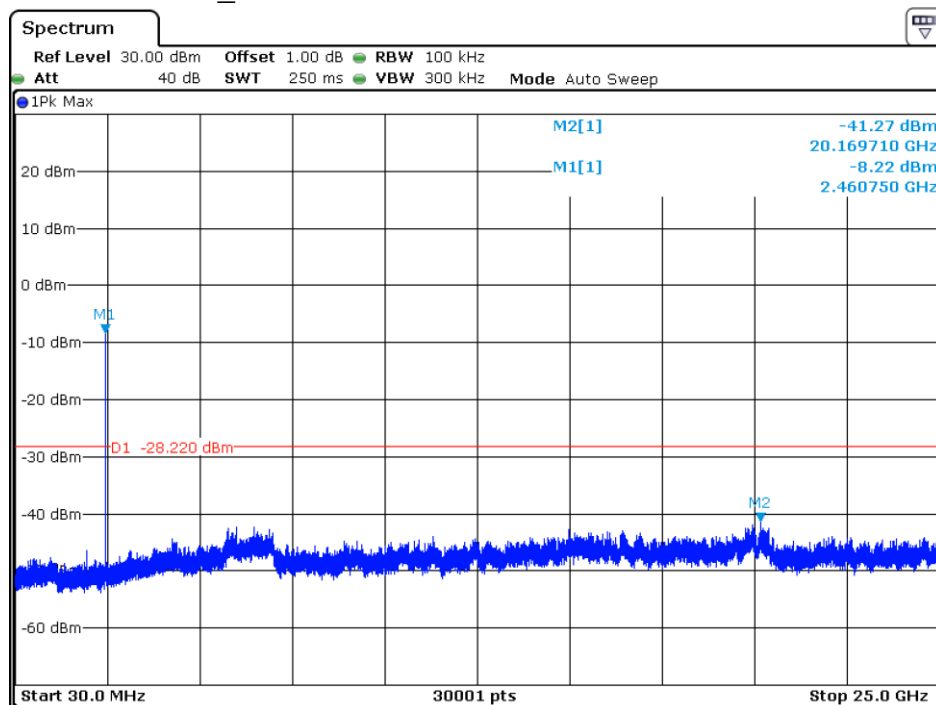




2.8.1.14

802.11N20_CH12



Date: 15 JUL 2020 10:24:57

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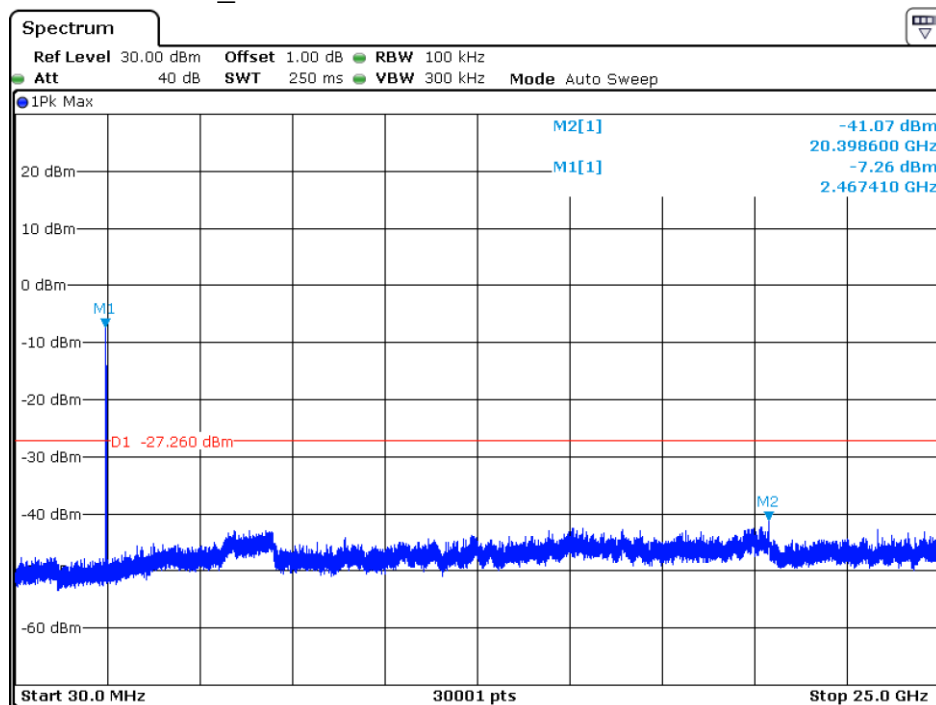
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2.8.1.15

802.11N20_CH13



Date: 15 JUL 2020 10:24:18

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.

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2.9 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 or 10m (Semi-Anechoic Chamber)				
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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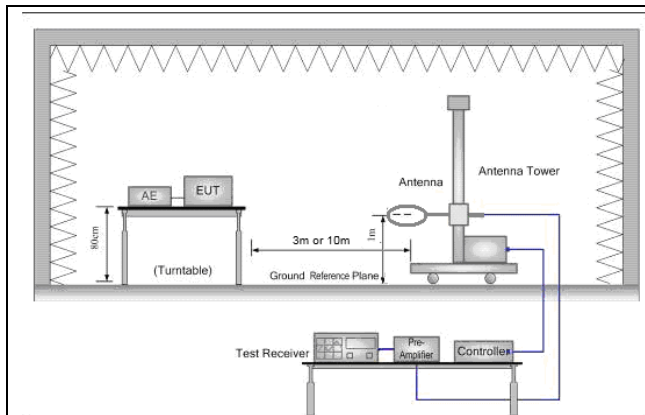


Figure 1. Below 30MHz

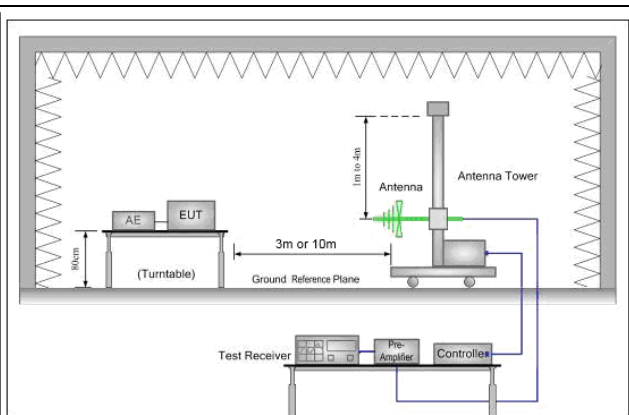


Figure 2. 30MHz to 1GHz

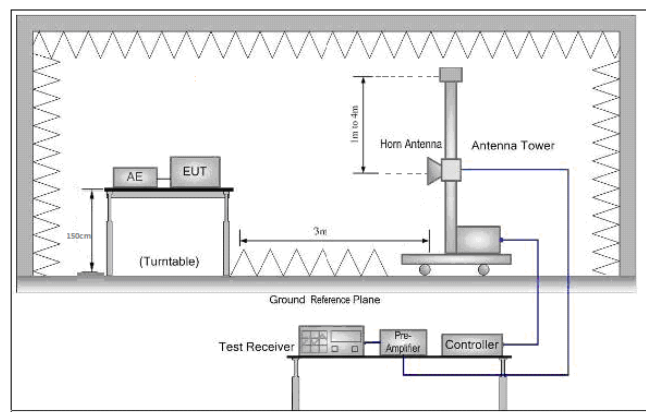


Figure 3. Above 1 GHz

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 rotating 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

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Report No.: ZR/2020/6001704

Page: 101 of 161

	<p>SpecifiedBandwidth with Maximum Hold Mode.</p> <p>g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel,the middle channel ,the Highest channel</p> <p>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.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
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); 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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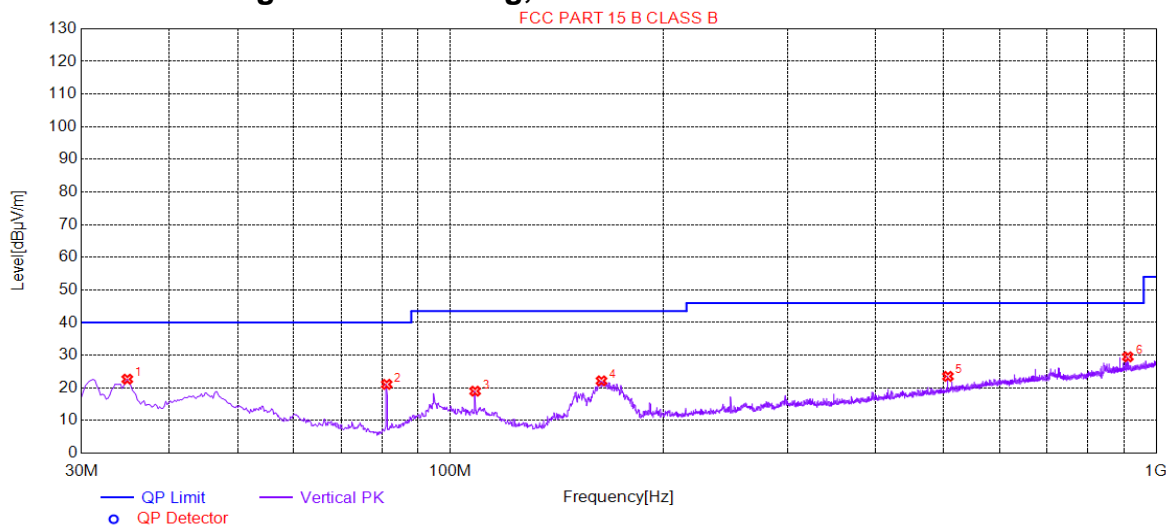
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2.9.1 Radiated emission below 1GHz

2.9.1.1 Charge + Transmitting, Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8510	22.67	-29.96	40.00	17.33	100	336	Vertical
2	81.2262	21.09	-35.85	40.00	18.91	200	2	Vertical
3	108.391	19.00	-32.00	43.50	24.50	100	110	Vertical
4	163.692	22.16	-34.41	43.50	21.34	100	14	Vertical
5	506.947	23.53	-23.14	46.00	22.47	100	37	Vertical
6	911.712	29.51	-15.90	46.00	16.49	100	136	Vertical

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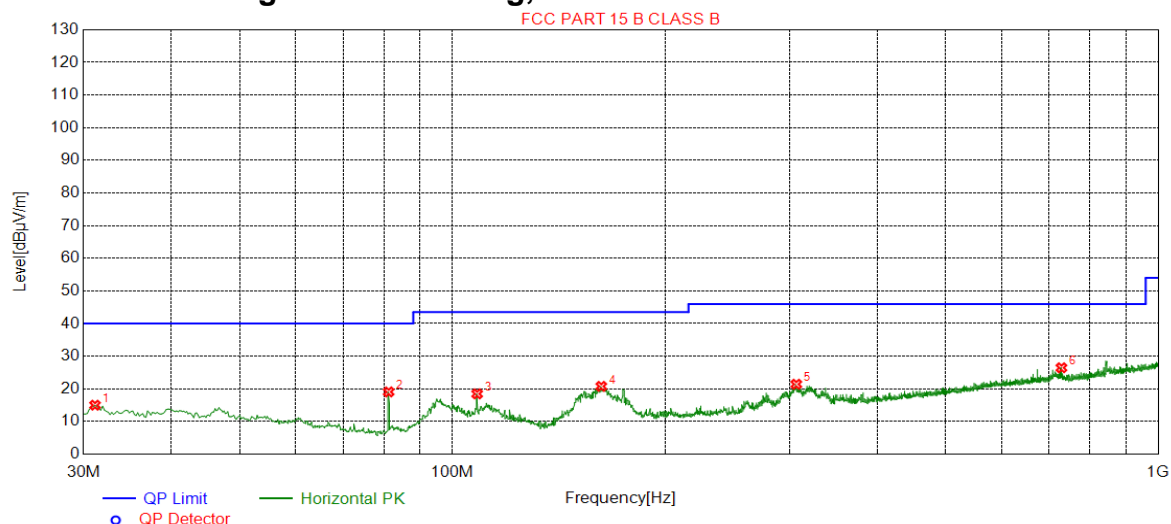
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2.9.1.2 Charge + Transmitting, Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.1642	15.01	-30.05	40.00	24.99	200	338	Horizontal
2	81.2262	19.08	-35.85	40.00	20.92	200	95	Horizontal
3	108.391	18.48	-32.00	43.50	25.02	200	267	Horizontal
4	162.528	20.78	-34.48	43.50	22.72	200	98	Horizontal
5	307.087	21.43	-28.06	46.00	24.57	100	64	Horizontal
6	729.315	26.47	-18.82	46.00	19.53	100	95	Horizontal

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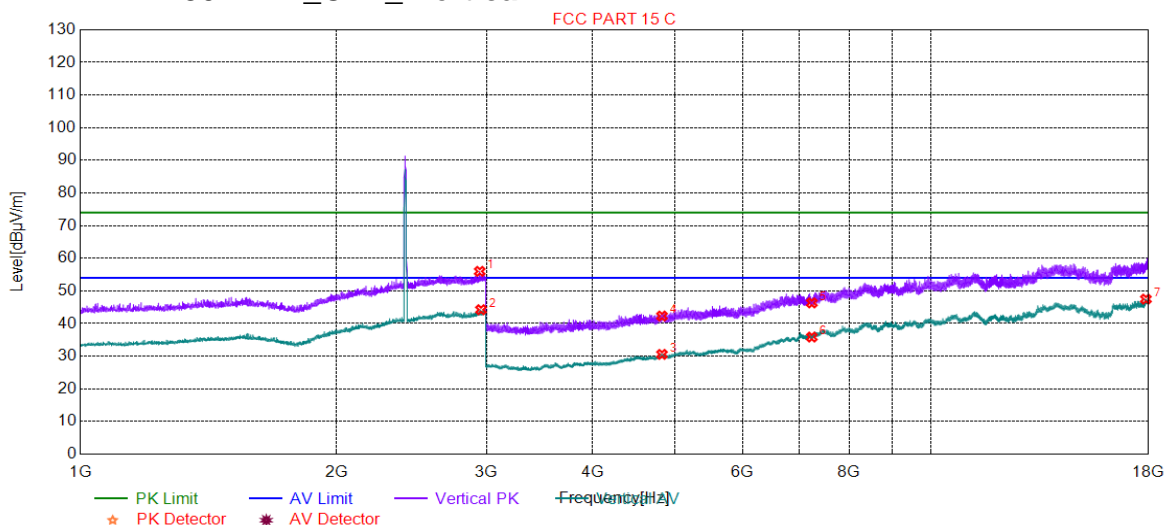
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2.9.2 Transmitter emission above 1GHz

2.9.2.1 802.11B_CH1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.48	56.00	9.64	74.00	18.00	150	300	Vertical
2	2956.48	44.25	9.65	54.00	9.75	150	52	Vertical
3	4824.00	30.58	-18.21	54.00	23.42	150	182	Vertical
4	4824.00	42.32	-18.21	74.00	31.68	150	360	Vertical
5	7236.00	46.34	-9.99	74.00	27.66	150	140	Vertical
6	7236.00	35.88	-9.99	54.00	18.12	150	191	Vertical
7	17867.9	47.50	0.27	54.00	6.50	150	90	Vertical

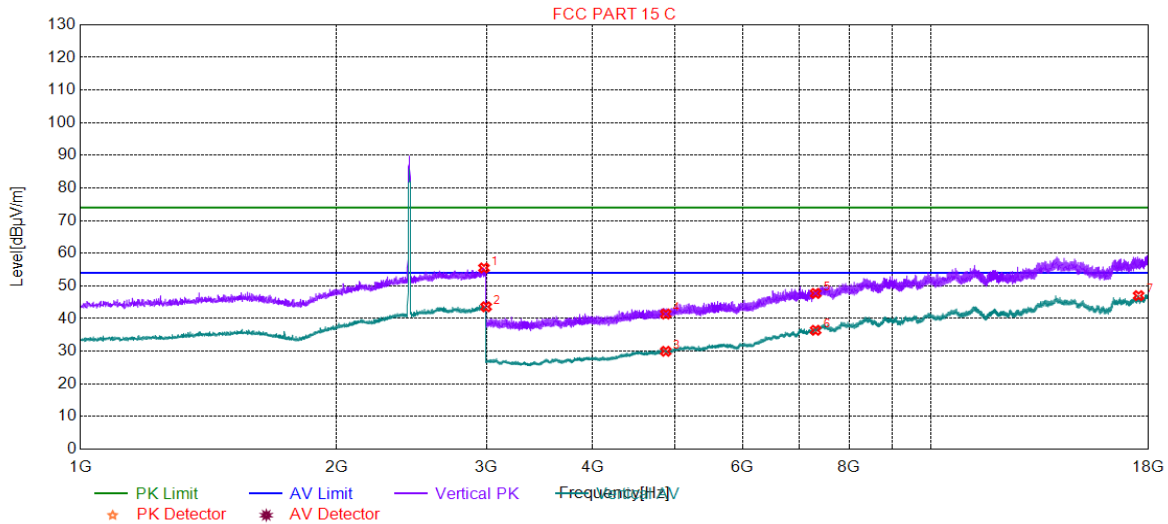
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2.9.2.2 802.11B_CH6_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.49	55.51	9.54	74.00	18.49	150	64	Vertical
2	2997.49	43.62	9.46	54.00	10.38	150	148	Vertical
3	4874.00	29.99	-17.99	54.00	24.01	150	236	Vertical
4	4874.00	41.41	-17.99	74.00	32.59	150	209	Vertical
5	7311.00	47.72	-9.74	74.00	26.28	150	0	Vertical
6	7311.00	36.43	-9.74	54.00	17.57	150	0	Vertical
7	17519.2	47.02	1.00	54.00	6.98	150	0	Vertical

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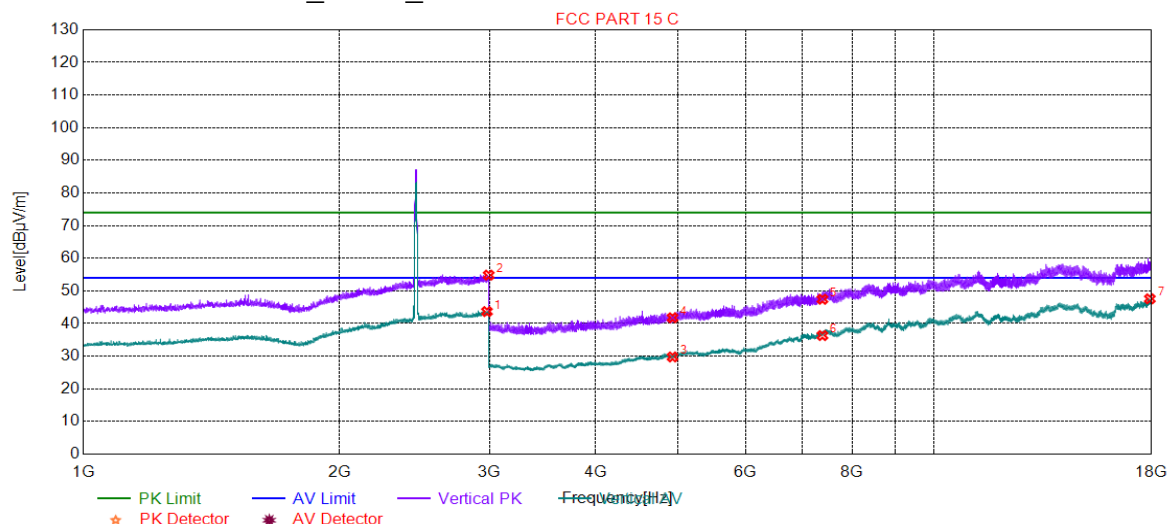
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2.9.2.3 802.11B_CH11_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.49	43.69	9.54	54.00	10.31	150	2	Vertical
2	2994.49	54.85	9.48	74.00	19.15	150	342	Vertical
3	4924.00	29.79	-17.72	54.00	24.21	150	265	Vertical
4	4924.00	41.80	-17.72	74.00	32.20	150	265	Vertical
5	7386.00	47.46	-9.55	74.00	26.54	150	191	Vertical
6	7386.00	36.34	-9.55	54.00	17.66	150	90	Vertical
7	17913.6	47.60	0.69	54.00	6.40	150	140	Vertical

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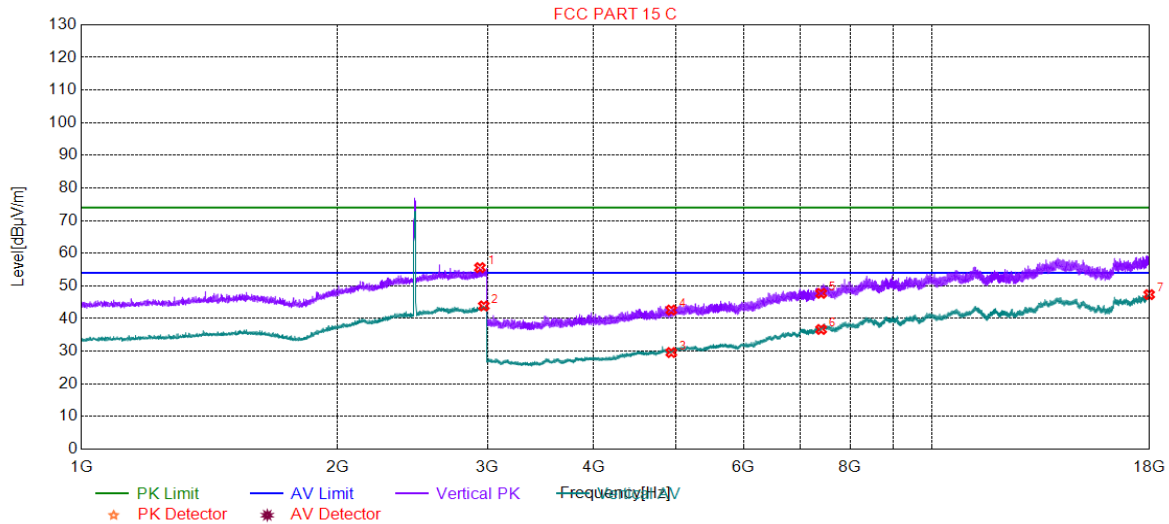
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2.9.2.4 802.11B_CH12_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2939.98	55.61	9.57	74.00	18.39	150	174	Vertical
2	2970.99	43.88	9.58	54.00	10.12	150	62	Vertical
3	4934.00	29.61	-17.65	54.00	24.39	150	46	Vertical
4	4934.00	42.62	-17.65	74.00	31.38	150	46	Vertical
5	7401.00	47.73	-9.50	74.00	26.27	150	0	Vertical
6	7401.00	36.68	-9.50	54.00	17.32	150	0	Vertical
7	17977.4	47.35	0.71	54.00	6.65	150	142	Vertical

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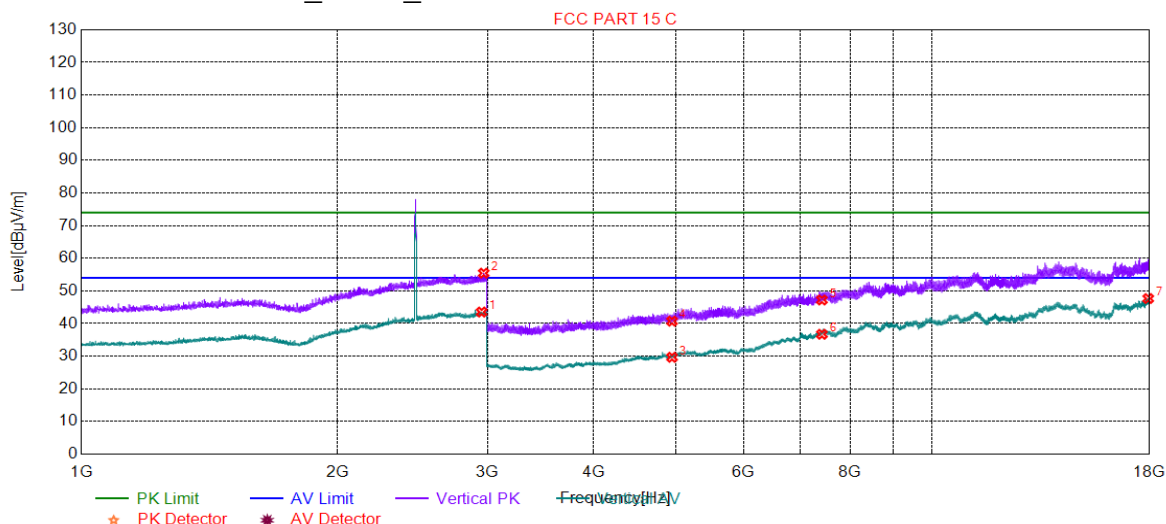
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2.9.2.5 802.11B_CH13_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2953.48	43.54	9.66	54.00	10.46	150	136	Vertical
2	2969.99	55.45	9.59	74.00	18.55	150	247	Vertical
3	4944.00	29.68	-17.58	54.00	24.32	150	100	Vertical
4	4944.00	40.75	-17.58	74.00	33.25	150	320	Vertical
5	7416.00	47.24	-9.44	74.00	26.76	150	141	Vertical
6	7416.00	36.73	-9.44	54.00	17.27	150	141	Vertical
7	17932.3	47.68	0.70	54.00	6.32	150	41	Vertical

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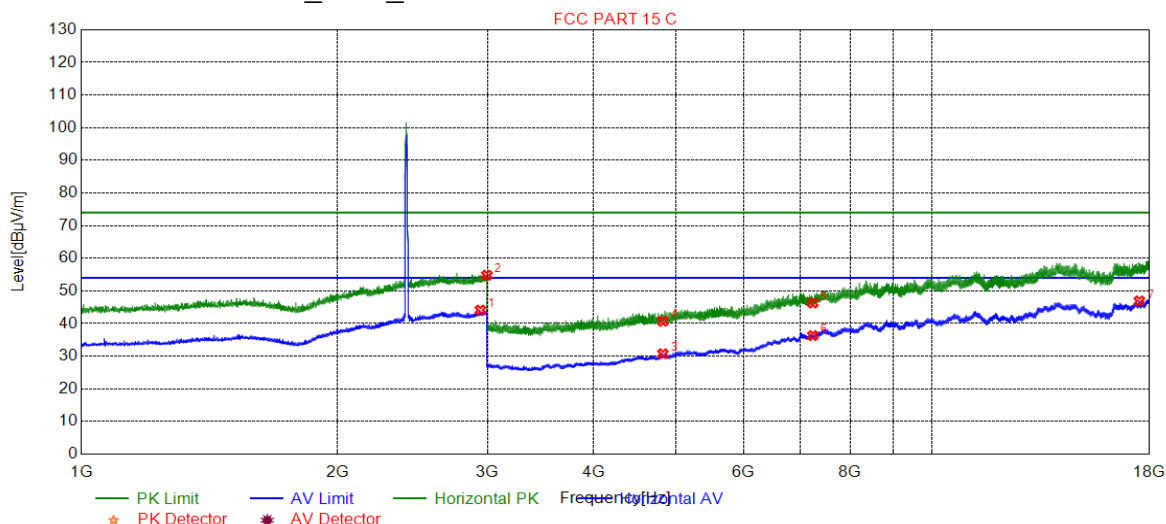
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2.9.2.6 802.11B_CH1_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.98	44.15	9.62	54.00	9.85	150	141	Horizontal
2	2996.49	54.81	9.47	74.00	19.19	150	238	Horizontal
3	4824.00	30.77	-18.21	54.00	23.23	150	348	Horizontal
4	4824.00	40.72	-18.21	74.00	33.28	150	18	Horizontal
5	7236.00	46.33	-9.99	74.00	27.67	150	292	Horizontal
6	7236.00	36.34	-9.99	54.00	17.66	150	292	Horizontal
7	17507.1	46.95	0.95	54.00	7.05	150	242	Horizontal

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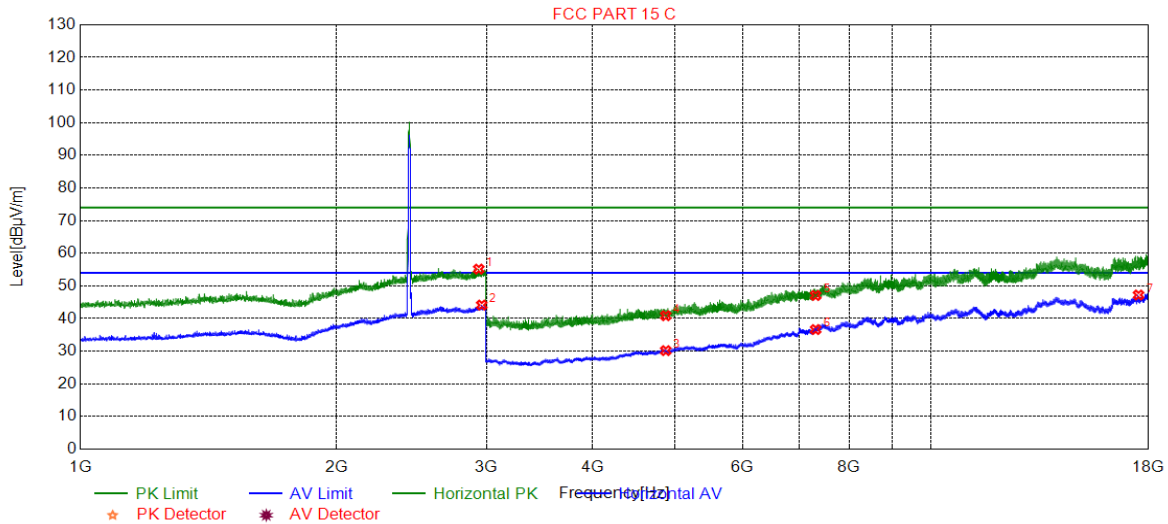
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2.9.2.7 802.11B_CH6_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2938.48	55.16	9.56	74.00	18.84	150	251	Horizontal
2	2962.49	44.14	9.62	54.00	9.86	150	307	Horizontal
3	4874.00	30.19	-17.99	54.00	23.81	150	18	Horizontal
4	4874.00	40.88	-17.99	74.00	33.12	150	318	Horizontal
5	7311.00	47.08	-9.74	74.00	26.92	150	193	Horizontal
6	7311.00	36.65	-9.74	54.00	17.35	150	193	Horizontal
7	17515.4	47.23	0.98	54.00	6.77	150	193	Horizontal

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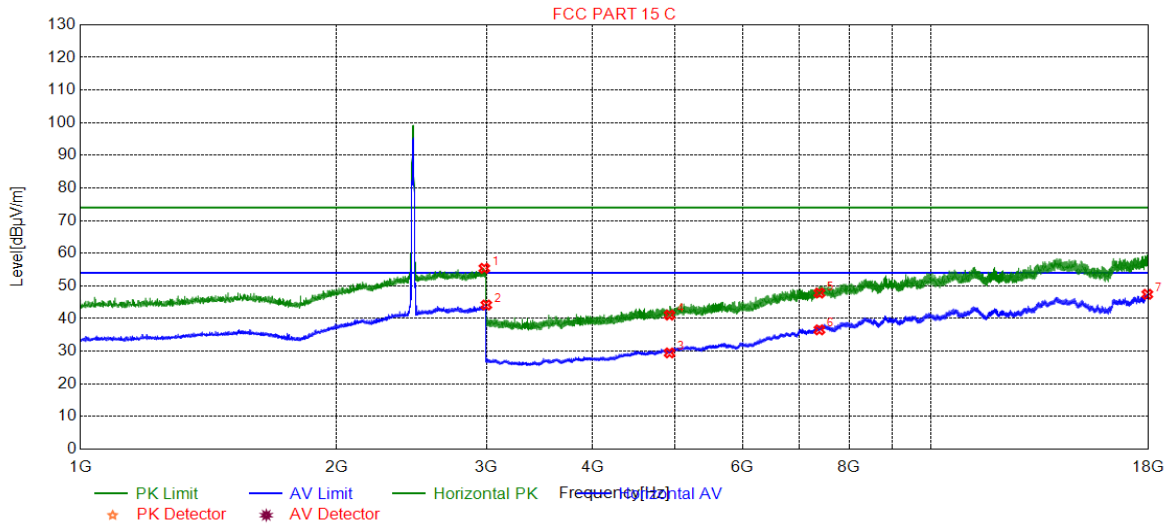
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2.9.2.8 802.11B_CH11_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2982.99	55.41	9.53	74.00	18.59	150	101	Horizontal
2	2998.99	44.17	9.45	54.00	9.83	150	336	Horizontal
3	4924.00	29.48	-17.72	54.00	24.52	150	321	Horizontal
4	4924.00	41.07	-17.72	74.00	32.93	150	74	Horizontal
5	7386.00	47.83	-9.55	74.00	26.17	150	242	Horizontal
6	7386.00	36.56	-9.55	54.00	17.44	150	242	Horizontal
7	17937.2	47.45	0.70	54.00	6.55	150	342	Horizontal

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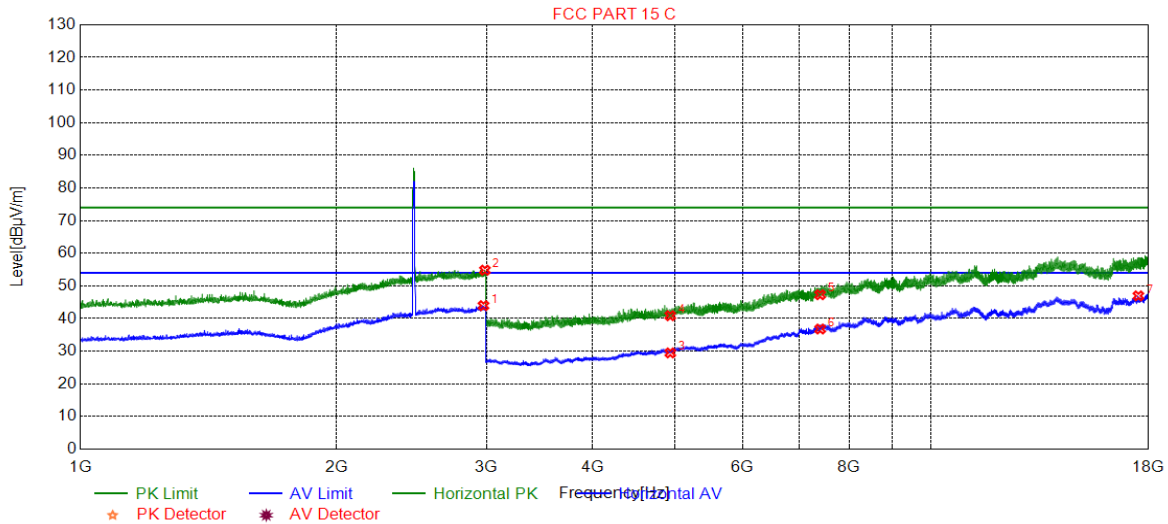
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2.9.2.9 802.11B_CH12_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2976.49	43.96	9.56	54.00	10.04	150	239	Horizontal
2	2987.99	54.83	9.51	74.00	19.17	150	18	Horizontal
3	4934.00	29.49	-17.65	54.00	24.51	150	100	Horizontal
4	4934.00	40.89	-17.65	74.00	33.11	150	321	Horizontal
5	7401.00	47.31	-9.50	74.00	26.69	150	41	Horizontal
6	7401.00	36.81	-9.50	54.00	17.19	150	191	Horizontal
7	17508.8	46.96	0.95	54.00	7.04	150	191	Horizontal

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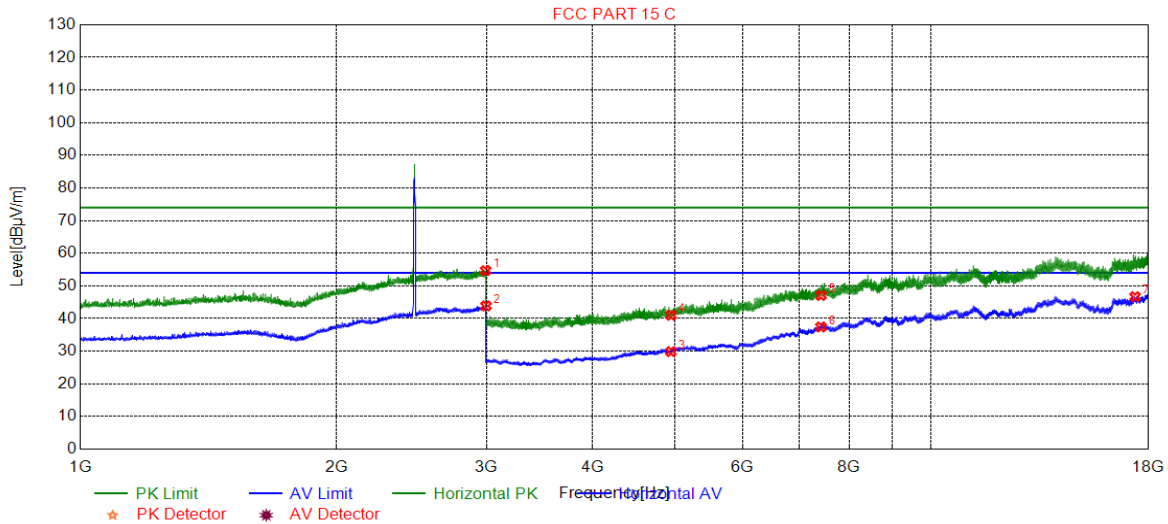
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2.9.2.10 802.11B_CH13_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2993.49	54.70	9.48	74.00	19.30	150	128	Horizontal
2	2996.99	43.88	9.46	54.00	10.12	150	252	Horizontal
3	4944.00	29.89	-17.58	54.00	24.11	150	293	Horizontal
4	4944.00	41.04	-17.58	74.00	32.96	150	238	Horizontal
5	7416.00	47.09	-9.44	74.00	26.91	150	40	Horizontal
6	7416.00	37.44	-9.44	54.00	16.56	150	90	Horizontal
7	17352.6	46.72	0.05	54.00	7.28	150	342	Horizontal

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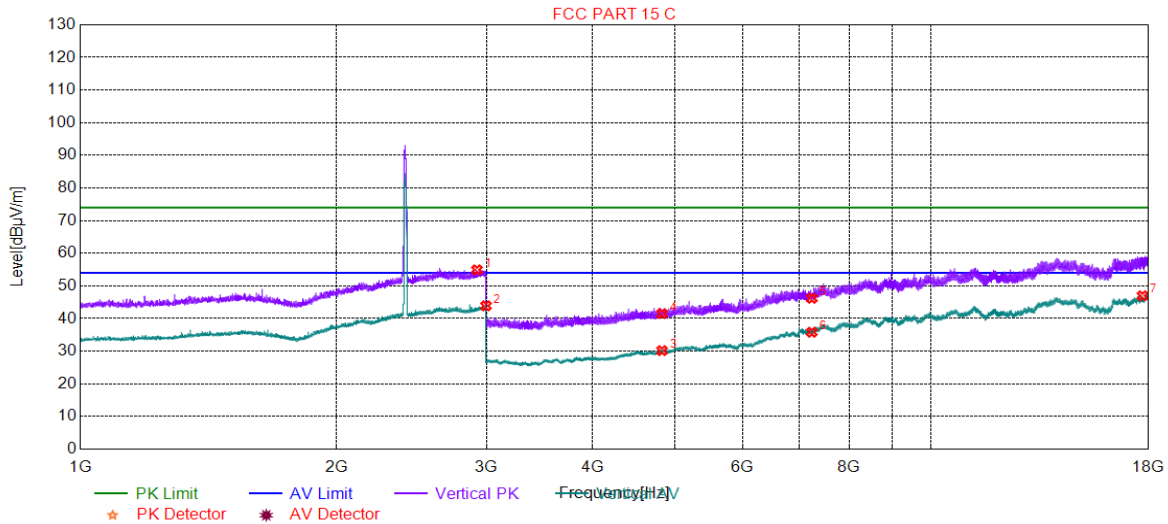
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2.9.2.11 802.11G_CH1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2923.98	54.93	9.40	74.00	19.07	150	314	Vertical
2	2996.99	43.91	9.46	54.00	10.09	150	245	Vertical
3	4824.00	30.19	-18.21	54.00	23.81	150	100	Vertical
4	4824.00	41.53	-18.21	74.00	32.47	150	320	Vertical
5	7236.00	46.23	-9.99	74.00	27.77	150	92	Vertical
6	7236.00	35.83	-9.99	54.00	18.17	150	92	Vertical
7	17702.4	46.99	1.31	54.00	7.01	150	0	Vertical

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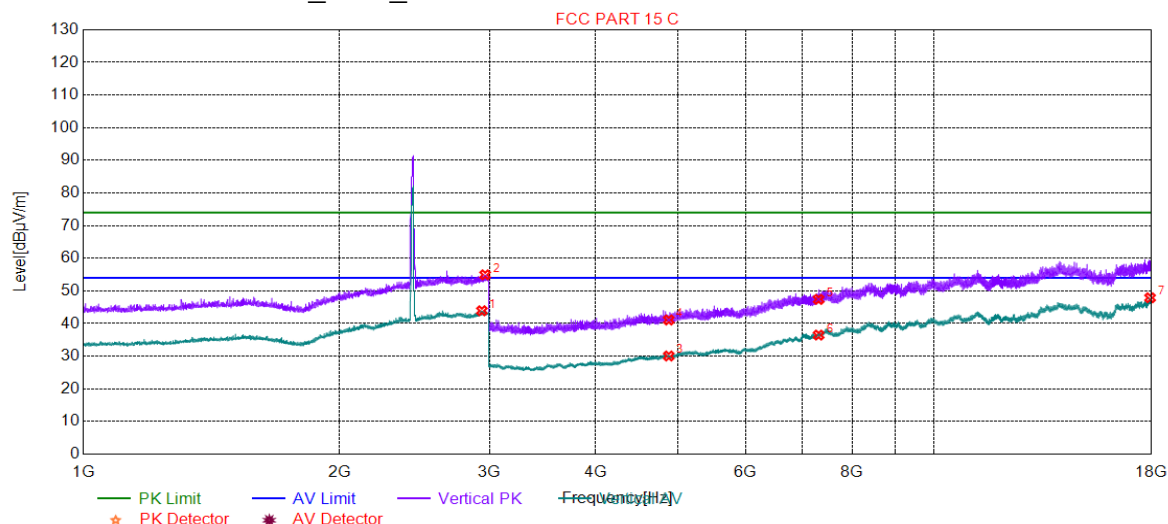
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2.9.2.12 802.11G_CH6_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2939.48	43.93	9.57	54.00	10.07	150	247	Vertical
2	2965.49	54.95	9.61	74.00	19.05	150	206	Vertical
3	4874.00	30.08	-17.99	54.00	23.92	150	100	Vertical
4	4874.00	41.11	-17.99	74.00	32.89	150	319	Vertical
5	7311.00	47.42	-9.74	74.00	26.58	150	41	Vertical
6	7311.00	36.48	-9.74	54.00	17.52	150	41	Vertical
7	17925.7	47.91	0.70	54.00	6.09	150	0	Vertical

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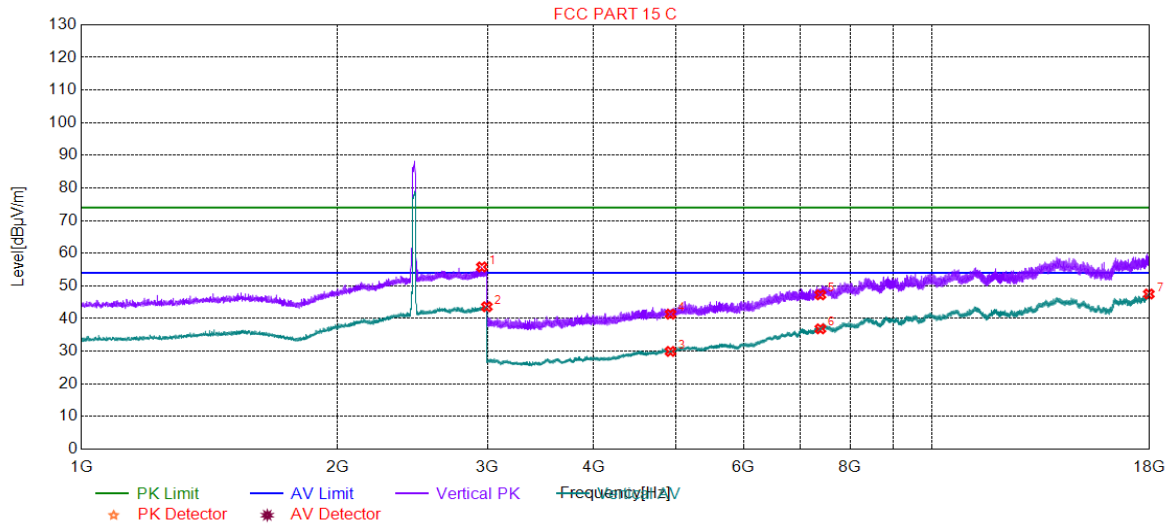
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2.9.2.13 802.11G_CH11_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2955.48	55.82	9.65	74.00	18.18	150	329	Vertical
2	2995.49	43.63	9.47	54.00	10.37	150	262	Vertical
3	4924.00	29.95	-17.72	54.00	24.05	150	46	Vertical
4	4924.00	41.36	-17.72	74.00	32.64	150	18	Vertical
5	7386.00	47.28	-9.55	74.00	26.72	150	0	Vertical
6	7386.00	36.87	-9.55	54.00	17.13	150	342	Vertical
7	17961.4	47.53	0.71	54.00	6.47	150	241	Vertical

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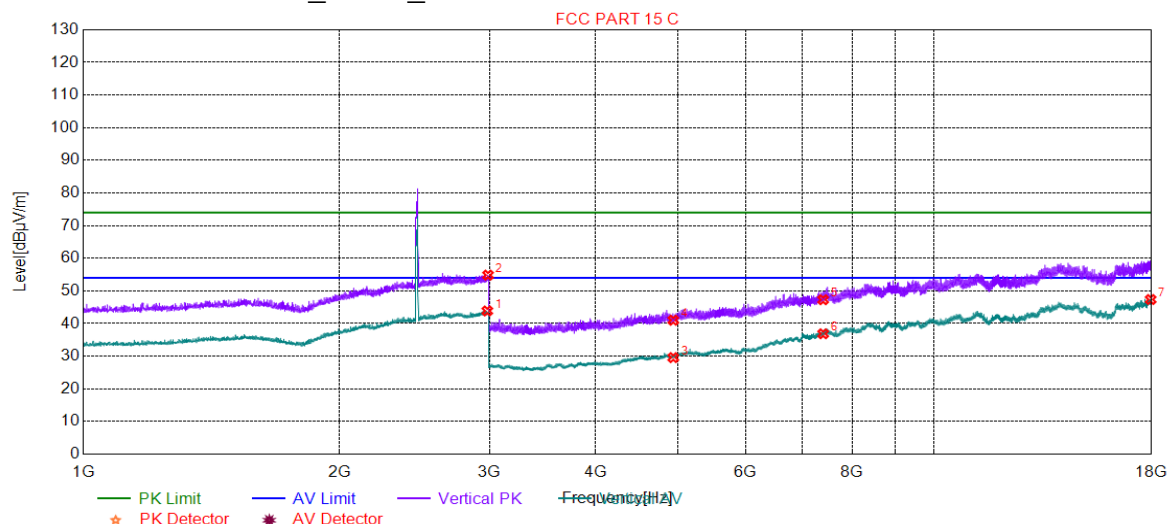
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2.9.2.14 802.11G_CH12_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2982.99	43.88	9.53	54.00	10.12	150	342	Vertical
2	2988.99	54.86	9.50	74.00	19.14	150	80	Vertical
3	4934.00	29.59	-17.65	54.00	24.41	150	45	Vertical
4	4934.00	41.04	-17.65	74.00	32.96	150	45	Vertical
5	7401.00	47.31	-9.50	74.00	26.69	150	242	Vertical
6	7401.00	36.88	-9.50	54.00	17.12	150	342	Vertical
7	17953.7	47.38	0.71	54.00	6.62	150	292	Vertical

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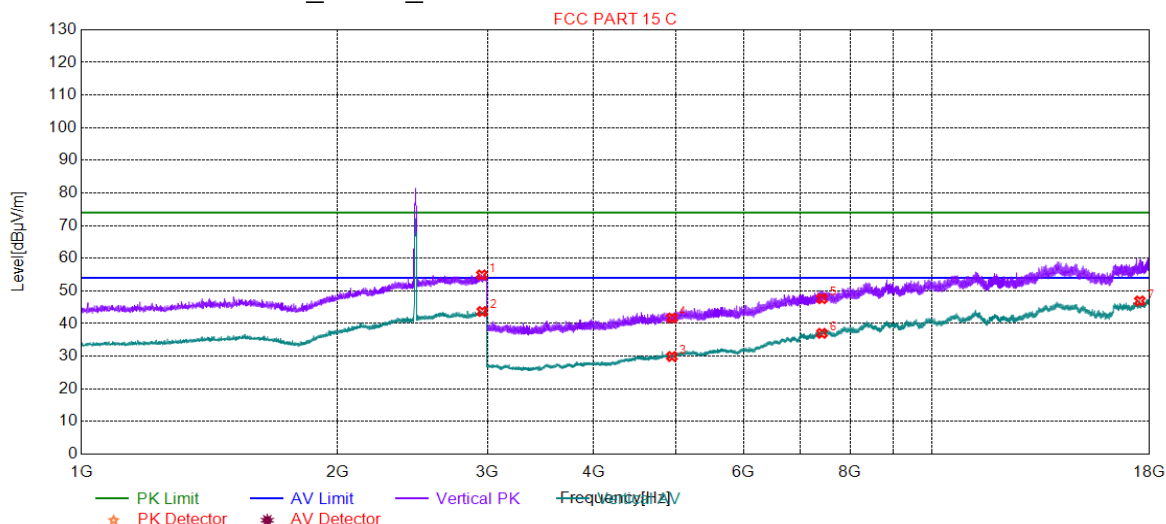
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2.9.2.15 802.11G_CH13_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.98	54.91	9.66	74.00	19.09	150	95	Vertical
2	2958.48	43.71	9.64	54.00	10.29	150	151	Vertical
3	4944.00	29.93	-17.58	54.00	24.07	150	347	Vertical
4	4944.00	41.72	-17.58	74.00	32.28	150	210	Vertical
5	7416.00	47.64	-9.44	74.00	26.36	150	342	Vertical
6	7416.00	37.02	-9.44	54.00	16.98	150	42	Vertical
7	17530.8	46.94	1.04	54.00	7.06	150	0	Vertical

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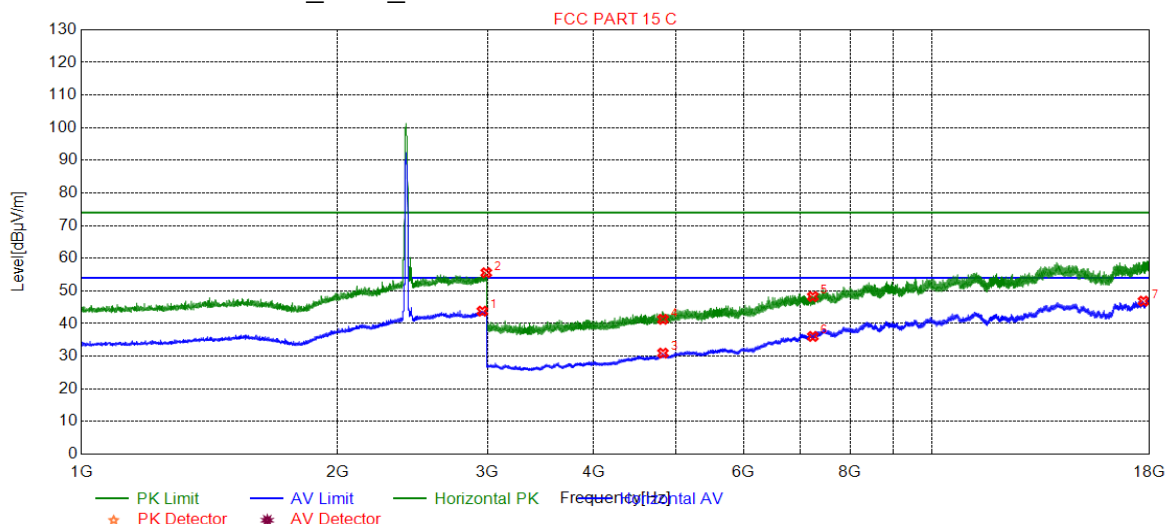
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2.9.2.16 802.11G_CH1_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2959.48	43.81	9.64	54.00	10.19	150	46	Horizontal
2	2990.99	55.58	9.49	74.00	18.42	150	253	Horizontal
3	4824.00	30.97	-18.21	54.00	23.03	150	18	Horizontal
4	4824.00	41.31	-18.21	74.00	32.69	150	18	Horizontal
5	7236.00	48.28	-9.99	74.00	25.72	150	140	Horizontal
6	7236.00	36.07	-9.99	54.00	17.93	150	190	Horizontal
7	17703.5	46.88	1.29	54.00	7.12	150	89	Horizontal

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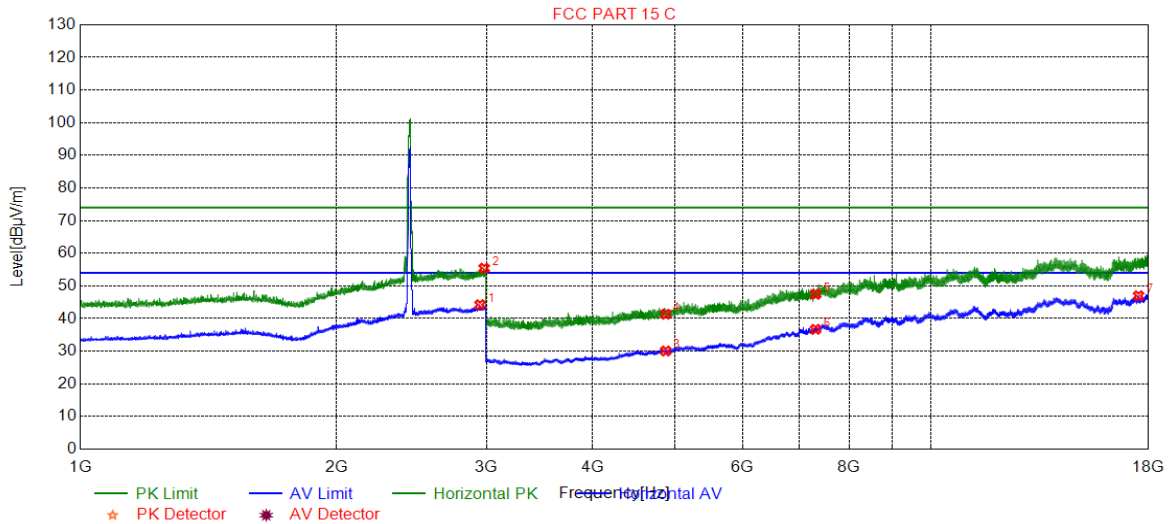
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2.9.2.17 802.11G_CH6_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.48	44.25	9.66	54.00	9.75	150	31	Horizontal
2	2981.99	55.42	9.53	74.00	18.58	150	59	Horizontal
3	4874.00	30.07	-17.99	54.00	23.93	150	101	Horizontal
4	4874.00	41.34	-17.99	74.00	32.66	150	46	Horizontal
5	7311.00	47.46	-9.74	74.00	26.54	150	91	Horizontal
6	7311.00	36.73	-9.74	54.00	17.27	150	0	Horizontal
7	17516.5	46.99	0.98	54.00	7.01	150	241	Horizontal

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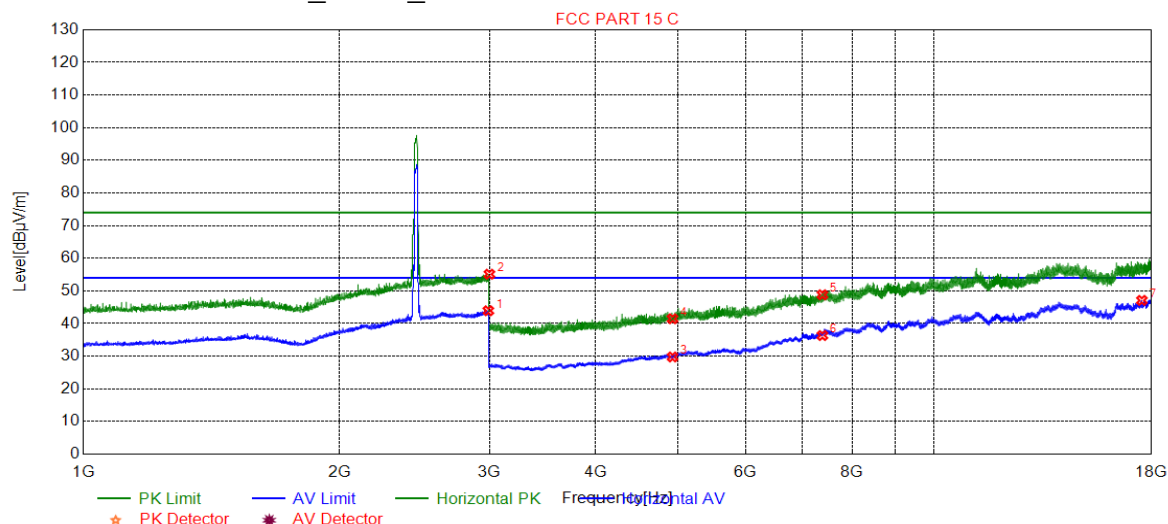
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2.9.2.18 802.11G_CH11_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2991.49	43.93	9.49	54.00	10.07	150	113	Horizontal
2	3000.00	55.14	9.45	74.00	18.86	150	18	Horizontal
3	4924.00	29.78	-17.72	54.00	24.22	150	155	Horizontal
4	4924.00	41.48	-17.72	74.00	32.52	150	155	Horizontal
5	7386.00	48.83	-9.55	74.00	25.17	150	41	Horizontal
6	7386.00	36.35	-9.55	54.00	17.65	150	342	Horizontal
7	17530.8	47.11	1.04	54.00	6.89	150	242	Horizontal

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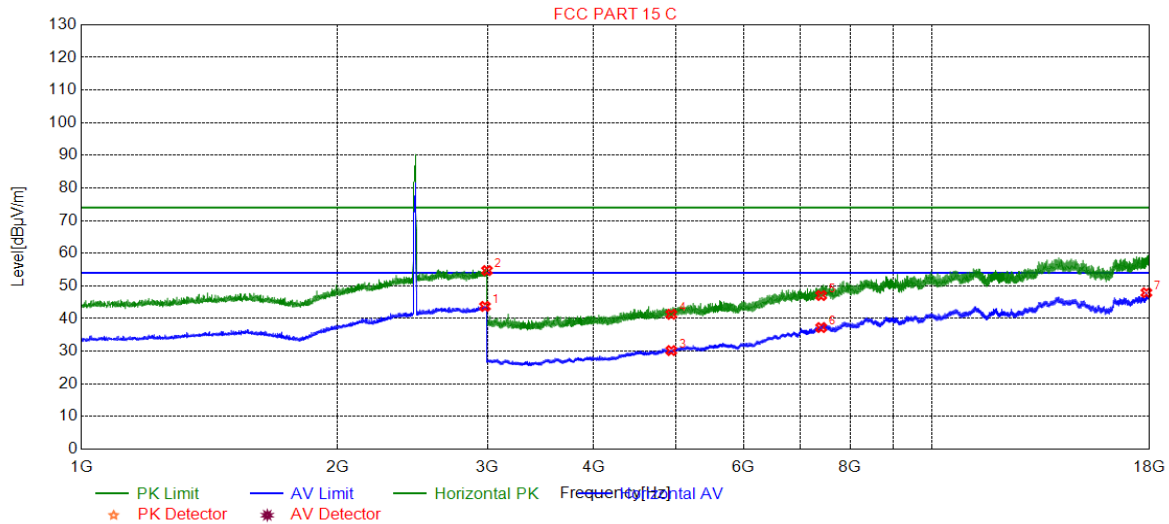
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2.9.2.19 802.11G_CH12_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.49	43.74	9.54	54.00	10.26	150	254	Horizontal
2	2996.49	54.71	9.47	74.00	19.29	150	157	Horizontal
3	4934.00	30.21	-17.65	54.00	23.79	150	45	Horizontal
4	4934.00	41.32	-17.65	74.00	32.68	150	319	Horizontal
5	7401.00	47.07	-9.50	74.00	26.93	150	91	Horizontal
6	7401.00	37.26	-9.50	54.00	16.74	150	342	Horizontal
7	17844.3	47.93	-0.04	54.00	6.07	150	91	Horizontal

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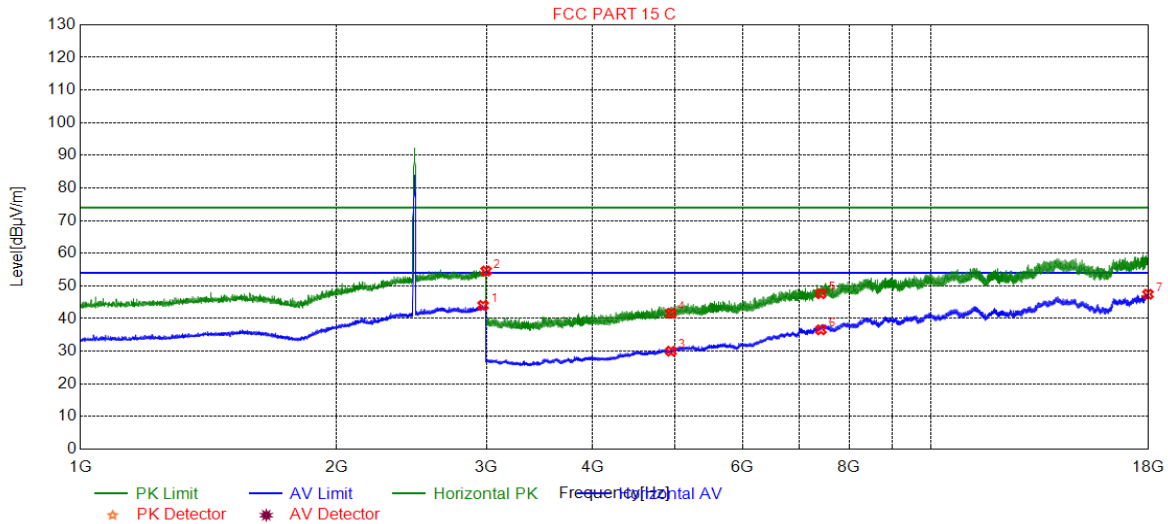
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2.9.2.20 802.11G_CH13_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.49	44.04	9.57	54.00	9.96	150	182	Horizontal
2	2997.49	54.57	9.46	74.00	19.43	150	155	Horizontal
3	4944.00	30.02	-17.58	54.00	23.98	150	154	Horizontal
4	4944.00	41.64	-17.58	74.00	32.36	150	209	Horizontal
5	7416.00	47.63	-9.44	74.00	26.37	150	140	Horizontal
6	7416.00	36.57	-9.44	54.00	17.43	150	0	Horizontal
7	17968.0	47.47	0.71	54.00	6.53	150	39	Horizontal

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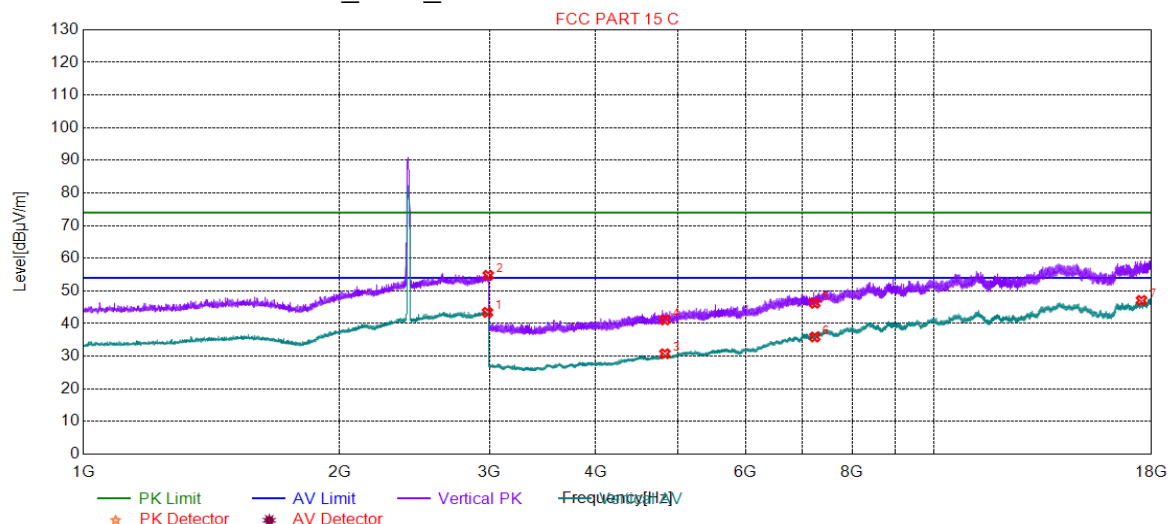
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2.9.2.21 802.11N20_CH1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2984.49	43.44	9.52	54.00	10.56	150	342	Vertical
2	2990.99	54.77	9.49	74.00	19.23	150	342	Vertical
3	4824.00	30.77	-18.21	54.00	23.23	150	321	Vertical
4	4824.00	41.13	-18.21	74.00	32.87	150	293	Vertical
5	7236.00	46.24	-9.99	74.00	27.76	150	141	Vertical
6	7236.00	35.91	-9.99	54.00	18.09	150	241	Vertical
7	17513.2	47.11	0.97	54.00	6.89	150	342	Vertical

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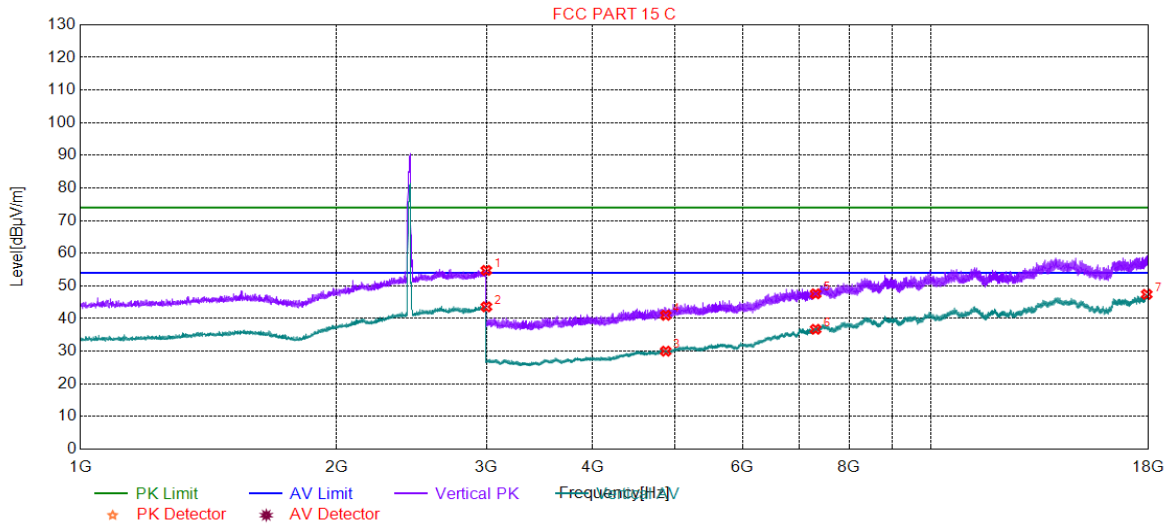
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2.9.2.22 802.11N20_CH6_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2998.99	54.76	9.45	74.00	19.24	150	203	Vertical
2	3000.00	43.60	9.45	54.00	10.40	150	24	Vertical
3	4874.00	30.02	-17.99	54.00	23.98	150	293	Vertical
4	4874.00	41.02	-17.99	74.00	32.98	150	265	Vertical
5	7311.00	47.59	-9.74	74.00	26.41	150	342	Vertical
6	7311.00	36.73	-9.74	54.00	17.27	150	342	Vertical
7	17909.7	47.44	0.69	54.00	6.56	150	292	Vertical

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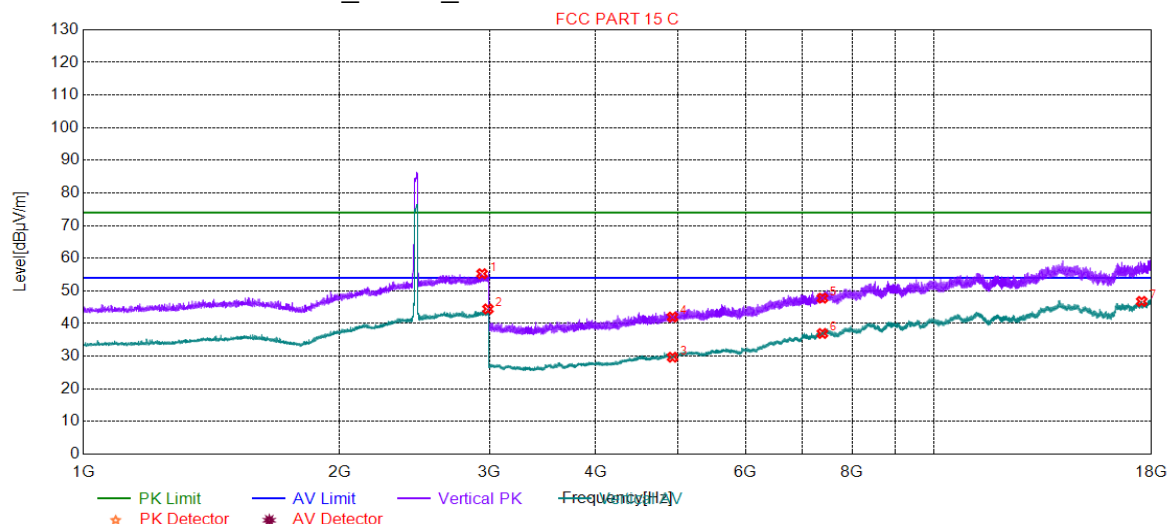
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2.9.2.23 802.11N20_CH11_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2940.98	55.28	9.58	74.00	18.72	150	274	Vertical
2	2988.49	44.48	9.50	54.00	9.52	150	342	Vertical
3	4924.00	29.71	-17.72	54.00	24.29	150	155	Vertical
4	4924.00	42.00	-17.72	74.00	32.00	150	73	Vertical
5	7386.00	47.80	-9.55	74.00	26.20	150	90	Vertical
6	7386.00	36.98	-9.55	54.00	17.02	150	342	Vertical
7	17524.2	46.80	1.01	54.00	7.20	150	342	Vertical

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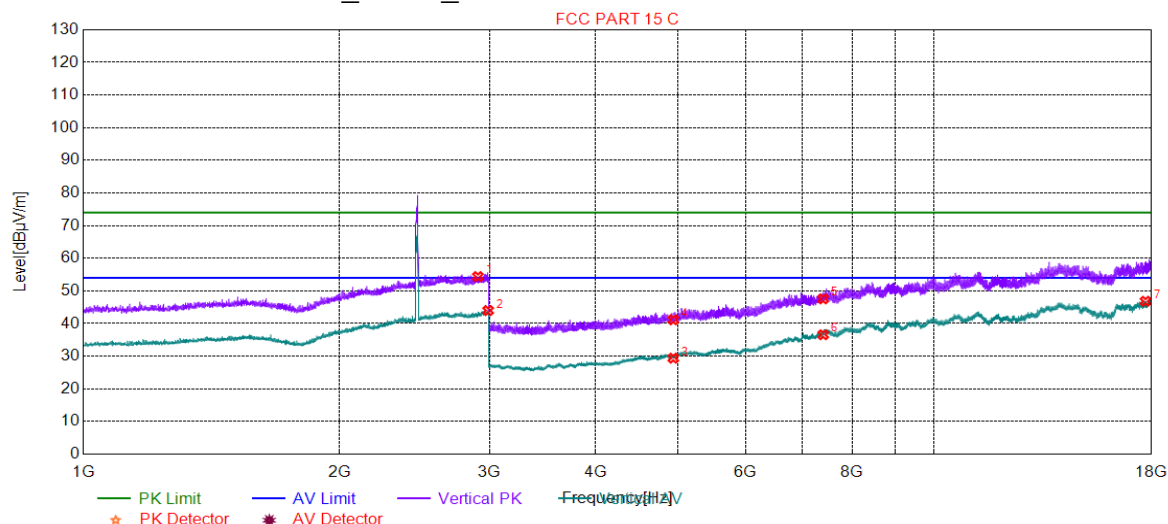
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2.9.2.24 802.11N20_CH12_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2907.97	54.41	9.23	74.00	19.59	150	342	Vertical
2	2989.99	43.99	9.50	54.00	10.01	150	314	Vertical
3	4934.00	29.41	-17.65	54.00	24.59	150	239	Vertical
4	4934.00	41.17	-17.65	74.00	32.83	150	155	Vertical
5	7401.00	47.57	-9.50	74.00	26.43	150	190	Vertical
6	7401.00	36.59	-9.50	54.00	17.41	150	140	Vertical
7	17704.0	46.85	1.28	54.00	7.15	150	0	Vertical

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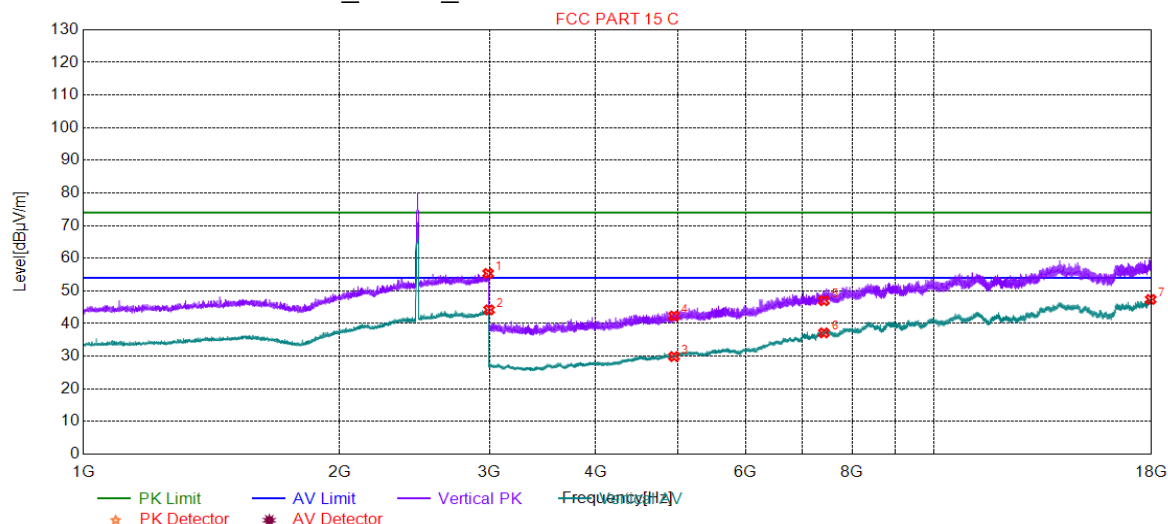
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2.9.2.25 802.11N20_CH13_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2989.49	55.37	9.50	74.00	18.63	150	190	Vertical
2	2997.49	44.21	9.46	54.00	9.79	150	37	Vertical
3	4944.00	29.91	-17.58	54.00	24.09	150	211	Vertical
4	4944.00	42.34	-17.58	74.00	31.66	150	350	Vertical
5	7416.00	47.02	-9.44	74.00	26.98	150	292	Vertical
6	7416.00	37.16	-9.44	54.00	16.84	150	91	Vertical
7	17954.3	47.40	0.71	54.00	6.60	150	342	Vertical

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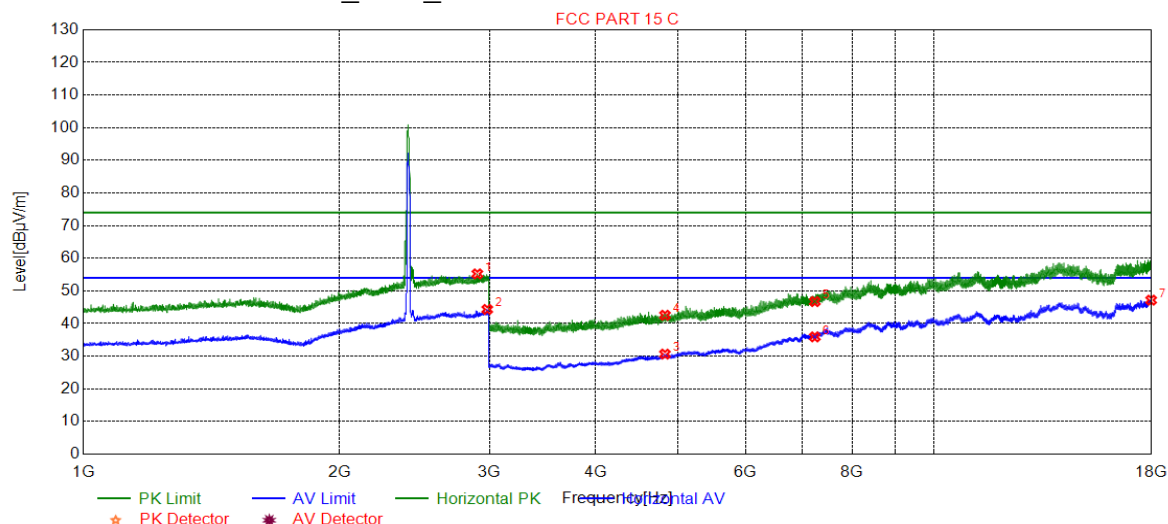
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2.9.2.26 802.11N20_CH1_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2903.47	55.24	9.18	74.00	18.76	150	73	Horizontal
2	2982.49	44.35	9.53	54.00	9.65	150	183	Horizontal
3	4824.00	30.67	-18.21	54.00	23.33	150	18	Horizontal
4	4824.00	42.57	-18.21	74.00	31.43	150	45	Horizontal
5	7236.00	46.75	-9.99	74.00	27.25	150	241	Horizontal
6	7236.00	35.93	-9.99	54.00	18.07	150	141	Horizontal
7	17976.3	47.19	0.71	54.00	6.81	150	91	Horizontal

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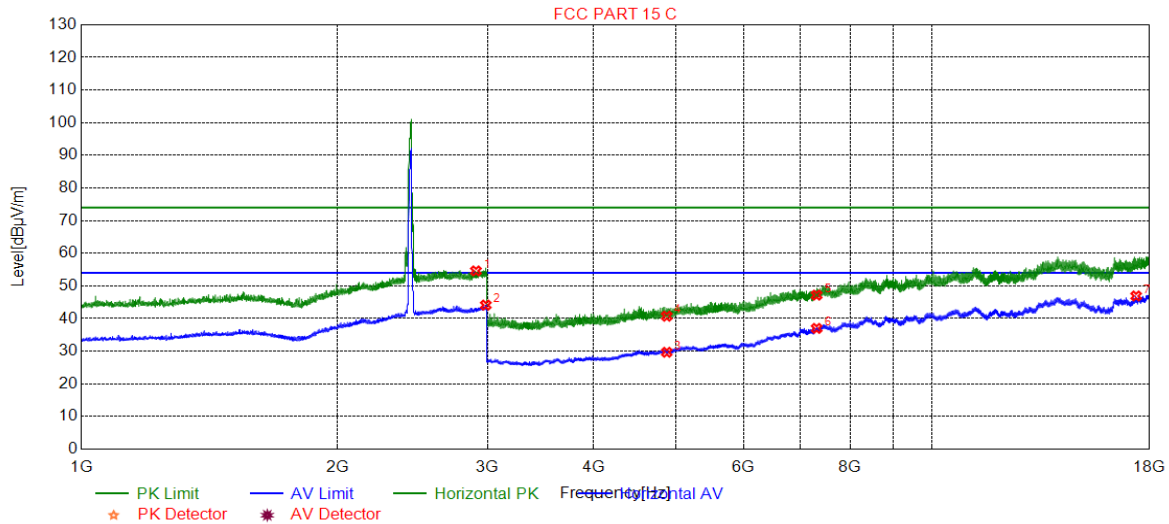
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2.9.2.27 802.11N20_CH6_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2908.47	54.61	9.23	74.00	19.39	150	18	Horizontal
2	2986.99	44.14	9.51	54.00	9.86	150	18	Horizontal
3	4874.00	29.69	-17.99	54.00	24.31	150	210	Horizontal
4	4874.00	40.74	-17.99	74.00	33.26	150	265	Horizontal
5	7311.00	47.19	-9.74	74.00	26.81	150	0	Horizontal
6	7311.00	37.01	-9.74	54.00	16.99	150	342	Horizontal
7	17354.8	46.93	0.06	54.00	7.07	150	42	Horizontal

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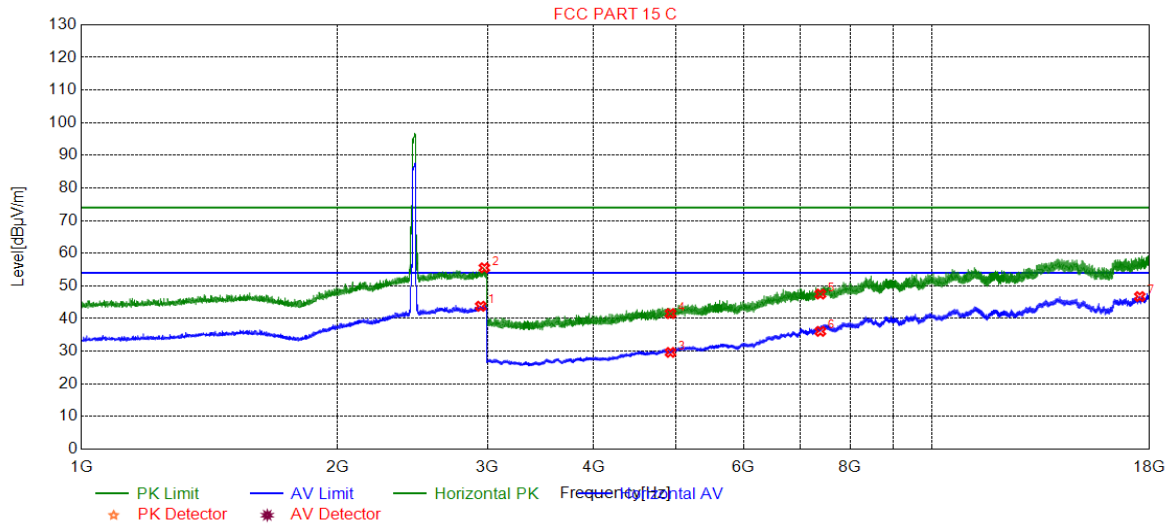
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2.9.2.28 802.11N20_CH11_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.48	43.79	9.64	54.00	10.21	150	278	Horizontal
2	2975.49	55.55	9.56	74.00	18.45	150	292	Horizontal
3	4924.00	29.65	-17.72	54.00	24.35	150	184	Horizontal
4	4924.00	41.54	-17.72	74.00	32.46	150	101	Horizontal
5	7386.00	47.52	-9.55	74.00	26.48	150	0	Horizontal
6	7386.00	36.09	-9.55	54.00	17.91	150	241	Horizontal
7	17528.6	46.75	1.03	54.00	7.25	150	0	Horizontal

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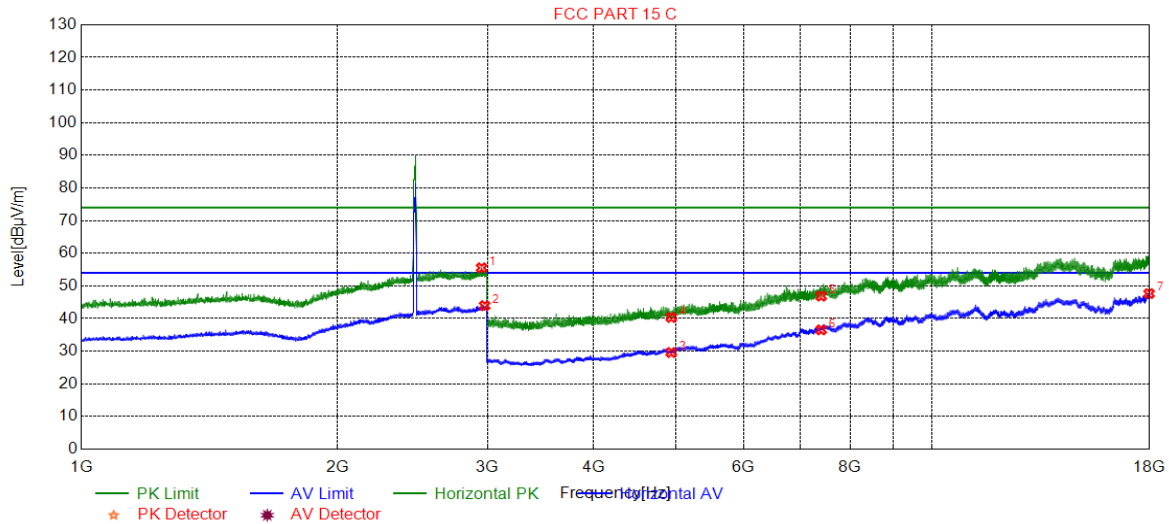
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2.9.2.29 802.11N20_CH12_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2953.48	55.56	9.66	74.00	18.44	150	198	Horizontal
2	2977.99	43.97	9.55	54.00	10.03	150	18	Horizontal
3	4934.00	29.62	-17.65	54.00	24.38	150	321	Horizontal
4	4934.00	40.37	-17.65	74.00	33.63	150	18	Horizontal
5	7401.00	46.89	-9.50	74.00	27.11	150	89	Horizontal
6	7401.00	36.55	-9.50	54.00	17.45	150	291	Horizontal
7	17973.5	47.66	0.71	54.00	6.34	150	140	Horizontal

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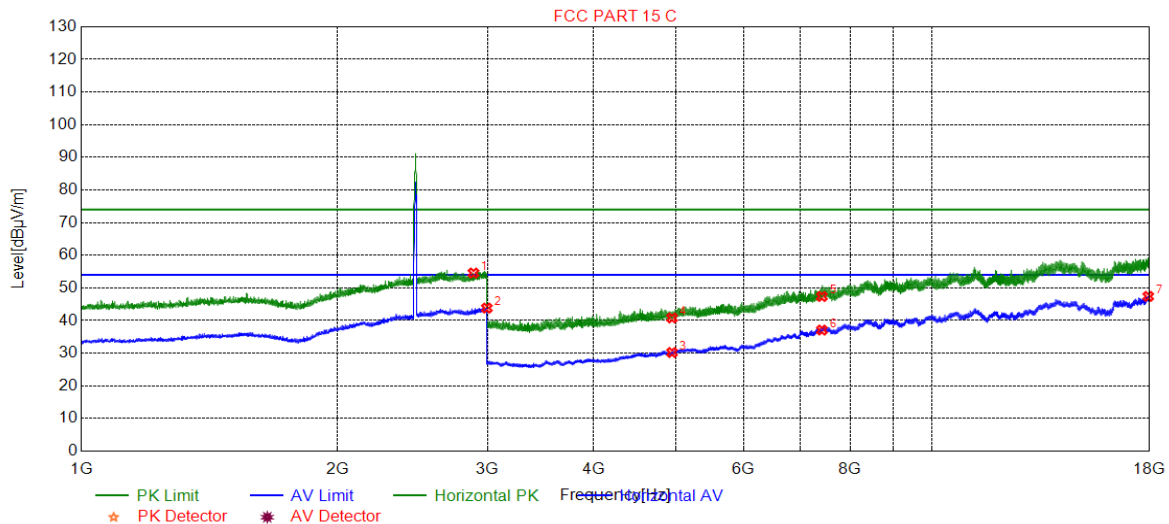
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2.9.2.30 802.11N20_CH13_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2888.97	54.57	9.16	74.00	19.43	150	251	Horizontal
2	2995.49	43.83	9.47	54.00	10.17	150	224	Horizontal
3	4944.00	30.23	-17.58	54.00	23.77	150	237	Horizontal
4	4944.00	40.81	-17.58	74.00	33.19	150	348	Horizontal
5	7416.00	47.39	-9.44	74.00	26.61	150	342	Horizontal
6	7416.00	37.10	-9.44	54.00	16.90	150	342	Horizontal
7	17932.8	47.42	0.70	54.00	6.58	150	241	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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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
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

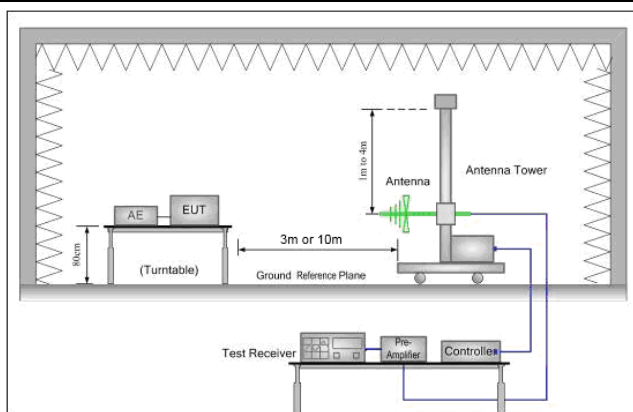


Figure 1. 30MHz to 1GHz

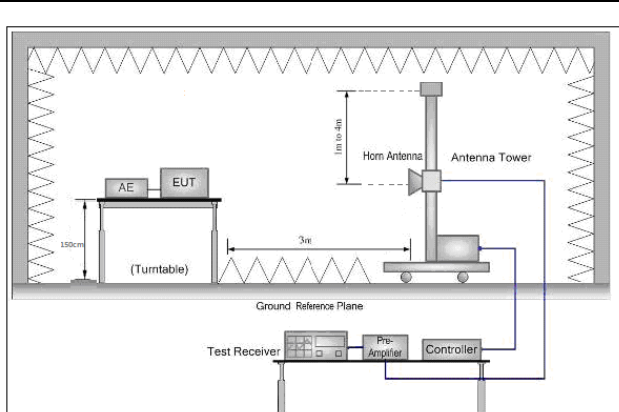


Figure 2. Above 1 GHz

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SGS-CSTC Standards Technical Services Co., Ltd. Xi'an Branch



Report No.: ZR/2020/6001704

Page: 135 of 161

Test Procedure:	<ul style="list-style-type: none"> a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotating table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11B;</p> <p>6Mbps of rate is the worst case of 802.11G ;</p> <p>6.5Mbps of rate is the worst case of 802.11N(HT20);</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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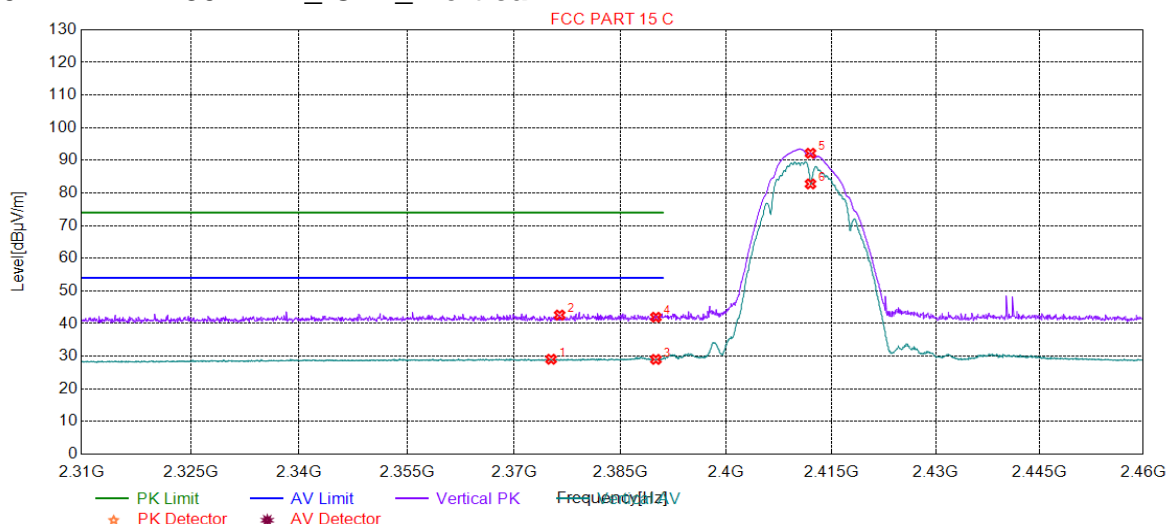
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Test plot as follows:

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	2375.20	29.08	7.78	54.00	24.92	150	51	Vertical
2	2376.40	42.62	7.78	74.00	31.38	150	330	Vertical
3	2390.00	29.03	7.77	54.00	24.97	150	210	Vertical
4	2390.00	41.96	7.77	74.00	32.04	150	330	Vertical
5	2412.00	92.18	7.81	0.00	-92.18	150	346	Vertical
6	2412.00	82.78	7.81	0.00	-82.78	150	346	Vertical

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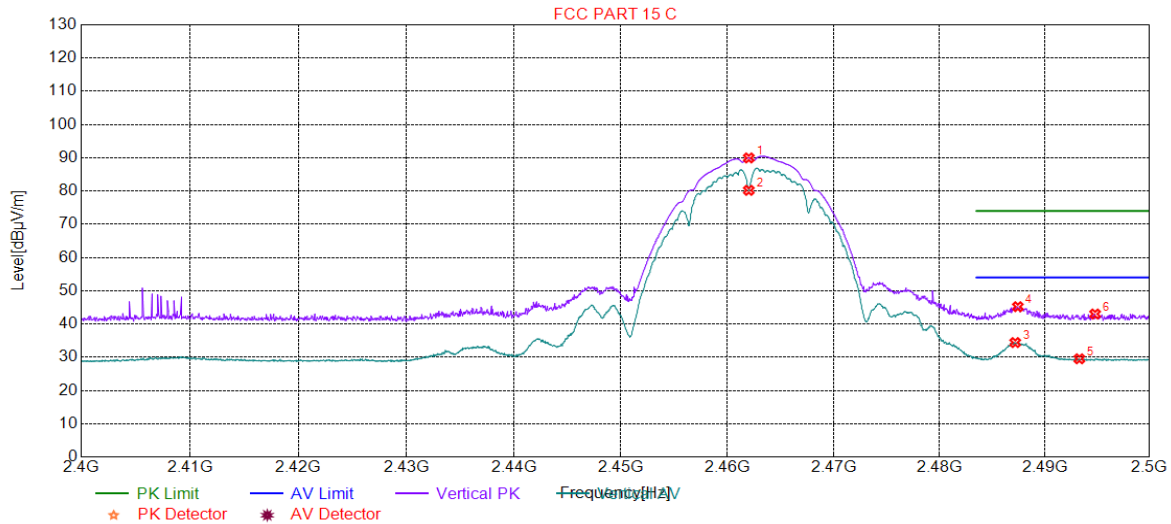
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2.10.1.2 802.11B_ CH11_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	89.96	7.98	0.00	-89.96	150	342	Vertical
2	2462.00	80.22	7.98	0.00	-80.22	150	337	Vertical
3	2487.19	34.44	8.01	54.00	19.56	150	337	Vertical
4	2487.44	45.22	8.01	74.00	28.78	150	337	Vertical
5	2493.29	29.56	8.02	54.00	24.44	150	94	Vertical
6	2494.79	43.03	8.02	74.00	30.97	150	199	Vertical

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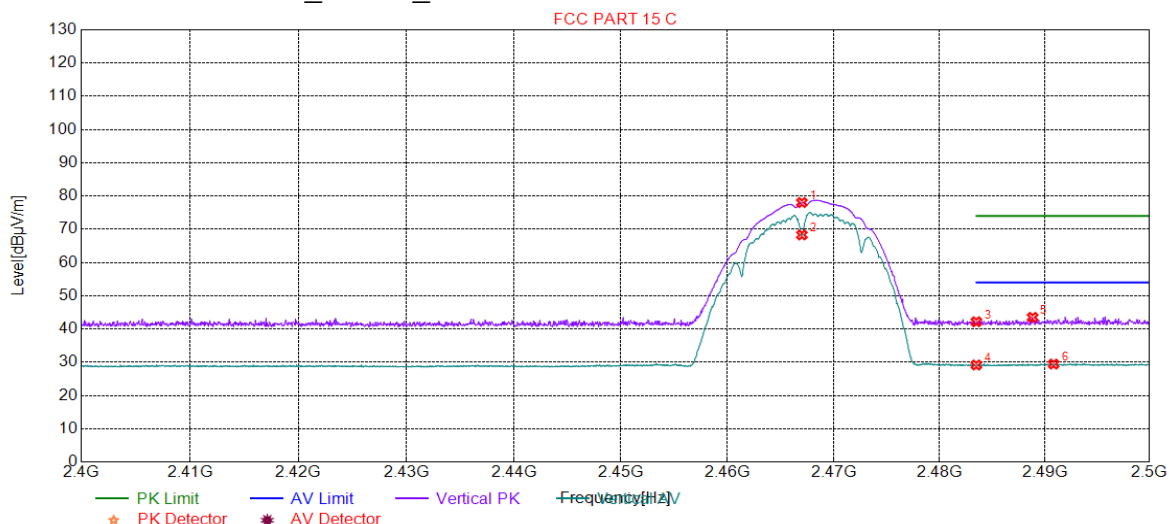
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2.10.1.3 802.11B_ CH12_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	78.05	7.99	0.00	-78.05	150	334	Vertical
2	2467.00	68.31	7.99	0.00	-68.31	150	334	Vertical
3	2483.50	42.21	8.01	74.00	31.79	150	340	Vertical
4	2483.50	29.20	8.01	54.00	24.80	150	168	Vertical
5	2488.84	43.52	8.02	74.00	30.48	150	74	Vertical
6	2490.84	29.48	8.02	54.00	24.52	150	307	Vertical

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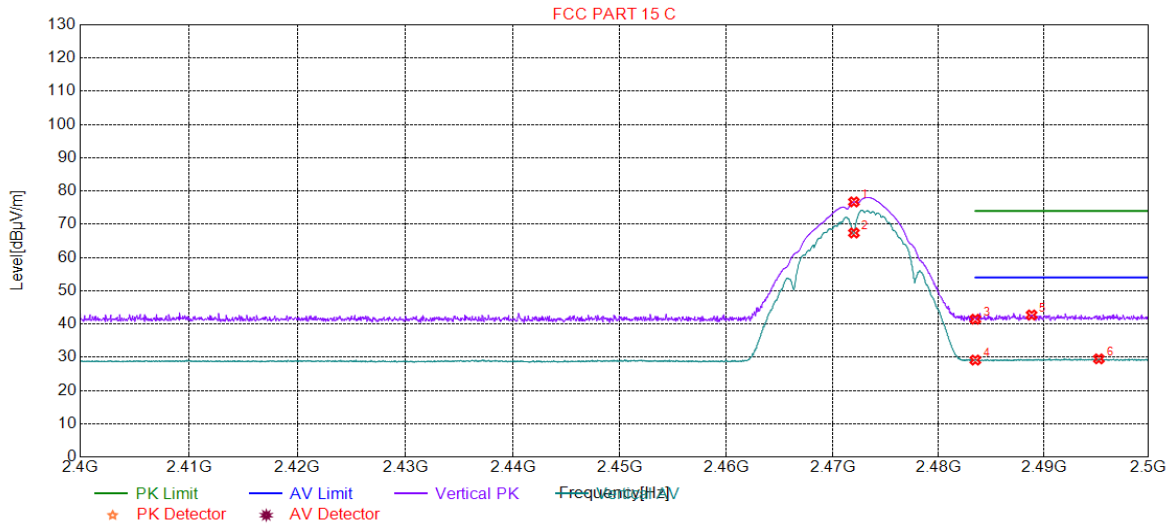
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2.10.1.4 802.11B_ CH13_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	76.74	8.00	0.00	-76.74	150	338	Vertical
2	2472.00	67.40	8.00	0.00	-67.40	150	332	Vertical
3	2483.50	41.46	8.01	74.00	32.54	150	358	Vertical
4	2483.50	29.18	8.01	54.00	24.82	150	173	Vertical
5	2488.84	42.74	8.02	74.00	31.26	150	35	Vertical
6	2495.24	29.54	8.02	54.00	24.46	150	14	Vertical

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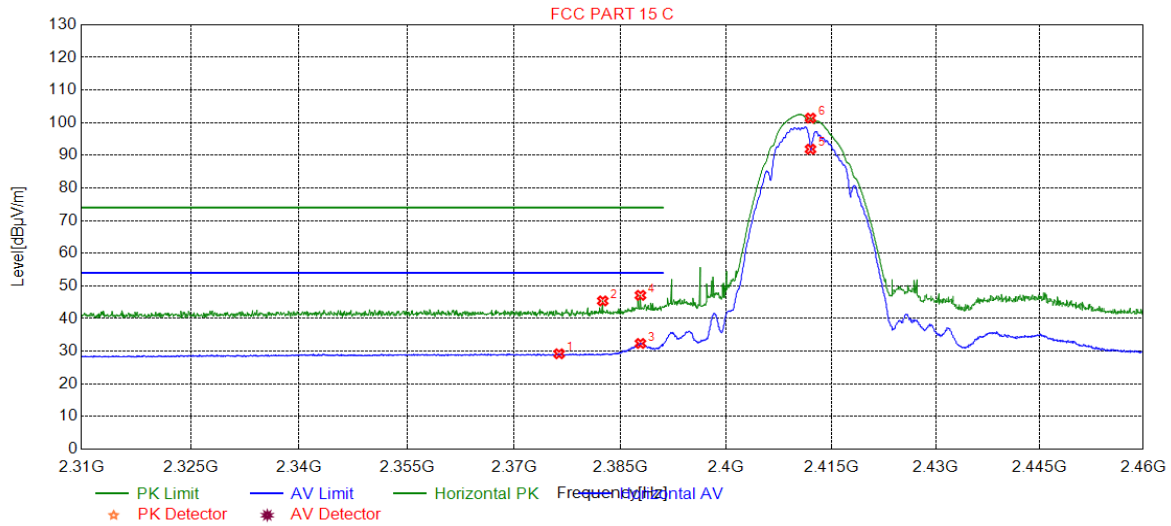
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2.10.1.5 802.11B_CH1_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.33	29.22	7.78	54.00	24.78	150	59	Horizontal
2	2382.48	45.41	7.78	74.00	28.59	150	175	Horizontal
3	2387.81	32.39	7.77	54.00	21.61	150	214	Horizontal
4	2387.81	47.13	7.77	74.00	26.87	150	335	Horizontal
5	2412.00	91.89	7.81	0.00	-91.89	150	203	Horizontal
6	2412.00	101.42	7.81	0.00	-101.42	150	208	Horizontal

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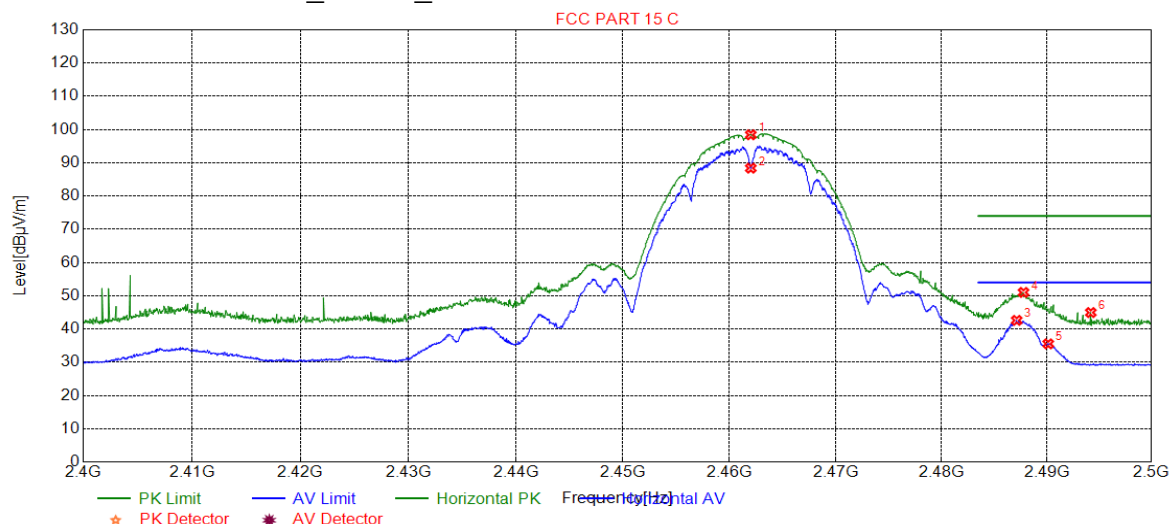
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2.10.1.6 802.11B_CH11_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	98.42	7.98	0.00	-98.42	150	346	Horizontal
2	2462.00	88.38	7.98	0.00	-88.38	150	346	Horizontal
3	2487.14	42.62	8.01	54.00	11.38	150	346	Horizontal
4	2487.79	51.02	8.02	74.00	22.98	150	341	Horizontal
5	2490.14	35.56	8.02	54.00	18.44	150	209	Horizontal
6	2494.19	44.97	8.02	74.00	29.03	150	314	Horizontal

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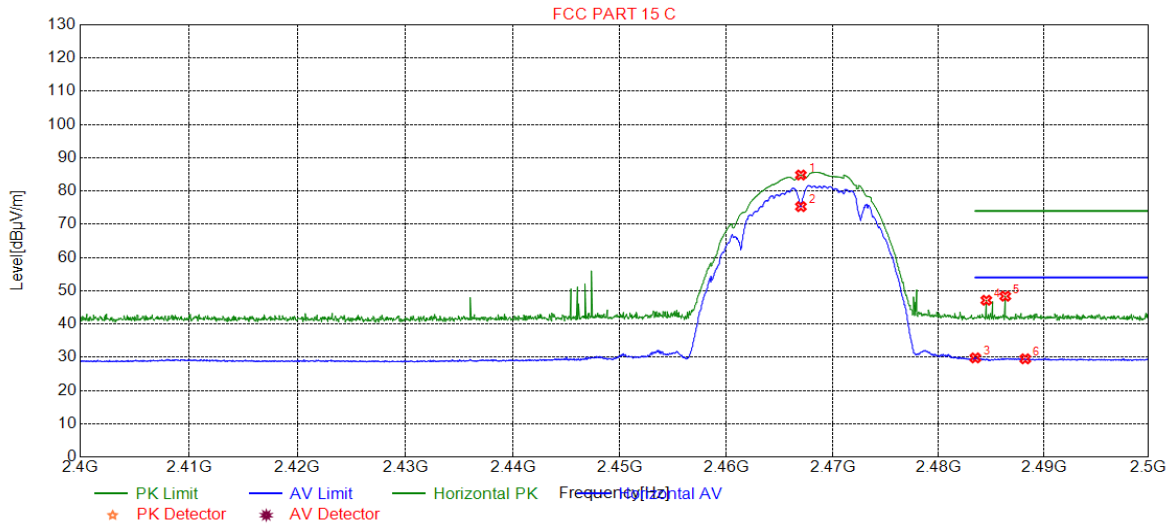
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2.10.1.7 802.11B_ CH12_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	84.82	7.99	0.00	-84.82	150	292	Horizontal
2	2467.00	75.32	7.99	0.00	-75.32	150	292	Horizontal
3	2483.50	29.84	8.01	54.00	24.16	150	292	Horizontal
4	2484.54	47.16	8.01	74.00	26.84	150	313	Horizontal
5	2486.34	48.38	8.01	74.00	25.62	150	313	Horizontal
6	2488.24	29.55	8.02	54.00	24.45	150	346	Horizontal

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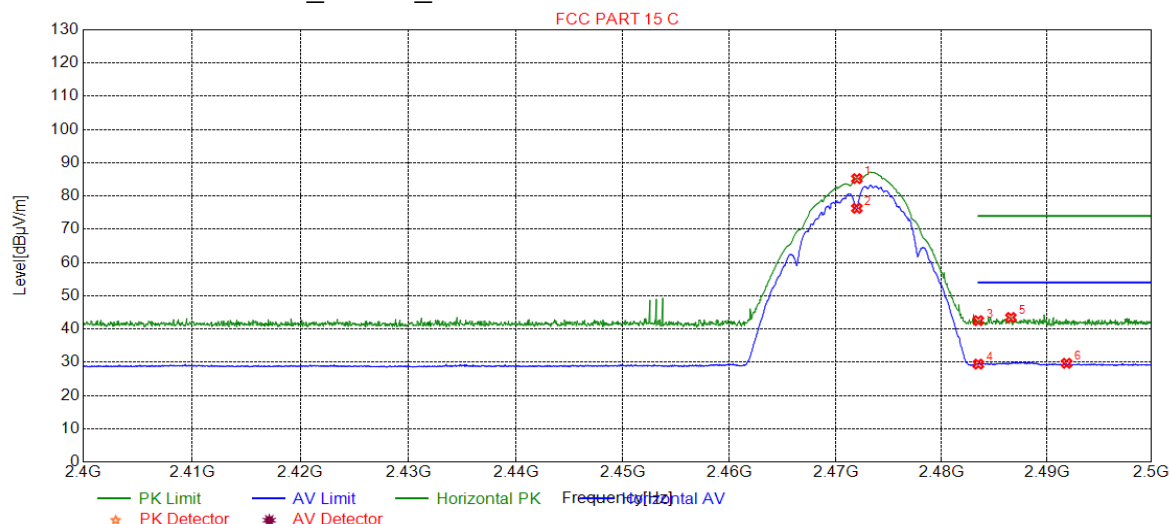
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2.10.1.8 802.11B_ CH13_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	85.24	8.00	0.00	-85.24	150	220	Horizontal
2	2472.00	76.31	8.00	0.00	-76.31	150	209	Horizontal
3	2483.50	42.54	8.01	74.00	31.46	150	264	Horizontal
4	2483.50	29.47	8.01	54.00	24.53	150	297	Horizontal
5	2486.59	43.49	8.01	74.00	30.51	150	104	Horizontal
6	2491.89	29.71	8.02	54.00	24.29	150	330	Horizontal

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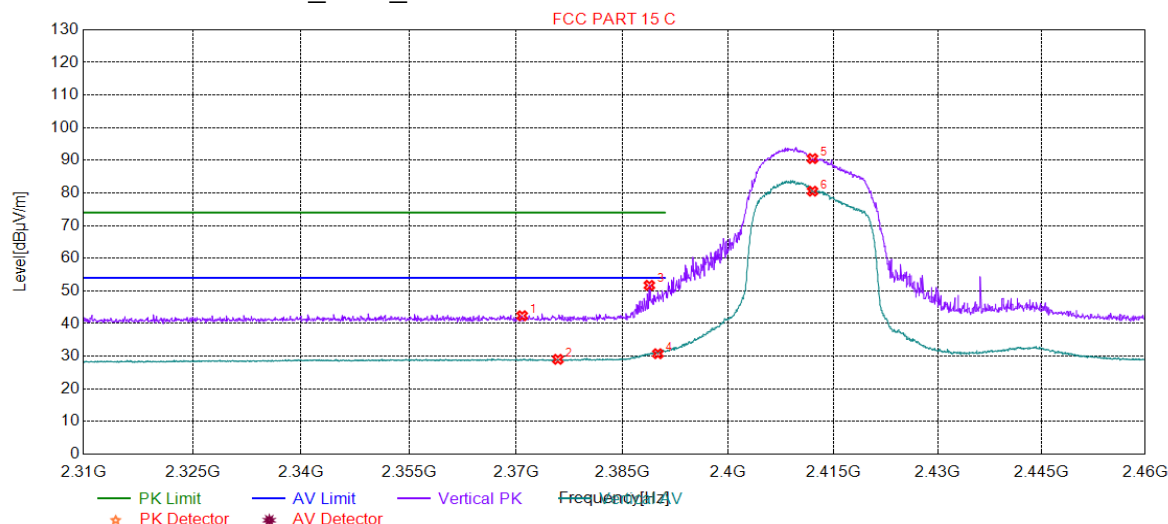
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2.10.1.9 802.11G_CH1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.85	42.41	7.79	74.00	31.59	150	86	Vertical
2	2375.88	29.06	7.78	54.00	24.94	150	30	Vertical
3	2388.78	51.73	7.77	74.00	22.27	150	340	Vertical
4	2390.00	30.78	7.77	54.00	23.22	150	228	Vertical
5	2412.00	90.55	7.81	0.00	-90.55	150	256	Vertical
6	2412.00	80.56	7.81	0.00	-80.56	150	256	Vertical

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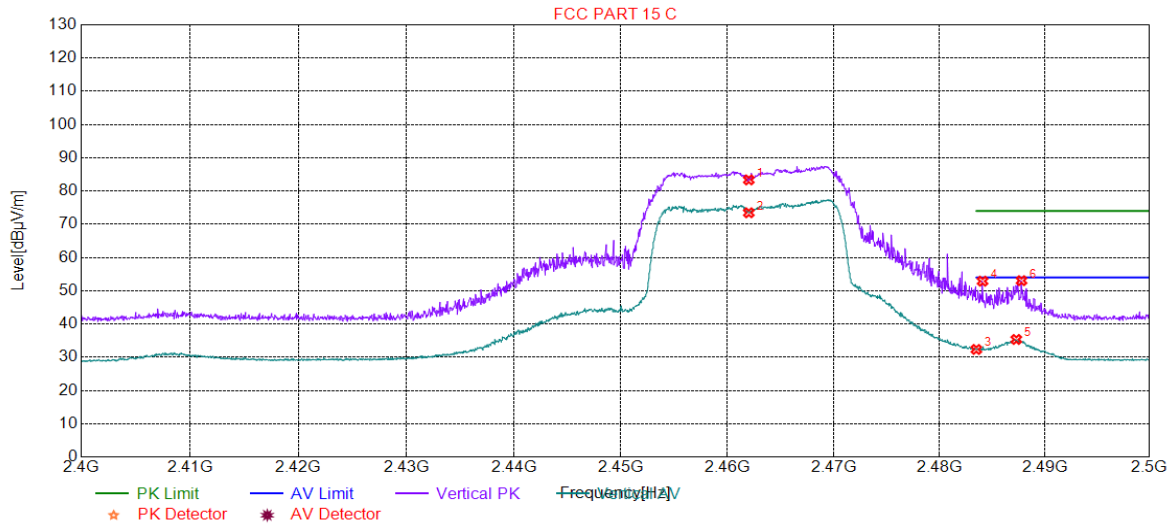
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2.10.1.10 802.11G_CH11_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	83.36	7.98	0.00	-83.36	150	342	Vertical
2	2462.00	73.47	7.98	0.00	-73.47	150	337	Vertical
3	2483.50	32.37	8.01	54.00	21.63	150	337	Vertical
4	2484.09	52.90	8.01	74.00	21.10	150	259	Vertical
5	2487.29	35.38	8.01	54.00	18.62	150	342	Vertical
6	2487.79	53.06	8.02	74.00	20.94	150	14	Vertical

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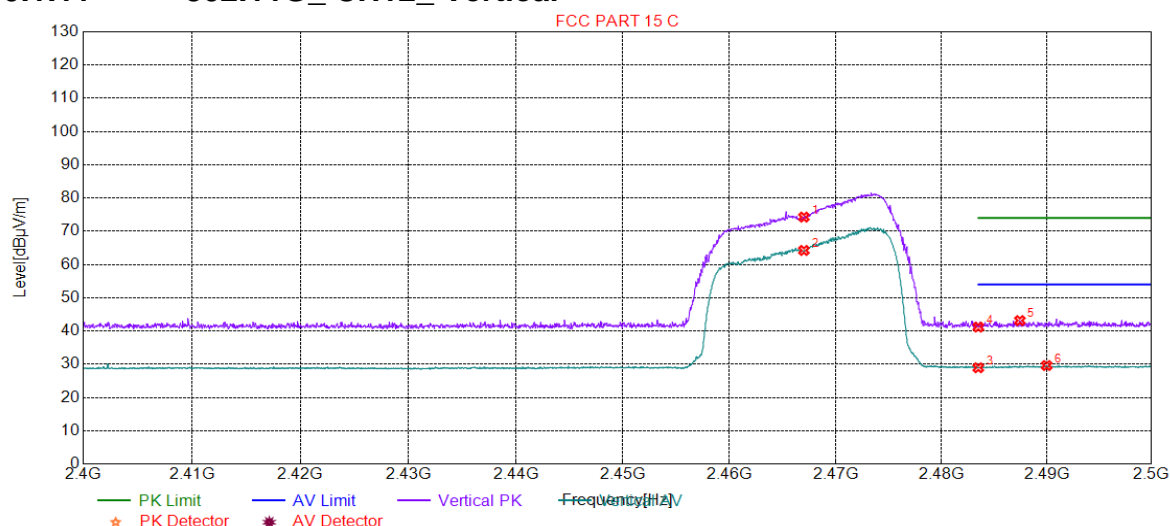
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2.10.1.11 802.11G_CH12_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	74.28	7.99	0.00	-74.28	150	340	Vertical
2	2467.00	64.25	7.99	0.00	-64.25	150	340	Vertical
3	2483.50	28.97	8.01	54.00	25.03	150	14	Vertical
4	2483.50	41.20	8.01	74.00	32.80	150	356	Vertical
5	2487.44	43.16	8.01	74.00	30.84	150	273	Vertical
6	2489.99	29.65	8.02	54.00	24.35	150	212	Vertical

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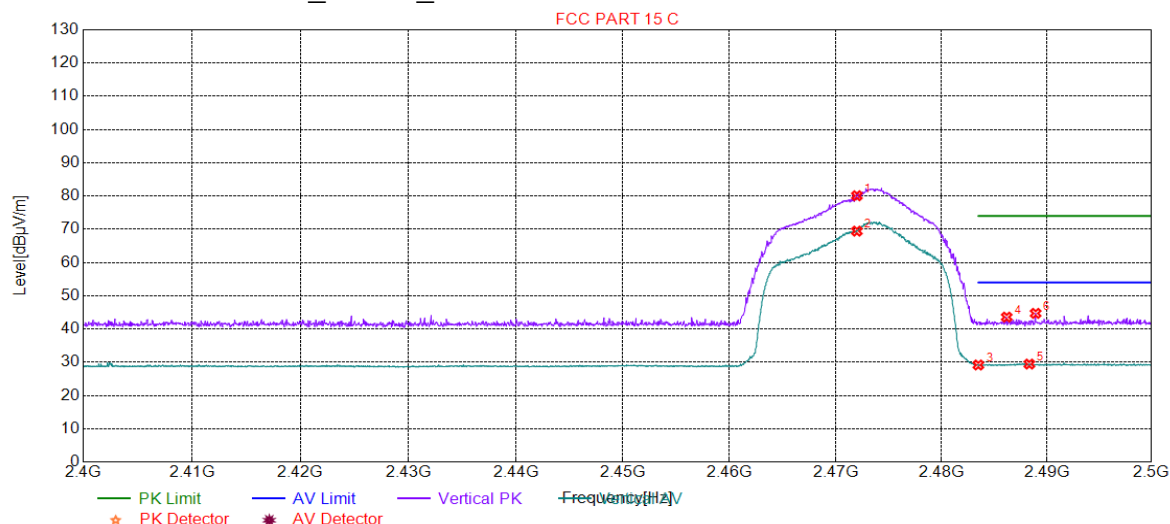
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2.10.1.12 802.11G_CH13_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	80.10	8.00	0.00	-80.10	150	340	Vertical
2	2472.00	69.45	8.00	0.00	-69.45	150	334	Vertical
3	2483.50	29.20	8.01	54.00	24.80	150	356	Vertical
4	2486.19	43.60	8.01	74.00	30.40	150	257	Vertical
5	2488.34	29.48	8.02	54.00	24.52	150	334	Vertical
6	2488.94	44.73	8.02	74.00	29.27	150	14	Vertical

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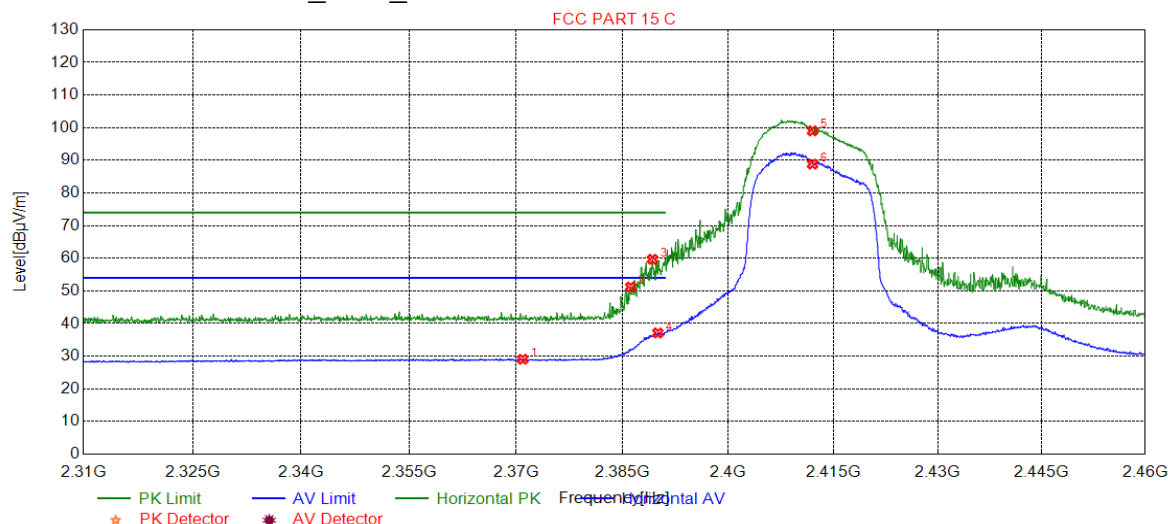
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2.10.1.13 802.11G_CH1_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.93	29.09	7.79	54.00	24.91	150	120	Horizontal
2	2386.16	51.21	7.77	74.00	22.79	150	247	Horizontal
3	2389.23	59.71	7.77	74.00	14.29	150	242	Horizontal
4	2390.00	37.13	7.77	54.00	16.87	150	264	Horizontal
5	2412.00	99.04	7.81	0.00	-99.04	150	258	Horizontal
6	2412.00	88.87	7.81	0.00	-88.87	150	264	Horizontal

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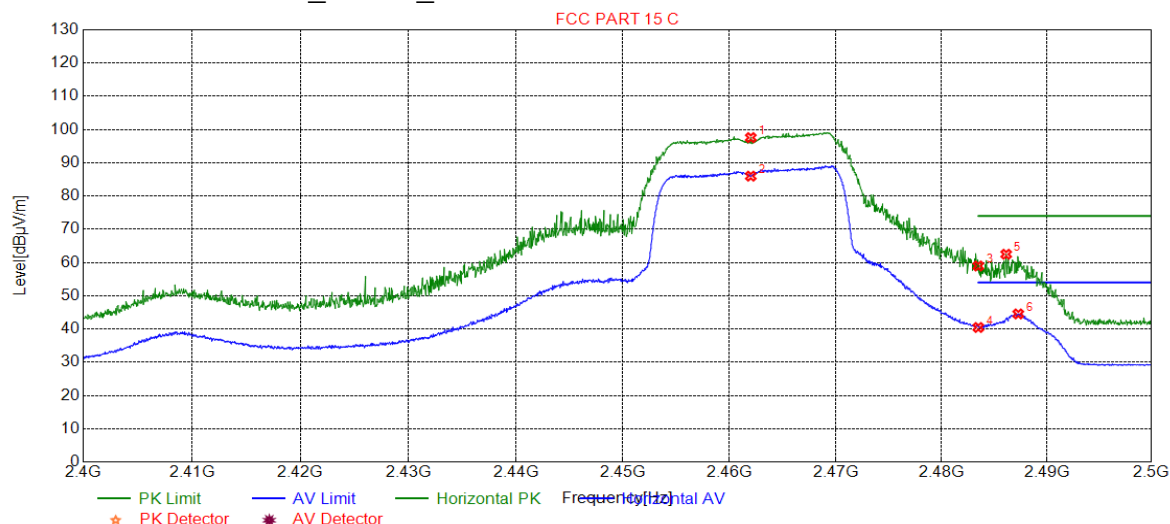
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2.10.1.14 802.11G_CH11_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	97.57	7.98	0.00	-97.57	150	214	Horizontal
2	2462.00	85.99	7.98	0.00	-85.99	150	214	Horizontal
3	2483.50	58.97	8.01	74.00	15.03	150	269	Horizontal
4	2483.50	40.48	8.01	54.00	13.52	150	214	Horizontal
5	2486.14	62.51	8.01	74.00	11.49	150	214	Horizontal
6	2487.29	44.55	8.01	54.00	9.45	150	208	Horizontal

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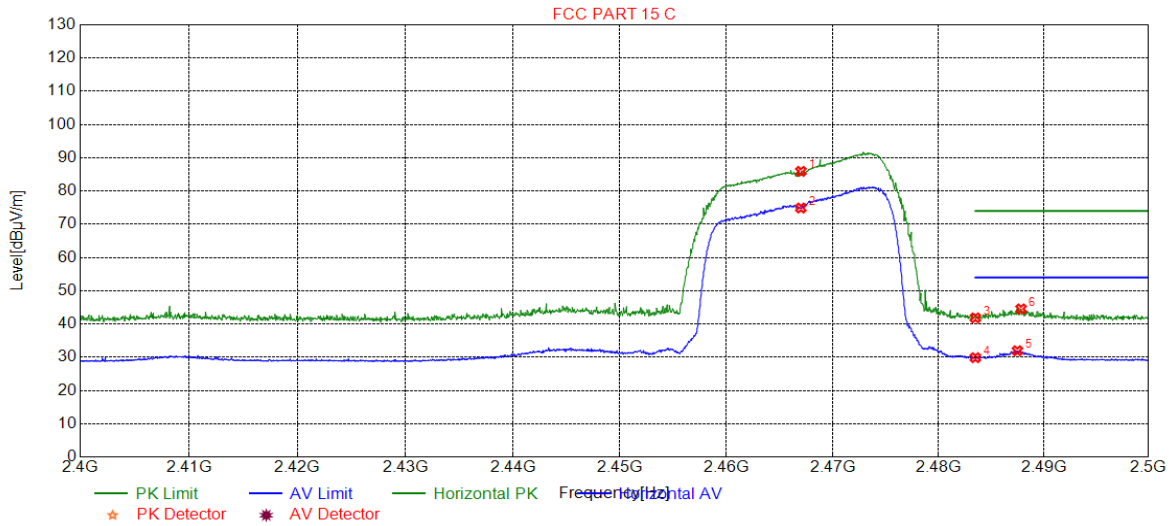
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2.10.1.15 802.11G_CH12_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	85.93	7.99	0.00	-85.93	150	214	Horizontal
2	2467.00	74.90	7.99	0.00	-74.90	150	214	Horizontal
3	2483.50	41.87	8.01	74.00	32.13	150	148	Horizontal
4	2483.50	29.90	8.01	54.00	24.10	150	214	Horizontal
5	2487.49	31.99	8.01	54.00	22.01	150	220	Horizontal
6	2487.84	44.57	8.02	74.00	29.43	150	225	Horizontal

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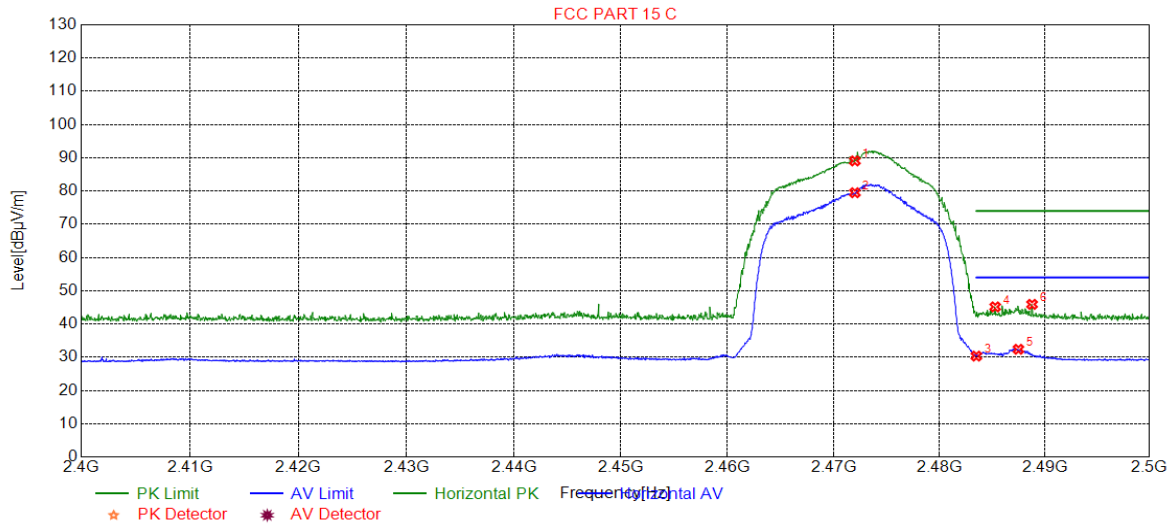
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2.10.1.16 802.11G_CH13_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	89.07	8.00	0.00	-89.07	150	216	Horizontal
2	2472.00	79.50	8.00	0.00	-79.50	150	216	Horizontal
3	2483.50	30.38	8.01	54.00	23.62	150	221	Horizontal
4	2485.29	45.18	8.01	74.00	28.82	150	346	Horizontal
5	2487.49	32.42	8.01	54.00	21.58	150	216	Horizontal
6	2488.79	45.93	8.02	74.00	28.07	150	177	Horizontal

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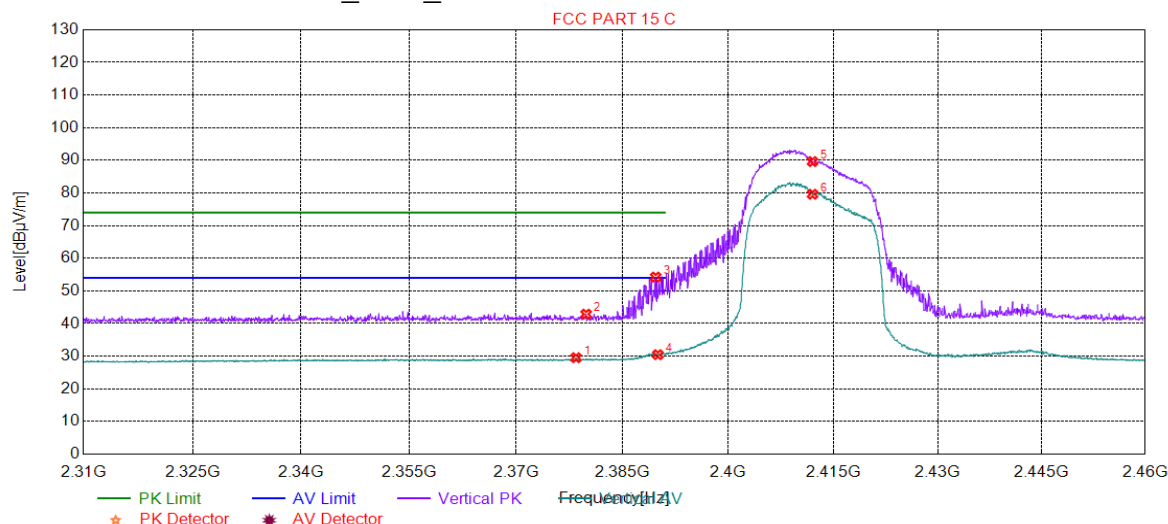
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2.10.1.17 802.11N20_CH1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.43	29.56	7.78	54.00	24.44	150	122	Vertical
2	2379.85	42.90	7.78	74.00	31.10	150	79	Vertical
3	2389.68	54.25	7.77	74.00	19.75	150	258	Vertical
4	2390.00	30.48	7.77	54.00	23.52	150	264	Vertical
5	2412.00	89.64	7.81	0.00	-89.64	150	258	Vertical
6	2412.00	79.63	7.81	0.00	-79.63	150	258	Vertical

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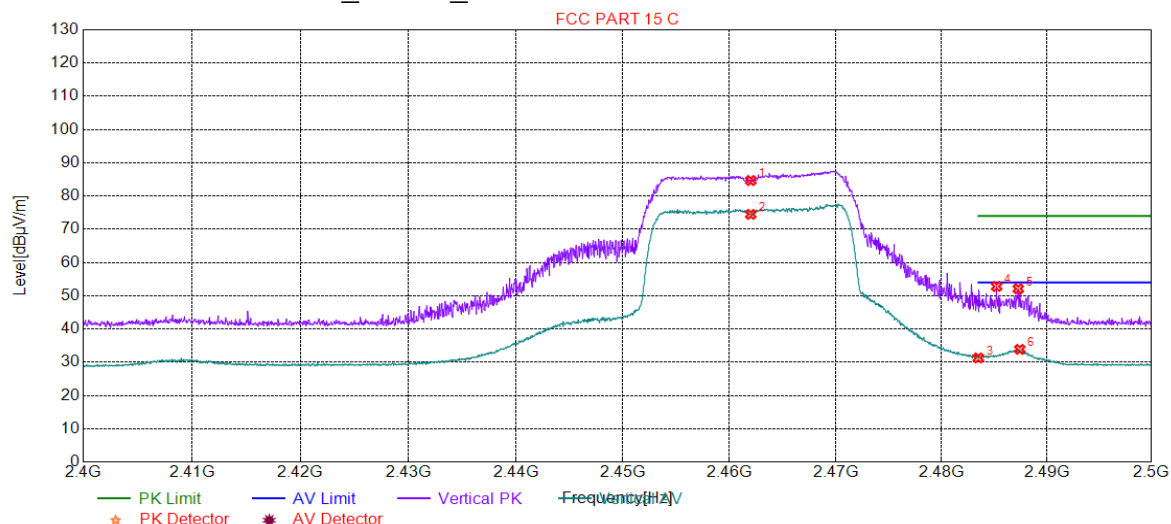
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2.10.1.18 802.11N20_ CH11_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	84.67	7.98	0.00	-84.67	150	256	Vertical
2	2462.00	74.50	7.98	0.00	-74.50	150	251	Vertical
3	2483.50	31.32	8.01	54.00	22.68	150	340	Vertical
4	2485.24	52.81	8.01	74.00	21.19	150	256	Vertical
5	2487.29	52.12	8.01	74.00	21.88	150	251	Vertical
6	2487.44	33.90	8.01	54.00	20.10	150	251	Vertical

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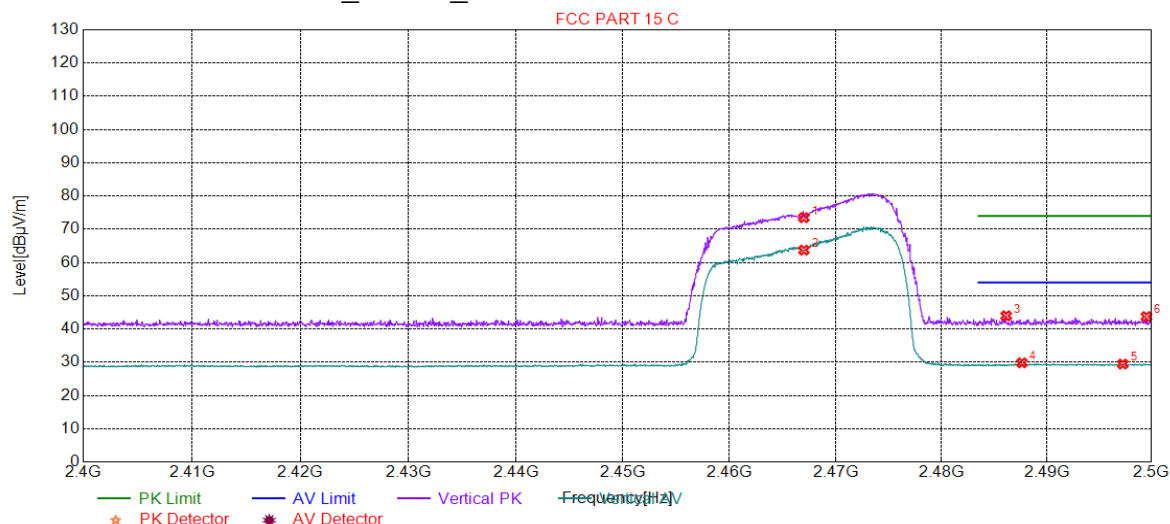
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2.10.1.19 802.11N20_ CH12_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	73.50	7.99	0.00	-73.50	150	260	Vertical
2	2467.00	63.74	7.99	0.00	-63.74	150	260	Vertical
3	2486.14	44.00	8.01	74.00	30.00	150	255	Vertical
4	2487.64	29.85	8.02	54.00	24.15	150	360	Vertical
5	2497.24	29.48	8.03	54.00	24.52	150	294	Vertical
6	2499.49	43.75	8.03	74.00	30.25	150	90	Vertical

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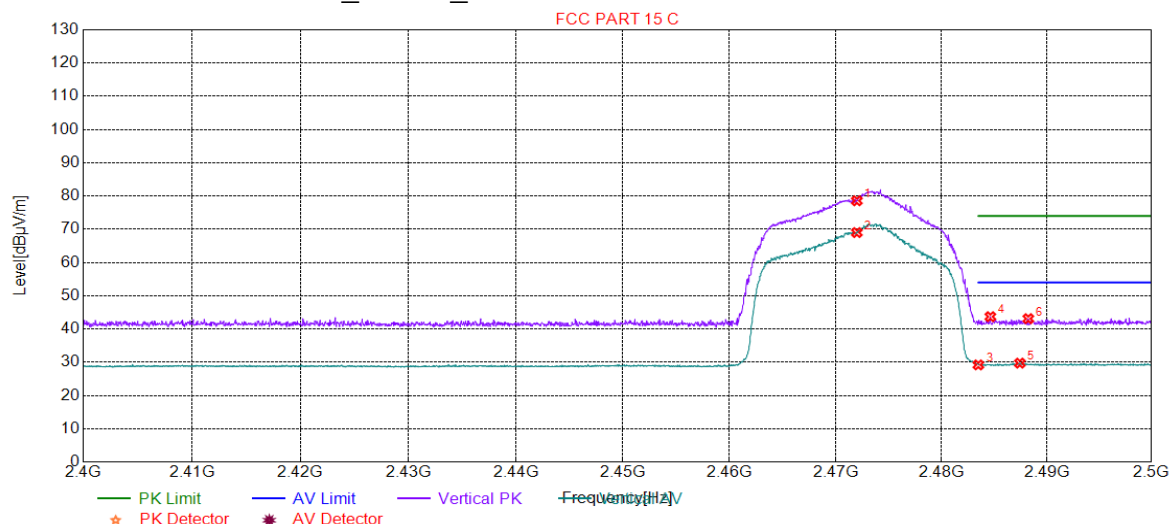
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2.10.1.20 802.11N20_ CH13_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	78.58	8.00	0.00	-78.58	150	336	Vertical
2	2472.00	69.02	8.00	0.00	-69.02	150	336	Vertical
3	2483.50	29.23	8.01	54.00	24.77	150	336	Vertical
4	2484.64	43.73	8.01	74.00	30.27	150	259	Vertical
5	2487.44	29.76	8.01	54.00	24.24	150	330	Vertical
6	2488.24	43.13	8.02	74.00	30.87	150	304	Vertical

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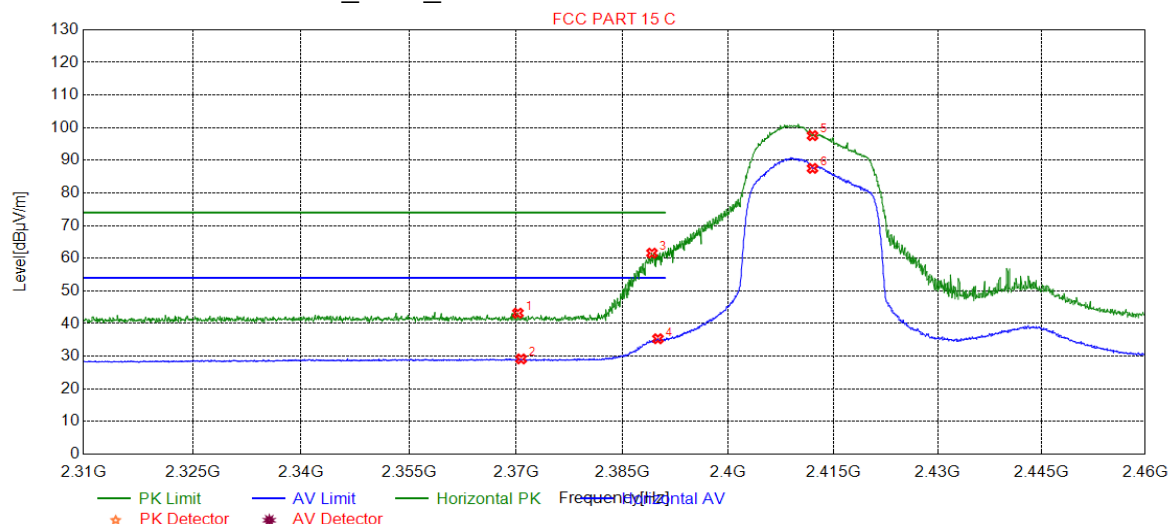
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2.10.1.21 802.11N20_CH1_Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.25	43.20	7.79	74.00	30.80	150	187	Horizontal
2	2370.70	29.18	7.79	54.00	24.82	150	326	Horizontal
3	2389.16	61.59	7.77	74.00	12.41	150	204	Horizontal
4	2390.00	35.36	7.77	54.00	18.64	150	209	Horizontal
5	2412.00	97.58	7.81	0.00	-97.58	150	204	Horizontal
6	2412.00	87.55	7.81	0.00	-87.55	150	209	Horizontal

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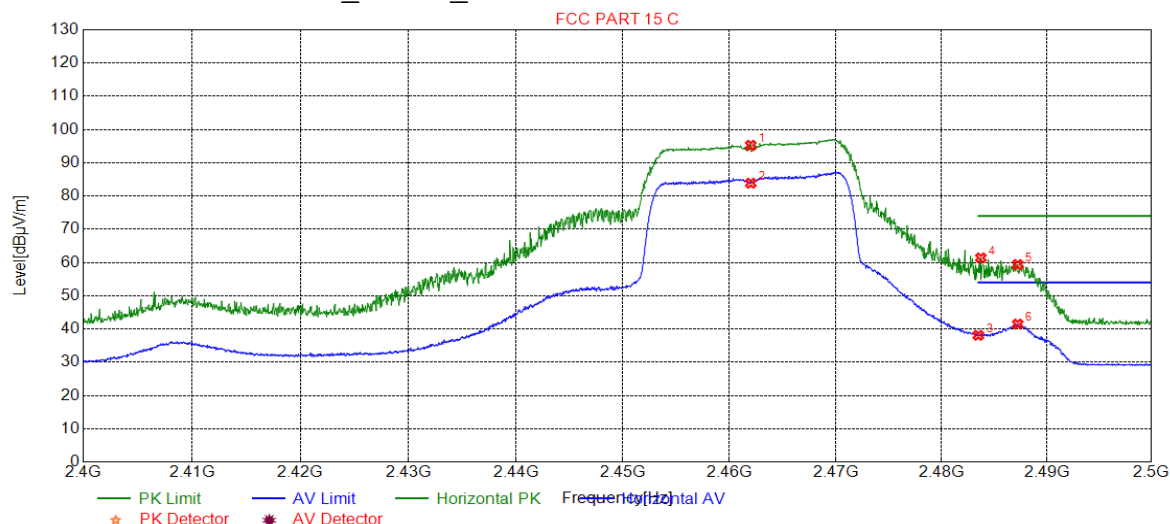
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2.10.1.22 802.11N20_ CH11_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	95.27	7.98	0.00	-95.27	150	198	Horizontal
2	2462.00	83.87	7.98	0.00	-83.87	150	210	Horizontal
3	2483.50	38.13	8.01	54.00	15.87	150	210	Horizontal
4	2483.74	61.42	8.01	74.00	12.58	150	292	Horizontal
5	2487.24	59.40	8.01	74.00	14.60	150	215	Horizontal
6	2487.24	41.50	8.01	54.00	12.50	150	215	Horizontal

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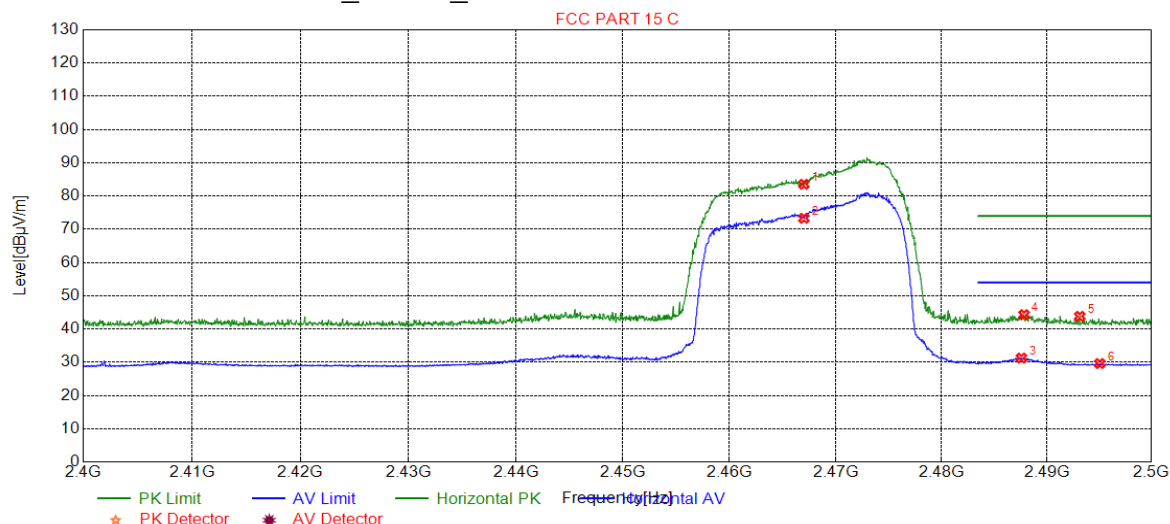
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2.10.1.23 802.11N20_ CH12_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	83.55	7.99	0.00	-83.55	150	341	Horizontal
2	2467.00	73.32	7.99	0.00	-73.32	150	346	Horizontal
3	2487.59	31.28	8.02	54.00	22.72	150	214	Horizontal
4	2487.84	44.33	8.02	74.00	29.67	150	209	Horizontal
5	2493.14	43.83	8.02	74.00	30.17	150	70	Horizontal
6	2495.04	29.64	8.02	54.00	24.36	150	114	Horizontal

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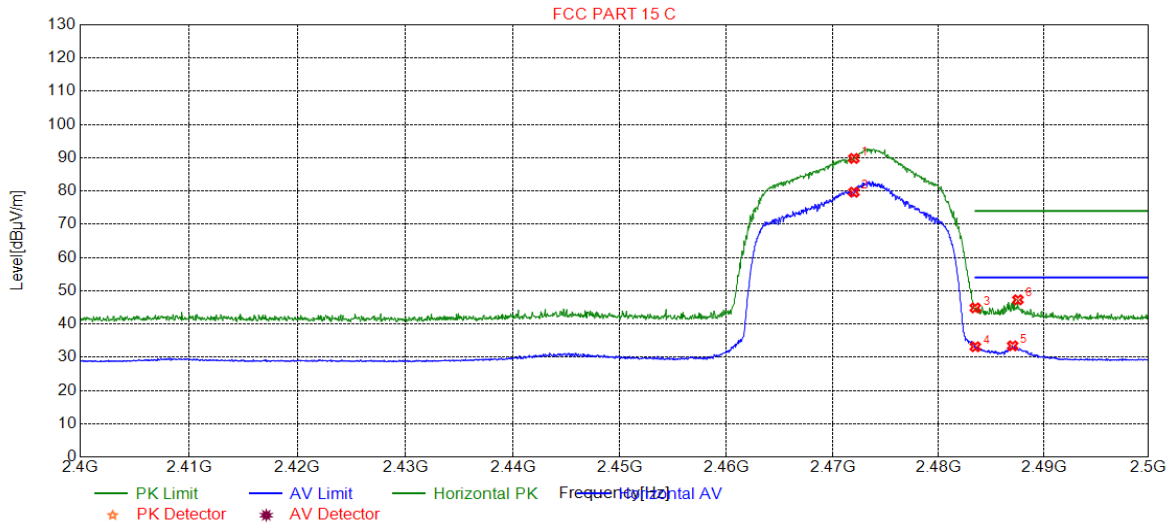
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2.10.1.24 802.11N20_ CH13_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	89.81	8.00	0.00	-89.81	150	341	Horizontal
2	2472.00	79.66	8.00	0.00	-79.66	150	341	Horizontal
3	2483.50	44.86	8.01	74.00	29.14	150	336	Horizontal
4	2483.50	33.19	8.01	54.00	20.81	150	336	Horizontal
5	2487.04	33.46	8.01	54.00	20.54	150	336	Horizontal
6	2487.54	47.30	8.02	74.00	26.70	150	331	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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3 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.75\text{dB}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 0.2\%$
4	RF power density, conducted	$\pm 2.84\text{dB}$
5	Spurious emissions, conducted	$\pm 0.75\text{dB}$
6	Radiated Spurious emission test	$\pm 4.8\text{dB}$ (30MHz-1GHz)
		$\pm 5.2\text{dB}$ (1GHz-6GHz)
		$\pm 5.5\text{dB}$ (6GHz-18GHz)
		$\pm 5.02\text{dB}$ (18GHz-40GHz)
7	Conduct emission test	$\pm 3.4\text{ dB}$ (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/2020/60017

The End

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