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Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<p>90.0 dBuV/m</p> <p>FCC Part15 Class C 3M Above-1G Peak</p> <p>FCC Part15 Class C 3M Above-1G AV</p> <p>1</p> <p>2</p> <p>90.0</p> <p>40</p> <p>-10</p> <p>1000.000 4900.00 8800.00 12700.00 16600.00 20500.00 24400.00 28300.00 32200.00 40000.00 MHz</p>																															
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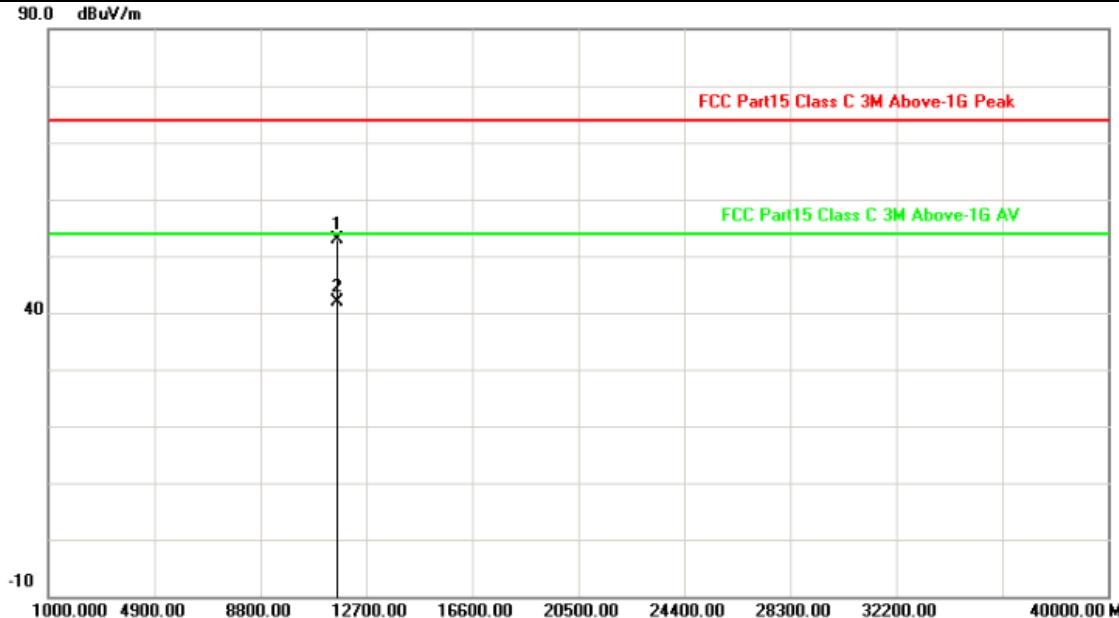


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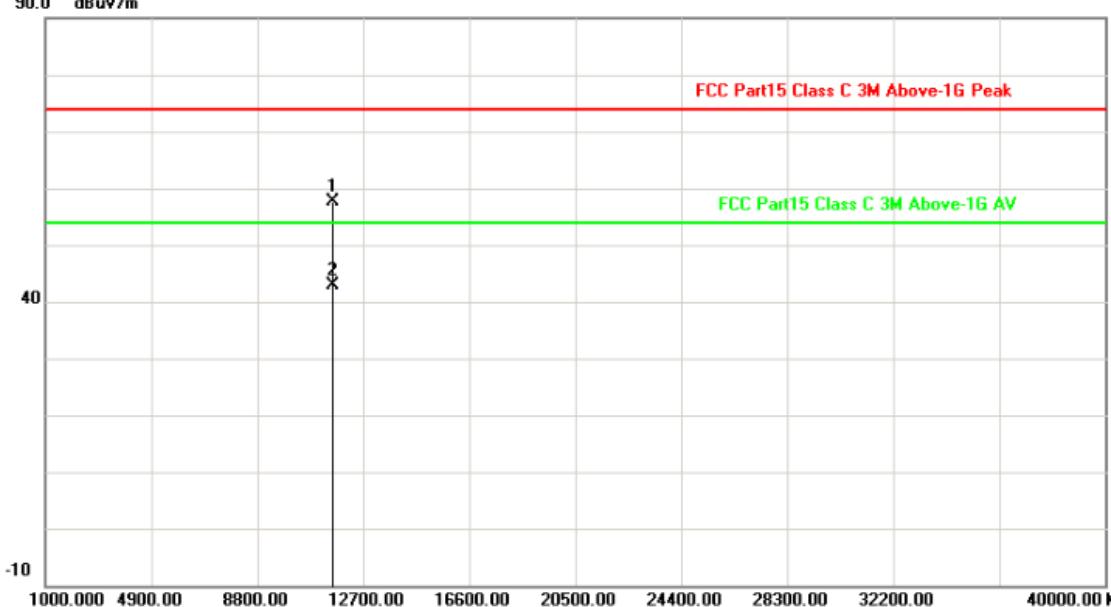


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Test Mode:	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)																														
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Test Mode:	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<p>The figure is a spectral plot with the y-axis labeled '90.0 dBuV/m' at the top and '-10' at the bottom. The x-axis is labeled '1000.000 4900.00 8800.00 12700.00 16600.00 20500.00 24400.00 28300.00 32200.00 40000.00 MHz'. There are two horizontal lines: a red line at the top labeled 'FCC Part15 Class C 3M Above-1G Peak' and a green line below it labeled 'FCC Part15 Class C 3M Above-1G AV'. A vertical line with an arrow points to the value '40' on the y-axis, indicating the measurement level.</p>																															
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<p>90.0 dBuV/m</p> <p>90.0 dBuV/m</p> <p>FCC Part15 Class C 3M Above-1G Peak</p> <p>FCC Part15 Class C 3M Above-1G AV</p> <p>90.0</p> <p>40</p> <p>-10</p> <p>1000.000 4900.00 8800.00 12700.00 16600.00 20500.00 24400.00 28300.00 32200.00 40000.00 MHz</p>																															
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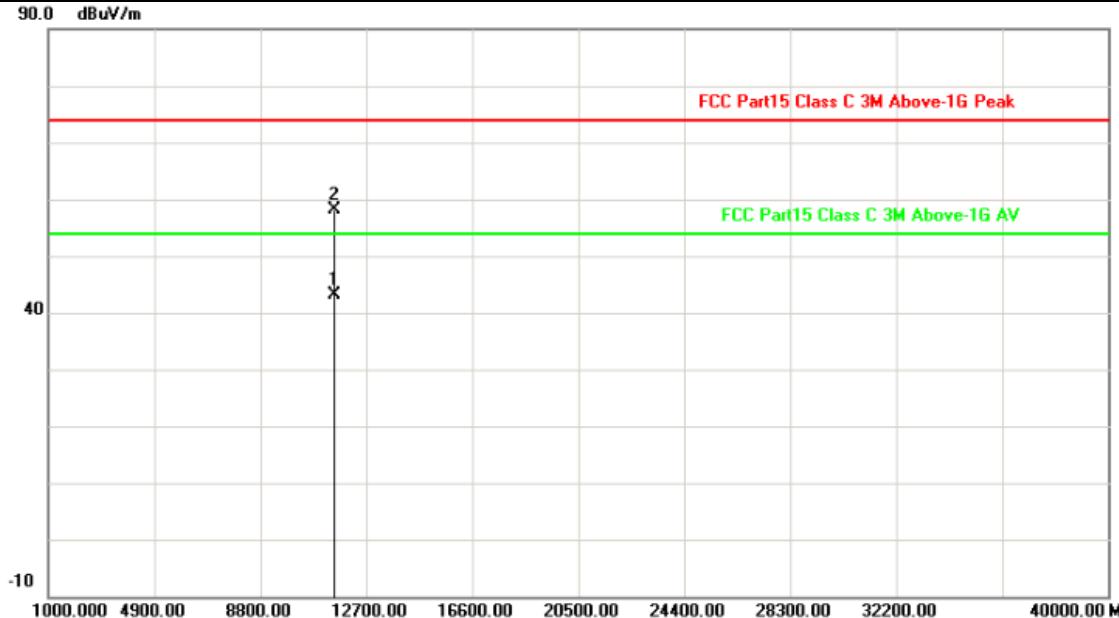


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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11509.502	7.42	35.82	43.24	54.00	-10.76	AVG																								
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11589.490	7.37	50.58	57.95	74.00	-16.05	peak																								
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Test Mode:	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11589.448</td><td>7.37</td><td>50.89</td><td>58.26</td><td>74.00</td><td>-15.74</td><td>peak</td></tr><tr><td>2</td><td>11589.346</td><td>7.37</td><td>35.38</td><td>42.75</td><td>54.00</td><td>-11.25</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11589.448	7.37	50.89	58.26	74.00	-15.74	peak	2	11589.346	7.37	35.38	42.75	54.00	-11.25	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11589.448	7.37	50.89	58.26	74.00	-15.74	peak																								
2	11589.346	7.37	35.38	42.75	54.00	-11.25	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor</p> <p>2. Margin value = Level - Limit value</p>																															



Ant. Pol.	Horizontal																													
Test Mode:	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)																													
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																													
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11547.500</td><td>7.40</td><td>35.37</td><td>42.77</td><td>54.00</td><td>-11.23</td><td>AVG</td></tr><tr><td>2</td><td>11548.990</td><td>7.41</td><td>50.21</td><td>57.62</td><td>74.00</td><td>-16.38</td><td>peak</td></tr></tbody></table>							No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11547.500	7.40	35.37	42.77	54.00	-11.23	AVG	2	11548.990	7.41	50.21	57.62	74.00	-16.38	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																							
1	11547.500	7.40	35.37	42.77	54.00	-11.23	AVG																							
2	11548.990	7.41	50.21	57.62	74.00	-16.38	peak																							
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																														



Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<p>90.0 dBuV/m</p> <p>FCC Part15 Class C 3M Above-1G Peak</p> <p>FCC Part15 Class C 3M Above-1G AV</p> <p>11548.578 11549.835</p> <p>1000.000 4900.00 8800.00 12700.00 16600.00 20500.00 24400.00 28300.00 32200.00 40000.00 MHz</p>																															
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11548.578</td><td>7.41</td><td>35.36</td><td>42.77</td><td>54.00</td><td>-11.23</td><td>AVG</td></tr><tr><td>2</td><td>11549.835</td><td>7.41</td><td>50.18</td><td>57.59</td><td>74.00</td><td>-16.41</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11548.578	7.41	35.36	42.77	54.00	-11.23	AVG	2	11549.835	7.41	50.18	57.59	74.00	-16.41	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11548.578	7.41	35.36	42.77	54.00	-11.23	AVG																								
2	11549.835	7.41	50.18	57.59	74.00	-16.41	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

### 3.3. Band Edge Emissions

#### Limit

##### Limits of unwanted emission out of the restricted bands

FCC CFR Title 47 Part 15 Subpart C Section 15.407(b)/ RSS-247 6.2.1.2 & RSS-247 6.2.4.2

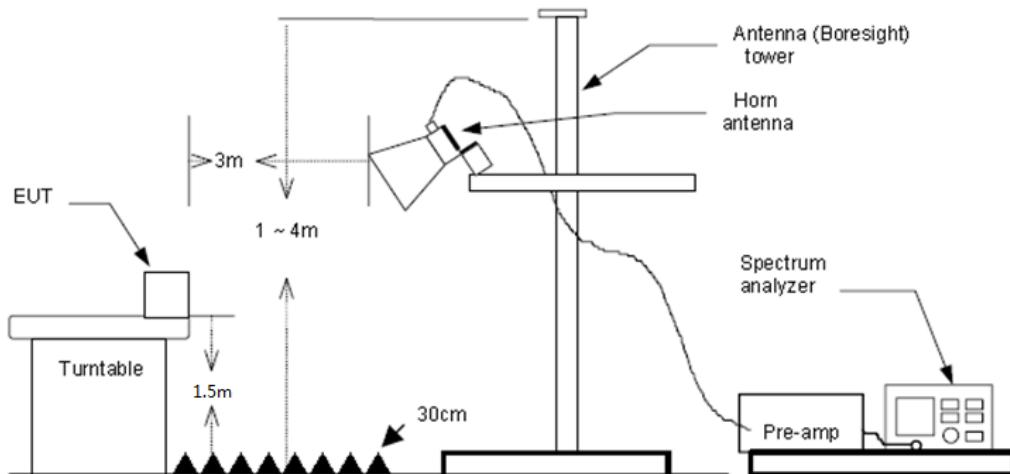
Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150~5250	-27	68.2
5250~5350	-27	68.2
5470~5725	-27	68.2
5725~5825	-27(Note 2)	68.2
	10(Note 2)	105.2
	15.6(Note 2)	110.8
	27(Note 2)	122.2

Note: 1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field

$$\text{strength: } E = \frac{1000000\sqrt{30P}}{3} \text{ uV/m, where } P \text{ is the eirp (Watts)}$$

2. According to FCC 16-24, 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 25MHz 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 27dBm/MHz at the band edge.

#### Test Configuration



#### Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:

CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China  
Tel.: (86)755-27521059 Fax: (86)755-27521011 [Http://www.sz-ctc.org.cn](http://www.sz-ctc.org.cn)



RBW=1MHz, VBW=3MHz PEAK detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause Appendix E: Duty Cycle

### Test Mode

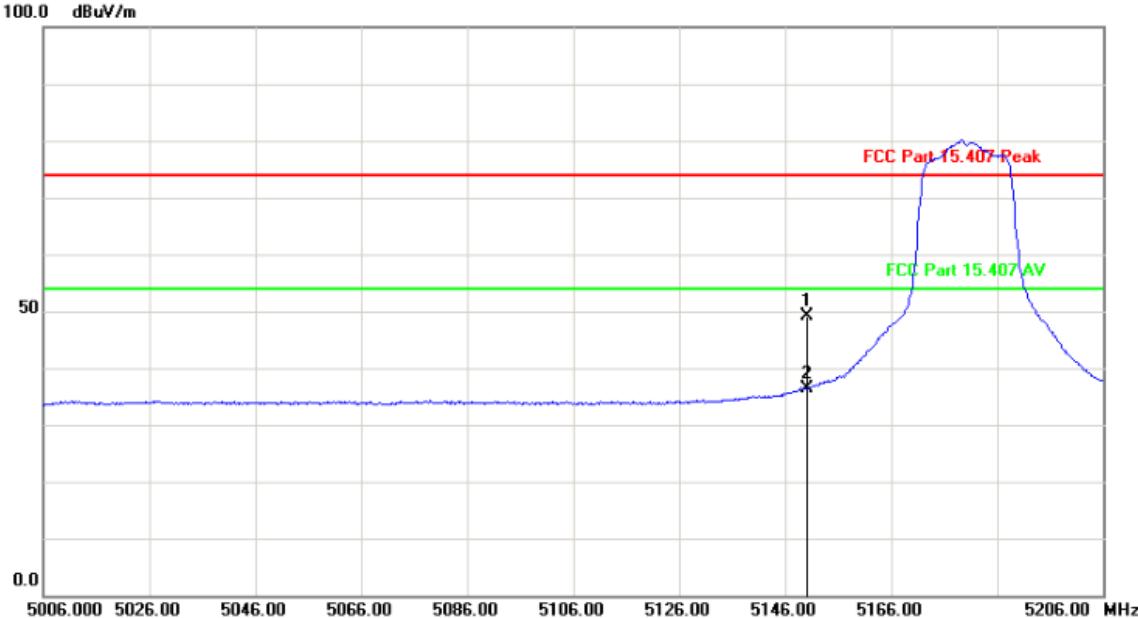
Please refer to the clause 2.4.

### Test Results

Pre-scan all antenna, only show the test data for worse case antenna on the test report.

Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5150.000</td><td>-1.92</td><td>55.77</td><td>53.85</td><td>74.00</td><td>-20.15</td><td>peak</td></tr><tr><td>2</td><td>5150.000</td><td>-1.92</td><td>39.42</td><td>37.50</td><td>54.00</td><td>-16.50</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5150.000	-1.92	55.77	53.85	74.00	-20.15	peak	2	5150.000	-1.92	39.42	37.50	54.00	-16.50	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5150.000	-1.92	55.77	53.85	74.00	-20.15	peak																								
2	5150.000	-1.92	39.42	37.50	54.00	-16.50	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.	Vertical																															
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																															
																																
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
1	5150.000	-1.92	51.17	49.25	74.00	-24.75	peak																									
2	5150.000	-1.92	38.22	36.30	54.00	-17.70	AVG																									
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																																



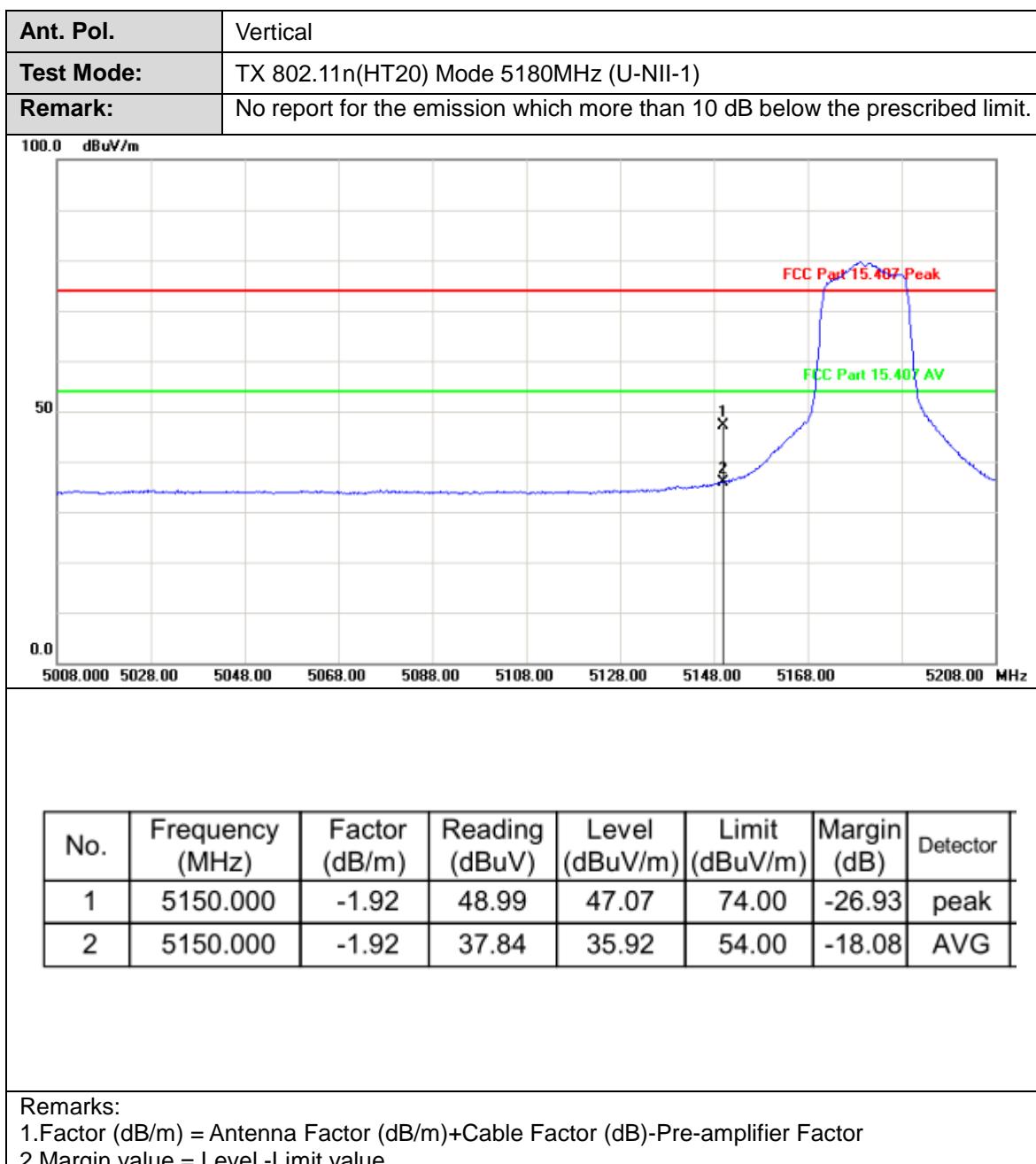
Ant. Pol.	Horizontal																															
Test Mode:	TX 802.11a Mode 5320MHz (U-NII-2A)																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
1	5350.000	-1.45	55.55	54.10	74.00	-19.90	peak																									
2	5350.000	-1.45	42.95	41.50	54.00	-12.50	AVG																									
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																																



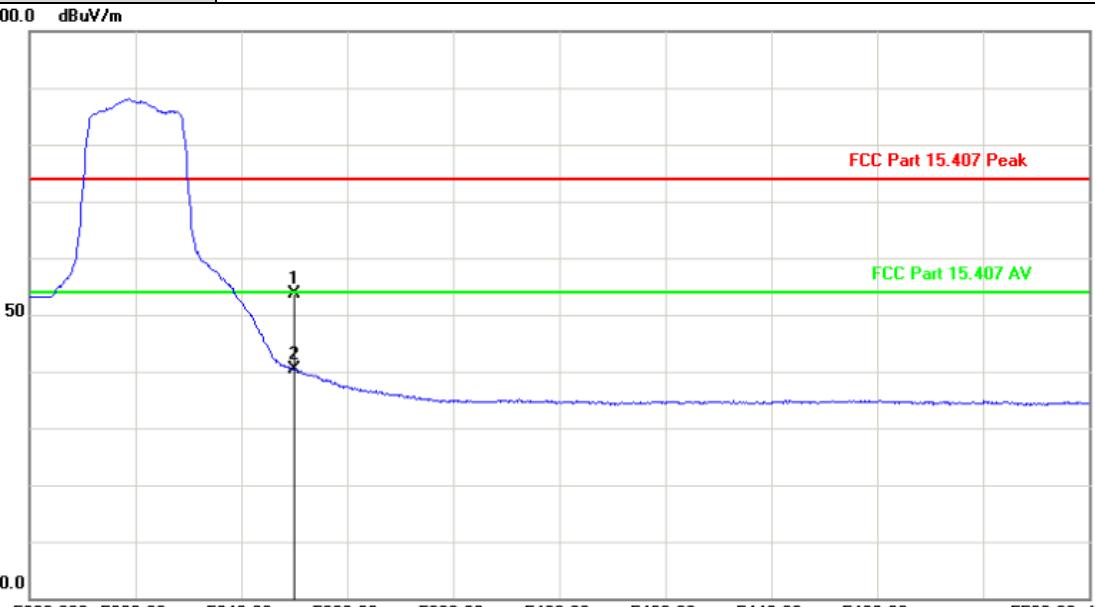
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11a Mode 5320MHz (U-NII-2A)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	53.70	52.25	74.00	-21.75	peak																								
2	5350.000	-1.45	40.52	39.07	54.00	-14.93	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

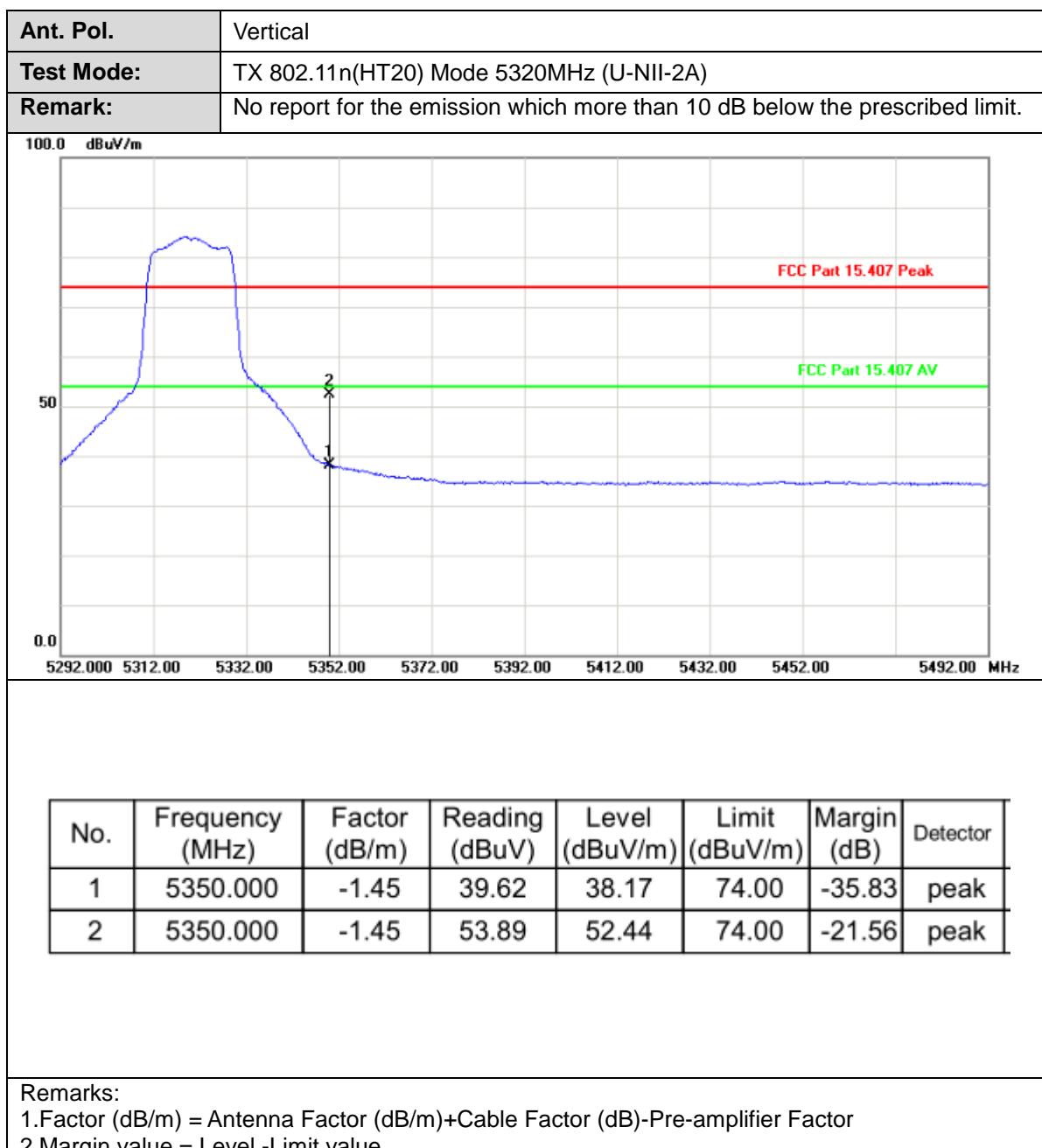


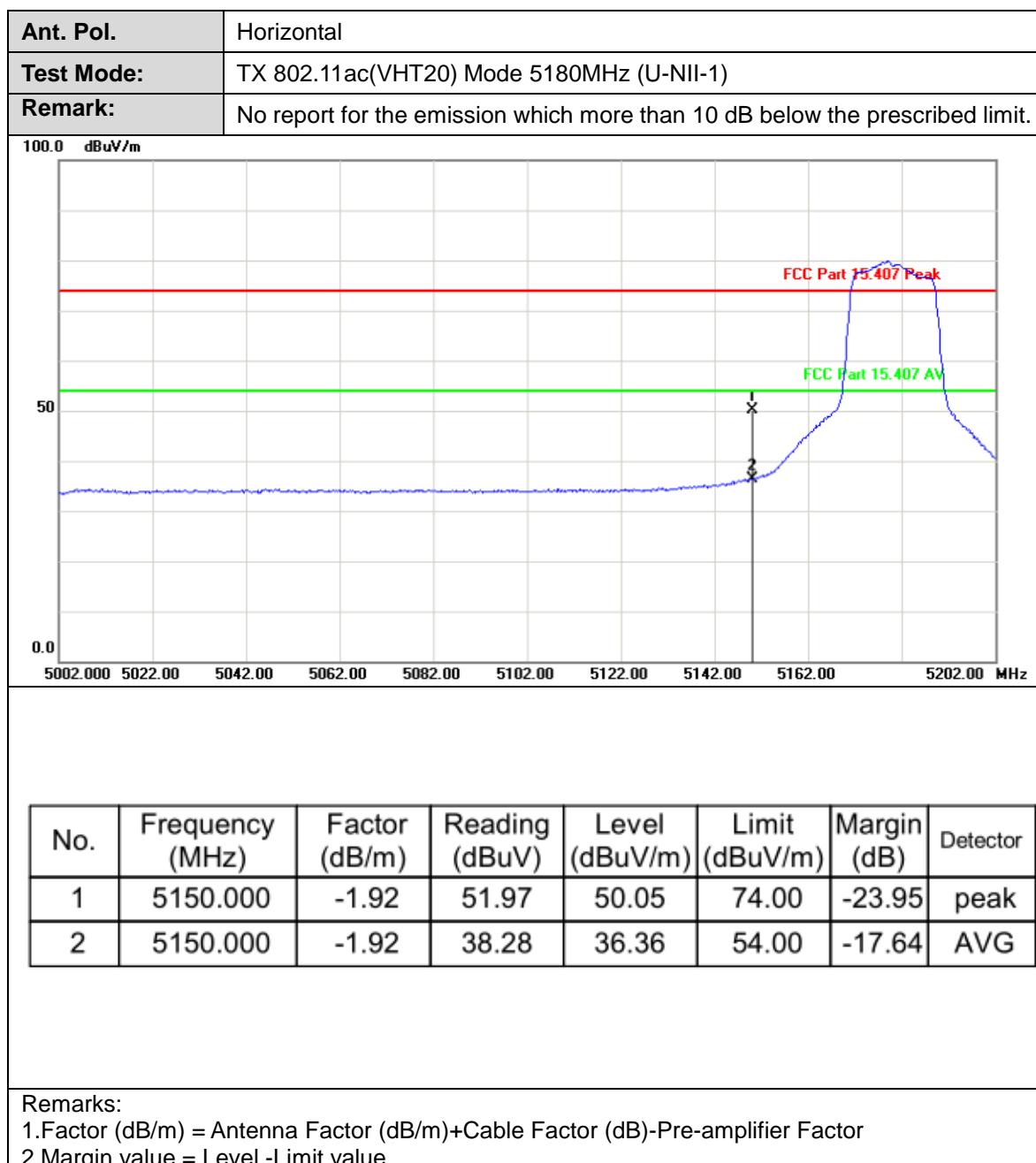
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5150.000	-1.92	50.97	49.05	74.00	-24.95	peak																								
2	5150.000	-1.92	39.07	37.15	54.00	-16.85	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



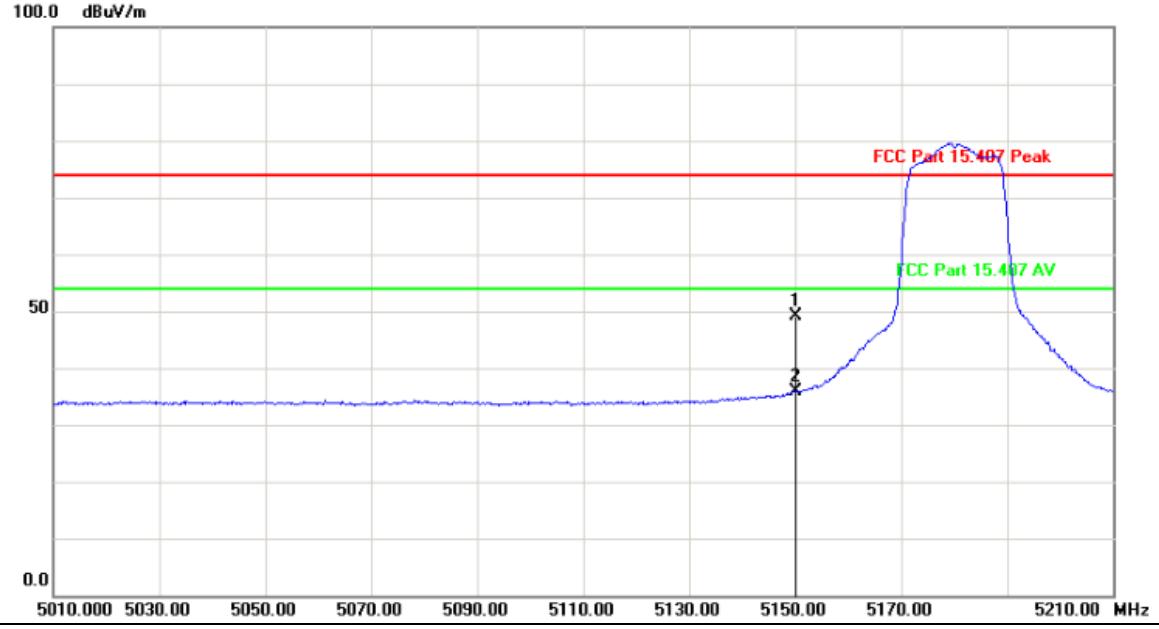


Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11n(HT20) Mode 5320MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	55.20	53.75	74.00	-20.25	peak																								
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<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor</p> <p>2. Margin value = Level - Limit value</p>																															





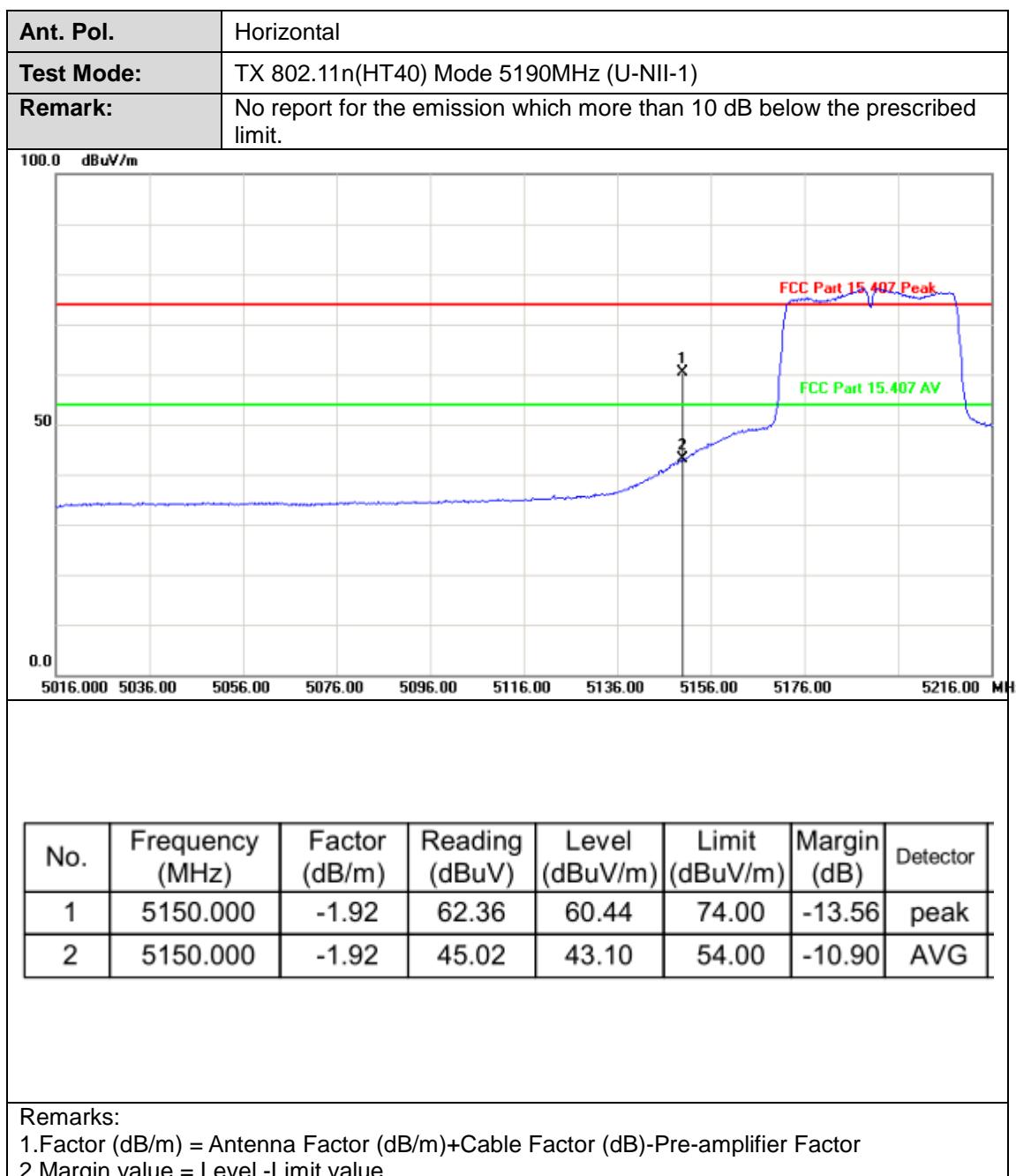


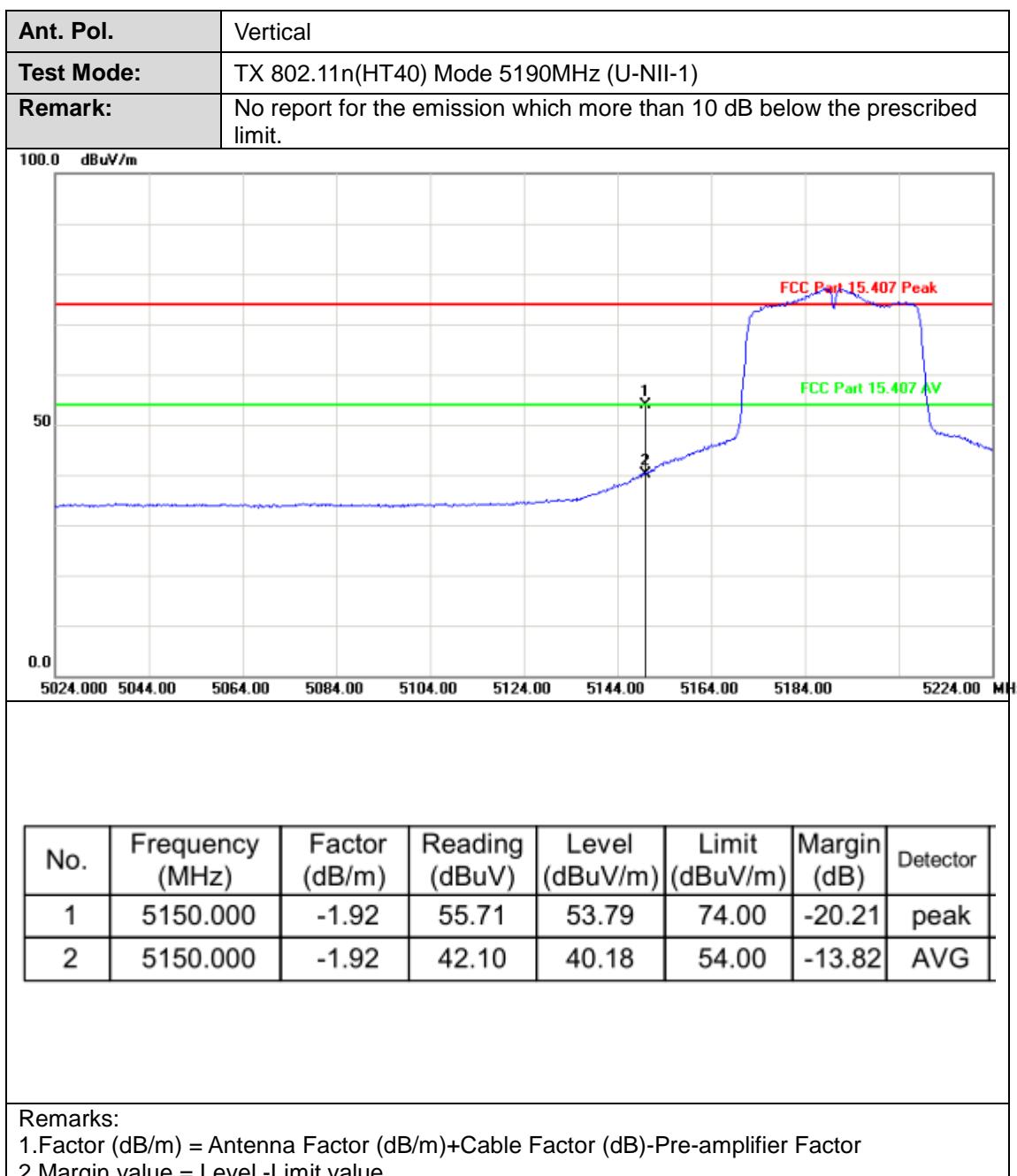
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5150.000	-1.92	50.94	49.02	74.00	-24.98	peak																								
2	5150.000	-1.92	37.73	35.81	54.00	-18.19	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5320MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<p>100.0 dBuV/m</p> <p>5298.000 5318.00 5338.00 5358.00 5378.00 5398.00 5418.00 5438.00 5458.00 5498.00 MHz</p>																															
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5350.000</td><td>-1.45</td><td>54.14</td><td>52.69</td><td>74.00</td><td>-21.31</td><td>peak</td></tr><tr><td>2</td><td>5350.000</td><td>-1.45</td><td>41.70</td><td>40.25</td><td>54.00</td><td>-13.75</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5350.000	-1.45	54.14	52.69	74.00	-21.31	peak	2	5350.000	-1.45	41.70	40.25	54.00	-13.75	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	54.14	52.69	74.00	-21.31	peak																								
2	5350.000	-1.45	41.70	40.25	54.00	-13.75	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor</p> <p>2. Margin value = Level - Limit value</p>																															

Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ac(VHT20) Mode 5320MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<p>The plot shows a blue line representing the measured spectral emission. A red horizontal line at approximately 74 dBuV/m is labeled 'FCC Part 15.407 Peak'. A green horizontal line at approximately 54 dBuV/m is labeled 'FCC Part 15.407 AV'. Two vertical lines drop from the plot to the data table below, labeled '1' and '2', corresponding to the measurement points at 5350.000 MHz.</p>																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	53.05	51.60	74.00	-22.40	peak																								
2	5350.000	-1.45	39.71	38.26	54.00	-15.74	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															







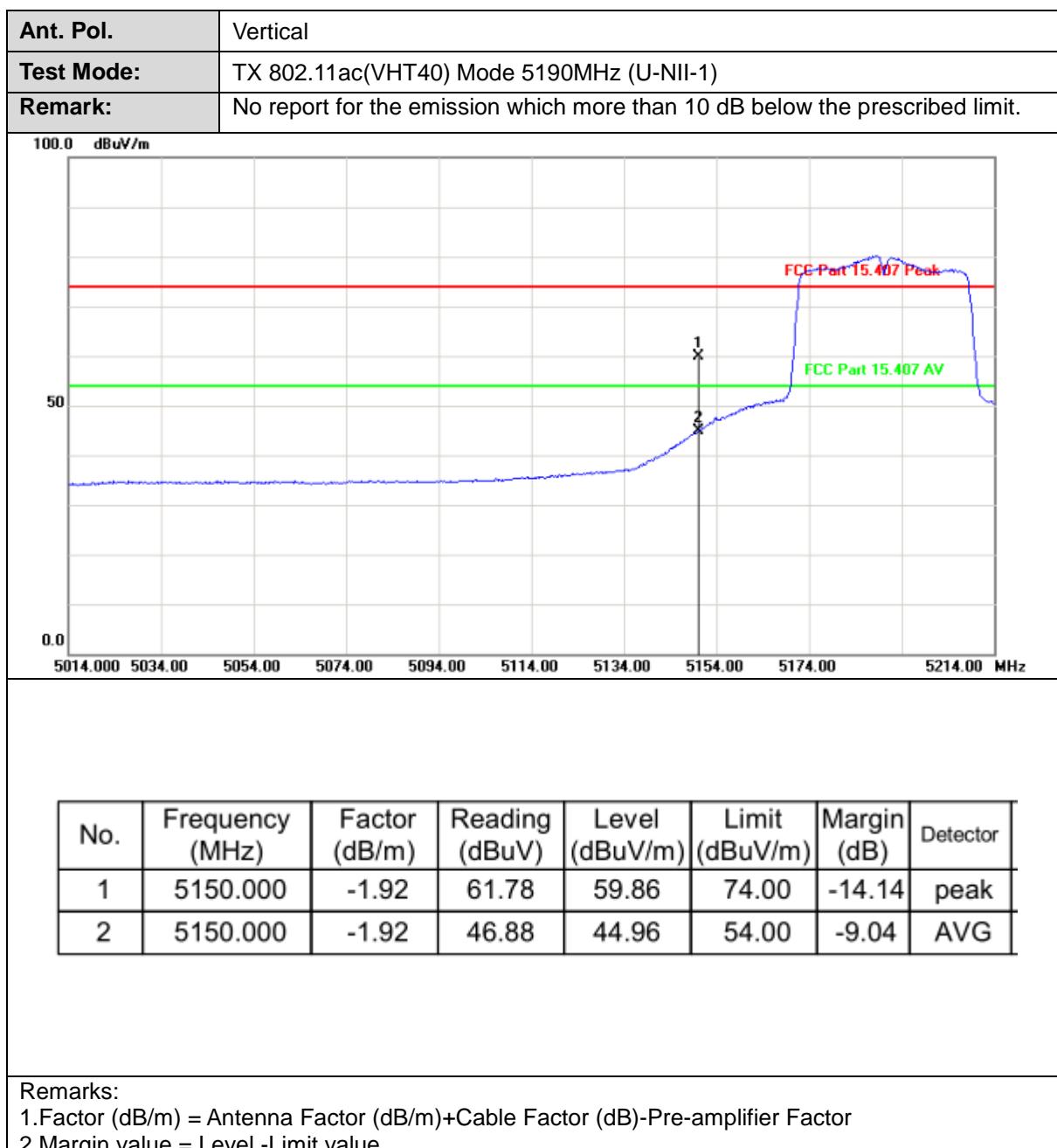
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11n(HT40) Mode 5310MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	68.65	67.20	74.00	-6.80	peak																								
2	5350.000	-1.45	51.97	50.52	54.00	-3.48	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor</p> <p>2. Margin value = Level - Limit value</p>																															



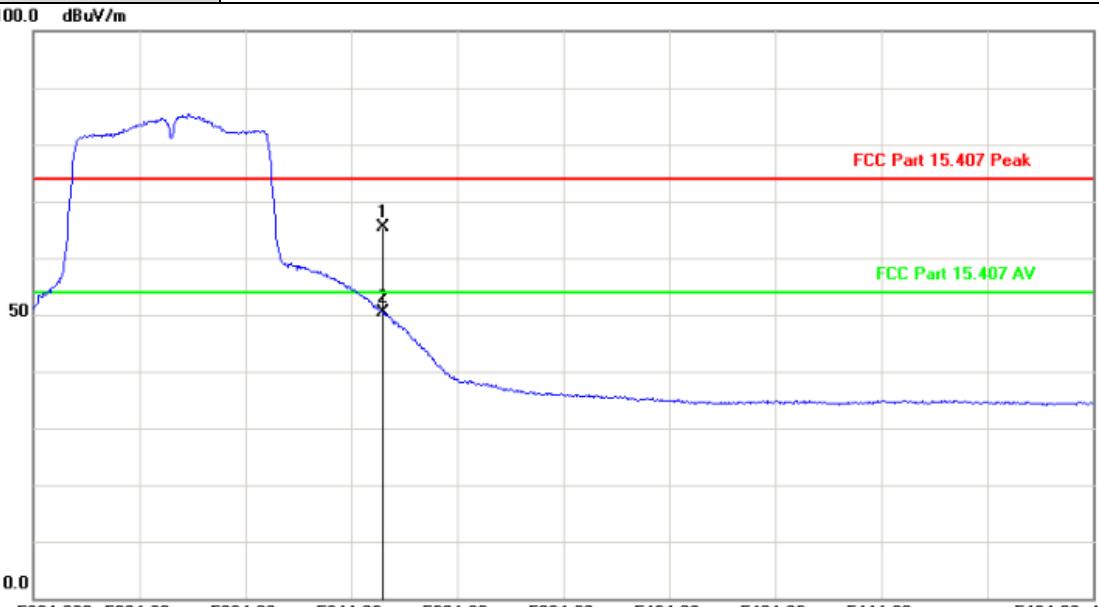
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11n(HT40) Mode 5310MHz (U-NII-2A)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	65.28	63.83	74.00	-10.17	peak																								
2	5350.000	-1.45	48.95	47.50	54.00	-6.50	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



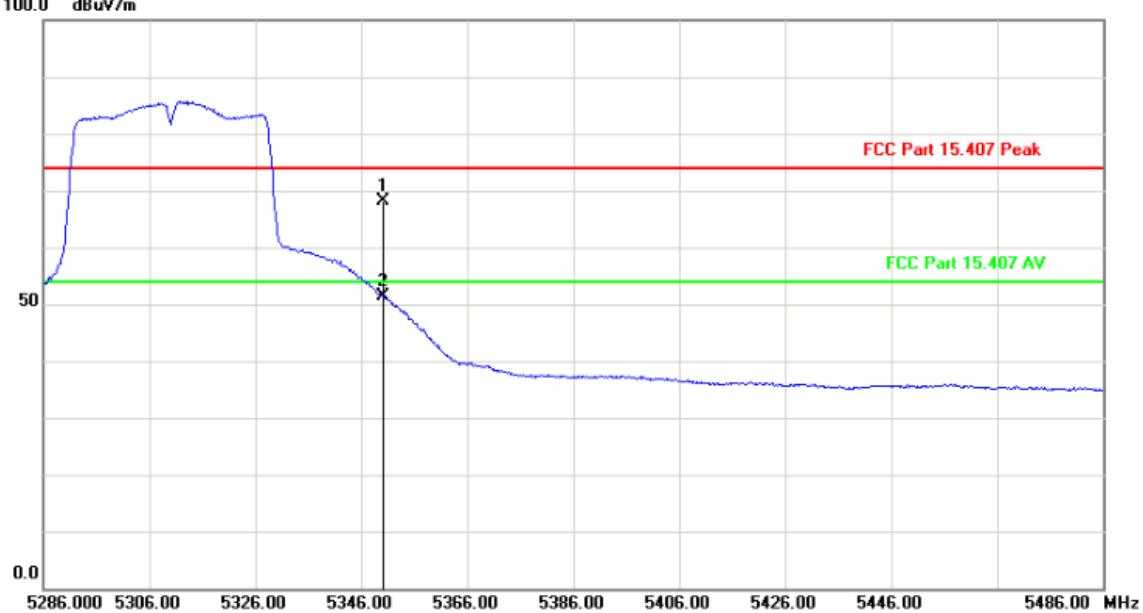
Ant. Pol.	Horizontal																															
Test Mode:	TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
1	5150.000	-1.92	59.72	57.80	74.00	-16.20	peak																									
2	5150.000	-1.92	44.88	42.96	54.00	-11.04	AVG																									
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor</p> <p>2. Margin value = Level - Limit value</p>																																

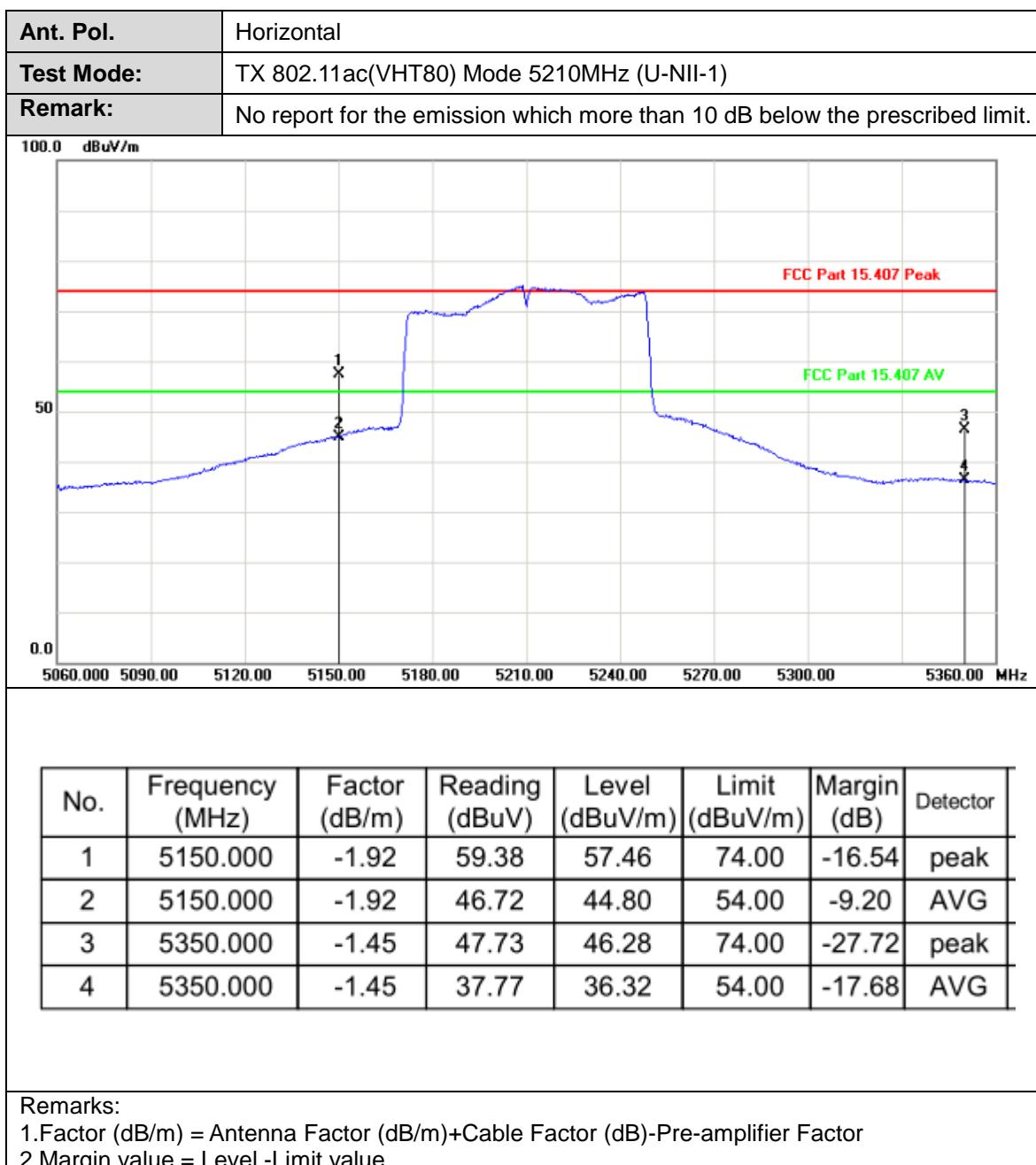




Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT40) Mode 5310MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
 <p>The graph plots dBuV/m on the y-axis (0.0 to 100.0) against MHz on the x-axis (5284.000 to 5484.000). A blue line represents the measured spectrum. A red horizontal line at approximately 74 dBuV/m is labeled 'FCC Part 15.407 Peak'. A green horizontal line at approximately 54 dBuV/m is labeled 'FCC Part 15.407 AV'. The blue line starts at 50 dBuV/m at 5284.000 MHz, rises to a peak of about 85 dBuV/m at 5304.000 MHz, then drops sharply to around 55 dBuV/m at 5324.000 MHz. It then gradually declines to about 35 dBuV/m by 5444.000 MHz.</p>																															
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1	5350.000	-1.45	66.82	65.37	74.00	-8.63	peak																								
2	5350.000	-1.45	51.91	50.46	54.00	-3.54	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor</p> <p>2. Margin value = Level - Limit value</p>																															

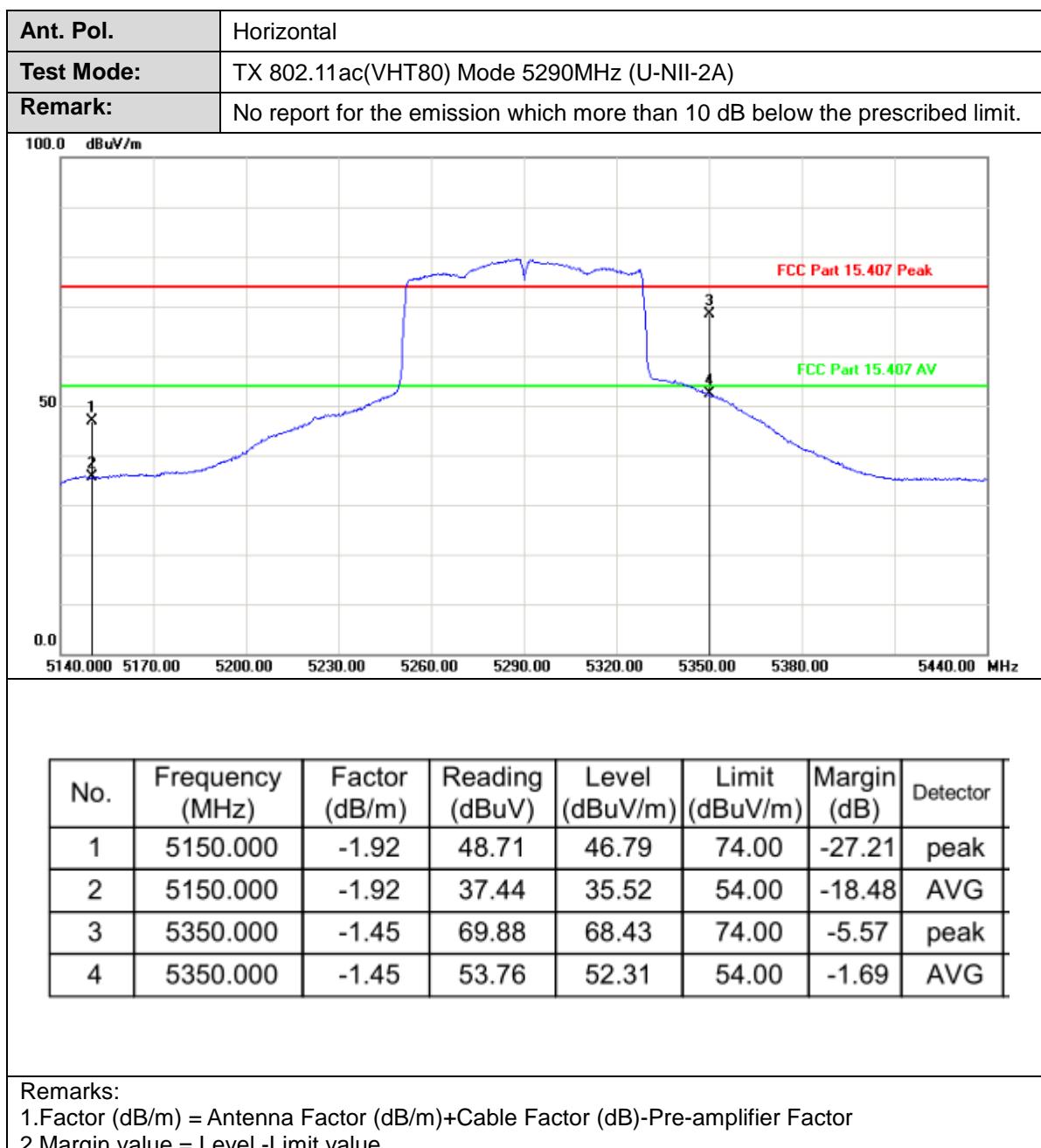


Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ac(VHT40) Mode 5310MHz (U-NII-2A)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	69.68	68.23	74.00	-5.77	peak																								
2	5350.000	-1.45	52.87	51.42	54.00	-2.58	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

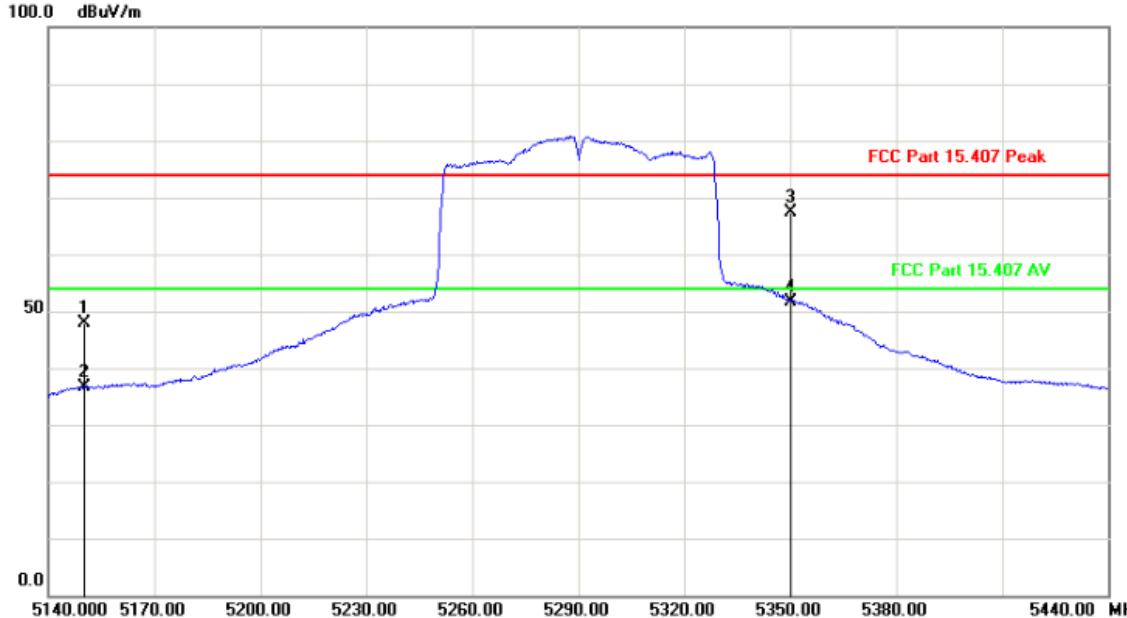




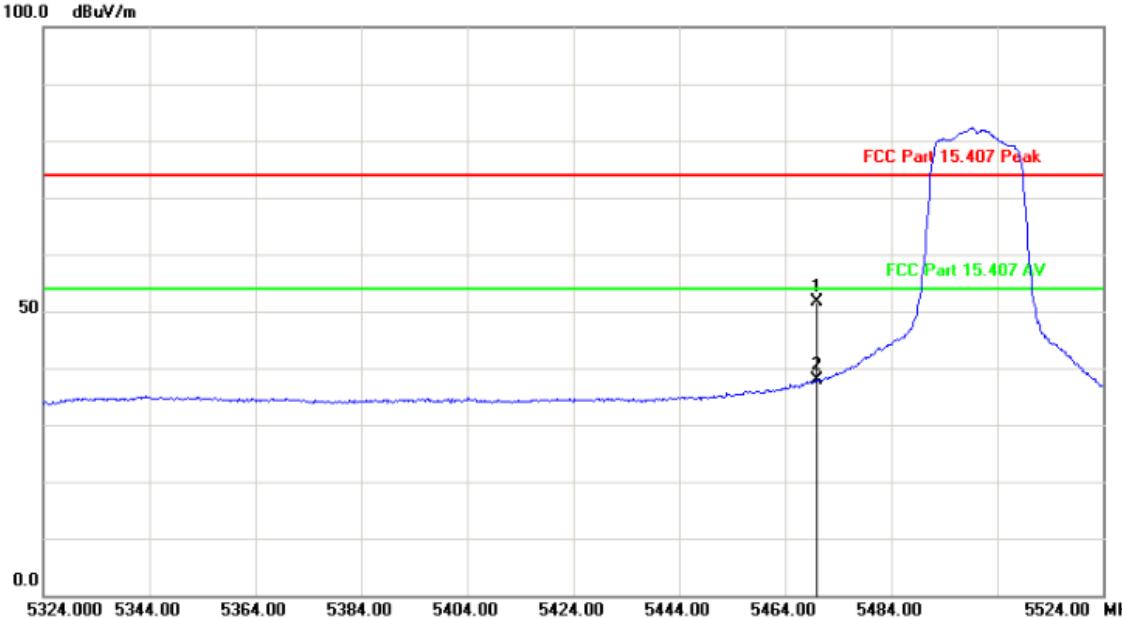
Ant. Pol.	Vertical																																															
Test Mode:	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)																																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																																									
1	5150.000	-1.92	61.51	59.59	74.00	-14.41	peak																																									
2	5150.000	-1.92	49.01	47.09	54.00	-6.91	AVG																																									
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Ant. Pol.	Vertical																																															
Test Mode:	TX 802.11ac(VHT80) Mode 5290MHz (U-NII-2A)																																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																																															
																																																
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																																									
1	5150.000	-1.92	49.77	47.85	74.00	-26.15	peak																																									
2	5150.000	-1.92	38.48	36.56	54.00	-17.44	AVG																																									
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4	5350.000	-1.45	53.06	51.61	54.00	-2.39	AVG																																									
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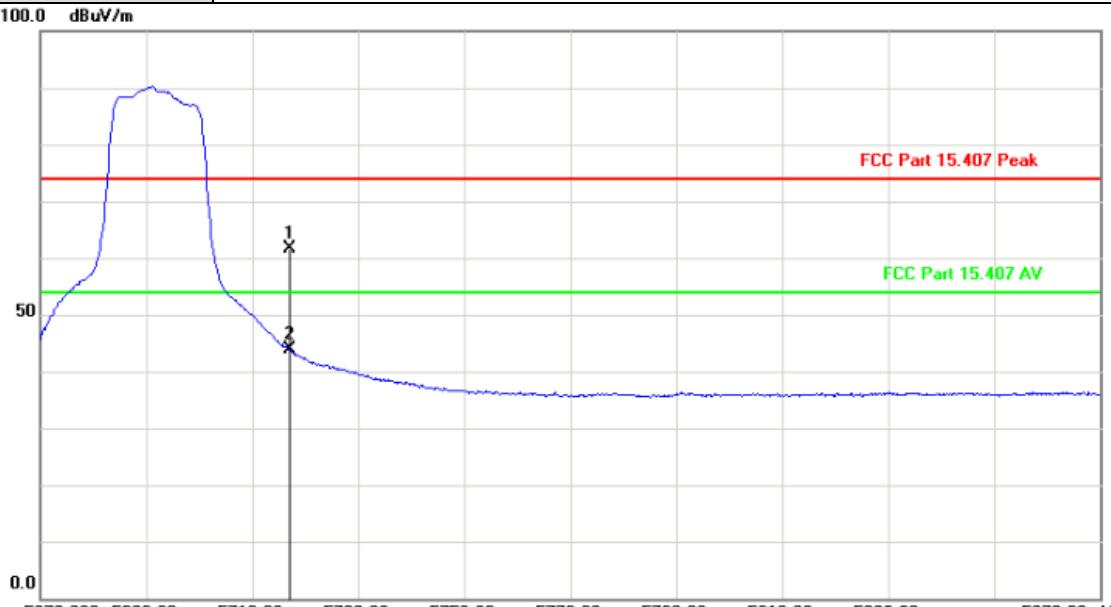


Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11a Mode 5500MHz (U-NII-2C)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5470.000	-1.17	52.90	51.73	74.00	-22.27	peak																								
2	5470.000	-1.17	39.01	37.84	54.00	-16.16	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

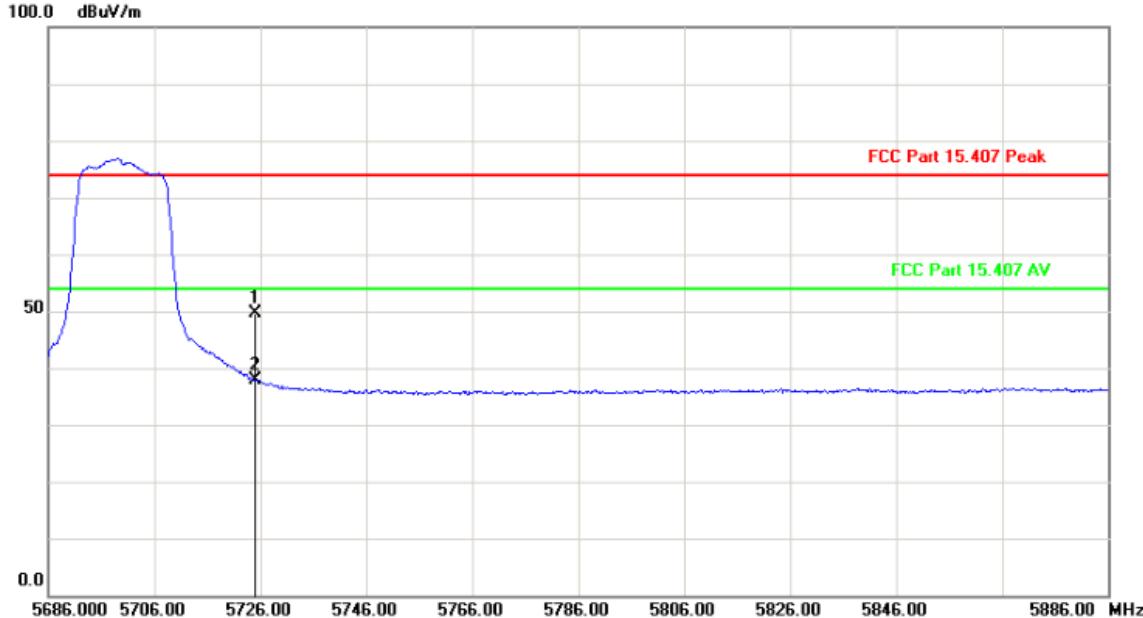


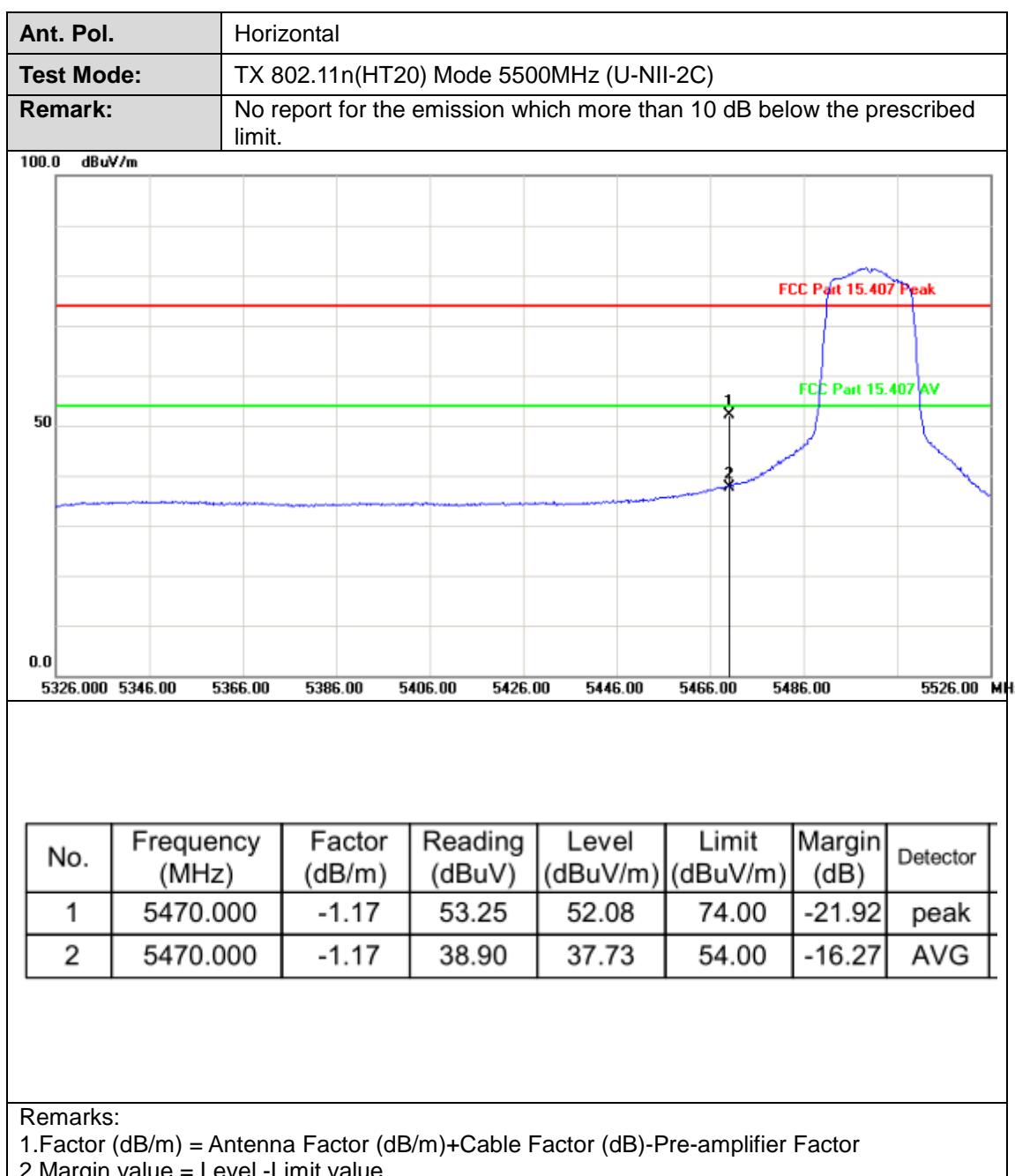
Ant. Pol.	Vertical																															
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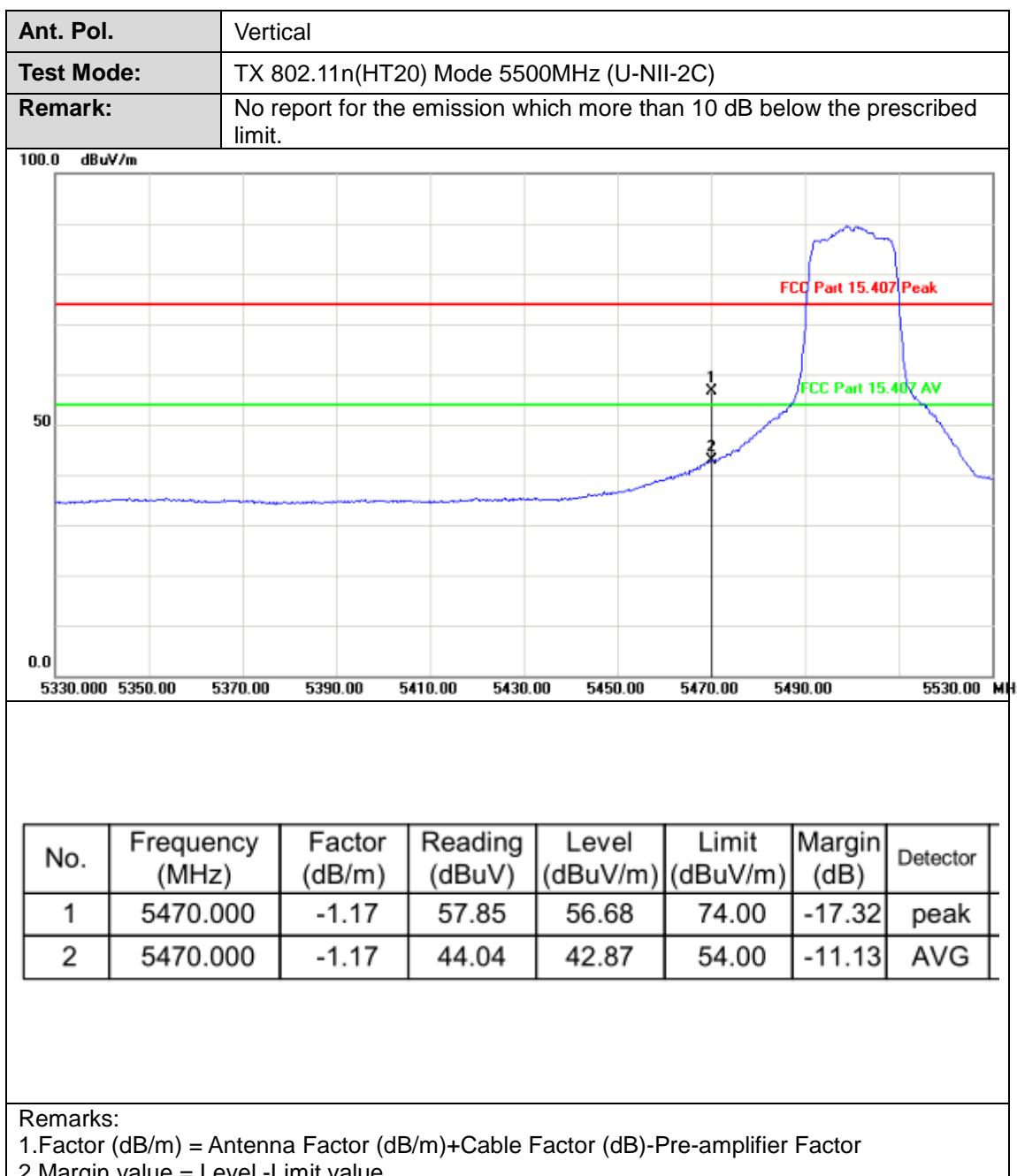


Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11a Mode 5700MHz (U-NII-2C)																														
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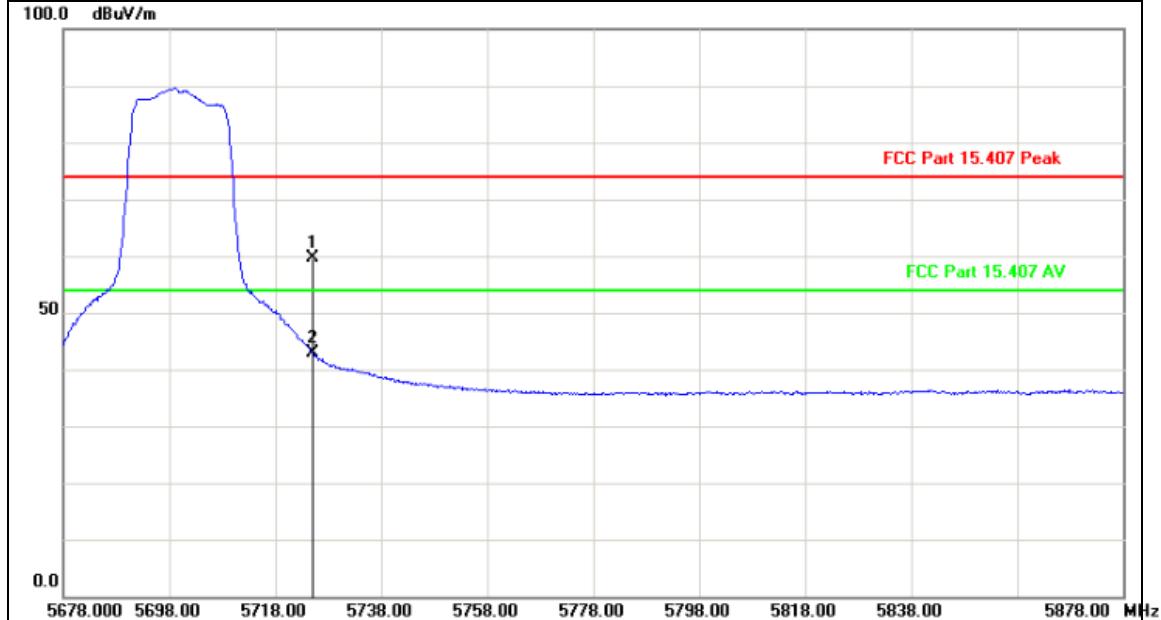
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Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 5700MHz (U-NII-2C)
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	-0.22	59.95	59.73	74.00	-14.27	peak
2	5725.000	-0.22	43.12	42.90	54.00	-11.10	AVG

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
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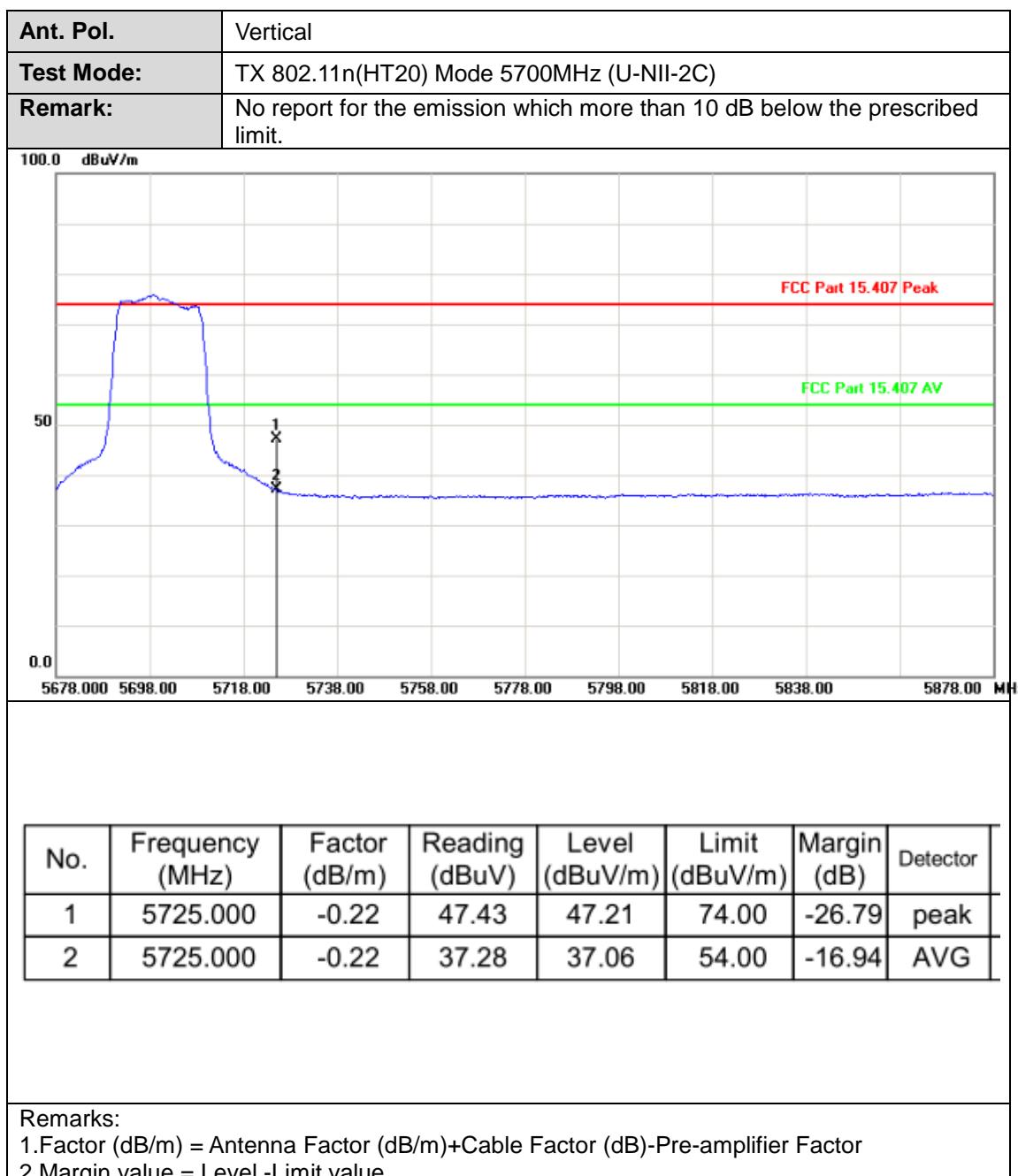
CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China  
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Http://www.sz-ctc.org.cn

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : [yz.cnca.cn](http://yz.cnca.cn)





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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
1	5470.000	-1.17	57.84	56.67	74.00	-17.33	peak																									
2	5470.000	-1.17	43.57	42.40	54.00	-11.60	AVG																									
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1	5725.000	-0.22	59.92	59.70	74.00	-14.30	peak																								
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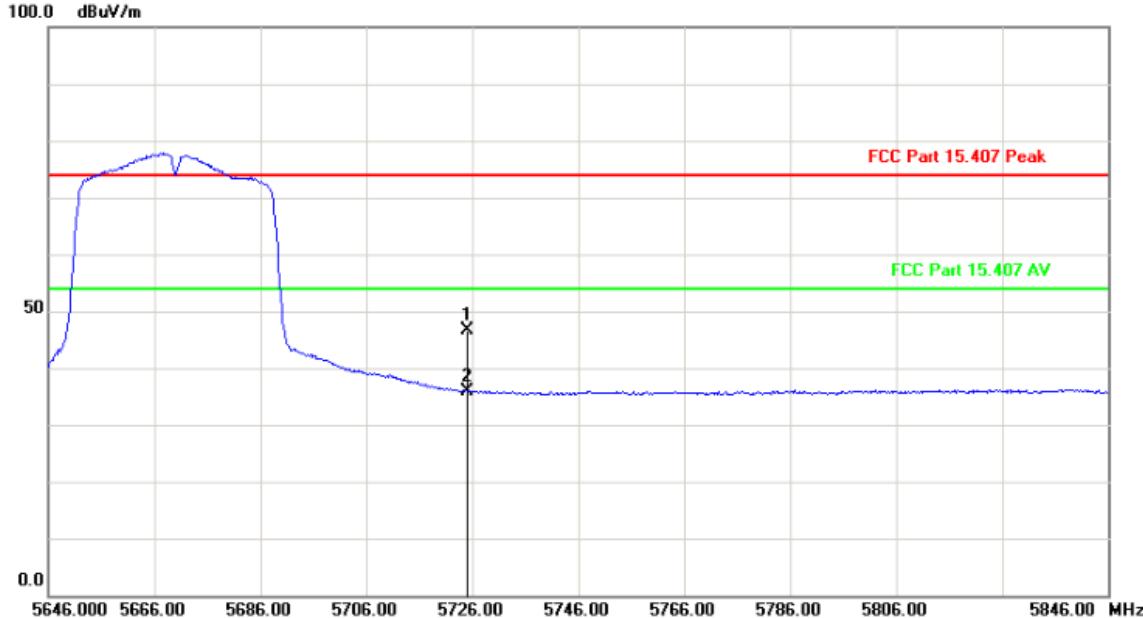


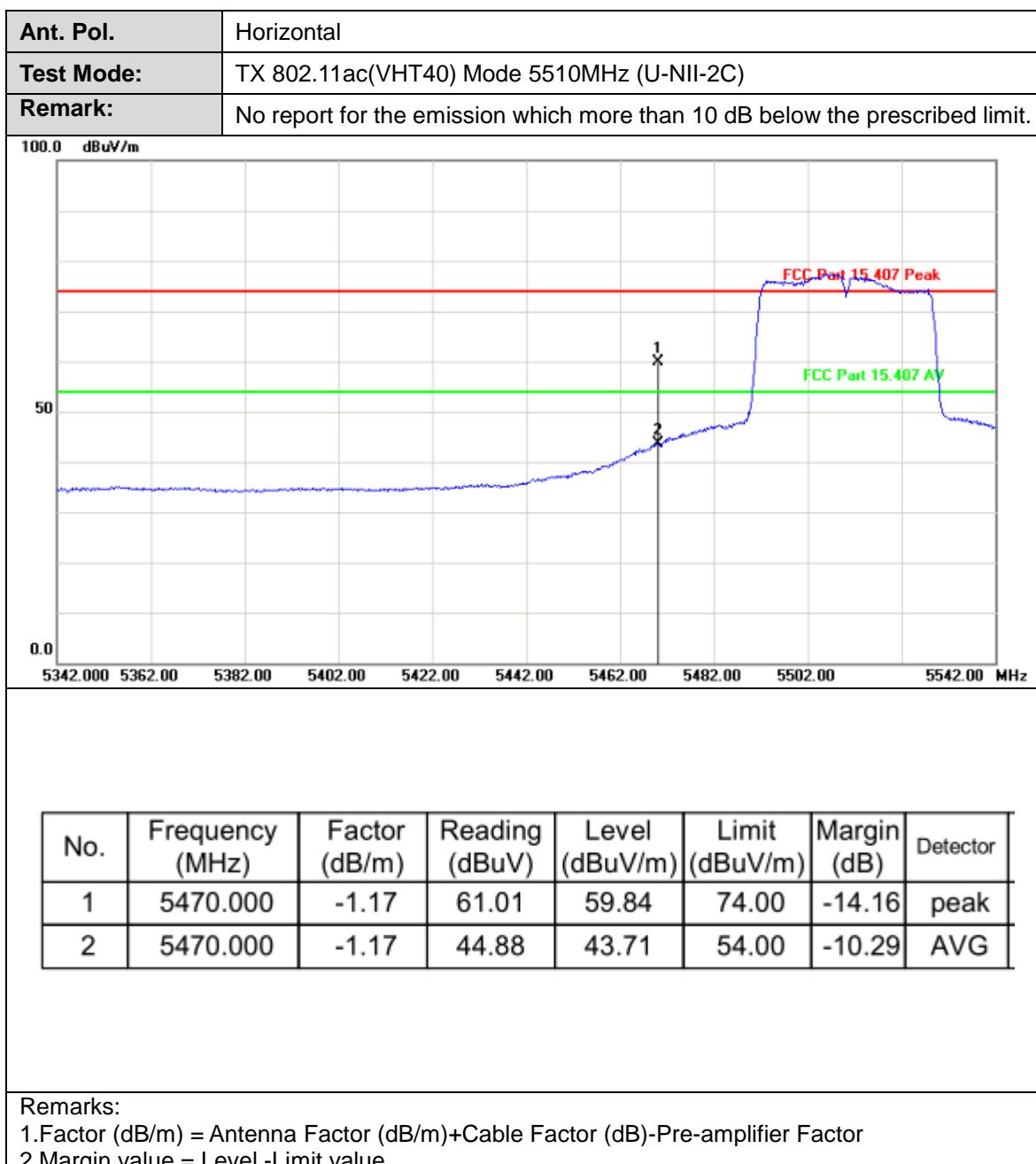
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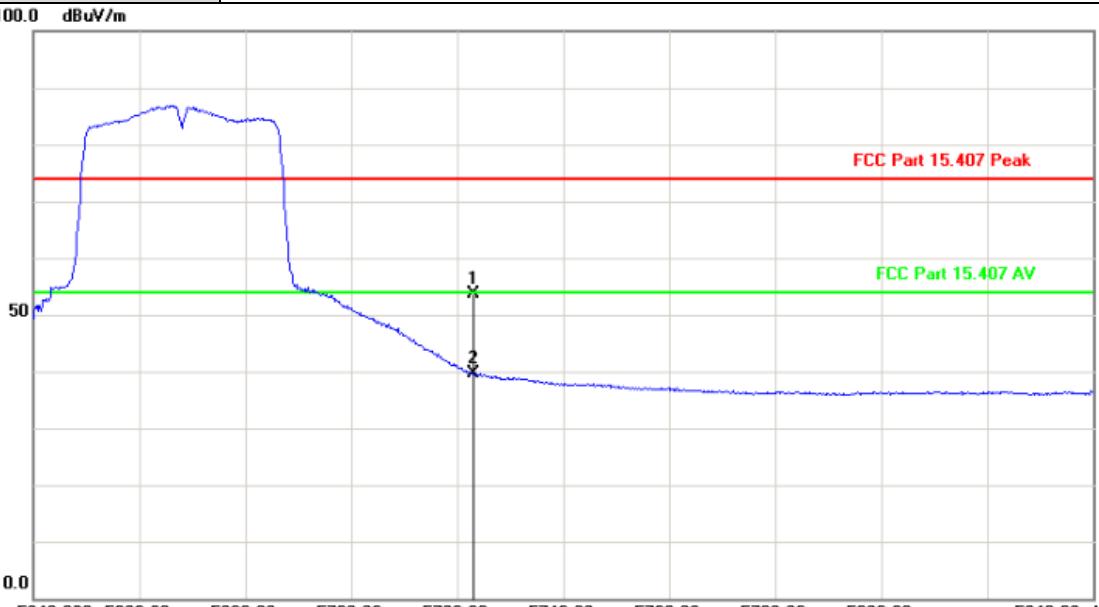
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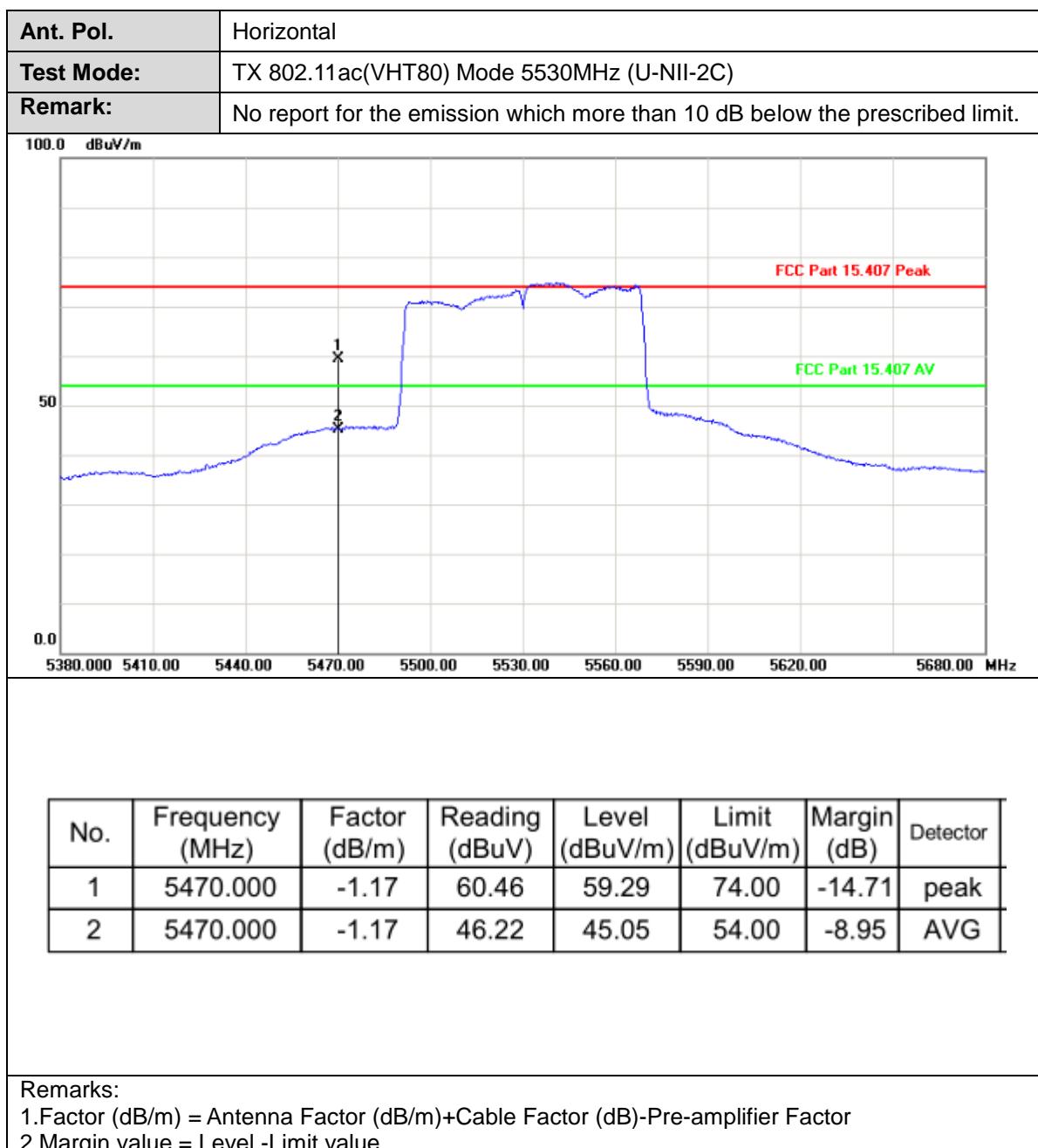
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1	5470.000	-1.17	65.94	64.77	74.00	-9.23	peak
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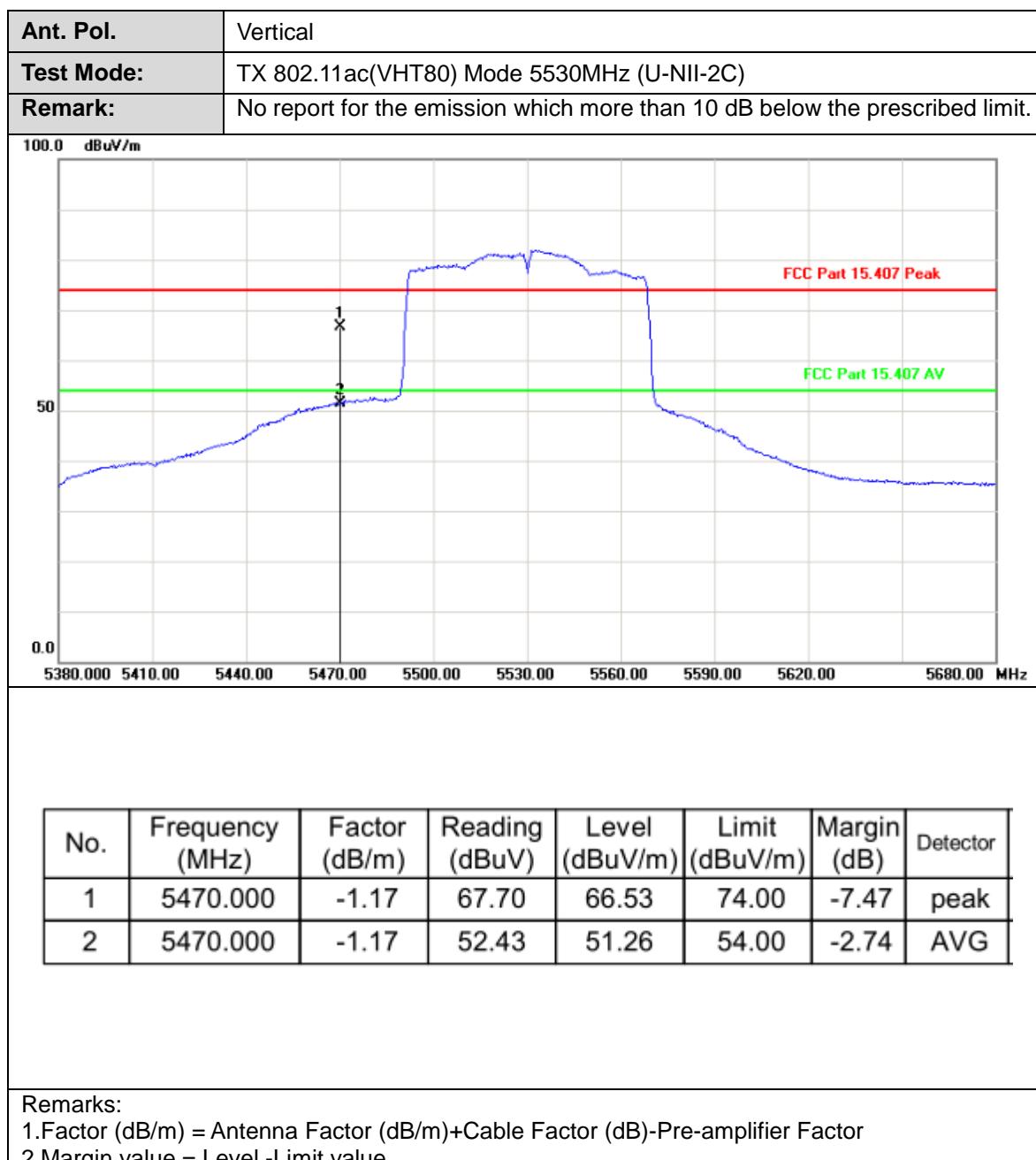


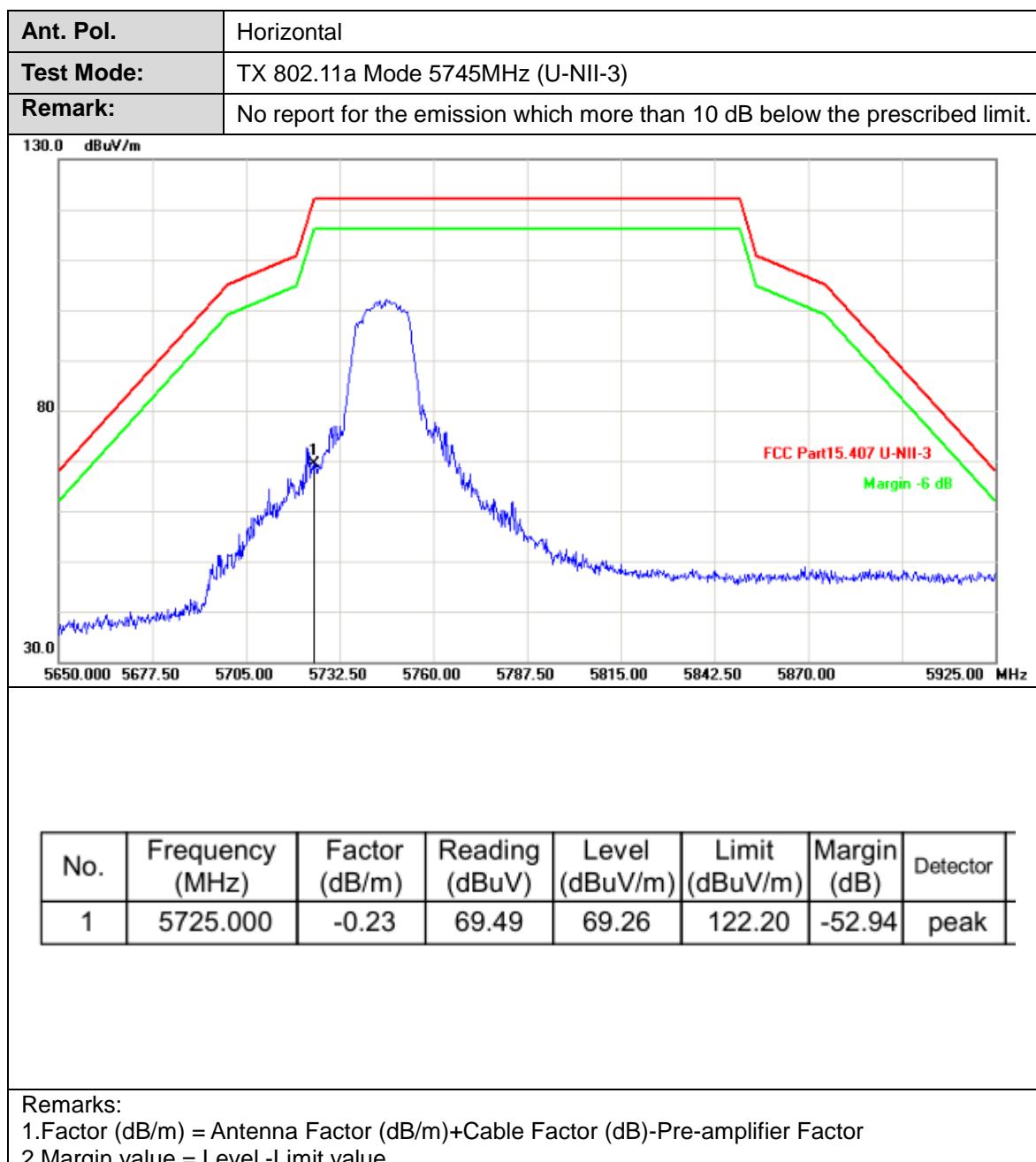
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 <p>The graph plots dBuV/m on the y-axis (0.0 to 100.0) against MHz on the x-axis (5642.000 to 5842.000). A blue line represents the measured spectrum. A red horizontal line at approximately 74 dBuV/m is labeled 'FCC Part 15.407 Peak'. A green horizontal line at approximately 54 dBuV/m is labeled 'FCC Part 15.407 AV'. Two vertical lines mark the frequency range: one at 5662.00 MHz and another at 5722.00 MHz. Points 1 and 2 are marked on the blue line at these frequencies.</p>																																
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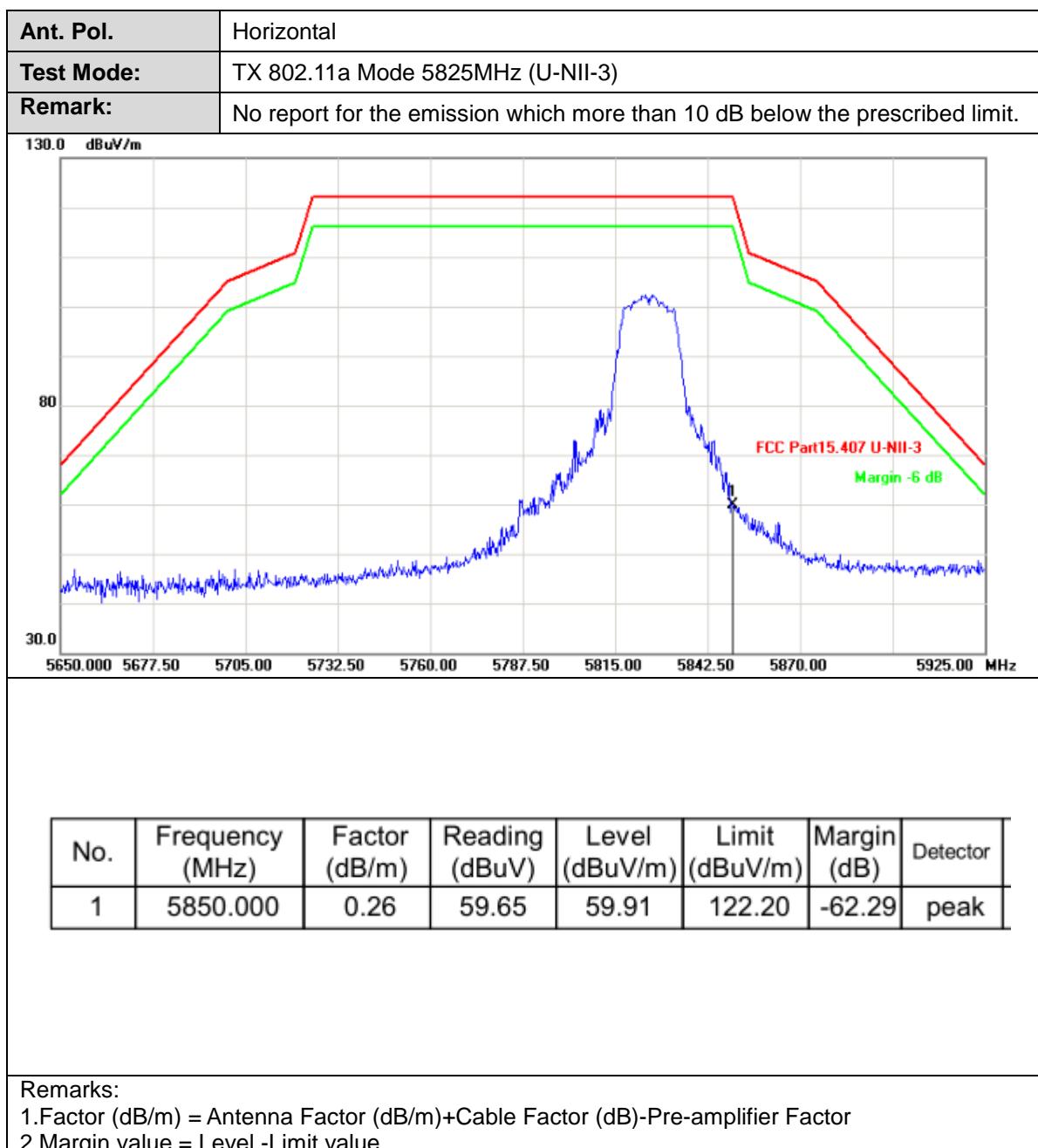
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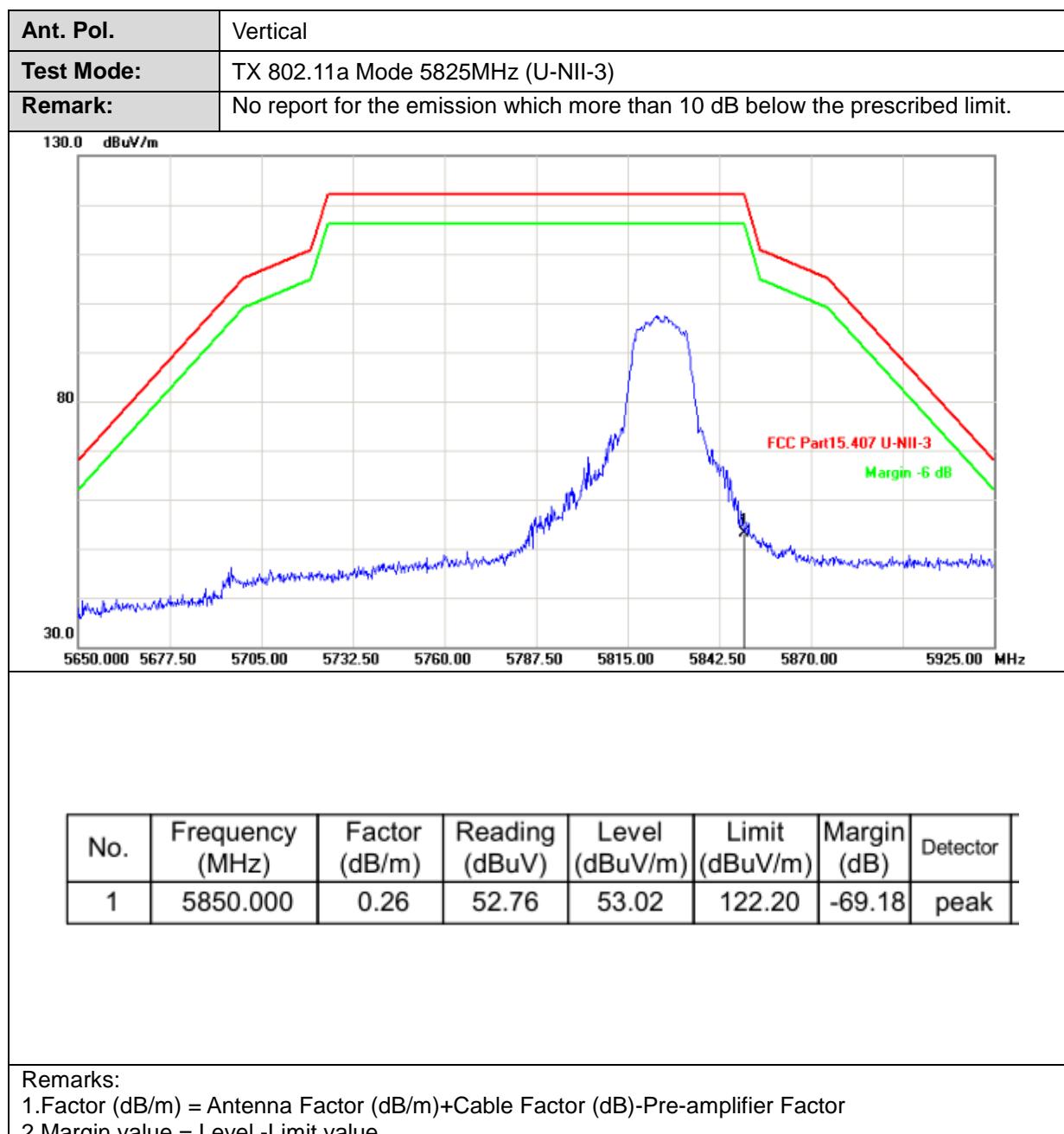


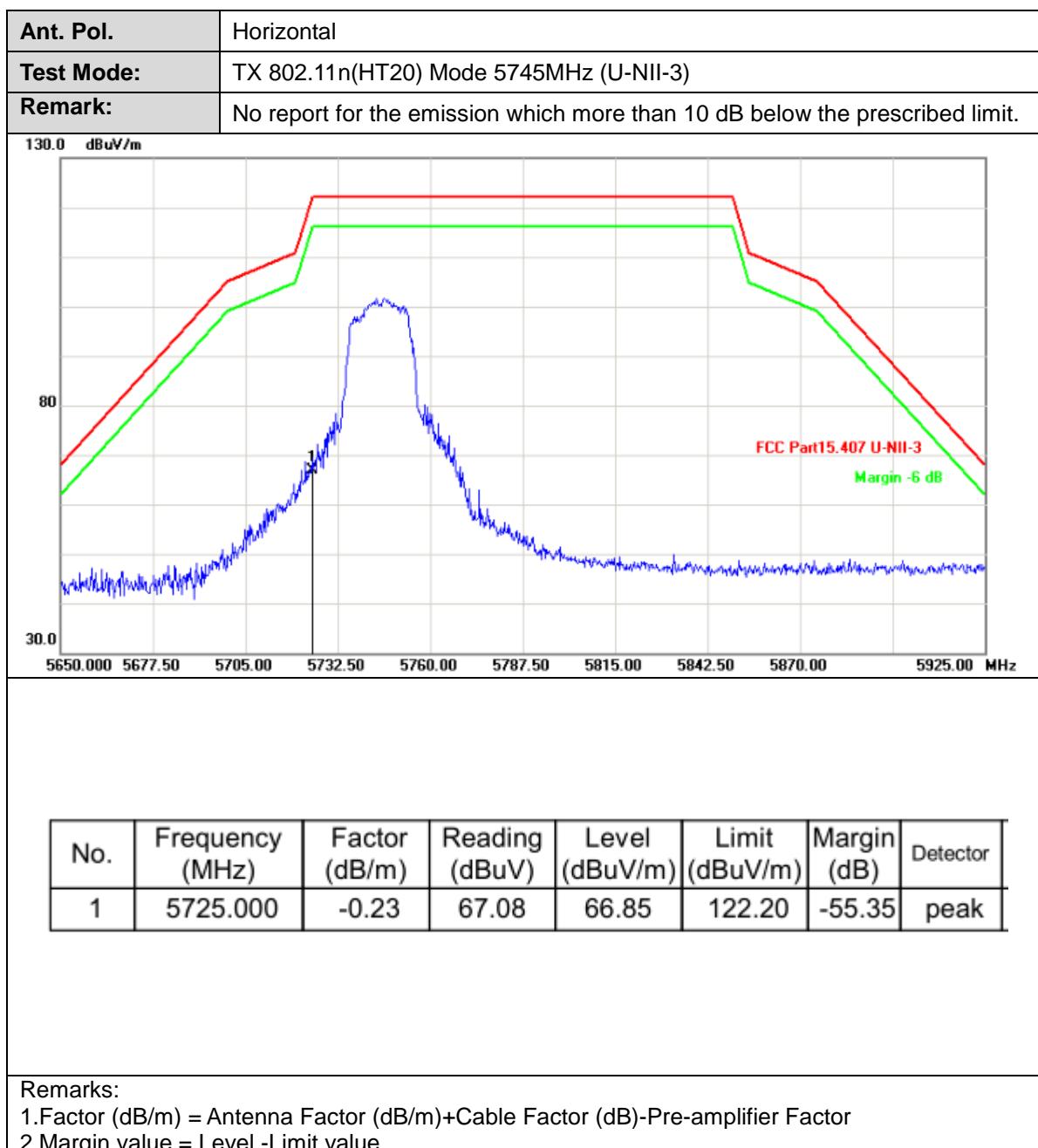




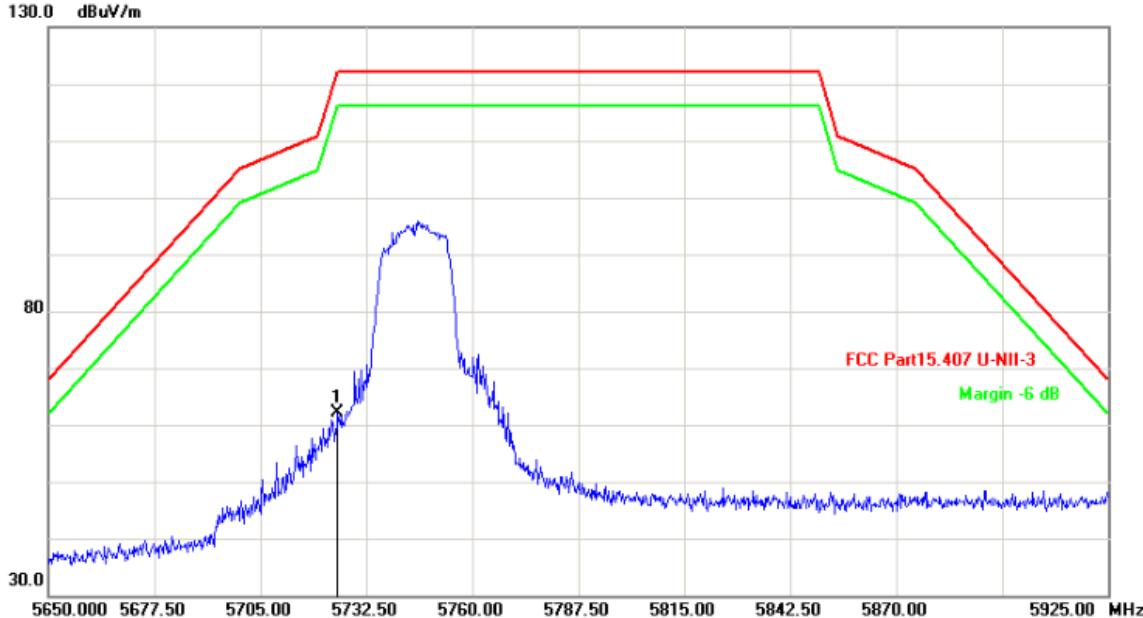
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Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)																
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector										
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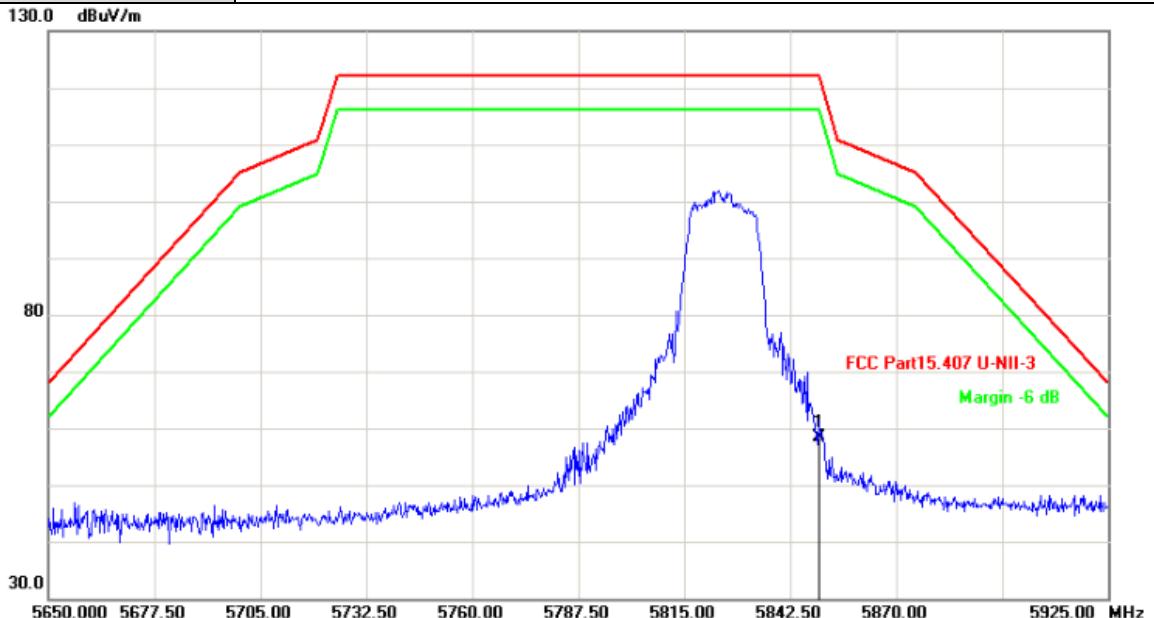




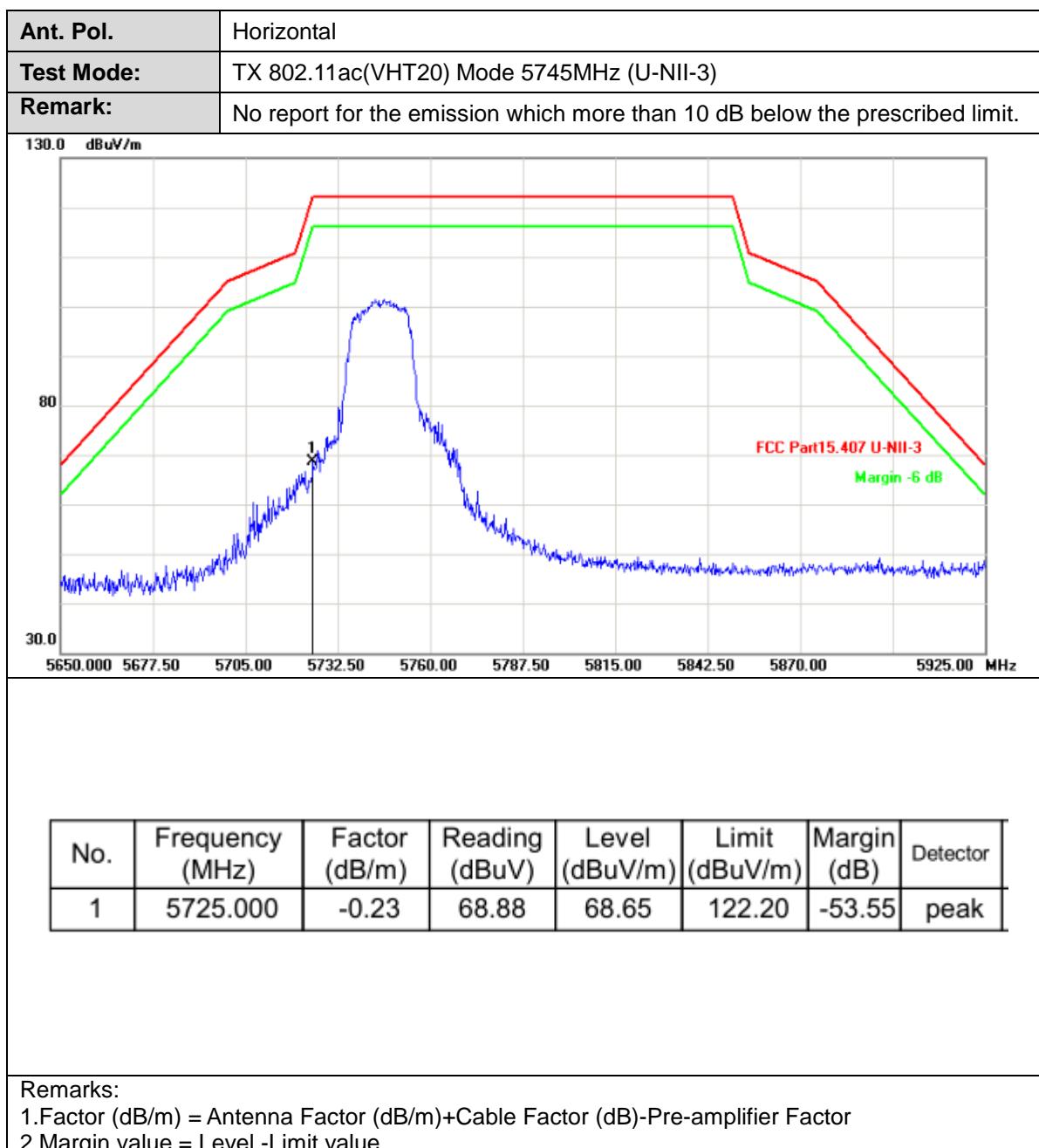




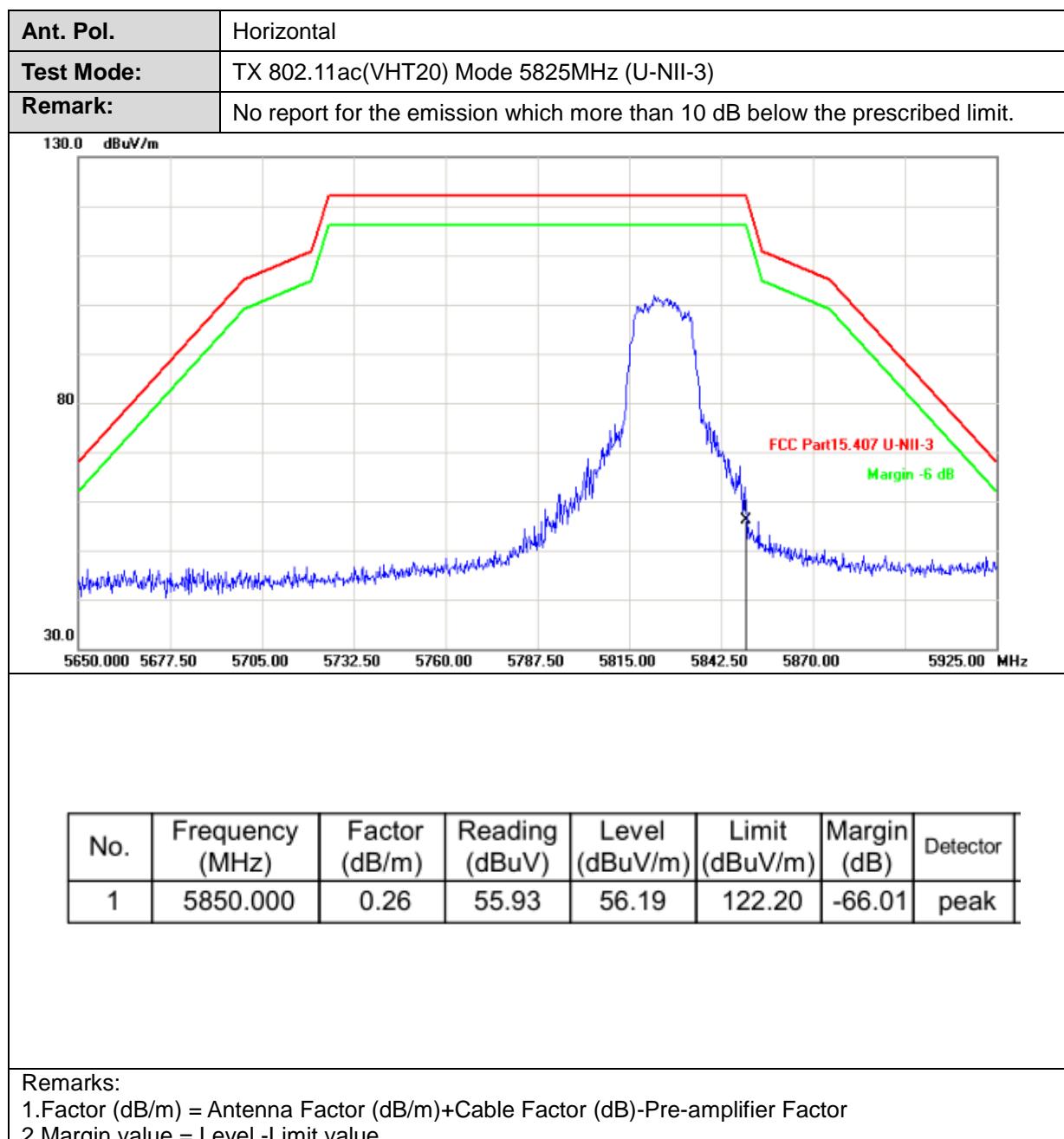
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Test Mode:	TX 802.11n(HT20) Mode 5745MHz (U-NII-3)																						
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																
1	5725.000	-0.23	62.28	62.05	122.20	-60.15	peak																
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Test Mode:	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)																						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																						
 <p>The graph displays the measured emission spectrum (blue line) against the FCC Part15.407 U-NII-3 limits (red and green lines). The x-axis represents Frequency in MHz, ranging from 5650.000 to 5925.000. The y-axis represents Level in dBuV/m, ranging from 30.0 to 130.0. The plot shows a sharp peak at approximately 5815.00 MHz, with a margin of -6 dB relative to the limit.</p>																							
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																
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Ant. Pol.	Vertical																							
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<p>The graph plots dBuV/m (Y-axis, 30.0 to 130.0) against MHz (X-axis, 5650.000 to 5925.000). A blue line represents the measured emission, which peaks around 5815.00 MHz at approximately 90 dBuV/m. Two horizontal lines represent the FCC Part15.407 U-NII-3 limits: a red line at approximately 122 dBuV/m and a green line at approximately 116 dBuV/m. A green line labeled 'Margin -6 dB' is shown below the green limit line. The plot shows a significant emission peak above the limits.</p>																								
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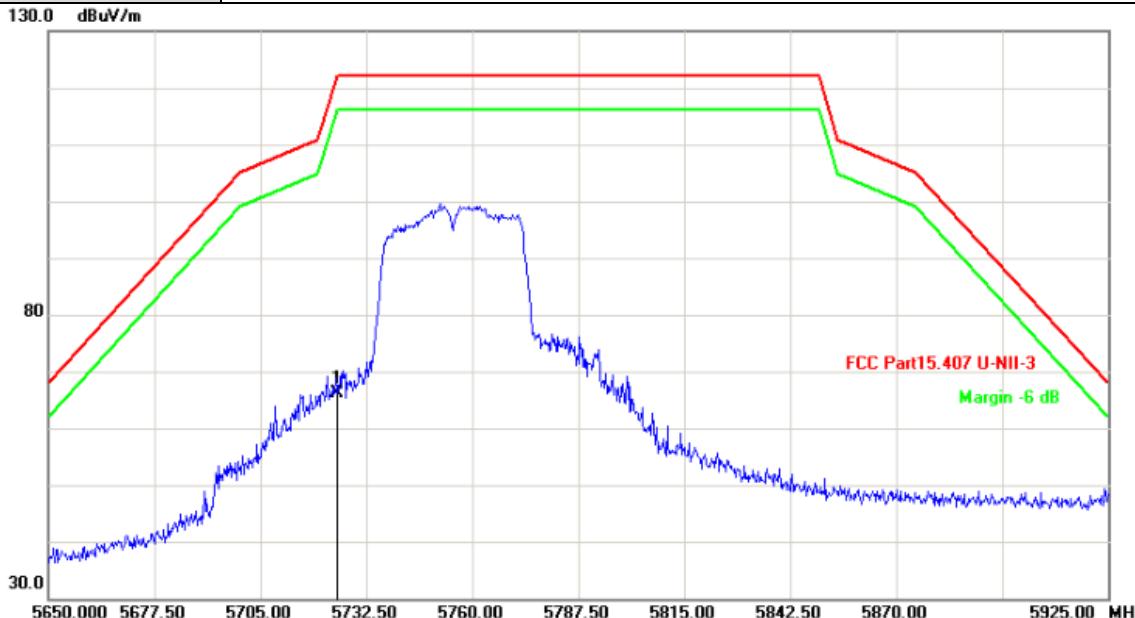


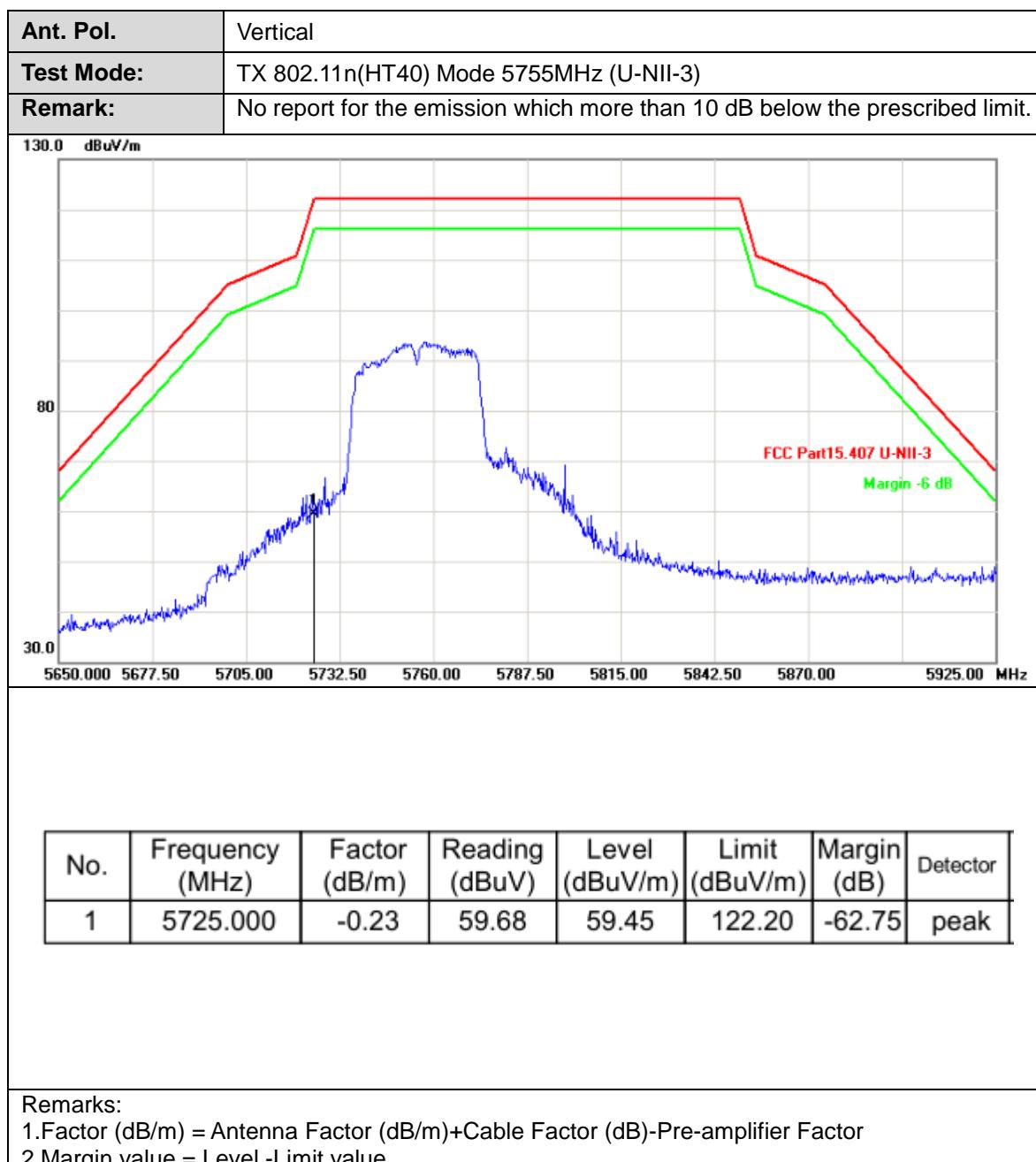
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<p>The plot shows the measured emission spectrum (blue line) and the FCC Part15.407 U-NII-3 limits (red and green lines). The x-axis represents frequency from 5650.000 to 5925.000 MHz. The y-axis represents power density in dBuV/m from 30.0 to 130.0. The red line represents the upper limit, and the green line represents the lower limit. The blue line shows a peak around 5735 MHz. A vertical line at 5732.50 MHz indicates the center frequency. Text in the plot area specifies 'FCC Part15.407 U-NII-3' and 'Margin -6 dB'.</p>																	
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector										
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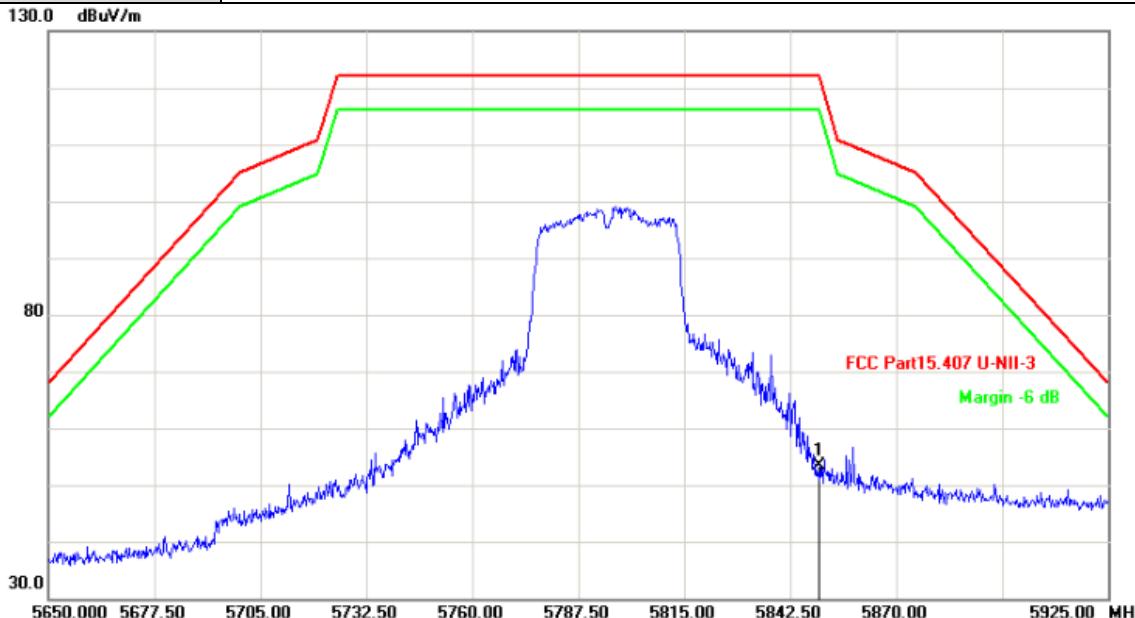
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Test Mode:	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)																
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																
<p>The plot shows the spectral power density in dBuV/m versus frequency in MHz. The x-axis ranges from 5650.000 to 5925.000 MHz. The y-axis ranges from 30.0 to 130.0 dBuV/m. A blue line represents the measured emission, which peaks around 5815.00 MHz. Two red lines represent the FCC Part15.407 U-NII-3 limits, and a green line represents the margin of -6 dB. The measured emission stays below the limits throughout the band.</p>																	
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector										
1	5850.000	0.26	50.93	51.19	122.20	-71.01	peak										
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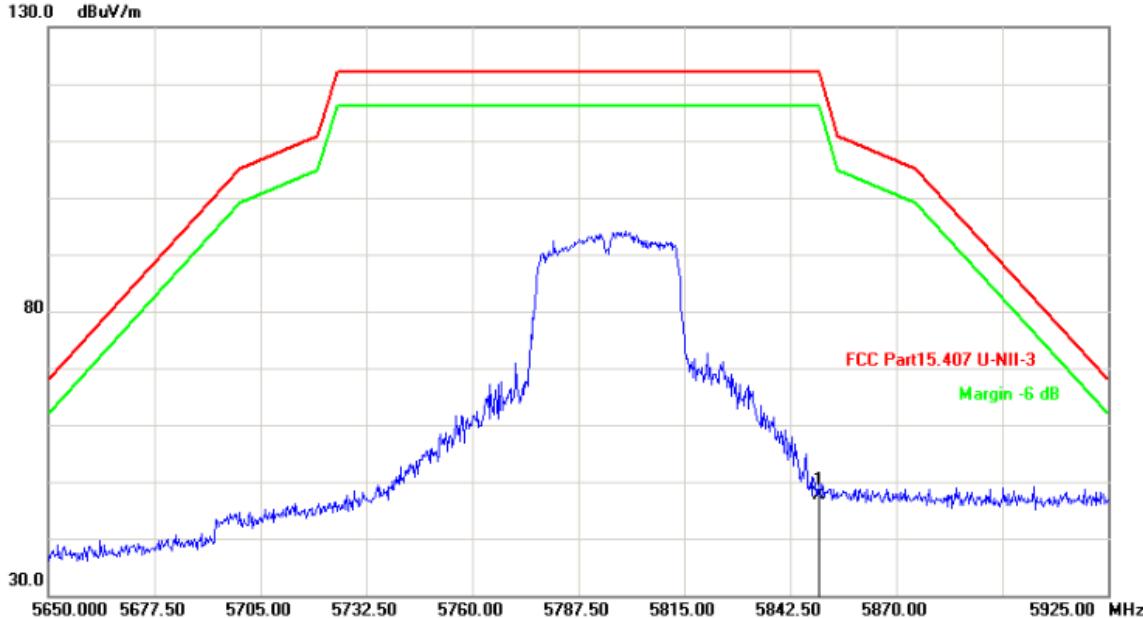


Ant. Pol.	Horizontal																						
Test Mode:	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)																						
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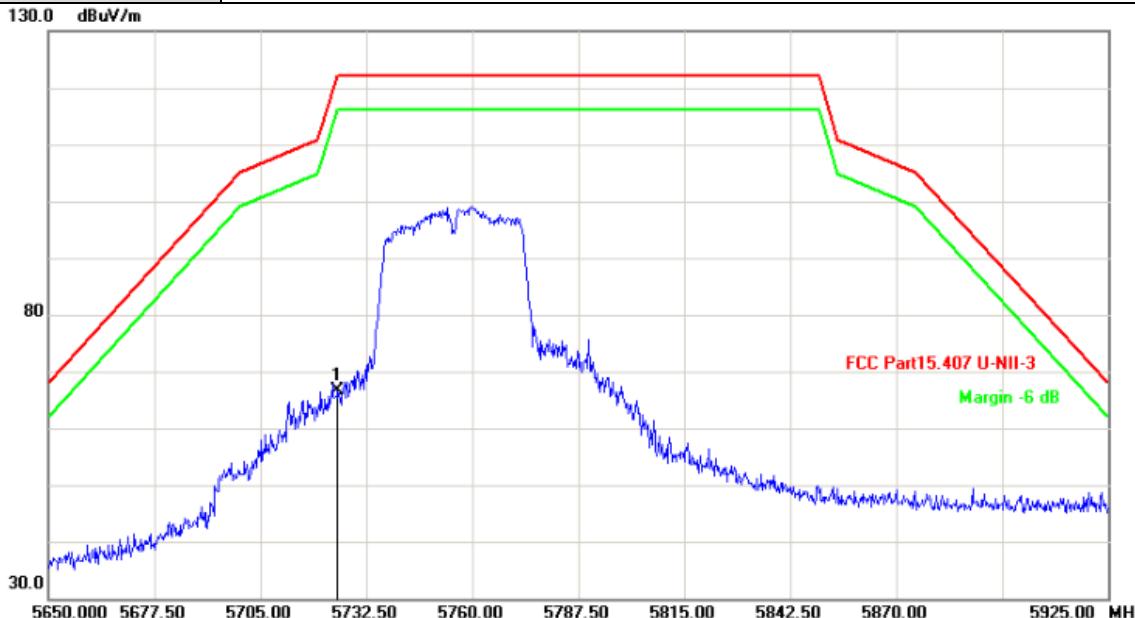




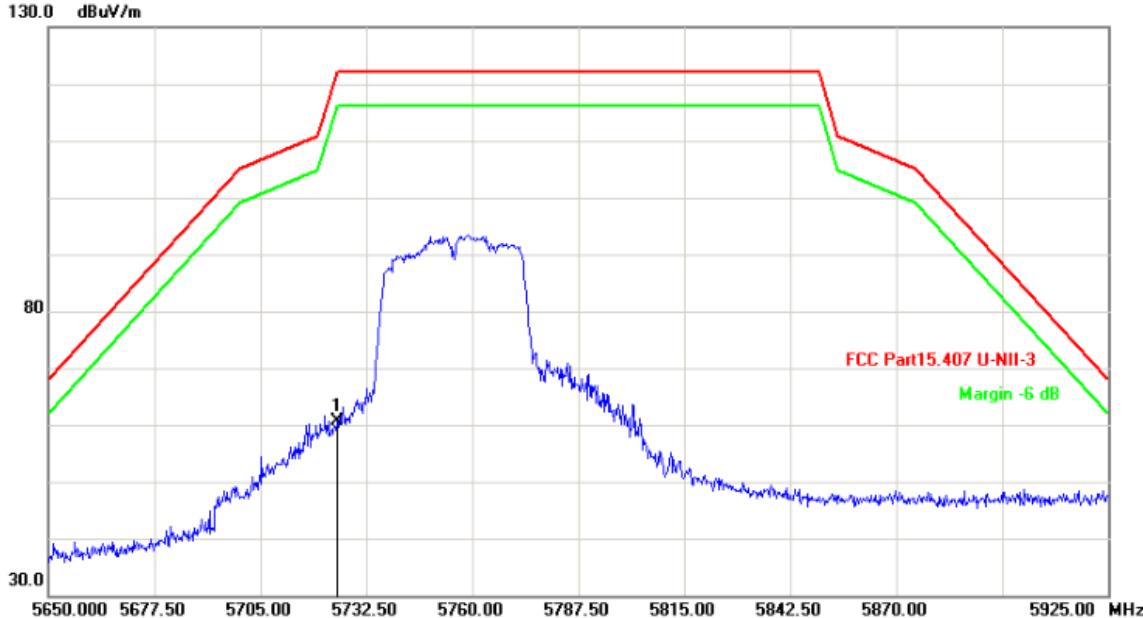
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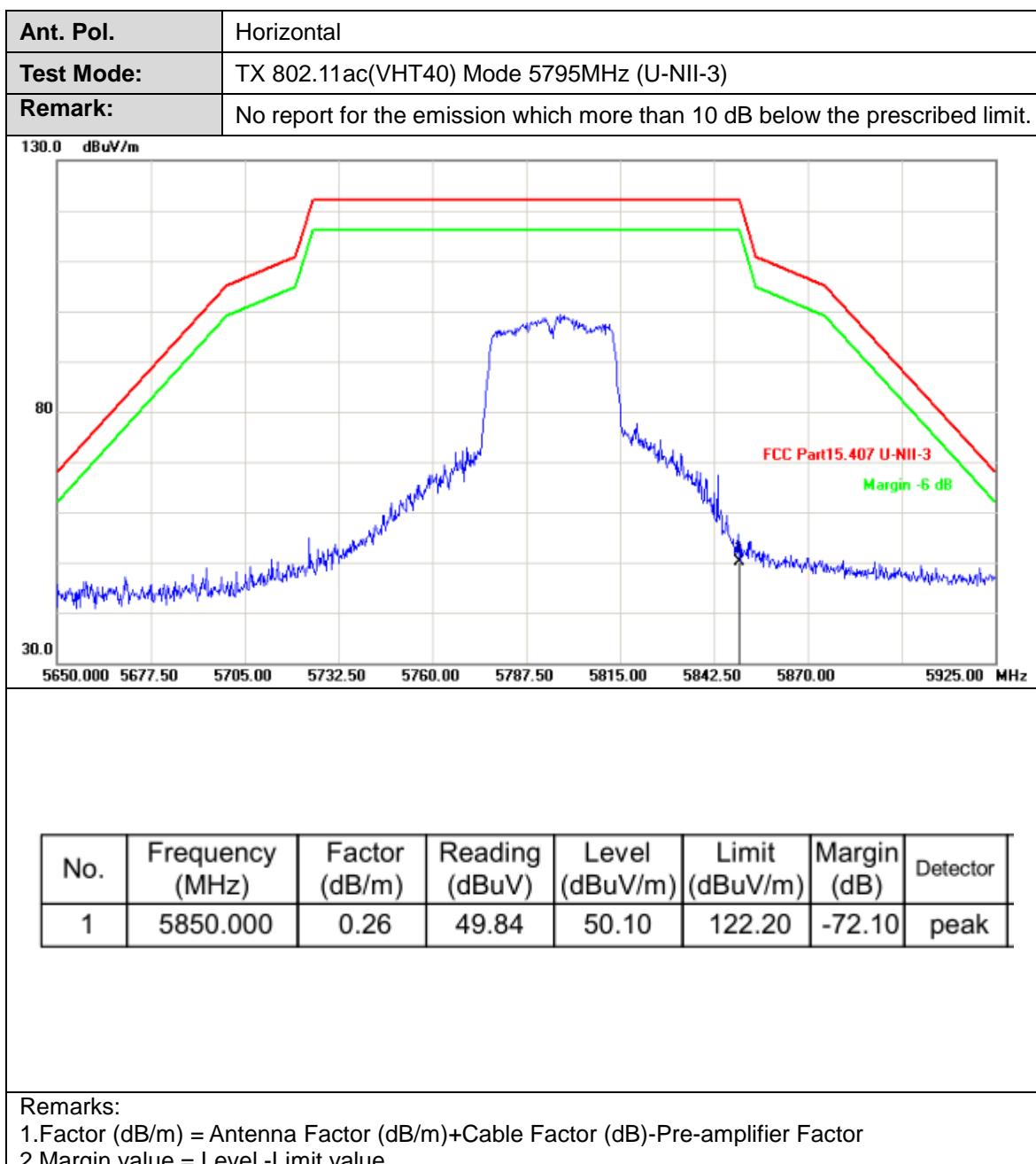
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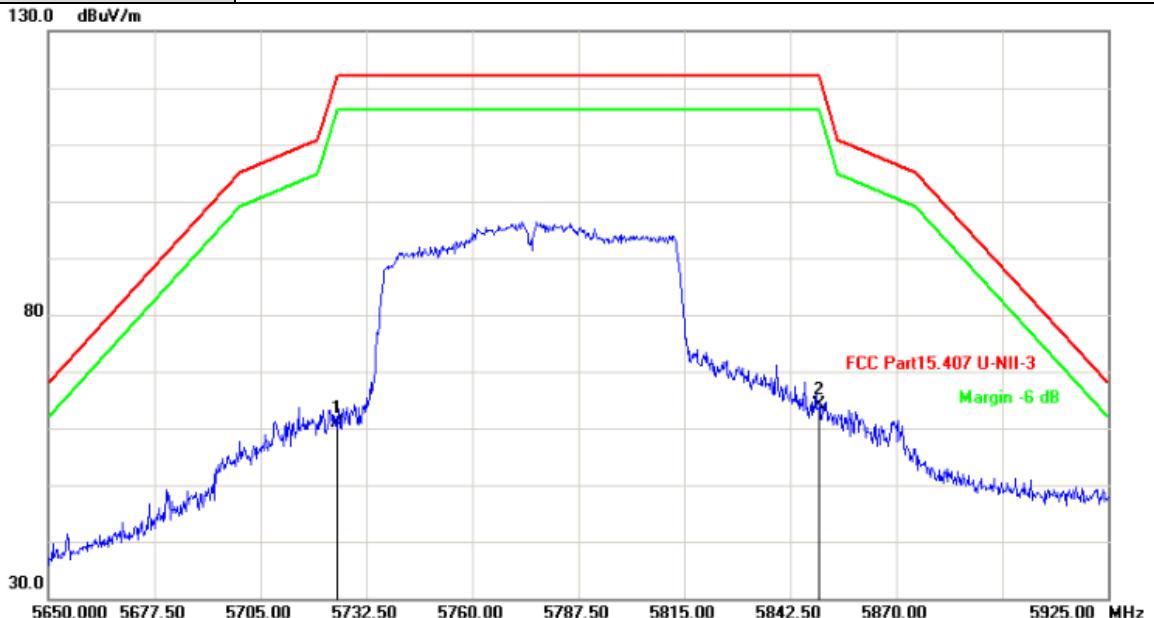
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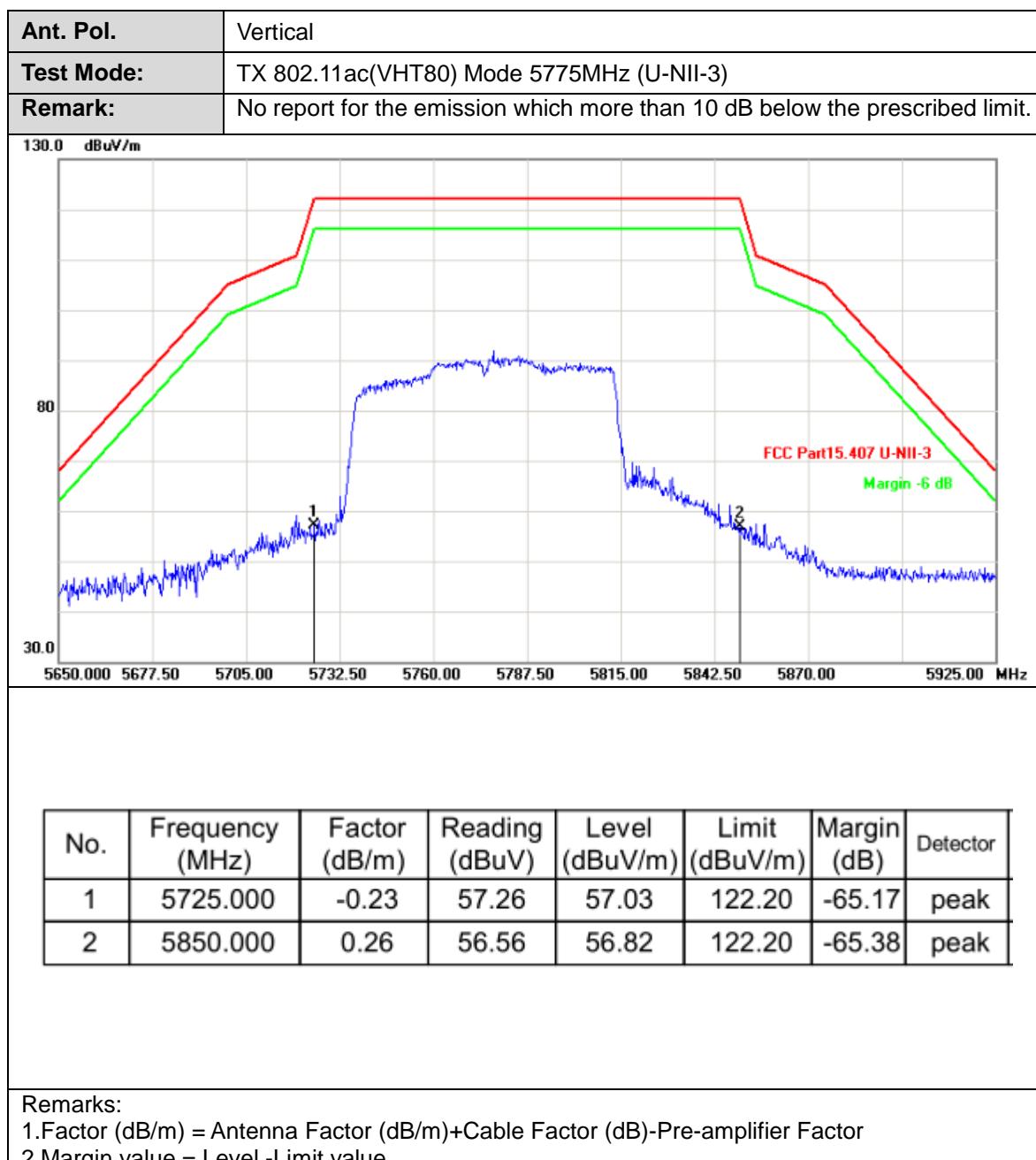


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Test Mode:	TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)																							
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																							
																								
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5725.000</td><td>-0.23</td><td>60.82</td><td>60.59</td><td>122.20</td><td>-61.61</td><td>peak</td></tr></tbody></table>									No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5725.000	-0.23	60.82	60.59	122.20	-61.61	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																	
1	5725.000	-0.23	60.82	60.59	122.20	-61.61	peak																	
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																								



Ant. Pol.	Vertical																
Test Mode:	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)																
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																
<table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr> <td>1</td><td>5850.000</td><td>0.26</td><td>47.27</td><td>47.53</td><td>122.20</td><td>-74.67</td><td>peak</td></tr> </tbody> </table>		No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5850.000	0.26	47.27	47.53	122.20	-74.67	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector										
1	5850.000	0.26	47.27	47.53	122.20	-74.67	peak										
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																	

Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
<table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr> <td>1</td><td>5725.000</td><td>-0.23</td><td>61.03</td><td>60.80</td><td>122.20</td><td>-61.40</td><td>peak</td></tr> <tr> <td>2</td><td>5850.000</td><td>0.26</td><td>63.88</td><td>64.14</td><td>122.20</td><td>-58.06</td><td>peak</td></tr> </tbody> </table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5725.000	-0.23	61.03	60.80	122.20	-61.40	peak	2	5850.000	0.26	63.88	64.14	122.20	-58.06	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5725.000	-0.23	61.03	60.80	122.20	-61.40	peak																								
2	5850.000	0.26	63.88	64.14	122.20	-58.06	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor</p> <p>2. Margin value = Level - Limit value</p>																															



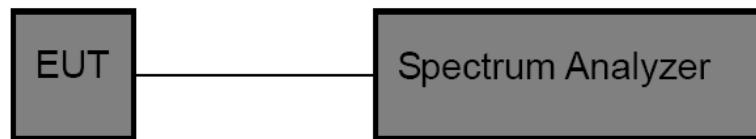


### 3.4. Bandwidth Test

#### Limit

FCC Part 15 Subpart C(15.407)/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
26 Bandwidth	N/A	5150~5250
		5250~5350
		5500~5700
6 dB Bandwidth	>500kHz	5725~5850

#### Test Configuration



#### Test Procedure

Please refer to According to KDB789033 D02, for the measurement methods.

#### The setting of the spectrum analyser as below:

26dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>26 dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW>RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto



6dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>6 dB Bandwidth
RBW	100 kHz
VBW	VBW>=3*RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

99% Occupied Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
RBW	1% to 5% of the OBW
VBW	$\geq 3RBW$
Detector	Peak
Trace	Max Hold

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

### **Test Mode**

Please refer to the clause 2.4.

### **Test Results**

Please see the Appendix A1, A2, A3



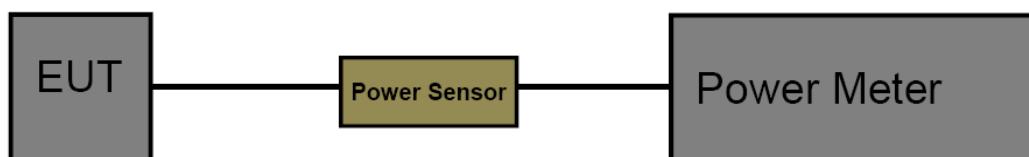
### 3.5. Output Power Test

#### Limit

FCC Part 15 Subpart E (15.407)		
Test Item	Limit	Frequency Range(MHz)
Conducted Output Power	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250
	250mW (24dBm)	5250~5350
	250mW (24dBm)	5500~5700
	1 Watt (30dBm)	5725~5850

IC Power@PSD Limit					
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz-5250MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or $10 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
5250MHz-5350MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices	250mW or $11 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/Mhz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or $11 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/Mhz	
5725MHz-5850MHz	ALL Devices	1W		30dBm/500KHz	

#### Test Configuration





### Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

### Test Mode

Please refer to the clause 2.4.

### Test Result

Please see the Appendix B



## 3.6. Power Spectral Density Test

### Limit

#### FCC Part 15 Subpart E(15.407)/ RSS-247

For the 5.15~5.25GHz band:

- Outdoor AP  
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.  
If  $G_{Tx} > 6\text{dBi}$ , then PSD = $17-(G_{Tx}-6)$ .
- Indoor AP  
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.  
If  $G_{Tx} > 6\text{dBi}$ , then PSD = $17-(G_{Tx}-6)$ .
- Point-to-point AP  
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.  
If  $G_{Tx} > 23\text{dBi}$ , then PSD = $17-(G_{Tx}-23)$ .
- Client devices  
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.  
If  $G_{Tx} > 6\text{dBi}$ , then PSD = $11-(G_{Tx}-6)$ .

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.  
If  $G_{Tx} > 6\text{dBi}$ , then PSD = $11-(G_{Tx}-6)$ .

For the 5.47~5.725GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.  
If  $G_{Tx} > 6\text{dBi}$ , then PSD = $11-(G_{Tx}-6)$ .

For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)  
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.  
If  $G_{Tx} > 6\text{dBi}$ , then PSD = $30-(G_{Tx}-6)$ .
- Point-to-point systems (P2P)  
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

Note:  $G_{Tx}$ : EUT Antenna gain.

IC Power&PSD Limit					
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz-5250MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} B \text{ dBm}$ , whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or $10 + 10 \times \log_{10} B \text{ dBm}$ , whichever is less (B=99% OBW in MHz)		10dBm/MHz
5250MHz-5350MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} B \text{ dBm}$ , whichever is less (B=99% OBW in MHz)		
	Other Devices	250mW or $11 + 10 \times \log_{10} B \text{ dBm}$ , whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} B \text{ dBm}$ , whichever is less (B=99% OBW in MHz)	11dBm/Mhz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or $11 + 10 \times \log_{10} B \text{ dBm}$ , whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} B \text{ dBm}$ , whichever is less (B=99% OBW in MHz)	11dBm/Mhz	
5725MHz-5850MHz	ALL Devices	1W		30dBm/500KHz	

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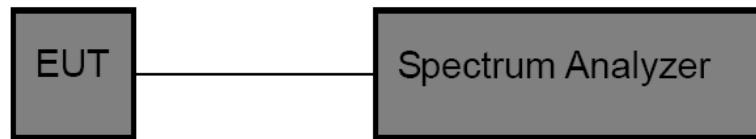
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## Test Configuration



## Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW)(alternatively, the entire 99% OBW) of the signal.
- (4) RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz  
RBW=500kHz for devices operating in the band 5.725-5.85 GHz
- (5) Set the VBW to:  $\geq 3$  RBW
- (6) Detector: AVG
- (7) Trace: Max Hold and View
- (7) Sweep time: auto
- (8) Trace average at least 100 traces in power averaging.
- (9) User the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

## Test Mode

Please refer to the clause 2.4.

## Test Result

Please see the Appendix C

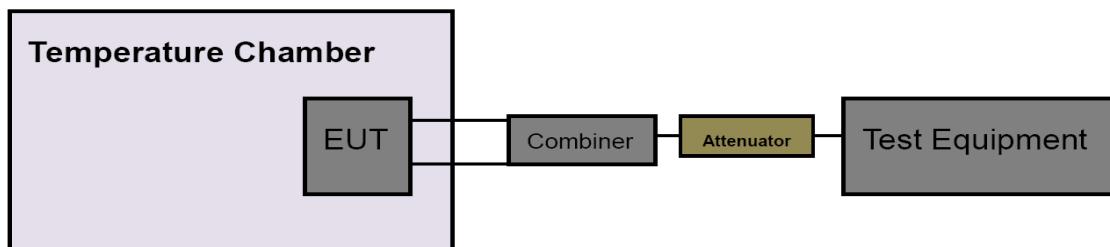


### 3.7. Frequency Stability Measurement

#### Limit

FCC Part 15 Subpart C(15.407)		
Test Item	Limit	Frequency Range(MHz)
Peak Excursion Measurement	Specified in the user's manual, the transmitter center frequency tolerance shall be $\pm 20$ ppm maximum for the 5 GHz band (IEEE 802.11n specification)	5150~5250
		5250~5350
		5500~5700
		5725~5850

#### Test Configuration



#### Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 10 kHz, VBW=10 kHz with peak detector and maxhold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- (6) Extreme temperature is -25°C~45°C

NOTE: The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

#### Test Mode

Please refer to the clause 2.4.

#### Test Result

Please see the Appendix D



## 3.8. Antenna Requirement

### Standard Requirement

#### FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.



### 3.9. Dynamic Frequency Selection(DFS)

#### Requirement

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

#### LIMIT

##### 1. DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP $<$ 200 milliwatt and power spectral density $<$ 10 dBm/MHz	-62 dBm
EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement	-64 dBm



Note 1: This is the level at the input of the receiver assuming a 0dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

## 2. DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

## RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\lceil \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\rceil$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			

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2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066  $\mu$ sec is selected, the number of pulses would be

$$\left\lfloor \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{3066} \right) \right\rfloor$$

Round up = Round up {17.2} = 18.

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveforms are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type wave forms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each wave form. The hopping sequence is different for each wave form and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

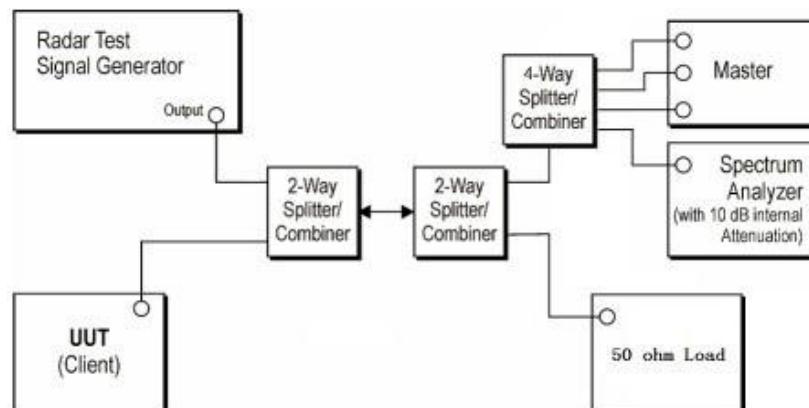
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250–5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

### Calibration of Radar Waveform

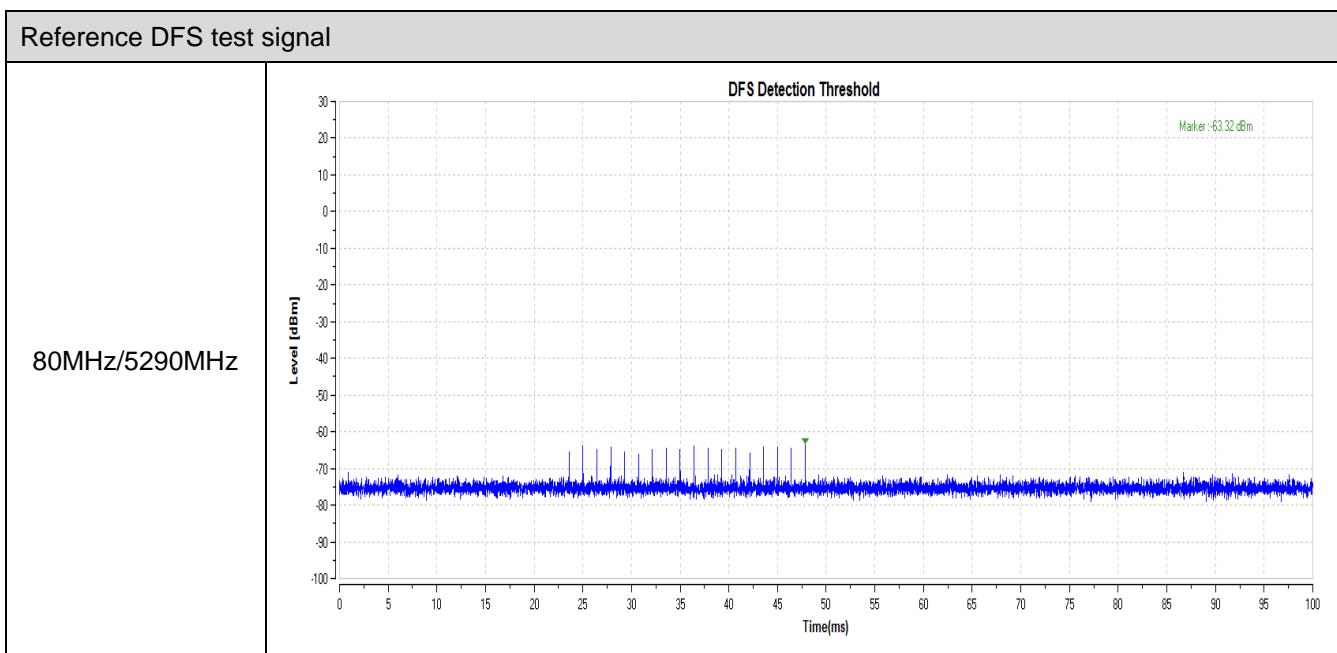
#### Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is  $-62\text{dBm} + 0\text{dB} + 1\text{dB} = -61\text{dBm}$  that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset  $-1.0\text{dB}$  to compensate RF cable loss  $1.0\text{dB}$ .
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $-62\text{dBm} + 0\text{dB} + 1\text{dB} = -61\text{dBm}$ . Capture the spectrum analyzer plots on short pulse radar waveform.

### Conducted Calibration Setup

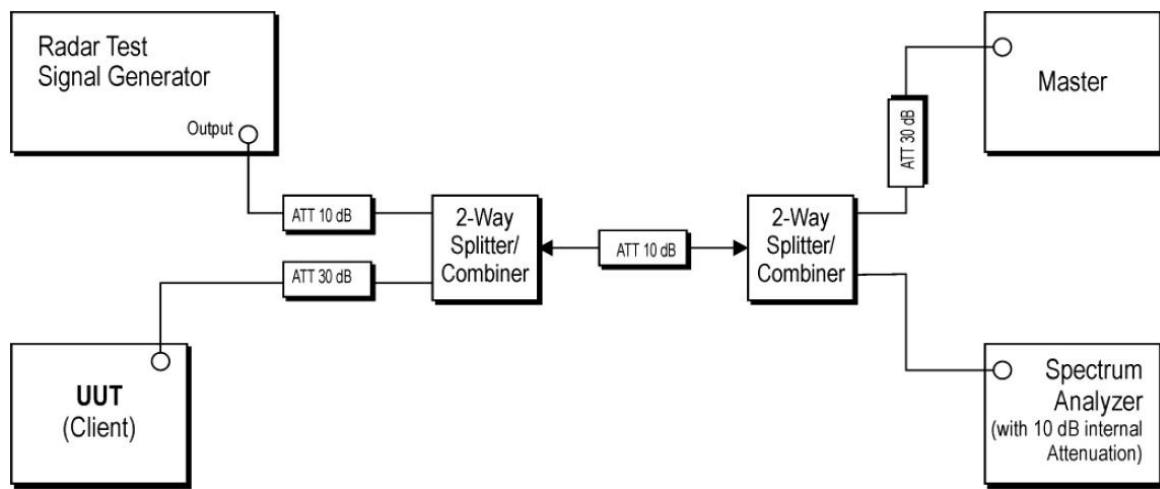


## Radar Waveform Calibration Result



## Test Configuration

Setup for Client with injection at the Master



## Test Procedure

1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

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6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type
7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =  $S (12000\text{ms}) / B (4000)$ ; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms) =  $N \times \text{Dwell} (0.3\text{ms})$ ; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

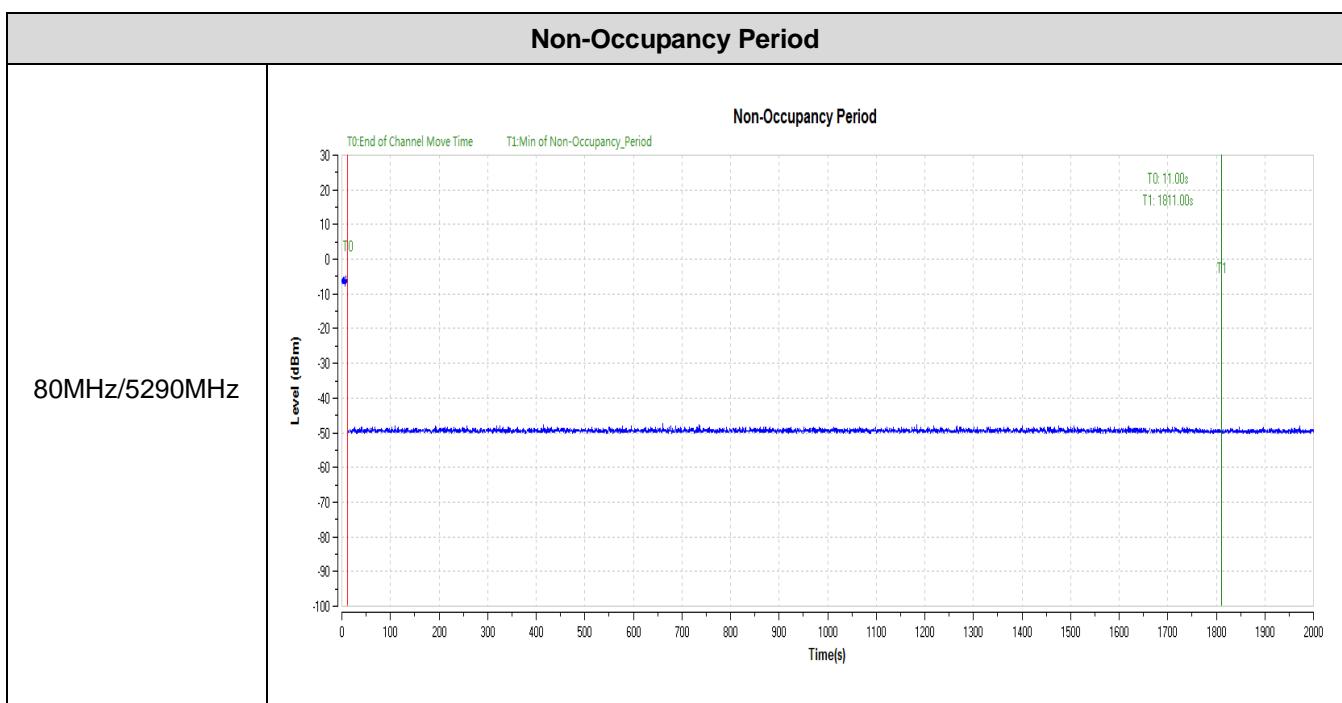
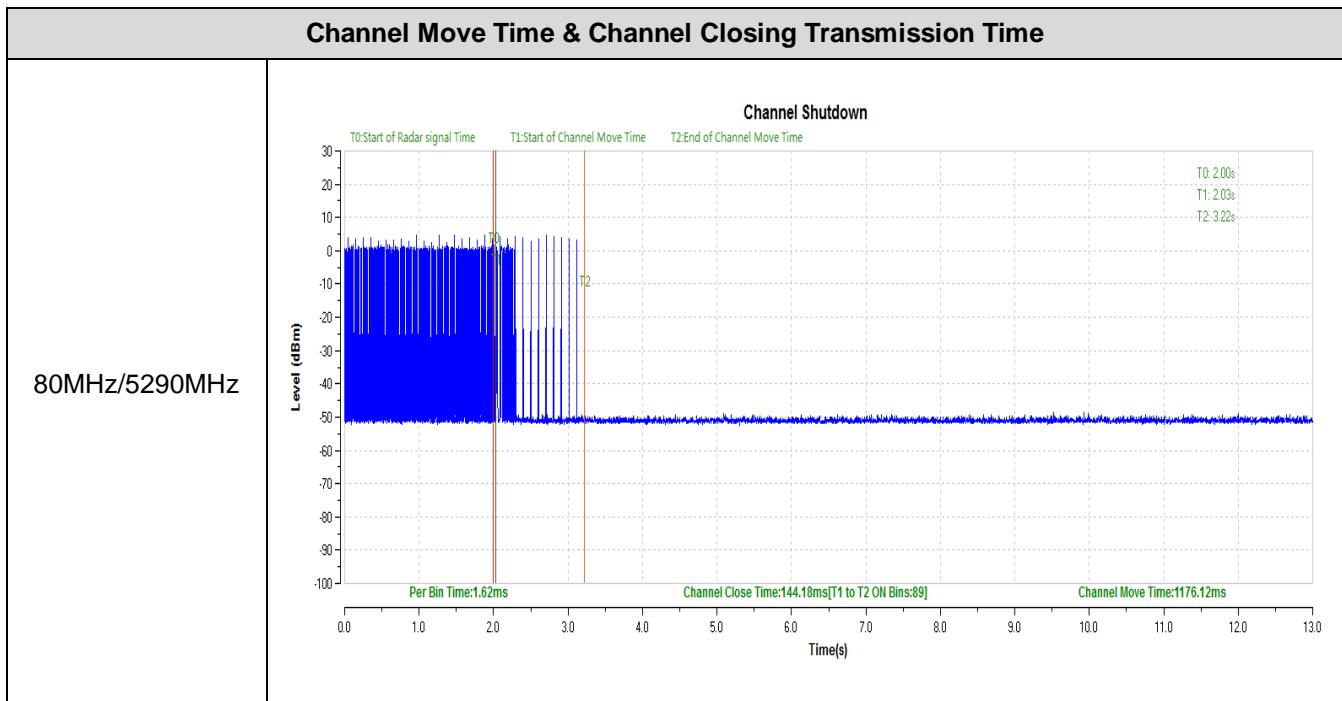
#### **Test Mode**

Please refer to the clause 2.4.

#### **Test Results**

**Passed**       **Not Applicable**

BW/Channel	Test Item	Test Result	Limit	Result
80MHz/5290MHz	Channel Move Time	1176.12ms	< 10s	Pass
	Channel Closing Transmission Time	144.18ms	< 200+60ms	Pass
	Non-Occupancy Period	See test graph	>=1800	Pass



\*\*\*\*\*THE END\*\*\*\*\*

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