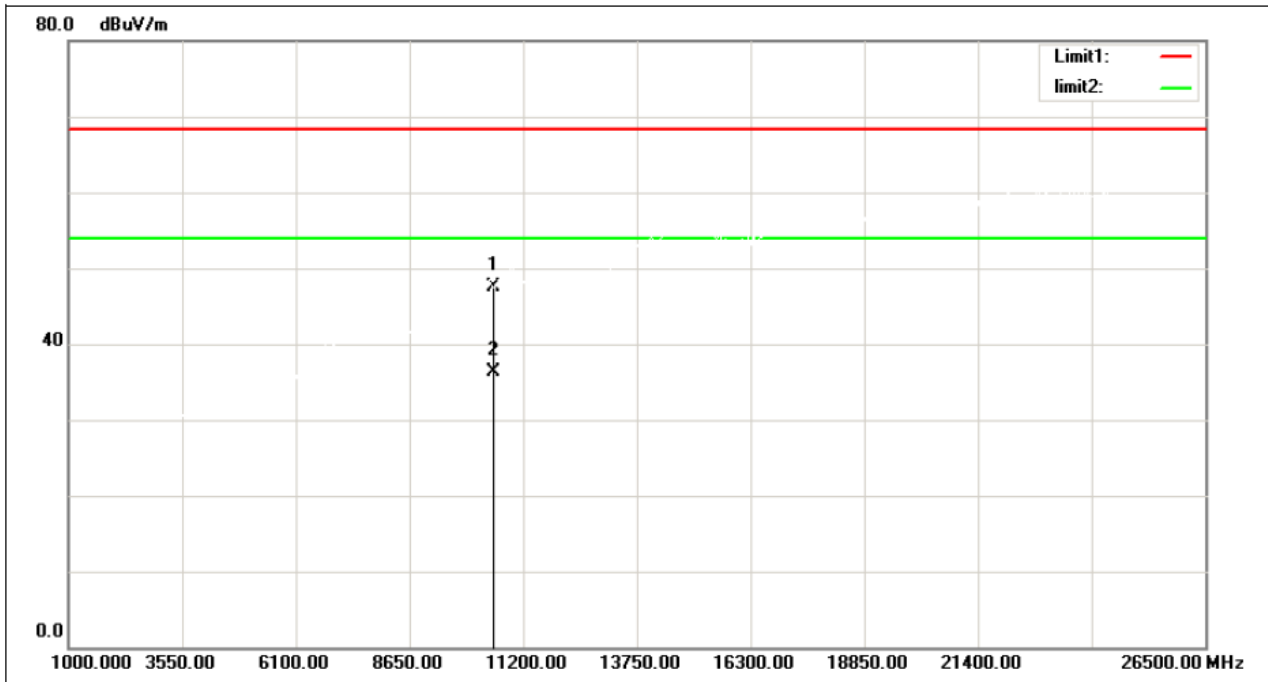


| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2A_TX AC (VHT40) Mode 5270 MHz |

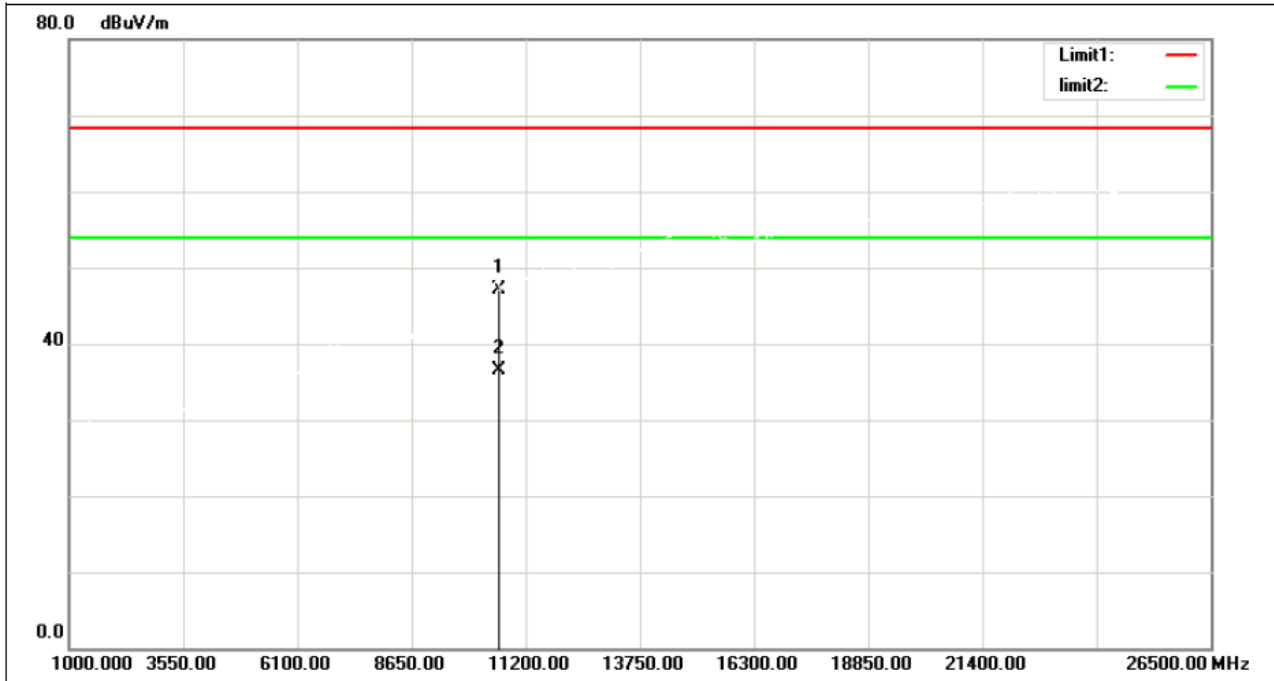
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 10540.000 | 40.73 | 6.80 | 47.53 | 68.30 | -20.77 | peak |
| 2 | 10540.000 | 29.49 | 6.80 | 36.29 | 54.00 | -17.71 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2A_TX AC (VHT40) Mode 5310 MHz |

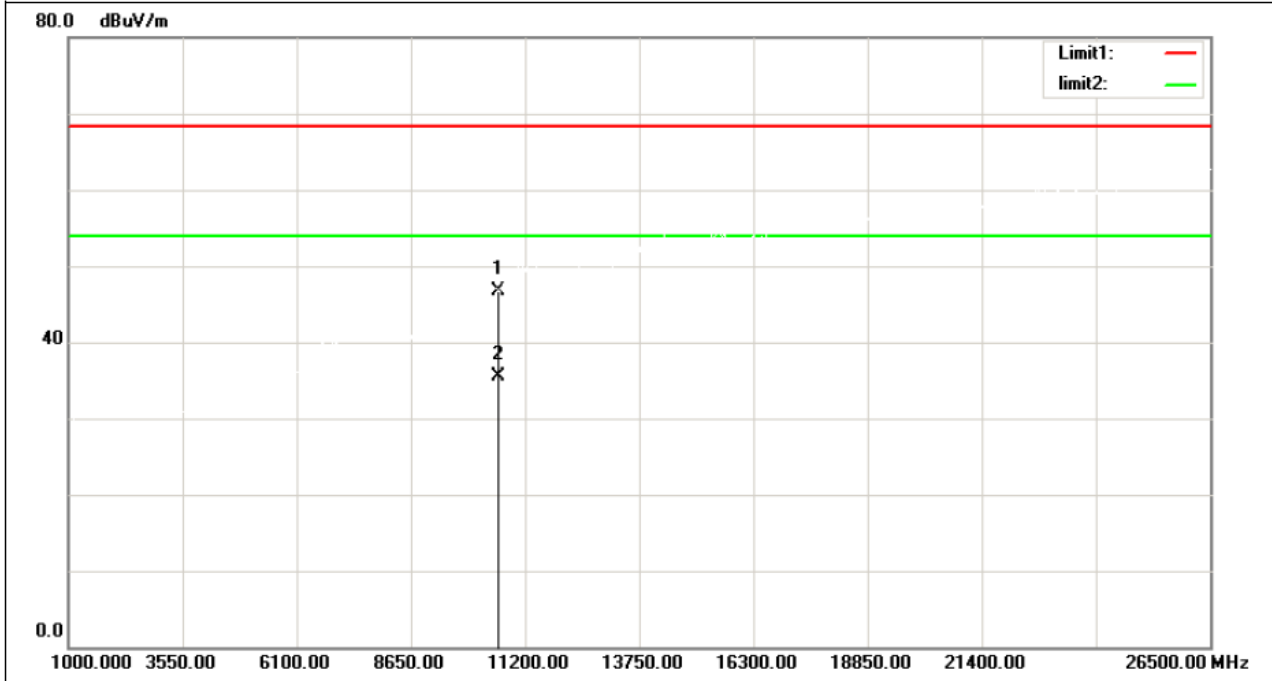
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|-----------------------|-----------------|----------------|-------------|--------|
| 1 | 10620.000 | 40.00 | 7.07 | 47.07 | 68.30 | -21.23 | peak |
| 2 | 10620.000 | 29.44 | 7.07 | 36.51 | 54.00 | -17.49 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2A_TX AC (VHT40) Mode 5310 MHz |

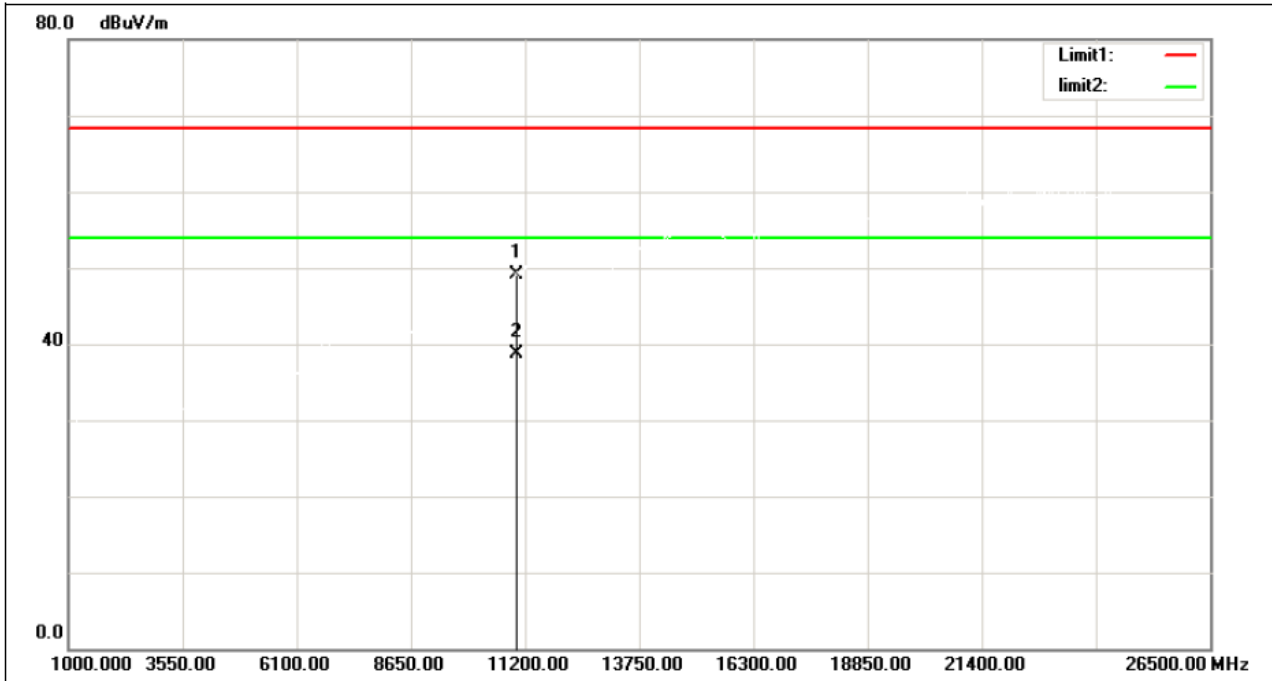
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 10620.000 | 39.71 | 7.07 | 46.78 | 68.30 | -21.52 | peak |
| 2 | 10620.000 | 28.49 | 7.07 | 35.56 | 54.00 | -18.44 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2C_TX AC (VHT40) Mode 5510 MHz |

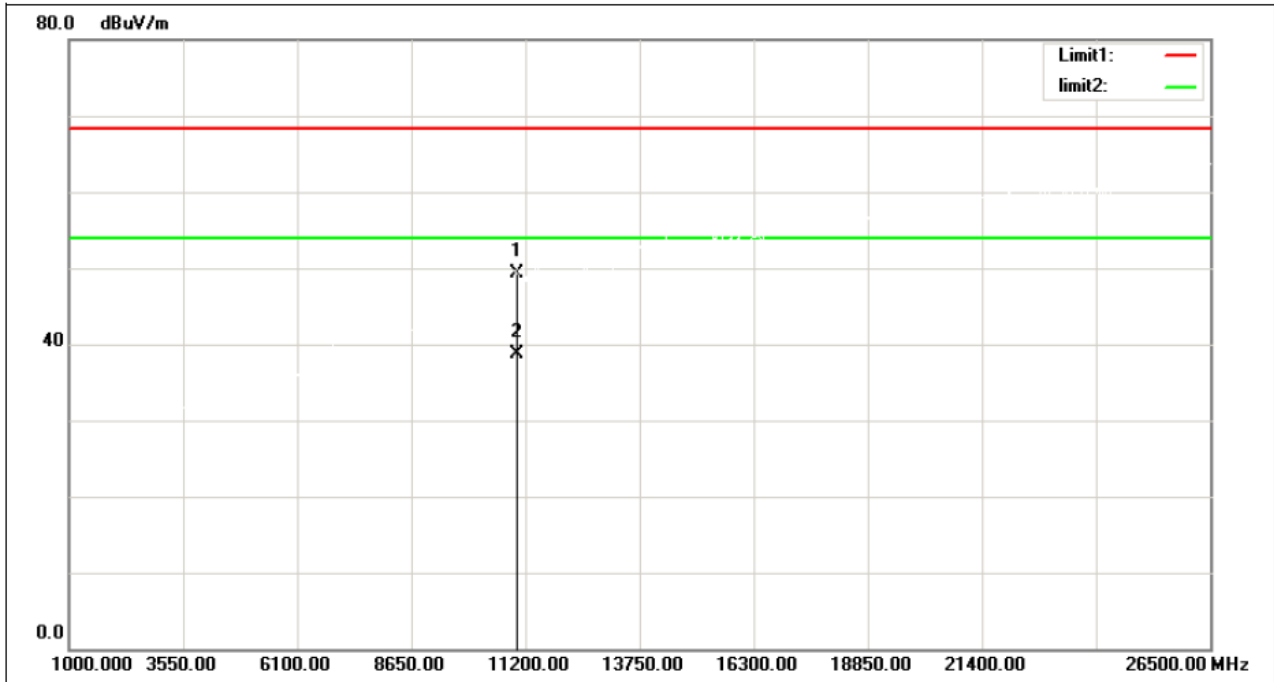
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11020.000 | 40.72 | 8.30 | 49.02 | 68.30 | -19.28 | peak |
| 2 | 11020.000 | 30.32 | 8.30 | 38.62 | 54.00 | -15.38 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2C_TX AC (VHT40) Mode 5510 MHz |

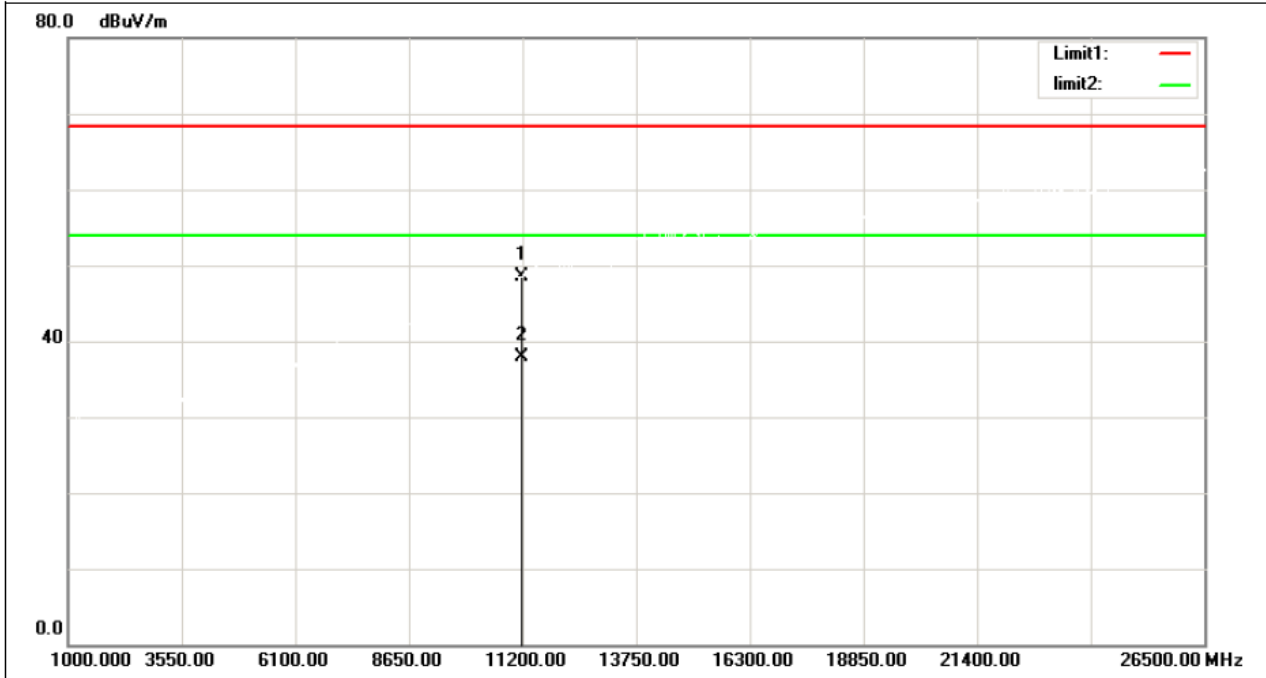
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11020.000 | 40.93 | 8.30 | 49.23 | 68.30 | -19.07 | peak |
| 2 | 11020.000 | 30.33 | 8.30 | 38.63 | 54.00 | -15.37 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2C_TX AC (VHT40) Mode 5590 MHz |

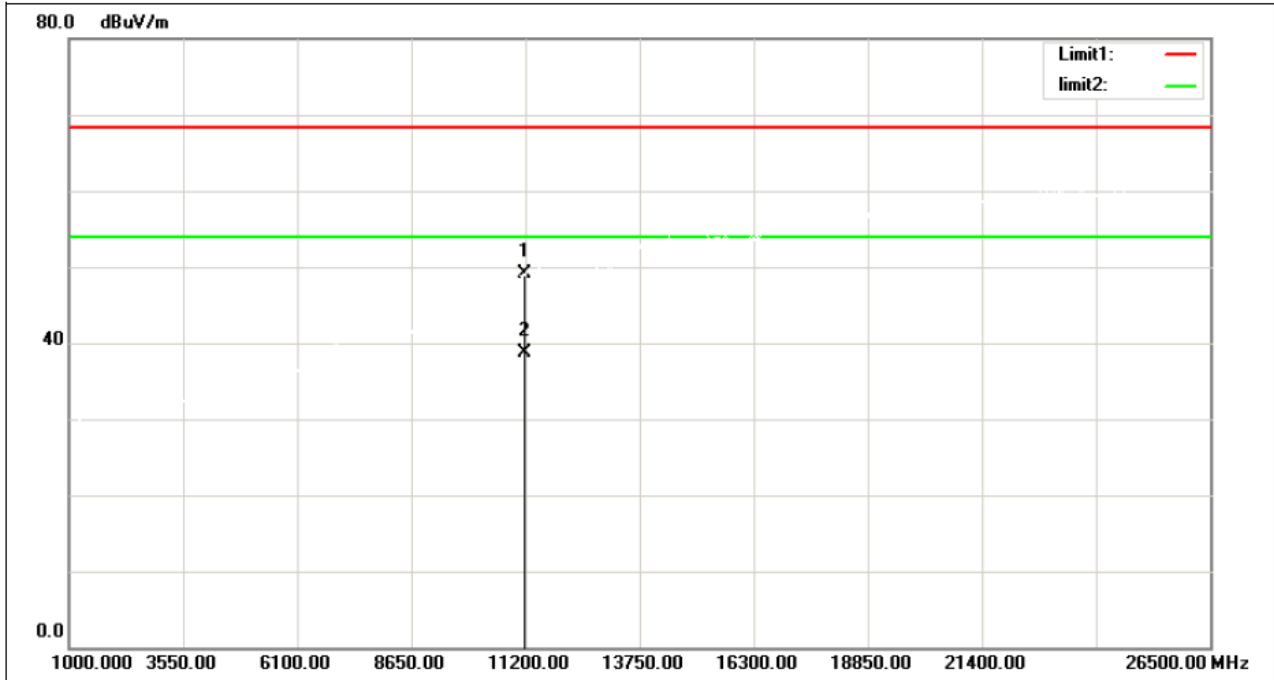
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11180.000 | 40.29 | 8.23 | 48.52 | 68.30 | -19.78 | peak |
| 2 | 11180.000 | 29.59 | 8.23 | 37.82 | 54.00 | -16.18 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2C_TX AC (VHT40) Mode 5590 MHz |

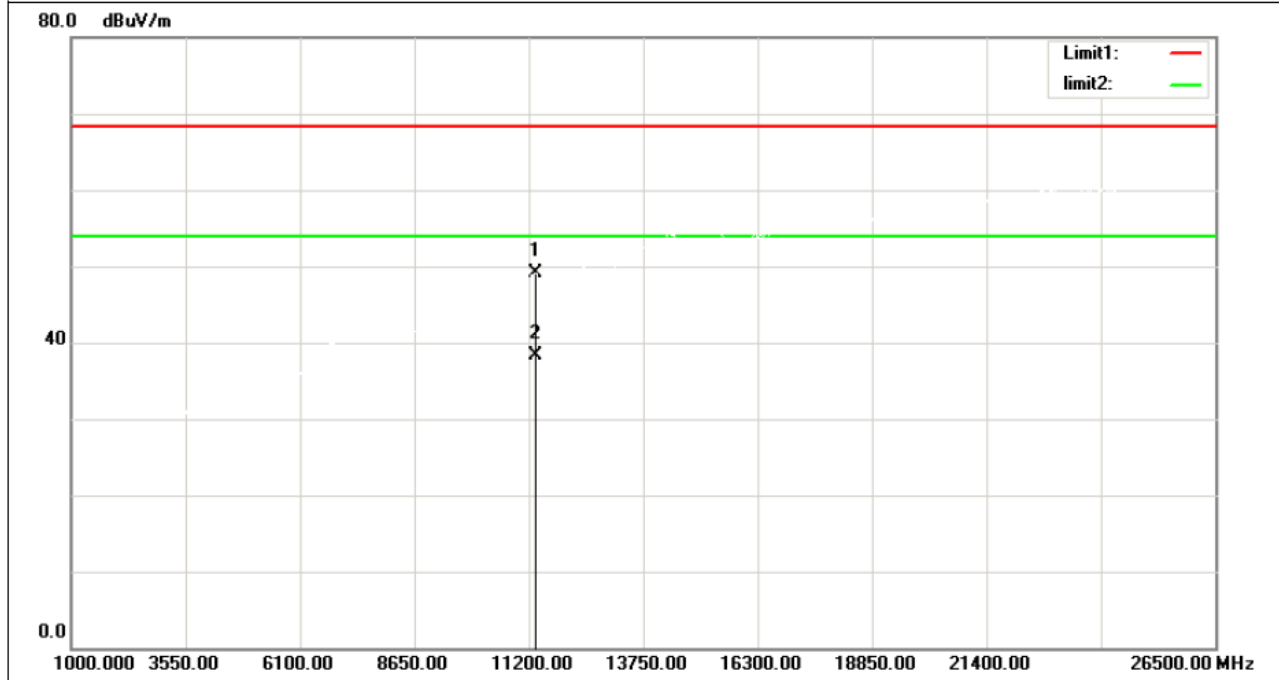
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11180.000 | 40.79 | 8.23 | 49.02 | 68.30 | -19.28 | peak |
| 2 | 11180.000 | 30.42 | 8.23 | 38.65 | 54.00 | -15.35 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2C_TX AC (VHT40) Mode 5670 MHz |

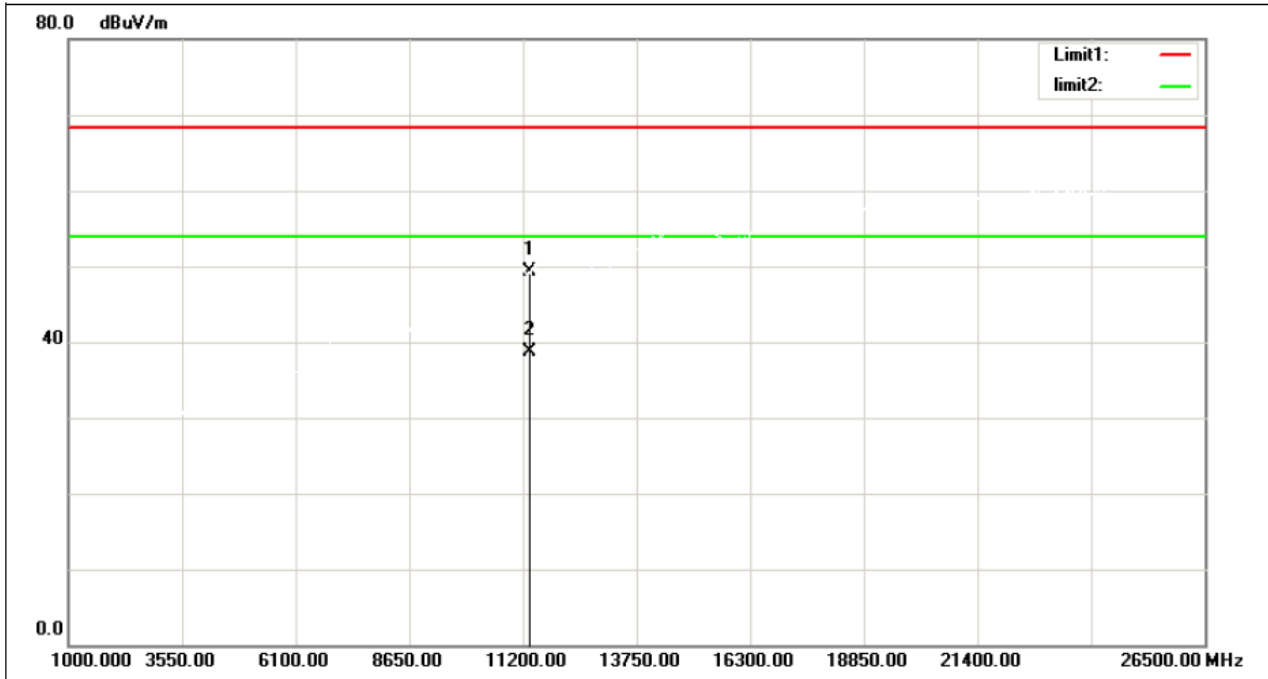
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 11340.000 | 40.97 | 8.14 | 49.11 | 68.30 | -19.19 | peak |
| 2 | 11340.000 | 30.12 | 8.14 | 38.26 | 54.00 | -15.74 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2C_TX AC (VHT40) Mode 5670 MHz |

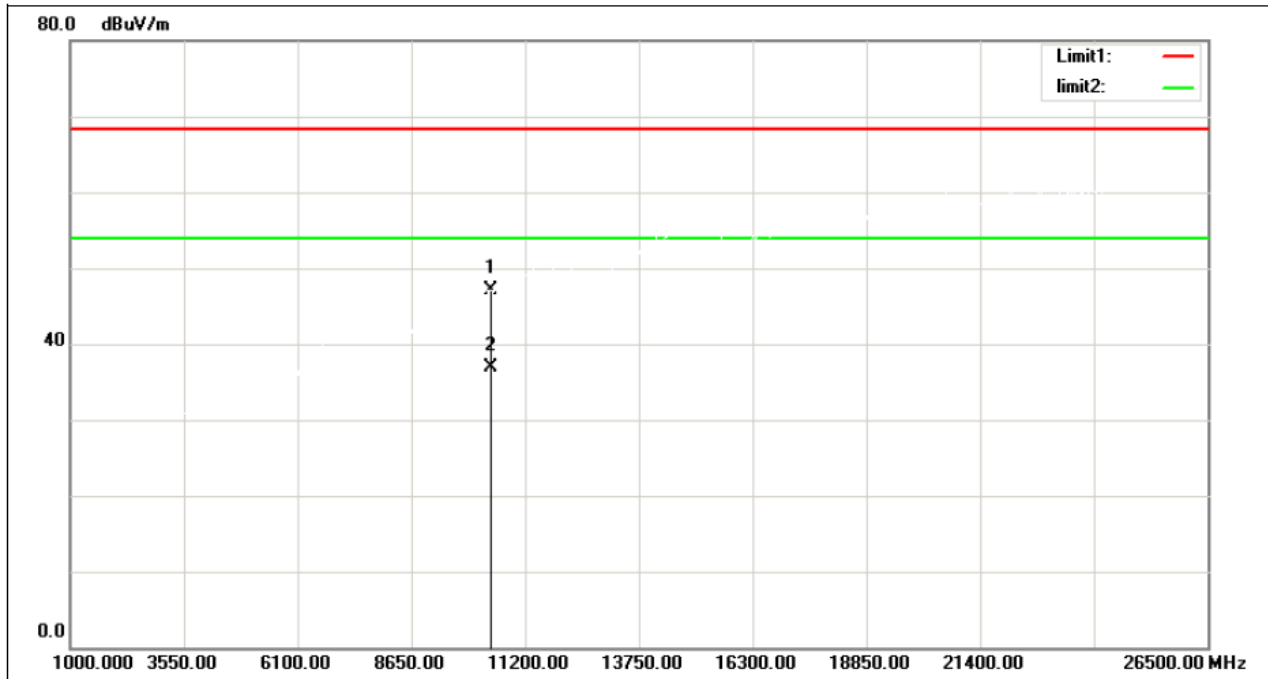
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11340.000 | 41.22 | 8.14 | 49.36 | 68.30 | -18.94 | peak |
| 2 | 11340.000 | 30.55 | 8.14 | 38.69 | 54.00 | -15.31 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT80) Mode 5210 MHz |

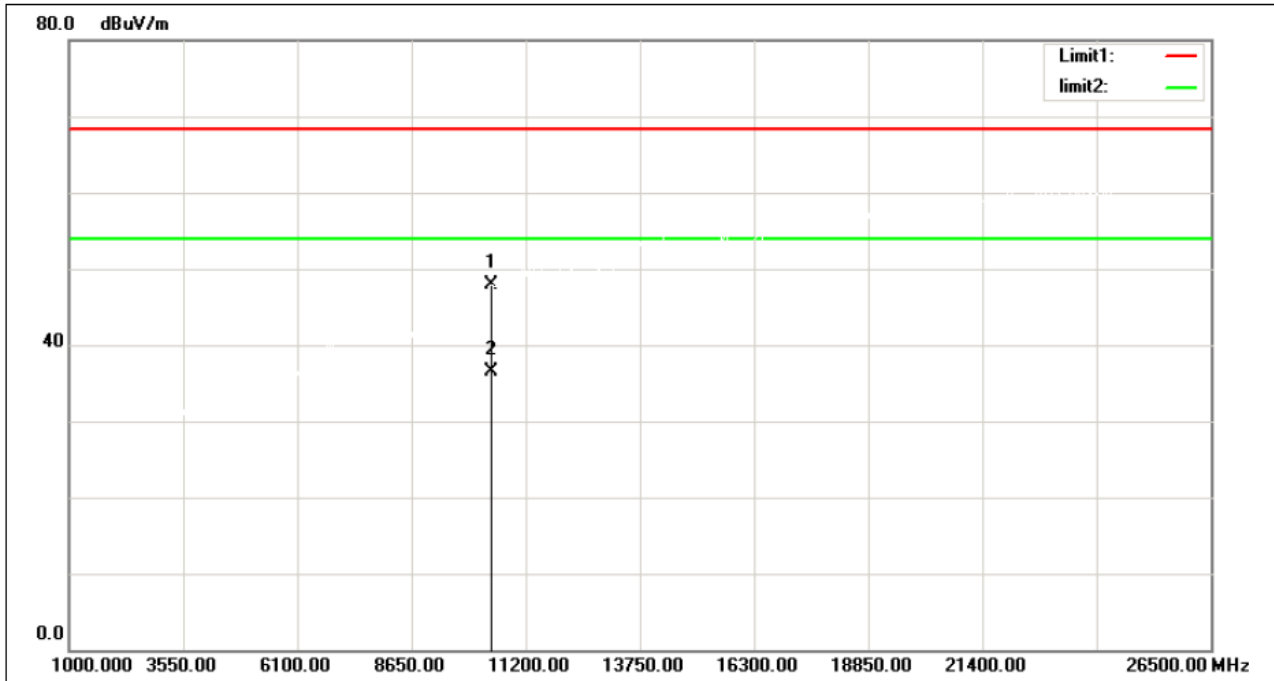
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 10420.000 | 40.72 | 6.41 | 47.13 | 68.30 | -21.17 | peak |
| 2 | 10420.000 | 30.46 | 6.41 | 36.87 | 54.00 | -17.13 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT80) Mode 5210 MHz |

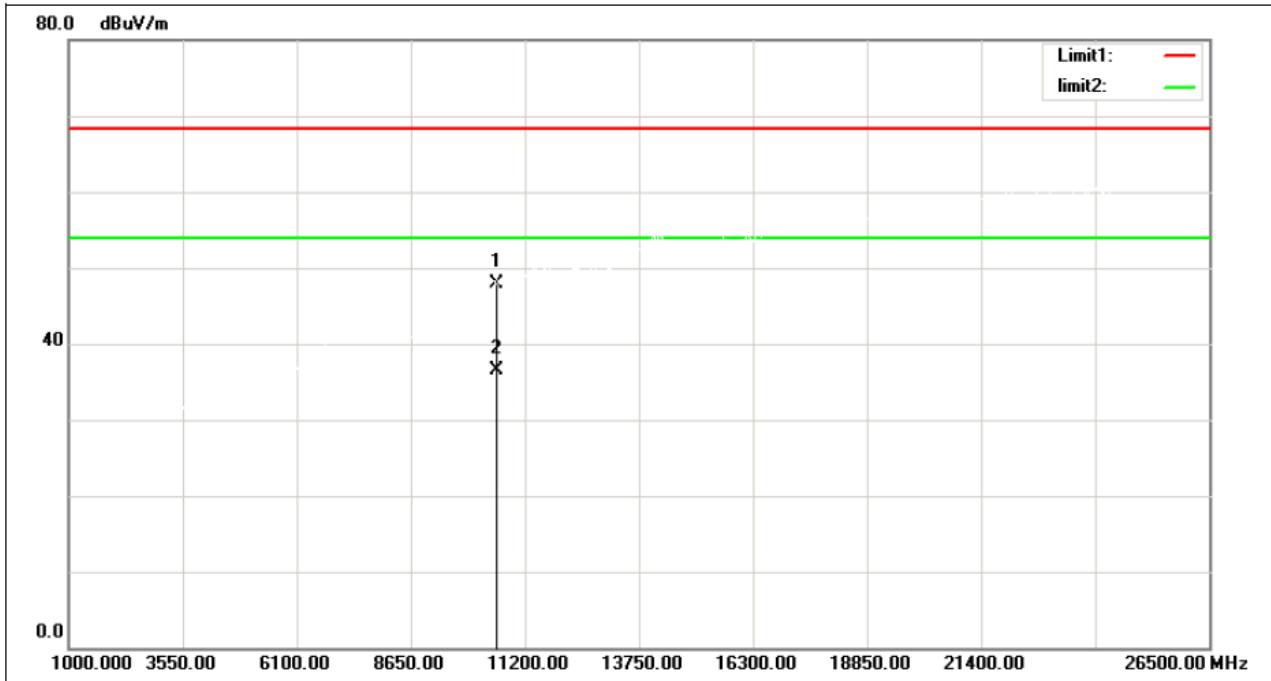
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 10420.000 | 41.48 | 6.41 | 47.89 | 68.30 | -20.41 | peak |
| 2 | 10420.000 | 30.08 | 6.41 | 36.49 | 54.00 | -17.51 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2A_TX AC (VHT80) Mode 5290 MHz |

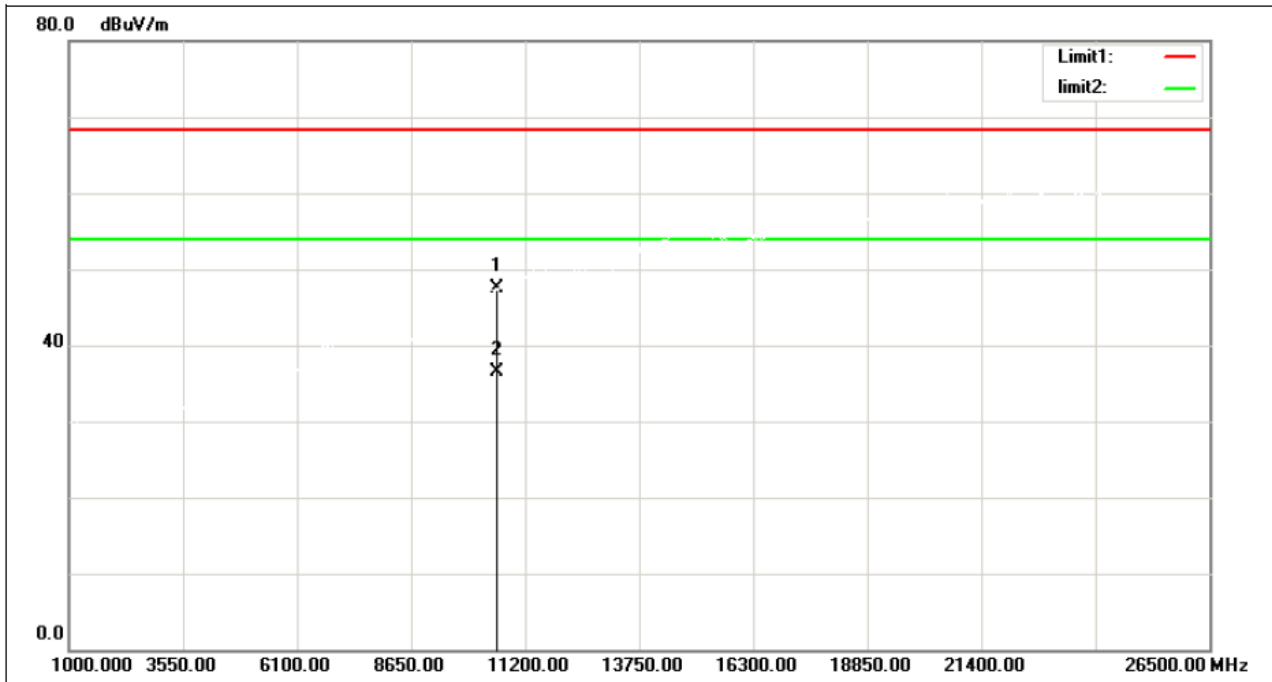
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 10580.000 | 40.91 | 6.94 | 47.85 | 68.30 | -20.45 | peak |
| 2 | 10580.000 | 29.47 | 6.94 | 36.41 | 54.00 | -17.59 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2A_TX AC (VHT80) Mode 5290 MHz |

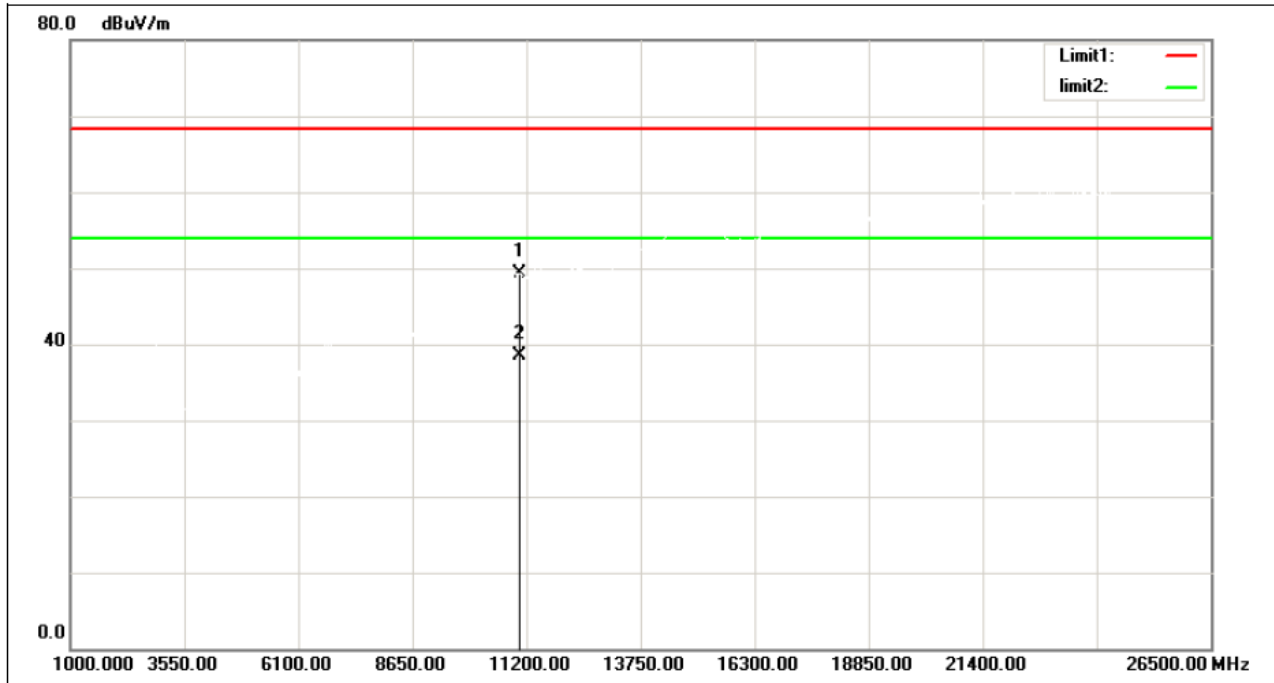
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|-----------------------|-----------------|----------------|-------------|--------|
| 1 | 10580.000 | 40.65 | 6.94 | 47.59 | 68.30 | -20.71 | peak |
| 2 | 10580.000 | 29.55 | 6.94 | 36.49 | 54.00 | -17.51 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2C_TX AC (VHT80) Mode 5530 MHz |

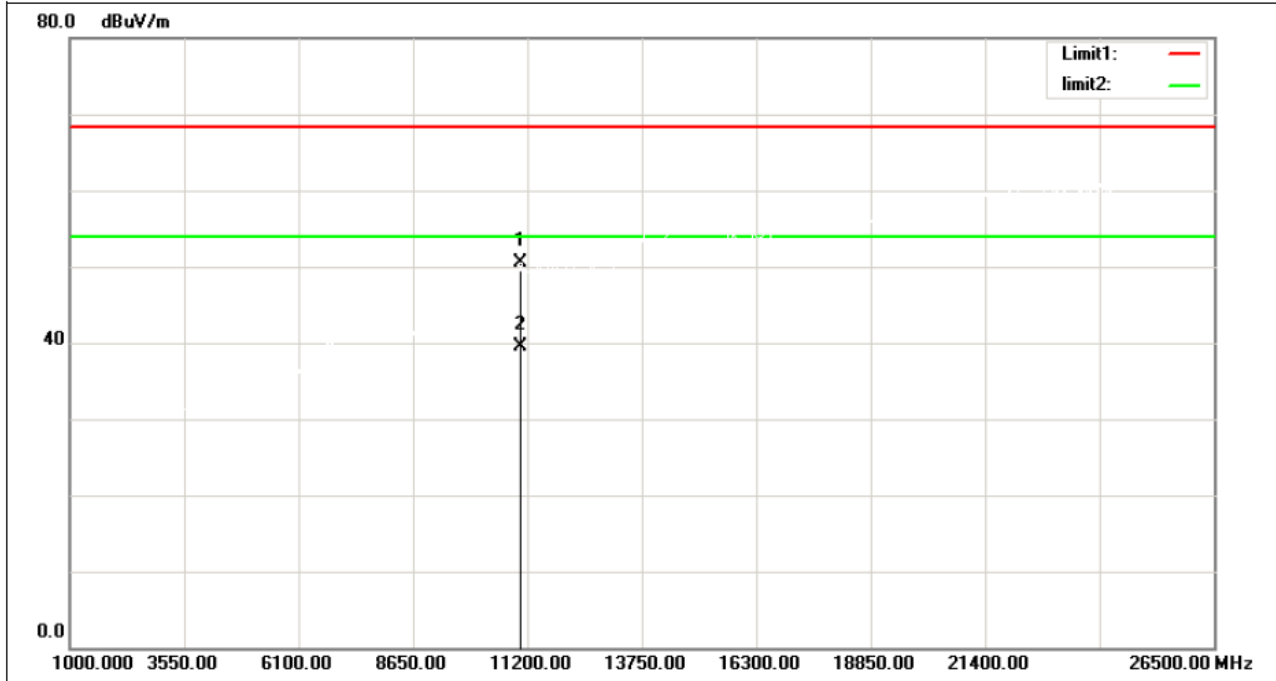
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11060.000 | 41.02 | 8.28 | 49.30 | 68.30 | -19.00 | peak |
| 2 | 11060.000 | 30.31 | 8.28 | 38.59 | 54.00 | -15.41 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2C_TX AC (VHT80) Mode 5530 MHz |

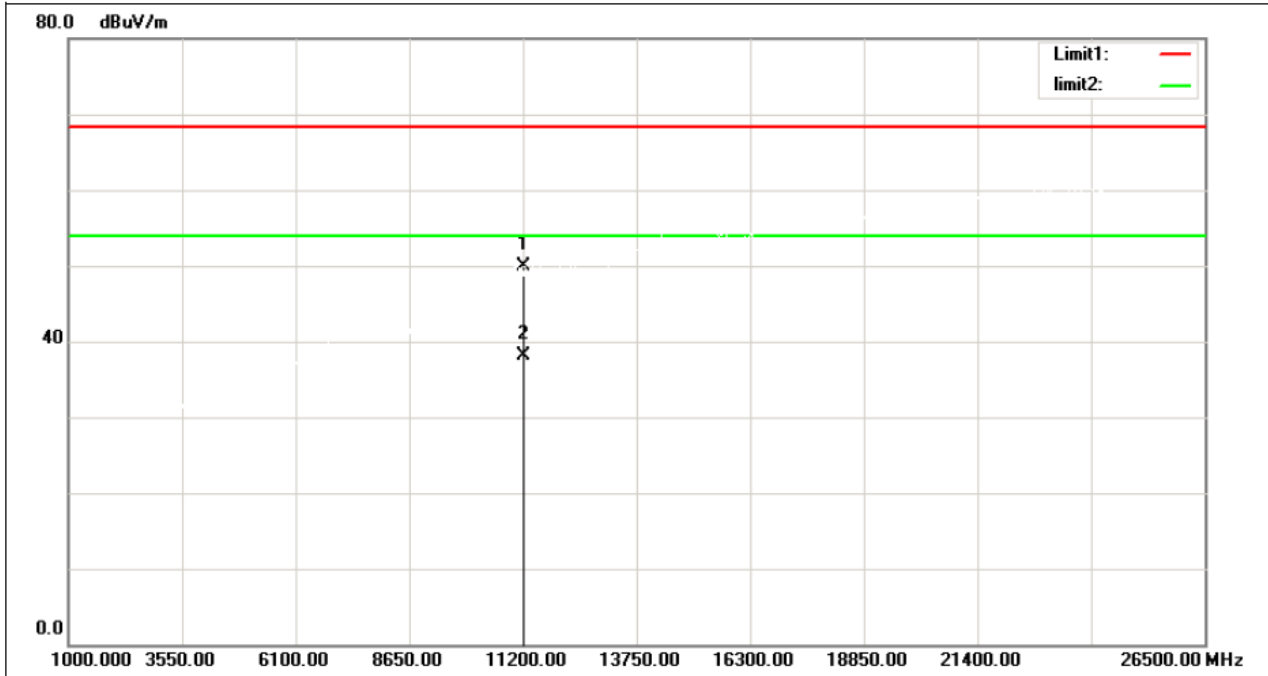
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|-----------------------|-----------------|----------------|-------------|--------|
| 1 | 11060.000 | 42.15 | 8.28 | 50.43 | 68.30 | -17.87 | peak |
| 2 | 11060.000 | 31.14 | 8.28 | 39.42 | 54.00 | -14.58 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2C_TX AC (VHT80) Mode 5610 MHz |

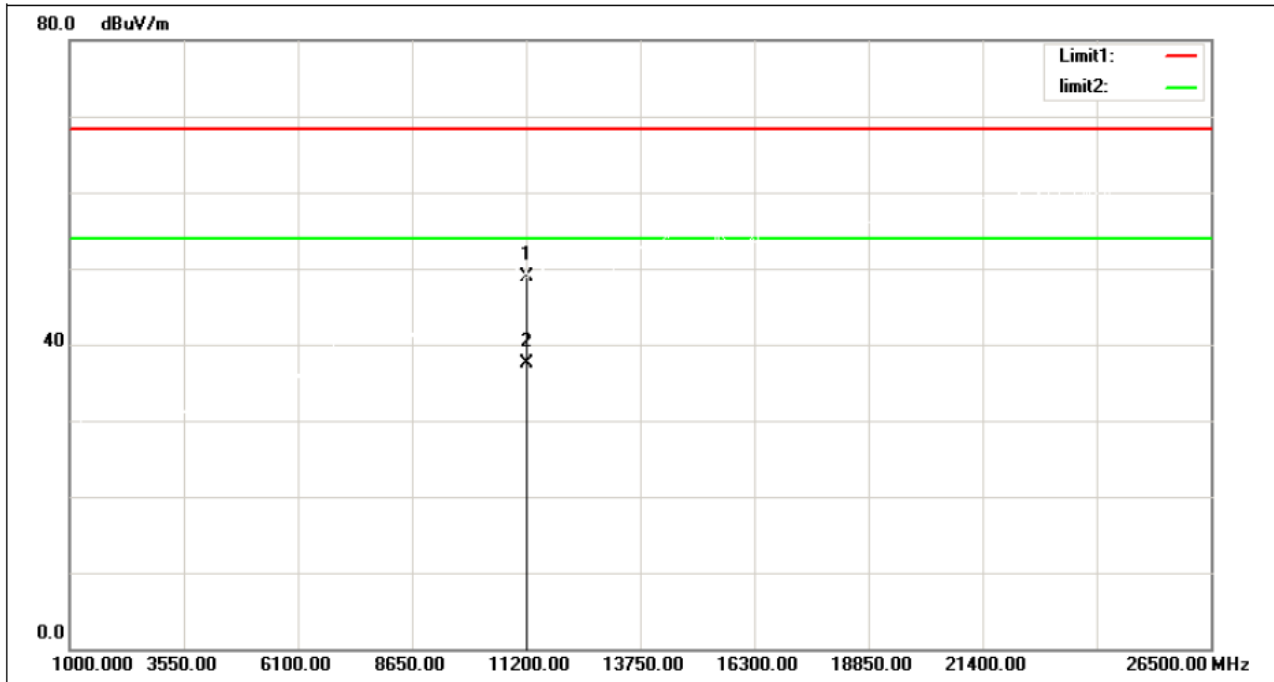
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11220.000 | 41.73 | 8.19 | 49.92 | 68.30 | -18.38 | peak |
| 2 | 11220.000 | 29.97 | 8.19 | 38.16 | 54.00 | -15.84 | AVG |

| | |
|-----------------|-------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-2C_TX AC (VHT80) Mode 5610 MHz |

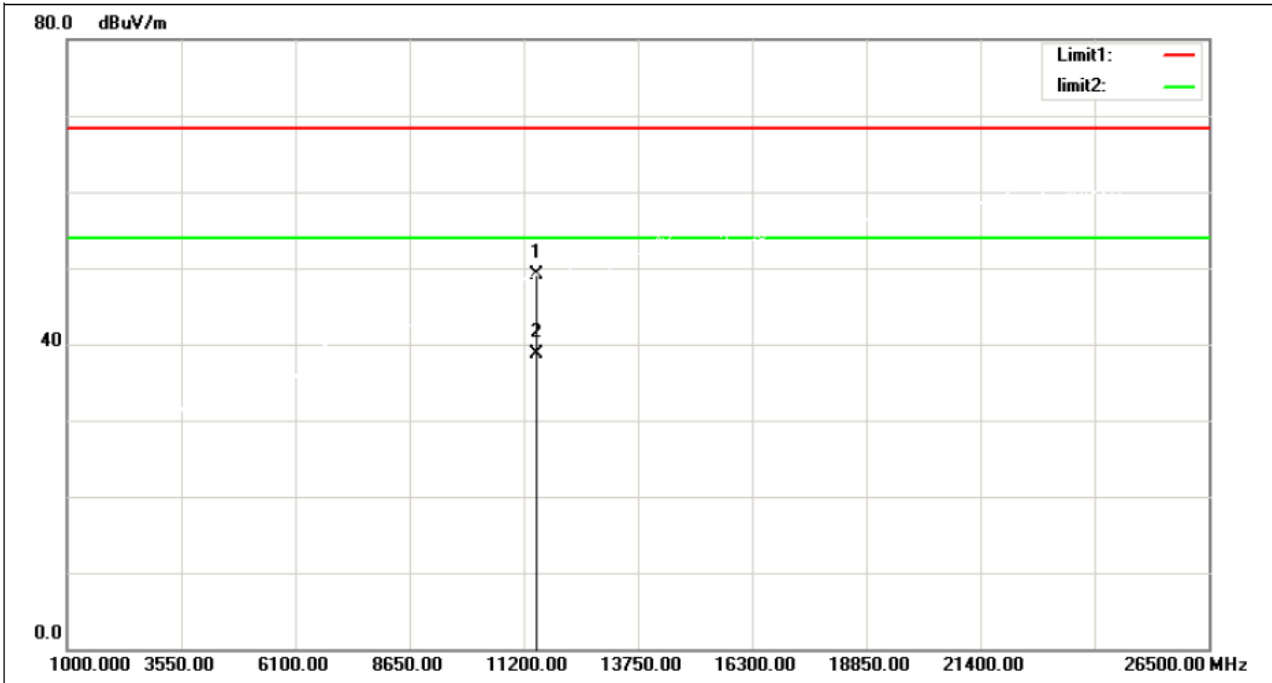
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11220.000 | 40.72 | 8.19 | 48.91 | 68.30 | -19.39 | peak |
| 2 | 11220.000 | 29.27 | 8.19 | 37.46 | 54.00 | -16.54 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT20) Mode 5745 MHz |

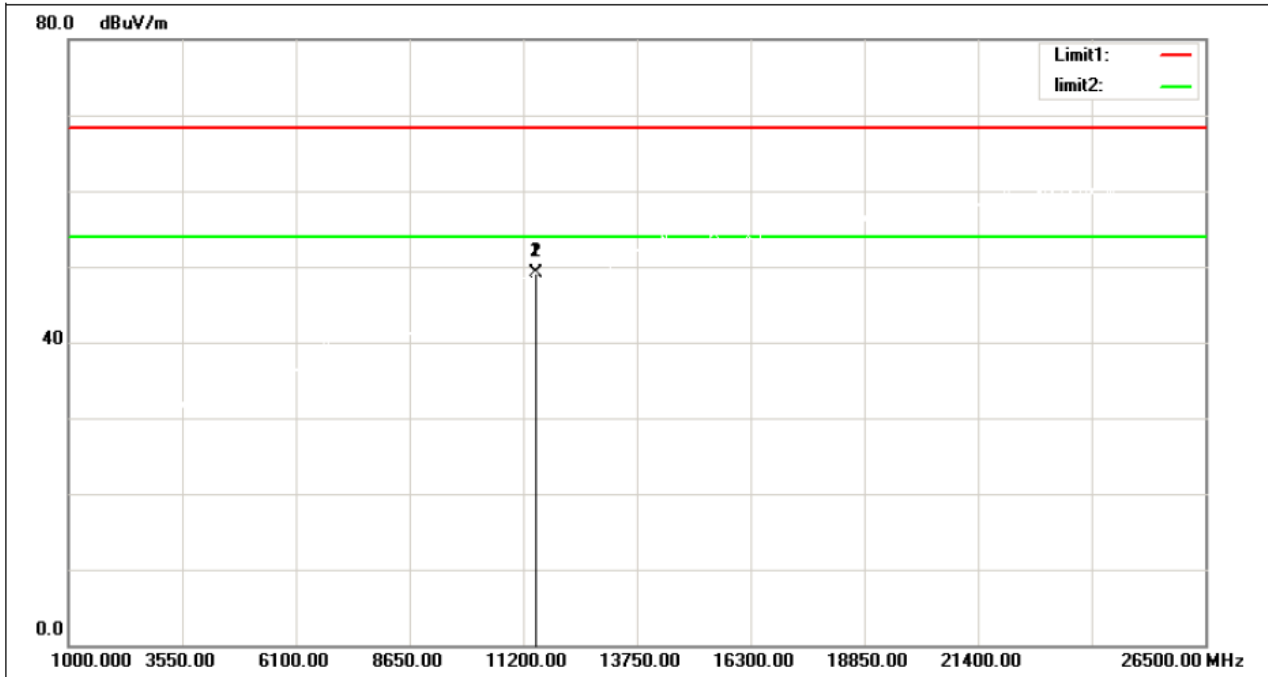
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11490.000 | 41.03 | 8.06 | 49.09 | 68.30 | -19.21 | peak |
| 2 | 11490.000 | 30.58 | 8.06 | 38.64 | 54.00 | -15.36 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT20) Mode 5745 MHz |

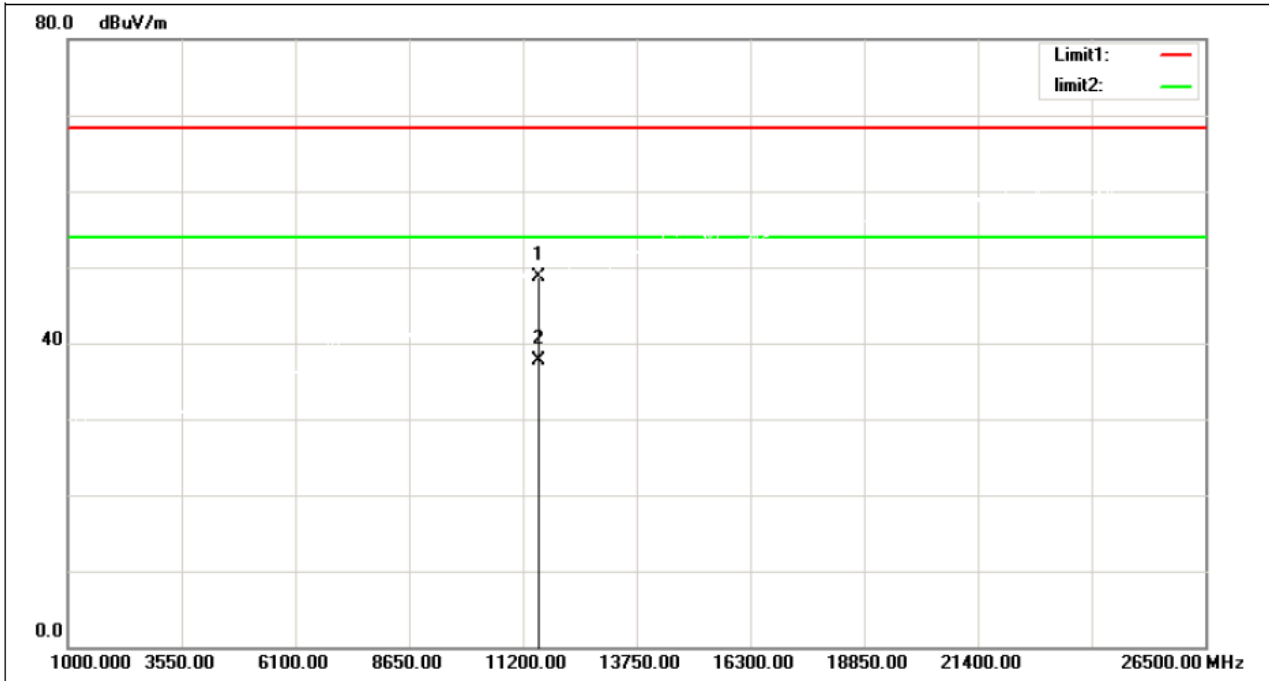
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 11490.000 | 41.10 | 8.06 | 49.16 | 68.30 | -19.14 | peak |
| 2 | 11490.000 | 41.10 | 8.06 | 49.16 | 54.00 | -4.84 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT20) Mode 5785 MHz |

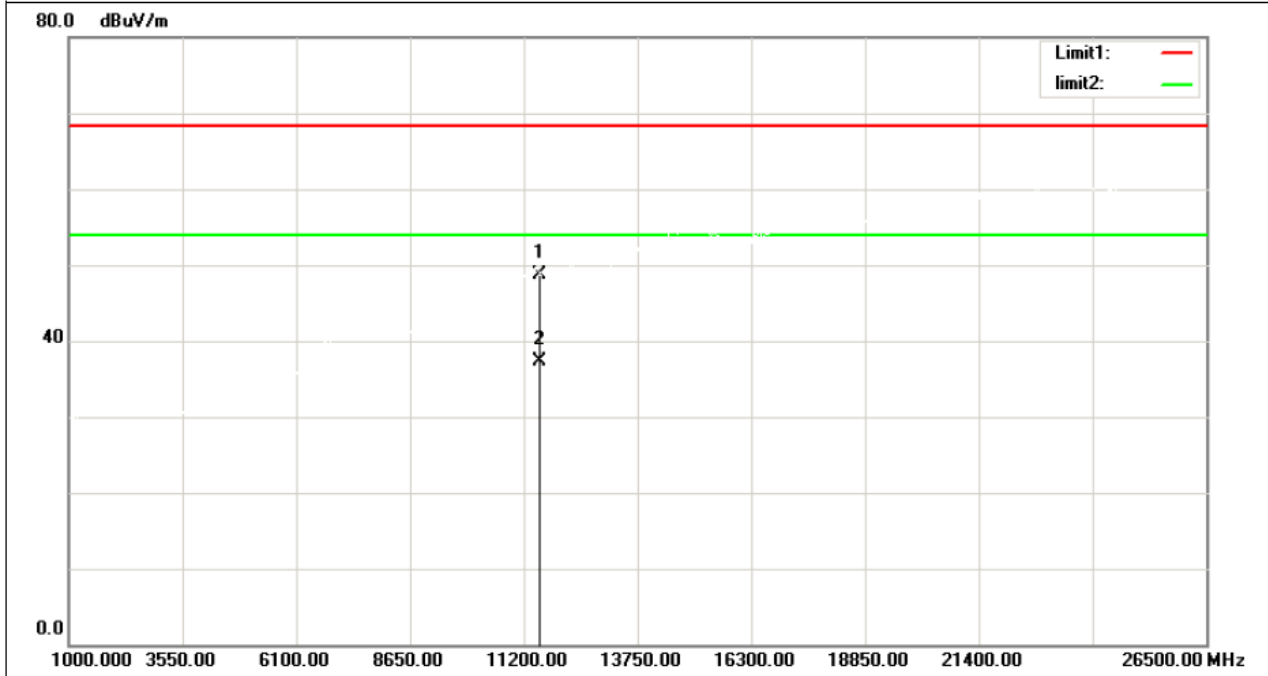
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11570.000 | 40.80 | 8.00 | 48.80 | 68.30 | -19.50 | peak |
| 2 | 11570.000 | 29.61 | 8.00 | 37.61 | 54.00 | -16.39 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT20) Mode 5785 MHz |

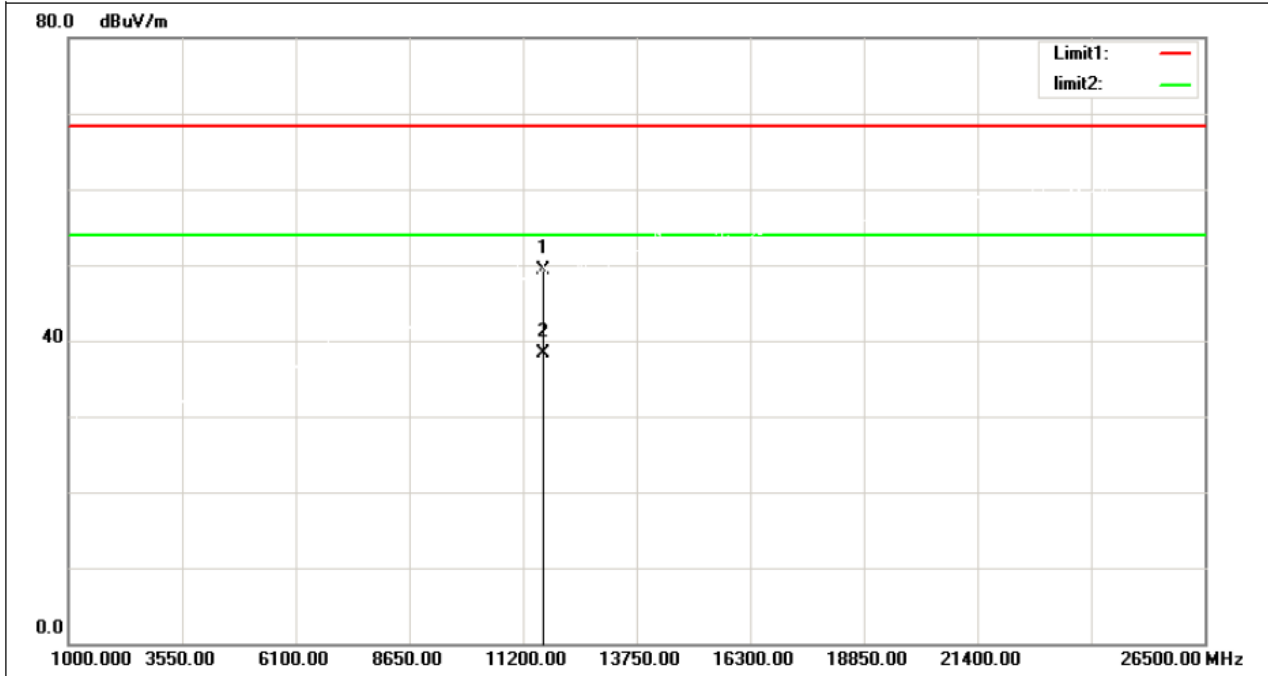
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11570.000 | 40.63 | 8.00 | 48.63 | 68.30 | -19.67 | peak |
| 2 | 11570.000 | 29.28 | 8.00 | 37.28 | 54.00 | -16.72 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT20) Mode 5825 MHz |

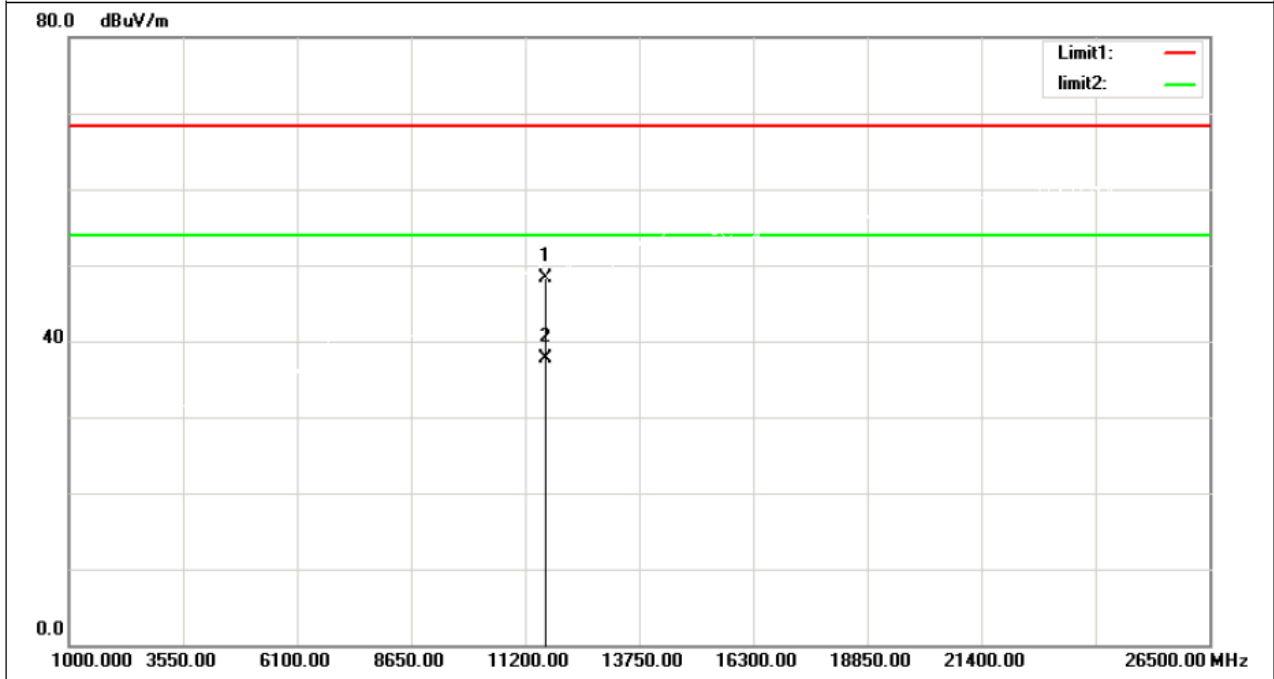
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 11650.000 | 41.36 | 7.97 | 49.33 | 68.30 | -18.97 | peak |
| 2 | 11650.000 | 30.24 | 7.97 | 38.21 | 54.00 | -15.79 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT20) Mode 5825 MHz |

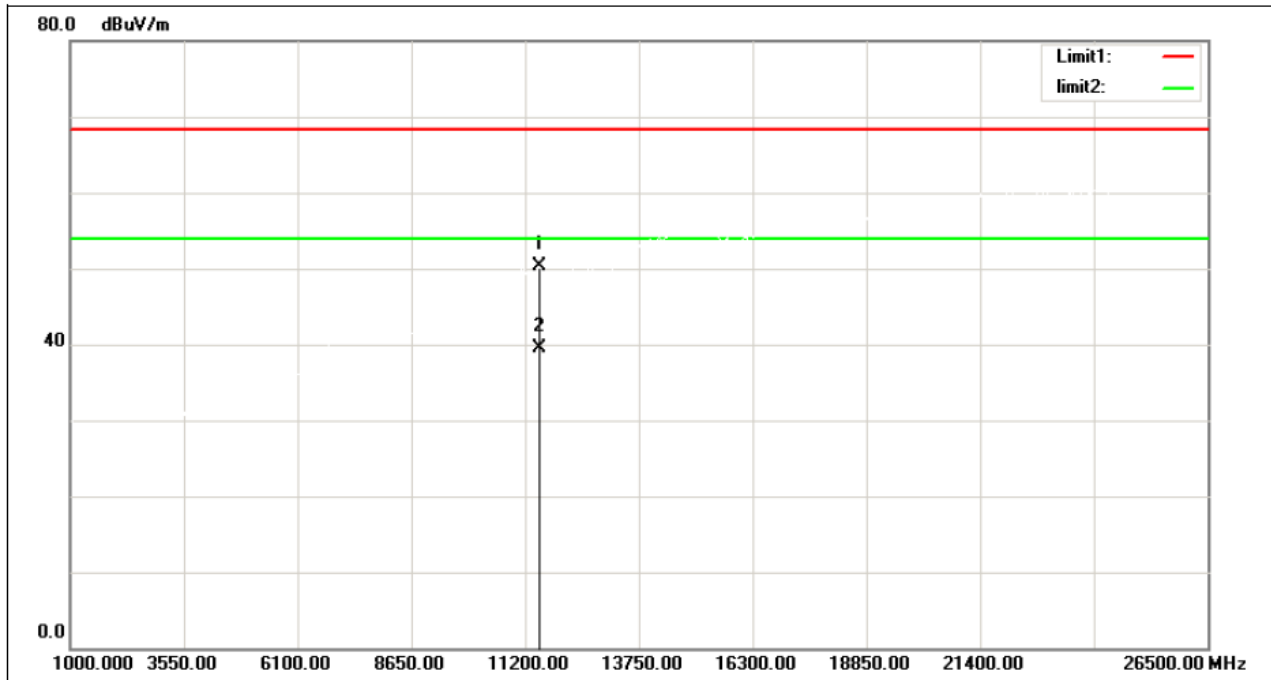
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11650.000 | 40.31 | 7.97 | 48.28 | 68.30 | -20.02 | peak |
| 2 | 11650.000 | 29.67 | 7.97 | 37.64 | 54.00 | -16.36 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT40) Mode 5755 MHz |

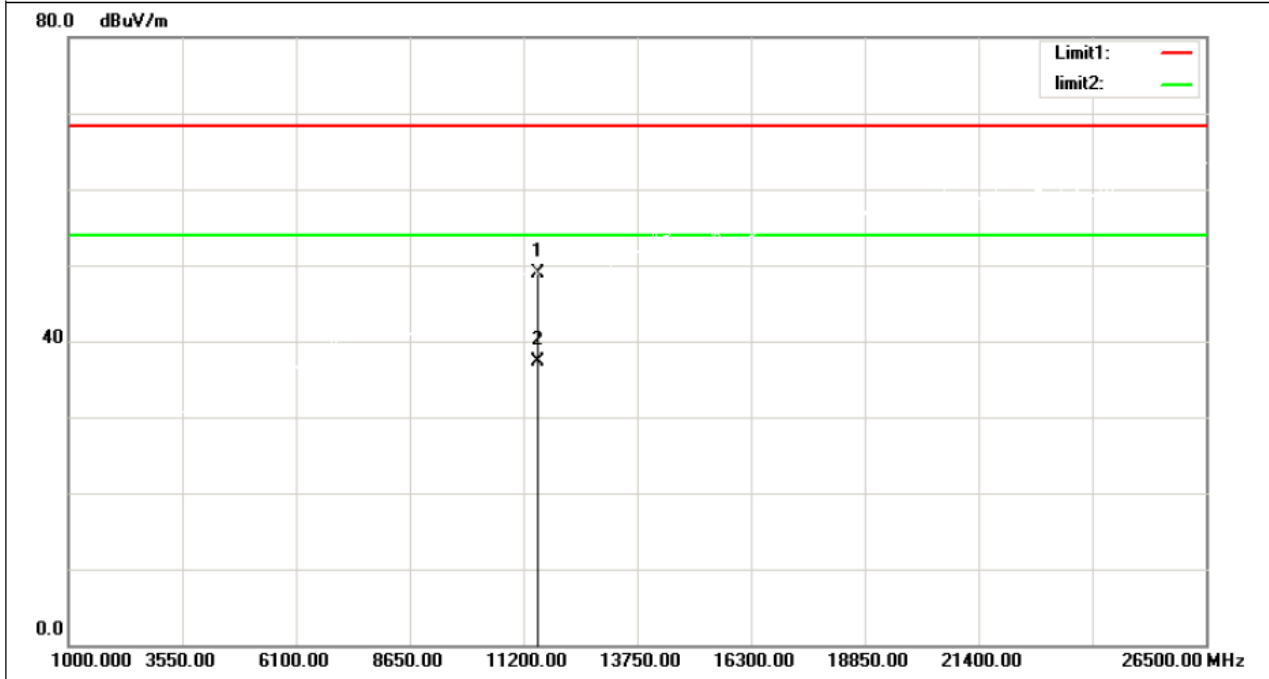
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11510.000 | 42.20 | 8.04 | 50.24 | 68.30 | -18.06 | peak |
| 2 | 11510.000 | 31.52 | 8.04 | 39.56 | 54.00 | -14.44 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT40) Mode 5755 MHz |

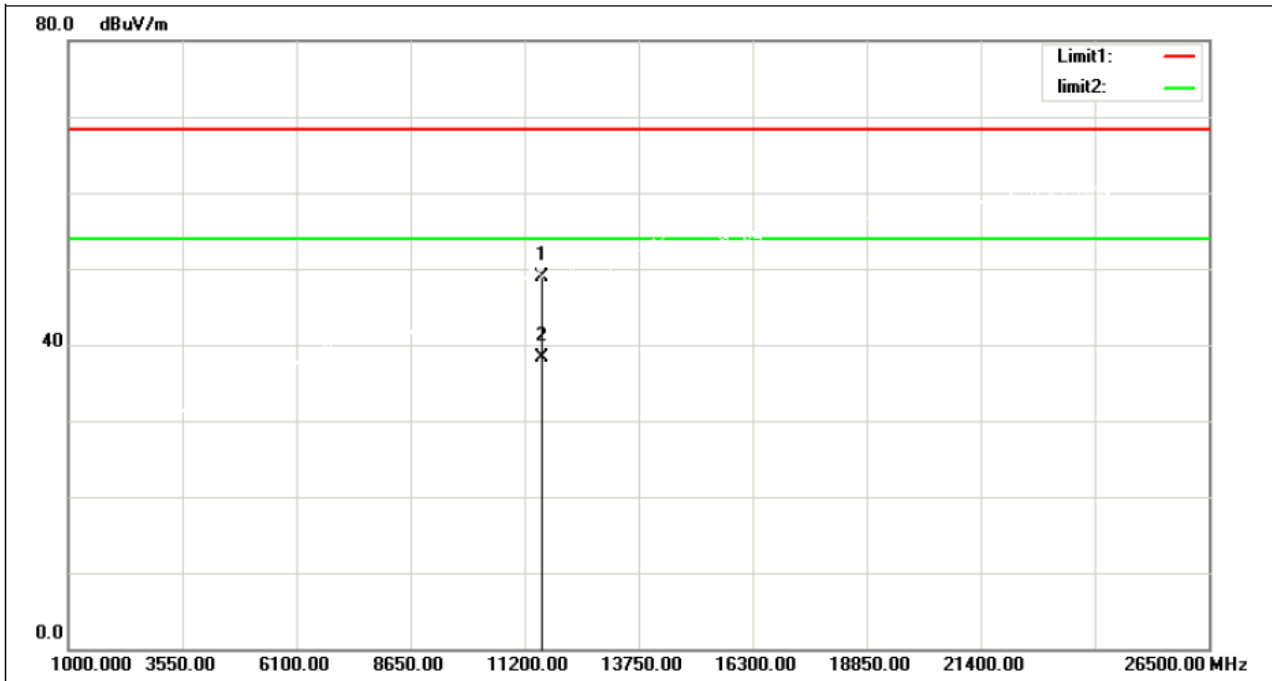
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11510.000 | 40.77 | 8.04 | 48.81 | 68.30 | -19.49 | peak |
| 2 | 11510.000 | 29.22 | 8.04 | 37.26 | 54.00 | -16.74 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT40) Mode 5795 MHz |

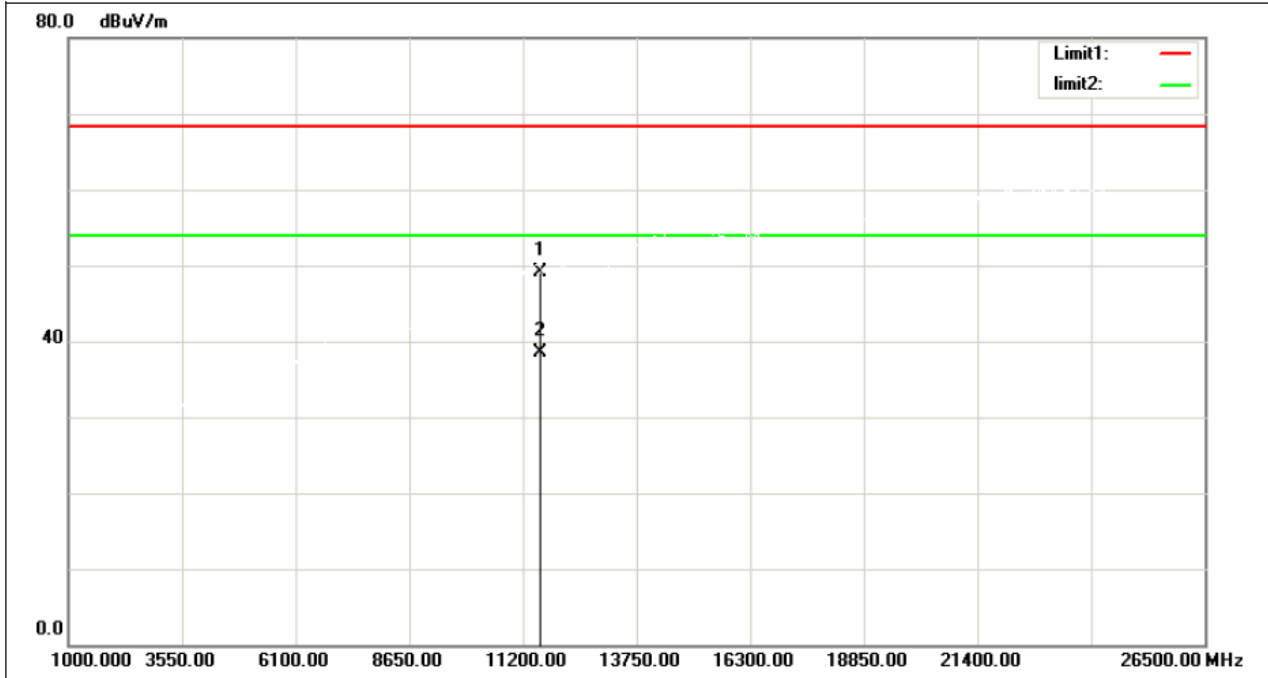
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11590.000 | 40.99 | 8.01 | 49.00 | 68.30 | -19.30 | peak |
| 2 | 11590.000 | 30.25 | 8.01 | 38.26 | 54.00 | -15.74 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT40) Mode 5795 MHz |

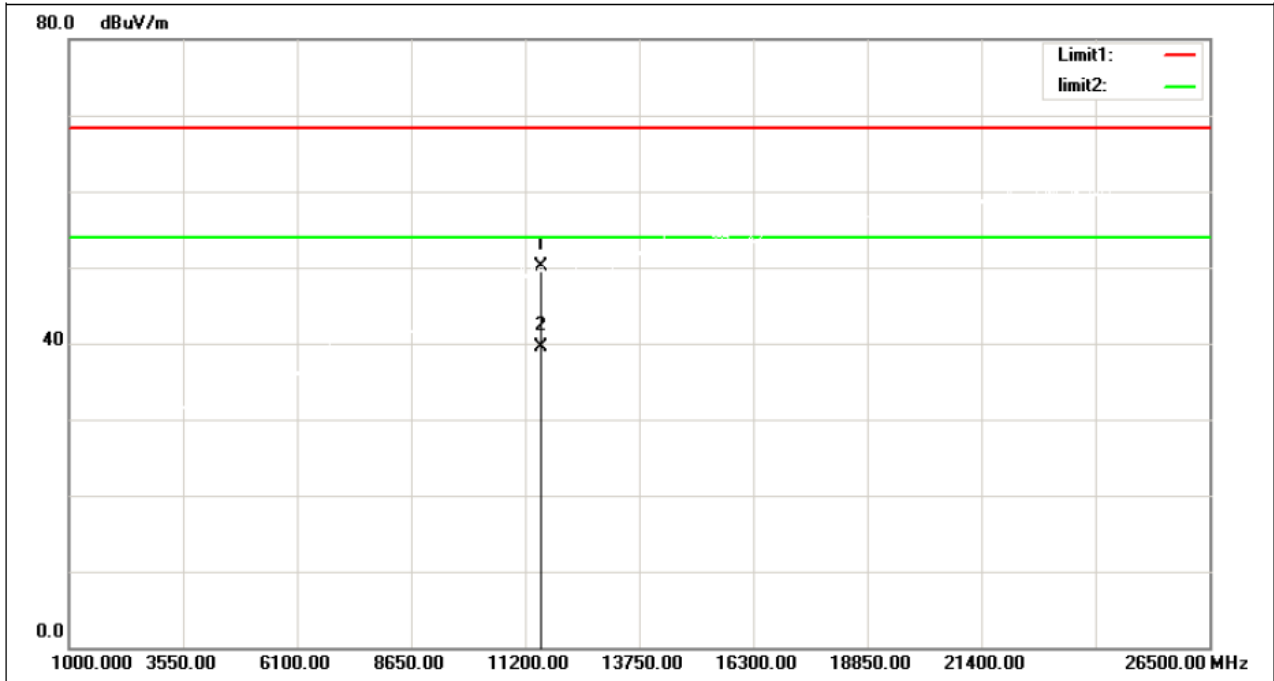
Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11590.000 | 41.17 | 8.01 | 49.18 | 68.30 | -19.12 | peak |
| 2 | 11590.000 | 30.55 | 8.01 | 38.56 | 54.00 | -15.44 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT80) Mode 5775 MHz |

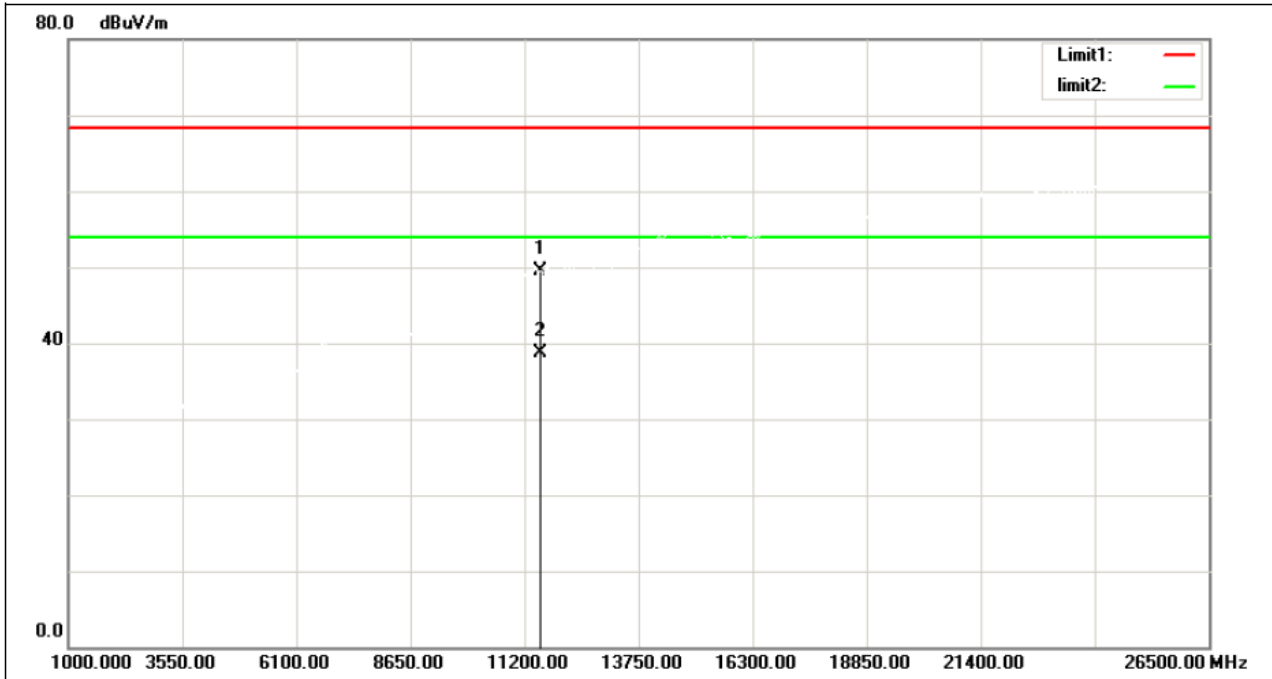
Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 11550.000 | 42.04 | 8.02 | 50.06 | 68.30 | -18.24 | peak |
| 2 | 11550.000 | 31.44 | 8.02 | 39.46 | 54.00 | -14.54 | AVG |

| | |
|-----------------|------------------------------------|
| Orthogonal Axis | X |
| Test Mode | UNII-3_TX AC (VHT80) Mode 5775 MHz |

Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|-----------------------|-----------------|----------------|-------------|--------|
| 1 | 11550.000 | 41.51 | 8.02 | 49.53 | 68.30 | -18.77 | peak |
| 2 | 11550.000 | 30.59 | 8.02 | 38.61 | 54.00 | -15.39 | AVG |

6BANDWIDTH TEST

6.1LIMIT

| FCC Part15, Subpart E (15.407) RSS-Gen and RSS-247 | | | |
|---|-----------------|-----------------|-----------------------|
| Section | Test Item | Limit | Frequency Range (MHz) |
| 15.407(a) 15.407(e) | 26 dB Bandwidth | - | 5150-5250 |
| RSS-247 6.2.1.1 RSS-247 6.2.4.1 | 6dB Bandwidth | Minimum 500 kHz | 5725-5850 |

6.2TEST PROCEDURE AND SETTING

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below

b. Spectrum Setting:

For UNII-1:

| Spectrum Parameter | Setting |
|--------------------|---|
| Attenuation | Auto |
| Span Frequency | > 26dB Bandwidth |
| RBW | 300 kHz (Bandwidth 20 MHz) 1 MHz (Bandwidth 40 MHz and 80 MHz) |
| VBW | 1 MHz (Bandwidth 20 MHz) 3 MHz (Bandwidth 40 MHz and 80 MHz) |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

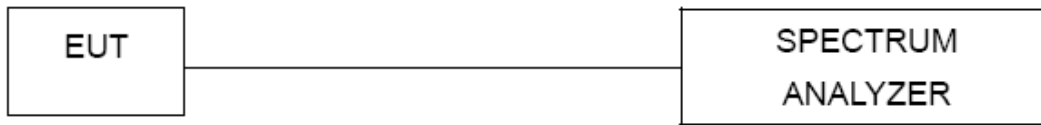
For UNII-3:

| Spectrum Parameter | Setting |
|--------------------|---------------|
| Attenuation | Auto |
| Span Frequency | 6dB Bandwidth |
| RBW | 100 kHz |
| VBW | 300 kHz |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

c. Measured the spectrum width with power higher than 26dB / 6dB below carrier.

6.3MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2022/05/28 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

6.4 TEST SETUP**6.5 EUT OPERATION CONDITIONS**

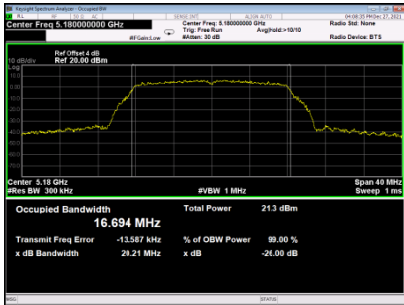
The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

UNII-1_TX A Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 36 | 5180 | 20.21 | 16.694 |
| 40 | 5200 | 20.14 | 16.568 |
| 48 | 5240 | 20.02 | 16.575 |

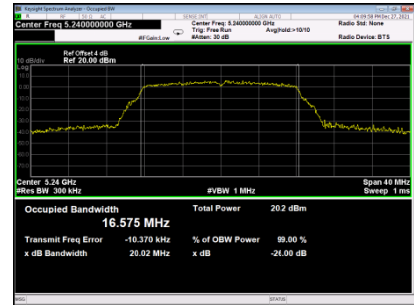
CH36



CH40



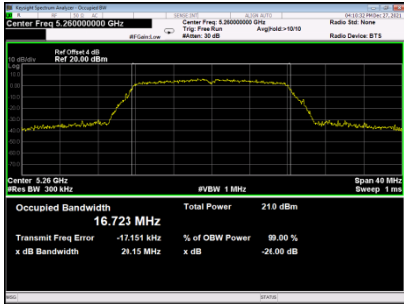
CH48



UNII-2A_TX A Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 52 | 5260 | 20.15 | 16.723 |
| 60 | 5300 | 20.07 | 16.581 |
| 64 | 5320 | 19.92 | 16.601 |

CH52



CH60



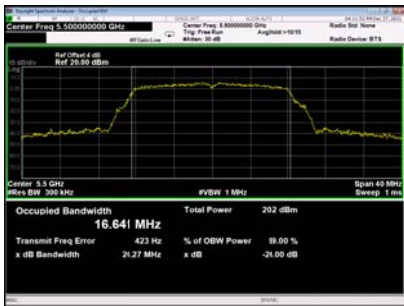
CH64



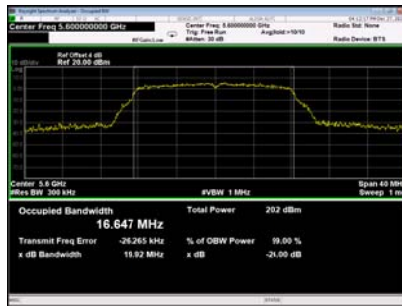
UNII-2C_TX A Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 100 | 5500 | 20.27 | 16.641 |
| 120 | 5600 | 19.92 | 16.647 |
| 140 | 5700 | 20.23 | 16.647 |

CH100



CH120



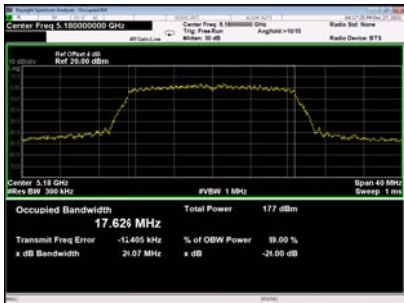
CH140



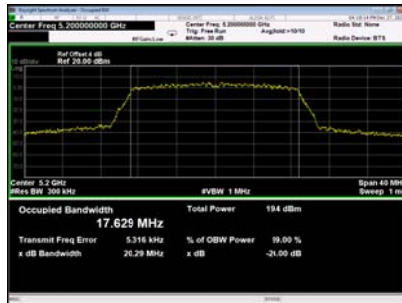
UNII-1_TX N (HT20) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 36 | 5180 | 20.07 | 17.626 |
| 40 | 5200 | 20.29 | 17.629 |
| 48 | 5240 | 20.33 | 17.593 |

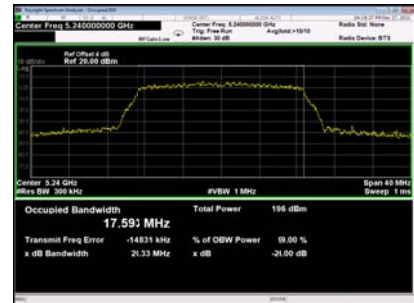
CH36



CH40



CH48



UNII-2A_TX N (HT20) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 52 | 5260 | 20.33 | 17.590 |
| 60 | 5300 | 20.34 | 17.638 |
| 64 | 5320 | 20.10 | 17.638 |

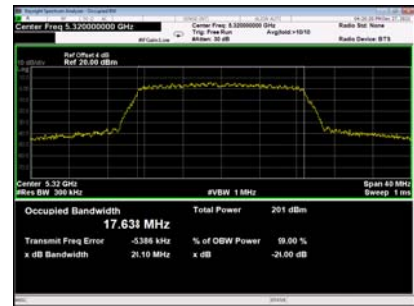
CH52



CH60



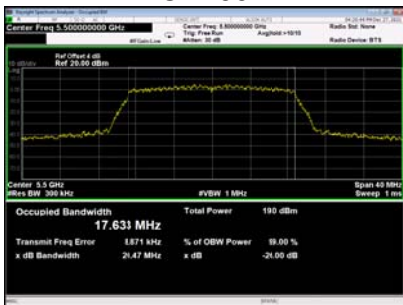
CH64



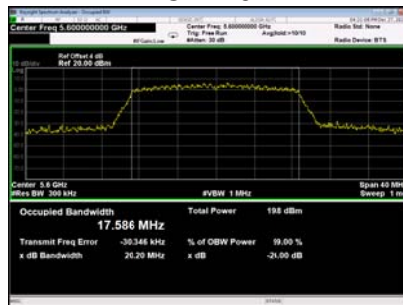
UNII-2C_TX N (HT20) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 100 | 5500 | 20.47 | 17.633 |
| 120 | 5600 | 20.20 | 17.586 |
| 140 | 5700 | 20.25 | 17.670 |

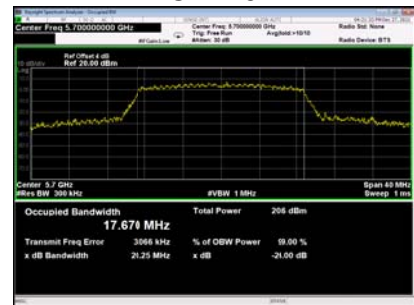
CH100



CH120



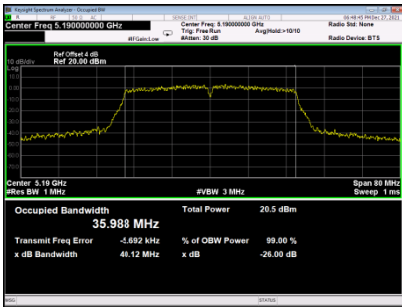
CH140



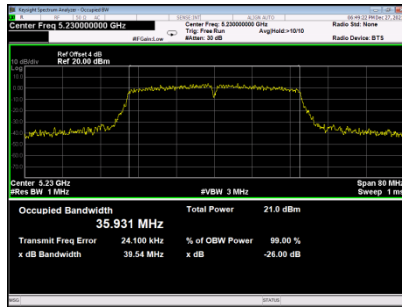
UNII-1_TX N (HT40) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 38 | 5190 | 40.12 | 35.988 |
| 46 | 5230 | 39.54 | 35.931 |

CH38



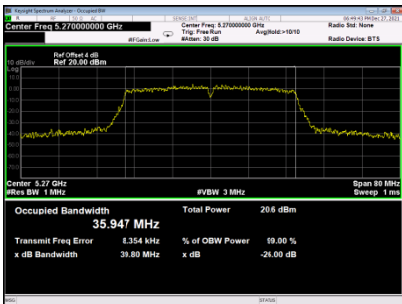
CH46



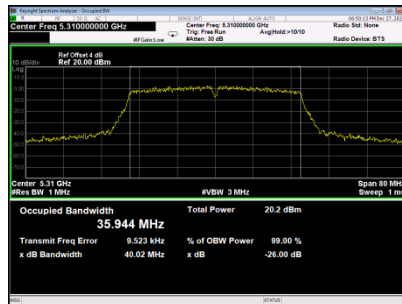
UNII-2A_TX N (HT40) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 54 | 5270 | 39.80 | 35.947 |
| 62 | 5310 | 40.02 | 35.944 |

CH54



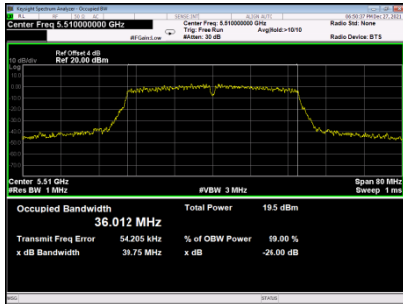
CH62



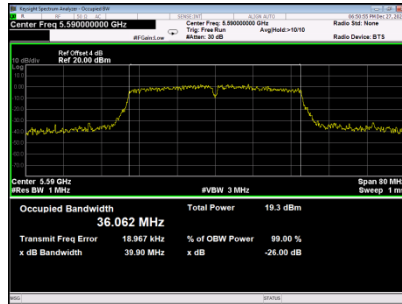
UNII-2C_TX N (HT40) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 102 | 5510 | 39.75 | 36.012 |
| 118 | 5590 | 39.90 | 36.062 |
| 134 | 5670 | 40.09 | 36.051 |

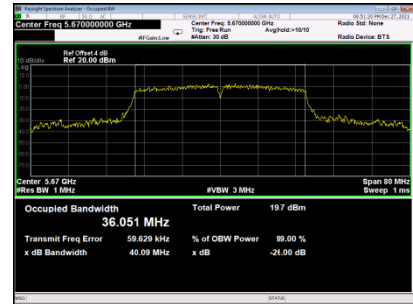
CH102



CH118



CH134



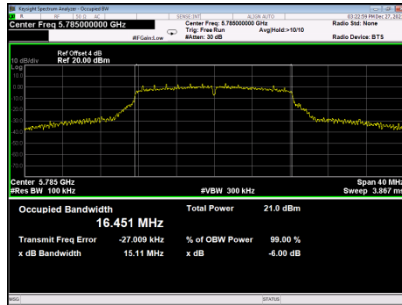
UNII-3 TX A Mode

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Emission Bandwidth(MHz) | 6dB Bandwidth Min. Limit(kHz) | Result |
|---------|-----------------|----------------------|-----------------------------|-------------------------------|--------|
| 149 | 5745 | 15.12 | 16.663 | 500 | PASS |
| 157 | 5785 | 15.11 | 16.704 | 500 | PASS |
| 165 | 5825 | 15.16 | 16.604 | 500 | PASS |

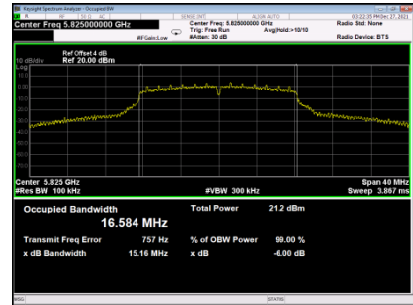
CH149



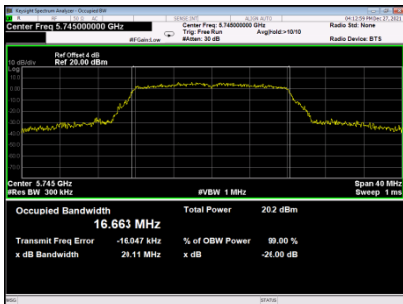
**6 dB Bandwidth
CH157**



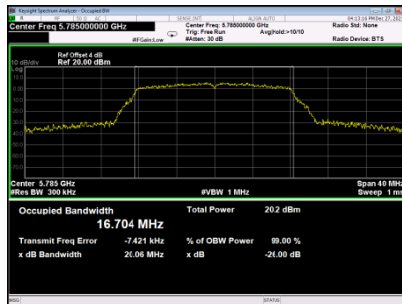
CH165



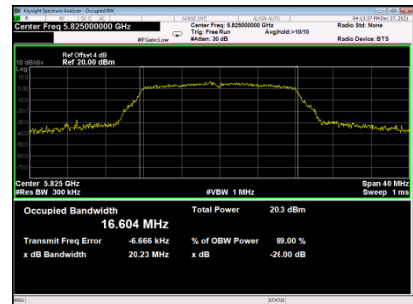
CH149



**99% Emission Bandwidth
CH157**

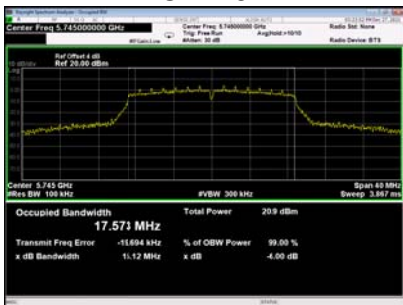


CH165

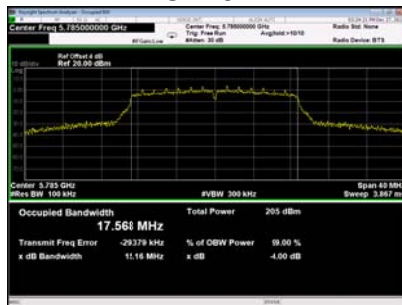


| UNII-3_TX N (HT20) Mode | | | | | |
|-------------------------|-----------------|----------------------|-----------------------------|-------------------------------|--------|
| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Emission Bandwidth(MHz) | 6dB Bandwidth Min. Limit(kHz) | Result |
| 149 | 5745 | 15.12 | 17.641 | 500 | PASS |
| 157 | 5785 | 15.16 | 17.614 | 500 | PASS |
| 165 | 5825 | 15.16 | 17.617 | 500 | PASS |

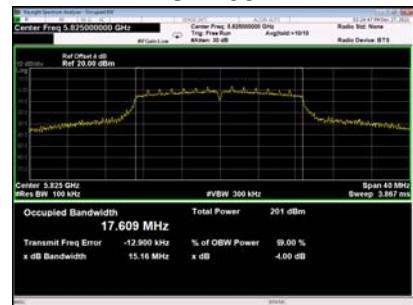
CH149



**6 dB Bandwidth
CH157**

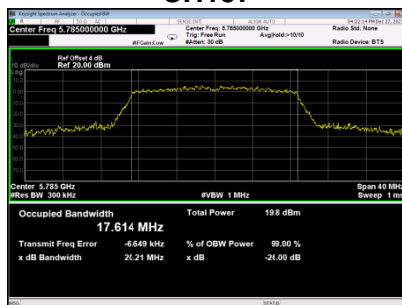
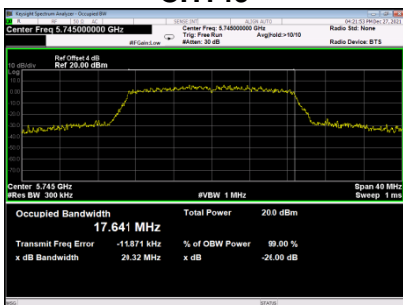


CH165

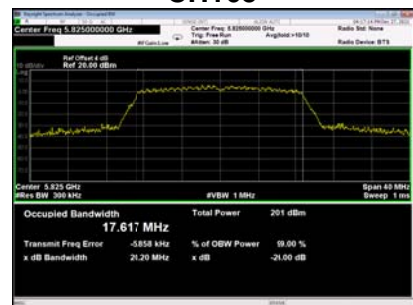


**99% Emission Bandwidth
CH157**

CH149



CH165



UNII-3_TX N (HT40) Mode

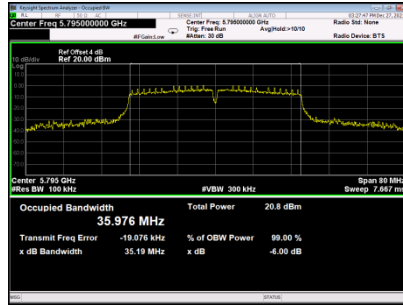
| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Emission Bandwidth(MHz) | 6dB Bandwidth Min. Limit(kHz) | Result |
|---------|-----------------|----------------------|-----------------------------|-------------------------------|--------|
| 151 | 5755 | 35.20 | 35.954 | 500 | PASS |
| 159 | 5795 | 35.19 | 35.911 | 500 | PASS |

6 dB Bandwidth

CH151

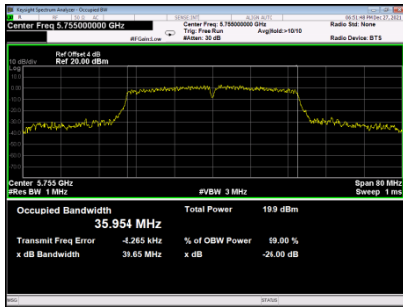


CH159

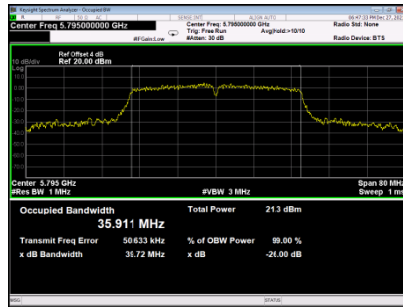


99% Emission Bandwidth

CH151



CH159



UNII-1_TX AC (VHT20) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 36 | 5180 | 20.16 | 17.732 |
| 40 | 5200 | 20.25 | 17.714 |
| 48 | 5240 | 20.24 | 17.758 |

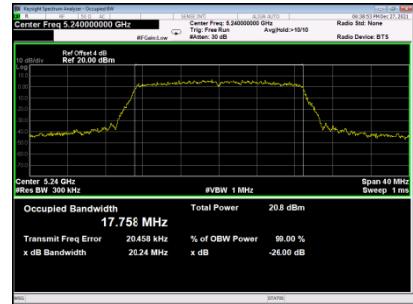
CH36



CH40



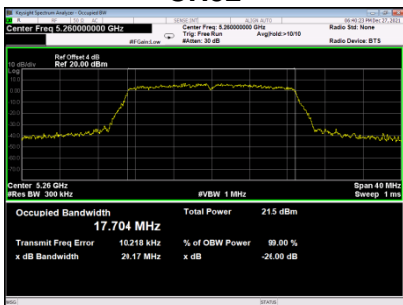
CH48



UNII-2A_TX AC (VHT20) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 52 | 5260 | 20.17 | 17.704 |
| 60 | 5300 | 20.04 | 17.644 |
| 64 | 5320 | 20.04 | 17.690 |

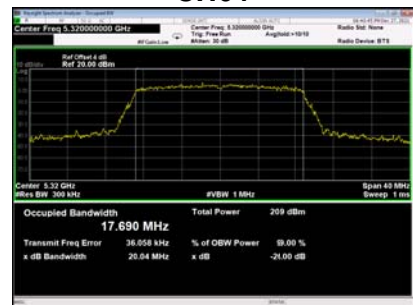
CH52



CH60



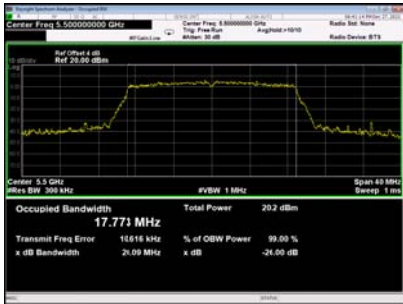
CH64



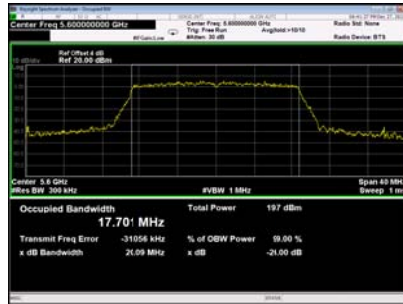
UNII-2C_TX AC (VHT20) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 100 | 5500 | 20.09 | 17.773 |
| 120 | 5600 | 20.09 | 17.701 |
| 140 | 5700 | 20.18 | 17.692 |

CH100



CH120



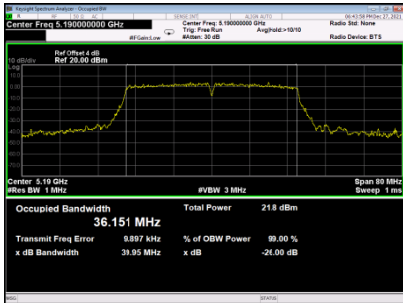
CH140



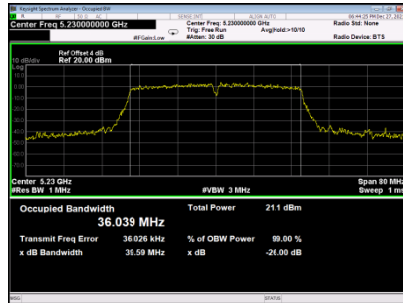
UNII-1_TX AC (VHT40) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 38 | 5190 | 39.95 | 36.151 |
| 46 | 5230 | 39.59 | 36.039 |

CH38



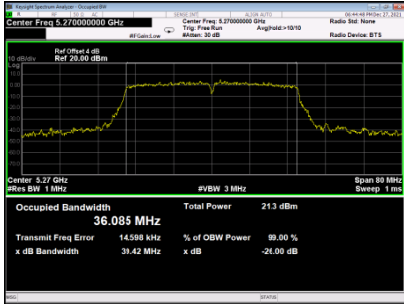
CH46



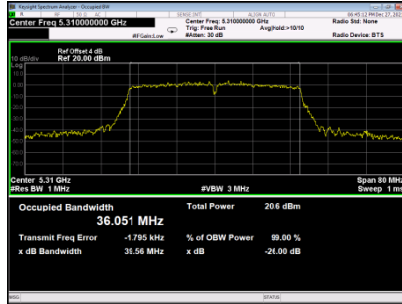
UNII-2A_TX AC (VHT40) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 54 | 5270 | 39.42 | 36.085 |
| 62 | 5310 | 39.56 | 36.051 |

CH54



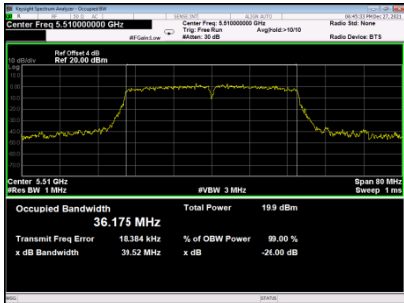
CH62



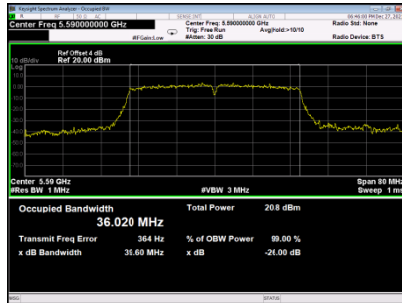
UNII-2C_TX AC (VHT40) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 102 | 5510 | 39.52 | 36.175 |
| 118 | 5590 | 39.60 | 36.020 |
| 134 | 5670 | 39.59 | 36.181 |

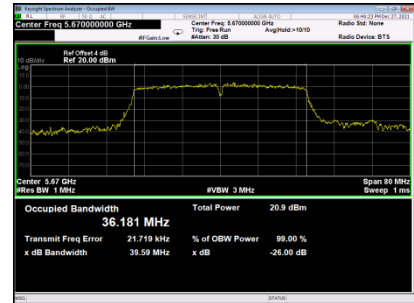
CH102



CH118



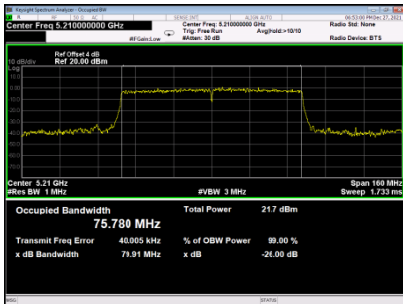
CH134



UNII-1_TX AC (VHT80) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 42 | 5210 | 79.91 | 75.780 |

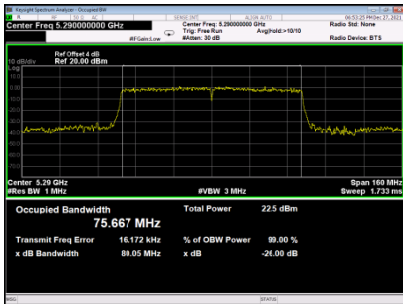
CH42



UNII-2A_TX AC (VHT80) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 58 | 5290 | 80.05 | 75.667 |

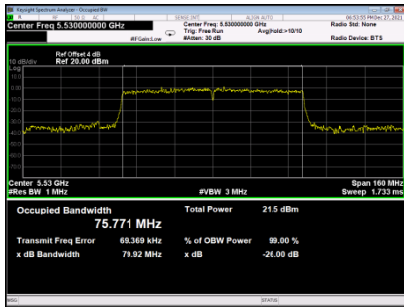
CH58



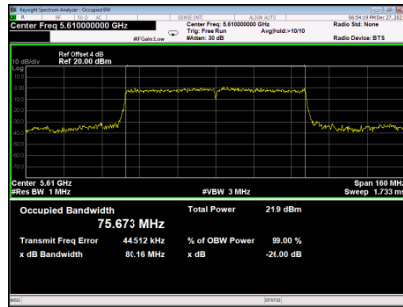
UNII-2C_TX AC (VHT80) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 106 | 5530 | 79.92 | 75.771 |
| 122 | 5610 | 80.16 | 75.673 |

CH106



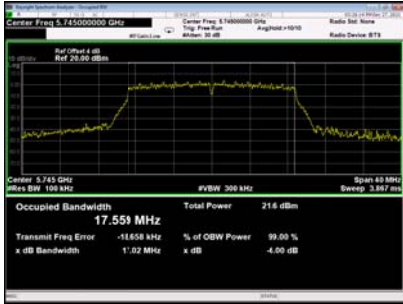
CH122



UNII-3_TX AC (VHT20) Mode

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Emission Bandwidth(MHz) | 6dB Bandwidth Min. Limit(kHz) | Result |
|---------|-----------------|----------------------|-----------------------------|-------------------------------|--------|
| 149 | 5745 | 17.02 | 17.659 | 500 | PASS |
| 157 | 5785 | 16.10 | 17.652 | 500 | PASS |
| 165 | 5825 | 17.60 | 17.699 | 500 | PASS |

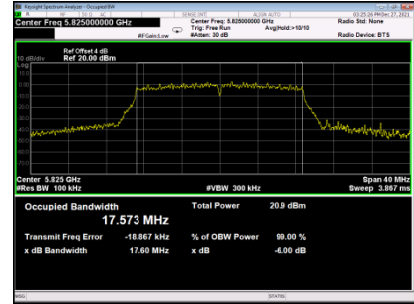
CH149



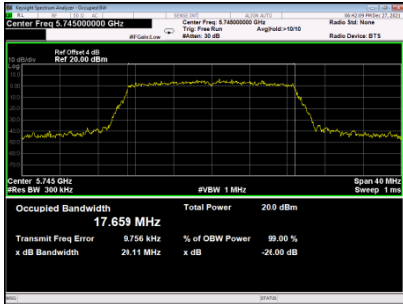
**6 dB Bandwidth
CH157**



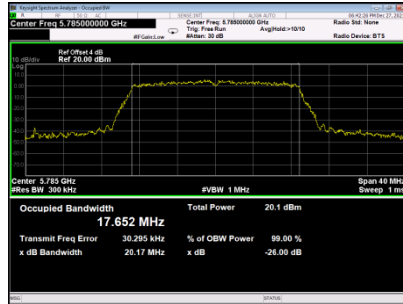
CH165



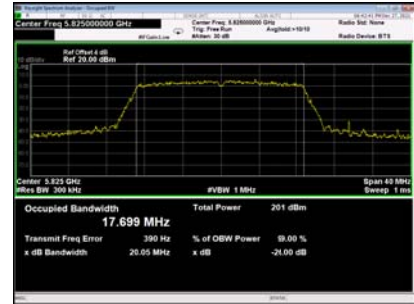
CH149



**99% Emission Bandwidth
CH157**



CH165

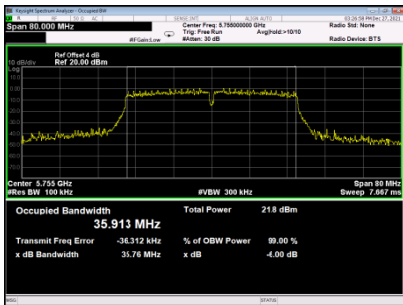


UNII-3_TX AC (VHT40) Mode

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Emission Bandwidth(MHz) | 6dB Bandwidth Min. Limit(kHz) | Result |
|---------|-----------------|----------------------|-----------------------------|-------------------------------|--------|
| 151 | 5755 | 35.76 | 36.047 | 500 | PASS |
| 159 | 5795 | 35.57 | 35.993 | 500 | PASS |

6 dB Bandwidth

CH151

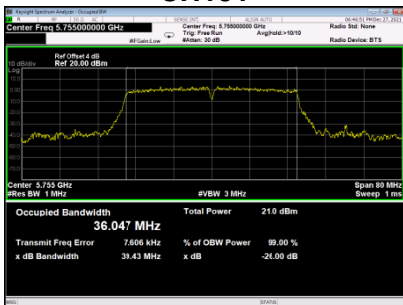


CH159

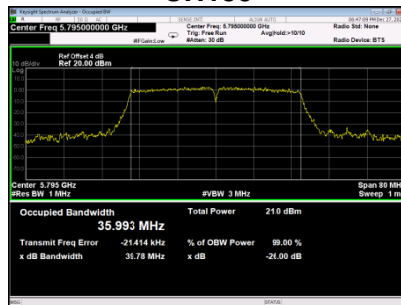


99% Emission Bandwidth

CH151



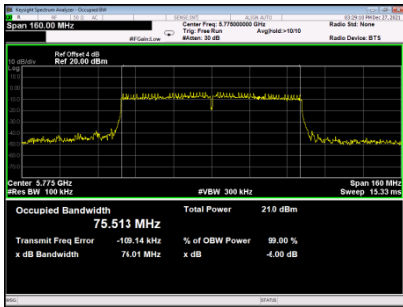
CH159



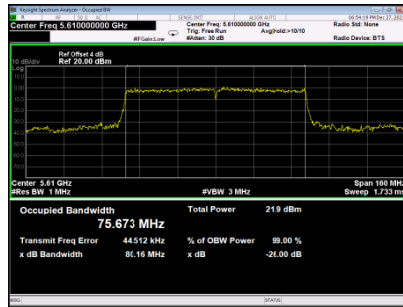
UNII-3_TX AC (VHT80) Mode

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Emission Bandwidth(MHz) | 6dB Bandwidth Min. Limit(kHz) | Result |
|---------|-----------------|----------------------|-----------------------------|-------------------------------|--------|
| 155 | 5775 | 76.01 | 75.673 | 500 | PASS |

**6 dB Bandwidth
CH155**



**99% Emission Bandwidth
CH155**



7 MAXIMUM OUTPUT POWER TEST

7.1 LIMIT

| FCC Part15, Subpart E (15.407)&RSS-247 | | | |
|--|----------------------|--|-----------------------|
| Section | Test Item | Limit | Frequency Range (MHz) |
| RSS-247 6.2.1.1 | EIRP Output Power | not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less | 5150-5250 |
| 15.407(a) | Maximum Output Power | AP device: 1 Watt (30dBm) Client device: 250mW (24dBm) | 5150-5250 |
| 15.407(a) RSS-247 6.2.4.1 | Maximum Output Power | 1 Watt (30dBm) | 5725-5850 |

Note:

- a. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- b. B is the 99% emission bandwidth in megahertz.

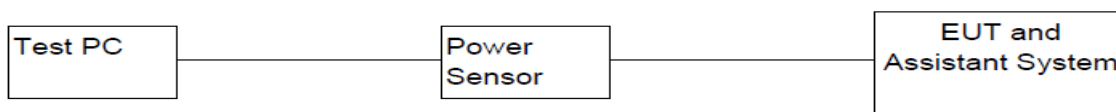
7.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- c. $EIRP \text{ Power} = \text{Output Power} + \text{Directional Gain}$
MIMO Directional Gain = Ant 1 Gain + Ant 2 Gain = 3dBi + 3dBi = 6.01dBi

7.3 MEASUREMENT INSTRUMENTS LIST

| Item | Equipment | Manufacturer | Model No. | Serial No. | Calibrated until |
|------|---------------|---------------|-------------|------------|------------------|
| 1 | Power Sensor | KEYSIGHT | U2021XA | MY55240009 | 05/24/2022 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Micable | C10-01-01-1 | 100309 | N/A |
| 4 | Test Software | KEYSIGHT | Power Panel | V3.11 | N/A |

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

UNII-1_TX A Mode_Ant 1 For FCC

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 36 | 5180 | 14.73 | 0.00 | 14.73 | 24.00 | 0.25 | PASS |
| 40 | 5200 | 14.54 | 0.00 | 14.54 | 24.00 | 0.25 | PASS |
| 48 | 5240 | 14.65 | 0.00 | 14.65 | 24.00 | 0.25 | PASS |

UNII-1_TX A Mode_Ant 2 For FCC

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 36 | 5180 | 14.60 | 0.00 | 14.60 | 24.00 | 0.25 | PASS |
| 40 | 5200 | 14.42 | 0.00 | 14.42 | 24.00 | 0.25 | PASS |
| 48 | 5240 | 14.57 | 0.00 | 14.57 | 24.00 | 0.25 | PASS |

UNII-1_TX A Mode_Ant 1 For IC

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | EIRP + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|--------------------------|------------------|----------------|--------|
| 36 | 5180 | 18.73 | 0.00 | 18.73 | 23.00 | 0.2 | PASS |
| 40 | 5200 | 18.54 | 0.00 | 18.54 | 23.00 | 0.2 | PASS |
| 48 | 5240 | 18.65 | 0.00 | 18.65 | 23.00 | 0.2 | PASS |

UNII-1_TX A Mode_Ant 2 For IC

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | EIRP + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|--------------------------|------------------|----------------|--------|
| 36 | 5180 | 18.60 | 0.00 | 18.60 | 23.00 | 0.2 | PASS |
| 40 | 5200 | 18.42 | 0.00 | 18.42 | 23.00 | 0.2 | PASS |
| 48 | 5240 | 18.57 | 0.00 | 18.57 | 23.00 | 0.2 | PASS |

UNII-2A_TX A Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 52 | 5260 | 14.74 | 0.00 | 14.74 | 24.00 | 0.25 | PASS |
| 60 | 5300 | 14.70 | 0.00 | 14.70 | 24.00 | 0.25 | PASS |
| 64 | 5320 | 14.42 | 0.00 | 14.42 | 24.00 | 0.25 | PASS |

UNII-2A_TX A Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 52 | 5260 | 14.68 | 0.00 | 14.68 | 24.00 | 0.25 | PASS |
| 60 | 5300 | 14.32 | 0.00 | 14.32 | 24.00 | 0.25 | PASS |
| 64 | 5320 | 14.44 | 0.00 | 14.44 | 24.00 | 0.25 | PASS |

UNII-2C_TX A Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 100 | 5500 | 14.46 | 0.00 | 14.46 | 24.00 | 0.25 | PASS |
| 120 | 5600 | 14.63 | 0.00 | 14.63 | 24.00 | 0.25 | PASS |
| 140 | 5700 | 14.78 | 0.00 | 14.78 | 24.00 | 0.25 | PASS |

UNII-2C_TX A Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 100 | 5500 | 14.65 | 0.00 | 14.65 | 24.00 | 0.25 | PASS |
| 120 | 5600 | 14.96 | 0.00 | 14.96 | 24.00 | 0.25 | PASS |
| 140 | 5700 | 14.85 | 0.00 | 14.85 | 24.00 | 0.25 | PASS |

| UNII-1_TX N (HT20) Mode _Ant 1 | | | | | | | |
|--------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 36 | 5180 | 12.93 | 0.00 | 12.93 | 24.00 | 0.25 | PASS |
| 40 | 5200 | 12.75 | 0.00 | 12.75 | 24.00 | 0.25 | PASS |
| 48 | 5240 | 12.81 | 0.00 | 12.81 | 24.00 | 0.25 | PASS |

| UNII-1_TX N (HT20) Mode _Ant 2 | | | | | | | |
|--------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 36 | 5180 | 12.86 | 0.00 | 12.86 | 24.00 | 0.25 | PASS |
| 40 | 5200 | 12.69 | 0.00 | 12.69 | 24.00 | 0.25 | PASS |
| 48 | 5240 | 12.73 | 0.00 | 12.73 | 24.00 | 0.25 | PASS |

| UNII-1_TX N (HT20) Mode _Total For FCC | | | | | |
|--|-----------------|--------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 36 | 5180 | 15.91 | 24.00 | 0.25 | PASS |
| 40 | 5200 | 15.73 | 24.00 | 0.25 | PASS |
| 48 | 5240 | 15.78 | 24.00 | 0.25 | PASS |

| UNII-1_TX N (HT20) Mode _Total For IC | | | | | |
|---------------------------------------|-----------------|------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | EIRP Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 36 | 5180 | 22.92 | 23.00 | 0.2 | PASS |
| 40 | 5200 | 22.74 | 23.00 | 0.2 | PASS |
| 48 | 5240 | 22.79 | 23.00 | 0.2 | PASS |

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=4dBi+4dBi=7.01dBi

UNII-2A_TX N (HT20) Mode _Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 52 | 5260 | 13.48 | 0.00 | 13.48 | 24.00 | 0.25 | PASS |
| 60 | 5300 | 13.84 | 0.00 | 13.84 | 24.00 | 0.25 | PASS |
| 64 | 5320 | 13.70 | 0.00 | 13.70 | 24.00 | 0.25 | PASS |

UNII-2A_TX N (HT20) Mode _Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 52 | 5260 | 13.70 | 0.00 | 13.70 | 24.00 | 0.25 | PASS |
| 60 | 5300 | 13.54 | 0.00 | 13.54 | 24.00 | 0.25 | PASS |
| 64 | 5320 | 13.73 | 0.00 | 13.73 | 24.00 | 0.25 | PASS |

UNII-2A_TX N (HT20) Mode _Total

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 52 | 5260 | 16.60 | 24.00 | 0.25 | PASS |
| 60 | 5300 | 16.70 | 24.00 | 0.25 | PASS |
| 64 | 5320 | 16.73 | 24.00 | 0.25 | PASS |

UNII-2C_TX N (HT20) Mode _Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 100 | 5500 | 13.91 | 0.00 | 13.91 | 24.00 | 0.25 | PASS |
| 120 | 5600 | 13.91 | 0.00 | 13.91 | 24.00 | 0.25 | PASS |
| 140 | 5700 | 13.68 | 0.00 | 13.68 | 24.00 | 0.25 | PASS |

UNII-2C_TX N (HT20) Mode _Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 100 | 5500 | 13.62 | 0.00 | 13.62 | 24.00 | 0.25 | PASS |
| 120 | 5600 | 13.61 | 0.00 | 13.61 | 24.00 | 0.25 | PASS |
| 140 | 5700 | 13.77 | 0.00 | 13.77 | 24.00 | 0.25 | PASS |

UNII-2C_TX N (HT20) Mode _Total

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 100 | 5500 | 16.78 | 24.00 | 0.25 | PASS |
| 120 | 5600 | 16.77 | 24.00 | 0.25 | PASS |
| 140 | 5700 | 16.74 | 24.00 | 0.25 | PASS |

UNII-1_TX N (HT40) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 38 | 5190 | 12.58 | 0.00 | 12.58 | 24.00 | 0.25 | PASS |
| 46 | 5230 | 12.61 | 0.00 | 12.61 | 24.00 | 0.25 | PASS |

UNII-1_TX N (HT40) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 38 | 5190 | 12.66 | 0.00 | 12.66 | 24.00 | 0.25 | PASS |
| 46 | 5230 | 12.75 | 0.00 | 12.75 | 24.00 | 0.25 | PASS |

UNII-1_TX N (HT40) Mode_Total For FCC

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 38 | 5190 | 15.63 | 24.00 | 0.25 | PASS |
| 46 | 5230 | 15.69 | 24.00 | 0.25 | PASS |

UNII-1_TX N (HT40) Mode_Total For IC

| Channel | Frequency (MHz) | EIRP Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|------------------|------------------|----------------|--------|
| 38 | 5190 | 22.64 | 23.00 | 0.2 | PASS |
| 46 | 5230 | 22.70 | 23.00 | 0.2 | PASS |

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=4dBi+4dBi=7.01dBi

UNII-2A_TX N (HT40) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 54 | 5270 | 13.67 | 0.00 | 13.67 | 24.00 | 0.25 | PASS |
| 62 | 5310 | 13.45 | 0.00 | 13.45 | 24.00 | 0.25 | PASS |

UNII-2A_TX N (HT40) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 54 | 5270 | 13.42 | 0.00 | 13.42 | 24.00 | 0.25 | PASS |
| 62 | 5310 | 13.43 | 0.00 | 13.43 | 24.00 | 0.25 | PASS |

UNII-2A_TX N (HT40) Mode_Total For FCC

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 54 | 5270 | 16.56 | 24.00 | 0.25 | PASS |
| 62 | 5310 | 16.45 | 24.00 | 0.25 | PASS |

UNII-2C_TX N (HT40) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 102 | 5510 | 13.77 | 0.00 | 13.77 | 24.00 | 0.25 | PASS |
| 118 | 5590 | 13.46 | 0.00 | 13.46 | 24.00 | 0.25 | PASS |
| 134 | 5670 | 13.57 | 0.00 | 13.57 | 24.00 | 0.25 | PASS |

UNII-2C_TX N (HT40) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 102 | 5510 | 13.45 | 0.00 | 13.45 | 24.00 | 0.25 | PASS |
| 118 | 5590 | 13.68 | 0.00 | 13.68 | 24.00 | 0.25 | PASS |
| 134 | 5670 | 13.82 | 0.00 | 13.82 | 24.00 | 0.25 | PASS |

UNII-2C_TX N (HT40) Mode_Total For FCC

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 102 | 5510 | 16.62 | 24.00 | 0.25 | PASS |
| 118 | 5590 | 16.58 | 24.00 | 0.25 | PASS |
| 134 | 5670 | 16.71 | 24.00 | 0.25 | PASS |

UNII-3_TX A Mode_Ant1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 149 | 5745 | 14.58 | 0 | 14.58 | 30.00 | 1.00 | PASS |
| 157 | 5785 | 14.60 | 0 | 14.60 | 30.00 | 1.00 | PASS |
| 165 | 5825 | 14.74 | 0 | 14.74 | 30.00 | 1.00 | PASS |

UNII-3_TX A Mode_Ant2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 149 | 5745 | 14.49 | 0 | 14.49 | 30.00 | 1.00 | PASS |
| 157 | 5785 | 14.55 | 0 | 14.55 | 30.00 | 1.00 | PASS |
| 165 | 5825 | 14.58 | 0 | 14.58 | 30.00 | 1.00 | PASS |

UNII-3_TX N (HT20) Mode_Ant1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 149 | 5745 | 13.92 | 0.00 | 13.92 | 30.00 | 1.00 | PASS |
| 157 | 5785 | 13.81 | 0.00 | 13.81 | 30.00 | 1.00 | PASS |
| 165 | 5825 | 13.52 | 0.00 | 13.52 | 30.00 | 1.00 | PASS |

UNII-3_TX N (HT20) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 149 | 5745 | 13.74 | 0.00 | 13.74 | 30.00 | 1.00 | PASS |
| 157 | 5785 | 13.84 | 0.00 | 13.84 | 30.00 | 1.00 | PASS |
| 165 | 5825 | 13.80 | 0.00 | 13.80 | 30.00 | 1.00 | PASS |

UNII-3_TX N (HT20) Mode_Total

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 149 | 5745 | 16.84 | 30.00 | 1.00 | PASS |
| 157 | 5785 | 16.84 | 30.00 | 1.00 | PASS |
| 165 | 5825 | 16.67 | 30.00 | 1.00 | PASS |

UNII-3_TX N (HT40) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 151 | 5755 | 13.67 | 0.00 | 13.67 | 30.00 | 1.00 | PASS |
| 159 | 5795 | 13.74 | 0.00 | 13.74 | 30.00 | 1.00 | PASS |

UNII-3_TX N (HT40) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 151 | 5755 | 13.68 | 0.00 | 13.68 | 30.00 | 1.00 | PASS |
| 159 | 5795 | 13.66 | 0.00 | 13.66 | 30.00 | 1.00 | PASS |

UNII-3_TX N (HT40) Mode_Total

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 151 | 5755 | 16.70 | 30.00 | 1.00 | PASS |
| 159 | 5795 | 16.71 | 30.00 | 1.00 | PASS |

| UNII-1_TX AC (VHT20) Mode_Ant 1 | | | | | | | |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 36 | 5180 | 12.65 | 0.00 | 12.65 | 24.00 | 0.25 | PASS |
| 40 | 5200 | 12.69 | 0.00 | 12.69 | 24.00 | 0.25 | PASS |
| 48 | 5240 | 12.84 | 0.00 | 12.84 | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT20) Mode_Ant 2 | | | | | | | |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 36 | 5180 | 12.76 | 0.00 | 12.76 | 24.00 | 0.25 | PASS |
| 40 | 5200 | 12.66 | 0.00 | 12.66 | 24.00 | 0.25 | PASS |
| 48 | 5240 | 12.63 | 0.00 | 12.63 | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT20) Mode_Total For FCC | | | | | |
|---|-----------------|--------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 36 | 5180 | 15.72 | 24.00 | 0.25 | PASS |
| 40 | 5200 | 15.69 | 24.00 | 0.25 | PASS |
| 48 | 5240 | 15.75 | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT20) Mode_Total For IC | | | | | |
|--|-----------------|------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | EIRP Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 36 | 5180 | 22.73 | 23.00 | 0.2 | PASS |
| 40 | 5200 | 22.70 | 23.00 | 0.2 | PASS |
| 48 | 5240 | 22.76 | 23.00 | 0.2 | PASS |

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=4dBi+4dBi=7.01dBi

UNII-2A_TX AC (VHT20) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 52 | 5260 | 12.80 | 0.00 | 12.80 | 24.00 | 0.25 | PASS |
| 60 | 5300 | 12.69 | 0.00 | 12.69 | 24.00 | 0.25 | PASS |
| 64 | 5320 | 12.45 | 0.00 | 12.45 | 24.00 | 0.25 | PASS |

UNII-2A_TX AC (VHT20) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 52 | 5260 | 12.80 | 0.00 | 12.80 | 24.00 | 0.25 | PASS |
| 60 | 5300 | 12.92 | 0.00 | 12.92 | 24.00 | 0.25 | PASS |
| 64 | 5320 | 12.73 | 0.00 | 12.73 | 24.00 | 0.25 | PASS |

UNII-2A_TX AC (VHT20) Mode_Total

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 52 | 5260 | 15.81 | 24.00 | 0.25 | PASS |
| 60 | 5300 | 15.82 | 24.00 | 0.25 | PASS |
| 64 | 5320 | 15.60 | 24.00 | 0.25 | PASS |

UNII-2C_TX AC (VHT20) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 100 | 5500 | 12.52 | 0.00 | 12.52 | 24.00 | 0.25 | PASS |
| 120 | 5600 | 12.56 | 0.00 | 12.56 | 24.00 | 0.25 | PASS |
| 140 | 5700 | 12.68 | 0.00 | 12.68 | 24.00 | 0.25 | PASS |

UNII-2C_TX AC (VHT20) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 100 | 5500 | 12.60 | 0.00 | 12.60 | 24.00 | 0.25 | PASS |
| 120 | 5600 | 12.59 | 0.00 | 12.59 | 24.00 | 0.25 | PASS |
| 140 | 5700 | 12.85 | 0.00 | 12.85 | 24.00 | 0.25 | PASS |

UNII-2C_TX AC (VHT20) Mode_Total

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 100 | 5500 | 15.57 | 24.00 | 0.25 | PASS |
| 120 | 5600 | 15.59 | 24.00 | 0.25 | PASS |
| 140 | 5700 | 15.78 | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT40) Mode_Ant 1 | | | | | | | |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 38 | 5190 | 12.90 | 0.00 | 12.90 | 24.00 | 0.25 | PASS |
| 46 | 5230 | 12.95 | 0.00 | 12.95 | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT40) Mode_Ant 2 | | | | | | | |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 38 | 5190 | 12.57 | 0.00 | 12.57 | 24.00 | 0.25 | PASS |
| 46 | 5230 | 12.82 | 0.00 | 12.82 | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT40) Mode_Total For FCC | | | | | | |
|---|-----------------|--------------------|--|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | | Max. Limit (dBm) | Max. Limit (W) | Result |
| 38 | 5190 | 15.75 | | 24.00 | 0.25 | PASS |
| 46 | 5230 | 15.90 | | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT40) Mode_Total For IC | | | | | | |
|--|-----------------|-------------------|--|------------------|----------------|--------|
| Channel | Frequency (MHz) | EIRP Power (dBm)) | | Max. Limit (dBm) | Max. Limit (W) | Result |
| 38 | 5190 | 22.76 | | 23.00 | 0.2 | PASS |
| 46 | 5230 | 22.91 | | 23.00 | 0.2 | PASS |

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=4dBi+4dBi=7.01dBi

UNII-2A_TX AC (VHT40) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 54 | 5270 | 12.56 | 0.00 | 12.56 | 24.00 | 0.25 | PASS |
| 62 | 5310 | 12.48 | 0.00 | 12.48 | 24.00 | 0.25 | PASS |

UNII-2A_TX AC (VHT40) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 54 | 5270 | 12.71 | 0.00 | 12.71 | 24.00 | 0.25 | PASS |
| 62 | 5310 | 12.39 | 0.00 | 12.39 | 24.00 | 0.25 | PASS |

UNII-2A_TX AC (VHT40) Mode_Total For FCC

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 54 | 5270 | 15.65 | 24.00 | 0.25 | PASS |
| 62 | 5310 | 15.45 | 24.00 | 0.25 | PASS |

UNII-2C_TX AC (VHT40) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 102 | 5510 | 12.53 | 0.00 | 12.53 | 24.00 | 0.25 | PASS |
| 118 | 5590 | 12.86 | 0.00 | 12.86 | 24.00 | 0.25 | PASS |
| 134 | 5670 | 12.57 | 0.00 | 12.57 | 24.00 | 0.25 | PASS |

UNII-2C_TX AC (VHT40) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 102 | 5510 | 12.78 | 0.00 | 12.78 | 24.00 | 0.25 | PASS |
| 118 | 5590 | 12.91 | 0.00 | 12.91 | 24.00 | 0.25 | PASS |
| 134 | 5670 | 12.69 | 0.00 | 12.69 | 24.00 | 0.25 | PASS |

UNII-2C_TX AC (VHT40) Mode_Total For FCC

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 102 | 5510 | 15.67 | 24.00 | 0.25 | PASS |
| 118 | 5590 | 15.90 | 24.00 | 0.25 | PASS |
| 134 | 5670 | 15.64 | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT80) Mode_Ant 1 | | | | | | | |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 42 | 5210 | 12.75 | 0.00 | 12.75 | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT80) Mode_Ant 2 | | | | | | | |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 42 | 5210 | 12.59 | 0.00 | 12.59 | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT80) Mode_Total For FCC | | | | | |
|---|-----------------|--------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 42 | 5210 | 15.68 | 24.00 | 0.25 | PASS |

| UNII-1_TX AC (VHT80) Mode_Total For IC | | | | | |
|--|-----------------|------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | EIRP Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 42 | 5210 | 22.69 | 23.00 | 0.2 | PASS |

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=4dBi+4dBi=7.01dBi

UNII-2A_TX AC (VHT80) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 58 | 5290 | 12.76 | 0.00 | 12.76 | 24.00 | 0.25 | PASS |

UNII-2A_TX AC (VHT80) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 58 | 5290 | 12.47 | 0.00 | 12.47 | 24.00 | 0.25 | PASS |

UNII-2A_TX AC (VHT80) Mode_Total For FCC

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 58 | 5290 | 15.63 | 24.00 | 0.25 | PASS |

UNII-2C_TX AC (VHT80) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 106 | 5530 | 12.37 | 0.00 | 12.37 | 24.00 | 0.25 | PASS |
| 122 | 5610 | 12.57 | 0.00 | 12.57 | 24.00 | 0.25 | PASS |

UNII-2C_TX AC (VHT80) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 106 | 5530 | 12.51 | 0.00 | 12.51 | 24.00 | 0.25 | PASS |
| 122 | 5610 | 12.56 | 0.00 | 12.56 | 24.00 | 0.25 | PASS |

UNII-2C_TX AC (VHT80) Mode_Total For FCC

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 106 | 5530 | 15.45 | 24.00 | 0.25 | PASS |
| 122 | 5610 | 15.58 | 24.00 | 0.25 | PASS |

UNII-3_TX AC (VHT20) Mode_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 149 | 5745 | 12.71 | 0.00 | 12.71 | 30.00 | 1.00 | PASS |
| 157 | 5785 | 12.72 | 0.00 | 12.72 | 30.00 | 1.00 | PASS |
| 165 | 5825 | 12.66 | 0.00 | 12.66 | 30.00 | 1.00 | PASS |

UNII-3_TX AC (VHT20) Mode_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 149 | 5745 | 12.61 | 0.00 | 12.61 | 30.00 | 1.00 | PASS |
| 157 | 5785 | 12.79 | 0.00 | 12.79 | 30.00 | 1.00 | PASS |
| 165 | 5825 | 12.43 | 0.00 | 12.43 | 30.00 | 1.00 | PASS |

UNII-3_TX AC (VHT20) Mode_Total

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 149 | 5745 | 15.67 | 30.00 | 1.00 | PASS |
| 157 | 5785 | 15.77 | 30.00 | 1.00 | PASS |
| 165 | 5825 | 15.56 | 30.00 | 1.00 | PASS |

| UNII-3_TX AC (VHT40) Mode_Ant 1 | | | | | | | |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 151 | 5755 | 12.69 | 0.00 | 12.69 | 30.00 | 1.00 | PASS |
| 159 | 5795 | 12.73 | 0.00 | 12.73 | 30.00 | 1.00 | PASS |

| UNII-3_TX AC (VHT40) Mode_Ant 2 | | | | | | | |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 151 | 5755 | 12.53 | 0.00 | 12.53 | 30.00 | 1.00 | PASS |
| 159 | 5795 | 12.61 | 0.00 | 12.61 | 30.00 | 1.00 | PASS |

| UNII-3_TX AC (VHT40) Mode_Total | | | | | | |
|---------------------------------|-----------------|--------------------|--|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | | Max. Limit (dBm) | Max. Limit (W) | Result |
| 151 | 5755 | 15.62 | | 30.00 | 1.00 | PASS |
| 159 | 5795 | 15.68 | | 30.00 | 1.00 | PASS |

| UNII-3_TX AC (VHT80) Mode_Ant 1 | | | | | | | |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 155 | 5775 | 12.82 | 0.00 | 12.82 | 30.00 | 1.00 | PASS |

| UNII-3_TX AC (VHT80) Mode_Ant2 | | | | | | | |
|--------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 155 | 5775 | 12.63 | 0.00 | 12.63 | 30.00 | 1.00 | PASS |

| UNII-3_TX AC (VHT80) Mode_Total | | | | | |
|---------------------------------|-----------------|--------------------|------------------|----------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 155 | 5775 | 15.74 | 30.00 | 1.00 | PASS |

8 POWER SPECTRAL DENSITY TEST

8.1 LIMIT

| FCC Part15, Subpart E (15.407)&RSS-247 | | | |
|--|-----------------------------|--|-----------------------|
| Section | Test Item | Limit | Frequency Range (MHz) |
| RSS-247 6.2.1.2 | EIRP Power Spectral Density | 10dBm/MHz | 5150-5250 |
| 15.407(a) | Power Spectral Density | AP device:17dBm/MHz Client device:11dBm/MHz | 5150-5250 |
| 15.407(a) RSS-247 6.2.4.2 | Power Spectral Density | 30dBm/500kHz | 5725-5850 |

8.2 TEST PROCEDURE AND SETTING

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

| Spectrum Parameter | Setting |
|--------------------|--|
| Attenuation | Auto |
| Span Frequency | Encompass the entire emissions bandwidth (EBW) of the signal |
| RBW | = 1MHz. |
| VBW | ≥ 3MHz. |
| Detector | RMS |
| Trace average | 100 trace |
| Sweep Time | Auto |

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
- The value measured with RBW=1MHz is to be added with $10\log(500\text{kHz}/1\text{MHz})$ which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.
- EIRP Power Spectral Density = Power Spectral Density+Antenna Gain
MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=4dBi+4dBi=7.01dBi

8.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2022/05/28 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

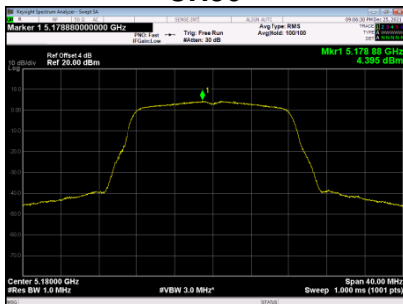
UNII-1_TX A Mode_Ant 1 For FCC

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 36 | 5180 | 4.395 | 0.00 | 4.395 | 11.00 | PASS |
| 40 | 5200 | 4.405 | 0.00 | 4.405 | 11.00 | PASS |
| 48 | 5240 | 4.426 | 0.00 | 4.426 | 11.00 | PASS |

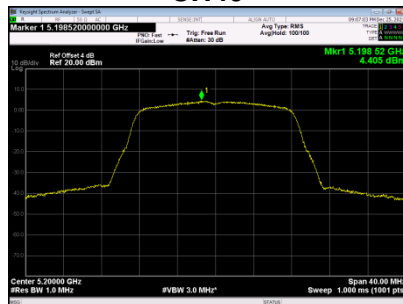
UNII-1_TX A Mode_Ant 1 For IC

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | EIRP Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|---|----------------------|--------|
| 36 | 5180 | 8.395 | 0.00 | 8.395 | 10.00 | PASS |
| 40 | 5200 | 8.405 | 0.00 | 8.405 | 10.00 | PASS |
| 48 | 5240 | 8.426 | 0.00 | 8.426 | 10.00 | PASS |

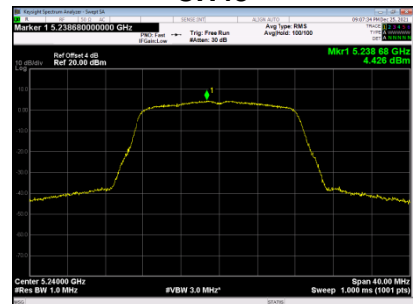
CH36



CH40



CH48



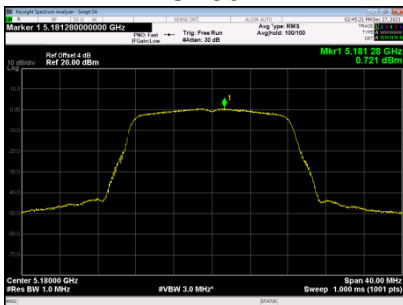
UNII-1_TX A Mode_Ant2 For FCC

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 36 | 5180 | 0.721 | 0.00 | 0.721 | 11.00 | PASS |
| 40 | 5200 | 0.730 | 0.00 | 0.730 | 11.00 | PASS |
| 48 | 5240 | 1.254 | 0.00 | 1.254 | 11.00 | PASS |

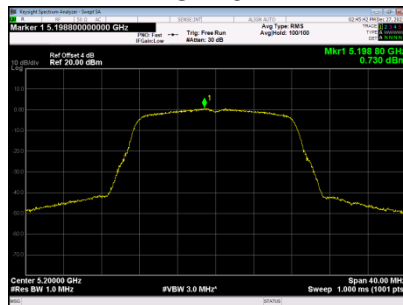
UNII-1_TX A Mode_Ant2 For IC

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | EIRP Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|---|----------------------|--------|
| 36 | 5180 | 4.721 | 0.00 | 4.721 | 10.00 | PASS |
| 40 | 5200 | 4.730 | 0.00 | 4.730 | 10.00 | PASS |
| 48 | 5240 | 5.254 | 0.00 | 5.254 | 10.00 | PASS |

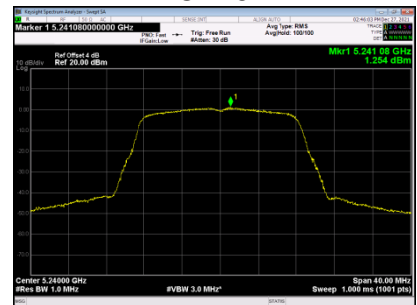
CH36



CH40



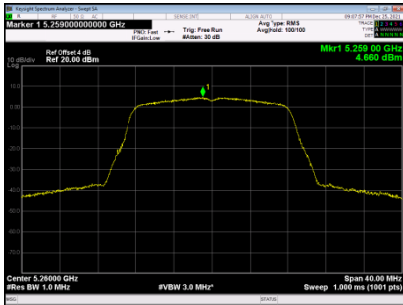
CH48



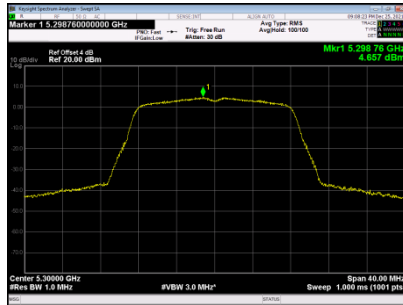
UNII-2A_TX A Mode_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 52 | 5260 | 4.660 | 0.00 | 4.660 | 11.00 | PASS |
| 60 | 5300 | 4.657 | 0.00 | 4.657 | 11.00 | PASS |
| 64 | 5320 | 4.280 | 0.00 | 4.280 | 11.00 | PASS |

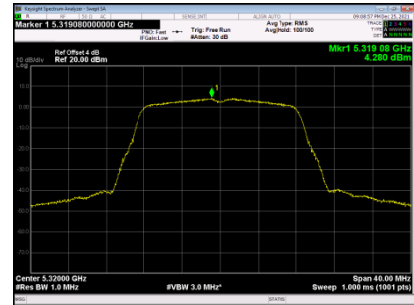
CH52



CH60



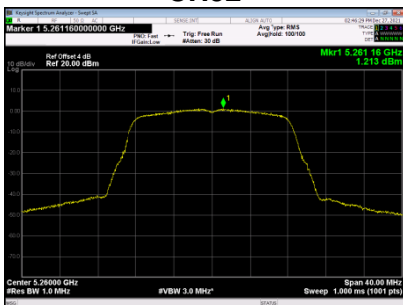
CH64



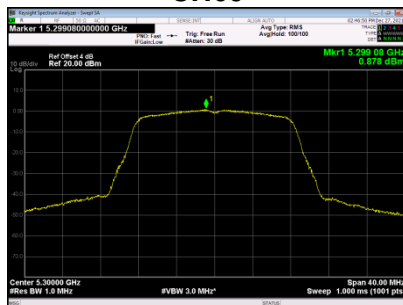
UNII-2A_TX A Mode_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 52 | 5260 | 1.213 | 0.00 | 1.213 | 11.00 | PASS |
| 60 | 5300 | 0.878 | 0.00 | 0.878 | 11.00 | PASS |
| 64 | 5320 | 0.372 | 0.00 | 0.372 | 11.00 | PASS |

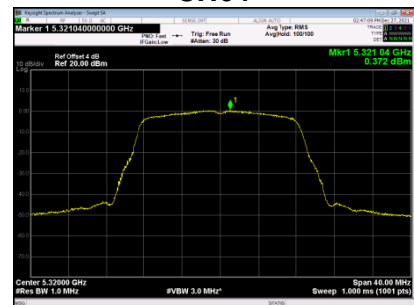
CH52



CH60



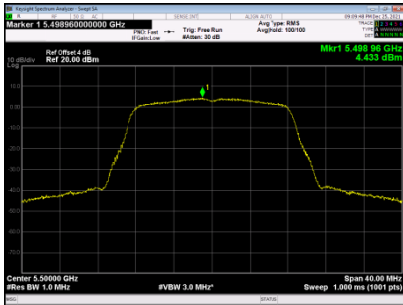
CH64



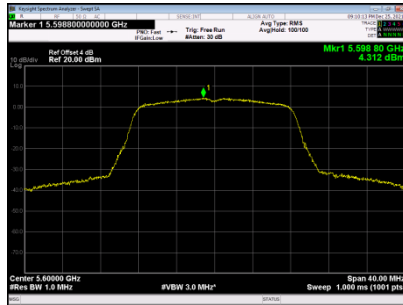
UNII-2C_TX A Mode_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 100 | 5500 | 4.433 | 0.00 | 4.433 | 11.00 | PASS |
| 120 | 5600 | 4.312 | 0.00 | 4.312 | 11.00 | PASS |
| 140 | 5700 | 4.719 | 0.00 | 4.719 | 11.00 | PASS |

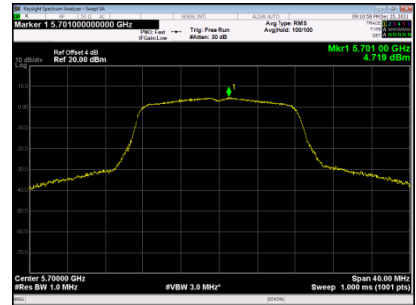
CH100



CH120



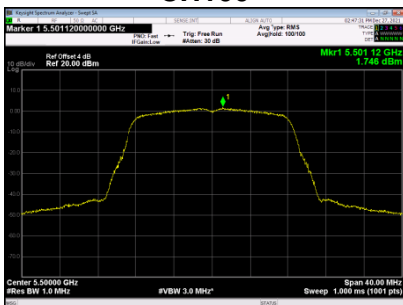
CH140



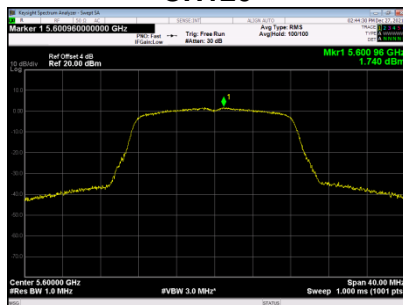
UNII-2C_TX A Mode_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 100 | 5500 | 1.746 | 0.00 | 1.746 | 11.00 | PASS |
| 120 | 5600 | 1.740 | 0.00 | 1.740 | 11.00 | PASS |
| 140 | 5700 | 1.015 | 0.00 | 1.015 | 11.00 | PASS |

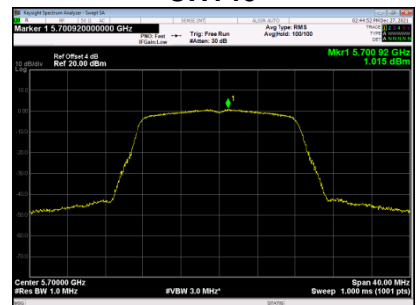
CH100



CH120



CH140



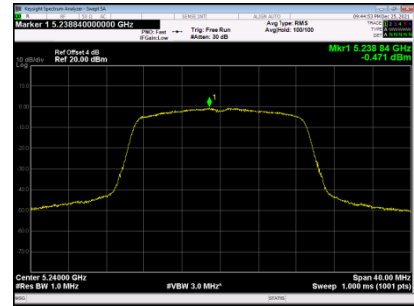
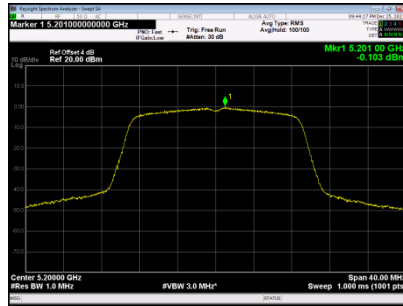
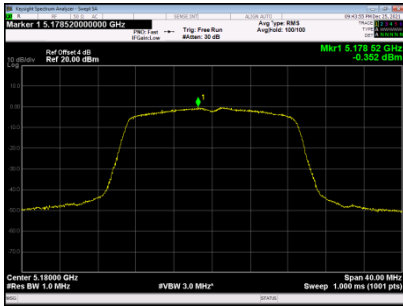
UNII-1_TX N (HT20) Mode_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 36 | 5180 | -0.352 | 0.00 | -0.352 | 11.00 | PASS |
| 40 | 5200 | -0.103 | 0.00 | -0.103 | 11.00 | PASS |
| 48 | 5240 | -0.471 | 0.00 | -0.471 | 11.00 | PASS |

CH36

CH40

CH48



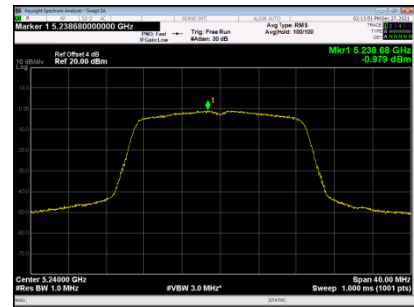
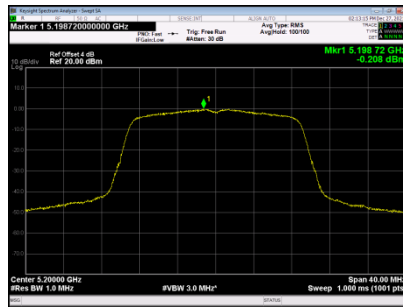
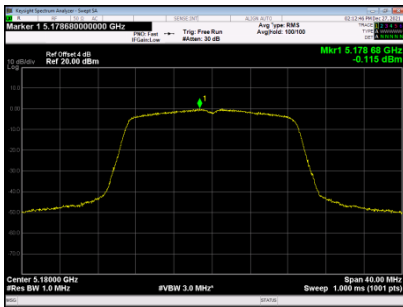
UNII-1_TX N (HT20) Mode_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 36 | 5180 | -0.115 | 0.00 | -0.115 | 11.00 | PASS |
| 40 | 5200 | -0.208 | 0.00 | -0.208 | 11.00 | PASS |
| 48 | 5240 | -0.979 | 0.00 | -0.979 | 11.00 | PASS |

CH36

CH40

CH48



UNII-1_TX N (HT20) Mode_Total For FCC

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 36 | 5180 | 2.778 | 11.00 | PASS |
| 40 | 5200 | 2.855 | 11.00 | PASS |
| 48 | 5240 | 2.293 | 11.00 | PASS |

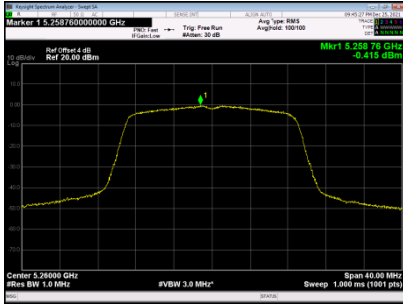
UNII-1_TX N (HT20) Mode_Total For IC

| Channel | Frequency (MHz) | EIRP Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|---------------------------------------|----------------------|--------|
| 36 | 5180 | 9.788 | 10.00 | PASS |
| 40 | 5200 | 9.865 | 10.00 | PASS |
| 48 | 5240 | 9.303 | 10.00 | PASS |

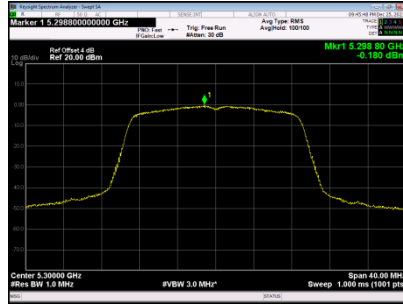
UNII-2A_TX N (HT20) Mode_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 52 | 5260 | -0.415 | 0.00 | -0.415 | 11.00 | PASS |
| 60 | 5300 | -0.180 | 0.00 | -0.180 | 11.00 | PASS |
| 64 | 5320 | -0.598 | 0.00 | -0.598 | 11.00 | PASS |

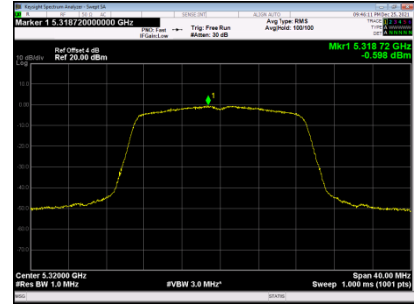
CH52



CH60



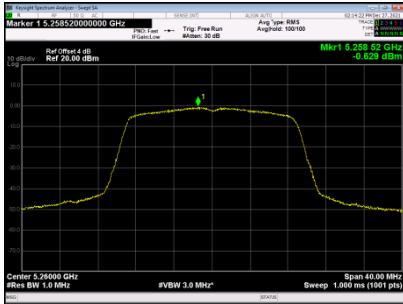
CH64



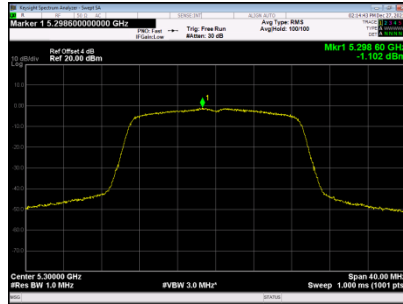
UNII-2A_TX N (HT20) Mode_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 52 | 5260 | -0.629 | 0.00 | -0.629 | 11.00 | PASS |
| 60 | 5300 | -1.102 | 0.00 | -1.102 | 11.00 | PASS |
| 64 | 5320 | -1.712 | 0.00 | -1.712 | 11.00 | PASS |

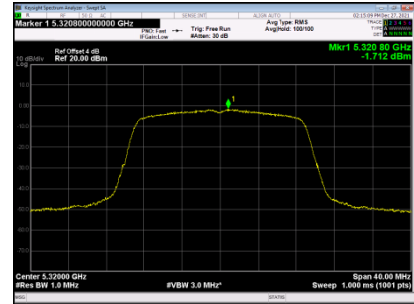
CH52



CH60



CH64



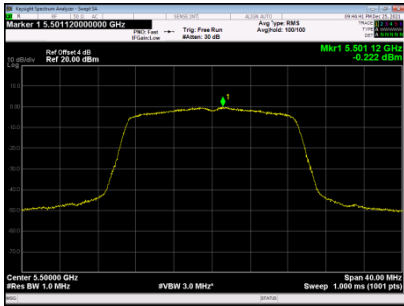
UNII-2A_TX N (HT20) Mode_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 52 | 5260 | 2.490 | 11.00 | PASS |
| 60 | 5300 | 2.394 | 11.00 | PASS |
| 64 | 5320 | 1.891 | 11.00 | PASS |

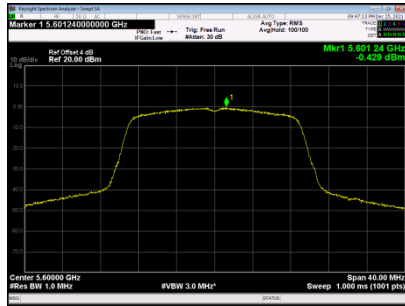
UNII-2C_TX N (HT20) Mode_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 100 | 5500 | -0.222 | 0.00 | -0.222 | 11.00 | PASS |
| 120 | 5600 | -0.429 | 0.00 | -0.429 | 11.00 | PASS |
| 140 | 5700 | -0.760 | 0.00 | -0.760 | 11.00 | PASS |

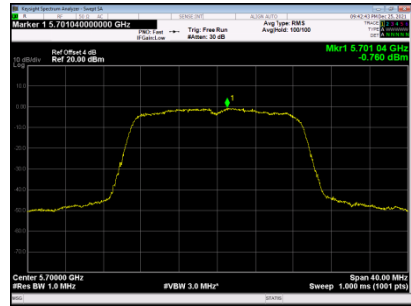
CH100



CH120



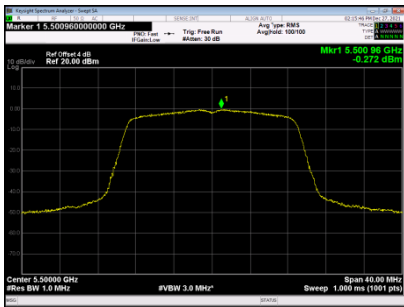
CH140



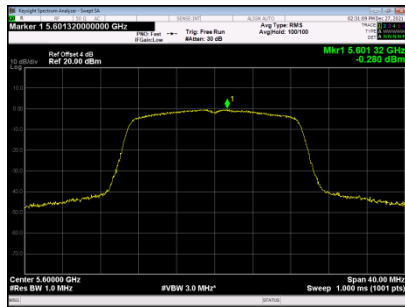
UNII-2C_TX N (HT20) Mode_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 100 | 5500 | -0.272 | 0.00 | -0.272 | 11.00 | PASS |
| 120 | 5600 | -0.280 | 0.00 | -0.280 | 11.00 | PASS |
| 140 | 5700 | -0.408 | 0.00 | -0.408 | 11.00 | PASS |

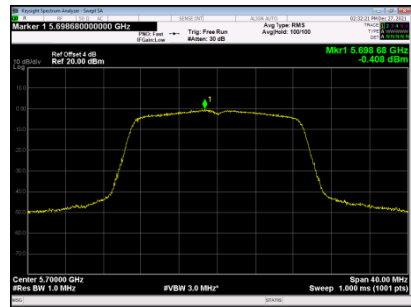
CH100



CH120



CH140



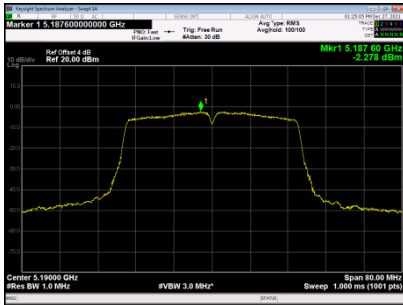
UNII-2C_TX N (HT20) Mode_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 100 | 5500 | 2.763 | 11.00 | PASS |
| 120 | 5600 | 2.656 | 11.00 | PASS |
| 140 | 5700 | 2.430 | 11.00 | PASS |

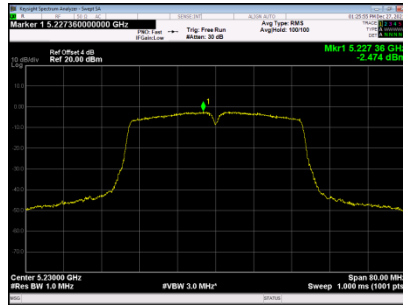
UNII-1_TX N (HT40) Mode_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 38 | 5190 | -2.278 | 0.00 | -2.278 | 11.00 | PASS |
| 46 | 5230 | -2.474 | 0.00 | -2.474 | 11.00 | PASS |

CH38



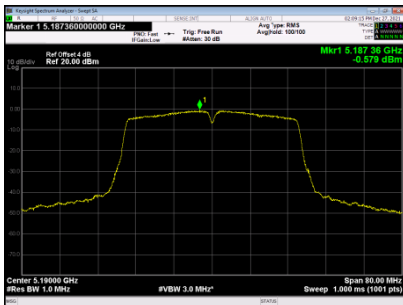
CH46



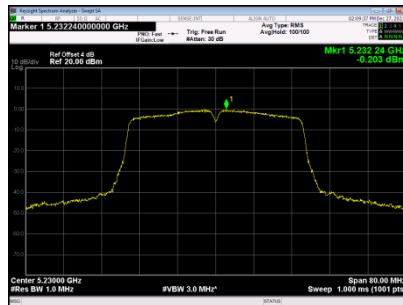
UNII-1_TX N (HT40) Mode_Ant2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 38 | 5190 | -0.579 | 0.00 | -0.579 | 11.00 | PASS |
| 46 | 5230 | -0.203 | 0.00 | -0.203 | 11.00 | PASS |

CH38



CH46



UNII-1_TX N (HT40) Mode_Total For FCC

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 38 | 5190 | 1.664 | 11.00 | PASS |
| 46 | 5230 | 1.819 | 11.00 | PASS |

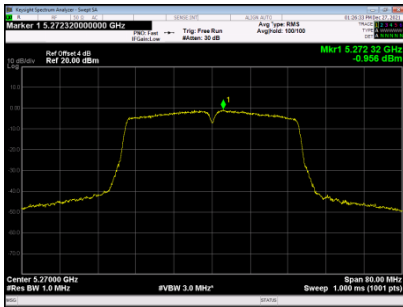
UNII-1_TX N (HT40) Mode_Total For IC

| Channel | Frequency (MHz) | EIRP Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|---------------------------------------|----------------------|--------|
| 38 | 5190 | 8.674 | 10.00 | PASS |
| 46 | 5230 | 8.829 | 10.00 | PASS |

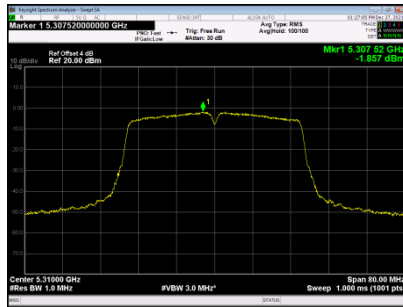
UNII-2A_TX N (HT40) Mode_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 54 | 5270 | -0.956 | 0.00 | -0.956 | 11.00 | PASS |
| 62 | 5310 | -1.857 | 0.00 | -1.857 | 11.00 | PASS |

CH54



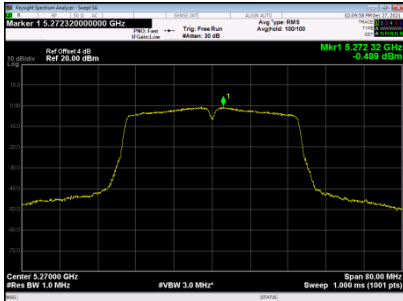
CH62



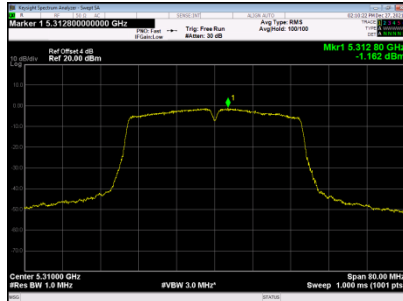
UNII-2A_TX N (HT40) Mode_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|--|----------------------|--------|
| 54 | 5270 | -0.489 | 0.00 | -0.489 | 11.00 | PASS |
| 62 | 5310 | -1.162 | 0.00 | -1.162 | 11.00 | PASS |

CH54



CH62



UNII-2A_TX N (HT40) Mode_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 54 | 5270 | 2.294 | 11.00 | PASS |
| 62 | 5310 | 1.515 | 11.00 | PASS |