

## 5 電源線傳導干擾之量測

### 5.1 適用標準

請見本報告3.1節第1項的規定。

### 5.2 量測方法

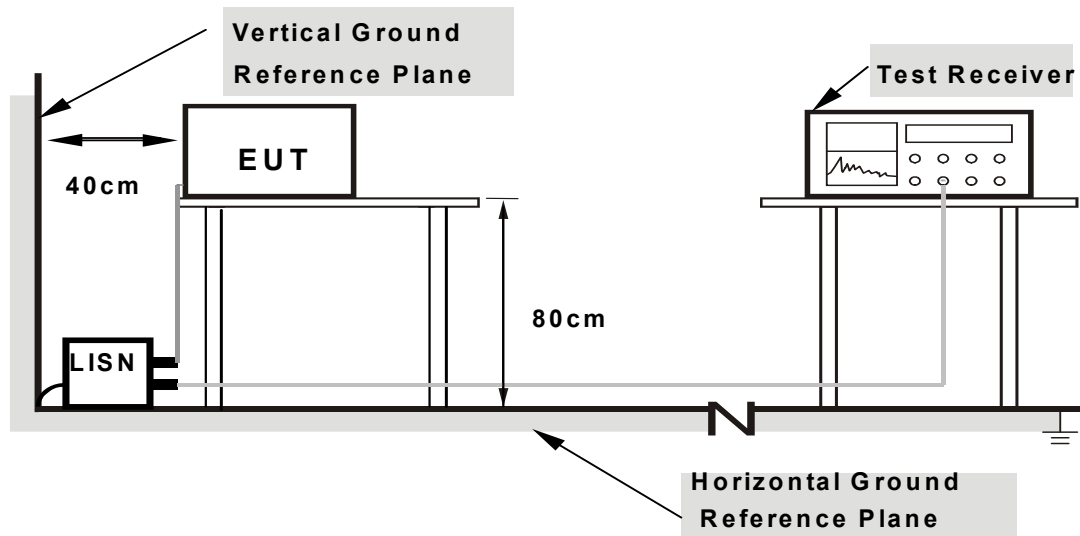
將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由0.15MHz至30MHz之間之電源線傳導放射強度。

### 5.3 量測儀器

| Description & Manufacturer              | Model No.                | Serial No.     | Cal. Date     | Cal. Due      |
|-----------------------------------------|--------------------------|----------------|---------------|---------------|
| Test Receiver<br>ROHDE & SCHWARZ        | ESCS 30                  | 100288         | Jan. 03, 2019 | Jan. 02, 2020 |
|                                         | ESCI                     | 100613         | Dec. 11, 2019 | Dec. 10, 2020 |
| RF signal cable<br>Woken                | 5D-FB                    | Cable-cond1-01 | Sep. 05, 2018 | Sep. 04, 2019 |
|                                         |                          |                | Sep. 05, 2019 | Sep. 04, 2020 |
| LISN<br>ROHDE & SCHWARZ<br>(EUT)        | ENV216                   | 101826         | Feb. 21, 2019 | Feb. 20, 2020 |
|                                         |                          |                | Feb. 20, 2020 | Feb. 19, 2021 |
| LISN<br>ROHDE & SCHWARZ<br>(Peripheral) | ESH3-Z5                  | 100311         | Aug. 19, 2018 | Aug. 18, 2019 |
|                                         |                          |                | Aug. 22, 2019 | Aug. 21, 2020 |
| Software<br>ADT                         | BV ADT_Cond_<br>V7.3.7.4 | NA             | NA            | NA            |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
 2. The test was performed in HwaYa Shielded Room 1.  
 3. The VCCI Site Registration No. is C-12040.  
 4. The measurement uncertainty is 2.94 dB, which is calculated as per the document CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 5.4 測試配置



**Note: 1.**Support units were connected to second LISN.

**2.**Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

#### 5.5 干擾值之計算

餘裕度Margin(dB)= 結果值Emission level (dBuV)-限制值Limit value (dBuV)

電源傳導干擾電壓之計算公式如下

結果值Emission level (dBuV)=校正因子Correction Factor (dB)+儀器讀值Reading value (dBuV)

其中校正因子Correction Factor (dB)為：

饋線損失+電源阻抗模擬網路損失

## 5.6 量測結果

Test Mode A - AP43 (Internal antenna) + Eth6 Radio + POE

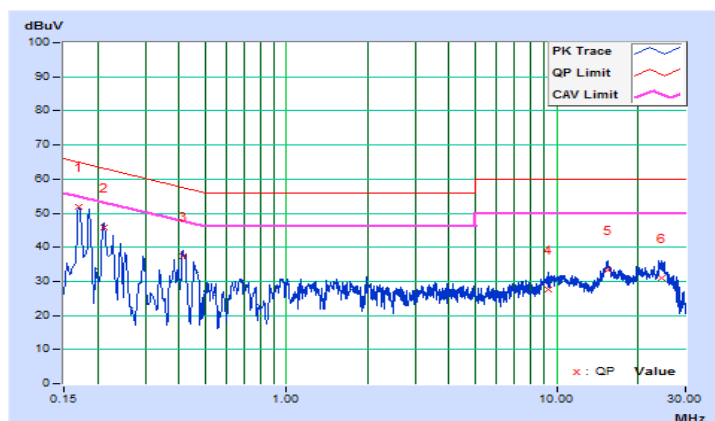
802.11a

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 165 : 5825 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDM              | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.16967  | 9.66 | 42.22                | 30.59 | 51.88     | 40.25 | 64.98           | 54.98 | -13.10 | -14.73 |
| 0.21115  | 9.66 | 36.29                | 25.68 | 45.95     | 35.34 | 63.16           | 53.16 | -17.21 | -17.82 |
| 0.41233  | 9.65 | 27.72                | 18.85 | 37.37     | 28.50 | 57.60           | 47.60 | -20.23 | -19.10 |
| 9.34632  | 9.82 | 17.93                | 12.08 | 27.75     | 21.90 | 60.00           | 50.00 | -32.25 | -28.10 |
| 15.47720 | 9.86 | 23.40                | 19.02 | 33.26     | 28.88 | 60.00           | 50.00 | -26.74 | -21.12 |
| 24.33335 | 9.88 | 21.22                | 15.91 | 31.10     | 25.79 | 60.00           | 50.00 | -28.90 | -24.21 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

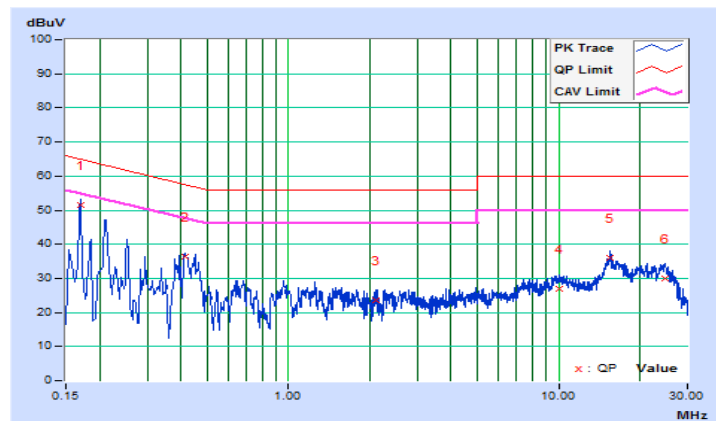


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 165 : 5825 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDM              | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.16955  | 9.66 | 41.79                | 29.84 | 51.45     | 39.50 | 64.98              | 54.98 | -13.53 | -15.48 |
| 0.41233  | 9.65 | 26.70                | 18.00 | 36.35     | 27.65 | 57.60              | 47.60 | -21.25 | -19.95 |
| 2.09718  | 9.66 | 13.78                | 5.95  | 23.44     | 15.61 | 56.00              | 46.00 | -32.56 | -30.39 |
| 10.05794 | 9.84 | 17.04                | 11.39 | 26.88     | 21.23 | 60.00              | 50.00 | -33.12 | -28.77 |
| 15.46938 | 9.90 | 26.15                | 22.08 | 36.05     | 31.98 | 60.00              | 50.00 | -23.95 | -18.02 |
| 24.70089 | 9.97 | 19.91                | 14.74 | 29.88     | 24.71 | 60.00              | 50.00 | -30.12 | -25.29 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



# Test Mode B - AP43 (Internal antenna) + Eth6 Radio + Adapter

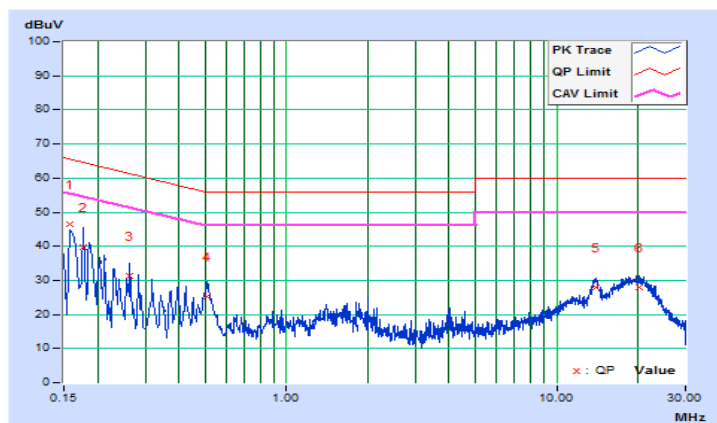
802.11a

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 165 : 5825 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDM              | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.15802  | 9.66 | 36.73                | 21.99 | 46.39     | 31.65 | 65.57           | 55.57 | -19.18 | -23.92 |
| 0.17744  | 9.66 | 30.15                | 13.78 | 39.81     | 23.44 | 64.60           | 54.60 | -24.79 | -31.16 |
| 0.26339  | 9.66 | 21.70                | 7.82  | 31.36     | 17.48 | 61.32           | 51.32 | -29.96 | -33.84 |
| 0.51043  | 9.65 | 15.69                | 5.57  | 25.34     | 15.22 | 56.00           | 46.00 | -30.66 | -30.78 |
| 13.90929 | 9.85 | 18.09                | 12.12 | 27.94     | 21.97 | 60.00           | 50.00 | -32.06 | -28.03 |
| 20.25522 | 9.87 | 17.95                | 12.48 | 27.82     | 22.35 | 60.00           | 50.00 | -32.18 | -27.65 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

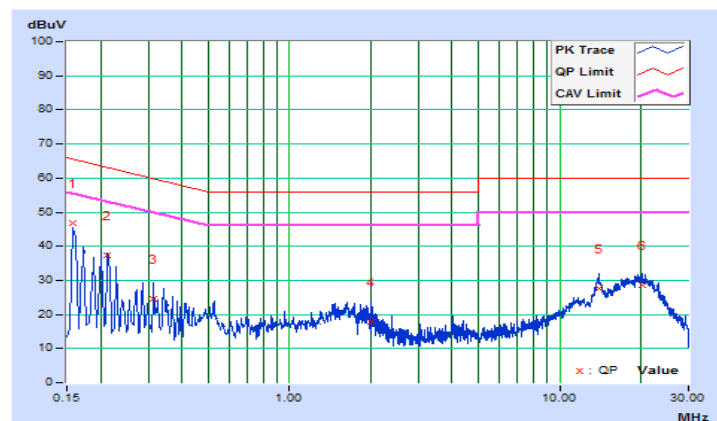


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 165 : 5825 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDM              | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.15802  | 9.66 | 37.15                | 21.66 | 46.81     | 31.32 | 65.57              | 55.57 | -18.76 | -24.25 |
| 0.21256  | 9.66 | 27.71                | 12.33 | 37.37     | 21.99 | 63.10              | 53.10 | -25.73 | -31.11 |
| 0.31422  | 9.65 | 15.05                | 4.60  | 24.70     | 14.25 | 59.86              | 49.86 | -35.16 | -35.61 |
| 2.01507  | 9.66 | 8.33                 | 1.23  | 17.99     | 10.89 | 56.00              | 46.00 | -38.01 | -35.11 |
| 13.99531 | 9.88 | 17.71                | 11.54 | 27.59     | 21.42 | 60.00              | 50.00 | -32.41 | -28.58 |
| 20.25913 | 9.94 | 18.62                | 13.17 | 28.56     | 23.11 | 60.00              | 50.00 | -31.44 | -26.89 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



# Test Mode C - AP43 (Internal antenna) + Eth7 Radio + POE

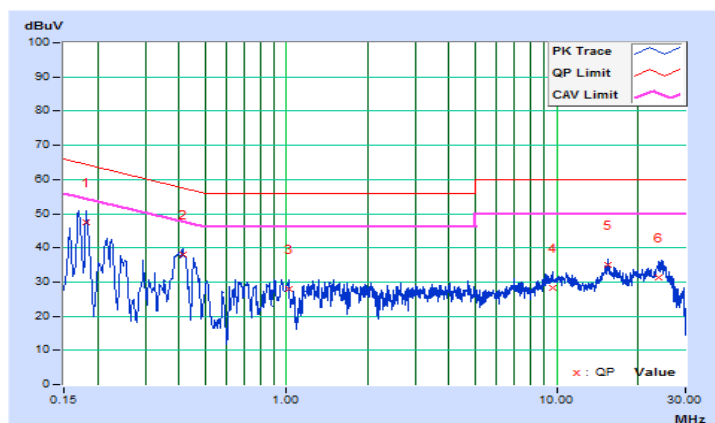
802.11ax (HE20)

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.18122  | 9.66 | 37.87                | 20.44 | 47.53     | 30.10 | 64.43           | 54.43 | -16.90 | -24.33 |
| 0.41233  | 9.65 | 28.41                | 20.15 | 38.06     | 29.80 | 57.60           | 47.60 | -19.54 | -17.80 |
| 1.01799  | 9.64 | 18.18                | 8.91  | 27.82     | 18.55 | 56.00           | 46.00 | -28.18 | -27.45 |
| 9.72168  | 9.82 | 18.42                | 12.81 | 28.24     | 22.63 | 60.00           | 50.00 | -31.76 | -27.37 |
| 15.46156 | 9.86 | 25.01                | 21.14 | 34.87     | 31.00 | 60.00           | 50.00 | -25.13 | -19.00 |
| 23.94626 | 9.88 | 21.32                | 16.05 | 31.20     | 25.93 | 60.00           | 50.00 | -28.80 | -24.07 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

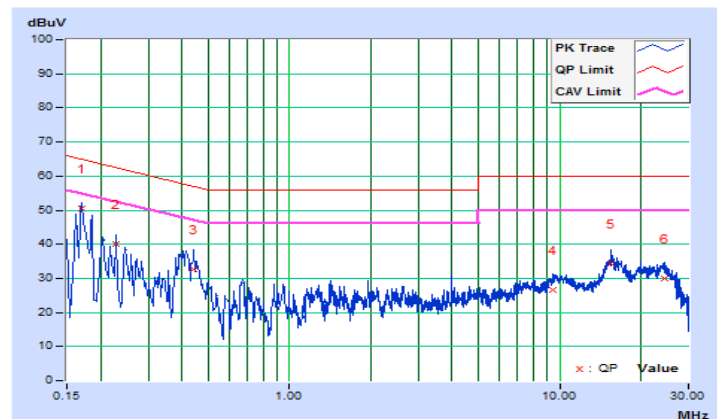


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.16955  | 9.66 | 40.99                | 29.05 | 50.65     | 38.71 | 64.98              | 54.98 | -14.33 | -16.27 |
| 0.22820  | 9.66 | 30.29                | 11.64 | 39.95     | 21.30 | 62.51              | 52.51 | -22.56 | -31.21 |
| 0.44325  | 9.65 | 22.91                | 8.76  | 32.56     | 18.41 | 57.00              | 47.00 | -24.44 | -28.59 |
| 9.43234  | 9.83 | 16.81                | 10.99 | 26.64     | 20.82 | 60.00              | 50.00 | -33.36 | -29.18 |
| 15.46547 | 9.90 | 24.40                | 19.96 | 34.30     | 29.86 | 60.00              | 50.00 | -25.70 | -20.14 |
| 24.57577 | 9.97 | 20.07                | 14.88 | 30.04     | 24.85 | 60.00              | 50.00 | -29.96 | -25.15 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



# Test Mode D - AP43 (Internal antenna) + Eth7 Radio + Adapter

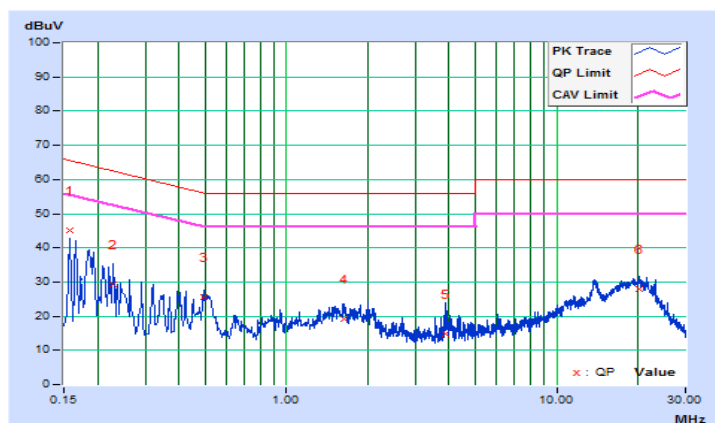
802.11ax (HE20)

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.15782  | 9.66 | 35.59                | 20.89 | 45.25     | 30.55 | 65.58           | 55.58 | -20.33 | -25.03 |
| 0.22820  | 9.66 | 19.72                | 2.42  | 29.38     | 12.08 | 62.51           | 52.51 | -33.13 | -40.43 |
| 0.49408  | 9.65 | 16.05                | 8.62  | 25.70     | 18.27 | 56.10           | 46.10 | -30.40 | -27.83 |
| 1.64362  | 9.65 | 9.38                 | 3.73  | 19.03     | 13.38 | 56.00           | 46.00 | -36.97 | -32.62 |
| 3.90360  | 9.71 | 4.95                 | 2.96  | 14.66     | 12.67 | 56.00           | 46.00 | -41.34 | -33.33 |
| 20.25563 | 9.87 | 18.13                | 12.75 | 28.00     | 22.62 | 60.00           | 50.00 | -32.00 | -27.38 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

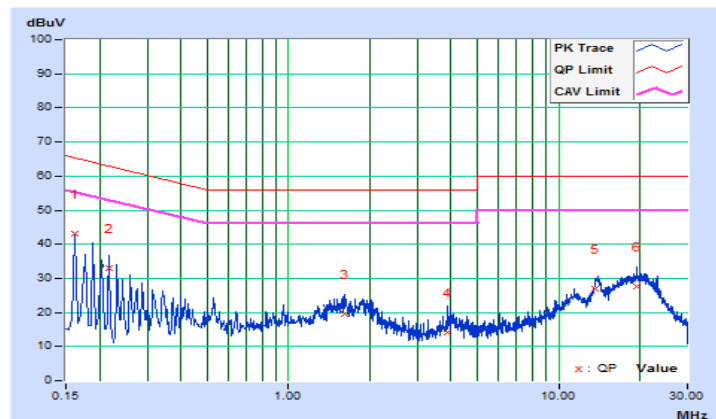


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.16173  | 9.66 | 33.33                | 17.43 | 42.99     | 27.09 | 65.37              | 55.37 | -22.38 | -28.28 |
| 0.21647  | 9.66 | 23.47                | 6.63  | 33.13     | 16.29 | 62.95              | 52.95 | -29.82 | -36.66 |
| 1.60452  | 9.65 | 9.93                 | 4.10  | 19.58     | 13.75 | 56.00              | 46.00 | -36.42 | -32.25 |
| 3.88796  | 9.71 | 4.46                 | 3.65  | 14.17     | 13.36 | 56.00              | 46.00 | -41.83 | -32.64 |
| 13.72161 | 9.88 | 16.90                | 10.70 | 26.78     | 20.58 | 60.00              | 50.00 | -33.22 | -29.42 |
| 19.45758 | 9.94 | 17.53                | 11.85 | 27.47     | 21.79 | 60.00              | 50.00 | -32.53 | -28.21 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



# Test Mode E - AP43 (Internal antenna) + Eth8 Radio + POE

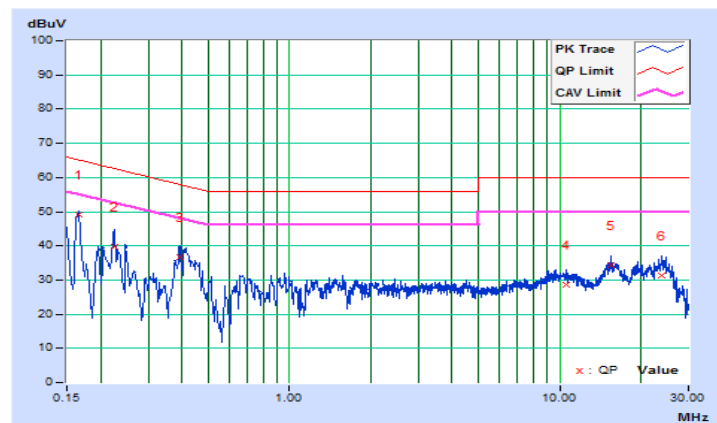
802.11ax (HE20)

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.16526  | 9.66 | 39.36                | 27.22 | 49.02     | 36.88 | 65.20           | 55.20 | -16.18 | -18.32 |
| 0.22434  | 9.66 | 30.20                | 14.70 | 39.86     | 24.36 | 62.66           | 52.66 | -22.80 | -28.30 |
| 0.39219  | 9.65 | 27.00                | 14.31 | 36.65     | 23.96 | 58.02           | 48.02 | -21.37 | -24.06 |
| 10.58188 | 9.83 | 18.70                | 13.37 | 28.53     | 23.20 | 60.00           | 50.00 | -31.47 | -26.80 |
| 15.45374 | 9.86 | 24.55                | 20.75 | 34.41     | 30.61 | 60.00           | 50.00 | -25.59 | -19.39 |
| 23.78595 | 9.88 | 21.34                | 16.07 | 31.22     | 25.95 | 60.00           | 50.00 | -28.78 | -24.05 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

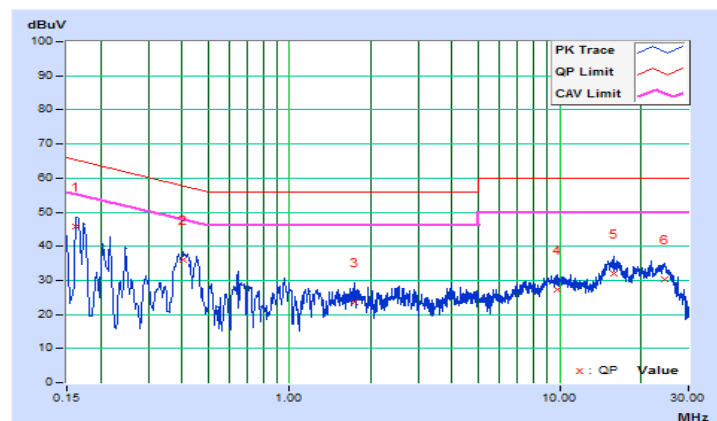


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.16181  | 9.66 | 36.11                | 21.08 | 45.77     | 30.74 | 65.37              | 55.37 | -19.60 | -24.63 |
| 0.40479  | 9.65 | 26.40                | 15.36 | 36.05     | 25.01 | 57.75              | 47.75 | -21.70 | -22.74 |
| 1.73355  | 9.65 | 14.06                | 4.89  | 23.71     | 14.54 | 56.00              | 46.00 | -32.29 | -31.46 |
| 9.85462  | 9.84 | 17.59                | 11.95 | 27.43     | 21.79 | 60.00              | 50.00 | -32.57 | -28.21 |
| 15.84474 | 9.90 | 21.92                | 16.48 | 31.82     | 26.38 | 60.00              | 50.00 | -28.18 | -23.62 |
| 24.59141 | 9.97 | 20.39                | 15.36 | 30.36     | 25.33 | 60.00              | 50.00 | -29.64 | -24.67 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



# Test Mode F - AP43 (Internal antenna) + Eth8 Radio + Adapter

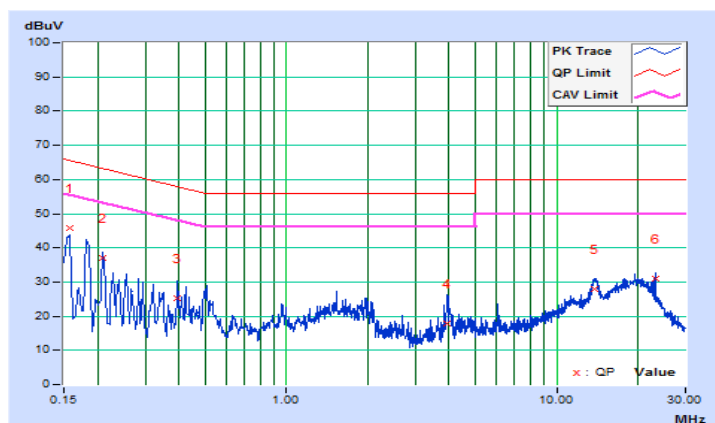
802.11ax (HE20)

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.15760  | 9.66 | 36.24                | 21.79 | 45.90     | 31.45 | 65.59           | 55.59 | -19.69 | -24.14 |
| 0.20865  | 9.66 | 27.49                | 14.55 | 37.15     | 24.21 | 63.26           | 53.26 | -26.11 | -29.05 |
| 0.39635  | 9.65 | 15.76                | 6.00  | 25.41     | 15.65 | 57.93           | 47.93 | -32.52 | -32.28 |
| 3.94270  | 9.71 | 8.24                 | 1.20  | 17.95     | 10.91 | 56.00           | 46.00 | -38.05 | -35.09 |
| 13.85064 | 9.85 | 17.98                | 11.95 | 27.83     | 21.80 | 60.00           | 50.00 | -32.17 | -28.20 |
| 23.12907 | 9.88 | 20.95                | 17.21 | 30.83     | 27.09 | 60.00           | 50.00 | -29.17 | -22.91 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

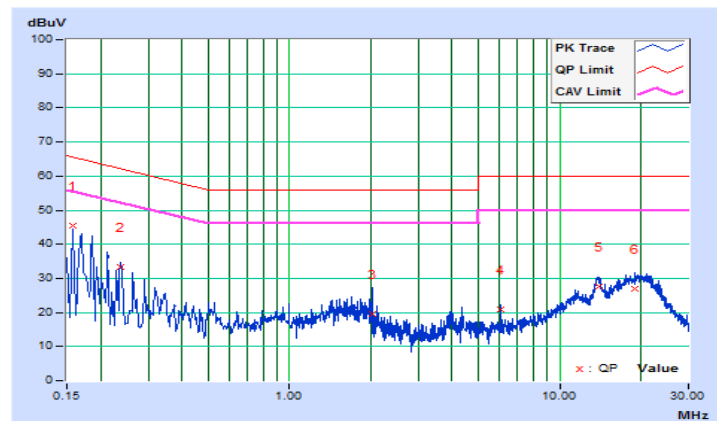


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.15782  | 9.66 | 35.95                | 21.12 | 45.61     | 30.78 | 65.58              | 55.58 | -19.97 | -24.80 |
| 0.23602  | 9.66 | 23.53                | 11.15 | 33.19     | 20.81 | 62.24              | 52.24 | -29.05 | -31.43 |
| 2.01898  | 9.66 | 9.83                 | 1.55  | 19.49     | 11.21 | 56.00              | 46.00 | -36.51 | -34.79 |
| 6.07365  | 9.75 | 10.97                | 8.25  | 20.72     | 18.00 | 60.00              | 50.00 | -39.28 | -32.00 |
| 13.92884 | 9.88 | 17.69                | 11.67 | 27.57     | 21.55 | 60.00              | 50.00 | -32.43 | -28.45 |
| 19.08222 | 9.93 | 17.16                | 11.38 | 27.09     | 21.31 | 60.00              | 50.00 | -32.91 | -28.69 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



Test Mode G - AP43E (External antenna - PN: ATS-OO-245-46-4RPSP-36) + Eth6 Radio + POE

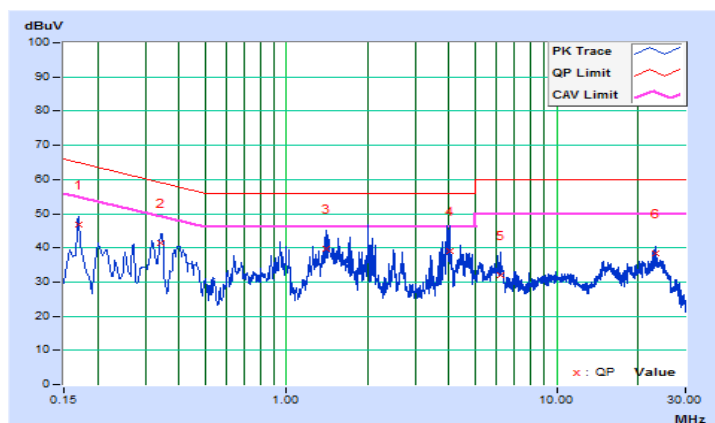
802.11a

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 165 : 5825 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDM              | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

| 輻射頻率<br>[MHz] | 校正因子<br>[dB] | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|---------------|--------------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
|               |              | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
|               |              | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|               |              | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.16955       | 9.66         | 37.14                | 26.96 | 46.80     | 36.62 | 64.98           | 54.98 | -18.18 | -18.36 |
| 0.34469       | 9.65         | 31.79                | 31.28 | 41.44     | 40.93 | 59.09           | 49.09 | -17.65 | -8.16  |
| 1.40902       | 9.65         | 29.99                | 23.05 | 39.64     | 32.70 | 56.00           | 46.00 | -16.36 | -13.30 |
| 4.02872       | 9.71         | 29.43                | 20.86 | 39.14     | 30.57 | 56.00           | 46.00 | -16.86 | -15.43 |
| 6.17531       | 9.75         | 22.07                | 14.42 | 31.82     | 24.17 | 60.00           | 50.00 | -28.18 | -25.83 |
| 23.12516      | 9.88         | 28.40                | 24.94 | 38.28     | 34.82 | 60.00           | 50.00 | -21.72 | -15.18 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

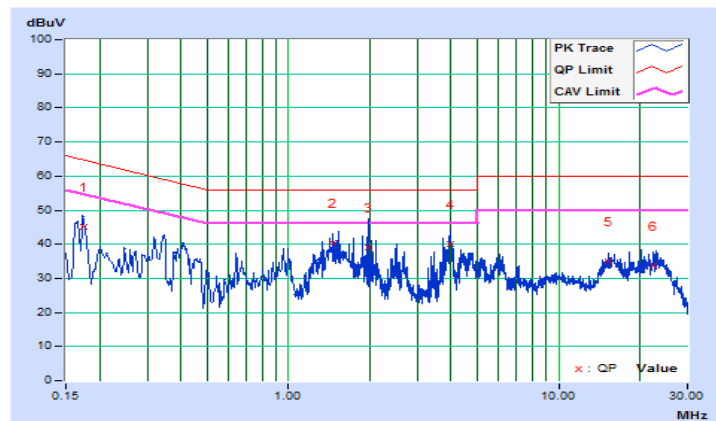


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 165 : 5825 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDM              | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.17374  | 9.66 | 35.34                | 25.18 | 45.00     | 34.84 | 64.78              | 54.78 | -19.78 | -19.94 |
| 1.45203  | 9.64 | 30.63                | 23.19 | 40.27     | 32.83 | 56.00              | 46.00 | -15.73 | -13.17 |
| 1.97597  | 9.66 | 29.52                | 16.46 | 39.18     | 26.12 | 56.00              | 46.00 | -16.82 | -19.88 |
| 3.96616  | 9.71 | 30.32                | 21.27 | 40.03     | 30.98 | 56.00              | 46.00 | -15.97 | -15.02 |
| 15.25042 | 9.90 | 25.10                | 19.94 | 35.00     | 29.84 | 60.00              | 50.00 | -25.00 | -20.16 |
| 22.51911 | 9.96 | 23.68                | 18.68 | 33.64     | 28.64 | 60.00              | 50.00 | -26.36 | -21.36 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



Test Mode H - AP43E (External antenna - PN: ATS-OO-245-46-4RPSP-36) + Eth6 Radio + Adapter

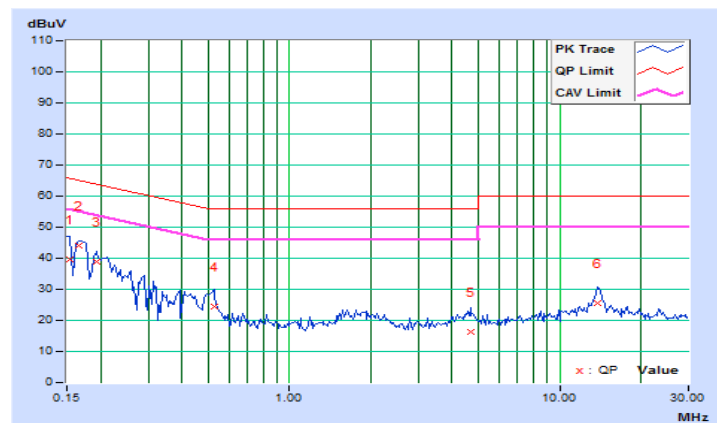
802.11a

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 165 : 5825 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDM              | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.15391  | 9.69 | 29.90                | 3.79  | 39.59     | 13.48 | 65.79           | 55.79 | -26.20 | -42.31 |
| 0.16562  | 9.69 | 34.35                | 20.25 | 44.04     | 29.94 | 65.18           | 55.18 | -21.14 | -25.24 |
| 0.19297  | 9.68 | 29.29                | 16.11 | 38.97     | 25.79 | 63.91           | 53.91 | -24.94 | -28.12 |
| 0.52500  | 9.68 | 14.62                | 5.66  | 24.30     | 15.34 | 56.00           | 46.00 | -31.70 | -30.66 |
| 4.69141  | 9.76 | 6.56                 | 1.24  | 16.32     | 11.00 | 56.00           | 46.00 | -39.68 | -35.00 |
| 13.88281 | 9.90 | 15.69                | 9.93  | 25.59     | 19.83 | 60.00           | 50.00 | -34.41 | -30.17 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

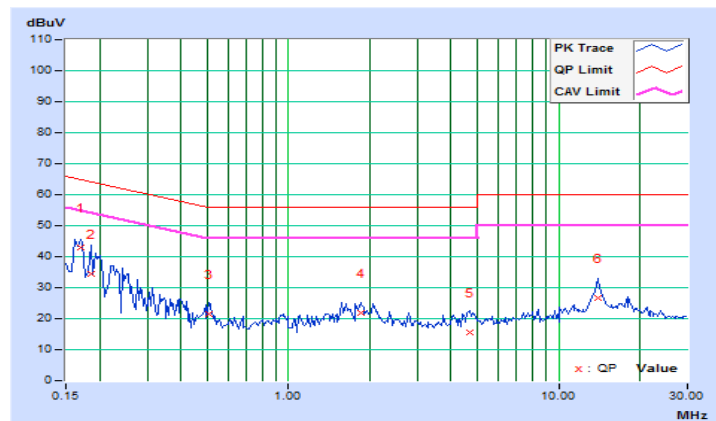


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 165 : 5825 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDM              | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.16953  | 9.66 | 33.40                | 19.42 | 43.06     | 29.08 | 64.98              | 54.98 | -21.92 | -25.90 |
| 0.18516  | 9.66 | 24.91                | 3.06  | 34.57     | 12.72 | 64.25              | 54.25 | -29.68 | -41.53 |
| 0.50547  | 9.65 | 11.91                | 2.33  | 21.56     | 11.98 | 56.00              | 46.00 | -34.44 | -34.02 |
| 1.85547  | 9.67 | 12.13                | 5.40  | 21.80     | 15.07 | 56.00              | 46.00 | -34.20 | -30.93 |
| 4.66797  | 9.73 | 5.79                 | 1.55  | 15.52     | 11.28 | 56.00              | 46.00 | -40.48 | -34.72 |
| 14.03125 | 9.91 | 16.75                | 10.80 | 26.66     | 20.71 | 60.00              | 50.00 | -33.34 | -29.29 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



Test Mode I - AP43E (External antenna - PN: ATS-OO-245-46-4RPSP-36) + Eth7 Radio + POE

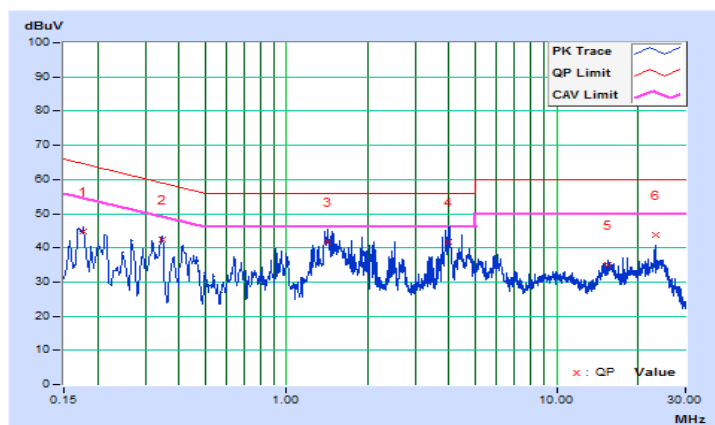
802.11ax (HE20)

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.17737  | 9.66 | 34.96                | 25.87 | 44.62     | 35.53 | 64.61           | 54.61 | -19.99 | -19.08 |
| 0.34550  | 9.65 | 32.74                | 32.43 | 42.39     | 42.08 | 59.07           | 49.07 | -16.68 | -6.99  |
| 1.42466  | 9.65 | 32.18                | 25.21 | 41.83     | 34.86 | 56.00           | 46.00 | -14.17 | -11.14 |
| 3.97398  | 9.71 | 32.13                | 23.32 | 41.84     | 33.03 | 56.00           | 46.00 | -14.16 | -12.97 |
| 15.44201 | 9.86 | 25.28                | 21.78 | 35.14     | 31.64 | 60.00           | 50.00 | -24.86 | -18.36 |
| 23.12907 | 9.88 | 33.81                | 30.40 | 43.69     | 40.28 | 60.00           | 50.00 | -16.31 | -9.72  |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

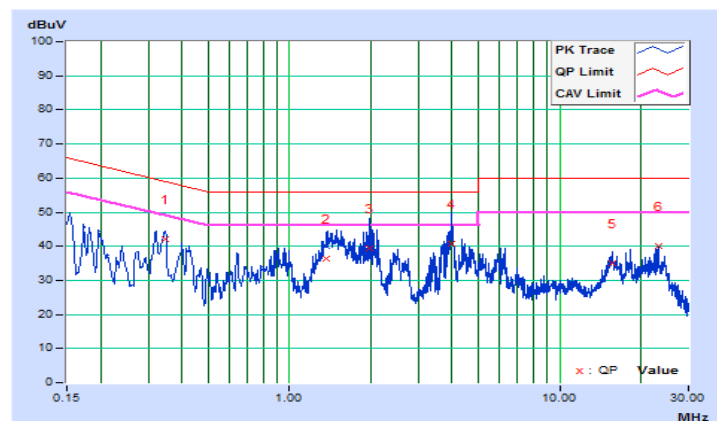


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.34560  | 9.65 | 32.50                | 32.03 | 42.15     | 41.68 | 59.07              | 49.07 | -16.92 | -7.39  |
| 1.36601  | 9.64 | 26.67                | 20.09 | 36.31     | 29.73 | 56.00              | 46.00 | -19.69 | -16.27 |
| 1.96815  | 9.66 | 29.59                | 18.69 | 39.25     | 28.35 | 56.00              | 46.00 | -16.75 | -17.65 |
| 3.99353  | 9.71 | 30.90                | 22.14 | 40.61     | 31.85 | 56.00              | 46.00 | -15.39 | -14.15 |
| 15.61796 | 9.90 | 25.19                | 19.89 | 35.09     | 29.79 | 60.00              | 50.00 | -24.91 | -20.21 |
| 23.12516 | 9.96 | 30.09                | 27.02 | 40.05     | 36.98 | 60.00              | 50.00 | -19.95 | -13.02 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



Test Mode J - AP43E (External antenna - PN: ATS-OO-245-46-4RPSP-36) + Eth7 Radio + Adapter

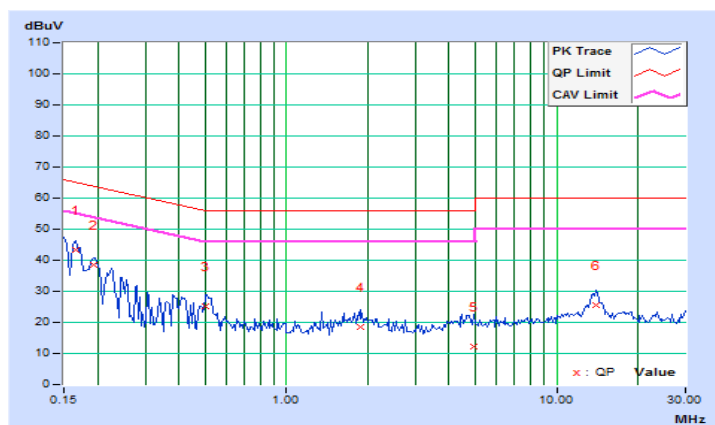
802.11ax (HE20)

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.16562  | 9.69 | 33.52                | 19.86 | 43.21     | 29.55 | 65.18           | 55.18 | -21.97 | -25.63 |
| 0.19297  | 9.68 | 28.83                | 14.83 | 38.51     | 24.51 | 63.91           | 53.91 | -25.40 | -29.40 |
| 0.50156  | 9.68 | 15.68                | 7.59  | 25.36     | 17.27 | 56.00           | 46.00 | -30.64 | -28.73 |
| 1.88672  | 9.70 | 8.77                 | 1.60  | 18.47     | 11.30 | 56.00           | 46.00 | -37.53 | -34.70 |
| 4.96484  | 9.77 | 2.57                 | 1.33  | 12.34     | 11.10 | 56.00           | 46.00 | -43.66 | -34.90 |
| 13.98828 | 9.90 | 15.68                | 9.74  | 25.58     | 19.64 | 60.00           | 50.00 | -34.42 | -30.36 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

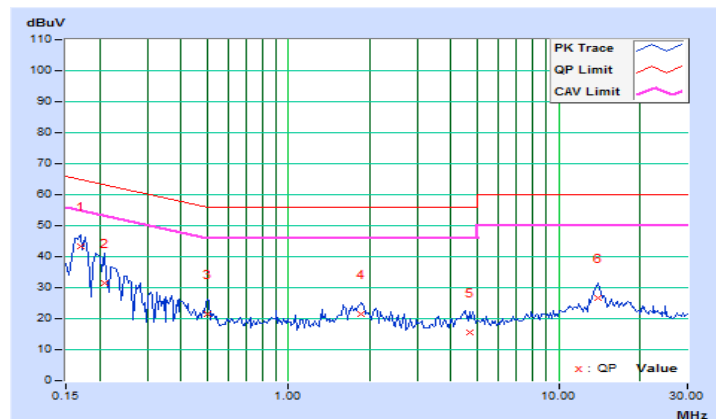


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 108 年 04 月 15 日 |
| 基本波頻率 | CH 149 : 5745 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 彭民達               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.16953  | 9.66 | 33.52                | 19.52 | 43.18     | 29.18 | 64.98              | 54.98 | -21.80 | -25.80 |
| 0.20859  | 9.66 | 21.77                | 1.57  | 31.43     | 11.23 | 63.26              | 53.26 | -31.83 | -42.03 |
| 0.50156  | 9.65 | 11.83                | 1.84  | 21.48     | 11.49 | 56.00              | 46.00 | -34.52 | -34.51 |
| 1.85156  | 9.67 | 11.95                | 5.42  | 21.62     | 15.09 | 56.00              | 46.00 | -34.38 | -30.91 |
| 4.67188  | 9.73 | 5.71                 | 1.39  | 15.44     | 11.12 | 56.00              | 46.00 | -40.56 | -34.88 |
| 14.04688 | 9.91 | 16.61                | 10.21 | 26.52     | 20.12 | 60.00              | 50.00 | -33.48 | -29.88 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



Test Mode K - AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth6 Radio + POE

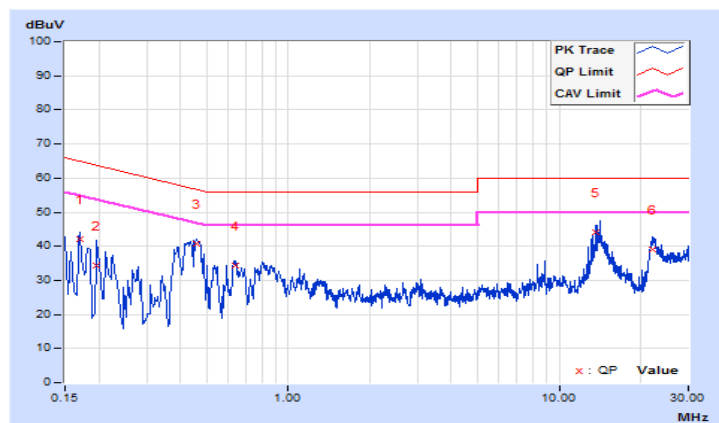
802.11ax (HE40)

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 109 年 03 月 02 日 |
| 基本波頻率 | CH 159 : 5795 MHz | 量測場地溫度 | 25℃             |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 張睿晉               |        |                 |

| 輻射頻率<br>[MHz] | 校正因子<br>[dB] | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|---------------|--------------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
|               |              | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
|               |              | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|               |              | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.16955       | 9.56         | 32.52                | 22.28 | 42.08     | 31.84 | 64.98           | 54.98 | -22.90 | -23.14 |
| 0.19692       | 9.55         | 24.78                | 3.98  | 34.33     | 13.53 | 63.74           | 53.74 | -29.41 | -40.21 |
| 0.45816       | 9.57         | 31.30                | 21.94 | 40.87     | 31.51 | 56.73           | 46.73 | -15.86 | -15.22 |
| 0.63484       | 9.59         | 24.84                | 16.50 | 34.43     | 26.09 | 56.00           | 46.00 | -21.57 | -19.91 |
| 13.63168      | 9.81         | 34.36                | 32.59 | 44.17     | 42.40 | 60.00           | 50.00 | -15.83 | -7.60  |
| 22.21022      | 9.83         | 29.28                | 24.03 | 39.11     | 33.86 | 60.00           | 50.00 | -20.89 | -16.14 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

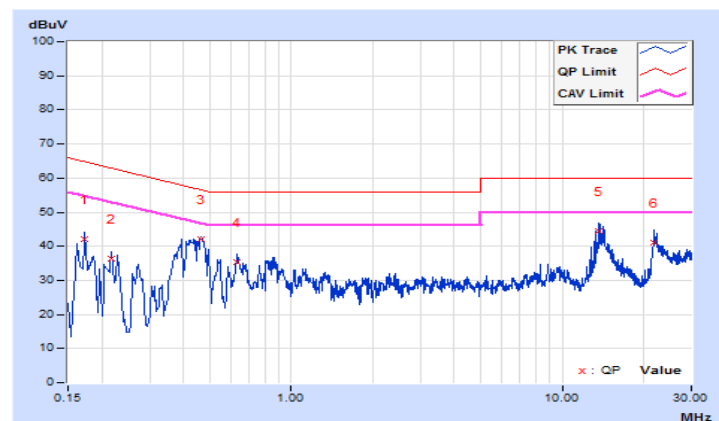


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 109 年 03 月 02 日 |
| 基本波頻率 | CH 159 : 5795 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 張睿晉               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.17346  | 9.54 | 32.59                | 23.10 | 42.13     | 32.64 | 64.79              | 54.79 | -22.66 | -22.15 |
| 0.21647  | 9.53 | 26.84                | 17.70 | 36.37     | 27.23 | 62.95              | 52.95 | -26.58 | -25.72 |
| 0.46179  | 9.55 | 32.38                | 23.75 | 41.93     | 33.30 | 56.66              | 46.66 | -14.73 | -13.36 |
| 0.63093  | 9.57 | 25.89                | 17.19 | 35.46     | 26.76 | 56.00              | 46.00 | -20.54 | -19.24 |
| 13.62777 | 9.83 | 34.56                | 32.84 | 44.39     | 42.67 | 60.00              | 50.00 | -15.61 | -7.33  |
| 21.95998 | 9.89 | 31.14                | 26.75 | 41.03     | 36.64 | 60.00              | 50.00 | -18.97 | -13.36 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



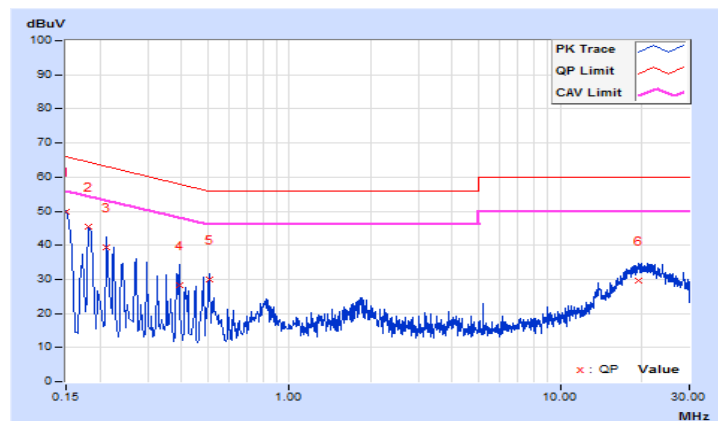
Test Mode L - AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth6 Radio + Adapter  
802.11ax (HE40)

|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 109 年 03 月 02 日 |
| 基本波頻率 | CH 159 : 5795 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 張睿晉               |        |                 |

| 輻射頻率<br>[MHz] | 校正因子<br>[dB] | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|---------------|--------------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
|               |              | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
|               |              | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|               |              | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.15000       | 9.56         | 40.13                | 29.21 | 49.69     | 38.77 | 66.00           | 56.00 | -16.31 | -17.23 |
| 0.18128       | 9.55         | 35.74                | 22.22 | 45.29     | 31.77 | 64.43           | 54.43 | -19.14 | -22.66 |
| 0.21256       | 9.55         | 29.87                | 15.77 | 39.42     | 25.32 | 63.10           | 53.10 | -23.68 | -27.78 |
| 0.39242       | 9.57         | 18.69                | 5.43  | 28.26     | 15.00 | 58.01           | 48.01 | -29.75 | -33.01 |
| 0.50581       | 9.58         | 20.23                | 12.01 | 29.81     | 21.59 | 56.00           | 46.00 | -26.19 | -24.41 |
| 19.45367      | 9.83         | 19.78                | 14.46 | 29.61     | 24.29 | 60.00           | 50.00 | -30.39 | -25.71 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

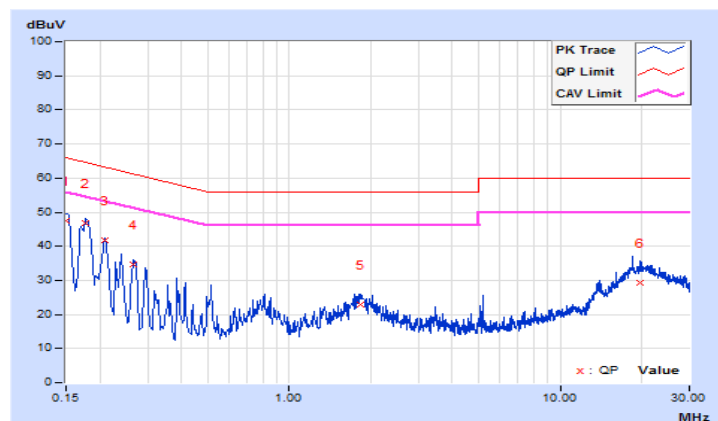


|       |                   |        |                 |
|-------|-------------------|--------|-----------------|
| 操作模式  | 發射/接收             | 測試日期   | 109 年 03 月 02 日 |
| 基本波頻率 | CH 159 : 5795 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO        | 量測場地濕度 | 75%RH           |
| 測試者   | 張睿晉               |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.15000  | 9.54 | 38.02                | 28.89 | 47.56     | 38.43 | 66.00              | 56.00 | -18.44 | -17.57 |
| 0.17737  | 9.53 | 37.43                | 23.91 | 46.96     | 33.44 | 64.61              | 54.61 | -17.65 | -21.17 |
| 0.20865  | 9.53 | 32.31                | 19.30 | 41.84     | 28.83 | 63.26              | 53.26 | -21.42 | -24.43 |
| 0.26730  | 9.54 | 25.24                | 11.08 | 34.78     | 20.62 | 61.20              | 51.20 | -26.42 | -30.58 |
| 1.84303  | 9.62 | 13.26                | 5.49  | 22.88     | 15.11 | 56.00              | 46.00 | -33.12 | -30.89 |
| 19.82903 | 9.88 | 19.41                | 14.24 | 29.29     | 24.12 | 60.00              | 50.00 | -30.71 | -25.88 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



Test Mode M - AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth7 Radio + POE

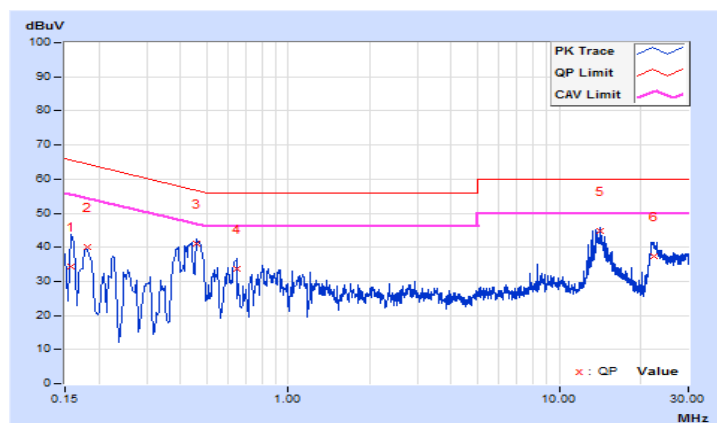
802.11ax (HE20)

|       |                  |        |                 |
|-------|------------------|--------|-----------------|
| 操作模式  | 發射/接收            | 測試日期   | 109 年 03 月 02 日 |
| 基本波頻率 | CH 40 : 5200 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO       | 量測場地濕度 | 75%RH           |
| 測試者   | 張睿晉              |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.15782  | 9.56 | 24.62                | 4.79  | 34.18     | 14.35 | 65.58           | 55.58 | -31.40 | -41.23 |
| 0.18128  | 9.55 | 30.61                | 19.46 | 40.16     | 29.01 | 64.43           | 54.43 | -24.27 | -25.42 |
| 0.45889  | 9.57 | 31.46                | 22.05 | 41.03     | 31.62 | 56.71           | 46.71 | -15.68 | -15.09 |
| 0.64532  | 9.59 | 24.17                | 15.16 | 33.76     | 24.75 | 56.00           | 46.00 | -22.24 | -21.25 |
| 14.13607 | 9.81 | 34.84                | 32.30 | 44.65     | 42.11 | 60.00           | 50.00 | -15.35 | -7.89  |
| 22.37835 | 9.83 | 27.58                | 22.17 | 37.41     | 32.00 | 60.00           | 50.00 | -22.59 | -18.00 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Corrected factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

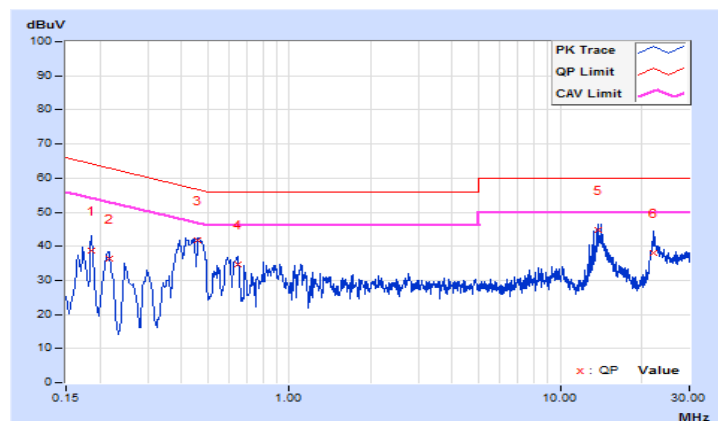


|       |                  |        |                 |
|-------|------------------|--------|-----------------|
| 操作模式  | 發射/接收            | 測試日期   | 109 年 03 月 02 日 |
| 基本波頻率 | CH 40 : 5200 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO       | 量測場地濕度 | 75%RH           |
| 測試者   | 張睿晉              |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.18519  | 9.53 | 29.28                | 15.53 | 38.81     | 25.06 | 64.25              | 54.25 | -25.44 | -29.19 |
| 0.21565  | 9.53 | 26.96                | 18.26 | 36.49     | 27.79 | 62.98              | 52.98 | -26.49 | -25.19 |
| 0.45889  | 9.55 | 32.23                | 23.05 | 41.78     | 32.60 | 56.71              | 46.71 | -14.93 | -14.11 |
| 0.64657  | 9.57 | 25.08                | 15.85 | 34.65     | 25.42 | 56.00              | 46.00 | -21.35 | -20.58 |
| 13.88192 | 9.83 | 34.88                | 32.52 | 44.71     | 42.35 | 60.00              | 50.00 | -15.29 | -7.65  |
| 22.04209 | 9.89 | 28.11                | 22.87 | 38.00     | 32.76 | 60.00              | 50.00 | -22.00 | -17.24 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



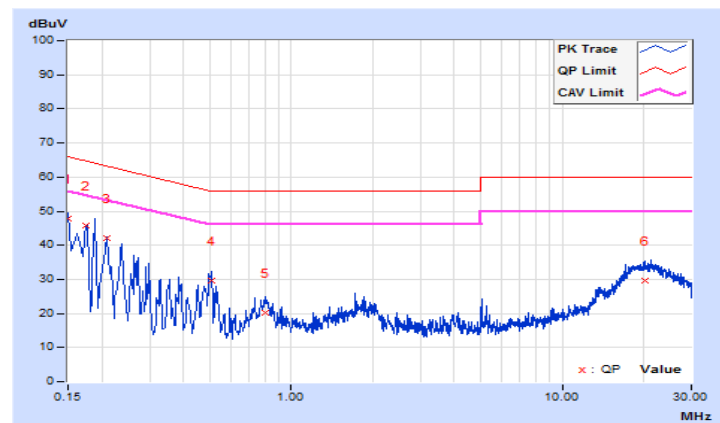
Test Mode N - AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth7 Radio + Adapter  
802.11ax (HE20)

|       |                  |        |                 |
|-------|------------------|--------|-----------------|
| 操作模式  | 發射/接收            | 測試日期   | 109 年 03 月 02 日 |
| 基本波頻率 | CH 40 : 5200 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO       | 量測場地濕度 | 75%RH           |
| 測試者   | 張睿晉              |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: LINE (L) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|-----------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值             |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]       |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.            | AV.   | Q.P.   | AV.    |
| 0.15000  | 9.56 | 38.11                | 29.21 | 47.67     | 38.77 | 66.00           | 56.00 | -18.33 | -17.23 |
| 0.17466  | 9.56 | 36.22                | 22.11 | 45.78     | 31.67 | 64.74           | 54.74 | -18.96 | -23.07 |
| 0.20865  | 9.55 | 32.51                | 20.18 | 42.06     | 29.73 | 63.26           | 53.26 | -21.20 | -23.53 |
| 0.50581  | 9.58 | 20.18                | 11.83 | 29.76     | 21.41 | 56.00           | 46.00 | -26.24 | -24.59 |
| 0.79885  | 9.60 | 10.52                | 4.67  | 20.12     | 14.27 | 56.00           | 46.00 | -35.88 | -31.73 |
| 20.25131 | 9.83 | 19.95                | 14.68 | 29.78     | 24.51 | 60.00           | 50.00 | -30.22 | -25.49 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

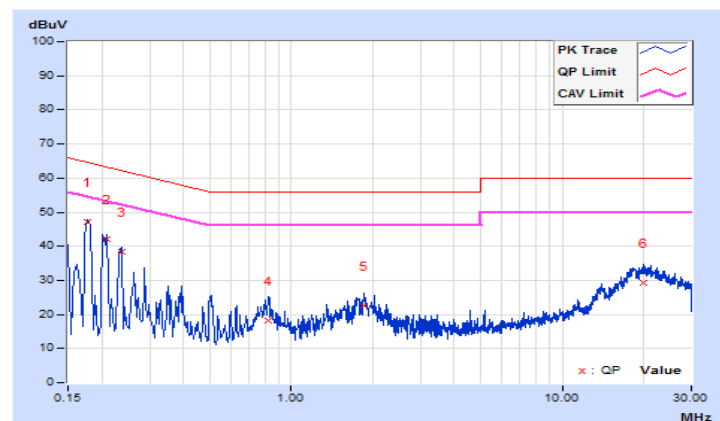


|       |                  |        |                 |
|-------|------------------|--------|-----------------|
| 操作模式  | 發射/接收            | 測試日期   | 109 年 03 月 02 日 |
| 基本波頻率 | CH 40 : 5200 MHz | 量測場地溫度 | 25°C            |
| 調變技術  | OFDMA-MIMO       | 量測場地濕度 | 75%RH           |
| 測試者   | 張睿晉              |        |                 |

|          |      | 6 dB Bandwidth: 9kHz |       |           |       | PHASE: NEUTRAL (N) |       |        |        |
|----------|------|----------------------|-------|-----------|-------|--------------------|-------|--------|--------|
| 輻射頻率     | 校正因子 | 儀器讀值                 |       | 結果值       |       | 限制值                |       | 餘裕度    |        |
| [MHz]    | [dB] | [dB (uV)]            |       | [dB (uV)] |       | [dB (uV)]          |       | [dB]   |        |
|          |      | Q.P.                 | AV.   | Q.P.      | AV.   | Q.P.               | AV.   | Q.P.   | AV.    |
| 0.17737  | 9.53 | 37.66                | 24.48 | 47.19     | 34.01 | 64.61              | 54.61 | -17.42 | -20.60 |
| 0.20865  | 9.53 | 32.41                | 19.78 | 41.94     | 29.31 | 63.26              | 53.26 | -21.32 | -23.95 |
| 0.23602  | 9.53 | 28.85                | 15.24 | 38.38     | 24.77 | 62.24              | 52.24 | -23.86 | -27.47 |
| 0.81861  | 9.58 | 8.50                 | 3.40  | 18.08     | 12.98 | 56.00              | 46.00 | -37.92 | -33.02 |
| 1.84694  | 9.62 | 12.97                | 5.40  | 22.59     | 15.02 | 56.00              | 46.00 | -33.41 | -30.98 |
| 19.98543 | 9.88 | 19.29                | 14.10 | 29.17     | 23.98 | 60.00              | 50.00 | -30.83 | -26.02 |

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



## 5.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

## 5.8 配置照片

請參閱附件（測試設置照片）。

## 6 峰值傳導輸出功率量測及發射頻寬之要求

### 6.1 適用標準

| 待測物操作頻帶                                                 | 適用標準                                                                                |
|---------------------------------------------------------|-------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> 5.15 GHz~5.25 GHz   | <input type="checkbox"/> 請見本報告 3.1 節第 6 項(II)(A)及 4 項(II)(A)的規定(供戶外操作使用)            |
|                                                         | <input checked="" type="checkbox"/> 請見本報告 3.1 節第 6 項(II)(A)及 4 項(II)(B)的規定(供室內操作使用) |
|                                                         | <input type="checkbox"/> 請見本報告 3.1 節第 6 項(II)(A)及 4 項(II)(C)的規定(供固定式點對點操作使用)        |
|                                                         | <input type="checkbox"/> 請見本報告 3.1 節第 6 項(II)(B)及 4 項(II)(D)的規定(供用戶端裝置使用)           |
| <input type="checkbox"/> 5.25 GHz~5.35 GHz              | 請見本報告 3.1 節第 6 項(III)及 4 項(III)的規定                                                  |
| <input type="checkbox"/> 5.470 GHz~5.725 GHz            | 請見本報告 3.1 節第 6 項(III)及 4 項(III)的規定                                                  |
| <input checked="" type="checkbox"/> 5.725 GHz~5.850 GHz | 請見本報告 3.1 節第 6 項(IV)及 4 項(IV)的規定                                                    |

### 6.2 量測方法

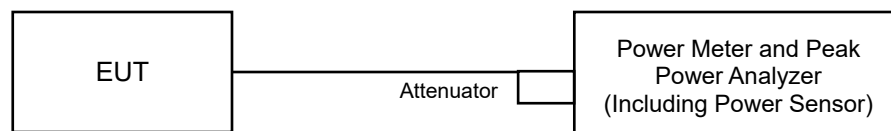
- 將待測物輸出經由衰減器接到功率計上。
- 設定待測物處於連續發射狀態。
- 計算其輸出功率峰值。

### 6.3 量測儀器

| Description & Manufacturer           | Model No. | Serial No.                       | Date of Calibration | Due Date of Calibration |
|--------------------------------------|-----------|----------------------------------|---------------------|-------------------------|
| USB Wideband Power Meter<br>KEYSIGHT | U2021XA   | MY55050005/MY55190007/MY55210005 | Jul. 17, 2018       | Jul. 16, 2019           |
|                                      |           |                                  | Jul. 15, 2019       | Jul. 14, 2020           |

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The measurement uncertainty is 1.393dB, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
3. Measurement Bandwidth of U2021XA is 160MHz greater than 6dB bandwidth of emission.

### 6.4 測試配置



## 6.5 量測結果

Test Mode A - AP43 (Internal antenna) + Eth6 Radio + POE

1TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 2                            | Chain 2                             |                   |             |
| 36    | 5180           | 90.573                             | 19.57                               | 30.00             | Pass        |
| 40    | 5200           | 143.880                            | 21.58                               | 30.00             | Pass        |
| 48    | 5240           | 60.117                             | 17.79                               | 30.00             | Pass        |
| 149   | 5745           | 146.555                            | 21.66                               | 30.00             | Pass        |
| 157   | 5785           | 143.880                            | 21.58                               | 30.00             | Pass        |
| 165   | 5825           | 147.571                            | 21.69                               | 30.00             | Pass        |

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 2                            | Chain 2                             |                   |             |
| 36    | 5180           | 64.269                             | 18.08                               | 30.00             | Pass        |
| 40    | 5200           | 145.211                            | 21.62                               | 30.00             | Pass        |
| 48    | 5240           | 69.663                             | 18.43                               | 30.00             | Pass        |
| 149   | 5745           | 145.211                            | 21.62                               | 30.00             | Pass        |
| 157   | 5785           | 146.893                            | 21.67                               | 30.00             | Pass        |
| 165   | 5825           | 146.218                            | 21.65                               | 30.00             | Pass        |

### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 2                            | Chain 2                             |                   |             |
| 38    | 5190           | 43.251                             | 16.36                               | 30.00             | Pass        |
| 46    | 5230           | 133.045                            | 21.24                               | 30.00             | Pass        |
| 151   | 5755           | 146.893                            | 21.67                               | 30.00             | Pass        |
| 159   | 5795           | 147.231                            | 21.68                               | 30.00             | Pass        |

## 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 2                            | Chain 2                             |                   |             |
| 42    | 5210           | 40.179                             | 16.04                               | 30.00             | Pass        |
| 155   | 5775           | 97.275                             | 19.88                               | 30.00             | Pass        |

## 2TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 2                       | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 17.33                         | 17.01   | 104.309                | 20.18                   | 30.00                   | Pass        |
| 40    | 5200           | 20.66                         | 20.22   | 221.609                | 23.46                   | 30.00                   | Pass        |
| 48    | 5240           | 17.79                         | 17.49   | 116.222                | 20.65                   | 30.00                   | Pass        |
| 149   | 5745           | 20.04                         | 20.39   | 210.321                | 23.23                   | 30.00                   | Pass        |
| 157   | 5785           | 20.13                         | 20.33   | 210.934                | 23.24                   | 30.00                   | Pass        |
| 165   | 5825           | 20.11                         | 20.42   | 212.719                | 23.28                   | 30.00                   | Pass        |

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 2                       | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 17.05                         | 16.52   | 95.574                 | 19.80                   | 30.00                   | Pass        |
| 40    | 5200           | 20.72                         | 20.26   | 224.202                | 23.51                   | 30.00                   | Pass        |
| 48    | 5240           | 18.43                         | 17.50   | 125.897                | 21.00                   | 30.00                   | Pass        |
| 149   | 5745           | 20.15                         | 20.34   | 211.657                | 23.26                   | 30.00                   | Pass        |
| 157   | 5785           | 20.12                         | 20.35   | 211.195                | 23.25                   | 30.00                   | Pass        |
| 165   | 5825           | 20.16                         | 20.29   | 210.658                | 23.24                   | 30.00                   | Pass        |

### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 2                       | Chain 3 |                        |                         |                         |             |
| 38    | 5190           | 15.91                         | 15.34   | 73.192                 | 18.64                   | 30.00                   | Pass        |
| 46    | 5230           | 19.11                         | 17.97   | 144.131                | 21.59                   | 30.00                   | Pass        |
| 151   | 5755           | 20.55                         | 20.14   | 216.777                | 23.36                   | 30.00                   | Pass        |
| 159   | 5795           | 20.63                         | 20.07   | 217.236                | 23.37                   | 30.00                   | Pass        |

### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 2                       | Chain 3 |                        |                         |                         |             |
| 42    | 5210           | 14.45                         | 14.66   | 57.103                 | 17.57                   | 30.00                   | Pass        |
| 155   | 5775           | 16.25                         | 16.22   | 84.049                 | 19.25                   | 30.00                   | Pass        |

## 2TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 2                       | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 17.05                         | 16.52   | 95.574                 | 19.80                   | 27.24                   | Pass        |
| 40    | 5200           | 20.72                         | 20.26   | 224.202                | 23.51                   | 27.24                   | Pass        |
| 48    | 5240           | 18.43                         | 17.50   | 125.897                | 21.00                   | 27.24                   | Pass        |
| 149   | 5745           | 20.15                         | 20.34   | 211.657                | 23.26                   | 27.24                   | Pass        |
| 157   | 5785           | 20.12                         | 20.35   | 211.195                | 23.25                   | 27.24                   | Pass        |
| 165   | 5825           | 20.16                         | 20.29   | 210.658                | 23.24                   | 27.24                   | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(8.76-6) = 27.24\text{dBm}$ .

### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 2                       | Chain 3 |                        |                         |                         |             |
| 38    | 5190           | 15.91                         | 15.34   | 73.192                 | 18.64                   | 27.24                   | Pass        |
| 46    | 5230           | 19.11                         | 17.97   | 144.131                | 21.59                   | 27.24                   | Pass        |
| 151   | 5755           | 20.55                         | 20.14   | 216.777                | 23.36                   | 27.24                   | Pass        |
| 159   | 5795           | 20.63                         | 20.07   | 217.236                | 23.37                   | 27.24                   | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(8.76-6) = 27.24\text{dBm}$ .

### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 2                       | Chain 3 |                        |                         |                         |             |
| 42    | 5210           | 14.45                         | 14.66   | 57.103                 | 17.57                   | 27.24                   | Pass        |
| 155   | 5775           | 16.25                         | 16.22   | 84.049                 | 19.25                   | 27.24                   | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(8.76-6) = 27.24\text{dBm}$ .

### 3TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 16.89                         | 16.30   | 17.02   | 141.873                | 21.52                   | 30.00                   | Pass        |
| 40    | 5200           | 18.73                         | 18.47   | 19.11   | 226.422                | 23.55                   | 30.00                   | Pass        |
| 48    | 5240           | 17.79                         | 17.49   | 18.18   | 181.988                | 22.60                   | 30.00                   | Pass        |
| 149   | 5745           | 20.04                         | 20.39   | 19.61   | 301.732                | 24.80                   | 30.00                   | Pass        |
| 157   | 5785           | 20.13                         | 20.33   | 19.54   | 300.884                | 24.78                   | 30.00                   | Pass        |
| 165   | 5825           | 19.79                         | 18.84   | 19.75   | 266.246                | 24.25                   | 30.00                   | Pass        |

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 16.88                         | 16.01   | 17.10   | 139.941                | 21.46                   | 30.00                   | Pass        |
| 40    | 5200           | 18.92                         | 18.51   | 18.90   | 226.566                | 23.55                   | 30.00                   | Pass        |
| 48    | 5240           | 18.43                         | 17.50   | 17.92   | 187.841                | 22.74                   | 30.00                   | Pass        |
| 149   | 5745           | 20.15                         | 20.34   | 19.63   | 303.490                | 24.82                   | 30.00                   | Pass        |
| 157   | 5785           | 20.12                         | 20.35   | 19.55   | 301.352                | 24.79                   | 30.00                   | Pass        |
| 165   | 5825           | 19.35                         | 19.39   | 20.96   | 297.733                | 24.74                   | 30.00                   | Pass        |

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 38    | 5190           | 14.92                         | 14.89   | 14.89   | 92.710                 | 19.67                   | 30.00                   | Pass        |
| 46    | 5230           | 18.99                         | 18.10   | 18.71   | 218.117                | 23.39                   | 30.00                   | Pass        |
| 151   | 5755           | 20.55                         | 20.14   | 19.33   | 302.481                | 24.81                   | 30.00                   | Pass        |
| 159   | 5795           | 19.25                         | 19.34   | 20.14   | 273.317                | 24.37                   | 30.00                   | Pass        |

### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 42    | 5210           | 14.38                         | 14.40   | 14.42   | 82.627                 | 19.17                   | 30.00                   | Pass        |
| 155   | 5775           | 15.32                         | 15.92   | 15.32   | 107.166                | 20.30                   | 30.00                   | Pass        |

### 3TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11ax (HE20)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 1                       | Chain 2 | Chain 3 |                  |                   |                   |             |
| 36    | 5180        | 16.88                         | 16.01   | 17.10   | 139.941          | 21.46             | 25.59             | Pass        |
| 40    | 5200        | 18.92                         | 18.51   | 18.90   | 226.566          | 23.55             | 25.59             | Pass        |
| 48    | 5240        | 18.43                         | 17.50   | 17.92   | 187.841          | 22.74             | 25.59             | Pass        |
| 149   | 5745        | 20.15                         | 20.34   | 19.63   | 303.490          | 24.82             | 25.59             | Pass        |
| 157   | 5785        | 20.12                         | 20.35   | 19.55   | 301.352          | 24.79             | 25.59             | Pass        |
| 165   | 5825        | 19.35                         | 19.39   | 20.96   | 297.733          | 24.74             | 25.59             | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density shall be reduced to  $30-(10.41-6) = 25.59\text{dBm}$ .

#### 802.11ax (HE40)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 1                       | Chain 2 | Chain 3 |                  |                   |                   |             |
| 38    | 5190        | 14.92                         | 14.89   | 14.89   | 92.710           | 19.67             | 25.59             | Pass        |
| 46    | 5230        | 18.99                         | 18.10   | 18.71   | 218.117          | 23.39             | 25.59             | Pass        |
| 151   | 5755        | 20.55                         | 20.14   | 19.33   | 302.481          | 24.81             | 25.59             | Pass        |
| 159   | 5795        | 19.25                         | 19.34   | 20.14   | 273.317          | 24.37             | 25.59             | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density shall be reduced to  $30-(10.41-6) = 25.59\text{dBm}$ .

#### 802.11ax (HE80)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 1                       | Chain 2 | Chain 3 |                  |                   |                   |             |
| 42    | 5210        | 14.38                         | 14.40   | 14.42   | 82.627           | 19.17             | 25.59             | Pass        |
| 155   | 5775        | 15.32                         | 15.92   | 15.32   | 107.166          | 20.30             | 25.59             | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density shall be reduced to  $30-(10.41-6) = 25.59\text{dBm}$ .

#### 4TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

#### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 15.86                         | 17.13   | 15.67   | 16.03   | 167.175                | 22.23                   | 30.00                   | Pass        |
| 40    | 5200           | 17.08                         | 18.31   | 17.30   | 17.42   | 227.725                | 23.57                   | 30.00                   | Pass        |
| 48    | 5240           | 17.11                         | 18.27   | 17.32   | 17.29   | 226.078                | 23.54                   | 30.00                   | Pass        |
| 149   | 5745           | 20.04                         | 20.39   | 19.61   | 19.32   | 387.239                | 25.88                   | 30.00                   | Pass        |
| 157   | 5785           | 20.13                         | 20.33   | 19.54   | 19.41   | 388.181                | 25.89                   | 30.00                   | Pass        |
| 165   | 5825           | 20.11                         | 20.42   | 19.68   | 19.38   | 392.312                | 25.94                   | 30.00                   | Pass        |

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 15.75                         | 16.60   | 15.14   | 15.66   | 152.765                | 21.84                   | 30.00                   | Pass        |
| 40    | 5200           | 17.02                         | 18.41   | 17.62   | 17.23   | 230.348                | 23.62                   | 30.00                   | Pass        |
| 48    | 5240           | 17.10                         | 18.37   | 17.49   | 17.26   | 229.309                | 23.60                   | 30.00                   | Pass        |
| 149   | 5745           | 20.15                         | 20.34   | 19.63   | 19.32   | 388.997                | 25.90                   | 30.00                   | Pass        |
| 157   | 5785           | 20.12                         | 20.35   | 19.55   | 19.36   | 387.650                | 25.88                   | 30.00                   | Pass        |
| 165   | 5825           | 20.16                         | 20.29   | 19.61   | 19.27   | 386.597                | 25.87                   | 30.00                   | Pass        |

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 38    | 5190           | 13.32                         | 14.98   | 13.06   | 13.43   | 95.214                 | 19.79                   | 30.00                   | Pass        |
| 46    | 5230           | 17.52                         | 18.72   | 18.59   | 17.65   | 261.454                | 24.17                   | 30.00                   | Pass        |
| 151   | 5755           | 20.55                         | 20.14   | 19.33   | 19.30   | 387.595                | 25.88                   | 30.00                   | Pass        |
| 159   | 5795           | 20.63                         | 20.07   | 19.51   | 19.33   | 392.271                | 25.94                   | 30.00                   | Pass        |

# 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 42    | 5210           | 13.41                         | 14.27   | 13.27   | 13.27   | 91.122                 | 19.60                   | 30.00                   | Pass        |
| 155   | 5775           | 14.29                         | 14.64   | 14.74   | 13.66   | 108.972                | 20.37                   | 30.00                   | Pass        |

#### 4TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

#### 802.11ax (HE20)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 36    | 5180        | 15.75                         | 16.60   | 15.14   | 15.66   | 152.765          | 21.84             | 24.55             | Pass        |
| 40    | 5200        | 17.02                         | 18.41   | 17.62   | 17.23   | 230.348          | 23.62             | 24.55             | Pass        |
| 48    | 5240        | 17.10                         | 18.37   | 17.49   | 17.26   | 229.309          | 23.60             | 24.55             | Pass        |
| 149   | 5745        | 17.93                         | 18.12   | 17.41   | 17.10   | 233.317          | 23.68             | 24.55             | Pass        |
| 157   | 5785        | 17.90                         | 18.13   | 17.33   | 17.14   | 232.509          | 23.66             | 24.55             | Pass        |
| 165   | 5825        | 17.94                         | 18.07   | 17.39   | 17.05   | 231.878          | 23.65             | 24.55             | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(11.45-6) = 24.55\text{dBm}$ .

#### 802.11ax (HE40)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 38    | 5190        | 13.32                         | 14.98   | 13.06   | 13.43   | 95.214           | 19.79             | 24.55             | Pass        |
| 46    | 5230        | 17.09                         | 18.29   | 18.16   | 17.22   | 236.808          | 23.74             | 24.55             | Pass        |
| 151   | 5755        | 18.33                         | 17.92   | 17.11   | 17.08   | 232.475          | 23.66             | 24.55             | Pass        |
| 159   | 5795        | 18.41                         | 17.85   | 17.29   | 17.11   | 235.281          | 23.72             | 24.55             | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(11.45-6) = 24.55\text{dBm}$ .

#### 802.11ax (HE80)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 42    | 5210        | 13.41                         | 14.27   | 13.27   | 13.27   | 91.122           | 19.60             | 24.55             | Pass        |
| 155   | 5775        | 14.29                         | 14.64   | 14.74   | 13.66   | 108.972          | 20.37             | 24.55             | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(11.45-6) = 24.55\text{dBm}$ .

# Test Mode C - AP43 (Internal antenna) + Eth7 Radio + POE

## 1TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 06 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

## 802.11a

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 36    | 5180           | 112.460                            | 20.51                               | 30.00             | Pass        |
| 40    | 5200           | 185.353                            | 22.68                               | 30.00             | Pass        |
| 48    | 5240           | 107.647                            | 20.32                               | 30.00             | Pass        |
| 149   | 5745           | 210.863                            | 23.24                               | 30.00             | Pass        |
| 157   | 5785           | 204.174                            | 23.10                               | 30.00             | Pass        |
| 165   | 5825           | 192.752                            | 22.85                               | 30.00             | Pass        |

## 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 36    | 5180           | 65.313                             | 18.15                               | 30.00             | Pass        |
| 40    | 5200           | 195.884                            | 22.92                               | 30.00             | Pass        |
| 48    | 5240           | 114.288                            | 20.58                               | 30.00             | Pass        |
| 149   | 5745           | 212.814                            | 23.28                               | 30.00             | Pass        |
| 157   | 5785           | 209.894                            | 23.22                               | 30.00             | Pass        |
| 165   | 5825           | 203.236                            | 23.08                               | 30.00             | Pass        |

## 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 38    | 5190           | 68.865                             | 18.38                               | 30.00             | Pass        |
| 46    | 5230           | 104.472                            | 20.19                               | 30.00             | Pass        |
| 151   | 5755           | 199.526                            | 23.00                               | 30.00             | Pass        |
| 159   | 5795           | 205.116                            | 23.12                               | 30.00             | Pass        |

## 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 42    | 5210           | 66.374                             | 18.22                               | 30.00             | Pass        |
| 155   | 5775           | 77.446                             | 18.89                               | 30.00             | Pass        |

## 2TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |                |
| 36    | 5180           | 18.40                         | 16.80   | 117.046                | 20.68                   | 30.00                   | Pass           |
| 40    | 5200           | 23.12                         | 21.47   | 345.397                | 25.38                   | 30.00                   | Pass           |
| 48    | 5240           | 20.32                         | 18.88   | 184.915                | 22.67                   | 30.00                   | Pass           |
| 149   | 5745           | 23.24                         | 21.35   | 347.321                | 25.41                   | 30.00                   | Pass           |
| 157   | 5785           | 23.10                         | 21.33   | 340.005                | 25.31                   | 30.00                   | Pass           |
| 165   | 5825           | 22.85                         | 21.20   | 324.578                | 25.11                   | 30.00                   | Pass           |

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |                |
| 36    | 5180           | 17.99                         | 16.23   | 104.927                | 20.21                   | 30.00                   | Pass           |
| 40    | 5200           | 22.10                         | 20.49   | 274.125                | 24.38                   | 30.00                   | Pass           |
| 48    | 5240           | 20.58                         | 18.91   | 192.092                | 22.84                   | 30.00                   | Pass           |
| 149   | 5745           | 23.28                         | 21.35   | 349.272                | 25.43                   | 30.00                   | Pass           |
| 157   | 5785           | 23.22                         | 21.30   | 344.790                | 25.38                   | 30.00                   | Pass           |
| 165   | 5825           | 23.08                         | 21.32   | 338.755                | 25.30                   | 30.00                   | Pass           |

### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |                |
| 38    | 5190           | 16.14                         | 14.75   | 70.969                 | 18.51                   | 30.00                   | Pass           |
| 46    | 5230           | 19.73                         | 18.55   | 165.586                | 22.19                   | 30.00                   | Pass           |
| 151   | 5755           | 23.00                         | 21.36   | 336.299                | 25.27                   | 30.00                   | Pass           |
| 159   | 5795           | 23.12                         | 21.23   | 337.855                | 25.29                   | 30.00                   | Pass           |

## 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |                |
| 42    | 5210           | 16.07                         | 14.77   | 70.450                 | 18.48                   | 30.00                   | Pass           |
| 155   | 5775           | 18.98                         | 17.05   | 129.767                | 21.13                   | 30.00                   | Pass           |

# Test Mode E - AP43 (Internal antenna) + Eth8 Radio + POE

## 1TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

## 802.11a

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 1                            | Chain 1                             |                   |             |
| 149   | 5745           | 142.889                            | 21.55                               | 30.00             | Pass        |
| 157   | 5785           | 142.233                            | 21.53                               | 30.00             | Pass        |
| 165   | 5825           | 141.254                            | 21.50                               | 30.00             | Pass        |

## 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 1                            | Chain 1                             |                   |             |
| 149   | 5745           | 142.561                            | 21.54                               | 30.00             | Pass        |
| 157   | 5785           | 141.579                            | 21.51                               | 30.00             | Pass        |
| 165   | 5825           | 141.906                            | 21.52                               | 30.00             | Pass        |

## 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 1                            | Chain 1                             |                   |             |
| 151   | 5755           | 141.906                            | 21.52                               | 30.00             | Pass        |
| 159   | 5795           | 146.555                            | 21.66                               | 30.00             | Pass        |

## 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 1                            | Chain 1                             |                   |             |
| 155   | 5775           | 138.676                            | 21.42                               | 30.00             | Pass        |

## 2TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 149   | 5745           | 21.49                         | 22.68   | 326.282                | 25.14                   | 30.00                   | Pass        |
| 157   | 5785           | 21.56                         | 22.70   | 329.428                | 25.18                   | 30.00                   | Pass        |
| 165   | 5825           | 21.54                         | 22.75   | 330.926                | 25.20                   | 30.00                   | Pass        |

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 149   | 5745           | 21.50                         | 22.71   | 327.892                | 25.16                   | 30.00                   | Pass        |
| 157   | 5785           | 21.54                         | 22.76   | 331.360                | 25.20                   | 30.00                   | Pass        |
| 165   | 5825           | 21.58                         | 22.79   | 333.988                | 25.24                   | 30.00                   | Pass        |

### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 151   | 5755           | 21.54                         | 22.75   | 330.926                | 25.20                   | 30.00                   | Pass        |
| 159   | 5795           | 21.62                         | 22.94   | 342.000                | 25.34                   | 30.00                   | Pass        |

### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 155   | 5775           | 19.45                         | 20.35   | 196.498                | 22.93                   | 30.00                   | Pass        |

## 2TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 149   | 5745           | 21.50                         | 22.71   | 327.892                | 25.16                   | 27.68                   | Pass        |
| 157   | 5785           | 21.54                         | 22.76   | 331.360                | 25.20                   | 27.68                   | Pass        |
| 165   | 5825           | 21.58                         | 22.79   | 333.988                | 25.24                   | 27.68                   | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.32\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(8.32-6) = 27.68\text{dBm}$ .

### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 151   | 5755           | 21.54                         | 22.75   | 330.926                | 25.20                   | 27.68                   | Pass        |
| 159   | 5795           | 21.62                         | 22.94   | 342.000                | 25.34                   | 27.68                   | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.32\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(8.32-6) = 27.68\text{dBm}$ .

### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 155   | 5775           | 19.45                         | 20.35   | 196.498                | 22.93                   | 27.68                   | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.32\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(8.32-6) = 27.68\text{dBm}$ .

### 3TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 149   | 5745           | 21.52                         | 22.74   | 22.56   | 510.140                | 27.08                   | 30.00                   | Pass        |
| 157   | 5785           | 21.55                         | 22.74   | 22.56   | 511.123                | 27.09                   | 30.00                   | Pass        |
| 165   | 5825           | 21.54                         | 22.77   | 22.58   | 512.929                | 27.10                   | 30.00                   | Pass        |

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 149   | 5745           | 21.50                         | 22.70   | 22.60   | 509.433                | 27.07                   | 30.00                   | Pass        |
| 157   | 5785           | 21.55                         | 22.73   | 22.57   | 511.105                | 27.09                   | 30.00                   | Pass        |
| 165   | 5825           | 21.59                         | 22.74   | 22.49   | 509.563                | 27.07                   | 30.00                   | Pass        |

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 151   | 5755           | 21.53                         | 22.77   | 22.51   | 509.705                | 27.07                   | 30.00                   | Pass        |
| 159   | 5795           | 21.61                         | 22.81   | 22.55   | 515.749                | 27.12                   | 30.00                   | Pass        |

#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 155   | 5775           | 17.81                         | 18.66   | 17.92   | 195.790                | 22.92                   | 30.00                   | Pass        |

### 3TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 149   | 5745           | 19.96                         | 21.05   | 21.08   | 354.666                | 25.50                   | 26.25                   | Pass        |
| 157   | 5785           | 20.03                         | 20.10   | 21.07   | 330.960                | 25.20                   | 26.25                   | Pass        |
| 165   | 5825           | 20.05                         | 21.04   | 20.98   | 353.529                | 25.48                   | 26.25                   | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 9.75\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(9.75-6) = 26.25\text{dBm}$ .

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 151   | 5755           | 20.01                         | 21.06   | 20.97   | 352.901                | 25.48                   | 26.25                   | Pass        |
| 159   | 5795           | 20.11                         | 21.03   | 21.04   | 356.387                | 25.52                   | 26.25                   | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 9.75\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(9.75-6) = 26.25\text{dBm}$ .

#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                         |                         |             |
| 155   | 5775           | 17.81                         | 18.66   | 17.92   | 195.790                | 22.92                   | 26.25                   | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 9.75\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(9.75-6) = 26.25\text{dBm}$ .

#### 4TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

#### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 149   | 5745           | 21.52                         | 22.64   | 22.73   | 22.38   | 686.041                | 28.36                   | 30.00                   | Pass        |
| 157   | 5785           | 21.34                         | 22.24   | 22.45   | 22.33   | 650.432                | 28.13                   | 30.00                   | Pass        |
| 165   | 5825           | 21.15                         | 21.98   | 22.44   | 22.18   | 628.662                | 27.98                   | 30.00                   | Pass        |

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 149   | 5745           | 21.72                         | 22.75   | 22.92   | 22.53   | 711.904                | 28.52                   | 30.00                   | Pass        |
| 157   | 5785           | 21.46                         | 22.62   | 22.55   | 22.15   | 666.715                | 28.24                   | 30.00                   | Pass        |
| 165   | 5825           | 21.23                         | 22.42   | 22.30   | 21.83   | 629.550                | 27.99                   | 30.00                   | Pass        |

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 151   | 5755           | 20.50                         | 21.16   | 21.56   | 21.01   | 512.221                | 27.09                   | 30.00                   | Pass        |
| 159   | 5795           | 21.43                         | 22.29   | 22.49   | 22.11   | 648.403                | 28.12                   | 30.00                   | Pass        |

#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 155   | 5775           | 16.64                         | 17.37   | 17.06   | 17.23   | 204.369                | 23.10                   | 30.00                   | Pass        |

#### 4TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

#### 802.11ax (HE20)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 149   | 5745        | 17.73                         | 18.76   | 18.93   | 18.54   | 284.068          | 24.53             | 25.04             | Pass        |
| 157   | 5785        | 17.70                         | 18.86   | 18.79   | 18.39   | 280.504          | 24.48             | 25.04             | Pass        |
| 165   | 5825        | 17.47                         | 18.66   | 18.54   | 18.07   | 264.869          | 24.23             | 25.04             | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(10.96-6) = 25.04\text{dBm}$ .

#### 802.11ax (HE40)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 151   | 5755        | 17.73                         | 18.39   | 18.79   | 18.24   | 270.681          | 24.32             | 25.04             | Pass        |
| 159   | 5795        | 17.67                         | 18.53   | 18.73   | 18.35   | 272.800          | 24.36             | 25.04             | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(10.96-6) = 25.04\text{dBm}$ .

#### 802.11ax (HE80)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 155   | 5775        | 16.64                         | 17.37   | 17.06   | 17.23   | 204.369          | 23.10             | 25.04             | Pass        |

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30-(10.96-6) = 25.04\text{dBm}$ .

Test Mode G - AP43E (External antenna - PN: ATS-OO-245-46-4RPSP-36) + Eth6 Radio + POE

1TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

802.11a

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 1                            | Chain 1                             |                   |             |
| 36    | 5180           | 90.573                             | 19.57                               | 30.00             | Pass        |
| 40    | 5200           | 105.439                            | 20.23                               | 30.00             | Pass        |
| 48    | 5240           | 60.117                             | 17.79                               | 30.00             | Pass        |
| 149   | 5745           | 146.555                            | 21.66                               | 30.00             | Pass        |
| 157   | 5785           | 143.880                            | 21.58                               | 30.00             | Pass        |
| 165   | 5825           | 147.571                            | 21.69                               | 30.00             | Pass        |

802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 1                            | Chain 1                             |                   |             |
| 36    | 5180           | 64.269                             | 18.08                               | 30.00             | Pass        |
| 40    | 5200           | 145.211                            | 21.62                               | 30.00             | Pass        |
| 48    | 5240           | 69.663                             | 18.43                               | 30.00             | Pass        |
| 149   | 5745           | 145.211                            | 21.62                               | 30.00             | Pass        |
| 157   | 5785           | 146.893                            | 21.67                               | 30.00             | Pass        |
| 165   | 5825           | 146.218                            | 21.65                               | 30.00             | Pass        |

802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 1                            | Chain 1                             |                   |             |
| 38    | 5190           | 43.251                             | 16.36                               | 30.00             | Pass        |
| 46    | 5230           | 133.045                            | 21.24                               | 30.00             | Pass        |
| 151   | 5755           | 146.893                            | 21.67                               | 30.00             | Pass        |
| 159   | 5795           | 147.231                            | 21.68                               | 30.00             | Pass        |

# 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 1                            | Chain 1                             |                   |             |
| 42    | 5210           | 40.179                             | 16.04                               | 30.00             | Pass        |
| 155   | 5775           | 97.275                             | 19.88                               | 30.00             | Pass        |

## 2TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 36    | 5180           | 17.33                         | 17.01   | 104.309                | 20.18                   | 30.00                   | Pass        |
| 40    | 5200           | 20.66                         | 20.22   | 221.609                | 23.46                   | 30.00                   | Pass        |
| 48    | 5240           | 17.79                         | 17.49   | 116.222                | 20.65                   | 30.00                   | Pass        |
| 149   | 5745           | 20.04                         | 20.39   | 210.321                | 23.23                   | 30.00                   | Pass        |
| 157   | 5785           | 20.13                         | 20.33   | 210.934                | 23.24                   | 30.00                   | Pass        |
| 165   | 5825           | 20.11                         | 20.42   | 212.719                | 23.28                   | 30.00                   | Pass        |

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 36    | 5180           | 17.17                         | 18.32   | 120.039                | 20.79                   | 30.00                   | Pass        |
| 40    | 5200           | 20.72                         | 20.26   | 224.202                | 23.51                   | 30.00                   | Pass        |
| 48    | 5240           | 18.43                         | 17.50   | 125.897                | 21.00                   | 30.00                   | Pass        |
| 149   | 5745           | 20.15                         | 20.34   | 211.657                | 23.26                   | 30.00                   | Pass        |
| 157   | 5785           | 20.12                         | 20.35   | 211.195                | 23.25                   | 30.00                   | Pass        |
| 165   | 5825           | 20.16                         | 20.29   | 210.658                | 23.24                   | 30.00                   | Pass        |

### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 38    | 5190           | 15.66                         | 16.64   | 82.945                 | 19.19                   | 30.00                   | Pass        |
| 46    | 5230           | 19.11                         | 17.97   | 144.131                | 21.59                   | 30.00                   | Pass        |
| 151   | 5755           | 20.55                         | 20.14   | 216.777                | 23.36                   | 30.00                   | Pass        |
| 159   | 5795           | 20.63                         | 20.07   | 217.236                | 23.37                   | 30.00                   | Pass        |

### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 1                       | Chain 2 |                        |                         |                         |             |
| 42    | 5210           | 14.45                         | 14.66   | 57.103                 | 17.57                   | 30.00                   | Pass        |
| 155   | 5775           | 16.25                         | 16.22   | 84.049                 | 19.25                   | 30.00                   | Pass        |

## 2TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11ax (HE20)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 1                       | Chain 2 |                  |                   |                   |             |
| 36    | 5180        | 17.17                         | 18.32   | 120.039          | 20.79             | 26.99             | Pass        |
| 40    | 5200        | 20.72                         | 20.26   | 224.202          | 23.51             | 26.99             | Pass        |
| 48    | 5240        | 18.43                         | 17.50   | 125.897          | 21.00             | 26.99             | Pass        |
| 149   | 5745        | 15.66                         | 16.64   | 82.945           | 19.19             | 26.99             | Pass        |
| 157   | 5785        | 19.11                         | 17.97   | 144.131          | 21.59             | 26.99             | Pass        |
| 165   | 5825        | 14.45                         | 14.66   | 57.103           | 17.57             | 26.99             | Pass        |

Note: Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power limit shall be reduced to 30-(9.01-6) = 26.99dBm.

### 802.11ax (HE40)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 1                       | Chain 2 |                  |                   |                   |             |
| 38    | 5190        | 15.66                         | 16.64   | 82.945           | 19.19             | 26.99             | Pass        |
| 46    | 5230        | 19.11                         | 17.97   | 144.131          | 21.59             | 26.99             | Pass        |
| 151   | 5755        | 20.55                         | 20.14   | 216.777          | 23.36             | 26.99             | Pass        |
| 159   | 5795        | 20.63                         | 20.07   | 217.236          | 23.37             | 26.99             | Pass        |

Note: Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power limit shall be reduced to 30-(9.01-6) = 26.99dBm.

### 802.11ax (HE80)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 1                       | Chain 2 |                  |                   |                   |             |
| 42    | 5210        | 14.45                         | 14.66   | 57.103           | 17.57             | 26.99             | Pass        |
| 155   | 5775        | 16.25                         | 16.22   | 84.049           | 19.25             | 26.99             | Pass        |

Note: Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power limit shall be reduced to 30-(9.01-6) = 26.99dBm.

### 3TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                         |                         |             |
| 36    | 5180           | 16.89                         | 16.30   | 17.02   | 141.873                | 21.52                   | 30.00                   | Pass        |
| 40    | 5200           | 18.73                         | 18.47   | 19.11   | 226.422                | 23.55                   | 30.00                   | Pass        |
| 48    | 5240           | 17.79                         | 17.49   | 18.18   | 181.988                | 22.60                   | 30.00                   | Pass        |
| 149   | 5745           | 20.04                         | 20.39   | 19.61   | 301.732                | 24.80                   | 30.00                   | Pass        |
| 157   | 5785           | 20.13                         | 20.33   | 19.54   | 300.884                | 24.78                   | 30.00                   | Pass        |
| 165   | 5825           | 19.79                         | 18.84   | 19.75   | 266.246                | 24.25                   | 30.00                   | Pass        |

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                         |                         |             |
| 36    | 5180           | 16.35                         | 17.73   | 16.24   | 144.518                | 21.60                   | 30.00                   | Pass        |
| 40    | 5200           | 18.92                         | 18.51   | 18.90   | 226.566                | 23.55                   | 30.00                   | Pass        |
| 48    | 5240           | 18.43                         | 17.50   | 17.92   | 187.841                | 22.74                   | 30.00                   | Pass        |
| 149   | 5745           | 20.15                         | 20.34   | 19.63   | 303.490                | 24.82                   | 30.00                   | Pass        |
| 157   | 5785           | 20.12                         | 20.35   | 19.55   | 301.352                | 24.79                   | 30.00                   | Pass        |
| 165   | 5825           | 19.35                         | 19.39   | 20.96   | 297.733                | 24.74                   | 30.00                   | Pass        |

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                         |                         |             |
| 38    | 5190           | 14.23                         | 15.69   | 14.35   | 90.780                 | 19.58                   | 30.00                   | Pass        |
| 46    | 5230           | 18.99                         | 18.10   | 18.71   | 218.117                | 23.39                   | 30.00                   | Pass        |
| 151   | 5755           | 20.55                         | 20.14   | 19.33   | 302.481                | 24.81                   | 30.00                   | Pass        |
| 159   | 5795           | 19.25                         | 19.34   | 20.14   | 273.317                | 24.37                   | 30.00                   | Pass        |

## 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                         |                         |             |
| 42    | 5210           | 14.38                         | 14.40   | 14.42   | 82.627                 | 19.17                   | 30.00                   | Pass        |
| 155   | 5775           | 15.32                         | 15.92   | 15.32   | 107.166                | 20.30                   | 30.00                   | Pass        |

### 3TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11ax (HE20)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 |                  |                   |                   |             |
| 36    | 5180        | 16.35                         | 17.73   | 16.24   | 144.518          | 21.60             | 25.23             | Pass        |
| 40    | 5200        | 18.92                         | 18.51   | 18.90   | 226.566          | 23.55             | 25.23             | Pass        |
| 48    | 5240        | 18.43                         | 17.50   | 17.92   | 187.841          | 22.74             | 25.23             | Pass        |
| 149   | 5745        | 20.15                         | 20.34   | 19.63   | 303.490          | 24.82             | 25.23             | Pass        |
| 157   | 5785        | 20.12                         | 20.35   | 19.55   | 301.352          | 24.79             | 25.23             | Pass        |
| 165   | 5825        | 19.35                         | 19.39   | 20.96   | 297.733          | 24.74             | 25.23             | Pass        |

Note: Directional gain = 6dBi + 10log(3) = 10.77dBi > 6dBi, so the power limit shall be reduced to 30-(10.77-6) = 25.23dBm.

#### 802.11ax (HE40)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 |                  |                   |                   |             |
| 38    | 5190        | 14.23                         | 15.69   | 14.35   | 90.780           | 19.58             | 25.23             | Pass        |
| 46    | 5230        | 18.99                         | 18.10   | 18.71   | 218.117          | 23.39             | 25.23             | Pass        |
| 151   | 5755        | 20.55                         | 20.14   | 19.33   | 302.481          | 24.81             | 25.23             | Pass        |
| 159   | 5795        | 19.25                         | 19.34   | 20.14   | 273.317          | 24.37             | 25.23             | Pass        |

Note: Directional gain = 6dBi + 10log(3) = 10.77dBi > 6dBi, so the power limit shall be reduced to 30-(10.77-6) = 25.23dBm.

#### 802.11ax (HE80)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 |                  |                   |                   |             |
| 42    | 5210        | 14.38                         | 14.40   | 14.42   | 82.627           | 19.17             | 25.23             | Pass        |
| 155   | 5775        | 15.32                         | 15.92   | 15.32   | 107.166          | 20.30             | 25.23             | Pass        |

Note: Directional gain = 6dBi + 10log(3) = 10.77dBi > 6dBi, so the power limit shall be reduced to 30-(10.77-6) = 25.23dBm.

#### 4TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

#### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 15.86                         | 17.13   | 15.67   | 16.03   | 167.175                | 22.23                   | 30.00                   | Pass        |
| 40    | 5200           | 17.08                         | 18.31   | 17.30   | 17.42   | 227.725                | 23.57                   | 30.00                   | Pass        |
| 48    | 5240           | 17.11                         | 18.27   | 17.32   | 17.29   | 226.078                | 23.54                   | 30.00                   | Pass        |
| 149   | 5745           | 20.04                         | 20.39   | 19.61   | 19.32   | 387.239                | 25.88                   | 30.00                   | Pass        |
| 157   | 5785           | 20.13                         | 20.33   | 19.54   | 19.41   | 388.181                | 25.89                   | 30.00                   | Pass        |
| 165   | 5825           | 20.11                         | 20.42   | 19.68   | 19.38   | 392.312                | 25.94                   | 30.00                   | Pass        |

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 15.75                         | 16.60   | 15.14   | 15.66   | 152.765                | 21.84                   | 30.00                   | Pass        |
| 40    | 5200           | 17.02                         | 18.41   | 17.62   | 17.23   | 230.348                | 23.62                   | 30.00                   | Pass        |
| 48    | 5240           | 17.10                         | 18.37   | 17.49   | 17.26   | 229.309                | 23.60                   | 30.00                   | Pass        |
| 149   | 5745           | 20.15                         | 20.34   | 19.63   | 19.32   | 388.997                | 25.90                   | 30.00                   | Pass        |
| 157   | 5785           | 20.12                         | 20.35   | 19.55   | 19.36   | 387.650                | 25.88                   | 30.00                   | Pass        |
| 165   | 5825           | 20.16                         | 20.29   | 19.61   | 19.27   | 386.597                | 25.87                   | 30.00                   | Pass        |

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 38    | 5190           | 13.32                         | 14.98   | 13.06   | 13.43   | 95.214                 | 19.79                   | 30.00                   | Pass        |
| 46    | 5230           | 17.52                         | 18.72   | 18.59   | 17.65   | 261.454                | 24.17                   | 30.00                   | Pass        |
| 151   | 5755           | 20.55                         | 20.14   | 19.33   | 19.30   | 387.595                | 25.88                   | 30.00                   | Pass        |
| 159   | 5795           | 20.63                         | 20.07   | 19.51   | 19.33   | 392.271                | 25.94                   | 30.00                   | Pass        |

### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 42    | 5210           | 13.41                         | 14.27   | 13.27   | 13.27   | 91.122                 | 19.60                   | 30.00                   | Pass        |
| 155   | 5775           | 14.29                         | 14.64   | 14.74   | 13.66   | 108.972                | 20.37                   | 30.00                   | Pass        |

#### 4TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

#### 802.11ax (HE20)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 36    | 5180        | 15.75                         | 16.60   | 15.14   | 15.66   | 152.765          | 21.84             | 23.98             | Pass        |
| 40    | 5200        | 17.02                         | 18.41   | 17.62   | 17.23   | 230.348          | 23.62             | 23.98             | Pass        |
| 48    | 5240        | 17.10                         | 18.37   | 17.49   | 17.26   | 229.309          | 23.60             | 23.98             | Pass        |
| 149   | 5745        | 17.93                         | 18.12   | 17.41   | 17.10   | 233.317          | 23.68             | 23.98             | Pass        |
| 157   | 5785        | 17.90                         | 18.13   | 17.33   | 17.14   | 232.509          | 23.66             | 23.98             | Pass        |
| 165   | 5825        | 17.94                         | 18.07   | 17.39   | 17.05   | 231.878          | 23.65             | 23.98             | Pass        |

Note: Directional gain = 6dBi + 10log(4) = 12.02dBi > 6dBi, so the power limit shall be reduced to 30-(12.02-6) = 23.98dBm.

#### 802.11ax (HE40)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 38    | 5190        | 13.32                         | 14.98   | 13.06   | 13.43   | 95.214           | 19.79             | 23.98             | Pass        |
| 46    | 5230        | 17.09                         | 18.29   | 18.16   | 17.22   | 236.808          | 23.74             | 23.98             | Pass        |
| 151   | 5755        | 18.33                         | 17.92   | 17.11   | 17.08   | 232.475          | 23.66             | 23.98             | Pass        |
| 159   | 5795        | 18.41                         | 17.85   | 17.29   | 17.11   | 235.281          | 23.72             | 23.98             | Pass        |

Note: Directional gain = 6dBi + 10log(4) = 12.02dBi > 6dBi, so the power limit shall be reduced to 30-(12.02-6) = 23.98dBm.

#### 802.11ax (HE80)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 42    | 5210        | 13.41                         | 14.27   | 13.27   | 13.27   | 91.122           | 19.60             | 23.98             | Pass        |
| 155   | 5775        | 14.29                         | 14.64   | 14.74   | 13.66   | 108.972          | 20.37             | 23.98             | Pass        |

Note: Directional gain = 6dBi + 10log(4) = 12.02dBi > 6dBi, so the power limit shall be reduced to 30-(12.02-6) = 23.98dBm.

Test Mode I - AP43E (External antenna - PN: ATS-OO-245-46-4RPSP-36) + Eth7 Radio + POE

1TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

802.11a

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 36    | 5180           | 112.460                            | 20.51                               | 30.00             | Pass        |
| 40    | 5200           | 185.353                            | 22.68                               | 30.00             | Pass        |
| 48    | 5240           | 107.647                            | 20.32                               | 30.00             | Pass        |
| 149   | 5745           | 210.863                            | 23.24                               | 30.00             | Pass        |
| 157   | 5785           | 204.174                            | 23.10                               | 30.00             | Pass        |
| 165   | 5825           | 192.752                            | 22.85                               | 30.00             | Pass        |

802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 36    | 5180           | 65.313                             | 18.15                               | 30.00             | Pass        |
| 40    | 5200           | 195.884                            | 22.92                               | 30.00             | Pass        |
| 48    | 5240           | 114.288                            | 20.58                               | 30.00             | Pass        |
| 149   | 5745           | 212.814                            | 23.28                               | 30.00             | Pass        |
| 157   | 5785           | 209.894                            | 23.22                               | 30.00             | Pass        |
| 165   | 5825           | 203.236                            | 23.08                               | 30.00             | Pass        |

802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 38    | 5190           | 68.865                             | 18.38                               | 30.00             | Pass        |
| 46    | 5230           | 104.472                            | 20.19                               | 30.00             | Pass        |
| 151   | 5755           | 199.526                            | 23.00                               | 30.00             | Pass        |
| 159   | 5795           | 205.116                            | 23.12                               | 30.00             | Pass        |

## 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 42    | 5210           | 66.374                             | 18.22                               | 30.00             | Pass        |
| 155   | 5775           | 77.446                             | 18.89                               | 30.00             | Pass        |

## 2TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |                |
| 36    | 5180           | 18.40                         | 16.80   | 117.046                | 20.68                   | 30.00                   | Pass           |
| 40    | 5200           | 23.12                         | 21.47   | 345.397                | 25.38                   | 30.00                   | Pass           |
| 48    | 5240           | 20.32                         | 18.88   | 184.915                | 22.67                   | 30.00                   | Pass           |
| 149   | 5745           | 23.24                         | 21.35   | 347.321                | 25.41                   | 30.00                   | Pass           |
| 157   | 5785           | 23.10                         | 21.33   | 340.005                | 25.31                   | 30.00                   | Pass           |
| 165   | 5825           | 22.85                         | 21.20   | 324.578                | 25.11                   | 30.00                   | Pass           |

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |                |
| 36    | 5180           | 17.99                         | 16.23   | 104.927                | 20.21                   | 30.00                   | Pass           |
| 40    | 5200           | 22.10                         | 20.49   | 274.125                | 24.38                   | 30.00                   | Pass           |
| 48    | 5240           | 20.58                         | 18.91   | 192.092                | 22.84                   | 30.00                   | Pass           |
| 149   | 5745           | 23.28                         | 21.35   | 349.272                | 25.43                   | 30.00                   | Pass           |
| 157   | 5785           | 23.22                         | 21.30   | 344.790                | 25.38                   | 30.00                   | Pass           |
| 165   | 5825           | 23.08                         | 21.32   | 338.755                | 25.30                   | 30.00                   | Pass           |

### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |                |
| 38    | 5190           | 16.14                         | 14.75   | 70.969                 | 18.51                   | 30.00                   | Pass           |
| 46    | 5230           | 19.73                         | 18.55   | 165.586                | 22.19                   | 30.00                   | Pass           |
| 151   | 5755           | 23.00                         | 21.36   | 336.299                | 25.27                   | 30.00                   | Pass           |
| 159   | 5795           | 23.12                         | 21.23   | 337.855                | 25.29                   | 30.00                   | Pass           |

## 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |                |
| 42    | 5210           | 16.07                         | 14.77   | 70.450                 | 18.48                   | 30.00                   | Pass           |
| 155   | 5775           | 18.98                         | 17.05   | 129.767                | 21.13                   | 30.00                   | Pass           |

Test Mode K - AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth6 Radio + POE

1TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

802.11a

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 36    | 5180           | 81.283                             | 19.10                               | 26.00             | Pass        |
| 40    | 5200           | 207.014                            | 23.16                               | 26.00             | Pass        |
| 48    | 5240           | 51.642                             | 17.13                               | 26.00             | Pass        |
| 149   | 5745           | 104.472                            | 20.19                               | 26.00             | Pass        |
| 157   | 5785           | 101.158                            | 20.05                               | 26.00             | Pass        |
| 165   | 5825           | 101.859                            | 20.08                               | 26.00             | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 36    | 5180           | 57.677                             | 17.61                               | 26.00             | Pass        |
| 40    | 5200           | 96.605                             | 19.85                               | 26.00             | Pass        |
| 48    | 5240           | 54.200                             | 17.34                               | 26.00             | Pass        |
| 149   | 5745           | 105.682                            | 20.24                               | 26.00             | Pass        |
| 157   | 5785           | 107.399                            | 20.31                               | 26.00             | Pass        |
| 165   | 5825           | 100.925                            | 20.04                               | 26.00             | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 38    | 5190           | 33.574                             | 15.26                               | 26.00             | Pass        |
| 46    | 5230           | 78.705                             | 18.96                               | 26.00             | Pass        |
| 151   | 5755           | 102.329                            | 20.10                               | 26.00             | Pass        |
| 159   | 5795           | 103.276                            | 20.14                               | 26.00             | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 42    | 5210           | 34.514                             | 15.38                               | 26.00             | Pass        |
| 155   | 5775           | 84.14                              | 19.25                               | 26.00             | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

## 2TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |             |
| 36    | 5180           | 17.50                         | 18.33   | 124.311                | 20.95                   | 26.00                   | Pass        |
| 40    | 5200           | 21.03                         | 19.51   | 216.096                | 23.35                   | 26.00                   | Pass        |
| 48    | 5240           | 17.13                         | 17.62   | 109.452                | 20.39                   | 26.00                   | Pass        |
| 149   | 5745           | 20.24                         | 20.35   | 214.075                | 23.31                   | 26.00                   | Pass        |
| 157   | 5785           | 20.10                         | 20.33   | 210.224                | 23.23                   | 26.00                   | Pass        |
| 165   | 5825           | 20.05                         | 20.20   | 205.871                | 23.14                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |             |
| 36    | 5180           | 16.56                         | 17.45   | 100.880                | 20.04                   | 26.00                   | Pass        |
| 40    | 5200           | 19.79                         | 20.03   | 195.973                | 22.92                   | 26.00                   | Pass        |
| 48    | 5240           | 17.34                         | 17.57   | 111.348                | 20.47                   | 26.00                   | Pass        |
| 149   | 5745           | 20.28                         | 20.35   | 215.053                | 23.33                   | 26.00                   | Pass        |
| 157   | 5785           | 20.22                         | 20.30   | 212.348                | 23.27                   | 26.00                   | Pass        |
| 165   | 5825           | 20.08                         | 20.32   | 209.506                | 23.21                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |             |
| 38    | 5190           | 14.81                         | 16.22   | 72.148                 | 18.58                   | 26.00                   | Pass        |
| 46    | 5230           | 18.96                         | 19.75   | 173.111                | 22.38                   | 26.00                   | Pass        |
| 151   | 5755           | 20.00                         | 20.36   | 208.643                | 23.19                   | 26.00                   | Pass        |
| 159   | 5795           | 20.12                         | 20.23   | 208.241                | 23.19                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |             |
| 42    | 5210           | 14.71                         | 15.98   | 69.208                 | 18.40                   | 26.00                   | Pass        |
| 155   | 5775           | 19.13                         | 19.59   | 172.837                | 22.38                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to  $30 - (10 - 6) = 26.00\text{dBm}$ .

## 2TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11ax (HE20)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 |                  |                   |                   |             |
| 36    | 5180        | 16.56                         | 17.45   | 100.880          | 20.04             | 22.99             | Pass        |
| 40    | 5200        | 19.79                         | 20.03   | 195.973          | 22.92             | 22.99             | Pass        |
| 48    | 5240        | 17.34                         | 17.57   | 111.348          | 20.47             | 22.99             | Pass        |
| 149   | 5745        | 19.83                         | 19.84   | 192.544          | 22.85             | 22.99             | Pass        |
| 157   | 5785        | 19.66                         | 19.88   | 189.745          | 22.78             | 22.99             | Pass        |
| 165   | 5825        | 19.61                         | 19.77   | 186.253          | 22.70             | 22.99             | Pass        |

Note: Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power limit shall be reduced to 30-(13.01-6) = 22.99dBm.

### 802.11ax (HE40)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 |                  |                   |                   |             |
| 38    | 5190        | 14.81                         | 16.22   | 72.148           | 18.58             | 22.99             | Pass        |
| 46    | 5230        | 18.96                         | 19.75   | 173.111          | 22.38             | 22.99             | Pass        |
| 151   | 5755        | 19.42                         | 19.83   | 183.659          | 22.64             | 22.99             | Pass        |
| 159   | 5795        | 19.61                         | 19.81   | 187.130          | 22.72             | 22.99             | Pass        |

Note: Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power limit shall be reduced to 30-(13.01-6) = 22.99dBm.

### 802.11ax (HE80)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 |                  |                   |                   |             |
| 42    | 5210        | 14.71                         | 15.98   | 69.208           | 18.40             | 22.99             | Pass        |
| 155   | 5775        | 19.13                         | 19.59   | 172.837          | 22.38             | 22.99             | Pass        |

Note: Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power limit shall be reduced to 30-(13.01-6) = 22.99dBm.

### 3TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                         |                         |             |
| 36    | 5180           | 16.53                         | 17.85   | 16.79   | 153.685                | 21.87                   | 26.00                   | Pass        |
| 40    | 5200           | 15.56                         | 16.96   | 15.84   | 124.005                | 20.93                   | 26.00                   | Pass        |
| 48    | 5240           | 15.58                         | 16.61   | 15.92   | 121.039                | 20.83                   | 26.00                   | Pass        |
| 149   | 5745           | 20.17                         | 20.55   | 20.51   | 329.953                | 25.18                   | 26.00                   | Pass        |
| 157   | 5785           | 20.03                         | 20.45   | 20.91   | 334.920                | 25.25                   | 26.00                   | Pass        |
| 165   | 5825           | 20.05                         | 20.22   | 20.83   | 327.414                | 25.15                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                         |                         |             |
| 36    | 5180           | 15.55                         | 17.11   | 16.08   | 127.847                | 21.07                   | 26.00                   | Pass        |
| 40    | 5200           | 15.48                         | 16.60   | 15.74   | 118.524                | 20.74                   | 26.00                   | Pass        |
| 48    | 5240           | 15.78                         | 16.96   | 15.75   | 125.087                | 20.97                   | 26.00                   | Pass        |
| 149   | 5745           | 20.52                         | 20.67   | 20.61   | 344.481                | 25.37                   | 26.00                   | Pass        |
| 157   | 5785           | 20.27                         | 20.31   | 20.81   | 334.317                | 25.24                   | 26.00                   | Pass        |
| 165   | 5825           | 20.12                         | 20.22   | 21.03   | 334.763                | 25.25                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                         |                         |             |
| 38    | 5190           | 15.02                         | 16.41   | 14.71   | 105.101                | 20.22                   | 26.00                   | Pass        |
| 46    | 5230           | 17.78                         | 18.96   | 18.13   | 203.697                | 23.09                   | 26.00                   | Pass        |
| 151   | 5755           | 20.73                         | 20.75   | 20.44   | 347.816                | 25.41                   | 26.00                   | Pass        |
| 159   | 5795           | 20.72                         | 20.55   | 20.51   | 343.993                | 25.37                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                         |                         |             |
| 42    | 5210           | 14.66                         | 16.21   | 14.77   | 101.017                | 20.04                   | 26.00                   | Pass        |
| 155   | 5775           | 18.55                         | 19.25   | 18.20   | 221.823                | 23.46                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to  $30 - (10 - 6) = 26.00\text{dBm}$ .

### 3TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11ax (HE20)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 |                  |                   |                   |             |
| 36    | 5180        | 15.55                         | 17.11   | 16.08   | 127.847          | 21.07             | 21.23             | Pass        |
| 40    | 5200        | 15.48                         | 16.60   | 15.74   | 118.524          | 20.74             | 21.23             | Pass        |
| 48    | 5240        | 15.78                         | 16.96   | 15.75   | 125.087          | 20.97             | 21.23             | Pass        |
| 149   | 5745        | 15.91                         | 15.72   | 16.28   | 118.781          | 20.75             | 21.23             | Pass        |
| 157   | 5785        | 15.76                         | 16.21   | 15.83   | 117.735          | 20.71             | 21.23             | Pass        |
| 165   | 5825        | 16.01                         | 16.08   | 16.08   | 121.004          | 20.83             | 21.23             | Pass        |

Note: Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power limit shall be reduced to 30-(14.77-6) = 21.23dBm.

#### 802.11ax (HE40)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 |                  |                   |                   |             |
| 38    | 5190        | 15.02                         | 16.41   | 14.71   | 105.101          | 20.22             | 21.23             | Pass        |
| 46    | 5230        | 15.08                         | 16.02   | 15.11   | 104.639          | 20.20             | 21.23             | Pass        |
| 151   | 5755        | 15.88                         | 15.73   | 15.72   | 113.462          | 20.55             | 21.23             | Pass        |
| 159   | 5795        | 15.74                         | 15.93   | 16.28   | 119.133          | 20.76             | 21.23             | Pass        |

Note: Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power limit shall be reduced to 30-(14.77-6) = 21.23dBm.

#### 802.11ax (HE80)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 |                  |                   |                   |             |
| 42    | 5210        | 14.66                         | 16.21   | 14.77   | 101.017          | 20.04             | 21.23             | Pass        |
| 155   | 5775        | 15.74                         | 15.72   | 16.01   | 114.724          | 20.60             | 21.23             | Pass        |

Note: Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power limit shall be reduced to 30-(14.77-6) = 21.23dBm.

#### 4TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 14.96                         | 15.52   | 13.81   | 13.97   | 115.968                | 20.64                   | 26.00                   | Pass        |
| 40    | 5200           | 13.74                         | 14.68   | 13.62   | 13.74   | 99.708                 | 19.99                   | 26.00                   | Pass        |
| 48    | 5240           | 13.80                         | 14.30   | 13.60   | 13.73   | 97.417                 | 19.89                   | 26.00                   | Pass        |
| 149   | 5745           | 20.25                         | 19.88   | 19.22   | 19.16   | 369.174                | 25.67                   | 26.00                   | Pass        |
| 157   | 5785           | 20.16                         | 19.39   | 20.37   | 19.26   | 383.875                | 25.84                   | 26.00                   | Pass        |
| 165   | 5825           | 19.73                         | 20.02   | 20.59   | 18.89   | 386.431                | 25.87                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 36    | 5180           | 15.45                         | 15.95   | 14.85   | 14.97   | 136.384                | 21.35                   | 26.00                   | Pass        |
| 40    | 5200           | 15.10                         | 15.35   | 14.44   | 14.38   | 121.849                | 20.86                   | 26.00                   | Pass        |
| 48    | 5240           | 14.90                         | 15.41   | 14.36   | 14.18   | 119.129                | 20.76                   | 26.00                   | Pass        |
| 149   | 5745           | 20.54                         | 19.62   | 20.03   | 19.38   | 392.251                | 25.94                   | 26.00                   | Pass        |
| 157   | 5785           | 19.91                         | 19.75   | 20.57   | 18.97   | 385.266                | 25.86                   | 26.00                   | Pass        |
| 165   | 5825           | 19.77                         | 19.87   | 20.60   | 19.10   | 387.991                | 25.89                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 38    | 5190           | 14.94                         | 16.26   | 14.31   | 14.36   | 127.723                | 21.06                   | 26.00                   | Pass        |
| 46    | 5230           | 18.86                         | 19.44   | 18.73   | 18.26   | 306.448                | 24.86                   | 26.00                   | Pass        |
| 151   | 5755           | 20.77                         | 19.58   | 19.88   | 19.29   | 392.374                | 25.94                   | 26.00                   | Pass        |
| 159   | 5795           | 20.29                         | 19.72   | 20.07   | 19.03   | 382.269                | 25.82                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         |         |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                         |                         |             |
| 42    | 5210           | 14.84                         | 15.91   | 13.71   | 14.32   | 120.009                | 20.79                   | 26.00                   | Pass        |
| 155   | 5775           | 18.26                         | 17.63   | 17.51   | 17.31   | 235.122                | 23.71                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to  $30 - (10 - 6) = 26.00\text{dBm}$ .

#### 4TX (Beamforming Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11ax (HE20)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 36    | 5180        | 13.67                         | 13.93   | 13.56   | 13.55   | 93.343           | 19.70             | 19.98             | Pass        |
| 40    | 5200        | 13.67                         | 13.84   | 13.52   | 13.69   | 93.370           | 19.70             | 19.98             | Pass        |
| 48    | 5240        | 13.67                         | 13.98   | 13.61   | 13.66   | 94.472           | 19.75             | 19.98             | Pass        |
| 149   | 5745        | 14.54                         | 13.64   | 14.00   | 13.41   | 98.613           | 19.94             | 19.98             | Pass        |
| 157   | 5785        | 13.90                         | 13.71   | 14.59   | 12.94   | 96.496           | 19.85             | 19.98             | Pass        |
| 165   | 5825        | 13.77                         | 13.88   | 14.61   | 13.10   | 97.581           | 19.89             | 19.98             | Pass        |

Note: Directional gain = 10dBi + 10log(4) = 16.02dBi > 6dBi, so the power limit shall be reduced to 30-(16.02-6) = 19.98dBm.

#### 802.11ax (HE40)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 38    | 5190        | 13.65                         | 13.86   | 13.53   | 13.62   | 93.052           | 19.69             | 19.98             | Pass        |
| 46    | 5230        | 13.51                         | 13.82   | 13.62   | 13.57   | 92.303           | 19.65             | 19.98             | Pass        |
| 151   | 5755        | 14.78                         | 13.59   | 13.91   | 13.28   | 98.802           | 19.95             | 19.98             | Pass        |
| 159   | 5795        | 14.31                         | 13.70   | 14.08   | 12.99   | 95.912           | 19.82             | 19.98             | Pass        |

Note: Directional gain = 10dBi + 10log(4) = 16.02dBi > 6dBi, so the power limit shall be reduced to 30-(16.02-6) = 19.98dBm.

#### 802.11ax (HE80)

| Chan. | Freq. (MHz) | Maximum Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------------|-------------|
|       |             | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                   |                   |             |
| 42    | 5210        | 13.68                         | 13.93   | 13.53   | 13.62   | 93.608           | 19.71             | 19.98             | Pass        |
| 155   | 5775        | 14.25                         | 13.64   | 13.50   | 13.27   | 93.347           | 19.70             | 19.98             | Pass        |

Note: Directional gain = 10dBi + 10log(4) = 16.02dBi > 6dBi, so the power limit shall be reduced to 30-(16.02-6) = 19.98dBm.

Test Mode M - AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth7 Radio + POE

1TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

802.11a

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 36    | 5180           | 46.774                             | 16.70                               | 26.00             | Pass        |
| 40    | 5200           | 116.950                            | 20.68                               | 26.00             | Pass        |
| 48    | 5240           | 38.107                             | 15.81                               | 26.00             | Pass        |
| 149   | 5745           | 105.682                            | 20.24                               | 26.00             | Pass        |
| 157   | 5785           | 102.329                            | 20.10                               | 26.00             | Pass        |
| 165   | 5825           | 102.565                            | 20.11                               | 26.00             | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 36    | 5180           | 59.979                             | 17.78                               | 26.00             | Pass        |
| 40    | 5200           | 115.345                            | 20.62                               | 26.00             | Pass        |
| 48    | 5240           | 41.976                             | 16.23                               | 26.00             | Pass        |
| 149   | 5745           | 106.660                            | 20.28                               | 26.00             | Pass        |
| 157   | 5785           | 105.196                            | 20.22                               | 26.00             | Pass        |
| 165   | 5825           | 101.859                            | 20.08                               | 26.00             | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 38    | 5190           | 44.157                             | 16.45                               | 26.00             | Pass        |
| 46    | 5230           | 50.816                             | 17.06                               | 26.00             | Pass        |
| 151   | 5755           | 100.000                            | 20.00                               | 26.00             | Pass        |
| 159   | 5795           | 102.802                            | 20.12                               | 26.00             | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to  $30-(10-6) = 26.00\text{dBm}$ .

#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum<br>Conducted Power<br>(mW) | Maximum<br>Conducted Power<br>(dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------|------------------------------------|-------------------------------------|-------------------|-------------|
|       |                | Chain 0                            | Chain 0                             |                   |             |
| 42    | 5210           | 44.771                             | 16.51                               | 26.00             | Pass        |
| 155   | 5775           | 107.399                            | 20.31                               | 26.00             | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to  $30-(10-6) = 26.00\text{dBm}$ .

## 2TX (CDD Mode)

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |             |
| 36    | 5180           | 15.55                         | 16.33   | 78.846                 | 18.97                   | 26.00                   | Pass        |
| 40    | 5200           | 20.12                         | 20.44   | 213.464                | 23.29                   | 26.00                   | Pass        |
| 48    | 5240           | 15.81                         | 16.57   | 83.501                 | 19.22                   | 26.00                   | Pass        |
| 149   | 5745           | 20.22                         | 20.33   | 213.091                | 23.29                   | 26.00                   | Pass        |
| 157   | 5785           | 20.10                         | 20.24   | 208.011                | 23.18                   | 26.00                   | Pass        |
| 165   | 5825           | 20.15                         | 20.18   | 207.746                | 23.18                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |             |
| 36    | 5180           | 15.45                         | 15.88   | 73.801                 | 18.68                   | 26.00                   | Pass        |
| 40    | 5200           | 20.78                         | 21.51   | 261.253                | 24.17                   | 26.00                   | Pass        |
| 48    | 5240           | 16.23                         | 16.52   | 86.851                 | 19.39                   | 26.00                   | Pass        |
| 149   | 5745           | 20.28                         | 20.30   | 213.812                | 23.30                   | 26.00                   | Pass        |
| 157   | 5785           | 20.24                         | 20.24   | 211.364                | 23.25                   | 26.00                   | Pass        |
| 165   | 5825           | 20.08                         | 20.30   | 209.011                | 23.20                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |             |
| 38    | 5190           | 15.23                         | 15.55   | 69.235                 | 18.40                   | 26.00                   | Pass        |
| 46    | 5230           | 17.06                         | 17.99   | 113.767                | 20.56                   | 26.00                   | Pass        |
| 151   | 5755           | 20.06                         | 20.31   | 208.790                | 23.20                   | 26.00                   | Pass        |
| 159   | 5795           | 20.12                         | 20.17   | 206.794                | 23.16                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to 30-(10-6) = 26.00dBm.

## 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | Maximum Conducted Power (dBm) |         | Total<br>Power<br>(mW) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Pass / Fail |
|-------|----------------|-------------------------------|---------|------------------------|-------------------------|-------------------------|-------------|
|       |                | Chain 0                       | Chain 1 |                        |                         |                         |             |
| 42    | 5210           | 14.22                         | 14.54   | 54.869                 | 17.39                   | 26.00                   | Pass        |
| 155   | 5775           | 19.12                         | 20.02   | 182.120                | 22.60                   | 26.00                   | Pass        |

Note: Gain = 10dBi > 6dBi, so the power limit shall be reduced to  $30 - (10 - 6) = 26.00$  dBm.

**6.6 量測結果判定**

依據測試數據結果，符合低功率射頻電機技術規範之要求。

## 7 功率頻譜密度之量測

### 7.1 適用標準

| 待測物操作頻帶                                                 | 適用標準                                                                                |
|---------------------------------------------------------|-------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> 5.15 GHz~5.25 GHz   | <input type="checkbox"/> 請見本報告 3.1 節第 7 項(II) (A)及 4 項(II)(A)的規定(供戶外操作使用)           |
|                                                         | <input checked="" type="checkbox"/> 請見本報告 3.1 節第 7 項(II)(A)及 4 項(II)(B)的規定(供室內操作使用) |
|                                                         | <input type="checkbox"/> 請見本報告 3.1 節第 7 項(II)(A)及 4 項(II)(C)的規定(供固定式點對點操作使用)        |
|                                                         | <input type="checkbox"/> 請見本報告 3.1 節第 7 項(II)(B)及 4 項(II)(D)的規定(供用戶端裝置使用)           |
| <input type="checkbox"/> 5.25 GHz~5.35 GHz              | 請見本報告 3.1 節第 7 項(III)及 4 項(III)的規定                                                  |
| <input type="checkbox"/> 5.470 GHz~5.725 GHz            | 請見本報告 3.1 節第 7 項(III)及 4 項(III)的規定                                                  |
| <input checked="" type="checkbox"/> 5.725 GHz~5.850 GHz | 請見本報告 3.1 節第 7 項(IV)及 4 項(IV)的規定                                                    |

### 7.2 量測方法

For 5180 ~ 5240MHz:

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- Set Channel power measure = 1MHz
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

For 5745 ~ 5825MHz:

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW  $\geq$  1 MHz, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where  $BWCF = 10\log(500 \text{ kHz} / 300 \text{ kHz})$
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

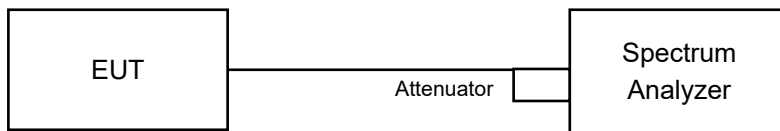
### 7.3 量測儀器

| Description & Manufacturer           | Model No. | Serial No. | Date of Calibration | Due Date of Calibration |
|--------------------------------------|-----------|------------|---------------------|-------------------------|
| Spectrum Analyzer<br>ROHDE & SCHWARZ | FSP40     | 100040     | Sep. 25, 2018       | Sep. 24, 2019           |
|                                      |           |            | Sep. 23, 2019       | Sep. 22, 2020           |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The measurement uncertainty is 207Hz, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 7.4 測試配置



## 7.5 量測結果

Test Mode A - AP43 (Internal antenna) + Eth6 Radio + POE

1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 2                          |                        |                                      |                         |             |
| 36    | 5180           | 4.09                             | 0.23                   | 4.32                                 | 17.00                   | Pass        |
| 40    | 5200           | 5.95                             | 0.23                   | 6.18                                 | 17.00                   | Pass        |
| 48    | 5240           | 3.80                             | 0.23                   | 4.03                                 | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 2                          |                        |                                      |                         |             |
| 36    | 5180           | 3.59                             | 0.23                   | 3.82                                 | 17.00                   | Pass        |
| 40    | 5200           | 5.98                             | 0.23                   | 6.21                                 | 17.00                   | Pass        |
| 48    | 5240           | 3.88                             | 0.23                   | 4.11                                 | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 2                          |                        |                                      |                         |             |
| 38    | 5190           | -0.46                            | 0.51                   | 0.05                                 | 17.00                   | Pass        |
| 46    | 5230           | 1.49                             | 0.51                   | 2.00                                 | 17.00                   | Pass        |

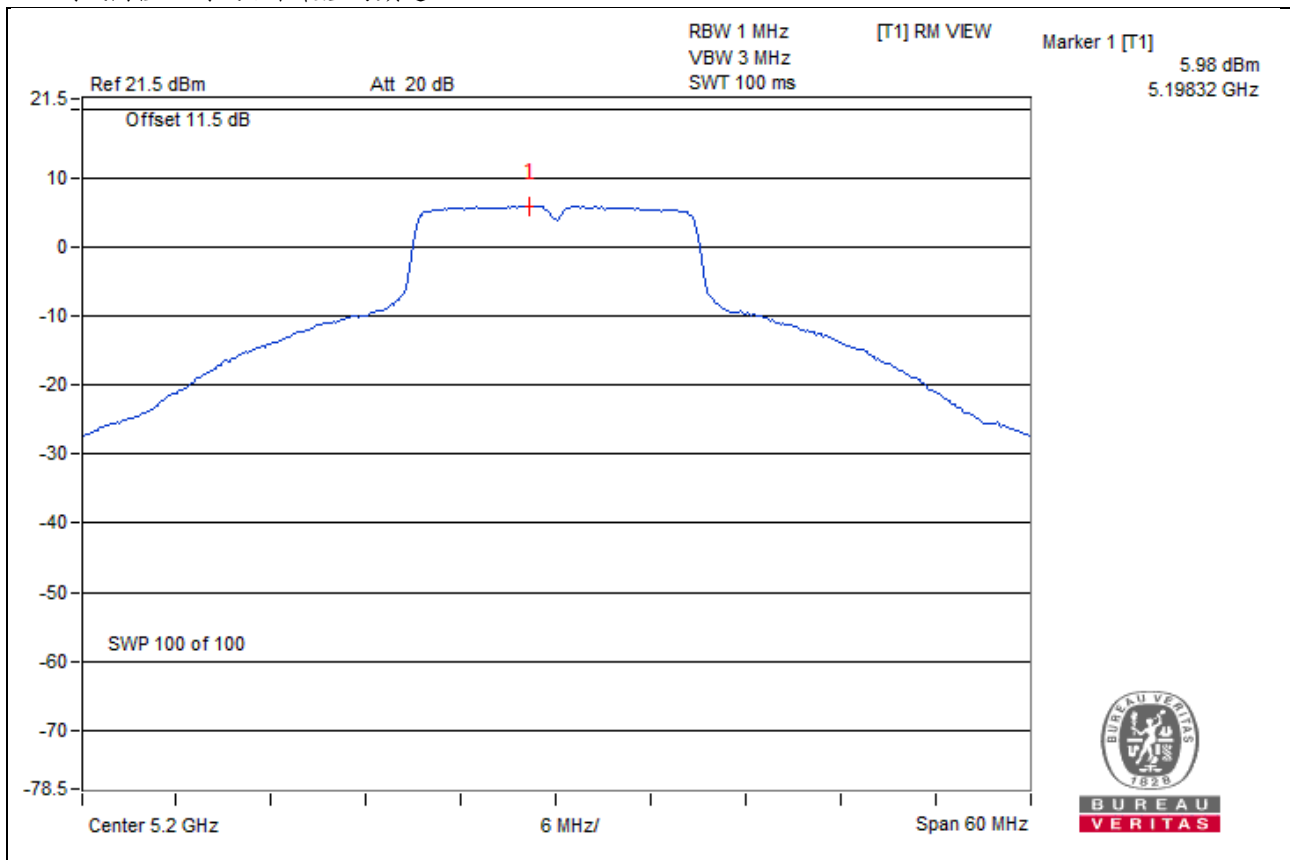
Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 2                          |                        |                                      |                         |             |
| 42    | 5210           | -3.70                            | 0.35                   | -3.35                                | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 2        | 149   | 5745        | -2.42               | -0.20        | 0.23             | 0.03                                    | 30.00              | Pass        |
|          | 157   | 5785        | -2.40               | -0.18        | 0.23             | 0.05                                    | 30.00              | Pass        |
|          | 165   | 5825        | -1.72               | 0.50         | 0.23             | 0.73                                    | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 2        | 149   | 5745        | -3.00               | -0.78        | 0.23             | -0.55                                   | 30.00              | Pass        |
|          | 157   | 5785        | -2.79               | -0.57        | 0.23             | -0.34                                   | 30.00              | Pass        |
|          | 165   | 5825        | -2.35               | -0.13        | 0.23             | 0.10                                    | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 2        | 151   | 5755        | -5.62               | -3.40        | 0.51             | -2.89                                   | 30.00              | Pass        |
|          | 159   | 5795        | -5.46               | -3.24        | 0.51             | -2.73                                   | 30.00              | Pass        |

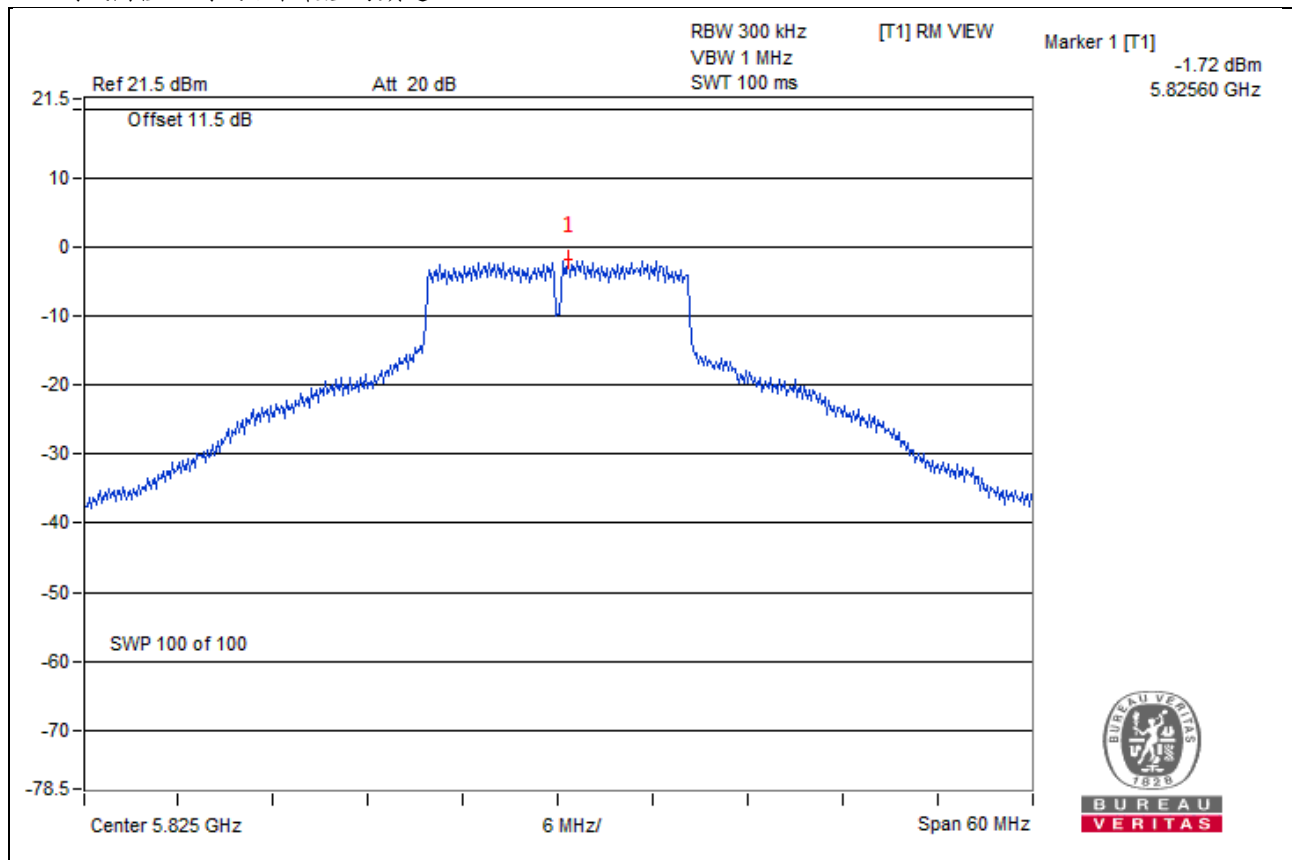
Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 2        | 155   | 5775        | -8.88               | -6.66        | 0.35             | -6.31                                   | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 2                       | Chain 3 |                        |                                            |                         |                |
| 36    | 5180           | 3.16                          | 4.19    | 0.22                   | 6.94                                       | 14.24                   | Pass           |
| 40    | 5200           | 5.31                          | 6.52    | 0.22                   | 9.19                                       | 14.24                   | Pass           |
| 48    | 5240           | 3.67                          | 4.32    | 0.22                   | 7.24                                       | 14.24                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (8.76 - 6) = 14.24\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 2                       | Chain 3 |                        |                                            |                         |                |
| 36    | 5180           | 2.31                          | 3.06    | 0.23                   | 5.94                                       | 14.24                   | Pass           |
| 40    | 5200           | 5.10                          | 5.91    | 0.23                   | 8.76                                       | 14.24                   | Pass           |
| 48    | 5240           | 3.34                          | 3.94    | 0.23                   | 6.89                                       | 14.24                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (8.76 - 6) = 14.24\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 2                       | Chain 3 |                        |                                            |                         |                |
| 38    | 5190           | -2.22                         | -1.14   | 0.44                   | 1.80                                       | 14.24                   | Pass           |
| 46    | 5230           | 1.19                          | 2.23    | 0.44                   | 5.19                                       | 14.24                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(8.76-6) = 14.24\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

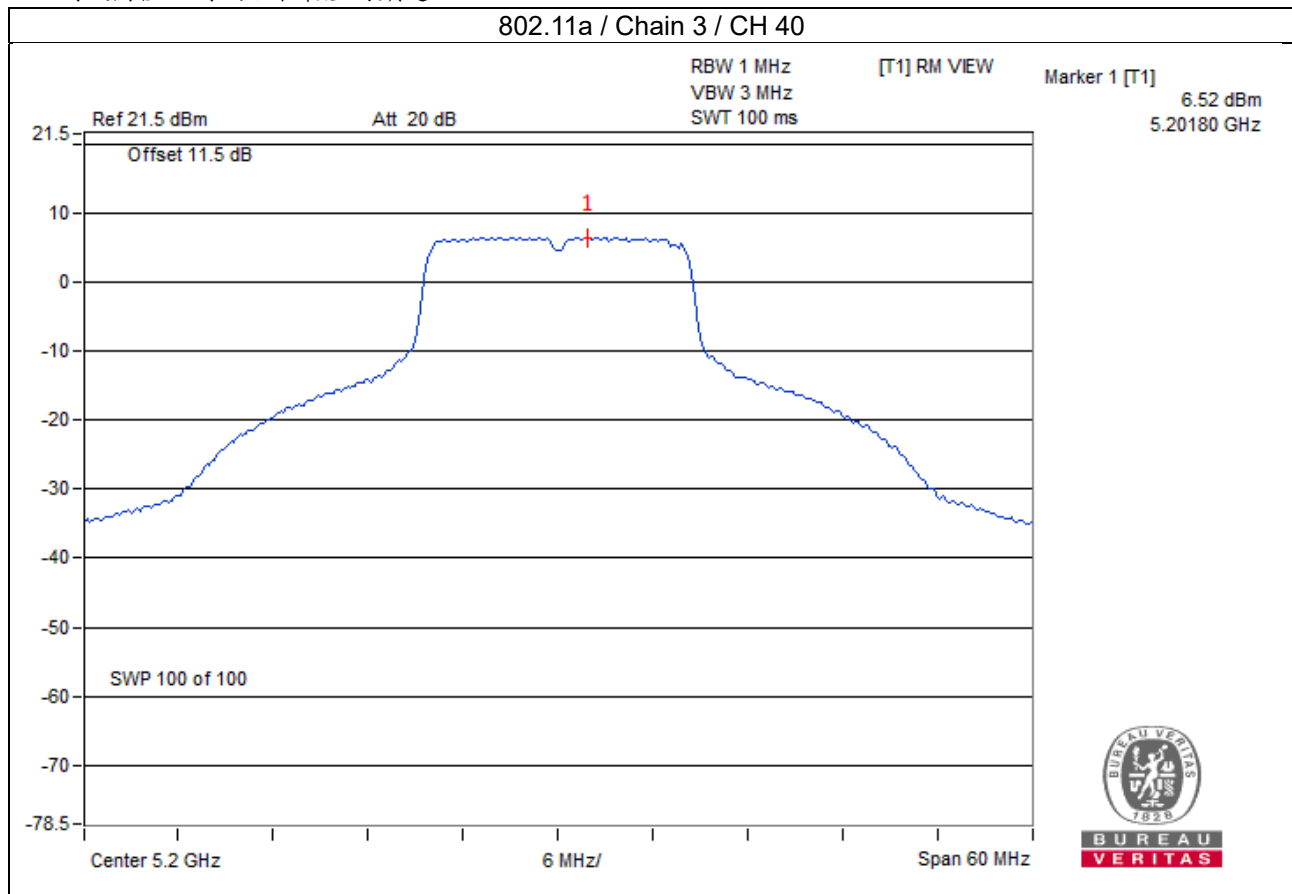
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 2                       | Chain 3 |                        |                                            |                         |                |
| 42    | 5210           | -4.62                         | -4.61   | 0.35                   | -1.26                                      | 14.24                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(8.76-6) = 14.24\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 2        | 149   | 5745        | -2.42               | -0.20        | 3.01            | 0.22             | 3.03                                    | 27.24               | Pass        |
|          | 157   | 5785        | -2.40               | -0.18        | 3.01            | 0.22             | 3.05                                    | 27.24               | Pass        |
|          | 165   | 5825        | -1.72               | 0.50         | 3.01            | 0.22             | 3.73                                    | 27.24               | Pass        |
| 3        | 149   | 5745        | -1.96               | 0.26         | 3.01            | 0.22             | 3.49                                    | 27.24               | Pass        |
|          | 157   | 5785        | -1.85               | 0.37         | 3.01            | 0.22             | 3.60                                    | 27.24               | Pass        |
|          | 165   | 5825        | -1.55               | 0.67         | 3.01            | 0.22             | 3.90                                    | 27.24               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(8.76-6) = 27.24\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 2        | 149   | 5745        | -3.00               | -0.78        | 3.01            | 0.23             | 2.46                                    | 27.24               | Pass        |
|          | 157   | 5785        | -2.79               | -0.57        | 3.01            | 0.23             | 2.67                                    | 27.24               | Pass        |
|          | 165   | 5825        | -2.35               | -0.13        | 3.01            | 0.23             | 3.11                                    | 27.24               | Pass        |
| 3        | 149   | 5745        | -2.43               | -0.21        | 3.01            | 0.23             | 3.03                                    | 27.24               | Pass        |
|          | 157   | 5785        | -2.17               | 0.05         | 3.01            | 0.23             | 3.29                                    | 27.24               | Pass        |
|          | 165   | 5825        | -1.68               | 0.54         | 3.01            | 0.23             | 3.78                                    | 27.24               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(8.76-6) = 27.24\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 2        | 151   | 5755        | -5.62               | -3.40        | 3.01            | 0.44             | 0.05                                    | 27.24               | Pass        |
|          | 159   | 5795        | -5.46               | -3.24        | 3.01            | 0.44             | 0.21                                    | 27.24               | Pass        |
| 3        | 151   | 5755        | -6.67               | -4.45        | 3.01            | 0.44             | -1.00                                   | 27.24               | Pass        |
|          | 159   | 5795        | -6.00               | -3.78        | 3.01            | 0.44             | -0.33                                   | 27.24               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (8.76 - 6) = 27.24\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

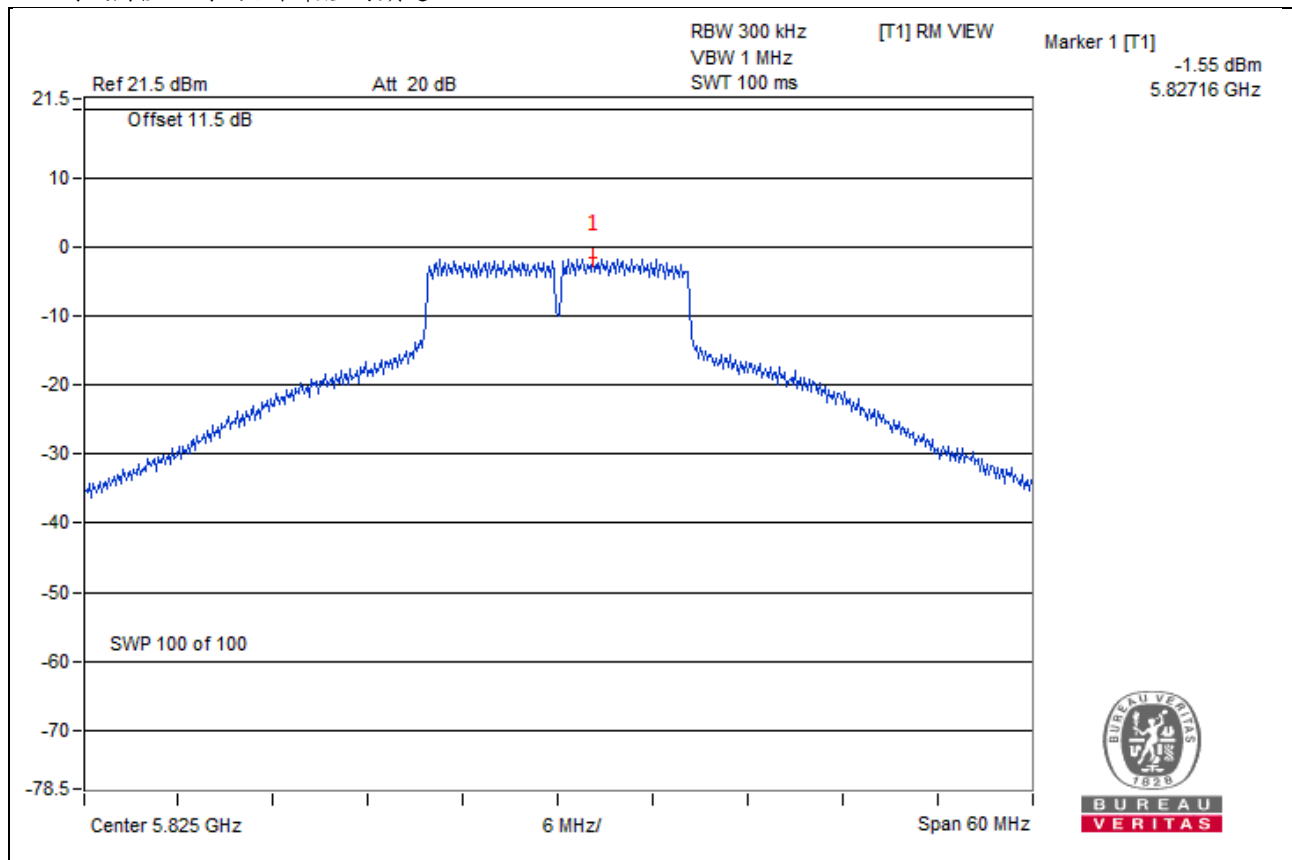
### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 2        | 155   | 5775        | -12.03              | -9.81        | 3.01            | 0.35             | -6.45                                   | 27.24              | Pass        |
| 3        | 155   | 5775        | -11.50              | -9.28        | 3.01            | 0.35             | -5.92                                   | 27.24              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.76\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (8.76 - 6) = 27.24\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



### 3TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

#### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 36    | 5180           | 3.25                          | 3.58    | 2.42    | 0.22                   | 8.10                                       | 12.59                   | Pass           |
| 40    | 5200           | 4.98                          | 5.08    | 4.19    | 0.22                   | 9.76                                       | 12.59                   | Pass           |
| 48    | 5240           | 4.74                          | 4.16    | 3.82    | 0.22                   | 9.25                                       | 12.59                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(10.41-6) = 12.59\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 36    | 5180           | 2.07                          | 2.49    | 1.32    | 0.23                   | 6.99                                       | 12.59                   | Pass           |
| 40    | 5200           | 4.45                          | 4.64    | 3.48    | 0.23                   | 9.22                                       | 12.59                   | Pass           |
| 48    | 5240           | 3.44                          | 4.05    | 3.16    | 0.23                   | 8.57                                       | 12.59                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(10.41-6) = 12.59\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 38    | 5190           | -2.49                         | -2.43   | -3.05   | 0.44                   | 2.56                                       | 12.59                   | Pass           |
| 46    | 5230           | 0.93                          | 1.62    | 0.90    | 0.44                   | 6.37                                       | 12.59                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(10.41-6) = 12.59\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

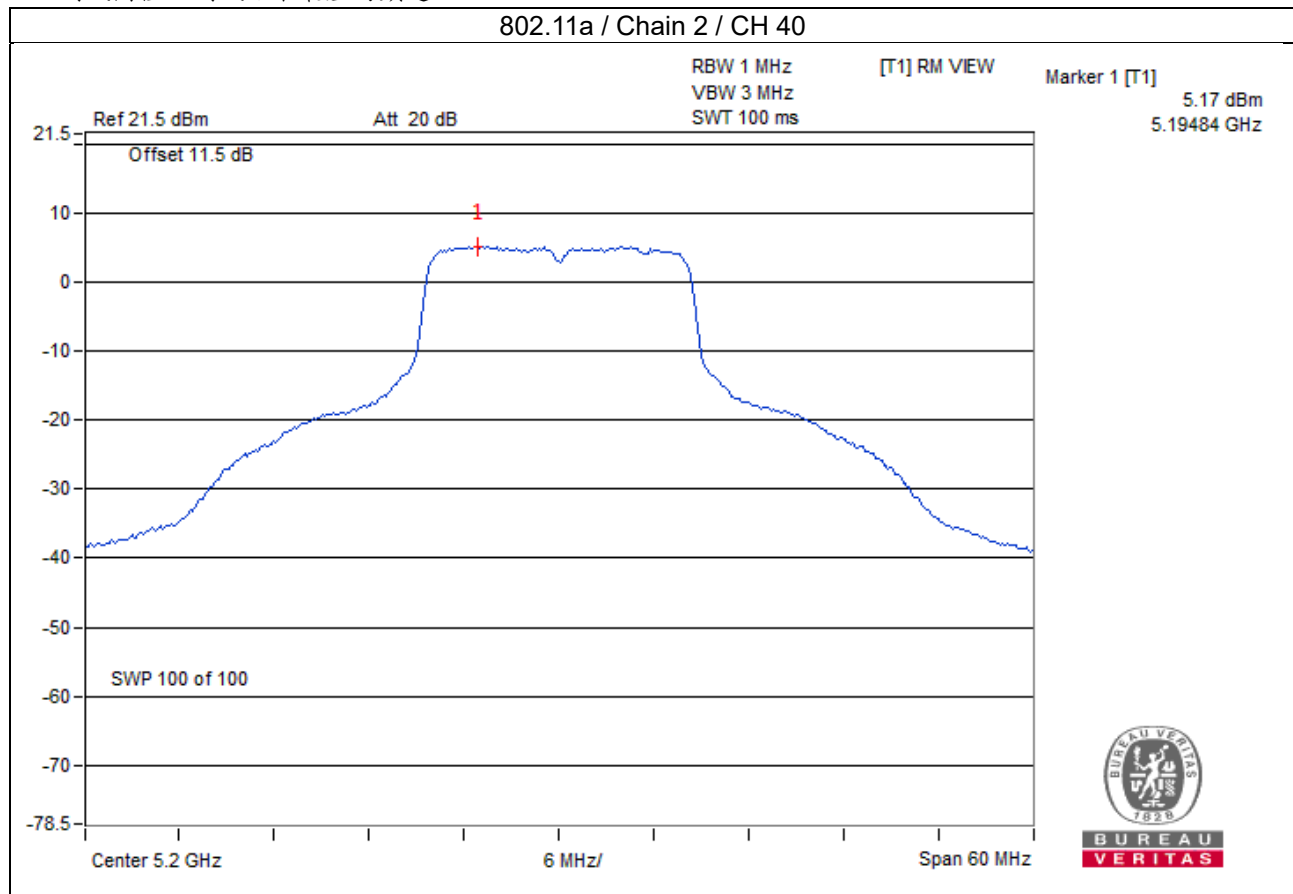
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 1                       | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 42    | 5210           | -5.81                         | -5.17   | -5.18   | 0.35                   | -0.26                                      | 12.59                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(10.41-6) = 12.59\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 149   | 5745        | -1.96               | 0.26         | 4.77            | 0.22             | 5.25                                    | 25.59               | Pass        |
|          | 157   | 5785        | -1.85               | 0.37         | 4.77            | 0.22             | 5.36                                    | 25.59               | Pass        |
|          | 165   | 5825        | -1.55               | 0.67         | 4.77            | 0.22             | 5.66                                    | 25.59               | Pass        |
| 2        | 149   | 5745        | -2.28               | -0.06        | 4.77            | 0.22             | 4.93                                    | 25.59               | Pass        |
|          | 157   | 5785        | -2.10               | 0.12         | 4.77            | 0.22             | 5.11                                    | 25.59               | Pass        |
|          | 165   | 5825        | -1.77               | 0.45         | 4.77            | 0.22             | 5.44                                    | 25.59               | Pass        |
| 3        | 149   | 5745        | -2.42               | -0.20        | 4.77            | 0.22             | 4.79                                    | 25.59               | Pass        |
|          | 157   | 5785        | -2.40               | -0.18        | 4.77            | 0.22             | 4.81                                    | 25.59               | Pass        |
|          | 165   | 5825        | -1.72               | 0.50         | 4.77            | 0.22             | 5.49                                    | 25.59               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(10.41-6) = 25.59\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 149   | 5745        | -2.43               | -0.21        | 4.77            | 0.23             | 4.79                                    | 25.59               | Pass        |
|          | 157   | 5785        | -2.17               | 0.05         | 4.77            | 0.23             | 5.05                                    | 25.59               | Pass        |
|          | 165   | 5825        | -1.68               | 0.54         | 4.77            | 0.23             | 5.54                                    | 25.59               | Pass        |
| 2        | 149   | 5745        | -2.63               | -0.41        | 4.77            | 0.23             | 4.59                                    | 25.59               | Pass        |
|          | 157   | 5785        | -2.19               | 0.03         | 4.77            | 0.23             | 5.03                                    | 25.59               | Pass        |
|          | 165   | 5825        | -2.12               | 0.10         | 4.77            | 0.23             | 5.10                                    | 25.59               | Pass        |
| 3        | 149   | 5745        | -3.00               | -0.78        | 4.77            | 0.23             | 4.22                                    | 25.59               | Pass        |
|          | 157   | 5785        | -2.79               | -0.57        | 4.77            | 0.23             | 4.43                                    | 25.59               | Pass        |
|          | 165   | 5825        | -2.35               | -0.13        | 4.77            | 0.23             | 4.87                                    | 25.59               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(10.41-6) = 25.59\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 151   | 5755        | -6.67               | -4.45        | 4.77            | 0.44             | 0.76                                    | 25.59               | Pass        |
|          | 159   | 5795        | -6.00               | -3.78        | 4.77            | 0.44             | 1.43                                    | 25.59               | Pass        |
| 2        | 151   | 5755        | -6.45               | -4.23        | 4.77            | 0.44             | 0.98                                    | 25.59               | Pass        |
|          | 159   | 5795        | -6.04               | -3.82        | 4.77            | 0.44             | 1.39                                    | 25.59               | Pass        |
| 3        | 151   | 5755        | -5.62               | -3.40        | 4.77            | 0.44             | 1.81                                    | 25.59               | Pass        |
|          | 159   | 5795        | -5.46               | -3.24        | 4.77            | 0.44             | 1.97                                    | 25.59               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(10.41-6) = 25.59\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

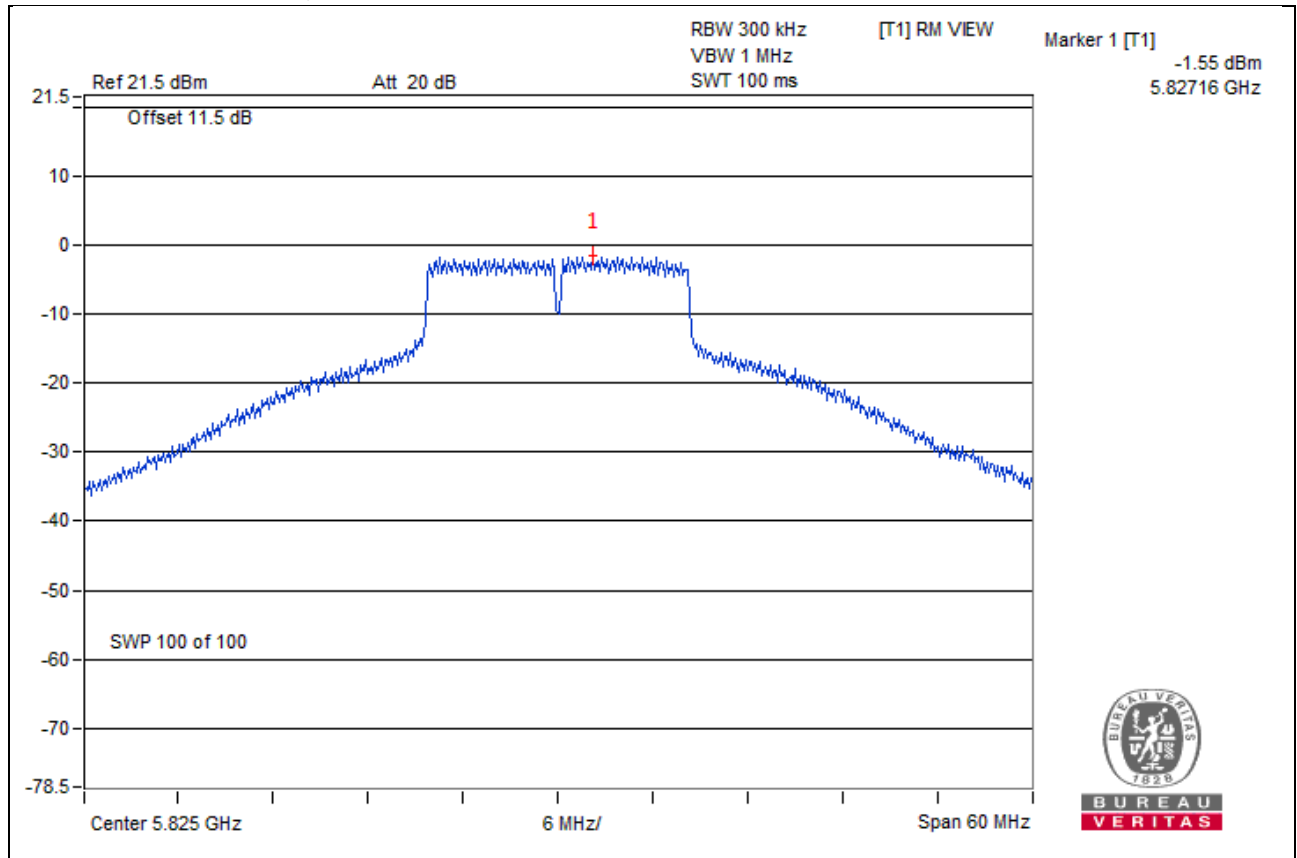
#### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 1        | 155   | 5775        | -12.55              | -10.33       | 4.77            | 0.35             | -5.21                                   | 25.59              | Pass        |
| 2        | 155   | 5775        | -12.01              | -9.79        | 4.77            | 0.35             | -4.67                                   | 25.59              | Pass        |
| 3        | 155   | 5775        | -12.26              | -10.04       | 4.77            | 0.35             | -4.92                                   | 25.59              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 10.41\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(10.41-6) = 25.59\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



#### 4TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

For 5180 ~ 5240MHz

#### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 36    | 5180           | 1.31                          | 3.01    | 1.46    | 1.83    | 0.48                   | 8.46                                       | 11.55                   | Pass           |
| 40    | 5200           | 2.96                          | 4.91    | 3.33    | 2.85    | 0.48                   | 10.10                                      | 11.55                   | Pass           |
| 48    | 5240           | 2.60                          | 4.39    | 2.91    | 3.18    | 0.48                   | 9.83                                       | 11.55                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(11.45-6) = 11.55\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 36    | 5180           | 1.47                          | 2.52    | 1.55    | 1.60    | 0.29                   | 8.12                                       | 11.55                   | Pass           |
| 40    | 5200           | 3.48                          | 4.28    | 2.82    | 3.44    | 0.29                   | 9.85                                       | 11.55                   | Pass           |
| 48    | 5240           | 2.72                          | 3.90    | 3.00    | 2.95    | 0.29                   | 9.48                                       | 11.55                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(11.45-6) = 11.55\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 38    | 5190           | -3.54                         | -2.32   | -3.93   | -3.98   | 0.24                   | 2.87                                       | 11.55                   | Pass           |
| 46    | 5230           | 0.63                          | 1.52    | 1.34    | 0.80    | 0.24                   | 7.35                                       | 11.55                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(11.45-6) = 11.55\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

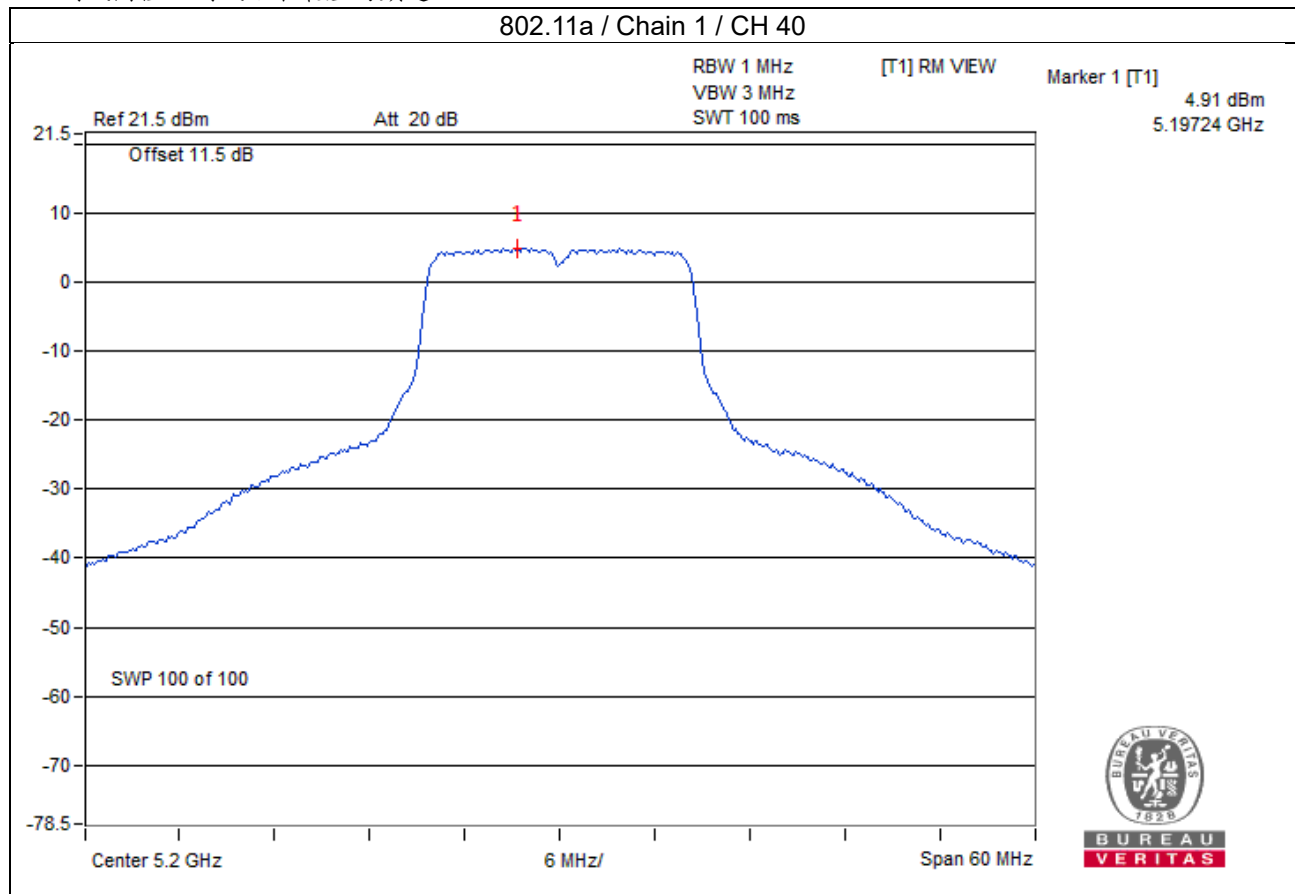
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 42    | 5210           | -6.93                         | -5.85   | -6.55   | -6.97   | 0.33                   | -0.20                                      | 11.55                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(11.45-6) = 11.55\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -1.32               | 0.90         | 6.02            | 0.48             | 7.40                                    | 24.55               | Pass        |
|          | 157   | 5785        | -1.59               | 0.63         | 6.02            | 0.48             | 7.13                                    | 24.55               | Pass        |
|          | 165   | 5825        | -1.29               | 0.93         | 6.02            | 0.48             | 7.43                                    | 24.55               | Pass        |
| 1        | 149   | 5745        | -1.26               | 0.96         | 6.02            | 0.48             | 7.46                                    | 24.55               | Pass        |
|          | 157   | 5785        | -1.41               | 0.81         | 6.02            | 0.48             | 7.31                                    | 24.55               | Pass        |
|          | 165   | 5825        | -1.36               | 0.86         | 6.02            | 0.48             | 7.36                                    | 24.55               | Pass        |
| 2        | 149   | 5745        | -1.33               | 0.89         | 6.02            | 0.48             | 7.39                                    | 24.55               | Pass        |
|          | 157   | 5785        | -1.07               | 1.15         | 6.02            | 0.48             | 7.65                                    | 24.55               | Pass        |
|          | 165   | 5825        | -1.04               | 1.18         | 6.02            | 0.48             | 7.68                                    | 24.55               | Pass        |
| 3        | 149   | 5745        | -1.30               | 0.92         | 6.02            | 0.48             | 7.42                                    | 24.55               | Pass        |
|          | 157   | 5785        | -1.52               | 0.70         | 6.02            | 0.48             | 7.20                                    | 24.55               | Pass        |
|          | 165   | 5825        | -1.56               | 0.66         | 6.02            | 0.48             | 7.16                                    | 24.55               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(11.45-6) = 24.55\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -2.54               | -0.32        | 6.02            | 0.29             | 5.99                                    | 24.55               | Pass        |
|          | 157   | 5785        | -2.49               | -0.27        | 6.02            | 0.29             | 6.04                                    | 24.55               | Pass        |
|          | 165   | 5825        | -2.47               | -0.25        | 6.02            | 0.29             | 6.06                                    | 24.55               | Pass        |
| 1        | 149   | 5745        | -2.46               | -0.24        | 6.02            | 0.29             | 6.07                                    | 24.55               | Pass        |
|          | 157   | 5785        | -2.78               | -0.56        | 6.02            | 0.29             | 5.75                                    | 24.55               | Pass        |
|          | 165   | 5825        | -2.76               | -0.54        | 6.02            | 0.29             | 5.77                                    | 24.55               | Pass        |
| 2        | 149   | 5745        | -2.72               | -0.50        | 6.02            | 0.29             | 5.81                                    | 24.55               | Pass        |
|          | 157   | 5785        | -2.77               | -0.55        | 6.02            | 0.29             | 5.76                                    | 24.55               | Pass        |
|          | 165   | 5825        | -2.29               | -0.07        | 6.02            | 0.29             | 6.24                                    | 24.55               | Pass        |
| 3        | 149   | 5745        | -2.29               | -0.07        | 6.02            | 0.29             | 6.24                                    | 24.55               | Pass        |
|          | 157   | 5785        | -2.71               | -0.49        | 6.02            | 0.29             | 5.82                                    | 24.55               | Pass        |
|          | 165   | 5825        | -2.63               | -0.41        | 6.02            | 0.29             | 5.90                                    | 24.55               | Pass        |

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(11.45-6) = 24.55\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 151   | 5755        | -4.74               | -2.52        | 6.02            | 0.24             | 3.74                                    | 24.55              | Pass        |
|          | 159   | 5795        | -4.71               | -2.49        | 6.02            | 0.24             | 3.77                                    | 24.55              | Pass        |
| 1        | 151   | 5755        | -5.56               | -3.34        | 6.02            | 0.24             | 2.92                                    | 24.55              | Pass        |
|          | 159   | 5795        | -5.86               | -3.64        | 6.02            | 0.24             | 2.62                                    | 24.55              | Pass        |
| 2        | 151   | 5755        | -5.94               | -3.72        | 6.02            | 0.24             | 2.54                                    | 24.55              | Pass        |
|          | 159   | 5795        | -6.04               | -3.82        | 6.02            | 0.24             | 2.44                                    | 24.55              | Pass        |
| 3        | 151   | 5755        | -4.54               | -2.32        | 6.02            | 0.24             | 3.94                                    | 24.55              | Pass        |
|          | 159   | 5795        | -5.21               | -2.99        | 6.02            | 0.24             | 3.27                                    | 24.55              | Pass        |

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(11.45-6) = 24.55\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

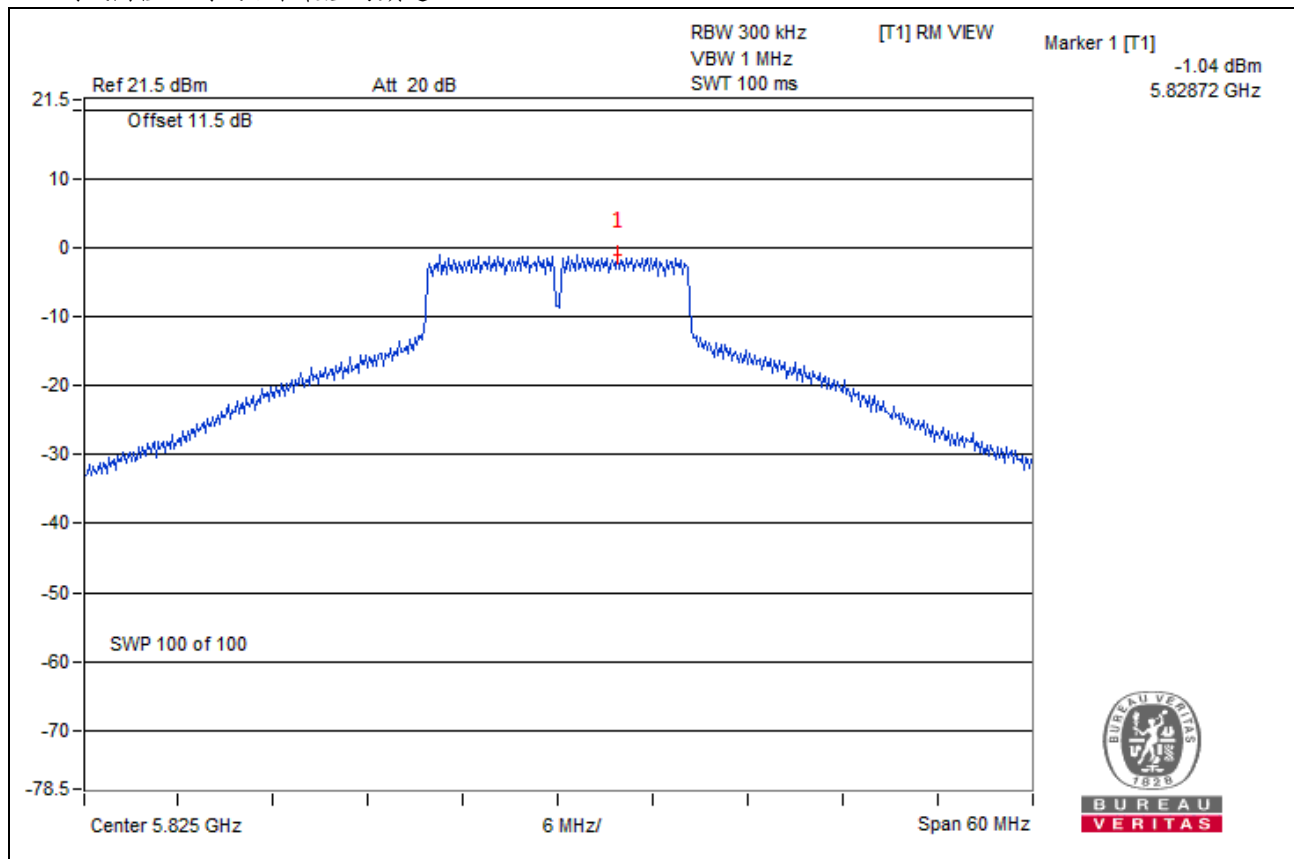
### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 155   | 5775        | -12.45              | -10.23       | 6.02            | 0.33             | -3.88                                   | 24.55              | Pass        |
| 1        | 155   | 5775        | -12.30              | -10.08       | 6.02            | 0.33             | -3.73                                   | 24.55              | Pass        |
| 2        | 155   | 5775        | -13.17              | -10.95       | 6.02            | 0.33             | -4.60                                   | 24.55              | Pass        |
| 3        | 155   | 5775        | -8.05               | -5.83        | 6.02            | 0.33             | 0.52                                    | 24.55              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (11.45 - 6) = 24.55\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



# Test Mode C - AP43 (Internal antenna) + Eth7 Radio + POE

## 1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 06 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

## 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 36    | 5180           | 4.96                             | 0.30                   | 5.26                                 | 17.00                   | Pass        |
| 40    | 5200           | 7.03                             | 0.30                   | 7.33                                 | 17.00                   | Pass        |
| 48    | 5240           | 6.31                             | 0.30                   | 6.61                                 | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

## 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 36    | 5180           | 4.17                             | 0.27                   | 4.44                                 | 17.00                   | Pass        |
| 40    | 5200           | 6.64                             | 0.27                   | 6.91                                 | 17.00                   | Pass        |
| 48    | 5240           | 5.58                             | 0.27                   | 5.85                                 | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

## 802.11ax (HE40)

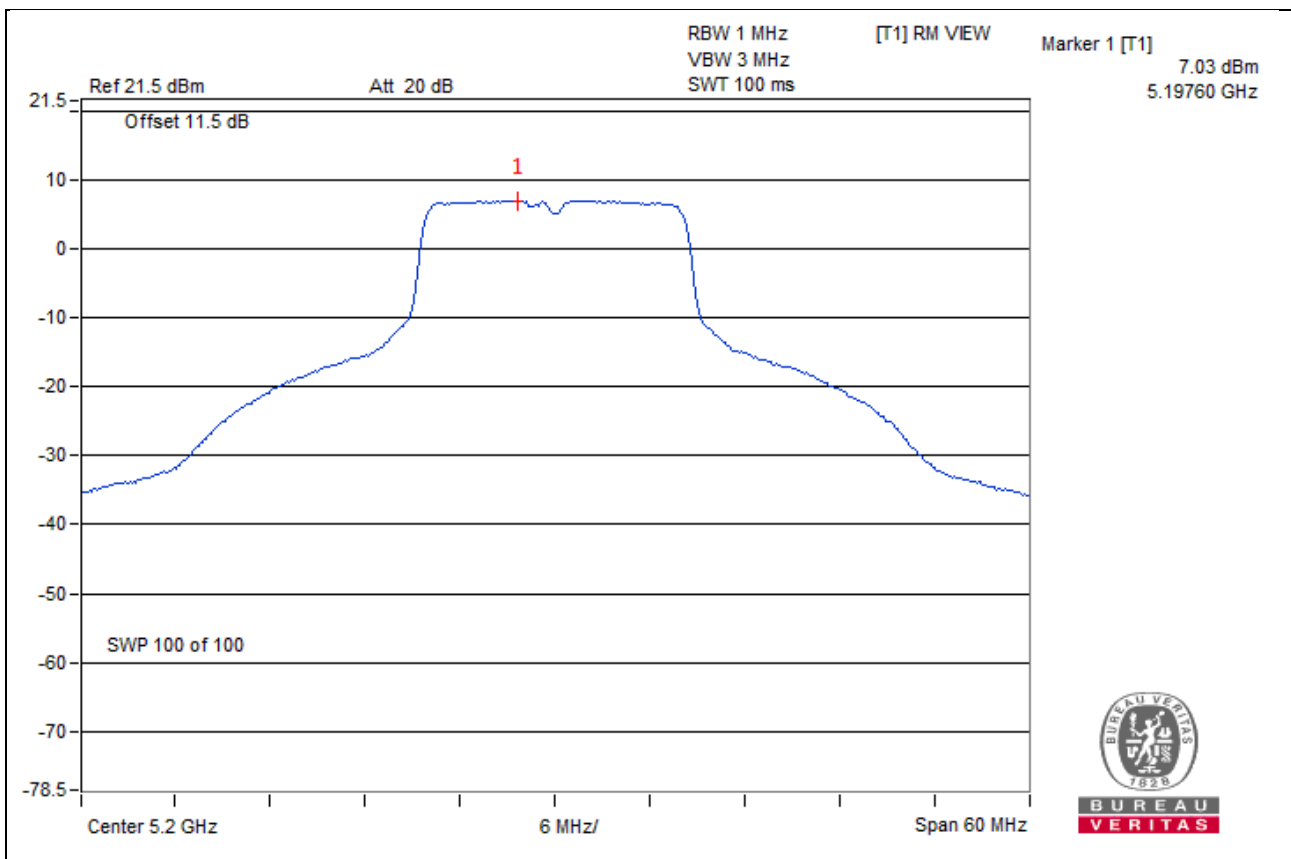
| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 38    | 5190           | -0.81                            | 0.48                   | -0.33                                | 17.00                   | Pass        |
| 46    | 5230           | 2.45                             | 0.48                   | 2.93                                 | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

## 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 42    | 5210           | -5.05                            | 0.35                   | -4.70                                | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 149   | 5745        | -0.06               | 2.16         | 0.30             | 2.46                                    | 30.00              | Pass        |
|          | 157   | 5785        | -0.56               | 1.66         | 0.30             | 1.96                                    | 30.00              | Pass        |
|          | 165   | 5825        | -1.05               | 1.17         | 0.30             | 1.47                                    | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 149   | 5745        | 0.10                | 2.32         | 0.27             | 2.59                                    | 30.00              | Pass        |
|          | 157   | 5785        | -0.45               | 1.77         | 0.27             | 2.04                                    | 30.00              | Pass        |
|          | 165   | 5825        | -1.21               | 1.01         | 0.27             | 1.28                                    | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

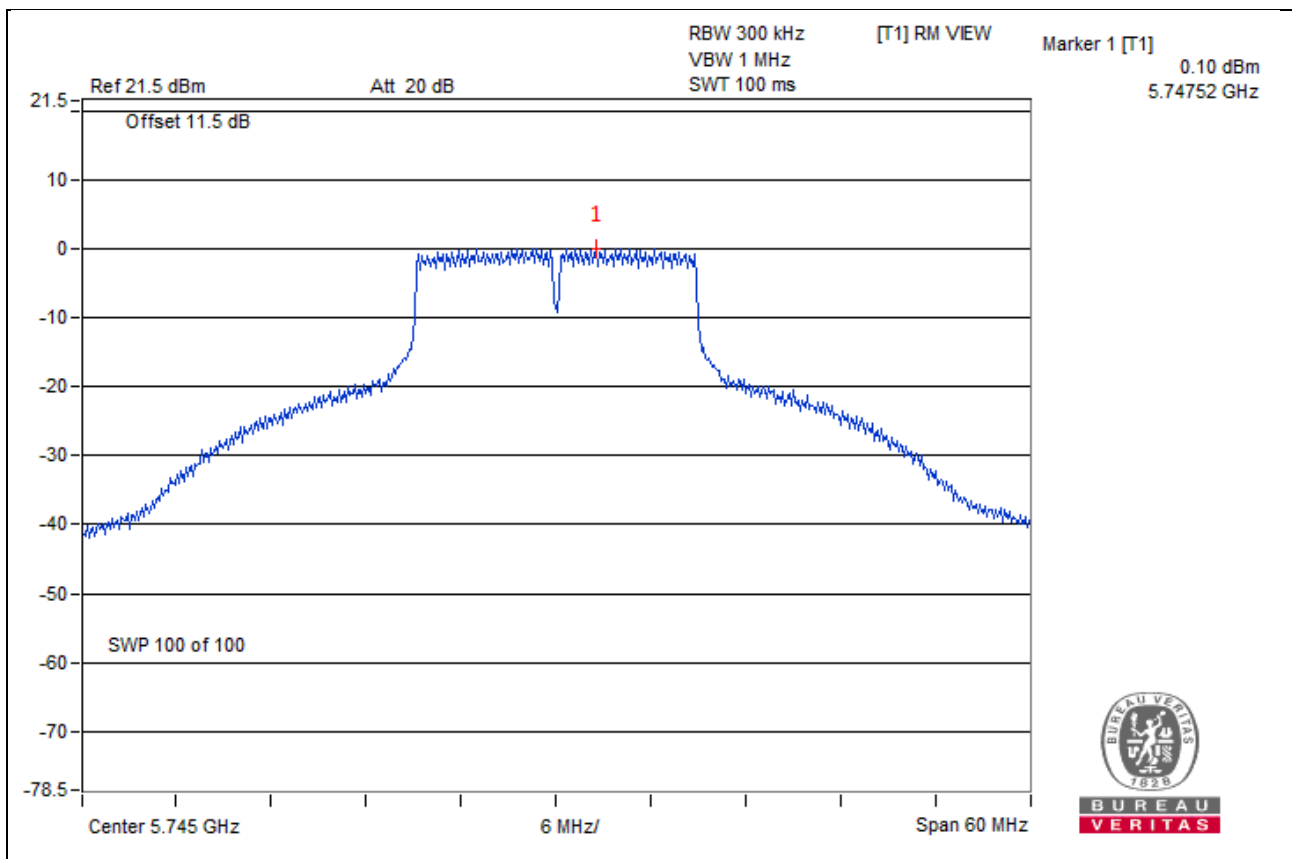
| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 151   | 5755        | -3.97               | -1.75        | 0.48             | -1.27                                   | 30.00              | Pass        |
|          | 159   | 5795        | -4.20               | -1.98        | 0.48             | -1.50                                   | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 155   | 5775        | -7.71               | -5.49        | 0.35             | -5.14                                   | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

For 5180 ~ 5240MHz

### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 36    | 5180           | 5.09                          | 3.25    | 0.24                   | 7.52                                       | 14.54                   | Pass           |
| 40    | 5200           | 9.51                          | 7.79    | 0.24                   | 11.98                                      | 14.54                   | Pass           |
| 48    | 5240           | 5.87                          | 3.19    | 0.24                   | 7.98                                       | 14.54                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (8.46 - 6) = 14.54\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 36    | 5180           | 4.49                          | 3.00    | 0.19                   | 7.01                                       | 14.54                   | Pass           |
| 40    | 5200           | 8.31                          | 6.58    | 0.19                   | 10.73                                      | 14.54                   | Pass           |
| 48    | 5240           | 4.92                          | 2.34    | 0.19                   | 7.02                                       | 14.54                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (8.46 - 6) = 14.54\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 38    | 5190           | -0.41                         | -2.00   | 0.18                   | 2.06                                       | 14.54                   | Pass           |
| 46    | 5230           | 3.65                          | 1.91    | 0.18                   | 6.06                                       | 14.54                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(8.46-6) = 14.54\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

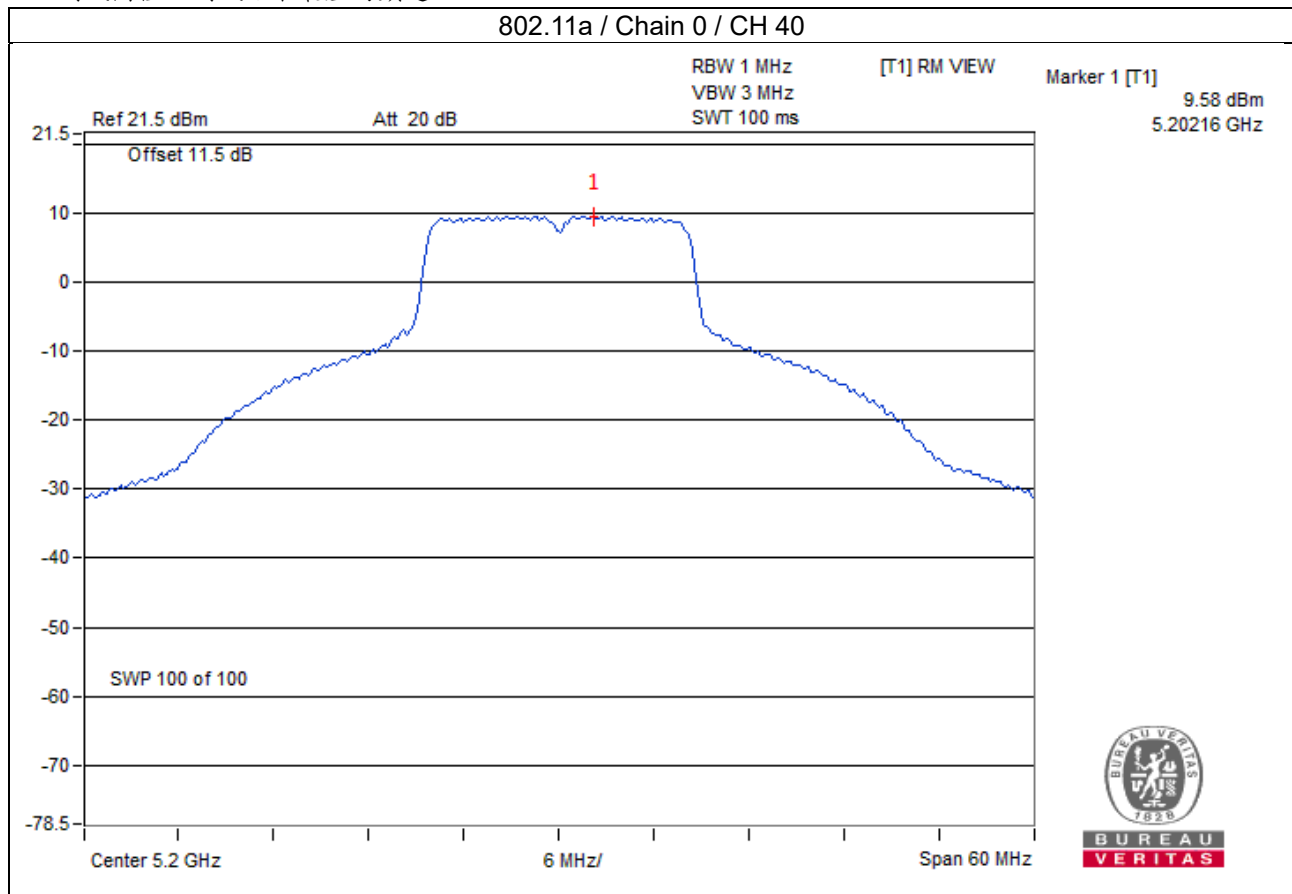
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 42    | 5210           | -3.58                         | -4.61   | 0.42                   | -0.63                                      | 14.54                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17-(8.46-6) = 14.54\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 149   | 5745        | 1.42                | 3.64         | 3.01            | 0.24             | 6.89                                    | 27.54              | Pass        |
|          | 157   | 5785        | 0.98                | 3.20         | 3.01            | 0.24             | 6.45                                    | 27.54              | Pass        |
|          | 165   | 5825        | 0.53                | 2.75         | 3.01            | 0.24             | 6.00                                    | 27.54              | Pass        |
| 1        | 149   | 5745        | 0.15                | 2.37         | 3.01            | 0.24             | 5.62                                    | 27.54              | Pass        |
|          | 157   | 5785        | -0.12               | 2.10         | 3.01            | 0.24             | 5.35                                    | 27.54              | Pass        |
|          | 165   | 5825        | -0.27               | 1.95         | 3.01            | 0.24             | 5.20                                    | 27.54              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(8.46-6) = 27.54\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 149   | 5745        | 0.27                | 2.49         | 3.01            | 0.19             | 5.69                                    | 27.54              | Pass        |
|          | 157   | 5785        | 0.24                | 2.46         | 3.01            | 0.19             | 5.66                                    | 27.54              | Pass        |
|          | 165   | 5825        | -0.49               | 1.73         | 3.01            | 0.19             | 4.93                                    | 27.54              | Pass        |
| 1        | 149   | 5745        | -1.11               | 1.11         | 3.01            | 0.19             | 4.31                                    | 27.54              | Pass        |
|          | 157   | 5785        | -1.35               | 0.87         | 3.01            | 0.19             | 4.07                                    | 27.54              | Pass        |
|          | 165   | 5825        | -1.27               | 0.95         | 3.01            | 0.19             | 4.15                                    | 27.54              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(8.46-6) = 27.54\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 151   | 5755        | -2.62               | -0.40        | 3.01            | 0.18             | 2.79                                    | 27.54              | Pass        |
|          | 159   | 5795        | -2.74               | -0.52        | 3.01            | 0.18             | 2.67                                    | 27.54              | Pass        |
| 1        | 151   | 5755        | -4.16               | -1.94        | 3.01            | 0.18             | 1.25                                    | 27.54              | Pass        |
|          | 159   | 5795        | -4.31               | -2.09        | 3.01            | 0.18             | 1.10                                    | 27.54              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (8.46 - 6) = 27.54\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

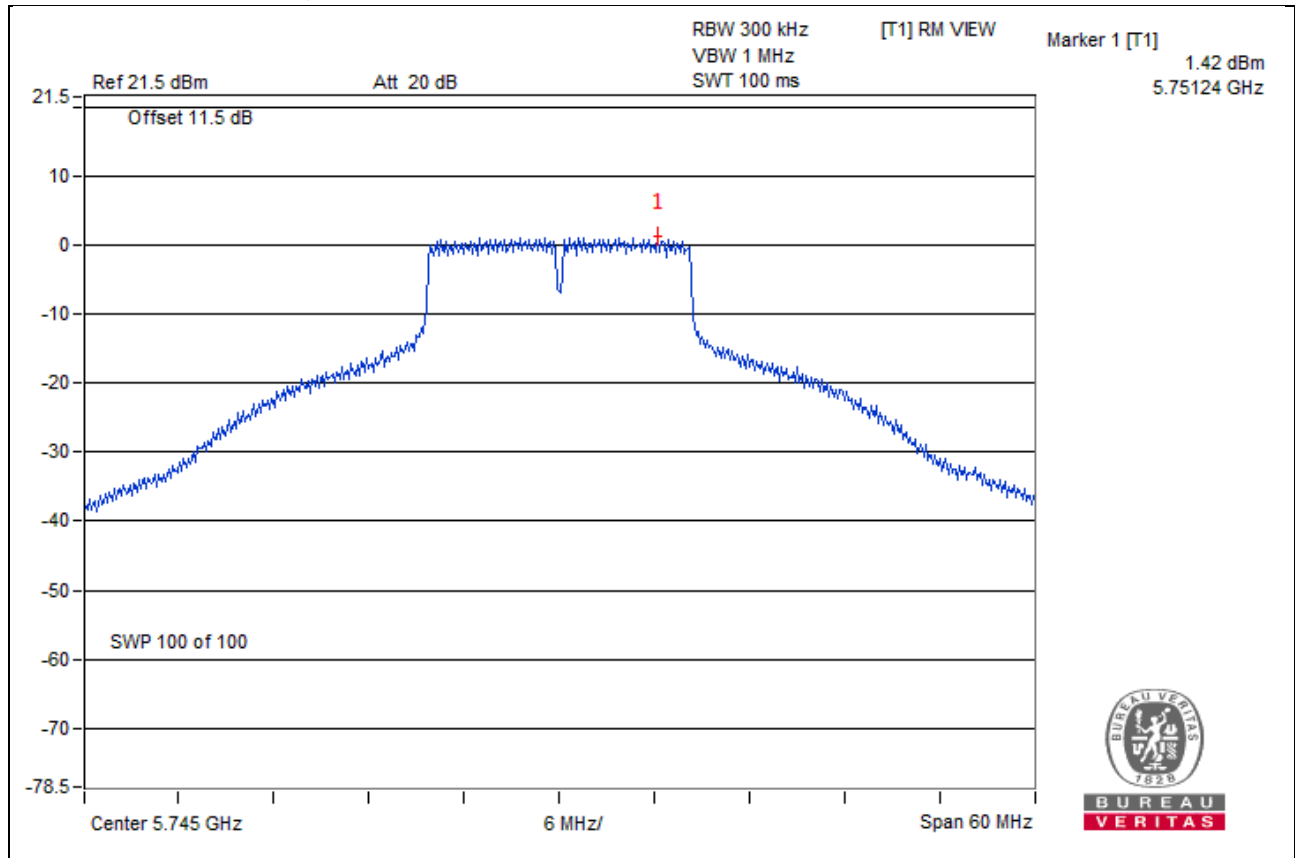
#### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 155   | 5775        | -7.82               | -5.60        | 3.01            | 0.42             | -2.17                                   | 27.54              | Pass        |
| 1        | 155   | 5775        | -10.66              | -8.44        | 3.01            | 0.42             | -5.01                                   | 27.54              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (8.46 - 6) = 27.54\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



# Test Mode E - AP43 (Internal antenna) + Eth8 Radio + POE

## 1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5745 ~ 5825MHz:

## 802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 1        | 149   | 5745        | -0.37               | 1.85         | 0.29             | 2.14                                    | 30.00              | Pass        |
|          | 157   | 5785        | -0.18               | 2.04         | 0.29             | 2.33                                    | 30.00              | Pass        |
|          | 165   | 5825        | -0.58               | 1.64         | 0.29             | 1.93                                    | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

## 802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 1        | 149   | 5745        | -1.51               | 0.71         | 0.10             | 0.81                                    | 30.00              | Pass        |
|          | 157   | 5785        | -1.48               | 0.74         | 0.10             | 0.84                                    | 30.00              | Pass        |
|          | 165   | 5825        | -1.82               | 0.40         | 0.10             | 0.50                                    | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

## 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 1        | 151   | 5755        | -3.30               | -1.08        | 0.17             | -0.91                                   | 30.00              | Pass        |
|          | 159   | 5795        | -4.01               | -1.79        | 0.17             | -1.62                                   | 30.00              | Pass        |

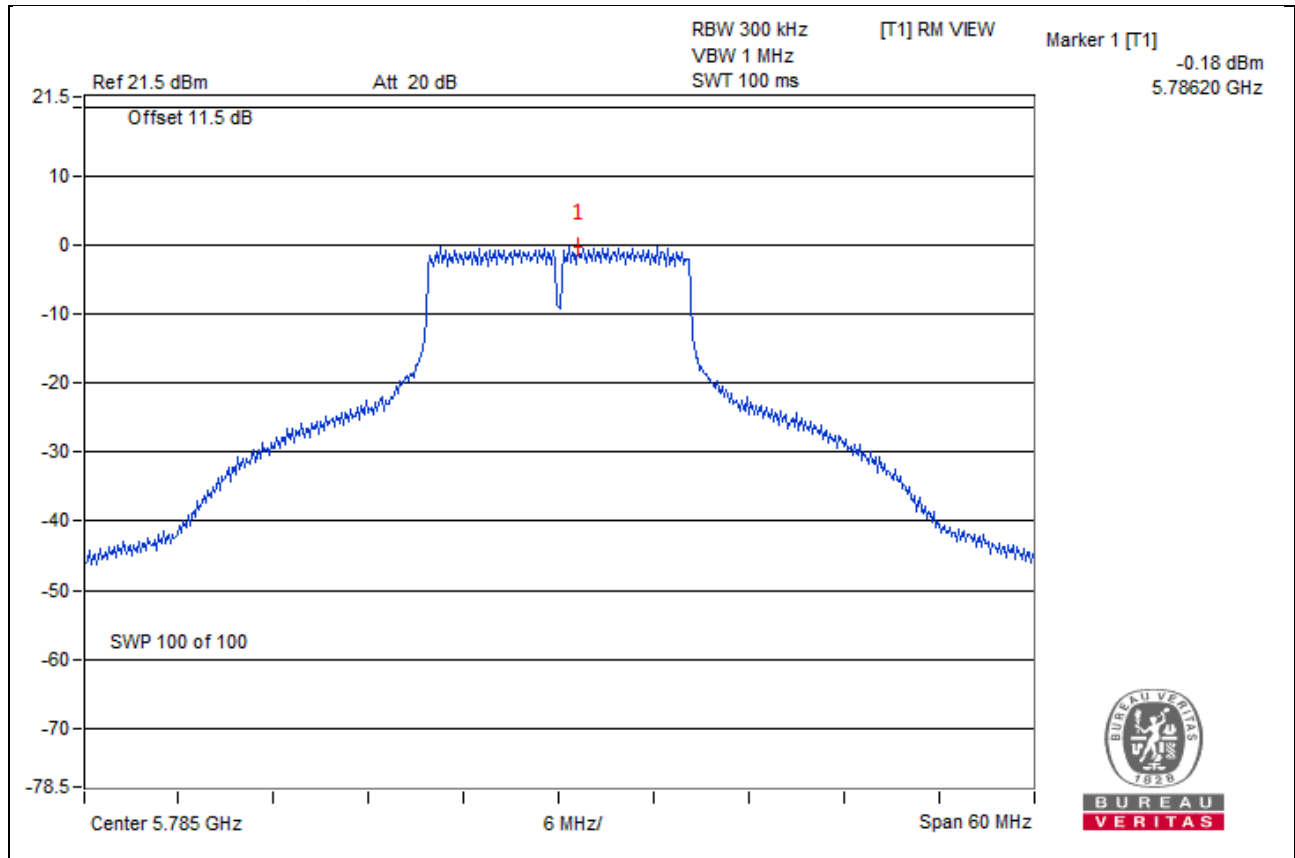
Note: Refer to section 2.1 for duty cycle spectrum plot.

## 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 1        | 155   | 5775        | -6.32               | -4.10        | 0.35             | -3.75                                   | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5745 ~ 5825MHz:

### 802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 149   | 5745        | -0.31               | 1.91         | 3.01            | 0.29             | 5.21                                    | 27.68               | Pass        |
|          | 157   | 5785        | 0.65                | 2.87         | 3.01            | 0.29             | 6.17                                    | 27.68               | Pass        |
|          | 165   | 5825        | -0.75               | 1.47         | 3.01            | 0.29             | 4.77                                    | 27.68               | Pass        |
| 2        | 149   | 5745        | -0.37               | 1.85         | 3.01            | 0.29             | 5.15                                    | 27.68               | Pass        |
|          | 157   | 5785        | -0.18               | 2.04         | 3.01            | 0.29             | 5.34                                    | 27.68               | Pass        |
|          | 165   | 5825        | -0.58               | 1.64         | 3.01            | 0.29             | 4.94                                    | 27.68               | Pass        |

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.32\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(8.32-6) = 27.68\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 149   | 5745        | -0.46               | 1.76         | 3.01            | 0.10             | 4.87                                    | 27.68               | Pass        |
|          | 157   | 5785        | -1.34               | 0.88         | 3.01            | 0.10             | 3.99                                    | 27.68               | Pass        |
|          | 165   | 5825        | -2.05               | 0.17         | 3.01            | 0.10             | 3.28                                    | 27.68               | Pass        |
| 2        | 149   | 5745        | -1.51               | 0.71         | 3.01            | 0.10             | 3.82                                    | 27.68               | Pass        |
|          | 157   | 5785        | -1.48               | 0.74         | 3.01            | 0.10             | 3.85                                    | 27.68               | Pass        |
|          | 165   | 5825        | -1.82               | 0.40         | 3.01            | 0.10             | 3.51                                    | 27.68               | Pass        |

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
- Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.32\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(8.32-6) = 27.68\text{dBm}$ .
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 151   | 5755        | -2.06               | 0.16         | 3.01            | 0.17             | 3.34                                    | 27.68               | Pass        |
|          | 159   | 5795        | -3.81               | -1.59        | 3.01            | 0.17             | 1.59                                    | 27.68               | Pass        |
| 2        | 151   | 5755        | -3.30               | -1.08        | 3.01            | 0.17             | 2.10                                    | 27.68               | Pass        |
|          | 159   | 5795        | -4.01               | -1.79        | 3.01            | 0.17             | 1.39                                    | 27.68               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.32\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (8.32 - 6) = 27.68\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

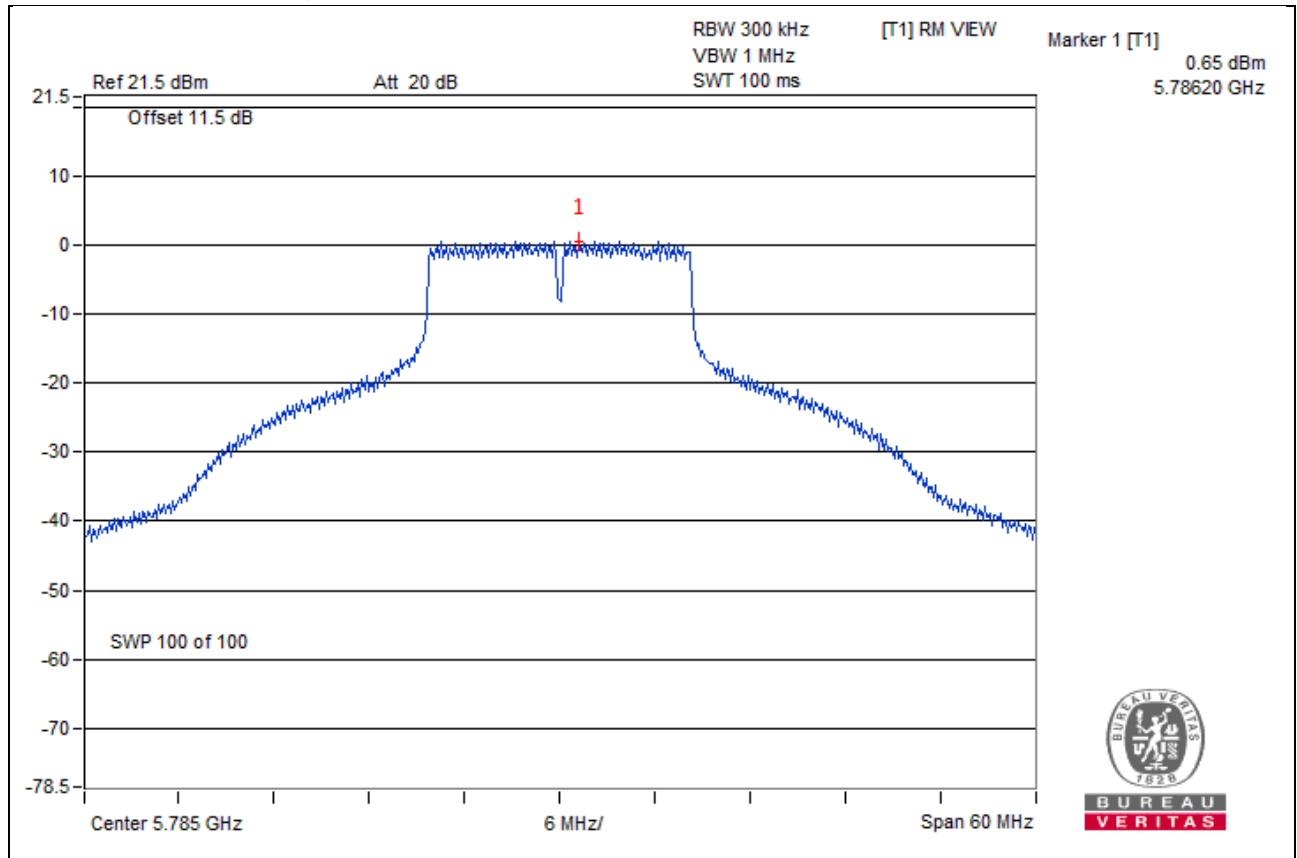
#### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 1        | 155   | 5775        | -7.55               | -5.33        | 3.01            | 0.35             | -1.97                                   | 27.68              | Pass        |
| 2        | 155   | 5775        | -8.26               | -6.04        | 3.01            | 0.35             | -2.68                                   | 27.68              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.32\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (8.32 - 6) = 27.68\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



### 3TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5745 ~ 5825MHz:

#### 802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 149   | 5745        | -0.31               | 1.91         | 4.77            | 0.29             | 6.97                                    | 26.25               | Pass        |
|          | 157   | 5785        | 0.65                | 2.87         | 4.77            | 0.29             | 7.93                                    | 26.25               | Pass        |
|          | 165   | 5825        | -0.75               | 1.47         | 4.77            | 0.29             | 6.53                                    | 26.25               | Pass        |
| 2        | 149   | 5745        | 0.92                | 3.14         | 4.77            | 0.29             | 8.20                                    | 26.25               | Pass        |
|          | 157   | 5785        | 0.92                | 3.14         | 4.77            | 0.29             | 8.20                                    | 26.25               | Pass        |
|          | 165   | 5825        | 0.52                | 2.74         | 4.77            | 0.29             | 7.80                                    | 26.25               | Pass        |
| 3        | 149   | 5745        | -0.37               | 1.85         | 4.77            | 0.29             | 6.91                                    | 26.25               | Pass        |
|          | 157   | 5785        | -0.18               | 2.04         | 4.77            | 0.29             | 7.10                                    | 26.25               | Pass        |
|          | 165   | 5825        | -0.58               | 1.64         | 4.77            | 0.29             | 6.70                                    | 26.25               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 9.75\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (9.75 - 6) = 26.25\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 149   | 5745        | -0.46               | 1.76         | 4.77            | 0.10             | 6.63                                    | 26.25               | Pass        |
|          | 157   | 5785        | -1.34               | 0.88         | 4.77            | 0.10             | 5.75                                    | 26.25               | Pass        |
|          | 165   | 5825        | -2.05               | 0.17         | 4.77            | 0.10             | 5.04                                    | 26.25               | Pass        |
| 2        | 149   | 5745        | -0.32               | 1.90         | 4.77            | 0.10             | 6.77                                    | 26.25               | Pass        |
|          | 157   | 5785        | -0.27               | 1.95         | 4.77            | 0.10             | 6.82                                    | 26.25               | Pass        |
|          | 165   | 5825        | -0.58               | 1.64         | 4.77            | 0.10             | 6.51                                    | 26.25               | Pass        |
| 3        | 149   | 5745        | -1.51               | 0.71         | 4.77            | 0.10             | 5.58                                    | 26.25               | Pass        |
|          | 157   | 5785        | -1.48               | 0.74         | 4.77            | 0.10             | 5.61                                    | 26.25               | Pass        |
|          | 165   | 5825        | -1.82               | 0.40         | 4.77            | 0.10             | 5.27                                    | 26.25               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 9.75\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (9.75 - 6) = 26.25\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 151   | 5755        | -2.06               | 0.16         | 4.77            | 0.17             | 5.10                                    | 26.25               | Pass        |
|          | 159   | 5795        | -3.81               | -1.59        | 4.77            | 0.17             | 3.35                                    | 26.25               | Pass        |
| 2        | 151   | 5755        | -2.78               | -0.56        | 4.77            | 0.17             | 4.38                                    | 26.25               | Pass        |
|          | 159   | 5795        | -3.56               | -1.34        | 4.77            | 0.17             | 3.60                                    | 26.25               | Pass        |
| 3        | 151   | 5755        | -3.30               | -1.08        | 4.77            | 0.17             | 3.86                                    | 26.25               | Pass        |
|          | 159   | 5795        | -4.01               | -1.79        | 4.77            | 0.17             | 3.15                                    | 26.25               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 9.75\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (9.75 - 6) = 26.25\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

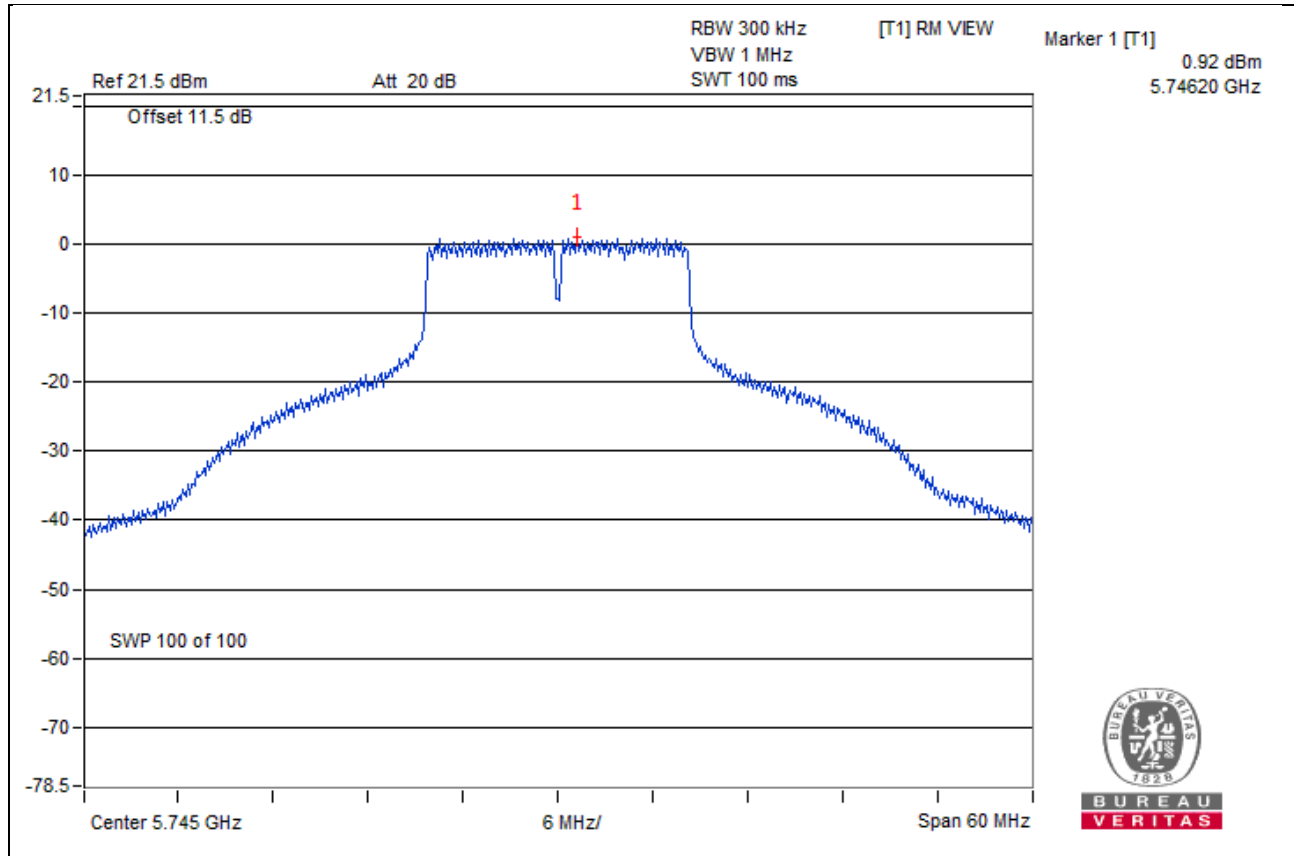
### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 1        | 155   | 5775        | -9.40               | -7.18        | 4.77            | 0.35             | -2.06                                   | 26.25              | Pass        |
| 2        | 155   | 5775        | -9.70               | -7.48        | 4.77            | 0.35             | -2.36                                   | 26.25              | Pass        |
| 3        | 155   | 5775        | -10.29              | -8.07        | 4.77            | 0.35             | -2.95                                   | 26.25              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 9.75\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (9.75 - 6) = 26.25\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



#### 4TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

For 5745 ~ 5825MHz

#### 802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -0.37               | 1.85         | 6.02            | 0.29             | 8.16                                    | 25.04               | Pass        |
|          | 157   | 5785        | -0.18               | 2.04         | 6.02            | 0.29             | 8.35                                    | 25.04               | Pass        |
|          | 165   | 5825        | -0.58               | 1.64         | 6.02            | 0.29             | 7.95                                    | 25.04               | Pass        |
| 1        | 149   | 5745        | -0.31               | 1.91         | 6.02            | 0.29             | 8.22                                    | 25.04               | Pass        |
|          | 157   | 5785        | 0.65                | 2.87         | 6.02            | 0.29             | 9.18                                    | 25.04               | Pass        |
|          | 165   | 5825        | -0.75               | 1.47         | 6.02            | 0.29             | 7.78                                    | 25.04               | Pass        |
| 2        | 149   | 5745        | 0.92                | 3.14         | 6.02            | 0.29             | 9.45                                    | 25.04               | Pass        |
|          | 157   | 5785        | 0.92                | 3.14         | 6.02            | 0.29             | 9.45                                    | 25.04               | Pass        |
|          | 165   | 5825        | 0.52                | 2.74         | 6.02            | 0.29             | 9.05                                    | 25.04               | Pass        |
| 3        | 149   | 5745        | 0.36                | 2.58         | 6.02            | 0.29             | 8.89                                    | 25.04               | Pass        |
|          | 157   | 5785        | 0.45                | 2.67         | 6.02            | 0.29             | 8.98                                    | 25.04               | Pass        |
|          | 165   | 5825        | 0.34                | 2.56         | 6.02            | 0.29             | 8.87                                    | 25.04               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (10.96 - 6) = 25.04\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

## 802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -1.51               | 0.71         | 6.02            | 0.10             | 6.83                                    | 25.04               | Pass        |
|          | 157   | 5785        | -1.48               | 0.74         | 6.02            | 0.10             | 6.86                                    | 25.04               | Pass        |
|          | 165   | 5825        | -1.82               | 0.40         | 6.02            | 0.10             | 6.52                                    | 25.04               | Pass        |
| 1        | 149   | 5745        | -0.46               | 1.76         | 6.02            | 0.10             | 7.88                                    | 25.04               | Pass        |
|          | 157   | 5785        | -1.34               | 0.88         | 6.02            | 0.10             | 7.00                                    | 25.04               | Pass        |
|          | 165   | 5825        | -2.05               | 0.17         | 6.02            | 0.10             | 6.29                                    | 25.04               | Pass        |
| 2        | 149   | 5745        | -0.32               | 1.90         | 6.02            | 0.10             | 8.02                                    | 25.04               | Pass        |
|          | 157   | 5785        | -0.27               | 1.95         | 6.02            | 0.10             | 8.07                                    | 25.04               | Pass        |
|          | 165   | 5825        | -0.58               | 1.64         | 6.02            | 0.10             | 7.76                                    | 25.04               | Pass        |
| 3        | 149   | 5745        | -0.71               | 1.51         | 6.02            | 0.10             | 7.63                                    | 25.04               | Pass        |
|          | 157   | 5785        | -0.60               | 1.62         | 6.02            | 0.10             | 7.74                                    | 25.04               | Pass        |
|          | 165   | 5825        | -0.80               | 1.42         | 6.02            | 0.10             | 7.54                                    | 25.04               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30-(10.96-6) = 25.04\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 151   | 5755        | -4.50               | -2.28        | 6.02            | 0.17             | 3.91                                    | 25.04              | Pass        |
|          | 159   | 5795        | -4.01               | -1.79        | 6.02            | 0.17             | 4.40                                    | 25.04              | Pass        |
| 1        | 151   | 5755        | -4.92               | -2.70        | 6.02            | 0.17             | 3.49                                    | 25.04              | Pass        |
|          | 159   | 5795        | -3.81               | -1.59        | 6.02            | 0.17             | 4.60                                    | 25.04              | Pass        |
| 2        | 151   | 5755        | -3.23               | -1.01        | 6.02            | 0.17             | 5.18                                    | 25.04              | Pass        |
|          | 159   | 5795        | -3.56               | -1.34        | 6.02            | 0.17             | 4.85                                    | 25.04              | Pass        |
| 3        | 151   | 5755        | -3.81               | -1.59        | 6.02            | 0.17             | 4.60                                    | 25.04              | Pass        |
|          | 159   | 5795        | -3.71               | -1.49        | 6.02            | 0.17             | 4.70                                    | 25.04              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (10.96 - 6) = 25.04\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

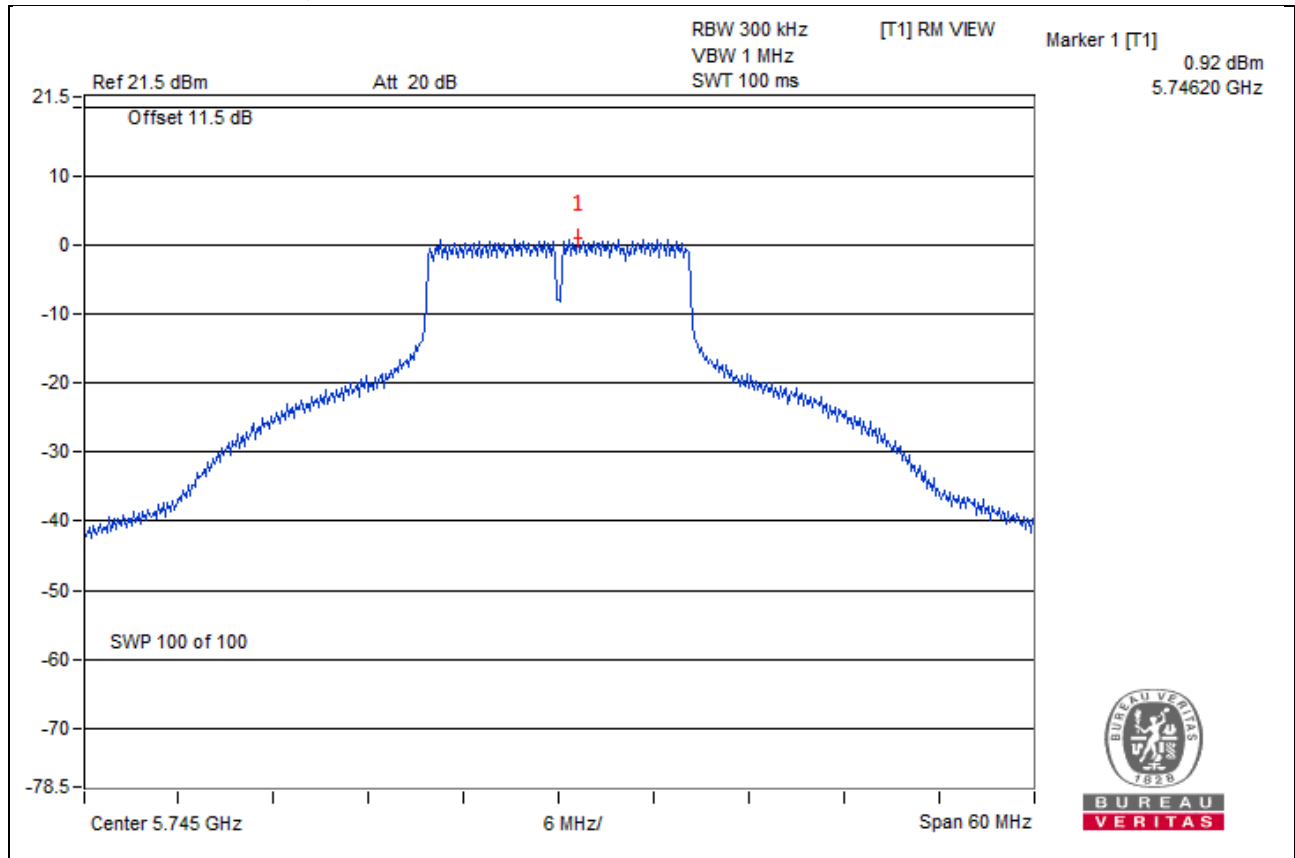
### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 155   | 5775        | -11.82              | -9.60        | 6.02            | 0.35             | -3.23                                   | 25.04              | Pass        |
| 1        | 155   | 5775        | -10.50              | -8.28        | 6.02            | 0.35             | -1.91                                   | 25.04              | Pass        |
| 2        | 155   | 5775        | -10.93              | -8.71        | 6.02            | 0.35             | -2.34                                   | 25.04              | Pass        |
| 3        | 155   | 5775        | -10.55              | -8.33        | 6.02            | 0.35             | -1.96                                   | 25.04              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (10.96 - 6) = 25.04\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



Test Mode G - AP43E (External antenna - PN: ATS-OO-245-46-4RPSP-36) + Eth6 Radio + POE

1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 1                          |                        |                                      |                         |             |
| 36    | 5180           | 4.80                             | 0.31                   | 5.11                                 | 17.00                   | Pass        |
| 40    | 5200           | 7.09                             | 0.31                   | 7.40                                 | 17.00                   | Pass        |
| 48    | 5240           | 5.33                             | 0.31                   | 5.64                                 | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 1                          |                        |                                      |                         |             |
| 36    | 5180           | 3.61                             | 0.23                   | 3.84                                 | 17.00                   | Pass        |
| 40    | 5200           | 6.80                             | 0.23                   | 7.03                                 | 17.00                   | Pass        |
| 48    | 5240           | 5.18                             | 0.23                   | 5.41                                 | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 1                          |                        |                                      |                         |             |
| 38    | 5190           | -1.03                            | 0.48                   | -0.55                                | 17.00                   | Pass        |
| 46    | 5230           | 2.78                             | 0.48                   | 3.26                                 | 17.00                   | Pass        |

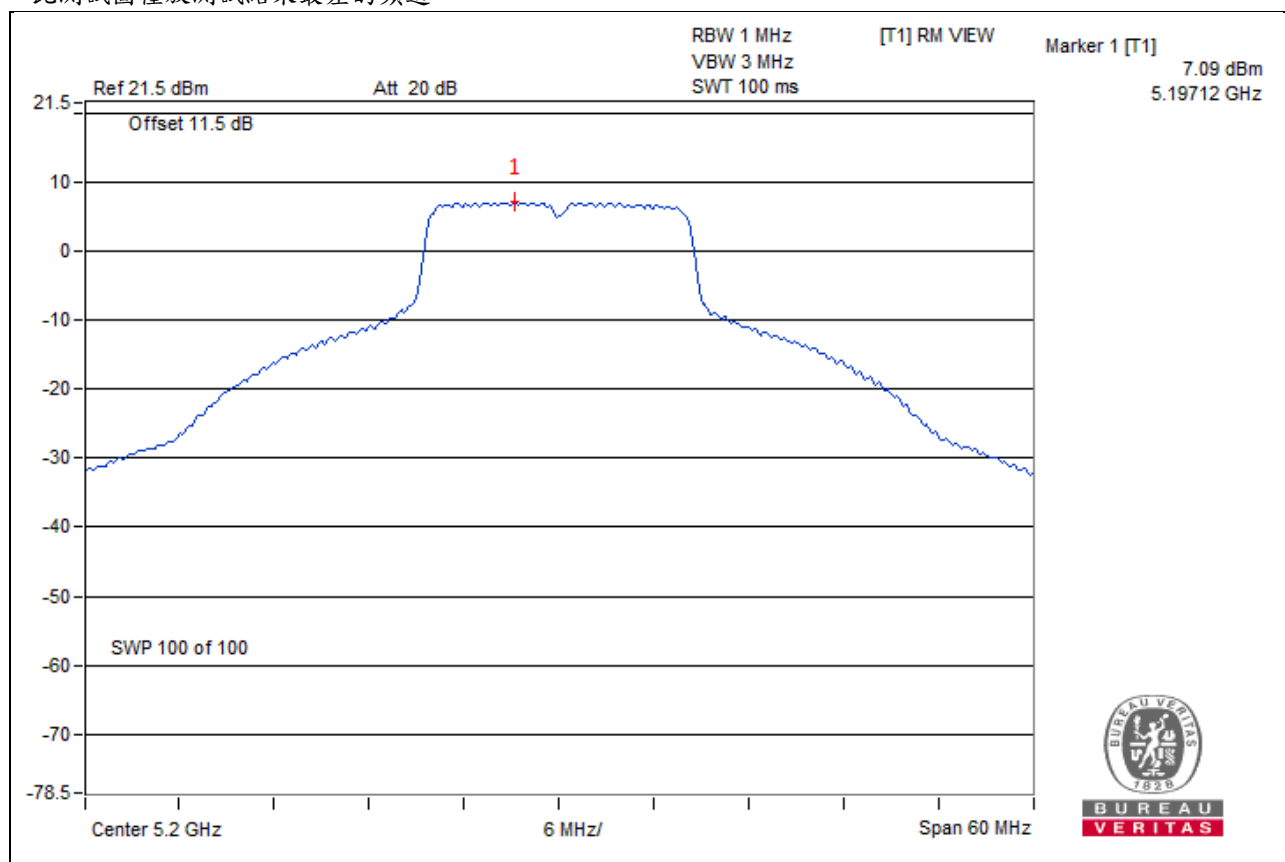
Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 1                          |                        |                                      |                         |             |
| 42    | 5210           | -3.76                            | 0.28                   | -3.48                                | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 1        | 149   | 5745        | -1.85               | 0.37         | 0.31             | 0.68                                    | 30.00              | Pass        |
|          | 157   | 5785        | -1.88               | 0.34         | 0.31             | 0.65                                    | 30.00              | Pass        |
|          | 165   | 5825        | -2.07               | 0.15         | 0.31             | 0.46                                    | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 1        | 149   | 5745        | -1.90               | 0.32         | 0.23             | 0.55                                    | 30.00              | Pass        |
|          | 157   | 5785        | -2.03               | 0.19         | 0.23             | 0.42                                    | 30.00              | Pass        |
|          | 165   | 5825        | -1.49               | 0.73         | 0.23             | 0.96                                    | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 1        | 151   | 5755        | -4.58               | -2.36        | 0.48             | -1.88                                   | 30.00              | Pass        |
|          | 159   | 5795        | -4.12               | -1.90        | 0.48             | -1.42                                   | 30.00              | Pass        |

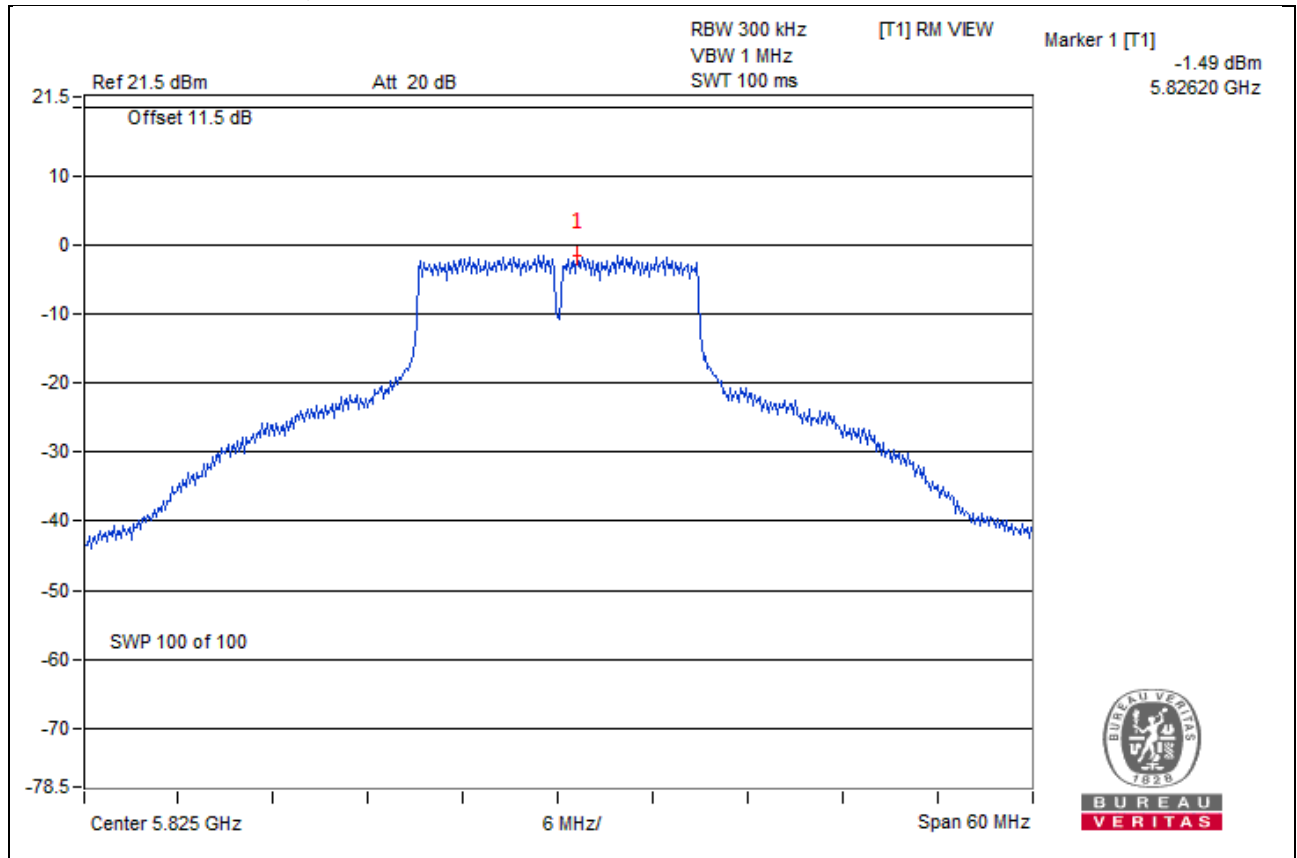
Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 1        | 155   | 5775        | -7.44               | -5.22        | 0.28             | -4.94                                   | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 1                       | Chain 2 |                        |                                            |                         |                |
| 36    | 5180           | 4.45                          | 3.98    | 0.31                   | 7.54                                       | 13.99                   | Pass           |
| 40    | 5200           | 7.15                          | 6.72    | 0.31                   | 10.26                                      | 13.99                   | Pass           |
| 48    | 5240           | 6.05                          | 5.83    | 0.31                   | 9.26                                       | 13.99                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 1                       | Chain 2 |                        |                                            |                         |                |
| 36    | 5180           | 3.43                          | 3.08    | 0.23                   | 6.50                                       | 13.99                   | Pass           |
| 40    | 5200           | 6.75                          | 6.38    | 0.23                   | 9.81                                       | 13.99                   | Pass           |
| 48    | 5240           | 5.70                          | 4.98    | 0.23                   | 8.60                                       | 13.99                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 1                       | Chain 2 |                        |                                            |                         |                |
| 38    | 5190           | -1.43                         | -2.06   | 0.48                   | 1.76                                       | 13.99                   | Pass           |
| 46    | 5230           | 2.71                          | 2.13    | 0.48                   | 5.92                                       | 13.99                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

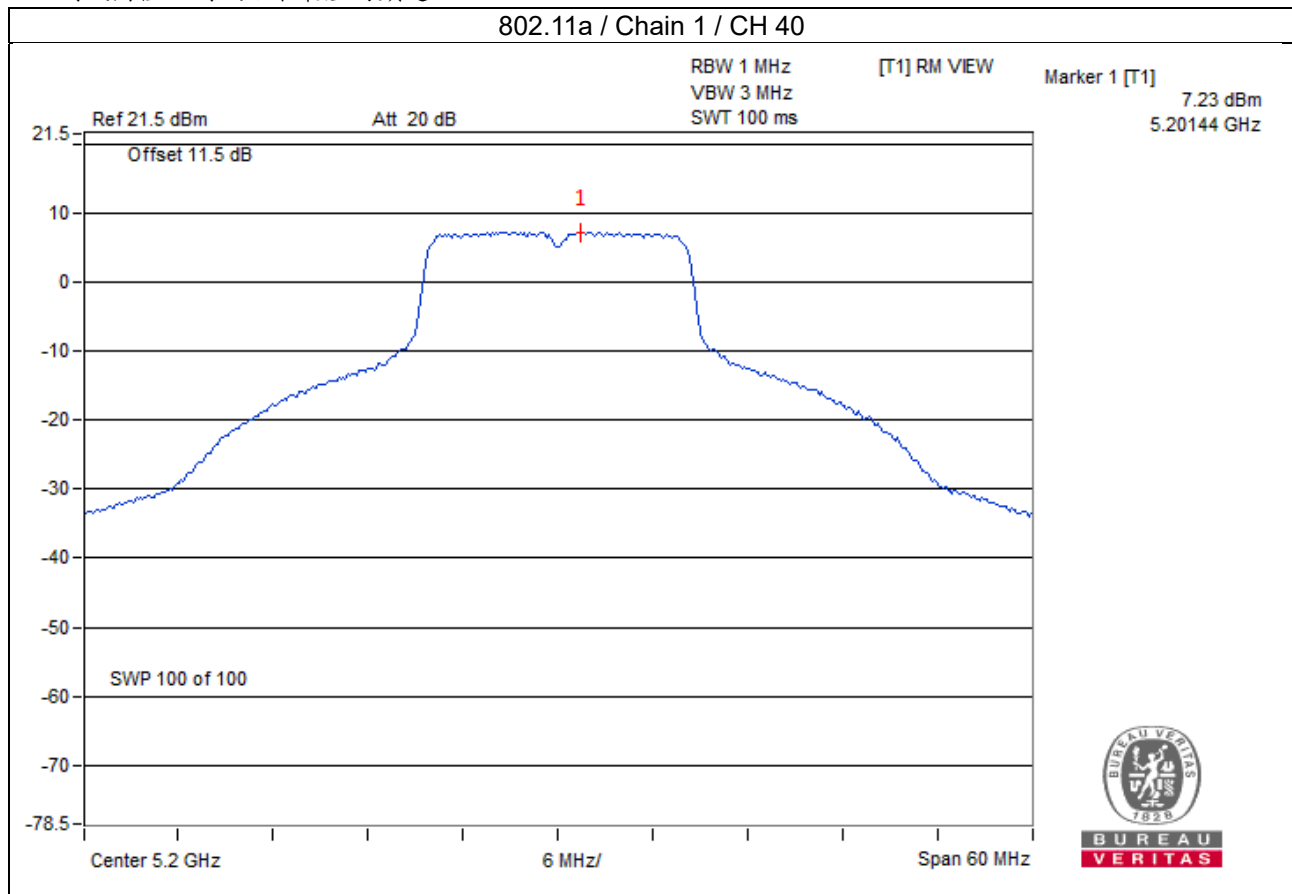
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 1                       | Chain 2 |                        |                                            |                         |                |
| 42    | 5210           | -3.53                         | -4.33   | 0.28                   | -0.62                                      | 13.99                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 149   | 5745        | -0.84               | 1.38         | 3.01            | 0.31             | 4.70                                    | 26.99               | Pass        |
|          | 157   | 5785        | -0.67               | 1.55         | 3.01            | 0.31             | 4.87                                    | 26.99               | Pass        |
|          | 165   | 5825        | -1.76               | 0.46         | 3.01            | 0.31             | 3.78                                    | 26.99               | Pass        |
| 2        | 149   | 5745        | -1.85               | 0.37         | 3.01            | 0.31             | 3.69                                    | 26.99               | Pass        |
|          | 157   | 5785        | -1.88               | 0.34         | 3.01            | 0.31             | 3.66                                    | 26.99               | Pass        |
|          | 165   | 5825        | -2.07               | 0.15         | 3.01            | 0.31             | 3.47                                    | 26.99               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 149   | 5745        | -1.16               | 1.06         | 3.01            | 0.23             | 4.30                                    | 26.99               | Pass        |
|          | 157   | 5785        | -1.00               | 1.22         | 3.01            | 0.23             | 4.46                                    | 26.99               | Pass        |
|          | 165   | 5825        | -1.55               | 0.67         | 3.01            | 0.23             | 3.91                                    | 26.99               | Pass        |
| 2        | 149   | 5745        | -1.90               | 0.32         | 3.01            | 0.23             | 3.56                                    | 26.99               | Pass        |
|          | 157   | 5785        | -2.03               | 0.19         | 3.01            | 0.23             | 3.43                                    | 26.99               | Pass        |
|          | 165   | 5825        | -1.49               | 0.73         | 3.01            | 0.23             | 3.97                                    | 26.99               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 1        | 151   | 5755        | -4.66               | -2.44        | 3.01            | 0.48             | 1.05                                    | 26.99               | Pass        |
|          | 159   | 5795        | -3.42               | -1.20        | 3.01            | 0.48             | 2.29                                    | 26.99               | Pass        |
| 2        | 151   | 5755        | -4.58               | -2.36        | 3.01            | 0.48             | 1.13                                    | 26.99               | Pass        |
|          | 159   | 5795        | -4.12               | -1.90        | 3.01            | 0.48             | 1.59                                    | 26.99               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

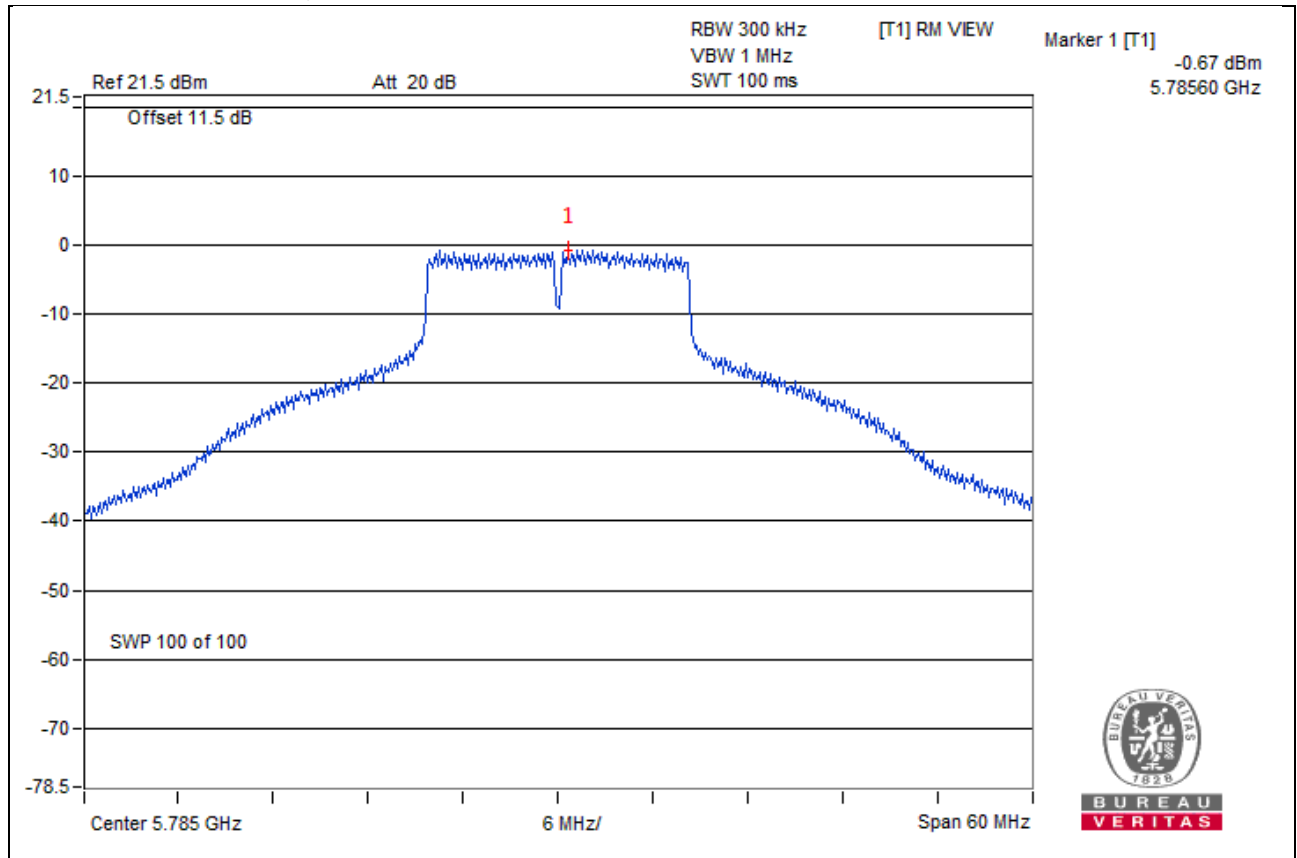
#### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 1        | 155   | 5775        | -10.38              | -8.16        | 3.01            | 0.28             | -4.87                                   | 26.99              | Pass        |
| 2        | 155   | 5775        | -10.78              | -8.56        | 3.01            | 0.28             | -5.27                                   | 26.99              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



### 3TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

#### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                                            |                         |                |
| 36    | 5180           | 2.32                          | 4.14    | 3.56    | 0.48                   | 8.66                                       | 12.23                   | Pass           |
| 40    | 5200           | 4.00                          | 4.98    | 5.21    | 0.48                   | 10.01                                      | 12.23                   | Pass           |
| 48    | 5240           | 3.35                          | 4.71    | 4.87    | 0.48                   | 9.61                                       | 12.23                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 6dBi + 10log(3) = 10.77dBi > 6dBi, so the power density limit shall be reduced to 17-(10.77-6) = 12.23dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                                            |                         |                |
| 36    | 5180           | 2.56                          | 3.02    | 2.32    | 0.29                   | 7.70                                       | 12.23                   | Pass           |
| 40    | 5200           | 5.29                          | 5.97    | 4.96    | 0.29                   | 10.49                                      | 12.23                   | Pass           |
| 48    | 5240           | 4.88                          | 5.36    | 4.82    | 0.29                   | 10.09                                      | 12.23                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 6dBi + 10log(3) = 10.77dBi > 6dBi, so the power density limit shall be reduced to 17-(10.77-6) = 12.23dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                                            |                         |                |
| 38    | 5190           | -2.66                         | -2.10   | -2.70   | 0.24                   | 2.53                                       | 12.23                   | Pass           |
| 46    | 5230           | 1.81                          | 2.49    | 1.45    | 0.24                   | 6.95                                       | 12.23                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $6\text{dBi} + 10\log(3) = 10.77\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (10.77 - 6) = 12.23\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

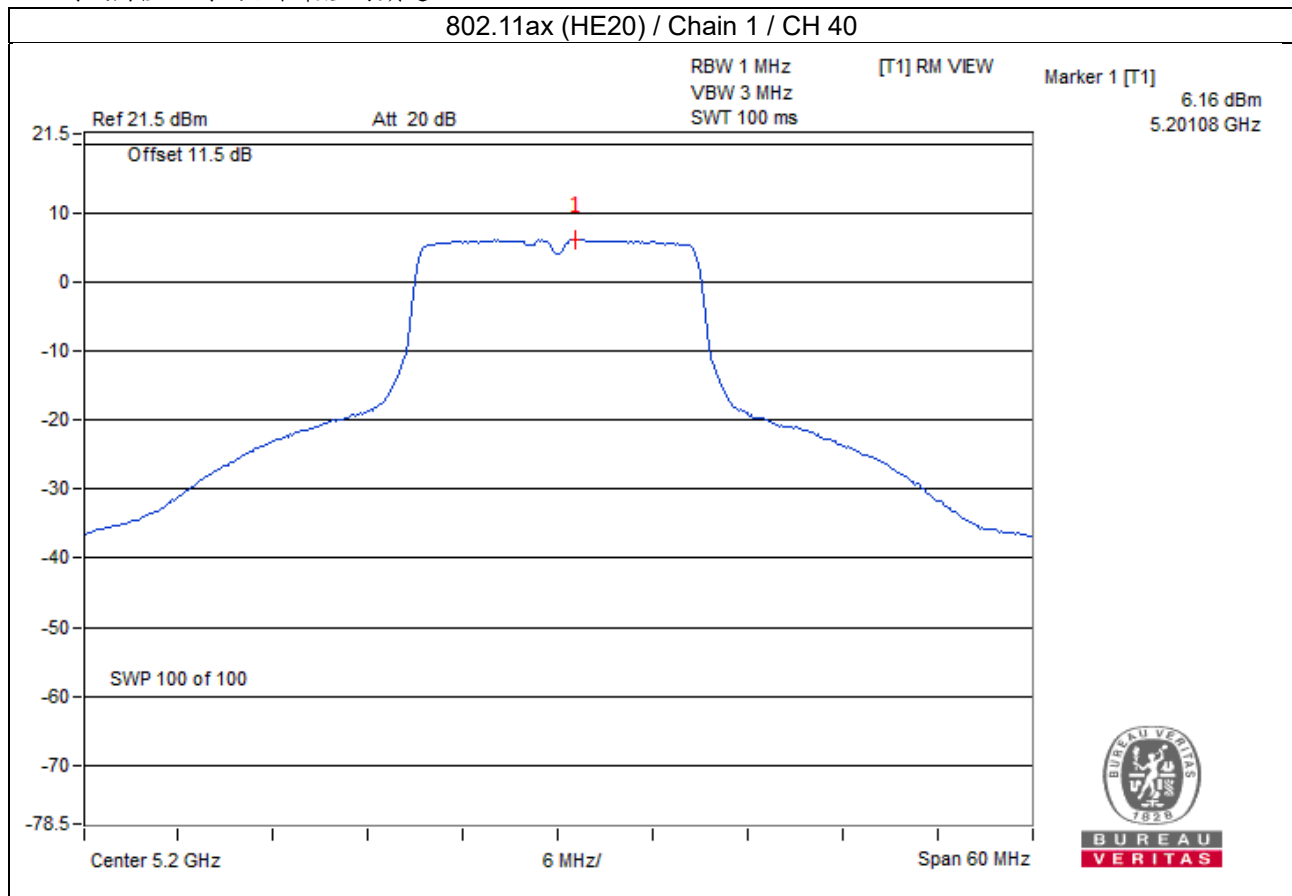
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                                            |                         |                |
| 42    | 5210           | -4.51                         | -3.68   | -4.88   | 0.33                   | 0.77                                       | 12.23                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $6\text{dBi} + 10\log(3) = 10.77\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (10.77 - 6) = 12.23\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -1.85               | 0.37         | 4.77            | 0.48             | 5.62                                    | 25.23               | Pass        |
|          | 157   | 5785        | -1.88               | 0.34         | 4.77            | 0.48             | 5.59                                    | 25.23               | Pass        |
|          | 165   | 5825        | -2.90               | -0.68        | 4.77            | 0.48             | 4.57                                    | 25.23               | Pass        |
| 1        | 149   | 5745        | -0.84               | 1.38         | 4.77            | 0.48             | 6.63                                    | 25.23               | Pass        |
|          | 157   | 5785        | -0.67               | 1.55         | 4.77            | 0.48             | 6.80                                    | 25.23               | Pass        |
|          | 165   | 5825        | -1.35               | 0.87         | 4.77            | 0.48             | 6.12                                    | 25.23               | Pass        |
| 2        | 149   | 5745        | -1.02               | 1.20         | 4.77            | 0.48             | 6.45                                    | 25.23               | Pass        |
|          | 157   | 5785        | -0.67               | 1.55         | 4.77            | 0.48             | 6.80                                    | 25.23               | Pass        |
|          | 165   | 5825        | -1.51               | 0.71         | 4.77            | 0.48             | 5.96                                    | 25.23               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(3) = 10.77dBi > 6dBi, so the power density limit shall be reduced to 30-(10.77-6) = 25.23dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -1.90               | 0.32         | 4.77            | 0.29             | 5.38                                    | 25.23               | Pass        |
|          | 157   | 5785        | -2.03               | 0.19         | 4.77            | 0.29             | 5.25                                    | 25.23               | Pass        |
|          | 165   | 5825        | -2.56               | -0.34        | 4.77            | 0.29             | 4.72                                    | 25.23               | Pass        |
| 1        | 149   | 5745        | -1.16               | 1.06         | 4.77            | 0.29             | 6.12                                    | 25.23               | Pass        |
|          | 157   | 5785        | -1.00               | 1.22         | 4.77            | 0.29             | 6.28                                    | 25.23               | Pass        |
|          | 165   | 5825        | -1.15               | 1.07         | 4.77            | 0.29             | 6.13                                    | 25.23               | Pass        |
| 2        | 149   | 5745        | -0.94               | 1.28         | 4.77            | 0.29             | 6.34                                    | 25.23               | Pass        |
|          | 157   | 5785        | -0.73               | 1.49         | 4.77            | 0.29             | 6.55                                    | 25.23               | Pass        |
|          | 165   | 5825        | -0.97               | 1.25         | 4.77            | 0.29             | 6.31                                    | 25.23               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(3) = 10.77dBi > 6dBi, so the power density limit shall be reduced to 30-(10.77-6) = 25.23dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 151   | 5755        | -4.58               | -2.36        | 4.77            | 0.24             | 2.65                                    | 25.23               | Pass        |
|          | 159   | 5795        | -5.50               | -3.28        | 4.77            | 0.24             | 1.73                                    | 25.23               | Pass        |
| 1        | 151   | 5755        | -4.69               | -2.47        | 4.77            | 0.24             | 2.54                                    | 25.23               | Pass        |
|          | 159   | 5795        | -5.12               | -2.90        | 4.77            | 0.24             | 2.11                                    | 25.23               | Pass        |
| 2        | 151   | 5755        | -5.10               | -2.88        | 4.77            | 0.24             | 2.13                                    | 25.23               | Pass        |
|          | 159   | 5795        | -5.60               | -3.38        | 4.77            | 0.24             | 1.63                                    | 25.23               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $6\text{dBi} + 10\log(3) = 10.77\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (10.77 - 6) = 25.23\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

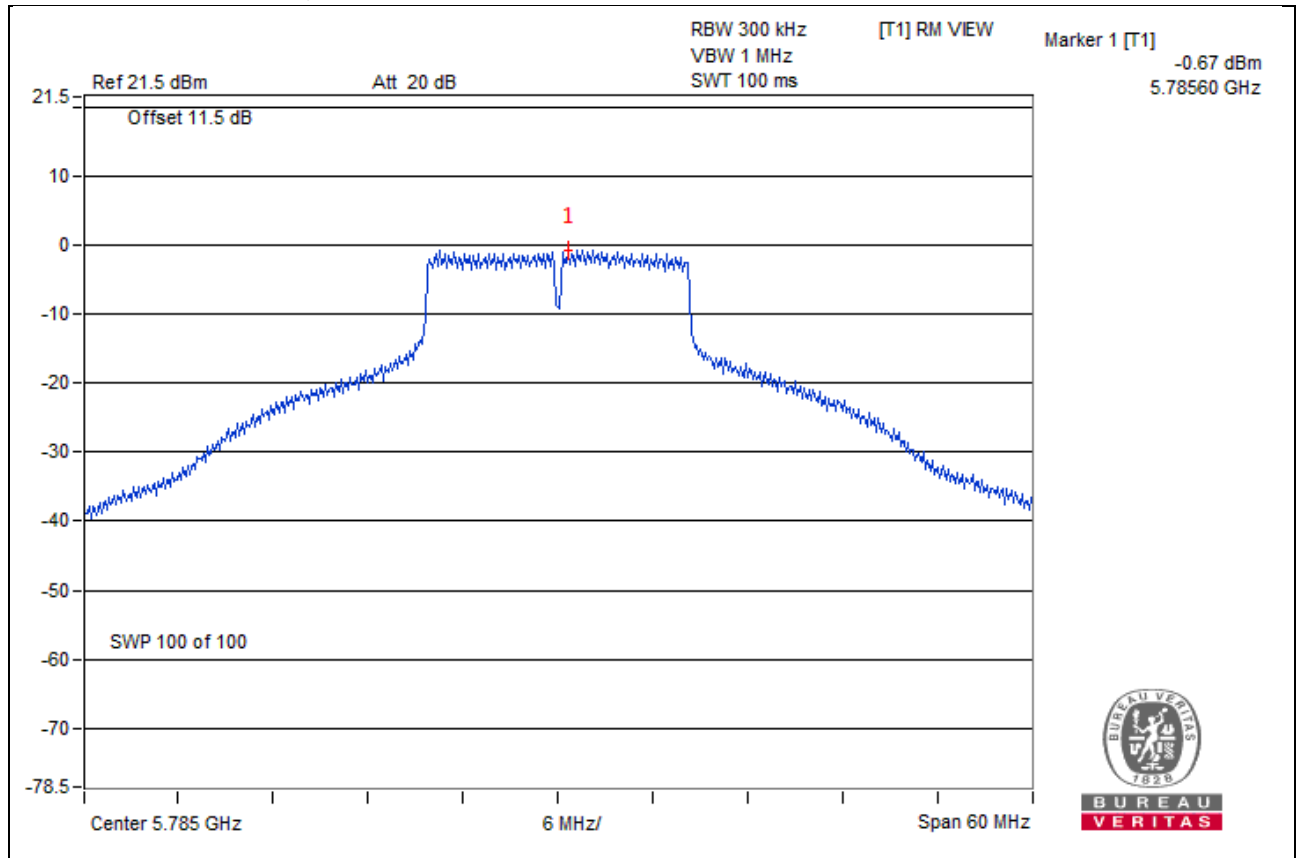
#### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 155   | 5775        | -13.15              | -10.93       | 4.77            | 0.33             | -5.83                                   | 25.23              | Pass        |
| 1        | 155   | 5775        | -11.20              | -8.98        | 4.77            | 0.33             | -3.88                                   | 25.23              | Pass        |
| 2        | 155   | 5775        | -12.86              | -10.64       | 4.77            | 0.33             | -5.54                                   | 25.23              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $6\text{dBi} + 10\log(3) = 10.77\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (10.77 - 6) = 25.23\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



#### 4TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

#### For 5180 ~ 5240MHz

##### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 36    | 5180           | 1.31                          | 3.01    | 1.46    | 1.83    | 0.48                   | 8.46                                       | 10.98                   | Pass           |
| 40    | 5200           | 2.96                          | 4.91    | 3.33    | 2.85    | 0.48                   | 10.10                                      | 10.98                   | Pass           |
| 48    | 5240           | 2.60                          | 4.39    | 2.91    | 3.18    | 0.48                   | 9.83                                       | 10.98                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 6dBi + 10log(4) = 12.02dBi > 6dBi, so the power density limit shall be reduced to 17-(12.02-6) = 10.98dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

##### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 36    | 5180           | 1.47                          | 2.52    | 1.55    | 1.60    | 0.29                   | 8.12                                       | 10.98                   | Pass           |
| 40    | 5200           | 3.48                          | 4.28    | 2.82    | 3.44    | 0.29                   | 9.85                                       | 10.98                   | Pass           |
| 48    | 5240           | 2.72                          | 3.90    | 3.00    | 2.95    | 0.29                   | 9.48                                       | 10.98                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 6dBi + 10log(4) = 12.02dBi > 6dBi, so the power density limit shall be reduced to 17-(12.02-6) = 10.98dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 38    | 5190           | -3.54                         | -2.32   | -3.93   | -3.98   | 0.24                   | 2.87                                       | 10.98                   | Pass           |
| 46    | 5230           | 0.63                          | 1.52    | 1.34    | 0.80    | 0.24                   | 7.35                                       | 10.98                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (12.02 - 6) = 10.98\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

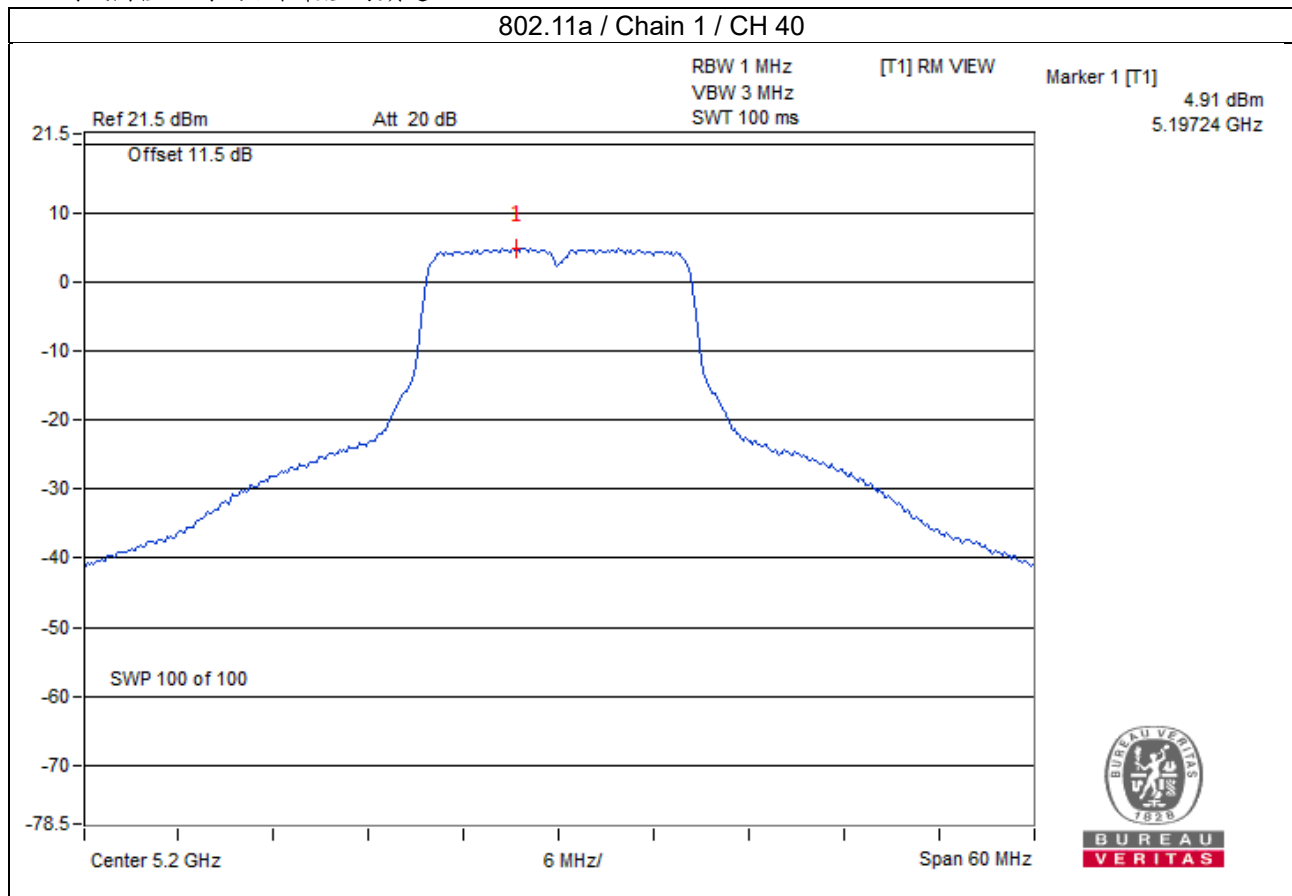
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 42    | 5210           | -6.93                         | -5.85   | -6.55   | -6.97   | 0.33                   | -0.20                                      | 10.98                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (12.02 - 6) = 10.98\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -1.32               | 0.90         | 6.02            | 0.48             | 7.40                                    | 23.98               | Pass        |
|          | 157   | 5785        | -1.59               | 0.63         | 6.02            | 0.48             | 7.13                                    | 23.98               | Pass        |
|          | 165   | 5825        | -1.29               | 0.93         | 6.02            | 0.48             | 7.43                                    | 23.98               | Pass        |
| 1        | 149   | 5745        | -1.26               | 0.96         | 6.02            | 0.48             | 7.46                                    | 23.98               | Pass        |
|          | 157   | 5785        | -1.41               | 0.81         | 6.02            | 0.48             | 7.31                                    | 23.98               | Pass        |
|          | 165   | 5825        | -1.36               | 0.86         | 6.02            | 0.48             | 7.36                                    | 23.98               | Pass        |
| 2        | 149   | 5745        | -1.33               | 0.89         | 6.02            | 0.48             | 7.39                                    | 23.98               | Pass        |
|          | 157   | 5785        | -1.07               | 1.15         | 6.02            | 0.48             | 7.65                                    | 23.98               | Pass        |
|          | 165   | 5825        | -1.04               | 1.18         | 6.02            | 0.48             | 7.68                                    | 23.98               | Pass        |
| 3        | 149   | 5745        | -1.30               | 0.92         | 6.02            | 0.48             | 7.42                                    | 23.98               | Pass        |
|          | 157   | 5785        | -1.52               | 0.70         | 6.02            | 0.48             | 7.20                                    | 23.98               | Pass        |
|          | 165   | 5825        | -1.56               | 0.66         | 6.02            | 0.48             | 7.16                                    | 23.98               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (12.02 - 6) = 23.98\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

## 802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -2.54               | -0.32        | 6.02            | 0.29             | 5.99                                    | 23.98               | Pass        |
|          | 157   | 5785        | -2.49               | -0.27        | 6.02            | 0.29             | 6.04                                    | 23.98               | Pass        |
|          | 165   | 5825        | -2.47               | -0.25        | 6.02            | 0.29             | 6.06                                    | 23.98               | Pass        |
| 1        | 149   | 5745        | -2.46               | -0.24        | 6.02            | 0.29             | 6.07                                    | 23.98               | Pass        |
|          | 157   | 5785        | -2.78               | -0.56        | 6.02            | 0.29             | 5.75                                    | 23.98               | Pass        |
|          | 165   | 5825        | -2.76               | -0.54        | 6.02            | 0.29             | 5.77                                    | 23.98               | Pass        |
| 2        | 149   | 5745        | -2.72               | -0.50        | 6.02            | 0.29             | 5.81                                    | 23.98               | Pass        |
|          | 157   | 5785        | -2.77               | -0.55        | 6.02            | 0.29             | 5.76                                    | 23.98               | Pass        |
|          | 165   | 5825        | -2.29               | -0.07        | 6.02            | 0.29             | 6.24                                    | 23.98               | Pass        |
| 3        | 149   | 5745        | -2.29               | -0.07        | 6.02            | 0.29             | 6.24                                    | 23.98               | Pass        |
|          | 157   | 5785        | -2.71               | -0.49        | 6.02            | 0.29             | 5.82                                    | 23.98               | Pass        |
|          | 165   | 5825        | -2.63               | -0.41        | 6.02            | 0.29             | 5.90                                    | 23.98               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (12.02 - 6) = 23.98\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 151   | 5755        | -4.74               | -2.52        | 6.02            | 0.24             | 3.74                                    | 23.98              | Pass        |
|          | 159   | 5795        | -4.71               | -2.49        | 6.02            | 0.24             | 3.77                                    | 23.98              | Pass        |
| 1        | 151   | 5755        | -5.56               | -3.34        | 6.02            | 0.24             | 2.92                                    | 23.98              | Pass        |
|          | 159   | 5795        | -5.86               | -3.64        | 6.02            | 0.24             | 2.62                                    | 23.98              | Pass        |
| 2        | 151   | 5755        | -5.94               | -3.72        | 6.02            | 0.24             | 2.54                                    | 23.98              | Pass        |
|          | 159   | 5795        | -6.04               | -3.82        | 6.02            | 0.24             | 2.44                                    | 23.98              | Pass        |
| 3        | 151   | 5755        | -4.54               | -2.32        | 6.02            | 0.24             | 3.94                                    | 23.98              | Pass        |
|          | 159   | 5795        | -5.21               | -2.99        | 6.02            | 0.24             | 3.27                                    | 23.98              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(4) = 12.02dBi > 6dBi, so the power density limit shall be reduced to 30-(12.02-6) = 23.98dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

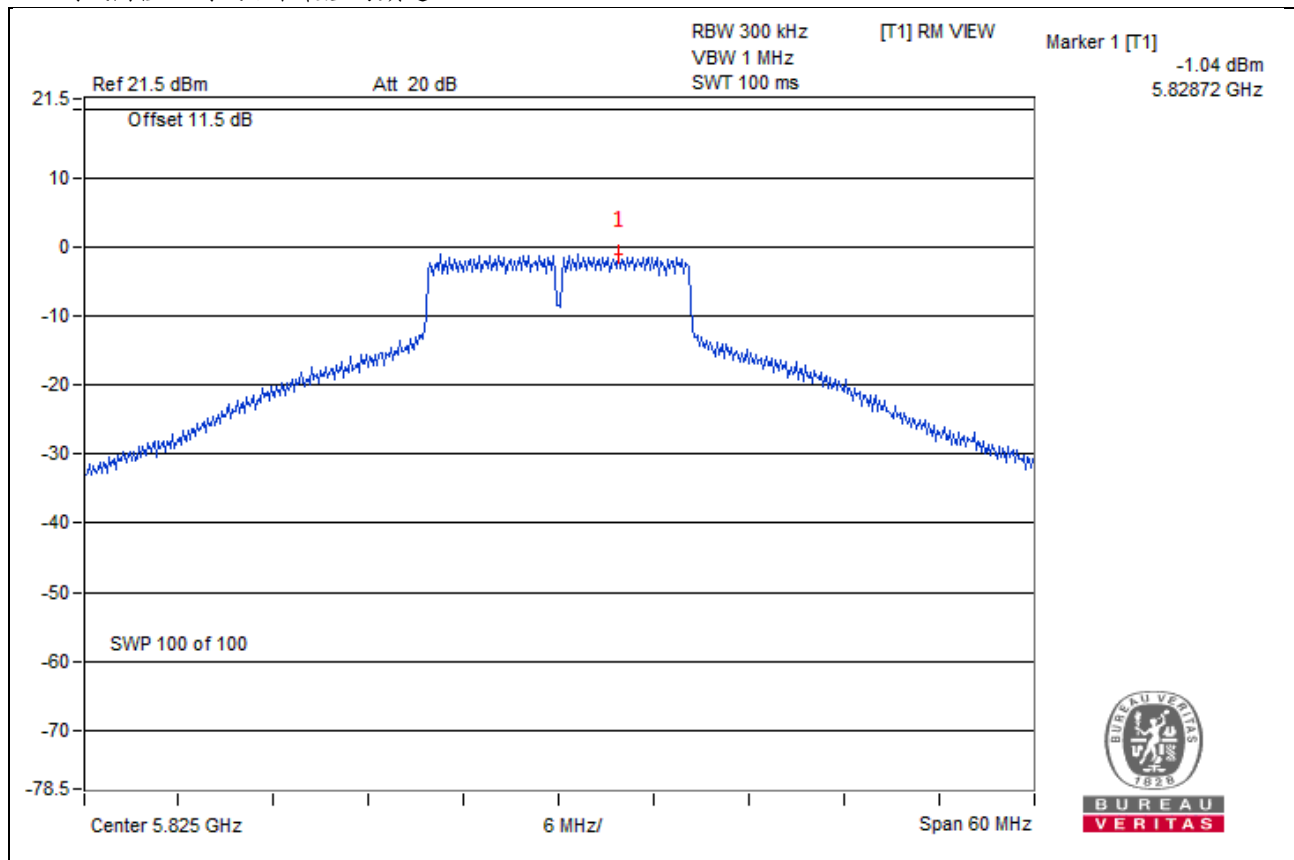
### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 155   | 5775        | -12.45              | -10.23       | 6.02            | 0.33             | -3.88                                   | 23.98              | Pass        |
| 1        | 155   | 5775        | -12.30              | -10.08       | 6.02            | 0.33             | -3.73                                   | 23.98              | Pass        |
| 2        | 155   | 5775        | -13.17              | -10.95       | 6.02            | 0.33             | -4.60                                   | 23.98              | Pass        |
| 3        | 155   | 5775        | -8.05               | -5.83        | 6.02            | 0.33             | 0.52                                    | 23.98              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(4) = 12.02dBi > 6dBi, so the power density limit shall be reduced to 30-(12.02-6) = 23.98dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



Test Mode I - AP43E (External antenna - PN: ATS-OO-245-46-4RPSP-36) + Eth7 Radio + POE

1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 36    | 5180           | 7.65                             | 0.24                   | 7.89                                 | 17.00                   | Pass        |
| 40    | 5200           | 9.58                             | 0.24                   | 9.82                                 | 17.00                   | Pass        |
| 48    | 5240           | 7.62                             | 0.24                   | 7.86                                 | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 36    | 5180           | 6.31                             | 0.19                   | 6.50                                 | 17.00                   | Pass        |
| 40    | 5200           | 8.31                             | 0.19                   | 8.50                                 | 17.00                   | Pass        |
| 48    | 5240           | 6.81                             | 0.19                   | 7.00                                 | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 38    | 5190           | 1.52                             | 0.18                   | 1.70                                 | 17.00                   | Pass        |
| 46    | 5230           | 5.11                             | 0.18                   | 5.29                                 | 17.00                   | Pass        |

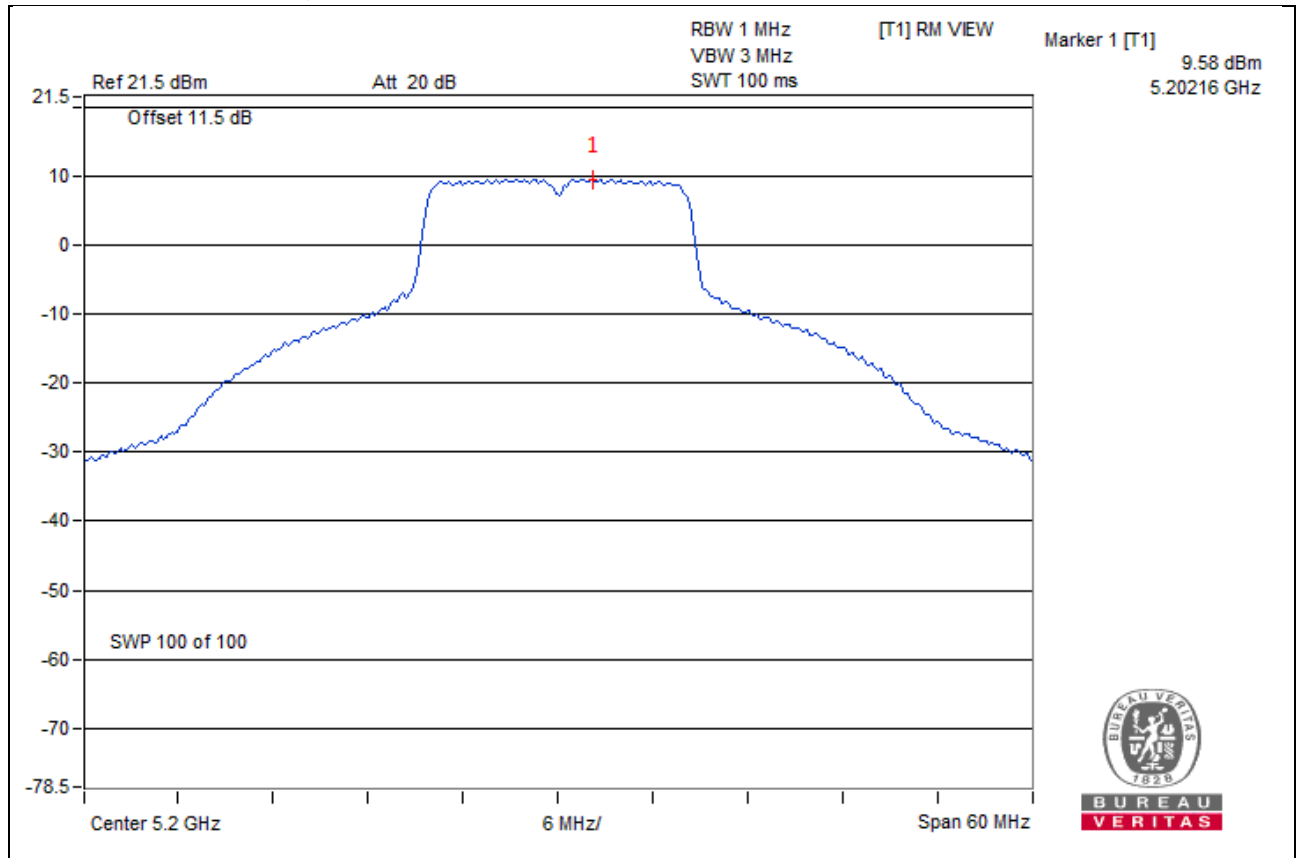
Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 42    | 5210           | -1.00                            | 0.42                   | -0.58                                | 17.00                   | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 149   | 5745        | 1.42                | 3.64         | 0.24             | 3.88                                    | 30.00              | Pass        |
|          | 157   | 5785        | 0.98                | 3.20         | 0.24             | 3.44                                    | 30.00              | Pass        |
|          | 165   | 5825        | 0.53                | 2.75         | 0.24             | 2.99                                    | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 149   | 5745        | 0.27                | 2.49         | 0.19             | 2.68                                    | 30.00              | Pass        |
|          | 157   | 5785        | 0.24                | 2.46         | 0.19             | 2.65                                    | 30.00              | Pass        |
|          | 165   | 5825        | -0.49               | 1.73         | 0.19             | 1.92                                    | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 151   | 5755        | -2.62               | -0.40        | 0.18             | -0.22                                   | 30.00              | Pass        |
|          | 159   | 5795        | -2.74               | -0.52        | 0.18             | -0.34                                   | 30.00              | Pass        |

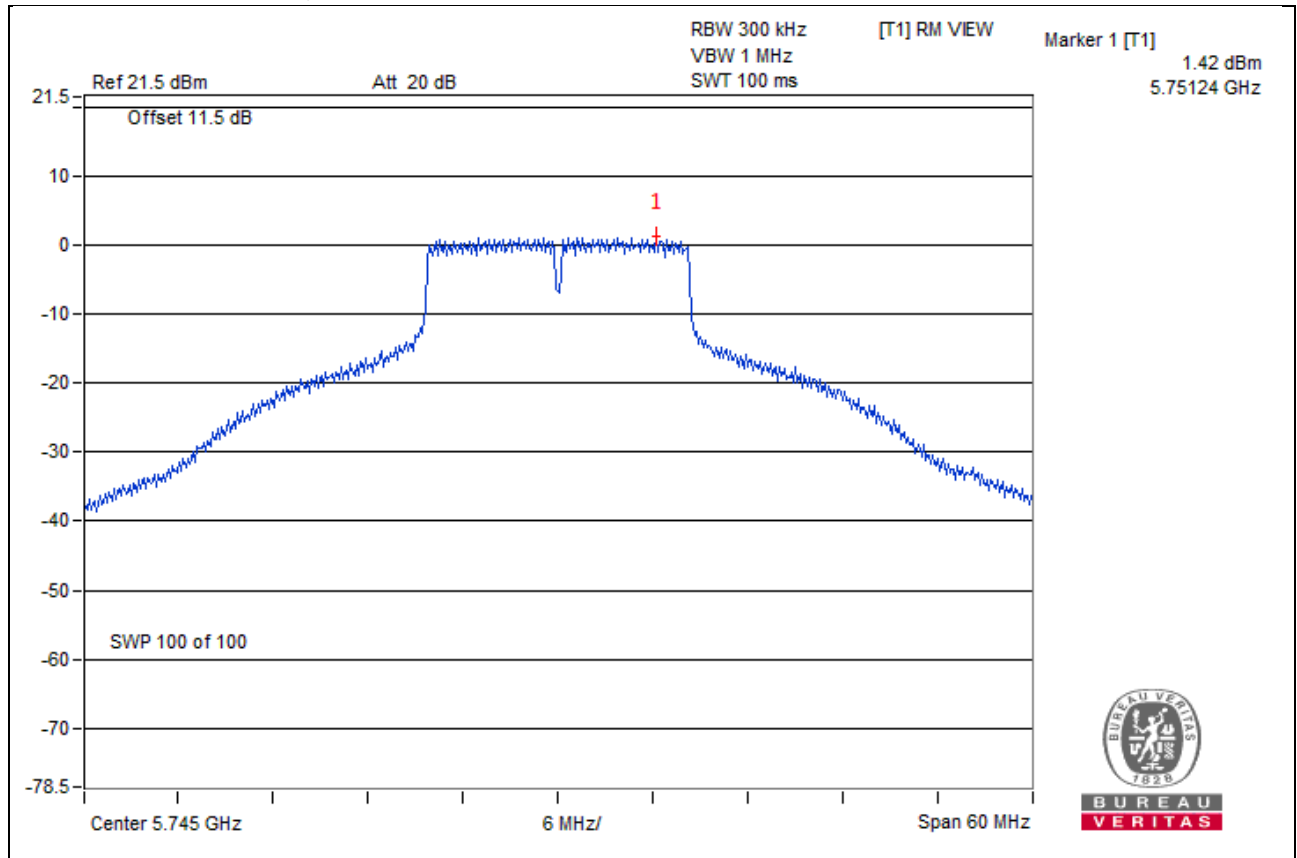
Note: Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 155   | 5775        | -6.61               | -4.39        | 0.42             | -3.97                                   | 30.00              | Pass        |

Note: Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

### For 5180 ~ 5240MHz

#### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 36    | 5180           | 5.09                          | 3.25    | 0.24                   | 7.52                                       | 13.99                   | Pass           |
| 40    | 5200           | 9.51                          | 7.79    | 0.24                   | 11.98                                      | 13.99                   | Pass           |
| 48    | 5240           | 5.87                          | 3.19    | 0.24                   | 7.98                                       | 13.99                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 36    | 5180           | 4.49                          | 3.00    | 0.19                   | 7.01                                       | 13.99                   | Pass           |
| 40    | 5200           | 8.31                          | 6.58    | 0.19                   | 10.73                                      | 13.99                   | Pass           |
| 48    | 5240           | 4.92                          | 2.34    | 0.19                   | 7.02                                       | 13.99                   | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 38    | 5190           | -0.41                         | -2.00   | 0.18                   | 2.06                                       | 13.99                   | Pass           |
| 46    | 5230           | 3.65                          | 1.91    | 0.18                   | 6.06                                       | 13.99                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

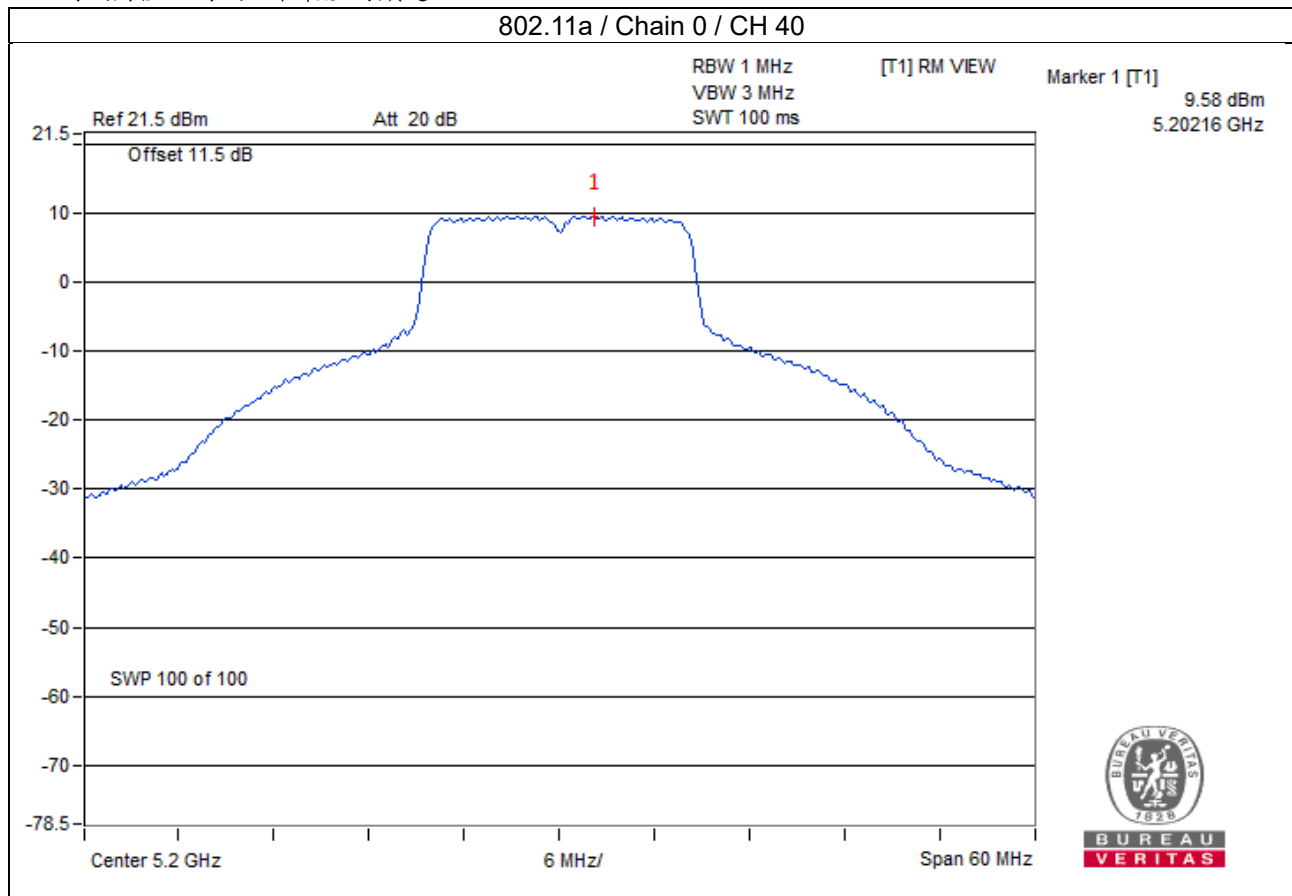
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 42    | 5210           | -3.58                         | -4.61   | 0.42                   | -0.63                                      | 13.99                   | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 17-(9.01-6) = 13.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 149   | 5745        | 1.42                | 3.64         | 3.01            | 0.24             | 6.89                                    | 26.99              | Pass        |
|          | 157   | 5785        | 0.98                | 3.20         | 3.01            | 0.24             | 6.45                                    | 26.99              | Pass        |
|          | 165   | 5825        | 0.53                | 2.75         | 3.01            | 0.24             | 6.00                                    | 26.99              | Pass        |
| 1        | 149   | 5745        | 0.15                | 2.37         | 3.01            | 0.24             | 5.62                                    | 26.99              | Pass        |
|          | 157   | 5785        | -0.12               | 2.10         | 3.01            | 0.24             | 5.35                                    | 26.99              | Pass        |
|          | 165   | 5825        | -0.27               | 1.95         | 3.01            | 0.24             | 5.20                                    | 26.99              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 149   | 5745        | 0.27                | 2.49         | 3.01            | 0.19             | 5.69                                    | 26.99              | Pass        |
|          | 157   | 5785        | 0.24                | 2.46         | 3.01            | 0.19             | 5.66                                    | 26.99              | Pass        |
|          | 165   | 5825        | -0.49               | 1.73         | 3.01            | 0.19             | 4.93                                    | 26.99              | Pass        |
| 1        | 149   | 5745        | -1.11               | 1.11         | 3.01            | 0.19             | 4.31                                    | 26.99              | Pass        |
|          | 157   | 5785        | -1.35               | 0.87         | 3.01            | 0.19             | 4.07                                    | 26.99              | Pass        |
|          | 165   | 5825        | -1.27               | 0.95         | 3.01            | 0.19             | 4.15                                    | 26.99              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 151   | 5755        | -2.62               | -0.40        | 3.01            | 0.18             | 2.79                                    | 26.99              | Pass        |
|          | 159   | 5795        | -2.74               | -0.52        | 3.01            | 0.18             | 2.67                                    | 26.99              | Pass        |
| 1        | 151   | 5755        | -4.16               | -1.94        | 3.01            | 0.18             | 1.25                                    | 26.99              | Pass        |
|          | 159   | 5795        | -4.31               | -2.09        | 3.01            | 0.18             | 1.10                                    | 26.99              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

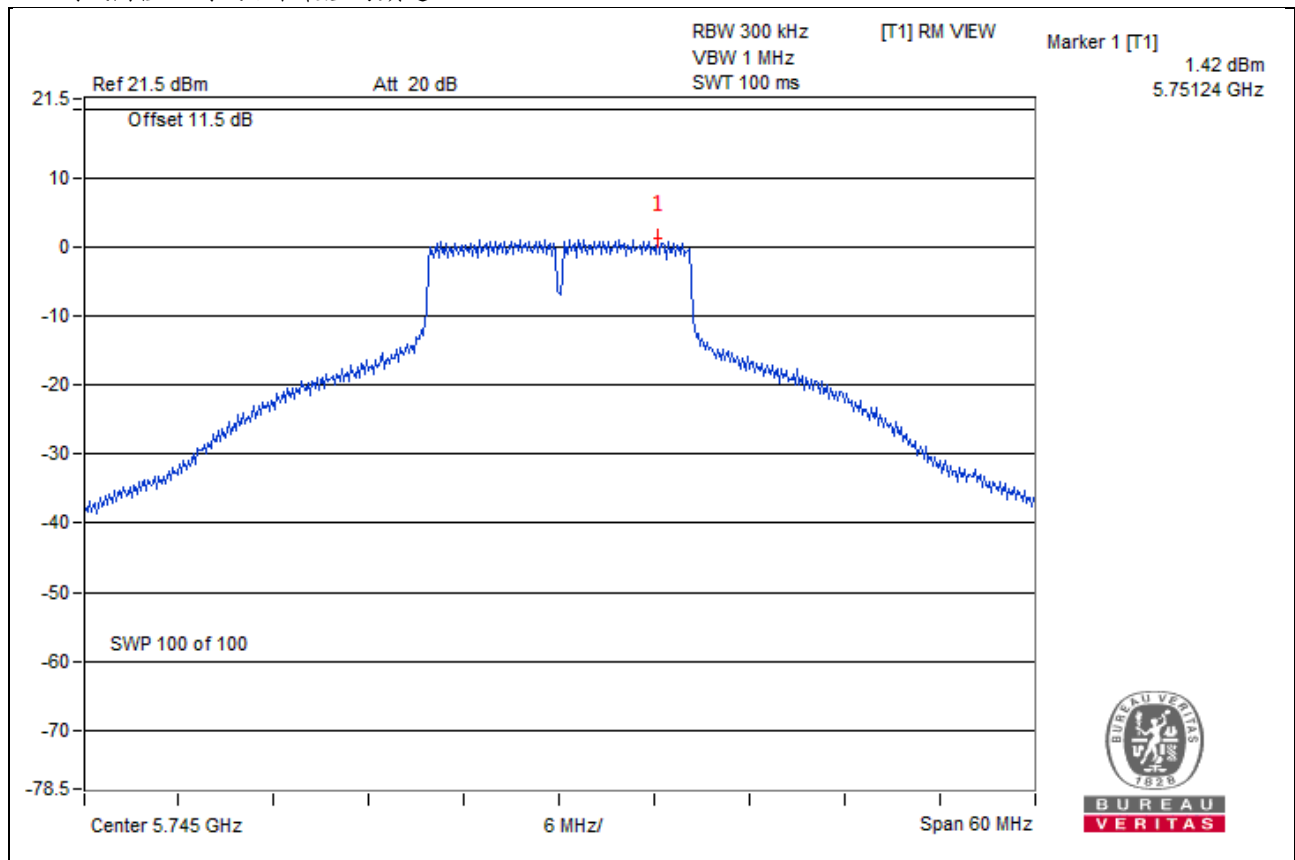
#### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 155   | 5775        | -7.82               | -5.60        | 3.01            | 0.42             | -2.17                                   | 26.99              | Pass        |
| 1        | 155   | 5775        | -10.66              | -8.44        | 3.01            | 0.42             | -5.01                                   | 26.99              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



Test Mode K - AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth6 Radio + POE

1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 36    | 5180           | 4.72                             | 0.32                   | 5.04                                 | 13.00                   | Pass        |
| 40    | 5200           | 7.30                             | 0.32                   | 7.62                                 | 13.00                   | Pass        |
| 48    | 5240           | 5.15                             | 0.32                   | 5.47                                 | 13.00                   | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $17-(10-6) = 13.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 36    | 5180           | 3.75                             | 0.23                   | 3.98                                 | 13.00                   | Pass        |
| 40    | 5200           | 6.59                             | 0.23                   | 6.82                                 | 13.00                   | Pass        |
| 48    | 5240           | 4.81                             | 0.23                   | 5.04                                 | 13.00                   | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $17-(10-6) = 13.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 38    | 5190           | -0.62                            | 0.45                   | -0.17                                | 13.00                   | Pass        |
| 46    | 5230           | 2.62                             | 0.45                   | 3.07                                 | 13.00                   | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $17-(10-6) = 13.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

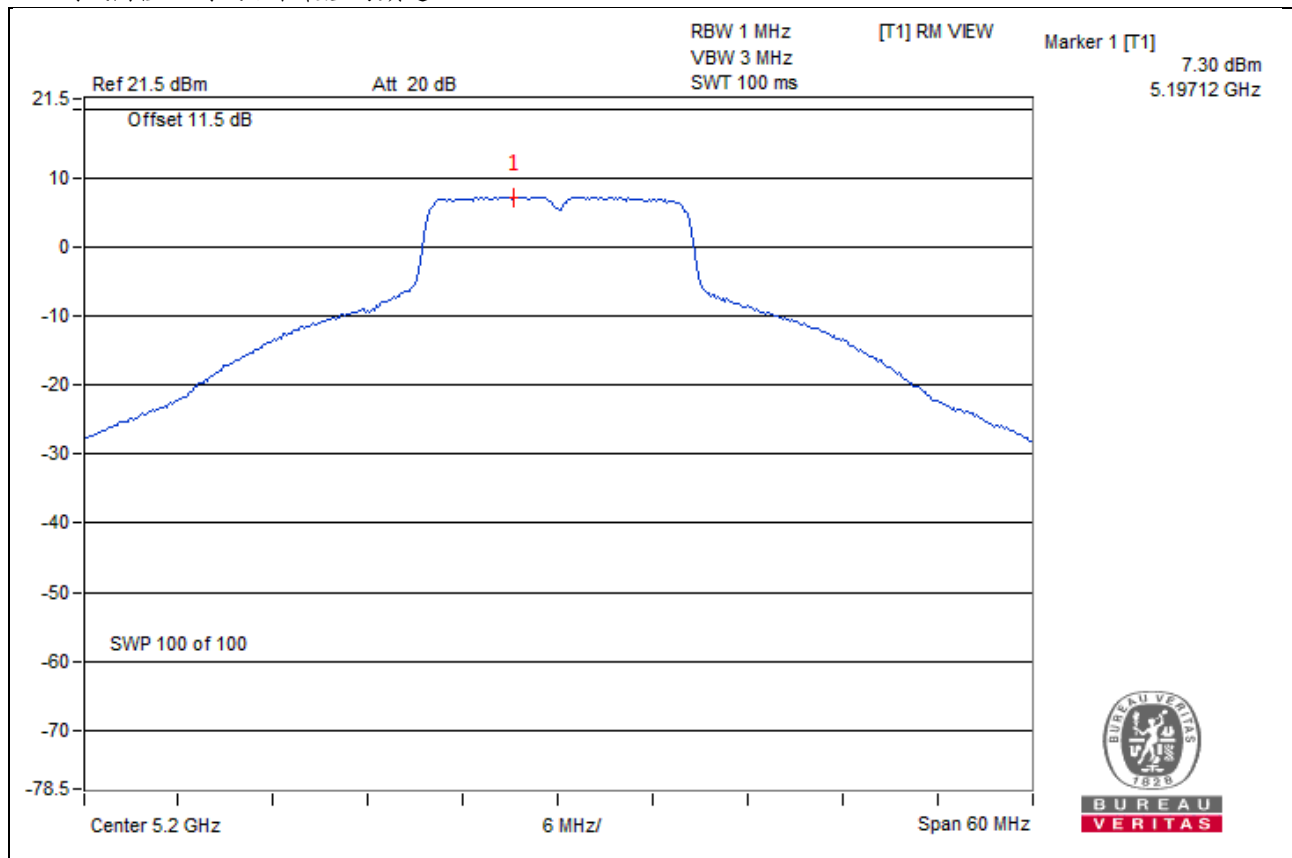
### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 42    | 5210           | -3.57                            | 0.27                   | -3.30                                | 13.00                   | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $17-(10-6) = 13.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

#### 802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 149   | 5745        | -2.11               | 0.11         | 0.32             | 0.43                                    | 26.00              | Pass        |
|          | 157   | 5785        | -2.17               | 0.05         | 0.32             | 0.37                                    | 26.00              | Pass        |
|          | 165   | 5825        | -2.42               | -0.20        | 0.32             | 0.12                                    | 26.00              | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $30-(10-6) = 26.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 149   | 5745        | -2.23               | -0.01        | 0.23             | 0.22                                    | 26.00              | Pass        |
|          | 157   | 5785        | -2.74               | -0.52        | 0.23             | -0.29                                   | 26.00              | Pass        |
|          | 165   | 5825        | -2.62               | -0.40        | 0.23             | -0.17                                   | 26.00              | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $30-(10-6) = 26.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 151   | 5755        | -5.47               | -3.25        | 0.45             | -2.80                                   | 26.00              | Pass        |
|          | 159   | 5795        | -5.42               | -3.20        | 0.45             | -2.75                                   | 26.00              | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $30-(10-6) = 26.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

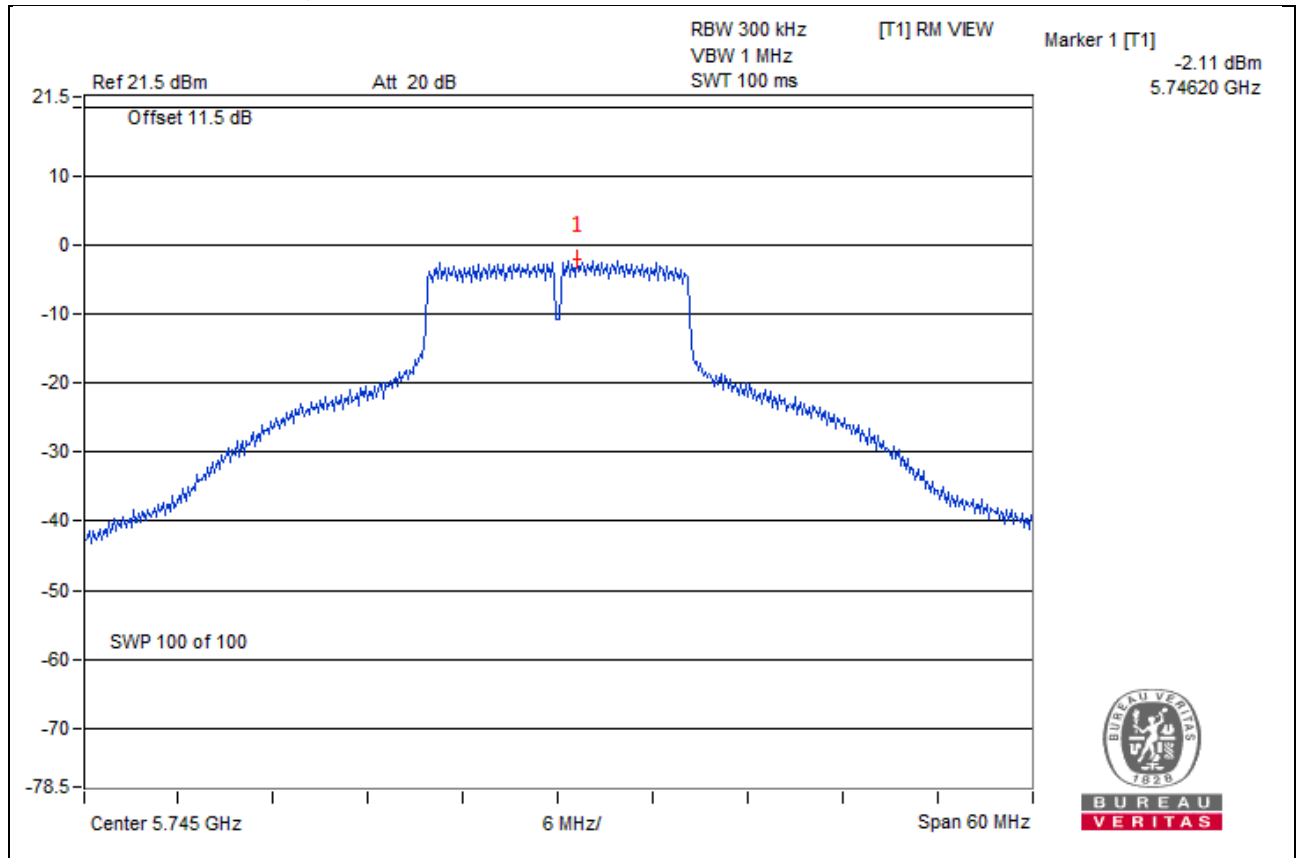
#### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 155   | 5775        | -7.56               | -5.34        | 0.27             | -5.07                                   | 26.00              | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $30-(10-6) = 26.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 36    | 5180           | 4.39                          | 4.50    | 0.32                   | 7.78                                       | 9.99                    | Pass           |
| 40    | 5200           | 6.32                          | 6.28    | 0.32                   | 9.63                                       | 9.99                    | Pass           |
| 48    | 5240           | 5.11                          | 5.26    | 0.32                   | 8.52                                       | 9.99                    | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 17-(13.01-6) = 9.99dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 36    | 5180           | 2.57                          | 3.24    | 0.23                   | 6.16                                       | 9.99                    | Pass           |
| 40    | 5200           | 6.20                          | 6.68    | 0.23                   | 9.69                                       | 9.99                    | Pass           |
| 48    | 5240           | 4.81                          | 4.74    | 0.23                   | 8.02                                       | 9.99                    | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 17-(13.01-6) = 9.99dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 38    | 5190           | -1.61                         | -0.78   | 0.45                   | 2.28                                       | 9.99                    | Pass           |
| 46    | 5230           | 2.62                          | 2.90    | 0.45                   | 6.22                                       | 9.99                    | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10\text{dBi} + 10\log(2) = 13.01\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (13.01 - 6) = 9.99\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

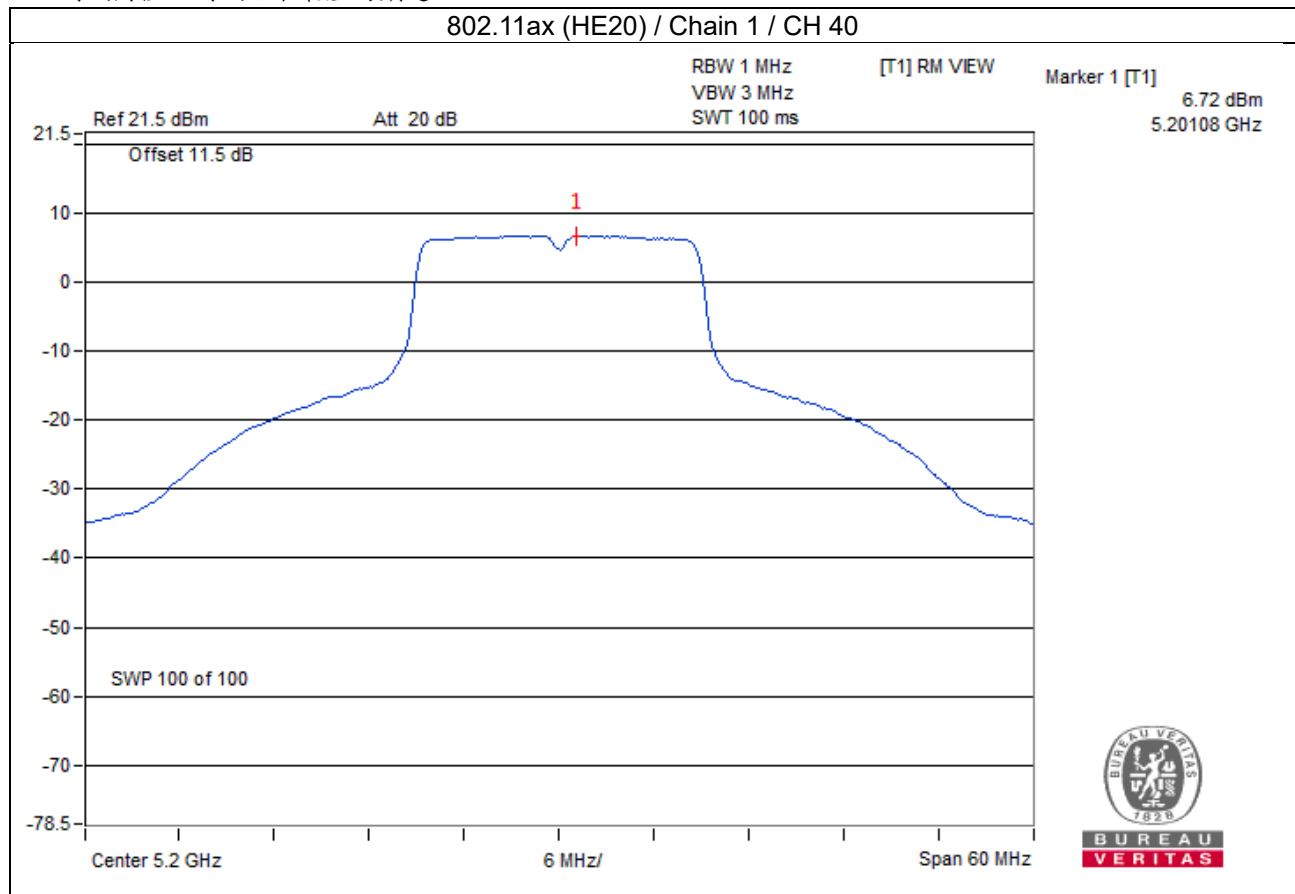
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 42    | 5210           | -3.38                         | -4.18   | 0.27                   | -0.48                                      | 9.99                    | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10\text{dBi} + 10\log(2) = 13.01\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (13.01 - 6) = 9.99\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -2.11               | 0.11         | 3.01            | 0.32             | 3.44                                    | 22.99               | Pass        |
|          | 157   | 5785        | -2.17               | 0.05         | 3.01            | 0.32             | 3.38                                    | 22.99               | Pass        |
|          | 165   | 5825        | -2.42               | -0.20        | 3.01            | 0.32             | 3.13                                    | 22.99               | Pass        |
| 1        | 149   | 5745        | -2.02               | 0.20         | 3.01            | 0.32             | 3.53                                    | 22.99               | Pass        |
|          | 157   | 5785        | -1.49               | 0.73         | 3.01            | 0.32             | 4.06                                    | 22.99               | Pass        |
|          | 165   | 5825        | -1.05               | 1.17         | 3.01            | 0.32             | 4.50                                    | 22.99               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 30-(13.01-6) = 22.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -2.23               | -0.01        | 3.01            | 0.23             | 3.23                                    | 22.99               | Pass        |
|          | 157   | 5785        | -2.74               | -0.52        | 3.01            | 0.23             | 2.72                                    | 22.99               | Pass        |
|          | 165   | 5825        | -2.62               | -0.40        | 3.01            | 0.23             | 2.84                                    | 22.99               | Pass        |
| 1        | 149   | 5745        | -2.23               | -0.01        | 3.01            | 0.23             | 3.23                                    | 22.99               | Pass        |
|          | 157   | 5785        | -2.17               | 0.05         | 3.01            | 0.23             | 3.29                                    | 22.99               | Pass        |
|          | 165   | 5825        | -1.84               | 0.38         | 3.01            | 0.23             | 3.62                                    | 22.99               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 30-(13.01-6) = 22.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 151   | 5755        | -5.47               | -3.25        | 3.01            | 0.45             | 0.21                                    | 22.99               | Pass        |
|          | 159   | 5795        | -5.42               | -3.20        | 3.01            | 0.45             | 0.26                                    | 22.99               | Pass        |
| 1        | 151   | 5755        | -5.48               | -3.26        | 3.01            | 0.45             | 0.20                                    | 22.99               | Pass        |
|          | 159   | 5795        | -5.15               | -2.93        | 3.01            | 0.45             | 0.53                                    | 22.99               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $10\text{dBi} + 10\log(2) = 13.01\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (13.01 - 6) = 22.99\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

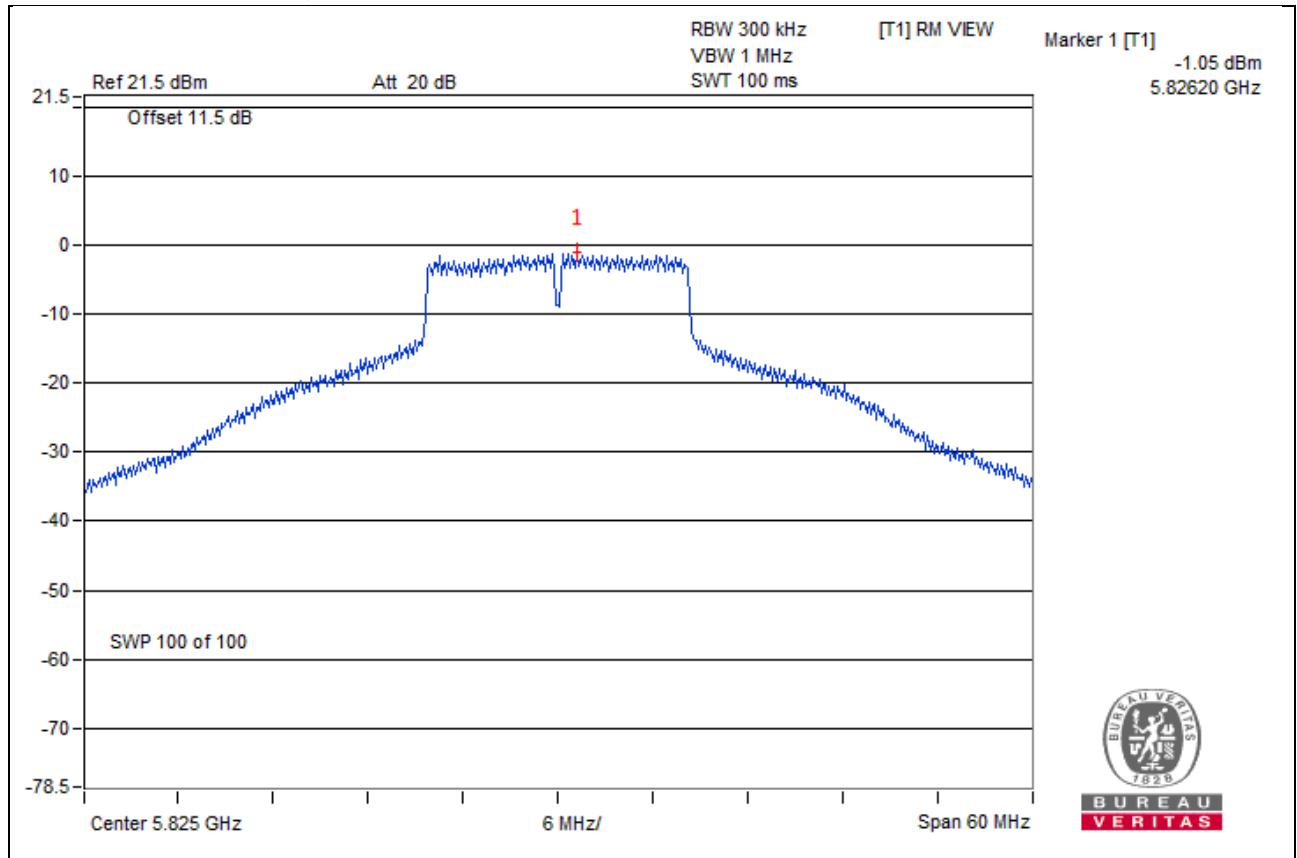
#### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 155   | 5775        | -7.56               | -5.34        | 3.01            | 0.27             | -2.06                                   | 22.99              | Pass        |
| 1        | 155   | 5775        | -7.03               | -4.81        | 3.01            | 0.27             | -1.53                                   | 22.99              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $10\text{dBi} + 10\log(2) = 13.01\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (13.01 - 6) = 22.99\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



### 3TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

#### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                                            |                         |                |
| 36    | 5180           | 2.88                          | 3.20    | 2.90    | 0.32                   | 8.09                                       | 8.23                    | Pass           |
| 40    | 5200           | 3.18                          | 2.79    | 2.95    | 0.32                   | 8.07                                       | 8.23                    | Pass           |
| 48    | 5240           | 3.47                          | 2.81    | 3.09    | 0.32                   | 8.22                                       | 8.23                    | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power density limit shall be reduced to 17-(14.77-6) = 8.23dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                                            |                         |                |
| 36    | 5180           | 1.84                          | 2.26    | 2.90    | 0.23                   | 7.36                                       | 8.23                    | Pass           |
| 40    | 5200           | 2.98                          | 3.21    | 3.13    | 0.23                   | 8.11                                       | 8.23                    | Pass           |
| 48    | 5240           | 3.41                          | 2.79    | 2.96    | 0.23                   | 8.06                                       | 8.23                    | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power density limit shall be reduced to 17-(14.77-6) = 8.23dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                                            |                         |                |
| 38    | 5190           | -1.45                         | -0.95   | -0.40   | 0.45                   | 4.31                                       | 8.23                    | Pass           |
| 46    | 5230           | 1.60                          | 1.62    | 2.62    | 0.45                   | 7.19                                       | 8.23                    | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power density limit shall be reduced to 17-(14.77-6) = 8.23dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

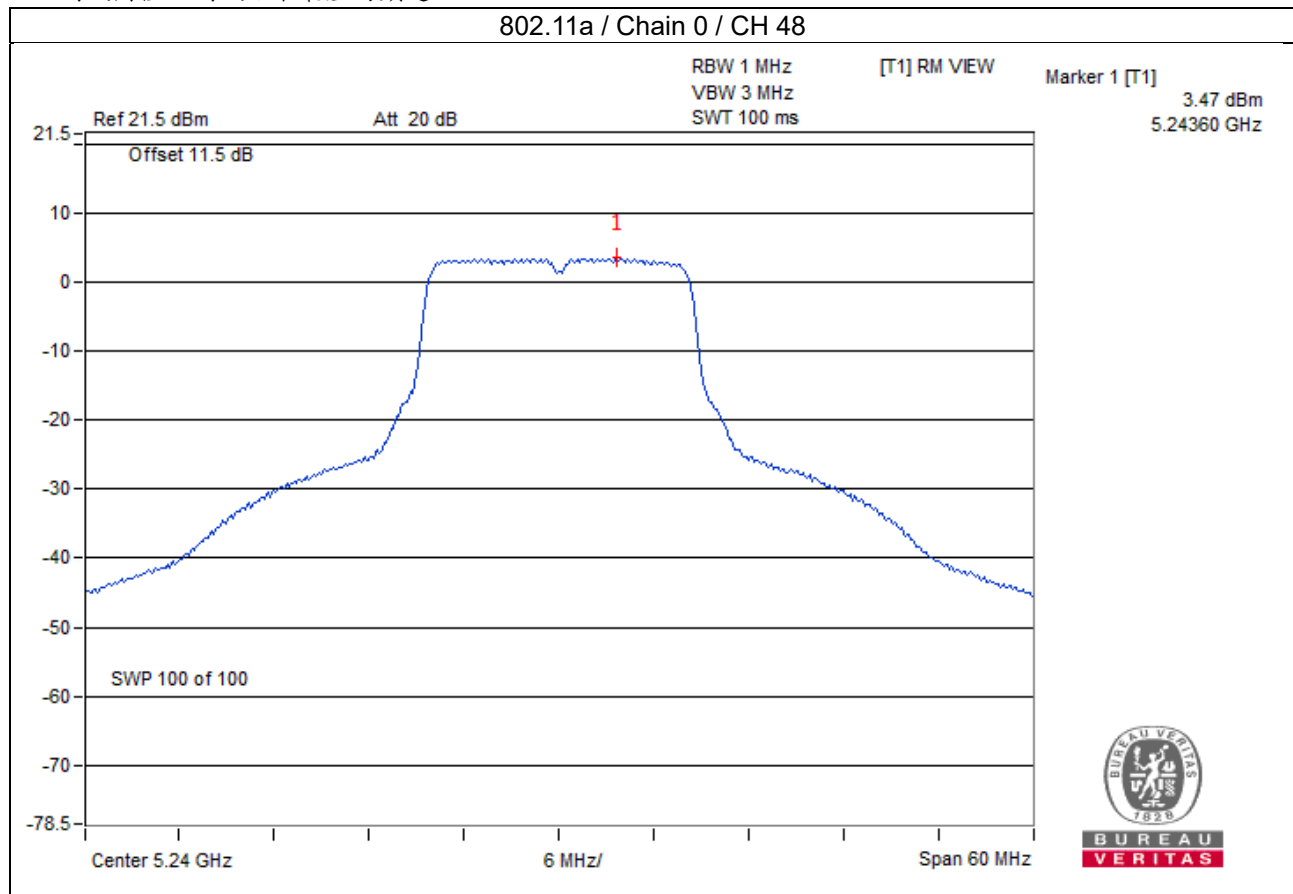
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 |                        |                                            |                         |                |
| 42    | 5210           | -4.14                         | -4.26   | -3.68   | 0.27                   | 1.02                                       | 8.23                    | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power density limit shall be reduced to 17-(14.77-6) = 8.23dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -2.11               | 0.11         | 4.77            | 0.32             | 5.20                                    | 21.23               | Pass        |
|          | 157   | 5785        | -2.17               | 0.05         | 4.77            | 0.32             | 5.14                                    | 21.23               | Pass        |
|          | 165   | 5825        | -2.42               | -0.20        | 4.77            | 0.32             | 4.89                                    | 21.23               | Pass        |
| 1        | 149   | 5745        | -2.02               | 0.20         | 4.77            | 0.32             | 5.29                                    | 21.23               | Pass        |
|          | 157   | 5785        | -1.49               | 0.73         | 4.77            | 0.32             | 5.82                                    | 21.23               | Pass        |
|          | 165   | 5825        | -1.05               | 1.17         | 4.77            | 0.32             | 6.26                                    | 21.23               | Pass        |
| 2        | 149   | 5745        | -1.43               | 0.79         | 4.77            | 0.32             | 5.88                                    | 21.23               | Pass        |
|          | 157   | 5785        | -1.32               | 0.90         | 4.77            | 0.32             | 5.99                                    | 21.23               | Pass        |
|          | 165   | 5825        | -1.32               | 0.90         | 4.77            | 0.32             | 5.99                                    | 21.23               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power density limit shall be reduced to 30-(14.77-6) = 21.23dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -2.23               | -0.01        | 4.77            | 0.23             | 4.99                                    | 21.23               | Pass        |
|          | 157   | 5785        | -2.74               | -0.52        | 4.77            | 0.23             | 4.48                                    | 21.23               | Pass        |
|          | 165   | 5825        | -2.62               | -0.40        | 4.77            | 0.23             | 4.60                                    | 21.23               | Pass        |
| 1        | 149   | 5745        | -2.23               | -0.01        | 4.77            | 0.23             | 4.99                                    | 21.23               | Pass        |
|          | 157   | 5785        | -2.17               | 0.05         | 4.77            | 0.23             | 5.05                                    | 21.23               | Pass        |
|          | 165   | 5825        | -1.84               | 0.38         | 4.77            | 0.23             | 5.38                                    | 21.23               | Pass        |
| 2        | 149   | 5745        | -1.86               | 0.36         | 4.77            | 0.23             | 5.36                                    | 21.23               | Pass        |
|          | 157   | 5785        | -1.99               | 0.23         | 4.77            | 0.23             | 5.23                                    | 21.23               | Pass        |
|          | 165   | 5825        | -1.84               | 0.38         | 4.77            | 0.23             | 5.38                                    | 21.23               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power density limit shall be reduced to 30-(14.77-6) = 21.23dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 151   | 5755        | -5.47               | -3.25        | 4.77            | 0.45             | 1.97                                    | 21.23               | Pass        |
|          | 159   | 5795        | -5.42               | -3.20        | 4.77            | 0.45             | 2.02                                    | 21.23               | Pass        |
| 1        | 151   | 5755        | -5.48               | -3.26        | 4.77            | 0.45             | 1.96                                    | 21.23               | Pass        |
|          | 159   | 5795        | -5.15               | -2.93        | 4.77            | 0.45             | 2.29                                    | 21.23               | Pass        |
| 2        | 151   | 5755        | -6.25               | -4.03        | 4.77            | 0.45             | 1.19                                    | 21.23               | Pass        |
|          | 159   | 5795        | -6.06               | -3.84        | 4.77            | 0.45             | 1.38                                    | 21.23               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power density limit shall be reduced to 30-(14.77-6) = 21.23dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

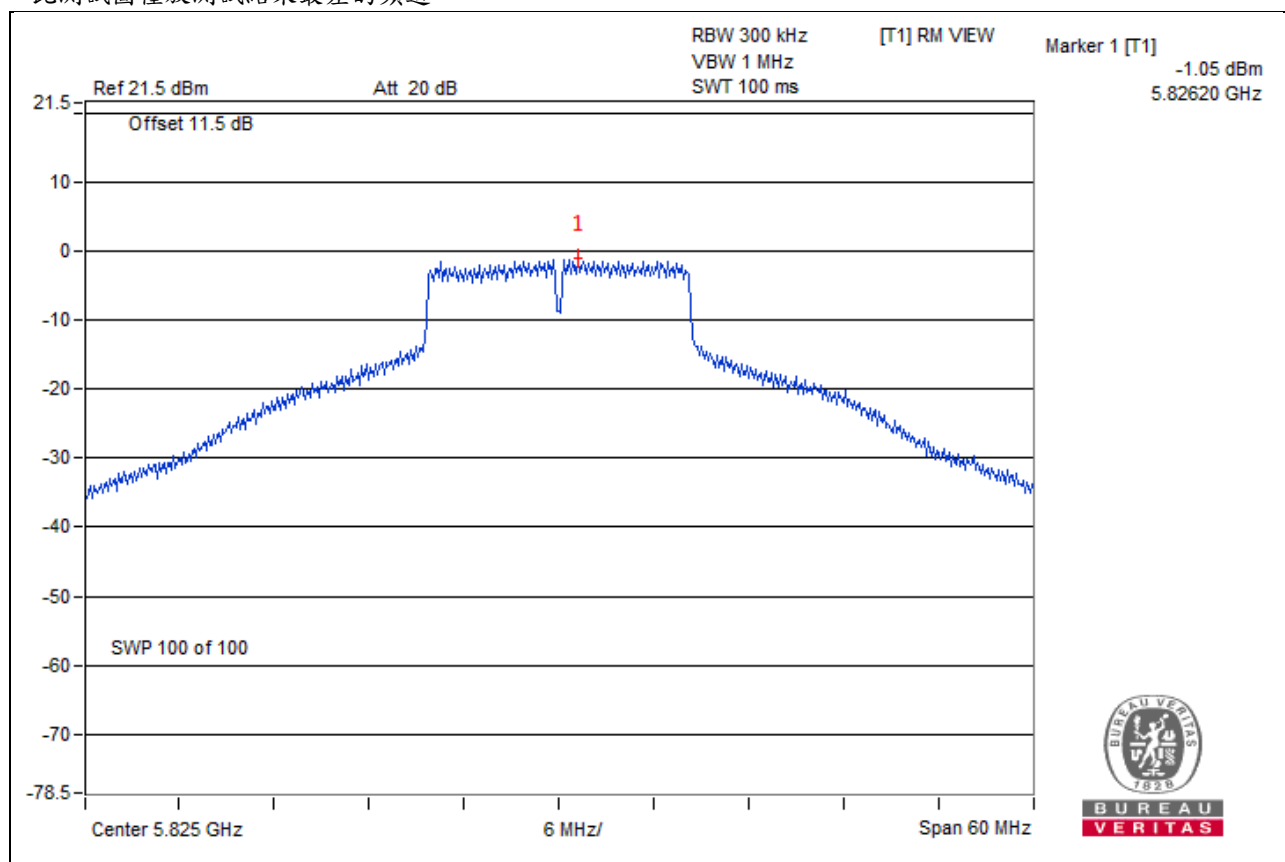
### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=3) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 155   | 5775        | -8.95               | -6.73        | 4.77            | 0.27             | -1.69                                   | 21.23              | Pass        |
| 1        | 155   | 5775        | -7.02               | -4.80        | 4.77            | 0.27             | 0.24                                    | 21.23              | Pass        |
| 2        | 155   | 5775        | -8.05               | -5.83        | 4.77            | 0.27             | -0.79                                   | 21.23              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi, so the power density limit shall be reduced to 30-(14.77-6) = 21.23dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



#### 4TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

#### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 36    | 5180           | 0.14                          | 0.35    | 0.43    | 0.35    | 0.32                   | 6.66                                       | 6.98                    | Pass           |
| 40    | 5200           | 0.09                          | 0.63    | 0.29    | 0.45    | 0.32                   | 6.71                                       | 6.98                    | Pass           |
| 48    | 5240           | 0.29                          | 0.41    | 0.23    | 0.75    | 0.32                   | 6.77                                       | 6.98                    | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 10dBi + 10log(4) = 16.02dBi > 6dBi, so the power density limit shall be reduced to 17-(16.02-6) = 6.98dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 36    | 5180           | 0.54                          | 0.54    | 0.46    | 0.45    | 0.23                   | 6.75                                       | 6.98                    | Pass           |
| 40    | 5200           | 0.26                          | 0.72    | 0.55    | 0.62    | 0.23                   | 6.79                                       | 6.98                    | Pass           |
| 48    | 5240           | 0.56                          | 0.78    | 0.42    | 0.46    | 0.23                   | 6.81                                       | 6.98                    | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 10dBi + 10log(4) = 16.02dBi > 6dBi, so the power density limit shall be reduced to 17-(16.02-6) = 6.98dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 38    | 5190           | -2.99                         | -2.07   | -2.99   | -3.04   | 0.45                   | 3.72                                       | 6.98                    | Pass           |
| 46    | 5230           | 0.32                          | 0.66    | -0.10   | -0.40   | 0.45                   | 6.61                                       | 6.98                    | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10\text{dBi} + 10\log(4) = 16.02\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (16.02 - 6) = 6.98\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

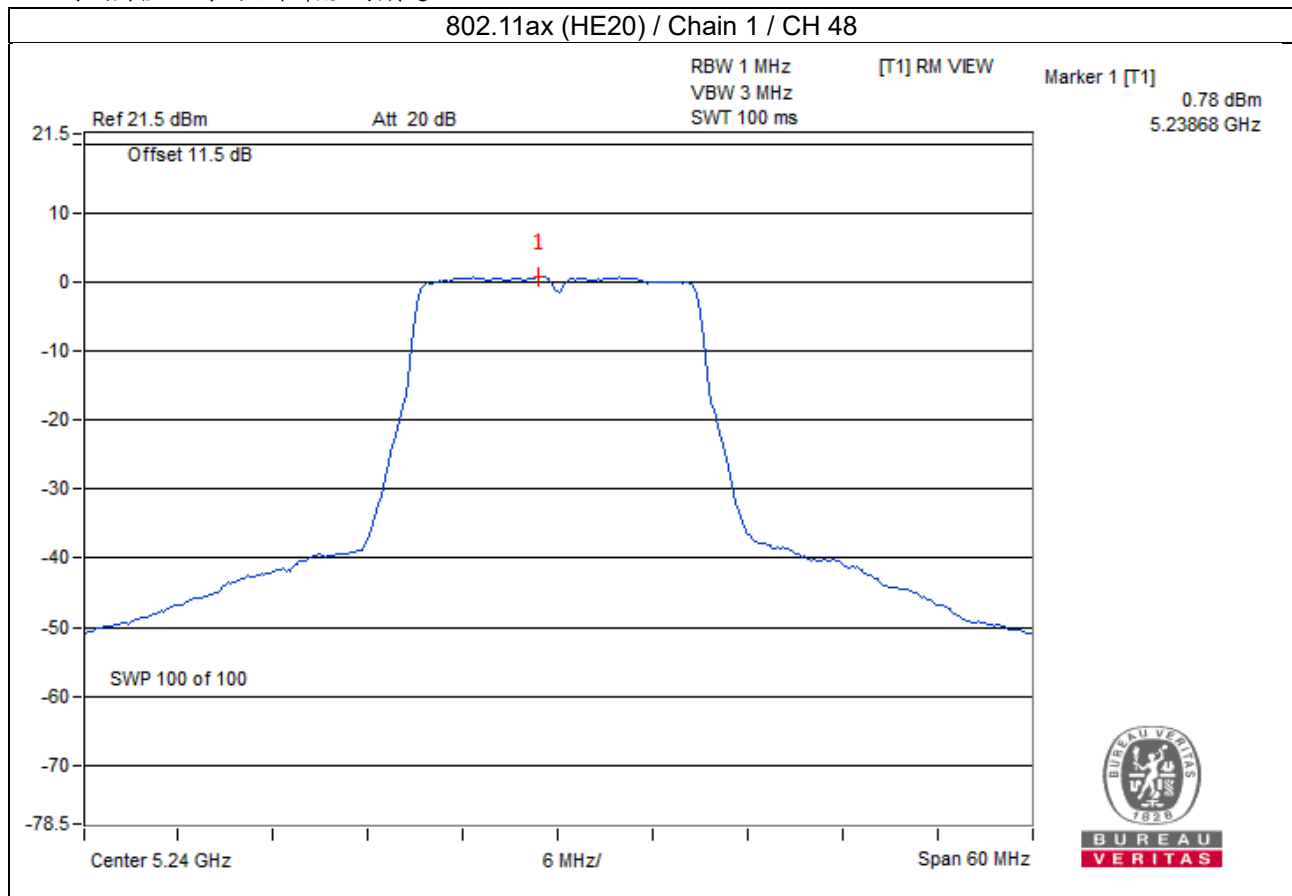
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|---------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                        |                                            |                         |                |
| 42    | 5210           | -5.51                         | -4.63   | -5.88   | -5.56   | 0.27                   | 0.92                                       | 6.98                    | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain =  $10\text{dBi} + 10\log(4) = 16.02\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $17 - (16.02 - 6) = 6.98\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -2.11               | 0.11         | 6.02            | 0.32             | 6.45                                    | 19.98               | Pass        |
|          | 157   | 5785        | -2.17               | 0.05         | 6.02            | 0.32             | 6.39                                    | 19.98               | Pass        |
|          | 165   | 5825        | -2.42               | -0.20        | 6.02            | 0.32             | 6.14                                    | 19.98               | Pass        |
| 1        | 149   | 5745        | -2.02               | 0.20         | 6.02            | 0.32             | 6.54                                    | 19.98               | Pass        |
|          | 157   | 5785        | -1.49               | 0.73         | 6.02            | 0.32             | 7.07                                    | 19.98               | Pass        |
|          | 165   | 5825        | -1.05               | 1.17         | 6.02            | 0.32             | 7.51                                    | 19.98               | Pass        |
| 2        | 149   | 5745        | -1.43               | 0.79         | 6.02            | 0.32             | 7.13                                    | 19.98               | Pass        |
|          | 157   | 5785        | -1.32               | 0.90         | 6.02            | 0.32             | 7.24                                    | 19.98               | Pass        |
|          | 165   | 5825        | -1.32               | 0.90         | 6.02            | 0.32             | 7.24                                    | 19.98               | Pass        |
| 3        | 149   | 5745        | -3.14               | -0.92        | 6.02            | 0.32             | 5.42                                    | 19.98               | Pass        |
|          | 157   | 5785        | -3.12               | -0.90        | 6.02            | 0.32             | 5.44                                    | 19.98               | Pass        |
|          | 165   | 5825        | -2.81               | -0.59        | 6.02            | 0.32             | 5.75                                    | 19.98               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $10\text{dBi} + 10\log(4) = 16.02\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (16.02 - 6) = 19.98\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

## 802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | -2.23               | -0.01        | 6.02            | 0.23             | 6.24                                    | 19.98               | Pass        |
|          | 157   | 5785        | -2.74               | -0.52        | 6.02            | 0.23             | 5.73                                    | 19.98               | Pass        |
|          | 165   | 5825        | -2.62               | -0.40        | 6.02            | 0.23             | 5.85                                    | 19.98               | Pass        |
| 1        | 149   | 5745        | -2.23               | -0.01        | 6.02            | 0.23             | 6.24                                    | 19.98               | Pass        |
|          | 157   | 5785        | -2.17               | 0.05         | 6.02            | 0.23             | 6.30                                    | 19.98               | Pass        |
|          | 165   | 5825        | -1.84               | 0.38         | 6.02            | 0.23             | 6.63                                    | 19.98               | Pass        |
| 2        | 149   | 5745        | -1.86               | 0.36         | 6.02            | 0.23             | 6.61                                    | 19.98               | Pass        |
|          | 157   | 5785        | -1.99               | 0.23         | 6.02            | 0.23             | 6.48                                    | 19.98               | Pass        |
|          | 165   | 5825        | -1.84               | 0.38         | 6.02            | 0.23             | 6.63                                    | 19.98               | Pass        |
| 3        | 149   | 5745        | -3.83               | -1.61        | 6.02            | 0.23             | 4.64                                    | 19.98               | Pass        |
|          | 157   | 5785        | -3.37               | -1.15        | 6.02            | 0.23             | 5.10                                    | 19.98               | Pass        |
|          | 165   | 5825        | -3.19               | -0.97        | 6.02            | 0.23             | 5.28                                    | 19.98               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add  $10 \log (N_{ANT})$  dB.
2. Directional gain =  $10\text{dBi} + 10\log(4) = 16.02\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $30 - (16.02 - 6) = 19.98\text{dBm}$ .
3. Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 151   | 5755        | -5.47               | -3.25        | 6.02            | 0.45             | 3.22                                    | 19.98              | Pass        |
|          | 159   | 5795        | -5.42               | -3.20        | 6.02            | 0.45             | 3.27                                    | 19.98              | Pass        |
| 1        | 151   | 5755        | -5.48               | -3.26        | 6.02            | 0.45             | 3.21                                    | 19.98              | Pass        |
|          | 159   | 5795        | -5.15               | -2.93        | 6.02            | 0.45             | 3.54                                    | 19.98              | Pass        |
| 2        | 151   | 5755        | -6.25               | -4.03        | 6.02            | 0.45             | 2.44                                    | 19.98              | Pass        |
|          | 159   | 5795        | -6.06               | -3.84        | 6.02            | 0.45             | 2.63                                    | 19.98              | Pass        |
| 3        | 151   | 5755        | -6.99               | -4.77        | 6.02            | 0.45             | 1.70                                    | 19.98              | Pass        |
|          | 159   | 5795        | -6.52               | -4.30        | 6.02            | 0.45             | 2.17                                    | 19.98              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(4) = 16.02dBi > 6dBi, so the power density limit shall be reduced to 30-(16.02-6) = 19.98dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

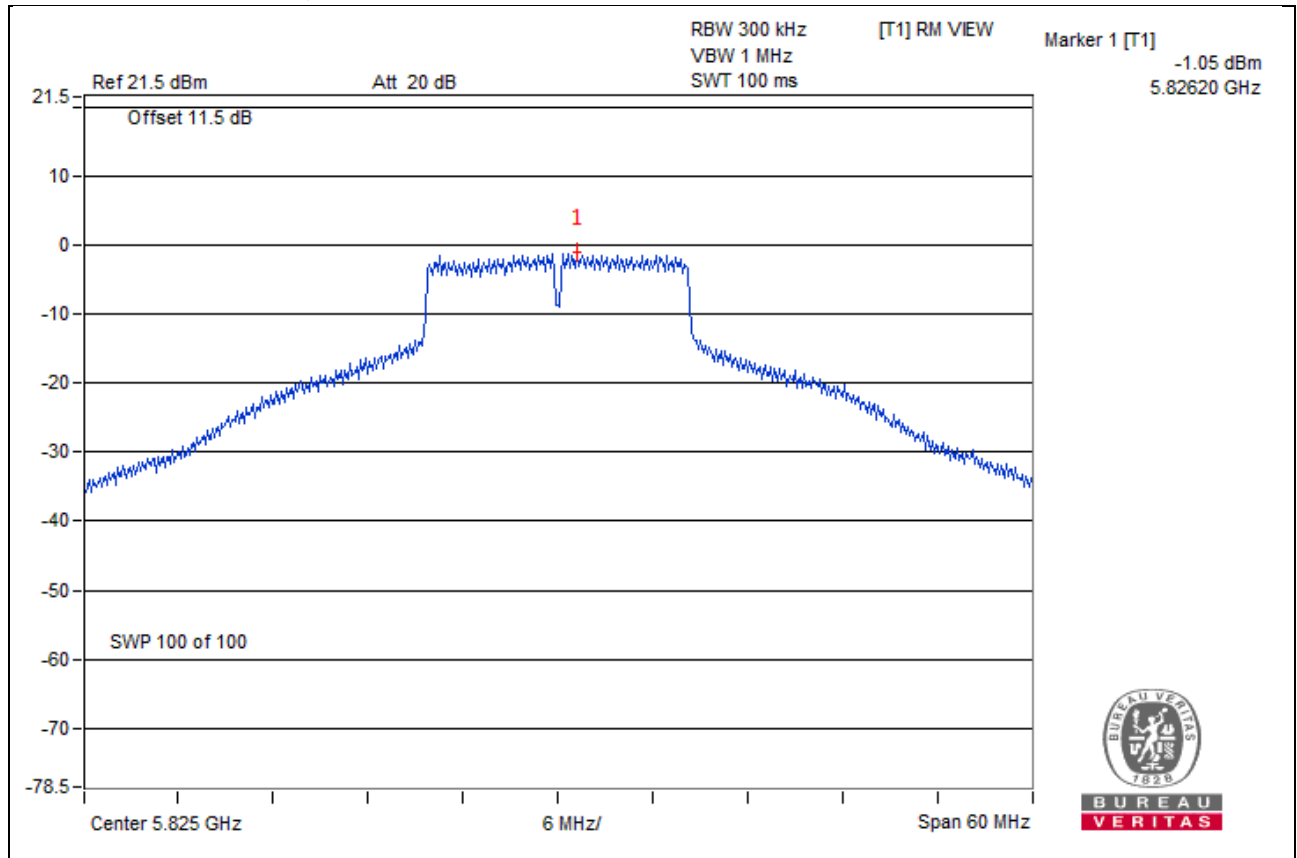
### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                    |             |
| 0        | 155   | 5775        | -9.90               | -7.68        | 6.02            | 0.27             | -1.39                                   | 19.98              | Pass        |
| 1        | 155   | 5775        | -9.74               | -7.52        | 6.02            | 0.27             | -1.23                                   | 19.98              | Pass        |
| 2        | 155   | 5775        | -9.88               | -7.66        | 6.02            | 0.27             | -1.37                                   | 19.98              | Pass        |
| 3        | 155   | 5775        | -10.87              | -8.65        | 6.02            | 0.27             | -2.36                                   | 19.98              | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(4) = 16.02dBi > 6dBi, so the power density limit shall be reduced to 30-(16.02-6) = 19.98dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



Test Mode M - AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth7 Radio + POE

1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 36    | 5180           | 5.85                             | 0.24                   | 6.09                                 | 13.00                   | Pass        |
| 40    | 5200           | 8.82                             | 0.24                   | 9.06                                 | 13.00                   | Pass        |
| 48    | 5240           | 5.87                             | 0.24                   | 6.11                                 | 13.00                   | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $17-(10-6) = 13.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 36    | 5180           | 4.77                             | 0.19                   | 4.96                                 | 13.00                   | Pass        |
| 40    | 5200           | 8.63                             | 0.19                   | 8.82                                 | 13.00                   | Pass        |
| 48    | 5240           | 4.93                             | 0.19                   | 5.12                                 | 13.00                   | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $17-(10-6) = 13.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 38    | 5190           | 1.00                             | 0.18                   | 1.18                                 | 13.00                   | Pass        |
| 46    | 5230           | 5.33                             | 0.18                   | 5.51                                 | 13.00                   | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $17-(10-6) = 13.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

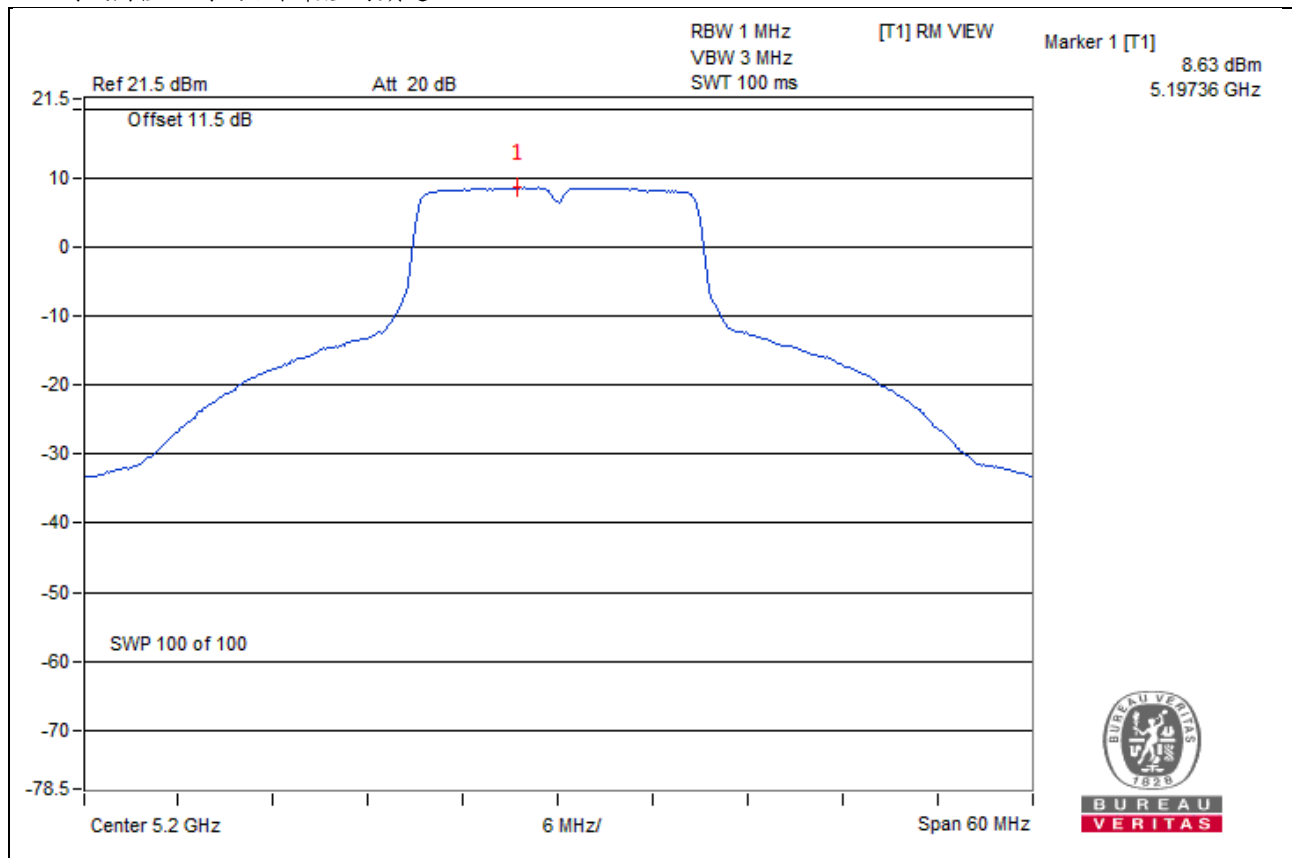
### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor<br>(dBm/MHz) | Duty<br>Factor<br>(dB) | PSD with Duty<br>Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|----------------------------------|------------------------|--------------------------------------|-------------------------|-------------|
|       |                | Chain 0                          |                        |                                      |                         |             |
| 42    | 5210           | -2.16                            | 0.42                   | -1.74                                | 13.00                   | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $17-(10-6) = 13.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

#### 802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 149   | 5745        | 1.42                | 3.64         | 0.24             | 3.88                                    | 26.00              | Pass        |
|          | 157   | 5785        | 0.98                | 3.20         | 0.24             | 3.44                                    | 26.00              | Pass        |
|          | 165   | 5825        | 0.53                | 2.75         | 0.24             | 2.99                                    | 26.00              | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $30-(10-6) = 26.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 149   | 5745        | 0.27                | 2.49         | 0.19             | 2.68                                    | 26.00              | Pass        |
|          | 157   | 5785        | 0.24                | 2.46         | 0.19             | 2.65                                    | 26.00              | Pass        |
|          | 165   | 5825        | -0.49               | 1.73         | 0.19             | 1.92                                    | 26.00              | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $30-(10-6) = 26.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 151   | 5755        | -2.62               | -0.40        | 0.18             | -0.22                                   | 26.00              | Pass        |
|          | 159   | 5795        | -2.74               | -0.52        | 0.18             | -0.34                                   | 26.00              | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $30-(10-6) = 26.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

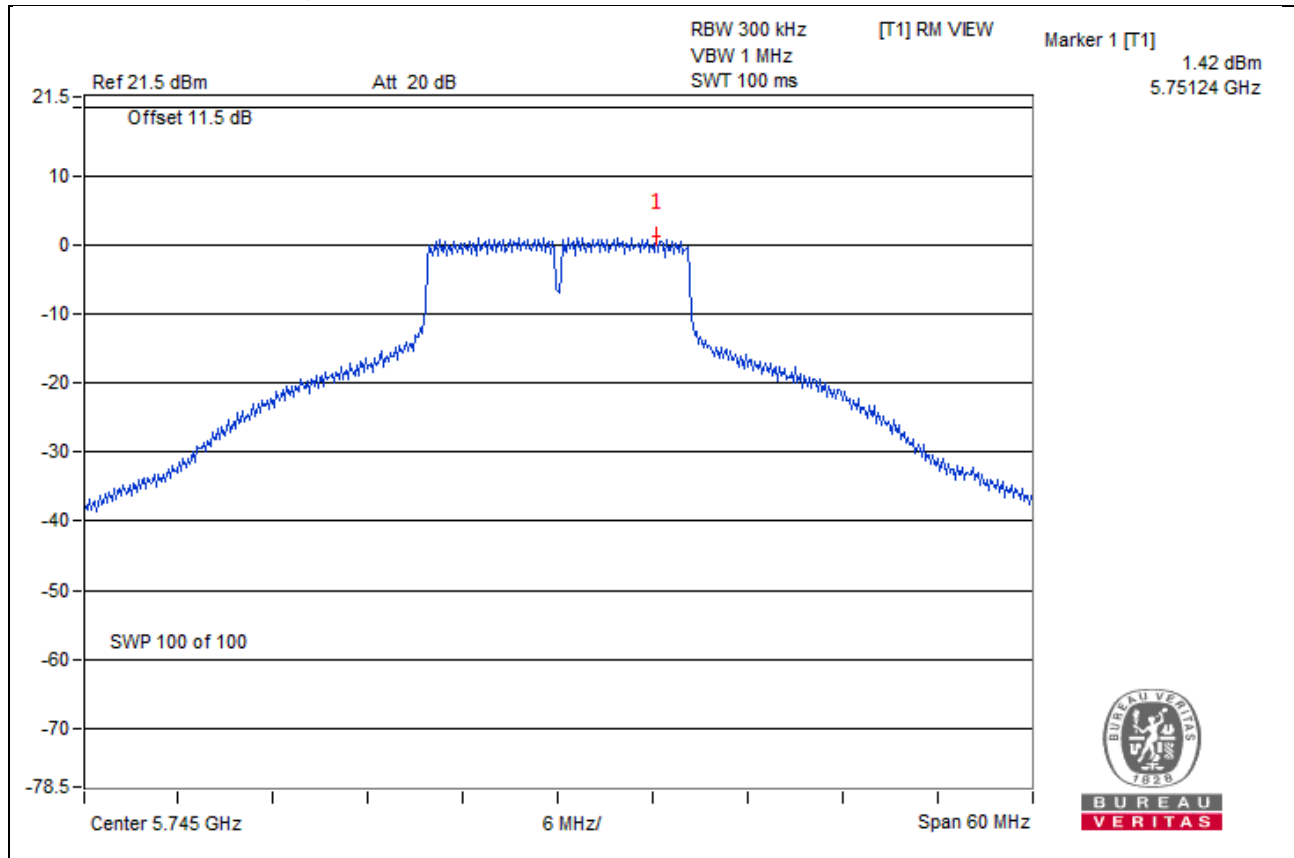
#### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|------------------|-----------------------------------------|--------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                  |                                         |                    |             |
| 0        | 155   | 5775        | -5.31               | -3.09        | 0.42             | -2.67                                   | 26.00              | Pass        |

Note:

1. Gain = 10dBi > 6dBi, so the power density limit shall be reduced to  $30-(10-6) = 26.00\text{dBm}$ .
2. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

For 5180 ~ 5240MHz:

### 802.11a

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 36    | 5180           | 2.59                          | 3.11    | 0.24                   | 6.11                                       | 9.99                    | Pass           |
| 40    | 5200           | 6.58                          | 6.74    | 0.24                   | 9.91                                       | 9.99                    | Pass           |
| 48    | 5240           | 5.87                          | 3.19    | 0.24                   | 7.98                                       | 9.99                    | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 17-(13.01-6) = 9.99dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

### 802.11ax (HE20)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 36    | 5180           | 0.68                          | 1.50    | 0.19                   | 4.31                                       | 9.99                    | Pass           |
| 40    | 5200           | 6.65                          | 6.68    | 0.19                   | 9.87                                       | 9.99                    | Pass           |
| 48    | 5240           | 4.92                          | 2.34    | 0.19                   | 7.02                                       | 9.99                    | Pass           |

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 17-(13.01-6) = 9.99dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 38    | 5190           | -2.25                         | -2.05   | 0.18                   | 1.04                                       | 9.99                    | Pass           |
| 46    | 5230           | 3.65                          | 1.91    | 0.18                   | 6.06                                       | 9.99                    | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 17-(13.01-6) = 9.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

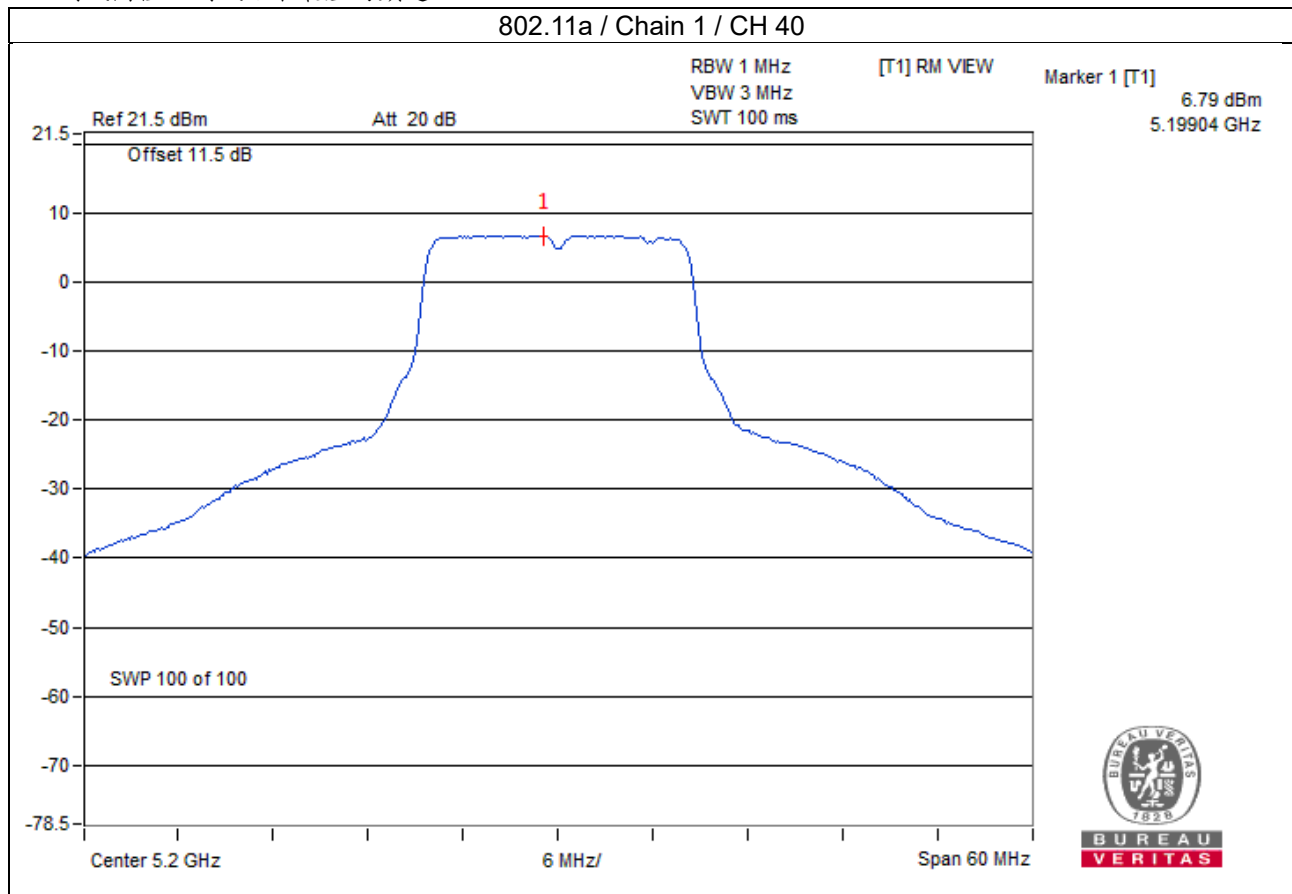
#### 802.11ax (HE80)

| Chan. | Freq.<br>(MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty<br>Factor<br>(dB) | Total PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass /<br>Fail |
|-------|----------------|-------------------------------|---------|------------------------|--------------------------------------------|-------------------------|----------------|
|       |                | Chain 0                       | Chain 1 |                        |                                            |                         |                |
| 42    | 5210           | -6.82                         | -6.07   | 0.42                   | -3.00                                      | 9.99                    | Pass           |

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 17-(13.01-6) = 9.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz:

802.11a

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | 1.42                | 3.64         | 3.01            | 0.24             | 6.89                                    | 22.99               | Pass        |
|          | 157   | 5785        | 0.98                | 3.20         | 3.01            | 0.24             | 6.45                                    | 22.99               | Pass        |
|          | 165   | 5825        | 0.53                | 2.75         | 3.01            | 0.24             | 6.00                                    | 22.99               | Pass        |
| 1        | 149   | 5745        | 0.15                | 2.37         | 3.01            | 0.24             | 5.62                                    | 22.99               | Pass        |
|          | 157   | 5785        | -0.12               | 2.10         | 3.01            | 0.24             | 5.35                                    | 22.99               | Pass        |
|          | 165   | 5825        | -0.27               | 1.95         | 3.01            | 0.24             | 5.20                                    | 22.99               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 30-(13.01-6) = 22.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 149   | 5745        | 0.27                | 2.49         | 3.01            | 0.19             | 5.69                                    | 22.99               | Pass        |
|          | 157   | 5785        | 0.24                | 2.46         | 3.01            | 0.19             | 5.66                                    | 22.99               | Pass        |
|          | 165   | 5825        | -0.49               | 1.73         | 3.01            | 0.19             | 4.93                                    | 22.99               | Pass        |
| 1        | 149   | 5745        | -1.11               | 1.11         | 3.01            | 0.19             | 4.31                                    | 22.99               | Pass        |
|          | 157   | 5785        | -1.35               | 0.87         | 3.01            | 0.19             | 4.07                                    | 22.99               | Pass        |
|          | 165   | 5825        | -1.27               | 0.95         | 3.01            | 0.19             | 4.15                                    | 22.99               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 30-(13.01-6) = 22.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

#### 802.11ax (HE40)

| TX chain | Chan. | Freq. (MHz) | PSD w/o Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD with Duty Factor (dBm/500kHz) | Limit (dBm/500 kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 151   | 5755        | -2.62               | -0.40        | 3.01            | 0.18             | 2.79                                    | 22.99               | Pass        |
|          | 159   | 5795        | -2.74               | -0.52        | 3.01            | 0.18             | 2.67                                    | 22.99               | Pass        |
| 1        | 151   | 5755        | -4.16               | -1.94        | 3.01            | 0.18             | 1.25                                    | 22.99               | Pass        |
|          | 159   | 5795        | -4.31               | -2.09        | 3.01            | 0.18             | 1.10                                    | 22.99               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 30-(13.01-6) = 22.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

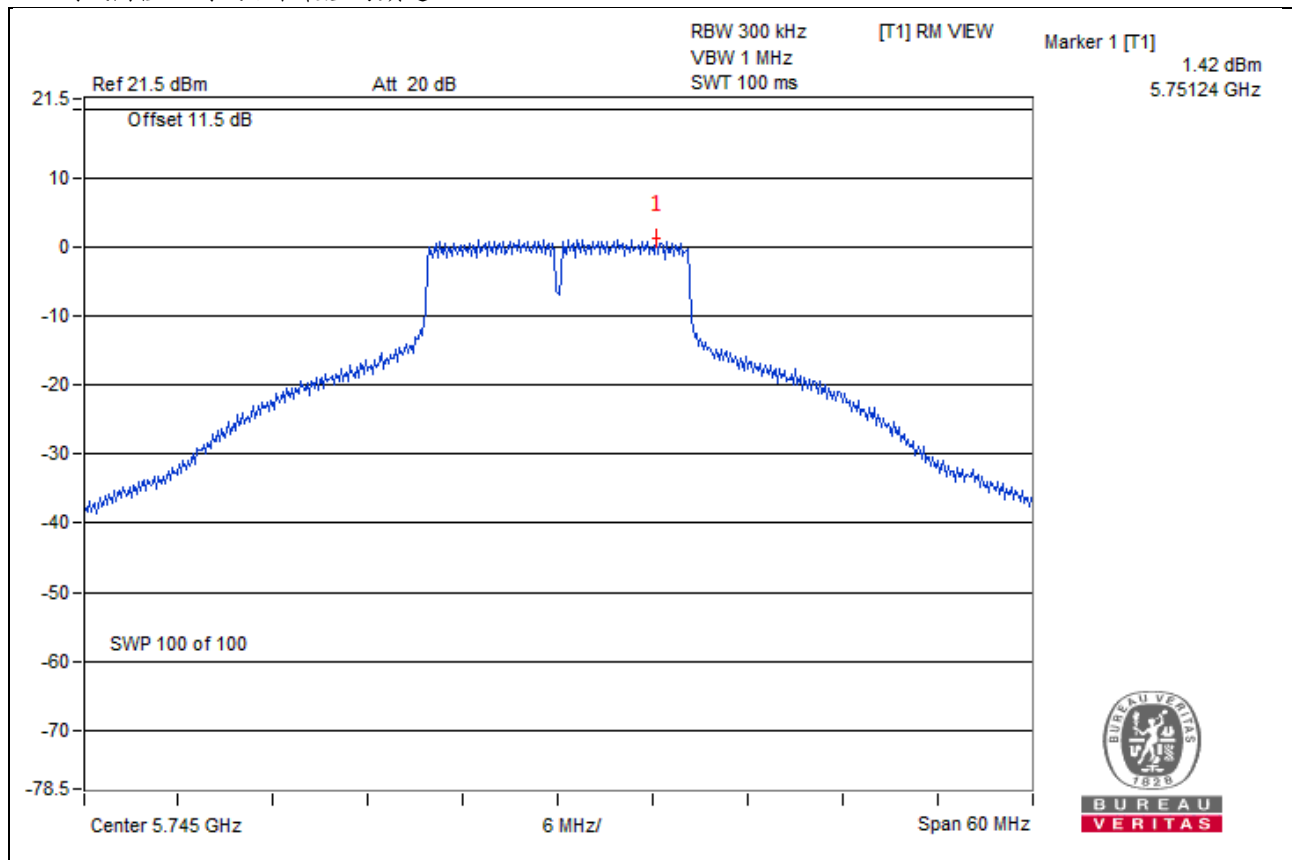
#### 802.11ax (HE80)

| TX chain | Chan. | Freq. (MHz) | PSD W/O Duty Factor |              | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/ 500kHz) | Pass / Fail |
|----------|-------|-------------|---------------------|--------------|-----------------|------------------|-----------------------------------------|---------------------|-------------|
|          |       |             | (dBm/300kHz)        | (dBm/500kHz) |                 |                  |                                         |                     |             |
| 0        | 155   | 5775        | -9.42               | -7.20        | 3.01            | 0.42             | -3.77                                   | 22.99               | Pass        |
| 1        | 155   | 5775        | -8.43               | -6.21        | 3.01            | 0.42             | -2.78                                   | 22.99               | Pass        |

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 10dBi + 10log(2) = 13.01dBi > 6dBi, so the power density limit shall be reduced to 30-(13.01-6) = 22.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

\*\*此測試圖僅放測試結果最差的頻道。



## 7.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

## 8 6 dB 頻寬之要求

### 8.1 適用標準

| 待測物操作頻帶                                                 | 適用標準                    |
|---------------------------------------------------------|-------------------------|
| <input checked="" type="checkbox"/> 5.725 GHz~5.850 GHz | 請見本報告 3.1 節第 6 項(II)的規定 |

### 8.2 量測方法

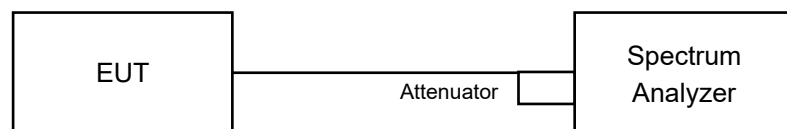
- 將待測物輸出經由衰減器接到頻譜分析儀上。
- 設定待測物處於連續發射狀態。
- 計算由最大輸出功率峰值減6dB的最大頻率範圍。

### 8.3 量測儀器

| Description & Manufacturer           | Model No. | Serial No. | Date of Calibration | Due Date of Calibration |
|--------------------------------------|-----------|------------|---------------------|-------------------------|
| Spectrum Analyzer<br>ROHDE & SCHWARZ | FSP40     | 100040     | Sep. 25, 2018       | Sep. 24, 2019           |
|                                      |           |            | Sep. 23, 2019       | Sep. 22, 2020           |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
 2. The measurement uncertainty is 207Hz, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 8.4 測試配置



## 8.5 量測結果

Test Mode A - AP43 (Internal antenna) + Eth6 Radio + POE

### 1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳往衡  |        |                 |

### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 2             |                     |             |
| 149     | 5745            | 16.37               | 0.5                 | Pass        |
| 157     | 5785            | 16.36               | 0.5                 | Pass        |
| 165     | 5825            | 16.39               | 0.5                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 2             |                     |             |
| 149     | 5745            | 17.60               | 0.5                 | Pass        |
| 157     | 5785            | 17.60               | 0.5                 | Pass        |
| 165     | 5825            | 17.62               | 0.5                 | Pass        |

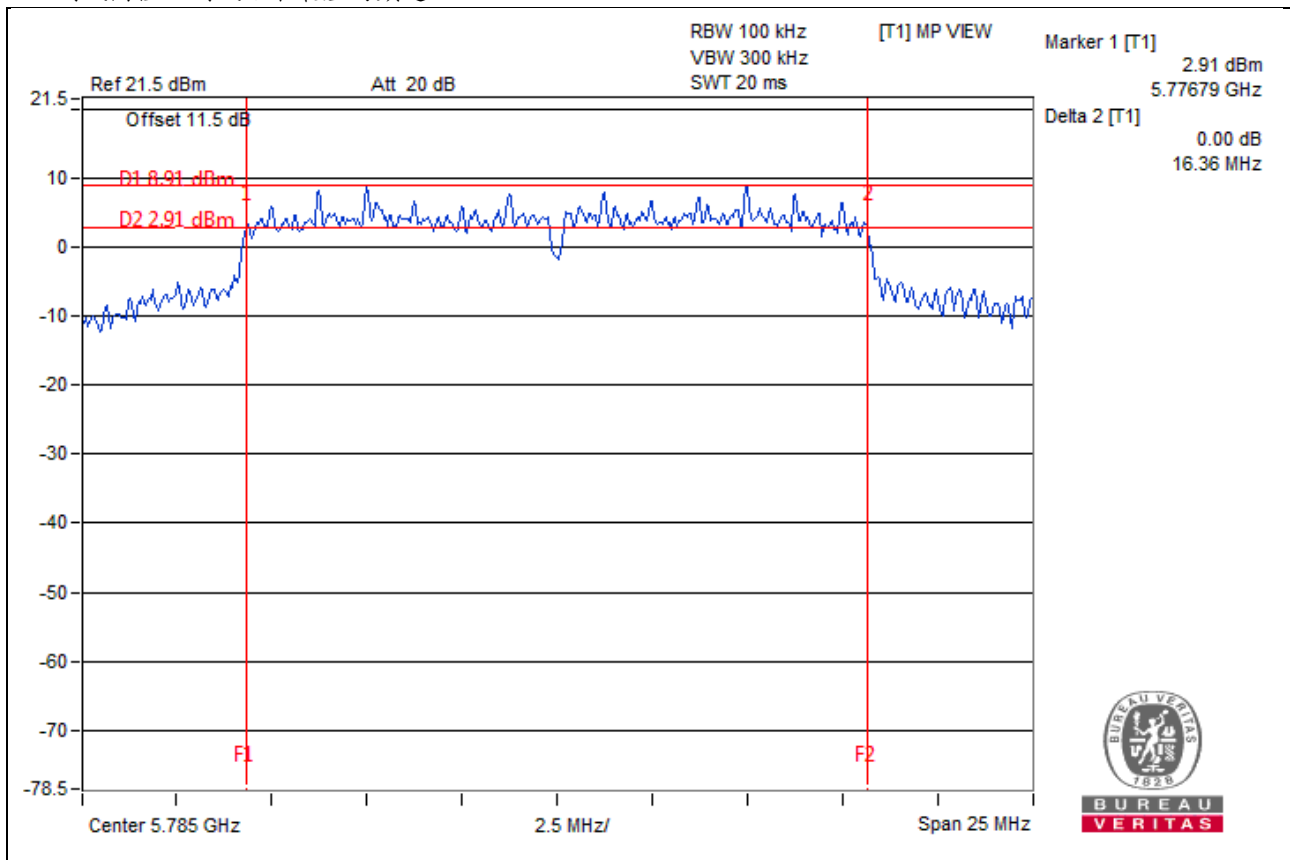
### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 2             |                     |             |
| 151     | 5755            | 35.87               | 0.5                 | Pass        |
| 159     | 5795            | 35.88               | 0.5                 | Pass        |

### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 2             |                     |             |
| 155     | 5775            | 75.47               | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 2             | Chain 3 |                     |             |
| 149     | 5745            | 16.37               | 16.40   | 0.5                 | Pass        |
| 157     | 5785            | 16.36               | 16.41   | 0.5                 | Pass        |
| 165     | 5825            | 16.39               | 16.42   | 0.5                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 2             | Chain 3 |                     |             |
| 149     | 5745            | 17.60               | 17.62   | 0.5                 | Pass        |
| 157     | 5785            | 17.60               | 17.65   | 0.5                 | Pass        |
| 165     | 5825            | 17.62               | 17.66   | 0.5                 | Pass        |

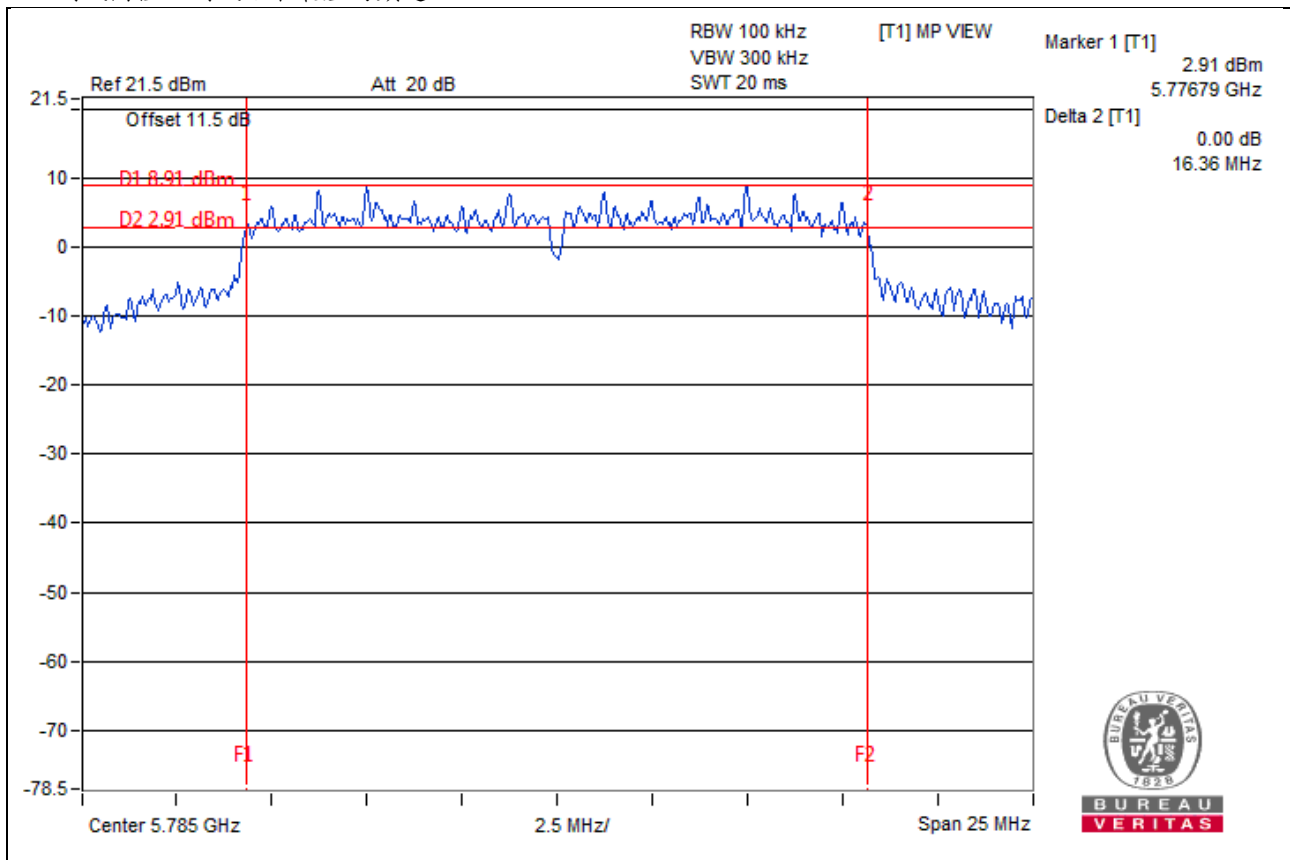
### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 2             | Chain 3 |                     |             |
| 151     | 5755            | 35.87               | 36.29   | 0.5                 | Pass        |
| 159     | 5795            | 35.88               | 36.26   | 0.5                 | Pass        |

### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 2             | Chain 3 |                     |             |
| 155     | 5775            | 75.64               | 75.76   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



### 3TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 05 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 16.40               | 16.36   | 16.37   | 0.5                 | Pass        |
| 157     | 5785            | 16.41               | 16.38   | 16.36   | 0.5                 | Pass        |
| 165     | 5825            | 16.42               | 16.40   | 16.39   | 0.5                 | Pass        |

#### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 17.62               | 17.60   | 17.60   | 0.5                 | Pass        |
| 157     | 5785            | 17.65               | 17.65   | 17.60   | 0.5                 | Pass        |
| 165     | 5825            | 17.66               | 17.62   | 17.62   | 0.5                 | Pass        |

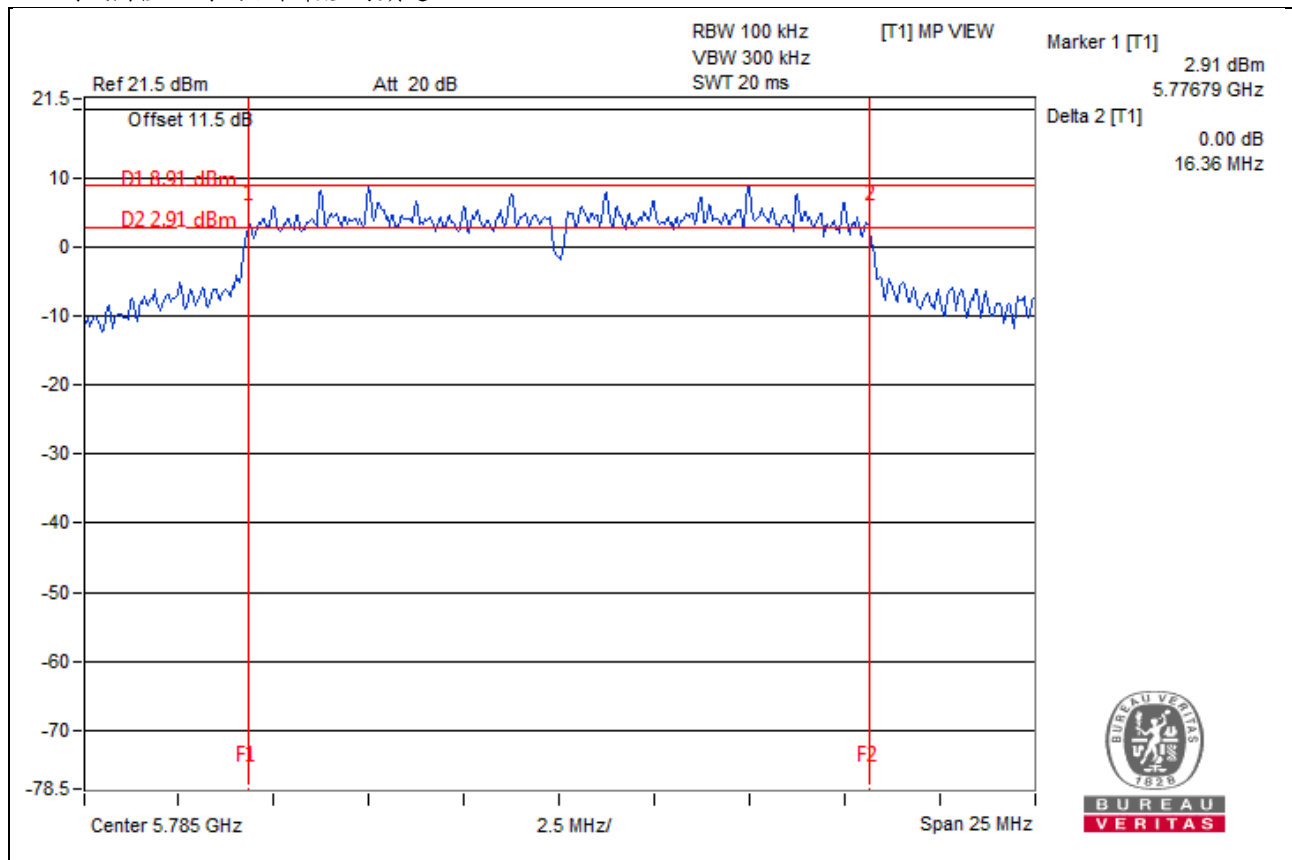
#### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 | Chain 3 |                     |             |
| 151     | 5755            | 36.29               | 36.25   | 35.87   | 0.5                 | Pass        |
| 159     | 5795            | 36.26               | 36.22   | 35.88   | 0.5                 | Pass        |

#### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 | Chain 3 |                     |             |
| 155     | 5775            | 76.03               | 75.49   | 75.50   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



#### 4TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

#### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 16.38               | 16.39   | 16.39   | 16.40   | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 16.43   | 16.46   | 16.43   | 0.5                 | Pass        |
| 165     | 5825            | 16.42               | 16.42   | 16.43   | 16.41   | 0.5                 | Pass        |

#### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 18.92               | 18.80   | 18.70   | 18.86   | 0.5                 | Pass        |
| 157     | 5785            | 18.92               | 18.77   | 18.69   | 18.92   | 0.5                 | Pass        |
| 165     | 5825            | 18.96               | 18.74   | 18.62   | 18.89   | 0.5                 | Pass        |

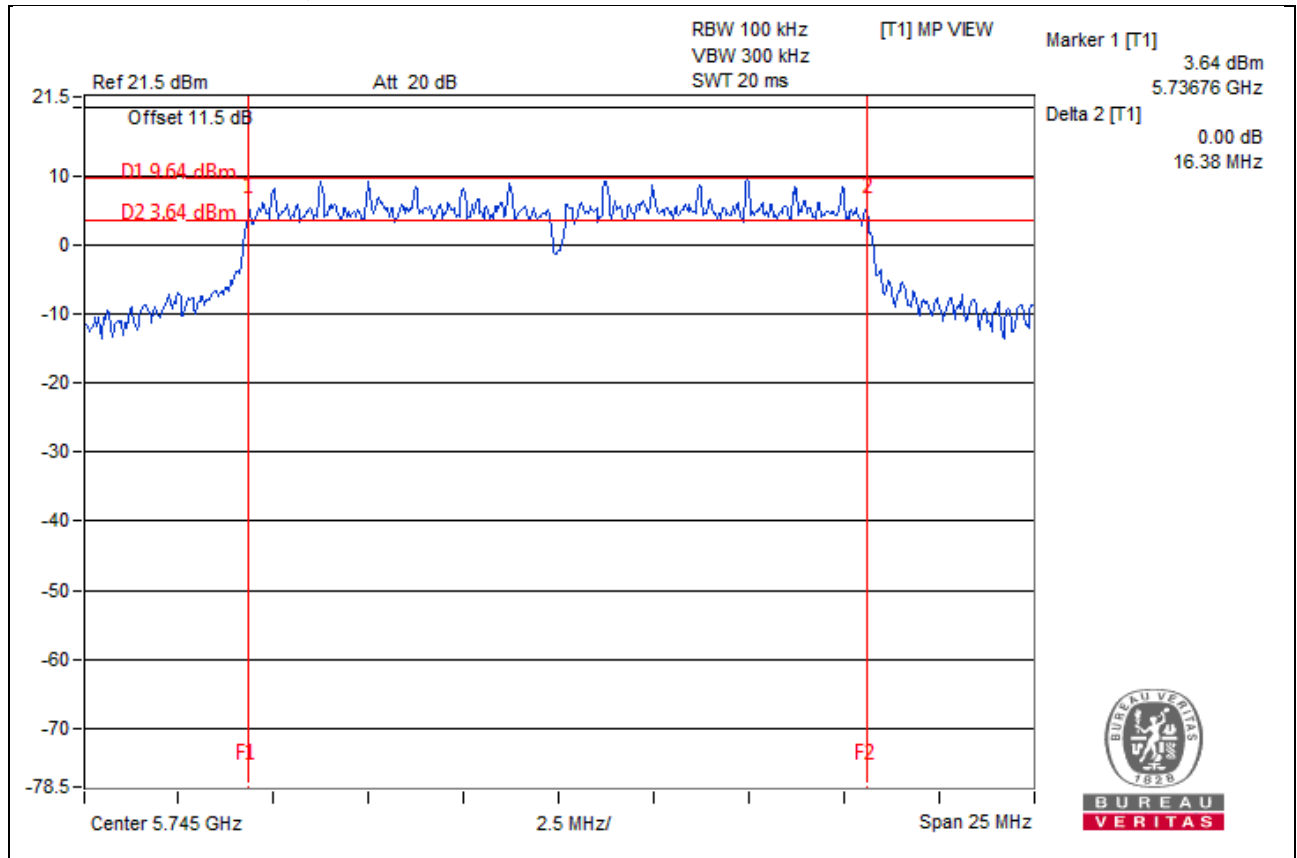
#### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 151     | 5755            | 37.76               | 36.47   | 37.68   | 37.76   | 0.5                 | Pass        |
| 159     | 5795            | 37.72               | 36.37   | 37.68   | 37.73   | 0.5                 | Pass        |

#### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 155     | 5775            | 77.35               | 76.14   | 75.61   | 76.39   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



# Test Mode C - AP43 (Internal antenna) + Eth7 Radio + POE

## 1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 06 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

## 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 149     | 5745            | 16.40               | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 0.5                 | Pass        |
| 165     | 5825            | 16.39               | 0.5                 | Pass        |

## 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 149     | 5745            | 17.63               | 0.5                 | Pass        |
| 157     | 5785            | 17.65               | 0.5                 | Pass        |
| 165     | 5825            | 17.65               | 0.5                 | Pass        |

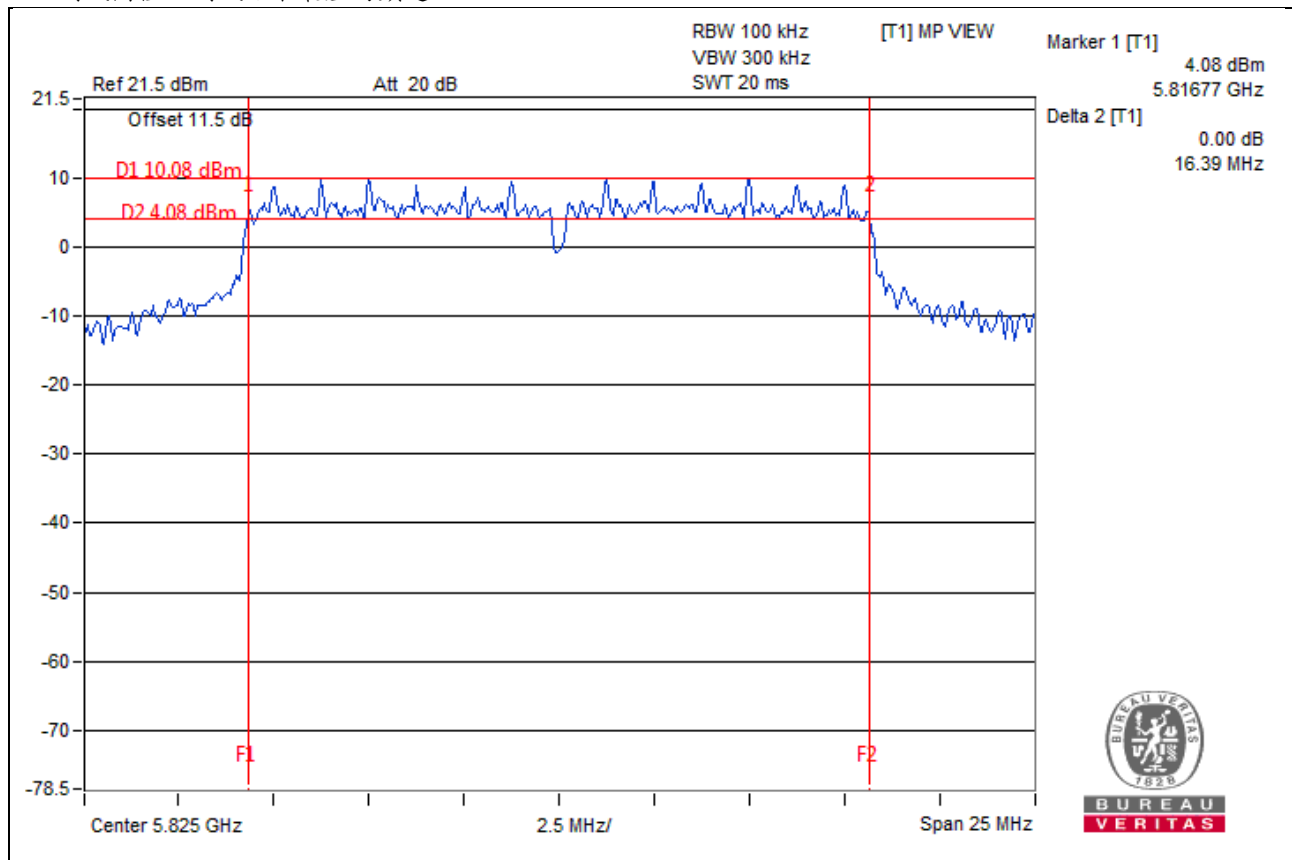
## 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 151     | 5755            | 36.22               | 0.5                 | Pass        |
| 159     | 5795            | 36.36               | 0.5                 | Pass        |

## 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 155     | 5775            | 75.56               | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 149     | 5745            | 16.38               | 16.39   | 0.5                 | Pass        |
| 157     | 5785            | 16.38               | 16.38   | 0.5                 | Pass        |
| 165     | 5825            | 16.39               | 16.40   | 0.5                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 149     | 5745            | 18.57               | 18.90   | 0.5                 | Pass        |
| 157     | 5785            | 18.75               | 18.81   | 0.5                 | Pass        |
| 165     | 5825            | 18.77               | 18.84   | 0.5                 | Pass        |

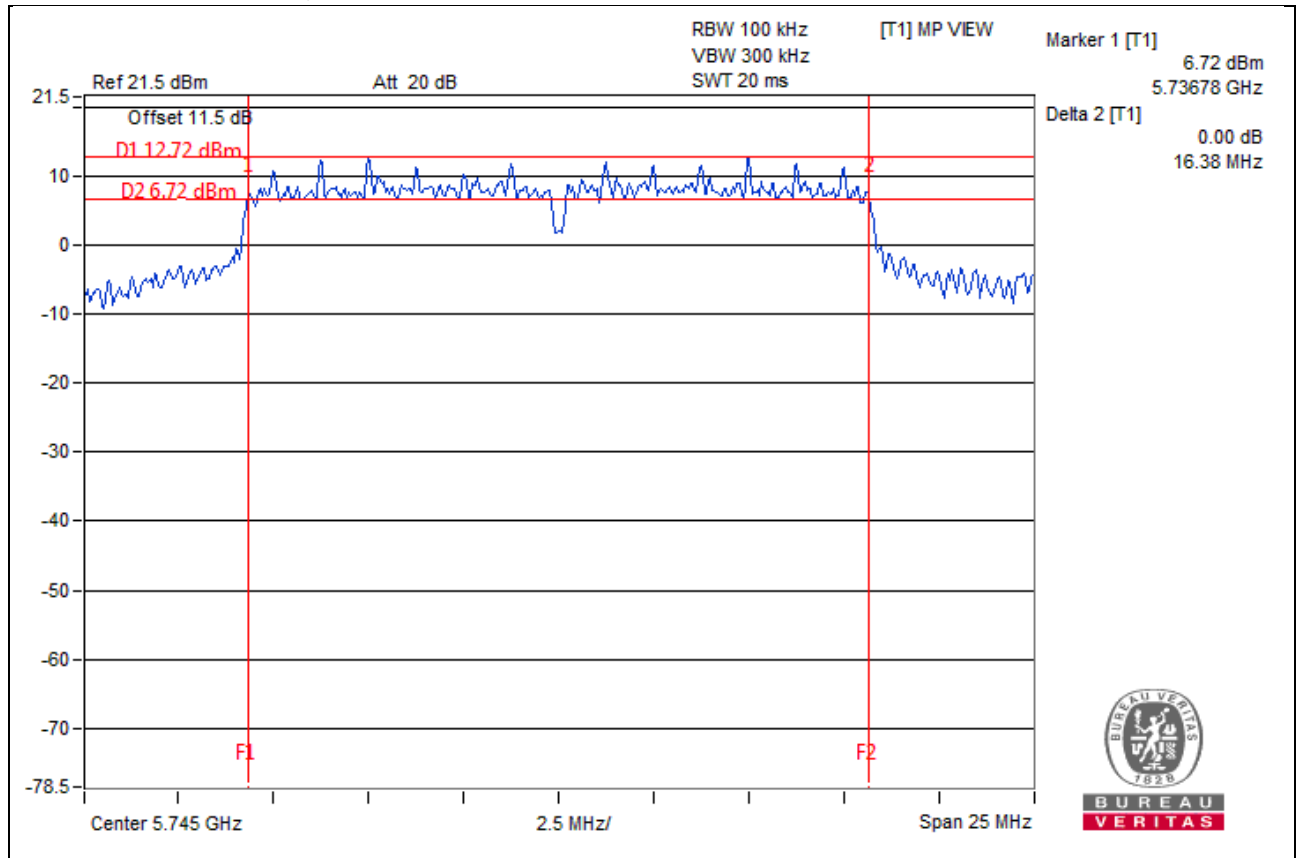
### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 151     | 5755            | 37.75               | 37.74   | 0.5                 | Pass        |
| 159     | 5795            | 37.74               | 37.65   | 0.5                 | Pass        |

### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 155     | 5775            | 76.21               | 75.75   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



# Test Mode E - AP43 (Internal antenna) + Eth8 Radio + POE

## 1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

## 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 1             |                     |             |
| 149     | 5745            | 16.38               | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 0.5                 | Pass        |
| 165     | 5825            | 16.41               | 0.5                 | Pass        |

## 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 1             |                     |             |
| 149     | 5745            | 18.96               | 0.5                 | Pass        |
| 157     | 5785            | 18.97               | 0.5                 | Pass        |
| 165     | 5825            | 18.99               | 0.5                 | Pass        |

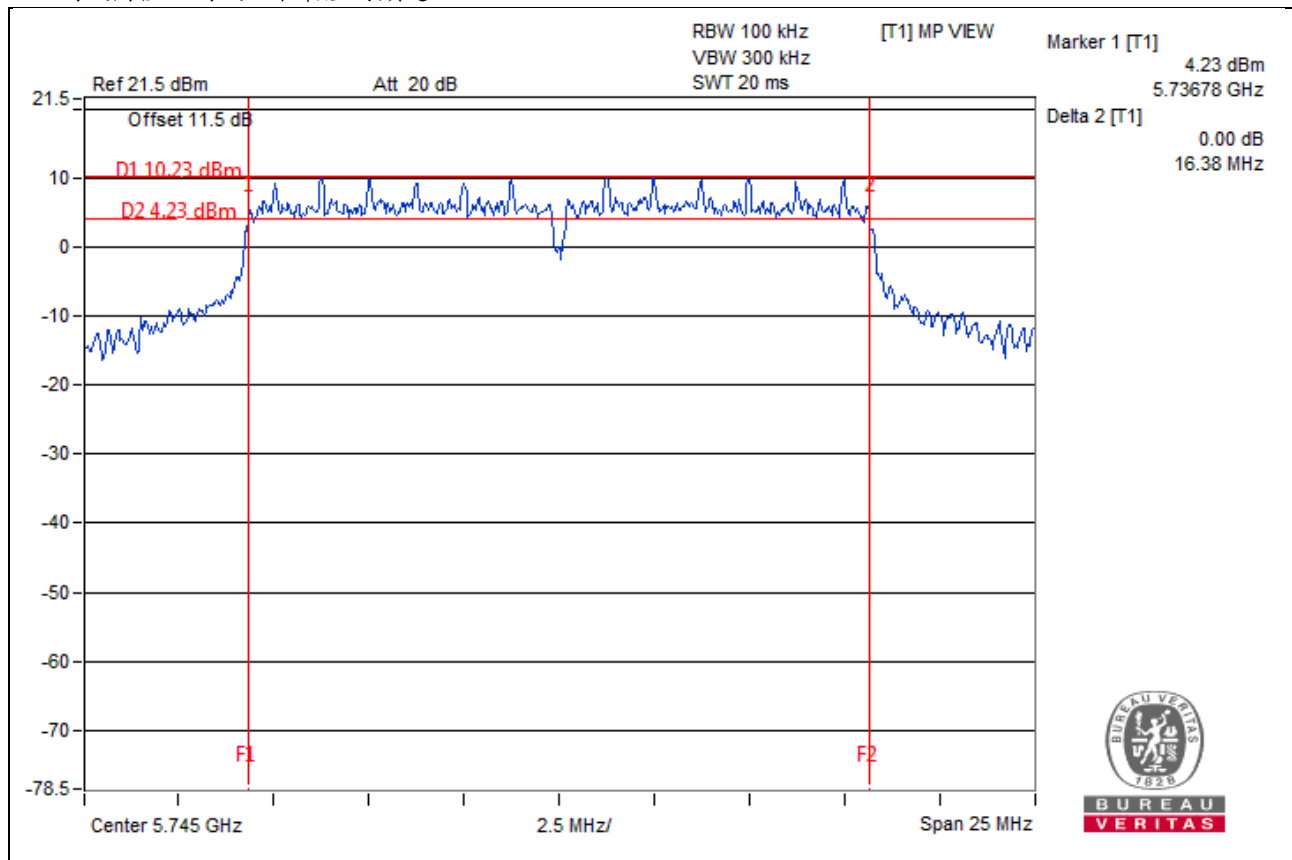
## 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 1             |                     |             |
| 151     | 5755            | 36.13               | 0.5                 | Pass        |
| 159     | 5795            | 37.44               | 0.5                 | Pass        |

## 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 1             |                     |             |
| 155     | 5775            | 75.80               | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 |                     |             |
| 149     | 5745            | 16.37               | 16.38   | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 16.40   | 0.5                 | Pass        |
| 165     | 5825            | 16.39               | 16.41   | 0.5                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 |                     |             |
| 149     | 5745            | 18.79               | 18.96   | 0.5                 | Pass        |
| 157     | 5785            | 18.87               | 18.97   | 0.5                 | Pass        |
| 165     | 5825            | 18.83               | 18.99   | 0.5                 | Pass        |

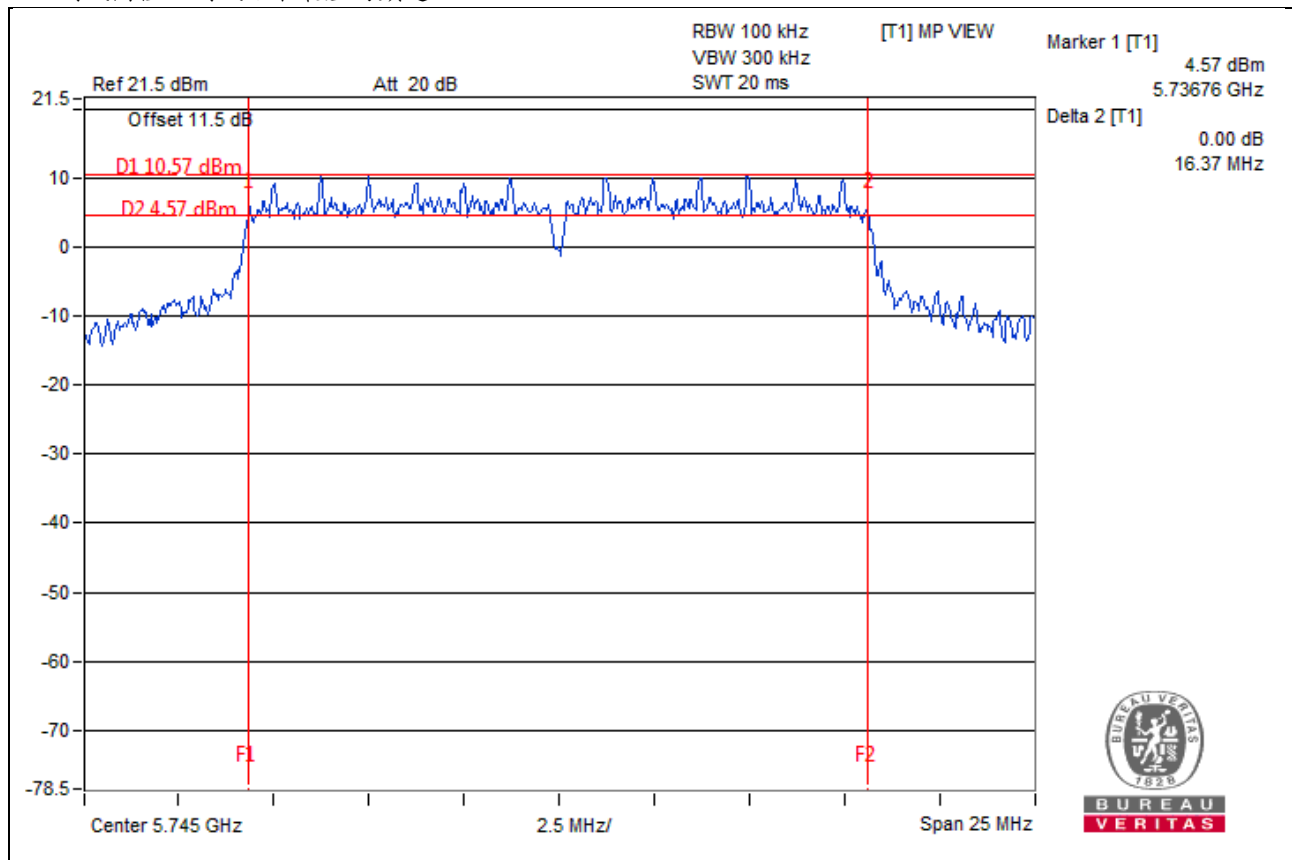
### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 |                     |             |
| 151     | 5755            | 36.41               | 36.13   | 0.5                 | Pass        |
| 159     | 5795            | 37.04               | 37.44   | 0.5                 | Pass        |

### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 |                     |             |
| 155     | 5775            | 75.70               | 76.74   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



### 3TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 03 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 16.37               | 16.37   | 16.38   | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 16.41   | 16.40   | 0.5                 | Pass        |
| 165     | 5825            | 16.39               | 16.40   | 16.41   | 0.5                 | Pass        |

#### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 18.79               | 18.80   | 18.96   | 0.5                 | Pass        |
| 157     | 5785            | 18.87               | 18.80   | 18.97   | 0.5                 | Pass        |
| 165     | 5825            | 18.83               | 18.89   | 18.99   | 0.5                 | Pass        |

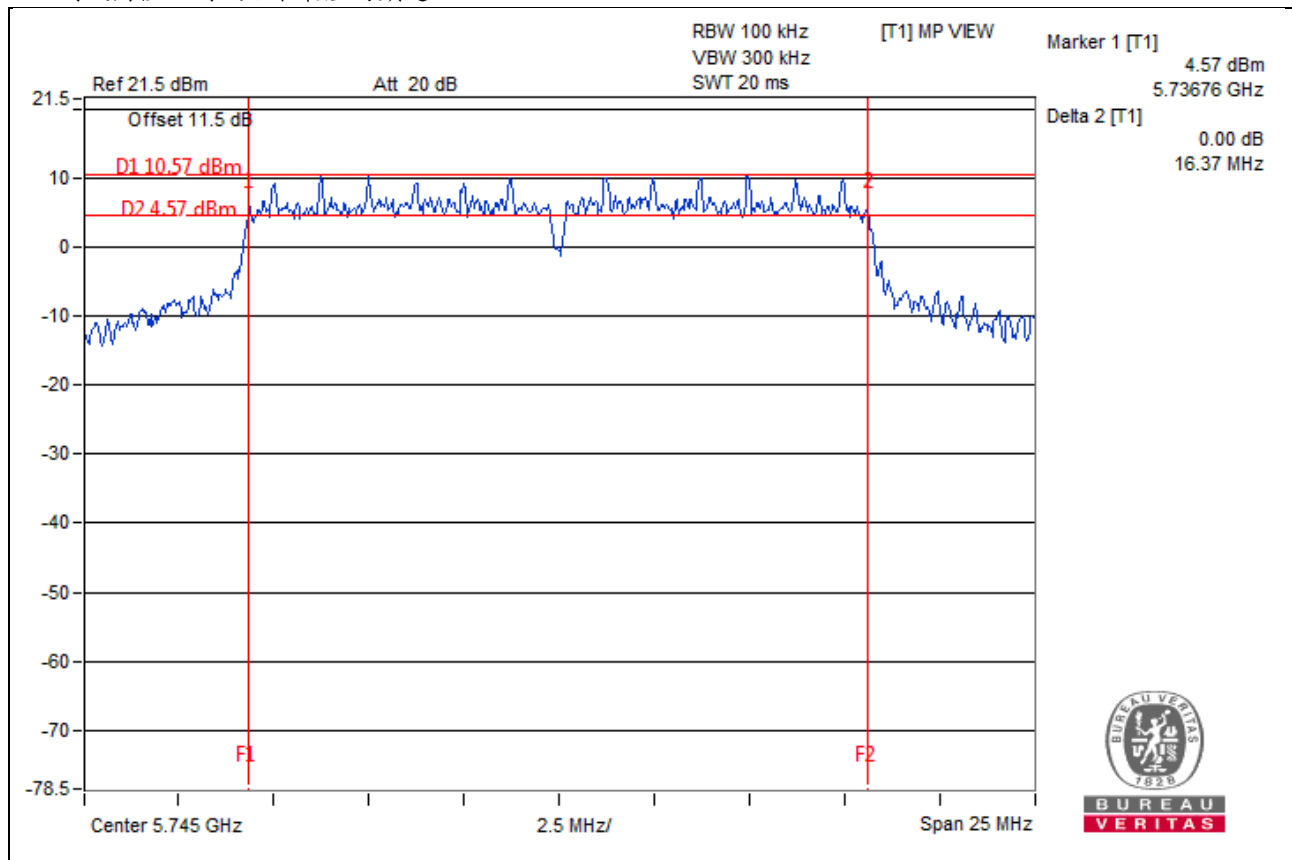
#### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 | Chain 3 |                     |             |
| 151     | 5755            | 36.41               | 36.40   | 36.13   | 0.5                 | Pass        |
| 159     | 5795            | 37.04               | 37.44   | 37.44   | 0.5                 | Pass        |

#### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 | Chain 3 |                     |             |
| 155     | 5775            | 76.44               | 75.99   | 75.48   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



#### 4TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

#### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 16.38               | 16.37   | 16.37   | 16.39   | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 16.40   | 16.41   | 16.41   | 0.5                 | Pass        |
| 165     | 5825            | 16.41               | 16.39   | 16.40   | 16.40   | 0.5                 | Pass        |

#### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 18.96               | 18.79   | 18.80   | 18.94   | 0.5                 | Pass        |
| 157     | 5785            | 18.97               | 18.87   | 18.80   | 18.95   | 0.5                 | Pass        |
| 165     | 5825            | 18.99               | 18.83   | 18.89   | 18.86   | 0.5                 | Pass        |

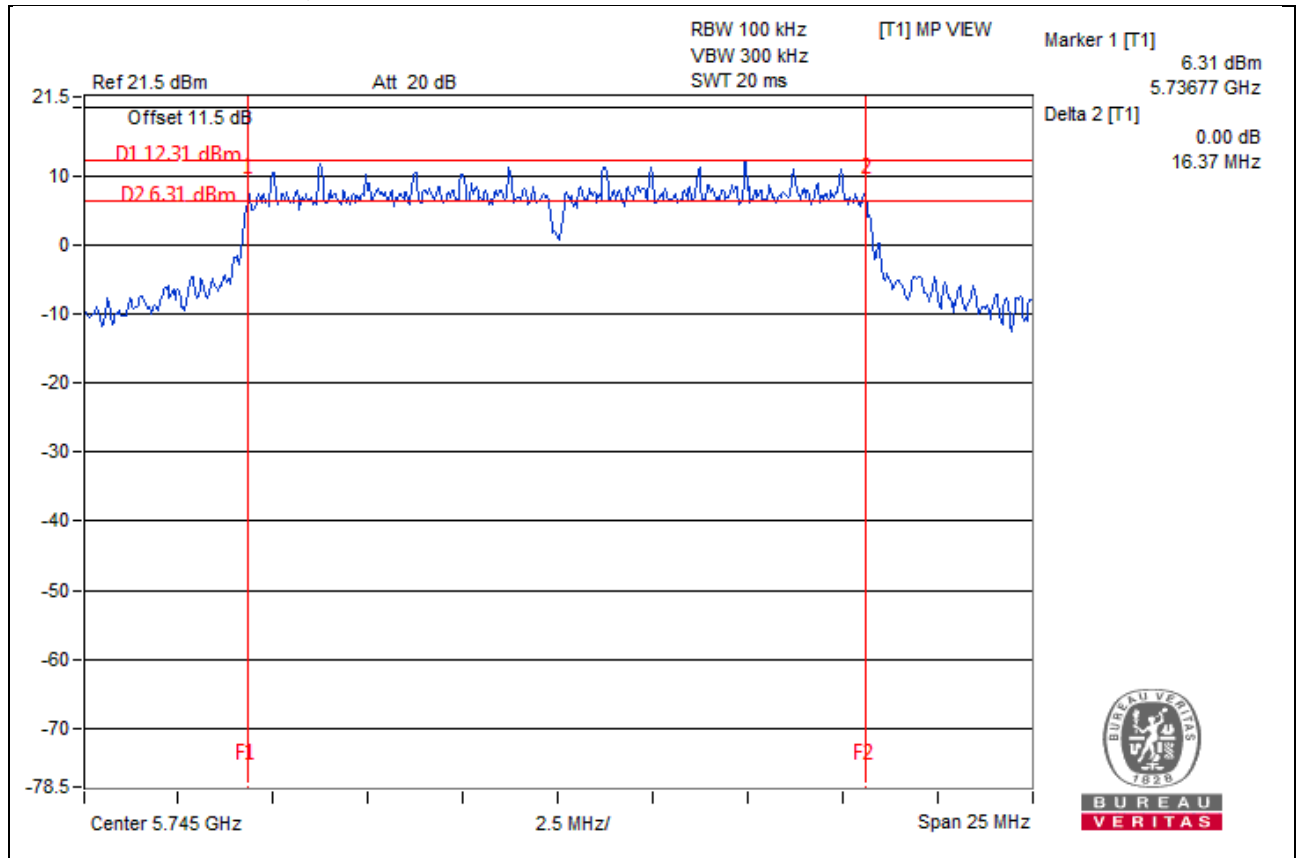
#### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 151     | 5755            | 37.39               | 37.44   | 37.41   | 36.97   | 0.5                 | Pass        |
| 159     | 5795            | 37.44               | 37.04   | 37.44   | 37.06   | 0.5                 | Pass        |

#### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 155     | 5775            | 77.27               | 77.46   | 76.51   | 76.36   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



Test Mode G - AP43E (External antenna - PN: ATS-OO-245-46-4RPSP-36) + Eth6 Radio + POE

1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 1             |                     |             |
| 149     | 5745            | 16.40               | 0.5                 | Pass        |
| 157     | 5785            | 16.38               | 0.5                 | Pass        |
| 165     | 5825            | 16.38               | 0.5                 | Pass        |

802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 1             |                     |             |
| 149     | 5745            | 17.63               | 0.5                 | Pass        |
| 157     | 5785            | 17.64               | 0.5                 | Pass        |
| 165     | 5825            | 17.64               | 0.5                 | Pass        |

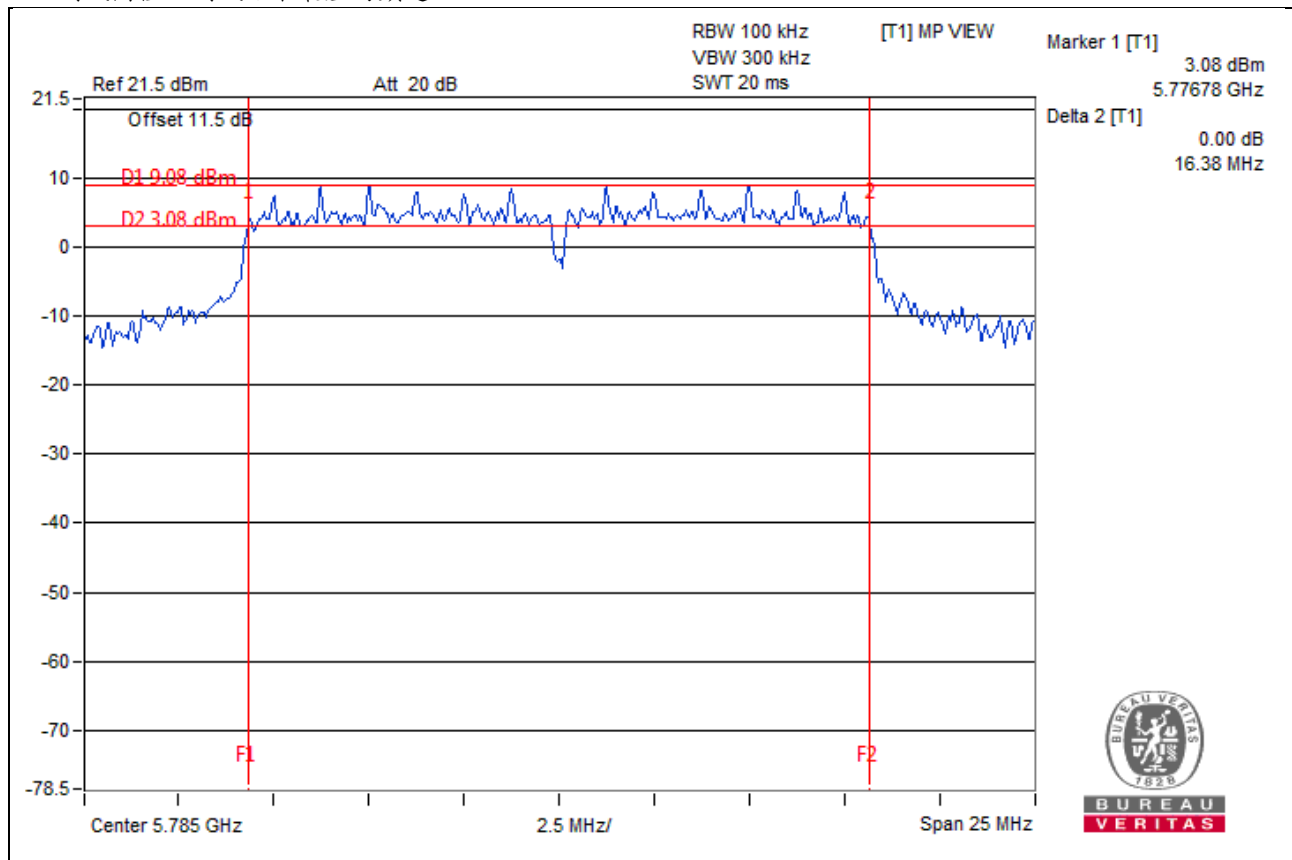
802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 1             |                     |             |
| 151     | 5755            | 36.24               | 0.5                 | Pass        |
| 159     | 5795            | 36.08               | 0.5                 | Pass        |

802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 1             |                     |             |
| 155     | 5775            | 75.50               | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 |                     |             |
| 149     | 5745            | 16.38               | 16.40   | 0.5                 | Pass        |
| 157     | 5785            | 16.41               | 16.38   | 0.5                 | Pass        |
| 165     | 5825            | 16.41               | 16.38   | 0.5                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 |                     |             |
| 149     | 5745            | 17.65               | 17.63   | 0.5                 | Pass        |
| 157     | 5785            | 17.66               | 17.64   | 0.5                 | Pass        |
| 165     | 5825            | 17.65               | 17.64   | 0.5                 | Pass        |

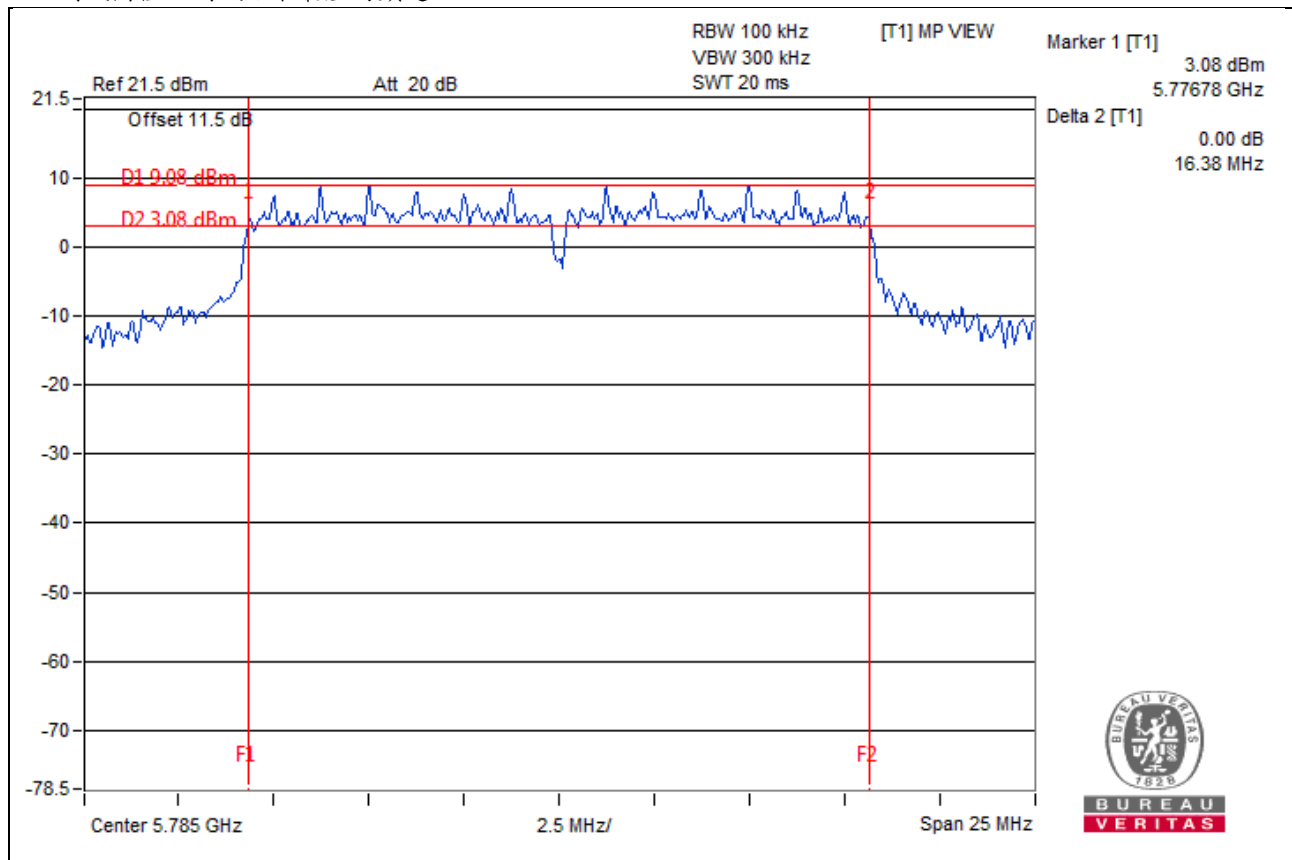
### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 |                     |             |
| 151     | 5755            | 36.44               | 36.24   | 0.5                 | Pass        |
| 159     | 5795            | 36.47               | 36.08   | 0.5                 | Pass        |

### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 1             | Chain 2 |                     |             |
| 155     | 5775            | 76.00               | 75.61   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



### 3TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 07 月 01 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 149     | 5745            | 16.40               | 16.38   | 16.39   | 0.5                 | Pass        |
| 157     | 5785            | 16.38               | 16.41   | 16.39   | 0.5                 | Pass        |
| 165     | 5825            | 16.38               | 16.41   | 16.39   | 0.5                 | Pass        |

#### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 149     | 5745            | 17.63               | 17.65   | 17.61   | 0.5                 | Pass        |
| 157     | 5785            | 17.64               | 17.66   | 17.62   | 0.5                 | Pass        |
| 165     | 5825            | 17.63               | 17.64   | 17.63   | 0.5                 | Pass        |

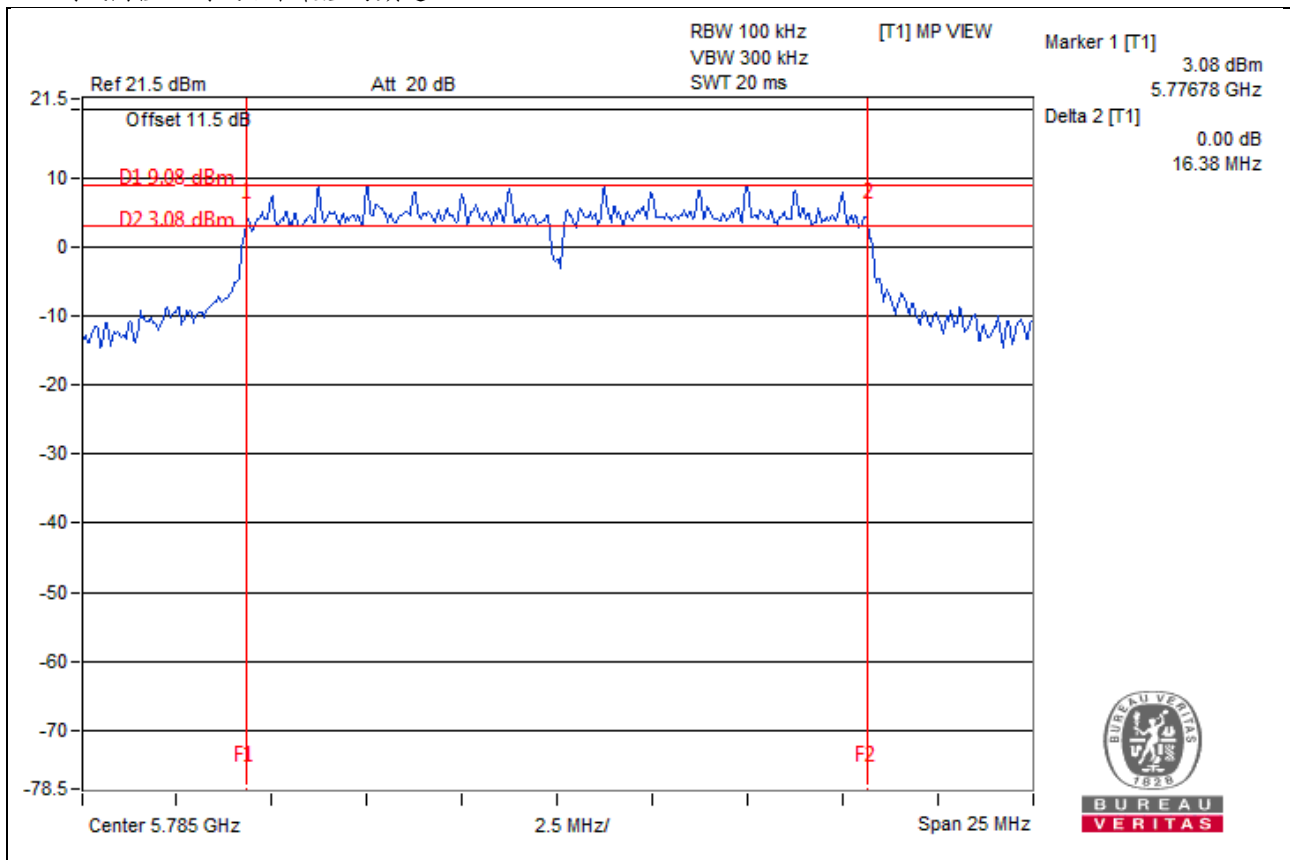
#### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 151     | 5755            | 36.24               | 36.44   | 36.43   | 0.5                 | Pass        |
| 159     | 5795            | 36.24               | 36.45   | 36.44   | 0.5                 | Pass        |

#### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 155     | 5775            | 75.75               | 76.13   | 75.60   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



#### 4TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

#### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 16.38               | 16.39   | 16.39   | 16.40   | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 16.43   | 16.46   | 16.43   | 0.5                 | Pass        |
| 165     | 5825            | 16.42               | 16.42   | 16.43   | 16.41   | 0.5                 | Pass        |

#### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 18.92               | 18.80   | 18.70   | 18.86   | 0.5                 | Pass        |
| 157     | 5785            | 18.92               | 18.77   | 18.69   | 18.92   | 0.5                 | Pass        |
| 165     | 5825            | 18.96               | 18.74   | 18.62   | 18.89   | 0.5                 | Pass        |

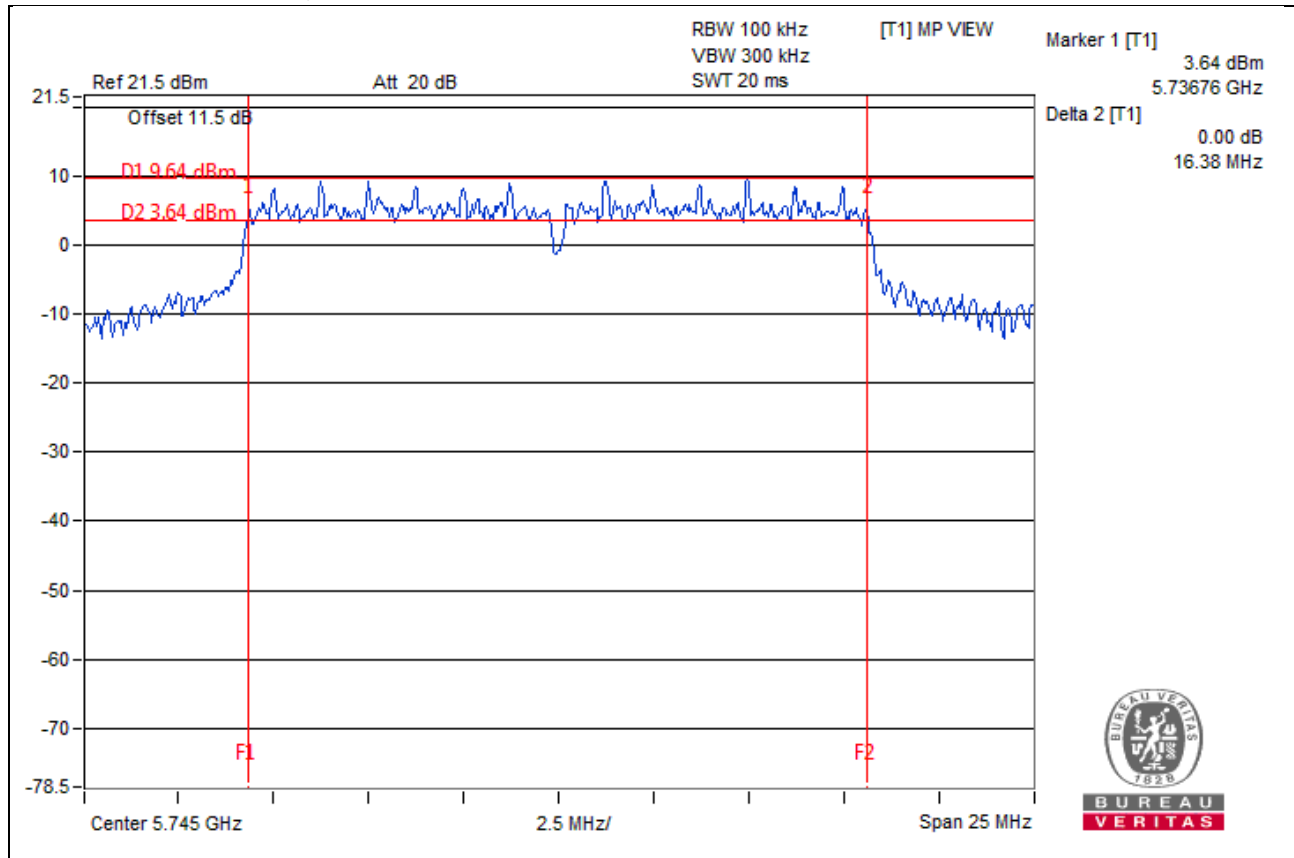
#### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 151     | 5755            | 37.76               | 36.47   | 37.68   | 37.76   | 0.5                 | Pass        |
| 159     | 5795            | 37.72               | 36.37   | 37.68   | 37.73   | 0.5                 | Pass        |

#### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 155     | 5775            | 77.35               | 76.14   | 75.61   | 76.39   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



Test Mode I - AP43E (External antenna - PN: ATS-OO-245-46-4RPSP-36) + Eth7 Radio + POE

1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 149     | 5745            | 16.38               | 0.5                 | Pass        |
| 157     | 5785            | 16.38               | 0.5                 | Pass        |
| 165     | 5825            | 16.39               | 0.5                 | Pass        |

802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 149     | 5745            | 18.57               | 0.5                 | Pass        |
| 157     | 5785            | 18.75               | 0.5                 | Pass        |
| 165     | 5825            | 18.77               | 0.5                 | Pass        |

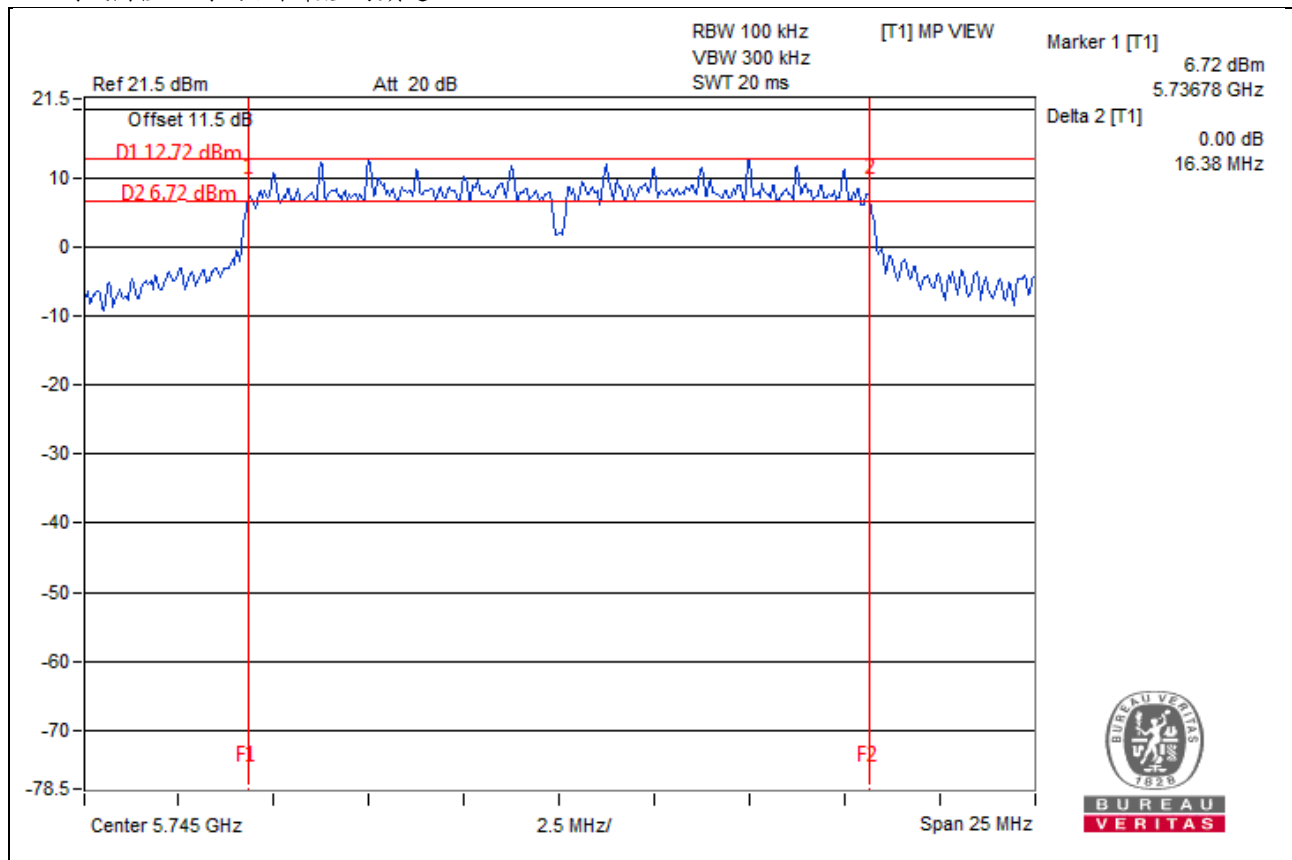
802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 151     | 5755            | 37.75               | 0.5                 | Pass        |
| 159     | 5795            | 37.74               | 0.5                 | Pass        |

802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 155     | 5775            | 75.52               | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 03 月 28 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 劉福龍  |        |                 |

### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 149     | 5745            | 16.38               | 16.39   | 0.5                 | Pass        |
| 157     | 5785            | 16.38               | 16.38   | 0.5                 | Pass        |
| 165     | 5825            | 16.39               | 16.40   | 0.5                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 149     | 5745            | 18.57               | 18.90   | 0.5                 | Pass        |
| 157     | 5785            | 18.75               | 18.81   | 0.5                 | Pass        |
| 165     | 5825            | 18.77               | 18.84   | 0.5                 | Pass        |

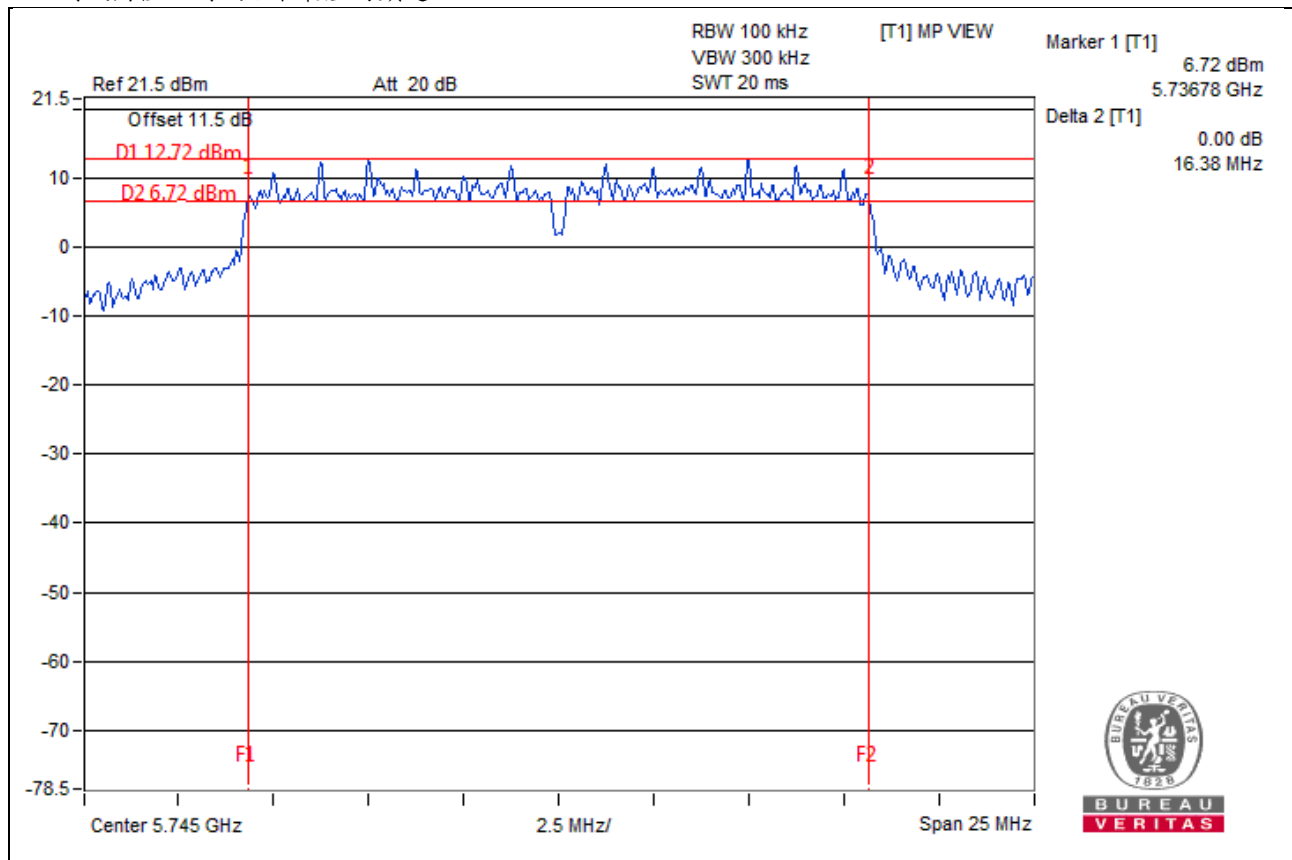
### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 151     | 5755            | 37.75               | 37.74   | 0.5                 | Pass        |
| 159     | 5795            | 37.74               | 37.65   | 0.5                 | Pass        |

### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 155     | 5775            | 76.21               | 75.75   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



Test Mode K - AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth6 Radio + POE

1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 149     | 5745            | 16.37               | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 0.5                 | Pass        |
| 165     | 5825            | 16.44               | 0.5                 | Pass        |

802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 149     | 5745            | 17.64               | 0.5                 | Pass        |
| 157     | 5785            | 17.64               | 0.5                 | Pass        |
| 165     | 5825            | 17.66               | 0.5                 | Pass        |

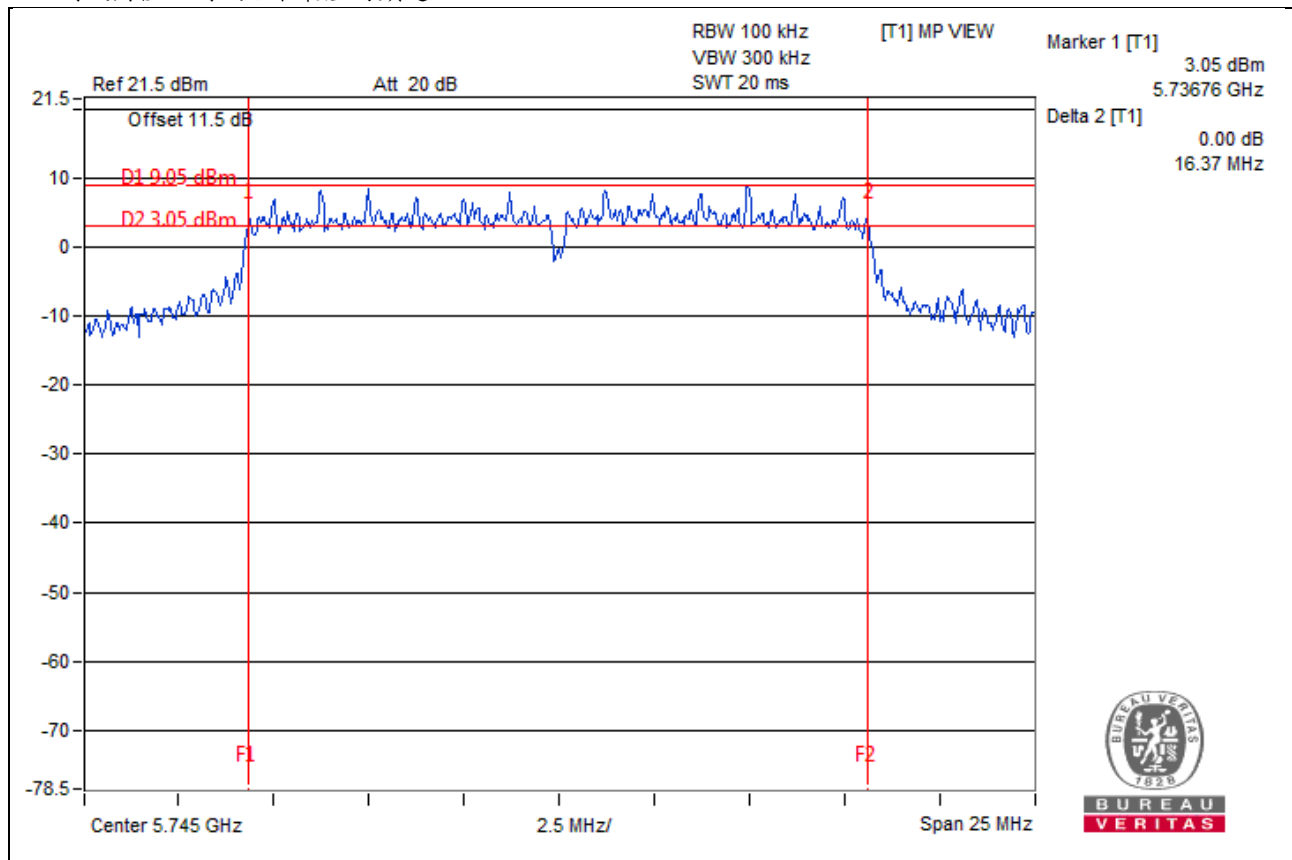
802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 151     | 5755            | 36.20               | 0.5                 | Pass        |
| 159     | 5795            | 36.18               | 0.5                 | Pass        |

802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 155     | 5775            | 75.48               | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 149     | 5745            | 16.37               | 16.41   | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 16.42   | 0.5                 | Pass        |
| 165     | 5825            | 16.44               | 16.42   | 0.5                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 149     | 5745            | 17.64               | 17.66   | 0.5                 | Pass        |
| 157     | 5785            | 17.64               | 17.63   | 0.5                 | Pass        |
| 165     | 5825            | 17.66               | 17.66   | 0.5                 | Pass        |

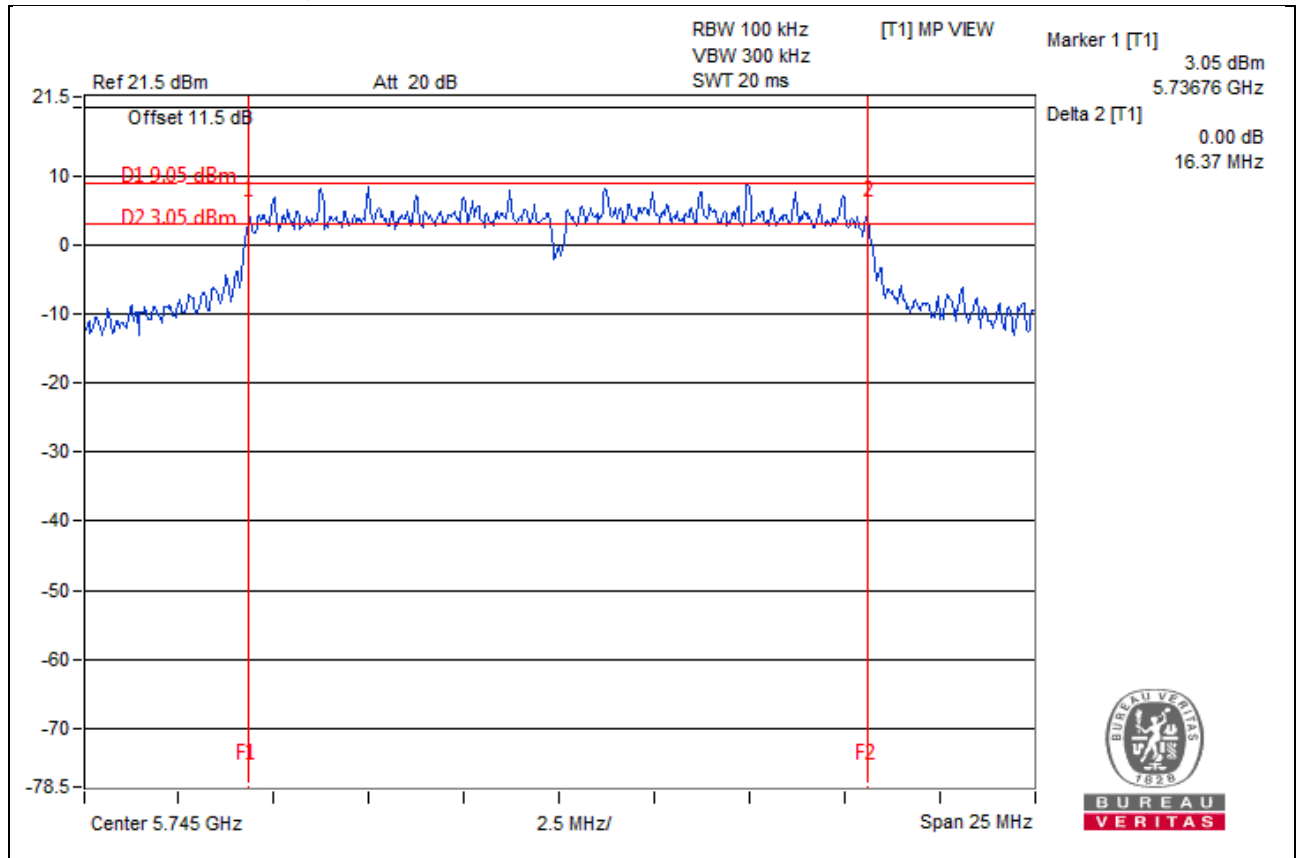
### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 151     | 5755            | 36.20               | 36.42   | 0.5                 | Pass        |
| 159     | 5795            | 36.18               | 36.19   | 0.5                 | Pass        |

### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 155     | 5775            | 75.48               | 75.45   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



### 3TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 149     | 5745            | 16.37               | 16.41   | 16.40   | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 16.42   | 16.42   | 0.5                 | Pass        |
| 165     | 5825            | 16.44               | 16.42   | 16.41   | 0.5                 | Pass        |

#### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 149     | 5745            | 17.64               | 17.66   | 17.63   | 0.5                 | Pass        |
| 157     | 5785            | 17.64               | 17.63   | 17.63   | 0.5                 | Pass        |
| 165     | 5825            | 17.66               | 17.66   | 17.64   | 0.5                 | Pass        |

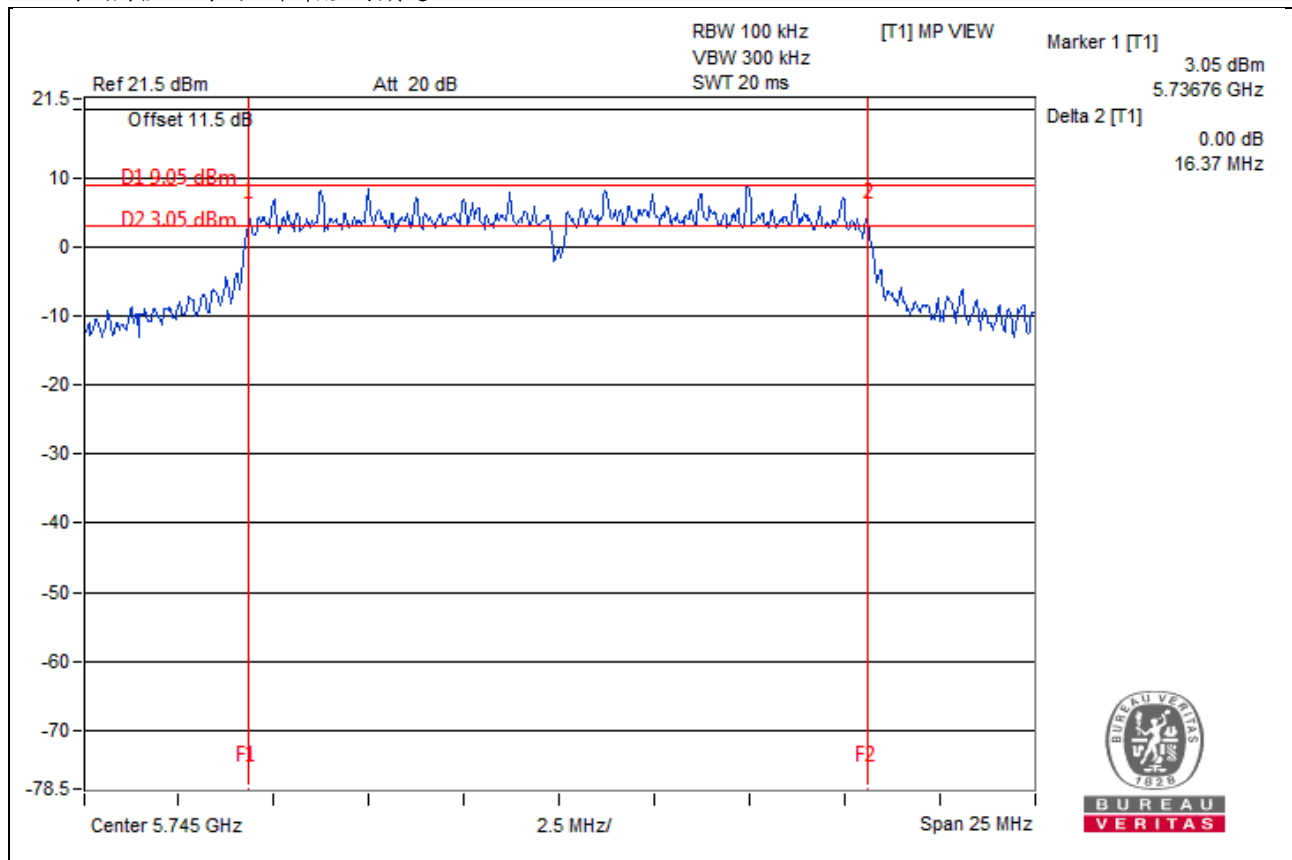
#### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 151     | 5755            | 36.20               | 36.42   | 36.25   | 0.5                 | Pass        |
| 159     | 5795            | 36.18               | 36.19   | 36.43   | 0.5                 | Pass        |

#### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 155     | 5775            | 75.44               | 75.51   | 75.42   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



#### 4TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 10 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

#### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 16.37               | 16.41   | 16.40   | 16.42   | 0.5                 | Pass        |
| 157     | 5785            | 16.40               | 16.42   | 16.42   | 16.43   | 0.5                 | Pass        |
| 165     | 5825            | 16.44               | 16.42   | 16.41   | 16.42   | 0.5                 | Pass        |

#### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 149     | 5745            | 17.64               | 17.66   | 17.63   | 17.65   | 0.5                 | Pass        |
| 157     | 5785            | 17.64               | 17.63   | 17.63   | 17.63   | 0.5                 | Pass        |
| 165     | 5825            | 17.66               | 17.66   | 17.64   | 17.66   | 0.5                 | Pass        |

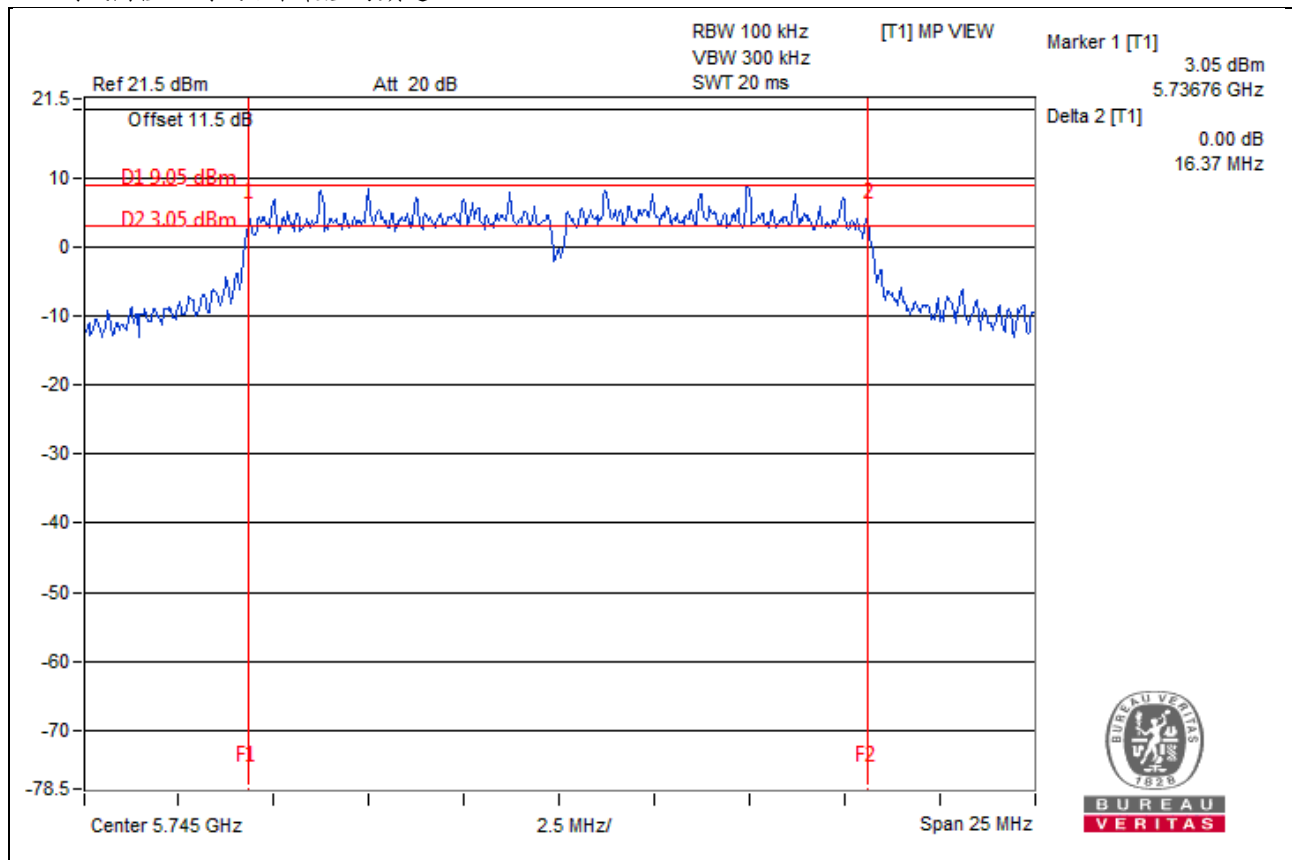
#### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 151     | 5755            | 36.20               | 36.42   | 36.25   | 36.17   | 0.5                 | Pass        |
| 159     | 5795            | 36.18               | 36.19   | 36.43   | 36.07   | 0.5                 | Pass        |

#### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 155     | 5775            | 75.55               | 75.56   | 75.96   | 75.53   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



Test Mode M - AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth7 Radio + POE

1TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 149     | 5745            | 16.38               | 0.5                 | Pass        |
| 157     | 5785            | 16.38               | 0.5                 | Pass        |
| 165     | 5825            | 16.39               | 0.5                 | Pass        |

802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 149     | 5745            | 18.57               | 0.5                 | Pass        |
| 157     | 5785            | 18.75               | 0.5                 | Pass        |
| 165     | 5825            | 18.77               | 0.5                 | Pass        |

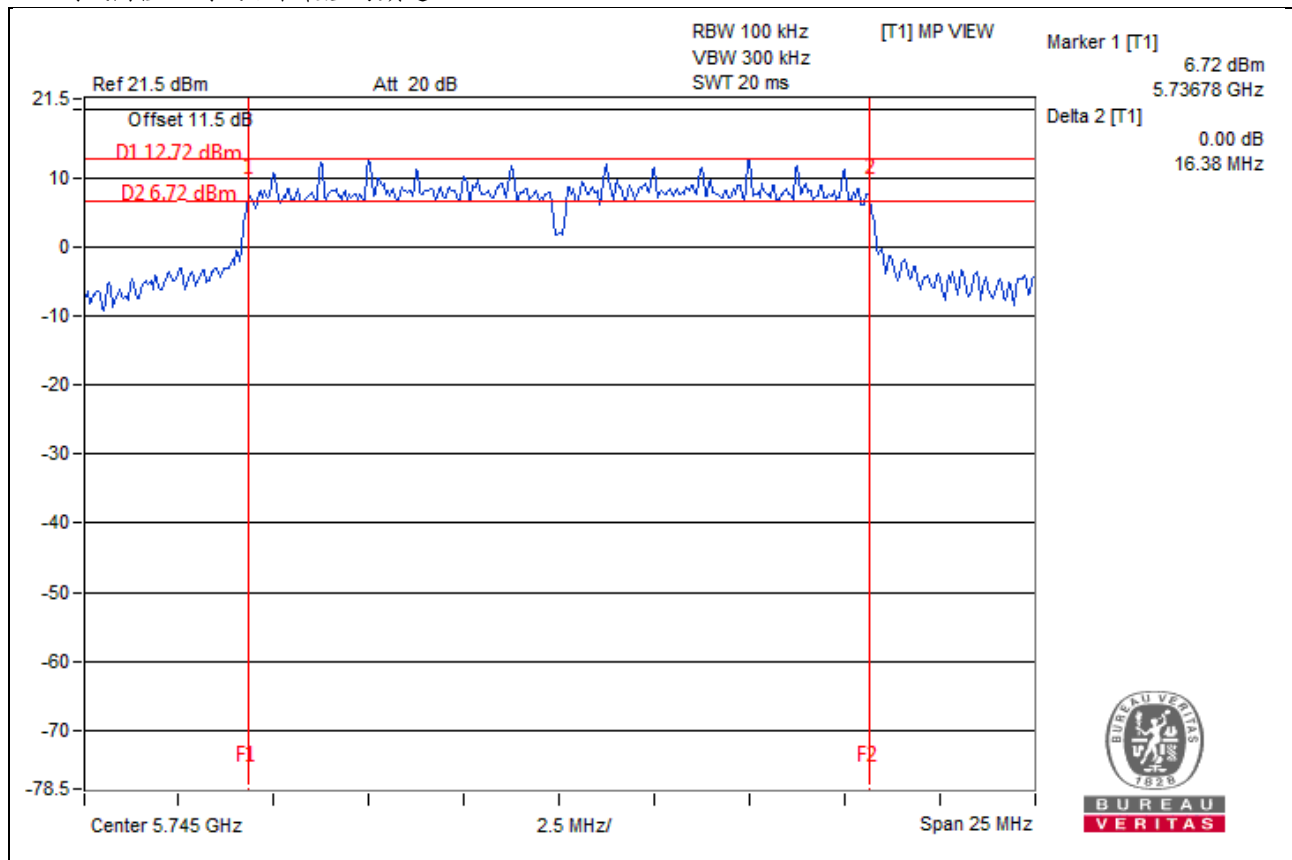
802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 151     | 5755            | 37.75               | 0.5                 | Pass        |
| 159     | 5795            | 37.74               | 0.5                 | Pass        |

802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
|         |                 | Chain 0             |                     |             |
| 155     | 5775            | 75.48               | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



## 2TX

|        |      |        |                 |
|--------|------|--------|-----------------|
| 操作模式   | 發射   | 測試日期   | 108 年 09 月 04 日 |
| 量測場地溫度 | 25°C | 量測場地濕度 | 60%RH           |
| 測試者    | 吳佳衡  |        |                 |

### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 149     | 5745            | 16.38               | 16.39   | 0.5                 | Pass        |
| 157     | 5785            | 16.38               | 16.38   | 0.5                 | Pass        |
| 165     | 5825            | 16.39               | 16.40   | 0.5                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 149     | 5745            | 18.57               | 18.90   | 0.5                 | Pass        |
| 157     | 5785            | 18.75               | 18.81   | 0.5                 | Pass        |
| 165     | 5825            | 18.77               | 18.84   | 0.5                 | Pass        |

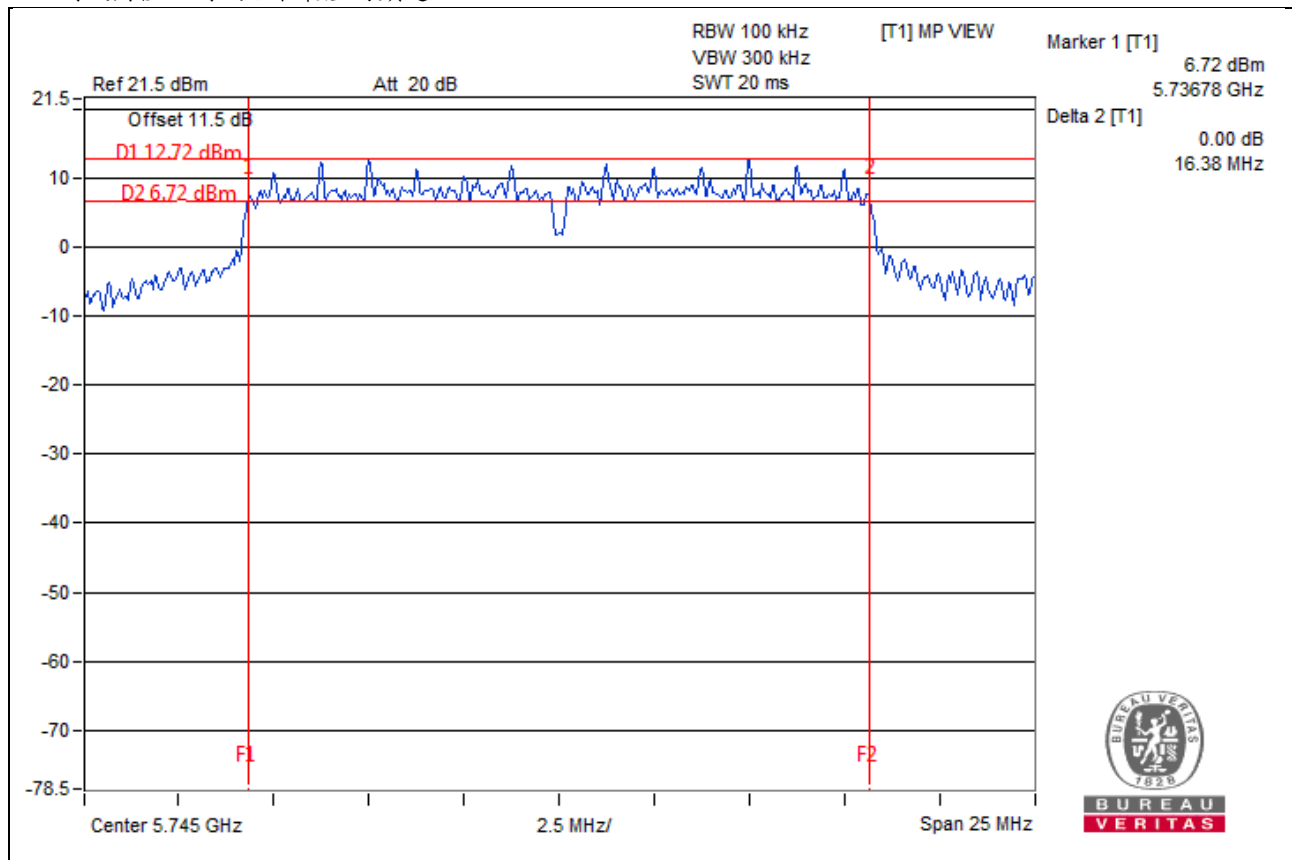
### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 151     | 5755            | 37.75               | 37.74   | 0.5                 | Pass        |
| 159     | 5795            | 37.74               | 37.65   | 0.5                 | Pass        |

### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 155     | 5775            | 75.54               | 76.06   | 0.5                 | Pass        |

\*\*此測試圖僅放測試結果最差的頻道。



## 8.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

## 9 檢測實驗室基本資料

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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)

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