41.42	54.00	-12.58
11400.00	H	Peak	32.66	20.56	53.22	74.00	-20.78

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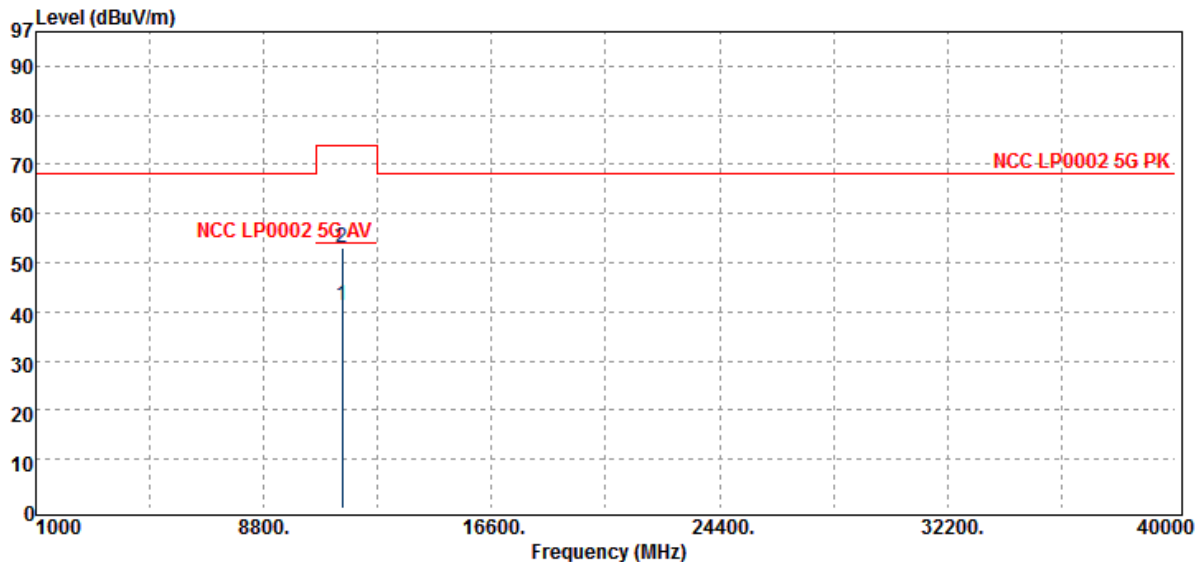
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80.11n HT20 / MCS8 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11490.00	H	Average	20.78	20.42	41.20	54.00	-12.80
11490.00	H	Peak	32.71	20.42	53.13	74.00	-20.87

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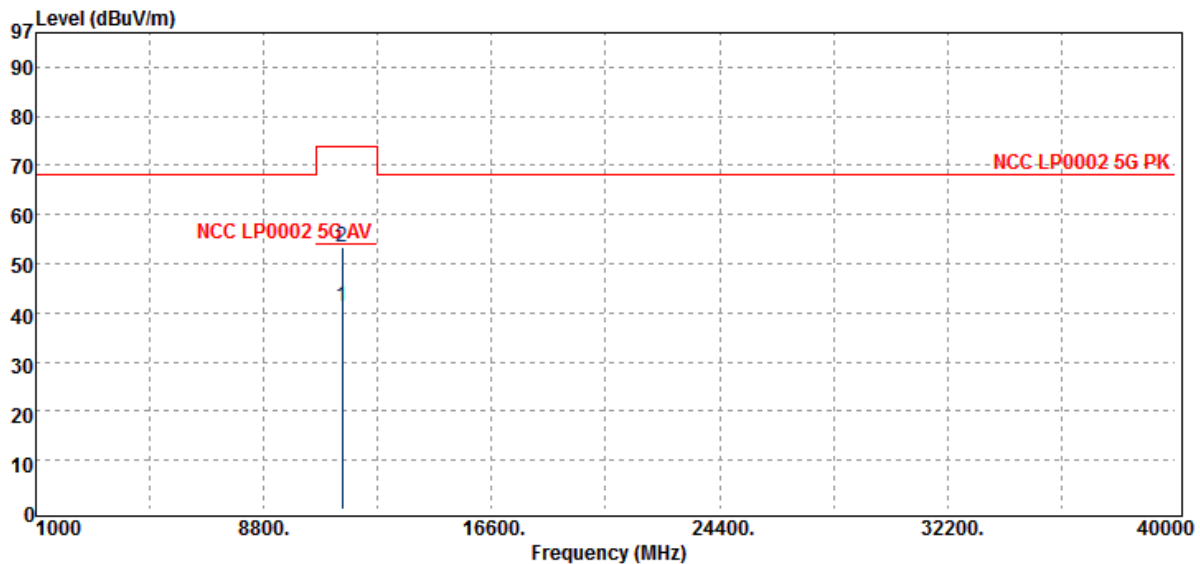
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Operation Band :802.11n20B4
Fundamental Frequency :5745 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11490.00	H	Average	21.00	20.42	41.42	54.00	-12.58
11490.00	H	Peak	32.94	20.42	53.36	74.00	-20.64

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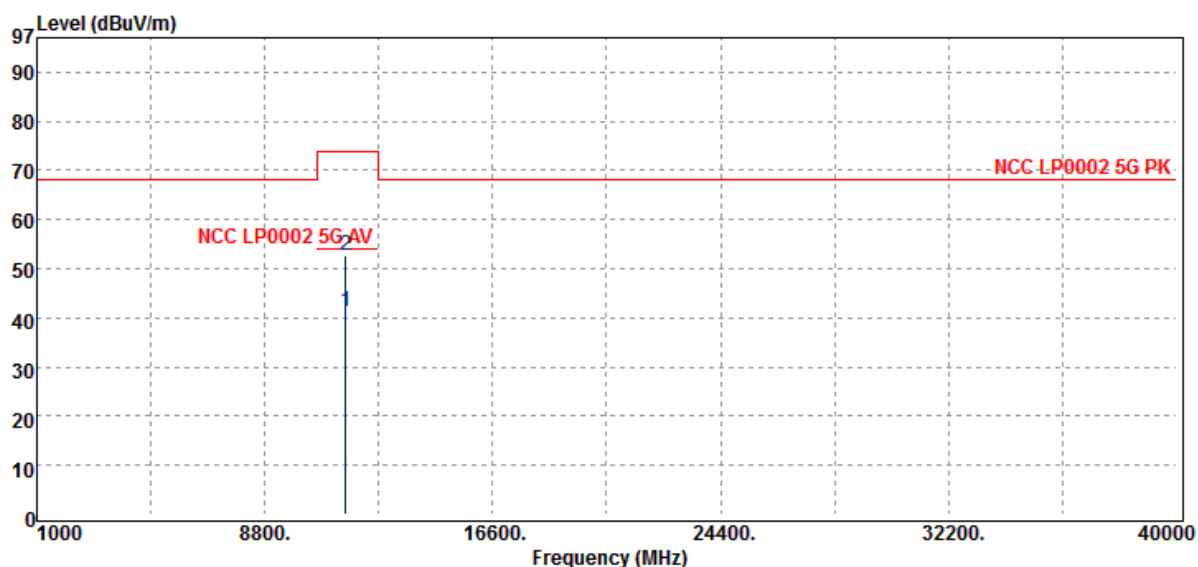
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Operation Band :802.11n20B4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11570.00	H	Average	20.82	20.58	41.40	54.00	-12.60
11570.00	H	Peak	32.08	20.58	52.66	74.00	-21.34

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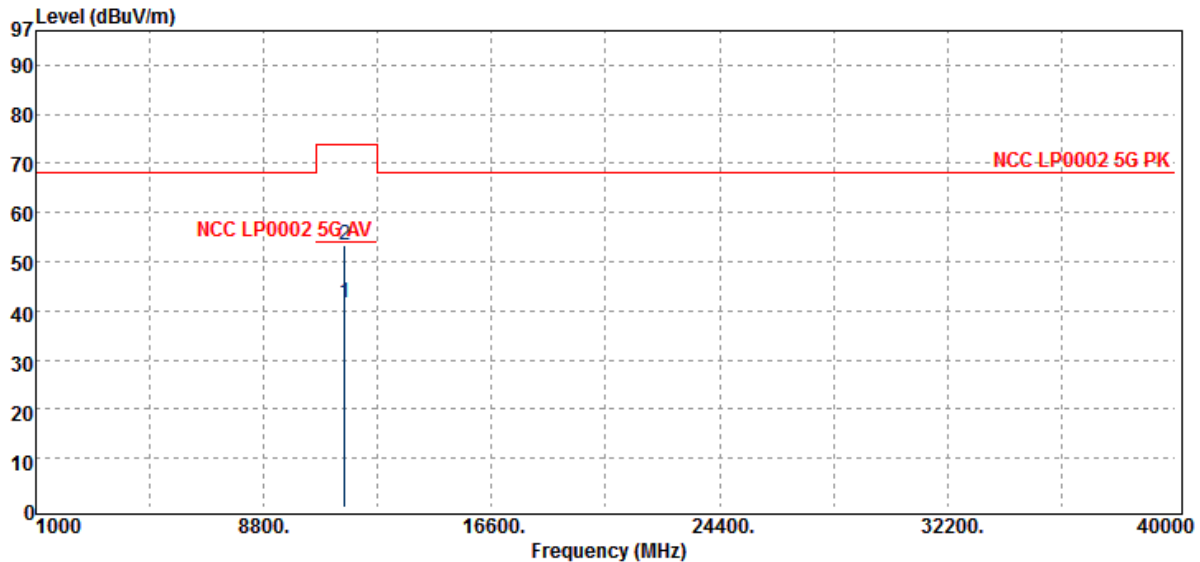
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Operation Band :802.11n20B4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11570.00	H	Average	21.04	20.58	41.62	54.00	-12.38
11570.00	H	Peak	32.85	20.58	53.43	74.00	-20.57

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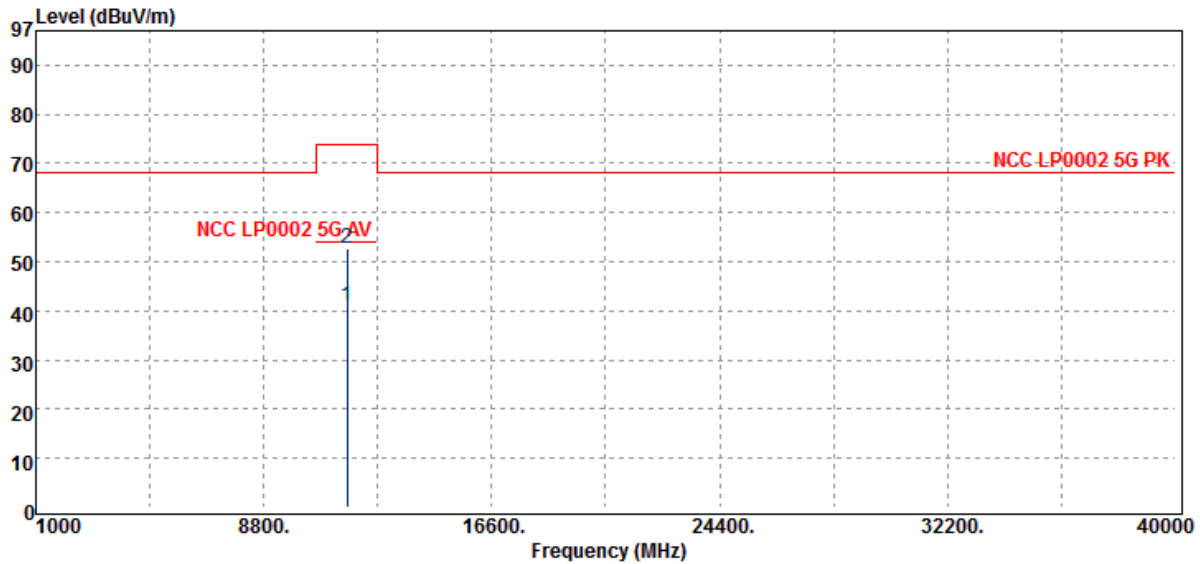
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Operation Band :802.11n20B4
Fundamental Frequency :5825 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11650.00	H	Average	20.52	20.43	40.95	54.00	-13.05
11650.00	H	Peak	32.31	20.43	52.74	74.00	-21.26

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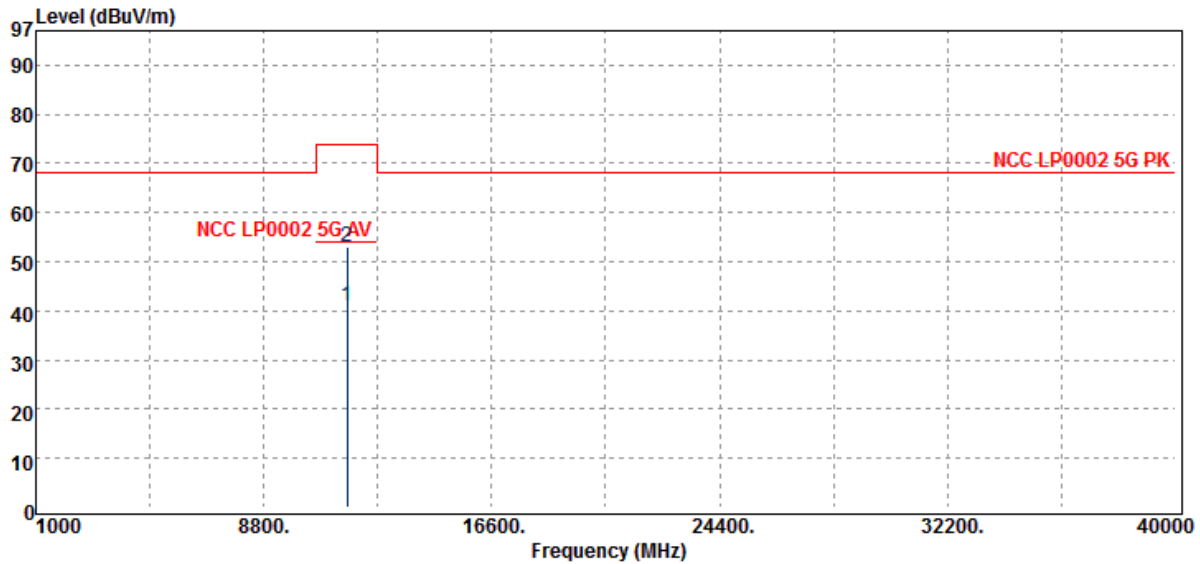
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Operation Band :802.11n20B4
Fundamental Frequency :5825 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11650.00	H	Average	20.64	20.43	41.07	54.00	-12.93
11650.00	H	Peak	32.45	20.43	52.88	74.00	-21.12

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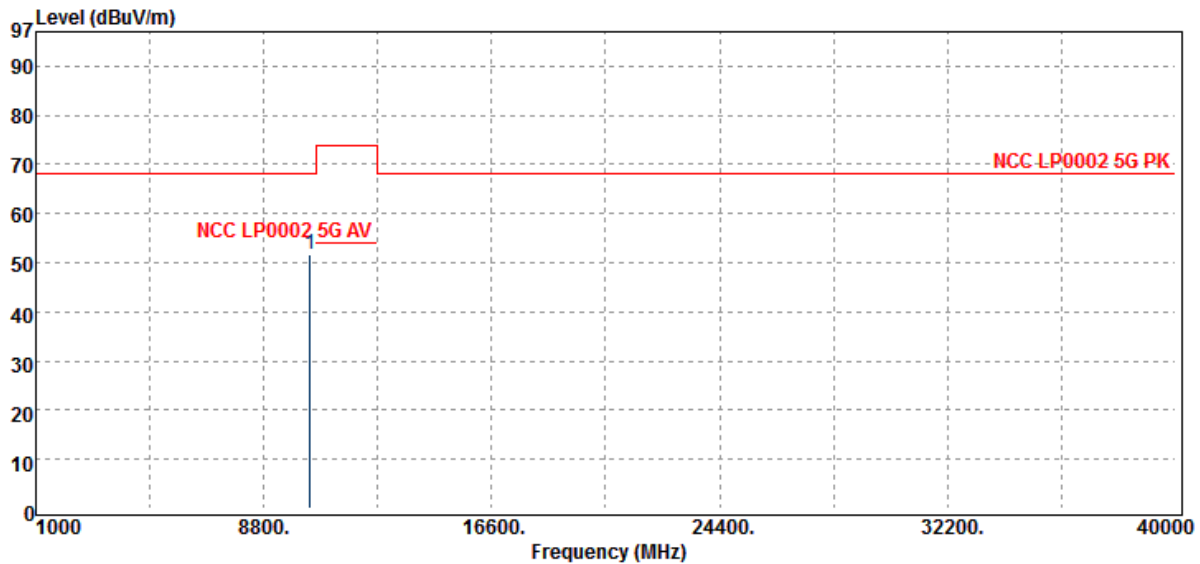
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802.11n HT40 / MCS8 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

Operation Band	:802.11n40B1	Test Date	:2017-07-31
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10380.00	H	Peak	33.49	18.12	51.61	68.30	-16.69

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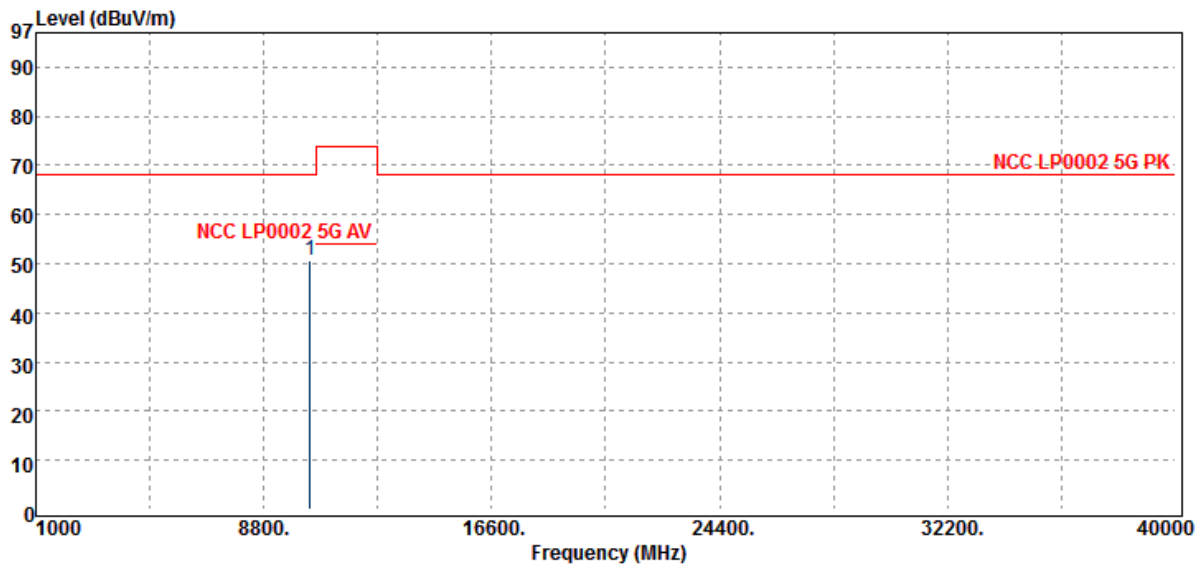
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Operation Band	:802.11n40B1	Test Date	:2017-07-31
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10380.00	H	Peak	32.68	18.12	50.80	68.30	-17.50

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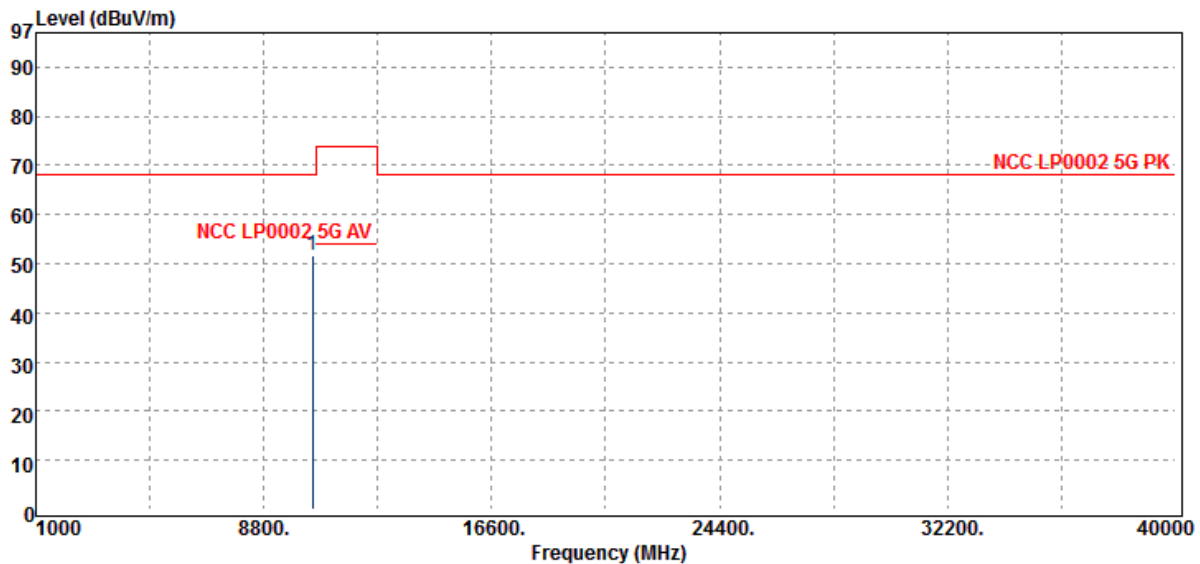
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Operation Band	:802.11n40B1	Test Date	:2017-07-31
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10460.00	H	Peak	33.24	18.55	51.79	68.30	-16.51

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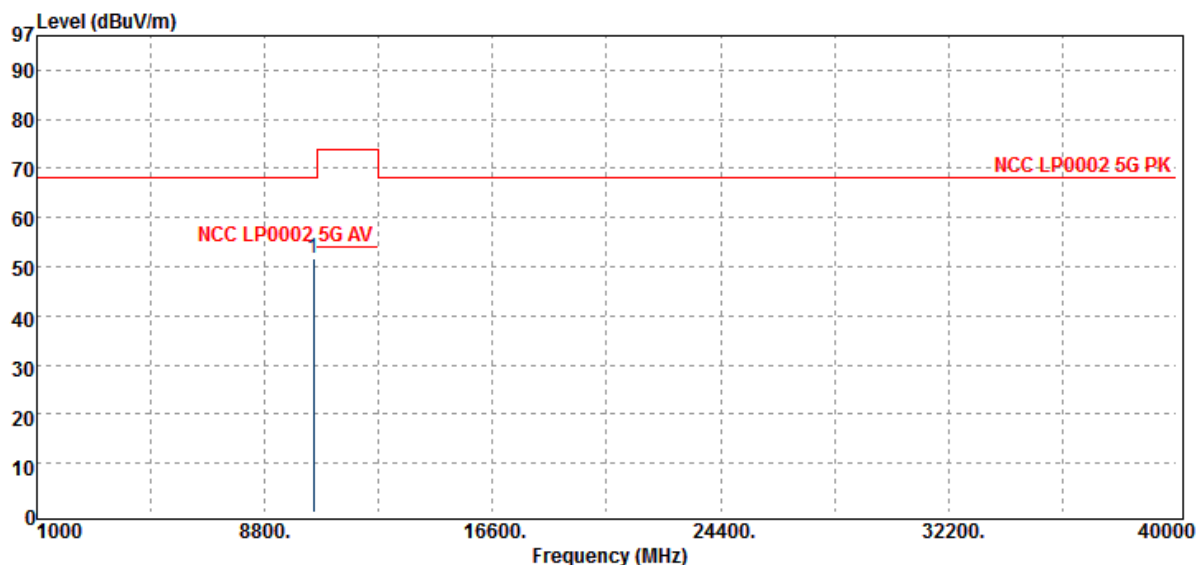
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Operation Band :802.11n40B1
Fundamental Frequency :5230 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10460.00	H	Peak	33.09	18.55	51.64	68.30	-16.66

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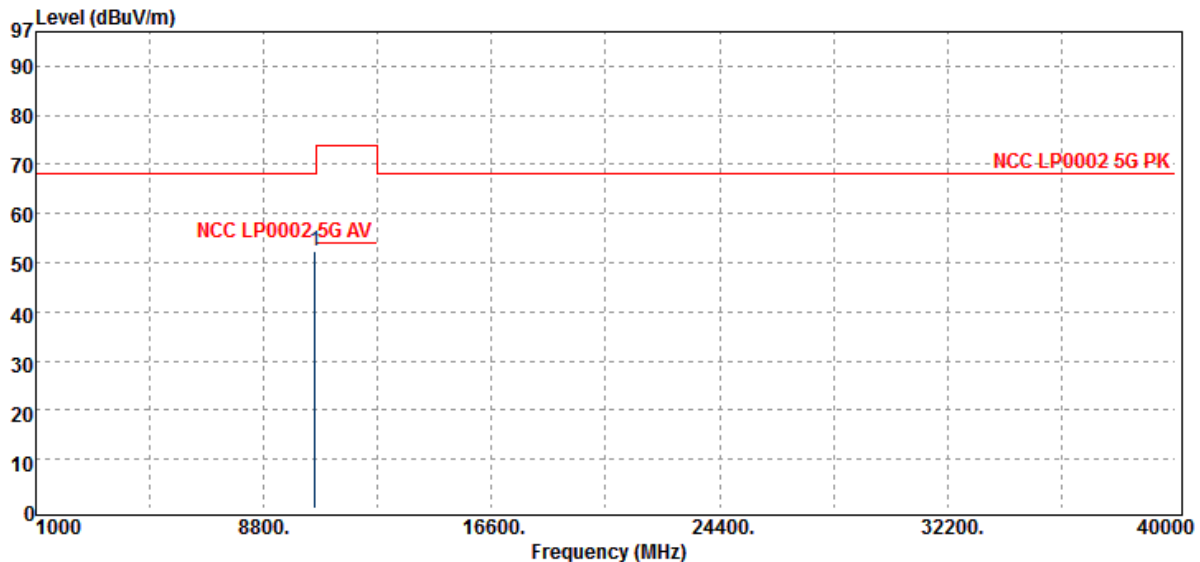
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802.11n HT40 / MCS8 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

Operation Band	:802.11n40B2	Test Date	:2017-07-31
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10540.00	H	Peak	33.12	19.17	52.29	68.30	-16.01

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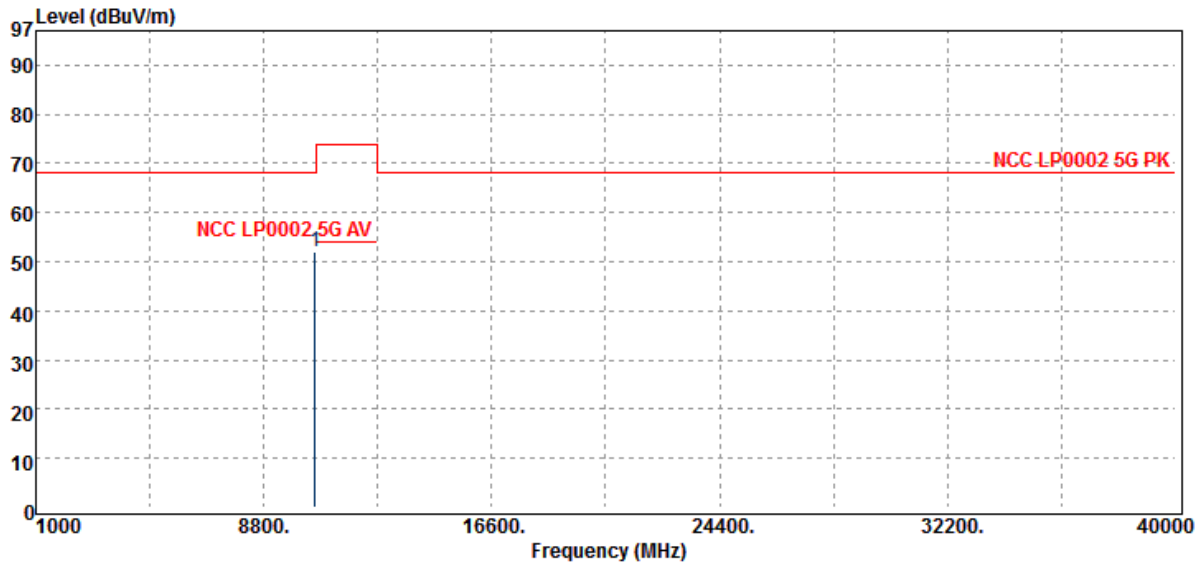
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Operation Band :802.11n40B2
Fundamental Frequency :5270 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10540.00	H	Peak	33.01	19.17	52.18	68.30	-16.12

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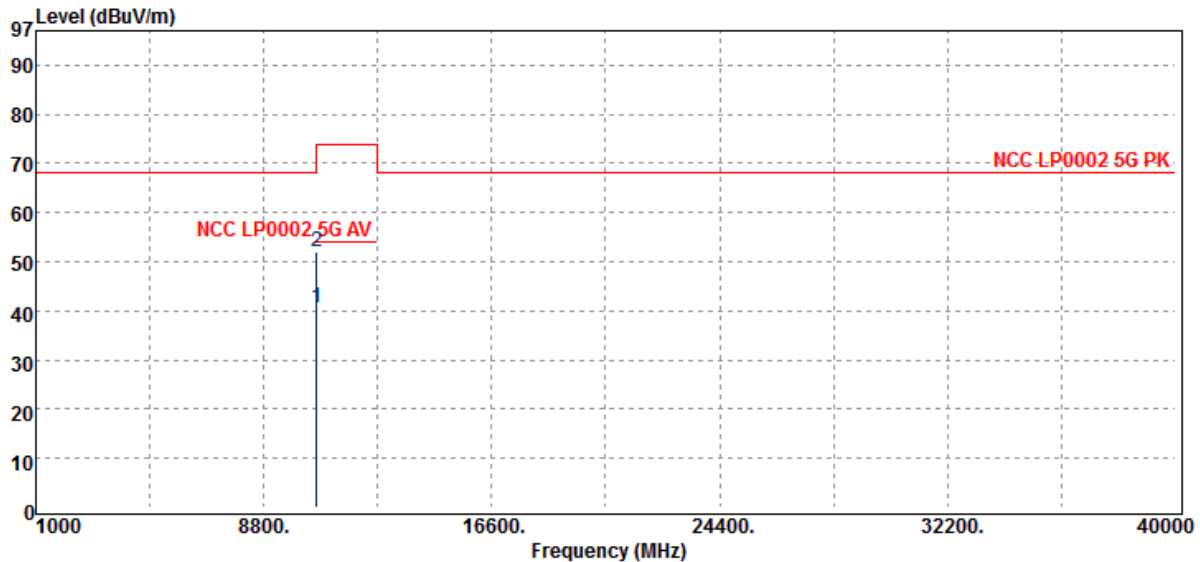
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Operation Band :802.11n40B2
Fundamental Frequency :5310 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10620.00	H	Average	21.63	19.11	40.74	54.00	-13.26
10620.00	H	Peak	33.07	19.11	52.18	74.00	-21.82

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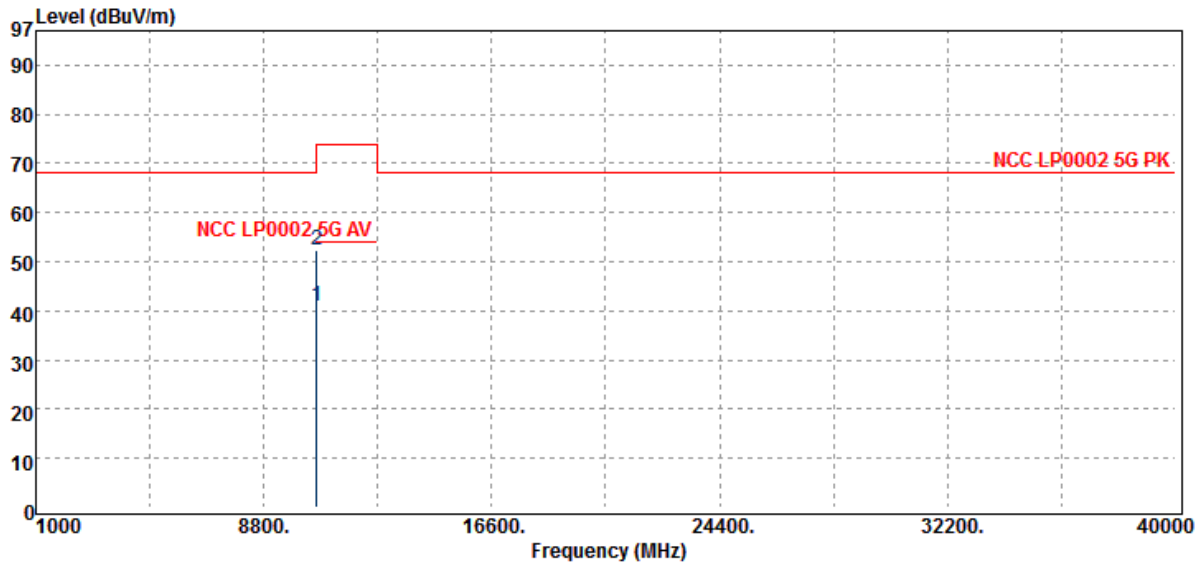
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Operation Band :802.11n40B2
Fundamental Frequency :5310 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10620.00	H	Average	21.78	19.11	40.89	54.00	-13.11
10620.00	H	Peak	33.36	19.11	52.47	74.00	-21.53

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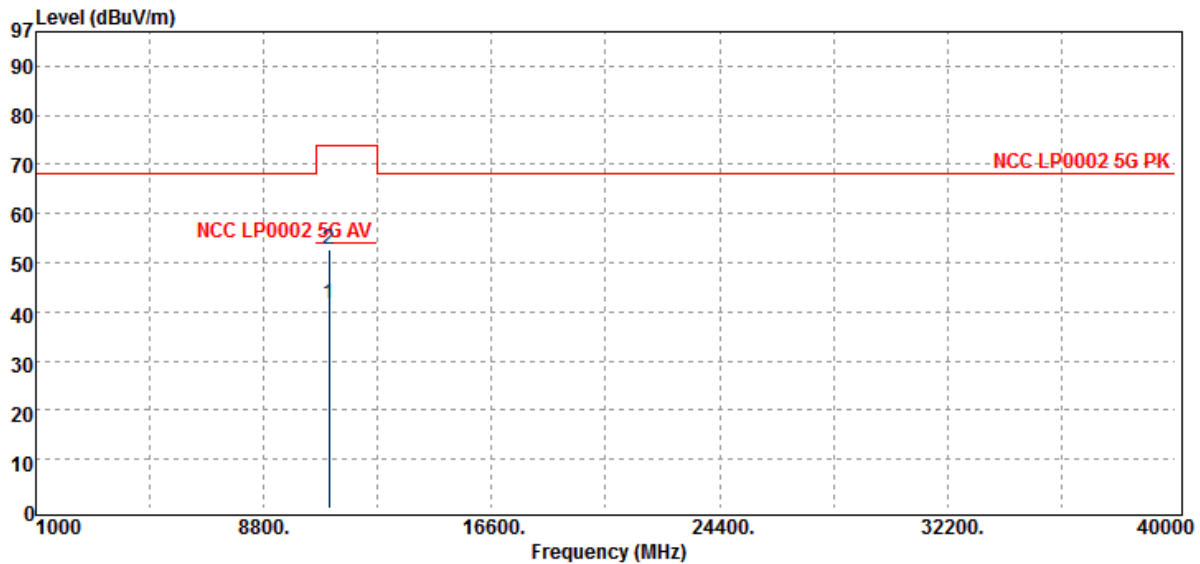
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Member of SGS Group

802.11n HT40 / MCS0 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

Operation Band	:802.11n40B3	Test Date	:2017-07-31
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11020.00	H	Average	21.44	20.16	41.60	54.00	-12.40
11020.00	H	Peak	32.48	20.16	52.64	74.00	-21.36

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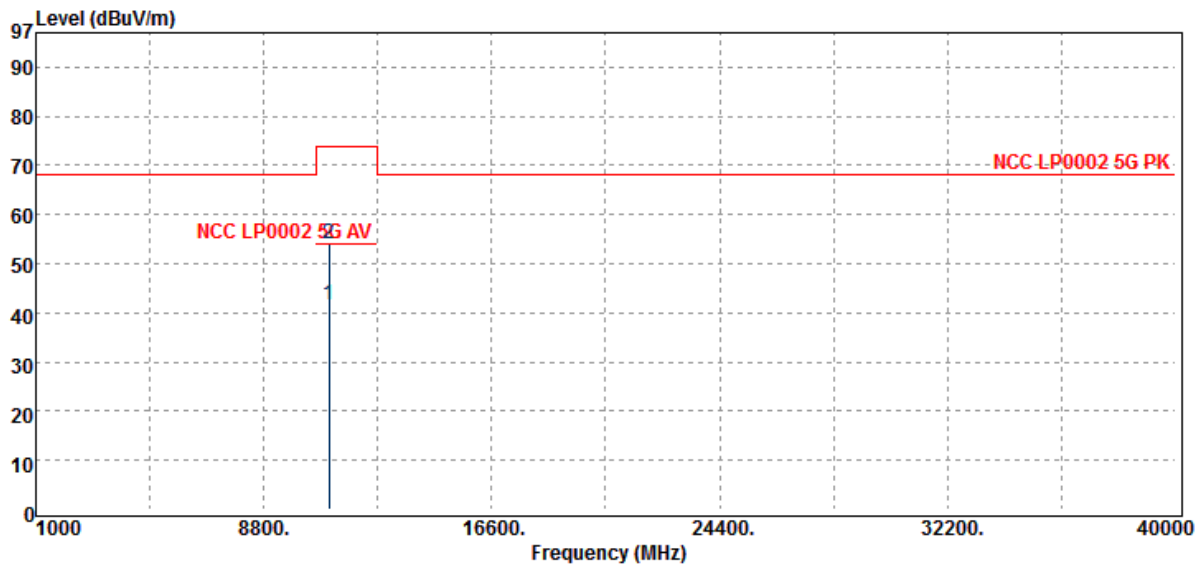
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Operation Band	:802.11n40B3	Test Date	:2017-07-31
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11020.00	H	Average	21.57	20.16	41.73	54.00	-12.27
11020.00	H	Peak	34.02	20.16	54.18	74.00	-19.82

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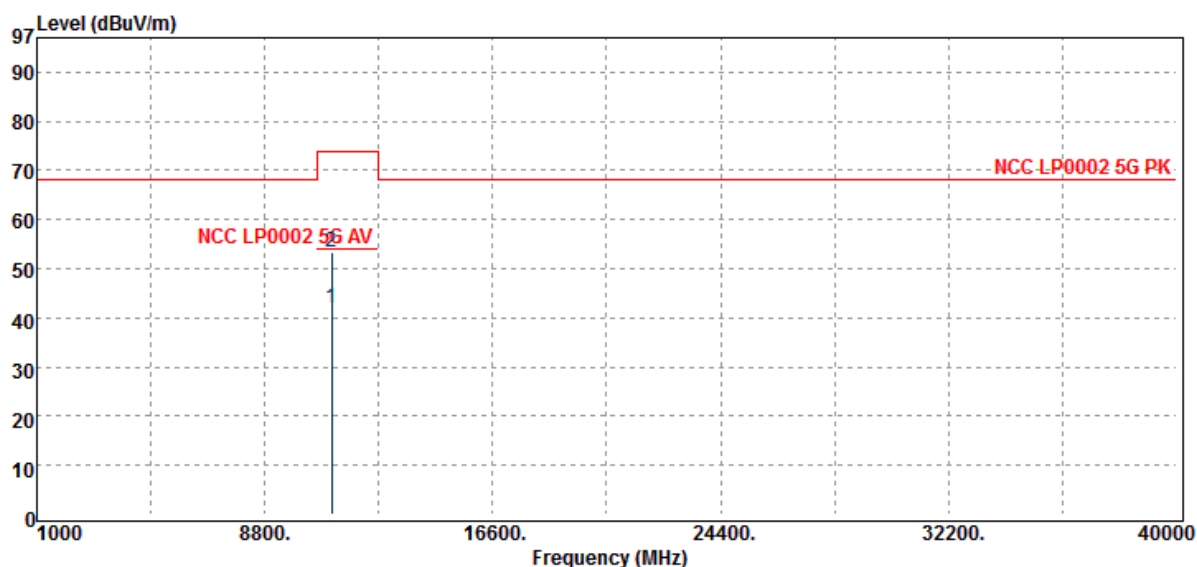
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Operation Band	:802.11n40B3	Test Date	:2017-07-31
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11100.00	H	Average	21.47	20.32	41.79	54.00	-12.21
11100.00	H	Peak	33.03	20.32	53.35	74.00	-20.65

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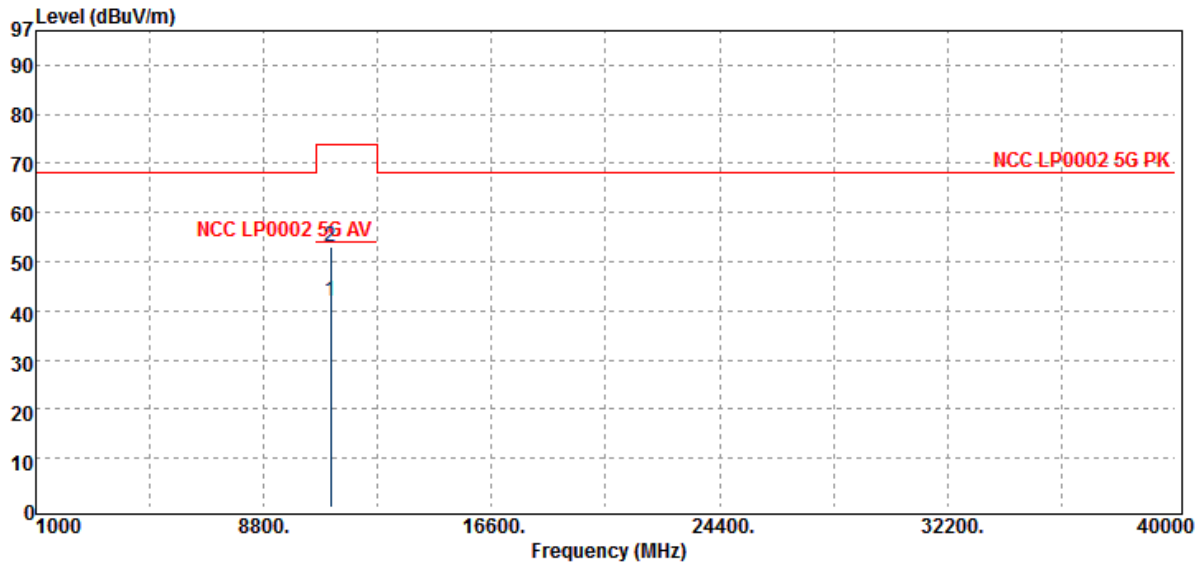
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Operation Band :802.11n40B3
Fundamental Frequency :5550 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11100.00	H	Average	21.58	20.32	41.90	54.00	-12.10
11100.00	H	Peak	32.71	20.32	53.03	74.00	-20.97

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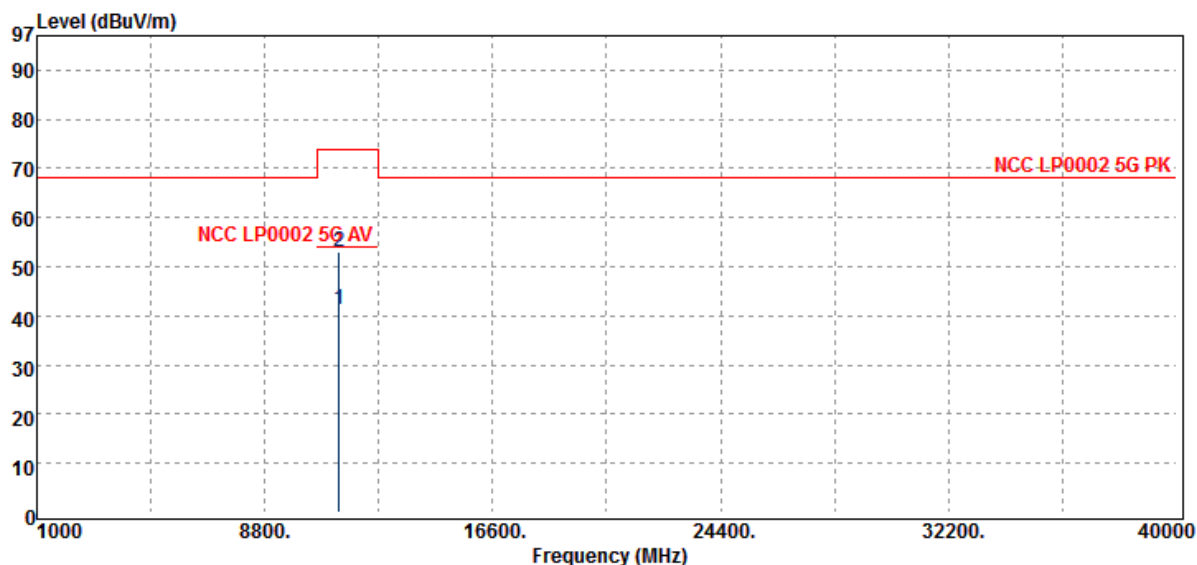
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Operation Band	:802.11n40B3	Test Date	:2017-07-31
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11340.00	H	Average	21.05	20.38	41.43	54.00	-12.57
11340.00	H	Peak	32.52	20.38	52.90	74.00	-21.10

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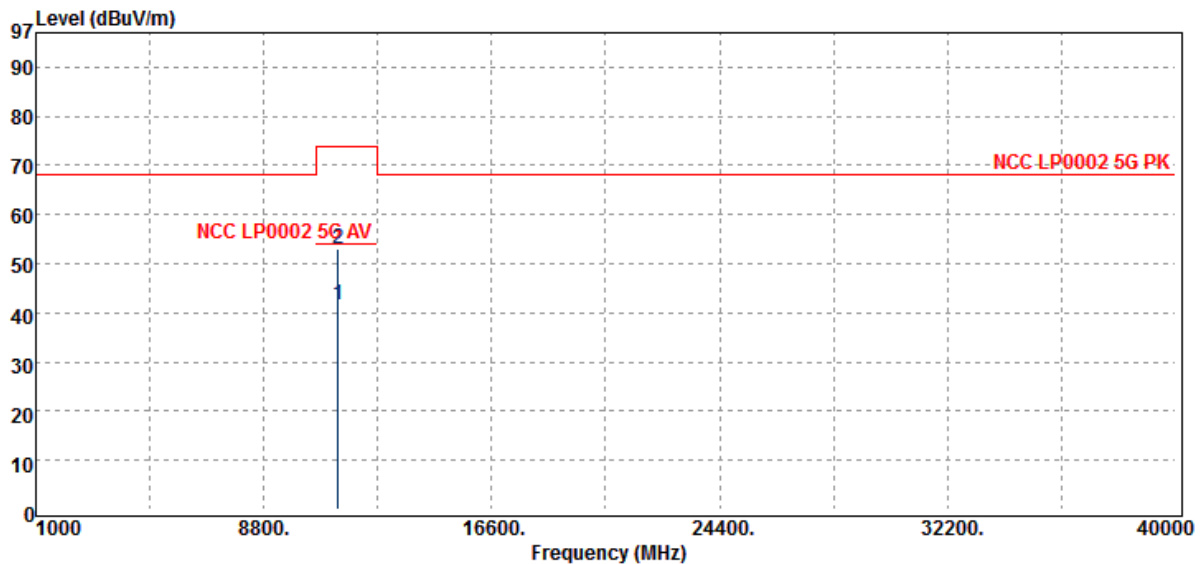
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Operation Band	:802.11n40B3	Test Date	:2017-07-31
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11340.00	H	Average	21.08	20.38	41.46	54.00	-12.54
11340.00	H	Peak	32.50	20.38	52.88	74.00	-21.12

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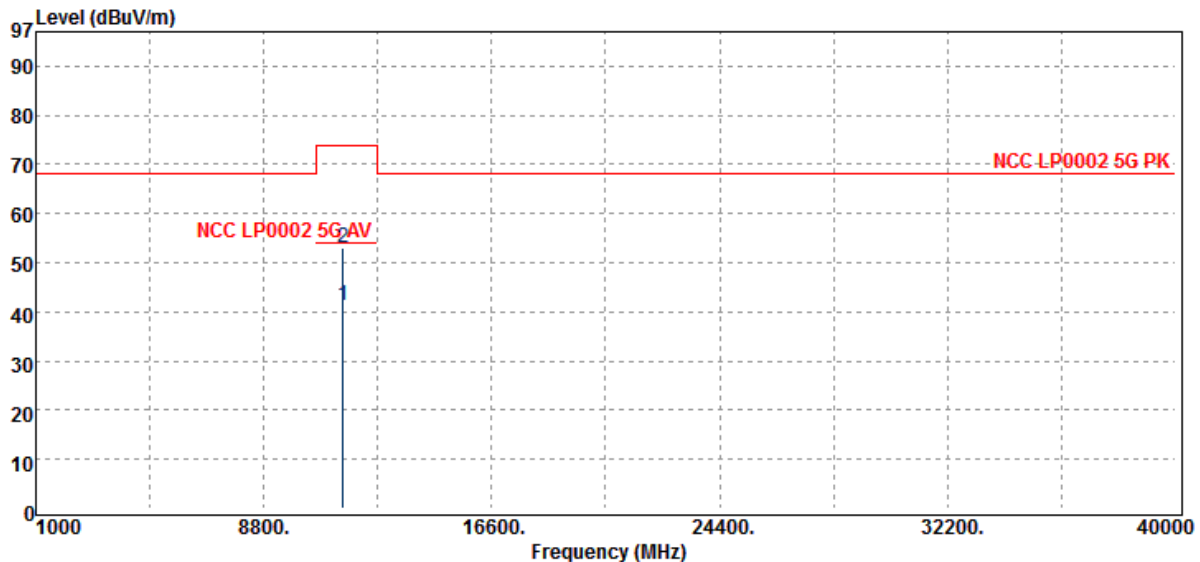
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802.11 n HT40 /MCS8 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

Operation Band	:802.11n40B4	Test Date	:2017-07-31
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBμV	dB			dB
11510.00	H	Average	20.77	20.38	41.15	54.00	-12.85
11510.00	H	Peak	32.78	20.38	53.16	74.00	-20.84

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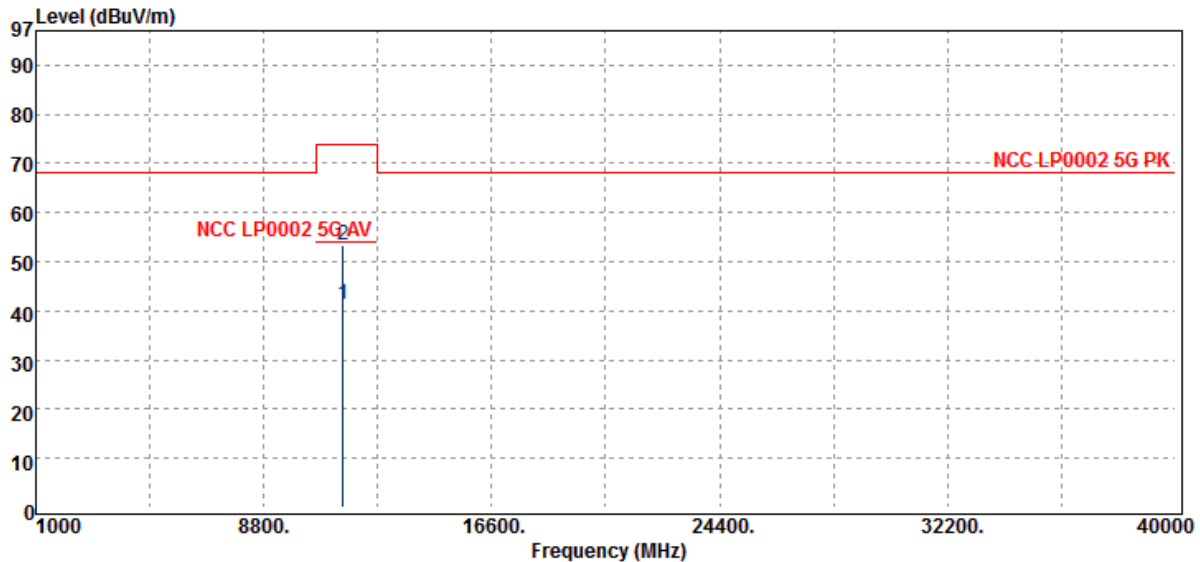
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Operation Band :802.11n40B4
Fundamental Frequency :5755 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11510.00	H	Average	20.80	20.38	41.18	54.00	-12.82
11510.00	H	Peak	32.88	20.38	53.26	74.00	-20.74

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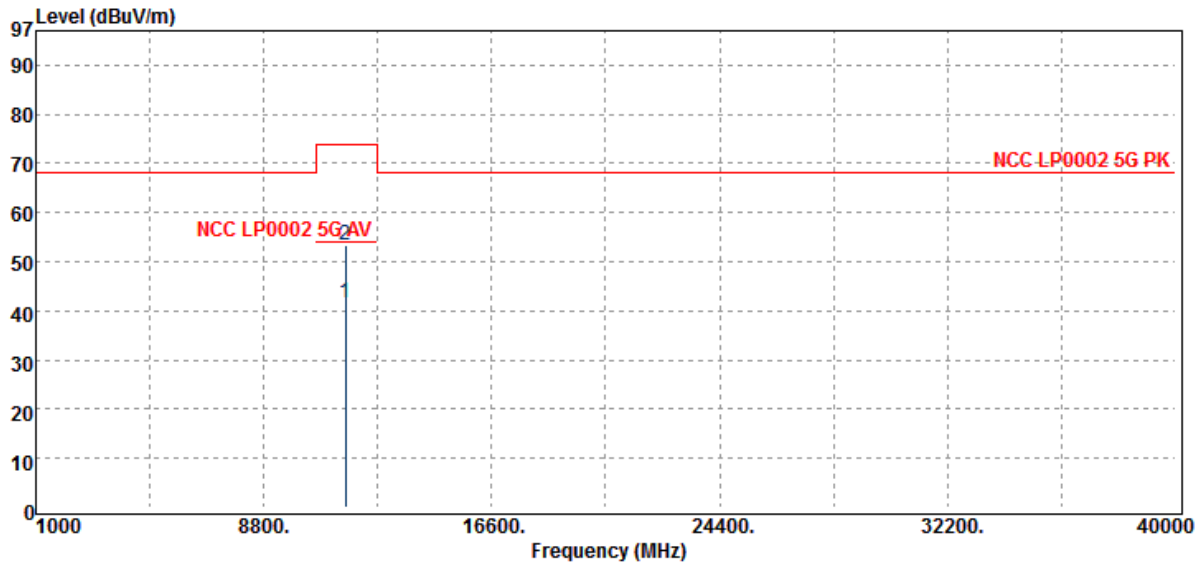
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Operation Band :802.11n40B4
Fundamental Frequency :5795 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11590.00	H	Average	21.04	20.43	41.47	54.00	-12.53
11590.00	H	Peak	33.08	20.43	53.51	74.00	-20.49

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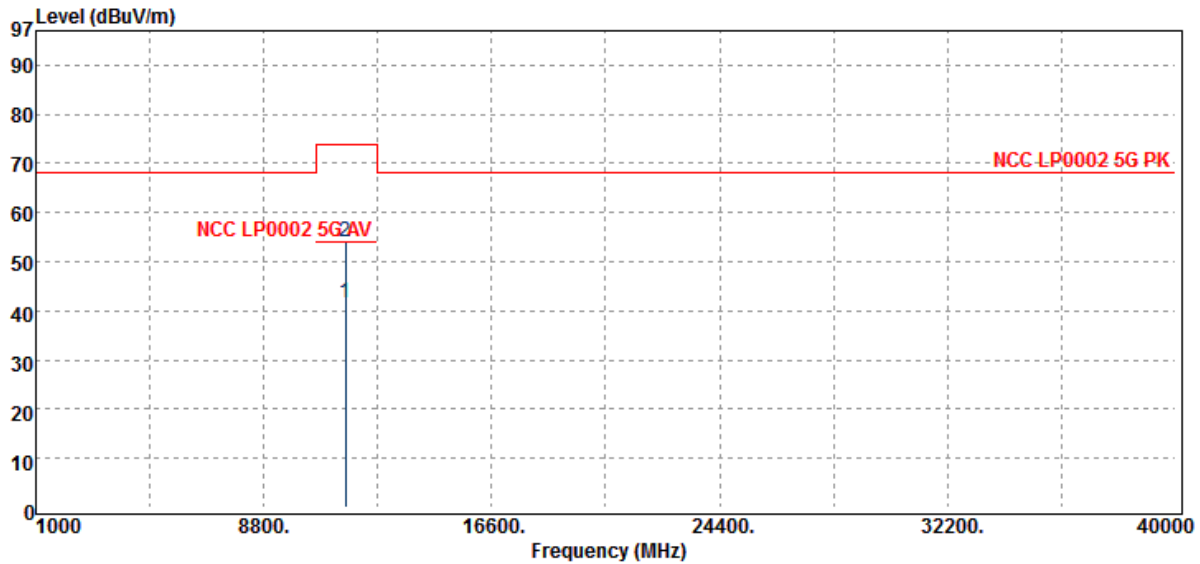
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Operation Band :802.11n40B4
Fundamental Frequency :5795 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11590.00	H	Average	21.22	20.43	41.65	54.00	-12.35
11590.00	H	Peak	33.44	20.43	53.87	74.00	-20.13

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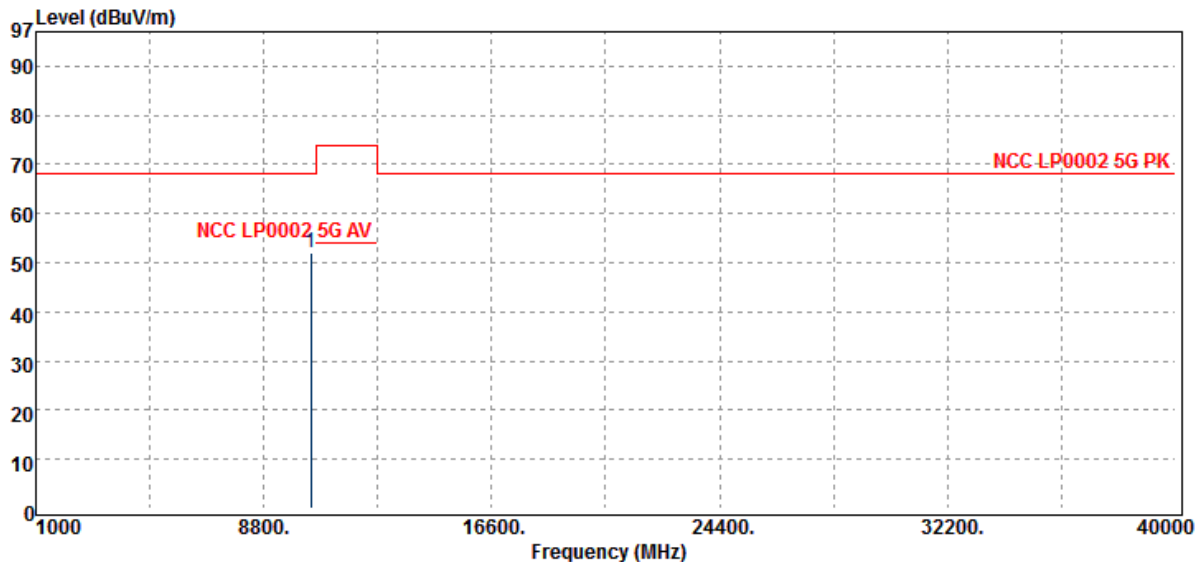
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802.11ac VHT80 / MCS8 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

Operation Band	:802.11ac80B1	Test Date	:2017-07-31
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10420.00	H	Peak	33.48	18.71	52.19	68.30	-16.11

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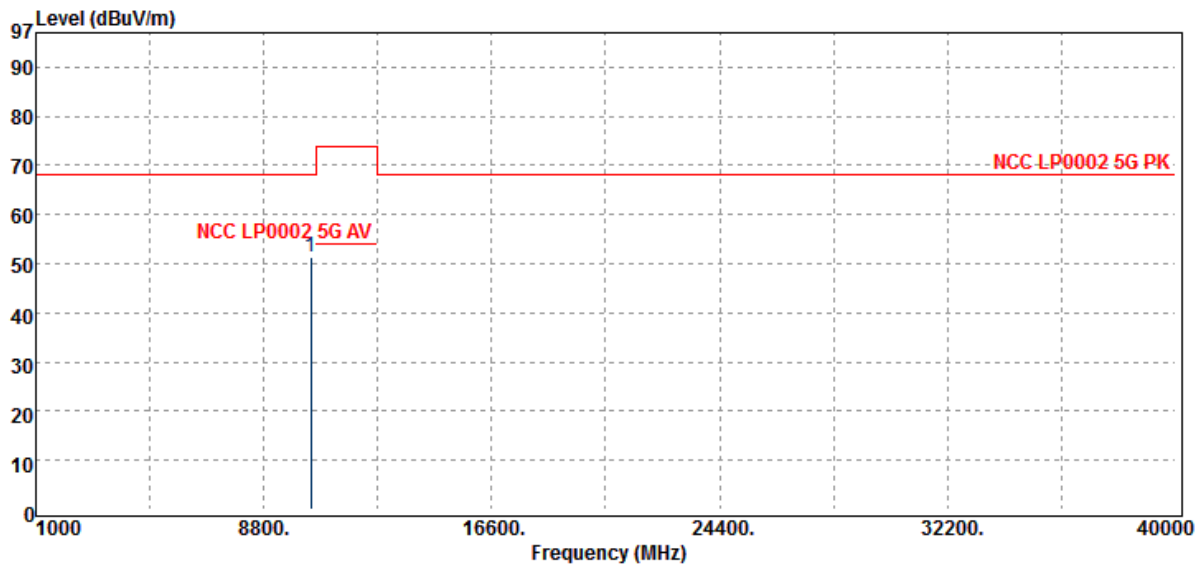
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10420.00	H	Peak	32.48	18.71	51.19	68.30	-17.11

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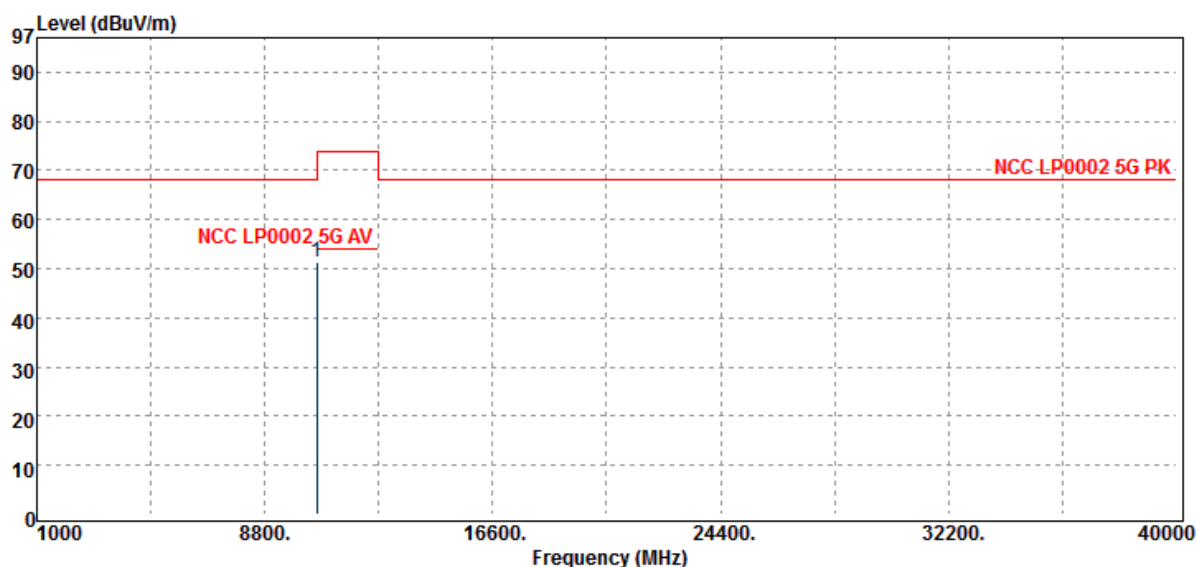
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802.11ac VHT80 / MCS8 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10580.00	H	Peak	32.61	18.88	51.49	68.30	-16.81

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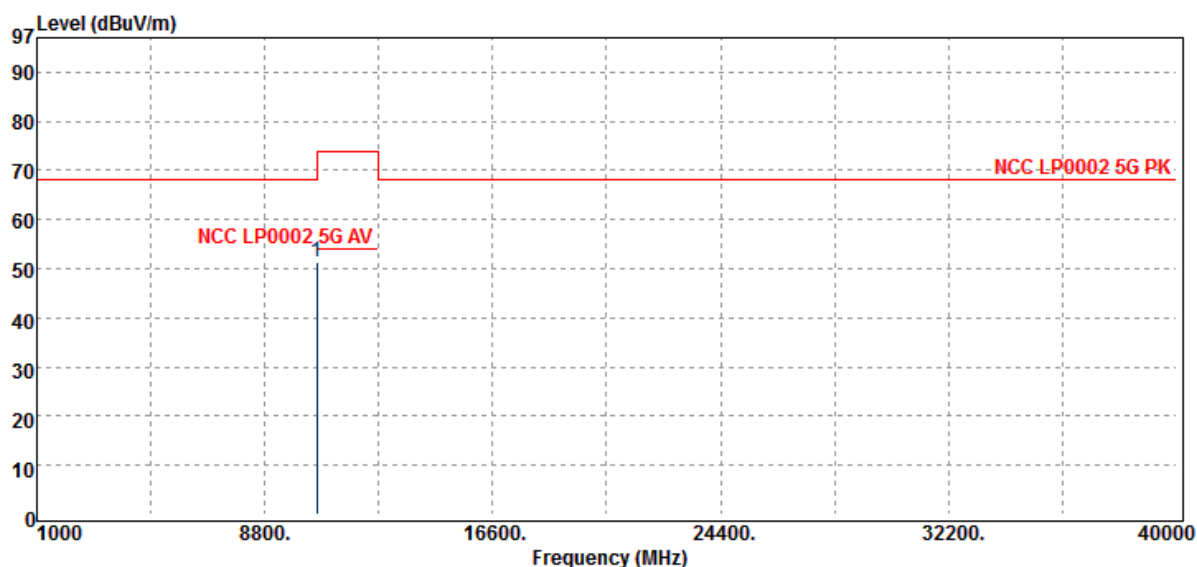
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Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10580.00	H	Peak	32.52	18.88	51.40	68.30	-16.90

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802.11ac VHT80 / MCS8 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

Operation Band :802.11ac80B3

Test Date

:2017-07-31

Fundamental Frequency :5530 MHz

Temp./Humi.

:23 deg_C / 62 RH

Operation Mode :Tx CH LOW

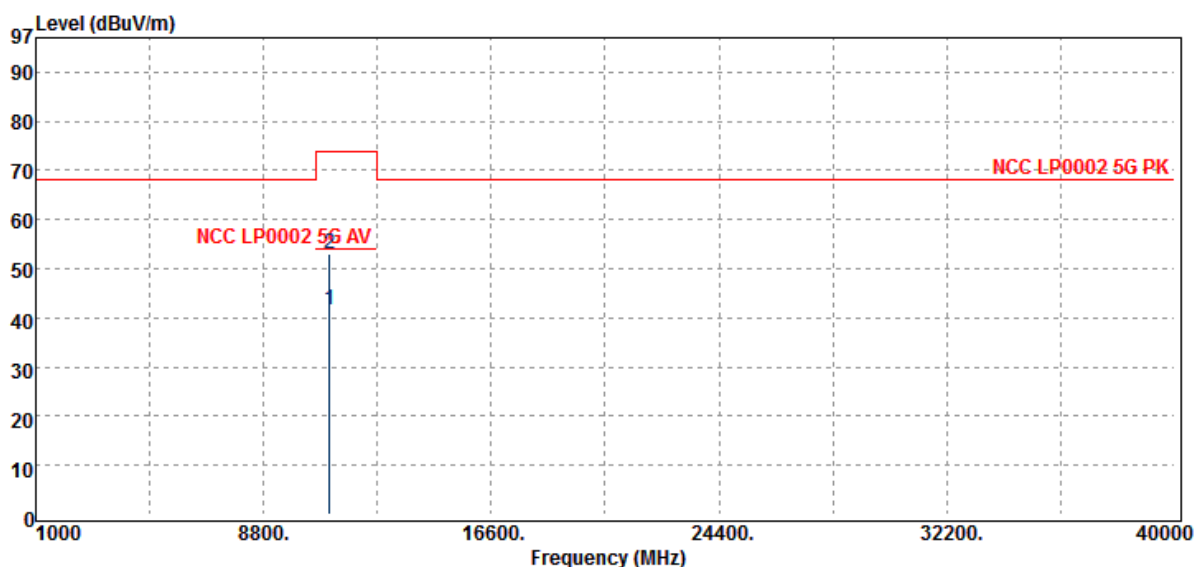
Engineer

:Tin

EUT Pol. :H Plane

Measurement Antenna Pol.

:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11060.00	H	Average	21.22	20.27	41.49	54.00	-12.51
11060.00	H	Peak	32.85	20.27	53.12	74.00	-20.88

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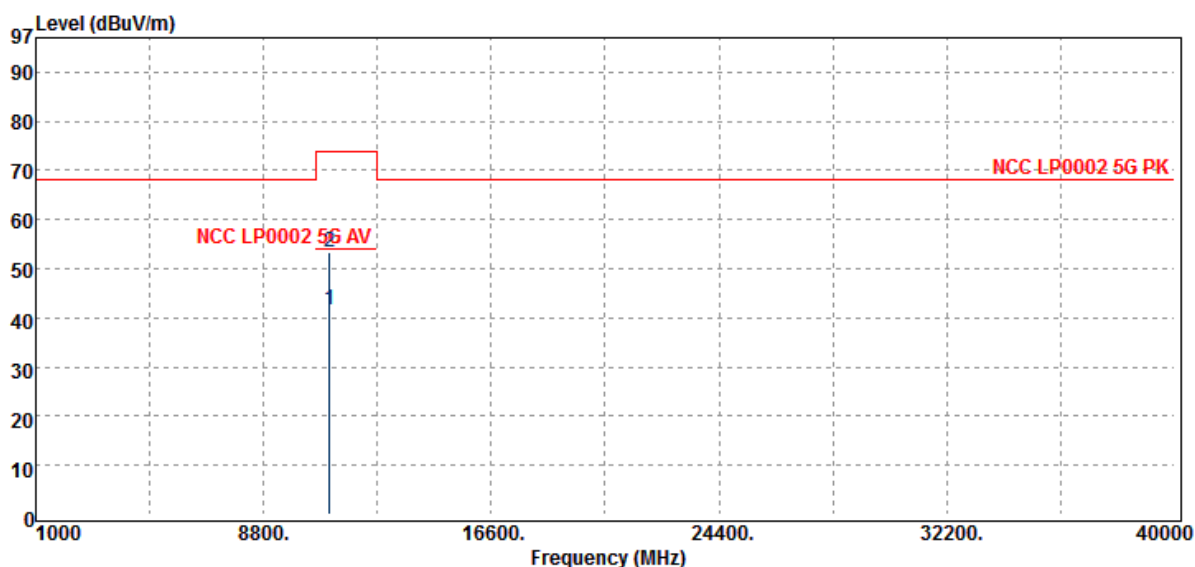
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Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11060.00	H	Average	21.36	20.27	41.63	54.00	-12.37
11060.00	H	Peak	33.03	20.27	53.30	74.00	-20.70

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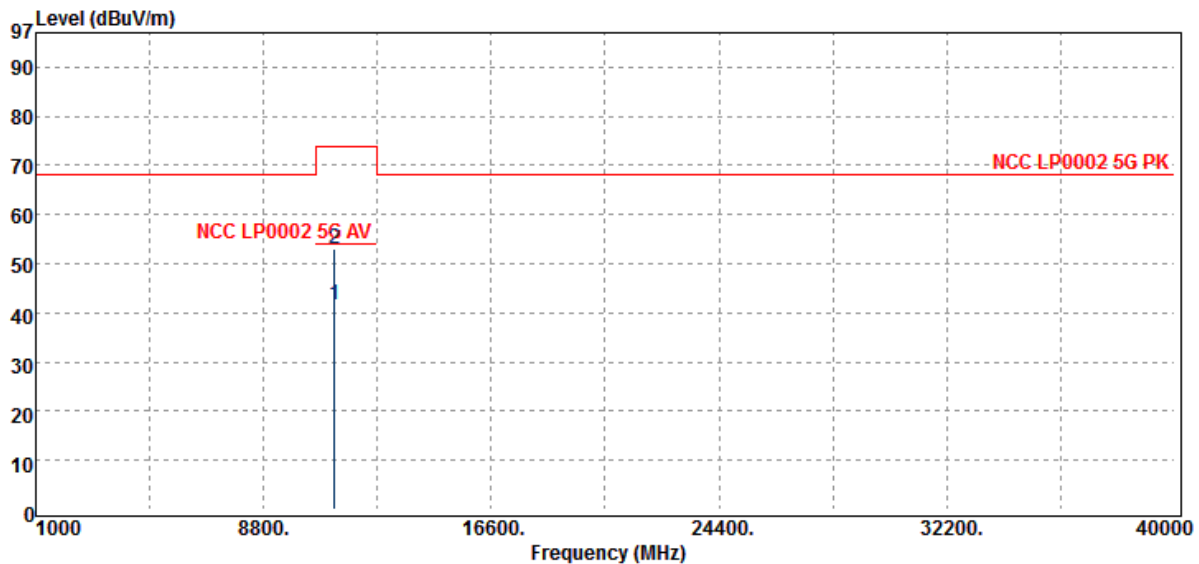
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Operation Band :802.11ac80B3
 Fundamental Frequency :5610 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11220.00	H	Average	21.10	20.47	41.57	54.00	-12.43
11220.00	H	Peak	32.40	20.47	52.87	74.00	-21.13

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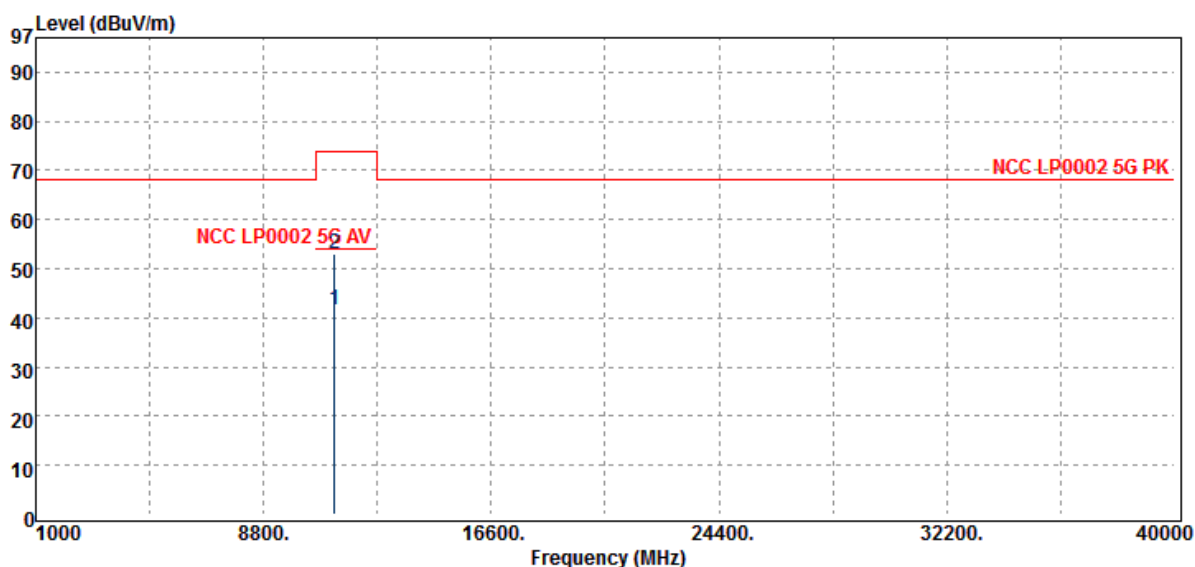
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Operation Band :802.11ac80B3
 Fundamental Frequency :5610 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11220.00	H	Average	21.22	20.47	41.69	54.00	-12.31
11220.00	H	Peak	32.49	20.47	52.96	74.00	-21.04

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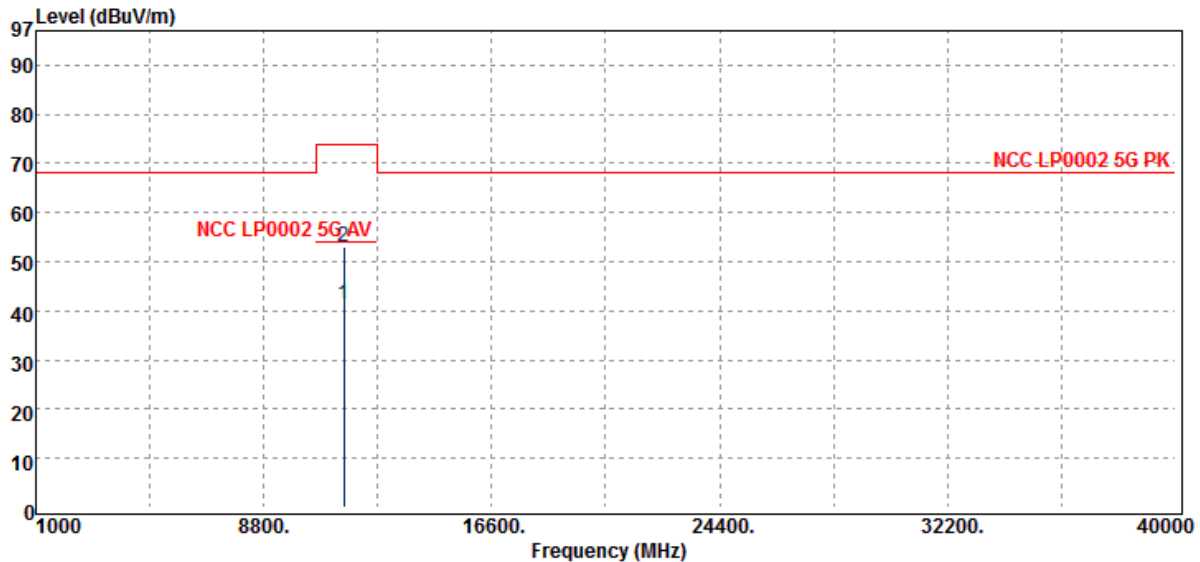
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802.11ac VHT80 / MCS8 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

Operation Band	:802.11ac80B4	Test Date	:2017-07-31
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11550.00	H	Average	20.75	20.51	41.26	54.00	-12.74
11550.00	H	Peak	32.59	20.51	53.10	74.00	-20.90

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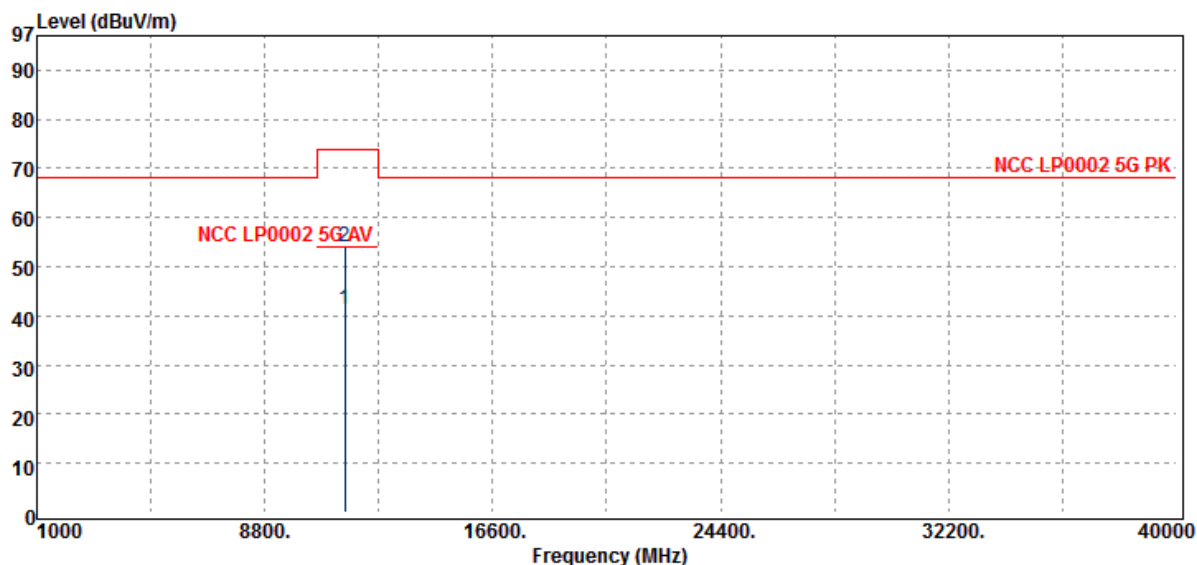
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Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11550.00	H	Average	20.86	20.51	41.37	54.00	-12.63
11550.00	H	Peak	33.39	20.51	53.90	74.00	-20.10

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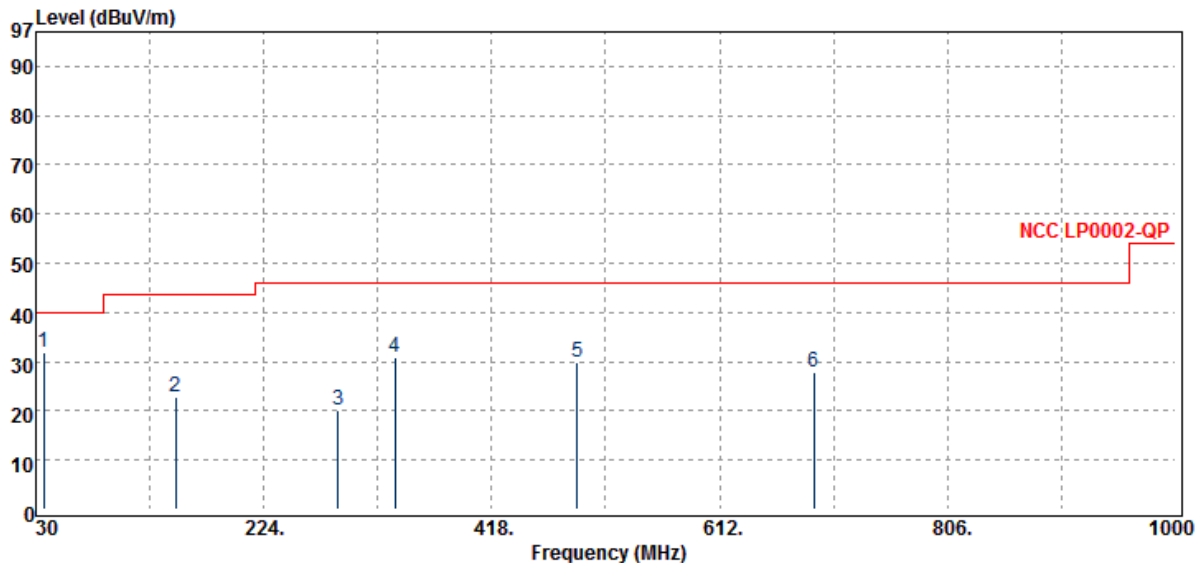
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802.11a / 6Mbps 接收模式 1GHz 以下測試 (最差模式) (5150MHz-5250MHz)

Operation Band	:802.11aB1	Test Date	:2017-07-31
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	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
36.79	S	Peak	40.85	-8.84	32.01	40.00	-7.99
149.31	S	Peak	30.66	-7.81	22.85	43.50	-20.65
287.05	S	Peak	26.34	-6.19	20.15	46.00	-25.85
335.55	S	Peak	36.10	-5.32	30.78	46.00	-15.22
490.75	S	Peak	32.29	-2.53	29.76	46.00	-16.24
692.51	S	Peak	26.27	1.47	27.74	46.00	-18.26

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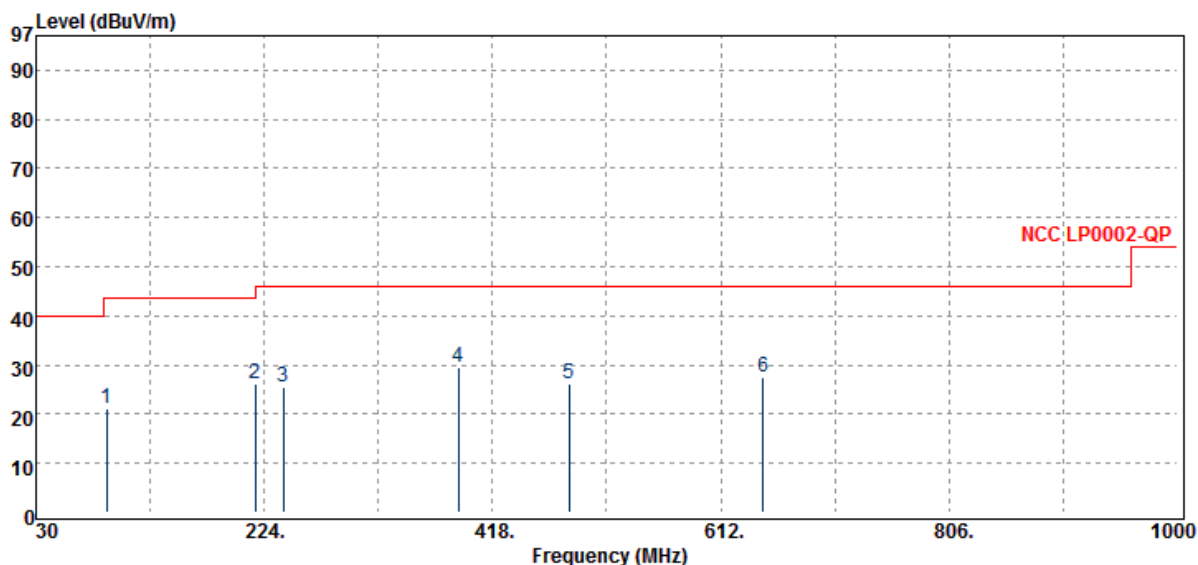
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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Rx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
90.14	S	Peak	34.86	-13.73	21.13	43.50	-22.37
216.24	S	Peak	35.59	-9.43	26.16	46.00	-19.84
240.49	S	Peak	33.54	-8.04	25.50	46.00	-20.50
388.90	S	Peak	33.91	-4.29	29.62	46.00	-16.38
482.99	S	Peak	28.80	-2.47	26.33	46.00	-19.67
647.89	S	Peak	27.04	0.42	27.46	46.00	-18.54

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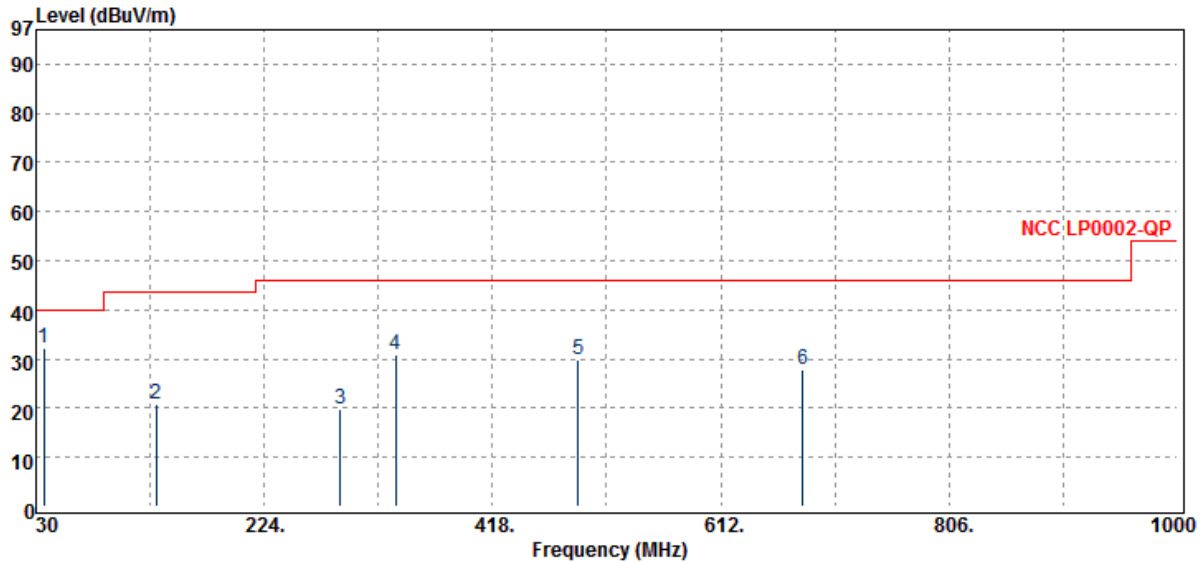
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802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以下) (最差模式) (5250MHz-5350MHz)

Operation Band	:802.11aB2	Test Date	:2017-07-31
Fundamental Frequency	:5300 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	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
36.79	S	Peak	41.00	-8.84	32.16	40.00	-7.84
131.85	S	Peak	29.97	-9.26	20.71	43.50	-22.79
288.99	S	Peak	25.95	-6.09	19.86	46.00	-26.14
335.55	S	Peak	36.05	-5.32	30.73	46.00	-15.27
490.75	S	Peak	32.32	-2.53	29.79	46.00	-16.21
681.84	S	Peak	26.86	0.92	27.78	46.00	-18.22

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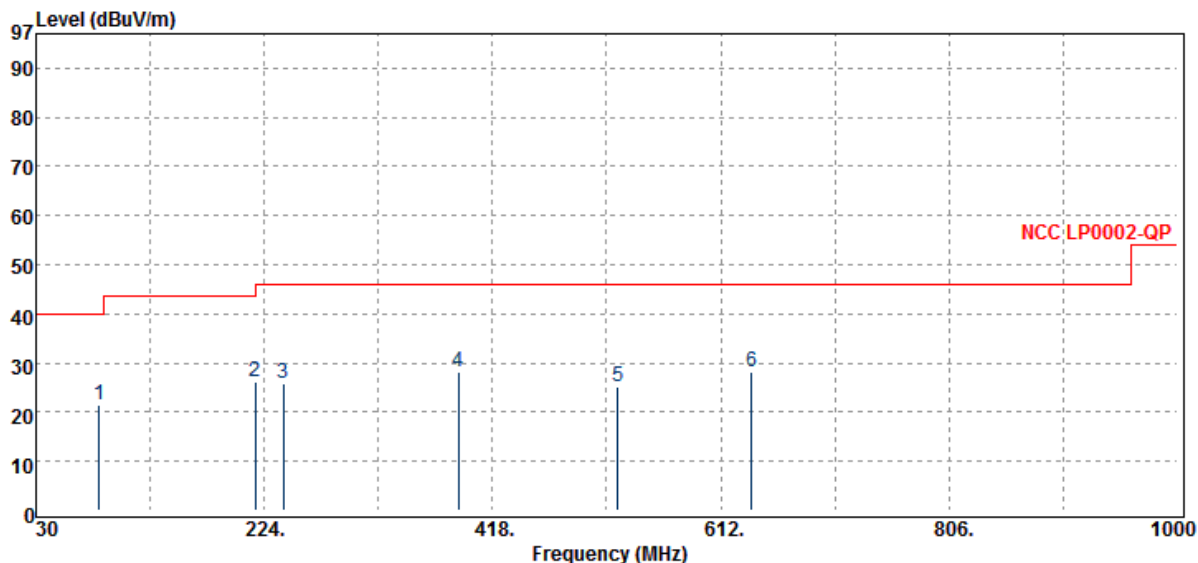
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Rx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
83.35	S	Peak	34.37	-12.77	21.60	40.00	-18.40
216.24	S	Peak	35.62	-9.43	26.19	46.00	-19.81
240.49	S	Peak	33.96	-8.04	25.92	46.00	-20.08
388.90	S	Peak	32.64	-4.29	28.35	46.00	-17.65
524.70	S	Peak	27.01	-1.68	25.33	46.00	-20.67
638.19	S	Peak	27.80	0.40	28.20	46.00	-17.80

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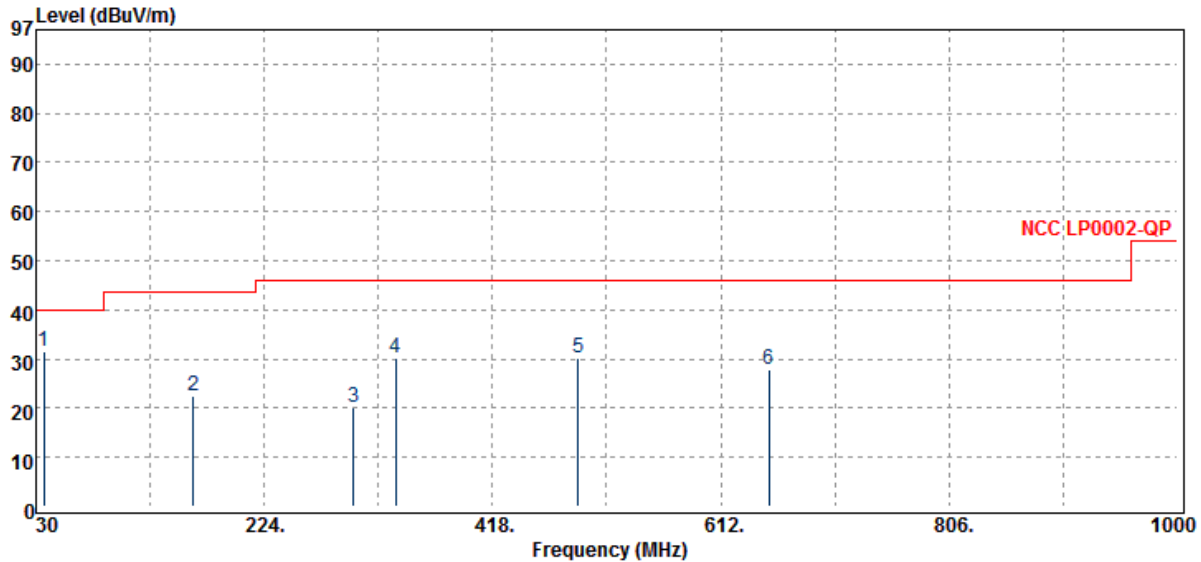
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802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以下) (最差模式) (5470MHz-5725MHz)

Operation Band	:802.11aB3	Test Date	:2017-07-31
Fundamental Frequency	:5580 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
36.79	S	Peak	40.37	-8.84	31.53	40.00	-8.47
163.86	S	Peak	29.94	-7.45	22.49	43.50	-21.01
299.66	S	Peak	26.18	-5.93	20.25	46.00	-25.75
335.55	S	Peak	35.55	-5.32	30.23	46.00	-15.77
490.75	S	Peak	32.62	-2.53	30.09	46.00	-15.91
652.74	S	Peak	27.34	0.53	27.87	46.00	-18.13

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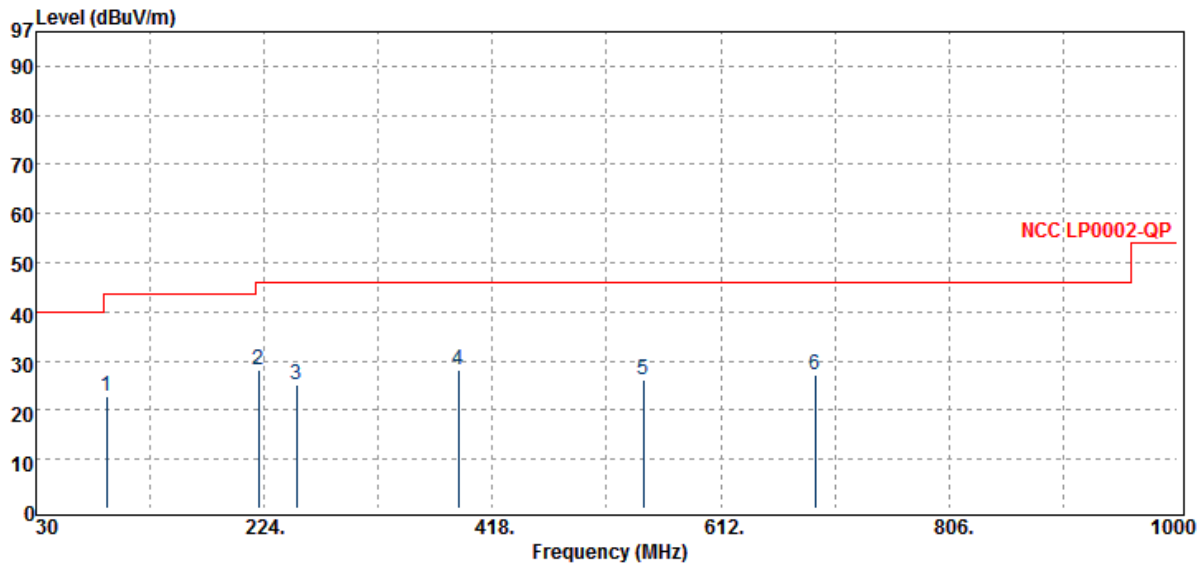
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Rx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
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	dBμV	dB	dBμV/m	dBμV/m	dB
90.14	S	Peak	36.48	-13.73	22.75	43.50	-20.75
219.15	S	Peak	37.60	-9.28	28.32	46.00	-17.68
251.16	S	Peak	32.95	-7.89	25.06	46.00	-20.94
388.90	S	Peak	32.62	-4.29	28.33	46.00	-17.67
546.04	S	Peak	27.78	-1.55	26.23	46.00	-19.77
692.51	S	Peak	25.87	1.47	27.34	46.00	-18.66

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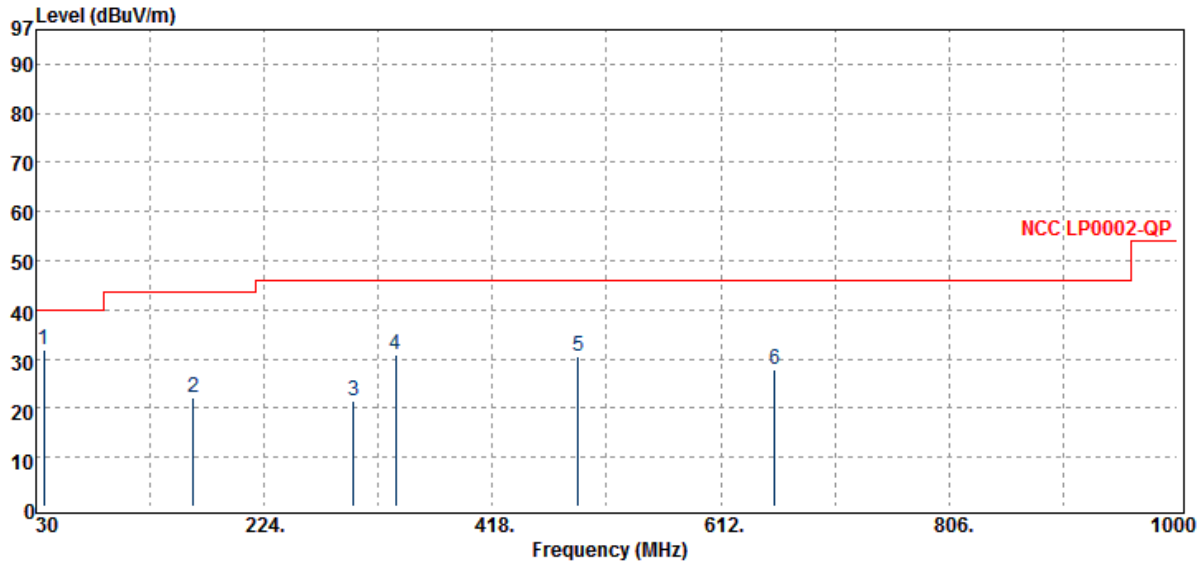
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802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以下) (最差模式) (5725MHz-5850MHz)

Operation Band	:802.11aB4	Test Date	:2017-07-31
Fundamental Frequency	:5785 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	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
36.79	S	Peak	40.59	-8.84	31.75	40.00	-8.25
163.86	S	Peak	29.50	-7.45	22.05	43.50	-21.45
299.66	S	Peak	27.49	-5.93	21.56	46.00	-24.44
335.55	S	Peak	36.28	-5.32	30.96	46.00	-15.04
490.75	S	Peak	32.96	-2.53	30.43	46.00	-15.57
657.59	S	Peak	27.62	0.30	27.92	46.00	-18.08

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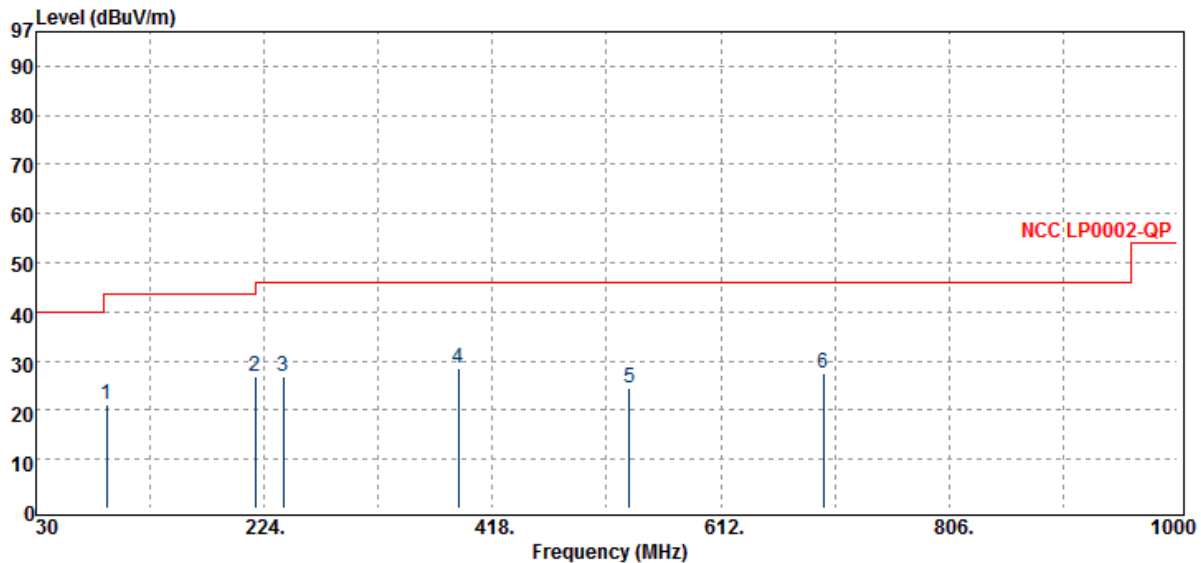
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Rx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
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	dBμV	dB	dBμV/m	dBμV/m	dB
90.14	S	Peak	34.99	-13.73	21.26	43.50	-22.24
216.24	S	Peak	36.44	-9.43	27.01	46.00	-18.99
240.49	S	Peak	34.86	-8.04	26.82	46.00	-19.18
388.90	S	Peak	32.97	-4.29	28.68	46.00	-17.32
534.40	S	Peak	26.17	-1.66	24.51	46.00	-21.49
699.30	S	Peak	25.97	1.44	27.41	46.00	-18.59

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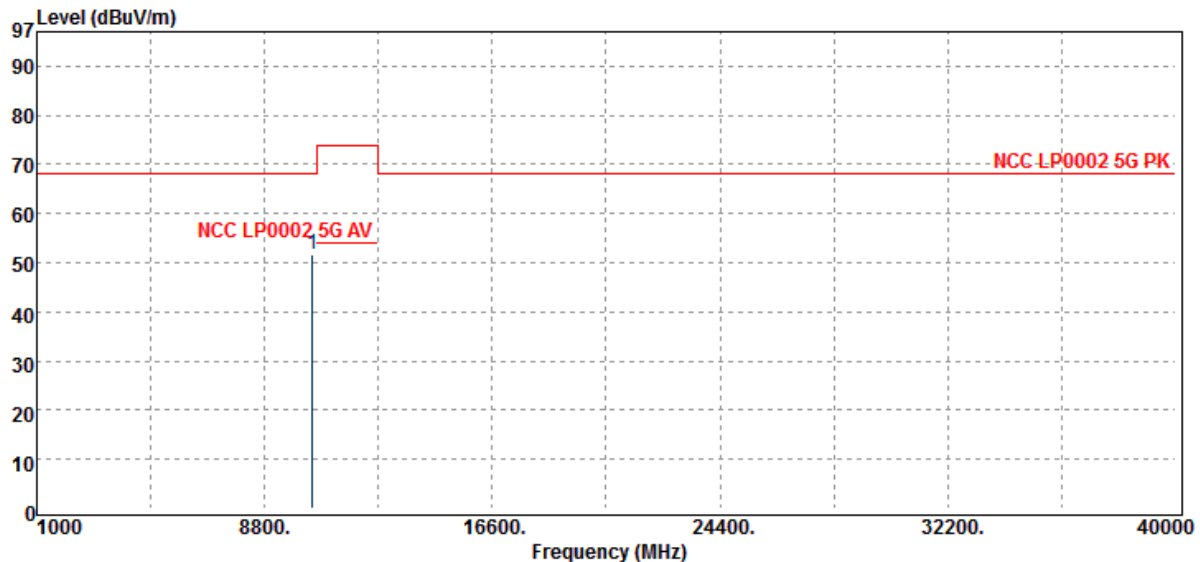
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802.11a / 6Mbps 接收模式 1GHz 以上測試 (最差模式) (5150MHz-5250MHz)

Operation Band	:802.11aB1	Test Date	:2017-07-31
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10440.00	H	Peak	33.01	18.69	51.70	68.30	-16.60

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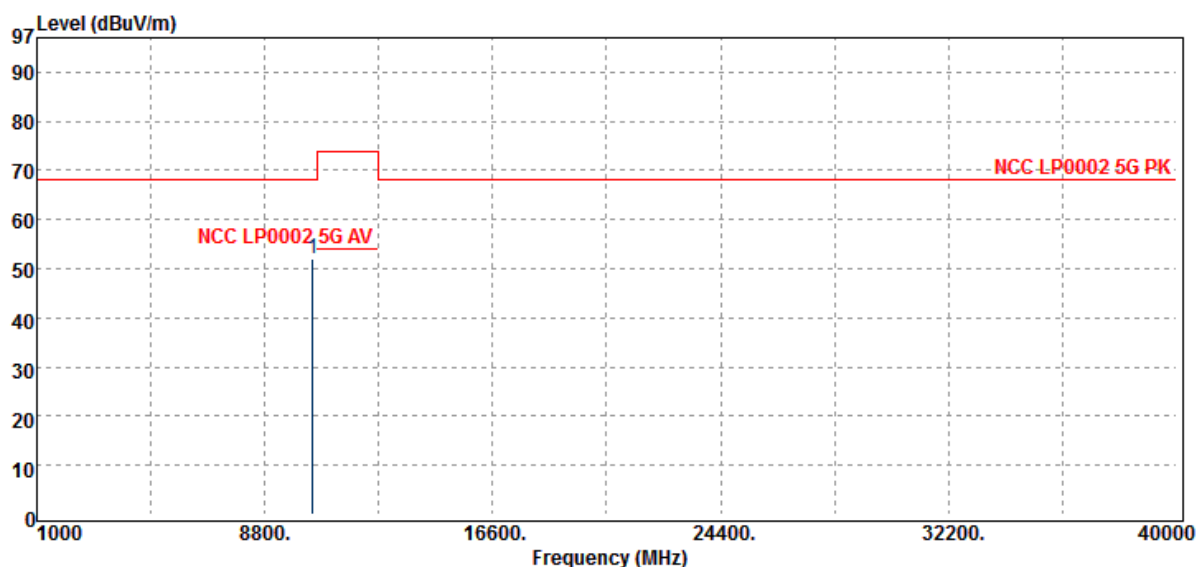
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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Rx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10440.00	H	Peak	33.21	18.69	51.90	68.30	-16.40

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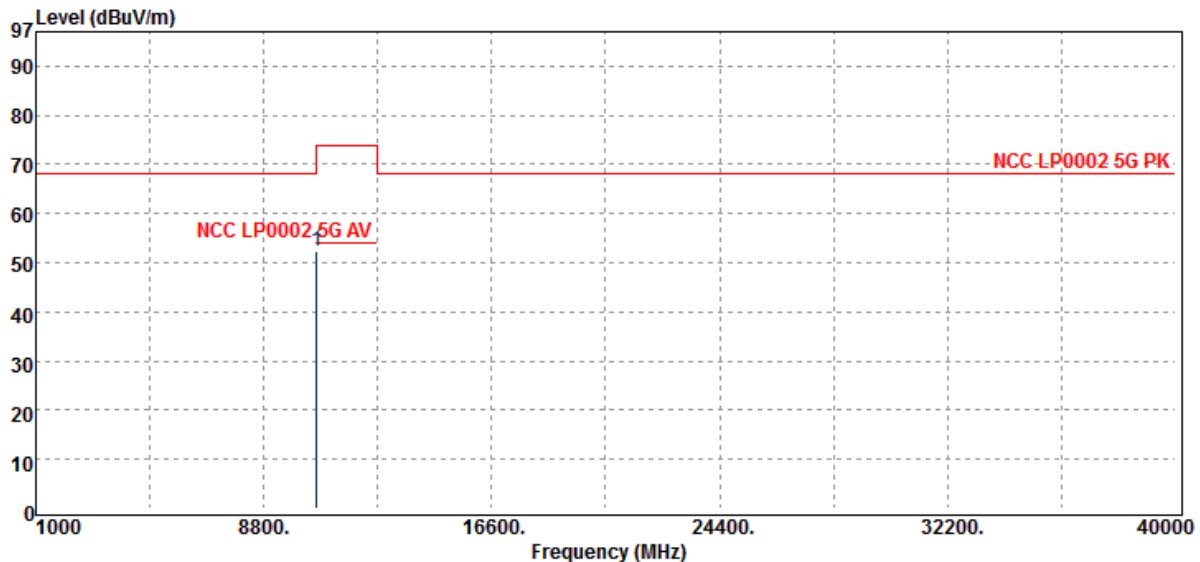
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802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以上) (最差模式) (5250MHz- 5350MHz)

Operation Band	:802.11aB2	Test Date	:2017-07-31
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10600.00	H	Peak	33.37	18.91	52.28	74.00	-21.72

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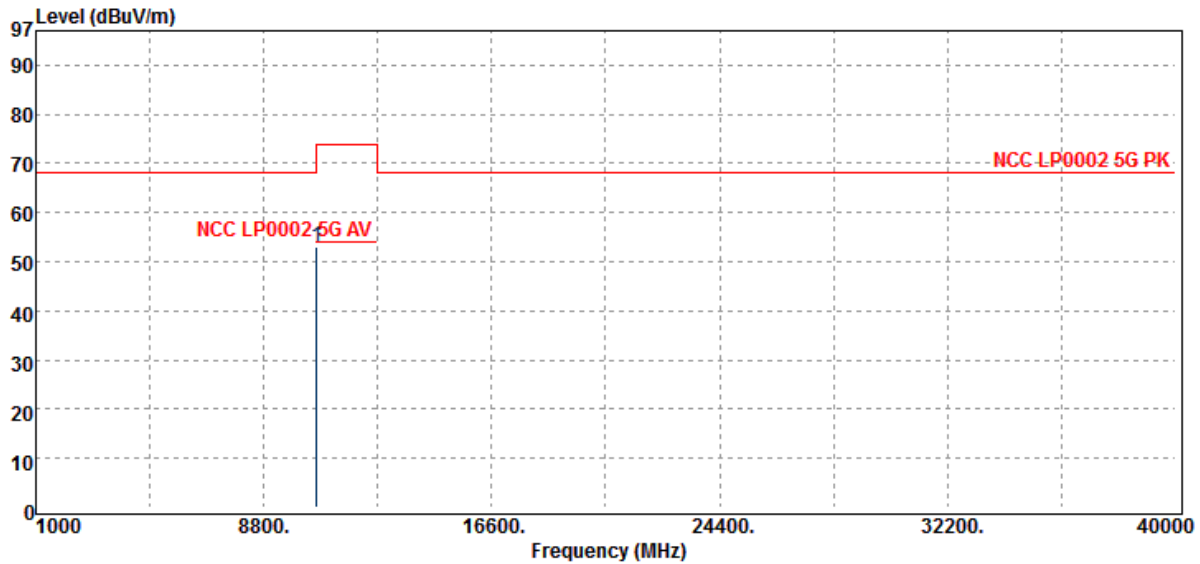
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Rx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10600.00	H	Peak	34.02	18.91	52.93	74.00	-21.07

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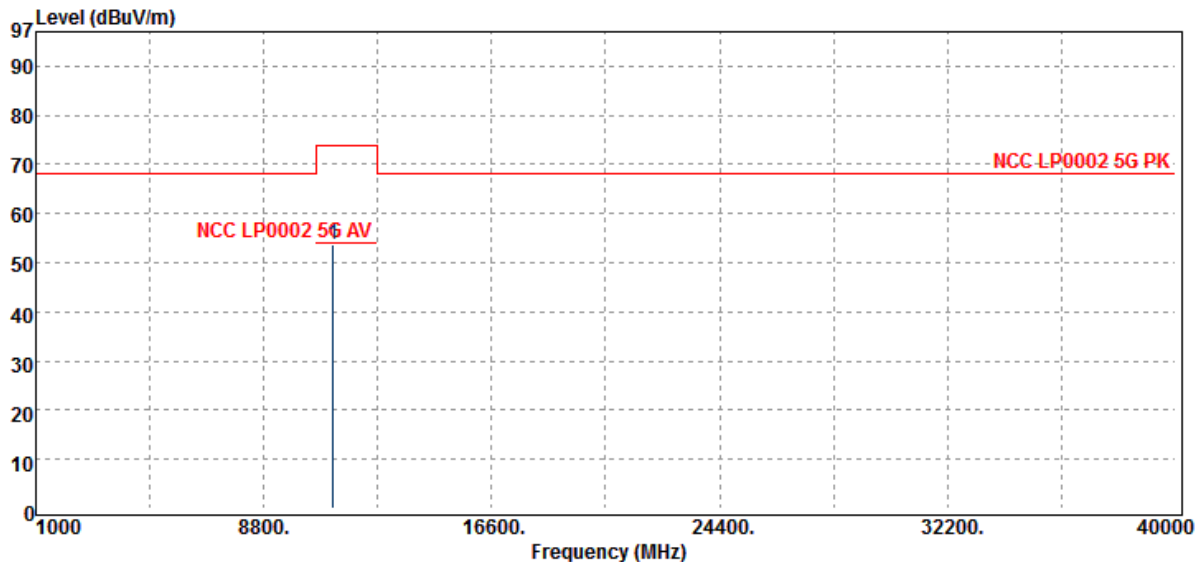
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802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以上) (最差模式) (5470MHz-5725MHz)

Operation Band	:802.11aB3	Test Date	:2017-07-31
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Peak	33.38	20.44	53.82	74.00	-20.18

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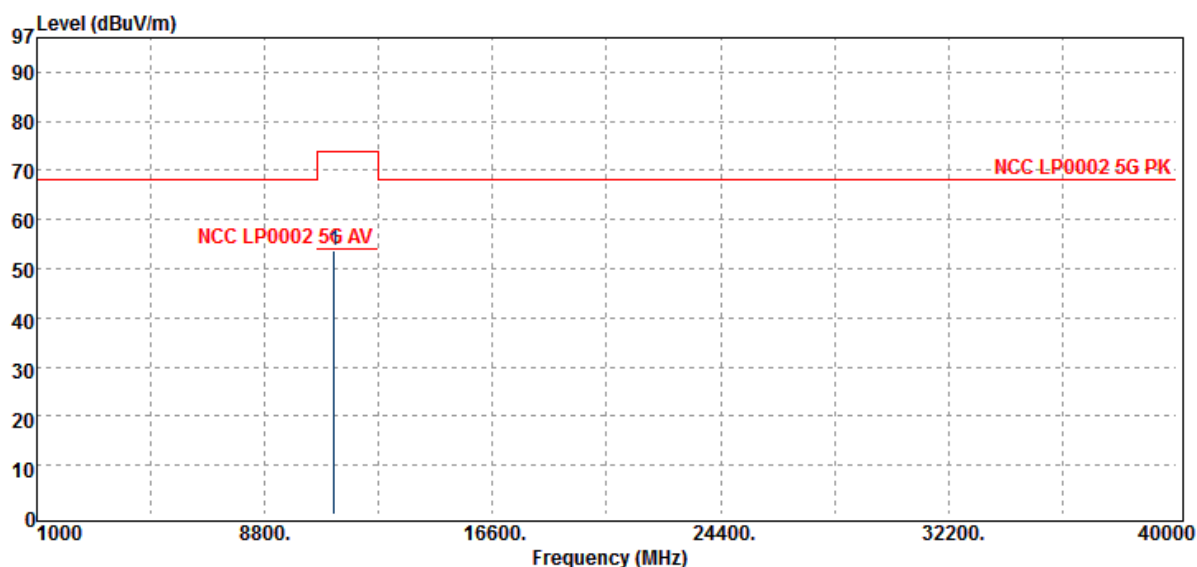
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Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Rx CH MID
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Peak	33.32	20.44	53.76	74.00	-20.24

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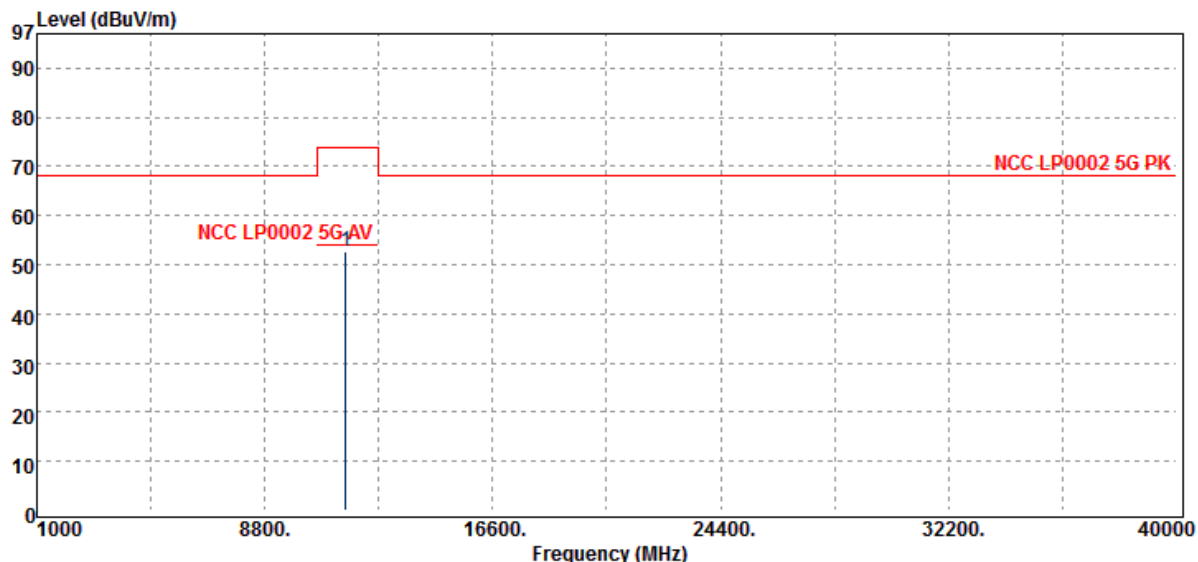
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802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以上) (最差模式) (5725MHz-5850MHz)

Operation Band	:802.11aB4	Test Date	:2017-07-31
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11570.00	H	Peak	32.07	20.58	52.65	74.00	-21.35

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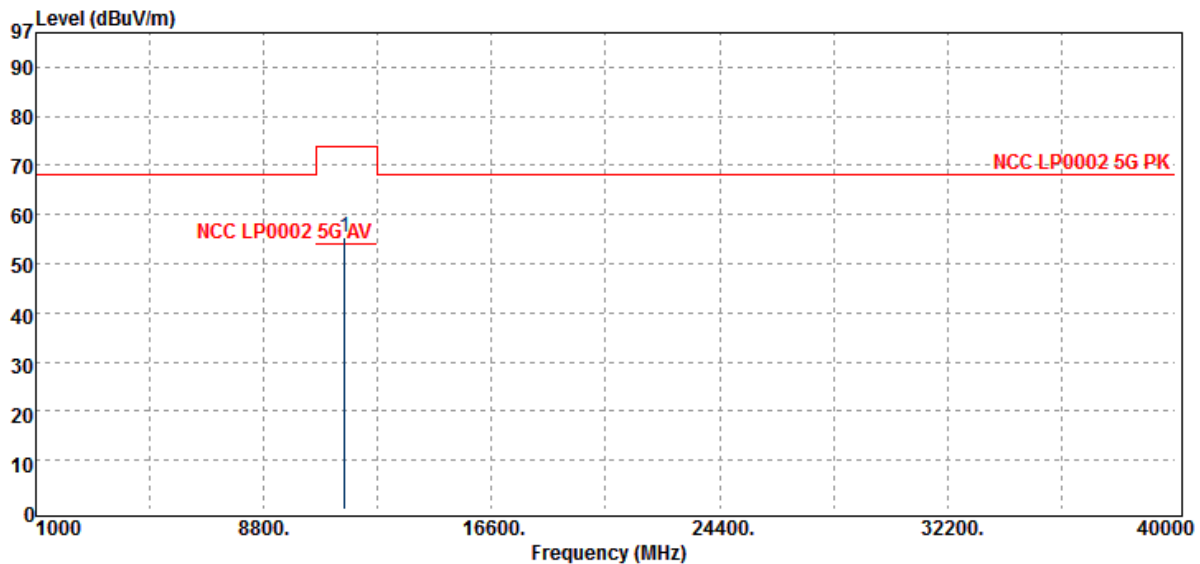
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Rx CH MID
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11570.00	H	Peak	34.88	20.58	55.46	74.00	-18.54

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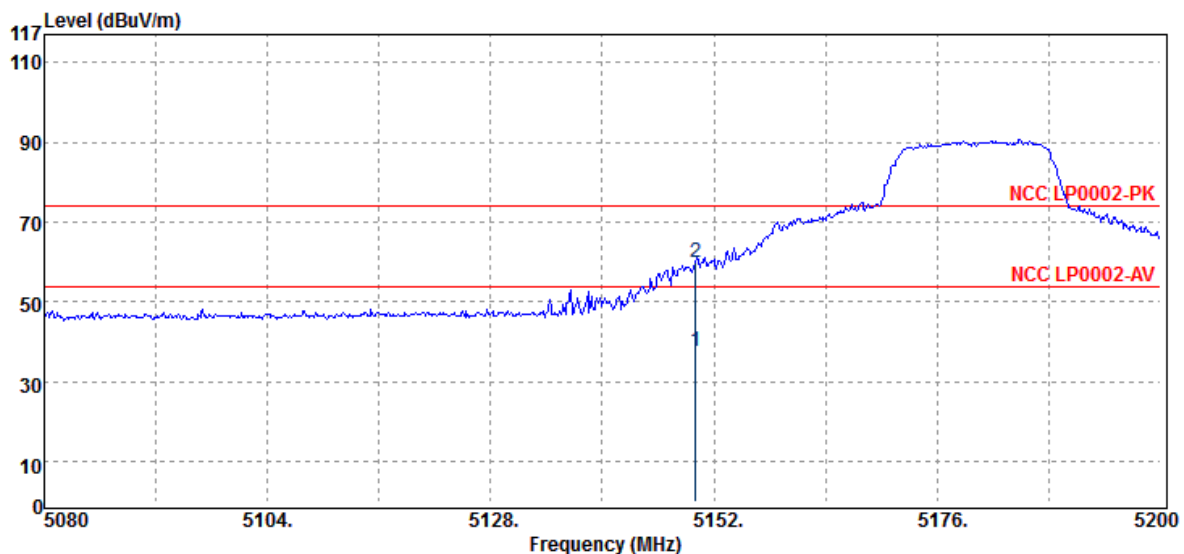
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6.6 放頻帶邊緣量測結果

頻帶外發射輻射量測值 (802.11a) (5150MHz-5250MHz)

Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	31.82	5.88	37.70	54.00	-16.30
5150.00	E	Peak	54.10	5.88	59.98	74.00	-14.02

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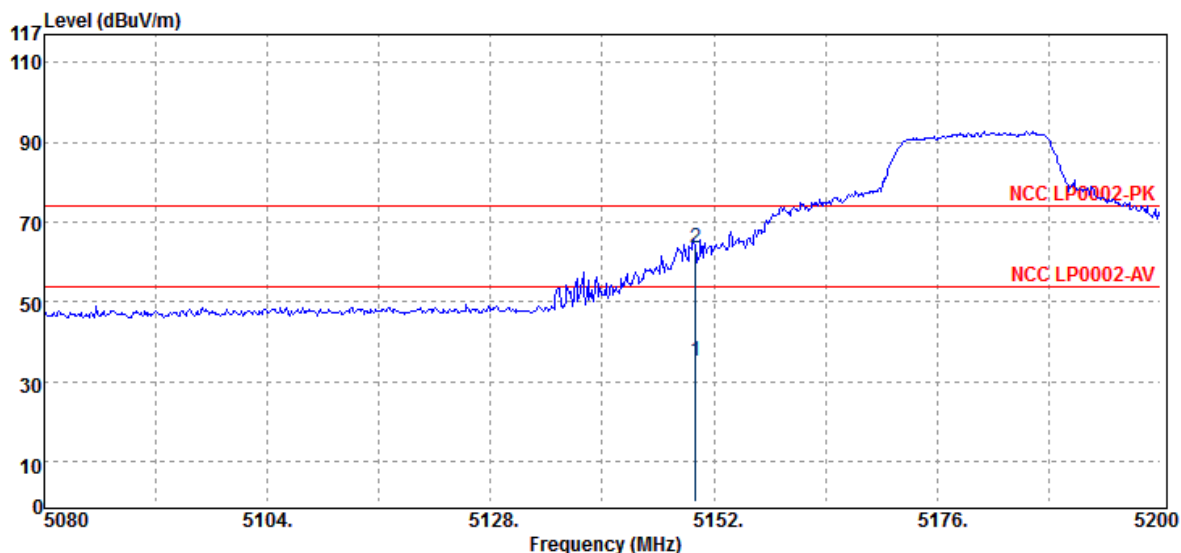
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Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	29.50	5.88	35.38	54.00	-18.62
5150.00	E	Peak	57.66	5.88	63.54	74.00	-10.46

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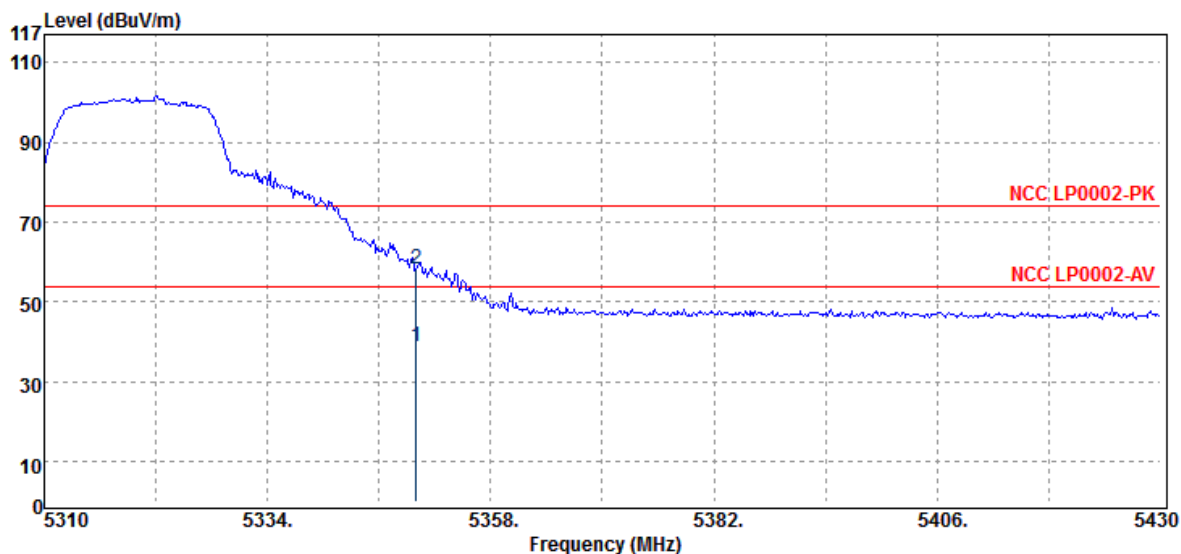
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頻帶外發射輻射量測值 (802.11a) (5250MHz-5350MHz)

Operation Band :802.11aB2
Fundamental Frequency :5320 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5350.00	E	Average	32.64	6.16	38.80	54.00	-15.20
5350.00	E	Peak	52.16	6.16	58.32	74.00	-15.68

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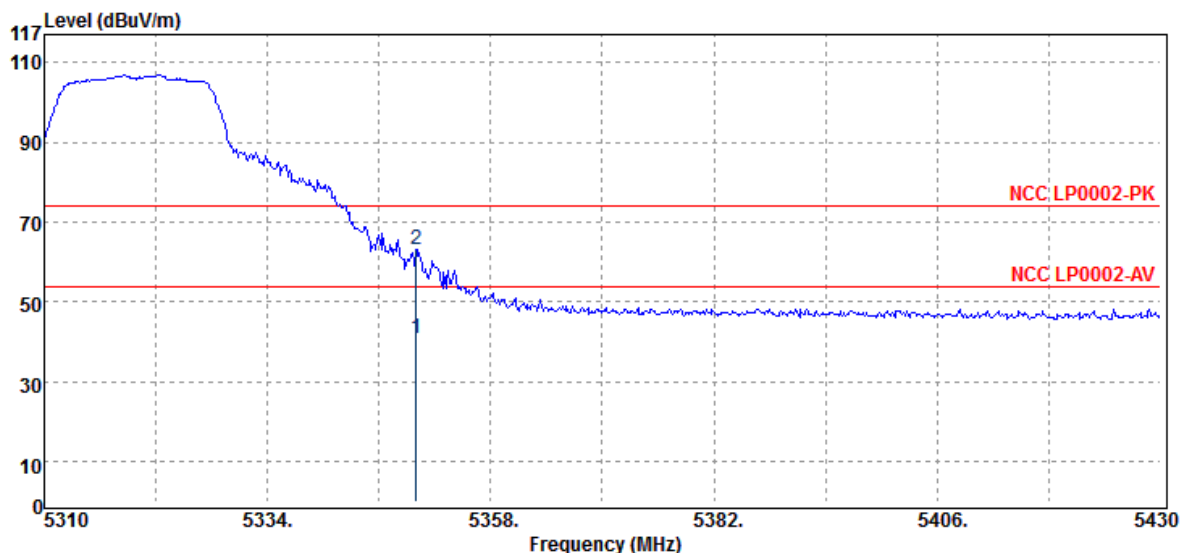
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	34.66	6.16	40.82	54.00	-13.18
5350.00	E	Peak	57.06	6.16	63.22	74.00	-10.78

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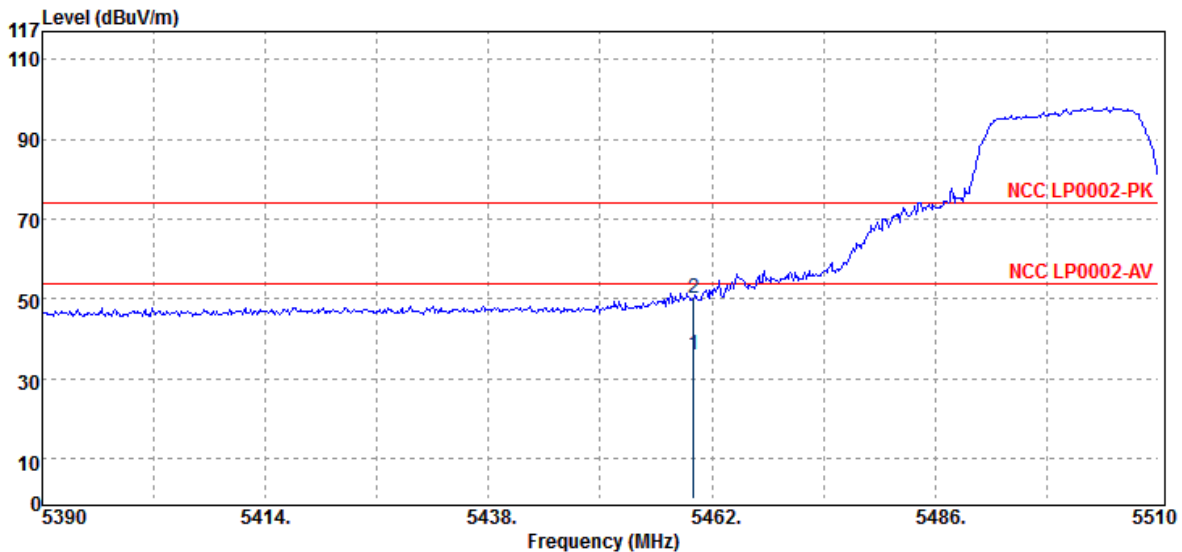
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頻帶外發射輻射量測值 (802.11a) (5470MHz-5725MHz)

Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	29.90	6.23	36.13	54.00	-17.87
5460.00	E	Peak	43.83	6.23	50.06	74.00	-23.94

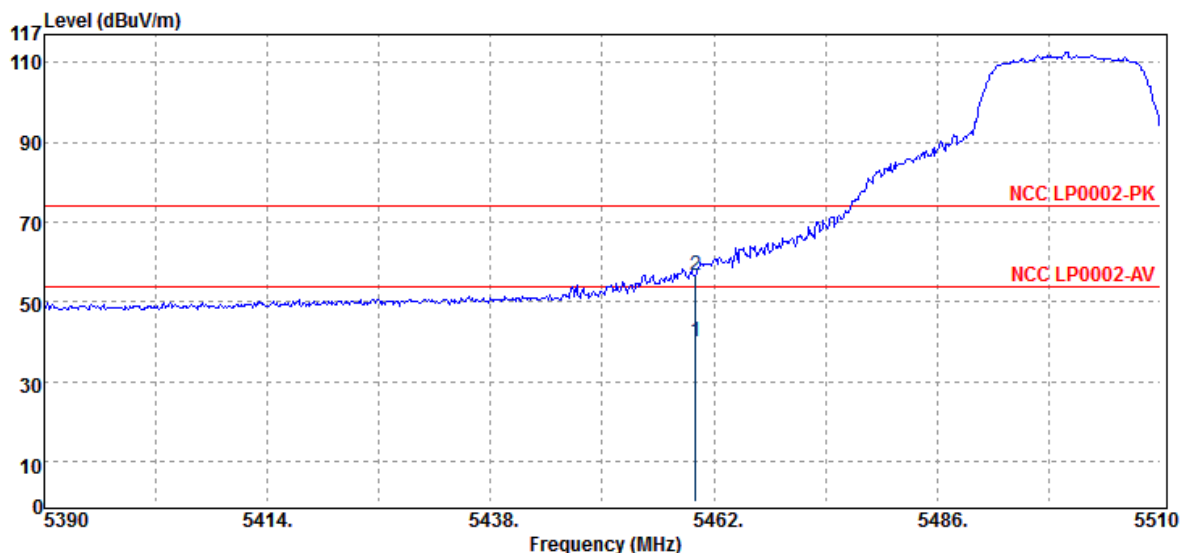
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode			Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	33.83	6.23	40.06	54.00	-13.94
5460.00	E	Peak	50.52	6.23	56.75	74.00	-17.25

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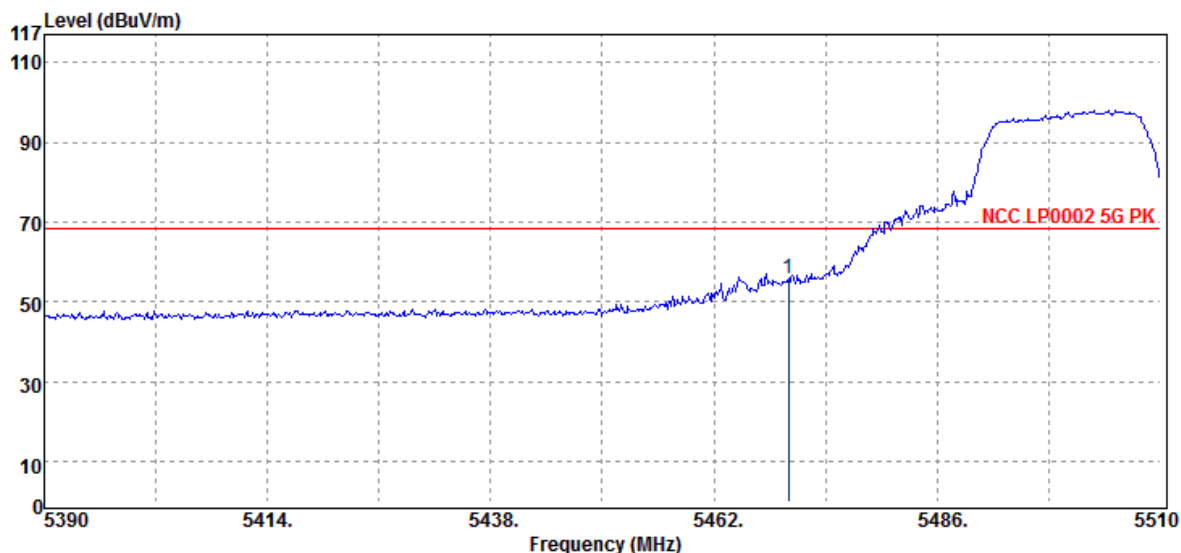
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Operation Band :802.11aB3
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	49.75	6.26	56.01	68.30	-12.29

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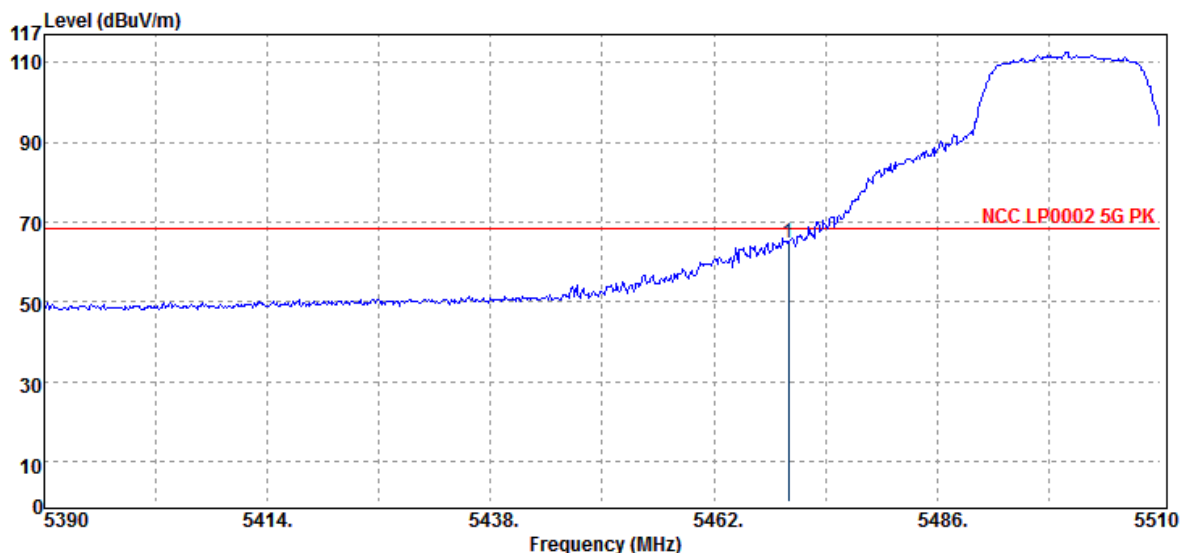
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	58.70	6.26	64.96	68.30	-3.34

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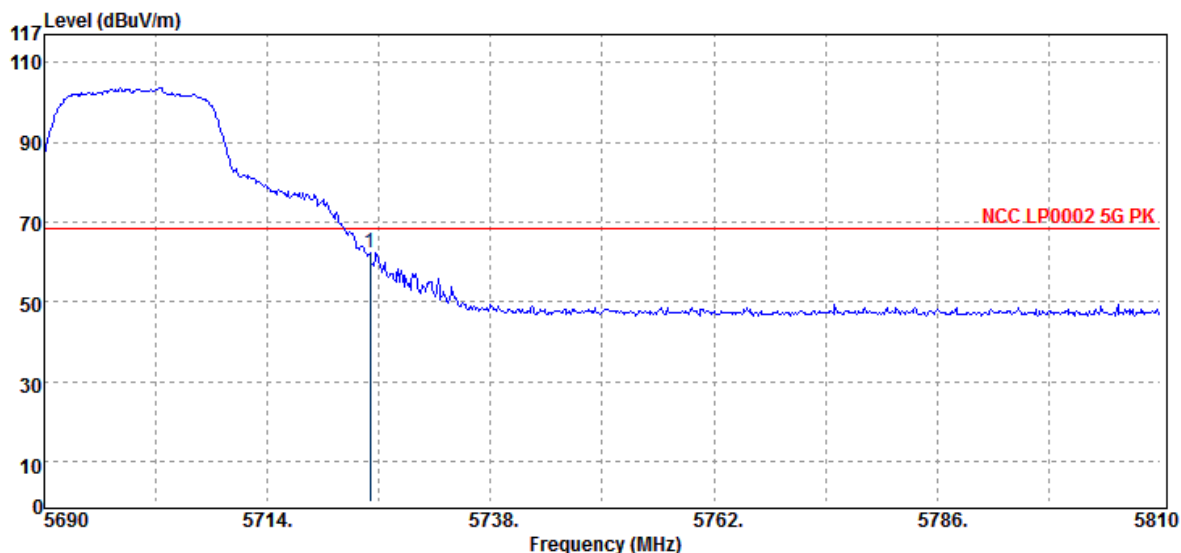
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	55.74	6.59	62.33	68.30	-5.97

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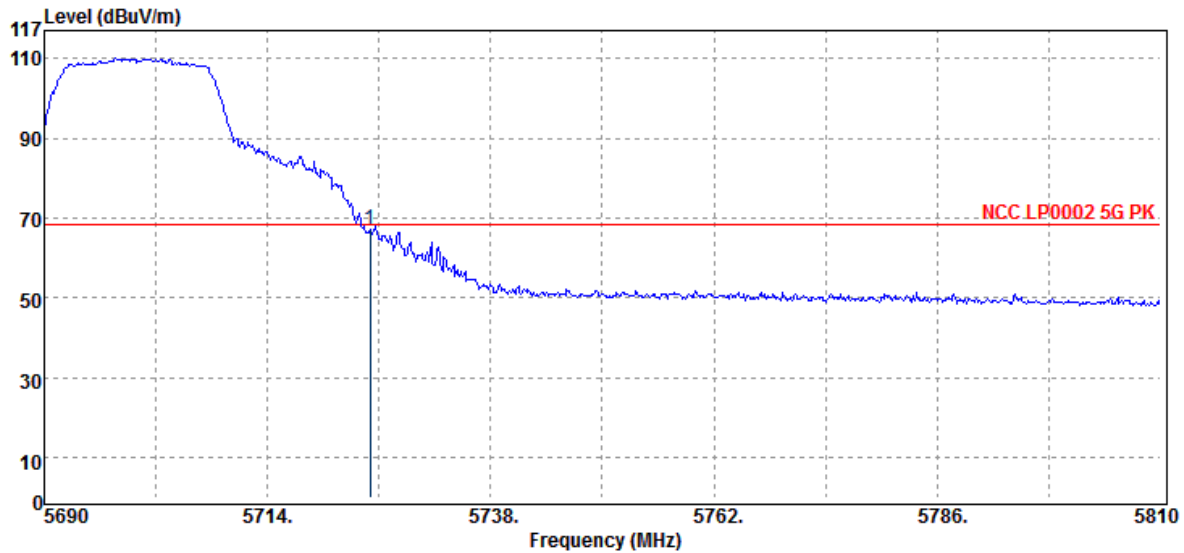
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	60.75	6.59	67.34	68.30	-0.96

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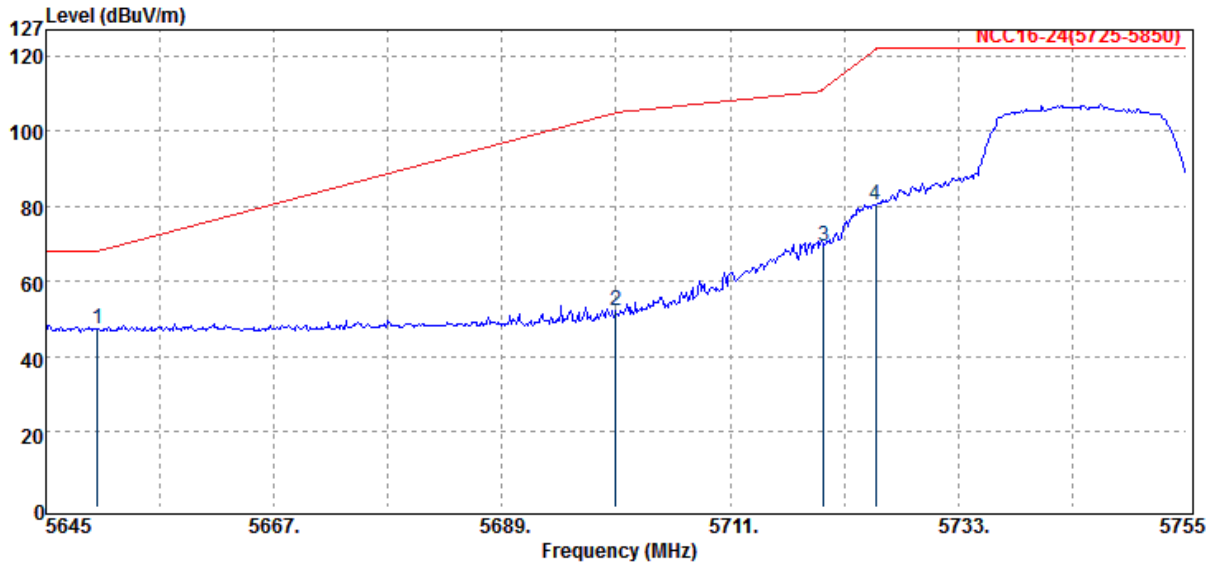
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頻帶外發射輻射量測值 (802.11a) (5725MHz-5850MHz)

Operation Band	:802.11aB4	Test Date	:2017-07-31
Fundamental Frequency	:5745 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	E	Peak	41.06	6.48	47.54	68.23	-20.69
5700.00	E	Peak	45.48	6.67	52.15	105.23	-53.08
5720.00	E	Peak	62.73	6.60	69.33	110.83	-41.50
5725.00	E	Peak	73.96	6.59	80.55	122.23	-41.68

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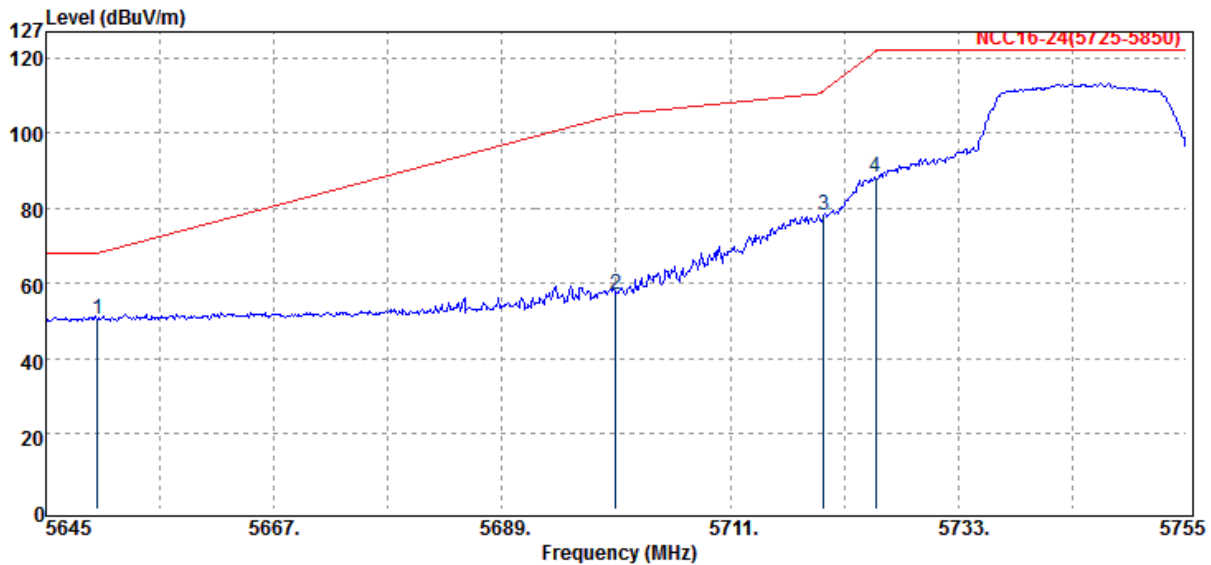
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Operation Band :802.11aB4
Fundamental Frequency :5745 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	E	Peak	44.10	6.48	50.58	68.23	-17.65
5700.00	E	Peak	50.45	6.67	57.12	105.23	-48.11
5720.00	E	Peak	71.74	6.60	78.34	110.83	-32.49
5725.00	E	Peak	81.72	6.59	88.31	122.23	-33.92

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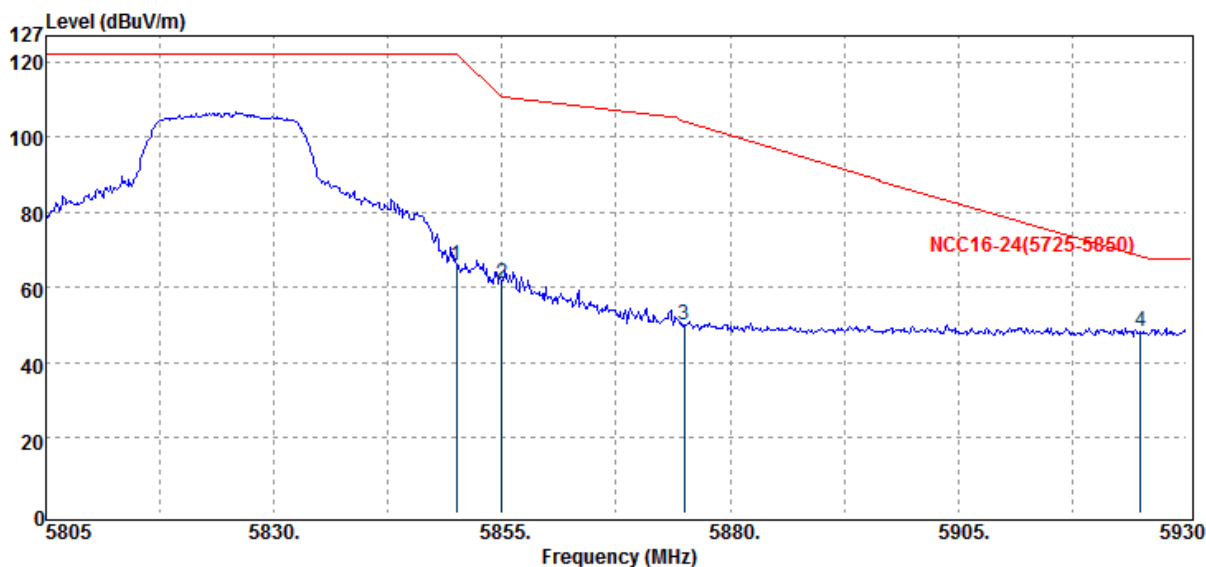
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Operation Band :802.11aB4
Fundamental Frequency :5825 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	58.48	7.28	65.76	122.23	-56.47
5855.00	E	Peak	53.70	7.32	61.02	110.83	-49.81
5875.00	E	Peak	42.85	7.37	50.22	105.23	-55.01
5925.00	E	Peak	40.97	7.39	48.36	68.23	-19.87

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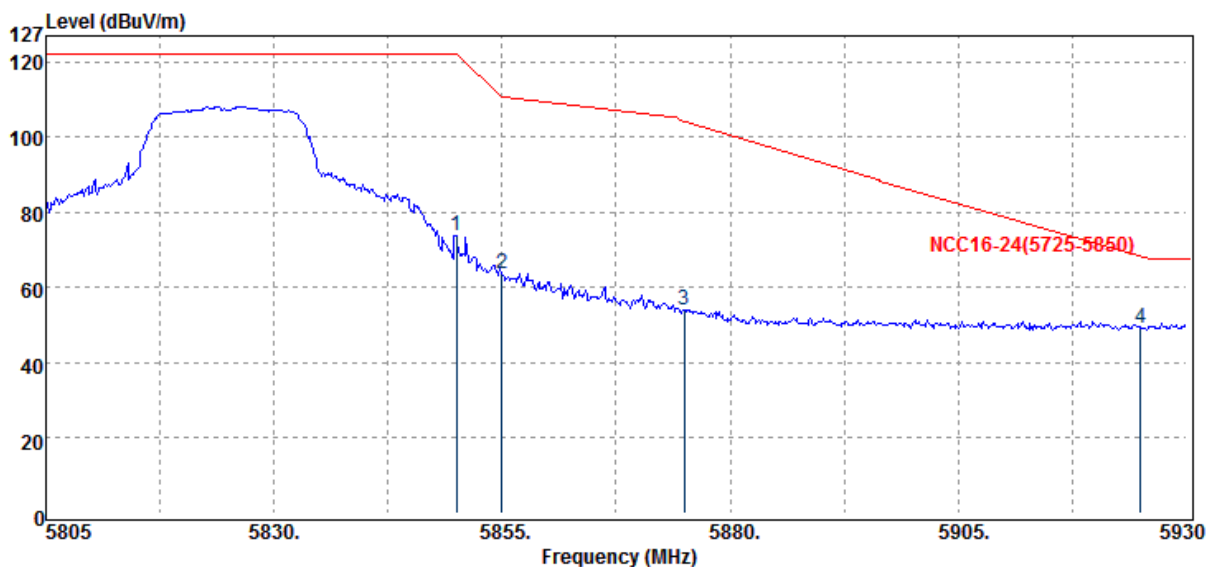
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Operation Band :802.11aB4
Fundamental Frequency :5825 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	66.57	7.28	73.85	122.23	-48.38
5855.00	E	Peak	56.32	7.32	63.64	110.83	-47.19
5875.00	E	Peak	46.79	7.37	54.16	105.23	-51.07
5925.00	E	Peak	42.03	7.39	49.42	68.23	-18.81

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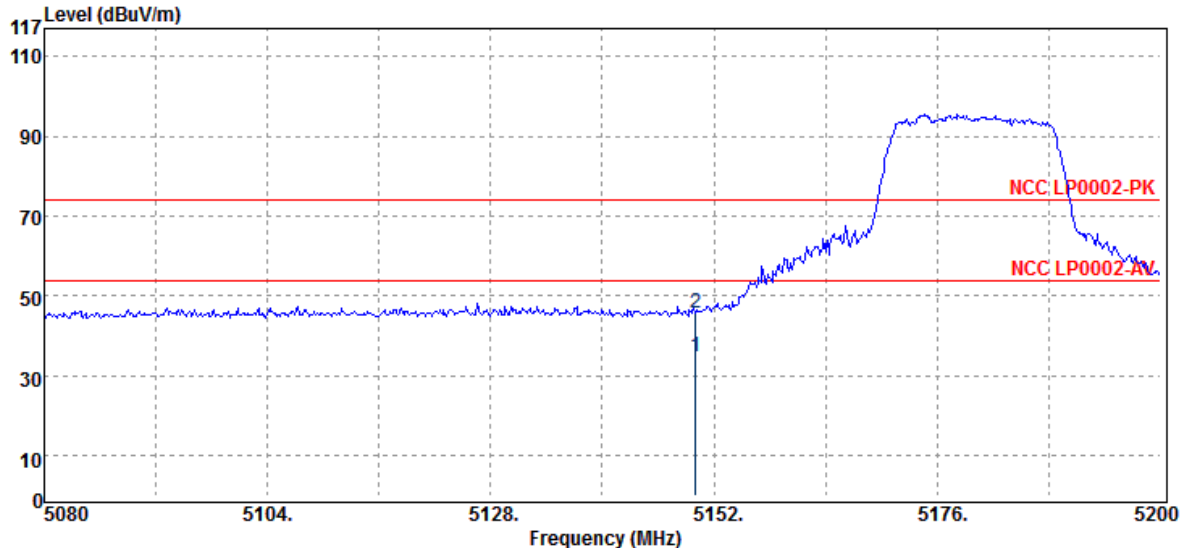
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頻帶外發射輻射量測值 (802.11n HT20) (5150MHz-5250MHz)

Operation Band	:802.11n20B1	Test Date	:2017-07-31
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	28.97	5.88	34.85	54.00	-19.15
5150.00	E	Peak	39.83	5.88	45.71	74.00	-28.29

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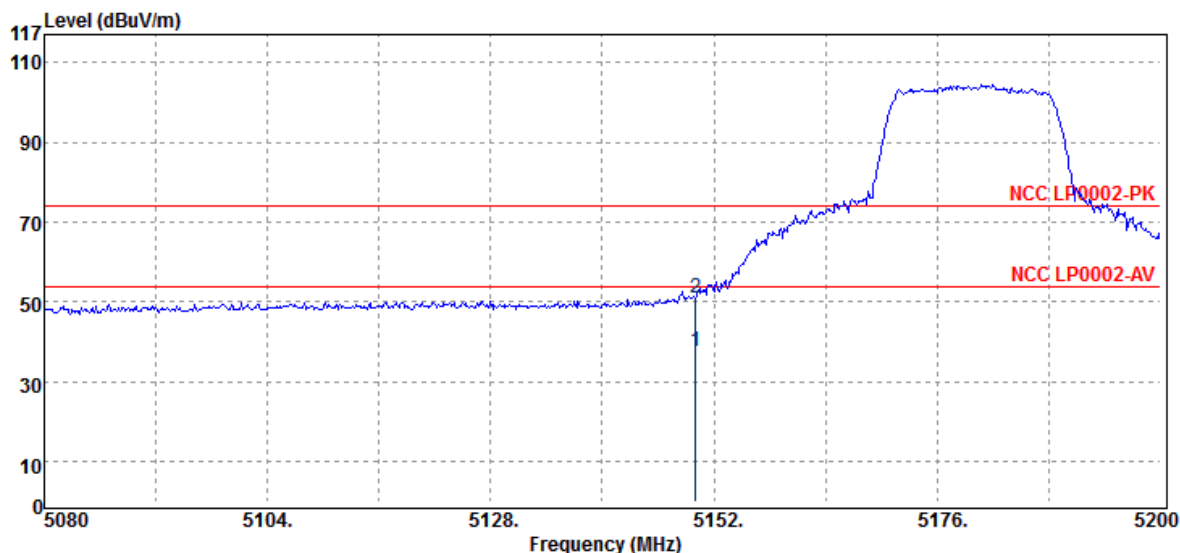
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Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	31.96	5.88	37.84	54.00	-16.16
5150.00	E	Peak	45.28	5.88	51.16	74.00	-22.84

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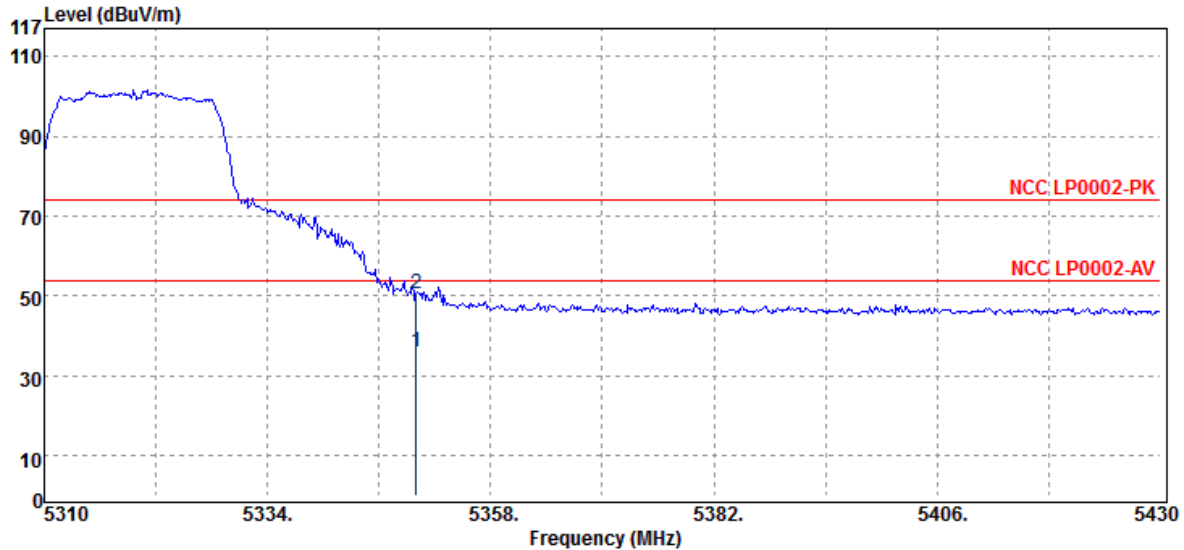
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頻帶外發射輻射量測值 (802.11n HT20) (5250MHz-5350MHz)

Operation Band	:802.11n20B2	Test Date	:2017-07-31
Fundamental Frequency	:5320 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	30.07	6.16	36.23	54.00	-17.77
5350.00	E	Peak	44.54	6.16	50.70	74.00	-23.30

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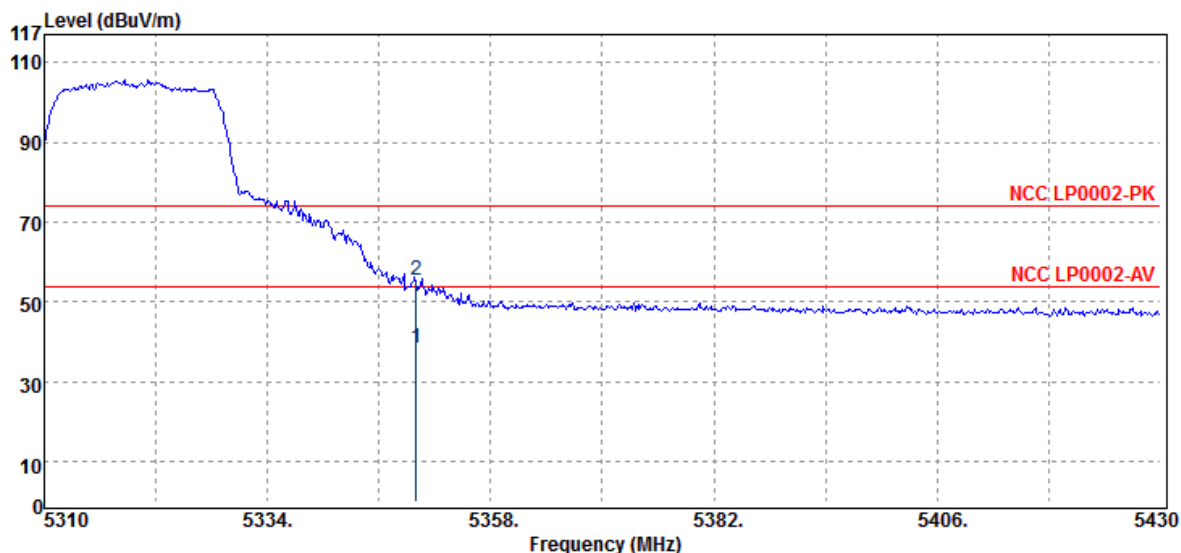
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	32.32	6.16	38.48	54.00	-15.52
5350.00	E	Peak	49.48	6.16	55.64	74.00	-18.36

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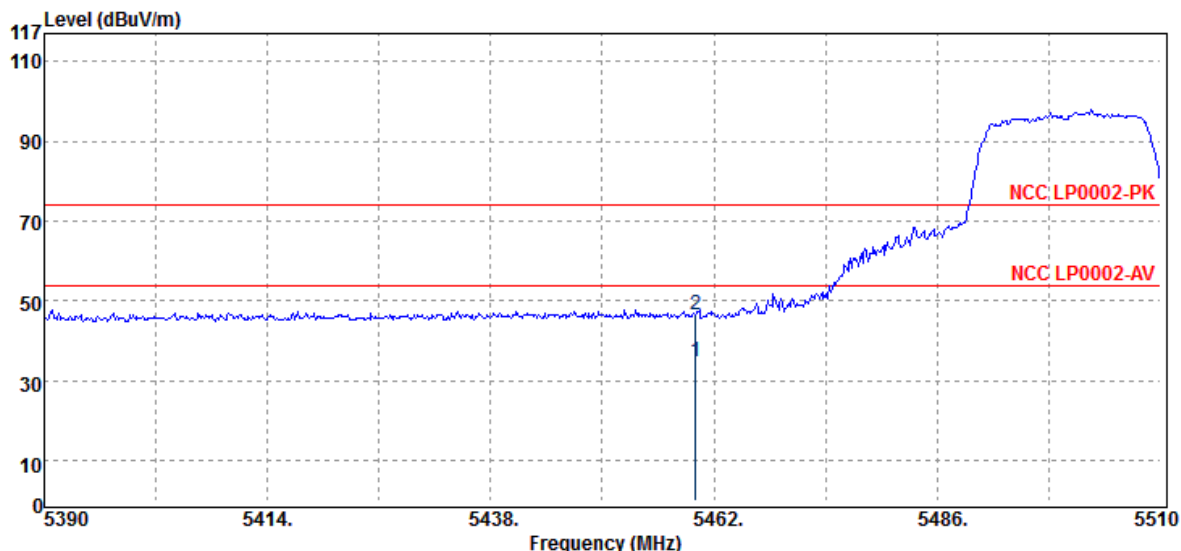
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頻帶外發射輻射量測值 (802.11n HT20) (5470MHz-5725MHz)

Operation Band	:802.11n20B3	Test Date	:2017-07-31
Fundamental Frequency	:5500 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	28.42	6.23	34.65	54.00	-19.35
5460.00	E	Peak	40.36	6.23	46.59	74.00	-27.41

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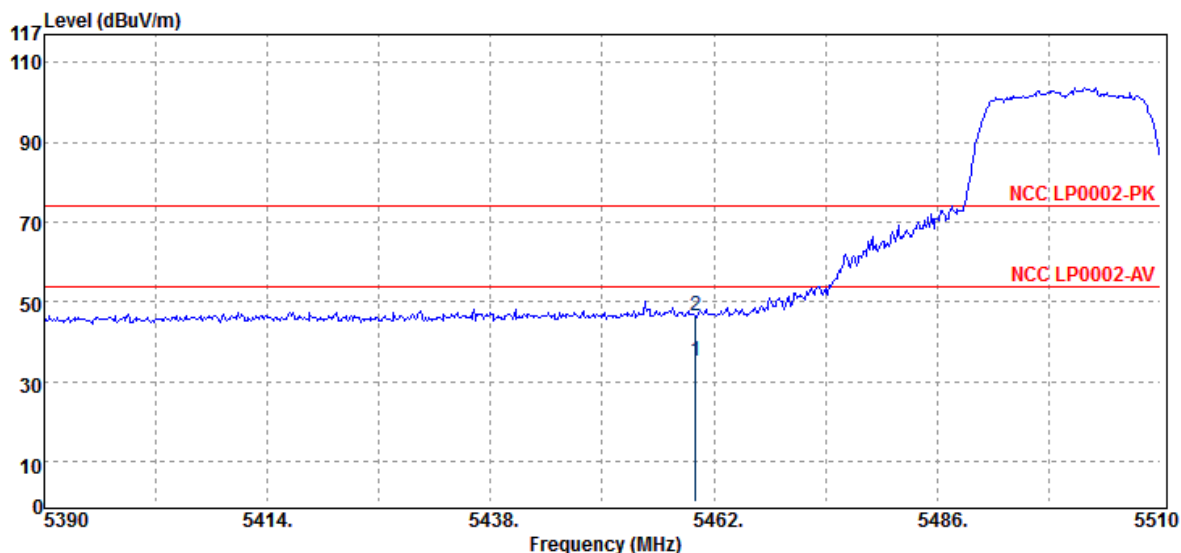
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Operation Band :802.11n20B3
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	29.06	6.23	35.29	54.00	-18.71
5460.00	E	Peak	40.47	6.23	46.70	74.00	-27.30

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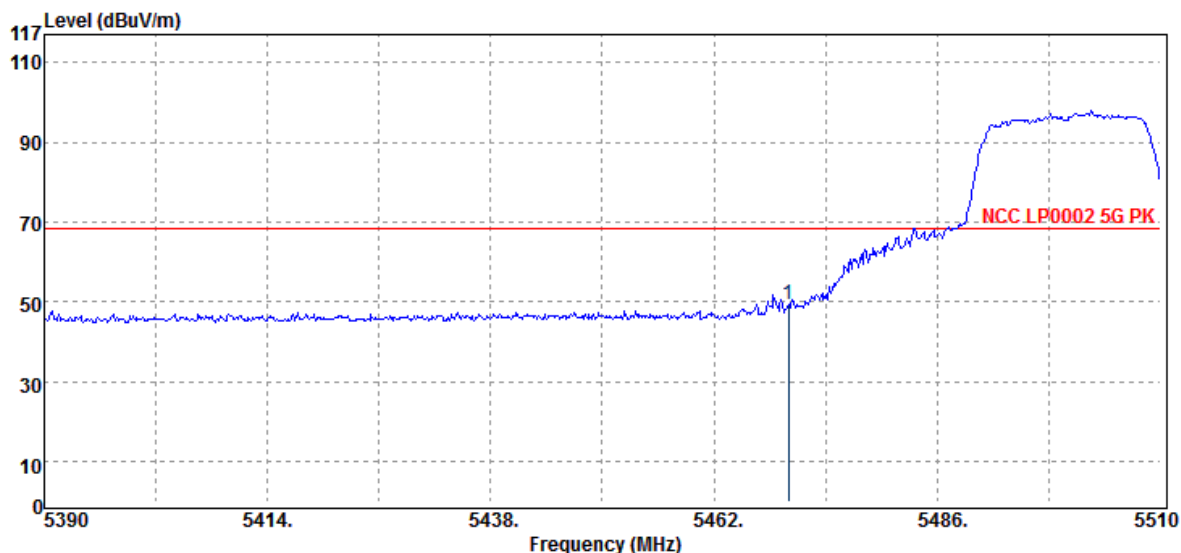
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	43.16	6.26	49.42	68.30	-18.88

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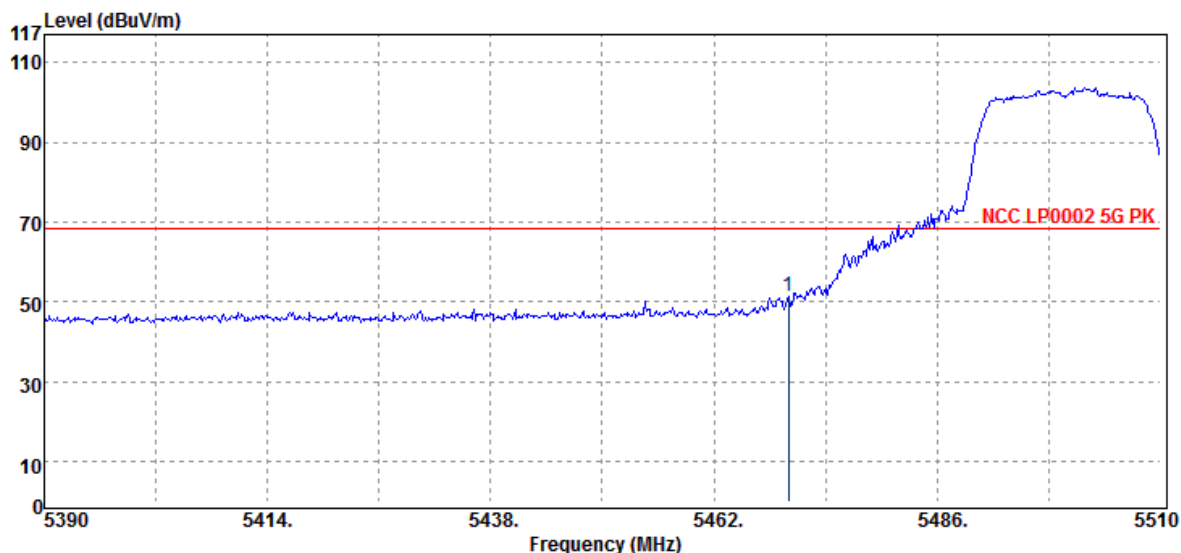
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	45.32	6.26	51.58	68.30	-16.72

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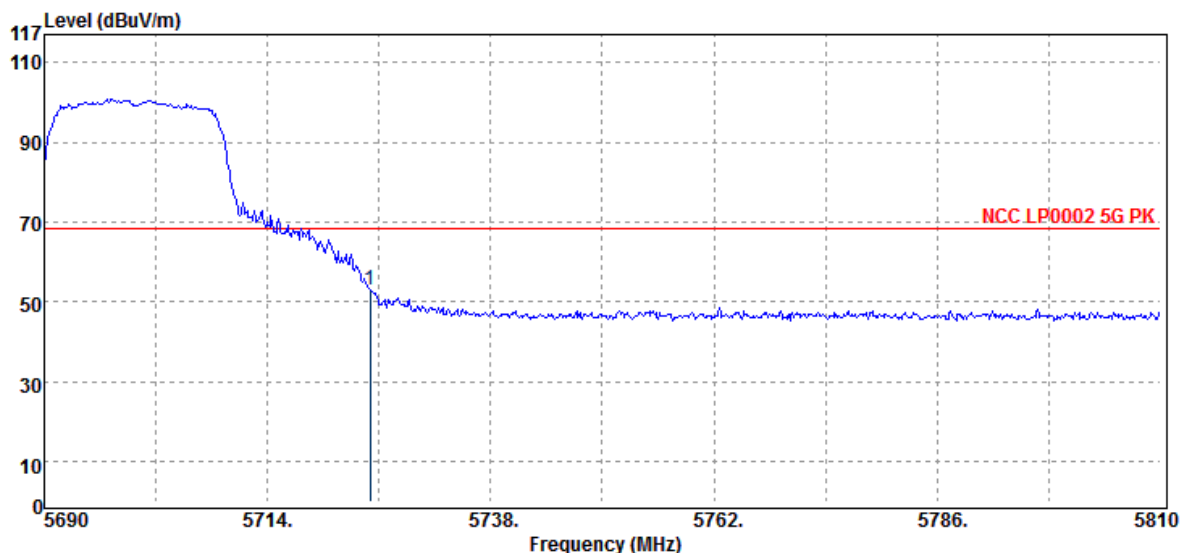
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	46.40	6.59	52.99	68.30	-15.31

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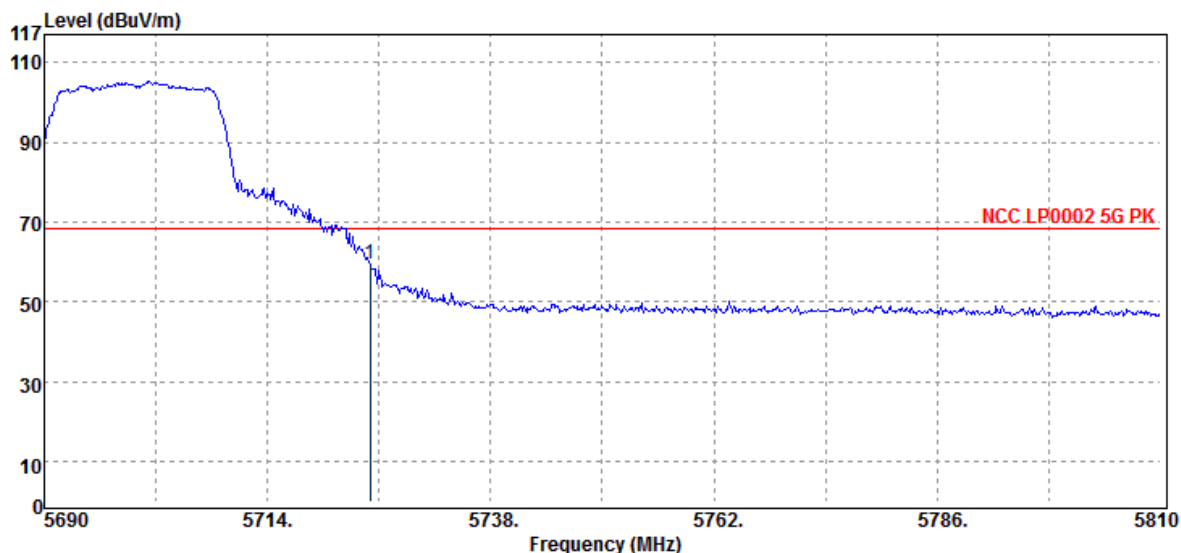
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	52.82	6.59	59.41	68.30	-8.89

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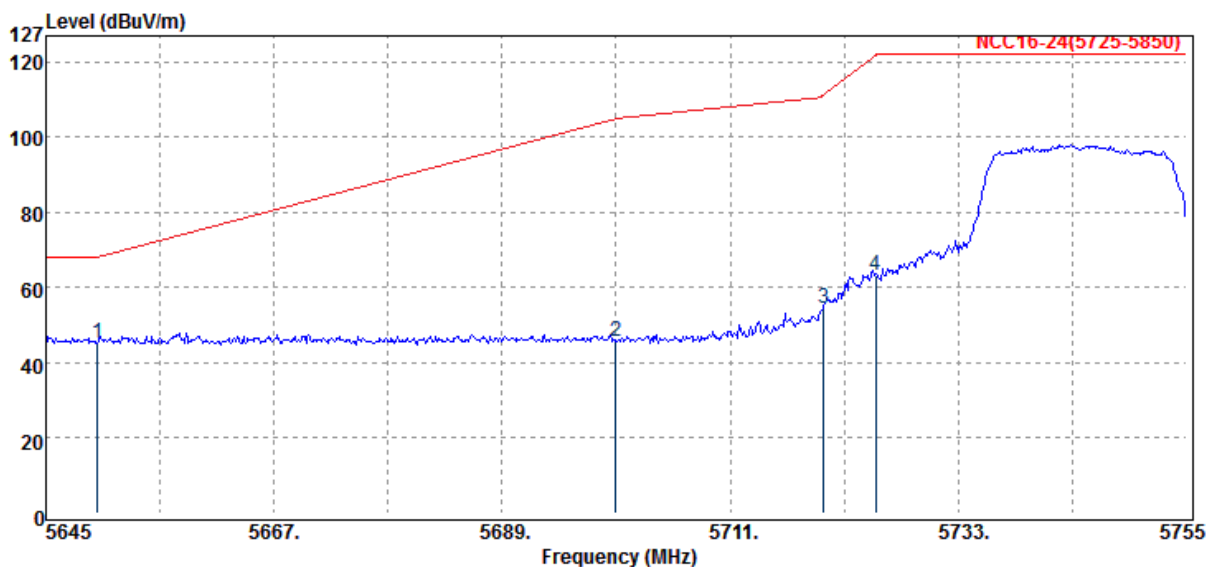
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Operation Band :802.11n20B4
Fundamental Frequency :5745 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5650.00	E	Peak	38.71	6.48	45.19	68.23	-23.04
5700.00	E	Peak	39.01	6.67	45.68	105.23	-59.55
5720.00	E	Peak	47.69	6.60	54.29	110.83	-56.54
5725.00	E	Peak	56.59	6.59	63.18	122.23	-59.05

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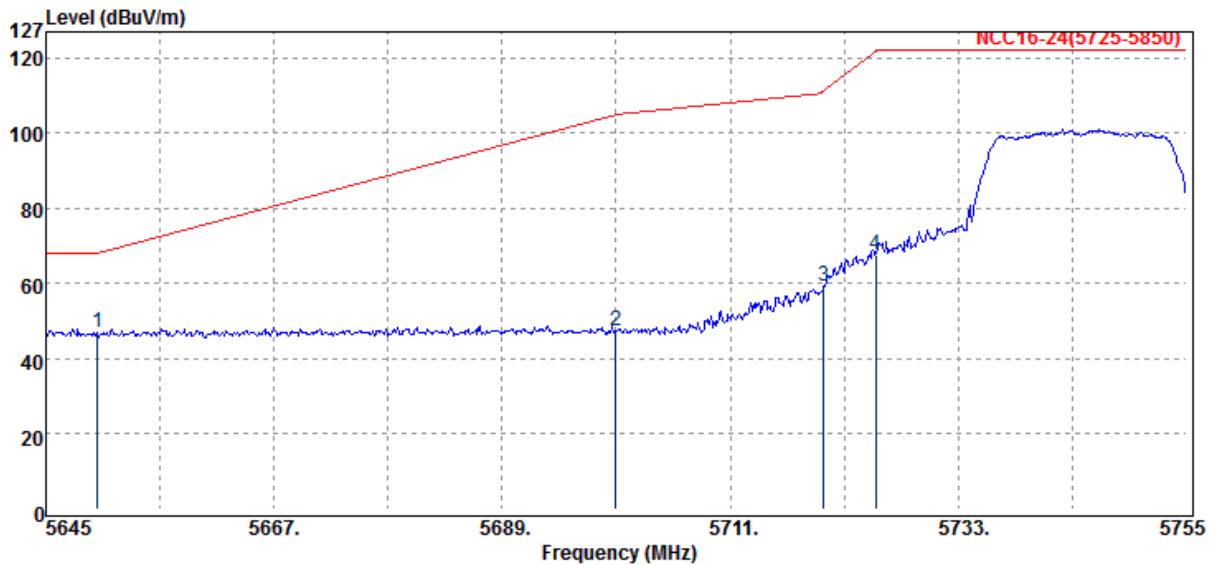
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Operation Band :802.11n20B4
Fundamental Frequency :5745 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	E	Peak	40.32	6.48	46.80	68.23	-21.43
5700.00	E	Peak	40.58	6.67	47.25	105.23	-57.98
5720.00	E	Peak	52.73	6.60	59.33	110.83	-51.50
5725.00	E	Peak	61.22	6.59	67.81	122.23	-54.42

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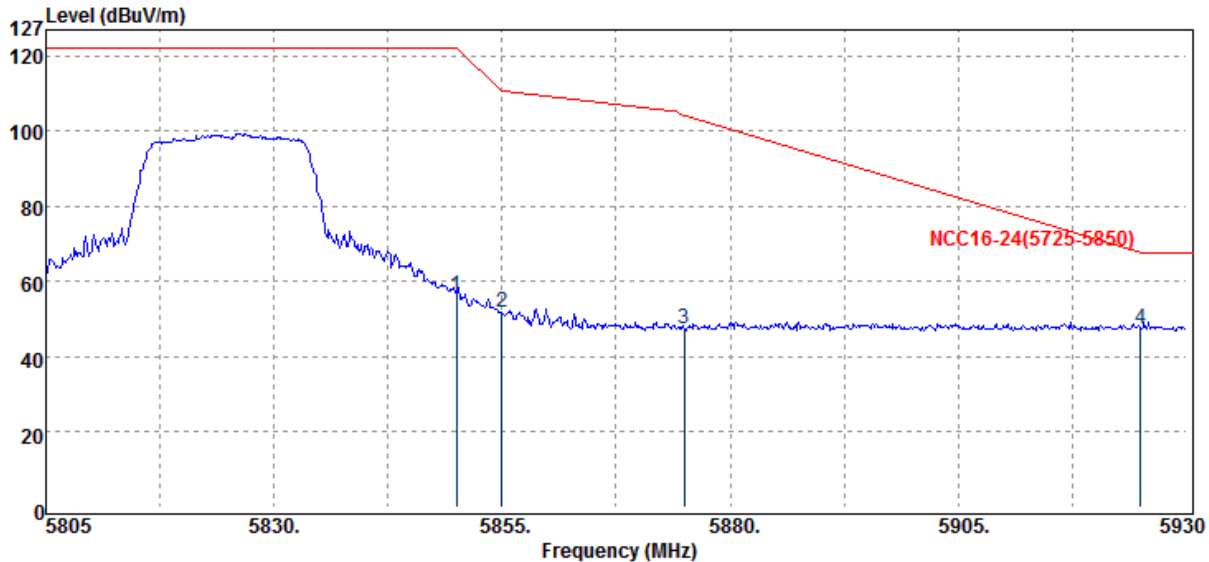
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頻帶外發射輻射量測值 (802.11n HT20) (5725MHz-5850MHz)

Operation Band	:802.11n20B4	Test Date	:2017-07-31
Fundamental Frequency	:5825 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	49.17	7.28	56.45	122.23	-65.78
5855.00	E	Peak	44.55	7.32	51.87	110.83	-58.96
5875.00	E	Peak	40.17	7.37	47.54	105.23	-57.69
5925.00	E	Peak	39.90	7.39	47.29	68.23	-20.94

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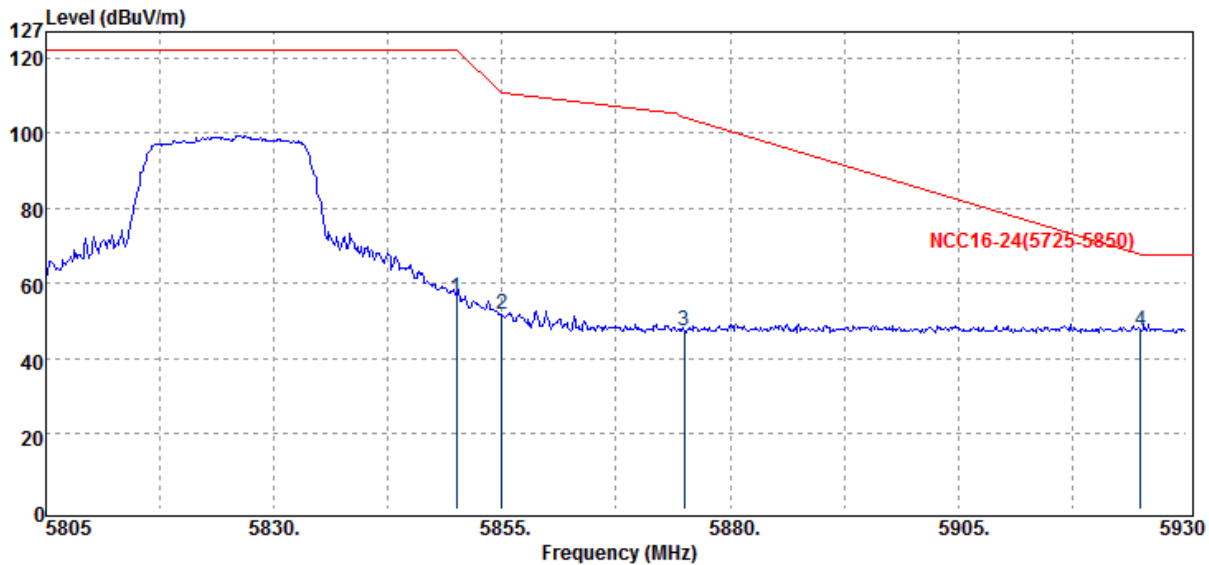
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Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	50.56	7.28	57.84	122.23	-64.39
5855.00	E	Peak	44.87	7.32	52.19	110.83	-58.64
5875.00	E	Peak	40.37	7.37	47.74	105.23	-57.49
5925.00	E	Peak	39.70	7.39	47.09	68.23	-21.14

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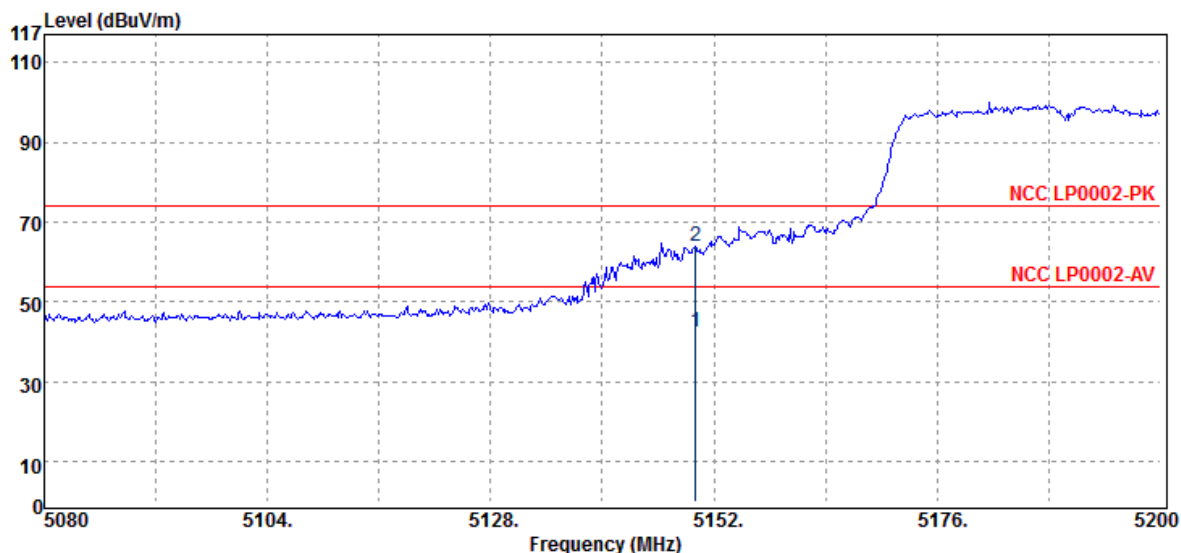
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Operation Band :802.11n40B1
Fundamental Frequency :5190 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode			Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	36.62	5.88	42.50	54.00	-11.50
5150.00	E	Peak	58.24	5.88	64.12	74.00	-9.88

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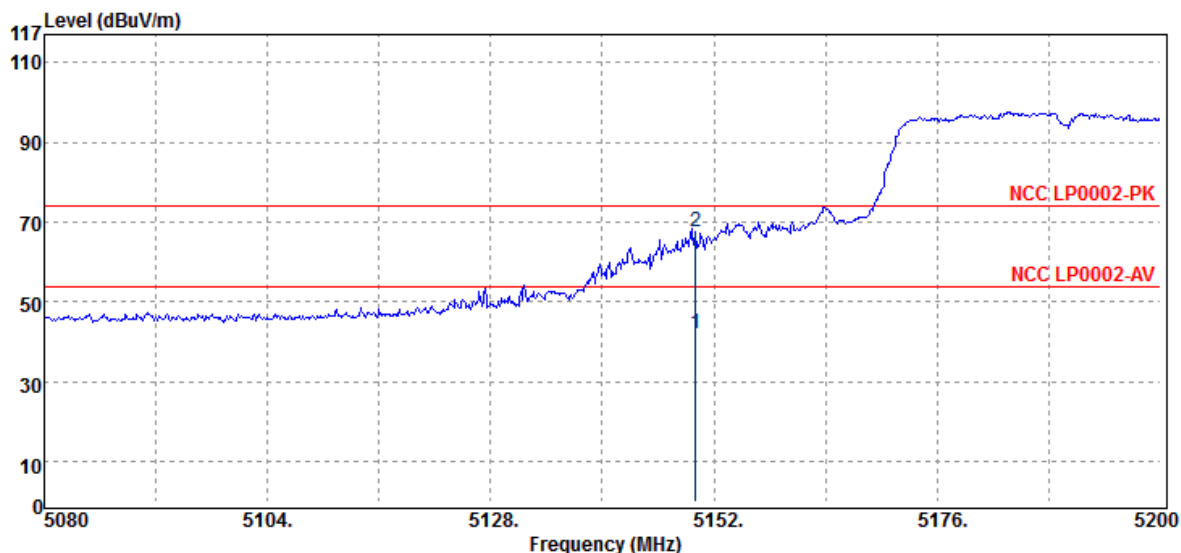
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Operation Band :802.11n40B1
 Fundamental Frequency :5190 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-07-31
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	36.10	5.88	41.98	54.00	-12.02
5150.00	E	Peak	61.72	5.88	67.60	74.00	-6.40

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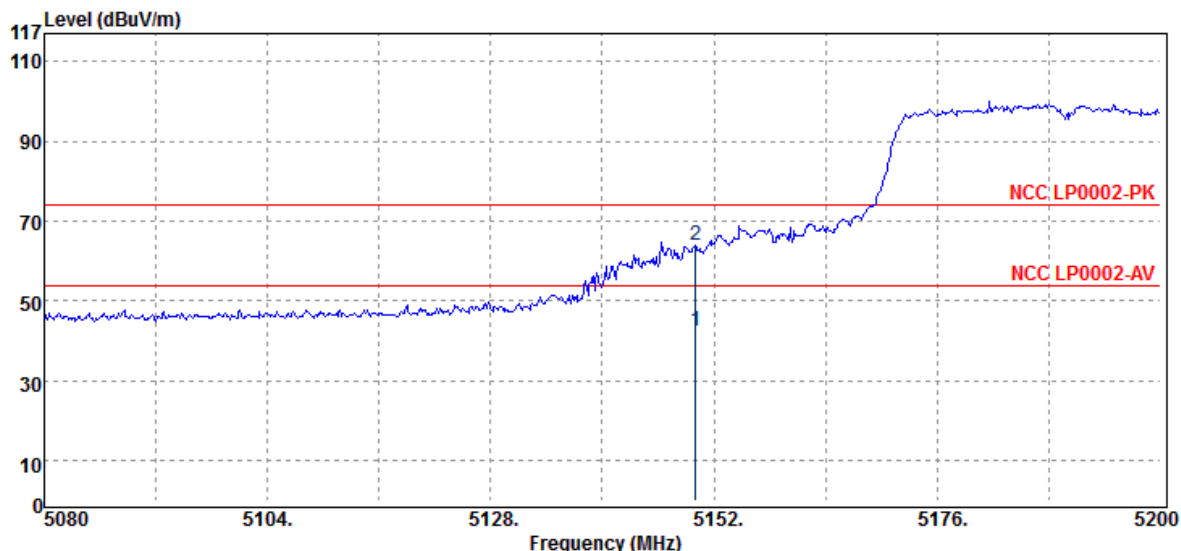
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頻帶外發射輻射量測值 (802.11n HT40) (5180MHz-5240MHz)

Operation Band	:802.11n40B1	Test Date	:2017-07-31
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	36.62	5.88	42.50	54.00	-11.50
5150.00	E	Peak	58.24	5.88	64.12	74.00	-9.88

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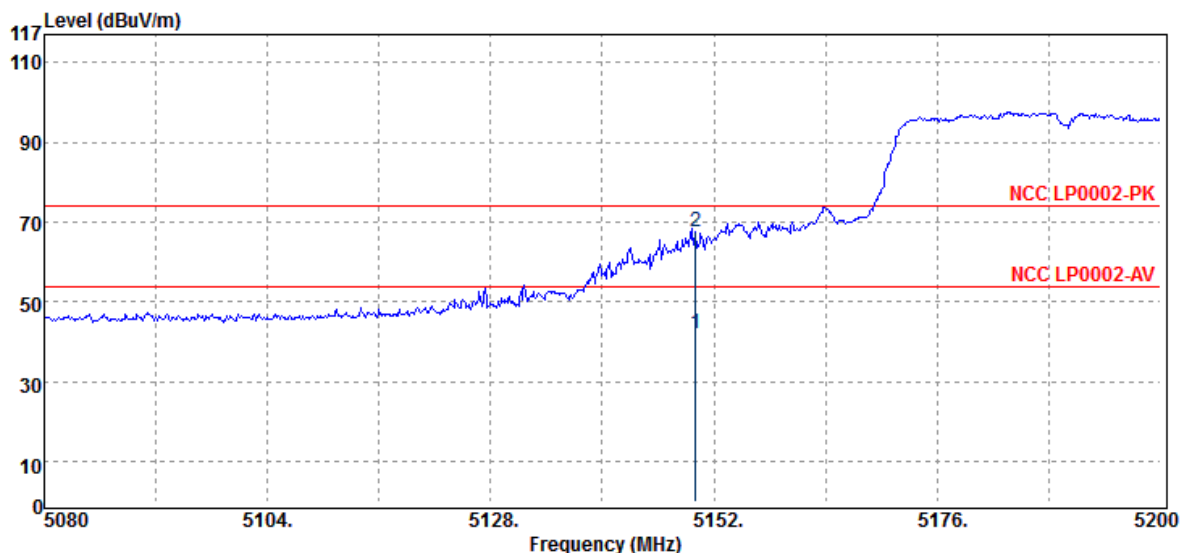
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Operation Band :802.11n40B1
Fundamental Frequency :5190 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2017-07-31
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	36.10	5.88	41.98	54.00	-12.02
5150.00	E	Peak	61.72	5.88	67.60	74.00	-6.40

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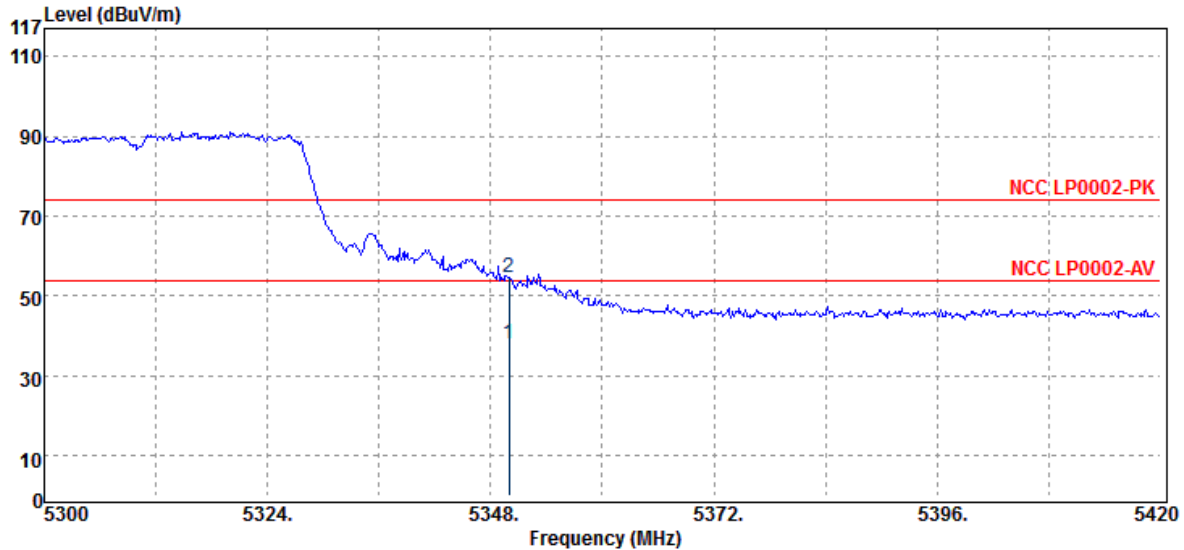
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頻帶外發射輻射量測值 (802.11n HT40) (5250MHz-5350MHz)

Operation Band	:802.11n40B2	Test Date	:2017-08-01
Fundamental Frequency	:5310 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	31.78	6.16	37.94	54.00	-16.06
5350.00	E	Peak	48.47	6.16	54.63	74.00	-19.37

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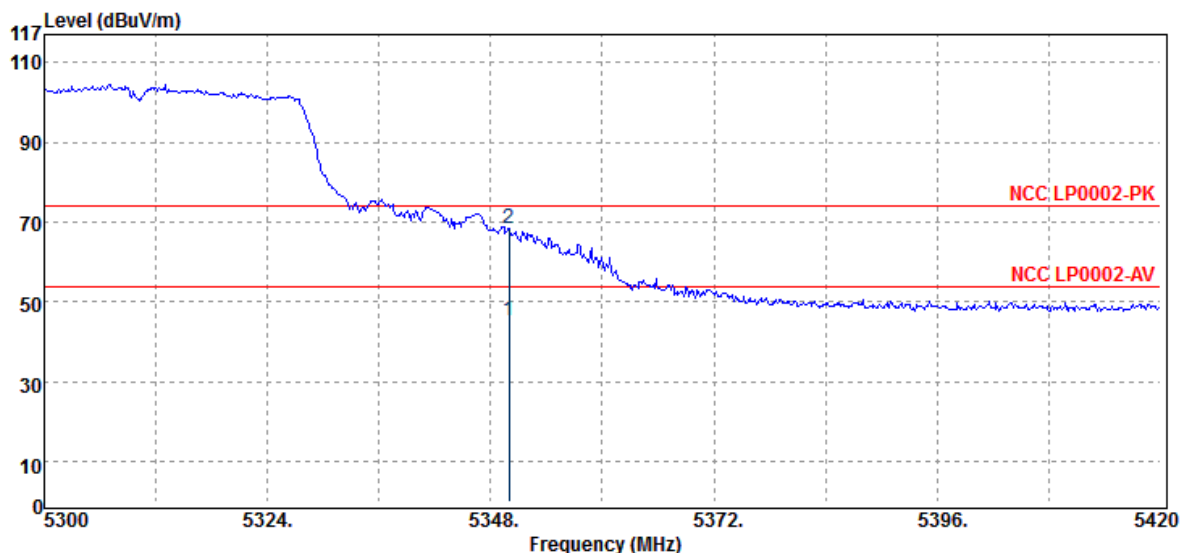
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	39.30	6.16	45.46	54.00	-8.54
5350.00	E	Peak	62.34	6.16	68.50	74.00	-5.50

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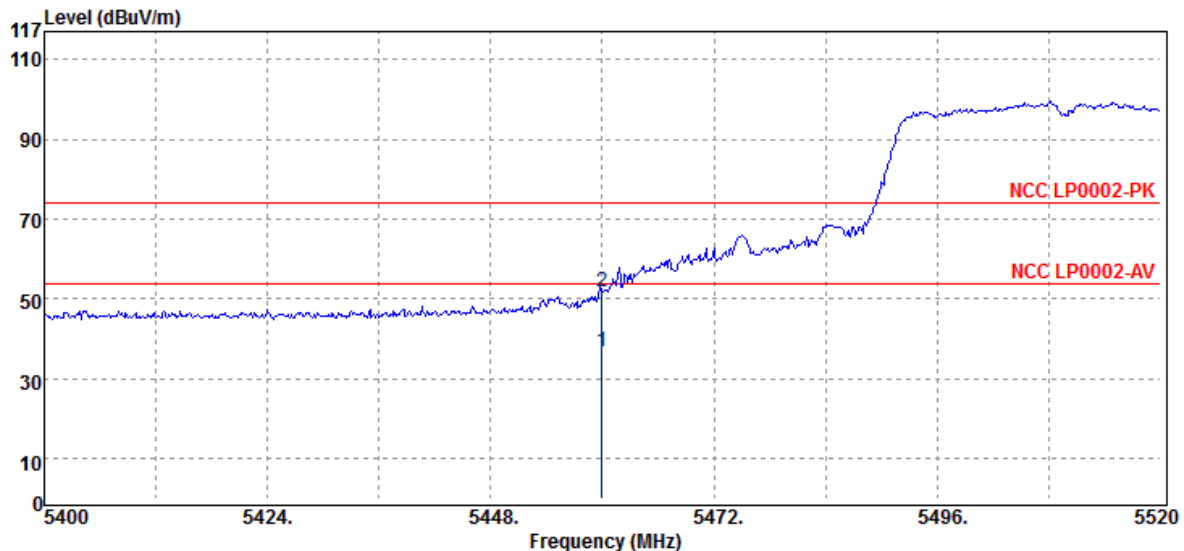
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頻帶外發射輻射量測值 (802.11n HT40) (5470MHz-5725MHz)

Operation Band	:802.11n40B3	Test Date	:2017-08-01
Fundamental Frequency	:5510 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	30.60	6.23	36.83	54.00	-17.17
5460.00	E	Peak	45.51	6.23	51.74	74.00	-22.26

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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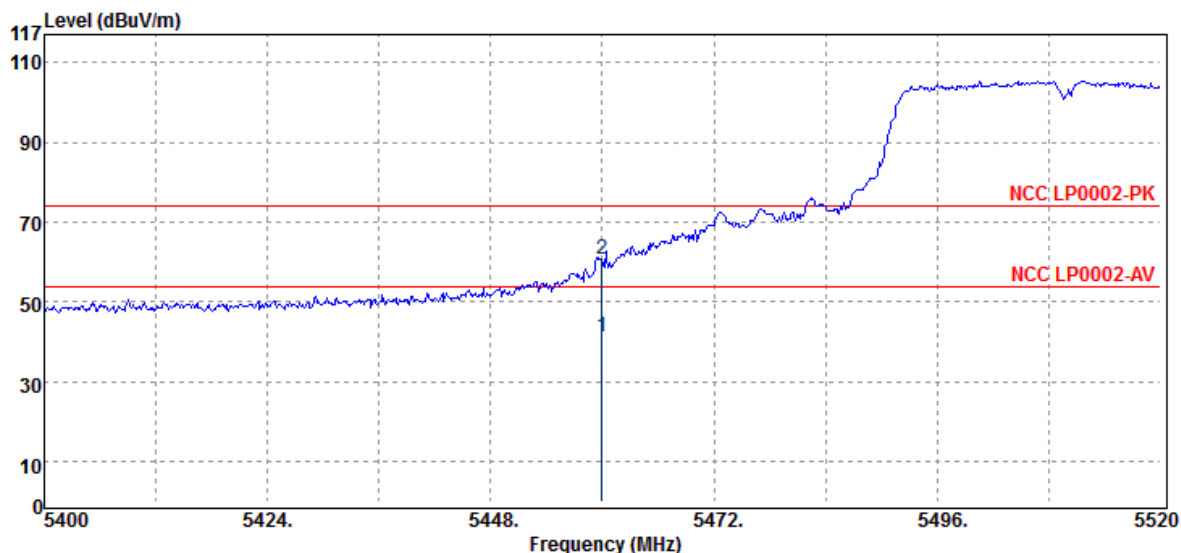
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	35.06	6.23	41.29	54.00	-12.71
5460.00	E	Peak	54.52	6.23	60.75	74.00	-13.25

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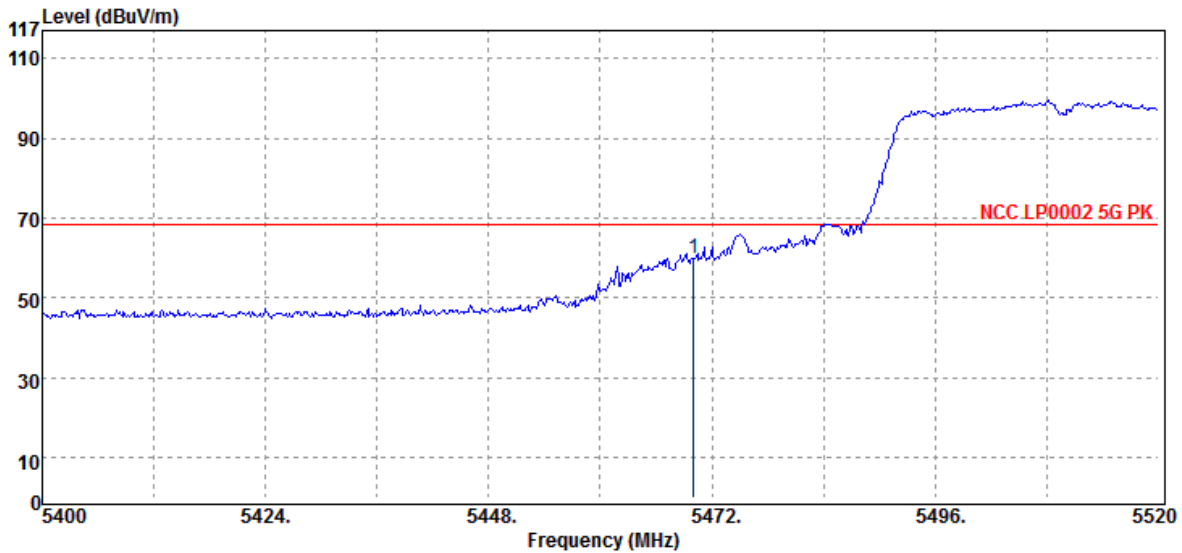
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	53.47	6.26	59.73	68.30	-8.57

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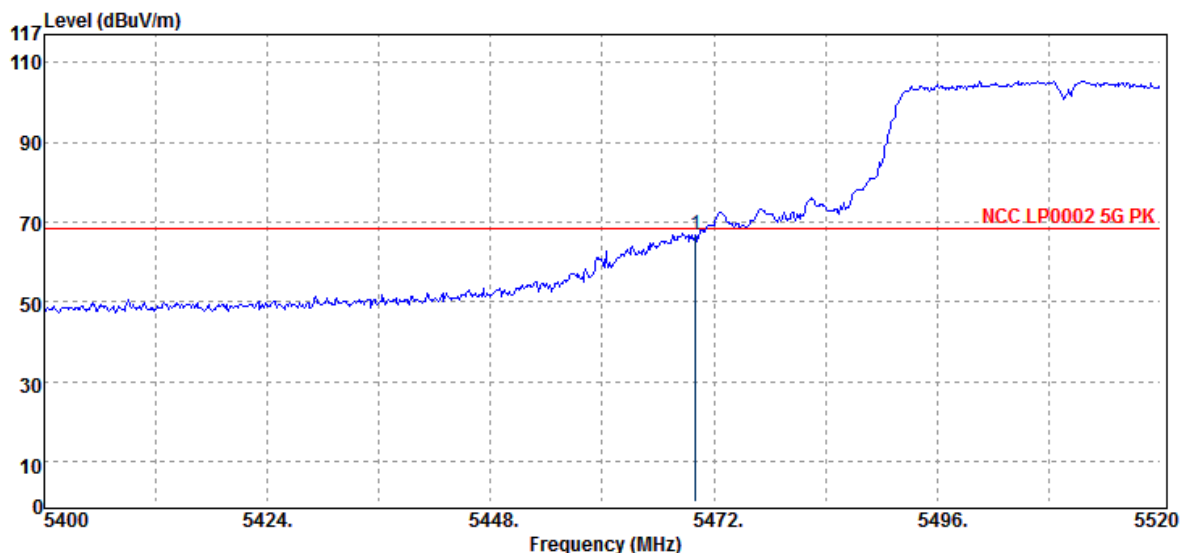
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	60.58	6.26	66.84	68.30	-1.46

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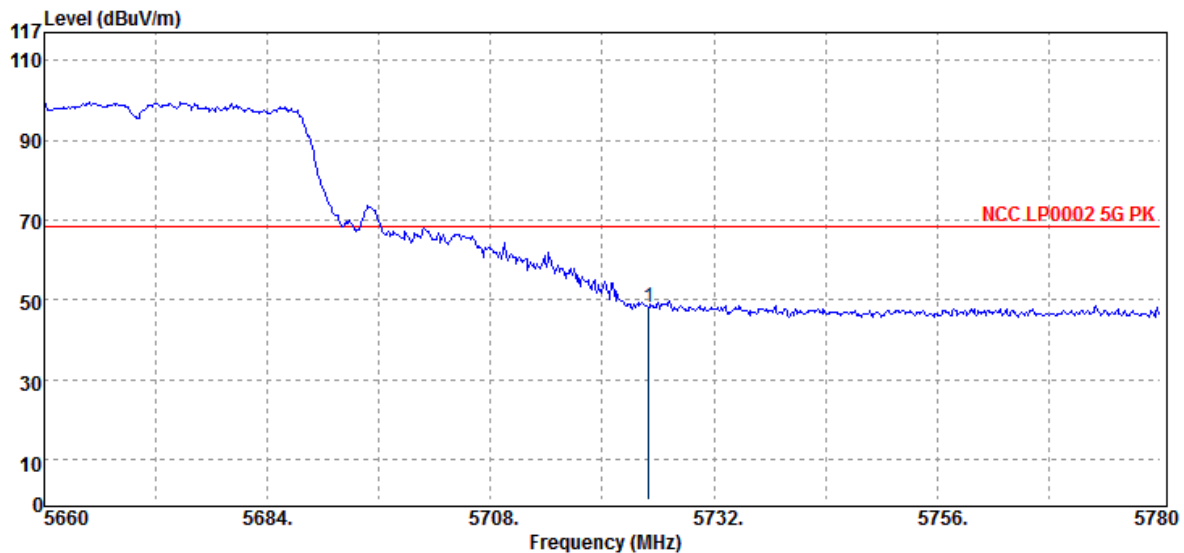
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Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	41.61	6.59	48.20	68.30	-20.10

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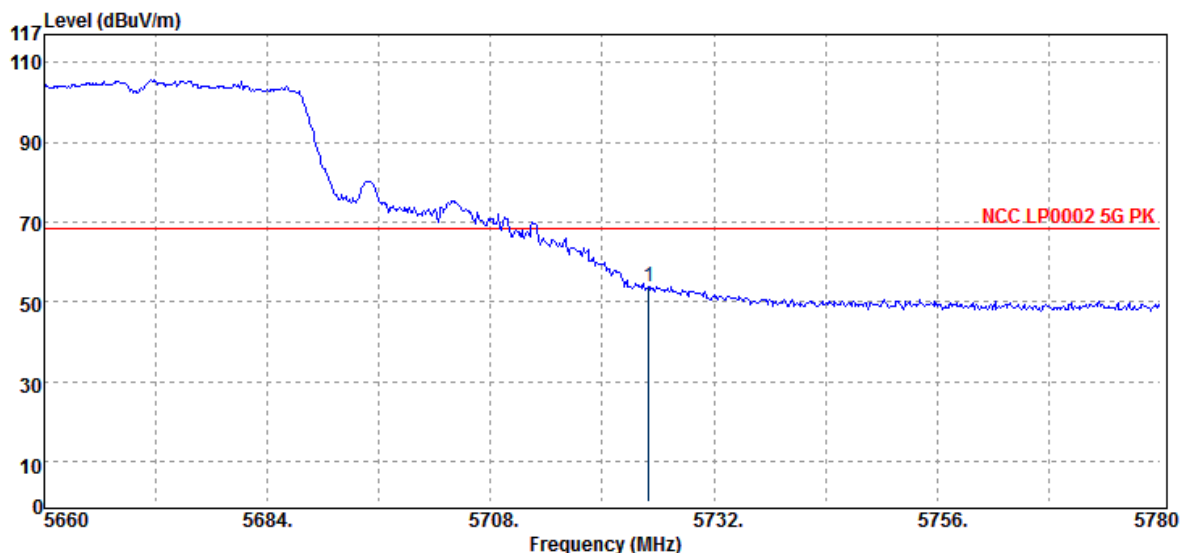
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Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	47.22	6.59	53.81	68.30	-14.49

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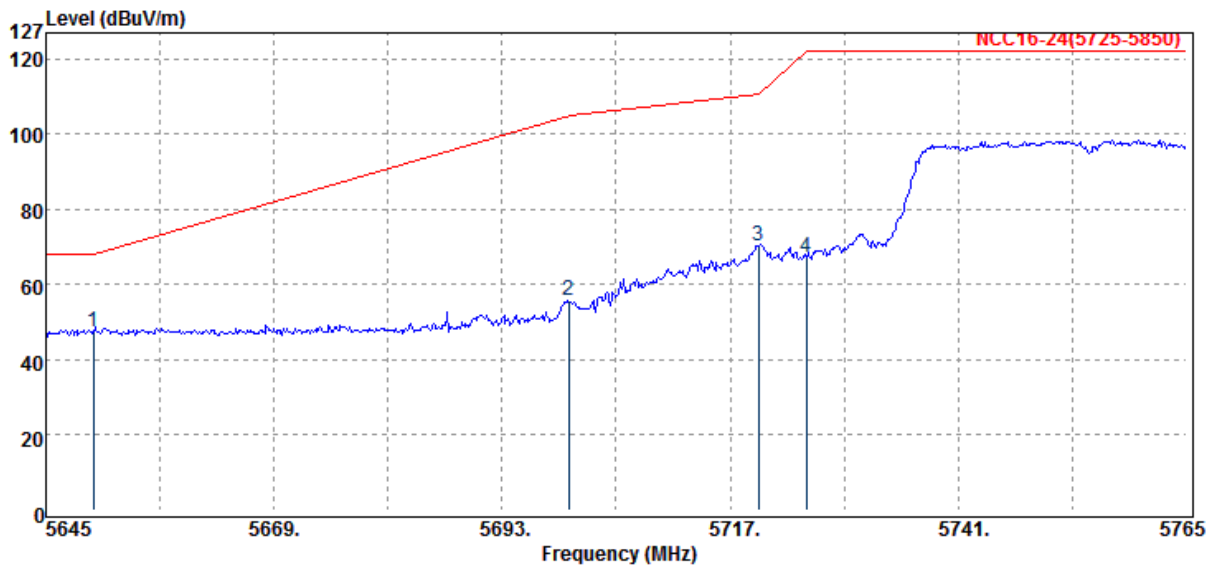
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頻帶外發射輻射量測值 (802.11n HT40) (5725MHz-5850MHz)

Operation Band	:802.11n40B4	Test Date	:2017-08-01
Fundamental Frequency	:5755 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	E	Peak	41.13	6.48	47.61	68.23	-20.62
5700.00	E	Peak	48.99	6.67	55.66	105.23	-49.57
5720.00	E	Peak	63.90	6.60	70.50	110.83	-40.33
5725.00	E	Peak	60.70	6.59	67.29	122.23	-54.94

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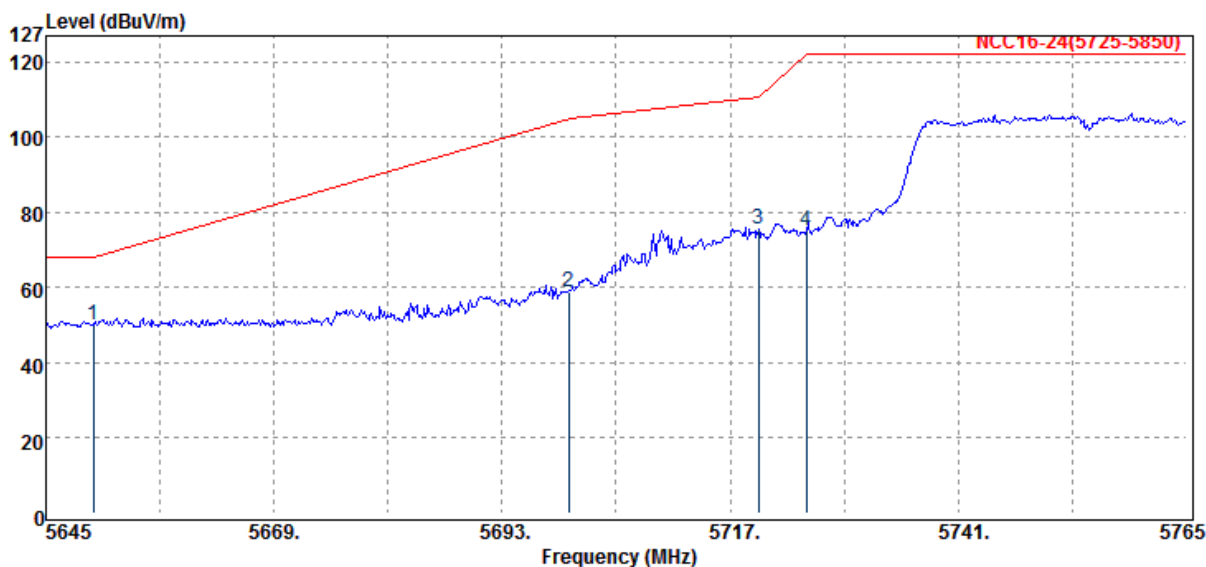
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Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	E	Peak	43.84	6.48	50.32	68.23	-17.91
5700.00	E	Peak	52.39	6.67	59.06	105.23	-46.17
5720.00	E	Peak	68.83	6.60	75.43	110.83	-35.40
5725.00	E	Peak	68.64	6.59	75.23	122.23	-47.00

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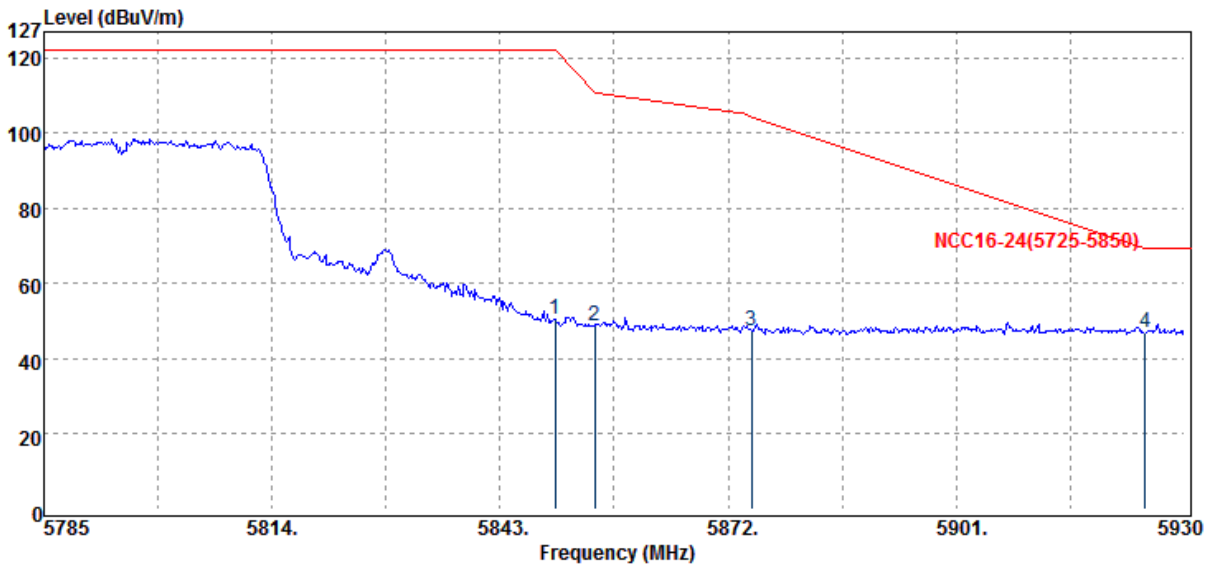
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	43.15	7.28	50.43	122.23	-71.80
5855.00	E	Peak	41.39	7.32	48.71	110.83	-62.12
5875.00	E	Peak	40.15	7.37	47.52	105.23	-57.71
5925.00	E	Peak	39.58	7.39	46.97	68.23	-21.26

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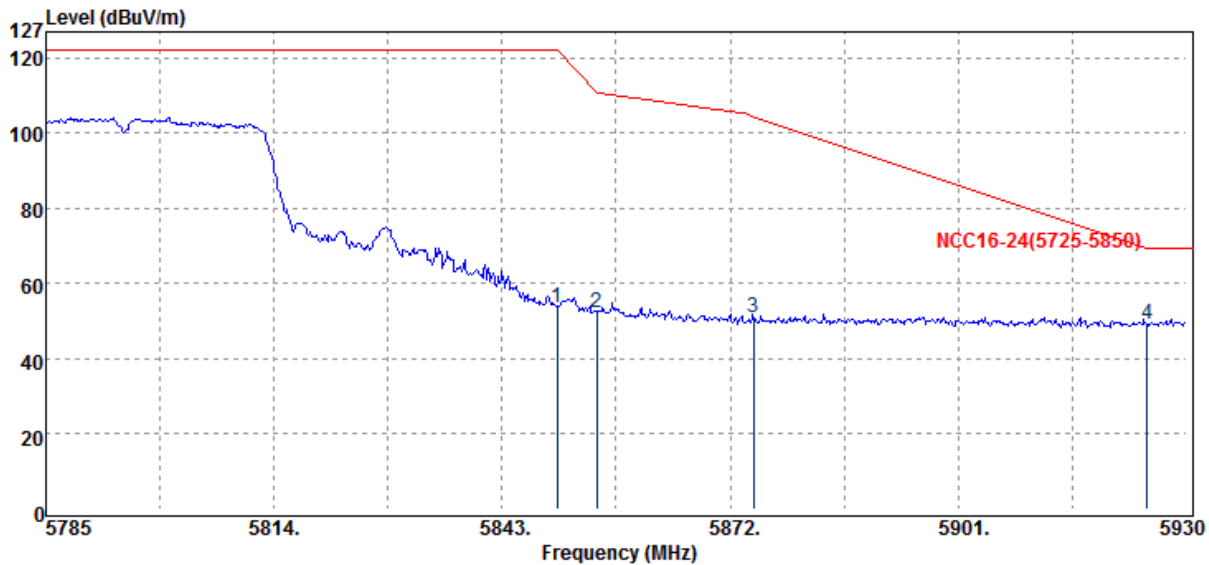
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Operation Band :802.11n40B4
Fundamental Frequency :5795 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2017-08-01
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	46.48	7.28	53.76	122.23	-68.47
5855.00	E	Peak	45.00	7.32	52.32	110.83	-58.51
5875.00	E	Peak	43.75	7.37	51.12	105.23	-54.11
5925.00	E	Peak	41.61	7.39	49.00	68.23	-19.23

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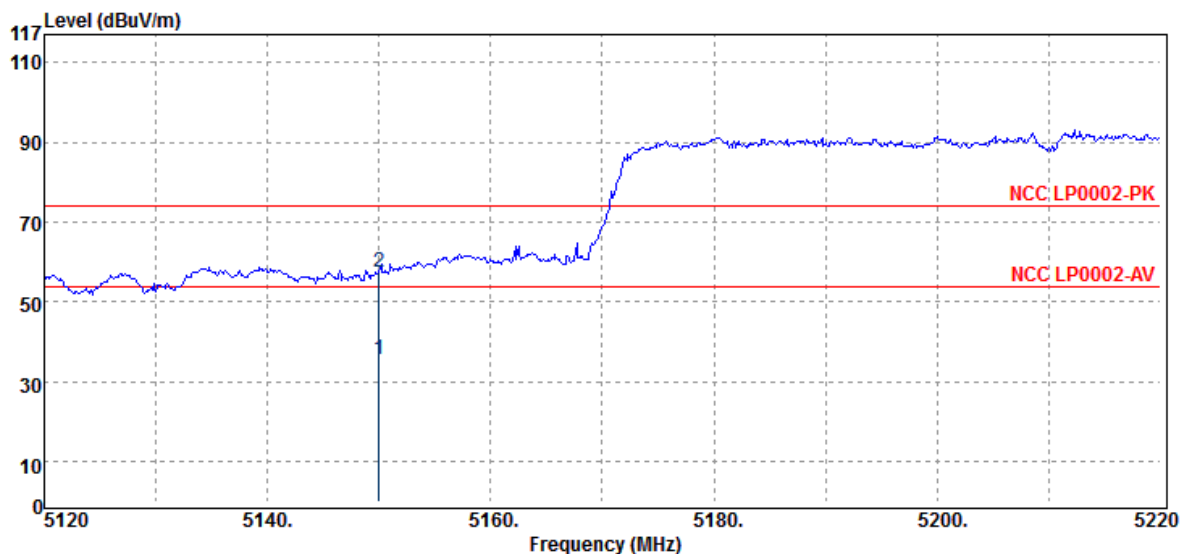
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頻帶外發射輻射量測值 (802.11ac VHT80) (5150MHz-5250MHz)

Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2017-08-01
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	29.83	5.88	35.71	54.00	-18.29
5150.00	E	Peak	51.78	5.88	57.66	74.00	-16.34

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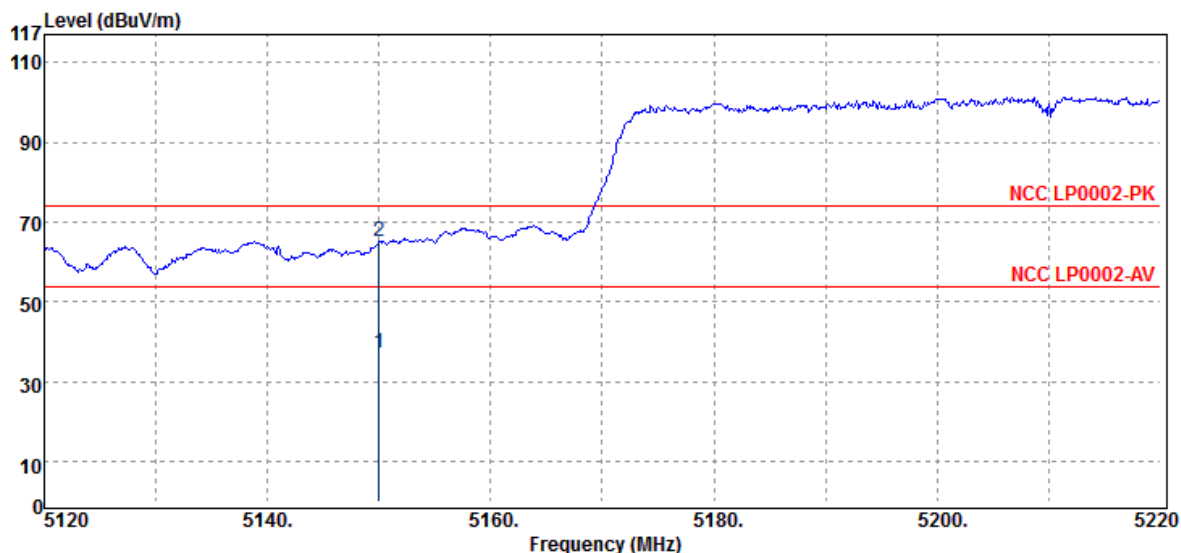
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	31.50	5.88	37.38	54.00	-16.62
5150.00	E	Peak	59.39	5.88	65.27	74.00	-8.73

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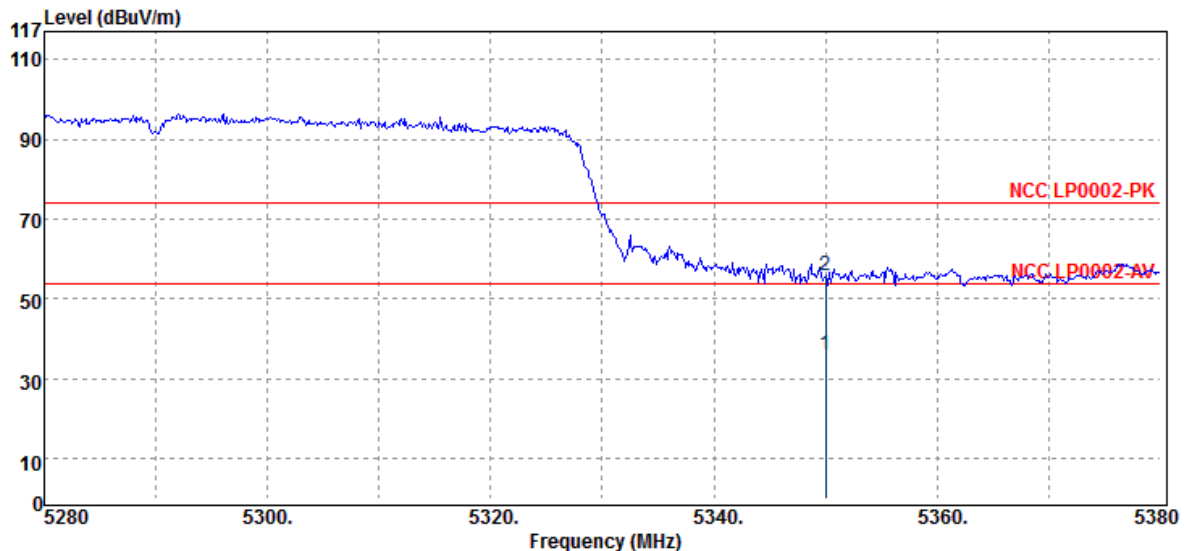
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頻帶外發射輻射量測值 (802.11ac VHT80) (5250MHz-5350MHz)

Operation Band	:802.11ac80B2	Test Date	:2017-08-01
Fundamental Frequency	:5290 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	29.89	6.16	36.05	54.00	-17.95
5350.00	E	Peak	49.78	6.16	55.94	74.00	-18.06

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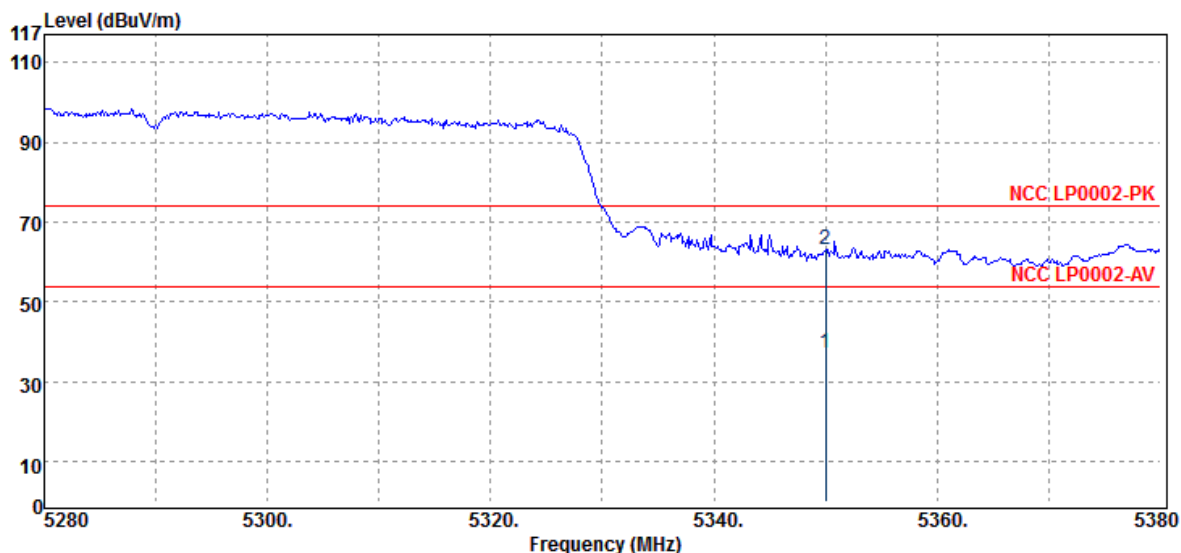
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Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	31.22	6.16	37.38	54.00	-16.62
5350.00	E	Peak	56.95	6.16	63.11	74.00	-10.89

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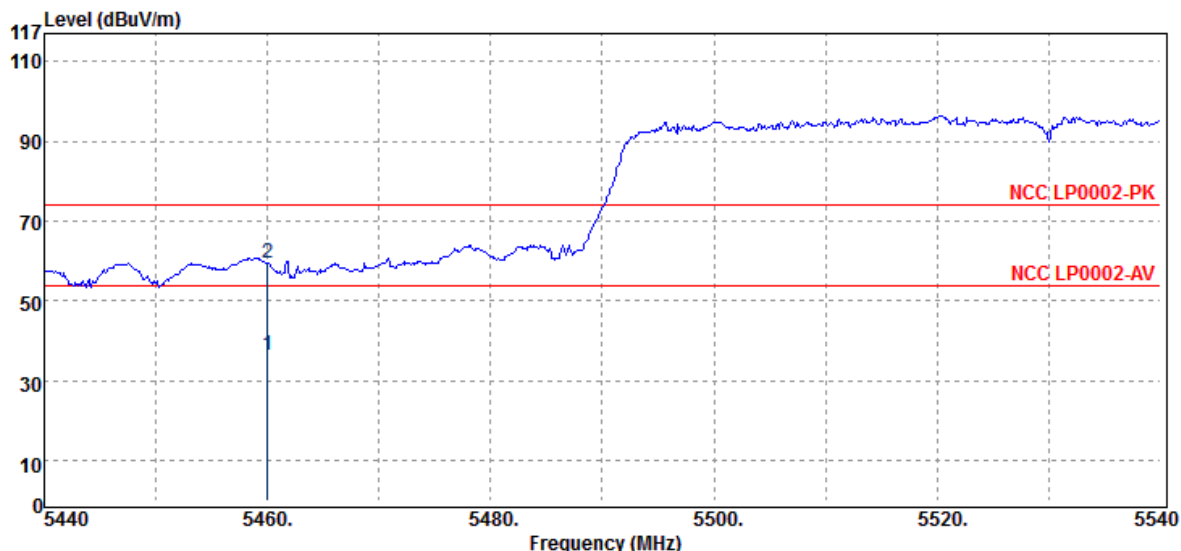
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頻帶外發射輻射量測值 (802.11ac VHT80) (5470MHz-5725MHz)

Operation Band	:802.11ac80B3	Test Date	:2017-08-01
Fundamental Frequency	:5530 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	30.19	6.23	36.42	54.00	-17.58
5460.00	E	Peak	53.12	6.23	59.35	74.00	-14.65

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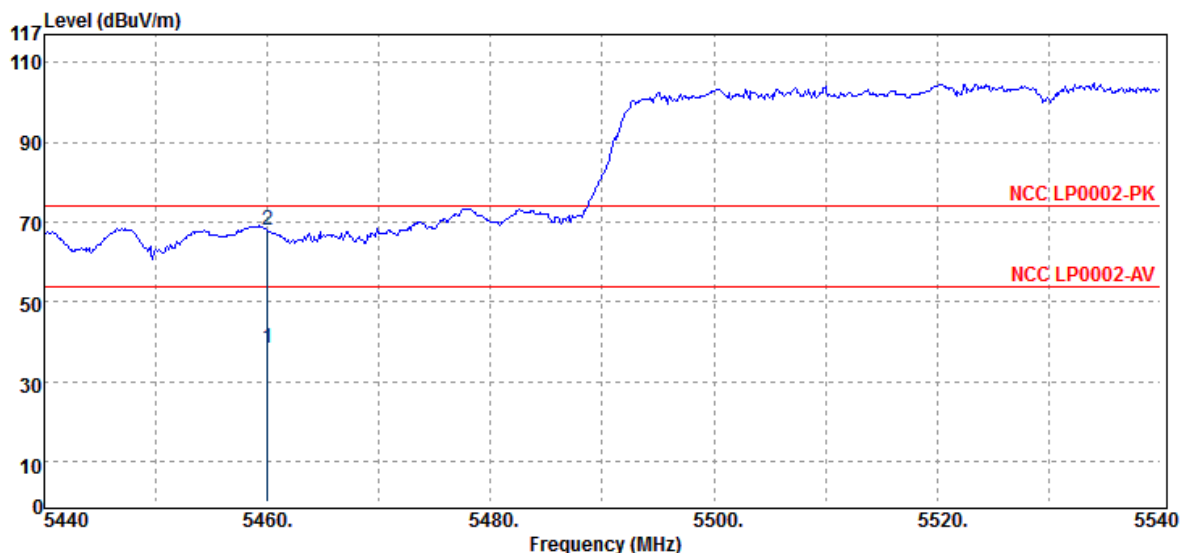
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	32.15	6.23	38.38	54.00	-15.62
5460.00	E	Peak	61.66	6.23	67.89	74.00	-6.11

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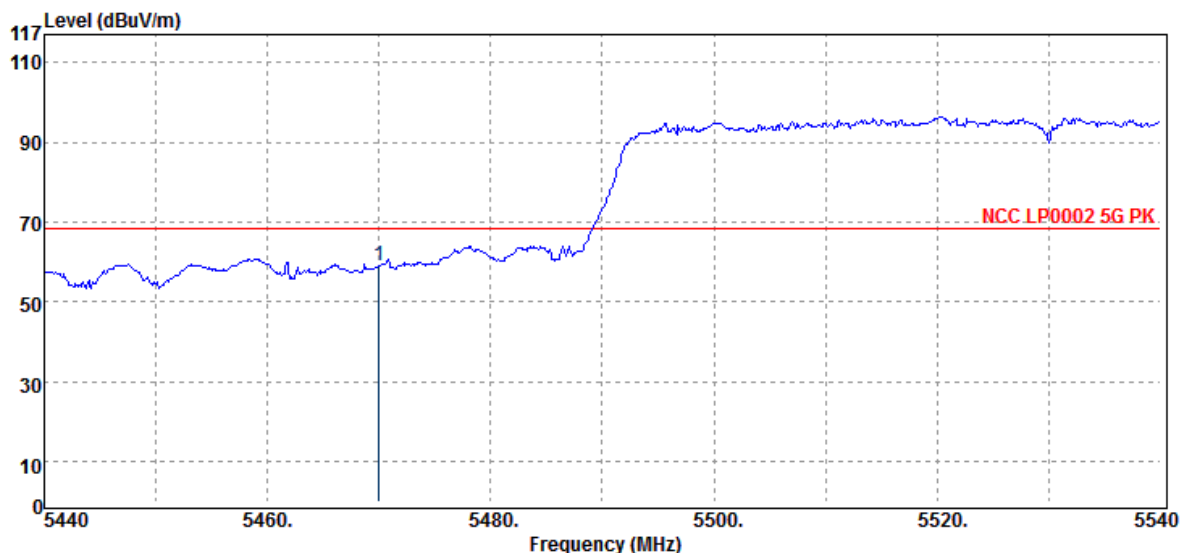
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	52.99	6.26	59.25	68.30	-9.05

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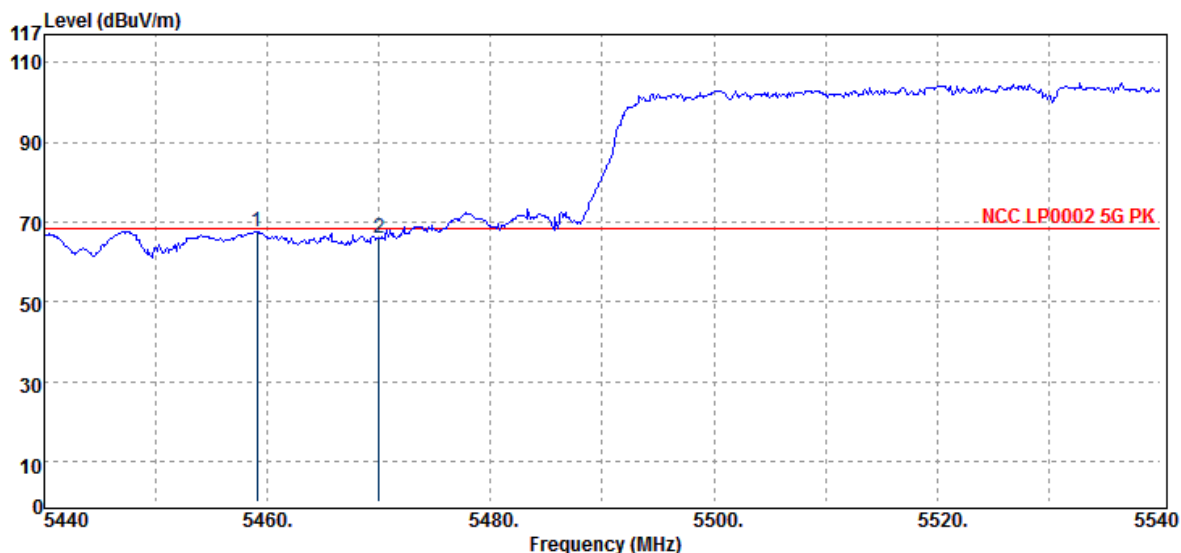
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5459.10	S	Peak	61.36	6.23	67.59	68.30	-0.71
5470.00	E	Peak	59.60	6.26	65.86	68.30	-2.44

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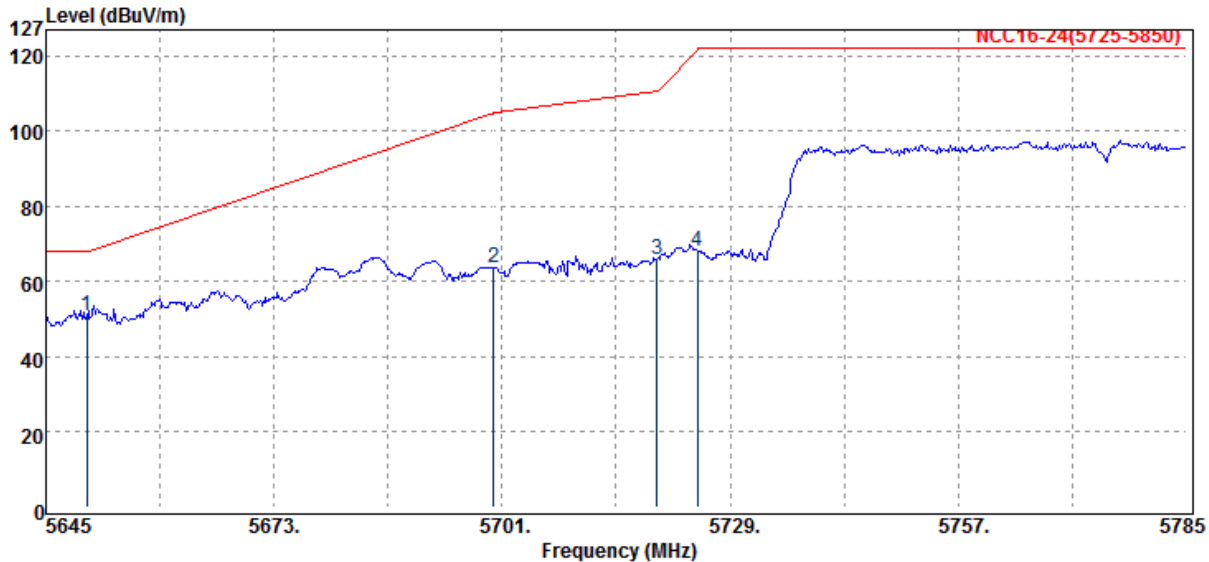
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頻帶外發射輻射量測值 (802.11ac VHT80) (5725MHz-5850MHz)

Operation Band	:802.11ac80B4	Test Date	:2017-08-01
Fundamental Frequency	:5775 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
5650.00	E	Peak	44.69	6.48	51.17	68.23	-17.06
5700.00	E	Peak	56.85	6.67	63.52	105.23	-41.71
5720.00	E	Peak	59.30	6.60	65.90	110.83	-44.93
5725.00	E	Peak	61.74	6.59	68.33	122.23	-53.90

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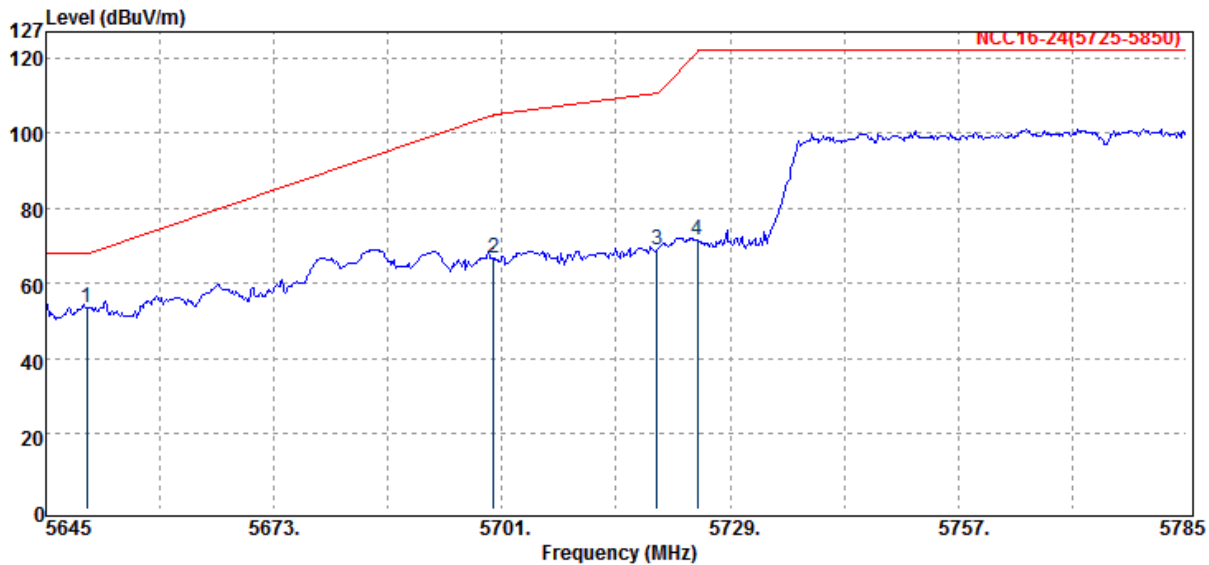
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Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2017-08-01
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode			Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	E	Peak	47.12	6.48	53.60	68.23	-14.63
5700.00	E	Peak	59.99	6.67	66.66	105.23	-38.57
5720.00	E	Peak	62.31	6.60	68.91	110.83	-41.92
5725.00	E	Peak	65.00	6.59	71.59	122.23	-50.64

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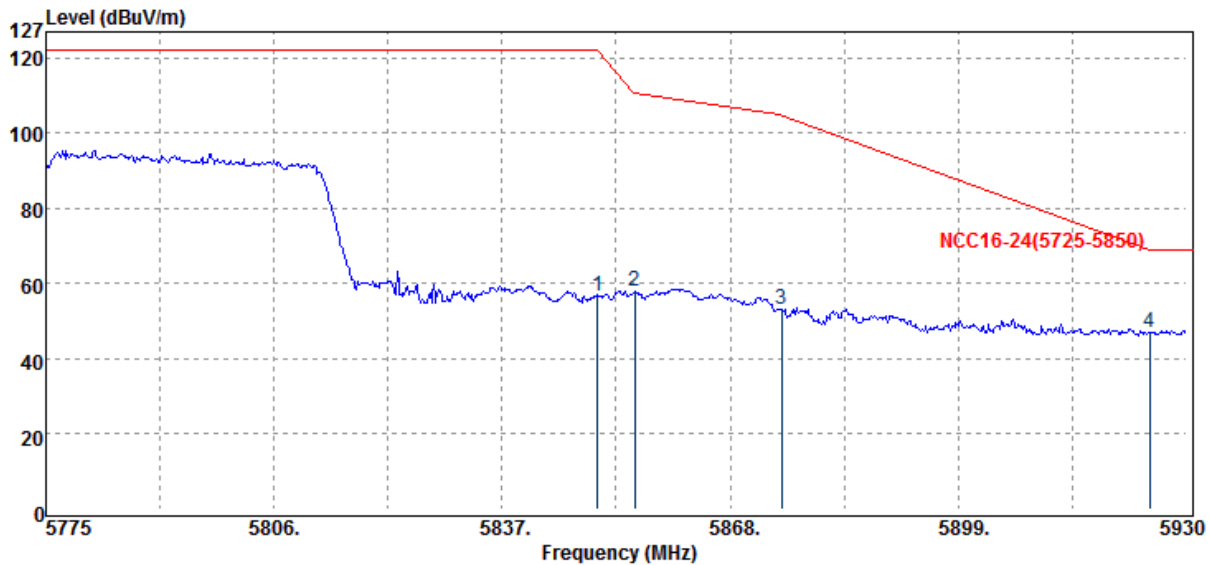
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Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2017-08-01
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode			Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	49.57	7.28	56.85	122.23	-65.38
5855.00	E	Peak	50.54	7.32	57.86	110.83	-52.97
5875.00	E	Peak	45.59	7.37	52.96	105.23	-52.27
5925.00	E	Peak	39.66	7.39	47.05	68.23	-21.18

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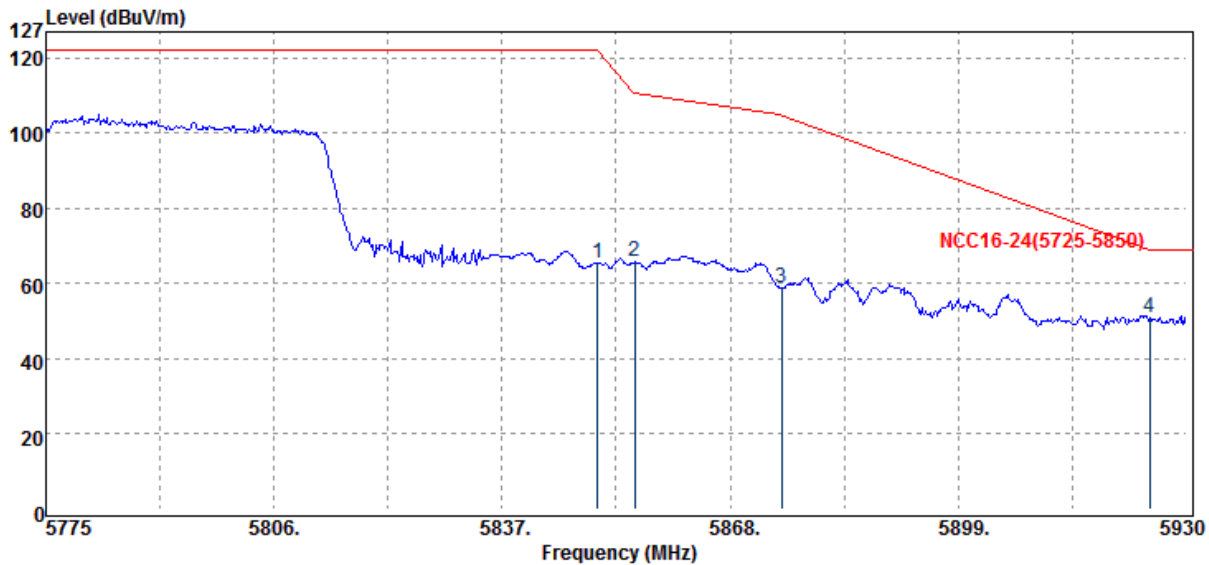
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-08-01
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode			Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	58.18	7.28	65.46	122.23	-56.77
5855.00	E	Peak	58.45	7.32	65.77	110.83	-45.06
5875.00	E	Peak	51.48	7.37	58.85	105.23	-46.38
5925.00	E	Peak	43.40	7.39	50.79	68.23	-17.44

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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4.7.3.1 (4) (c) / 4.7.3.2 (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 4.7.3.1 (4) (c) / 4.7.3.2 (3)之規定，操作頻率為5.15 GHz~5.25 GHz，5.25 GHz~5.35 GHz 與 5.470 GHz~5.725 GHz 頻段兆赫(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4.7.3.3 (3)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。

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	PIFA Antenna, Supplier: Hon Hai Precision Industry Co., Ltd. ANT 0 3. Model No.: W-M-D-B-N-0-0100 5GHz Gain: 1.28dBi (5150MHz-5250MHz) 5GHz Gain: 1.28dBi (5250MHz-5350MHz) 5GHz Gain: 2.21dBi (5470MHz-5725MHz) 5GHz Gain: 1.01dBi (5725MHz-5850MHz) 4. Model No.: W-M-D-B-N-0-0390 5GHz Gain: 0.178dBi (5150MHz-5250MHz) 5GHz Gain: 0.178dBi (5250MHz-5350MHz) 5GHz Gain: 1.108dBi (5470MHz-5725MHz) 5GHz Gain: -0.092dBi (5725MHz-5850MHz) ANT 1 3. Model No.: W-M-D-B-N-0-0100 5GHz Gain: 1.28dBi (5150MHz-5250MHz) 5GHz Gain: 1.28dBi (5250MHz-5350MHz) 5GHz Gain: 2.21dBi (5470MHz-5725MHz) 5GHz Gain: 1.01dBi (5725MHz-5850MHz) 4. Model No.: W-M-D-B-N-1-0260 5GHz Gain: 0.672dBi (5150MHz-5250MHz) 5GHz Gain: 0.672dBi (5250MHz-5350MHz) 5GHz Gain: 1.602dBi (5470MHz-5725MHz) 5GHz Gain: 0.402dBi (5725MHz-5850MHz)
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8 26dB & 6dB 頻寬之測試

8.1 適用標準

(1) 5.15 GHz~5.25 GHz、5.25 GHz~5.35 GHz 及 5.47 GHz~5.725 GHz 頻段，測試儀器之頻寬應設定為 1 MHz 頻寬或待測物之 26 dB 發射頻寬，兩者取較小者。

(2) 5.725 GHz~5.850 GHz 頻段，測試儀器之頻寬應設定為 500 kHz 或待測物之 26dB 發射頻寬，兩者取較小者。

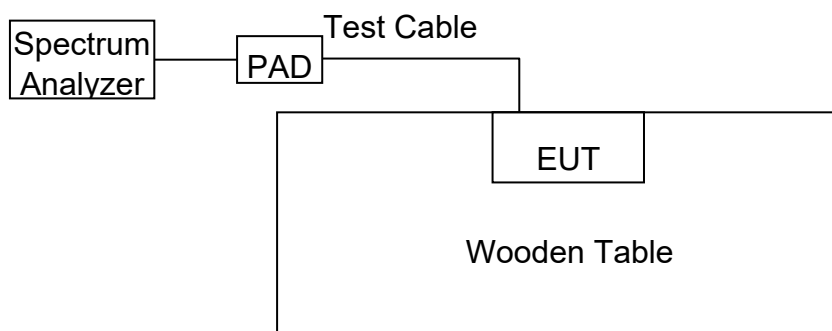
解析頻寬小於(1)或(2)時，應以補償方式計算總功率頻譜密度。

8.2 量測方法

將發射機之天線埠經由適當之衰減直接連至測試儀器。

設定儀器之解析頻寬為 100KHz, 視訊頻寬 $\geq$ 解析頻寬, 頻率掃描範圍(span)大於解析頻寬

8.3 測試配置



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8.4 量測結果

測試設備: 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2

型號: WBU034-EA

Combo Module

解析頻寬: 100 kHz

視頻頻寬: 300 kHz

Span: a/n20/ac20: 50MHz, n40/ac40: 60MHz,
ac80: 100MHz

測試日期: Aug/12/2016

環境溫度: 25°C

環境濕度: 60%

測試者:

曾建榮

802.11a_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	19.94	12.99725154
5220	20.48	13.1122391
5240	20.10	13.03088011
5260	19.85	12.97782389
5300	20.02	13.01507457
5320	20.13	13.038222
5500	20.57	13.13170948
5580	20.74	13.1685063
5700	20.32	13.07880956

802.11n_HT20_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	20.25	13.06317781
5220	20.05	13.02179354
5240	20.13	13.03930064
5260	20.34	13.08244177
5300	20.25	13.06467919
5320	20.12	13.03541627
5500	20.42	13.10098272
5580	20.38	13.09246797
5700	19.97	13.00465046

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802.11n_HT20_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	20.23	13.06081746
5220	20.32	13.07987817
5240	20.31	13.07624382
5260	20.18	13.05007238
5300	19.75	12.95523119
5320	20.03	13.01615898
5500	20.41	13.09864283
5580	20.14	13.03951634
5700	20.34	13.0839365

802.11n_HT40_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	40.56	16.08108654
5230	39.46	15.96157081
5270	41.04	16.13239098
5310	40.17	16.03945075
5510	40.52	16.07648
5550	40.68	16.09412971
5670	40.30	16.05305046

802.11n_HT40_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	40.19	16.041072
5230	40.49	16.07294144
5270	40.05	16.0260252
5310	40.57	16.08237121
5510	40.16	16.03804518
5550	40.70	16.0961575
5670	40.30	16.05294269

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802.11ac_VHT80_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	83.82	19.23352838
5290	80.85	19.07663909
5530	80.37	19.05115583

802.11ac_VHT80_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	80.99	19.08442123
5290	80.83	19.07572579
5530	80.92	19.08029038

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802.11a_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.44	12.15901813
5785	16.40	12.14896808
5825	16.51	12.17825981

802.11n_HT20_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	17.63	12.46301577
5785	17.63	12.46326208
5825	17.63	12.46153766

802.11n_HT20_Aux

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	17.64	12.46375464
5785	17.63	12.46129126
5825	17.63	12.46203042

802.11n_HT40_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	36.36	15.6061193
5795	36.37	15.60707477

802.11n_HT40_Aux

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	36.35	15.6052831
5795	36.33	15.60313212

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802.11ac _VHT80_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	75.74	18.79331035

802.11ac _VHT80_Aux

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	72.63	18.61110065

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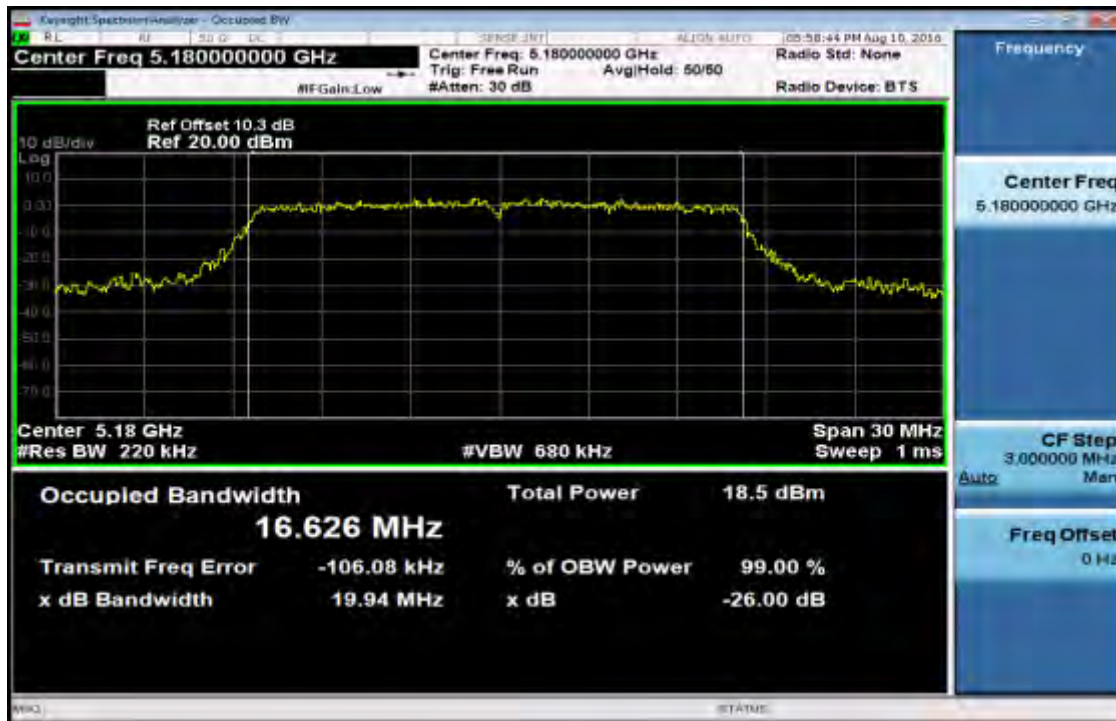
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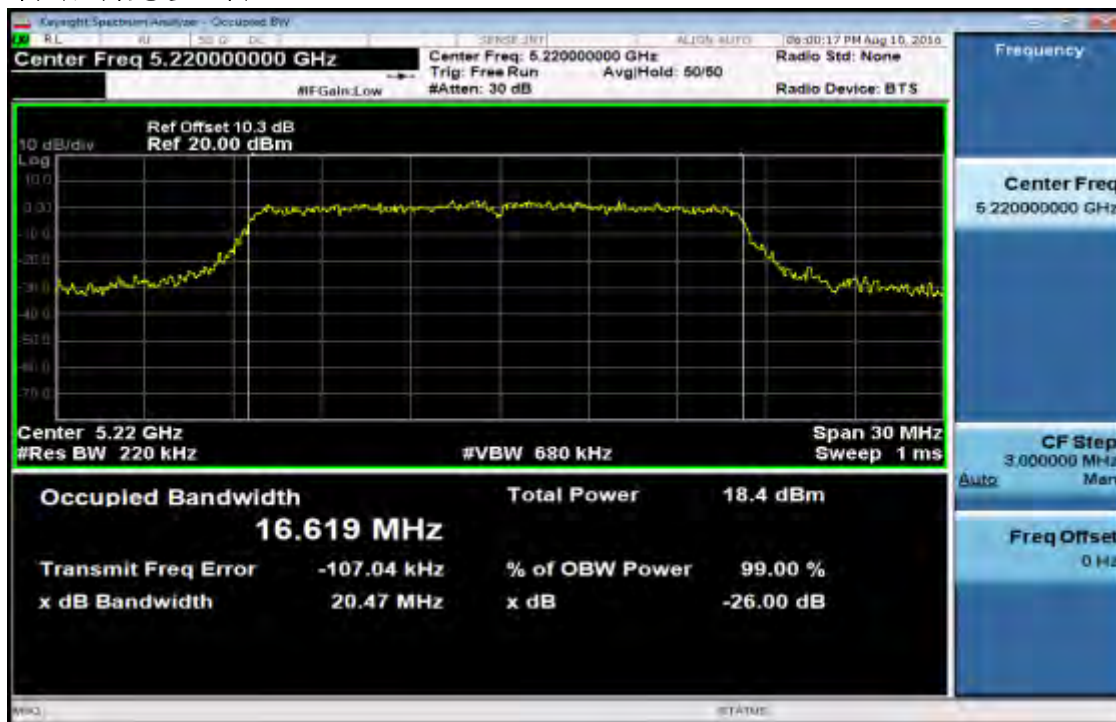
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802.11a Mode Test Data Plot (5150MHz-5250MHz) (Main)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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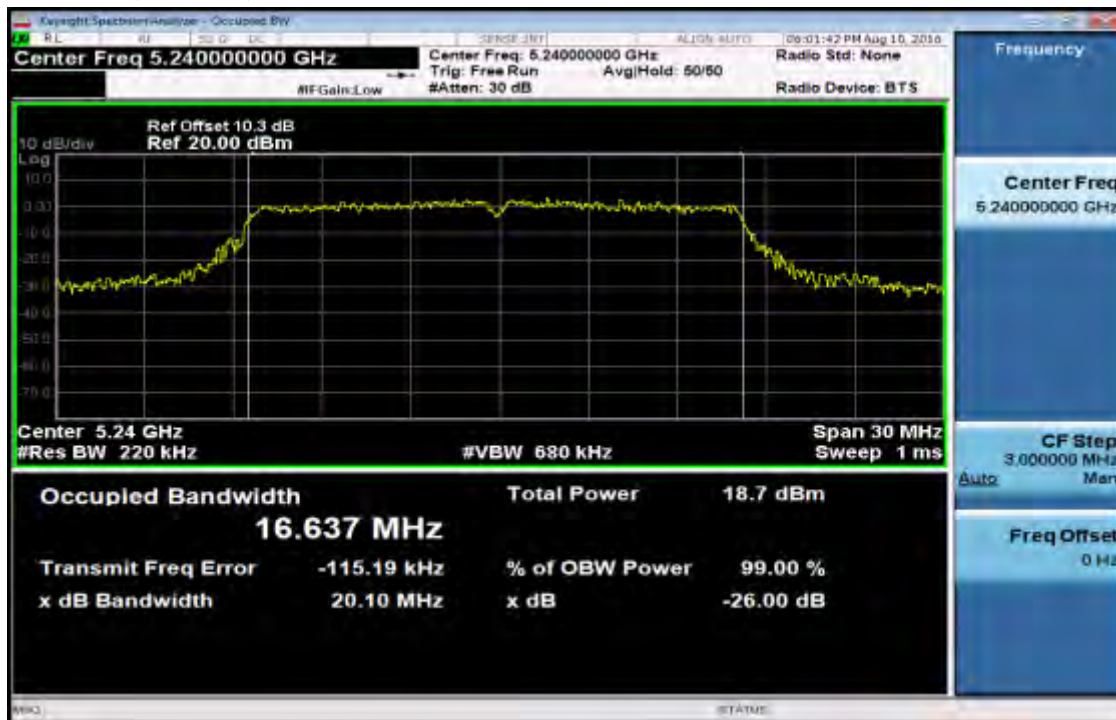
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CH High 發射頻寬量測值



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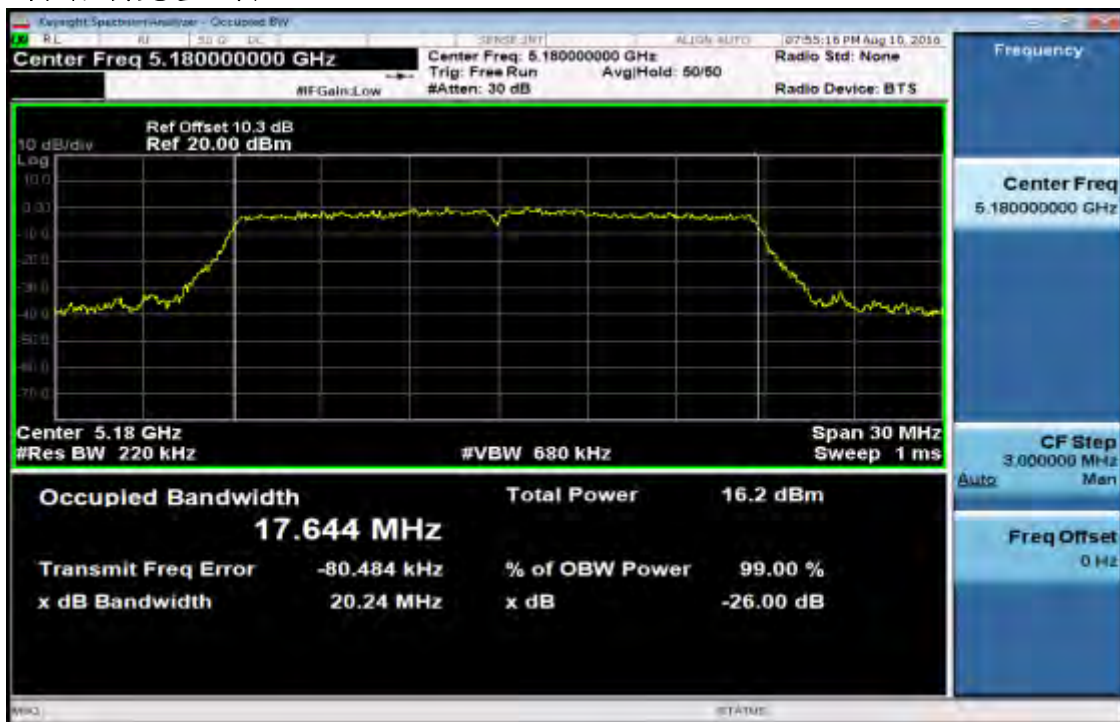
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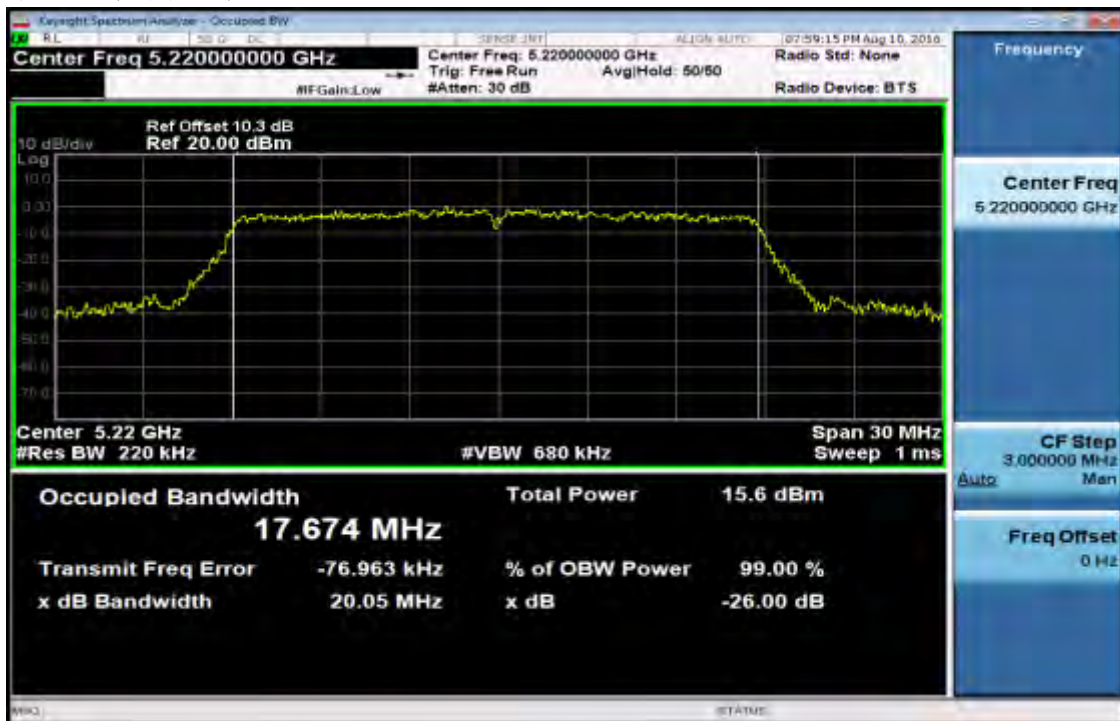
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802.11n HT20 Mode Test Data Plot (5150MHz-5250MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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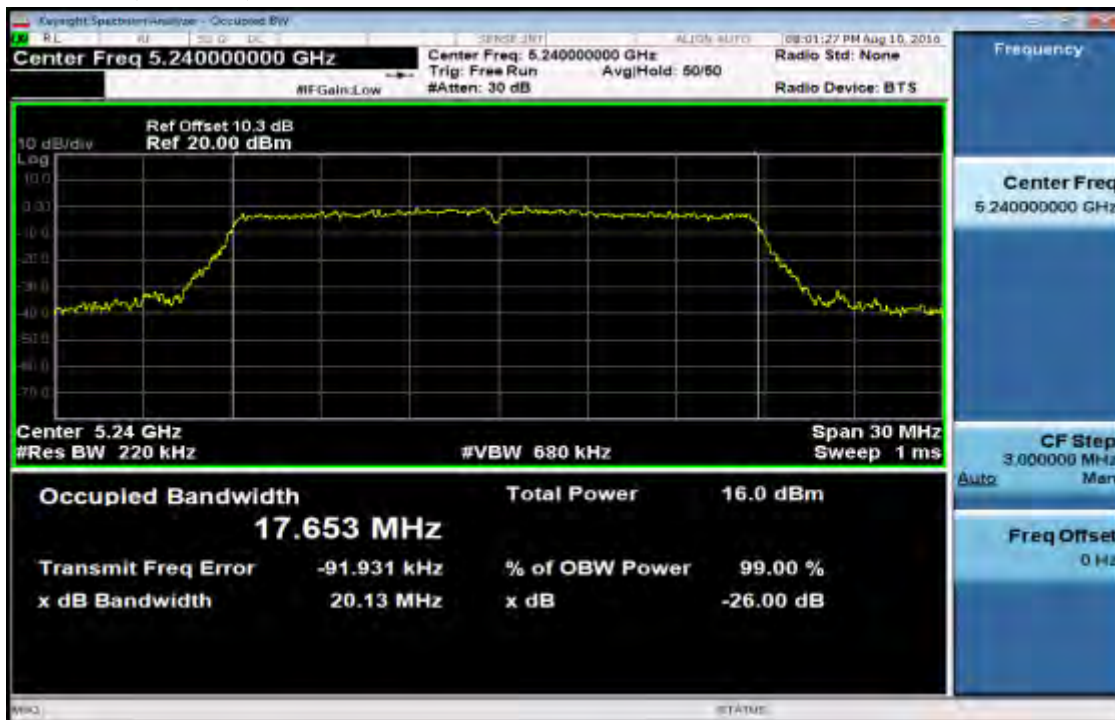
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CH High 發射頻寬量測值



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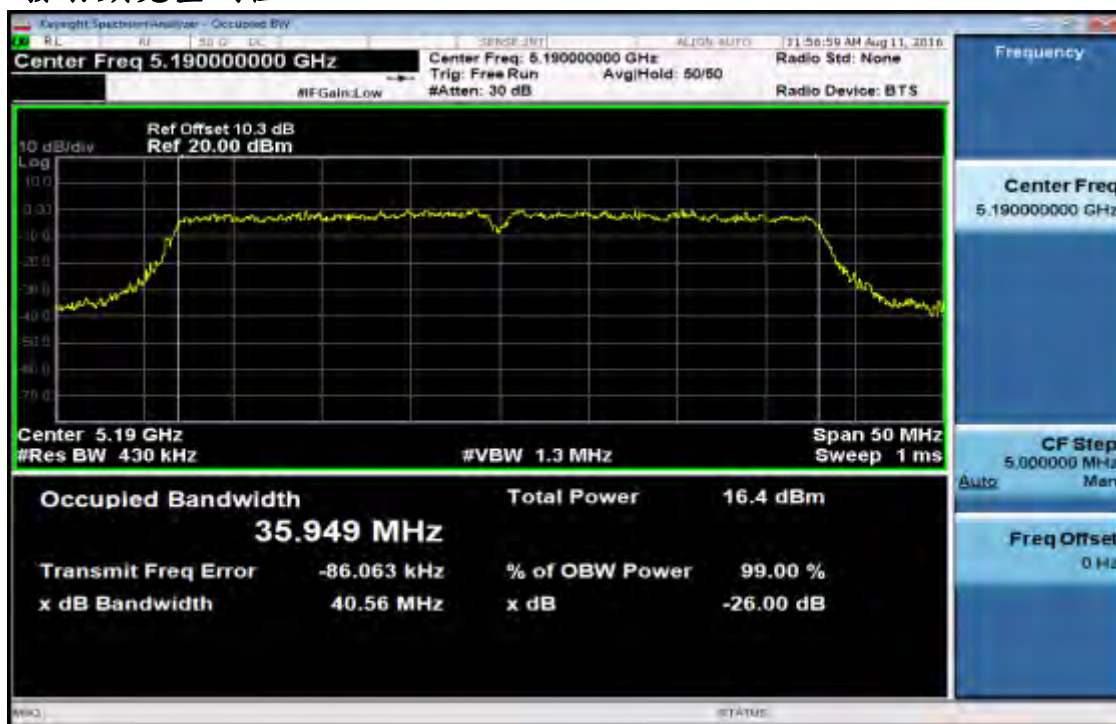
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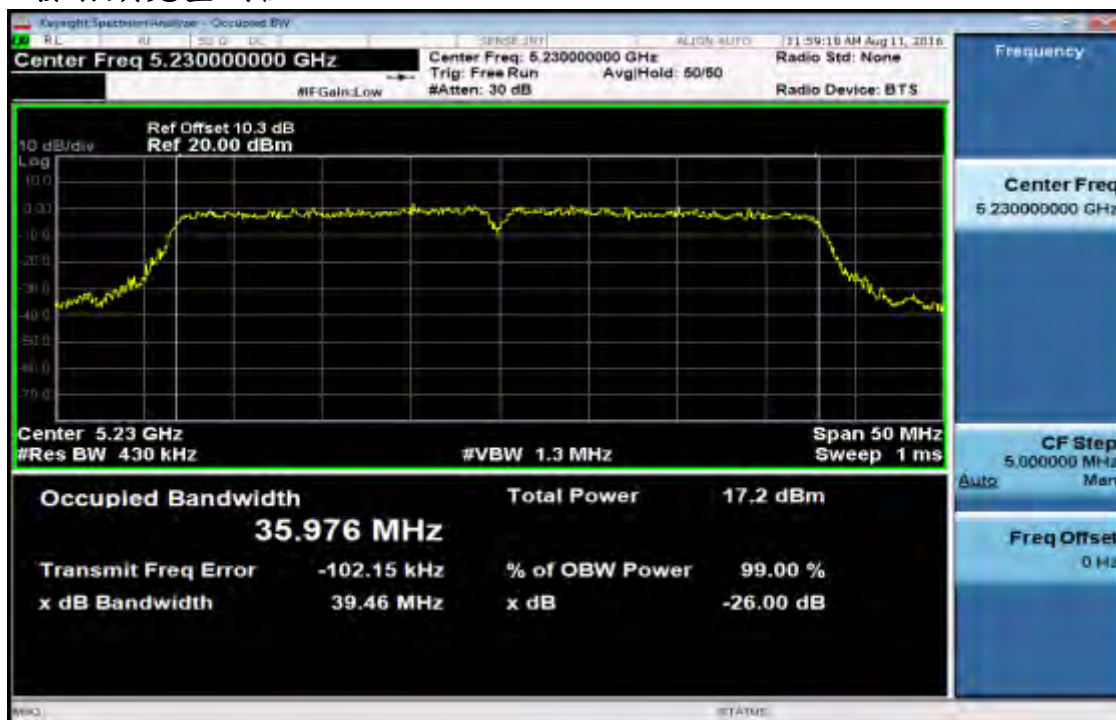
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802.11n HT40 Mode Test Data Plot (5150MHz-5250MHz)

CH Low 發射頻寬量測值



CH High 發射頻寬量測值



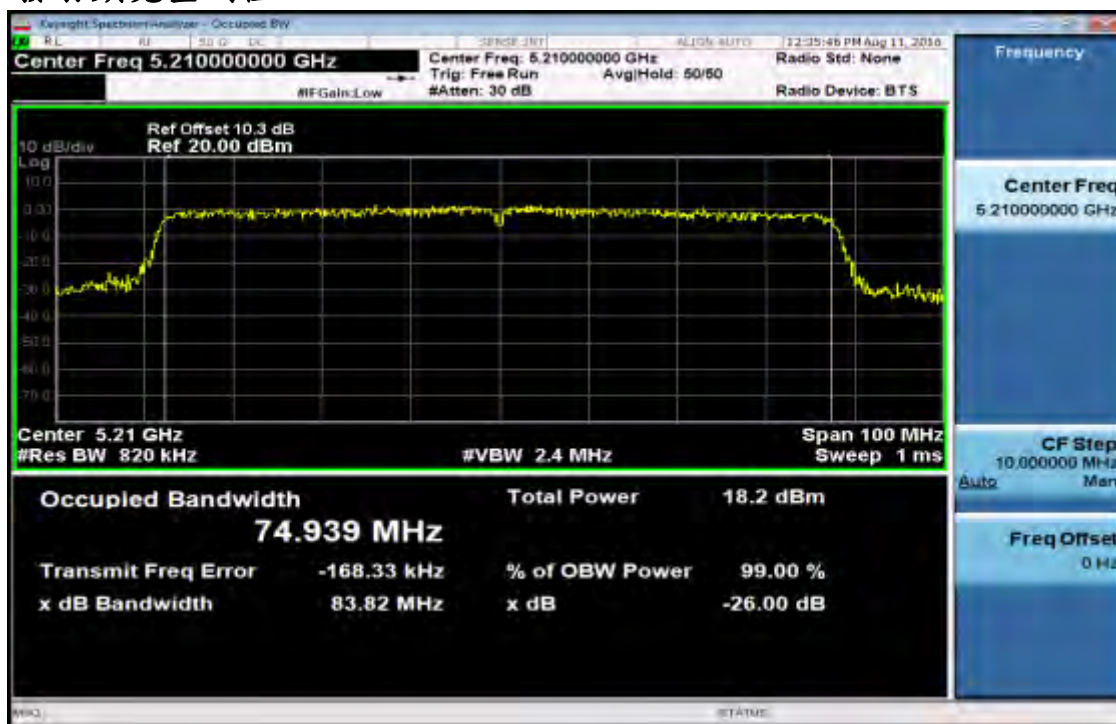
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802.11ac VHT80 Mode Test Data Plot (5150MHz-5250MHz)

CH MID 發射頻寬量測值



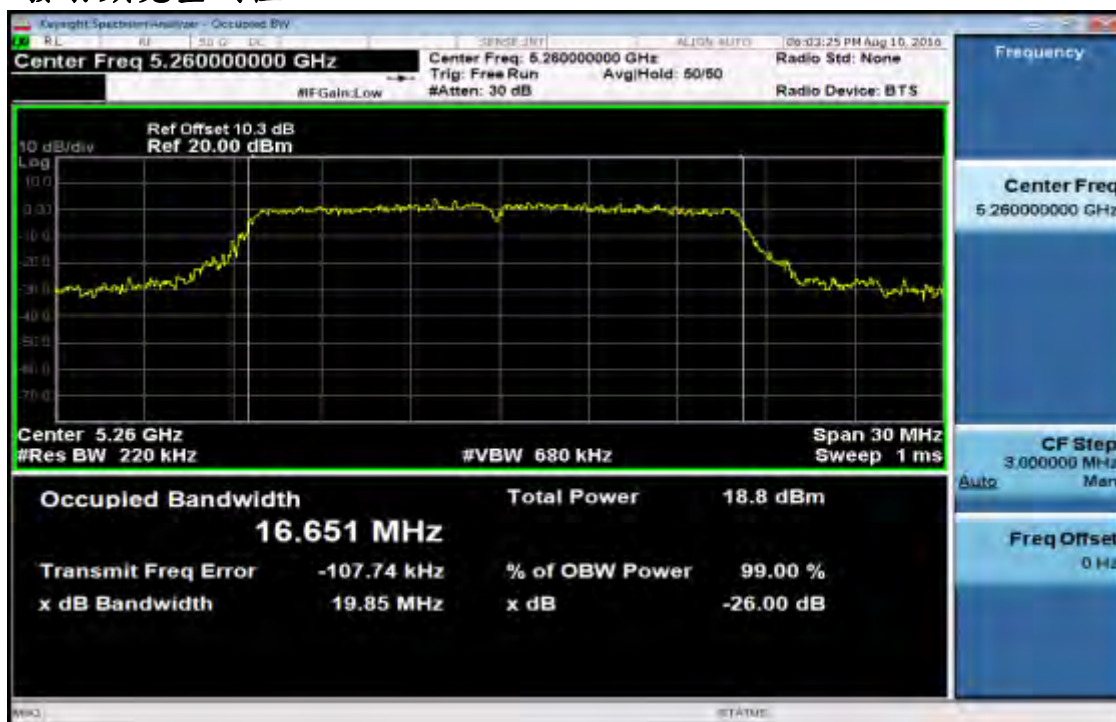
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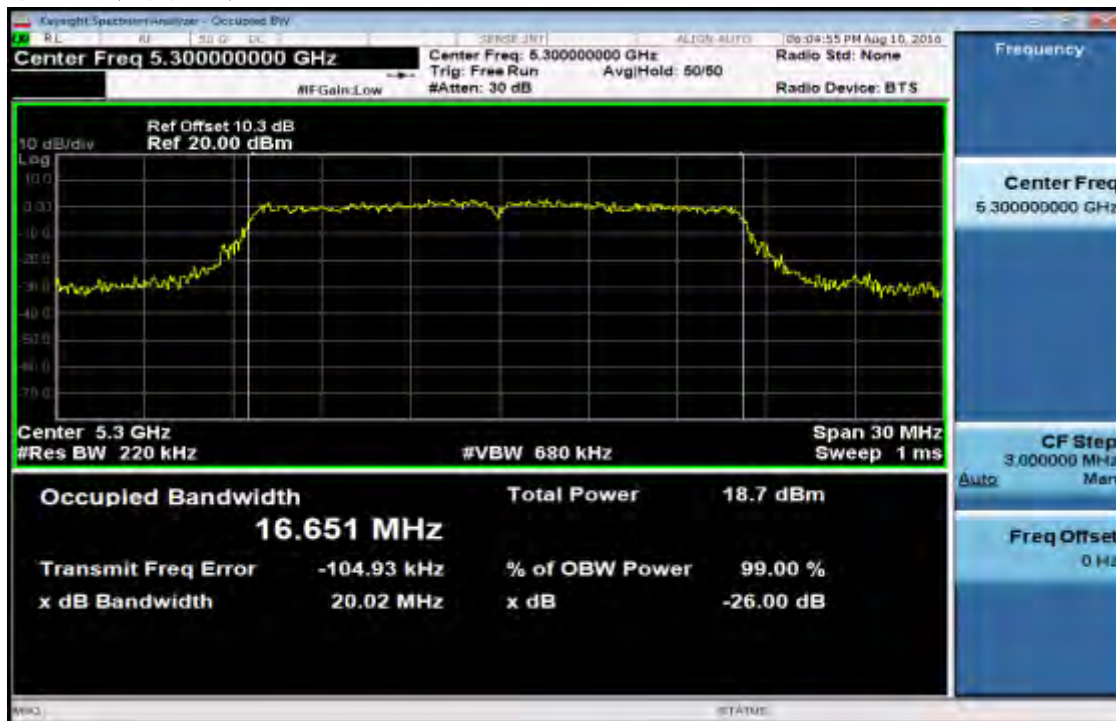
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802.11a Mode Test Data Plot (5250MHz-5350MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值

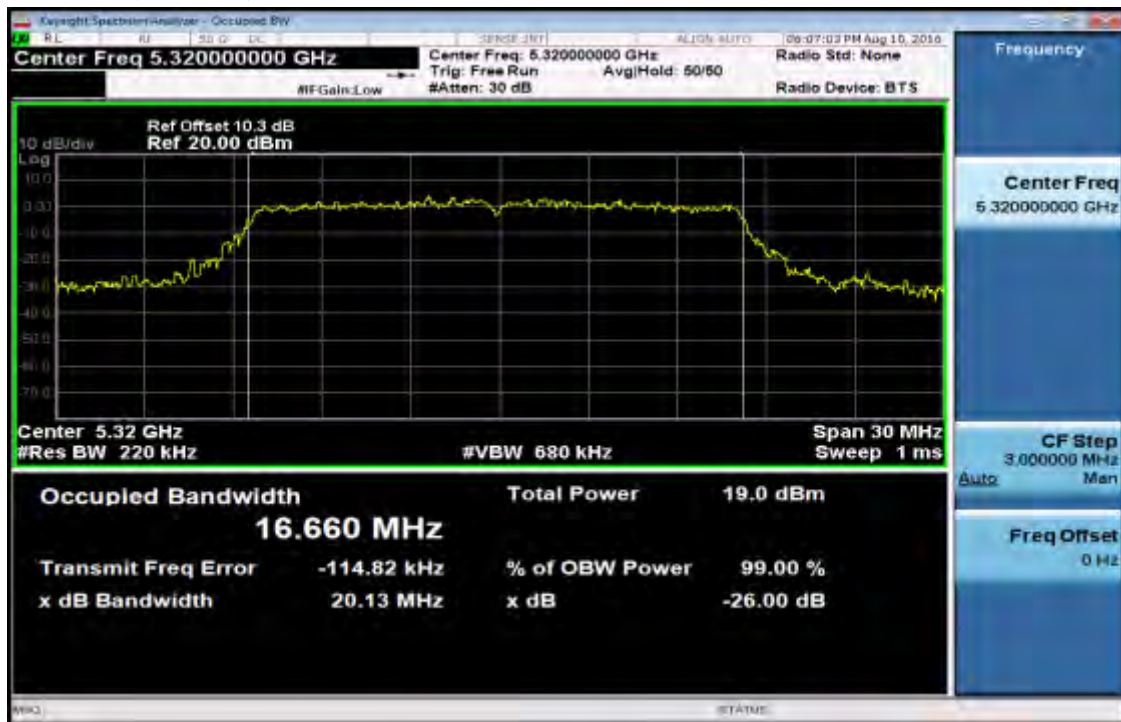


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CH High 發射頻寬量測值



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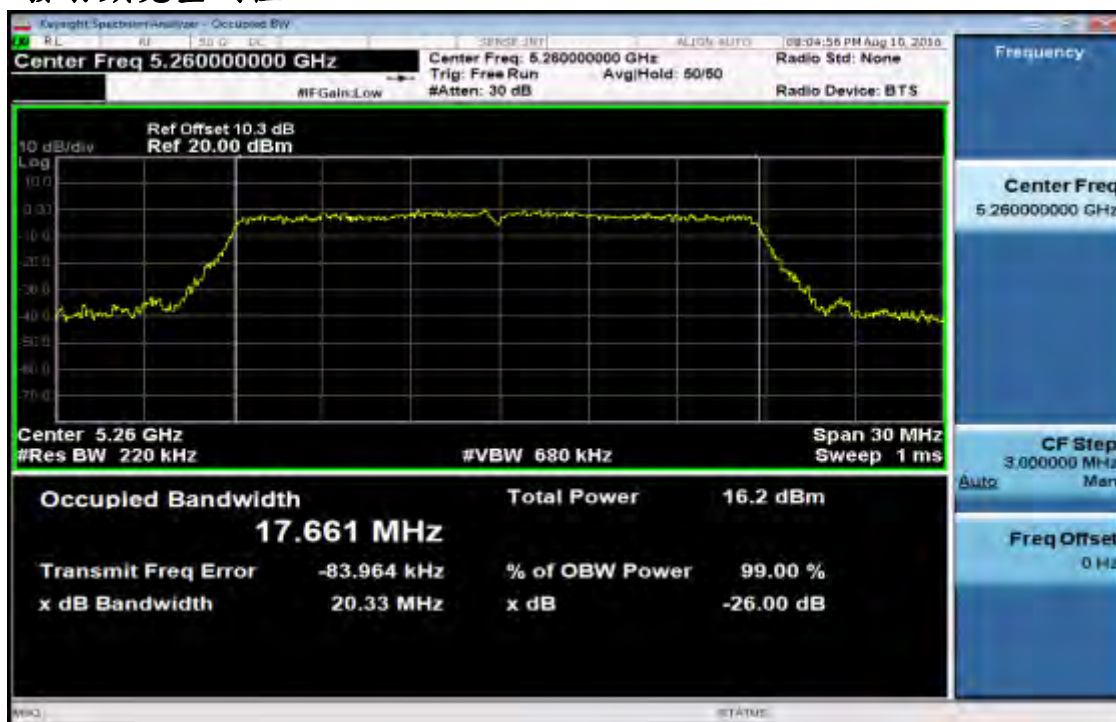
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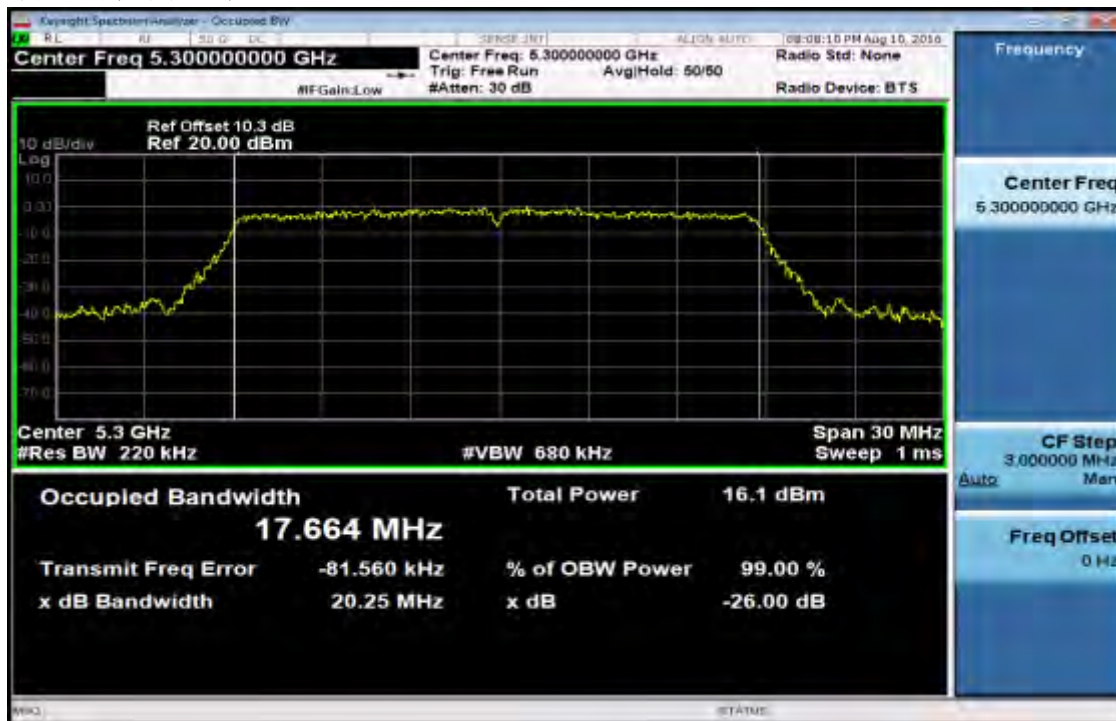
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802.11n HT20 Mode Test Data Plot (5250MHz-5350MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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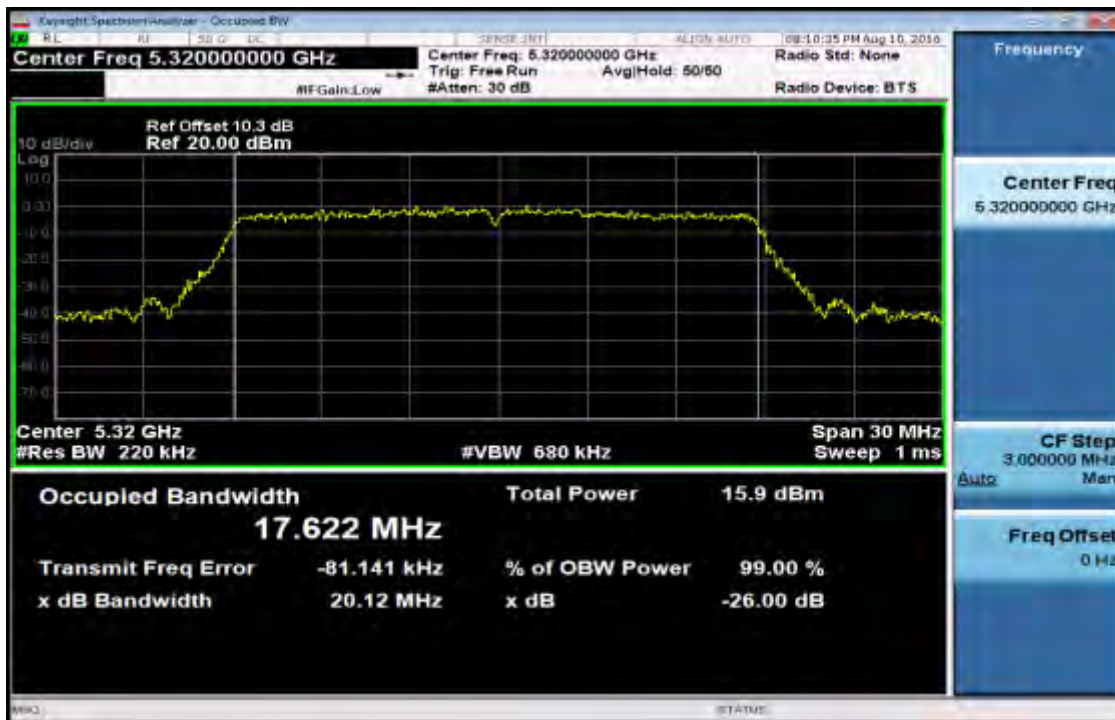
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CH High 發射頻寬量測值



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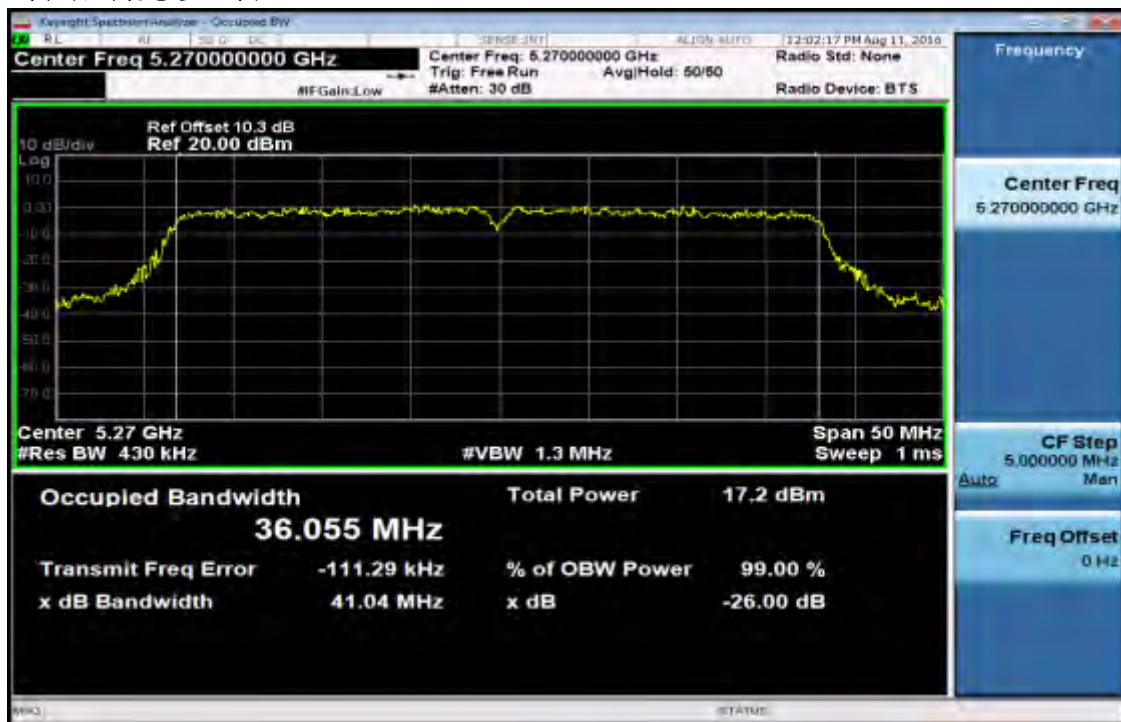
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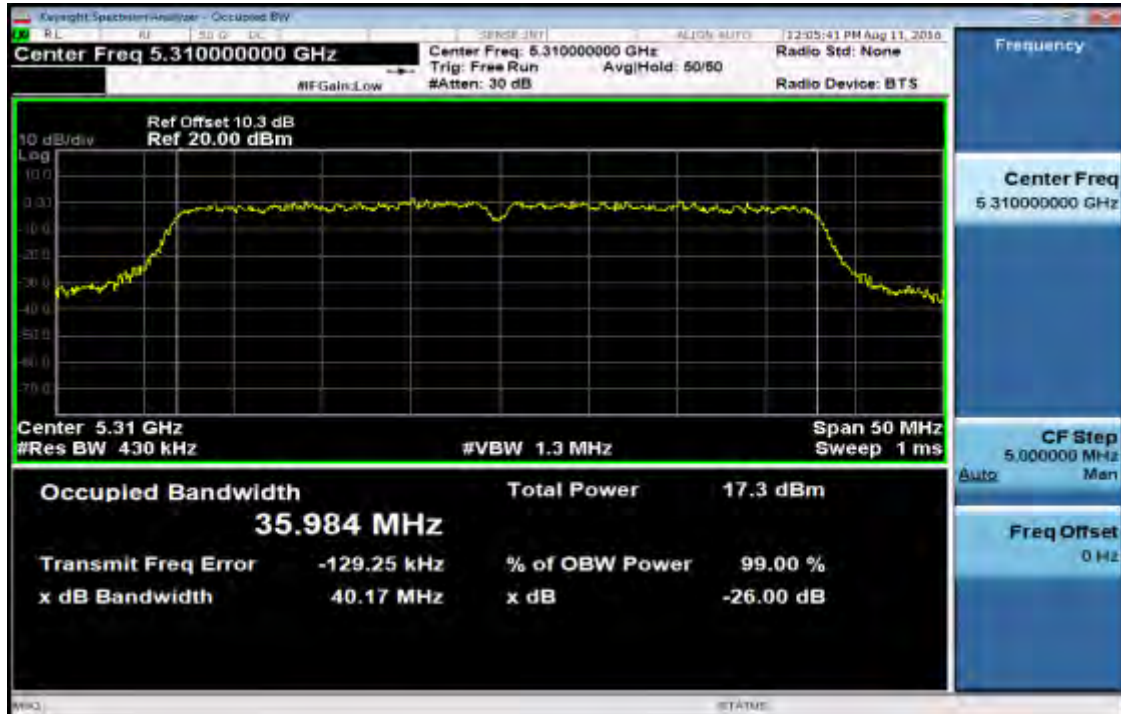
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802.11n HT40 Mode Test Data Plot (5250MHz-5350MHz)

CH Low 發射頻寬量測值



CH High 發射頻寬量測值



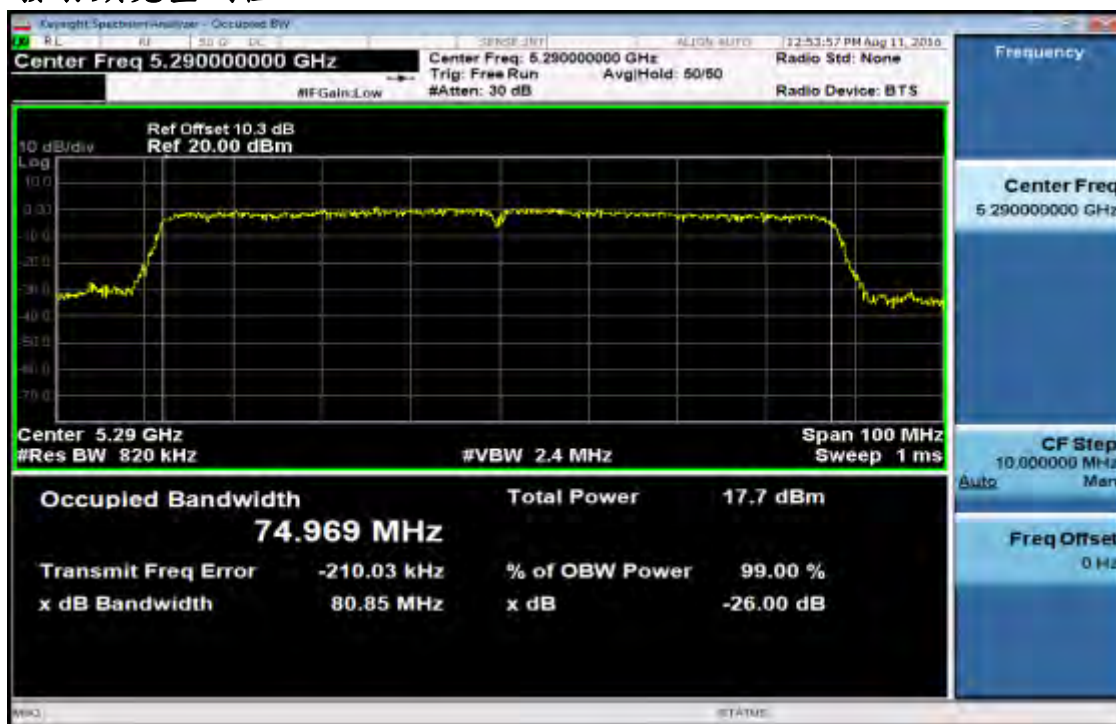
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802.11ac VHT80 Mode Test Data Plot (5250MHz-5350MHz)

CH MID 發射頻寬量測值



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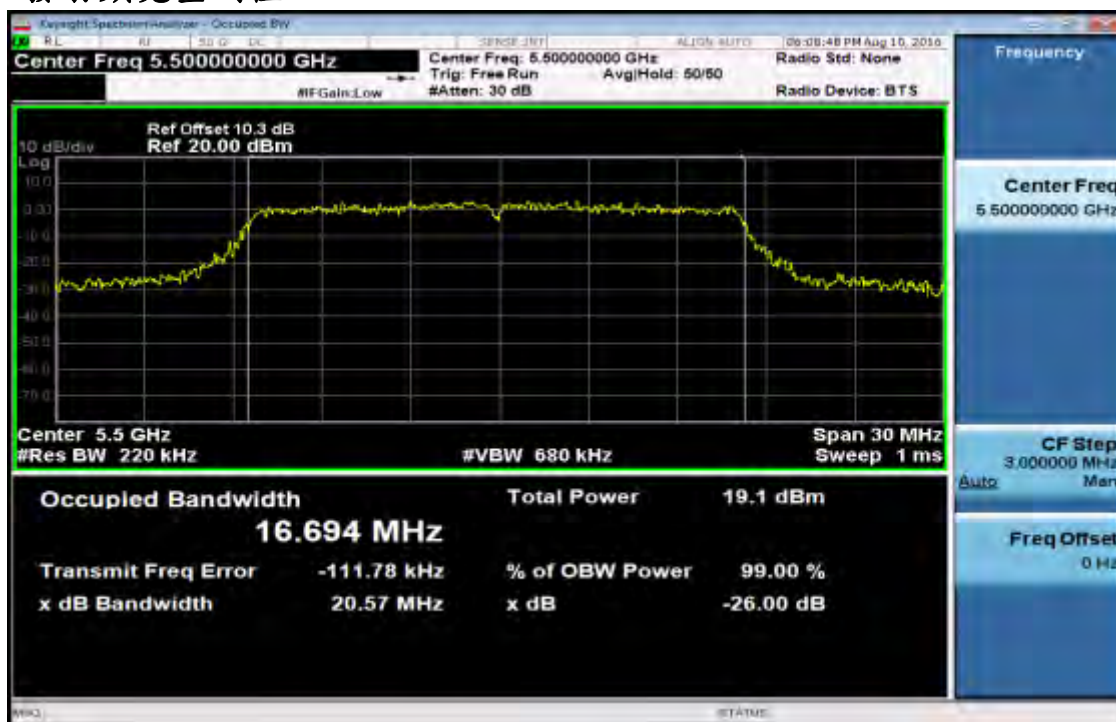
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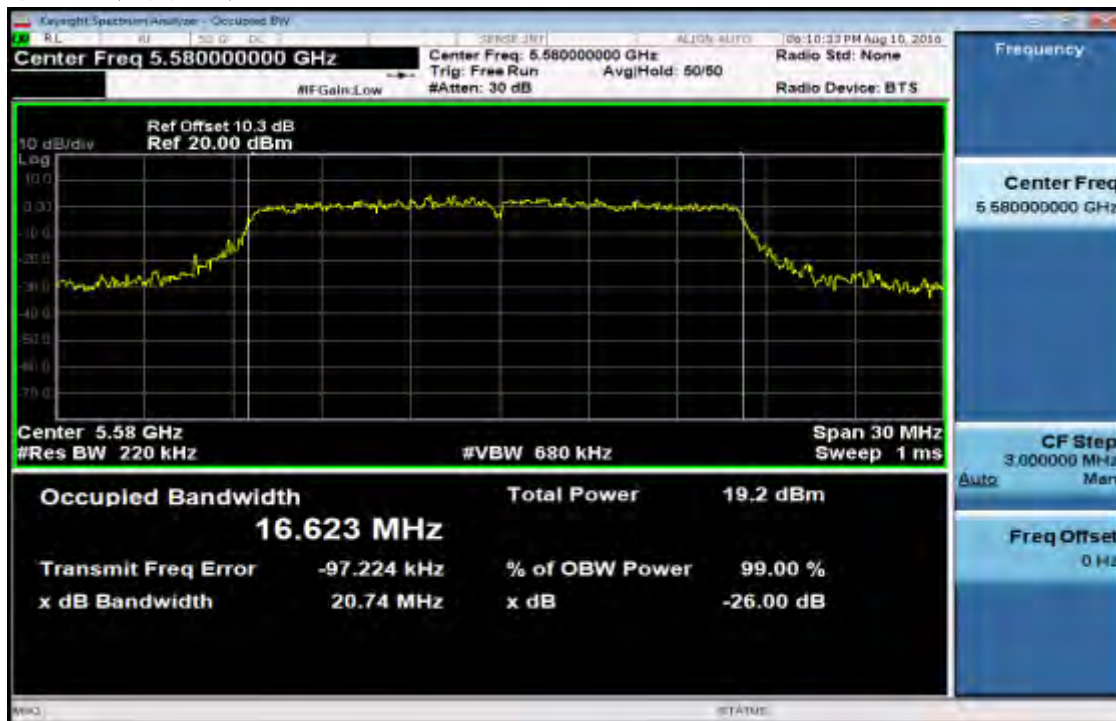
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802.11a Mode Test Data Plot (5470MHz-5725MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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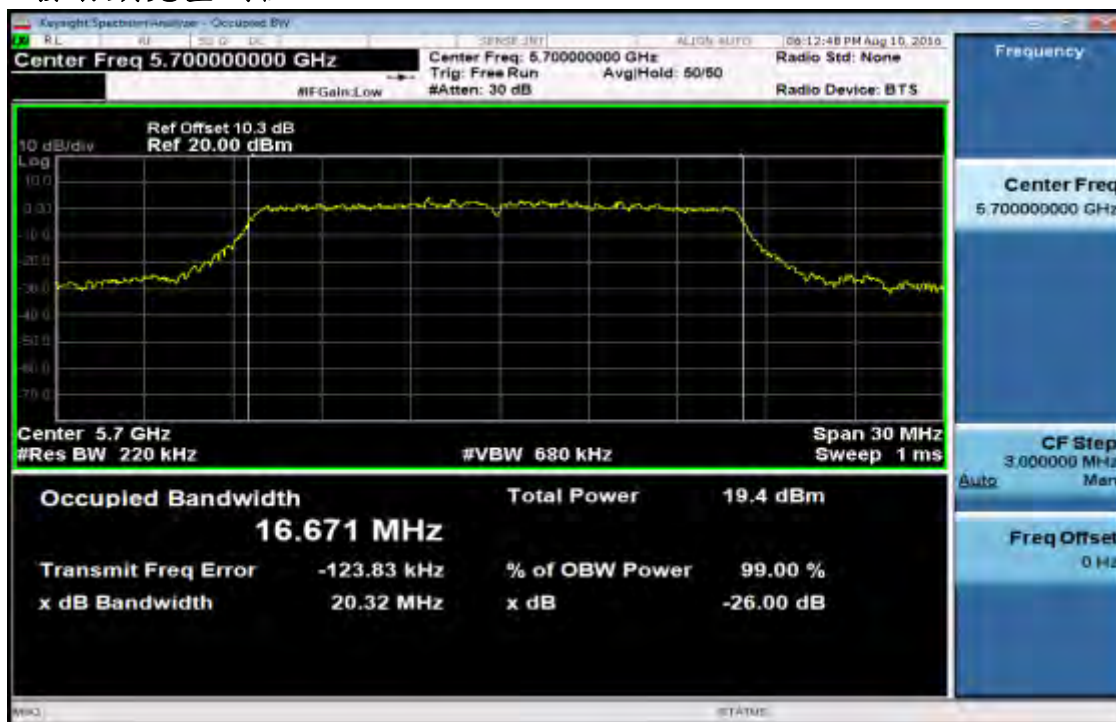
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CH High 發射頻寬量測值



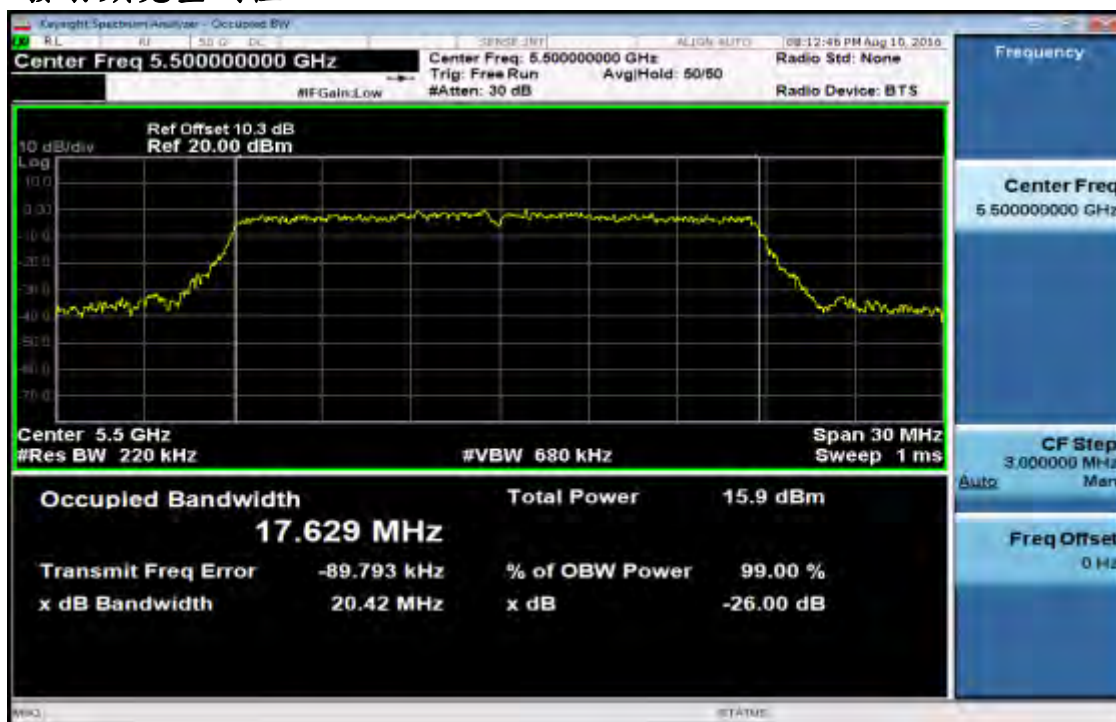
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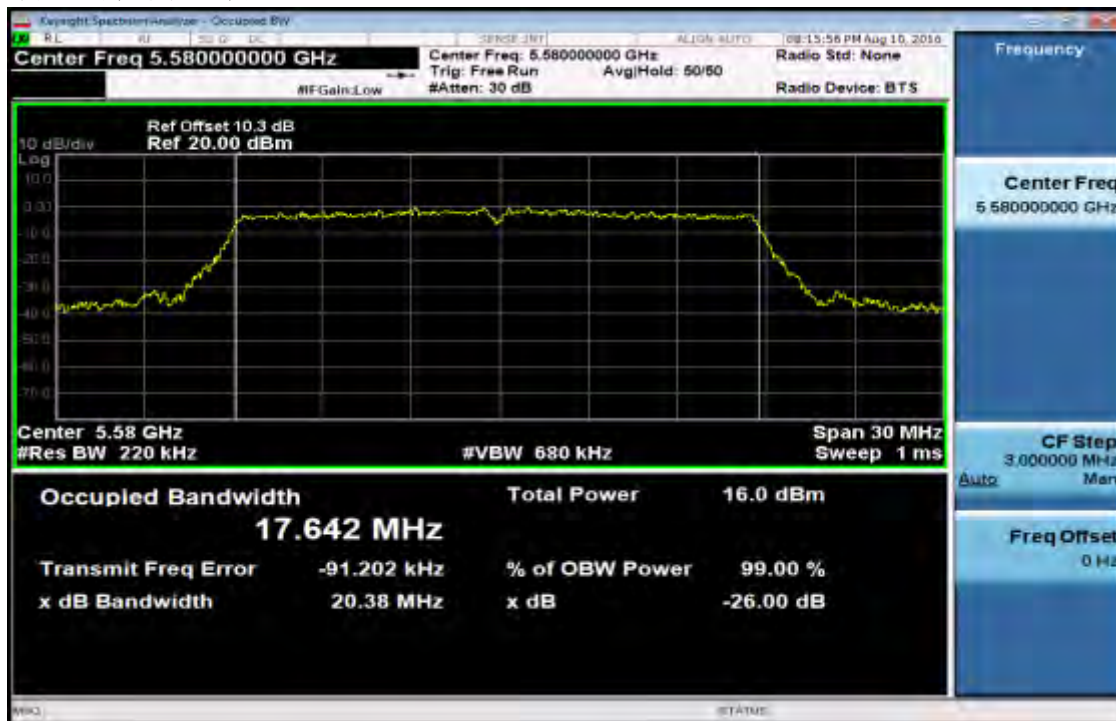
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802.11n HT20 Mode Test Data Plot (5470MHz-5725MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值

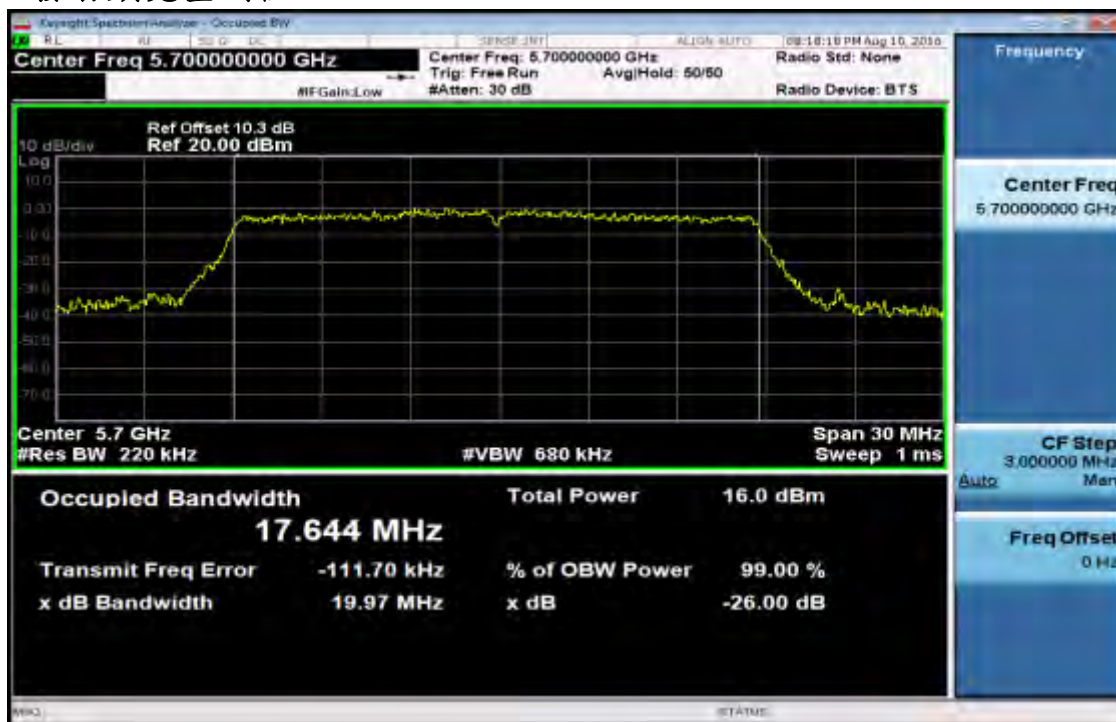


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CH High 發射頻寬量測值



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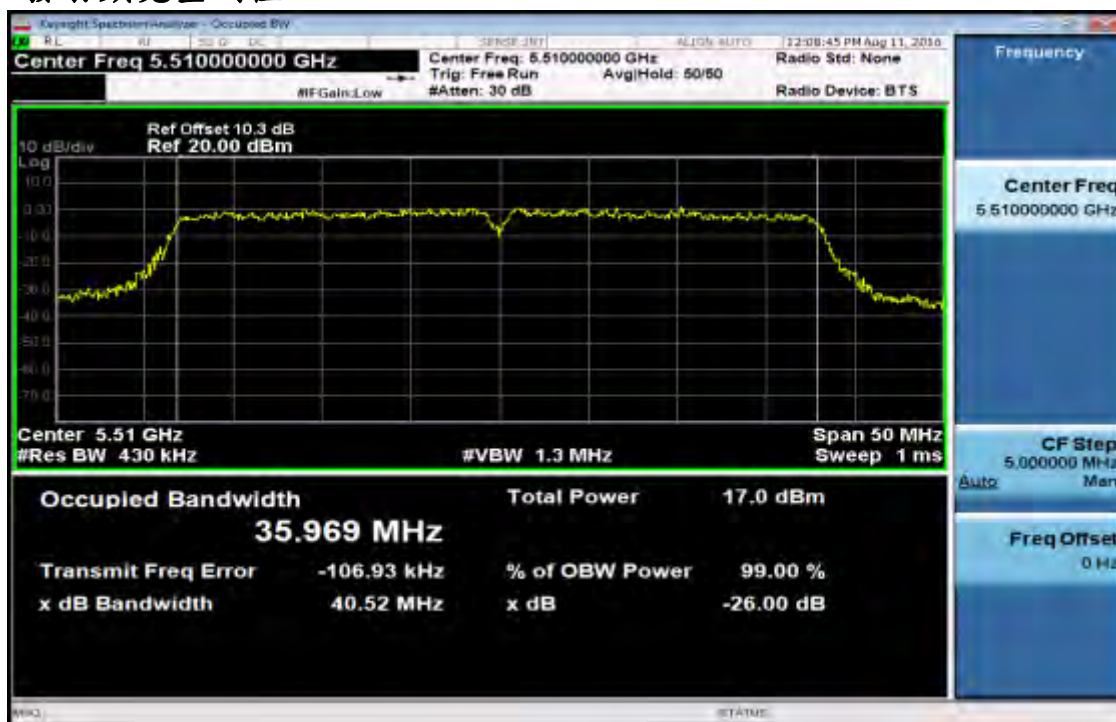
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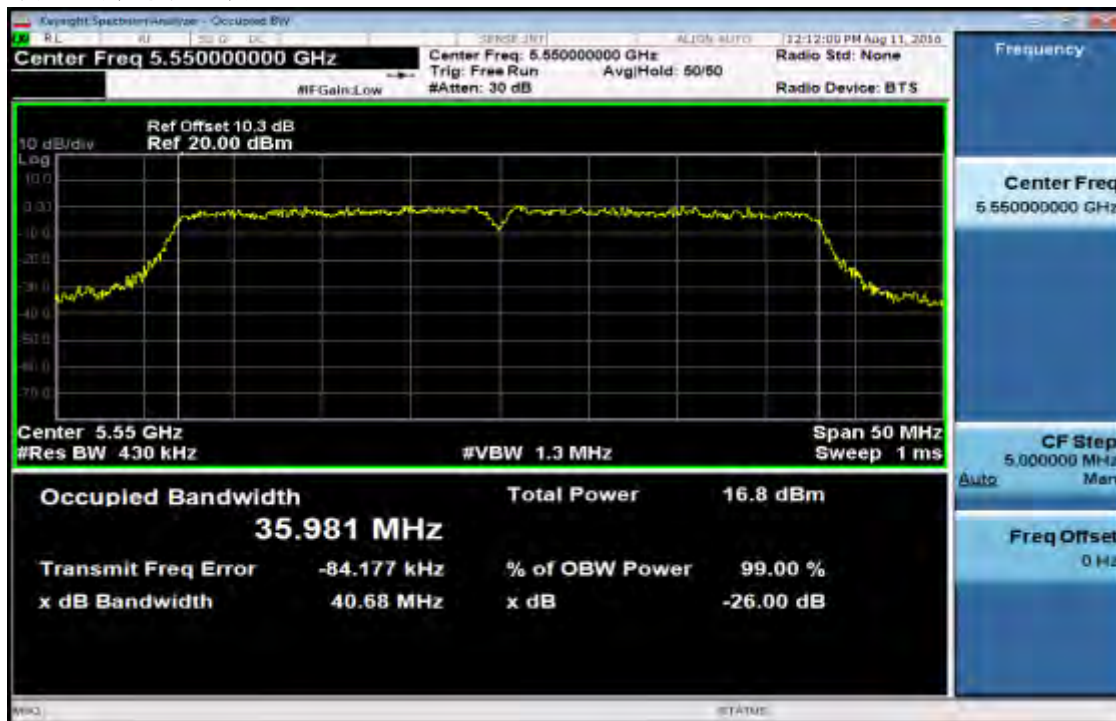
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802.11n HT40 Mode Test Data Plot (5470MHz-5725MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值

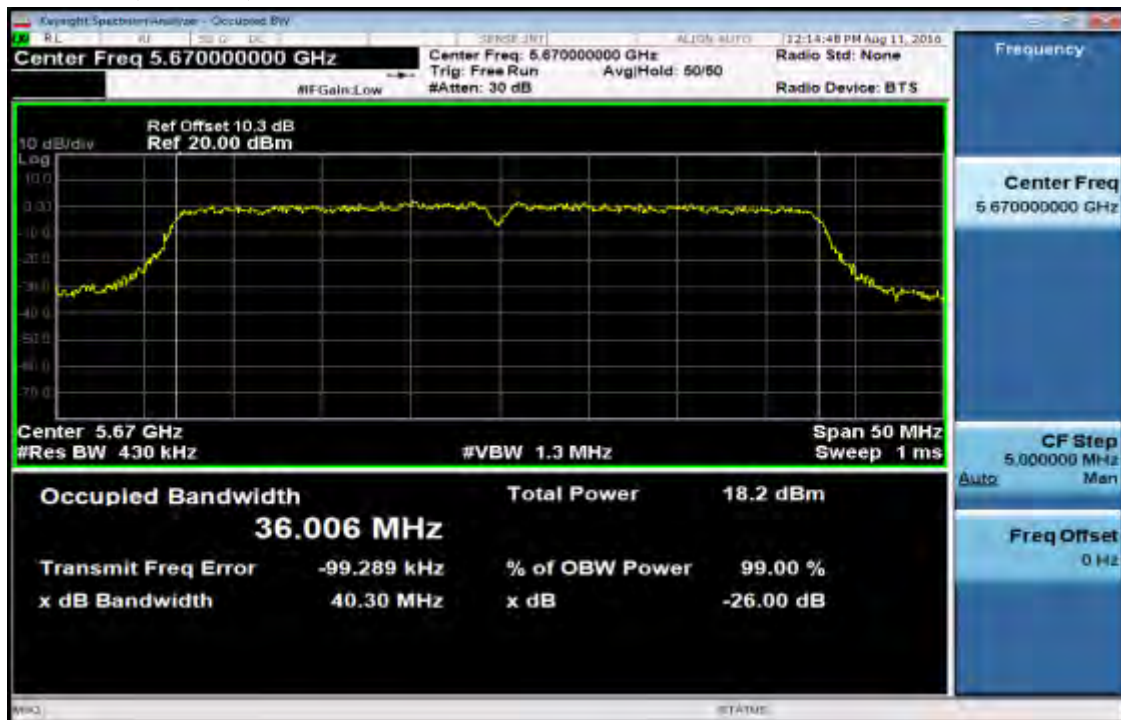


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CH High 發射頻寬量測值



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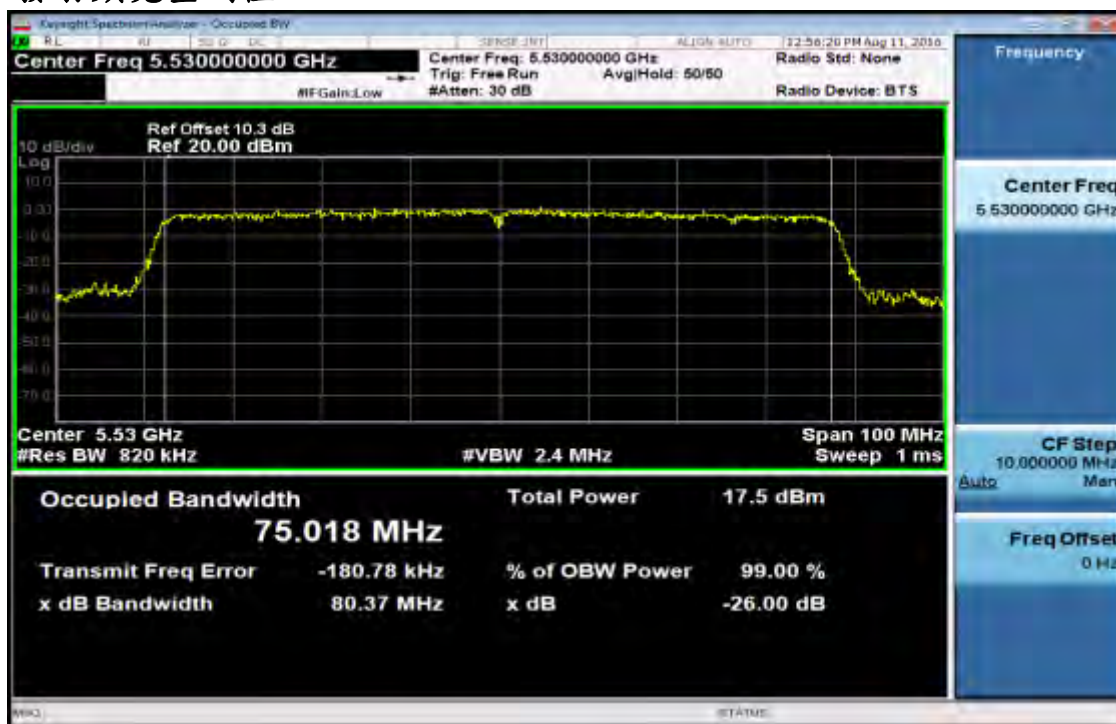
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802.11ac VHT80 Mode Test Data Plot (5470MHz-5725MHz)

CH MID 發射頻寬量測值



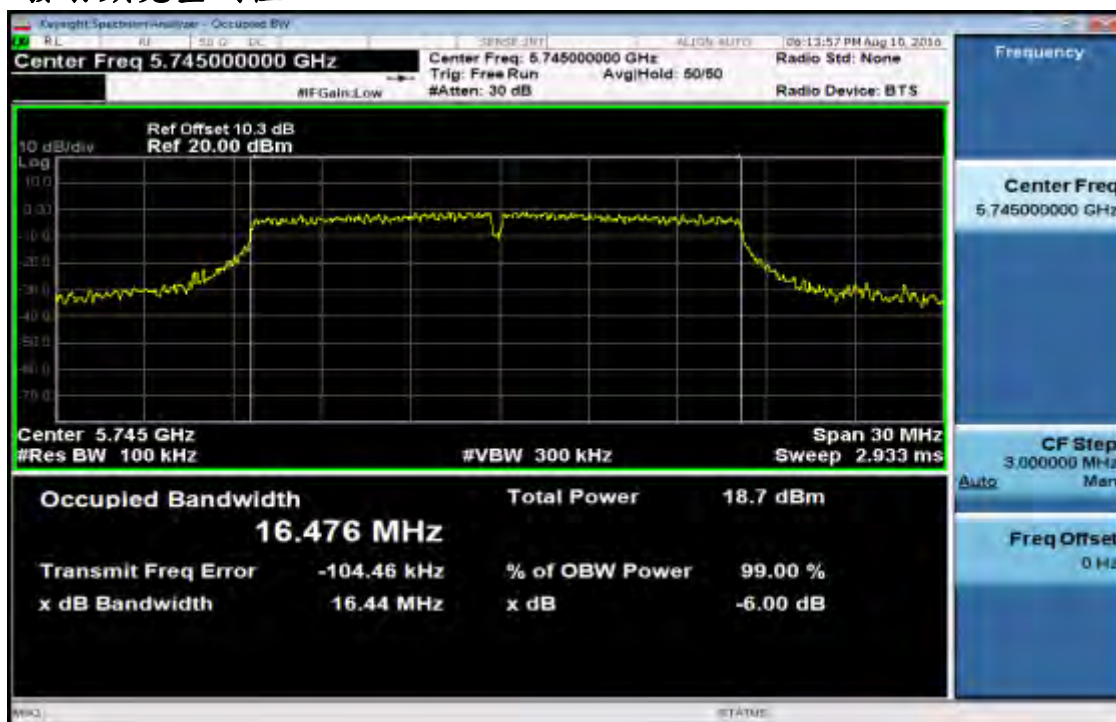
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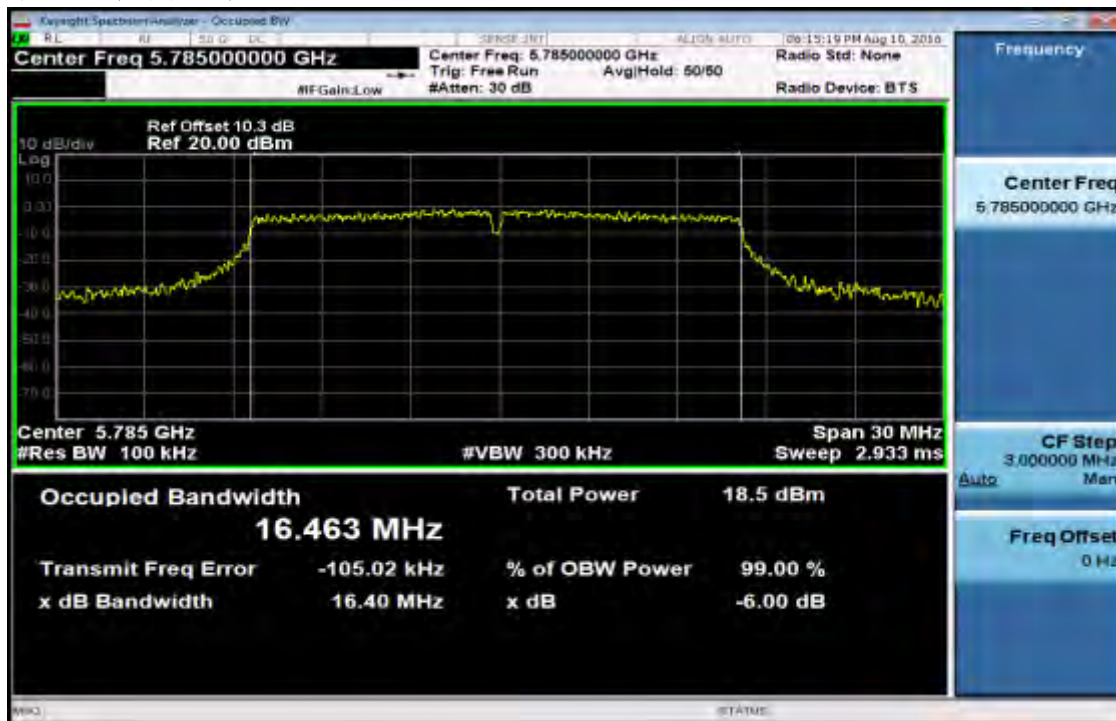
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802.11a Mode Test Data Plot (5725MHz-5850MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值

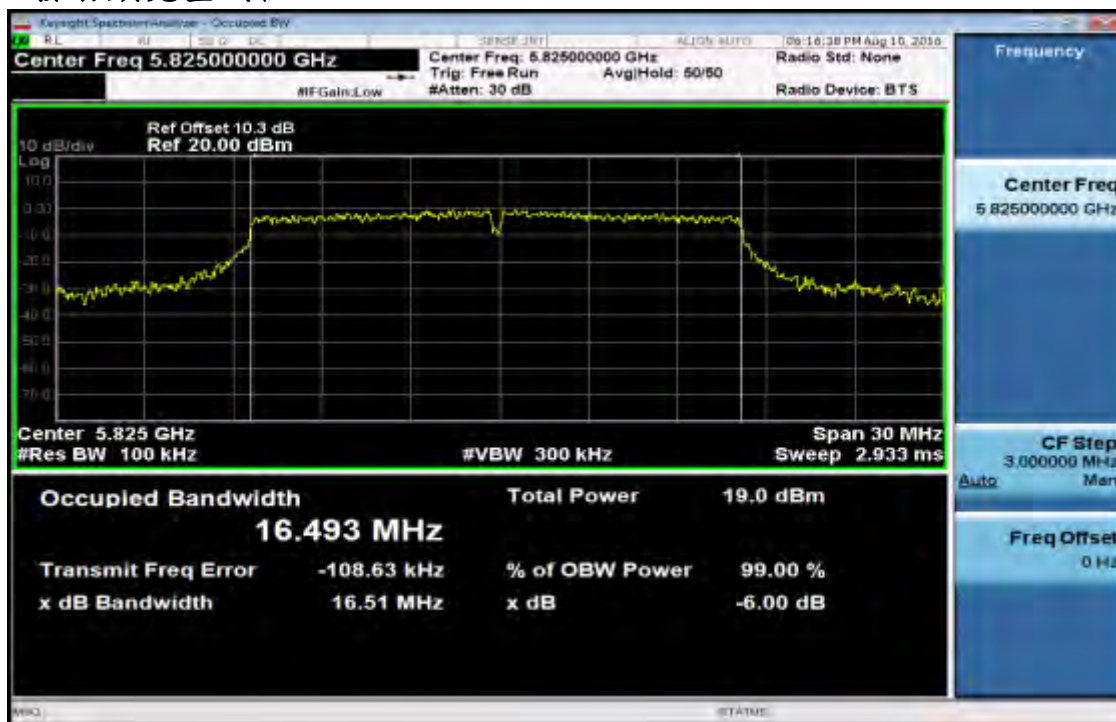


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CH High 發射頻寬量測值



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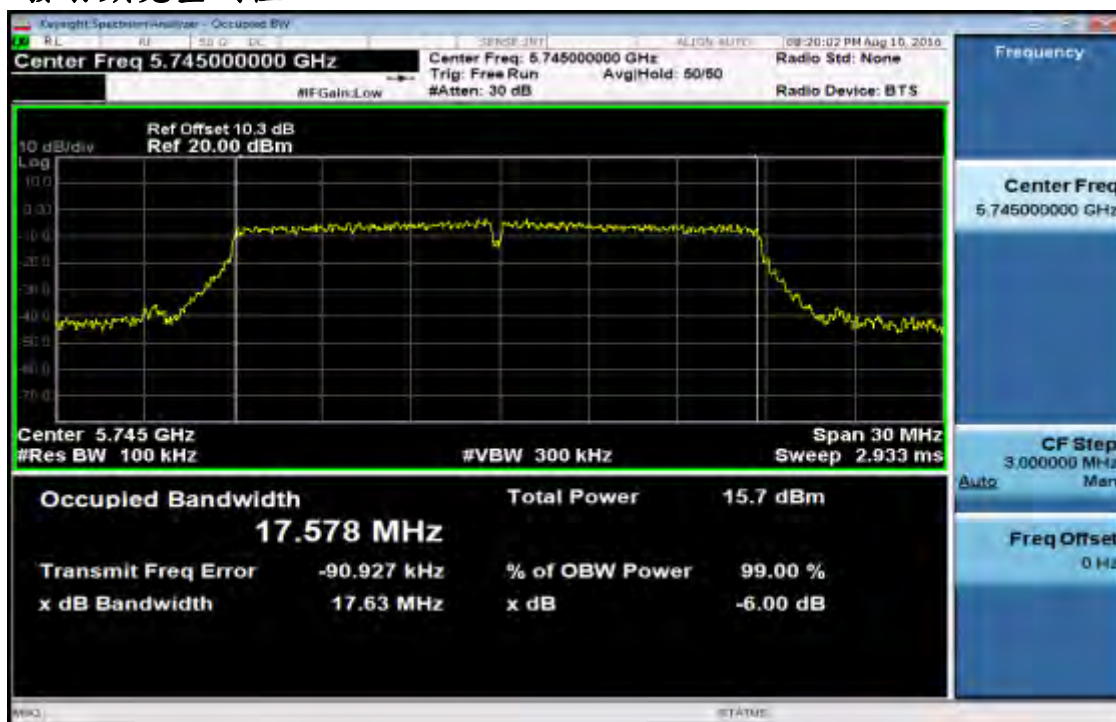
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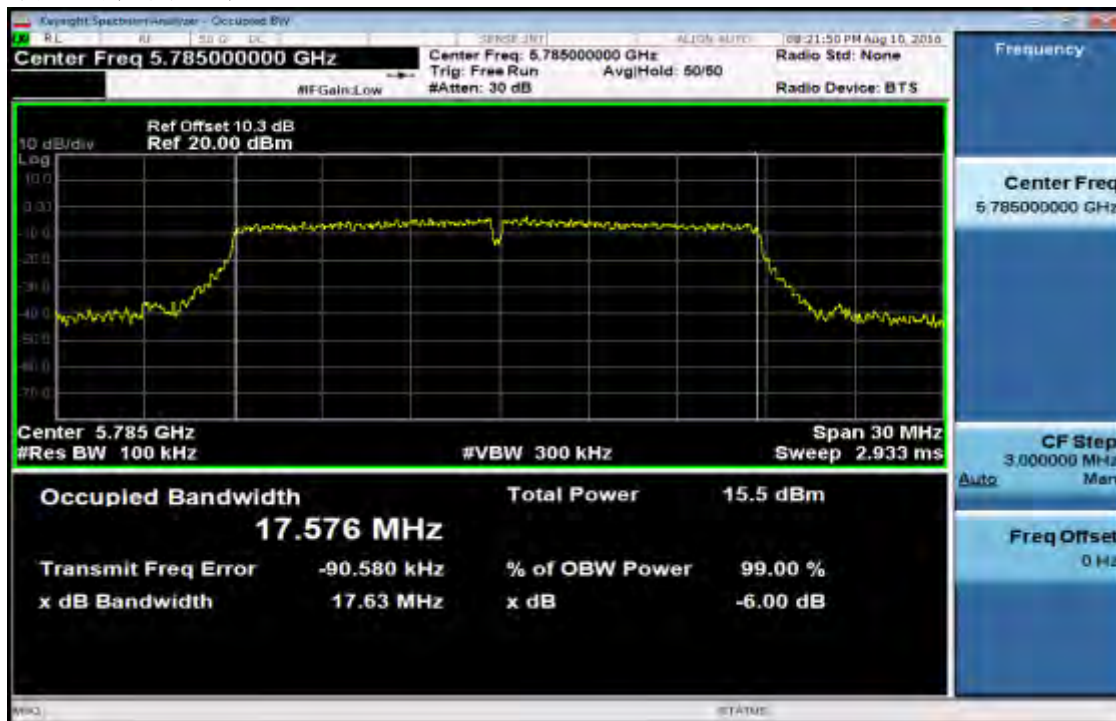
Member of SGS Group

802.11n HT20 Mode Test Data Plot (5725MHz-5850MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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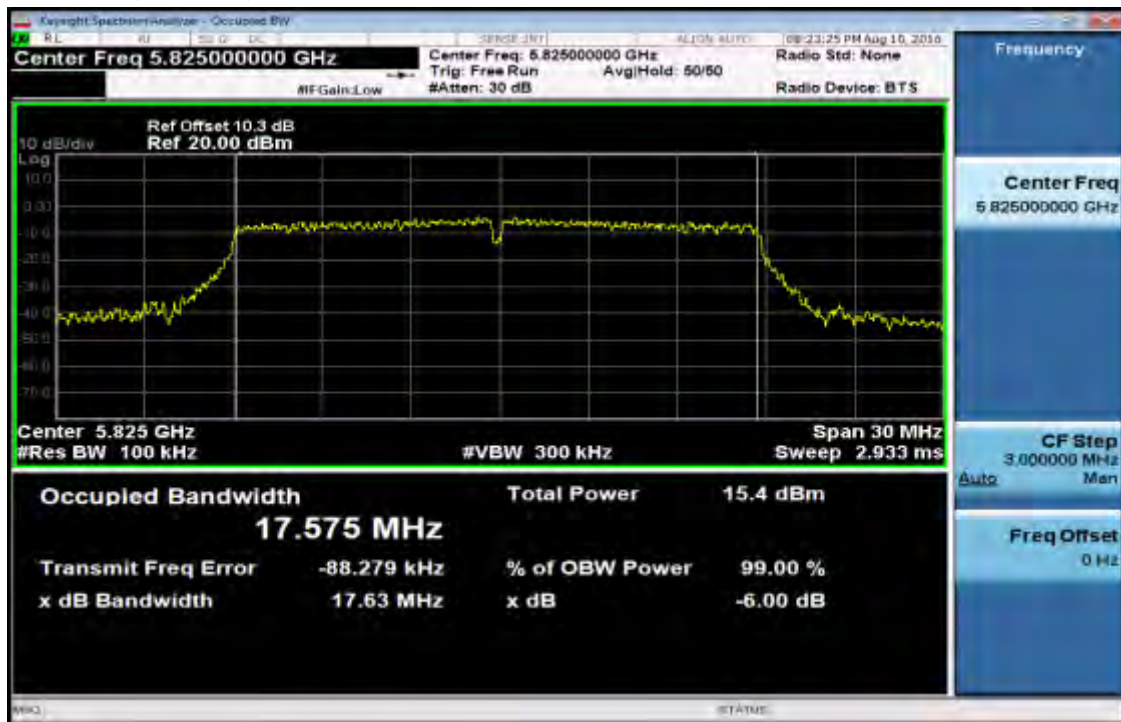
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CH High 發射頻寬量測值



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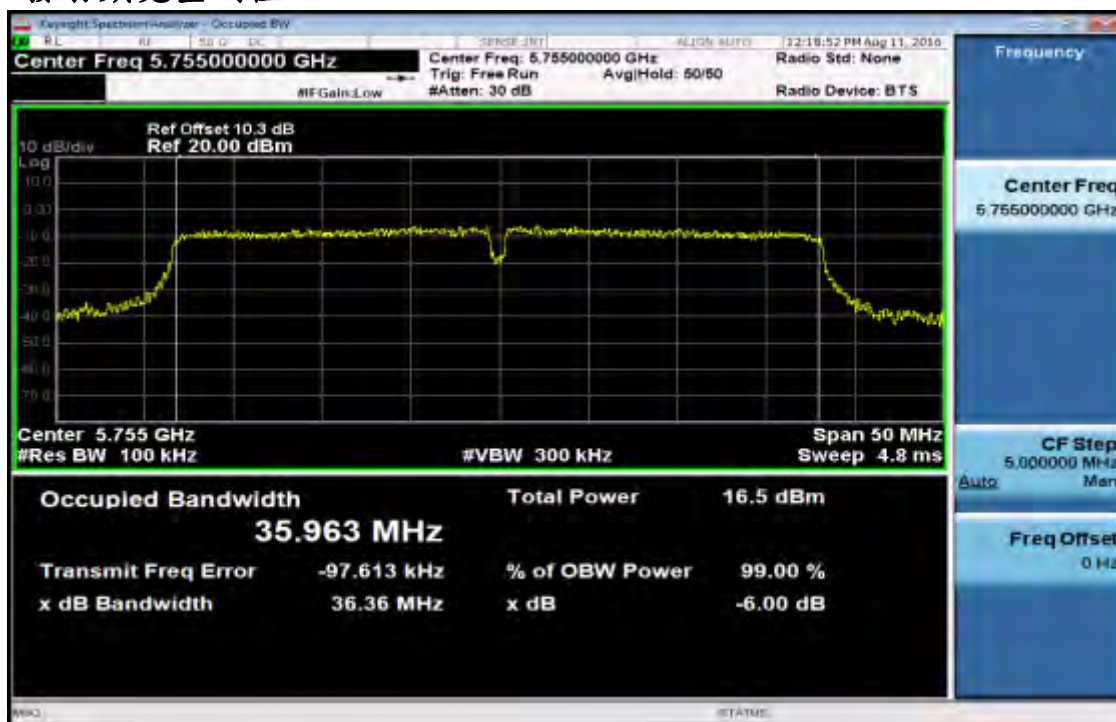
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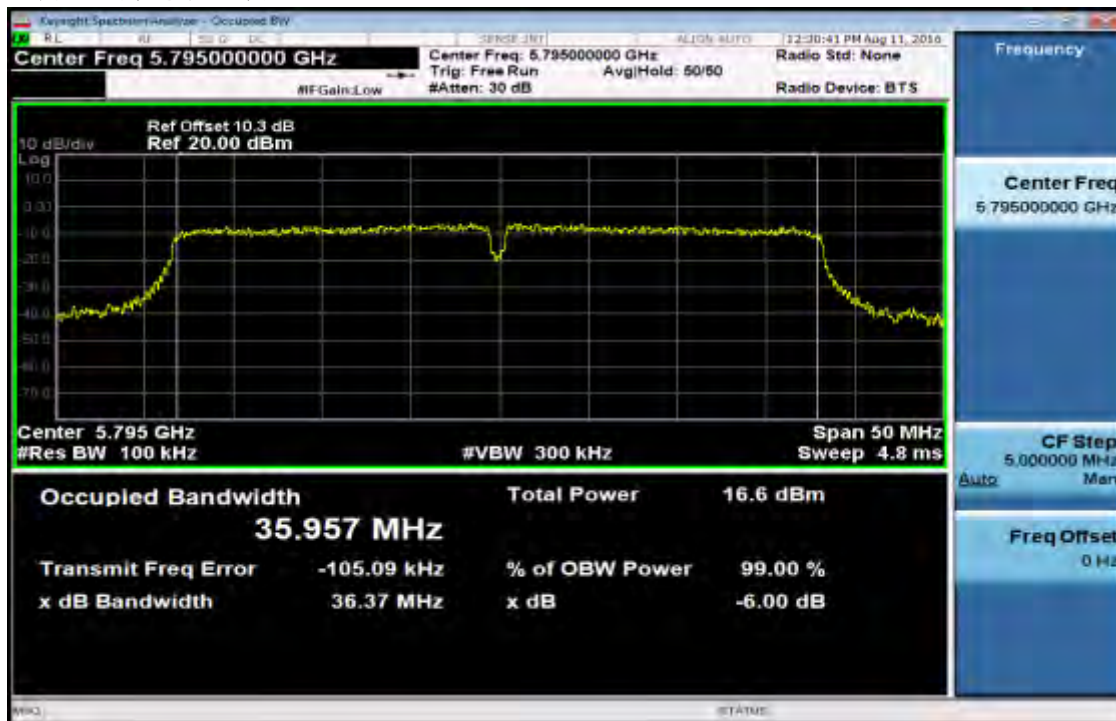
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802.11n HT40 Mode Test Data Plot (5725MHz-5850MHz)

CH Low 發射頻寬量測值



CH High 發射頻寬量測值

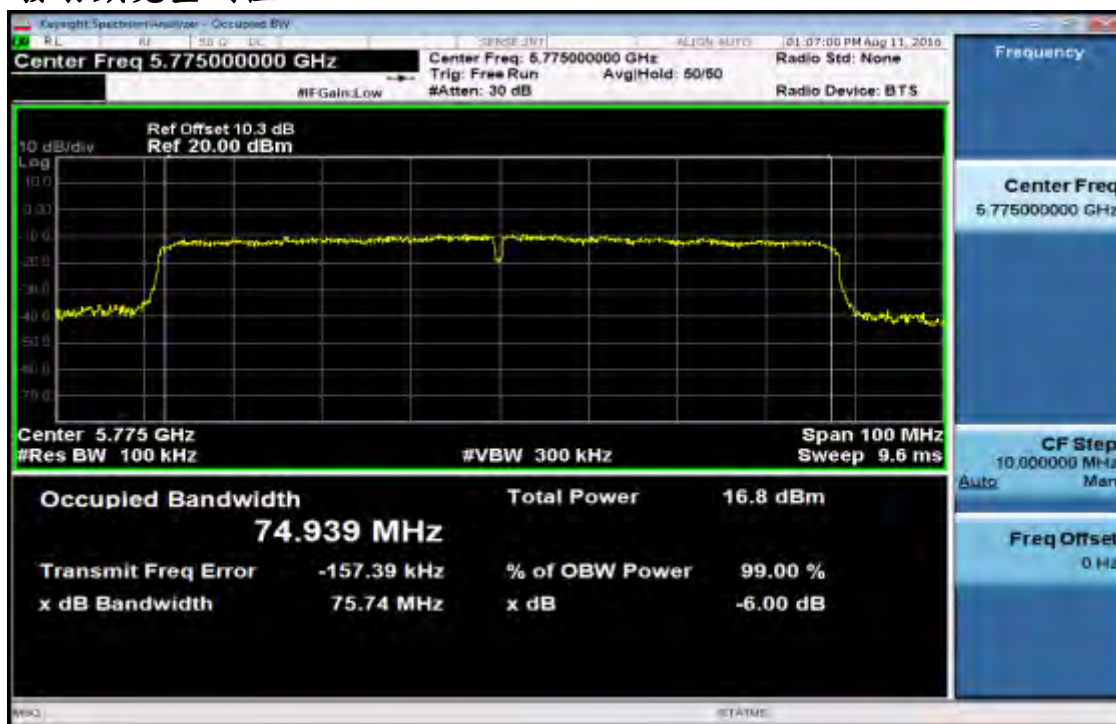


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802.11ac VHT80 Mode Test Data Plot (5725MHz-5850MHz) CH MID 發射頻寬量測值



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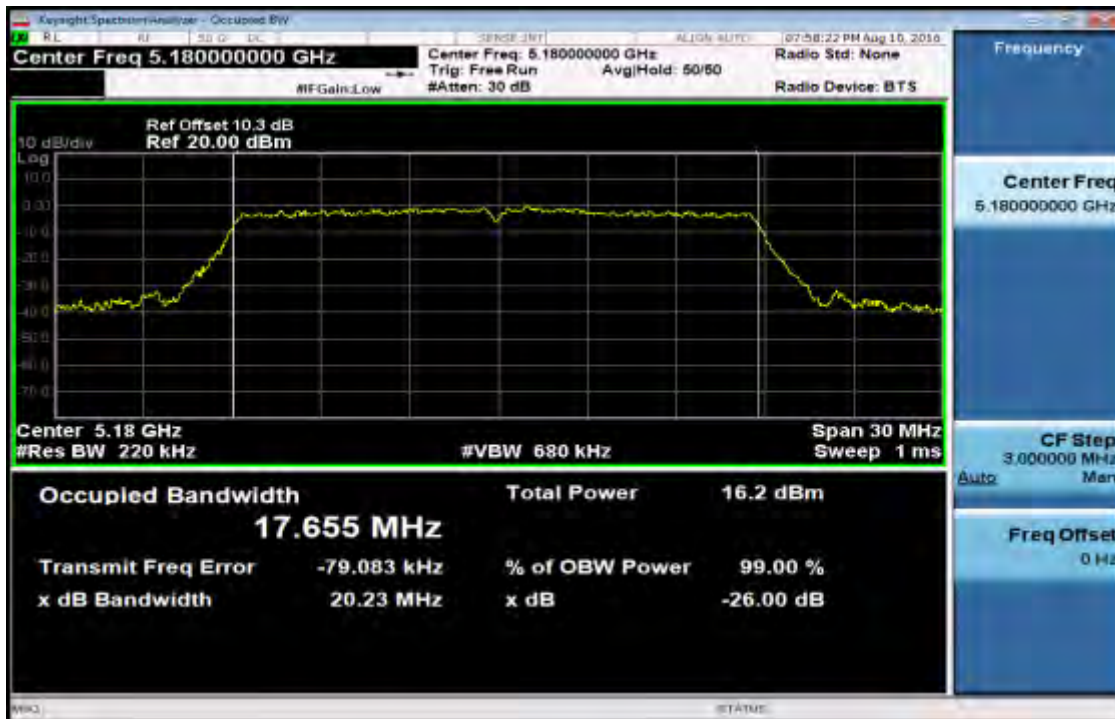
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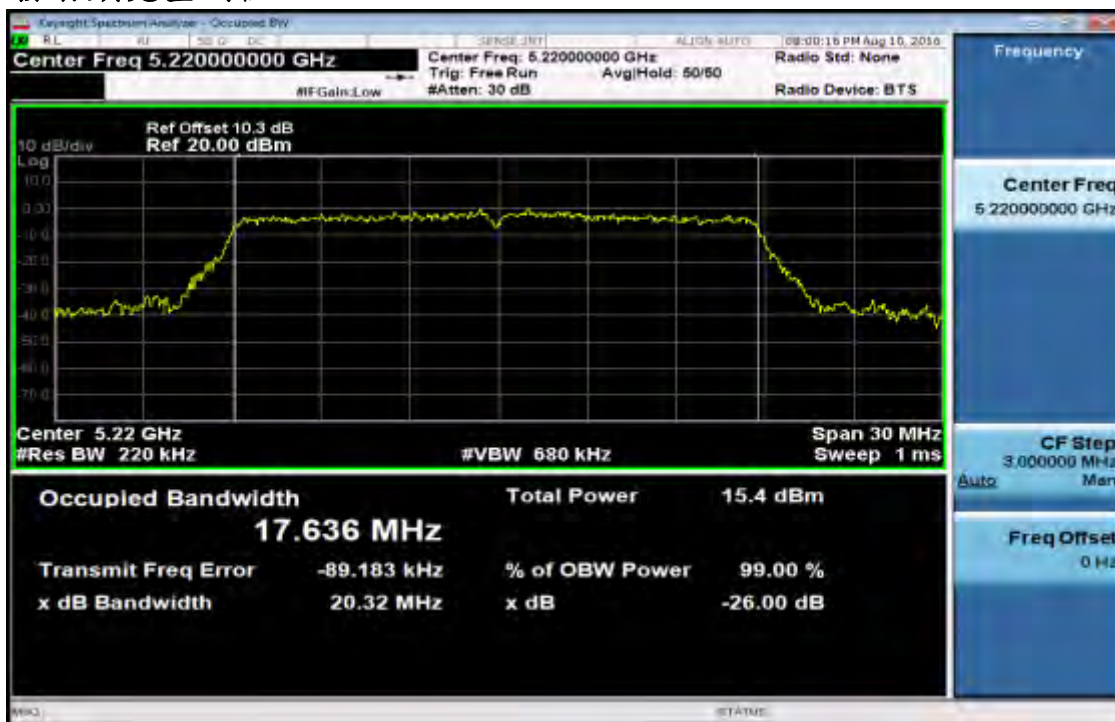
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8.5 測試結果

802.11n HT20 Mode Test Data Plot (5150MHz-5250MHz) (Aux)
CH Low 發射頻寬量測值

CH Mid 發射頻寬量測值

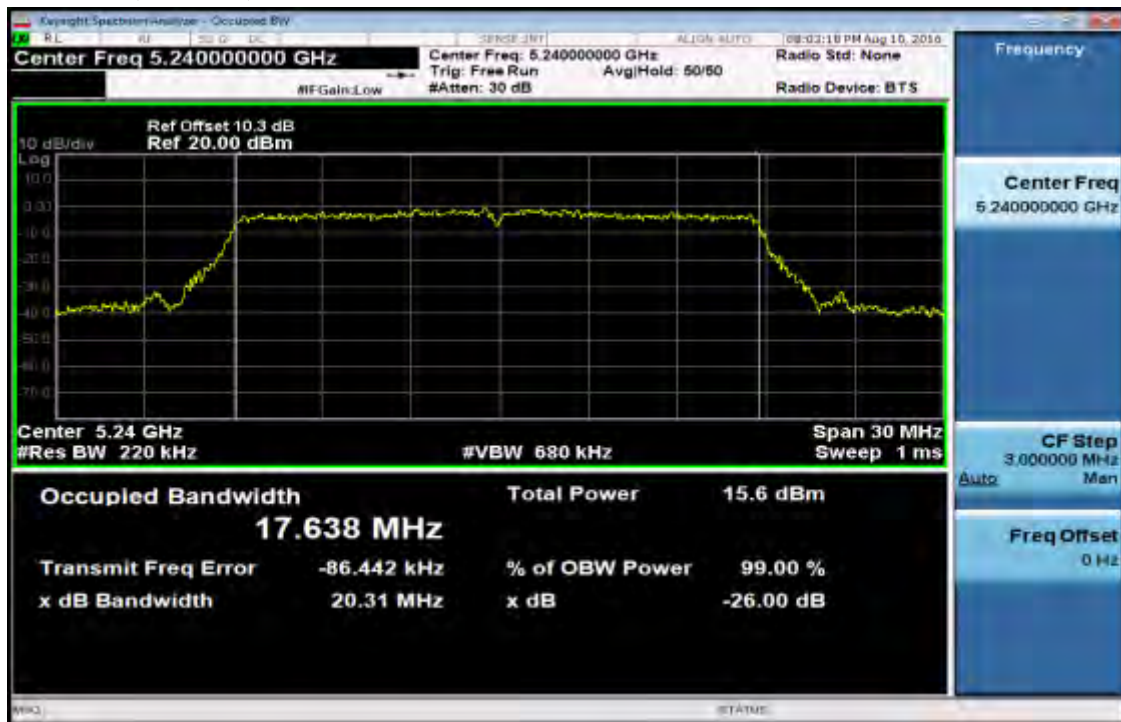


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CH High 發射頻寬量測值



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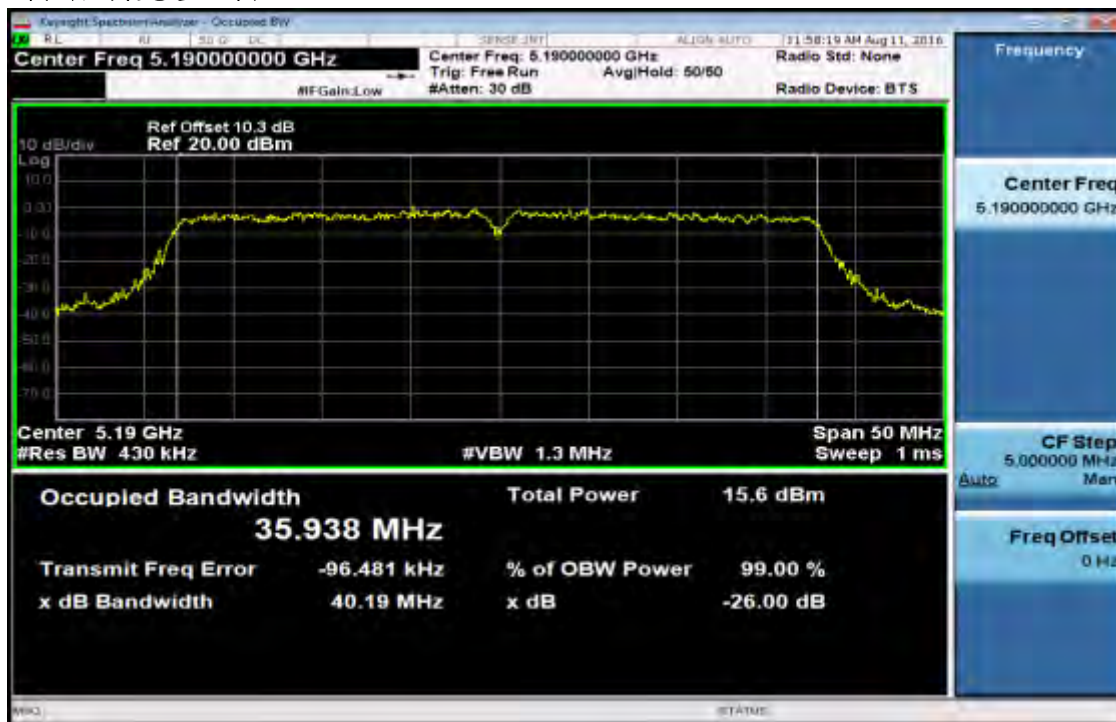
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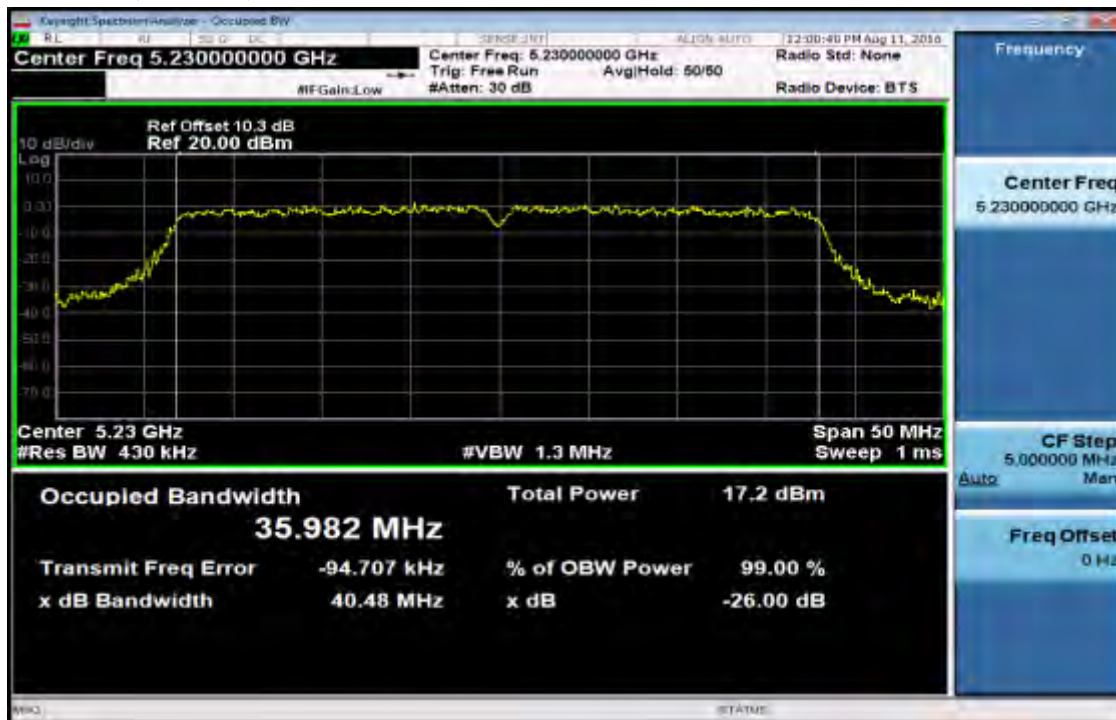
Member of SGS Group

802.11n HT40 Mode Test Data Plot (5150MHz-5250MHz)

CH Low 發射頻寬量測值



CH High 發射頻寬量測值



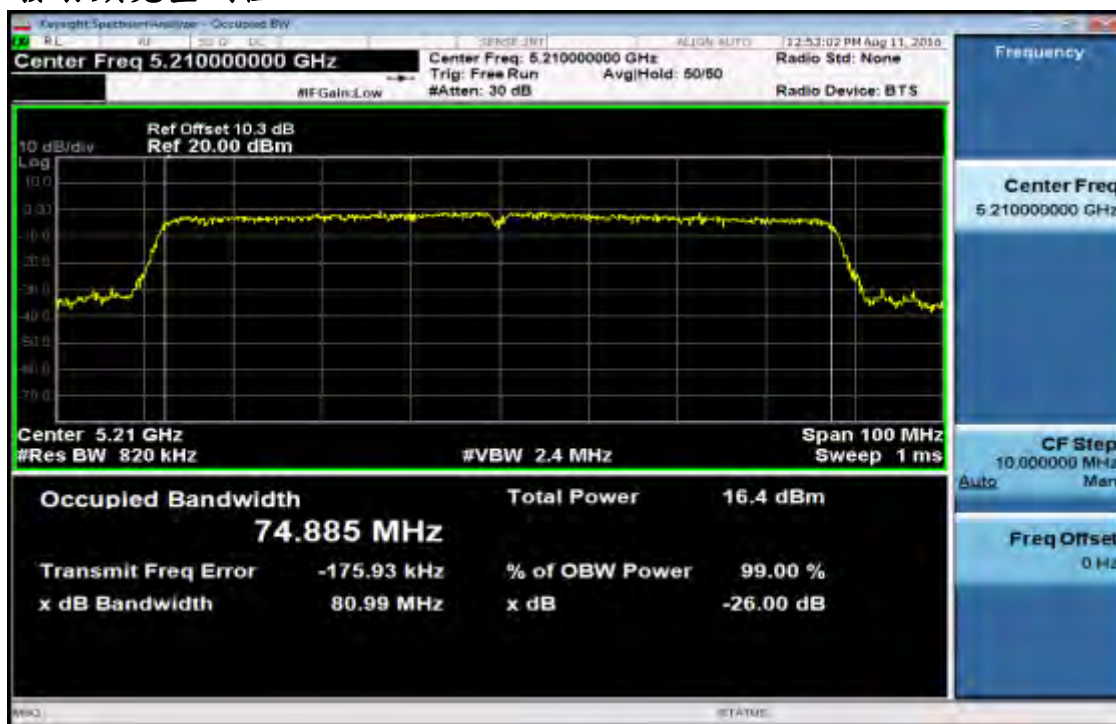
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802.11ac VHT80 Mode Test Data Plot (5150MHz-5250MHz)

CH MID 發射頻寬量測值



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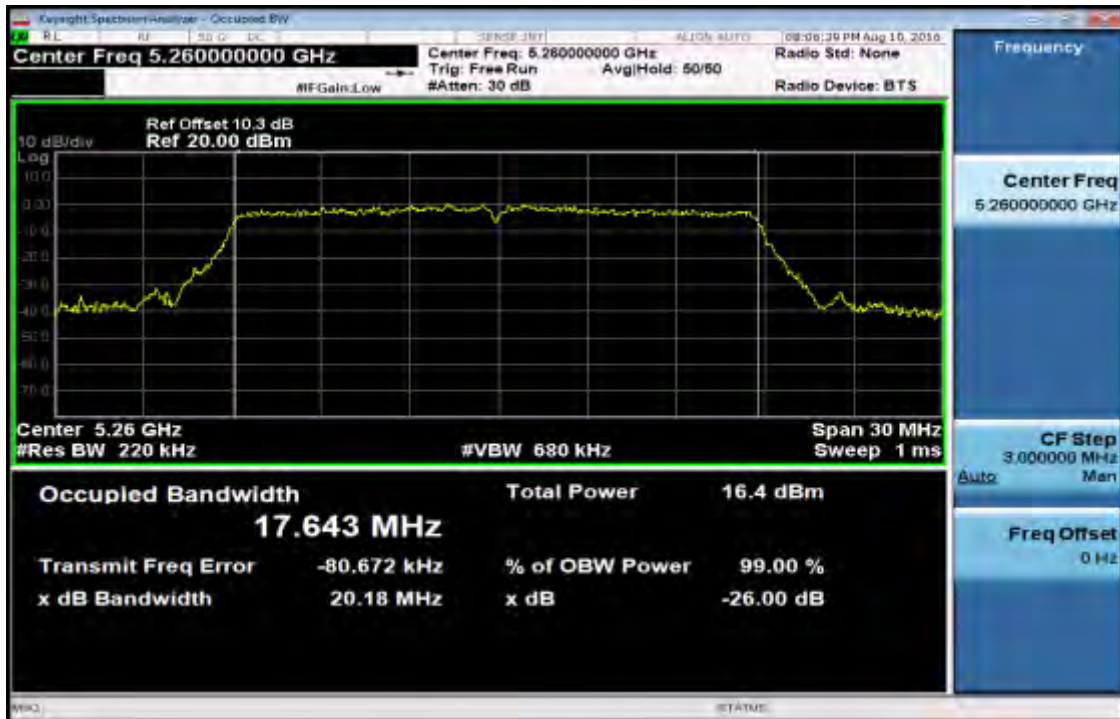
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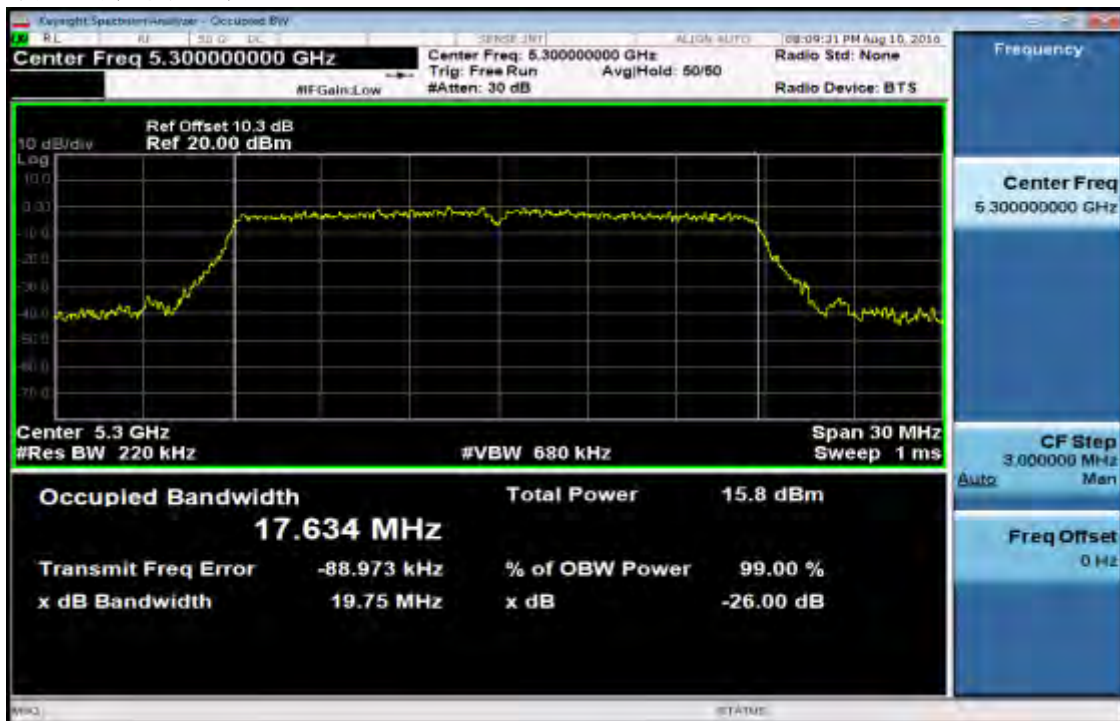
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802.11n HT20 Mode Test Data Plot (5250MHz-5350MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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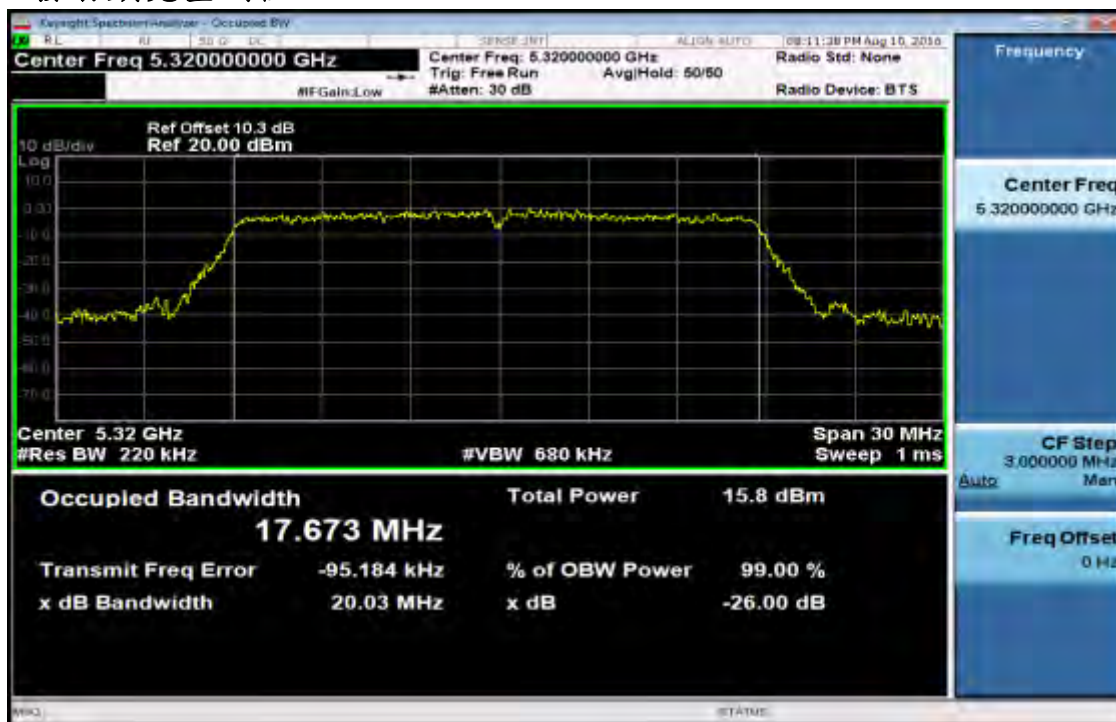
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CH High 發射頻寬量測值



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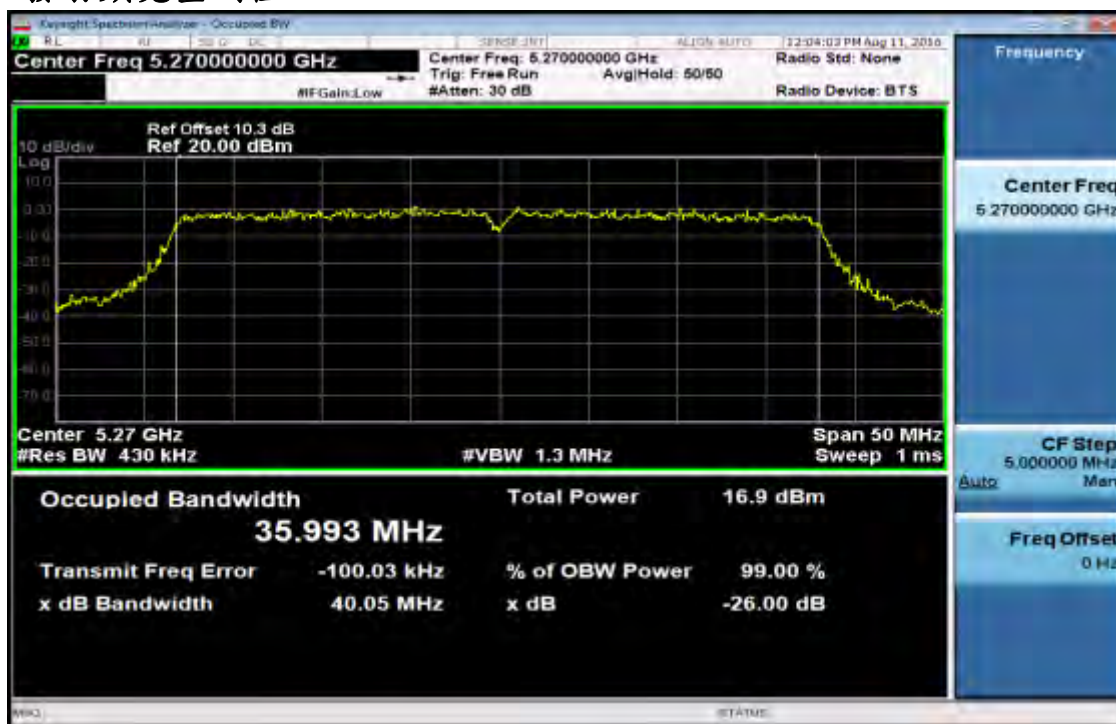
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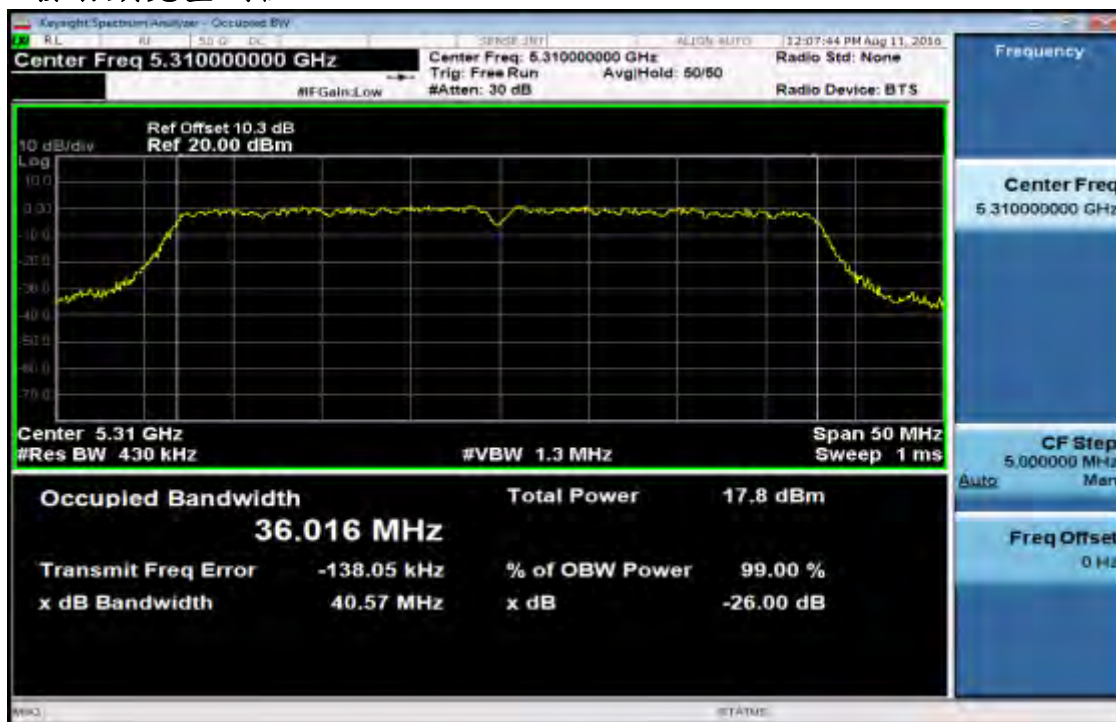
Member of SGS Group

802.11n HT40 Mode Test Data Plot (5250MHz-5350MHz)

CH Low 發射頻寬量測值



CH High 發射頻寬量測值



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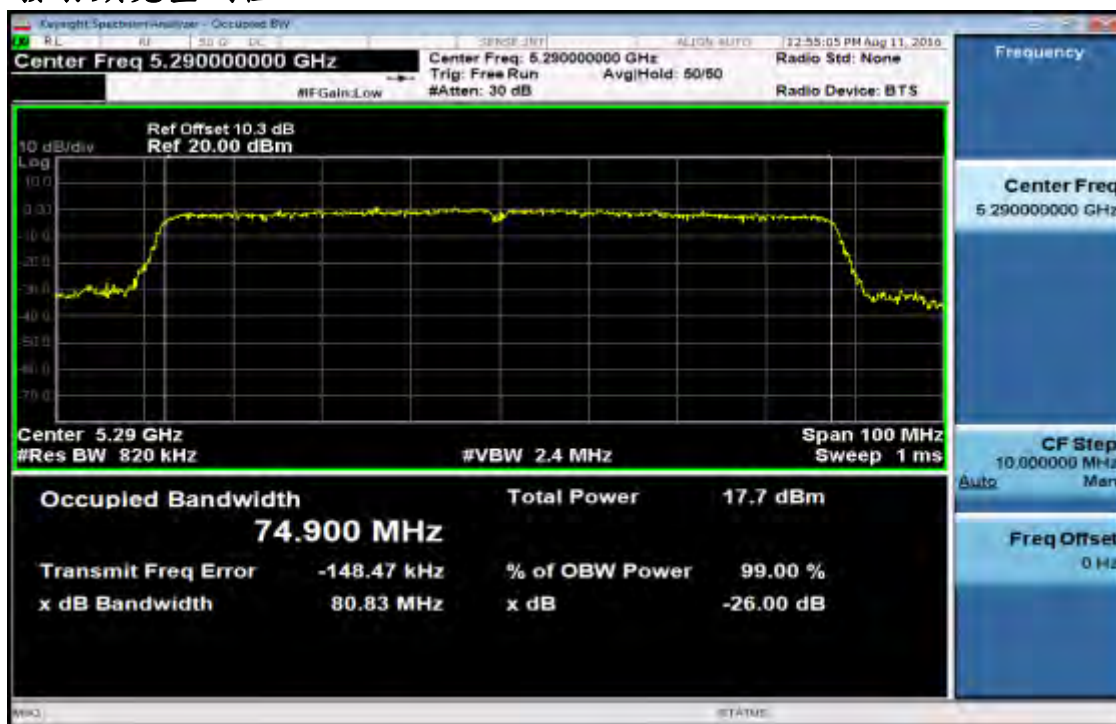
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802.11ac VHT80 Mode Test Data Plot (5250MHz-5350MHz)

CH MID 發射頻寬量測值



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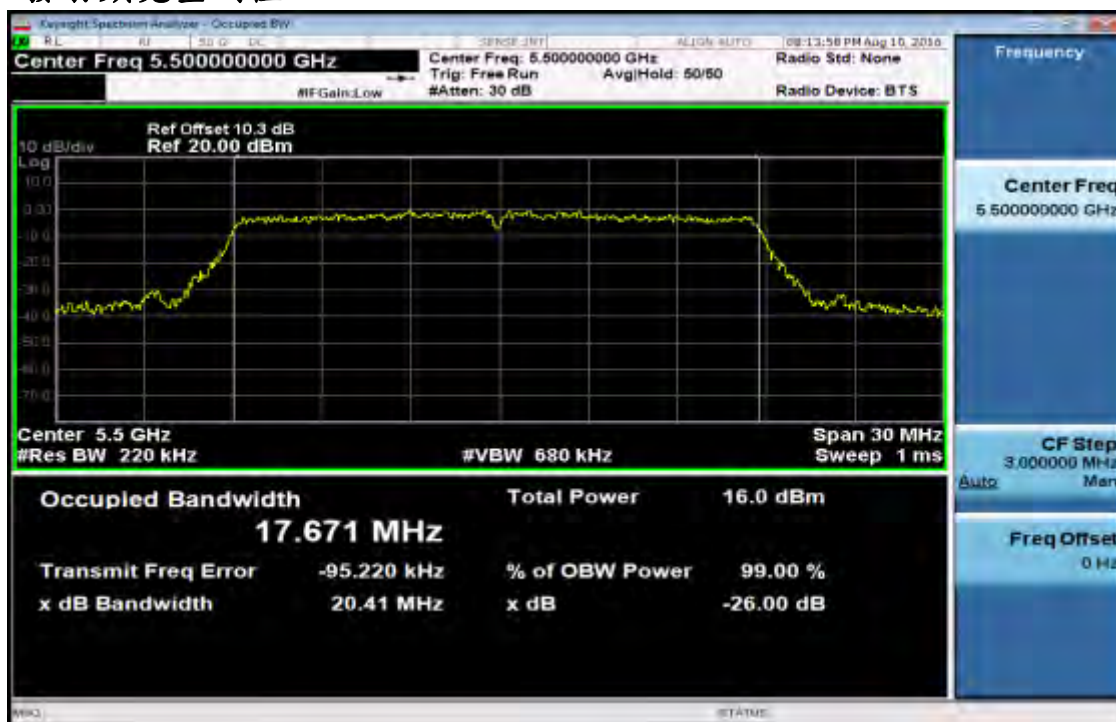
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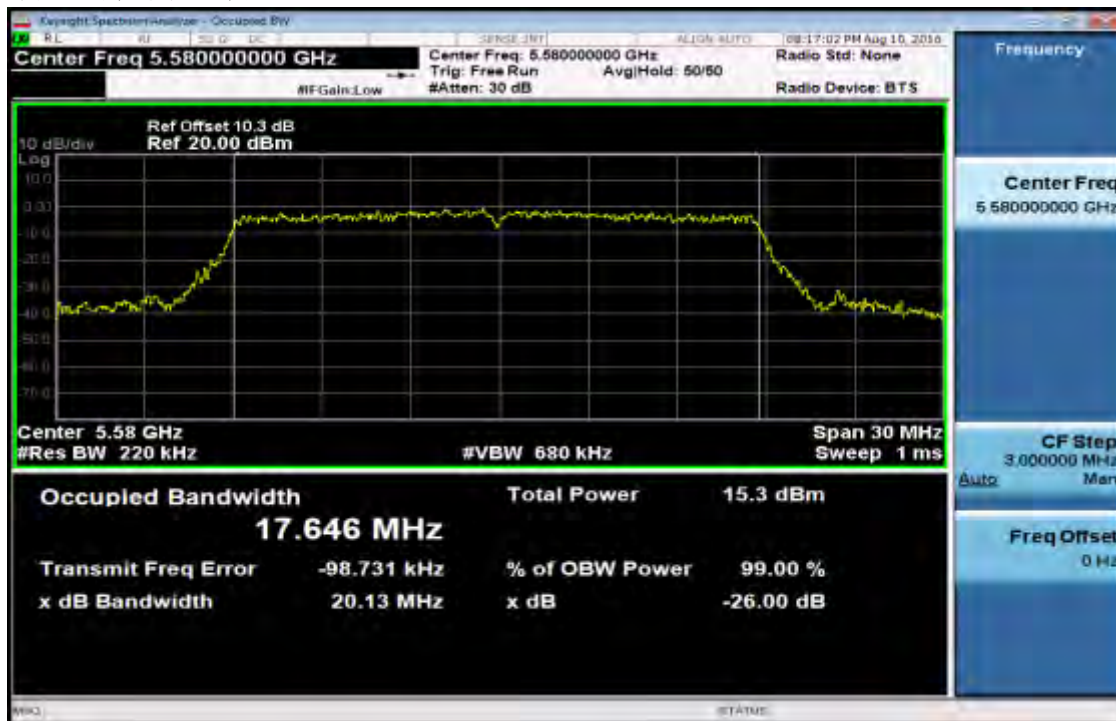
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802.11n HT20 Mode Test Data Plot (5470MHz-5725MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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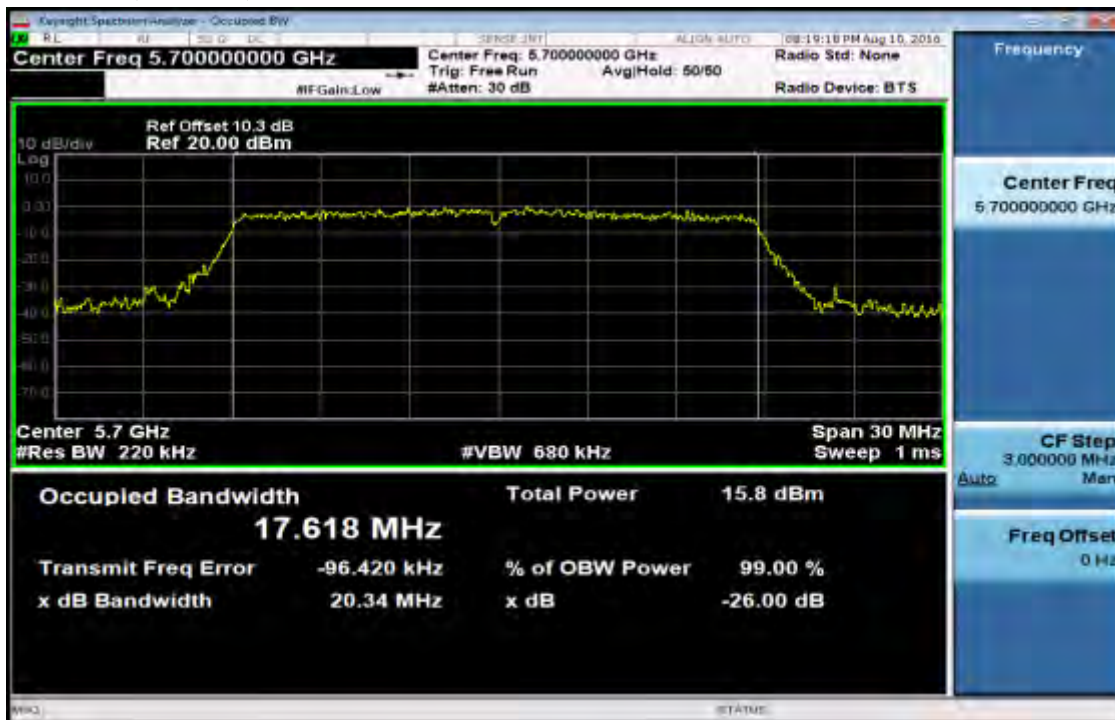
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CH High 發射頻寬量測值



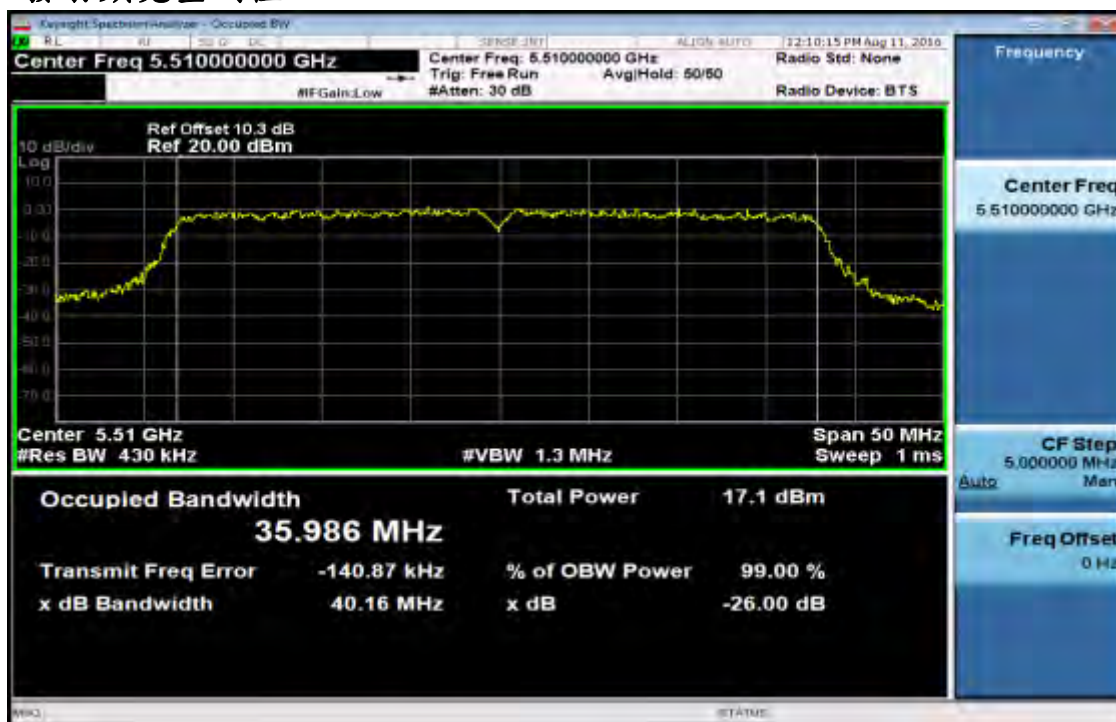
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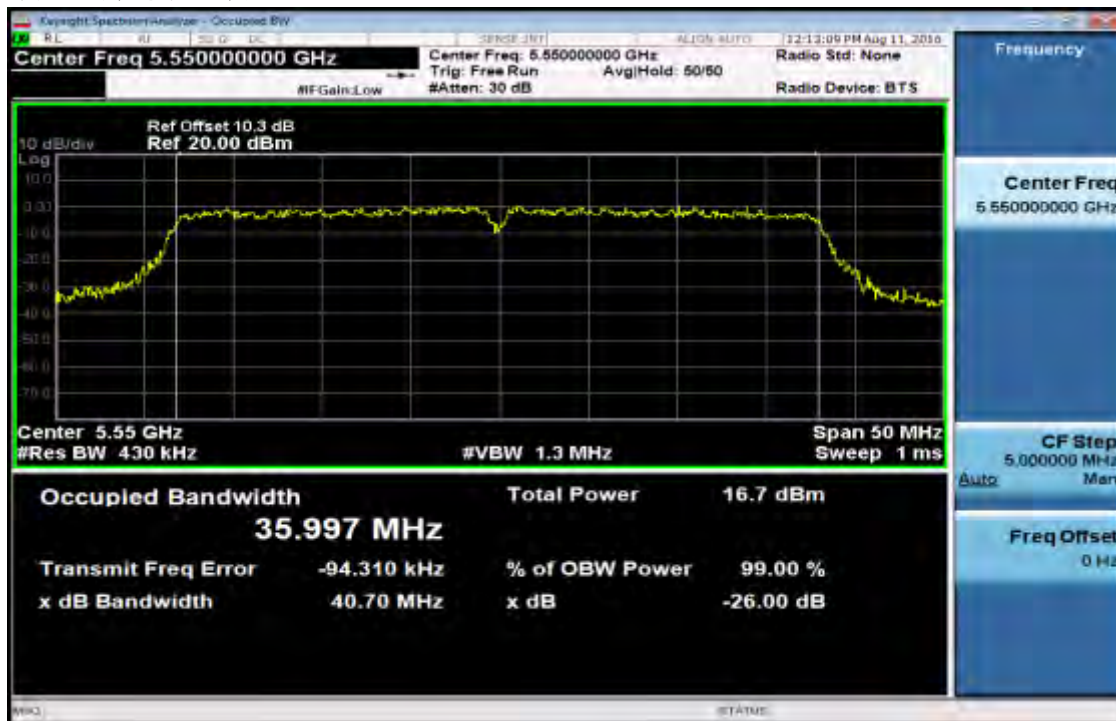
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802.11n HT40 Mode Test Data Plot (5470MHz-5725MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值

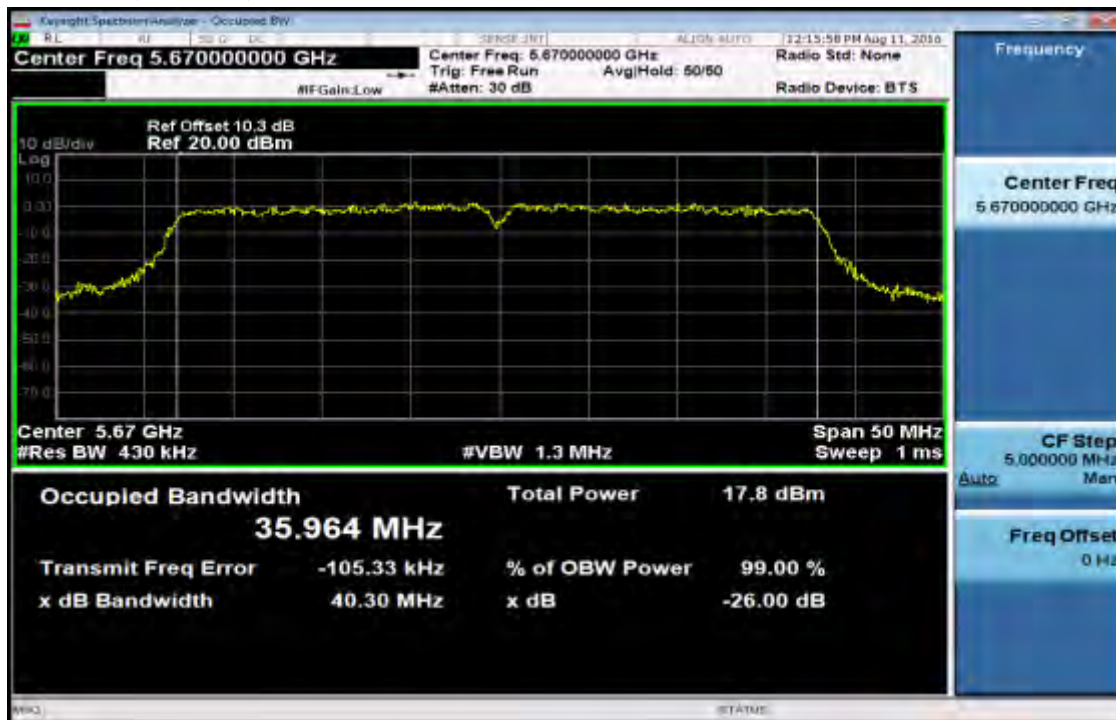


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CH High 發射頻寬量測值



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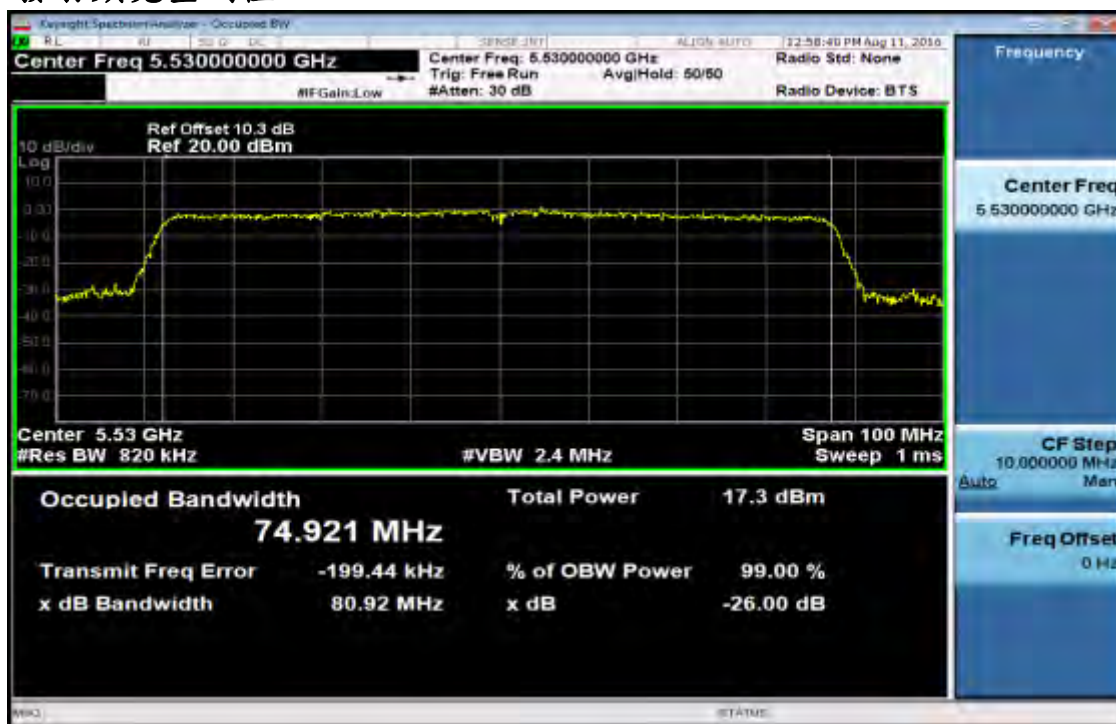
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802.11ac VHT80 Mode Test Data Plot (5470MHz-5725MHz)

CH MID 發射頻寬量測值



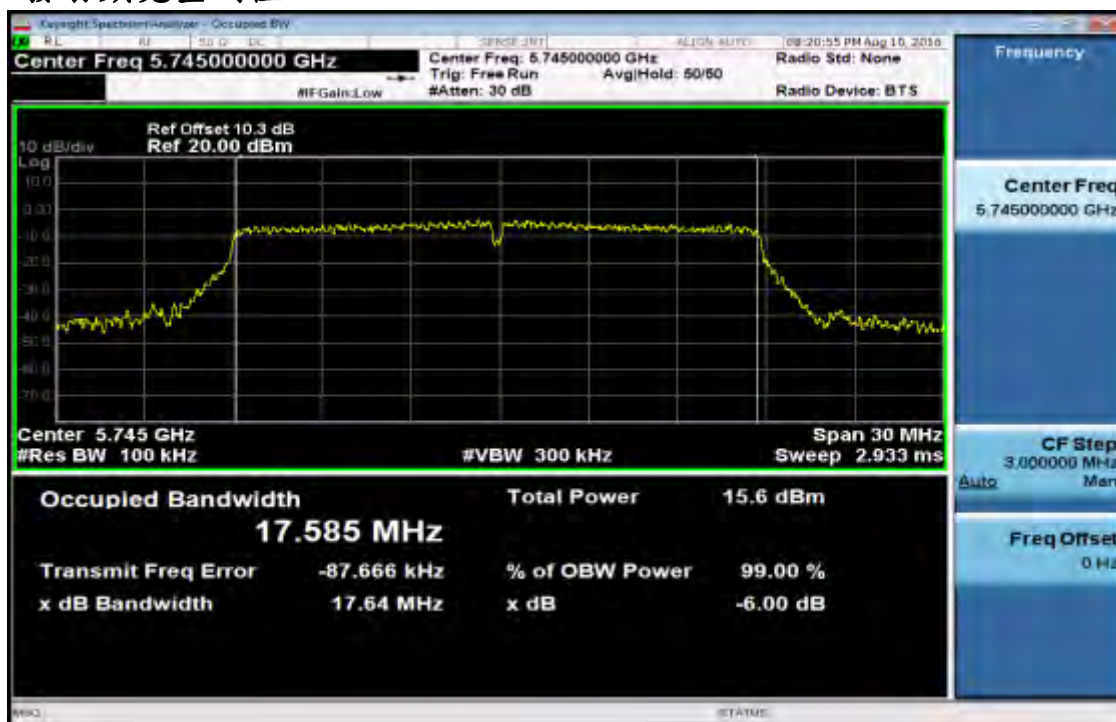
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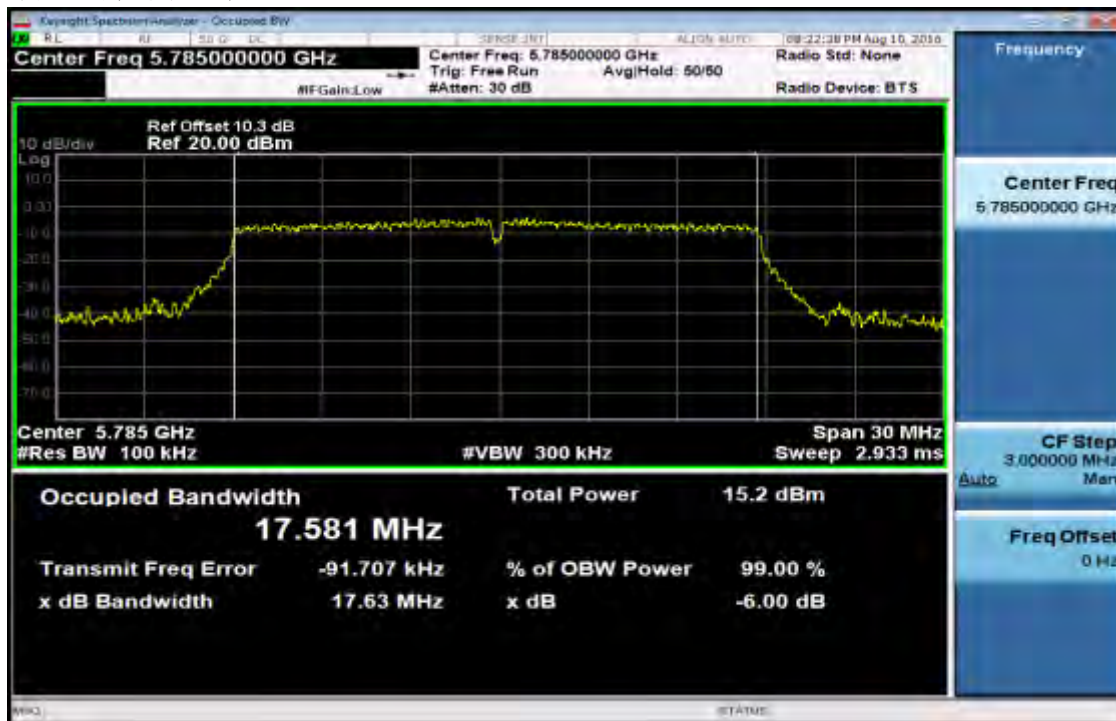
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802.11n HT20 Mode Test Data Plot (5725MHz-5850MHz)

CH Low 發射頻寬量測值



CH Mid 發射頻寬量測值



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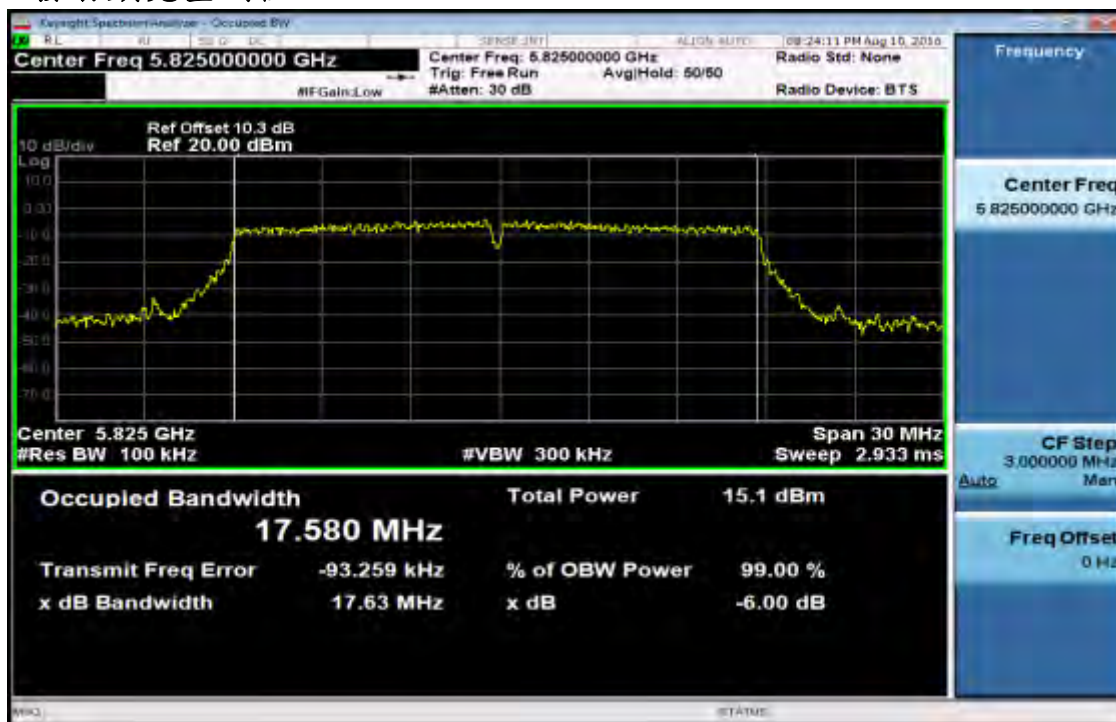
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CH High 發射頻寬量測值



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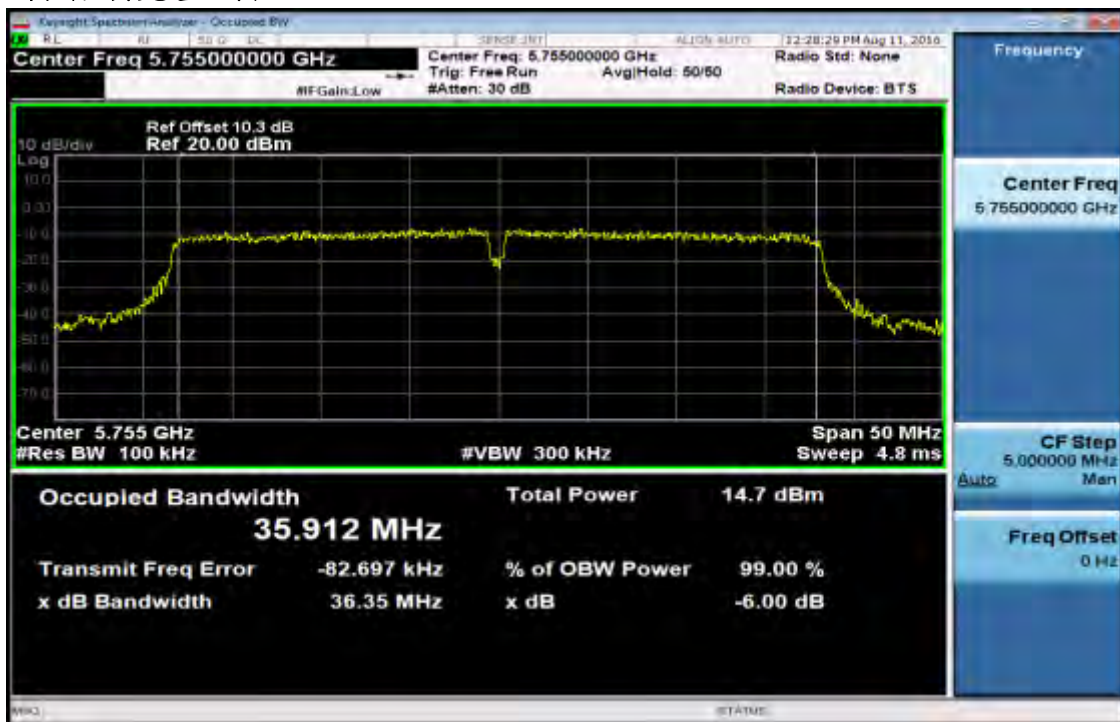
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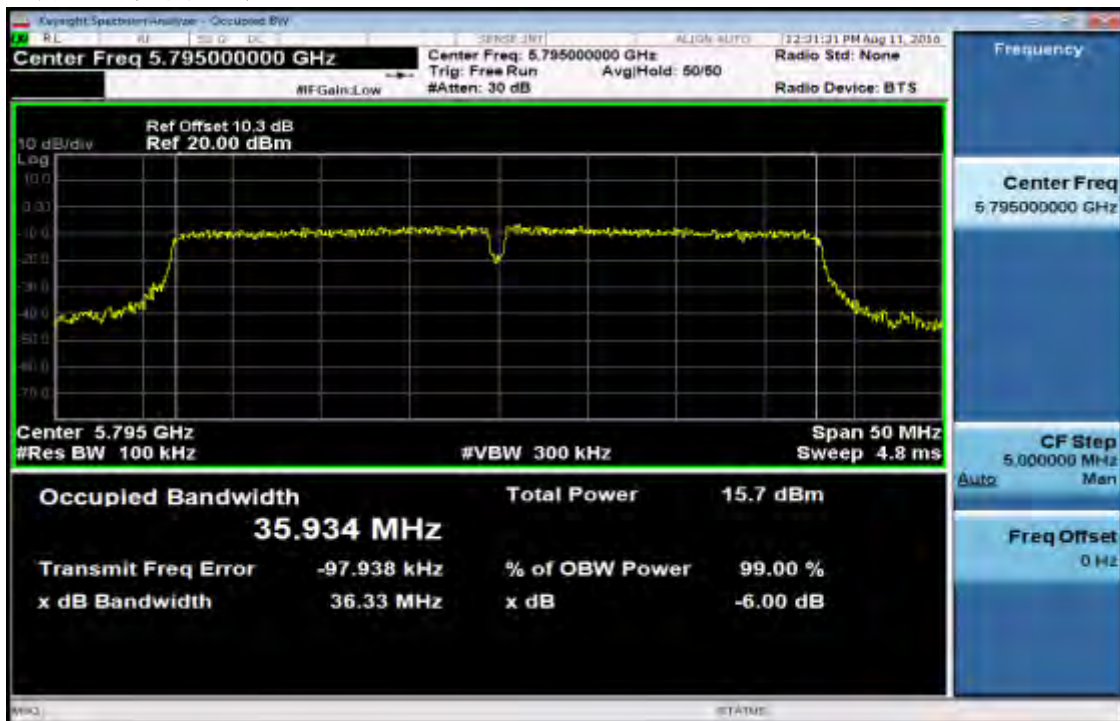
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802.11n HT40 Mode Test Data Plot (5725MHz-5850MHz)

CH Low 發射頻寬量測值



CH High 發射頻寬量測值

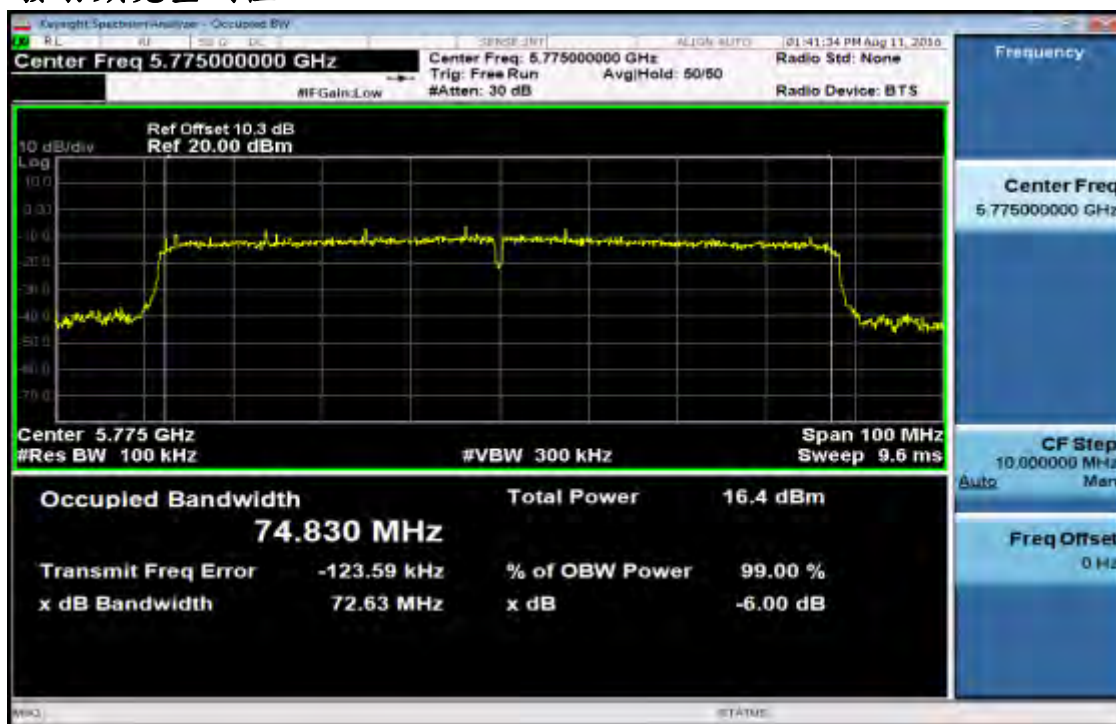


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802.11ac VHT80 Mode Test Data Plot (5725MHz-5850MHz) CH MID 發射頻寬量測值



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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4.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過23 dBi方向增益之指向性天線時，應依超過23 dBi天線方向增益的dBi總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B是26 dB發射頻寬，單位MHz)之較小者。
- (2) 最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。
- (3) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

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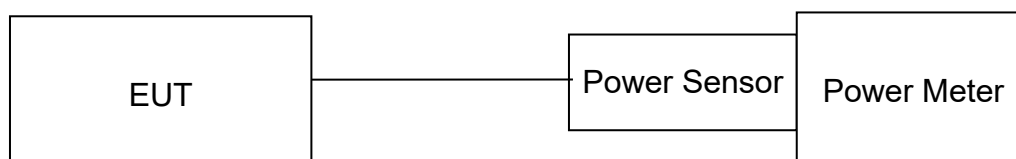
使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。
- (4) 除(3)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

9.2 測試方法

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Set the offset $10 \cdot \log(1/x)$ ($x=0.99$), 0.04 approximately
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 輸出功率之測試配置



9.4 量測儀器設備

同本報告 4.3 節傳導配置圖

*註: 經評估後，比較 802.11n20 / n40 和 802.11ac20 / ac40 測試值後發現 802.11n20 / n40 為最差模式，故附上最差模式 802.11n20 / n40 數據。

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9.5 輸出功率之量測結果

測試設備: 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2

型號: WBU034-EA

Combo Module

6dB 頻寬: 1MHz

視頻頻寬: 3MHz

Span: 30MHz/60MHz

測試日期: Aug/12/2016

環境溫度: 25°C

環境濕度: 60%

測試者:

曾健榮

802.11a Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.44	27.797	23.98	PASS
44	5220	14.37	27.353	23.98	PASS
48	5240	14.24	26.546	23.98	PASS
52	5260	14.16	26.062	23.98 or 11+10log(B) 23.98	PASS
60	5300	14.44	27.797	23.98 or 11+10log(B) 24.02	PASS
64	5320	14.47	27.990	23.98 or 11+10log(B) 24.04	PASS
100	5500	14.49	28.119	23.98 or 11+10log(B) 24.13	PASS
116	5580	14.49	28.119	23.98 or 11+10log(B) 24.17	PASS
140	5700	14.46	27.925	23.98 or 11+10log(B) 24.08	PASS
149	5745	14.49	28.119	30	PASS
157	5785	14.48	28.054	30	PASS
165	5825	14.22	26.424	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
36	5180	11.72	11.21	14.48	28.072	23.96	PASS
44	5220	11.69	11.11	14.42	27.669	23.96	PASS
48	5240	11.65	11.07	14.38	27.416	23.96	PASS
52	5260	11.68	11.27	14.49	28.120	23.96 or 11+10log(B) 24.05	PASS
60	5300	11.67	11.24	14.47	27.994	23.96 or 11+10log(B) 23.96	PASS
64	5320	11.66	11.3	14.49	28.145	23.96 or 11+10log(B) 24.02	PASS
100	5500	11.68	11.11	14.41	27.635	22.86 or 11+10log(B) 24.10	PASS
116	5580	11.76	11.11	14.46	27.909	22.86 or 11+10log(B) 24.04	PASS
140	5700	11.88	10.74	14.36	27.275	22.86 or 11+10log(B) 24.00	PASS
149	5745	11.98	10.67	14.38	27.444	30	PASS
157	5785	11.84	11.02	14.46	27.923	30	PASS
165	5825	11.73	10.57	14.20	26.296	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
36	5180	11.79	10.67	14.28	26.769	23.96	PASS
44	5220	11.74	11.03	14.41	27.604	23.96	PASS
48	5240	11.41	10.89	14.17	26.110	23.96	PASS
52	5260	11.42	10.88	14.17	26.114	23.96 or 11+10log(B) 24.05	PASS
60	5300	11.65	10.84	14.27	26.756	23.96 or 11+10log(B) 23.96	PASS
64	5320	11.79	10.98	14.41	27.632	23.96 or 11+10log(B) 24.02	PASS
100	5500	11.74	11.01	14.40	27.546	22.86 or 11+10log(B) 24.10	PASS
116	5580	11.48	10.8	14.16	26.083	22.86 or 11+10log(B) 24.04	PASS
140	5700	11.65	10.69	14.21	26.344	22.86 or 11+10log(B) 24.00	PASS
149	5745	11.89	10.67	14.33	27.121	30	PASS
157	5785	11.57	10.36	14.02	25.219	30	PASS
165	5825	11.6	10.28	14.00	25.120	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
38	5190	11.46	11.33	14.41	27.579	23.96	PASS
46	5230	11.89	10.87	14.42	27.671	23.96	PASS
54	5270	11.68	11.28	14.49	28.151	23.96 or 11+10log(B) 27.03	PASS
62	5310	11.61	11.22	14.43	27.731	23.96 or 11+10log(B) 27.04	PASS
102	5510	11.81	11.12	14.49	28.112	22.86 or 11+10log(B) 27.04	PASS
110	5550	11.72	11.11	14.44	27.772	22.86 or 11+10log(B) 27.09	PASS
134	5670	11.79	11.14	14.49	28.102	22.86 or 11+10log(B) 27.05	PASS
151	5755	11.73	11.13	14.45	27.865	30	PASS
159	5795	11.77	10.75	14.30	26.916	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
38	5190	11.49	11.1	14.31	26.975	23.96	PASS
46	5230	11.65	11.12	14.40	27.564	23.96	PASS
54	5270	11.55	10.99	14.29	26.849	23.96 or 11+10log(B) 27.03	PASS
62	5310	11.46	10.9	14.20	26.299	23.96 or 11+10log(B) 27.04	PASS
102	5510	11.75	10.9	14.36	27.265	22.86 or 11+10log(B) 27.04	PASS
110	5550	11.38	10.65	14.04	25.355	22.86 or 11+10log(B) 27.09	PASS
134	5670	12.05	10.65	14.42	27.647	22.86 or 11+10log(B) 27.05	PASS
151	5755	11.44	10.5	14.01	25.152	30	PASS
159	5795	11.57	10.58	14.11	25.784	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
42	5210	11.1	11.3	14.21	26.372	23.96	PASS
58	5290	11.28	11.18	14.24	26.550	23.96 or 11+10log(B) 30.08	PASS
106	5530	11.75	10.27	14.08	25.604	22.86 or 11+10log(B) 30.05	PASS
122	5610	11.11	11.23	14.18	26.186	23.98 or 11+10log(B) 30.07	PASS
155	5775	11.26	10.89	14.09	25.640	30	PASS

Note:

Offset 10.30 dB for SISO mode
Offset 13.30 dB for MIMO mode

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10 功率密度之限制

10.1 適用標準

依據NCC低功率射頻電機技術規範4.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過23 dBi方向增益之指向性天線時，應依超過23 dBi天線方向增益的dBi總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B是26 dB發射頻寬，單位MHz)之較小者。
- (2) 最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。
- (3) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

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使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。
- (4) 除(3)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

10.2 測試方式

將發射機之天線埠經由適當之衰減直接連至測試儀器。找出發射峰值並擴展於通帶內，設定解析頻寬為 1 MHz，視訊頻寬大於解析頻寬，掃描時間為頻率掃描範圍除以 1 MHz。

10.3 測試配置

同本報告 8.3 節傳導配置圖

*註: 經評估後，比較 802.11n20 / n40 和 802.11ac20 / ac40 測試值後發現 802.11n20 / n40 為最差模式，故附上最差模式 802.11n20 / n40 數據。

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10.4 功率密度量測結果

測試設備: 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2

型號: WBU034-EA

Combo Module

解析頻寬: 1MHz

視頻頻寬: 3MHz

Span: 50MHz/80MHz/160MHz

測試日期: Aug/12/2016

環境溫度: 25°C

環境濕度: 60%

測試者:

曾健榮

POWER DENSITY 802.11a MODE				
Frequency (MHz)	PPSD (dBm)	Offset	Limit (dBm)	Margin (dB)
5180	2.87	10.30	17	-14.13
5220	2.38	10.30	17	-14.62
5240	2.75	10.30	17	-14.25
5260	2.68	10.30	11	-8.32
5300	1.92	10.30	11	-9.08
5320	1.89	10.30	11	-9.11
5500	2.37	10.30	11	-8.63
5580	1.97	10.30	11	-9.03
5700	2.51	10.30	11	-8.49
5745	6.96	10.30	30	-23.04
5785	7.27	10.30	30	-22.73
5825	7.07	10.30	30	-22.93

POWER DENSITY 802.11n HT20 MODE				
Frequency (MHz)	PPSD (dBm)	Offset	Limit (dBm)	Margin (dB)
5180	1.84	10.30	16.98	-15.14
5220	2.08	10.30	16.98	-14.90
5240	1.87	10.30	16.98	-15.11
5260	2.81	10.30	10.98	-8.17
5300	1.87	10.30	10.98	-9.11
5320	1.87	10.30	10.98	-9.11
5500	1.57	10.30	9.88	-8.31
5580	1.32	10.30	9.88	-8.56
5700	2.66	10.30	9.88	-7.22
5745	6.44	10.30	30	-23.56
5785	6.11	10.30	30	-23.89
5825	6.10	10.30	30	-23.90

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POWER DENSITY 802.11n HT40 MODE				
Frequency (MHz)	PPSD (dBm)	Offset	Limit (dBm)	Margin (dB)
5190	-2.21	10.30	16.98	-19.19
5230	-0.88	10.30	16.98	-17.86
5270	-1.46	10.30	10.98	-12.44
5310	-1.25	10.30	10.98	-12.23
5510	-0.92	10.30	9.88	-10.80
5550	-1.02	10.30	9.88	-10.90
5670	-0.43	10.30	9.88	-10.31
5755	4.47	10.30	30	-25.53
5795	3.54	10.30	30	-26.46
POWER DENSITY 802.11ac VT80 MODE				
Frequency (MHz)	PPSD (dBm)	Offset	Limit (dBm)	Margin (dB)
5210	-3.76	10.30	17	-20.76
5290	-3.53	10.30	11	-14.53
5530	-4.69	10.30	11	-15.69
5610	-3.49	10.30	11	-14.49
5775	1.59	10.30	30	-28.41

Note:

Offset 10.30 dB for SISO mode
Offset 13.30 dB for MIMO mode

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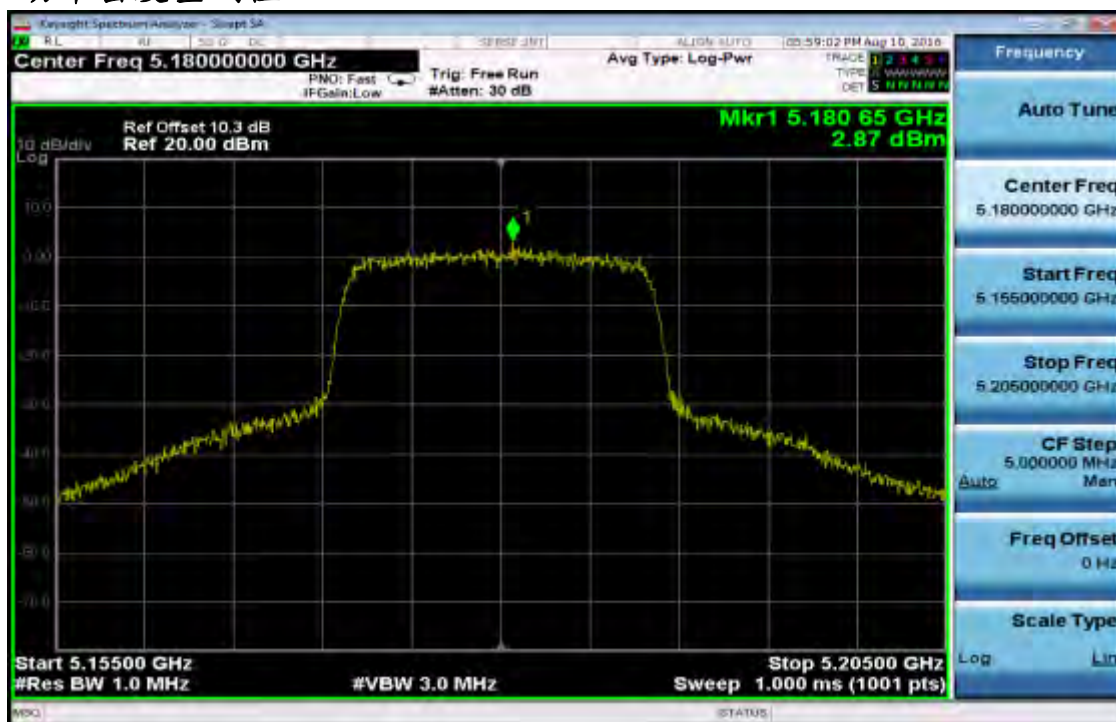
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802.11a Mode Test Data Plot (5150MHz-5250MHz)

CH Low 功率密度量測值



CH Mid 功率密度量測值



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CH High 功率密度量測值



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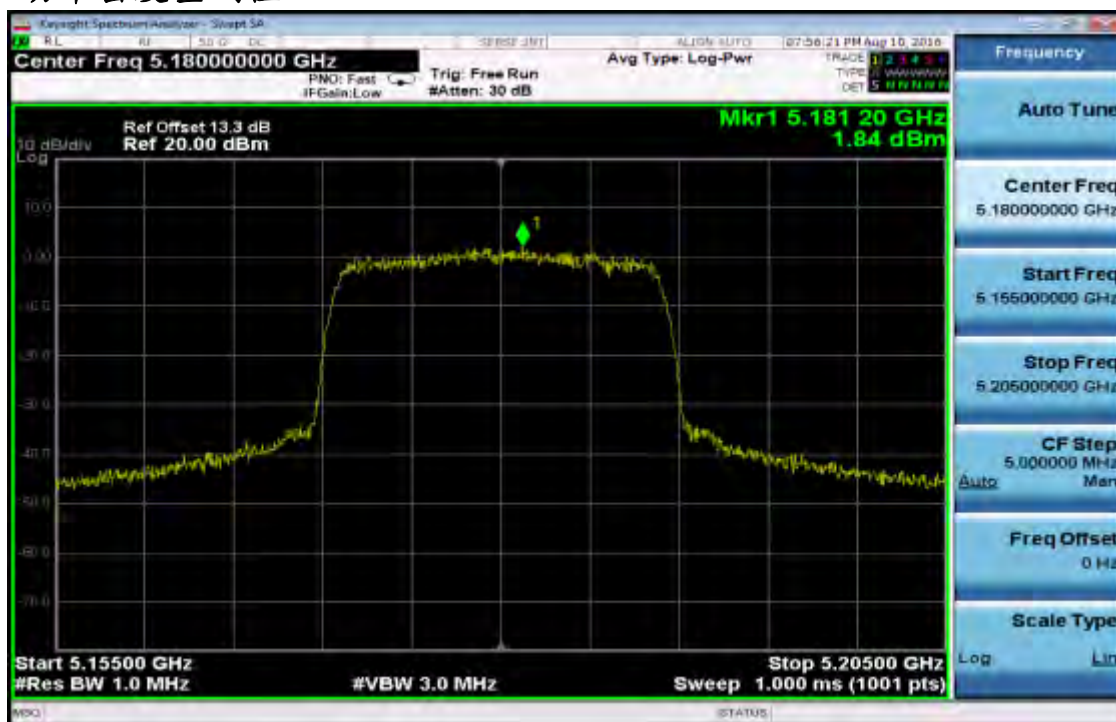
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802.11n HT20 Mode Test Data Plot (5150MHz-5250MHz)

CH Low 功率密度量測值



CH Mid 功率密度量測值



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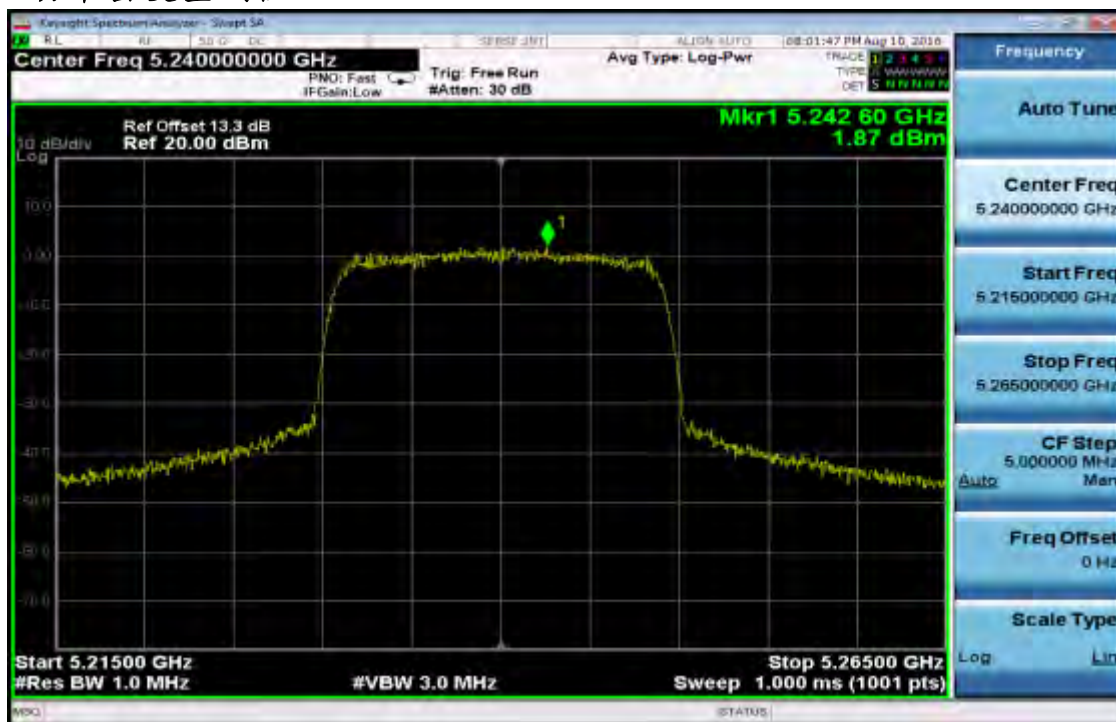
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CH High 功率密度量測值



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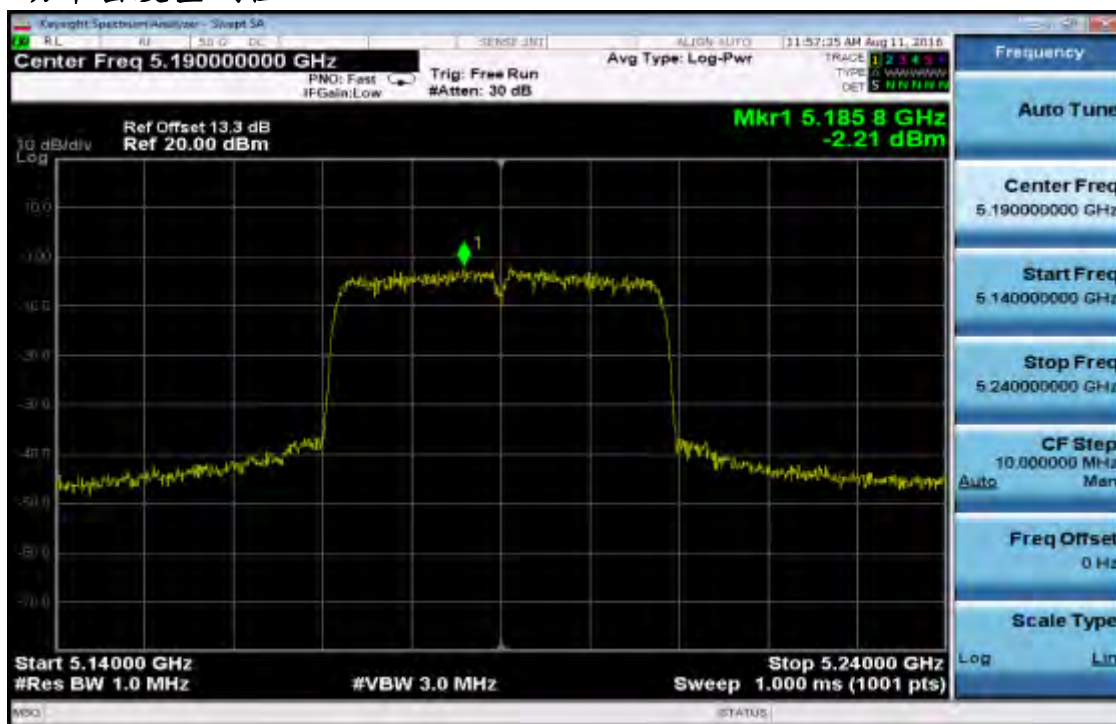
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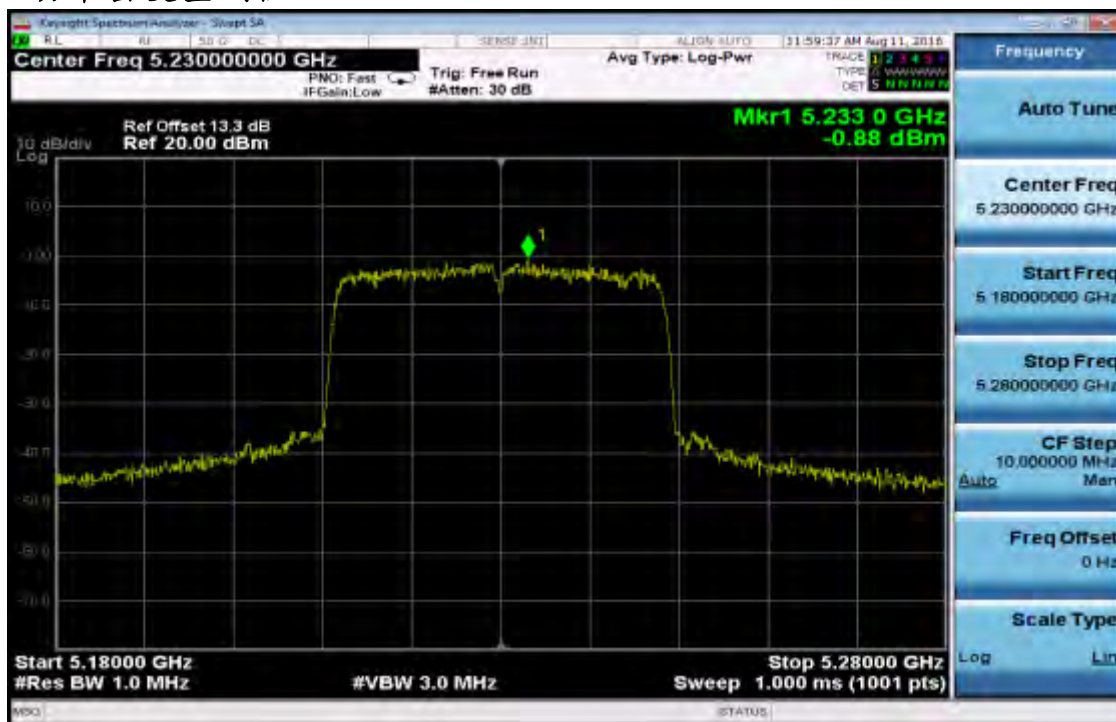
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802.11n HT40 Mode Test Data Plot (5150MHz-5250MHz)

CH Low 功率密度量測值



CH High 功率密度量測值



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802.11ac VHT80 Mode Test Data Plot (5150MHz-5250MHz)

功率密度量測值



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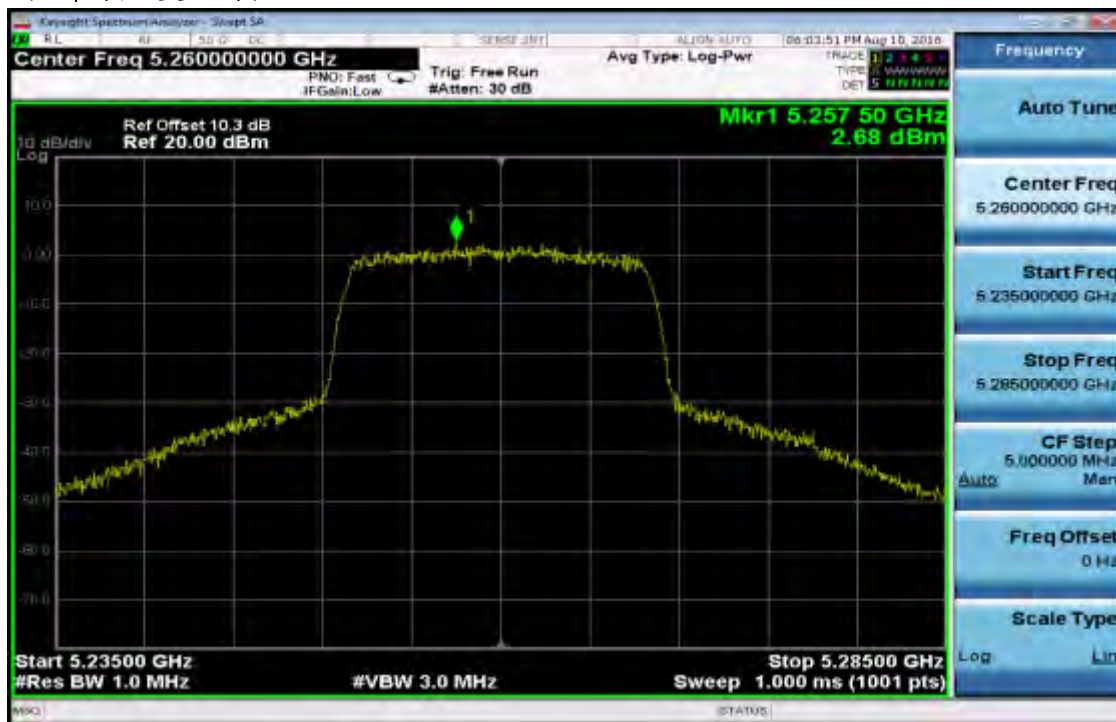
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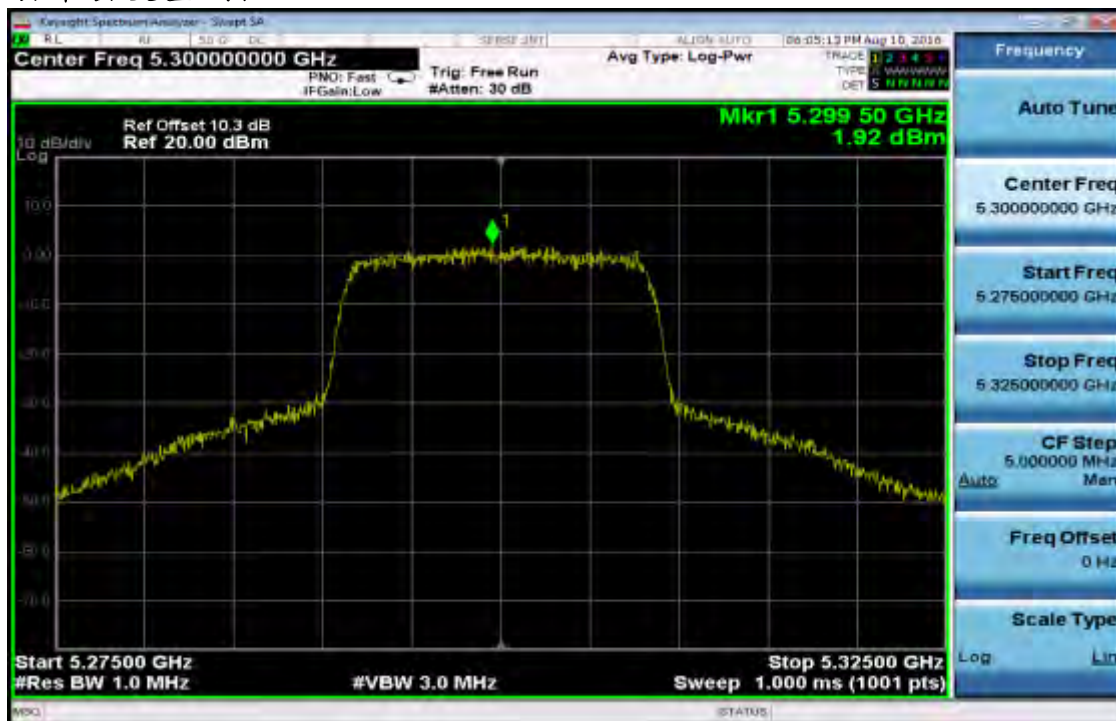
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802.11a Mode Test Data Plot (5250MHz-5350MHz)

CH Low 功率密度量測值



CH Mid 功率密度量測值



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CH High 功率密度量測值



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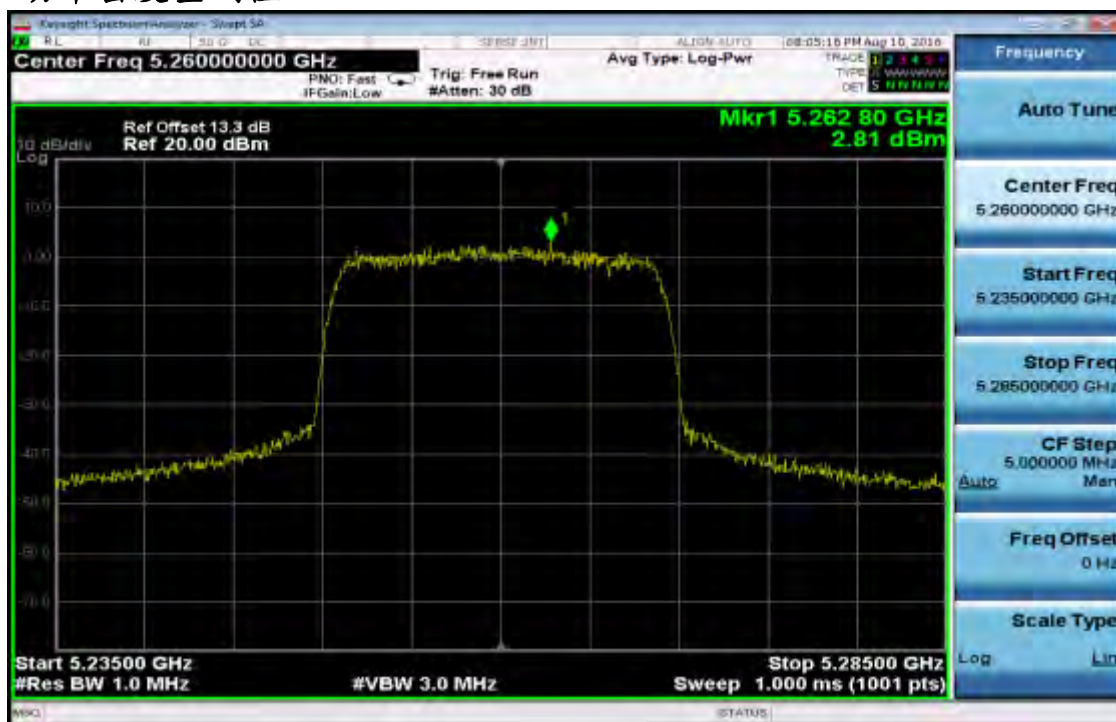
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802.11n HT20 Mode Test Data Plot (5250MHz-5350MHz)

CH Low 功率密度量測值



CH Mid 功率密度量測值



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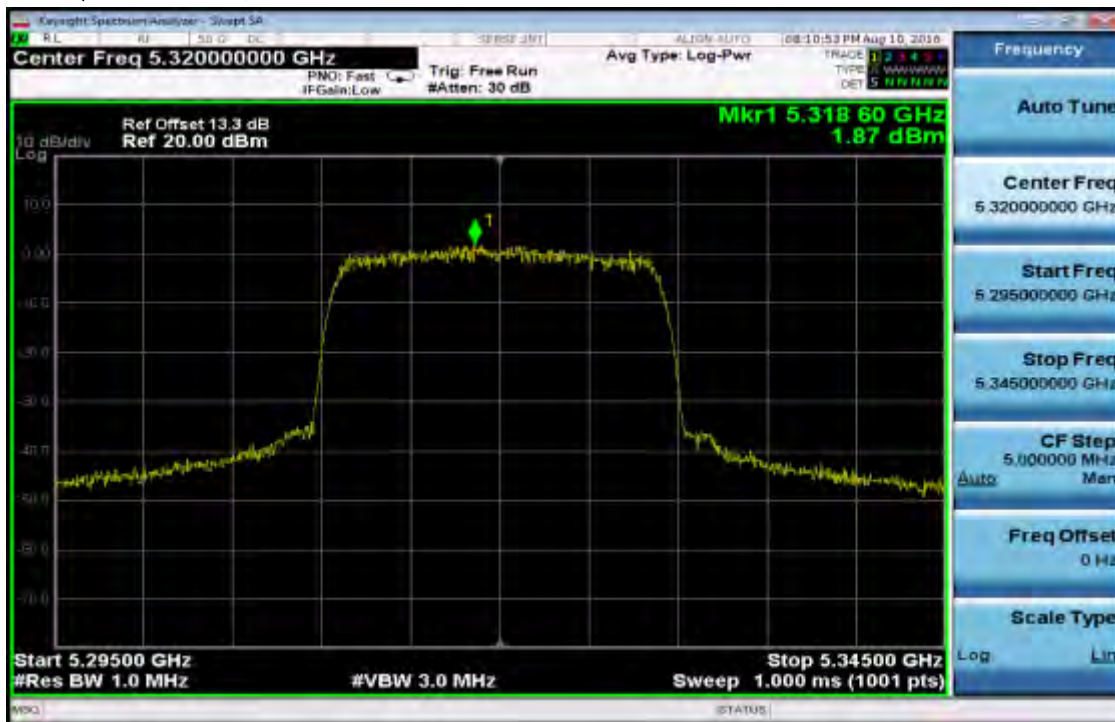
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802.11n HT40 Mode Test Data Plot (5250MHz-5350MHz)

CH Low 功率密度量測值



CH High 功率密度量測值



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802.11ac VHT80 Mode Test Data Plot (5250MHz-5350MHz)

功率密度量測值



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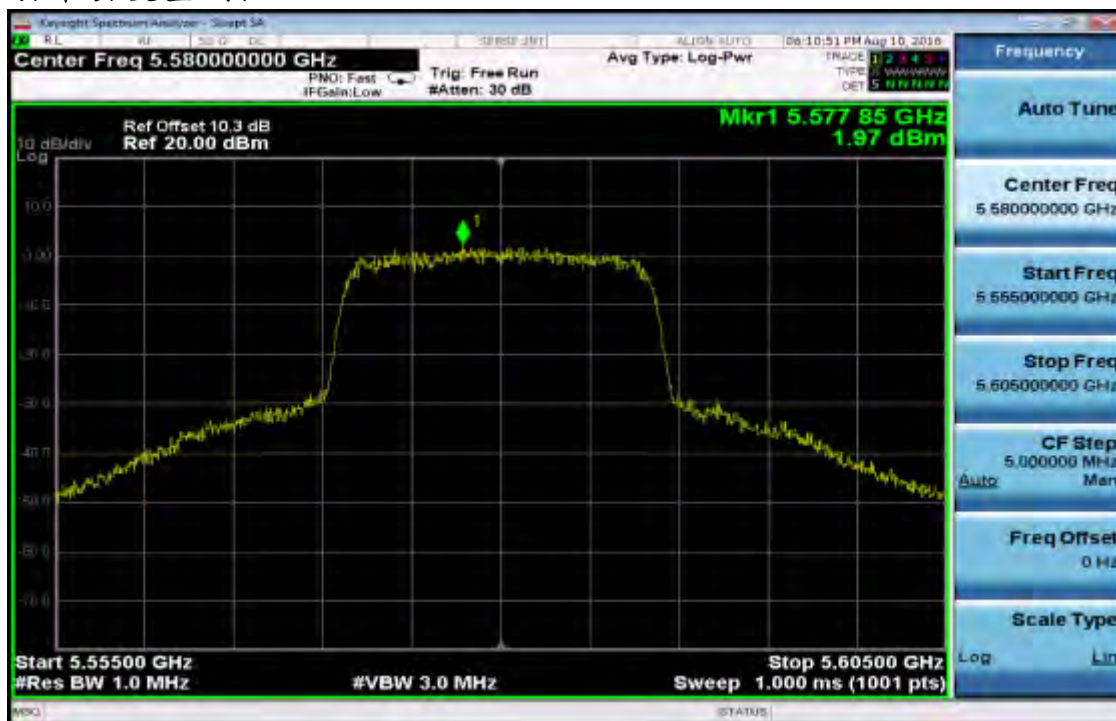
Member of SGS Group

802.11a Mode Test Data Plot (5470MHz-5725MHz)

CH Low 功率密度量測值



CH Mid 功率密度量測值

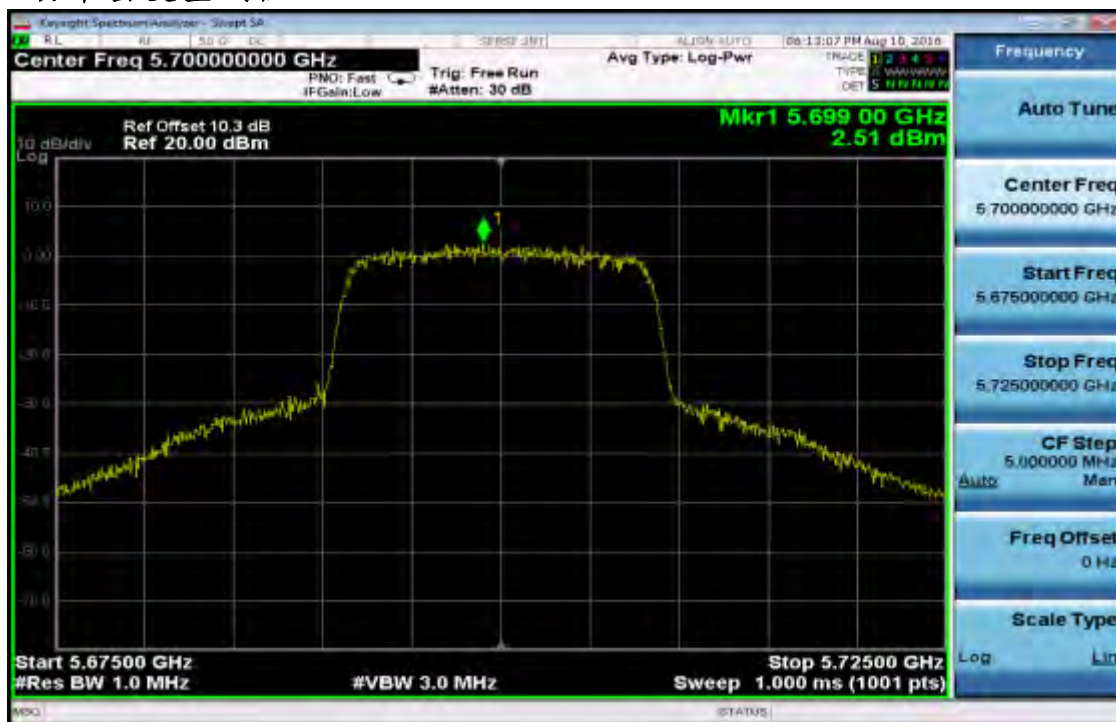


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CH High 功率密度量測值



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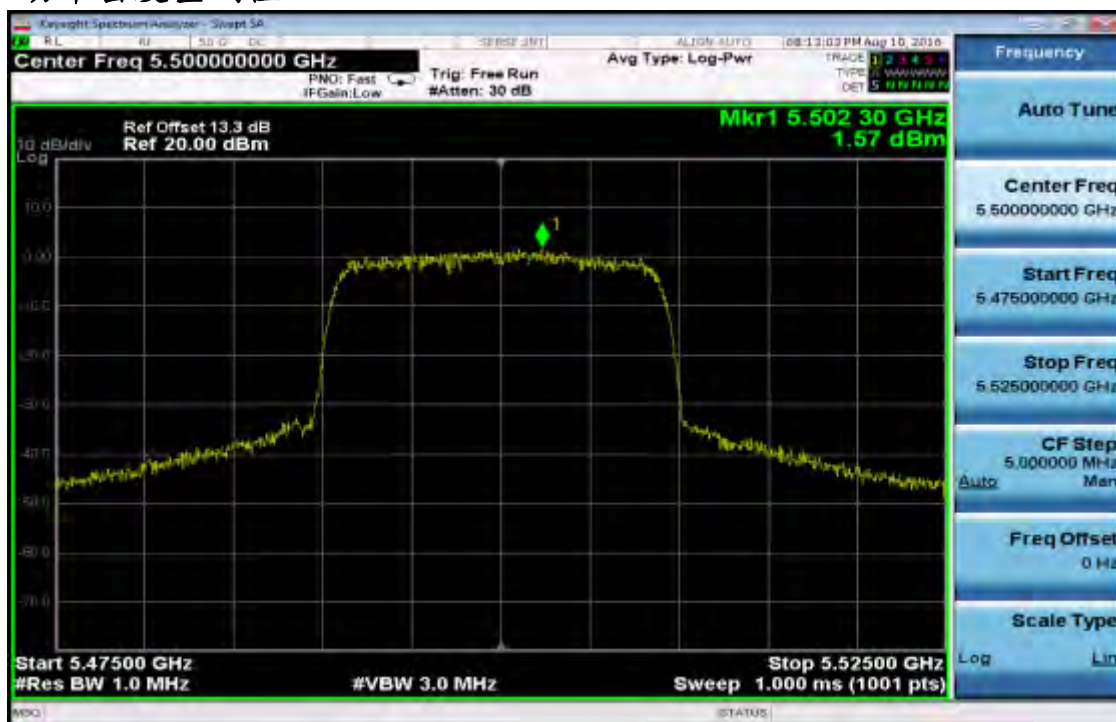
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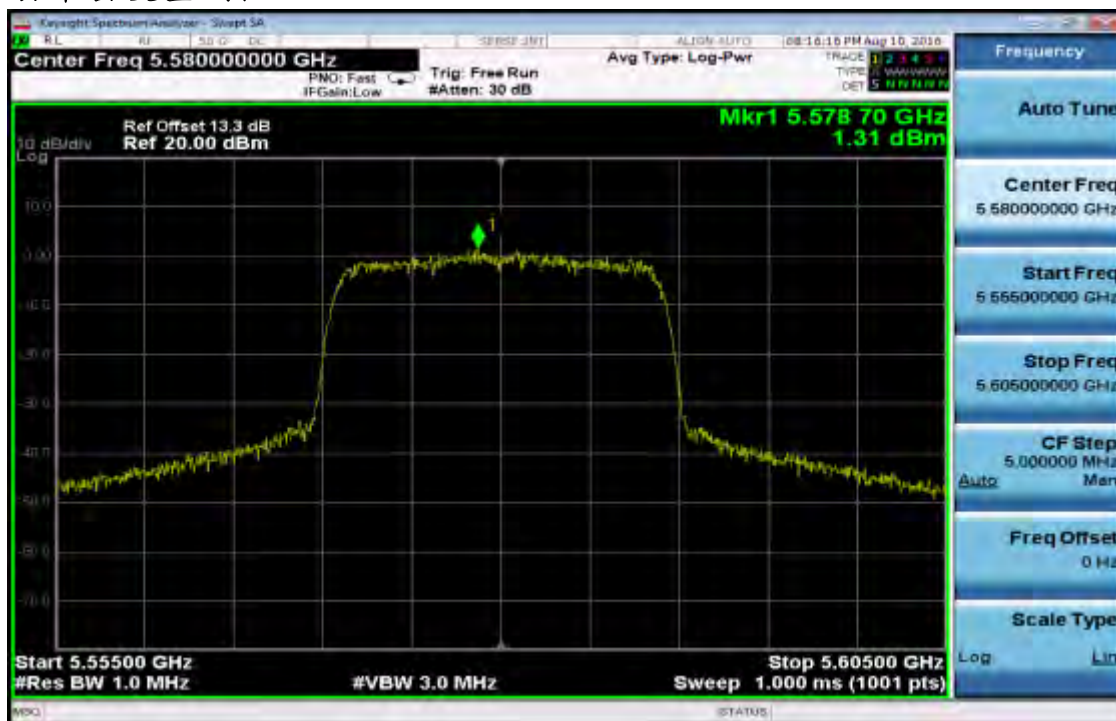
Member of SGS Group

802.11n HT20 Mode Test Data Plot (5470MHz-5725MHz)

CH Low 功率密度量測值



CH Mid 功率密度量測值

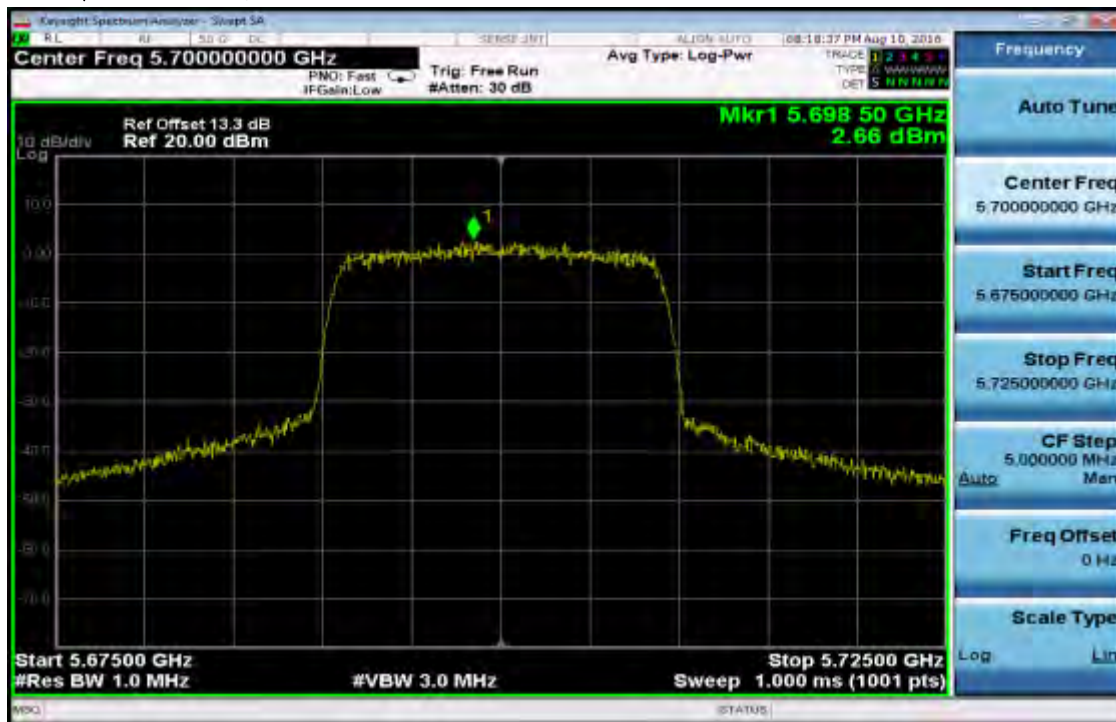


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CH High 功率密度量測值



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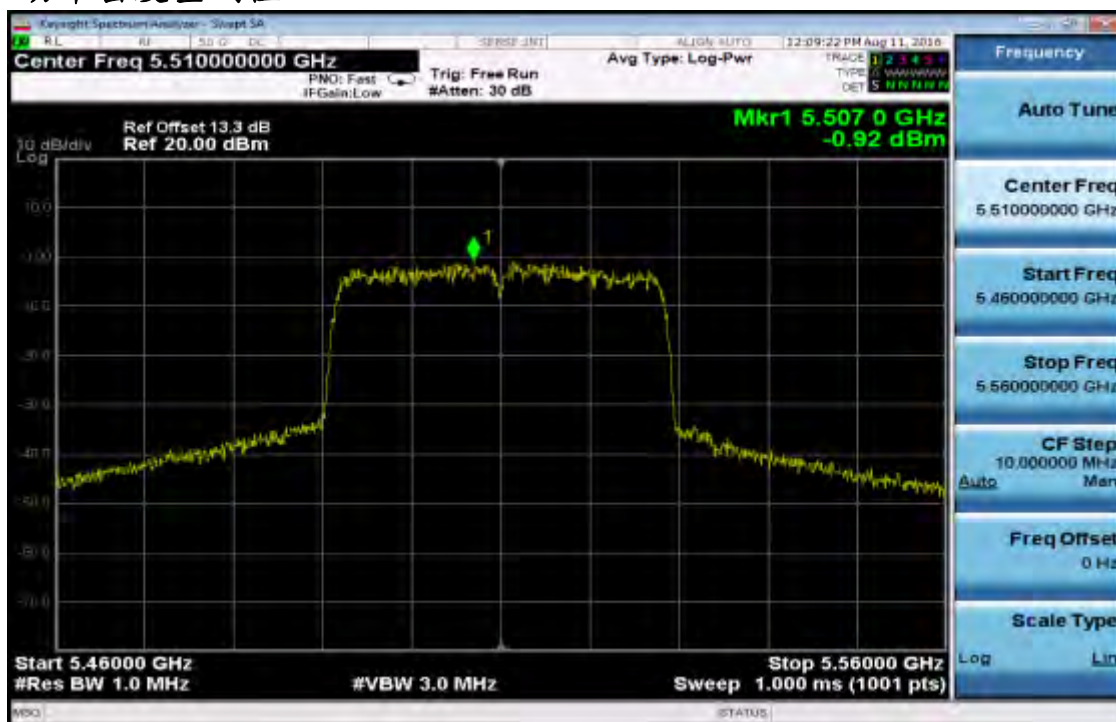
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802.11n HT40 Mode Test Data Plot (5470MHz-5725MHz) CH Low 功率密度量測值



CH Mid 功率密度量測值



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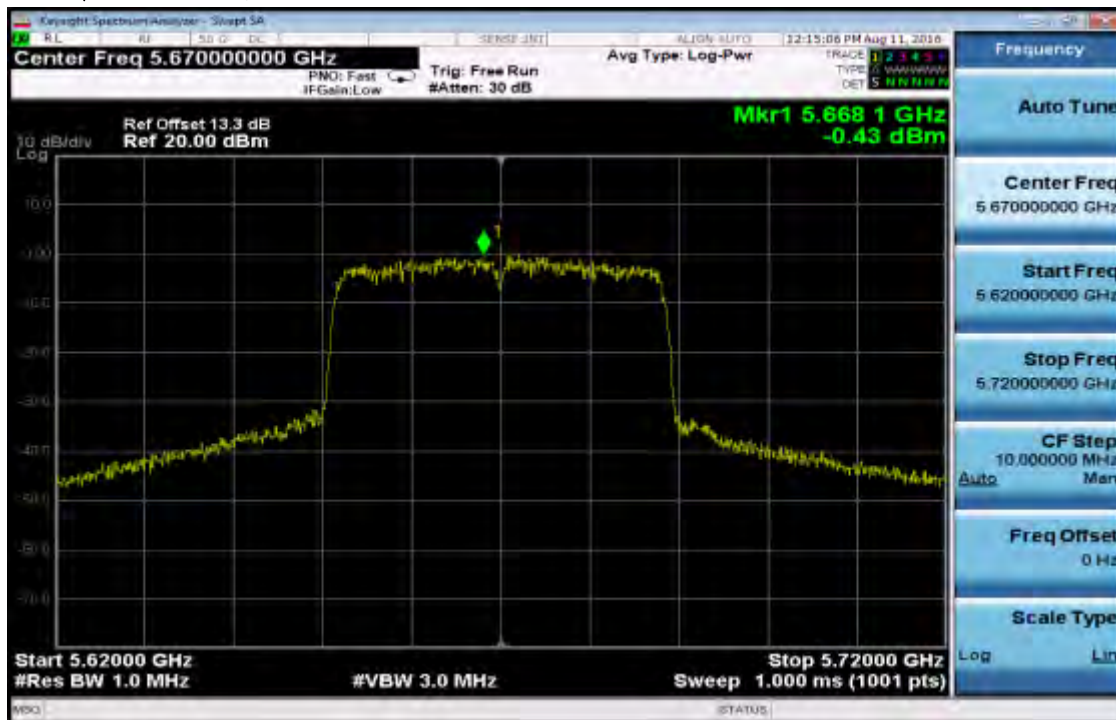
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CH High 功率密度量測值



802.11ac VHT80 Mode Test Data Plot (5470MHz-5725MHz)

功率密度量測值



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Member of SGS Group

802.11a Mode Test Data Plot (5725MHz-5850MHz)

CH Low 功率密度量測值



CH Mid 功率密度量測值



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CH High 功率密度量測值



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802.11n HT20 Mode Test Data Plot (5725MHz-5850MHz)

CH Low 功率密度量測值



CH Mid 功率密度量測值



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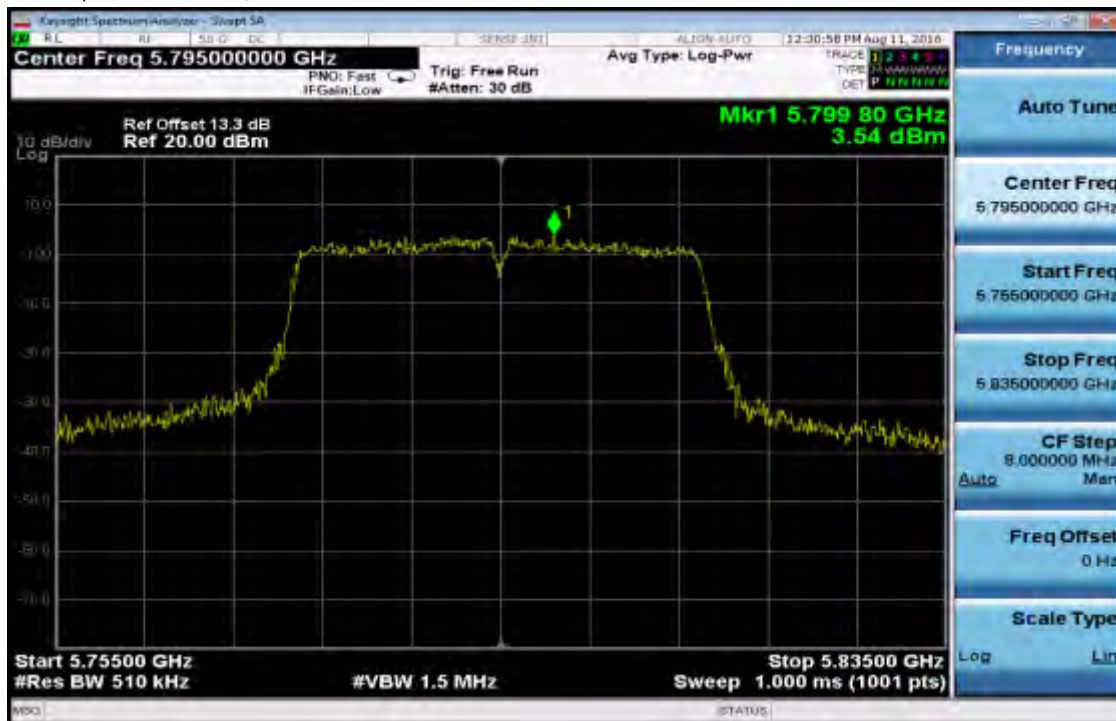
Member of SGS Group

802.11n HT40 Mode Test Data Plot (5725MHz-5850MHz)

CH Low 功率密度量測值



CH High 功率密度量測值



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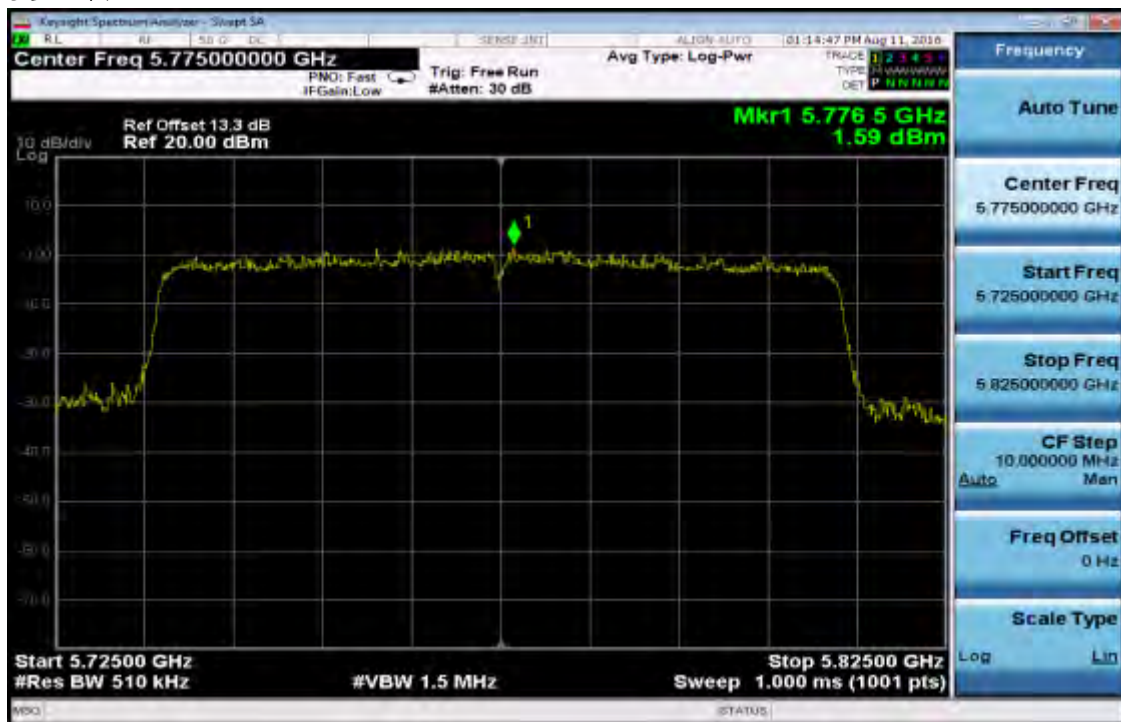
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802.11ac VHT80 Mode Test Data Plot (5725MHz-5850MHz)

功率密度量測值



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11 功率控制與動態頻率選擇

11.1 適用標準

發射功率控制(TPC)：操作於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段的設備，應具備發射功率控制功能。設備必須至少具有6 dB低於平均EIRP 30 dBm的能力。EIRP 低於500 mW 之系統不須具備TPC 功能。

動態頻率選擇(DFS):操作於5.25 GHz~5.35 GHz與5.470 GHz~5.725 GHz頻段之設備應具備動態頻率選擇雷達偵測功能並啟動之，以完整偵測使用頻帶內之雷達訊號，避免與雷達系統同頻道操作。相關規定如下：

(1) 最低動態頻率選擇的偵測門檻

- (A) 最大EIRP 為200 mW~1 W之設備，其最低動態頻率選擇的偵測門檻值為-64dBm。
- (B) 最大EIRP 低於200 mW，且功率頻譜密度小於10 dBm/MHz 之設備，其最低動態頻率選擇的偵測門檻值為-62 dBm。
- (C) 最大EIRP 低於200 mW，且功率頻譜密度大於或等於10 dBm/MHz 之設備，其最低動態頻率選擇的偵測門檻值為-64 dBm。
- (D) 此偵測門檻值為1 微秒內之平均接收功率，並以0 dBi 天線為參考基準。頻道初始設定得由系統隨機選取或使用使用者手動選取。

(2) 操作模式：動態頻率選擇之規定適用於以下之操作模式：

- (A) 頻道可用性檢查時間之規定，適用於主控運作模式。
- (B) 頻道移動時間之規定，適用於主控及受控運作模式。

(3) 頻道可用性檢查時間：設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達訊號時，設備才可開始使用該頻道。

(4) 頻道移動時間：在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在10秒內停止，在偵測到雷達訊號後，該期間內的傳輸應維持最多200 毫秒的正常通訊。 另外，間歇性的管理與控制訊號可在剩餘的時間中傳送，以便撤離該操作頻道。

(5) 不可佔用期間：某一頻道已被頻道可用性檢查或”服務中”監視顯示含有雷達系統，至少須有30分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

11.2 測試方式

將發射機之天線埠經由適當之衰減直接連至測試儀器。設定於待測物正常使用頻將功率設置於最小位準,將其紀錄

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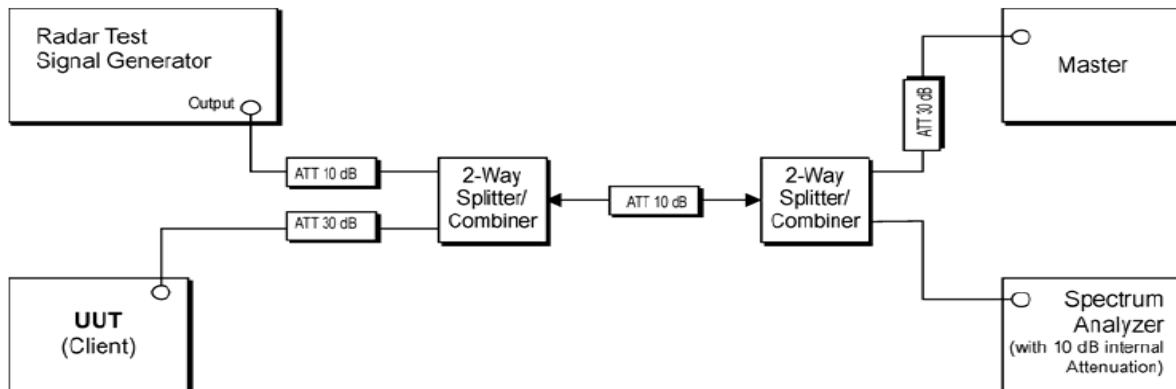
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11.3 測試配置

裝置為 slave 無雷達偵測功能



11.4 測試設備

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Signal Generator	Agilent	E4438C	MY45093613	07/31/2015	07/30/2016
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Power Splitter	Mini-Circuits	ZN2PD-9G-S+	N/A	01/02/2016	01/01/2017
Power Splitter	Mini-Circuits	ZN2PD-9G-S+	N/A	01/02/2016	01/01/2017
Attenuator	Agilent	8495B	3308A22470	01/02/2016	01/01/2017

11.5 動態頻率測試限制

1. 操作模式，動態頻率選擇的規定適用於以下之操作模式：

(I) 頻道可用性檢查時間的規定，適用於主控運作模式。

(II) 頻道移動時間的規定，適用於主控及受控運作模式。

2. 頻道可用性檢查時間：設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在 60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達信號時，設備才可開始使用該頻道。

3. 頻道移動時間：在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在 10 秒內停止，在偵測到雷達信號後，該期間內的傳輸應維持最多 200 毫秒的正常通訊。另外，間歇性

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的管理與控制信號可在剩餘的時間中傳送，以便撤離該操作頻道。

4. 不可佔用期間：某一頻道已被頻道可用性檢查或“服務中”監視顯示含有雷達系統，至少須有 30 分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

11.6 功率控制與動態頻率選擇量測結果

11.6.1 功率小於 500mW 不需有功率控制功能

11.6.2 動態頻率選擇測試結果

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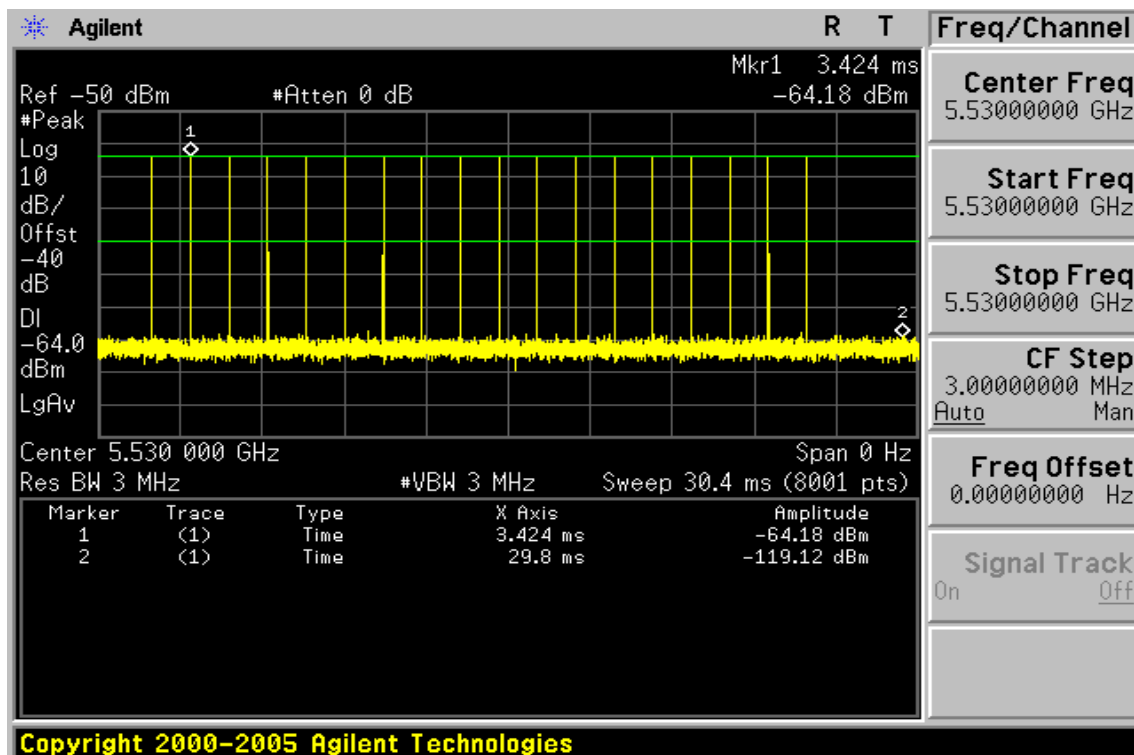
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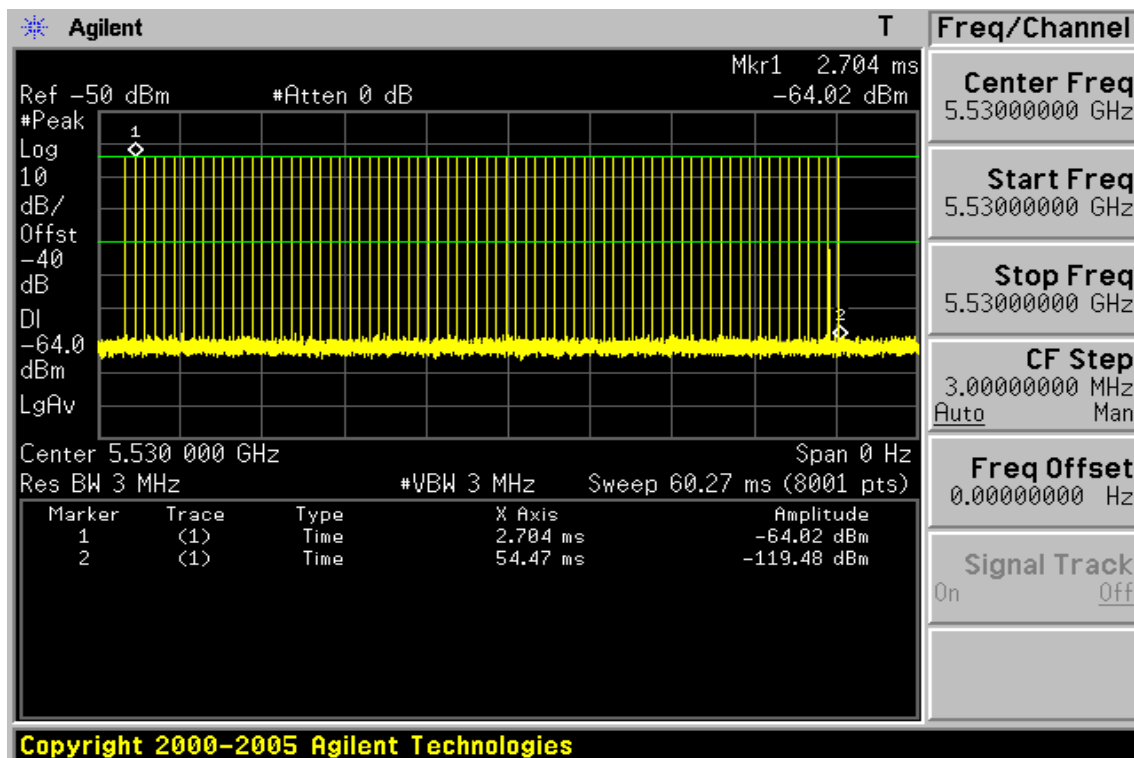
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Radar type 0 雷達波校正強度



Radar type 1A 雷達波校正強度

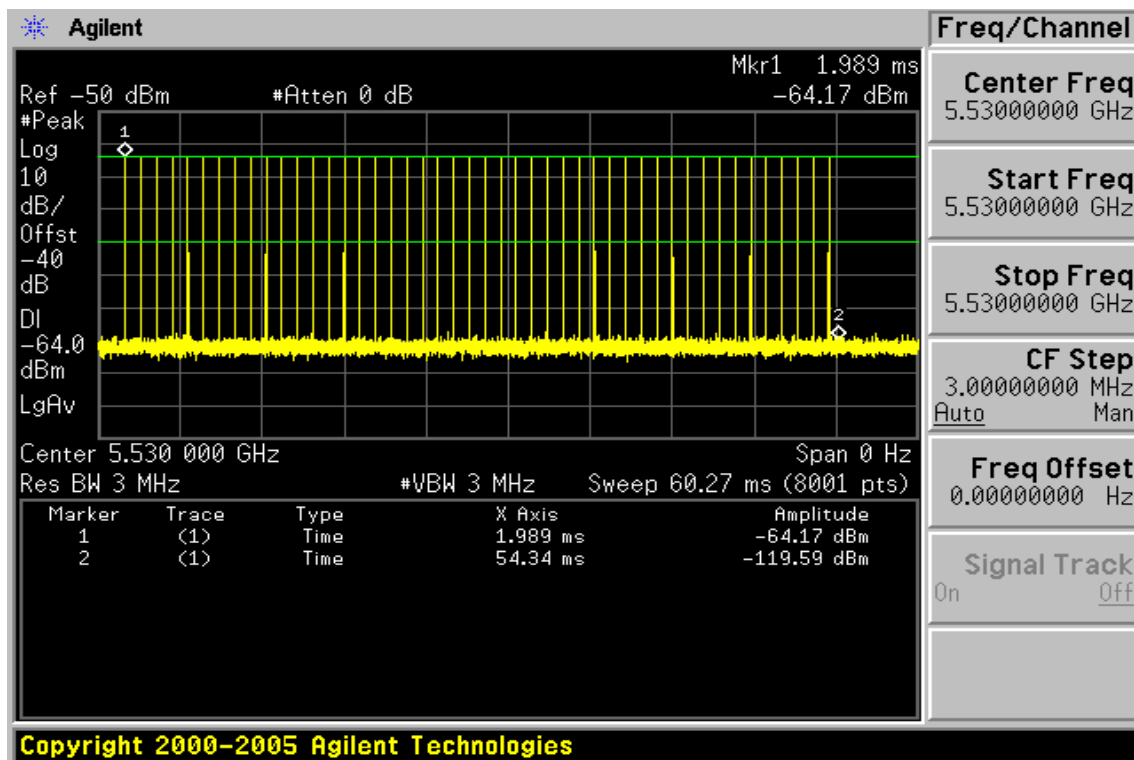


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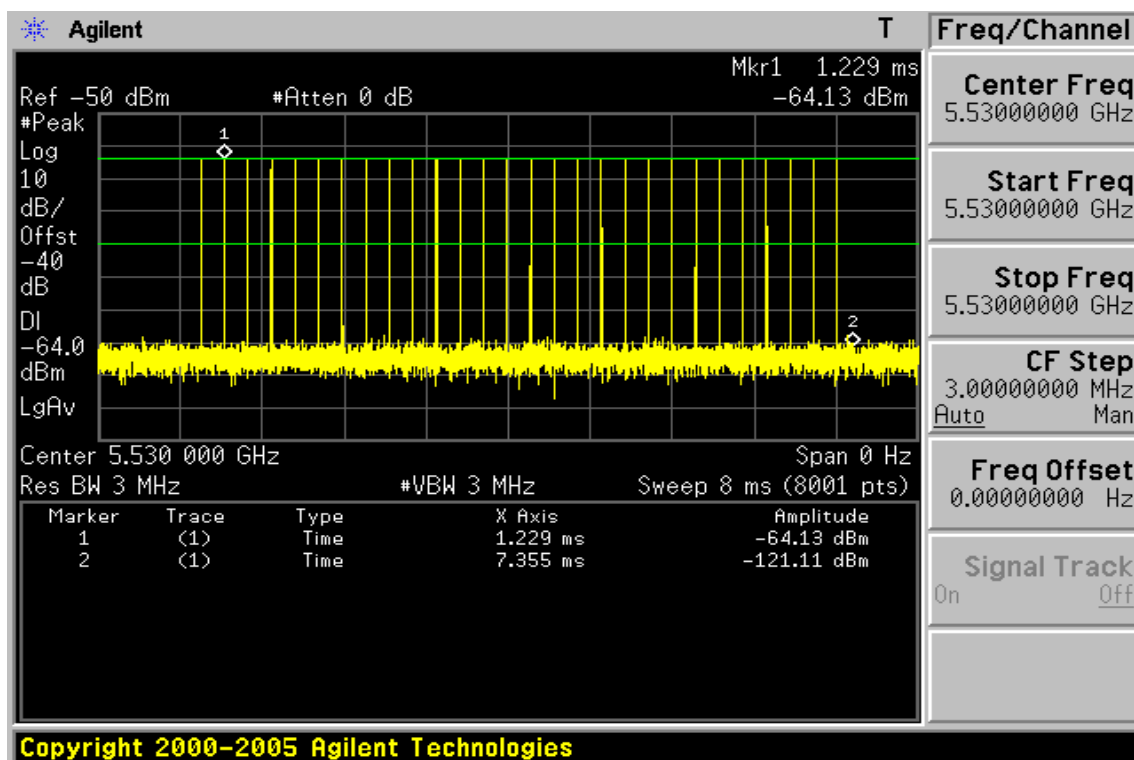
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Radar type 1B 雷達波校正強度



Radar type 2



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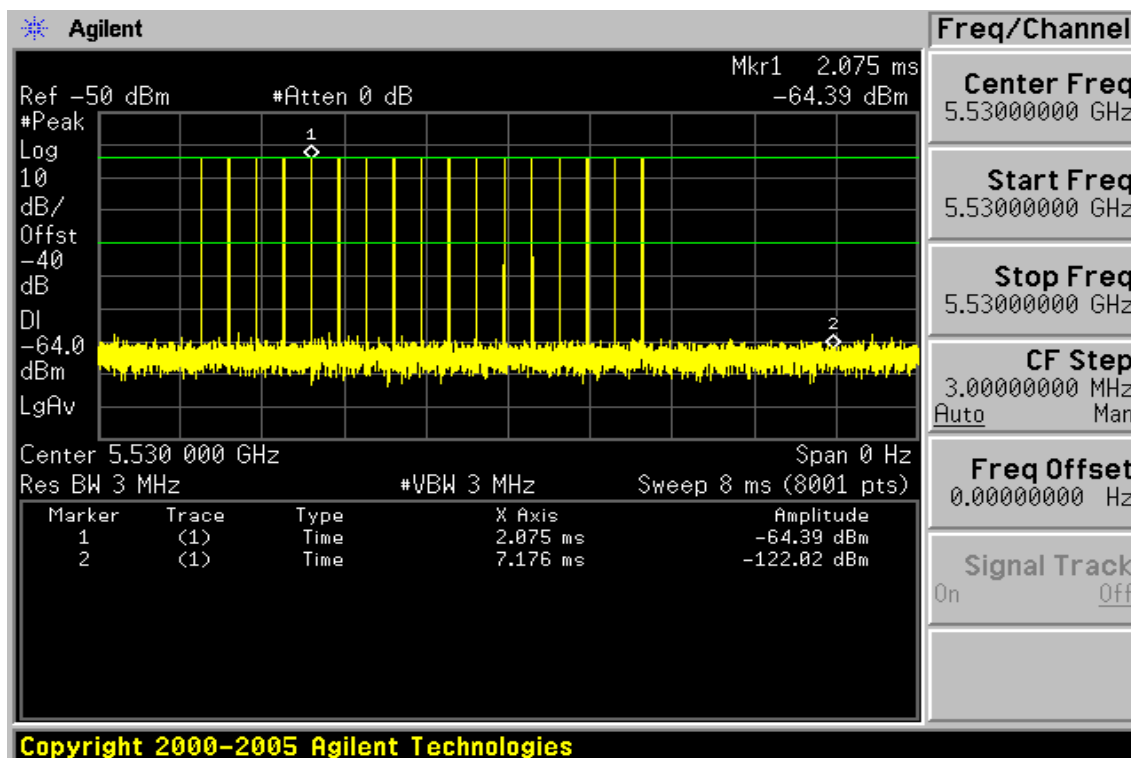
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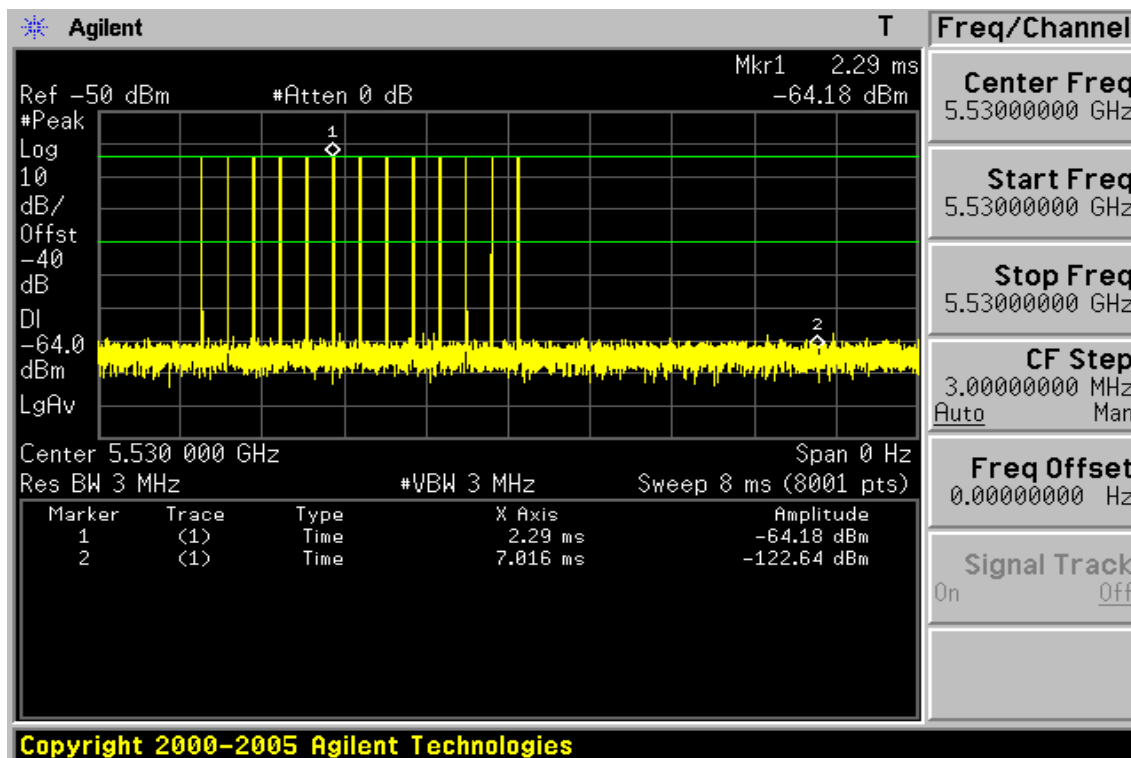
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Radar type 3



Radar type 4



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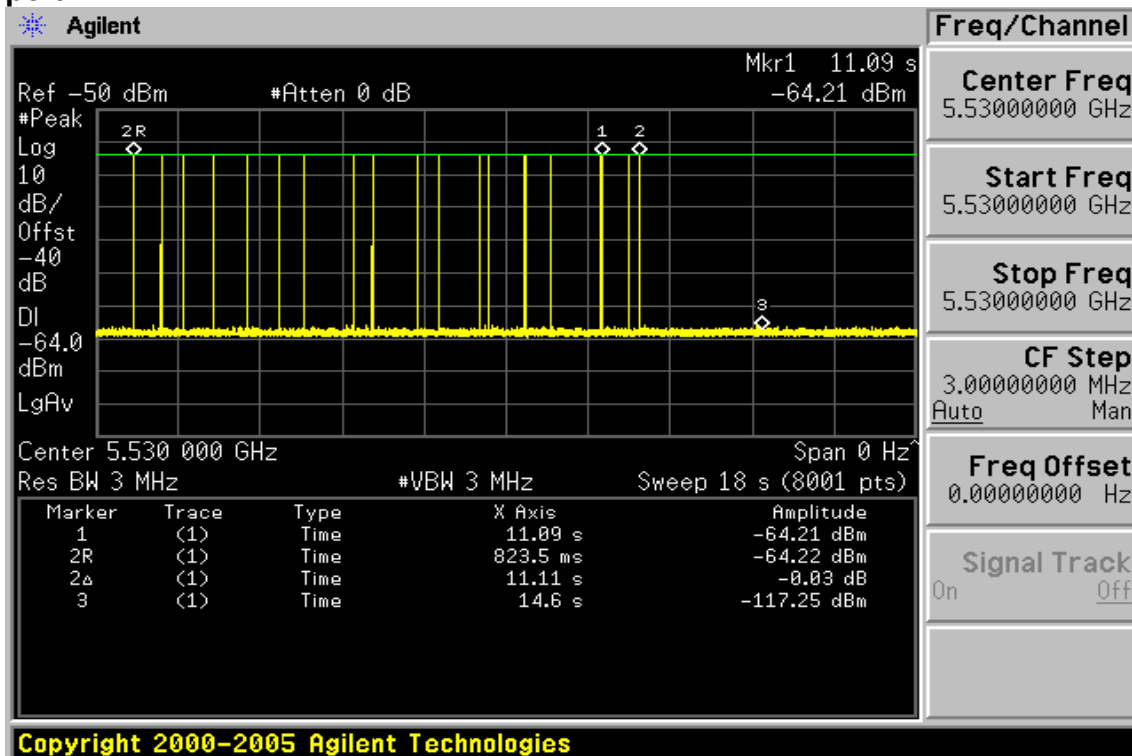
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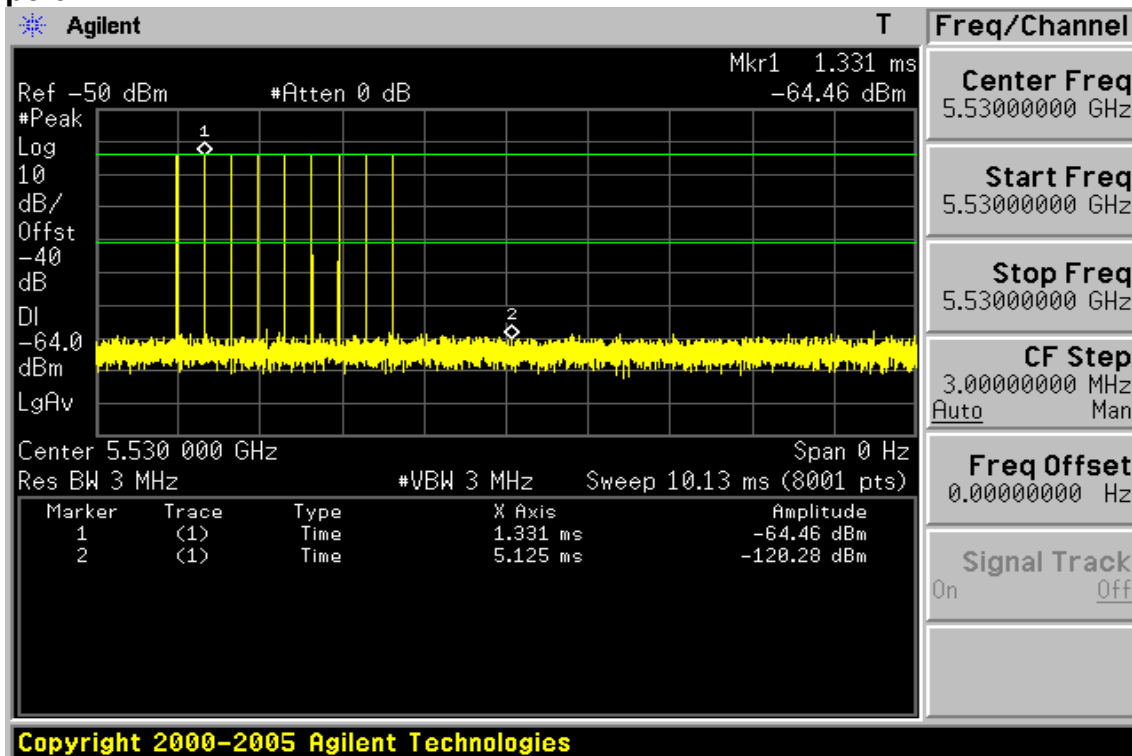
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Radar type 5



Radar type 6



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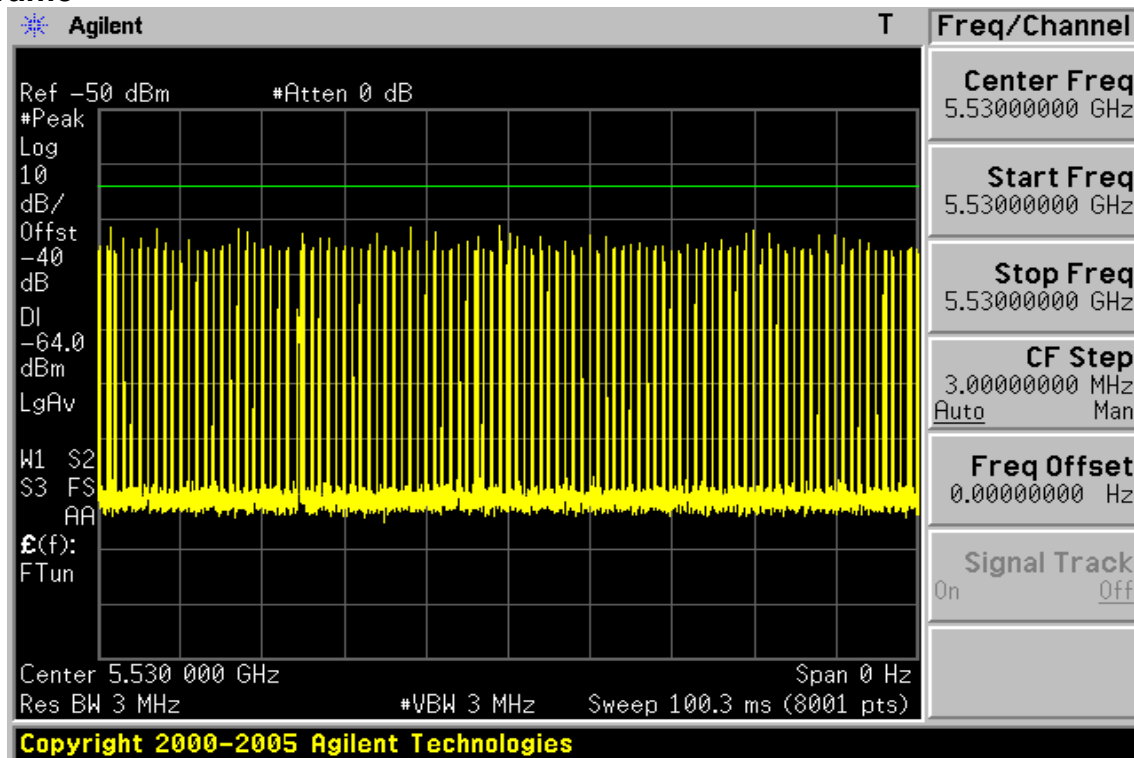
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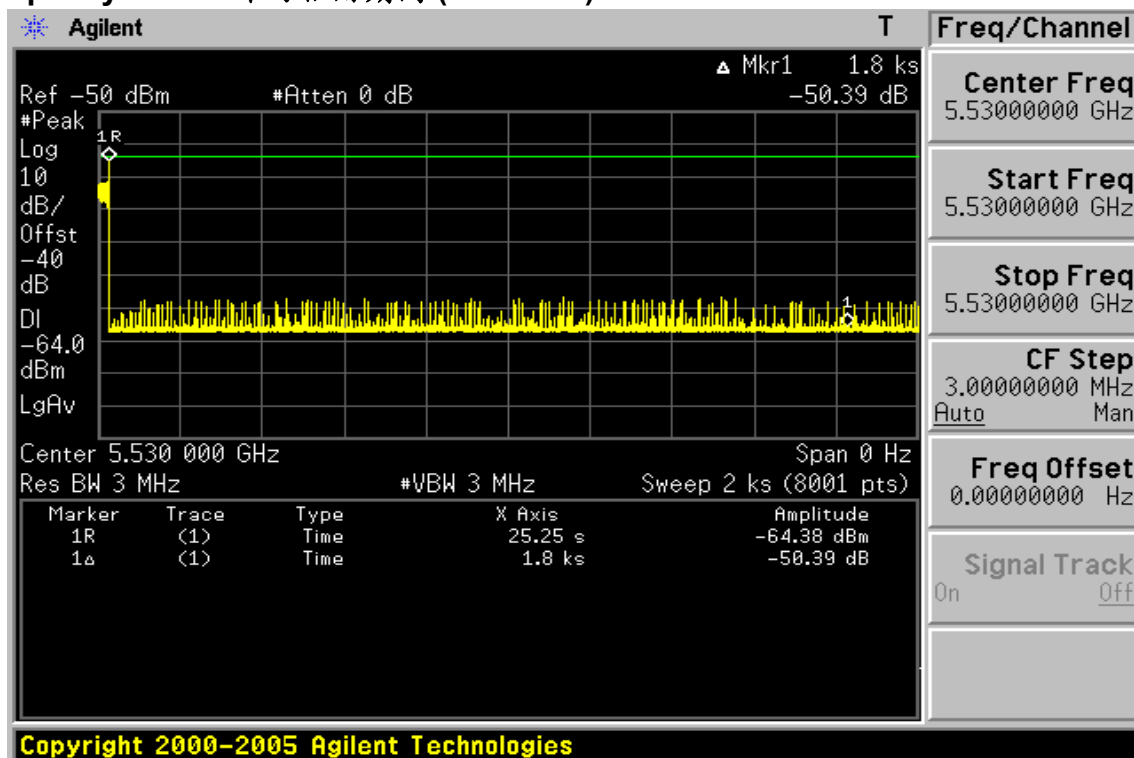
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802.11ac VHT80 Mode Test Data Plot

WLAN traffic



Non-occupancy Period 不可佔用期間 (5530MHz)



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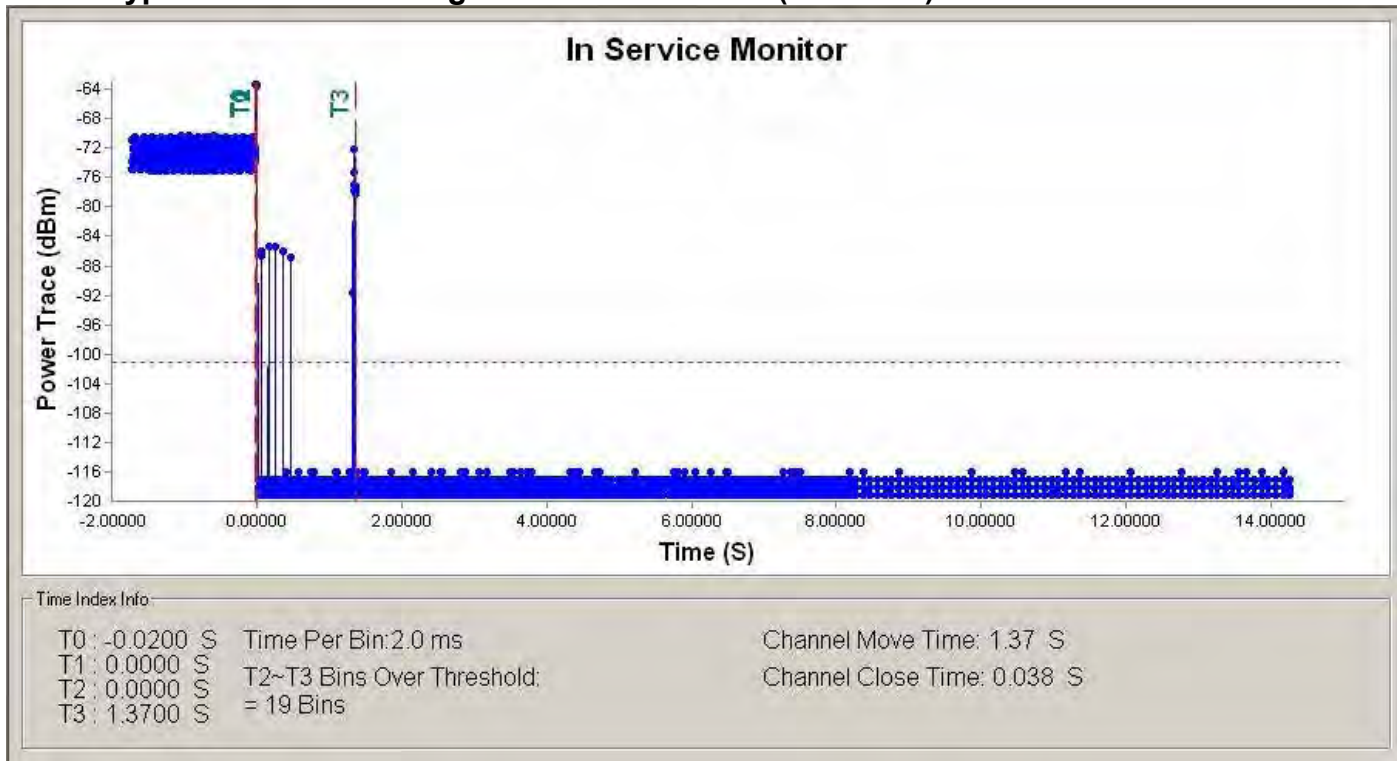
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Radar Type 1 Channel Closing Transmission Time (5530MHz)



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11.6.3 功率控制與動態頻率選擇量測結果

測試設備: 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2

型號:

Combo Module

環境溫度: 25°C

環境濕度: 60%

測試者:

曾健榮

測試日期: Aug/12/2016

測試項目	測試結果	結果判定
頻道移動/結束時間	請參閱12.6節	合格
不可佔用期間	請參閱12.6節	合格
功率控制	EIRP值<500mW	不須具備TPC機能

~ End of Report ~

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