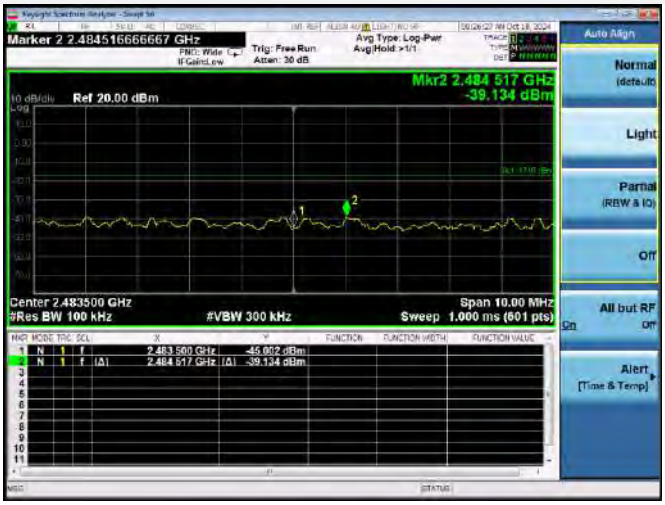
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL

802.11n-40 MHz LOW CHANNEL, BAND EDGE

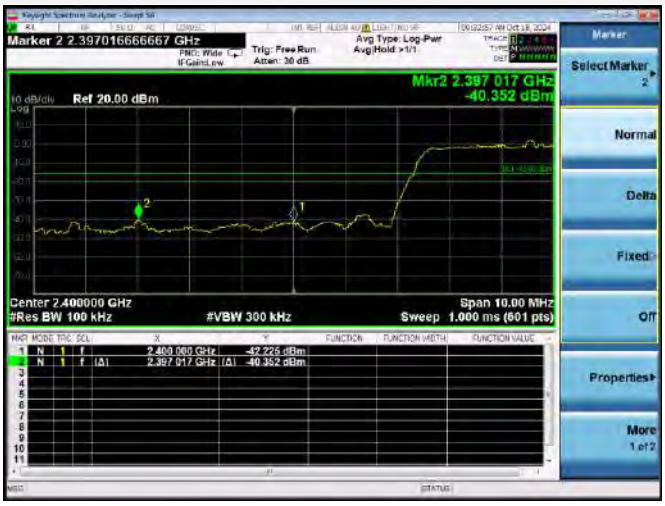
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL

802.11n-40 MHz HIGH CHANNEL, BAND EDGE

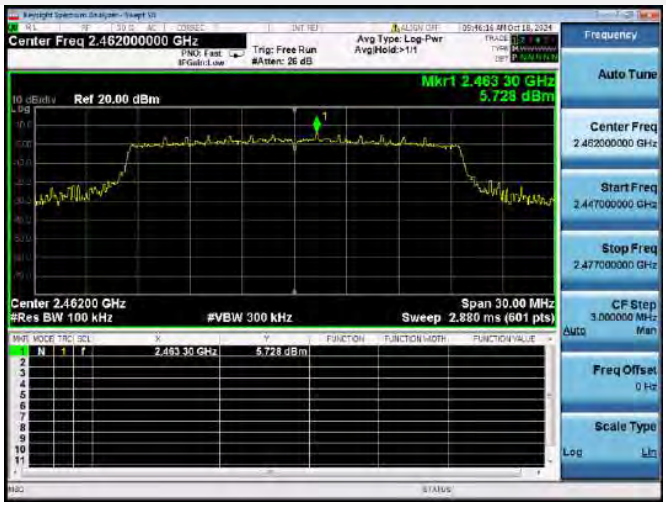



802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL

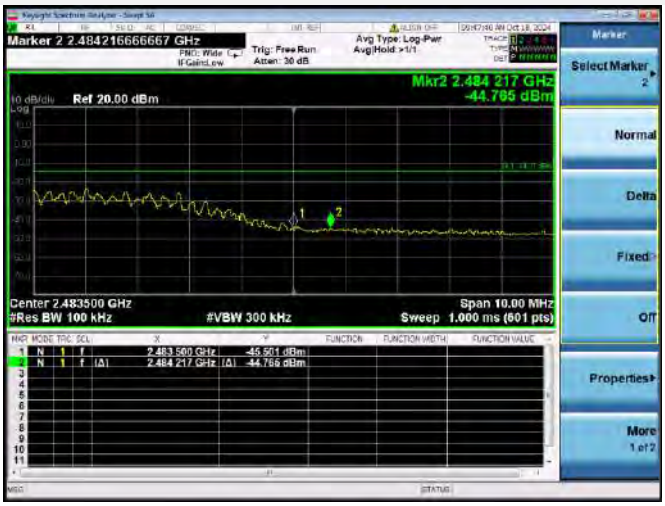
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



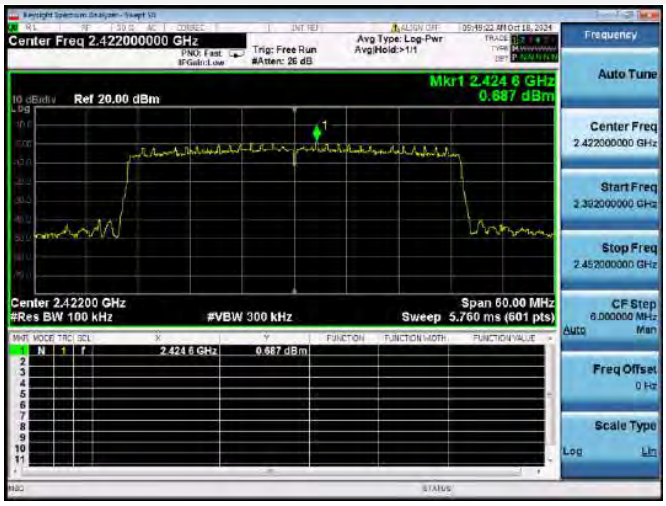
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL




802.11ax-20 MHz(SU) HIGH CHANNEL, BAND EDGE

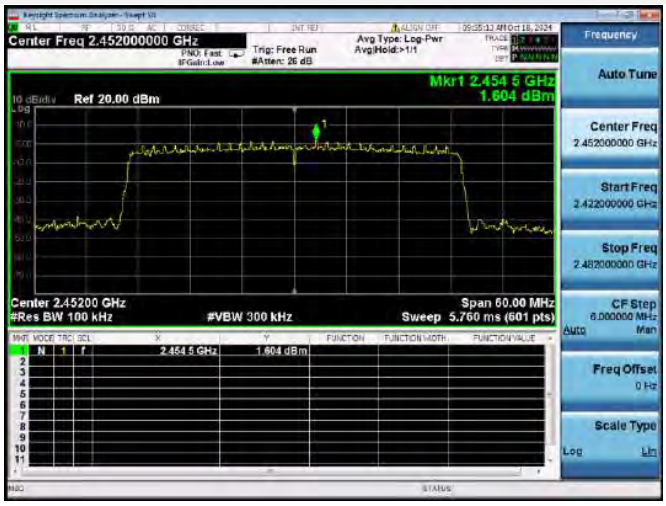



802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL

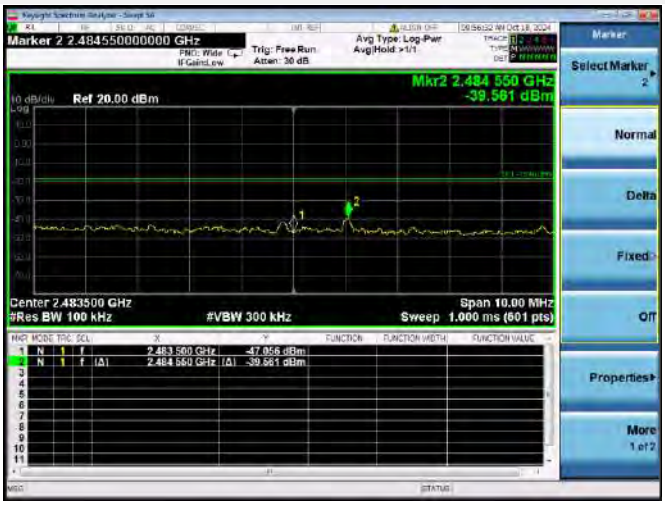



802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE

802.11ax-40 MHz(SU) HIGH CHANNEL, CARRIER LEVEL




802.11ax-40 MHz(SU) HIGH CHANNEL, BAND EDGE



## A.5 Conducted Emission

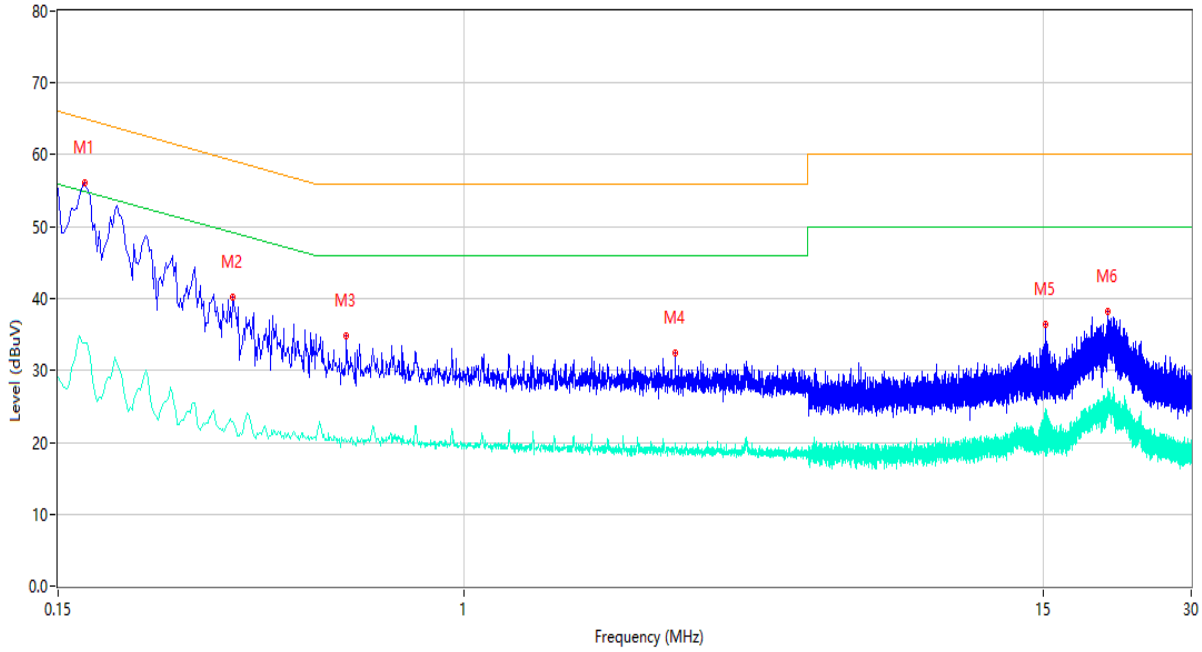
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note 2: 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 3: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

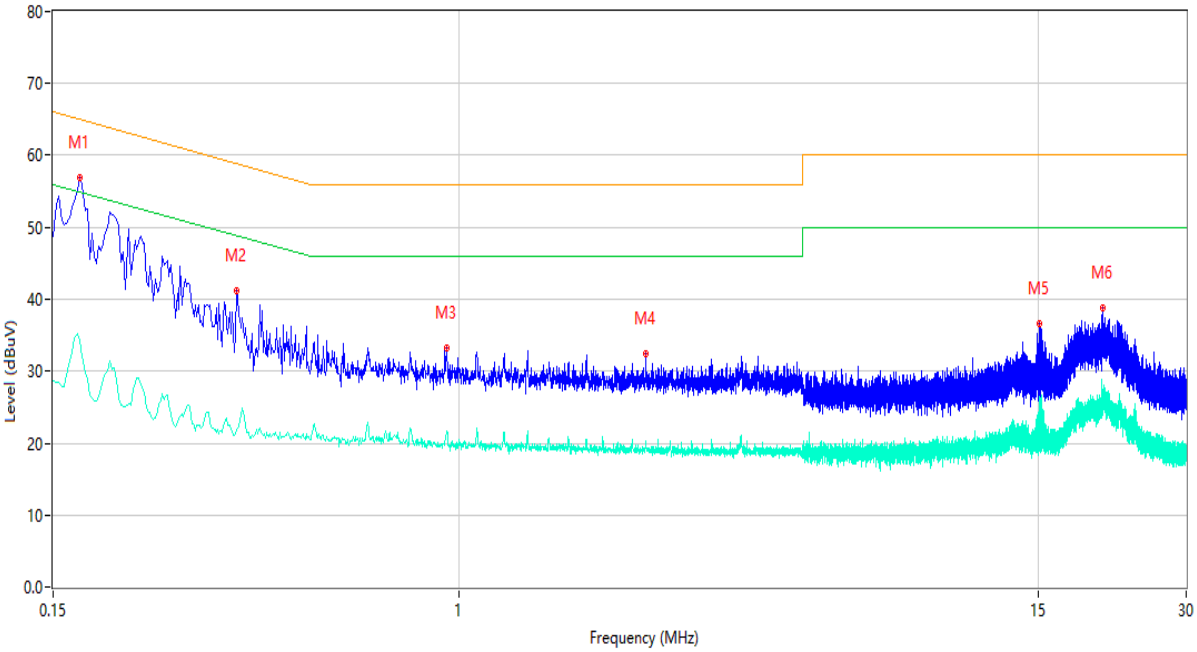
Test Data and Plots

PHASE L




| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin(dB) | Detector | Line | Verdict |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.170 | 56.17 | 9.75 | 64.96 | 8.79 | Peak | L | Pass |
| 1** | 0.170 | 33.76 | 9.75 | 54.96 | 21.20 | AV | L | Pass |
| 2 | 0.340 | 40.24 | 9.74 | 59.20 | 18.96 | Peak | L | Pass |
| 2** | 0.340 | 22.91 | 9.74 | 49.20 | 26.29 | AV | L | Pass |
| 3 | 0.578 | 34.88 | 9.73 | 56.00 | 21.12 | Peak | L | Pass |
| 3** | 0.578 | 20.07 | 9.73 | 46.00 | 25.93 | AV | L | Pass |
| 4 | 2.688 | 32.44 | 9.67 | 56.00 | 23.56 | Peak | L | Pass |
| 4** | 2.688 | 19.79 | 9.67 | 46.00 | 26.21 | AV | L | Pass |
| 5 | 15.192 | 36.40 | 9.24 | 60.00 | 23.60 | Peak | L | Pass |
| 5** | 15.192 | 23.03 | 9.24 | 50.00 | 26.97 | AV | L | Pass |
| 6 | 20.278 | 38.24 | 8.93 | 60.00 | 21.76 | Peak | L | Pass |
| 6** | 20.278 | 25.12 | 8.93 | 50.00 | 24.88 | AV | L | Pass |

PHASE N



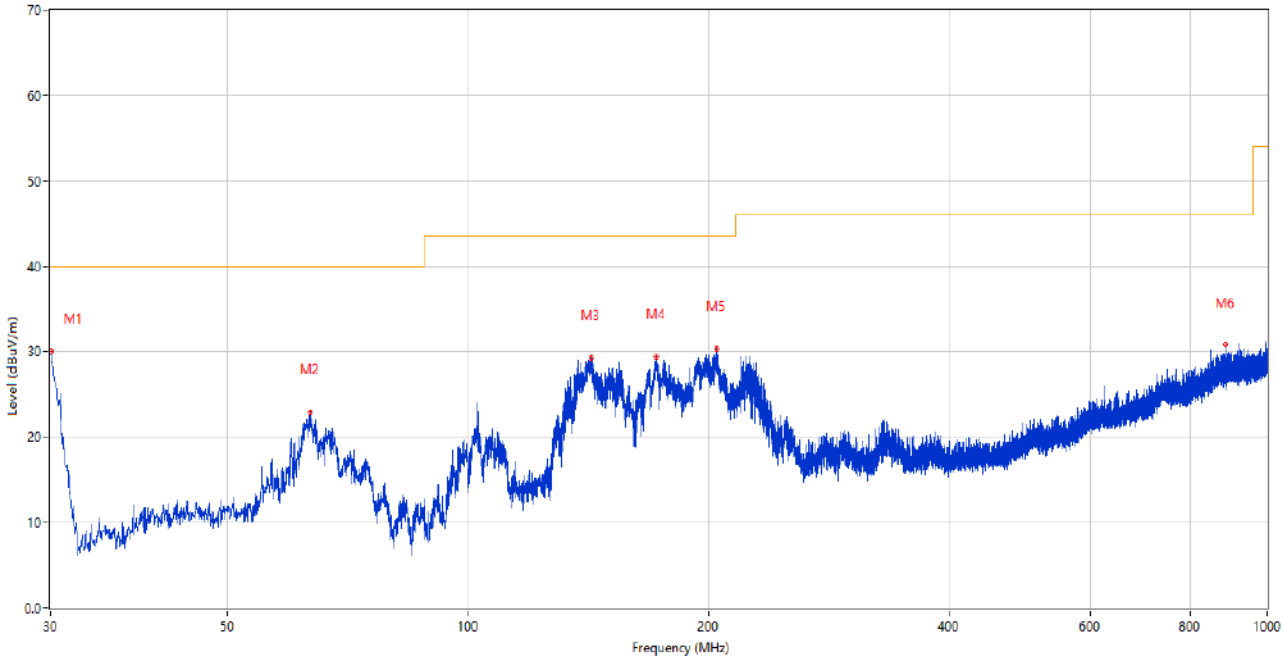

| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin(dB) | Detector | Line | Verdict |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.170 | 56.92 | 9.72 | 64.96 | 8.04 | Peak | N | Pass |
| 1** | 0.170 | 34.18 | 9.72 | 54.96 | 20.78 | AV | N | Pass |
| 2 | 0.354 | 41.10 | 9.77 | 58.87 | 17.77 | Peak | N | Pass |
| 2** | 0.354 | 21.90 | 9.77 | 48.87 | 26.97 | AV | N | Pass |
| 3 | 0.944 | 33.30 | 9.86 | 56.00 | 22.70 | Peak | N | Pass |
| 3** | 0.944 | 21.73 | 9.86 | 46.00 | 24.27 | AV | N | Pass |
| 4 | 2.396 | 32.35 | 9.86 | 56.00 | 23.65 | Peak | N | Pass |
| 4** | 2.396 | 20.16 | 9.86 | 46.00 | 25.84 | AV | N | Pass |
| 5 | 15.078 | 36.70 | 9.51 | 60.00 | 23.30 | Peak | N | Pass |
| 5** | 15.078 | 26.50 | 9.51 | 50.00 | 23.50 | AV | N | Pass |
| 6 | 20.262 | 38.87 | 9.12 | 60.00 | 21.13 | Peak | N | Pass |
| 6** | 20.262 | 26.09 | 9.12 | 50.00 | 23.91 | AV | N | Pass |

## A.6 Radiated Emission

Note 1: The symbol of "--" in the table which means not application.
Note 2: 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 3: 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 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

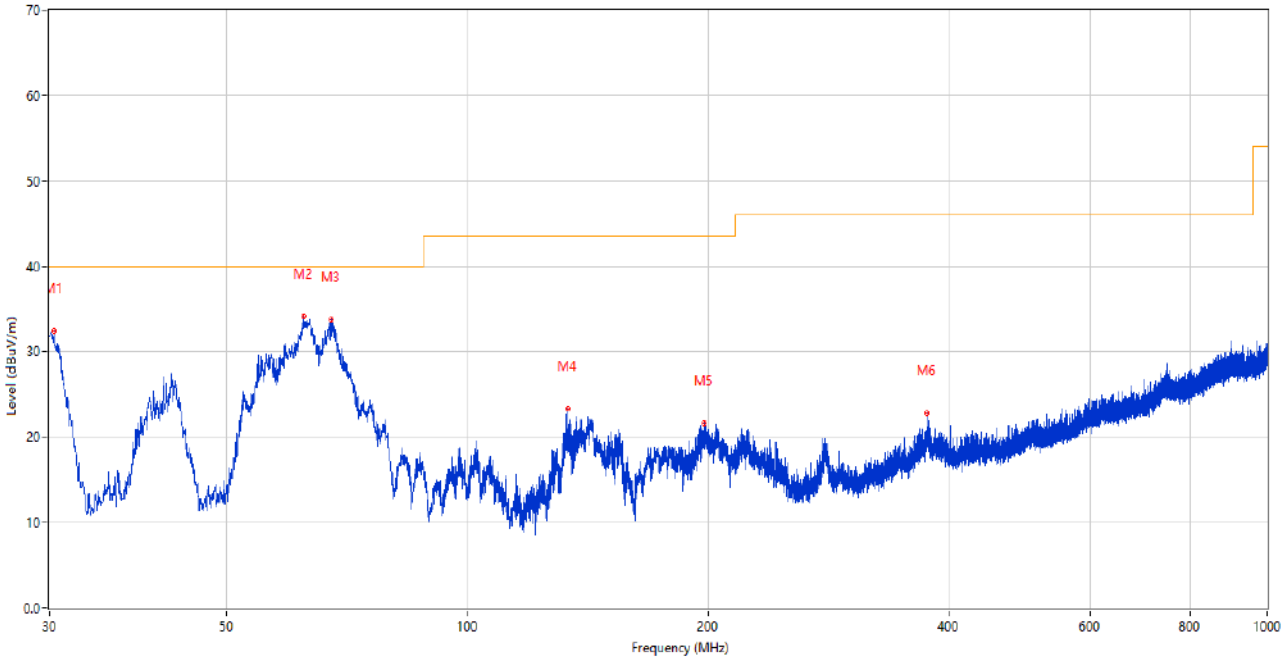
Test Data and Plots
Main Antenna:

30 MHz to 1 GHz, ANT H




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30.049 | 30.09 | -28.89 | 40.0 | 9.91 | Peak | 325.00 | 100 | Horizontal | Pass |
| 2 | 63.368 | 22.90 | -26.86 | 40.0 | 17.10 | Peak | 148.00 | 200 | Horizontal | Pass |
| 3 | 142.568 | 29.24 | -29.56 | 43.5 | 14.26 | Peak | 31.00 | 100 | Horizontal | Pass |
| 4 | 171.911 | 29.38 | -28.32 | 43.5 | 14.12 | Peak | 69.00 | 200 | Horizontal | Pass |
| 5 | 204.358 | 30.37 | -26.30 | 43.5 | 13.13 | Peak | 57.00 | 100 | Horizontal | Pass |
| 6 | 886.268 | 30.89 | -9.79 | 46.0 | 15.11 | Peak | 190.00 | 100 | Horizontal | Pass |

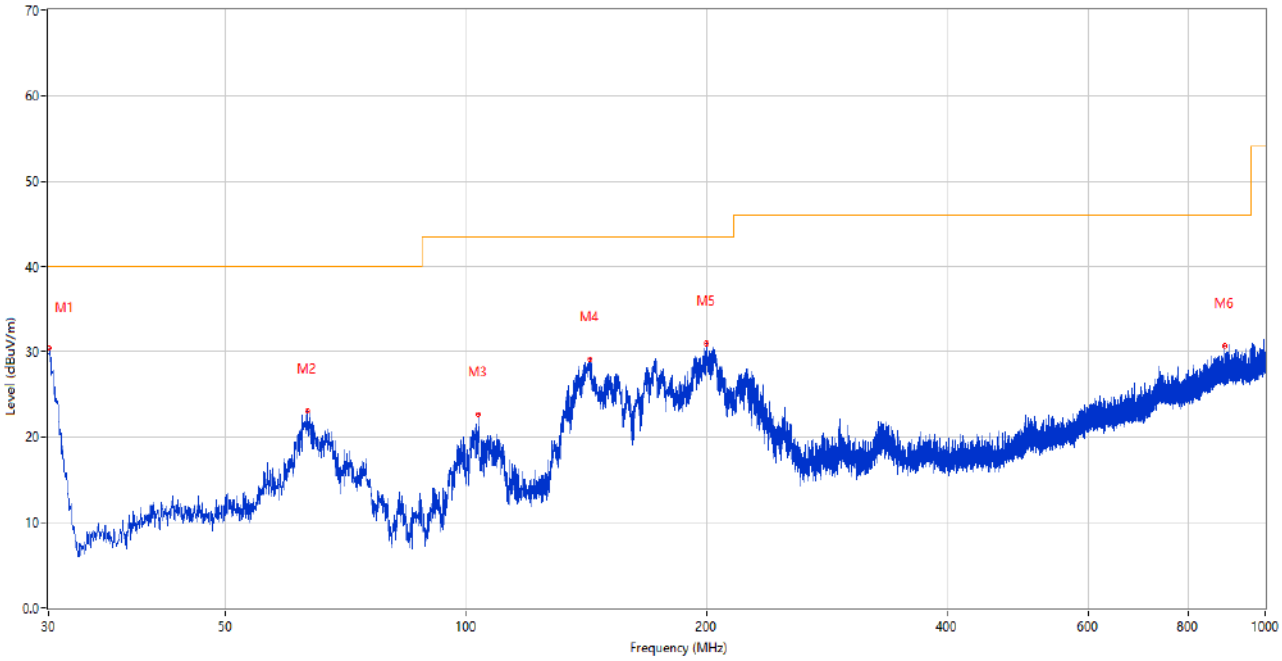
30 MHz to 1 GHz, ANT V




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30.388 | 32.38 | -28.96 | 40.0 | 7.62 | Peak | 252.00 | 100 | Vertical | Pass |
| 2 | 62.349 | 34.20 | -26.60 | 40.0 | 5.80 | Peak | 207.00 | 200 | Vertical | Pass |
| 3 | 67.588 | 33.81 | -28.19 | 40.0 | 6.19 | Peak | 42.00 | 100 | Vertical | Pass |
| 4 | 133.596 | 23.40 | -29.24 | 43.5 | 20.10 | Peak | 317.00 | 100 | Vertical | Pass |
| 5 | 197.762 | 21.60 | -25.62 | 43.5 | 21.90 | Peak | 343.00 | 200 | Vertical | Pass |
| 6 | 374.932 | 22.80 | -21.22 | 46.0 | 23.20 | Peak | 25.00 | 100 | Vertical | Pass |

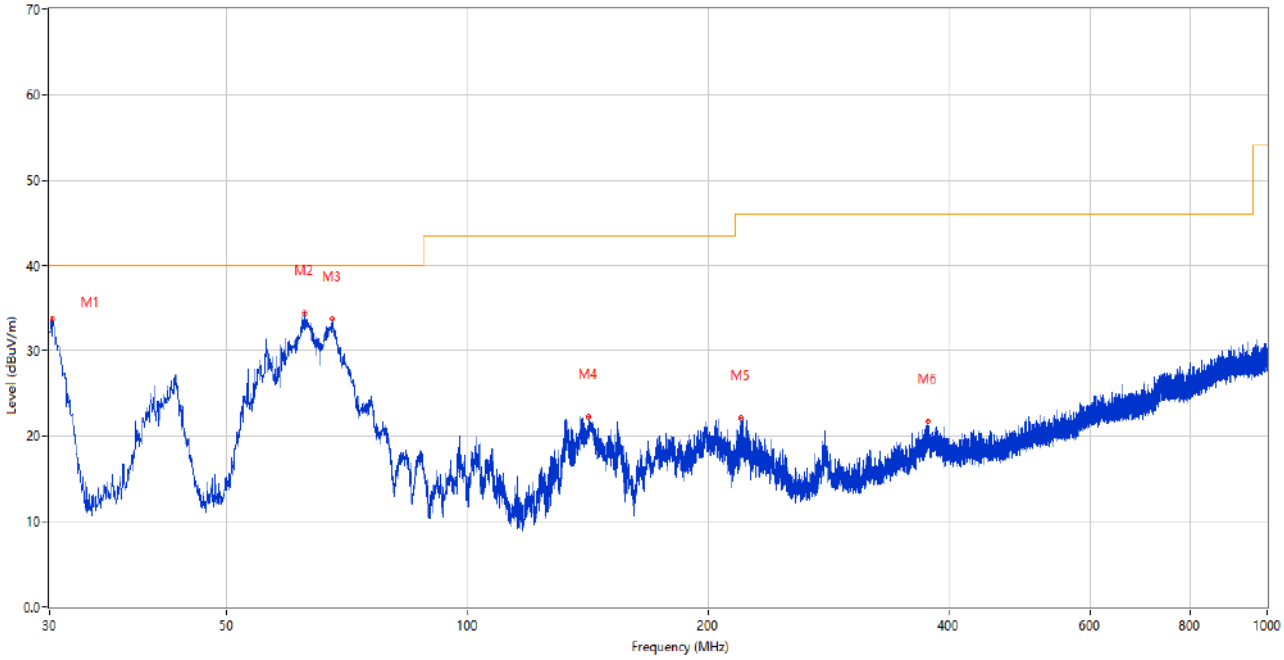
Aux. Antenna:

30 MHz to 1 GHz, ANT H




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30.097 | 30.42 | -28.90 | 40.0 | 9.58 | Peak | 239.00 | 100 | Horizontal | Pass |
| 2 | 63.271 | 23.08 | -26.83 | 40.0 | 16.92 | Peak | 181.00 | 100 | Horizontal | Pass |
| 3 | 103.672 | 22.63 | -26.11 | 43.5 | 20.87 | Peak | 115.00 | 200 | Horizontal | Pass |
| 4 | 142.860 | 29.20 | -29.57 | 43.5 | 14.30 | Peak | 3.00 | 100 | Horizontal | Pass |
| 5 | 199.750 | 30.95 | -25.75 | 43.5 | 12.55 | Peak | 66.00 | 100 | Horizontal | Pass |
| 6 | 889.808 | 30.72 | -9.69 | 46.0 | 15.28 | Peak | 231.00 | 200 | Horizontal | Pass |

30 MHz to 1 GHz, ANT V




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30.291 | 33.69 | -28.94 | 40.0 | 6.31 | Peak | 300.00 | 100 | Vertical | Pass |
| 2 | 62.641 | 34.45 | -26.68 | 40.0 | 5.55 | Peak | 227.00 | 100 | Vertical | Pass |
| 3 | 67.782 | 33.70 | -28.24 | 40.0 | 6.30 | Peak | 146.00 | 100 | Vertical | Pass |
| 4 | 141.841 | 22.27 | -29.51 | 43.5 | 21.23 | Peak | 132.00 | 200 | Vertical | Pass |
| 5 | 219.926 | 22.16 | -25.82 | 46.0 | 23.84 | Peak | 192.00 | 200 | Vertical | Pass |
| 6 | 376.290 | 21.70 | -21.15 | 46.0 | 24.30 | Peak | 8.00 | 100 | Vertical | Pass |

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

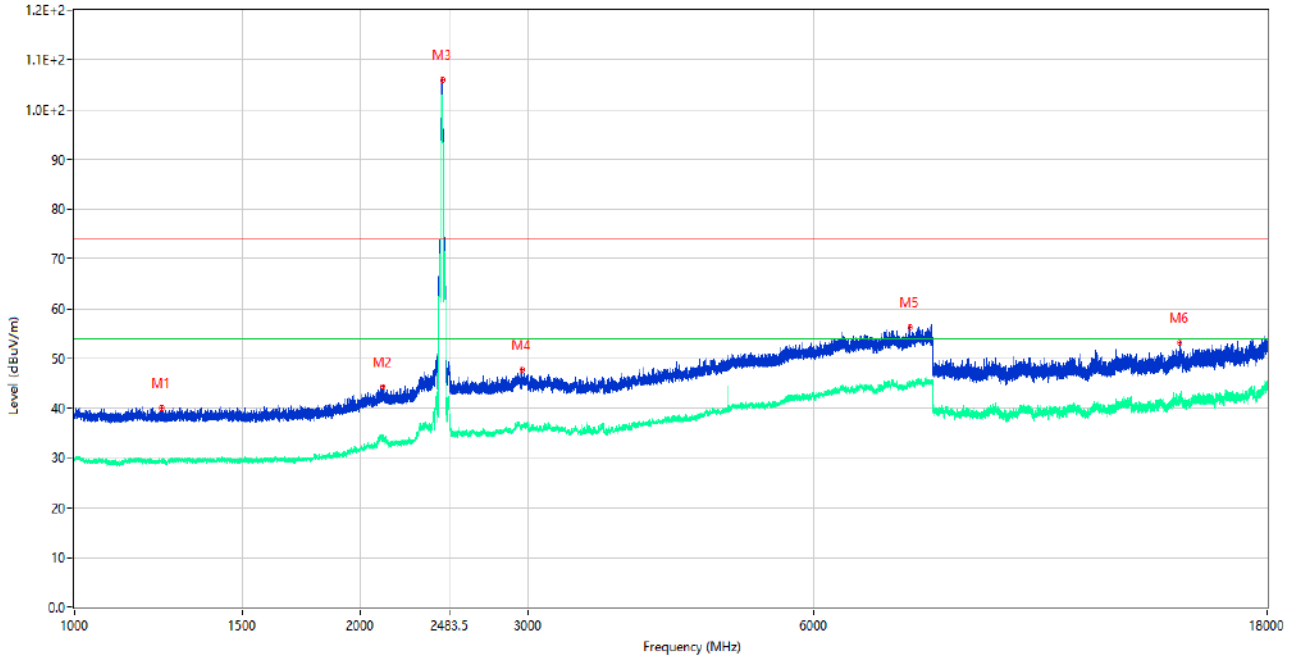
Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: All antenna were pre tested, but only the worst case has been reported in this report.

Note 4: All the configurations were pre tested, only the worst configuration has been reported in this report.

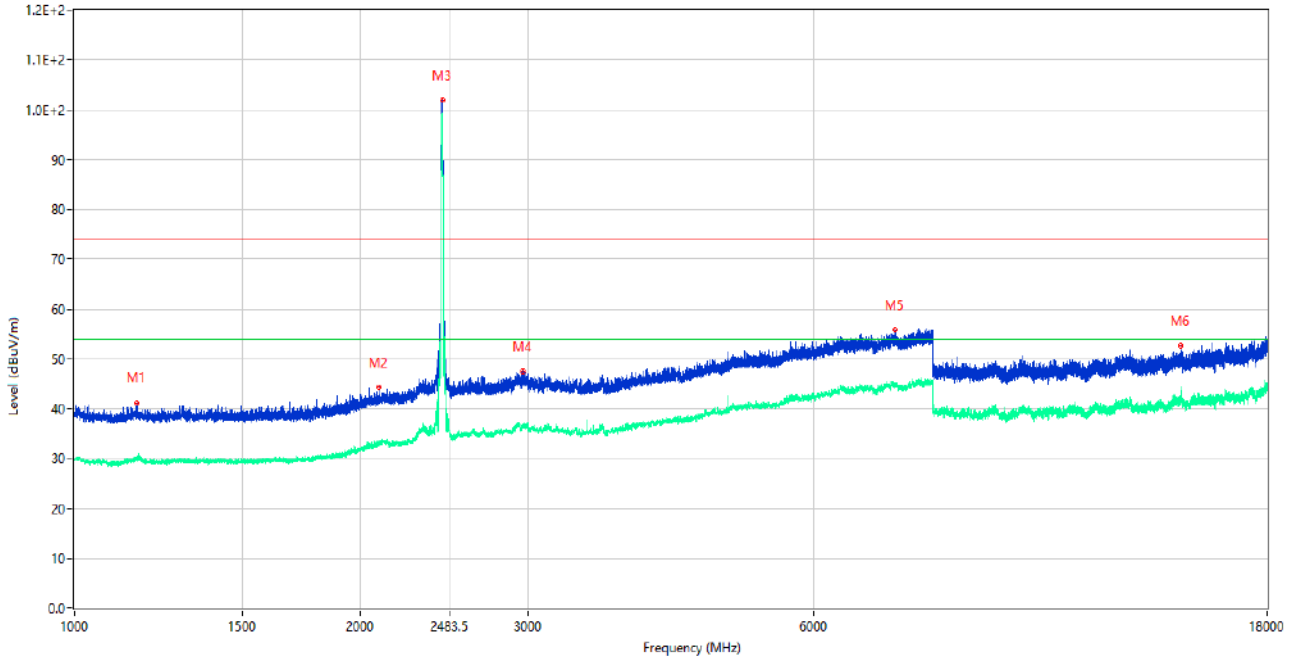
Main Antenna:

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



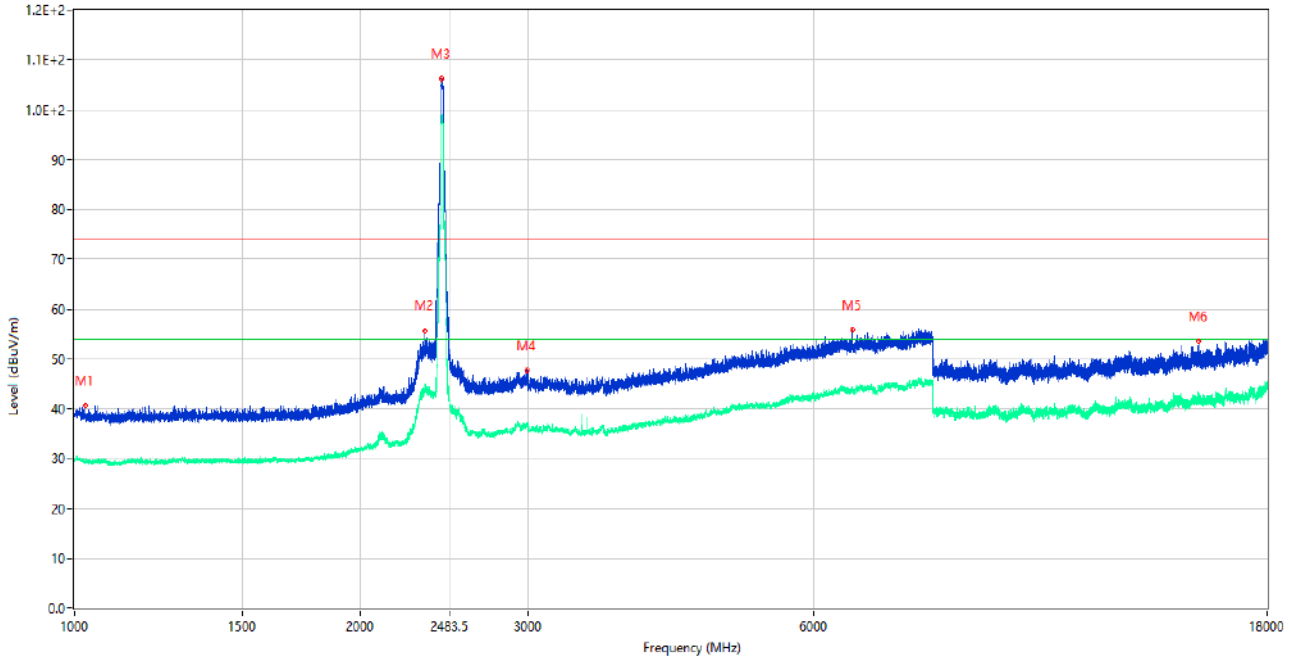

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1234.500 | 40.03 | -15.06 | 74.0 | 33.97 | Peak | 360.00 | 150 | Horizontal | Pass |
| 1** | 1234.500 | 29.30 | -15.06 | 54.0 | 24.70 | AV | 360.00 | 150 | Horizontal | Pass |
| 2 | 2113.750 | 44.32 | -12.39 | 74.0 | 29.68 | Peak | 140.00 | 150 | Horizontal | Pass |
| 2** | 2113.750 | 34.42 | -12.39 | 54.0 | 19.58 | AV | 140.00 | 150 | Horizontal | Pass |
| 3 | 2438.250 | 105.96 | -11.32 | 74.0 | -31.96 | Peak | 219.00 | 150 | Horizontal | N/A |
| 3** | 2438.250 | 102.90 | -11.32 | 54.0 | -48.90 | AV | 219.00 | 150 | Horizontal | N/A |
| 4 | 2961.000 | 47.61 | -7.63 | 74.0 | 26.39 | Peak | 38.00 | 150 | Horizontal | Pass |
| 4** | 2961.000 | 36.07 | -7.63 | 54.0 | 17.93 | AV | 38.00 | 150 | Horizontal | Pass |
| 5 | 7567.500 | 56.20 | 3.14 | 74.0 | 17.80 | Peak | 264.00 | 150 | Horizontal | Pass |
| 5** | 7567.500 | 44.99 | 3.14 | 54.0 | 9.01 | AV | 264.00 | 150 | Horizontal | Pass |
| 6 | 14584.001 | 53.14 | 0.58 | 74.0 | 20.86 | Peak | 202.00 | 150 | Horizontal | Pass |
| 6** | 14584.001 | 42.11 | 0.58 | 54.0 | 11.89 | AV | 202.00 | 150 | Horizontal | Pass |

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



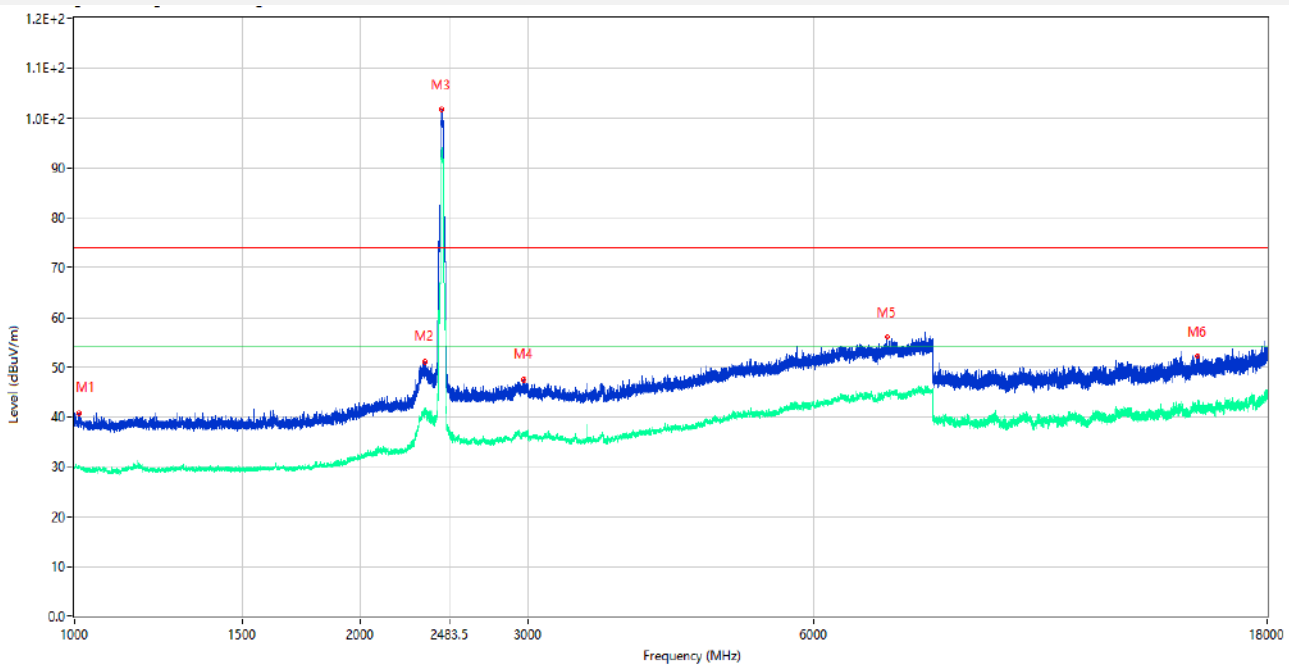

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1164.250 | 41.23 | -14.50 | 74.0 | 32.77 | Peak | 190.00 | 150 | Vertical | Pass |
| 1** | 1164.250 | 30.33 | -14.50 | 54.0 | 23.67 | AV | 190.00 | 150 | Vertical | Pass |
| 2 | 2094.000 | 44.26 | -12.45 | 74.0 | 29.74 | Peak | 293.00 | 150 | Vertical | Pass |
| 2** | 2094.000 | 32.99 | -12.45 | 54.0 | 21.01 | AV | 293.00 | 150 | Vertical | Pass |
| 3 | 2438.000 | 102.00 | -11.32 | 74.0 | -28.00 | Peak | 330.00 | 150 | Vertical | N/A |
| 3** | 2438.000 | 98.75 | -11.32 | 54.0 | -44.75 | AV | 330.00 | 150 | Vertical | N/A |
| 4 | 2967.000 | 47.40 | -7.21 | 74.0 | 26.60 | Peak | 0.00 | 150 | Vertical | Pass |
| 4** | 2967.000 | 36.73 | -7.21 | 54.0 | 17.27 | AV | 0.00 | 150 | Vertical | Pass |
| 5 | 7299.500 | 55.80 | 2.79 | 74.0 | 18.20 | Peak | 231.00 | 150 | Vertical | Pass |
| 5** | 7299.500 | 44.72 | 2.79 | 54.0 | 9.28 | AV | 231.00 | 150 | Vertical | Pass |
| 6 | 14588.000 | 52.58 | 1.00 | 74.0 | 21.42 | Peak | 355.00 | 150 | Vertical | Pass |
| 6** | 14588.000 | 42.51 | 1.00 | 54.0 | 11.49 | AV | 355.00 | 150 | Vertical | Pass |

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



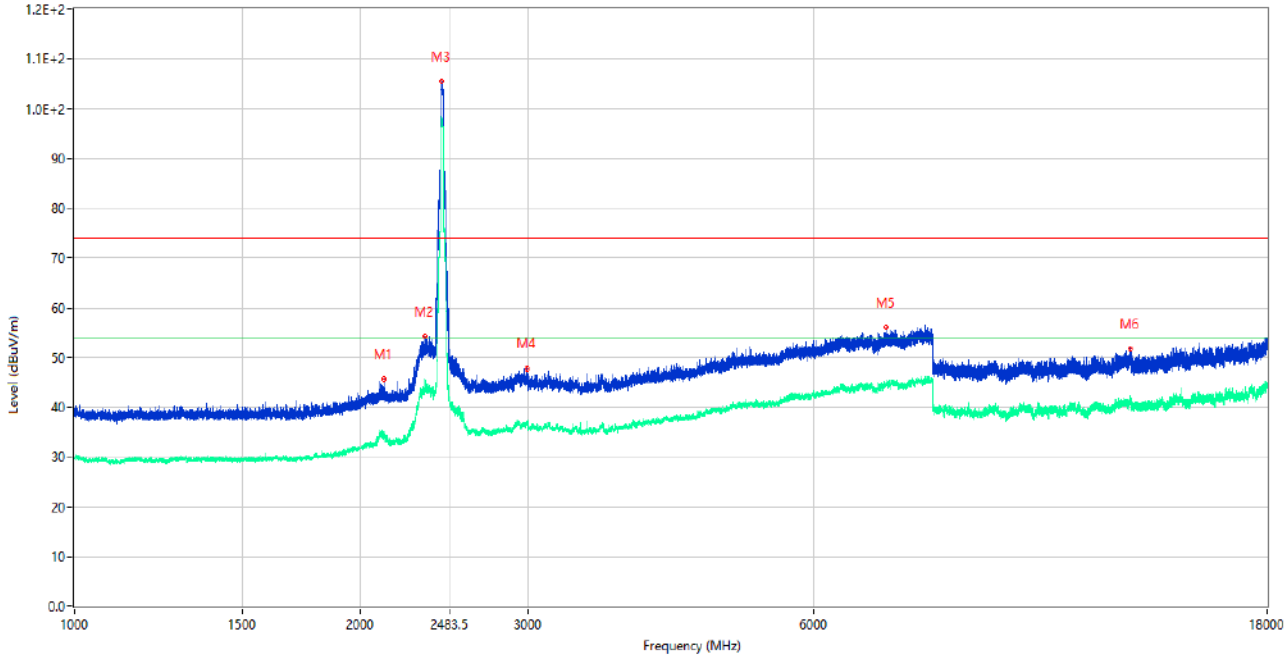

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1027.750 | 40.57 | -14.50 | 74.0 | 33.43 | Peak | 343.00 | 150 | Horizontal | Pass |
| 1** | 1027.750 | 28.97 | -14.50 | 54.0 | 25.03 | AV | 343.00 | 150 | Horizontal | Pass |
| 2 | 2337.500 | 55.58 | -10.66 | 74.0 | 18.42 | Peak | 188.00 | 150 | Horizontal | Pass |
| 2** | 2337.500 | 44.45 | -10.66 | 54.0 | 9.55 | AV | 188.00 | 150 | Horizontal | Pass |
| 3 | 2435.000 | 106.27 | -11.24 | 74.0 | -32.27 | Peak | 222.00 | 150 | Horizontal | N/A |
| 3** | 2435.000 | 98.33 | -11.24 | 54.0 | -44.33 | AV | 222.00 | 150 | Horizontal | N/A |
| 4 | 2992.250 | 47.64 | -7.77 | 74.0 | 26.36 | Peak | 0.00 | 150 | Horizontal | Pass |
| 4** | 2992.250 | 36.42 | -7.77 | 54.0 | 17.58 | AV | 0.00 | 150 | Horizontal | Pass |
| 5 | 6583.000 | 55.84 | 1.60 | 74.0 | 18.16 | Peak | 319.00 | 150 | Horizontal | Pass |
| 5** | 6583.000 | 43.86 | 1.60 | 54.0 | 10.14 | AV | 319.00 | 150 | Horizontal | Pass |
| 6 | 15259.000 | 53.56 | 2.26 | 74.0 | 20.44 | Peak | 100.00 | 150 | Horizontal | Pass |
| 6** | 15259.000 | 42.79 | 2.26 | 54.0 | 11.21 | AV | 100.00 | 150 | Horizontal | Pass |

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



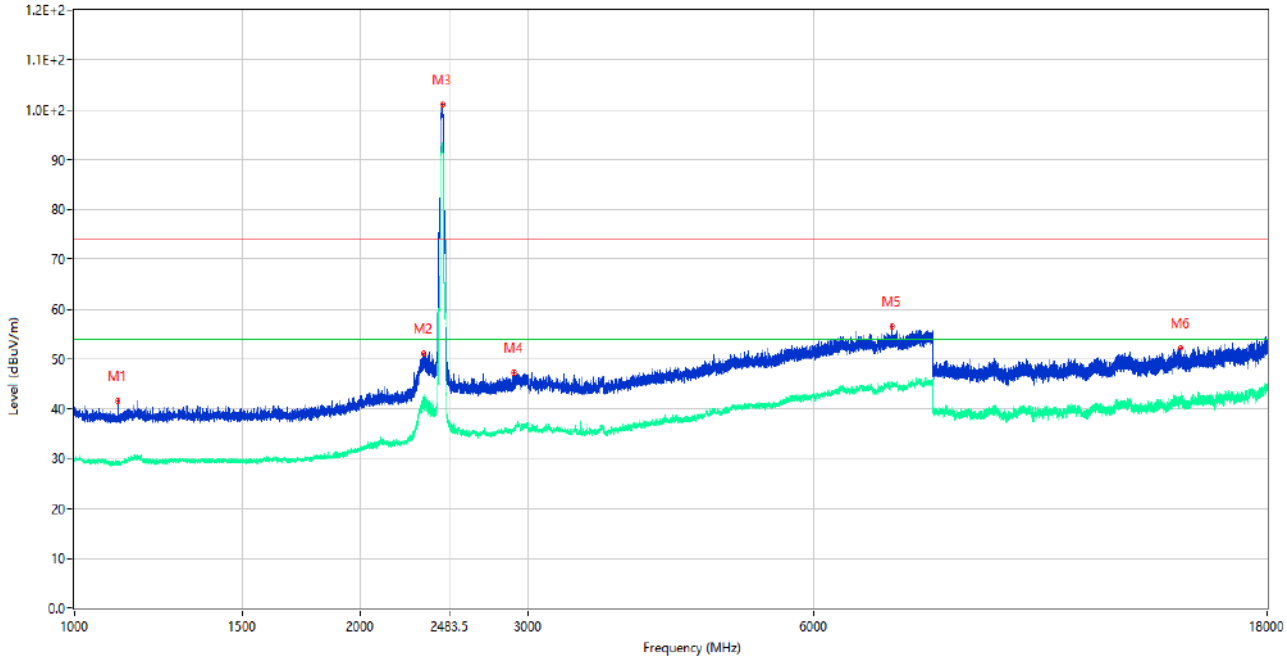

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1012.250 | 40.74 | -13.49 | 74.0 | 33.26 | Peak | 138.00 | 150 | Vertical | Pass |
| 1** | 1012.250 | 29.97 | -13.49 | 54.0 | 24.03 | AV | 138.00 | 150 | Vertical | Pass |
| 2 | 2337.250 | 51.17 | -10.66 | 74.0 | 22.83 | Peak | 314.00 | 150 | Vertical | Pass |
| 2** | 2337.250 | 41.92 | -10.66 | 54.0 | 12.08 | AV | 314.00 | 150 | Vertical | Pass |
| 3 | 2432.500 | 101.69 | -11.19 | 74.0 | -27.69 | Peak | 188.00 | 150 | Vertical | N/A |
| 3** | 2432.500 | 91.97 | -11.19 | 54.0 | -37.97 | AV | 188.00 | 150 | Vertical | N/A |
| 4 | 2974.000 | 47.55 | -7.43 | 74.0 | 26.45 | Peak | 360.00 | 150 | Vertical | Pass |
| 4** | 2974.000 | 36.62 | -7.43 | 54.0 | 17.38 | AV | 360.00 | 150 | Vertical | Pass |
| 5 | 7167.500 | 55.94 | 2.28 | 74.0 | 18.06 | Peak | 152.00 | 150 | Vertical | Pass |
| 5** | 7167.500 | 45.05 | 2.28 | 54.0 | 8.95 | AV | 152.00 | 150 | Vertical | Pass |
| 6 | 15202.500 | 52.24 | 0.75 | 74.0 | 21.76 | Peak | 350.00 | 150 | Vertical | Pass |
| 6** | 15202.500 | 42.43 | 0.75 | 54.0 | 11.57 | AV | 350.00 | 150 | Vertical | Pass |

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



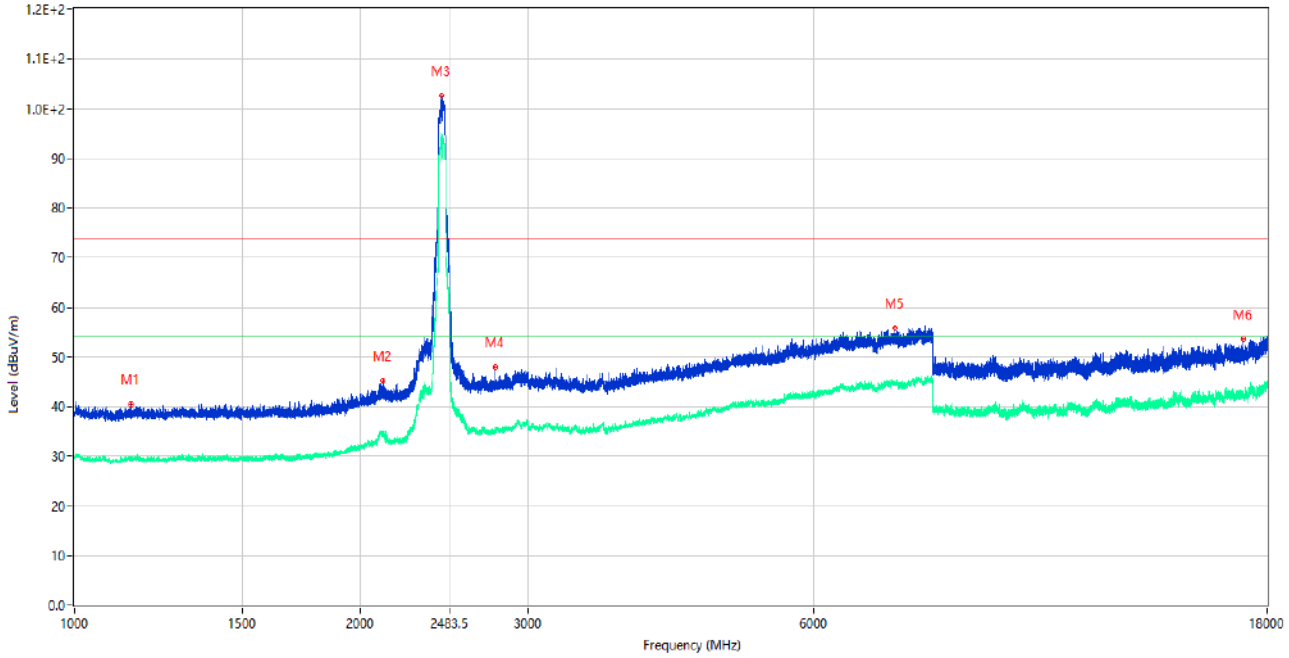

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2119.500 | 45.57 | -12.28 | 74.0 | 28.43 | Peak | 139.00 | 150 | Horizontal | Pass |
| 1** | 2119.500 | 34.34 | -12.28 | 54.0 | 19.66 | AV | 139.00 | 150 | Horizontal | Pass |
| 2 | 2336.750 | 54.29 | -10.67 | 74.0 | 19.71 | Peak | 194.00 | 150 | Horizontal | Pass |
| 2** | 2336.750 | 44.89 | -10.67 | 54.0 | 9.11 | AV | 194.00 | 150 | Horizontal | Pass |
| 3 | 2435.750 | 105.59 | -11.28 | 74.0 | -31.59 | Peak | 224.00 | 150 | Horizontal | N/A |
| 3** | 2435.750 | 98.13 | -11.28 | 54.0 | -44.13 | AV | 224.00 | 150 | Horizontal | N/A |
| 4 | 2993.000 | 47.79 | -7.71 | 74.0 | 26.21 | Peak | 66.00 | 150 | Horizontal | Pass |
| 4** | 2993.000 | 36.44 | -7.71 | 54.0 | 17.56 | AV | 66.00 | 150 | Horizontal | Pass |
| 5 | 7144.500 | 55.99 | 2.24 | 74.0 | 18.01 | Peak | 31.00 | 150 | Horizontal | Pass |
| 5** | 7144.500 | 44.64 | 2.24 | 54.0 | 9.36 | AV | 31.00 | 150 | Horizontal | Pass |
| 6 | 12923.500 | 51.81 | 0.34 | 74.0 | 22.19 | Peak | 348.00 | 150 | Horizontal | Pass |
| 6** | 12923.500 | 40.85 | 0.34 | 54.0 | 13.15 | AV | 348.00 | 150 | Horizontal | Pass |

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



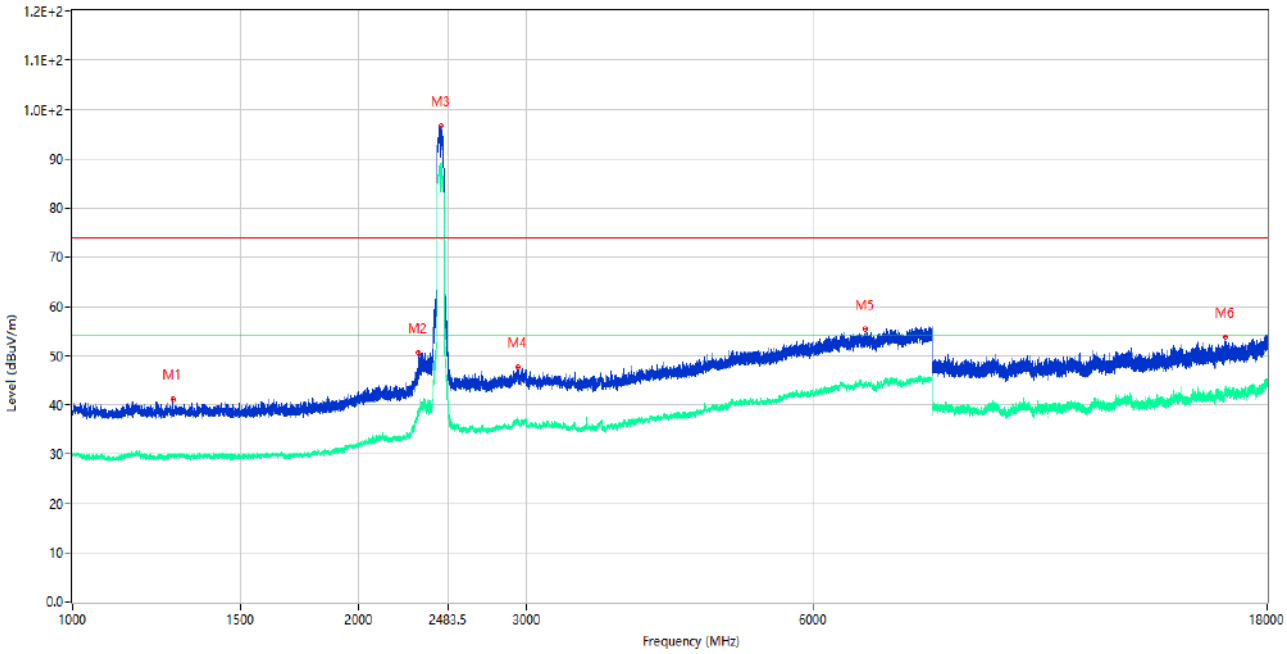

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1111.000 | 41.52 | -14.87 | 74.0 | 32.48 | Peak | 207.00 | 150 | Vertical | Pass |
| 1** | 1111.000 | 29.08 | -14.87 | 54.0 | 24.92 | AV | 207.00 | 150 | Vertical | Pass |
| 2 | 2330.000 | 51.00 | -10.88 | 74.0 | 23.00 | Peak | 319.00 | 150 | Vertical | Pass |
| 2** | 2330.000 | 41.07 | -10.88 | 54.0 | 12.93 | AV | 319.00 | 150 | Vertical | Pass |
| 3 | 2438.250 | 100.93 | -11.32 | 74.0 | -26.93 | Peak | 167.00 | 150 | Vertical | N/A |
| 3** | 2438.250 | 92.61 | -11.32 | 54.0 | -38.61 | AV | 167.00 | 150 | Vertical | N/A |
| 4 | 2898.250 | 47.31 | -8.51 | 74.0 | 26.69 | Peak | 103.00 | 150 | Vertical | Pass |
| 4** | 2898.250 | 35.55 | -8.51 | 54.0 | 18.45 | AV | 103.00 | 150 | Vertical | Pass |
| 5 | 7249.500 | 56.47 | 3.13 | 74.0 | 17.53 | Peak | 180.00 | 150 | Vertical | Pass |
| 5** | 7249.500 | 44.85 | 3.13 | 54.0 | 9.15 | AV | 180.00 | 150 | Vertical | Pass |
| 6 | 14593.000 | 52.13 | 1.30 | 74.0 | 21.87 | Peak | 41.00 | 150 | Vertical | Pass |
| 6** | 14593.000 | 43.01 | 1.30 | 54.0 | 10.99 | AV | 41.00 | 150 | Vertical | Pass |

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



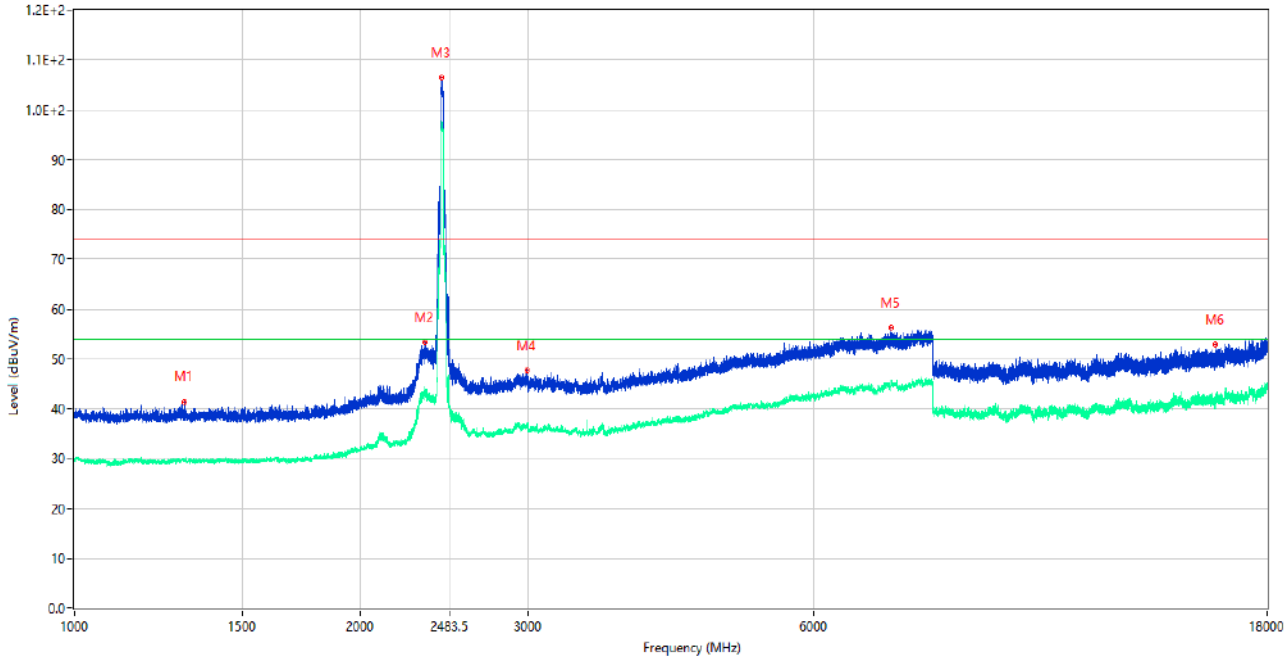

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1145.750 | 40.47 | -14.77 | 74.0 | 33.53 | Peak | 155.00 | 150 | Horizontal | Pass |
| 1** | 1145.750 | 29.43 | -14.77 | 54.0 | 24.57 | AV | 155.00 | 150 | Horizontal | Pass |
| 2 | 2114.750 | 45.28 | -12.37 | 74.0 | 28.72 | Peak | 140.00 | 150 | Horizontal | Pass |
| 2** | 2114.750 | 34.81 | -12.37 | 54.0 | 19.19 | AV | 140.00 | 150 | Horizontal | Pass |
| 3 | 2435.000 | 102.51 | -11.24 | 74.0 | -28.51 | Peak | 223.00 | 150 | Horizontal | N/A |
| 3** | 2435.000 | 94.63 | -11.24 | 54.0 | -40.63 | AV | 223.00 | 150 | Horizontal | N/A |
| 4 | 2769.000 | 47.90 | -9.11 | 74.0 | 26.10 | Peak | 352.00 | 150 | Horizontal | Pass |
| 4** | 2769.000 | 35.17 | -9.11 | 54.0 | 18.83 | AV | 352.00 | 150 | Horizontal | Pass |
| 5 | 7308.000 | 55.85 | 2.61 | 74.0 | 18.15 | Peak | 298.00 | 150 | Horizontal | Pass |
| 5** | 7308.000 | 44.56 | 2.61 | 54.0 | 9.44 | AV | 298.00 | 150 | Horizontal | Pass |
| 6 | 17004.500 | 53.64 | 2.04 | 74.0 | 20.36 | Peak | 11.00 | 150 | Horizontal | Pass |
| 6** | 17004.500 | 42.27 | 2.04 | 54.0 | 11.73 | AV | 11.00 | 150 | Horizontal | Pass |

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



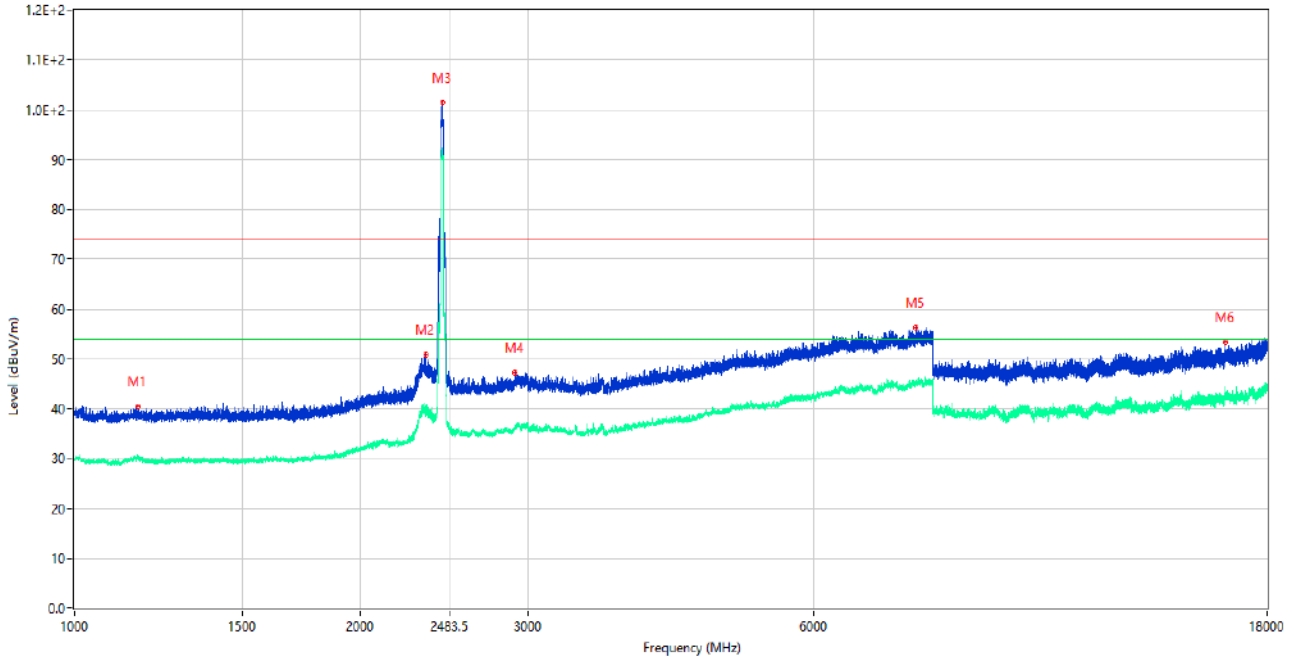

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1275.750 | 41.05 | -14.92 | 74.0 | 32.95 | Peak | 279.00 | 150 | Vertical | Pass |
| 1** | 1275.750 | 29.78 | -14.92 | 54.0 | 24.22 | AV | 279.00 | 150 | Vertical | Pass |
| 2 | 2311.250 | 50.61 | -11.18 | 74.0 | 23.39 | Peak | 320.00 | 150 | Vertical | Pass |
| 2** | 2311.250 | 39.00 | -11.18 | 54.0 | 15.00 | AV | 320.00 | 150 | Vertical | Pass |
| 3 | 2440.500 | 96.81 | -11.38 | 74.0 | -22.81 | Peak | 162.00 | 150 | Vertical | N/A |
| 3** | 2440.500 | 89.02 | -11.38 | 54.0 | -35.02 | AV | 162.00 | 150 | Vertical | N/A |
| 4 | 2934.250 | 47.59 | -6.87 | 74.0 | 26.41 | Peak | 39.00 | 150 | Vertical | Pass |
| 4** | 2934.250 | 36.68 | -6.87 | 54.0 | 17.32 | AV | 39.00 | 150 | Vertical | Pass |
| 5 | 6817.000 | 55.38 | 1.99 | 74.0 | 18.62 | Peak | 279.00 | 150 | Vertical | Pass |
| 5** | 6817.000 | 44.00 | 1.99 | 54.0 | 10.00 | AV | 279.00 | 150 | Vertical | Pass |
| 6 | 16278.000 | 53.78 | 2.16 | 74.0 | 20.22 | Peak | 233.00 | 150 | Vertical | Pass |
| 6** | 16278.000 | 42.77 | 2.16 | 54.0 | 11.23 | AV | 233.00 | 150 | Vertical | Pass |

## 1 GHz to 18 GHz, ANT H 802.11ax20(SU) Middle Channel



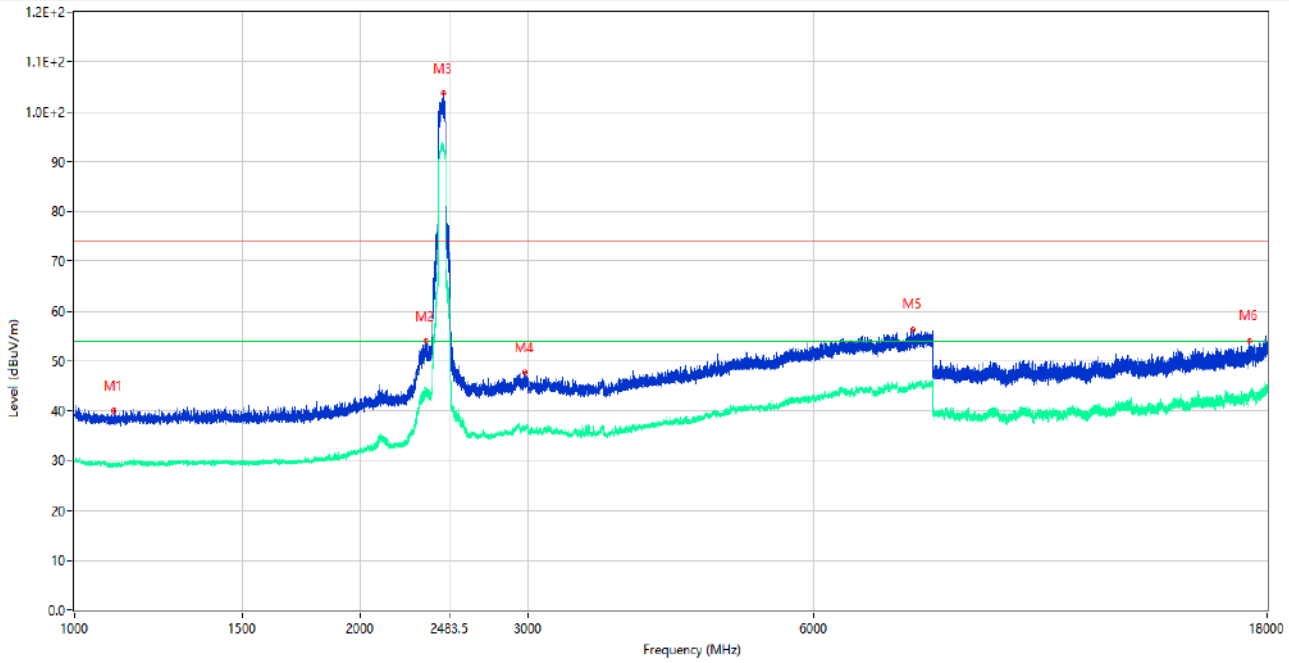

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1306.750 | 41.46 | -14.70 | 74.0 | 32.54 | Peak | 5.00 | 150 | Horizontal | Pass |
| 1** | 1306.750 | 29.52 | -14.70 | 54.0 | 24.48 | AV | 5.00 | 150 | Horizontal | Pass |
| 2 | 2338.000 | 53.40 | -10.65 | 74.0 | 20.60 | Peak | 190.00 | 150 | Horizontal | Pass |
| 2** | 2338.000 | 43.97 | -10.65 | 54.0 | 10.03 | AV | 190.00 | 150 | Horizontal | Pass |
| 3 | 2436.250 | 106.37 | -11.30 | 74.0 | -32.37 | Peak | 190.00 | 150 | Horizontal | N/A |
| 3** | 2436.250 | 97.54 | -11.30 | 54.0 | -43.54 | AV | 190.00 | 150 | Horizontal | N/A |
| 4 | 2997.000 | 47.61 | -7.53 | 74.0 | 26.39 | Peak | 132.00 | 150 | Horizontal | Pass |
| 4** | 2997.000 | 36.46 | -7.53 | 54.0 | 17.54 | AV | 132.00 | 150 | Horizontal | Pass |
| 5 | 7243.500 | 56.25 | 3.09 | 74.0 | 17.75 | Peak | 80.00 | 150 | Horizontal | Pass |
| 5** | 7243.500 | 44.74 | 3.09 | 54.0 | 9.26 | AV | 80.00 | 150 | Horizontal | Pass |
| 6 | 15887.500 | 52.93 | 1.47 | 74.0 | 21.07 | Peak | 173.00 | 150 | Horizontal | Pass |
| 6** | 15887.500 | 42.44 | 1.47 | 54.0 | 11.56 | AV | 173.00 | 150 | Horizontal | Pass |

## 1 GHz to 18 GHz, ANT V 802.11ax20(SU) Middle Channel



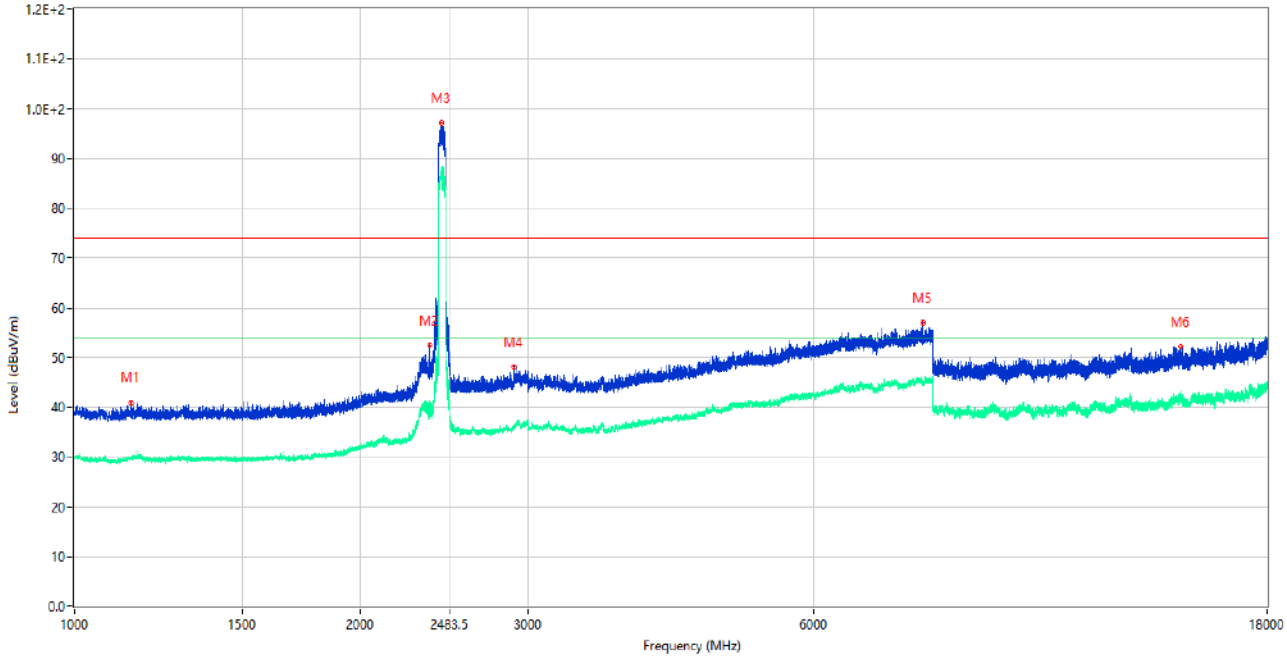

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1165.250 | 40.48 | -14.50 | 74.0 | 33.52 | Peak | 166.00 | 150 | Vertical | Pass |
| 1** | 1165.250 | 29.89 | -14.50 | 54.0 | 24.11 | AV | 166.00 | 150 | Vertical | Pass |
| 2 | 2342.750 | 50.79 | -10.80 | 74.0 | 23.21 | Peak | 329.00 | 150 | Vertical | Pass |
| 2** | 2342.750 | 40.29 | -10.80 | 54.0 | 13.71 | AV | 329.00 | 150 | Vertical | Pass |
| 3 | 2439.250 | 101.38 | -11.33 | 74.0 | -27.38 | Peak | 156.00 | 150 | Vertical | N/A |
| 3** | 2439.250 | 91.89 | -11.33 | 54.0 | -37.89 | AV | 156.00 | 150 | Vertical | N/A |
| 4 | 2908.000 | 47.26 | -8.17 | 74.0 | 26.74 | Peak | 161.00 | 150 | Vertical | Pass |
| 4** | 2908.000 | 36.39 | -8.17 | 54.0 | 17.61 | AV | 161.00 | 150 | Vertical | Pass |
| 5 | 7682.500 | 56.32 | 3.35 | 74.0 | 17.68 | Peak | 39.00 | 150 | Vertical | Pass |
| 5** | 7682.500 | 45.40 | 3.35 | 54.0 | 8.60 | AV | 39.00 | 150 | Vertical | Pass |
| 6 | 16267.000 | 53.35 | 1.92 | 74.0 | 20.65 | Peak | 11.00 | 150 | Vertical | Pass |
| 6** | 16267.000 | 42.62 | 1.92 | 54.0 | 11.38 | AV | 11.00 | 150 | Vertical | Pass |

## 1 GHz to 18 GHz, ANT H 802.11ax40(SU) Middle Channel




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1101.250 | 39.98 | -14.79 | 74.0 | 34.02 | Peak | 164.00 | 150 | Horizontal | Pass |
| 1** | 1101.250 | 28.82 | -14.79 | 54.0 | 25.18 | AV | 164.00 | 150 | Horizontal | Pass |
| 2 | 2344.750 | 53.91 | -10.90 | 74.0 | 20.09 | Peak | 187.00 | 150 | Horizontal | Pass |
| 2** | 2344.750 | 43.14 | -10.90 | 54.0 | 10.86 | AV | 187.00 | 150 | Horizontal | Pass |
| 3 | 2447.250 | 103.76 | -11.47 | 74.0 | -29.76 | Peak | 234.00 | 150 | Horizontal | N/A |
| 3** | 2447.250 | 92.75 | -11.47 | 54.0 | -38.75 | AV | 234.00 | 150 | Horizontal | N/A |
| 4 | 2979.500 | 47.70 | -7.77 | 74.0 | 26.30 | Peak | 119.00 | 150 | Horizontal | Pass |
| 4** | 2979.500 | 36.23 | -7.77 | 54.0 | 17.77 | AV | 119.00 | 150 | Horizontal | Pass |
| 5 | 7633.000 | 56.38 | 3.00 | 74.0 | 17.62 | Peak | 89.00 | 150 | Horizontal | Pass |
| 5** | 7633.000 | 45.27 | 3.00 | 54.0 | 8.73 | AV | 89.00 | 150 | Horizontal | Pass |
| 6 | 17250.001 | 54.12 | 2.57 | 74.0 | 19.88 | Peak | 246.00 | 150 | Horizontal | Pass |
| 6** | 17250.001 | 42.97 | 2.57 | 54.0 | 11.03 | AV | 246.00 | 150 | Horizontal | Pass |

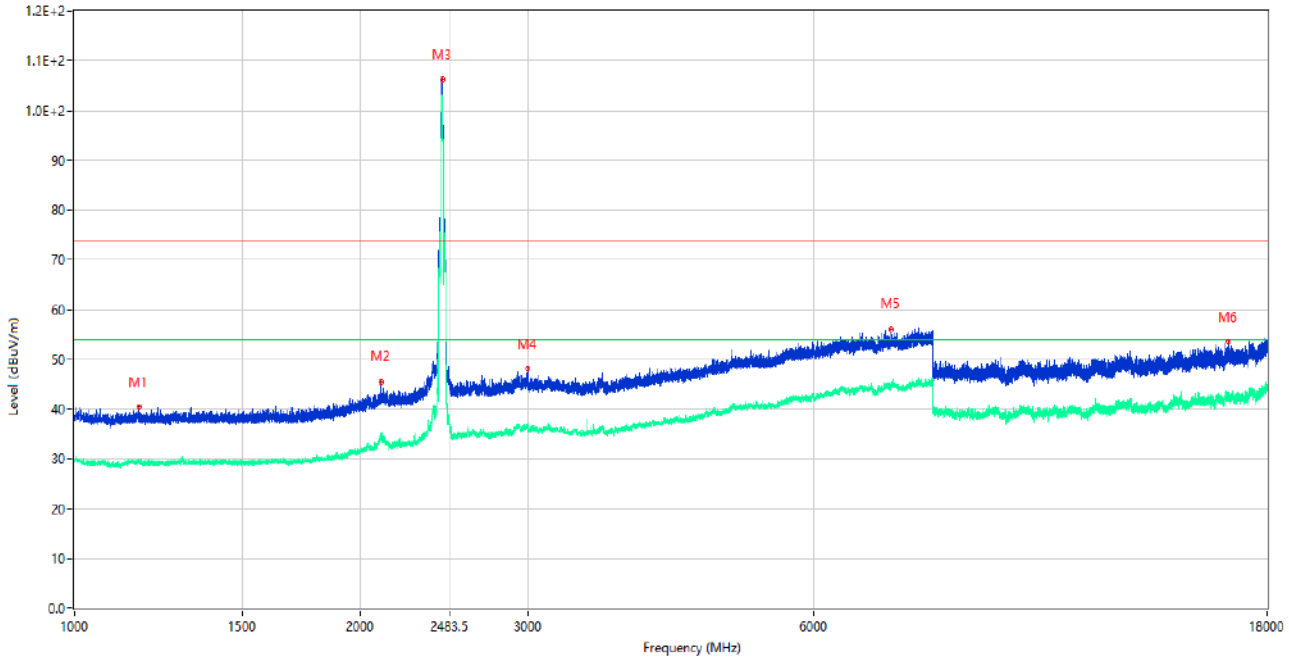
## 1 GHz to 18 GHz, ANT V 802.11ax40(SU) Middle Channel




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1148.250 | 41.01 | -14.77 | 74.0 | 32.99 | Peak | 169.00 | 150 | Vertical | Pass |
| 1** | 1148.250 | 29.68 | -14.77 | 54.0 | 24.32 | AV | 169.00 | 150 | Vertical | Pass |
| 2 | 2365.500 | 52.36 | -11.53 | 74.0 | 21.64 | Peak | 331.00 | 150 | Vertical | Pass |
| 2** | 2365.500 | 40.95 | -11.53 | 54.0 | 13.05 | AV | 331.00 | 150 | Vertical | Pass |
| 3 | 2434.750 | 97.11 | -11.24 | 74.0 | -23.11 | Peak | 164.00 | 150 | Vertical | N/A |
| 3** | 2434.750 | 87.93 | -11.24 | 54.0 | -33.93 | AV | 164.00 | 150 | Vertical | N/A |
| 4 | 2901.750 | 48.19 | -8.47 | 74.0 | 25.81 | Peak | 360.00 | 150 | Vertical | Pass |
| 4** | 2901.750 | 35.76 | -8.47 | 54.0 | 18.24 | AV | 360.00 | 150 | Vertical | Pass |
| 5 | 7811.500 | 56.92 | 3.42 | 74.0 | 17.08 | Peak | 356.00 | 150 | Vertical | Pass |
| 5** | 7811.500 | 45.00 | 3.42 | 54.0 | 9.00 | AV | 356.00 | 150 | Vertical | Pass |
| 6 | 14587.500 | 52.15 | 1.04 | 74.0 | 21.85 | Peak | 292.00 | 150 | Vertical | Pass |
| 6** | 14587.500 | 42.79 | 1.04 | 54.0 | 11.21 | AV | 292.00 | 150 | Vertical | Pass |

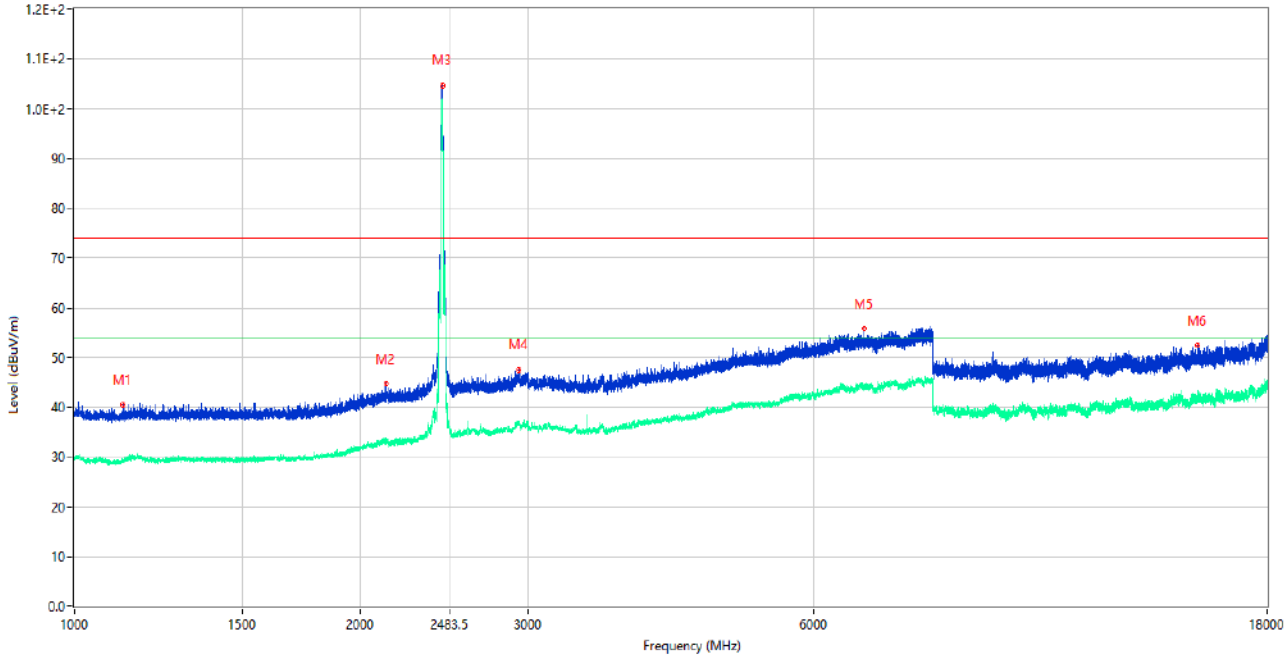
Aux. Antenna:

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



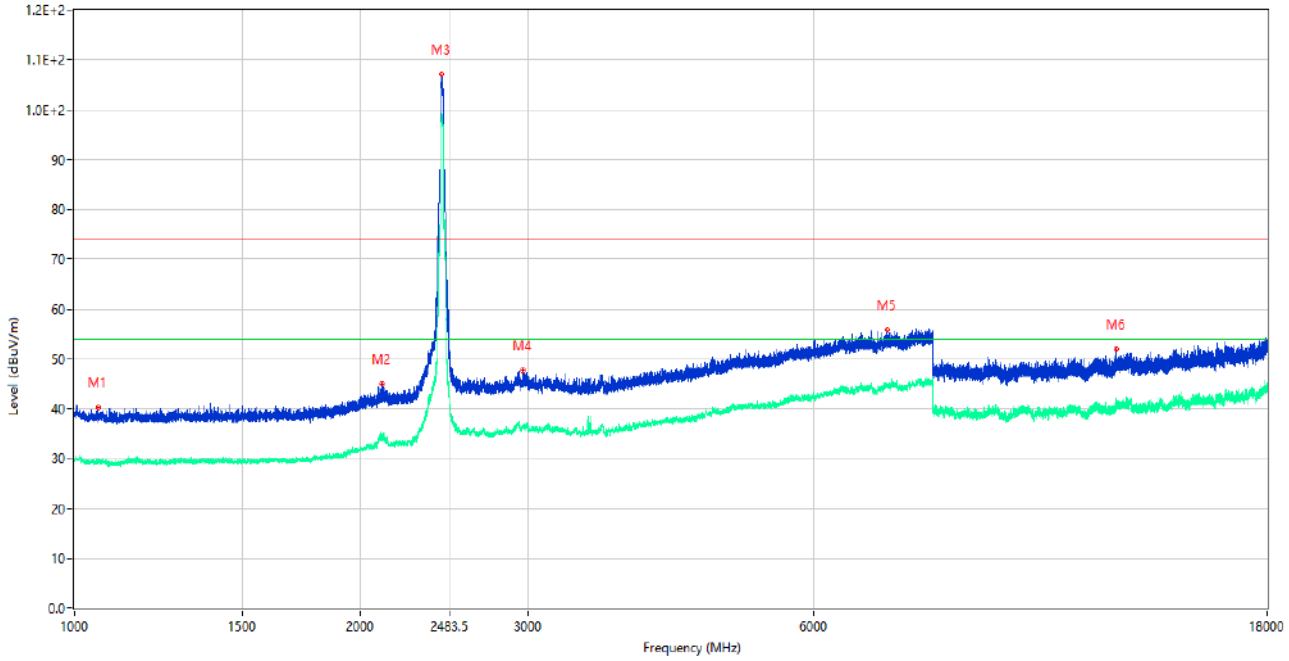

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1170.250 | 40.43 | -14.55 | 74.0 | 33.57 | Peak | 118.00 | 150 | Horizontal | Pass |
| 1** | 1170.250 | 29.40 | -14.55 | 54.0 | 24.60 | AV | 118.00 | 150 | Horizontal | Pass |
| 2 | 2101.500 | 45.36 | -12.35 | 74.0 | 28.64 | Peak | 145.00 | 150 | Horizontal | Pass |
| 2** | 2101.500 | 33.86 | -12.35 | 54.0 | 20.14 | AV | 145.00 | 150 | Horizontal | Pass |
| 3 | 2438.500 | 106.14 | -11.32 | 74.0 | -32.14 | Peak | 219.00 | 150 | Horizontal | N/A |
| 3** | 2438.500 | 103.05 | -11.32 | 54.0 | -49.05 | AV | 219.00 | 150 | Horizontal | N/A |
| 4 | 2999.500 | 48.04 | -7.46 | 74.0 | 25.96 | Peak | 25.00 | 150 | Horizontal | Pass |
| 4** | 2999.500 | 36.71 | -7.46 | 54.0 | 17.29 | AV | 25.00 | 150 | Horizontal | Pass |
| 5 | 7238.500 | 56.02 | 3.09 | 74.0 | 17.98 | Peak | 60.00 | 150 | Horizontal | Pass |
| 5** | 7238.500 | 45.21 | 3.09 | 54.0 | 8.79 | AV | 60.00 | 150 | Horizontal | Pass |
| 6 | 16394.000 | 53.45 | 1.95 | 74.0 | 20.55 | Peak | 104.00 | 150 | Horizontal | Pass |
| 6** | 16394.000 | 42.98 | 1.95 | 54.0 | 11.02 | AV | 104.00 | 150 | Horizontal | Pass |

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



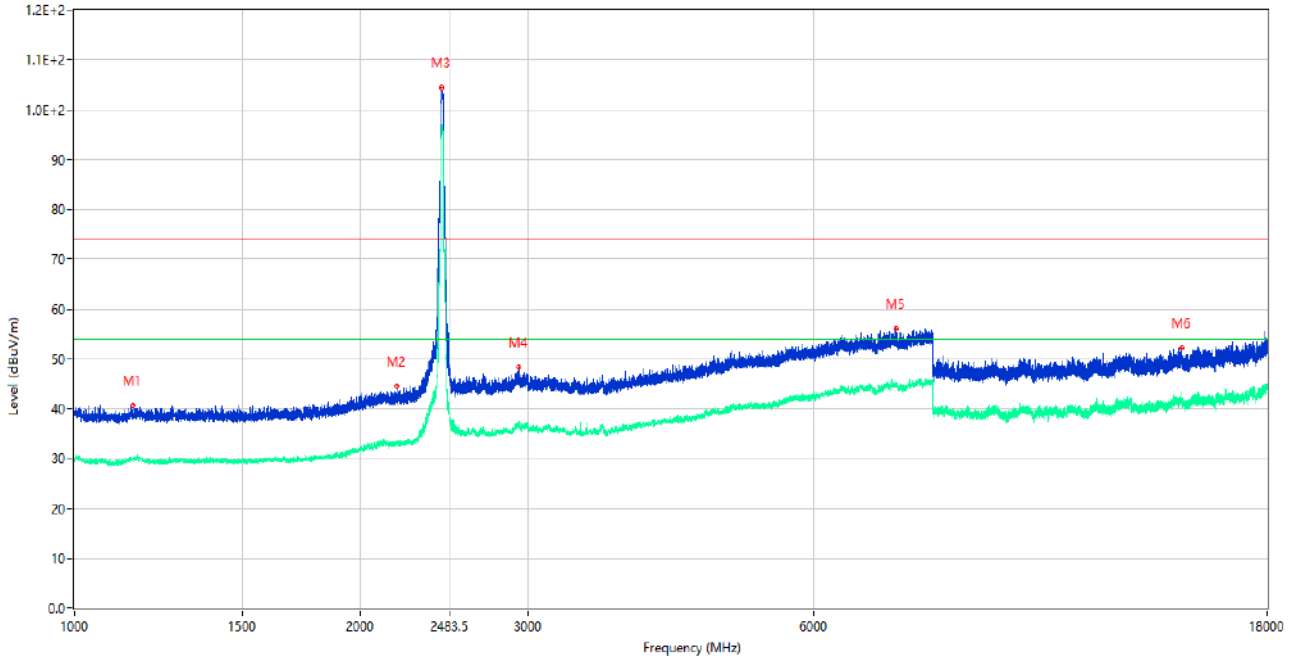

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1124.250 | 40.55 | -14.76 | 74.0 | 33.45 | Peak | 178.00 | 150 | Vertical | Pass |
| 1** | 1124.250 | 29.01 | -14.76 | 54.0 | 24.99 | AV | 178.00 | 150 | Vertical | Pass |
| 2 | 2129.750 | 44.69 | -11.98 | 74.0 | 29.31 | Peak | 204.00 | 150 | Vertical | Pass |
| 2** | 2129.750 | 33.21 | -11.98 | 54.0 | 20.79 | AV | 204.00 | 150 | Vertical | Pass |
| 3 | 2438.250 | 104.75 | -11.32 | 74.0 | -30.75 | Peak | 270.00 | 150 | Vertical | N/A |
| 3** | 2438.250 | 101.90 | -11.32 | 54.0 | -47.90 | AV | 270.00 | 150 | Vertical | N/A |
| 4 | 2937.500 | 47.54 | -7.08 | 74.0 | 26.46 | Peak | 199.00 | 150 | Vertical | Pass |
| 4** | 2937.500 | 36.28 | -7.08 | 54.0 | 17.72 | AV | 199.00 | 150 | Vertical | Pass |
| 5 | 6783.500 | 55.80 | 2.25 | 74.0 | 18.20 | Peak | 21.00 | 150 | Vertical | Pass |
| 5** | 6783.500 | 44.15 | 2.25 | 54.0 | 9.85 | AV | 21.00 | 150 | Vertical | Pass |
| 6 | 15227.000 | 52.36 | 1.45 | 74.0 | 21.64 | Peak | 360.00 | 150 | Vertical | Pass |
| 6** | 15227.000 | 41.50 | 1.45 | 54.0 | 12.50 | AV | 360.00 | 150 | Vertical | Pass |

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



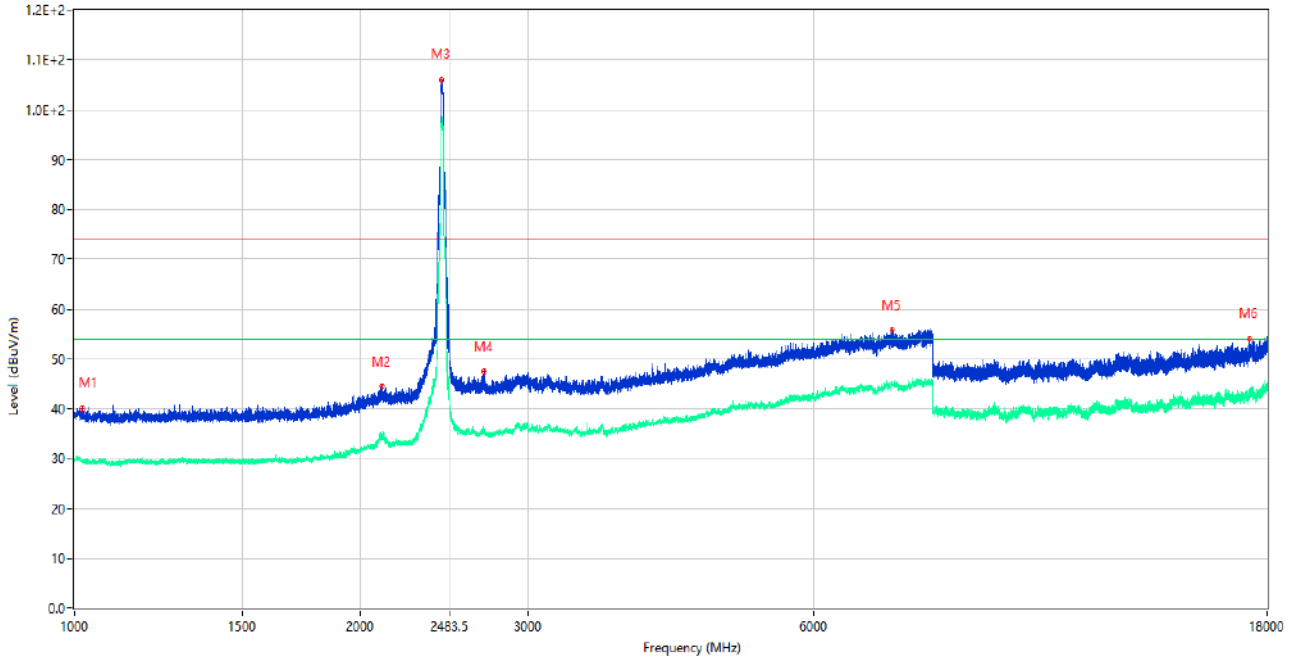

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1059.500 | 40.22 | -14.41 | 74.0 | 33.78 | Peak | 43.00 | 150 | Horizontal | Pass |
| 1** | 1059.500 | 29.22 | -14.41 | 54.0 | 24.78 | AV | 43.00 | 150 | Horizontal | Pass |
| 2 | 2106.250 | 45.03 | -12.41 | 74.0 | 28.97 | Peak | 150.00 | 150 | Horizontal | Pass |
| 2** | 2106.250 | 34.05 | -12.41 | 54.0 | 19.95 | AV | 150.00 | 150 | Horizontal | Pass |
| 3 | 2432.000 | 107.03 | -11.17 | 74.0 | -33.03 | Peak | 228.00 | 150 | Horizontal | N/A |
| 3** | 2432.000 | 97.59 | -11.17 | 54.0 | -43.59 | AV | 228.00 | 150 | Horizontal | N/A |
| 4 | 2962.000 | 47.64 | -7.57 | 74.0 | 26.36 | Peak | 298.00 | 150 | Horizontal | Pass |
| 4** | 2962.000 | 36.68 | -7.57 | 54.0 | 17.32 | AV | 298.00 | 150 | Horizontal | Pass |
| 5 | 7167.000 | 55.80 | 2.28 | 74.0 | 18.20 | Peak | 21.00 | 150 | Horizontal | Pass |
| 5** | 7167.000 | 44.78 | 2.28 | 54.0 | 9.22 | AV | 21.00 | 150 | Horizontal | Pass |
| 6 | 12494.000 | 51.98 | 0.13 | 74.0 | 22.02 | Peak | 230.00 | 150 | Horizontal | Pass |
| 6** | 12494.000 | 41.21 | 0.13 | 54.0 | 12.79 | AV | 230.00 | 150 | Horizontal | Pass |

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



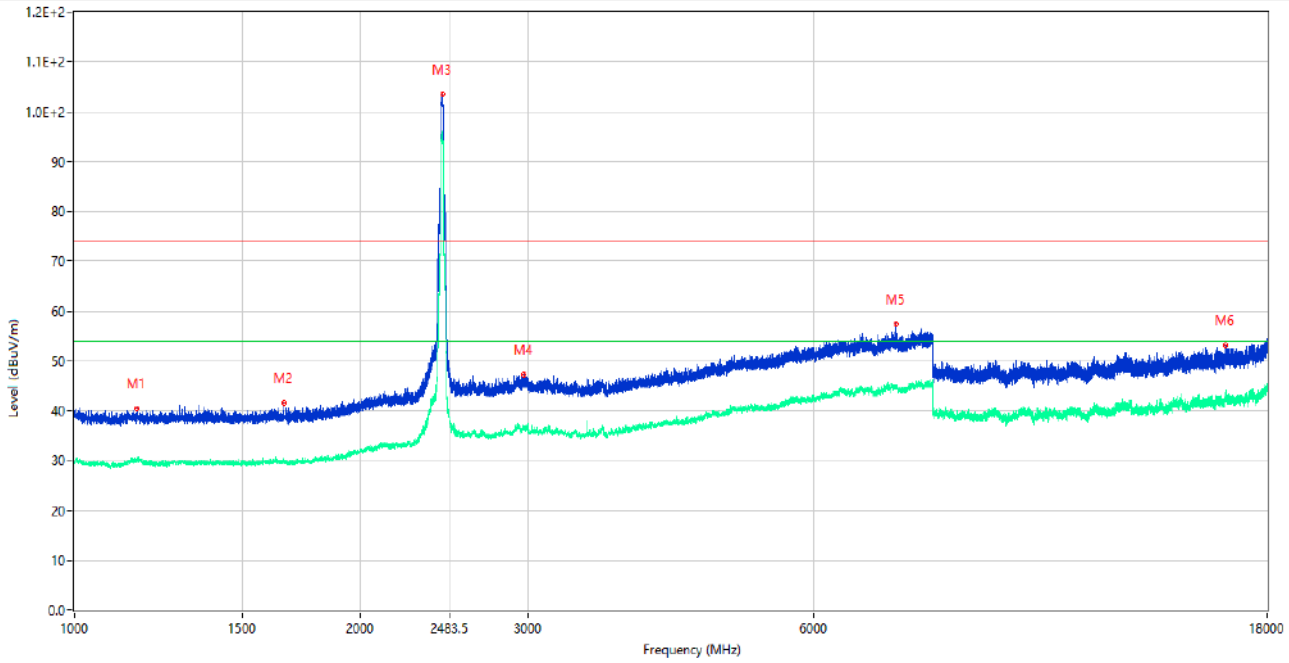

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1151.250 | 40.73 | -14.73 | 74.0 | 33.27 | Peak | 196.00 | 150 | Vertical | Pass |
| 1** | 1151.250 | 29.79 | -14.73 | 54.0 | 24.21 | AV | 196.00 | 150 | Vertical | Pass |
| 2 | 2183.500 | 44.58 | -11.81 | 74.0 | 29.42 | Peak | 5.00 | 150 | Vertical | Pass |
| 2** | 2183.500 | 33.12 | -11.81 | 54.0 | 20.88 | AV | 5.00 | 150 | Vertical | Pass |
| 3 | 2432.250 | 104.46 | -11.18 | 74.0 | -30.46 | Peak | 239.00 | 150 | Vertical | N/A |
| 3** | 2432.250 | 94.67 | -11.18 | 54.0 | -40.67 | AV | 239.00 | 150 | Vertical | N/A |
| 4 | 2934.500 | 48.25 | -6.88 | 74.0 | 25.75 | Peak | 182.00 | 150 | Vertical | Pass |
| 4** | 2934.500 | 36.71 | -6.88 | 54.0 | 17.29 | AV | 182.00 | 150 | Vertical | Pass |
| 5 | 7324.500 | 56.12 | 2.68 | 74.0 | 17.88 | Peak | 360.00 | 150 | Vertical | Pass |
| 5** | 7324.500 | 44.51 | 2.68 | 54.0 | 9.49 | AV | 360.00 | 150 | Vertical | Pass |
| 6 | 14620.000 | 52.12 | 0.79 | 74.0 | 21.88 | Peak | 70.00 | 150 | Vertical | Pass |
| 6** | 14620.000 | 41.47 | 0.79 | 54.0 | 12.53 | AV | 70.00 | 150 | Vertical | Pass |

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



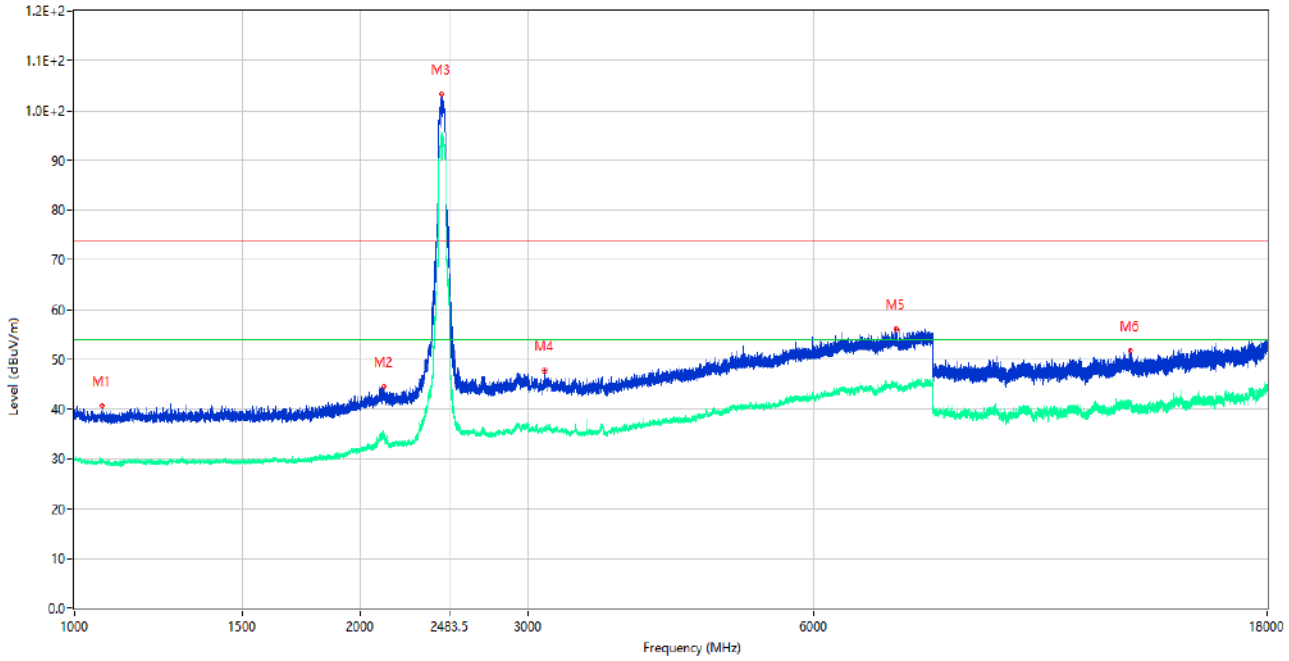

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1020.000 | 40.10 | -14.19 | 74.0 | 33.90 | Peak | 41.00 | 150 | Horizontal | Pass |
| 1** | 1020.000 | 29.25 | -14.19 | 54.0 | 24.75 | AV | 41.00 | 150 | Horizontal | Pass |
| 2 | 2106.000 | 44.45 | -12.41 | 74.0 | 29.55 | Peak | 144.00 | 150 | Horizontal | Pass |
| 2** | 2106.000 | 34.55 | -12.41 | 54.0 | 19.45 | AV | 144.00 | 150 | Horizontal | Pass |
| 3 | 2435.750 | 106.10 | -11.28 | 74.0 | -32.10 | Peak | 225.00 | 150 | Horizontal | N/A |
| 3** | 2435.750 | 98.76 | -11.28 | 54.0 | -44.76 | AV | 225.00 | 150 | Horizontal | N/A |
| 4 | 2698.500 | 47.37 | -9.58 | 74.0 | 26.63 | Peak | 251.00 | 150 | Horizontal | Pass |
| 4** | 2698.500 | 35.47 | -9.58 | 54.0 | 18.53 | AV | 251.00 | 150 | Horizontal | Pass |
| 5 | 7250.000 | 55.81 | 3.13 | 74.0 | 18.19 | Peak | 241.00 | 150 | Horizontal | Pass |
| 5** | 7250.000 | 45.14 | 3.13 | 54.0 | 8.86 | AV | 241.00 | 150 | Horizontal | Pass |
| 6 | 17258.000 | 54.07 | 2.55 | 74.0 | 19.93 | Peak | 354.00 | 150 | Horizontal | Pass |
| 6** | 17258.000 | 42.86 | 2.55 | 54.0 | 11.14 | AV | 354.00 | 150 | Horizontal | Pass |

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



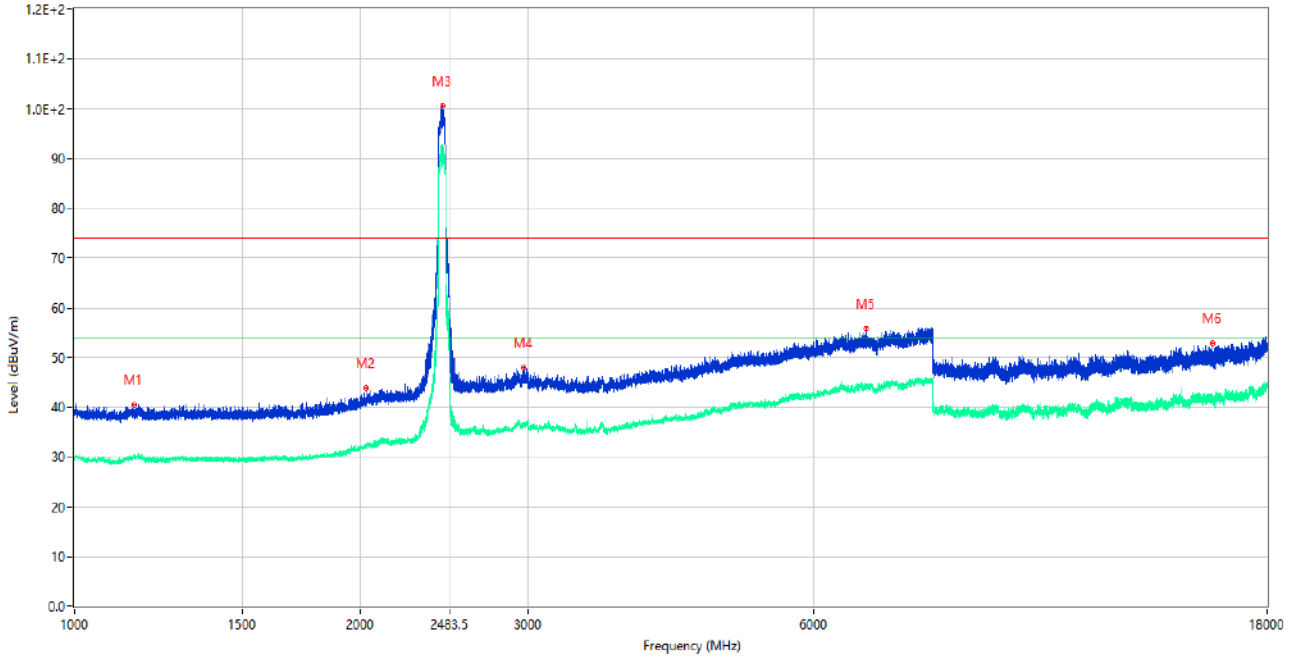

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1163.500 | 40.46 | -14.54 | 74.0 | 33.54 | Peak | 218.00 | 150 | Vertical | Pass |
| 1** | 1163.500 | 30.13 | -14.54 | 54.0 | 23.87 | AV | 218.00 | 150 | Vertical | Pass |
| 2 | 1661.500 | 41.49 | -15.10 | 74.0 | 32.51 | Peak | 114.00 | 150 | Vertical | Pass |
| 2** | 1661.500 | 29.65 | -15.10 | 54.0 | 24.35 | AV | 114.00 | 150 | Vertical | Pass |
| 3 | 2438.500 | 103.42 | -11.32 | 74.0 | -29.42 | Peak | 267.00 | 150 | Vertical | N/A |
| 3** | 2438.500 | 95.98 | -11.32 | 54.0 | -41.98 | AV | 267.00 | 150 | Vertical | N/A |
| 4 | 2970.250 | 47.19 | -7.12 | 74.0 | 26.81 | Peak | 276.00 | 150 | Vertical | Pass |
| 4** | 2970.250 | 36.58 | -7.12 | 54.0 | 17.42 | AV | 276.00 | 150 | Vertical | Pass |
| 5 | 7328.500 | 57.45 | 2.72 | 74.0 | 16.55 | Peak | 50.00 | 150 | Vertical | Pass |
| 5** | 7328.500 | 44.68 | 2.72 | 54.0 | 9.32 | AV | 50.00 | 150 | Vertical | Pass |
| 6 | 16290.000 | 53.08 | 2.29 | 74.0 | 20.92 | Peak | 349.00 | 150 | Vertical | Pass |
| 6** | 16290.000 | 42.79 | 2.29 | 54.0 | 11.21 | AV | 349.00 | 150 | Vertical | Pass |

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



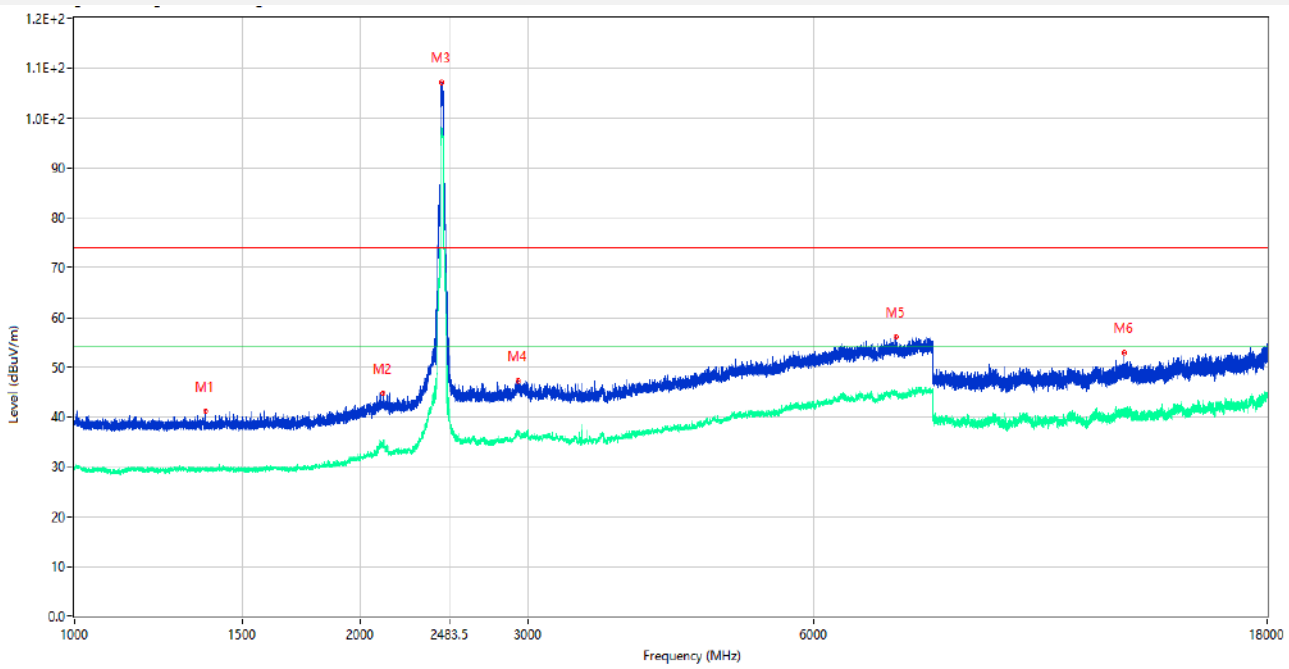

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1070.000 | 40.69 | -14.30 | 74.0 | 33.31 | Peak | 333.00 | 150 | Horizontal | Pass |
| 1** | 1070.000 | 29.15 | -14.30 | 54.0 | 24.85 | AV | 333.00 | 150 | Horizontal | Pass |
| 2 | 2117.500 | 44.63 | -12.28 | 74.0 | 29.37 | Peak | 148.00 | 150 | Horizontal | Pass |
| 2** | 2117.500 | 33.82 | -12.28 | 54.0 | 20.18 | AV | 148.00 | 150 | Horizontal | Pass |
| 3 | 2433.750 | 103.23 | -11.23 | 74.0 | -29.23 | Peak | 222.00 | 150 | Horizontal | N/A |
| 3** | 2433.750 | 95.13 | -11.23 | 54.0 | -41.13 | AV | 222.00 | 150 | Horizontal | N/A |
| 4 | 3129.000 | 47.60 | -5.93 | 74.0 | 26.40 | Peak | 342.00 | 150 | Horizontal | Pass |
| 4** | 3129.000 | 36.28 | -5.93 | 54.0 | 17.72 | AV | 342.00 | 150 | Horizontal | Pass |
| 5 | 7328.500 | 56.12 | 2.72 | 74.0 | 17.88 | Peak | 359.00 | 150 | Horizontal | Pass |
| 5** | 7328.500 | 44.47 | 2.72 | 54.0 | 9.53 | AV | 359.00 | 150 | Horizontal | Pass |
| 6 | 12910.500 | 51.67 | 0.51 | 74.0 | 22.33 | Peak | 5.00 | 150 | Horizontal | Pass |
| 6** | 12910.500 | 40.98 | 0.51 | 54.0 | 13.02 | AV | 5.00 | 150 | Horizontal | Pass |

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



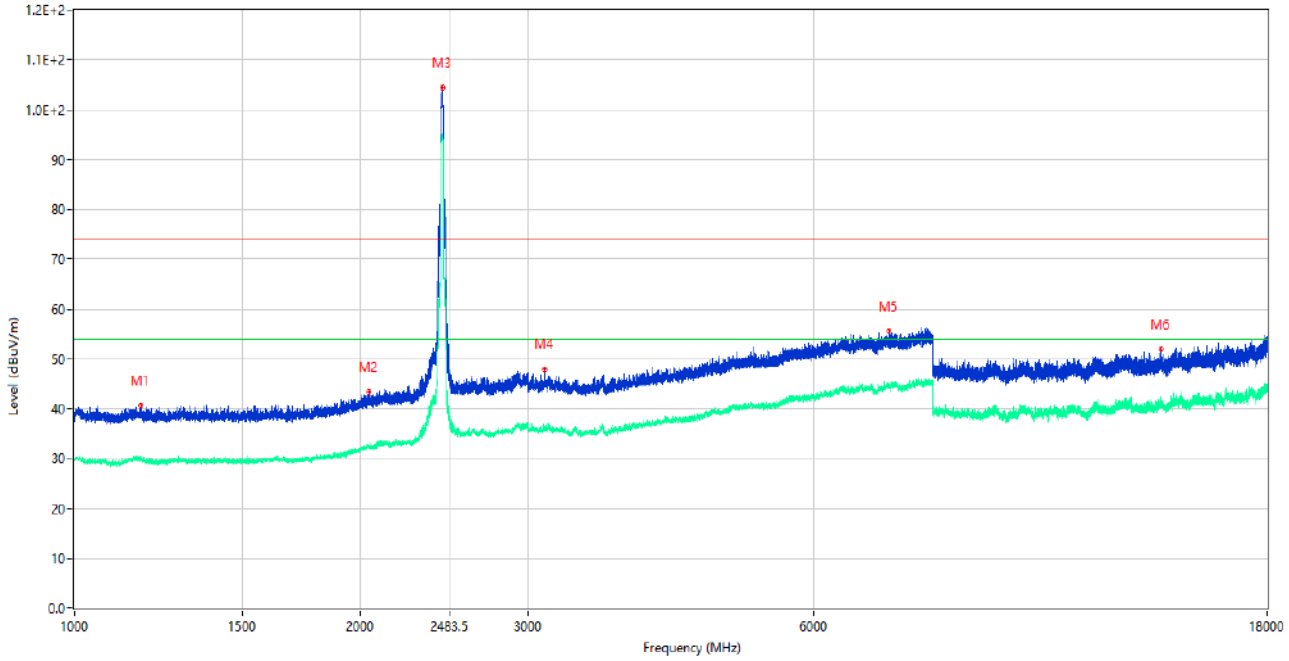

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1154.500 | 40.47 | -14.67 | 74.0 | 33.53 | Peak | 196.00 | 150 | Vertical | Pass |
| 1** | 1154.500 | 30.05 | -14.67 | 54.0 | 23.95 | AV | 196.00 | 150 | Vertical | Pass |
| 2 | 2027.250 | 43.89 | -12.63 | 74.0 | 30.11 | Peak | 248.00 | 150 | Vertical | Pass |
| 2** | 2027.250 | 32.28 | -12.63 | 54.0 | 21.72 | AV | 248.00 | 150 | Vertical | Pass |
| 3 | 2440.500 | 100.53 | -11.38 | 74.0 | -26.53 | Peak | 275.00 | 150 | Vertical | N/A |
| 3** | 2440.500 | 92.08 | -11.38 | 54.0 | -38.08 | AV | 275.00 | 150 | Vertical | N/A |
| 4 | 2974.500 | 47.80 | -7.46 | 74.0 | 26.20 | Peak | 142.00 | 150 | Vertical | Pass |
| 4** | 2974.500 | 36.54 | -7.46 | 54.0 | 17.46 | AV | 142.00 | 150 | Vertical | Pass |
| 5 | 6814.000 | 55.86 | 1.99 | 74.0 | 18.14 | Peak | 54.00 | 150 | Vertical | Pass |
| 5** | 6814.000 | 44.60 | 1.99 | 54.0 | 9.40 | AV | 54.00 | 150 | Vertical | Pass |
| 6 | 15783.000 | 52.96 | 1.02 | 74.0 | 21.04 | Peak | 39.00 | 150 | Vertical | Pass |
| 6** | 15783.000 | 41.27 | 1.02 | 54.0 | 12.73 | AV | 39.00 | 150 | Vertical | Pass |

## 1 GHz to 18 GHz, ANT H 802.11ax20(SU) Middle Channel



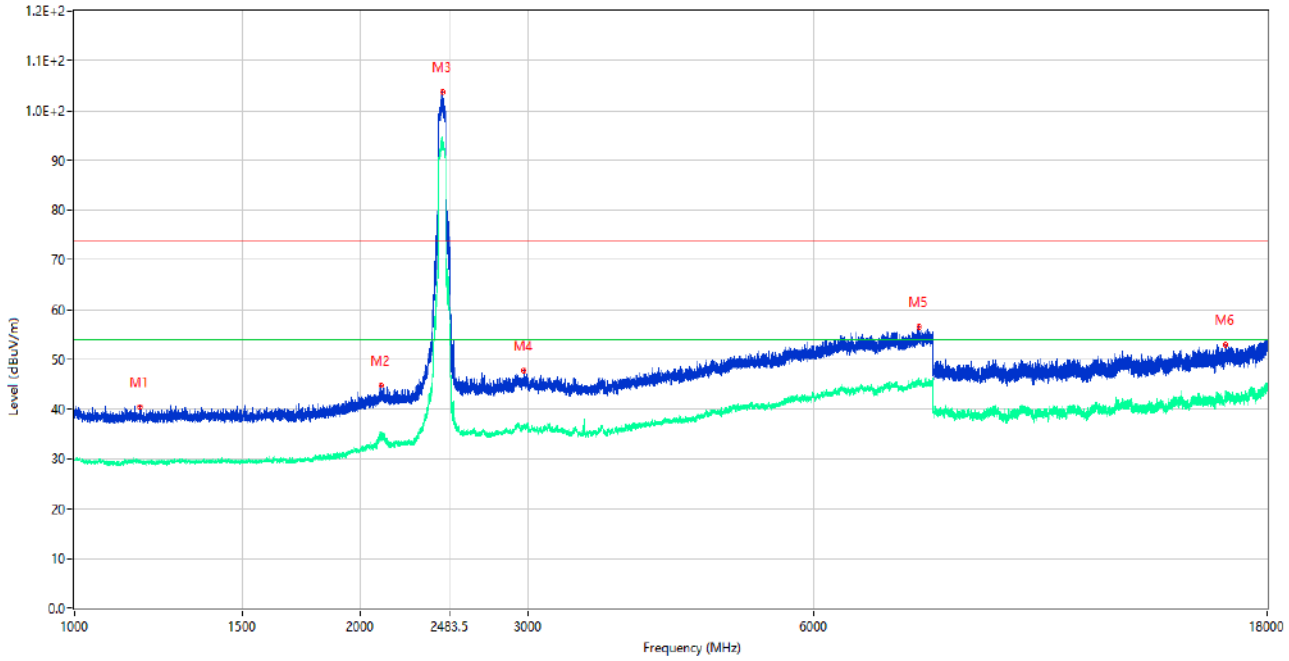

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1374.750 | 41.10 | -15.11 | 74.0 | 32.90 | Peak | 0.00 | 150 | Horizontal | Pass |
| 1** | 1374.750 | 29.25 | -15.11 | 54.0 | 24.75 | AV | 0.00 | 150 | Horizontal | Pass |
| 2 | 2113.250 | 44.71 | -12.40 | 74.0 | 29.29 | Peak | 150.00 | 150 | Horizontal | Pass |
| 2** | 2113.250 | 35.04 | -12.40 | 54.0 | 18.96 | AV | 150.00 | 150 | Horizontal | Pass |
| 3 | 2436.000 | 107.18 | -11.29 | 74.0 | -33.18 | Peak | 0.00 | 150 | Horizontal | N/A |
| 3** | 2436.000 | 97.92 | -11.29 | 54.0 | -43.92 | AV | 0.00 | 150 | Horizontal | N/A |
| 4 | 2927.750 | 47.30 | -6.81 | 74.0 | 26.70 | Peak | 0.00 | 150 | Horizontal | Pass |
| 4** | 2927.750 | 37.13 | -6.81 | 54.0 | 16.87 | AV | 0.00 | 150 | Horizontal | Pass |
| 5 | 7329.500 | 55.94 | 2.72 | 74.0 | 18.06 | Peak | 199.00 | 150 | Horizontal | Pass |
| 5** | 7329.500 | 45.03 | 2.72 | 54.0 | 8.97 | AV | 199.00 | 150 | Horizontal | Pass |
| 6 | 12735.000 | 52.84 | -0.46 | 74.0 | 21.16 | Peak | 0.00 | 150 | Horizontal | Pass |
| 6** | 12735.000 | 40.39 | -0.46 | 54.0 | 13.61 | AV | 0.00 | 150 | Horizontal | Pass |

## 1 GHz to 18 GHz, ANT V 802.11ax20(SU) Middle Channel



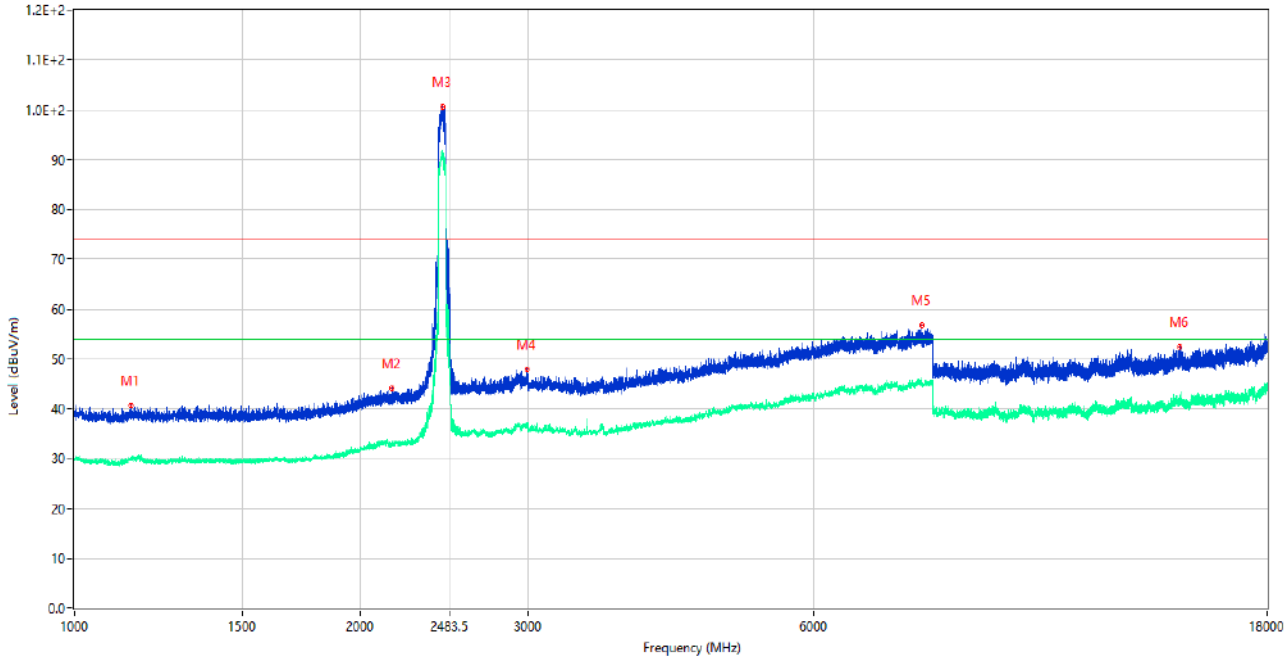

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1174.500 | 40.75 | -14.67 | 74.0 | 33.25 | Peak | 117.00 | 150 | Vertical | Pass |
| 1** | 1174.500 | 30.08 | -14.67 | 54.0 | 23.92 | AV | 117.00 | 150 | Vertical | Pass |
| 2 | 2043.500 | 43.44 | -12.18 | 74.0 | 30.56 | Peak | 18.00 | 150 | Vertical | Pass |
| 2** | 2043.500 | 32.17 | -12.18 | 54.0 | 21.83 | AV | 18.00 | 150 | Vertical | Pass |
| 3 | 2437.750 | 104.30 | -11.32 | 74.0 | -30.30 | Peak | 261.00 | 150 | Vertical | N/A |
| 3** | 2437.750 | 94.13 | -11.32 | 54.0 | -40.13 | AV | 261.00 | 150 | Vertical | N/A |
| 4 | 3128.000 | 47.93 | -5.94 | 74.0 | 26.07 | Peak | 150.00 | 150 | Vertical | Pass |
| 4** | 3128.000 | 35.73 | -5.94 | 54.0 | 18.27 | AV | 150.00 | 150 | Vertical | Pass |
| 5 | 7209.000 | 55.50 | 2.89 | 74.0 | 18.50 | Peak | 0.00 | 150 | Vertical | Pass |
| 5** | 7209.000 | 44.84 | 2.89 | 54.0 | 9.16 | AV | 0.00 | 150 | Vertical | Pass |
| 6 | 13910.500 | 52.02 | 0.20 | 74.0 | 21.98 | Peak | 321.00 | 150 | Vertical | Pass |
| 6** | 13910.500 | 40.50 | 0.20 | 54.0 | 13.50 | AV | 321.00 | 150 | Vertical | Pass |

## 1 GHz to 18 GHz, ANT H 802.11ax40(SU) Middle Channel




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1173.250 | 40.45 | -14.61 | 74.0 | 33.55 | Peak | 53.00 | 150 | Horizontal | Pass |
| 1** | 1173.250 | 29.68 | -14.61 | 54.0 | 24.32 | AV | 53.00 | 150 | Horizontal | Pass |
| 2 | 2103.750 | 44.81 | -12.38 | 74.0 | 29.19 | Peak | 149.00 | 150 | Horizontal | Pass |
| 2** | 2103.750 | 35.25 | -12.38 | 54.0 | 18.75 | AV | 149.00 | 150 | Horizontal | Pass |
| 3 | 2439.500 | 103.71 | -11.34 | 74.0 | -29.71 | Peak | 212.00 | 150 | Horizontal | N/A |
| 3** | 2439.500 | 94.21 | -11.34 | 54.0 | -40.21 | AV | 212.00 | 150 | Horizontal | N/A |
| 4 | 2969.750 | 47.61 | -7.11 | 74.0 | 26.39 | Peak | 231.00 | 150 | Horizontal | Pass |
| 4** | 2969.750 | 36.43 | -7.11 | 54.0 | 17.57 | AV | 231.00 | 150 | Horizontal | Pass |
| 5 | 7733.500 | 56.46 | 3.21 | 74.0 | 17.54 | Peak | 349.00 | 150 | Horizontal | Pass |
| 5** | 7733.500 | 45.32 | 3.21 | 54.0 | 8.68 | AV | 349.00 | 150 | Horizontal | Pass |
| 6 | 16280.500 | 52.90 | 2.06 | 74.0 | 21.10 | Peak | 360.00 | 150 | Horizontal | Pass |
| 6** | 16280.500 | 42.53 | 2.06 | 54.0 | 11.47 | AV | 360.00 | 150 | Horizontal | Pass |

## 1 GHz to 18 GHz, ANT V 802.11ax40(SU) Middle Channel




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1147.000 | 40.67 | -14.75 | 74.0 | 33.33 | Peak | 62.00 | 150 | Vertical | Pass |
| 1** | 1147.000 | 29.64 | -14.75 | 54.0 | 24.36 | AV | 62.00 | 150 | Vertical | Pass |
| 2 | 2156.750 | 44.10 | -12.25 | 74.0 | 29.90 | Peak | 0.00 | 150 | Vertical | Pass |
| 2** | 2156.750 | 32.65 | -12.25 | 54.0 | 21.35 | AV | 0.00 | 150 | Vertical | Pass |
| 3 | 2440.000 | 100.47 | -11.36 | 74.0 | -26.47 | Peak | 242.00 | 150 | Vertical | N/A |
| 3** | 2440.000 | 91.50 | -11.36 | 54.0 | -37.50 | AV | 242.00 | 150 | Vertical | N/A |
| 4 | 2993.750 | 47.80 | -7.66 | 74.0 | 26.20 | Peak | 279.00 | 150 | Vertical | Pass |
| 4** | 2993.750 | 36.46 | -7.66 | 54.0 | 17.54 | AV | 279.00 | 150 | Vertical | Pass |
| 5 | 7795.500 | 56.66 | 3.92 | 74.0 | 17.34 | Peak | 25.00 | 150 | Vertical | Pass |
| 5** | 7795.500 | 45.66 | 3.92 | 54.0 | 8.34 | AV | 25.00 | 150 | Vertical | Pass |
| 6 | 14575.500 | 52.45 | 0.25 | 74.0 | 21.55 | Peak | 157.00 | 150 | Vertical | Pass |
| 6** | 14575.500 | 41.50 | 0.25 | 54.0 | 12.50 | AV | 157.00 | 150 | Vertical | Pass |

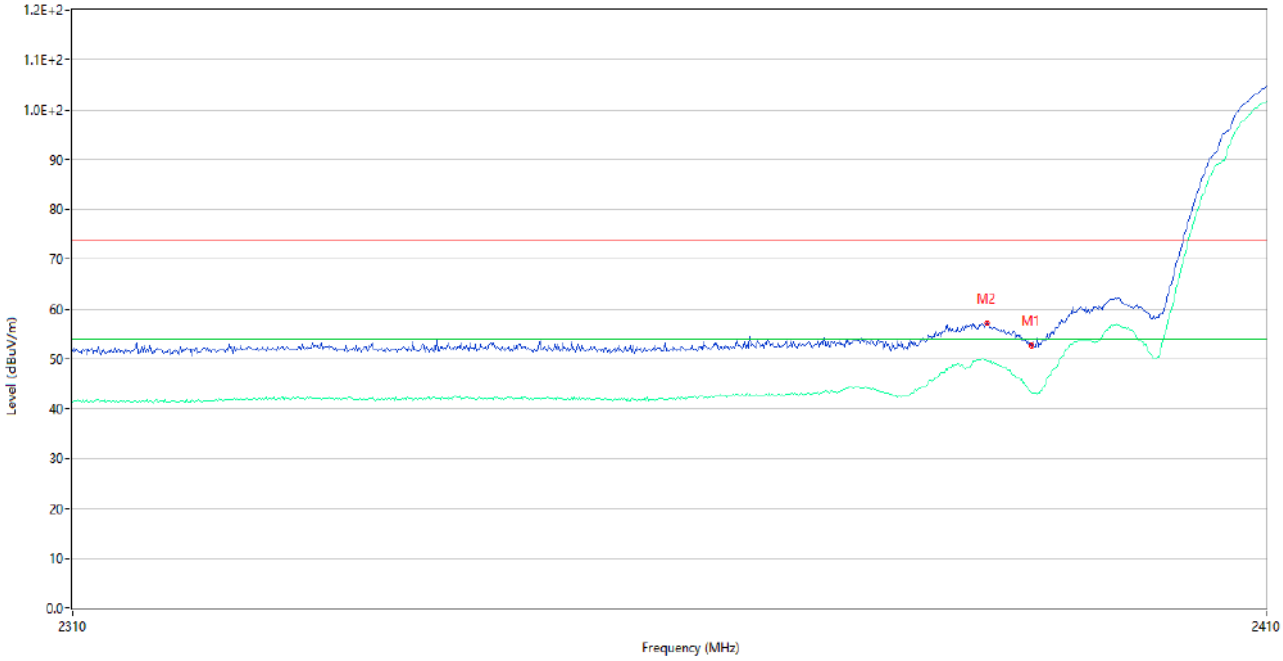
## A.7 Band Edge (Restricted-band band-edge)

Note 1: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.
Note 2: 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 3: 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 4: All the configurations were pre tested, only the worst configuration has been reported in this report.
Note 5: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data and Plots

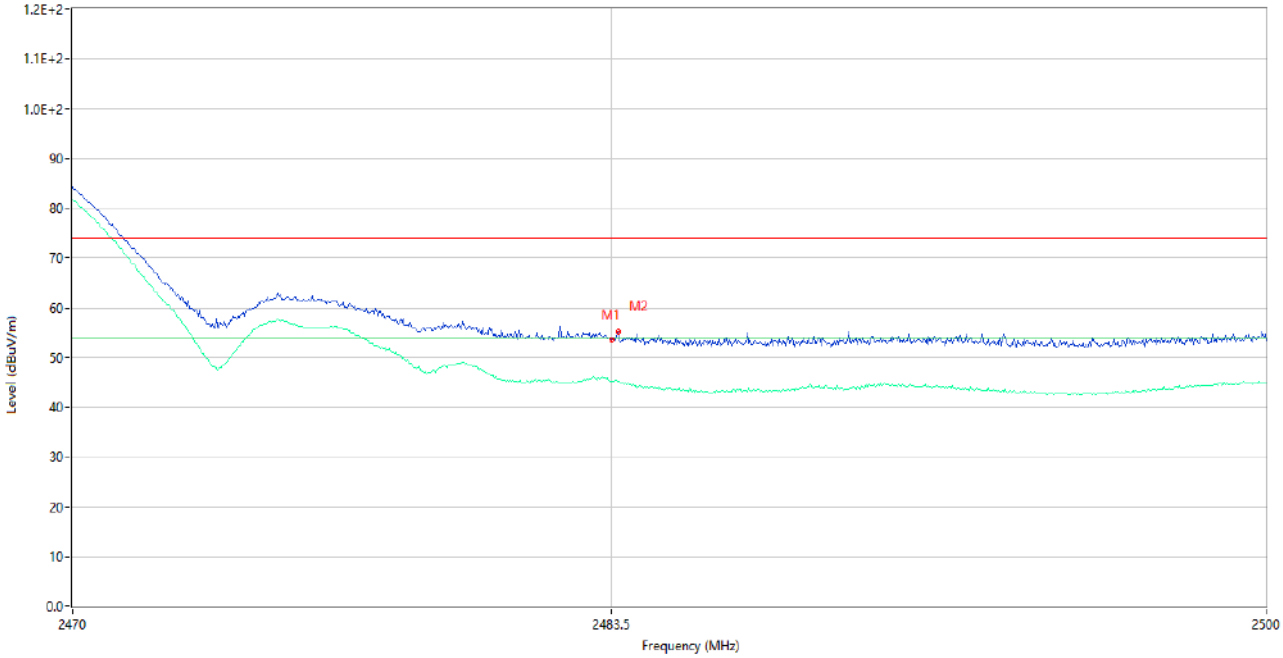
Main Antenna:

802.11b LOW CHANNEL



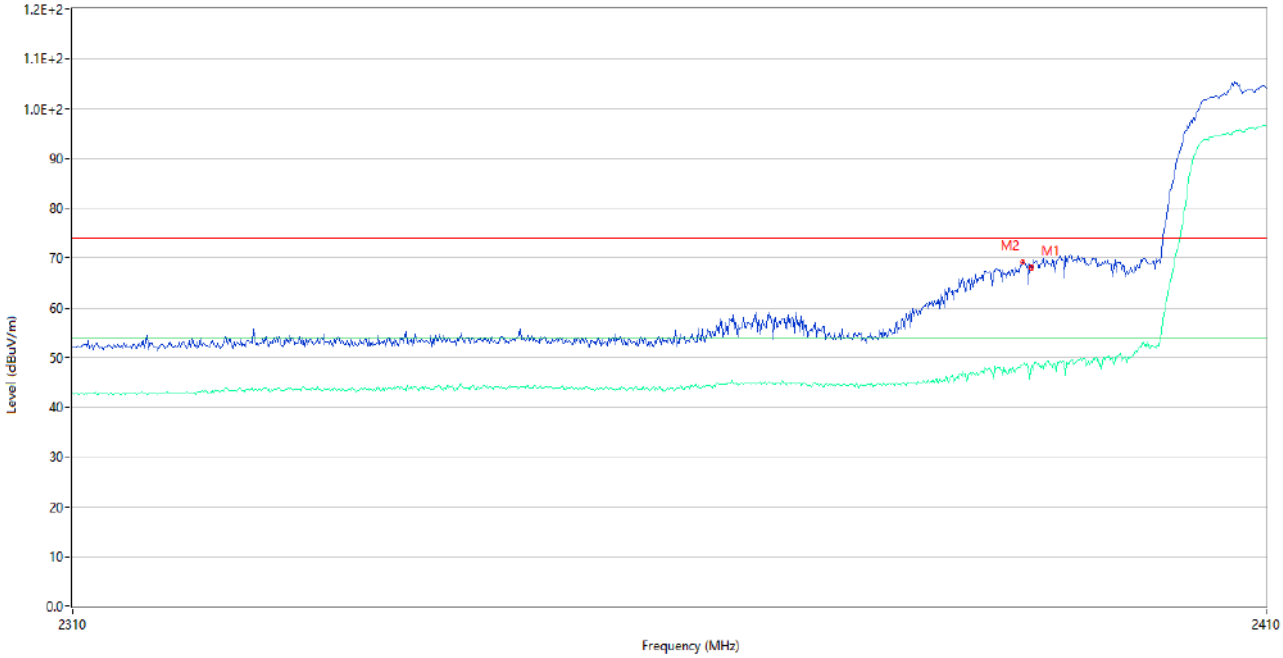

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 52.60 | -3.73 | 74.0 | 21.40 | Peak | 168.05 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 43.27 | -3.73 | 54.0 | 10.73 | AV | 168.05 | 150 | Horizontal | Pass |
| 2 | 2386.200 | 57.22 | -3.52 | 74.0 | 16.78 | Peak | 188.00 | 150 | Horizontal | Pass |
| 2** | 2386.200 | 49.49 | -3.52 | 54.0 | 4.51 | AV | 188.00 | 150 | Horizontal | Pass |

802.11b HIGH CHANNEL



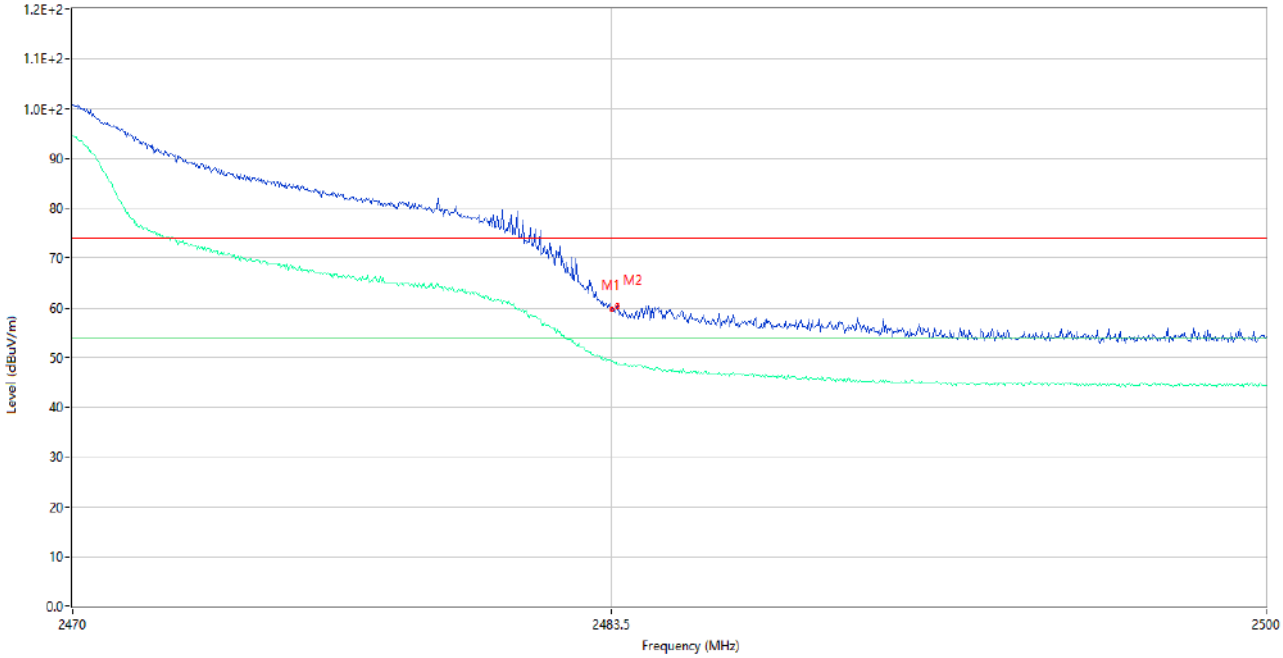

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 53.53 | -2.60 | 74.0 | 20.47 | Peak | 230.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 45.27 | -2.60 | 54.0 | 8.73 | AV | 230.00 | 150 | Horizontal | Pass |
| 2 | 2483.680 | 55.20 | -2.60 | 74.0 | 18.80 | Peak | 227.00 | 150 | Horizontal | Pass |
| 2** | 2483.680 | 45.20 | -2.60 | 54.0 | 8.80 | AV | 227.00 | 150 | Horizontal | Pass |

802.11g LOW CHANNEL



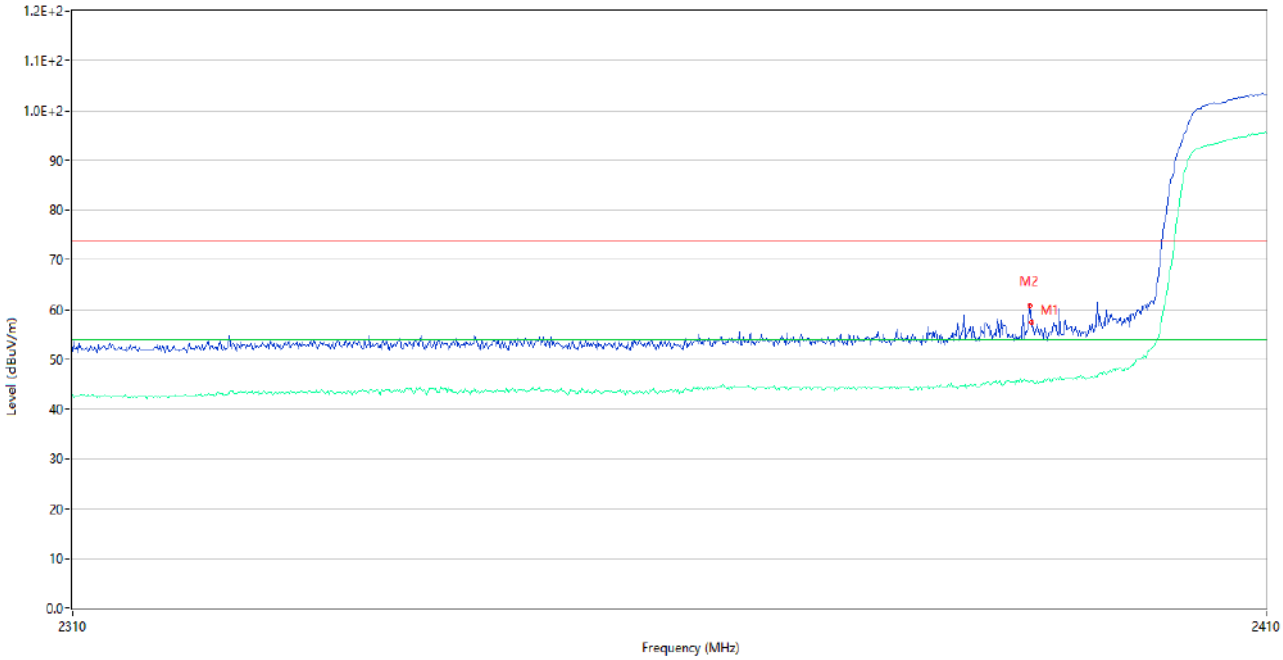

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 67.93 | -3.73 | 74.0 | 6.07 | Peak | 229.97 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 48.37 | -3.73 | 54.0 | 5.63 | AV | 229.97 | 150 | Horizontal | Pass |
| 2 | 2389.300 | 69.19 | -3.69 | 74.0 | 4.81 | Peak | 192.00 | 150 | Horizontal | Pass |
| 2** | 2389.300 | 48.61 | -3.69 | 54.0 | 5.39 | AV | 192.00 | 150 | Horizontal | Pass |

802.11g HIGH CHANNEL



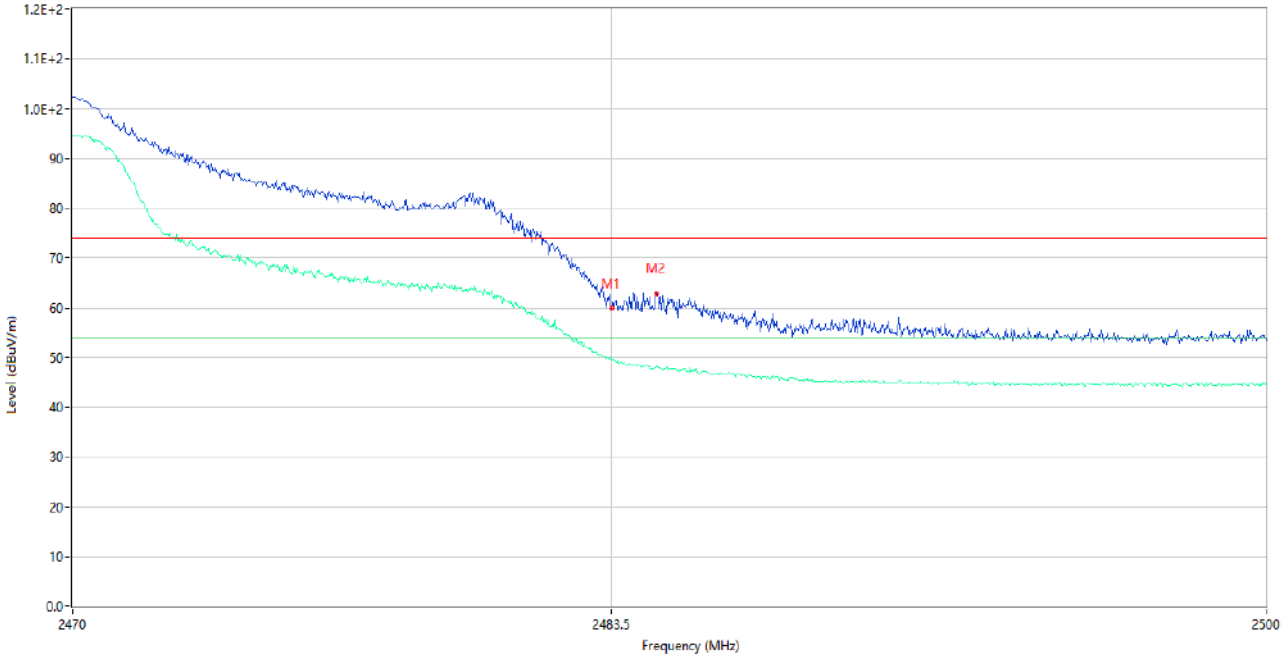

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 59.65 | -2.60 | 74.0 | 14.35 | Peak | 217.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 49.18 | -2.60 | 54.0 | 4.82 | AV | 217.00 | 150 | Horizontal | Pass |
| 2 | 2483.650 | 60.36 | -2.60 | 74.0 | 13.64 | Peak | 242.00 | 150 | Horizontal | Pass |
| 2** | 2483.650 | 48.68 | -2.60 | 54.0 | 5.32 | AV | 242.00 | 150 | Horizontal | Pass |

802.11n20 LOW CHANNEL



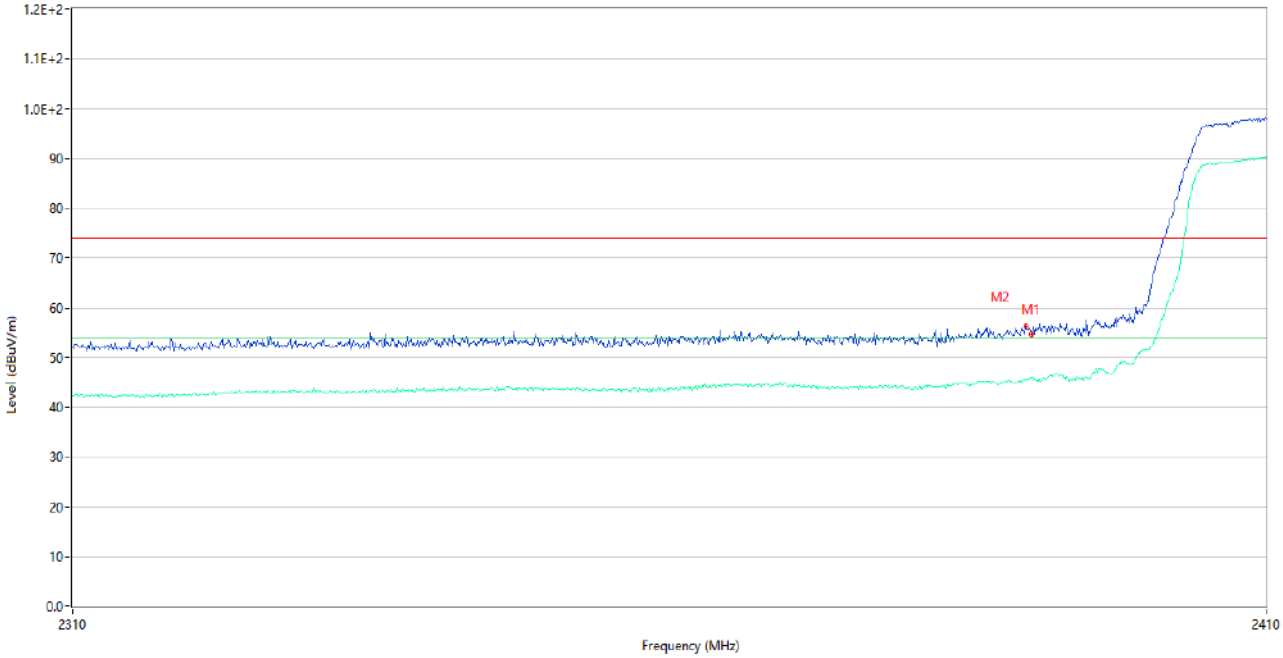

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 57.45 | -3.73 | 74.0 | 16.55 | Peak | 215.97 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 45.57 | -3.73 | 54.0 | 8.43 | AV | 215.97 | 150 | Horizontal | Pass |
| 2 | 2389.900 | 60.78 | -3.72 | 74.0 | 13.22 | Peak | 193.00 | 150 | Horizontal | Pass |
| 2** | 2389.900 | 45.34 | -3.72 | 54.0 | 8.66 | AV | 193.00 | 150 | Horizontal | Pass |

802.11n20 HIGH CHANNEL



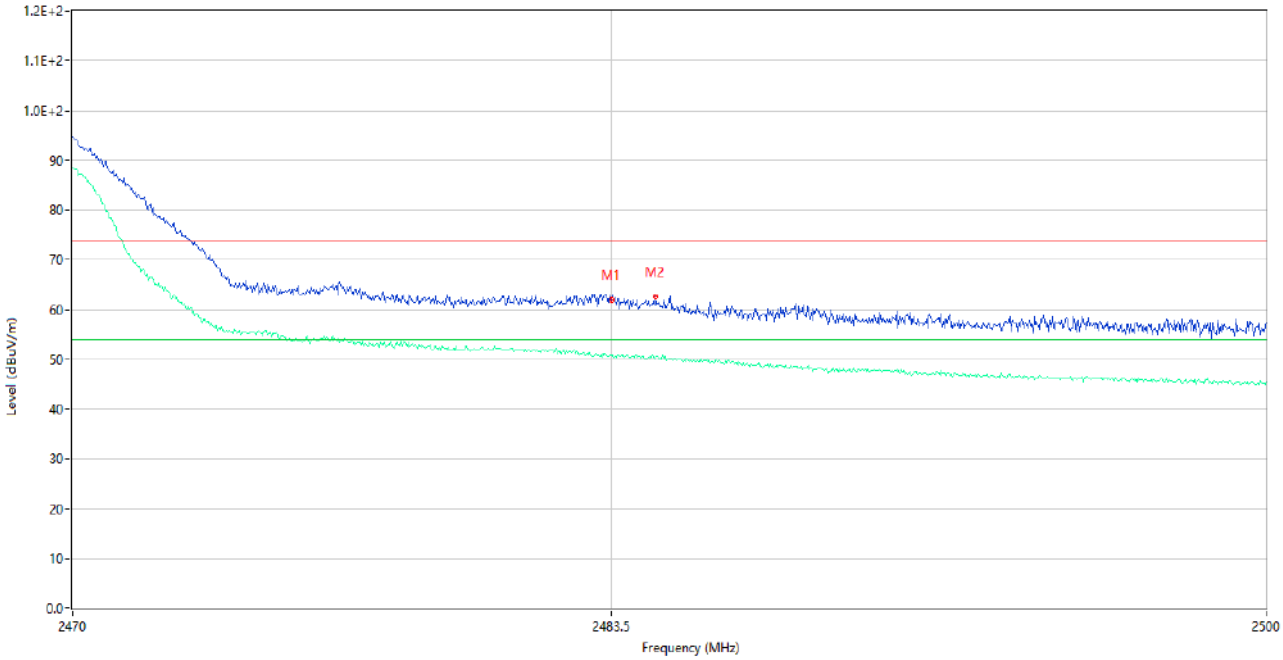

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 59.96 | -2.60 | 74.0 | 14.04 | Peak | 236.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 49.86 | -2.60 | 54.0 | 4.14 | AV | 236.00 | 150 | Horizontal | Pass |
| 2 | 2484.640 | 62.90 | -2.61 | 74.0 | 11.10 | Peak | 241.00 | 150 | Horizontal | Pass |
| 2** | 2484.640 | 48.05 | -2.61 | 54.0 | 5.95 | AV | 241.00 | 150 | Horizontal | Pass |

802.11n40 LOW CHANNEL



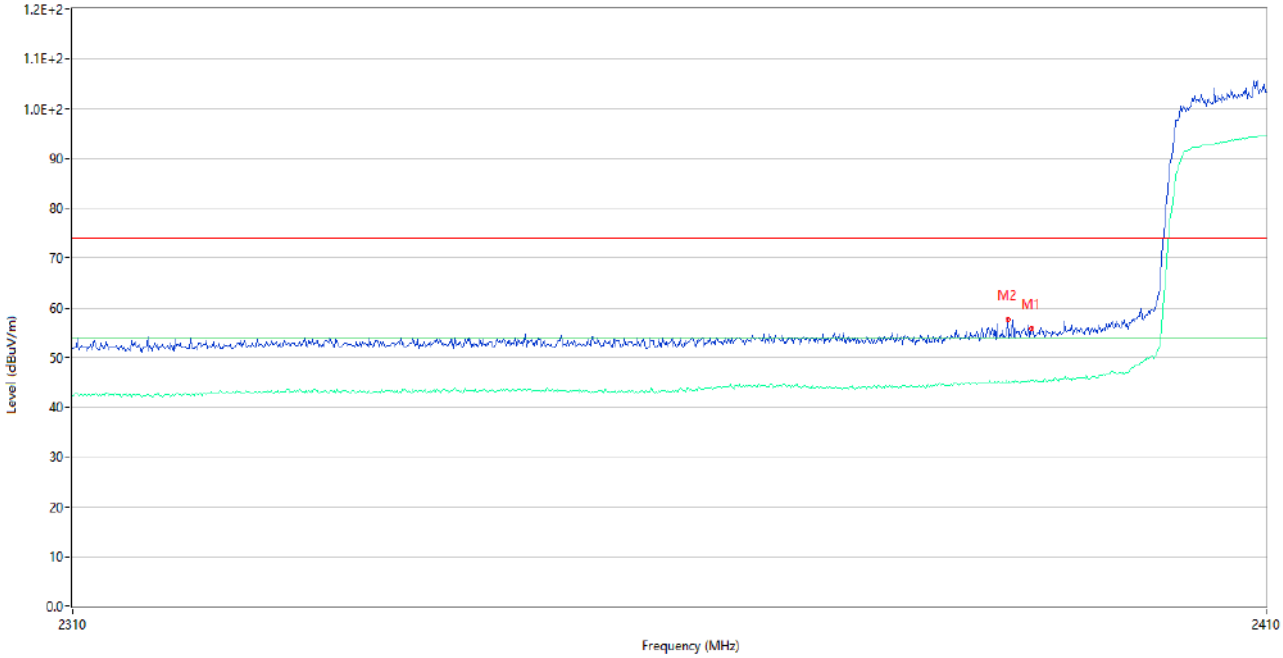

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 51.10 | -3.73 | 74.0 | 22.90 | Peak | 353.01 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 41.98 | -3.73 | 54.0 | 12.02 | AV | 353.01 | 150 | Horizontal | Pass |
| 2 | 2389.500 | 56.29 | -3.70 | 74.0 | 17.71 | Peak | 229.00 | 150 | Horizontal | Pass |
| 2** | 2389.500 | 45.51 | -3.70 | 54.0 | 8.49 | AV | 229.00 | 150 | Horizontal | Pass |

802.11n40 HIGH CHANNEL



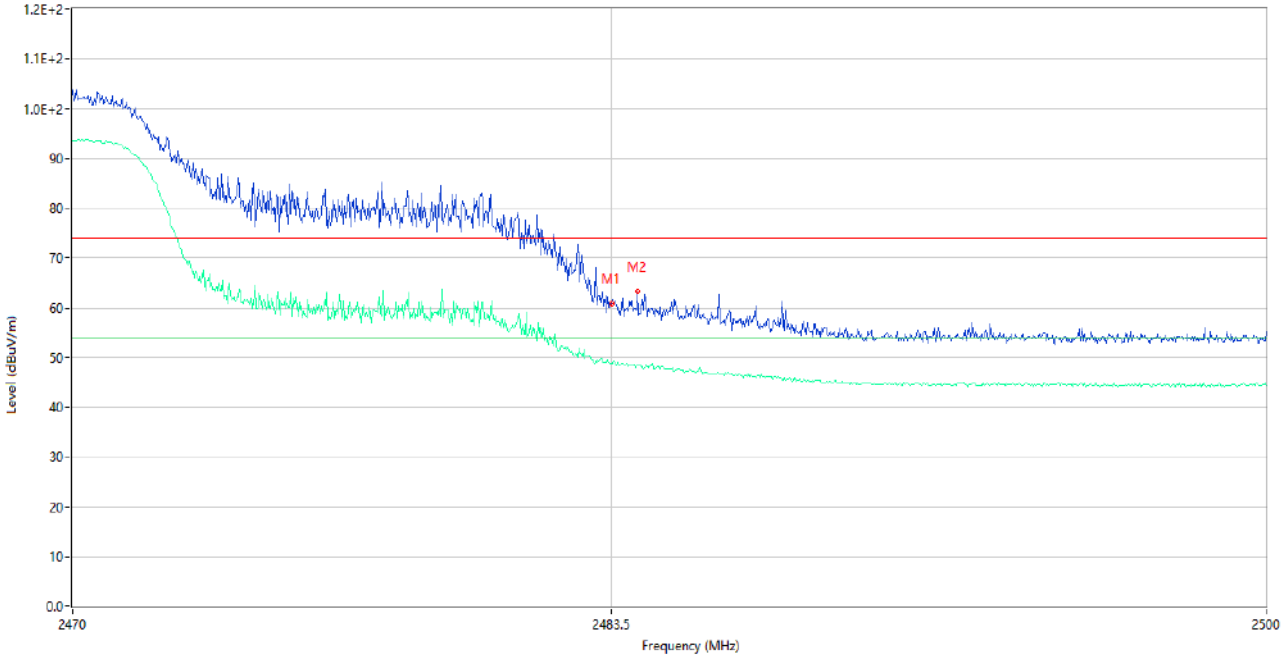

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 61.89 | -2.60 | 74.0 | 12.11 | Peak | 228.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 50.87 | -2.60 | 54.0 | 3.13 | AV | 228.00 | 150 | Horizontal | Pass |
| 2 | 2484.610 | 62.66 | -2.61 | 74.0 | 11.34 | Peak | 243.00 | 150 | Horizontal | Pass |
| 2** | 2484.610 | 50.41 | -2.61 | 54.0 | 3.59 | AV | 243.00 | 150 | Horizontal | Pass |

802.11ax20(SU) LOW CHANNEL



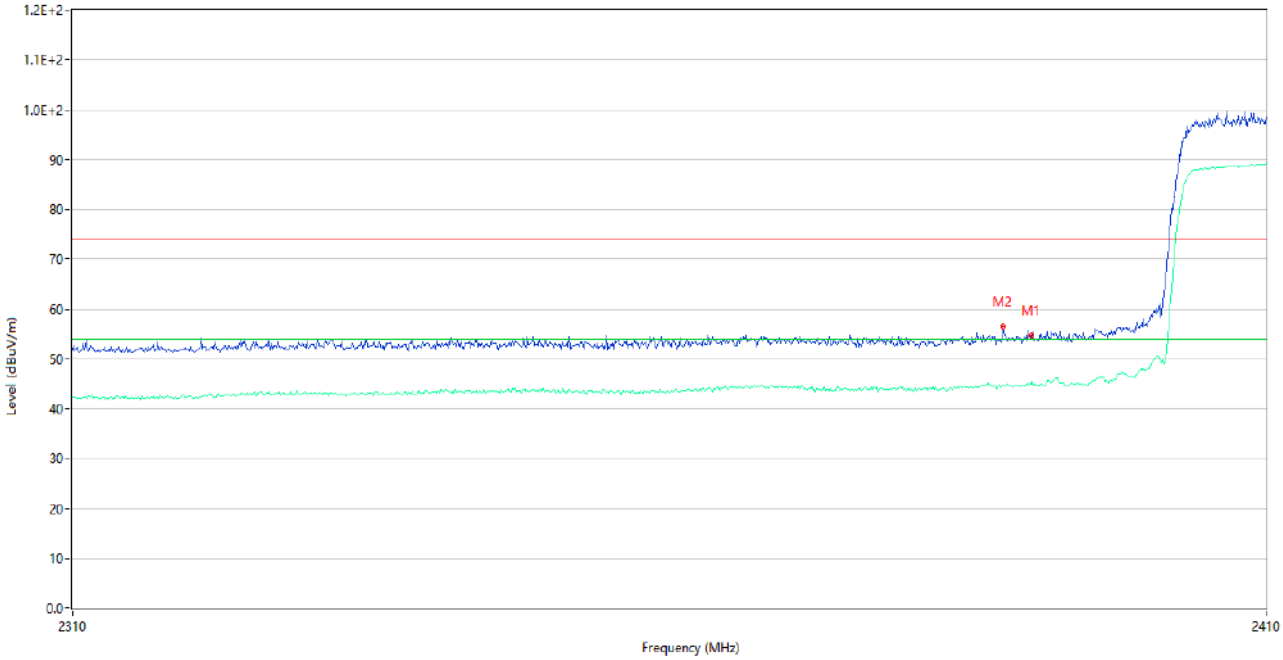

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 55.72 | -3.73 | 74.0 | 18.28 | Peak | 193.02 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 45.41 | -3.73 | 54.0 | 8.59 | AV | 193.02 | 150 | Horizontal | Pass |
| 2 | 2388.000 | 57.61 | -3.62 | 74.0 | 16.39 | Peak | 274.00 | 150 | Horizontal | Pass |
| 2** | 2388.000 | 45.03 | -3.62 | 54.0 | 8.97 | AV | 274.00 | 150 | Horizontal | Pass |

802.11ax20(SU) HIGH CHANNEL



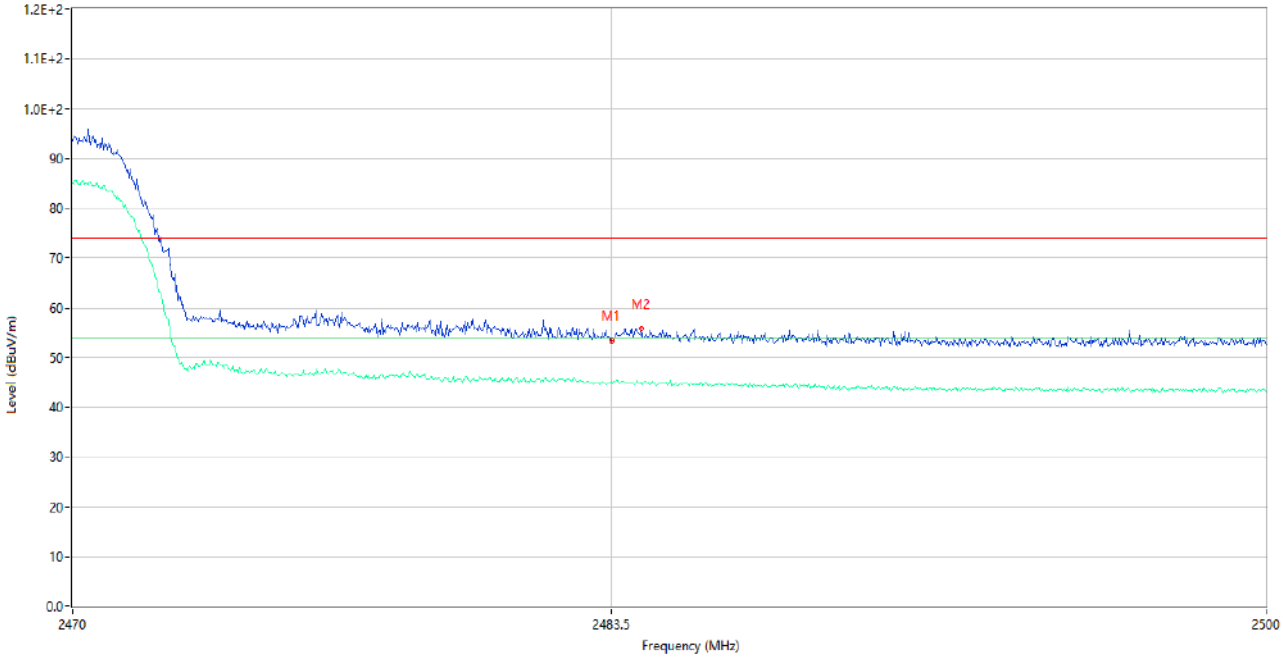

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 60.80 | -2.60 | 74.0 | 13.20 | Peak | 240.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 48.75 | -2.60 | 54.0 | 5.25 | AV | 240.00 | 150 | Horizontal | Pass |
| 2 | 2484.160 | 63.30 | -2.61 | 74.0 | 10.70 | Peak | 240.00 | 150 | Horizontal | Pass |
| 2** | 2484.160 | 48.28 | -2.61 | 54.0 | 5.72 | AV | 240.00 | 150 | Horizontal | Pass |

802.11ax40(SU) LOW CHANNEL




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 54.65 | -3.73 | 74.0 | 19.35 | Peak | 223.03 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 45.40 | -3.73 | 54.0 | 8.60 | AV | 223.03 | 150 | Horizontal | Pass |
| 2 | 2387.600 | 56.48 | -3.60 | 74.0 | 17.52 | Peak | 221.00 | 150 | Horizontal | Pass |
| 2** | 2387.600 | 44.68 | -3.60 | 54.0 | 9.32 | AV | 221.00 | 150 | Horizontal | Pass |

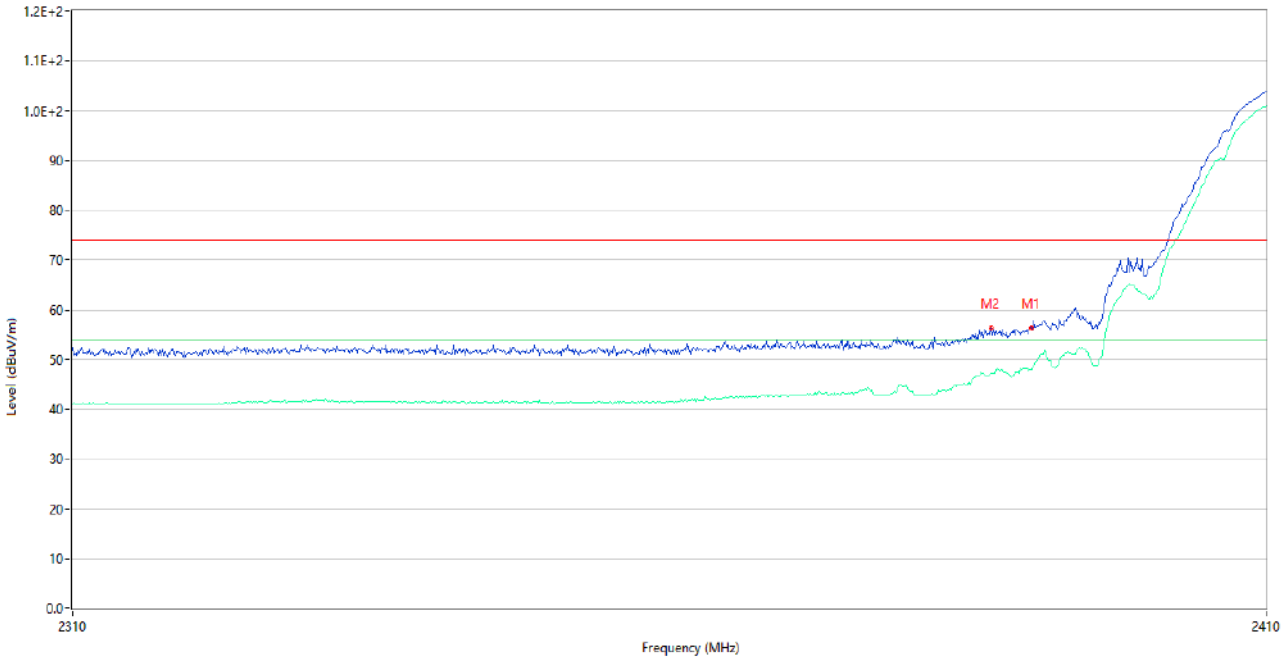
802.11 ax40(SU) HIGH CHANNEL




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 53.41 | -2.60 | 74.0 | 20.59 | Peak | 218.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 45.12 | -2.60 | 54.0 | 8.88 | AV | 218.00 | 150 | Horizontal | Pass |
| 2 | 2484.250 | 55.83 | -2.61 | 74.0 | 18.17 | Peak | 237.00 | 150 | Horizontal | Pass |
| 2** | 2484.250 | 44.93 | -2.61 | 54.0 | 9.07 | AV | 237.00 | 150 | Horizontal | Pass |

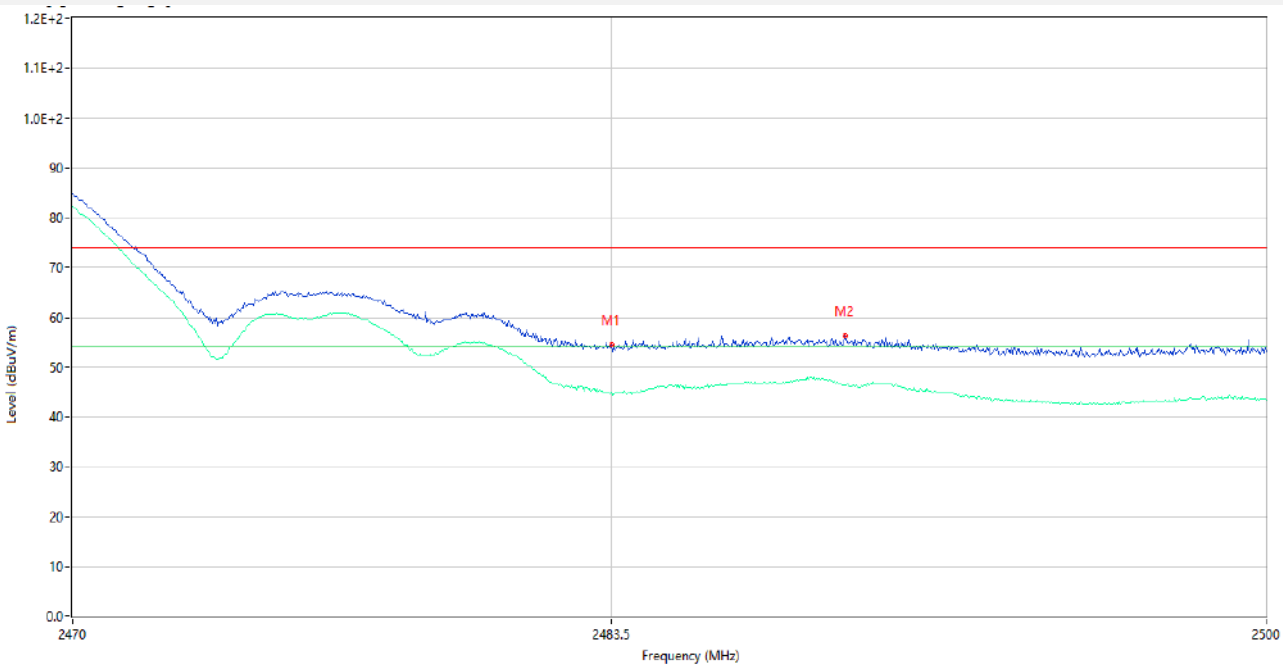
Aux. Antenna:

802.11b LOW CHANNEL



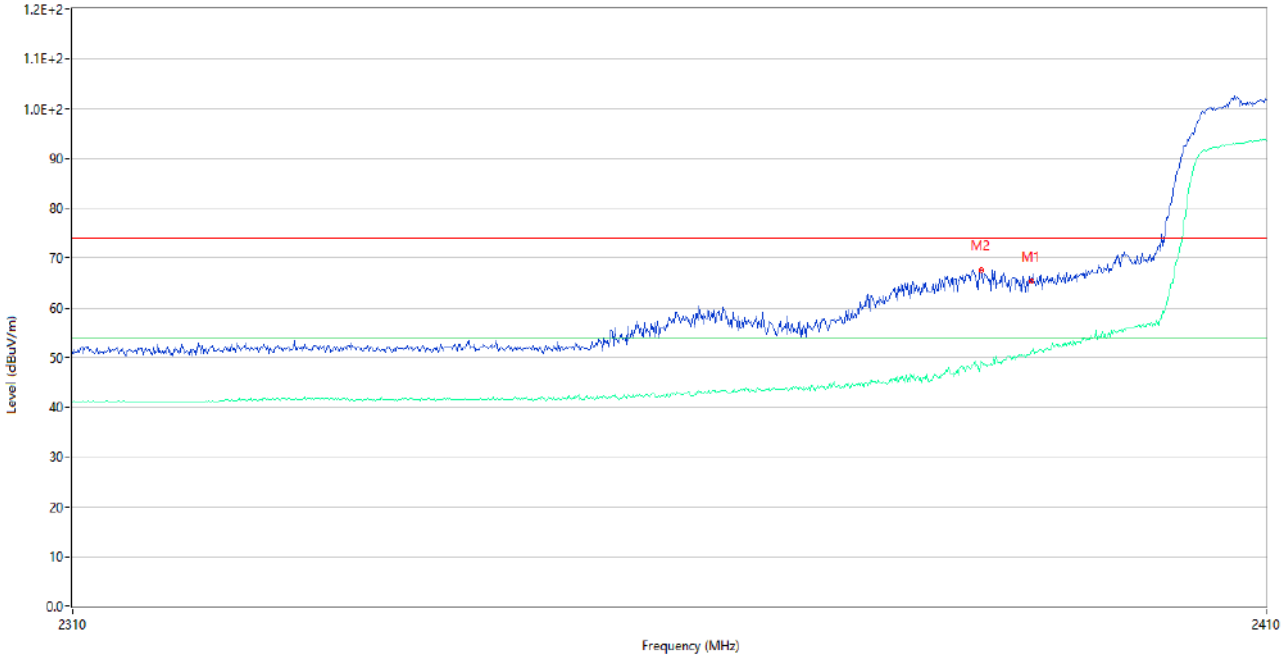

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 56.34 | -3.73 | 74.0 | 17.66 | Peak | 213.01 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 47.87 | -3.73 | 54.0 | 6.13 | AV | 213.01 | 150 | Horizontal | Pass |
| 2 | 2386.600 | 56.29 | -3.54 | 74.0 | 17.71 | Peak | 213.00 | 150 | Horizontal | Pass |
| 2** | 2386.600 | 47.17 | -3.54 | 54.0 | 6.83 | AV | 213.00 | 150 | Horizontal | Pass |

802.11b HIGH CHANNEL



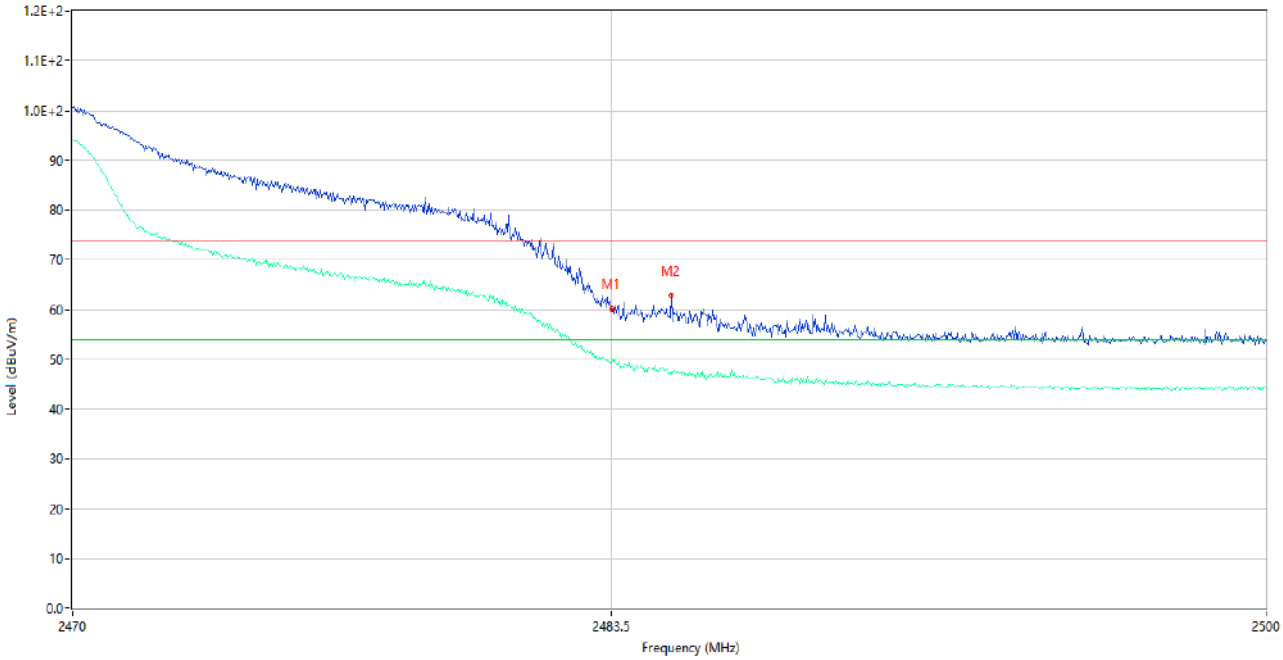

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 54.45 | -2.60 | 74.0 | 19.55 | Peak | 346.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 45.03 | -2.60 | 54.0 | 8.97 | AV | 346.00 | 150 | Horizontal | Pass |
| 2 | 2489.380 | 56.19 | -2.69 | 74.0 | 17.81 | Peak | 216.00 | 150 | Horizontal | Pass |
| 2** | 2489.380 | 46.37 | -2.69 | 54.0 | 7.63 | AV | 216.00 | 150 | Horizontal | Pass |

802.11g LOW CHANNEL



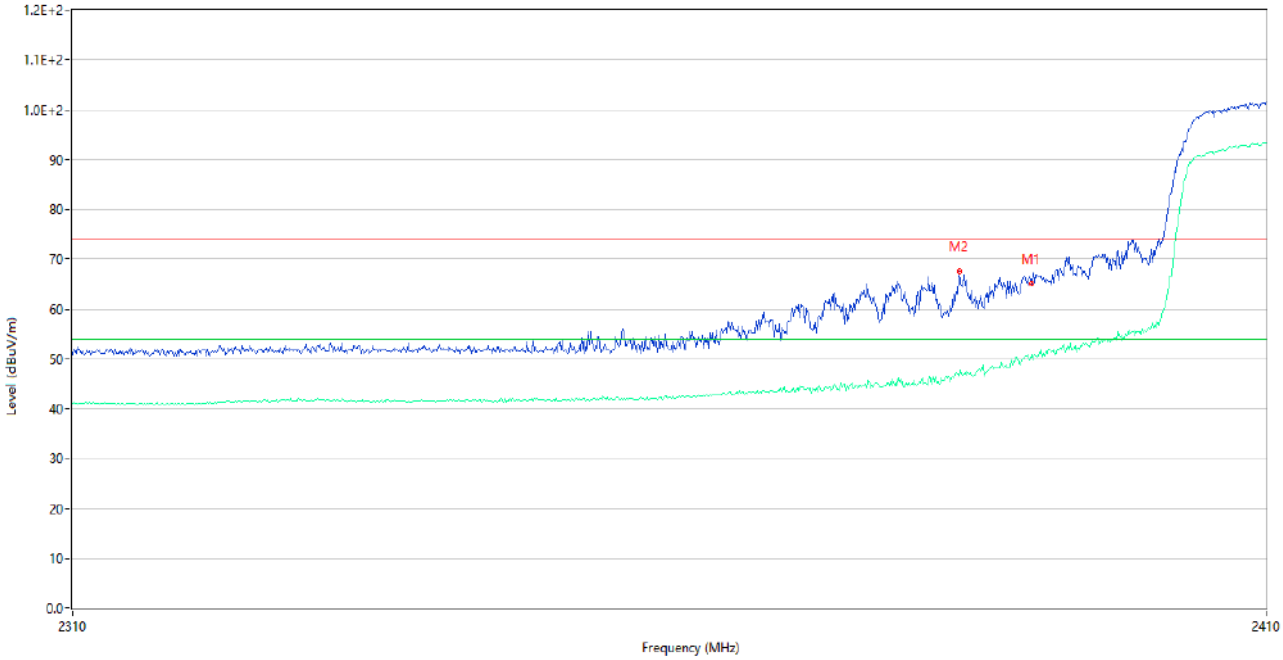

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 65.20 | -3.73 | 74.0 | 8.80 | Peak | 236.97 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 51.40 | -3.73 | 54.0 | 2.60 | AV | 236.97 | 150 | Horizontal | Pass |
| 2 | 2385.700 | 67.63 | -3.49 | 74.0 | 6.37 | Peak | 220.00 | 150 | Horizontal | Pass |
| 2** | 2385.700 | 49.25 | -3.49 | 54.0 | 4.75 | AV | 220.00 | 150 | Horizontal | Pass |

## 802.11g HIGH CHANNEL



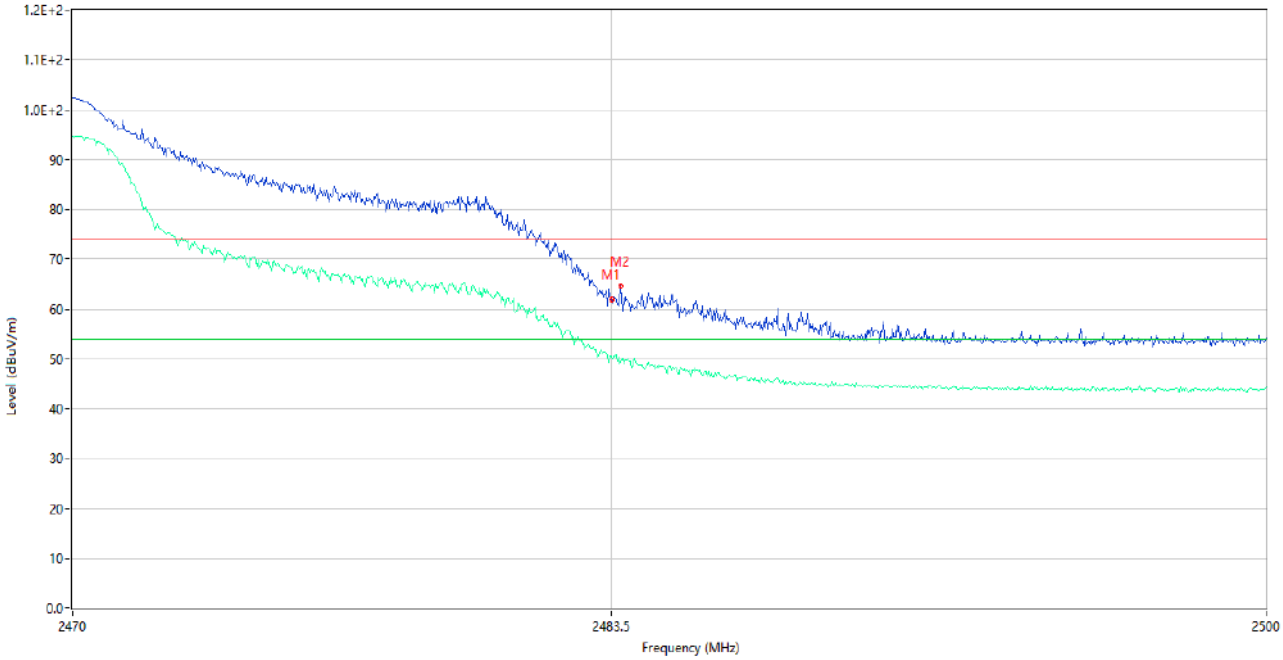

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 60.16 | -2.60 | 74.0 | 13.84 | Peak | 216.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 49.30 | -2.60 | 54.0 | 4.70 | AV | 216.00 | 150 | Horizontal | Pass |
| 2 | 2485.000 | 62.72 | -2.62 | 74.0 | 11.28 | Peak | 216.00 | 150 | Horizontal | Pass |
| 2** | 2485.000 | 47.42 | -2.62 | 54.0 | 6.58 | AV | 216.00 | 150 | Horizontal | Pass |

802.11n20 LOW CHANNEL



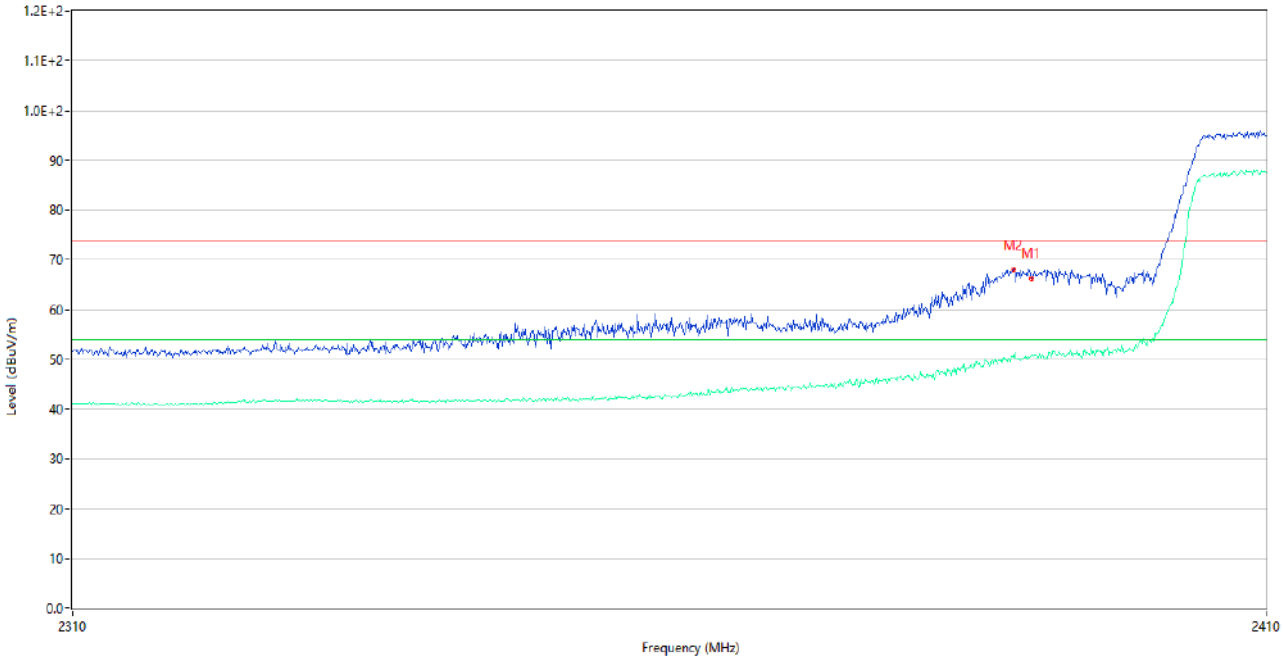

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 65.07 | -3.73 | 74.0 | 8.93 | Peak | 229.01 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 50.77 | -3.73 | 54.0 | 3.23 | AV | 229.01 | 150 | Horizontal | Pass |
| 2 | 2383.900 | 67.52 | -3.35 | 74.0 | 6.48 | Peak | 221.00 | 150 | Horizontal | Pass |
| 2** | 2383.900 | 46.46 | -3.35 | 54.0 | 7.54 | AV | 221.00 | 150 | Horizontal | Pass |

802.11n20 HIGH CHANNEL



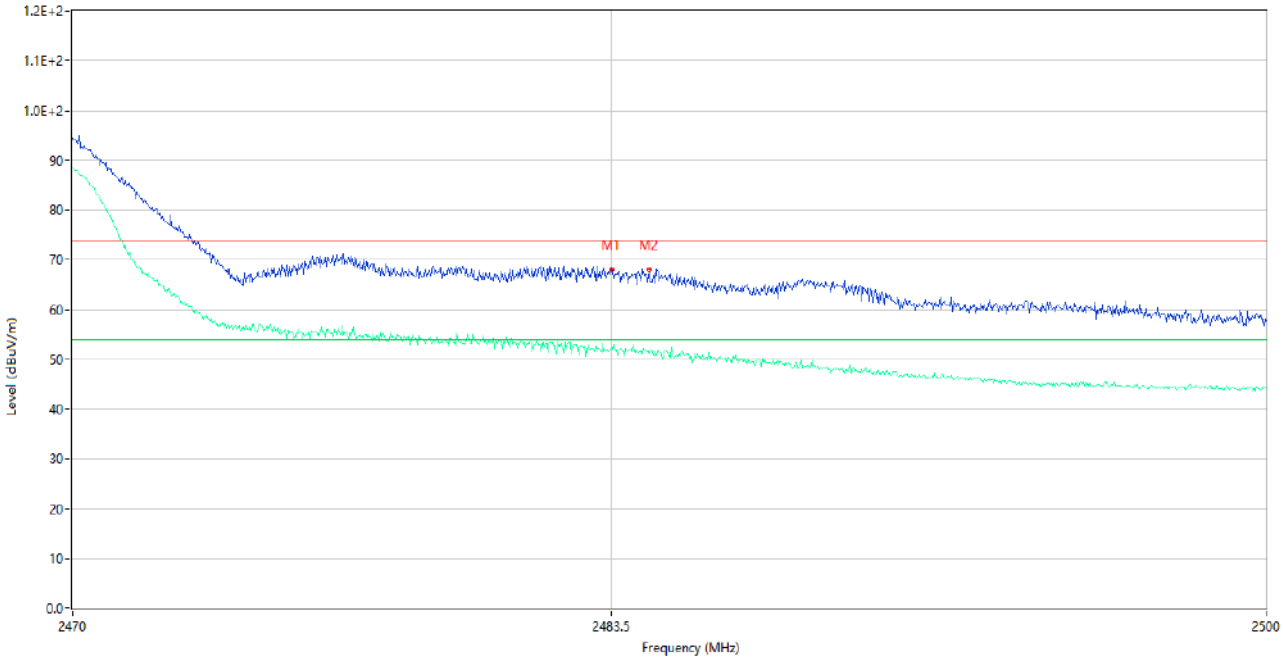

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 61.95 | -2.60 | 74.0 | 12.05 | Peak | 220.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 50.56 | -2.60 | 54.0 | 3.44 | AV | 220.00 | 150 | Horizontal | Pass |
| 2 | 2483.740 | 64.71 | -2.60 | 74.0 | 9.29 | Peak | 211.00 | 150 | Horizontal | Pass |
| 2** | 2483.740 | 49.21 | -2.60 | 54.0 | 4.79 | AV | 211.00 | 150 | Horizontal | Pass |

802.11n40 LOW CHANNEL



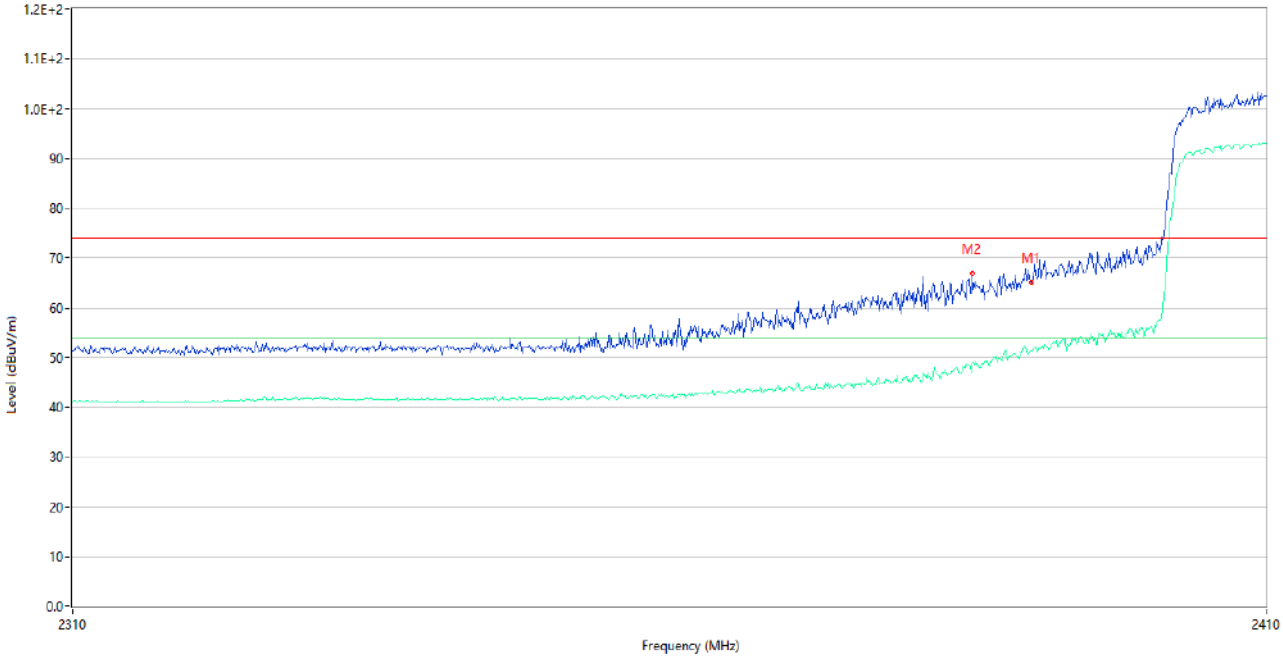

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 66.32 | -3.73 | 74.0 | 7.68 | Peak | 219.99 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 50.79 | -3.73 | 54.0 | 3.21 | AV | 219.99 | 150 | Horizontal | Pass |
| 2 | 2388.500 | 67.96 | -3.65 | 74.0 | 6.04 | Peak | 220.00 | 150 | Horizontal | Pass |
| 2** | 2388.500 | 50.29 | -3.65 | 54.0 | 3.71 | AV | 220.00 | 150 | Horizontal | Pass |

802.11n40 HIGH CHANNEL



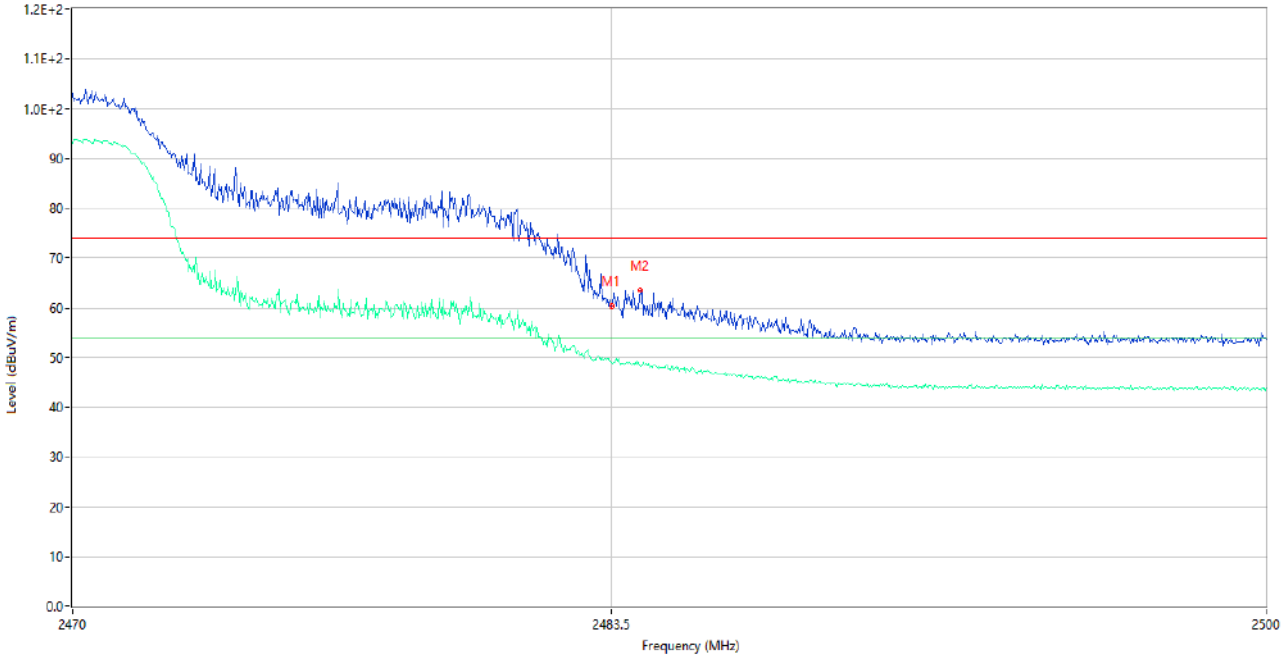

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 67.94 | -2.60 | 74.0 | 6.06 | Peak | 215.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 52.09 | -2.60 | 54.0 | 1.91 | AV | 215.00 | 150 | Horizontal | Pass |
| 2 | 2484.460 | 68.08 | -2.61 | 74.0 | 5.92 | Peak | 221.00 | 150 | Horizontal | Pass |
| 2** | 2484.460 | 51.16 | -2.61 | 54.0 | 2.84 | AV | 221.00 | 150 | Horizontal | Pass |

802.11ax20(SU) LOW CHANNEL



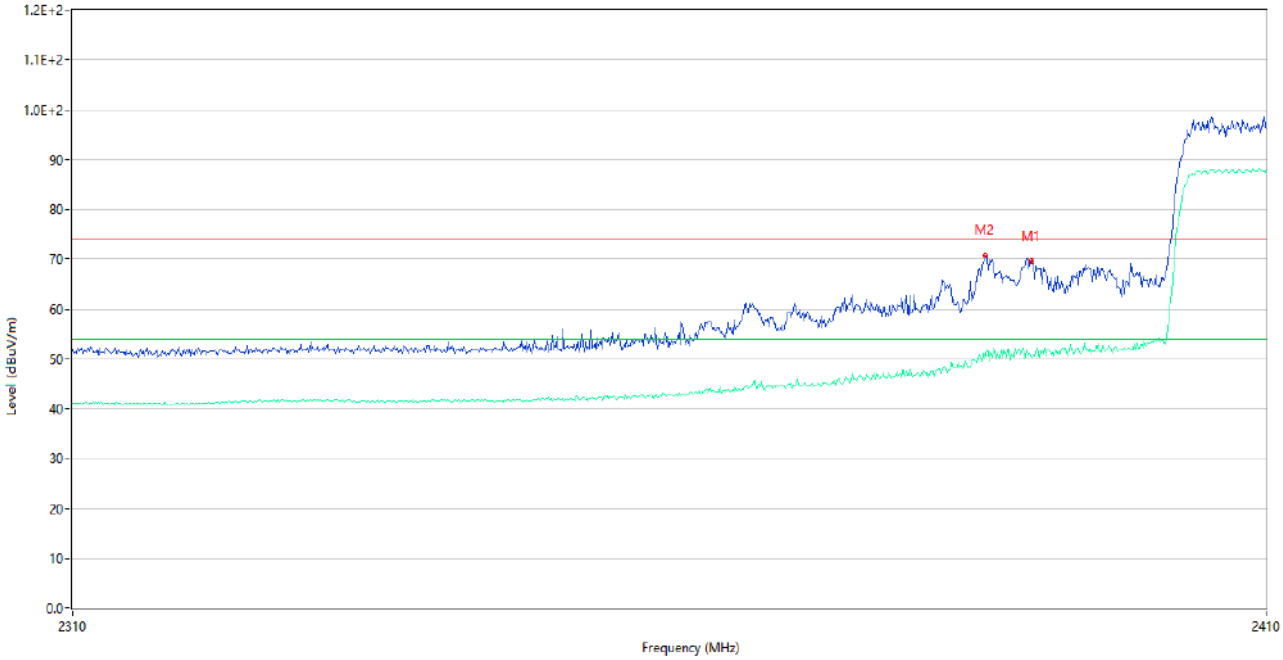

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 65.01 | -3.73 | 74.0 | 8.99 | Peak | 241.97 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 51.29 | -3.73 | 54.0 | 2.71 | AV | 241.97 | 150 | Horizontal | Pass |
| 2 | 2385.000 | 66.83 | -3.44 | 74.0 | 7.17 | Peak | 212.00 | 150 | Horizontal | Pass |
| 2** | 2385.000 | 48.66 | -3.44 | 54.0 | 5.34 | AV | 212.00 | 150 | Horizontal | Pass |

802.11ax20(SU) HIGH CHANNEL



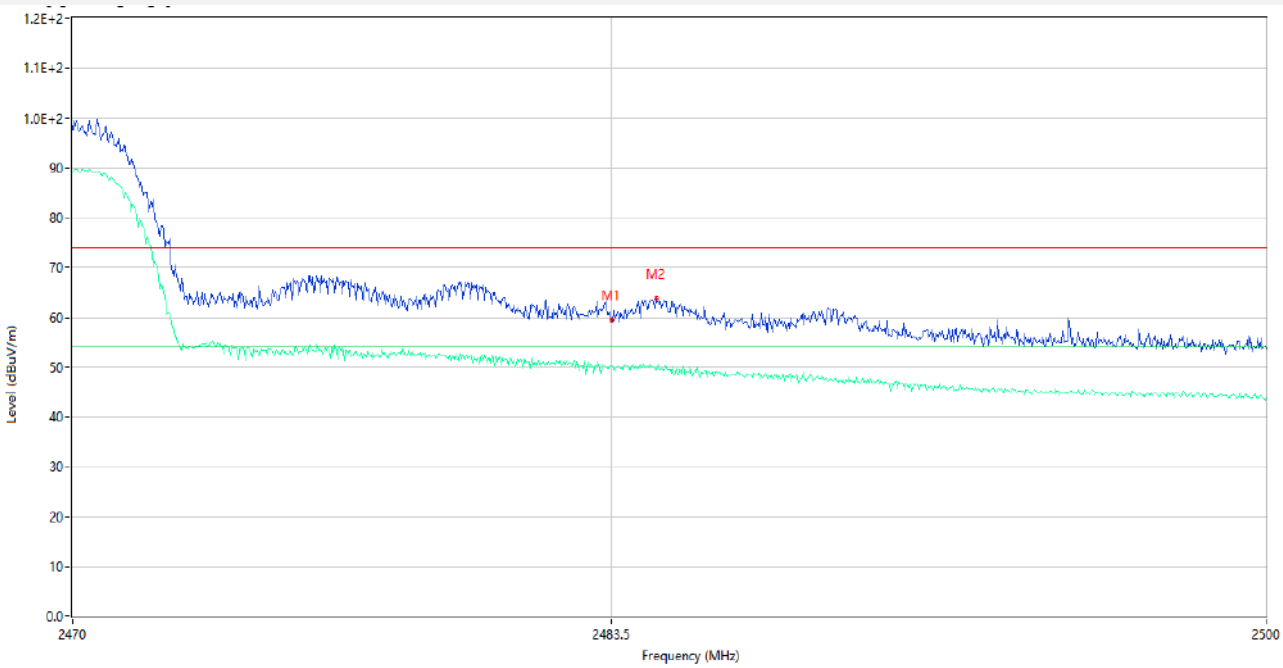

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 60.37 | -2.60 | 74.0 | 13.63 | Peak | 348.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 48.98 | -2.60 | 54.0 | 5.02 | AV | 348.00 | 150 | Horizontal | Pass |
| 2 | 2484.220 | 63.44 | -2.61 | 74.0 | 10.56 | Peak | 202.00 | 150 | Horizontal | Pass |
| 2** | 2484.220 | 48.17 | -2.61 | 54.0 | 5.83 | AV | 202.00 | 150 | Horizontal | Pass |

802.11ax40(SU) LOW CHANNEL




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 69.53 | -3.73 | 74.0 | 4.47 | Peak | 223.02 | 150 | Horizontal | Pass |
| 1** | 2390.000 | 50.50 | -3.73 | 54.0 | 3.50 | AV | 223.02 | 150 | Horizontal | Pass |
| 2 | 2386.100 | 70.63 | -3.52 | 74.0 | 3.37 | Peak | 221.00 | 150 | Horizontal | Pass |
| 2** | 2386.100 | 50.22 | -3.52 | 54.0 | 3.78 | AV | 221.00 | 150 | Horizontal | Pass |

802.11ax40(SU) HIGH CHANNEL




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin(dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 59.52 | -2.60 | 74.0 | 14.48 | Peak | 219.00 | 150 | Horizontal | Pass |
| 1** | 2483.500 | 50.27 | -2.60 | 54.0 | 3.73 | AV | 219.00 | 150 | Horizontal | Pass |
| 2 | 2484.640 | 63.77 | -2.61 | 74.0 | 10.23 | Peak | 222.00 | 150 | Horizontal | Pass |
| 2** | 2484.640 | 49.55 | -2.61 | 54.0 | 4.45 | AV | 222.00 | 150 | Horizontal | Pass |

## A.8 Power Spectral Density (PSD)

Note: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

Main Antenna:

802.11b Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -4.91 | 8 |
| Middle | -6.98 | 8 |
| High | -6.40 | 8 |

802.11g Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -10.93 | 8 |
| Middle | -11.03 | 8 |
| High | -10.86 | 8 |

802.11n-20 MHz Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -13.39 | 8 |
| Middle | -9.76 | 8 |
| High | -9.83 | 8 |

802.11n-40 MHz Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -17.51 | 8 |
| Middle | -14.41 | 8 |
| High | -13.79 | 8 |

802.11ax-20 MHz(SU) Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -11.75 | 8 |
| Middle | -10.95 | 8 |
| High | -10.72 | 8 |

802.11ax-40 MHz(SU) Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -16.53 | 8 |
| Middle | -14.41 | 8 |
| High | -14.62 | 8 |

Aux. Antenna:

802.11b Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -5.09 | 8 |
| Middle | -5.73 | 8 |
| High | -5.09 | 8 |

802.11g Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -10.48 | 8 |
| Middle | -9.18 | 8 |
| High | -9.29 | 8 |

802.11n-20 MHz Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -11.73 | 8 |
| Middle | -8.87 | 8 |
| High | -9.54 | 8 |

802.11n-40 MHz Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -15.78 | 8 |
| Middle | -13.59 | 8 |
| High | -14.11 | 8 |

802.11ax-20 MHz(SU) Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -9.54 | 8 |
| Middle | -9.50 | 8 |
| High | -9.43 | 8 |

802.11ax-40 MHz(SU) Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -16.57 | 8 |
| Middle | -15.23 | 8 |
| High | -14.45 | 8 |

MIMO:

802.11b Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -1.99 | 5.94 |
| Middle | -3.30 | 5.94 |
| High | -2.69 | 5.94 |

802.11g Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -7.69 | 5.94 |
| Middle | -7.00 | 5.94 |
| High | -7.00 | 5.94 |

802.11n-20 MHz Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -9.47 | 8 |
| Middle | -6.28 | 8 |
| High | -6.67 | 8 |

802.11n-40 MHz Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -13.54 | 8 |
| Middle | -10.97 | 8 |
| High | -10.94 | 8 |

802.11ax-20 MHz(SU) Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -7.49 | 8 |
| Middle | -7.15 | 8 |
| High | -7.02 | 8 |

802.11ax-40 MHz(SU) Mode:

| Channel | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|
| Low | -13.54 | 8 |
| Middle | -11.79 | 8 |
| High | -11.52 | 8 |

Test Plots

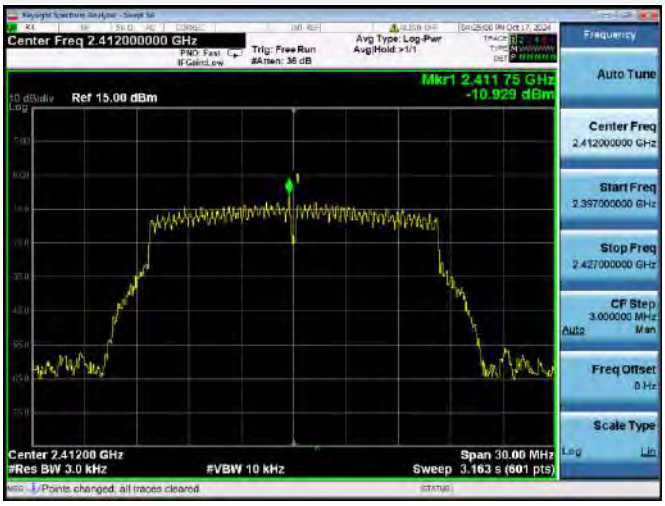
Main Antenna:

802.11b LOW CHANNEL

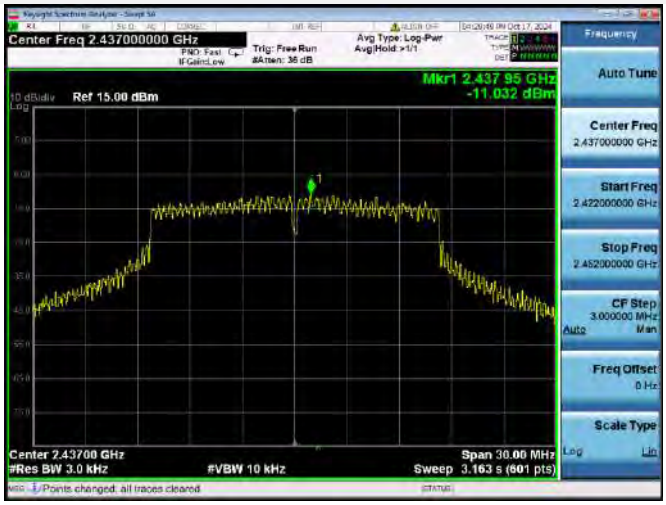
802.11b MIDDLE CHANNEL

802.11b HIGH CHANNEL

802.11g LOW CHANNEL



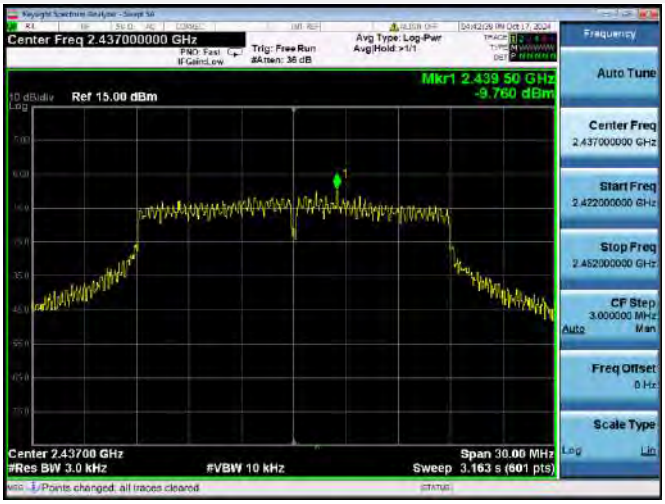

802.11g MIDDLE CHANNEL



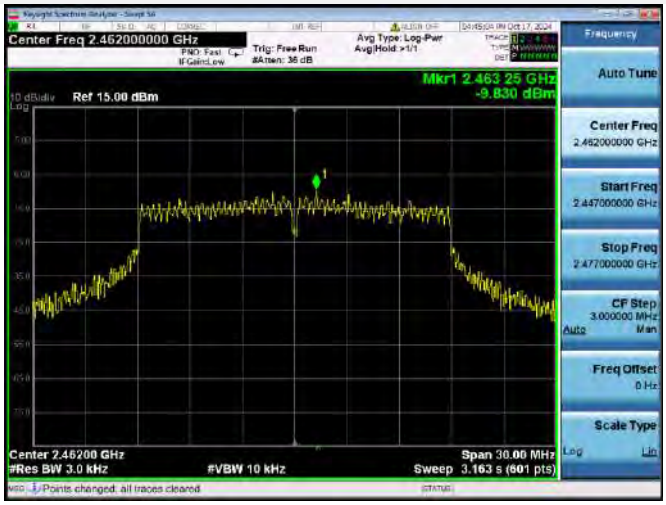

802.11g HIGH CHANNEL

802.11n-20 MHz LOW CHANNEL

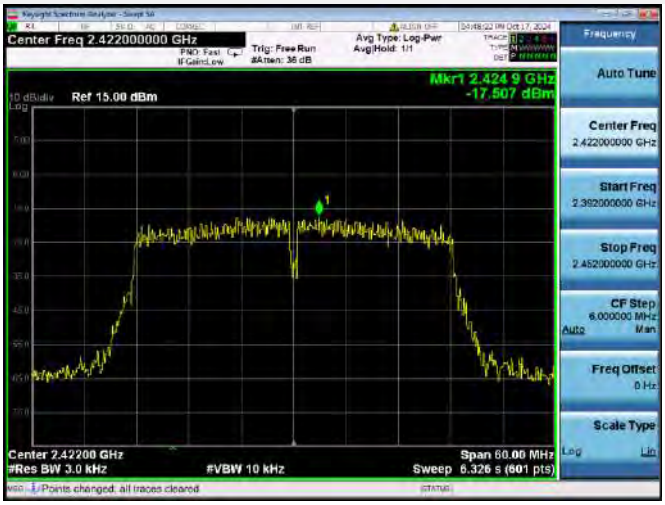
802.11 n-20 MHz MIDDLE CHANNEL




802.11n-20 MHz HIGH CHANNEL




802.11n-40 MHz LOW CHANNEL




802.11n-40 MHz MIDDLE CHANNEL

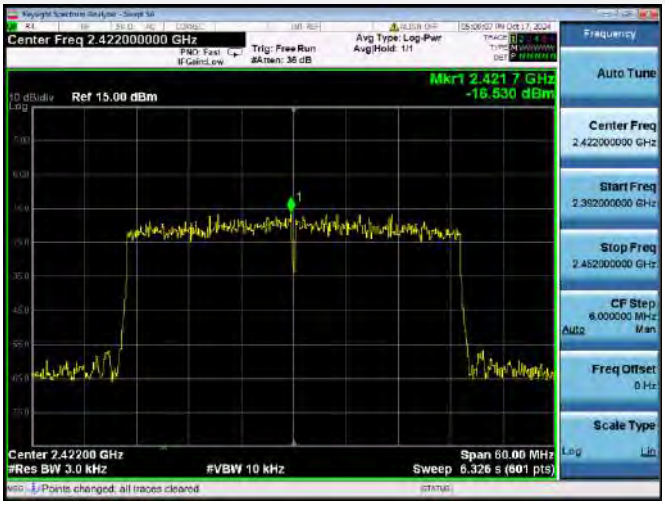
802.11n-40 MHz HIGH CHANNEL

802.11ax-20 MHz(SU) LOW CHANNEL

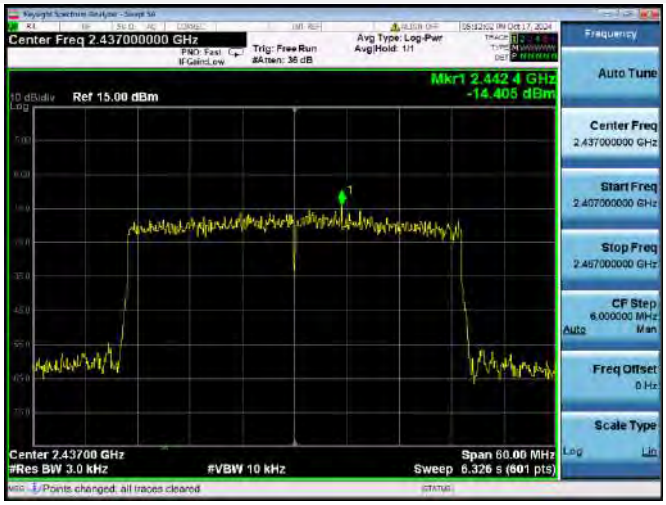
802.11ax-20 MHz(SU) MIDDLE CHANNEL

802.11ax-20 MHz(SU) HIGH CHANNEL

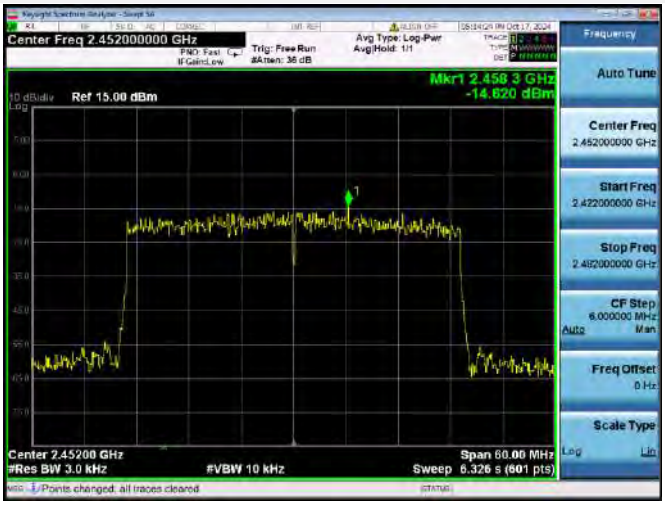
802.11ax-40 MHz(SU) LOW CHANNEL




802.11ax-40 MHz(SU) MIDDLE CHANNEL




802.11ax-40 MHz(SU) HIGH CHANNEL



Aux. Antenna:

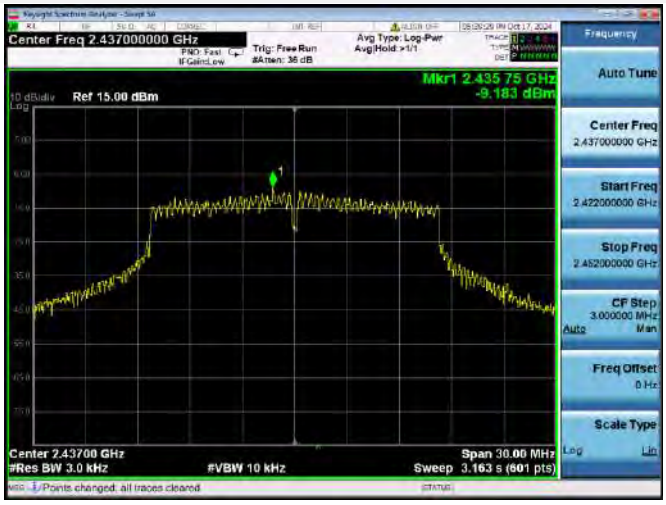
802.11b LOW CHANNEL

802.11b MIDDLE CHANNEL

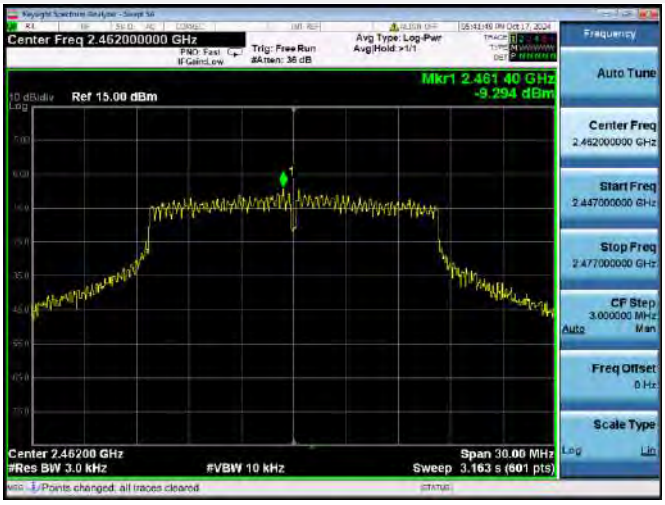
802.11b HIGH CHANNEL

802.11g LOW CHANNEL

802.11g MIDDLE CHANNEL



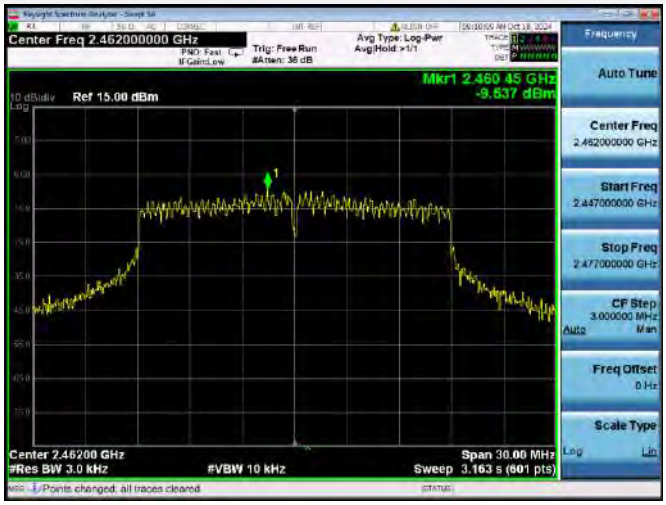

802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL

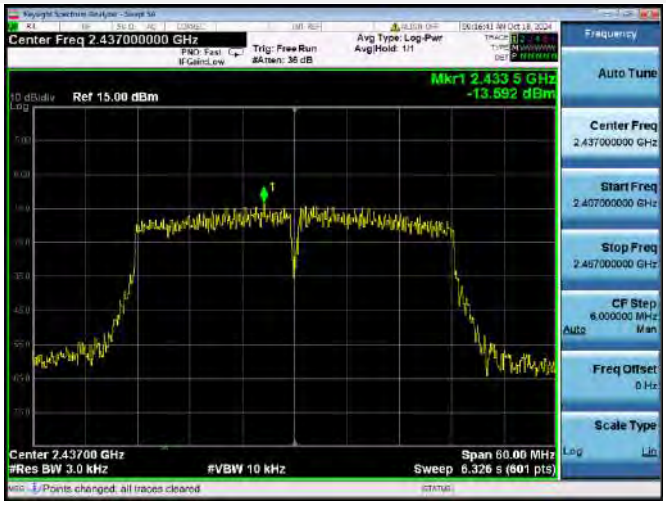
802.11 n-20 MHz MIDDLE CHANNEL

802.11n-20 MHz HIGH CHANNEL




802.11n-40 MHz LOW CHANNEL

802.11n-40 MHz MIDDLE CHANNEL




802.11n-40 MHz HIGH CHANNEL

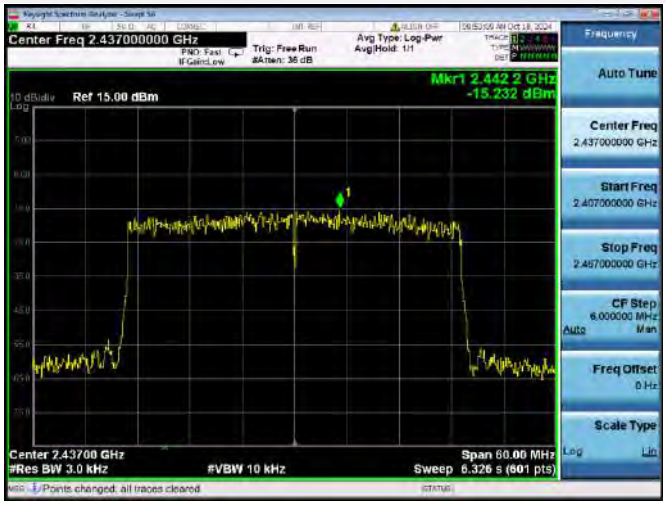
802.11ax-20 MHz(SU) LOW CHANNEL

802.11ax-20 MHz(SU) MIDDLE CHANNEL

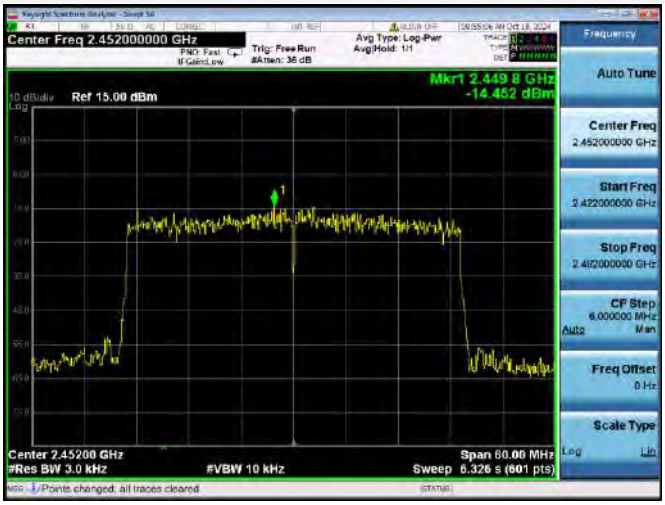
802.11ax-20 MHz(SU) HIGH CHANNEL

802.11ax-40 MHz(SU) LOW CHANNEL

802.11ax-40 MHz(SU) MIDDLE CHANNEL




802.11ax-40 MHz(SU) HIGH CHANNEL



# ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2490677-AR-1.PDF”.

# ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2490677-AW.PDF”.

# ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2490677-AI.PDF”.

# Statement

1. The Testing Center 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. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.

3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.

4. The test data and results are only valid for the tested samples provided by the customer.

5. This report shall not be partially reproduced without the written permission of the Testing Center.

6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--