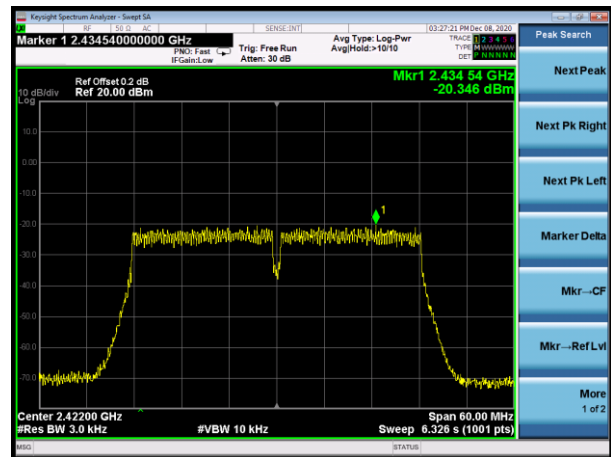
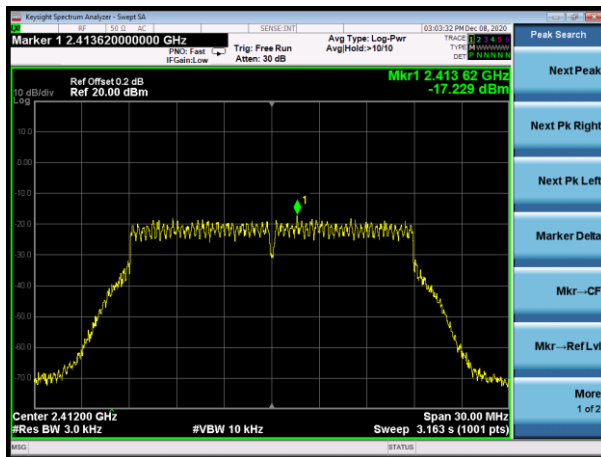
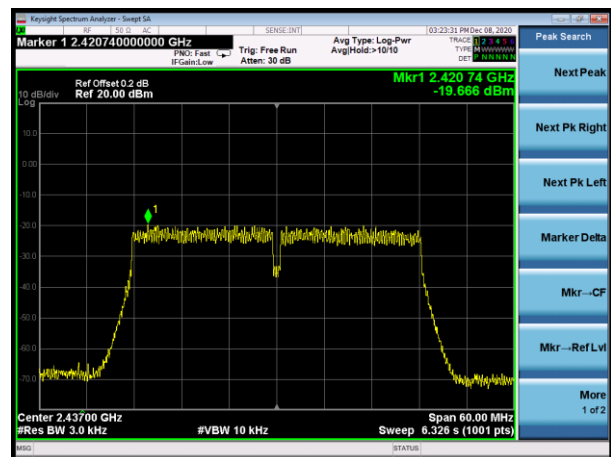
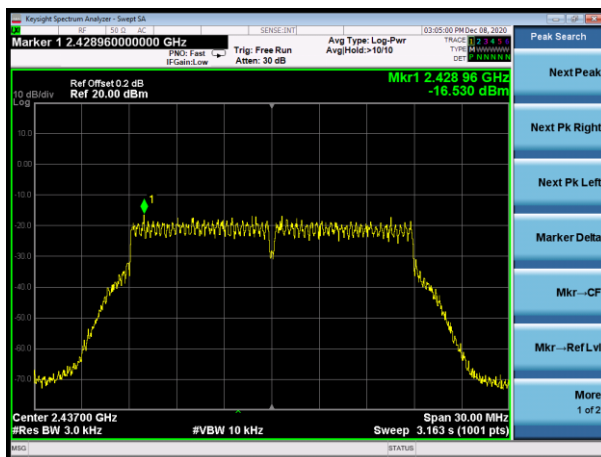


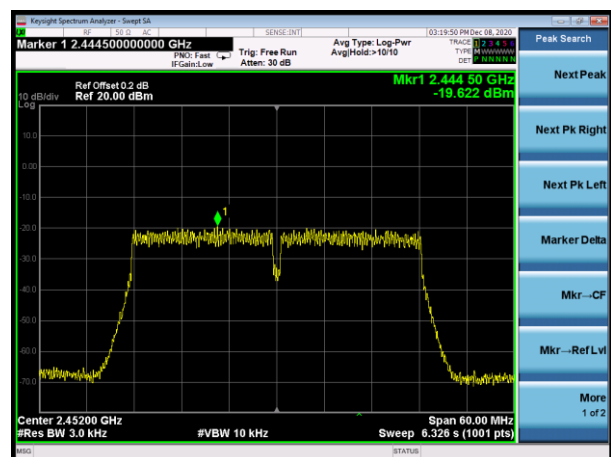
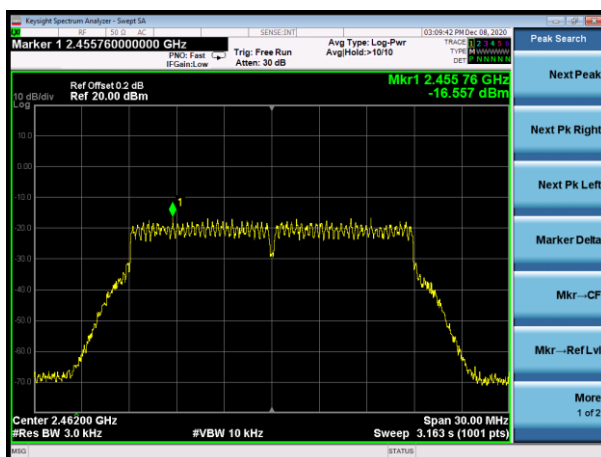
|               |  |               |  |
|---------------|--|---------------|--|
| 802.11n(HT20) |  | 802.11n(HT40) |  |
|---------------|--|---------------|--|



Lowest channel



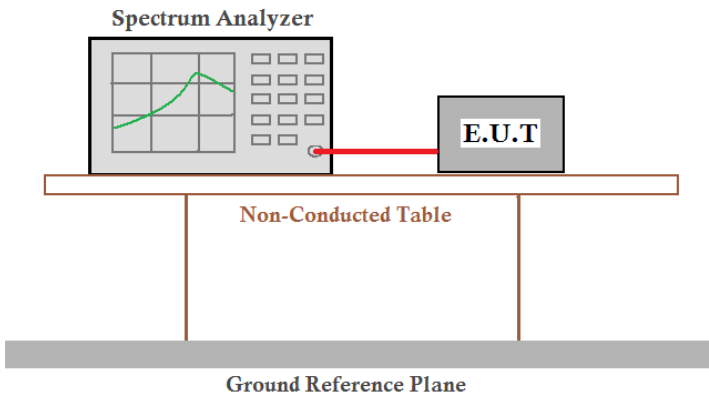
Middle channel



Highest channel

## 7.6 Band edges

### 7.6.1 Conducted Emission Method

|                   |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                         |
| Test Method:      | KDB558074 D01 DTS Meas Guidance v05or02<br>KDB 662911 D01 Multiple Transmitter Output v02r01                                                                                                                                                                                                                                                                                            |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>                               |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                        |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                        |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                    |

Test plot as follows:

Antenna 1:

Test mode: 802.11b

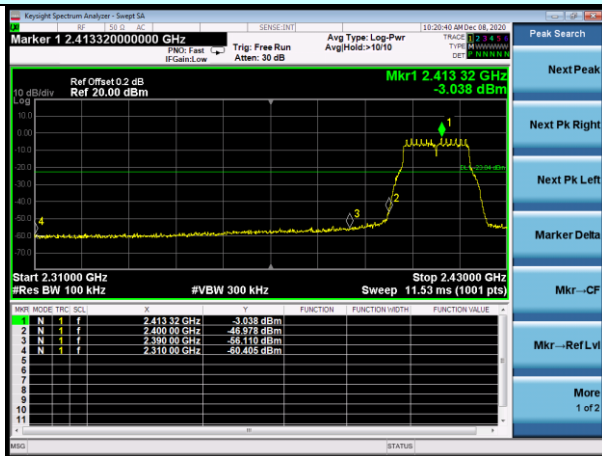


Lowest channel



Highest channel

Test mode: 802.11g



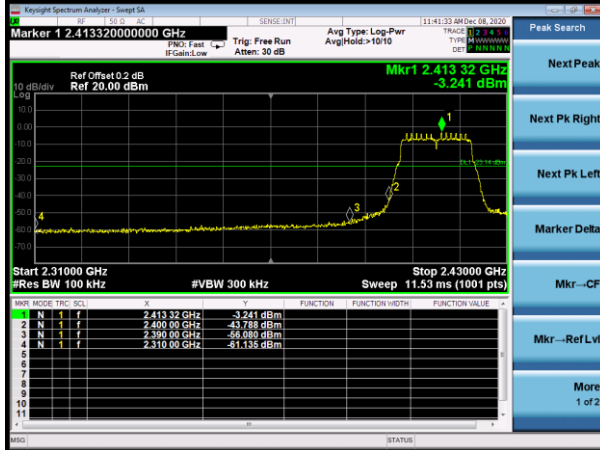
Lowest channel



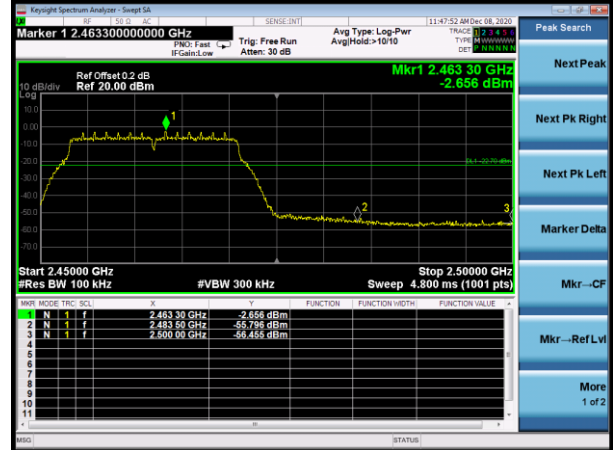
Highest channel

Test mode:

802.11n(HT20)



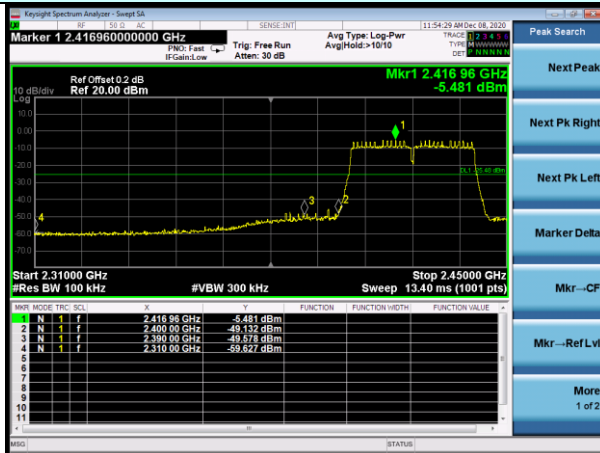
Lowest channel



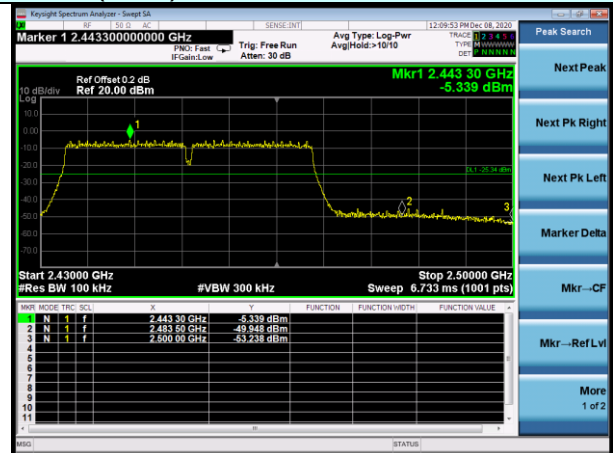
Highest channel

Test mode:

802.11n(HT40)



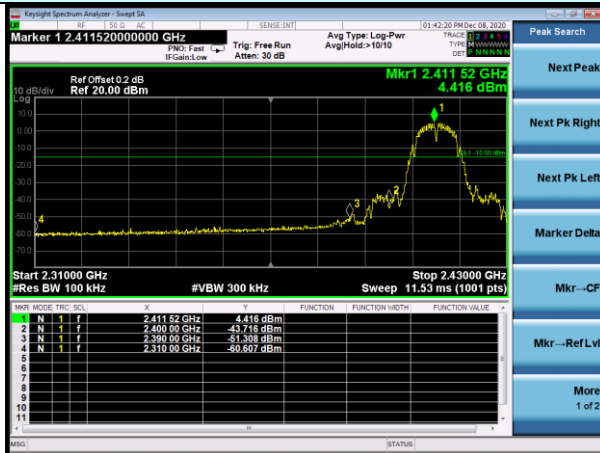
Lowest channel



Highest channel

## Antenna 2:

### Test mode: 802.11b

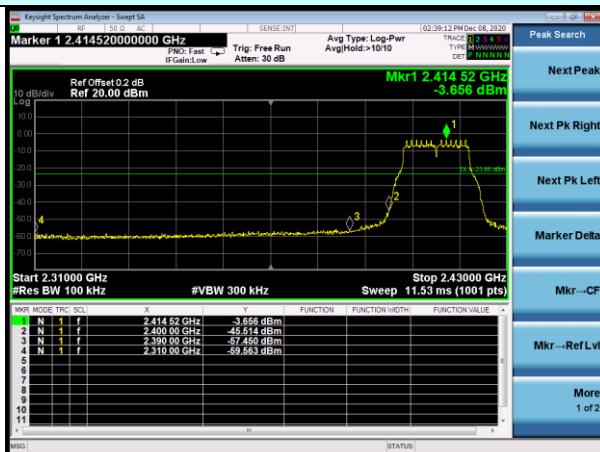


Lowest channel

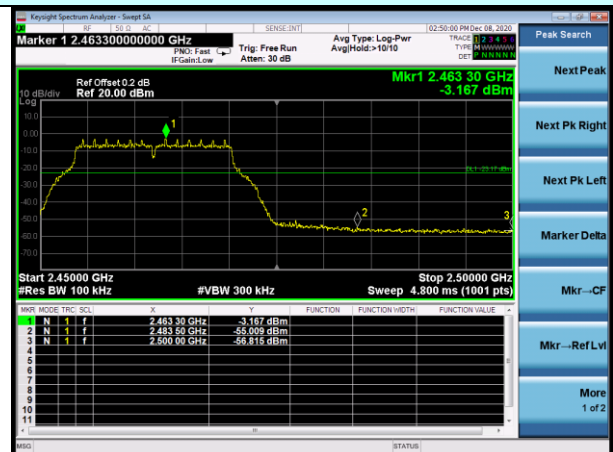


Highest channel

### Test mode: 802.11g



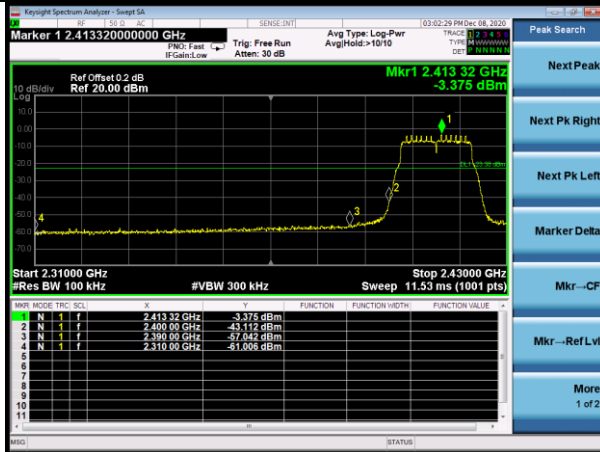
Lowest channel



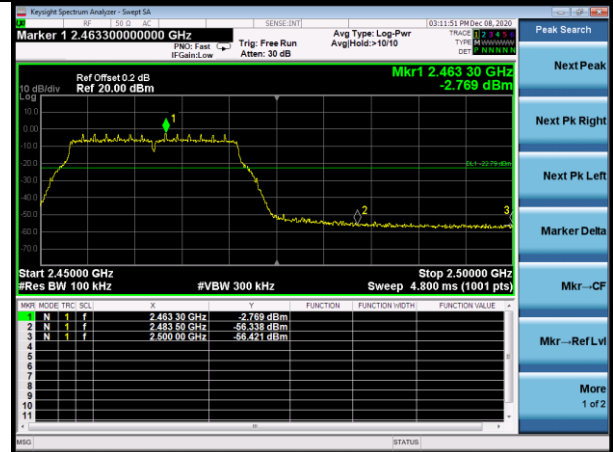
Highest channel

Test mode:

802.11n(HT20)



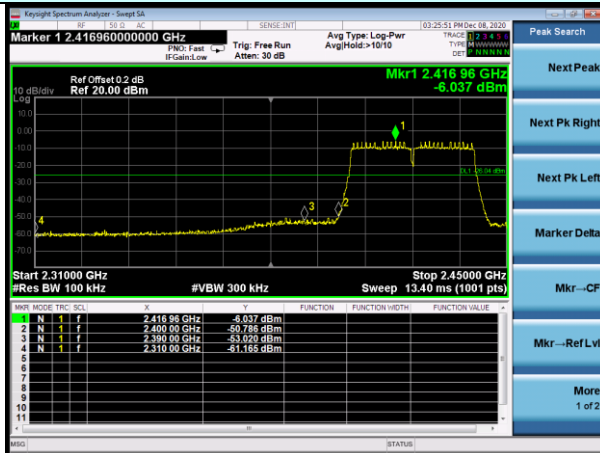
Lowest channel



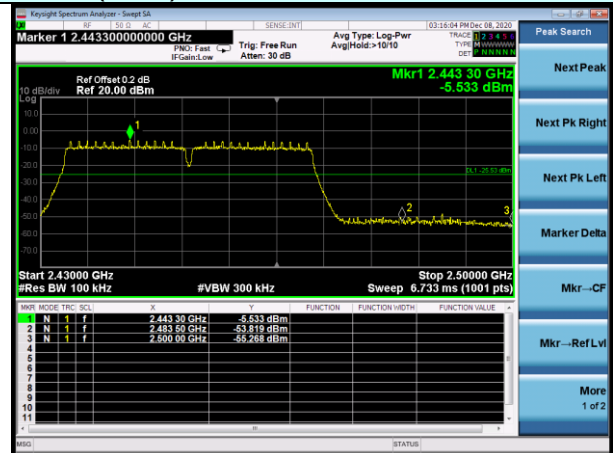
Highest channel

Test mode:

802.11n(HT40)

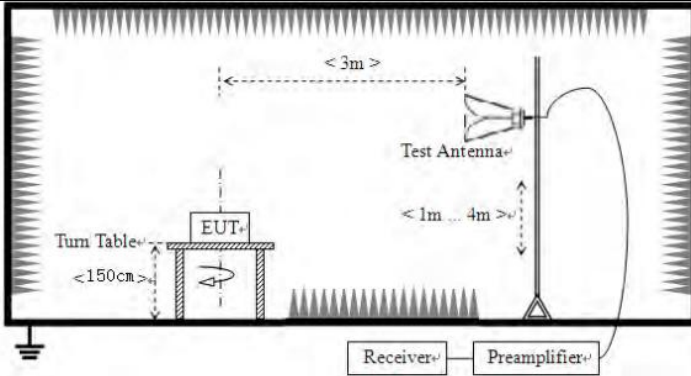


Lowest channel



Highest channel

## 7.6.2 Radiated Emission Method

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                    |      |         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|------|---------|
| Test Requirement:     | FCC Part15 C Section 15.209 and 15.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                    |      |         |
| Test Method:          | ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                    |      |         |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                    |      |         |
| Test site:            | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                    |      |         |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Detector | RBW                | VBW  | Value   |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Peak     | 1MHz               | 3MHz | Peak    |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Average  | 1MHz               | 3MHz | Average |
| Limit:                | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          | Limit (dBuV/m @3m) |      | Value   |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | 54.00              |      | Average |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | 74.00              |      | Peak    |
| Test setup:           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                    |      |         |
| Test Procedure:       | <ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li><li>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li></ol> |          |                    |      |         |
| Test Instruments:     | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                    |      |         |
| Test mode:            | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                    |      |         |
| Test results:         | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                    |      |         |

**Measurement data:**

All antennas have test, only the worst case ANT 1 report.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 53.02             | 27.59                 | 5.38            | 34.01                    | 51.98          | 74.00               | -22.02          | Horizontal   |
| 2400.00         | 61.74             | 27.58                 | 5.39            | 34.01                    | 60.70          | 74.00               | -13.30          | Horizontal   |
| 2390.00         | 54.88             | 27.59                 | 5.38            | 34.01                    | 53.84          | 74.00               | -20.16          | Vertical     |
| 2400.00         | 63.78             | 27.58                 | 5.39            | 34.01                    | 62.74          | 74.00               | -11.26          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 39.69             | 27.59                 | 5.38            | 34.01                    | 38.65          | 54.00               | -15.35          | Horizontal   |
| 2400.00         | 48.10             | 27.58                 | 5.39            | 34.01                    | 47.06          | 54.00               | -6.94           | Horizontal   |
| 2390.00         | 41.19             | 27.59                 | 5.38            | 34.01                    | 40.15          | 54.00               | -13.85          | Vertical     |
| 2400.00         | 49.30             | 27.58                 | 5.39            | 34.01                    | 48.26          | 54.00               | -5.74           | Vertical     |

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 53.43             | 27.53                 | 5.47            | 33.92                    | 52.51          | 74.00               | -21.49          | Horizontal   |
| 2500.00         | 49.55             | 27.55                 | 5.49            | 29.93                    | 52.66          | 74.00               | -21.34          | Horizontal   |
| 2483.50         | 55.78             | 27.53                 | 5.47            | 33.92                    | 54.86          | 74.00               | -19.14          | Vertical     |
| 2500.00         | 52.22             | 27.55                 | 5.49            | 29.93                    | 55.33          | 74.00               | -18.68          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 39.92             | 27.53                 | 5.47            | 33.92                    | 39.00          | 54.00               | -15.00          | Horizontal   |
| 2500.00         | 36.14             | 27.55                 | 5.49            | 29.93                    | 39.25          | 54.00               | -14.75          | Horizontal   |
| 2483.50         | 42.18             | 27.53                 | 5.47            | 33.92                    | 41.26          | 54.00               | -12.74          | Vertical     |
| 2500.00         | 37.80             | 27.55                 | 5.49            | 29.93                    | 40.91          | 54.00               | -13.09          | Vertical     |

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 51.20             | 27.59                 | 5.38            | 34.01                    | 50.16          | 74.00               | -23.84          | Horizontal   |
| 2400.00         | 60.11             | 27.58                 | 5.39            | 34.01                    | 59.07          | 74.00               | -14.93          | Horizontal   |
| 2390.00         | 53.29             | 27.59                 | 5.38            | 34.01                    | 52.25          | 74.00               | -21.75          | Vertical     |
| 2400.00         | 62.11             | 27.58                 | 5.39            | 34.01                    | 61.07          | 74.00               | -12.93          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 38.67             | 27.59                 | 5.38            | 34.01                    | 37.63          | 54.00               | -16.37          | Horizontal   |
| 2400.00         | 47.23             | 27.58                 | 5.39            | 34.01                    | 46.19          | 54.00               | -7.81           | Horizontal   |
| 2390.00         | 40.18             | 27.59                 | 5.38            | 34.01                    | 39.14          | 54.00               | -14.86          | Vertical     |
| 2400.00         | 47.45             | 27.58                 | 5.39            | 34.01                    | 46.41          | 54.00               | -7.59           | Vertical     |

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 51.26             | 27.53                 | 5.47            | 33.92                    | 50.34          | 74.00               | -23.66          | Horizontal   |
| 2500.00         | 47.71             | 27.55                 | 5.49            | 29.93                    | 50.82          | 74.00               | -23.18          | Horizontal   |
| 2483.50         | 53.32             | 27.53                 | 5.47            | 33.92                    | 52.40          | 74.00               | -21.60          | Vertical     |
| 2500.00         | 50.10             | 27.55                 | 5.49            | 29.93                    | 53.21          | 74.00               | -20.79          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 38.49             | 27.53                 | 5.47            | 33.92                    | 37.57          | 54.00               | -16.43          | Horizontal   |
| 2500.00         | 34.91             | 27.55                 | 5.49            | 29.93                    | 38.02          | 54.00               | -15.98          | Horizontal   |
| 2483.50         | 40.55             | 27.53                 | 5.47            | 33.92                    | 39.63          | 54.00               | -14.37          | Vertical     |
| 2500.00         | 36.59             | 27.55                 | 5.49            | 29.93                    | 39.70          | 54.00               | -14.30          | Vertical     |

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 51.08             | 27.59                 | 5.38            | 34.01                    | 50.04          | 74.00               | -23.96          | Horizontal   |
| 2400.00         | 59.95             | 27.58                 | 5.39            | 34.01                    | 58.91          | 74.00               | -15.09          | Horizontal   |
| 2390.00         | 53.14             | 27.59                 | 5.38            | 34.01                    | 52.10          | 74.00               | -21.90          | Vertical     |
| 2400.00         | 61.88             | 27.58                 | 5.39            | 34.01                    | 60.84          | 74.00               | -13.16          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 38.53             | 27.59                 | 5.38            | 34.01                    | 37.49          | 54.00               | -16.51          | Horizontal   |
| 2400.00         | 47.06             | 27.58                 | 5.39            | 34.01                    | 46.02          | 54.00               | -7.98           | Horizontal   |
| 2390.00         | 40.06             | 27.59                 | 5.38            | 34.01                    | 39.02          | 54.00               | -14.98          | Vertical     |
| 2400.00         | 47.34             | 27.58                 | 5.39            | 34.01                    | 46.30          | 54.00               | -7.70           | Vertical     |

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT20) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 51.12             | 27.53                 | 5.47            | 33.92                    | 50.20          | 74.00               | -23.80          | Horizontal   |
| 2500.00         | 47.58             | 27.55                 | 5.49            | 29.93                    | 50.69          | 74.00               | -23.31          | Horizontal   |
| 2483.50         | 53.17             | 27.53                 | 5.47            | 33.92                    | 52.25          | 74.00               | -21.75          | Vertical     |
| 2500.00         | 49.94             | 27.55                 | 5.49            | 29.93                    | 53.05          | 74.00               | -20.95          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 38.37             | 27.53                 | 5.47            | 33.92                    | 37.45          | 54.00               | -16.55          | Horizontal   |
| 2500.00         | 34.81             | 27.55                 | 5.49            | 29.93                    | 37.92          | 54.00               | -16.08          | Horizontal   |
| 2483.50         | 40.41             | 27.53                 | 5.47            | 33.92                    | 39.49          | 54.00               | -14.51          | Vertical     |
| 2500.00         | 36.49             | 27.55                 | 5.49            | 29.93                    | 39.60          | 54.00               | -14.40          | Vertical     |

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 50.41             | 27.59                 | 5.38            | 34.01                    | 49.37          | 74.00               | -24.63          | Horizontal   |
| 2400.00         | 59.08             | 27.58                 | 5.39            | 34.01                    | 58.04          | 74.00               | -15.96          | Horizontal   |
| 2390.00         | 52.53             | 27.59                 | 5.38            | 34.01                    | 51.49          | 74.00               | -22.51          | Vertical     |
| 2400.00         | 60.91             | 27.58                 | 5.39            | 34.01                    | 59.87          | 74.00               | -14.13          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 38.20             | 27.59                 | 5.38            | 34.01                    | 37.16          | 54.00               | -16.84          | Horizontal   |
| 2400.00         | 46.73             | 27.58                 | 5.39            | 34.01                    | 45.69          | 54.00               | -8.31           | Horizontal   |
| 2390.00         | 39.60             | 27.59                 | 5.38            | 34.01                    | 38.56          | 54.00               | -15.44          | Vertical     |
| 2400.00         | 46.75             | 27.58                 | 5.39            | 34.01                    | 45.71          | 54.00               | -8.29           | Vertical     |

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT40) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 50.08             | 27.53                 | 5.47            | 33.92                    | 49.16          | 74.00               | -24.84          | Horizontal   |
| 2500.00         | 46.86             | 27.55                 | 5.49            | 29.93                    | 49.97          | 74.00               | -24.03          | Horizontal   |
| 2483.50         | 51.96             | 27.53                 | 5.47            | 33.92                    | 51.04          | 74.00               | -22.96          | Vertical     |
| 2500.00         | 49.09             | 27.55                 | 5.49            | 29.93                    | 52.20          | 74.00               | -21.80          | Vertical     |

**Average value:**

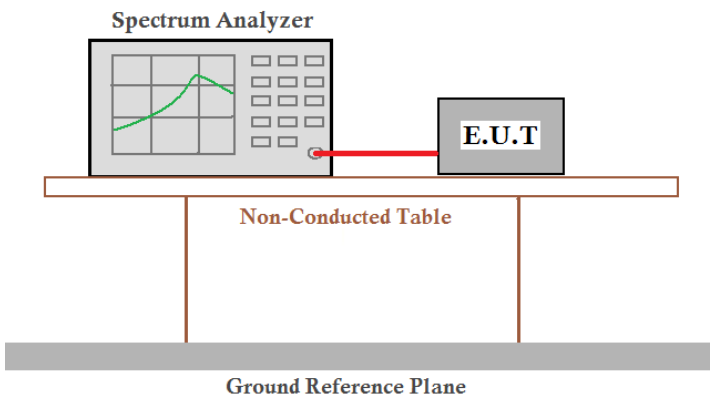
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 37.82             | 27.53                 | 5.47            | 33.92                    | 36.90          | 54.00               | -17.10          | Horizontal   |
| 2500.00         | 34.44             | 27.55                 | 5.49            | 29.93                    | 37.55          | 54.00               | -16.45          | Horizontal   |
| 2483.50         | 39.84             | 27.53                 | 5.47            | 33.92                    | 38.92          | 54.00               | -15.08          | Vertical     |
| 2500.00         | 36.05             | 27.55                 | 5.49            | 29.93                    | 39.16          | 54.00               | -14.84          | Vertical     |

**Remarks:**

- Only the worst case Main Antenna test data.
- The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7.7 Spurious Emission

### 7.7.1 Conducted Emission Method

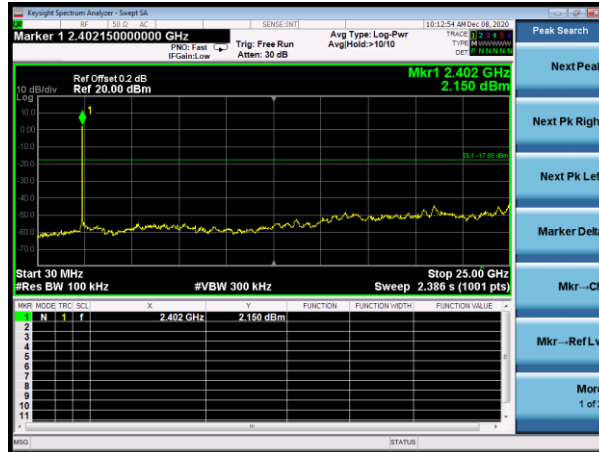
|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                           |
| Test Method:      | KDB558074 D01 DTS Meas Guidance v05or02<br>KDB 662911 D01 Multiple Transmitter Output v02r01                                                                                                                                                                                                                                                                                              |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.   |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                          |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                          |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                      |

Test plot as follows:

Antenna 1:

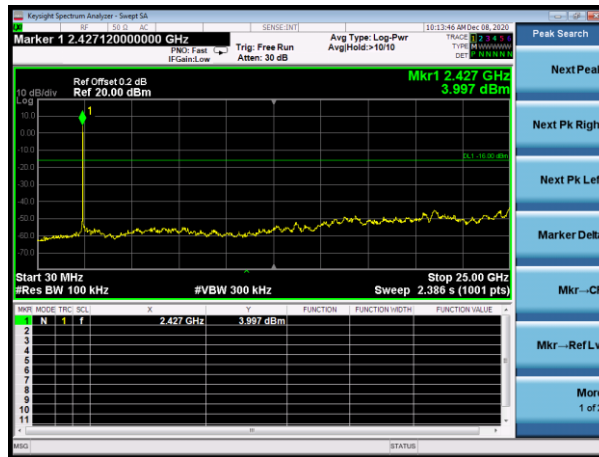
802.11b

Lowest channel



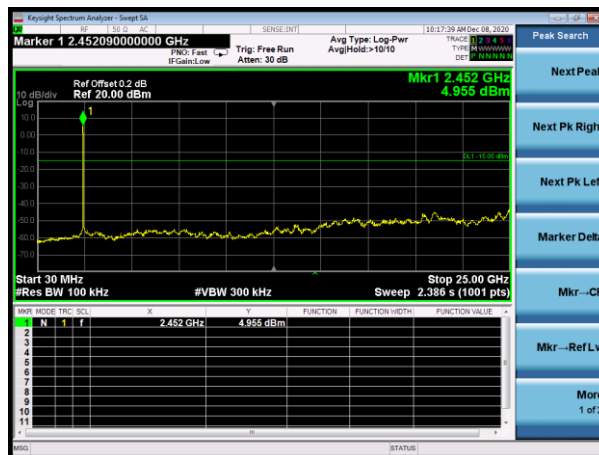
30MHz~25GHz

Middle channel



30MHz~25GHz

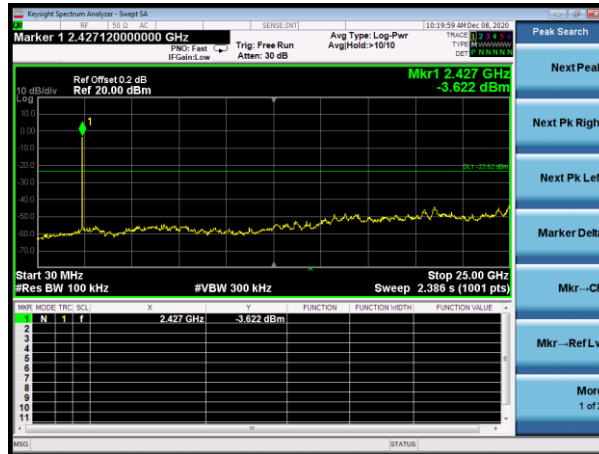
Highest channel



30MHz~25GHz

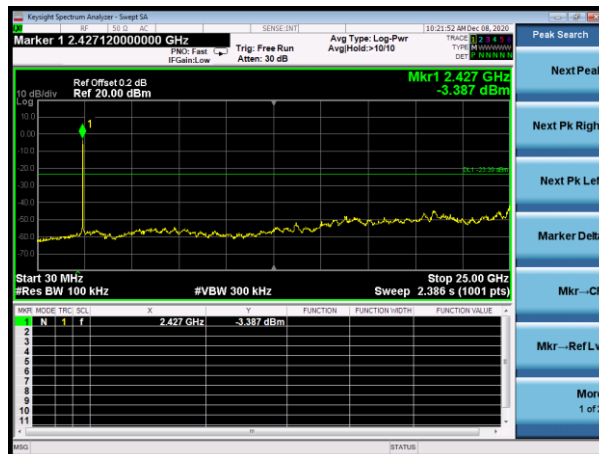
802.11g

Lowest channel



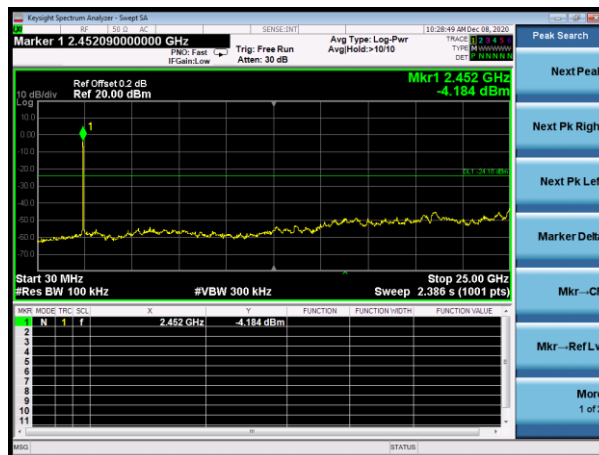
30MHz~25GHz

Middle channel



30MHz~25GHz

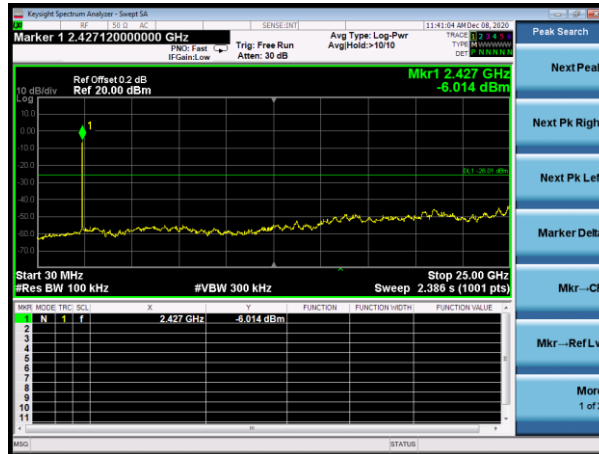
Highest channel



30MHz~25GHz

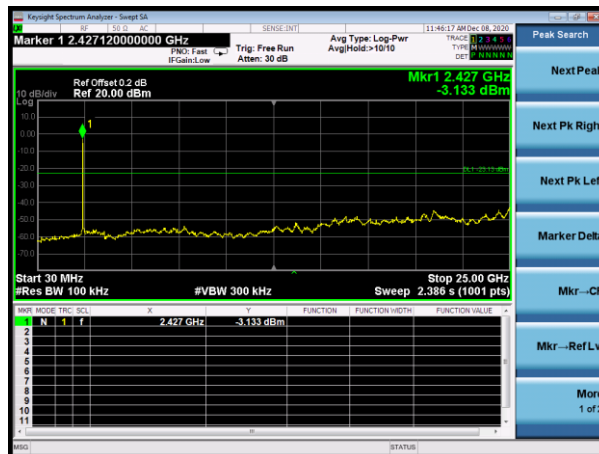
## 802.11n(HT20)

Lowest channel



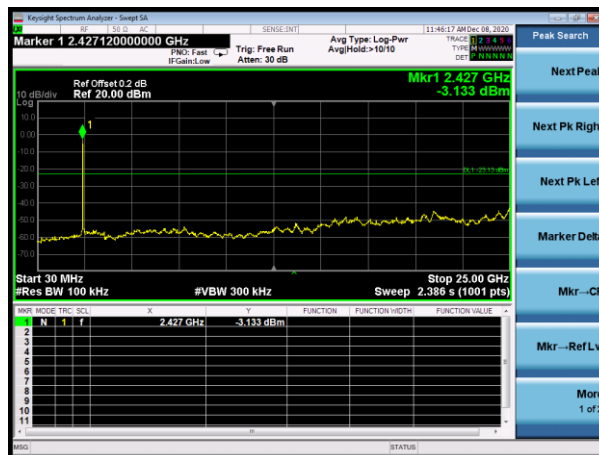
30MHz~25GHz

Middle channel



30MHz~25GHz

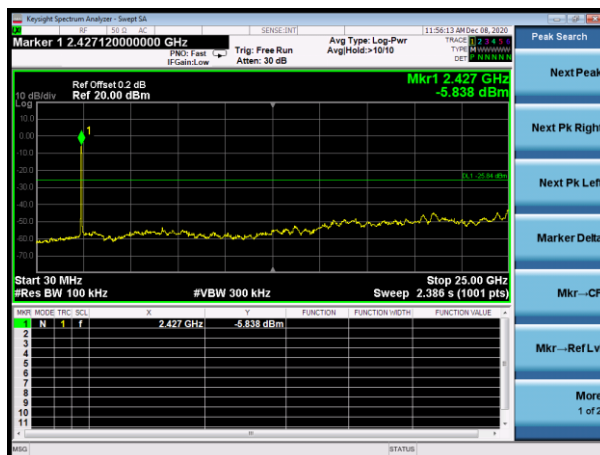
Highest channel



30MHz~25GHz

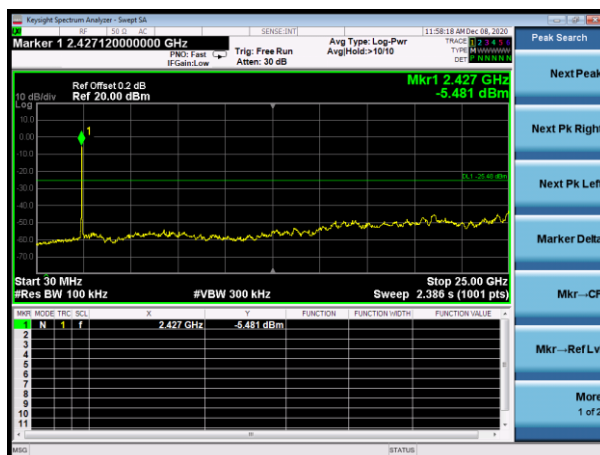
## 802.11n(HT40)

Lowest channel



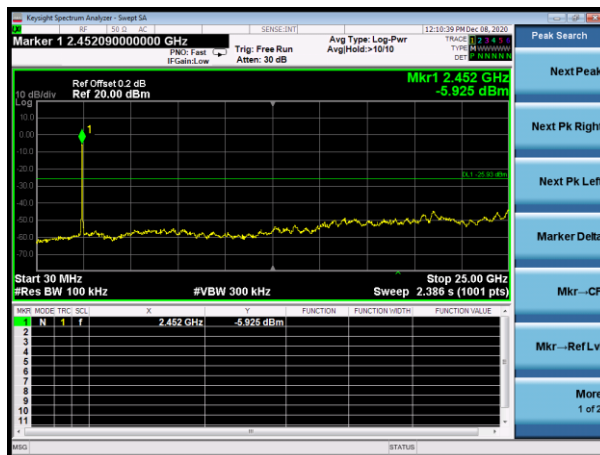
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

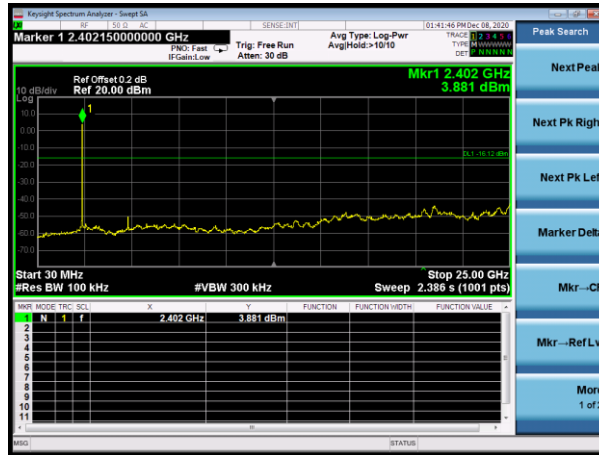


30MHz~25GHz

## Antenna 2:

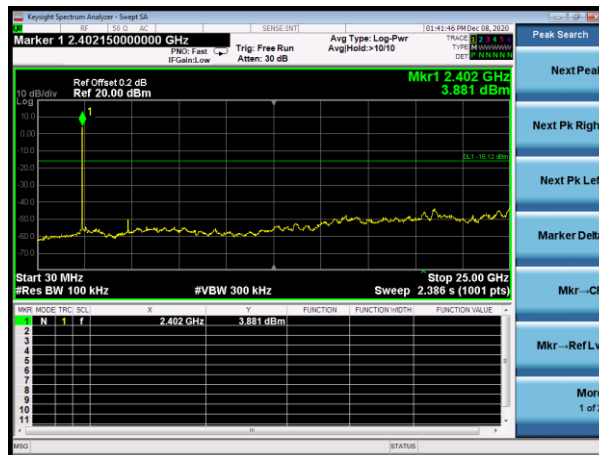
802.11b

Lowest channel



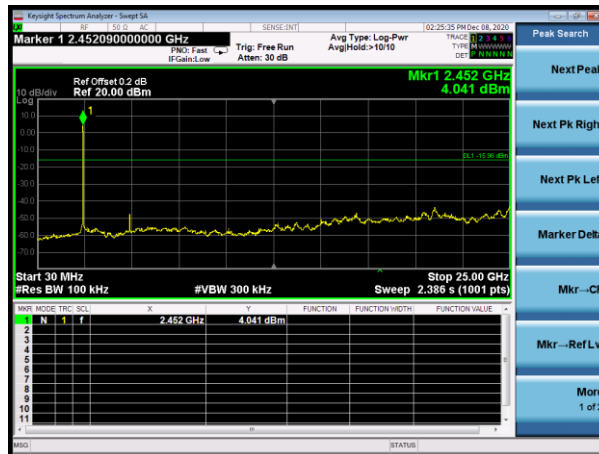
30MHz~25GHz

Middle channel



30MHz~25GHz

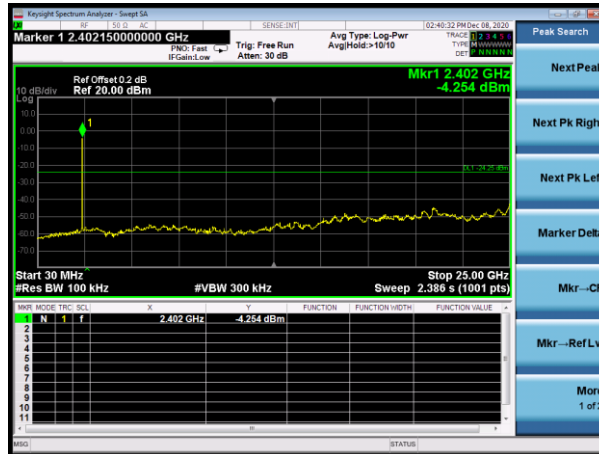
Highest channel



30MHz~25GHz

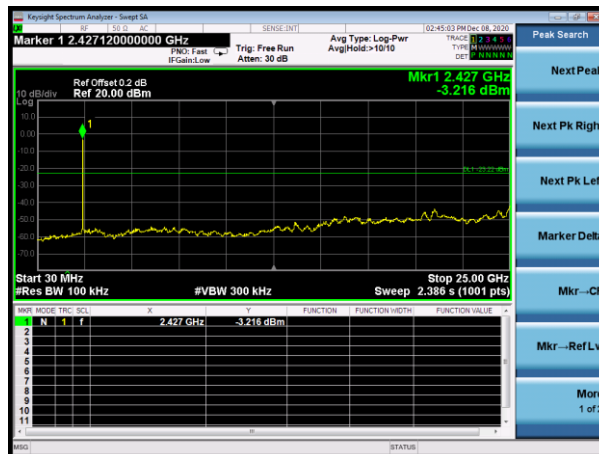
802.11g

Lowest channel



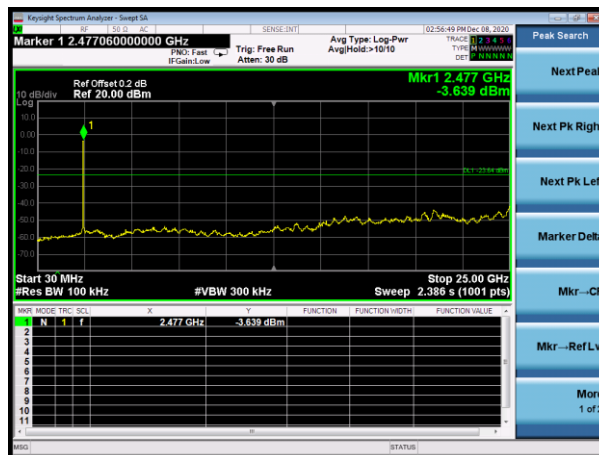
30MHz~25GHz

Middle channel



30MHz~25GHz

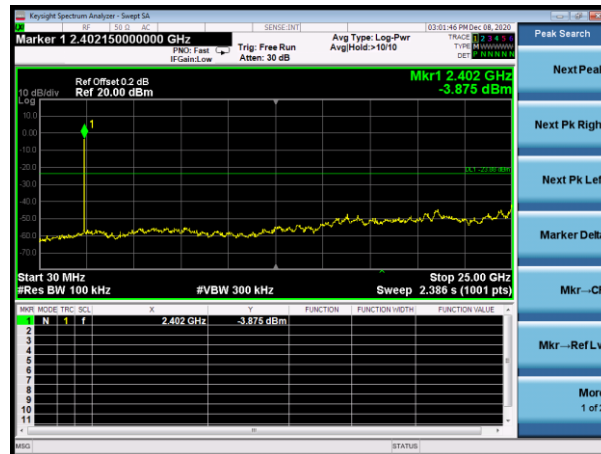
Highest channel



30MHz~25GHz

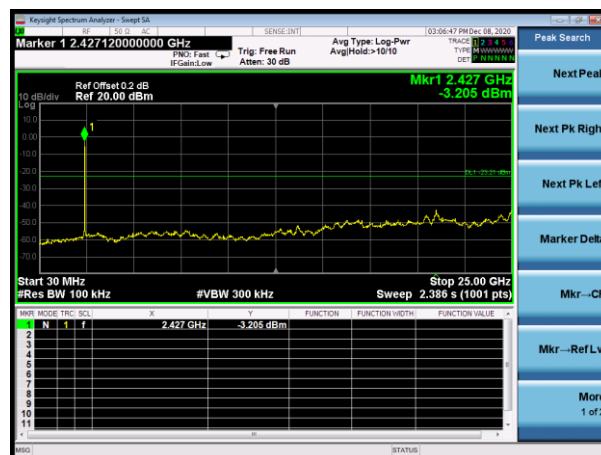
## 802.11n(HT20)

Lowest channel



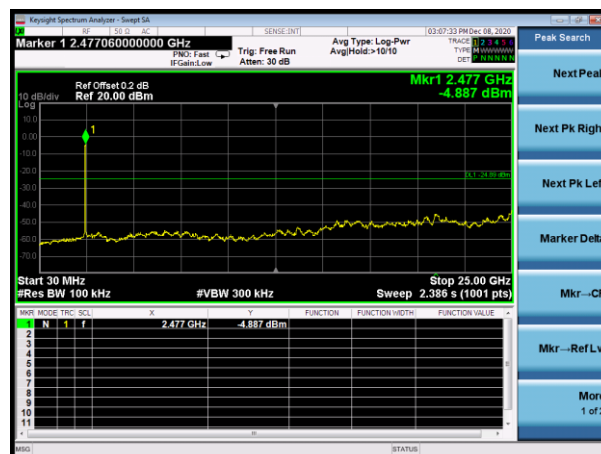
30MHz~25GHz

Middle channel



30MHz~25GHz

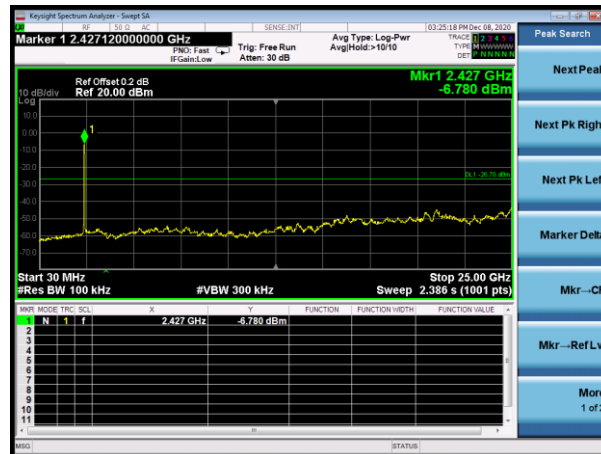
Highest channel



30MHz~25GHz

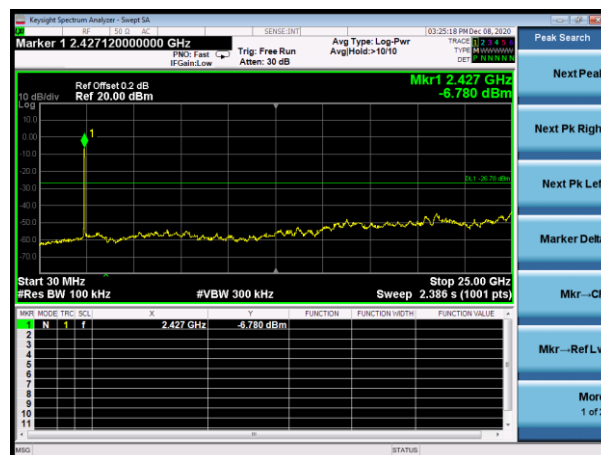
## 802.11n(HT40)

Lowest channel



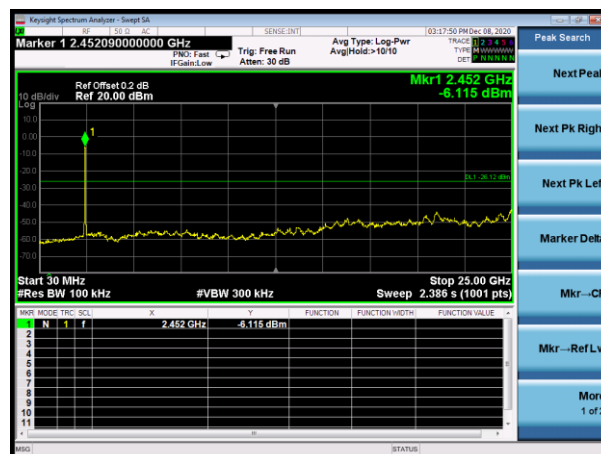
30MHz~25GHz

Middle channel



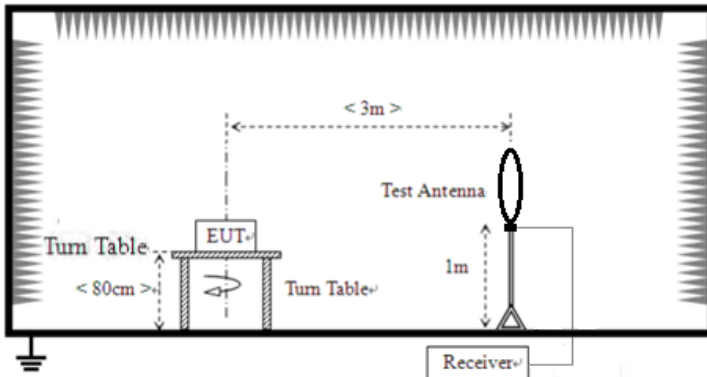
30MHz~25GHz

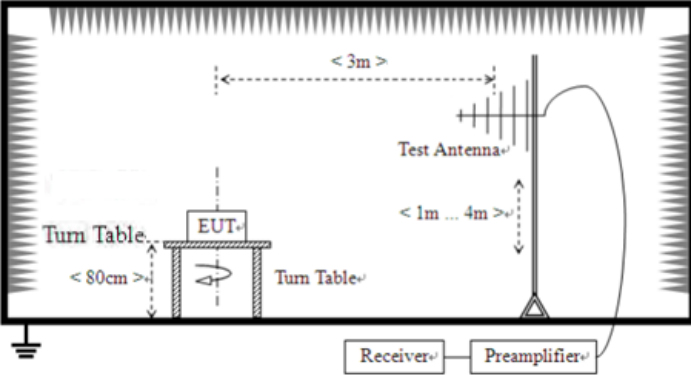
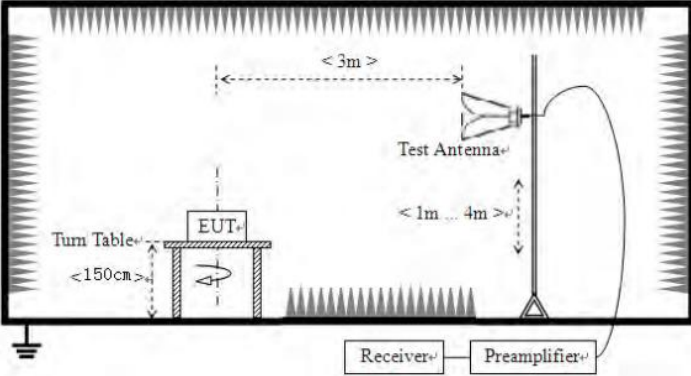
Highest channel



30MHz~25GHz

## 7.7.2 Radiated Emission Method

|                       |                                                                                                 |              |        |         |                      |
|-----------------------|-------------------------------------------------------------------------------------------------|--------------|--------|---------|----------------------|
| Test Requirement:     | FCC Part15 C Section 15.209                                                                     |              |        |         |                      |
| Test Method:          | ANSI C63.10: 2013                                                                               |              |        |         |                      |
| Test Frequency Range: | 9kHz to 25GHz                                                                                   |              |        |         |                      |
| Test site:            | Measurement Distance: 3m                                                                        |              |        |         |                      |
| Receiver setup:       | Frequency                                                                                       | Detector     | RBW    | VBW     | Value                |
|                       | 9KHz-150KHz                                                                                     | Quasi-peak   | 200Hz  | 600Hz   | Quasi-peak           |
|                       | 150KHz-30MHz                                                                                    | Quasi-peak   | 9KHz   | 30KHz   | Quasi-peak           |
|                       | 30MHz-1GHz                                                                                      | Quasi-peak   | 120KHz | 300KHz  | Quasi-peak           |
|                       | Above 1GHz                                                                                      | Peak         | 1MHz   | 3MHz    | Peak                 |
|                       |                                                                                                 | Peak         | 1MHz   | 10Hz    | Average              |
| Limit:                | Frequency                                                                                       | Limit (uV/m) |        | Value   | Measurement Distance |
|                       | 0.009MHz-0.490MHz                                                                               | 2400/F(KHz)  |        | QP      | 300m                 |
|                       | 0.490MHz-1.705MHz                                                                               | 24000/F(KHz) |        | QP      | 300m                 |
|                       | 1.705MHz-30MHz                                                                                  | 30           |        | QP      | 30m                  |
|                       | 30MHz-88MHz                                                                                     | 100          |        | QP      | 3m                   |
|                       | 88MHz-216MHz                                                                                    | 150          |        | QP      |                      |
|                       | 216MHz-960MHz                                                                                   | 200          |        | QP      |                      |
|                       | 960MHz-1GHz                                                                                     | 500          |        | QP      |                      |
|                       | Above 1GHz                                                                                      | 500          |        | Average |                      |
|                       |                                                                                                 | 5000         |        | Peak    |                      |
| Test setup:           | For radiated emissions from 9kHz to 30MHz                                                       |              |        |         |                      |
|                       | <div></div> |              |        |         |                      |
|                       | For radiated emissions from 30MHz to 1GHz                                                       |              |        |         |                      |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |  <p>For radiated emissions above 1GHz</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>Test Procedure:</p>   | <ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol> |
| <p>Test Instruments:</p> | <p>Refer to section 6.0 for details</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                   |                                  |       |         |     |         |          |
|-------------------|----------------------------------|-------|---------|-----|---------|----------|
| Test mode:        | Refer to section 5.2 for details |       |         |     |         |          |
| Test voltage:     | AC120V 60Hz                      |       |         |     |         |          |
| Test environment: | Temp.:                           | 25 °C | Humid.: | 52% | Press.: | 1012mbar |
| Test voltage:     | AC 120V, 60Hz                    |       |         |     |         |          |
| Test results:     | Pass                             |       |         |     |         |          |

**Remarks:**

1. Only the worst case Main Antenna test data.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

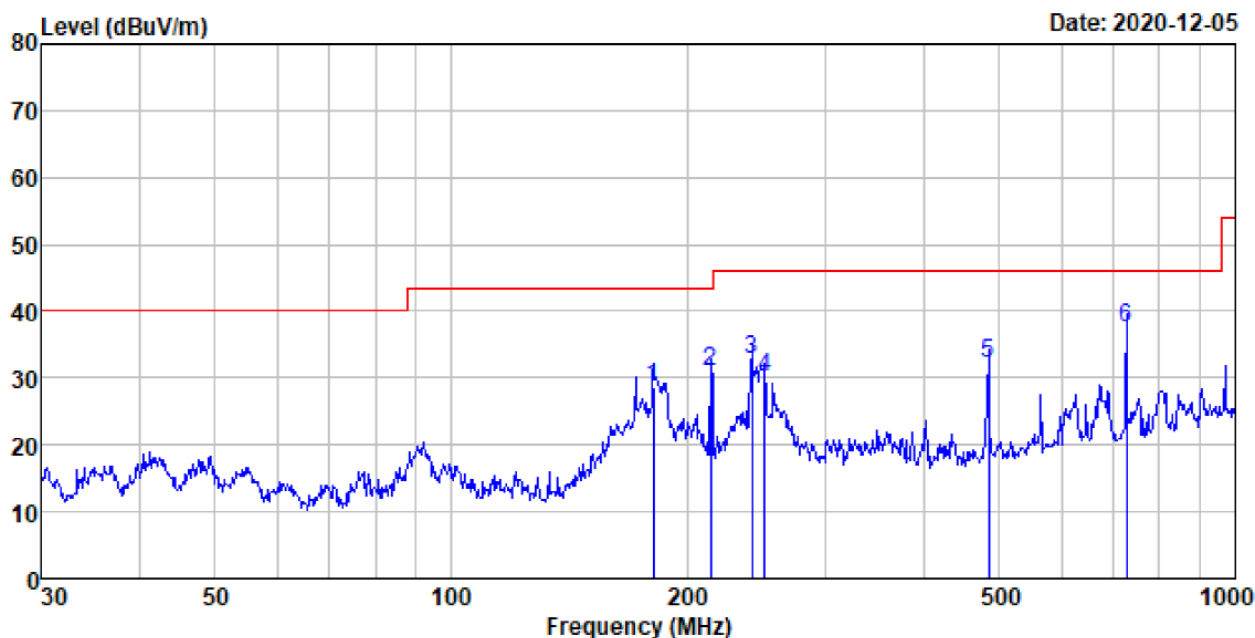
**Measurement data:****■ 9kHz~30MHz**

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

## ■ Below 1GHz

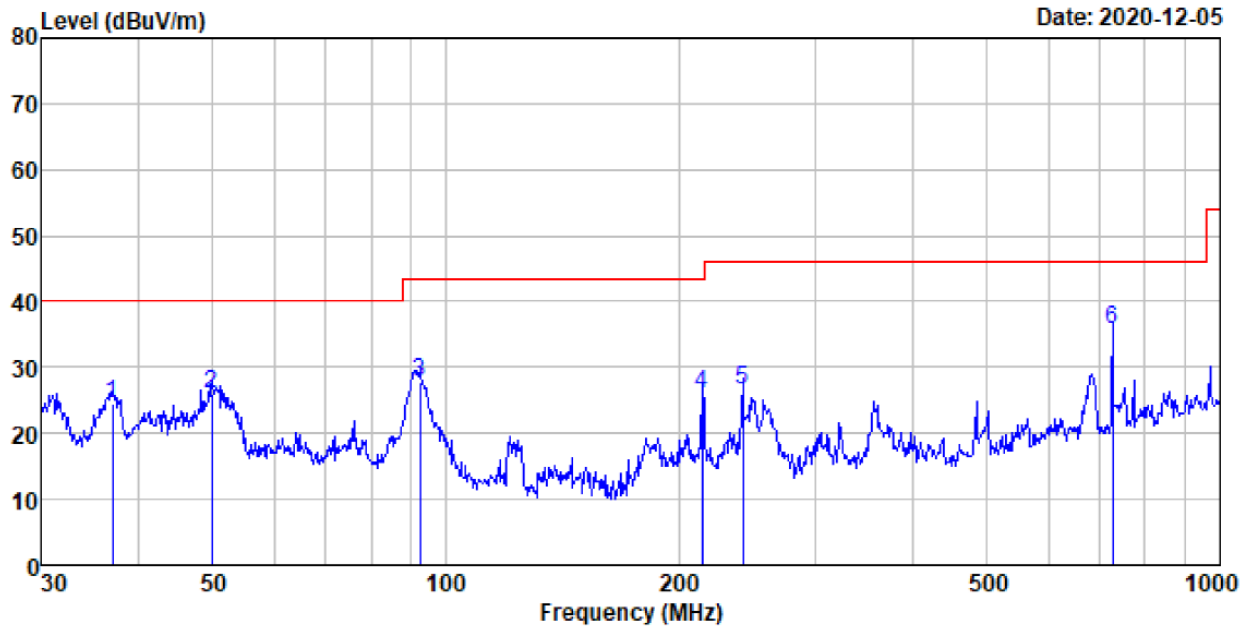
Pre-scan all test modes, found worst case at 802.11b 2462MHz, and so only show the test result of 802.11b 2462MHz.

### Horizontal:



|   | Freq    | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|---------|------------|----------------|---------------|------------|-------|------------|------------|--------|
|   | MHz     | dBm        | dB/m           | dB            | dB         | dBm/m | dBm/m      | dB         |        |
| 1 | 181.283 | 54.02      | 9.97           | 37.24         | 1.75       | 28.50 | 43.50      | -15.00     | QP     |
| 2 | 214.514 | 54.52      | 11.78          | 37.35         | 1.93       | 30.88 | 43.50      | -12.62     | QP     |
| 3 | 241.676 | 55.50      | 12.48          | 37.37         | 2.08       | 32.69 | 46.00      | -13.31     | QP     |
| 4 | 251.180 | 52.65      | 12.73          | 37.38         | 2.13       | 30.13 | 46.00      | -15.87     | QP     |
| 5 | 483.910 | 49.32      | 17.11          | 37.51         | 3.23       | 32.15 | 46.00      | -13.85     | QP     |
| 6 | 726.805 | 50.74      | 20.27          | 37.63         | 4.19       | 37.57 | 46.00      | -8.43      | QP     |

Vertical:



|       | Read    | Antenna | Preamp | Cable |       | Limit | Over  |           |
|-------|---------|---------|--------|-------|-------|-------|-------|-----------|
| Freq  | Level   | Factor  | Factor | Loss  | Level | Line  | Limit | Remark    |
| ----- | -----   | -----   | -----  | ----- | ----- | ----- | ----- | -----     |
| MHz   | dBm     | dB/m    | dB     | dB    | dBm/m | dBm/m | dB    |           |
| 1     | 37.155  | 47.92   | 11.53  | 35.49 | 0.63  | 24.59 | 40.00 | -15.41 QP |
| 2     | 49.881  | 48.25   | 13.19  | 36.17 | 0.77  | 26.04 | 40.00 | -13.96 QP |
| 3     | 92.462  | 52.14   | 11.10  | 36.66 | 1.13  | 27.71 | 43.50 | -15.79 QP |
| 4     | 214.514 | 49.49   | 11.78  | 37.35 | 1.93  | 25.85 | 43.50 | -17.65 QP |
| 5     | 241.676 | 49.27   | 12.48  | 37.37 | 2.08  | 26.46 | 46.00 | -19.54 QP |
| 6     | 726.805 | 48.83   | 20.27  | 37.63 | 4.19  | 35.66 | 46.00 | -10.34 QP |

## ■ Above 1GHz

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

### Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 42.20             | 31.78                 | 8.60            | 32.09              | 50.49          | 74.00               | -23.51          | Vertical     |
| 7236.00         | 35.71             | 36.15                 | 11.65           | 32.00              | 51.51          | 74.00               | -22.49          | Vertical     |
| 9648.00         | 34.63             | 37.95                 | 14.14           | 31.62              | 55.10          | 74.00               | -18.90          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4824.00         | 40.67             | 31.78                 | 8.60            | 32.09              | 48.96          | 74.00               | -25.04          | Horizontal   |
| 7236.00         | 35.97             | 36.15                 | 11.65           | 32.00              | 51.77          | 74.00               | -22.23          | Horizontal   |
| 9648.00         | 33.10             | 37.95                 | 14.14           | 31.62              | 53.57          | 74.00               | -20.43          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

### Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 31.25             | 31.78                 | 8.60            | 32.09              | 39.54          | 54.00               | -14.46          | Vertical     |
| 7236.00         | 24.57             | 36.15                 | 11.65           | 32.00              | 40.37          | 54.00               | -13.63          | Vertical     |
| 9648.00         | 24.97             | 37.95                 | 14.14           | 31.62              | 45.44          | 54.00               | -8.56           | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4824.00         | 30.18             | 31.78                 | 8.60            | 32.09              | 38.47          | 54.00               | -15.53          | Horizontal   |
| 7236.00         | 24.54             | 36.15                 | 11.65           | 32.00              | 40.34          | 54.00               | -13.66          | Horizontal   |
| 9648.00         | 22.84             | 37.95                 | 14.14           | 31.62              | 43.31          | 54.00               | -10.69          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

### Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 41.18             | 31.85                 | 8.67            | 32.12              | 49.58          | 74.00               | -24.42          | Vertical     |
| 7311.00         | 35.74             | 36.37                 | 11.72           | 31.89              | 51.94          | 74.00               | -22.06          | Vertical     |
| 9748.00         | 35.61             | 38.35                 | 14.25           | 31.62              | 56.59          | 74.00               | -17.41          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4874.00         | 41.47             | 31.85                 | 8.67            | 32.12              | 49.87          | 74.00               | -24.13          | Horizontal   |
| 7311.00         | 34.89             | 36.37                 | 11.72           | 31.89              | 51.09          | 74.00               | -22.91          | Horizontal   |
| 9748.00         | 34.40             | 38.35                 | 14.25           | 31.62              | 55.38          | 74.00               | -18.62          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 32.00             | 31.85                 | 8.67            | 32.12              | 40.40          | 54.00               | -13.60          | Vertical     |
| 7311.00         | 24.04             | 36.37                 | 11.72           | 31.89              | 40.24          | 54.00               | -13.76          | Vertical     |
| 9748.00         | 24.86             | 38.35                 | 14.25           | 31.62              | 45.84          | 54.00               | -8.16           | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4874.00         | 31.57             | 31.85                 | 8.67            | 32.12              | 39.97          | 54.00               | -14.03          | Horizontal   |
| 7311.00         | 23.97             | 36.37                 | 11.72           | 31.89              | 40.17          | 54.00               | -13.83          | Horizontal   |
| 9748.00         | 24.11             | 38.35                 | 14.25           | 31.62              | 45.09          | 54.00               | -8.91           | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 46.97             | 31.93                 | 8.73            | 32.16              | 55.47          | 74.00               | -18.53          | Vertical     |
| 7416.00         | 36.58             | 36.59                 | 11.79           | 31.78              | 53.18          | 74.00               | -20.82          | Vertical     |
| 9888.00         | 39.03             | 38.81                 | 14.38           | 31.88              | 60.34          | 74.00               | -13.66          | Vertical     |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4944.00         | 46.05             | 31.93                 | 8.73            | 32.16              | 54.55          | 74.00               | -19.45          | Horizontal   |
| 7416.00         | 35.97             | 36.59                 | 11.79           | 31.78              | 52.57          | 74.00               | -21.43          | Horizontal   |
| 9888.00         | 34.09             | 38.81                 | 14.38           | 31.88              | 55.40          | 74.00               | -18.60          | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 37.83             | 31.93                 | 8.73            | 32.16              | 46.33          | 54.00               | -7.67           | Vertical     |
| 7416.00         | 26.48             | 36.59                 | 11.79           | 31.78              | 43.08          | 54.00               | -10.92          | Vertical     |
| 9888.00         | 27.52             | 38.81                 | 14.38           | 31.88              | 48.83          | 54.00               | -5.17           | Vertical     |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4944.00         | 36.38             | 31.93                 | 8.73            | 32.16              | 44.88          | 54.00               | -9.12           | Horizontal   |
| 7416.00         | 25.35             | 36.59                 | 11.79           | 31.78              | 41.95          | 54.00               | -12.05          | Horizontal   |
| 9888.00         | 23.34             | 38.81                 | 14.38           | 31.88              | 44.65          | 54.00               | -9.35           | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | lowest |
|------------|---------|---------------|--------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 41.52             | 31.78                 | 8.60            | 32.09              | 49.81          | 74.00               | -24.20          | Vertical     |
| 7236.00         | 35.22             | 36.15                 | 11.65           | 32.00              | 51.02          | 74.00               | -22.98          | Vertical     |
| 9648.00         | 34.09             | 37.95                 | 14.14           | 31.62              | 54.56          | 74.00               | -19.44          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4824.00         | 40.08             | 31.78                 | 8.60            | 32.09              | 48.37          | 74.00               | -25.63          | Horizontal   |
| 7236.00         | 35.39             | 36.15                 | 11.65           | 32.00              | 51.19          | 74.00               | -22.81          | Horizontal   |
| 9648.00         | 32.82             | 37.95                 | 14.14           | 31.62              | 53.29          | 74.00               | -20.72          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

## Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 30.60             | 31.78                 | 8.60            | 32.09              | 38.89          | 54.00               | -15.12          | Vertical     |
| 7236.00         | 24.09             | 36.15                 | 11.65           | 32.00              | 39.89          | 54.00               | -14.11          | Vertical     |
| 9648.00         | 24.44             | 37.95                 | 14.14           | 31.62              | 44.91          | 54.00               | -9.09           | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4824.00         | 29.61             | 31.78                 | 8.60            | 32.09              | 37.90          | 54.00               | -16.10          | Horizontal   |
| 7236.00         | 23.97             | 36.15                 | 11.65           | 32.00              | 39.77          | 54.00               | -14.23          | Horizontal   |
| 9648.00         | 22.57             | 37.95                 | 14.14           | 31.62              | 43.04          | 54.00               | -10.97          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 40.56             | 31.85                 | 8.67            | 32.12              | 48.96          | 74.00               | -25.05          | Vertical     |
| 7311.00         | 35.28             | 36.37                 | 11.72           | 31.89              | 51.48          | 74.00               | -22.52          | Vertical     |
| 9748.00         | 35.11             | 38.35                 | 14.25           | 31.62              | 56.09          | 74.00               | -17.91          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4874.00         | 40.93             | 31.85                 | 8.67            | 32.12              | 49.33          | 74.00               | -24.67          | Horizontal   |
| 7311.00         | 34.35             | 36.37                 | 11.72           | 31.89              | 50.55          | 74.00               | -23.45          | Horizontal   |
| 9748.00         | 34.14             | 38.35                 | 14.25           | 31.62              | 55.12          | 74.00               | -18.89          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 31.41             | 31.85                 | 8.67            | 32.12              | 39.81          | 54.00               | -14.20          | Vertical     |
| 7311.00         | 23.60             | 36.37                 | 11.72           | 31.89              | 39.80          | 54.00               | -14.20          | Vertical     |
| 9748.00         | 24.36             | 38.35                 | 14.25           | 31.62              | 45.34          | 54.00               | -8.66           | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4874.00         | 31.04             | 31.85                 | 8.67            | 32.12              | 39.44          | 54.00               | -14.56          | Horizontal   |
| 7311.00         | 23.44             | 36.37                 | 11.72           | 31.89              | 39.64          | 54.00               | -14.36          | Horizontal   |
| 9748.00         | 23.86             | 38.35                 | 14.25           | 31.62              | 44.84          | 54.00               | -9.17           | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 46.13             | 31.93                 | 8.73            | 32.16              | 54.63          | 74.00               | -19.38          | Vertical     |
| 7416.00         | 35.98             | 36.59                 | 11.79           | 31.78              | 52.58          | 74.00               | -21.42          | Vertical     |
| 9888.00         | 38.42             | 38.81                 | 14.38           | 31.88              | 59.73          | 74.00               | -14.27          | Vertical     |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4944.00         | 45.32             | 31.93                 | 8.73            | 32.16              | 53.82          | 74.00               | -20.18          | Horizontal   |
| 7416.00         | 35.31             | 36.59                 | 11.79           | 31.78              | 51.91          | 74.00               | -22.09          | Horizontal   |
| 9888.00         | 33.74             | 38.81                 | 14.38           | 31.88              | 55.05          | 74.00               | -18.96          | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 37.04             | 31.93                 | 8.73            | 32.16              | 45.54          | 54.00               | -8.46           | Vertical     |
| 7416.00         | 25.90             | 36.59                 | 11.79           | 31.78              | 42.50          | 54.00               | -11.50          | Vertical     |
| 9888.00         | 26.92             | 38.81                 | 14.38           | 31.88              | 48.23          | 54.00               | -5.77           | Vertical     |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4944.00         | 35.68             | 31.93                 | 8.73            | 32.16              | 44.18          | 54.00               | -9.82           | Horizontal   |
| 7416.00         | 24.69             | 36.59                 | 11.79           | 31.78              | 41.29          | 54.00               | -12.71          | Horizontal   |
| 9888.00         | 23.00             | 38.81                 | 14.38           | 31.88              | 44.31          | 54.00               | -9.69           | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“\*” means this data is too weak instrument of signal is unable to test.*

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 41.21             | 31.78                 | 8.60            | 32.09              | 49.50          | 74.00               | -24.51          | Vertical     |
| 7236.00         | 34.99             | 36.15                 | 11.65           | 32.00              | 50.79          | 74.00               | -23.21          | Vertical     |
| 9648.00         | 33.86             | 37.95                 | 14.14           | 31.62              | 54.33          | 74.00               | -19.67          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4824.00         | 39.80             | 31.78                 | 8.60            | 32.09              | 48.09          | 74.00               | -25.91          | Horizontal   |
| 7236.00         | 35.13             | 36.15                 | 11.65           | 32.00              | 50.93          | 74.00               | -23.07          | Horizontal   |
| 9648.00         | 32.69             | 37.95                 | 14.14           | 31.62              | 53.16          | 74.00               | -20.85          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

## Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 30.30             | 31.78                 | 8.60            | 32.09              | 38.59          | 54.00               | -15.42          | Vertical     |
| 7236.00         | 23.86             | 36.15                 | 11.65           | 32.00              | 39.66          | 54.00               | -14.34          | Vertical     |
| 9648.00         | 24.21             | 37.95                 | 14.14           | 31.62              | 44.68          | 54.00               | -9.32           | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4824.00         | 29.35             | 31.78                 | 8.60            | 32.09              | 37.64          | 54.00               | -16.36          | Horizontal   |
| 7236.00         | 23.71             | 36.15                 | 11.65           | 32.00              | 39.51          | 54.00               | -14.49          | Horizontal   |
| 9648.00         | 22.44             | 37.95                 | 14.14           | 31.62              | 42.91          | 54.00               | -11.10          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

## Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Middle |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 40.28             | 31.85                 | 8.67            | 32.12                    | 48.68          | 74.00               | -25.33          | Vertical     |
| 7311.00         | 35.08             | 36.37                 | 11.72           | 31.89                    | 51.28          | 74.00               | -22.72          | Vertical     |
| 9748.00         | 34.88             | 38.35                 | 14.25           | 31.62                    | 55.86          | 74.00               | -18.14          | Vertical     |
| 12185.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 4874.00         | 40.69             | 31.85                 | 8.67            | 32.12                    | 49.09          | 74.00               | -24.91          | Horizontal   |
| 7311.00         | 34.10             | 36.37                 | 11.72           | 31.89                    | 50.30          | 74.00               | -23.70          | Horizontal   |
| 9748.00         | 34.03             | 38.35                 | 14.25           | 31.62                    | 55.01          | 74.00               | -19.00          | Horizontal   |
| 12185.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 31.14             | 31.85                 | 8.67            | 32.12                    | 39.54          | 54.00               | -14.47          | Vertical     |
| 7311.00         | 23.39             | 36.37                 | 11.72           | 31.89                    | 39.59          | 54.00               | -14.41          | Vertical     |
| 9748.00         | 24.14             | 38.35                 | 14.25           | 31.62                    | 45.12          | 54.00               | -8.88           | Vertical     |
| 12185.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 4874.00         | 30.80             | 31.85                 | 8.67            | 32.12                    | 39.20          | 54.00               | -14.80          | Horizontal   |
| 7311.00         | 23.19             | 36.37                 | 11.72           | 31.89                    | 39.39          | 54.00               | -14.61          | Horizontal   |
| 9748.00         | 23.74             | 38.35                 | 14.25           | 31.62                    | 44.72          | 54.00               | -9.29           | Horizontal   |
| 12185.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |

**Remark:**

1. *Final Level* = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT20) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 45.75             | 31.93                 | 8.73            | 32.16              | 54.25          | 74.00               | -19.76          | 4924.00      |
| 7416.00         | 35.71             | 36.59                 | 11.79           | 31.78              | 52.31          | 74.00               | -21.69          | 7386.00      |
| 9888.00         | 38.15             | 38.81                 | 14.38           | 31.88              | 59.46          | 74.00               | -14.54          | 9848.00      |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4944.00         | 44.99             | 31.93                 | 8.73            | 32.16              | 53.49          | 74.00               | -20.51          | Horizontal   |
| 7416.00         | 35.00             | 36.59                 | 11.79           | 31.78              | 51.60          | 74.00               | -22.40          | Horizontal   |
| 9888.00         | 33.58             | 38.81                 | 14.38           | 31.88              | 54.89          | 74.00               | -19.12          | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 36.68             | 31.93                 | 8.73            | 32.16              | 45.18          | 54.00               | -8.83           | Vertical     |
| 7416.00         | 25.63             | 36.59                 | 11.79           | 31.78              | 42.23          | 54.00               | -11.77          | Vertical     |
| 9888.00         | 26.66             | 38.81                 | 14.38           | 31.88              | 47.97          | 54.00               | -6.03           | Vertical     |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4944.00         | 35.36             | 31.93                 | 8.73            | 32.16              | 43.86          | 54.00               | -10.14          | Horizontal   |
| 7416.00         | 24.40             | 36.59                 | 11.79           | 31.78              | 41.00          | 54.00               | -13.00          | Horizontal   |
| 9888.00         | 22.84             | 38.81                 | 14.38           | 31.88              | 44.15          | 54.00               | -9.86           | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

- 1 Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4844.00         | 40.61             | 31.78                 | 8.60            | 32.09              | 48.90          | 74.00               | -25.11          | Vertical     |
| 7266.00         | 34.59             | 36.15                 | 11.65           | 32.00              | 50.39          | 74.00               | -23.62          | Vertical     |
| 9688.00         | 33.49             | 37.95                 | 14.14           | 31.62              | 53.96          | 74.00               | -20.05          | Vertical     |
| 12110.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14532.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16954.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4844.00         | 39.29             | 31.78                 | 8.60            | 32.09              | 47.58          | 74.00               | -26.42          | Horizontal   |
| 7266.00         | 34.71             | 36.15                 | 11.65           | 32.00              | 50.51          | 74.00               | -23.49          | Horizontal   |
| 9688.00         | 32.44             | 37.95                 | 14.14           | 31.62              | 52.91          | 74.00               | -21.10          | Horizontal   |
| 12110.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14532.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16954.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

## Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4844.00         | 29.74             | 31.78                 | 8.60            | 32.09              | 38.03          | 54.00               | -15.98          | Vertical     |
| 7266.00         | 23.47             | 36.15                 | 11.65           | 32.00              | 39.27          | 54.00               | -14.74          | Vertical     |
| 9688.00         | 23.85             | 37.95                 | 14.14           | 31.62              | 44.32          | 54.00               | -9.69           | Vertical     |
| 12110.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14532.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16954.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4844.00         | 28.86             | 31.78                 | 8.60            | 32.09              | 37.15          | 54.00               | -16.85          | Horizontal   |
| 7266.00         | 23.30             | 36.15                 | 11.65           | 32.00              | 39.10          | 54.00               | -14.90          | Horizontal   |
| 9688.00         | 22.20             | 37.95                 | 14.14           | 31.62              | 42.67          | 54.00               | -11.34          | Horizontal   |
| 12110.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14532.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16954.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

## Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Middle |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 39.77             | 31.85                 | 8.67            | 32.12              | 48.17          | 74.00               | -25.84          | Vertical     |
| 7311.00         | 34.73             | 36.37                 | 11.72           | 31.89              | 50.93          | 74.00               | -23.08          | Vertical     |
| 9748.00         | 34.55             | 38.35                 | 14.25           | 31.62              | 55.53          | 74.00               | -18.48          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4874.00         | 40.24             | 31.85                 | 8.67            | 32.12              | 48.64          | 74.00               | -25.36          | Horizontal   |
| 7311.00         | 33.72             | 36.37                 | 11.72           | 31.89              | 49.92          | 74.00               | -24.08          | Horizontal   |
| 9748.00         | 33.81             | 38.35                 | 14.25           | 31.62              | 54.79          | 74.00               | -19.22          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 30.66             | 31.85                 | 8.67            | 32.12              | 39.06          | 54.00               | -14.95          | Vertical     |
| 7311.00         | 23.05             | 36.37                 | 11.72           | 31.89              | 39.25          | 54.00               | -14.76          | Vertical     |
| 9748.00         | 23.82             | 38.35                 | 14.25           | 31.62              | 44.80          | 54.00               | -9.21           | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4874.00         | 30.37             | 31.85                 | 8.67            | 32.12              | 38.77          | 54.00               | -15.23          | Horizontal   |
| 7311.00         | 22.82             | 36.37                 | 11.72           | 31.89              | 39.02          | 54.00               | -14.98          | Horizontal   |
| 9748.00         | 23.53             | 38.35                 | 14.25           | 31.62              | 44.51          | 54.00               | -9.50           | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“\*”*, means this data is the too weak instrument of signal is unable to test.

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT40) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4904.00         | 44.96             | 31.93                 | 8.73            | 32.16              | 53.46          | 74.00               | -20.55          | Vertical     |
| 7356.00         | 35.19             | 36.59                 | 11.79           | 31.78              | 51.79          | 74.00               | -22.22          | Vertical     |
| 9808.00         | 37.70             | 38.81                 | 14.38           | 31.88              | 59.01          | 74.00               | -15.00          | Vertical     |
| 12260.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14712.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17164.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4904.00         | 44.31             | 31.93                 | 8.73            | 32.16              | 52.81          | 74.00               | -21.19          | Horizontal   |
| 7356.00         | 34.47             | 36.59                 | 11.79           | 31.78              | 51.07          | 74.00               | -22.93          | Horizontal   |
| 9808.00         | 33.25             | 38.81                 | 14.38           | 31.88              | 54.56          | 74.00               | -19.45          | Horizontal   |
| 12260.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14712.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17164.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4904.00         | 35.94             | 31.93                 | 8.73            | 32.16              | 44.44          | 54.00               | -9.56           | Vertical     |
| 7356.00         | 25.12             | 36.59                 | 11.79           | 31.78              | 41.72          | 54.00               | -12.29          | Vertical     |
| 9808.00         | 26.21             | 38.81                 | 14.38           | 31.88              | 47.52          | 54.00               | -6.49           | Vertical     |
| 12260.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14712.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17164.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4904.00         | 34.72             | 31.93                 | 8.73            | 32.16              | 43.22          | 54.00               | -10.78          | Horizontal   |
| 7356.00         | 23.88             | 36.59                 | 11.79           | 31.78              | 40.48          | 54.00               | -13.52          | Horizontal   |
| 9808.00         | 22.52             | 38.81                 | 14.38           | 31.88              | 43.83          | 54.00               | -10.18          | Horizontal   |
| 12260.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14712.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17164.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

- 1 Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “\*”, means this data is the too weak instrument of signal is unable to test.

## 8 Test Setup Photo

Reference to the **appendix I** for details.

## 9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----