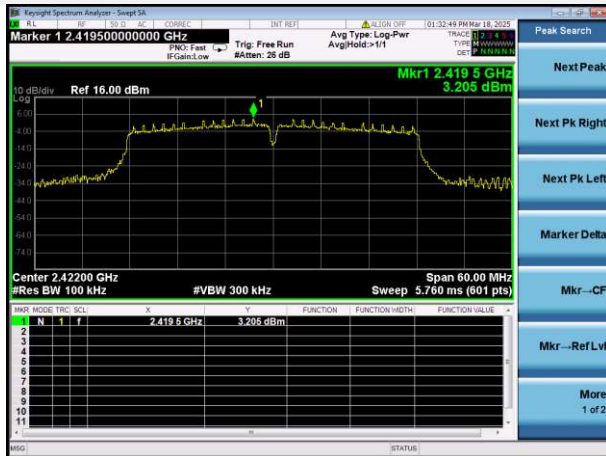
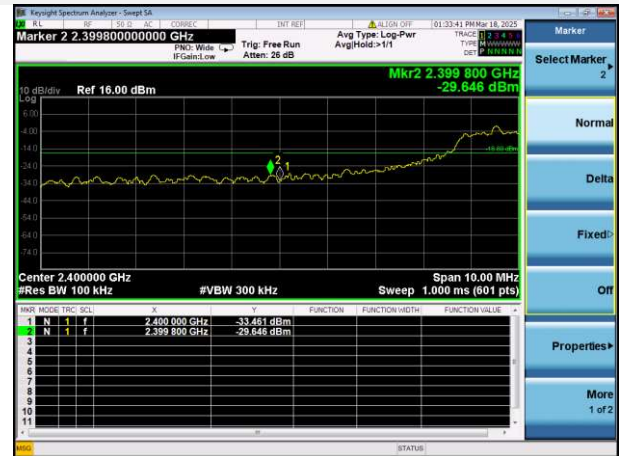


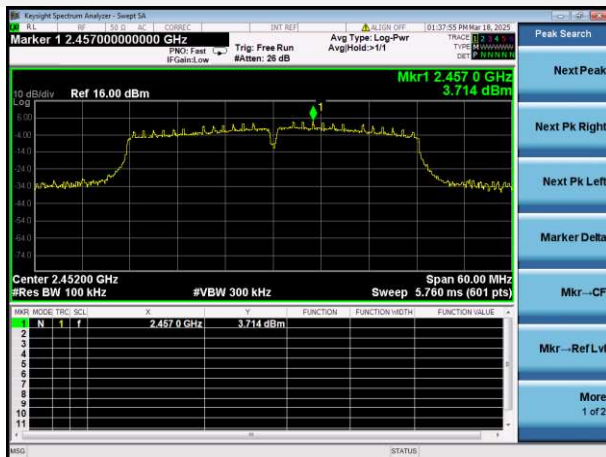
## 802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



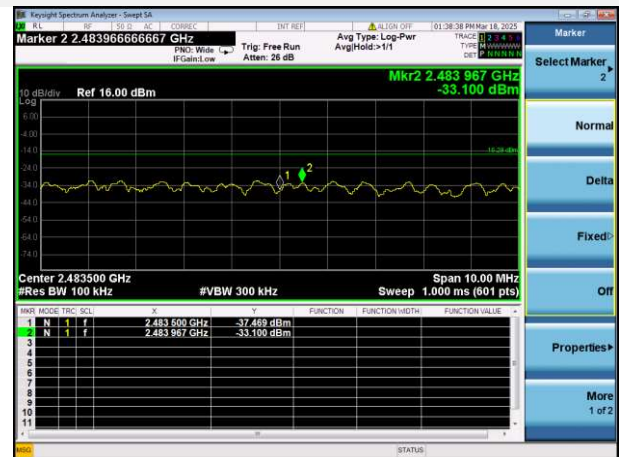
## 802.11n-40 MHz LOW CHANNEL, BAND EDGE



## 802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



## 802.11n-40 MHz HIGH CHANNEL, BAND EDGE



## A.5 Conducted Emissions

Note<sup>1</sup>: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

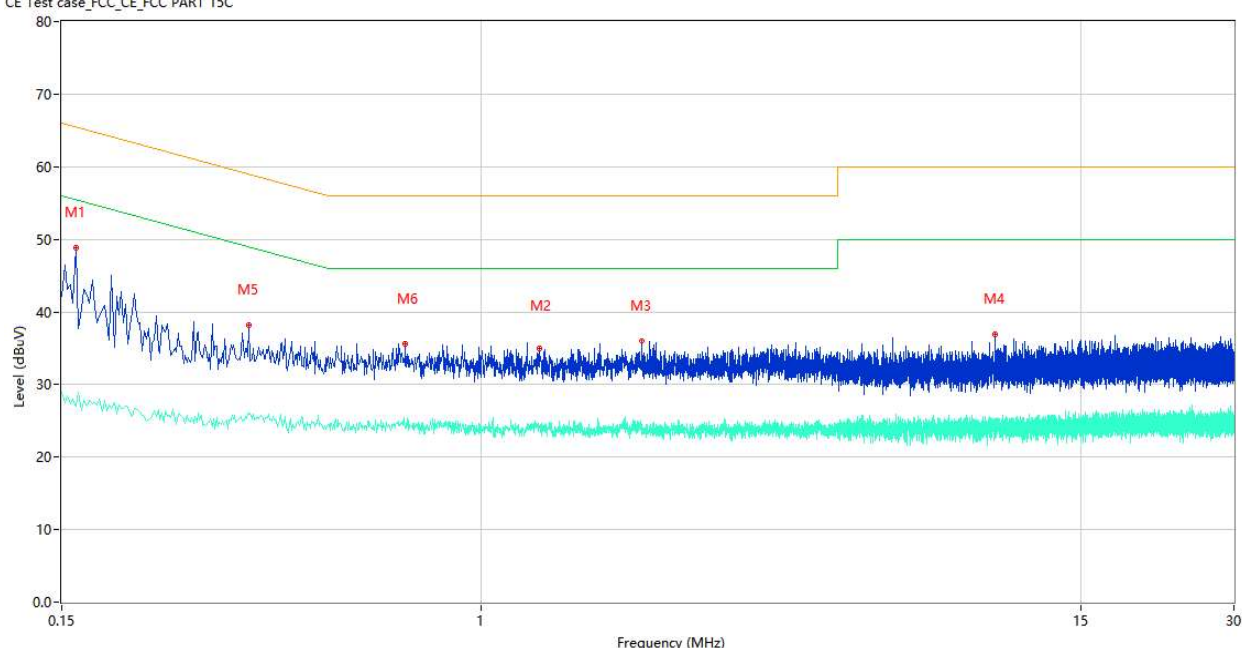
Note<sup>2</sup>: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz ) shown here.

Note<sup>3</sup>: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

### Test Data and Plots

#### PHASE L

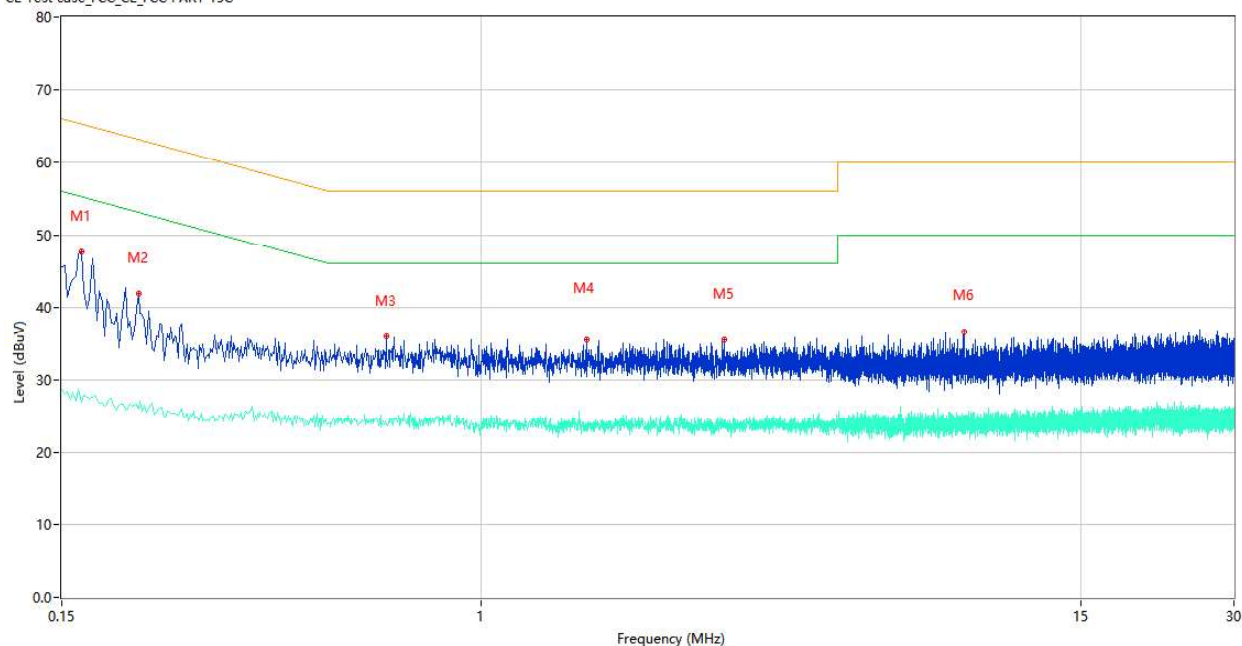
CE Test case\_FCC\_CE\_FCC PART 15C



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|------|---------|
| 1   | 0.160           | 48.86          | 9.78        | 65.46        | 16.60       | Peak     | L    | Pass    |
| 1** | 0.160           | 26.92          | 9.78        | 55.46        | 28.54       | AV       | L    | Pass    |
| 2   | 1.298           | 34.95          | 10.51       | 56.00        | 21.05       | Peak     | L    | Pass    |
| 2** | 1.298           | 24.29          | 10.51       | 46.00        | 21.71       | AV       | L    | Pass    |
| 3   | 2.064           | 36.01          | 10.30       | 56.00        | 19.99       | Peak     | L    | Pass    |
| 3** | 2.064           | 24.48          | 10.30       | 46.00        | 21.52       | AV       | L    | Pass    |
| 4   | 10.178          | 36.93          | 10.50       | 60.00        | 23.07       | Peak     | L    | Pass    |
| 4** | 10.178          | 25.02          | 10.50       | 50.00        | 24.98       | AV       | L    | Pass    |
| 5   | 0.350           | 38.23          | 10.76       | 58.96        | 20.73       | Peak     | L    | Pass    |
| 5** | 0.350           | 25.82          | 10.76       | 48.96        | 23.14       | AV       | L    | Pass    |
| 6   | 0.710           | 35.51          | 10.55       | 56.00        | 20.49       | Peak     | L    | Pass    |
| 6** | 0.710           | 23.99          | 10.55       | 46.00        | 22.01       | AV       | L    | Pass    |

## PHASE N

CE Test case\_FCC\_CE\_FCC PART 15C



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|------|---------|
| 1   | 0.164           | 47.66          | 9.78        | 65.26        | 17.60       | Peak     | N    | Pass    |
| 1** | 0.164           | 27.04          | 9.78        | 55.26        | 28.22       | AV       | N    | Pass    |
| 2   | 0.212           | 41.98          | 9.77        | 63.13        | 21.15       | Peak     | N    | Pass    |
| 2** | 0.212           | 26.00          | 9.77        | 53.13        | 27.13       | AV       | N    | Pass    |
| 3   | 0.650           | 36.02          | 10.21       | 56.00        | 19.98       | Peak     | N    | Pass    |
| 3** | 0.650           | 24.00          | 10.21       | 46.00        | 22.00       | AV       | N    | Pass    |
| 4   | 1.606           | 35.48          | 9.87        | 56.00        | 20.52       | Peak     | N    | Pass    |
| 4** | 1.606           | 23.60          | 9.87        | 46.00        | 22.40       | AV       | N    | Pass    |
| 5   | 2.992           | 35.60          | 10.28       | 56.00        | 20.40       | Peak     | N    | Pass    |
| 5** | 2.992           | 24.39          | 10.28       | 46.00        | 21.61       | AV       | N    | Pass    |
| 6   | 8.862           | 36.72          | 10.37       | 60.00        | 23.28       | Peak     | N    | Pass    |
| 6** | 8.862           | 25.08          | 10.37       | 50.00        | 24.92       | AV       | N    | Pass    |

## A.6 Radiated Emission

Note<sup>1</sup>: The symbol of “--” in the table which means not application.

Note<sup>2</sup>: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

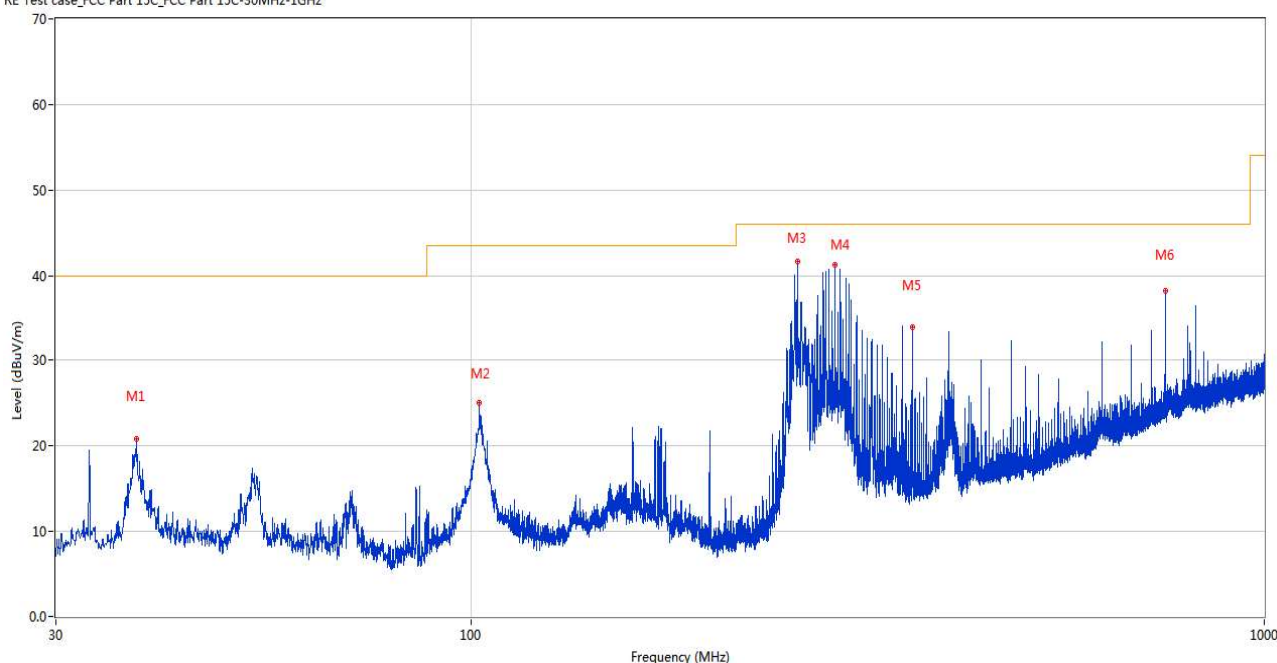
Note<sup>3</sup>: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note<sup>4</sup>: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

### Test Data and Plots

#### 30 MHz to 1 GHz, ANT H

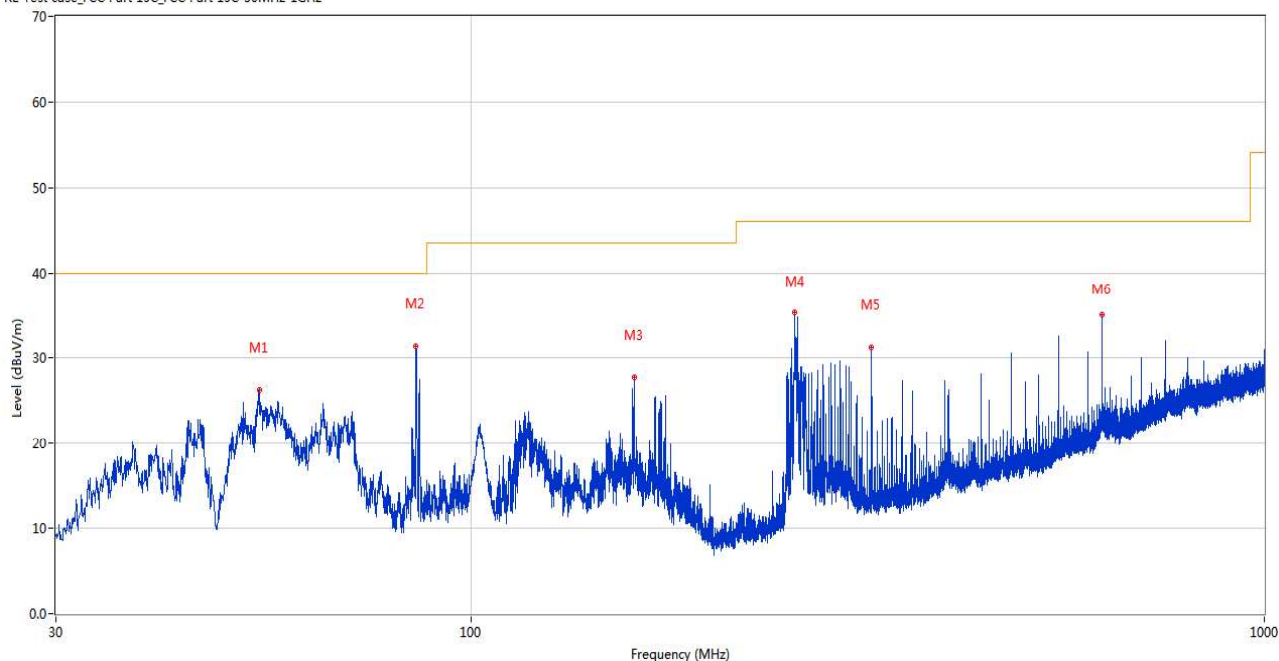
RE Test case\_FCC Part 15C\_FCC Part 15C-30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 37.954          | 20.80            | -26.79      | 40.0           | 19.20       | Peak     | 277.00         | 100         | Horizontal | Pass    |
| 2   | 102.604         | 25.04            | -29.71      | 43.5           | 18.46       | Peak     | 335.00         | 200         | Horizontal | Pass    |
| 3   | 258.338         | 41.65            | -26.57      | 46.0           | 4.35        | Peak     | 315.00         | 100         | Horizontal | Pass    |
| 4   | 287.535         | 41.31            | -25.43      | 46.0           | 4.69        | Peak     | 0.00           | 100         | Horizontal | Pass    |
| 5   | 359.994         | 33.94            | -23.38      | 46.0           | 12.06       | Peak     | 192.00         | 100         | Horizontal | Pass    |
| 6   | 750.031         | 38.04            | -13.46      | 46.0           | 7.96        | Peak     | 199.00         | 100         | Horizontal | Pass    |

## 30 MHz to 1 GHz, ANT V

RE Test case\_FCC Part 15C\_FCC Part 15C-30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 54.105          | 26.21            | -27.01      | 40.0           | 13.79       | Peak     | 275.00         | 100         | Vertical | Pass    |
| 2   | 85.339          | 31.39            | -30.77      | 40.0           | 8.61        | Peak     | 325.00         | 100         | Vertical | Pass    |
| 3   | 160.611         | 27.73            | -25.28      | 43.5           | 15.77       | Peak     | 46.00          | 100         | Vertical | Pass    |
| 4   | 256.155         | 35.39            | -26.49      | 46.0           | 10.61       | Peak     | 0.00           | 200         | Vertical | Pass    |
| 5   | 319.982         | 31.25            | -24.06      | 46.0           | 14.75       | Peak     | 44.00          | 200         | Vertical | Pass    |
| 6   | 625.047         | 35.02            | -15.36      | 46.0           | 10.98       | Peak     | 108.00         | 200         | Vertical | Pass    |

Note<sup>1</sup>: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note<sup>2</sup>: The spurious above 18G is noise only, do not show on the report.

#### 1 GHz to 18 GHz, ANT H 802.11b Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1330.395        | 47.11            | 74.0           | 26.89       | Peak     | 330.00         | 300         | Horizontal | Pass    |
| 1** | 1330.395        | 35.84            | 54.0           | 18.16       | AV       | 330.00         | 300         | Horizontal | Pass    |
| 2   | 2999.461        | 48.72            | 74.0           | 25.28       | Peak     | 256.00         | 200         | Horizontal | Pass    |
| 2** | 2999.461        | 44.01            | 54.0           | 9.99        | AV       | 256.00         | 200         | Horizontal | Pass    |
| 3   | 4935.911        | 54.06            | 74.0           | 19.94       | Peak     | 315.00         | 200         | Horizontal | Pass    |
| 3** | 4935.911        | 43.77            | 54.0           | 10.23       | AV       | 315.00         | 200         | Horizontal | Pass    |
| 4   | 6810.336        | 56.99            | 74.0           | 17.01       | Peak     | 66.00          | 200         | Horizontal | Pass    |
| 4** | 6810.336        | 42.35            | 54.0           | 11.65       | AV       | 66.00          | 200         | Horizontal | Pass    |
| 5   | 13412.978       | 54.27            | 74.0           | 19.73       | Peak     | 284.00         | 300         | Horizontal | Pass    |
| 5** | 13412.978       | 46.39            | 54.0           | 7.61        | AV       | 284.00         | 300         | Horizontal | Pass    |
| 6   | 17425.200       | 54.45            | 74.0           | 19.55       | Peak     | 233.00         | 300         | Horizontal | Pass    |
| 6** | 17425.200       | 46.24            | 54.0           | 7.76        | AV       | 233.00         | 300         | Horizontal | Pass    |

#### 1 GHz to 18 GHz, ANT V 802.11b Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1332.435        | 47.73            | 74.0           | 26.27       | Peak     | 163.00         | 300         | Vertical | Pass    |
| 1** | 1332.435        | 38.34            | 54.0           | 15.66       | AV       | 163.00         | 300         | Vertical | Pass    |
| 2   | 2979.976        | 50.72            | 74.0           | 23.28       | Peak     | 112.00         | 200         | Vertical | Pass    |
| 2** | 2979.976        | 42.22            | 54.0           | 11.78       | AV       | 112.00         | 200         | Vertical | Pass    |
| 3   | 4856.098        | 50.73            | 74.0           | 23.27       | Peak     | 343.00         | 200         | Vertical | Pass    |
| 3** | 4856.098        | 38.27            | 54.0           | 15.73       | AV       | 343.00         | 200         | Vertical | Pass    |
| 4   | 6608.452        | 54.63            | 74.0           | 19.37       | Peak     | 64.00          | 100         | Vertical | Pass    |
| 4** | 6608.452        | 46.74            | 54.0           | 7.26        | AV       | 64.00          | 100         | Vertical | Pass    |
| 5   | 13435.004       | 58.08            | 74.0           | 15.92       | Peak     | 132.00         | 400         | Vertical | Pass    |
| 5** | 13435.004       | 48.94            | 54.0           | 5.06        | AV       | 132.00         | 400         | Vertical | Pass    |
| 6   | 17414.668       | 58.31            | 74.0           | 15.69       | Peak     | 98.00          | 400         | Vertical | Pass    |
| 6** | 17414.668       | 46.37            | 54.0           | 7.63        | AV       | 98.00          | 400         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11b Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1331.502        | 44.53            | 74.0           | 29.47       | Peak     | 334.00         | 100         | Horizontal | Pass    |
| 1** | 1331.502        | 35.43            | 54.0           | 18.57       | AV       | 334.00         | 100         | Horizontal | Pass    |
| 2   | 2996.685        | 48.35            | 74.0           | 25.65       | Peak     | 38.00          | 100         | Horizontal | Pass    |
| 2** | 2996.685        | 41.50            | 54.0           | 12.50       | AV       | 38.00          | 100         | Horizontal | Pass    |
| 3   | 4937.629        | 51.07            | 74.0           | 22.93       | Peak     | 205.00         | 200         | Horizontal | Pass    |
| 3** | 4937.629        | 42.82            | 54.0           | 11.18       | AV       | 205.00         | 200         | Horizontal | Pass    |
| 4   | 6806.562        | 55.48            | 74.0           | 18.52       | Peak     | 355.00         | 300         | Horizontal | Pass    |
| 4** | 6806.562        | 45.68            | 54.0           | 8.32        | AV       | 355.00         | 300         | Horizontal | Pass    |
| 5   | 13414.296       | 55.91            | 74.0           | 18.09       | Peak     | 76.00          | 300         | Horizontal | Pass    |
| 5** | 13414.296       | 46.36            | 54.0           | 7.64        | AV       | 76.00          | 300         | Horizontal | Pass    |
| 6   | 17424.560       | 58.95            | 74.0           | 15.05       | Peak     | 129.00         | 200         | Horizontal | Pass    |
| 6** | 17424.560       | 48.51            | 54.0           | 5.49        | AV       | 129.00         | 200         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11b Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1334.639        | 45.82            | 74.0           | 28.18       | Peak     | 146.00         | 100         | Vertical | Pass    |
| 1** | 1334.639        | 39.23            | 54.0           | 14.77       | AV       | 146.00         | 100         | Vertical | Pass    |
| 2   | 2980.520        | 52.45            | 74.0           | 21.55       | Peak     | 348.00         | 200         | Vertical | Pass    |
| 2** | 2980.520        | 39.07            | 54.0           | 14.93       | AV       | 348.00         | 200         | Vertical | Pass    |
| 3   | 4857.711        | 51.83            | 74.0           | 22.17       | Peak     | 61.00          | 200         | Vertical | Pass    |
| 3** | 4857.711        | 42.48            | 54.0           | 11.52       | AV       | 61.00          | 200         | Vertical | Pass    |
| 4   | 6604.786        | 52.79            | 74.0           | 21.21       | Peak     | 4.00           | 200         | Vertical | Pass    |
| 4** | 6604.786        | 47.29            | 54.0           | 6.71        | AV       | 4.00           | 200         | Vertical | Pass    |
| 5   | 13432.563       | 57.36            | 74.0           | 16.64       | Peak     | 27.00          | 100         | Vertical | Pass    |
| 5** | 13432.563       | 48.49            | 54.0           | 5.51        | AV       | 27.00          | 100         | Vertical | Pass    |
| 6   | 17414.267       | 56.96            | 74.0           | 17.04       | Peak     | 40.00          | 100         | Vertical | Pass    |
| 6** | 17414.267       | 47.36            | 54.0           | 6.64        | AV       | 40.00          | 100         | Vertical | Pass    |



## 1 GHz to 18 GHz, ANT H 802.11b High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1328.442        | 43.87            | 74.0           | 30.13       | Peak     | 168.00         | 400         | Horizontal | Pass    |
| 1** | 1328.442        | 34.58            | 54.0           | 19.42       | AV       | 168.00         | 400         | Horizontal | Pass    |
| 2   | 2998.286        | 47.99            | 74.0           | 26.01       | Peak     | 318.00         | 200         | Horizontal | Pass    |
| 2** | 2998.286        | 42.86            | 54.0           | 11.14       | AV       | 318.00         | 200         | Horizontal | Pass    |
| 3   | 4935.401        | 52.44            | 74.0           | 21.56       | Peak     | 345.00         | 200         | Horizontal | Pass    |
| 3** | 4935.401        | 38.73            | 54.0           | 15.27       | AV       | 345.00         | 200         | Horizontal | Pass    |
| 4   | 6806.496        | 52.71            | 74.0           | 21.29       | Peak     | 59.00          | 400         | Horizontal | Pass    |
| 4** | 6806.496        | 44.01            | 54.0           | 9.99        | AV       | 59.00          | 400         | Horizontal | Pass    |
| 5   | 13411.392       | 53.85            | 74.0           | 20.15       | Peak     | 173.00         | 100         | Horizontal | Pass    |
| 5** | 13411.392       | 48.68            | 54.0           | 5.32        | AV       | 173.00         | 100         | Horizontal | Pass    |
| 6   | 17422.525       | 53.14            | 74.0           | 20.86       | Peak     | 255.00         | 200         | Horizontal | Pass    |
| 6** | 17422.525       | 50.22            | 54.0           | 3.78        | AV       | 255.00         | 200         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11b High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1330.761        | 45.37            | 74.0           | 28.63       | Peak     | 185.00         | 100         | Vertical | Pass    |
| 1** | 1330.761        | 38.46            | 54.0           | 15.54       | AV       | 185.00         | 100         | Vertical | Pass    |
| 2   | 2979.027        | 48.96            | 74.0           | 25.04       | Peak     | 150.00         | 100         | Vertical | Pass    |
| 2** | 2979.027        | 42.57            | 54.0           | 11.43       | AV       | 150.00         | 100         | Vertical | Pass    |
| 3   | 4854.885        | 46.99            | 74.0           | 27.01       | Peak     | 303.00         | 200         | Vertical | Pass    |
| 3** | 4854.885        | 42.79            | 54.0           | 11.21       | AV       | 303.00         | 200         | Vertical | Pass    |
| 4   | 6605.515        | 53.47            | 74.0           | 20.53       | Peak     | 325.00         | 100         | Vertical | Pass    |
| 4** | 6605.515        | 44.07            | 54.0           | 9.93        | AV       | 325.00         | 100         | Vertical | Pass    |
| 5   | 13436.934       | 56.40            | 74.0           | 17.60       | Peak     | 227.00         | 100         | Vertical | Pass    |
| 5** | 13436.934       | 47.90            | 54.0           | 6.10        | AV       | 227.00         | 100         | Vertical | Pass    |
| 6   | 17417.456       | 58.90            | 74.0           | 15.10       | Peak     | 51.00          | 200         | Vertical | Pass    |
| 6** | 17417.456       | 46.76            | 54.0           | 7.24        | AV       | 51.00          | 200         | Vertical | Pass    |



## 1 GHz to 18 GHz, ANT H 802.11g Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1332.147        | 44.38            | 74.0           | 29.62       | Peak     | 72.00          | 200         | Horizontal | Pass    |
| 1** | 1332.147        | 36.84            | 54.0           | 17.16       | AV       | 72.00          | 200         | Horizontal | Pass    |
| 2   | 2993.445        | 51.97            | 74.0           | 22.03       | Peak     | 188.00         | 200         | Horizontal | Pass    |
| 2** | 2993.445        | 44.18            | 54.0           | 9.82        | AV       | 188.00         | 200         | Horizontal | Pass    |
| 3   | 4930.708        | 54.15            | 74.0           | 19.85       | Peak     | 124.00         | 200         | Horizontal | Pass    |
| 3** | 4930.708        | 42.89            | 54.0           | 11.11       | AV       | 124.00         | 200         | Horizontal | Pass    |
| 4   | 6810.877        | 53.55            | 74.0           | 20.45       | Peak     | 260.00         | 100         | Horizontal | Pass    |
| 4** | 6810.877        | 44.62            | 54.0           | 9.38        | AV       | 260.00         | 100         | Horizontal | Pass    |
| 5   | 13411.851       | 56.50            | 74.0           | 17.50       | Peak     | 359.00         | 400         | Horizontal | Pass    |
| 5** | 13411.851       | 47.23            | 54.0           | 6.77        | AV       | 359.00         | 400         | Horizontal | Pass    |
| 6   | 17423.494       | 58.28            | 74.0           | 15.72       | Peak     | 78.00          | 400         | Horizontal | Pass    |
| 6** | 17423.494       | 46.58            | 54.0           | 7.42        | AV       | 78.00          | 400         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11g Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1329.474        | 45.58            | 74.0           | 28.42       | Peak     | 70.00          | 100         | Vertical | Pass    |
| 1** | 1329.474        | 39.20            | 54.0           | 14.80       | AV       | 70.00          | 100         | Vertical | Pass    |
| 2   | 2981.241        | 49.51            | 74.0           | 24.49       | Peak     | 76.00          | 100         | Vertical | Pass    |
| 2** | 2981.241        | 44.75            | 54.0           | 9.25        | AV       | 76.00          | 100         | Vertical | Pass    |
| 3   | 4851.350        | 51.43            | 74.0           | 22.57       | Peak     | 326.00         | 200         | Vertical | Pass    |
| 3** | 4851.350        | 41.14            | 54.0           | 12.86       | AV       | 326.00         | 200         | Vertical | Pass    |
| 4   | 6606.197        | 55.97            | 74.0           | 18.03       | Peak     | 207.00         | 300         | Vertical | Pass    |
| 4** | 6606.197        | 44.51            | 54.0           | 9.49        | AV       | 207.00         | 300         | Vertical | Pass    |
| 5   | 13433.271       | 55.12            | 74.0           | 18.88       | Peak     | 287.00         | 400         | Vertical | Pass    |
| 5** | 13433.271       | 44.28            | 54.0           | 9.72        | AV       | 287.00         | 400         | Vertical | Pass    |
| 6   | 17414.560       | 56.33            | 74.0           | 17.67       | Peak     | 329.00         | 100         | Vertical | Pass    |
| 6** | 17414.560       | 47.44            | 54.0           | 6.56        | AV       | 329.00         | 100         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11g Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1327.358        | 45.28            | 74.0           | 28.72       | Peak     | 346.00         | 300         | Horizontal | Pass    |
| 1** | 1327.358        | 38.76            | 54.0           | 15.24       | AV       | 346.00         | 300         | Horizontal | Pass    |
| 2   | 2993.801        | 49.38            | 74.0           | 24.62       | Peak     | 346.00         | 300         | Horizontal | Pass    |
| 2** | 2993.801        | 39.65            | 54.0           | 14.35       | AV       | 346.00         | 300         | Horizontal | Pass    |
| 3   | 4937.326        | 54.39            | 74.0           | 19.61       | Peak     | 196.00         | 200         | Horizontal | Pass    |
| 3** | 4937.326        | 44.39            | 54.0           | 9.61        | AV       | 196.00         | 200         | Horizontal | Pass    |
| 4   | 6809.234        | 55.73            | 74.0           | 18.27       | Peak     | 47.00          | 200         | Horizontal | Pass    |
| 4** | 6809.234        | 43.08            | 54.0           | 10.92       | AV       | 47.00          | 200         | Horizontal | Pass    |
| 5   | 13409.109       | 58.33            | 74.0           | 15.67       | Peak     | 274.00         | 100         | Horizontal | Pass    |
| 5** | 13409.109       | 44.32            | 54.0           | 9.68        | AV       | 274.00         | 100         | Horizontal | Pass    |
| 6   | 17427.684       | 55.98            | 74.0           | 18.02       | Peak     | 65.00          | 300         | Horizontal | Pass    |
| 6** | 17427.684       | 48.22            | 54.0           | 5.78        | AV       | 65.00          | 300         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11g Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1330.265        | 44.86            | 74.0           | 29.14       | Peak     | 75.00          | 300         | Vertical | Pass    |
| 1** | 1330.265        | 37.74            | 54.0           | 16.26       | AV       | 75.00          | 300         | Vertical | Pass    |
| 2   | 2984.176        | 53.28            | 74.0           | 20.72       | Peak     | 220.00         | 100         | Vertical | Pass    |
| 2** | 2984.176        | 39.01            | 54.0           | 14.99       | AV       | 220.00         | 100         | Vertical | Pass    |
| 3   | 4852.378        | 47.08            | 74.0           | 26.92       | Peak     | 23.00          | 200         | Vertical | Pass    |
| 3** | 4852.378        | 42.96            | 54.0           | 11.04       | AV       | 23.00          | 200         | Vertical | Pass    |
| 4   | 6609.067        | 56.90            | 74.0           | 17.10       | Peak     | 242.00         | 200         | Vertical | Pass    |
| 4** | 6609.067        | 44.68            | 54.0           | 9.32        | AV       | 242.00         | 200         | Vertical | Pass    |
| 5   | 13434.379       | 55.49            | 74.0           | 18.51       | Peak     | 250.00         | 200         | Vertical | Pass    |
| 5** | 13434.379       | 46.32            | 54.0           | 7.68        | AV       | 250.00         | 200         | Vertical | Pass    |
| 6   | 17417.523       | 55.26            | 74.0           | 18.74       | Peak     | 253.00         | 200         | Vertical | Pass    |
| 6** | 17417.523       | 45.03            | 54.0           | 8.97        | AV       | 253.00         | 200         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11g High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1328.987        | 45.75            | 74.0           | 28.25       | Peak     | 319.00         | 300         | Horizontal | Pass    |
| 1** | 1328.987        | 34.82            | 54.0           | 19.18       | AV       | 319.00         | 300         | Horizontal | Pass    |
| 2   | 2994.429        | 52.92            | 74.0           | 21.08       | Peak     | 298.00         | 400         | Horizontal | Pass    |
| 2** | 2994.429        | 39.97            | 54.0           | 14.03       | AV       | 298.00         | 400         | Horizontal | Pass    |
| 3   | 4930.909        | 51.13            | 74.0           | 22.87       | Peak     | 7.00           | 200         | Horizontal | Pass    |
| 3** | 4930.909        | 43.13            | 54.0           | 10.87       | AV       | 7.00           | 200         | Horizontal | Pass    |
| 4   | 6809.876        | 53.81            | 74.0           | 20.19       | Peak     | 38.00          | 200         | Horizontal | Pass    |
| 4** | 6809.876        | 41.76            | 54.0           | 12.24       | AV       | 38.00          | 200         | Horizontal | Pass    |
| 5   | 13408.359       | 57.12            | 74.0           | 16.88       | Peak     | 122.00         | 200         | Horizontal | Pass    |
| 5** | 13408.359       | 48.65            | 54.0           | 5.35        | AV       | 122.00         | 200         | Horizontal | Pass    |
| 6   | 17424.468       | 56.42            | 74.0           | 17.58       | Peak     | 197.00         | 300         | Horizontal | Pass    |
| 6** | 17424.468       | 50.18            | 54.0           | 3.82        | AV       | 197.00         | 300         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11g High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1333.459        | 46.02            | 74.0           | 27.98       | Peak     | 62.00          | 200         | Vertical | Pass    |
| 1** | 1333.459        | 36.17            | 54.0           | 17.83       | AV       | 62.00          | 200         | Vertical | Pass    |
| 2   | 2984.727        | 51.72            | 74.0           | 22.28       | Peak     | 322.00         | 100         | Vertical | Pass    |
| 2** | 2984.727        | 40.08            | 54.0           | 13.92       | AV       | 322.00         | 100         | Vertical | Pass    |
| 3   | 4852.083        | 48.81            | 74.0           | 25.19       | Peak     | 140.00         | 200         | Vertical | Pass    |
| 3** | 4852.083        | 41.87            | 54.0           | 12.13       | AV       | 140.00         | 200         | Vertical | Pass    |
| 4   | 6603.630        | 56.54            | 74.0           | 17.46       | Peak     | 346.00         | 400         | Vertical | Pass    |
| 4** | 6603.630        | 45.98            | 54.0           | 8.02        | AV       | 346.00         | 400         | Vertical | Pass    |
| 5   | 13436.951       | 54.88            | 74.0           | 19.12       | Peak     | 154.00         | 100         | Vertical | Pass    |
| 5** | 13436.951       | 45.27            | 54.0           | 8.73        | AV       | 154.00         | 100         | Vertical | Pass    |
| 6   | 17419.862       | 56.57            | 74.0           | 17.43       | Peak     | 283.00         | 400         | Vertical | Pass    |
| 6** | 17419.862       | 47.78            | 54.0           | 6.22        | AV       | 283.00         | 400         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1328.538        | 43.28            | 74.0           | 30.72       | Peak     | 177.00         | 100         | Horizontal | Pass    |
| 1** | 1328.538        | 39.16            | 54.0           | 14.84       | AV       | 177.00         | 100         | Horizontal | Pass    |
| 2   | 3000.313        | 47.30            | 74.0           | 26.70       | Peak     | 220.00         | 400         | Horizontal | Pass    |
| 2** | 3000.313        | 43.45            | 54.0           | 10.55       | AV       | 220.00         | 400         | Horizontal | Pass    |
| 3   | 4932.890        | 49.53            | 74.0           | 24.47       | Peak     | 84.00          | 200         | Horizontal | Pass    |
| 3** | 4932.890        | 39.24            | 54.0           | 14.76       | AV       | 84.00          | 200         | Horizontal | Pass    |
| 4   | 6808.825        | 55.28            | 74.0           | 18.72       | Peak     | 248.00         | 200         | Horizontal | Pass    |
| 4** | 6808.825        | 45.86            | 54.0           | 8.14        | AV       | 248.00         | 200         | Horizontal | Pass    |
| 5   | 13412.895       | 54.96            | 74.0           | 19.04       | Peak     | 238.00         | 300         | Horizontal | Pass    |
| 5** | 13412.895       | 48.27            | 54.0           | 5.73        | AV       | 238.00         | 300         | Horizontal | Pass    |
| 6   | 17428.265       | 53.52            | 74.0           | 20.48       | Peak     | 228.00         | 200         | Horizontal | Pass    |
| 6** | 17428.265       | 48.57            | 54.0           | 5.43        | AV       | 228.00         | 200         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1331.442        | 42.18            | 74.0           | 31.82       | Peak     | 146.00         | 200         | Vertical | Pass    |
| 1** | 1331.442        | 38.78            | 54.0           | 15.22       | AV       | 146.00         | 200         | Vertical | Pass    |
| 2   | 2982.248        | 48.54            | 74.0           | 25.46       | Peak     | 117.00         | 100         | Vertical | Pass    |
| 2** | 2982.248        | 39.01            | 54.0           | 14.99       | AV       | 117.00         | 100         | Vertical | Pass    |
| 3   | 4858.006        | 51.05            | 74.0           | 22.95       | Peak     | 168.00         | 200         | Vertical | Pass    |
| 3** | 4858.006        | 42.56            | 54.0           | 11.44       | AV       | 168.00         | 200         | Vertical | Pass    |
| 4   | 6608.183        | 53.15            | 74.0           | 20.85       | Peak     | 263.00         | 400         | Vertical | Pass    |
| 4** | 6608.183        | 46.98            | 54.0           | 7.02        | AV       | 263.00         | 400         | Vertical | Pass    |
| 5   | 13436.564       | 54.30            | 74.0           | 19.70       | Peak     | 330.00         | 200         | Vertical | Pass    |
| 5** | 13436.564       | 45.84            | 54.0           | 8.16        | AV       | 330.00         | 200         | Vertical | Pass    |
| 6   | 17414.772       | 60.11            | 74.0           | 13.89       | Peak     | 203.00         | 200         | Vertical | Pass    |
| 6** | 17414.772       | 45.80            | 54.0           | 8.20        | AV       | 203.00         | 200         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1331.767        | 44.47            | 74.0           | 29.53       | Peak     | 223.00         | 400         | Horizontal | Pass    |
| 1** | 1331.767        | 33.82            | 54.0           | 20.18       | AV       | 223.00         | 400         | Horizontal | Pass    |
| 2   | 2992.660        | 52.47            | 74.0           | 21.53       | Peak     | 236.00         | 300         | Horizontal | Pass    |
| 2** | 2992.660        | 40.18            | 54.0           | 13.82       | AV       | 236.00         | 300         | Horizontal | Pass    |
| 3   | 4937.210        | 49.55            | 74.0           | 24.45       | Peak     | 200.00         | 200         | Horizontal | Pass    |
| 3** | 4937.210        | 42.25            | 54.0           | 11.75       | AV       | 200.00         | 200         | Horizontal | Pass    |
| 4   | 6805.400        | 51.72            | 74.0           | 22.28       | Peak     | 104.00         | 100         | Horizontal | Pass    |
| 4** | 6805.400        | 45.92            | 54.0           | 8.08        | AV       | 104.00         | 100         | Horizontal | Pass    |
| 5   | 13413.360       | 54.37            | 74.0           | 19.63       | Peak     | 262.00         | 100         | Horizontal | Pass    |
| 5** | 13413.360       | 46.66            | 54.0           | 7.34        | AV       | 262.00         | 100         | Horizontal | Pass    |
| 6   | 17424.431       | 54.49            | 74.0           | 19.51       | Peak     | 286.00         | 300         | Horizontal | Pass    |
| 6** | 17424.431       | 46.20            | 54.0           | 7.80        | AV       | 286.00         | 300         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1335.578        | 45.89            | 74.0           | 28.11       | Peak     | 54.00          | 200         | Vertical | Pass    |
| 1** | 1335.578        | 37.61            | 54.0           | 16.39       | AV       | 54.00          | 200         | Vertical | Pass    |
| 2   | 2983.719        | 49.66            | 74.0           | 24.34       | Peak     | 359.00         | 100         | Vertical | Pass    |
| 2** | 2983.719        | 41.34            | 54.0           | 12.66       | AV       | 359.00         | 100         | Vertical | Pass    |
| 3   | 4850.934        | 50.95            | 74.0           | 23.05       | Peak     | 260.00         | 200         | Vertical | Pass    |
| 3** | 4850.934        | 38.28            | 54.0           | 15.72       | AV       | 260.00         | 200         | Vertical | Pass    |
| 4   | 6607.772        | 56.76            | 74.0           | 17.24       | Peak     | 9.00           | 300         | Vertical | Pass    |
| 4** | 6607.772        | 43.19            | 54.0           | 10.81       | AV       | 9.00           | 300         | Vertical | Pass    |
| 5   | 13438.062       | 55.32            | 74.0           | 18.68       | Peak     | 26.00          | 200         | Vertical | Pass    |
| 5** | 13438.062       | 49.11            | 54.0           | 4.89        | AV       | 26.00          | 200         | Vertical | Pass    |
| 6   | 17420.289       | 56.69            | 74.0           | 17.31       | Peak     | 166.00         | 100         | Vertical | Pass    |
| 6** | 17420.289       | 45.37            | 54.0           | 8.63        | AV       | 166.00         | 100         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n20 High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1330.734        | 44.76            | 74.0           | 29.24       | Peak     | 163.00         | 300         | Horizontal | Pass    |
| 1** | 1330.734        | 35.62            | 54.0           | 18.38       | AV       | 163.00         | 300         | Horizontal | Pass    |
| 2   | 3000.301        | 52.63            | 74.0           | 21.37       | Peak     | 143.00         | 400         | Horizontal | Pass    |
| 2** | 3000.301        | 38.95            | 54.0           | 15.05       | AV       | 143.00         | 400         | Horizontal | Pass    |
| 3   | 4936.229        | 49.80            | 74.0           | 24.20       | Peak     | 282.00         | 200         | Horizontal | Pass    |
| 3** | 4936.229        | 40.41            | 54.0           | 13.59       | AV       | 282.00         | 200         | Horizontal | Pass    |
| 4   | 6806.547        | 51.68            | 74.0           | 22.32       | Peak     | 149.00         | 200         | Horizontal | Pass    |
| 4** | 6806.547        | 43.01            | 54.0           | 10.99       | AV       | 149.00         | 200         | Horizontal | Pass    |
| 5   | 13413.047       | 58.55            | 74.0           | 15.45       | Peak     | 229.00         | 400         | Horizontal | Pass    |
| 5** | 13413.047       | 47.57            | 54.0           | 6.43        | AV       | 229.00         | 400         | Horizontal | Pass    |
| 6   | 17429.218       | 55.14            | 74.0           | 18.86       | Peak     | 63.00          | 100         | Horizontal | Pass    |
| 6** | 17429.218       | 44.80            | 54.0           | 9.20        | AV       | 63.00          | 100         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n20 High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1335.908        | 44.65            | 74.0           | 29.35       | Peak     | 144.00         | 400         | Vertical | Pass    |
| 1** | 1335.908        | 38.89            | 54.0           | 15.11       | AV       | 144.00         | 400         | Vertical | Pass    |
| 2   | 2981.882        | 52.18            | 74.0           | 21.82       | Peak     | 17.00          | 300         | Vertical | Pass    |
| 2** | 2981.882        | 44.69            | 54.0           | 9.31        | AV       | 17.00          | 300         | Vertical | Pass    |
| 3   | 4855.927        | 49.54            | 74.0           | 24.46       | Peak     | 240.00         | 200         | Vertical | Pass    |
| 3** | 4855.927        | 39.82            | 54.0           | 14.18       | AV       | 240.00         | 200         | Vertical | Pass    |
| 4   | 6609.995        | 52.26            | 74.0           | 21.74       | Peak     | 119.00         | 400         | Vertical | Pass    |
| 4** | 6609.995        | 45.19            | 54.0           | 8.81        | AV       | 119.00         | 400         | Vertical | Pass    |
| 5   | 13438.197       | 55.79            | 74.0           | 18.21       | Peak     | 278.00         | 400         | Vertical | Pass    |
| 5** | 13438.197       | 47.39            | 54.0           | 6.61        | AV       | 278.00         | 400         | Vertical | Pass    |
| 6   | 17414.286       | 54.90            | 74.0           | 19.10       | Peak     | 248.00         | 400         | Vertical | Pass    |
| 6** | 17414.286       | 50.19            | 54.0           | 3.81        | AV       | 248.00         | 400         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1330.169        | 47.08            | 74.0           | 26.92       | Peak     | 319.00         | 400         | Horizontal | Pass    |
| 1** | 1330.169        | 36.16            | 54.0           | 17.84       | AV       | 319.00         | 400         | Horizontal | Pass    |
| 2   | 2993.979        | 52.58            | 74.0           | 21.42       | Peak     | 278.00         | 100         | Horizontal | Pass    |
| 2** | 2993.979        | 40.14            | 54.0           | 13.86       | AV       | 278.00         | 100         | Horizontal | Pass    |
| 3   | 4932.653        | 51.50            | 74.0           | 22.50       | Peak     | 233.00         | 200         | Horizontal | Pass    |
| 3** | 4932.653        | 42.02            | 54.0           | 11.98       | AV       | 233.00         | 200         | Horizontal | Pass    |
| 4   | 6804.258        | 53.40            | 74.0           | 20.60       | Peak     | 287.00         | 400         | Horizontal | Pass    |
| 4** | 6804.258        | 42.97            | 54.0           | 11.03       | AV       | 287.00         | 400         | Horizontal | Pass    |
| 5   | 13407.246       | 54.13            | 74.0           | 19.87       | Peak     | 283.00         | 100         | Horizontal | Pass    |
| 5** | 13407.246       | 44.36            | 54.0           | 9.64        | AV       | 283.00         | 100         | Horizontal | Pass    |
| 6   | 17428.837       | 58.85            | 74.0           | 15.15       | Peak     | 103.00         | 300         | Horizontal | Pass    |
| 6** | 17428.837       | 45.95            | 54.0           | 8.05        | AV       | 103.00         | 300         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1336.668        | 44.67            | 74.0           | 29.33       | Peak     | 334.00         | 200         | Vertical | Pass    |
| 1** | 1336.668        | 39.76            | 54.0           | 14.24       | AV       | 334.00         | 200         | Vertical | Pass    |
| 2   | 2978.854        | 51.36            | 74.0           | 22.64       | Peak     | 177.00         | 200         | Vertical | Pass    |
| 2** | 2978.854        | 41.56            | 54.0           | 12.44       | AV       | 177.00         | 200         | Vertical | Pass    |
| 3   | 4852.800        | 49.42            | 74.0           | 24.58       | Peak     | 22.00          | 200         | Vertical | Pass    |
| 3** | 4852.800        | 42.18            | 54.0           | 11.82       | AV       | 22.00          | 200         | Vertical | Pass    |
| 4   | 6604.950        | 55.08            | 74.0           | 18.92       | Peak     | 102.00         | 300         | Vertical | Pass    |
| 4** | 6604.950        | 42.50            | 54.0           | 11.50       | AV       | 102.00         | 300         | Vertical | Pass    |
| 5   | 13438.164       | 54.42            | 74.0           | 19.58       | Peak     | 50.00          | 200         | Vertical | Pass    |
| 5** | 13438.164       | 48.41            | 54.0           | 5.59        | AV       | 50.00          | 200         | Vertical | Pass    |
| 6   | 17418.357       | 55.16            | 74.0           | 18.84       | Peak     | 77.00          | 200         | Vertical | Pass    |
| 6** | 17418.357       | 46.88            | 54.0           | 7.12        | AV       | 77.00          | 200         | Vertical | Pass    |



## 1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1332.545        | 47.11            | 74.0           | 26.89       | Peak     | 126.00         | 200         | Horizontal | Pass    |
| 1** | 1332.545        | 35.48            | 54.0           | 18.52       | AV       | 126.00         | 200         | Horizontal | Pass    |
| 2   | 2998.073        | 51.34            | 74.0           | 22.66       | Peak     | 123.00         | 300         | Horizontal | Pass    |
| 2** | 2998.073        | 40.76            | 54.0           | 13.24       | AV       | 123.00         | 300         | Horizontal | Pass    |
| 3   | 4932.032        | 48.86            | 74.0           | 25.14       | Peak     | 24.00          | 200         | Horizontal | Pass    |
| 3** | 4932.032        | 40.72            | 54.0           | 13.28       | AV       | 24.00          | 200         | Horizontal | Pass    |
| 4   | 6809.039        | 51.78            | 74.0           | 22.22       | Peak     | 49.00          | 100         | Horizontal | Pass    |
| 4** | 6809.039        | 42.35            | 54.0           | 11.65       | AV       | 49.00          | 100         | Horizontal | Pass    |
| 5   | 13414.124       | 58.58            | 74.0           | 15.42       | Peak     | 84.00          | 100         | Horizontal | Pass    |
| 5** | 13414.124       | 49.00            | 54.0           | 5.00        | AV       | 84.00          | 100         | Horizontal | Pass    |
| 6   | 17424.094       | 58.04            | 74.0           | 15.96       | Peak     | 335.00         | 300         | Horizontal | Pass    |
| 6** | 17424.094       | 47.73            | 54.0           | 6.27        | AV       | 335.00         | 300         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1330.014        | 43.20            | 74.0           | 30.80       | Peak     | 126.00         | 100         | Vertical | Pass    |
| 1** | 1330.014        | 38.49            | 54.0           | 15.51       | AV       | 126.00         | 100         | Vertical | Pass    |
| 2   | 2980.349        | 52.74            | 74.0           | 21.26       | Peak     | 31.00          | 400         | Vertical | Pass    |
| 2** | 2980.349        | 39.30            | 54.0           | 14.70       | AV       | 31.00          | 400         | Vertical | Pass    |
| 3   | 4851.629        | 48.98            | 74.0           | 25.02       | Peak     | 314.00         | 200         | Vertical | Pass    |
| 3** | 4851.629        | 39.15            | 54.0           | 14.85       | AV       | 314.00         | 200         | Vertical | Pass    |
| 4   | 6603.587        | 52.11            | 74.0           | 21.89       | Peak     | 121.00         | 200         | Vertical | Pass    |
| 4** | 6603.587        | 43.42            | 54.0           | 10.58       | AV       | 121.00         | 200         | Vertical | Pass    |
| 5   | 13435.339       | 53.50            | 74.0           | 20.50       | Peak     | 56.00          | 400         | Vertical | Pass    |
| 5** | 13435.339       | 47.21            | 54.0           | 6.79        | AV       | 56.00          | 400         | Vertical | Pass    |
| 6   | 17417.582       | 56.34            | 74.0           | 17.66       | Peak     | 228.00         | 400         | Vertical | Pass    |
| 6** | 17417.582       | 48.83            | 54.0           | 5.17        | AV       | 228.00         | 400         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n40 High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1333.540        | 47.10            | 74.0           | 26.90       | Peak     | 227.00         | 100         | Horizontal | Pass    |
| 1** | 1333.540        | 34.09            | 54.0           | 19.91       | AV       | 227.00         | 100         | Horizontal | Pass    |
| 2   | 2998.276        | 49.90            | 74.0           | 24.10       | Peak     | 24.00          | 300         | Horizontal | Pass    |
| 2** | 2998.276        | 40.81            | 54.0           | 13.19       | AV       | 24.00          | 300         | Horizontal | Pass    |
| 3   | 4937.381        | 52.91            | 74.0           | 21.09       | Peak     | 189.00         | 200         | Horizontal | Pass    |
| 3** | 4937.381        | 40.03            | 54.0           | 13.97       | AV       | 189.00         | 200         | Horizontal | Pass    |
| 4   | 6808.127        | 57.01            | 74.0           | 16.99       | Peak     | 132.00         | 300         | Horizontal | Pass    |
| 4** | 6808.127        | 45.71            | 54.0           | 8.29        | AV       | 132.00         | 300         | Horizontal | Pass    |
| 5   | 13409.934       | 54.93            | 74.0           | 19.07       | Peak     | 39.00          | 200         | Horizontal | Pass    |
| 5** | 13409.934       | 44.38            | 54.0           | 9.62        | AV       | 39.00          | 200         | Horizontal | Pass    |
| 6   | 17426.238       | 54.31            | 74.0           | 19.69       | Peak     | 343.00         | 200         | Horizontal | Pass    |
| 6** | 17426.238       | 49.51            | 54.0           | 4.49        | AV       | 343.00         | 200         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n40 High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1331.029        | 43.83            | 74.0           | 30.17       | Peak     | 119.00         | 100         | Vertical | Pass    |
| 1** | 1331.029        | 36.96            | 54.0           | 17.04       | AV       | 119.00         | 100         | Vertical | Pass    |
| 2   | 2983.038        | 50.82            | 74.0           | 23.18       | Peak     | 119.00         | 100         | Vertical | Pass    |
| 2** | 2983.038        | 42.64            | 54.0           | 11.36       | AV       | 119.00         | 100         | Vertical | Pass    |
| 3   | 4850.962        | 47.73            | 74.0           | 26.27       | Peak     | 118.00         | 200         | Vertical | Pass    |
| 3** | 4850.962        | 41.00            | 54.0           | 13.00       | AV       | 118.00         | 200         | Vertical | Pass    |
| 4   | 6611.119        | 54.41            | 74.0           | 19.59       | Peak     | 59.00          | 400         | Vertical | Pass    |
| 4** | 6611.119        | 47.89            | 54.0           | 6.11        | AV       | 59.00          | 400         | Vertical | Pass    |
| 5   | 13437.674       | 58.30            | 74.0           | 15.70       | Peak     | 131.00         | 100         | Vertical | Pass    |
| 5** | 13437.674       | 47.71            | 54.0           | 6.29        | AV       | 131.00         | 100         | Vertical | Pass    |
| 6   | 17414.554       | 58.91            | 74.0           | 15.09       | Peak     | 99.00          | 200         | Vertical | Pass    |
| 6** | 17414.554       | 46.51            | 54.0           | 7.49        | AV       | 99.00          | 200         | Vertical | Pass    |

## A.7 Band Edge (Restricted-band band-edge)

Note<sup>1</sup>: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note<sup>2</sup>: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note<sup>3</sup>: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

### Test Data

#### 802.11b LOW CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2383.826        | 57.7             | 74.0           | 16.30       | Peak     | 289.00         | 200         | Horizontal | Pass    |
| 1** | 2383.826        | 46.38            | 54.0           | 7.62        | AV       | 289.00         | 200         | Horizontal | Pass    |
| 2   | 2390.000        | 54.51            | 74.0           | 19.49       | Peak     | 154.00         | 200         | Horizontal | Pass    |
| 2** | 2390.000        | 45.34            | 54.0           | 8.66        | AV       | 154.00         | 200         | Horizontal | Pass    |

#### 802.11b HIGH CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2483.500        | 56.99            | 74.0           | 17.01       | Peak     | 311.00         | 200         | Horizontal | Pass    |
| 1** | 2483.500        | 46.92            | 54.0           | 7.08        | AV       | 311.00         | 200         | Horizontal | Pass    |
| 2   | 2486.195        | 58.76            | 74.0           | 15.24       | Peak     | 120.00         | 100         | Horizontal | Pass    |
| 2** | 2486.195        | 44.82            | 54.0           | 9.18        | AV       | 120.00         | 100         | Horizontal | Pass    |

#### 802.11g LOW CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2384.377        | 59.44            | 74.0           | 14.56       | Peak     | 229.00         | 300         | Horizontal | Pass    |
| 1** | 2384.377        | 47.62            | 54.0           | 6.38        | AV       | 229.00         | 300         | Horizontal | Pass    |
| 2   | 2390.000        | 56.42            | 74.0           | 17.58       | Peak     | 304.00         | 300         | Horizontal | Pass    |
| 2** | 2390.000        | 44.45            | 54.0           | 9.55        | AV       | 304.00         | 300         | Horizontal | Pass    |

#### 802.11g HIGH CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2483.500        | 56               | 74.0           | 18.00       | Peak     | 103.00         | 200         | Horizontal | Pass    |
| 1** | 2483.500        | 44.97            | 54.0           | 9.03        | AV       | 103.00         | 200         | Horizontal | Pass    |
| 2   | 2487.271        | 57.69            | 74.0           | 16.31       | Peak     | 219.00         | 300         | Horizontal | Pass    |
| 2** | 2487.271        | 47.44            | 54.0           | 6.56        | AV       | 219.00         | 300         | Horizontal | Pass    |

## 802.11n20 LOW CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2385.776        | 58.89            | 74.0           | 15.11       | Peak     | 85.00          | 200         | Horizontal | Pass    |
| 1** | 2385.776        | 46.76            | 54.0           | 7.24        | AV       | 85.00          | 200         | Horizontal | Pass    |
| 2   | 2390.000        | 53.92            | 74.0           | 20.08       | Peak     | 249.00         | 200         | Horizontal | Pass    |
| 2** | 2390.000        | 46.06            | 54.0           | 7.94        | AV       | 249.00         | 200         | Horizontal | Pass    |

## 802.11n20 HIGH CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2483.500        | 54.41            | 74.0           | 19.59       | Peak     | 43.00          | 100         | Horizontal | Pass    |
| 1** | 2483.500        | 47.4             | 54.0           | 6.60        | AV       | 43.00          | 100         | Horizontal | Pass    |
| 2   | 2487.526        | 58.66            | 74.0           | 15.34       | Peak     | 149.00         | 100         | Horizontal | Pass    |
| 2** | 2487.526        | 44.26            | 54.0           | 9.74        | AV       | 149.00         | 100         | Horizontal | Pass    |

## 802.11n40 LOW CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2386.260        | 59.26            | 74.0           | 14.74       | Peak     | 323.00         | 200         | Horizontal | Pass    |
| 1** | 2386.260        | 47.53            | 54.0           | 6.47        | AV       | 323.00         | 200         | Horizontal | Pass    |
| 2   | 2390.000        | 56.72            | 74.0           | 17.28       | Peak     | 267.00         | 100         | Horizontal | Pass    |
| 2** | 2390.000        | 44.21            | 54.0           | 9.79        | AV       | 267.00         | 100         | Horizontal | Pass    |

## 802.11n40 HIGH CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2483.500        | 55.35            | 74.0           | 18.65       | Peak     | 198.00         | 200         | Horizontal | Pass    |
| 1** | 2483.500        | 44.33            | 54.0           | 9.67        | AV       | 198.00         | 200         | Horizontal | Pass    |
| 2   | 2487.271        | 57.24            | 74.0           | 16.76       | Peak     | 36.00          | 300         | Horizontal | Pass    |
| 2** | 2487.271        | 48               | 54.0           | 6.00        | AV       | 36.00          | 300         | Horizontal | Pass    |

## A.8 Power Spectral Density (PSD)

### Test Data

#### 802.11b Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -8.33                                | 8                |
| Middle  | -7.88                                | 8                |
| High    | -7.29                                | 8                |

#### 802.11g Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -9.70                                | 8                |
| Middle  | -8.84                                | 8                |
| High    | -9.15                                | 8                |

#### 802.11n-20 MHz Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -10.93                               | 8                |
| Middle  | -9.00                                | 8                |
| High    | -9.71                                | 8                |

#### 802.11n-40 MHz Mode:

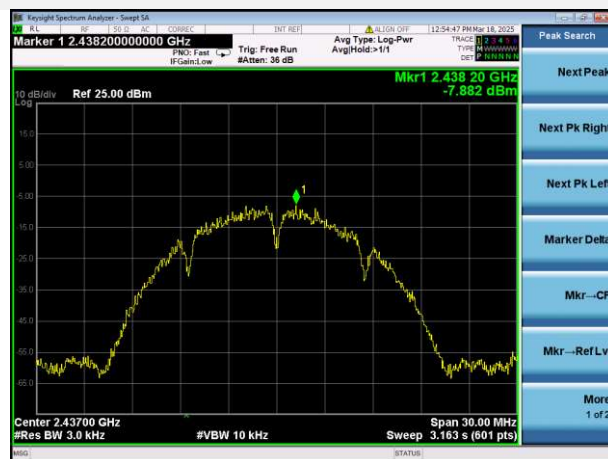
| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -11.92                               | 8                |
| Middle  | -12.38                               | 8                |
| High    | -11.48                               | 8                |

## Test Plots

802.11b LOW CHANNEL



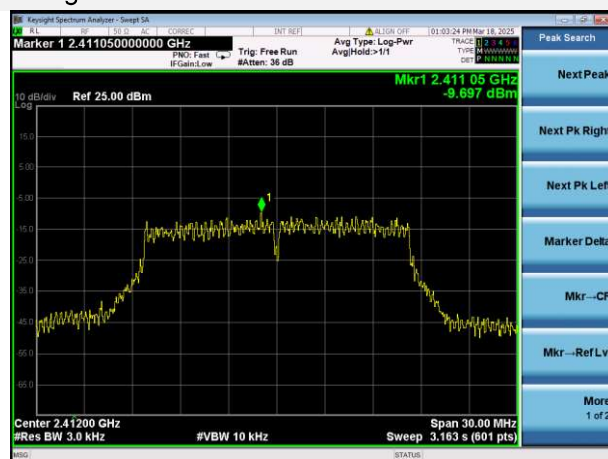
802.11b MIDDLE CHANNEL



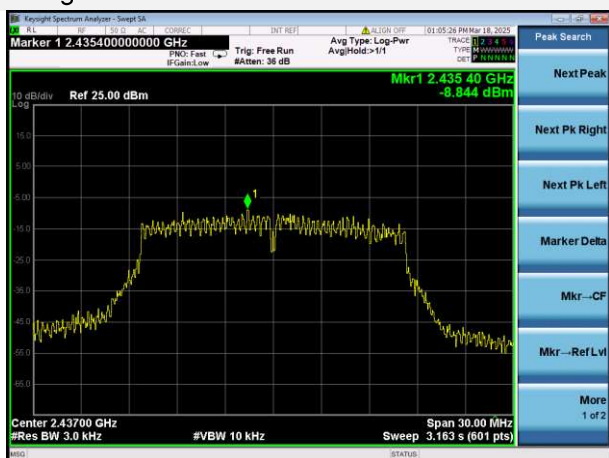
802.11b HIGH CHANNEL



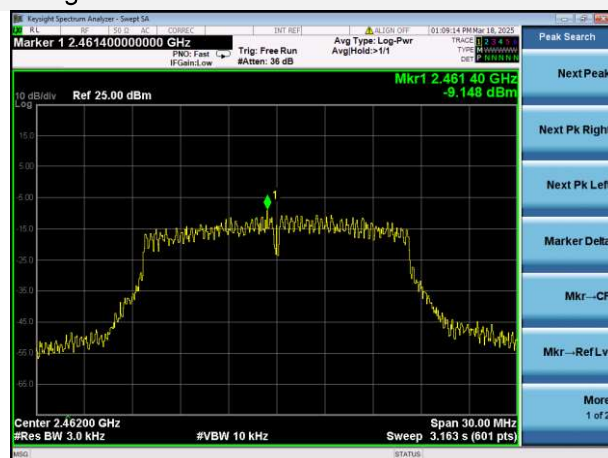
802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL

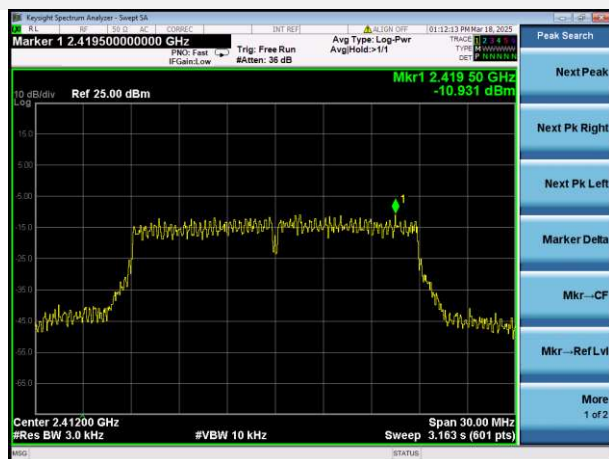


802.11g HIGH CHANNEL

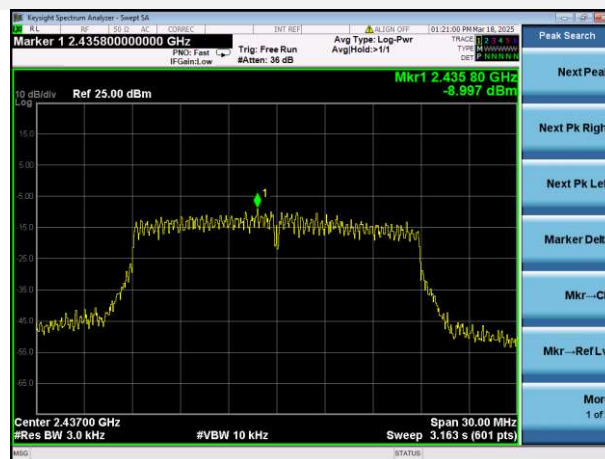




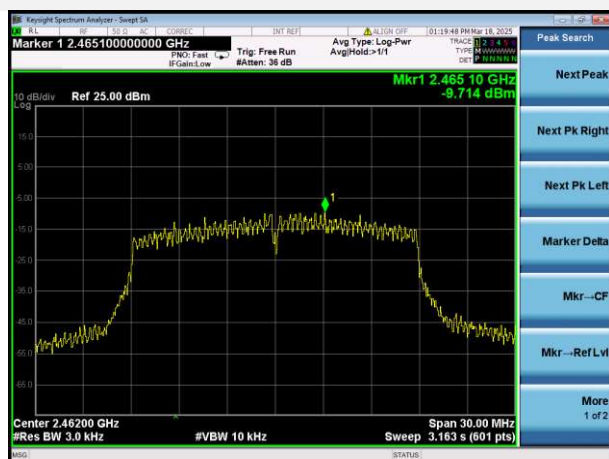
## 802.11n-20 MHz LOW CHANNEL



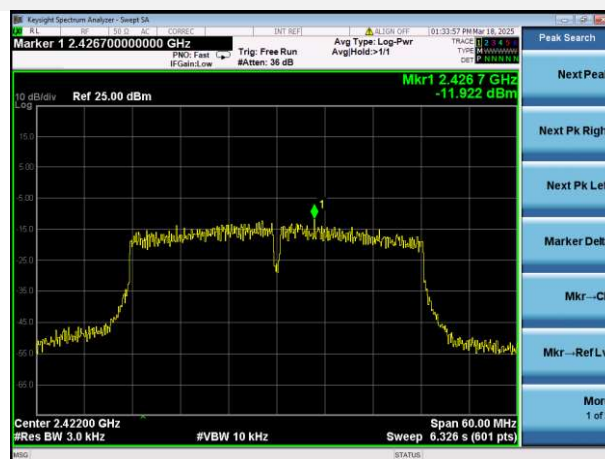
## 802.11n-20 MHz MIDDLE CHANNEL



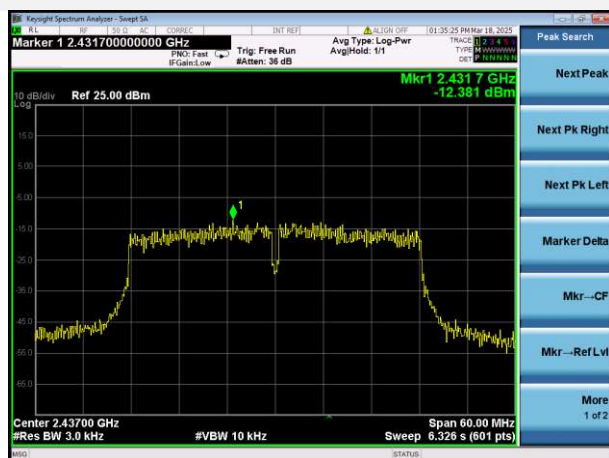
## 802.11n-20 MHz HIGH CHANNEL



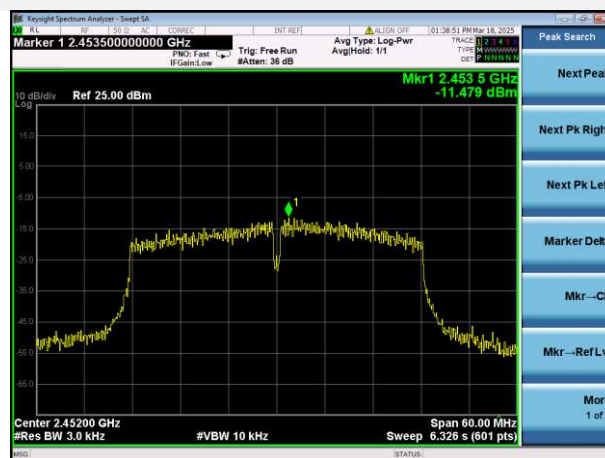
## 802.11n-40 MHz LOW CHANNEL



## 802.11n-40 MHz MIDDLE CHANNEL



## 802.11n-40 MHz HIGH CHANNEL



## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ2530714-AR.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2530714-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ2530714-AI.PDF”.



## Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--