# 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<br>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<br>802.11 n HT20 / ac VHT20 mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz<br>802.11 n HT40 / ac VHT40 mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz<br>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

報告簽署人
張俊卿簽章

Testing Laboratory
0513

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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。
2. 此份報告未經本公司同意，不得部份摘錄複製使用。

| | | | |
|---|---|---|---|
| **測試人員:** | 林泊廷 | **日期 :** | **07/23/2019** |
| | **林 泊 廷 / 工 程 師** | | |
| **報告製作:** | 湯宜萱 | **日期 :** | **07/23/2019** |
| | **湯 宜 萱 / 行 政** | | |
| **報告審核:** | 張俊卿 | **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<br>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<br>802.11 n HT20 / ac VHT20 mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz<br>802.11 n HT40 / ac VHT40 mode: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470MHz~5725MHz, 5725MHz~5850MHz<br>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,<br>802.11a: 5250~5350MHz: 4 channels<br>802.11a: 5470~5725MHz: 12 channels<br>802.11a: 5725~5850MHz: 5 channels<br>802.11n HT20 / ac VHT20: 5150~5250MHz: 4 channel<br>802.11n HT20 / ac VHT20: 5250~5350MHz: 4 channels<br>802.11n HT20 / ac VHT20: 5470~5725MHz: 11 channels<br>802.11n HT20 / ac VHT20: 5725~5850MHz: 5 channels<br>802.11n HT40 / ac VHT40: 5150~5250MHz: 2 channels<br>802.11n HT40 / ac VHT40: 5250~5350MHz: 2 channel<br>802.11n HT40 / ac VHT40: 5470~5725MHz: 5 channels<br>802.11n HT40 / ac VHT40: 5725~5850MHz: 2 channels<br>802.11ac VHT80: 5150~5250MHz: 1 channel<br>802.11ac VHT80: 5250~5350MHz: 1 channel<br>802.11ac VHT80: 5470~5725MHz: 2 channel<br>802.11ac VHT80: 5725~5850MHz: 1 channel |
| 天線 | PIFA Antenna, Supplier: Hon Hai Precision Industry Co., Ltd.<br>ANT 0<br>1. Model No.: W-M-D-B-N-0-0100<br>5GHz Gain: 1.28dBi (5150MHz-5250MHz)<br>5GHz Gain: 1.28dBi (5250MHz-5350MHz)<br>5GHz Gain: 2.21dBi (5470MHz-5725MHz)<br>5GHz Gain: 1.01dBi (5725MHz-5850MHz)<br><br>2. Model No.: W-M-D-B-N-0-0390<br>5GHz Gain: 0.178dBi (5150MHz-5250MHz)<br>5GHz Gain: 0.178dBi (5250MHz-5350MHz)<br>5GHz Gain: 1.108dBi (5470MHz-5725MHz)<br>5GHz Gain: -0.092dBi (5725MHz-5850MHz)<br><br>ANT 1<br>1. Model No.: W-M-D-B-N-0-0100<br>5GHz Gain:1.28dBi (5150MHz-5250MHz)<br>5GHz Gain: 1.28dBi (5250MHz-5350MHz)<br>5GHz Gain: 2.21dBi (5470MHz-5725MHz)<br>5GHz Gain: 1.01dBi (5725MHz-5850MHz)<br><br>2. Model No.: W-M-D-B-N-1-0260<br>5GHz Gain: 0.672dBi (5150MHz-5250MHz)<br>5GHz Gain: 0.672dBi (5250MHz-5350MHz)<br>5GHz Gain: 1.602dBi (5470MHz-5725MHz)<br>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 *u*H 及50Ω 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<br>MHz | 測試距離<br>m | 干擾限制<br>μV/m | 干擾限制<br>dBμV/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*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* (30*EIRP)^(1/2) / 3 uV/m

= 68.3dBuV/m

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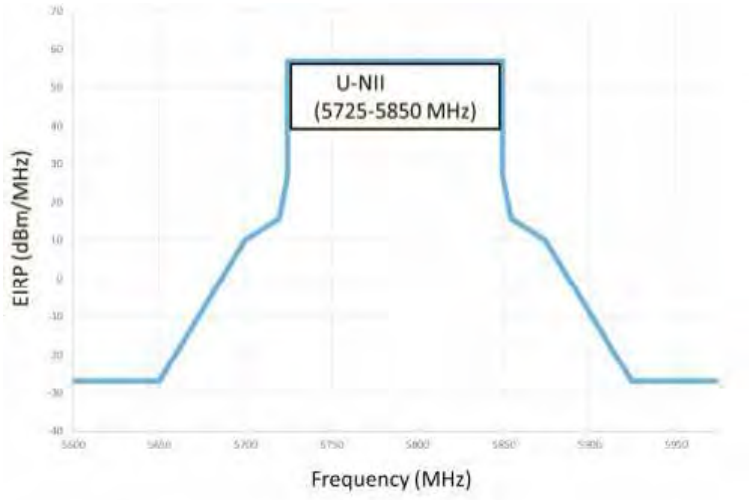


圖 1

**(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

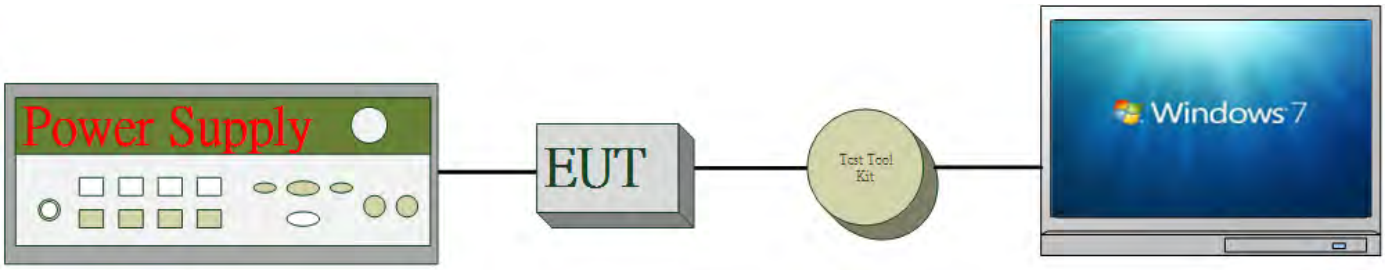
| 裝置名稱 | 製造者/申請者 | 型號 | 纜線說明 |
|---|---|---|---|
| * 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module | 鴻海精密工業股份有限公/鴻海精密工業股份有限公司 | WBU034-EA | 無纜線 |

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

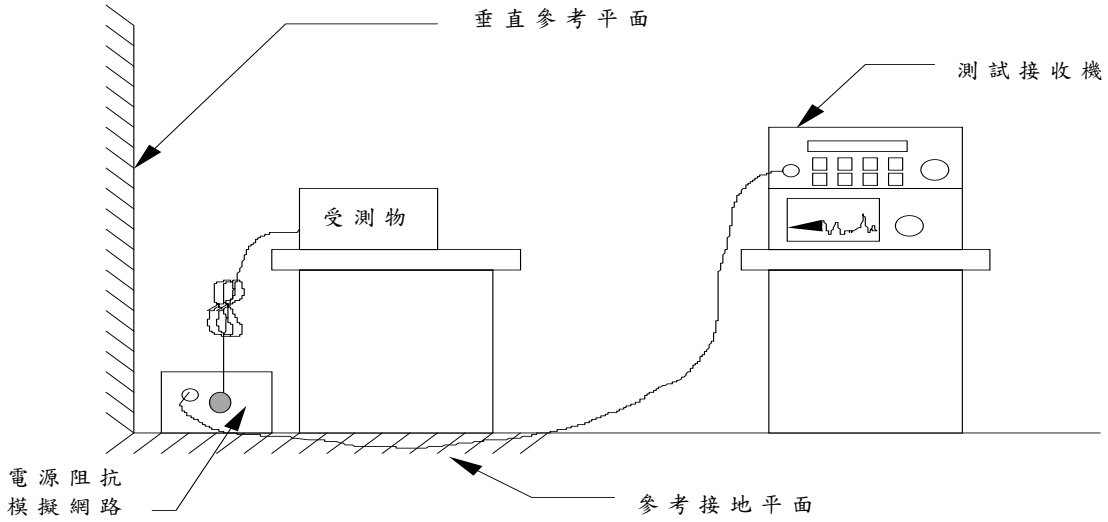
## 5.1 適用標準

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

*結果值 = 儀器讀值(QP/AV) + 校正因子*

其中校正因子為：

饋線損失 + 電源阻抗模擬網路損失

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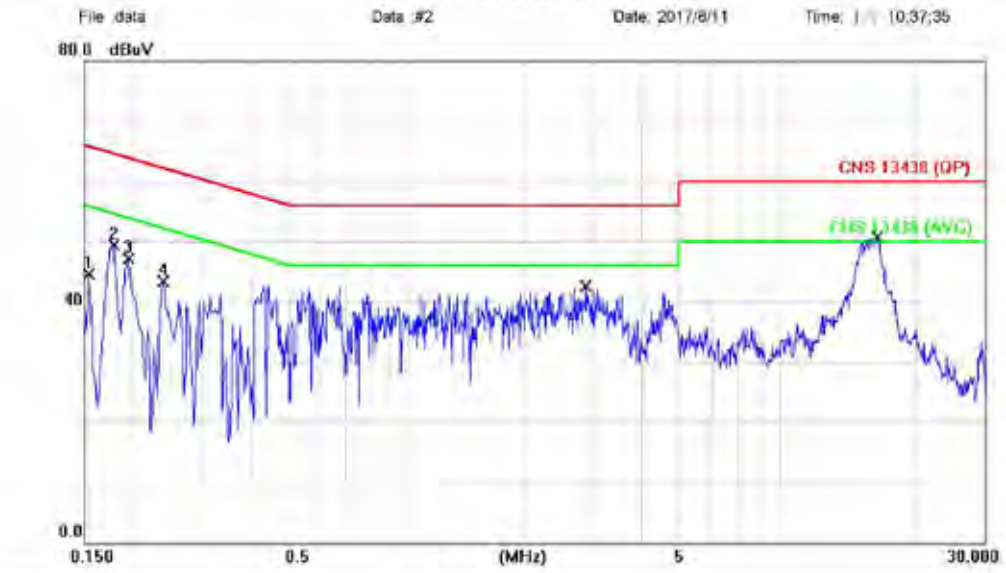
## 5.5 傳導干擾之量測結果

| | | | |
|---|---|---|---|
| 測試設備: | 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: | | 測試日期: | Aug. 11, 2017 |

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

Phase: L1
Power: AC 110V/60Hz

Temperature: 25 °C
Humidity: 85 %




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1540 | 44.43 | 0.00 | 44.43 | 65.78 | -21.35 | peak | |
| 2 | | 0.1780 | 49.27 | 0.00 | 49.27 | 64.58 | -15.31 | peak | |
| 3 | | 0.1940 | 47.15 | 0.00 | 47.15 | 63.86 | -16.71 | peak | |
| 4 | | 0.2380 | 43.24 | 0.00 | 43.24 | 62.17 | -18.93 | peak | |
| 5 | | 2.8740 | 38.60 | 0.03 | 38.63 | 56.00 | -17.37 | QP | |
| 6 | | 2.8740 | 29.30 | 0.03 | 29.33 | 46.00 | -16.67 | AVG | |
| 7 | | 15.8900 | 46.00 | 0.10 | 46.10 | 60.00 | -13.90 | QP | |
| 8 | * | 15.8900 | 40.50 | 0.10 | 40.60 | 50.00 | -9.40 | AVG | |

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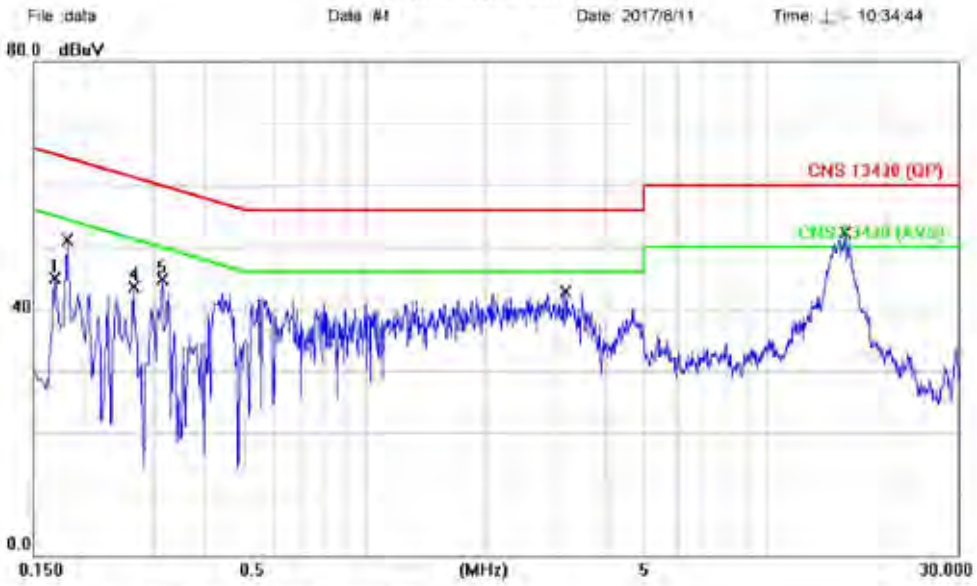
Site: Conduction Room
Limit: CNS 13438 (QP)
Mode: Operation mode
Note:

Phase: N
Power: AC 110V/60Hz

Temperature: 25 °C
Humidity: 85 %

## Conducted Emission




| No. | Mk. | Freq | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 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)≦-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*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* (30*EIRP)^(1/2) / 3 uV/m

= 68.3dBuV/m

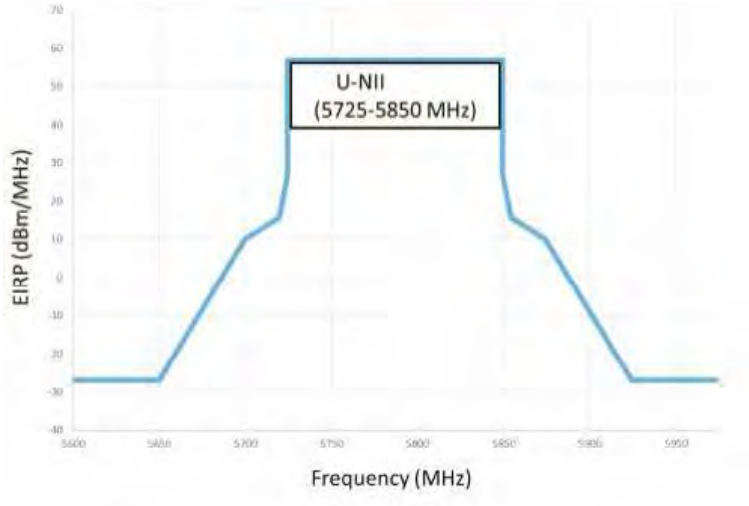


圖1

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**LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS**

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

## 6.2 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。

幅射傳導量測

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>=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

***結果值 = 讀值 + 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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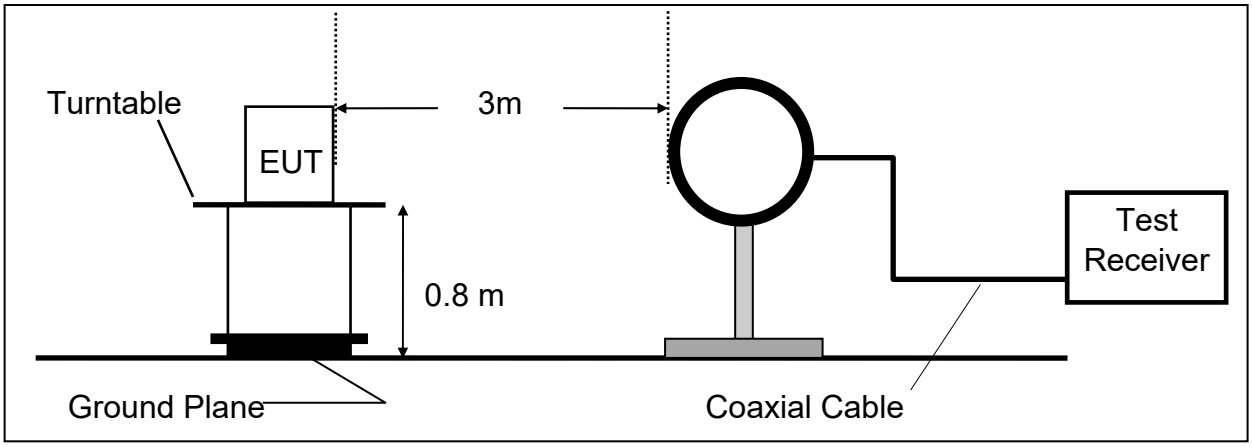
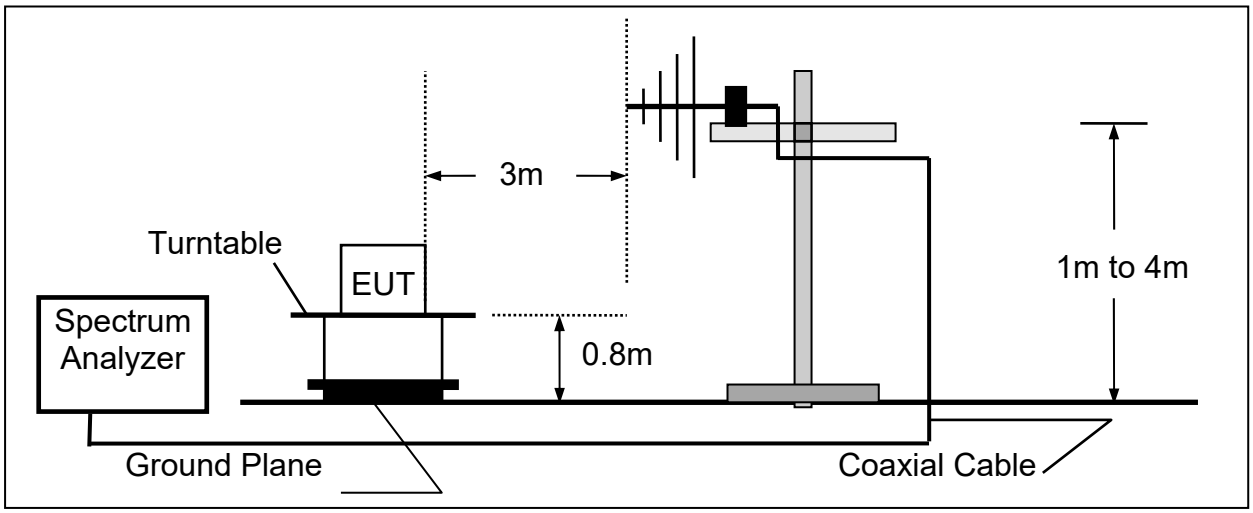
## 6.4 輻射之測試配置

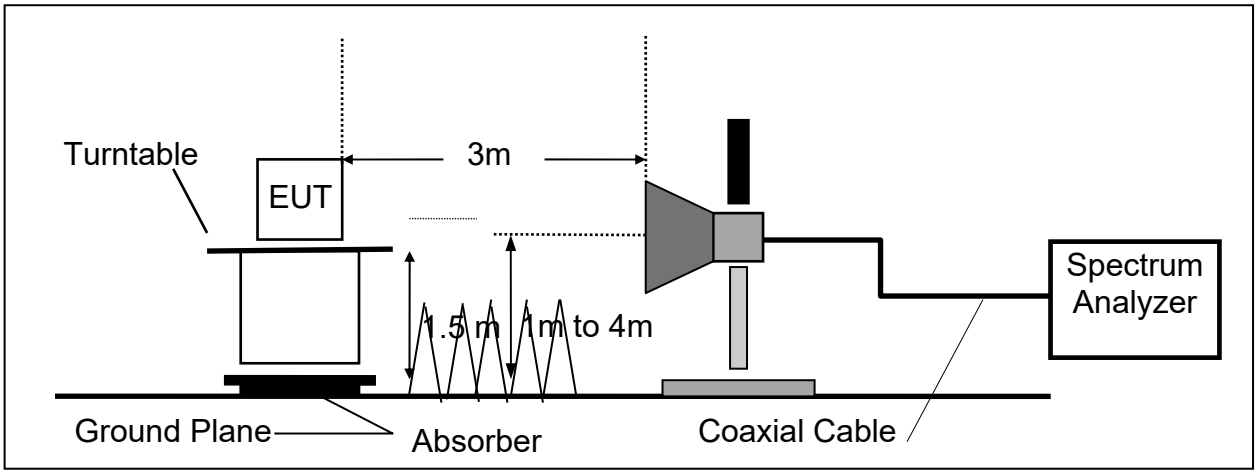
(A) 量測頻率低於 30MHz 以下之測試配置




(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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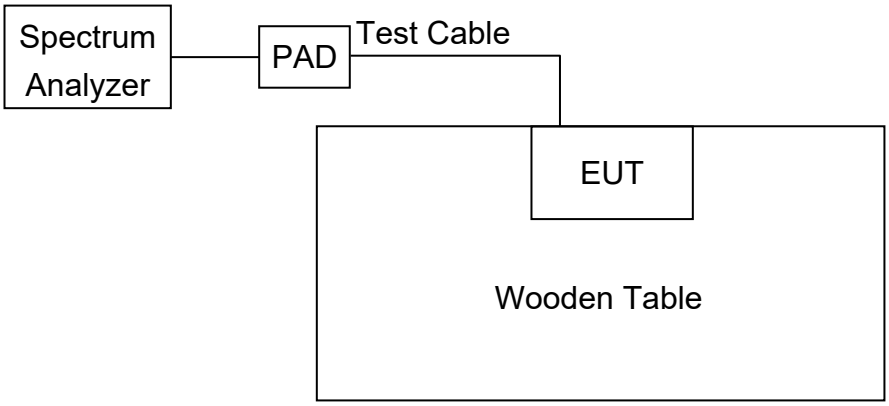
(D) 傳導之測試配置圖




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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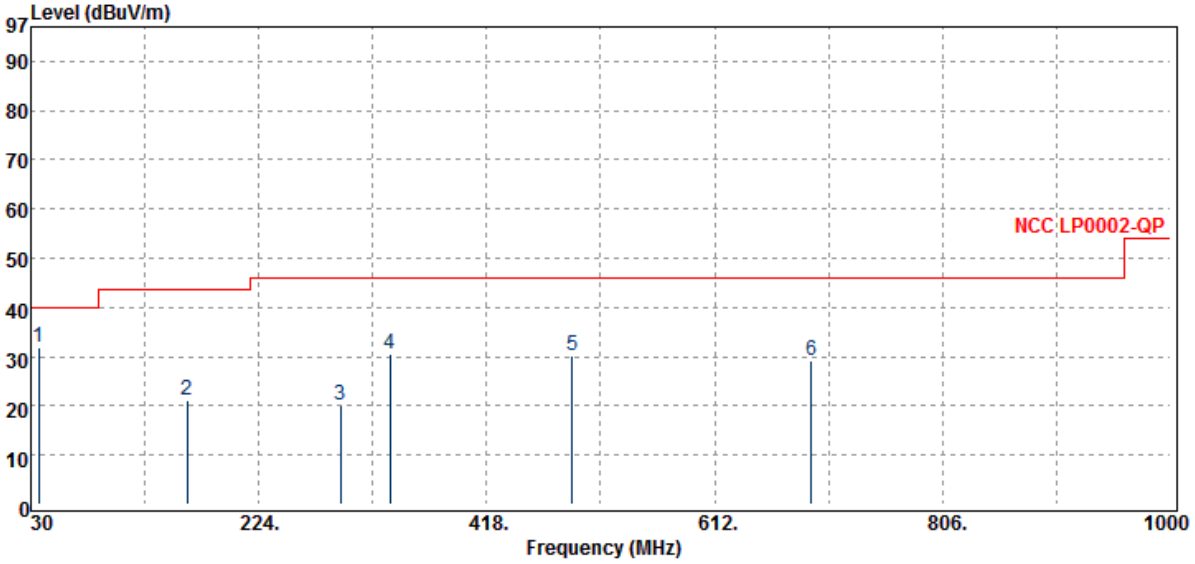
## 6.5 場強輻射之量測結果

### 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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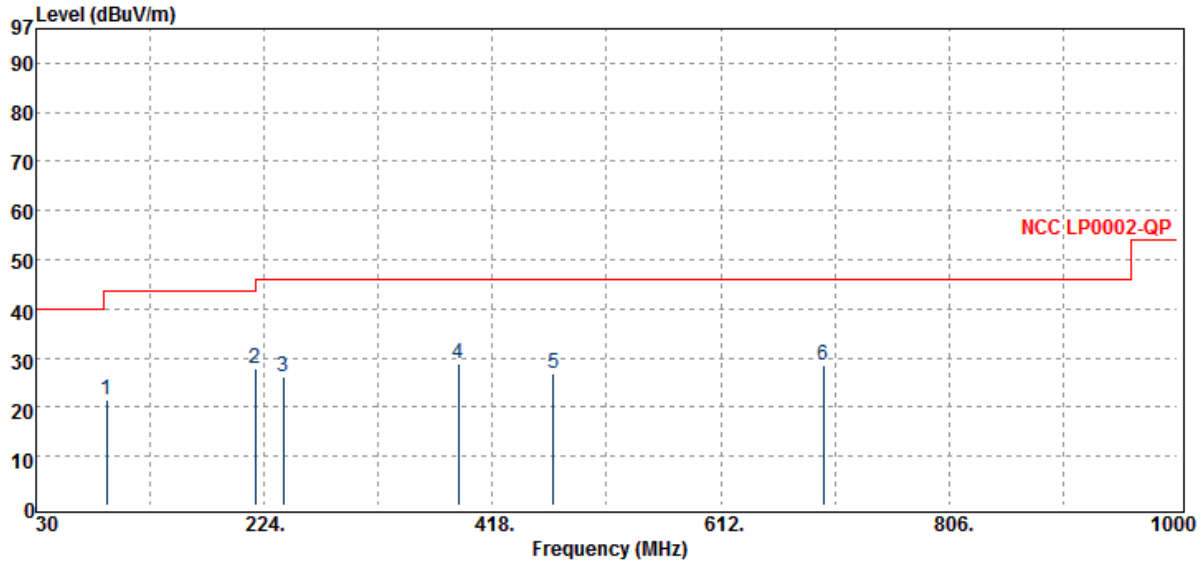
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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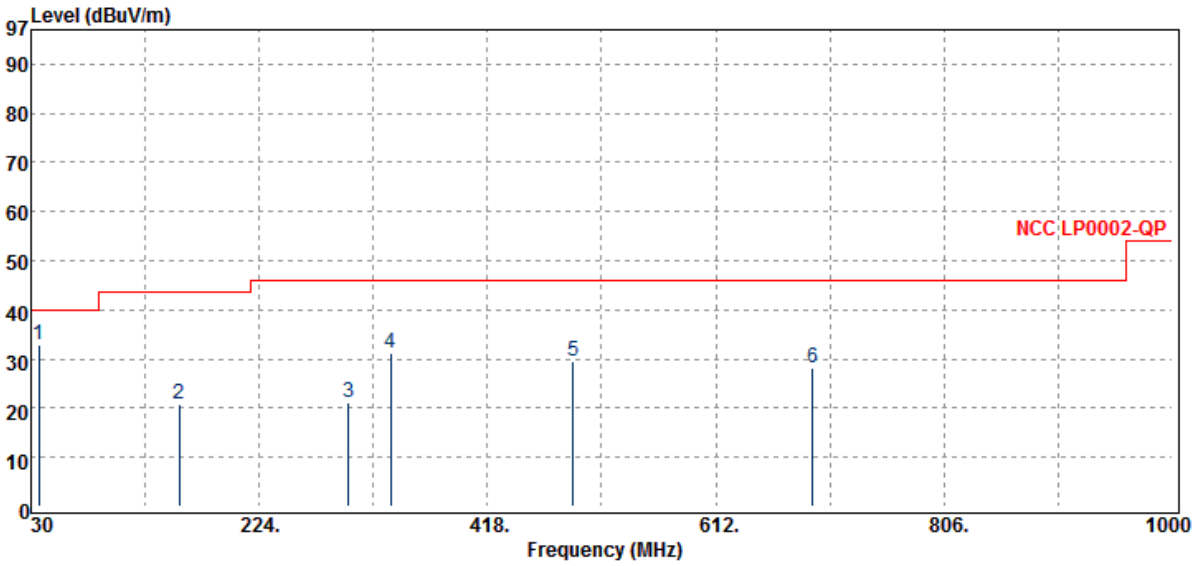
## 802.11a / 6Mbps 發射模式 1GHz 以下測試 (5250MHz-5350MHz)

| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5300 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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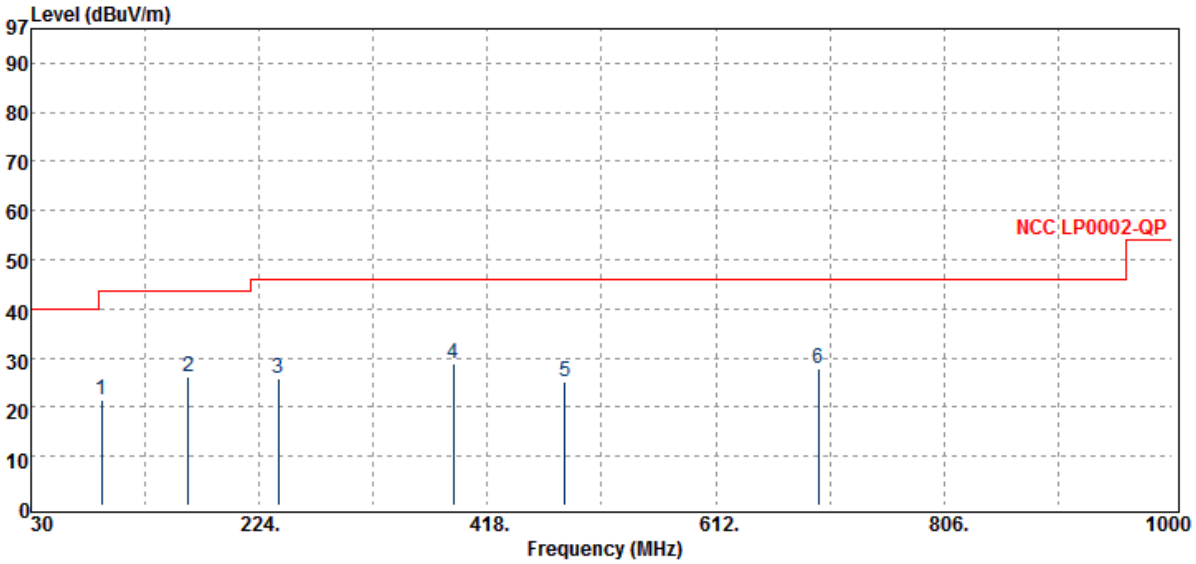
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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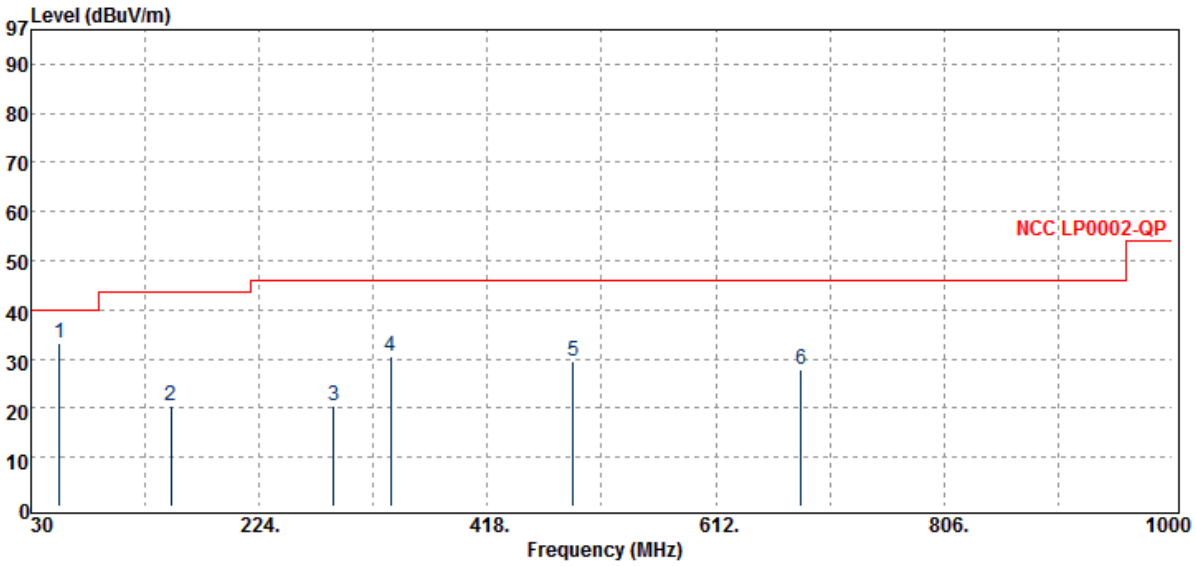
## 802.11a / 6Mbps 發射模式 1GHz 以下測試 (5470MHz-5725MHz)

| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5580 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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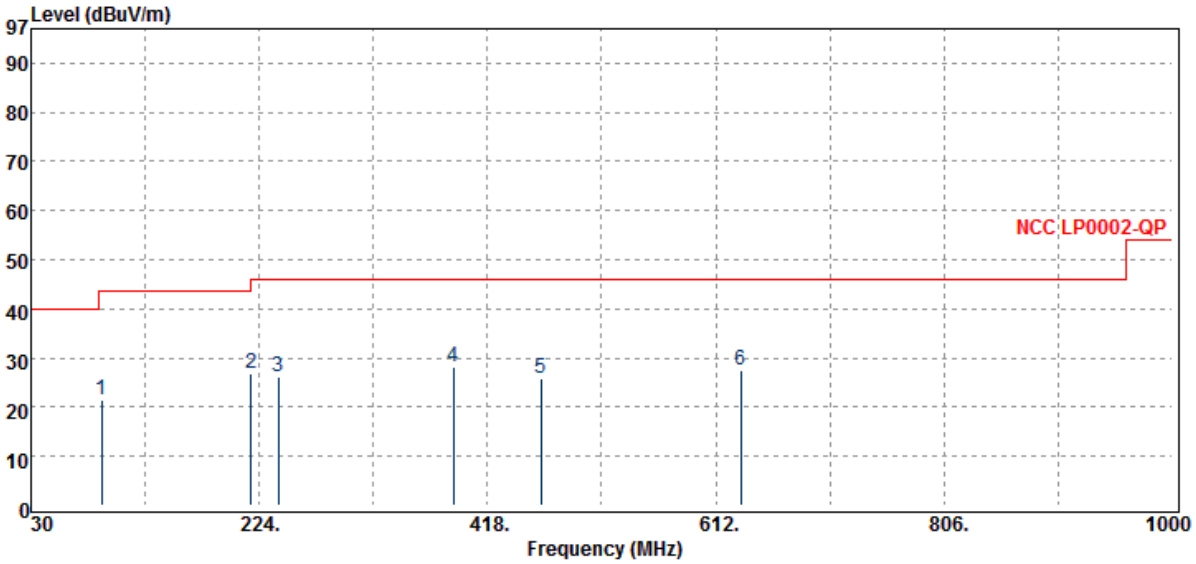
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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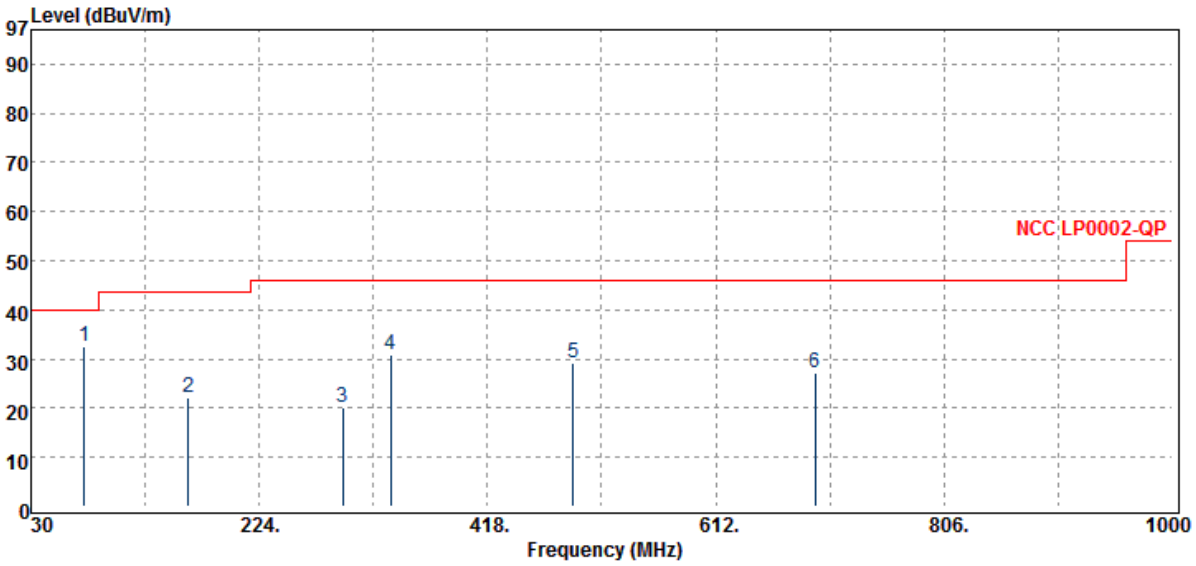
## 802.11a / 6Mbps 發射模式 1GHz 以下測試 (5725MHz-5850MHz)

| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5785 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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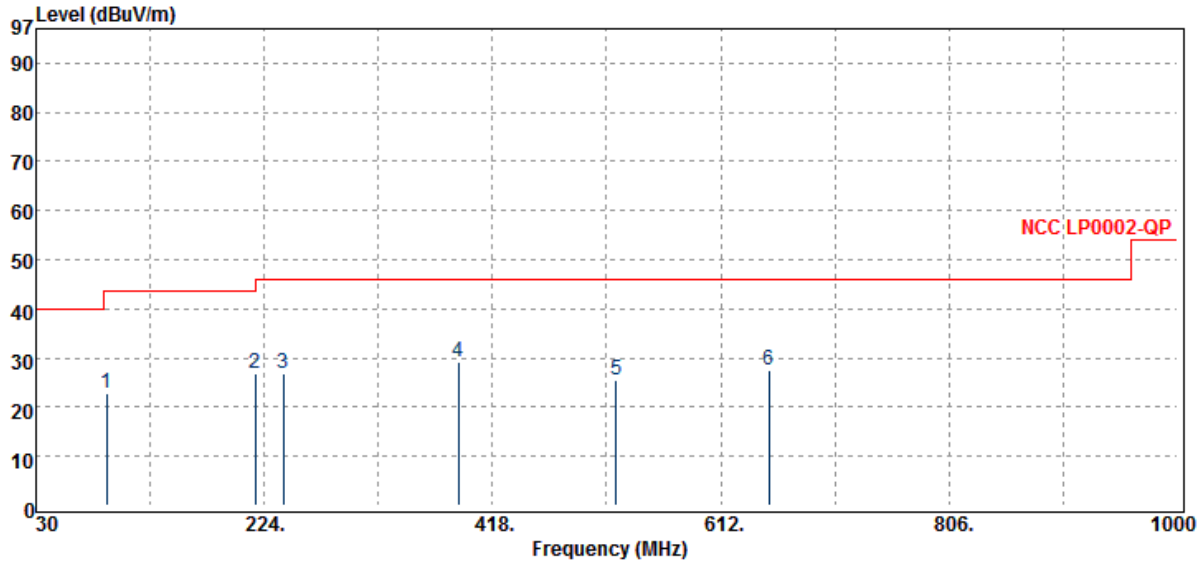
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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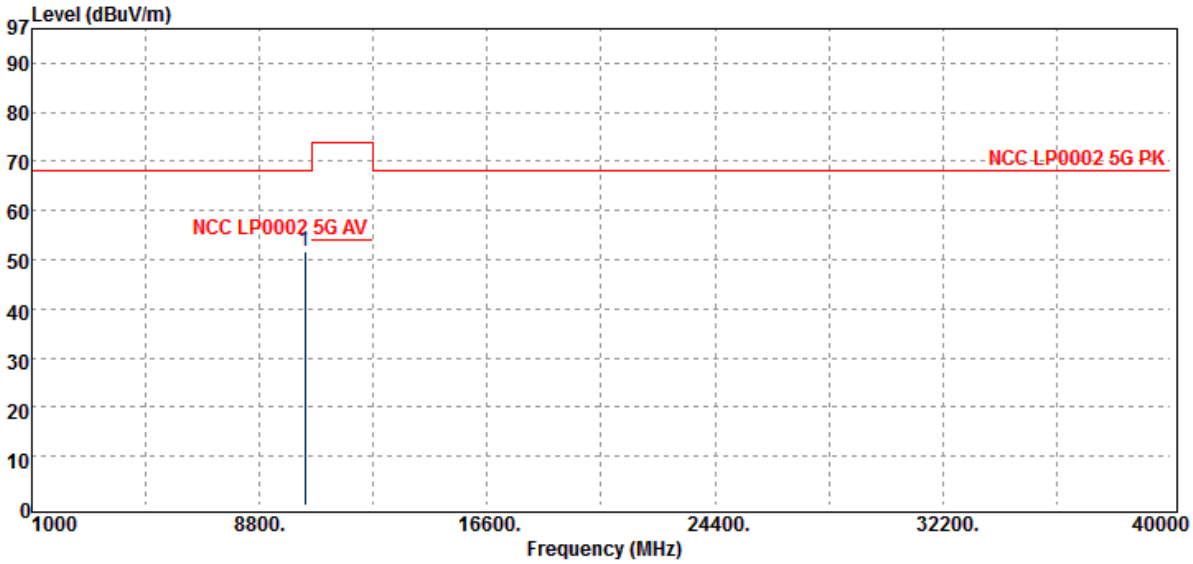
## 802.11a / 6Mbps 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 10360.00 | H | Peak | 33.55 | 18.29 | 51.84 | 68.30 | -16.46 |

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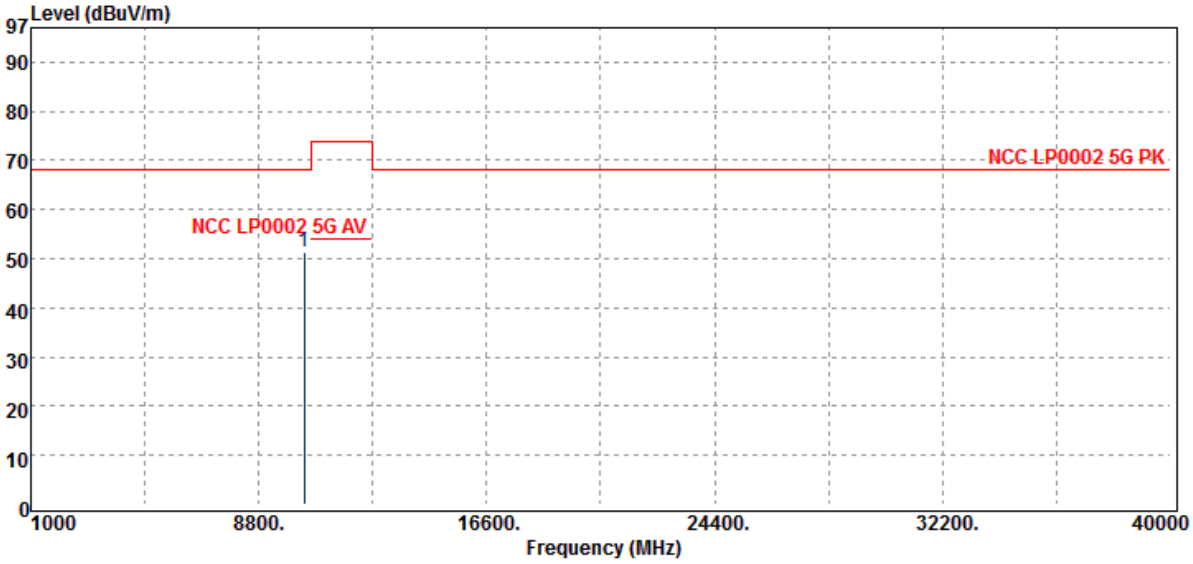
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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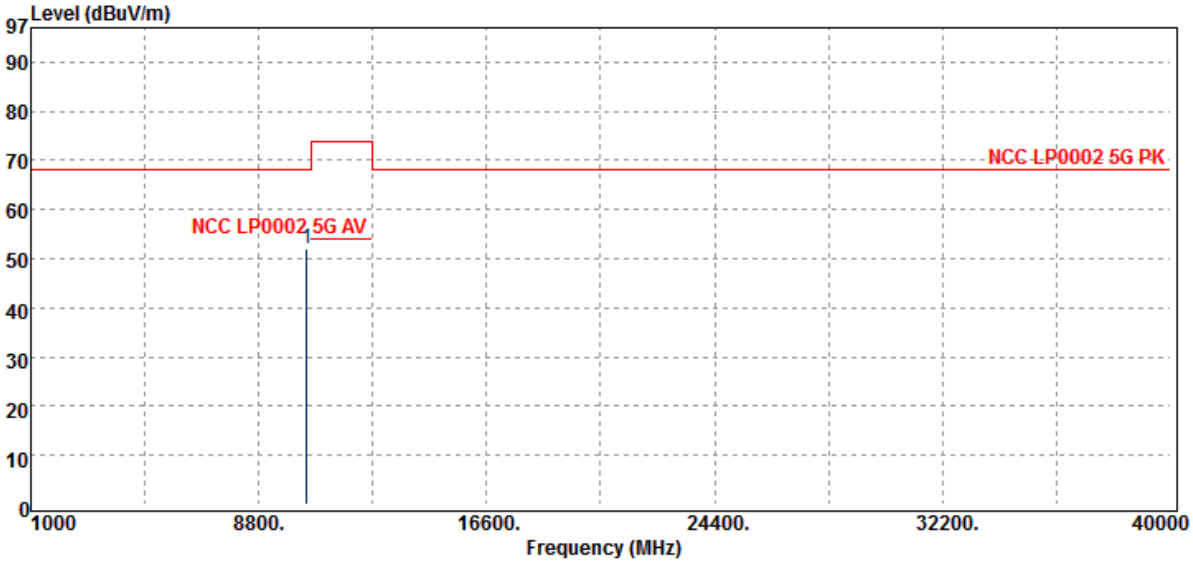
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




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

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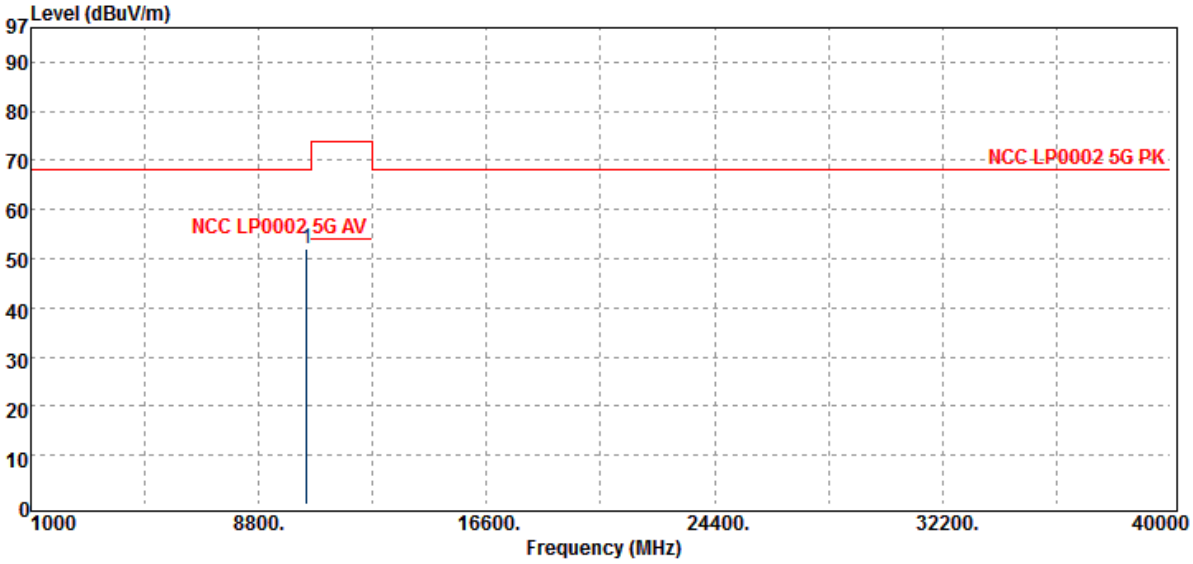
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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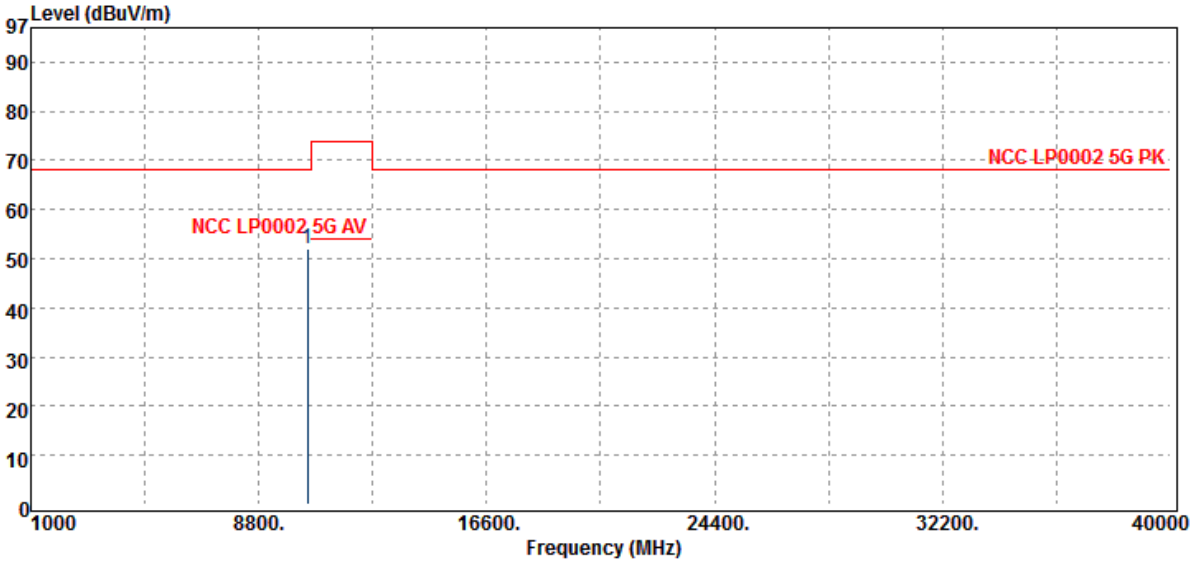
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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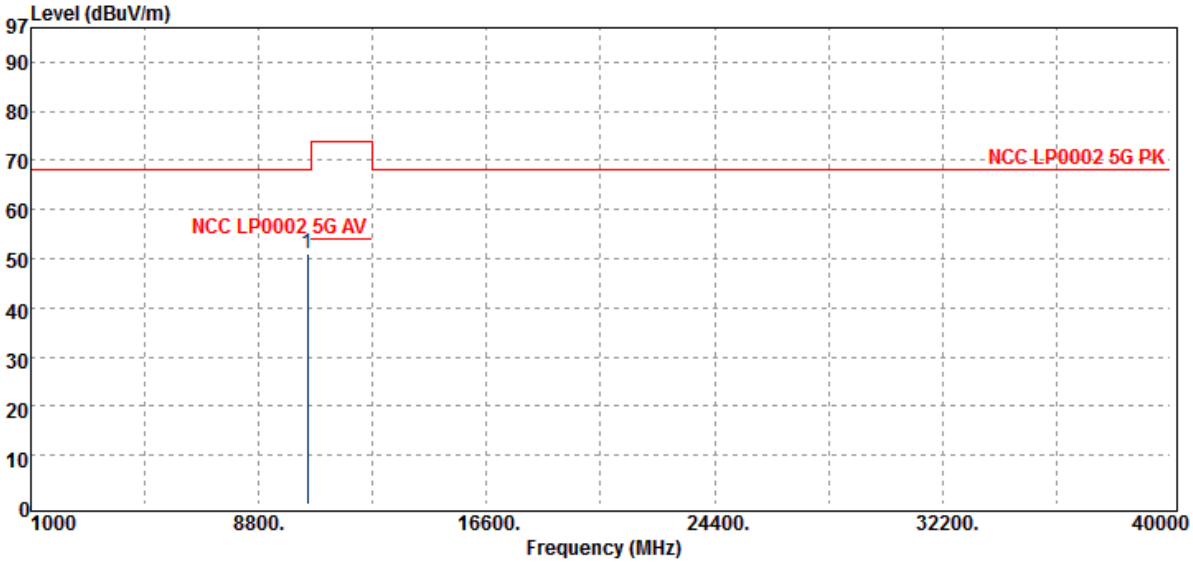
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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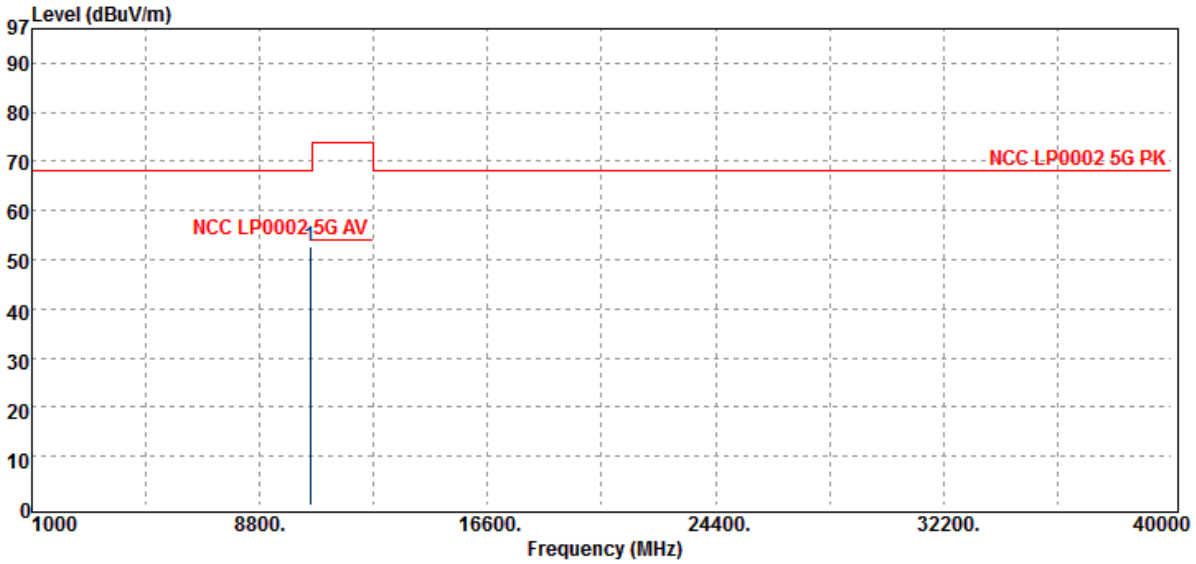
## 802.11a / 6Mbps 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | 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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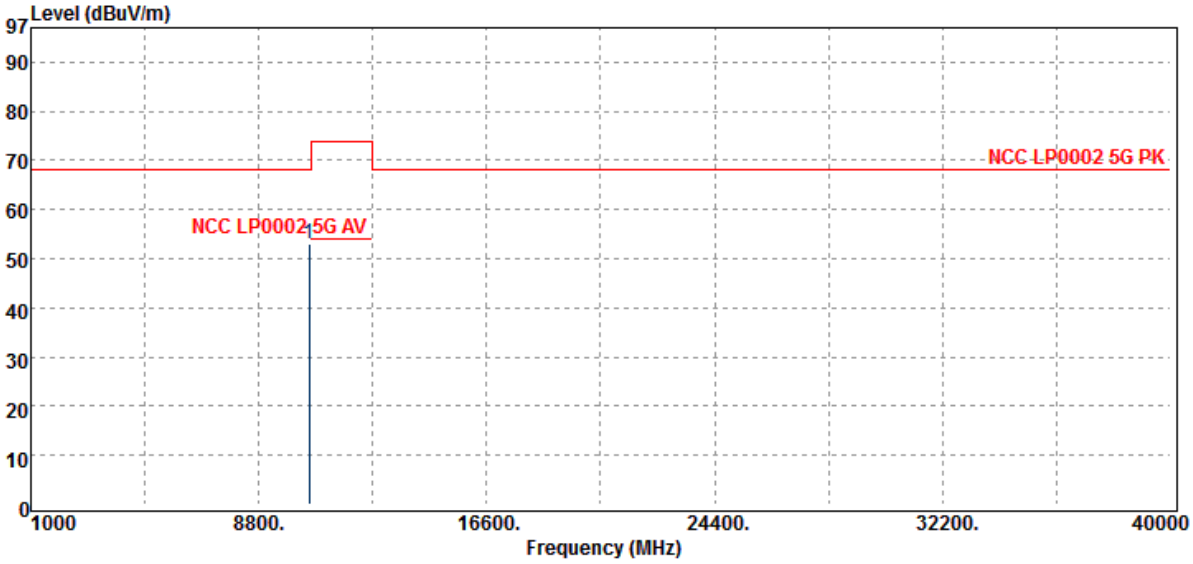
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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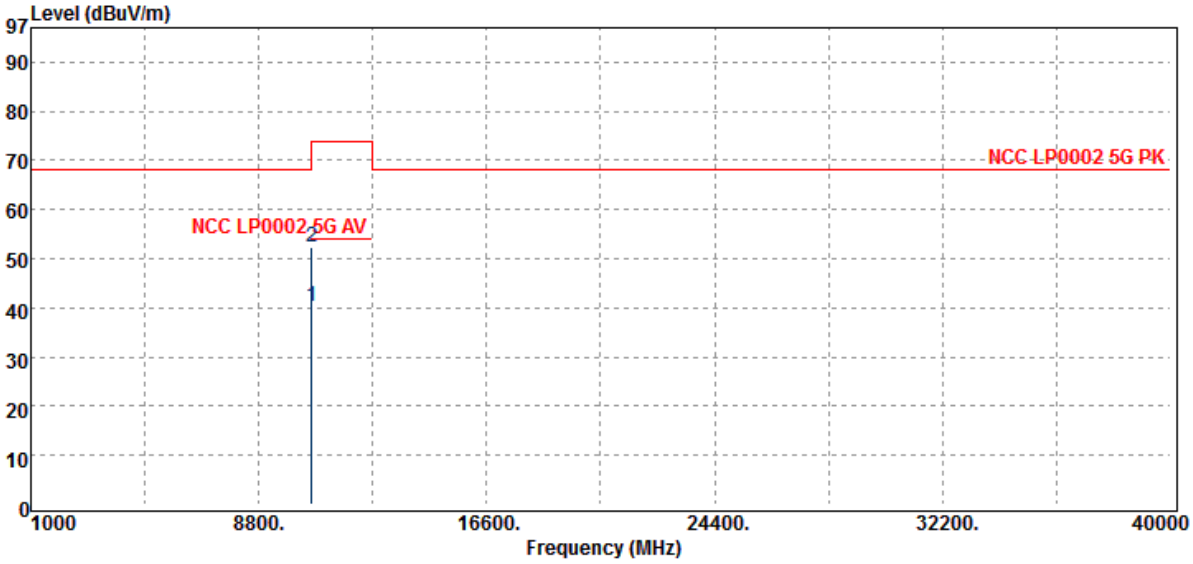
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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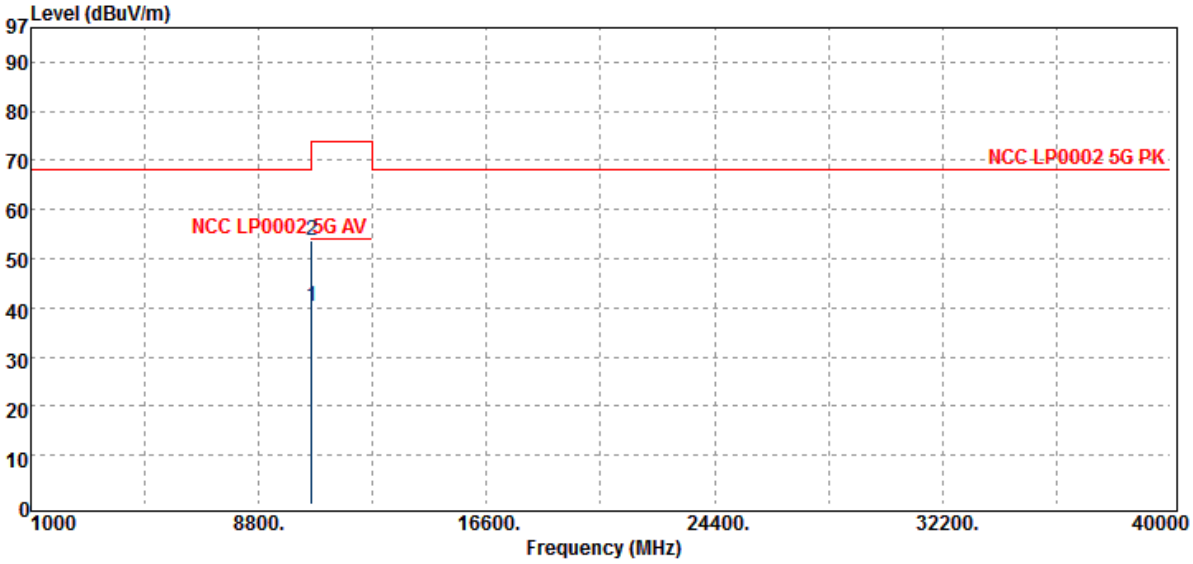
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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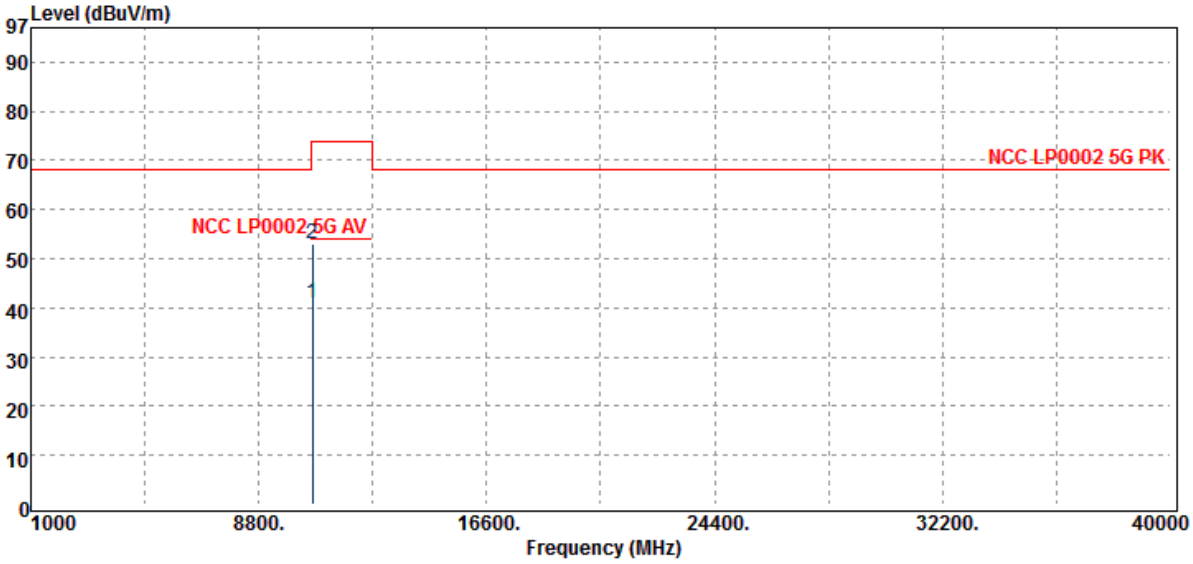
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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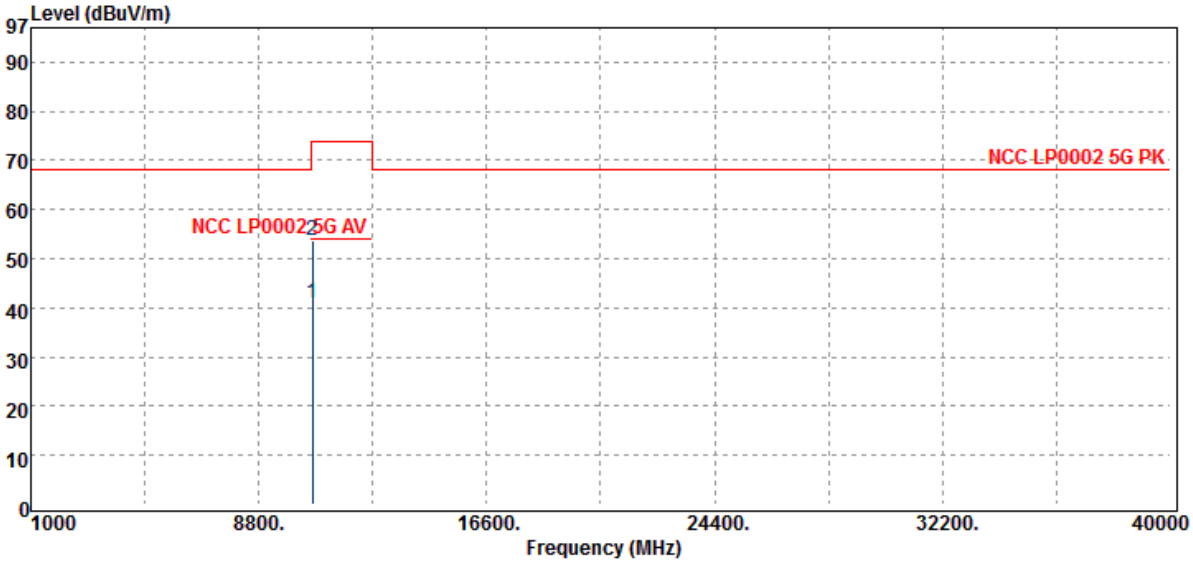
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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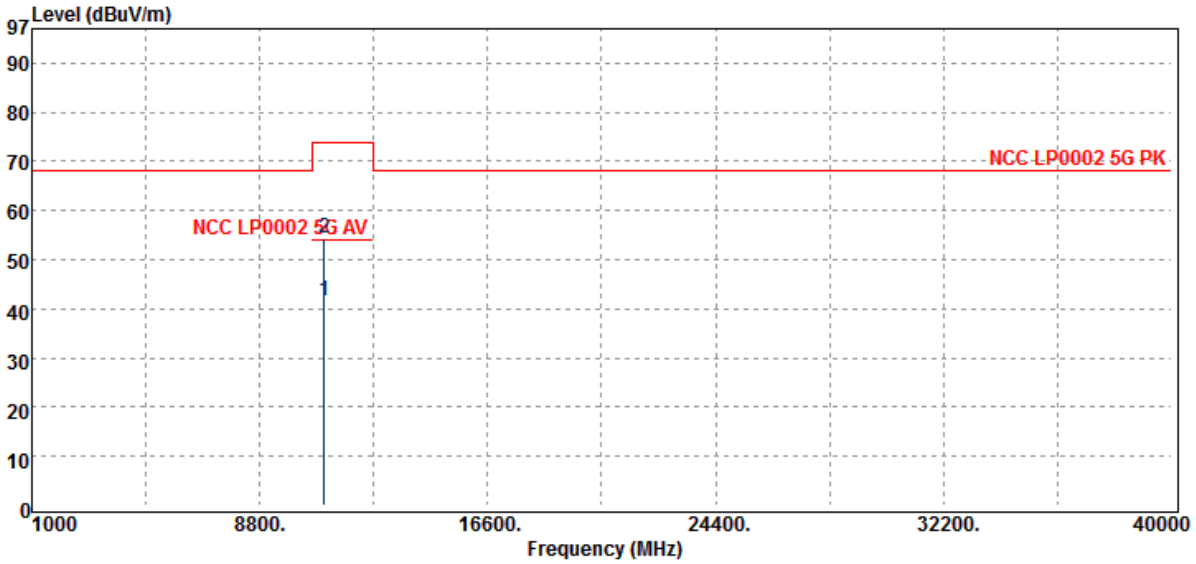
## 802.11a / 6Mbps 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | 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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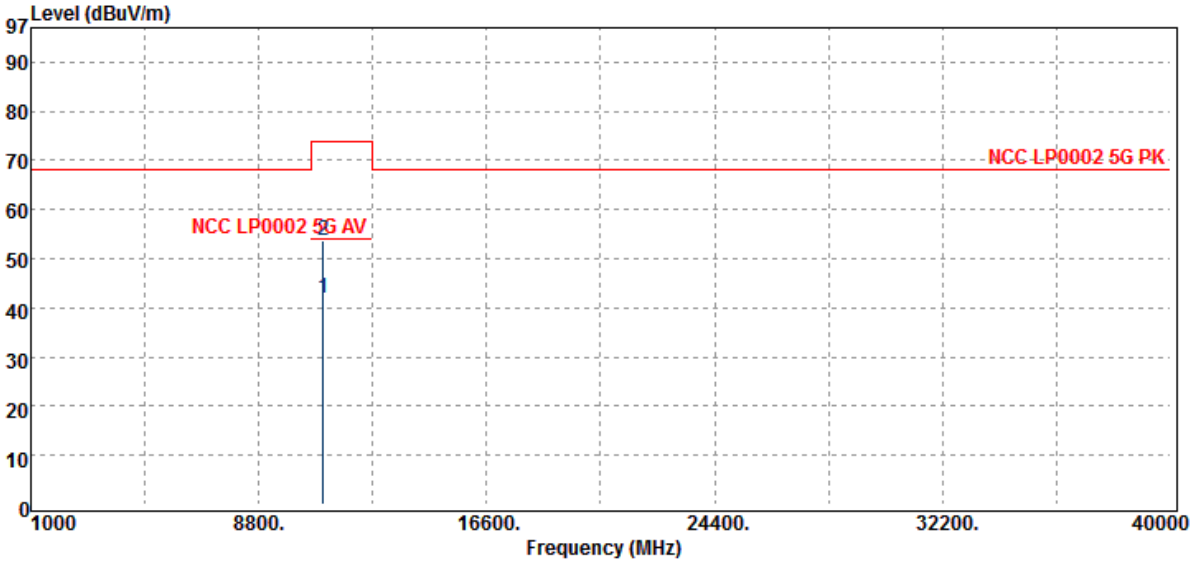
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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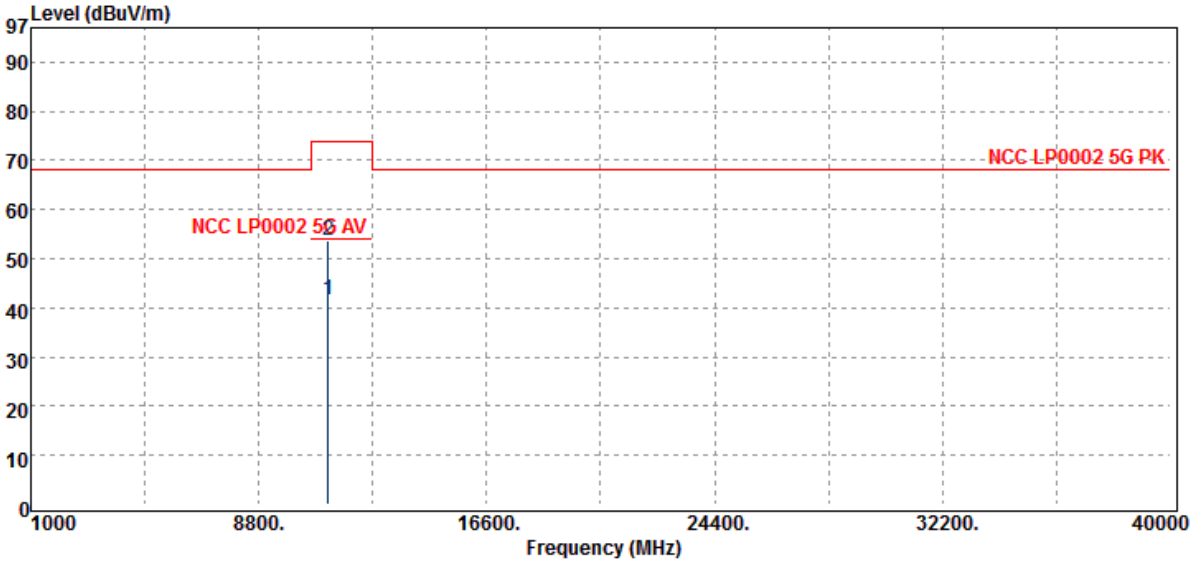
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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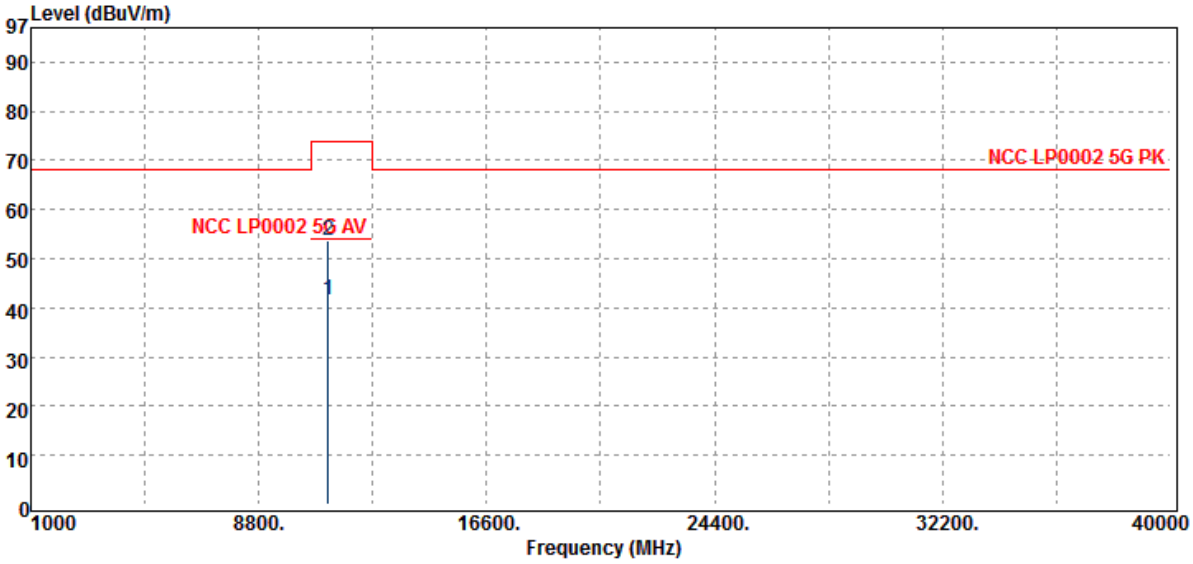
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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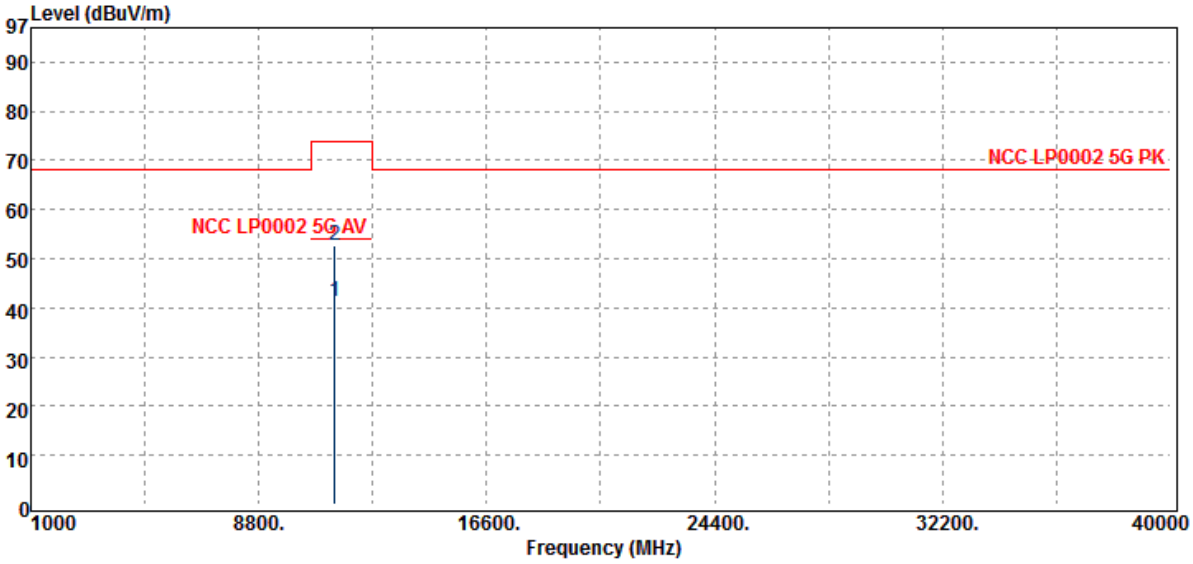
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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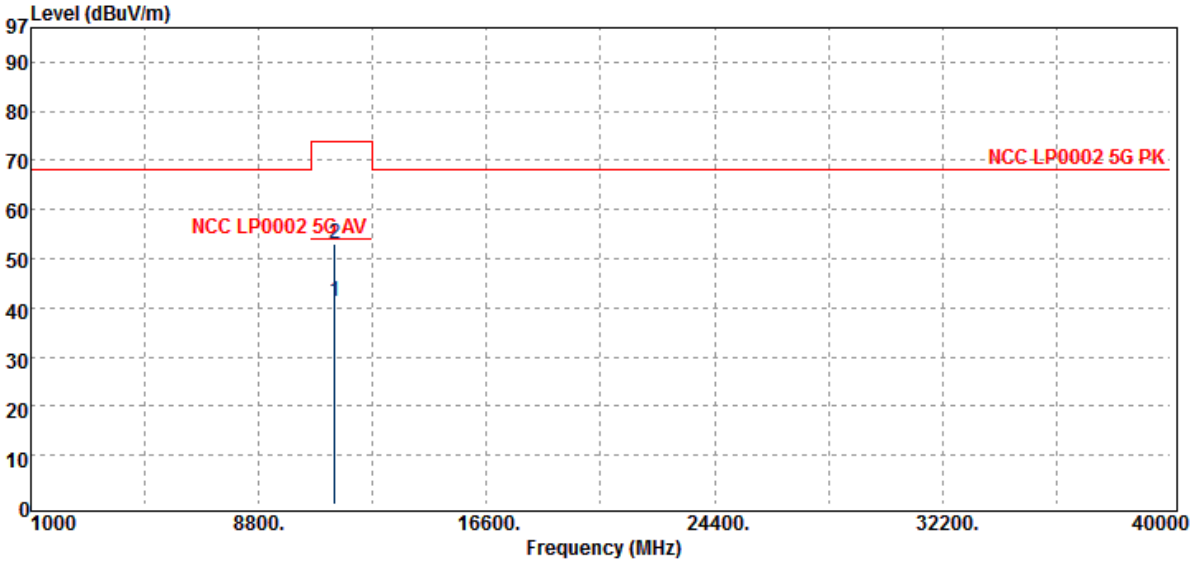
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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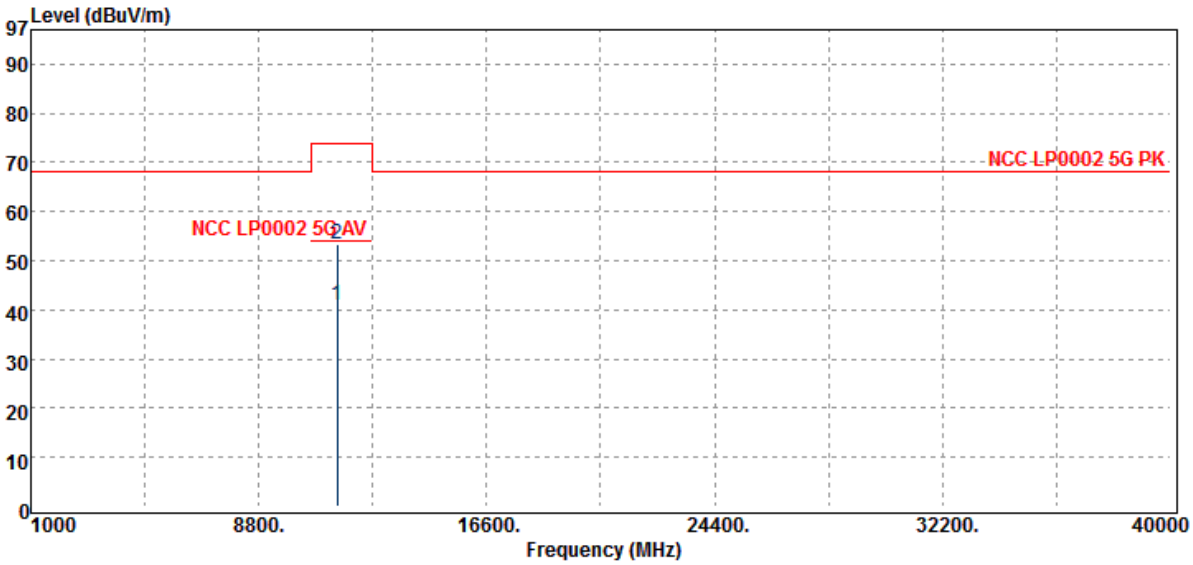
## 802.11a / 6Mbps 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/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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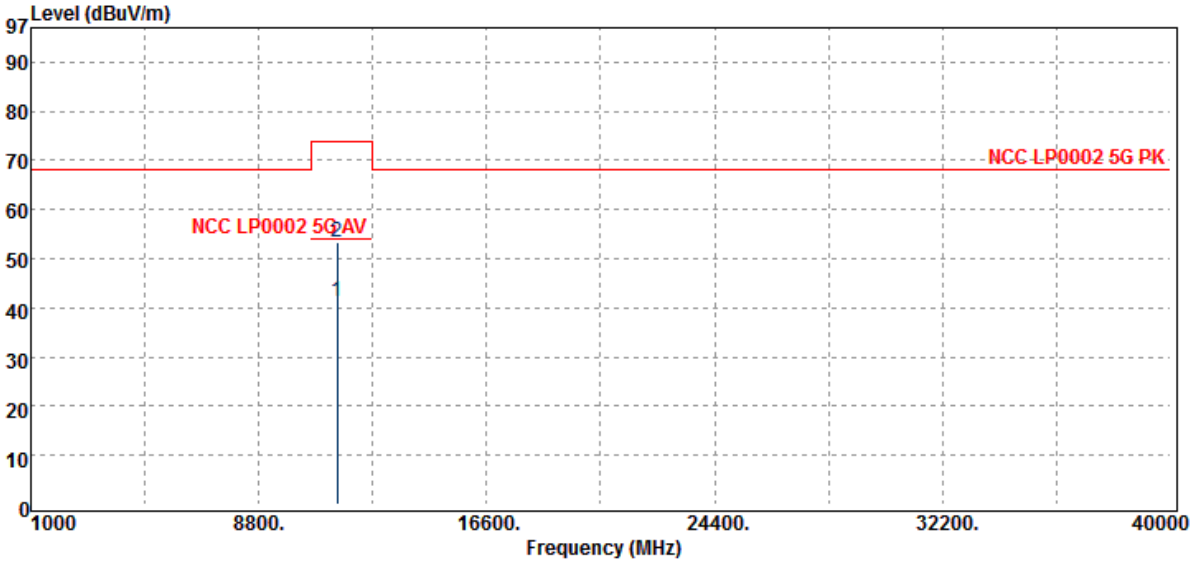
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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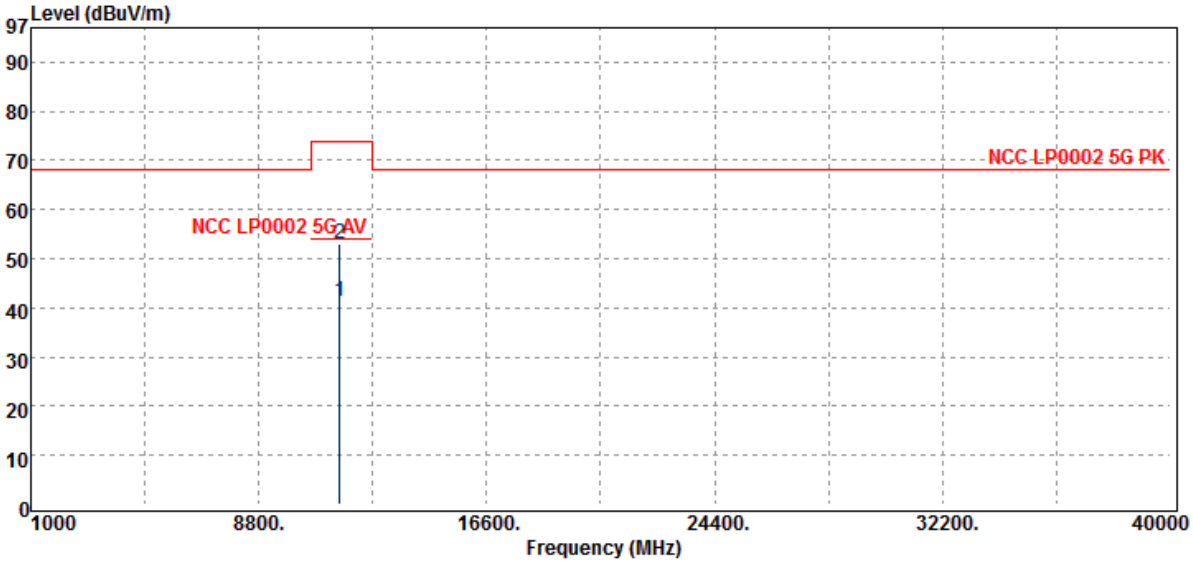
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/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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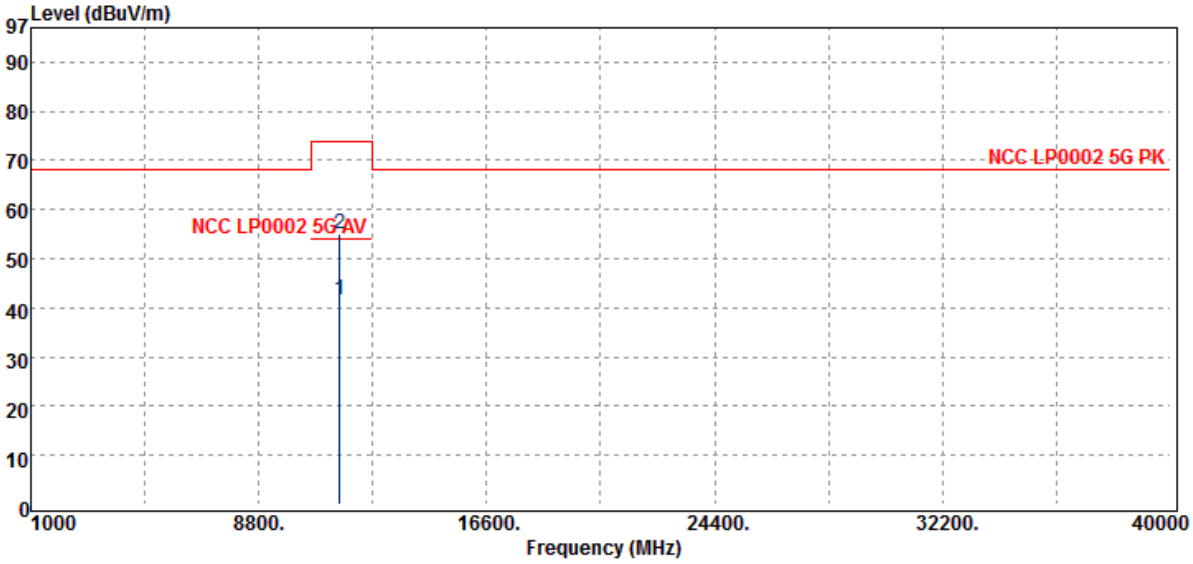
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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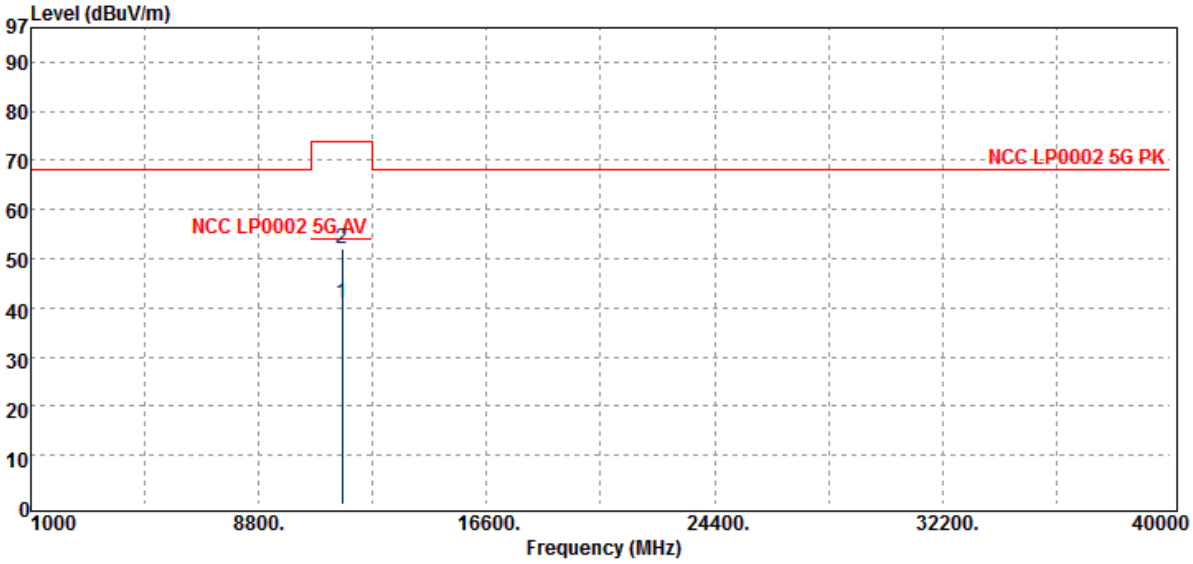
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | 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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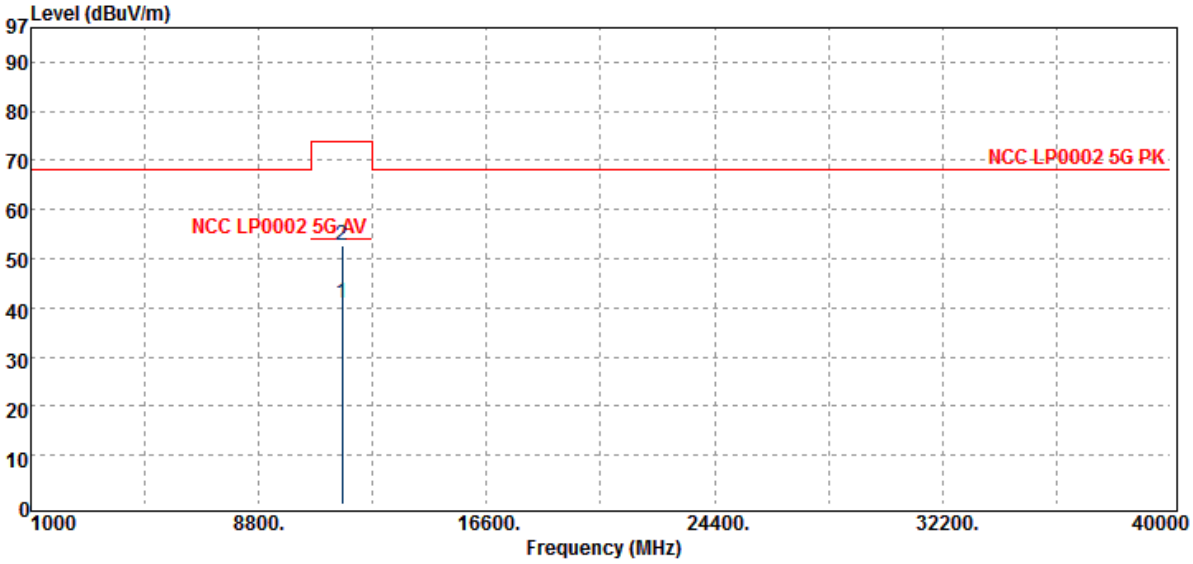
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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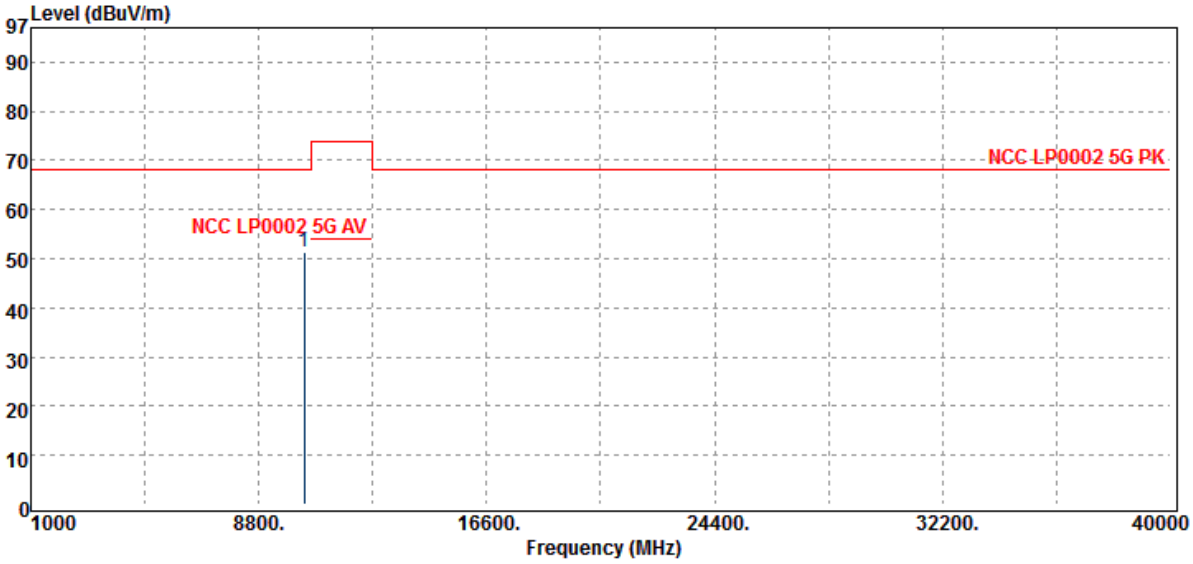
## 802.11n HT20 / MCS8 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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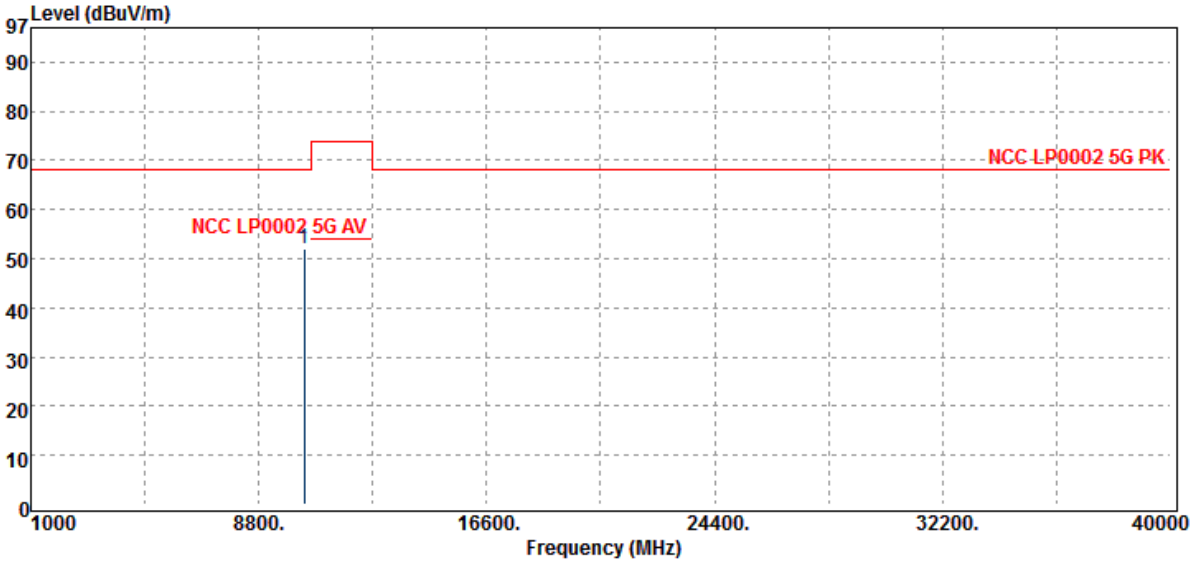
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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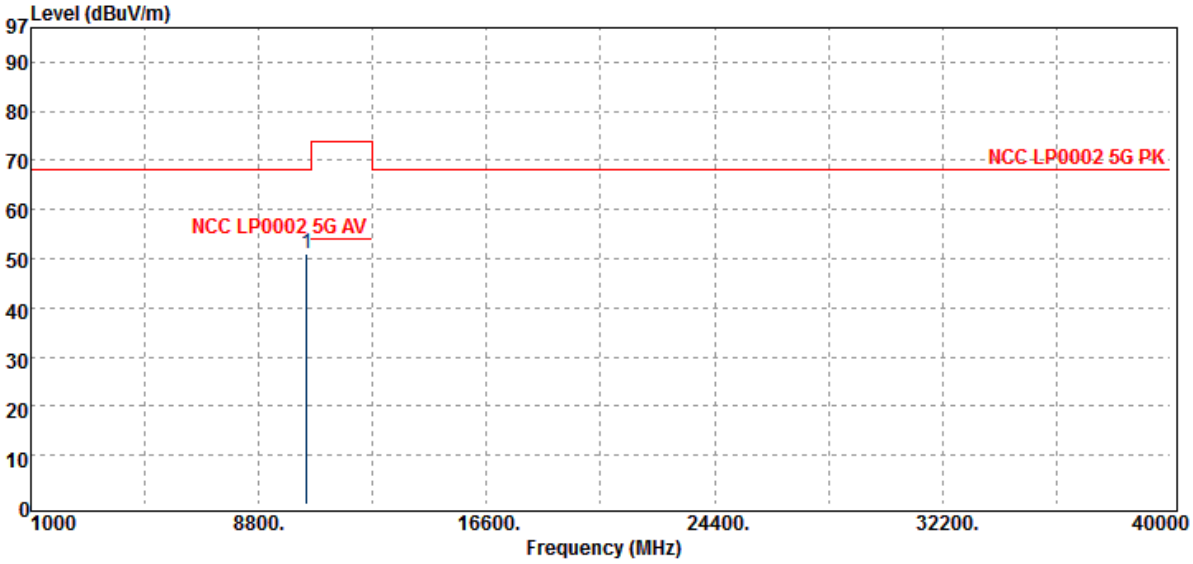
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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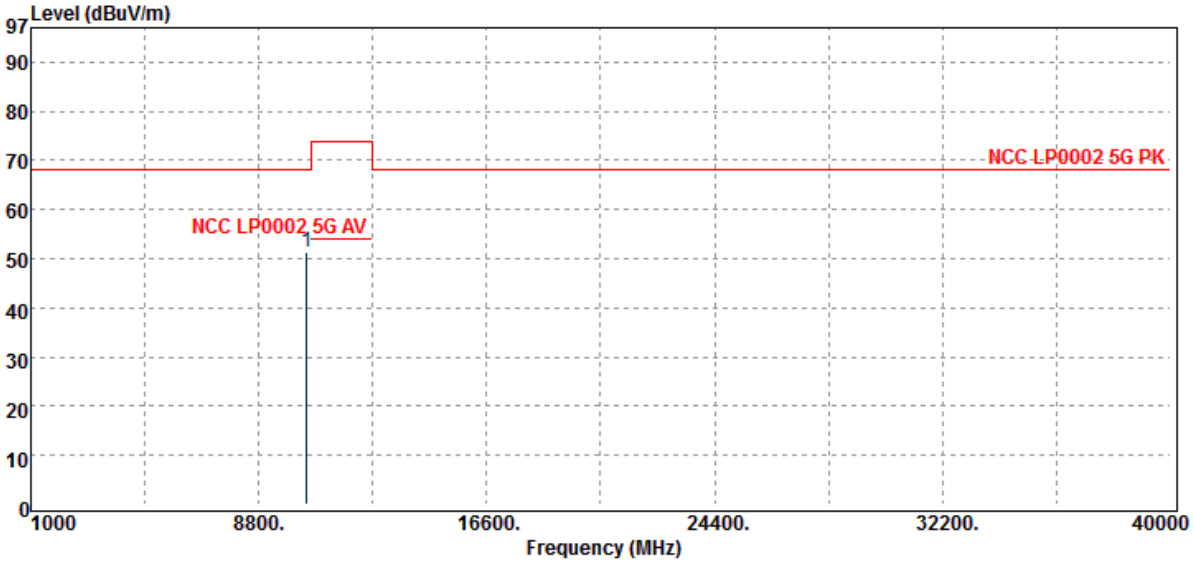
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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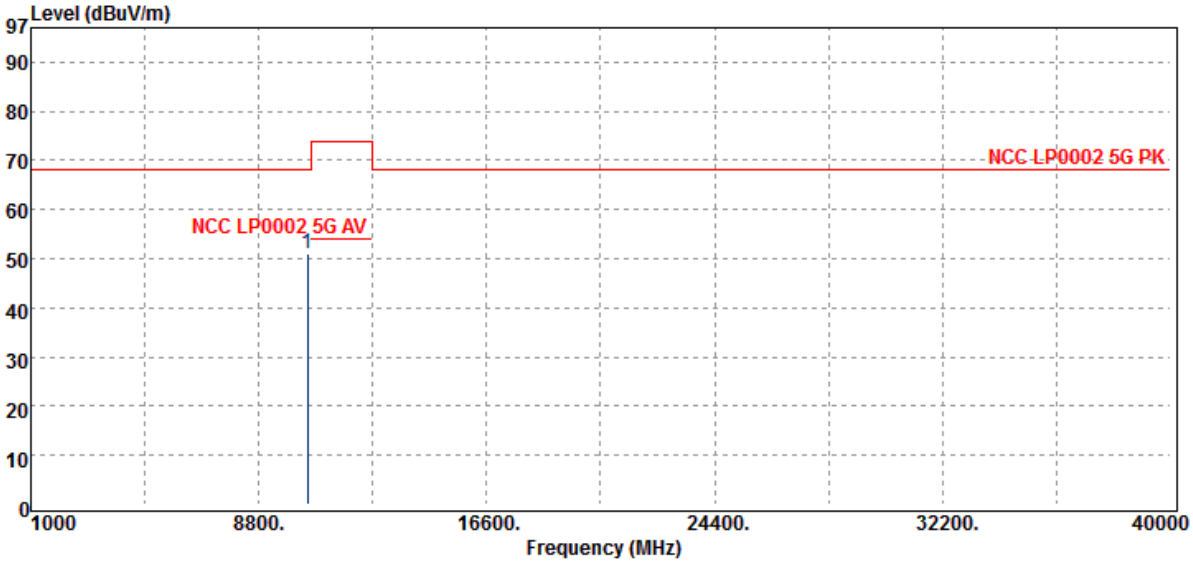
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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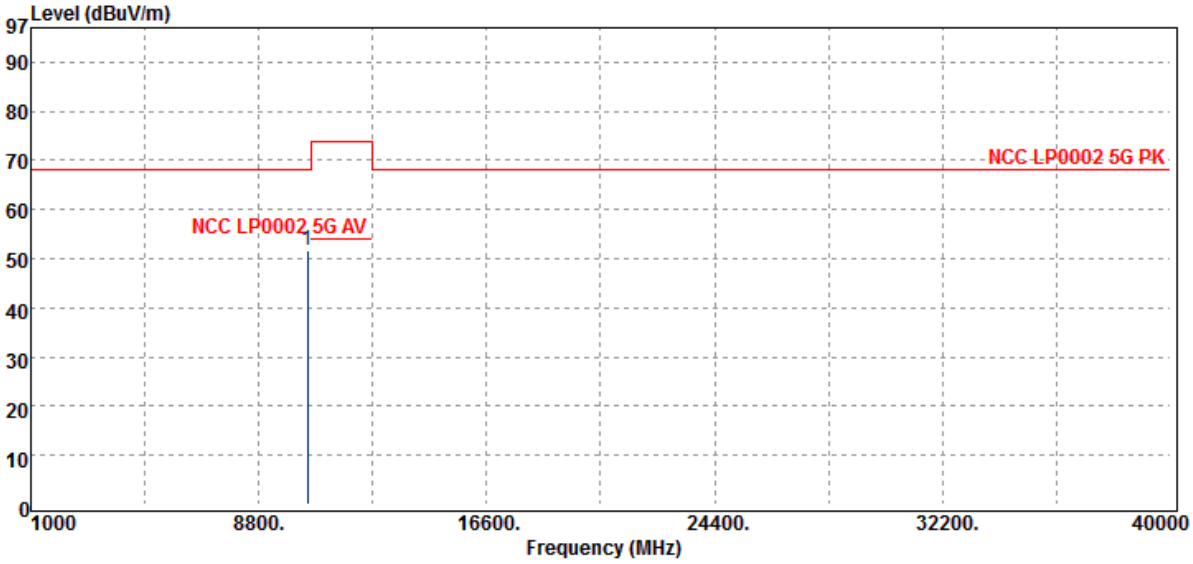
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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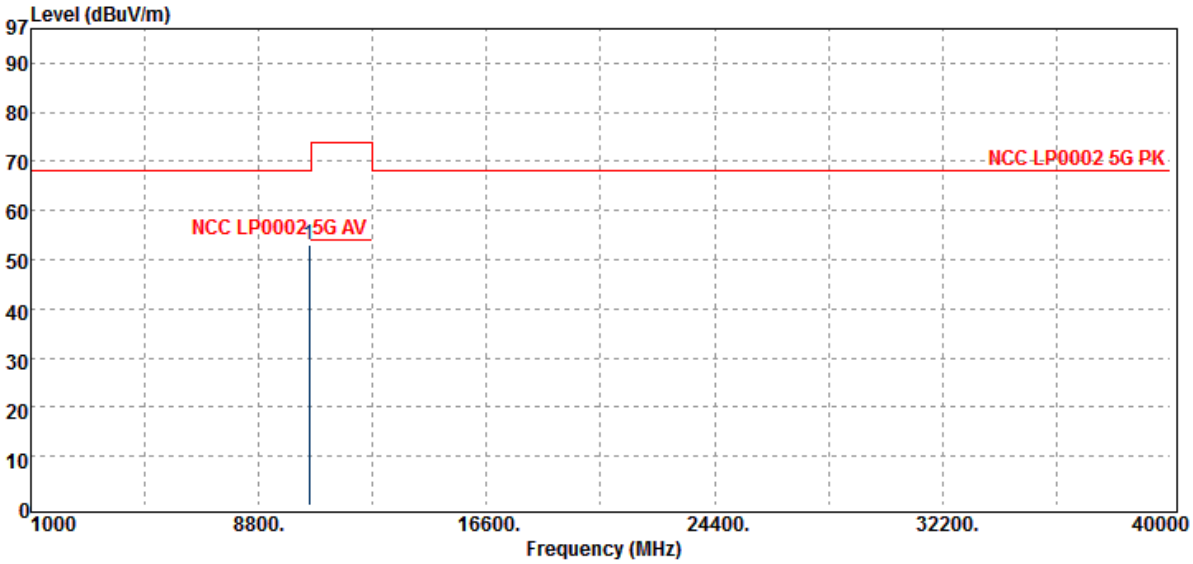
## 802.11n HT20 / MCS8 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

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

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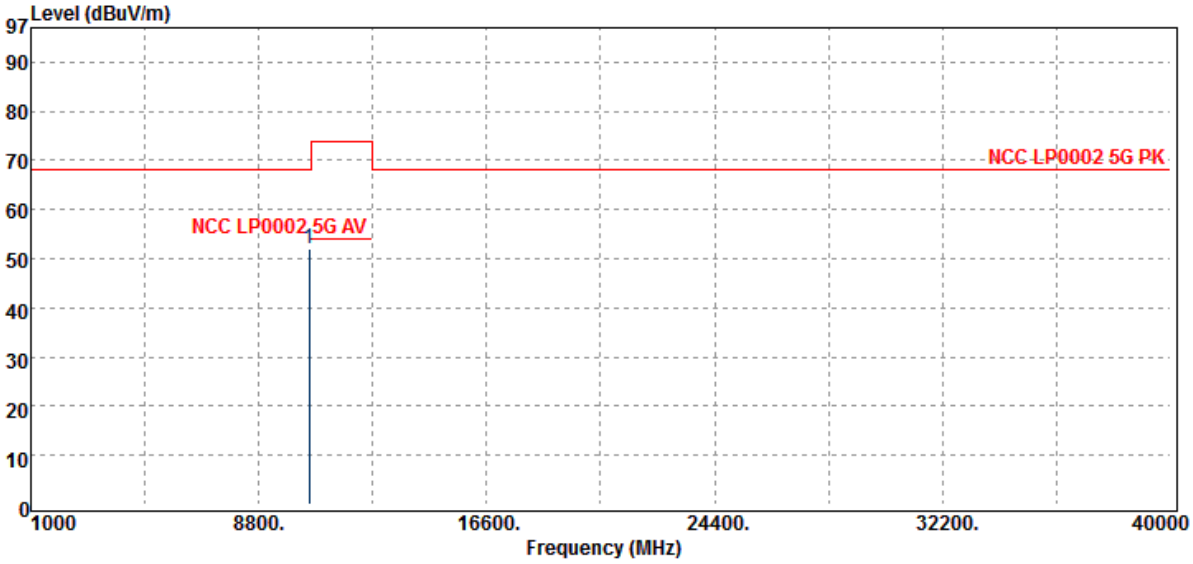
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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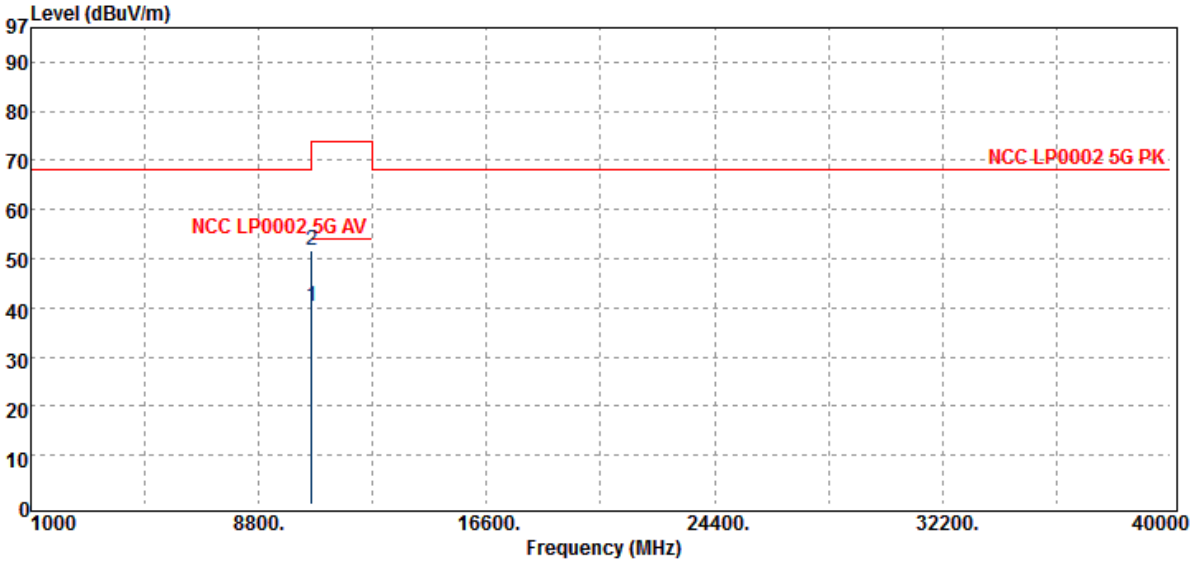
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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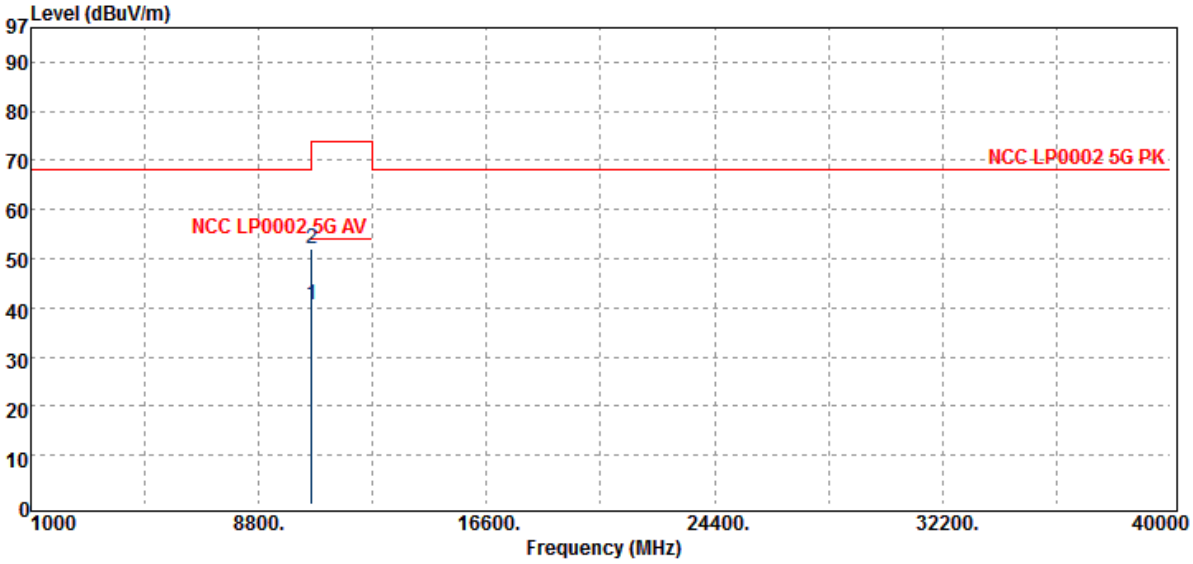
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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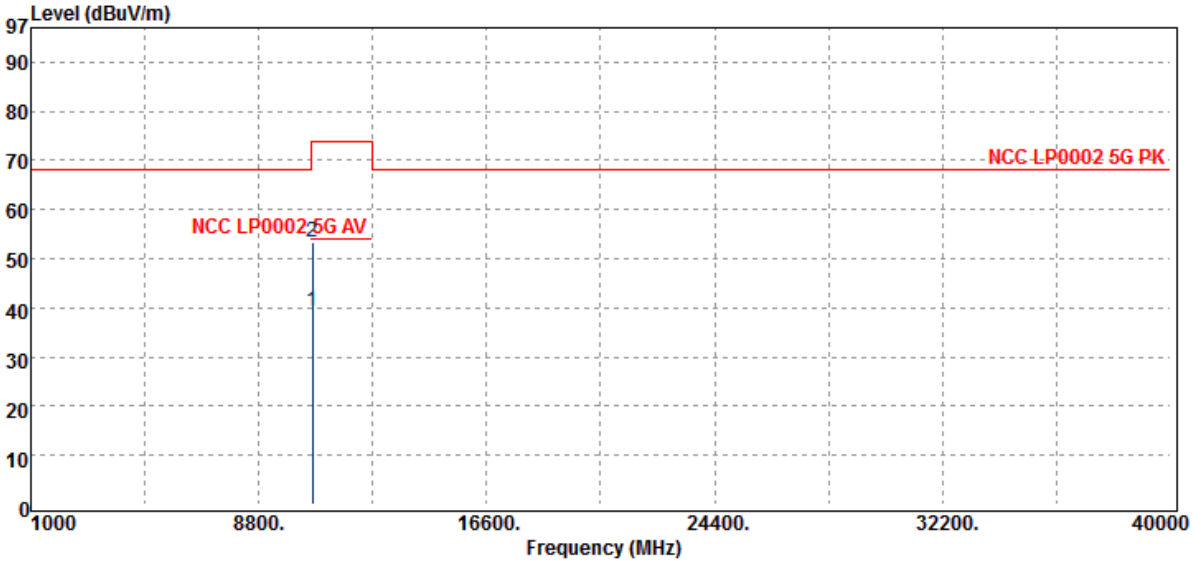
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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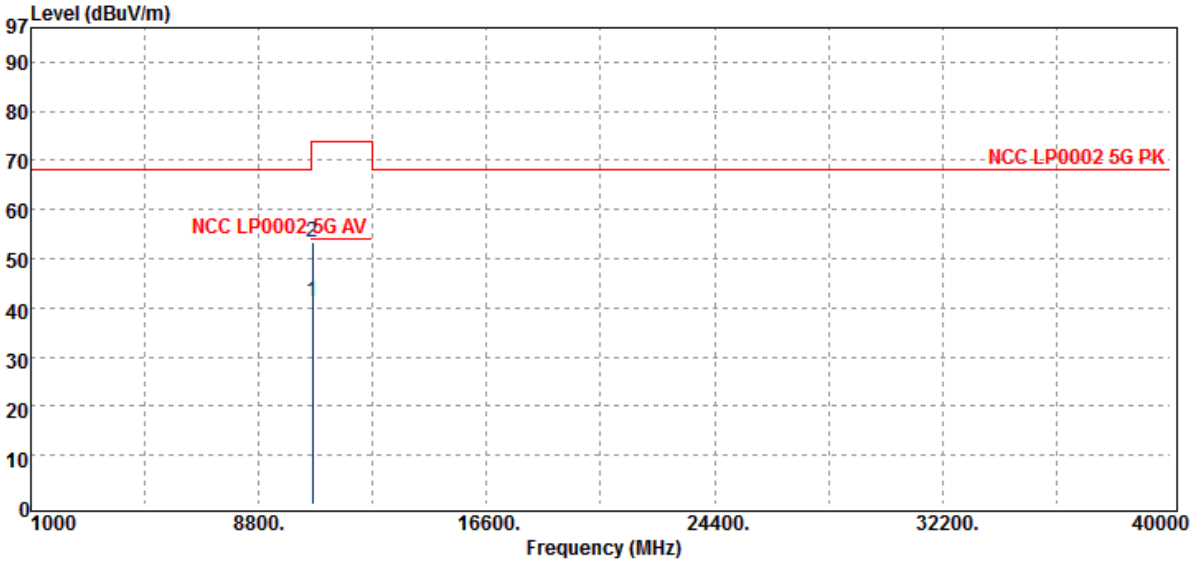
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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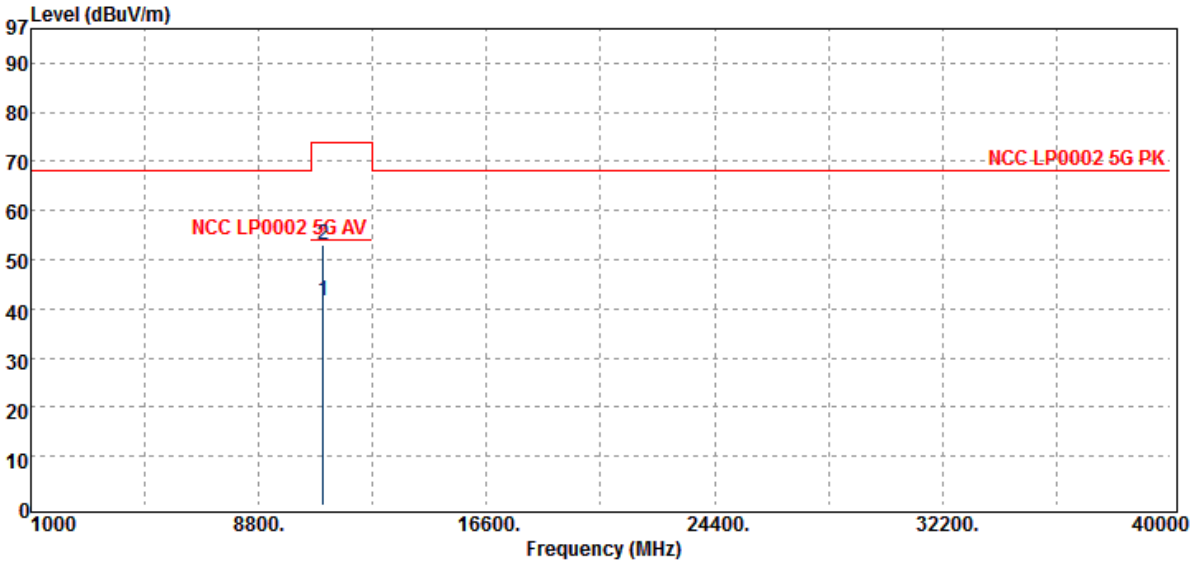
## 802.11n HT20 / MCS8 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/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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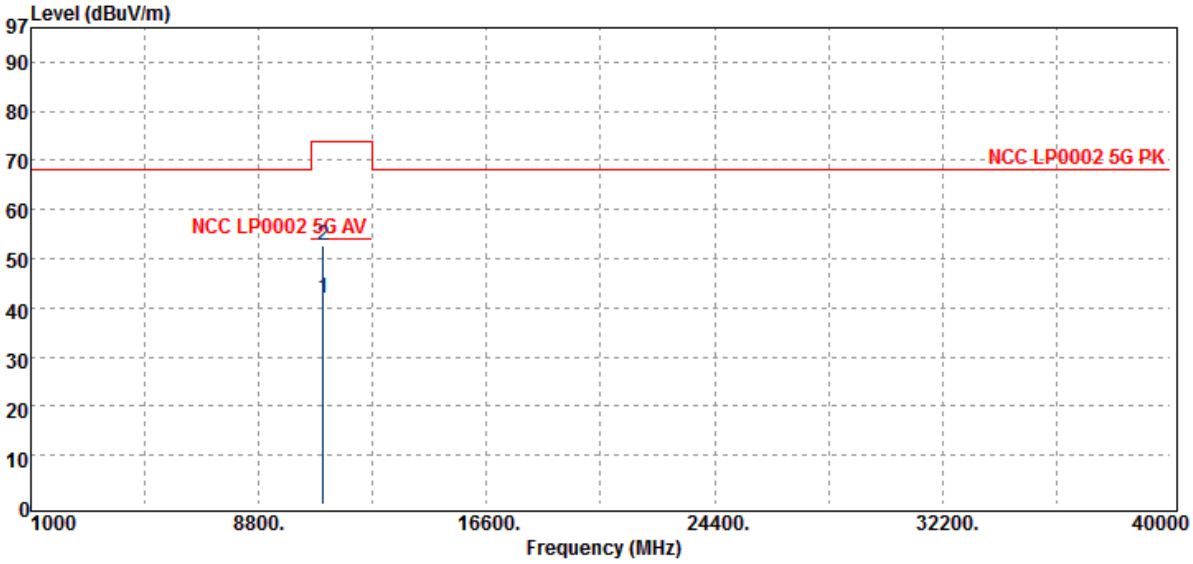
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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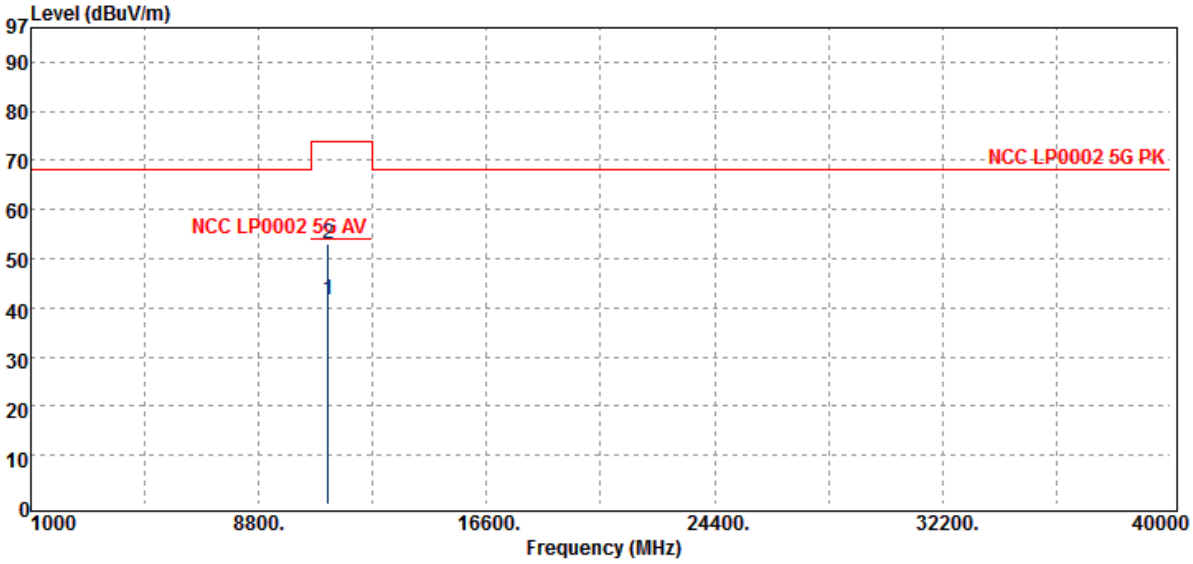
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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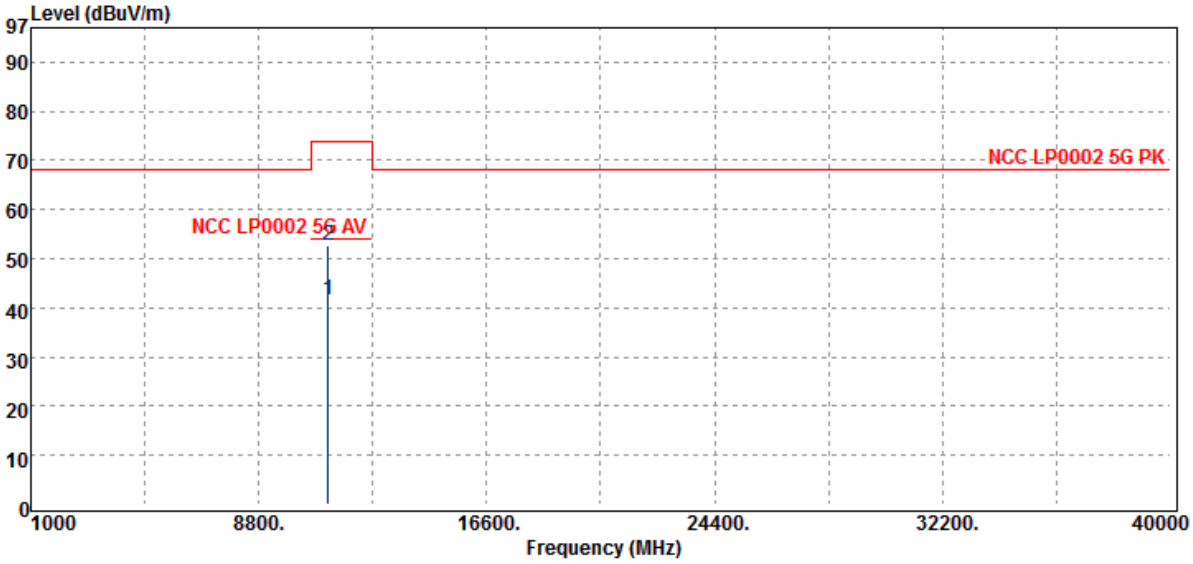
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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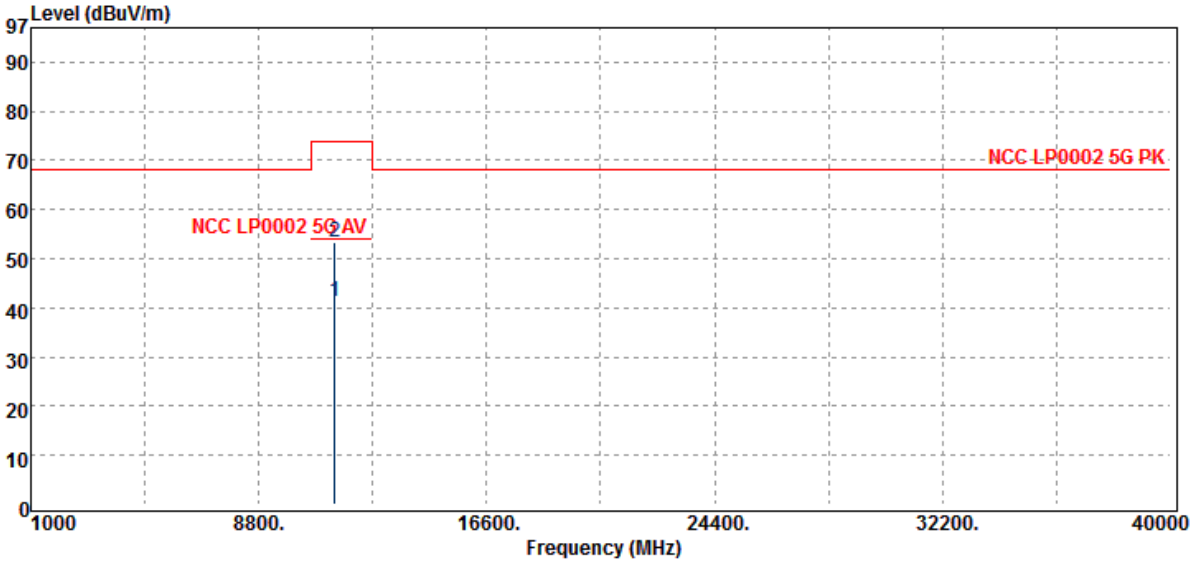
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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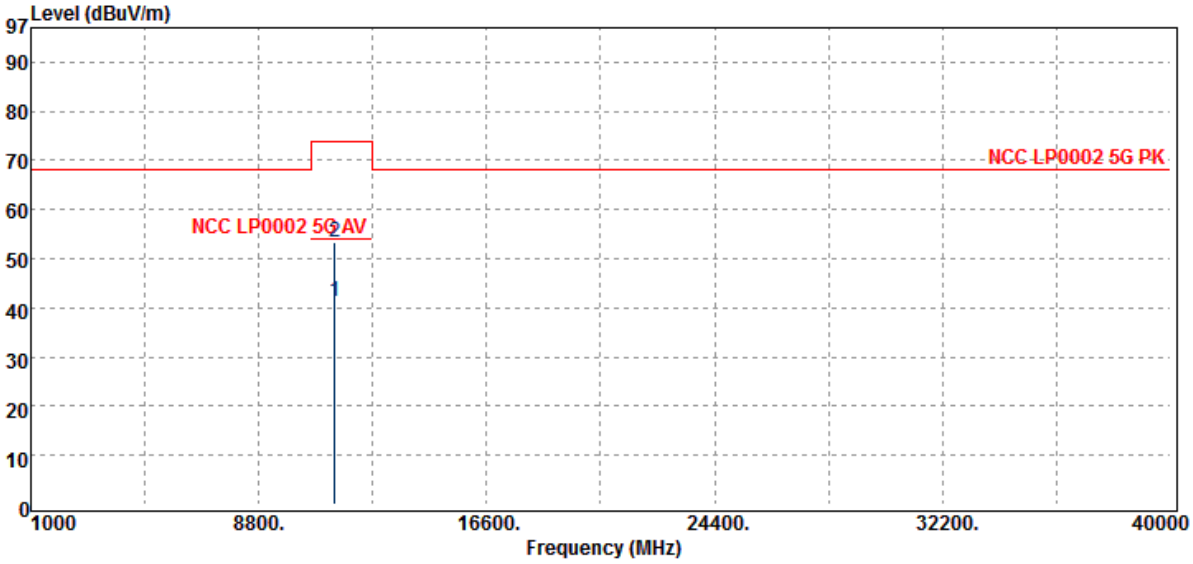
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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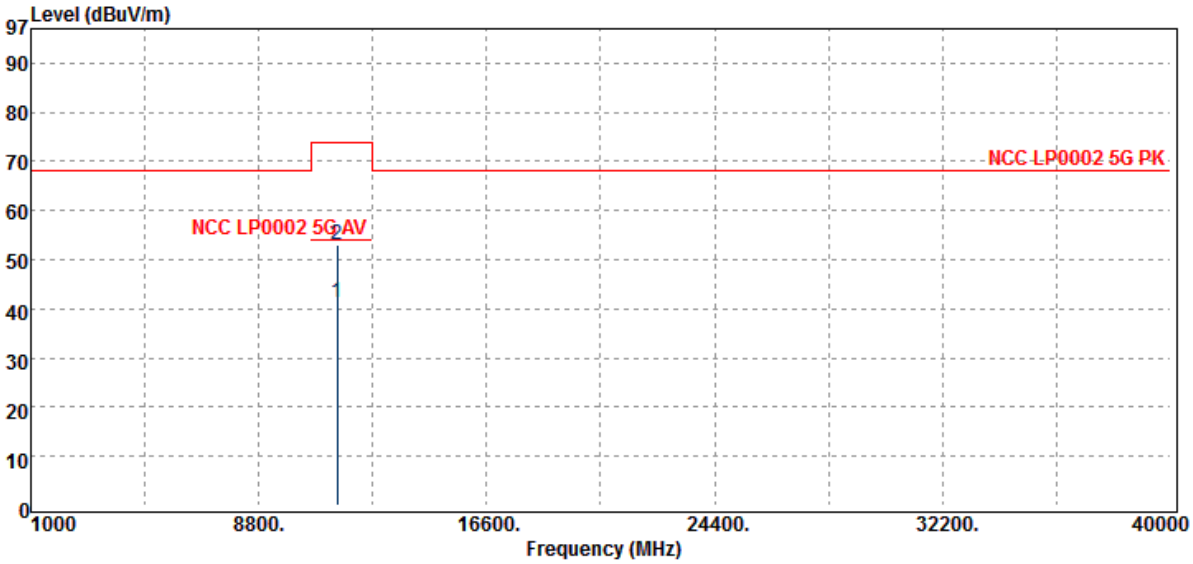
## 80.11n HT20 / MCS8 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B4 | 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | 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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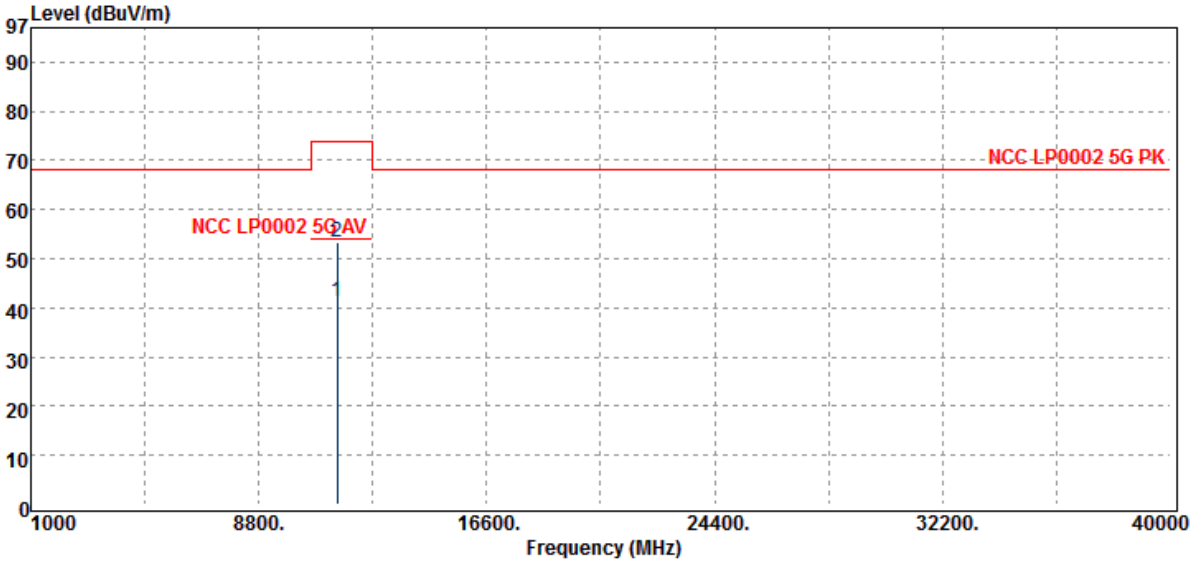
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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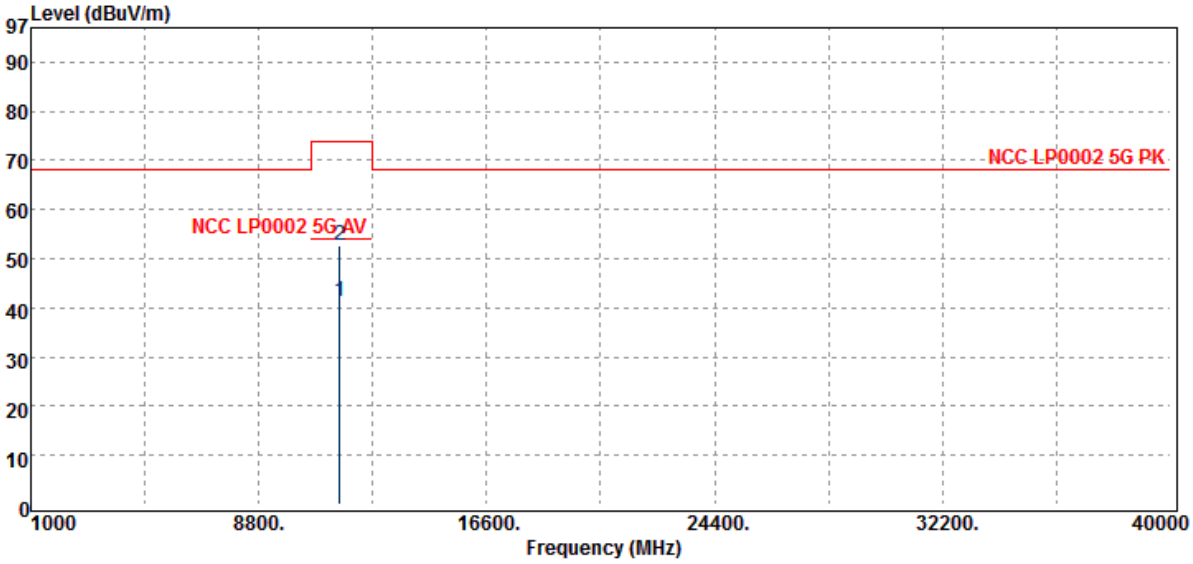
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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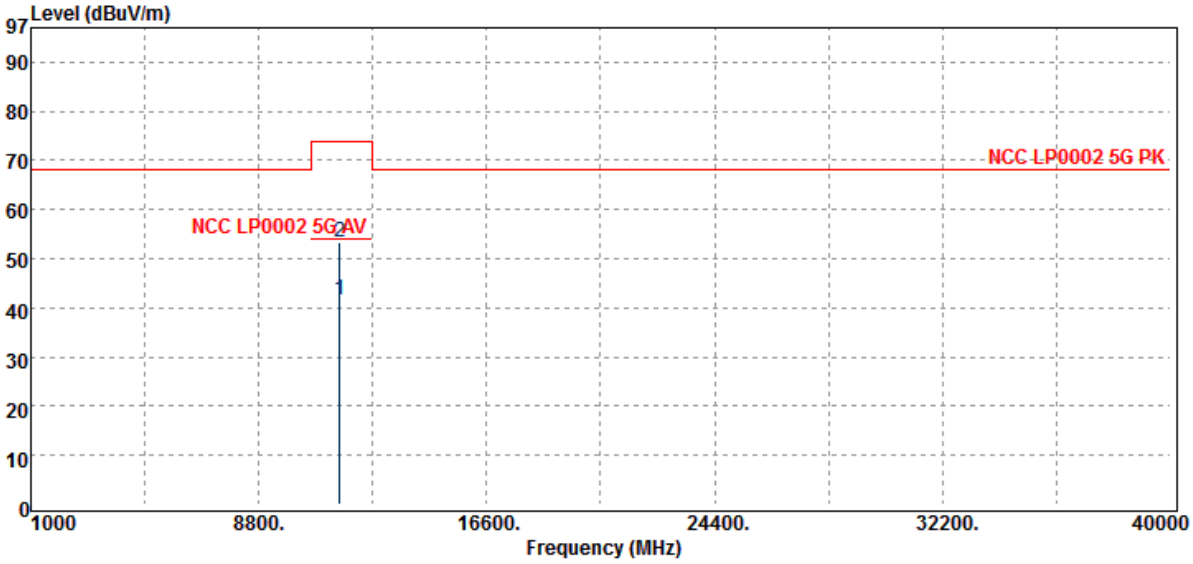
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/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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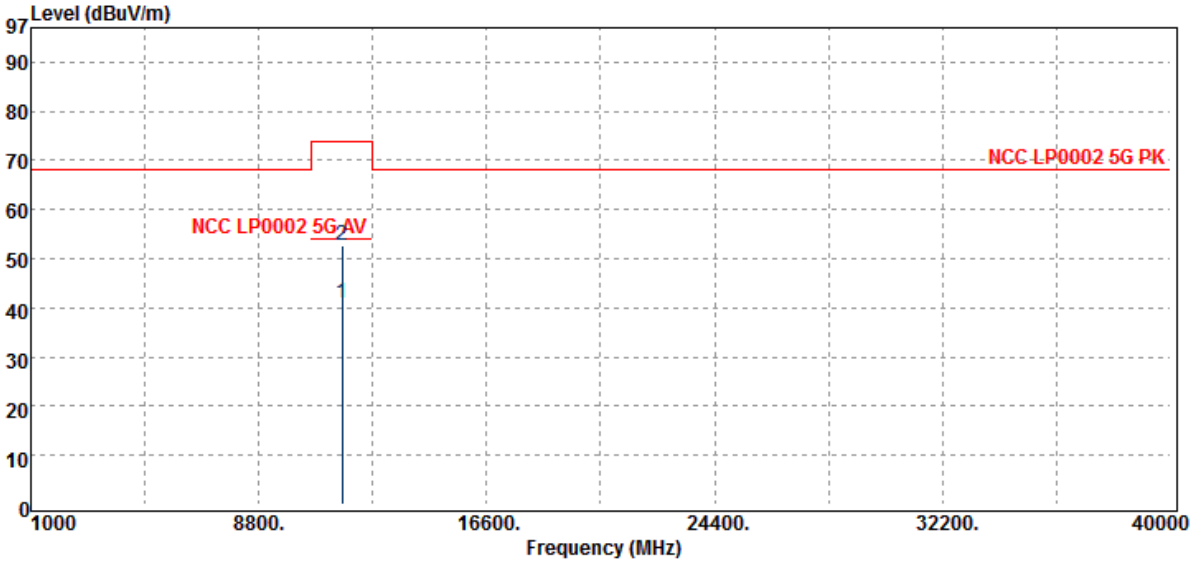
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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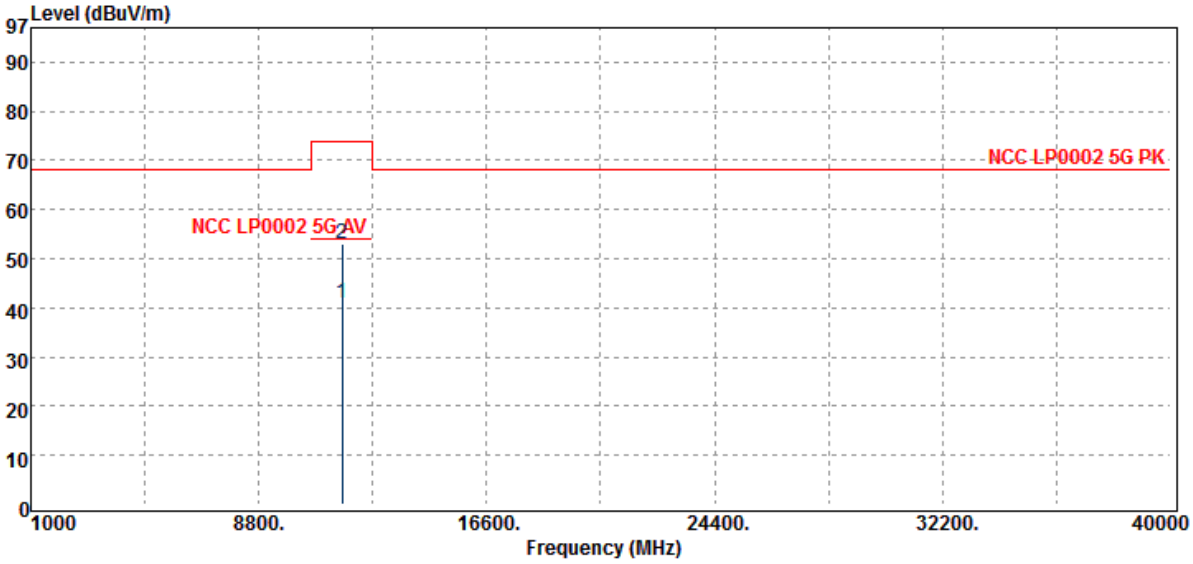
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | 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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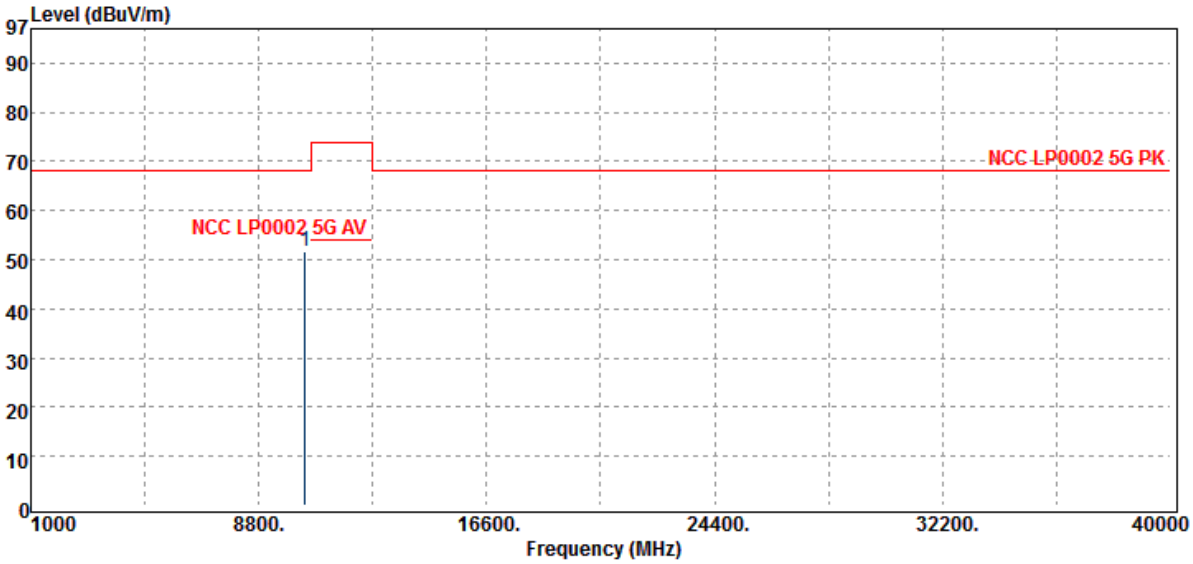
## 802.11n HT40 / MCS8 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

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

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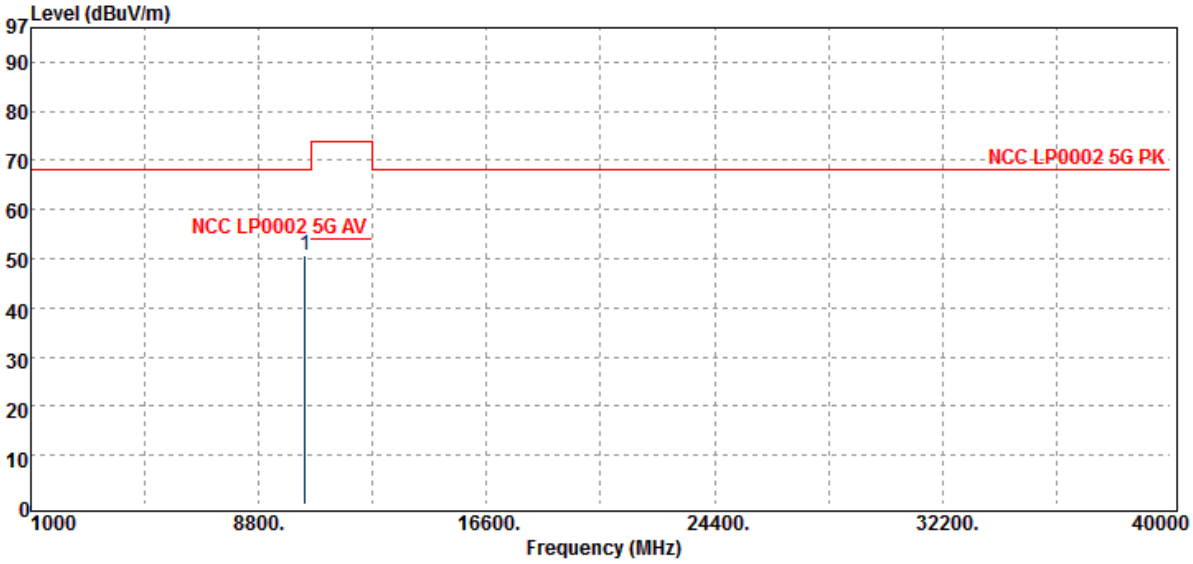
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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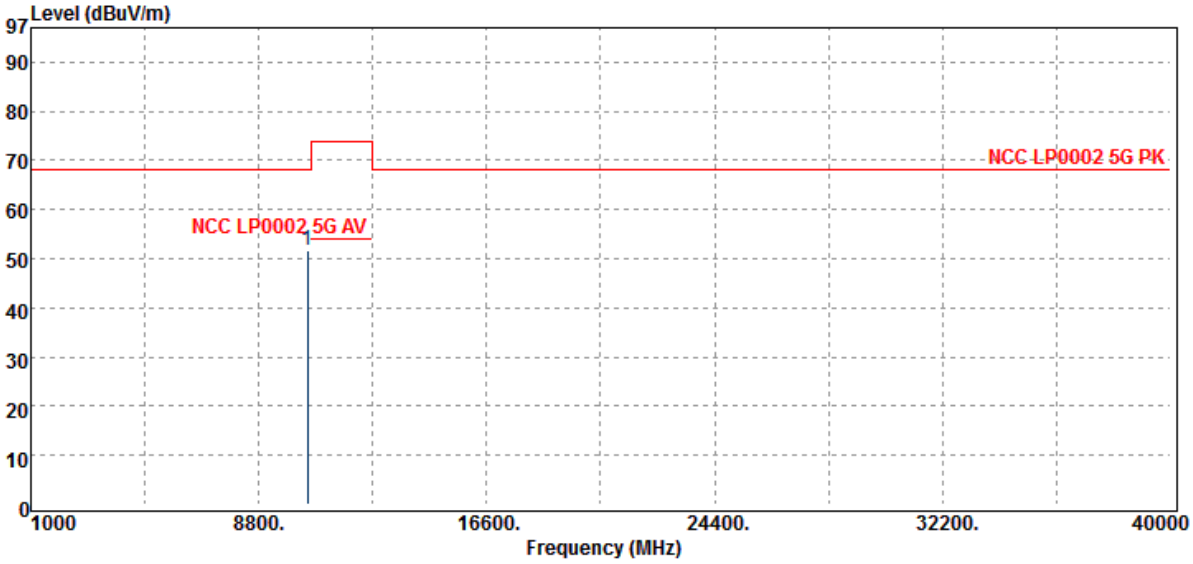
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5230 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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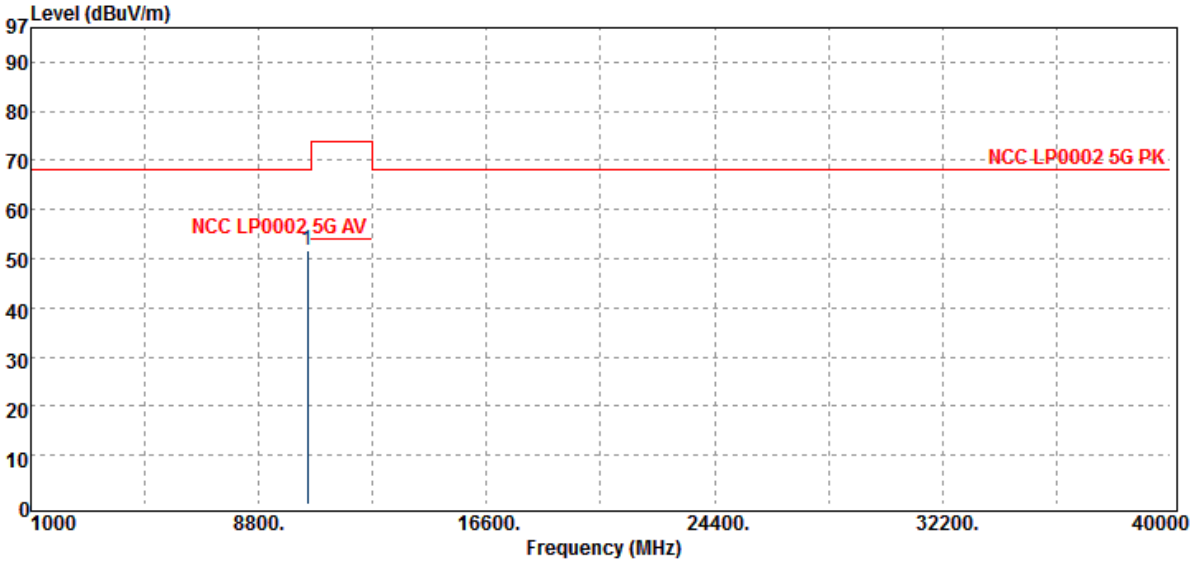
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5230 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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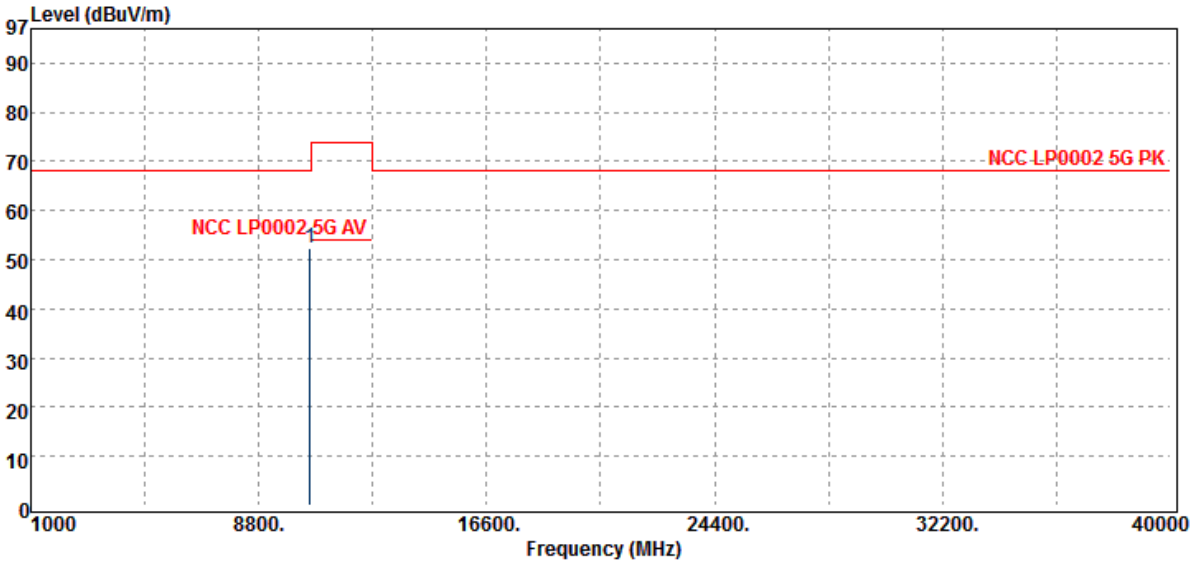
## 802.11n HT40 / MCS8 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

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

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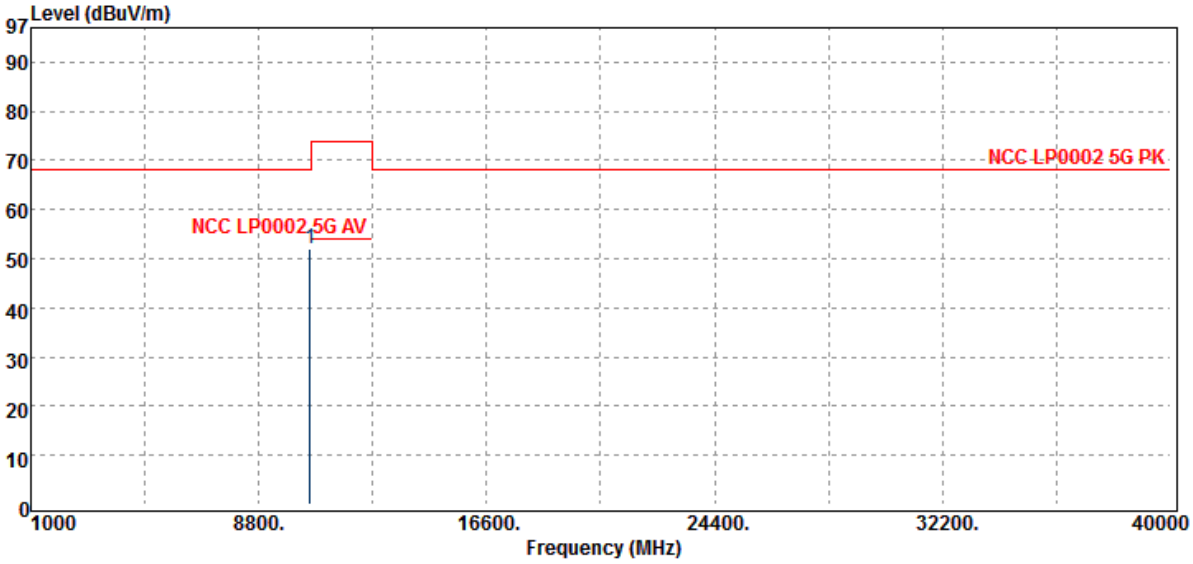
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5270 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




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

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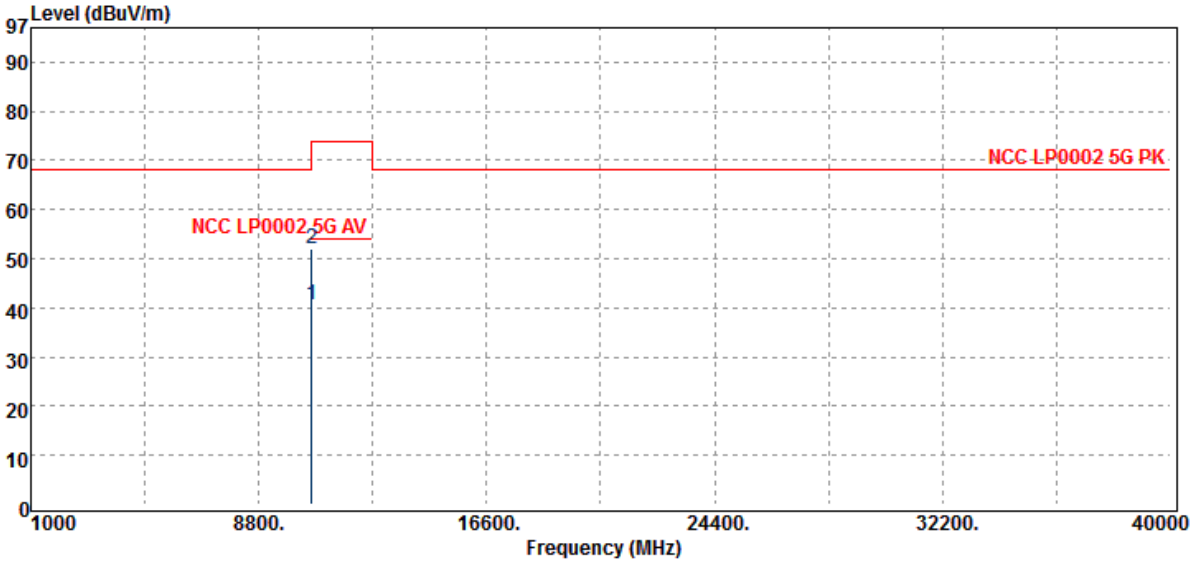
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5310 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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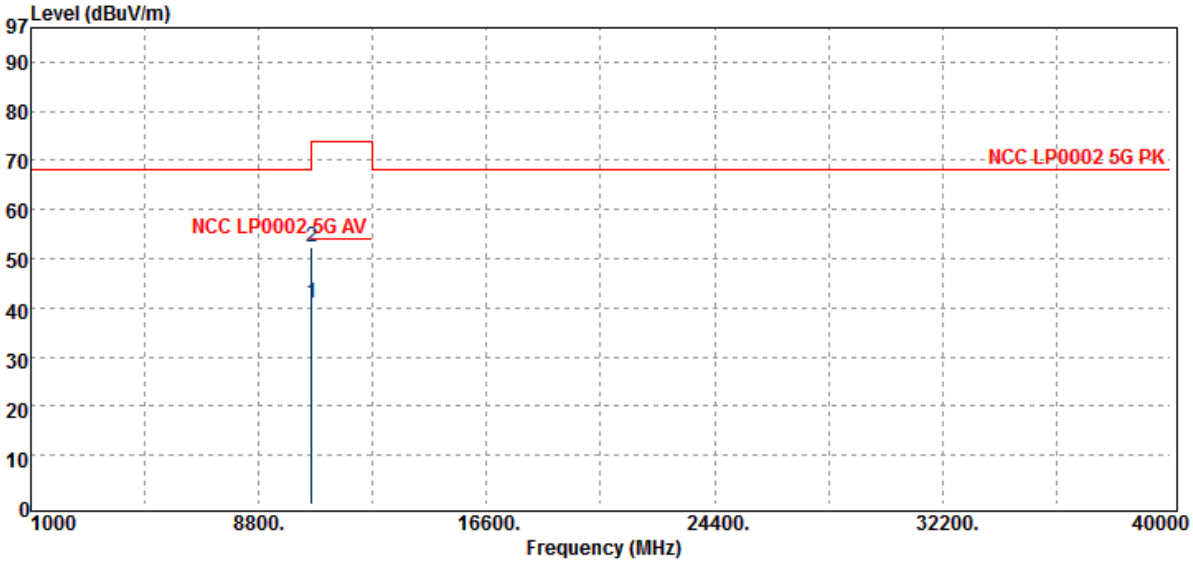
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5310 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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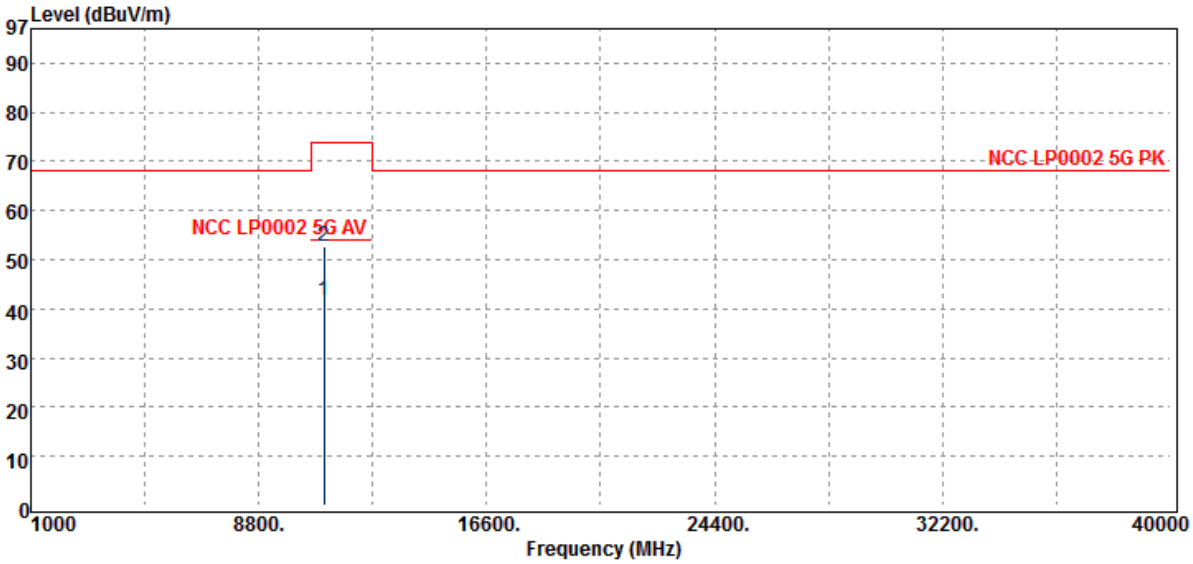
## 802.11n HT40 / MCS0 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/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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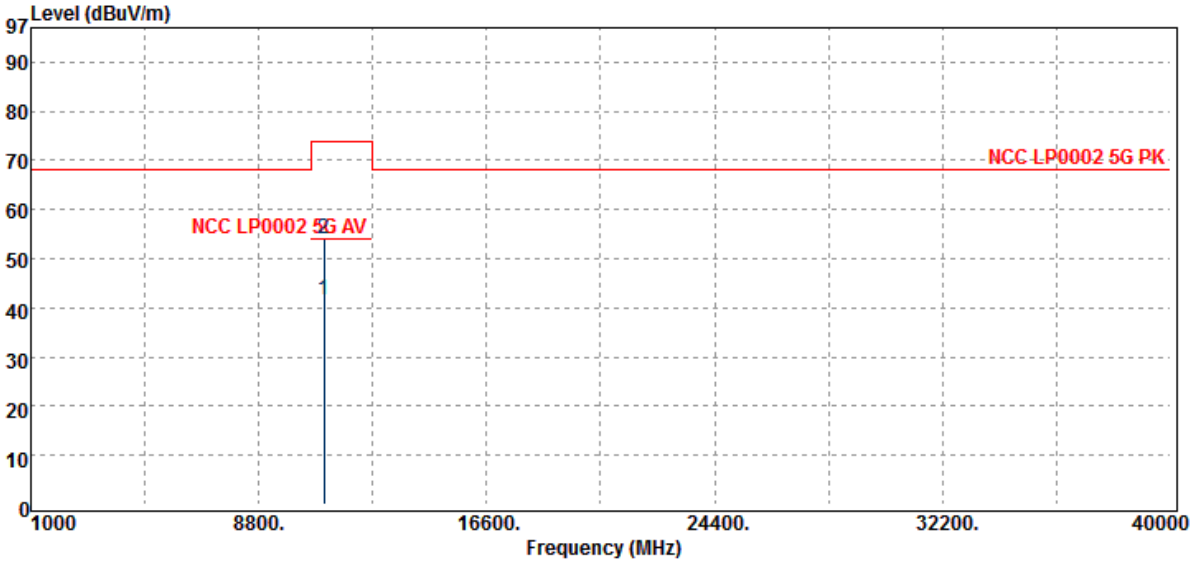
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5510 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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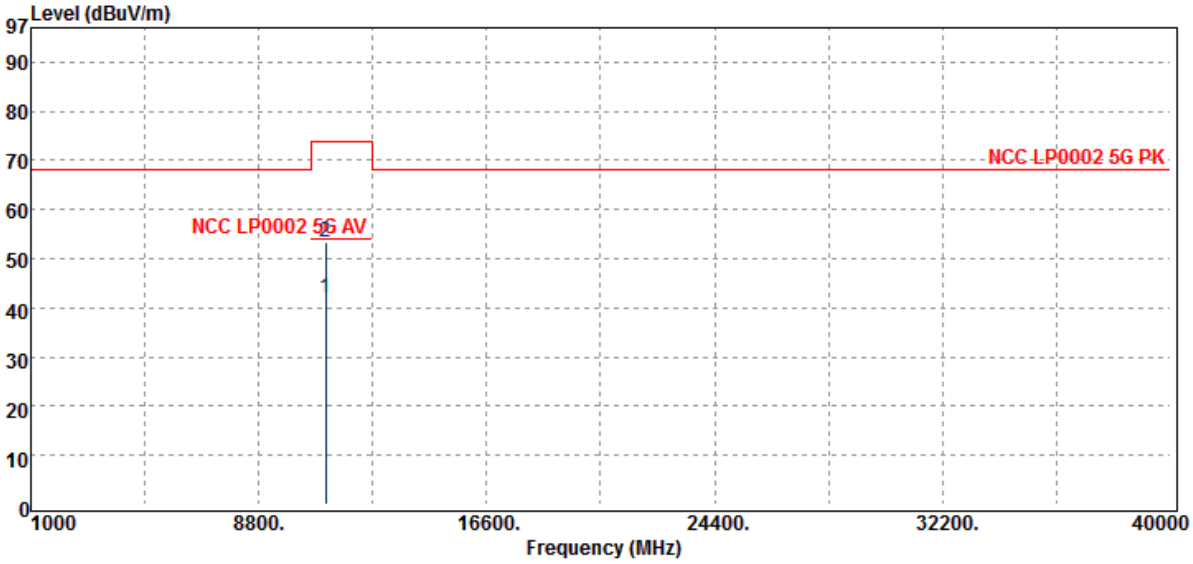
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5550 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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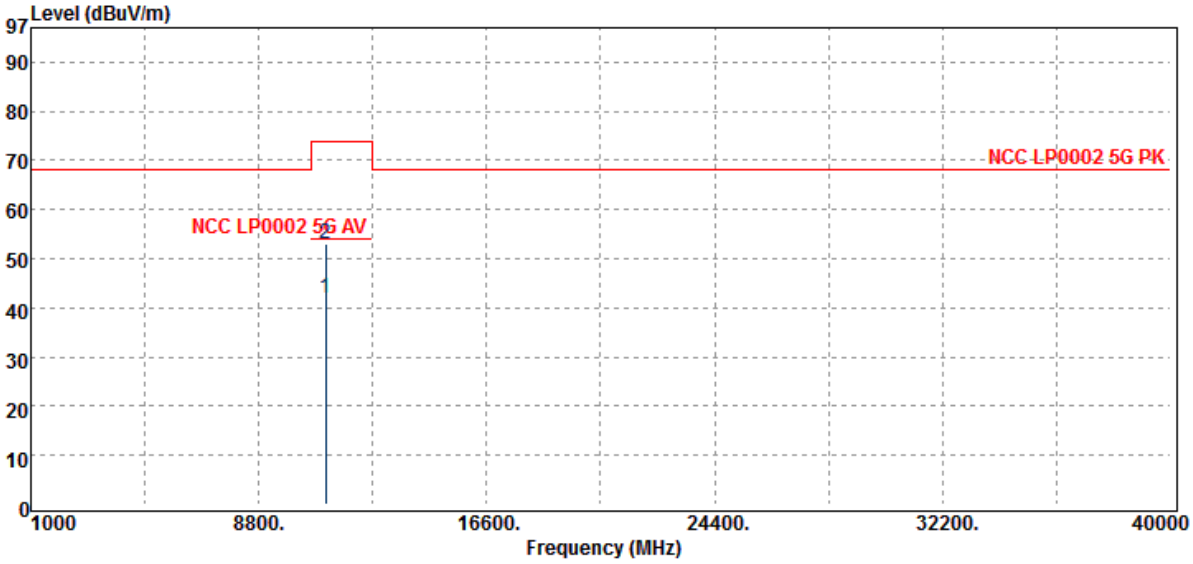
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5550 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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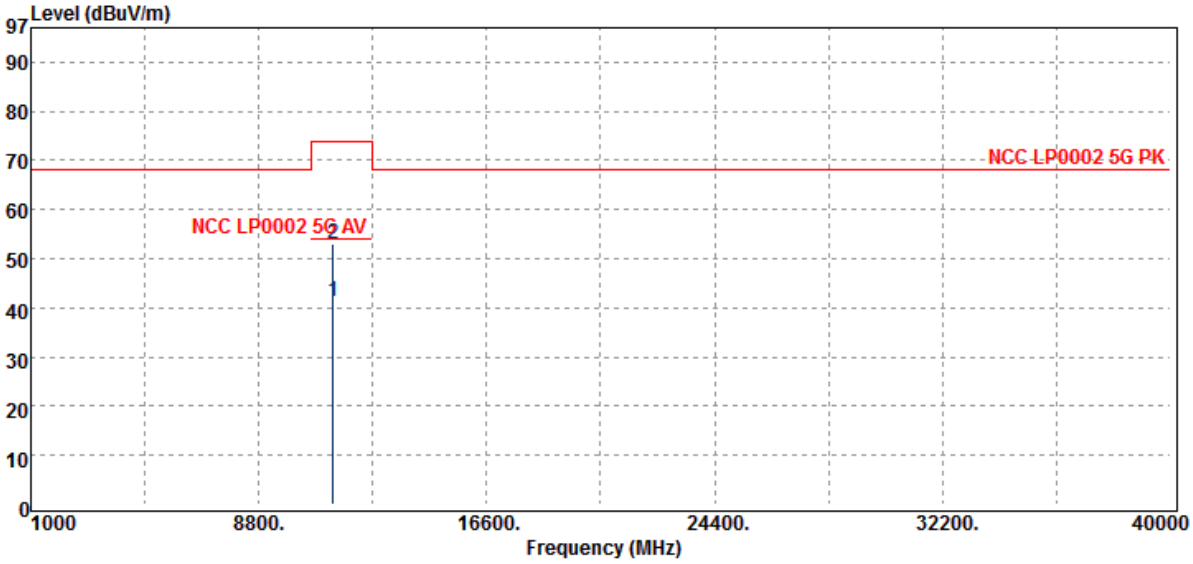
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5670 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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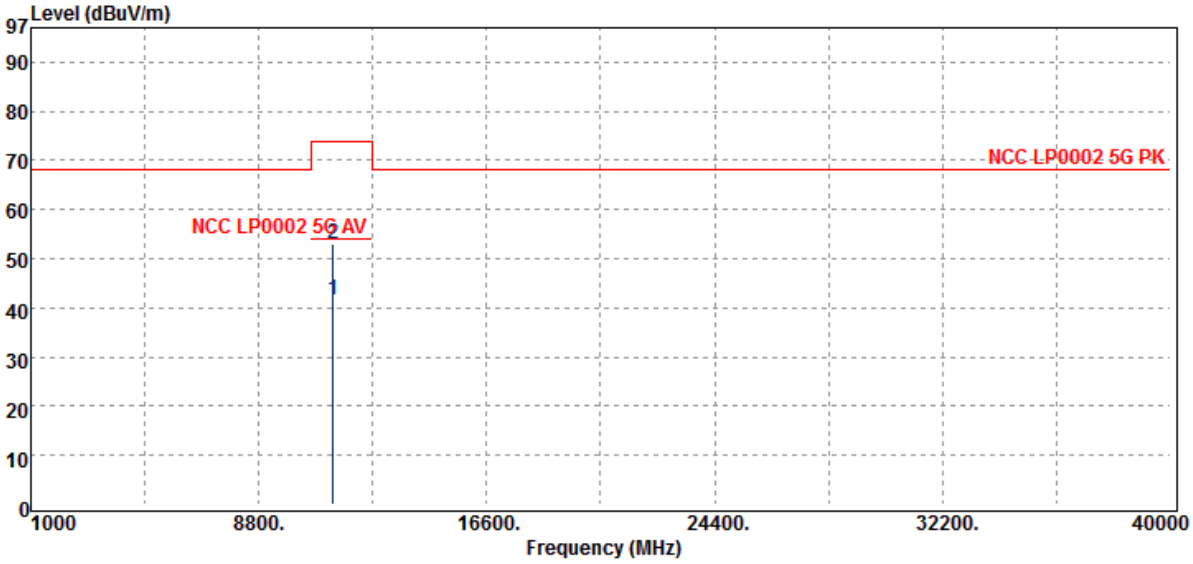
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5670 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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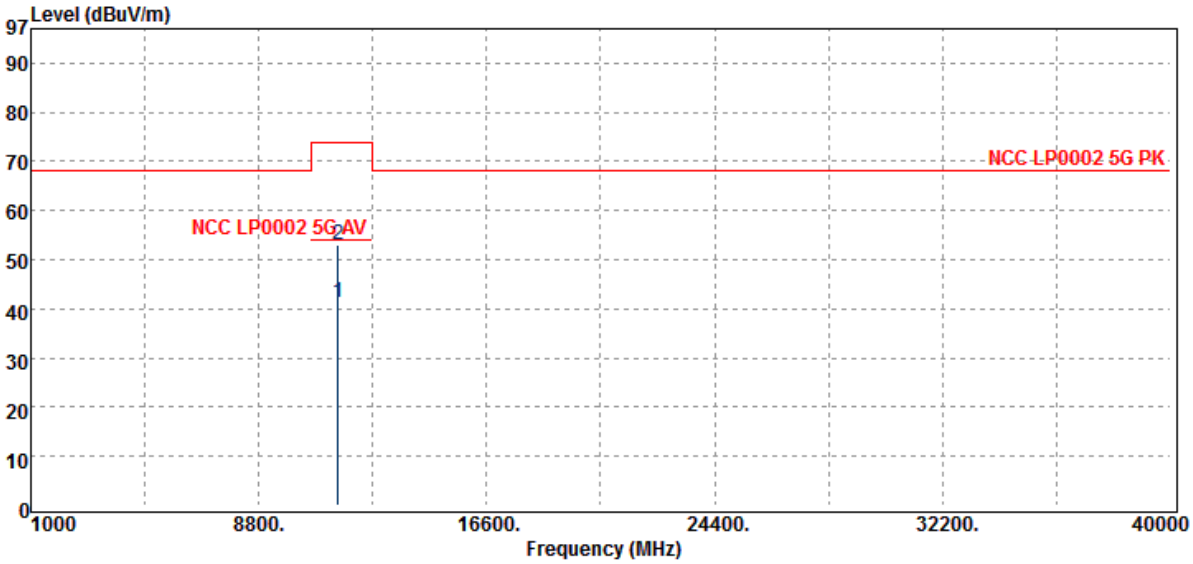
## 802.11 n HT40 /MCS8 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | 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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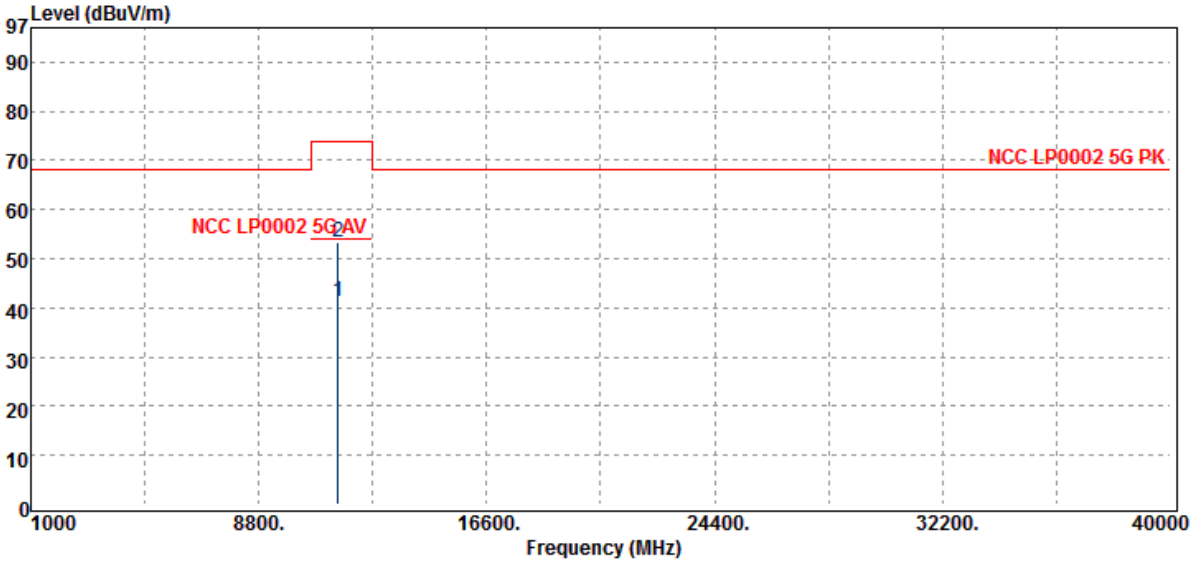
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5755 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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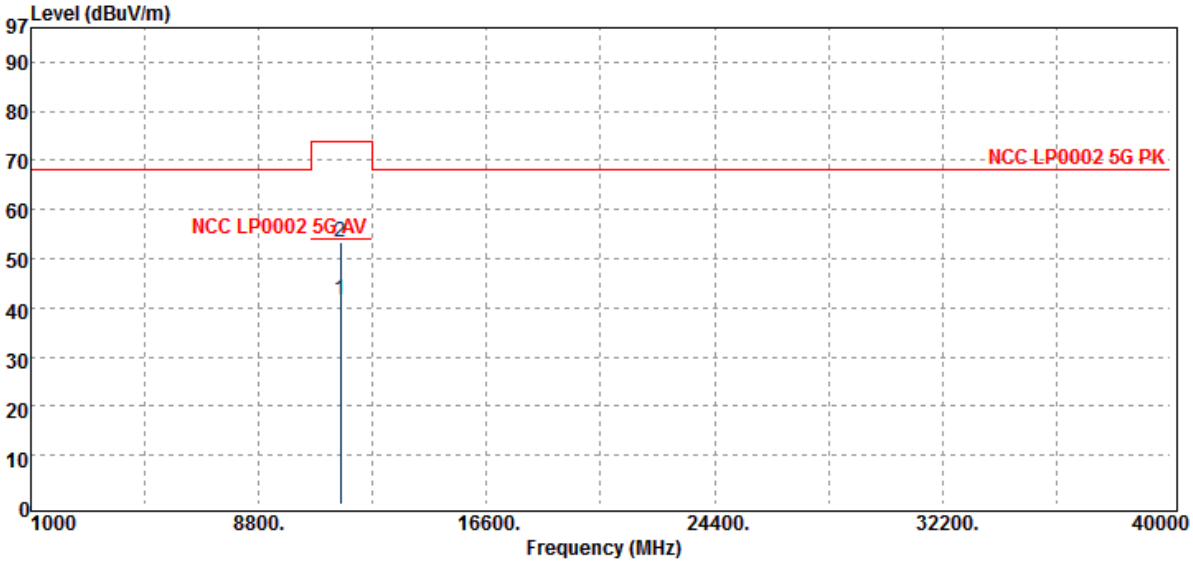
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5795 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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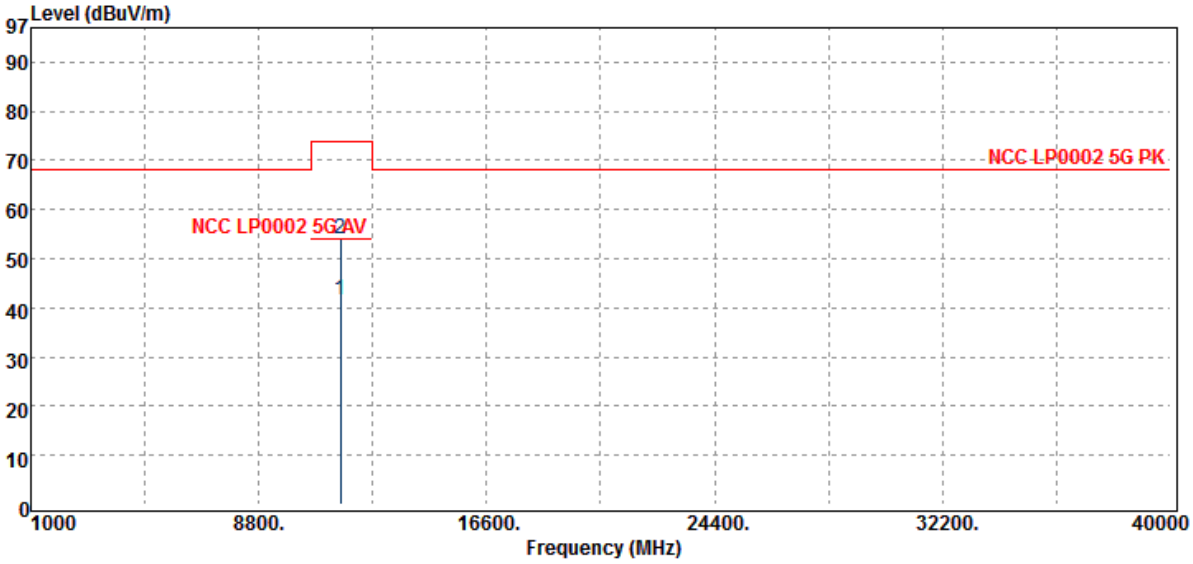
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5795 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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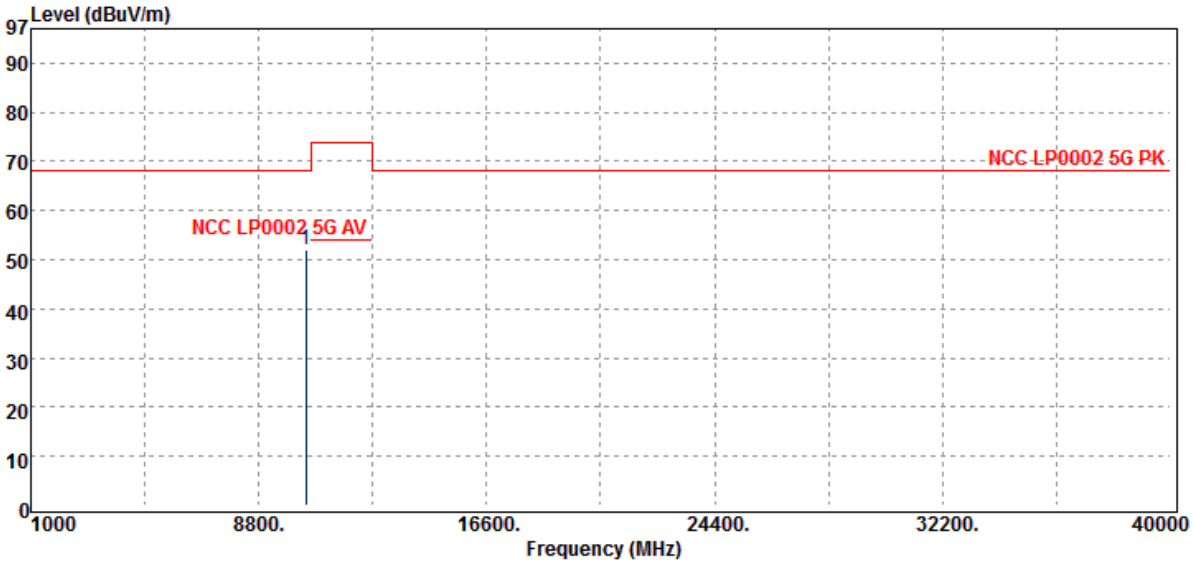
## 802.11ac VHT80 / MCS8 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | 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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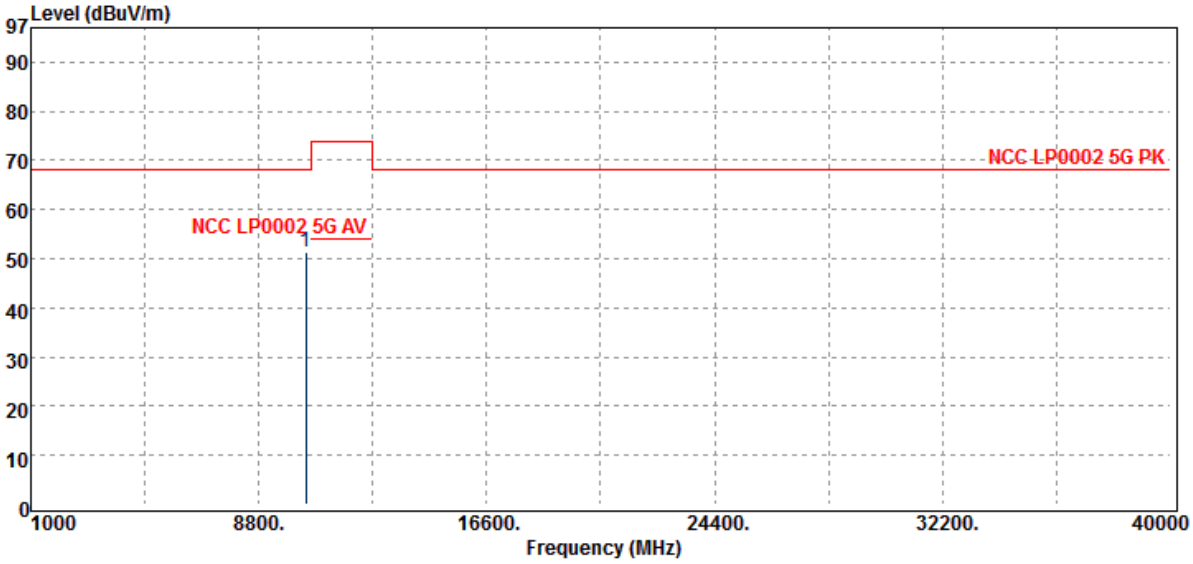
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5210 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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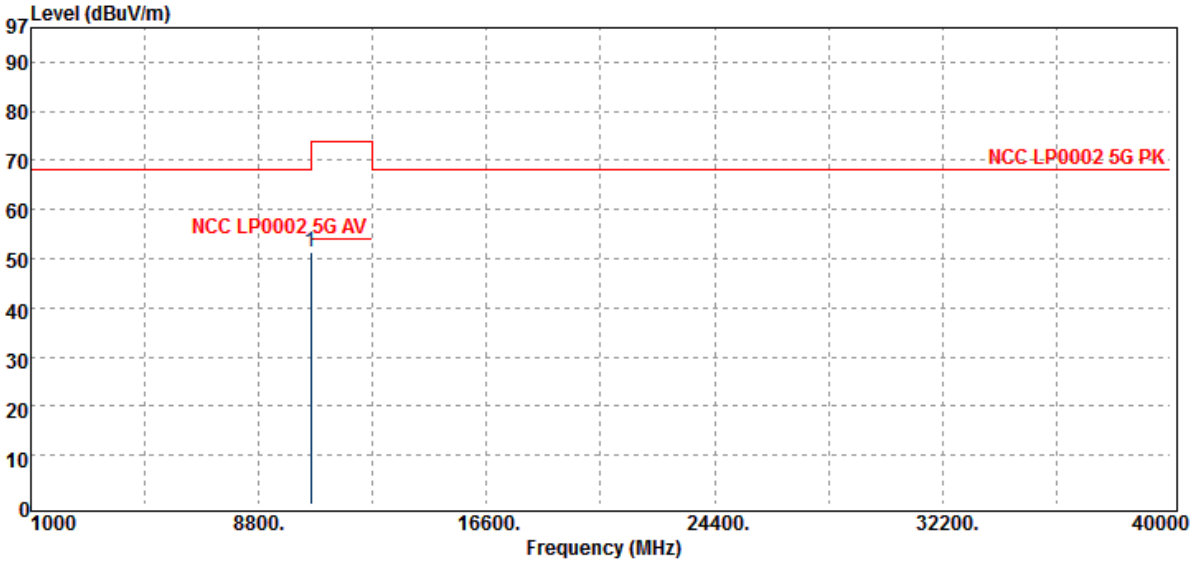
## 802.11ac VHT80 / MCS8 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5290 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | 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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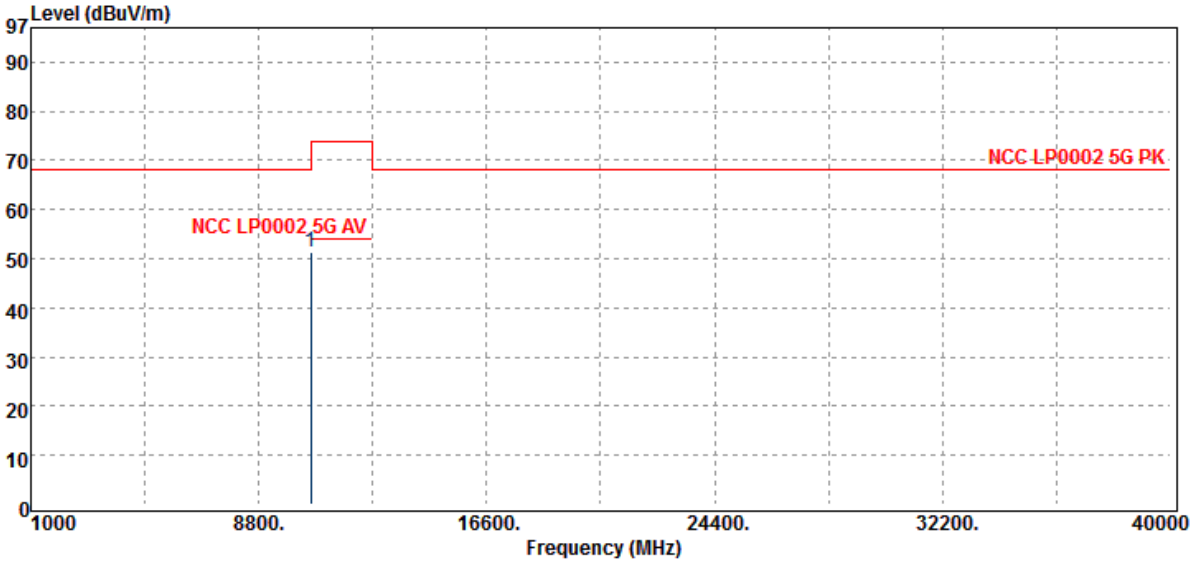
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5290 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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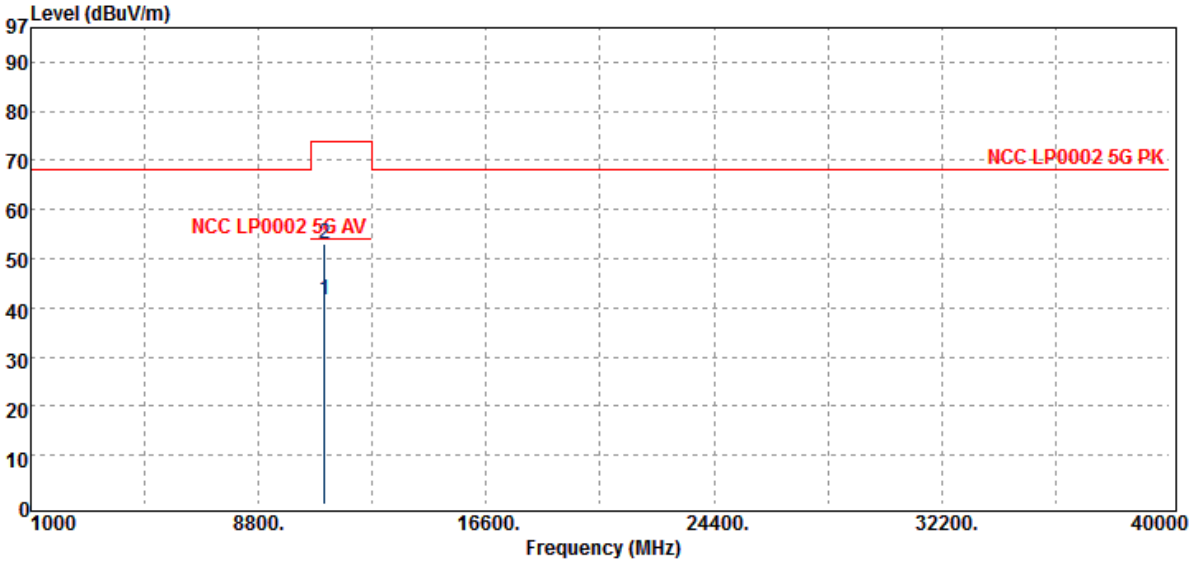
## 802.11ac VHT80 / MCS8 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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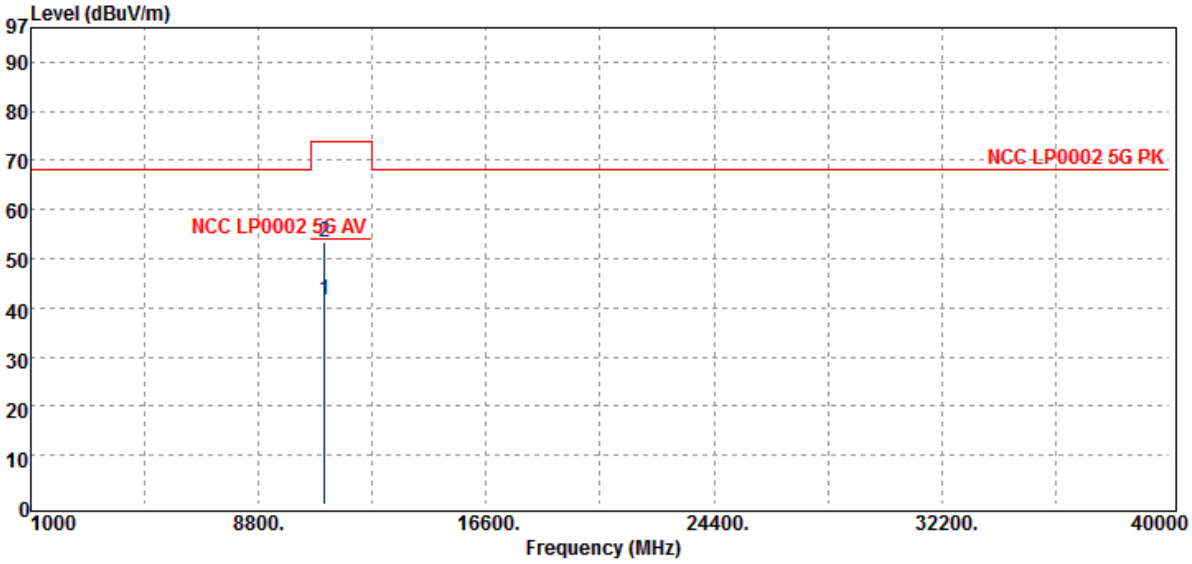
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5530 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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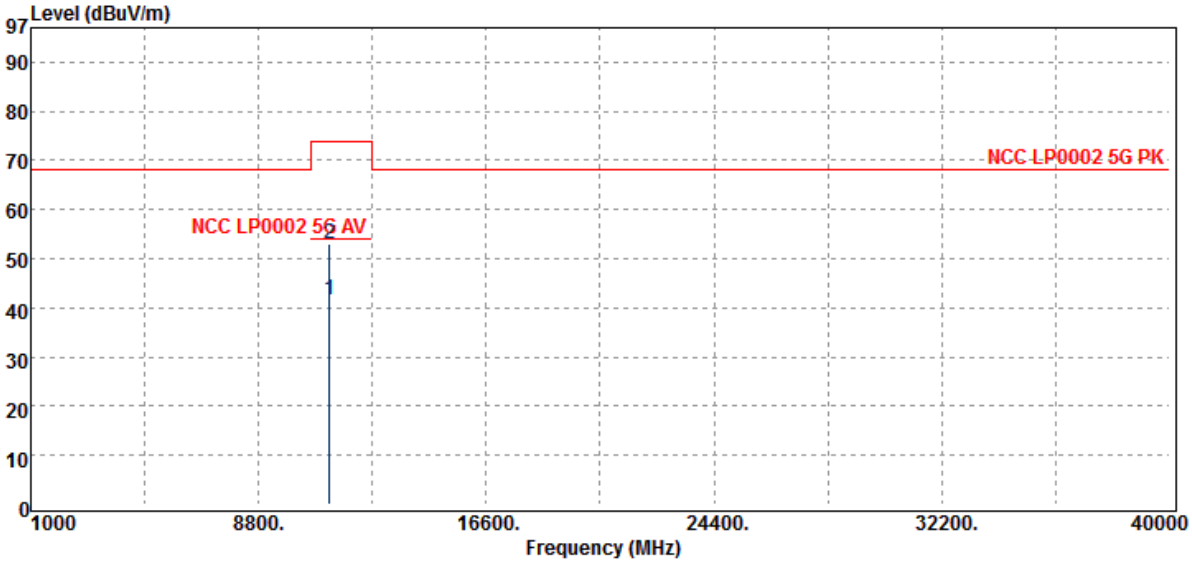
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5610 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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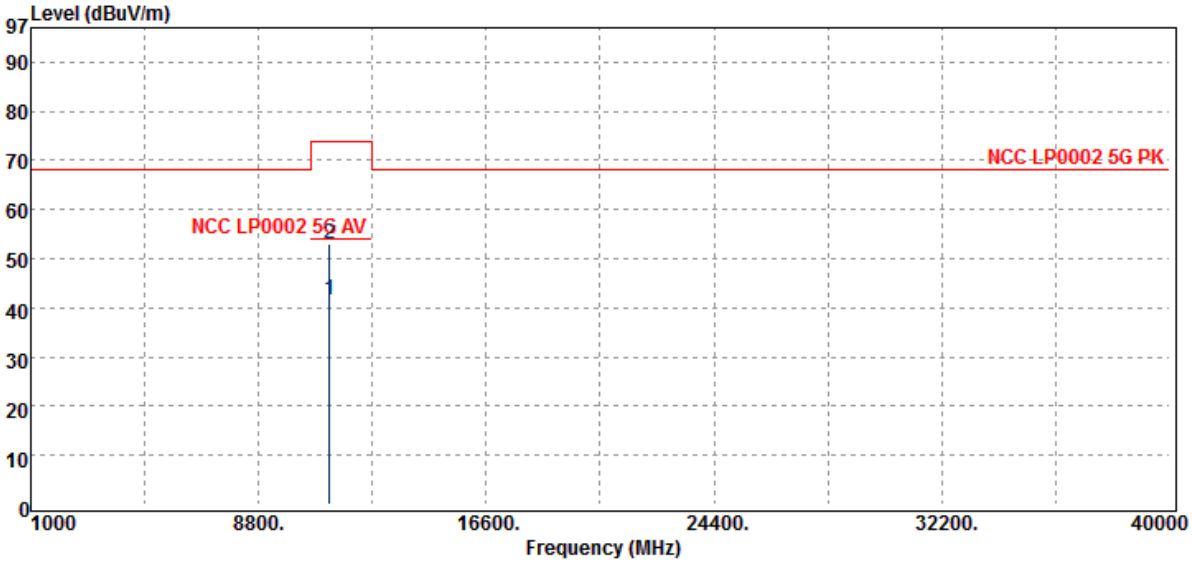
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5610 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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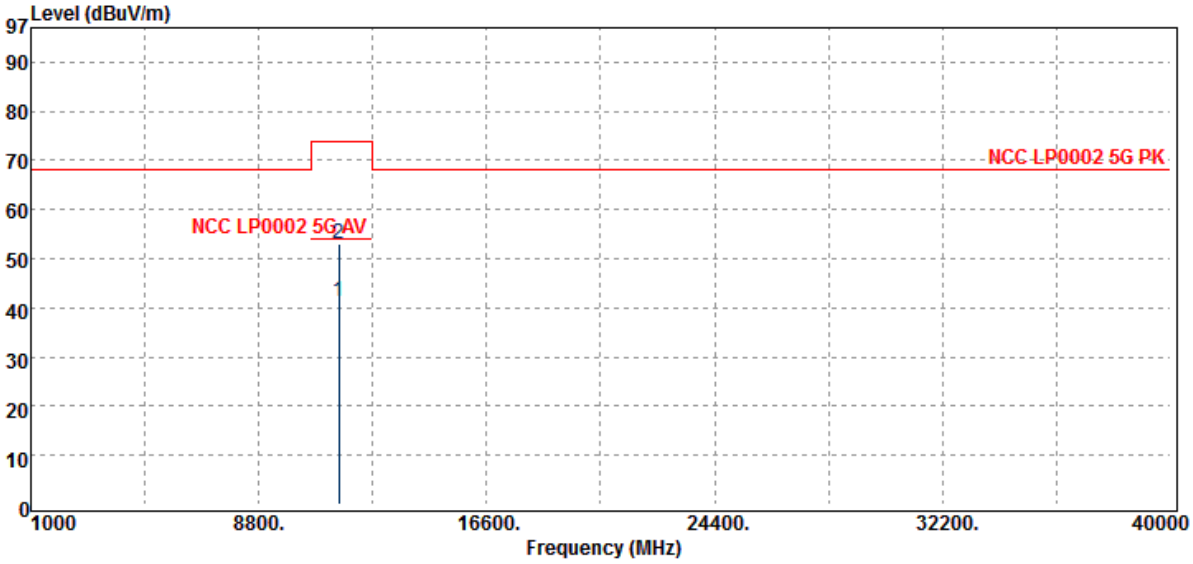
## 802.11ac VHT80 / MCS8 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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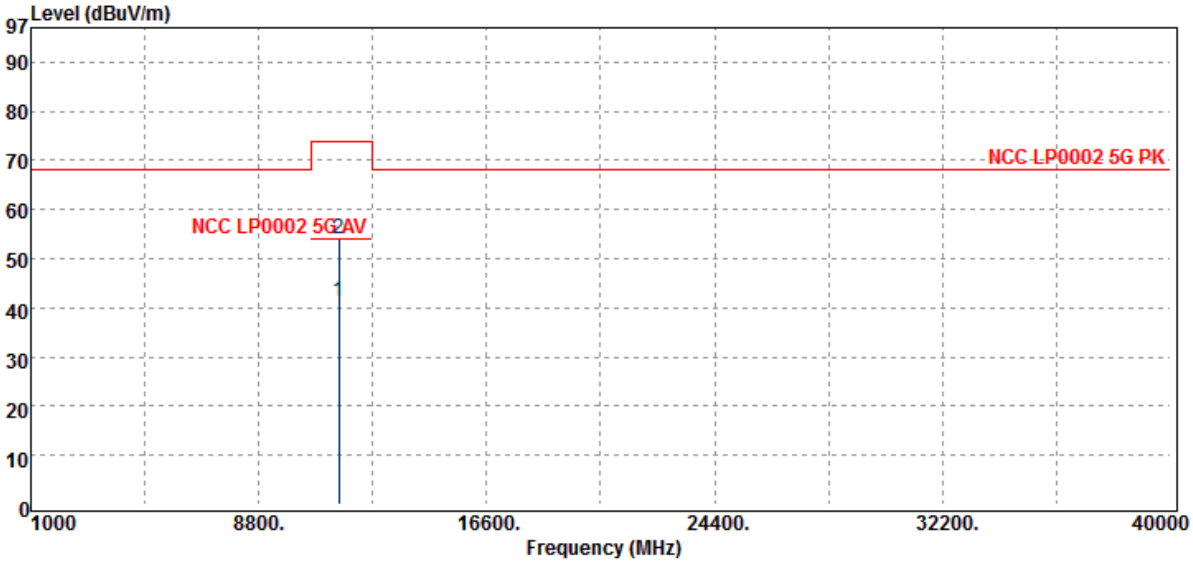
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5775 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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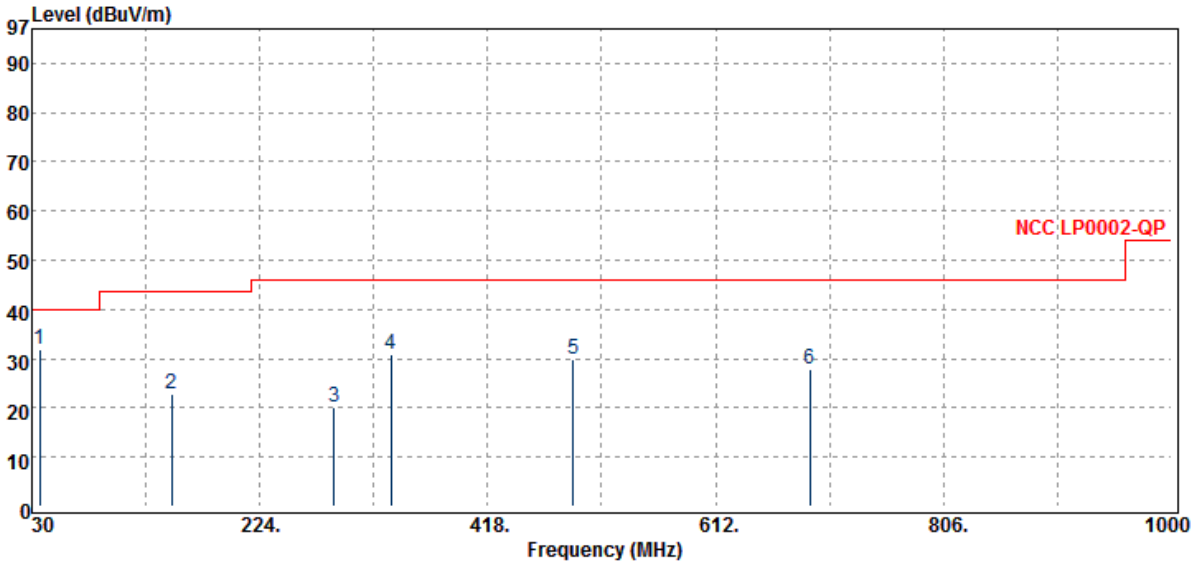
## 802.11a / 6Mbps 接收模式 1GHz 以下測試 (最差模式) (5150MHz-5250MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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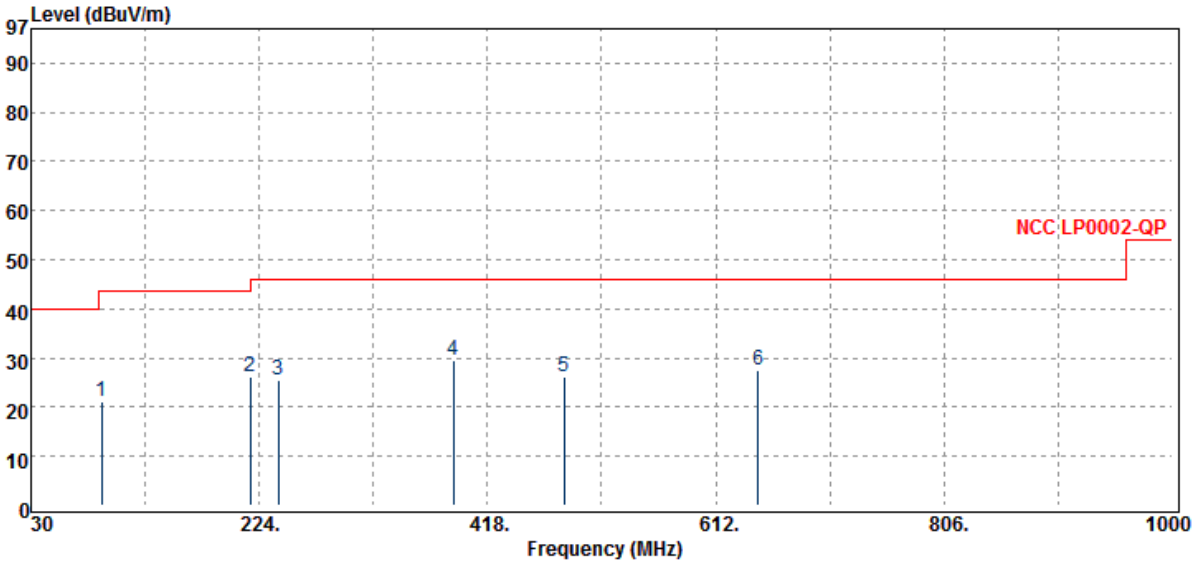
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Rx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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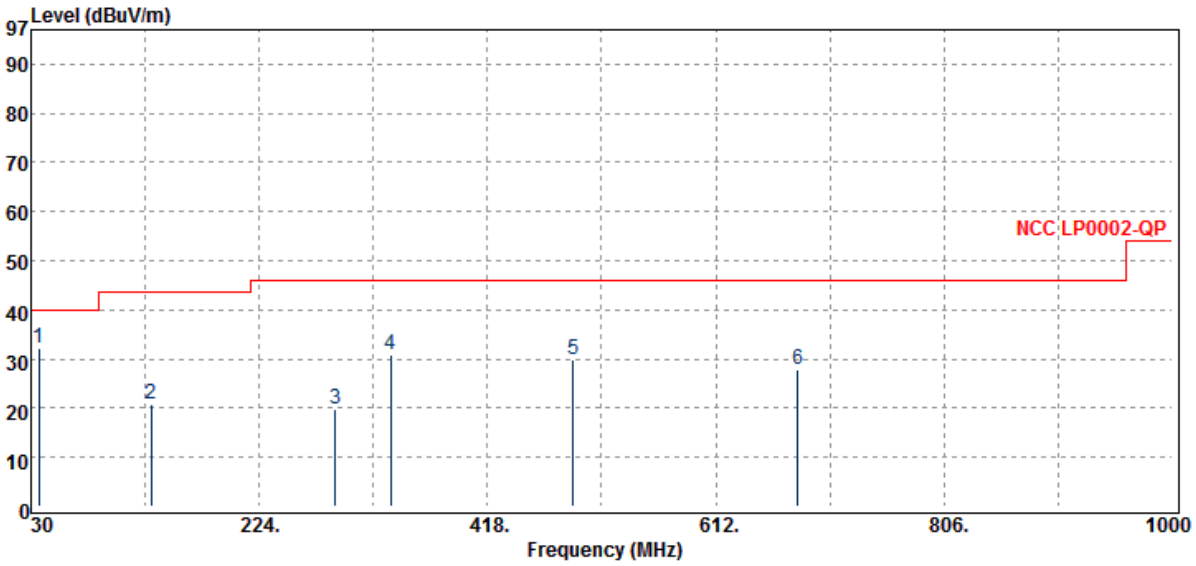
## 802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以下)（最差模式）(5250MHz-5350MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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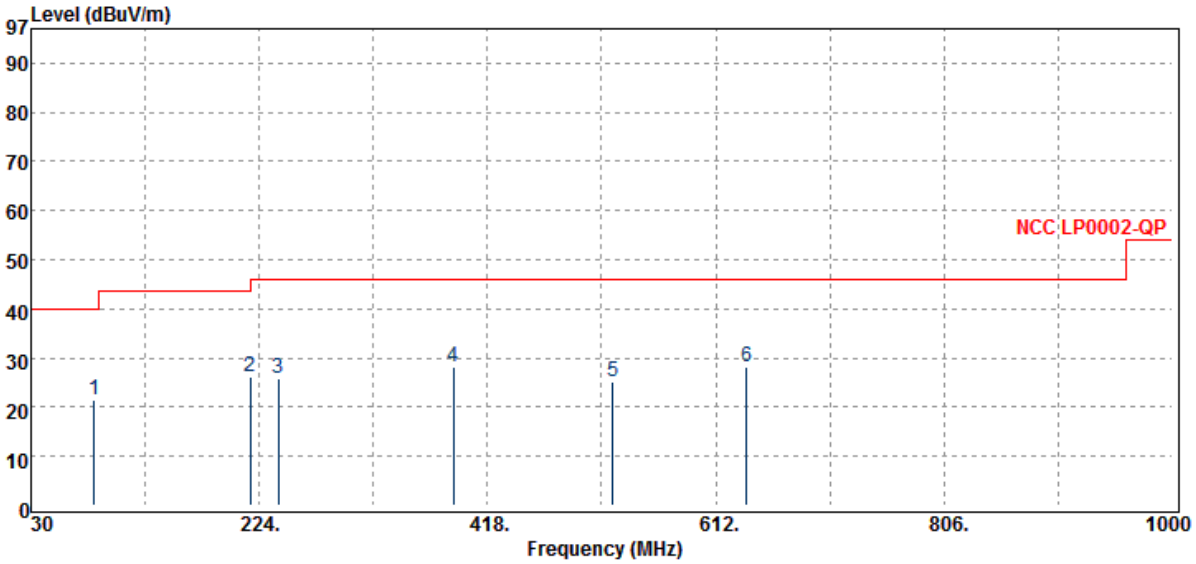
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Rx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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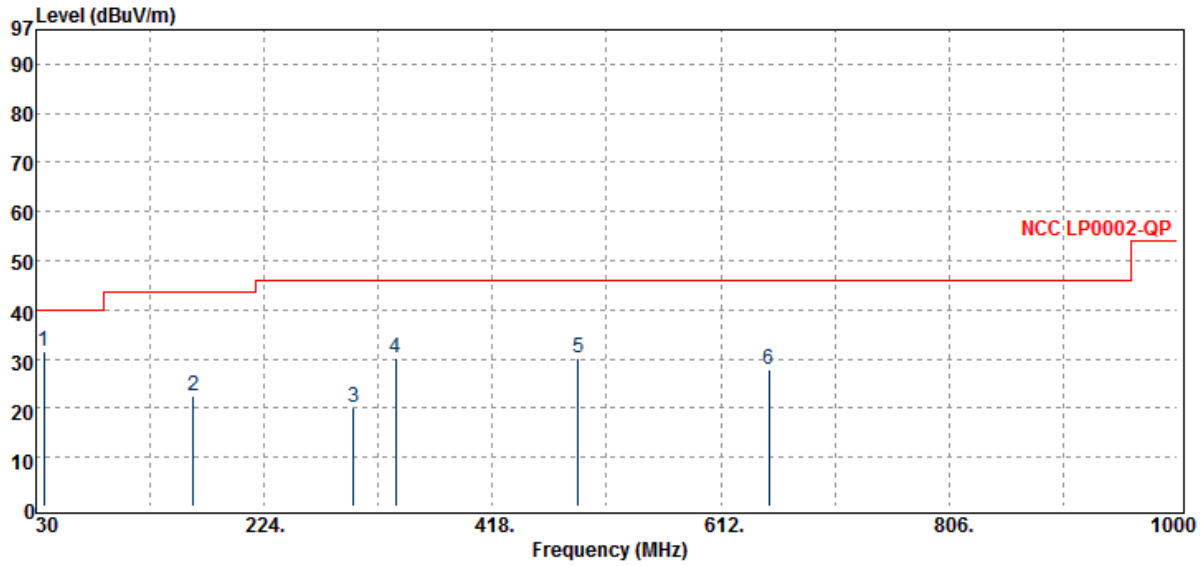
## 802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以下)（最差模式）(5470MHz-5725MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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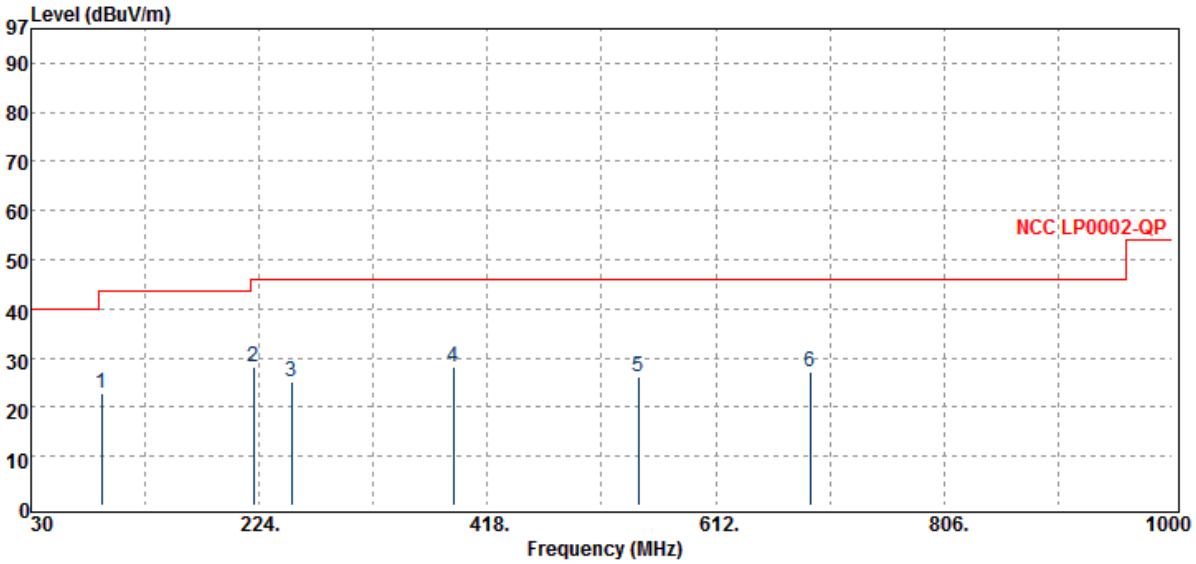
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Rx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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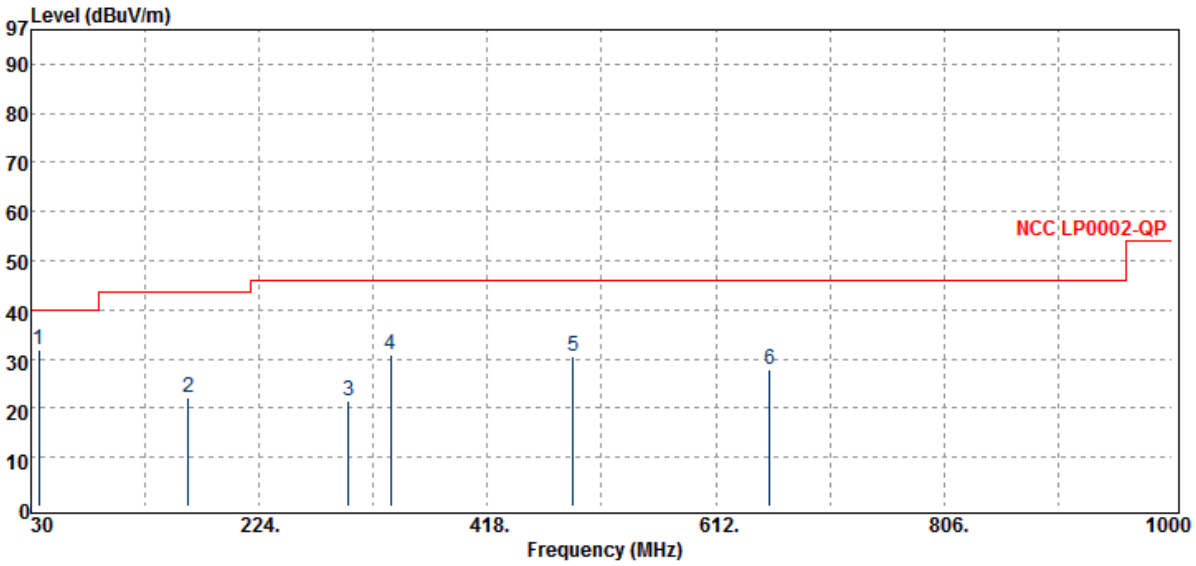
## 802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以下)（最差模式）(5725MHz-5850MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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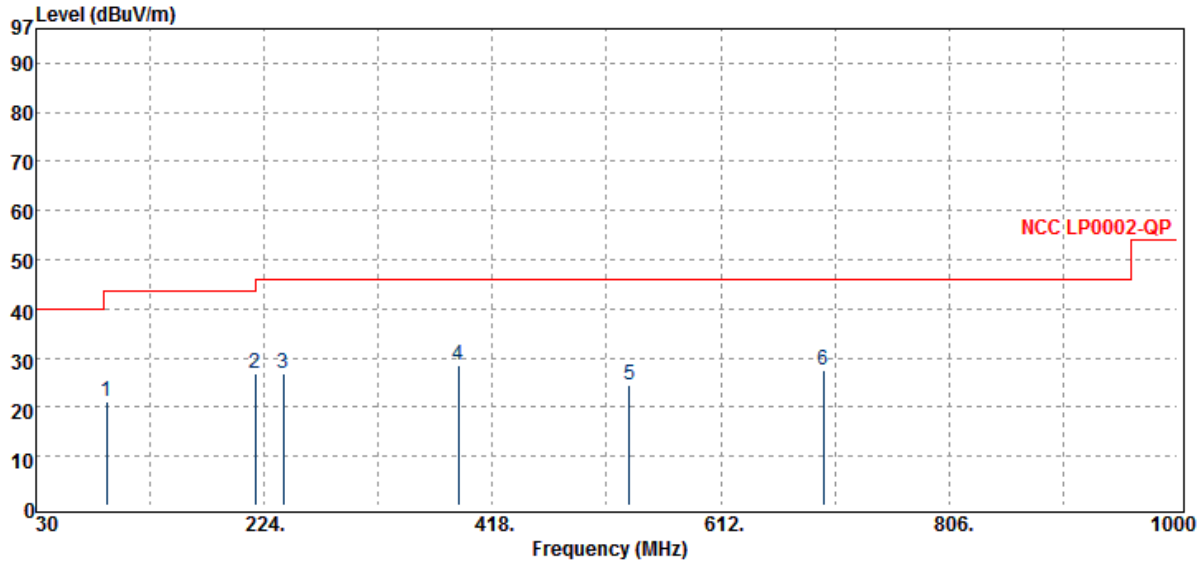
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Rx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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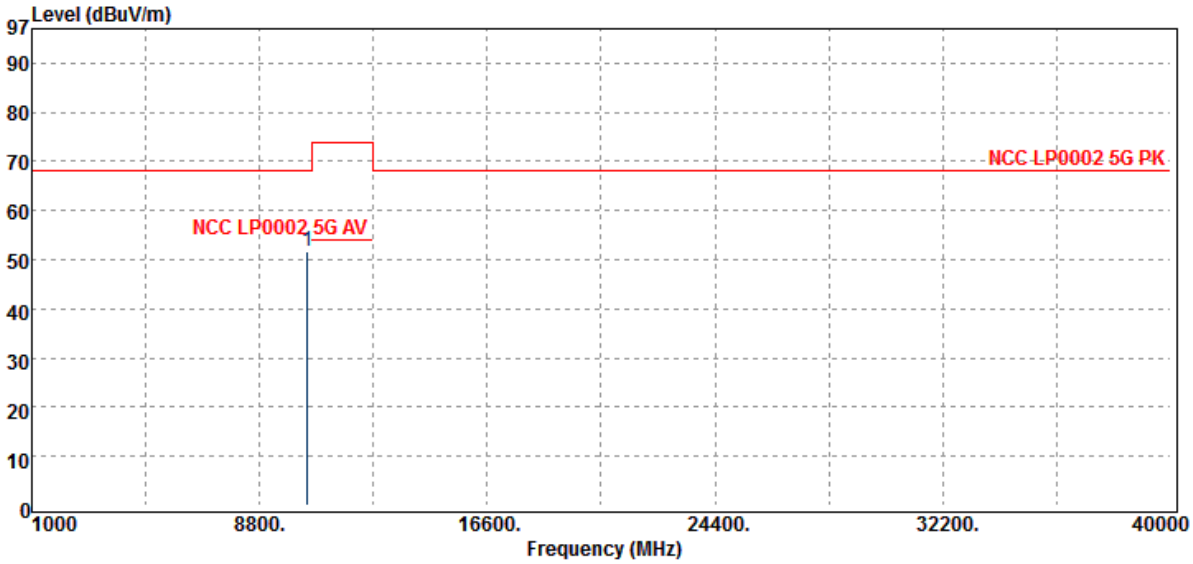
## 802.11a / 6Mbps 接收模式 1GHz 以上測試 (最差模式) (5150MHz-5250MHz)

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

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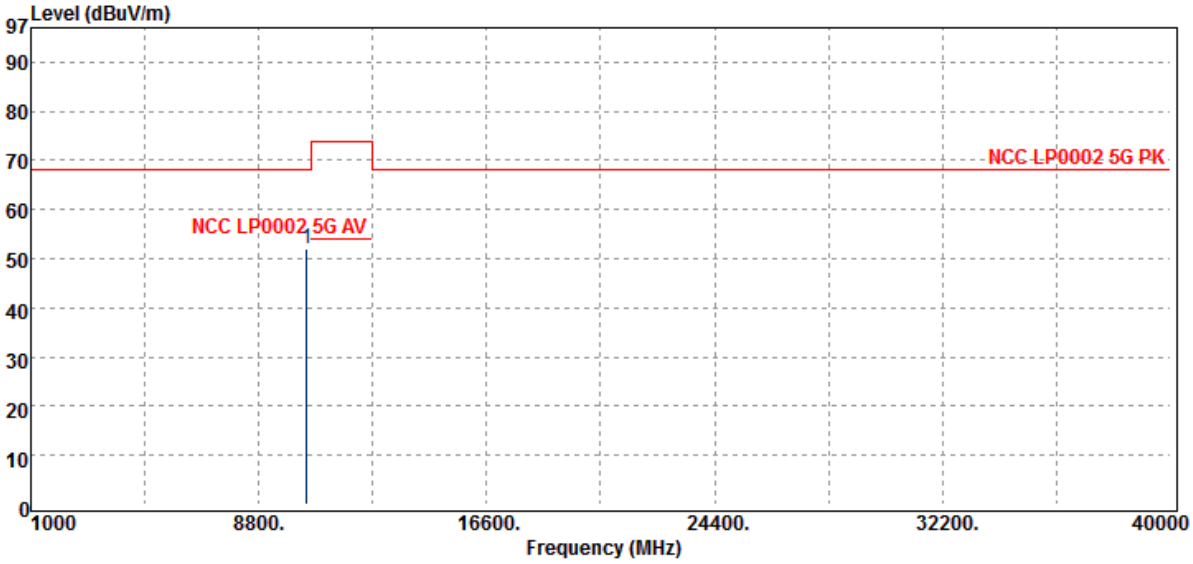
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Rx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




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

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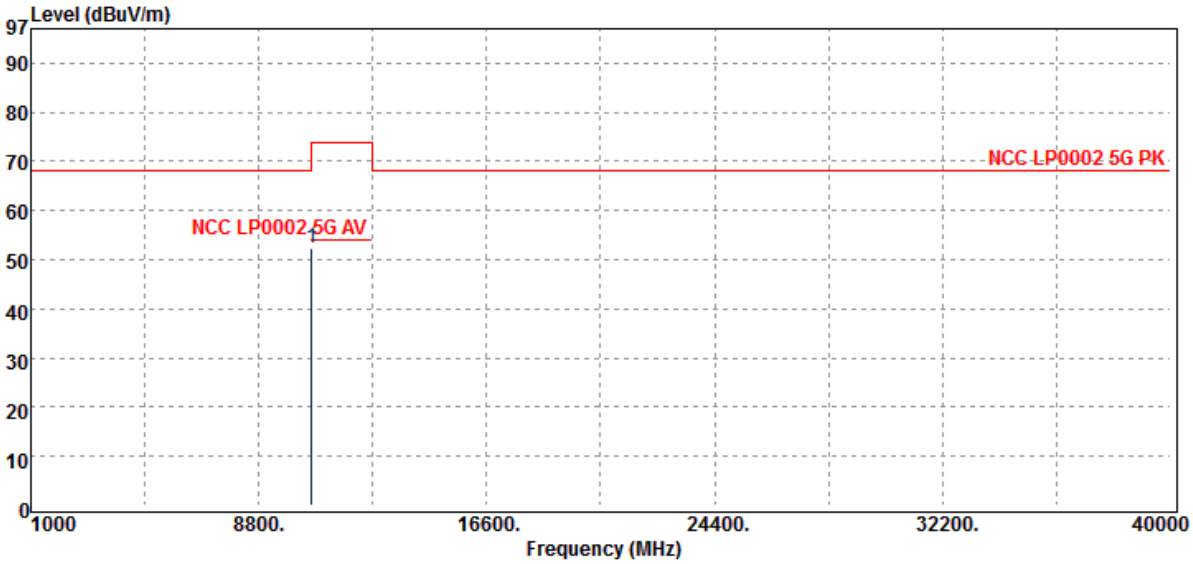
## 802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以上) (最差模式) (5250MHz- 5350MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | 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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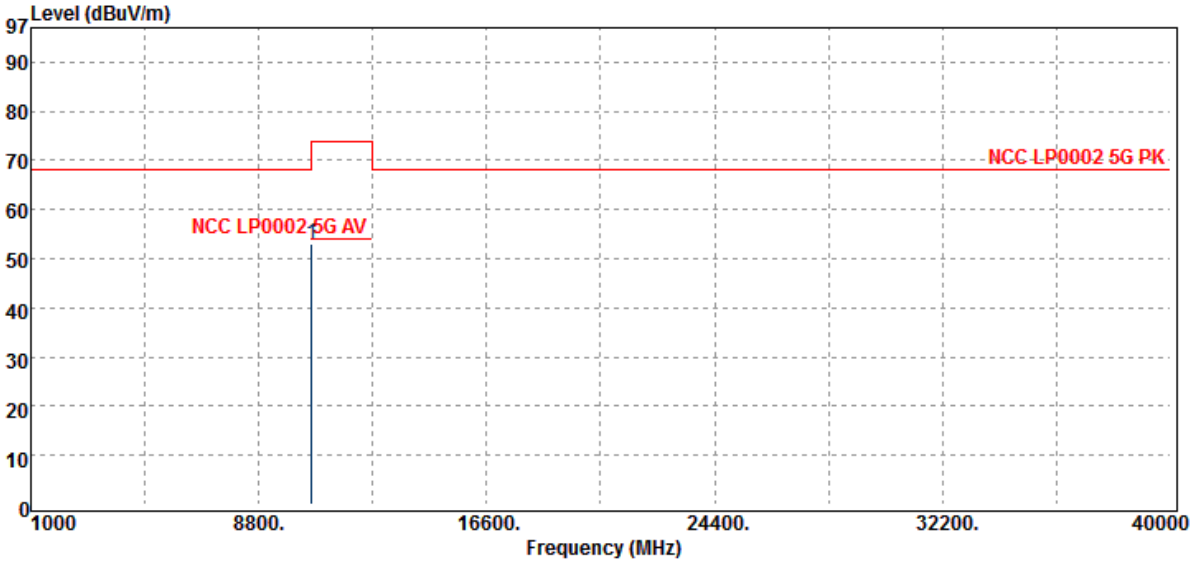
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Rx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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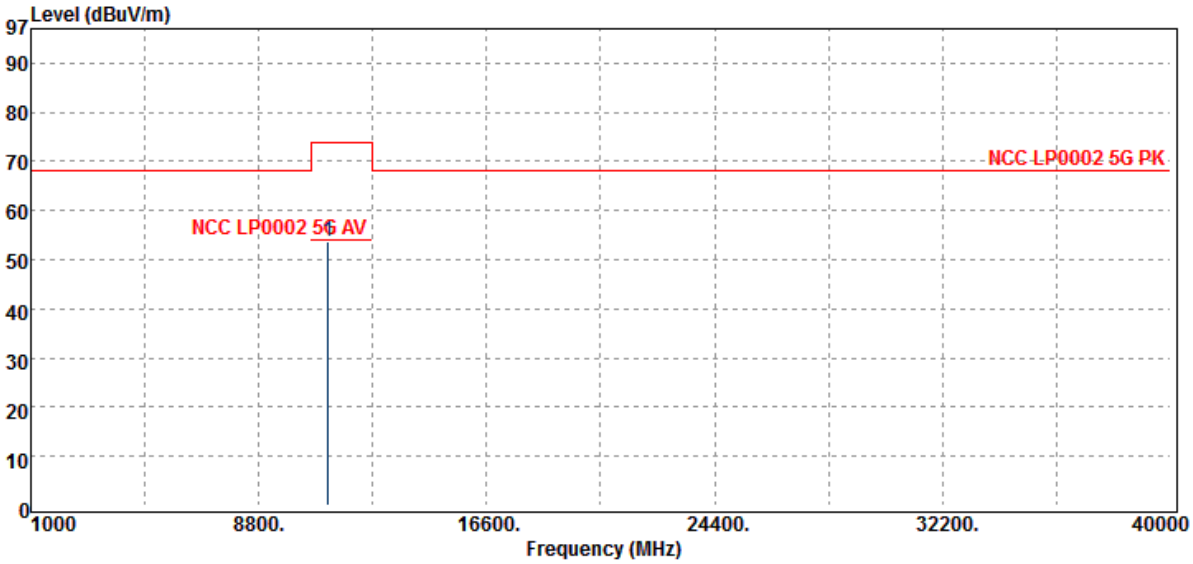
## 802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以上)（最差模式）(5470MHz-5725MHz)

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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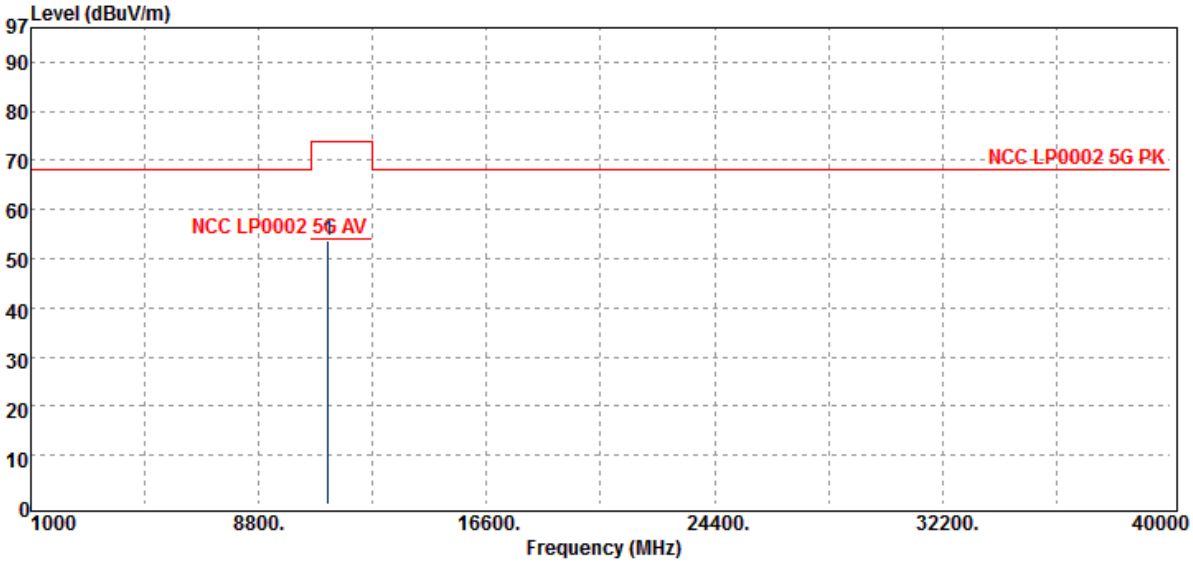
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Rx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Safe 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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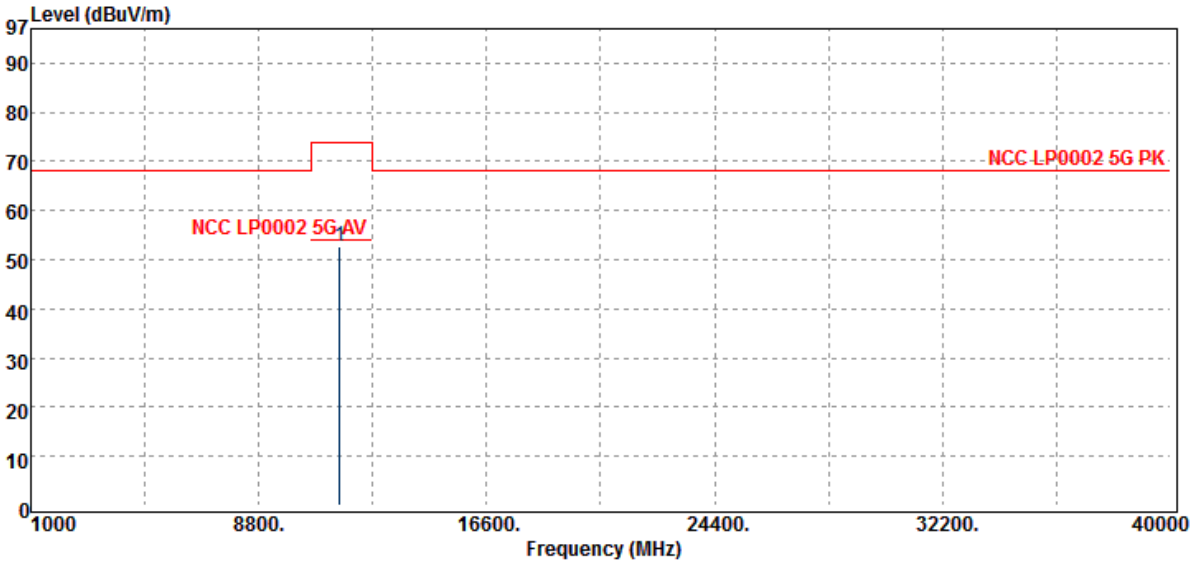
## 802.11a / 6Mbps 接收機場強輻射之量測結果(1GHz 以上)（最差模式）(5725MHz-5850MHz)

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

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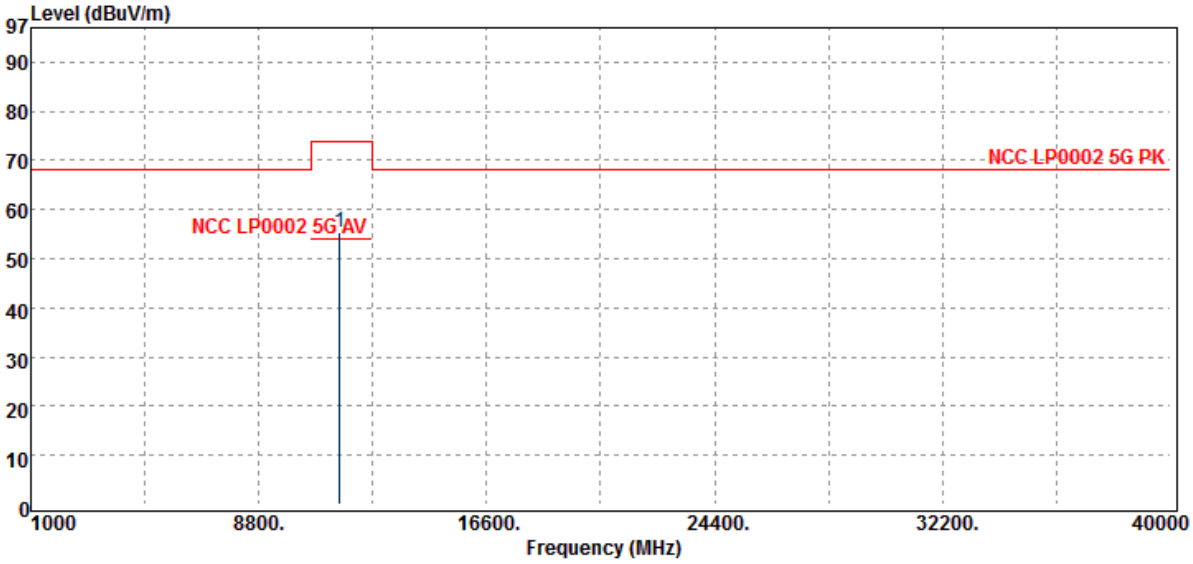
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :23 deg_C / 62 RH |
| Operation Mode | :Rx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




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

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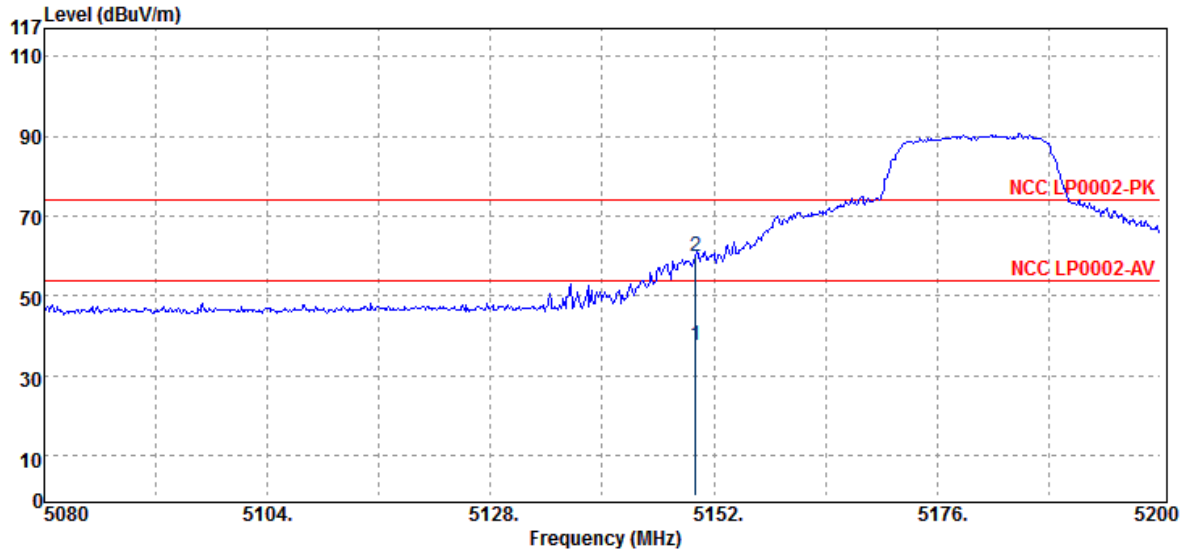
## 6.6 放頻帶邊緣量測結果

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

| | | | |
|---|---|---|---|
| Operation Band | :802.11aB1 | 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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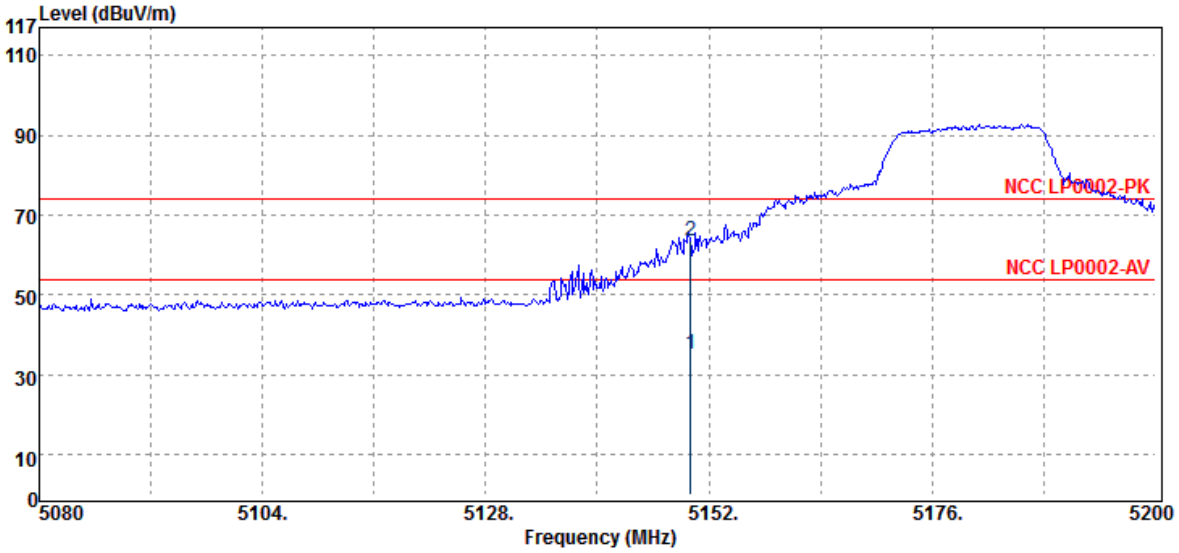
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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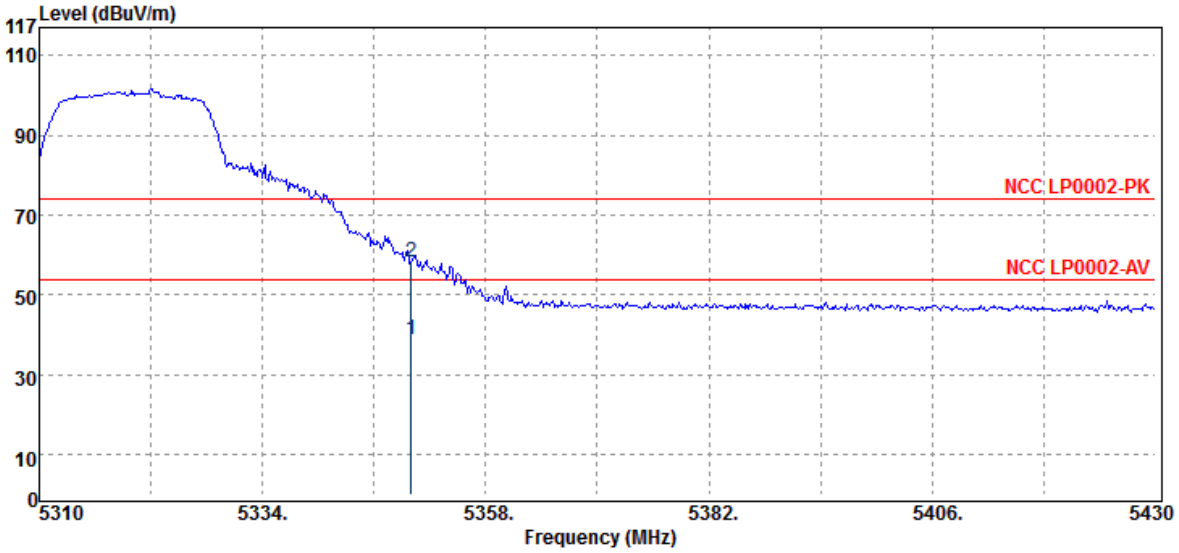
## *頻帶外發射輻射量測值 (802.11a) (5250MHz-5350MHz)*

| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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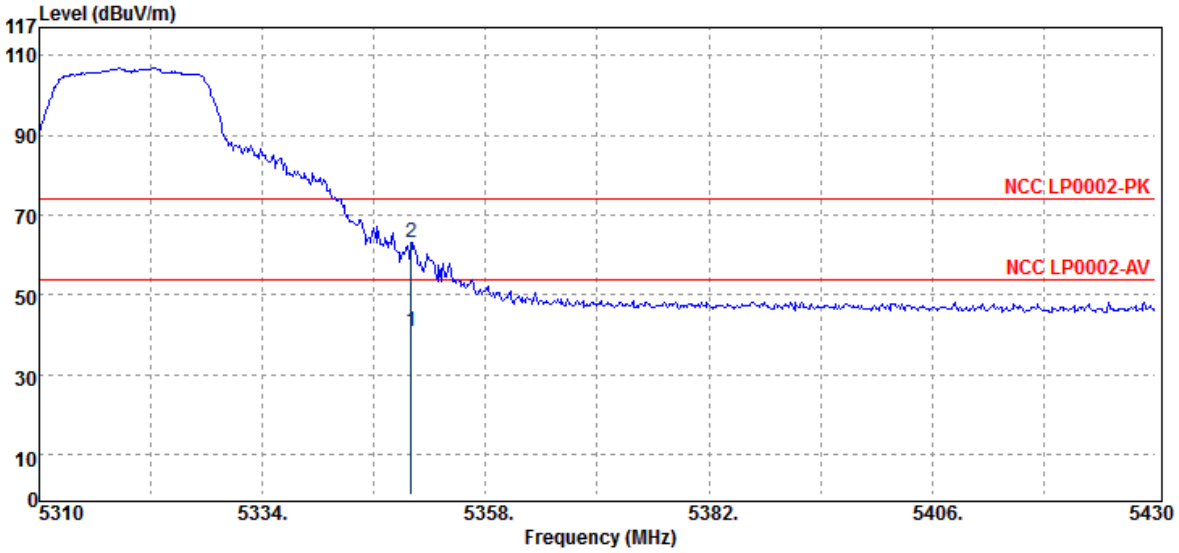
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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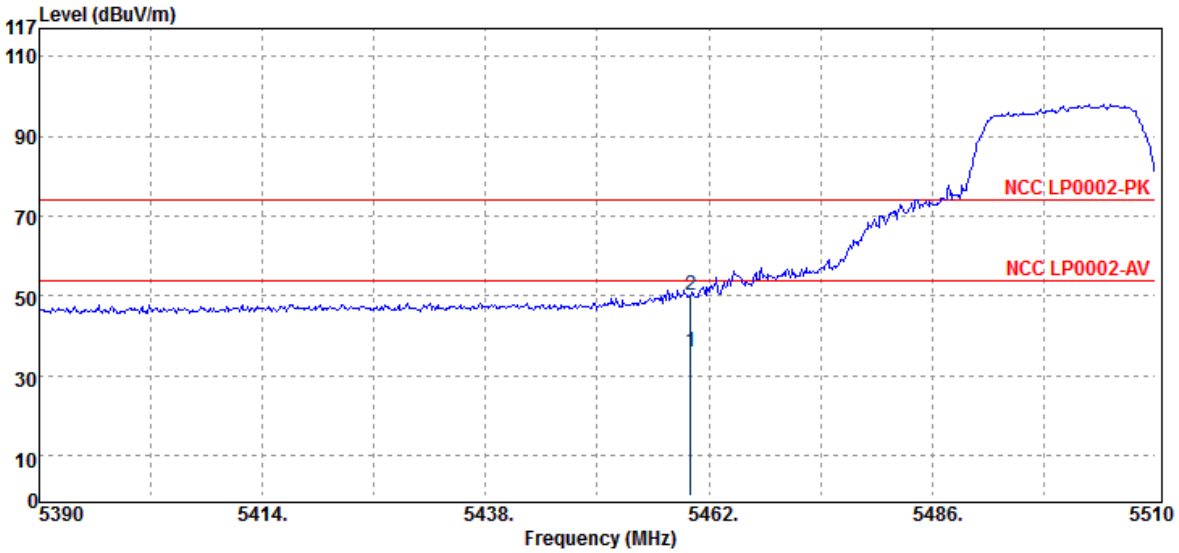
## *頻帶外發射輻射量測值 (802.11a) (5470MHz-5725MHz)*

| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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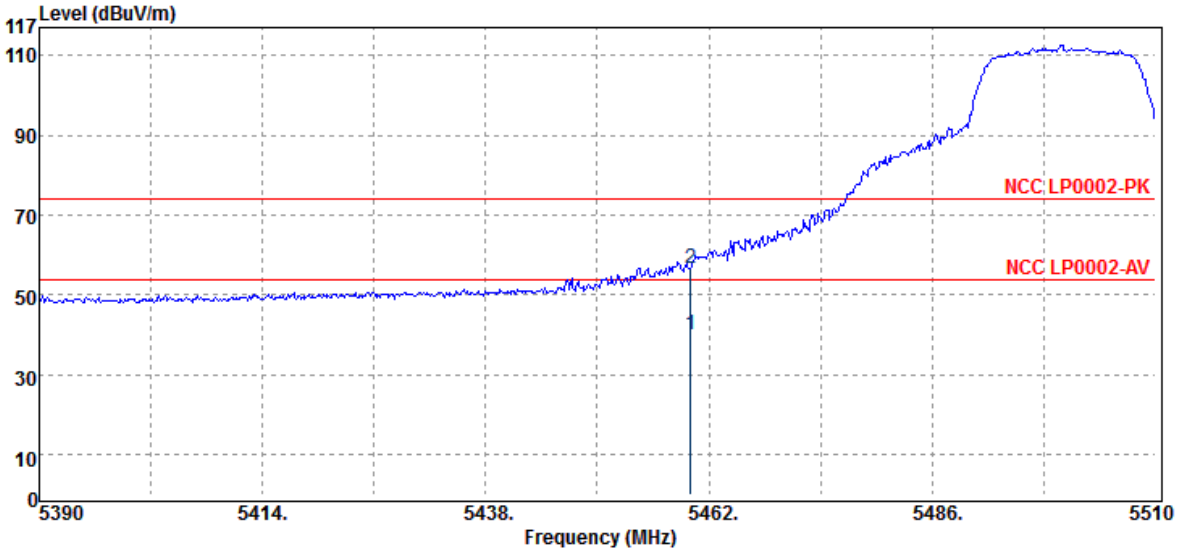
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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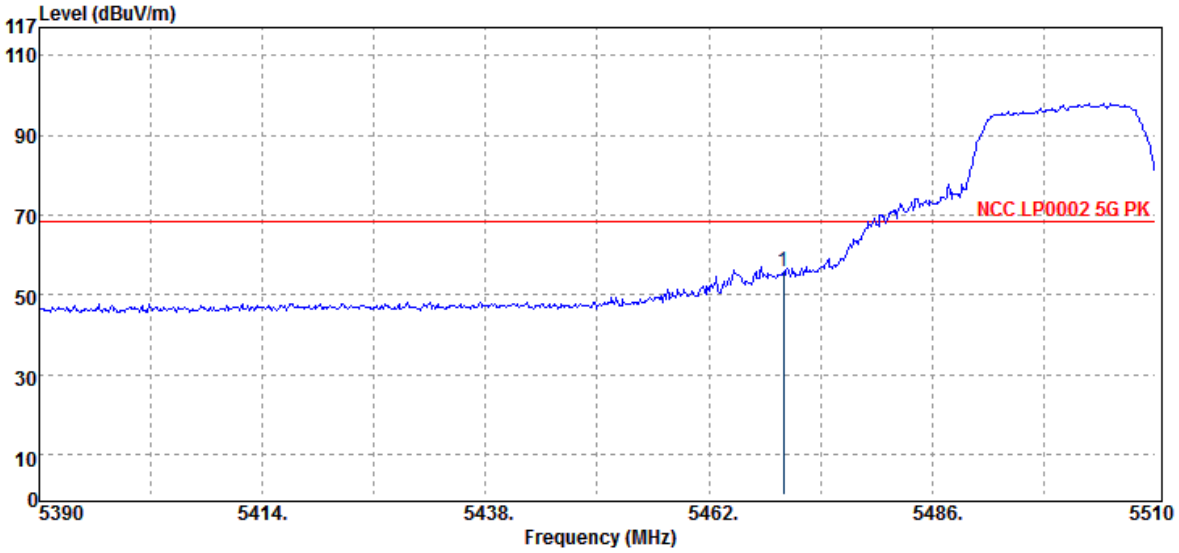
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




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

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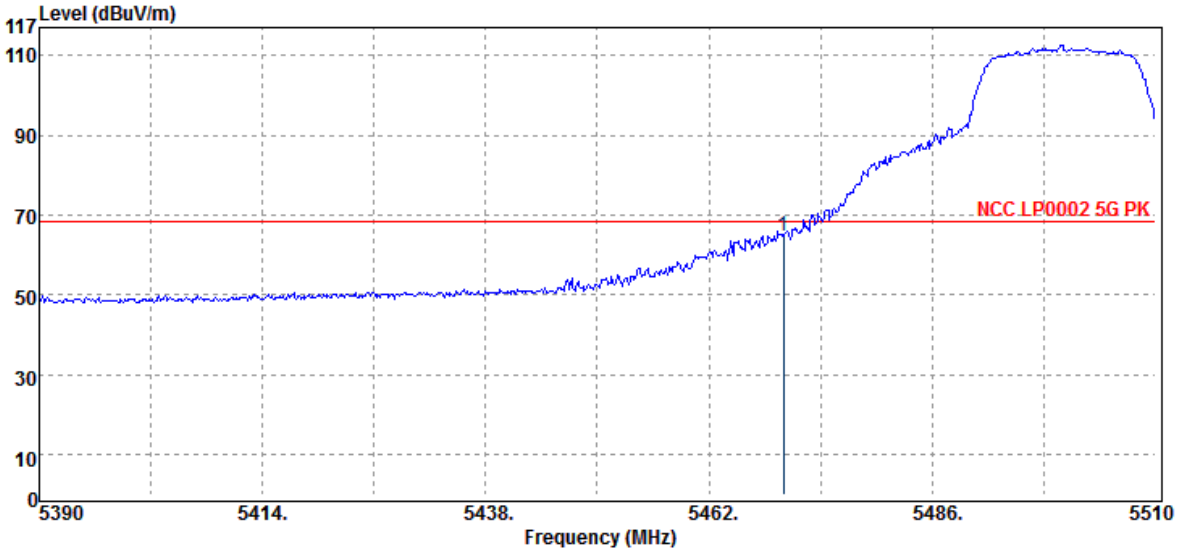
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




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

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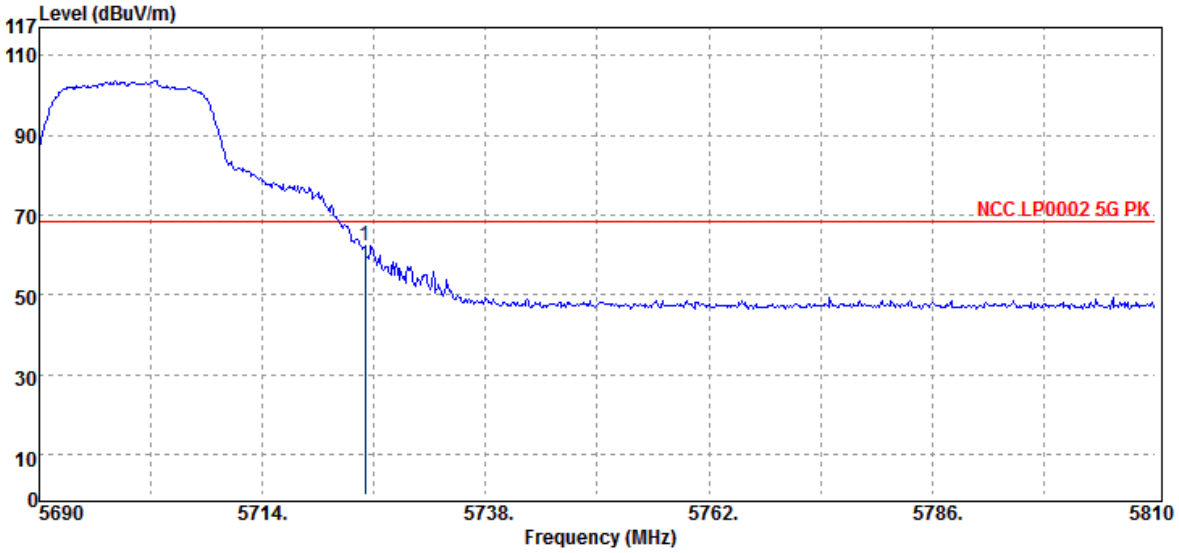
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




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

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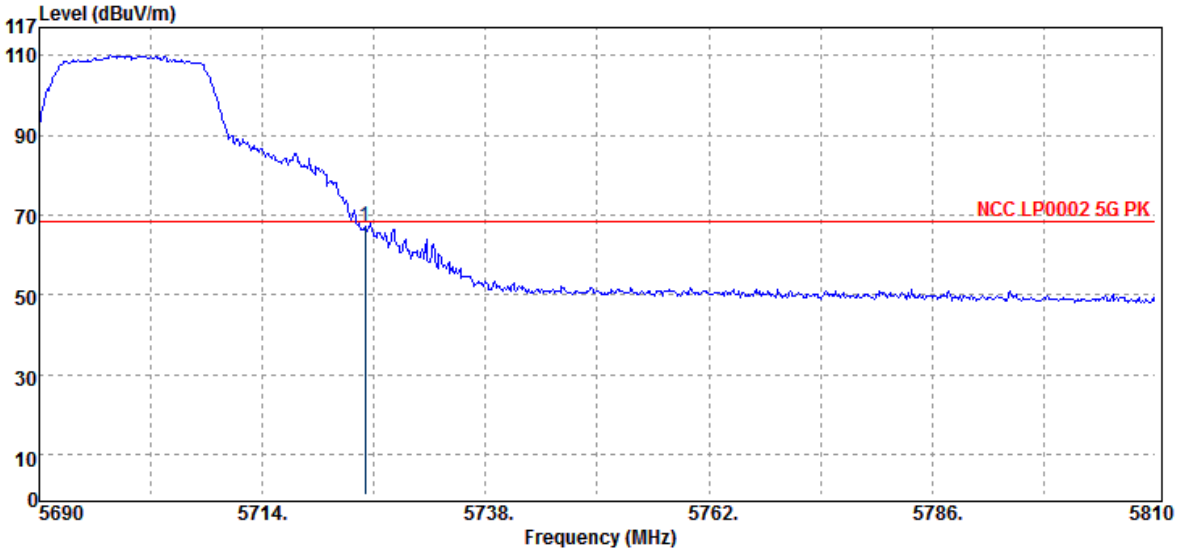
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




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

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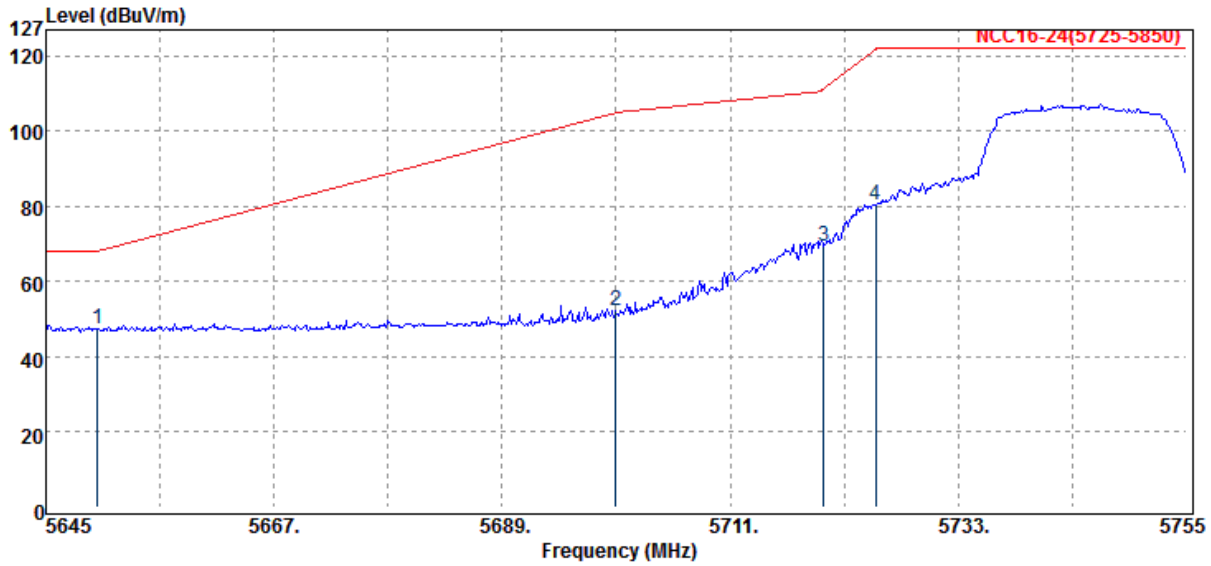
## *頻帶外發射輻射量測值 (802.11a) (5725MHz-5850MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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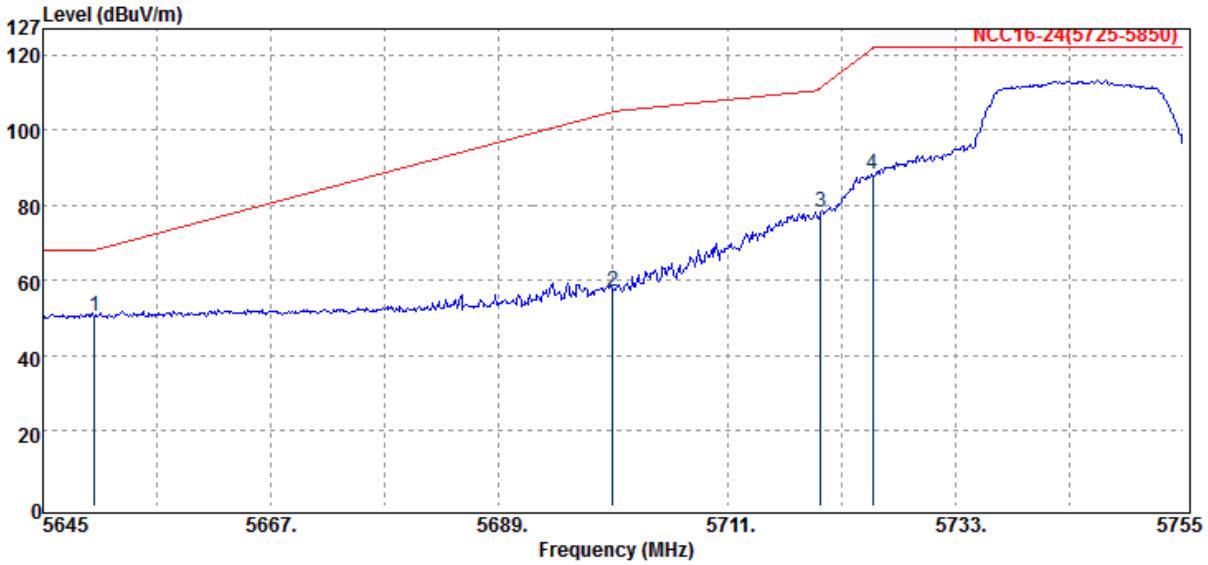
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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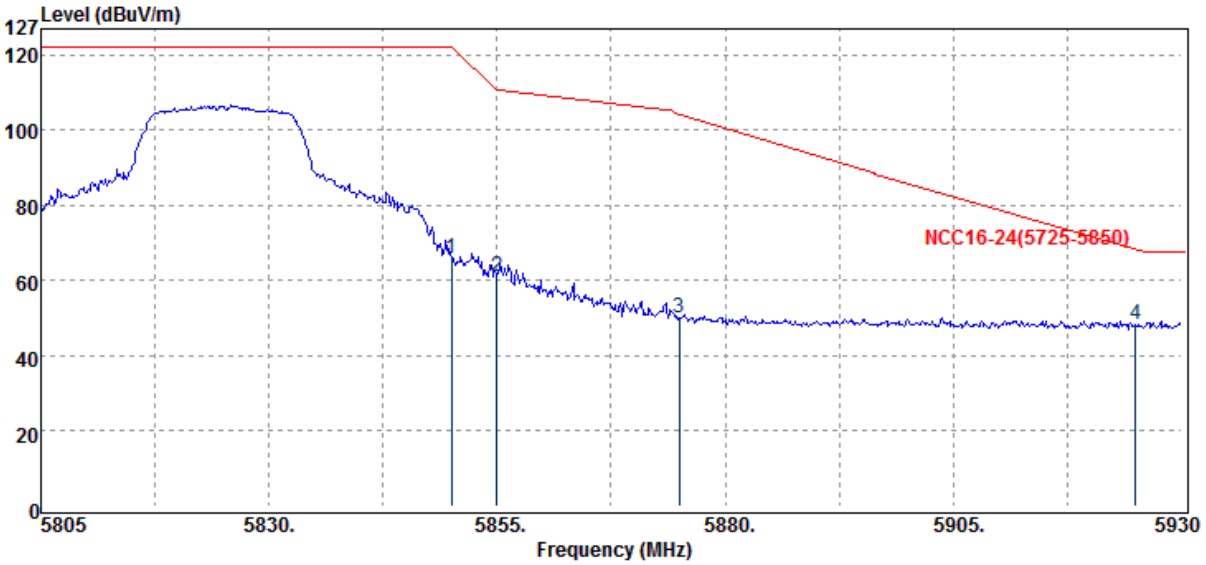
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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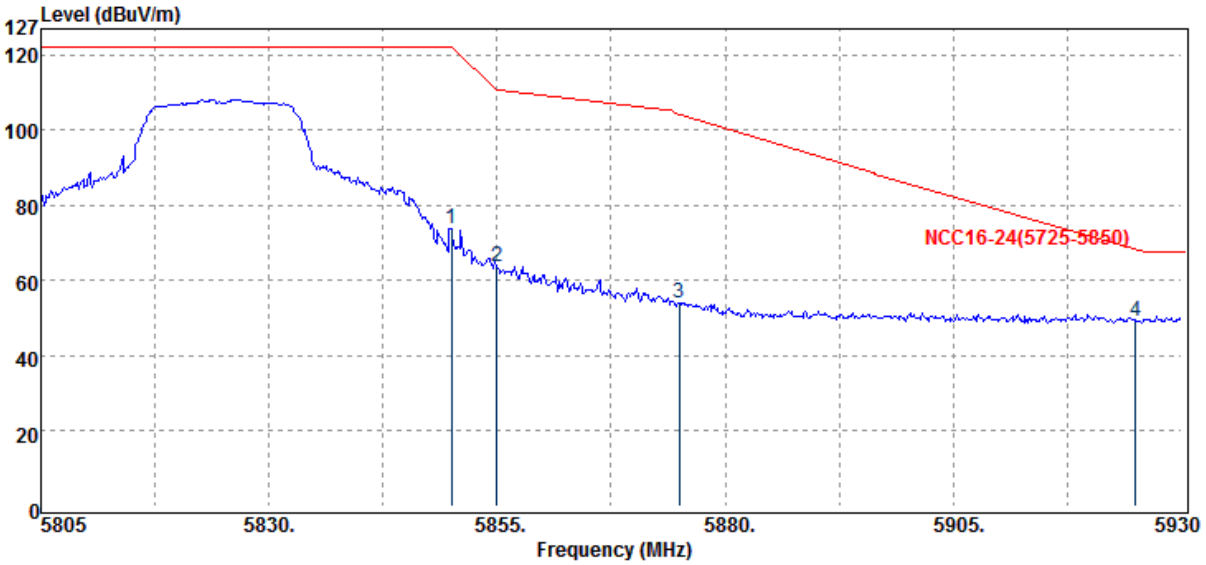
| | | | |
|---|---|---|---|
| Operation Band | :802.11aB4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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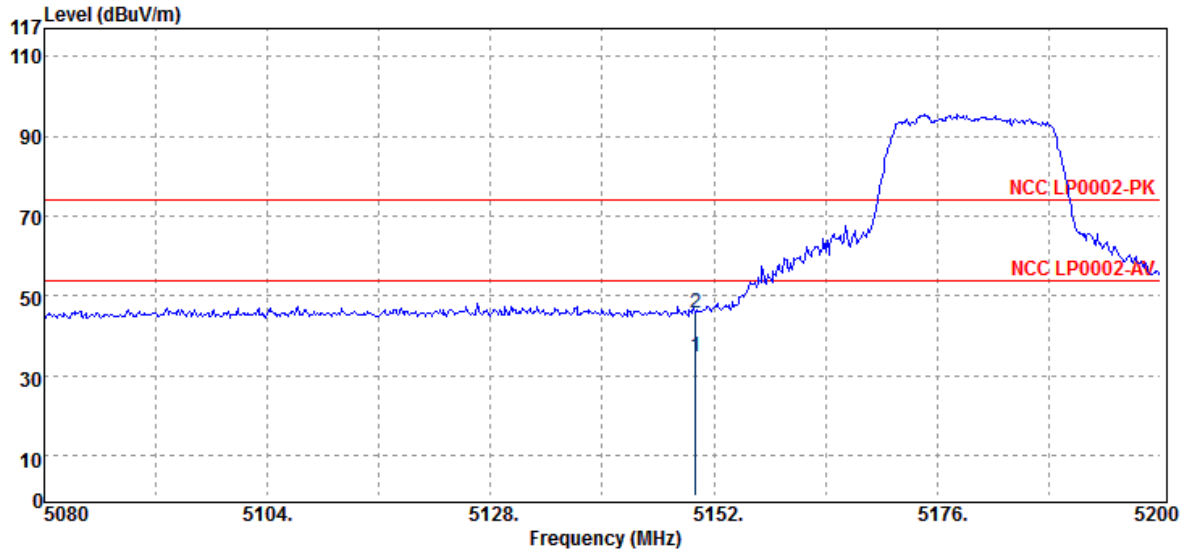
## *頻帶外發射輻射量測值 (802.11n HT20) (5150MHz-5250MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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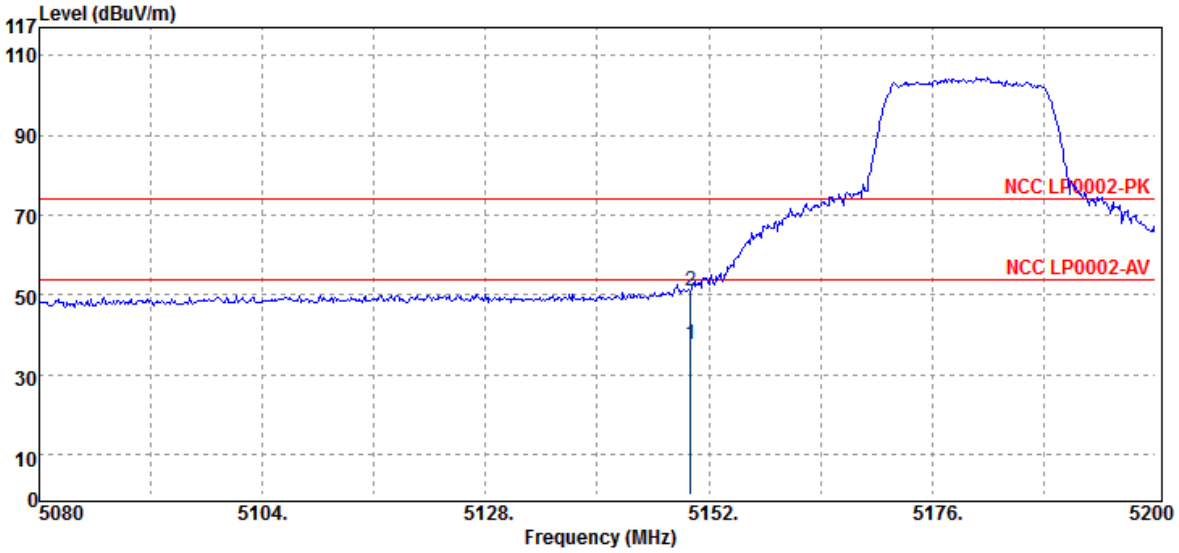
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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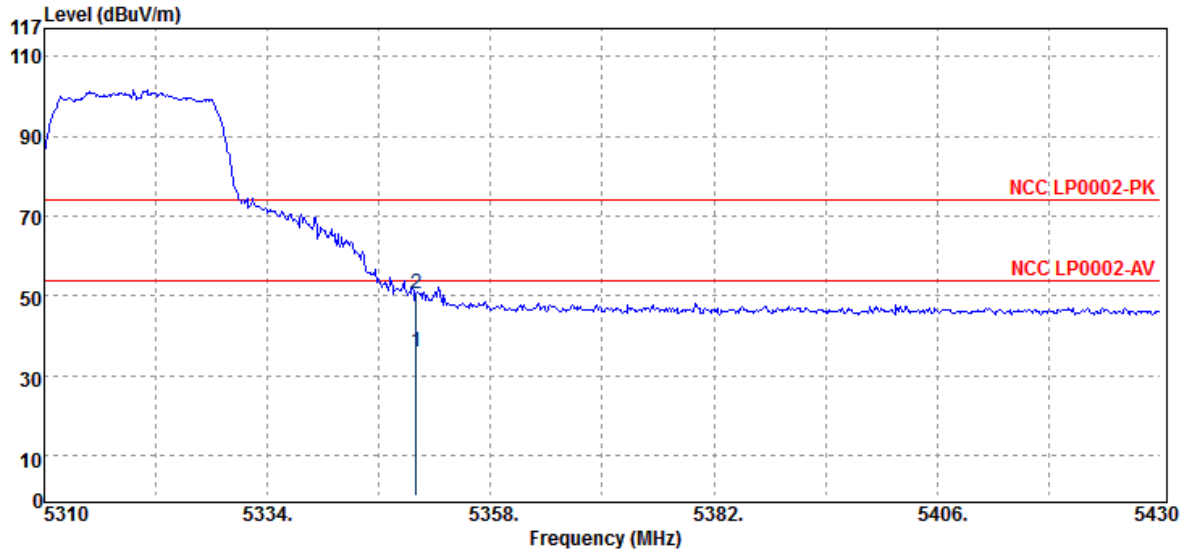
## *頻帶外發射輻射量測值 (802.11n HT20) (5250MHz-5350MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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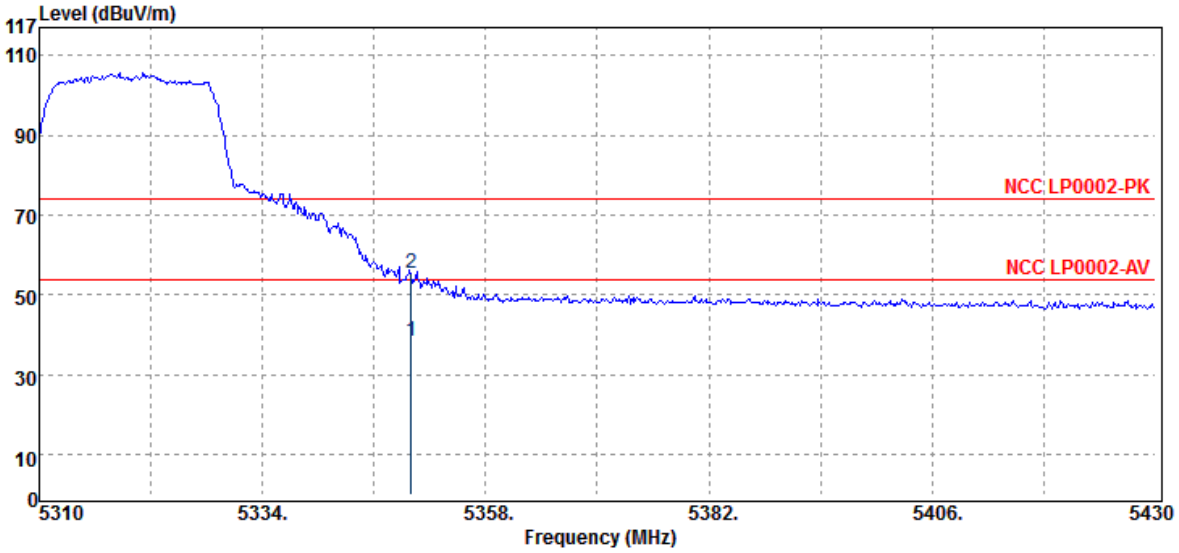
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B2 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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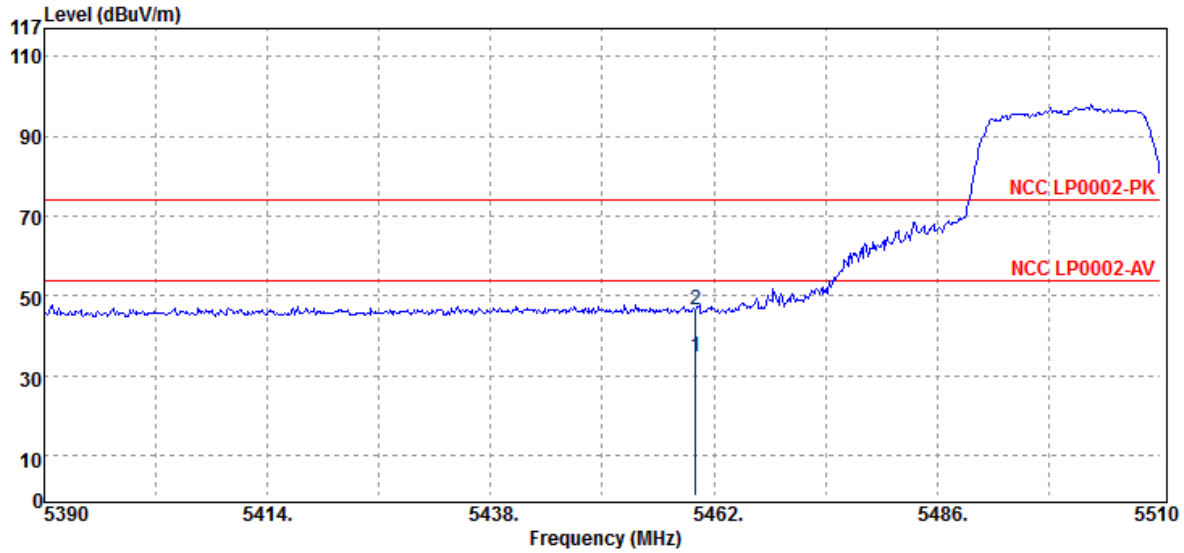
## *頻帶外發射輻射量測值 (802.11n HT20) (5470MHz-5725MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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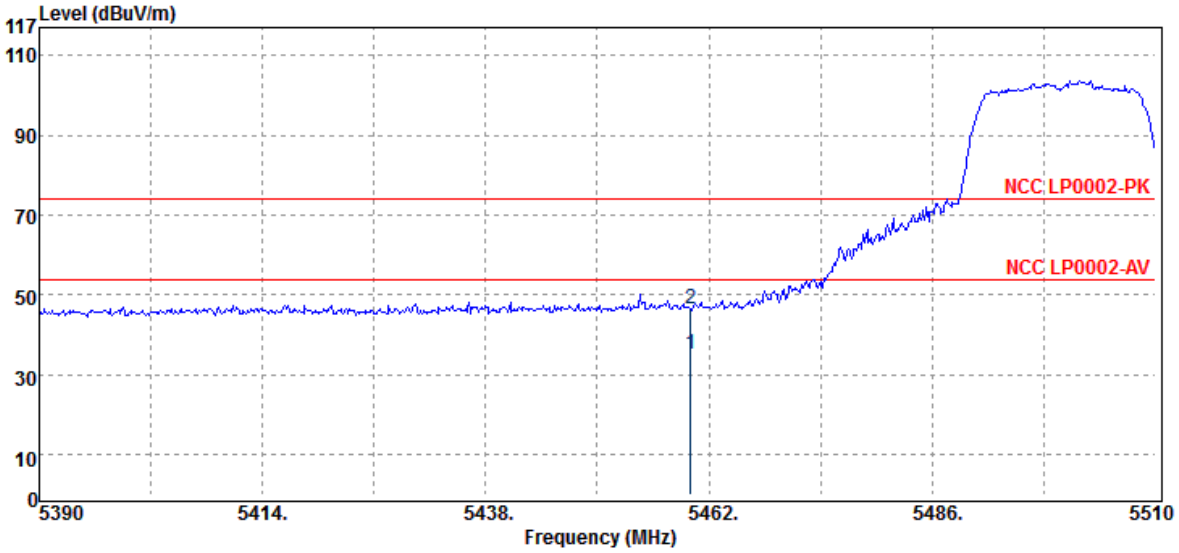
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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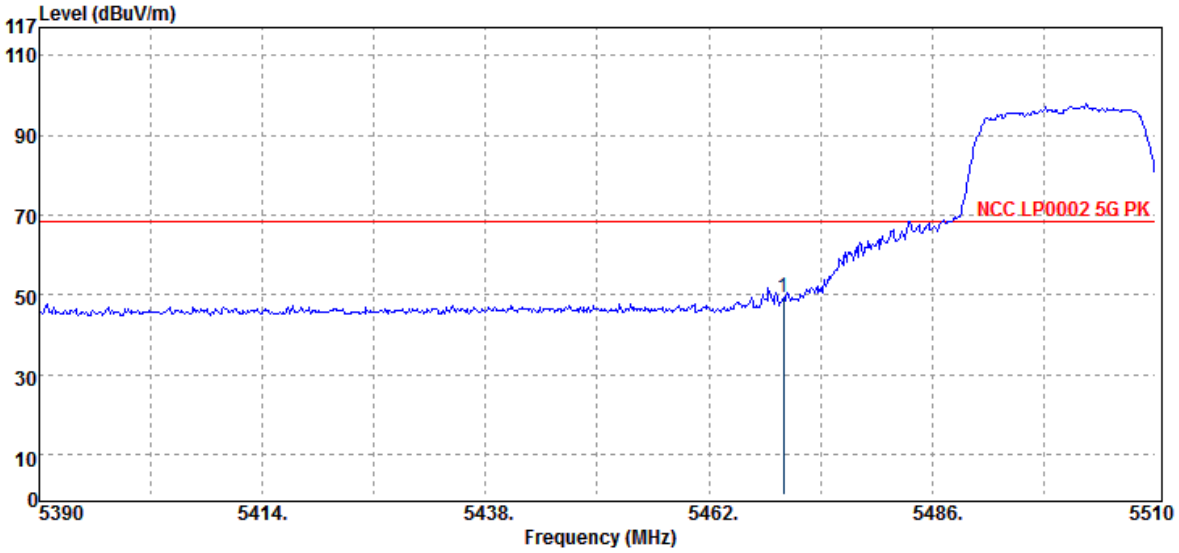
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




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

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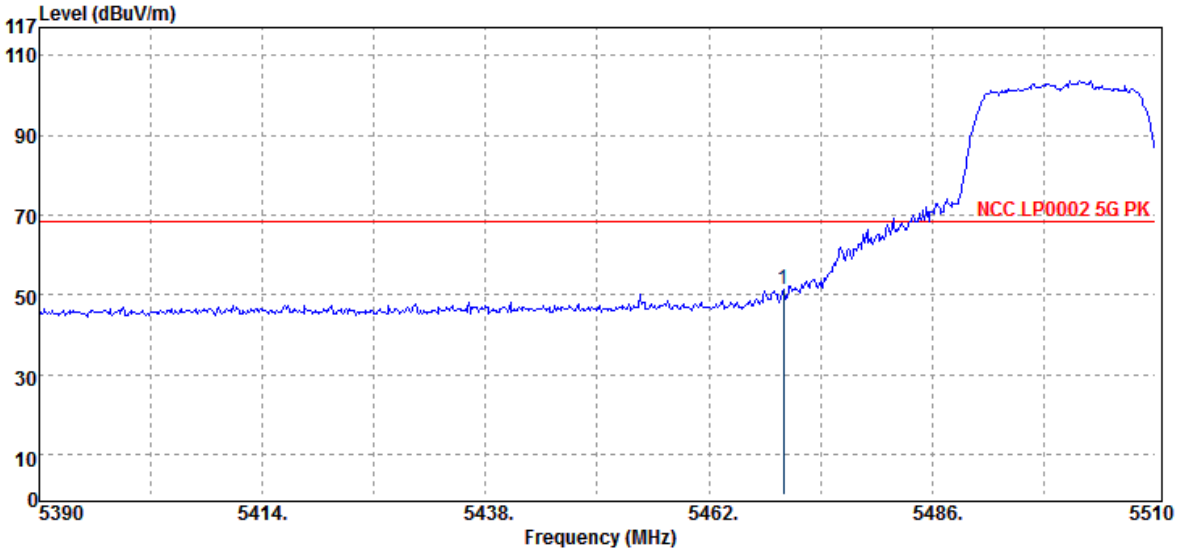
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




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

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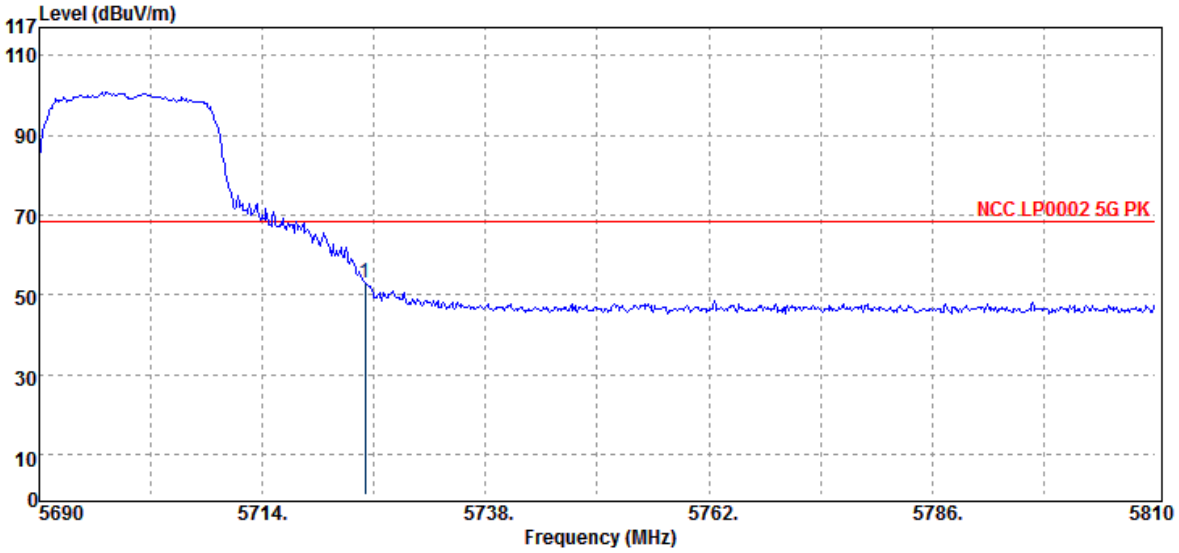
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




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

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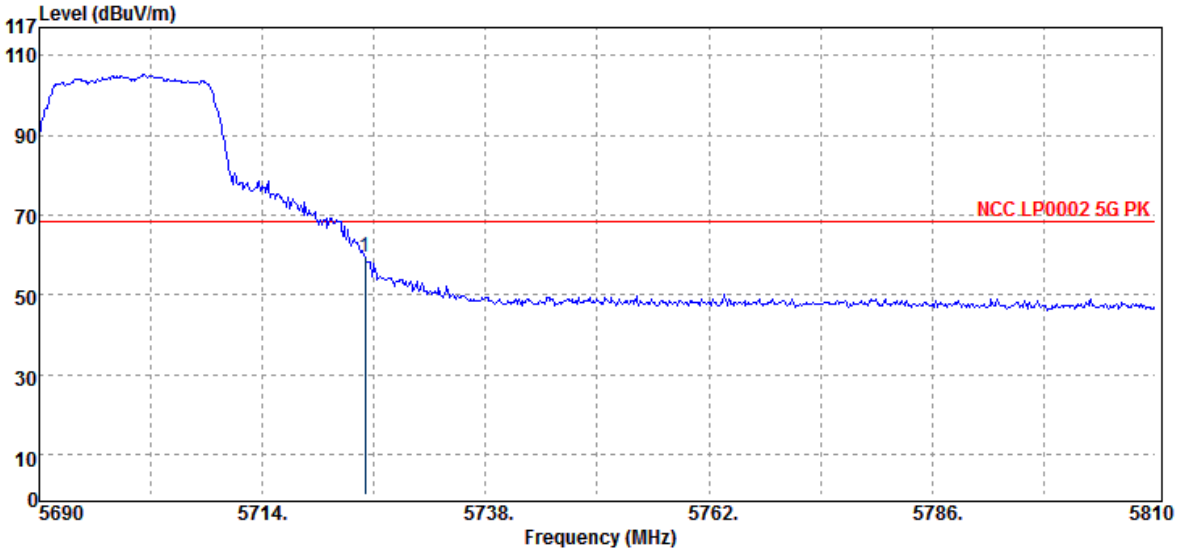
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B3 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




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

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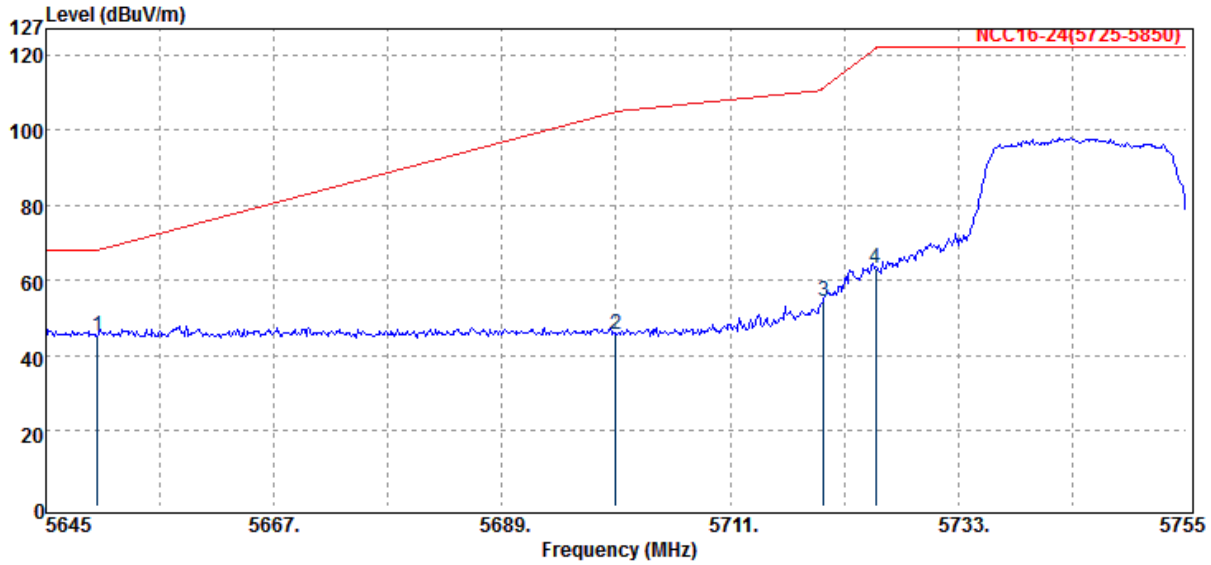
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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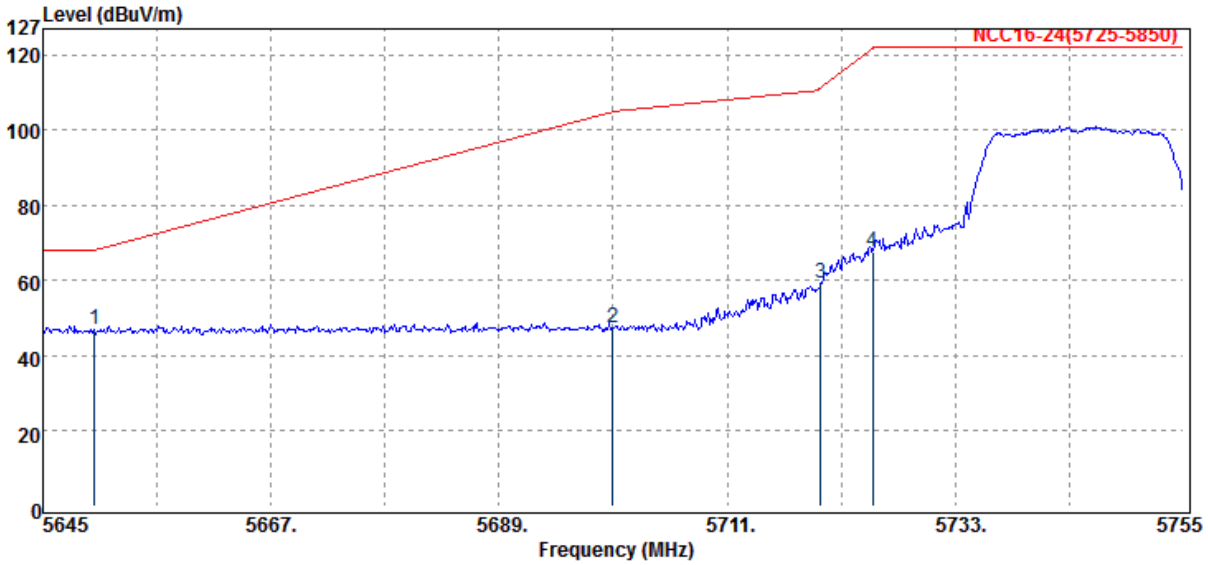
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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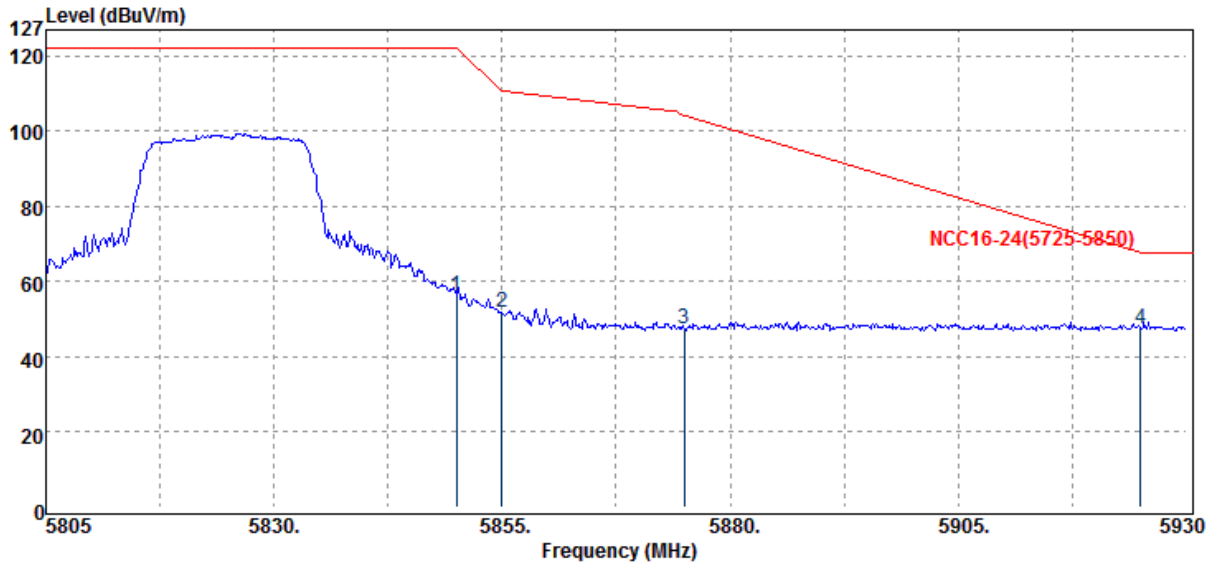
## *頻帶外發射輻射量測值 (802.11n HT20) (5725MHz-5850MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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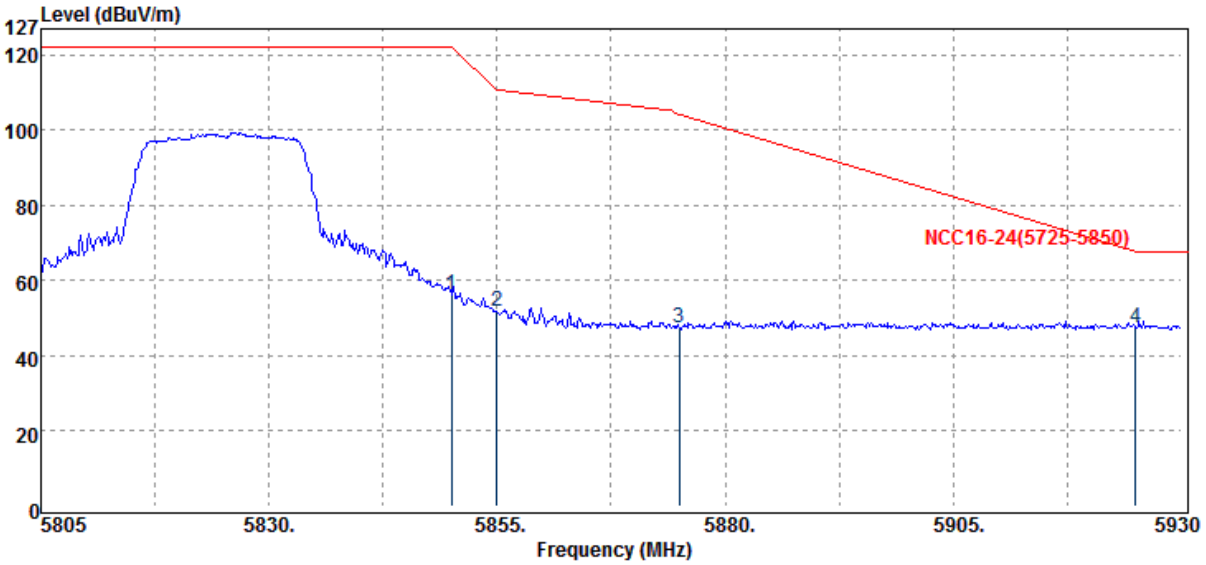
| | | | |
|---|---|---|---|
| Operation Band | :802.11n20B4 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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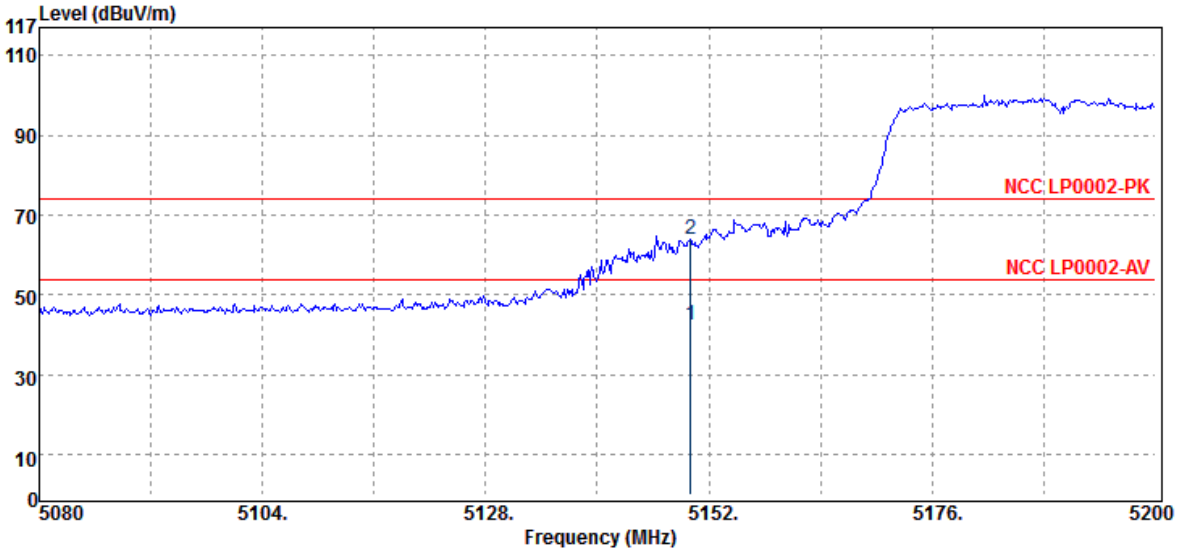
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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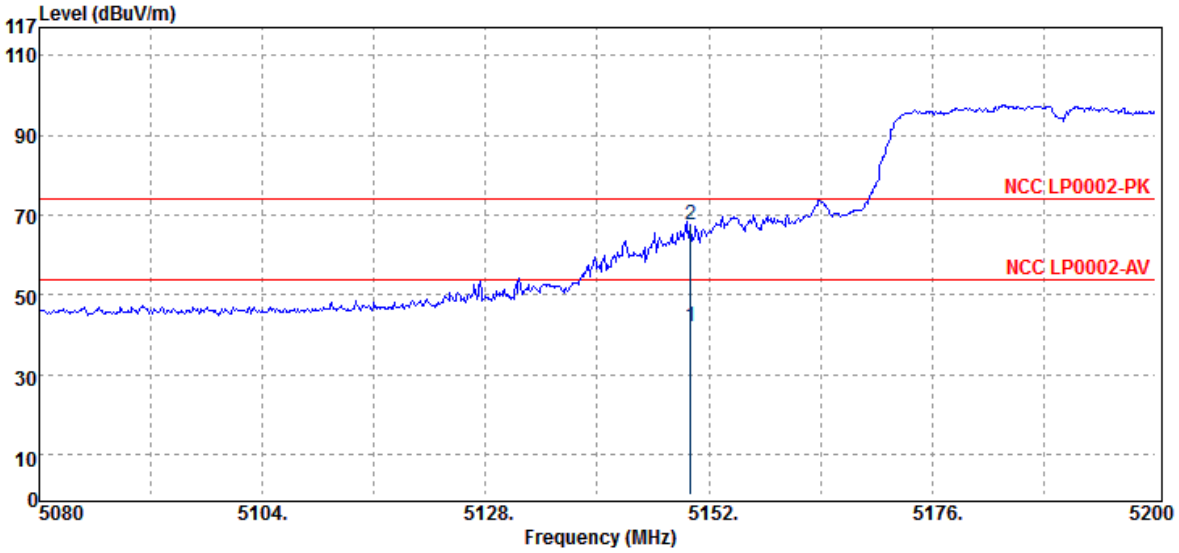
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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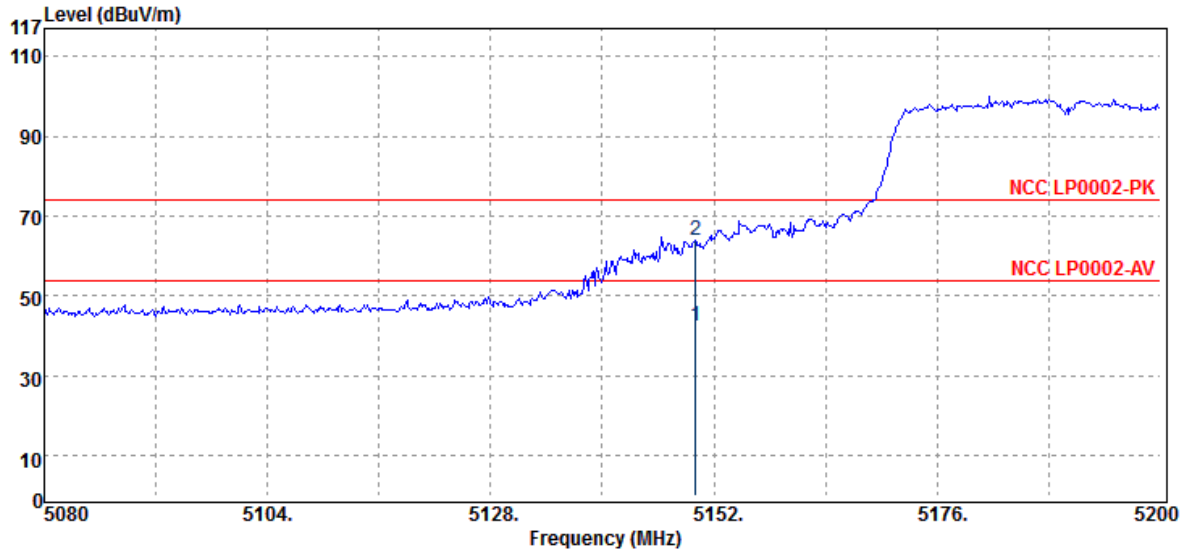
## *頻帶外發射輻射量測值 (802.11n HT40) (5180MHz-5240MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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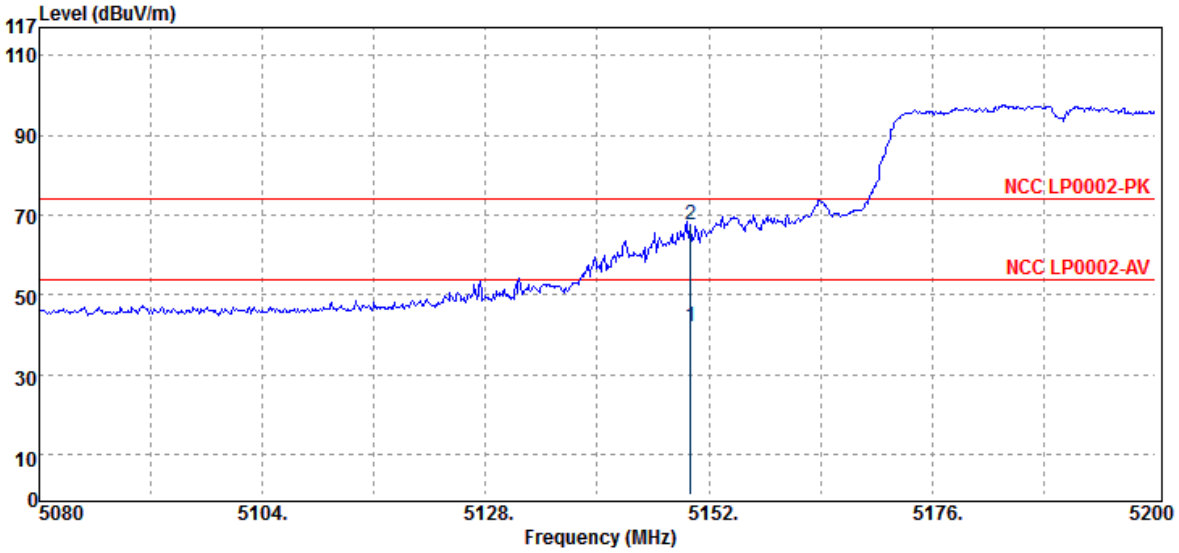
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B1 | Test Date | :2017-07-31 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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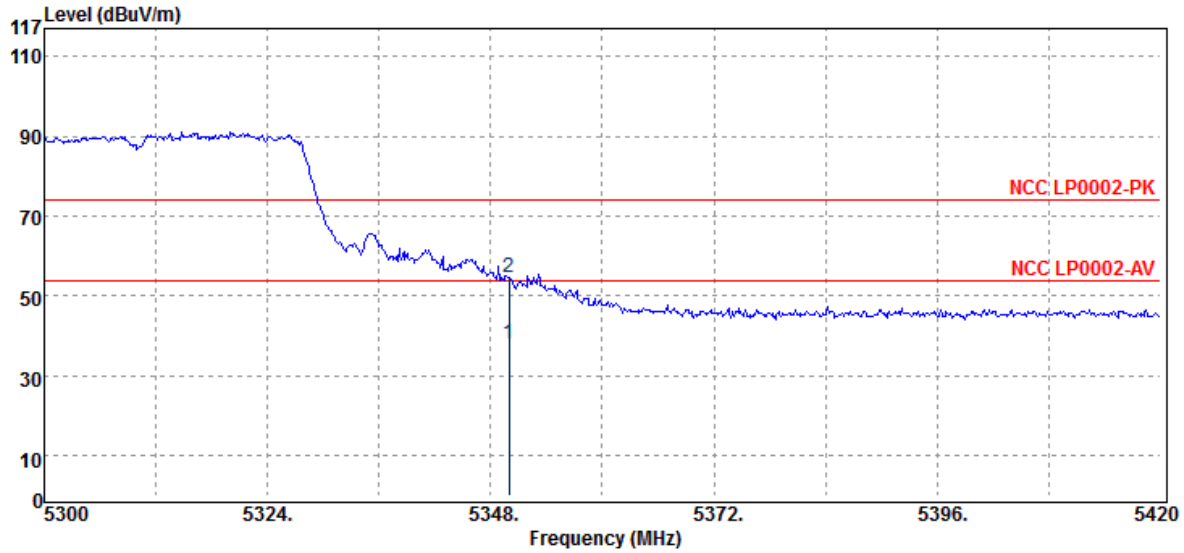
## *頻帶外發射輻射量測值 (802.11n HT40) (5250MHz-5350MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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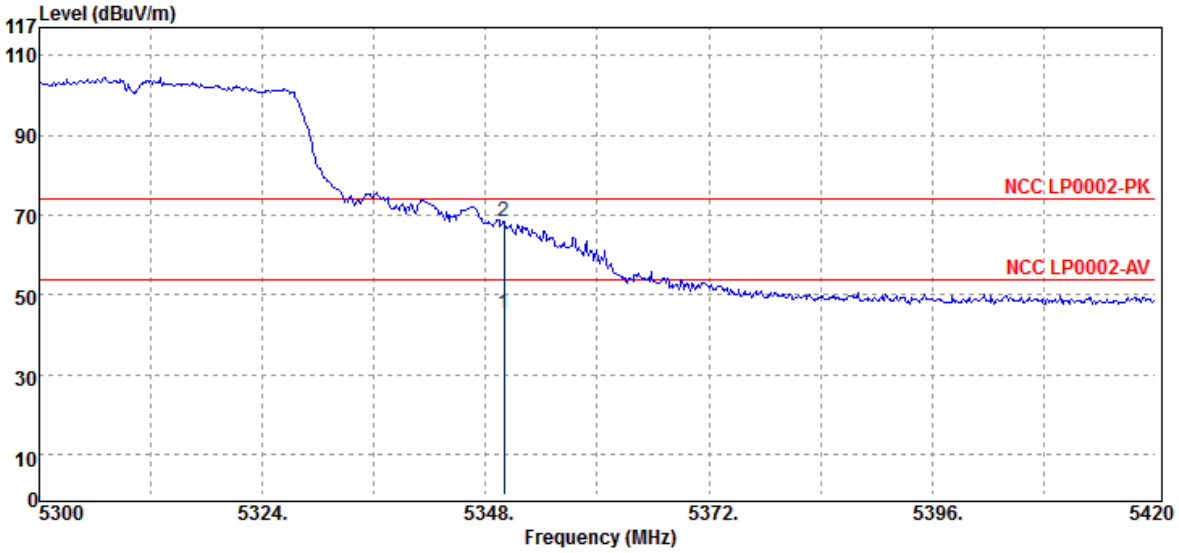
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B2 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5310 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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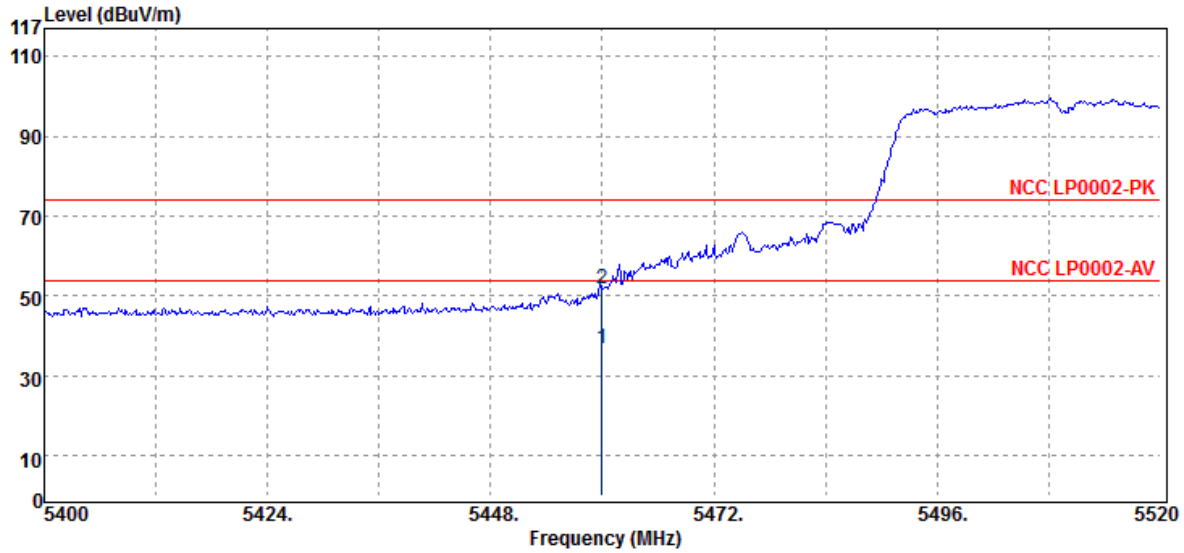
## *頻帶外發射輻射量測值 (802.11n HT40) (5470MHz-5725MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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 |

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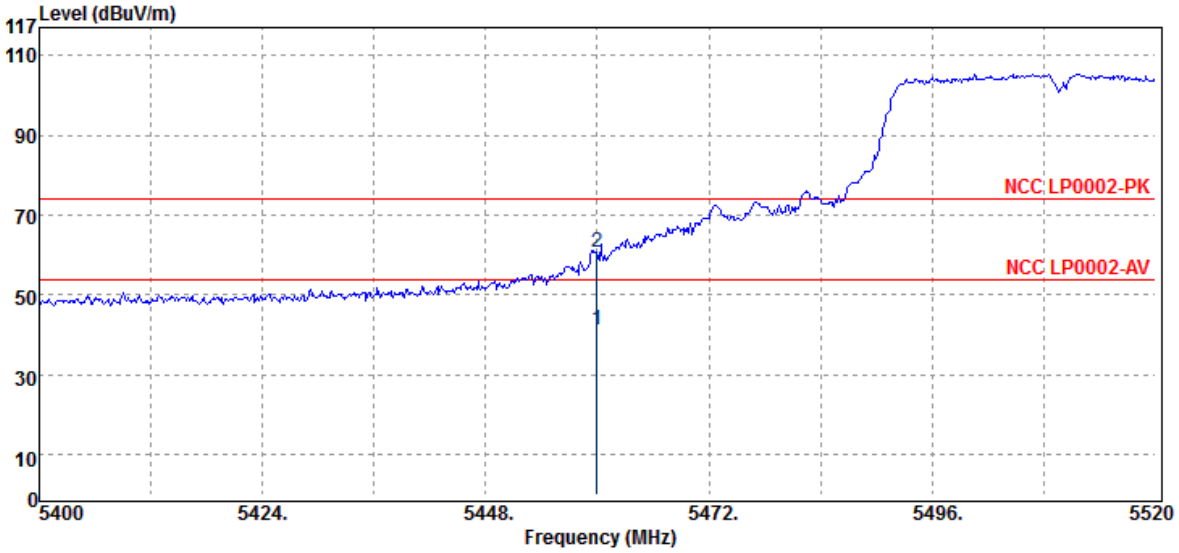
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B3 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5510 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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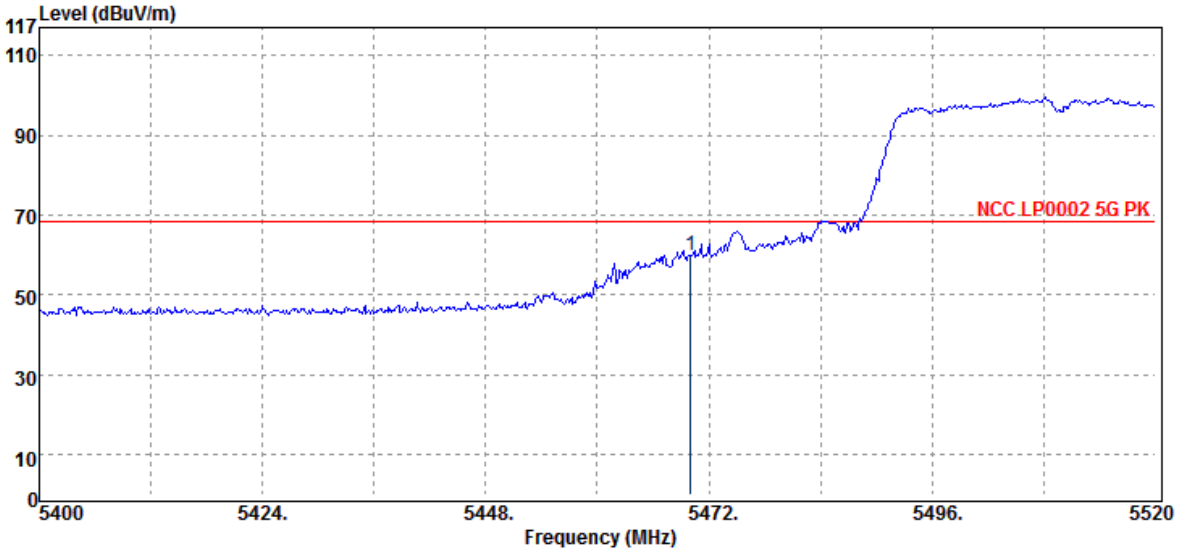
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B3 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5510 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




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

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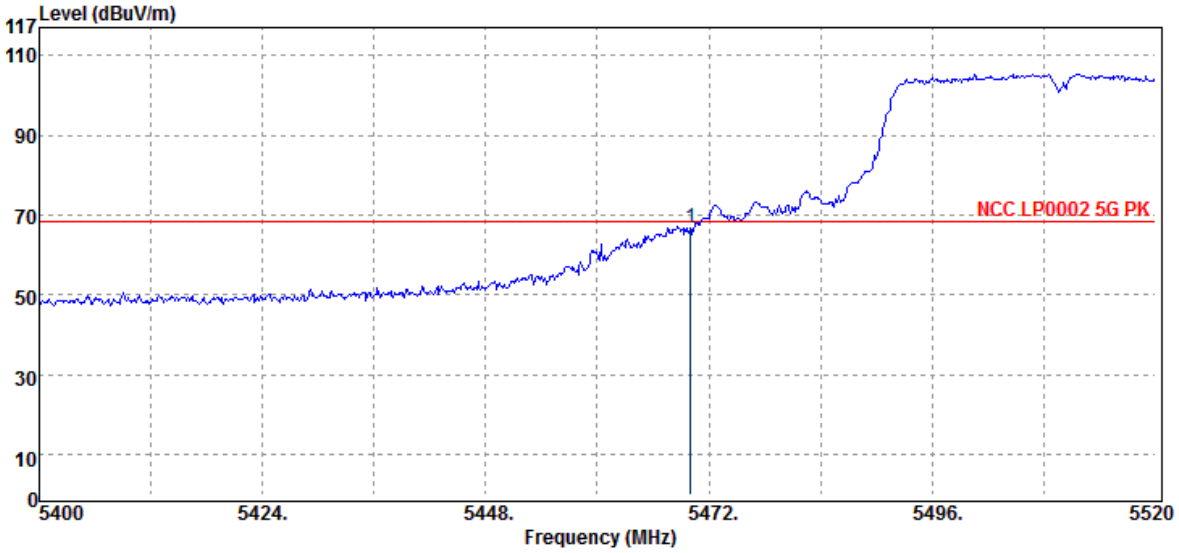
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B3 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5510 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




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

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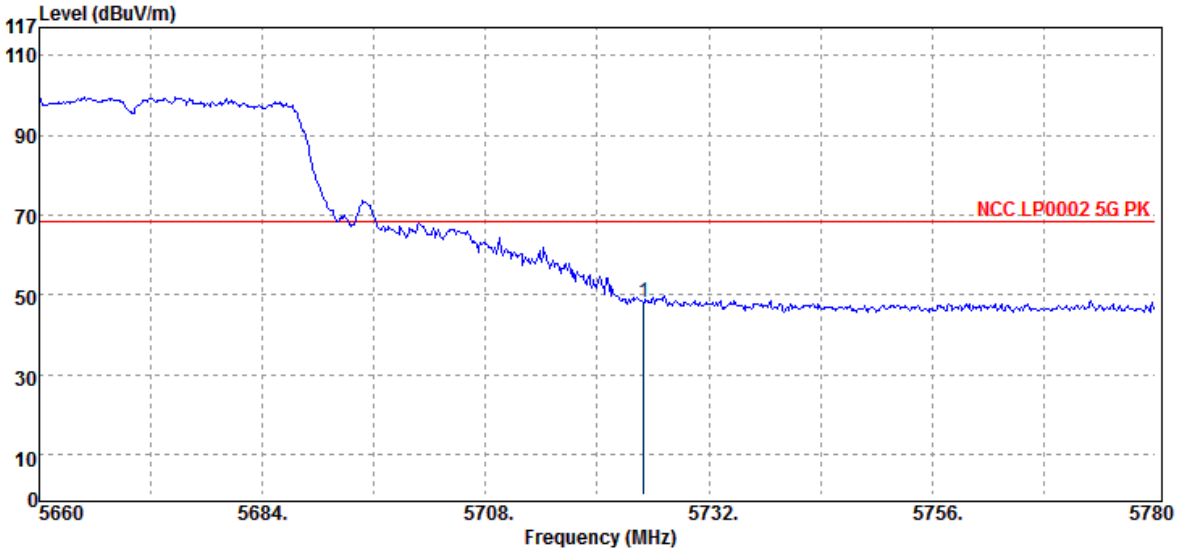
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B3 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5670 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




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

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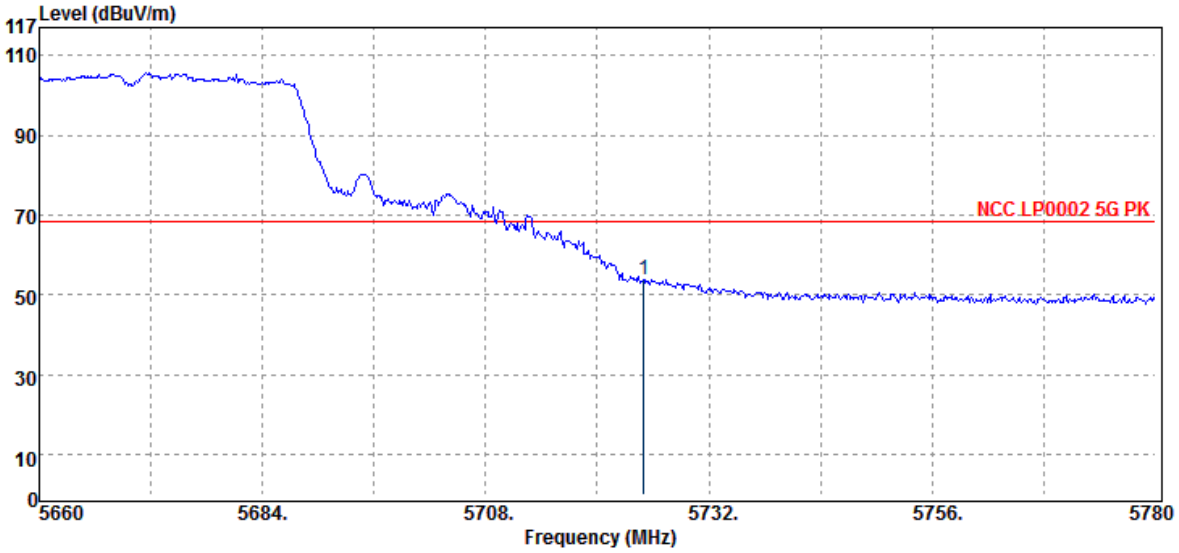
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B3 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5670 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




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

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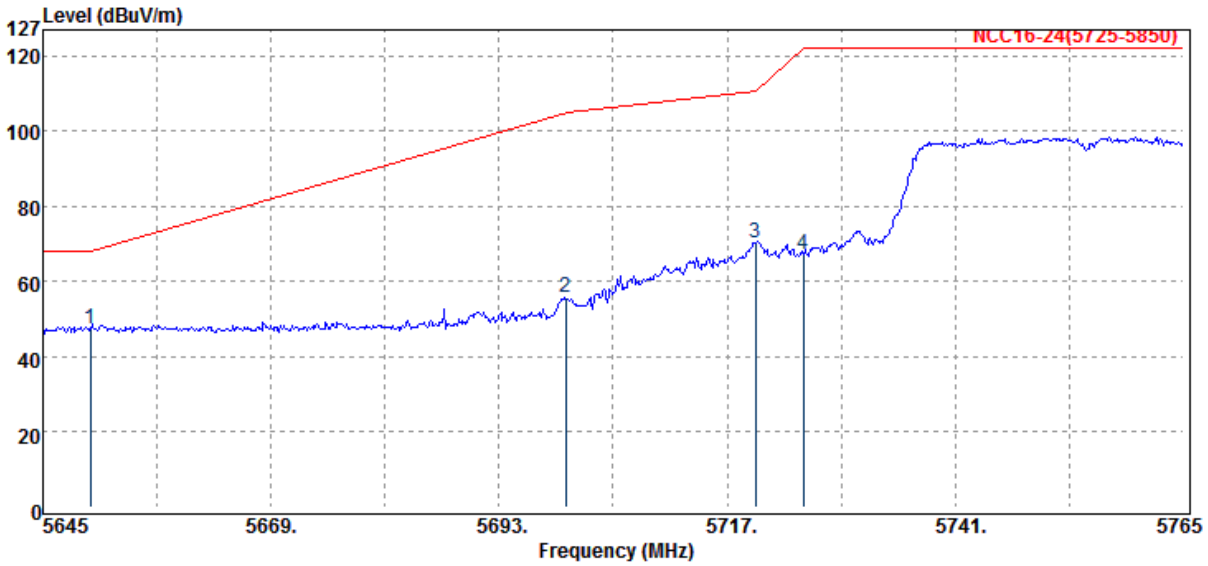
## *頻帶外發射輻射量測值 (802.11n HT40) (5725MHz-5850MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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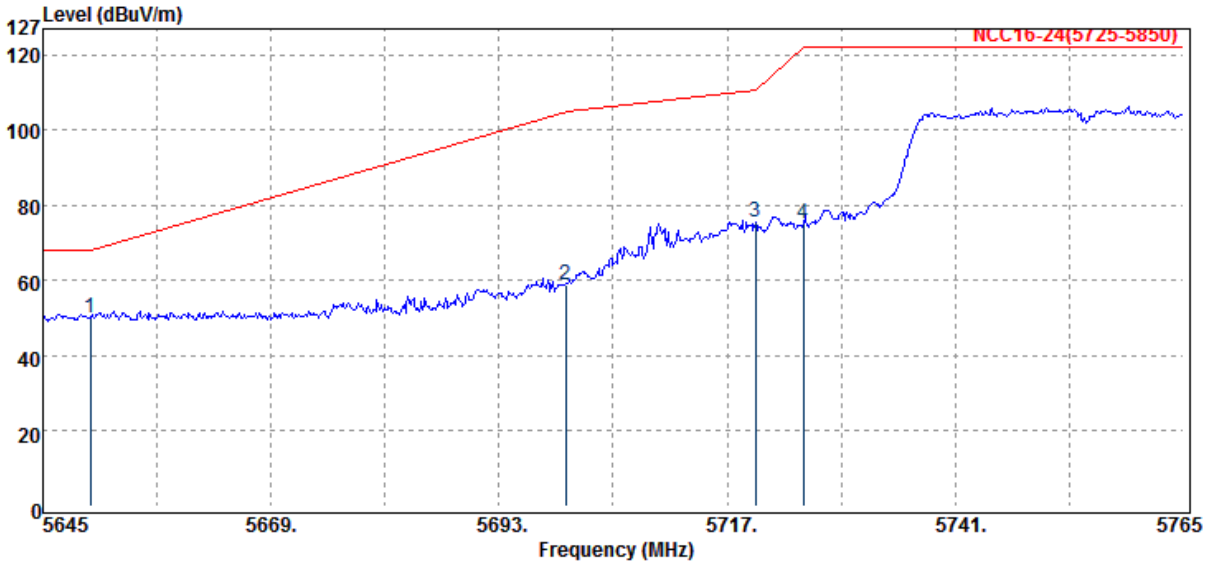
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B4 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5755 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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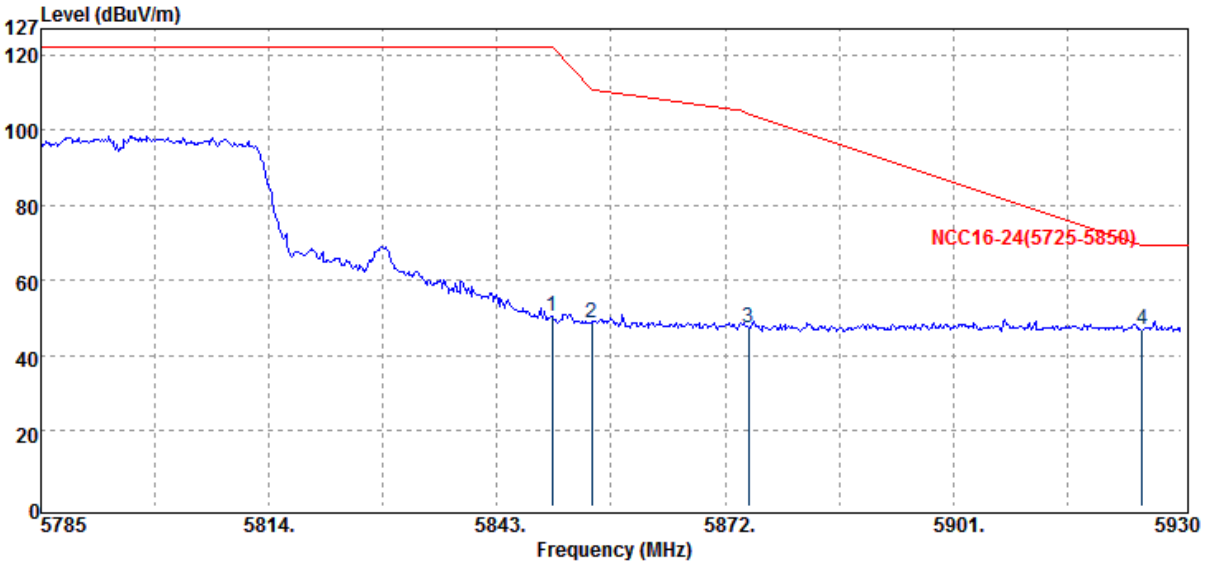
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B4 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5795 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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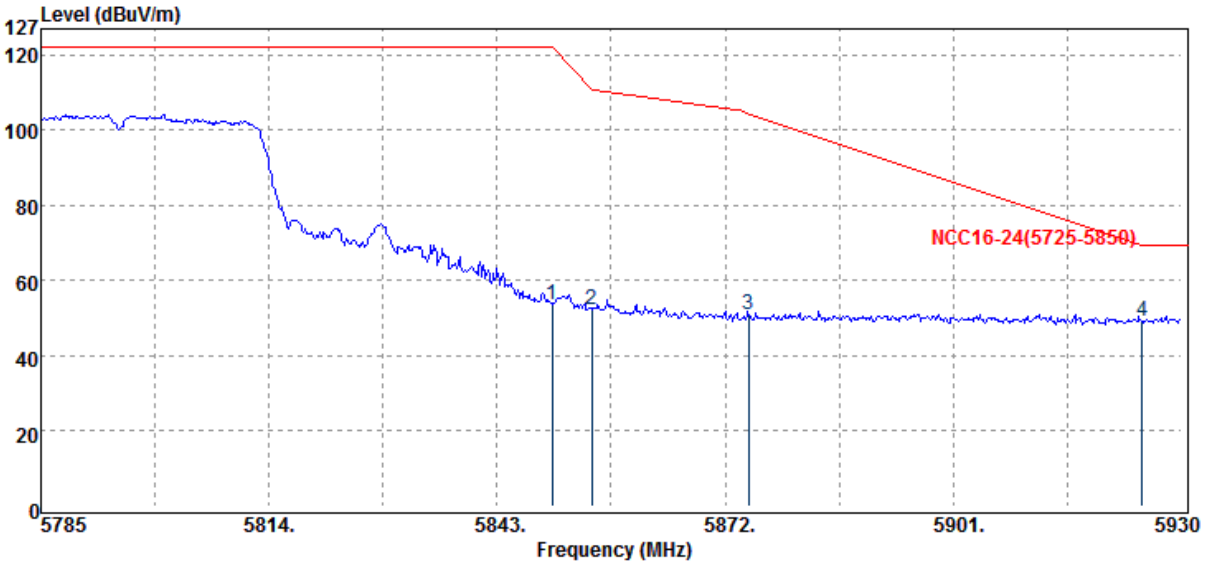
| | | | |
|---|---|---|---|
| Operation Band | :802.11n40B4 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5795 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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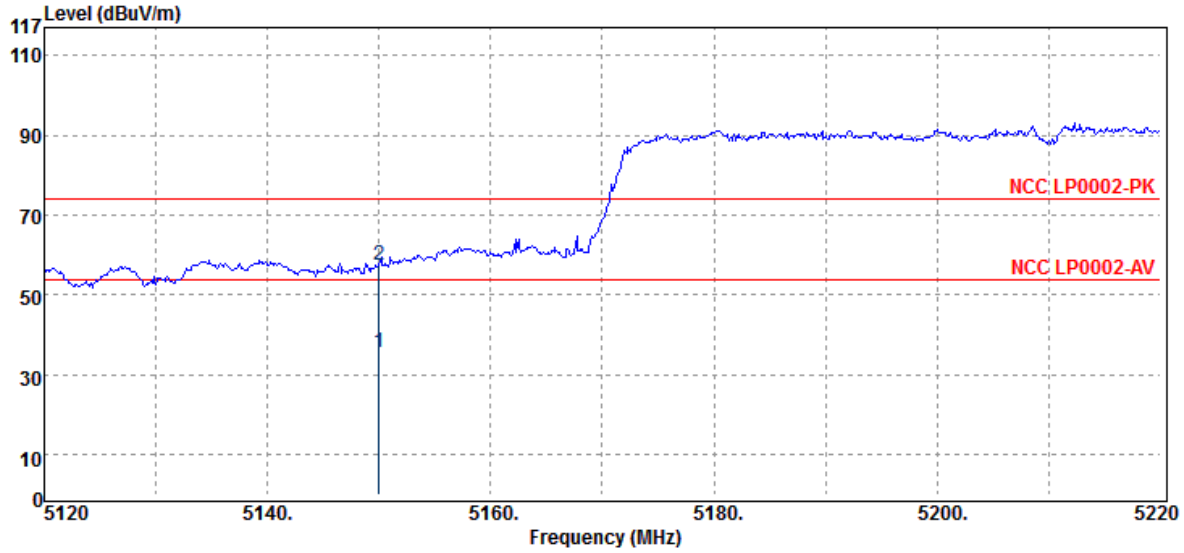
## *頻帶外發射輻射量測值 (802.11ac VHT80) (5150MHz-5250MHz)*

| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B1 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5210 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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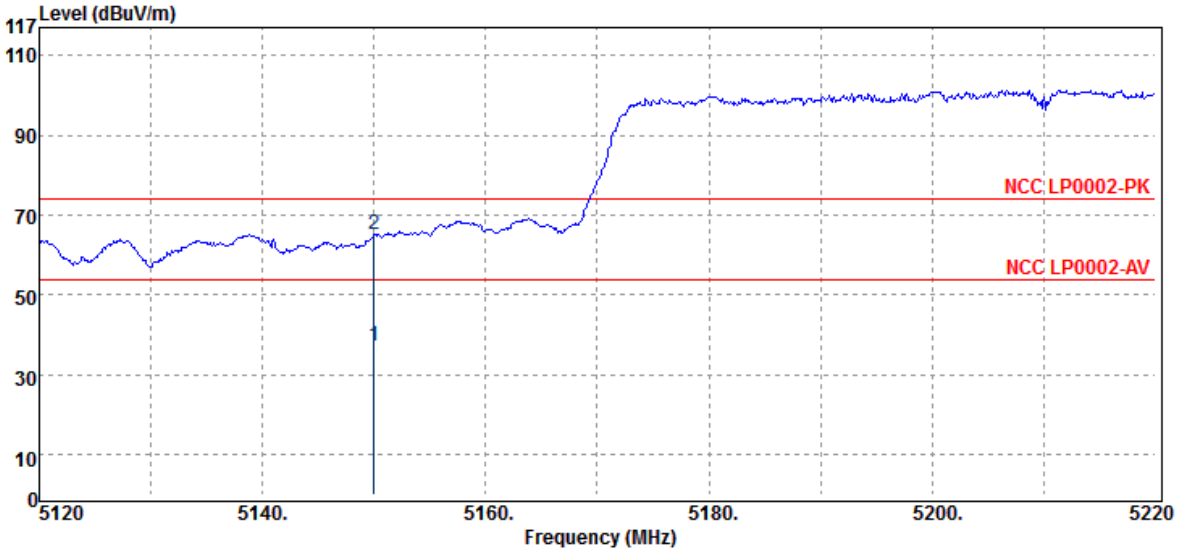
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B1 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5210 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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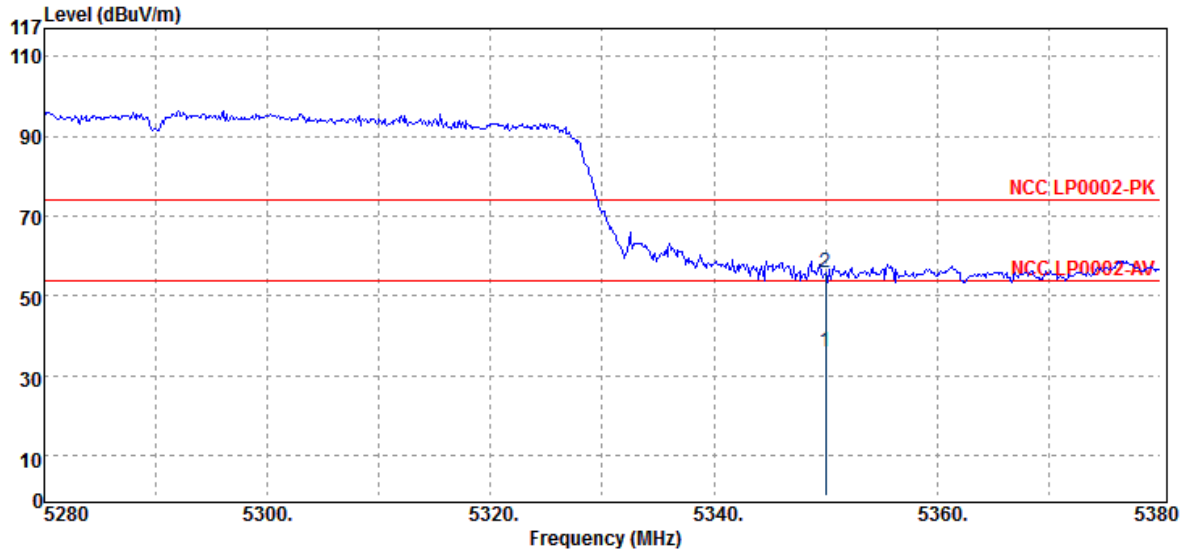
## *頻帶外發射輻射量測值 (802.11ac VHT80) (5250MHz-5350MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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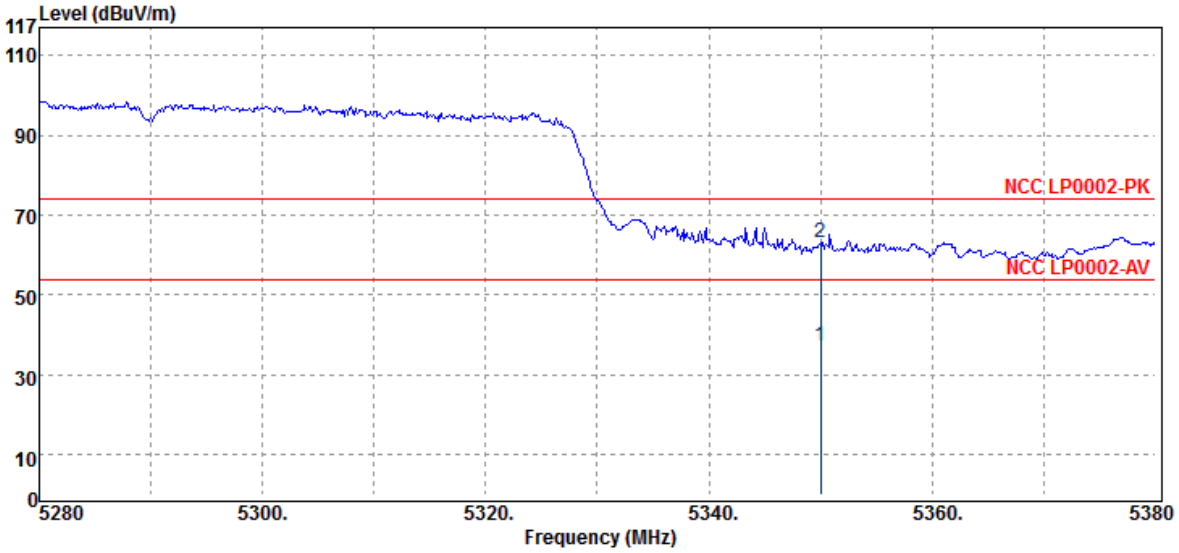
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B2 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5290 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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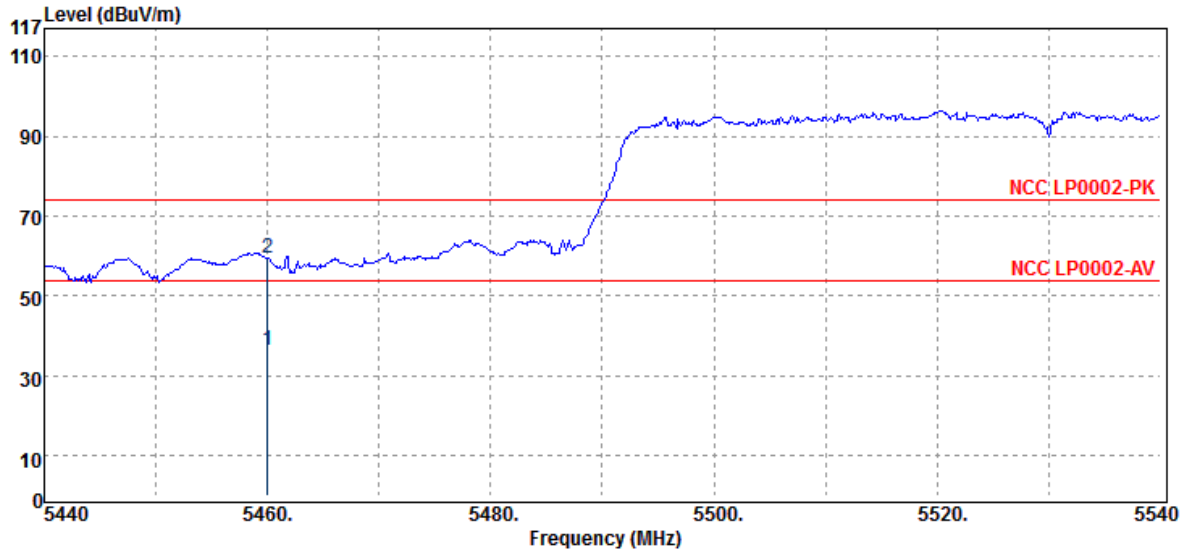
## *頻帶外發射輻射量測值 (802.11ac VHT80) (5470MHz-5725MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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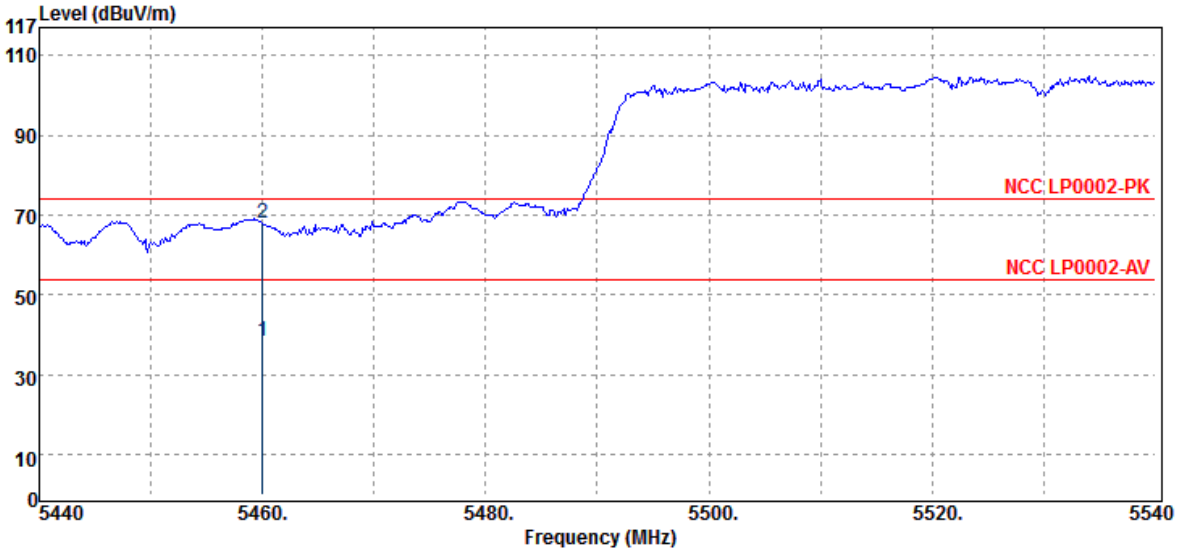
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B3 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5530 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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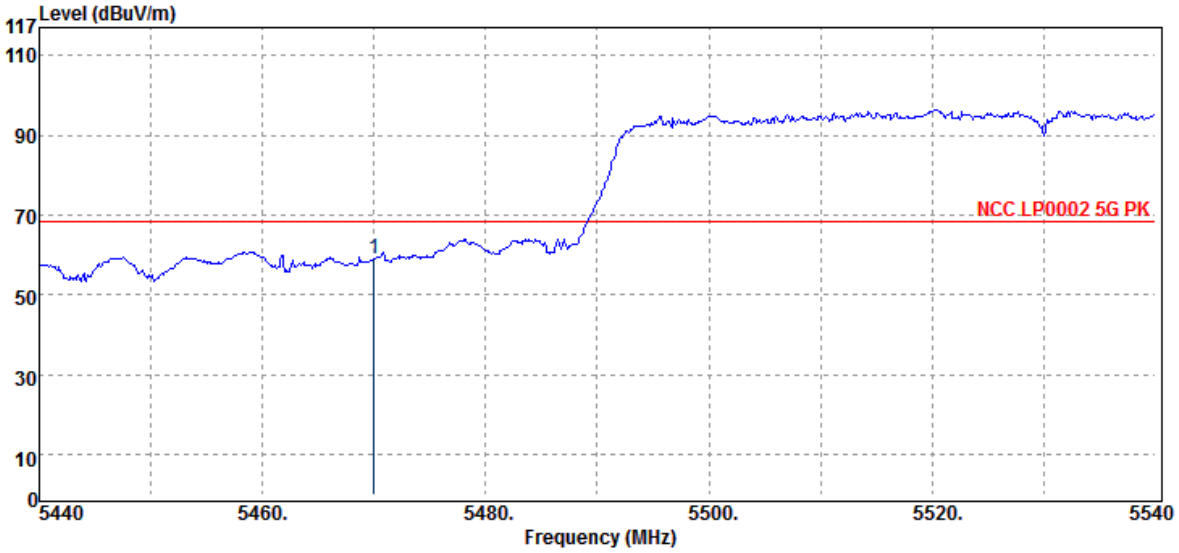
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B3 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5530 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




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

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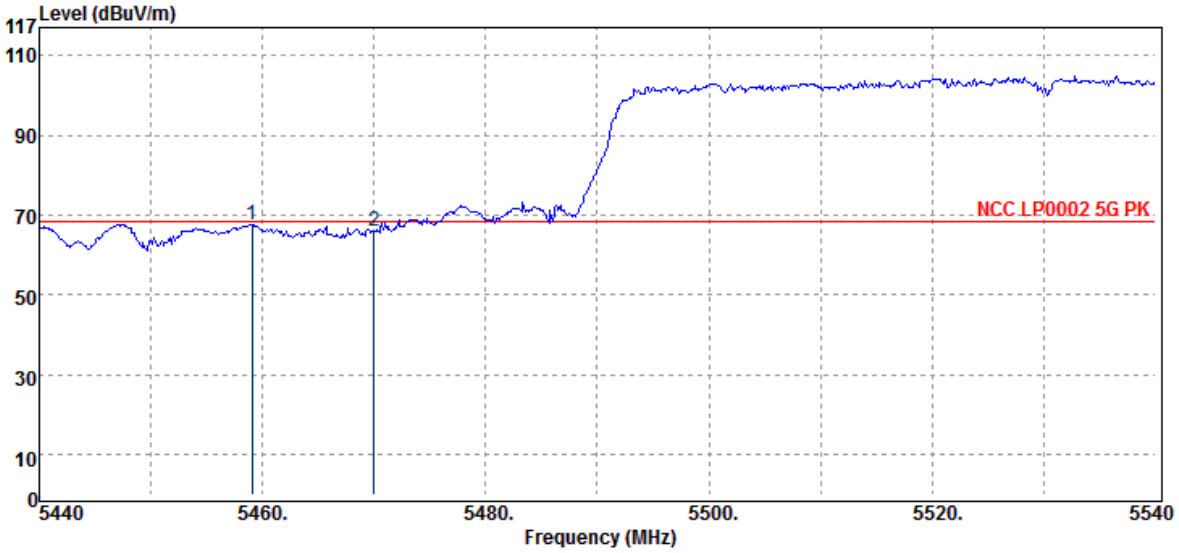
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B3 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5530 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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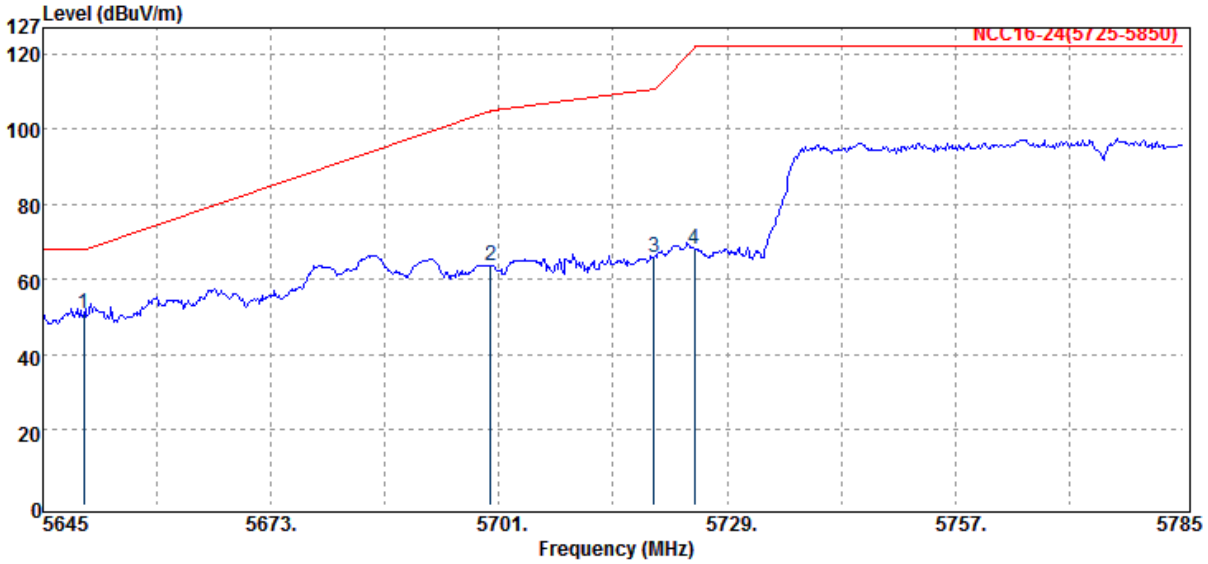
## *頻帶外發射輻射量測值 (802.11ac VHT80) (5725MHz-5850MHz)*

| | | | |
|---|---|---|---|
| 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 Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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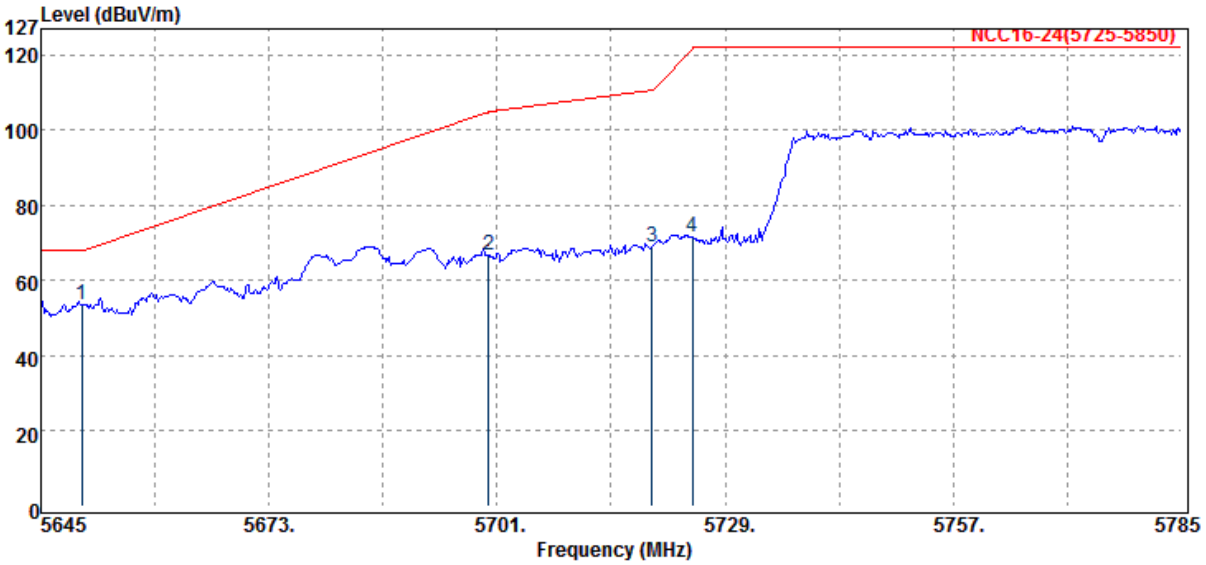
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B4 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5775 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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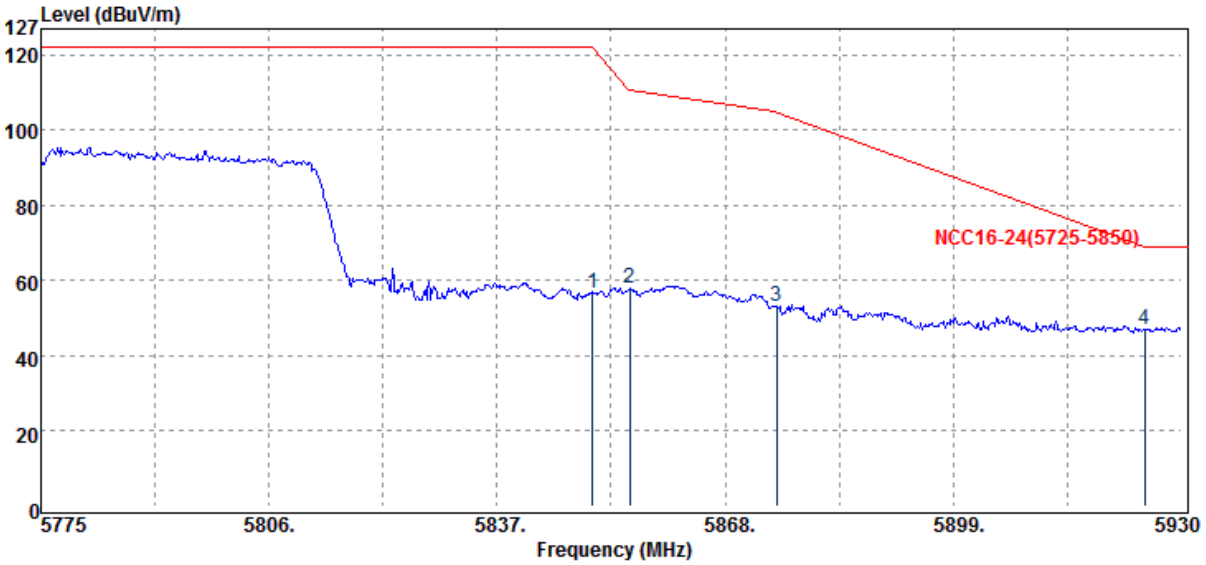
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B4 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5775 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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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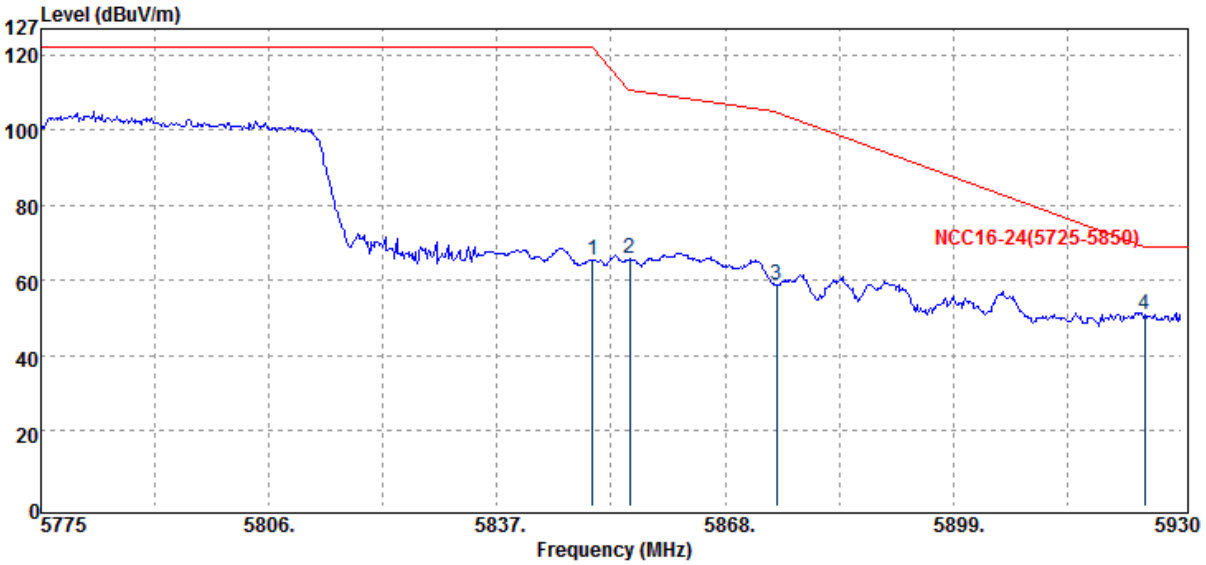
| | | | |
|---|---|---|---|
| Operation Band | :802.11ac80B4 | Test Date | :2017-08-01 |
| Fundamental Frequency | :5775 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH HIGH | Engineer | :Mike |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |




| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---|---|---|---|---|---|---|---|
| MHz | F/H/E/S | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 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.<br>ANT 0<br>3. Model No.: W-M-D-B-N-0-0100<br>5GHz Gain: 1.28dBi (5150MHz-5250MHz)<br>5GHz Gain: 1.28dBi (5250MHz-5350MHz)<br>5GHz Gain: 2.21dBi (5470MHz-5725MHz)<br>5GHz Gain: 1.01dBi (5725MHz-5850MHz)<br><br>4. Model No.: W-M-D-B-N-0-0390<br>5GHz Gain: 0.178dBi (5150MHz-5250MHz)<br>5GHz Gain: 0.178dBi (5250MHz-5350MHz)<br>5GHz Gain: 1.108dBi (5470MHz-5725MHz)<br>5GHz Gain: -0.092dBi (5725MHz-5850MHz)<br><br>ANT 1<br>3. Model No.: W-M-D-B-N-0-0100<br>5GHz Gain:1.28dBi (5150MHz-5250MHz)<br>5GHz Gain: 1.28dBi (5250MHz-5350MHz)<br>5GHz Gain: 2.21dBi (5470MHz-5725MHz)<br>5GHz Gain: 1.01dBi (5725MHz-5850MHz)<br><br>4. Model No.: W-M-D-B-N-1-0260<br>5GHz Gain: 0.672dBi (5150MHz-5250MHz)<br>5GHz Gain: 0.672dBi (5250MHz-5350MHz)<br>5GHz Gain: 1.602dBi (5470MHz-5725MHz)<br>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。

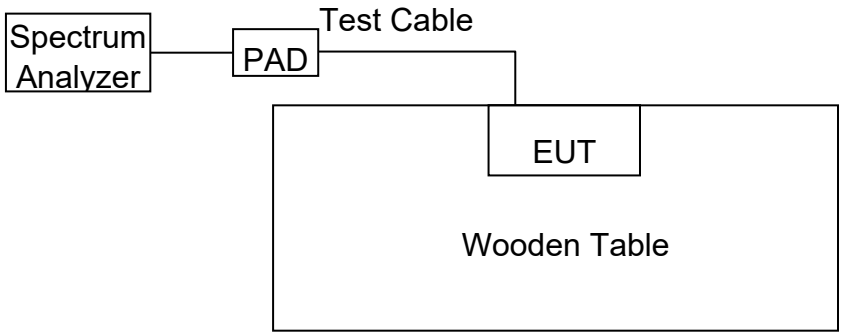
解析頻寬小於(1)或(2)時，應以補償方式計算總功率頻譜密度。

## 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>=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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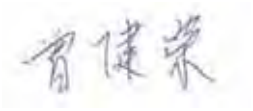
## 8.4 量測結果

| | | | |
|---|---|---|---|
| 測試設備: | 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module | 型號: | WBU034-EA |
| 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℃ | 環境濕度: | 60% |
| 測試者: |  | | |

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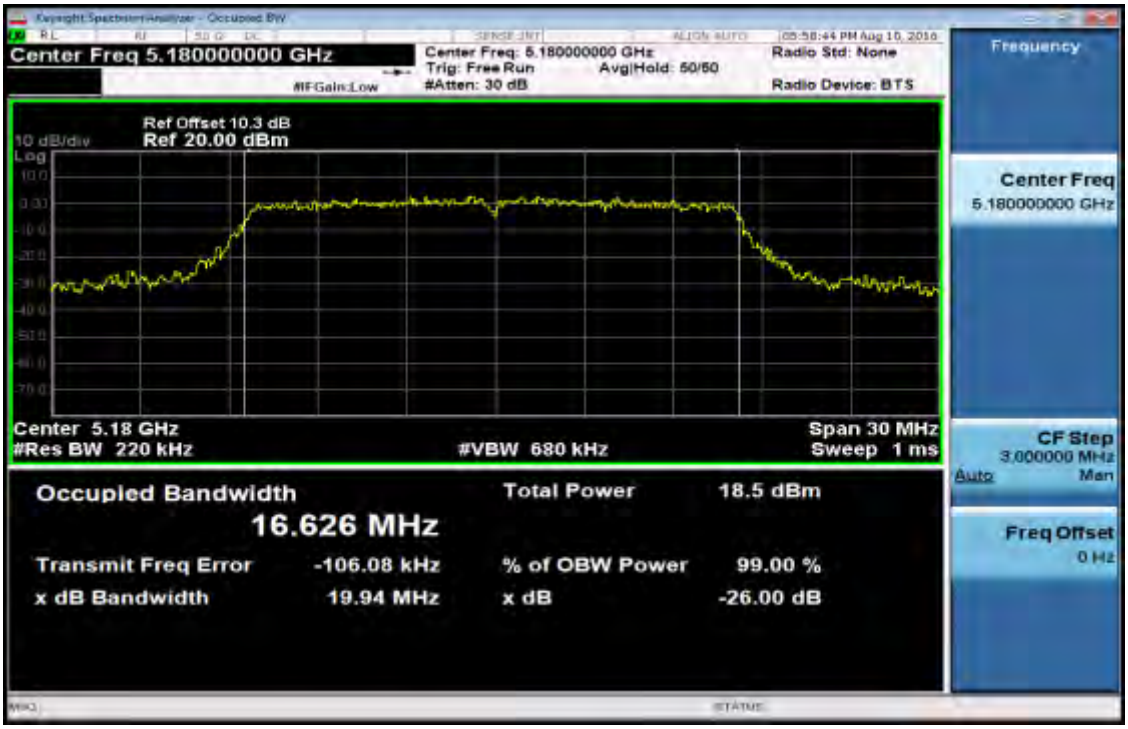
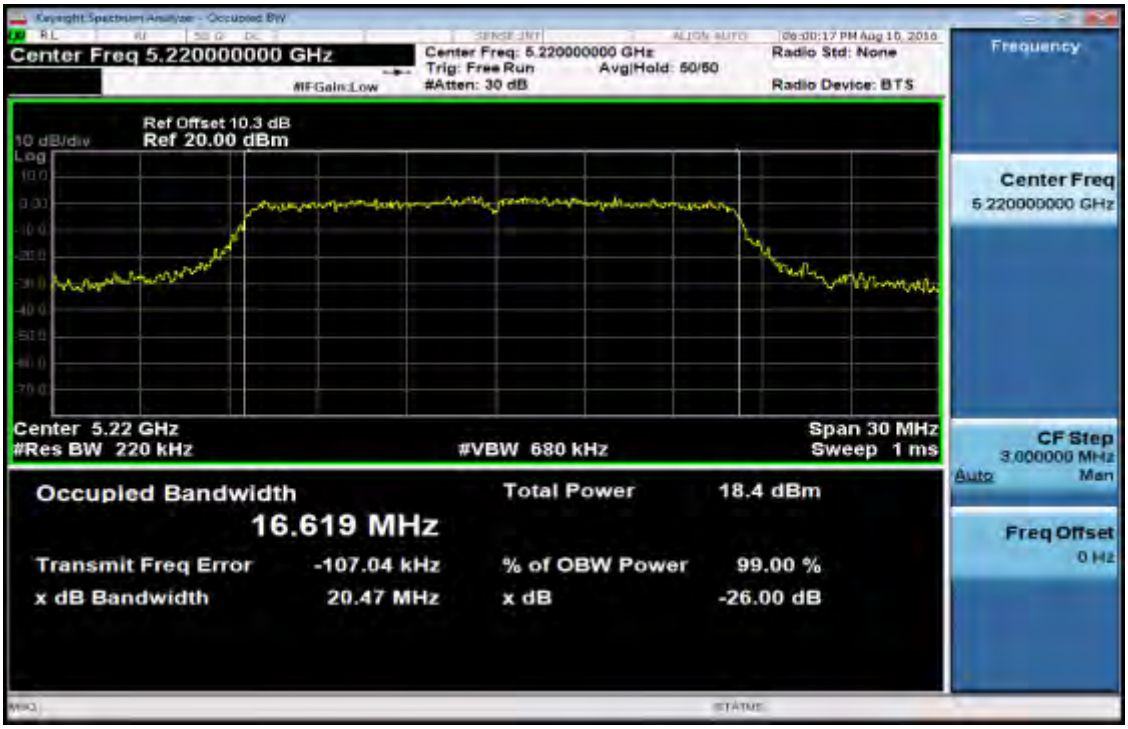
# 802.11a Mode Test Data Plot (5150MHz-5250MHz) (Main)

## CH Low 發射頻寬量測值




## CH Mid 發射頻寬量測值

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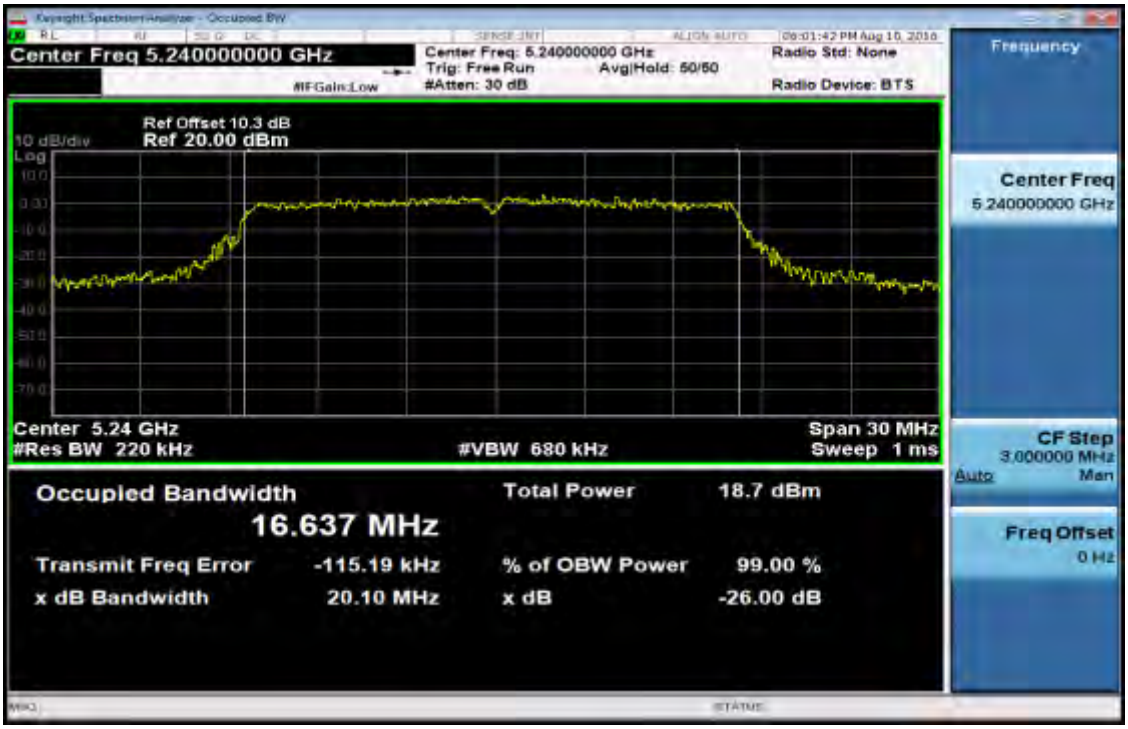
## CH High 發射頻寬量測值

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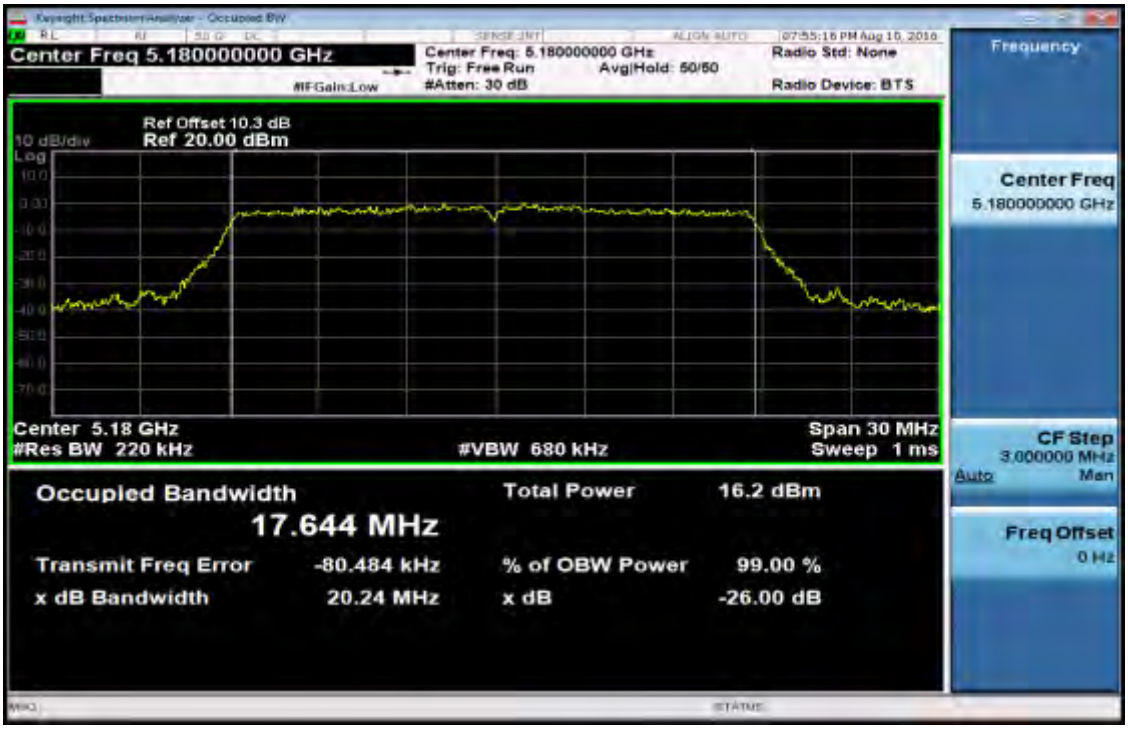
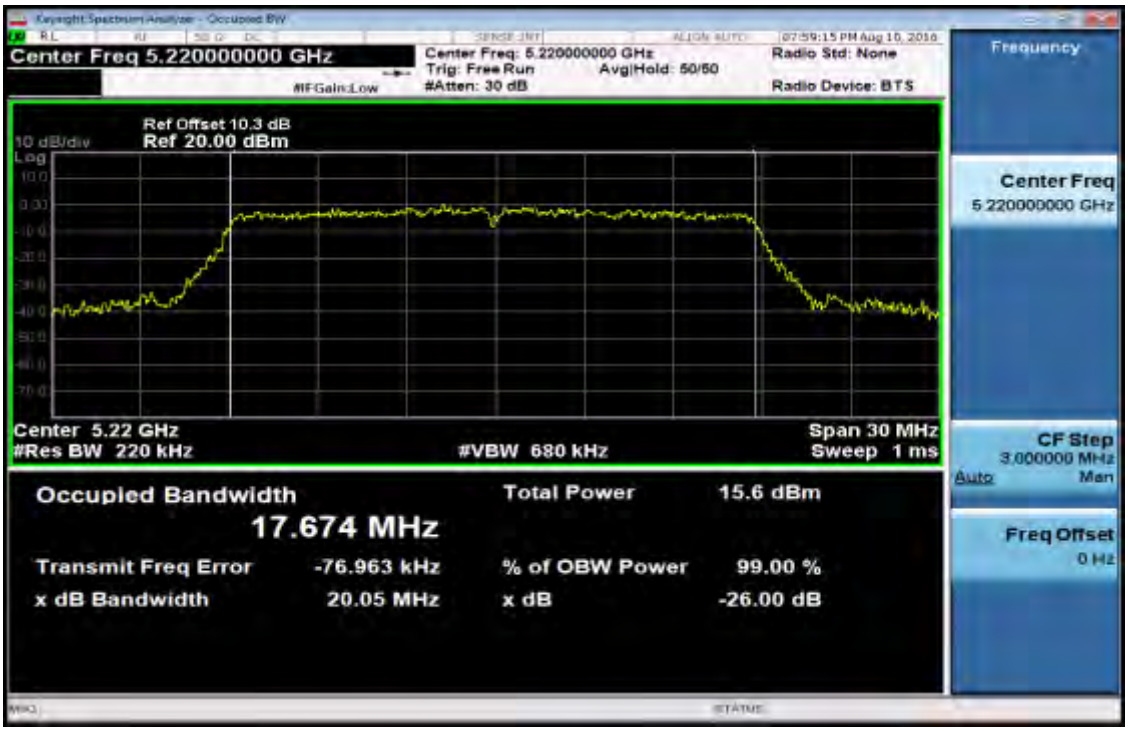
## 802.11n HT20 Mode Test Data Plot (5150MHz-5250MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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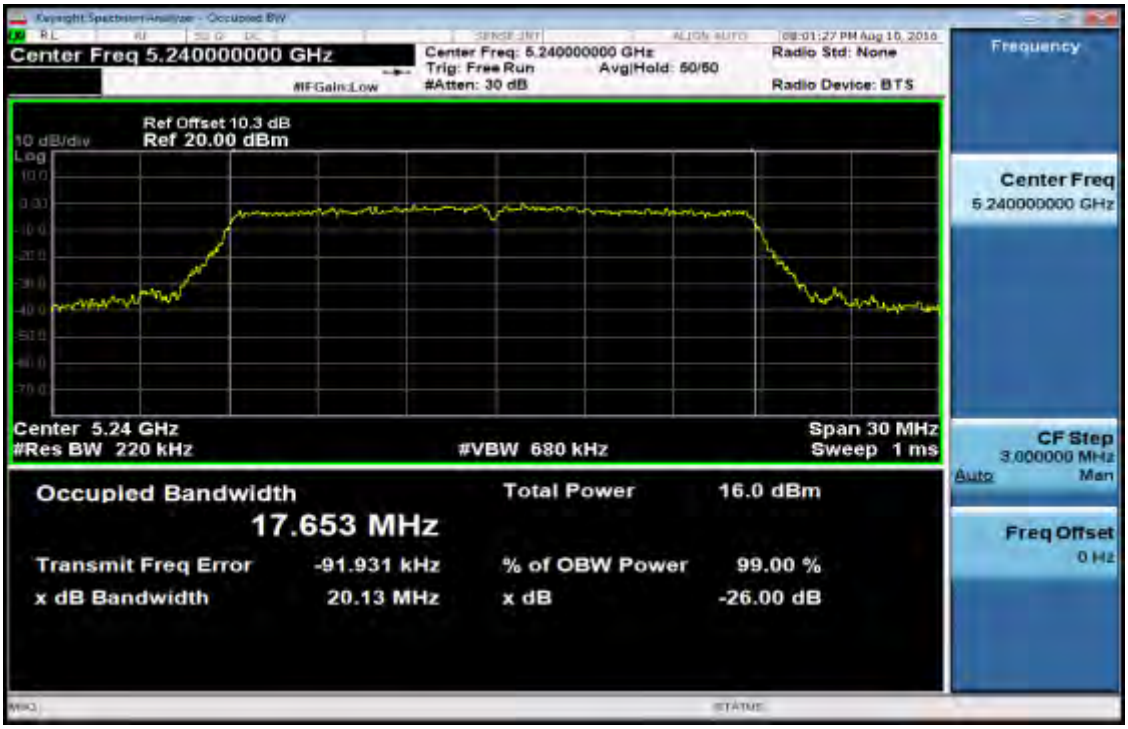
## CH High 發射頻寬量測值

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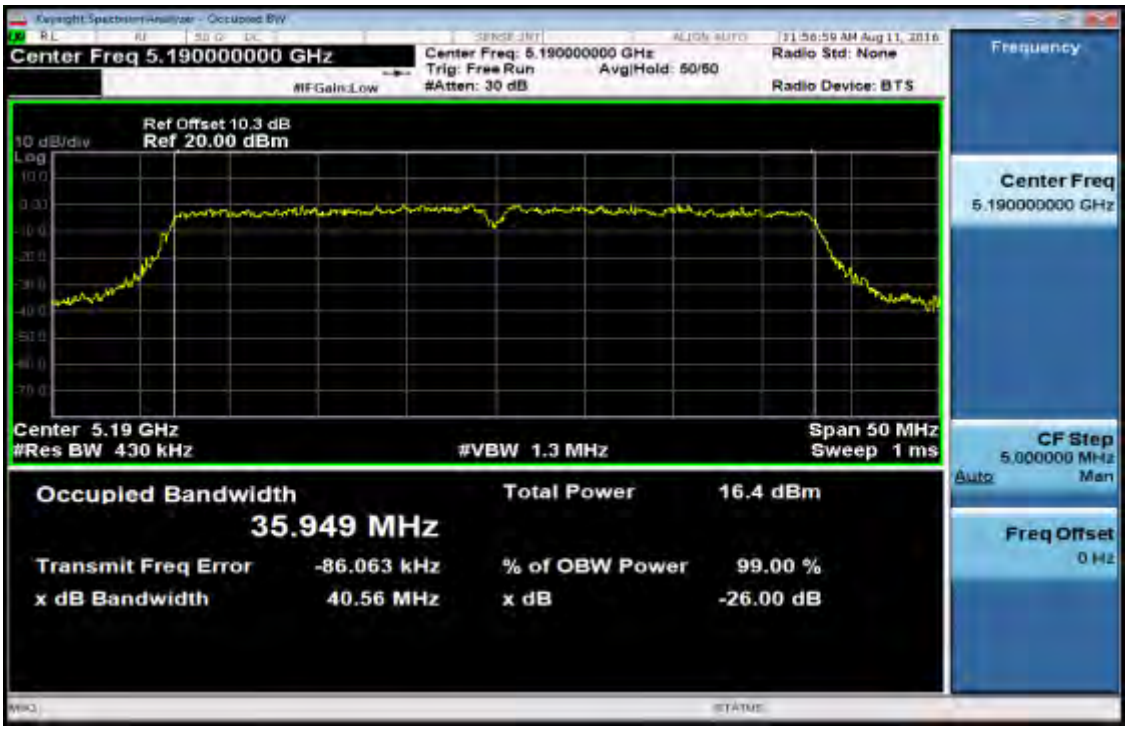
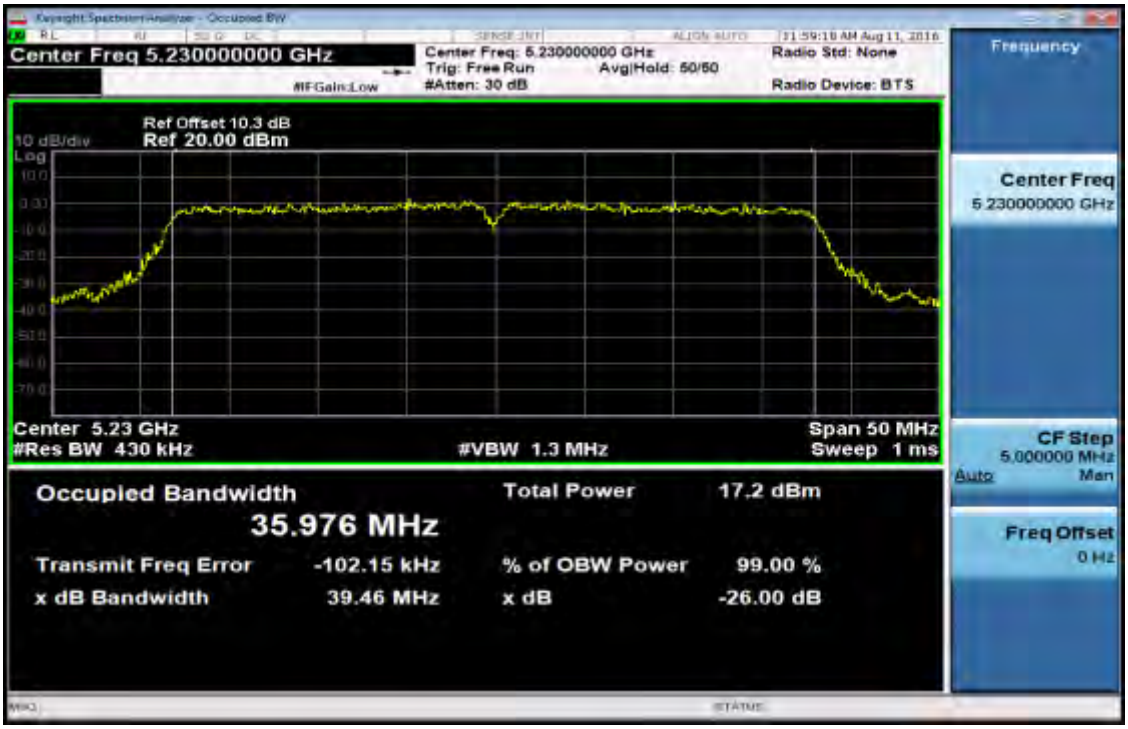
## 802.11n HT40 Mode Test Data Plot (5150MHz-5250MHz)

### CH Low 發射頻寬量測值




### CH High 發射頻寬量測值

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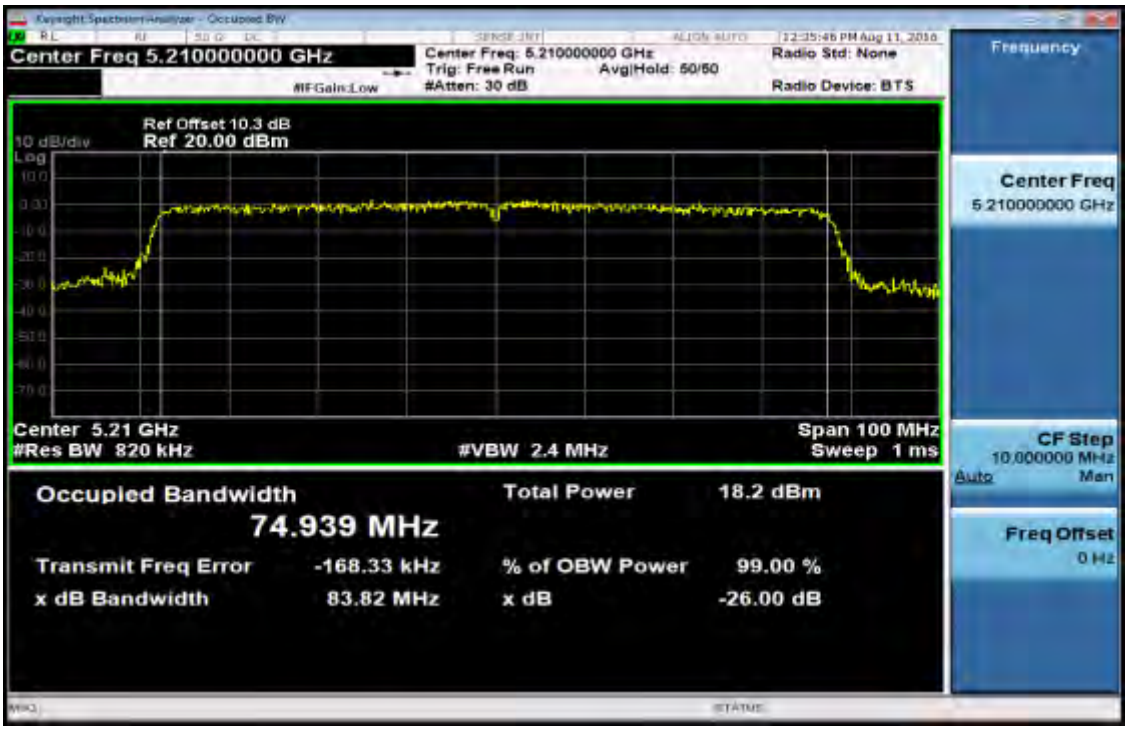
# 802.11ac VHT80 Mode Test Data Plot (5150MHz-5250MHz)
# CH MID 發射頻寬量測值

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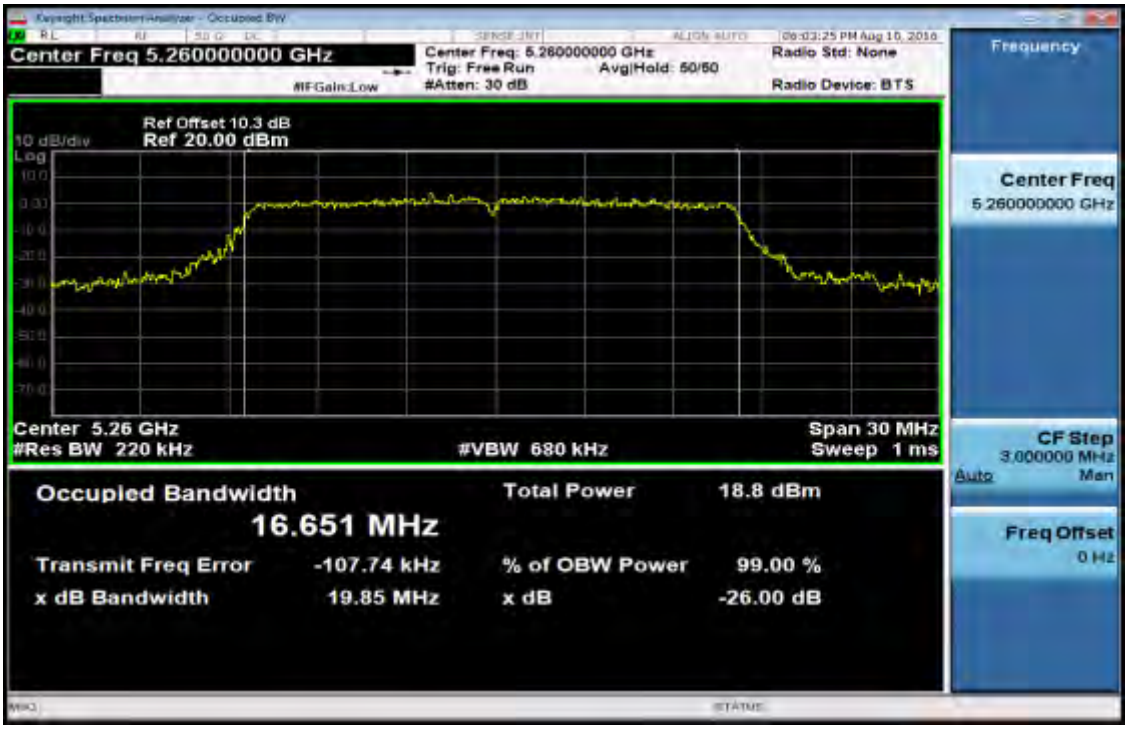
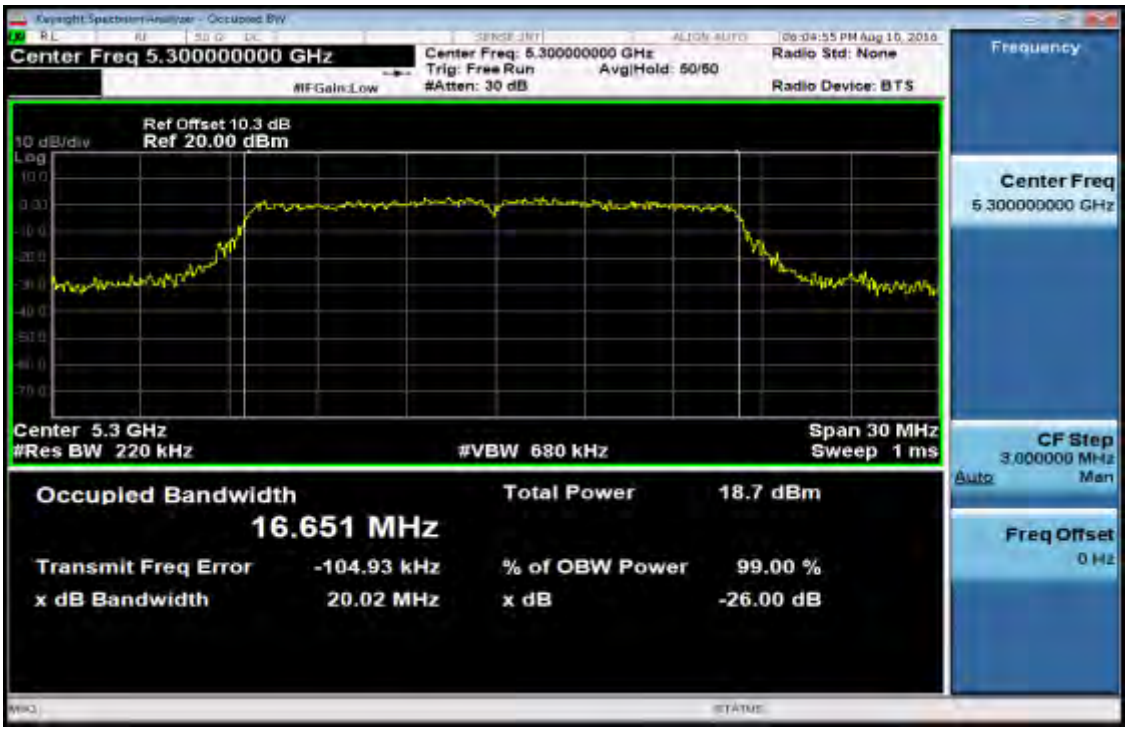
## 802.11a Mode Test Data Plot (5250MHz-5350MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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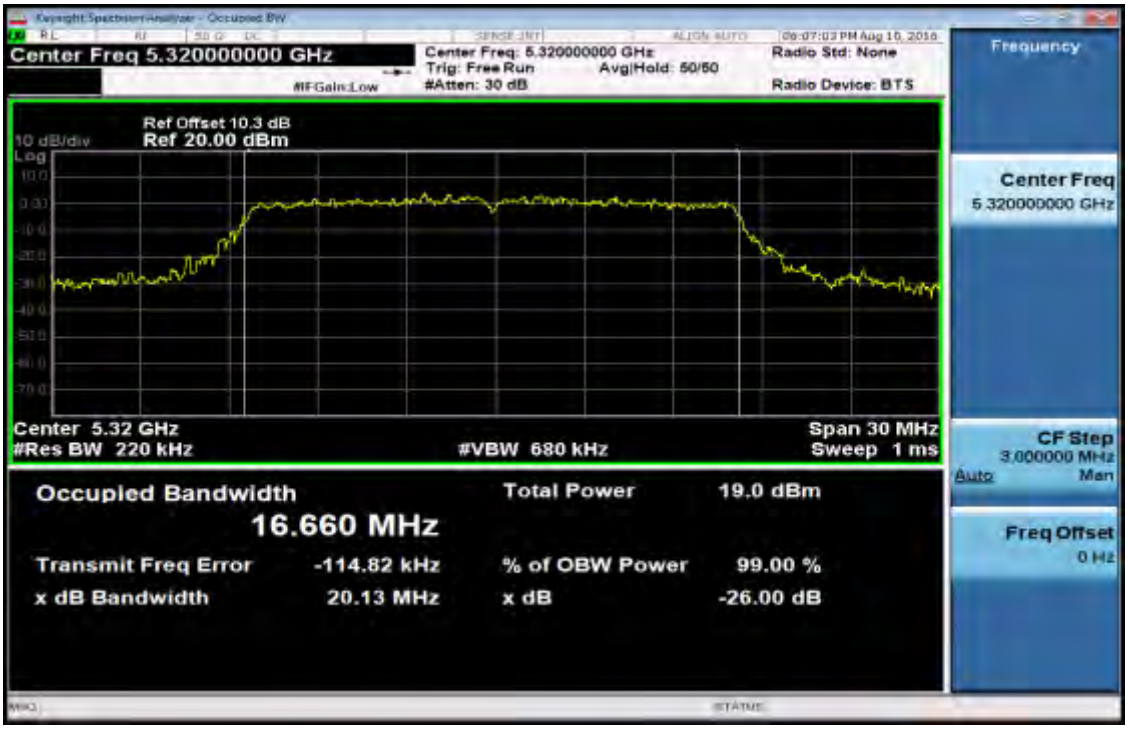
## CH High 發射頻寬量測值

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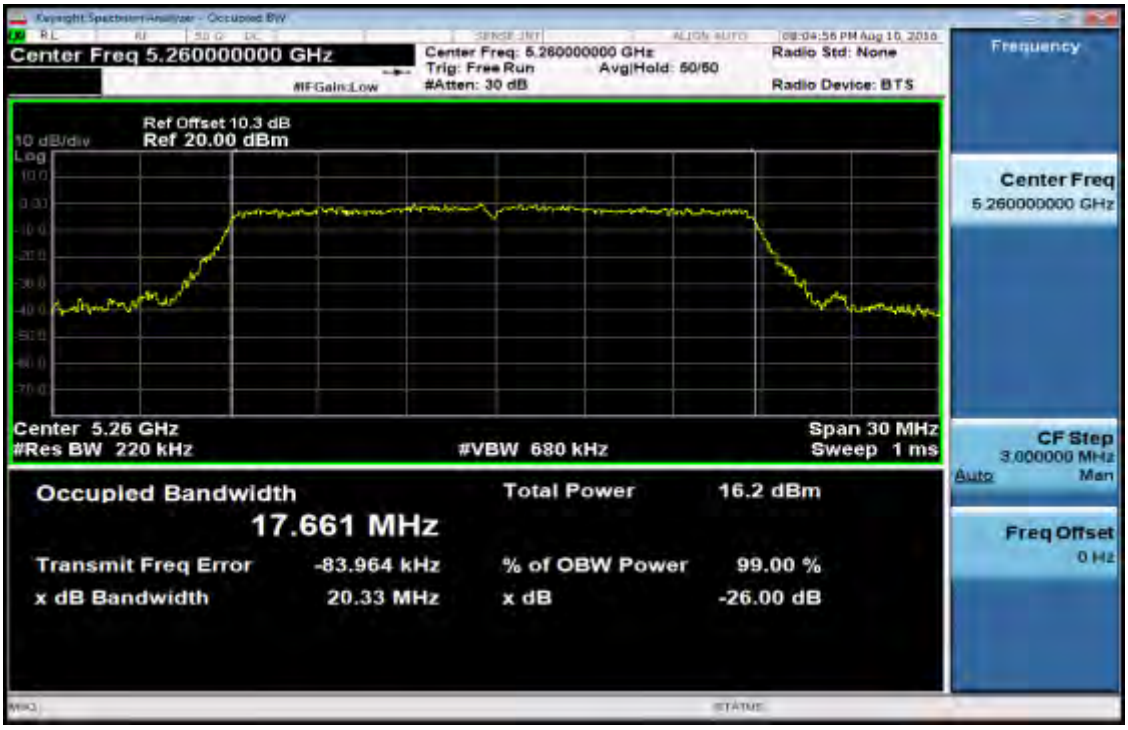
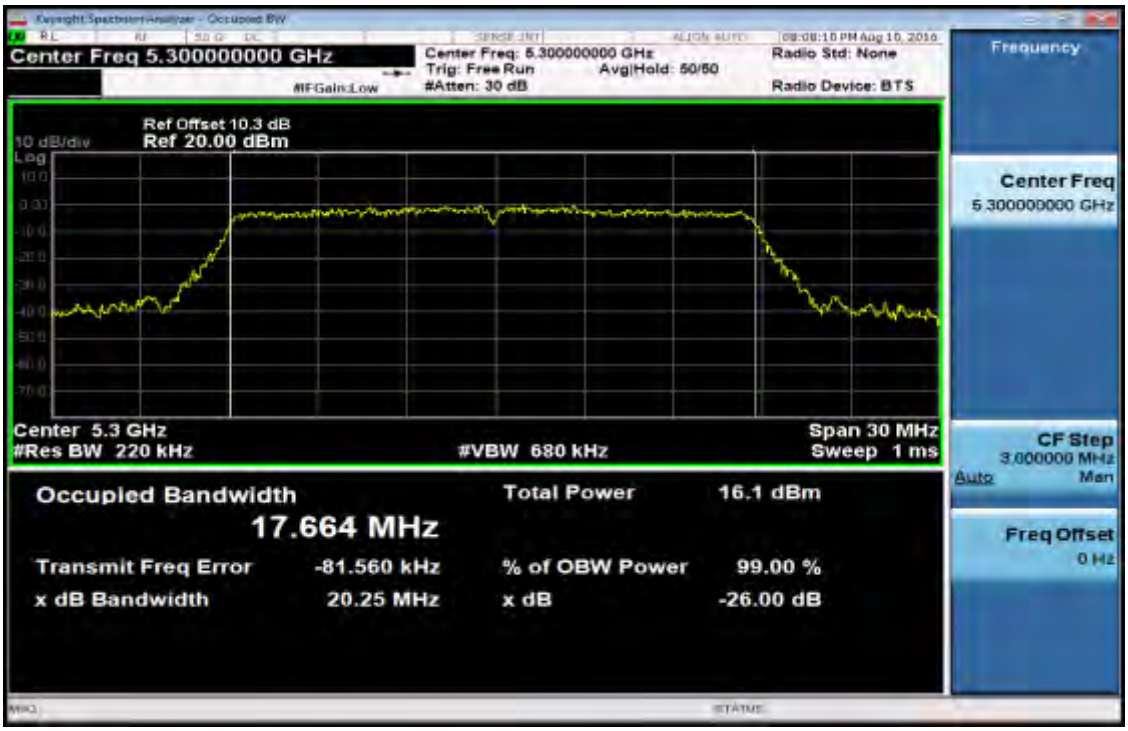
## 802.11n HT20 Mode Test Data Plot (5250MHz-5350MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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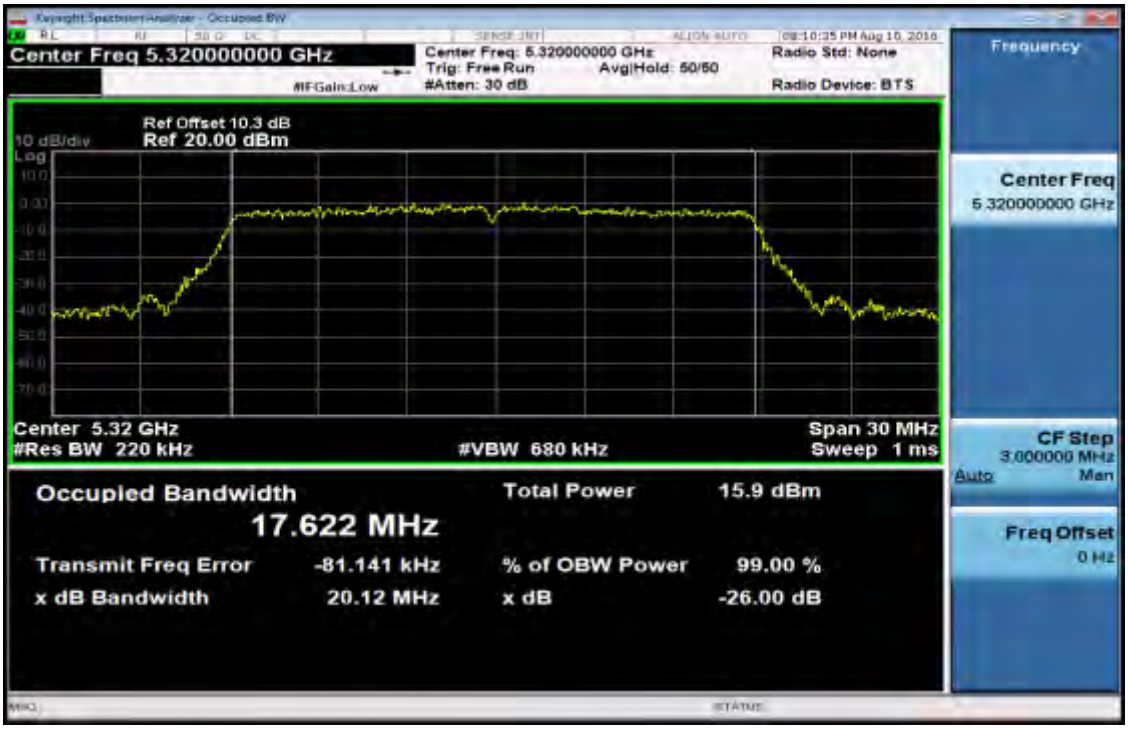
## CH High 發射頻寬量測值

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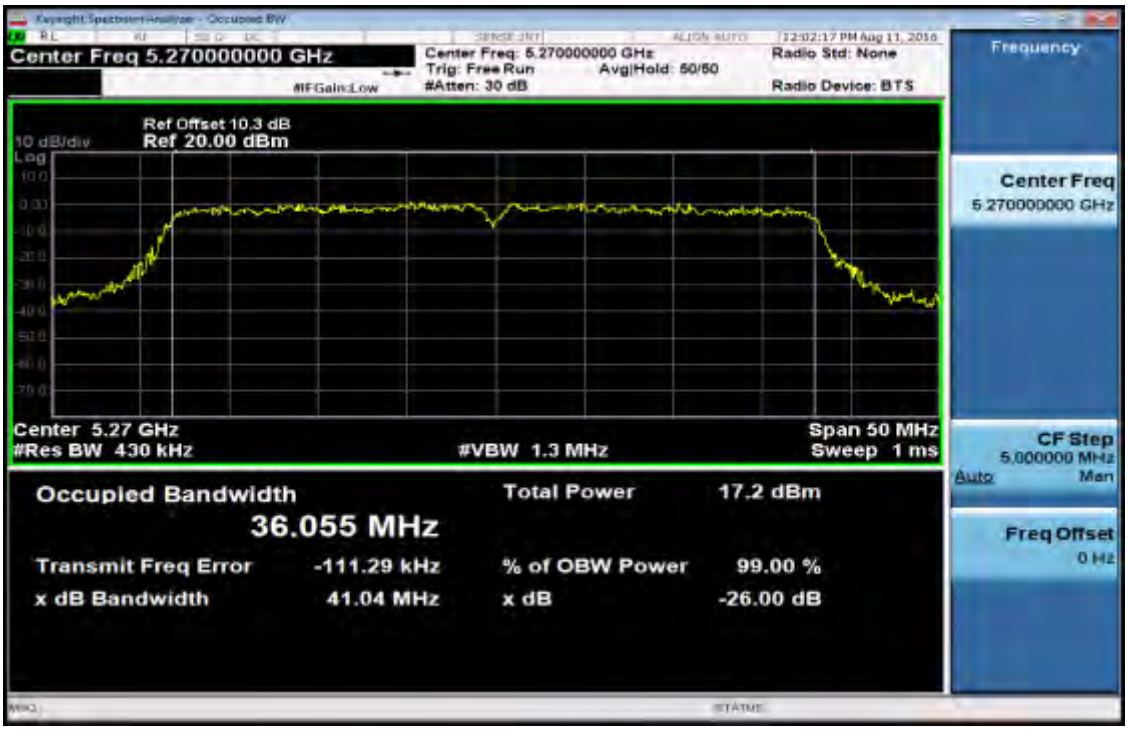
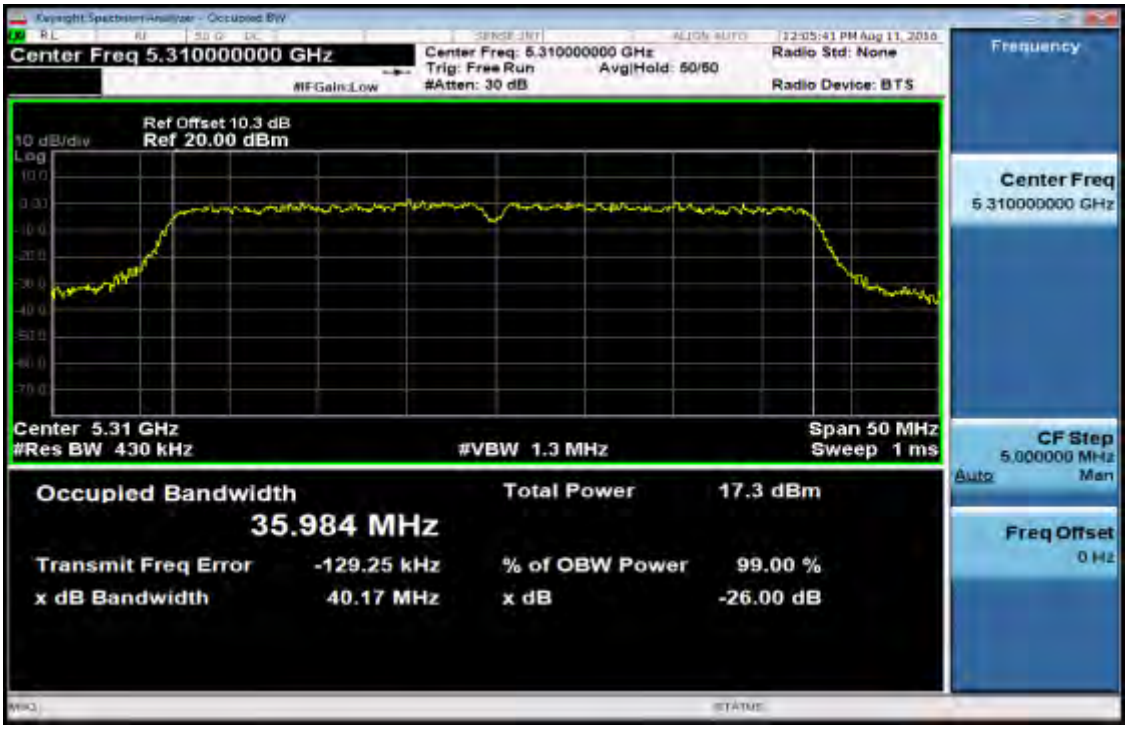
## 802.11n HT40 Mode Test Data Plot (5250MHz-5350MHz)

### CH Low 發射頻寬量測值




### CH High 發射頻寬量測值

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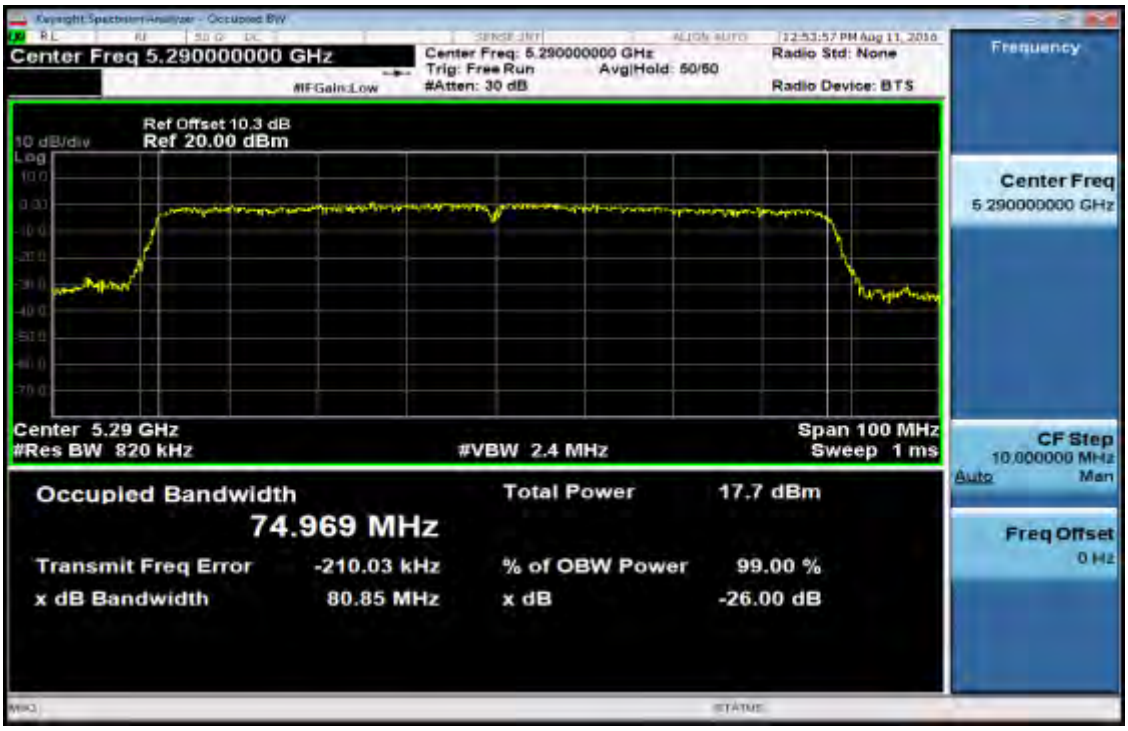
# 802.11ac VHT80 Mode Test Data Plot (5250MHz-5350MHz)
# CH MID 發射頻寬量測值

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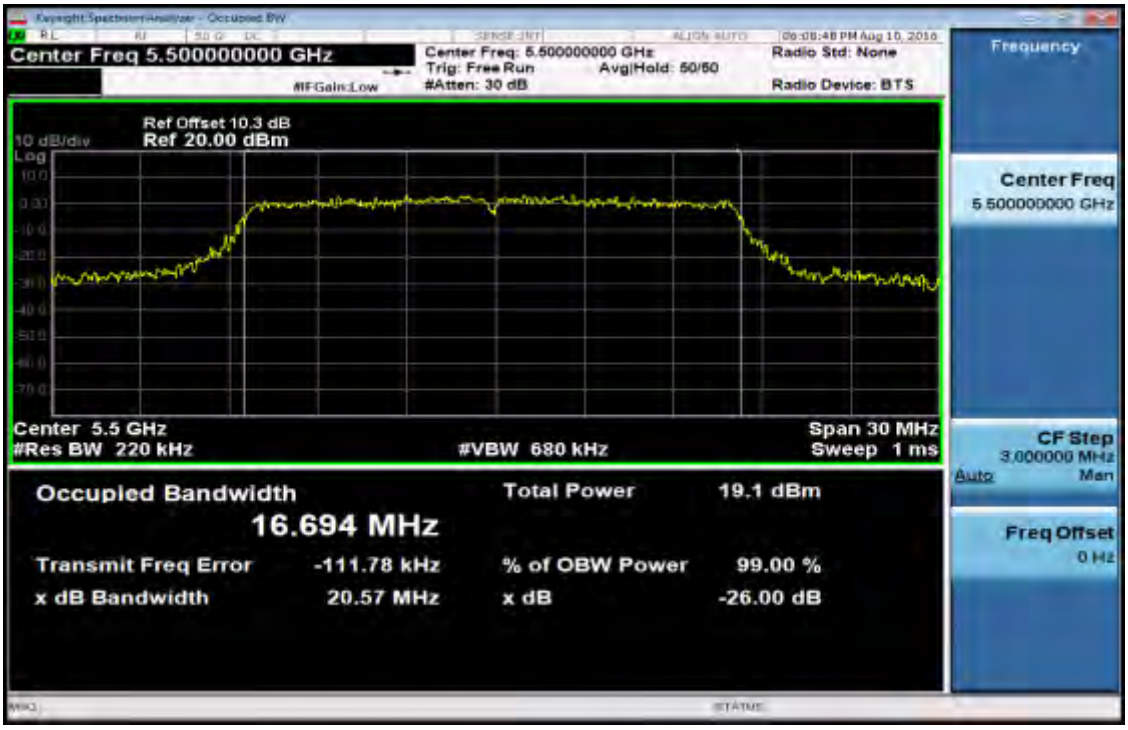
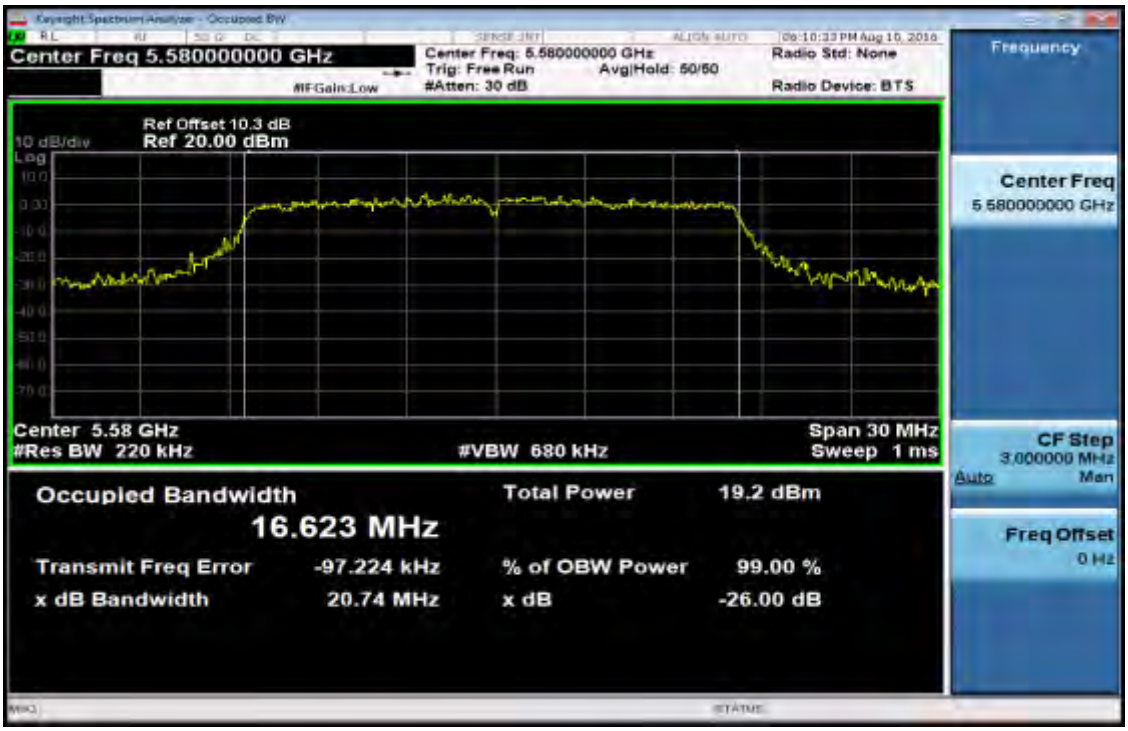
## 802.11a Mode Test Data Plot (5470MHz-5725MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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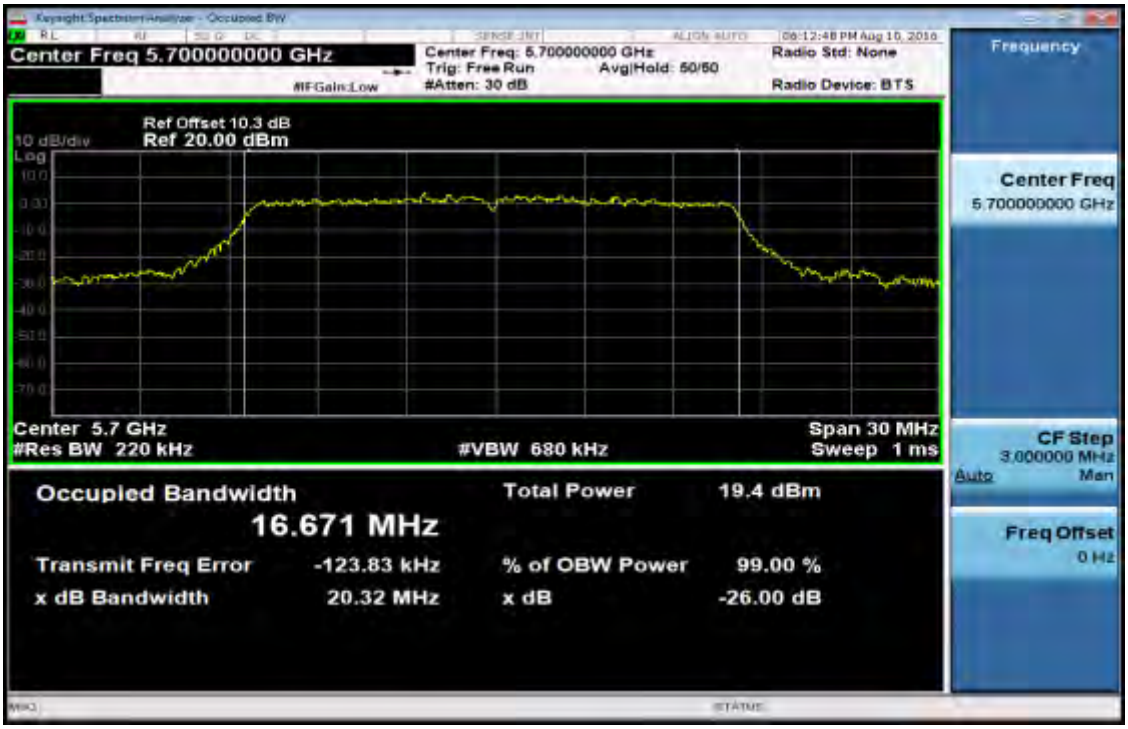
## CH High 發射頻寬量測值

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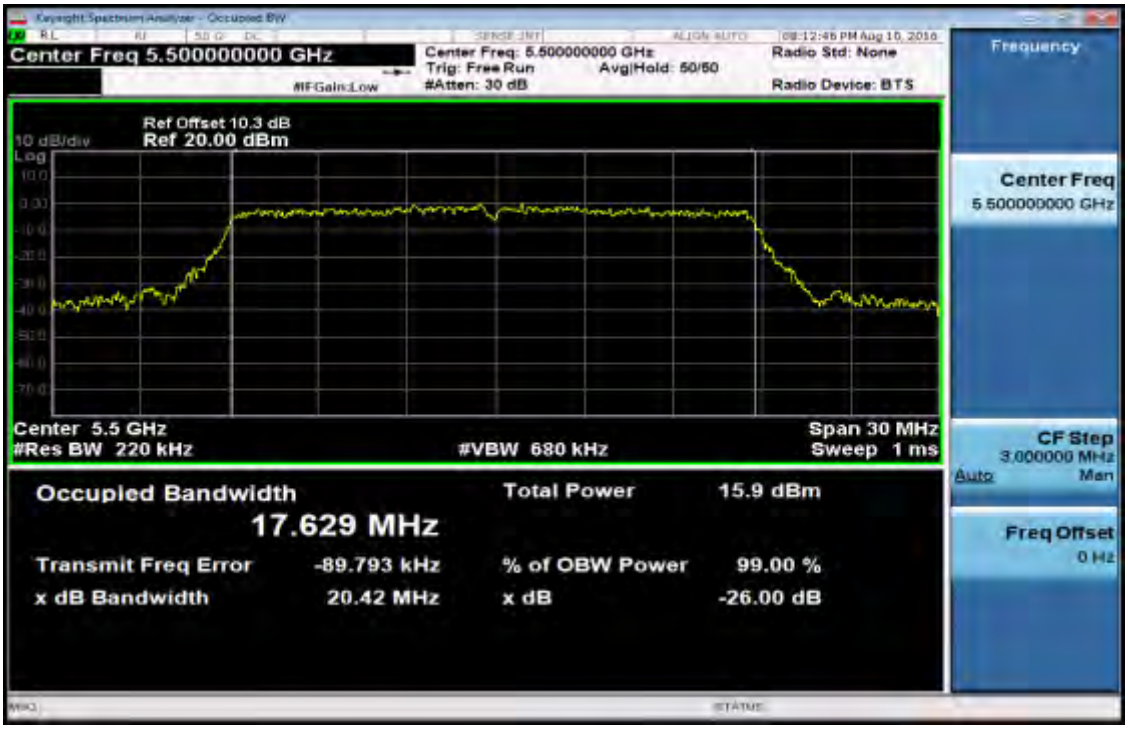
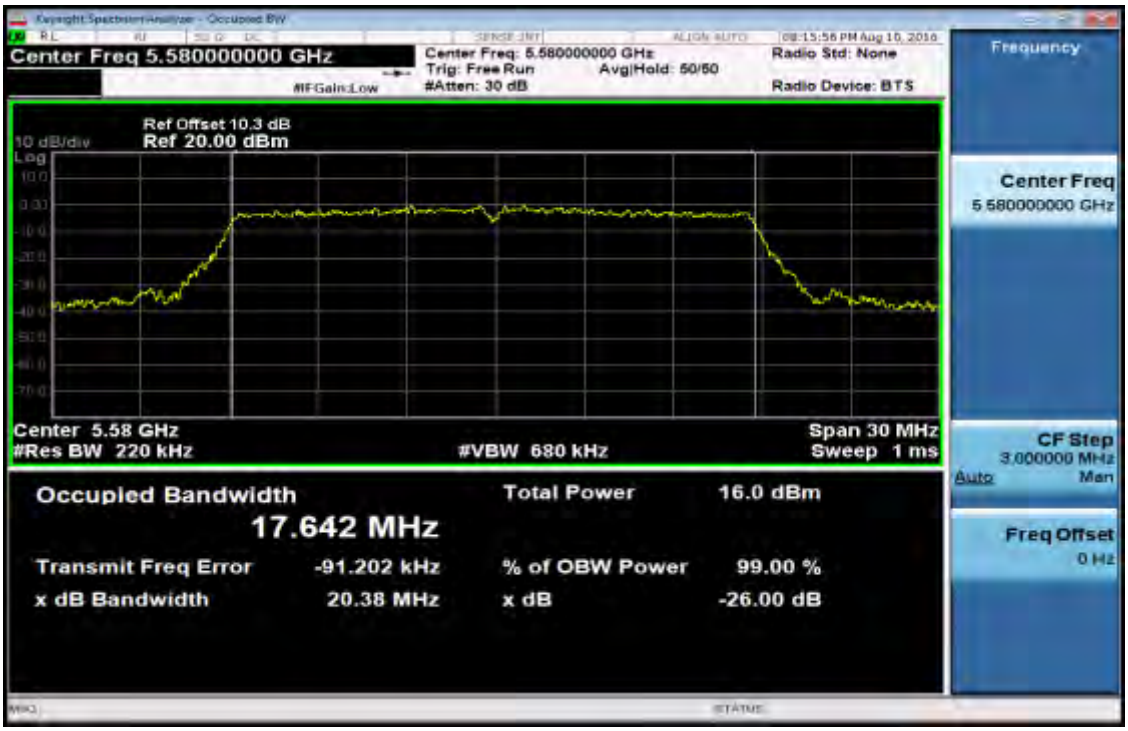
## 802.11n HT20 Mode Test Data Plot (5470MHz-5725MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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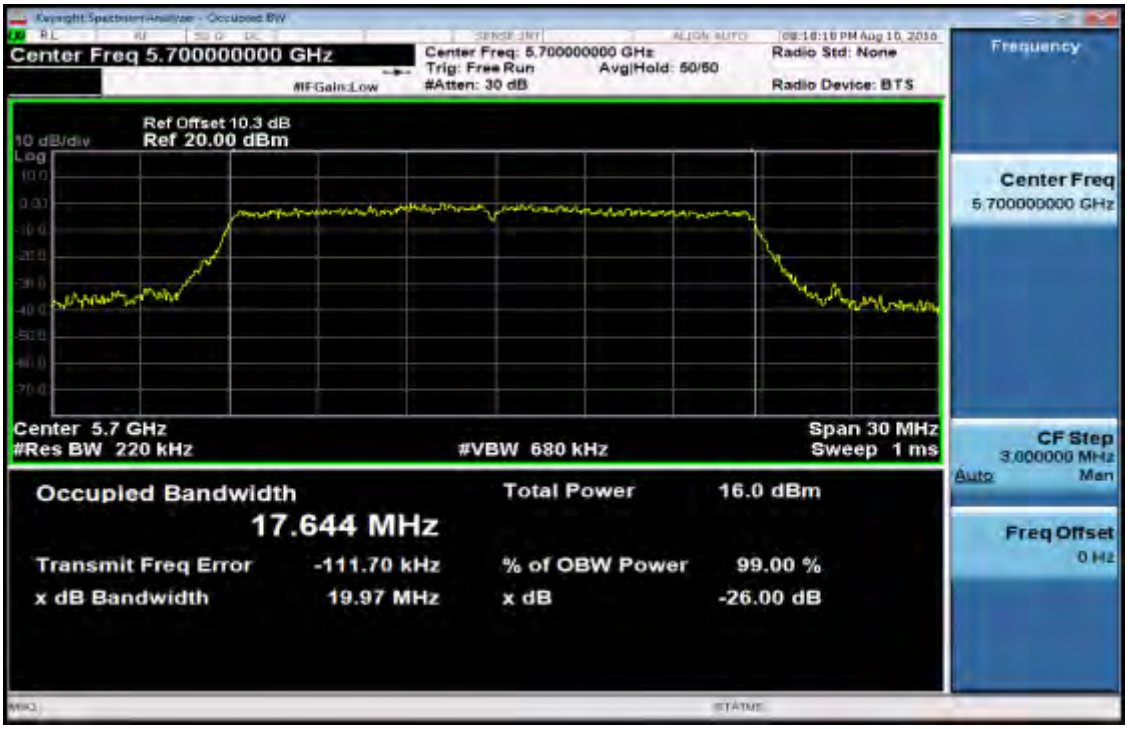
## CH High 發射頻寬量測值

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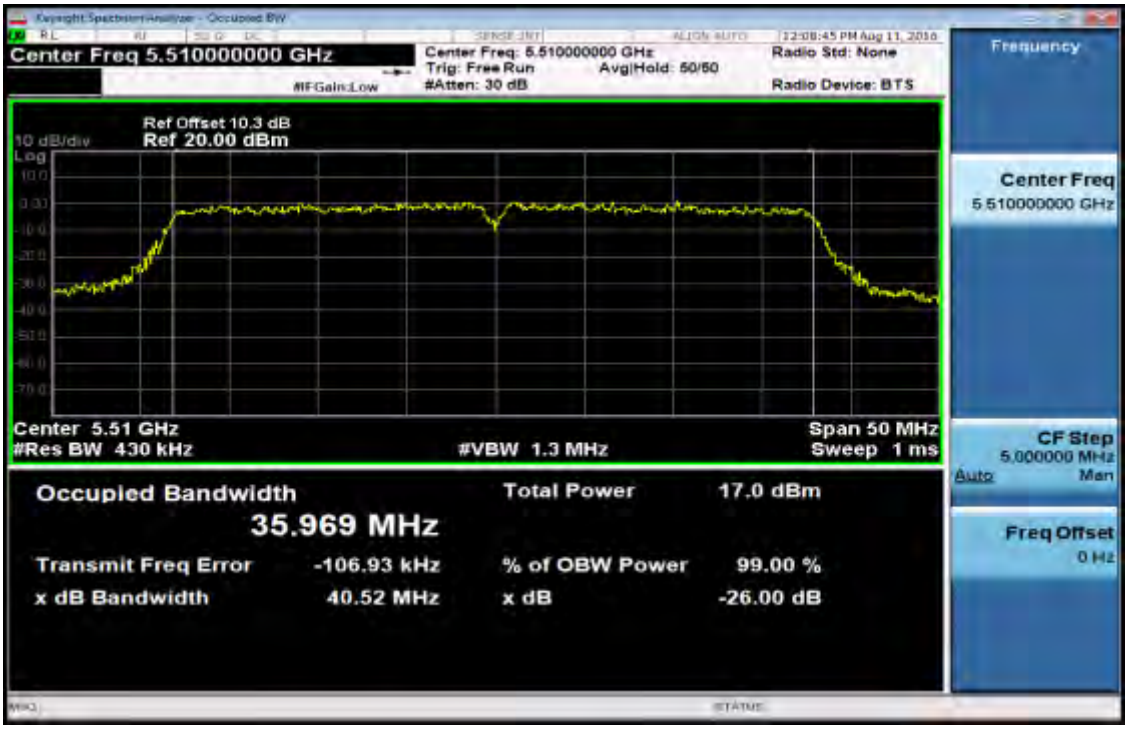
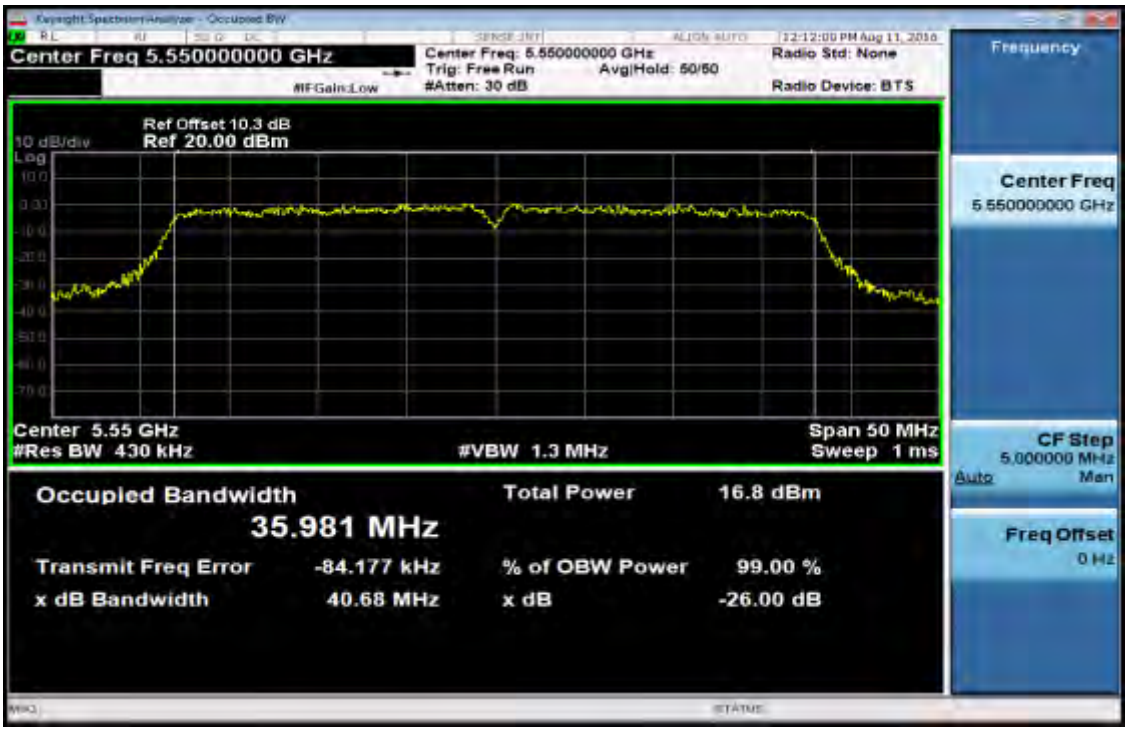
## 802.11n HT40 Mode Test Data Plot (5470MHz-5725MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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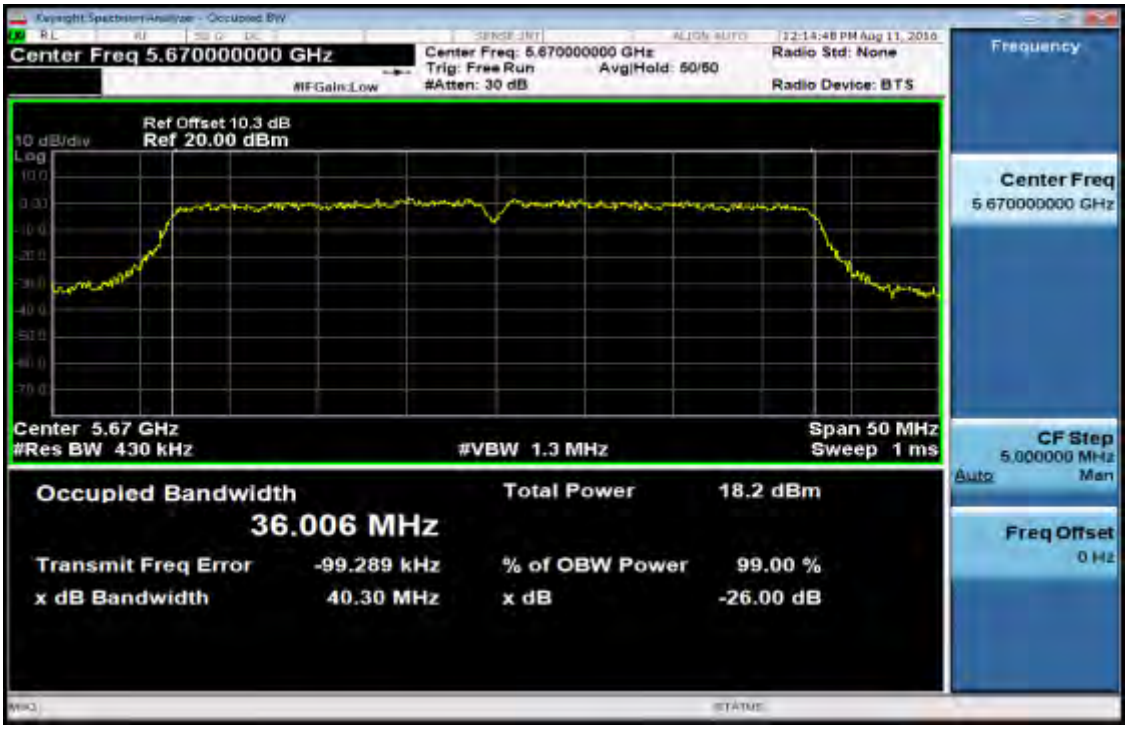
## CH High 發射頻寬量測值

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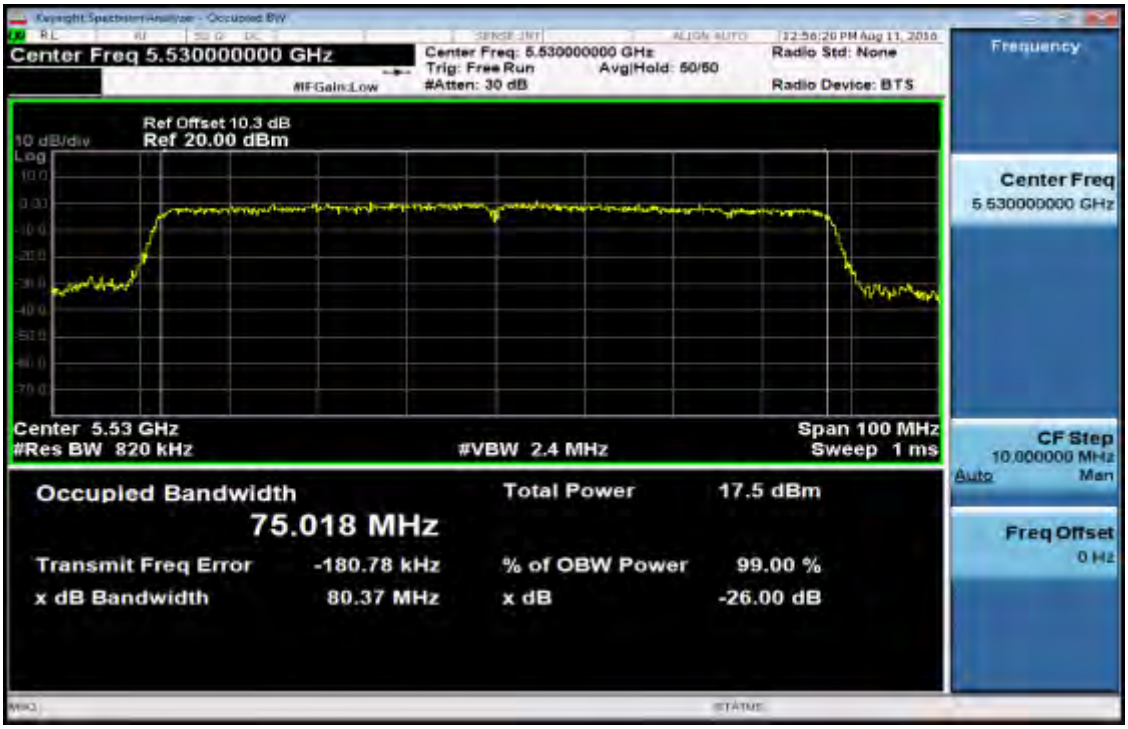
# 802.11ac VHT80 Mode Test Data Plot (5470MHz-5725MHz)
# CH MID 發射頻寬量測值

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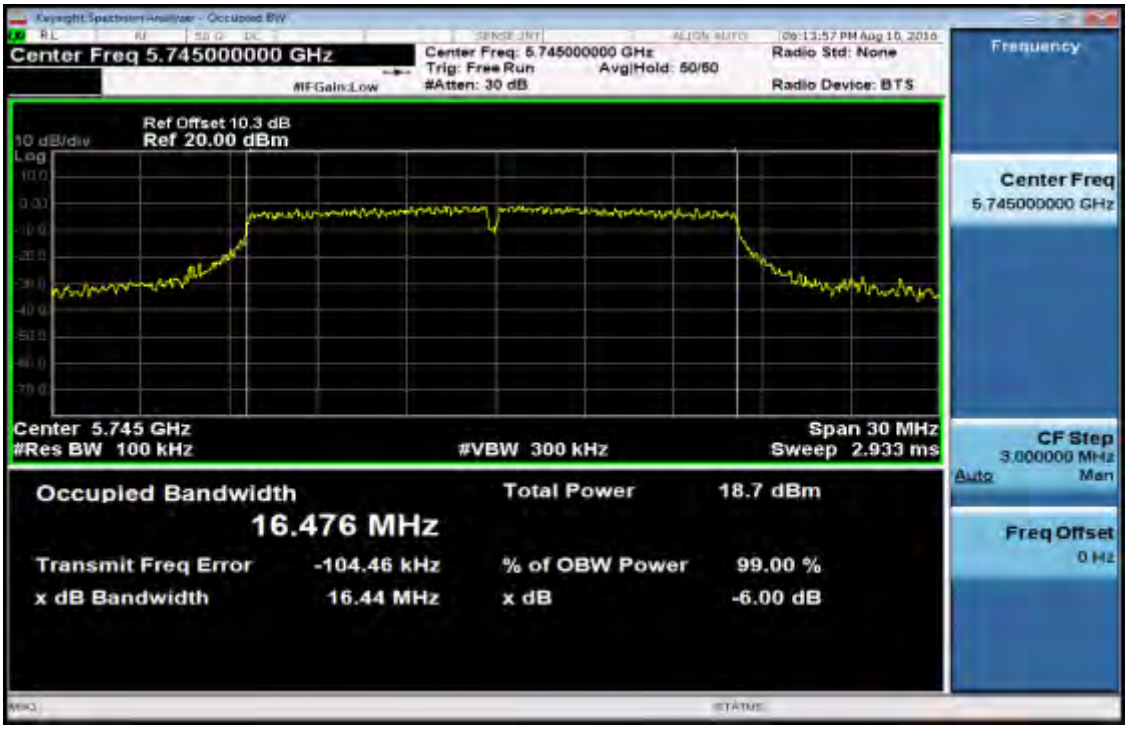
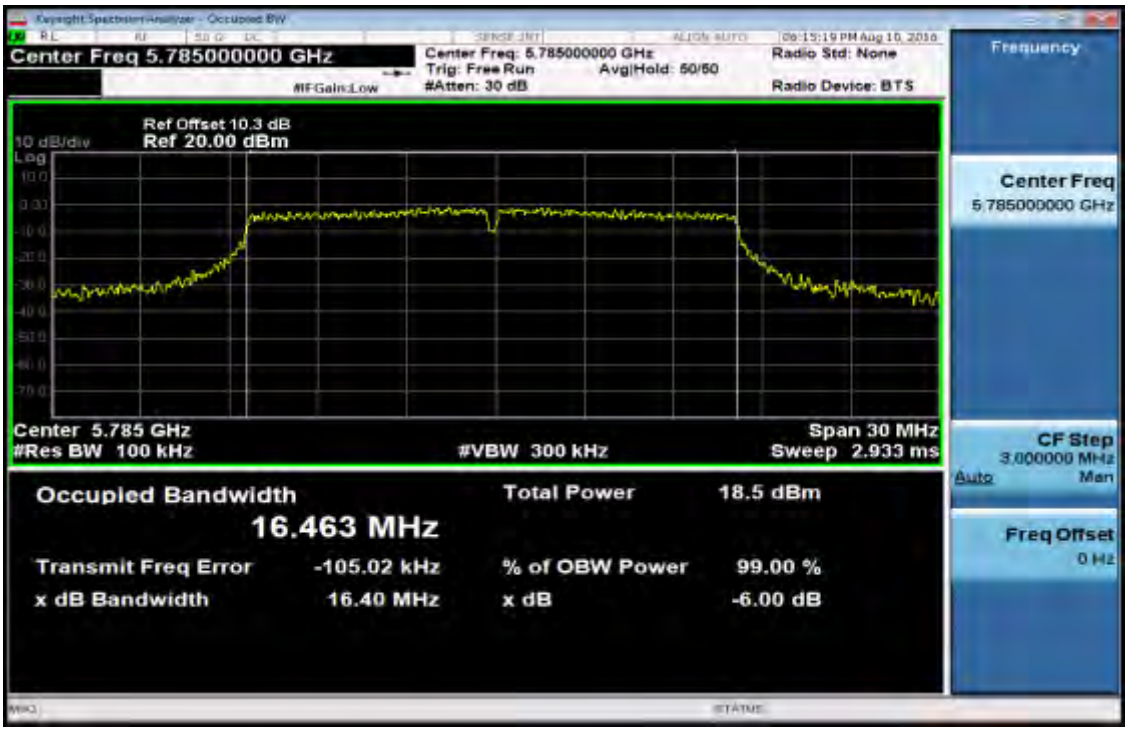
## 802.11a Mode Test Data Plot (5725MHz-5850MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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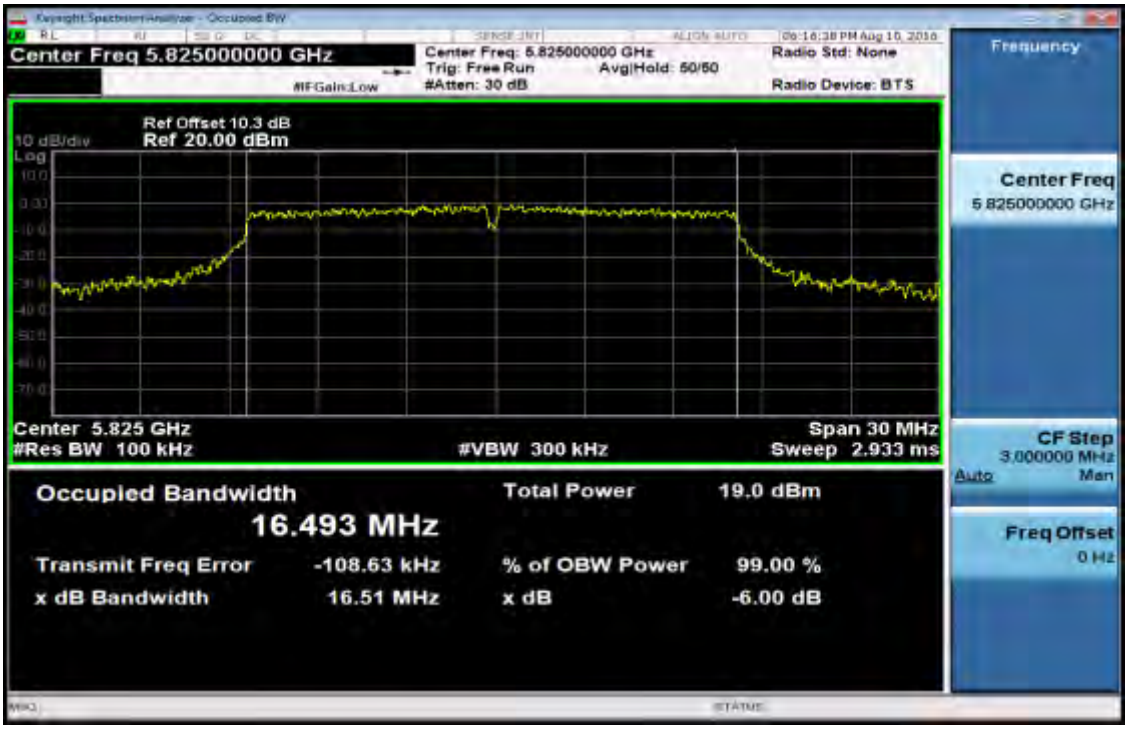
## CH High 發射頻寬量測值

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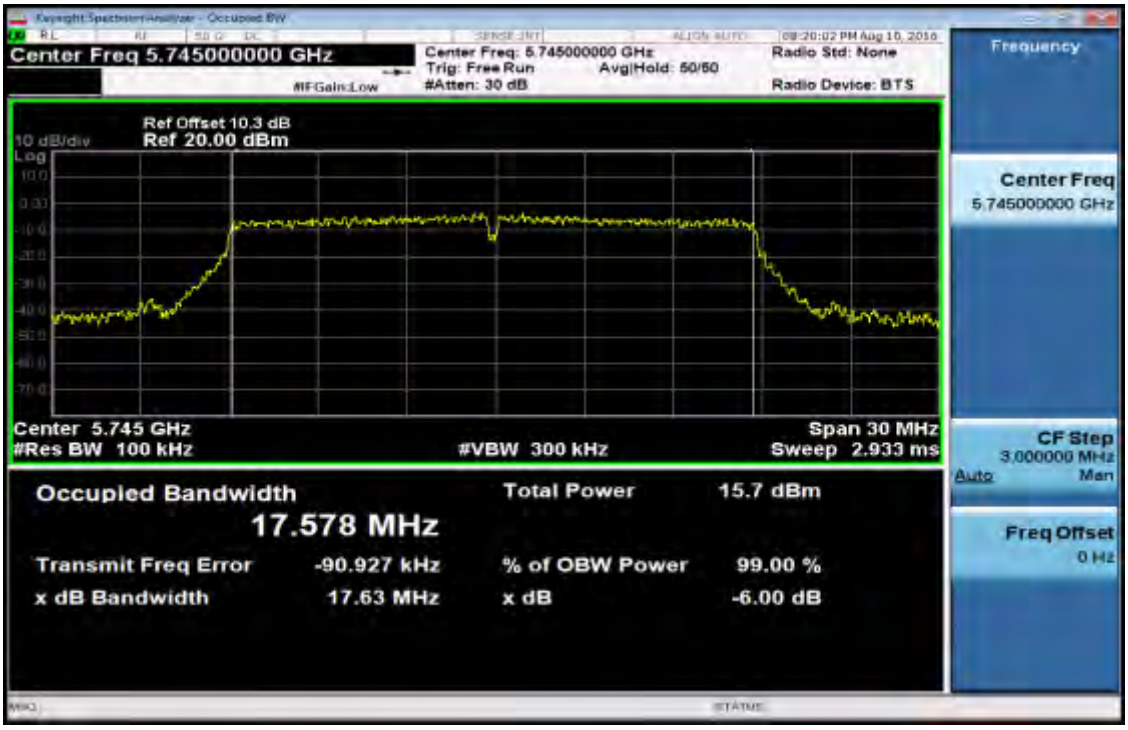
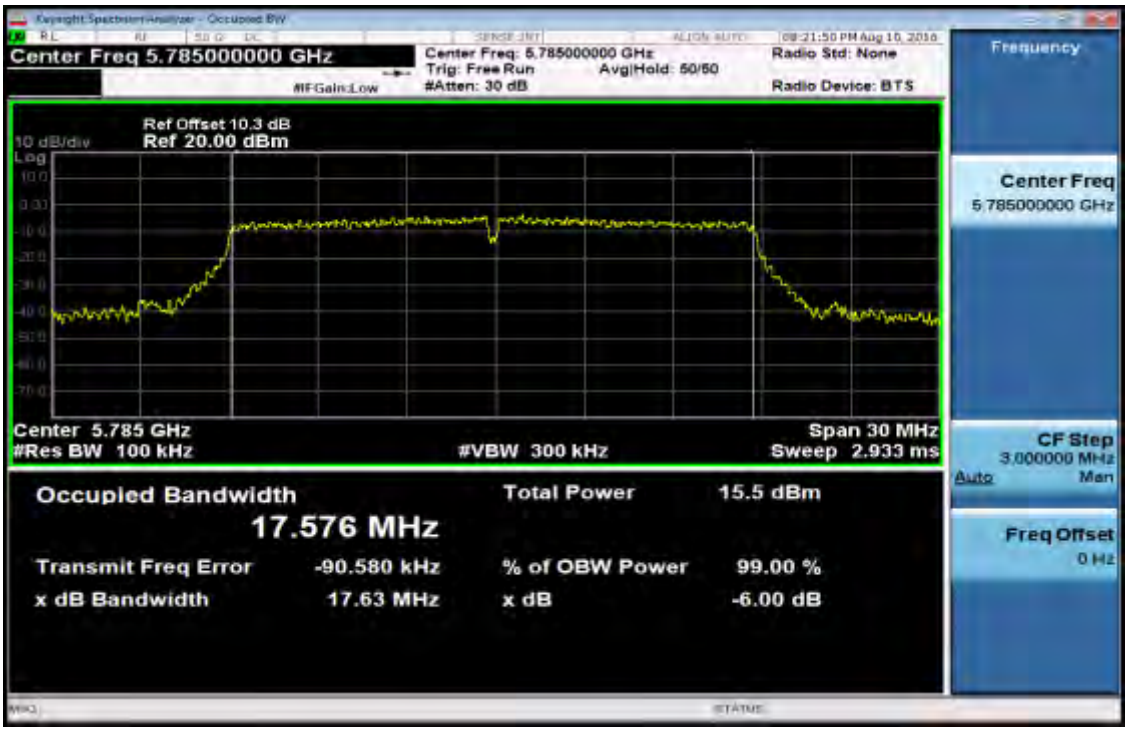
## 802.11n HT20 Mode Test Data Plot (5725MHz-5850MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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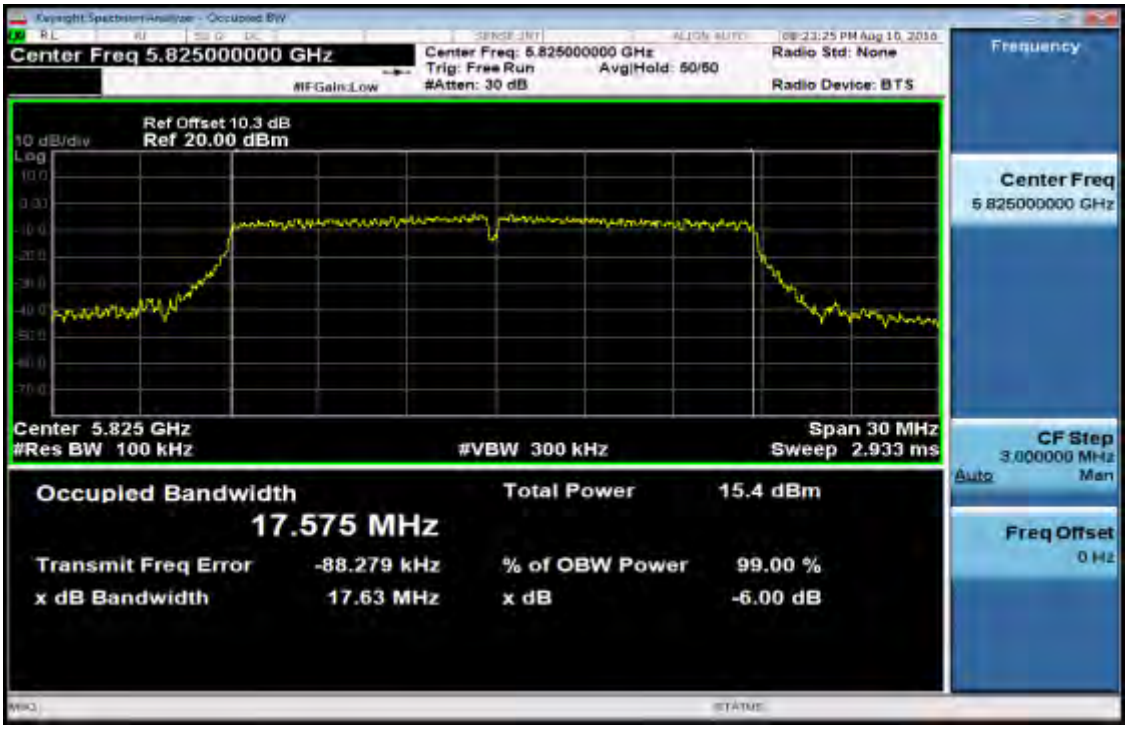
## CH High 發射頻寬量測值

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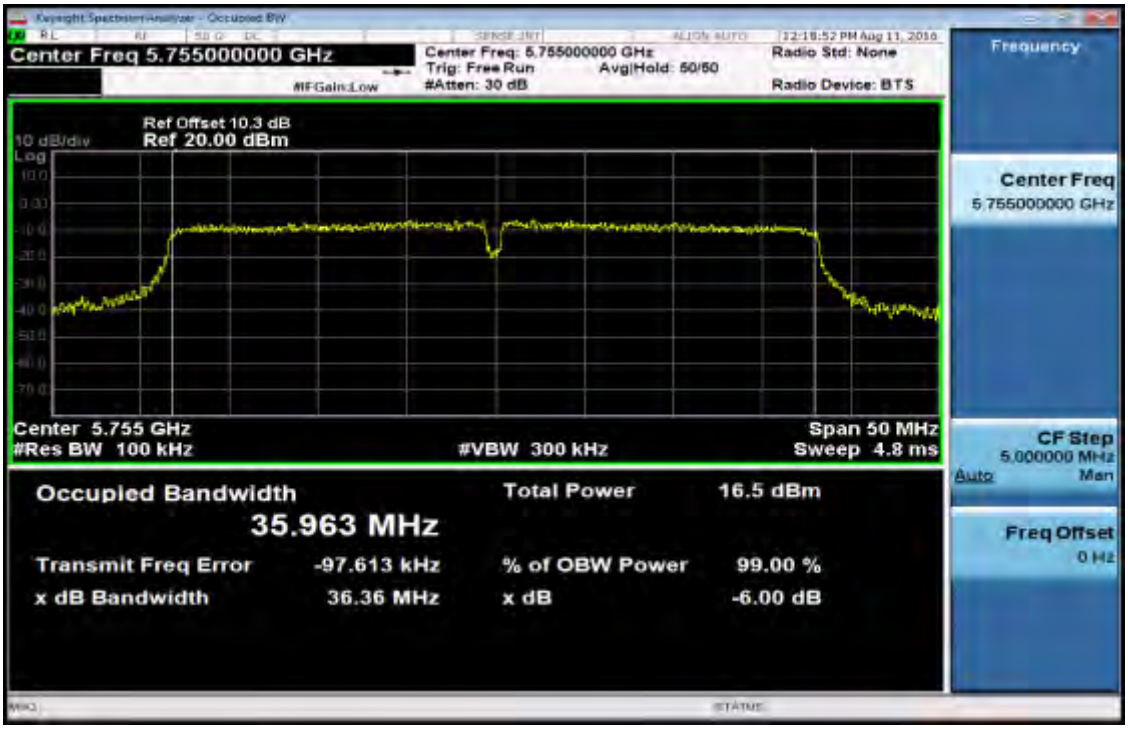
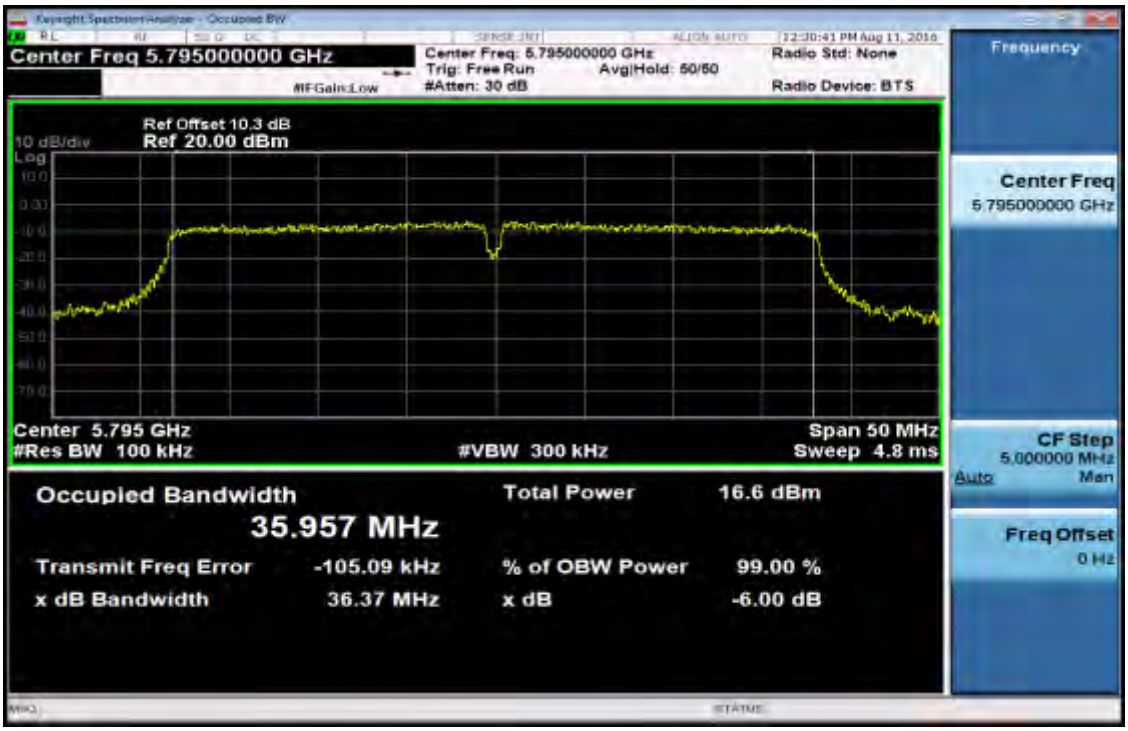
## 802.11n HT40 Mode Test Data Plot (5725MHz-5850MHz)

### CH Low 發射頻寬量測值




### CH High 發射頻寬量測值

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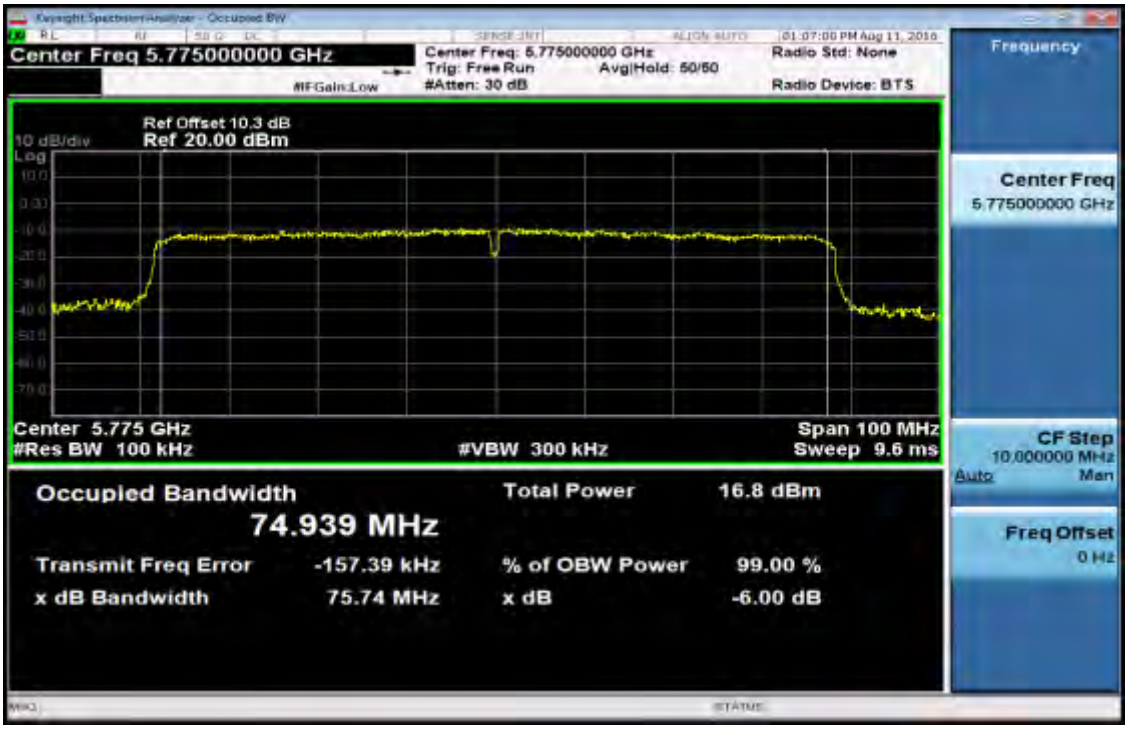
# 802.11ac VHT80 Mode Test Data Plot (5725MHz-5850MHz)
# CH MID 發射頻寬量測值

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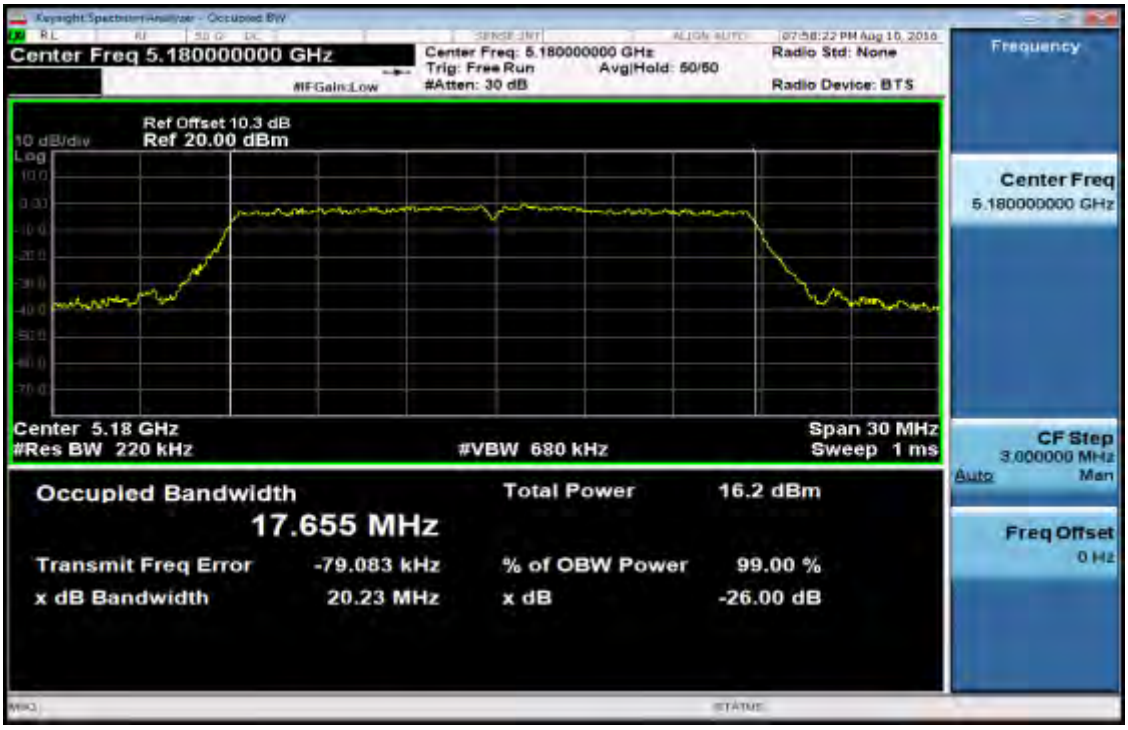
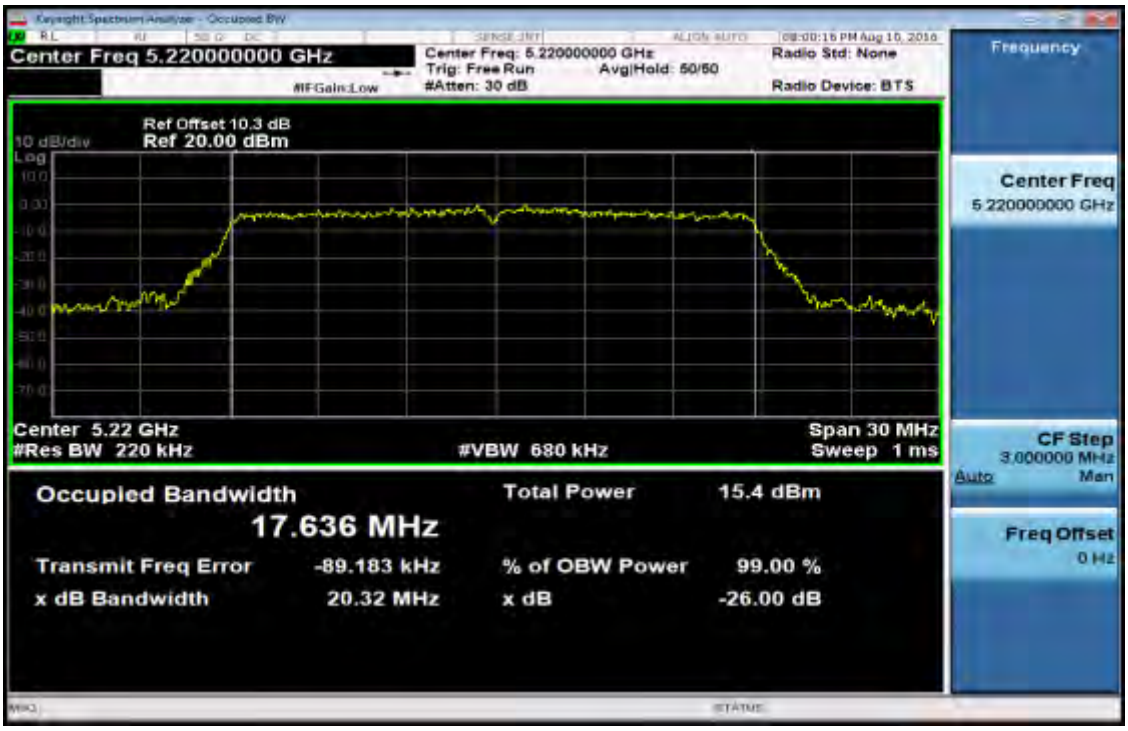
## 8.5 測試結果

## 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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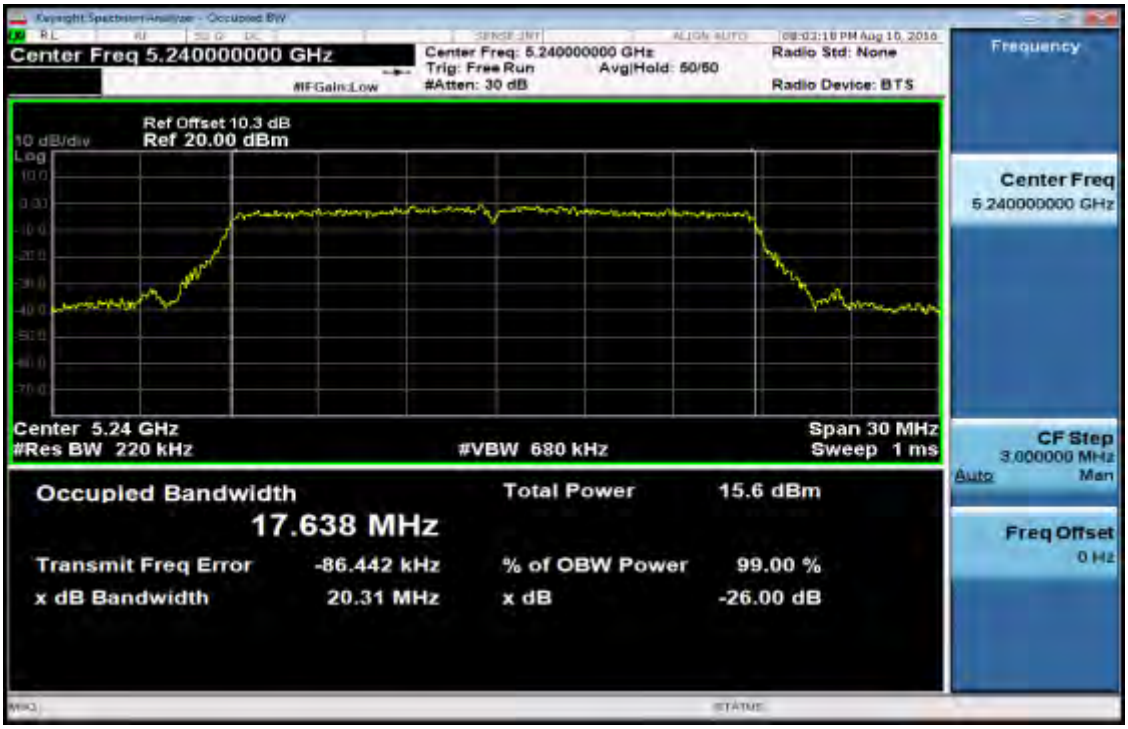
## CH High 發射頻寬量測值

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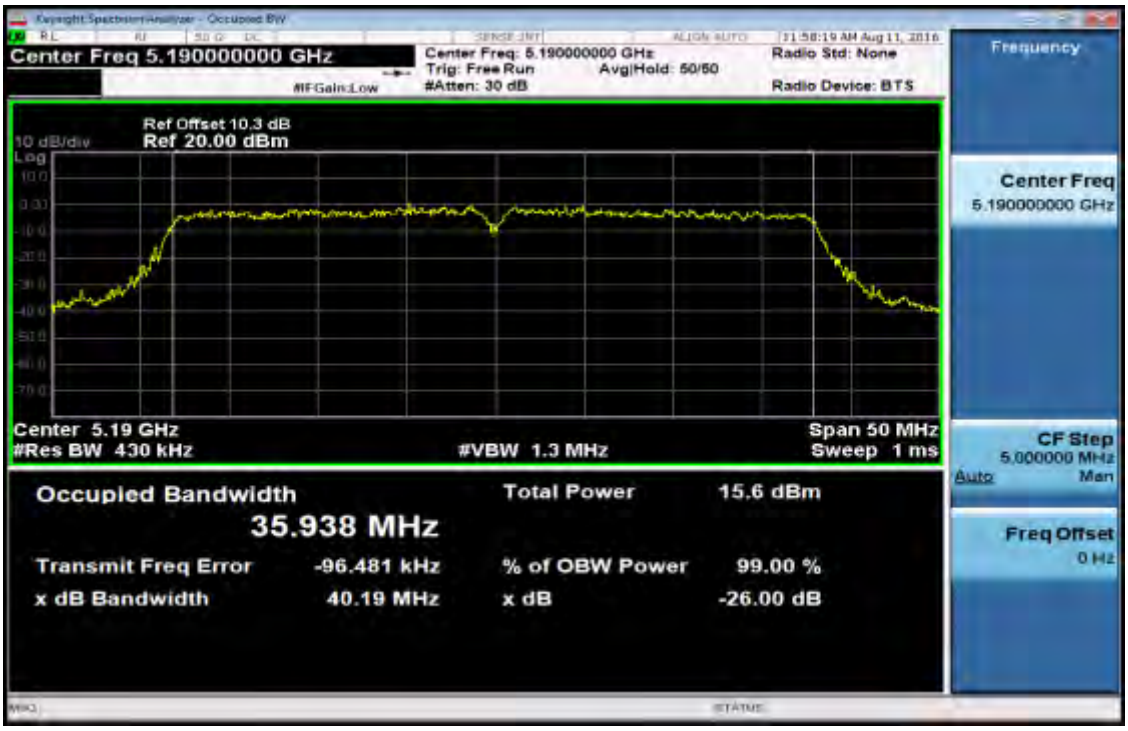
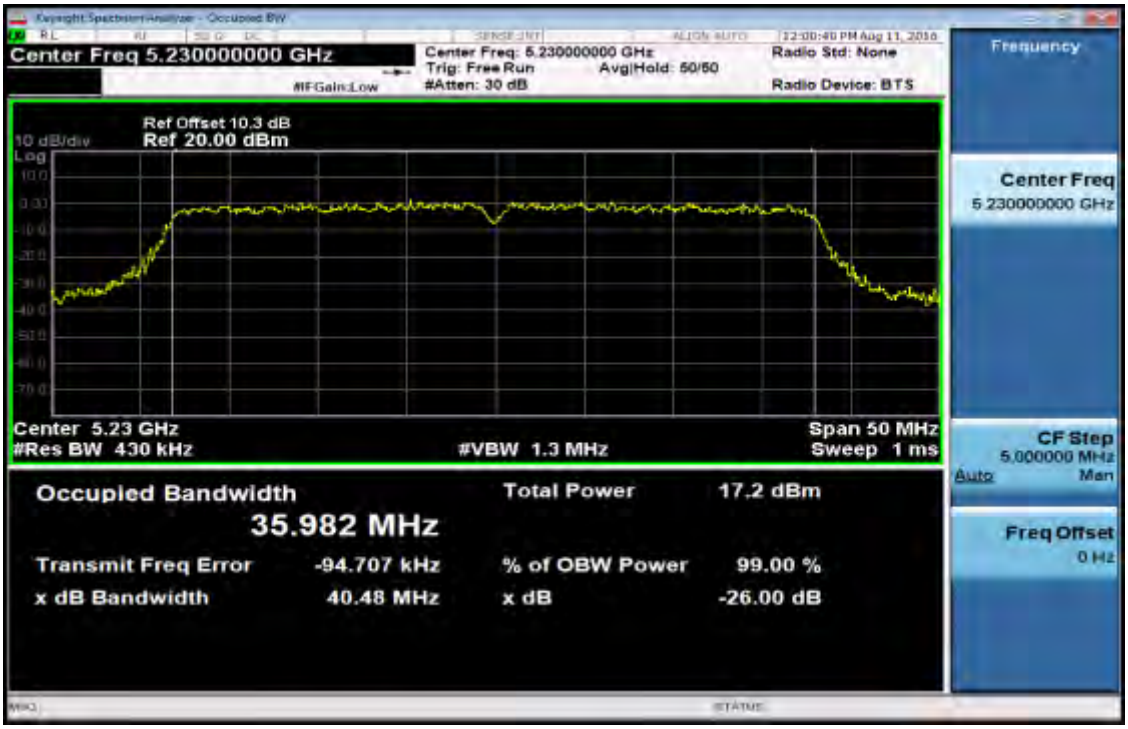
## 802.11n HT40 Mode Test Data Plot (5150MHz-5250MHz)

### CH Low 發射頻寬量測值




### CH High 發射頻寬量測值

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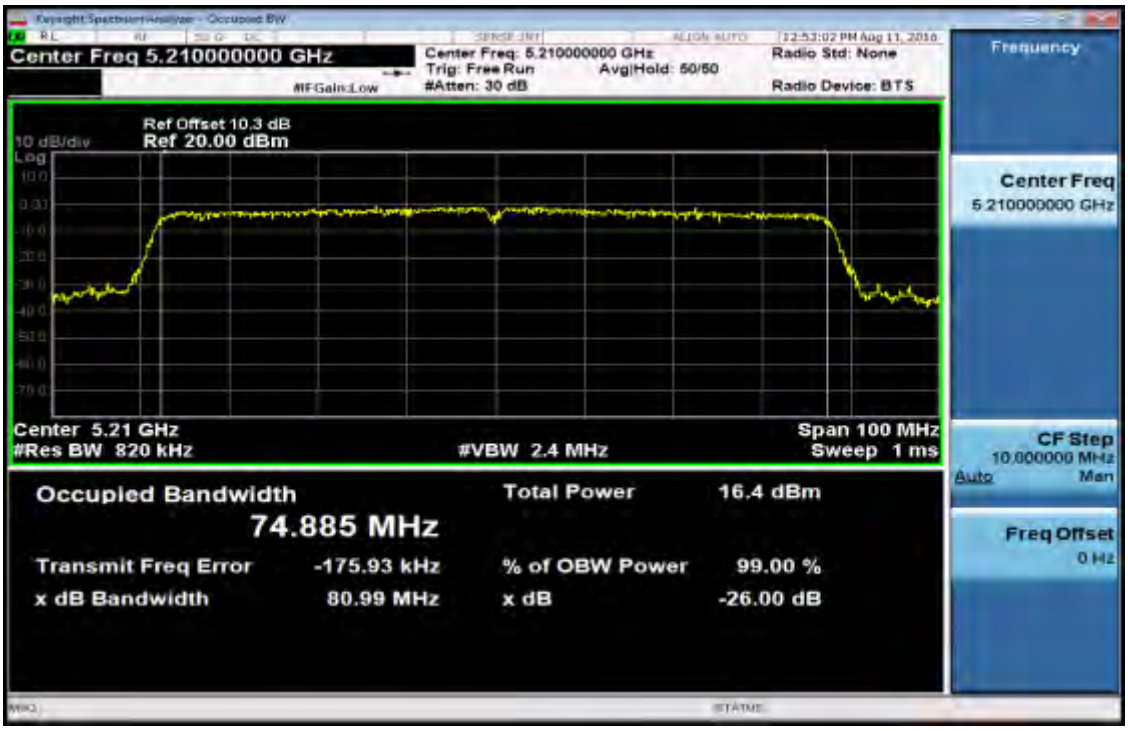
# 802.11ac VHT80 Mode Test Data Plot (5150MHz-5250MHz)
# CH MID 發射頻寬量測值

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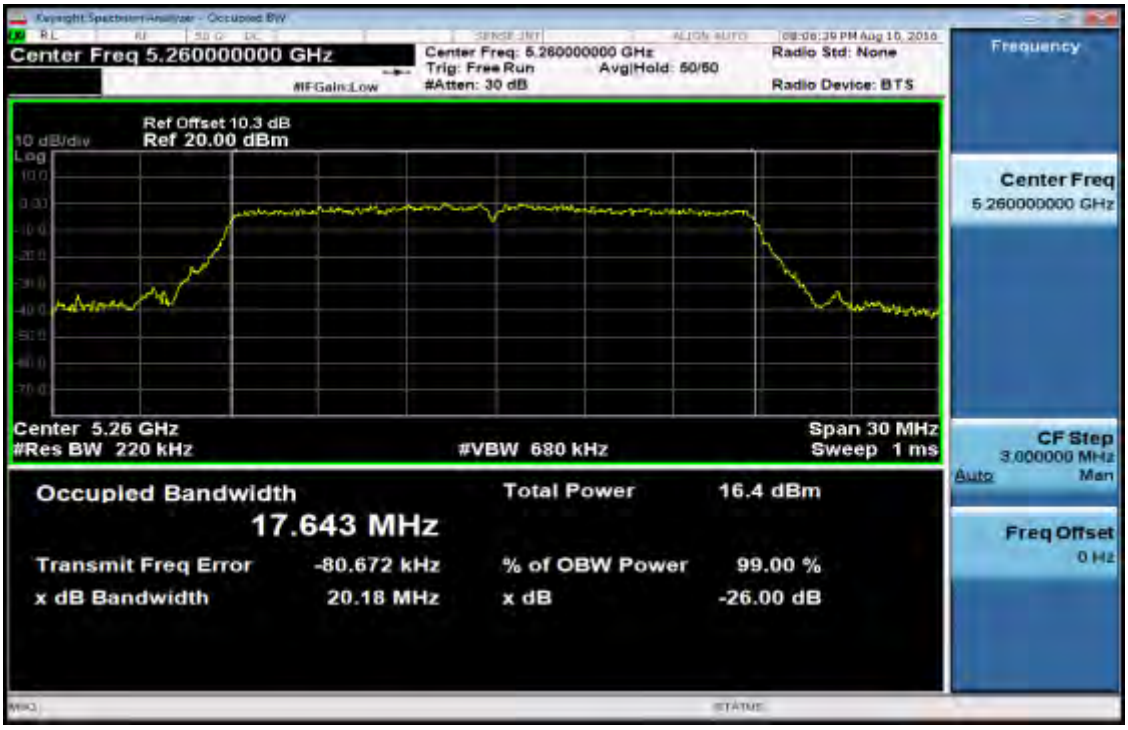
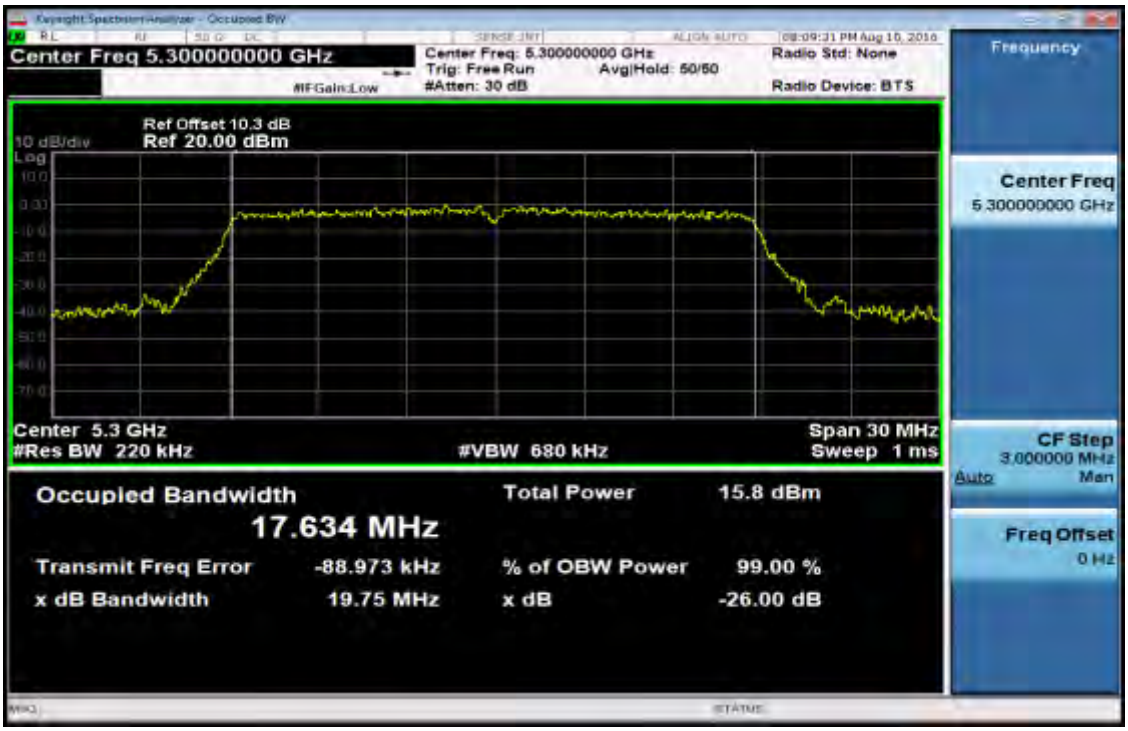
## 802.11n HT20 Mode Test Data Plot (5250MHz-5350MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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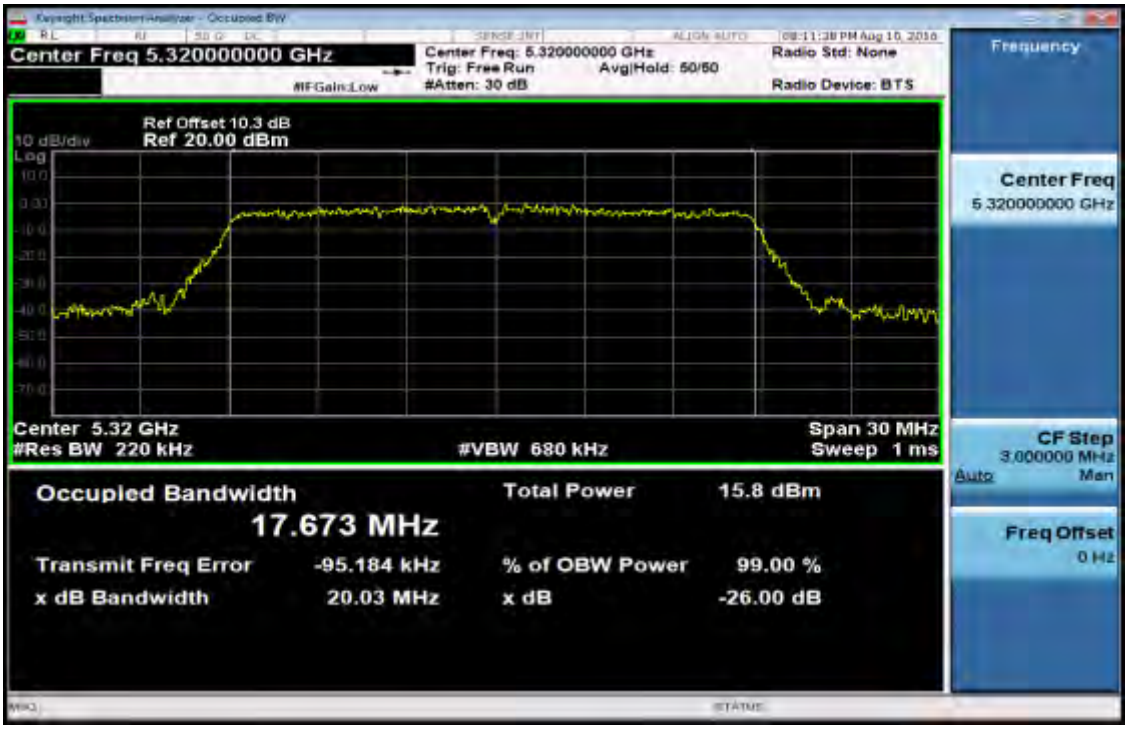
## CH High 發射頻寬量測值

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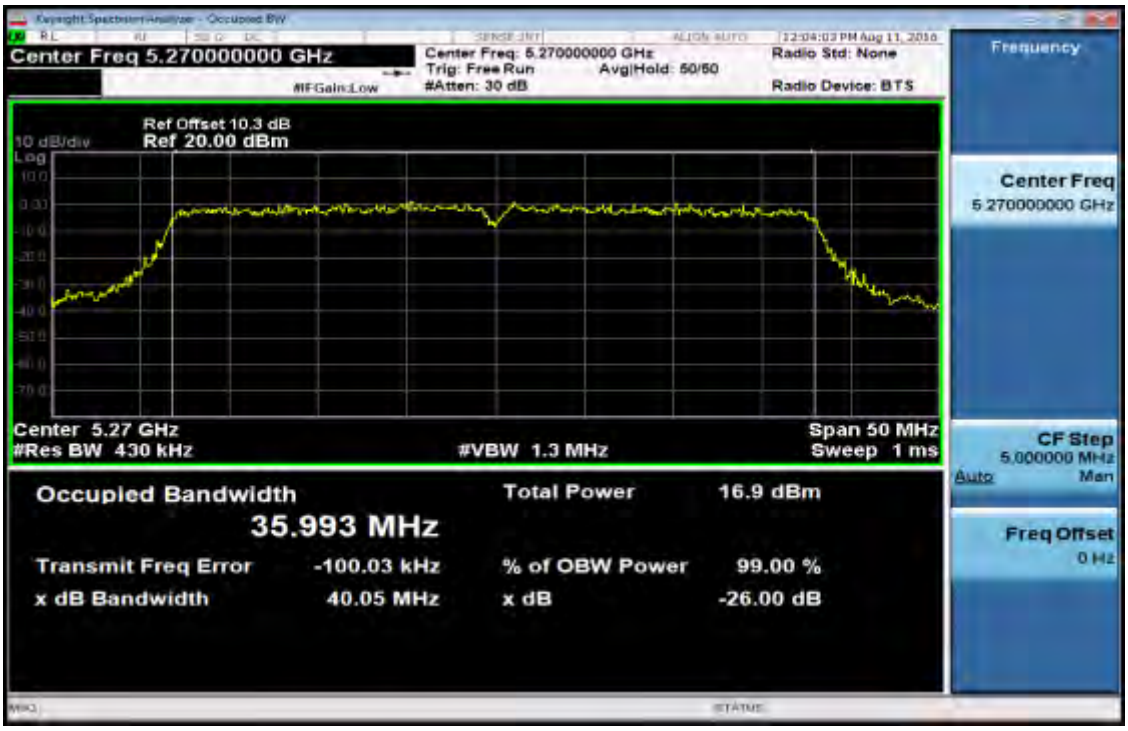
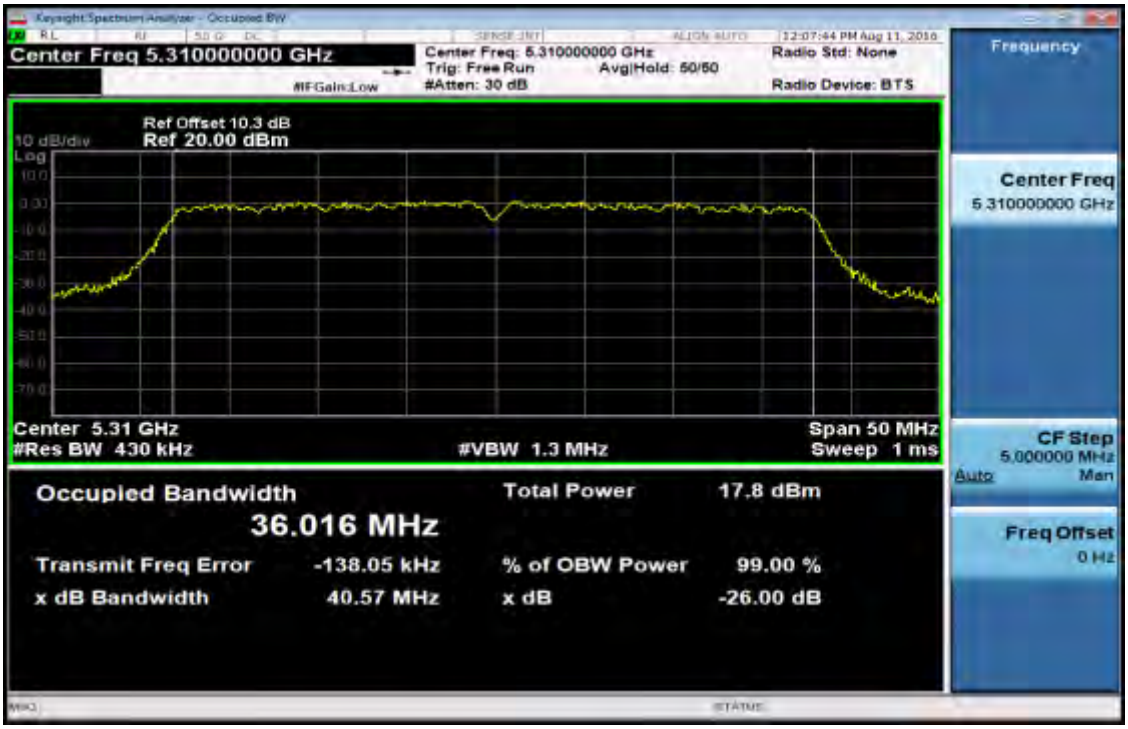
## 802.11n HT40 Mode Test Data Plot (5250MHz-5350MHz)

### CH Low 發射頻寬量測值




### CH High 發射頻寬量測值

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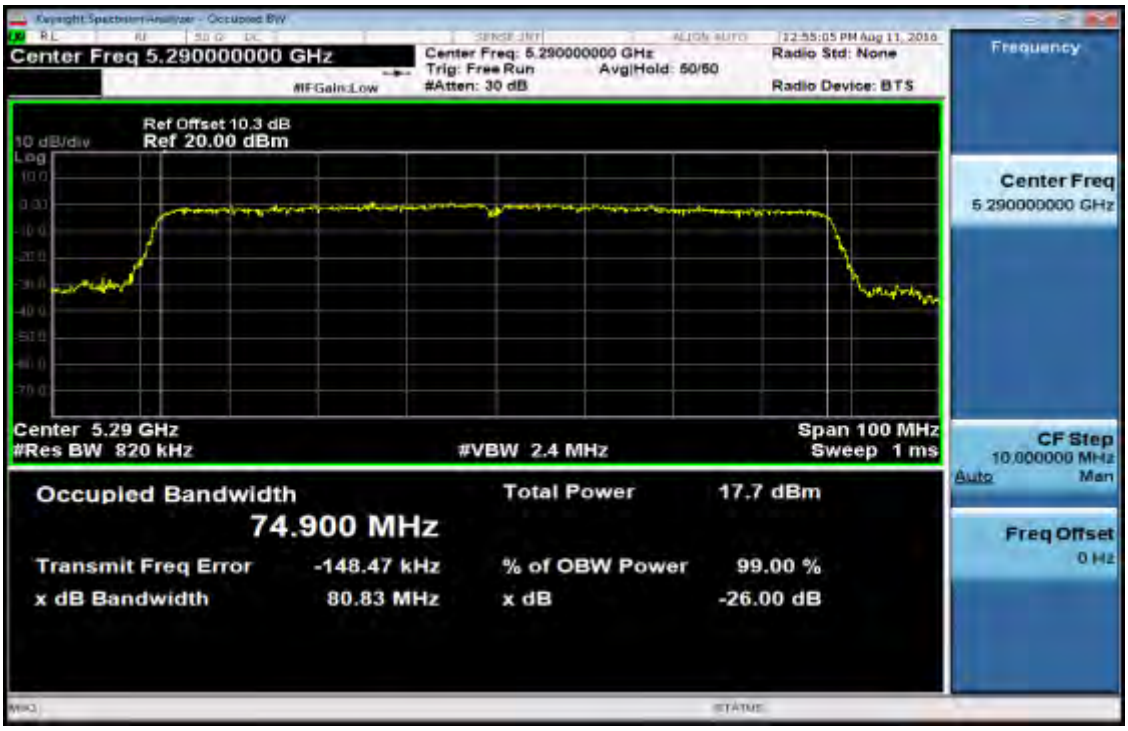
# 802.11ac VHT80 Mode Test Data Plot (5250MHz-5350MHz)
# CH MID 發射頻寬量測值

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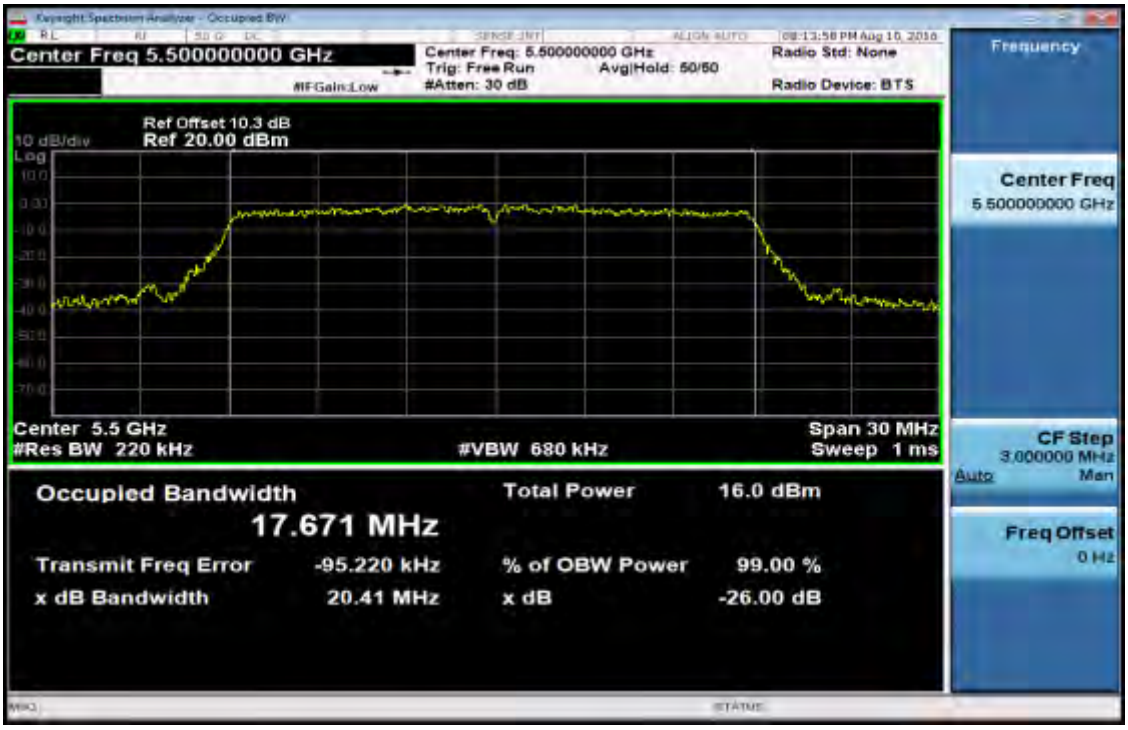
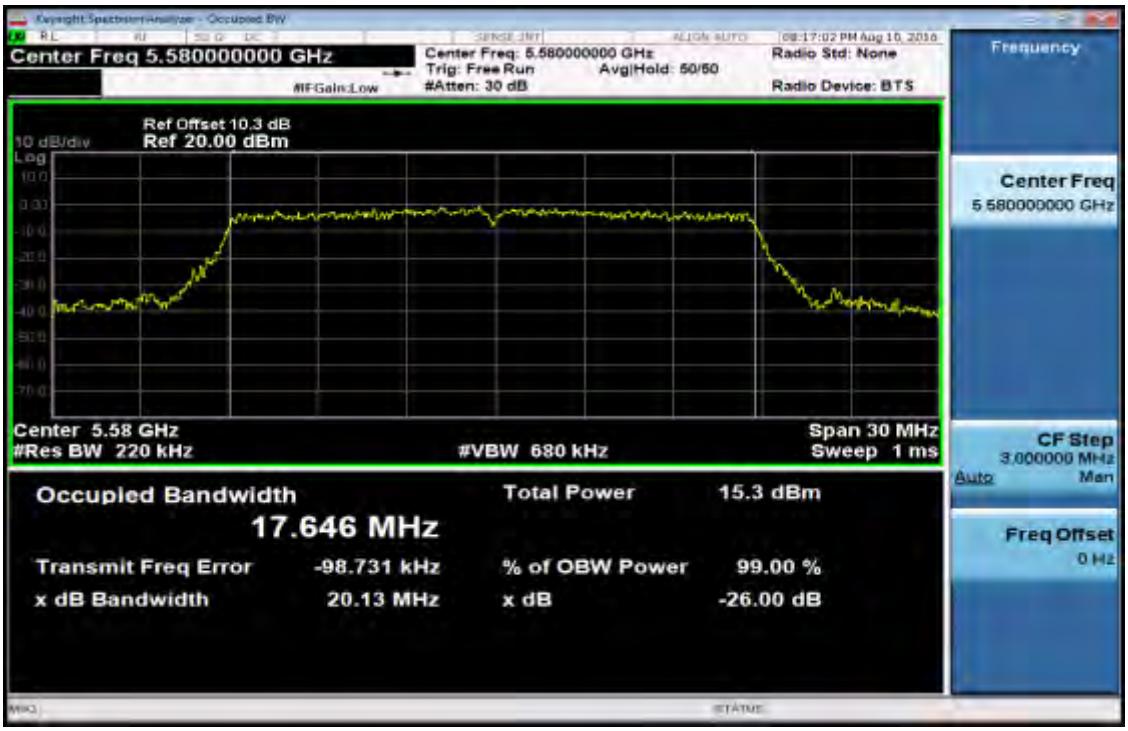
## 802.11n HT20 Mode Test Data Plot (5470MHz-5725MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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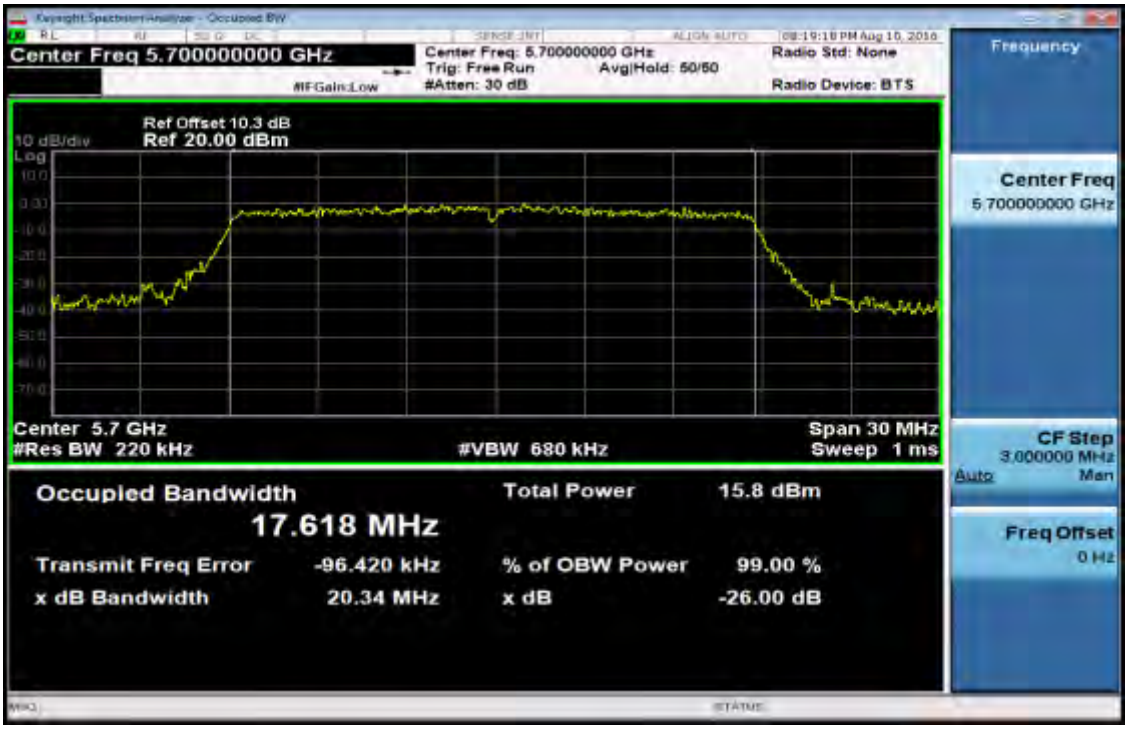
## CH High 發射頻寬量測值

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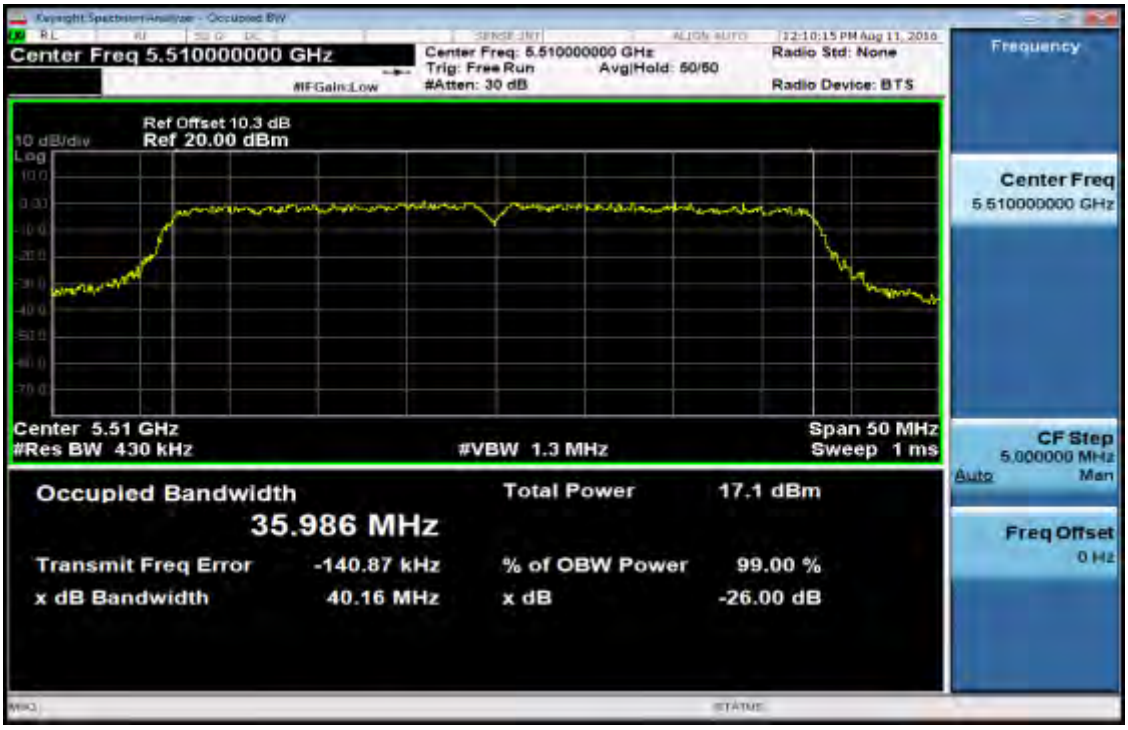
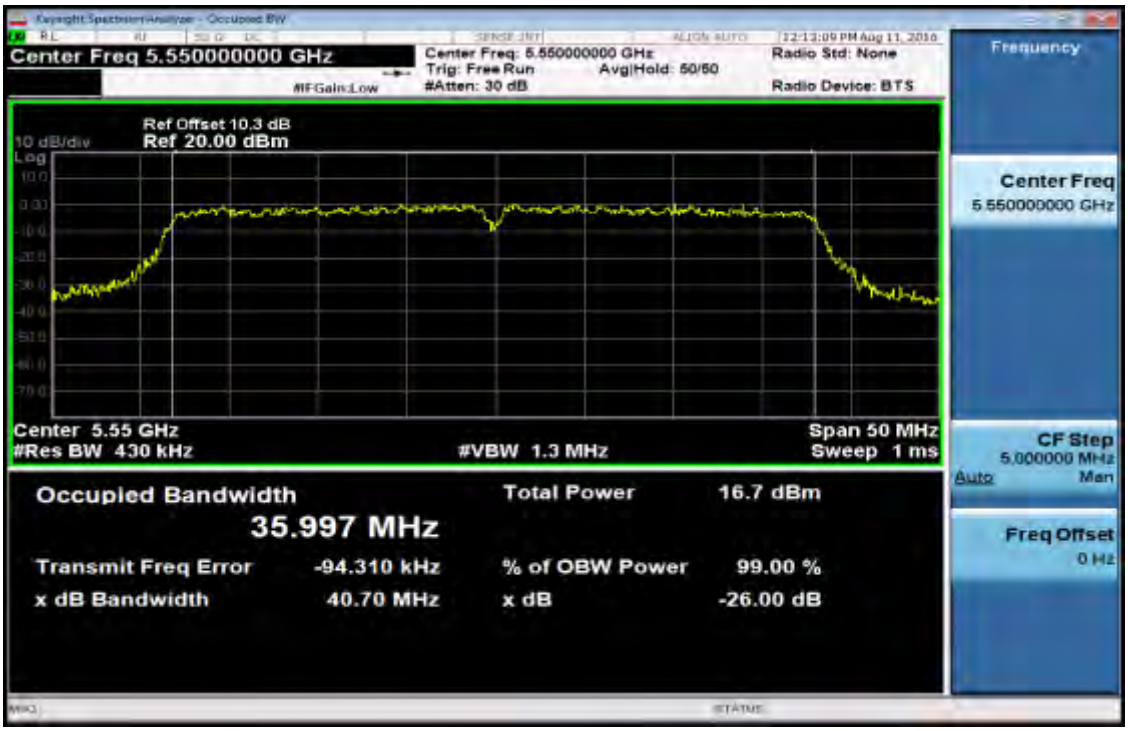
## 802.11n HT40 Mode Test Data Plot (5470MHz-5725MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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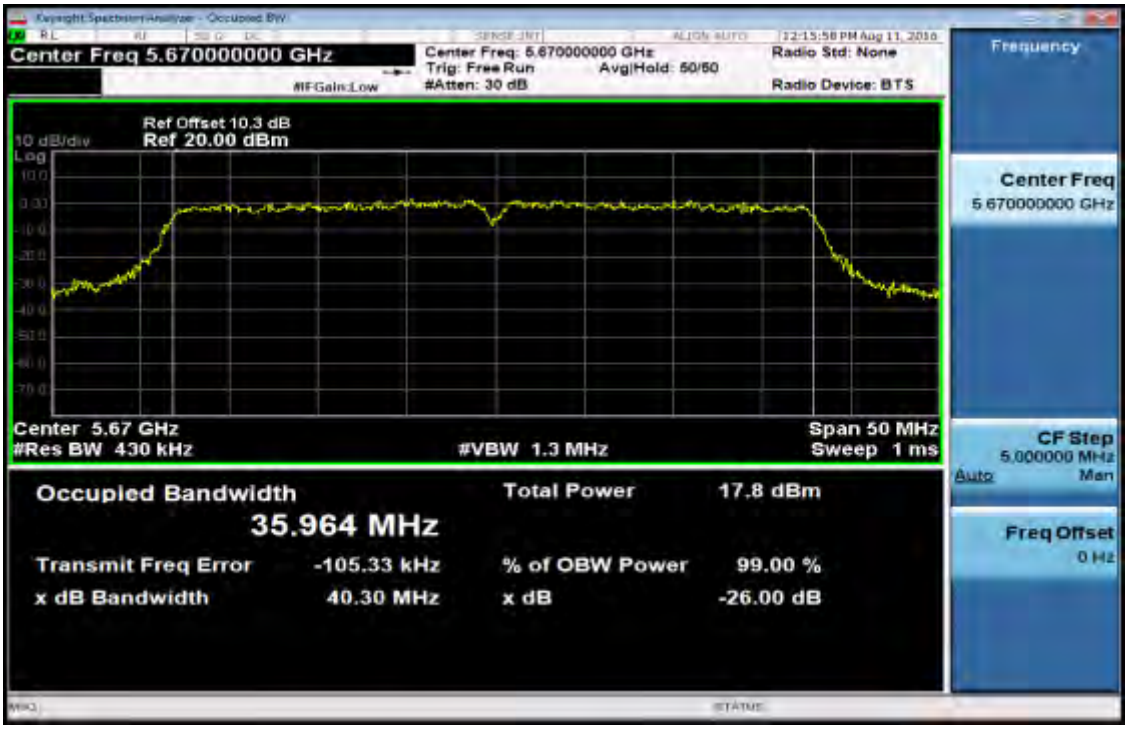
## CH High 發射頻寬量測值

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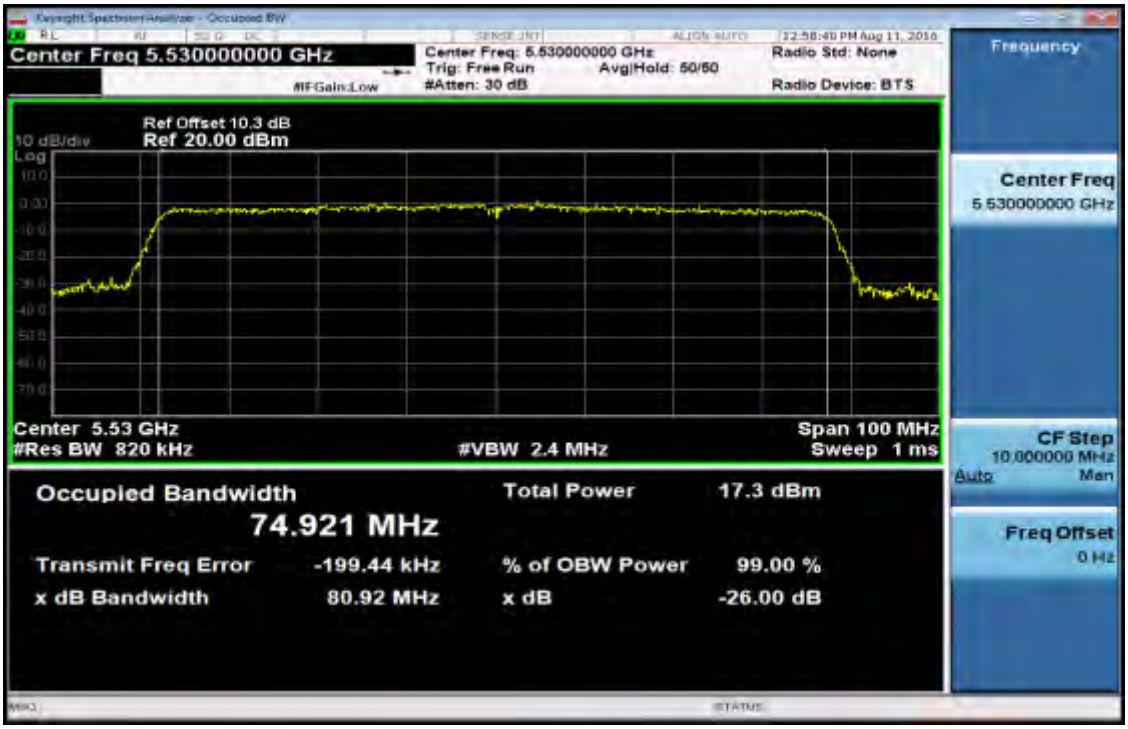
# 802.11ac VHT80 Mode Test Data Plot (5470MHz-5725MHz)
# CH MID 發射頻寬量測值

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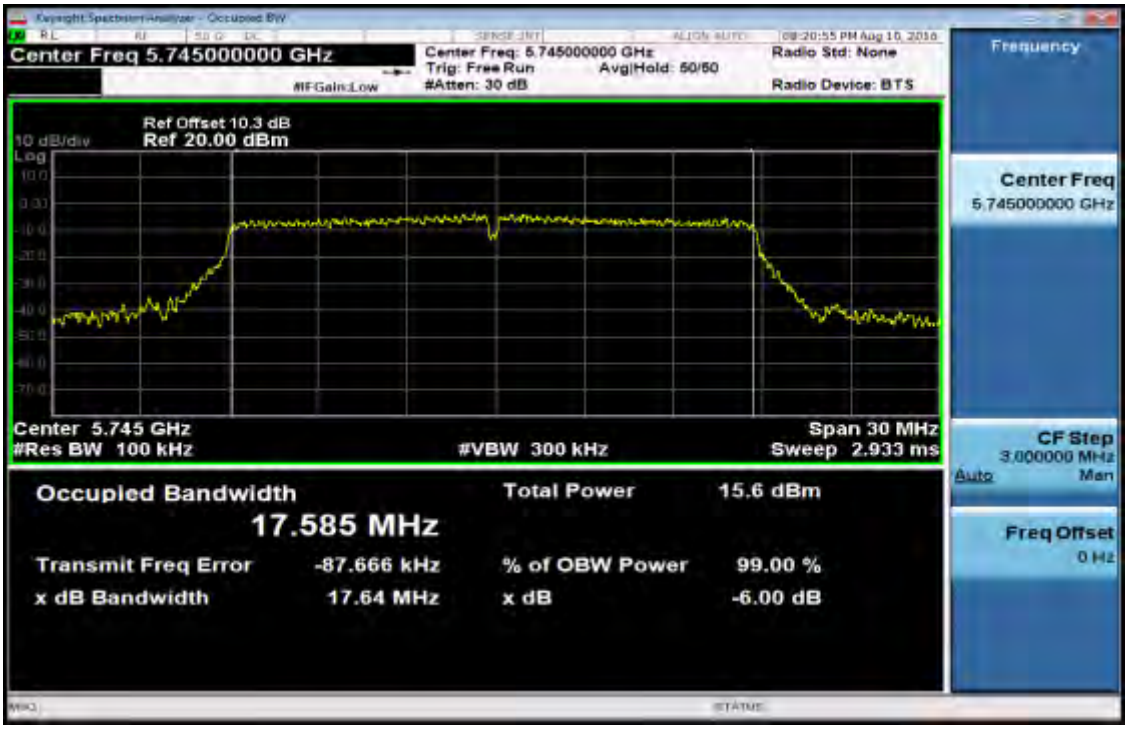
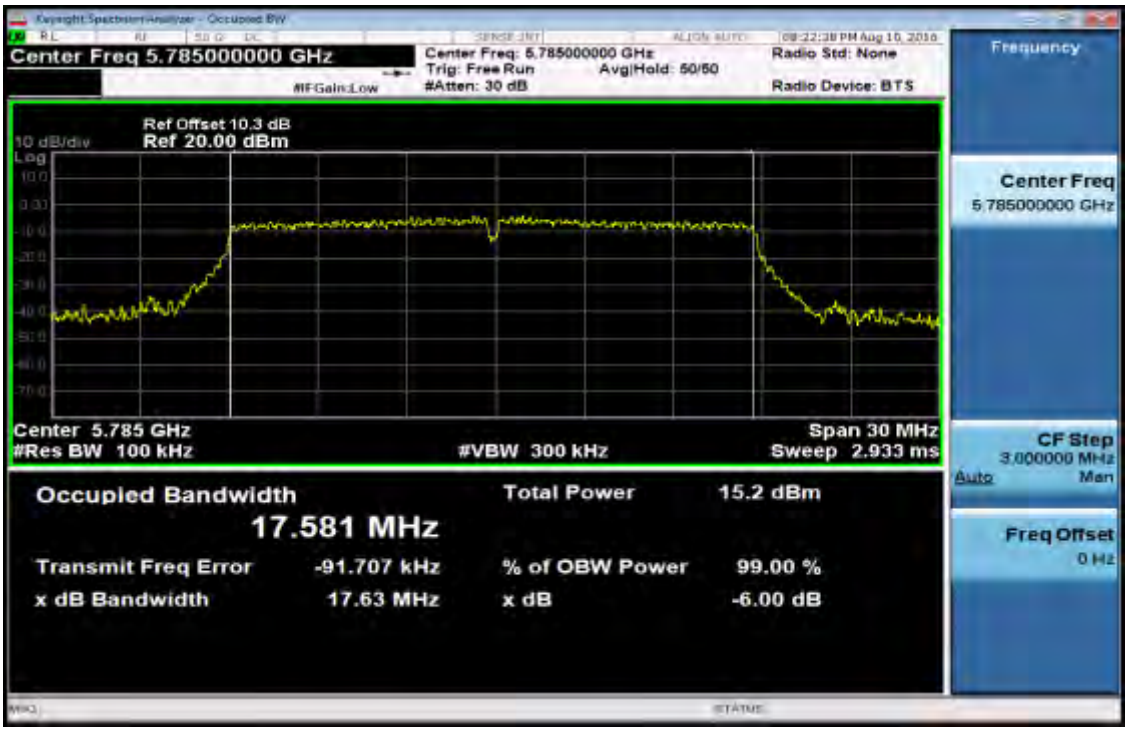
## 802.11n HT20 Mode Test Data Plot (5725MHz-5850MHz)

### CH Low 發射頻寬量測值




### CH Mid 發射頻寬量測值

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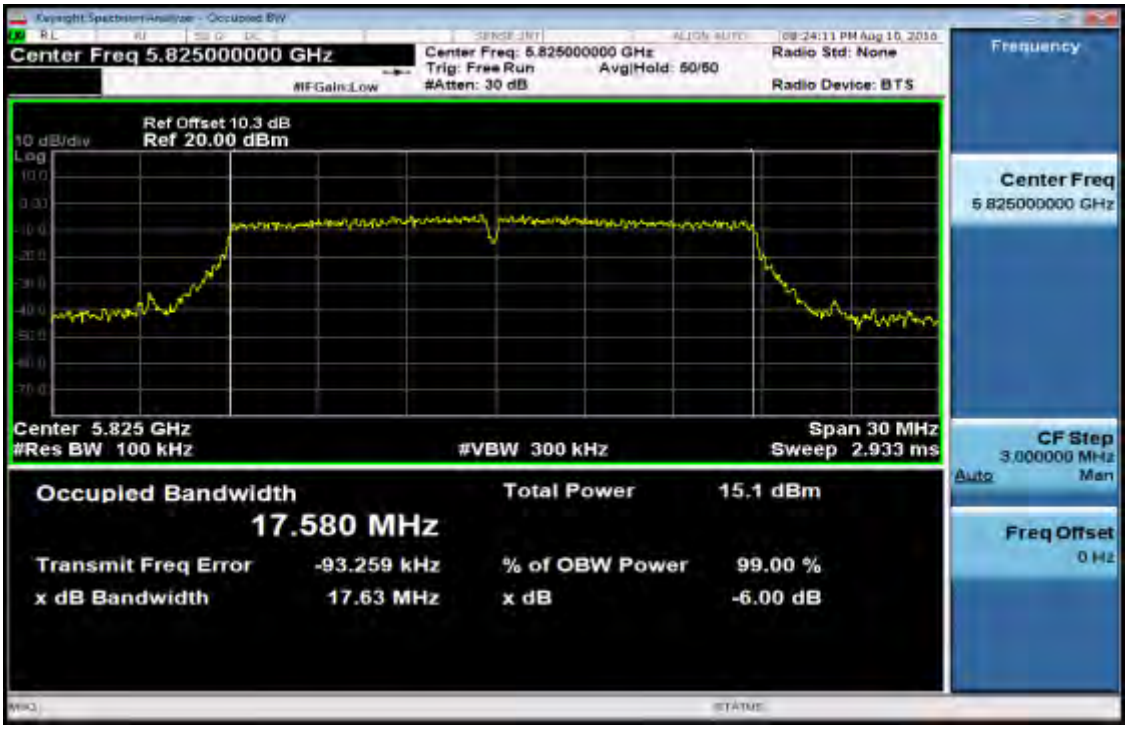
## CH High 發射頻寬量測值

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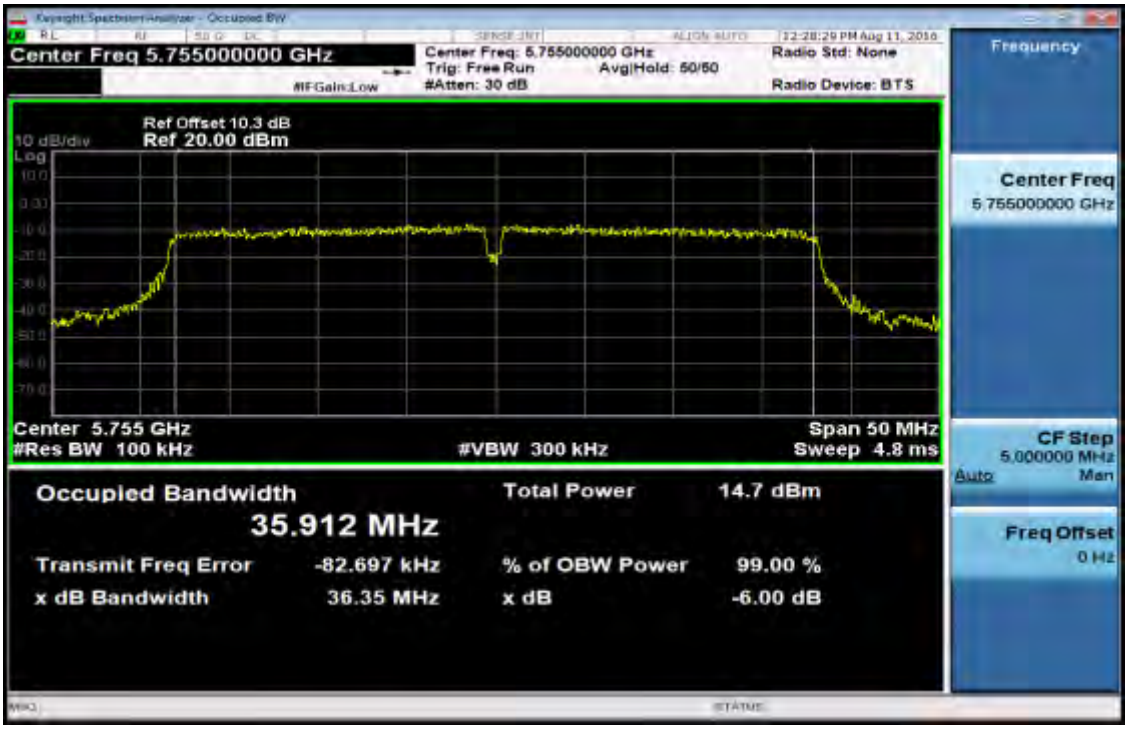
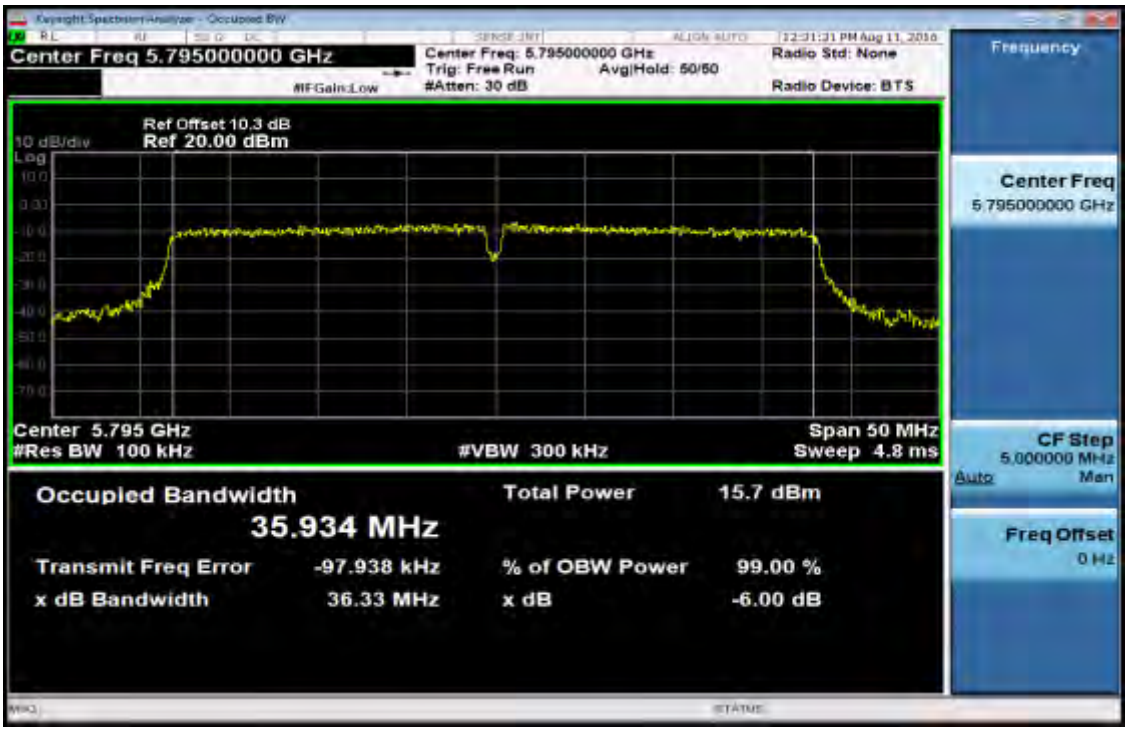
## 802.11n HT40 Mode Test Data Plot (5725MHz-5850MHz)

### CH Low 發射頻寬量測值




### CH High 發射頻寬量測值

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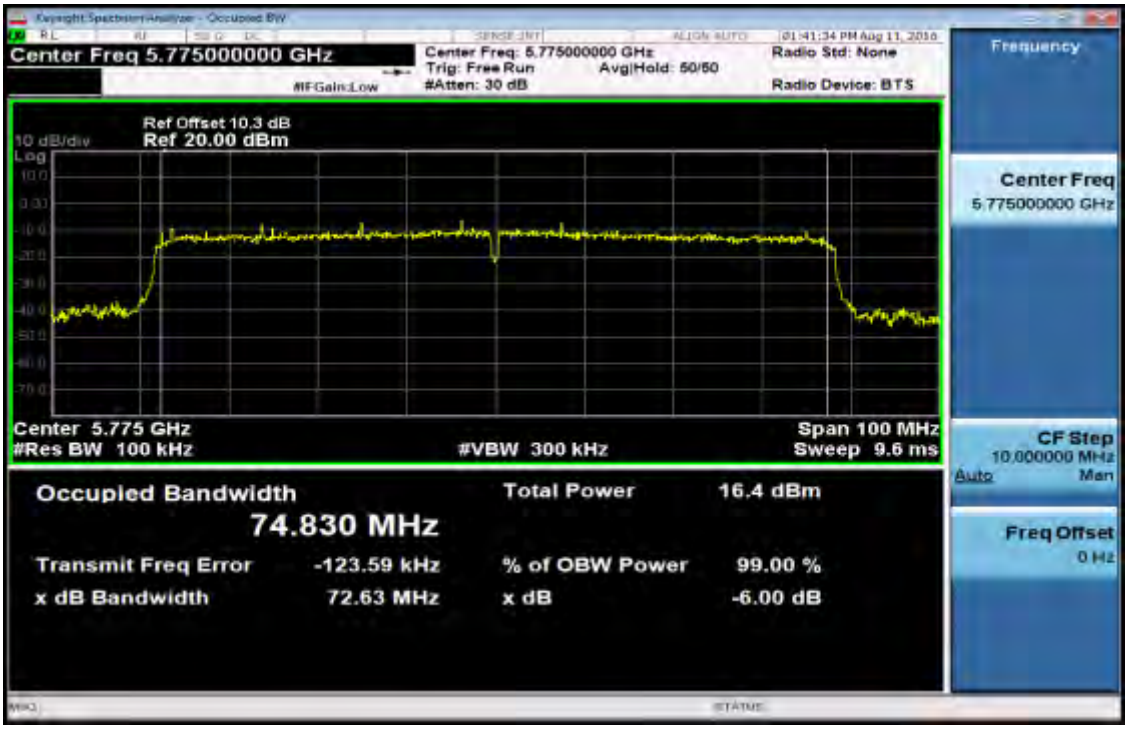
# 802.11ac VHT80 Mode Test Data Plot (5725MHz-5850MHz)
# CH MID 發射頻寬量測值

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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。

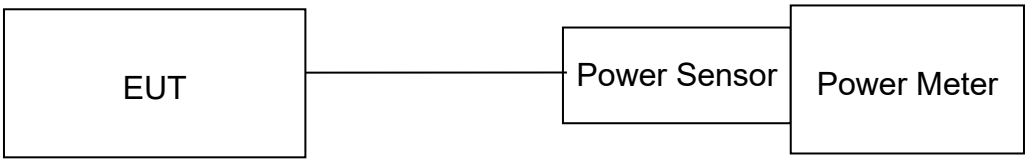
(3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。

(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*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 Combo Module　　型號: WBU034-EA

6dB 頻寬: 1MHz　　視頻頻寬: 3MHz

Span: 30MHz/60MHz　　測試日期: Aug/12/2016

環境溫度: 25℃　　環境濕度: 60%

測試者: 曾建榮

**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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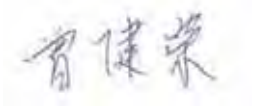
## 10.4功率密度量測結果

測試設備: 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module　　型號: WBU034-EA

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℃　　環境濕度: 60%

測試者: 

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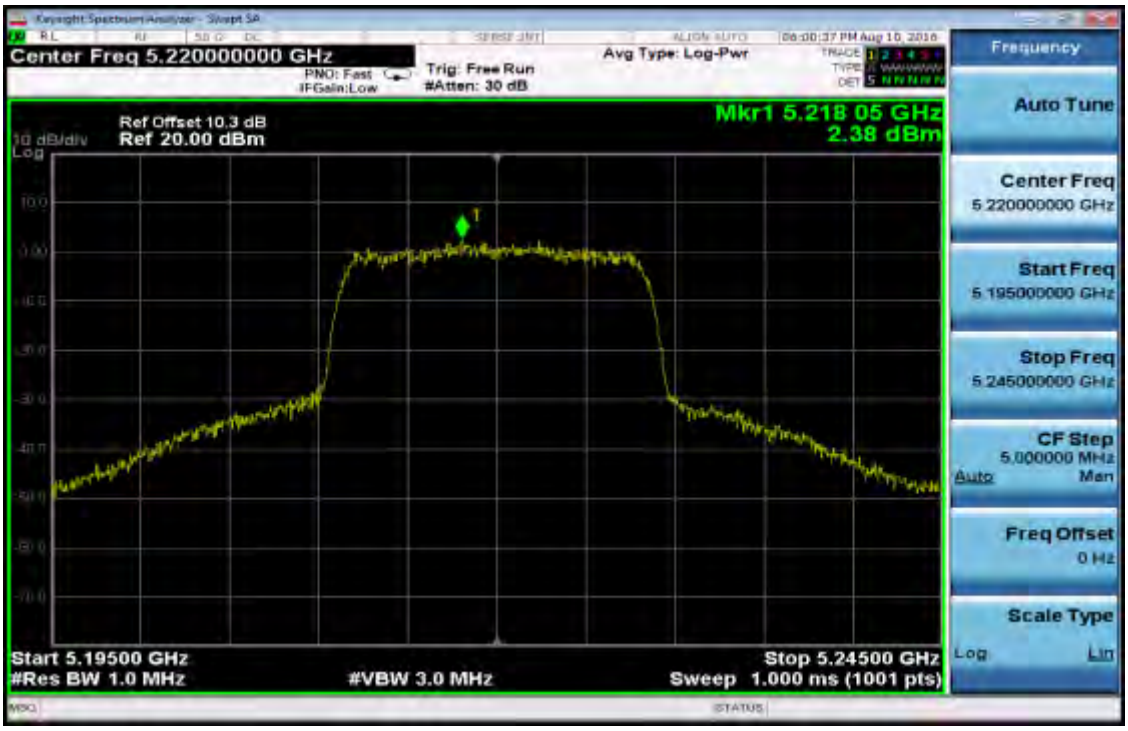
## 802.11a Mode Test Data Plot (5150MHz-5250MHz)

### 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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