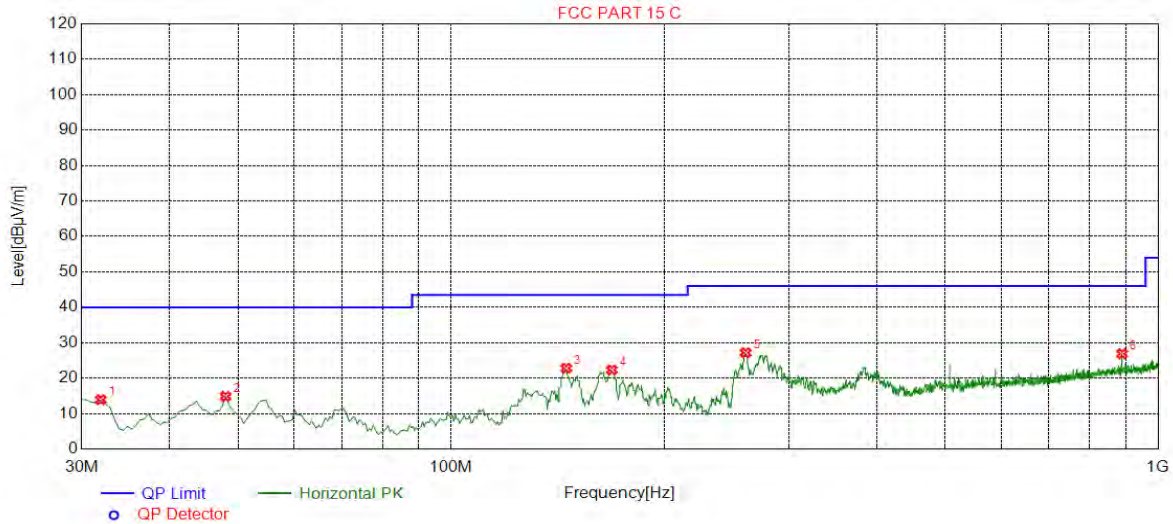


**4.9.1.2 Charge + Transmitting, Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.9410	13.90	-32.81	40.00	26.10	200	326	Horizontal
2	47.9540	14.85	-30.19	40.00	25.15	200	226	Horizontal
3	145.4877	22.80	-34.97	43.50	20.70	200	273	Horizontal
4	168.7794	22.33	-33.69	43.50	21.17	200	260	Horizontal
5	260.9755	27.15	-28.92	46.00	18.85	100	338	Horizontal
6	889.3647	26.88	-15.40	46.00	19.12	100	1	Horizontal

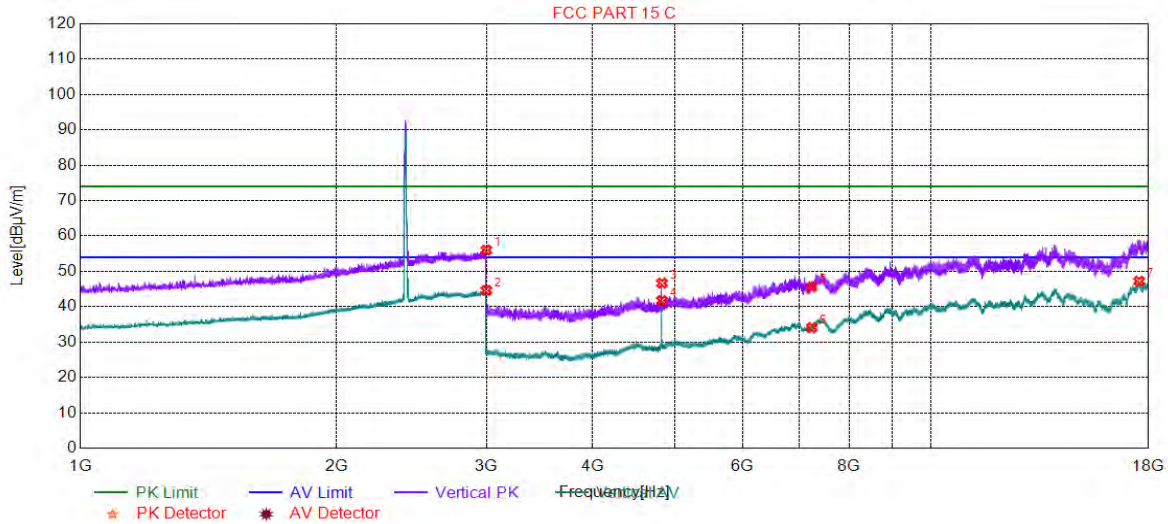


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### 4.9.2 Transmitter emission above 1GHz

#### 4.9.2.1 ANT1

##### 4.9.2.1.1 802.11B\_Lowest Channel\_Vertical



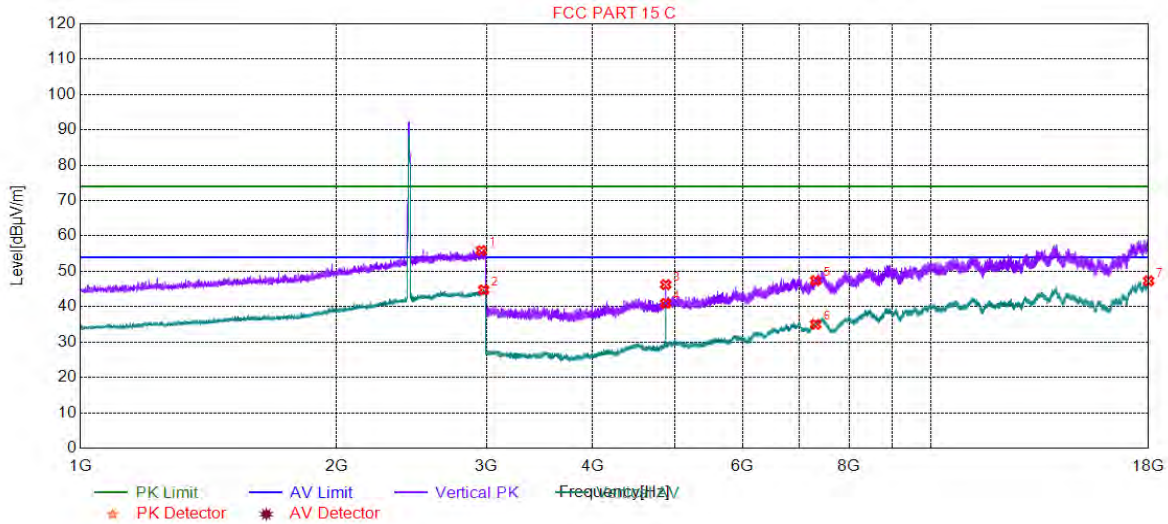
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2999.4999	56.00	9.44	74.00	18.00	150	298	Vertical
2	2999.4999	44.59	9.44	54.00	9.41	150	42	Vertical
3	4824.0000	46.67	-20.09	74.00	27.33	150	116	Vertical
4	4824.0000	41.72	-20.09	54.00	12.28	150	116	Vertical
5	7236.0000	45.63	-12.40	74.00	28.37	150	34	Vertical
6	7236.0000	34.07	-12.40	54.00	19.93	150	8	Vertical
7	17541.4771	47.22	0.88	54.00	6.78	150	226	Vertical



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2958.9897	55.92	9.39	74.00	18.08	150	257	Vertical
2	2978.4946	44.74	9.41	54.00	9.26	150	185	Vertical
3	4874.0000	46.24	-19.37	74.00	27.76	150	126	Vertical
4	4874.0000	40.95	-19.37	54.00	13.05	150	99	Vertical
5	7311.0000	47.36	-11.50	74.00	26.64	150	342	Vertical
6	7311.0000	35.01	-11.50	54.00	18.99	150	234	Vertical
7	17999.0000	47.32	-0.36	54.00	6.68	150	317	Vertical

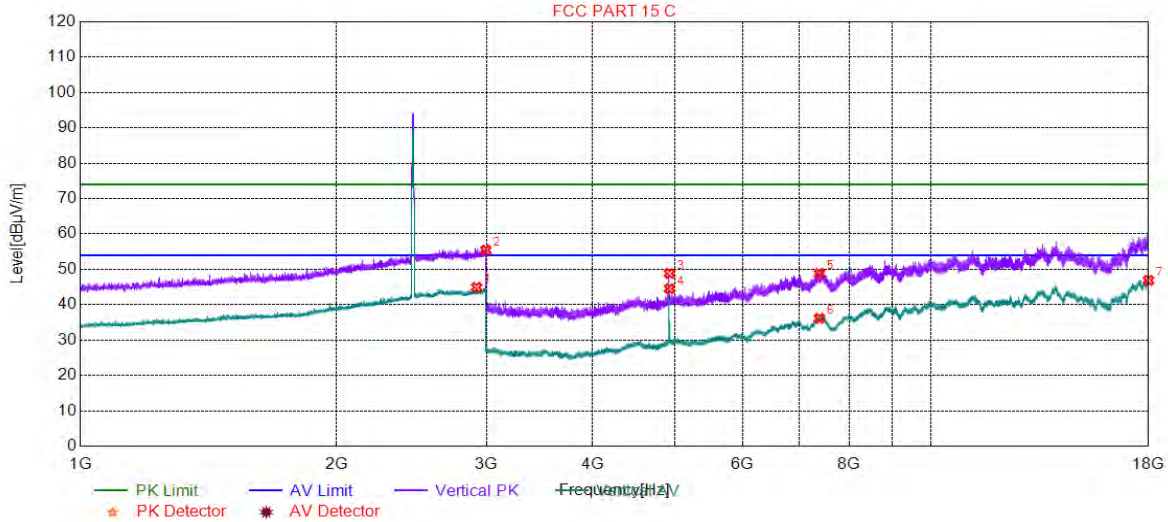


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**4.9.2.1.3 802.11B\_ Highest Channel\_ Vertical**



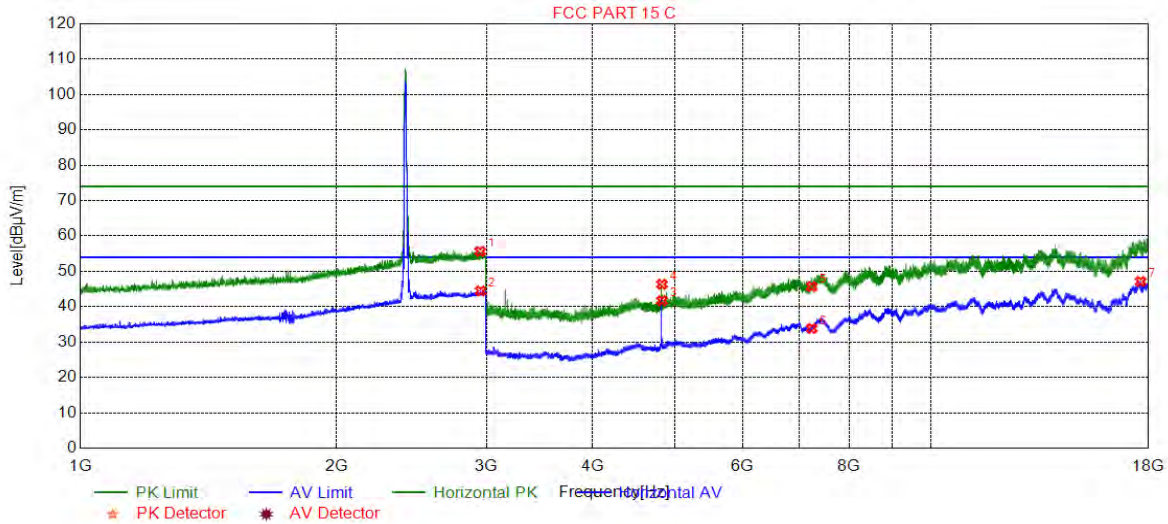
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2921.9805	44.91	9.34	54.00	9.09	150	306	Vertical
2	2995.4989	55.44	9.43	74.00	18.56	150	318	Vertical
3	4924.0000	48.84	-18.87	74.00	25.16	150	94	Vertical
4	4924.0000	44.52	-18.87	54.00	9.48	150	126	Vertical
5	7386.0000	48.85	-10.72	74.00	25.15	150	180	Vertical
6	7386.0000	36.14	-10.72	54.00	17.86	150	126	Vertical
7	17993.9997	46.87	-0.40	54.00	7.13	150	166	Vertical



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**4.9.2.1.4 802.11B\_Lowest Channel\_ Horizontal**



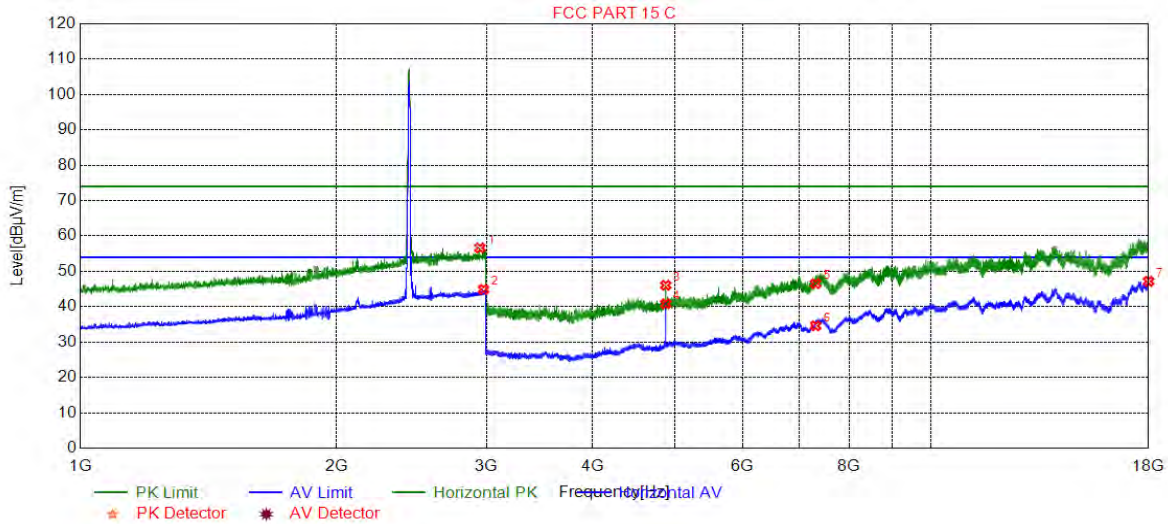
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.4876	55.64	9.38	74.00	18.36	150	184	Horizontal
2	2953.4884	44.46	9.38	54.00	9.54	150	37	Horizontal
3	4824.0000	41.71	-20.09	54.00	12.29	150	126	Horizontal
4	4824.0000	46.35	-20.09	74.00	27.65	150	99	Horizontal
5	7236.0000	45.67	-12.40	74.00	28.33	150	315	Horizontal
6	7236.0000	33.86	-12.40	54.00	20.14	150	261	Horizontal
7	17614.9807	47.15	1.24	54.00	6.85	150	316	Horizontal



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



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.4871	56.62	9.37	74.00	17.38	150	17	Horizontal
2	2976.9942	44.90	9.41	54.00	9.10	150	66	Horizontal
3	4874.0000	46.07	-19.37	74.00	27.93	150	100	Horizontal
4	4874.0000	40.82	-19.37	54.00	13.18	150	127	Horizontal
5	7311.0000	46.54	-11.50	74.00	27.46	150	287	Horizontal
6	7311.0000	34.60	-11.50	54.00	19.40	150	46	Horizontal
7	17997.9999	47.17	-0.37	54.00	6.83	150	166	Horizontal

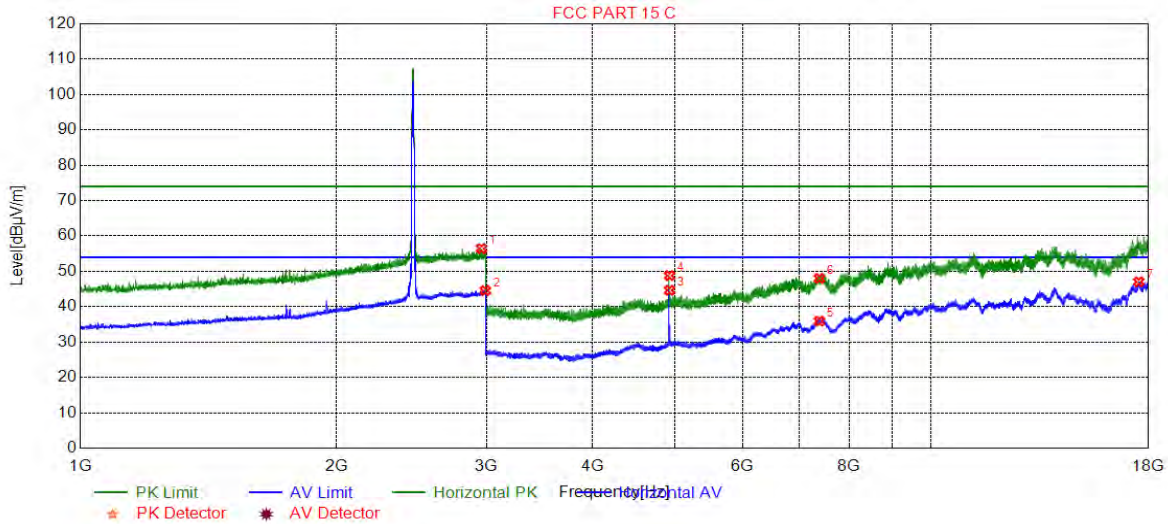


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**4.9.2.1.6 802.11B\_ Highest Channel\_ Horizontal**



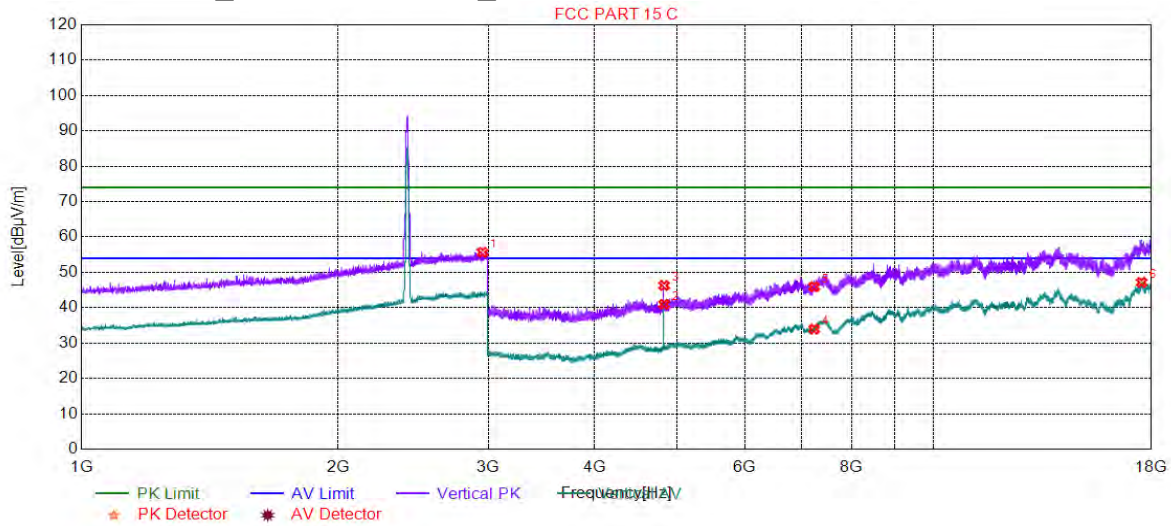
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2960.9902	56.46	9.39	74.00	17.54	150	274	Horizontal
2	2990.9977	44.56	9.43	54.00	9.44	150	200	Horizontal
3	4924.0000	44.64	-18.87	54.00	9.36	150	100	Horizontal
4	4924.0000	48.80	-18.87	74.00	25.20	150	100	Horizontal
5	7386.0000	35.95	-10.72	54.00	18.05	150	261	Horizontal
6	7386.0000	48.01	-10.72	74.00	25.99	150	127	Horizontal
7	17528.9764	47.05	0.72	54.00	6.95	150	323	Horizontal



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**4.9.2.1.7 802.11G\_Lowest Channel\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.9887	55.69	9.38	74.00	18.31	150	99	Vertical
2	4824.0000	40.99	-20.09	54.00	13.01	150	124	Horizontal
3	4824.0000	46.29	-20.09	74.00	27.71	150	126	Vertical
4	7236.0000	33.96	-12.40	54.00	20.04	150	151	Horizontal
5	7236.0000	45.93	-12.40	74.00	28.07	150	342	Vertical
6	17525.9763	47.17	0.68	54.00	6.83	150	117	Horizontal

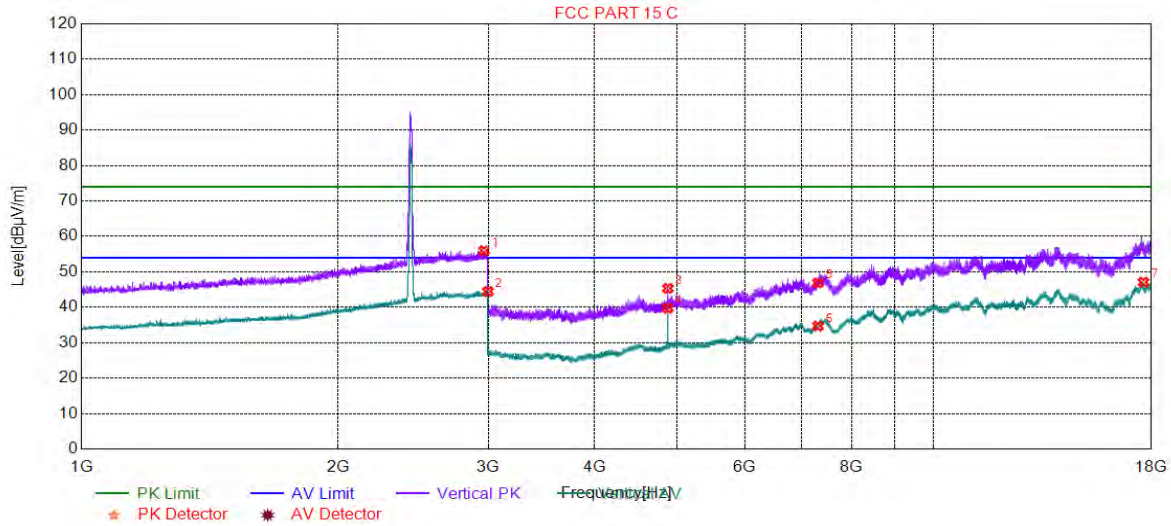


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**4.9.2.1.8 802.11G\_Middle Channel\_Vertical**



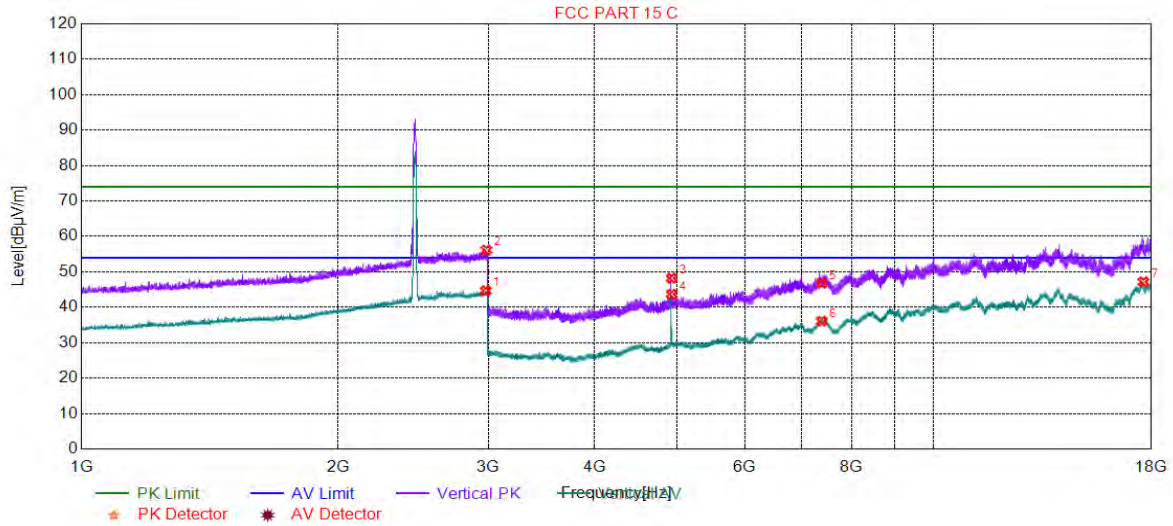
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2965.4914	55.99	9.40	74.00	18.01	150	343	Vertical
2	2997.9995	44.44	9.44	54.00	9.56	150	343	Vertical
3	4874.0000	45.35	-19.37	74.00	28.65	150	72	Vertical
4	4874.0000	39.73	-19.37	54.00	14.27	150	99	Vertical
5	7311.0000	46.85	-11.50	74.00	27.15	150	234	Vertical
6	7311.0000	34.70	-11.50	54.00	19.30	150	180	Vertical
7	17613.9807	47.10	1.27	54.00	6.90	150	316	Vertical



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**4.9.2.1.9 802.11G\_ Highest Channel\_ Vertical**



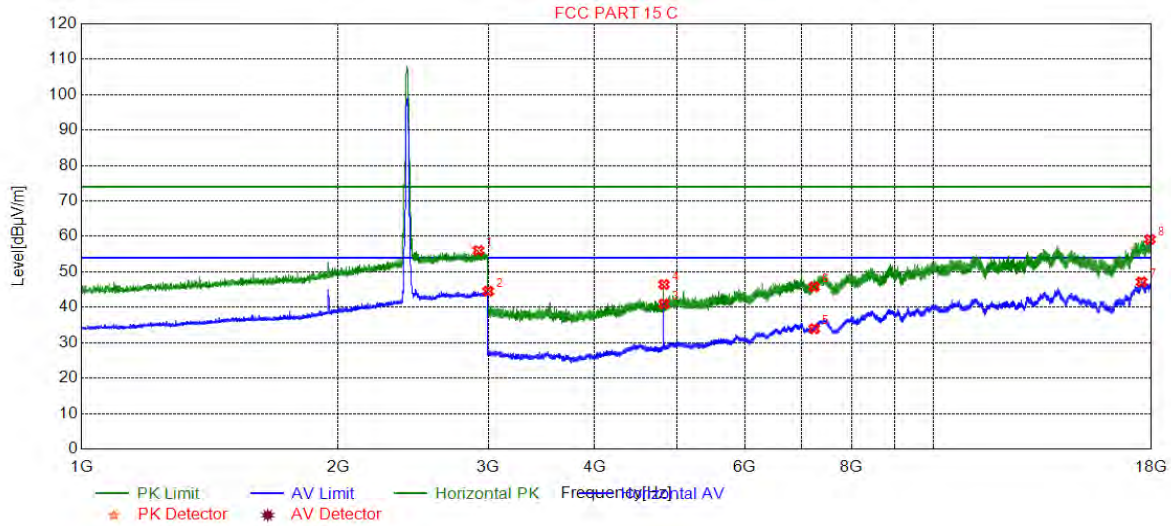
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.4951	44.67	9.41	54.00	9.33	150	343	Vertical
2	2985.4964	56.17	9.42	74.00	17.83	150	222	Vertical
3	4924.0000	48.21	-18.87	74.00	25.79	150	99	Vertical
4	4924.0000	43.70	-18.87	54.00	10.30	150	99	Vertical
5	7386.0000	46.80	-10.72	74.00	27.20	150	126	Vertical
6	7386.0000	36.07	-10.72	54.00	17.93	150	45	Vertical
7	17613.4807	47.19	1.28	54.00	6.81	150	216	Vertical



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**4.9.2.1.10 802.11G\_Lowest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2921.9805	56.04	9.34	74.00	17.96	150	188	Horizontal
2	3000.0000	44.53	9.44	54.00	9.47	150	298	Horizontal
3	4824.0000	40.99	-20.09	54.00	13.01	150	124	Horizontal
4	4824.0000	46.45	-20.09	74.00	27.55	150	124	Horizontal
5	7236.0000	33.96	-12.40	54.00	20.04	150	151	Horizontal
6	7236.0000	45.74	-12.40	74.00	28.26	150	204	Horizontal
7	17525.9763	47.17	0.68	54.00	6.83	150	117	Horizontal
8	17923.4962	59.16	-0.93	74.00	14.84	150	265	Horizontal

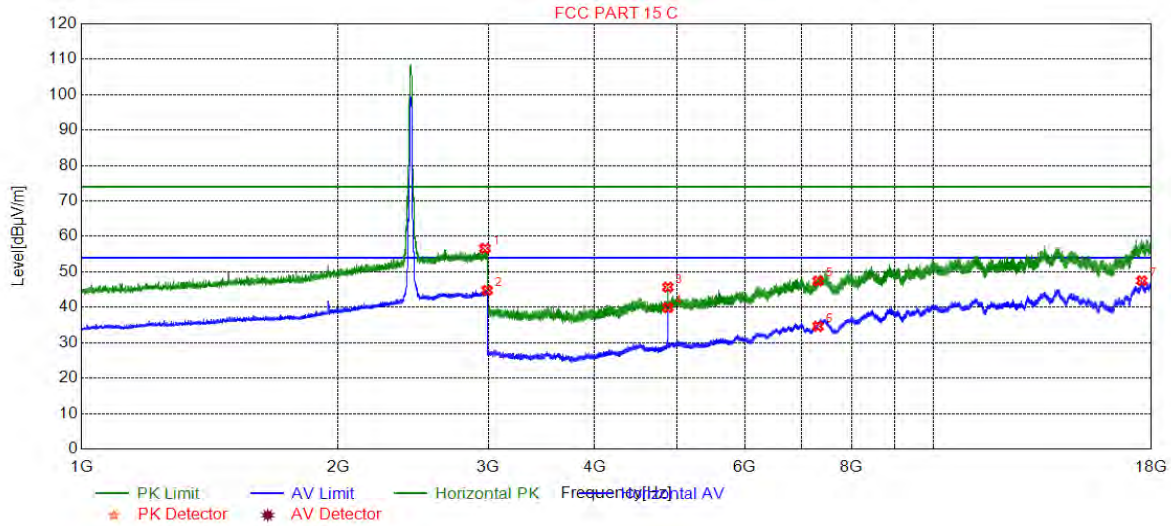


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**4.9.2.1.11 802.11G\_Middle Channel\_Horizontal**



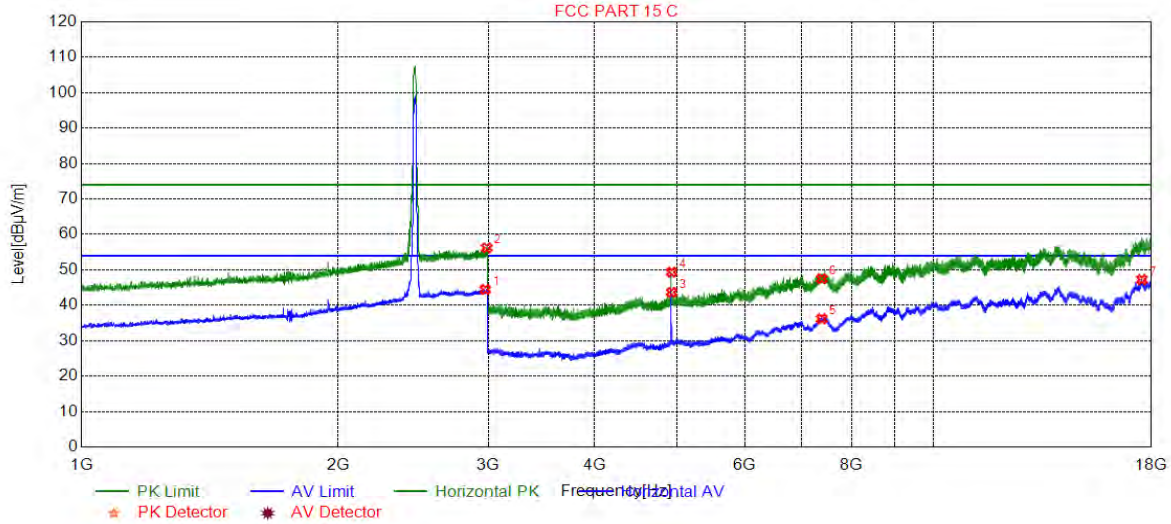
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.9935	56.63	9.41	74.00	17.37	150	17	Horizontal
2	2991.4979	44.77	9.43	54.00	9.23	150	285	Horizontal
3	4874.0000	45.68	-19.37	74.00	28.32	150	99	Horizontal
4	4874.0000	39.89	-19.37	54.00	14.11	150	127	Horizontal
5	7311.0000	47.42	-11.50	74.00	26.58	150	45	Horizontal
6	7311.0000	34.61	-11.50	54.00	19.39	150	45	Horizontal
7	17534.9767	47.50	0.80	54.00	6.50	150	266	Horizontal



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**4.9.2.1.12 802.11G\_ Highest Channel\_ Horizontal**



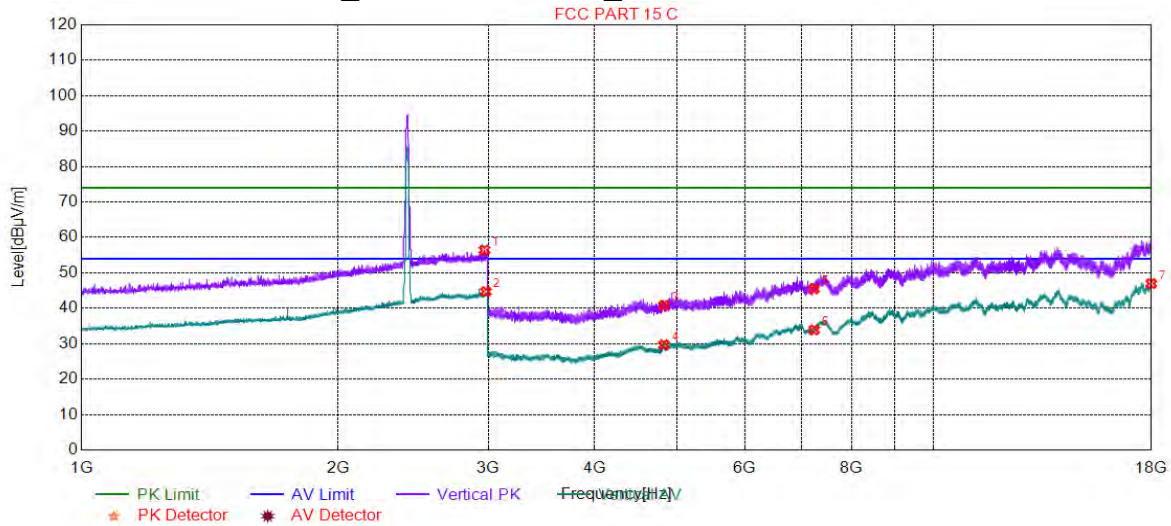
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2976.4941	44.46	9.41	54.00	9.54	150	29	Horizontal
2	2987.9970	56.21	9.42	74.00	17.79	150	139	Horizontal
3	4924.0000	43.66	-18.87	54.00	10.34	150	96	Horizontal
4	4924.0000	49.34	-18.87	74.00	24.66	150	96	Horizontal
5	7386.0000	36.18	-10.72	54.00	17.82	150	231	Horizontal
6	7386.0000	47.49	-10.72	74.00	26.51	150	42	Horizontal
7	17535.9768	47.25	0.81	54.00	6.75	150	315	Horizontal



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**4.9.2.1.13 802.11N20\_Lowest Channel\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2970.4926	56.46	9.40	74.00	17.54	150	184	Vertical
2	2980.4951	44.70	9.41	54.00	9.30	150	343	Vertical
3	4824.0000	40.85	-20.09	74.00	33.15	150	127	Vertical
4	4824.0000	29.70	-20.09	54.00	24.30	150	153	Vertical
5	7236.0000	45.52	-12.40	74.00	28.48	150	342	Vertical
6	7236.0000	33.92	-12.40	54.00	20.08	150	315	Vertical
7	17989.4995	46.96	-0.43	54.00	7.04	150	167	Vertical

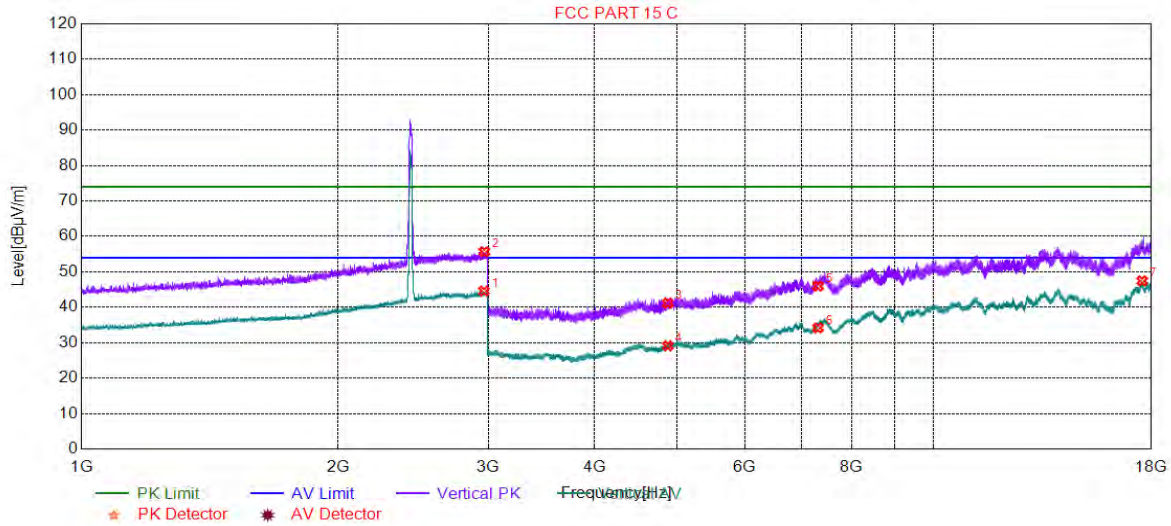


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**4.9.2.1.14 802.11N20\_Middle Channel\_Vertical**



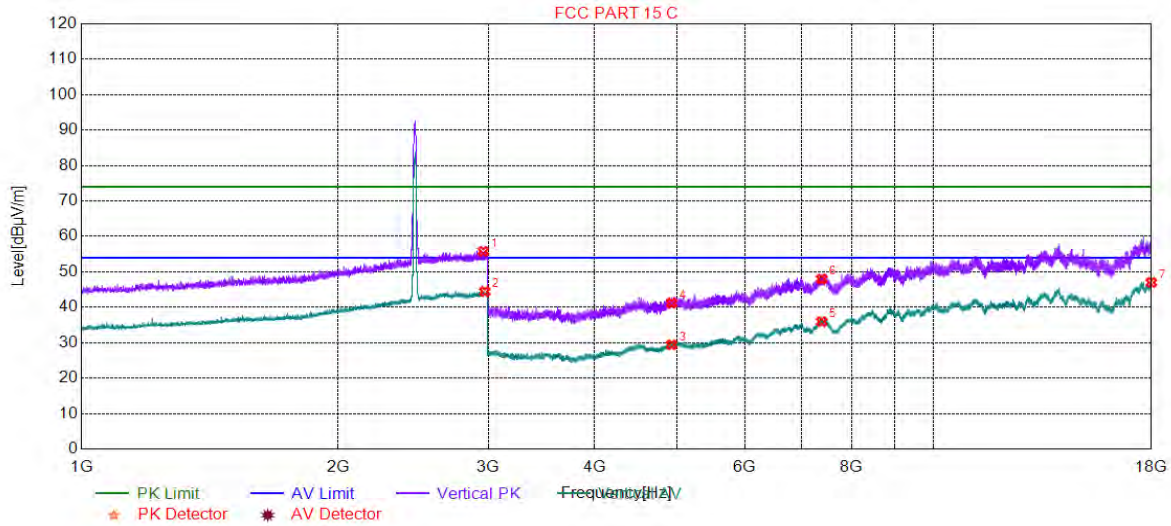
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2965.4914	44.58	9.40	54.00	9.42	150	318	Vertical
2	2968.4921	55.69	9.40	74.00	18.31	150	134	Vertical
3	4874.0000	41.19	-19.37	74.00	32.81	150	127	Vertical
4	4874.0000	29.12	-19.37	54.00	24.88	150	154	Vertical
5	7311.0000	45.97	-11.50	74.00	28.03	150	100	Vertical
6	7311.0000	34.18	-11.50	54.00	19.82	150	100	Vertical
7	17549.9775	47.46	0.99	54.00	6.54	150	68	Vertical



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**4.9.2.1.15 802.11N20\_ Highest Channel\_ Vertical**



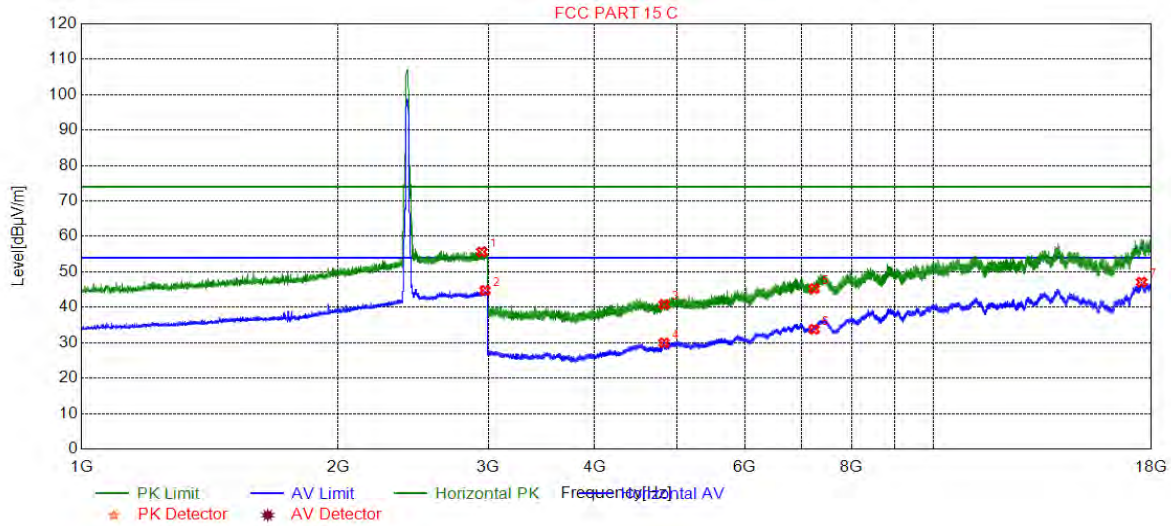
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2959.9900	55.82	9.39	74.00	18.18	150	87	Vertical
2	2972.4931	44.44	9.40	54.00	9.56	150	148	Vertical
3	4924.0000	29.41	-18.87	54.00	24.59	150	314	Vertical
4	4924.0000	41.19	-18.87	74.00	32.81	150	126	Vertical
5	7386.0000	35.94	-10.72	54.00	18.06	150	18	Vertical
6	7386.0000	47.96	-10.72	74.00	26.04	150	99	Vertical
7	17991.9996	47.02	-0.41	54.00	6.98	150	166	Vertical



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



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.4871	55.64	9.37	74.00	18.36	150	30	Horizontal
2	2974.9937	44.76	9.41	54.00	9.24	150	176	Horizontal
3	4824.0000	40.81	-20.09	74.00	33.19	150	127	Horizontal
4	4824.0000	29.96	-20.09	54.00	24.04	150	127	Horizontal
5	7236.0000	45.25	-12.40	74.00	28.75	150	0	Horizontal
6	7236.0000	33.79	-12.40	54.00	20.21	150	154	Horizontal
7	17524.9762	47.11	0.67	54.00	6.89	150	18	Horizontal

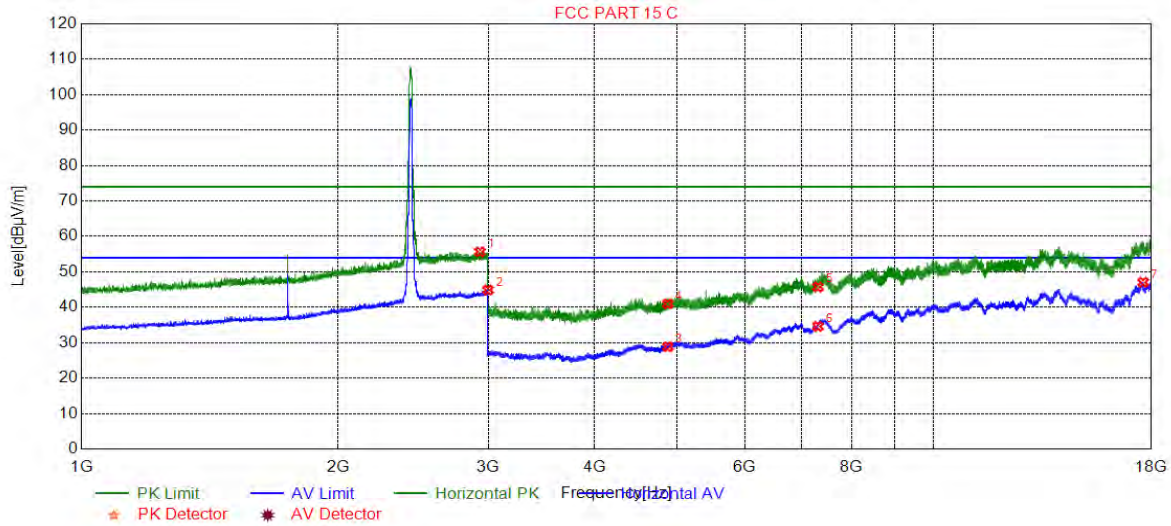


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**4.9.2.1.17 802.11N20\_ Middle Channel\_ Horizontal**



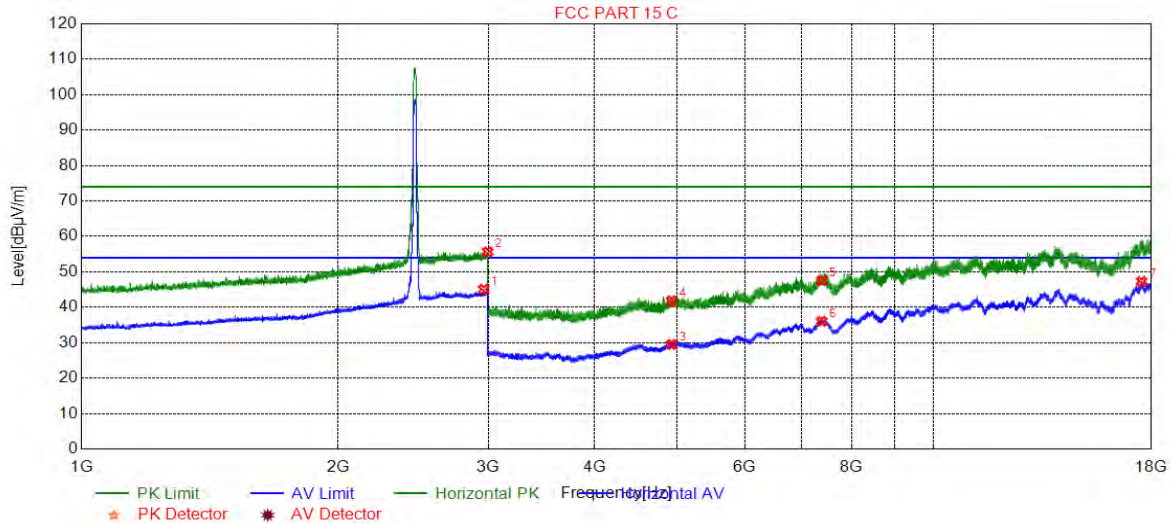
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2933.4834	55.66	9.35	74.00	18.34	150	67	Horizontal
2	2998.4996	44.87	9.44	54.00	9.13	150	288	Horizontal
3	4874.0000	28.85	-19.37	54.00	25.15	150	154	Horizontal
4	4874.0000	40.99	-19.37	74.00	33.01	150	261	Horizontal
5	7311.0000	45.72	-11.50	74.00	28.28	150	154	Horizontal
6	7311.0000	34.59	-11.50	54.00	19.41	150	46	Horizontal
7	17596.9798	47.06	1.59	54.00	6.94	150	216	Horizontal



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**4.9.2.1.18 802.11N20\_ Highest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.4911	45.06	9.39	54.00	8.94	150	17	Horizontal
2	2995.9990	55.63	9.43	74.00	18.37	150	262	Horizontal
3	4924.0000	29.51	-18.87	54.00	24.49	150	150	Horizontal
4	4924.0000	41.74	-18.87	74.00	32.26	150	150	Horizontal
5	7386.0000	47.56	-10.72	74.00	26.44	150	150	Horizontal
6	7386.0000	36.05	-10.72	54.00	17.95	150	230	Horizontal
7	17526.9763	47.27	0.70	54.00	6.73	150	237	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:			

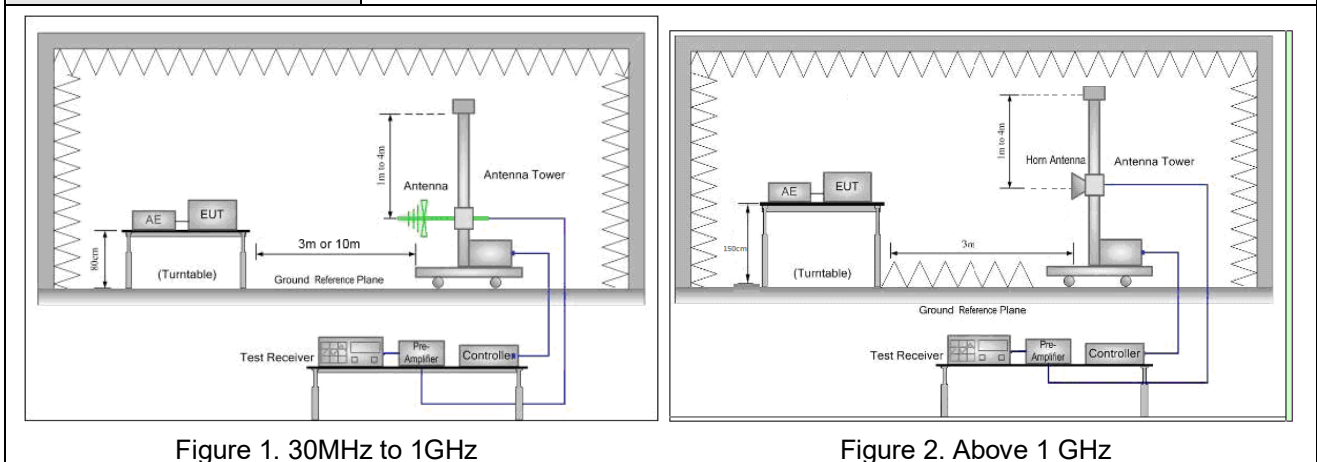


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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<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 camber. 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 camber. 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 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> </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); 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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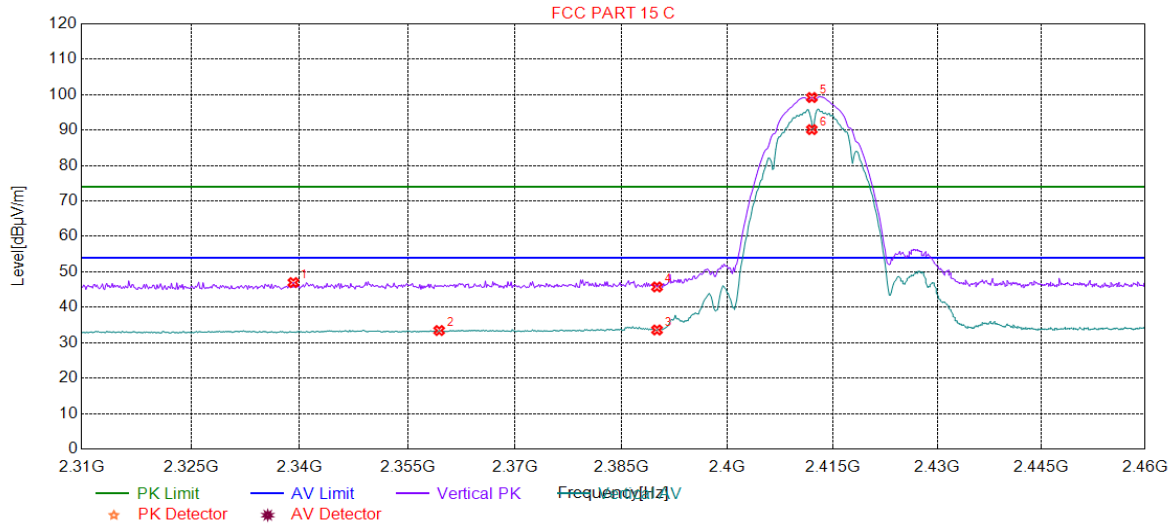
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Test plot as follows:

**4.10.1 ANT1**

**4.10.1.1 802.11B\_Lowest Channel\_Vertical**



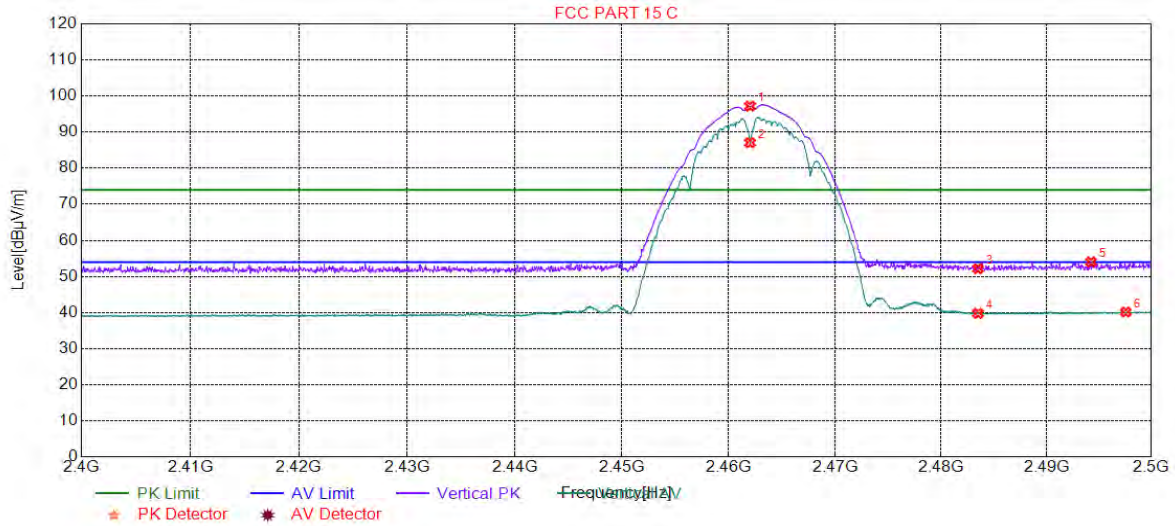
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2339.1291	46.98	7.49	74.00	27.02	150	336	Vertical
2	2359.3994	33.44	7.55	54.00	20.56	150	166	Vertical
3	2390.0000	33.60	7.64	54.00	20.40	150	336	Vertical
4	2390.0000	45.74	7.64	74.00	28.26	150	12	Vertical
5	2412.0000	99.20	7.74	74.00	-25.20	150	336	Vertical
6	2412.0000	90.15	7.74	54.00	-36.15	150	336	Vertical



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**4.10.1.2 802.11B\_ Highest Channel\_ Vertical**



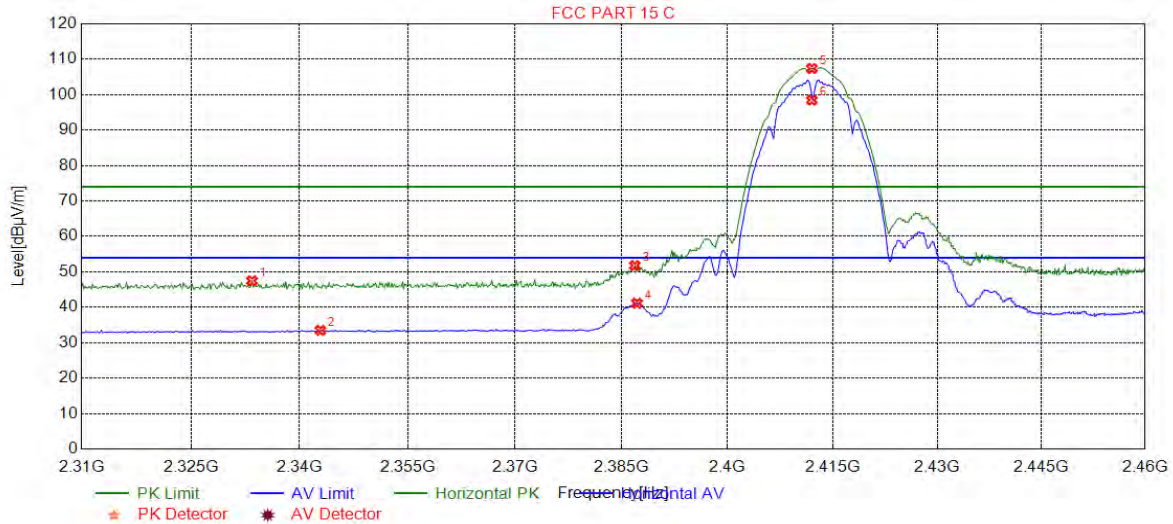
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	97.19	8.01	74.00	-23.19	150	341	Vertical
2	2462.0000	87.05	8.01	54.00	-33.05	150	346	Vertical
3	2483.5000	52.16	8.13	74.00	21.84	150	233	Vertical
4	2483.5000	39.76	8.13	54.00	14.24	150	190	Vertical
5	2494.2471	54.04	8.19	74.00	19.96	150	346	Vertical
6	2497.5488	40.15	8.21	54.00	13.85	150	48	Vertical



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



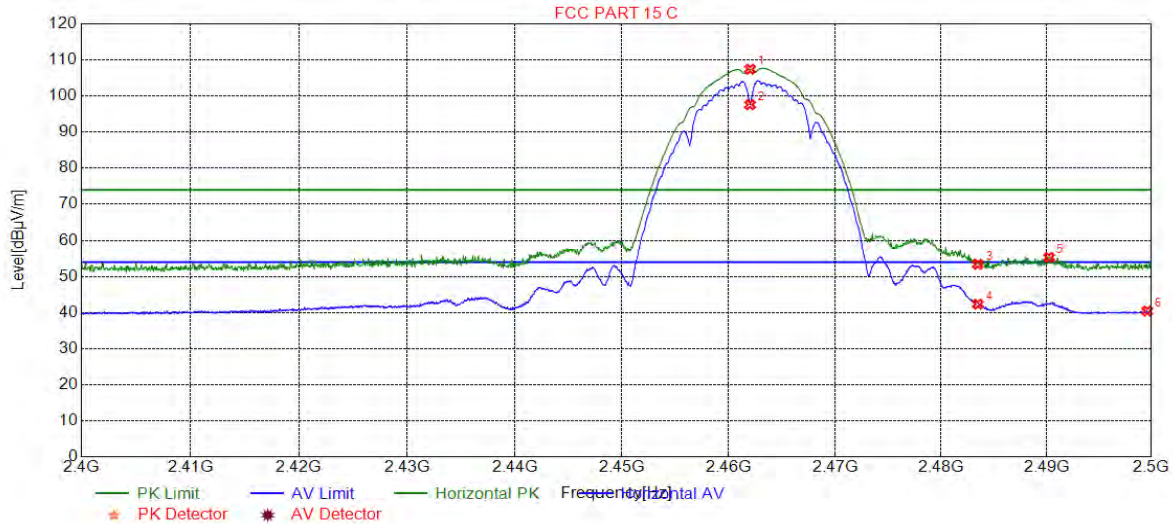
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2333.4234	47.48	7.47	74.00	26.52	150	104	Horizontal
2	2342.8829	33.46	7.50	54.00	20.54	150	83	Horizontal
3	2386.8769	51.77	7.63	74.00	22.23	150	83	Horizontal
4	2387.1772	41.14	7.63	54.00	12.86	150	83	Horizontal
5	2412.0000	107.40	7.74	74.00	-33.40	150	83	Horizontal
6	2412.0000	98.45	7.74	54.00	-44.45	150	104	Horizontal



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**4.10.1.4 802.11B\_ Highest Channel\_ Horizontal**



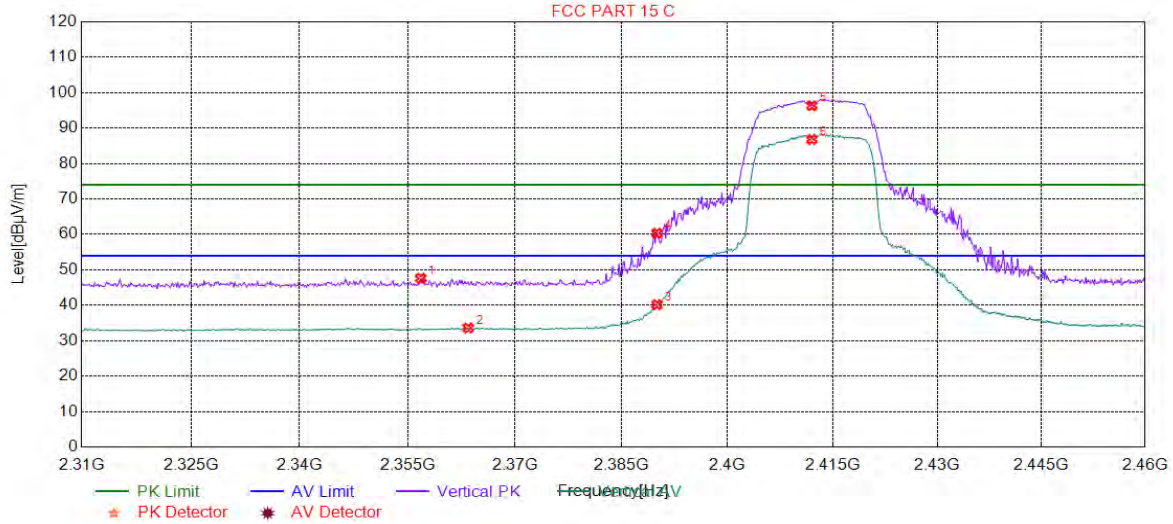
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	107.41	8.01	74.00	-33.41	150	80	Horizontal
2	2462.0000	97.58	8.01	54.00	-43.58	150	74	Horizontal
3	2483.5000	53.39	8.13	74.00	20.61	150	95	Horizontal
4	2483.5000	42.32	8.13	54.00	11.68	150	85	Horizontal
5	2490.2451	55.29	8.17	74.00	18.71	150	90	Horizontal
6	2499.5998	40.41	8.22	54.00	13.59	150	90	Horizontal



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**4.10.1.5 802.11G\_Lowest Channel\_Vertical**



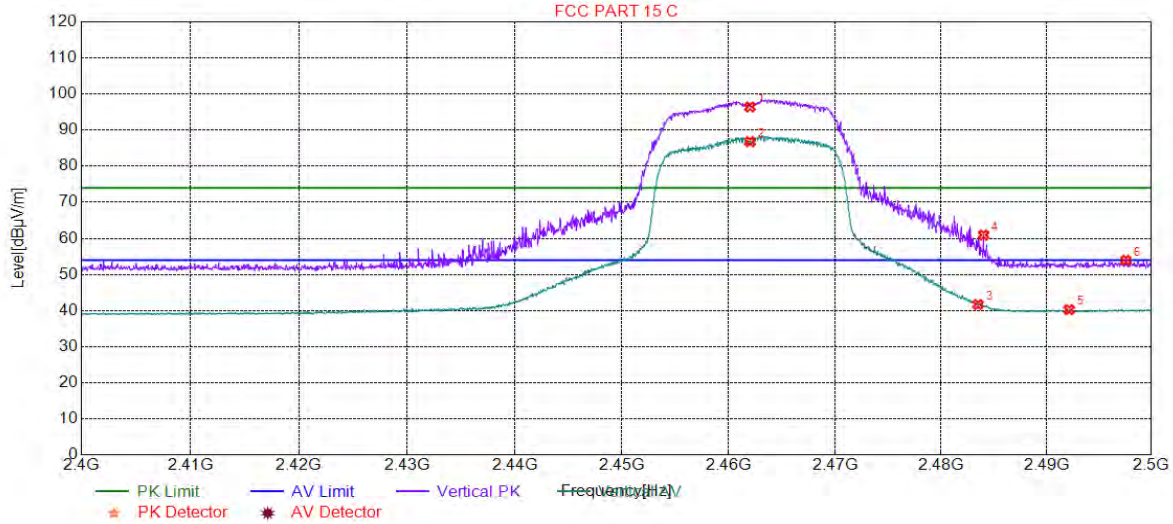
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2356.8468	47.63	7.54	74.00	26.37	150	64	Vertical
2	2363.4535	33.58	7.56	54.00	20.42	150	208	Vertical
3	2390.0000	40.17	7.64	54.00	13.83	150	342	Vertical
4	2390.0000	60.35	7.64	74.00	13.65	150	342	Vertical
5	2412.0000	96.33	7.74	74.00	-22.33	150	329	Vertical
6	2412.0000	86.79	7.74	54.00	-32.79	150	329	Vertical



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**4.10.1.6 802.11G\_Highest Channel\_Vertical**



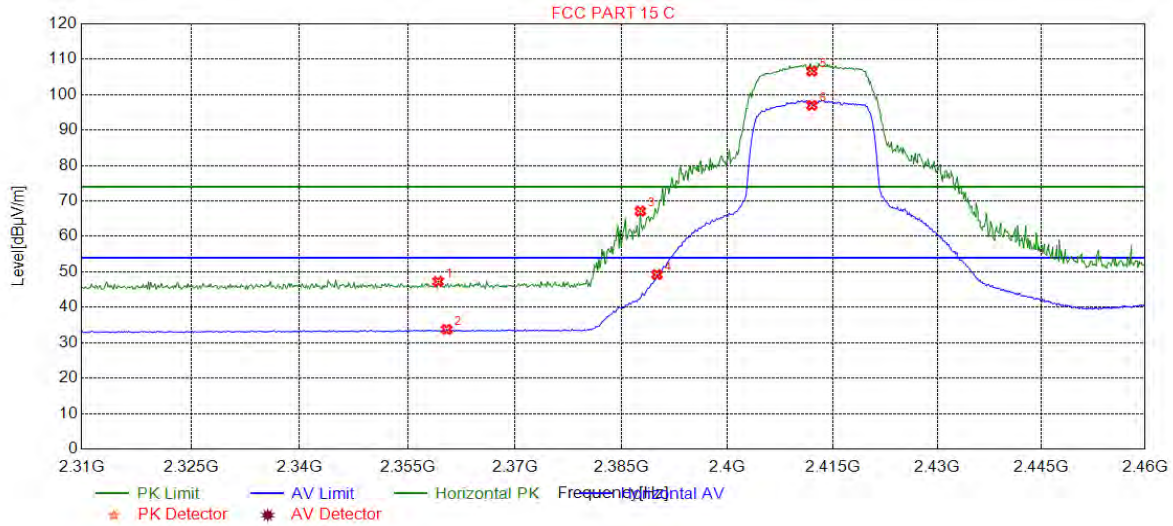
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	96.42	8.01	74.00	-22.42	150	340	Vertical
2	2462.0000	86.80	8.01	54.00	-32.80	150	340	Vertical
3	2483.5000	41.67	8.13	54.00	12.33	150	340	Vertical
4	2484.0420	60.92	8.13	74.00	13.08	150	340	Vertical
5	2492.1461	40.25	8.18	54.00	13.75	150	272	Vertical
6	2497.5488	53.98	8.21	74.00	20.02	150	60	Vertical



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



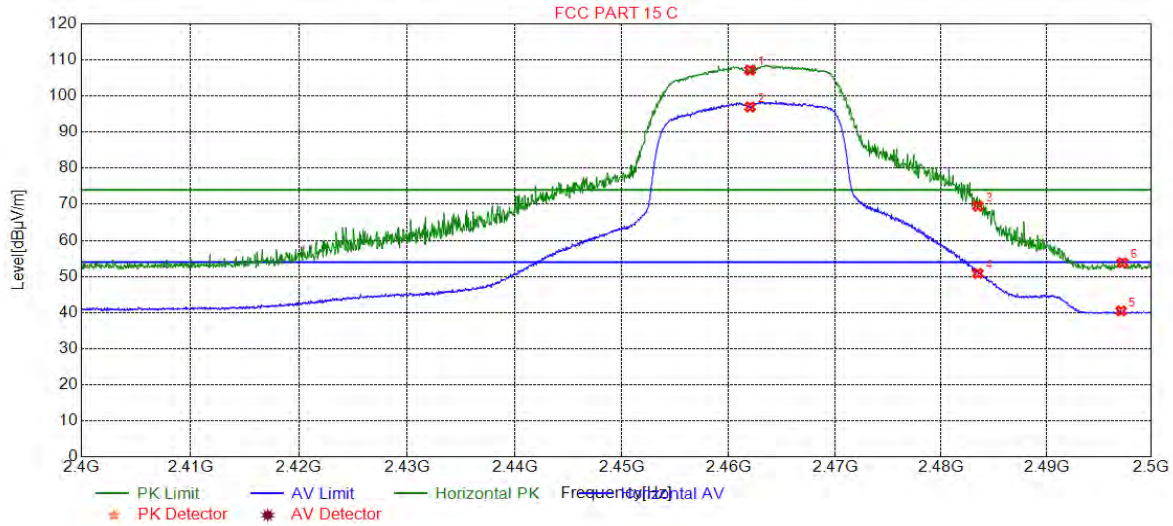
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2359.2492	47.27	7.55	74.00	26.73	150	234	Horizontal
2	2360.4505	33.75	7.55	54.00	20.25	150	15	Horizontal
3	2387.6276	67.14	7.63	74.00	6.86	150	76	Horizontal
4	2390.0000	49.25	7.64	54.00	4.75	150	80	Horizontal
5	2412.0000	106.62	7.74	74.00	-32.62	150	80	Horizontal
6	2412.0000	97.00	7.74	54.00	-43.00	150	76	Horizontal



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**4.10.1.8 802.11G\_ Highest Channel\_ Horizontal**



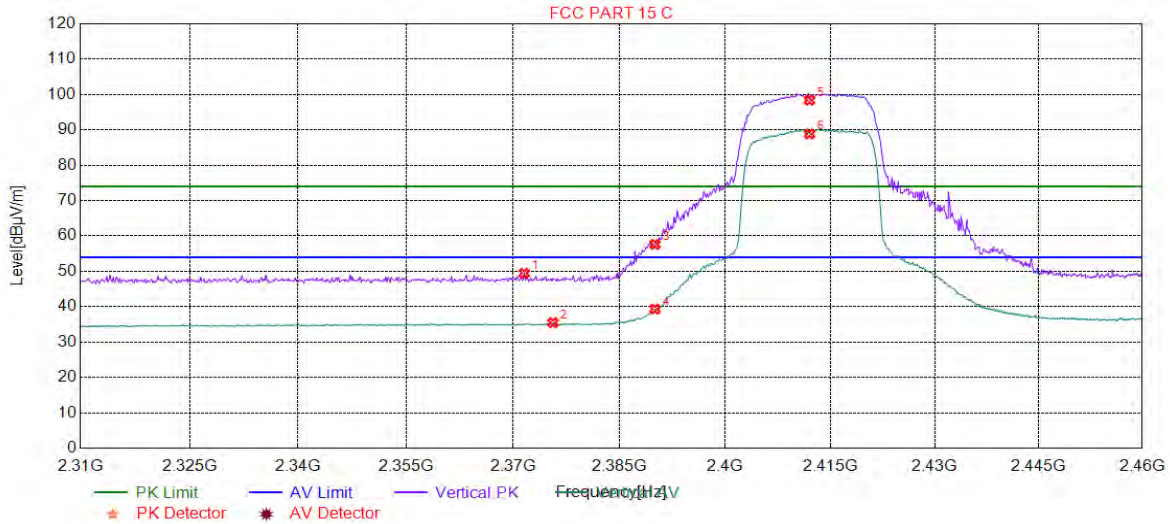
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	107.18	8.01	74.00	-33.18	150	76	Horizontal
2	2462.0000	96.96	8.01	54.00	-42.96	150	76	Horizontal
3	2483.5000	69.49	8.13	74.00	4.51	150	82	Horizontal
4	2483.5000	50.84	8.13	54.00	3.16	150	76	Horizontal
5	2497.0985	40.47	8.20	54.00	13.53	150	184	Horizontal
6	2497.2486	53.80	8.20	74.00	20.20	150	170	Horizontal



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**4.10.1.9 802.11N20\_Lowest Channel\_Vertical**

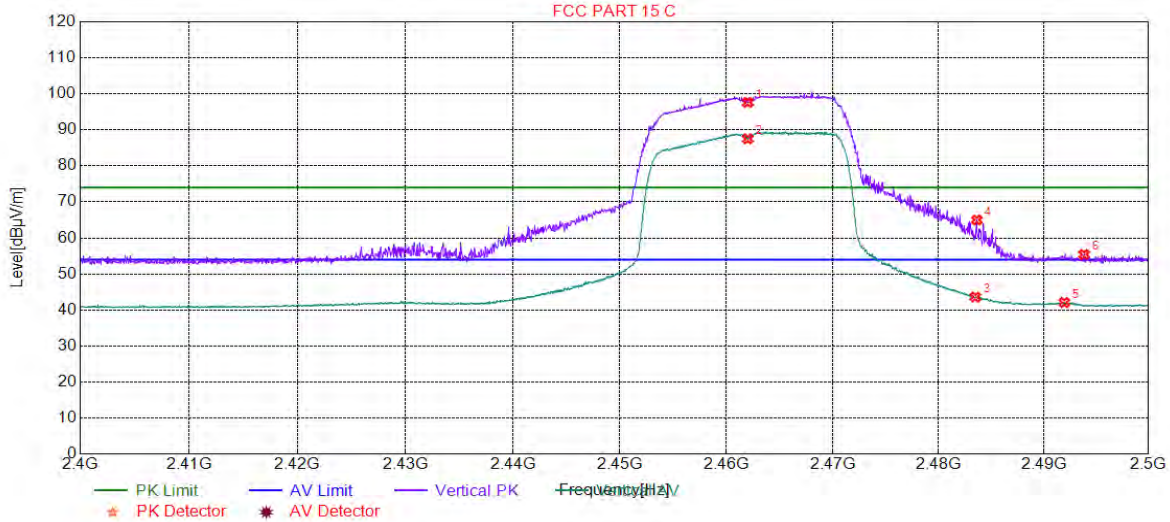


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.5616	49.45	9.14	74.00	24.55	150	179	Vertical
2	2375.6156	35.48	9.15	54.00	18.52	150	250	Vertical
3	2390.0000	57.62	9.20	74.00	16.38	150	241	Vertical
4	2390.0000	39.33	9.20	54.00	14.67	150	250	Vertical
5	2412.0000	98.41	9.27	74.00	-24.41	150	88	Vertical
6	2412.0000	88.86	9.27	54.00	-34.86	150	246	Vertical



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**4.10.1.10 802.11N20\_ Highest Channel\_ Vertical**



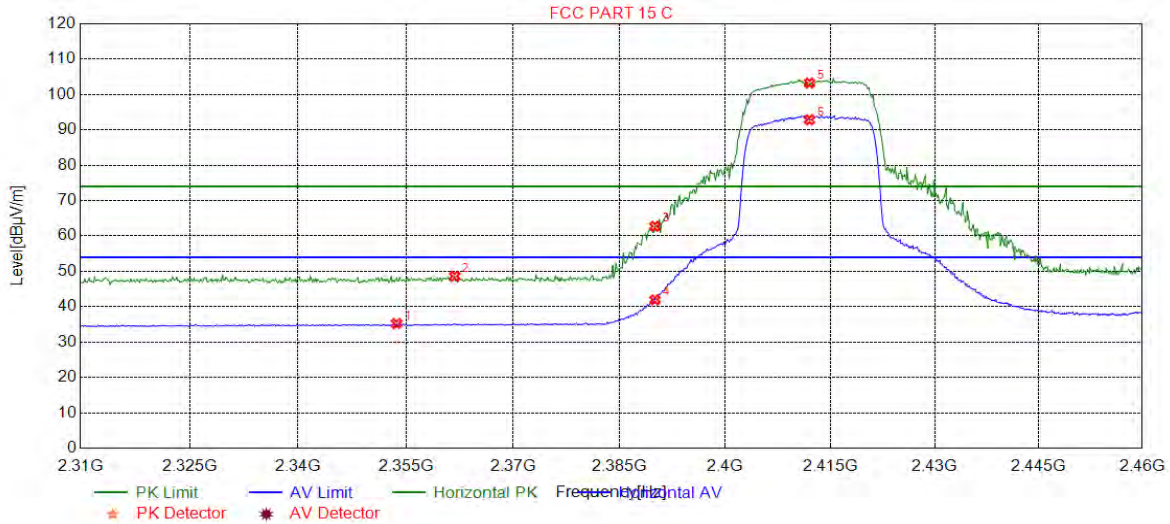
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	97.61	9.43	74.00	-23.61	150	78	Vertical
2	2462.0000	87.51	9.43	54.00	-33.51	150	244	Vertical
3	2483.5000	43.59	9.50	54.00	10.41	150	288	Vertical
4	2483.6418	64.99	9.50	74.00	9.01	150	73	Vertical
5	2491.9460	42.08	9.52	54.00	11.92	150	293	Vertical
6	2493.8469	55.41	9.53	74.00	18.59	150	299	Vertical



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



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2353.6937	35.24	9.08	54.00	18.76	150	78	Horizontal
2	2361.8018	48.65	9.10	74.00	25.35	150	278	Horizontal
3	2390.0000	62.74	9.20	74.00	11.26	150	311	Horizontal
4	2390.0000	41.94	9.20	54.00	12.06	150	257	Horizontal
5	2412.0000	103.24	9.27	74.00	-29.24	150	253	Horizontal
6	2412.0000	92.84	9.27	54.00	-38.84	150	253	Horizontal

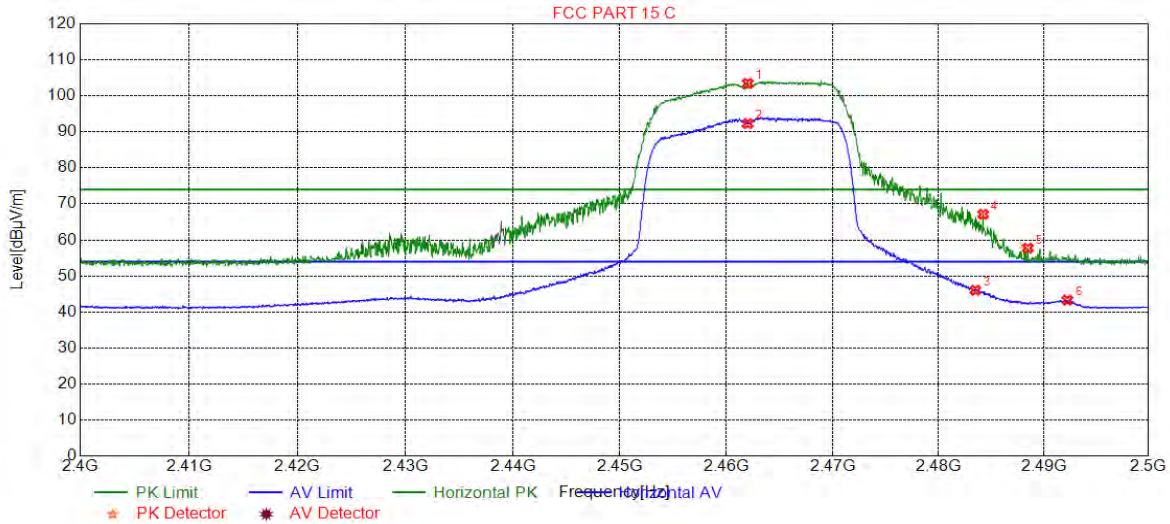


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**4.10.1.12 802.11N20\_ Highest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	103.46	9.43	74.00	-29.46	150	253	Horizontal
2	2462.0000	92.29	9.43	54.00	-38.29	150	253	Horizontal
3	2483.5000	46.04	9.50	54.00	7.96	150	253	Horizontal
4	2484.2421	67.12	9.50	74.00	6.88	150	253	Horizontal
5	2488.4942	57.72	9.51	74.00	16.28	150	263	Horizontal
6	2492.2461	43.29	9.53	54.00	10.71	150	253	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	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	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	2019/6/12	2020/6/11
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	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(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	2019/6/12	2020/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019/7/14	2020/7/14
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	Cal. Due date
				(yyyy-mm-dd)	(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	2019/6/12	2020/6/11
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	2019/7/14	2020/7/14
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/9/3	2020/9/2
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
Band filter	N/A	N/A	SEM023-01	N/A	N/A



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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)
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	2018/3/15	2020/3/14
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	2019/6/12	2020/6/11

## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2019/A0032.

The End



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