

For 150kHz-30MHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 9kHz     |
| VBW                 | 9kHz     |
| Start frequency     | 150kHz   |
| Stop frequency      | 30MHz    |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

Note: For 150kHz-490kHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 120kHz   |
| VBW                 | 300kHz   |
| Start frequency     | 30MHz    |
| Stop frequency      | 1GHz     |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

For Above 1GHz

| Spectrum Parameters | Setting          |                                                                                                                   |
|---------------------|------------------|-------------------------------------------------------------------------------------------------------------------|
| RBW                 | 1MHz             |                                                                                                                   |
| VBW                 | PEAK Measurement | AVG Measurement                                                                                                   |
|                     | 3MHz             | Duty cycle $\geq$ 98%,VBW=10Hz<br>Duty cycle $<$ 98%,VBW $\geq$ 1/T<br>Video bandwidth mode=RMS (power averaging) |
| Start frequency     | 1GHz             |                                                                                                                   |
| Stop frequency      | 40GHz            |                                                                                                                   |
| Sweep Time          | Auto             |                                                                                                                   |
| Detector            | PEAK             |                                                                                                                   |
| Trace Mode          | Max Hold         |                                                                                                                   |

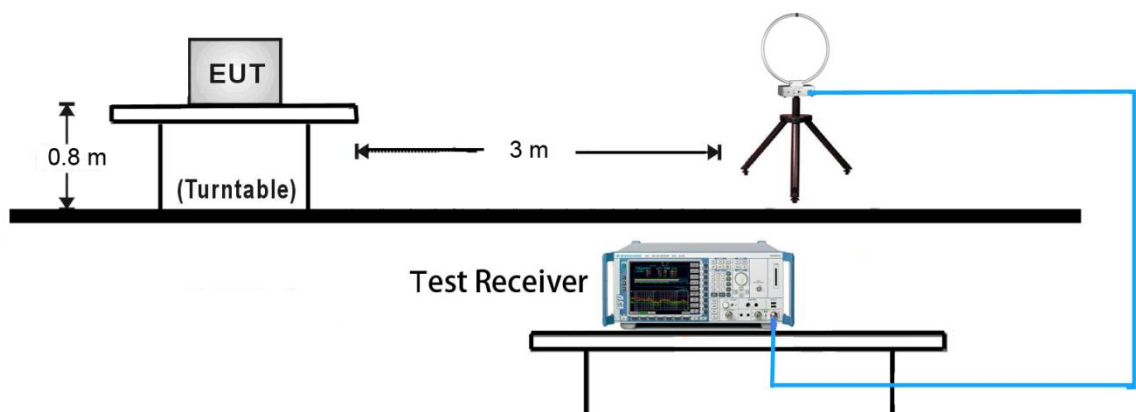
#### Note:

- (1) T is the on-time time of the duty cycle, when EUT transmit continuously with maximum output power, unit is seconds. reference section 2.9 for the on-time time.
- (2) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:  

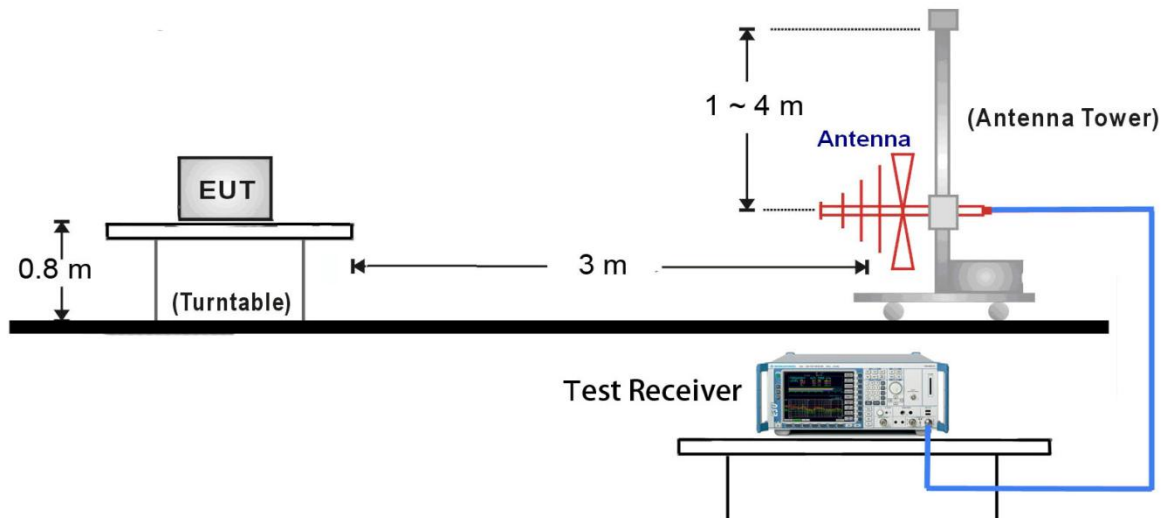
$$E = \text{EIRP} - 20 \log D + 104.8$$
 where:  
 E = electric field strength in dB $\mu$ V/m,  
 EIRP = equivalent isotropic radiated power in dBm  
 D = specified measurement distance in meters.  
 So:  $E = -27 - 20 \log 3 + 104.8 = 68.3 \text{ (dB}\mu\text{V/m)}.$
- (3) The unwanted emissions which fall in Restricted bands shall not exceed the field strength ,Above 18G test distance is 1m, so the Peak Limit= $74 + 20 \cdot \log(3/1) = 83.54 \text{ (dB}\mu\text{V/m)}.$   
 The Avg Limit= $54 + 20 \cdot \log(3/1) = 63.54 \text{ (dB}\mu\text{V/m)}.$
- (4) The maximum emissions of the operation frequency bands ,Above 18G test distance is 1m, so the Peak Limit= $68.3 + 20 \cdot \log(3/1) = 77.84 \text{ (dB}\mu\text{V/m)}.$

### 7.6.3. Test Setup

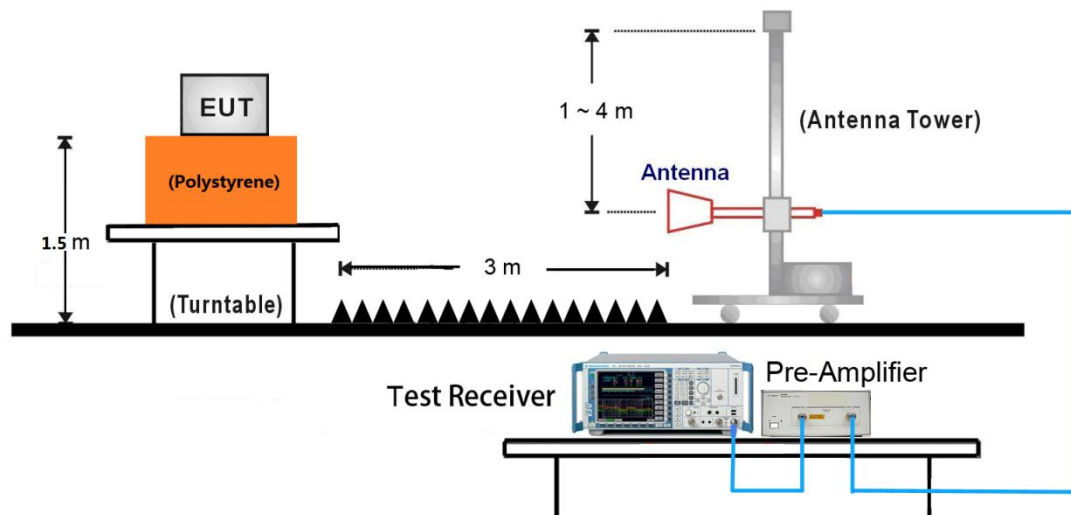
#### 9kHz ~ 30MHz Test Setup:



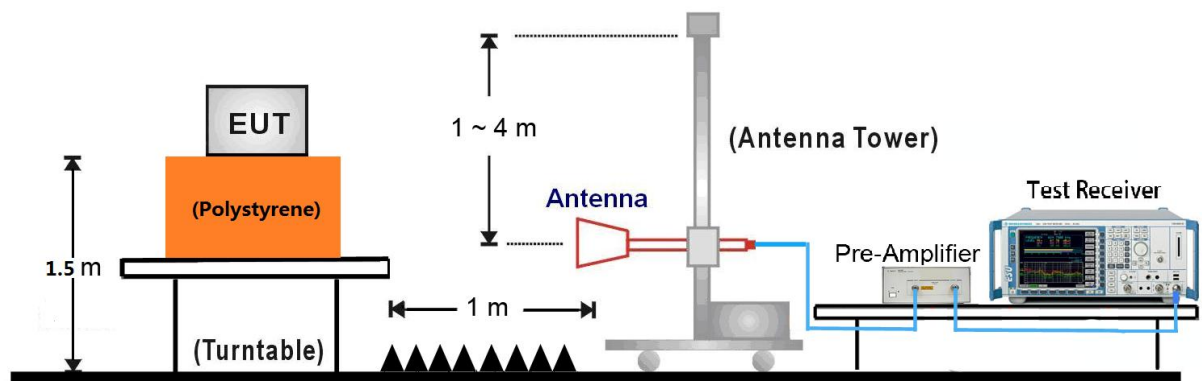
### 30MHz ~ 1GHz Test Setup:



### 1GHz ~ 18GHz Test Setup:



### 18GHz ~ 40GHz Test Setup:



## 7.6.4. DATA SAMPLE

### Below 1GHz

| Suspected Data List |                |                     |                   |                |                   |                |       |                |              |            |
|---------------------|----------------|---------------------|-------------------|----------------|-------------------|----------------|-------|----------------|--------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Trace | Height<br>[cm] | Angle<br>[°] | Polarity   |
| xxxx                | xxxx           | 66.85               | 31.09             | -35.76         | 40.00             | 8.91           | PK    | 200            | 351          | Horizontal |

| Final Data List |                |                |                           |                   |                      |                   |                |              |            |
|-----------------|----------------|----------------|---------------------------|-------------------|----------------------|-------------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Factor<br>[dB] | QP<br>Reading<br>[dBμV/m] | Level<br>[dBμV/m] | QP Limit<br>[dBμV/m] | QP Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| xxxx            | xxxx           | -31.57         | 71.28                     | 39.71             | 46.00                | 6.29              | 100            | 196          | Horizontal |

|                  |                                                |
|------------------|------------------------------------------------|
| Frequency (MHz)  | = Emission frequency in MHz                    |
| Reading (dBuV/m) | = Uncorrected Analyzer / Receiver reading      |
| Factor (dB)      | = Antenna factor + Cable loss – Amplifier gain |
| Level (dBuV/m)   | = Reading (dBuV/m) + Factor (dB)               |
| Limit (dBuV/m)   | = Limit stated in standard                     |
| Margin (dB)      | = Limit (dBuV/m) – Level (dBuV/m)              |
| Polarity         | = Antenna polarization                         |
| Peak             | = Peak Reading                                 |
| QP               | = Quasi-peak Reading                           |

### 1GHz-18GHz

| No. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   | Remark |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|--------|
| xxx | xxxx        | 78.01            | 55.30          | -22.71      | 74.00          | 18.70       | 100         | 50        | Horizontal | Peak   |
| xxx | xxxx        | 66.37            | 43.66          | -22.71      | 54.00          | 10.34       | 100         | 50        | Horizontal | AVG    |

### Above 18GHz

#### Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level for 1m [dBμV/m] | Level for 3m [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | Remark |
|-----|-------------|------------------|-----------------------|-----------------------|-------------|----------------|-------------|-------------|-----------|----------|--------|
| xxx | xxxx        | 53.84            | 59.73                 | 50.19                 | 5.89        | 74.00          | 23.81       | 100         | 48        | Vertical | Peak   |
| xxx | xxxx        | 44.22            | 46.83                 | 37.29                 | 2.61        | 54.00          | 16.71       | 100         | 279       | Vertical | AVG    |

|                  |                                                |
|------------------|------------------------------------------------|
| Frequency (MHz)  | = Emission frequency in MHz                    |
| Reading (dBuV/m) | = Uncorrected Analyzer / Receiver reading      |
| Factor (dB)      | = Antenna factor + Cable loss – Amplifier gain |
| Level (dBuV/m)   | = Reading (dBuV/m) + Factor (dB)               |
| Limit (dBuV/m)   | = Limit stated in standard                     |
| Margin (dB)      | = Limit (dBuV/m) – Level (dBuV/m)              |
| Polarity         | = Antenna polarization                         |
| Peak             | = Peak Reading                                 |
| AVG              | = Average Reading                              |

## 7.6.5. Test Result

### Below 1GHz

All models were pretested and only the worst modes and channels were recorded in this report.  
(IEEE 802.11n HT40 5755MHz)

Mode: IEEE 802.11n HT40

Environment: 22.2°C/31%RH/101.7kPa

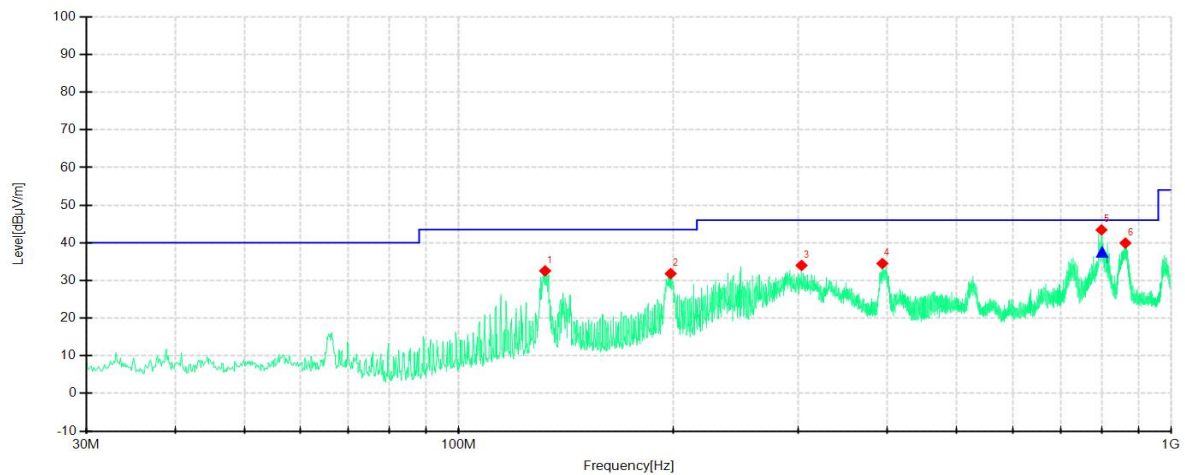
Test Engineer: Stone Zhang

Probe : Horizontal

Frequency:5755MHz

Power supply: DC 12V

Test Date: 2025-04-26



| Suspected Data List |                |                     |                   |                |                   |                |       |                |              |            |
|---------------------|----------------|---------------------|-------------------|----------------|-------------------|----------------|-------|----------------|--------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Trace | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1                   | 132.2265       | 61.58               | 32.54             | -29.04         | 43.50             | 10.96          | PK    | 200            | 86           | Horizontal |
| 2                   | 198.4373       | 63.22               | 31.82             | -31.40         | 43.50             | 11.68          | PK    | 100            | 107          | Horizontal |
| 3                   | 302.9679       | 61.51               | 33.99             | -27.52         | 46.00             | 12.01          | PK    | 100            | 264          | Horizontal |
| 4                   | 393.4317       | 58.86               | 34.50             | -24.36         | 46.00             | 11.50          | PK    | 100            | 54           | Horizontal |
| 5                   | 798.8211       | 60.32               | 43.42             | -16.90         | 46.00             | 2.58           | PK    | 100            | 288          | Horizontal |
| 6                   | 863.0916       | 55.92               | 39.93             | -15.99         | 46.00             | 6.07           | PK    | 100            | 288          | Horizontal |

| Final Data List |                |                |                                 |                         |                            |                      |                |              |            |         |
|-----------------|----------------|----------------|---------------------------------|-------------------------|----------------------------|----------------------|----------------|--------------|------------|---------|
| NO.             | Freq.<br>[MHz] | Factor<br>[dB] | QP<br>Reading<br>[dB $\mu$ V/m] | Level<br>[dB $\mu$ V/m] | QP Limit<br>[dB $\mu$ V/m] | QP<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   | Verdict |
| 1               | 800.3360       | -16.90         | 54.44                           | 37.54                   | 46.00                      | 8.46                 | 100            | 287.8        | Horizontal | PASS    |

Mode: IEEE 802.11n HT40

Environment: 22.2°C/31%RH/101.7kPa

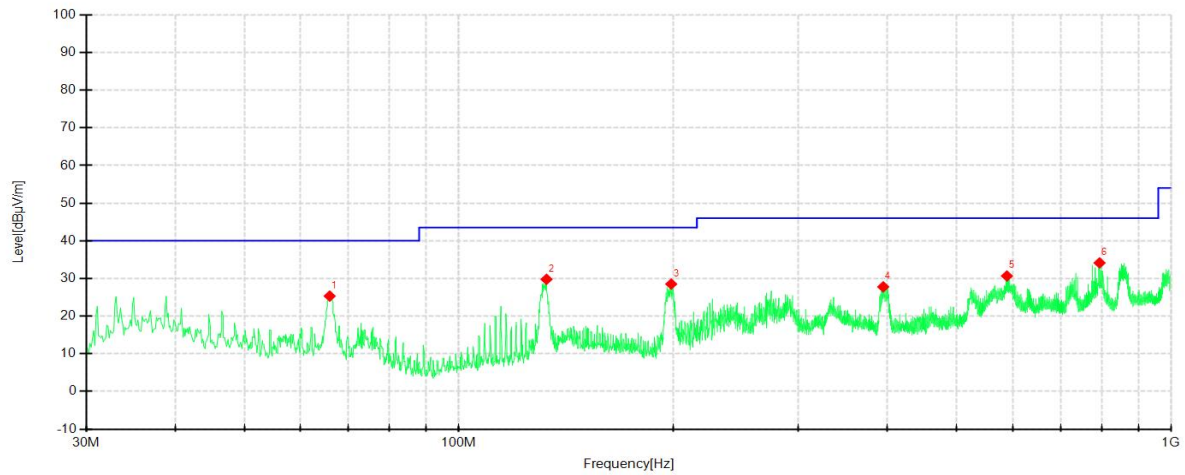
Test Engineer: Stone Zhang

Probe : Vertical

Frequency:5755MHz

Power supply: DC 12V

Test Date: 2025-04-26



| Suspected Data List |                |                     |                   |                |                   |                |       |                |              |          |
|---------------------|----------------|---------------------|-------------------|----------------|-------------------|----------------|-------|----------------|--------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Trace | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1                   | 65.8945        | 55.91               | 25.32             | -30.59         | 40.00             | 14.68          | PK    | 100            | 226          | Vertical |
| 2                   | 132.8329       | 58.78               | 29.78             | -29.00         | 43.50             | 13.72          | PK    | 200            | 29           | Vertical |
| 3                   | 198.8011       | 59.95               | 28.52             | -31.43         | 43.50             | 14.98          | PK    | 100            | 96           | Vertical |
| 4                   | 394.5231       | 52.08               | 27.77             | -24.31         | 46.00             | 18.23          | PK    | 200            | 29           | Vertical |
| 5                   | 588.4261       | 50.21               | 30.65             | -19.56         | 46.00             | 15.35          | PK    | 100            | 19           | Vertical |
| 6                   | 793.8492       | 51.08               | 34.14             | -16.94         | 46.00             | 11.86          | PK    | 100            | 32           | Vertical |

**Remark:**

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 3 Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of Receiver between 30MHz to 1GHz was 120 kHz.
- 5 If the margin of the pre test results is greater than 6db, it meets the requirements of quasipeak or average values, and final testing is no longer required.

## 1GHz-18GHz:

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Mode: IEEE 802.11a

Frequency (5745MHz)

Date: 2025-05-08

Environment: 25.3°C/41%RH/101.7kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1320.1000      | 61.39               | 41.45             | -19.94         | 74.00             | 32.55          | 100            | 88           | Horizontal |
| 2   | 1580.2500      | 61.21               | 41.47             | -19.74         | 74.00             | 32.53          | 200            | 317          | Horizontal |
| 3   | 2377.7500      | 61.41               | 45.14             | -16.27         | 74.00             | 28.86          | 100            | 348          | Horizontal |
| 4   | 3140.0500      | 58.33               | 46.51             | -11.82         | 68.30             | 21.79          | 100            | 102          | Horizontal |
| 5   | 5119.5000      | 47.91               | 49.24             | 1.33           | 74.00             | 24.76          | 200            | 183          | Horizontal |
| 6   | 14942.1500     | 36.92               | 53.95             | 17.03          | 68.30             | 14.35          | 200            | 57           | Horizontal |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5119.5137      | 1.33           | 46.11                     | 47.44                | 54.00                | 6.56                 | 100            | 159          | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1557.1500      | 71.97               | 51.84             | -20.13         | 74.00             | 22.16          | 200            | 280          | Vertical |
| 2   | 2393.7000      | 62.00               | 46.55             | -15.45         | 68.30             | 21.75          | 100            | 359          | Vertical |
| 3   | 3140.0500      | 59.51               | 48.21             | -11.30         | 68.30             | 20.09          | 200            | 48           | Vertical |
| 4   | 4080.5500      | 53.95               | 47.01             | -6.94          | 74.00             | 26.99          | 100            | 267          | Vertical |
| 5   | 5063.9500      | 48.69               | 50.35             | 1.66           | 74.00             | 23.65          | 200            | 224          | Vertical |
| 6   | 15012.3000     | 37.36               | 54.62             | 17.26          | 68.30             | 13.68          | 100            | 0            | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 1560.8911      | -20.13         | 44.94                     | 24.81                | 54.00                | 29.19                | 138            | 23.8         | Vertical |
| 2   | 5063.9534      | 1.67           | 46.18                     | 47.84                | 54.00                | 6.16                 | 100            | 240          | Vertical |

Mode: IEEE 802.11a

Frequency (5785MHz)

Environment: 25.3°C/41%RH/101.7kPa

Test Engineer: Stone Zhang

Date: 2025-05-08

Voltage:DC 12V

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1323.9500      | 61.25               | 41.33             | -19.92         | 74.00             | 32.67          | 100            | 117          | Horizontal |
| 2   | 2385.4500      | 60.17               | 44.20             | -15.97         | 74.00             | 29.80          | 200            | 47           | Horizontal |
| 3   | 3140.0500      | 57.73               | 45.91             | -11.82         | 68.30             | 22.39          | 100            | 102          | Horizontal |
| 4   | 5044.1500      | 48.68               | 50.08             | 1.40           | 74.00             | 23.92          | 100            | 117          | Horizontal |
| 5   | 10114.4500     | 39.68               | 50.36             | 10.68          | 68.30             | 17.94          | 100            | 62           | Horizontal |
| 6   | 14958.2500     | 36.73               | 53.56             | 16.83          | 68.30             | 14.74          | 200            | 0            | Horizontal |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5044.1590      | 1.40           | 46.23                     | 47.63                | 54.00                | 6.37                 | 100            | 236          | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1574.2000      | 60.50               | 40.16             | -20.34         | 74.00             | 33.84          | 200            | 304          | Vertical |
| 2   | 2378.8500      | 63.97               | 48.23             | -15.74         | 74.00             | 25.77          | 100            | 360          | Vertical |
| 3   | 3140.0500      | 59.29               | 47.99             | -11.30         | 68.30             | 20.31          | 200            | 49           | Vertical |
| 4   | 4272.5000      | 61.42               | 56.49             | -4.93          | 74.00             | 17.51          | 200            | 289          | Vertical |
| 5   | 5791.0500      | 51.08               | 51.51             | 0.43           | 68.30             | 16.79          | 200            | 342          | Vertical |
| 6   | 15314.7500     | 36.50               | 54.03             | 17.53          | 68.30             | 14.27          | 100            | 30           | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 2384.5129      | -15.74         | 46.43                     | 30.69                | 54.00                | 23.31                | 102            | 360          | Vertical |
| 2   | 4265.6678      | -4.93          | 37.68                     | 32.75                | 54.00                | 21.25                | 146            | 32.1         | Vertical |

Mode: IEEE 802.11a

Frequency (5825MHz)

Environment: 25.3°C/41%RH/101.7kPa

Test Engineer: Stone Zhang

Date: 2025-05-08

Voltage:DC 12V

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1207.9000      | 63.10               | 41.08             | -22.02         | 74.00             | 32.92          | 100            | 313          | Horizontal |
| 2   | 1782.1000      | 59.65               | 39.35             | -20.30         | 68.30             | 28.95          | 100            | 284          | Horizontal |
| 3   | 2402.5000      | 60.83               | 45.47             | -15.36         | 68.30             | 22.83          | 200            | 33           | Horizontal |
| 4   | 3140.0500      | 57.95               | 46.13             | -11.82         | 68.30             | 22.17          | 100            | 40           | Horizontal |
| 5   | 10576.7500     | 39.27               | 50.45             | 11.18          | 68.30             | 17.85          | 100            | 236          | Horizontal |
| 6   | 14763.9000     | 36.13               | 53.67             | 17.54          | 68.30             | 14.63          | 200            | 76           | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1183.1500      | 61.94               | 40.77             | -21.17         | 74.00             | 33.23          | 100            | 313          | Vertical |
| 2   | 2089.0000      | 62.74               | 45.27             | -17.47         | 68.30             | 23.03          | 100            | 286          | Vertical |
| 3   | 2393.1500      | 59.31               | 43.85             | -15.46         | 68.30             | 24.45          | 100            | 220          | Vertical |
| 4   | 3139.5000      | 59.88               | 48.57             | -11.31         | 68.30             | 19.73          | 200            | 84           | Vertical |
| 5   | 3973.8500      | 53.32               | 46.16             | -7.16          | 74.00             | 27.84          | 100            | 327          | Vertical |
| 6   | 17673.4000     | 39.48               | 55.71             | 16.23          | 68.30             | 12.59          | 100            | 343          | Vertical |

Mode: IEEE 802.11n HT20

Frequency (5745MHz)

Date: 2025-05-09

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1132.0000      | 63.29               | 40.69             | -22.60         | 74.00             | 33.31          | 100            | 235          | Horizontal |
| 2   | 2384.3500      | 58.29               | 42.28             | -16.01         | 74.00             | 31.72          | 100            | 276          | Horizontal |
| 3   | 5044.7000      | 49.74               | 51.14             | 1.40           | 74.00             | 22.86          | 200            | 169          | Horizontal |
| 4   | 12856.0500     | 37.23               | 53.17             | 15.94          | 68.30             | 15.13          | 100            | 3            | Horizontal |
| 5   | 15739.1000     | 40.20               | 54.15             | 13.95          | 74.00             | 19.85          | 200            | 313          | Horizontal |
| 6   | 17990.8000     | 38.05               | 55.83             | 17.78          | 74.00             | 18.17          | 100            | 70           | Horizontal |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5046.0143      | 1.40           | 36.34                     | 37.74                | 54.00                | 16.26                | 200            | 288          | Horizontal |
| 2   | 15700.4923     | 13.95          | 27.02                     | 40.97                | 54.00                | 13.03                | 200            | 133.8        | Horizontal |
| 3   | 17998.3760     | 17.78          | 26.91                     | 44.69                | 54.00                | 9.31                 | 100            | 153.9        | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 2399.7500      | 60.41               | 45.08             | -15.33         | 68.30             | 23.22          | 100            | 290          | Vertical |
| 2   | 2584.0000      | 62.82               | 48.14             | -14.68         | 68.30             | 20.16          | 100            | 236          | Vertical |
| 3   | 3974.9500      | 55.90               | 48.75             | -7.15          | 74.00             | 25.25          | 100            | 49           | Vertical |
| 4   | 4996.8500      | 49.52               | 50.46             | 0.94           | 74.00             | 23.54          | 200            | 345          | Vertical |
| 5   | 14650.0500     | 37.66               | 54.42             | 16.76          | 68.30             | 13.88          | 100            | 260          | Vertical |
| 6   | 17987.3500     | 37.53               | 55.64             | 18.11          | 74.00             | 18.36          | 100            | 165          | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 3974.1156      | -7.15          | 41.01                     | 33.86                | 54.00                | 20.14                | 130            | 42.8         | Vertical |
| 2   | 4993.9209      | 0.94           | 36.36                     | 37.30                | 54.00                | 16.70                | 105            | 318.4        | Vertical |
| 3   | 17999.9333     | 18.11          | 27.03                     | 45.14                | 54.00                | 8.86                 | 100            | 266.6        | Vertical |

Mode: IEEE 802.11n HT20

Frequency (5785 MHz)

Environment: 24.8°C/42%RH/100.4kPa

Test Engineer: Stone Zhang

Date: 2025-05-09

Voltage:DC 12V

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1054.4500      | 64.91               | 41.72             | -23.19         | 74.00             | 32.28          | 100            | 313          | Horizontal |
| 2   | 2381.6000      | 59.50               | 43.39             | -16.11         | 74.00             | 30.61          | 100            | 97           | Horizontal |
| 3   | 5115.6500      | 48.87               | 50.22             | 1.35           | 74.00             | 23.78          | 100            | 57           | Horizontal |
| 4   | 5788.8500      | 53.08               | 53.49             | 0.41           | 68.30             | 14.81          | 200            | 327          | Horizontal |
| 5   | 14799.5500     | 37.23               | 54.60             | 17.37          | 68.30             | 13.70          | 200            | 100          | Horizontal |
| 6   | 17981.6000     | 37.82               | 55.53             | 17.71          | 74.00             | 18.47          | 200            | 250          | Horizontal |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5117.8709      | 1.35           | 36.61                     | 37.96                | 54.00                | 16.04                | 110            | 0            | Horizontal |
| 2   | 17999.9320     | 17.71          | 27.00                     | 44.71                | 54.00                | 9.29                 | 200            | 329.4        | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1965.8000      | 70.42               | 51.77             | -18.65         | 68.30             | 16.53          | 100            | 301          | Vertical |
| 2   | 2409.6500      | 59.41               | 44.14             | -15.27         | 68.30             | 24.16          | 100            | 247          | Vertical |
| 3   | 3965.0500      | 55.58               | 48.29             | -7.29          | 74.00             | 25.71          | 200            | 314          | Vertical |
| 4   | 5116.7500      | 48.20               | 49.88             | 1.68           | 74.00             | 24.12          | 100            | 260          | Vertical |
| 5   | 5792.1500      | 50.97               | 51.40             | 0.43           | 68.30             | 16.90          | 100            | 327          | Vertical |
| 6   | 17995.4000     | 37.77               | 55.84             | 18.07          | 74.00             | 18.16          | 200            | 102          | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 3974.5754      | -7.29          | 41.06                     | 33.77                | 54.00                | 20.23                | 178            | 339.7        | Vertical |
| 2   | 5117.5271      | 1.68           | 36.64                     | 38.32                | 54.00                | 15.68                | 100            | 205.2        | Vertical |
| 3   | 17998.1130     | 18.07          | 26.90                     | 44.97                | 54.00                | 9.03                 | 200            | 10.9         | Vertical |

Mode: IEEE 802.11n HT20

Frequency (5825MHz)

Environment: 24.8°C/42%RH/100.4kPa

Test Engineer: Stone Zhang

Date: 2025-05-09

Voltage:DC 12V

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1415.8000      | 76.15               | 56.16             | -19.99         | 74.00             | 17.84          | 100            | 275          | Horizontal |
| 2   | 1684.7500      | 64.91               | 45.25             | -19.66         | 74.00             | 28.75          | 100            | 275          | Horizontal |
| 3   | 3988.7000      | 55.50               | 47.88             | -7.62          | 74.00             | 26.12          | 100            | 33           | Horizontal |
| 4   | 5117.3000      | 48.93               | 50.28             | 1.35           | 74.00             | 23.72          | 100            | 303          | Horizontal |
| 5   | 13148.1500     | 36.38               | 53.90             | 17.52          | 68.30             | 14.40          | 200            | 83           | Horizontal |
| 6   | 17997.7000     | 38.99               | 56.82             | 17.83          | 74.00             | 17.18          | 100            | 71           | Horizontal |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 1414.2425      | -19.99         | 44.73                     | 24.74                | 54.00                | 29.26                | 100            | 62.7         | Horizontal |
| 2   | 5117.4108      | 1.35           | 36.67                     | 38.02                | 54.00                | 15.98                | 100            | 20.3         | Horizontal |
| 3   | 17999.9315     | 17.83          | 26.93                     | 44.76                | 54.00                | 9.24                 | 151            | 276.5        | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1999.3500      | 70.18               | 52.37             | -17.81         | 68.30             | 15.93          | 100            | 289          | Vertical |
| 2   | 2654.4000      | 61.72               | 47.02             | -14.70         | 68.30             | 21.28          | 200            | 86           | Vertical |
| 3   | 3995.3000      | 58.09               | 51.21             | -6.88          | 74.00             | 22.79          | 100            | 103          | Vertical |
| 4   | 5974.7500      | 56.70               | 56.96             | 0.26           | 68.30             | 11.34          | 100            | 127          | Vertical |
| 5   | 13144.7000     | 36.13               | 53.06             | 16.93          | 68.30             | 15.24          | 100            | 136          | Vertical |
| 6   | 17997.7000     | 38.31               | 56.37             | 18.06          | 74.00             | 17.63          | 100            | 54           | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 3986.9158      | -6.88          | 40.28                     | 33.40                | 54.00                | 20.60                | 131            | 42.1         | Vertical |
| 2   | 17999.4115     | 18.06          | 26.99                     | 45.05                | 54.00                | 8.95                 | 100            | 164.1        | Vertical |

Mode: IEEE 802.11n HT40

Frequency (5755MHz)

Date: 2025-05-09

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

#### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1317.9000      | 60.34               | 40.39             | -19.95         | 74.00             | 33.61          | 100            | 86           | Horizontal |
| 2   | 2401.9500      | 59.63               | 44.26             | -15.37         | 68.30             | 24.04          | 100            | 276          | Horizontal |
| 3   | 5117.8500      | 49.08               | 50.41             | 1.33           | 74.00             | 23.59          | 100            | 153          | Horizontal |
| 4   | 13265.4500     | 37.60               | 53.43             | 15.83          | 74.00             | 20.57          | 100            | 301          | Horizontal |
| 5   | 14877.7500     | 37.07               | 54.37             | 17.30          | 68.30             | 13.93          | 100            | 151          | Horizontal |
| 6   | 17983.9000     | 38.70               | 56.43             | 17.73          | 74.00             | 17.57          | 100            | 16           | Horizontal |

#### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5117.2944      | 1.33           | 36.63                     | 37.96                | 54.00                | 16.04                | 100            | 357.8        | Horizontal |
| 2   | 13273.0334     | 15.83          | 24.48                     | 40.31                | 54.00                | 13.69                | 182            | 85           | Horizontal |
| 3   | 17999.4105     | 17.73          | 26.98                     | 44.71                | 54.00                | 9.29                 | 100            | 174.2        | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 2402.5000      | 61.44               | 46.14             | -15.30         | 68.30             | 22.16          | 100            | 294          | Vertical |
| 2   | 3973.8500      | 56.07               | 48.91             | -7.16          | 74.00             | 25.09          | 200            | 333          | Vertical |
| 3   | 5116.7500      | 48.42               | 50.10             | 1.68           | 74.00             | 23.90          | 200            | 237          | Vertical |
| 4   | 13157.3500     | 36.02               | 52.73             | 16.71          | 68.30             | 15.57          | 100            | 41           | Vertical |
| 5   | 14895.0000     | 36.06               | 54.33             | 18.27          | 68.30             | 13.97          | 200            | 163          | Vertical |
| 6   | 17998.8500     | 38.76               | 56.81             | 18.05          | 74.00             | 17.19          | 100            | 163          | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 3973.1604      | -7.16          | 41.12                     | 33.96                | 54.00                | 20.04                | 179            | 337.3        | Vertical |
| 2   | 5116.7131      | 1.68           | 36.61                     | 38.29                | 54.00                | 15.71                | 100            | 22.7         | Vertical |
| 3   | 17999.1558     | 18.05          | 26.90                     | 44.95                | 54.00                | 9.05                 | 100            | 245.6        | Vertical |

Mode: IEEE 802.11n HT40

Frequency (5795MHz)

Date: 2025-05-09

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1041.2500      | 64.29               | 40.96             | -23.33         | 74.00             | 33.04          | 200            | 325          | Horizontal |
| 2   | 2111.5500      | 67.06               | 49.41             | -17.65         | 68.30             | 18.89          | 100            | 273          | Horizontal |
| 3   | 4395.7000      | 54.09               | 48.80             | -5.29          | 74.00             | 25.20          | 200            | 285          | Horizontal |
| 4   | 5000.1500      | 48.32               | 49.63             | 1.31           | 74.00             | 24.37          | 200            | 0            | Horizontal |
| 5   | 13156.2000     | 35.94               | 53.33             | 17.39          | 68.30             | 14.97          | 200            | 64           | Horizontal |
| 6   | 18000.0000     | 37.30               | 55.15             | 17.85          | 74.00             | 18.85          | 200            | 305          | Horizontal |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 4404.7018      | -5.29          | 37.58                     | 32.29                | 53.95                | 21.66                | 107            | 308          | Horizontal |
| 2   | 4990.3086      | 1.31           | 36.19                     | 37.50                | 54.00                | 16.50                | 149            | 205.7        | Horizontal |
| 3   | 17998.1100     | 17.85          | 26.87                     | 44.72                | 54.00                | 9.28                 | 200            | 33.6         | Horizontal |

**Suspected Data List**

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1295.9000      | 63.51               | 42.95             | -20.56         | 68.30             | 25.35          | 200            | 287          | Vertical |
| 2   | 2379.4000      | 59.26               | 43.53             | -15.73         | 74.00             | 30.47          | 200            | 274          | Vertical |
| 3   | 3961.2000      | 55.24               | 47.90             | -7.34          | 74.00             | 26.10          | 200            | 340          | Vertical |
| 4   | 5116.7500      | 48.34               | 50.02             | 1.68           | 74.00             | 23.98          | 100            | 339          | Vertical |
| 5   | 14761.6000     | 36.73               | 54.26             | 17.53          | 68.30             | 14.04          | 100            | 264          | Vertical |
| 6   | 17928.7000     | 38.28               | 56.65             | 18.37          | 74.00             | 17.35          | 200            | 320          | Vertical |

**AV Final Data List**

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 5117.6011      | 1.68           | 36.65                     | 38.33                | 54.00                | 15.67                | 100            | 53.7         | Vertical |
| 2   | 17971.2483     | 18.37          | 25.80                     | 44.17                | 54.00                | 9.83                 | 200            | 328          | Vertical |

Mode: IEEE 802.11ac VHT20

Frequency (5745MHz)

Date: 2025-05-09

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1321.2000      | 61.57               | 41.63             | -19.94         | 74.00             | 32.37          | 100            | 82           | Horizontal |
| 2   | 2393.1500      | 59.05               | 43.37             | -15.68         | 68.30             | 24.93          | 100            | 285          | Horizontal |
| 3   | 5117.3000      | 48.67               | 50.02             | 1.35           | 74.00             | 23.98          | 100            | 340          | Horizontal |
| 4   | 13114.8000     | 36.04               | 53.28             | 17.24          | 68.30             | 15.02          | 100            | 18           | Horizontal |
| 5   | 14648.9000     | 37.30               | 54.61             | 17.31          | 68.30             | 13.69          | 200            | 21           | Horizontal |
| 6   | 17994.2500     | 37.72               | 55.53             | 17.81          | 74.00             | 18.47          | 200            | 303          | Horizontal |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5117.4108      | 1.35           | 36.69                     | 38.04                | 54.00                | 15.96                | 101            | 194          | Horizontal |
| 2   | 17999.8088     | 17.81          | 26.93                     | 44.74                | 54.00                | 9.26                 | 200            | 263.7        | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1245.8500      | 68.91               | 48.14             | -20.77         | 68.30             | 20.16          | 200            | 287          | Vertical |
| 2   | 2393.1500      | 60.07               | 44.61             | -15.46         | 68.30             | 23.69          | 100            | 286          | Vertical |
| 3   | 3805.5500      | 59.79               | 50.65             | -9.14          | 74.00             | 23.35          | 100            | 286          | Vertical |
| 4   | 5066.7000      | 48.70               | 50.38             | 1.68           | 74.00             | 23.62          | 100            | 229          | Vertical |
| 5   | 14763.9000     | 36.64               | 54.18             | 17.54          | 68.30             | 14.12          | 100            | 101          | Vertical |
| 6   | 17981.6000     | 37.93               | 56.07             | 18.14          | 74.00             | 17.93          | 200            | 33           | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 3815.0501      | -9.14          | 38.91                     | 29.77                | 54.00                | 24.23                | 100            | 43.8         | Vertical |
| 2   | 5062.3003      | 1.68           | 36.12                     | 37.80                | 54.00                | 16.20                | 100            | 215.4        | Vertical |
| 3   | 17999.9320     | 18.14          | 27.07                     | 45.21                | 54.00                | 8.79                 | 168            | 265.9        | Vertical |

Mode: IEEE 802.11ac VHT20

Frequency (5785 MHz)

Environment: 24.8°C/42%RH/100.4kPa

Test Engineer: Stone Zhang

Date: 2025-05-09

Voltage:DC 12V

#### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1331.1000      | 62.16               | 42.27             | -19.89         | 74.00             | 31.73          | 100            | 70           | Horizontal |
| 2   | 2394.8000      | 59.50               | 43.89             | -15.61         | 68.30             | 24.41          | 100            | 286          | Horizontal |
| 3   | 5059.5500      | 48.91               | 50.32             | 1.41           | 74.00             | 23.68          | 100            | 5            | Horizontal |
| 4   | 5790.5000      | 53.48               | 53.89             | 0.41           | 68.30             | 14.41          | 200            | 340          | Horizontal |
| 5   | 14748.9500     | 36.86               | 54.46             | 17.60          | 68.30             | 13.84          | 100            | 328          | Horizontal |
| 6   | 17977.0000     | 37.91               | 55.58             | 17.67          | 74.00             | 18.42          | 100            | 98           | Horizontal |

#### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5047.8711      | 1.41           | 36.26                     | 37.67                | 54.00                | 16.33                | 100            | 123.4        | Horizontal |
| 2   | 17999.9350     | 17.67          | 26.97                     | 44.64                | 54.00                | 9.36                 | 130            | 63.5         | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1579.1500      | 68.97               | 48.57             | -20.40         | 74.00             | 25.43          | 200            | 285          | Vertical |
| 2   | 3187.9000      | 62.66               | 50.86             | -11.80         | 68.30             | 17.44          | 100            | 285          | Vertical |
| 3   | 3988.7000      | 57.14               | 50.17             | -6.97          | 74.00             | 23.83          | 200            | 339          | Vertical |
| 4   | 5049.1000      | 48.31               | 49.91             | 1.60           | 74.00             | 24.09          | 100            | 56           | Vertical |
| 5   | 5792.1500      | 51.44               | 51.87             | 0.43           | 68.30             | 16.43          | 100            | 326          | Vertical |
| 6   | 17994.2500     | 38.55               | 56.63             | 18.08          | 74.00             | 17.37          | 200            | 239          | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 1583.0811      | -20.40         | 48.28                     | 27.88                | 54.00                | 26.12                | 158            | 53.3         | Vertical |
| 2   | 3979.4643      | -6.97          | 41.25                     | 34.28                | 54.00                | 19.72                | 180            | 337.9        | Vertical |
| 3   | 5046.2503      | 1.60           | 36.35                     | 37.95                | 54.00                | 16.05                | 100            | 287          | Vertical |
| 4   | 17999.9388     | 18.08          | 26.94                     | 45.02                | 54.00                | 8.98                 | 200            | 2.5          | Vertical |

Mode: IEEE 802.11ac VHT20

Frequency (5825MHz)

Environment: 24.8°C/42%RH/100.4kPa

Test Engineer: Stone Zhang

Date: 2025-05-09

Voltage:DC 12V

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1318.4500      | 62.16               | 42.20             | -19.96         | 74.00             | 31.80          | 100            | 59           | Horizontal |
| 2   | 2395.9000      | 59.57               | 43.99             | -15.58         | 68.30             | 24.31          | 100            | 301          | Horizontal |
| 3   | 5116.7500      | 48.60               | 49.95             | 1.35           | 74.00             | 24.05          | 200            | 237          | Horizontal |
| 4   | 13099.8500     | 36.26               | 53.38             | 17.12          | 68.30             | 14.92          | 100            | 5            | Horizontal |
| 5   | 15759.8000     | 40.08               | 53.94             | 13.86          | 74.00             | 20.06          | 100            | 0            | Horizontal |
| 6   | 17949.4000     | 38.06               | 55.52             | 17.46          | 74.00             | 18.48          | 100            | 177          | Horizontal |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5117.4531      | 1.35           | 36.67                     | 38.02                | 54.00                | 15.98                | 127            | 94.2         | Horizontal |
| 2   | 15759.3405     | 13.86          | 27.08                     | 40.94                | 54.00                | 13.06                | 100            | 316.7        | Horizontal |
| 3   | 17993.9465     | 17.46          | 26.71                     | 44.17                | 54.00                | 9.83                 | 100            | 317.4        | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1562.6500      | 62.86               | 42.66             | -20.20         | 74.00             | 31.34          | 100            | 60           | Vertical |
| 2   | 2392.6000      | 61.56               | 46.09             | -15.47         | 68.30             | 22.21          | 200            | 264          | Vertical |
| 3   | 3962.3000      | 55.37               | 48.05             | -7.32          | 74.00             | 25.95          | 200            | 345          | Vertical |
| 4   | 5116.2000      | 48.75               | 50.43             | 1.68           | 74.00             | 23.57          | 100            | 288          | Vertical |
| 5   | 15658.6000     | 39.94               | 54.48             | 14.54          | 74.00             | 19.52          | 100            | 15           | Vertical |
| 6   | 17955.1500     | 38.46               | 56.70             | 18.24          | 74.00             | 17.30          | 200            | 108          | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 3972.0193      | -7.32          | 41.07                     | 33.75                | 54.00                | 20.25                | 178            | 316          | Vertical |
| 2   | 5118.2735      | 1.68           | 36.72                     | 38.40                | 54.00                | 15.60                | 100            | 175          | Vertical |
| 3   | 15688.7435     | 14.54          | 27.10                     | 41.64                | 54.00                | 12.36                | 100            | 245.9        | Vertical |
| 4   | 17999.9343     | 18.24          | 26.98                     | 45.22                | 54.00                | 8.78                 | 200            | 257.6        | Vertical |

Mode: IEEE 802.11ac VHT40

Frequency (5755MHz)

Date: 2025-05-09

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

#### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1198.5500      | 67.17               | 45.02             | -22.15         | 74.00             | 28.98          | 100            | 30           | Horizontal |
| 2   | 1660.5500      | 64.17               | 44.62             | -19.55         | 74.00             | 29.38          | 200            | 42           | Horizontal |
| 3   | 2661.5500      | 61.23               | 46.41             | -14.82         | 68.30             | 21.89          | 100            | 3            | Horizontal |
| 4   | 5117.3000      | 48.52               | 49.87             | 1.35           | 74.00             | 24.13          | 200            | 232          | Horizontal |
| 5   | 16092.1500     | 39.67               | 53.50             | 13.83          | 74.00             | 20.50          | 200            | 209          | Horizontal |
| 6   | 17996.5500     | 38.24               | 56.06             | 17.82          | 74.00             | 17.94          | 200            | 317          | Horizontal |

#### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5117.5588      | 1.35           | 36.76                     | 38.11                | 54.00                | 15.89                | 139            | 22.3         | Horizontal |
| 2   | 16093.1996     | 13.83          | 27.82                     | 41.65                | 54.00                | 12.35                | 138            | 114          | Horizontal |
| 3   | 17999.8073     | 17.82          | 27.24                     | 45.06                | 54.00                | 8.94                 | 200            | 255.1        | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1199.1000      | 71.10               | 50.15             | -20.95         | 74.00             | 23.85          | 200            | 43           | Vertical |
| 2   | 1998.8000      | 68.28               | 50.46             | -17.82         | 68.30             | 17.84          | 200            | 56           | Vertical |
| 3   | 2658.8000      | 66.12               | 51.45             | -14.67         | 68.30             | 16.85          | 100            | 258          | Vertical |
| 4   | 4791.1500      | 53.46               | 52.03             | -1.43          | 74.00             | 21.97          | 100            | 298          | Vertical |
| 5   | 5998.4000      | 55.98               | 55.99             | 0.01           | 68.30             | 12.31          | 100            | 339          | Vertical |
| 6   | 17986.2000     | 37.78               | 55.89             | 18.11          | 74.00             | 18.11          | 100            | 194          | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 1200.6618      | -20.95         | 47.28                     | 26.33                | 54.00                | 27.67                | 117            | 1.1          | Vertical |
| 2   | 4780.2641      | -1.43          | 38.10                     | 36.67                | 54.00                | 17.33                | 112            | 32.8         | Vertical |
| 3   | 17999.9390     | 18.11          | 27.22                     | 45.33                | 54.00                | 8.67                 | 139            | 185.5        | Vertical |

Mode: IEEE 802.11ac VHT40

Frequency (5795MHz)

Date: 2025-05-09

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1323.9500      | 62.61               | 42.69             | -19.92         | 74.00             | 31.31          | 100            | 70           | Horizontal |
| 2   | 2375.5500      | 59.38               | 43.04             | -16.34         | 74.00             | 30.96          | 100            | 285          | Horizontal |
| 3   | 5048.0000      | 48.37               | 49.77             | 1.40           | 74.00             | 24.23          | 100            | 0            | Horizontal |
| 4   | 5791.6000      | 52.69               | 53.10             | 0.41           | 68.30             | 15.20          | 200            | 328          | Horizontal |
| 5   | 14690.3000     | 36.99               | 54.42             | 17.43          | 68.30             | 13.88          | 200            | 101          | Horizontal |
| 6   | 17998.8500     | 38.14               | 55.98             | 17.84          | 74.00             | 18.02          | 100            | 155          | Horizontal |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5047.5250      | 1.40           | 36.32                     | 37.72                | 54.00                | 16.28                | 112            | 71.4         | Horizontal |
| 2   | 17999.8058     | 17.84          | 27.11                     | 44.95                | 54.00                | 9.05                 | 150            | 114.2        | Horizontal |

**Suspected Data List**

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1196.3500      | 65.87               | 44.88             | -20.99         | 74.00             | 29.12          | 100            | 274          | Vertical |
| 2   | 3140.0500      | 55.92               | 44.62             | -11.30         | 68.30             | 23.68          | 200            | 341          | Vertical |
| 3   | 3962.3000      | 57.49               | 50.17             | -7.32          | 74.00             | 23.83          | 200            | 341          | Vertical |
| 4   | 5113.4500      | 49.17               | 50.87             | 1.70           | 74.00             | 23.13          | 200            | 285          | Vertical |
| 5   | 14937.5500     | 37.26               | 55.25             | 17.99          | 68.30             | 13.05          | 100            | 20           | Vertical |
| 6   | 17991.9500     | 38.55               | 56.63             | 18.08          | 74.00             | 17.37          | 200            | 156          | Vertical |

**AV Final Data List**

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 3971.9043      | -7.32          | 41.51                     | 34.19                | 54.00                | 19.81                | 178            | 338          | Vertical |
| 2   | 5118.4454      | 1.70           | 36.74                     | 38.44                | 54.00                | 15.56                | 116            | 12           | Vertical |
| 3   | 17999.9303     | 18.08          | 27.28                     | 45.36                | 54.00                | 8.64                 | 107            | 22.1         | Vertical |

Mode: IEEE 802.11ac VHT80

Frequency (5775MHz)

Date: 2025-05-09

Environment: 24.8°C/42%RH/100.4kPa

Voltage:DC 12V

Test Engineer: Stone Zhang

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 1325.6000      | 63.16               | 43.25             | -19.91         | 74.00             | 30.75          | 100            | 86           | Horizontal |
| 2   | 2401.9500      | 60.18               | 44.81             | -15.37         | 68.30             | 23.49          | 100            | 302          | Horizontal |
| 3   | 5068.9000      | 48.22               | 49.63             | 1.41           | 74.00             | 24.37          | 100            | 155          | Horizontal |
| 4   | 5904.9000      | 50.60               | 51.00             | 0.40           | 68.30             | 17.30          | 200            | 330          | Horizontal |
| 5   | 14674.2000     | 37.13               | 54.52             | 17.39          | 68.30             | 13.78          | 200            | 297          | Horizontal |
| 6   | 17991.9500     | 37.61               | 55.40             | 17.79          | 74.00             | 18.60          | 200            | 27           | Horizontal |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|------------|
| 1   | 5062.5918      | 1.41           | 36.17                     | 37.58                | 54.00                | 16.42                | 122            | 194.9        | Horizontal |
| 2   | 17999.4103     | 17.79          | 27.26                     | 45.05                | 54.00                | 8.95                 | 187            | 234.8        | Horizontal |

### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 1301.9500      | 62.70               | 42.14             | -20.56         | 74.00             | 31.86          | 100            | 314          | Vertical |
| 2   | 2397.5500      | 61.42               | 46.05             | -15.37         | 68.30             | 22.25          | 100            | 355          | Vertical |
| 3   | 3972.7500      | 55.50               | 48.32             | -7.18          | 74.00             | 25.68          | 200            | 343          | Vertical |
| 4   | 5060.1000      | 48.29               | 49.94             | 1.65           | 74.00             | 24.06          | 200            | 102          | Vertical |
| 5   | 14950.2000     | 37.17               | 55.03             | 17.86          | 68.30             | 13.27          | 100            | 97           | Vertical |
| 6   | 17997.7000     | 38.11               | 56.17             | 18.06          | 74.00             | 17.83          | 100            | 163          | Vertical |

### AV Final Data List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | AV<br>Reading<br>[dBμV/m] | AV Value<br>[dBμV/m] | AV Limit<br>[dBμV/m] | AV<br>Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------------|----------------------|----------------------|----------------------|----------------|--------------|----------|
| 1   | 3976.6021      | -7.18          | 41.58                     | 34.40                | 54.00                | 19.60                | 180            | 336.9        | Vertical |
| 2   | 5047.9078      | 1.65           | 36.43                     | 38.08                | 54.00                | 15.92                | 103            | 38.2         | Vertical |
| 3   | 17999.8015     | 18.06          | 27.49                     | 45.55                | 54.00                | 8.45                 | 154            | 345.2        | Vertical |

**18GHz-40GHz:**

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Note: Pre-scan all modes, only the worst case (IEEE 802.11n HT40\_5755MHz) is recorded in this report.

Mode: IEEE 802.11n HT40

Frequency (5755MHz)

Environment: 24.8°C/42%RH/100.4kPa

Test Engineer: Stone Zhang

Test Date: 2025-05-09

Power supply: DC 12V

| Suspected Data List |                |                     |                             |                             |                |                   |                |                |              |            |
|---------------------|----------------|---------------------|-----------------------------|-----------------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level for<br>1m<br>[dBμV/m] | Level for<br>3m<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1                   | 18896.5000     | 47.64               | 50.66                       | 41.12                       | 3.02           | 74                | 32.88          | 100            | 254          | Horizontal |
| 2                   | 22184.4000     | 45.74               | 49.19                       | 39.65                       | 3.45           | 74                | 34.35          | 200            | 24           | Horizontal |
| 3                   | 23805.8000     | 43.05               | 47.75                       | 38.21                       | 4.70           | 74                | 35.79          | 100            | 5            | Horizontal |
| 4                   | 31350.7000     | 43.36               | 50.86                       | 41.32                       | 7.50           | 74                | 32.68          | 100            | 172          | Horizontal |
| 5                   | 34694.7000     | 45.21               | 54.08                       | 44.54                       | 8.87           | 74                | 29.46          | 100            | 67           | Horizontal |
| 6                   | 39635.9000     | 41.14               | 57.22                       | 47.68                       | 16.08          | 74                | 26.32          | 100            | 150          | Horizontal |

| Suspected Data List |                |                     |                             |                             |                |                   |                |                |              |          |
|---------------------|----------------|---------------------|-----------------------------|-----------------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Level for<br>1m<br>[dBμV/m] | Level for<br>3m<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1                   | 19453.1000     | 47.51               | 51.23                       | 41.69                       | 3.72           | 74                | 32.31          | 100            | 40           | Vertical |
| 2                   | 22879.6000     | 44.15               | 49.02                       | 39.48                       | 4.87           | 74                | 34.52          | 100            | 360          | Vertical |
| 3                   | 23859.7000     | 43.54               | 48.85                       | 39.31                       | 5.31           | 74                | 34.69          | 100            | 145          | Vertical |
| 4                   | 31971.1000     | 44.08               | 51.07                       | 41.53                       | 6.99           | 74                | 32.47          | 200            | 291          | Vertical |
| 5                   | 36364.5000     | 42.42               | 53.01                       | 43.47                       | 10.59          | 74                | 30.53          | 100            | 229          | Vertical |
| 6                   | 39475.3000     | 41.39               | 56.86                       | 47.32                       | 15.47          | 74                | 26.68          | 100            | 19           | Vertical |

**Remark:**

- 1 Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2 Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Above 18G test distance is 1m, so the Level for 3m= Level for 1m + 20\*log(1/3)

## 7.7. Radiated Restricted Band Edge Measurement

### 7.7.1. Test Limit

#### **For 15.205 requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

| Frequency<br>(MHz)  | Frequency<br>(MHz)  | Frequency<br>(MHz) | Frequency<br>(GHz) |
|---------------------|---------------------|--------------------|--------------------|
| 0.090 - 0.110       | 16.42 - 16.423      | 399.9 - 410        | 4.5 - 5.15         |
| 1 0.495 - 0.505     | 16.69475 - 16.69525 | 608 - 614          | 5.35 - 5.46        |
| 2.1735 - 2.1905     | 16.80425 - 16.80475 | 960 - 1240         | 7.25 - 7.75        |
| 4.125 - 4.128       | 25.5 - 25.67        | 1300 - 1427        | 8.25 - 8.5         |
| 4.17725 - 4.17775   | 37.5 - 38.25        | 1435 - 1626.5      | 9.0 - 9.2          |
| 4.20725 - 4.20775   | 73 - 74.6           | 1645.5 - 1646.5    | 9.3 - 9.5          |
| 6.215 - 6.218       | 74.8 - 75.2         | 1660 - 1710        | 10.6 - 12.7        |
| 6.26775 - 6.26825   | 108 - 121.94        | 1718.8 - 1722.2    | 13.25 - 13.4       |
| 6.31175 - 6.31225   | 123 - 138           | 2200 - 2300        | 14.47 - 14.5       |
| 8.291 - 8.294       | 149.9 - 150.05      | 2310 - 2390        | 15.35 - 16.2       |
| 8.362 - 8.366       | 156.52475 - 156.525 | 2483.5 - 2500      | 17.7 - 21.4        |
| 8.37625 - 8.38675   | 156.7 - 156.9       | 2690 - 2900        | 22.01 - 23.12      |
| 8.41425 - 8.41475   | 162.0125 - 167.17   | 3260 - 3267        | 23.6 - 24.0        |
| 12.29 - 12.293      | 167.72 - 173.2      | 3332 - 3339        | 31.2 - 31.8        |
| 12.51975 - 12.52025 | 240 - 285           | 3345.8 - 3358      | 36.43 - 36.5       |
| 12.57675 - 12.57725 | 322 - 335.4         | 3600 - 4400        | (2)                |
| 13.36 - 13.41       | --                  | --                 | --                 |

**For FCC transmitters operating in the 5.725-5.85 GHz band:** All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

| FCC Part 15 Subpart C Paragraph 15.209 |                         |                               |
|----------------------------------------|-------------------------|-------------------------------|
| Frequency<br>[MHz]                     | Field Strength<br>[V/m] | Measured Distance<br>[Meters] |
| 0.009 ~ 0.490                          | 2400/F (kHz)            | 300                           |
| 0.490 ~ 1.705                          | 24000/F (kHz)           | 30                            |
| 1.705 ~ 30                             | 30                      | 30                            |
| 30 ~ 88                                | 100                     | 3                             |
| 88 ~ 216                               | 150                     | 3                             |
| 216 ~ 960                              | 200                     | 3                             |
| Above 960                              | 500                     | 3                             |

### 7.7.2. Test Setting

- a) The EUT is placed on a turntable, which is 1.5m above the ground plane.
- b) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- c) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- d) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - a) PEAK Measurement: RBW=1MHz / VBW=3MHz / Sweep=AUTO
  - b) AVERAGE Measurement: RBW=1MHz, Sweep=AUTO, There are two cases of VBW.  
If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW=10Hz. If the EUT duty cycle is  $< 98\%$ , set  $\text{VBW} \geq 1/T$ , Where T is defined in section 2.5.
- e) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

### 7.7.3. Test Result

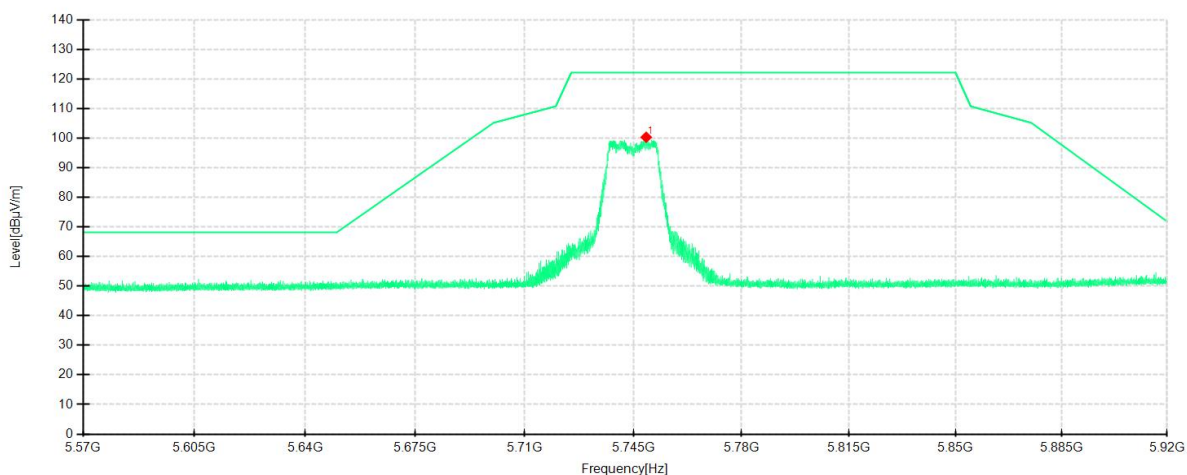
| Project Information |                        |           |             |
|---------------------|------------------------|-----------|-------------|
| EUT:                | MONITOR WITH RECEIVER  | Model:    | KW-Z900W    |
| Test Date:          | 2025-03-31             | Voltage:  | DC 12V      |
| Environment:        | Temp: 17.6°C; Humi:29% | Engineer: | Stone Zhang |

#### IEEE 802.11a mode

Frequency 5745MHz

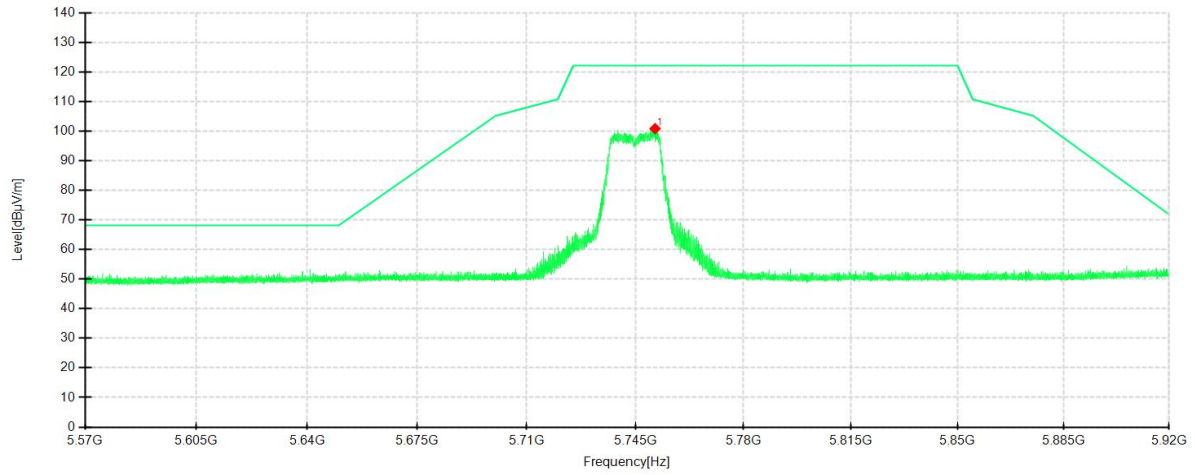
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



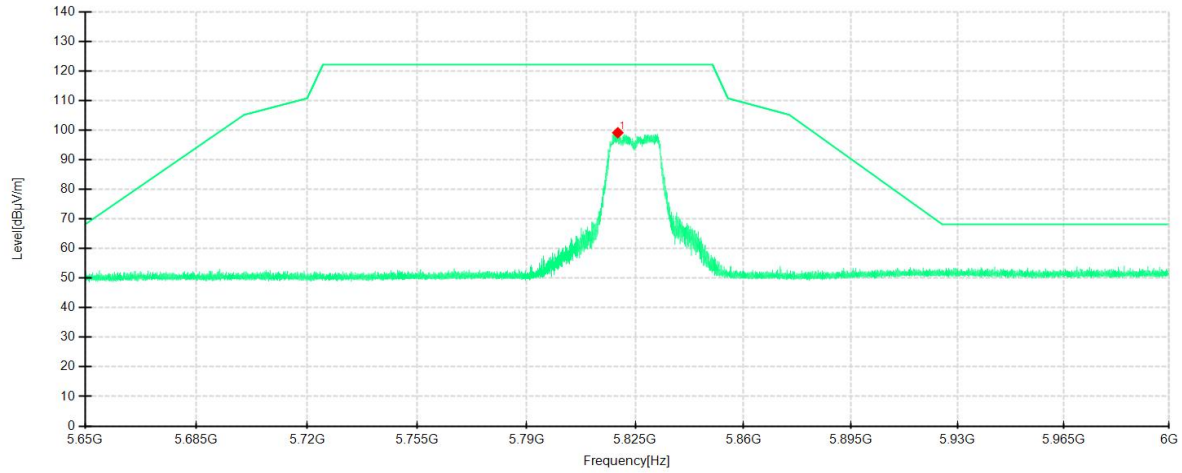
| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5749.1475        | 92.52             | 100.33          | 7.81         | 122.20          | 21.87        | 200          | 324        | Horizontal | /       |
| 1   | 5751.3700        | 92.97             | 100.87          | 7.90         | 122.20          | 21.33        | 200          | 342        | Vertical   | /       |

# IEEE 802.11a mode

Frequency 5825MHz

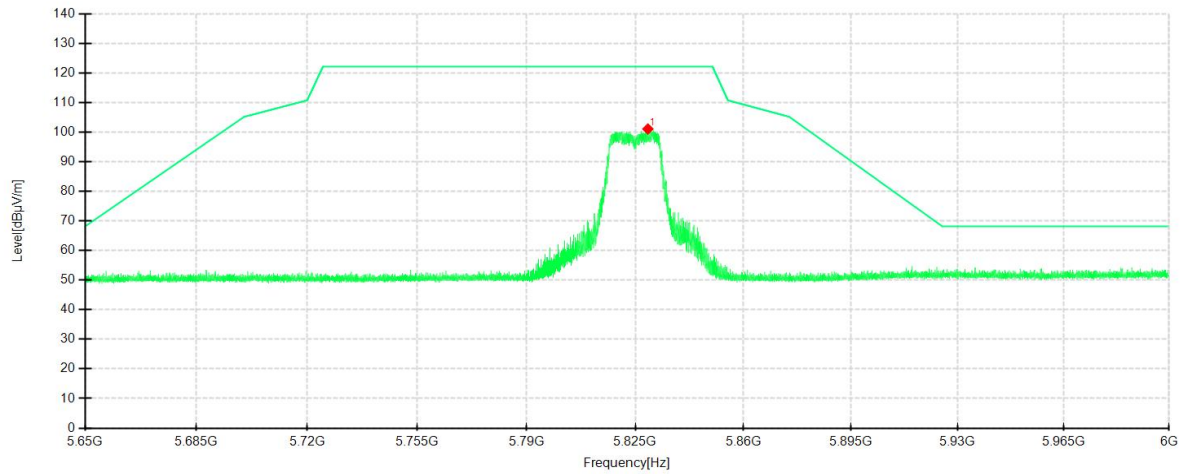
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



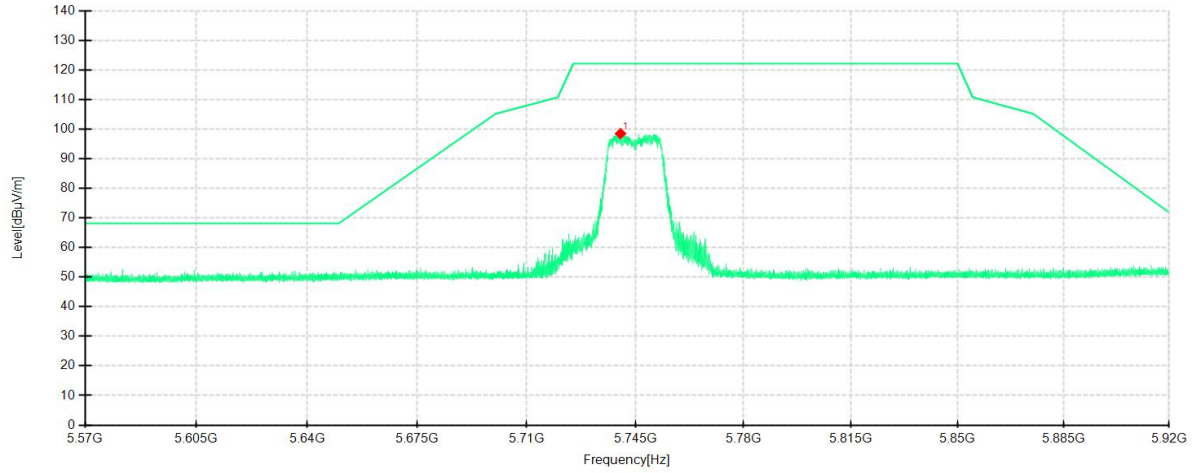
| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5819.3825        | 91.40             | 99.16           | 7.76         | 122.20          | 23.04        | 200          | 325        | Horizontal | /       |
| 1   | 5829.0950        | 93.35             | 101.09          | 7.74         | 122.20          | 21.11        | 200          | 344        | Vertical   | /       |

# IEEE 802.11n HT20 mode

Frequency 5745MHz

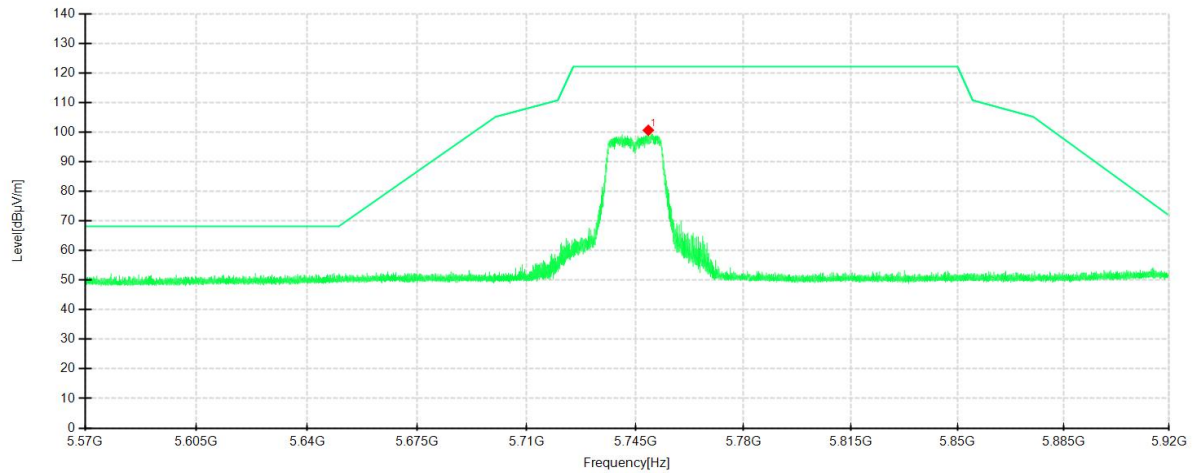
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



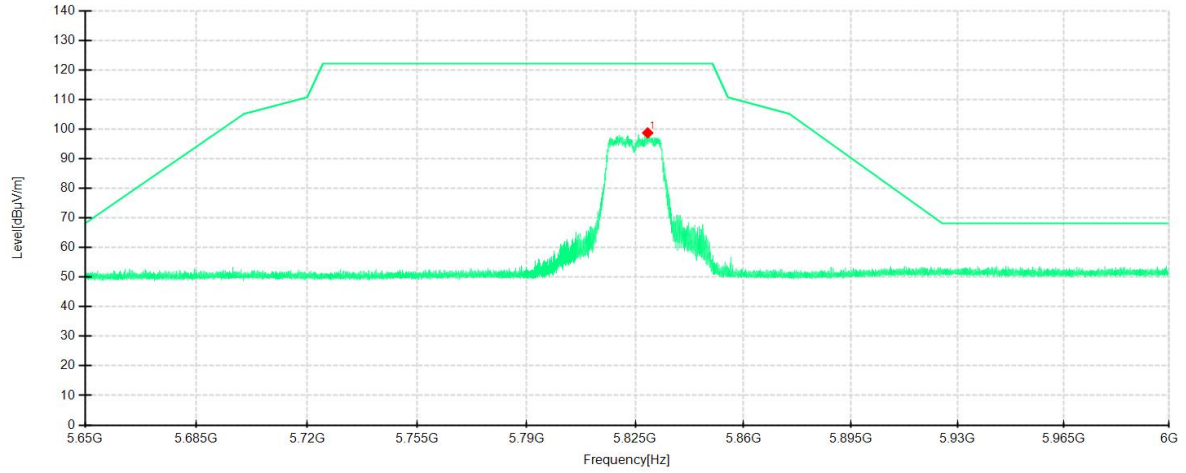
| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5740.2225        | 90.75             | 98.51           | 7.76         | 122.20          | 23.69        | 200          | 323        | Horizontal | /       |
| 1   | 5749.2000        | 92.76             | 100.67          | 7.91         | 122.20          | 21.53        | 200          | 344        | Vertical   | /       |

# IEEE 802.11n HT20 mode

Frequency 5825MHz

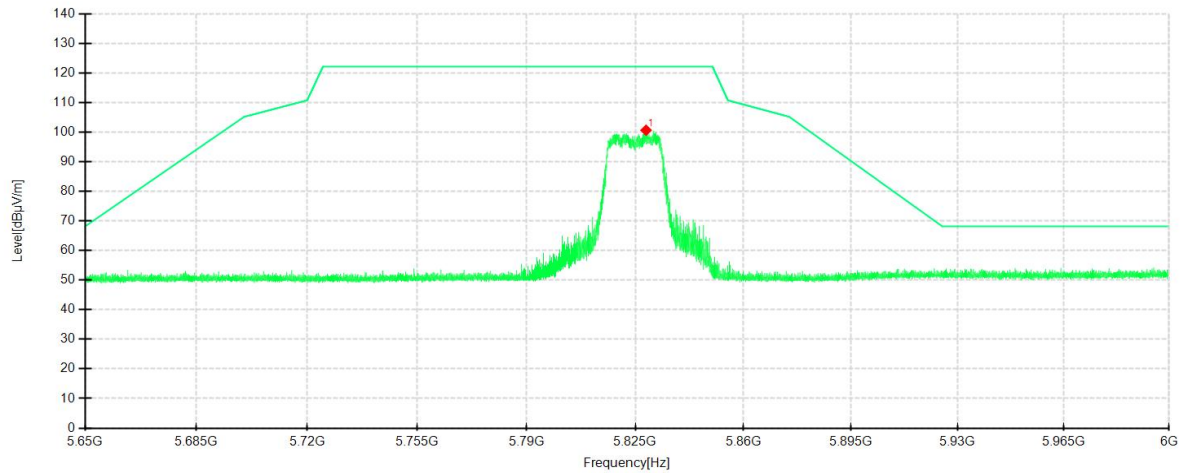
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



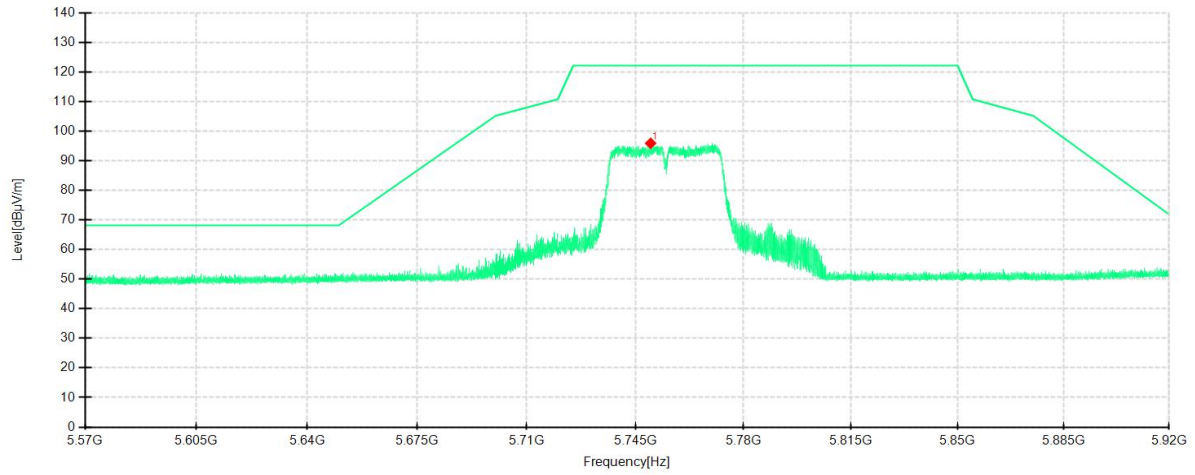
| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5829.0250        | 90.96             | 98.76           | 7.80         | 122.20          | 23.44        | 200          | 339        | Horizontal | /       |
| 1   | 5828.5000        | 92.94             | 100.68          | 7.74         | 122.20          | 21.52        | 200          | 343        | Vertical   | /       |

# IEEE 802.11n HT40 mode

Frequency 5755MHz

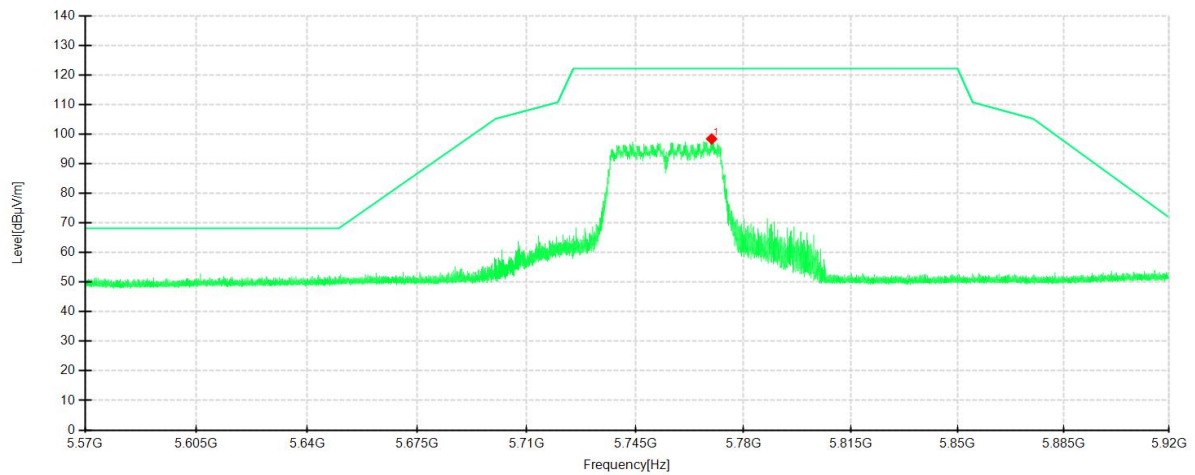
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



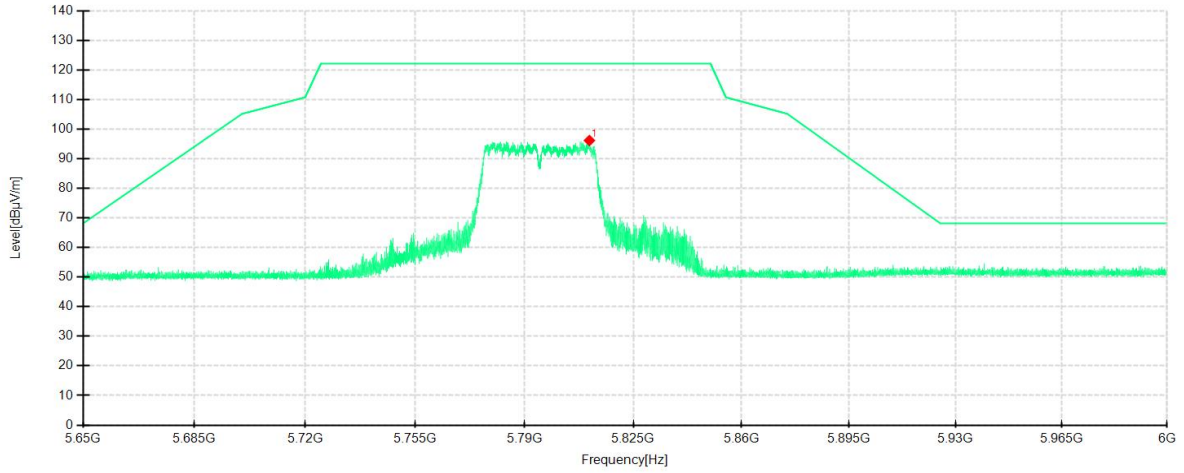
| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5749.9350        | 88.11             | 95.92           | 7.81         | 122.20          | 26.28        | 200          | 324        | Horizontal | /       |
| 1   | 5769.6925        | 90.60             | 98.42           | 7.82         | 122.20          | 23.78        | 200          | 344        | Vertical   | /       |

# IEEE 802.11n HT40 mode

Frequency 5795MHz

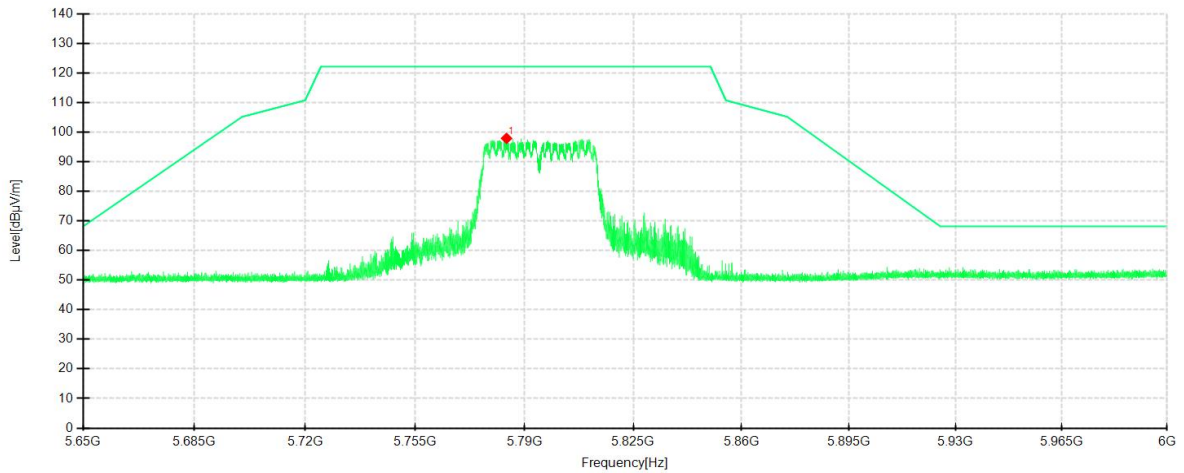
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



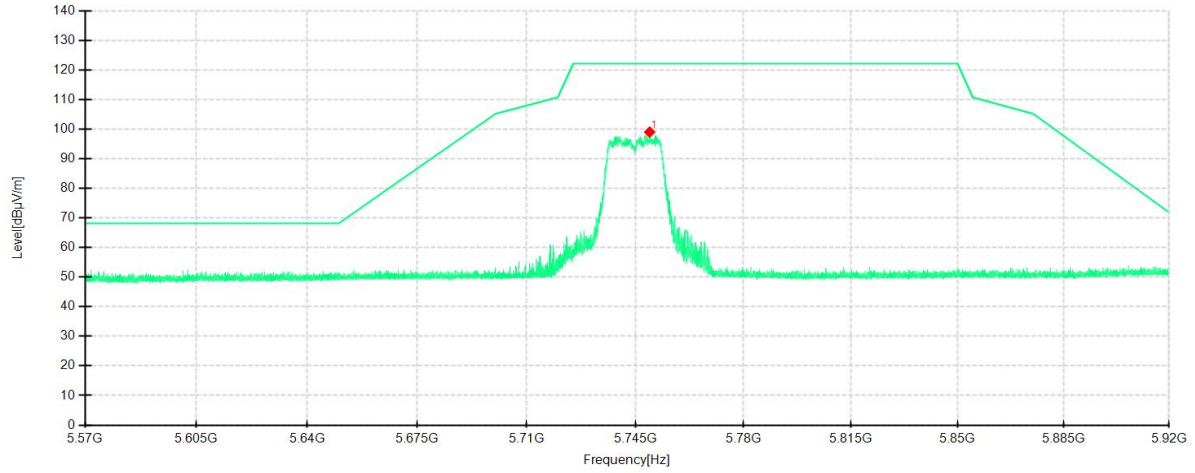
| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5810.8600        | 88.48             | 96.19           | 7.71         | 122.20          | 26.01        | 200          | 340        | Horizontal | /       |
| 1   | 5784.2250        | 90.18             | 97.93           | 7.75         | 122.20          | 24.27        | 200          | 343        | Vertical   | /       |

# IEEE 802.11ac VHT20 mode

Frequency 5745MHz

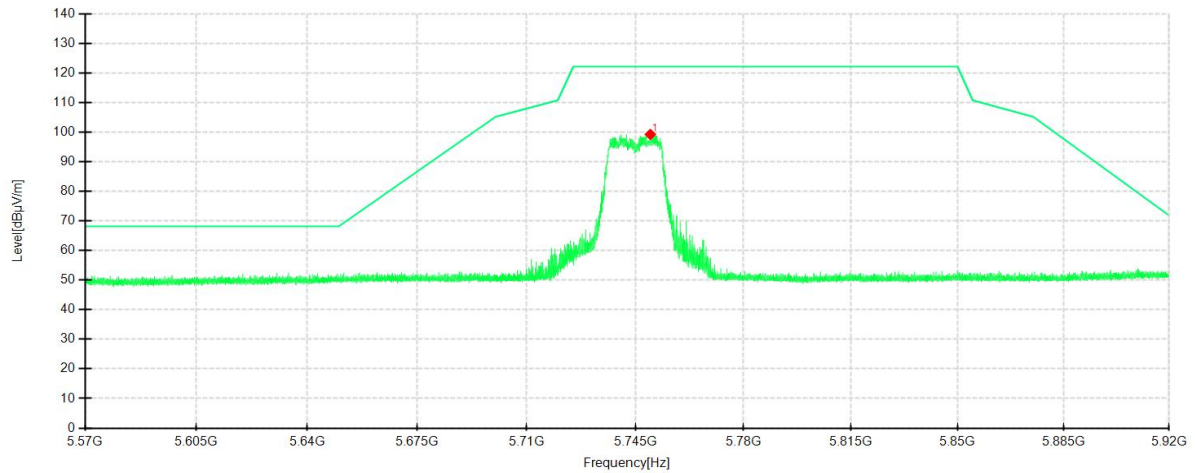
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



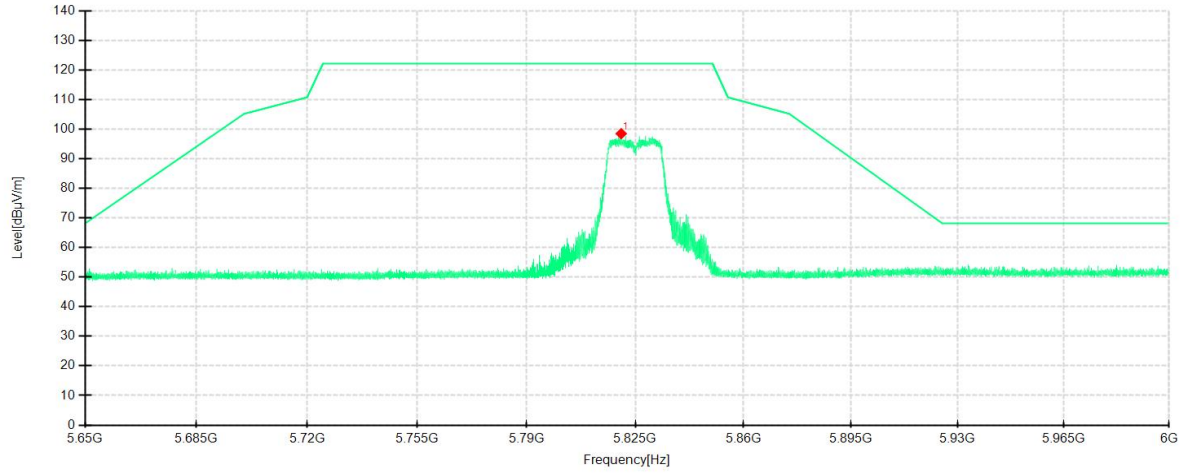
| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5749.6200        | 91.24             | 99.05           | 7.81         | 122.20          | 23.15        | 200          | 323        | Horizontal | /       |
| 1   | 5749.8475        | 91.34             | 99.25           | 7.91         | 122.20          | 22.95        | 200          | 344        | Vertical   | /       |

# IEEE 802.11ac VHT20 mode

Frequency 5825MHz

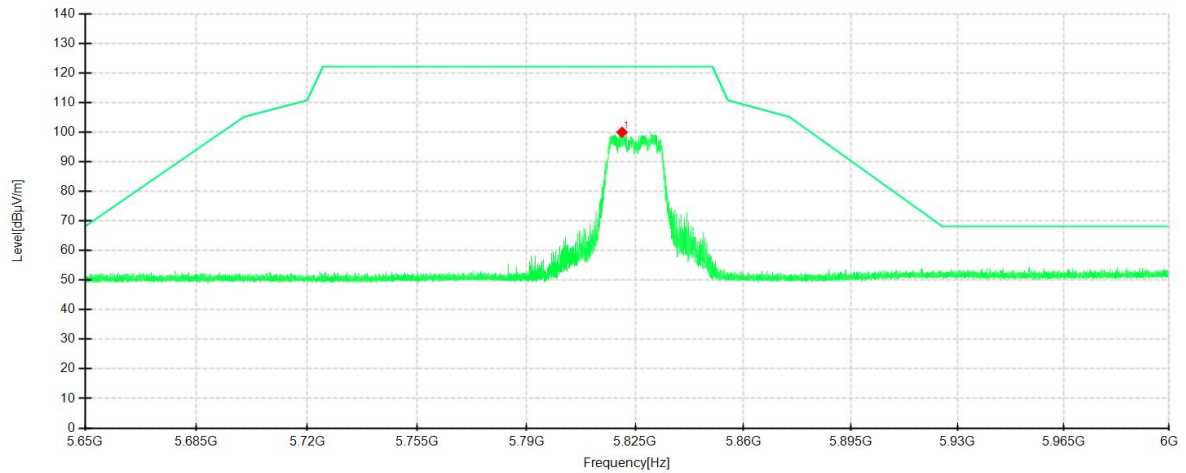
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



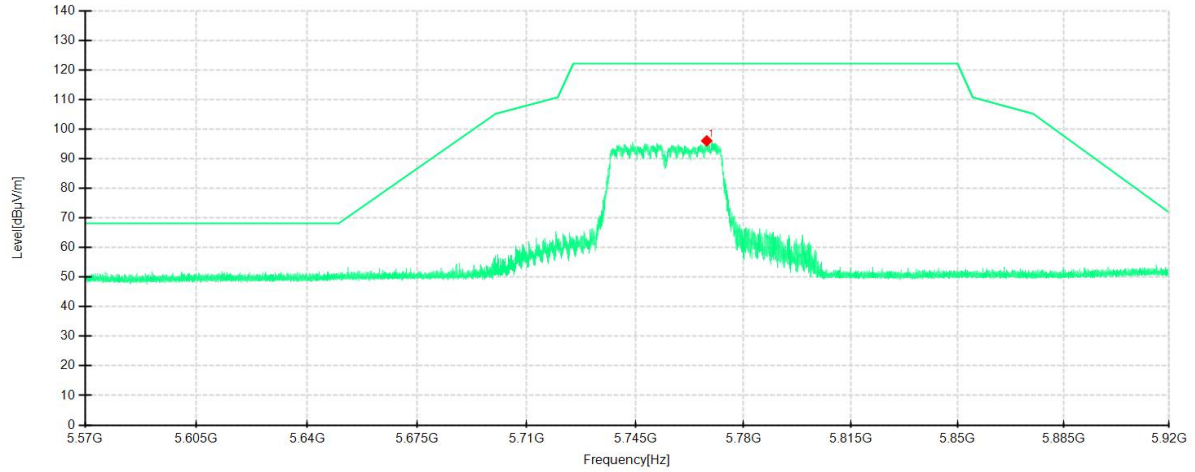
| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5820.4675        | 90.73             | 98.49           | 7.76         | 122.20          | 23.71        | 200          | 341        | Horizontal | /       |
| 1   | 5820.7475        | 92.28             | 100.00          | 7.72         | 122.20          | 22.20        | 200          | 344        | Vertical   | /       |

# IEEE 802.11ac VHT40 mode

Frequency 5755MHz

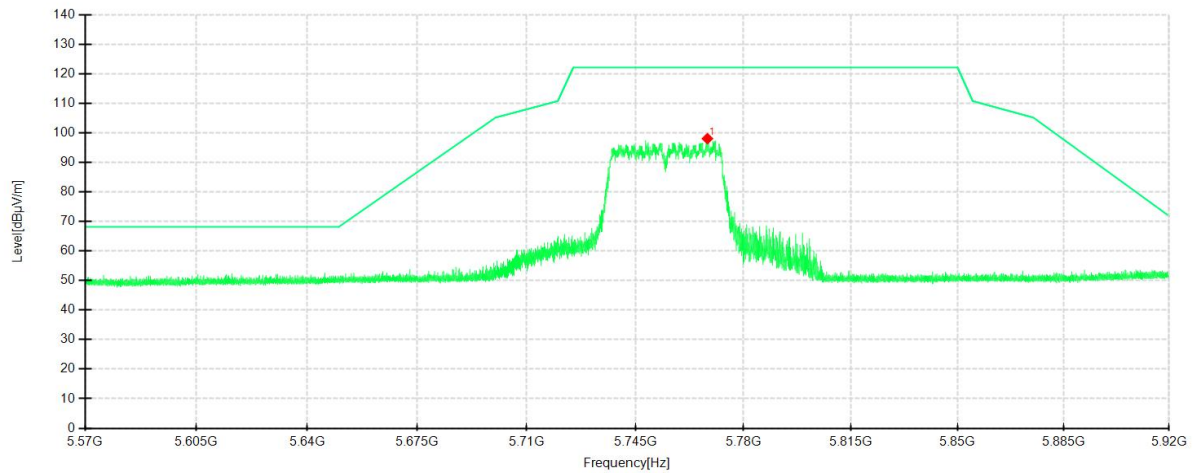
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



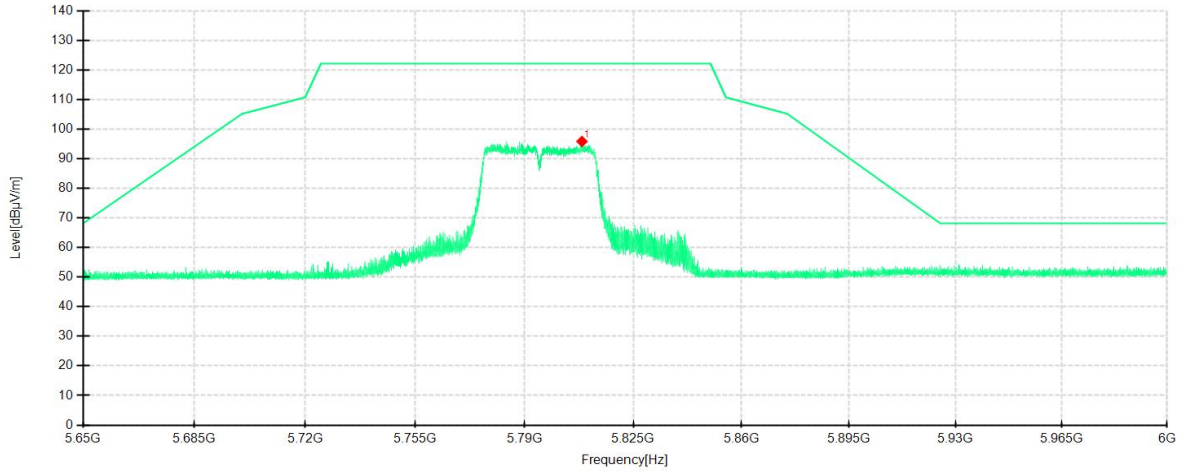
| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5768.1000        | 88.32             | 96.08           | 7.76         | 122.20          | 26.12        | 200          | 338        | Horizontal | /       |
| 1   | 5768.3275        | 90.25             | 98.07           | 7.82         | 122.20          | 24.13        | 200          | 344        | Vertical   | /       |

# IEEE 802.11ac VHT40 mode

Frequency 5795MHz

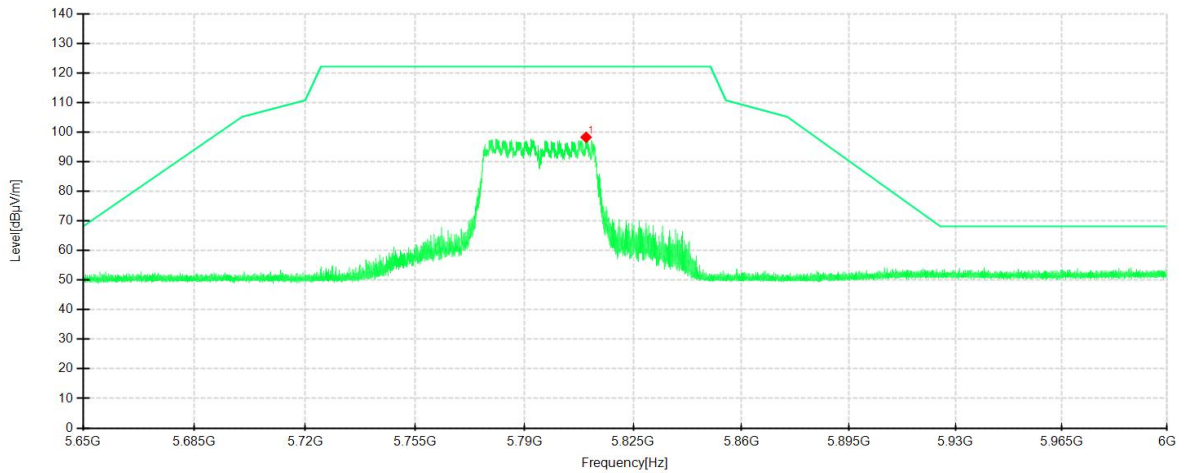
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



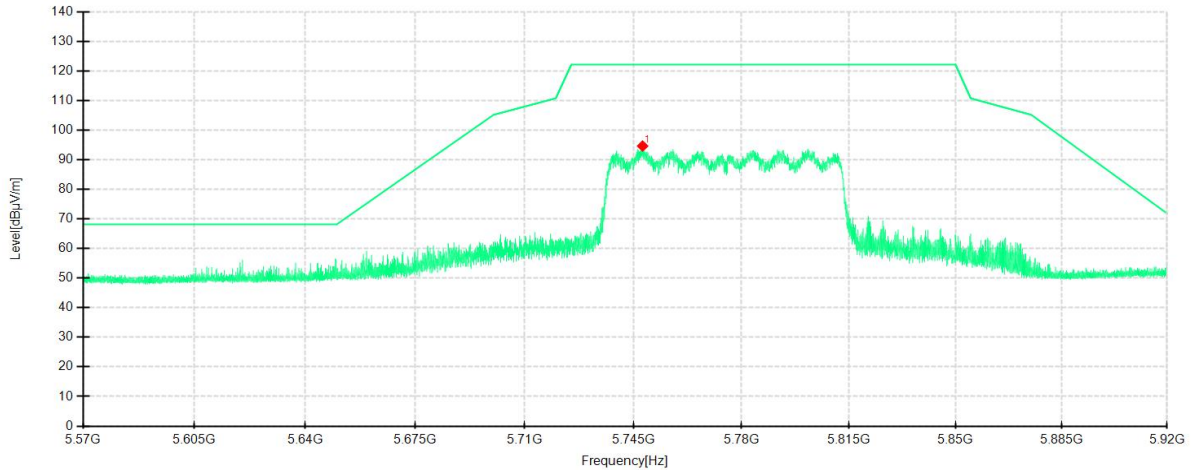
| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBuV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5808.4625        | 88.17             | 95.87           | 7.70         | 122.20          | 26.33        | 200          | 341        | Horizontal | /       |
| 1   | 5809.7925        | 90.59             | 98.28           | 7.69         | 122.20          | 23.92        | 200          | 346        | Vertical   | /       |

# IEEE 802.11ac VHT80 mode

Frequency 5775MHz

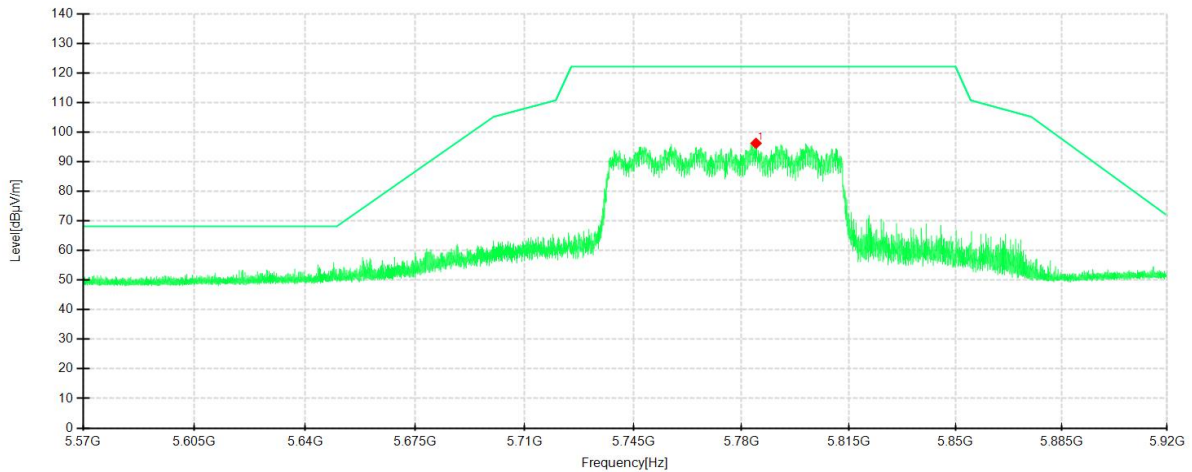
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



| No. | Frequency<br>MHz | Reading<br>dBμV/m | Level<br>dBμV/m | Factor<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Angle<br>° | Pole       | Comment |
|-----|------------------|-------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|---------|
| 1   | 5747.9925        | 86.86             | 94.66           | 7.80         | 122.20          | 27.54        | 200          | 322        | Horizontal | /       |
| 1   | 5784.7600        | 88.52             | 96.26           | 7.74         | 122.20          | 25.94        | 200          | 343        | Vertical   | /       |

Remark: Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

## 7.8. AC Conducted Emissions Measurement

### 7.8.1. Test Limit

| FCC Part 15.207 Limits |                    |                    |
|------------------------|--------------------|--------------------|
| Frequency<br>(MHz)     | QP<br>(dB $\mu$ V) | AV<br>(dB $\mu$ V) |
| 0.15 ~ 0.50            | 66 ~ 56            | 56 ~ 46            |
| 0.50 ~ 5.0             | 56                 | 46                 |
| 5.0 ~ 30               | 60                 | 50                 |

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

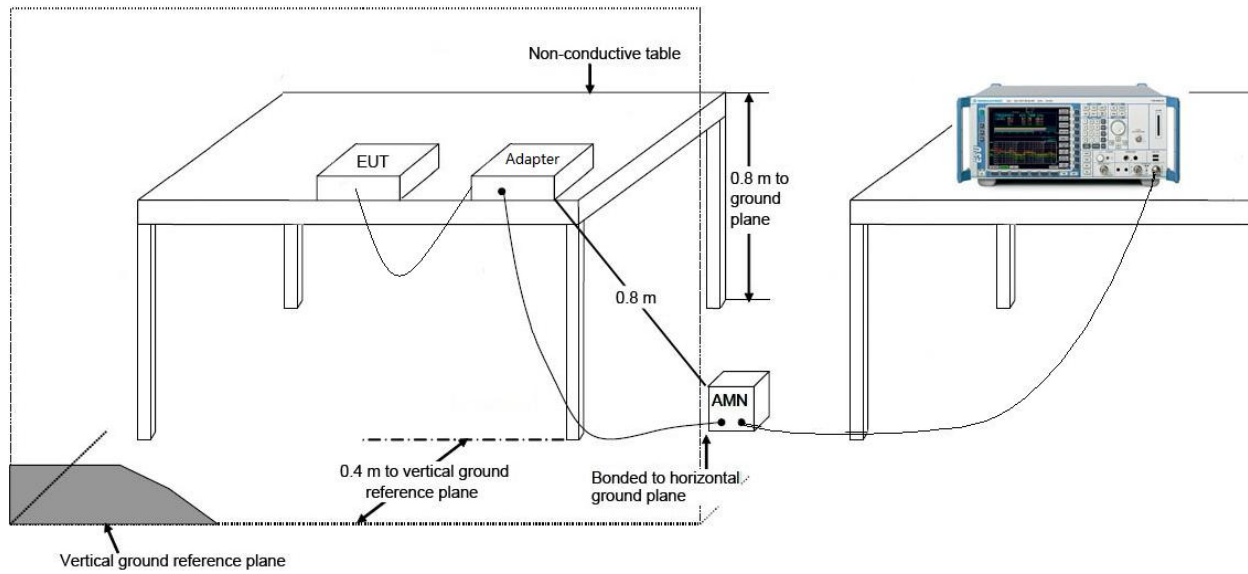
### 7.8.2. Test Procedure

The EUT was setup according to ANSI C63.4: 2014 and tested according to ANSI C63.10:2013 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

### 7.8.3. Test Setup



#### **7.8.4. Test Result**

Note: Test is not applicable to this Equipment. This EUT is no AC mains power ports.

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **MONITOR WITH RECEIVER** is in compliance with Part 15E of the FCC Rules.

## Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.
2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.
3. The client shall provide the test sample(s) and commission information and be responsible for their authenticity.
4. The report content is only applicable to the tested sample(s) this time.
5. If there are any objections to the report content, please submit them to our company in writing within 15 days from the date of receiving the report.
6. If the reports include both Chinese and English versions, when there are any inconsistencies caused by language, the Chinese version shall prevail.
7. This report is issued by the following laboratory premises:  
3/F., Comprehensive Laboratory Building, No.8, Ningyun Road, Xinwu District, Wuxi, Jiangsu, China (Ningyun Road Laboratory)

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