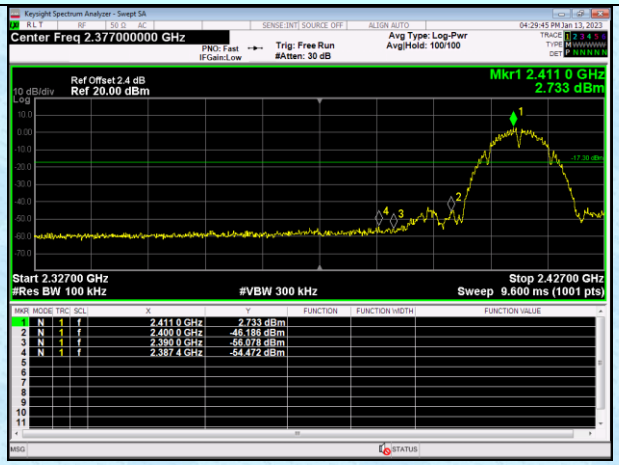
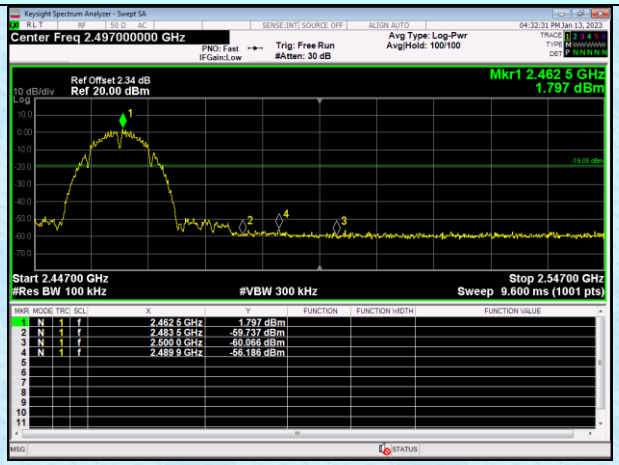
**Test plot as follows (ANT A):**

| Test mode: | 802.11b |
|---|---|

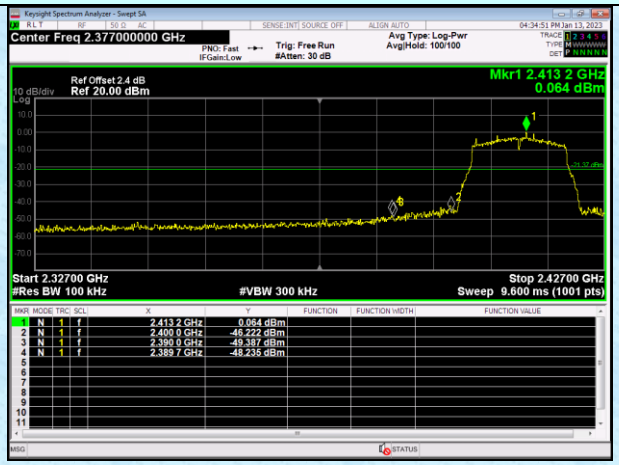



Lowest channel

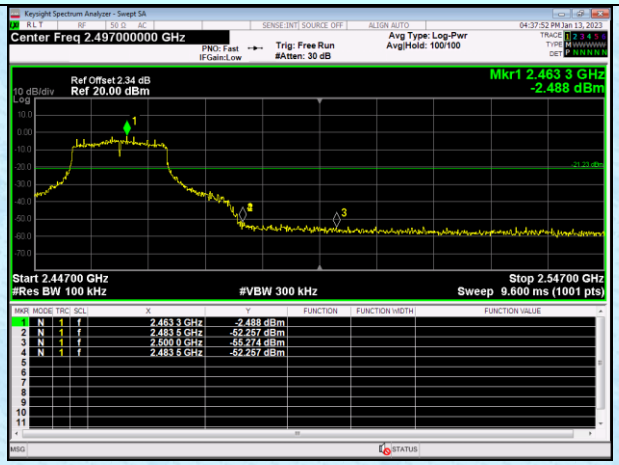



Highest channel

| Test mode: | 802.11g |
|---|---|

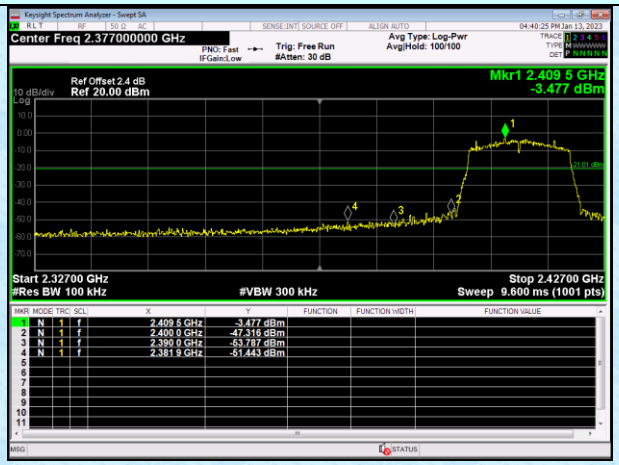



Lowest channel

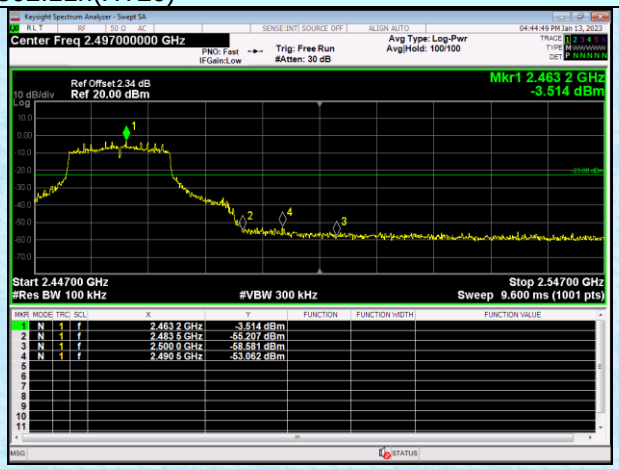



Highest channel

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

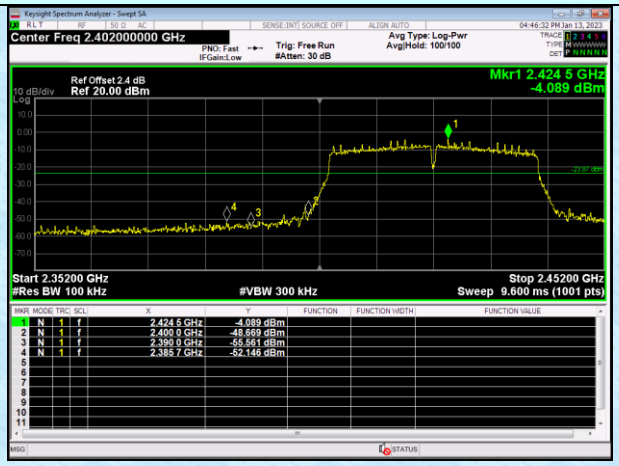



Lowest channel

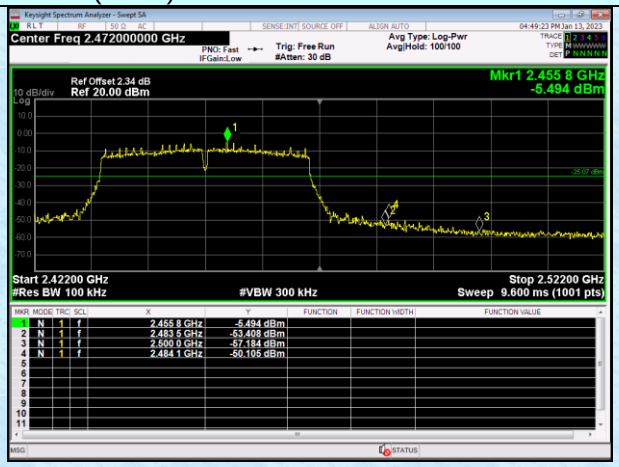



Highest channel

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

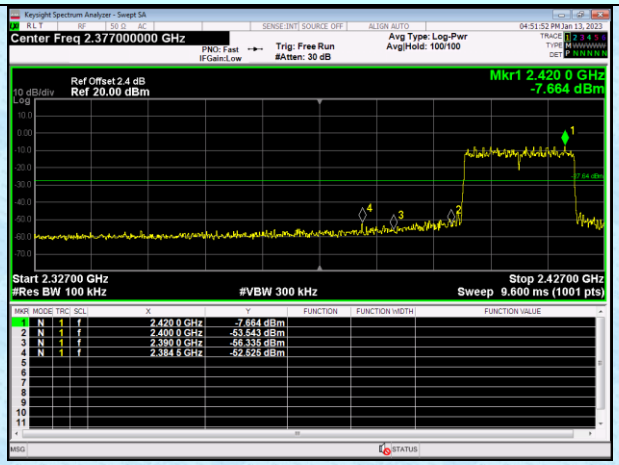



Lowest channel

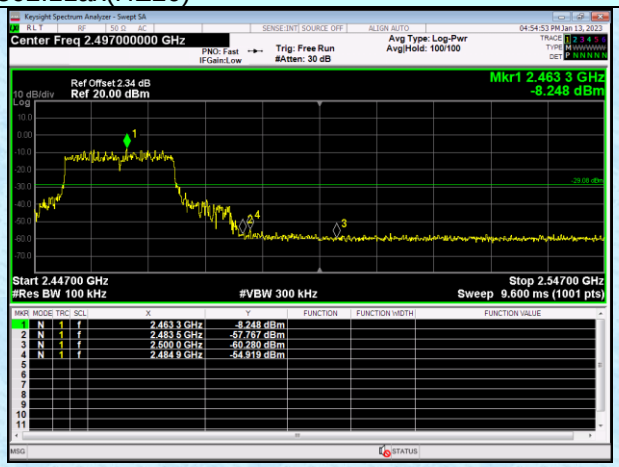



Highest channel

| Test mode: | 802.11ax(HE20) |
|---|---|

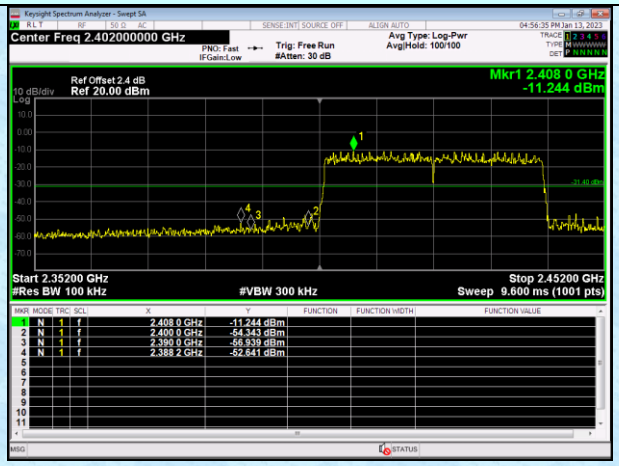



Lowest channel

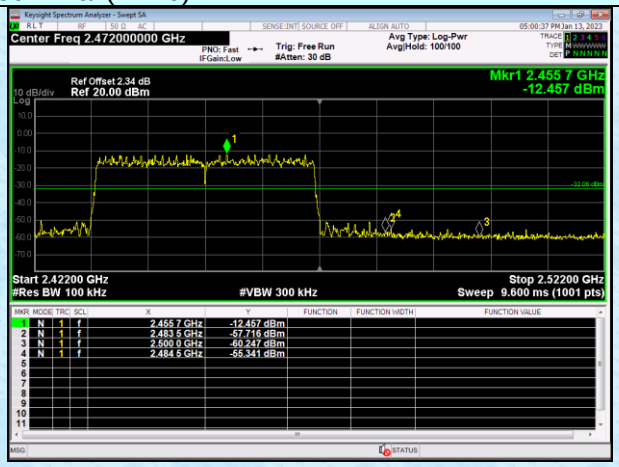



Highest channel

| Test mode: | 802.11ax(HE40) |
|---|---|



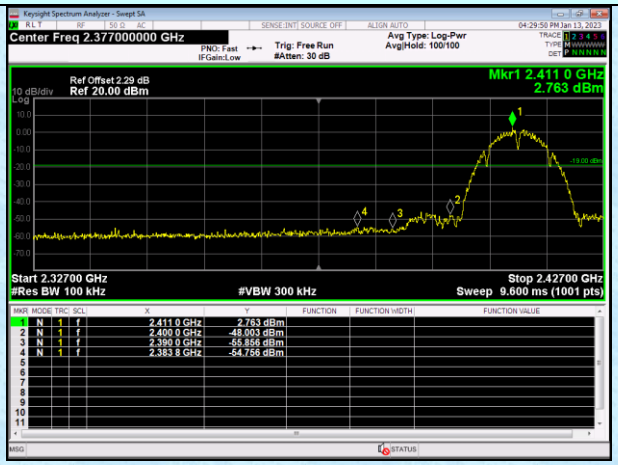

Lowest channel



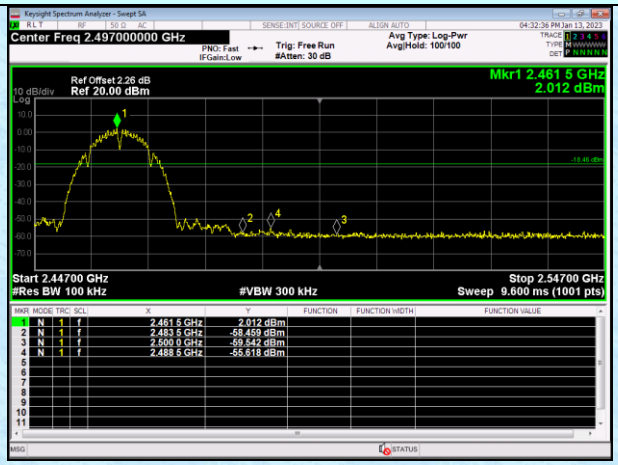

Highest channel

**Test plot as follows (ANT B):**

| Test mode: | 802.11b |
|---|---|

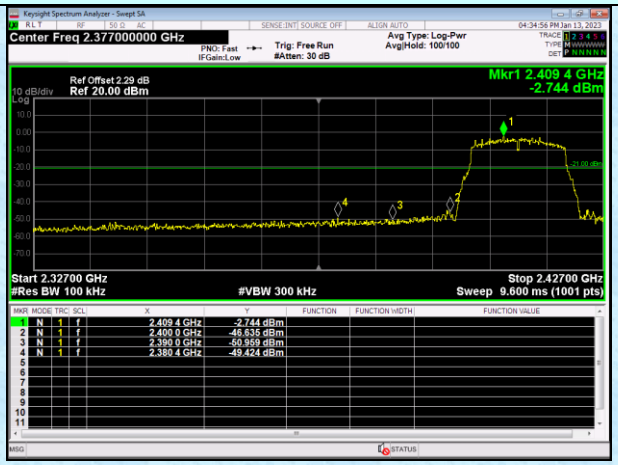



Lowest channel

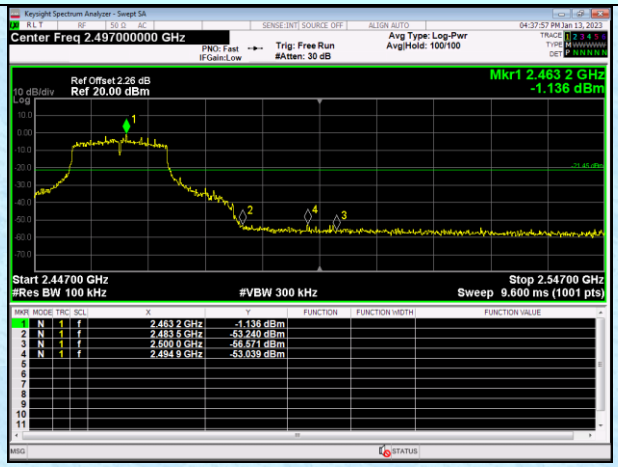



Highest channel

| Test mode: | 802.11g |
|---|---|

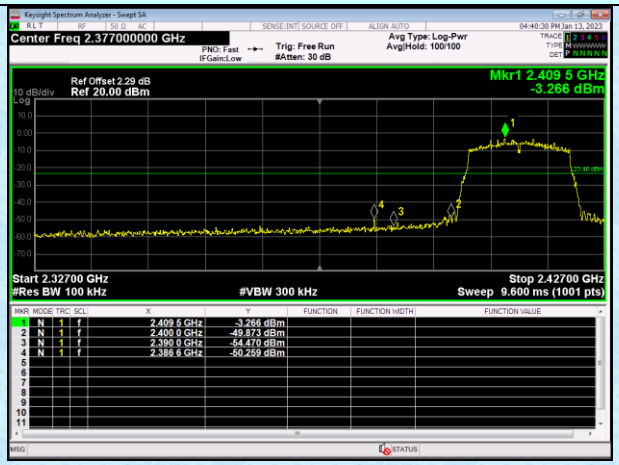



Lowest channel

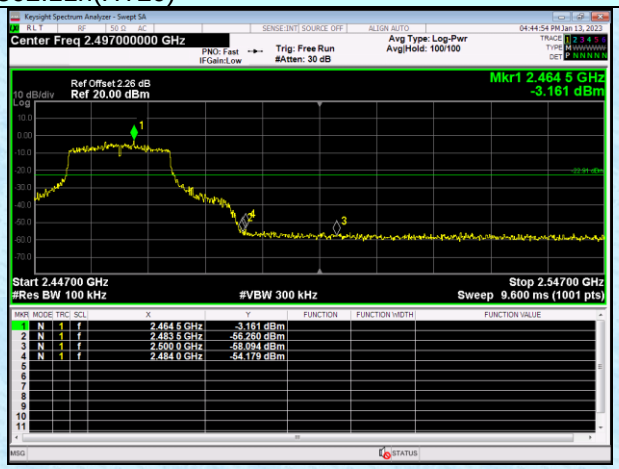



Highest channel

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

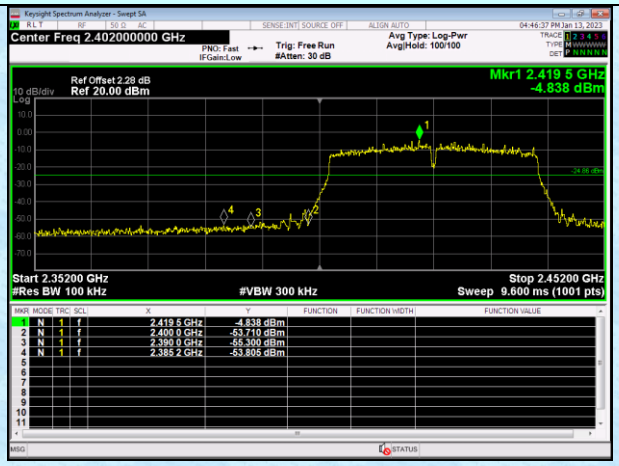



Lowest channel

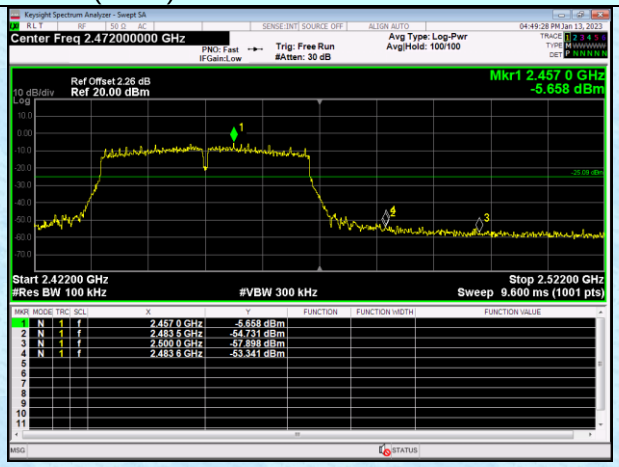



Highest channel

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

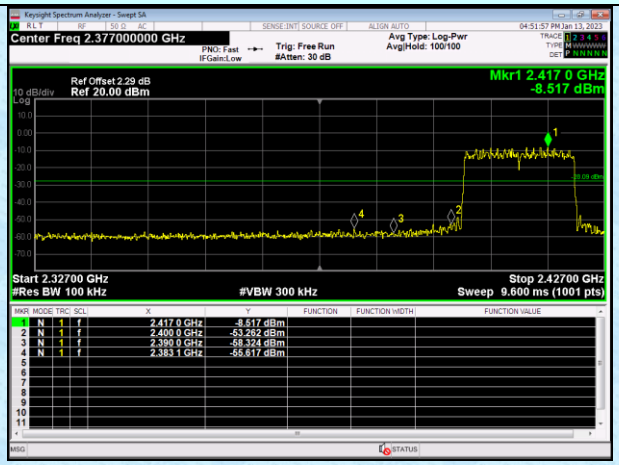



Lowest channel

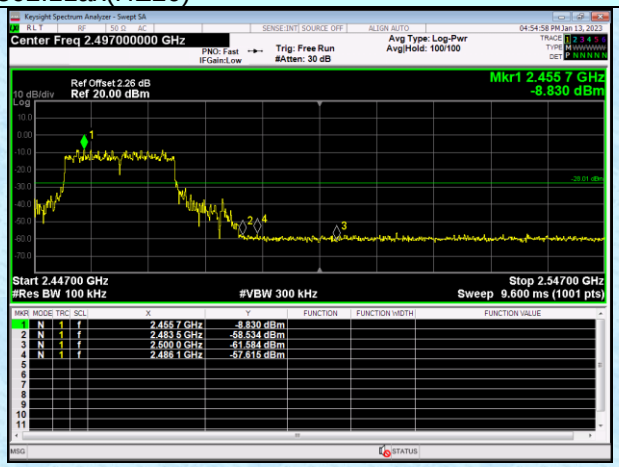



Highest channel

| Test mode: | 802.11ax(HE20) |
|---|---|

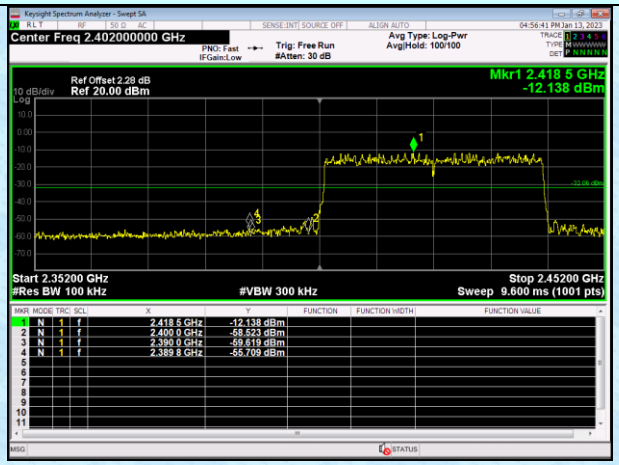



Lowest channel

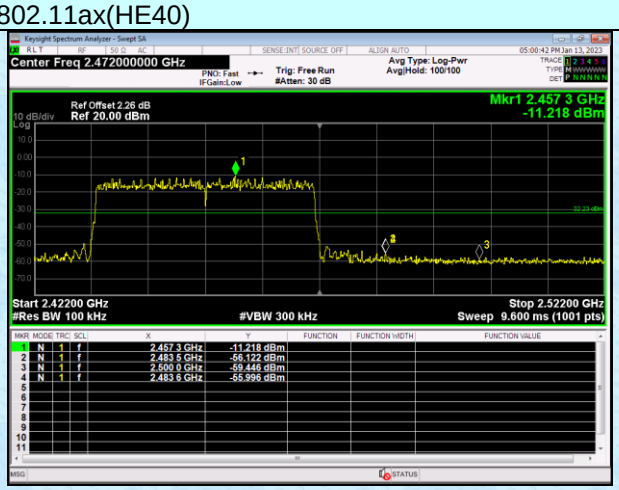



Highest channel

| Test mode: | 802.11ax(HE40) |
|---|---|

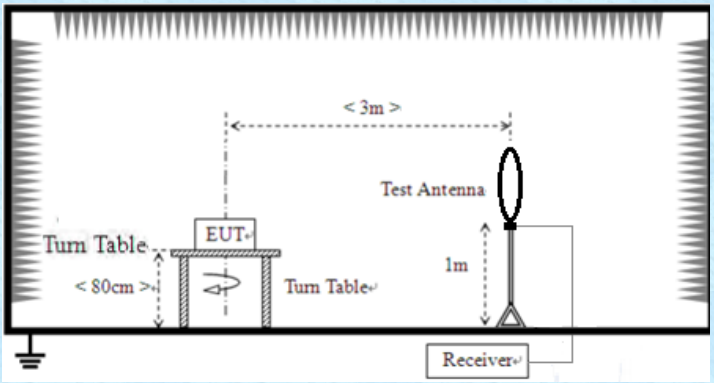


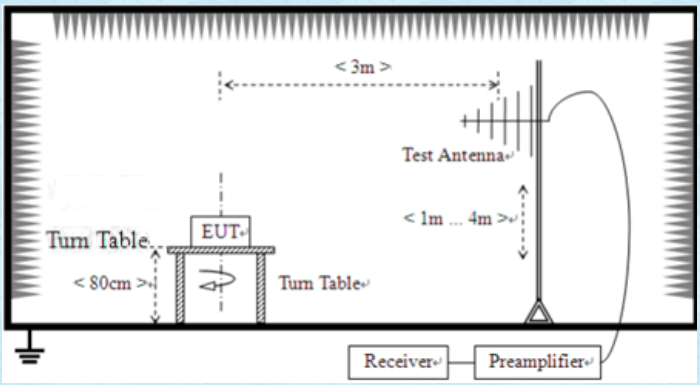
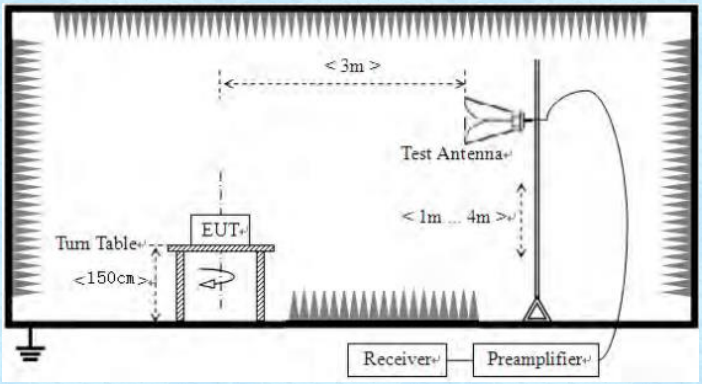

Lowest channel




Highest channel

### 7.5.2 Radiated Emission Method

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test Frequency Range:</td><td>9kHz to 26.5GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Value</th></tr>
<tr><td>9kHz-150kHz</td><td>Quasi-peak</td><td>200Hz</td><td>600Hz</td><td>Quasi-peak</td></tr>
<tr><td>150kHz-30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (uV/m)</th><th>Value</th><th>Measurement Distance</th></tr>
<tr><td>0.009MHz-0.490MHz</td><td>2400/F(kHz)</td><td>QP</td><td>300m</td></tr>
<tr><td>0.490MHz-1.705MHz</td><td>24000/F(kHz)</td><td>QP</td><td>30m</td></tr>
<tr><td>1.705MHz-30MHz</td><td>30</td><td>QP</td><td>30m</td></tr>
<tr><td>30MHz-88MHz</td><td>100</td><td>QP</td><td rowspan="6">3m</td></tr>
<tr><td>88MHz-216MHz</td><td>150</td><td>QP</td></tr>
<tr><td>216MHz-960MHz</td><td>200</td><td>QP</td></tr>
<tr><td>960MHz-1GHz</td><td>500</td><td>QP</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>500</td><td>Average</td></tr>
<tr><td>5000</td><td>Peak</td></tr>
</table>
</td></tr>
<tr><td>Test setup:</td><td>For radiated emissions from 9kHz to 30MHz<br> 
</td></tr>
</table>

| | |
|---|---|
| | For radiated emissions from 30MHz to1GHz<br>  <br><br>For radiated emissions above 1GHz<br>  <br> |
| Test Procedure: | 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.<br>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.<br>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.<br>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |
| Test Instruments: | Refer to section 6.0 for details |

| | | | | | | |
|---|---|---|---|---|---|---|
| Test mode: | Refer to section 5.2 for details | | | | | |
| Test environment: | Temp.: | 26 °C | Humid.: | 53% | Press.: | 1010mbar |
| Test voltage: | DC 5V | | | | | |
| Test results: | Pass | | | | | |

*Remarks:*

1. *We tested all the modes and only recorded the worst case (Beamforming) in the report.*
2. *Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*
3. *Both high and low voltages have been tested to show only the worst low voltage test data.*

**Measurement data:**

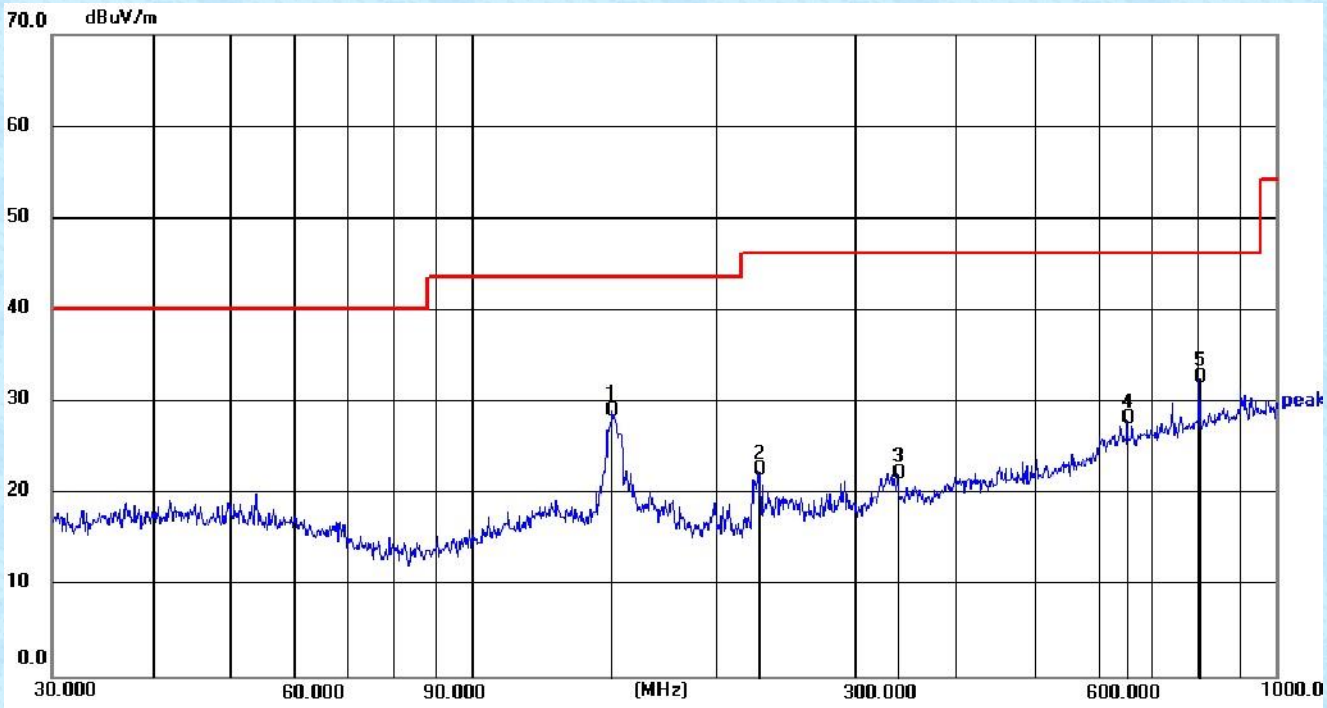
■ 9kHz~30MHz

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

**Below 1GHz**

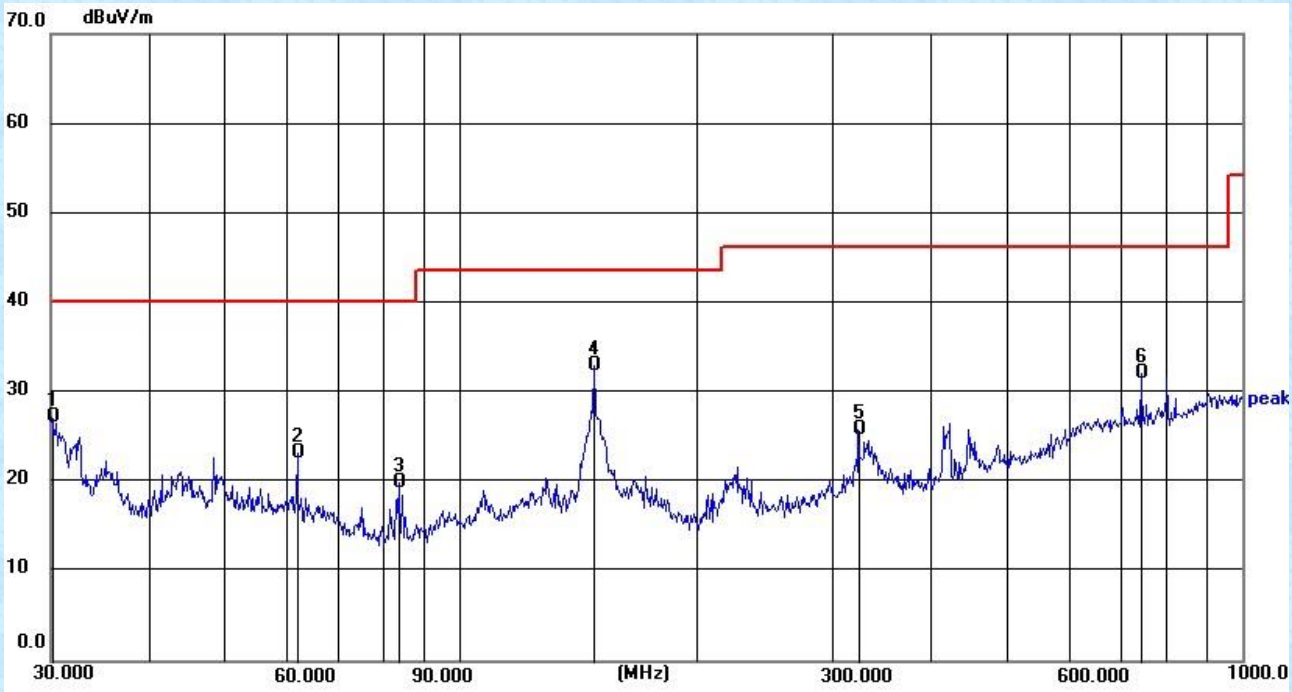
Pre-scan all test modes, found worst case at 802.11b 2412MHz, and so only show the test result of 802.11b 2412MHz.

Horizontal:




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 149.4857 | 13.08 | 15.89 | 28.97 | 43.50 | 14.53 | QP |
| 2 | 226.8936 | 9.75 | 12.82 | 22.57 | 46.00 | 23.43 | QP |
| 3 | 338.4001 | 6.61 | 15.63 | 22.24 | 46.00 | 23.76 | QP |
| 4 | 651.9417 | 6.41 | 21.64 | 28.05 | 46.00 | 17.95 | QP |
| 5 | 801.7863 | 9.66 | 23.06 | 32.72 | 46.00 | 13.28 | QP |

**Vertical:**




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 30.1054 | 14.33 | 12.87 | 27.20 | 40.00 | 12.80 | QP |
| 2 | 61.9951 | 9.71 | 13.55 | 23.26 | 40.00 | 16.74 | QP |
| 3 | 83.5222 | 9.11 | 10.88 | 19.99 | 40.00 | 20.01 | QP |
| 4 | 148.4410 | 17.33 | 15.66 | 32.99 | 43.50 | 10.51 | QP |
| 5 | 323.3204 | 10.49 | 15.36 | 25.85 | 46.00 | 20.15 | QP |
| 6 | 742.2587 | 9.70 | 22.47 | 32.17 | 46.00 | 13.83 | QP |

*Remark:*

*1. Level=Reading Level+Factor*

*1 Factor = Antenna Factor + Cable Loss – Preamplifier Factor*

*2 The emission levels of other frequencies are very lower than the limit and not show in test report.*

# Unwanted Emissions in non-restricted Frequency Bands

■ **Above 1GHz**

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4824 | 45.39 | 31.79 | 8.62 | 32.1 | 53.7 | 74 | -20.3 | Vertical |
| 7236 | 37.21 | 36.19 | 11.68 | 31.97 | 53.11 | 74 | -20.89 | Vertical |
| 4824 | 42.21 | 31.79 | 8.62 | 32.1 | 50.52 | 74 | -23.48 | Horizontal |
| 7236 | 32.34 | 36.19 | 11.68 | 31.97 | 48.24 | 74 | -25.76 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4874 | 45.27 | 31.85 | 8.66 | 32.12 | 53.66 | 74 | -20.34 | Vertical |
| 7311 | 36.03 | 36.37 | 11.71 | 31.91 | 52.2 | 74 | -21.8 | Vertical |
| 4874 | 41.2 | 31.85 | 8.66 | 32.12 | 49.59 | 74 | -24.41 | Horizontal |
| 7311 | 31.53 | 36.37 | 11.71 | 31.91 | 47.7 | 74 | -26.3 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4924 | 44.75 | 31.9 | 8.7 | 32.15 | 53.2 | 74 | -20.8 | Vertical |
| 7386 | 35.65 | 36.49 | 11.76 | 31.83 | 52.07 | 74 | -21.93 | Vertical |
| 4924 | 40.83 | 31.9 | 8.7 | 32.15 | 49.28 | 74 | -24.72 | Horizontal |
| 7386 | 30.66 | 36.49 | 11.76 | 31.83 | 47.08 | 74 | -26.92 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4824 | 44.31 | 31.79 | 8.62 | 32.1 | 52.62 | 74 | -21.38 | Vertical |
| 7236 | 35.73 | 36.19 | 11.68 | 31.97 | 51.63 | 74 | -22.37 | Vertical |
| 4824 | 40.6 | 31.79 | 8.62 | 32.1 | 48.91 | 74 | -25.09 | Horizontal |
| 7236 | 30.31 | 36.19 | 11.68 | 31.97 | 46.21 | 74 | -27.79 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4874 | 44.54 | 31.85 | 8.66 | 32.12 | 52.93 | 74 | -21.07 | Vertical |
| 7311 | 36.27 | 36.37 | 11.71 | 31.91 | 52.44 | 74 | -21.56 | Vertical |
| 4874 | 41.68 | 31.85 | 8.66 | 32.12 | 50.07 | 74 | -23.93 | Horizontal |
| 7311 | 31.86 | 36.37 | 11.71 | 31.91 | 48.03 | 74 | -25.97 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4924 | 43.65 | 31.9 | 8.7 | 32.15 | 52.1 | 74 | -21.9 | Vertical |
| 7386 | 35.56 | 36.49 | 11.76 | 31.83 | 51.98 | 74 | -22.02 | Vertical |
| 4924 | 41.62 | 31.9 | 8.7 | 32.15 | 50.07 | 74 | -23.93 | Horizontal |
| 7386 | 31.13 | 36.49 | 11.76 | 31.83 | 47.55 | 74 | -26.45 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4824 | 44.8 | 31.79 | 8.62 | 32.1 | 53.11 | 74 | -20.89 | Vertical |
| 7236 | 37.09 | 36.19 | 11.68 | 31.97 | 52.99 | 74 | -21.01 | Vertical |
| 4824 | 41.41 | 31.79 | 8.62 | 32.1 | 49.72 | 74 | -24.28 | Horizontal |
| 7236 | 32.29 | 36.19 | 11.68 | 31.97 | 48.19 | 74 | -25.81 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4874 | 44.56 | 31.85 | 8.66 | 32.12 | 52.95 | 74 | -21.05 | Vertical |
| 7311 | 36.11 | 36.37 | 11.71 | 31.91 | 52.28 | 74 | -21.72 | Vertical |
| 4874 | 40.38 | 31.85 | 8.66 | 32.12 | 48.77 | 74 | -25.23 | Horizontal |
| 7311 | 31.3 | 36.37 | 11.71 | 31.91 | 47.47 | 74 | -26.53 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4924 | 44.12 | 31.9 | 8.7 | 32.15 | 52.57 | 74 | -21.43 | Vertical |
| 7386 | 36.57 | 36.49 | 11.76 | 31.83 | 52.99 | 74 | -21.01 | Vertical |
| 4924 | 40.71 | 31.9 | 8.7 | 32.15 | 49.16 | 74 | -24.84 | Horizontal |
| 7386 | 31.26 | 36.49 | 11.76 | 31.83 | 47.68 | 74 | -26.32 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4844 | 44.05 | 31.81 | 8.63 | 32.11 | 52.38 | 74 | -21.62 | Vertical |
| 7266 | 35.98 | 36.28 | 11.69 | 31.94 | 52.01 | 74 | -21.99 | Vertical |
| 4844 | 40.65 | 31.81 | 8.63 | 32.11 | 48.98 | 74 | -25.02 | Horizontal |
| 7266 | 31.25 | 36.28 | 11.69 | 31.94 | 47.28 | 74 | -26.72 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4874 | 44.34 | 31.85 | 8.66 | 32.12 | 52.73 | 74 | -21.27 | Vertical |
| 7311 | 35.53 | 36.37 | 11.71 | 31.91 | 51.7 | 74 | -22.3 | Vertical |
| 4874 | 39.75 | 31.85 | 8.66 | 32.12 | 48.14 | 74 | -25.86 | Horizontal |
| 7311 | 30.57 | 36.37 | 11.71 | 31.91 | 46.74 | 74 | -27.26 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4904 | 43.4 | 31.88 | 8.68 | 32.13 | 51.83 | 74 | -22.17 | Vertical |
| 7356 | 36.48 | 36.45 | 11.75 | 31.86 | 52.82 | 74 | -21.18 | Vertical |
| 4904 | 40.18 | 31.88 | 8.68 | 32.13 | 48.61 | 74 | -25.39 | Horizontal |
| 7356 | 30.39 | 36.45 | 11.75 | 31.86 | 46.73 | 74 | -27.27 | Horizontal |

| Test mode: | 802.11ax(HE20) | Test channel: | Lowest |
|---|---|---|---|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4824 | 44.03 | 31.79 | 8.62 | 32.1 | 52.34 | 74 | -21.66 | Vertical |
| 7236 | 36.25 | 36.19 | 11.68 | 31.97 | 52.15 | 74 | -21.85 | Vertical |
| 4824 | 41.18 | 31.79 | 8.62 | 32.1 | 49.49 | 74 | -24.51 | Horizontal |
| 7236 | 31.3 | 36.19 | 11.68 | 31.97 | 47.2 | 74 | -26.8 | Horizontal |

| Test mode: | 802.11ax(HE20) | Test channel: | Middle |
|---|---|---|---|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4874 | 44 | 31.85 | 8.66 | 32.12 | 52.39 | 74 | -21.61 | Vertical |
| 7311 | 35.13 | 36.37 | 11.71 | 31.91 | 51.3 | 74 | -22.7 | Vertical |
| 4874 | 39.69 | 31.85 | 8.66 | 32.12 | 48.08 | 74 | -25.92 | Horizontal |
| 7311 | 31.08 | 36.37 | 11.71 | 31.91 | 47.25 | 74 | -26.75 | Horizontal |

| Test mode: | 802.11ax(HE20) | Test channel: | Highest |
|---|---|---|---|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4924 | 43.5 | 31.9 | 8.7 | 32.15 | 51.95 | 74 | -22.05 | Vertical |
| 7386 | 36.25 | 36.49 | 11.76 | 31.83 | 52.67 | 74 | -21.33 | Vertical |
| 4924 | 40.01 | 31.9 | 8.7 | 32.15 | 48.46 | 74 | -25.54 | Horizontal |
| 7386 | 30.97 | 36.49 | 11.76 | 31.83 | 47.39 | 74 | -26.61 | Horizontal |

| Test mode: | 802.11ax(HE40) | Test channel: | Lowest |
|---|---|---|---|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4844 | 43.35 | 31.81 | 8.63 | 32.11 | 51.68 | 74 | -22.32 | Vertical |
| 7266 | 35.57 | 36.28 | 11.69 | 31.94 | 51.6 | 74 | -22.4 | Vertical |
| 4844 | 39.68 | 31.81 | 8.63 | 32.11 | 48.01 | 74 | -25.99 | Horizontal |
| 7266 | 30.4 | 36.28 | 11.69 | 31.94 | 46.43 | 74 | -27.57 | Horizontal |

| Test mode: | 802.11ax(HE40) | Test channel: | Middle |
|---|---|---|---|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4874 | 44.3 | 31.85 | 8.66 | 32.12 | 52.69 | 74 | -21.31 | Vertical |
| 7311 | 35.39 | 36.37 | 11.71 | 31.91 | 51.56 | 74 | -22.44 | Vertical |
| 4874 | 38.94 | 31.85 | 8.66 | 32.12 | 47.33 | 74 | -26.67 | Horizontal |
| 7311 | 30.11 | 36.37 | 11.71 | 31.91 | 46.28 | 74 | -27.72 | Horizontal |

| Test mode: | 802.11ax(HE40) | Test channel: | Highest |
|---|---|---|---|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 4904 | 43.21 | 31.88 | 8.68 | 32.13 | 51.64 | 74 | -22.36 | Vertical |
| 7356 | 36.47 | 36.45 | 11.75 | 31.86 | 52.81 | 74 | -21.19 | Vertical |
| 4904 | 39.53 | 31.88 | 8.68 | 32.13 | 47.96 | 74 | -26.04 | Horizontal |
| 7356 | 30.12 | 36.45 | 11.75 | 31.86 | 46.46 | 74 | -27.54 | Horizontal |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 54.12 | 27.14 | 6.19 | 42.04 | 45.41 | 74 | -28.59 | Horizontal |
| 2390 | 72.11 | 27.37 | 6.31 | 42.11 | 63.68 | 74 | -10.32 | Horizontal |
| 2310 | 51.87 | 27.14 | 6.19 | 42.04 | 43.16 | 74 | -30.84 | Vertical |
| 2390 | 69.86 | 27.37 | 6.31 | 42.11 | 61.43 | 74 | -12.57 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 35.89 | 27.14 | 6.19 | 42.04 | 27.18 | 54 | -26.82 | Horizontal |
| 2390 | 54.71 | 27.37 | 6.31 | 42.11 | 46.28 | 54 | -7.72 | Horizontal |
| 2310 | 35.72 | 27.14 | 6.19 | 42.04 | 27.01 | 54 | -26.99 | Vertical |
| 2390 | 50.95 | 27.37 | 6.31 | 42.11 | 42.52 | 54 | -11.48 | Vertical |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 69.57 | 27.66 | 6.45 | 42.01 | 61.67 | 74 | -12.33 | Horizontal |
| 2500 | 51.85 | 27.7 | 6.47 | 42 | 44.02 | 74 | -29.98 | Horizontal |
| 2483.5 | 68.78 | 27.66 | 6.45 | 42.01 | 60.88 | 74 | -13.12 | Vertical |
| 2500 | 52.73 | 27.7 | 6.47 | 42 | 44.9 | 74 | -29.1 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 56.97 | 27.66 | 6.45 | 42.01 | 49.07 | 54 | -4.93 | Horizontal |
| 2500 | 36.75 | 27.7 | 6.47 | 42 | 28.92 | 54 | -25.08 | Horizontal |
| 2483.5 | 53.63 | 27.66 | 6.45 | 42.01 | 45.73 | 54 | -8.27 | Vertical |
| 2500 | 36.81 | 27.7 | 6.47 | 42 | 28.98 | 54 | -25.02 | Vertical |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 50.57 | 27.14 | 6.19 | 42.04 | 41.86 | 74 | -32.14 | Horizontal |
| 2390 | 67.09 | 27.37 | 6.31 | 42.11 | 58.66 | 74 | -15.34 | Horizontal |
| 2310 | 50.25 | 27.14 | 6.19 | 42.04 | 41.54 | 74 | -32.46 | Vertical |
| 2390 | 63.79 | 27.37 | 6.31 | 42.11 | 55.36 | 74 | -18.64 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 35.06 | 27.14 | 6.19 | 42.04 | 26.35 | 54 | -27.65 | Horizontal |
| 2390 | 52.55 | 27.37 | 6.31 | 42.11 | 44.12 | 54 | -9.88 | Horizontal |
| 2310 | 34.41 | 27.14 | 6.19 | 42.04 | 25.7 | 54 | -28.3 | Vertical |
| 2390 | 50.17 | 27.37 | 6.31 | 42.11 | 41.74 | 54 | -12.26 | Vertical |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 70.47 | 27.66 | 6.45 | 42.01 | 62.57 | 74 | -11.43 | Horizontal |
| 2500 | 52.3 | 27.7 | 6.47 | 42 | 44.47 | 74 | -29.53 | Horizontal |
| 2483.5 | 66.69 | 27.66 | 6.45 | 42.01 | 58.79 | 74 | -15.21 | Vertical |
| 2500 | 50.77 | 27.7 | 6.47 | 42 | 42.94 | 74 | -31.06 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 53.75 | 27.66 | 6.45 | 42.01 | 45.85 | 54 | -8.15 | Horizontal |
| 2500 | 35.58 | 27.7 | 6.47 | 42 | 27.75 | 54 | -26.25 | Horizontal |
| 2483.5 | 51.7 | 27.66 | 6.45 | 42.01 | 43.8 | 54 | -10.2 | Vertical |
| 2500 | 34.43 | 27.7 | 6.47 | 42 | 26.6 | 54 | -27.4 | Vertical |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 50.33 | 27.14 | 6.19 | 42.04 | 41.62 | 74 | -32.38 | Horizontal |
| 2390 | 66.95 | 27.37 | 6.31 | 42.11 | 58.52 | 74 | -15.48 | Horizontal |
| 2310 | 50.41 | 27.14 | 6.19 | 42.04 | 41.7 | 74 | -32.3 | Vertical |
| 2390 | 63.73 | 27.37 | 6.31 | 42.11 | 55.3 | 74 | -18.7 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 34.73 | 27.14 | 6.19 | 42.04 | 26.02 | 54 | -27.98 | Horizontal |
| 2390 | 51.9 | 27.37 | 6.31 | 42.11 | 43.47 | 54 | -10.53 | Horizontal |
| 2310 | 33.77 | 27.14 | 6.19 | 42.04 | 25.06 | 54 | -28.94 | Vertical |
| 2390 | 50.37 | 27.37 | 6.31 | 42.11 | 41.94 | 54 | -12.06 | Vertical |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 79.97 | 27.66 | 6.45 | 52.01 | 62.07 | 74 | -11.93 | Horizontal |
| 2500 | 51.95 | 27.7 | 6.47 | 42 | 44.12 | 74 | -29.88 | Horizontal |
| 2483.5 | 66.53 | 27.66 | 6.45 | 42.01 | 58.63 | 74 | -15.37 | Vertical |
| 2500 | 51.08 | 27.7 | 6.47 | 42 | 43.25 | 74 | -30.75 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 53.36 | 27.66 | 6.45 | 42.01 | 45.46 | 54 | -8.54 | Horizontal |
| 2500 | 35.45 | 27.7 | 6.47 | 42 | 27.62 | 54 | -26.38 | Horizontal |
| 2483.5 | 52.05 | 27.66 | 6.45 | 42.01 | 44.15 | 54 | -9.85 | Vertical |
| 2500 | 34.43 | 27.7 | 6.47 | 42 | 26.6 | 54 | -27.4 | Vertical |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 50.92 | 27.14 | 6.19 | 42.04 | 42.21 | 74 | -31.79 | Horizontal |
| 2390 | 67.58 | 27.37 | 6.31 | 42.11 | 59.15 | 74 | -14.85 | Horizontal |
| 2310 | 51.39 | 27.14 | 6.19 | 42.04 | 42.68 | 74 | -31.32 | Vertical |
| 2390 | 63.93 | 27.37 | 6.31 | 42.11 | 55.5 | 74 | -18.5 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 34.68 | 27.14 | 6.19 | 42.04 | 25.97 | 54 | -28.03 | Horizontal |
| 2390 | 53.08 | 27.37 | 6.31 | 42.11 | 44.65 | 54 | -9.35 | Horizontal |
| 2310 | 34.92 | 27.14 | 6.19 | 42.04 | 26.21 | 54 | -27.79 | Vertical |
| 2390 | 50.49 | 27.37 | 6.31 | 42.11 | 42.06 | 54 | -11.94 | Vertical |

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

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 69.38 | 27.66 | 6.45 | 42.01 | 61.48 | 74 | -12.52 | Horizontal |
| 2500 | 52.62 | 27.7 | 6.47 | 42 | 44.79 | 74 | -29.21 | Horizontal |
| 2483.5 | 67.46 | 27.66 | 6.45 | 42.01 | 59.56 | 74 | -14.44 | Vertical |
| 2500 | 51.84 | 27.7 | 6.47 | 42 | 44.01 | 74 | -29.99 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 54.36 | 27.66 | 6.45 | 42.01 | 46.46 | 54 | -7.54 | Horizontal |
| 2500 | 36.62 | 27.7 | 6.47 | 42 | 28.79 | 54 | -25.21 | Horizontal |
| 2483.5 | 52.26 | 27.66 | 6.45 | 42.01 | 44.36 | 54 | -9.64 | Vertical |
| 2500 | 34.64 | 27.7 | 6.47 | 42 | 26.81 | 54 | -27.19 | Vertical |

| Test mode: | 802.11ax(HE20) | Test channel: | Lowest |
|---|---|---|---|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 49.08 | 27.14 | 6.19 | 42.04 | 40.37 | 74 | -33.63 | Horizontal |
| 2390 | 66.02 | 27.37 | 6.31 | 42.11 | 57.59 | 74 | -16.41 | Horizontal |
| 2310 | 50.75 | 27.14 | 6.19 | 42.04 | 42.04 | 74 | -31.96 | Vertical |
| 2390 | 63.4 | 27.37 | 6.31 | 42.11 | 54.97 | 74 | -19.03 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 34.11 | 27.14 | 6.19 | 42.04 | 25.4 | 54 | -28.6 | Horizontal |
| 2390 | 51.23 | 27.37 | 6.31 | 42.11 | 42.8 | 54 | -11.2 | Horizontal |
| 2310 | 33.87 | 27.14 | 6.19 | 42.04 | 25.16 | 54 | -28.84 | Vertical |
| 2390 | 48.74 | 27.37 | 6.31 | 42.11 | 40.31 | 54 | -13.69 | Vertical |

| Test mode: | 802.11ax(HE20) | Test channel: | Highest |
|---|---|---|---|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 78.98 | 27.66 | 6.45 | 52.01 | 61.08 | 74 | -12.92 | Horizontal |
| 2500 | 51.64 | 27.7 | 6.47 | 42 | 43.81 | 74 | -30.19 | Horizontal |
| 2483.5 | 66.73 | 27.66 | 6.45 | 42.01 | 58.83 | 74 | -15.17 | Vertical |
| 2500 | 50.64 | 27.7 | 6.47 | 42 | 42.81 | 74 | -31.19 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 52.92 | 27.66 | 6.45 | 42.01 | 45.02 | 54 | -8.98 | Horizontal |
| 2500 | 35.45 | 27.7 | 6.47 | 42 | 27.62 | 54 | -26.38 | Horizontal |
| 2483.5 | 52.05 | 27.66 | 6.45 | 42.01 | 44.15 | 54 | -9.85 | Vertical |
| 2500 | 32.67 | 27.7 | 6.47 | 42 | 24.84 | 54 | -29.16 | Vertical |

| Test mode: | 802.11ax(HE40) | Test channel: | Lowest |
|---|---|---|---|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 50.11 | 27.14 | 6.19 | 42.04 | 41.4 | 74 | -32.6 | Horizontal |
| 2390 | 67.43 | 27.37 | 6.31 | 42.11 | 59 | 74 | -15 | Horizontal |
| 2310 | 50.44 | 27.14 | 6.19 | 42.04 | 41.73 | 74 | -32.27 | Vertical |
| 2390 | 62.78 | 27.37 | 6.31 | 42.11 | 54.35 | 74 | -19.65 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2310 | 34.35 | 27.14 | 6.19 | 42.04 | 25.64 | 54 | -28.36 | Horizontal |
| 2390 | 51.43 | 27.37 | 6.31 | 42.11 | 43 | 54 | -11 | Horizontal |
| 2310 | 33.83 | 27.14 | 6.19 | 42.04 | 25.12 | 54 | -28.88 | Vertical |
| 2390 | 49.74 | 27.37 | 6.31 | 42.11 | 41.31 | 54 | -12.69 | Vertical |

| Test mode: | 802.11ax(HE40) | Test channel: | Highest |
|---|---|---|---|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 69.67 | 27.66 | 6.45 | 42.01 | 61.77 | 74 | -12.23 | Horizontal |
| 2500 | 51.29 | 27.7 | 6.47 | 42 | 43.46 | 74 | -30.54 | Horizontal |
| 2483.5 | 67.43 | 27.66 | 6.45 | 42.01 | 59.53 | 74 | -14.47 | Vertical |
| 2500 | 51.13 | 27.7 | 6.47 | 42 | 43.3 | 74 | -30.7 | Vertical |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.5 | 53.56 | 27.66 | 6.45 | 42.01 | 45.66 | 54 | -8.34 | Horizontal |
| 2500 | 35.88 | 27.7 | 6.47 | 42 | 28.05 | 54 | -25.95 | Horizontal |
| 2483.5 | 52.59 | 27.66 | 6.45 | 42.01 | 44.69 | 54 | -9.31 | Vertical |
| 2500 | 34.25 | 27.7 | 6.47 | 42 | 26.42 | 54 | -27.58 | Vertical |

*Remark.*

1. *Level =Reading Level+ Antenna factor + Cable Loss – Amplifier factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

# 8 Test Setup Photo

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

# 9 EUT Constructional Details

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

------End------