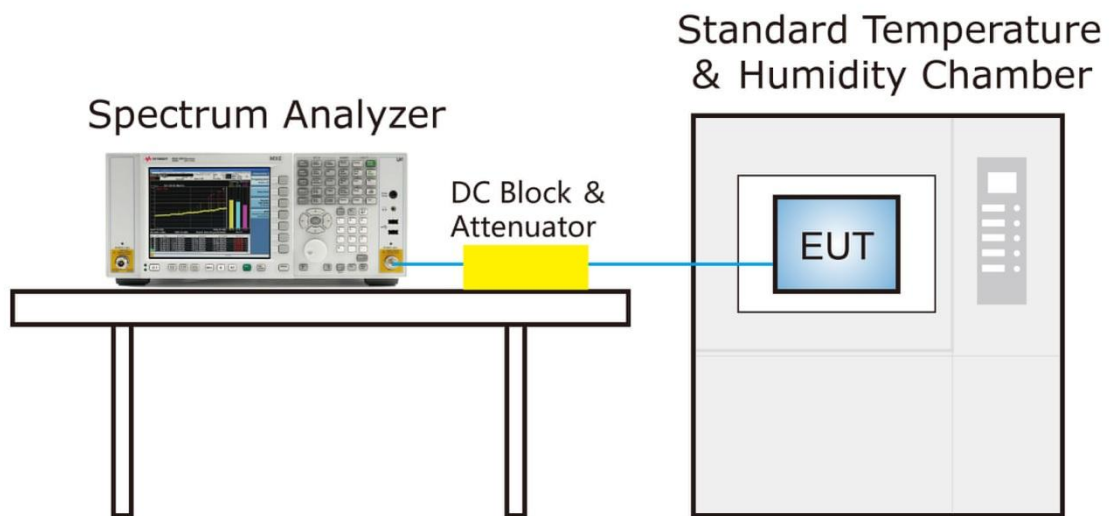


### 7.6.3. Test Setup



#### 7.6.4. Test Result

|               |                        |                   |            |
|---------------|------------------------|-------------------|------------|
| Product       | Notebook               | Temperature       | -30 ~ 50°C |
| Test Engineer | David Lv               | Relative Humidity | 46 ~ 55%RH |
| Test Site     | TR3                    | Test Time         | 2020/02/03 |
| Test Mode     | 5180MHz (Carrier Mode) |                   |            |

| Voltage (%) | Power (V <sub>AC</sub> ) | Temp (°C)  | Frequency Tolerance (ppm) |
|-------------|--------------------------|------------|---------------------------|
| 100%        | 120                      | - 30       | -3.03                     |
|             |                          | - 20       | -2.98                     |
|             |                          | - 10       | -2.94                     |
|             |                          | 0          | -2.91                     |
|             |                          | + 10       | -2.85                     |
|             |                          | + 20 (Ref) | -2.81                     |
|             |                          | + 30       | -2.72                     |
|             |                          | + 40       | -2.65                     |
|             |                          | + 50       | -2.54                     |
| 115%        | 138                      | + 20       | -2.75                     |
| 85%         | 102                      | + 20       | -2.79                     |

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} \*10<sup>6</sup>.

## 7.7. Radiated Spurious Emission Measurement

### 7.7.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 Limits |                          |                               |
|-----------------------------------------------|--------------------------|-------------------------------|
| Frequency<br>[MHz]                            | Field Strength<br>[uV/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 Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

### 7.7.3. Test Setting

**Table 1 - RBW as a function of frequency**

| Frequency     | RBW           |
|---------------|---------------|
| 9 ~ 150 kHz   | 200 ~ 300 Hz  |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz    |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |
| > 1000 MHz    | 1 MHz         |

**Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

**Peak Measurements above 1GHz**

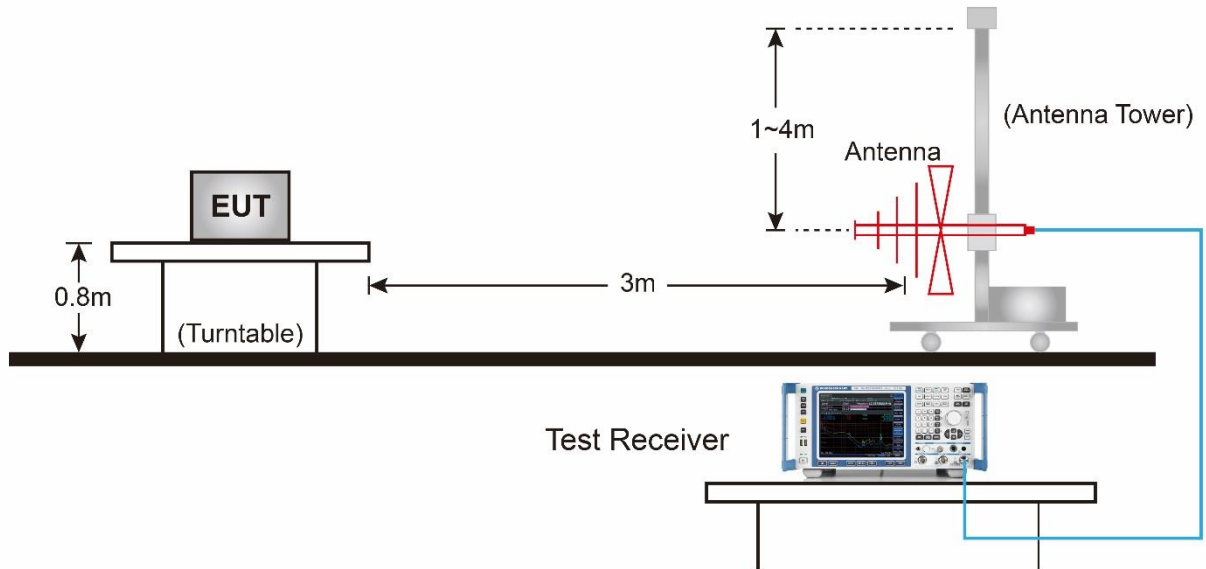
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

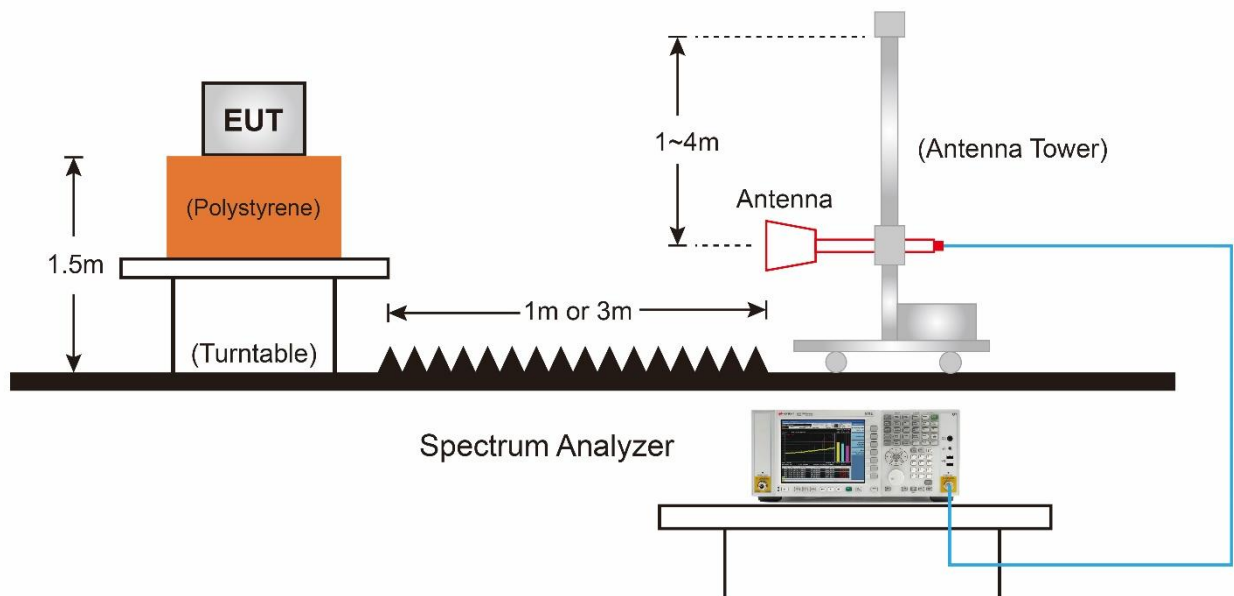
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.  
If the EUT duty cycle is  $< 98\%$ , set VBW  $\geq 1/T$ . T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

#### 7.7.4. Test Setup

##### Below 1GHz Test Setup:



##### Above 1GHz Test Setup:



### 7.7.5. Test Result

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11a                                                                                                                                                                           | Test Channel      | 36         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3881.5          | 33.6                 | 3.0         | 36.6                   | 74.0           | -37.4       | Peak     | Horizontal   |
|      | 4850.5          | 31.8                 | 5.9         | 37.7                   | 74.0           | -36.3       | Peak     | Horizontal   |
| *    | 5972.5          | 33.2                 | 7.7         | 40.9                   | 68.2           | -27.3       | Peak     | Horizontal   |
| *    | 6618.5          | 32.4                 | 9.6         | 42.0                   | 68.2           | -26.2       | Peak     | Horizontal   |
|      | 3847.5          | 33.4                 | 2.8         | 36.2                   | 74.0           | -37.8       | Peak     | Vertical     |
|      | 4859.0          | 30.8                 | 5.9         | 36.7                   | 74.0           | -37.3       | Peak     | Vertical     |
| *    | 5751.5          | 30.0                 | 7.4         | 37.4                   | 68.2           | -30.8       | Peak     | Vertical     |
| *    | 6516.5          | 31.7                 | 9.6         | 41.3                   | 68.2           | -26.9       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11a                                                                                                                                                                           | Test Channel      | 44         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3856.0          | 33.3                 | 2.8         | 36.1                   | 74.0           | -37.9       | Peak     | Horizontal   |
|      | 4731.5          | 31.2                 | 5.6         | 36.8                   | 74.0           | -37.2       | Peak     | Horizontal   |
| *    | 5768.5          | 30.9                 | 7.5         | 38.4                   | 68.2           | -29.8       | Peak     | Horizontal   |
| *    | 6907.5          | 32.6                 | 10.2        | 42.8                   | 68.2           | -25.4       | Peak     | Horizontal   |
|      | 3898.5          | 33.8                 | 3.1         | 36.9                   | 74.0           | -37.1       | Peak     | Vertical     |
|      | 4621.0          | 33.2                 | 5.2         | 38.4                   | 74.0           | -35.6       | Peak     | Vertical     |
| *    | 5989.5          | 32.6                 | 7.8         | 40.4                   | 68.2           | -27.8       | Peak     | Vertical     |
| *    | 7927.5          | 32.2                 | 12.4        | 44.6                   | 68.2           | -23.6       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11a                                                                                                                                                                           | Test Channel      | 48         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3881.5          | 33.5                 | 3.0         | 36.5                   | 74.0           | -37.5       | Peak     | Horizontal   |
|      | 4876.0          | 31.3                 | 5.9         | 37.2                   | 74.0           | -36.8       | Peak     | Horizontal   |
| *    | 6482.5          | 31.6                 | 9.3         | 40.9                   | 68.2           | -27.3       | Peak     | Horizontal   |
| *    | 9661.5          | 30.4                 | 16.4        | 46.8                   | 68.2           | -21.4       | Peak     | Horizontal   |
|      | 3890.0          | 33.3                 | 3.0         | 36.3                   | 74.0           | -37.7       | Peak     | Vertical     |
|      | 4740.0          | 31.8                 | 5.7         | 37.5                   | 74.0           | -36.5       | Peak     | Vertical     |
| *    | 6542.0          | 31.4                 | 9.5         | 40.9                   | 68.2           | -27.3       | Peak     | Vertical     |
| *    | 9755.0          | 29.3                 | 16.7        | 46.0                   | 68.2           | -22.2       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11a                                                                                                                                                                           | Test Channel      | 149        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3856.0          | 33.2                 | 2.8         | 36.0                   | 74.0           | -38.0       | Peak     | Horizontal   |
|      | 5071.5          | 30.8                 | 6.7         | 37.5                   | 74.0           | -36.5       | Peak     | Horizontal   |
| *    | 6278.5          | 31.4                 | 8.5         | 39.9                   | 68.2           | -28.3       | Peak     | Horizontal   |
| *    | 8735.0          | 30.5                 | 14.0        | 44.5                   | 68.2           | -23.7       | Peak     | Horizontal   |
|      | 3932.5          | 33.7                 | 3.1         | 36.8                   | 74.0           | -37.2       | Peak     | Vertical     |
|      | 4638.0          | 32.6                 | 5.2         | 37.8                   | 74.0           | -36.2       | Peak     | Vertical     |
| *    | 6057.5          | 32.6                 | 7.8         | 40.4                   | 68.2           | -27.8       | Peak     | Vertical     |
| *    | 8633.0          | 32.0                 | 13.5        | 45.5                   | 68.2           | -22.7       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11a                                                                                                                                                                           | Test Channel      | 157        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3932.5          | 33.2                 | 3.1         | 36.3                   | 74.0           | -37.7       | Peak     | Horizontal   |
|      | 4850.5          | 32.8                 | 5.9         | 38.7                   | 74.0           | -35.3       | Peak     | Horizontal   |
| *    | 6015.0          | 31.5                 | 7.9         | 39.4                   | 68.2           | -28.8       | Peak     | Horizontal   |
| *    | 8803.0          | 30.2                 | 14.2        | 44.4                   | 68.2           | -23.8       | Peak     | Horizontal   |
|      | 3788.0          | 33.9                 | 2.7         | 36.6                   | 74.0           | -37.4       | Peak     | Vertical     |
|      | 4740.0          | 32.2                 | 5.7         | 37.9                   | 74.0           | -36.1       | Peak     | Vertical     |
| *    | 6533.5          | 31.4                 | 9.5         | 40.9                   | 68.2           | -27.3       | Peak     | Vertical     |
| *    | 7910.5          | 30.2                 | 12.2        | 42.4                   | 68.2           | -25.8       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11a                                                                                                                                                                           | Test Channel      | 165        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3873.0          | 33.3                 | 3.0         | 36.3                   | 74.0           | -37.7       | Peak     | Horizontal   |
|      | 4859.0          | 30.0                 | 5.9         | 35.9                   | 74.0           | -38.1       | Peak     | Horizontal   |
| *    | 6168.0          | 31.9                 | 8.3         | 40.2                   | 68.2           | -28.0       | Peak     | Horizontal   |
| *    | 7876.5          | 32.1                 | 12.1        | 44.2                   | 68.2           | -24.0       | Peak     | Horizontal   |
|      | 3881.5          | 33.1                 | 3.0         | 36.1                   | 74.0           | -37.9       | Peak     | Vertical     |
|      | 4638.0          | 32.2                 | 5.2         | 37.4                   | 74.0           | -36.6       | Peak     | Vertical     |
| *    | 5998.0          | 32.2                 | 7.9         | 40.1                   | 68.2           | -28.1       | Peak     | Vertical     |
| *    | 7766.0          | 33.0                 | 11.7        | 44.7                   | 68.2           | -23.5       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11n-HT20                                                                                                                                                                      | Test Channel      | 36         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3881.5          | 33.3                 | 3.0         | 36.3                   | 74.0           | -37.7       | Peak     | Horizontal   |
|      | 5071.5          | 31.7                 | 6.7         | 38.4                   | 74.0           | -35.6       | Peak     | Horizontal   |
| *    | 6287.0          | 31.7                 | 8.4         | 40.1                   | 68.2           | -28.1       | Peak     | Horizontal   |
| *    | 7077.5          | 32.0                 | 11.2        | 43.2                   | 68.2           | -25.0       | Peak     | Horizontal   |
|      | 3898.5          | 35.4                 | 3.1         | 38.5                   | 74.0           | -35.5       | Peak     | Vertical     |
|      | 4621.0          | 33.0                 | 5.2         | 38.2                   | 74.0           | -35.8       | Peak     | Vertical     |
| *    | 5879.0          | 31.7                 | 7.6         | 39.3                   | 68.2           | -28.9       | Peak     | Vertical     |
| *    | 6907.5          | 34.4                 | 10.2        | 44.6                   | 68.2           | -23.6       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11n-HT20                                                                                                                                                                      | Test Channel      | 44         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3830.5          | 33.7                 | 2.9         | 36.6                   | 74.0           | -37.4       | Peak     | Horizontal   |
|      | 4833.5          | 31.6                 | 6.0         | 37.6                   | 74.0           | -36.4       | Peak     | Horizontal   |
| *    | 5930.0          | 32.5                 | 7.8         | 40.3                   | 68.2           | -27.9       | Peak     | Horizontal   |
| *    | 7077.5          | 32.6                 | 11.2        | 43.8                   | 68.2           | -24.4       | Peak     | Horizontal   |
|      | 3907.0          | 33.6                 | 3.1         | 36.7                   | 74.0           | -37.3       | Peak     | Vertical     |
|      | 4621.0          | 32.2                 | 5.2         | 37.4                   | 74.0           | -36.6       | Peak     | Vertical     |
| *    | 6958.5          | 35.0                 | 10.5        | 45.5                   | 68.2           | -22.7       | Peak     | Vertical     |
| *    | 7961.5          | 32.7                 | 12.4        | 45.1                   | 68.2           | -23.1       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11n-HT20                                                                                                                                                                      | Test Channel      | 48         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3907.0          | 33.9                 | 3.1         | 37.0                   | 74.0           | -37.0       | Peak     | Horizontal   |
|      | 4799.5          | 31.9                 | 5.8         | 37.7                   | 74.0           | -36.3       | Peak     | Horizontal   |
| *    | 5930.0          | 31.2                 | 7.8         | 39.0                   | 68.2           | -29.2       | Peak     | Horizontal   |
| *    | 7859.5          | 31.8                 | 12.0        | 43.8                   | 68.2           | -24.4       | Peak     | Horizontal   |
|      | 3890.0          | 33.2                 | 3.0         | 36.2                   | 74.0           | -37.8       | Peak     | Vertical     |
|      | 4621.0          | 31.7                 | 5.2         | 36.9                   | 74.0           | -37.1       | Peak     | Vertical     |
| *    | 6083.0          | 32.1                 | 8.1         | 40.2                   | 68.2           | -28.0       | Peak     | Vertical     |
| *    | 6984.0          | 35.0                 | 10.6        | 45.6                   | 68.2           | -22.6       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11n-HT20                                                                                                                                                                      | Test Channel      | 149        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3941.0          | 33.3                 | 3.2         | 36.5                   | 74.0           | -37.5       | Peak     | Horizontal   |
|      | 4621.0          | 32.1                 | 5.2         | 37.3                   | 74.0           | -36.7       | Peak     | Horizontal   |
| *    | 6635.5          | 32.0                 | 9.6         | 41.6                   | 68.2           | -26.6       | Peak     | Horizontal   |
| *    | 7052.0          | 32.5                 | 10.9        | 43.4                   | 68.2           | -24.8       | Peak     | Horizontal   |
|      | 3873.0          | 34.0                 | 3.0         | 37.0                   | 74.0           | -37.0       | Peak     | Vertical     |
|      | 4893.0          | 32.0                 | 6.0         | 38.0                   | 74.0           | -36.0       | Peak     | Vertical     |
| *    | 6525.0          | 30.8                 | 9.6         | 40.4                   | 68.2           | -27.8       | Peak     | Vertical     |
| *    | 7077.5          | 33.2                 | 11.2        | 44.4                   | 68.2           | -23.8       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11n-HT20                                                                                                                                                                      | Test Channel      | 157        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3898.5          | 33.4                 | 3.1         | 36.5                   | 74.0           | -37.5       | Peak     | Horizontal   |
|      | 4629.5          | 33.0                 | 5.2         | 38.2                   | 74.0           | -35.8       | Peak     | Horizontal   |
| *    | 5989.5          | 31.6                 | 7.8         | 39.4                   | 68.2           | -28.8       | Peak     | Horizontal   |
| *    | 6958.5          | 32.6                 | 10.5        | 43.1                   | 68.2           | -25.1       | Peak     | Horizontal   |
|      | 3771.0          | 33.5                 | 2.8         | 36.3                   | 74.0           | -37.7       | Peak     | Vertical     |
|      | 4621.0          | 32.1                 | 5.2         | 37.3                   | 74.0           | -36.7       | Peak     | Vertical     |
| *    | 6083.0          | 32.4                 | 8.1         | 40.5                   | 68.2           | -27.7       | Peak     | Vertical     |
| *    | 6916.0          | 32.5                 | 10.3        | 42.8                   | 68.2           | -25.4       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11n-HT20                                                                                                                                                                      | Test Channel      | 165        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3890.0          | 33.6                 | 3.0         | 36.6                   | 74.0           | -37.4       | Peak     | Horizontal   |
|      | 5131.0          | 32.0                 | 6.9         | 38.9                   | 74.0           | -35.1       | Peak     | Horizontal   |
| *    | 6049.0          | 31.8                 | 7.7         | 39.5                   | 68.2           | -28.7       | Peak     | Horizontal   |
| *    | 6958.5          | 32.6                 | 10.5        | 43.1                   | 68.2           | -25.1       | Peak     | Horizontal   |
|      | 3856.0          | 34.1                 | 2.8         | 36.9                   | 74.0           | -37.1       | Peak     | Vertical     |
|      | 4629.5          | 32.2                 | 5.2         | 37.4                   | 74.0           | -36.6       | Peak     | Vertical     |
| *    | 6074.5          | 31.5                 | 8.0         | 39.5                   | 68.2           | -28.7       | Peak     | Vertical     |
| *    | 6873.5          | 33.4                 | 10.1        | 43.5                   | 68.2           | -24.7       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11n-HT40                                                                                                                                                                      | Test Channel      | 38         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3890.0          | 34.0                 | 3.0         | 37.0                   | 74.0           | -37.0       | Peak     | Horizontal   |
|      | 4442.5          | 31.6                 | 4.5         | 36.1                   | 68.2           | -32.1       | Peak     | Horizontal   |
| *    | 6533.5          | 31.4                 | 9.5         | 40.9                   | 68.2           | -27.3       | Peak     | Horizontal   |
| *    | 7026.5          | 32.8                 | 10.9        | 43.7                   | 68.2           | -24.5       | Peak     | Horizontal   |
|      | 3873.0          | 33.4                 | 3.0         | 36.4                   | 74.0           | -37.6       | Peak     | Vertical     |
|      | 4850.5          | 31.2                 | 5.9         | 37.1                   | 74.0           | -36.9       | Peak     | Vertical     |
| *    | 6508.0          | 31.2                 | 9.7         | 40.9                   | 68.2           | -27.3       | Peak     | Vertical     |
| *    | 6916.0          | 34.1                 | 10.3        | 44.4                   | 68.2           | -23.8       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11n-HT40                                                                                                                                                                      | Test Channel      | 46         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3762.5          | 34.1                 | 2.7         | 36.8                   | 74.0           | -37.2       | Peak     | Horizontal   |
|      | 4986.5          | 31.6                 | 6.4         | 38.0                   | 74.0           | -36.0       | Peak     | Horizontal   |
| *    | 6074.5          | 32.0                 | 8.0         | 40.0                   | 68.2           | -28.2       | Peak     | Horizontal   |
| *    | 6975.5          | 34.0                 | 10.5        | 44.5                   | 68.2           | -23.7       | Peak     | Horizontal   |
|      | 4119.5          | 32.9                 | 3.5         | 36.4                   | 74.0           | -37.6       | Peak     | Vertical     |
|      | 4757.0          | 31.4                 | 5.8         | 37.2                   | 74.0           | -36.8       | Peak     | Vertical     |
| *    | 6040.5          | 31.6                 | 7.8         | 39.4                   | 68.2           | -28.8       | Peak     | Vertical     |
| *    | 6975.5          | 34.0                 | 10.5        | 44.5                   | 68.2           | -23.7       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11n-HT40                                                                                                                                                                      | Test Channel      | 151        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3958.0          | 33.3                 | 3.2         | 36.5                   | 74.0           | -37.5       | Peak     | Horizontal   |
|      | 4638.0          | 33.2                 | 5.2         | 38.4                   | 74.0           | -35.6       | Peak     | Horizontal   |
| *    | 6839.5          | 33.4                 | 10.0        | 43.4                   | 68.2           | -24.8       | Peak     | Horizontal   |
| *    | 7961.5          | 32.5                 | 12.4        | 44.9                   | 68.2           | -23.3       | Peak     | Horizontal   |
|      | 3754.0          | 33.9                 | 2.6         | 36.5                   | 74.0           | -37.5       | Peak     | Vertical     |
|      | 4646.5          | 31.9                 | 5.3         | 37.2                   | 74.0           | -36.8       | Peak     | Vertical     |
| *    | 6083.0          | 31.6                 | 8.1         | 39.7                   | 68.2           | -28.5       | Peak     | Vertical     |
| *    | 7936.0          | 31.6                 | 12.5        | 44.1                   | 68.2           | -24.1       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11n-HT40                                                                                                                                                                      | Test Channel      | 159        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3873.0          | 33.4                 | 3.0         | 36.4                   | 74.0           | -37.6       | Peak     | Horizontal   |
|      | 4969.5          | 31.4                 | 6.3         | 37.7                   | 74.0           | -36.3       | Peak     | Horizontal   |
| *    | 6533.5          | 32.2                 | 9.5         | 41.7                   | 68.2           | -26.5       | Peak     | Horizontal   |
| *    | 7859.5          | 32.3                 | 12.0        | 44.3                   | 68.2           | -23.9       | Peak     | Horizontal   |
|      | 3771.0          | 33.0                 | 2.8         | 35.8                   | 74.0           | -38.2       | Peak     | Vertical     |
|      | 4859.0          | 31.4                 | 5.9         | 37.3                   | 74.0           | -36.7       | Peak     | Vertical     |
| *    | 6227.5          | 32.0                 | 8.3         | 40.3                   | 68.2           | -27.9       | Peak     | Vertical     |
| *    | 6984.0          | 32.8                 | 10.6        | 43.4                   | 68.2           | -24.8       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11ac-VHT20                                                                                                                                                                    | Test Channel      | 36         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3881.5          | 33.5                 | 3.0         | 36.5                   | 74.0           | -37.5       | Peak     | Horizontal   |
|      | 4842.0          | 32.4                 | 5.9         | 38.3                   | 74.0           | -35.7       | Peak     | Horizontal   |
| *    | 6074.5          | 30.3                 | 8.0         | 38.3                   | 68.2           | -29.9       | Peak     | Horizontal   |
| *    | 7086.0          | 32.8                 | 11.3        | 44.1                   | 68.2           | -24.1       | Peak     | Horizontal   |
|      | 3881.5          | 33.1                 | 3.0         | 36.1                   | 74.0           | -37.9       | Peak     | Vertical     |
|      | 4646.5          | 31.8                 | 5.3         | 37.1                   | 74.0           | -36.9       | Peak     | Vertical     |
| *    | 5896.0          | 31.8                 | 7.7         | 39.5                   | 68.2           | -28.7       | Peak     | Vertical     |
| *    | 6907.5          | 34.2                 | 10.2        | 44.4                   | 68.2           | -23.8       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11ac-VHT20                                                                                                                                                                    | Test Channel      | 44         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3975.0          | 32.7                 | 3.3         | 36.0                   | 74.0           | -38.0       | Peak     | Horizontal   |
|      | 4748.5          | 30.3                 | 5.7         | 36.0                   | 74.0           | -38.0       | Peak     | Horizontal   |
| *    | 5819.5          | 32.3                 | 7.6         | 39.9                   | 68.2           | -28.3       | Peak     | Horizontal   |
| *    | 7961.5          | 32.2                 | 12.4        | 44.6                   | 68.2           | -23.6       | Peak     | Horizontal   |
|      | 3830.5          | 32.9                 | 2.9         | 35.8                   | 74.0           | -38.2       | Peak     | Vertical     |
|      | 4799.5          | 31.3                 | 5.8         | 37.1                   | 74.0           | -36.9       | Peak     | Vertical     |
| *    | 6533.5          | 31.7                 | 9.5         | 41.2                   | 68.2           | -27.0       | Peak     | Vertical     |
| *    | 7103.0          | 32.4                 | 11.3        | 43.7                   | 68.2           | -24.5       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11ac-VHT20                                                                                                                                                                    | Test Channel      | 48         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4017.5          | 33.4                 | 3.3         | 36.7                   | 74.0           | -37.3       | Peak     | Horizontal   |
|      | 4740.0          | 31.5                 | 5.7         | 37.2                   | 74.0           | -36.8       | Peak     | Horizontal   |
| *    | 5998.0          | 31.1                 | 7.9         | 39.0                   | 68.2           | -29.2       | Peak     | Horizontal   |
| *    | 7086.0          | 33.5                 | 11.3        | 44.8                   | 68.2           | -23.4       | Peak     | Horizontal   |
|      | 3992.0          | 33.5                 | 3.4         | 36.9                   | 74.0           | -37.1       | Peak     | Vertical     |
|      | 4748.5          | 30.5                 | 5.7         | 36.2                   | 74.0           | -37.8       | Peak     | Vertical     |
| *    | 5998.0          | 32.3                 | 7.9         | 40.2                   | 68.2           | -28.0       | Peak     | Vertical     |
| *    | 6984.0          | 35.2                 | 10.6        | 45.8                   | 68.2           | -22.4       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11ac-VHT20                                                                                                                                                                    | Test Channel      | 149        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3873.0          | 34.2                 | 3.0         | 37.2                   | 74.0           | -36.8       | Peak     | Horizontal   |
|      | 4952.5          | 32.3                 | 6.2         | 38.5                   | 74.0           | -35.5       | Peak     | Horizontal   |
| *    | 5632.5          | 32.0                 | 7.0         | 39.0                   | 68.2           | -29.2       | Peak     | Horizontal   |
| *    | 7936.0          | 31.7                 | 12.5        | 44.2                   | 68.2           | -24.0       | Peak     | Horizontal   |
|      | 3779.5          | 33.4                 | 2.8         | 36.2                   | 74.0           | -37.8       | Peak     | Vertical     |
|      | 4833.5          | 30.9                 | 6.0         | 36.9                   | 74.0           | -37.1       | Peak     | Vertical     |
| *    | 6049.0          | 31.5                 | 7.7         | 39.2                   | 68.2           | -29.0       | Peak     | Vertical     |
| *    | 7035.0          | 32.8                 | 10.9        | 43.7                   | 68.2           | -24.5       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11ac-VHT20                                                                                                                                                                    | Test Channel      | 157        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3762.5          | 33.6                 | 2.7         | 36.3                   | 74.0           | -37.7       | Peak     | Horizontal   |
|      | 4663.5          | 32.1                 | 5.4         | 37.5                   | 74.0           | -36.5       | Peak     | Horizontal   |
| *    | 5267.0          | 30.9                 | 6.6         | 37.5                   | 68.2           | -30.7       | Peak     | Horizontal   |
| *    | 6584.5          | 29.9                 | 9.8         | 39.7                   | 68.2           | -28.5       | Peak     | Horizontal   |
|      | 3898.5          | 33.7                 | 3.1         | 36.8                   | 74.0           | -37.2       | Peak     | Vertical     |
|      | 4714.5          | 30.4                 | 5.5         | 35.9                   | 74.0           | -38.1       | Peak     | Vertical     |
| *    | 5666.5          | 30.9                 | 7.3         | 38.2                   | 68.2           | -30.0       | Peak     | Vertical     |
| *    | 6890.5          | 32.5                 | 10.0        | 42.5                   | 68.2           | -25.7       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11ac-VHT20                                                                                                                                                                    | Test Channel      | 165        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3771.0          | 33.4                 | 2.8         | 36.2                   | 74.0           | -37.8       | Peak     | Horizontal   |
|      | 4621.0          | 31.7                 | 5.2         | 36.9                   | 74.0           | -37.1       | Peak     | Horizontal   |
| *    | 5998.0          | 31.9                 | 7.9         | 39.8                   | 68.2           | -28.4       | Peak     | Horizontal   |
| *    | 7885.0          | 33.1                 | 12.1        | 45.2                   | 68.2           | -23.0       | Peak     | Horizontal   |
|      | 3839.0          | 33.5                 | 2.9         | 36.4                   | 74.0           | -37.6       | Peak     | Vertical     |
|      | 4731.5          | 32.4                 | 5.6         | 38.0                   | 74.0           | -36.0       | Peak     | Vertical     |
| *    | 5989.5          | 32.3                 | 7.8         | 40.1                   | 68.2           | -28.1       | Peak     | Vertical     |
| *    | 6950.0          | 32.3                 | 10.5        | 42.8                   | 68.2           | -25.4       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11ac-VHT40                                                                                                                                                                    | Test Channel      | 38         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3779.5          | 33.0                 | 2.8         | 35.8                   | 74.0           | -38.2       | Peak     | Horizontal   |
|      | 4612.5          | 32.0                 | 5.1         | 37.1                   | 74.0           | -36.9       | Peak     | Horizontal   |
| *    | 6321.0          | 31.6                 | 8.5         | 40.1                   | 68.2           | -28.1       | Peak     | Horizontal   |
| *    | 7162.5          | 32.9                 | 11.5        | 44.4                   | 68.2           | -23.8       | Peak     | Horizontal   |
|      | 3890.0          | 33.8                 | 3.0         | 36.8                   | 74.0           | -37.2       | Peak     | Vertical     |
|      | 4774.0          | 31.0                 | 5.6         | 36.6                   | 74.0           | -37.4       | Peak     | Vertical     |
| *    | 6499.5          | 33.0                 | 9.5         | 42.5                   | 68.2           | -25.7       | Peak     | Vertical     |
| *    | 6916.0          | 34.4                 | 10.3        | 44.7                   | 68.2           | -23.5       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11ac-VHT40                                                                                                                                                                    | Test Channel      | 46         |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3983.5          | 33.2                 | 3.3         | 36.5                   | 74.0           | -37.5       | Peak     | Horizontal   |
|      | 4765.5          | 31.4                 | 5.7         | 37.1                   | 74.0           | -36.9       | Peak     | Horizontal   |
| *    | 6100.0          | 32.4                 | 8.1         | 40.5                   | 68.2           | -27.7       | Peak     | Horizontal   |
| *    | 7953.0          | 32.3                 | 12.5        | 44.8                   | 68.2           | -23.4       | Peak     | Horizontal   |
|      | 3762.5          | 33.9                 | 2.7         | 36.6                   | 74.0           | -37.4       | Peak     | Vertical     |
|      | 4629.5          | 33.1                 | 5.2         | 38.3                   | 74.0           | -35.7       | Peak     | Vertical     |
| *    | 5972.5          | 31.5                 | 7.7         | 39.2                   | 68.2           | -29.0       | Peak     | Vertical     |
| *    | 6975.5          | 34.4                 | 10.5        | 44.9                   | 68.2           | -23.3       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11ac-VHT40                                                                                                                                                                    | Test Channel      | 151        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3907.0          | 33.6                 | 3.1         | 36.7                   | 74.0           | -37.3       | Peak     | Horizontal   |
|      | 4638.0          | 33.9                 | 5.2         | 39.1                   | 74.0           | -34.9       | Peak     | Horizontal   |
| *    | 5896.0          | 30.8                 | 7.7         | 38.5                   | 68.2           | -29.7       | Peak     | Horizontal   |
| *    | 7876.5          | 31.5                 | 12.1        | 43.6                   | 68.2           | -24.6       | Peak     | Horizontal   |
|      | 3873.0          | 34.2                 | 3.0         | 37.2                   | 74.0           | -36.8       | Peak     | Vertical     |
|      | 4859.0          | 30.9                 | 5.9         | 36.8                   | 74.0           | -37.2       | Peak     | Vertical     |
| *    | 6049.0          | 32.0                 | 7.7         | 39.7                   | 68.2           | -28.5       | Peak     | Vertical     |
| *    | 7077.5          | 32.9                 | 11.2        | 44.1                   | 68.2           | -24.1       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | David Lv                                                                                                                                                                          | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode     | 802.11ac-VHT40                                                                                                                                                                    | Test Channel      | 159        |
| Note          | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3779.5          | 34.0                 | 2.8         | 36.8                   | 74.0           | -37.2       | Peak     | Horizontal   |
|      | 4621.0          | 32.2                 | 5.2         | 37.4                   | 74.0           | -36.6       | Peak     | Horizontal   |
| *    | 5267.0          | 30.7                 | 6.6         | 37.3                   | 68.2           | -30.9       | Peak     | Horizontal   |
| *    | 6491.0          | 31.4                 | 9.4         | 40.8                   | 68.2           | -27.4       | Peak     | Horizontal   |
|      | 3779.5          | 34.0                 | 2.8         | 36.8                   | 74.0           | -37.2       | Peak     | Vertical     |
|      | 4842.0          | 31.2                 | 5.9         | 37.1                   | 74.0           | -36.9       | Peak     | Vertical     |
| *    | 6168.0          | 31.4                 | 8.3         | 39.7                   | 68.2           | -28.5       | Peak     | Vertical     |
| *    | 6950.0          | 33.0                 | 10.5        | 43.5                   | 68.2           | -24.7       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | Messiah Li                                                                                                                                                                        | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode:    | 802.11ac-VHT80                                                                                                                                                                    | Test Channel:     | 42         |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3779.5          | 34.0                 | 2.8         | 36.8                   | 74.0           | -37.2       | Peak     | Horizontal   |
|      | 4621.0          | 32.2                 | 5.2         | 37.4                   | 74.0           | -36.6       | Peak     | Horizontal   |
| *    | 5216.0          | 31.3                 | 6.5         | 37.8                   | 68.2           | -30.4       | Peak     | Horizontal   |
| *    | 5938.5          | 31.6                 | 7.7         | 39.3                   | 68.2           | -28.9       | Peak     | Horizontal   |
|      | 3830.5          | 33.5                 | 2.9         | 36.4                   | 74.0           | -37.6       | Peak     | Vertical     |
|      | 4621.0          | 32.6                 | 5.2         | 37.8                   | 74.0           | -36.2       | Peak     | Vertical     |
| *    | 5964.0          | 32.3                 | 7.6         | 39.9                   | 68.2           | -28.3       | Peak     | Vertical     |
| *    | 6950.0          | 34.6                 | 10.5        | 45.1                   | 68.2           | -23.1       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                   |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | Notebook                                                                                                                                                                          | Temperature       | 26°C       |
| Test Engineer | Messiah Li                                                                                                                                                                        | Relative Humidity | 57 %       |
| Test Site     | AC1                                                                                                                                                                               | Test Date         | 2020/02/29 |
| Test Mode:    | 802.11ac-VHT80                                                                                                                                                                    | Test Channel:     | 155        |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                   |            |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3898.5          | 33.5                 | 3.1         | 36.6                   | 74.0           | -37.4       | Peak     | Horizontal   |
|      | 4723.0          | 30.5                 | 5.5         | 36.0                   | 74.0           | -38.0       | Peak     | Horizontal   |
| *    | 5811.0          | 29.5                 | 7.5         | 37.0                   | 68.2           | -31.2       | Peak     | Horizontal   |
| *    | 7859.5          | 33.0                 | 12.0        | 45.0                   | 68.2           | -23.2       | Peak     | Horizontal   |
|      | 3796.5          | 34.1                 | 2.7         | 36.8                   | 74.0           | -37.2       | Peak     | Vertical     |
|      | 4289.5          | 32.1                 | 4.0         | 36.1                   | 74.0           | -37.9       | Peak     | Vertical     |
| *    | 5292.5          | 31.2                 | 6.5         | 37.7                   | 68.2           | -30.5       | Peak     | Vertical     |
| *    | 6270.0          | 29.2                 | 8.5         | 37.7                   | 68.2           | -30.5       | Peak     | Vertical     |

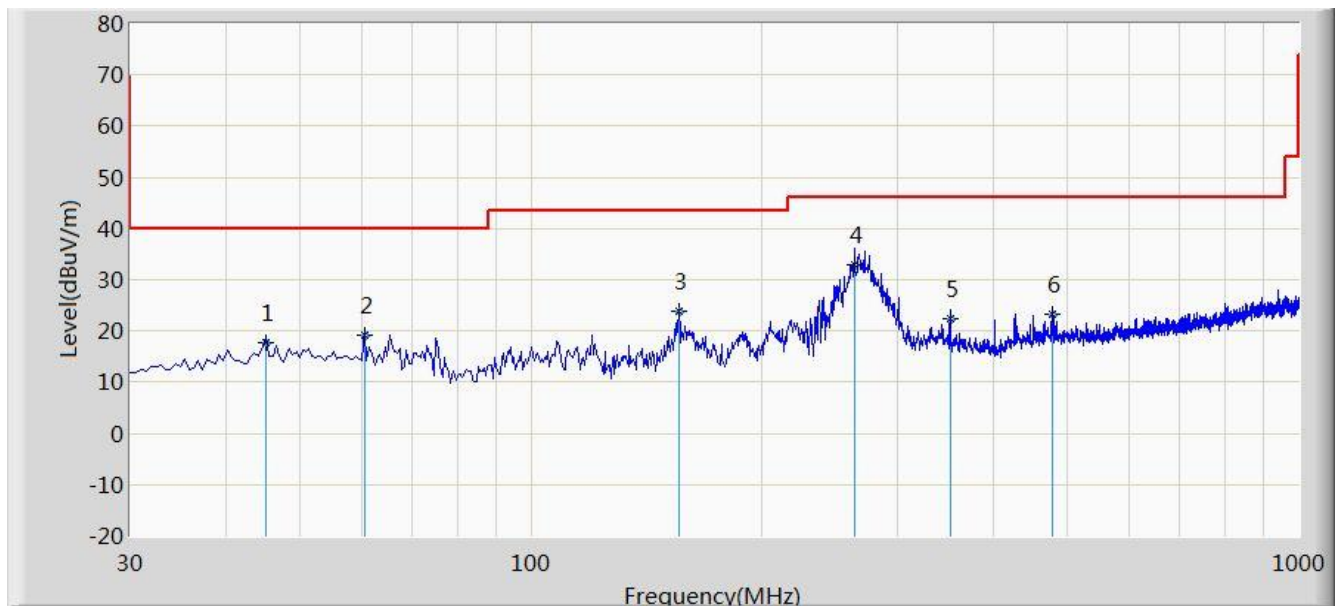
Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

### The Worst Case of Radiated Emission below 1GHz:

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2020/02/03 - 18:59 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: David Lv       |
| Probe: VULB 9168 _20-2000MHz                      | Polarity: Horizontal     |
| EUT: Notebook                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at channel 5180MHz |                          |



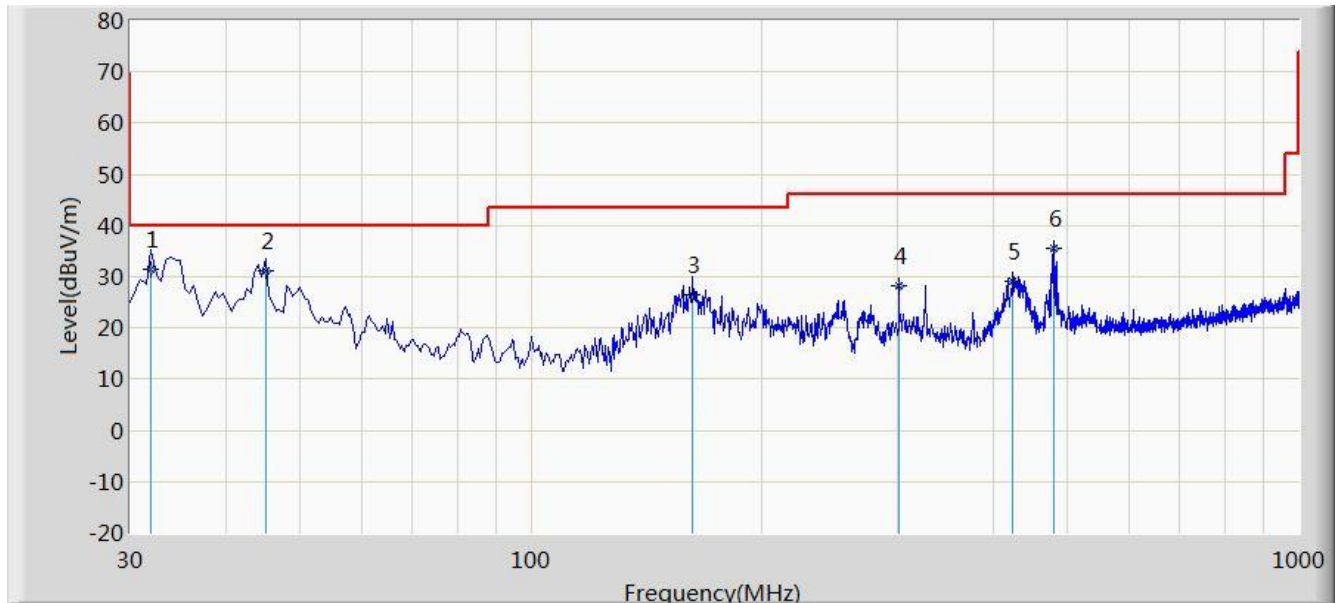
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 45.035          | 17.746                 | 3.230                | -22.254     | 40.000         | 14.516      | QP   |
| 2  |      |      | 60.555          | 19.164                 | 5.960                | -20.836     | 40.000         | 13.205      | QP   |
| 3  |      |      | 155.615         | 23.788                 | 14.340               | -19.712     | 43.500         | 9.448       | QP   |
| 4  |      | *    | 263.770         | 32.833                 | 18.540               | -13.167     | 46.000         | 14.292      | QP   |
| 5  |      |      | 351.070         | 22.466                 | 5.650                | -23.534     | 46.000         | 16.816      | QP   |
| 6  |      |      | 477.170         | 23.309                 | 4.540                | -22.691     | 46.000         | 18.769      | QP   |

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report.

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2020/02/03 - 19:06 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: David Lv       |
| Probe: VULB 9168 _20-2000MHz                      | Polarity: Vertical       |
| EUT: Notebook                                     | Engineer: David Lv       |
| Test Mode: Transmit by 802.11a at channel 5180MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 31.940          | 31.335                 | 20.230               | -8.665      | 40.000         | 11.105      | QP   |
| 2  |      |      | 45.035          | 31.046                 | 16.530               | -8.954      | 40.000         | 14.516      | QP   |
| 3  |      |      | 162.405         | 26.562                 | 16.760               | -16.938     | 43.500         | 9.802       | QP   |
| 4  |      |      | 301.115         | 28.110                 | 13.230               | -17.890     | 46.000         | 14.879      | QP   |
| 5  |      |      | 423.820         | 29.173                 | 11.320               | -16.827     | 46.000         | 17.854      | QP   |
| 6  |      |      | 480.080         | 35.664                 | 16.760               | -10.336     | 46.000         | 18.905      | QP   |

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report.

## 7.8. Radiated Restricted Band Edge Measurement

### 7.8.1. 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         |
| <sup>1</sup> 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        | 8.025 - 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 - 156.52525 | 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        | ( <sup>2</sup> )   |
| 13.36 - 13.41              | --                    | --                 | --                 |

#### **For 15.407(b) requirement:**

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For 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.

As specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit. All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 |                          |                               |
|----------------------------------------|--------------------------|-------------------------------|
| Frequency<br>[MHz]                     | Field Strength<br>[uV/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                             |

#### 7.8.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

### **7.8.3. Test Setting**

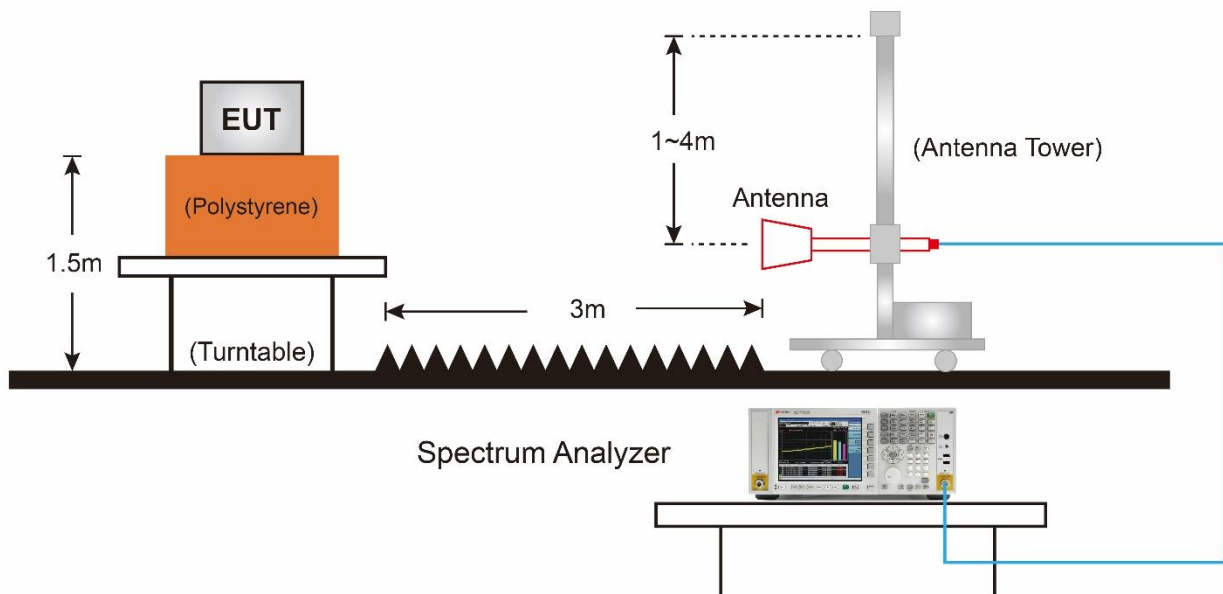
#### **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

#### **Average Measurements above 1GHz (Method VB)**

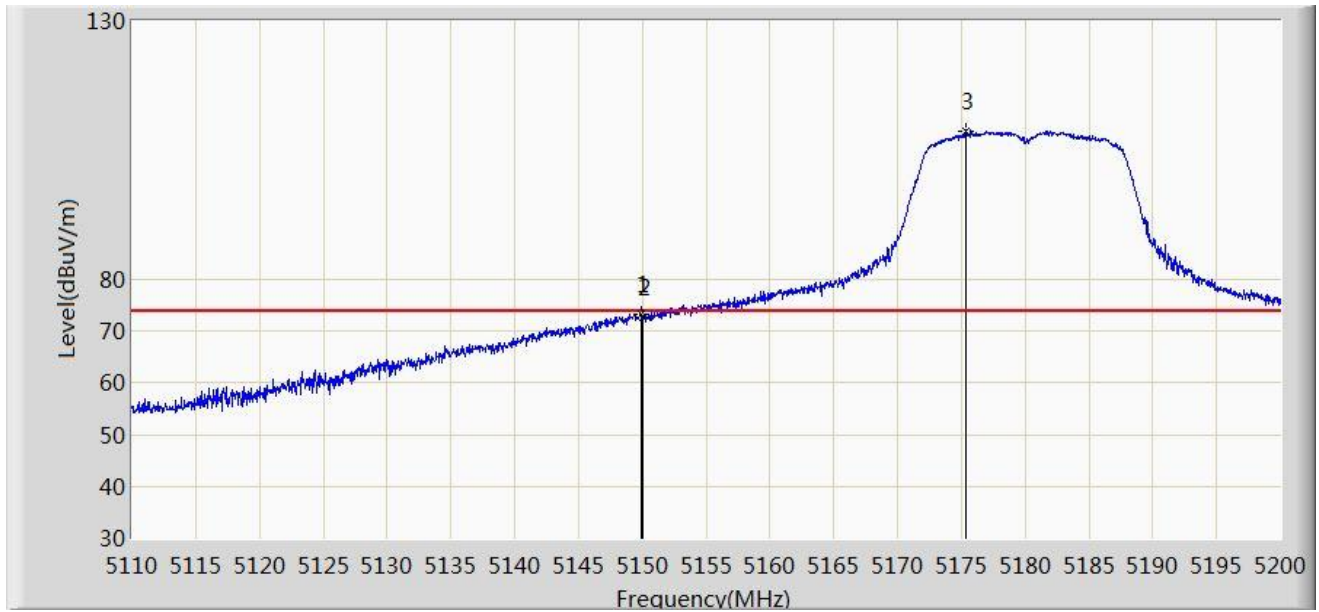
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set  $VBW \leq RBW/100$  (i.e., 10 kHz) but not less than 10 Hz. If the EUT duty cycle is  $< 98\%$ , set  $VBW \geq 1/T$ .
4. Detector = Peak
5. Sweep time = auto
6. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of  $1/x$ , where  $x$  is the duty cycle.

#### 7.8.4. Test Setup



### 7.8.5.Test Result

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2020/02/03 - 15:18 |
| Limit: FCC_Part15.209_RSE (3m)                    | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                      | Polarity: Horizontal     |
| EUT: Notebook                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5180MHz |                          |

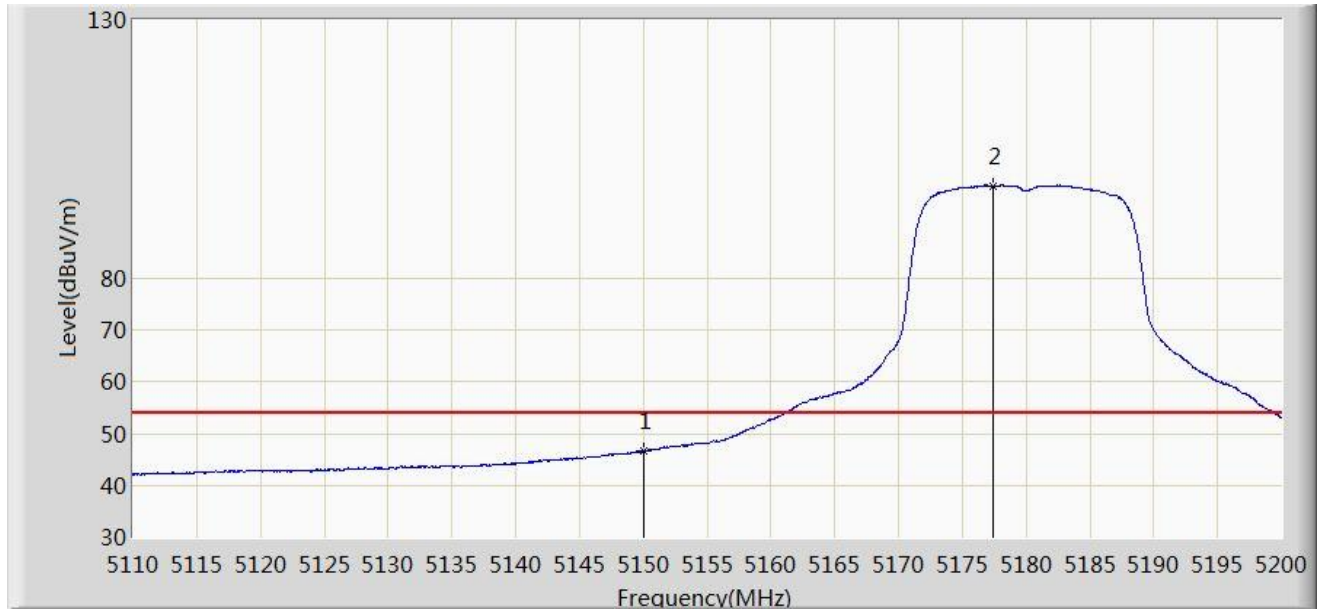


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5149.960        | 73.336                 | 68.894               | -0.664      | 74.000         | 4.442       | PK   |
| 2  |      |      | 5150.000        | 72.585                 | 68.143               | -1.415      | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5175.340        | 108.739                | 104.214              | N/A         | N/A            | 4.525       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2020/02/03 - 15:24 |
| Limit: FCC_Part15.209_RSE (3m)                    | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                      | Polarity: Horizontal     |
| EUT: Notebook                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5180MHz |                          |

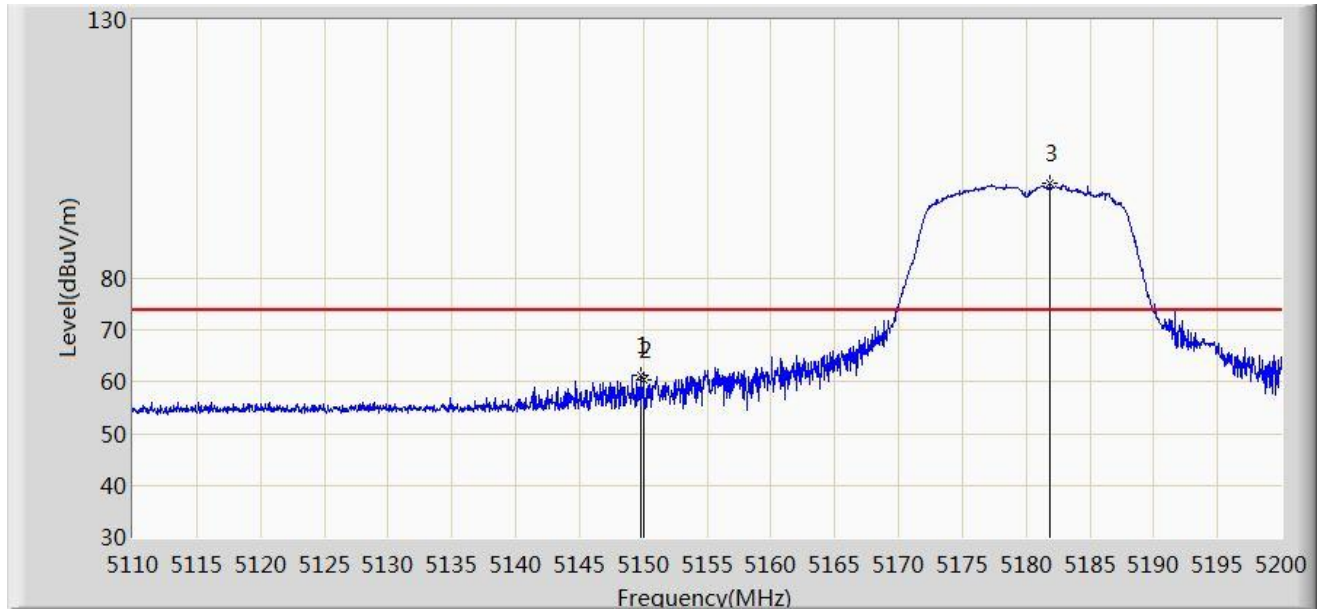


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 46.686                 | 42.244               | -7.314      | 54.000         | 4.442       | AV   |
| 2  |      | *    | 5177.410        | 97.963                 | 93.456               | N/A         | N/A            | 4.507       | AV   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2020/02/03 - 15:32 |
| Limit: FCC_Part15.209_RSE (3m)                    | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                      | Polarity: Vertical       |
| EUT: Notebook                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5180MHz |                          |

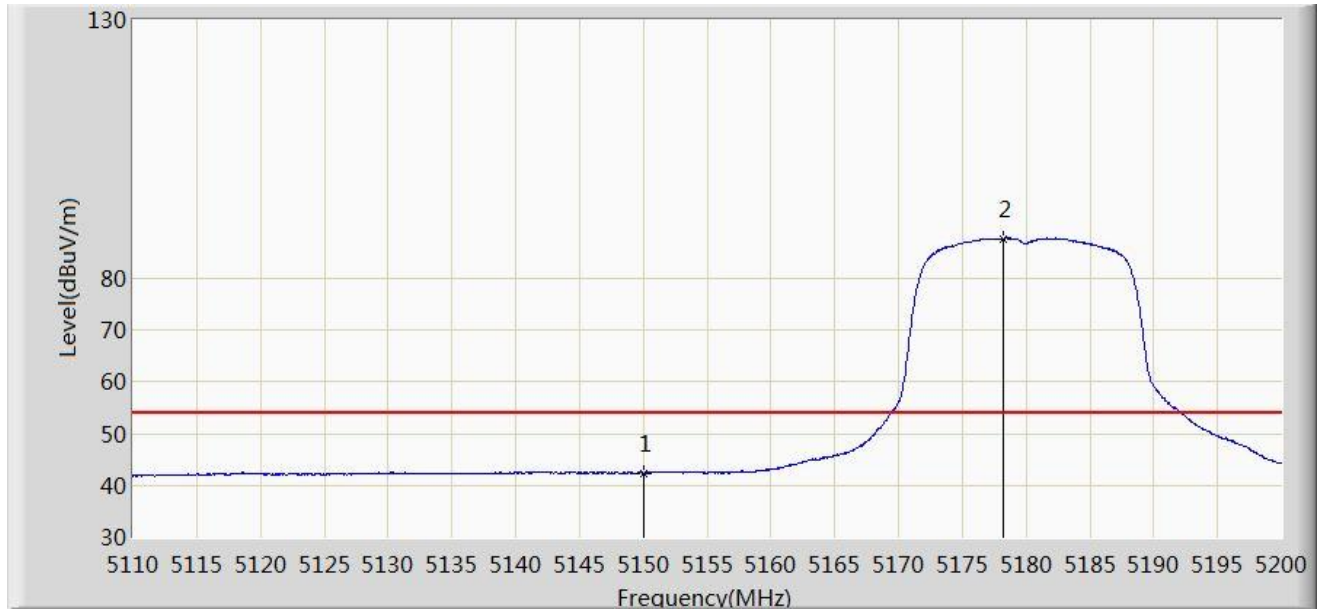


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5149.780        | 61.214                 | 56.774               | -12.786     | 74.000         | 4.440       | PK   |
| 2  |      |      | 5150.000        | 60.456                 | 56.014               | -13.544     | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5181.910        | 98.335                 | 93.866               | N/A         | N/A            | 4.469       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2020/02/03 - 15:35 |
| Limit: FCC_Part15.209_RSE (3m)                    | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                      | Polarity: Vertical       |
| EUT: Notebook                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5180MHz |                          |

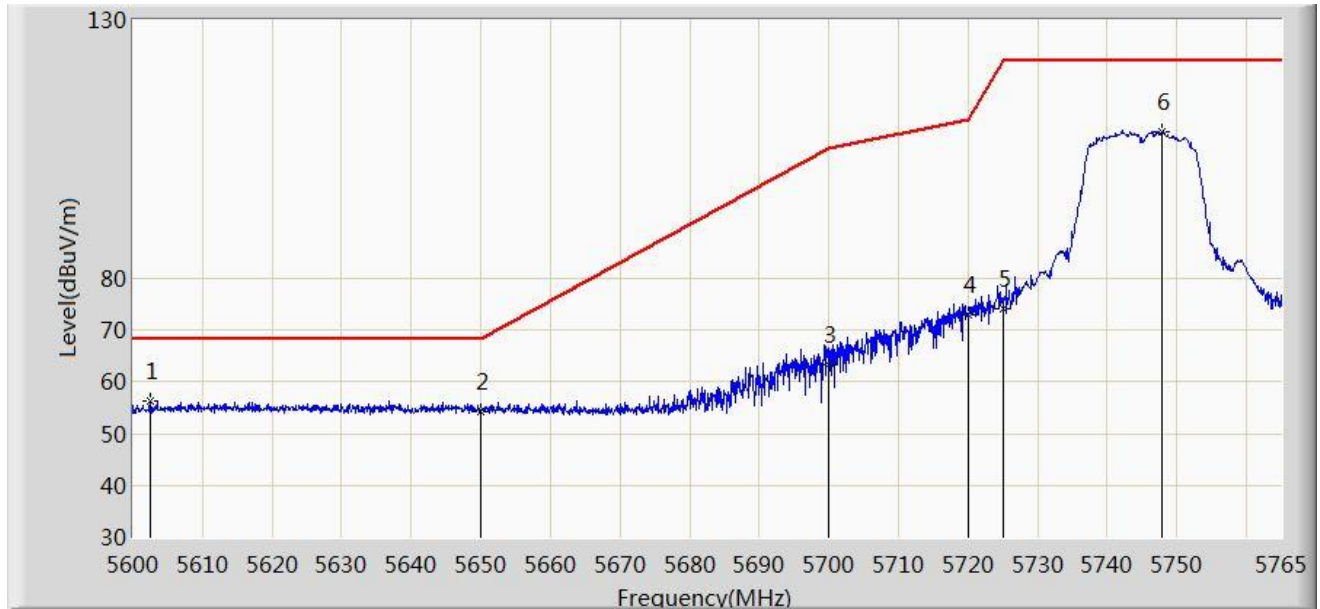


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 42.412                 | 37.970               | -11.588     | 54.000         | 4.442       | AV   |
| 2  |      | *    | 5178.265        | 87.718                 | 83.218               | N/A         | N/A            | 4.499       | AV   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2020/02/03 - 15:37 |
| Limit: FCC_Part15.407_RSE (3m)                    | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                      | Polarity: Horizontal     |
| EUT: Notebook                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5745MHz |                          |

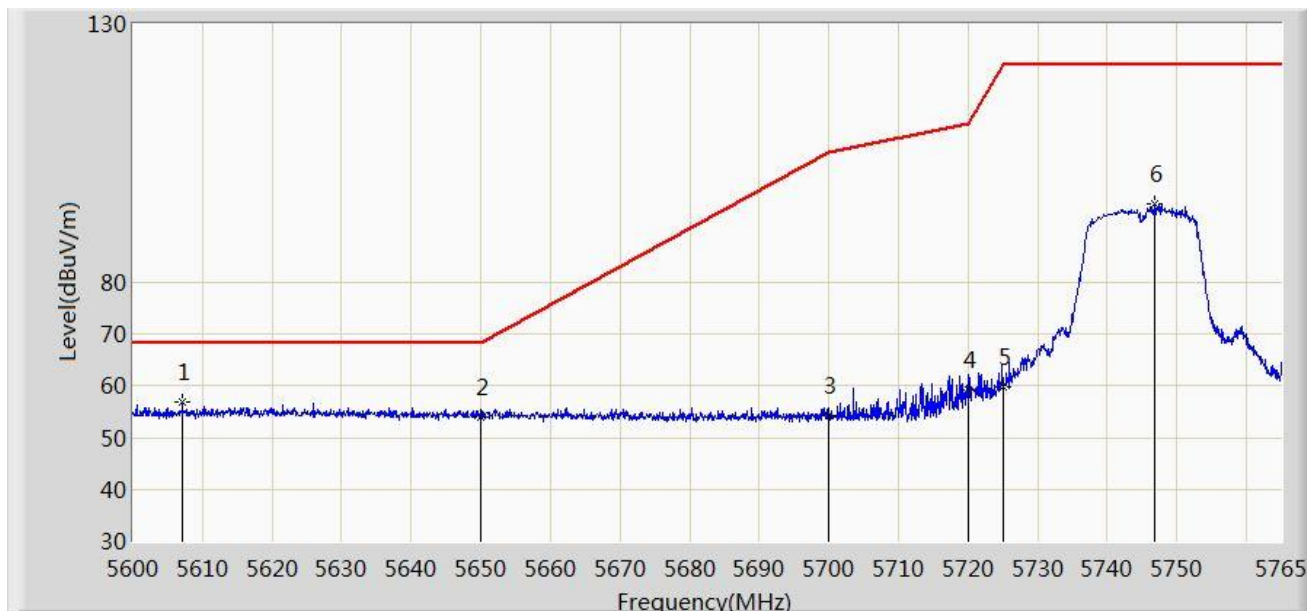


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5602.475        | 56.258                 | 51.375               | -11.942     | 68.200         | 4.883       | PK   |
| 2  |      |      | 5650.000        | 54.391                 | 49.055               | -13.809     | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 63.221                 | 57.903               | -41.979     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 72.989                 | 67.515               | -37.811     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 74.291                 | 68.813               | -47.909     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5747.840        | 108.433                | 102.770              | N/A         | N/A            | 5.663       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2020/02/03 - 15:39 |
| Limit: FCC_Part15.407_RSE (3m)                    | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                      | Polarity: Vertical       |
| EUT: Notebook                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5745MHz |                          |

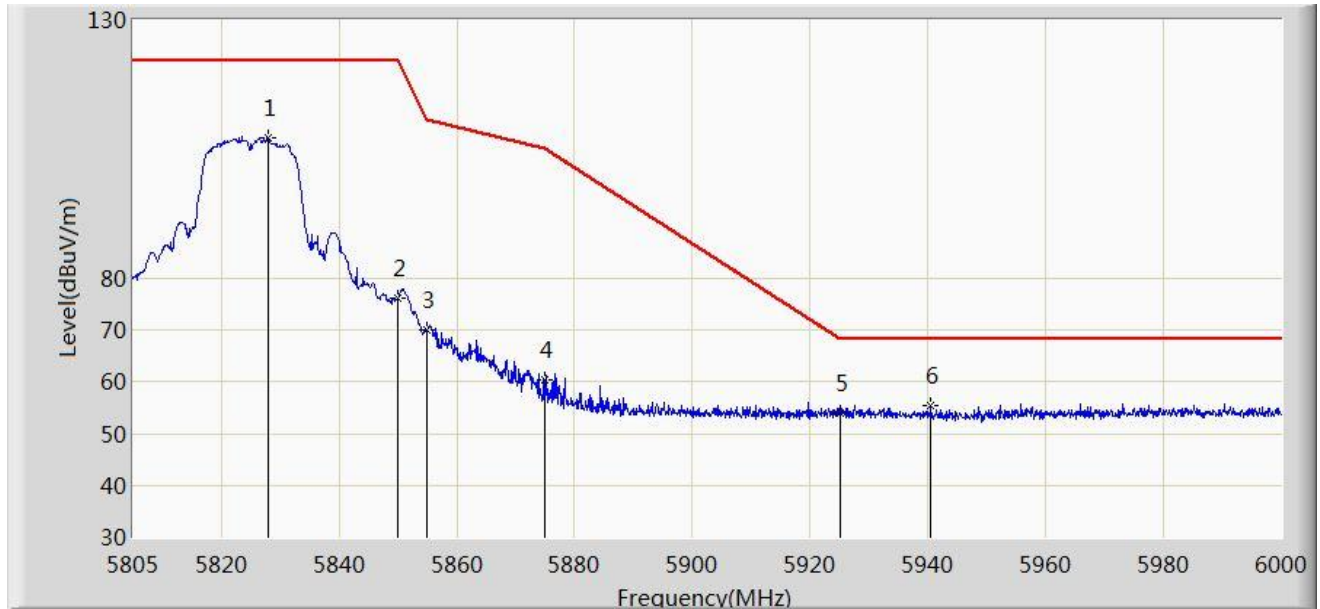


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5607.095        | 56.783                 | 51.849               | -11.417     | 68.200         | 4.935       | PK   |
| 2  |      |      | 5650.000        | 54.021                 | 48.685               | -14.179     | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 54.189                 | 48.871               | -51.011     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 59.252                 | 53.778               | -51.548     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 59.925                 | 54.447               | -62.275     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5746.768        | 95.195                 | 89.553               | N/A         | N/A            | 5.642       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2020/02/03 - 15:41 |
| Limit: FCC_Part15.407_RSE (3m)                    | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                      | Polarity: Horizontal     |
| EUT: Notebook                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5825MHz |                          |

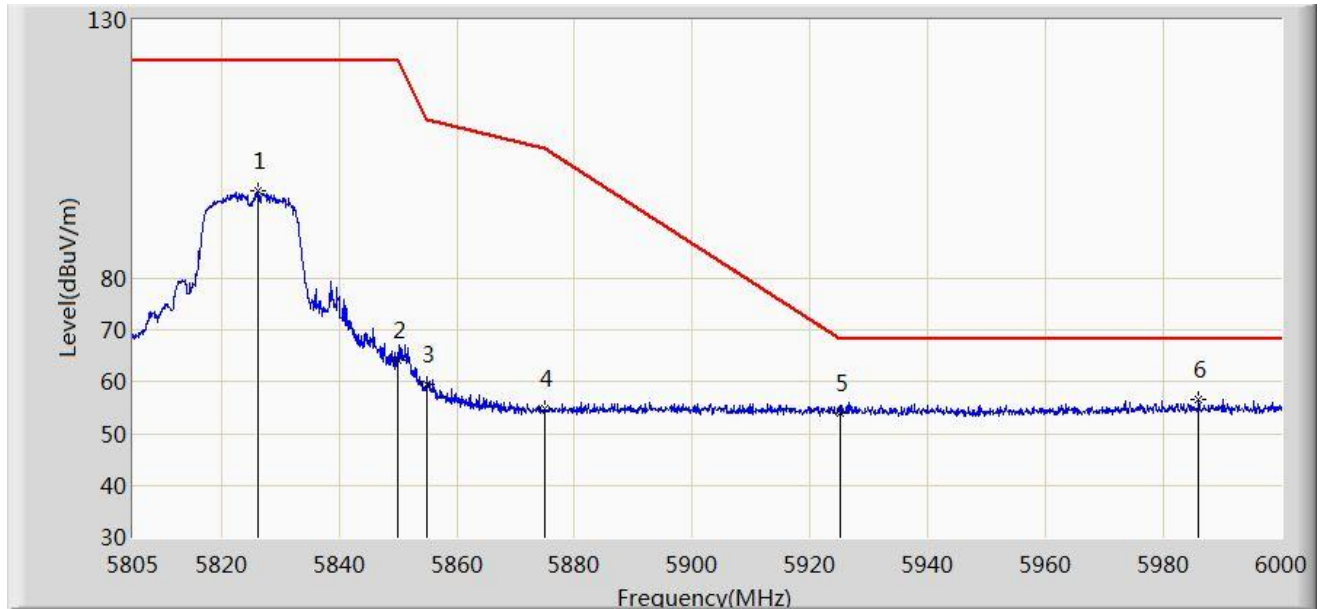


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5827.913        | 107.228                | 101.484              | N/A         | N/A            | 5.744       | PK   |
| 2  |      |      | 5850.000        | 76.301                 | 70.332               | -45.899     | 122.200        | 5.968       | PK   |
| 3  |      |      | 5855.000        | 70.038                 | 64.063               | -40.762     | 110.800        | 5.975       | PK   |
| 4  |      |      | 5875.000        | 60.337                 | 54.324               | -44.863     | 105.200        | 6.013       | PK   |
| 5  |      |      | 5925.000        | 54.017                 | 47.882               | -14.183     | 68.200         | 6.136       | PK   |
| 6  |      | *    | 5940.525        | 55.429                 | 49.328               | -12.771     | 68.200         | 6.101       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2020/02/03 - 15:43 |
| Limit: FCC_Part15.407_RSE (3m)                    | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                      | Polarity: Vertical       |
| EUT: Notebook                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5825MHz |                          |

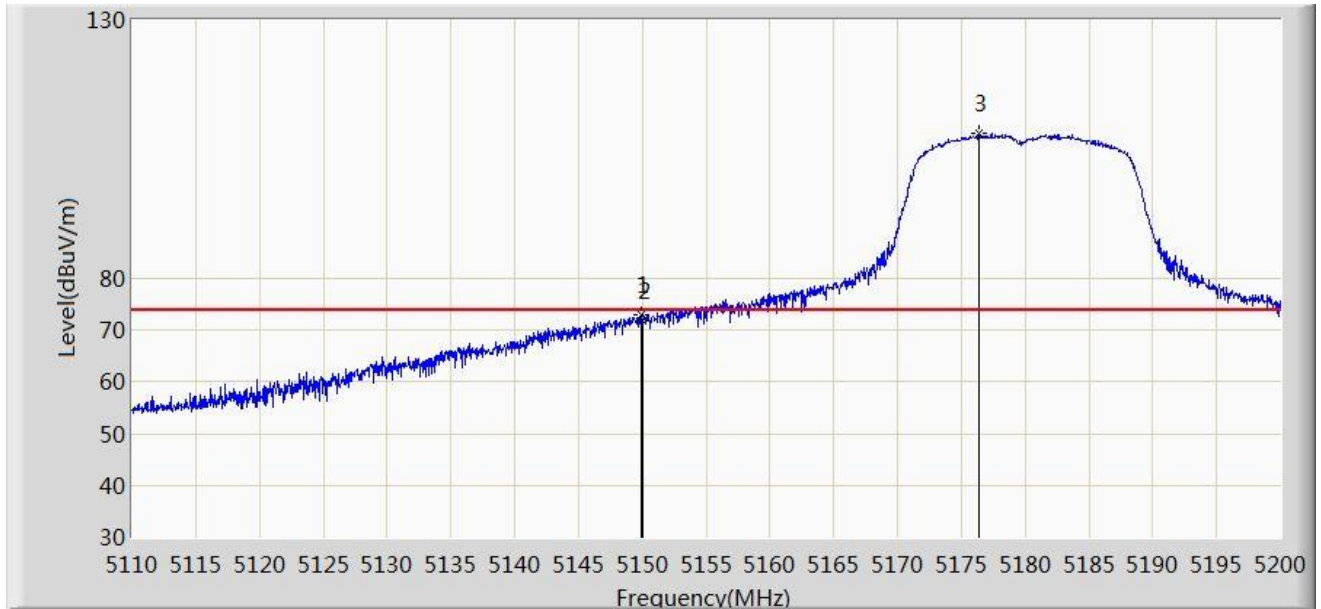


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5826.255        | 96.895                 | 91.138               | N/A         | N/A            | 5.757       | PK   |
| 2  |      |      | 5850.000        | 64.238                 | 58.269               | -57.962     | 122.200        | 5.968       | PK   |
| 3  |      |      | 5855.000        | 59.503                 | 53.528               | -51.297     | 110.800        | 5.975       | PK   |
| 4  |      |      | 5875.000        | 54.881                 | 48.868               | -50.319     | 105.200        | 6.013       | PK   |
| 5  |      |      | 5925.000        | 54.066                 | 47.931               | -14.134     | 68.200         | 6.136       | PK   |
| 6  |      | *    | 5985.960        | 56.632                 | 50.176               | -11.568     | 68.200         | 6.456       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 15:45 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Horizontal     |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz |                          |

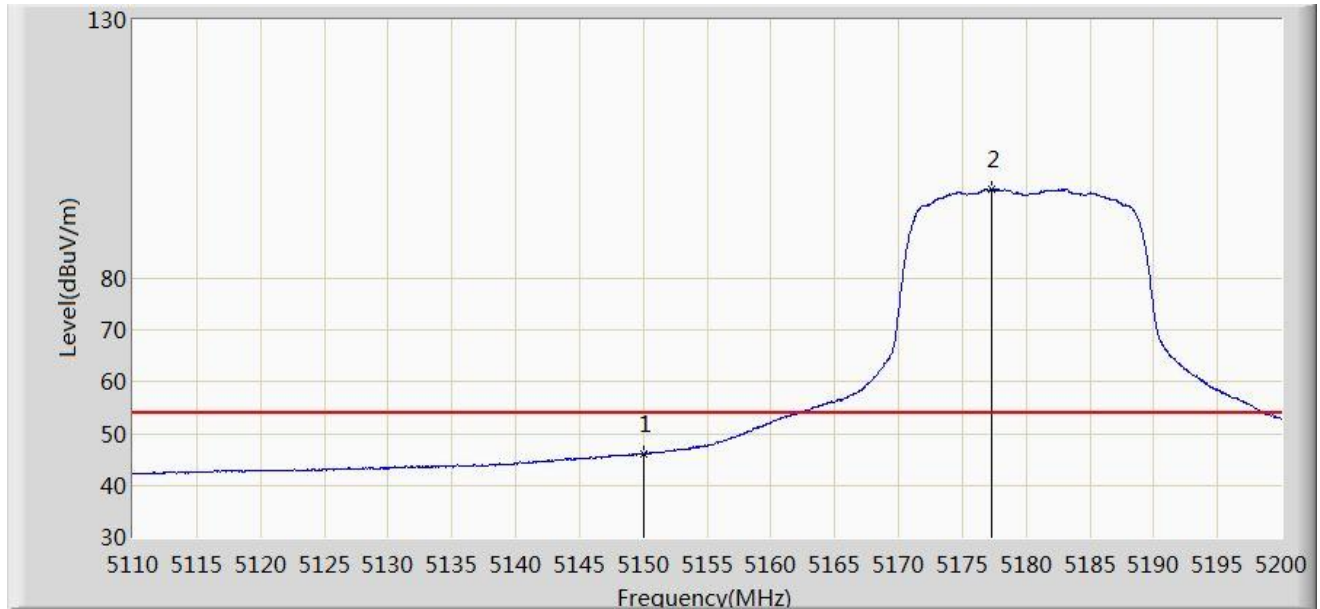


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5149.915        | 73.056                 | 68.615               | -0.944      | 74.000         | 4.441       | PK   |
| 2  |      |      | 5150.000        | 71.941                 | 67.499               | -2.059      | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5176.420        | 108.107                | 103.592              | N/A         | N/A            | 4.516       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 15:47 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Horizontal     |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz |                          |

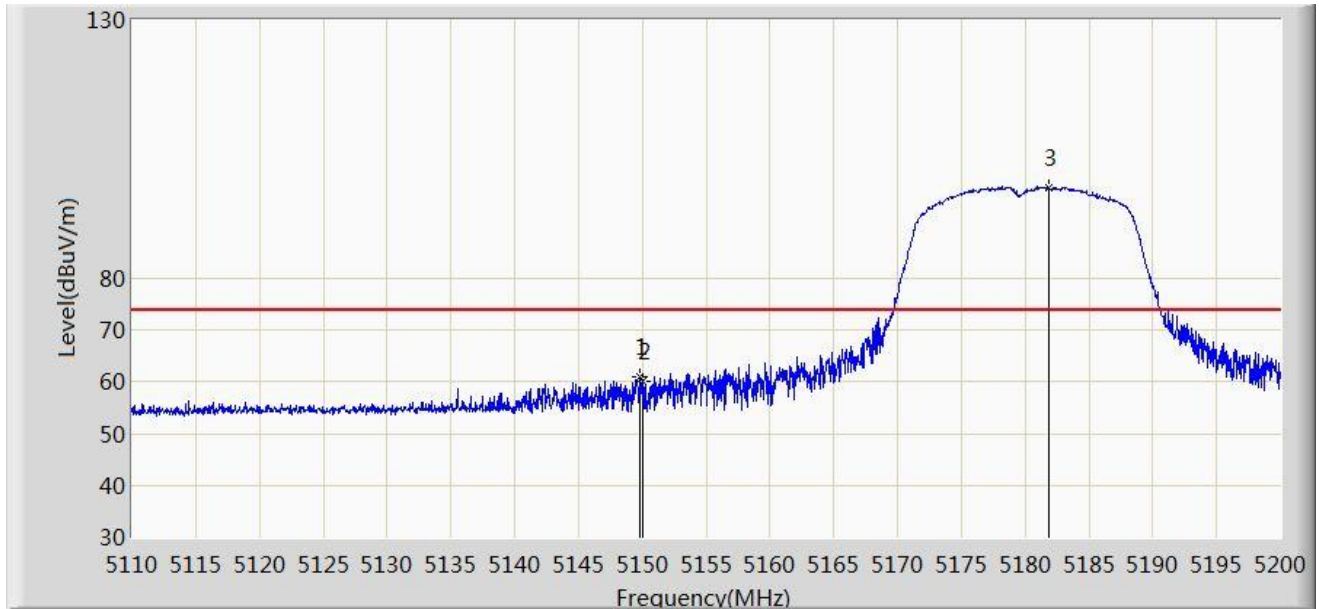


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 46.156                 | 41.714               | -7.844      | 54.000         | 4.442       | AV   |
| 2  |      | *    | 5177.275        | 97.247                 | 92.739               | N/A         | N/A            | 4.509       | AV   |

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 15:48 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Vertical       |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz |                          |

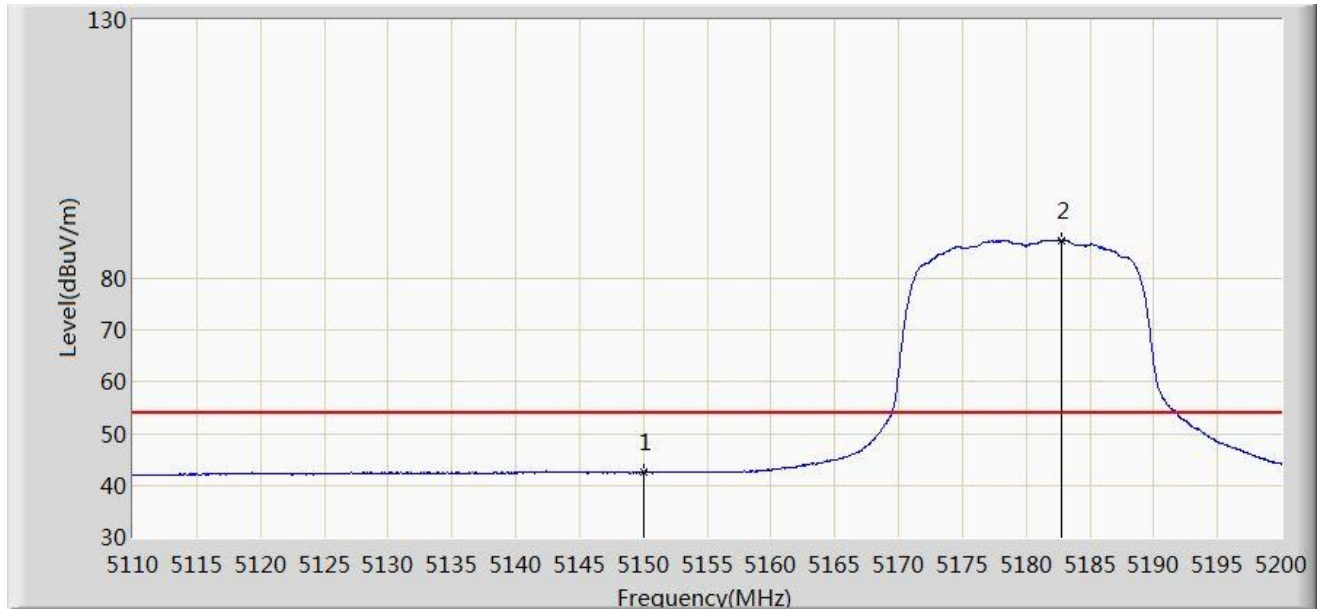


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5149.780        | 60.917                 | 56.477               | -13.083     | 74.000         | 4.440       | PK   |
| 2  |      |      | 5150.000        | 60.054                 | 55.612               | -13.946     | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5181.820        | 97.633                 | 93.164               | N/A         | N/A            | 4.469       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 15:49 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz |                          |

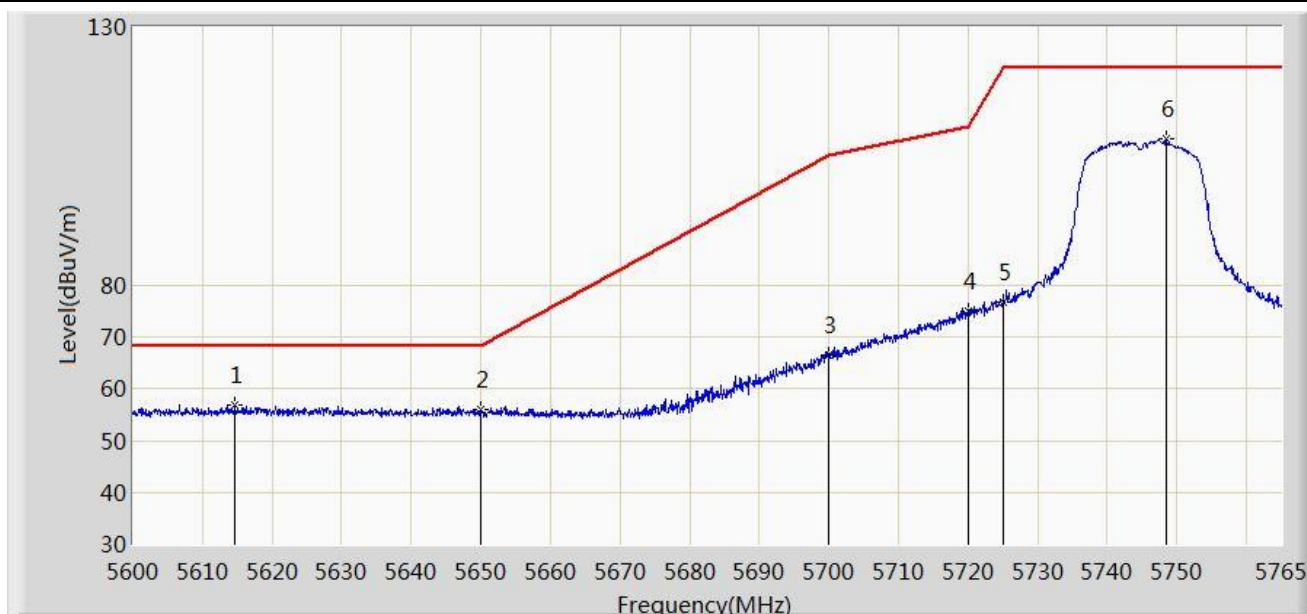


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 42.560                 | 38.118               | -11.440     | 54.000         | 4.442       | AV   |
| 2  |      | *    | 5182.720        | 87.324                 | 82.865               | N/A         | N/A            | 4.459       | AV   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 15:50 |
| Limit: FCC_Part15.407_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Horizontal     |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz |                          |

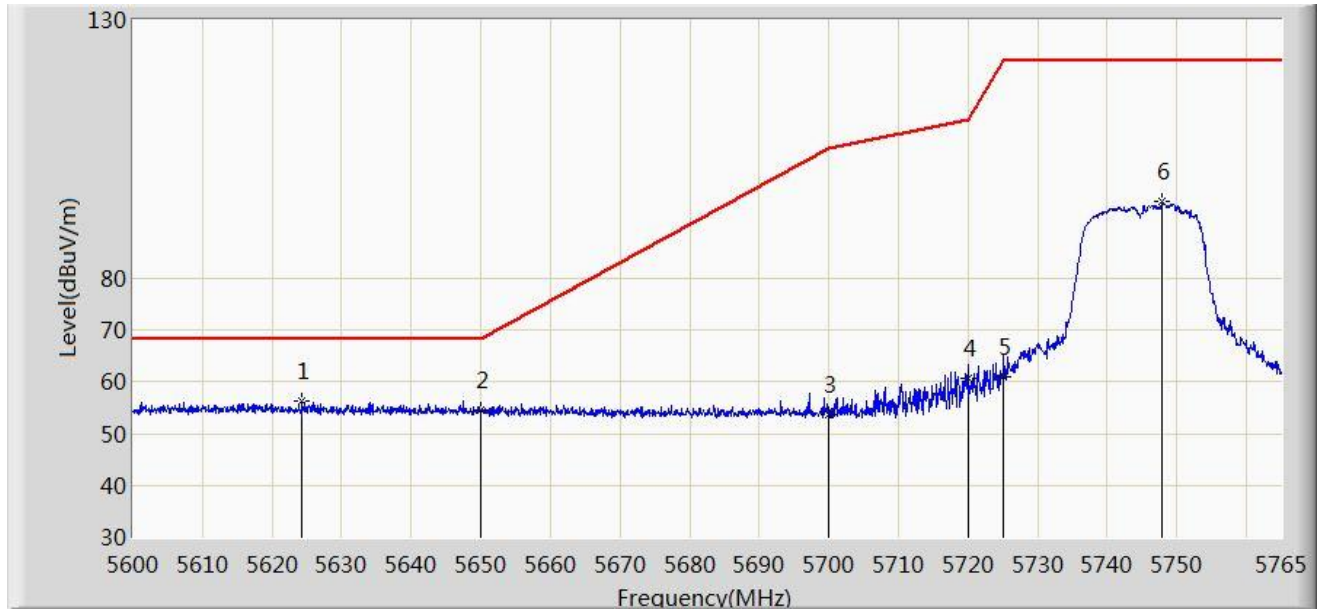


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5614.685        | 56.867                 | 51.814               | -11.333     | 68.200         | 5.052       | PK   |
| 2  |      |      | 5650.000        | 56.027                 | 50.691               | -12.173     | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 66.610                 | 61.292               | -38.590     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 75.110                 | 69.636               | -35.690     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 76.833                 | 71.355               | -45.367     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5748.583        | 108.244                | 102.566              | N/A         | N/A            | 5.678       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 15:59 |
| Limit: FCC_Part15.407_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Vertical       |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz |                          |

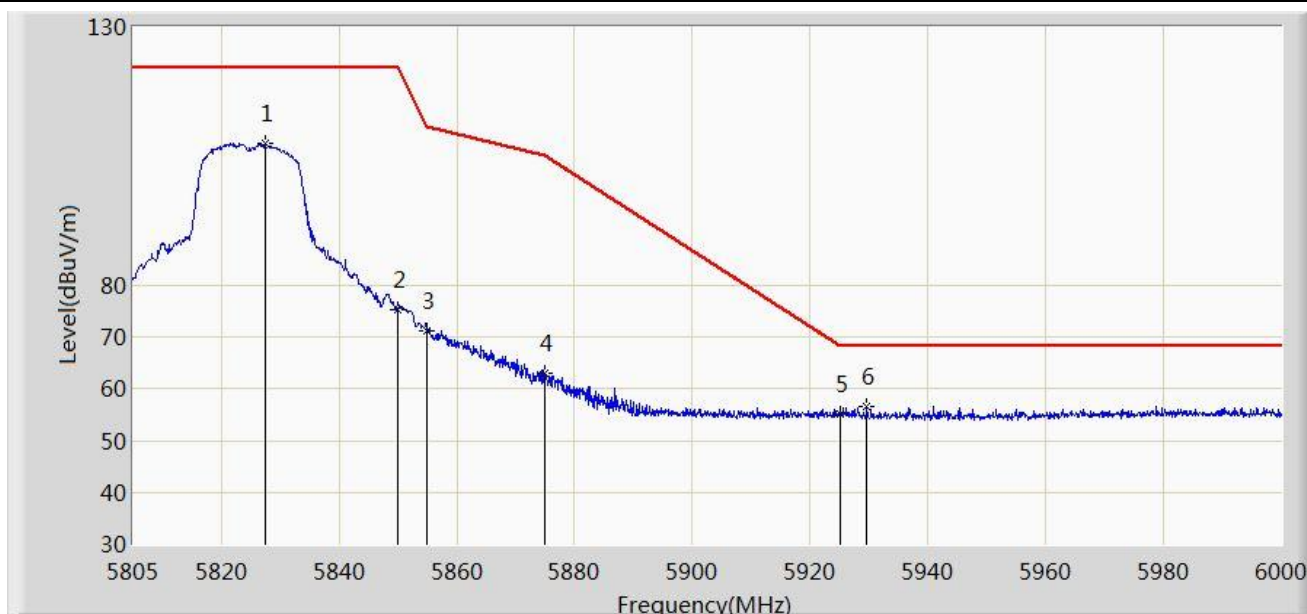


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5624.255        | 56.268                 | 51.071               | -11.932     | 68.200         | 5.197       | PK   |
| 2  |      |      | 5650.000        | 54.431                 | 49.095               | -13.769     | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 53.675                 | 48.357               | -51.525     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 60.679                 | 55.205               | -50.121     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 61.017                 | 55.539               | -61.183     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5747.757        | 94.820                 | 89.159               | N/A         | N/A            | 5.661       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:01 |
| Limit: FCC_Part15.407_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Horizontal     |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5825MHz |                          |

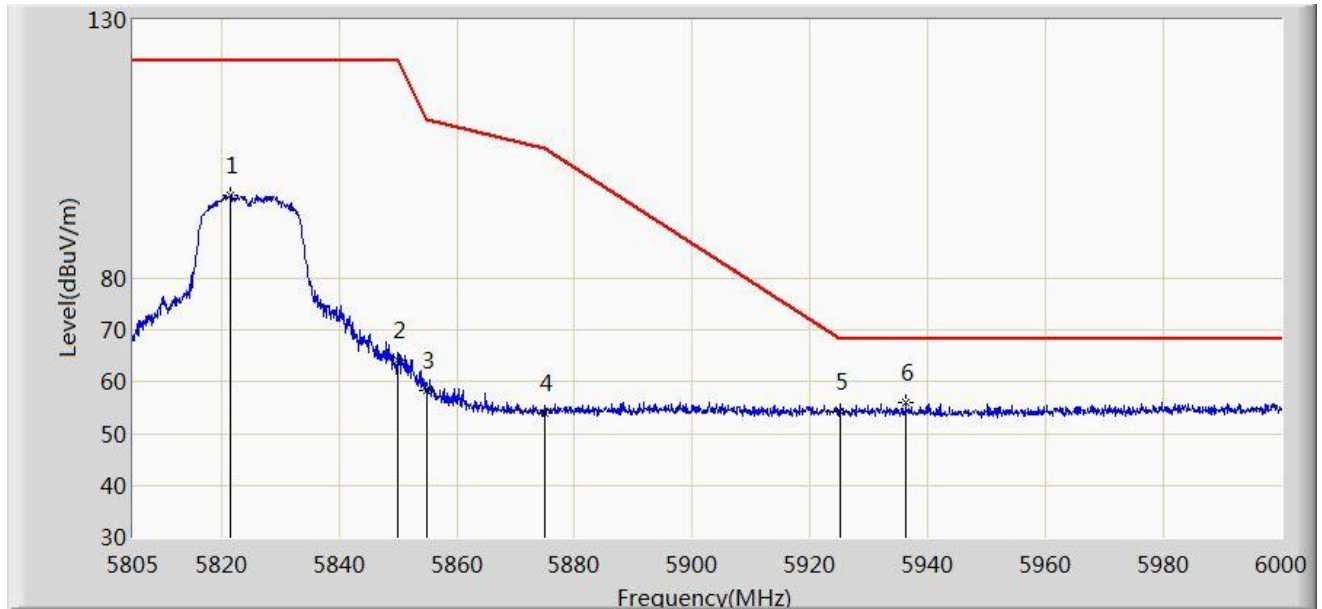


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5827.425        | 107.503                | 101.755              | N/A         | N/A            | 5.748       | PK   |
| 2  |      |      | 5850.000        | 75.408                 | 69.439               | -46.792     | 122.200        | 5.968       | PK   |
| 3  |      |      | 5855.000        | 71.194                 | 65.219               | -39.606     | 110.800        | 5.975       | PK   |
| 4  |      |      | 5875.000        | 63.025                 | 57.012               | -42.175     | 105.200        | 6.013       | PK   |
| 5  |      |      | 5925.000        | 55.033                 | 48.898               | -13.167     | 68.200         | 6.136       | PK   |
| 6  |      | *    | 5929.605        | 56.643                 | 50.486               | -11.557     | 68.200         | 6.156       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:06 |
| Limit: FCC_Part15.407_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5825MHz |                          |

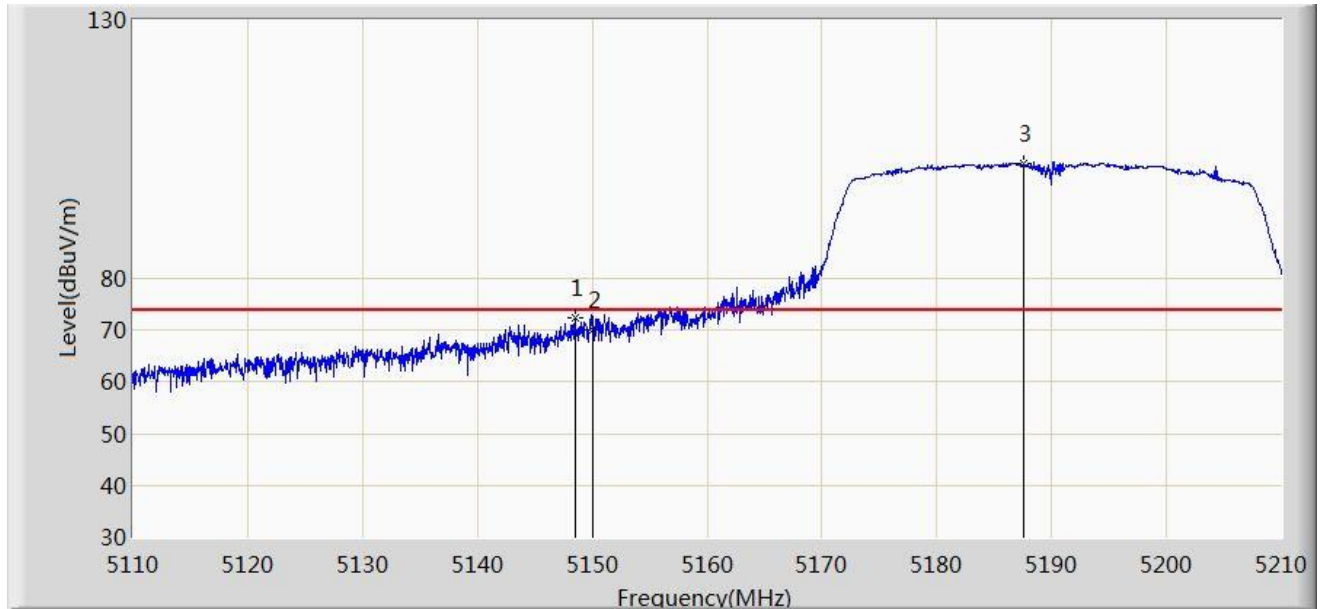


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5821.672        | 96.222                 | 96.222               | N/A         | N/A            | 0.000       | PK   |
| 2  |      |      | 5850.000        | 64.231                 | 64.231               | -57.969     | 122.200        | 0.000       | PK   |
| 3  |      |      | 5855.000        | 58.470                 | 58.470               | -52.330     | 110.800        | 0.000       | PK   |
| 4  |      |      | 5875.000        | 53.920                 | 53.920               | -51.280     | 105.200        | 0.000       | PK   |
| 5  |      |      | 5925.000        | 54.199                 | 54.199               | -14.001     | 68.200         | 0.000       | PK   |
| 6  |      | *    | 5936.235        | 56.024                 | 56.024               | -12.176     | 68.200         | 0.000       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:11 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Horizontal     |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz |                          |

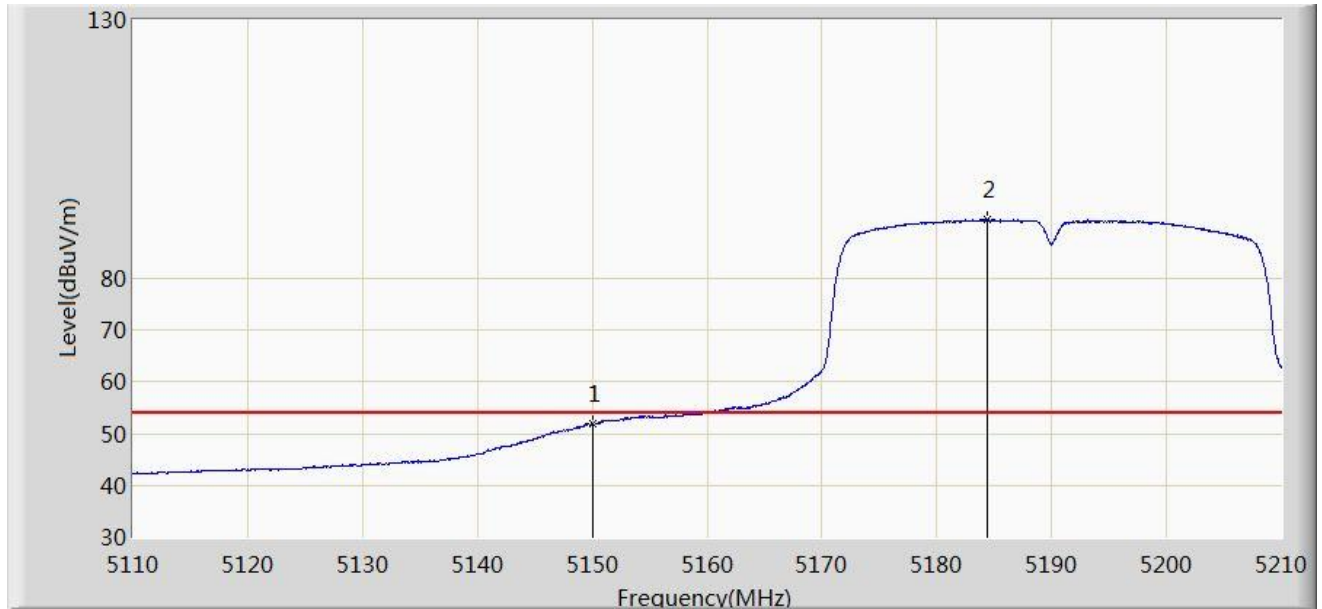


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5148.500        | 72.524                 | 68.099               | -1.476      | 74.000         | 4.425       | PK   |
| 2  |      |      | 5150.000        | 70.166                 | 65.724               | -3.834      | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5187.600        | 102.255                | 97.853               | N/A         | N/A            | 4.402       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:13 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Horizontal     |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz |                          |

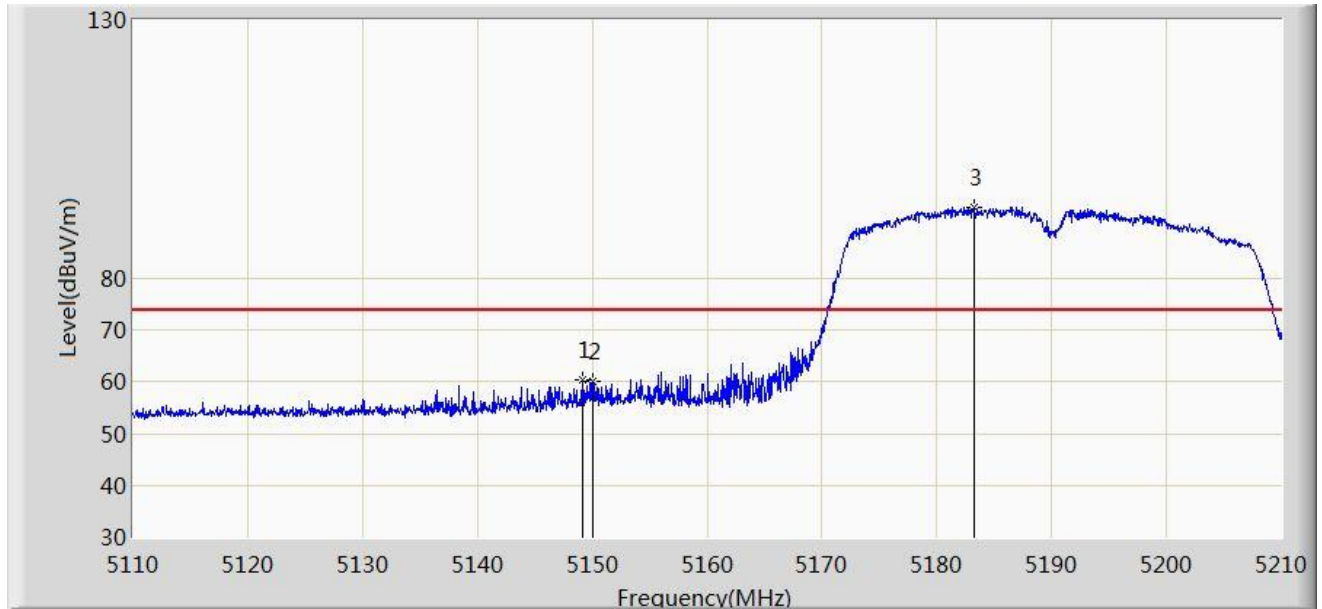


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 51.971                 | 47.529               | -2.029      | 54.000         | 4.442       | AV   |
| 2  |      | *    | 5184.350        | 91.339                 | 86.899               | N/A         | N/A            | 4.440       | AV   |

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:14 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Vertical       |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz |                          |

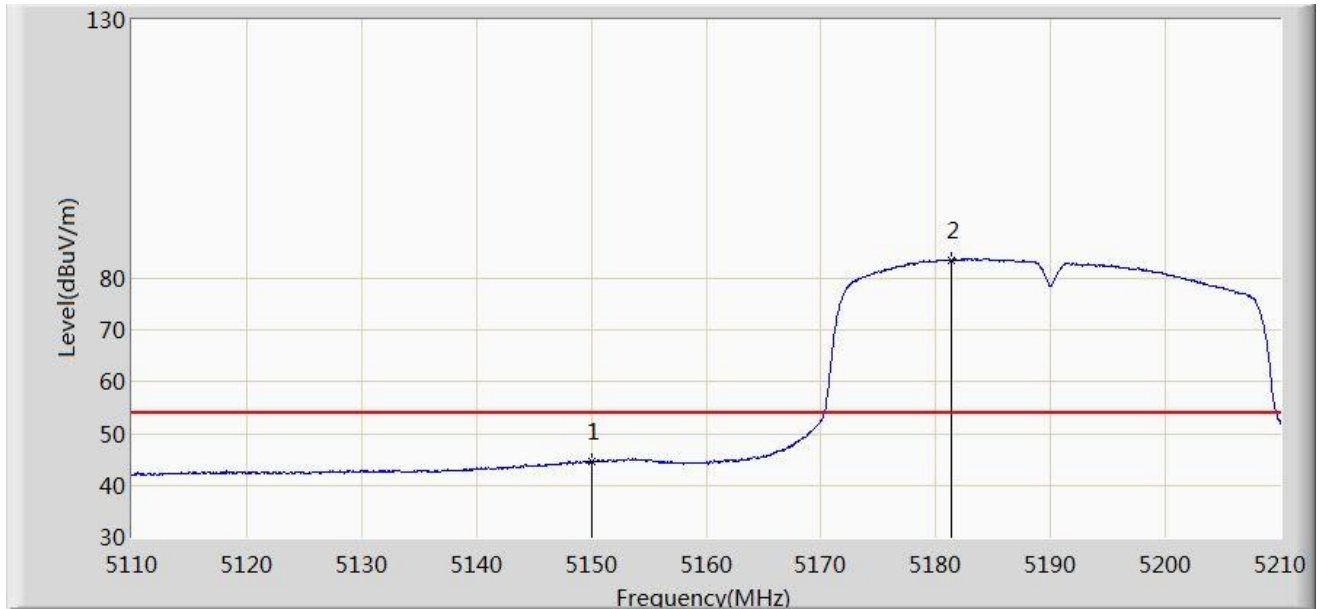


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5149.200        | 60.385                 | 55.952               | -13.615     | 74.000         | 4.433       | PK   |
| 2  |      |      | 5150.000        | 60.102                 | 55.660               | -13.898     | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5183.200        | 93.779                 | 89.325               | N/A         | N/A            | 4.454       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:15 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Vertical       |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz |                          |

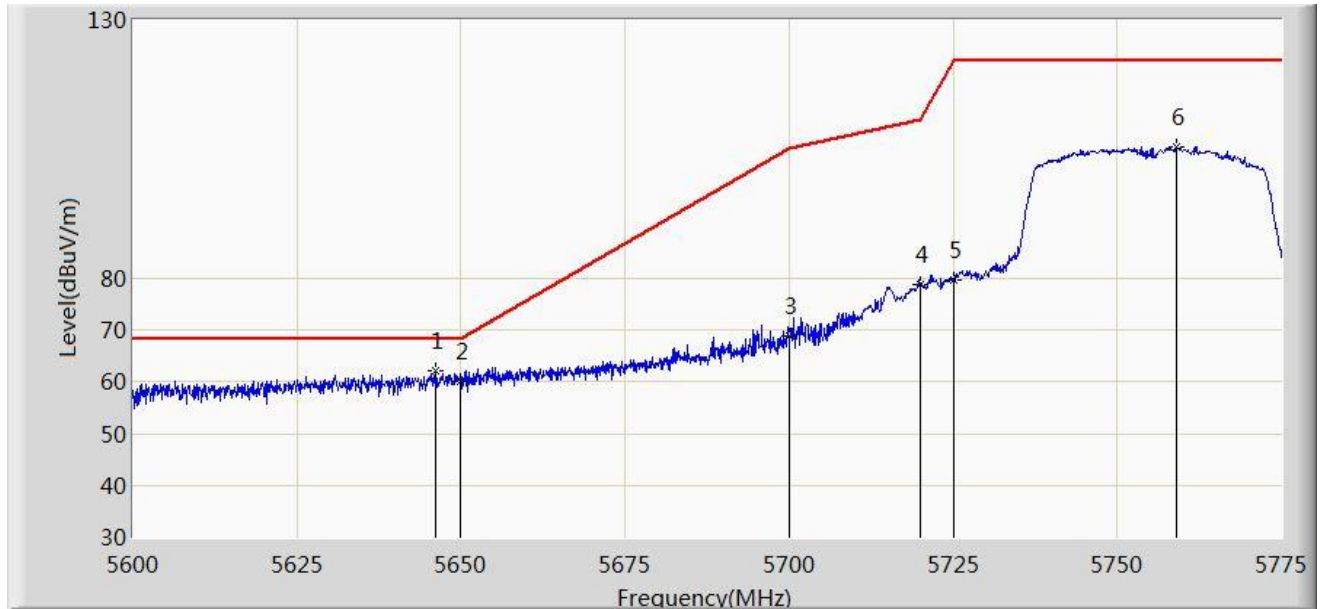


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 44.736                 | 40.294               | -9.264      | 54.000         | 4.442       | AV   |
| 2  |      | *    | 5181.300        | 83.637                 | 79.163               | N/A         | N/A            | 4.474       | AV   |

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:16 |
| Limit: FCC_Part15.407_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Horizontal     |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5755MHz |                          |

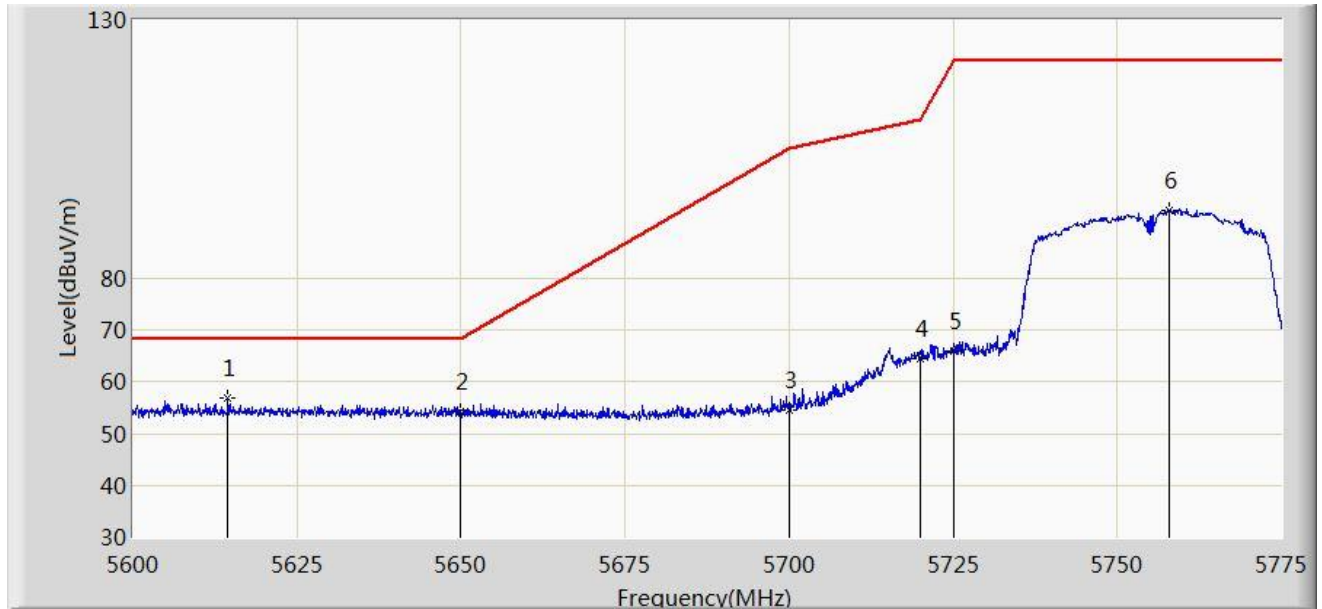


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5646.200        | 62.050                 | 56.776               | -6.150      | 68.200         | 5.274       | PK   |
| 2  |      |      | 5650.000        | 60.123                 | 54.787               | -8.077      | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 68.805                 | 63.487               | -36.395     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 78.832                 | 73.358               | -31.968     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 79.729                 | 74.251               | -42.471     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5758.987        | 105.314                | 99.432               | N/A         | N/A            | 5.882       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:19 |
| Limit: FCC_Part15.407_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Vertical       |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5755MHz |                          |

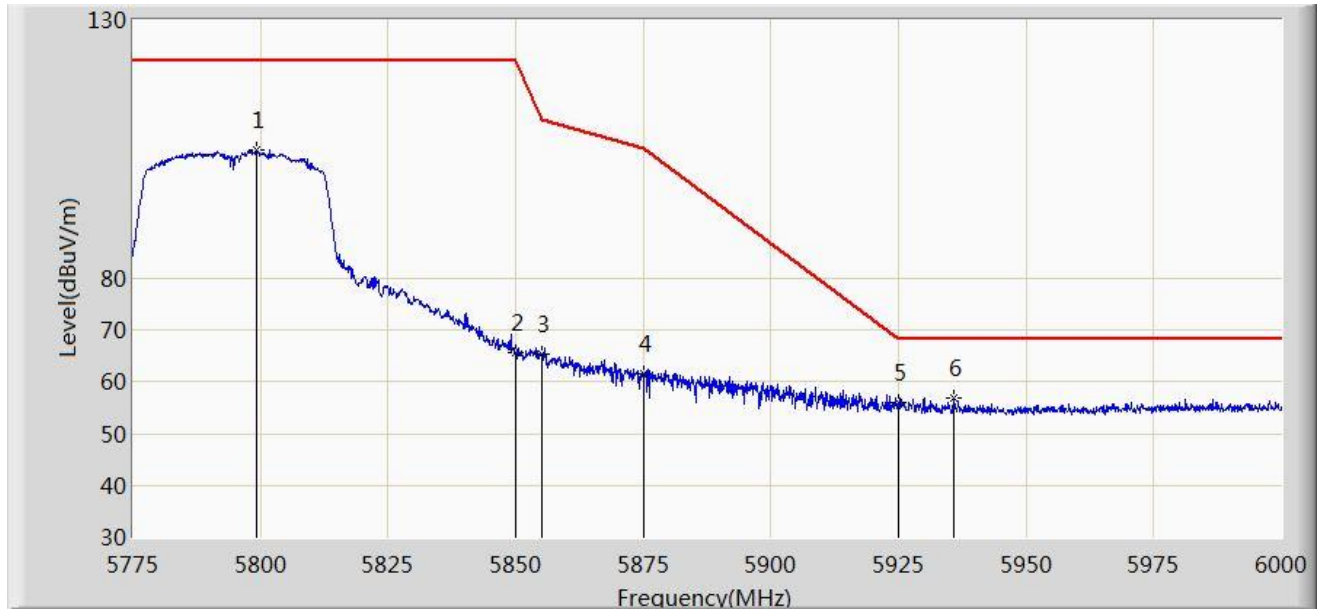


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5614.525        | 56.829                 | 51.779               | -11.371     | 68.200         | 5.050       | PK   |
| 2  |      |      | 5650.000        | 54.192                 | 48.856               | -14.008     | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 54.598                 | 49.280               | -50.602     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 64.546                 | 59.072               | -46.254     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 66.012                 | 60.534               | -56.188     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5758.025        | 93.233                 | 87.370               | N/A         | N/A            | 5.864       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:20 |
| Limit: FCC_Part15.407_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Horizontal     |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5795MHz |                          |

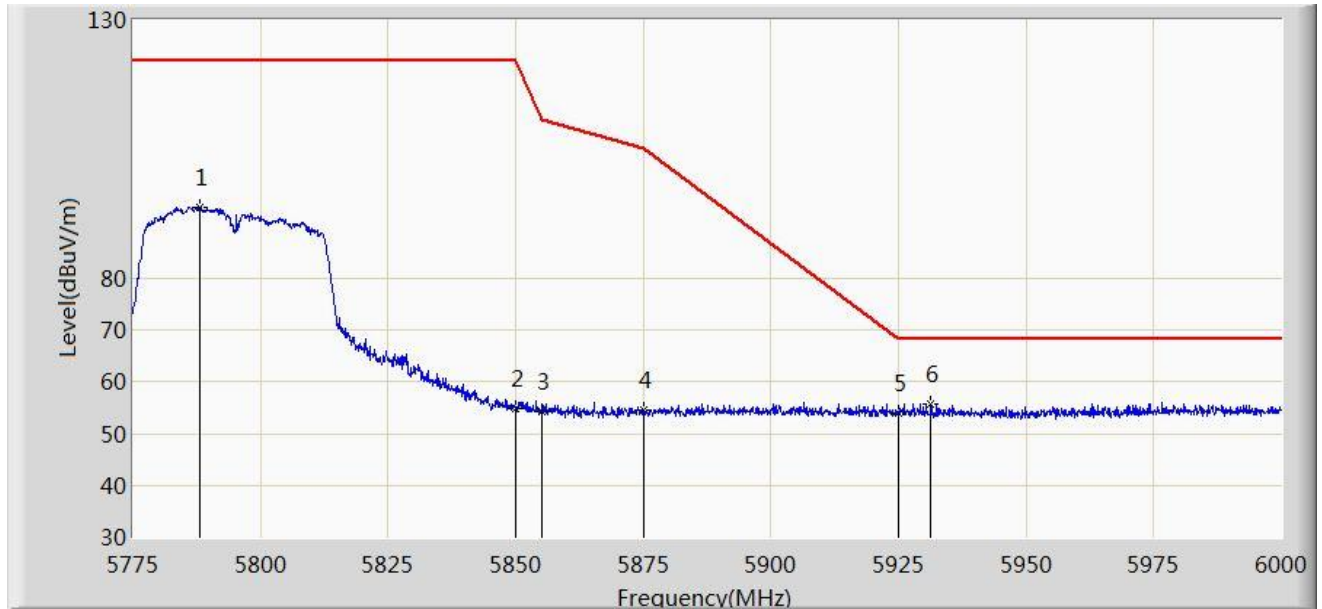


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5799.187        | 104.737                | 98.880               | N/A         | N/A            | 5.857       | PK   |
| 2  |      |      | 5850.000        | 65.595                 | 59.626               | -56.605     | 122.200        | 5.968       | PK   |
| 3  |      |      | 5855.000        | 65.391                 | 59.416               | -45.409     | 110.800        | 5.975       | PK   |
| 4  |      |      | 5875.000        | 61.505                 | 55.492               | -43.695     | 105.200        | 6.013       | PK   |
| 5  |      |      | 5925.000        | 55.922                 | 49.787               | -12.278     | 68.200         | 6.136       | PK   |
| 6  |      | *    | 5935.875        | 56.993                 | 50.867               | -11.207     | 68.200         | 6.127       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:22 |
| Limit: FCC_Part15.407_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Vertical       |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5795MHz |                          |

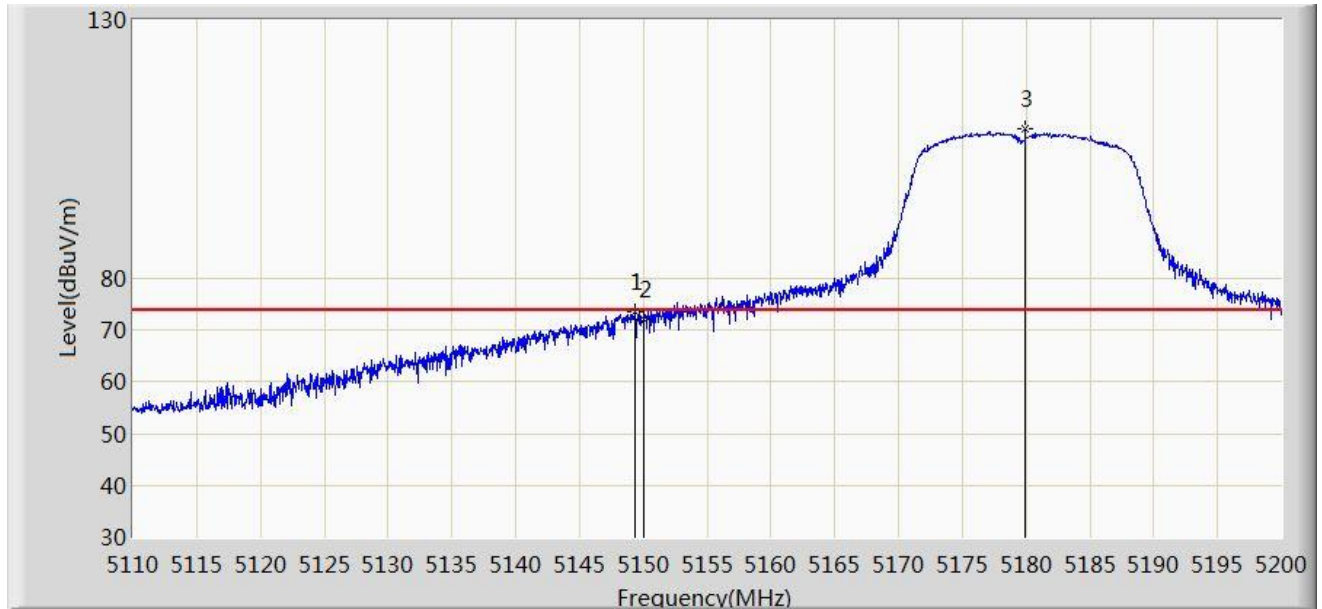


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5788.050        | 93.833                 | 88.034               | N/A         | N/A            | 5.800       | PK   |
| 2  |      |      | 5850.000        | 54.924                 | 48.955               | -67.276     | 122.200        | 5.968       | PK   |
| 3  |      |      | 5855.000        | 54.201                 | 48.226               | -56.599     | 110.800        | 5.975       | PK   |
| 4  |      |      | 5875.000        | 54.474                 | 48.461               | -50.726     | 105.200        | 6.013       | PK   |
| 5  |      |      | 5925.000        | 53.886                 | 47.751               | -14.314     | 68.200         | 6.136       | PK   |
| 6  |      | *    | 5931.263        | 55.634                 | 49.483               | -12.566     | 68.200         | 6.152       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:25 |
| Limit: FCC_Part15.209_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Horizontal     |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz |                          |

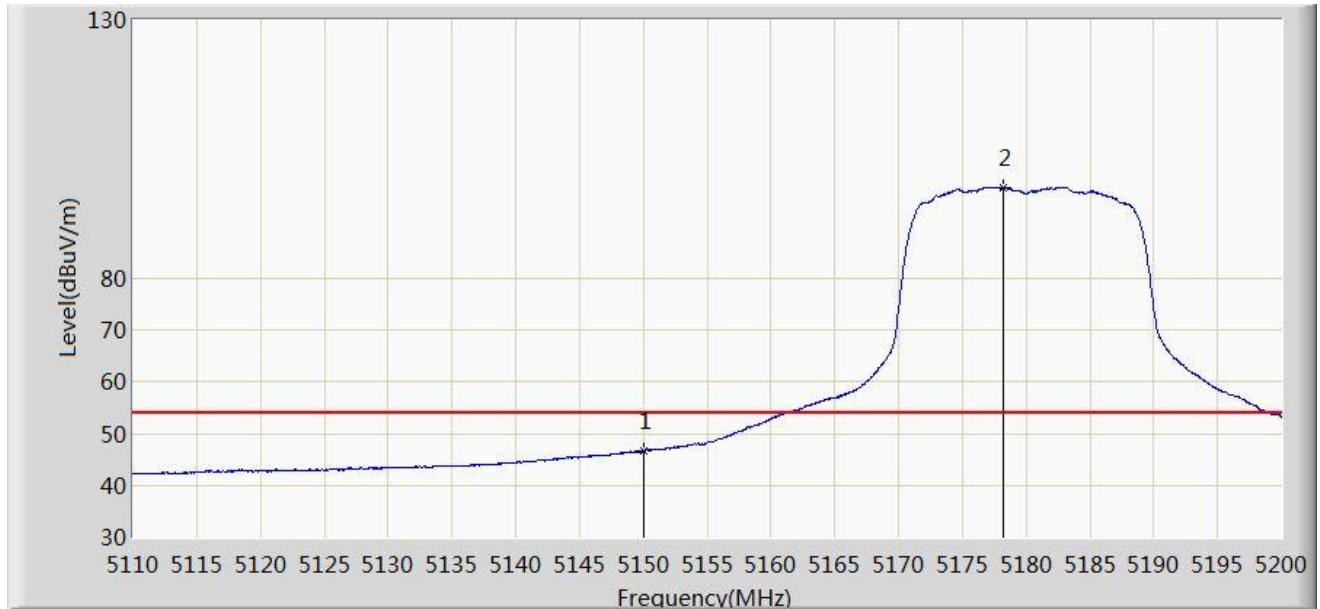


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5149.330        | 73.450                 | 69.015               | -0.550      | 74.000         | 4.434       | PK   |
| 2  |      |      | 5150.000        | 72.109                 | 67.667               | -1.891      | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5179.930        | 109.072                | 104.587              | N/A         | N/A            | 4.485       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:27 |
| Limit: FCC_Part15.209_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Horizontal     |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz |                          |

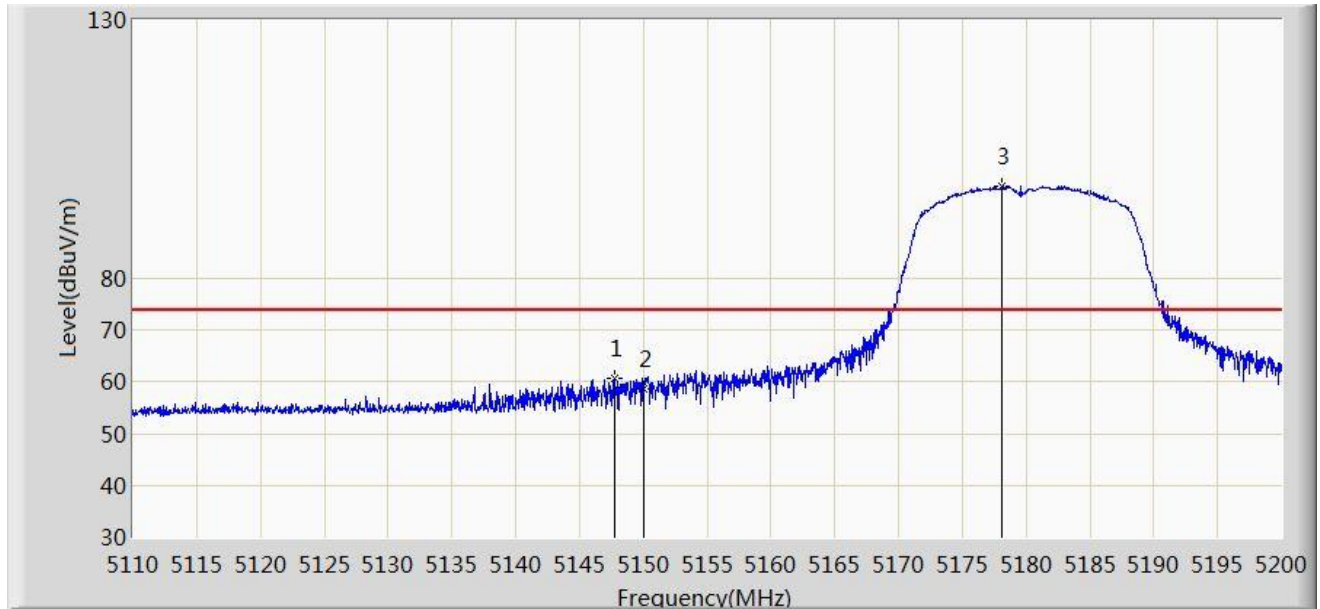


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 46.528                 | 42.086               | -7.472      | 54.000         | 4.442       | AV   |
| 2  |      | *    | 5178.175        | 97.581                 | 93.081               | N/A         | N/A            | 4.501       | AV   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:28 |
| Limit: FCC_Part15.209_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Vertical       |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz |                          |

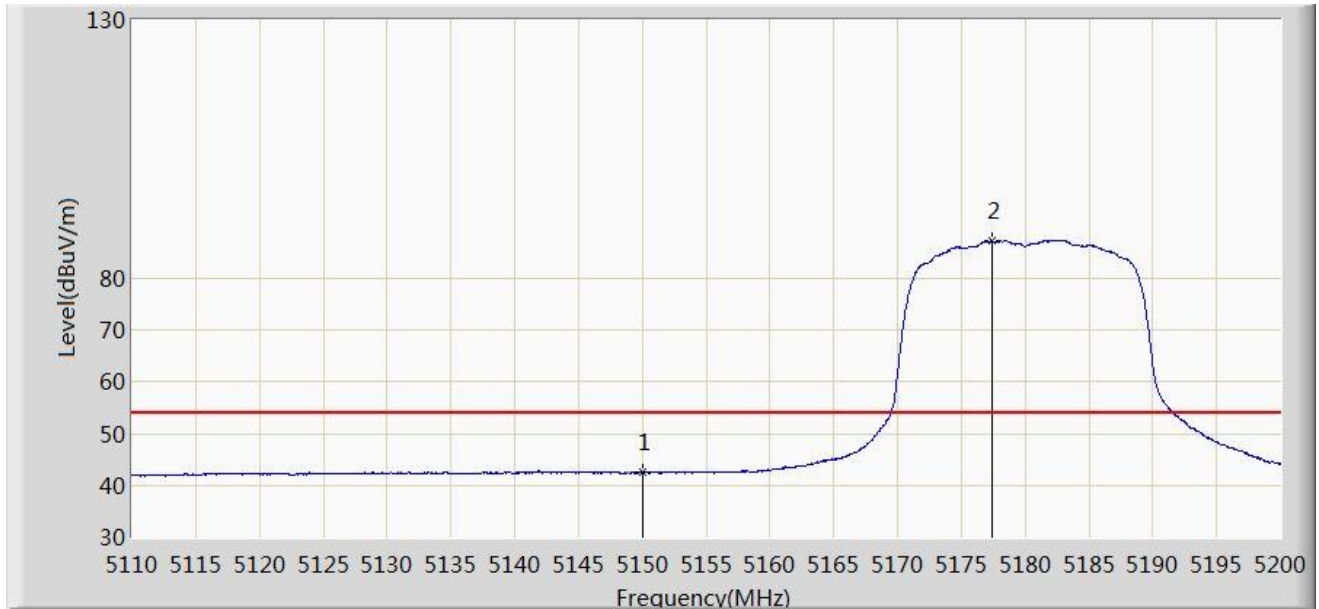


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5147.710        | 60.678                 | 56.258               | -13.322     | 74.000         | 4.420       | PK   |
| 2  |      |      | 5150.000        | 58.659                 | 54.217               | -15.341     | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5178.085        | 97.930                 | 93.429               | N/A         | N/A            | 4.501       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:29 |
| Limit: FCC_Part15.209_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Vertical       |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz |                          |

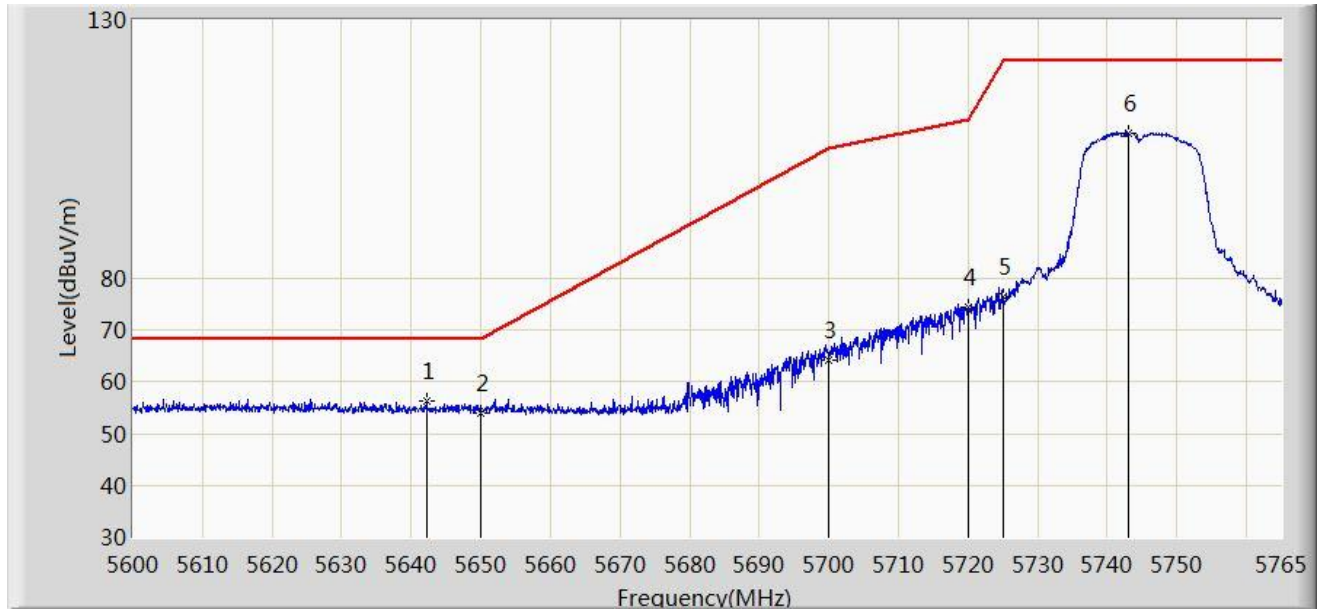


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 42.453                 | 38.011               | -11.547     | 54.000         | 4.442       | AV   |
| 2  |      | *    | 5177.410        | 87.363                 | 82.856               | N/A         | N/A            | 4.507       | AV   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:31 |
| Limit: FCC_Part15.407_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Horizontal     |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz |                          |

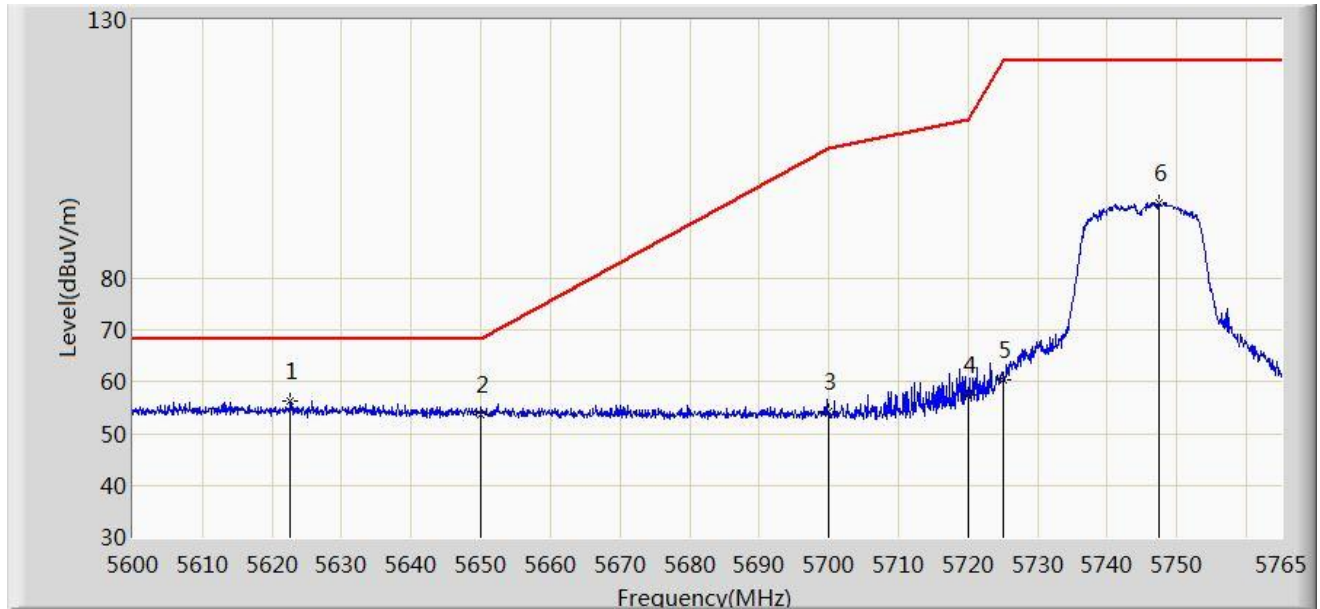


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5642.158        | 56.300                 | 51.092               | -11.900     | 68.200         | 5.208       | PK   |
| 2  |      |      | 5650.000        | 54.109                 | 48.773               | -14.091     | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 64.327                 | 59.009               | -40.873     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 74.455                 | 68.981               | -36.345     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 76.381                 | 70.903               | -45.819     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5743.055        | 108.184                | 102.615              | N/A         | N/A            | 5.568       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:33 |
| Limit: FCC_Part15.407_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Vertical       |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz |                          |

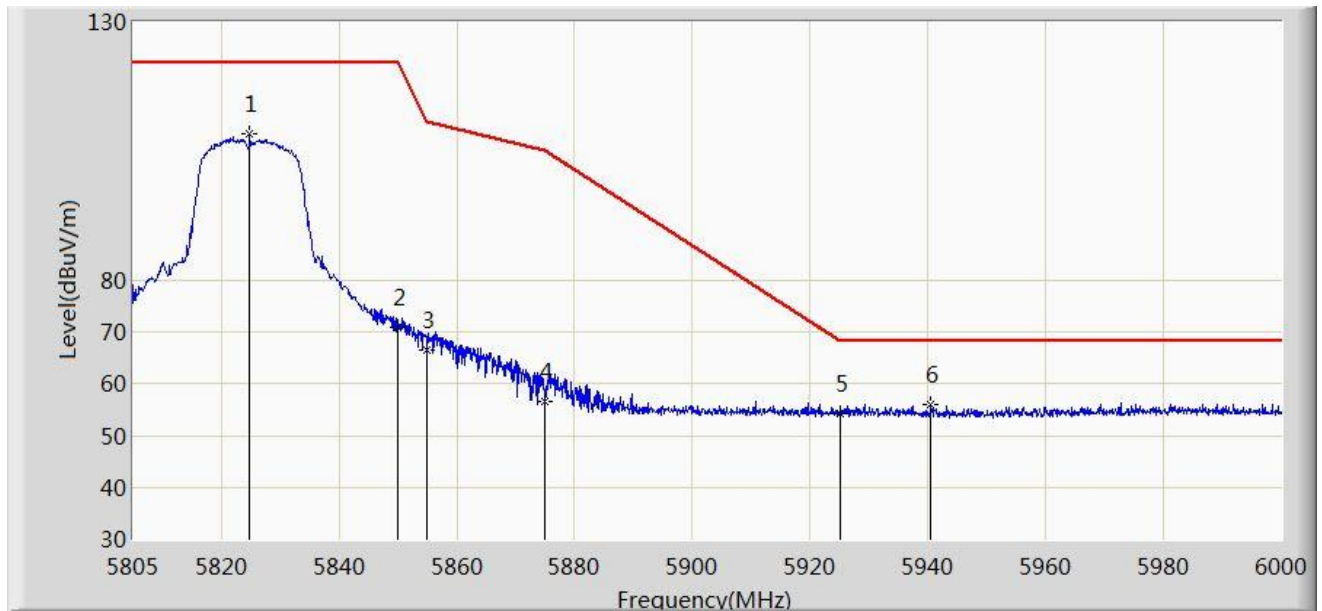


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5622.687        | 56.349                 | 51.172               | -11.851     | 68.200         | 5.177       | PK   |
| 2  |      |      | 5650.000        | 53.727                 | 48.391               | -14.473     | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 54.206                 | 48.888               | -50.994     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 57.535                 | 52.061               | -53.265     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 60.419                 | 54.941               | -61.781     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5747.345        | 94.589                 | 88.936               | N/A         | N/A            | 5.654       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                         |                          |
|---------------------------------------------------------|--------------------------|
| Site: AC2                                               | Time: 2020/02/03 - 16:35 |
| Limit: FCC_Part15.407_RSE (3m)                          | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                            | Polarity: Horizontal     |
| EUT: Notebook                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VH20 at Channel 5825MHz |                          |

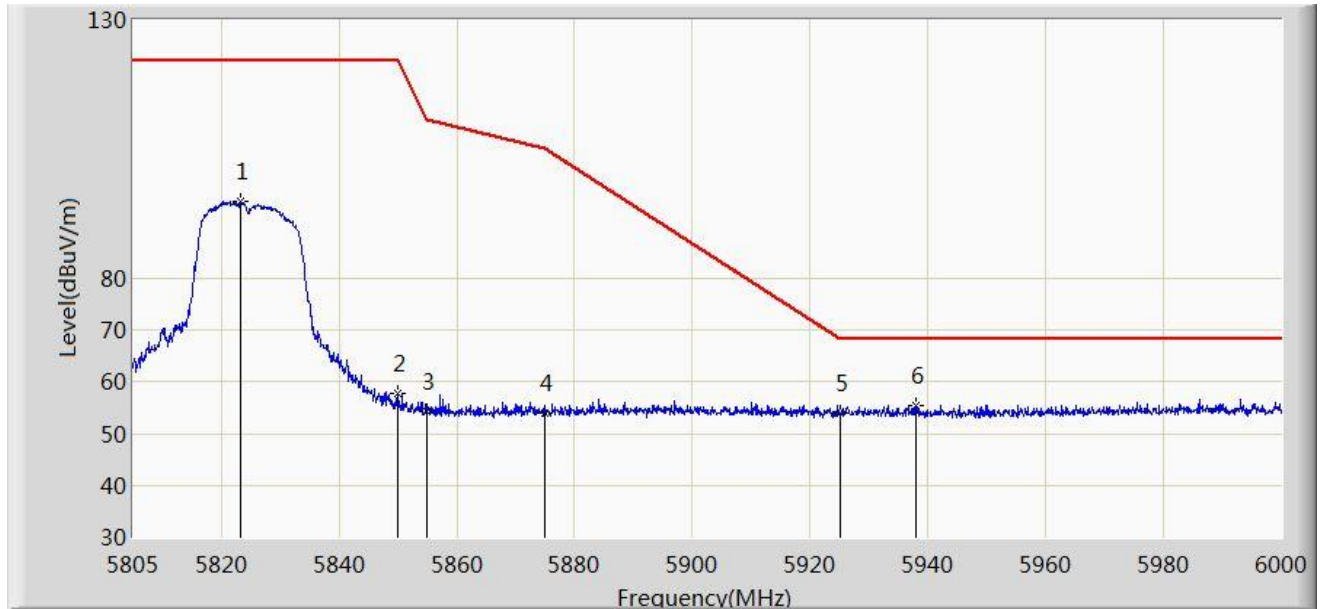


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5824.890        | 108.253                | 102.484              | N/A         | N/A            | 5.769       | PK   |
| 2  |      |      | 5850.000        | 71.074                 | 65.105               | -51.126     | 122.200        | 5.968       | PK   |
| 3  |      |      | 5855.000        | 66.637                 | 60.662               | -44.163     | 110.800        | 5.975       | PK   |
| 4  |      |      | 5875.000        | 56.508                 | 50.495               | -48.692     | 105.200        | 6.013       | PK   |
| 5  |      |      | 5925.000        | 54.263                 | 48.128               | -13.937     | 68.200         | 6.136       | PK   |
| 6  |      | *    | 5940.525        | 56.068                 | 49.967               | -12.132     | 68.200         | 6.101       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                         |                          |
|---------------------------------------------------------|--------------------------|
| Site: AC2                                               | Time: 2020/02/03 - 16:36 |
| Limit: FCC_Part15.407_RSE (3m)                          | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                            | Polarity: Vertical       |
| EUT: Notebook                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VH20 at Channel 5825MHz |                          |

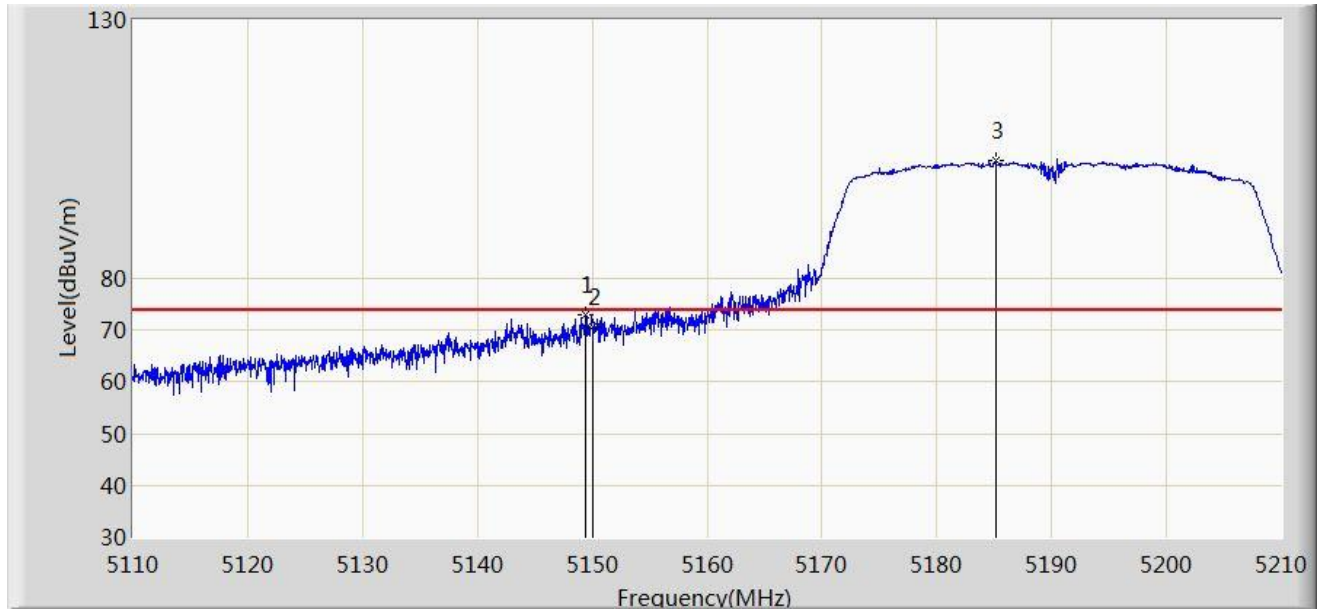


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5823.330        | 94.801                 | 89.019               | N/A         | N/A            | 5.782       | PK   |
| 2  |      |      | 5850.000        | 57.713                 | 51.744               | -64.487     | 122.200        | 5.968       | PK   |
| 3  |      |      | 5855.000        | 54.219                 | 48.244               | -56.581     | 110.800        | 5.975       | PK   |
| 4  |      |      | 5875.000        | 53.963                 | 47.950               | -51.237     | 105.200        | 6.013       | PK   |
| 5  |      |      | 5925.000        | 54.037                 | 47.902               | -14.163     | 68.200         | 6.136       | PK   |
| 6  |      | *    | 5937.893        | 55.362                 | 49.246               | -12.838     | 68.200         | 6.116       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:38 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Horizontal     |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz |                          |

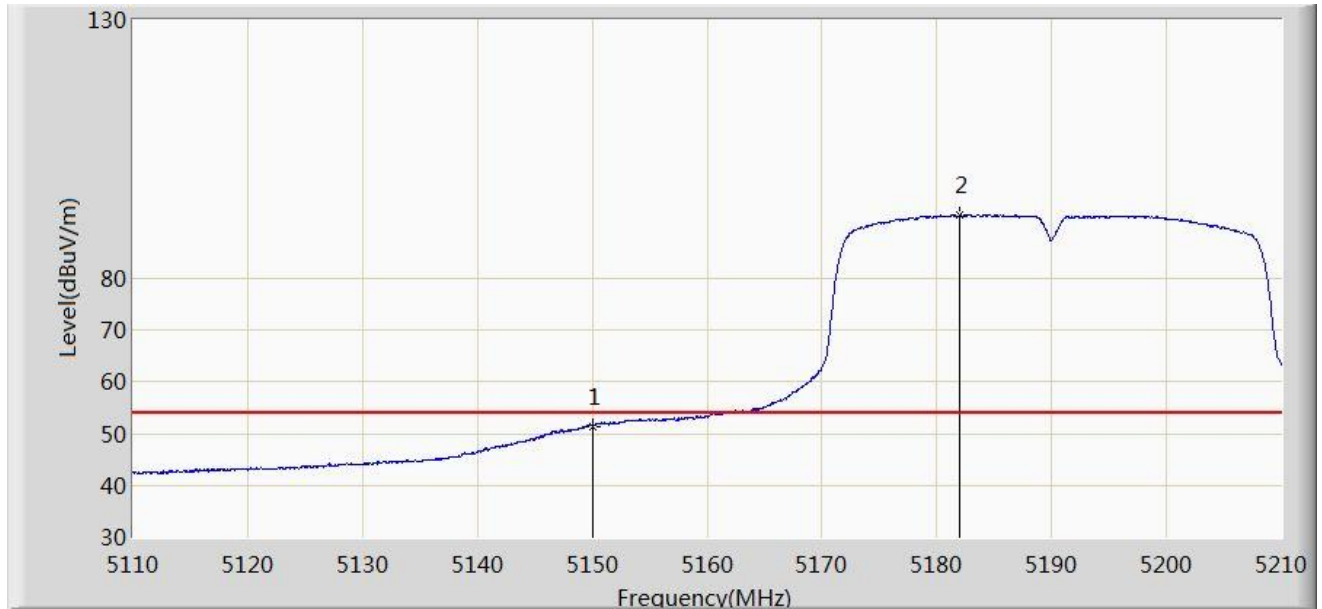


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5149.450        | 72.859                 | 68.423               | -1.141      | 74.000         | 4.436       | PK   |
| 2  |      |      | 5150.000        | 70.616                 | 66.174               | -3.384      | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5185.100        | 102.770                | 98.338               | N/A         | N/A            | 4.431       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:40 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Horizontal     |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz |                          |

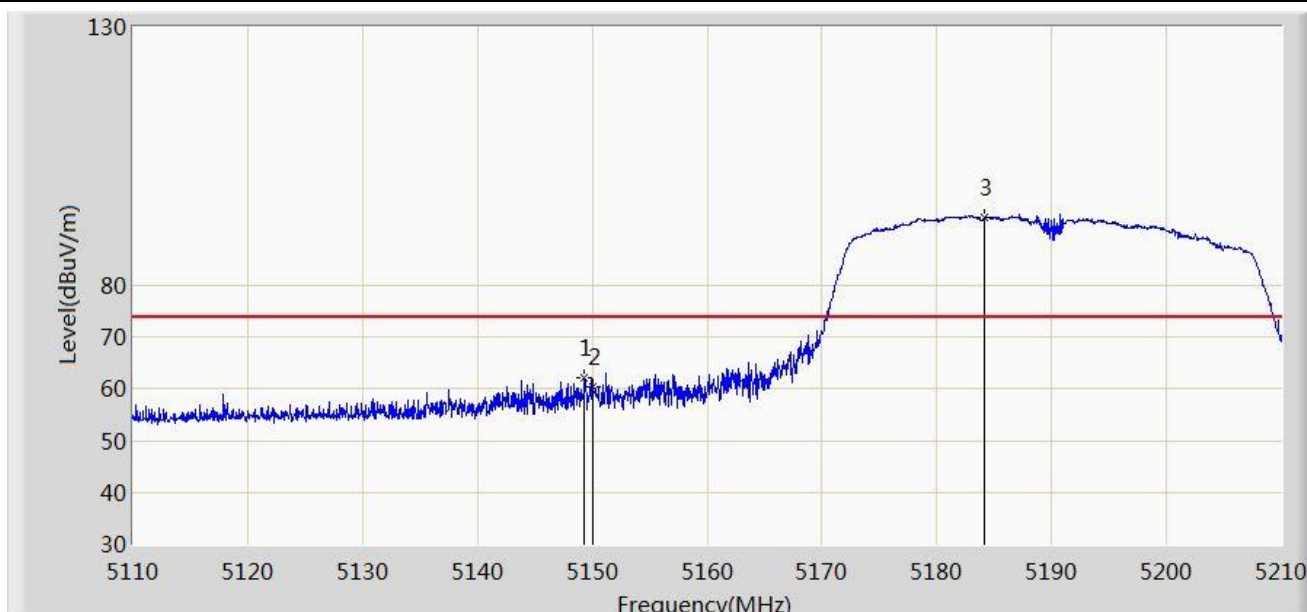


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 51.397                 | 46.955               | -2.603      | 54.000         | 4.442       | AV   |
| 2  |      | *    | 5181.950        | 92.207                 | 87.739               | N/A         | N/A            | 4.468       | AV   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:41 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Vertical       |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz |                          |

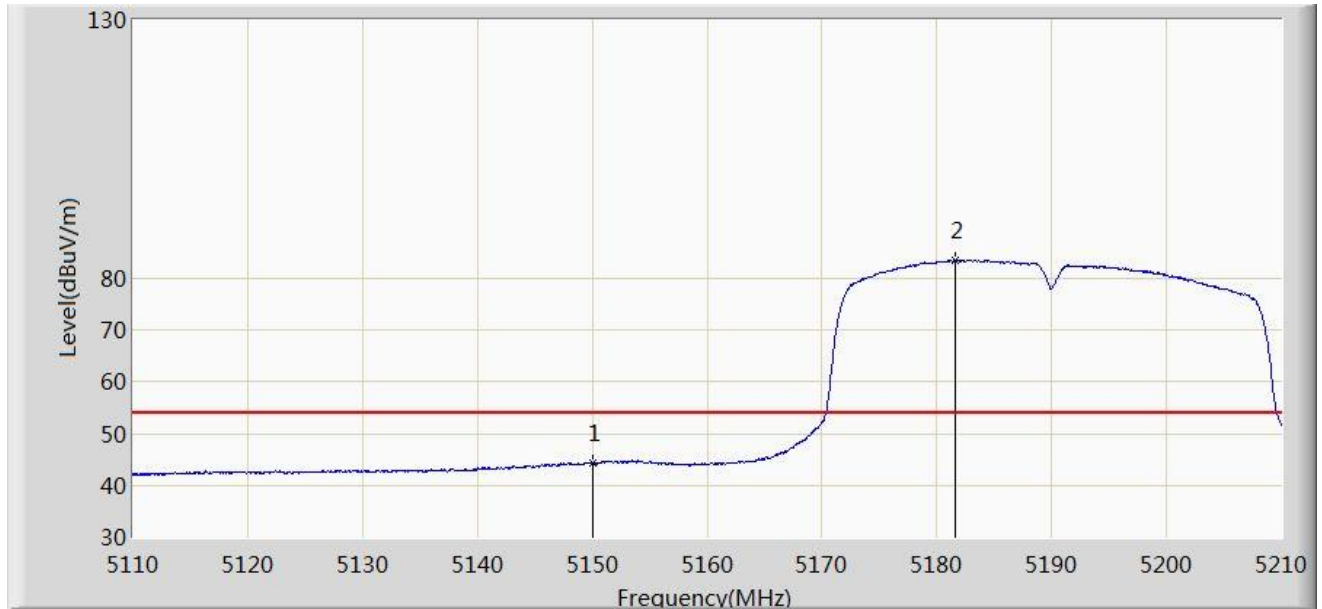


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5149.350        | 62.104                 | 57.669               | -11.896     | 74.000         | 4.435       | PK   |
| 2  |      |      | 5150.000        | 60.360                 | 55.918               | -13.640     | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5184.200        | 93.284                 | 88.842               | N/A         | N/A            | 4.442       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2020/02/03 - 16:42 |
| Limit: FCC_Part15.209_RSE (3m)                         | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                           | Polarity: Vertical       |
| EUT: Notebook                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz |                          |

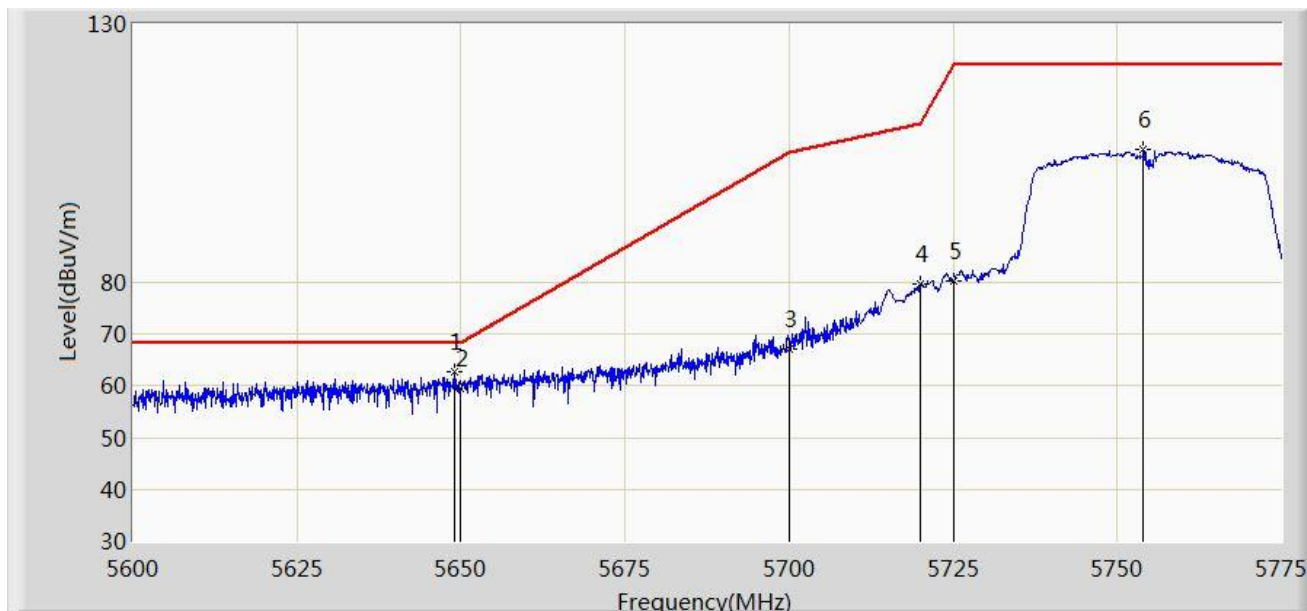


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 44.357                 | 39.915               | -9.643      | 54.000         | 4.442       | AV   |
| 2  |      | *    | 5181.550        | 83.628                 | 79.156               | N/A         | N/A            | 4.471       | AV   |

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:43 |
| Limit: FCC_Part15.407_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Horizontal     |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz |                          |

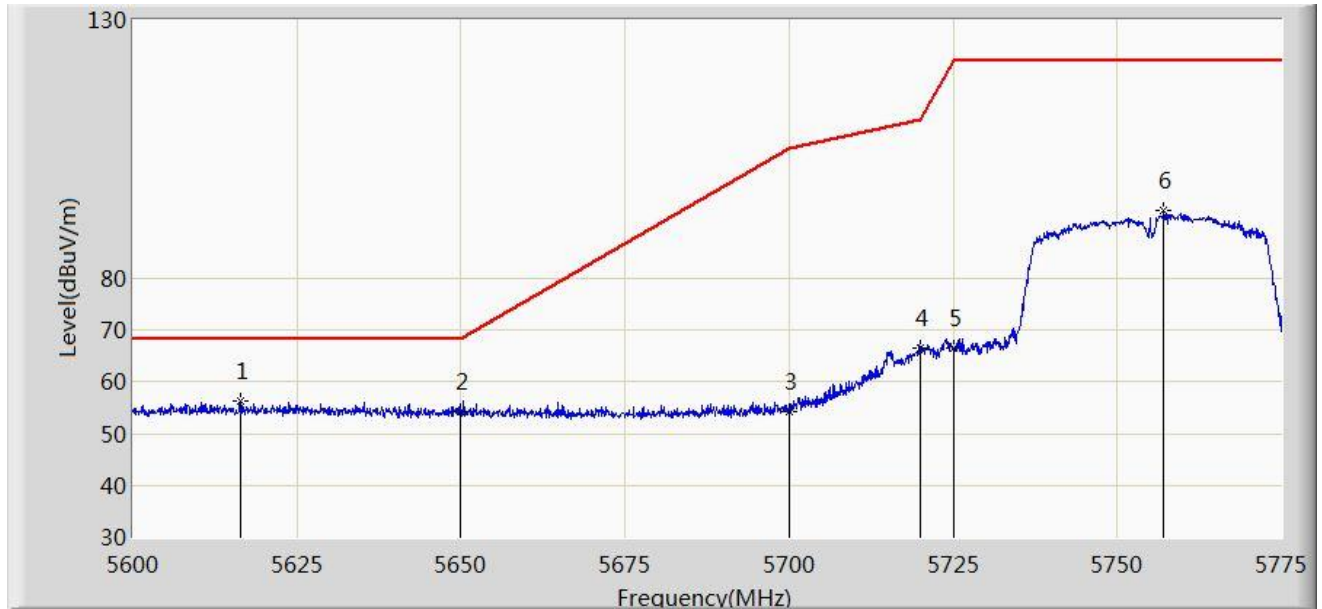


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5648.913        | 62.843                 | 57.525               | -5.357      | 68.200         | 5.318       | PK   |
| 2  |      |      | 5650.000        | 59.439                 | 54.103               | -8.761      | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 67.025                 | 61.707               | -38.175     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 79.676                 | 74.202               | -31.124     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 80.229                 | 74.751               | -41.971     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5754.000        | 105.714                | 99.930               | N/A         | N/A            | 5.784       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:45 |
| Limit: FCC_Part15.407_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Vertical       |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz |                          |

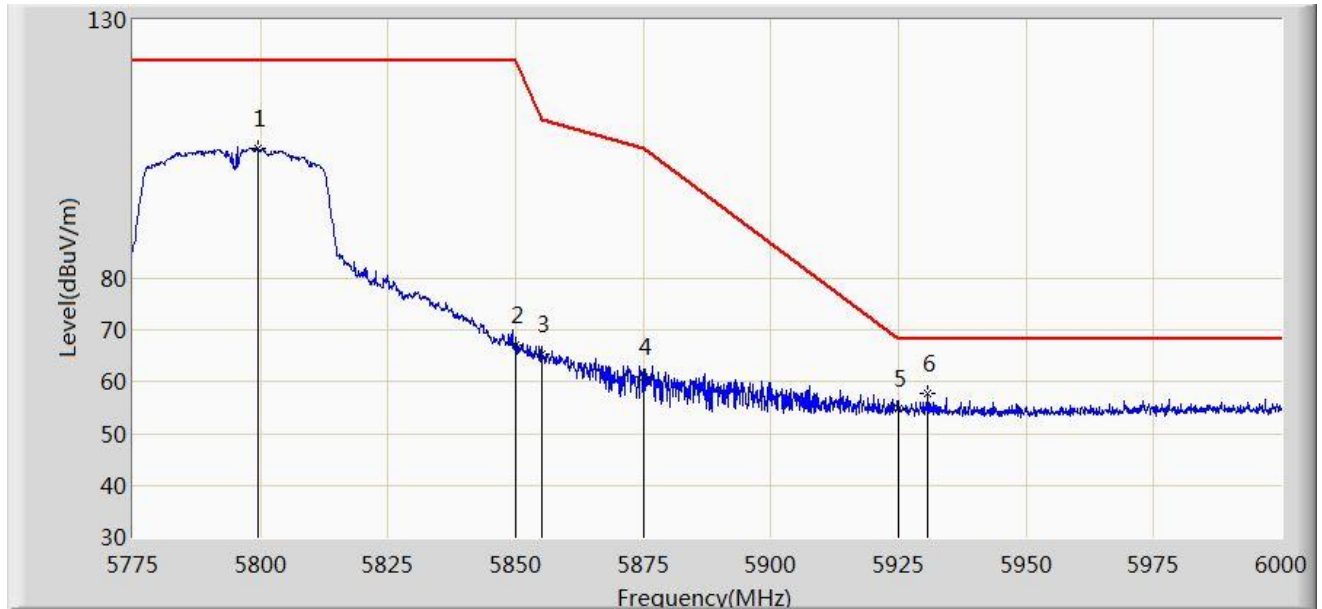


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5616.362        | 56.370                 | 51.291               | -11.830     | 68.200         | 5.079       | PK   |
| 2  |      |      | 5650.000        | 54.340                 | 49.004               | -13.860     | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 54.365                 | 49.047               | -50.835     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 66.419                 | 60.945               | -44.381     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 66.435                 | 60.957               | -55.765     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5757.062        | 93.148                 | 87.304               | N/A         | N/A            | 5.844       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:46 |
| Limit: FCC_Part15.407_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Horizontal     |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz |                          |

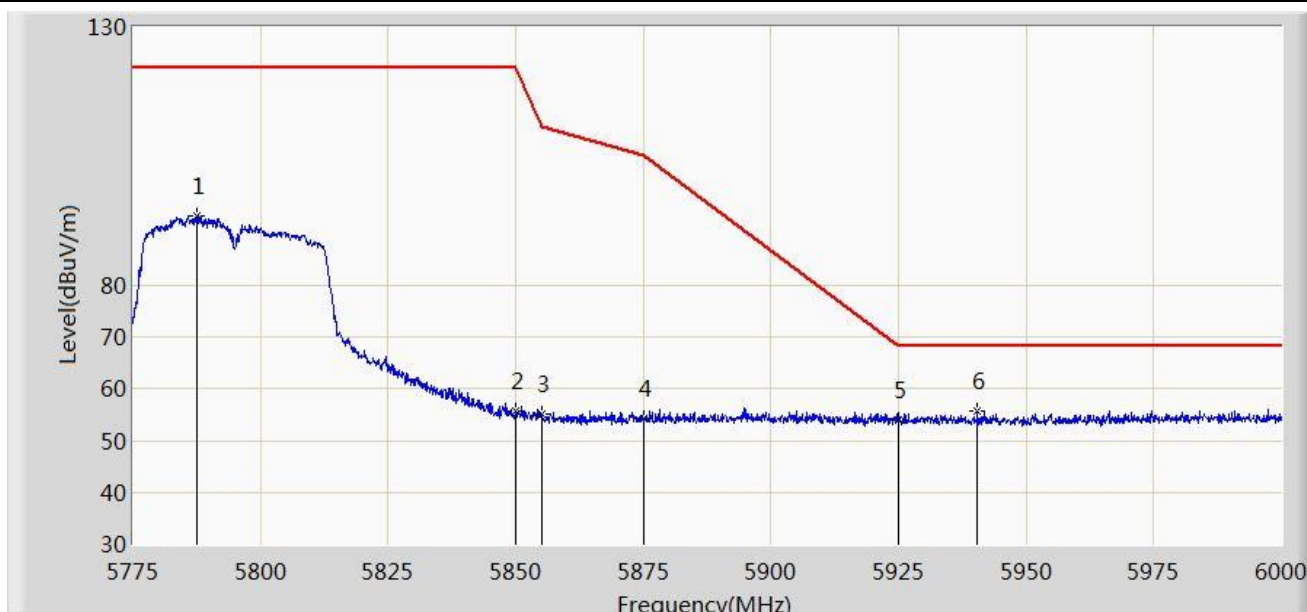


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5799.525        | 105.114                | 99.256               | N/A         | N/A            | 5.858       | PK   |
| 2  |      |      | 5850.000        | 67.236                 | 61.267               | -54.964     | 122.200        | 5.968       | PK   |
| 3  |      |      | 5855.000        | 65.488                 | 59.513               | -45.312     | 110.800        | 5.975       | PK   |
| 4  |      |      | 5875.000        | 60.983                 | 54.970               | -44.217     | 105.200        | 6.013       | PK   |
| 5  |      |      | 5925.000        | 54.810                 | 48.675               | -13.390     | 68.200         | 6.136       | PK   |
| 6  |      | *    | 5930.812        | 57.706                 | 51.552               | -10.494     | 68.200         | 6.154       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:47 |
| Limit: FCC_Part15.407_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Vertical       |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz |                          |

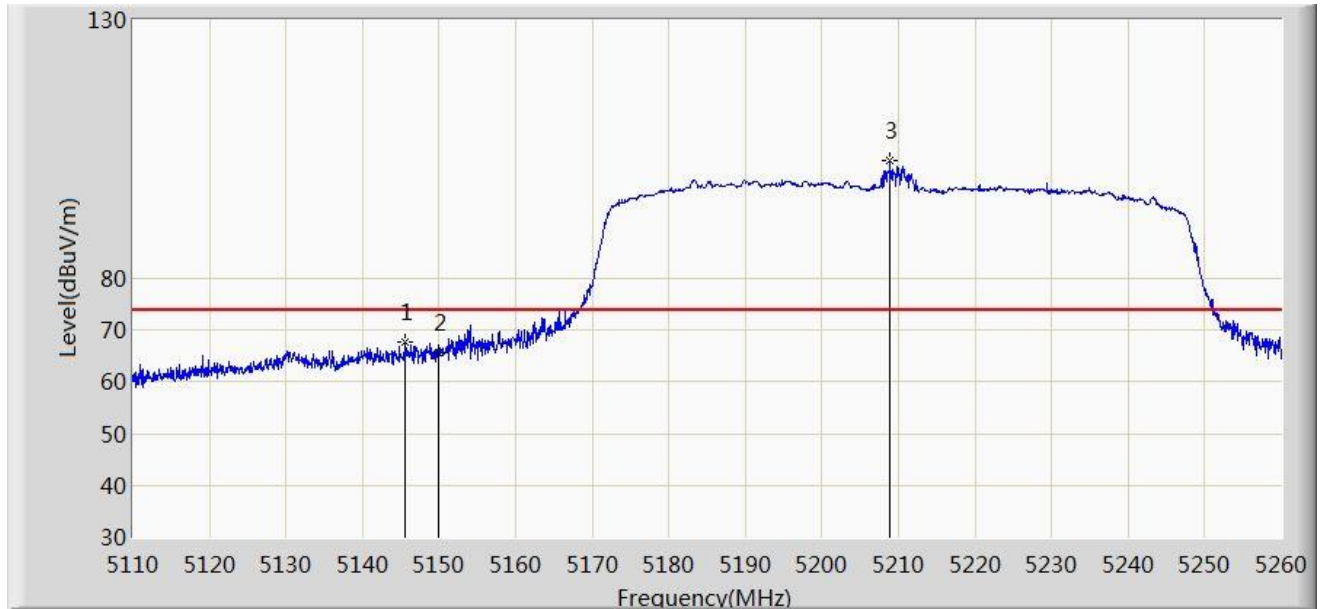


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5787.600        | 93.482                 | 87.686               | N/A         | N/A            | 5.796       | PK   |
| 2  |      |      | 5850.000        | 55.653                 | 49.684               | -66.547     | 122.200        | 5.968       | PK   |
| 3  |      |      | 5855.000        | 55.148                 | 49.173               | -55.652     | 110.800        | 5.975       | PK   |
| 4  |      |      | 5875.000        | 54.163                 | 48.150               | -51.037     | 105.200        | 6.013       | PK   |
| 5  |      |      | 5925.000        | 54.073                 | 47.938               | -14.127     | 68.200         | 6.136       | PK   |
| 6  |      | *    | 5940.375        | 55.747                 | 49.645               | -12.453     | 68.200         | 6.102       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:54 |
| Limit: FCC_Part15.209_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Horizontal     |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz |                          |

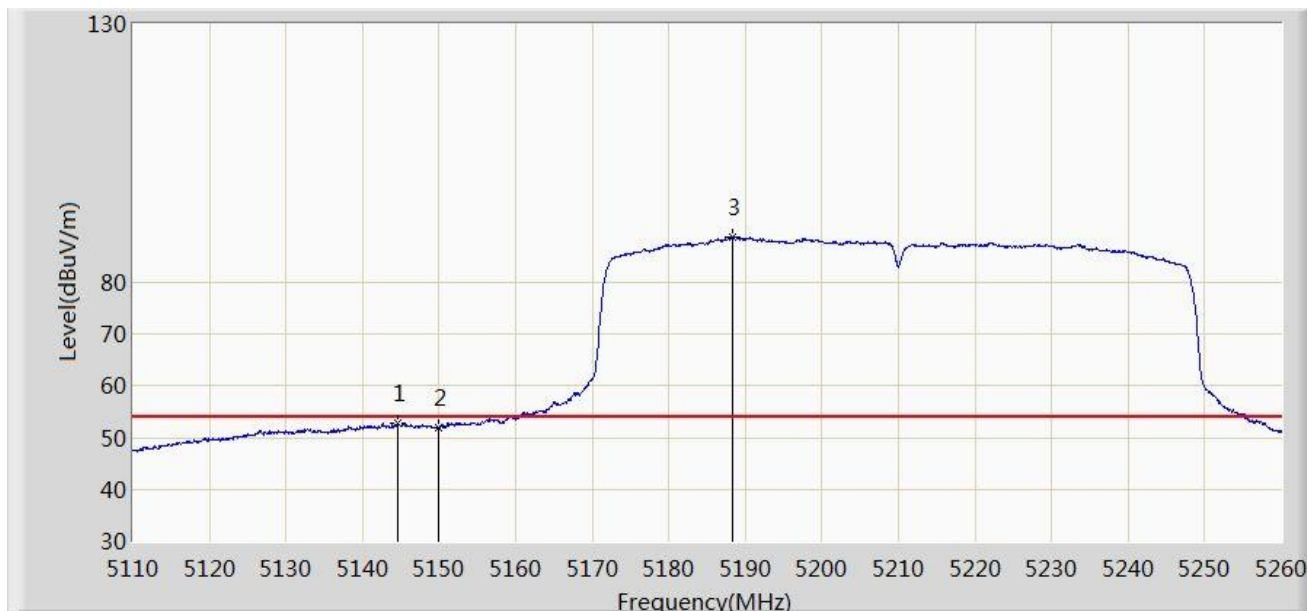


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5145.625        | 67.702                 | 63.282               | -6.298      | 74.000         | 4.420       | PK   |
| 2  |      |      | 5150.000        | 65.799                 | 61.357               | -8.201      | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5208.925        | 102.737                | 98.531               | N/A         | N/A            | 4.205       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:53 |
| Limit: FCC_Part15.209_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Horizontal     |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz |                          |

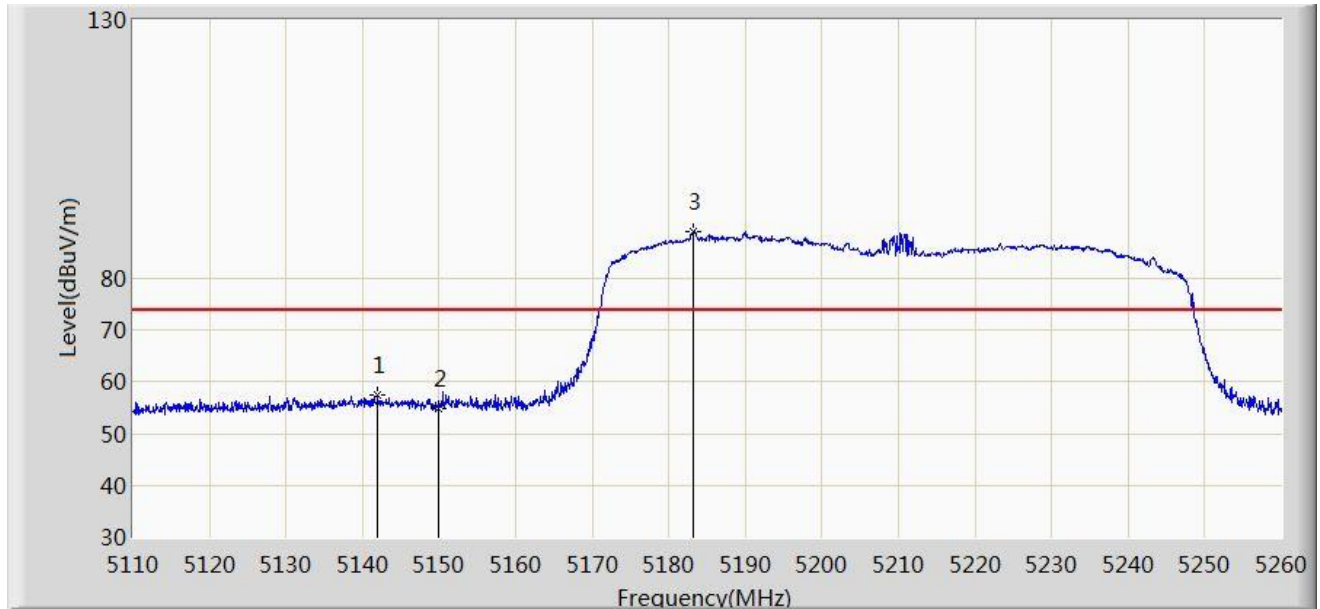


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5144.650        | 52.787                 | 48.367               | -1.213      | 54.000         | 4.420       | AV   |
| 2  |      |      | 5150.000        | 51.948                 | 47.506               | -2.052      | 54.000         | 4.442       | AV   |
| 3  |      | *    | 5188.375        | 88.891                 | 84.498               | N/A         | N/A            | 4.393       | AV   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:54 |
| Limit: FCC_Part15.209_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Vertical       |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz |                          |

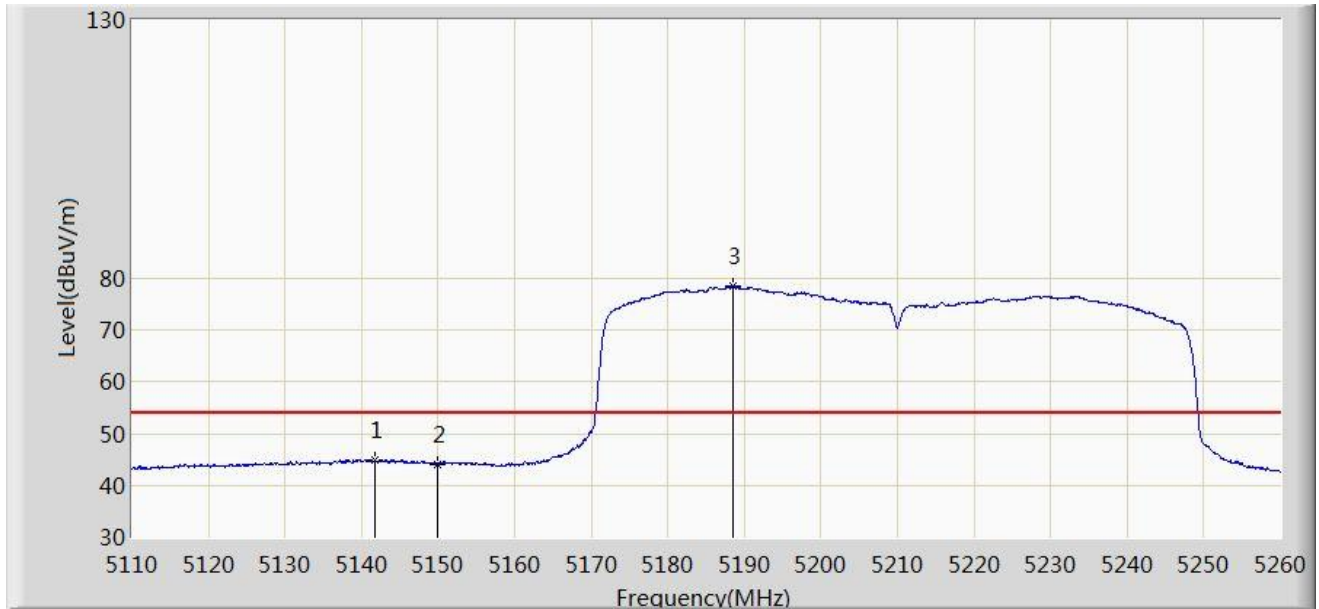


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5142.025        | 57.459                 | 53.039               | -16.541     | 74.000         | 4.420       | PK   |
| 2  |      |      | 5150.000        | 54.973                 | 50.531               | -19.027     | 74.000         | 4.442       | PK   |
| 3  |      | *    | 5183.200        | 89.030                 | 84.576               | N/A         | N/A            | 4.454       | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:55 |
| Limit: FCC_Part15.209_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Vertical       |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz |                          |

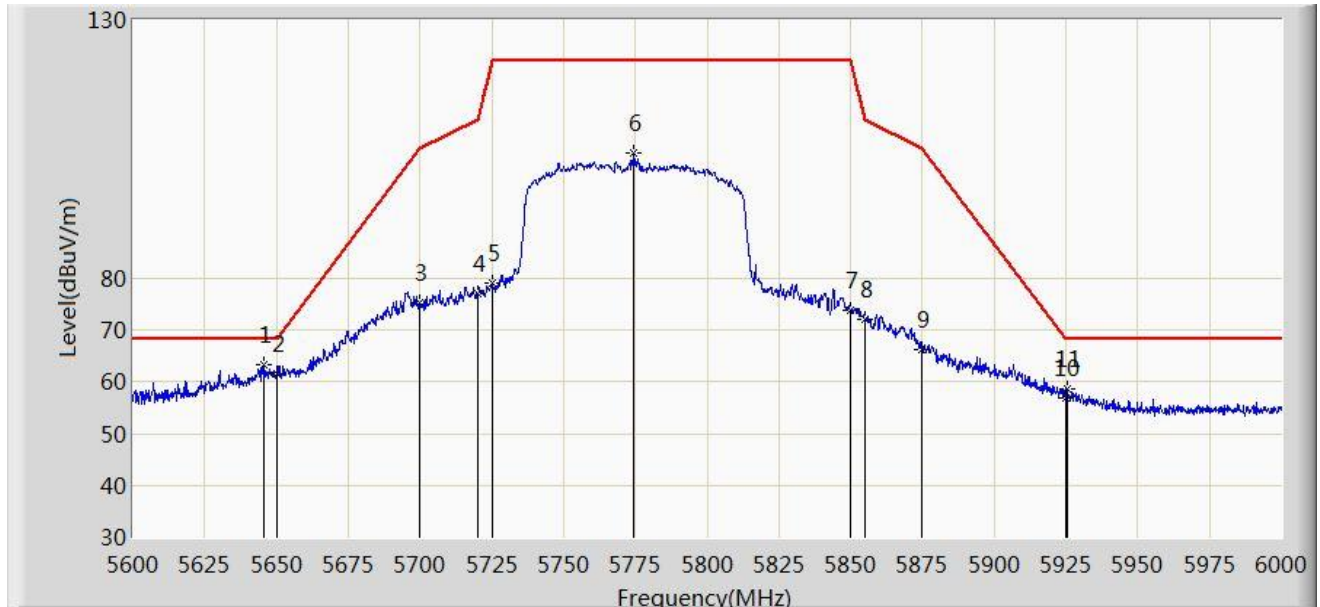


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5141.725        | 44.768                 | 40.347               | -9.232      | 54.000         | 4.421       | AV   |
| 2  |      |      | 5150.000        | 44.178                 | 39.736               | -9.822      | 54.000         | 4.442       | AV   |
| 3  |      | *    | 5188.600        | 78.608                 | 74.217               | N/A         | N/A            | 4.391       | AV   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:57 |
| Limit: FCC_Part15.407_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Horizontal     |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz |                          |

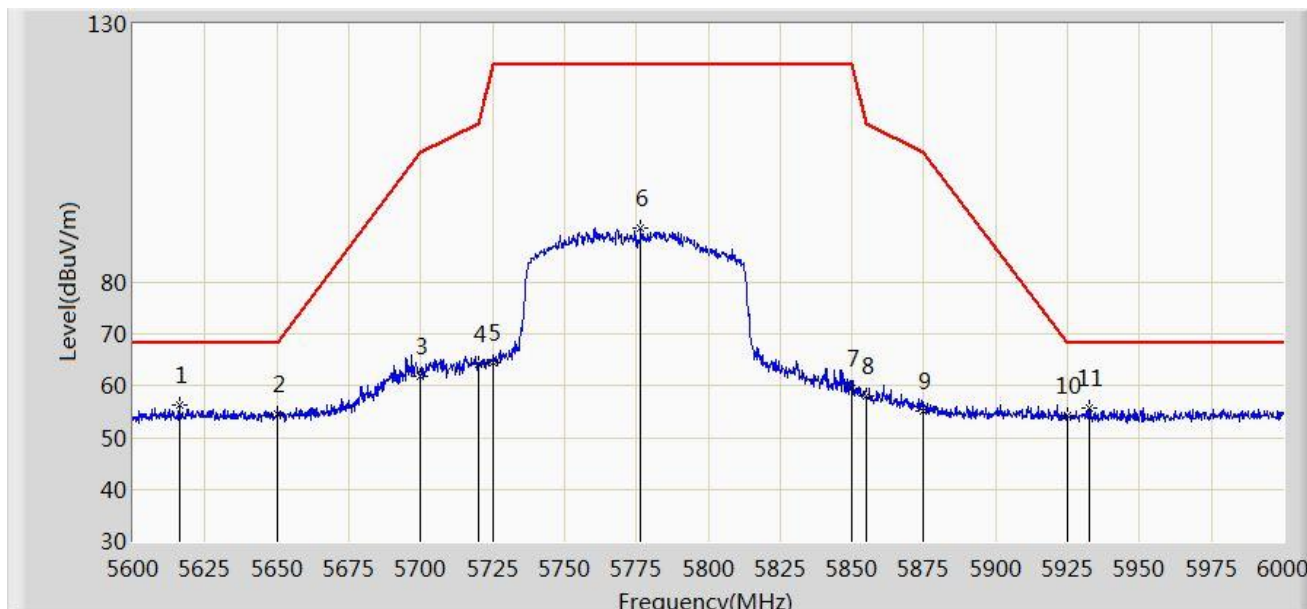


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5645.400        | 63.258                 | 57.997               | -4.942      | 68.200         | 5.261       | PK   |
| 2  |      |      | 5650.000        | 61.572                 | 56.236               | -6.628      | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 75.388                 | 70.070               | -29.812     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 77.115                 | 71.641               | -33.685     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 79.073                 | 73.595               | -43.127     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5774.600        | 104.135                | 98.396               | N/A         | N/A            | 5.740       | PK   |
| 7  |      |      | 5850.000        | 73.778                 | 67.809               | -48.422     | 122.200        | 5.968       | PK   |
| 8  |      |      | 5855.000        | 72.218                 | 66.243               | -38.582     | 110.800        | 5.975       | PK   |
| 9  |      |      | 5875.000        | 66.262                 | 60.249               | -38.938     | 105.200        | 6.013       | PK   |
| 10 |      |      | 5925.000        | 56.769                 | 50.634               | -11.431     | 68.200         | 6.136       | PK   |
| 11 |      |      | 5925.400        | 58.790                 | 52.653               | -9.410      | 68.200         | 6.138       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Site: AC2                                                | Time: 2020/02/03 - 16:58 |
| Limit: FCC_Part15.407_RSE (3m)                           | Engineer: Lewis Huang    |
| Probe: AC2_BBHA9120D_1-18GHz                             | Polarity: Vertical       |
| EUT: Notebook                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5616.200        | 56.297                 | 51.221               | -11.903     | 68.200         | 5.076       | PK   |
| 2  |      |      | 5650.000        | 54.673                 | 49.337               | -13.527     | 68.200         | 5.336       | PK   |
| 3  |      |      | 5700.000        | 61.899                 | 56.581               | -43.301     | 105.200        | 5.318       | PK   |
| 4  |      |      | 5720.000        | 64.224                 | 58.750               | -46.576     | 110.800        | 5.474       | PK   |
| 5  |      |      | 5725.000        | 64.600                 | 59.122               | -57.600     | 122.200        | 5.478       | PK   |
| 6  |      |      | 5776.400        | 90.627                 | 84.908               | N/A         | N/A            | 5.719       | PK   |
| 7  |      |      | 5850.000        | 59.389                 | 53.420               | -62.811     | 122.200        | 5.968       | PK   |
| 8  |      |      | 5855.000        | 57.956                 | 51.981               | -52.844     | 110.800        | 5.975       | PK   |
| 9  |      |      | 5875.000        | 55.183                 | 49.170               | -50.017     | 105.200        | 6.013       | PK   |
| 10 |      |      | 5925.000        | 54.153                 | 48.018               | -14.047     | 68.200         | 6.136       | PK   |
| 11 |      |      | 5932.400        | 55.759                 | 49.614               | -12.441     | 68.200         | 6.145       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

## 7.9. AC Conducted Emissions Measurement

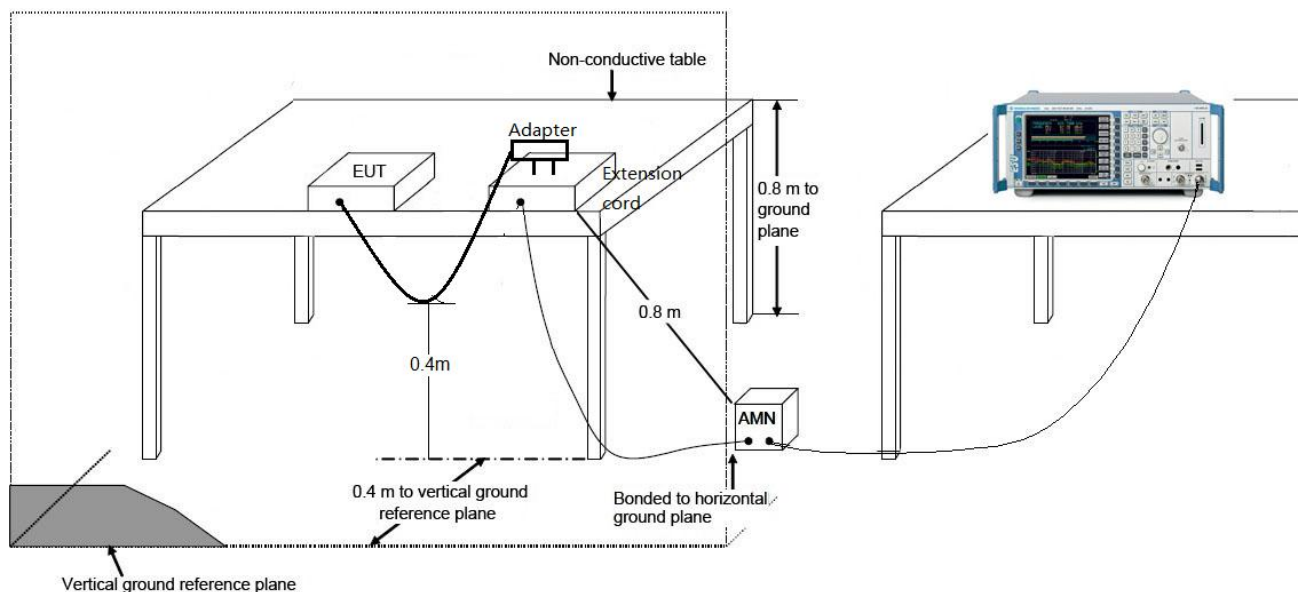
### 7.9.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits |                 |                      |
|-----------------------------------------------|-----------------|----------------------|
| Frequency (MHz)                               | QP (dB $\mu$ V) | Average (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.

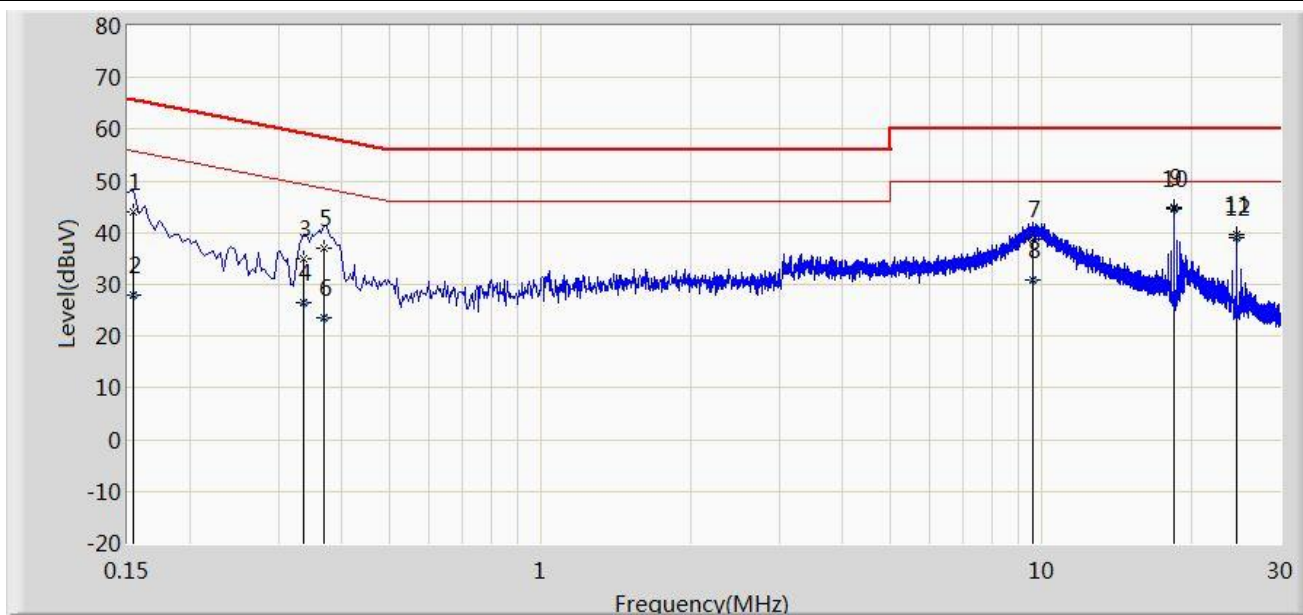
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.9.2. Test Setup



### 7.9.3.Test Result

|                                                    |                          |
|----------------------------------------------------|--------------------------|
| Site: SR2                                          | Time: 2020/02/05 - 16:10 |
| Limit: FCC_Part15.207_CE_AC Power                  | Engineer: Lewis Huang    |
| Probe: ENV216_101683_Filter On                     | Polarity: Line           |
| EUT: Notebook                                      | Power: AC 120V/60Hz      |
| Worst Mode: Transmit by 802.11a at Channel 5180MHz |                          |

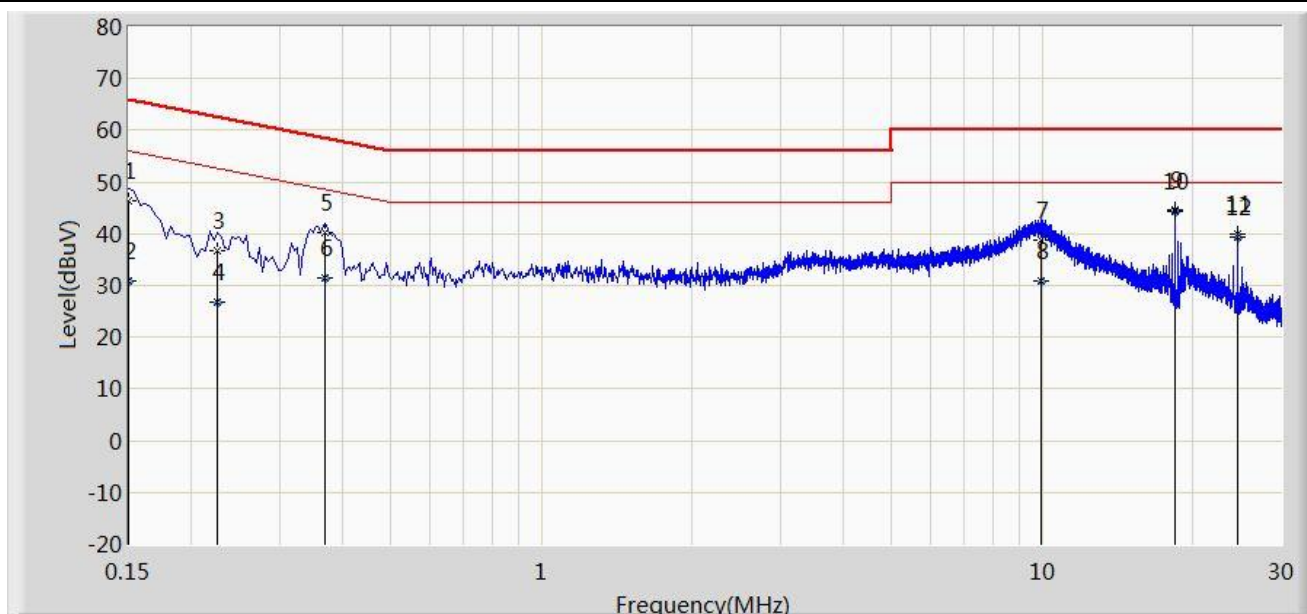


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-------------|--------------|-------------|------|
| 1  |      |      | 0.154           | 43.977               | 33.237               | -21.805     | 65.781       | 10.740      | QP   |
| 2  |      |      | 0.154           | 27.992               | 17.252               | -27.790     | 55.781       | 10.740      | AV   |
| 3  |      |      | 0.338           | 35.064               | 25.030               | -24.188     | 59.252       | 10.034      | QP   |
| 4  |      |      | 0.338           | 26.459               | 16.425               | -22.793     | 49.252       | 10.034      | AV   |
| 5  |      |      | 0.370           | 37.043               | 26.982               | -21.458     | 58.501       | 10.061      | QP   |
| 6  |      |      | 0.370           | 23.455               | 13.394               | -25.046     | 48.501       | 10.061      | AV   |
| 7  |      |      | 9.602           | 38.747               | 28.580               | -21.253     | 60.000       | 10.167      | QP   |
| 8  |      |      | 9.602           | 30.934               | 20.767               | -19.066     | 50.000       | 10.167      | AV   |
| 9  |      |      | 18.434          | 44.908               | 34.808               | -15.092     | 60.000       | 10.100      | QP   |
| 10 |      | *    | 18.434          | 44.615               | 34.515               | -5.385      | 50.000       | 10.100      | AV   |
| 11 |      |      | 24.574          | 39.669               | 29.467               | -20.331     | 60.000       | 10.202      | QP   |
| 12 |      |      | 24.574          | 39.194               | 28.992               | -10.806     | 50.000       | 10.202      | AV   |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

|                                                    |                          |
|----------------------------------------------------|--------------------------|
| Site: SR2                                          | Time: 2020/02/05 - 16:18 |
| Limit: FCC_Part15.207_CE_AC Power                  | Engineer: Liz Yuan       |
| Probe: ENV216_101683_Filter On                     | Polarity: Neutral        |
| EUT: Notebook                                      | Power: AC 120V/60Hz      |
| Worst Mode: Transmit by 802.11a at Channel 5180MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-------------|--------------|-------------|------|
| 1  |      |      | 0.150           | 46.489               | 35.347               | -19.511     | 66.000       | 11.142      | QP   |
| 2  |      |      | 0.150           | 30.890               | 19.748               | -25.110     | 56.000       | 11.142      | AV   |
| 3  |      |      | 0.226           | 36.609               | 26.626               | -25.987     | 62.595       | 9.982       | QP   |
| 4  |      |      | 0.226           | 26.662               | 16.679               | -25.934     | 52.595       | 9.982       | AV   |
| 5  |      |      | 0.370           | 40.145               | 30.055               | -18.356     | 58.501       | 10.090      | QP   |
| 6  |      |      | 0.370           | 31.455               | 21.365               | -17.046     | 48.501       | 10.090      | AV   |
| 7  |      |      | 9.966           | 38.782               | 28.618               | -21.218     | 60.000       | 10.164      | QP   |
| 8  |      |      | 9.966           | 30.820               | 20.656               | -19.180     | 50.000       | 10.164      | AV   |
| 9  |      |      | 18.434          | 44.552               | 34.415               | -15.448     | 60.000       | 10.137      | QP   |
| 10 |      | *    | 18.434          | 44.256               | 34.119               | -5.744      | 50.000       | 10.137      | AV   |
| 11 |      |      | 24.578          | 40.008               | 29.721               | -19.992     | 60.000       | 10.287      | QP   |
| 12 |      |      | 24.578          | 39.493               | 29.206               | -10.507     | 50.000       | 10.287      | AV   |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that this device is compliance with Part 15E of the FCC Rules.

---

The End

## **Appendix A - Test Setup Photograph**

Refer to “2002RSU005-UT” file.

## **Appendix B - EUT Photograph**

Refer to "2002RSU005-UE" file.