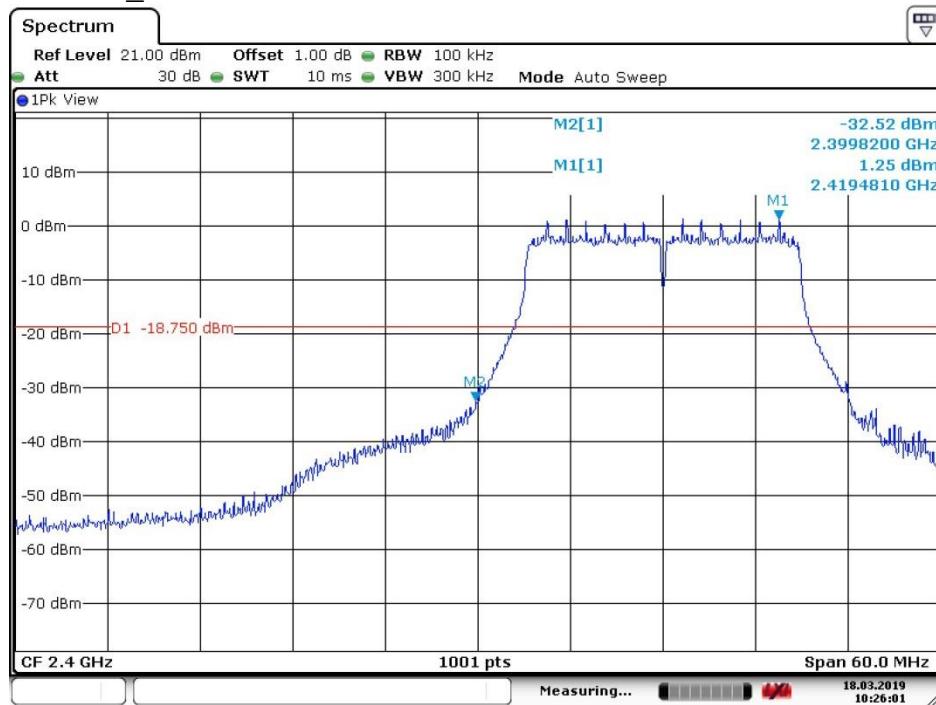
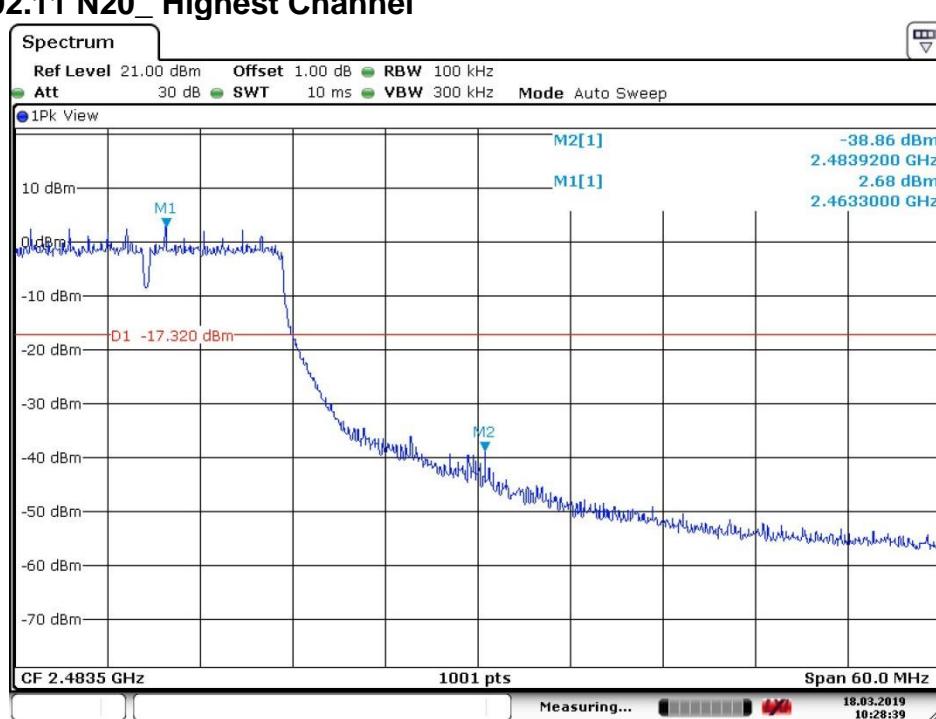
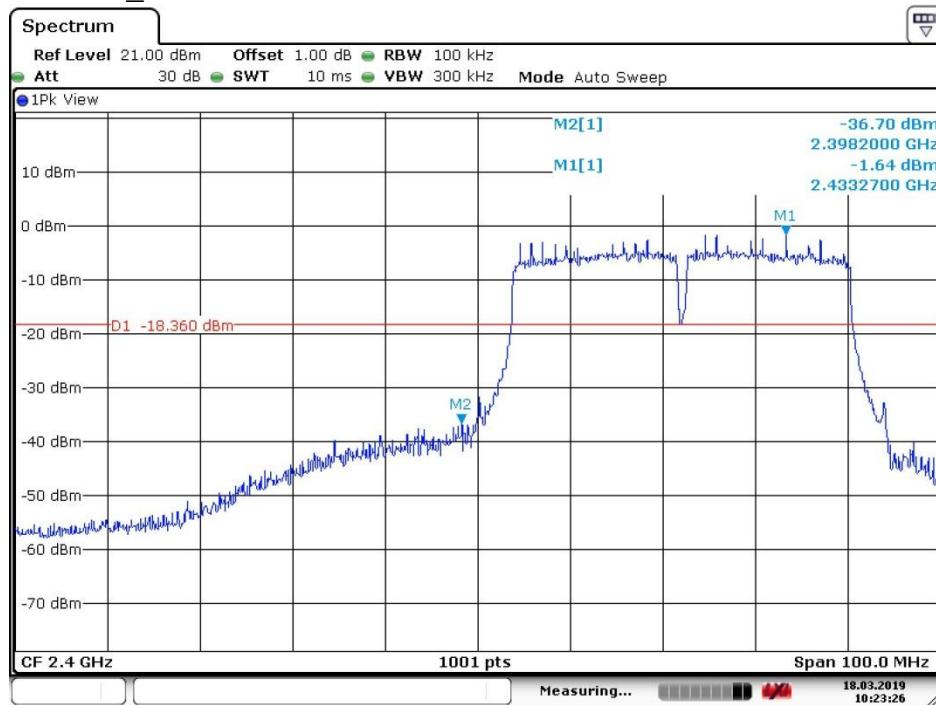
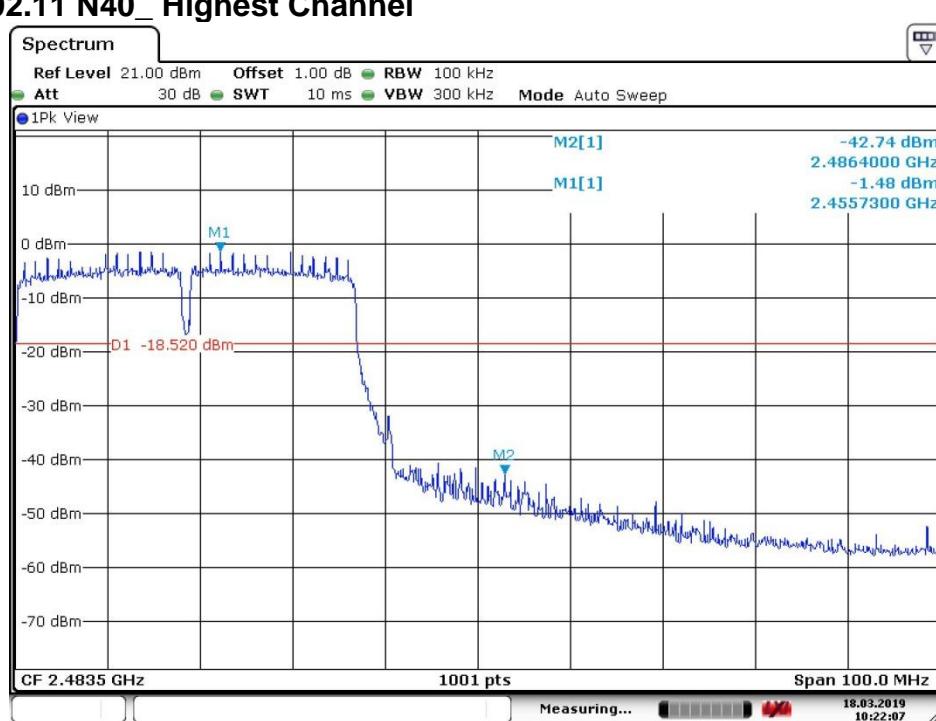


**4.7.1.1.5 802.11N20\_Lowest Channel****4.7.1.1.6 802.11 N20\_Highest Channel**

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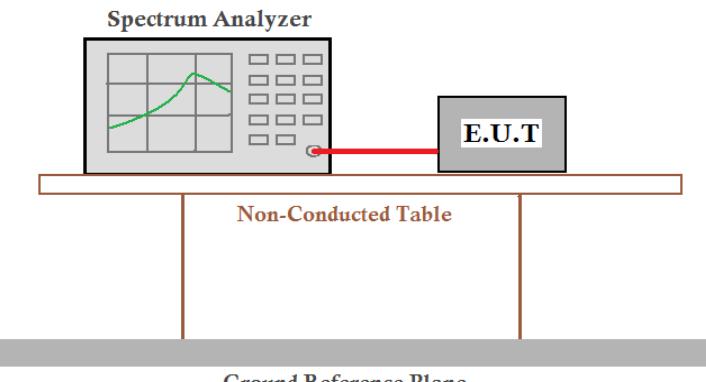
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**4.7.1.1.7 802.11N40\_Lowest Channel****4.7.1.1.8 802.11 N40\_Highest Channel**

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## 4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



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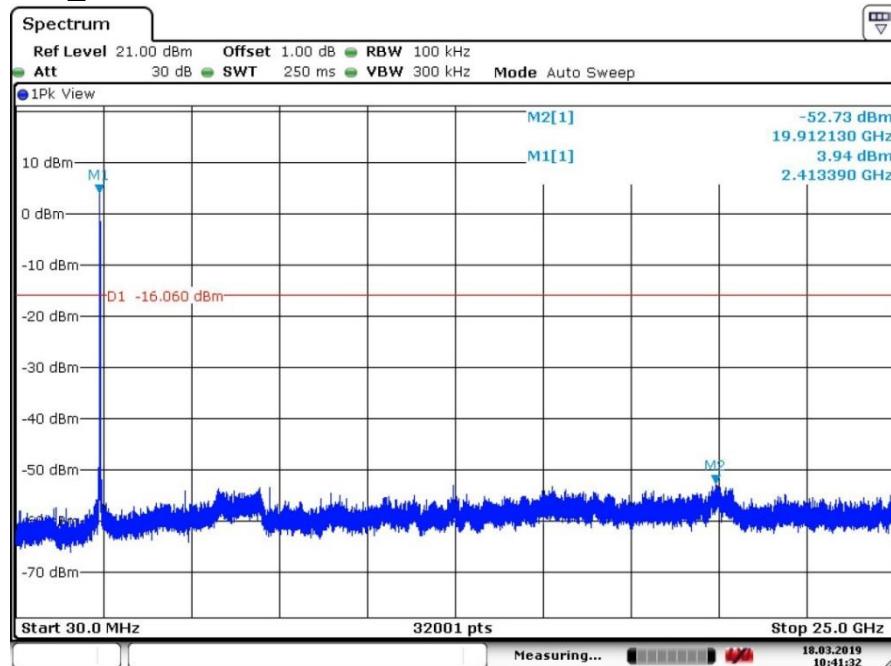
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## 4.8.1 Test plots

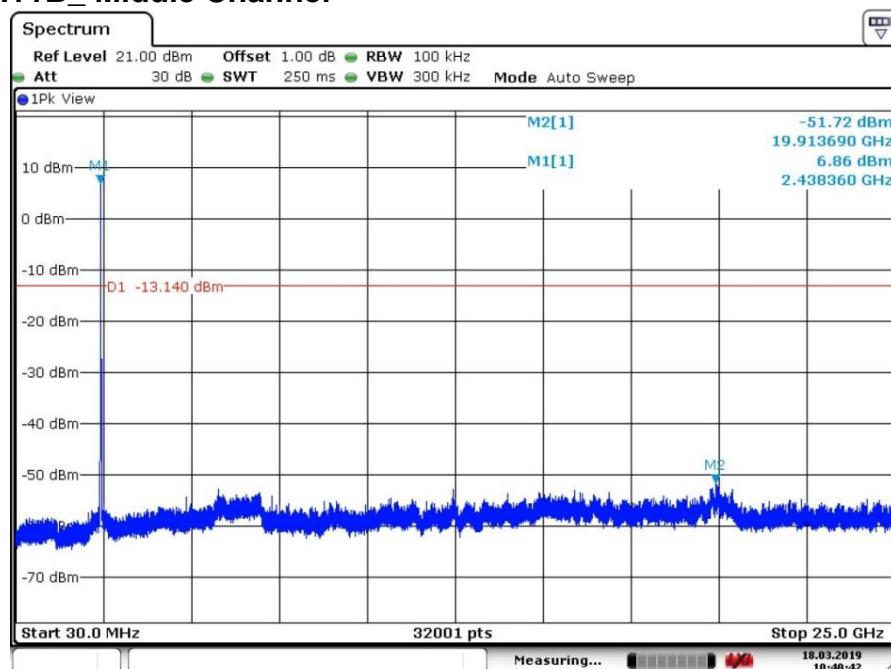
### 4.8.1.1 ANT1

#### 4.8.1.1.1 802.11B\_Lowest Channel



Date: 18.MAR.2019 10:41:32

#### 4.8.1.1.2 802.11B\_Middle Channel



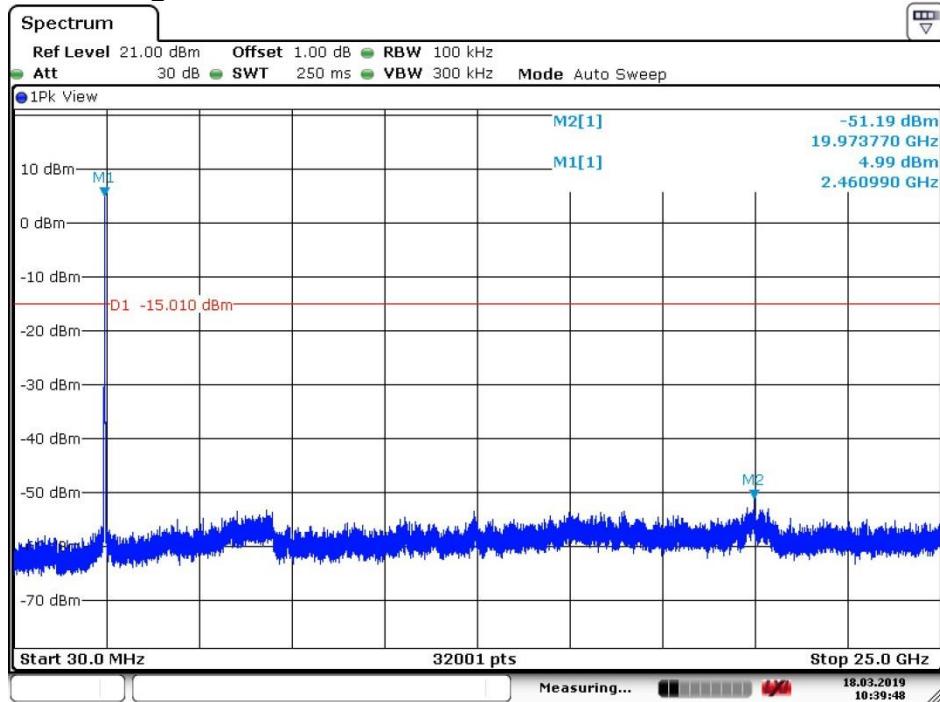
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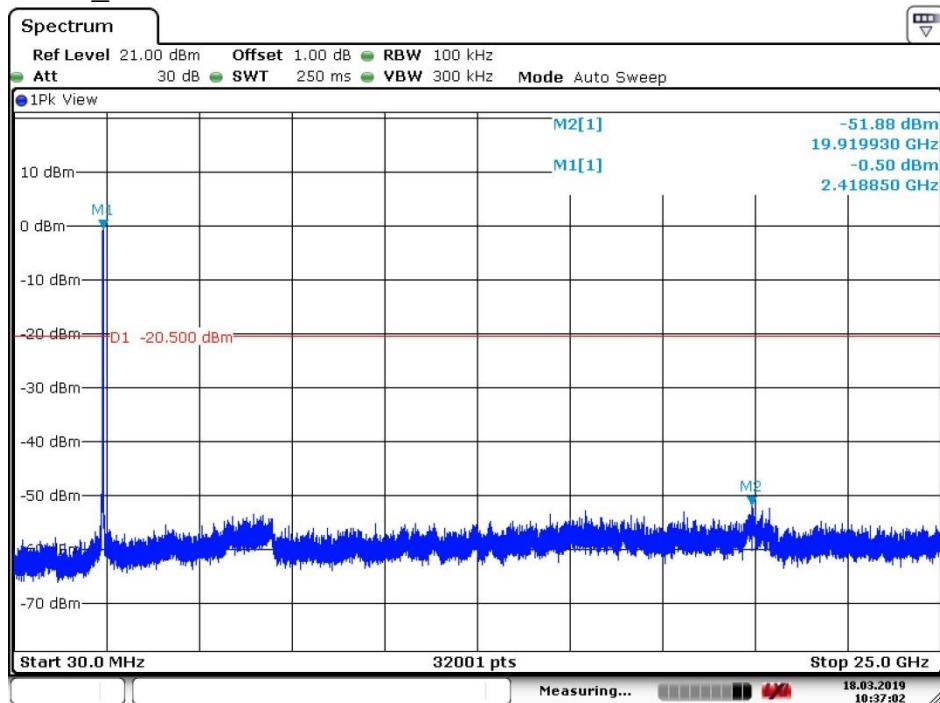
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**4.8.1.1.3 802.11B\_Highest Channel**

Date: 18.MAR.2019 10:39:48

**4.8.1.1.4 802.11G\_Lowest Channel**

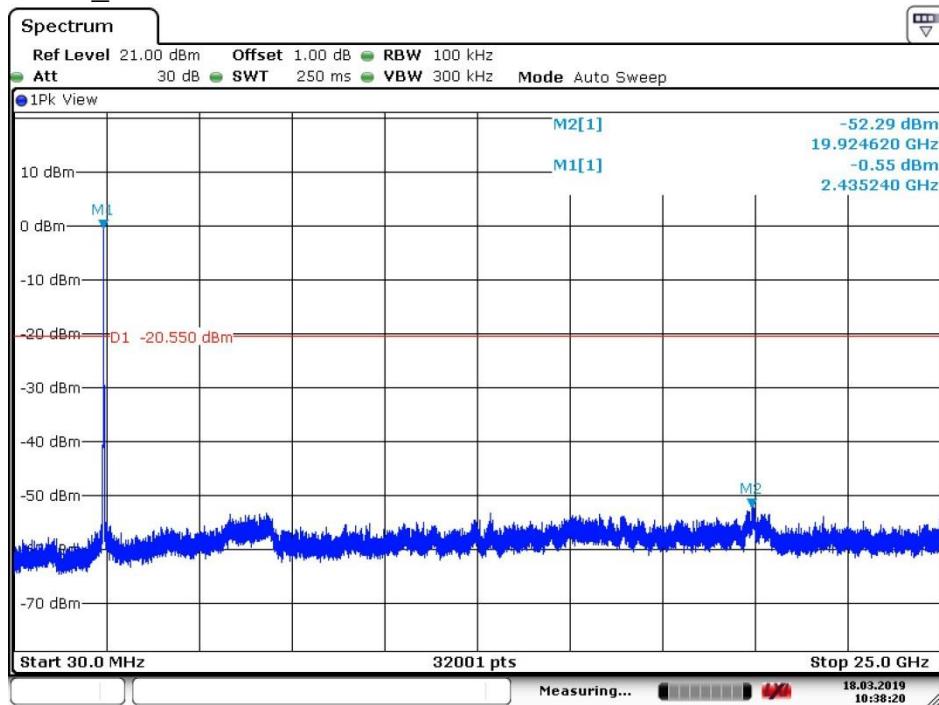
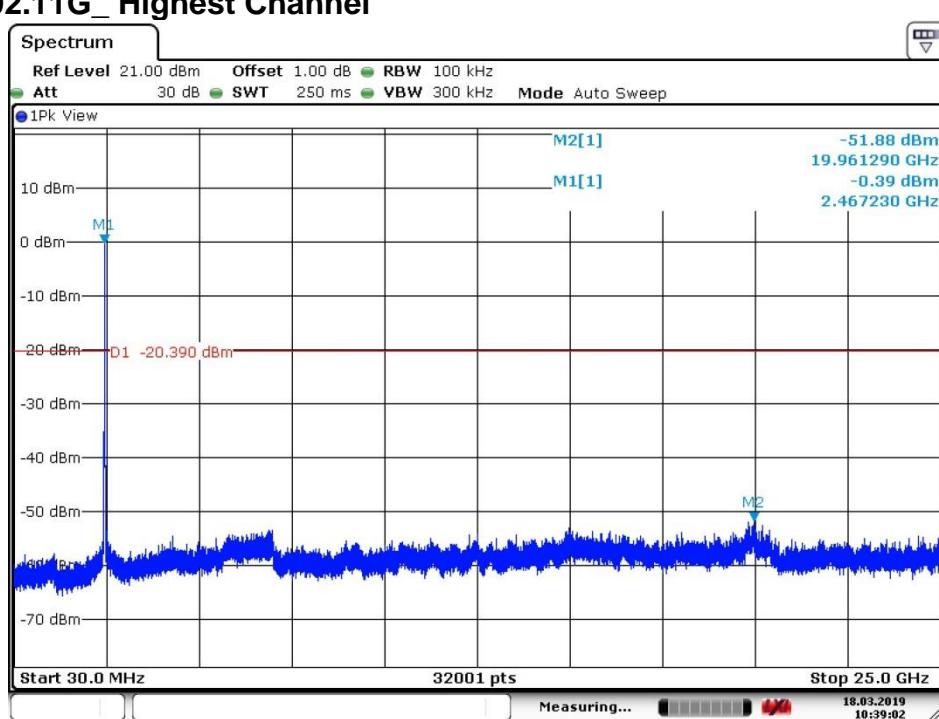
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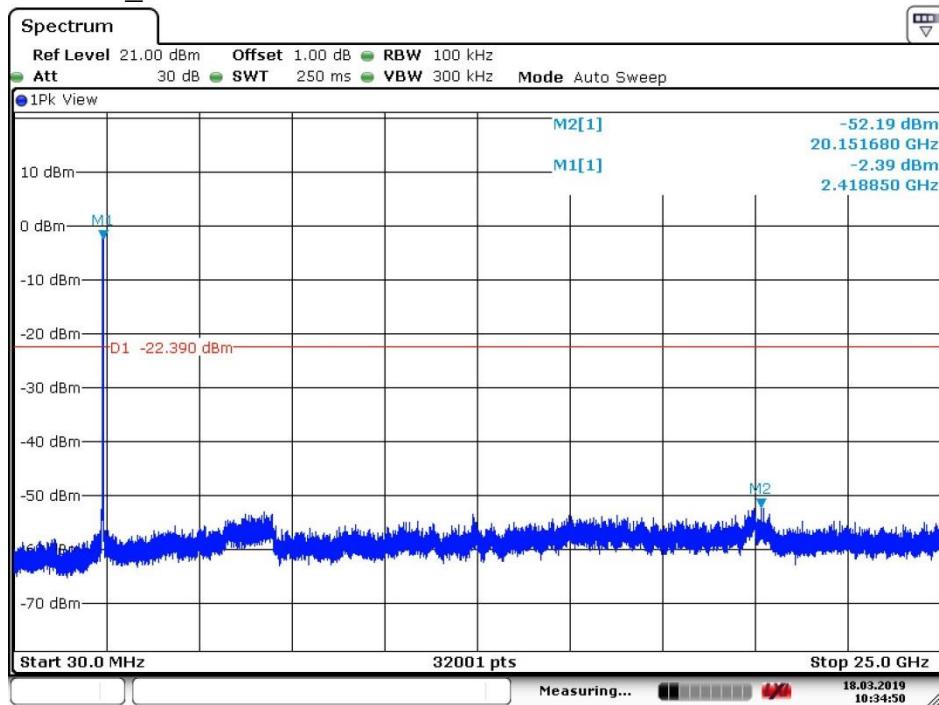


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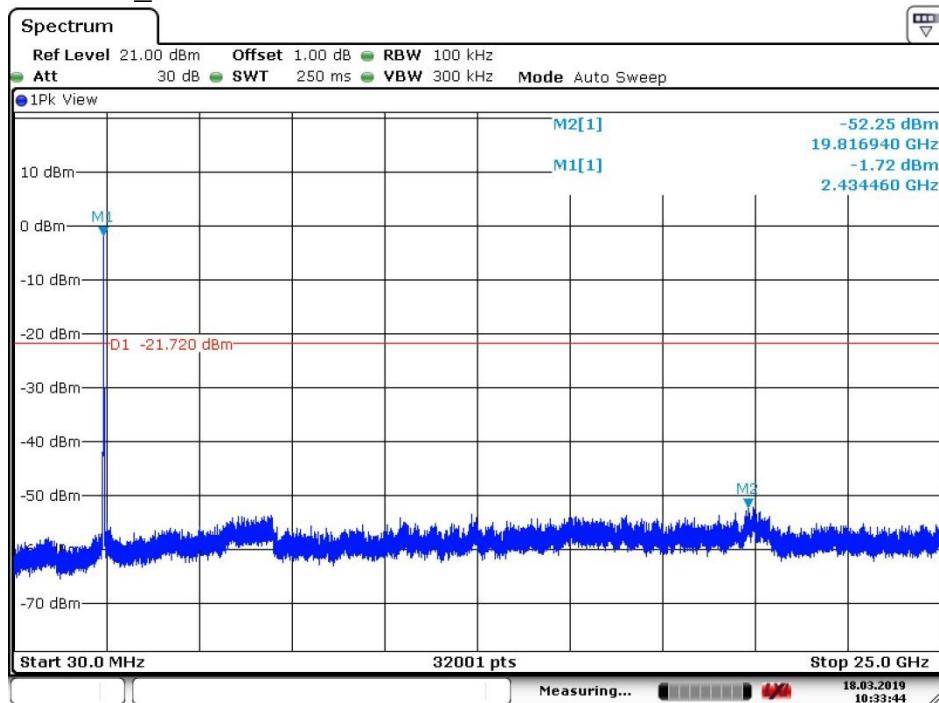
**4.8.1.1.5 802.11G\_ Middle Channel****4.8.1.1.6 802.11G\_ Highest Channel**

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**4.8.1.1.7 802.11N20\_Lowest Channel**

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**4.8.1.1.8 802.11 N20\_Middle Channel**

Date: 18.MAR.2019 10:33:45

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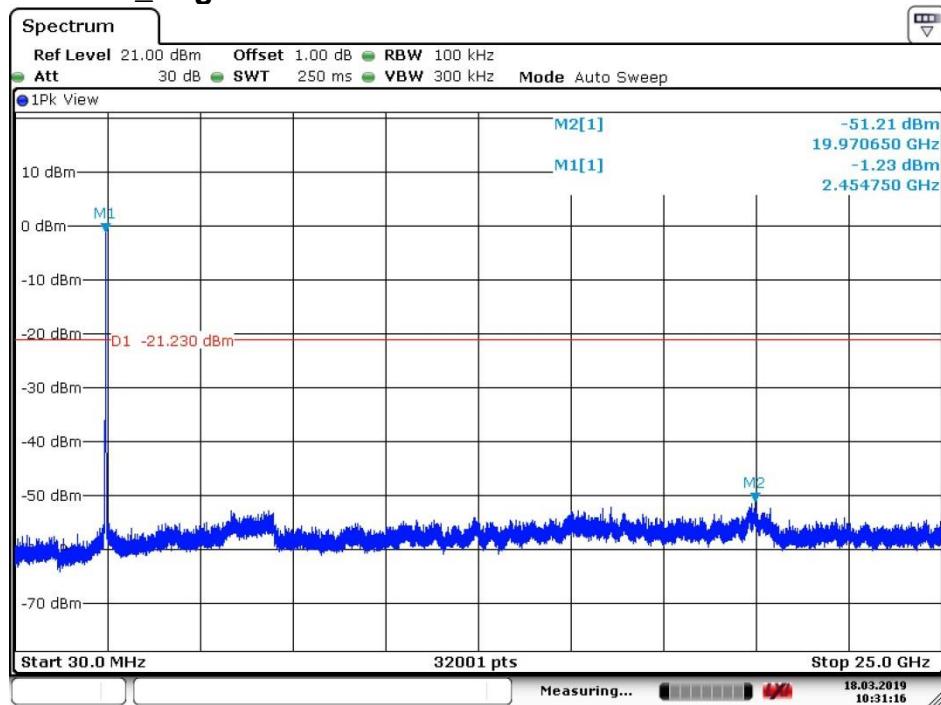


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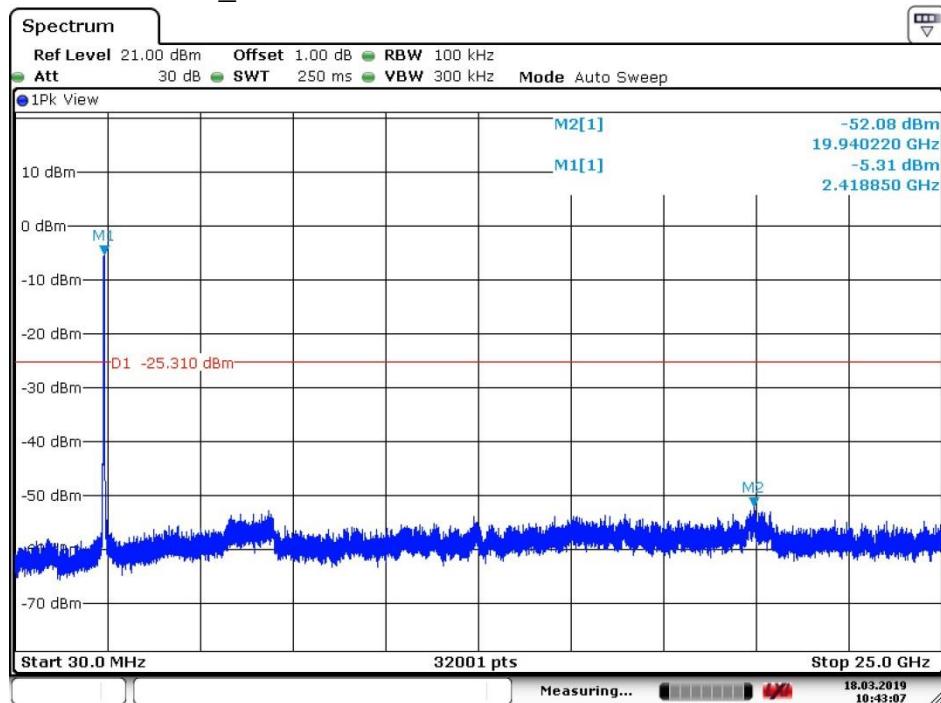
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**4.8.1.1.9 802.11 N20\_Highest Channel**

Date: 18.MAR.2019 10:31:16

**4.8.1.1.10 802.11N40\_Lowest Channel**

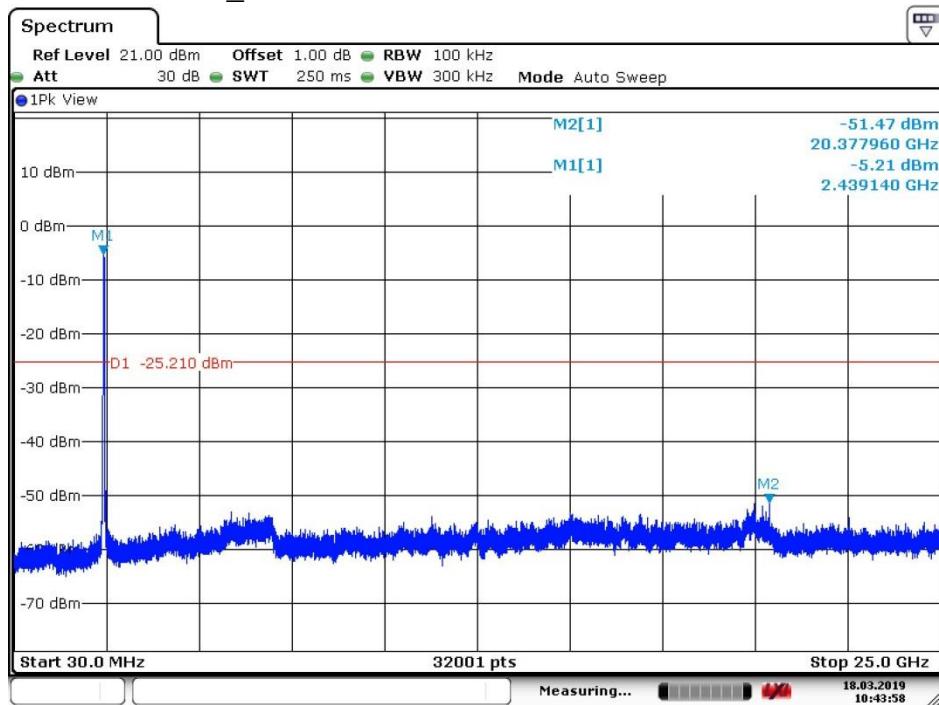
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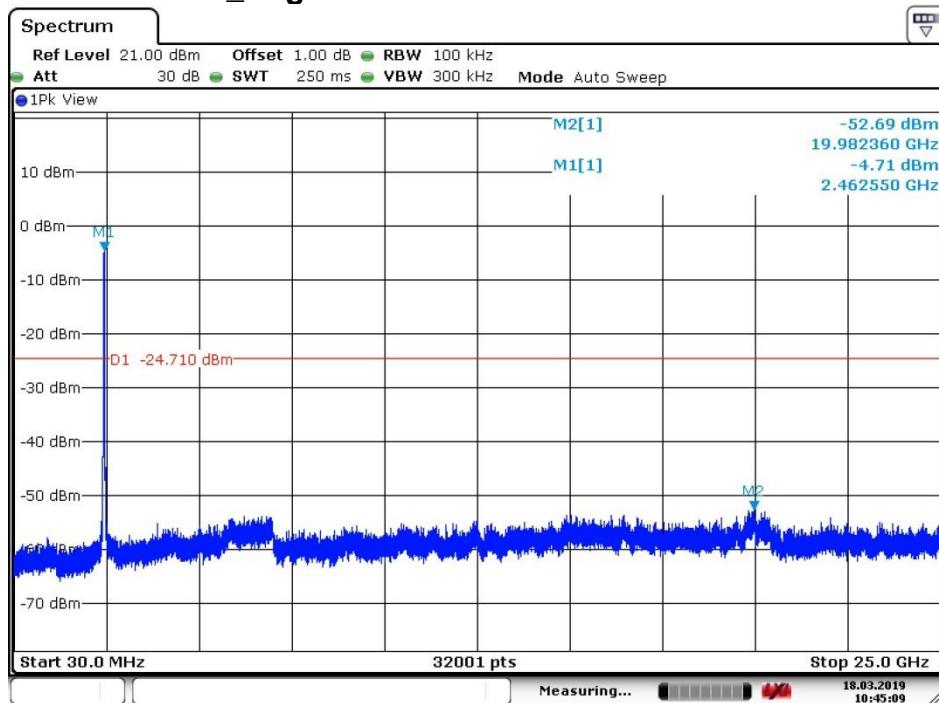
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**4.8.1.1.11 802.11 N40\_ Middle Channel**

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**4.8.1.1.12 802.11 N40\_ Highest Channel**

Date: 18.MAR.2019 10:45:09

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## Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

## 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

Test Setup:	
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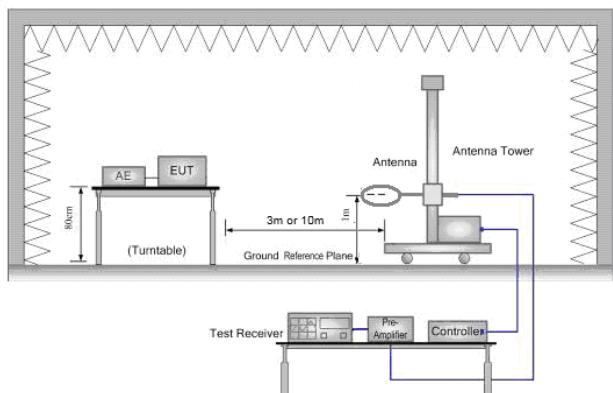


Figure 1. Below 30MHz

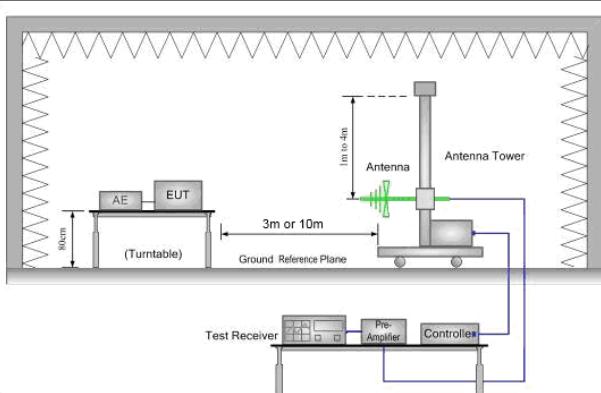


Figure 2. 30MHz to 1GHz

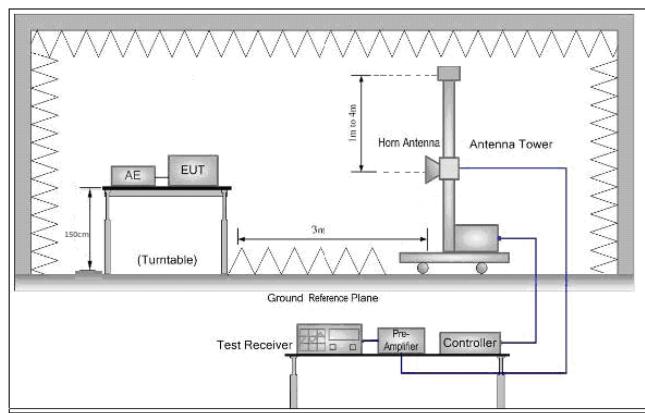


Figure 3. Above 1 GHz

## Test Procedure:

- 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.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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

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	<p>re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <ul style="list-style-type: none"><li>h. Test the EUT in the lowest channel, the middle channel ,the Highest channel</li><li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li><li>j. Repeat above procedures until all frequencies measured was complete.</li></ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



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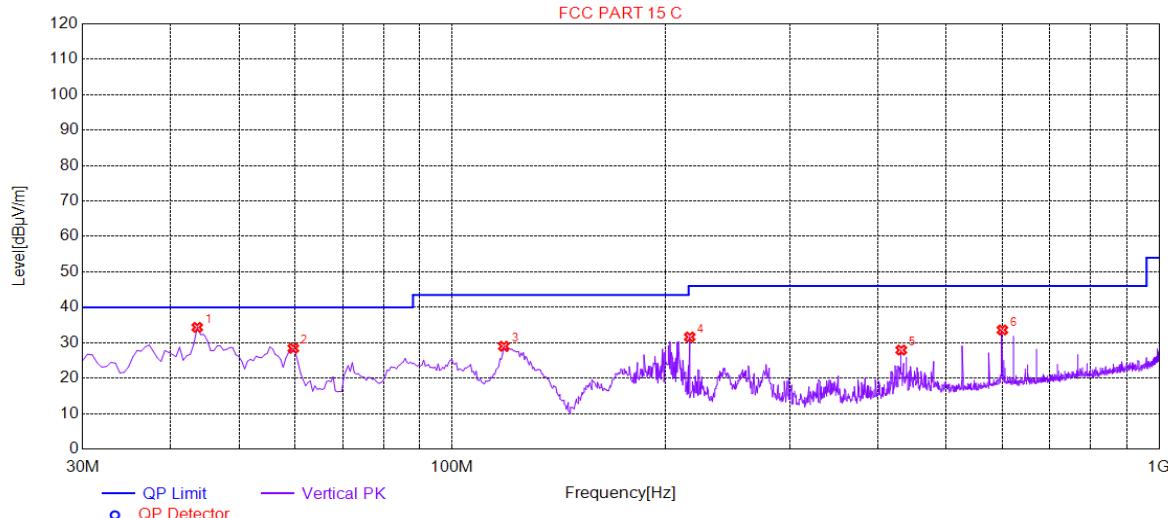
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**4.9.1 Radiated emission below 1GHz****4.9.1.1 Charge + Transmitting, Vertical****Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.5868	34.34	-30.48	40.00	5.66	100	196	Vertical
2	59.5998	28.42	-31.58	40.00	11.58	100	186	Vertical
3	118.3142	29.00	-33.00	43.50	14.50	100	16	Vertical
4	216.8184	31.62	-30.42	46.00	14.38	200	128	Vertical
5	431.7809	27.93	-24.22	46.00	18.07	200	148	Vertical
6	600.1601	33.60	-20.08	46.00	12.40	100	359	Vertical

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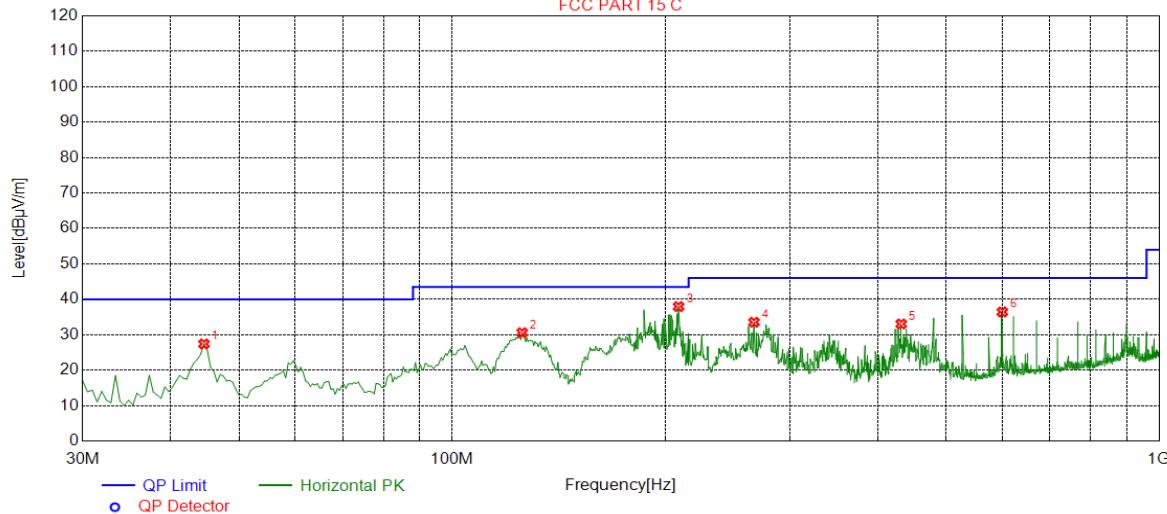
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**4.9.1.2 Charge + Transmitting, Horizontal**

FCC PART 15 C

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.5573	27.40	-30.29	40.00	12.60	200	284	Horizontal
2	125.5928	30.57	-34.11	43.50	12.93	200	83	Horizontal
3	209.0545	37.94	-30.64	43.50	5.56	100	81	Horizontal
4	267.2836	33.53	-28.80	46.00	12.47	100	324	Horizontal
5	431.7809	33.04	-24.22	46.00	12.96	100	38	Horizontal
6	600.1601	36.42	-20.08	46.00	9.58	300	12	Horizontal

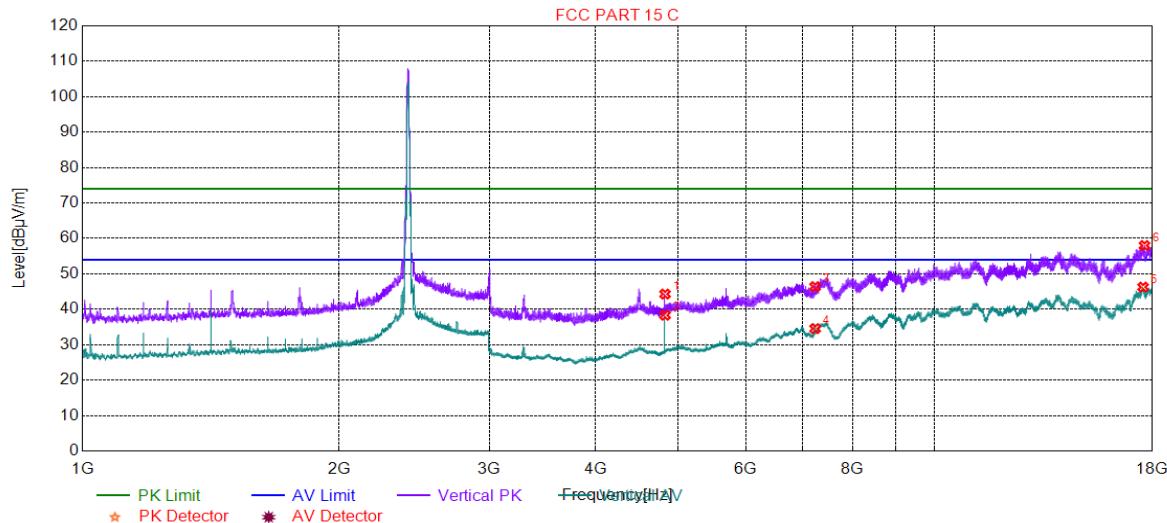
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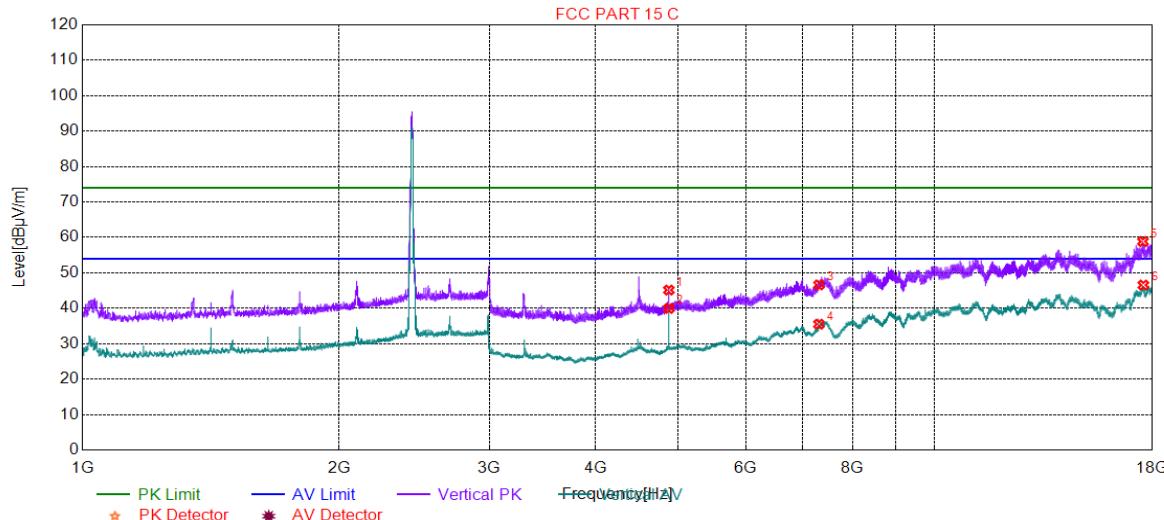
**4.9.2 Transmitter emission above 1GHz****4.9.2.1 ANT1****4.9.2.1.1 802.11B\_Lowest Channel\_Verical****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.000	44.30	-20.09	74.00	29.70	150	321	Vertical
2	4824.000	38.32	-20.09	54.00	15.68	150	308	Vertical
3	7236.000	46.39	-12.40	74.00	27.61	150	296	Vertical
4	7236.000	34.55	-12.40	54.00	19.45	150	284	Vertical
5	17547.47	46.26	0.96	54.00	7.74	150	63	Vertical
6	17616.98	57.99	1.19	74.00	16.01	150	1	Vertical

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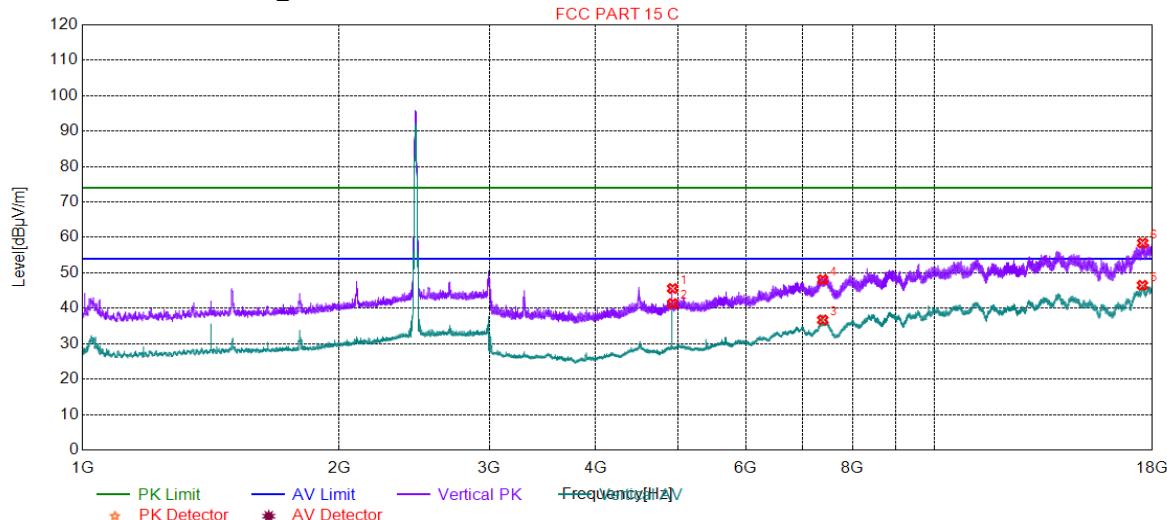


**4.9.2.1.2 802.11B\_ Middle Channel\_ Vertical****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.000	45.15	-19.37	74.00	28.85	150	113	Vertical
2	4874.000	39.97	-19.37	54.00	14.03	150	311	Vertical
3	7311.000	46.60	-11.50	74.00	27.40	150	311	Vertical
4	7311.000	35.52	-11.50	54.00	18.48	150	286	Vertical
5	17541.47	58.85	0.88	74.00	15.15	150	170	Vertical
6	17560.47	46.55	1.12	54.00	7.45	150	279	Vertical

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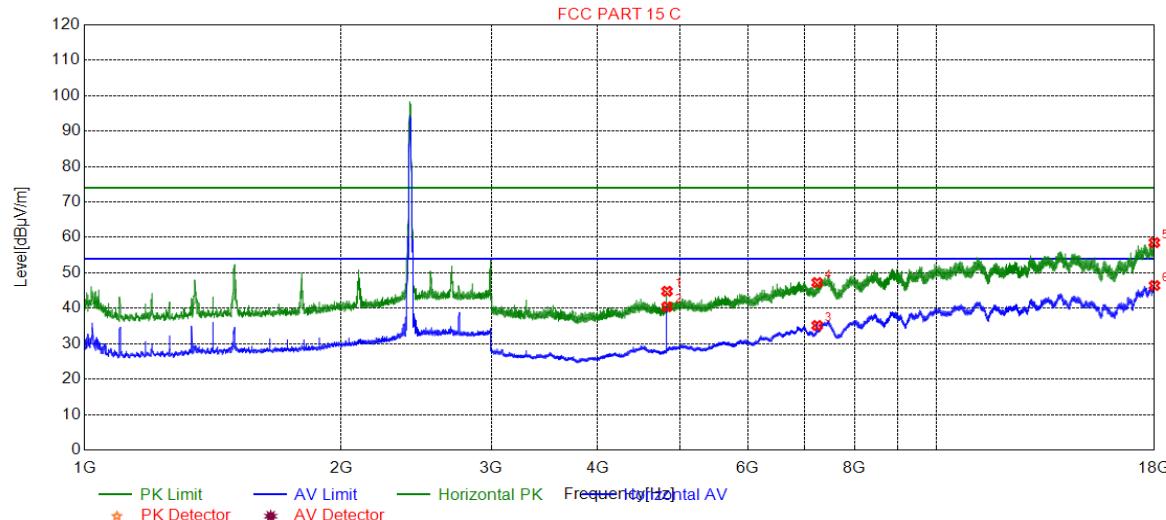
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**4.9.2.1.3 802.11B\_Highest Channel\_Verical****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.000	45.58	-18.87	74.00	28.42	150	322	Vertical
2	4924.692	41.33	-18.86	54.00	12.67	150	310	Vertical
3	7386.000	36.70	-10.72	54.00	17.30	150	298	Vertical
4	7386.000	48.08	-10.72	74.00	25.92	150	89	Vertical
5	17516.47	46.49	0.56	54.00	7.51	150	215	Vertical
6	17528.47	58.40	0.71	74.00	15.60	150	344	Vertical

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**4.9.2.1.4 802.11B\_Lowest Channel\_Horizontal****Suspected List**

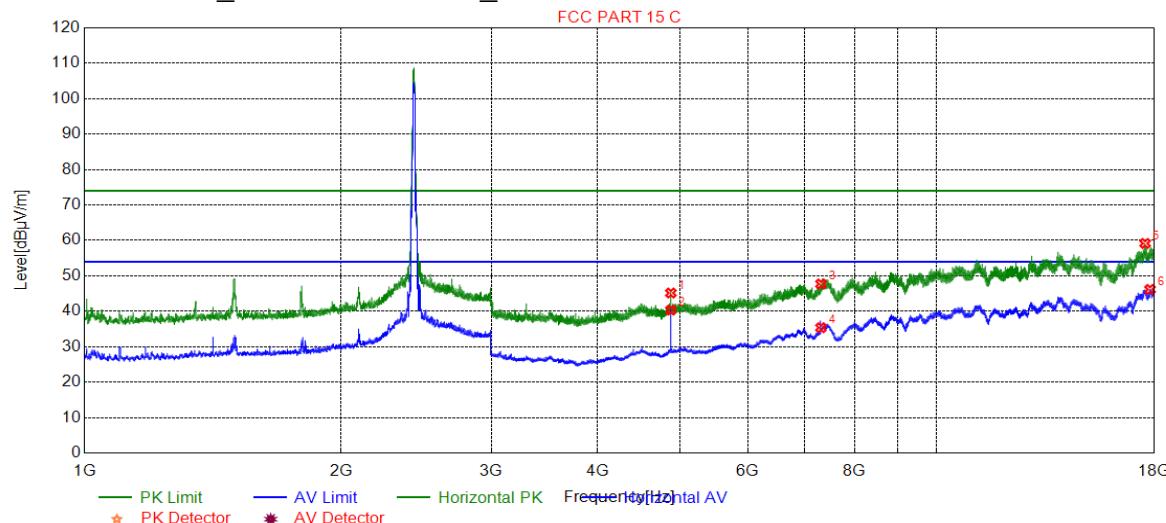
<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4823.682	44.81	-20.10	74.00	29.19	150	16	Horizontal
2	4824.682	40.43	-20.08	54.00	13.57	150	16	Horizontal
3	7236.000	35.15	-12.40	54.00	18.85	150	357	Horizontal
4	7236.000	47.26	-12.40	74.00	26.74	150	211	Horizontal
5	17992.99	58.54	-0.40	74.00	15.46	150	236	Horizontal
6	18000.00	46.42	-0.35	54.00	7.58	150	1	Horizontal

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**4.9.2.1.5 802.11B\_ Middle Channel\_ Horizontal****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.000	45.16	-19.37	74.00	28.84	150	30	Horizontal
2	4874.000	40.34	-19.37	54.00	13.66	150	16	Horizontal
3	7311.000	47.72	-11.50	74.00	26.28	150	360	Horizontal
4	7311.000	35.37	-11.50	54.00	18.63	150	16	Horizontal
5	17547.97	59.16	0.96	74.00	14.84	150	128	Horizontal
6	17783.48	46.17	-0.80	54.00	7.83	150	1	Horizontal

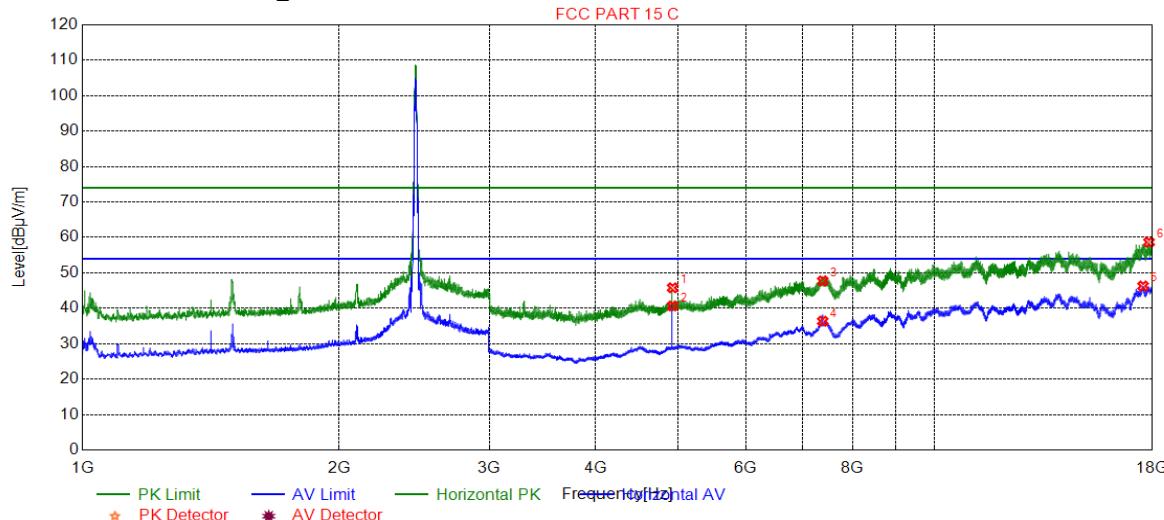
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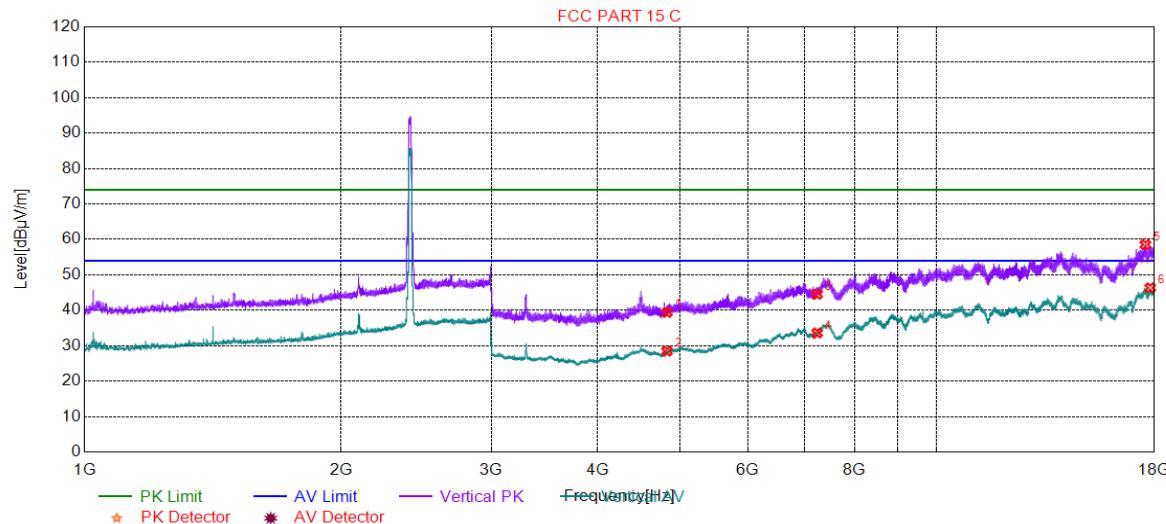
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**4.9.2.1.6 802.11B\_Highest Channel\_Horizontal****Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.000	45.78	-18.87	74.00	28.22	150	16	Horizontal
2	4924.000	40.67	-18.87	54.00	13.33	150	16	Horizontal
3	7386.000	47.72	-10.72	74.00	26.28	150	40	Horizontal
4	7386.000	36.36	-10.72	54.00	17.64	150	16	Horizontal
5	17548.97	46.29	0.98	54.00	7.71	150	18	Horizontal
6	17833.49	58.66	-0.88	74.00	15.34	150	127	Horizontal

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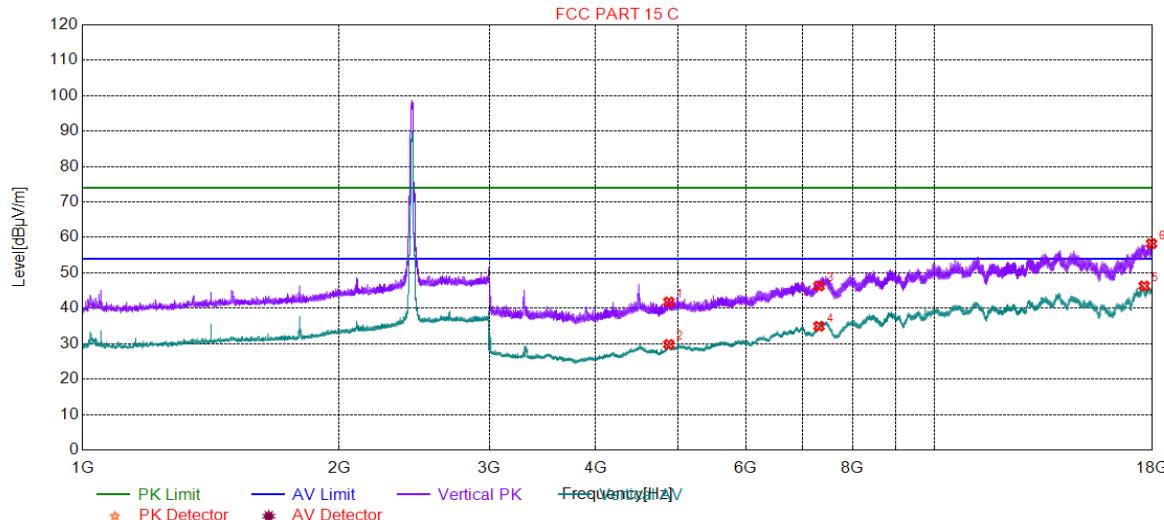
**4.9.2.1.7 802.11G\_Lowest Channel\_Verical****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.000	39.40	-20.09	74.00	34.60	150	176	Vertical
2	4824.000	28.47	-20.09	54.00	25.53	150	324	Vertical
3	7236.000	44.54	-12.40	74.00	29.46	150	16	Vertical
4	7236.000	33.62	-12.40	54.00	20.38	150	126	Vertical
5	17564.47	58.54	1.18	74.00	15.46	150	191	Vertical
6	17791.98	46.35	-0.79	54.00	7.65	150	147	Vertical

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**4.9.2.1.8 802.11G\_ Middle Channel\_ Vertical****Suspected List**

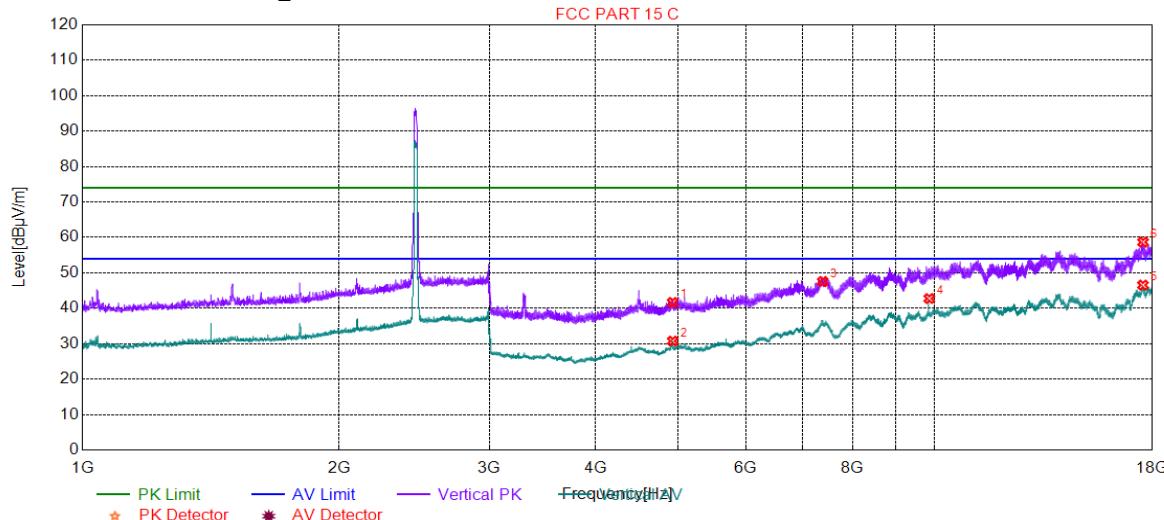
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.000	41.79	-19.37	74.00	32.21	150	126	Vertical
2	4874.000	29.80	-19.37	54.00	24.20	150	311	Vertical
3	7311.000	46.30	-11.50	74.00	27.70	150	163	Vertical
4	7311.000	34.94	-11.50	54.00	19.06	150	212	Vertical
5	17602.48	46.30	1.57	54.00	7.70	150	84	Vertical
6	17952.49	58.24	-0.71	74.00	15.76	150	106	Vertical

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**4.9.2.1.9 802.11G\_Highest Channel\_Verical****Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.000	41.65	-18.87	74.00	32.35	150	312	Vertical
2	4924.000	30.75	-18.87	54.00	23.25	150	312	Vertical
3	7386.000	47.55	-10.72	74.00	26.45	150	213	Vertical
4	9848.592	42.76	-5.63	54.00	11.24	150	235	Vertical
5	17541.47	46.55	0.88	54.00	7.45	150	170	Vertical
6	17545.47	58.67	0.93	74.00	15.33	150	170	Vertical

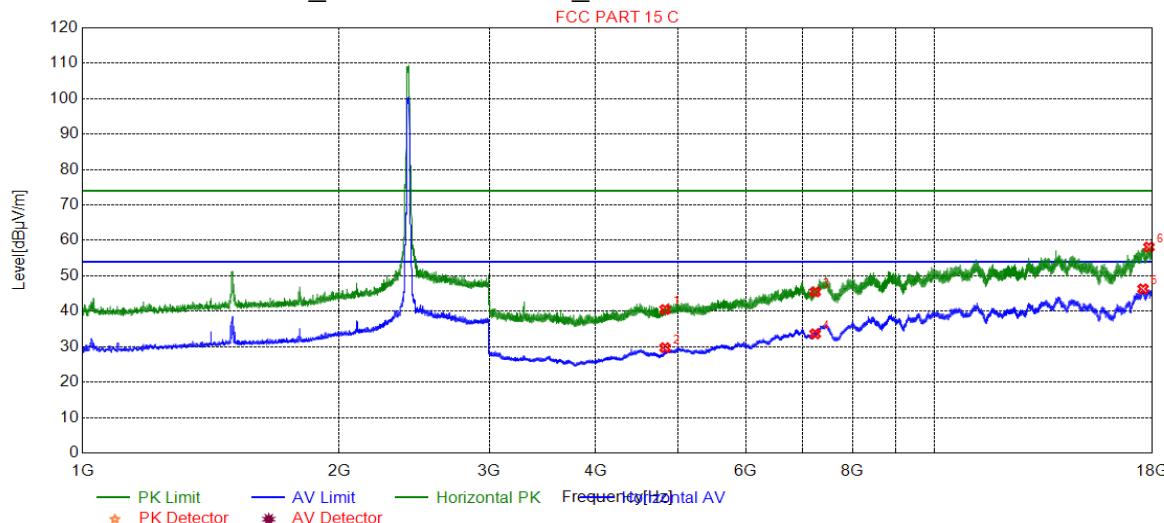
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**4.9.2.1.10 802.11G\_Lowest Channel\_Horizontal****Suspected List**

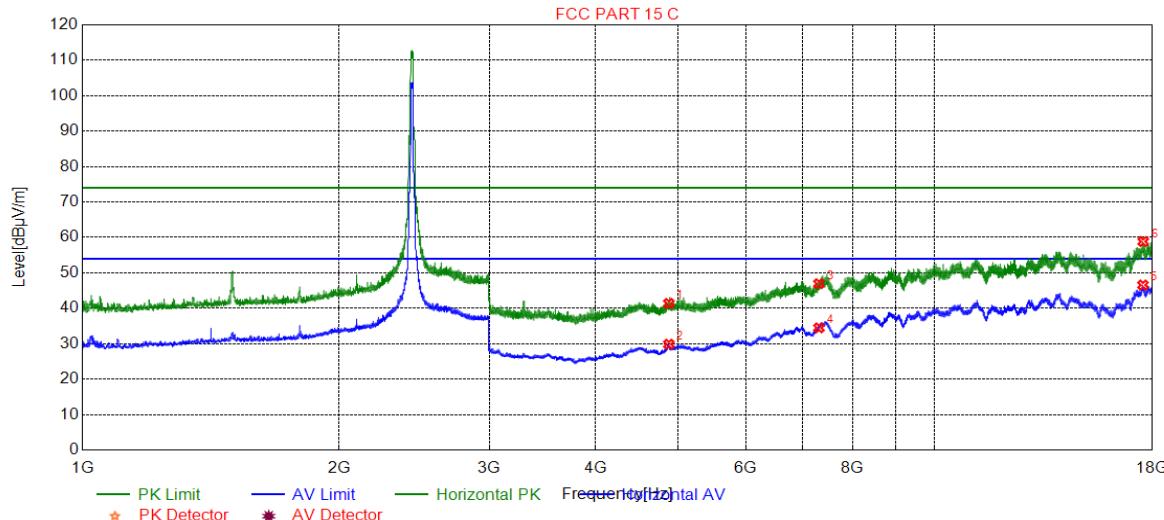
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.000	40.51	-20.09	74.00	33.49	150	41	Horizontal
2	4824.000	29.71	-20.09	54.00	24.29	150	16	Horizontal
3	7236.000	45.47	-12.40	74.00	28.53	150	328	Horizontal
4	7236.000	33.65	-12.40	54.00	20.35	150	69	Horizontal
5	17546.97	46.32	0.95	54.00	7.68	150	301	Horizontal
6	17828.99	58.13	-0.87	74.00	15.87	150	280	Horizontal

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**4.9.2.1.11 802.11G\_Middle Channel\_Horizontal****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.000	41.38	-19.37	74.00	32.62	150	346	Horizontal
2	4874.000	29.87	-19.37	54.00	24.13	150	16	Horizontal
3	7311.000	46.95	-11.50	74.00	27.05	150	101	Horizontal
4	7311.000	34.49	-11.50	54.00	19.51	150	298	Horizontal
5	17542.97	46.56	0.90	54.00	7.44	150	128	Horizontal
6	17553.47	58.84	1.03	74.00	15.16	150	106	Horizontal

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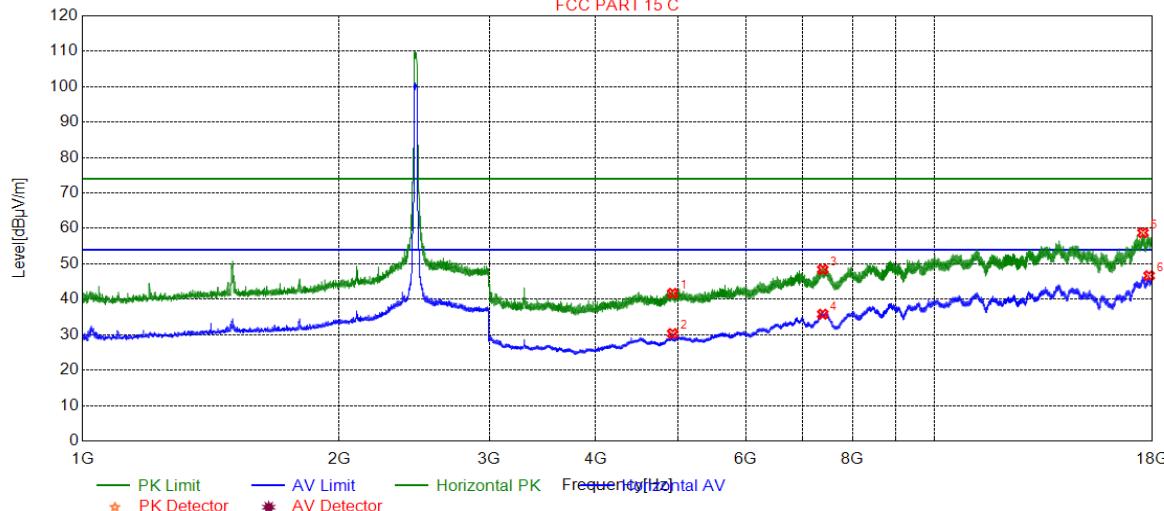
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**4.9.2.1.12 802.11G\_Highest Channel\_Horizontal**

FCC PART 15 C

**Suspected List**

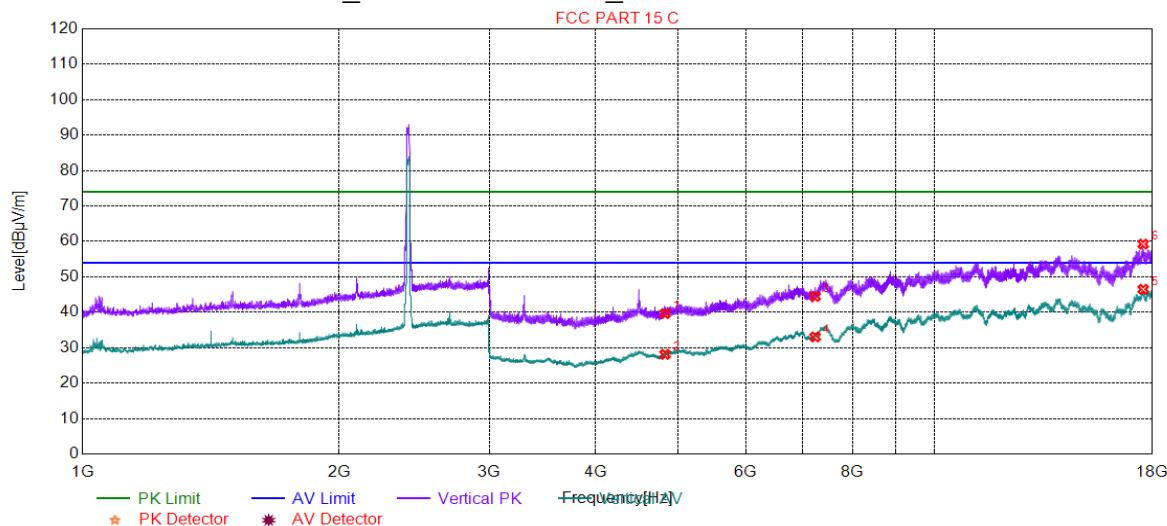
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.000	41.71	-18.87	74.00	32.29	150	288	Horizontal
2	4924.000	30.35	-18.87	54.00	23.65	150	16	Horizontal
3	7386.000	48.40	-10.72	74.00	25.60	150	90	Horizontal
4	7386.000	35.80	-10.72	54.00	18.20	150	90	Horizontal
5	17542.47	58.77	0.89	74.00	15.23	150	61	Horizontal
6	17836.49	46.66	-0.89	54.00	7.34	150	279	Horizontal

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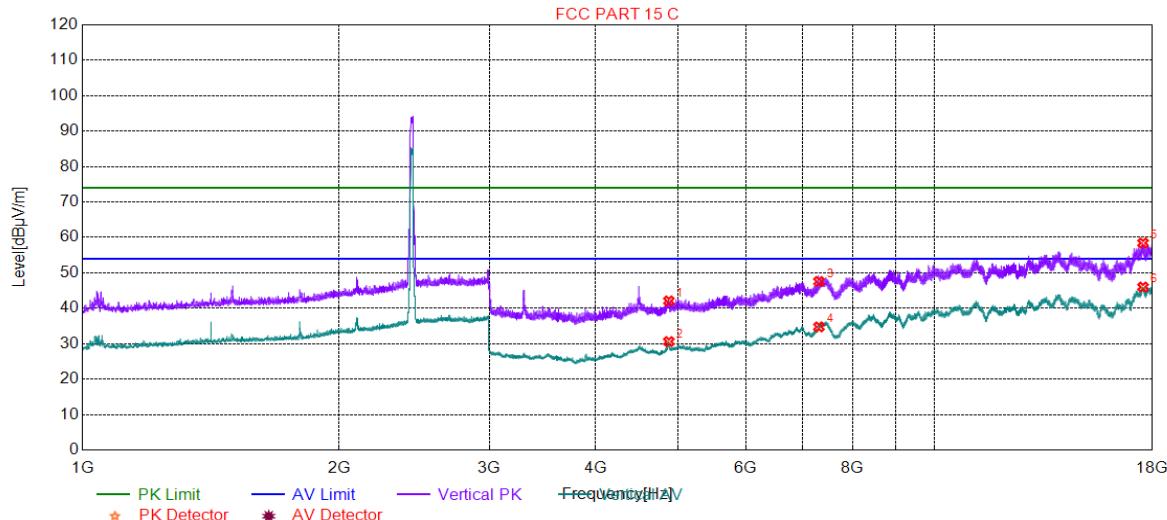
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**4.9.2.1.13 802.11N20\_Lowest Channel\_Verical****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.000	39.64	-20.09	74.00	34.36	150	28	Vertical
2	4824.000	28.14	-20.09	54.00	25.86	150	236	Vertical
3	7236.000	44.47	-12.40	74.00	29.53	150	113	Vertical
4	7236.000	33.06	-12.40	54.00	20.94	150	284	Vertical
5	17553.47	46.48	1.03	54.00	7.52	150	18	Vertical
6	17553.47	59.25	1.03	74.00	14.75	150	105	Vertical

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**4.9.2.1.14 802.11N20\_Middle Channel\_Verical****Suspected List**

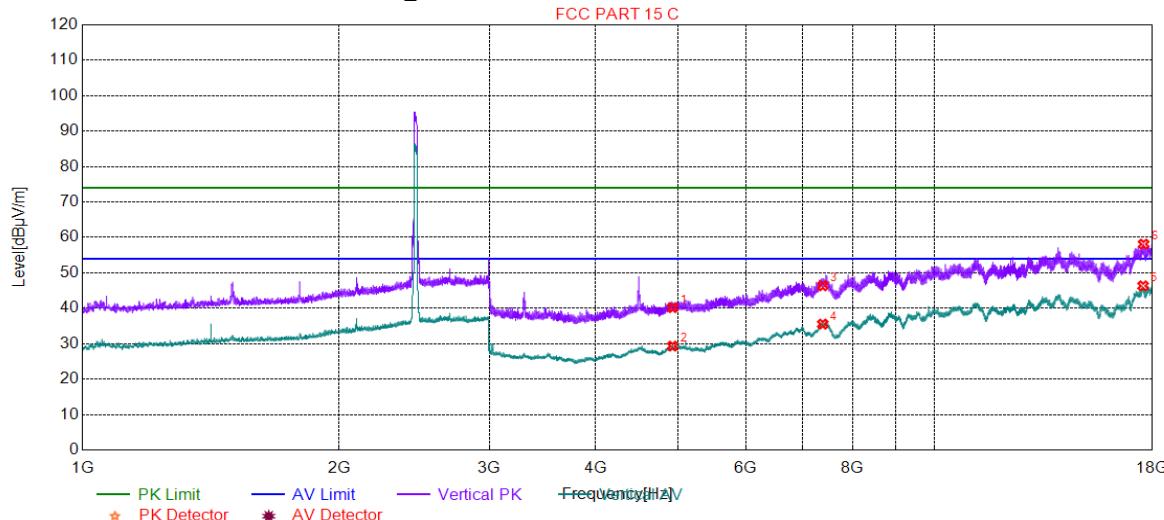
<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.000	42.09	-19.37	74.00	31.91	150	335	Vertical
2	4874.000	30.61	-19.37	54.00	23.39	150	323	Vertical
3	7311.000	47.57	-11.50	74.00	26.43	150	335	Vertical
4	7311.000	34.76	-11.50	54.00	19.24	150	274	Vertical
5	17544.97	58.43	0.93	74.00	15.57	150	128	Vertical
6	17545.47	46.00	0.93	54.00	8.00	150	171	Vertical

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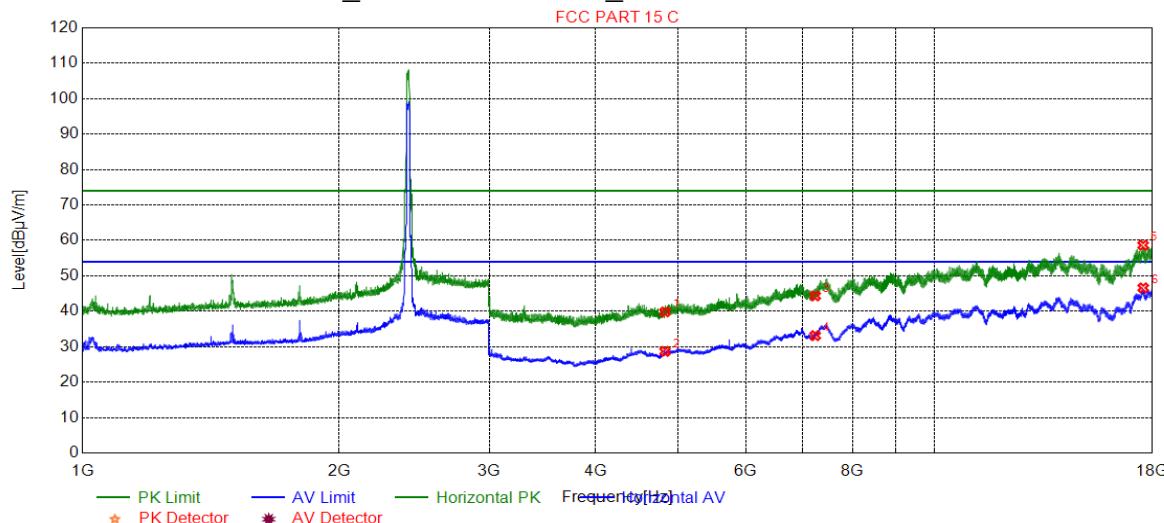
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**4.9.2.1.15 802.11N20\_Highest Channel\_Verical****Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.000	40.19	-18.87	74.00	33.81	150	321	Vertical
2	4924.000	29.33	-18.87	54.00	24.67	150	309	Vertical
3	7386.000	46.35	-10.72	74.00	27.65	150	247	Vertical
4	7386.000	35.54	-10.72	54.00	18.46	150	40	Vertical
5	17547.97	46.32	0.96	54.00	7.68	150	323	Vertical
6	17572.97	58.11	1.28	74.00	15.89	150	323	Vertical

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**4.9.2.1.16 802.11N20\_Lowest Channel\_Horizontal****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.000	39.82	-20.09	74.00	34.18	150	176	Horizontal
2	4824.000	28.68	-20.09	54.00	25.32	150	16	Horizontal
3	7236.000	44.34	-12.40	74.00	29.66	150	253	Horizontal
4	7236.000	33.13	-12.40	54.00	20.87	150	191	Horizontal
5	17549.47	58.64	0.98	74.00	15.36	150	167	Horizontal
6	17554.47	46.61	1.05	54.00	7.39	150	210	Horizontal

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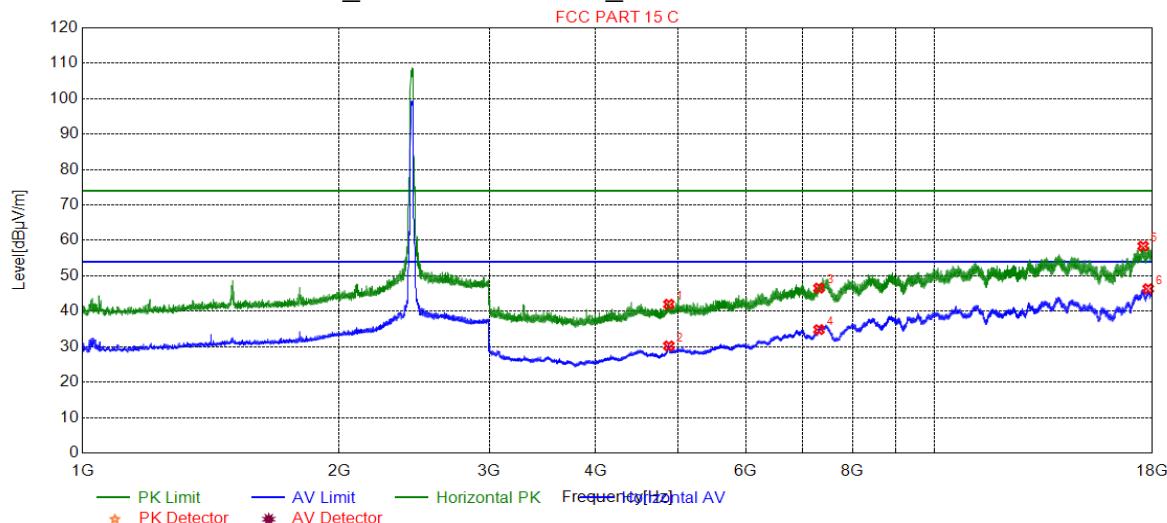
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**4.9.2.1.17 802.11N20\_Middle Channel\_Horizontal****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.000	41.99	-19.37	74.00	32.01	150	32	Horizontal
2	4874.000	30.23	-19.37	54.00	23.77	150	32	Horizontal
3	7311.000	46.55	-11.50	74.00	27.45	150	262	Horizontal
4	7311.000	34.83	-11.50	54.00	19.17	150	286	Horizontal
5	17550.97	58.38	1.00	74.00	15.62	150	279	Horizontal
6	17791.48	46.36	-0.79	54.00	7.64	150	301	Horizontal

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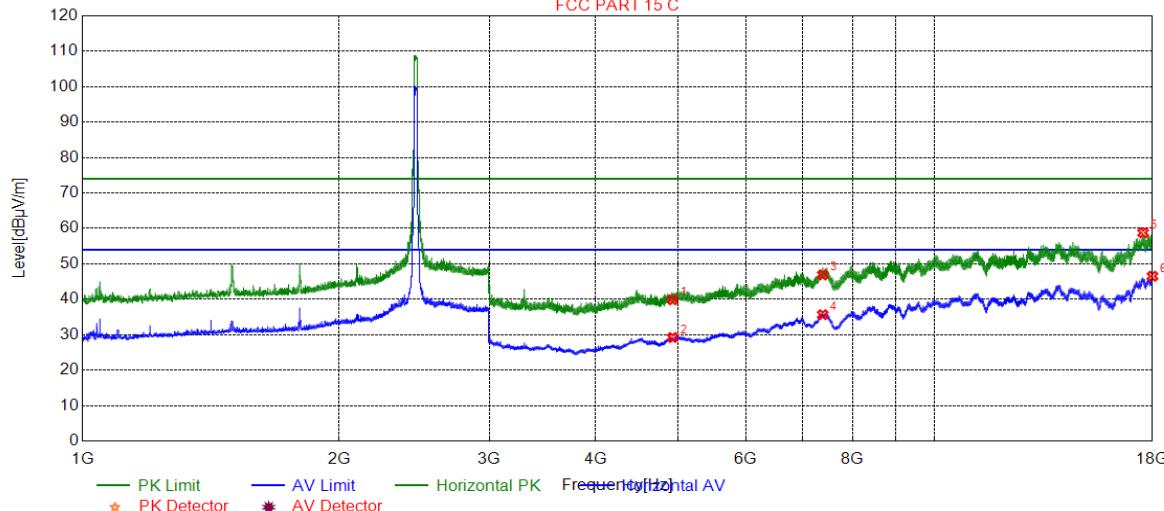
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**4.9.2.1.18 802.11N20\_Highest Channel\_Horizontal**

FCC PART 15 C

**Suspected List**

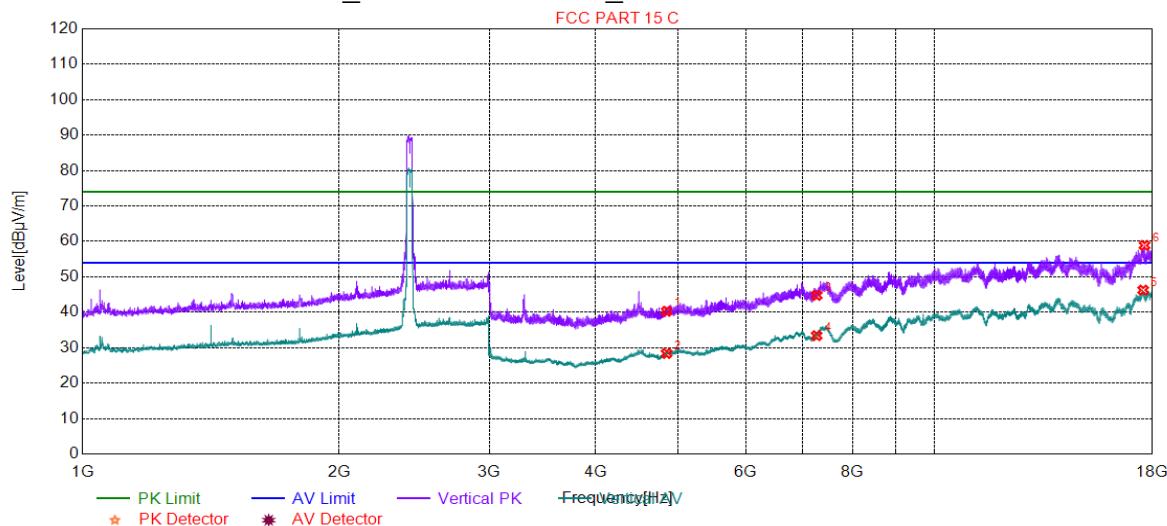
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.000	39.85	-18.87	74.00	34.15	150	267	Horizontal
2	4924.000	29.22	-18.87	54.00	24.78	150	316	Horizontal
3	7386.000	46.89	-10.72	74.00	27.11	150	157	Horizontal
4	7386.000	35.66	-10.72	54.00	18.34	150	304	Horizontal
5	17545.97	58.77	0.94	74.00	15.23	150	258	Horizontal
6	17998.49	46.51	-0.36	54.00	7.49	150	19	Horizontal

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**4.9.2.1.19 802.11N40\_Lowest Channel\_Verical****Suspected List**

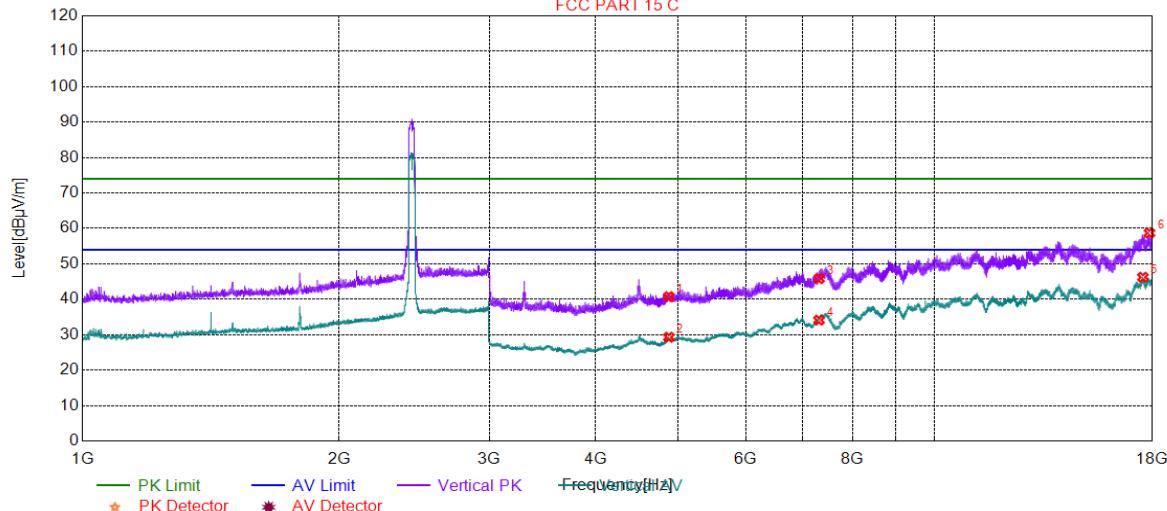
<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.000	40.28	-19.80	74.00	33.72	150	52	Vertical
2	4844.000	28.39	-19.80	54.00	25.61	150	284	Vertical
3	7266.000	44.78	-12.03	74.00	29.22	150	199	Vertical
4	7266.000	33.41	-12.03	54.00	20.59	150	321	Vertical
5	17550.97	46.26	1.00	54.00	7.74	150	150	Vertical
6	17615.98	58.88	1.21	74.00	15.12	150	19	Vertical

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**4.9.2.1.20 802.11N40\_Middle Channel\_Verical**

FCC PART 15 C

**Suspected List**

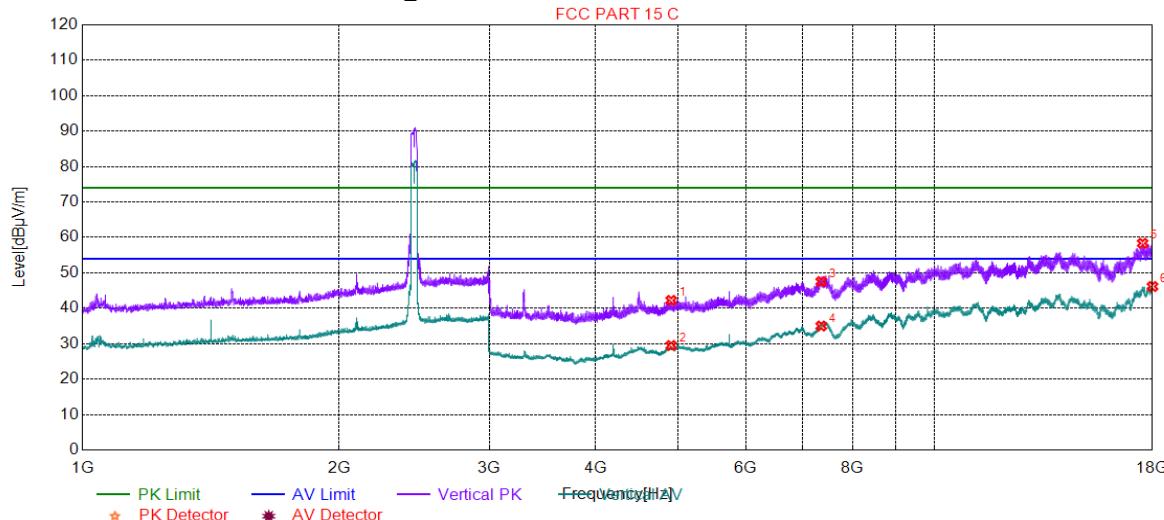
Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.000	40.75	-19.37	74.00	33.25	150	212	Vertical
2	4874.000	29.30	-19.37	54.00	24.70	150	324	Vertical
3	7311.000	45.83	-11.50	74.00	28.17	150	212	Vertical
4	7311.000	34.13	-11.50	54.00	19.87	150	324	Vertical
5	17539.47	46.22	0.86	54.00	7.78	150	84	Vertical
6	17853.99	58.71	-0.95	74.00	15.29	150	171	Vertical

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**4.9.2.1.21 802.11N40\_Highest Channel\_Verical****Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.000	42.24	-18.98	74.00	31.76	150	297	Vertical
2	4904.000	29.50	-18.98	54.00	24.50	150	309	Vertical
3	7356.000	47.54	-11.03	74.00	26.46	150	236	Vertical
4	7356.000	35.00	-11.03	54.00	19.00	150	333	Vertical
5	17527.47	58.35	0.70	74.00	15.65	150	149	Vertical
6	18000.00	46.15	-0.35	54.00	7.85	150	127	Vertical

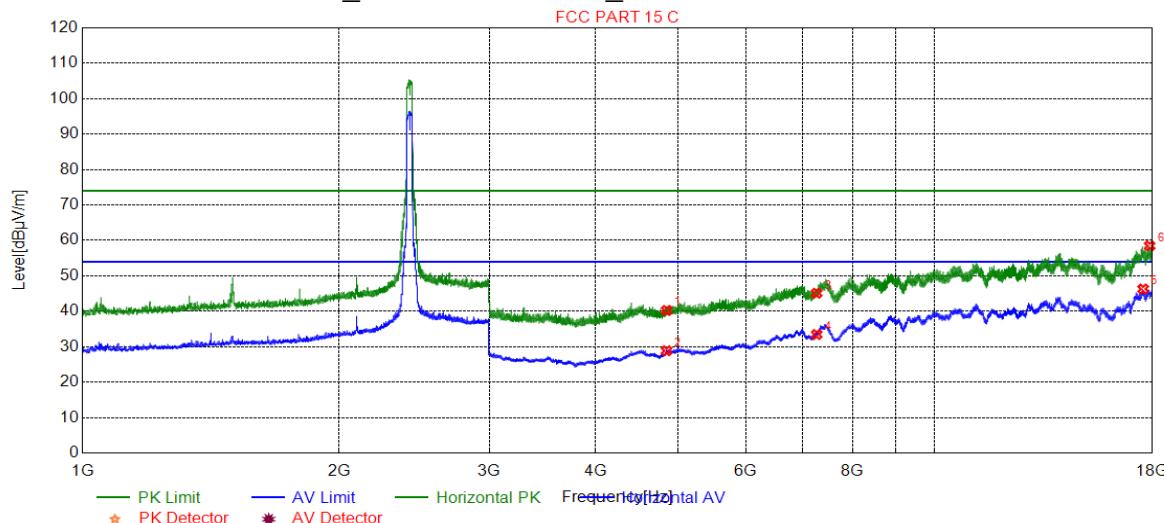
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**4.9.2.1.22 802.11N40\_Lowest Channel\_Horizontal****Suspected List**

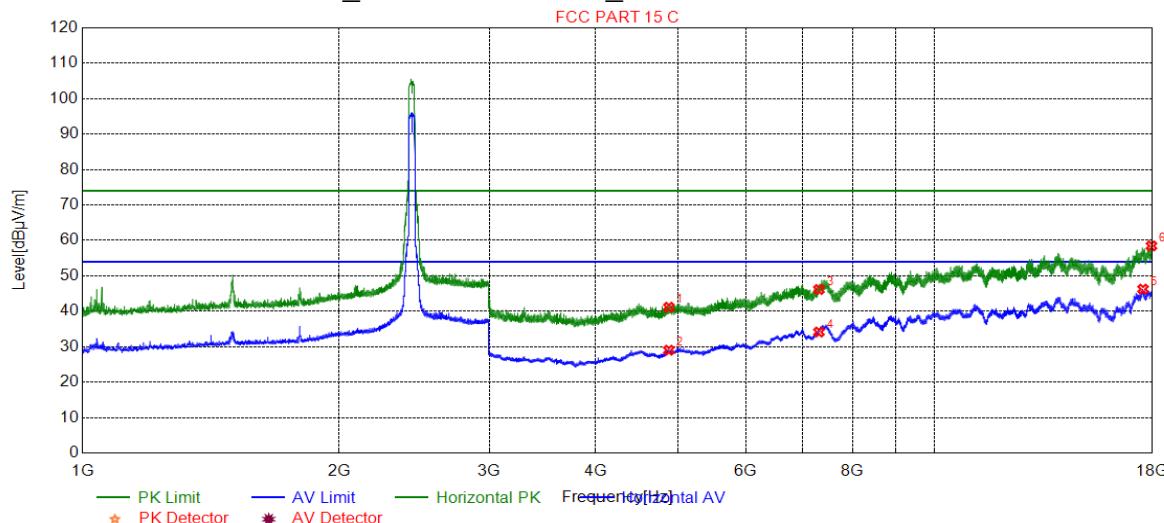
<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.000	40.23	-19.80	74.00	33.77	150	28	Horizontal
2	4844.000	28.87	-19.80	54.00	25.13	150	298	Horizontal
3	7266.000	45.10	-12.03	74.00	28.90	150	236	Horizontal
4	7266.000	33.47	-12.03	54.00	20.53	150	77	Horizontal
5	17550.97	46.29	1.00	54.00	7.71	150	214	Horizontal
6	17862.49	58.47	-0.98	74.00	15.53	150	236	Horizontal

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**4.9.2.1.23 802.11N40\_Middle Channel\_Horizontal****Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.000	41.15	-19.37	74.00	32.85	150	310	Horizontal
2	4874.000	29.02	-19.37	54.00	24.98	150	358	Horizontal
3	7311.000	46.16	-11.50	74.00	27.84	150	126	Horizontal
4	7311.000	34.15	-11.50	54.00	19.85	150	150	Horizontal
5	17545.97	46.25	0.94	54.00	7.75	150	128	Horizontal
6	17951.99	58.46	-0.71	74.00	15.54	150	323	Horizontal

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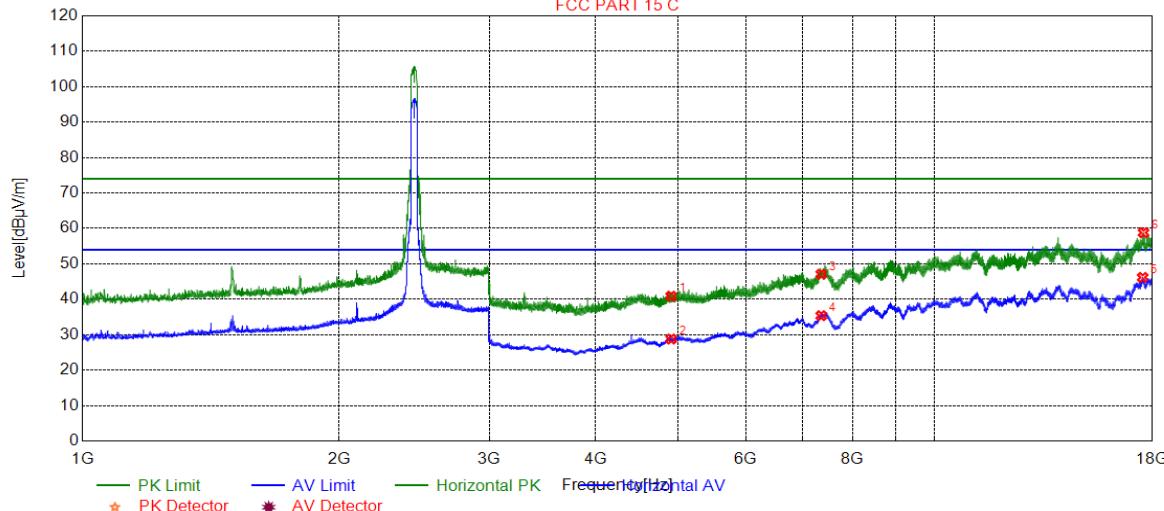
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**4.9.2.1.24 802.11N40\_Highest Channel\_Horizontal**

FCC PART 15 C

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.000	40.88	-18.98	74.00	33.12	150	52	Horizontal
2	4904.000	28.79	-18.98	54.00	25.21	150	247	Horizontal
3	7356.000	47.08	-11.03	74.00	26.92	150	138	Horizontal
4	7356.000	35.38	-11.03	54.00	18.62	150	223	Horizontal
5	17529.47	46.17	0.73	54.00	7.83	150	214	Horizontal
6	17568.47	58.80	1.23	74.00	15.20	150	149	Horizontal

## Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, 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. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.

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## 4.10 Restricted bands around fundamental frequency

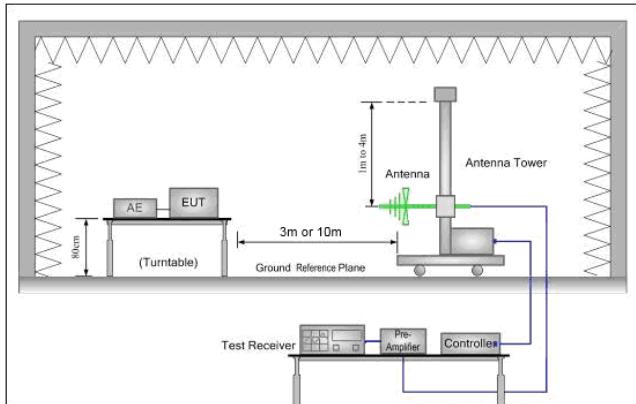
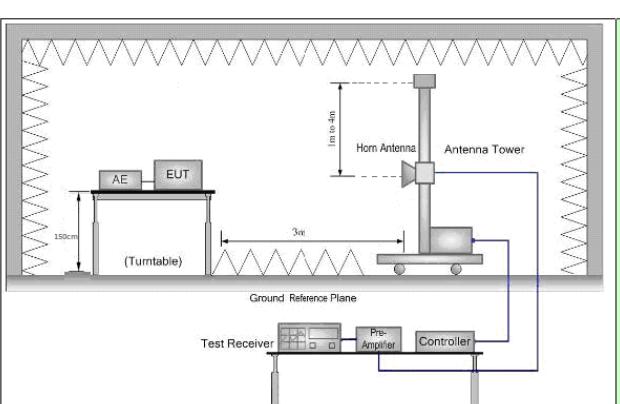
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			
			

Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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	<ul style="list-style-type: none"><li>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.</li><li>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 semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>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.</li><li>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.</li></ul>
Test Procedure:	<ul style="list-style-type: none"><li>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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li><li>h. Test the EUT in the lowest channel , the Highest channel</li><li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.</li><li>j. Repeat above procedures until all frequencies measured was complete.</li></ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge +Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40). Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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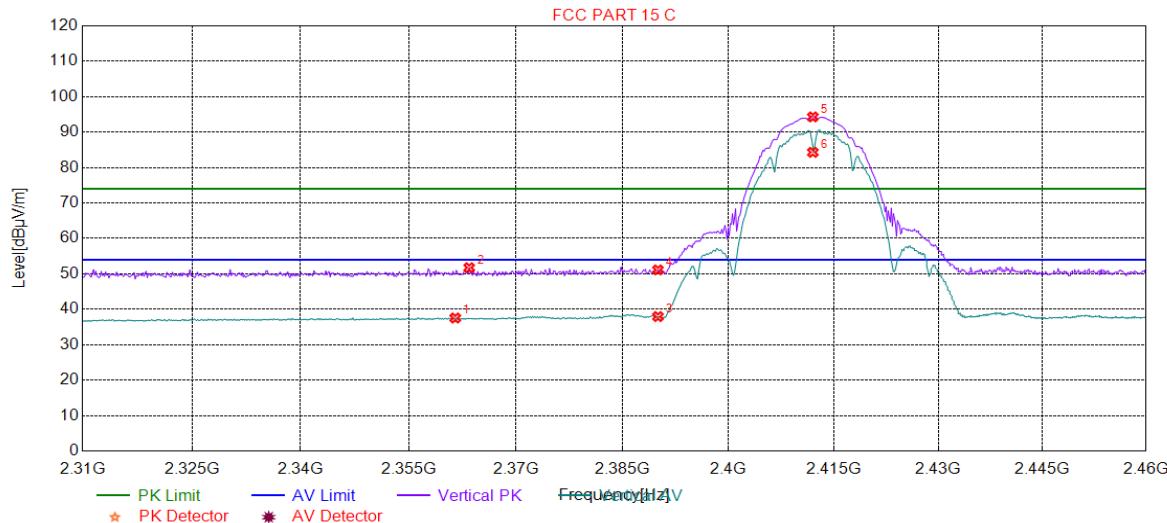


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**Test plot as follows:**

#### 4.10.1 ANT1

##### 4.10.1.1 802.11B\_Lowest Channel\_Verical



#### Suspected List

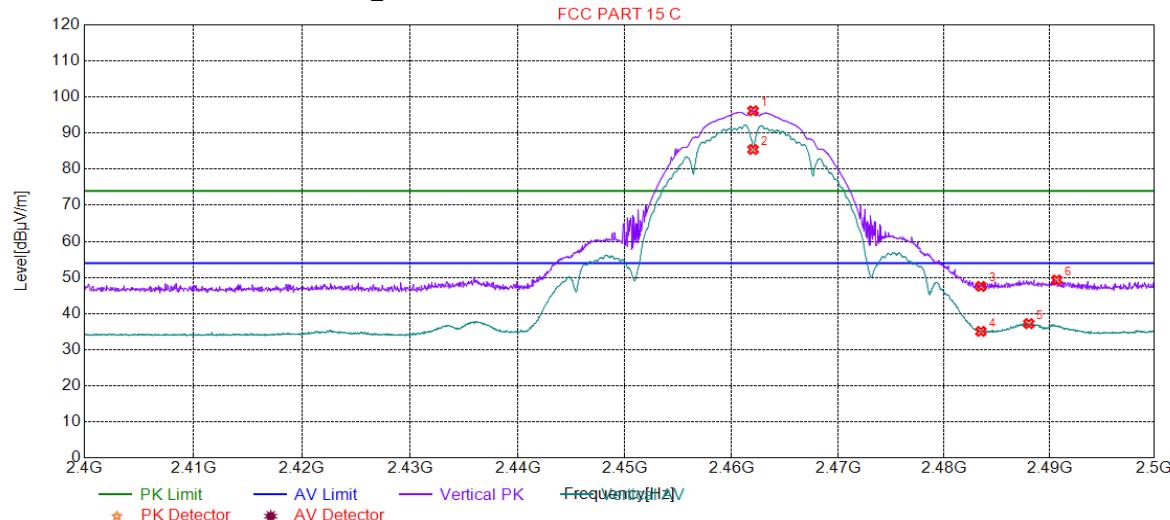
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.501	37.54	1.12	54.00	16.46	150	117	Vertical
2	2363.453	51.75	1.13	74.00	22.25	150	201	Vertical
3	2390.000	37.95	1.25	54.00	16.05	150	346	Vertical
4	2390.000	51.12	1.25	74.00	22.88	150	5	Vertical
5	2412.000	94.30	1.32	74.00	-20.30	150	312	Vertical
6	2412.000	84.30	1.32	54.00	-30.30	150	293	Vertical

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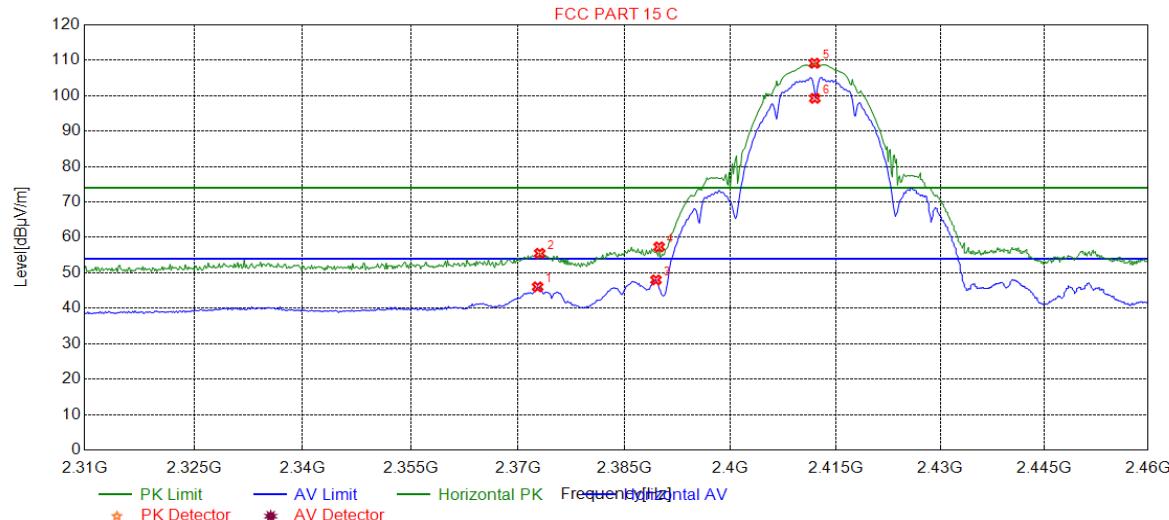
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**4.10.1.2 802.11B\_Highest Channel\_Verical****Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	96.18	1.46	74.00	-22.18	150	295	Vertical
2	2462.000	85.46	1.46	54.00	-31.46	150	299	Vertical
3	2483.500	47.53	1.52	74.00	26.47	150	67	Vertical
4	2483.500	35.06	1.52	54.00	18.94	150	291	Vertical
5	2488.044	37.21	1.54	54.00	16.79	150	176	Vertical
6	2490.695	49.30	1.54	74.00	24.70	150	172	Vertical

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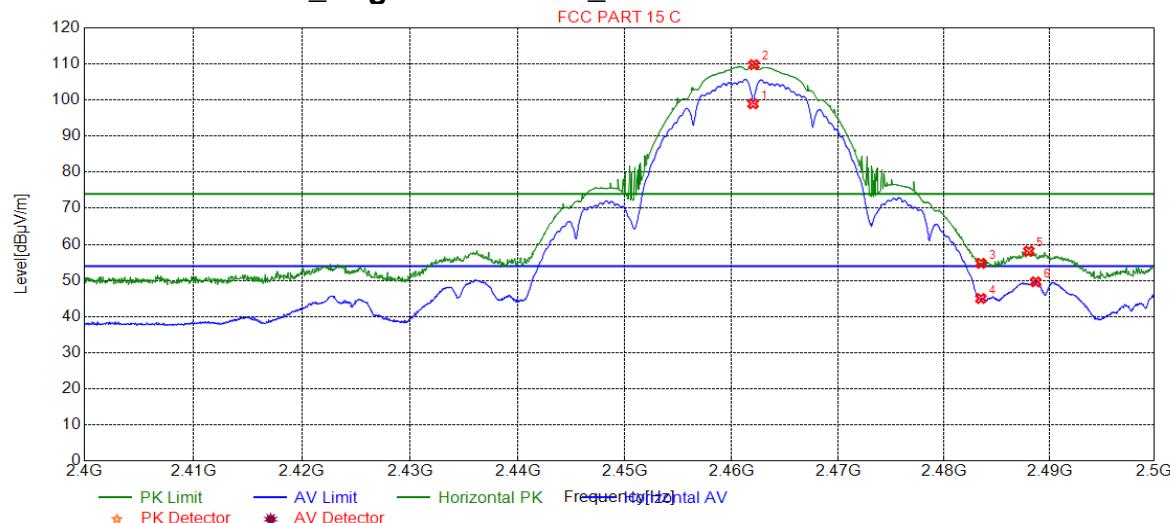
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**4.10.1.3 802.11B\_Lowest Channel\_Horizontal****Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.762	46.04	1.17	54.00	7.96	150	272	Horizontal
2	2373.063	55.50	1.17	74.00	18.50	150	254	Horizontal
3	2389.429	48.01	1.24	54.00	5.99	150	305	Horizontal
4	2389.879	57.33	1.25	74.00	16.67	150	308	Horizontal
5	2411.952	109.17	1.32	74.00	-35.17	150	305	Horizontal
6	2412.000	99.26	1.32	54.00	-45.26	150	295	Horizontal

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**4.10.1.4 802.11B\_Highest Channel\_Horizontal****Suspected List**

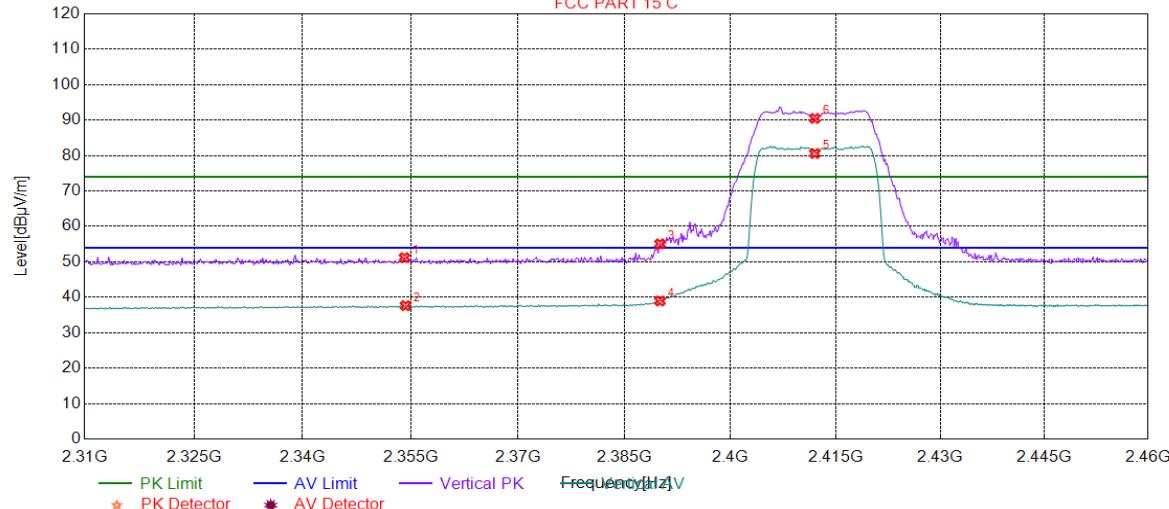
Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	98.95	1.46	54.00	-44.95	150	312	Horizontal
2	2462.081	109.79	1.46	74.00	-35.79	150	312	Horizontal
3	2483.500	54.76	1.52	74.00	19.24	150	308	Horizontal
4	2483.500	45.00	1.52	54.00	9.00	150	308	Horizontal
5	2488.044	58.14	1.54	74.00	15.86	150	304	Horizontal
6	2488.694	49.62	1.54	54.00	4.38	150	327	Horizontal

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**4.10.1.5 802.11G\_Lowest Channel\_Verical**

FCC PART 15 C

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2354.144	51.19	1.09	74.00	22.81	150	256	Vertical
2	2354.294	37.64	1.09	54.00	16.36	150	175	Vertical
3	2390.000	55.08	1.25	74.00	18.92	150	14	Vertical
4	2390.000	38.96	1.25	54.00	15.04	150	14	Vertical
5	2412.000	80.60	1.32	54.00	-26.60	150	301	Vertical
6	2412.000	90.48	1.32	74.00	-16.48	150	307	Vertical

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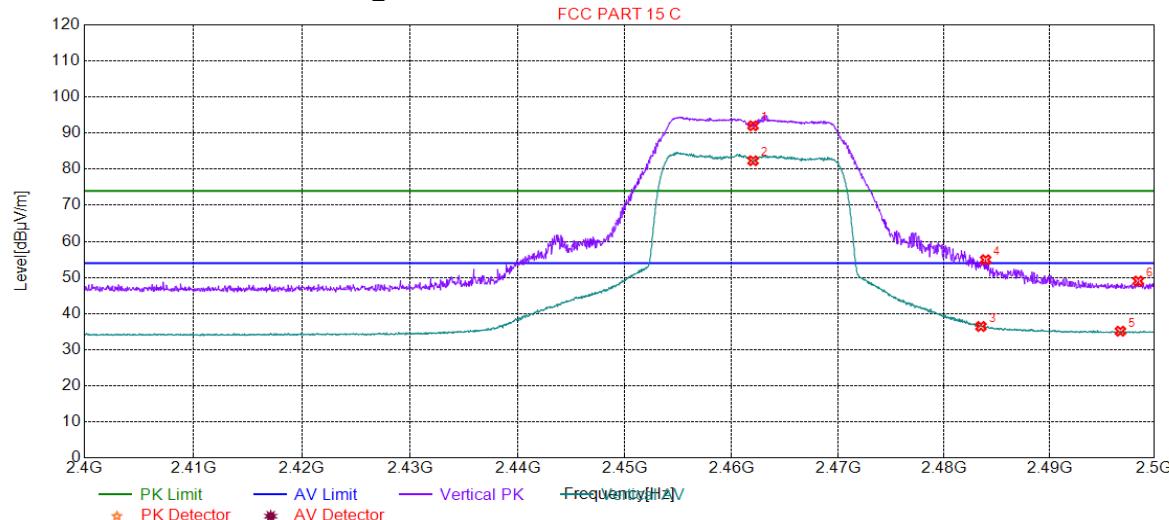
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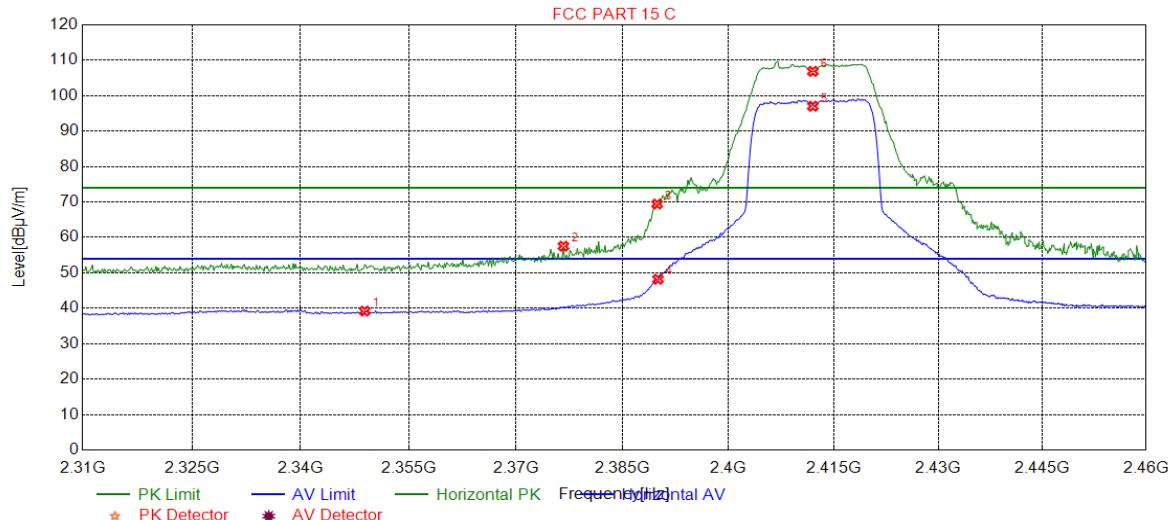
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**4.10.1.6 802.11G\_Highest Channel\_Verical****Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	92.03	1.46	74.00	-18.03	150	67	Vertical
2	2462.000	82.34	1.46	54.00	-28.34	150	63	Vertical
3	2483.500	36.43	1.52	54.00	17.57	150	33	Vertical
4	2483.942	54.91	1.53	74.00	19.09	150	33	Vertical
5	2496.748	35.12	1.56	54.00	18.88	150	288	Vertical
6	2498.449	49.01	1.57	74.00	24.99	150	172	Vertical

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**4.10.1.7 802.11G\_Lowest Channel\_Horizontal****Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2348.888	39.22	1.07	54.00	14.78	150	296	Horizontal
2	2376.666	57.53	1.19	74.00	16.47	150	292	Horizontal
3	2389.879	69.42	1.25	74.00	4.58	150	314	Horizontal
4	2390.000	48.20	1.25	54.00	5.80	150	286	Horizontal
5	2412.000	97.04	1.32	54.00	-43.04	150	310	Horizontal
6	2412.000	106.87	1.32	74.00	-32.87	150	304	Horizontal

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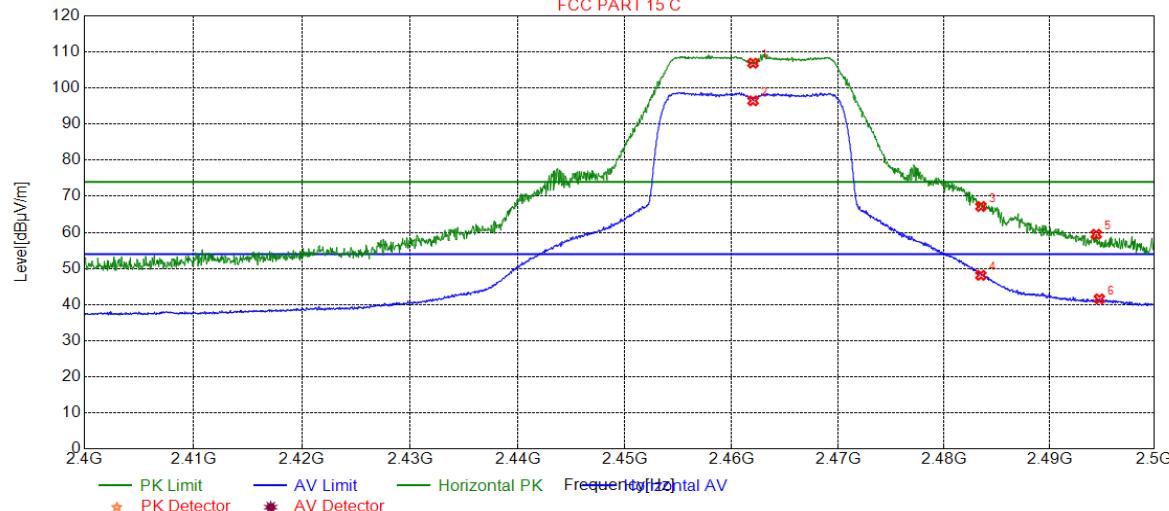
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**4.10.1.8 802.11G\_Highest Channel\_Horizontal**

FCC PART 15 C

**Suspected List**

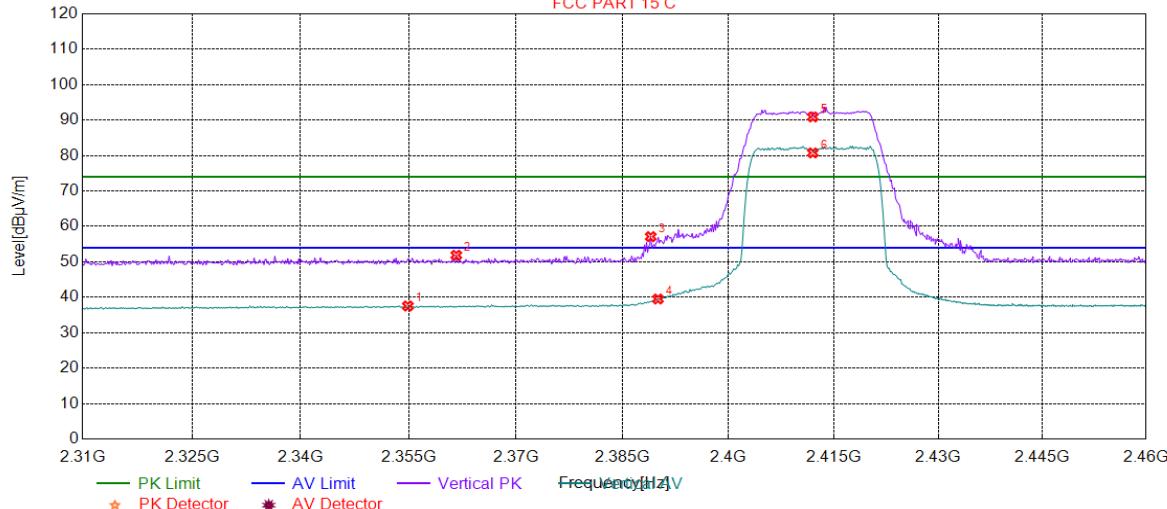
Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	106.89	1.46	74.00	-32.89	150	305	Horizontal
2	2462.000	96.46	1.46	54.00	-42.46	150	323	Horizontal
3	2483.500	67.18	1.52	74.00	6.82	150	308	Horizontal
4	2483.500	48.10	1.52	54.00	5.90	150	305	Horizontal
5	2494.447	59.46	1.55	74.00	14.54	150	316	Horizontal
6	2494.747	41.58	1.56	54.00	12.42	150	316	Horizontal

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**4.10.1.9 802.11N20\_Lowest Channel\_Verical**

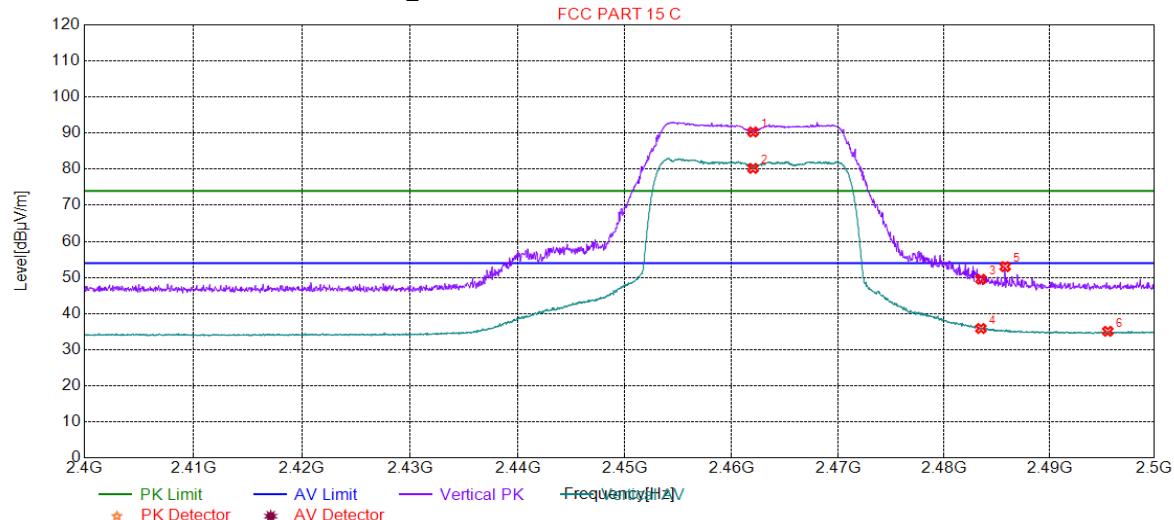
FCC PART 15 C

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2354.894	37.54	1.09	54.00	16.46	150	32	Vertical
2	2361.651	51.88	1.12	74.00	22.12	150	286	Vertical
3	2388.979	57.12	1.24	74.00	16.88	150	293	Vertical
4	2390.000	39.52	1.25	54.00	14.48	150	299	Vertical
5	2412.000	90.91	1.32	74.00	-16.91	150	14	Vertical
6	2412.000	80.75	1.32	54.00	-26.75	150	14	Vertical

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**4.10.1.10 802.11N20\_Highest Channel\_Verical****Suspected List**

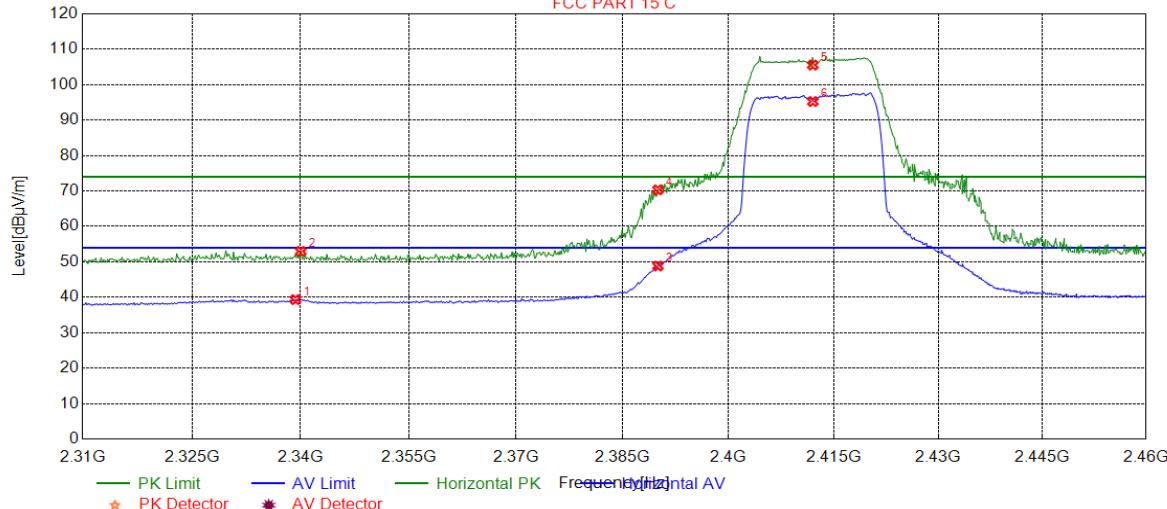
Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	90.32	1.46	74.00	-16.32	150	67	Vertical
2	2462.000	80.23	1.46	54.00	-26.23	150	25	Vertical
3	2483.500	49.52	1.52	74.00	24.48	150	36	Vertical
4	2483.500	35.87	1.52	54.00	18.13	150	33	Vertical
5	2485.792	52.99	1.53	74.00	21.01	150	71	Vertical
6	2495.547	35.09	1.56	54.00	18.91	150	186	Vertical

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**4.10.1.11 802.11N20\_Lowest Channel\_Horizontal**

FCC PART 15 C

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2339.279	39.35	1.02	54.00	14.65	150	292	Horizontal
2	2340.030	52.95	1.03	74.00	21.05	150	317	Horizontal
3	2390.000	48.82	1.25	54.00	5.18	150	307	Horizontal
4	2390.000	70.32	1.25	74.00	3.68	150	307	Horizontal
5	2412.000	105.55	1.32	74.00	-31.55	150	310	Horizontal
6	2412.000	95.25	1.32	54.00	-41.25	150	310	Horizontal

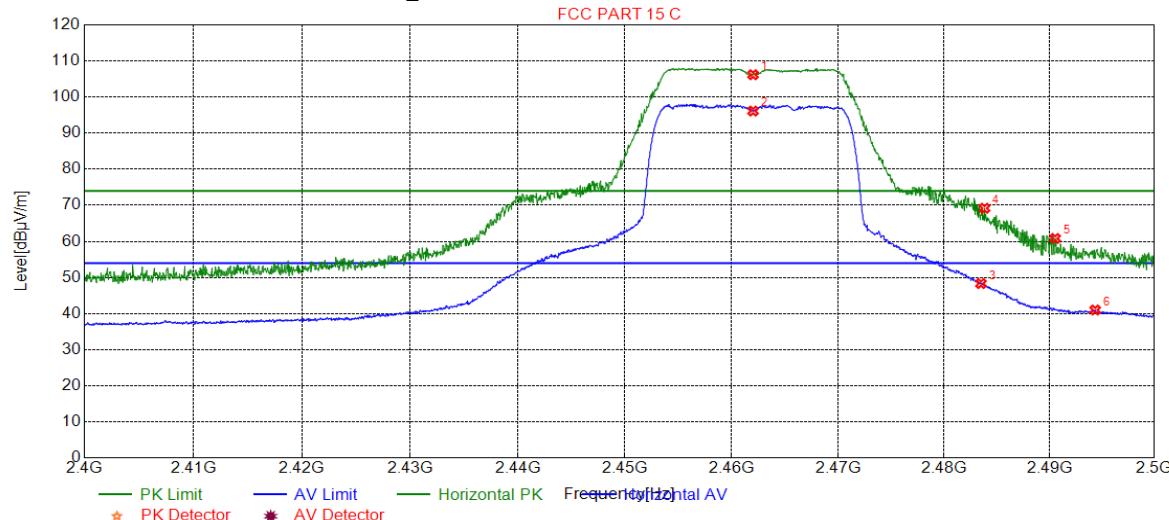
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**4.10.1.12 802.11N20\_Highest Channel\_Horizontal****Suspected List**

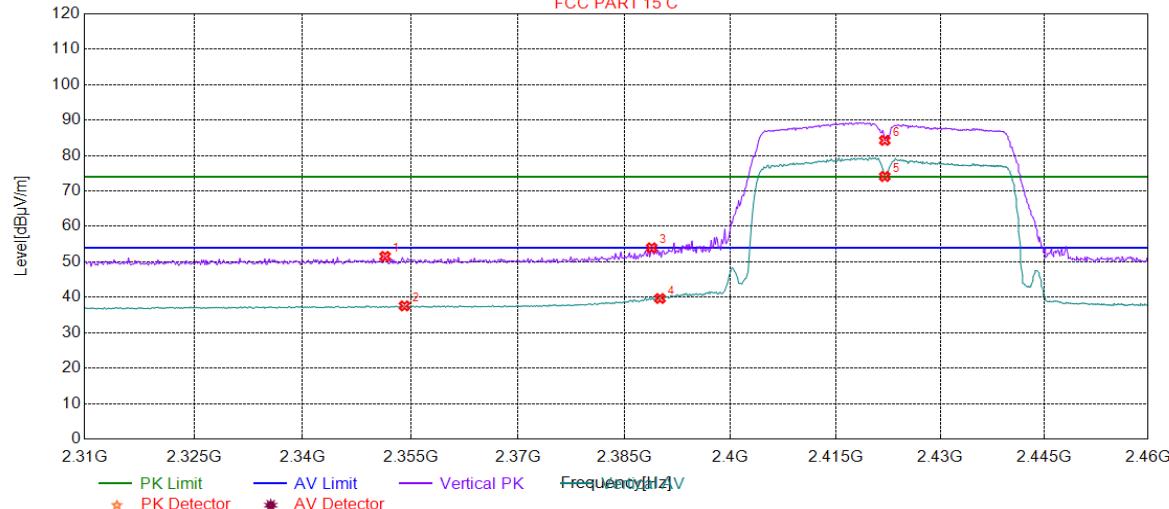
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	106.18	1.46	74.00	-32.18	150	304	Horizontal
2	2462.000	96.10	1.46	54.00	-42.10	150	304	Horizontal
3	2483.500	48.32	1.52	54.00	5.68	150	304	Horizontal
4	2483.841	69.18	1.52	74.00	4.82	150	308	Horizontal
5	2490.545	60.82	1.54	74.00	13.18	150	327	Horizontal
6	2494.347	40.99	1.55	54.00	13.01	150	316	Horizontal

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**4.10.1.13 802.11N40\_Lowest Channel\_Verical**

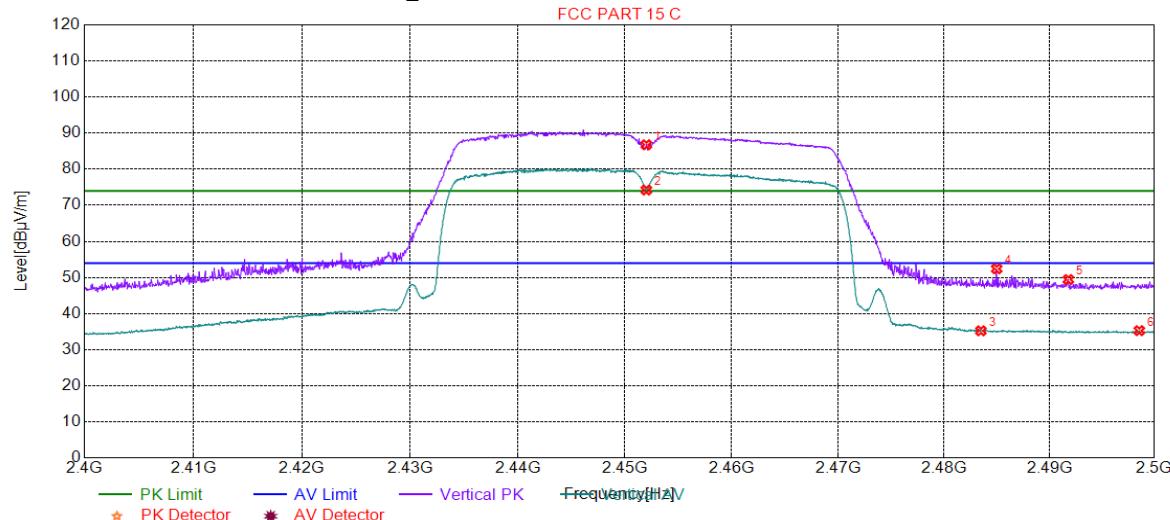
FCC PART 15 C

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2351.441	51.54	1.08	74.00	22.46	150	22	Vertical
2	2354.144	37.57	1.09	54.00	16.43	150	262	Vertical
3	2388.828	53.97	1.24	74.00	20.03	150	65	Vertical
4	2390.000	39.66	1.25	54.00	14.34	150	301	Vertical
5	2422.000	74.10	1.35	54.00	-20.10	150	295	Vertical
6	2422.000	84.28	1.35	74.00	-10.28	150	298	Vertical

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**4.10.1.14 802.11N40\_Highest Channel\_Verical****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	86.77	1.44	74.00	-12.77	150	19	Vertical
2	2452.000	74.23	1.44	54.00	-20.23	150	19	Vertical
3	2483.500	35.23	1.52	54.00	18.77	150	23	Vertical
4	2484.992	52.40	1.53	74.00	21.60	150	148	Vertical
5	2491.795	49.43	1.55	74.00	24.57	150	46	Vertical
6	2498.549	35.27	1.57	54.00	18.73	150	49	Vertical

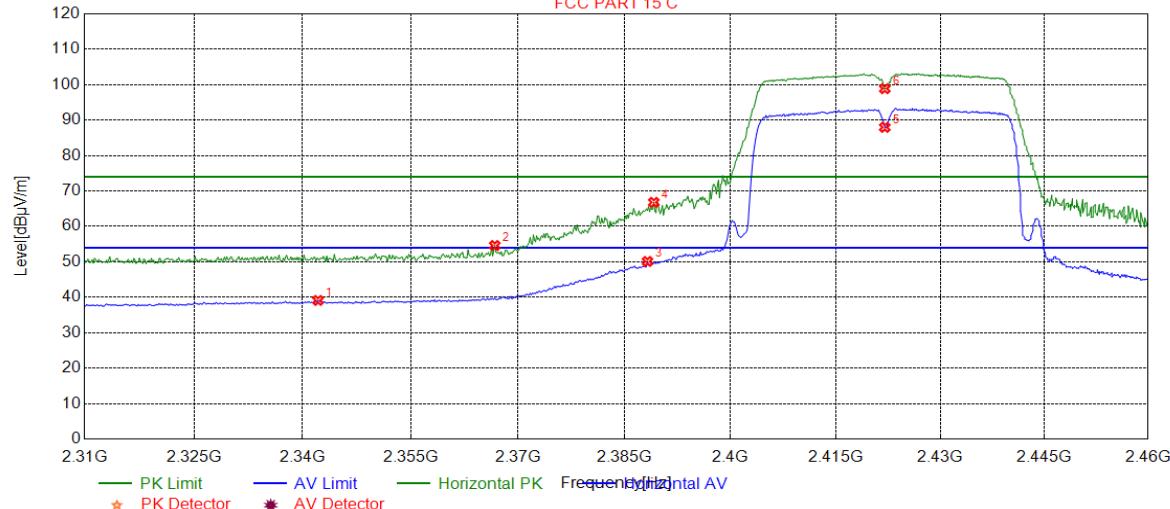
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**4.10.1.15 802.11N40\_Lowest Channel\_Horizontal**

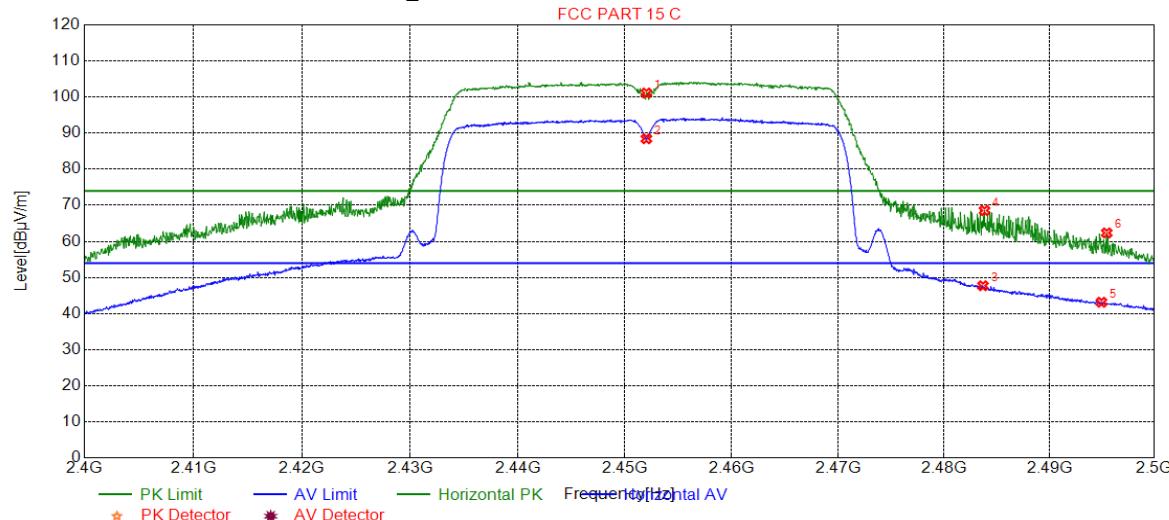
FCC PART 15 C

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2342.132	39.12	1.04	54.00	14.88	150	298	Horizontal
2	2366.756	54.61	1.14	74.00	19.39	150	289	Horizontal
3	2388.228	50.12	1.24	54.00	3.88	150	310	Horizontal
4	2389.129	66.80	1.24	74.00	7.20	150	304	Horizontal
5	2422.000	87.96	1.35	54.00	-33.96	150	310	Horizontal
6	2422.000	98.87	1.35	74.00	-24.87	150	316	Horizontal

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**4.10.1.16 802.11N40\_Highest Channel\_Horizontal****Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	101.11	1.44	74.00	-27.11	150	312	Horizontal
2	2452.000	88.44	1.44	54.00	-34.44	150	309	Horizontal
3	2483.691	47.71	1.52	54.00	6.29	150	312	Horizontal
4	2483.841	68.54	1.52	74.00	5.46	150	316	Horizontal
5	2494.947	43.14	1.56	54.00	10.86	150	309	Horizontal
6	2495.447	62.35	1.56	74.00	11.65	150	312	Horizontal

**Remark:**

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

All Modes have been tested, but only the worst case data displayed in this report.

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## 5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB (9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%

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## 6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2018/4/2	2019/4/1
				2019/4/1	2020/3/31
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2018/9/15	2019/9/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/13	2019/7/12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2

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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2018/7/12	2019/7/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/3/12	2020/3/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/27	2019/9/27
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019/3/2	2020/3/1

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2019/3/12	2020/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018/7/12	2019/7/11

## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for ZR/2019/30015.

The End

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