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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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m 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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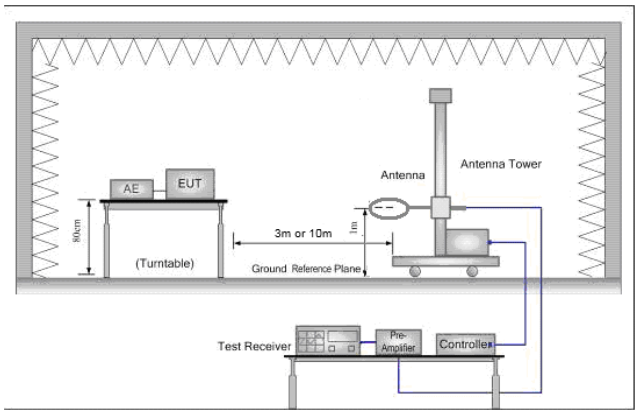

Figure 1. Below 30MHz

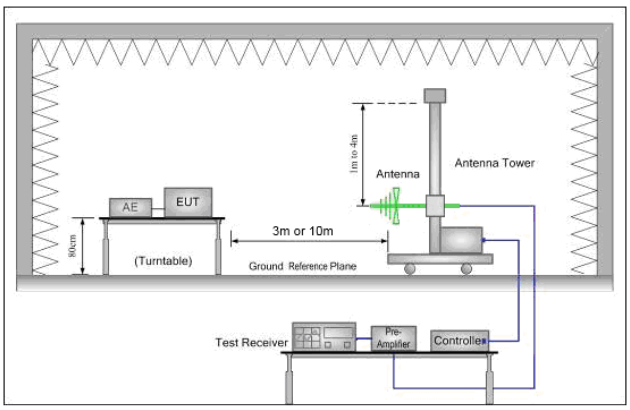

Figure 2. 30MHz to 1GHz

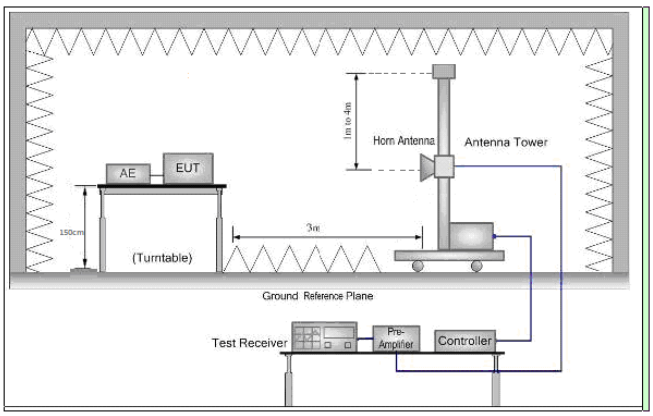

Figure 3. Above 1 GHz

Test Procedure:	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. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW ⩾ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds

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	On time = N 1 *L 1 +N 2 *L 2 +...+N n-1 *LN n-1 +N n *L n Where N 1 is number of type 1 pulses, L 1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycl f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. h. 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. i. Test the EUT in the lowest channel, the middle channel ,the Highest channel j. 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. k. 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:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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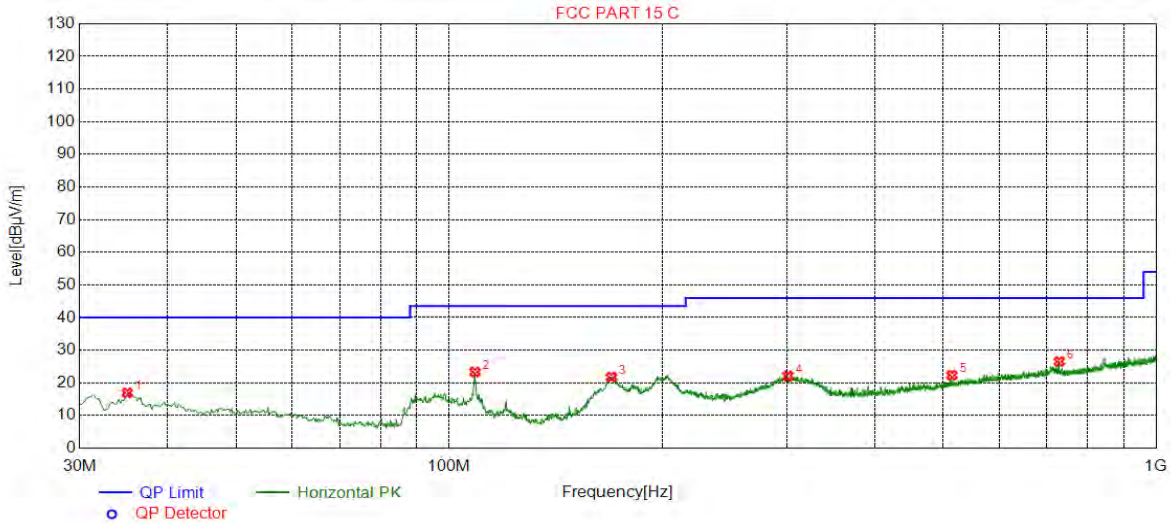
4.9.1 Radiated Emission below 1GHz

MIMO:

4.9.1.1 Charge + Transmitting

Project Information			
Mode:	2.4G WIFI	State:	
Environment:	Temp: 25℃; Humi:60%	Engineer:	

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.0450	16.96	-29.95	40.00	23.04	200	261	Horizontal
2	108.779	23.34	-32.00	43.50	20.16	200	74	Horizontal
3	169.707	21.78	-34.06	43.50	21.72	200	204	Horizontal
4	301.460	22.09	-28.22	46.00	23.91	100	119	Horizontal
5	514.126	22.35	-22.96	46.00	23.65	100	96	Horizontal
6	729.703	26.55	-18.81	46.00	19.45	200	283	Horizontal

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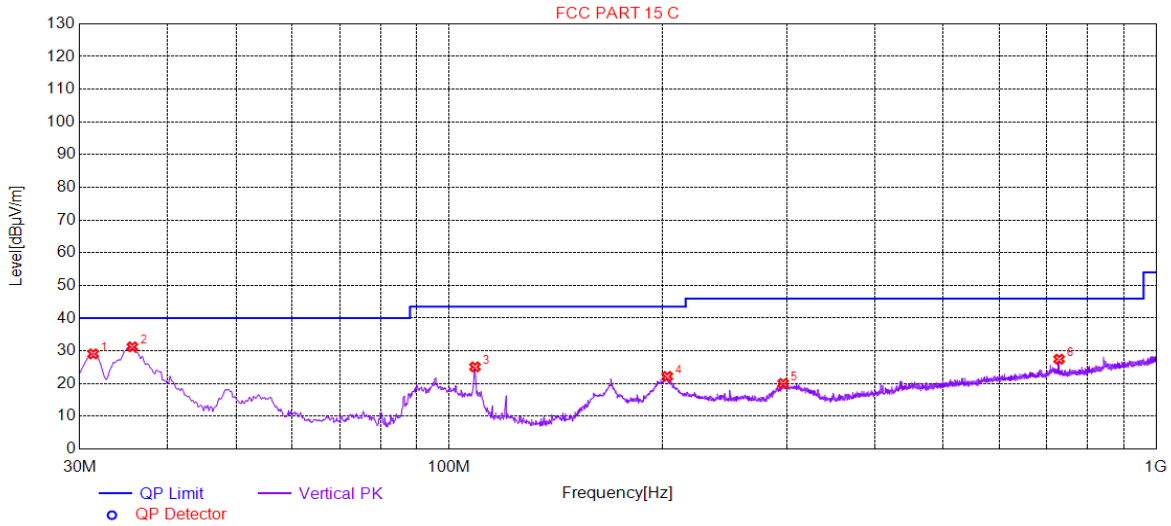
Project Information			
Mode:	2.4G WIFI	State:	
Environment:	Temp: 25℃; Humi:60%	Engineer:	

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.3583	29.08	-30.05	40.00	10.92	100	81	Vertical
2	35.6271	31.23	-29.76	40.00	8.77	100	81	Vertical
3	108.779	25.12	-32.00	43.50	18.38	100	221	Vertical
4	203.470	22.20	-31.11	43.50	21.30	100	33	Vertical
5	296.803	20.04	-28.38	46.00	25.96	200	228	Vertical
6	729.121	27.48	-18.82	46.00	18.52	100	343	Vertical

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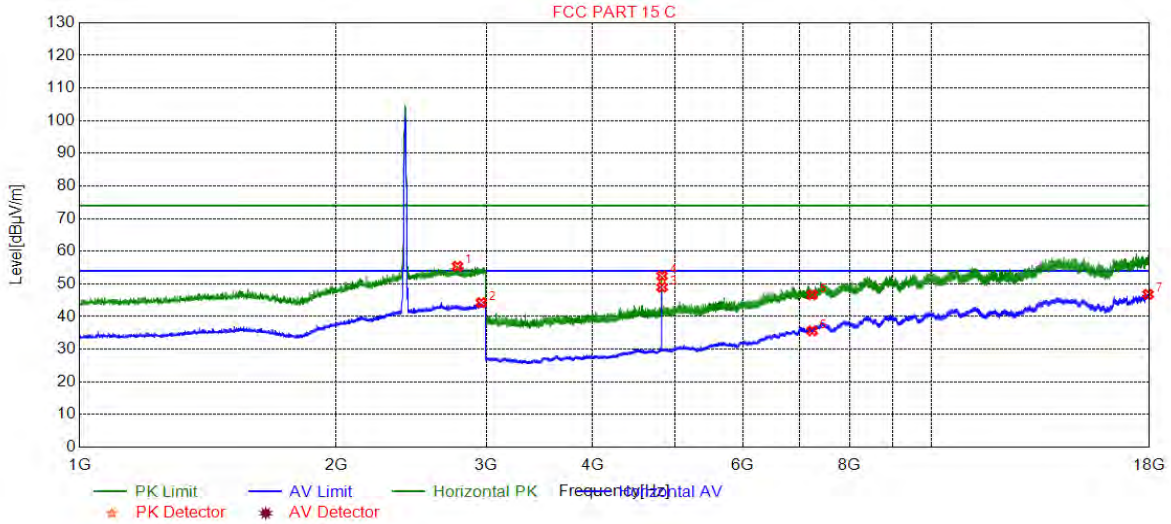
4.9.2 Transmitter emission above 1GHz

MIMO:

4.9.2.1 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
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1	2775.94	55.41	9.04	74.00	18.59	150	156	Horizontal
2	2959.48	44.26	9.64	54.00	9.74	150	358	Horizontal
3	4824.00	49.00	-18.21	54.00	5.00	150	232	Horizontal
4	4824.00	52.47	-18.21	74.00	21.53	150	232	Horizontal
5	7236.00	46.65	-9.99	74.00	27.35	150	118	Horizontal
6	7236.00	35.63	-9.99	54.00	18.37	150	320	Horizontal
7	17927.9	46.82	0.70	54.00	7.18	150	68	Horizontal

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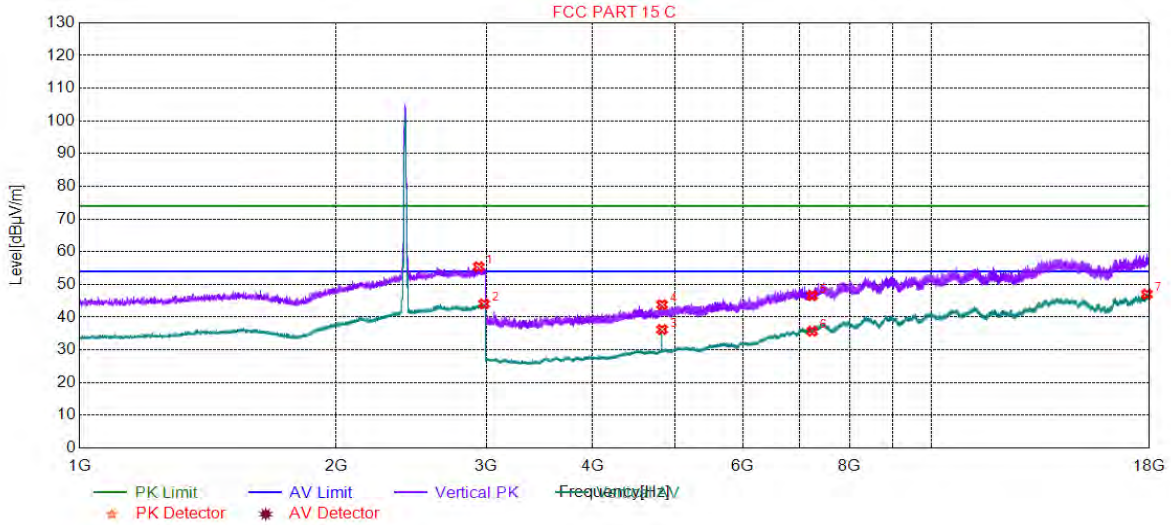
4.9.2.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2939.48	55.40	9.57	74.00	18.60	150	288	Vertical
2	2982.99	44.07	9.53	54.00	9.93	150	108	Vertical
3	4824.00	36.23	-18.21	54.00	17.77	150	260	Vertical
4	4824.00	43.82	-18.21	74.00	30.18	150	228	Vertical
5	7236.00	46.55	-9.99	74.00	27.45	150	118	Vertical
6	7236.00	35.71	-9.99	54.00	18.29	150	218	Vertical
7	17869.0	47.04	0.28	54.00	6.96	150	268	Vertical

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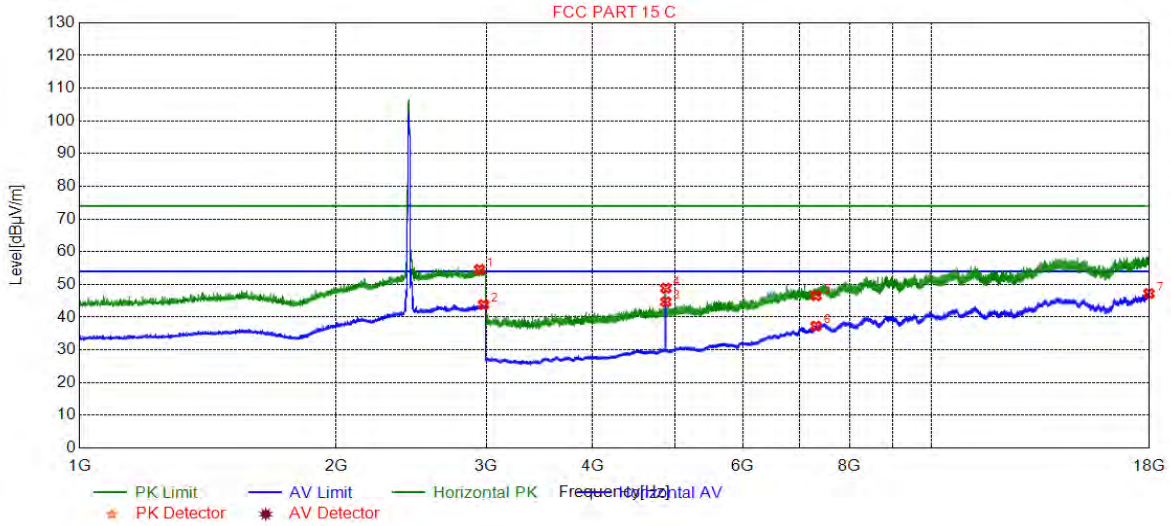
4.9.2.3 802.11B_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.48	54.61	9.64	74.00	19.39	150	192	Horizontal
2	2978.99	43.85	9.55	54.00	10.15	150	342	Horizontal
3	4874.00	44.69	-17.99	54.00	9.31	150	227	Horizontal
4	4874.00	48.86	-17.99	74.00	25.14	150	227	Horizontal
5	7311.00	46.56	-9.74	74.00	27.44	150	269	Horizontal
6	7311.00	37.29	-9.74	54.00	16.71	150	18	Horizontal
7	17976.8	47.24	0.71	54.00	6.76	150	168	Horizontal

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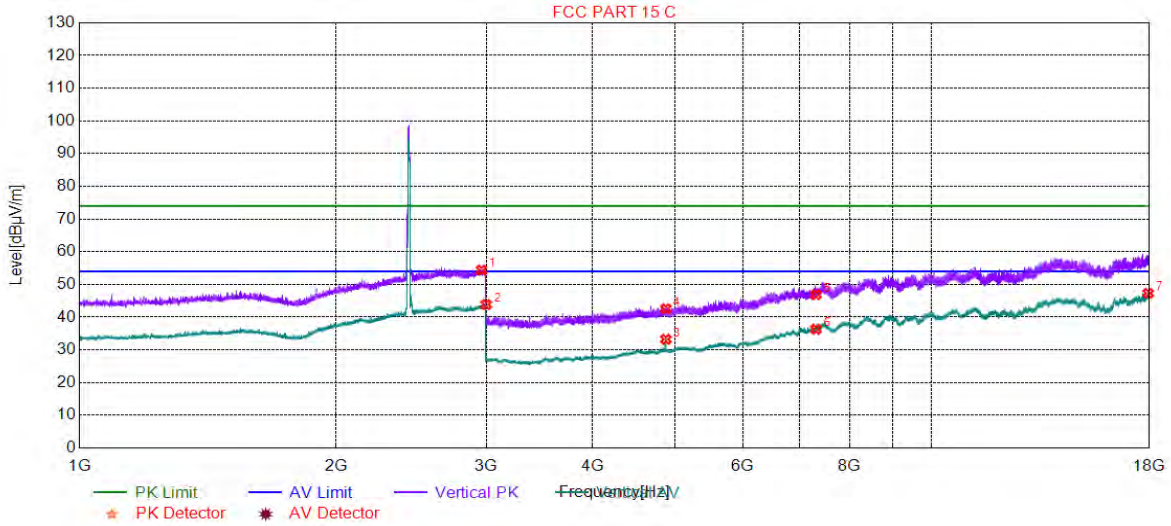
4.9.2.4 802.11B_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2961.99	54.43	9.62	74.00	19.57	150	113	Vertical
2	2999.49	43.85	9.45	54.00	10.15	150	278	Vertical
3	4874.00	33.24	-17.99	54.00	20.76	150	261	Vertical
4	4874.00	42.61	-17.99	74.00	31.39	150	96	Vertical
5	7311.00	46.88	-9.74	74.00	27.12	150	69	Vertical
6	7311.00	36.33	-9.74	54.00	17.67	150	360	Vertical
7	17933.4	47.31	0.70	54.00	6.69	150	269	Vertical

Final Data List

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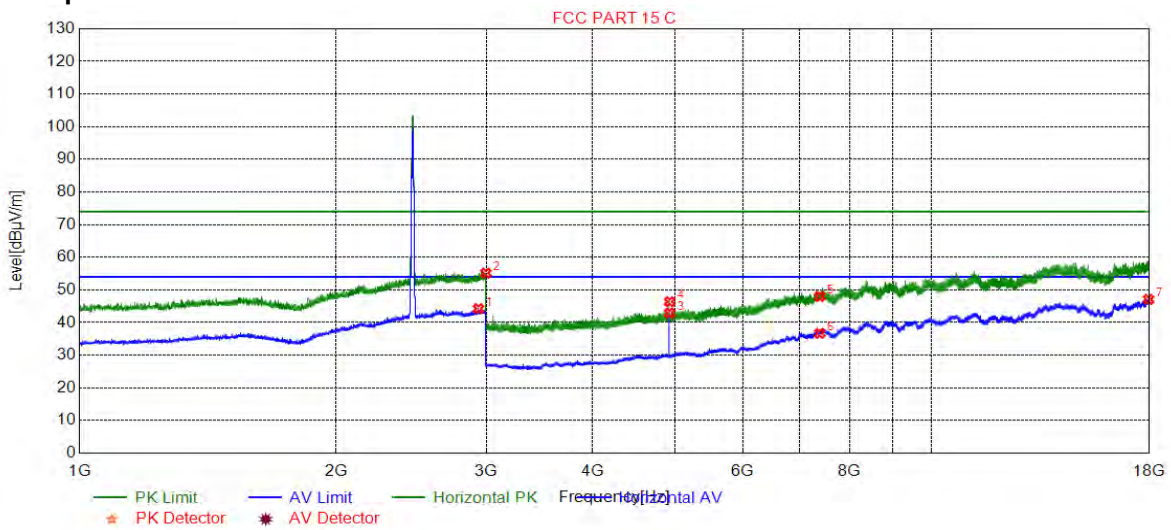
4.9.2.5 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.48	44.28	9.54	54.00	9.72	150	183	Horizontal
2	2997.99	55.17	9.46	74.00	18.83	150	183	Horizontal
3	4924.00	42.95	-17.72	54.00	11.05	150	234	Horizontal
4	4924.00	46.41	-17.72	74.00	27.59	150	262	Horizontal
5	7386.00	48.01	-9.55	74.00	25.99	150	319	Horizontal
6	7386.00	36.70	-9.55	54.00	17.30	150	270	Horizontal
7	17952.1	47.11	0.71	54.00	6.89	150	360	Horizontal

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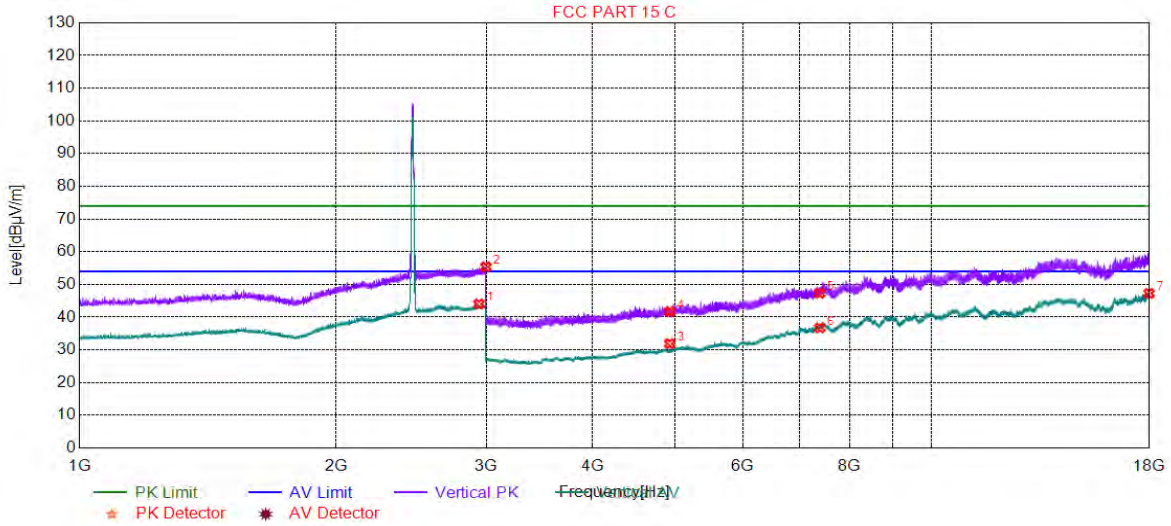
4.9.2.6 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
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1	2941.98	44.03	9.59	54.00	9.97	150	316	Vertical
2	2997.49	55.38	9.46	74.00	18.62	150	40	Vertical
3	4924.00	31.93	-17.72	54.00	22.07	150	150	Vertical
4	4924.00	41.71	-17.72	74.00	32.29	150	13	Vertical
5	7386.00	47.32	-9.55	74.00	26.68	150	219	Vertical
6	7386.00	36.73	-9.55	54.00	17.27	150	119	Vertical
7	17974.6	47.27	0.71	54.00	6.73	150	18	Vertical

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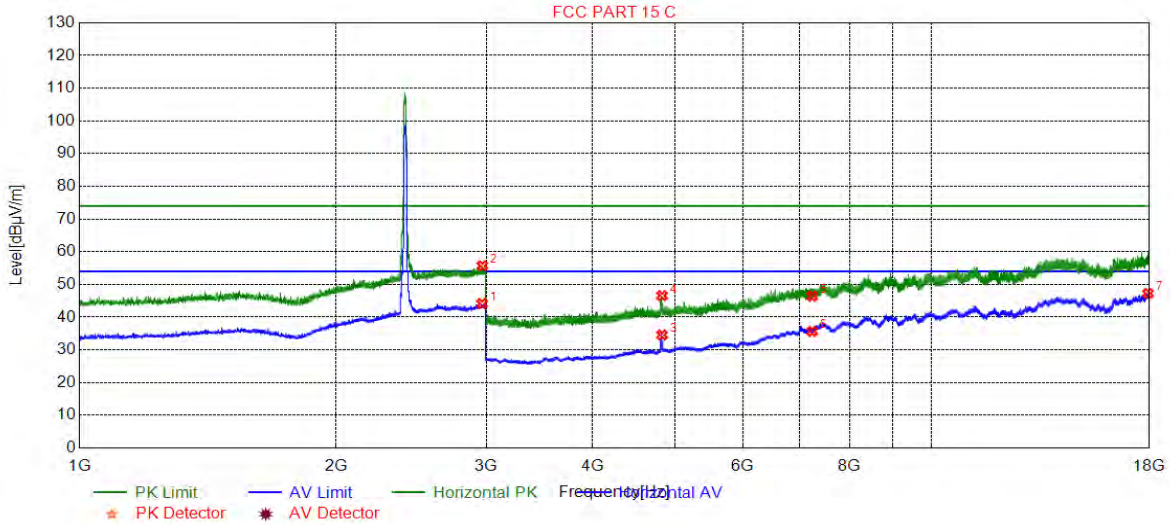
4.9.2.7 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2966.49	44.17	9.60	54.00	9.83	150	74	Horizontal
2	2968.99	55.74	9.59	74.00	18.26	150	102	Horizontal
3	4824.00	34.57	-18.21	54.00	19.43	150	261	Horizontal
4	4824.00	46.58	-18.21	74.00	27.42	150	233	Horizontal
5	7236.00	46.42	-9.99	74.00	27.58	150	270	Horizontal
6	7236.00	35.67	-9.99	54.00	18.33	150	169	Horizontal
7	17931.2	47.28	0.70	54.00	6.72	150	220	Horizontal

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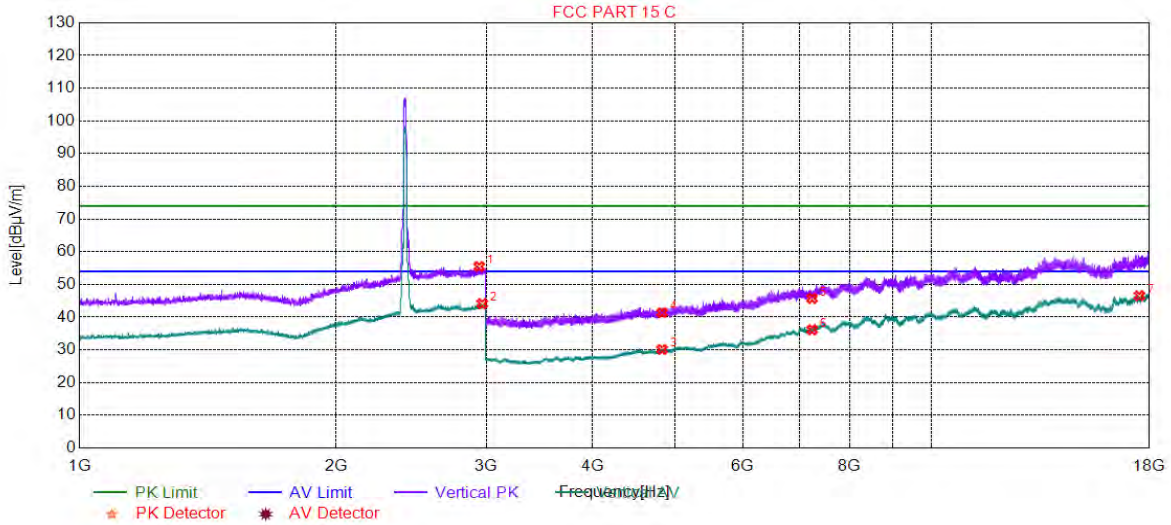
4.9.2.8 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
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1	2943.48	55.47	9.61	74.00	18.53	150	0	Vertical
2	2967.49	44.12	9.60	54.00	9.88	150	68	Vertical
3	4824.00	30.15	-18.21	54.00	23.85	150	287	Vertical
4	4824.00	41.39	-18.21	74.00	32.61	150	314	Vertical
5	7236.00	45.76	-9.99	74.00	28.24	150	360	Vertical
6	7236.00	36.16	-9.99	54.00	17.84	150	360	Vertical
7	17515.9	46.54	0.98	54.00	7.46	150	321	Vertical

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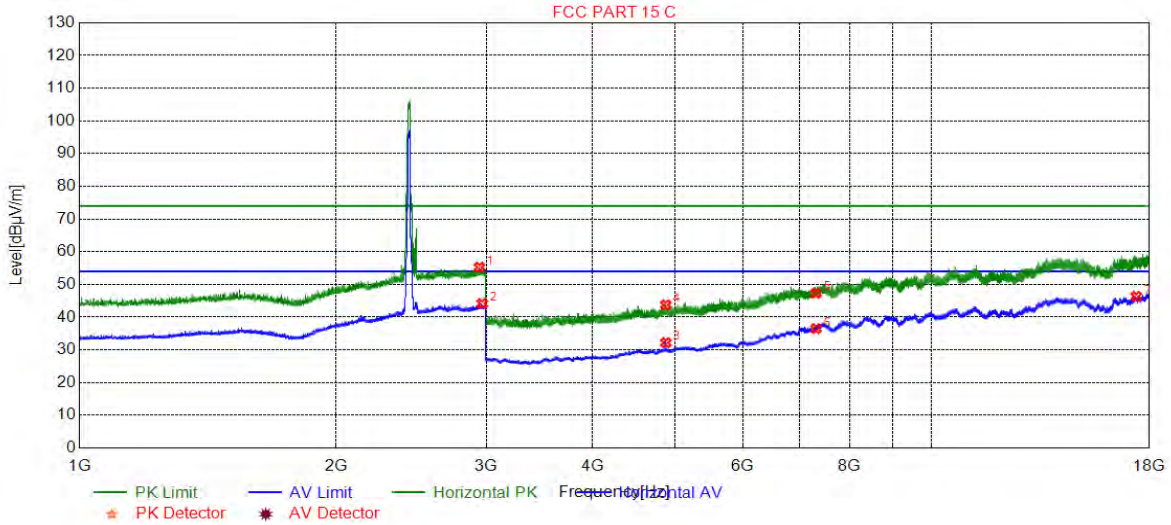
4.9.2.9 802.11G_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.48	55.27	9.64	74.00	18.73	150	0	Horizontal
2	2967.49	44.17	9.60	54.00	9.83	150	342	Horizontal
3	4874.00	32.21	-17.99	54.00	21.79	150	232	Horizontal
4	4874.00	43.77	-17.99	74.00	30.23	150	232	Horizontal
5	7311.00	47.32	-9.74	74.00	26.68	150	18	Horizontal
6	7311.00	36.50	-9.74	54.00	17.50	150	220	Horizontal
7	17368.5	46.37	0.13	54.00	7.63	150	119	Horizontal

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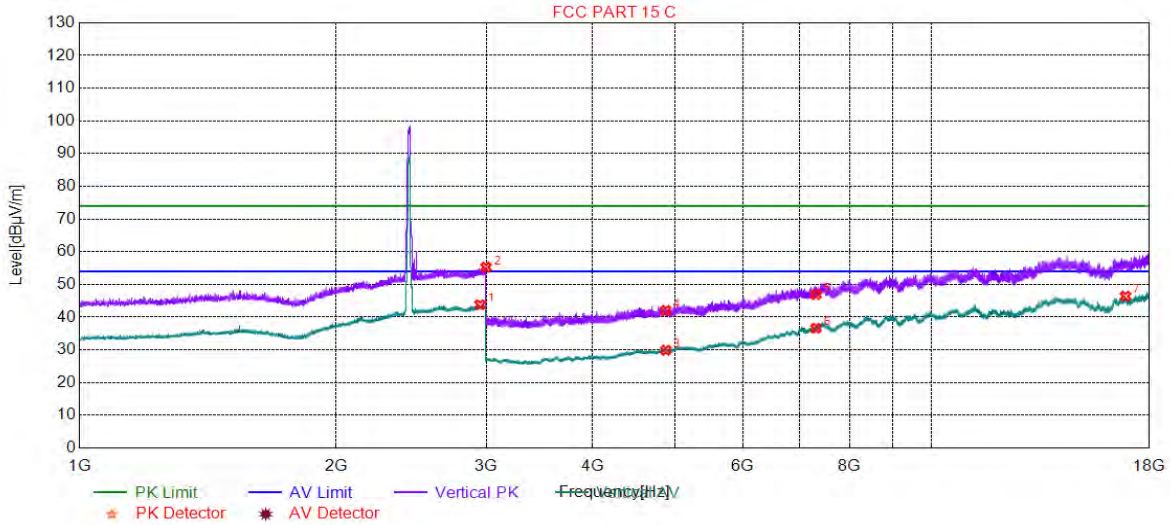
4.9.2.10 802.11G_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.48	43.82	9.68	54.00	10.18	150	114	Vertical
2	2998.49	55.28	9.46	74.00	18.72	150	251	Vertical
3	4874.00	29.89	-17.99	54.00	24.11	150	13	Vertical
4	4874.00	42.04	-17.99	74.00	31.96	150	68	Vertical
5	7311.00	46.95	-9.74	74.00	27.05	150	217	Vertical
6	7311.00	36.64	-9.74	54.00	17.36	150	18	Vertical
7	16871.3	46.41	1.03	54.00	7.59	150	318	Vertical

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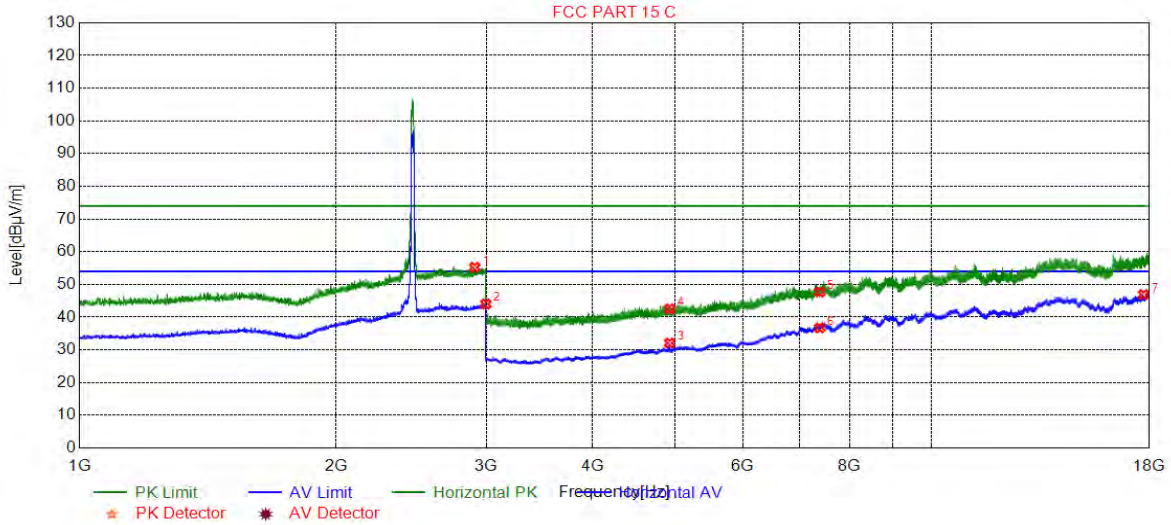
4.9.2.11 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2907.97	55.25	9.23	74.00	18.75	150	292	Horizontal
2	2996.99	44.03	9.46	54.00	9.97	150	250	Horizontal
3	4924.00	32.10	-17.72	54.00	21.90	150	288	Horizontal
4	4924.00	42.56	-17.72	74.00	31.44	150	232	Horizontal
5	7386.00	47.70	-9.55	74.00	26.30	150	68	Horizontal
6	7386.00	36.75	-9.55	54.00	17.25	150	270	Horizontal
7	17712.8	46.91	1.10	54.00	7.09	150	119	Horizontal

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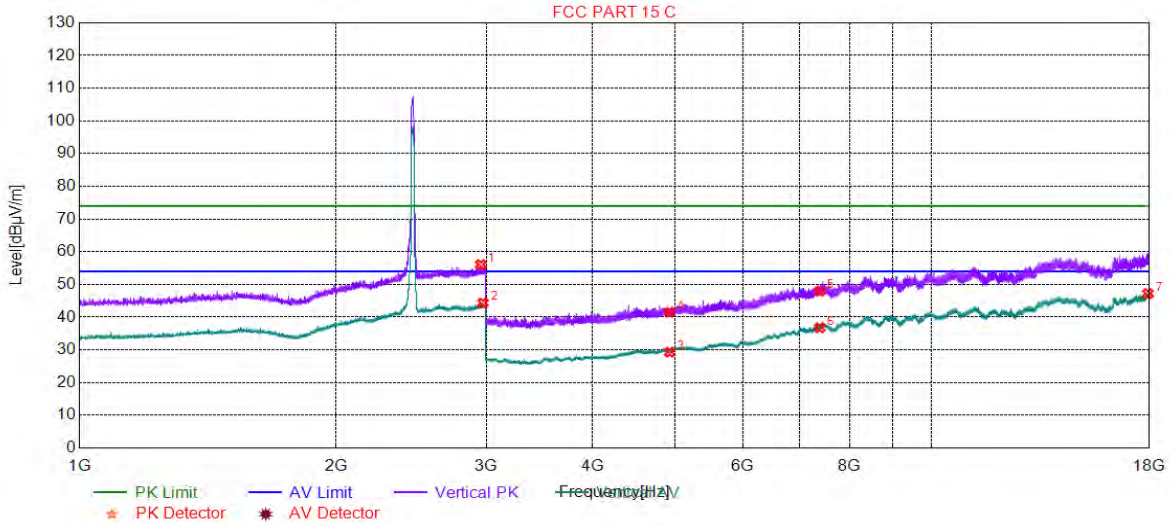
4.9.2.12 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2955.98	56.08	9.65	74.00	17.92	150	342	Vertical
2	2973.49	44.36	9.57	54.00	9.64	150	2	Vertical
3	4924.00	29.30	-17.72	54.00	24.70	150	342	Vertical
4	4924.00	41.51	-17.72	74.00	32.49	150	122	Vertical
5	7386.00	47.93	-9.55	74.00	26.07	150	118	Vertical
6	7386.00	36.77	-9.55	54.00	17.23	150	269	Vertical
7	17923.5	47.24	0.70	54.00	6.76	150	269	Vertical

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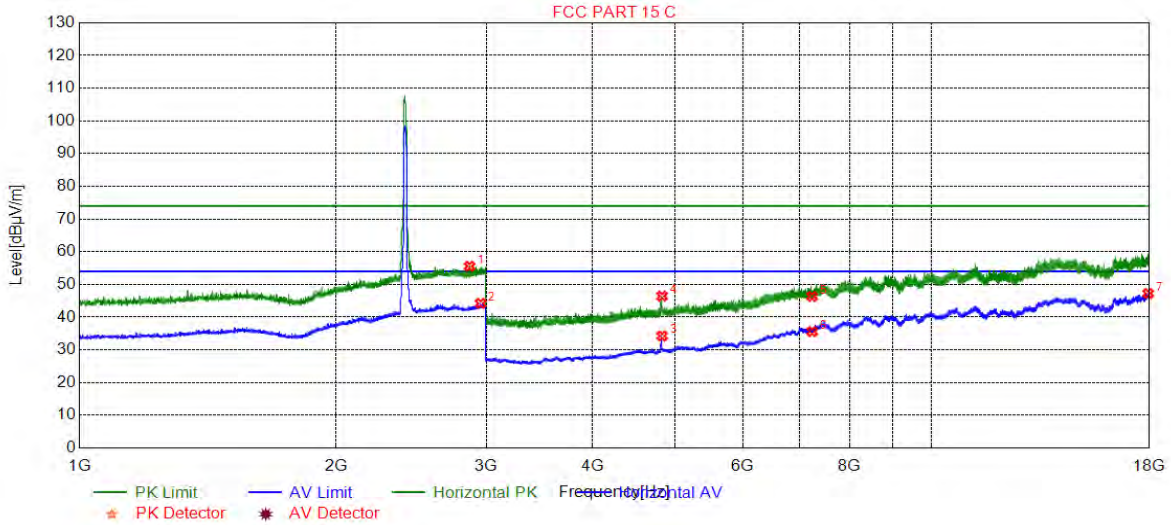
4.9.2.13 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
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1	2867.96	55.58	9.20	74.00	18.42	150	18	Horizontal
2	2954.48	44.22	9.66	54.00	9.78	150	99	Horizontal
3	4824.00	34.27	-18.21	54.00	19.73	150	261	Horizontal
4	4824.00	46.44	-18.21	74.00	27.56	150	234	Horizontal
5	7236.00	46.34	-9.99	74.00	27.66	150	360	Horizontal
6	7236.00	35.62	-9.99	54.00	18.38	150	68	Horizontal
7	17936.7	47.25	0.70	54.00	6.75	150	270	Horizontal

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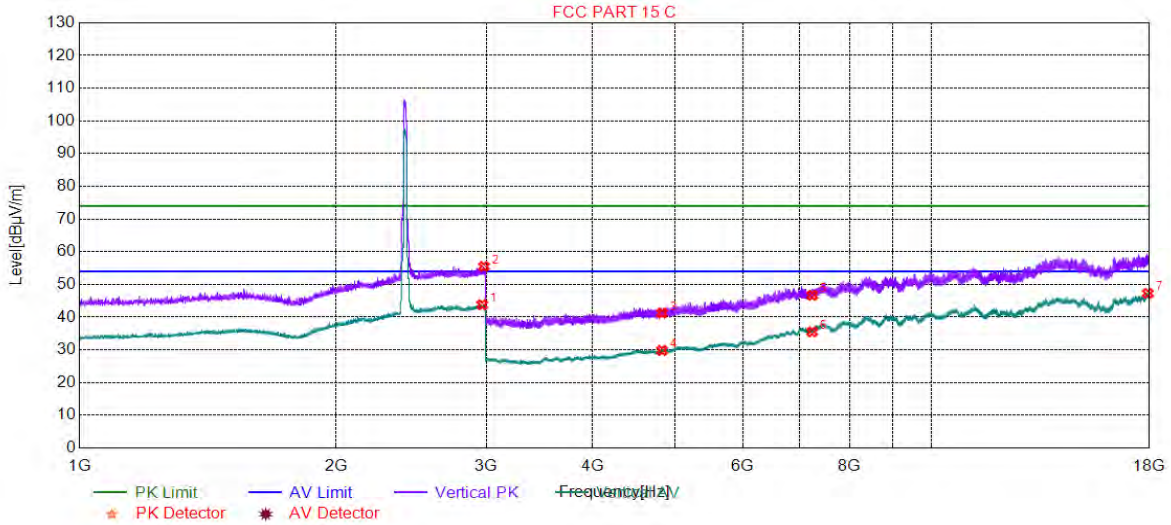
4.9.2.14 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2966.99	43.81	9.60	54.00	10.19	150	287	Vertical
2	2981.99	55.52	9.53	74.00	18.48	150	274	Vertical
3	4824.00	41.25	-18.21	74.00	32.75	150	149	Vertical
4	4824.00	29.84	-18.21	54.00	24.16	150	204	Vertical
5	7236.00	46.68	-9.99	74.00	27.32	150	68	Vertical
6	7236.00	35.53	-9.99	54.00	18.47	150	169	Vertical
7	17921.8	47.29	0.70	54.00	6.71	150	68	Vertical

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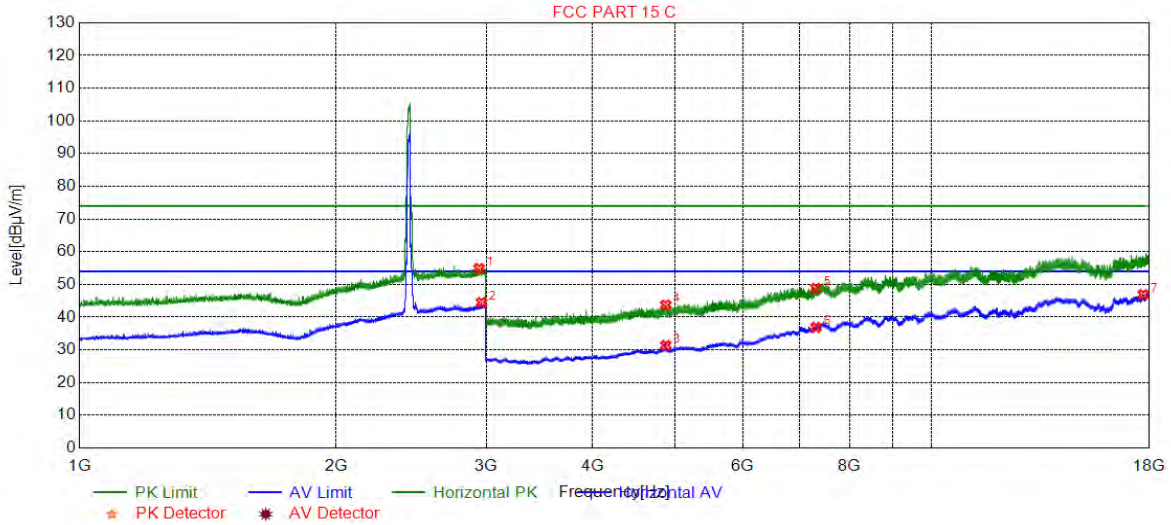
4.9.2.15 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.98	54.90	9.60	74.00	19.10	150	0	Horizontal
2	2962.49	44.52	9.62	54.00	9.48	150	151	Horizontal
3	4874.00	31.40	-17.99	54.00	22.60	150	287	Horizontal
4	4874.00	43.74	-17.99	74.00	30.26	150	259	Horizontal
5	7311.00	48.82	-9.74	74.00	25.18	150	320	Horizontal
6	7311.00	36.90	-9.74	54.00	17.10	150	360	Horizontal
7	17700.2	46.92	1.36	54.00	7.08	150	320	Horizontal

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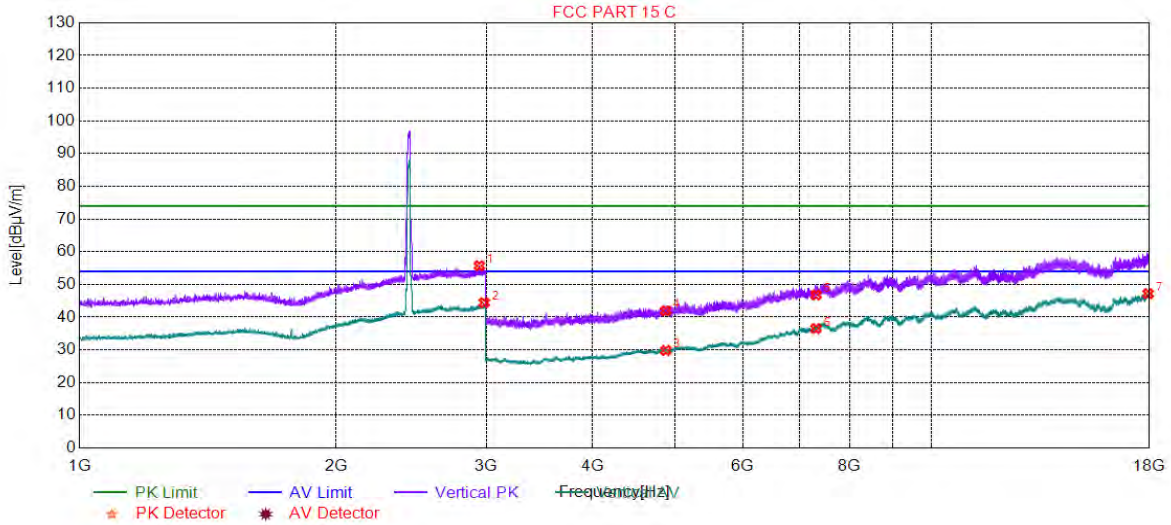
4.9.2.16 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2945.48	55.75	9.63	74.00	18.25	150	194	Vertical
2	2983.49	44.46	9.53	54.00	9.54	150	317	Vertical
3	4874.00	29.82	-17.99	54.00	24.18	150	178	Vertical
4	4874.00	41.96	-17.99	74.00	32.04	150	205	Vertical
5	7311.00	46.78	-9.74	74.00	27.22	150	169	Vertical
6	7311.00	36.52	-9.74	54.00	17.48	150	360	Vertical
7	17932.3	47.18	0.70	54.00	6.82	150	319	Vertical

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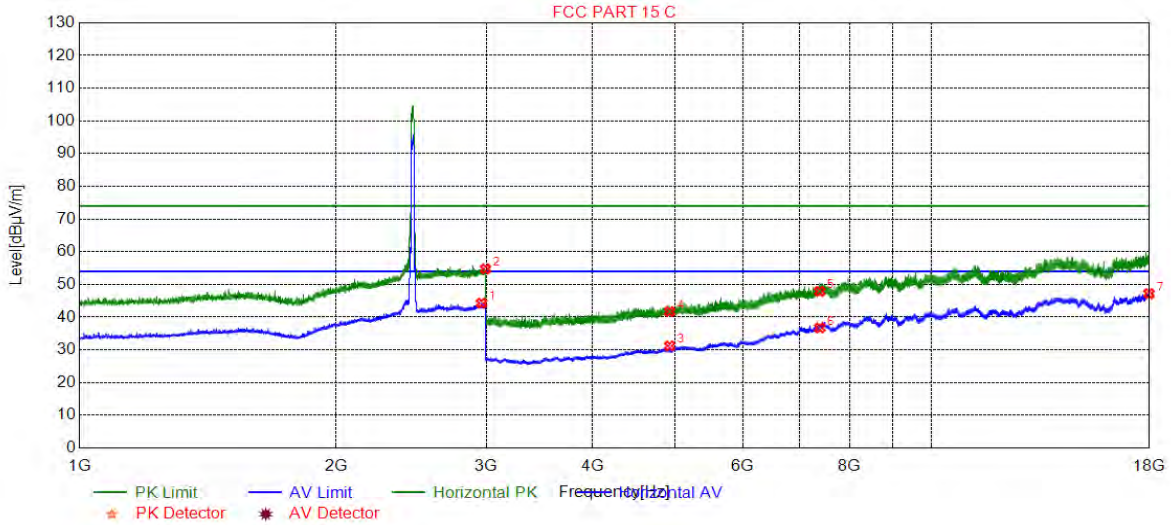
4.9.2.17 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2962.49	44.30	9.62	54.00	9.70	150	60	Horizontal
2	2994.49	54.77	9.48	74.00	19.23	150	18	Horizontal
3	4924.00	31.23	-17.72	54.00	22.77	150	260	Horizontal
4	4924.00	41.72	-17.72	74.00	32.28	150	342	Horizontal
5	7386.00	47.88	-9.55	74.00	26.12	150	68	Horizontal
6	7386.00	36.74	-9.55	54.00	17.26	150	319	Horizontal
7	17975.7	47.18	0.71	54.00	6.82	150	218	Horizontal

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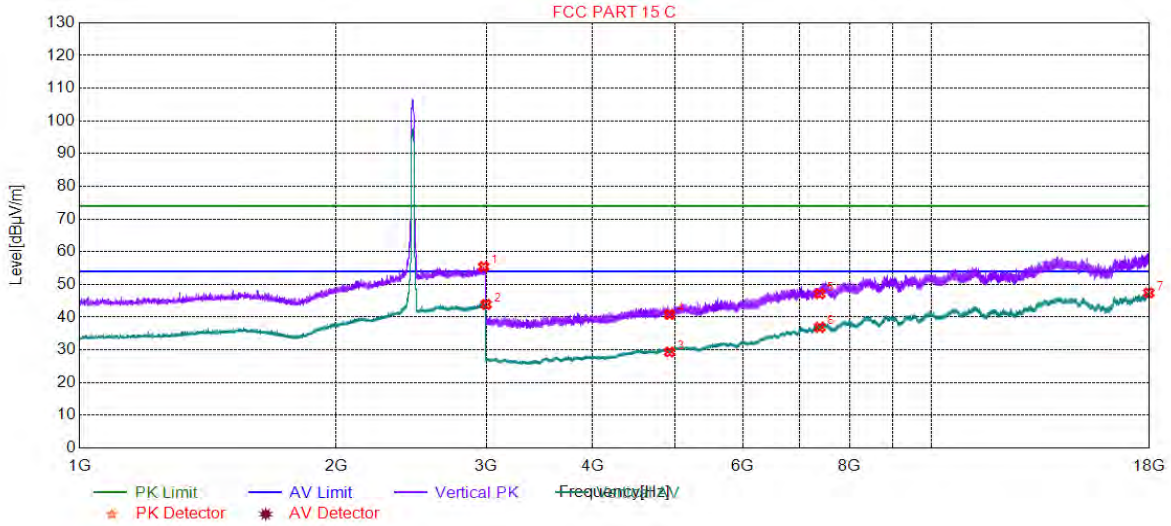
4.9.2.18 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2979.99	55.42	9.54	74.00	18.58	150	123	Vertical
2	2998.99	43.90	9.45	54.00	10.10	150	247	Vertical
3	4924.00	29.36	-17.72	54.00	24.64	150	93	Vertical
4	4924.00	40.83	-17.72	74.00	33.17	150	93	Vertical
5	7386.00	47.16	-9.55	74.00	26.84	150	360	Vertical
6	7386.00	36.92	-9.55	54.00	17.08	150	360	Vertical
7	17961.4	47.46	0.71	54.00	6.54	150	270	Vertical

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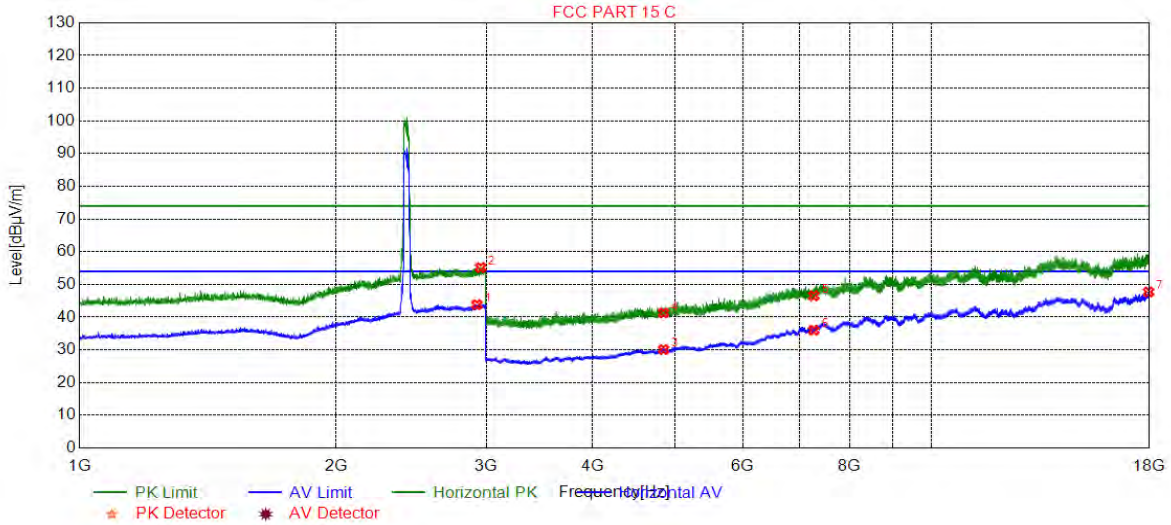
4.9.2.19 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2925.48	43.84	9.42	54.00	10.16	150	18	Horizontal
2	2954.98	55.18	9.66	74.00	18.82	150	128	Horizontal
3	4844.00	30.12	-18.13	54.00	23.88	150	260	Horizontal
4	4844.00	41.29	-18.13	74.00	32.71	150	287	Horizontal
5	7266.00	46.54	-9.88	74.00	27.46	150	360	Horizontal
6	7266.00	36.02	-9.88	54.00	17.98	150	269	Horizontal
7	17951.5	47.73	0.71	54.00	6.27	150	360	Horizontal

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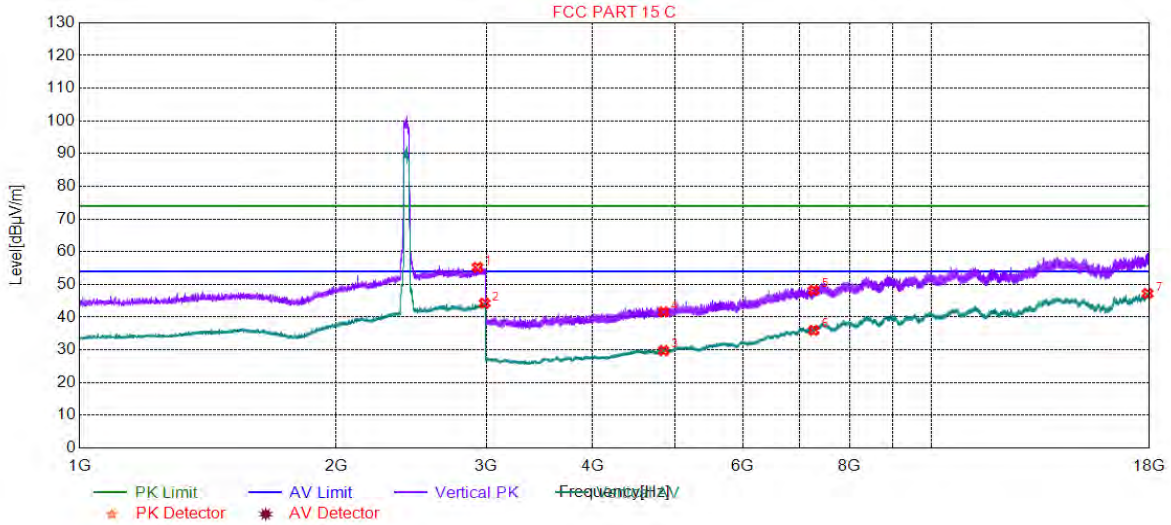
4.9.2.20 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2930.98	55.22	9.47	74.00	18.78	150	191	Vertical
2	2987.49	44.27	9.51	54.00	9.73	150	314	Vertical
3	4844.00	29.77	-18.13	54.00	24.23	150	315	Vertical
4	4844.00	41.61	-18.13	74.00	32.39	150	315	Vertical
5	7266.00	48.19	-9.88	74.00	25.81	150	119	Vertical
6	7266.00	35.97	-9.88	54.00	18.03	150	18	Vertical
7	17908.6	47.25	0.69	54.00	6.75	150	68	Vertical

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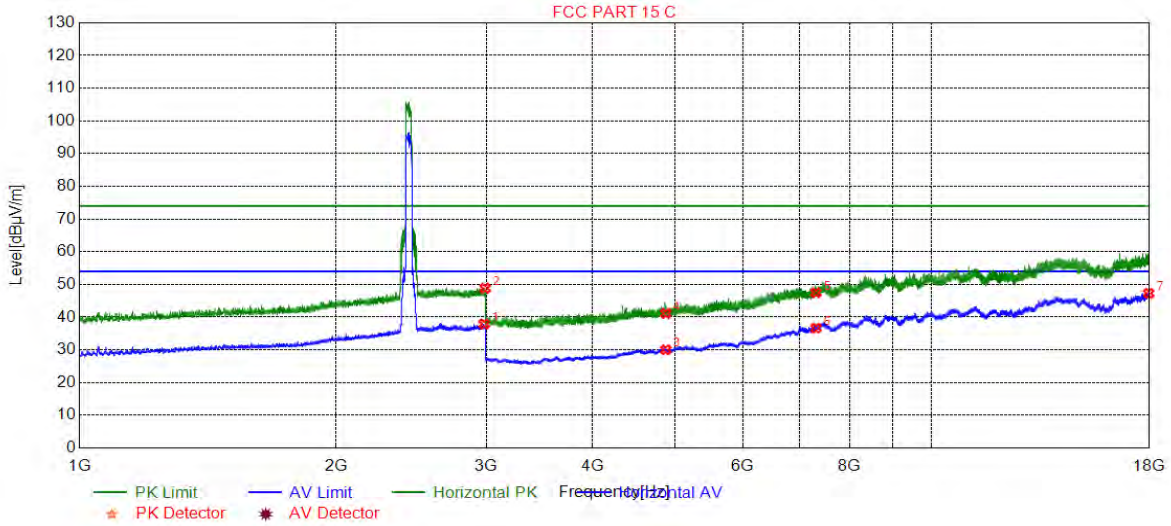
4.9.2.21 802.11N40_ Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2983.49	37.93	2.32	54.00	16.07	150	13	Horizontal
2	2990.49	48.85	2.32	74.00	25.15	150	83	Horizontal
3	4874.00	30.03	-17.99	54.00	23.97	150	227	Horizontal
4	4874.00	41.13	-17.99	74.00	32.87	150	145	Horizontal
5	7311.00	47.48	-9.74	74.00	26.52	150	269	Horizontal
6	7311.00	36.65	-9.74	54.00	17.35	150	118	Horizontal
7	17961.4	47.29	0.71	54.00	6.71	150	269	Horizontal

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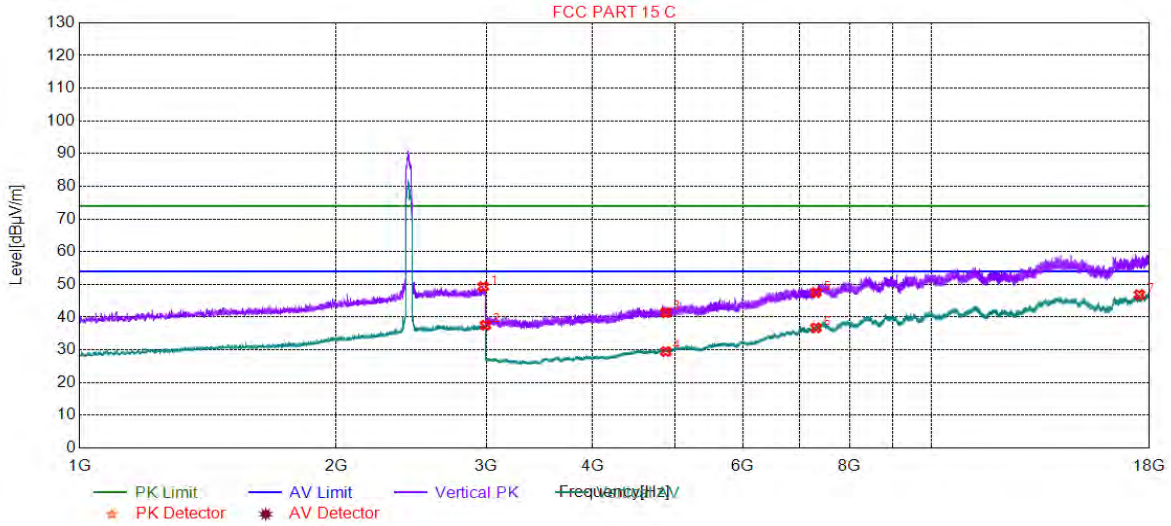
4.9.2.22 802.11N40_ Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2975.99	49.33	2.31	74.00	24.67	150	127	Vertical
2	2993.49	37.53	2.33	54.00	16.47	150	174	Vertical
3	4874.00	41.37	-17.99	74.00	32.63	150	259	Vertical
4	4874.00	29.49	-17.99	54.00	24.51	150	95	Vertical
5	7311.00	47.54	-9.74	74.00	26.46	150	18	Vertical
6	7311.00	36.74	-9.74	54.00	17.26	150	18	Vertical
7	17518.7	46.89	0.99	54.00	7.11	150	174	Vertical

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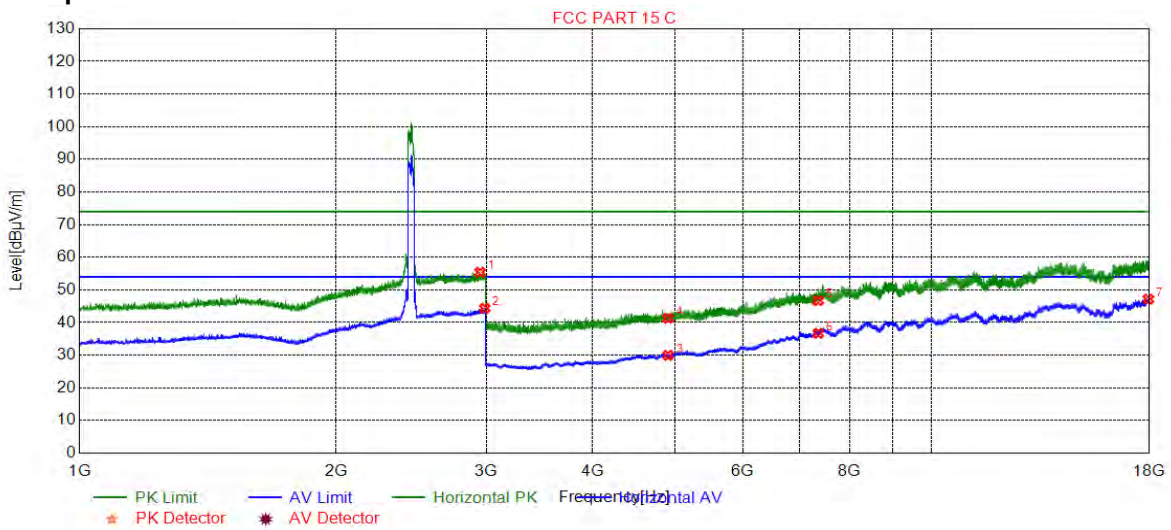
4.9.2.23 802.11N40_Channel 9

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	55.41	9.68	74.00	18.59	150	127	Horizontal
2	2987.99	44.39	9.51	54.00	9.61	150	58	Horizontal
3	4904.00	29.97	-17.85	54.00	24.03	150	0	Horizontal
4	4904.00	41.32	-17.85	74.00	32.68	150	42	Horizontal
5	7356.00	46.75	-9.62	74.00	27.25	150	68	Horizontal
6	7356.00	36.72	-9.62	54.00	17.28	150	360	Horizontal
7	17947.1	47.17	0.70	54.00	6.83	150	218	Horizontal

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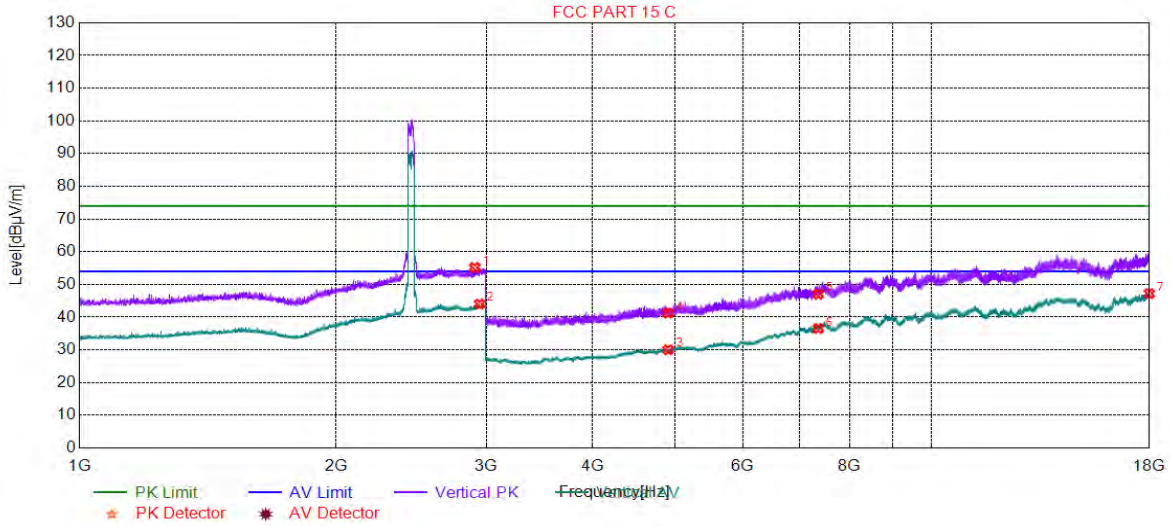
4.9.2.24 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2907.97	55.19	9.23	74.00	18.81	150	1	Vertical
2	2946.48	44.04	9.64	54.00	9.96	150	204	Vertical
3	4904.00	30.04	-17.85	54.00	23.96	150	205	Vertical
4	4904.00	41.22	-17.85	74.00	32.78	150	123	Vertical
5	7356.00	47.04	-9.62	74.00	26.96	150	119	Vertical
6	7356.00	36.54	-9.62	54.00	17.46	150	119	Vertical
7	17989.5	47.20	0.72	54.00	6.80	150	170	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:

   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:			

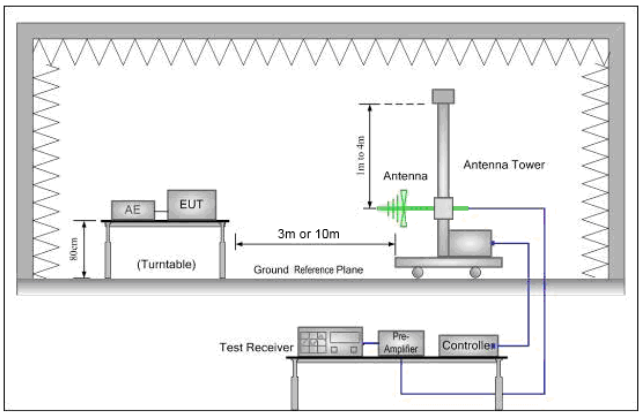

Figure 1. 30MHz to 1GHz

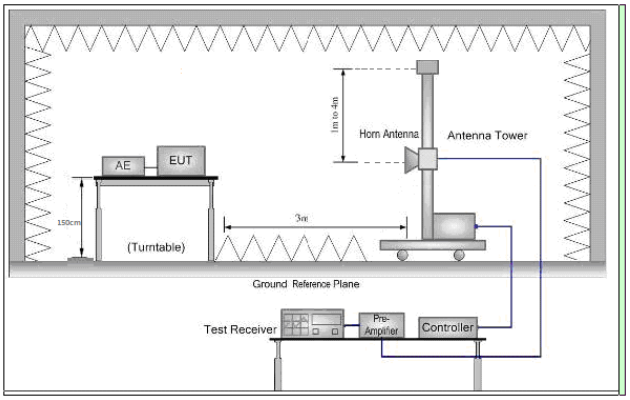

Figure 2. Above 1 GHz

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Test Procedure:	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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge +Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40). Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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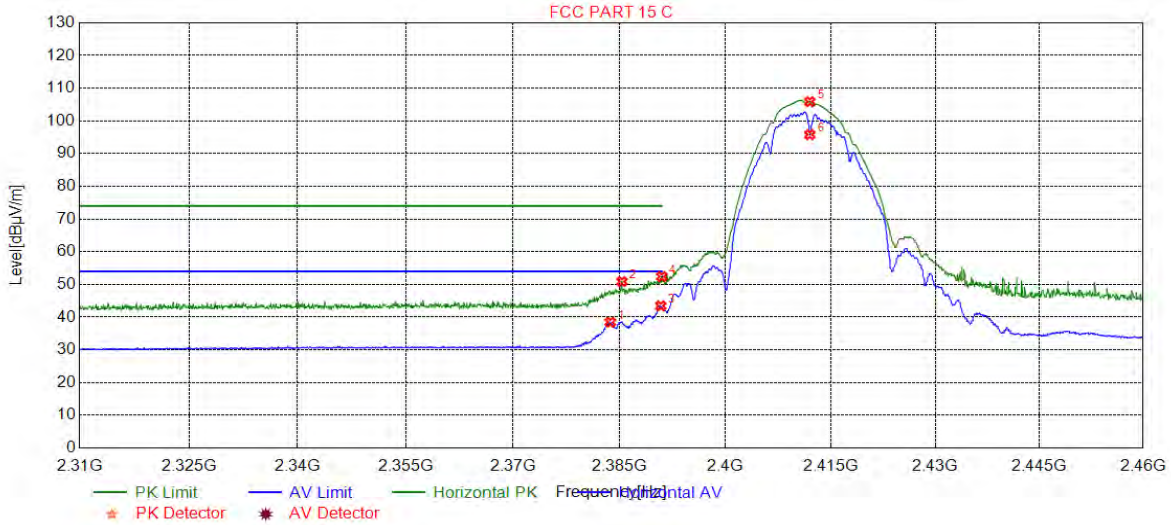
Test plot as follows:

4.10.1 Restricted bands around fundamental frequency

MIMO:

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	2383.68	38.47	7.78	54.00	15.53	150	68	Horizontal
2	2385.33	50.90	7.77	74.00	23.10	150	79	Horizontal
3	2390.81	43.46	7.77	54.00	10.54	150	62	Horizontal
4	2390.96	52.42	7.77	74.00	21.58	150	57	Horizontal
5	2412.00	105.88	7.81	0.00	-105.88	150	189	Horizontal
6	2412.00	95.81	7.81	0.00	-95.81	150	189	Horizontal

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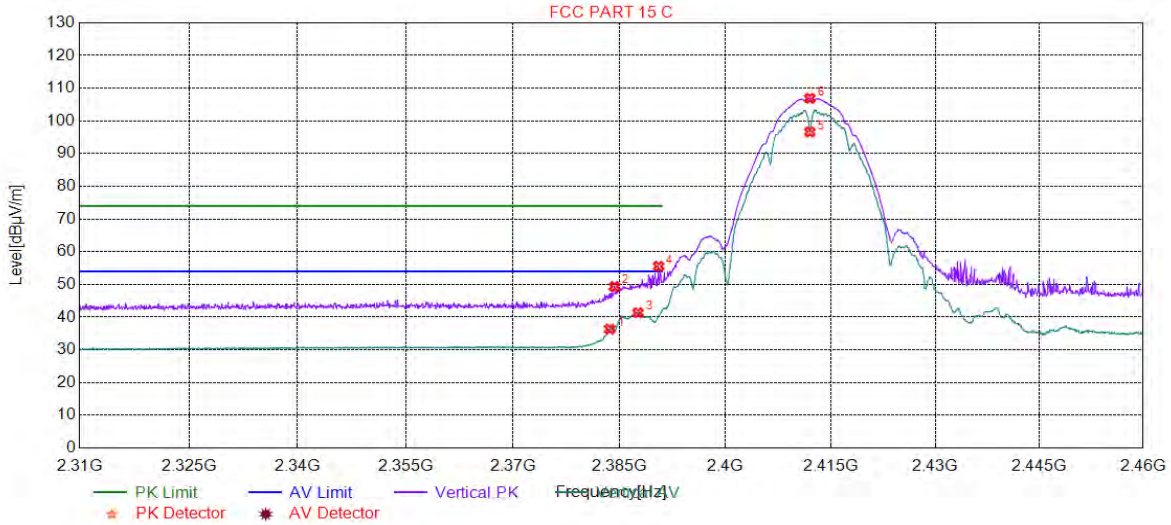
4.10.1.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.61	36.37	7.78	54.00	17.63	150	341	Vertical
2	2384.28	49.37	7.78	74.00	24.63	150	336	Vertical
3	2387.58	41.37	7.77	54.00	12.63	150	341	Vertical
4	2390.51	55.54	7.77	74.00	18.46	150	341	Vertical
5	2412.00	96.63	7.81	0.00	-96.63	150	304	Vertical
6	2412.00	106.93	7.81	0.00	-106.93	150	304	Vertical

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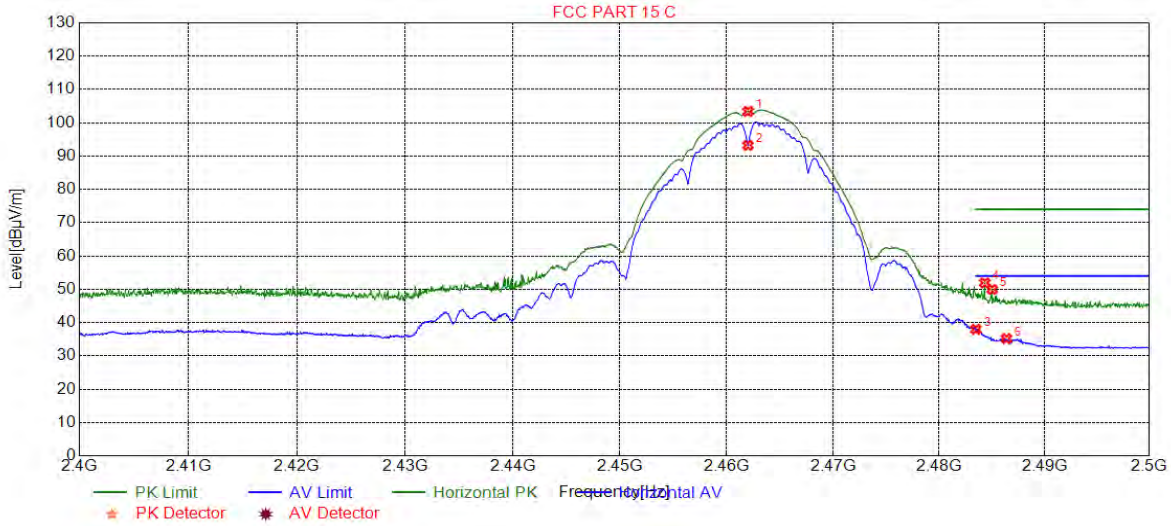
4.10.1.3 802.11B_Channel 11

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	103.39	7.98	0.00	-103.39	150	63	Horizontal
2	2462.00	93.22	7.98	0.00	-93.22	150	63	Horizontal
3	2483.50	38.01	8.01	54.00	15.99	150	228	Horizontal
4	2484.34	51.94	8.01	74.00	22.06	150	233	Horizontal
5	2485.04	49.98	8.01	74.00	24.02	150	162	Horizontal
6	2486.39	35.22	8.01	54.00	18.78	150	228	Horizontal

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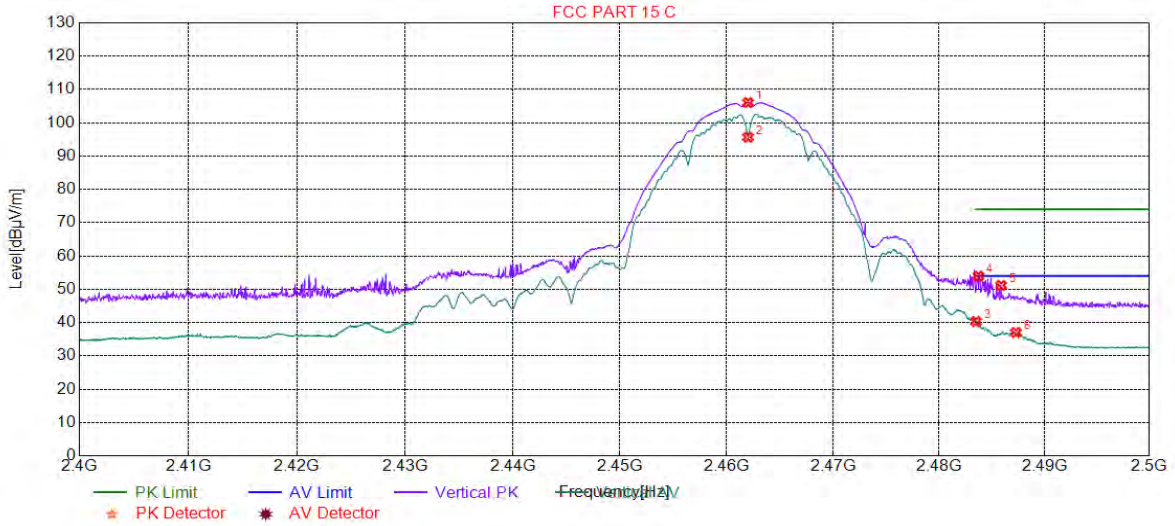
4.10.1.4 802.11B_Channel 11

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	106.05	7.98	0.00	-106.05	150	320	Vertical
2	2462.00	95.68	7.98	0.00	-95.68	150	320	Vertical
3	2483.50	40.33	8.01	54.00	13.67	150	325	Vertical
4	2483.74	53.98	8.01	74.00	20.02	150	346	Vertical
5	2485.89	51.19	8.01	74.00	22.81	150	320	Vertical
6	2487.29	37.06	8.01	54.00	16.94	150	320	Vertical

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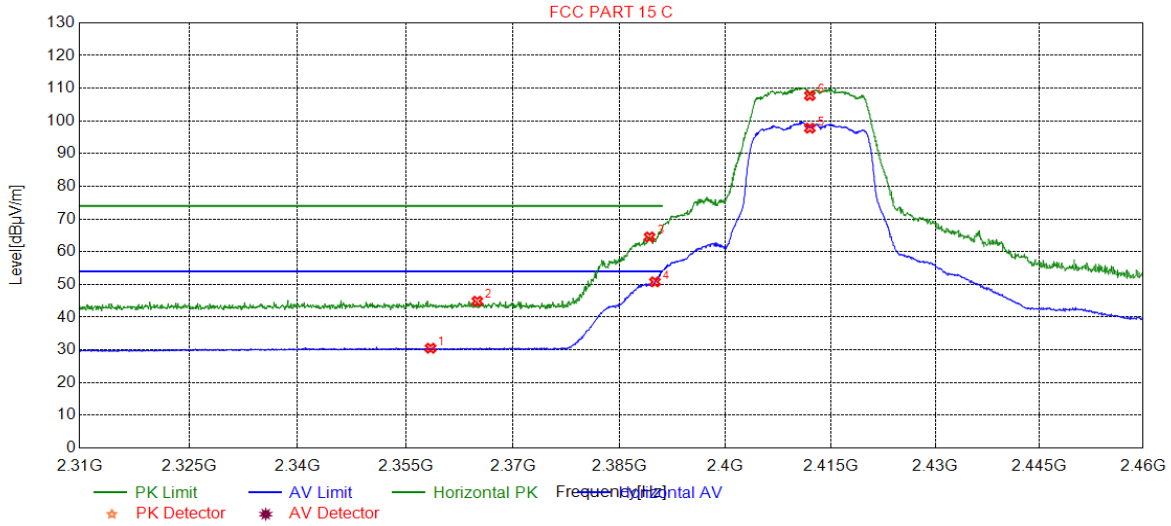
4.10.1.5 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
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1	2358.47	30.52	7.80	54.00	23.48	150	258	Horizontal
2	2365.00	44.90	7.79	74.00	29.10	150	102	Horizontal
3	2389.23	64.53	7.77	74.00	9.47	150	258	Horizontal
4	2390.00	50.81	7.77	54.00	3.19	150	258	Horizontal
5	2412.00	97.79	7.81	0.00	-97.79	150	74	Horizontal
6	2412.00	107.76	7.81	0.00	-107.76	150	85	Horizontal

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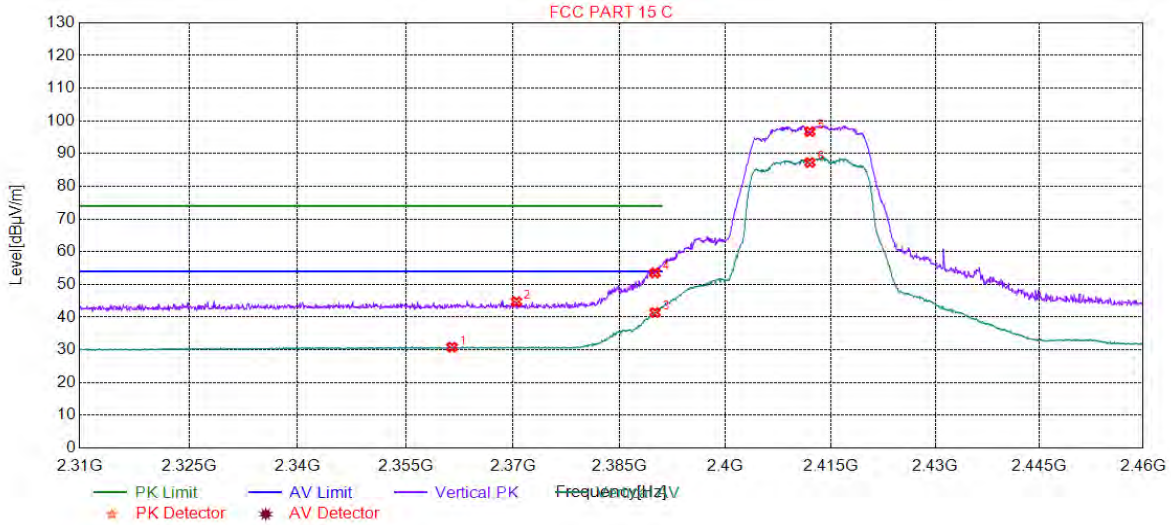
4.10.1.6 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.47	30.84	7.80	54.00	23.16	150	34	Vertical
2	2370.48	44.73	7.79	74.00	29.27	150	346	Vertical
3	2390.00	41.41	7.77	54.00	12.59	150	222	Vertical
4	2390.00	53.54	7.77	74.00	20.46	150	194	Vertical
5	2412.00	96.72	7.81	0.00	-96.72	150	194	Vertical
6	2412.00	87.27	7.81	0.00	-87.27	150	194	Vertical

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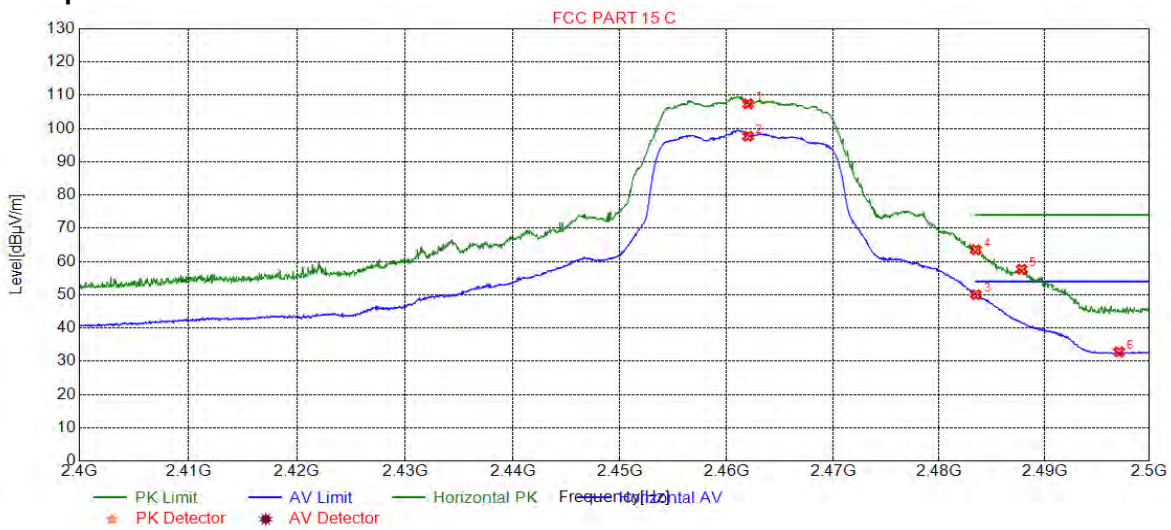
4.10.1.7 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
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1	2462.00	107.45	7.98	0.00	-107.45	150	239	Horizontal
2	2462.00	97.70	7.98	0.00	-97.70	150	239	Horizontal
3	2483.50	50.03	8.01	54.00	3.97	150	239	Horizontal
4	2483.50	63.54	8.01	74.00	10.46	150	316	Horizontal
5	2487.84	57.71	8.02	74.00	16.29	150	316	Horizontal
6	2497.09	32.85	8.03	54.00	21.15	150	344	Horizontal

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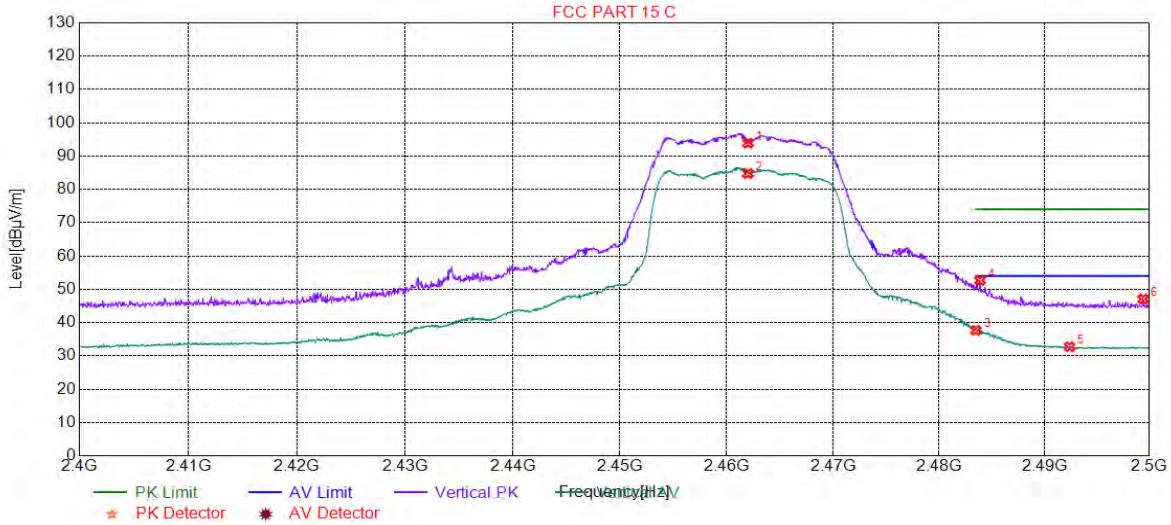
4.10.1.8 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
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1	2462.00	93.91	7.98	0.00	-93.91	150	237	Vertical
2	2462.00	84.79	7.98	0.00	-84.79	150	243	Vertical
3	2483.50	37.71	8.01	54.00	16.29	150	243	Vertical
4	2483.89	52.69	8.01	74.00	21.31	150	215	Vertical
5	2492.39	32.78	8.02	54.00	21.22	150	204	Vertical
6	2499.39	47.11	8.03	74.00	26.89	150	33	Vertical

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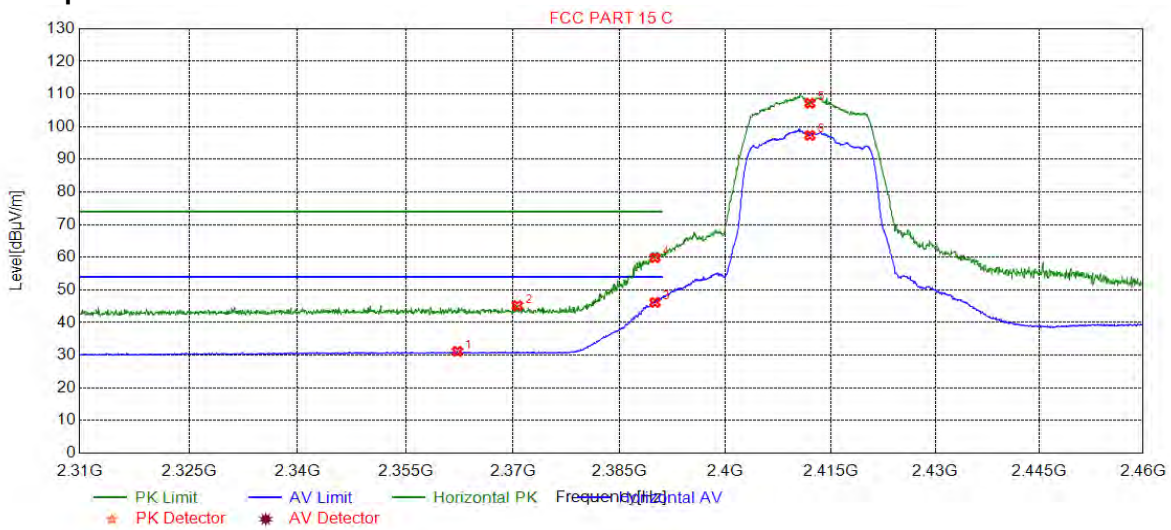
4.10.1.9 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
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1	2362.22	31.18	7.80	54.00	22.82	150	57	Horizontal
2	2370.63	45.18	7.79	74.00	28.82	150	238	Horizontal
3	2390.00	46.17	7.77	54.00	7.83	150	205	Horizontal
4	2390.00	59.90	7.77	74.00	14.10	150	210	Horizontal
5	2412.00	107.18	7.81	0.00	-107.18	150	62	Horizontal
6	2412.00	97.32	7.81	0.00	-97.32	150	57	Horizontal

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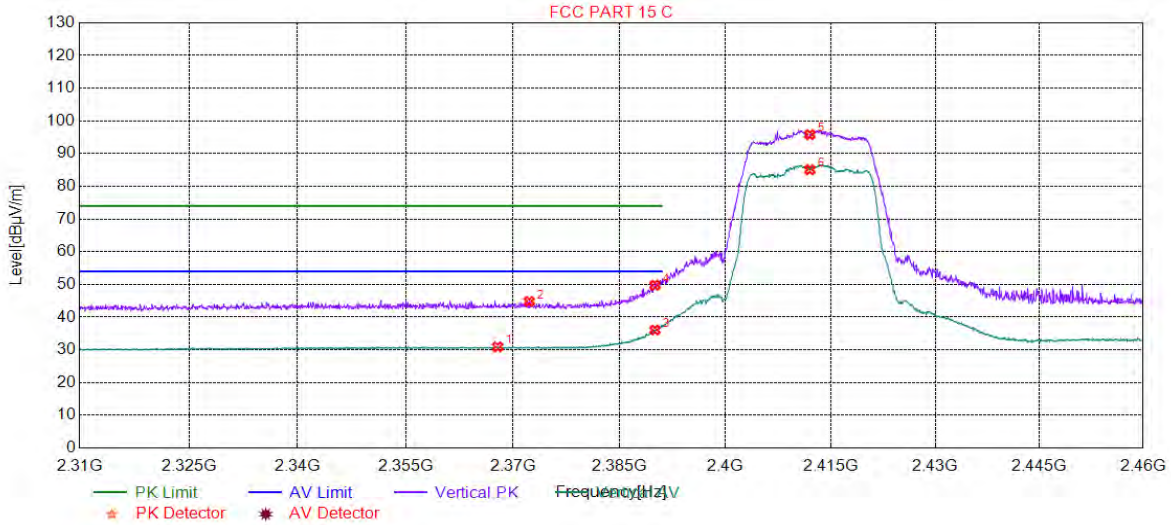
4.10.1.10 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.85	30.94	7.79	54.00	23.06	150	346	Vertical
2	2372.28	44.82	7.79	74.00	29.18	150	244	Vertical
3	2390.00	36.08	7.77	54.00	17.92	150	145	Vertical
4	2390.00	49.81	7.77	74.00	24.19	150	249	Vertical
5	2412.00	95.81	7.81	0.00	-95.81	150	139	Vertical
6	2412.00	85.09	7.81	0.00	-85.09	150	145	Vertical

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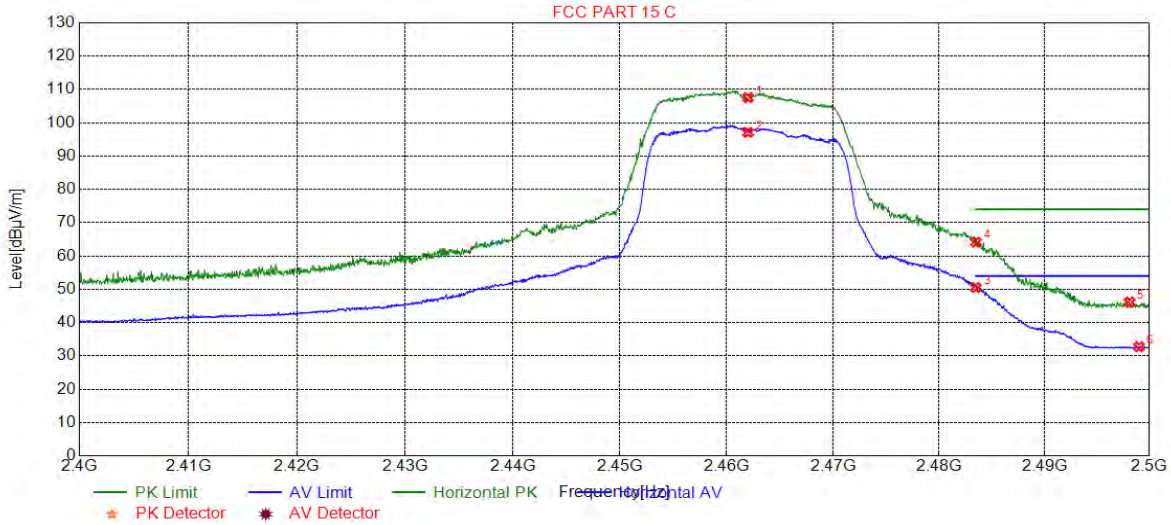
4.10.1.11 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	107.56	7.98	0.00	-107.56	150	250	Horizontal
2	2462.00	97.12	7.98	0.00	-97.12	150	245	Horizontal
3	2483.50	50.54	8.01	54.00	3.46	150	256	Horizontal
4	2483.50	64.16	8.01	74.00	9.84	150	261	Horizontal
5	2498.09	46.16	8.03	74.00	27.84	150	63	Horizontal
6	2498.99	32.79	8.03	54.00	21.21	150	288	Horizontal

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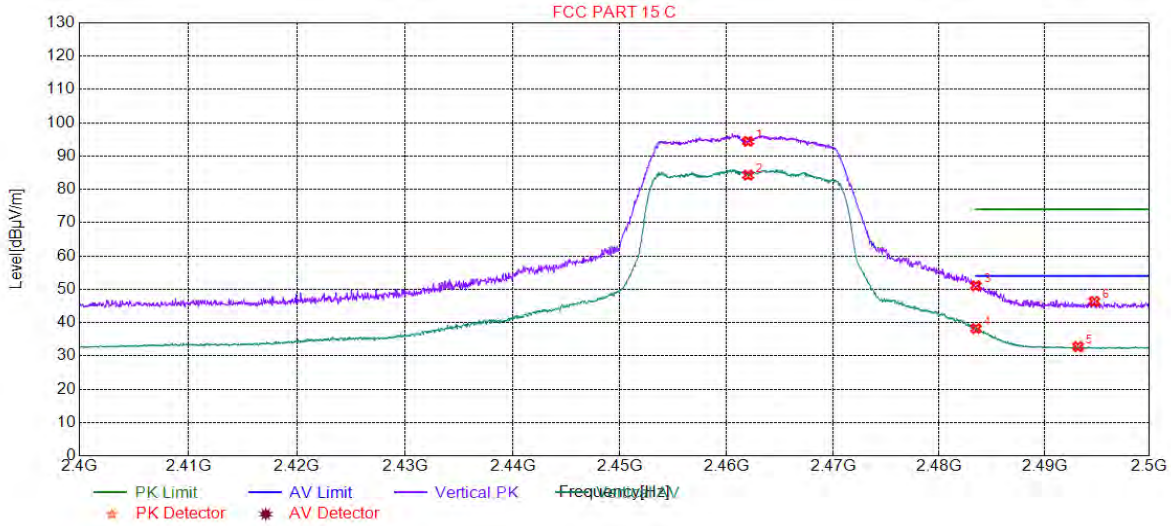
4.10.1.12 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	94.42	7.98	0.00	-94.42	150	197	Vertical
2	2462.00	84.28	7.98	0.00	-84.28	150	197	Vertical
3	2483.50	51.06	8.01	74.00	22.94	150	115	Vertical
4	2483.50	38.22	8.01	54.00	15.78	150	208	Vertical
5	2493.19	32.82	8.02	54.00	21.18	150	292	Vertical
6	2494.74	46.38	8.02	74.00	27.62	150	39	Vertical

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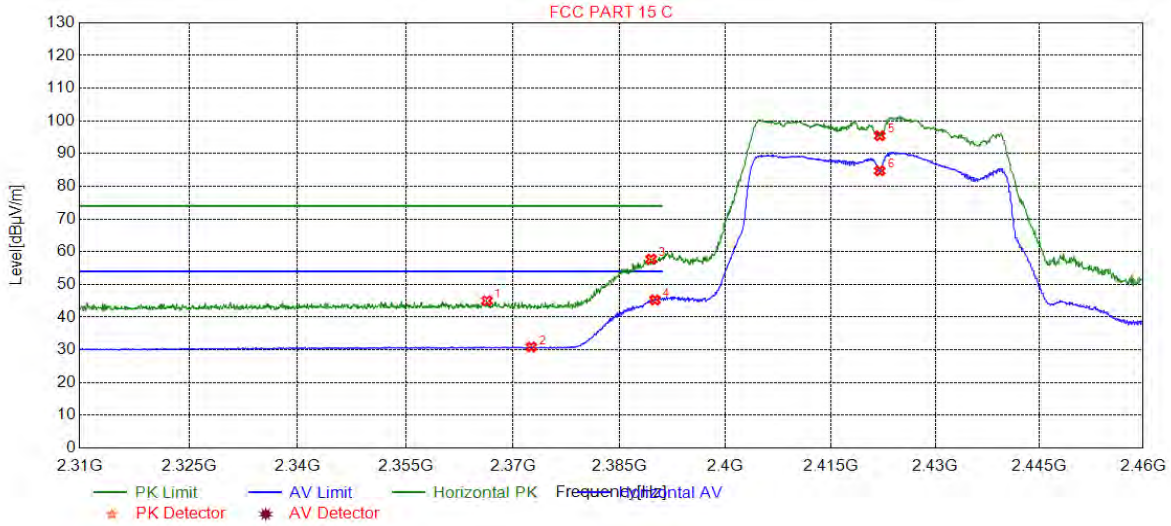
4.10.1.13 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.35	45.03	7.79	74.00	28.97	150	211	Horizontal
2	2372.58	30.90	7.79	54.00	23.10	150	19	Horizontal
3	2389.46	57.77	7.77	74.00	16.23	150	46	Horizontal
4	2390.00	45.28	7.77	54.00	8.72	150	40	Horizontal
5	2422.00	95.46	7.85	0.00	-95.46	150	46	Horizontal
6	2422.00	84.74	7.85	0.00	-84.74	150	40	Horizontal

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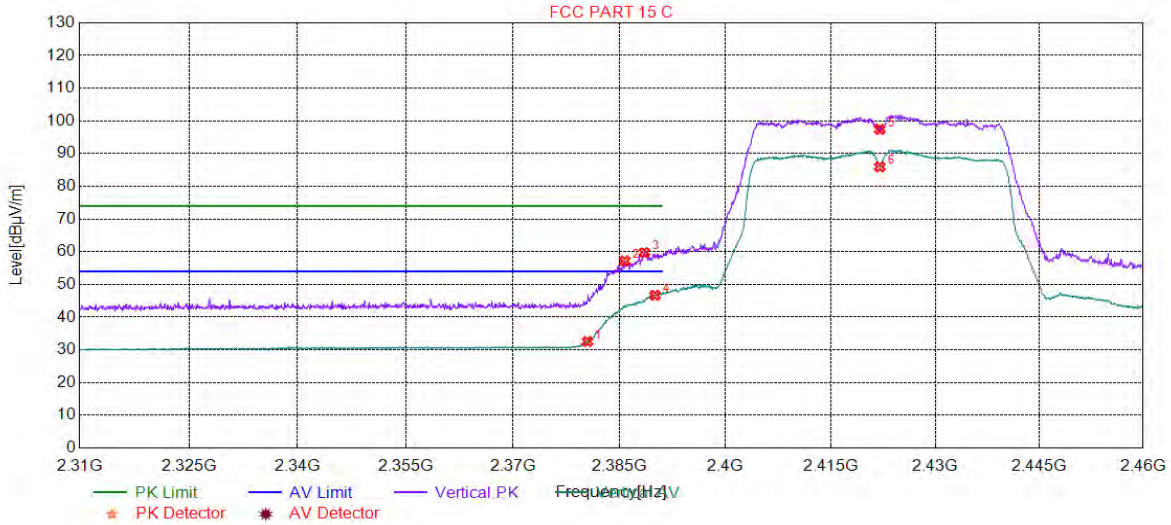
4.10.1.14 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.46	32.55	7.78	54.00	21.45	150	63	Vertical
2	2385.71	57.20	7.77	74.00	16.80	150	303	Vertical
3	2388.48	59.82	7.77	74.00	14.18	150	325	Vertical
4	2390.00	46.71	7.77	54.00	7.29	150	303	Vertical
5	2422.00	97.48	7.85	0.00	-97.48	150	319	Vertical
6	2422.00	85.95	7.85	0.00	-85.95	150	325	Vertical

Final Data List

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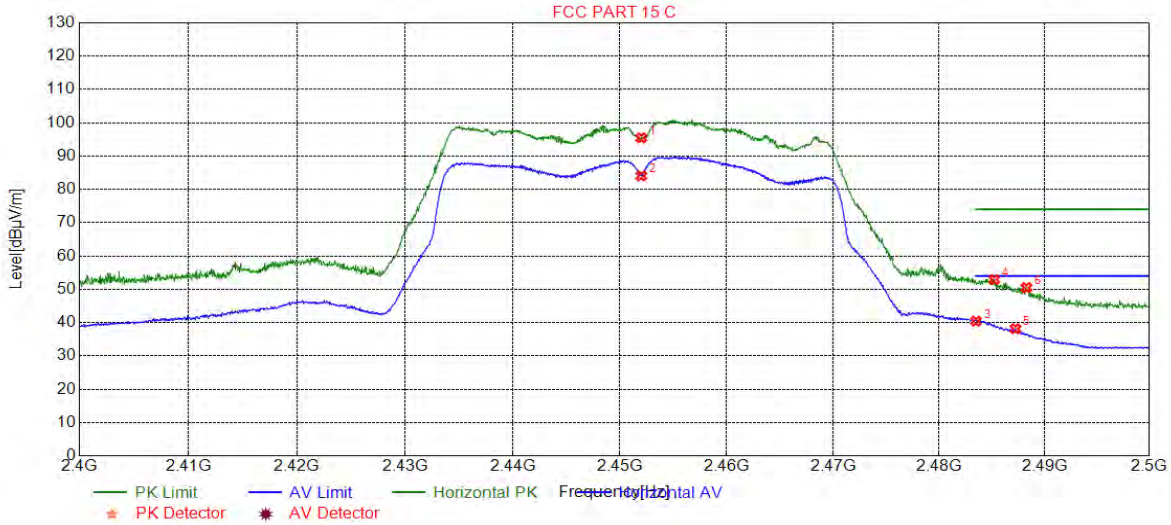
4.10.1.15 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	95.47	7.97	0.00	-95.47	150	51	Horizontal
2	2452.00	84.08	7.97	0.00	-84.08	150	46	Horizontal
3	2483.50	40.45	8.01	54.00	13.55	150	62	Horizontal
4	2485.24	52.93	8.01	74.00	21.07	150	229	Horizontal
5	2487.24	38.19	8.01	54.00	15.81	150	68	Horizontal
6	2488.29	50.53	8.02	74.00	23.47	150	57	Horizontal

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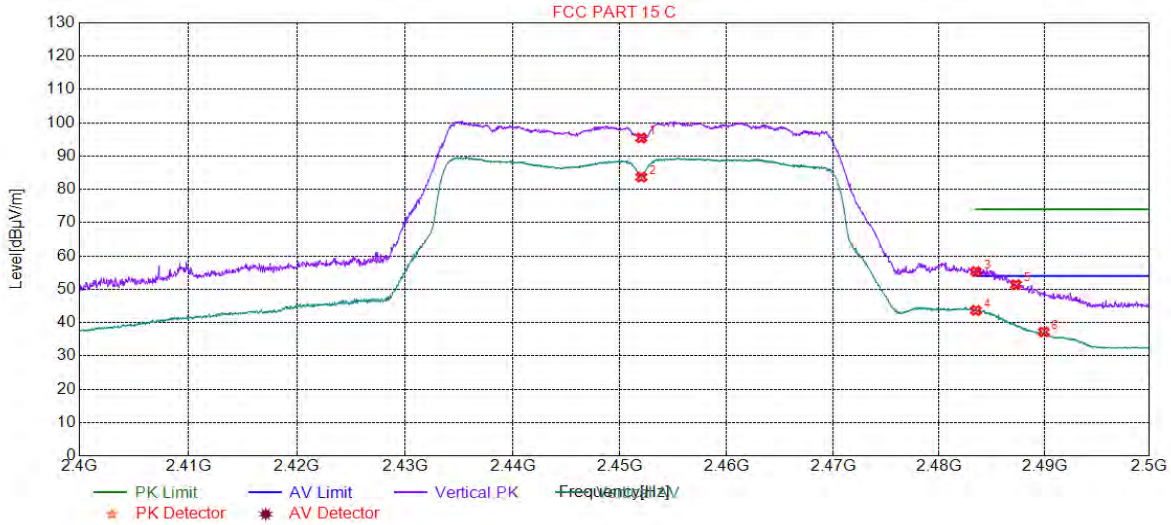
4.10.1.16 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	95.43	7.97	0.00	-95.43	150	298	Vertical
2	2452.00	83.69	7.97	0.00	-83.69	150	320	Vertical
3	2483.50	55.34	8.01	74.00	18.66	150	314	Vertical
4	2483.50	43.65	8.01	54.00	10.35	150	320	Vertical
5	2487.29	51.39	8.01	74.00	22.61	150	320	Vertical
6	2489.94	37.24	8.02	54.00	16.76	150	320	Vertical

Final Data List

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
All Modes have been tested, but only the worst case data displayed in this report.

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

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

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6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2023/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/4/1	2021/3/31
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14

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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	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	2020/6/12	2021/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/12	2021/3/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
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	2020/7/14	2021/7/14
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	2020/3/2	2021/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1

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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	2020/3/2	2021/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2020/3/15	2022/3/14
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2020/3/12	2021/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2020/8/21	2023/8/20
				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	2020/6/12	2021/6/11

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/60037.

The End

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