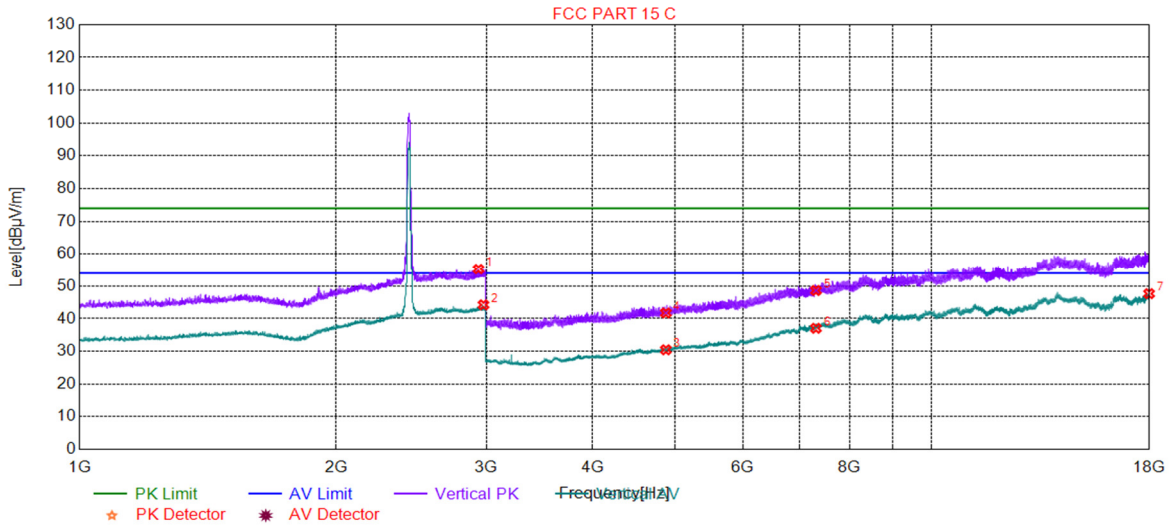


4.9.2.16 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.98	55.31	9.55	74.00	18.69	150	342	Vertical
2	2977.49	44.24	9.55	54.00	9.76	150	192	Vertical
3	4874.00	30.48	-17.99	54.00	23.52	150	210	Vertical
4	4874.00	41.75	-17.99	74.00	32.25	150	348	Vertical
5	7311.00	48.64	-9.74	74.00	25.36	150	41	Vertical
6	7311.00	37.07	-9.74	54.00	16.93	150	141	Vertical
7	17978.5	47.67	0.71	54.00	6.33	150	141	Vertical

Final Data List

(This section is intentionally left blank in the provided image.)



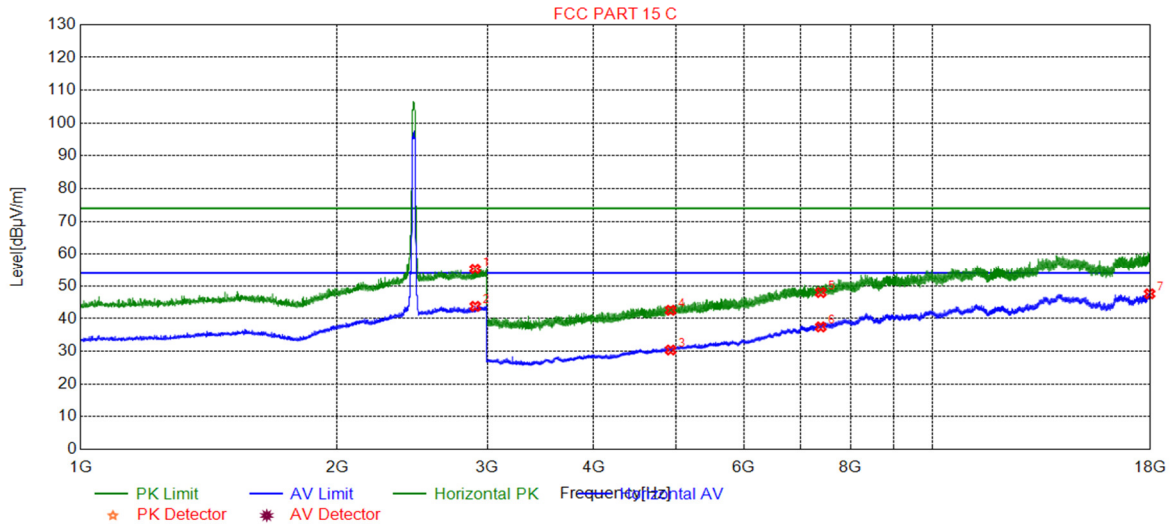
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4.9.2.17 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2903.47	55.39	9.18	74.00	18.61	150	264	Horizontal
2	2904.47	43.78	9.19	54.00	10.22	150	31	Horizontal
3	4924.00	30.42	-17.72	54.00	23.58	150	18	Horizontal
4	4924.00	42.58	-17.72	74.00	31.42	150	346	Horizontal
5	7386.00	48.01	-9.55	74.00	25.99	150	141	Horizontal
6	7386.00	37.49	-9.55	54.00	16.51	150	141	Horizontal
7	17954.3	47.61	0.71	54.00	6.39	150	141	Horizontal

Final Data List

Final Data List (Table content is identical to the Suspected List table above)



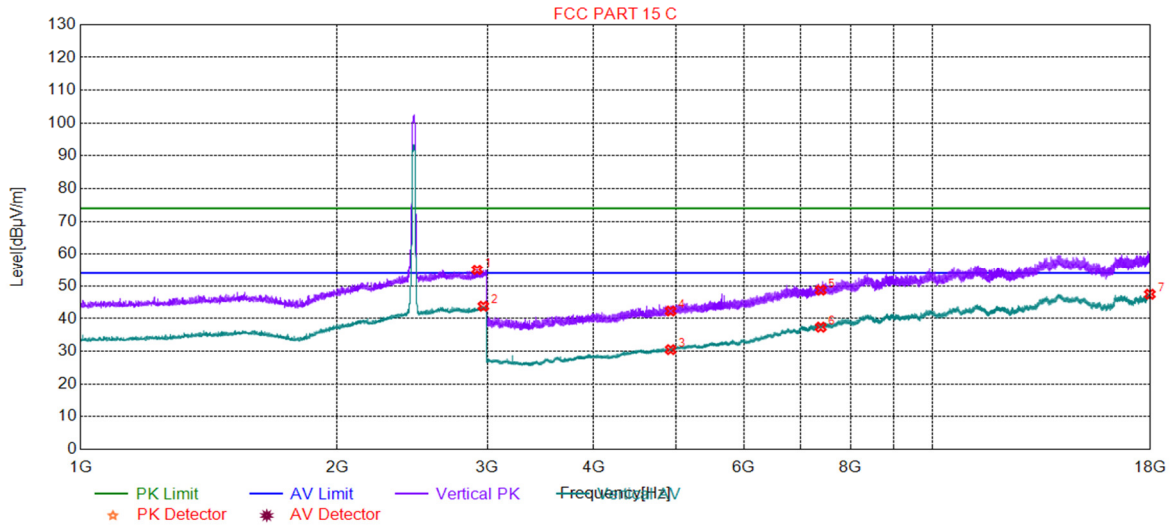
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4.9.2.18 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2918.97	55.07	9.34	74.00	18.93	150	218	Vertical
2	2968.49	43.82	9.59	54.00	10.18	150	12	Vertical
3	4924.00	30.53	-17.72	54.00	23.47	150	263	Vertical
4	4924.00	42.35	-17.72	74.00	31.65	150	318	Vertical
5	7386.00	48.74	-9.55	74.00	25.26	150	342	Vertical
6	7386.00	37.41	-9.55	54.00	16.59	150	342	Vertical
7	17967.5	47.49	0.71	54.00	6.51	150	92	Vertical

Final Data List

Final Data List



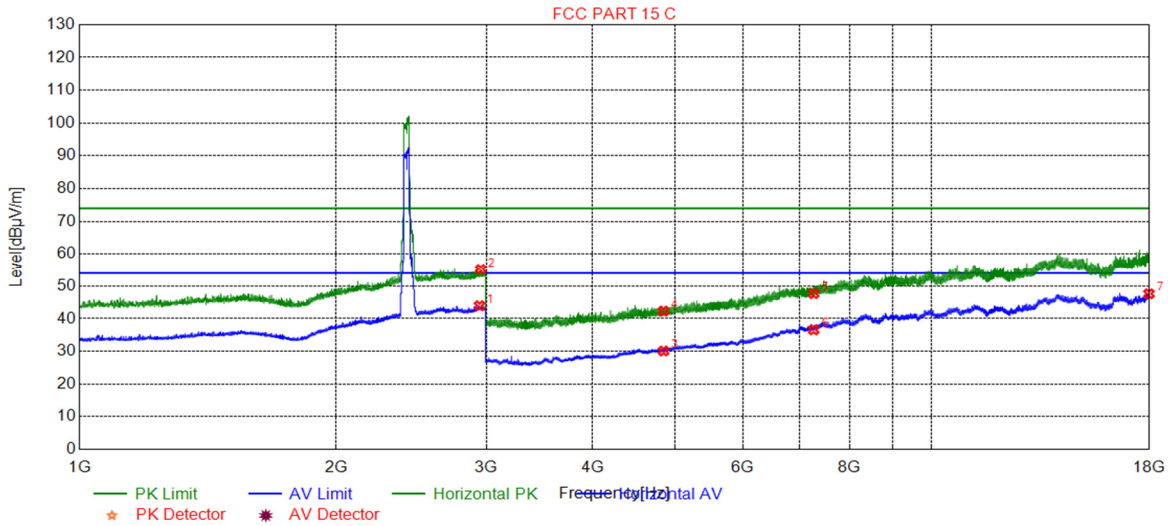
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4.9.2.19 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2945.98	43.96	9.64	54.00	10.04	150	72	Horizontal
2	2955.48	55.29	9.65	74.00	18.71	150	44	Horizontal
3	4844.00	30.12	-18.13	54.00	23.88	150	72	Horizontal
4	4844.00	42.32	-18.13	74.00	31.68	150	208	Horizontal
5	7266.00	47.67	-9.88	74.00	26.33	150	191	Horizontal
6	7266.00	36.58	-9.88	54.00	17.42	150	141	Horizontal
7	17973.0	47.63	0.71	54.00	6.37	150	342	Horizontal

Final Data List

(This section is intentionally left blank in the provided image.)



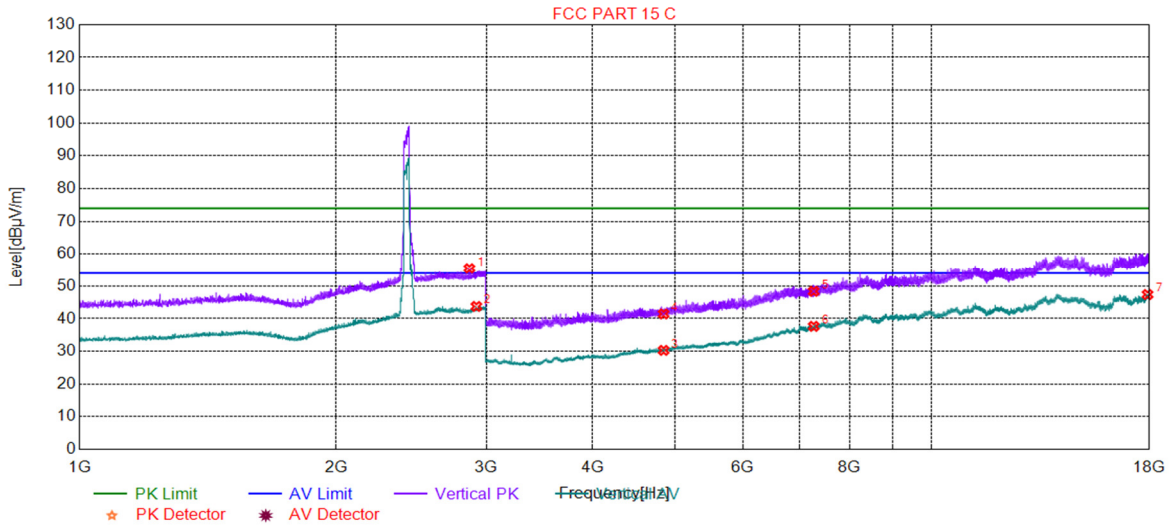
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4.9.2.20 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2866.46	55.56	9.21	74.00	18.44	150	342	Vertical
2	2921.48	43.75	9.37	54.00	10.25	150	108	Vertical
3	4844.00	30.30	-18.13	54.00	23.70	150	345	Vertical
4	4844.00	41.46	-18.13	74.00	32.54	150	290	Vertical
5	7266.00	48.39	-9.88	74.00	25.61	150	0	Vertical
6	7266.00	37.66	-9.88	54.00	16.34	150	90	Vertical
7	17905.9	47.40	0.69	54.00	6.60	150	40	Vertical

Final Data List



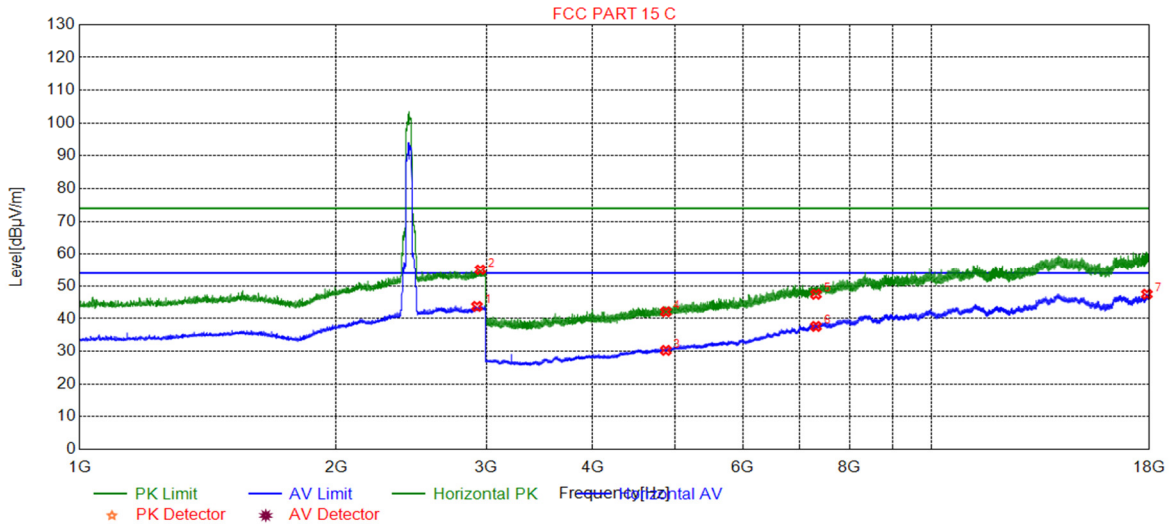
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4.9.2.21 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2925.98	43.75	9.42	54.00	10.25	150	18	Horizontal
2	2952.48	55.12	9.67	74.00	18.88	150	237	Horizontal
3	4874.00	30.30	-17.99	54.00	23.70	150	154	Horizontal
4	4874.00	42.10	-17.99	74.00	31.90	150	209	Horizontal
5	7311.00	47.47	-9.74	74.00	26.53	150	0	Horizontal
6	7311.00	37.64	-9.74	54.00	16.36	150	0	Horizontal
7	17871.8	47.50	0.32	54.00	6.50	150	140	Horizontal

Final Data List

(This section is intentionally left blank in the provided image.)



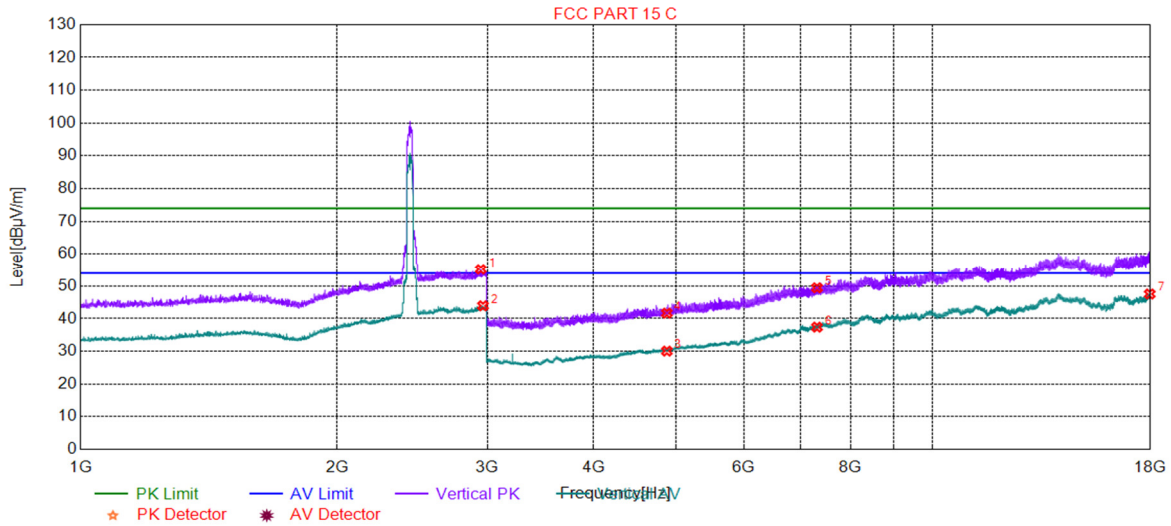
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4.9.2.22 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2947.98	55.24	9.66	74.00	18.76	150	342	Vertical
2	2965.49	43.95	9.61	54.00	10.05	150	138	Vertical
3	4874.00	30.08	-17.99	54.00	23.92	150	292	Vertical
4	4874.00	41.70	-17.99	74.00	32.30	150	319	Vertical
5	7311.00	49.45	-9.74	74.00	24.55	150	241	Vertical
6	7311.00	37.42	-9.74	54.00	16.58	150	291	Vertical
7	17962.0	47.56	0.71	54.00	6.44	150	342	Vertical

Final Data List

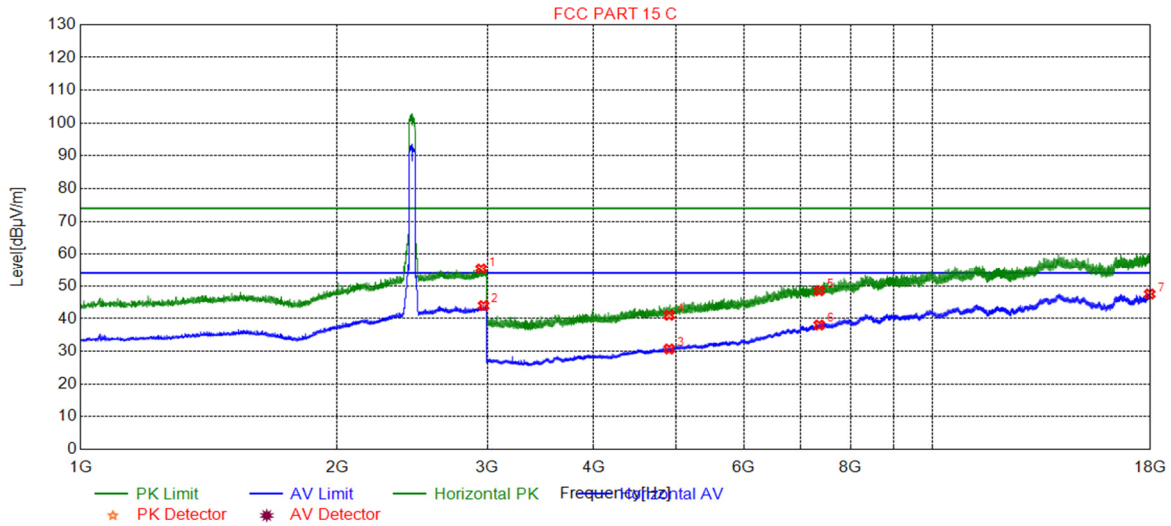


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4.9.2.23 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.98	55.49	9.68	74.00	18.51	150	209	Horizontal
2	2970.49	44.00	9.59	54.00	10.00	150	237	Horizontal
3	4904.00	30.72	-17.85	54.00	23.28	150	47	Horizontal
4	4904.00	41.07	-17.85	74.00	32.93	150	156	Horizontal
5	7356.00	48.56	-9.62	74.00	25.44	150	342	Horizontal
6	7356.00	38.05	-9.62	54.00	15.95	150	292	Horizontal
7	17962.0	47.55	0.71	54.00	6.45	150	41	Horizontal

Final Data List

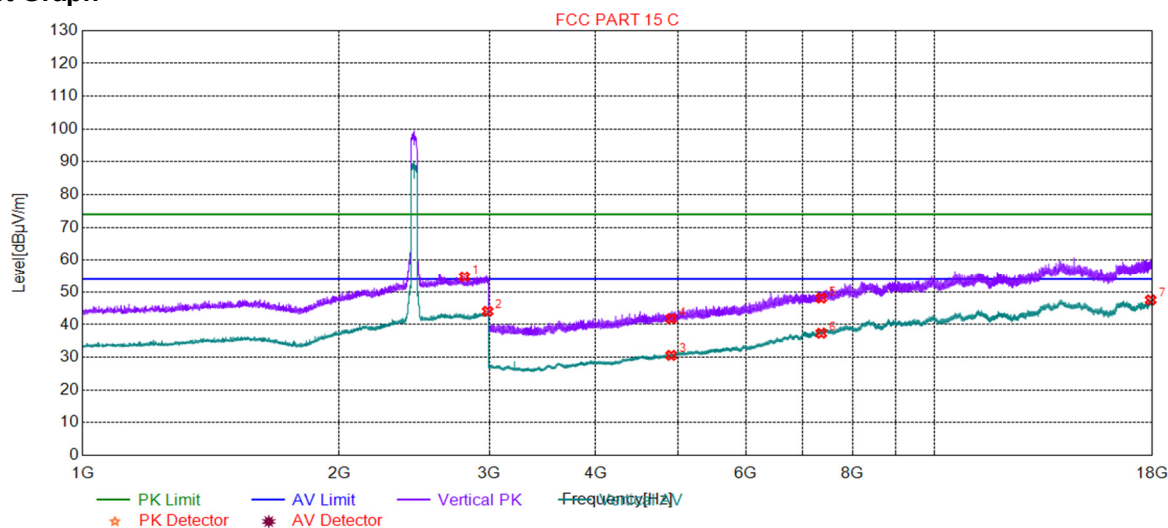


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4.9.2.24 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2805.95	54.82	9.01	74.00	19.18	150	13	Vertical
2	2986.99	44.09	9.51	54.00	9.91	150	26	Vertical
3	4904.00	30.61	-17.85	54.00	23.39	150	18	Vertical
4	4904.00	41.81	-17.85	74.00	32.19	150	72	Vertical
5	7356.00	48.13	-9.62	74.00	25.87	150	241	Vertical
6	7356.00	37.38	-9.62	54.00	16.62	150	342	Vertical
7	17911.4	47.59	0.69	54.00	6.41	150	141	Vertical

Final Data List

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:

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

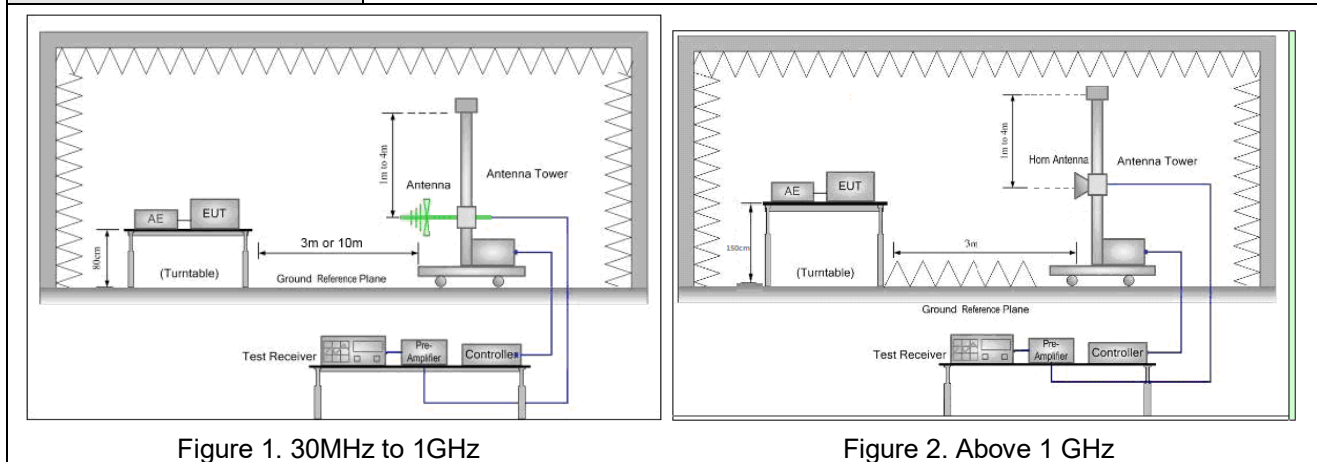


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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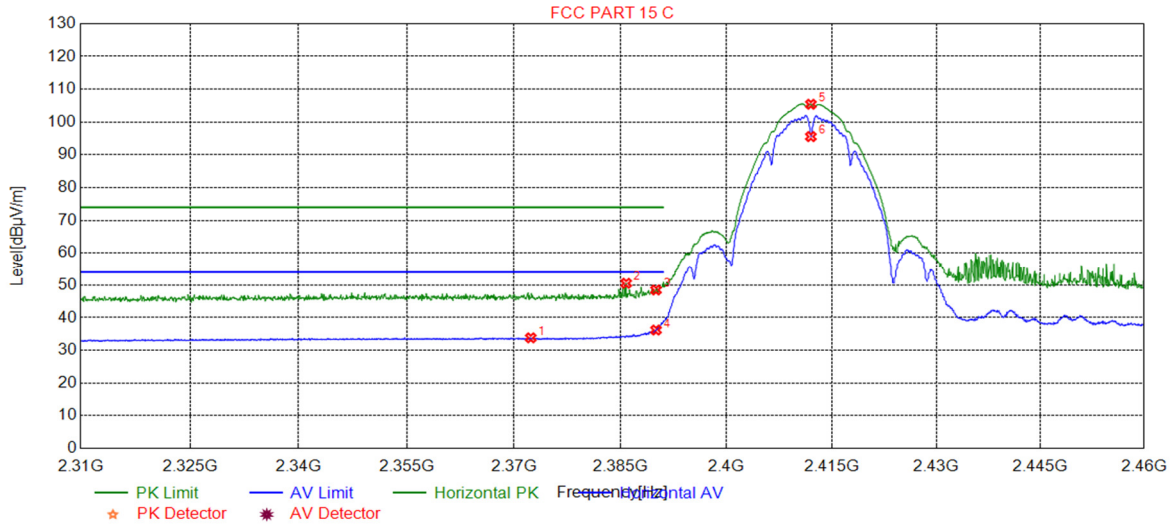
<p>Test Procedure:</p>	<ul style="list-style-type: none"> a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. 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 rotatable 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.
<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>



Test plot as follows:

4.10.1.1 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.35	33.84	7.79	54.00	20.16	150	170	Horizontal
2	2385.78	50.55	7.77	74.00	23.45	150	65	Horizontal
3	2390.00	48.49	7.77	74.00	25.51	150	65	Horizontal
4	2390.00	36.22	7.77	54.00	17.78	150	32	Horizontal
5	2412.00	105.43	7.81	0.00	-105.43	150	32	Horizontal
6	2412.00	95.57	7.81	0.00	-95.57	150	38	Horizontal

Final Data List

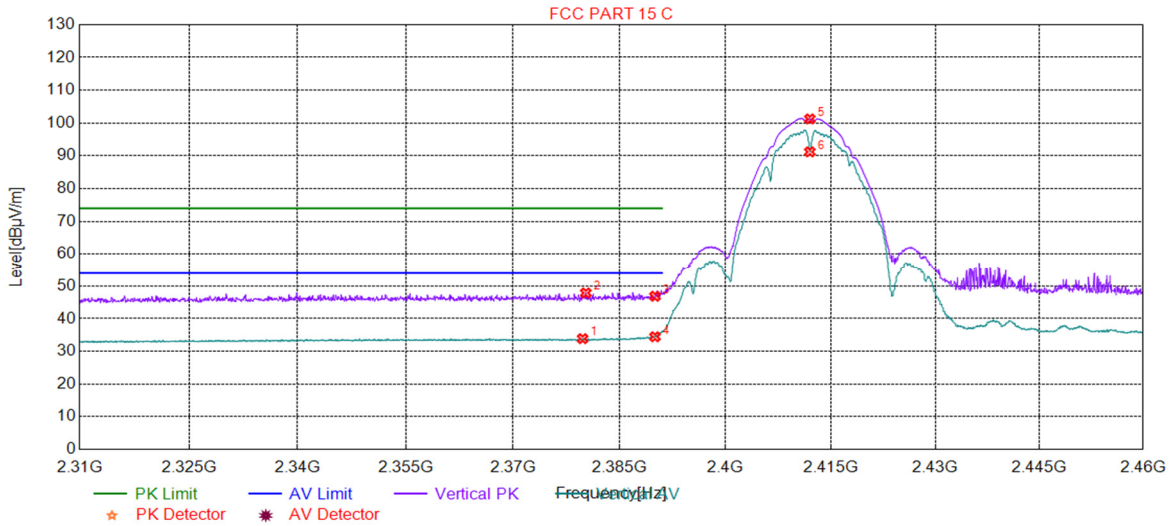


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4.10.1.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.78	33.89	7.78	54.00	20.11	150	40	Vertical
2	2380.23	47.88	7.78	74.00	26.12	150	134	Vertical
3	2390.00	46.87	7.77	74.00	27.13	150	78	Vertical
4	2390.00	34.46	7.77	54.00	19.54	150	62	Vertical
5	2412.00	101.27	7.81	0.00	-101.27	150	117	Vertical
6	2412.00	91.21	7.81	0.00	-91.21	150	106	Vertical

Final Data List

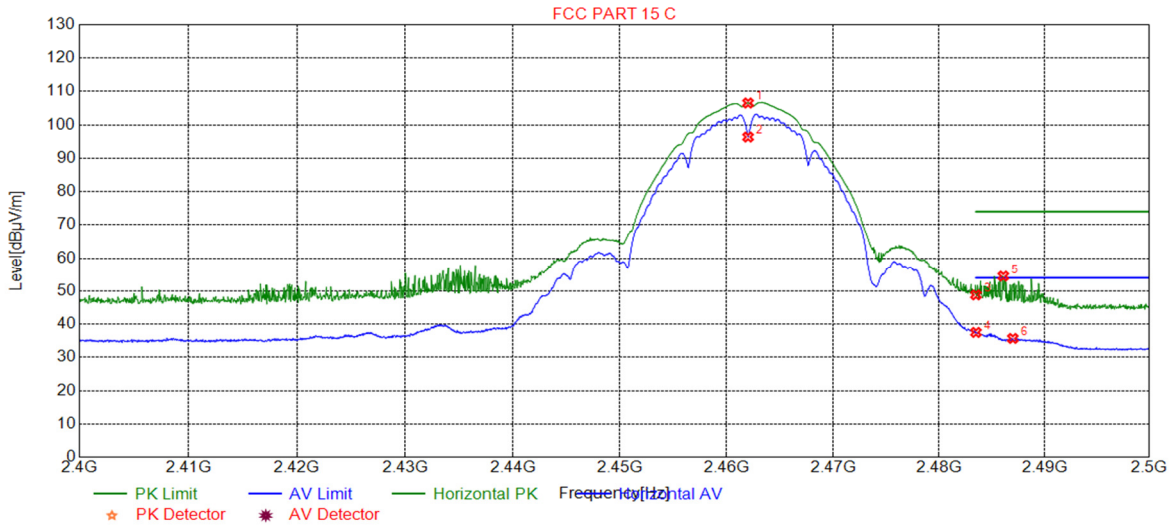


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4.10.1.3 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	106.55	7.98	0.00	-106.55	150	56	Horizontal
2	2462.00	96.36	7.98	0.00	-96.36	150	35	Horizontal
3	2483.50	48.81	8.01	74.00	25.19	150	29	Horizontal
4	2483.50	37.52	8.01	54.00	16.48	150	35	Horizontal
5	2486.09	54.50	8.01	74.00	19.50	150	56	Horizontal
6	2486.99	35.72	8.01	54.00	18.28	150	35	Horizontal

Final Data List

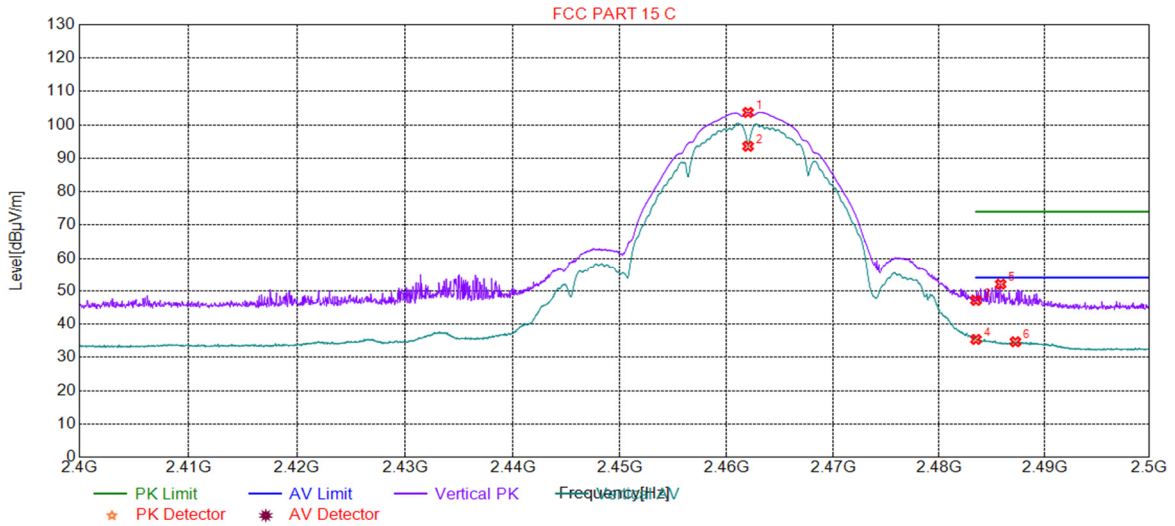


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4.10.1.4 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	103.72	7.98	0.00	-103.72	150	106	Vertical
2	2462.00	93.61	7.98	0.00	-93.61	150	106	Vertical
3	2483.50	47.13	8.01	74.00	26.87	150	78	Vertical
4	2483.50	35.41	8.01	54.00	18.59	150	84	Vertical
5	2485.84	52.02	8.01	74.00	21.98	150	100	Vertical
6	2487.24	34.71	8.01	54.00	19.29	150	111	Vertical

Final Data List

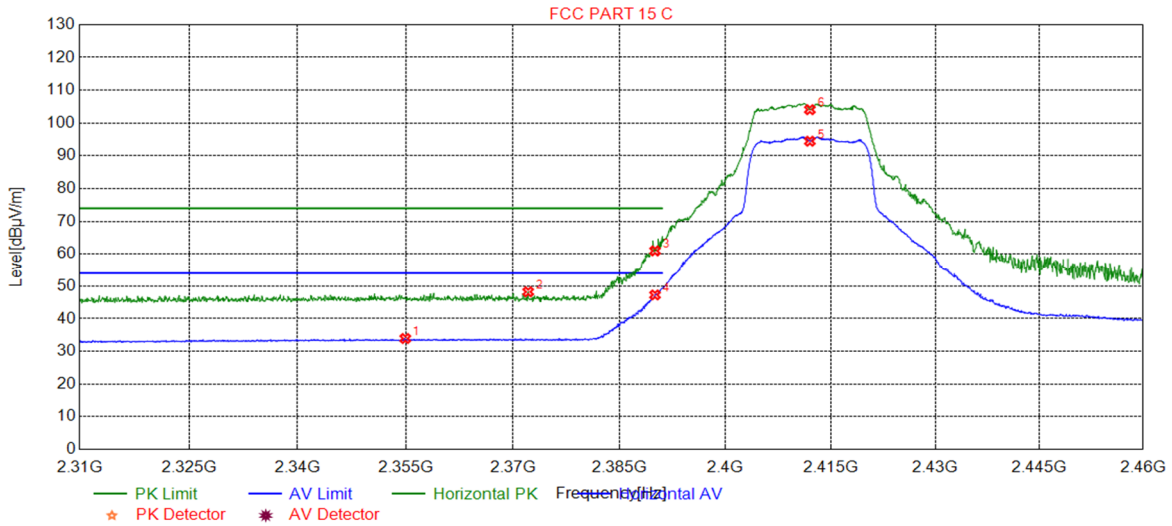


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4.10.1.5 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2354.94	33.94	7.81	54.00	20.06	150	197	Horizontal
2	2372.13	48.23	7.79	74.00	25.77	150	103	Horizontal
3	2390.00	61.01	7.77	74.00	12.99	150	48	Horizontal
4	2390.00	47.27	7.77	54.00	6.73	150	54	Horizontal
5	2412.00	94.47	7.81	0.00	-94.47	150	48	Horizontal
6	2412.00	104.08	7.81	0.00	-104.08	150	48	Horizontal

Final Data List



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