

報告編號: RTBVEN-WTW-P20110509-1

| 行動寬頻業務寬頻終端設備測試報告                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--|
| 產品名稱                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WWAN Module                                                    |  |
| 申請廠商                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Telit Communications S.p.A.                                    |  |
| 製造廠商                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Telit Communications S.p.A.                                    |  |
| 商標或廠牌                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Telit                                                          |  |
| 型號                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LN960A9                                                        |  |
| 該產品樣品試驗<br>依據之試驗標準                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 國家通訊傳播委員會<br>行動寬頻業務寬頻終端設備技術規範【PLMN10】，<br>修定日期：107 年 03 月 12 日 |  |
| 試驗結果                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 合格                                                             |  |
| 填發本檢驗報告之檢驗機構                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                |  |
| 香港商立德國際商品試驗有限公司桃園分公司 新竹實驗室<br>實驗室認可編號：TAF 2022<br>實驗室地址：<br>300 新竹市科學工業園區力行一路 1 號 E-2<br>受理日期：108 年 12 月 26 日<br>完成日期：109 年 1 月 07 日<br>發行日期：109 年 12 月 16 日<br>報告簽署人簽章：<br><div style="text-align: center;">  </div> <div style="display: flex; justify-content: center; align-items: center; margin-top: 20px;">   </div> |                                                                |  |

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## 報告發行紀錄

| Issue No.              | Description       | Date Issued     |
|------------------------|-------------------|-----------------|
| RTBVEN-WTW-P20110509-1 | Original release. | 109 年 12 月 16 日 |

## 證 明 書

產 品 名 稱：WWAN Module  
商 標：Telit  
型 號：LN960A9  
申 請 者：Telit Communications S.p.A.  
量 測 規 範：行動寬頻業務寬頻終端設備技術規範【PLMN10】(修定日期：107 年 03 月 12 日)

香港商立德國際商品試驗有限公司桃園分公司在此證明上述待測設備樣品一台(型號：LN960A9)，收件日期 108 年 12 月 26 日，於 109 年 01 月 07 日，已在本公司的標準測試場地完成量測。報告中所描述之測試結果和待測設備的架構組合，均根據樣品實際的量測情況作詳實的記錄。

立德桃園分公司依“行動寬頻業務寬頻終端設備技術規範”製作測試結果報告。

特 此 證 明 ！

報告製作者： 黃健琳，日期： 109 年 12 月 16 日  
黃健琳 / 專員  
審核者： 陳瓊美，日期： 109 年 12 月 16 日  
陳瓊美 / 經理

**香港商立德國際商品試驗有限公司桃園分公司**

實驗室地址：300 新竹市科學工業園區力行一路 1 號 E-2

此份報告不得摘錄複製，除全份複製外，需經實驗室書面同意。



## 1. 行動寬頻業務寬頻終端設備量測記錄表

申請廠商：Telit Communications S.p.A.  
製造廠商：Telit Communications S.p.A.  
申請廠商地址：Viale Stazione di Prosecco 5/b, Trieste, 34010, Italy  
廠牌：Telit  
產品名稱：WWAN Module  
型號：LN960A9  
量測單位名稱：香港商立德國際商品試驗有限公司桃園分公司 新竹實驗室  
量測單位地址：300 新竹市科學工業園區力行一路 1 號 E-2  
量測單位認可編號：TAF 2022  
量測單位聯絡電話：03-6668565  
量測規範：行動寬頻業務寬頻終端設備技術規範【PLMN10】(修定日期：107 年 03 月 12 日)

| 項次 | 量測項目            | 規 範                      | 量測結果判定   |
|----|-----------------|--------------------------|----------|
| 1  | 發射功率            | 行動寬頻業務寬頻終端設備技術規範 5.1 章節  | 合格 (註 1) |
| 2  | 發射頻譜波罩          | 行動寬頻業務寬頻終端設備技術規範 5.2 章節  | 合格 (註 1) |
| 3  | 傳導帶外輻射發射        | 行動寬頻業務寬頻終端設備技術規範 5.3 章節  | 合格 (註 1) |
| 4  | 相鄰頻道洩漏功率比(ACLR) | 行動寬頻業務寬頻終端設備技術規範 5.4 章節  | 合格 (註 1) |
| 5  | 頻率容許差度          | 行動寬頻業務寬頻終端設備技術規範 5.5 章節  | 合格 (註 1) |
| 6  | 災防告警細胞廣播訊息接收功能  | 行動寬頻業務寬頻終端設備技術規範 5.11 章節 | 見註 2     |
| 7  | 電波功率密度          | 行動寬頻業務寬頻終端設備技術規範 5.7 章節  | 合格 (註 1) |

註 1: 請參考原始報告 RT180321E03Y-1。

2: 此為移動式行動台產品，免評估災防告警細胞廣播訊息接收功能。

備註: 量測結果之判定不考慮量測不確定度的貢獻。

## 2. 一般敘述

### 2.1 待測設備

|        |                                                                                                                                                                                                                                                                                                                                                                    |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 產品名稱：  | WWAN Module                                                                                                                                                                                                                                                                                                                                                        |
| 型號：    | LN960A9                                                                                                                                                                                                                                                                                                                                                            |
| 額定電源：  | 3.3Vdc from host equipment                                                                                                                                                                                                                                                                                                                                         |
| 頻帶：    | LTE Band 1: 1920~1980 MHz<br>LTE Band 3: 1710~1785 MHz<br>LTE Band 7: 2500~2570 MHz<br>LTE Band 8: 885~915 MHz<br>LTE Band 28: 703 ~748 MHz<br>LTE Band 38: 2570~2620 MHz<br>LTE Band 41: 2500~2690 MHz                                                                                                                                                            |
| 工作頻寬：  | LTE Band 1: 5 MHz, 10 MHz, 15 MHz, 20 MHz<br>LTE Band 3: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz<br>LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz<br>LTE Band 8: 1.4 MHz, 3 MHz, 5 MHz, 10MHz<br>LTE Band 28: 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz<br>LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz<br>LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz                   |
| 量測功率：  | 傳導輸出<br>LTE Band 1: 24.37dBm<br>LTE Band 3: 24.14dBm<br>LTE Band 7: 24.69dBm<br>LTE Band 8: 24.12dBm<br>LTE Band 28: 24.14dBm<br>LTE Band 38: 24.65dBm<br>LTE Band 41: 24.21dBm<br>等效輻射<br>LTE Band 1: 26.88dBm<br>LTE Band 3: 27.98dBm<br>LTE Band 7: 27.74dBm<br>LTE Band 8: 24.55dBm<br>LTE Band 28: 26.16dBm<br>LTE Band 38: 27.32dBm<br>LTE Band 41: 27.44dBm |
| 發射模式：  | 1 Tx / 2Rx                                                                                                                                                                                                                                                                                                                                                         |
| 天線種類：  | 見註                                                                                                                                                                                                                                                                                                                                                                 |
| 電源線類別： | NA                                                                                                                                                                                                                                                                                                                                                                 |
| 信號線類別： | NA                                                                                                                                                                                                                                                                                                                                                                 |
| 配件：    | NA                                                                                                                                                                                                                                                                                                                                                                 |

註

1. 此待測設備為 WWAN Module 與<原廠牌: FOXCONN、型號: T77W968C9、報告號碼: RT180321E03Y-1 (NCC ID: CCAI204G0080T9)>，其電路設計完全相同，僅因變更申請者、製造商、廠牌及型號，以供市場行銷需求，因此報告中所描述之測試結果和待測設備的架構組合，均根據原認可試驗報告所記載測試記錄完全相同。
2. 從原始測試報告（報告編號：RT180321E03Y-1）複製的測試數據已獲得申請者和廠牌公司的授權。
3. 本次申請之待測設備具有二種規格(請參閱下表)，經評估模式 A 具較大干擾值，故以此模式進行最終量測，並將測試結果記錄於報告中。

請參照至原報告號碼：RT180321E03Y-1

| 模式 | 差異說明                   |
|----|------------------------|
| A  | Without e-SIM          |
| B  | With e-SIM(多一個零件U1099) |

4. 此待測設備搭配測試的天線，其資料如下：

| Antenna No. | Brand   | Model           | Antenna Net Gain(dBi)       | Frequency range (MHz)                                                               | Antenna Type | Connector Type | Cable Length |
|-------------|---------|-----------------|-----------------------------|-------------------------------------------------------------------------------------|--------------|----------------|--------------|
| 1           | TongDa  | T-543-8201115-1 | Please refer to below table | 699~803                                                                             | PIFA         | i-pex(MHF)     | 100mm        |
| 2           | TongDa  | T-543-8201115-2 | Please refer to below table | 791~960<br>1447.9~1606                                                              | PIFA         | i-pex(MHF)     | 100mm        |
| 3           | TongDa  | T-543-8201115-3 | Please refer to below table | 1710~2170<br>2500~2690                                                              | PIFA         | i-pex(MHF)     | 100mm        |
| 4           | Hong-Bo | 260-24243       | Please refer to below table | 704-821<br>824-960<br>1470-1515<br>1710-2170<br>2500-2690<br>3400-3800<br>5150-5875 | Monopole     | i-pex(MHF)     | 120mm        |

| Antenna gain list |                   |                  |                  |                  |                  |
|-------------------|-------------------|------------------|------------------|------------------|------------------|
| Band              | Freq. Range (MHz) | Ant 1 Gain (dBi) | Ant 2 Gain (dBi) | Ant 3 Gain (dBi) | Ant 4 Gain (dBi) |
| LTE Band (1)      | 1920~1980         | -                | -                | 4.66             | 1.42             |
| LTE Band (3)      | 1710~1785         | -                | -                | 5.99             | 2.52             |
| LTE Band (7)      | 2500~2570         | -                | -                | 5.2              | 3.74             |
| LTE Band (8)      | 885~915           | -                | 2.58             | -                | 2.44             |
| LTE Band (28)     | 703 ~748          | 4.17             | -                | -                | 1.06             |
| LTE Band (38)     | 2570~2620         | -                | -                | 4.82             | 2.57             |
| LTE Band (41)     | 2500~2690         | -                | -                | 5.38             | 3.74             |

5. 原認可試驗報告<原報告號碼: RT180321E03Y-1 >之 IMEI: 359235100026581 為測試時專用的 IMEI 號碼，上市時之 IMEI 請參考電信終端設備審驗切結書。

LTE / LTE-A

CONNECTED

Power: **-85.00** dBm/15kHz  
DL Freq: **1960.00** MHz  
UL Freq: **1880.00** MHz

**PCC / FDD**  
DL BW: **5** MHz  
Band: **2**

OFF

Power: **-85.00** dBm/15kHz  
DL EARFCN: **300**  
UL EARFCN: **18300**

**SCC / FDD**  
DL BW: **10** MHz  
Band: **1**

UE Reported Info

UE Measurement Reports

UE Capability

MAC Information

Power Headroom Index: **37**
Pmax: **23** dBm
Tx Power: **8.00**

Clear MAC Info

UE Information

LTE Supported Bands: **1,2,3,4,5,7,8,12,13,14,17,18,19,20,25,26,28,29,30,32,38,39,40,41,66**

UE IMEI: **359235100026581**

Request IMEI

UE IMSI: **001012345678901**

Request IMSI

Access Stratum Release: **Release 12**

UE Category: **6** (DL) **5** (UL)

Feature Group Indicators (Hex): **7F0FFC9E** (R8) **---** (R9) **7CE40000** (R10)

Clear UE Info

| Index | Band Combination | CA Support |
|-------|------------------|------------|
| 0     | 2                | U/D        |
| 1     | 7                | U/D        |
| 2     | 3                | U/D        |
| 3     | 8                | U/D        |
| 4     | 1                | U/D        |
| 5     | 28               | U/D        |
| 6     | 4                | U/D        |
| 7     | 5                | U/D        |
| 8     | 12               | U/D        |
| 9     | 13               | U/D        |
| 10    | 14               | U/D        |
| 11    | 17               | U/D        |
| 12    | 18               | U/D        |
| 13    | 19               | U/D        |
| 14    | 20               | U/D        |
| 15    | 25               | U/D        |

此裝置測試中心頻率如下：

#### LTE Band 1

| Bandwidth | 頻道    | 對應頻率<br>(MHz) | Bandwidth | 頻道    | 對應頻率<br>(MHz) |
|-----------|-------|---------------|-----------|-------|---------------|
| 5MHz      | 18025 | 1922.5        | 20MHz     | 18100 | 1930.0        |
|           | 18300 | 1950.0        |           | 18300 | 1950.0        |
|           | 18575 | 1977.5        |           | 18500 | 1970.0        |

#### LTE Band 3

| Bandwidth | 頻道    | 對應頻率<br>(MHz) | Bandwidth | 頻道    | 對應頻率<br>(MHz) |
|-----------|-------|---------------|-----------|-------|---------------|
| 1.4MHz    | 19207 | 1710.7        | 5MHz      | 19225 | 1712.5        |
|           | 19575 | 1747.5        |           | 19575 | 1747.5        |
|           | 19943 | 1784.3        |           | 19925 | 1782.5        |
| Bandwidth | 頻道    | 對應頻率<br>(MHz) | Bandwidth | 頻道    | 對應頻率<br>(MHz) |
| 10MHz     | 19250 | 1715.0        | 15MHz     | 19275 | 1717.5        |
|           | 19575 | 1747.5        |           | 19575 | 1747.5        |
|           | 19900 | 1780.0        |           | 19875 | 1777.5        |
| Bandwidth | 頻道    | 對應頻率<br>(MHz) |           |       |               |
| 20MHz     | 19300 | 1720.0        |           |       |               |
|           | 19575 | 1747.5        |           |       |               |
|           | 19850 | 1775.0        |           |       |               |

### LTE Band 7

| Bandwidth | 頻道    | 對應頻率 (MHz) | Bandwidth | 頻道    | 對應頻率 (MHz) |
|-----------|-------|------------|-----------|-------|------------|
| 5MHz      | 20775 | 2502.5     | 10MHz     | 20800 | 2505.0     |
|           | 21100 | 2535.0     |           | 21100 | 2535.0     |
|           | 21425 | 2567.5     |           | 21400 | 2565.0     |
| Bandwidth | 頻道    | 對應頻率 (MHz) | Bandwidth | 頻道    | 對應頻率 (MHz) |
| 15MHz     | 20825 | 2507.5     | 20MHz     | 20850 | 2510.0     |
|           | 21100 | 2535       |           | 21100 | 2535.0     |
|           | 21375 | 2562.5     |           | 21350 | 2560.0     |

### LTE Band 8

| Bandwidth | 頻道    | 對應頻率 (MHz) | Bandwidth | 頻道    | 對應頻率 (MHz) |
|-----------|-------|------------|-----------|-------|------------|
| 1.4MHz    | 21507 | 885.7      | 5MHz      | 21525 | 887.5      |
|           | 21650 | 900.0      |           | 21650 | 900.0      |
|           | 21793 | 914.3      |           | 21775 | 912.5      |
| Bandwidth | 頻道    | 對應頻率 (MHz) |           |       |            |
| 10MHz     | 21550 | 890.0      |           |       |            |
|           | 21650 | 900.0      |           |       |            |
|           | 21750 | 910.0      |           |       |            |

### LTE Band 28

| Bandwidth | 頻道    | 對應頻率 (MHz) | Bandwidth | 頻道    | 對應頻率 (MHz) |
|-----------|-------|------------|-----------|-------|------------|
| 3MHz      | 27225 | 704.5      | 5MHz      | 27235 | 705.5      |
|           | 27430 | 725.0      |           | 27430 | 725.0      |
|           | 27645 | 746.5      |           | 27635 | 745.5      |
| Bandwidth | 頻道    | 對應頻率 (MHz) |           |       |            |
| 20MHz     | 27310 | 713.0      |           |       |            |
|           | 27430 | 725.0      |           |       |            |
|           | 27560 | 738.0      |           |       |            |

### LTE Band 38

| Bandwidth | 頻道    | 對應頻率 (MHz) | Bandwidth | 頻道    | 對應頻率 (MHz) |
|-----------|-------|------------|-----------|-------|------------|
| 5MHz      | 37775 | 2572.5     | 15MHz     | 37825 | 2577.5     |
|           | 38000 | 2595.0     |           | 38000 | 2595       |
|           | 38225 | 2617.5     |           | 38175 | 2612.5     |
| Bandwidth | 頻道    | 對應頻率 (MHz) |           |       |            |
| 20MHz     | 37850 | 2580.0     |           |       |            |
|           | 38000 | 2595.0     |           |       |            |
|           | 38150 | 2610.0     |           |       |            |

# LTE Band 41

| Bandwidth | 頻道    | 對應頻率 (MHz) | Bandwidth | 頻道    | 對應頻率 (MHz) |
|-----------|-------|------------|-----------|-------|------------|
| 5MHz      | 39715 | 2502.5     | 10MHz     | 39740 | 2505.0     |
|           | 40640 | 2595.0     |           | 40640 | 2595.0     |
|           | 41565 | 2687.5     |           | 41540 | 2685.0     |
| Bandwidth | 頻道    | 對應頻率 (MHz) | Bandwidth | 頻道    | 對應頻率 (MHz) |
| 15MHz     | 39765 | 2507.5     | 20MHz     | 39790 | 2510.0     |
|           | 40640 | 2595       |           | 40640 | 2595.0     |
|           | 41515 | 2682.5     |           | 41490 | 2680.0     |

\*詳細之規格請參考使用說明書，產品的照片請參照 BV 編號: BVEN-WTW-P20110509-1。

## 2.2 輔助測試之週邊設備描述

此待測設備於受測時無須搭配一般用途之相關設備，故採獨立測試。

### 3. 發射功率

#### 3.1 適用標準

(1) 有效輻射功率(Effective Radiated Power, ERP)

手持式行動臺限制為 1 瓦特(W)。

移動式行動臺限制為 2 瓦特(W)。

(2) 傳導輸出功率限制值

採 FDD 者：23 毫瓦分貝(dBm) +2.7/-3.2 分貝 (dB)。

採 TDD 者：23 毫瓦分貝(dBm) +2.7/-2.7 分貝 (dB)，但設備屬高功率用戶終端設備(High Power User Equipment, HPUE)者，其傳導輸出功率限制限制值為 26 dBm +2.7/-2.7 dB。

#### 3.2 量測方法

(1) 在正常條件下執行測試。

(2) 量測時應使用解析頻寬設定為 1 MHz 以上的頻譜分析量測儀器執行量測，並選擇 Channel Power 模式執行。

(3) 檢測頻道為低、中、高三個頻道，並分別對最低、5MHz 及最高之工作頻寬，依下表進行檢測。

(4) 由 RF 輸出埠直接量測輸出功率。

| 頻道頻寬   | 下行結構             | 上行結構 |        |     |
|--------|------------------|------|--------|-----|
|        |                  | 調變方式 | 資源區塊分配 |     |
|        |                  |      | FDD    | TDD |
| 1.4MHz | 行動台設備最大發射功率測試不適用 | QPSK | 1      | 1   |
| 1.4MHz |                  | QPSK | 5      | 5   |
| 3MHz   |                  | QPSK | 1      | 1   |
| 3MHz   |                  | QPSK | 4      | 4   |
| 5MHz   |                  | QPSK | 1      | 1   |
| 5MHz   |                  | QPSK | 8      | 8   |
| 10MHz  |                  | QPSK | 1      | 1   |
| 10MHz  |                  | QPSK | 12     | 12  |
| 15MHz  |                  | QPSK | 1      | 1   |
| 15MHz  |                  | QPSK | 16     | 16  |
| 20MHz  |                  | QPSK | 1      | 1   |
| 20MHz  |                  | QPSK | 18     | 18  |

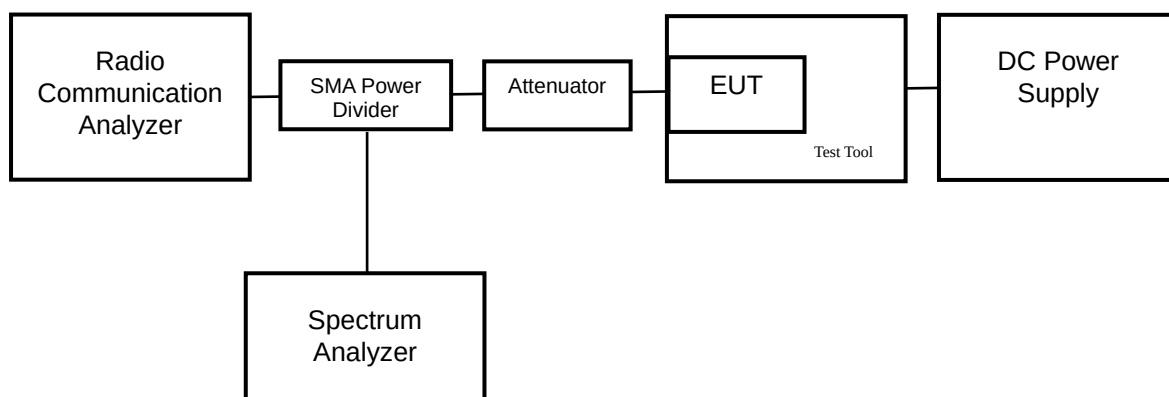
註：RB offset 設定值及應檢項目之測試方法，依 3GPP TS 36.521 技術標準規定。

#### 3.3 量測儀器

| Description & Manufacturer                   | Model No. | Serial No. | Date of Calibration | Due Date of Calibration |
|----------------------------------------------|-----------|------------|---------------------|-------------------------|
| LTE Wireless Communication Test Set Keysight | E7515A    | MY55340229 | May 29, 2019        | May 28, 2020            |

**NOTE:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 3.4 測試配置



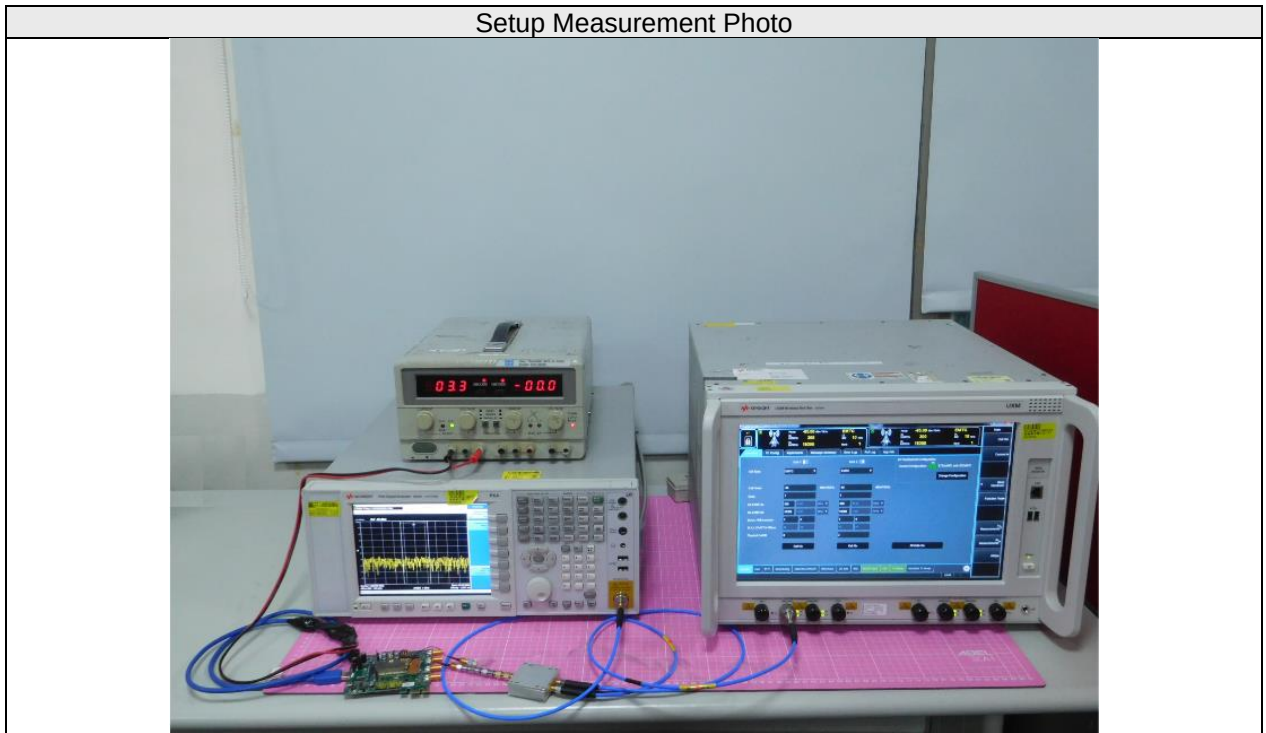
#### 3.4.1 測試設備

| Description & Manufacturer                                | Model No.            | Serial No.  | Date of Calibration | Due Date of Calibration |
|-----------------------------------------------------------|----------------------|-------------|---------------------|-------------------------|
| Radio Communication Analyzer<br>Keysight                  | E7515A               | MY55340229  | May 29, 2019        | May 28, 2020            |
| Spectrum Analyzer<br>Keysight                             | N9030A               | MY55330160  | Jan. 28, 2019       | Jan. 27, 2020           |
| DC Power Supply<br>GOOD WILL INSTRUMENT<br>CO., LTD.      | GPC-3030D            | 7700087     | -                   | -                       |
| Standard Temperature &<br>Humidity Chamber<br>Giant Force | GTH-150-40-<br>SP-AR | MAA0812-008 | Jan. 09, 2019       | Jan. 08, 2020           |

#### 3.4.2 測試周邊

| Kind of Equipment | Model No.     | Manufacturer       | Serial No.        |
|-------------------|---------------|--------------------|-------------------|
| SMA Power Divider | STI08-008     | Solvang Technology | STI08-008_11      |
| Attenuator        | STI02-3309-10 | Solvang Technology | STI02-3309-10_012 |
| Test Tool         | Test001       | Foxconn            | 00001             |

### 3.4.3 測試照



### 3.5 量測結果

|        |      |        |       |
|--------|------|--------|-------|
| 操作模式   | 發射   | 測試者    | 林俊鈞   |
| 量測場地溫度 | 22°C | 量測場地濕度 | 63%RH |

#### LTE Band 1

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 18025         | 1922.5      | QPSK | 1RB#0            | 24.37        | 19.8         | 25.7 | Pass                    | 2.51          | 26.88        | 33           | Pass                    |
|               |             |      | 1RB#12           | 24.02        | 19.8         | 25.7 | Pass                    | 2.51          | 26.53        | 33           | Pass                    |
|               |             |      | 1RB#24           | 24.16        | 19.8         | 25.7 | Pass                    | 2.51          | 26.67        | 33           | Pass                    |
| 18300         | 1950        | QPSK | 1RB#0            | 23.98        | 19.8         | 25.7 | Pass                    | 2.51          | 26.49        | 33           | Pass                    |
|               |             |      | 1RB#12           | 24.11        | 19.8         | 25.7 | Pass                    | 2.51          | 26.62        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.98        | 19.8         | 25.7 | Pass                    | 2.51          | 26.49        | 33           | Pass                    |
| 18575         | 1977.5      | QPSK | 1RB#0            | 24.09        | 19.8         | 25.7 | Pass                    | 2.51          | 26.6         | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.74        | 19.8         | 25.7 | Pass                    | 2.51          | 26.25        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.75        | 19.8         | 25.7 | Pass                    | 2.51          | 26.26        | 33           | Pass                    |

**Note:** 天線增益 (dBd) = 4.66 - 2.15 = 2.51

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 18025         | 1922.5      | QPSK | 8RB#0            | 24.07        | 19.8         | 25.7 | Pass                    | 2.51          | 26.58        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.93        | 19.8         | 25.7 | Pass                    | 2.51          | 26.44        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.97        | 19.8         | 25.7 | Pass                    | 2.51          | 26.48        | 33           | Pass                    |
| 18300         | 1950        | QPSK | 8RB#0            | 23.85        | 19.8         | 25.7 | Pass                    | 2.51          | 26.36        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.98        | 19.8         | 25.7 | Pass                    | 2.51          | 26.49        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.87        | 19.8         | 25.7 | Pass                    | 2.51          | 26.38        | 33           | Pass                    |
| 18575         | 1977.5      | QPSK | 8RB#0            | 23.95        | 19.8         | 25.7 | Pass                    | 2.51          | 26.46        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.63        | 19.8         | 25.7 | Pass                    | 2.51          | 26.14        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.49        | 19.8         | 25.7 | Pass                    | 2.51          | 26           | 33           | Pass                    |

**Note:** 天線增益 (dBd) = 4.66 - 2.15 = 2.51

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 18025         | 1922.5      | QPSK | 25RB#0           | 23.07        | 19.8         | 25.7 | Pass                    | 2.51          | 25.58        | 33           | Pass                    |
| 18300         | 1950        | QPSK | 25RB#0           | 23.11        | 19.8         | 25.7 | Pass                    | 2.51          | 25.62        | 33           | Pass                    |
| 18575         | 1977.5      | QPSK | 25RB#0           | 22.71        | 19.8         | 25.7 | Pass                    | 2.51          | 25.22        | 33           | Pass                    |

**Note:** 天線增益 (dBd) = 4.66 - 2.15 = 2.51

## LTE Band 1

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 18100         | 1930        | QPSK | 1RB#0            | 24.31        | 19.8         | 25.7 | Pass                    | 2.51          | 26.82        | 33           | Pass                    |
|               |             |      | 1RB#50           | 23.97        | 19.8         | 25.7 | Pass                    | 2.51          | 26.48        | 33           | Pass                    |
|               |             |      | 1RB#99           | 24.01        | 19.8         | 25.7 | Pass                    | 2.51          | 26.52        | 33           | Pass                    |
| 18300         | 1950        | QPSK | 1RB#0            | 23.92        | 19.8         | 25.7 | Pass                    | 2.51          | 26.43        | 33           | Pass                    |
|               |             |      | 1RB#50           | 24.03        | 19.8         | 25.7 | Pass                    | 2.51          | 26.54        | 33           | Pass                    |
|               |             |      | 1RB#99           | 23.76        | 19.8         | 25.7 | Pass                    | 2.51          | 26.27        | 33           | Pass                    |
| 18500         | 1970        | QPSK | 1RB#0            | 23.89        | 19.8         | 25.7 | Pass                    | 2.51          | 26.4         | 33           | Pass                    |
|               |             |      | 1RB#50           | 23.55        | 19.8         | 25.7 | Pass                    | 2.51          | 26.06        | 33           | Pass                    |
|               |             |      | 1RB#99           | 24.18        | 19.8         | 25.7 | Pass                    | 2.51          | 26.69        | 33           | Pass                    |

**Note:** 天線增益 (dBd) = 4.66 - 2.15 = 2.51

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 18100         | 1930        | QPSK | 18RB#0           | 24.21        | 19.8         | 25.7 | Pass                    | 2.51          | 26.72        | 33           | Pass                    |
|               |             |      | 18RB#42          | 23.93        | 19.8         | 25.7 | Pass                    | 2.51          | 26.44        | 33           | Pass                    |
|               |             |      | 18RB#82          | 24.01        | 19.8         | 25.7 | Pass                    | 2.51          | 26.52        | 33           | Pass                    |
| 18300         | 1950        | QPSK | 18RB#0           | 23.88        | 19.8         | 25.7 | Pass                    | 2.51          | 26.39        | 33           | Pass                    |
|               |             |      | 18RB#42          | 23.96        | 19.8         | 25.7 | Pass                    | 2.51          | 26.47        | 33           | Pass                    |
|               |             |      | 18RB#82          | 23.7         | 19.8         | 25.7 | Pass                    | 2.51          | 26.21        | 33           | Pass                    |
| 18500         | 1970        | QPSK | 18RB#0           | 23.99        | 19.8         | 25.7 | Pass                    | 2.51          | 26.5         | 33           | Pass                    |
|               |             |      | 18RB#42          | 23.53        | 19.8         | 25.7 | Pass                    | 2.51          | 26.04        | 33           | Pass                    |
|               |             |      | 18RB#82          | 23.6         | 19.8         | 25.7 | Pass                    | 2.51          | 26.11        | 33           | Pass                    |

**Note:** 天線增益 (dBd) = 4.66 - 2.15 = 2.51

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 18100         | 1930        | QPSK | 100RB#0          | 23.12        | 19.8         | 25.7 | Pass                    | 2.51          | 25.63        | 33           | Pass                    |
| 18300         | 1950        | QPSK | 100RB#0          | 23.17        | 19.8         | 25.7 | Pass                    | 2.51          | 25.68        | 33           | Pass                    |
| 18500         | 1970        | QPSK | 100RB#0          | 23.01        | 19.8         | 25.7 | Pass                    | 2.51          | 25.52        | 33           | Pass                    |

**Note:** 天線增益 (dBd) = 4.66 - 2.15 = 2.51

### LTE Band 3

| 工作頻寬 (MHz)    |             | 1.4  |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 19207         | 1710.7      | QPSK | 1RB#0            | 23.82        | 19.8         | 25.7 | Pass                    | 3.84          | 27.66        | 33           | Pass                    |
|               |             |      | 1RB#2            | 23.9         | 19.8         | 25.7 | Pass                    | 3.84          | 27.74        | 33           | Pass                    |
|               |             |      | 1RB#5            | 23.95        | 19.8         | 25.7 | Pass                    | 3.84          | 27.79        | 33           | Pass                    |
| 19575         | 1747.5      | QPSK | 1RB#0            | 24.05        | 19.8         | 25.7 | Pass                    | 3.84          | 27.89        | 33           | Pass                    |
|               |             |      | 1RB#2            | 24.14        | 19.8         | 25.7 | Pass                    | 3.84          | 27.98        | 33           | Pass                    |
|               |             |      | 1RB#5            | 24.06        | 19.8         | 25.7 | Pass                    | 3.84          | 27.9         | 33           | Pass                    |
| 19943         | 1784.3      | QPSK | 1RB#0            | 24.01        | 19.8         | 25.7 | Pass                    | 3.84          | 27.85        | 33           | Pass                    |
|               |             |      | 1RB#2            | 23.95        | 19.8         | 25.7 | Pass                    | 3.84          | 27.79        | 33           | Pass                    |
|               |             |      | 1RB#5            | 23.92        | 19.8         | 25.7 | Pass                    | 3.84          | 27.76        | 33           | Pass                    |

**Note:** 天線增益 (dBd) = 5.99 - 2.15 = 3.84

| 工作頻寬 (MHz)    |             | 1.4  |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 19207         | 1710.7      | QPSK | 5RB#0            | 23.57        | 19.8         | 25.7 | Pass                    | 3.84          | 27.41        | 33           | Pass                    |
|               |             |      | 5RB#1            | 23.69        | 19.8         | 25.7 | Pass                    | 3.84          | 27.53        | 33           | Pass                    |
| 19575         | 1747.5      | QPSK | 5RB#0            | 23.81        | 19.8         | 25.7 | Pass                    | 3.84          | 27.65        | 33           | Pass                    |
|               |             |      | 5RB#1            | 23.75        | 19.8         | 25.7 | Pass                    | 3.84          | 27.59        | 33           | Pass                    |
| 19943         | 1784.3      | QPSK | 5RB#0            | 24.03        | 19.8         | 25.7 | Pass                    | 3.84          | 27.87        | 33           | Pass                    |
|               |             |      | 5RB#1            | 23.98        | 19.8         | 25.7 | Pass                    | 3.84          | 27.82        | 33           | Pass                    |

**Note:** 天線增益 (dBd) = 5.99 - 2.15 = 3.84

| 工作頻寬 (MHz)    |             | 1.4  |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 19207         | 1710.7      | QPSK | 6RB#0            | 23.1         | 19.8         | 25.7 | Pass                    | 3.84          | 26.94        | 33           | Pass                    |
| 19575         | 1747.5      | QPSK | 6RB#0            | 23.22        | 19.8         | 25.7 | Pass                    | 3.84          | 27.06        | 33           | Pass                    |
| 19943         | 1784.3      | QPSK | 6RB#0            | 23.18        | 19.8         | 25.7 | Pass                    | 3.84          | 27.02        | 33           | Pass                    |

**Note:** 天線增益 (dBd) = 5.99 - 2.15 = 3.84

### LTE Band 3

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 19225         | 1712.5      | QPSK | 1RB#0            | 23.54        | 19.8         | 25.7 | Pass                    | 3.84          | 27.38        | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.79        | 19.8         | 25.7 | Pass                    | 3.84          | 27.63        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.72        | 19.8         | 25.7 | Pass                    | 3.84          | 27.56        | 33           | Pass                    |
| 19575         | 1747.5      | QPSK | 1RB#0            | 23.86        | 19.8         | 25.7 | Pass                    | 3.84          | 27.7         | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.91        | 19.8         | 25.7 | Pass                    | 3.84          | 27.75        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.83        | 19.8         | 25.7 | Pass                    | 3.84          | 27.67        | 33           | Pass                    |
| 19925         | 1782.5      | QPSK | 1RB#0            | 23.73        | 19.8         | 25.7 | Pass                    | 3.84          | 27.57        | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.67        | 19.8         | 25.7 | Pass                    | 3.84          | 27.51        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.8         | 19.8         | 25.7 | Pass                    | 3.84          | 27.64        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 5.99 - 2.15= 3.84

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 19225         | 1712.5      | QPSK | 8RB#0            | 23.56        | 19.8         | 25.7 | Pass                    | 3.84          | 27.4         | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.83        | 19.8         | 25.7 | Pass                    | 3.84          | 27.67        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.66        | 19.8         | 25.7 | Pass                    | 3.84          | 27.5         | 33           | Pass                    |
| 19575         | 1747.5      | QPSK | 8RB#0            | 23.76        | 19.8         | 25.7 | Pass                    | 3.84          | 27.6         | 33           | Pass                    |
|               |             |      | 8RB#8            | 24.08        | 19.8         | 25.7 | Pass                    | 3.84          | 27.92        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.78        | 19.8         | 25.7 | Pass                    | 3.84          | 27.62        | 33           | Pass                    |
| 19925         | 1782.5      | QPSK | 8RB#0            | 23.73        | 19.8         | 25.7 | Pass                    | 3.84          | 27.57        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.74        | 19.8         | 25.7 | Pass                    | 3.84          | 27.58        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.87        | 19.8         | 25.7 | Pass                    | 3.84          | 27.71        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 5.99 - 2.15= 3.84

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 19225         | 1712.5      | QPSK | 25RB#0           | 23.17        | 19.8         | 25.7 | Pass                    | 3.84          | 27.01        | 33           | Pass                    |
| 19575         | 1747.5      | QPSK | 25RB#0           | 23.27        | 19.8         | 25.7 | Pass                    | 3.84          | 27.11        | 33           | Pass                    |
| 19925         | 1782.5      | QPSK | 25RB#0           | 23.3         | 19.8         | 25.7 | Pass                    | 3.84          | 27.14        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 5.99 - 2.15= 3.84

### LTE Band 3

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 19300         | 1720        | QPSK | 1RB#0            | 23.54        | 19.8         | 25.7 | Pass                    | 3.84          | 27.38        | 33           | Pass                    |
|               |             |      | 1RB#50           | 23.83        | 19.8         | 25.7 | Pass                    | 3.84          | 27.67        | 33           | Pass                    |
|               |             |      | 1RB#99           | 23.66        | 19.8         | 25.7 | Pass                    | 3.84          | 27.5         | 33           | Pass                    |
| 19575         | 1747.5      | QPSK | 1RB#0            | 23.81        | 19.8         | 25.7 | Pass                    | 3.84          | 27.65        | 33           | Pass                    |
|               |             |      | 1RB#50           | 23.9         | 19.8         | 25.7 | Pass                    | 3.84          | 27.74        | 33           | Pass                    |
|               |             |      | 1RB#99           | 23.89        | 19.8         | 25.7 | Pass                    | 3.84          | 27.73        | 33           | Pass                    |
| 19850         | 1775        | QPSK | 1RB#0            | 23.91        | 19.8         | 25.7 | Pass                    | 3.84          | 27.75        | 33           | Pass                    |
|               |             |      | 1RB#50           | 23.88        | 19.8         | 25.7 | Pass                    | 3.84          | 27.72        | 33           | Pass                    |
|               |             |      | 1RB#99           | 23.7         | 19.8         | 25.7 | Pass                    | 3.84          | 27.54        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 5.99 - 2.15= 3.84

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 19300         | 1720        | QPSK | 18RB#0           | 23.54        | 19.8         | 25.7 | Pass                    | 3.84          | 27.38        | 33           | Pass                    |
|               |             |      | 18RB#42          | 23.64        | 19.8         | 25.7 | Pass                    | 3.84          | 27.48        | 33           | Pass                    |
|               |             |      | 18RB#82          | 23.77        | 19.8         | 25.7 | Pass                    | 3.84          | 27.61        | 33           | Pass                    |
| 19575         | 1747.5      | QPSK | 18RB#0           | 23.94        | 19.8         | 25.7 | Pass                    | 3.84          | 27.78        | 33           | Pass                    |
|               |             |      | 18RB#42          | 23.96        | 19.8         | 25.7 | Pass                    | 3.84          | 27.8         | 33           | Pass                    |
|               |             |      | 18RB#82          | 23.85        | 19.8         | 25.7 | Pass                    | 3.84          | 27.69        | 33           | Pass                    |
| 19850         | 1775        | QPSK | 18RB#0           | 23.72        | 19.8         | 25.7 | Pass                    | 3.84          | 27.56        | 33           | Pass                    |
|               |             |      | 18RB#42          | 23.76        | 19.8         | 25.7 | Pass                    | 3.84          | 27.6         | 33           | Pass                    |
|               |             |      | 18RB#82          | 23.65        | 19.8         | 25.7 | Pass                    | 3.84          | 27.49        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 5.99 - 2.15= 3.84

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 19300         | 1720        | QPSK | 100RB#0          | 23.31        | 19.8         | 25.7 | Pass                    | 3.84          | 27.15        | 33           | Pass                    |
| 19575         | 1747.5      | QPSK | 100RB#0          | 23.39        | 19.8         | 25.7 | Pass                    | 3.84          | 27.23        | 33           | Pass                    |
| 19850         | 1775        | QPSK | 100RB#0          | 23.26        | 19.8         | 25.7 | Pass                    | 3.84          | 27.1         | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 5.99 - 2.15= 3.84

## LTE Band 7

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 20775         | 2502.5      | QPSK | 1RB#0            | 24.37        | 19.8         | 25.7 | Pass                    | 3.05          | 27.42        | 33           | Pass                    |
|               |             |      | 1RB#12           | 24.3         | 19.8         | 25.7 | Pass                    | 3.05          | 27.35        | 33           | Pass                    |
|               |             |      | 1RB#24           | 24.17        | 19.8         | 25.7 | Pass                    | 3.05          | 27.22        | 33           | Pass                    |
| 21100         | 2535        | QPSK | 1RB#0            | 24.69        | 19.8         | 25.7 | Pass                    | 3.05          | 27.74        | 33           | Pass                    |
|               |             |      | 1RB#12           | 24.59        | 19.8         | 25.7 | Pass                    | 3.05          | 27.64        | 33           | Pass                    |
|               |             |      | 1RB#24           | 24.52        | 19.8         | 25.7 | Pass                    | 3.05          | 27.57        | 33           | Pass                    |
| 21425         | 2567.5      | QPSK | 1RB#0            | 24.21        | 19.8         | 25.7 | Pass                    | 3.05          | 27.26        | 33           | Pass                    |
|               |             |      | 1RB#12           | 24.29        | 19.8         | 25.7 | Pass                    | 3.05          | 27.34        | 33           | Pass                    |
|               |             |      | 1RB#24           | 24.16        | 19.8         | 25.7 | Pass                    | 3.05          | 27.21        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.2- 2.15=3.05

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 20775         | 2502.5      | QPSK | 8RB#0            | 24.12        | 19.8         | 25.7 | Pass                    | 3.05          | 27.17        | 33           | Pass                    |
|               |             |      | 8RB#8            | 24.26        | 19.8         | 25.7 | Pass                    | 3.05          | 27.31        | 33           | Pass                    |
|               |             |      | 8RB#17           | 24.33        | 19.8         | 25.7 | Pass                    | 3.05          | 27.38        | 33           | Pass                    |
| 21100         | 2535        | QPSK | 8RB#0            | 24.5         | 19.8         | 25.7 | Pass                    | 3.05          | 27.55        | 33           | Pass                    |
|               |             |      | 8RB#8            | 24.52        | 19.8         | 25.7 | Pass                    | 3.05          | 27.57        | 33           | Pass                    |
|               |             |      | 8RB#17           | 24.55        | 19.8         | 25.7 | Pass                    | 3.05          | 27.6         | 33           | Pass                    |
| 21425         | 2567.5      | QPSK | 8RB#0            | 24.33        | 19.8         | 25.7 | Pass                    | 3.05          | 27.38        | 33           | Pass                    |
|               |             |      | 8RB#8            | 24.38        | 19.8         | 25.7 | Pass                    | 3.05          | 27.43        | 33           | Pass                    |
|               |             |      | 8RB#17           | 24.23        | 19.8         | 25.7 | Pass                    | 3.05          | 27.28        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.2- 2.15=3.05

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 20775         | 2502.5      | QPSK | 25RB#0           | 23.35        | 19.8         | 25.7 | Pass                    | 3.05          | 26.4         | 33           | Pass                    |
| 21100         | 2535        | QPSK | 25RB#0           | 23.64        | 19.8         | 25.7 | Pass                    | 3.05          | 26.69        | 33           | Pass                    |
| 21425         | 2567.5      | QPSK | 25RB#0           | 23.33        | 19.8         | 25.7 | Pass                    | 3.05          | 26.38        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.2- 2.15=3.05

## LTE Band 7

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 20850         | 2510        | QPSK | 1RB#0            | 24.32        | 19.8         | 25.7 | Pass                    | 3.05          | 27.37        | 33           | Pass                    |
|               |             |      | 1RB#50           | 24.23        | 19.8         | 25.7 | Pass                    | 3.05          | 27.28        | 33           | Pass                    |
|               |             |      | 1RB#99           | 24.31        | 19.8         | 25.7 | Pass                    | 3.05          | 27.36        | 33           | Pass                    |
| 21100         | 2535        | QPSK | 1RB#0            | 24.61        | 19.8         | 25.7 | Pass                    | 3.05          | 27.66        | 33           | Pass                    |
|               |             |      | 1RB#50           | 24.43        | 19.8         | 25.7 | Pass                    | 3.05          | 27.48        | 33           | Pass                    |
|               |             |      | 1RB#99           | 24.47        | 19.8         | 25.7 | Pass                    | 3.05          | 27.52        | 33           | Pass                    |
| 21350         | 2560        | QPSK | 1RB#0            | 24.37        | 19.8         | 25.7 | Pass                    | 3.05          | 27.42        | 33           | Pass                    |
|               |             |      | 1RB#50           | 24.34        | 19.8         | 25.7 | Pass                    | 3.05          | 27.39        | 33           | Pass                    |
|               |             |      | 1RB#99           | 24.24        | 19.8         | 25.7 | Pass                    | 3.05          | 27.29        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.2- 2.15=3.05

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 20850         | 2510        | QPSK | 18RB#0           | 24.38        | 19.8         | 25.7 | Pass                    | 3.05          | 27.43        | 33           | Pass                    |
|               |             |      | 18RB#42          | 24.37        | 19.8         | 25.7 | Pass                    | 3.05          | 27.42        | 33           | Pass                    |
|               |             |      | 18RB#82          | 24.28        | 19.8         | 25.7 | Pass                    | 3.05          | 27.33        | 33           | Pass                    |
| 21100         | 2535        | QPSK | 18RB#0           | 24.34        | 19.8         | 25.7 | Pass                    | 3.05          | 27.39        | 33           | Pass                    |
|               |             |      | 18RB#42          | 24.56        | 19.8         | 25.7 | Pass                    | 3.05          | 27.61        | 33           | Pass                    |
|               |             |      | 18RB#82          | 24.34        | 19.8         | 25.7 | Pass                    | 3.05          | 27.39        | 33           | Pass                    |
| 21350         | 2560        | QPSK | 18RB#0           | 24.49        | 19.8         | 25.7 | Pass                    | 3.05          | 27.54        | 33           | Pass                    |
|               |             |      | 18RB#42          | 24.2         | 19.8         | 25.7 | Pass                    | 3.05          | 27.25        | 33           | Pass                    |
|               |             |      | 18RB#82          | 24.26        | 19.8         | 25.7 | Pass                    | 3.05          | 27.31        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.2- 2.15=3.05

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 20850         | 2510        | QPSK | 100RB#0          | 23.46        | 19.8         | 25.7 | Pass                    | 3.05          | 26.51        | 33           | Pass                    |
| 21100         | 2535        | QPSK | 100RB#0          | 23.7         | 19.8         | 25.7 | Pass                    | 3.05          | 26.75        | 33           | Pass                    |
| 21350         | 2560        | QPSK | 100RB#0          | 23.43        | 19.8         | 25.7 | Pass                    | 3.05          | 26.48        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.2- 2.15=3.05

## LTE Band 8

| 工作頻寬 (MHz)    |             | 1.4  |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 21507         | 885.7       | QPSK | 1RB#0            | 23.89        | 19.8         | 25.7 | Pass                    | 0.43          | 24.32        | 33           | Pass                    |
|               |             |      | 1RB#2            | 23.88        | 19.8         | 25.7 | Pass                    | 0.43          | 24.31        | 33           | Pass                    |
|               |             |      | 1RB#5            | 23.71        | 19.8         | 25.7 | Pass                    | 0.43          | 24.14        | 33           | Pass                    |
| 21650         | 900         | QPSK | 1RB#0            | 23.97        | 19.8         | 25.7 | Pass                    | 0.43          | 24.4         | 33           | Pass                    |
|               |             |      | 1RB#2            | 23.76        | 19.8         | 25.7 | Pass                    | 0.43          | 24.19        | 33           | Pass                    |
|               |             |      | 1RB#5            | 23.61        | 19.8         | 25.7 | Pass                    | 0.43          | 24.04        | 33           | Pass                    |
| 21793         | 914.3       | QPSK | 1RB#0            | 23.99        | 19.8         | 25.7 | Pass                    | 0.43          | 24.42        | 33           | Pass                    |
|               |             |      | 1RB#2            | 23.59        | 19.8         | 25.7 | Pass                    | 0.43          | 24.02        | 33           | Pass                    |
|               |             |      | 1RB#5            | 23.57        | 19.8         | 25.7 | Pass                    | 0.43          | 24           | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 2.58- 2.15= 0.43

| 工作頻寬 (MHz)    |             | 1.4  |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 21507         | 885.7       | QPSK | 5RB#0            | 23.81        | 19.8         | 25.7 | Pass                    | 0.43          | 24.24        | 33           | Pass                    |
|               |             |      | 5RB#1            | 23.87        | 19.8         | 25.7 | Pass                    | 0.43          | 24.3         | 33           | Pass                    |
| 21650         | 900         | QPSK | 5RB#0            | 23.67        | 19.8         | 25.7 | Pass                    | 0.43          | 24.1         | 33           | Pass                    |
|               |             |      | 5RB#1            | 23.66        | 19.8         | 25.7 | Pass                    | 0.43          | 24.09        | 33           | Pass                    |
| 21793         | 914.3       | QPSK | 5RB#0            | 23.68        | 19.8         | 25.7 | Pass                    | 0.43          | 24.11        | 33           | Pass                    |
|               |             |      | 5RB#1            | 23.78        | 19.8         | 25.7 | Pass                    | 0.43          | 24.21        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 2.58- 2.15= 0.43

| 工作頻寬 (MHz)    |             | 1.4  |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 21507         | 885.7       | QPSK | 6RB#0            | 23.77        | 19.8         | 25.7 | Pass                    | 0.43          | 24.2         | 33           | Pass                    |
| 21650         | 900         | QPSK | 6RB#0            | 23.74        | 19.8         | 25.7 | Pass                    | 0.43          | 24.17        | 33           | Pass                    |
| 21793         | 914.3       | QPSK | 6RB#0            | 23.53        | 19.8         | 25.7 | Pass                    | 0.43          | 23.96        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 2.58- 2.15= 0.43

## LTE Band 8

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 21525         | 887.5       | QPSK | 1RB#0            | 24.02        | 19.8         | 25.7 | Pass                    | 0.43          | 24.45        | 33           | Pass                    |
|               |             |      | 1RB#12           | 24.03        | 19.8         | 25.7 | Pass                    | 0.43          | 24.46        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.94        | 19.8         | 25.7 | Pass                    | 0.43          | 24.37        | 33           | Pass                    |
| 21650         | 900         | QPSK | 1RB#0            | 23.97        | 19.8         | 25.7 | Pass                    | 0.43          | 24.4         | 33           | Pass                    |
|               |             |      | 1RB#12           | 24.01        | 19.8         | 25.7 | Pass                    | 0.43          | 24.44        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.91        | 19.8         | 25.7 | Pass                    | 0.43          | 24.34        | 33           | Pass                    |
| 21775         | 912.5       | QPSK | 1RB#0            | 23.93        | 19.8         | 25.7 | Pass                    | 0.43          | 24.36        | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.93        | 19.8         | 25.7 | Pass                    | 0.43          | 24.36        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.85        | 19.8         | 25.7 | Pass                    | 0.43          | 24.28        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 2.58- 2.15= 0.43

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 21525         | 887.5       | QPSK | 8RB#0            | 23.89        | 19.8         | 25.7 | Pass                    | 0.43          | 24.32        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.89        | 19.8         | 25.7 | Pass                    | 0.43          | 24.32        | 33           | Pass                    |
|               |             |      | 8RB#17           | 24.12        | 19.8         | 25.7 | Pass                    | 0.43          | 24.55        | 33           | Pass                    |
| 21650         | 900         | QPSK | 8RB#0            | 23.77        | 19.8         | 25.7 | Pass                    | 0.43          | 24.2         | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.85        | 19.8         | 25.7 | Pass                    | 0.43          | 24.28        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.89        | 19.8         | 25.7 | Pass                    | 0.43          | 24.32        | 33           | Pass                    |
| 21775         | 912.5       | QPSK | 8RB#0            | 23.69        | 19.8         | 25.7 | Pass                    | 0.43          | 24.12        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.84        | 19.8         | 25.7 | Pass                    | 0.43          | 24.27        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.83        | 19.8         | 25.7 | Pass                    | 0.43          | 24.26        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 2.58- 2.15= 0.43

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 21525         | 887.5       | QPSK | 25RB#0           | 23.72        | 19.8         | 25.7 | Pass                    | 0.43          | 24.15        | 33           | Pass                    |
| 21650         | 900         | QPSK | 25RB#0           | 23.64        | 19.8         | 25.7 | Pass                    | 0.43          | 24.07        | 33           | Pass                    |
| 21775         | 912.5       | QPSK | 25RB#0           | 23.6         | 19.8         | 25.7 | Pass                    | 0.43          | 24.03        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 2.58- 2.15= 0.43

## LTE Band 8

| 工作頻寬 (MHz)    |             | 10   |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 21550         | 890         | QPSK | 1RB#0            | 23.97        | 19.8         | 25.7 | Pass                    | 0.43          | 24.4         | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.76        | 19.8         | 25.7 | Pass                    | 0.43          | 24.19        | 33           | Pass                    |
|               |             |      | 1RB#49           | 23.74        | 19.8         | 25.7 | Pass                    | 0.43          | 24.17        | 33           | Pass                    |
| 21650         | 900         | QPSK | 1RB#0            | 23.86        | 19.8         | 25.7 | Pass                    | 0.43          | 24.29        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.7         | 19.8         | 25.7 | Pass                    | 0.43          | 24.13        | 33           | Pass                    |
|               |             |      | 1RB#49           | 23.85        | 19.8         | 25.7 | Pass                    | 0.43          | 24.28        | 33           | Pass                    |
| 21750         | 910         | QPSK | 1RB#0            | 24.06        | 19.8         | 25.7 | Pass                    | 0.43          | 24.49        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.85        | 19.8         | 25.7 | Pass                    | 0.43          | 24.28        | 33           | Pass                    |
|               |             |      | 1RB#49           | 23.92        | 19.8         | 25.7 | Pass                    | 0.43          | 24.35        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 2.58- 2.15= 0.43

| 工作頻寬 (MHz)    |             | 10   |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 21550         | 890         | QPSK | 12RB#0           | 23.82        | 19.8         | 25.7 | Pass                    | 0.43          | 24.25        | 33           | Pass                    |
|               |             |      | 12RB#19          | 23.75        | 19.8         | 25.7 | Pass                    | 0.43          | 24.18        | 33           | Pass                    |
|               |             |      | 12RB#38          | 23.8         | 19.8         | 25.7 | Pass                    | 0.43          | 24.23        | 33           | Pass                    |
| 21650         | 900         | QPSK | 12RB#0           | 23.89        | 19.8         | 25.7 | Pass                    | 0.43          | 24.32        | 33           | Pass                    |
|               |             |      | 12RB#19          | 23.74        | 19.8         | 25.7 | Pass                    | 0.43          | 24.17        | 33           | Pass                    |
|               |             |      | 12RB#38          | 23.77        | 19.8         | 25.7 | Pass                    | 0.43          | 24.2         | 33           | Pass                    |
| 21750         | 910         | QPSK | 12RB#0           | 23.69        | 19.8         | 25.7 | Pass                    | 0.43          | 24.12        | 33           | Pass                    |
|               |             |      | 12RB#19          | 23.78        | 19.8         | 25.7 | Pass                    | 0.43          | 24.21        | 33           | Pass                    |
|               |             |      | 12RB#38          | 23.93        | 19.8         | 25.7 | Pass                    | 0.43          | 24.36        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 2.58- 2.15= 0.43

| 工作頻寬 (MHz)    |             | 10   |                  | 傳導輸出功率       |              |      | 等效輻射功率(ERP)             |               |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 21550         | 890         | QPSK | 50RB#0           | 23.5         | 19.8         | 25.7 | Pass                    | 0.43          | 23.93        | 33           | Pass                    |
| 21650         | 900         | QPSK | 50RB#0           | 23.32        | 19.8         | 25.7 | Pass                    | 0.43          | 23.75        | 33           | Pass                    |
| 21750         | 910         | QPSK | 50RB#0           | 23.29        | 19.8         | 25.7 | Pass                    | 0.43          | 23.72        | 33           | Pass                    |

**Note:** 天線增益 (dBd)= 2.58- 2.15= 0.43

## LTE Band 28

| 工作頻寬 (MHz)    |             | 3    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 27225         | 704.5       | QPSK | 1RB#0            | 24.09        | 19.8         | 25.7 | Pass                    | 2.02          | 26.11        | 33           | Pass                    |
|               |             |      | 1RB#7            | 23.91        | 19.8         | 25.7 | Pass                    | 2.02          | 25.93        | 33           | Pass                    |
|               |             |      | 1RB#14           | 23.94        | 19.8         | 25.7 | Pass                    | 2.02          | 25.96        | 33           | Pass                    |
| 27430         | 725         | QPSK | 1RB#0            | 23.85        | 19.8         | 25.7 | Pass                    | 2.02          | 25.87        | 33           | Pass                    |
|               |             |      | 1RB#7            | 23.95        | 19.8         | 25.7 | Pass                    | 2.02          | 25.97        | 33           | Pass                    |
|               |             |      | 1RB#14           | 23.75        | 19.8         | 25.7 | Pass                    | 2.02          | 25.77        | 33           | Pass                    |
| 27645         | 746.5       | QPSK | 1RB#0            | 23.92        | 19.8         | 25.7 | Pass                    | 2.02          | 25.94        | 33           | Pass                    |
|               |             |      | 1RB#7            | 23.63        | 19.8         | 25.7 | Pass                    | 2.02          | 25.65        | 33           | Pass                    |
|               |             |      | 1RB#14           | 23.67        | 19.8         | 25.7 | Pass                    | 2.02          | 25.69        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.17 - 2.15 = 2.02

| 工作頻寬 (MHz)    |             | 3    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 27225         | 704.5       | QPSK | 4RB#0            | 23.67        | 19.8         | 25.7 | Pass                    | 2.02          | 25.69        | 33           | Pass                    |
|               |             |      | 4RB#6            | 23.65        | 19.8         | 25.7 | Pass                    | 2.02          | 25.67        | 33           | Pass                    |
|               |             |      | 4RB#11           | 23.68        | 19.8         | 25.7 | Pass                    | 2.02          | 25.7         | 33           | Pass                    |
| 27430         | 725         | QPSK | 4RB#0            | 23.64        | 19.8         | 25.7 | Pass                    | 2.02          | 25.66        | 33           | Pass                    |
|               |             |      | 4RB#6            | 23.67        | 19.8         | 25.7 | Pass                    | 2.02          | 25.69        | 33           | Pass                    |
|               |             |      | 4RB#11           | 23.66        | 19.8         | 25.7 | Pass                    | 2.02          | 25.68        | 33           | Pass                    |
| 27645         | 746.5       | QPSK | 4RB#0            | 23.57        | 19.8         | 25.7 | Pass                    | 2.02          | 25.59        | 33           | Pass                    |
|               |             |      | 4RB#6            | 23.59        | 19.8         | 25.7 | Pass                    | 2.02          | 25.61        | 33           | Pass                    |
|               |             |      | 4RB#11           | 23.61        | 19.8         | 25.7 | Pass                    | 2.02          | 25.63        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.17 - 2.15 = 2.02

| 工作頻寬 (MHz)    |             | 3    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 27225         | 704.5       | QPSK | 15RB#0           | 23.76        | 19.8         | 25.7 | Pass                    | 2.02          | 25.78        | 33           | Pass                    |
| 27430         | 725         | QPSK | 15RB#0           | 23.7         | 19.8         | 25.7 | Pass                    | 2.02          | 25.72        | 33           | Pass                    |
| 27645         | 746.5       | QPSK | 15RB#0           | 23.51        | 19.8         | 25.7 | Pass                    | 2.02          | 25.53        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.17 - 2.15 = 2.02

## LTE Band 28

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 27235         | 705.5       | QPSK | 1RB#0            | 24.04        | 19.8         | 25.7 | Pass                    | 2.02          | 26.06        | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.92        | 19.8         | 25.7 | Pass                    | 2.02          | 25.94        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.91        | 19.8         | 25.7 | Pass                    | 2.02          | 25.93        | 33           | Pass                    |
| 27430         | 725         | QPSK | 1RB#0            | 23.93        | 19.8         | 25.7 | Pass                    | 2.02          | 25.95        | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.93        | 19.8         | 25.7 | Pass                    | 2.02          | 25.95        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.78        | 19.8         | 25.7 | Pass                    | 2.02          | 25.8         | 33           | Pass                    |
| 27635         | 745.5       | QPSK | 1RB#0            | 23.89        | 19.8         | 25.7 | Pass                    | 2.02          | 25.91        | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.69        | 19.8         | 25.7 | Pass                    | 2.02          | 25.71        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.97        | 19.8         | 25.7 | Pass                    | 2.02          | 25.99        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.17 - 2.15 = 2.02

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 27235         | 705.5       | QPSK | 8RB#0            | 23.96        | 19.8         | 25.7 | Pass                    | 2.02          | 25.98        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.89        | 19.8         | 25.7 | Pass                    | 2.02          | 25.91        | 33           | Pass                    |
|               |             |      | 8RB#17           | 24.04        | 19.8         | 25.7 | Pass                    | 2.02          | 26.06        | 33           | Pass                    |
| 27430         | 725         | QPSK | 8RB#0            | 23.82        | 19.8         | 25.7 | Pass                    | 2.02          | 25.84        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.79        | 19.8         | 25.7 | Pass                    | 2.02          | 25.81        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.8         | 19.8         | 25.7 | Pass                    | 2.02          | 25.82        | 33           | Pass                    |
| 27635         | 745.5       | QPSK | 8RB#0            | 23.66        | 19.8         | 25.7 | Pass                    | 2.02          | 25.68        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.89        | 19.8         | 25.7 | Pass                    | 2.02          | 25.91        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.89        | 19.8         | 25.7 | Pass                    | 2.02          | 25.91        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.17 - 2.15 = 2.02

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 27235         | 705.5       | QPSK | 25RB#0           | 23.71        | 19.8         | 25.7 | Pass                    | 2.02          | 25.73        | 33           | Pass                    |
| 27430         | 725         | QPSK | 25RB#0           | 23.67        | 19.8         | 25.7 | Pass                    | 2.02          | 25.69        | 33           | Pass                    |
| 27635         | 745.5       | QPSK | 25RB#0           | 23.63        | 19.8         | 25.7 | Pass                    | 2.02          | 25.65        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.17 - 2.15 = 2.02

## LTE Band 28

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 27310         | 713         | QPSK | 1RB#0            | 24.14        | 19.8         | 25.7 | Pass                    | 2.02          | 26.16        | 33           | Pass                    |
|               |             |      | 1RB#50           | 23.96        | 19.8         | 25.7 | Pass                    | 2.02          | 25.98        | 33           | Pass                    |
|               |             |      | 1RB#99           | 24.01        | 19.8         | 25.7 | Pass                    | 2.02          | 26.03        | 33           | Pass                    |
| 27430         | 725         | QPSK | 1RB#0            | 23.93        | 19.8         | 25.7 | Pass                    | 2.02          | 25.95        | 33           | Pass                    |
|               |             |      | 1RB#50           | 24.11        | 19.8         | 25.7 | Pass                    | 2.02          | 26.13        | 33           | Pass                    |
|               |             |      | 1RB#99           | 23.82        | 19.8         | 25.7 | Pass                    | 2.02          | 25.84        | 33           | Pass                    |
| 27560         | 738         | QPSK | 1RB#0            | 24.05        | 19.8         | 25.7 | Pass                    | 2.02          | 26.07        | 33           | Pass                    |
|               |             |      | 1RB#50           | 23.87        | 19.8         | 25.7 | Pass                    | 2.02          | 25.89        | 33           | Pass                    |
|               |             |      | 1RB#99           | 23.96        | 19.8         | 25.7 | Pass                    | 2.02          | 25.98        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.17 - 2.15 = 2.02

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 27310         | 713         | QPSK | 18RB#0           | 23.92        | 19.8         | 25.7 | Pass                    | 2.02          | 25.94        | 33           | Pass                    |
|               |             |      | 18RB#42          | 23.91        | 19.8         | 25.7 | Pass                    | 2.02          | 25.93        | 33           | Pass                    |
|               |             |      | 18RB#82          | 23.94        | 19.8         | 25.7 | Pass                    | 2.02          | 25.96        | 33           | Pass                    |
| 27430         | 725         | QPSK | 18RB#0           | 23.87        | 19.8         | 25.7 | Pass                    | 2.02          | 25.89        | 33           | Pass                    |
|               |             |      | 18RB#42          | 23.94        | 19.8         | 25.7 | Pass                    | 2.02          | 25.96        | 33           | Pass                    |
|               |             |      | 18RB#82          | 23.95        | 19.8         | 25.7 | Pass                    | 2.02          | 25.97        | 33           | Pass                    |
| 27560         | 738         | QPSK | 18RB#0           | 23.89        | 19.8         | 25.7 | Pass                    | 2.02          | 25.91        | 33           | Pass                    |
|               |             |      | 18RB#42          | 23.85        | 19.8         | 25.7 | Pass                    | 2.02          | 25.87        | 33           | Pass                    |
|               |             |      | 18RB#82          | 23.9         | 19.8         | 25.7 | Pass                    | 2.02          | 25.92        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.17 - 2.15 = 2.02

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 27310         | 713         | QPSK | 100RB#0          | 23.68        | 19.8         | 25.7 | Pass                    | 2.02          | 25.7         | 33           | Pass                    |
| 27430         | 725         | QPSK | 100RB#0          | 23.79        | 19.8         | 25.7 | Pass                    | 2.02          | 25.81        | 33           | Pass                    |
| 27560         | 738         | QPSK | 100RB#0          | 23.73        | 19.8         | 25.7 | Pass                    | 2.02          | 25.75        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.17 - 2.15 = 2.02

## LTE Band 38

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 37775         | 2572.5      | QPSK | 1RB#0            | 24.54        | 20.3         | 25.7 | Pass                    | 2.67          | 27.21        | 33           | Pass                    |
|               |             |      | 1RB#12           | 24.38        | 20.3         | 25.7 | Pass                    | 2.67          | 27.05        | 33           | Pass                    |
|               |             |      | 1RB#24           | 24.39        | 20.3         | 25.7 | Pass                    | 2.67          | 27.06        | 33           | Pass                    |
| 38000         | 2595        | QPSK | 1RB#0            | 24.46        | 20.3         | 25.7 | Pass                    | 2.67          | 27.13        | 33           | Pass                    |
|               |             |      | 1RB#12           | 24.3         | 20.3         | 25.7 | Pass                    | 2.67          | 26.97        | 33           | Pass                    |
|               |             |      | 1RB#24           | 24.14        | 20.3         | 25.7 | Pass                    | 2.67          | 26.81        | 33           | Pass                    |
| 38225         | 2617.5      | QPSK | 1RB#0            | 24.65        | 20.3         | 25.7 | Pass                    | 2.67          | 27.32        | 33           | Pass                    |
|               |             |      | 1RB#12           | 24.64        | 20.3         | 25.7 | Pass                    | 2.67          | 27.31        | 33           | Pass                    |
|               |             |      | 1RB#24           | 24.5         | 20.3         | 25.7 | Pass                    | 2.67          | 27.17        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.82 - 2.15 = 2.67

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 37775         | 2572.5      | QPSK | 8RB#0            | 24.27        | 20.3         | 25.7 | Pass                    | 2.67          | 26.94        | 33           | Pass                    |
|               |             |      | 8RB#8            | 24.14        | 20.3         | 25.7 | Pass                    | 2.67          | 26.81        | 33           | Pass                    |
|               |             |      | 8RB#17           | 24.19        | 20.3         | 25.7 | Pass                    | 2.67          | 26.86        | 33           | Pass                    |
| 38000         | 2595        | QPSK | 8RB#0            | 24.09        | 20.3         | 25.7 | Pass                    | 2.67          | 26.76        | 33           | Pass                    |
|               |             |      | 8RB#8            | 24.27        | 20.3         | 25.7 | Pass                    | 2.67          | 26.94        | 33           | Pass                    |
|               |             |      | 8RB#17           | 24.09        | 20.3         | 25.7 | Pass                    | 2.67          | 26.76        | 33           | Pass                    |
| 38225         | 2617.5      | QPSK | 8RB#0            | 24.46        | 20.3         | 25.7 | Pass                    | 2.67          | 27.13        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.79        | 20.3         | 25.7 | Pass                    | 2.67          | 26.46        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.74        | 20.3         | 25.7 | Pass                    | 2.67          | 26.41        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.82 - 2.15 = 2.67

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 37775         | 2572.5      | QPSK | 25RB#0           | 23.7         | 20.3         | 25.7 | Pass                    | 2.67          | 26.37        | 33           | Pass                    |
| 38000         | 2595        | QPSK | 25RB#0           | 23.58        | 20.3         | 25.7 | Pass                    | 2.67          | 26.25        | 33           | Pass                    |
| 38225         | 2617.5      | QPSK | 25RB#0           | 23.79        | 20.3         | 25.7 | Pass                    | 2.67          | 26.46        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.82 - 2.15 = 2.67

### LTE Band 38

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 37850         | 2580        | QPSK | 1RB#0            | 24.4         | 20.3         | 25.7 | Pass                    | 2.67          | 27.07        | 33           | Pass                    |
|               |             |      | 1RB#50           | 24.3         | 20.3         | 25.7 | Pass                    | 2.67          | 26.97        | 33           | Pass                    |
|               |             |      | 1RB#99           | 24.42        | 20.3         | 25.7 | Pass                    | 2.67          | 27.09        | 33           | Pass                    |
| 38000         | 2595        | QPSK | 1RB#0            | 24.52        | 20.3         | 25.7 | Pass                    | 2.67          | 27.19        | 33           | Pass                    |
|               |             |      | 1RB#50           | 24.33        | 20.3         | 25.7 | Pass                    | 2.67          | 27           | 33           | Pass                    |
|               |             |      | 1RB#99           | 24.2         | 20.3         | 25.7 | Pass                    | 2.67          | 26.87        | 33           | Pass                    |
| 38150         | 2610        | QPSK | 1RB#0            | 24.55        | 20.3         | 25.7 | Pass                    | 2.67          | 27.22        | 33           | Pass                    |
|               |             |      | 1RB#50           | 24.43        | 20.3         | 25.7 | Pass                    | 2.67          | 27.1         | 33           | Pass                    |
|               |             |      | 1RB#99           | 24.45        | 20.3         | 25.7 | Pass                    | 2.67          | 27.12        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.82 - 2.15 = 2.67

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 37850         | 2572.5      | QPSK | 18RB#0           | 24.14        | 20.3         | 25.7 | Pass                    | 2.67          | 26.81        | 33           | Pass                    |
|               |             |      | 18RB#42          | 24.21        | 20.3         | 25.7 | Pass                    | 2.67          | 26.88        | 33           | Pass                    |
|               |             |      | 18RB#82          | 24.24        | 20.3         | 25.7 | Pass                    | 2.67          | 26.91        | 33           | Pass                    |
| 38000         | 2595        | QPSK | 18RB#0           | 24.39        | 20.3         | 25.7 | Pass                    | 2.67          | 27.06        | 33           | Pass                    |
|               |             |      | 18RB#42          | 24.38        | 20.3         | 25.7 | Pass                    | 2.67          | 27.05        | 33           | Pass                    |
|               |             |      | 18RB#82          | 24.07        | 20.3         | 25.7 | Pass                    | 2.67          | 26.74        | 33           | Pass                    |
| 38150         | 2617.5      | QPSK | 18RB#0           | 24.13        | 20.3         | 25.7 | Pass                    | 2.67          | 26.8         | 33           | Pass                    |
|               |             |      | 18RB#42          | 24.19        | 20.3         | 25.7 | Pass                    | 2.67          | 26.86        | 33           | Pass                    |
|               |             |      | 18RB#82          | 24.22        | 20.3         | 25.7 | Pass                    | 2.67          | 26.89        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.82 - 2.15 = 2.67

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 37850         | 2580        | QPSK | 100RB#0          | 23.69        | 20.3         | 25.7 | Pass                    | 2.67          | 26.36        | 33           | Pass                    |
| 38000         | 2595        | QPSK | 100RB#0          | 23.61        | 20.3         | 25.7 | Pass                    | 2.67          | 26.28        | 33           | Pass                    |
| 38150         | 2610        | QPSK | 100RB#0          | 23.77        | 20.3         | 25.7 | Pass                    | 2.67          | 26.44        | 33           | Pass                    |

Note: 天線增益 (dBd)= 4.82 - 2.15 = 2.67

## LTE Band 41

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 39715         | 2502.5      | QPSK | 1RB#0            | 23.93        | 20.3         | 25.7 | Pass                    | 3.23          | 27.16        | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.89        | 20.3         | 25.7 | Pass                    | 3.23          | 27.12        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.88        | 20.3         | 25.7 | Pass                    | 3.23          | 27.11        | 33           | Pass                    |
| 40640         | 2595        | QPSK | 1RB#0            | 24.21        | 20.3         | 25.7 | Pass                    | 3.23          | 27.44        | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.99        | 20.3         | 25.7 | Pass                    | 3.23          | 27.22        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.96        | 20.3         | 25.7 | Pass                    | 3.23          | 27.19        | 33           | Pass                    |
| 41565         | 2687.5      | QPSK | 1RB#0            | 23.73        | 20.3         | 25.7 | Pass                    | 3.23          | 26.96        | 33           | Pass                    |
|               |             |      | 1RB#12           | 23.7         | 20.3         | 25.7 | Pass                    | 3.23          | 26.93        | 33           | Pass                    |
|               |             |      | 1RB#24           | 23.77        | 20.3         | 25.7 | Pass                    | 3.23          | 27           | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.38- 2.15= 3.23

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 39715         | 2502.5      | QPSK | 8RB#0            | 23.83        | 20.3         | 25.7 | Pass                    | 3.23          | 27.06        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.96        | 20.3         | 25.7 | Pass                    | 3.23          | 27.19        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.92        | 20.3         | 25.7 | Pass                    | 3.23          | 27.15        | 33           | Pass                    |
| 40640         | 2595        | QPSK | 8RB#0            | 23.93        | 20.3         | 25.7 | Pass                    | 3.23          | 27.16        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.83        | 20.3         | 25.7 | Pass                    | 3.23          | 27.06        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.88        | 20.3         | 25.7 | Pass                    | 3.23          | 27.11        | 33           | Pass                    |
| 41565         | 2687.5      | QPSK | 8RB#0            | 23.98        | 20.3         | 25.7 | Pass                    | 3.23          | 27.21        | 33           | Pass                    |
|               |             |      | 8RB#8            | 23.89        | 20.3         | 25.7 | Pass                    | 3.23          | 27.12        | 33           | Pass                    |
|               |             |      | 8RB#17           | 23.92        | 20.3         | 25.7 | Pass                    | 3.23          | 27.15        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.38- 2.15= 3.23

| 工作頻寬 (MHz)    |             | 5    |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 39715         | 2502.5      | QPSK | 25RB#0           | 23.03        | 20.3         | 25.7 | Pass                    | 3.23          | 26.26        | 33           | Pass                    |
| 39715         | 2502.5      | QPSK | 25RB#0           | 23.42        | 20.3         | 25.7 | Pass                    | 3.23          | 26.65        | 33           | Pass                    |
| 41565         | 2687.5      | QPSK | 25RB#0           | 23.09        | 20.3         | 25.7 | Pass                    | 3.23          | 26.32        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.38- 2.15= 3.23

## LTE Band 41

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 39790         | 2510        | QPSK | 1RB#0            | 24.11        | 20.3         | 25.7 | Pass                    | 3.23          | 27.34        | 33           | Pass                    |
|               |             |      | 1RB#50           | 23.77        | 20.3         | 25.7 | Pass                    | 3.23          | 27           | 33           | Pass                    |
|               |             |      | 1RB#99           | 23.93        | 20.3         | 25.7 | Pass                    | 3.23          | 27.16        | 33           | Pass                    |
| 40640         | 2595        | QPSK | 1RB#0            | 24.17        | 20.3         | 25.7 | Pass                    | 3.23          | 27.4         | 33           | Pass                    |
|               |             |      | 1RB#50           | 23.99        | 20.3         | 25.7 | Pass                    | 3.23          | 27.22        | 33           | Pass                    |
|               |             |      | 1RB#99           | 24.16        | 20.3         | 25.7 | Pass                    | 3.23          | 27.39        | 33           | Pass                    |
| 41490         | 2680        | QPSK | 1RB#0            | 24.1         | 20.3         | 25.7 | Pass                    | 3.23          | 27.33        | 33           | Pass                    |
|               |             |      | 1RB#50           | 23.81        | 20.3         | 25.7 | Pass                    | 3.23          | 27.04        | 33           | Pass                    |
|               |             |      | 1RB#99           | 23.52        | 20.3         | 25.7 | Pass                    | 3.23          | 26.75        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.38- 2.15= 3.23

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 39790         | 2510        | QPSK | 18RB#0           | 23.96        | 20.3         | 25.7 | Pass                    | 3.23          | 27.19        | 33           | Pass                    |
|               |             |      | 18RB#42          | 24.01        | 20.3         | 25.7 | Pass                    | 3.23          | 27.24        | 33           | Pass                    |
|               |             |      | 18RB#82          | 24           | 20.3         | 25.7 | Pass                    | 3.23          | 27.23        | 33           | Pass                    |
| 40640         | 2595        | QPSK | 18RB#0           | 24.02        | 20.3         | 25.7 | Pass                    | 3.23          | 27.25        | 33           | Pass                    |
|               |             |      | 18RB#42          | 23.98        | 20.3         | 25.7 | Pass                    | 3.23          | 27.21        | 33           | Pass                    |
|               |             |      | 18RB#82          | 23.96        | 20.3         | 25.7 | Pass                    | 3.23          | 27.19        | 33           | Pass                    |
| 41490         | 2680        | QPSK | 18RB#0           | 24.02        | 20.3         | 25.7 | Pass                    | 3.23          | 27.25        | 33           | Pass                    |
|               |             |      | 18RB#42          | 24.01        | 20.3         | 25.7 | Pass                    | 3.23          | 27.24        | 33           | Pass                    |
|               |             |      | 18RB#82          | 23.81        | 20.3         | 25.7 | Pass                    | 3.23          | 27.04        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.38- 2.15= 3.23

| 工作頻寬 (MHz)    |             | 20   |                  | 傳導輸出功率       |              |      |                         | 等效輻射功率(ERP)   |              |              |                         |
|---------------|-------------|------|------------------|--------------|--------------|------|-------------------------|---------------|--------------|--------------|-------------------------|
| 頻道<br>(Chan.) | 頻率<br>(MHz) | 調變   | RB/<br>RB Offset | 測試值<br>(dBm) | 限制值<br>(dBm) |      | 測試結果<br>(Pass<br>/Fail) | 天線增益<br>(dBd) | ERP<br>(dBm) | 限制值<br>(dBm) | 測試結果<br>(Pass<br>/Fail) |
|               |             |      |                  |              | 下限           | 上限   |                         |               |              |              |                         |
| 39790         | 2510        | QPSK | 100RB#0          | 23.3         | 20.3         | 25.7 | Pass                    | 3.23          | 26.53        | 33           | Pass                    |
| 40640         | 2595        | QPSK | 100RB#0          | 23.42        | 20.3         | 25.7 | Pass                    | 3.23          | 26.65        | 33           | Pass                    |
| 41490         | 2680        | QPSK | 100RB#0          | 23.28        | 20.3         | 25.7 | Pass                    | 3.23          | 26.51        | 33           | Pass                    |

Note: 天線增益 (dBd)= 5.38- 2.15= 3.23

#### 4. 檢測實驗室基本資料

立德國際商品試驗有限公司桃園分公司提供產業界最佳的檢測以及諮詢服務。  
本公司為 ISO/IEC 17025 認可實驗室。

如您有任何問題或建議，請與下列實驗室聯絡：

林口 EMC / RF 實驗室：  
Tel: 886-2-26052180  
Fax: 886-2-26051924

新竹 EMC / RF 及通訊實驗室：  
Tel: 886-3-6668565  
Fax: 886-3-6668323

華亞 EMC / RF / Safety 實驗室：  
Tel: 886-3-3183232  
Fax: 886-3-3270892

Email: [service.adt@tw.bureauveritas.com](mailto:service.adt@tw.bureauveritas.com)  
Web Site: [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

您也可以我們的網站內找到各實驗室的地圖。

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