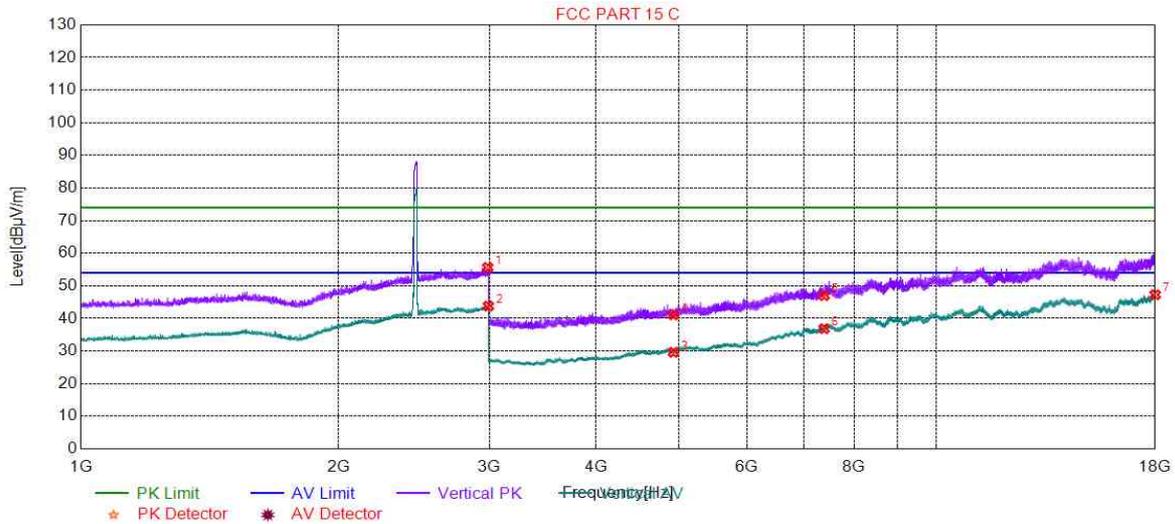


**2.9.2.23 802.11N20\_ CH11\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2987.49	55.64	9.51	74.00	18.36	150	67	Vertical
2	2992.99	43.81	9.48	54.00	10.19	150	67	Vertical
3	4924.00	29.63	-17.72	54.00	24.37	150	101	Vertical
4	4924.00	41.12	-17.72	74.00	32.88	150	18	Vertical
5	7386.00	47.04	-9.55	74.00	26.96	150	136	Vertical
6	7386.00	36.88	-9.55	54.00	17.12	150	342	Vertical
7	17995.5	47.28	0.72	54.00	6.72	150	34	Vertical

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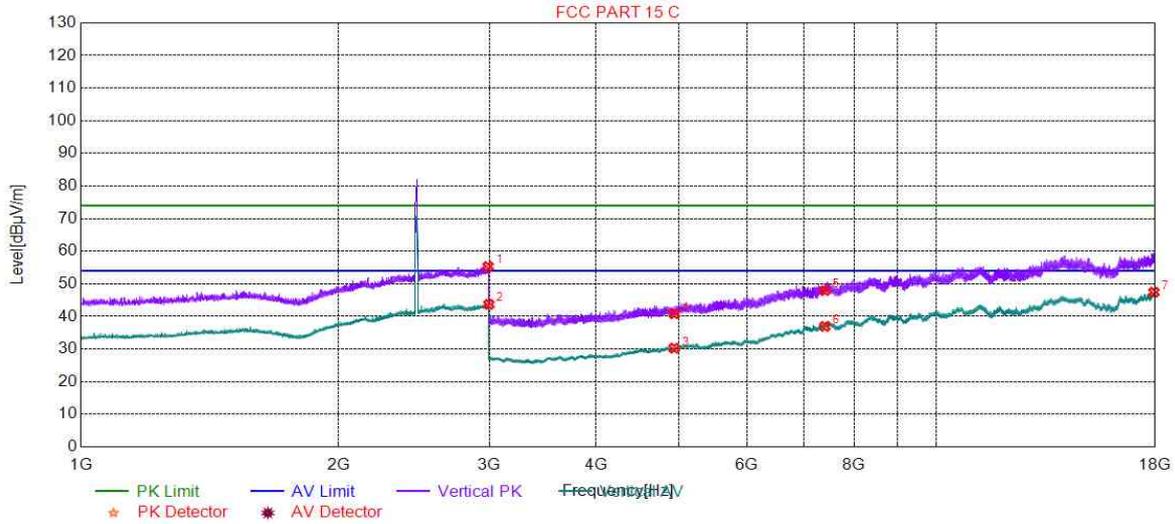
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**2.9.2.24 802.11N20\_ CH12\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2990.99	55.32	9.49	74.00	18.68	150	121	Vertical
2	2996.99	43.71	9.46	54.00	10.29	150	328	Vertical
3	4934.00	30.29	-17.65	54.00	23.71	150	349	Vertical
4	4934.00	40.84	-17.65	74.00	33.16	150	211	Vertical
5	7401.00	47.92	-9.50	74.00	26.08	150	242	Vertical
6	7401.00	36.95	-9.50	54.00	17.05	150	0	Vertical
7	17932.3	47.43	0.70	54.00	6.57	150	141	Vertical

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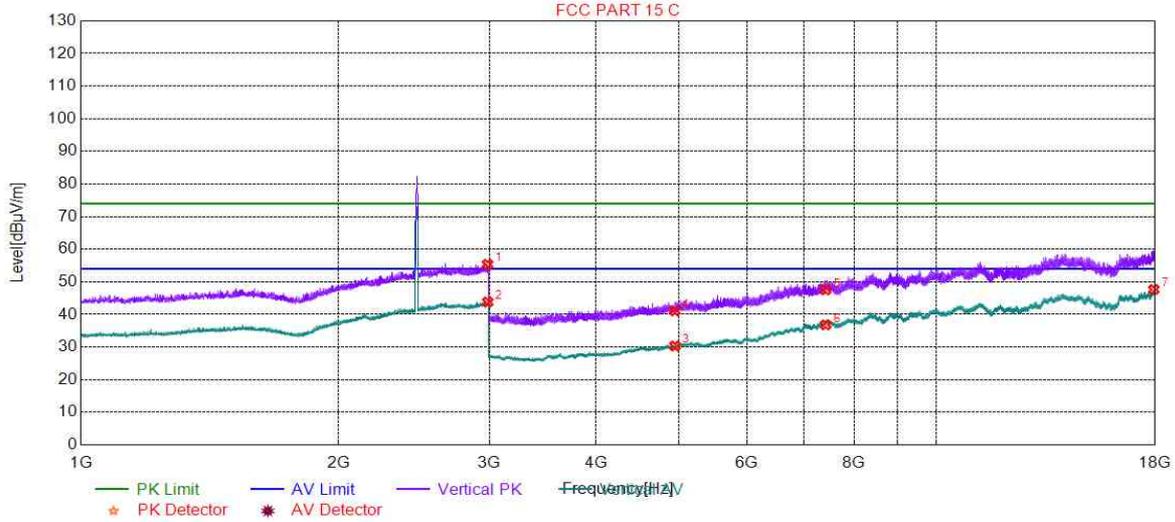
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**2.9.2.25 802.11N20\_ CH13\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2986.49	55.38	9.51	74.00	18.62	150	82	Vertical
2	2987.99	43.81	9.51	54.00	10.19	150	233	Vertical
3	4944.00	30.34	-17.58	54.00	23.66	150	265	Vertical
4	4944.00	41.12	-17.58	74.00	32.88	150	360	Vertical
5	7416.00	47.54	-9.44	74.00	26.46	150	40	Vertical
6	7416.00	36.83	-9.44	54.00	17.17	150	292	Vertical
7	17929.0	47.65	0.70	54.00	6.35	150	242	Vertical

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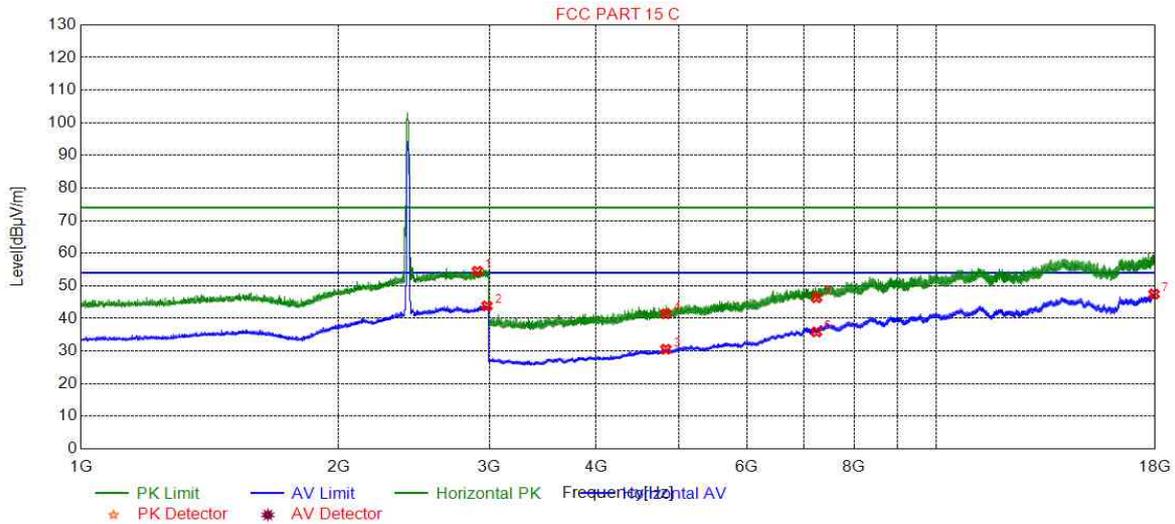
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**2.9.2.26 802.11N20\_ CH1\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2905.47	54.49	9.20	74.00	19.51	150	319	Horizontal
2	2981.49	43.84	9.54	54.00	10.16	150	251	Horizontal
3	4824.00	30.56	-18.21	54.00	23.44	150	101	Horizontal
4	4824.00	41.41	-18.21	74.00	32.59	150	74	Horizontal
5	7236.00	46.38	-9.99	74.00	27.62	150	342	Horizontal
6	7236.00	35.88	-9.99	54.00	18.12	150	243	Horizontal
7	17942.2	47.48	0.70	54.00	6.52	150	342	Horizontal

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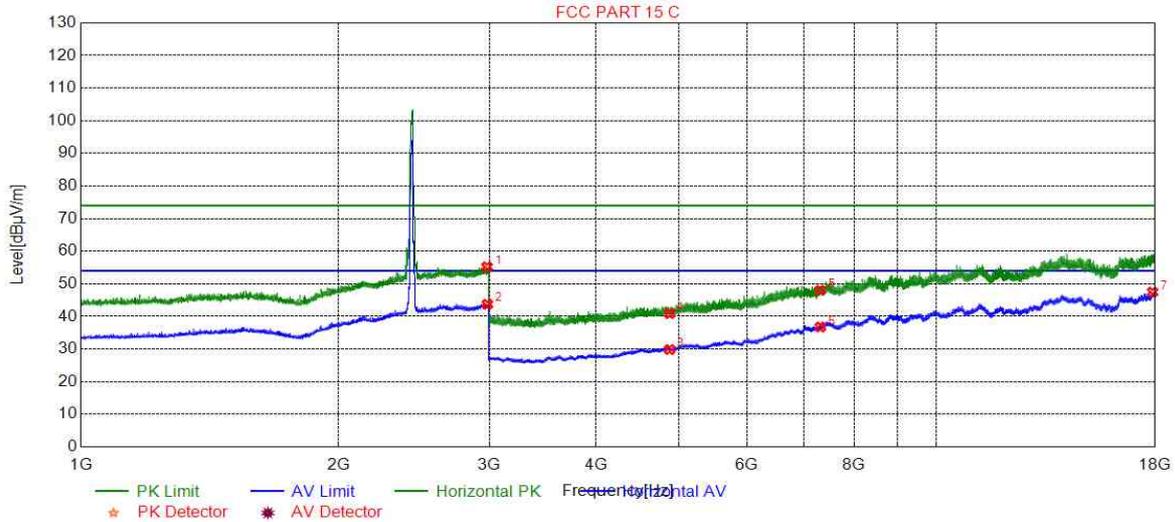
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**2.9.2.27 802.11N20\_ CH6\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2981.99	55.22	9.53	74.00	18.78	150	128	Horizontal
2	2984.99	43.76	9.52	54.00	10.24	150	32	Horizontal
3	4874.00	29.87	-17.99	54.00	24.13	150	212	Horizontal
4	4874.00	40.88	-17.99	74.00	33.12	150	103	Horizontal
5	7311.00	48.03	-9.74	74.00	25.97	150	186	Horizontal
6	7311.00	36.78	-9.74	54.00	17.22	150	342	Horizontal
7	17871.8	47.48	0.32	54.00	6.52	150	186	Horizontal

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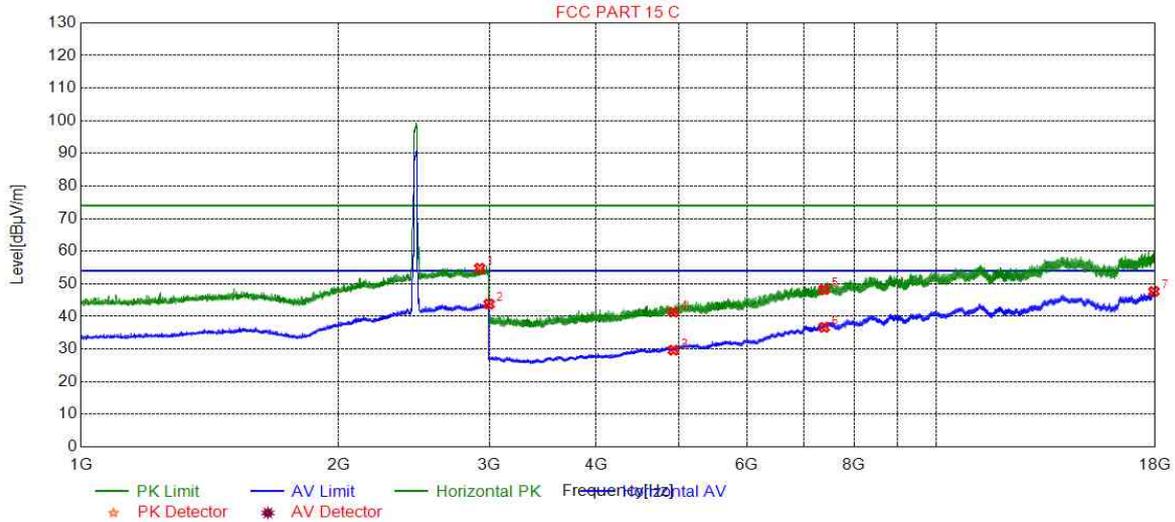
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**2.9.2.28 802.11N20\_ CH11\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2922.98	54.82	9.39	74.00	19.18	150	128	Horizontal
2	2997.99	43.81	9.46	54.00	10.19	150	320	Horizontal
3	4924.00	29.67	-17.72	54.00	24.33	150	74	Horizontal
4	4924.00	41.33	-17.72	74.00	32.67	150	266	Horizontal
5	7386.00	48.24	-9.55	74.00	25.76	150	241	Horizontal
6	7386.00	36.65	-9.55	54.00	17.35	150	0	Horizontal
7	17933.4	47.68	0.70	54.00	6.32	150	241	Horizontal

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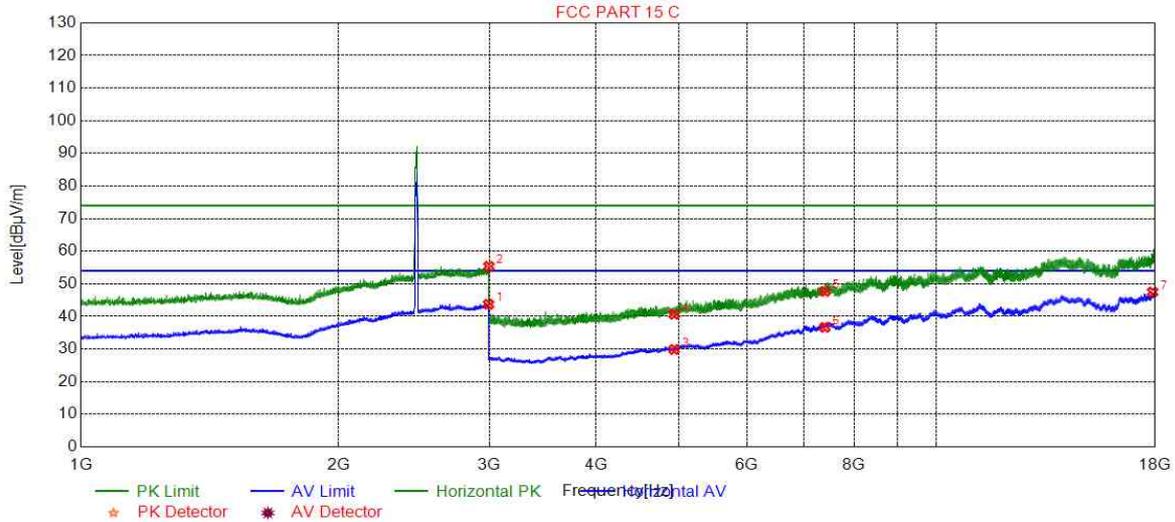
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**2.9.2.29 802.11N20\_ CH12\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2994.49	43.74	9.48	54.00	10.26	150	169	Horizontal
2	2996.99	55.36	9.46	74.00	18.64	150	141	Horizontal
3	4934.00	29.90	-17.65	54.00	24.10	150	322	Horizontal
4	4934.00	40.67	-17.65	74.00	33.33	150	294	Horizontal
5	7401.00	47.69	-9.50	74.00	26.31	150	293	Horizontal
6	7401.00	36.67	-9.50	54.00	17.33	150	92	Horizontal
7	17872.3	47.50	0.33	54.00	6.50	150	342	Horizontal

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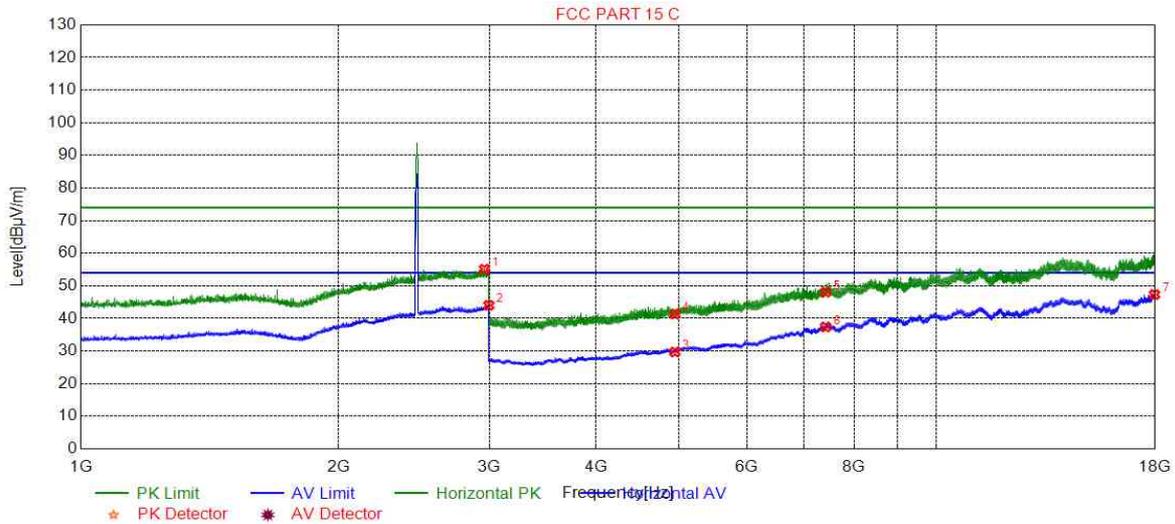
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**2.9.2.30 802.11N20\_ CH13\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2961.49	55.13	9.63	74.00	18.87	150	58	Horizontal
2	2996.49	44.04	9.47	54.00	9.96	150	86	Horizontal
3	4944.00	29.74	-17.58	54.00	24.26	150	100	Horizontal
4	4944.00	41.34	-17.58	74.00	32.66	150	264	Horizontal
5	7416.00	48.05	-9.44	74.00	25.95	150	241	Horizontal
6	7416.00	37.41	-9.44	54.00	16.59	150	342	Horizontal
7	17965.3	47.34	0.71	54.00	6.66	150	90	Horizontal

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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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## 2.10 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
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

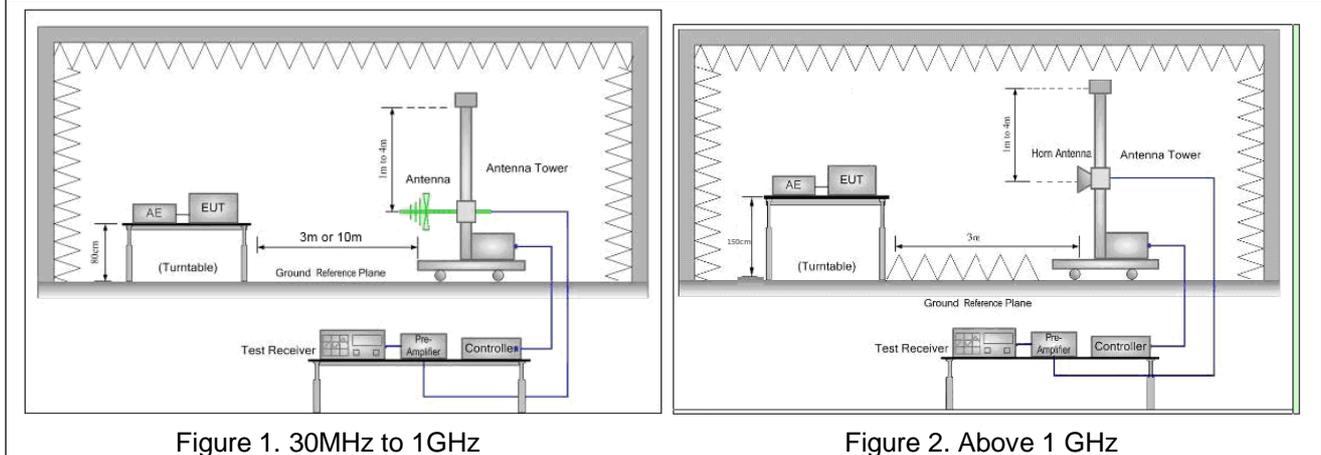


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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<p>Test Procedure:</p>	<ol 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> <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 rotating 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> </ol>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>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.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

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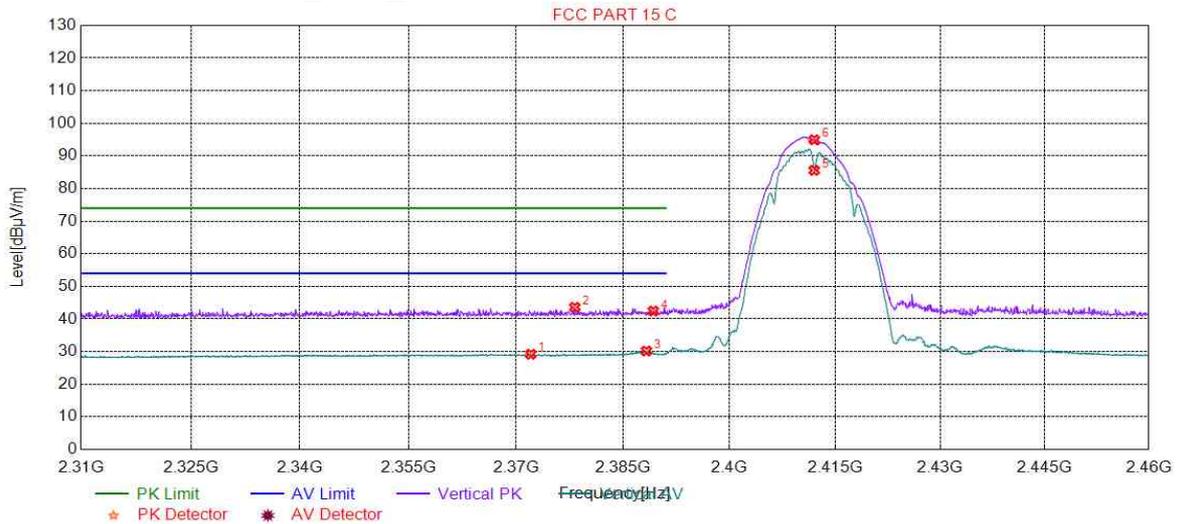
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Test plot as follows

### 2.10.1 Test plots

#### 2.10.1.1 802.11B\_CH1\_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.05	29.21	7.79	54.00	24.79	150	206	Vertical
2	2378.20	43.62	7.78	74.00	30.38	150	323	Vertical
3	2388.26	30.20	7.77	54.00	23.80	150	14	Vertical
4	2389.23	42.45	7.77	74.00	31.55	150	339	Vertical
5	2412.00	85.59	7.81	0.00	-85.59	150	14	Vertical
6	2412.00	94.97	7.81	0.00	-94.97	150	14	Vertical

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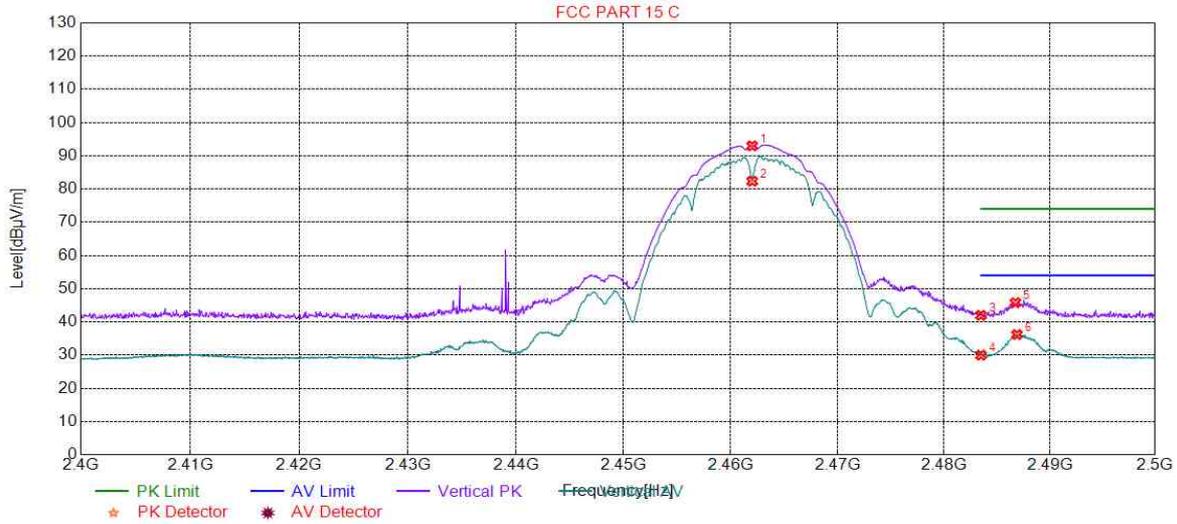
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**2.10.1.2 802.11B\_ CH11\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	93.01	7.98	0.00	-93.01	150	157	Vertical
2	2462.00	82.35	7.98	0.00	-82.35	150	19	Vertical
3	2483.50	42.00	8.01	74.00	32.00	150	151	Vertical
4	2483.50	30.01	8.01	54.00	23.99	150	157	Vertical
5	2486.74	45.80	8.01	74.00	28.20	150	162	Vertical
6	2486.89	36.21	8.01	54.00	17.79	150	162	Vertical

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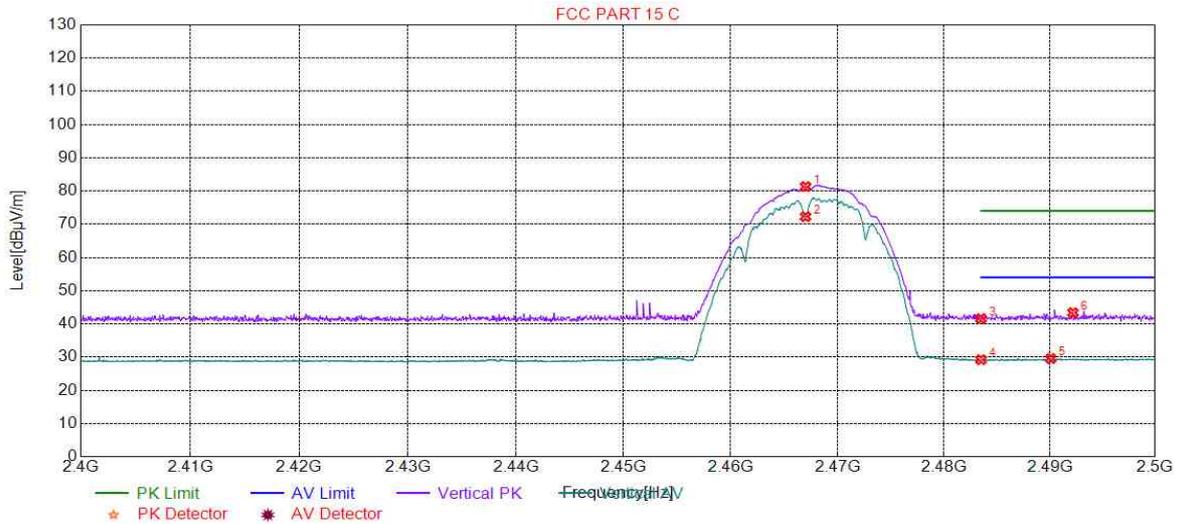
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**2.10.1.3 802.11B\_ CH12\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	81.34	7.99	0.00	-81.34	150	333	Vertical
2	2467.00	72.29	7.99	0.00	-72.29	150	333	Vertical
3	2483.50	41.60	8.01	74.00	32.40	150	272	Vertical
4	2483.50	29.26	8.01	54.00	24.74	150	162	Vertical
5	2490.09	29.59	8.02	54.00	24.41	150	288	Vertical
6	2492.19	43.38	8.02	74.00	30.62	150	69	Vertical

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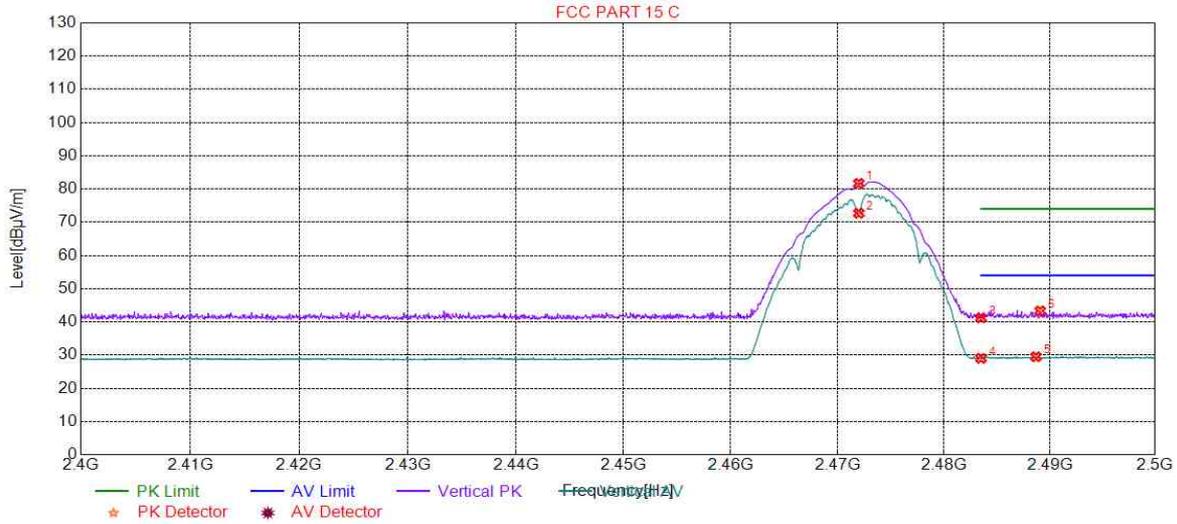
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**2.10.1.4 802.11B\_ CH13\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	81.70	8.00	0.00	-81.70	150	334	Vertical
2	2472.00	72.72	8.00	0.00	-72.72	150	334	Vertical
3	2483.50	41.26	8.01	74.00	32.74	150	355	Vertical
4	2483.50	29.05	8.01	54.00	24.95	150	201	Vertical
5	2488.69	29.54	8.02	54.00	24.46	150	284	Vertical
6	2489.09	43.32	8.02	74.00	30.68	150	311	Vertical

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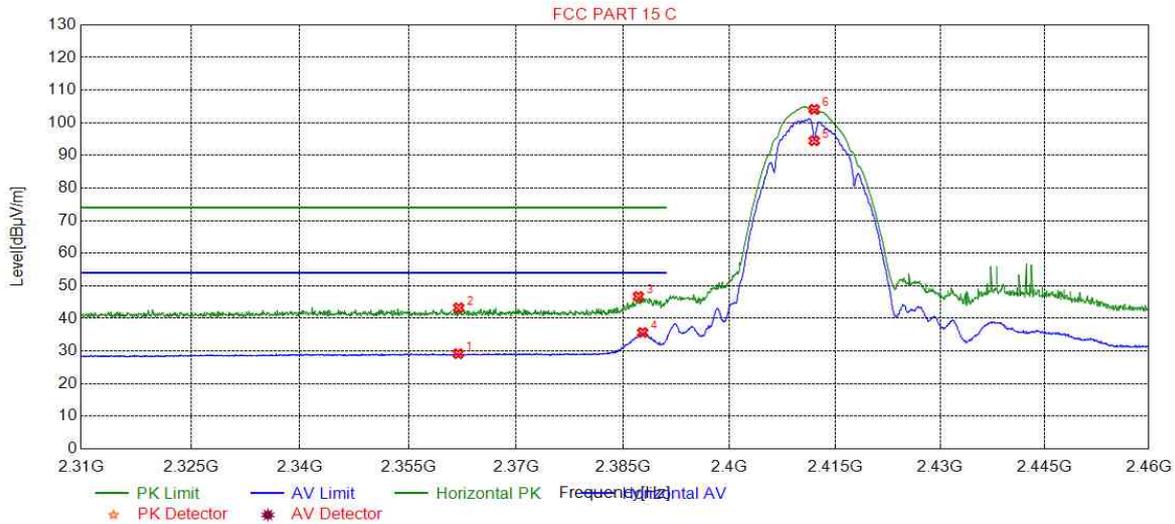
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**2.10.1.5 802.11B\_ CH1\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.92	29.20	7.80	54.00	24.80	150	37	Horizontal
2	2362.00	43.28	7.80	74.00	30.72	150	108	Horizontal
3	2387.13	46.75	7.77	74.00	27.25	150	209	Horizontal
4	2387.73	35.69	7.77	54.00	18.31	150	209	Horizontal
5	2412.00	94.48	7.81	0.00	-94.48	150	215	Horizontal
6	2412.00	104.12	7.81	0.00	-104.12	150	209	Horizontal

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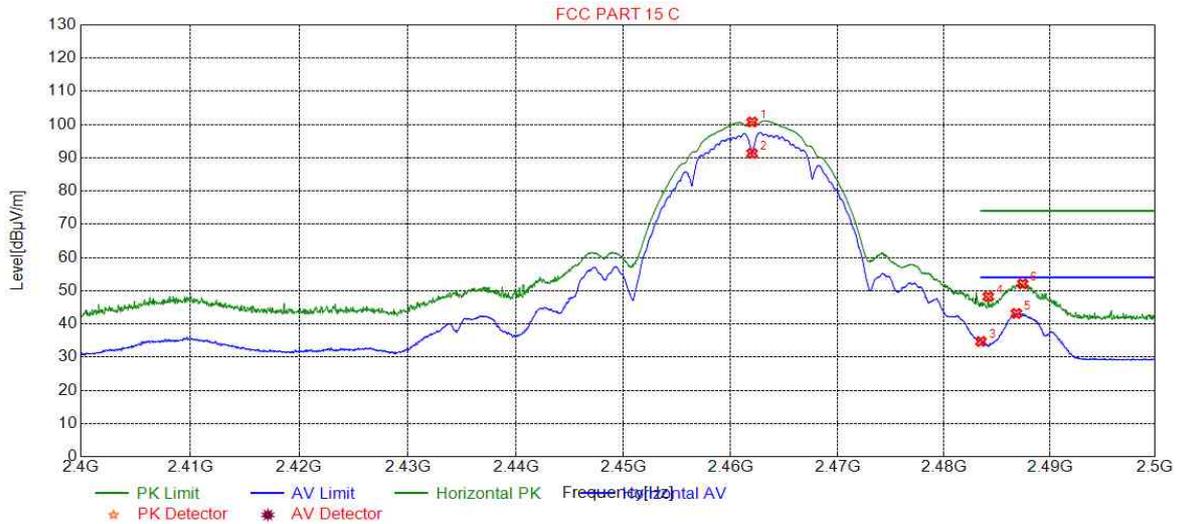
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**2.10.1.6 802.11B\_ CH11\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	100.78	7.98	0.00	-100.78	150	210	Horizontal
2	2462.00	91.33	7.98	0.00	-91.33	150	210	Horizontal
3	2483.50	34.73	8.01	54.00	19.27	150	204	Horizontal
4	2484.19	48.24	8.01	74.00	25.76	150	204	Horizontal
5	2486.84	43.16	8.01	54.00	10.84	150	204	Horizontal
6	2487.44	52.06	8.01	74.00	21.94	150	210	Horizontal

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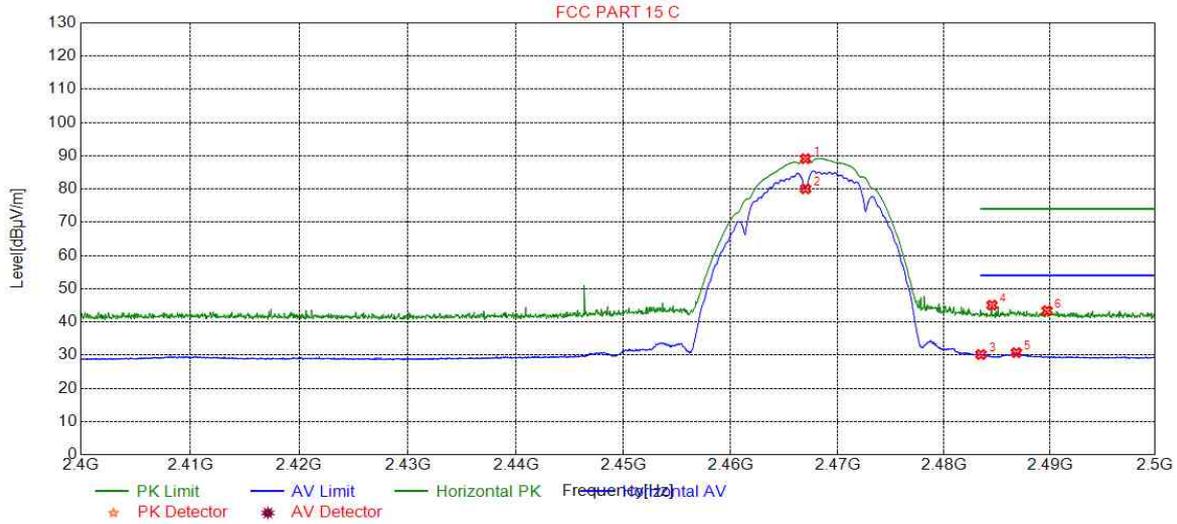
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**2.10.1.7 802.11B\_ CH12\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	89.13	7.99	0.00	-89.13	150	210	Horizontal
2	2467.00	80.07	7.99	0.00	-80.07	150	215	Horizontal
3	2483.50	30.18	8.01	54.00	23.82	150	215	Horizontal
4	2484.54	45.07	8.01	74.00	28.93	150	287	Horizontal
5	2486.84	30.76	8.01	54.00	23.24	150	210	Horizontal
6	2489.74	43.38	8.02	74.00	30.62	150	237	Horizontal

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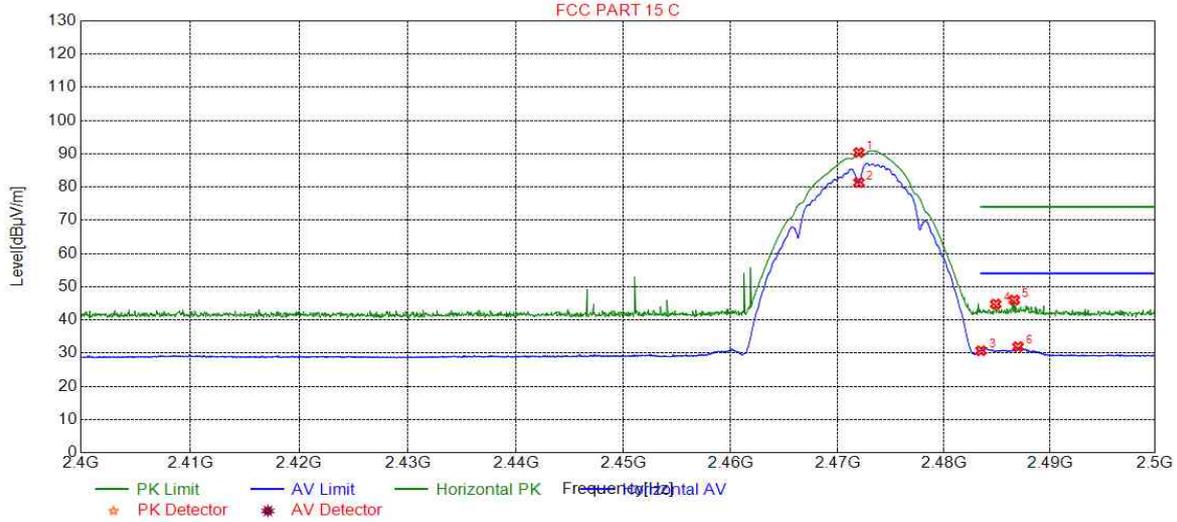
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**2.10.1.8 802.11B\_ CH13\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	90.37	8.00	0.00	-90.37	150	210	Horizontal
2	2472.00	81.36	8.00	0.00	-81.36	150	210	Horizontal
3	2483.50	30.72	8.01	54.00	23.28	150	205	Horizontal
4	2484.89	44.77	8.01	74.00	29.23	150	341	Horizontal
5	2486.64	46.01	8.01	74.00	27.99	150	188	Horizontal
6	2486.99	31.92	8.01	54.00	22.08	150	210	Horizontal

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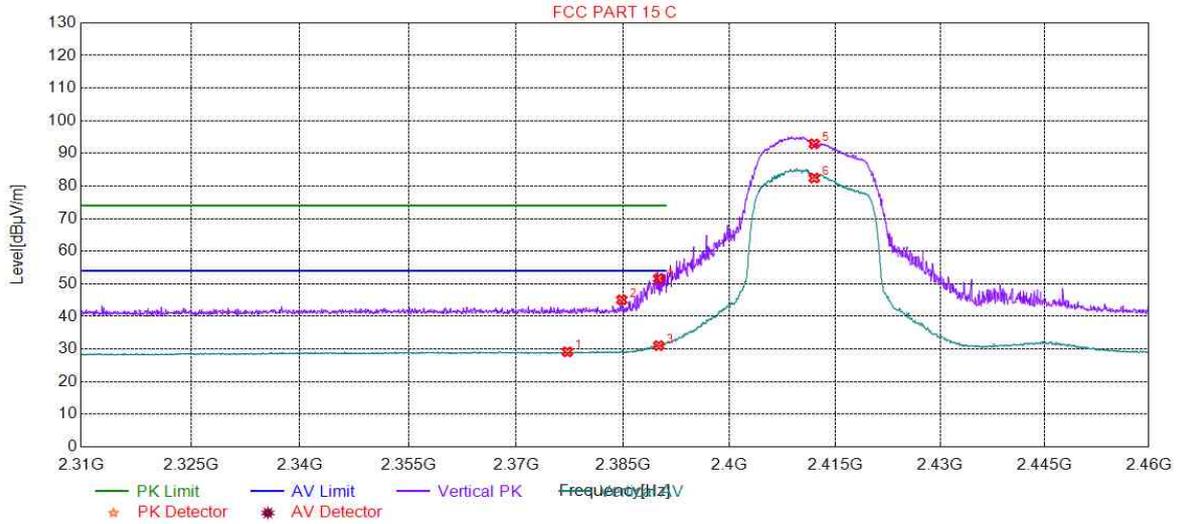
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**2.10.1.9 802.11G\_CH1\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.15	29.15	7.78	54.00	24.85	150	356	Vertical
2	2384.81	45.10	7.78	74.00	28.90	150	46	Vertical
3	2390.00	31.08	7.77	54.00	22.92	150	158	Vertical
4	2390.00	51.63	7.77	74.00	22.37	150	46	Vertical
5	2412.00	92.92	7.81	0.00	-92.92	150	158	Vertical
6	2412.00	82.44	7.81	0.00	-82.44	150	40	Vertical

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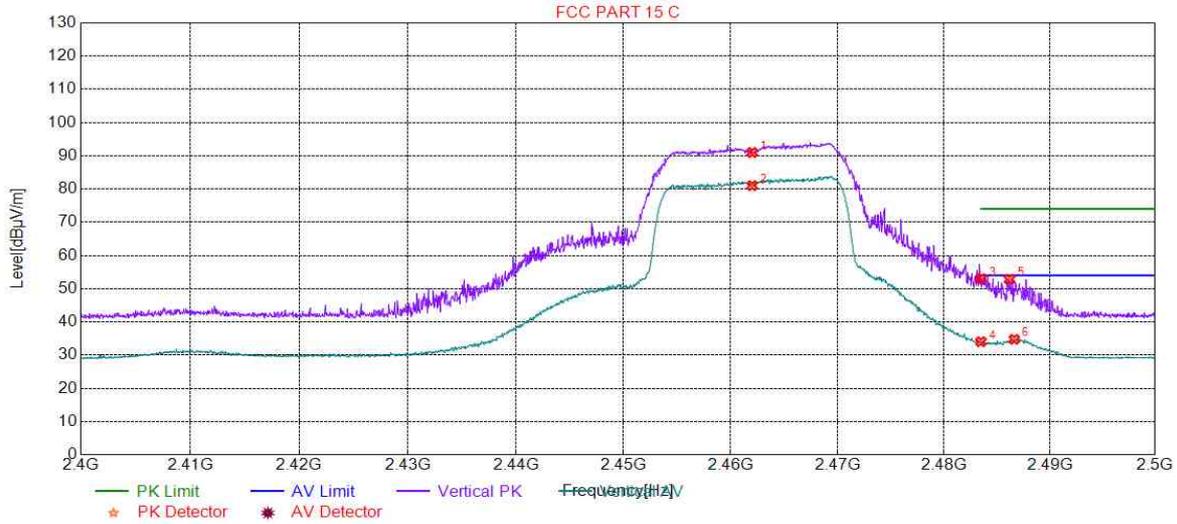
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**2.10.1.10 802.11G\_CH11\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	91.00	7.98	0.00	-91.00	150	338	Vertical
2	2462.00	81.03	7.98	0.00	-81.03	150	338	Vertical
3	2483.50	53.04	8.01	74.00	20.96	150	194	Vertical
4	2483.50	34.05	8.01	54.00	19.95	150	338	Vertical
5	2486.19	52.83	8.01	74.00	21.17	150	343	Vertical
6	2486.64	34.77	8.01	54.00	19.23	150	338	Vertical

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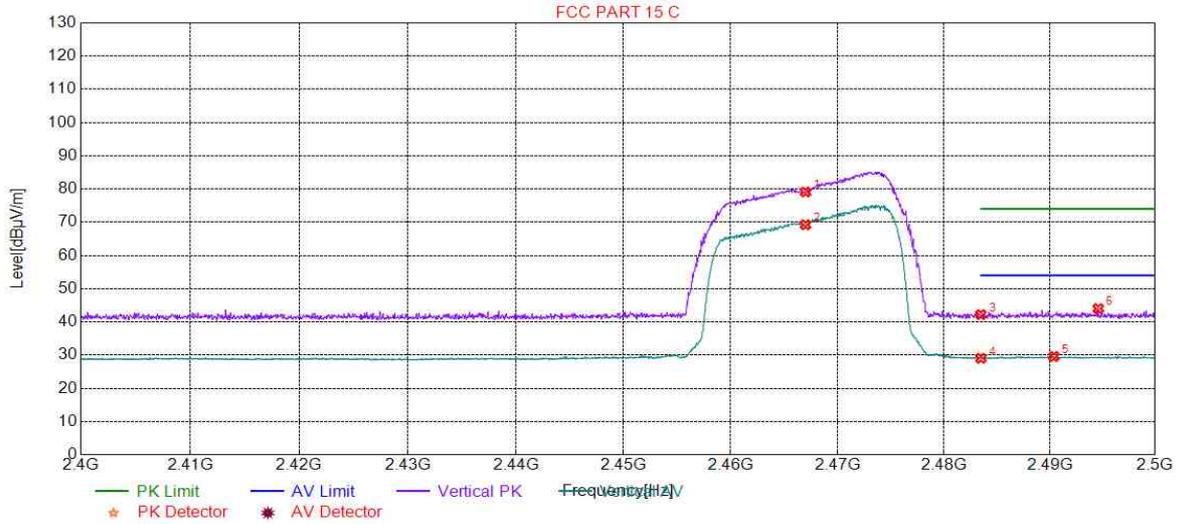
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**2.10.1.11 802.11G\_CH12\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	79.11	7.99	0.00	-79.11	150	341	Vertical
2	2467.00	69.25	7.99	0.00	-69.25	150	341	Vertical
3	2483.50	42.22	8.01	74.00	31.78	150	281	Vertical
4	2483.50	29.08	8.01	54.00	24.92	150	276	Vertical
5	2490.39	29.62	8.02	54.00	24.38	150	73	Vertical
6	2494.59	44.03	8.02	74.00	29.97	150	308	Vertical

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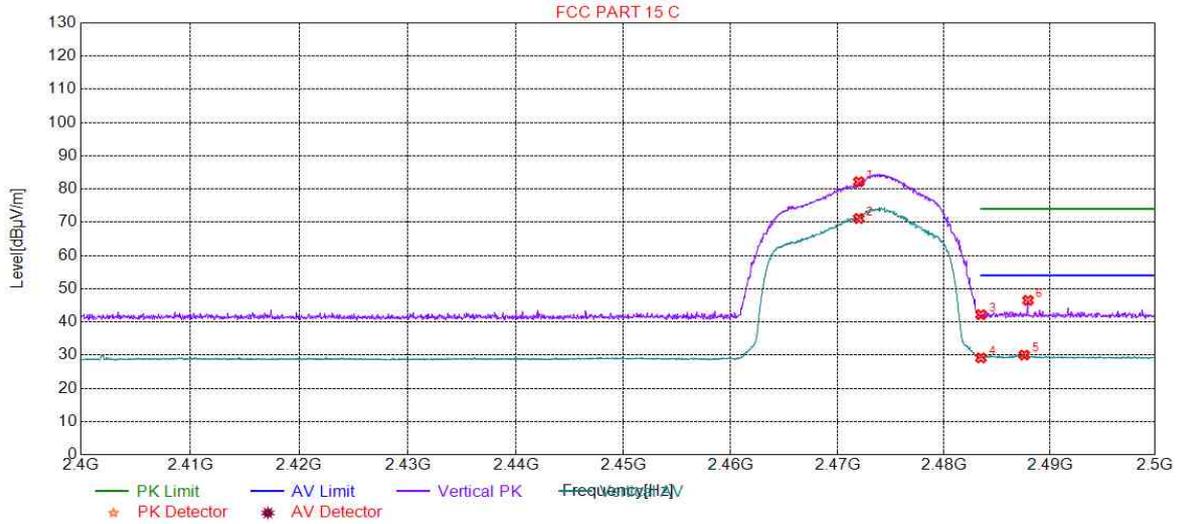
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**2.10.1.12 802.11G\_CH13\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	82.18	8.00	0.00	-82.18	150	340	Vertical
2	2472.00	71.15	8.00	0.00	-71.15	150	340	Vertical
3	2483.50	42.19	8.01	74.00	31.81	150	360	Vertical
4	2483.50	29.20	8.01	54.00	24.80	150	340	Vertical
5	2487.59	30.03	8.02	54.00	23.97	150	14	Vertical
6	2487.94	46.50	8.02	74.00	27.50	150	166	Vertical

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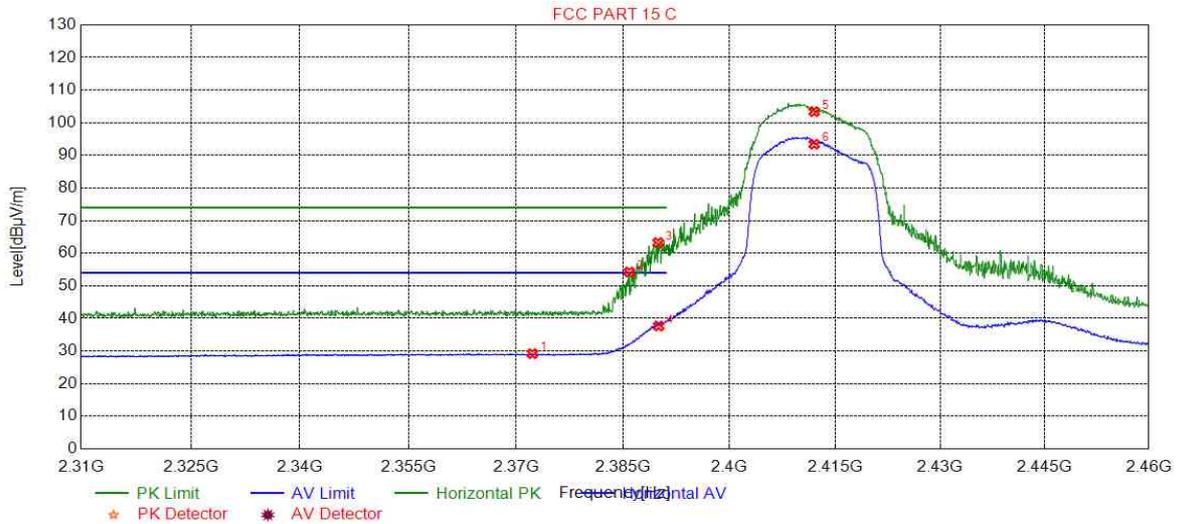
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**2.10.1.13 802.11G\_CH1\_Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.28	29.22	7.79	54.00	24.78	150	346	Horizontal
2	2385.86	54.24	7.77	74.00	19.76	150	210	Horizontal
3	2389.91	63.26	7.77	74.00	10.74	150	259	Horizontal
4	2390.00	37.70	7.77	54.00	16.30	150	216	Horizontal
5	2412.00	103.42	7.81	0.00	-103.42	150	210	Horizontal
6	2412.00	93.45	7.81	0.00	-93.45	150	205	Horizontal

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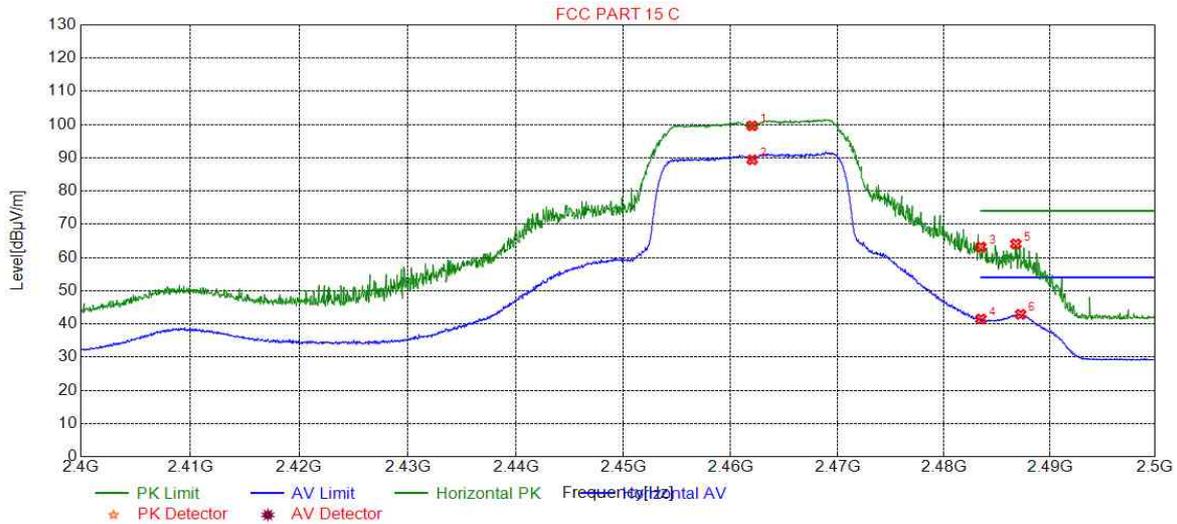
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**2.10.1.14 802.11G\_ CH11\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	99.63	7.98	0.00	-99.63	150	209	Horizontal
2	2462.00	89.40	7.98	0.00	-89.40	150	209	Horizontal
3	2483.50	63.17	8.01	74.00	10.83	150	264	Horizontal
4	2483.50	41.50	8.01	54.00	12.50	150	209	Horizontal
5	2486.79	64.09	8.01	74.00	9.91	150	209	Horizontal
6	2487.24	42.88	8.01	54.00	11.12	150	209	Horizontal

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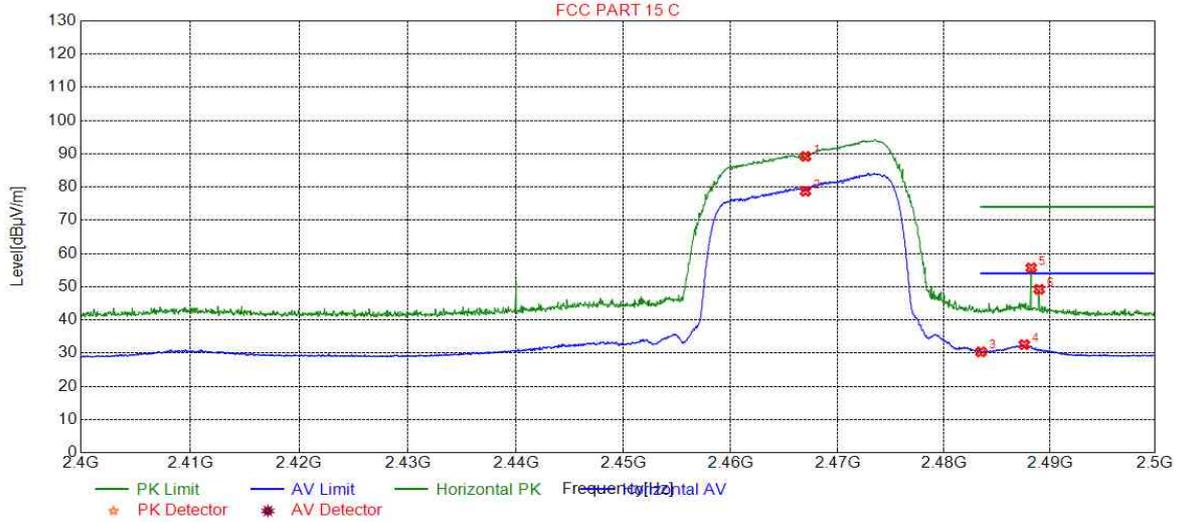
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**2.10.1.15 802.11G\_CH12\_Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	89.22	7.99	0.00	-89.22	150	216	Horizontal
2	2467.00	78.73	7.99	0.00	-78.73	150	205	Horizontal
3	2483.50	30.40	8.01	54.00	23.60	150	346	Horizontal
4	2487.59	32.56	8.02	54.00	21.44	150	210	Horizontal
5	2488.24	55.67	8.02	74.00	18.33	150	313	Horizontal
6	2488.99	49.22	8.02	74.00	24.78	150	313	Horizontal

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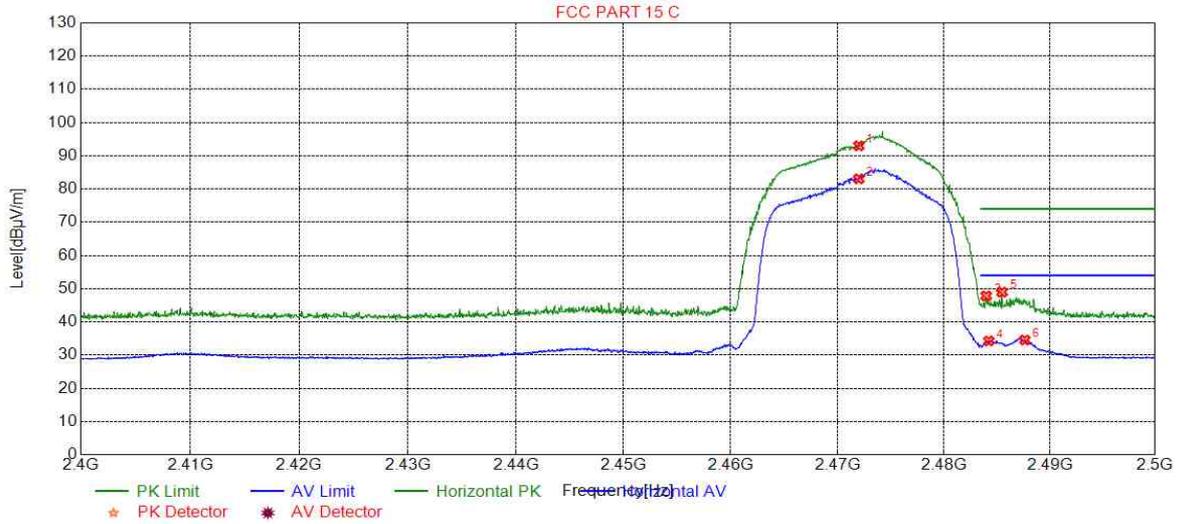
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**2.10.1.16 802.11G\_CH13\_Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	93.00	8.00	0.00	-93.00	150	209	Horizontal
2	2472.00	83.07	8.00	0.00	-83.07	150	209	Horizontal
3	2483.99	47.84	8.01	74.00	26.16	150	209	Horizontal
4	2484.24	34.29	8.01	54.00	19.71	150	215	Horizontal
5	2485.49	48.98	8.01	74.00	25.02	150	204	Horizontal
6	2487.64	34.56	8.02	54.00	19.44	150	209	Horizontal

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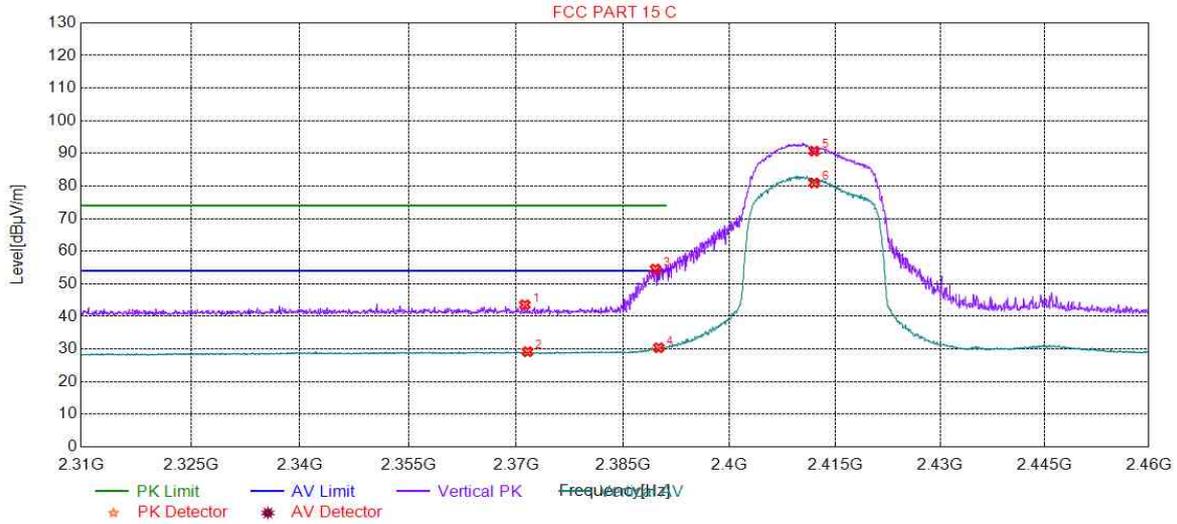
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**2.10.1.17 802.11N20\_ CH1\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.23	43.57	7.79	74.00	30.43	150	317	Vertical
2	2371.60	29.19	7.79	54.00	24.81	150	228	Vertical
3	2389.53	54.55	7.77	74.00	19.45	150	96	Vertical
4	2390.00	30.42	7.77	54.00	23.58	150	96	Vertical
5	2412.00	90.69	7.81	0.00	-90.69	150	62	Vertical
6	2412.00	80.95	7.81	0.00	-80.95	150	57	Vertical

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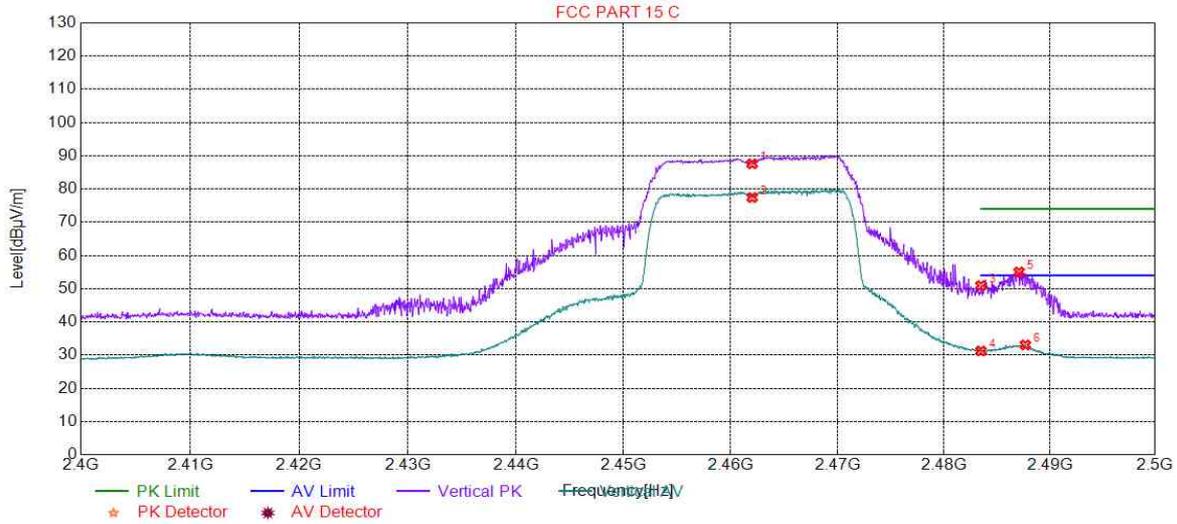
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**2.10.1.18 802.11N20\_ CH11\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	87.59	7.98	0.00	-87.59	150	350	Vertical
2	2462.00	77.43	7.98	0.00	-77.43	150	64	Vertical
3	2483.50	50.95	8.01	74.00	23.05	150	252	Vertical
4	2483.50	31.27	8.01	54.00	22.73	150	154	Vertical
5	2487.09	55.05	8.01	74.00	18.95	150	350	Vertical
6	2487.69	33.07	8.02	54.00	20.93	150	344	Vertical

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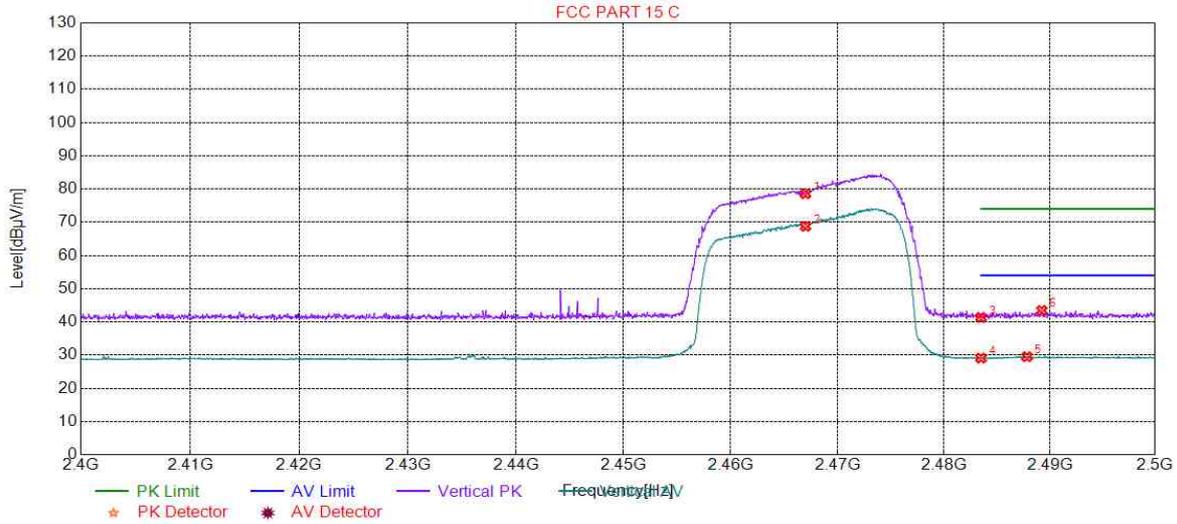
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**2.10.1.19 802.11N20\_ CH12\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	78.57	7.99	0.00	-78.57	150	251	Vertical
2	2467.00	68.77	7.99	0.00	-68.77	150	251	Vertical
3	2483.50	41.36	8.01	74.00	32.64	150	19	Vertical
4	2483.50	29.14	8.01	54.00	24.86	150	184	Vertical
5	2487.84	29.54	8.02	54.00	24.46	150	245	Vertical
6	2489.24	43.45	8.02	74.00	30.55	150	63	Vertical

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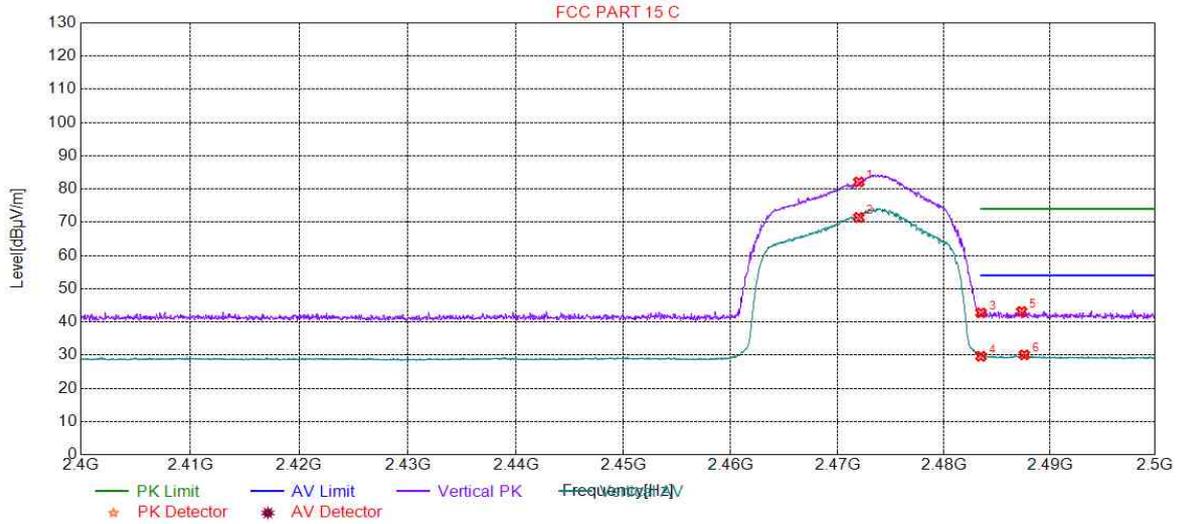
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Xi'an, Shaanxi, China

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邮编 710086 sgs.china@sgs.com

**2.10.1.20 802.11N20\_ CH13\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	82.12	8.00	0.00	-82.12	150	257	Vertical
2	2472.00	71.46	8.00	0.00	-71.46	150	248	Vertical
3	2483.50	42.75	8.01	74.00	31.25	150	228	Vertical
4	2483.50	29.67	8.01	54.00	24.33	150	228	Vertical
5	2487.34	43.14	8.01	74.00	30.86	150	349	Vertical
6	2487.59	30.10	8.02	54.00	23.90	150	248	Vertical

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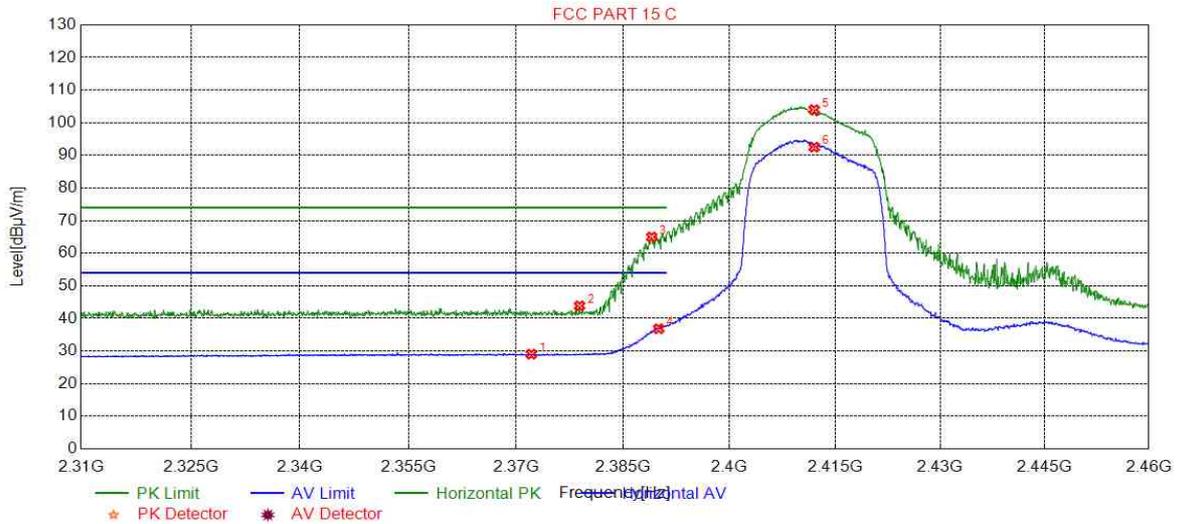
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**2.10.1.21 802.11N20\_ CH1\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.13	29.07	7.79	54.00	24.93	150	319	Horizontal
2	2378.88	43.87	7.78	74.00	30.13	150	269	Horizontal
3	2389.01	64.99	7.77	74.00	9.01	150	208	Horizontal
4	2390.00	36.86	7.77	54.00	17.14	150	220	Horizontal
5	2412.00	103.99	7.81	0.00	-103.99	150	214	Horizontal
6	2412.00	92.52	7.81	0.00	-92.52	150	208	Horizontal

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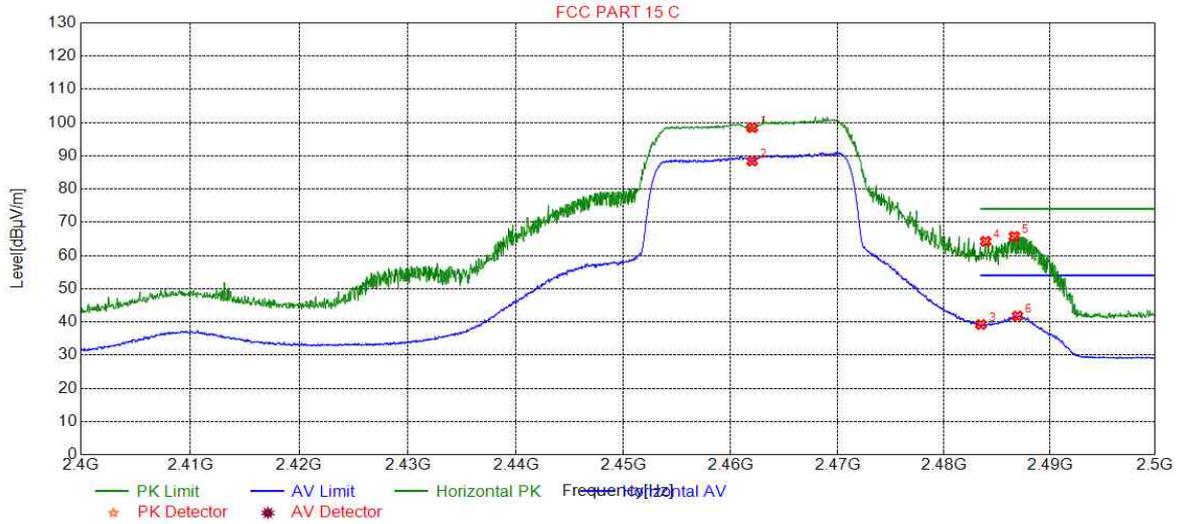
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**2.10.1.22 802.11N20\_ CH11\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	98.45	7.98	0.00	-98.45	150	203	Horizontal
2	2462.00	88.41	7.98	0.00	-88.41	150	212	Horizontal
3	2483.50	39.22	8.01	54.00	14.78	150	203	Horizontal
4	2483.94	64.25	8.01	74.00	9.75	150	203	Horizontal
5	2486.64	65.77	8.01	74.00	8.23	150	212	Horizontal
6	2486.94	41.75	8.01	54.00	12.25	150	212	Horizontal

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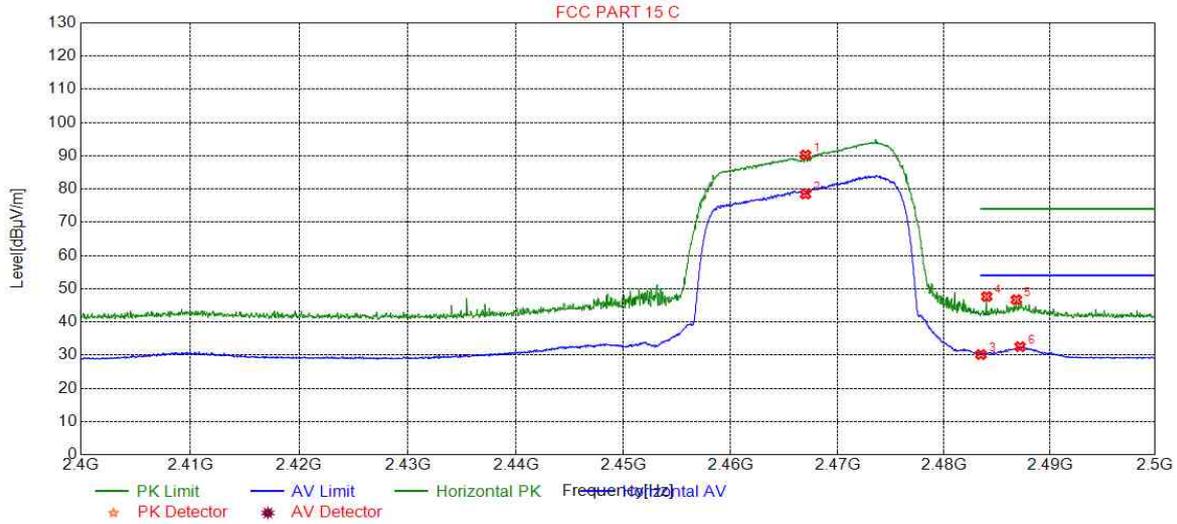
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**2.10.1.23 802.11N20\_ CH12\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	90.24	7.99	0.00	-90.24	150	214	Horizontal
2	2467.00	78.47	7.99	0.00	-78.47	150	209	Horizontal
3	2483.50	30.18	8.01	54.00	23.82	150	209	Horizontal
4	2484.04	47.64	8.01	74.00	26.36	150	346	Horizontal
5	2486.84	46.70	8.01	74.00	27.30	150	209	Horizontal
6	2487.19	32.56	8.01	54.00	21.44	150	209	Horizontal

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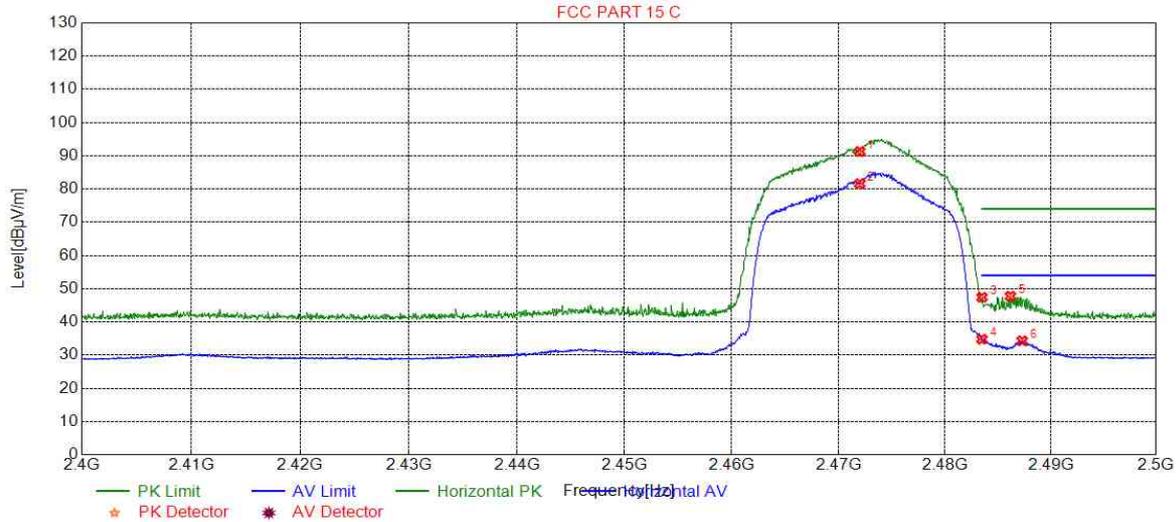
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**2.10.1.24 802.11N20\_ CH13\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	91.30	8.00	0.00	-91.30	150	202	Horizontal
2	2472.00	81.61	8.00	0.00	-81.61	150	211	Horizontal
3	2483.50	47.42	8.01	74.00	26.58	150	211	Horizontal
4	2483.50	34.80	8.01	54.00	19.20	150	202	Horizontal
5	2486.19	47.75	8.01	74.00	26.25	150	211	Horizontal
6	2487.29	34.33	8.01	54.00	19.67	150	220	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:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

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

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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 0.2%
4	RF power density, conducted	±2.84dB
5	Spurious emissions, conducted	±0.75dB
6	Radiated Spurious emission test	±4.8dB (30MHz-1GHz)
		±5.2dB (1GHz-6GHz)
		±5.5dB (6GHz-18GHz)
		±5.02dB (18GHz-40GHz)
7	Conduct emission test	±3.4 dB (9KHz- 30MHz)

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## 4 Equipment List

BT&WIFI Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2020-04-16	2021-04-15
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2020-04-16	2021-04-15
MXG vector signal Generator	Agilent	N5181A	XAW01-07-17	2020-04-16	2021-04-15
Measurement Software	Tonscend	JS1120-3	XAW02-13-02	NCR	NCR
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2019-11-28	2020-11-28
temperature chamber	Votsch	VT4002	XAW01-18-01	2020-06-28	2021-06-28
power supply	Agilent	66311B	XAW01-17-01	2020-06-20	2021-06-20

RE in Chamber					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	966	XAW03-35-01	NCR	NCR
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-02
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-02
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Receiving antenna	Rosenberger	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna	Rosenberger	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna	Rosenberger	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-18
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-18
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-03
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-18
5G UXM	Keysight	E7515B	XAW01-04-01	2019-09-04	2020-09-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-11-28	2020-11-28
Measurement Software	Tonscend	TS+ RSE&RE	XAW02-05-01	NCR	NCR
Measurement Software	Tonscend	TS+ CE	XAW02-05-02	NCR	NCR

## 5 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for ZR/2020/60015.

The End

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