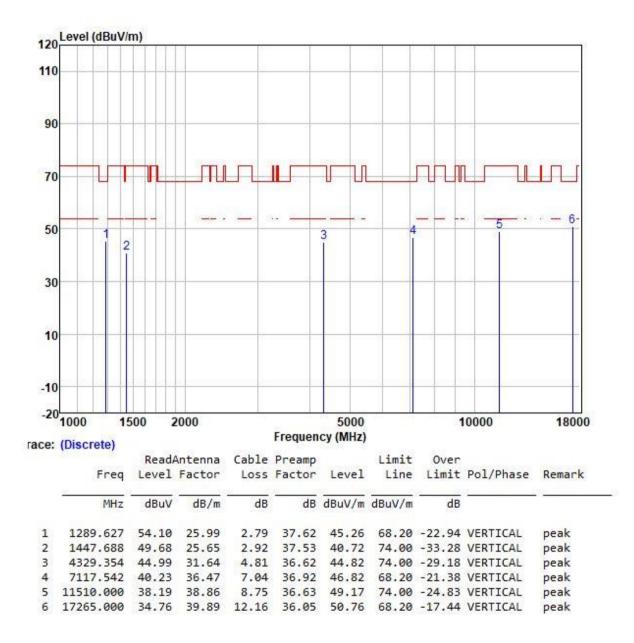


EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 83 of 217

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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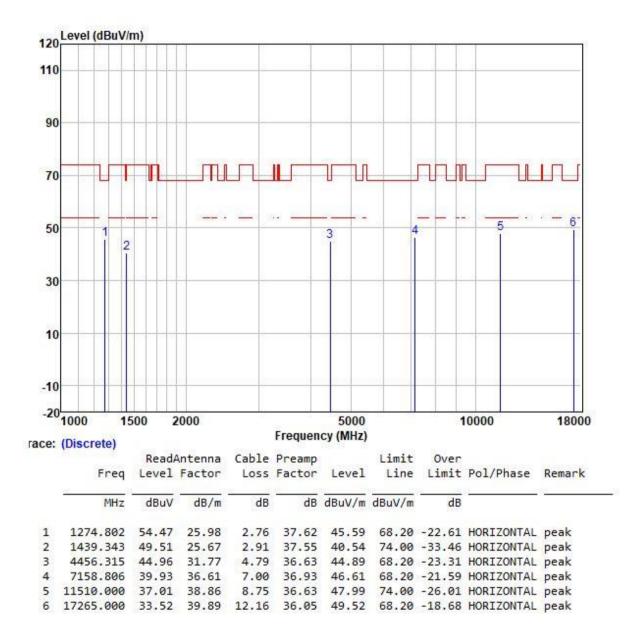
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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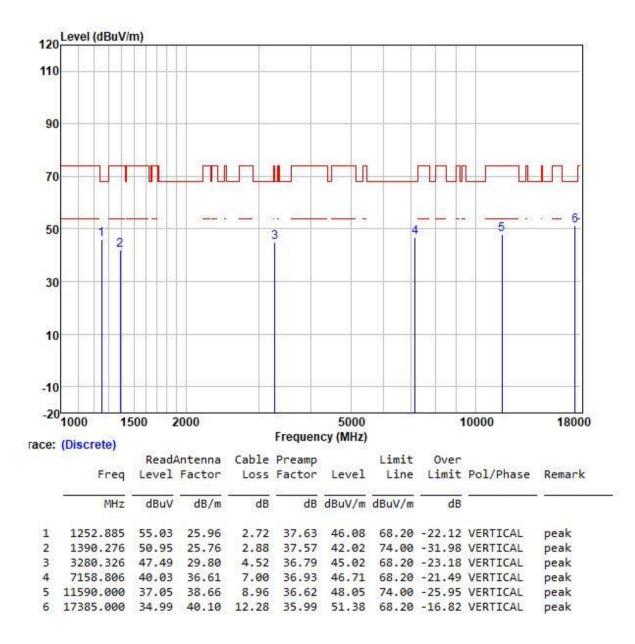
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 85 of 217

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High





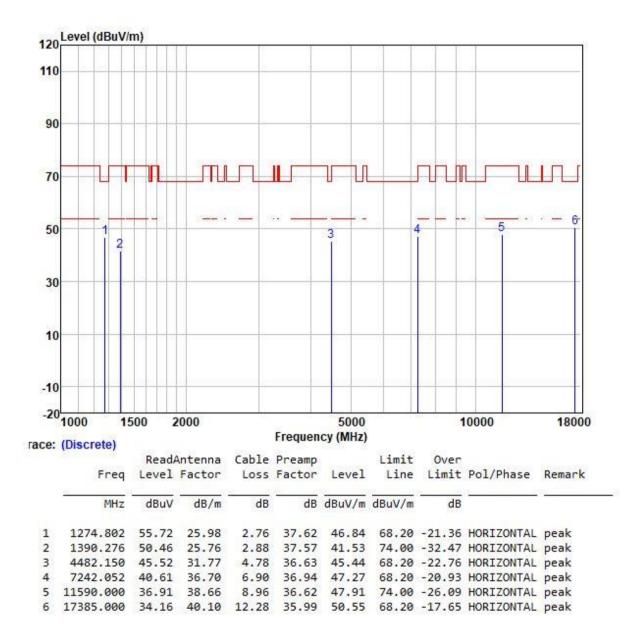
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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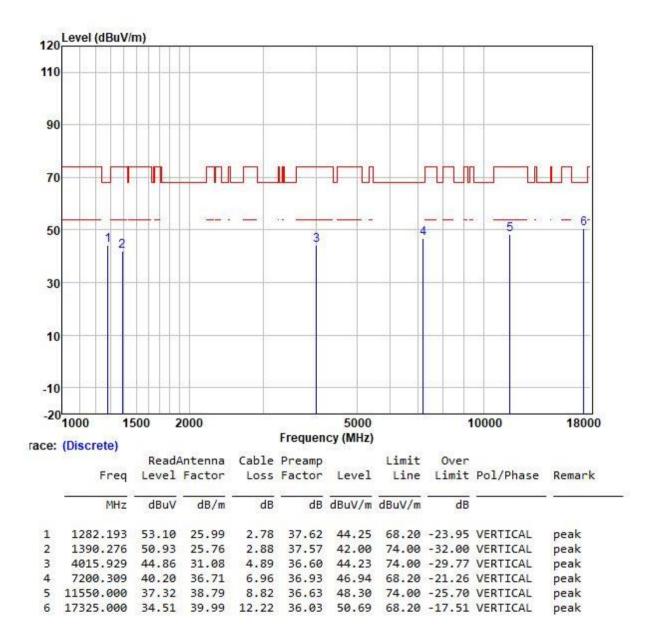
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz





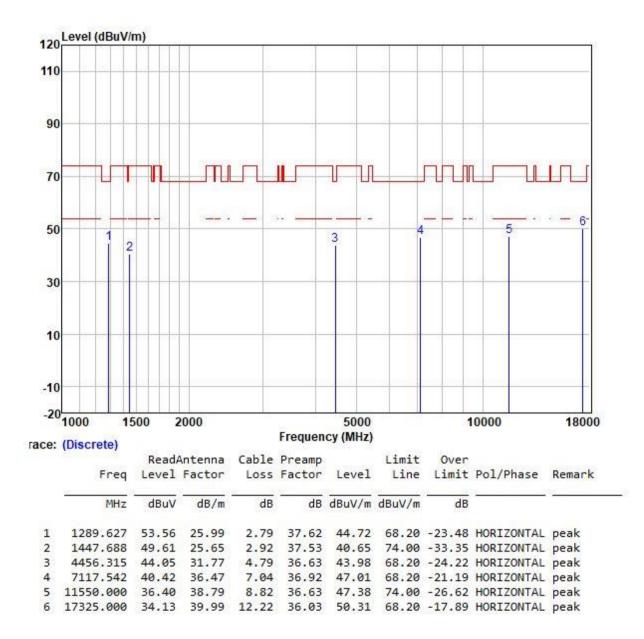
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz





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7.10 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15,209 & Subpart E 15,407(b) Test Requirement Test Method: KDB 789033 D02 II G

Limit:

| Frequency (MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|-----------------|----------------------------------|---------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR guasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 18.2 °C Humidity: 45.8 % RH

Atmospheric Pressure: 1021 mbar



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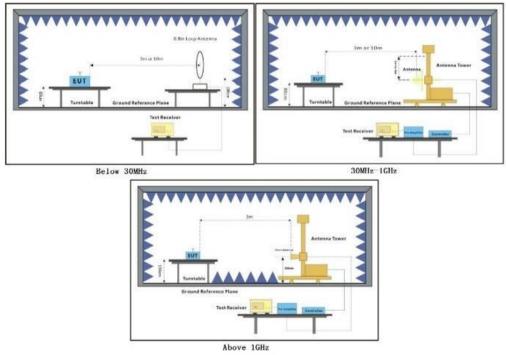


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7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 05 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report. |
| Final test | 06 | TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report. |
| Final test | 07 | TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report. |
| Final test | 08 | TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report. |

7.10.3 Test Setup Diagram





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7.10.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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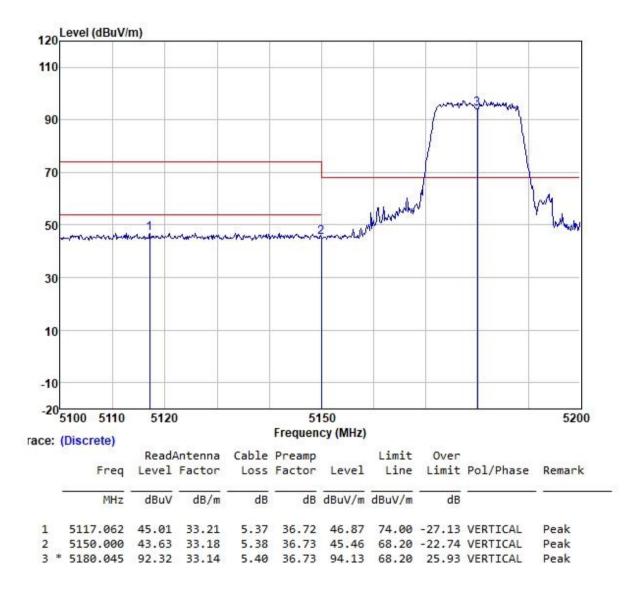
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





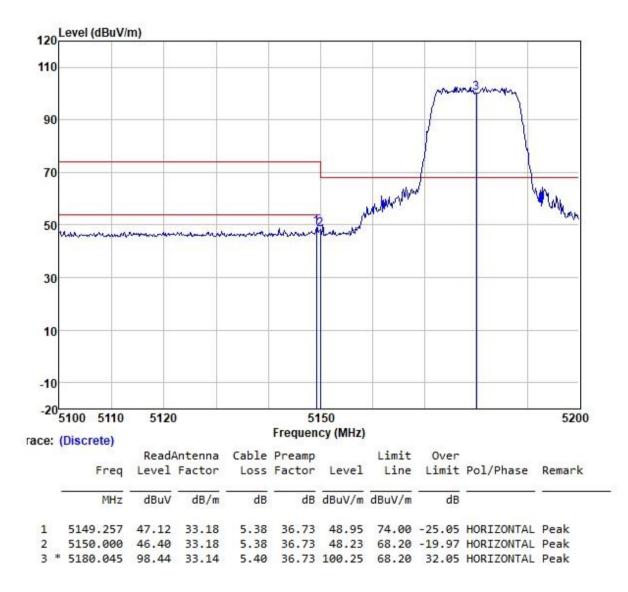
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





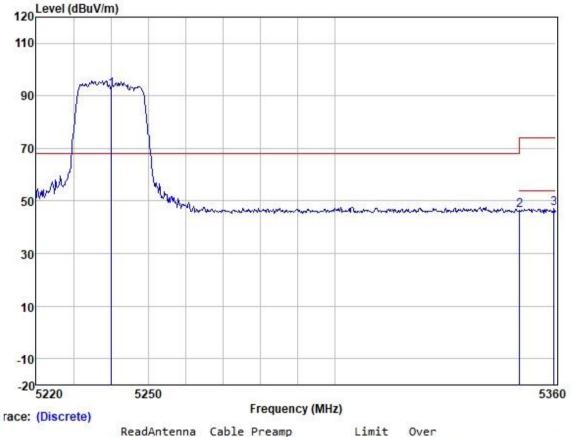
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| | | Freq | | Factor | | | | Line | | Pol/Phase | Remark |
|---|---|----------|-------|--------|------|-------|--------|--------|--------|-----------|--------|
| | - | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 5240.000 | 90.71 | 33.11 | 5.45 | 36.74 | 92.53 | 68.20 | 24.33 | VERTICAL | Peak |
| 2 | | 5350.000 | 44.54 | 33.04 | 5.55 | 36.76 | 46.37 | 68.20 | -21.83 | VERTICAL | Peak |
| 3 | | 5359.433 | 45.22 | 33.03 | 5.56 | 36.76 | 47.05 | 74.00 | -26.95 | VERTICAL | Peak |



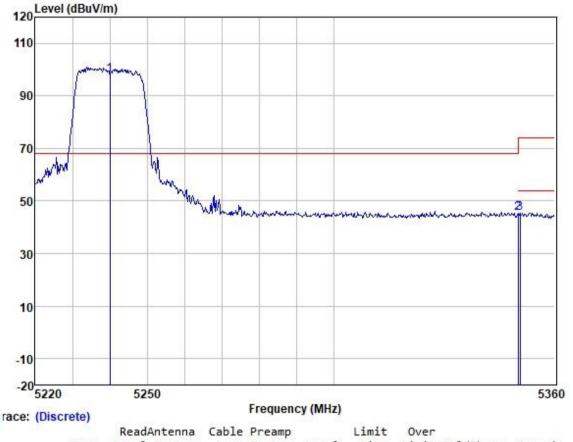
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
|---|------------|-------|--------|------|--------|--------|--------|--------|------------|----------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | 1 <u></u> | <u>.</u> |
| 1 | * 5239.932 | 96.22 | 33.11 | 5.45 | 36.74 | 98.04 | 68.20 | 29.84 | HORIZONTAL | Peak |
| 2 | 5349.938 | 43.51 | 33.04 | 5.55 | 36.76 | 45.34 | 68.20 | -22.86 | HORIZONTAL | Peak |
| 3 | 5350.504 | 43.67 | 33.04 | 5.55 | 36.76 | 45.50 | 74.00 | -28.50 | HORIZONTAL | Peak |



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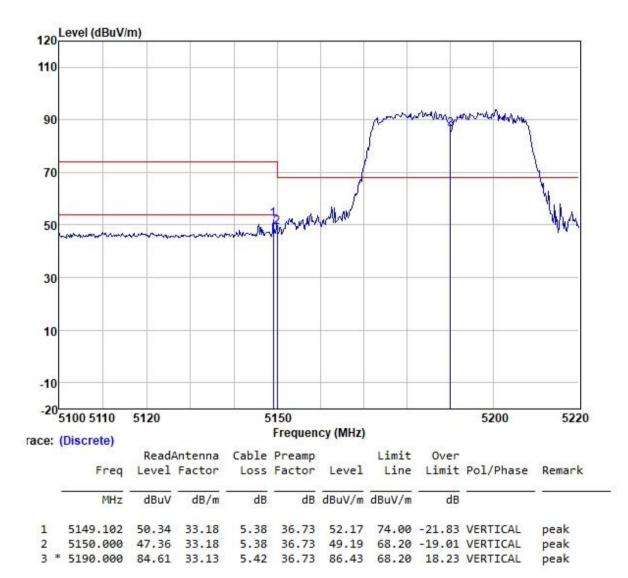
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 96 of 217

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





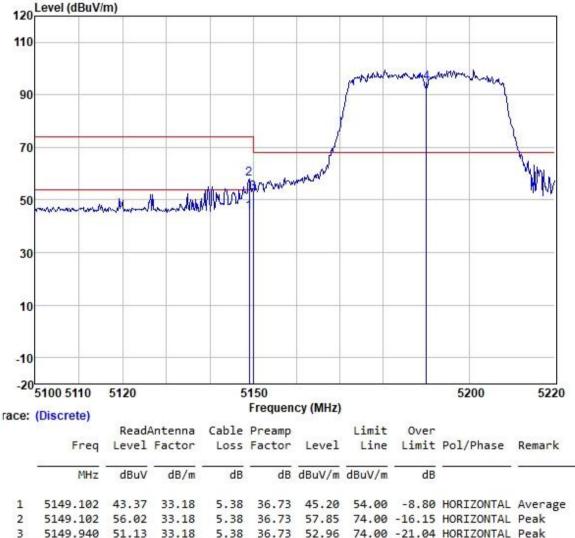
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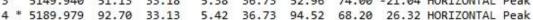
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 97 of 217

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low







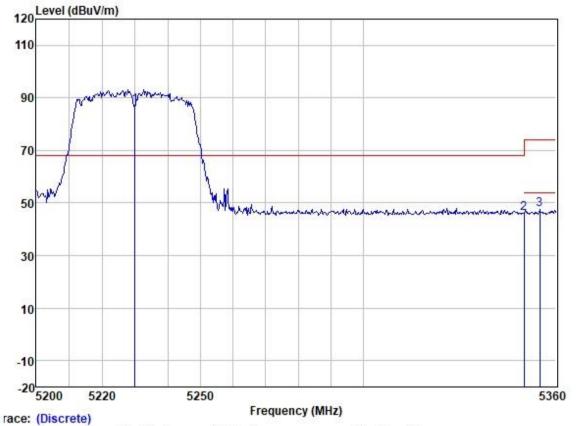
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 98 of 217

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



| | | Freq | | Antenna Factor | | | | | | Pol/Phase | Remark |
|---|---|----------|-------|-------------------|------|-------|--------|--------|--------|-----------|--------|
| | 1 | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 5230.028 | 85.17 | 33.12 | 5.44 | 36.74 | 86.99 | 68.20 | 18.79 | VERTICAL | Peak |
| 2 | | 5350.000 | 44.36 | 33.04 | 5.55 | 36.76 | 46.19 | 68.20 | -22.01 | VERTICAL | Peak |
| 3 | | 5354.805 | 45.65 | 33.03 | 5.56 | 36.76 | 47.48 | 74.00 | -26.52 | VERTICAL | Peak |



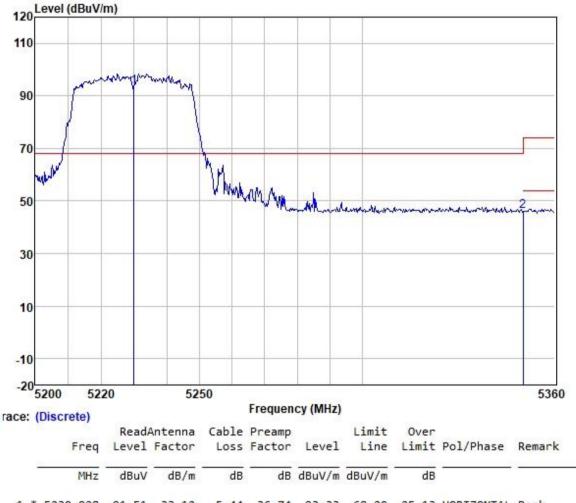
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 99 of 217

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



1 * 5230.028 91.51 33.12 5.44 36.74 93.33 68.20 25.13 HORIZONTAL Peak 5349.938 44.08 33.04 5.55 36.76 45.91 68.20 -22.29 HORIZONTAL Peak



2

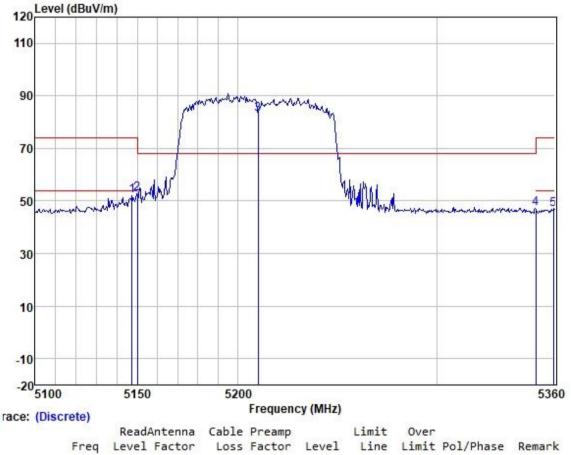
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 100 of 217

Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



| | | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
|---|---|----------|-------|--------|------|--------|--------|--------|--------|-----------|--------|
| | 1 | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | - | |
| 1 | | 5147.386 | 50.23 | 33.18 | 5.38 | 36.73 | 52.06 | 74.00 | -21.94 | VERTICAL | peak |
| 2 | | 5150.000 | 50.82 | 33.18 | 5.38 | 36.73 | 52.65 | 68.20 | -15.55 | VERTICAL | peak |
| 3 | * | 5210.000 | 81.41 | 33.12 | 5.43 | 36.74 | 83.22 | 68.20 | 15.02 | VERTICAL | peak |
| 4 | | 5350.000 | 45.22 | 33.04 | 5.55 | 36.76 | 47.05 | 68.20 | -21.15 | VERTICAL | peak |
| 5 | | 5359.201 | 45.01 | 33.03 | 5.56 | 36.76 | 46.84 | 74.00 | -27.16 | VERTICAL | peak |



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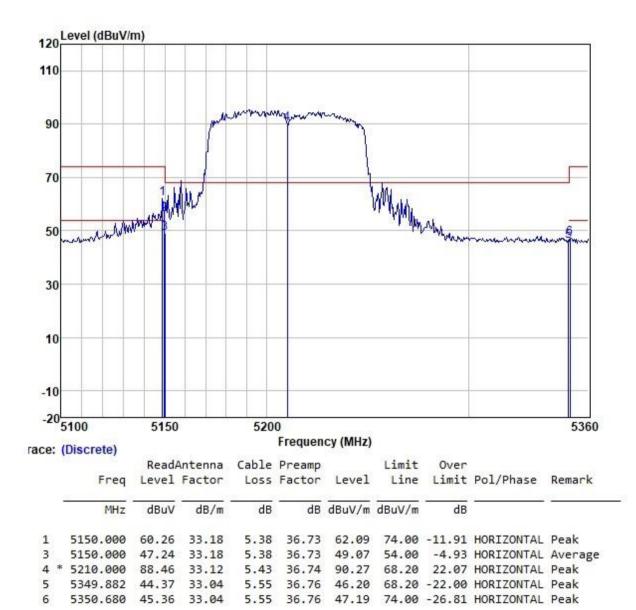
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 101 of 217

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





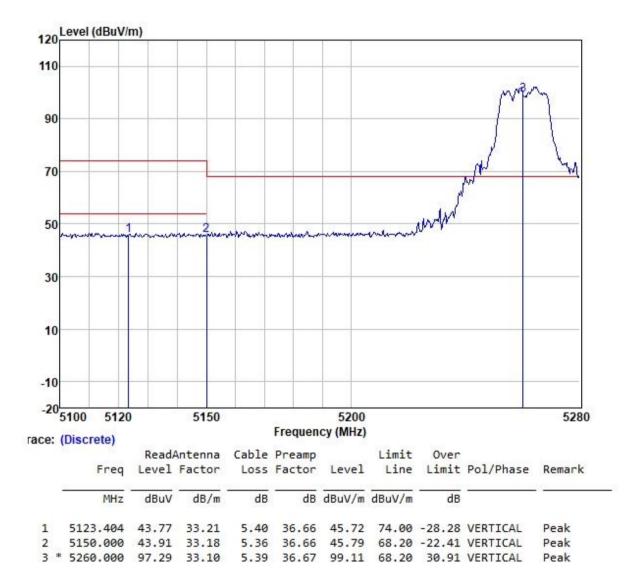
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 102 of 217

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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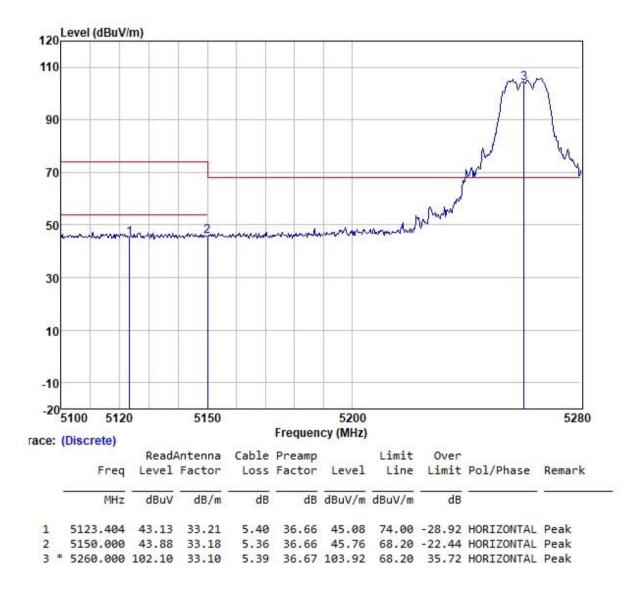
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





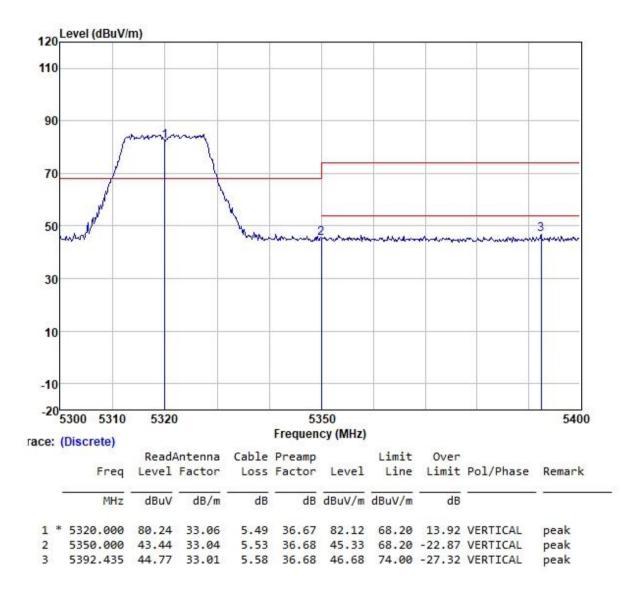
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High





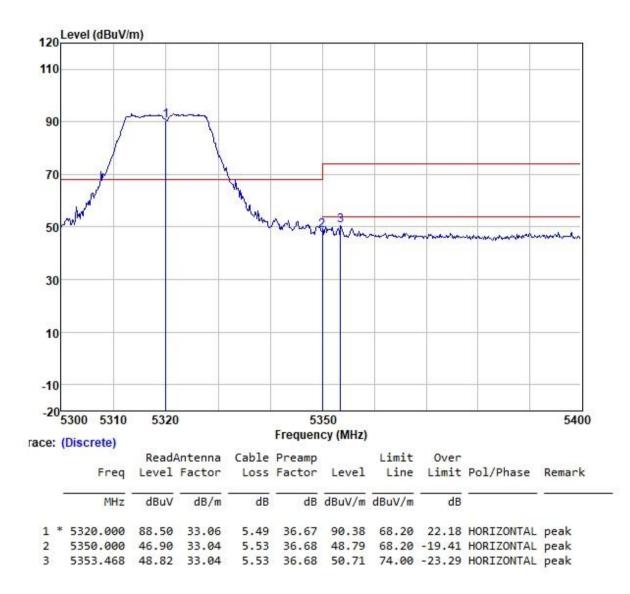
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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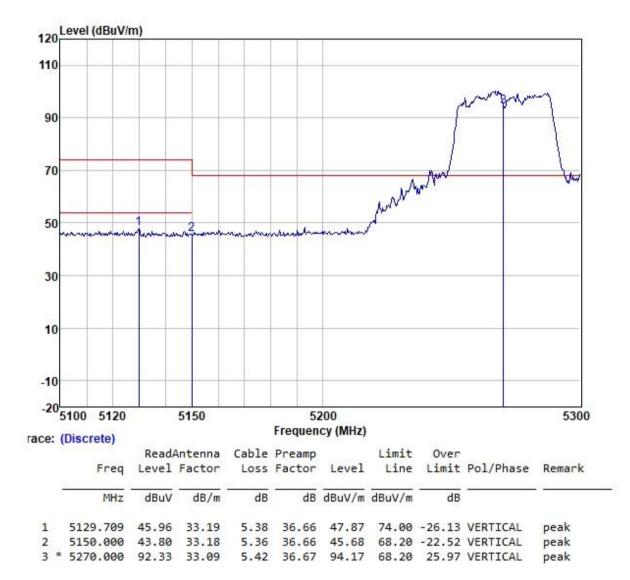
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





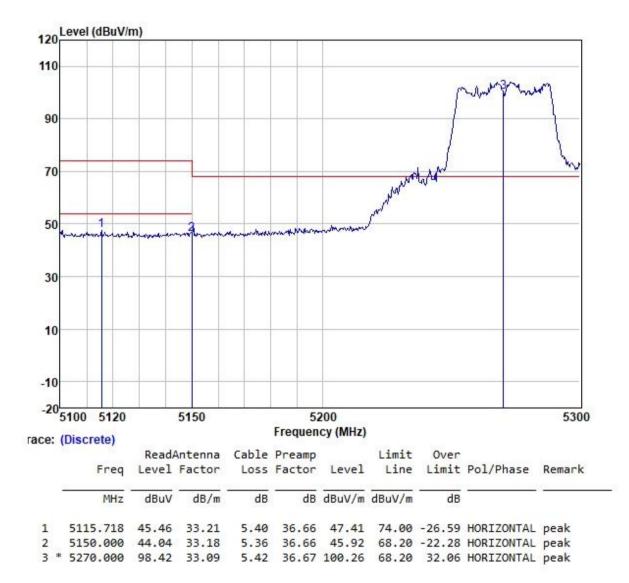
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





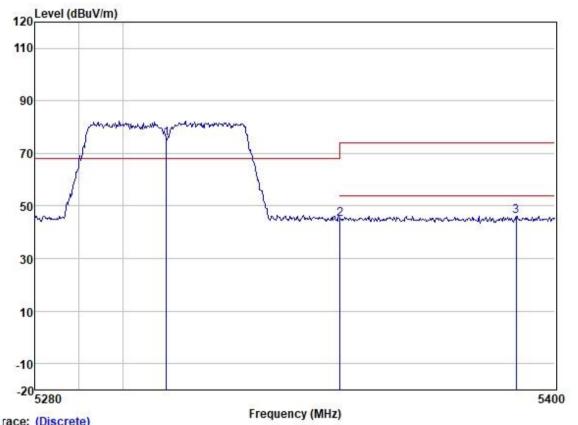
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



| | | (Discrete) | Read | Antenna | Cable | Preamp | | Limit | Over | | |
|---|---|------------|-------|---------|-------|--------|--------|--------|--------|-----------|--------|
| | | Freq | | | | | | | | Pol/Phase | Remark |
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | 1 | |
| 1 | * | 5310.000 | 73.67 | 33.06 | 5.49 | 36.67 | 75.55 | 68.20 | 7.35 | VERTICAL | peak |
| 2 | | 5350.000 | 42.90 | 33.04 | 5.53 | 36.68 | 44.79 | 68.20 | -23.41 | VERTICAL | peak |
| 3 | | 5390.906 | 44.35 | 33.01 | 5.58 | 36.68 | 46.26 | 74.00 | -27.74 | VERTICAL | peak |



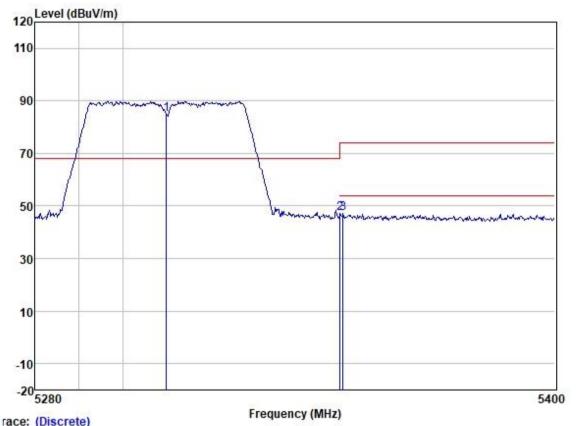
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 109 of 217

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



| | 1 | | Read | Antenna | Cable | Preamp | | Limit | Over | | |
|-----|---|----------|-------|---------|-------|--------|--------|--------|--------|------------|-----------|
| | | Freq | | | | | | | | Pol/Phase | Remark |
| | 1 | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | <u>91</u> |
| 1 ' | * | 5310.000 | 83.17 | 33.06 | 5.49 | 36.67 | 85.05 | 68.20 | 16.85 | HORIZONTAL | peak |
| 2 | | 5350.000 | 45.34 | 33.04 | 5.53 | 36.68 | 47.23 | 68.20 | -20.97 | HORIZONTAL | peak |
| 3 | | 5350.714 | 45.18 | 33.04 | 5.53 | 36.68 | 47.07 | 74.00 | -26.93 | HORIZONTAL | peak |



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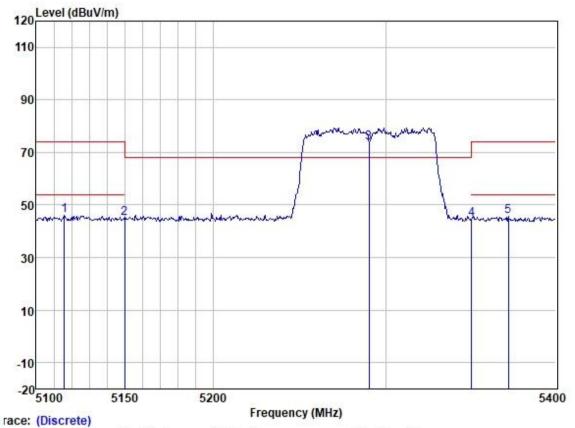
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 110 of 217

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz



| | | Read/ | Antenna | Cable | Preamp | | Limit | Over | | | | |
|-----|----------|-------|---------|-------|--------|--------|--------|--------|----------|-------|-----------|--------|
| | Freq | Level | Level | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | | |
| 1 | 5115.766 | 44.06 | 33.21 | 5.40 | 36.66 | 46.01 | 74.00 | -27.99 | VERTICAL | peak | | |
| 2 | 5150.000 | 43.26 | 33.18 | 5.36 | 36.66 | 45.14 | 68.20 | -23.06 | VERTICAL | peak | | |
| 3 * | 5290.000 | 71.77 | 33.08 | 5.44 | 36.67 | 73.62 | 68.20 | 5.42 | VERTICAL | peak | | |
| 4 | 5350.000 | 42.82 | 33.04 | 5.53 | 36.68 | 44.71 | 68.20 | -23.49 | VERTICAL | peak | | |
| 5 | 5371.678 | 43.64 | 33.02 | 5.56 | 36.68 | 45.54 | 74.00 | -28.46 | VERTICAL | peak | | |



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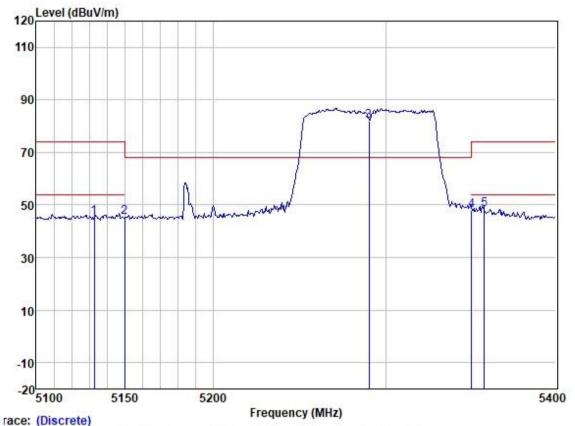
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 111 of 217

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz



| | Freq | | Antenna Factor | | | | | | Pol/Phase | Remark |
|-----|----------|-------|-------------------|------|-------|--------|--------|--------|------------|----------|
| 2 | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | <u>8</u> |
| 1 | 5132.753 | 43.60 | 33.19 | 5.38 | 36.66 | 45.51 | 74.00 | -28.49 | HORIZONTAL | Peak |
| 2 | 5150.000 | 43.34 | 33.18 | 5.36 | 36.66 | 45.22 | 68.20 | -22.98 | HORIZONTAL | Peak |
| 3 * | 5290.000 | 80.02 | 33.08 | 5.44 | 36.67 | 81.87 | 68.20 | 13.67 | HORIZONTAL | Peak |
| 4 | 5350.000 | 46.19 | 33.04 | 5.53 | 36.68 | 48.08 | 68.20 | -20.12 | HORIZONTAL | Peak |
| 5 | 5357.573 | 46.56 | 33.03 | 5.55 | 36.68 | 48.46 | 74.00 | -25.54 | HORIZONTAL | Peak |



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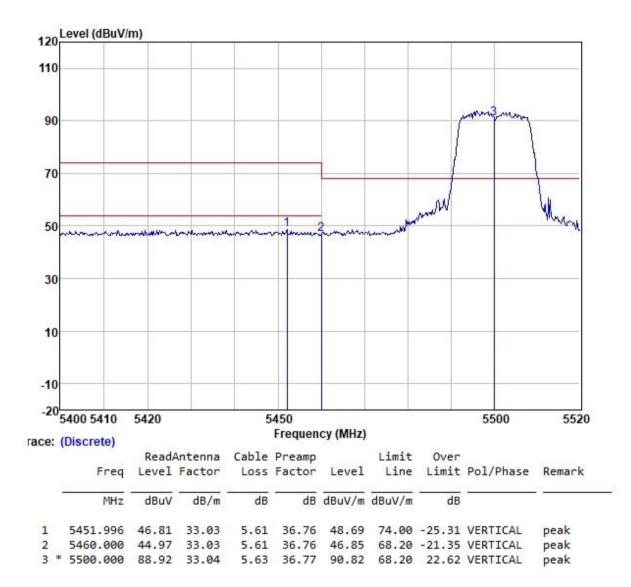
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 112 of 217 Page:

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





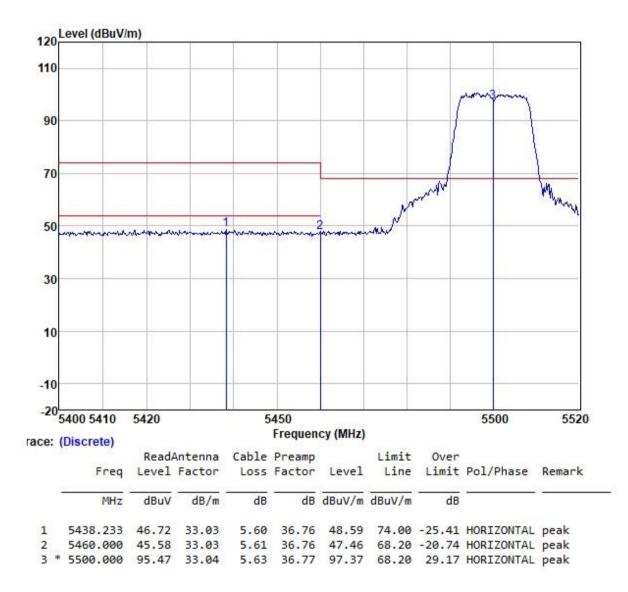
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 113 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





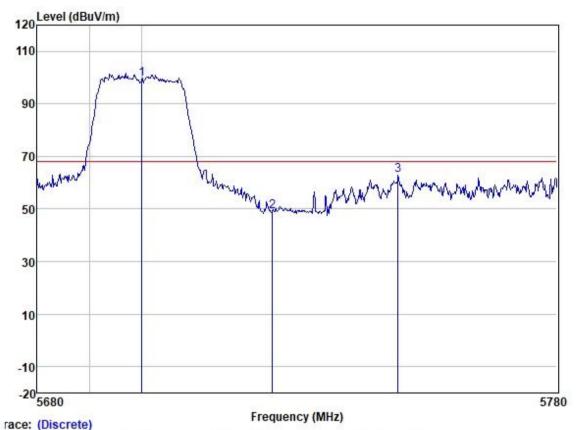
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 114 of 217

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



ReadAntenna Cable Preamp Limit Over Level Factor Loss Factor Level Line Limit Pol/Phase Remark Freq dB dBuV/m dBuV/m MHz dBuV dB/m dB dB peak 1 * 5700.000 96.72 33.64 5.70 36.78 99.28 68.20 31.08 VERTICAL 5725.000 46.48 33.79 2 5.72 36.78 49.21 68.20 -18.99 VERTICAL peak 3 5749.214 59.92 33.88 5.74 36.79 62.75 68.20 -5.45 VERTICAL peak



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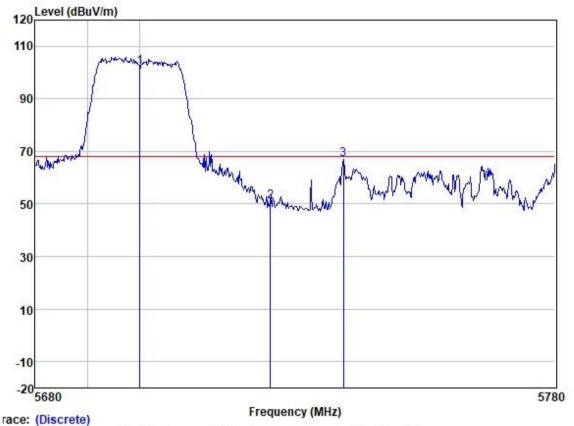
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 115 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| | | Freq | | Antenna Factor | | | | | | Pol/Phase | Remark |
|---|---|----------|-------|-------------------|------|-------|--------|--------|--------|------------|------------|
| | 2 | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | S <u>1</u> |
| 1 | * | 5700.000 | 99.68 | 33.64 | 5.70 | 36.78 | 102.24 | 68.20 | 34.04 | HORIZONTAL | peak |
| 2 | | 5725.000 | 48.38 | 33.79 | 5.72 | 36.78 | 51.11 | 68.20 | -17.09 | HORIZONTAL | peak |
| 3 | | | | | | | | | | HORIZONTAL | |



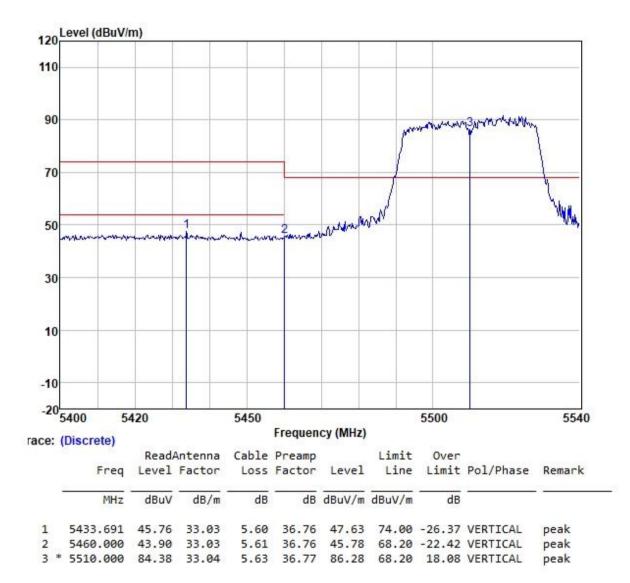
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 116 of 217

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





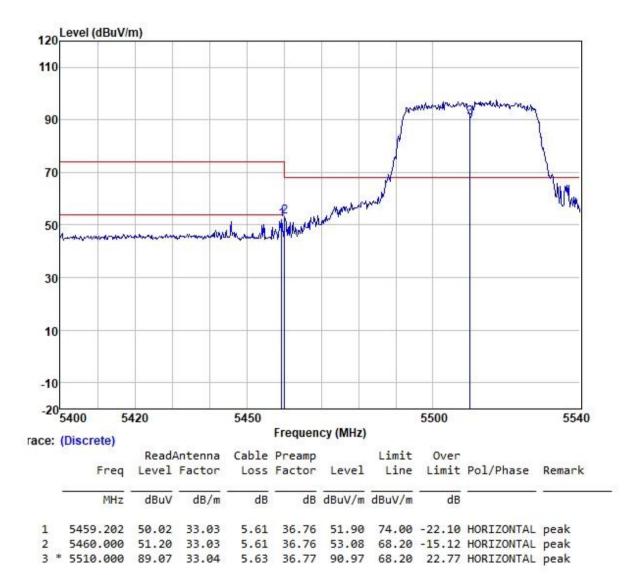
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 117 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





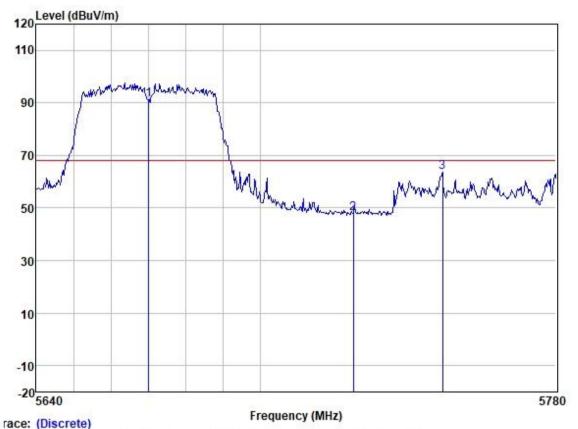
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 118 of 217

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Pol/Phase Remark dB dBuV/m dBuV/m MHz dBuV dB/m dB dB peak 1 * 5670.000 88.94 33.50 5.69 36.78 91.35 68.20 23.15 VERTICAL 5.72 36.78 48.11 68.20 -20.09 VERTICAL 2 5725.000 45.38 33.79 peak 3 5749.187 60.69 33.88 5.74 36.79 63.52 68.20 -4.68 VERTICAL peak



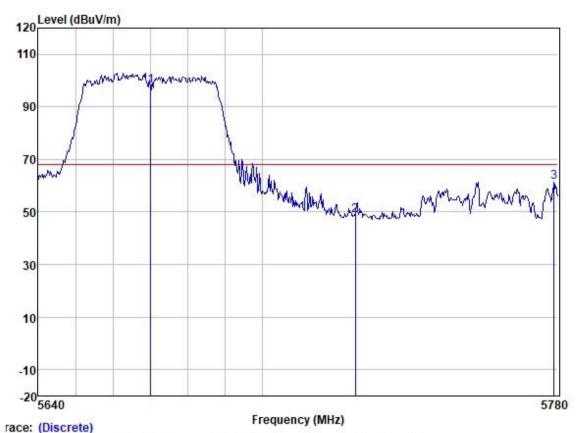
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 119 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



ReadAntenna Cable Preamp Limit Over Level Factor Loss Factor Level Line Limit Pol/Phase Remark Freq dB dBuV/m dBuV/m MHz dBuV dB/m dB dB 1 * 5670.000 95.44 33.50 5.69 36.78 97.85 68.20 29.65 HORIZONTAL peak 5725.000 45.87 33.79 5.72 36.78 48.60 68.20 -19.60 HORIZONTAL peak 2 3 5778.866 58.48 34.05 5.76 36.79 61.50 68.20 -6.70 HORIZONTAL peak



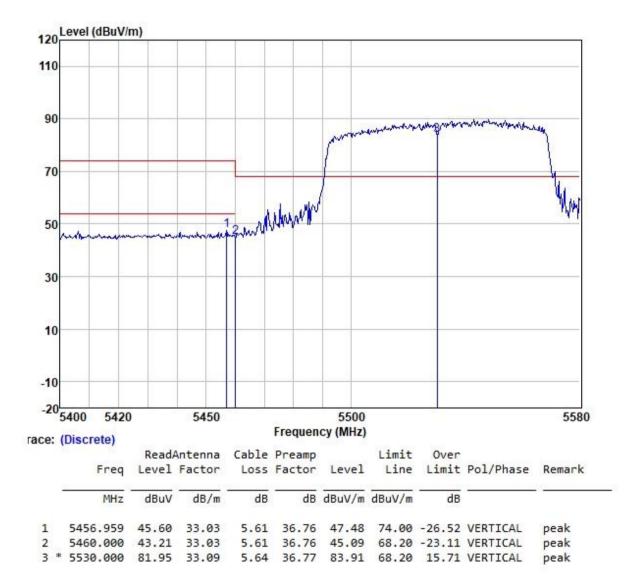
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 120 of 217

Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





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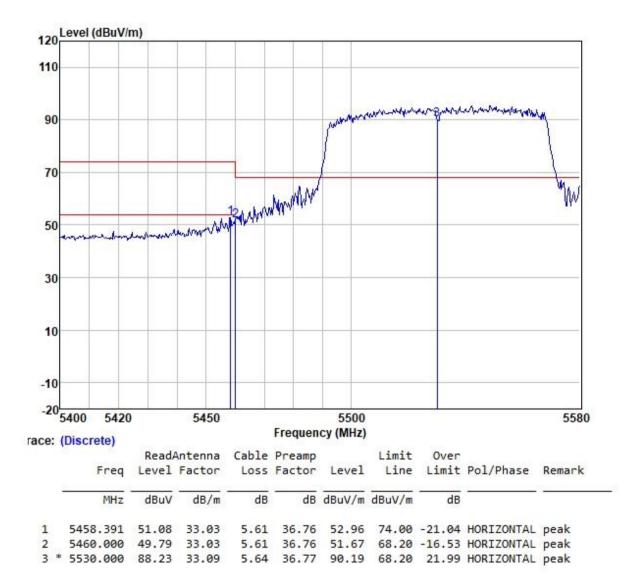
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 121 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





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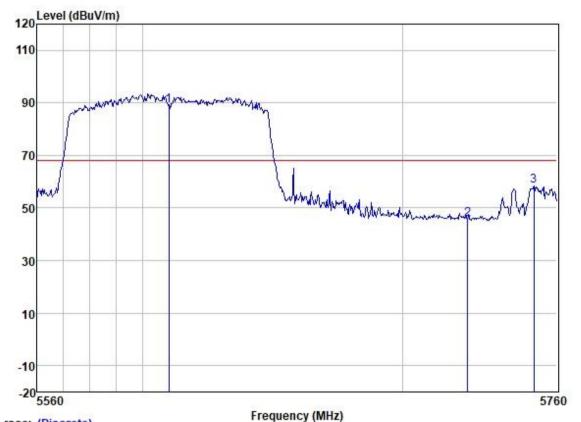
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 122 of 217

Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



race: (Discrete) ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Pol/Phase Remark dB dBuV/m dBuV/m MHz dBuV dB/m dB dB peak 1 * 5610.000 86.95 33.28 5.67 36.78 89.12 68.20 20.92 VERTICAL 5.72 36.78 45.86 68.20 -22.34 VERTICAL 2 5725.000 43.13 33.79 peak 3 5750.847 55.58 33.88 5.74 36.79 58.41 68.20 -9.79 VERTICAL peak



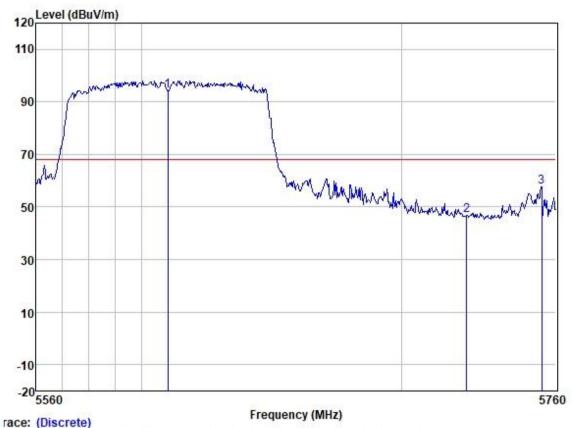
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 123 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Pol/Phase Remark dB dBuV/m dBuV/m MHz dBuV dB/m dB dB 1 * 5610.000 91.91 33.28 5.67 36.78 94.08 68.20 25.88 HORIZONTAL peak 5.72 36.78 46.85 68.20 -21.35 HORIZONTAL peak 2 5725.000 44.12 33.79 3 5754.303 54.83 33.88 5.74 36.79 57.66 68.20 -10.54 HORIZONTAL Peak



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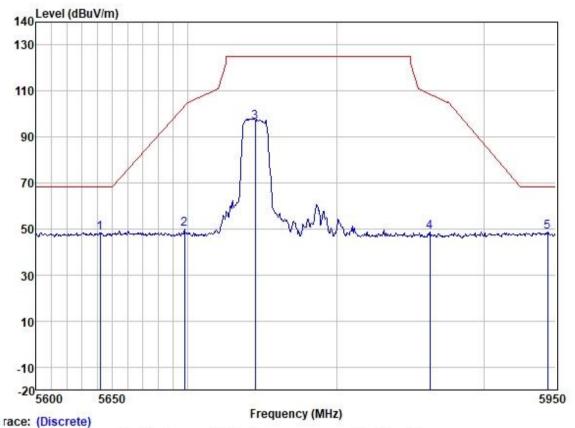
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 124 of 217

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



| | Freq | | Antenna Factor | | | | Limit Line | 10 S S S S S S S S S S S S S S S S S S S | Pol/Phase | Remark |
|---|----------|-------|-------------------|------|-------|--------|---------------|--|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | <u>.</u> | 191 |
| 1 | 5641.915 | 46.21 | 31.95 | 6.35 | 36.16 | 48.35 | 68.20 | -19.85 | VERTICAL | peak |
| 2 | 5697.598 | 47.53 | 32.01 | 6.40 | 36.15 | 49.79 | 103.43 | -53.64 | VERTICAL | peak |
| 3 | 5745.000 | 94.15 | 32.10 | 6.20 | 36.14 | 96.31 | 125.20 | -28.89 | VERTICAL | peak |
| 4 | 5862.988 | 46.45 | 32.27 | 5.96 | 36.12 | 48.56 | 108.56 | -60.00 | VERTICAL | peak |
| 5 | 5944.231 | 46.26 | 32.36 | 6.05 | 36.11 | 48.56 | 68.20 | -19.64 | VERTICAL | peak |



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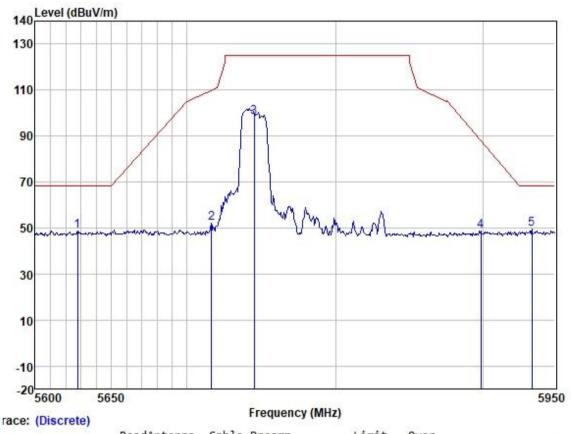
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 125 of 217

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



| | Freq | | | | | | | | Pol/Phase | Remark |
|----------|---------|---|--|---|---|---|--|--|--|--|
| <u>.</u> | | | | <u> </u> | | . <u></u> | | | | |
| | rinz | ubuv | 00711 | ub | ub | ubuv/m | ubuv/iii | чb | | |
| 56 | 527.908 | 46.52 | 31.93 | 6.33 | 36.17 | 48.61 | 68.20 | -19.59 | HORIZONTAL | peak |
| 57 | 716.281 | 49.84 | 32.04 | 6.33 | 36.15 | 52.06 | 109.76 | -57.70 | HORIZONTAL | peak |
| 57 | 745.000 | 96.18 | 32.10 | 6.20 | 36.14 | 98.34 | 125.20 | -26.86 | HORIZONTAL | peak |
| 58 | 898.641 | 46.51 | 32.31 | 5.90 | 36.12 | 48.60 | 87.70 | -39.10 | HORIZONTAL | peak |
| 59 | 933.790 | 47.30 | 32.34 | 6.00 | 36.11 | 49.53 | 68.20 | -18.67 | HORIZONTAL | peak |
| | 5 | MHz 5627.908 5716.281 5745.000 5898.641 | Freq Level MHz dBuV 5627.908 46.52 5716.281 49.84 5745.000 96.18 5898.641 46.51 | Freq Level Factor MHz dBuV dB/m 5627.908 46.52 31.93 5716.281 49.84 32.04 5745.000 96.18 32.10 5898.641 46.51 32.31 | Freq Level Factor Loss MHz dBuV dB/m dB 5627.908 46.52 31.93 6.33 5716.281 49.84 32.04 6.33 5745.000 96.18 32.10 6.20 5898.641 46.51 32.31 5.90 | Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 5627.908 46.52 31.93 6.33 36.17 5716.281 49.84 32.04 6.33 36.15 5745.000 96.18 32.10 6.20 36.14 5898.641 46.51 32.31 5.90 36.12 | Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dBuV/m 5627.908 46.52 31.93 6.33 36.17 48.61 5716.281 49.84 32.04 6.33 36.15 52.06 5745.000 96.18 32.10 6.20 36.14 98.34 5898.641 46.51 32.31 5.90 36.12 48.60 | Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m 5627.908 46.52 31.93 6.33 36.17 48.61 68.20 5716.281 49.84 32.04 6.33 36.15 52.06 109.76 5745.000 96.18 32.10 6.20 36.14 98.34 125.20 5898.641 46.51 32.31 5.90 36.12 48.60 87.70 | Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dB dBuV/m dBuV/m dB 5627.908 46.52 31.93 6.33 36.17 48.61 68.20 -19.59 5716.281 49.84 32.04 6.33 36.15 52.06 109.76 -57.70 5745.000 96.18 32.10 6.20 36.14 98.34 125.20 -26.86 5898.641 46.51 32.31 5.90 36.12 48.60 87.70 -39.10 | Freq Level Factor Loss Factor Level Line Limit Pol/Phase MHz dBuV dB/m dB dB dB dBuV/m dBuV/m dB 5627.908 46.52 31.93 6.33 36.17 48.61 68.20 -19.59 HORIZONTAL 5716.281 49.84 32.04 6.33 36.15 52.06 109.76 -57.70 HORIZONTAL 5745.000 96.18 32.10 6.20 36.14 98.34 125.20 -26.86 HORIZONTAL 5898.641 46.51 32.31 5.90 36.12 48.60 87.70 -39.10 HORIZONTAL |



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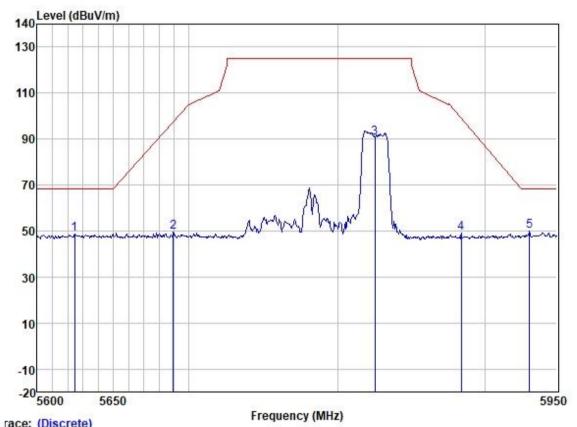
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 126 of 217

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| | 2 X | Read | Antenna | Cable | Preamp | | Limit | Over | | |
|---|----------|-------|---------|-------|--------|--------|--------|--------|-----------|--------|
| | Freq | | | | | | | | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5624.497 | 46.56 | 31.93 | 6.33 | 36.17 | 48.65 | 68.20 | -19.55 | VERTICAL | peak |
| 2 | 5689.659 | 47.26 | 32.01 | 6.40 | 36.15 | 49.52 | 97.57 | -48.05 | VERTICAL | peak |
| 3 | 5825.000 | 88.51 | 32.23 | 6.04 | 36.13 | 90.65 | 125.20 | -34.55 | VERTICAL | peak |
| 4 | 5883.997 | 46.91 | 32.29 | 5.93 | 36.12 | 49.01 | 98.58 | -49.57 | VERTICAL | peak |
| 5 | 5930.913 | 47.63 | 32.34 | 6.00 | 36.11 | 49.86 | 68.20 | -18.34 | VERTICAL | peak |



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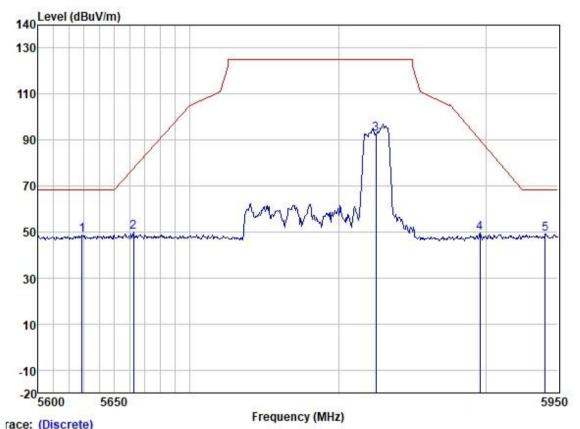
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 127 of 217

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| | (01001010) | | | | | | | | | |
|---|------------|-------|-------------------|------|-------|--------|--------|--------|------------|----------|
| | Freq | | Antenna Factor | | | | | | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | <u>9</u> |
| 1 | 5628.590 | 46.55 | 31.93 | 6.33 | 36.17 | 48.64 | 68.20 | -19.56 | HORIZONTAL | peak |
| 2 | 5662.474 | 47.60 | 31.97 | 6.37 | 36.16 | 49.78 | 77.46 | -27.68 | HORIZONTAL | peak |
| 3 | 5825.000 | 90.36 | 32.23 | 6.04 | 36.13 | 92.50 | 125.20 | -32.70 | HORIZONTAL | peak |
| 4 | 5896.138 | 47.64 | 32.31 | 5.90 | 36.12 | 49.73 | 89.56 | -39.83 | HORIZONTAL | peak |
| 5 | 5940.989 | 47.10 | 32.34 | 6.00 | 36.11 | 49.33 | 68.20 | -18.87 | HORIZONTAL | peak |



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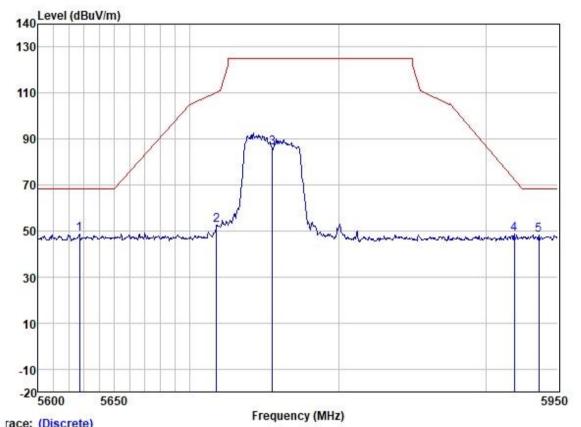
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 128 of 217

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| 66. | (Discrete) | | | | | | | | | |
|-----|------------|-------|-------------------|------|-------|--------|---------------|---------------|-----------|--------|
| | Freq | | Antenna Factor | | | | Limit Line | 10. 17 CO. 19 | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | <u>.</u> | 182 |
| 1 | 5627.226 | 46.59 | 31.93 | 6.33 | 36.17 | 48.68 | 68.20 | -19.52 | VERTICAL | peak |
| 2 | 5717.667 | 50.25 | 32.04 | 6.33 | 36.15 | 52.47 | 110.15 | -57.68 | VERTICAL | peak |
| 3 | 5755.000 | 84.01 | 32.10 | 6.20 | 36.14 | 86.17 | 125.20 | -39.03 | VERTICAL | peak |
| 4 | 5919.777 | 46.65 | 32.33 | 5.95 | 36.11 | 48.82 | 72.06 | -23.24 | VERTICAL | peak |
| 5 | 5936.668 | 45.86 | 32.34 | 6.00 | 36.11 | 48.09 | 68.20 | -20.11 | VERTICAL | peak |



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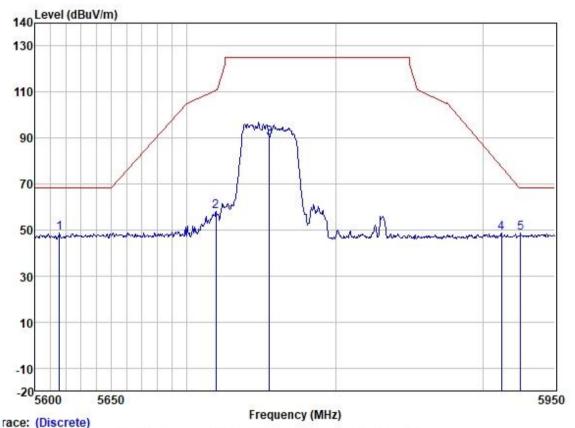
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 129 of 217

Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| | Freq | | Antenna Factor | | | | | | Pol/Phase | Remark |
|---|----------|-------|-------------------|------|---------|--------|--------|---------|------------|------------|
| | eq | | , accor | 2033 | , accor | | LINC | E AMA A | 101/11050 | ricinar is |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5615.979 | 46.49 | 31.91 | 6.32 | 36.17 | 48.55 | 68.20 | -19.65 | HORIZONTAL | peak |
| 2 | 5719.400 | 55.79 | 32.04 | 6.33 | 36.15 | 58.01 | 110.63 | -52.62 | HORIZONTAL | peak |
| 3 | 5755.000 | 87.97 | 32.10 | 6.20 | 36.14 | 90.13 | 125.20 | -35.07 | HORIZONTAL | peak |
| 4 | 5912.962 | 46.43 | 32.33 | 5.95 | 36.11 | 48.60 | 77.10 | -28.50 | HORIZONTAL | peak |
| 5 | 5926.240 | 46.36 | 32.34 | 6.00 | 36.11 | 48.59 | 68.20 | -19.61 | HORIZONTAL | peak |



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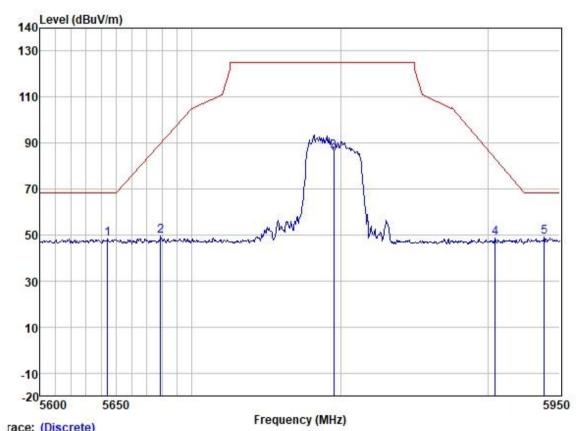
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 130 of 217

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



| | 8) X | Read | Antenna | Cable | Preamp | | Limit | Over | | |
|---|----------|-------|---------|-------|--------|--------|--------|--------|-----------|--------|
| | Freq | | | | | | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | 5 | |
| 1 | 5644.309 | 45.94 | 31.95 | 6.35 | 36.16 | 48.08 | 68.20 | -20.12 | VERTICAL | peak |
| 2 | 5679.320 | 47.26 | 31.99 | 6.38 | 36.16 | 49.47 | 89.94 | -40.47 | VERTICAL | peak |
| 3 | 5795.000 | 84.23 | 32.19 | 6.10 | 36.13 | 86.39 | 125.20 | -38.81 | VERTICAL | peak |
| 4 | 5905.081 | 46.44 | 32.31 | 5.90 | 36.12 | 48.53 | 82.93 | -34.40 | VERTICAL | peak |
| 5 | 5938.828 | 46.68 | 32.34 | 6.00 | 36.11 | 48.91 | 68.20 | -19.29 | VERTICAL | peak |



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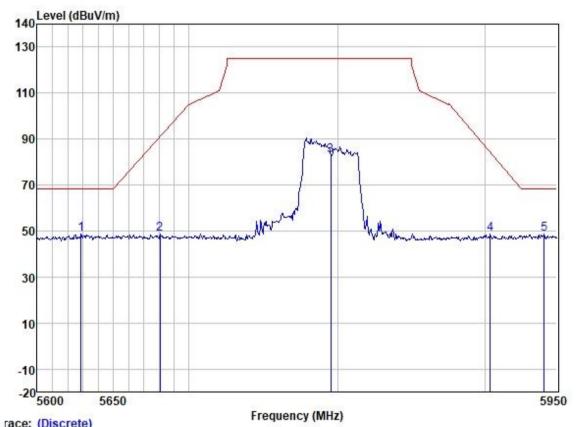
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 131 of 217

Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



| | (Discrete) | Read | Antenna | Cable | Preamp | | Limit | Over | | |
|---|------------|-------|---------|-------|--------|--------|--------|-----------------|------------|-------------|
| | Freq | | | | | | | | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | 3 <u></u> | 5 <u>10</u> |
| 1 | 5628.590 | 46.55 | 31.93 | 6.33 | 36.17 | 48.64 | 68.20 | - 1 9.56 | HORIZONTAL | peak |
| 2 | 5680.697 | 46.49 | 31.99 | 6.38 | 36.16 | 48.70 | 90.95 | -42.25 | HORIZONTAL | peak |
| 3 | 5795.000 | 80.78 | 32.19 | 6.10 | 36.13 | 82.94 | 125.20 | -42.26 | HORIZONTAL | peak |
| 4 | 5903.649 | 46.44 | 32.31 | 5.90 | 36.12 | 48.53 | 83.99 | -35.46 | HORIZONTAL | peak |
| 5 | 5940.989 | 46.34 | 32.34 | 6.00 | 36.11 | 48.57 | 68.20 | -19.63 | HORIZONTAL | peak |



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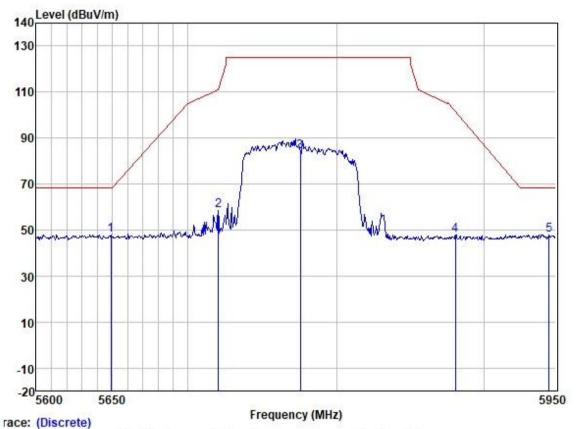
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz



| | Freq | | Antenna Factor | | | | Limit Line | | Pol/Phase | Remark |
|---|----------|-------|-------------------|------|-------|--------|---------------|--------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5649.102 | 45.78 | 31.95 | 6.35 | 36.16 | 47.92 | 68.20 | -20.28 | VERTICAL | peak |
| 2 | 5720.094 | 56.40 | 32.04 | 6.33 | 36.15 | 58.62 | 111.01 | -52.39 | VERTICAL | peak |
| 3 | 5775.000 | 81.82 | 32.16 | 6.10 | 36.14 | 83.94 | 125.20 | -41.26 | VERTICAL | peak |
| 4 | 5880.431 | 45.91 | 32.29 | 5.93 | 36.12 | 48.01 | 101.23 | -53.22 | VERTICAL | peak |
| 5 | 5944.952 | 45.62 | 32.36 | 6.05 | 36.11 | 47.92 | 68.20 | -20.28 | VERTICAL | peak |



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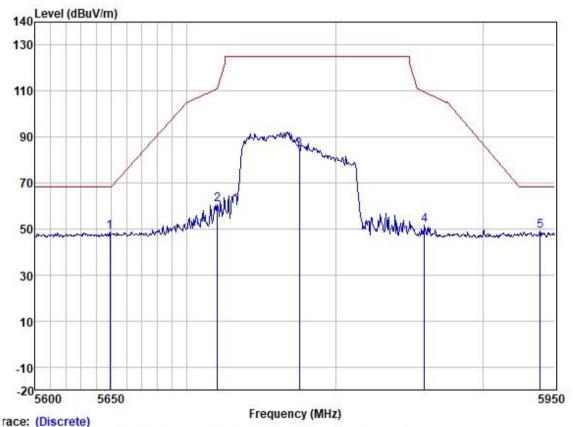
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz



| _ | | | | | | | | | | |
|---|----------|-------|-------------------|------|-------|--------|--------|-----------------|------------|--------|
| | Freq | | Antenna Factor | | | | | | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | 1 <u>8</u> | |
| 1 | 5649.102 | 46.47 | 31.95 | 6.35 | 36.16 | 48.61 | 68.20 | - 1 9.59 | HORIZONTAL | peak |
| 2 | 5720.094 | 58.29 | 32.04 | 6.33 | 36.15 | 60.51 | 111.01 | -50.50 | HORIZONTAL | peak |
| 3 | 5775.000 | 82.29 | 32.16 | 6.10 | 36.14 | 84.41 | 125.20 | -40.79 | HORIZONTAL | peak |
| 4 | 5860.146 | 49.73 | 32.27 | 5.96 | 36.12 | 51.84 | 109.36 | -57.52 | HORIZONTAL | peak |
| 5 | | | | | | | | | HORIZONTAL | |



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|-------|--------------------------------------|---------|---------|-------------------------------------|---|---|---|--------------------------------------|---------------------|---------------|
| 7.11 | Frequen | cy Sta | bility | , | | | | | | |
| | Test Requ Test Meth | | - | | Part 15, Sub 3.10 (2013) | part E 15.407(Section 6.8 | g) | | | |
| 7.11. | 1 E.U.T. C Operating Temperati | Environ | | ٥c | Humidity: | 57.0 % RH | Atmosph | eric Pressure: | 1014 | mbar |
| 7.11. | 2 Test Mo | de Desc | criptio | n | | | | | | |
| | Pre-scan Final test | | ; | Description | on | | | | | |
| | Final test | 05 | | modulation and found rate @ M | on types. All d the data ra ICS0 is the | Keep the EUT in data rates for ate @ 6Mbps is worst case of IE rded in the repo | each modula the worst ca EEE 802.11r | ation type have ase of IEEE 802 | been te 2.11a; c | ested data |
| | Final test | 06 | | all modul tested an data rate | ation types. Id found the @ MCS0 is | _Keep the EUT All data rates f data rate @ 6M the worst case recorded in the | or each moc Mbps is the v e of IEEE 802 | lulation type ha vorst case of IE | ve beer EE 802 | า 2.11a; |
| | Final test | 07 | | all modul tested an data rate | ation types. d found the @ MCS0 is | _Keep the EUT All data rates f data rate @ 6M the worst case recorded in the | or each moc Mbps is the v e of IEEE 802 | lulation type ha | ve beer EE 802 | ר 2.11a; |
| | Final test | 08 | | all modul tested an | ation types. Id found the | Keep the EUT i All data rates f data rate @ 6N the worst case | or each moo Mbps is the v | lulation type ha | ve beer EE 802 | ח 2.11a; |

data of worst case is recorded in the report.



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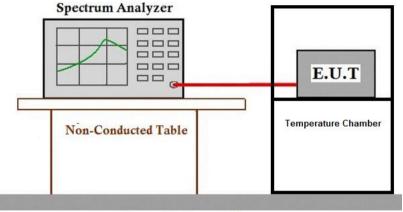
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7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for GZCR240100007504



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EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for GZCR2401000075AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

| | | | | A | Ant1 | | |
|---------------------|------------|--------------------|--------------|----------------|-------------------|--------------------------------------|--------------------------|
| Mode | ТХ Туре | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| | | 5180 | 2.066 | 10.016 | 20.63 | 6.86 | 0.07 |
| | | 5200 | 2.067 | 10.080 | 20.51 | 6.88 | 0.33 |
| | | 5240 | 2.063 | 10.013 | 20.60 | 6.86 | 0.10 |
| | | 5260 | 2.063 | 10.016 | 20.60 | 6.86 | 0.10 |
| | | 5300 | 2.066 | 10.050 | 20.56 | 6.87 | 0.24 |
| 802.11a | SISO | 5320 | 2.064 | 10.017 | 20.60 | 6.86 | 0.10 |
| 002.11a | 3130 | 5500 | 2.067 | 10.017 | 20.63 | 6.85 | 0.04 |
| | | 5580 | 2.063 | 10.017 | 20.59 | 6.86 | 0.10 |
| | | 5700 | 2.064 | 10.014 | 20.61 | 6.86 | 0.10 |
| | | 5745 | 2.064 | 10.017 | 20.60 | 6.86 | 0.10 |
| | | 5785 | 2.067 | 10.080 | 20.51 | 6.88 | 0.33 |
| | | 5825 | 2.063 | 10.013 | 20.60 | 6.86 | 0.09 |
| | | 5190 | 0.947 | 10.080 | 9.39 | 10.27 | 0.15 |
| | | 5230 | 0.944 | 10.017 | 9.42 | 10.26 | 0.03 |
| | | 5270 | 0.943 | 10.016 | 9.41 | 10.26 | 0.03 |
| 000 11- | | 5310 | 0.943 | 10.013 | 9.42 | 10.26 | 0.06 |
| 802.11n (HT40) | SISO | 5510 | 0.944 | 10.017 | 9.42 | 10.26 | 0.06 |
| (11110) | | 5550 | 0.943 | 10.110 | 9.33 | 10.30 | 0.24 |
| | | 5670 | 0.946 | 10.016 | 9.44 | 10.25 | 0.03 |
| | | 5755 | 0.943 | 9.983 | 9.45 | 10.25 | 0.00 |
| | | 5795 | 0.943 | 10.013 | 9.42 | 10.26 | 0.06 |
| | | 5210 | 1.920 | 10.047 | 19.11 | 7.19 | 0.21 |
| 000 11 6- | | 5290 | 1.920 | 10.016 | 19.17 | 7.17 | 0.06 |
| 802.11ac (VHT80) | SISO | 5530 | 1.920 | 10.080 | 19.05 | 7.20 | 0.31 |
| (011100) | | 5610 | 1.920 | 10.017 | 19.17 | 7.17 | 0.06 |
| | | 5775 | 1.920 | 10.013 | 19.18 | 7.17 | 0.09 |



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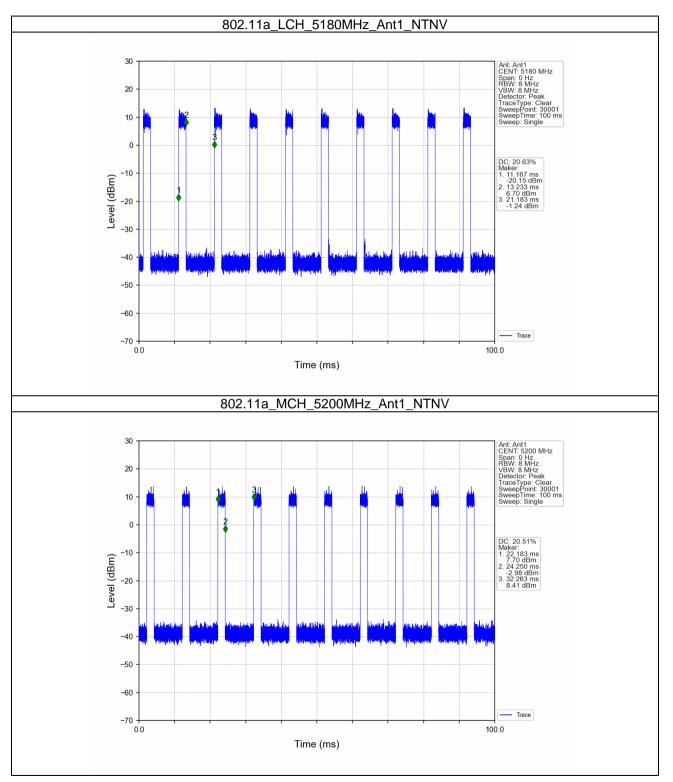
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1.1.2 Test Graph





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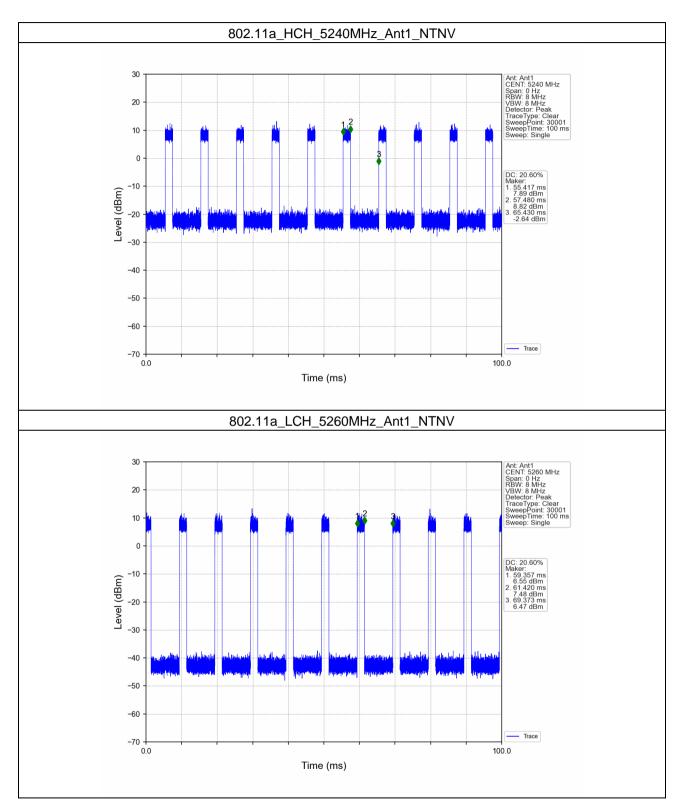
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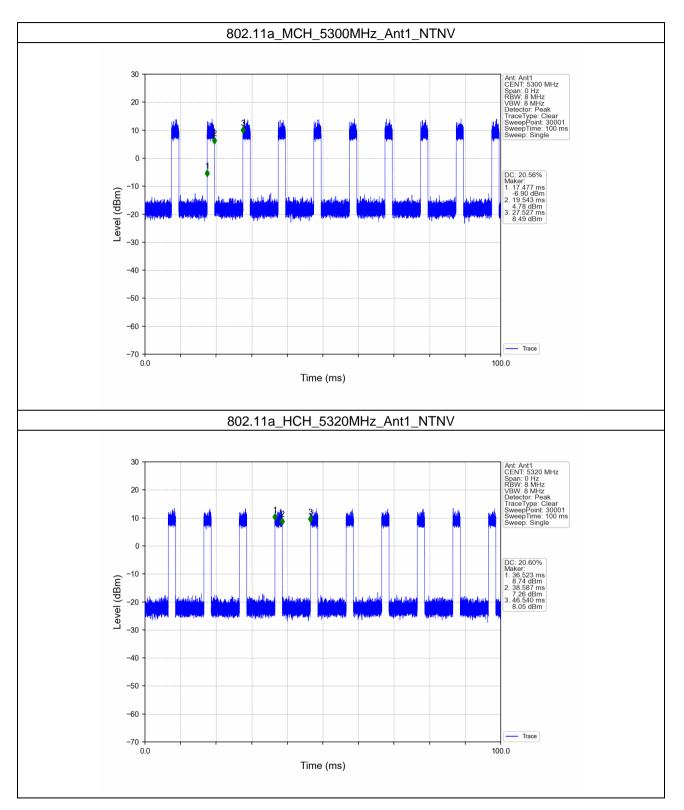
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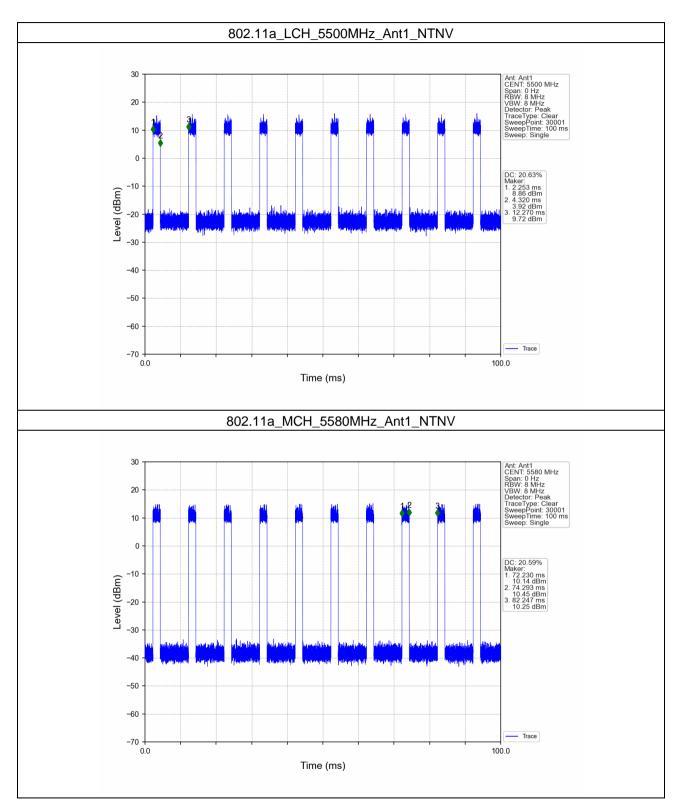
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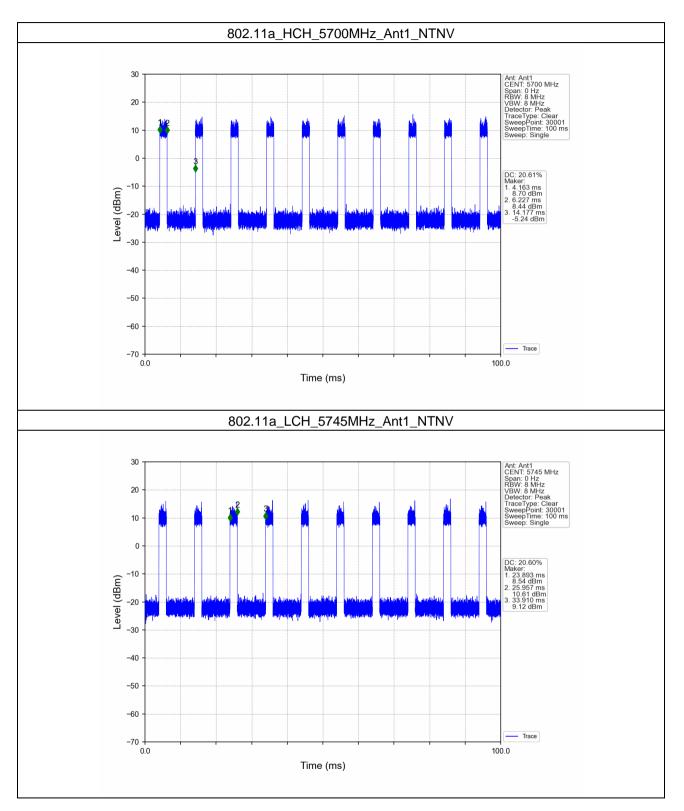
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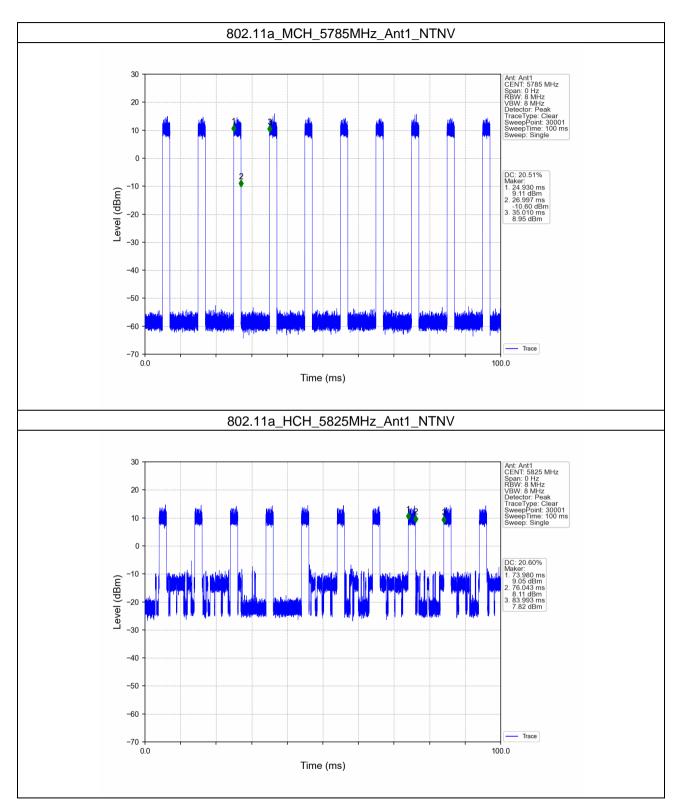
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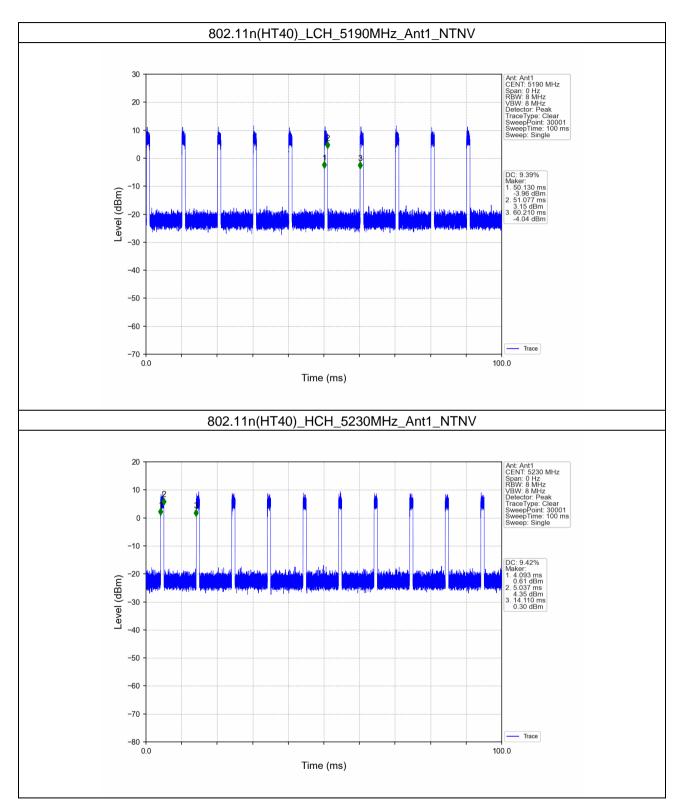
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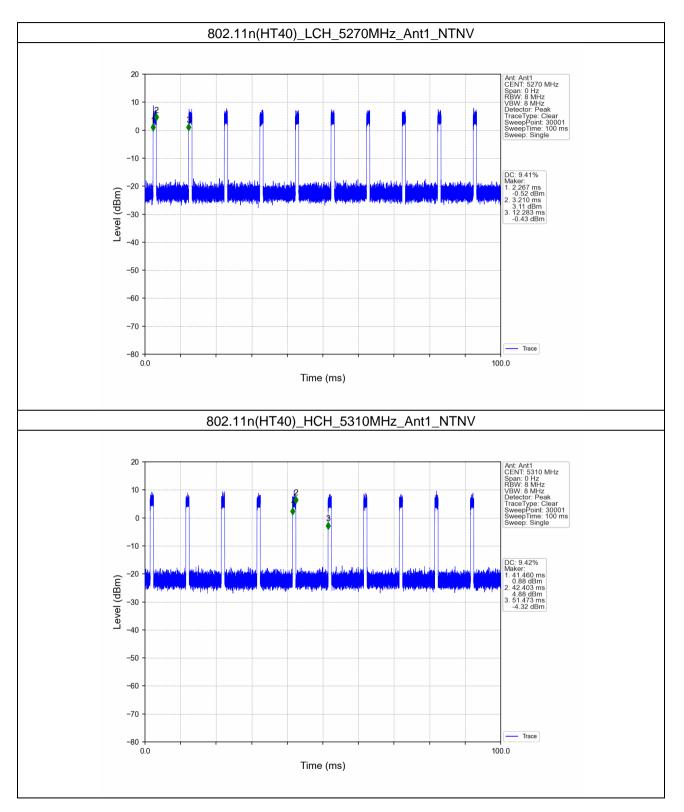
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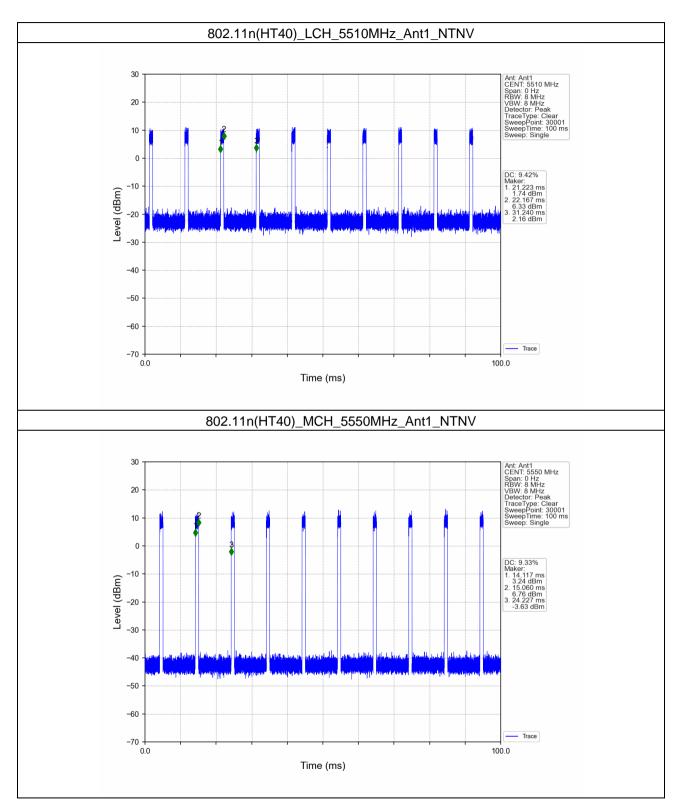
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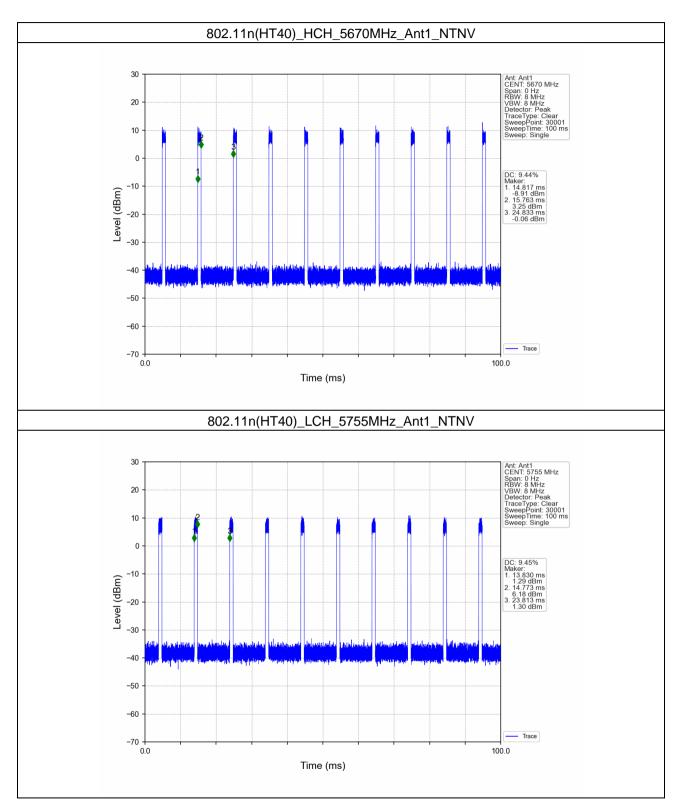
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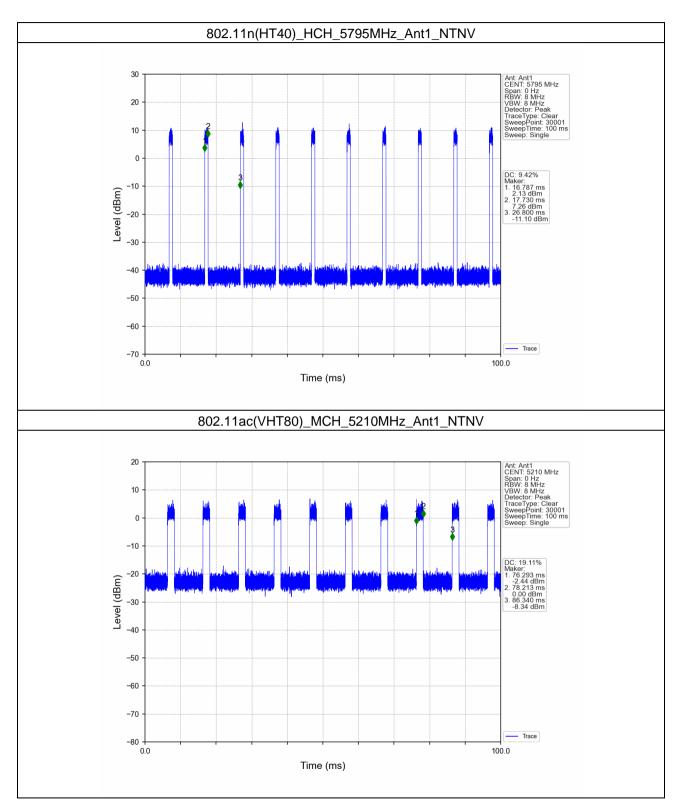
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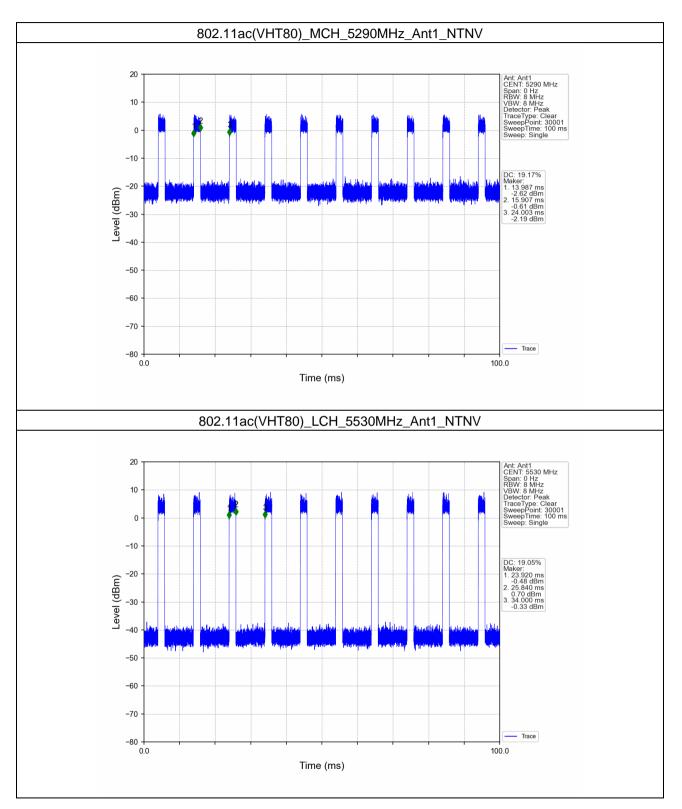
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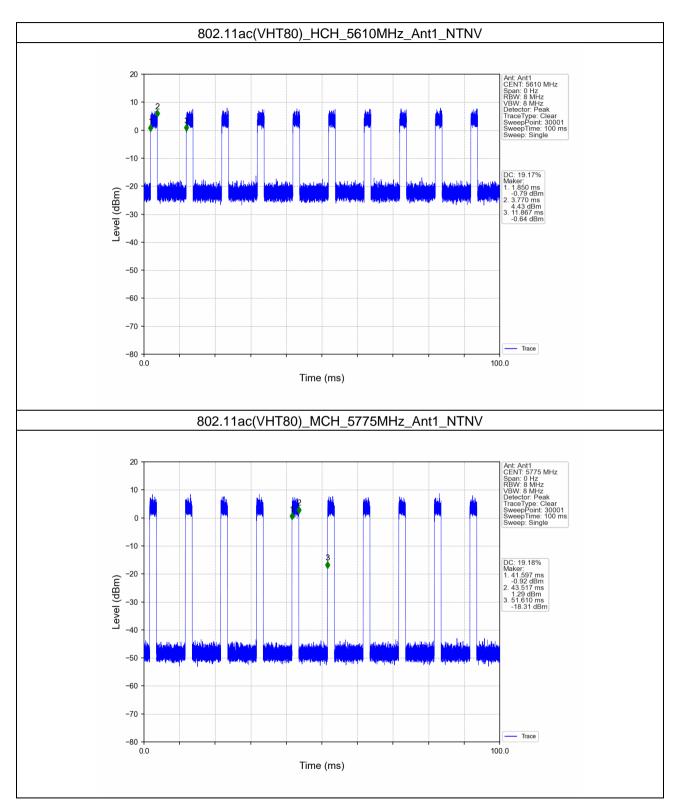
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

| Mode | ТХ Туре | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|---------------------|------------|--------------------|-----|------------------------------|---------|
| | | | | Result | |
| 802.11a | SISO | 5180 | 1 | 16.655 | Pass |
| | | 5200 | 1 | 16.657 | Pass |
| | | 5240 | 1 | 16.638 | Pass |
| | | 5260 | 1 | 16.676 | Pass |
| | | 5300 | 1 | 16.647 | Pass |
| | | 5320 | 1 | 16.715 | Pass |
| | | 5500 | 1 | 16.680 | Pass |
| | | 5580 | 1 | 16.723 | Pass |
| | | 5700 | 1 | 16.674 | Pass |
| | | 5745 | 1 | 16.650 | Pass |
| | | 5785 | 1 | 16.657 | Pass |
| | | 5825 | 1 | 16.681 | Pass |
| 802.11n (HT40) | SISO | 5190 | 1 | 36.375 | Pass |
| | | 5230 | 1 | 36.395 | Pass |
| | | 5270 | 1 | 35.190 | Pass |
| | | 5310 | 1 | 36.041 | Pass |
| | | 5510 | 1 | 36.502 | Pass |
| | | 5550 | 1 | 36.366 | Pass |
| | | 5670 | 1 | 36.523 | Pass |
| | | 5755 | 1 | 36.376 | Pass |
| | | 5795 | 1 | 36.463 | Pass |
| 802.11ac (VHT80) | SISO | 5210 | 1 | 75.080 | Pass |
| | | 5290 | 1 | 74.946 | Pass |
| | | 5530 | 1 | 75.169 | Pass |
| | | 5610 | 1 | 75.219 | Pass |
| | | 5775 | 1 | 75.176 | Pass |



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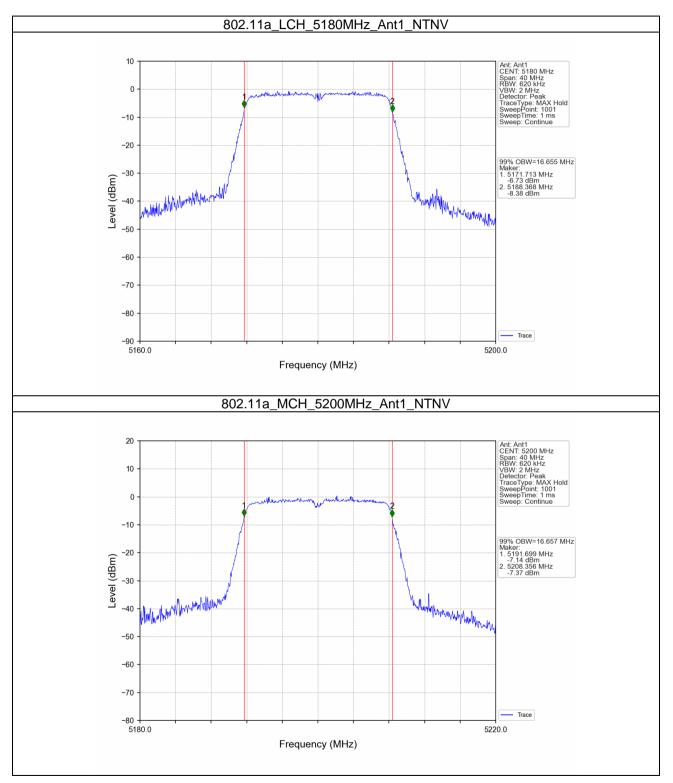
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2.1.2 Test Graph





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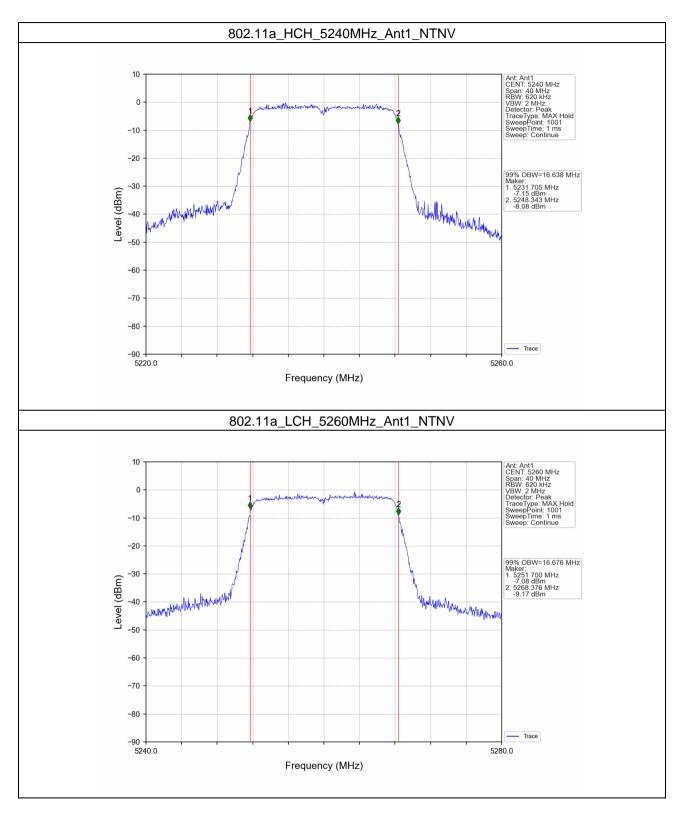
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