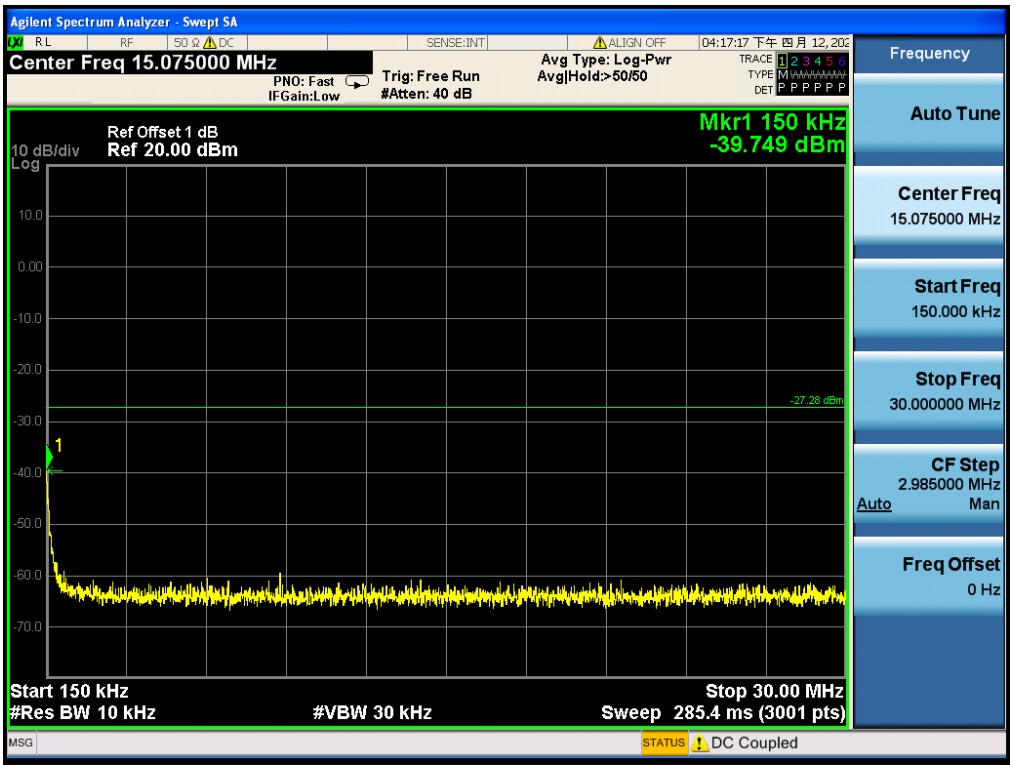

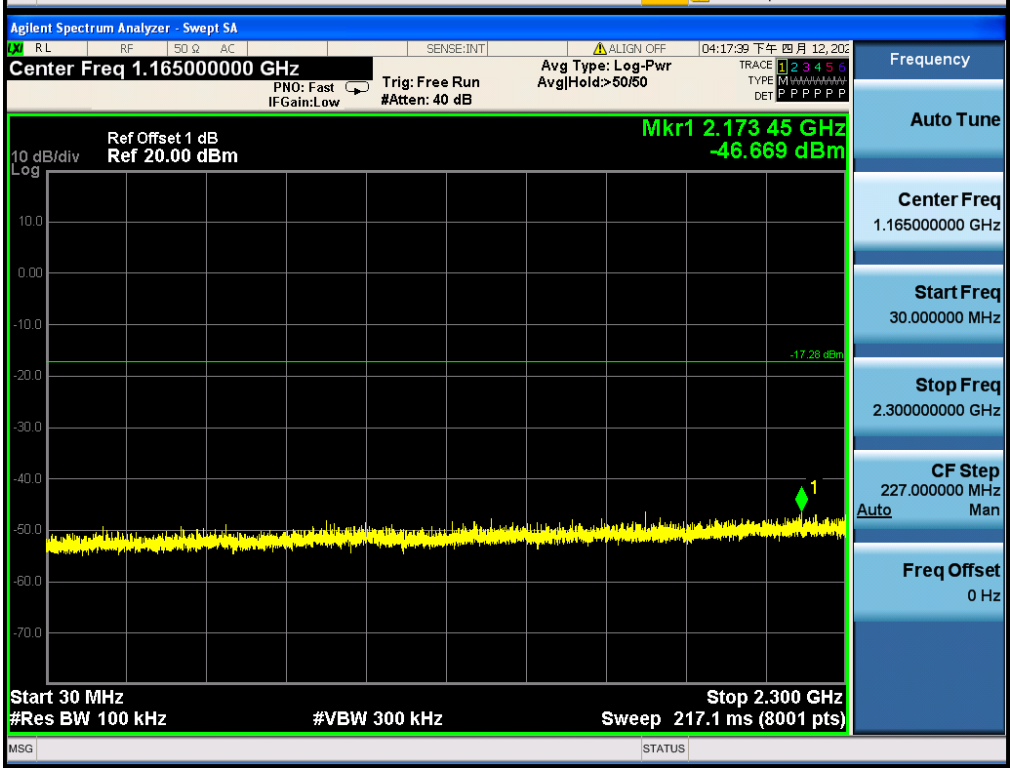

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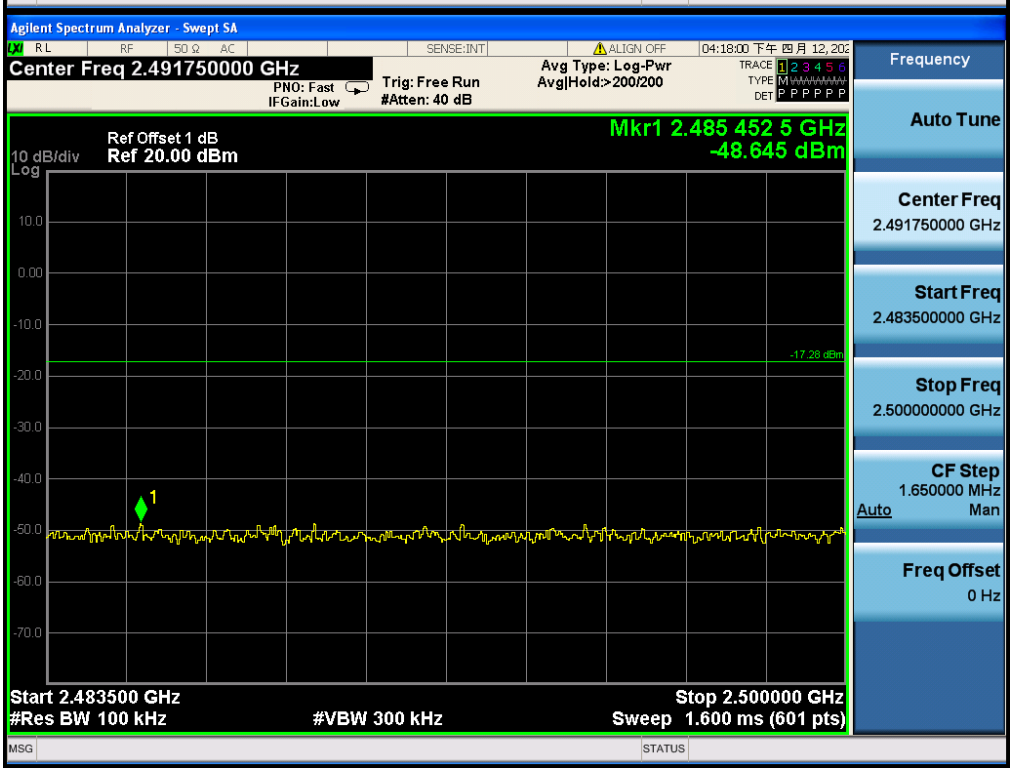

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4.8.1.1.8 802.11 N20_ Middle Channel

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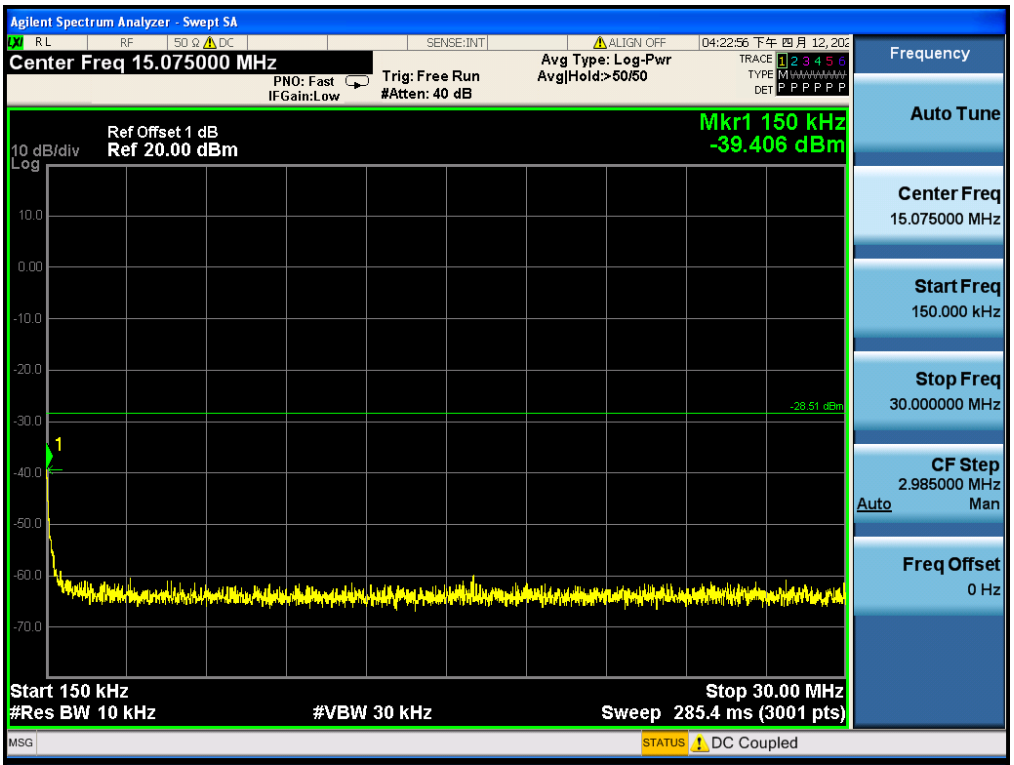

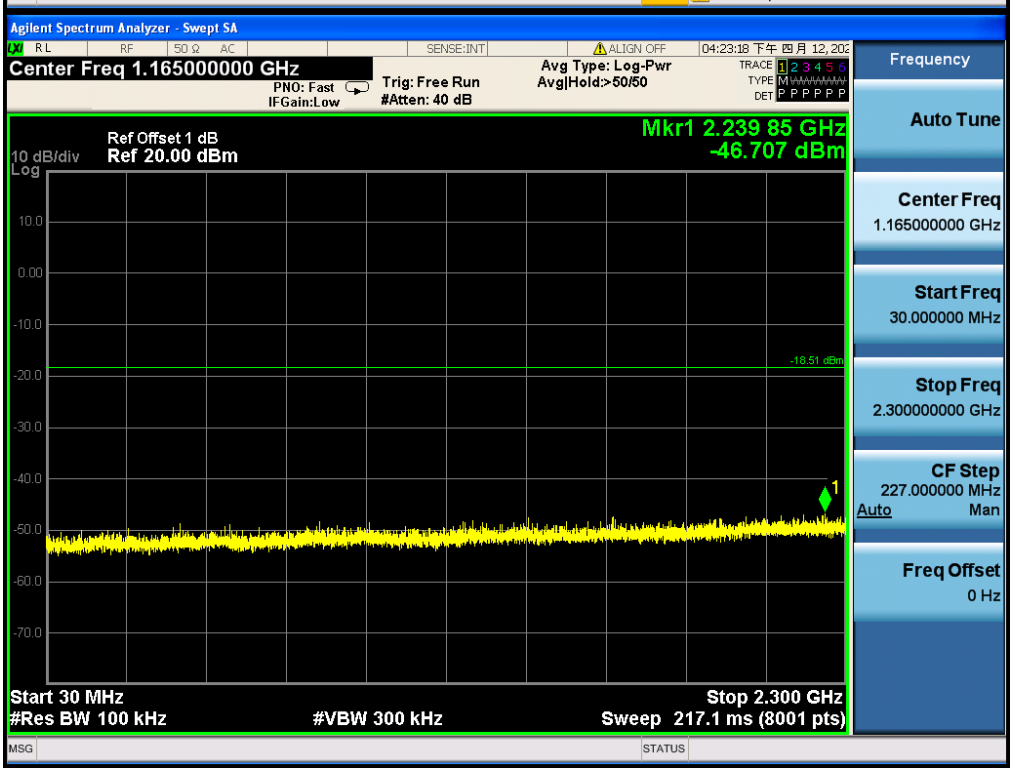

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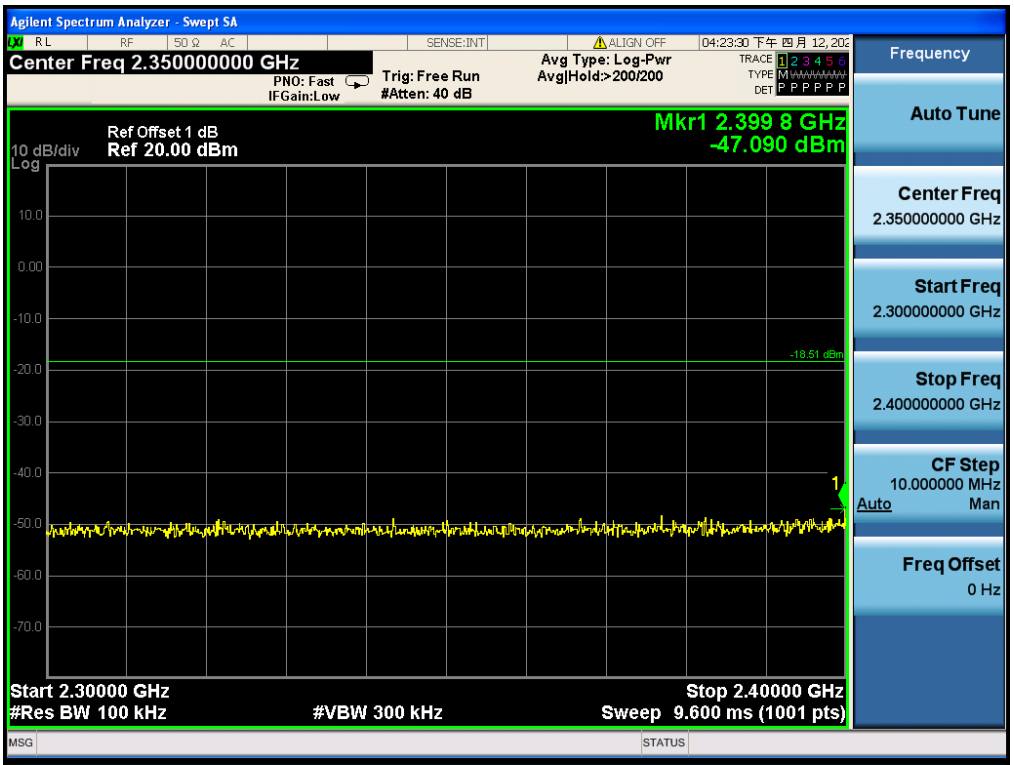

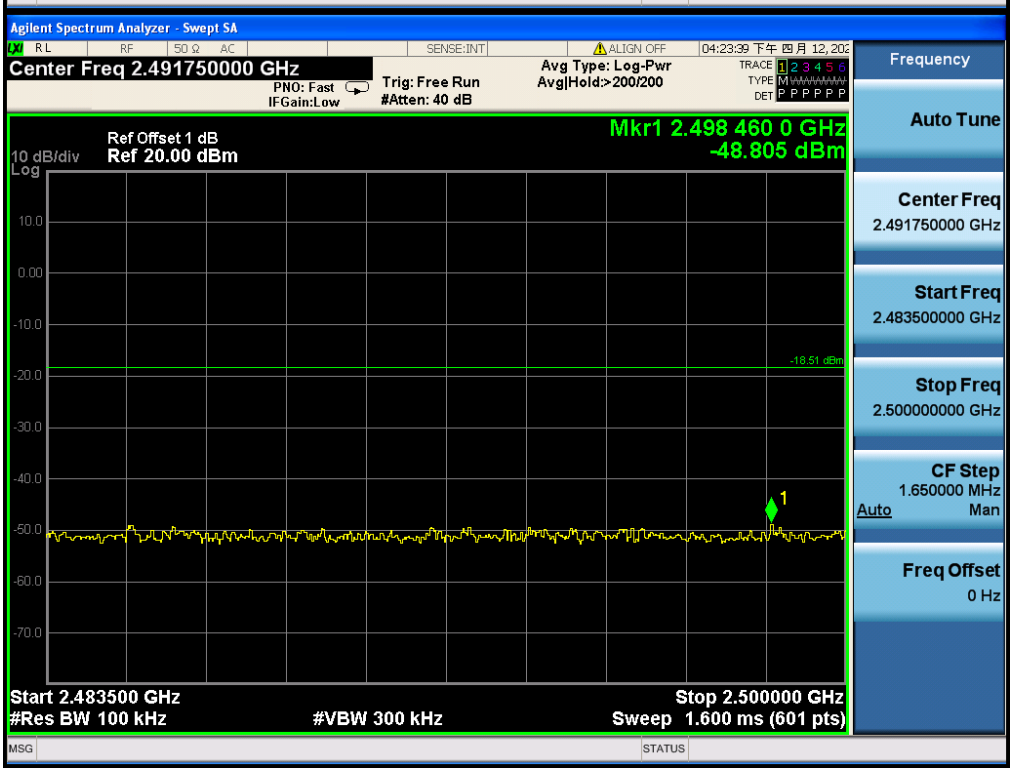

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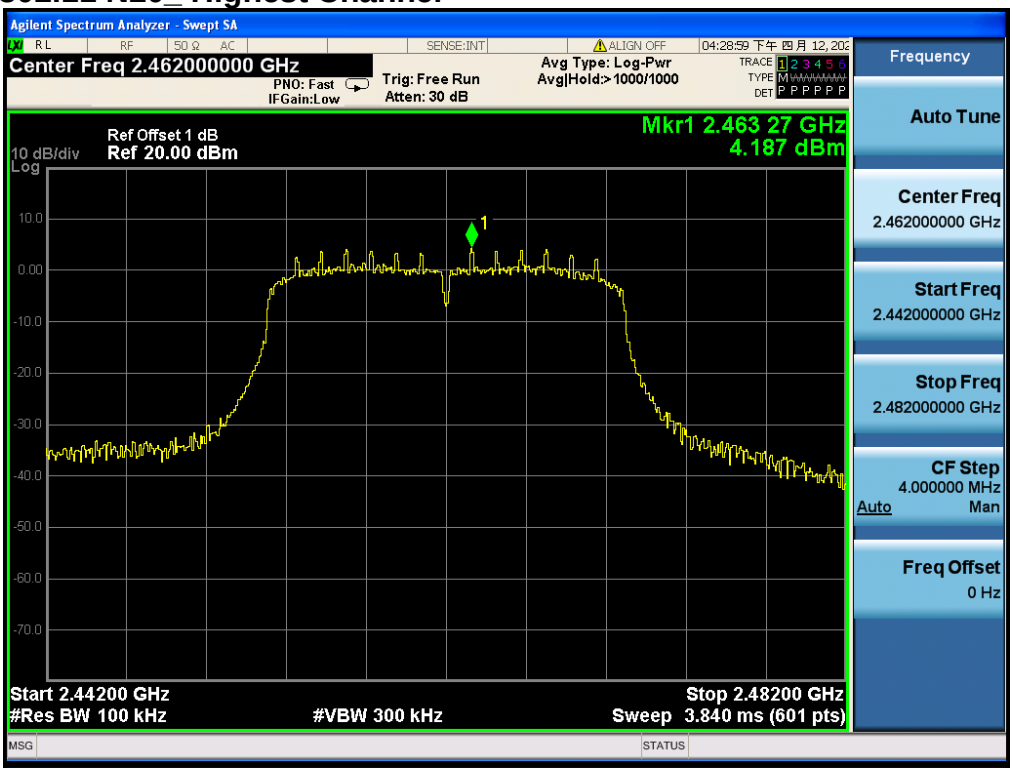
4.8.1.1.9 802.11 N20_ Highest Channel



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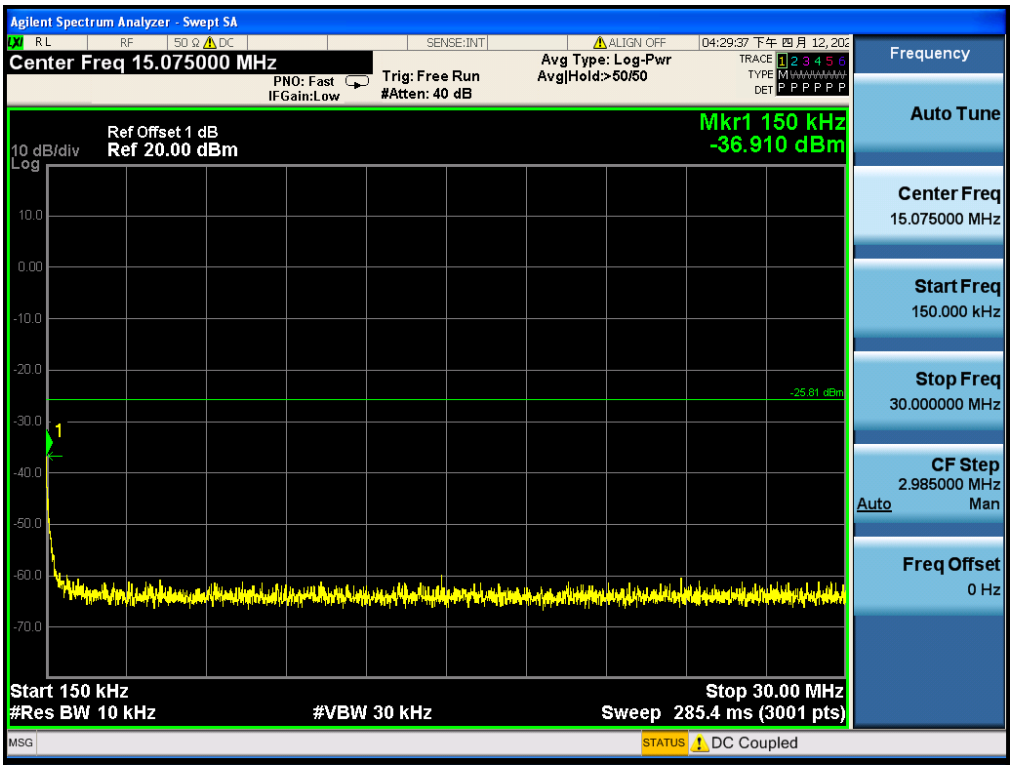

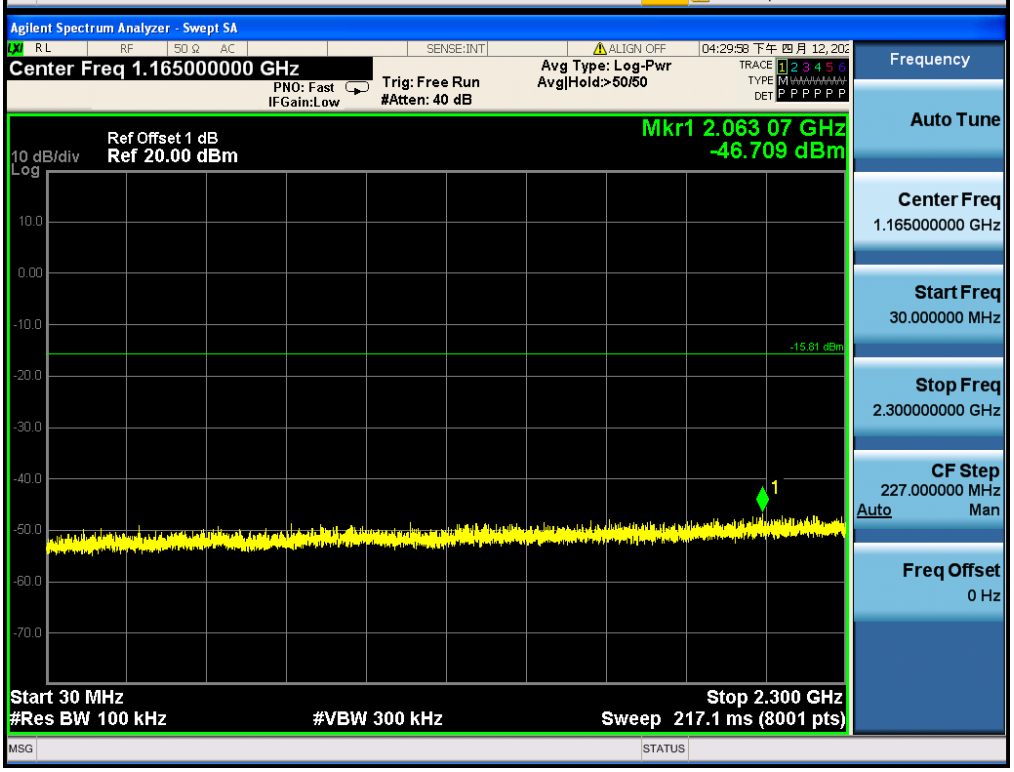

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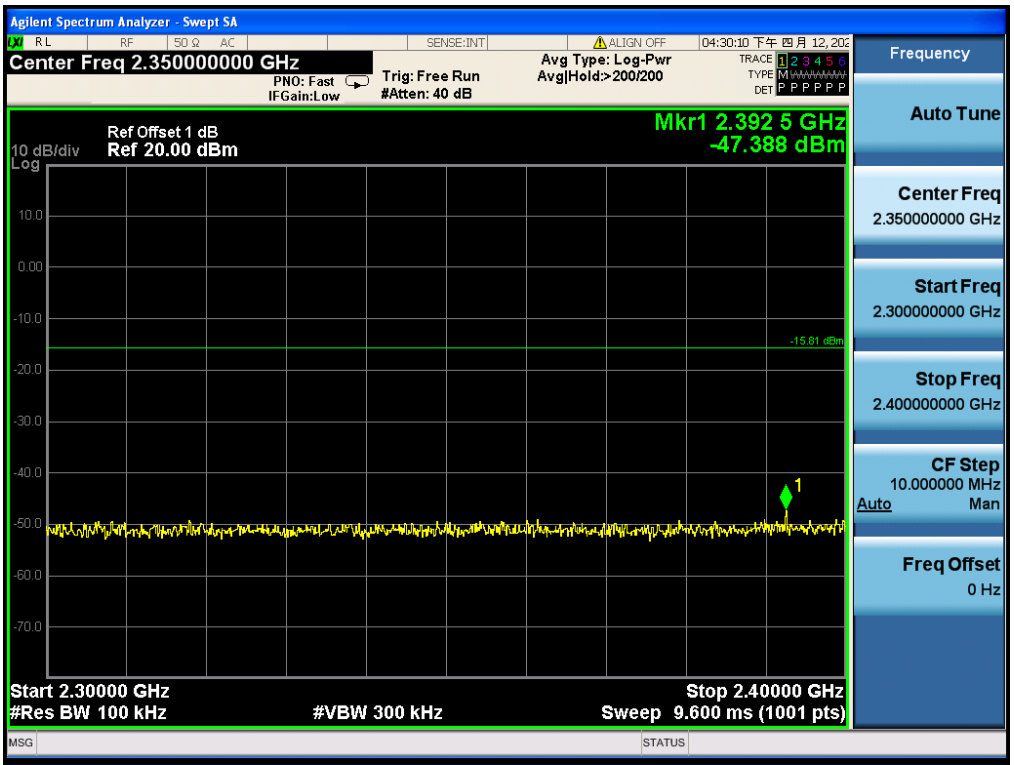

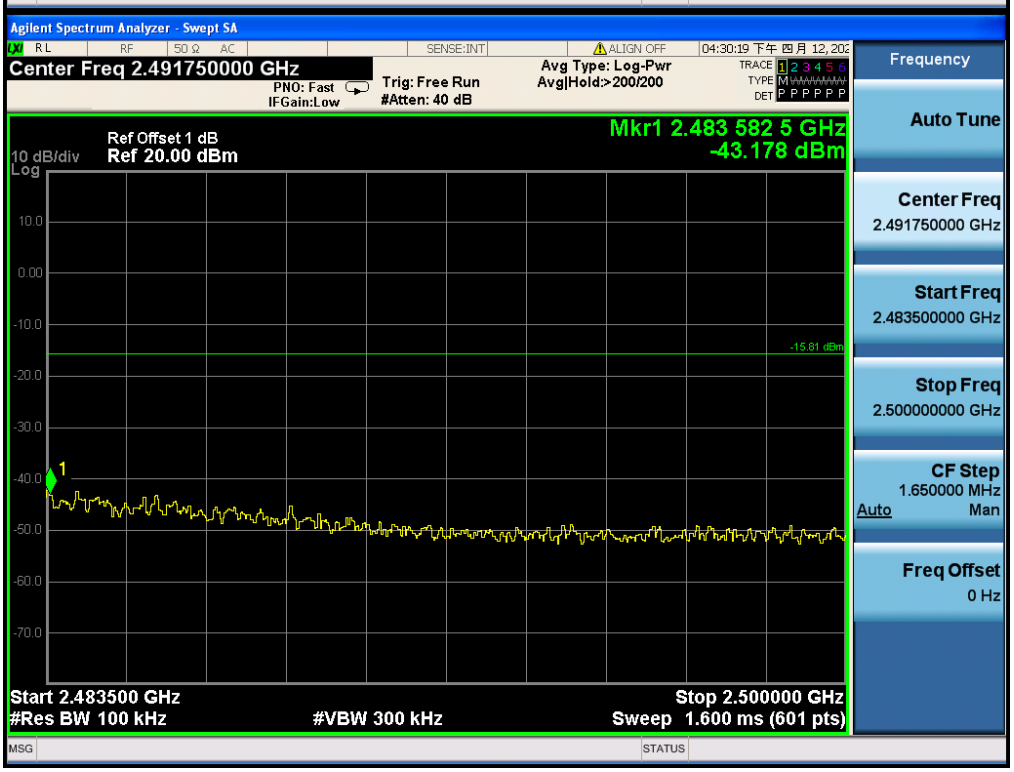

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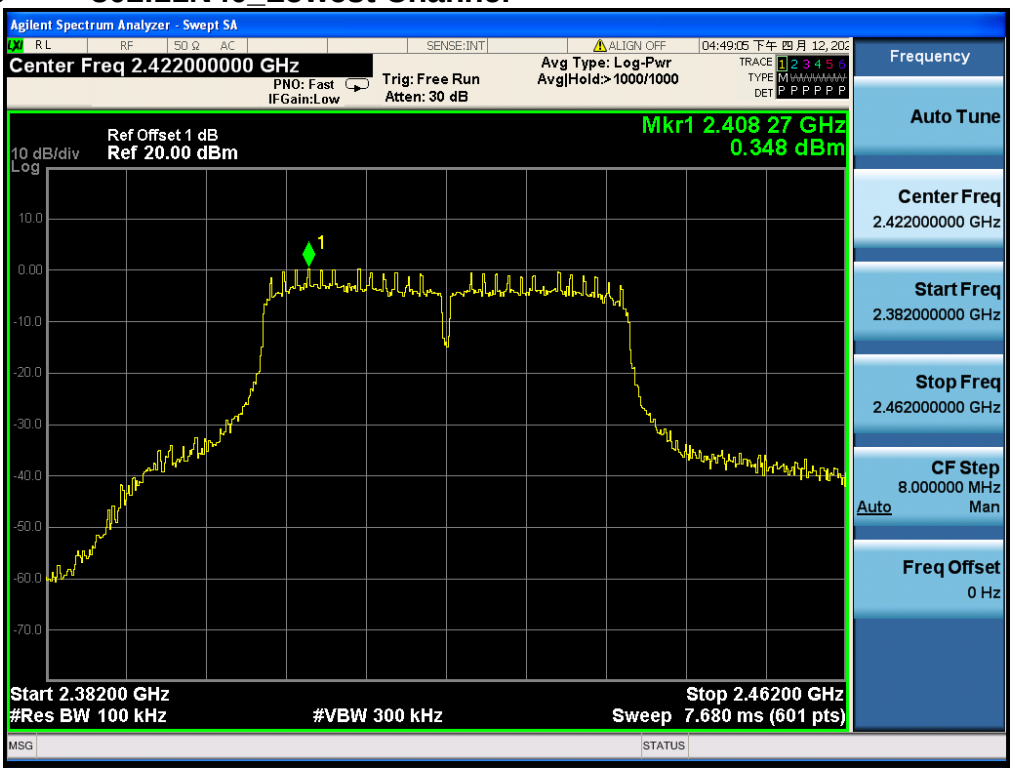
4.8.1.1.10 802.11N40_Lowest Channel



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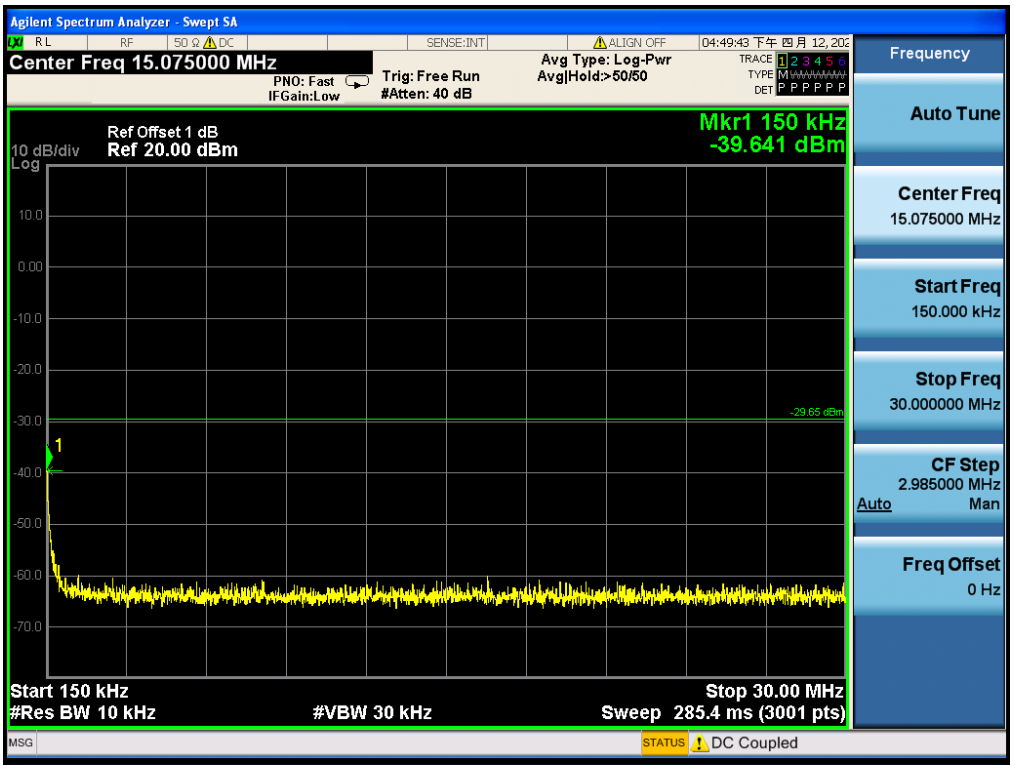

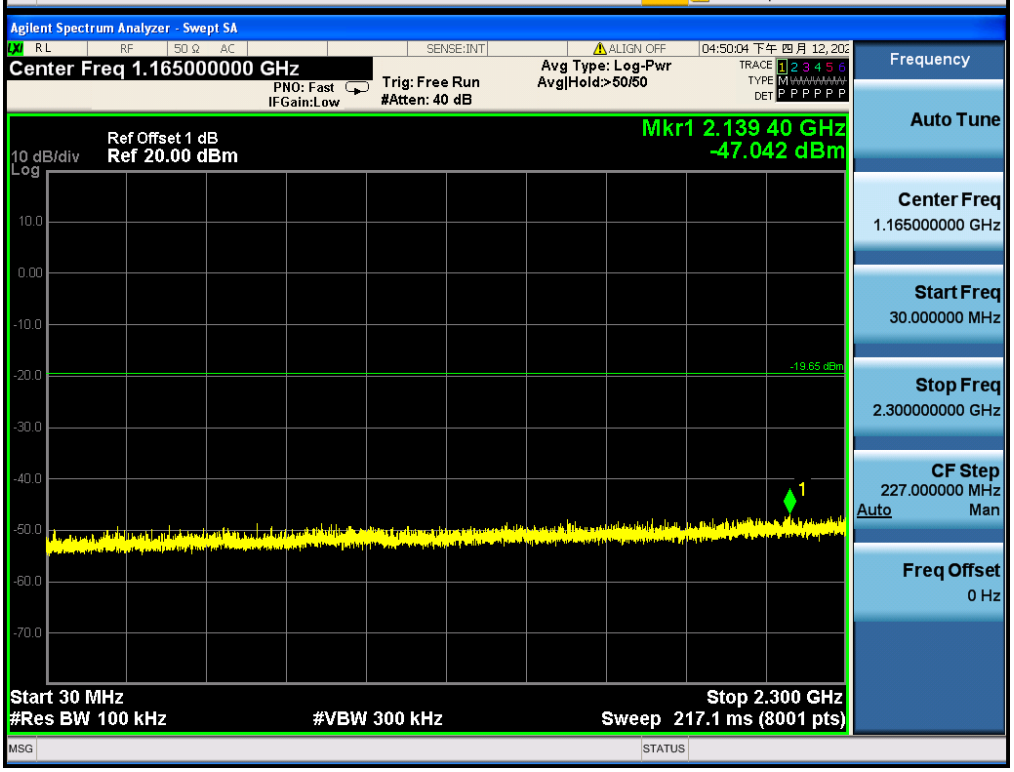

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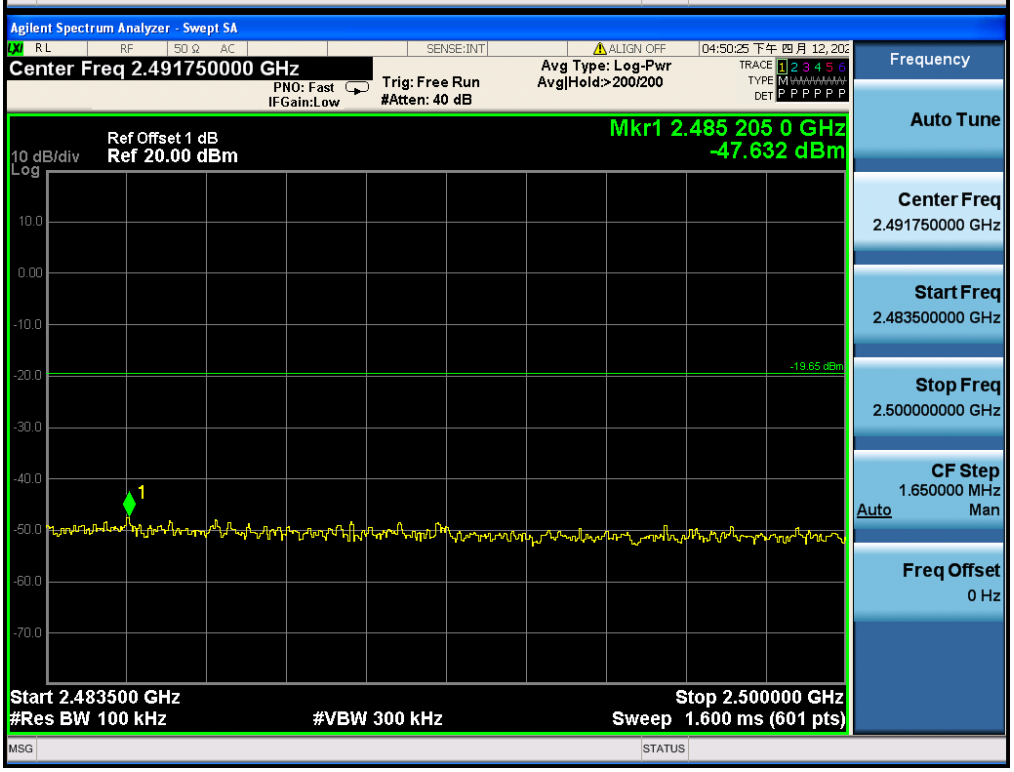

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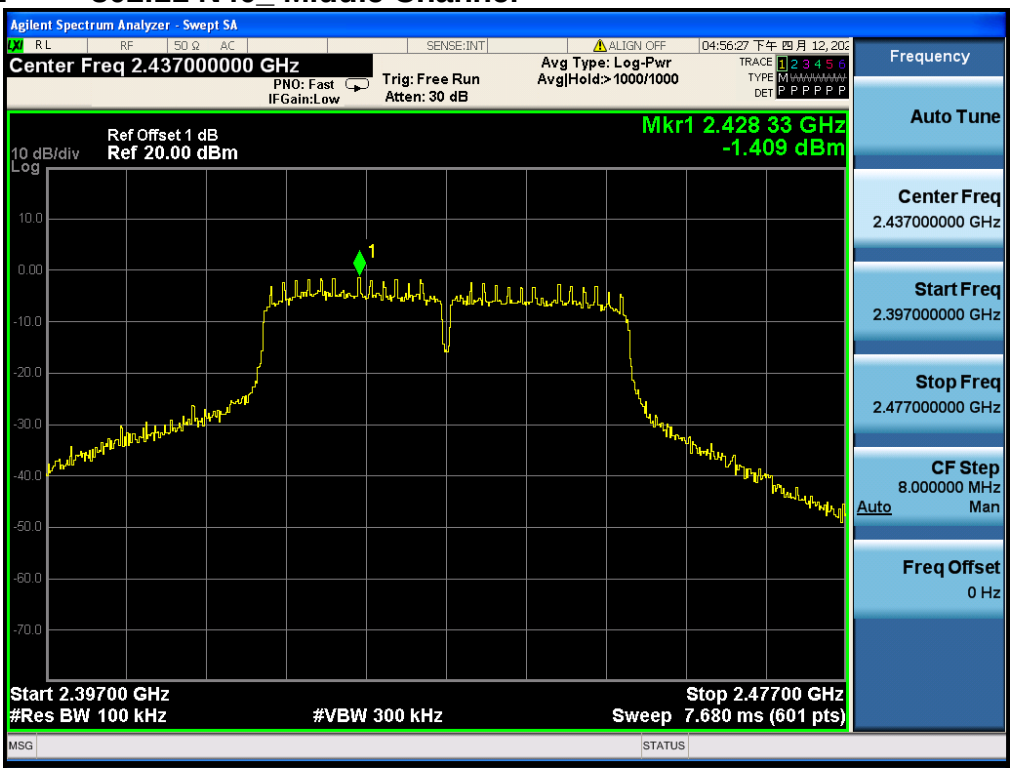
4.8.1.1.11 802.11 N40_ Middle Channel



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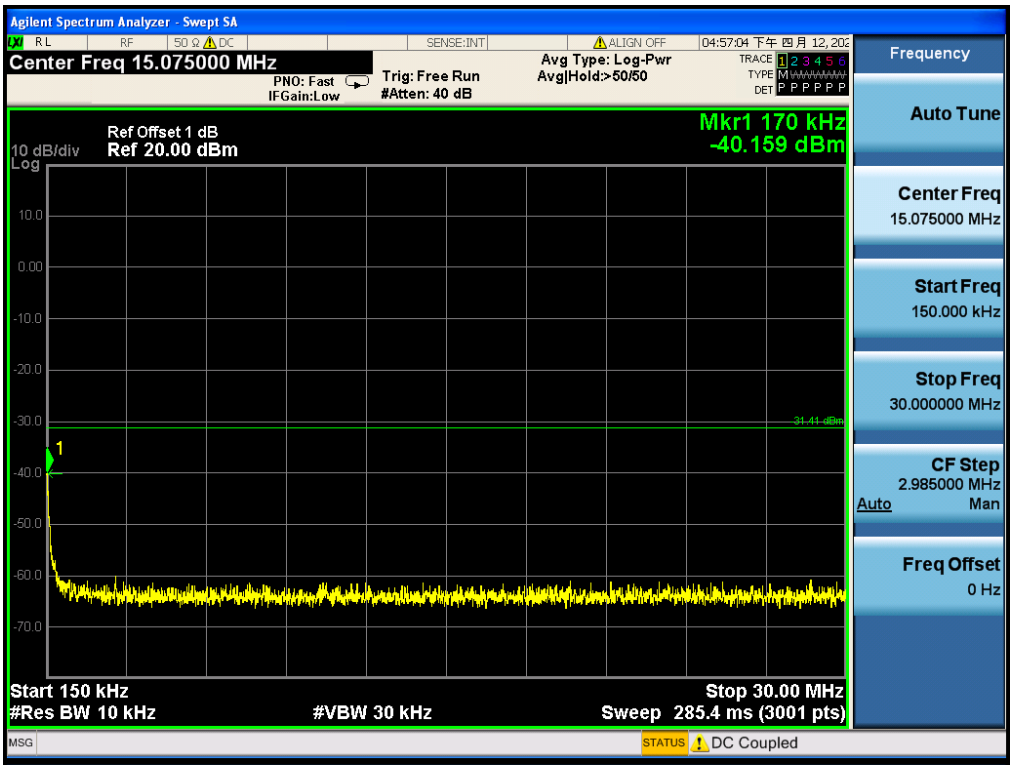

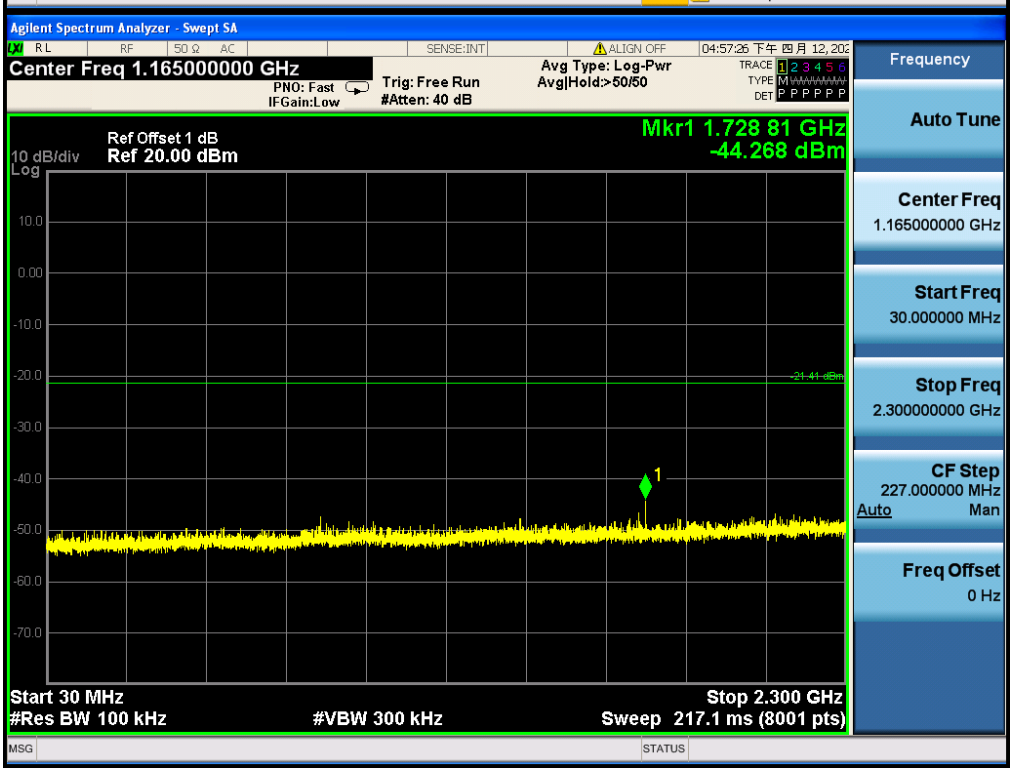

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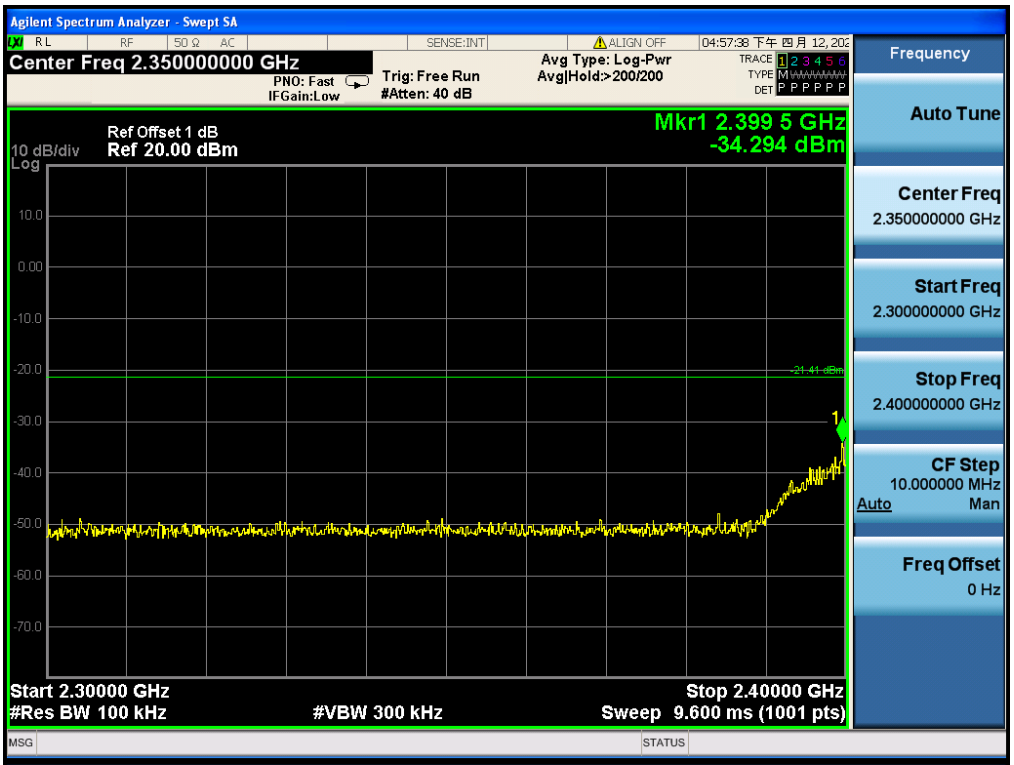

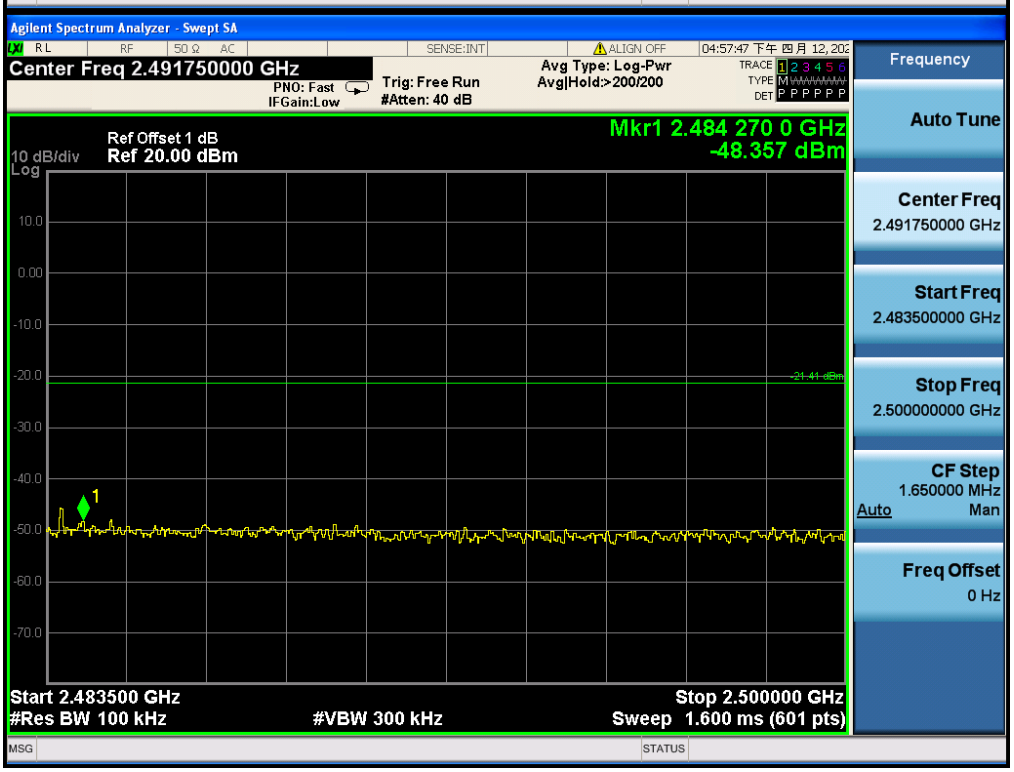

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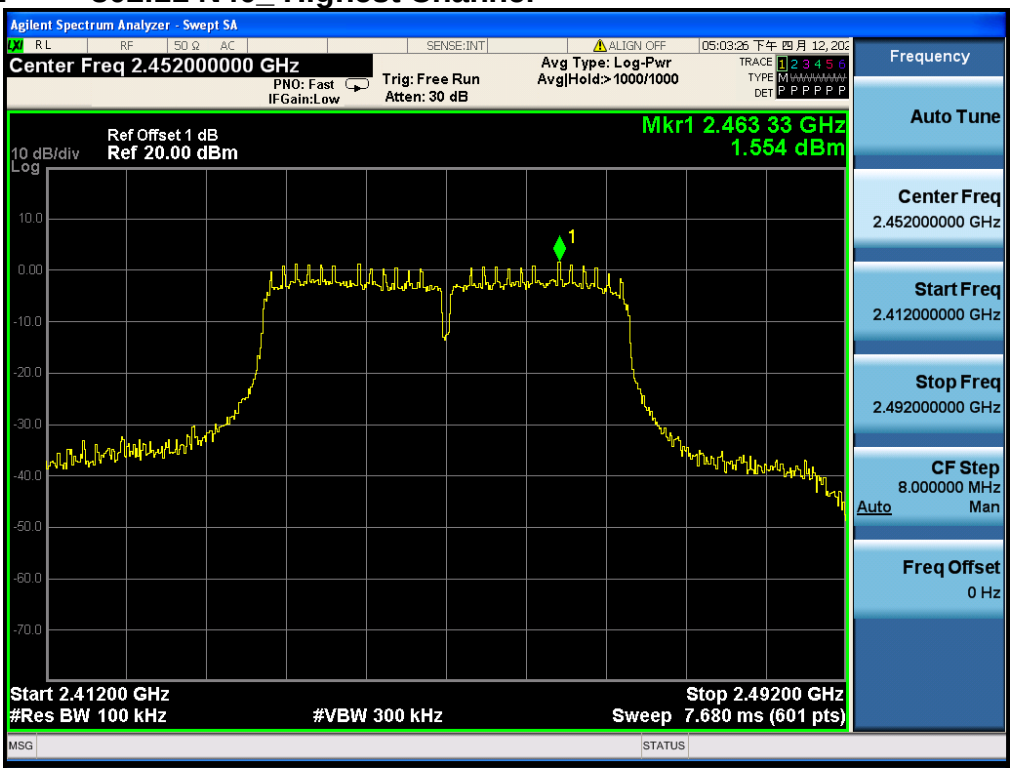
4.8.1.1.12 802.11 N40_ Highest Channel



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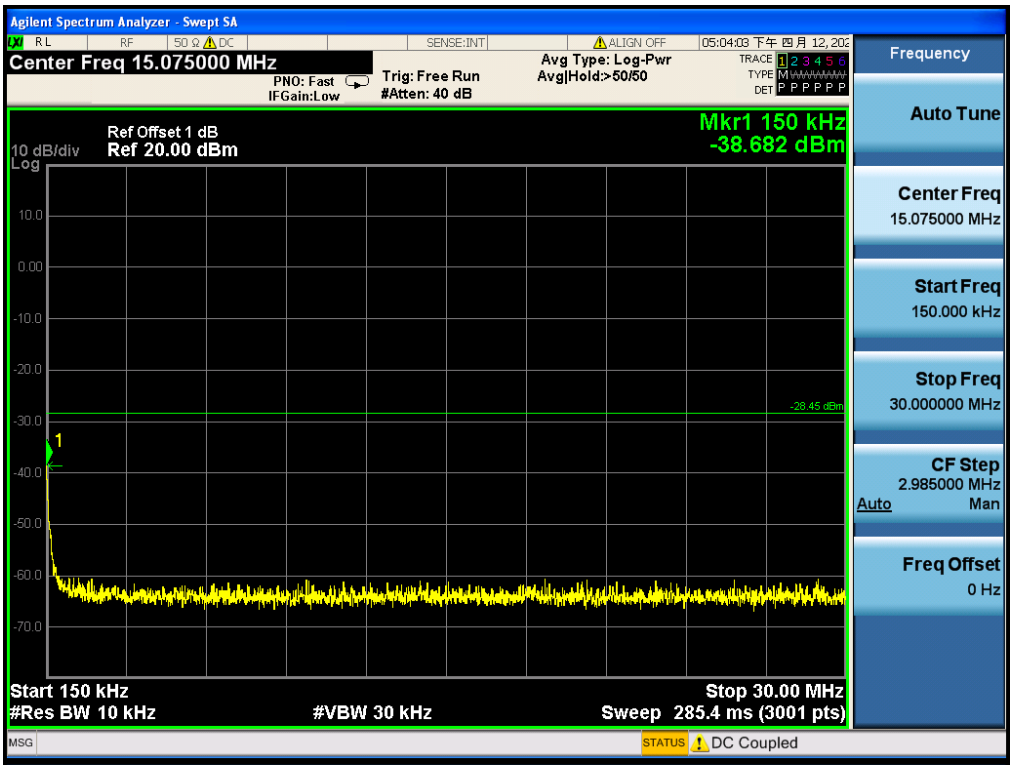

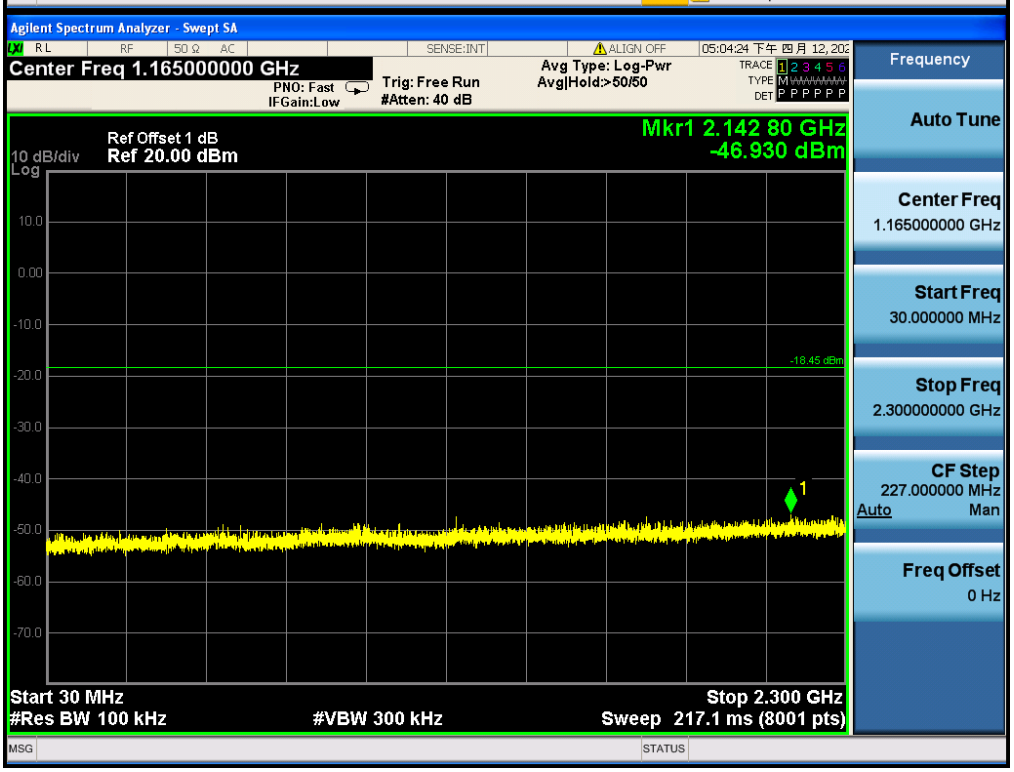

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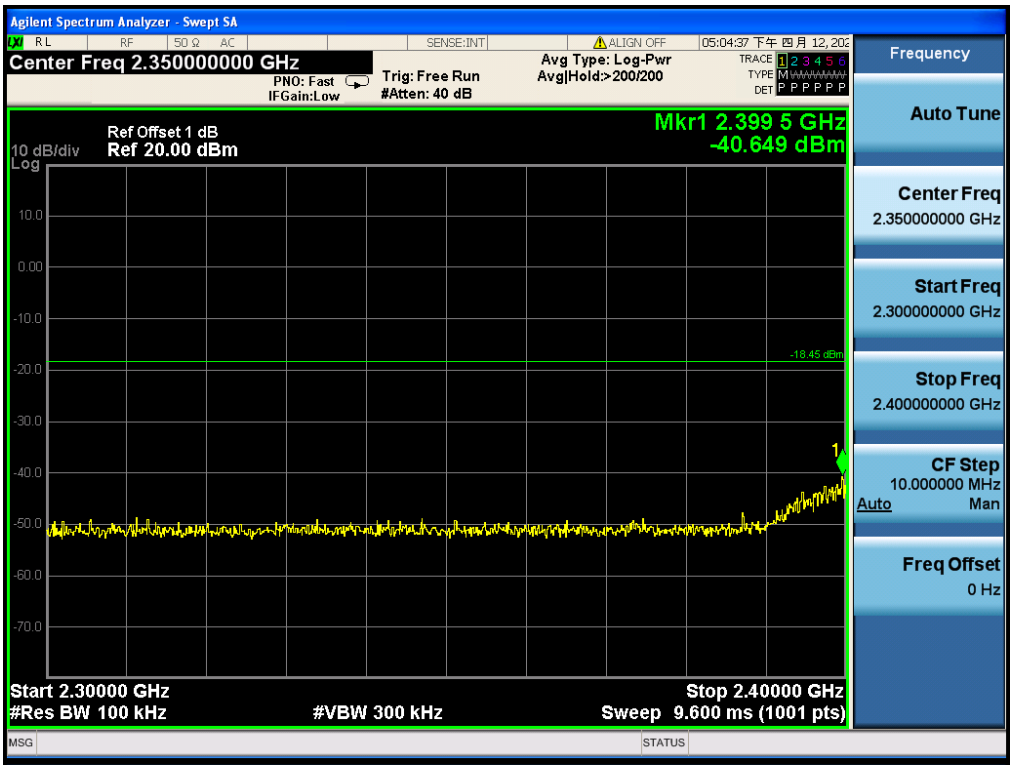

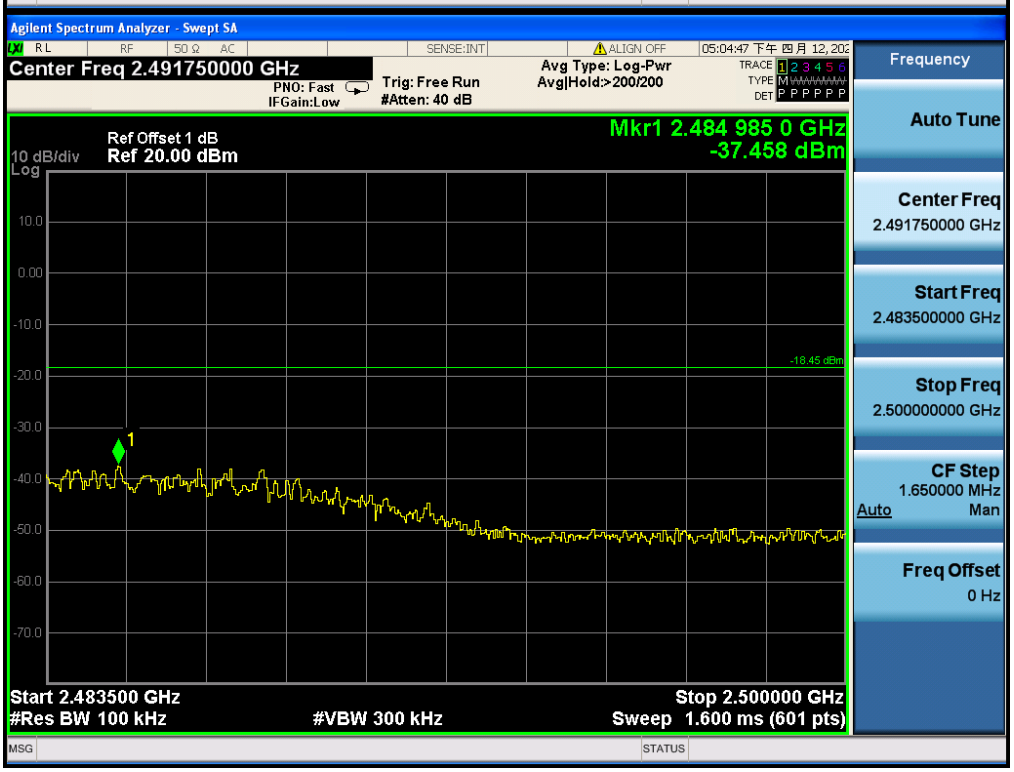

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4.9 Radiated Spurious Emissions

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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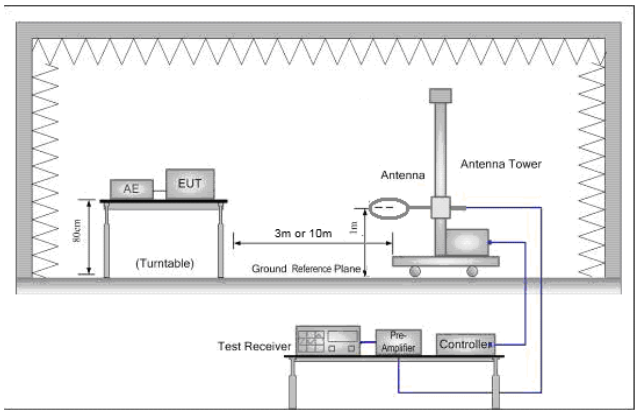

Figure 1. Below 30MHz

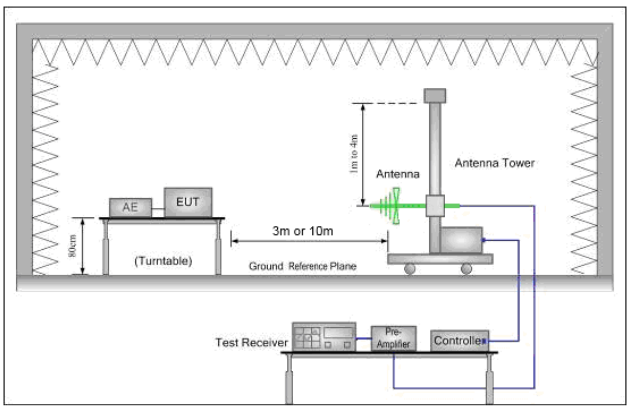

Figure 2. 30MHz to 1GHz

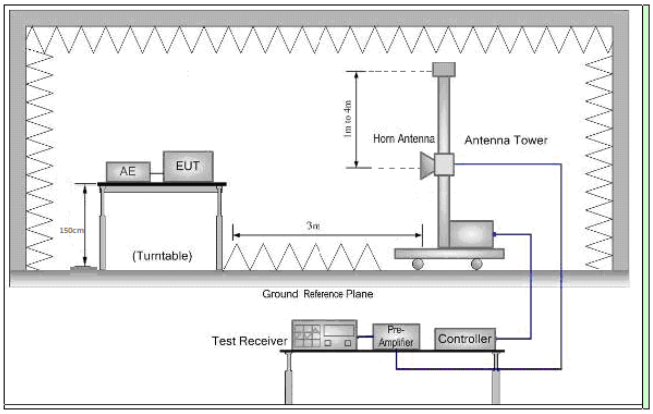

Figure 3. Above 1 GHz

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

4.9.1 Radiated emission below 1GHz

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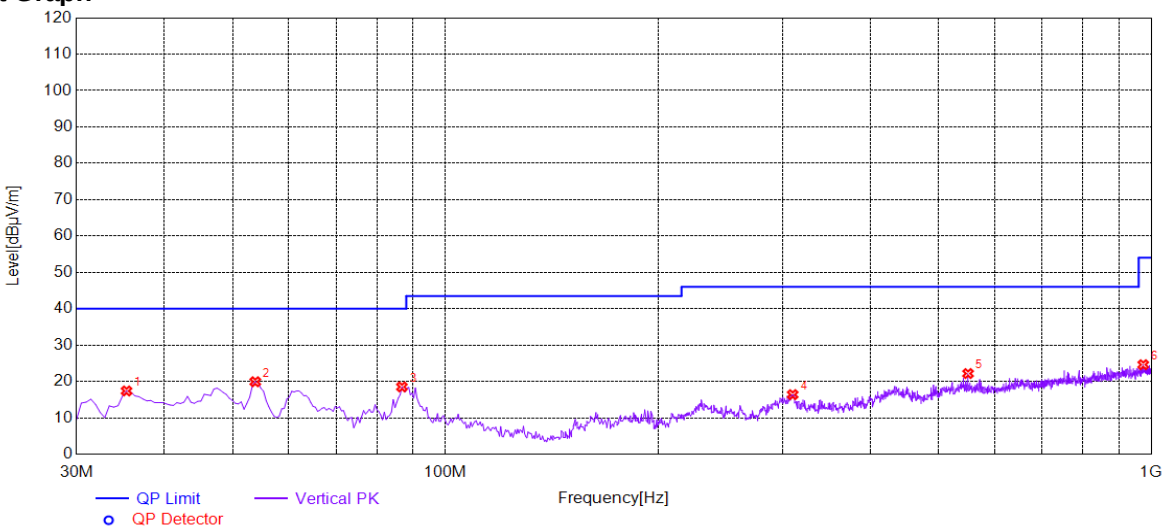
4.9.1.1 Charge + Transmitting, Vertical

Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.3377	17.39	-32.65	40.00	22.61	150	287	Vertical
2	53.7769	19.92	-30.75	40.00	20.08	150	326	Vertical
3	86.7734	18.51	-34.20	40.00	21.49	150	253	Vertical
4	310.470	16.38	-27.55	46.00	29.62	150	332	Vertical
5	550.180	22.18	-21.45	46.00	23.82	150	319	Vertical
6	974.282	24.61	-14.18	54.00	29.39	150	0	Vertical

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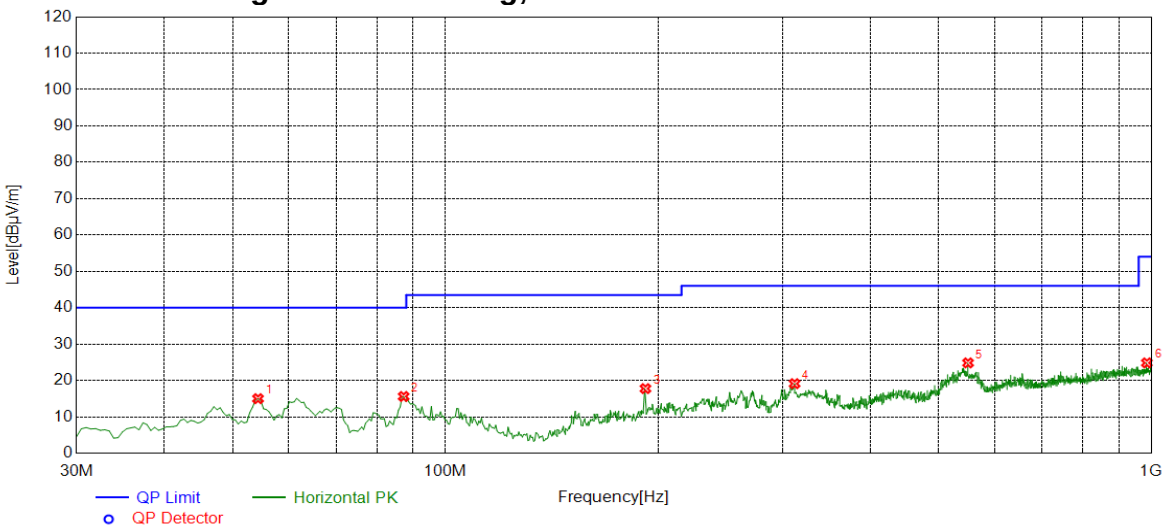
4.9.1.2 Charge + Transmitting, Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.2621	15.00	-30.82	40.00	25.00	150	282	Horizontal
2	87.2586	15.60	-34.09	40.00	24.40	150	69	Horizontal
3	192.071	17.76	-31.66	43.50	25.74	150	266	Horizontal
4	312.411	19.12	-27.49	46.00	26.88	150	218	Horizontal
5	550.180	24.83	-21.45	46.00	21.17	150	240	Horizontal
6	985.928	24.84	-14.04	54.00	29.16	150	306	Horizontal

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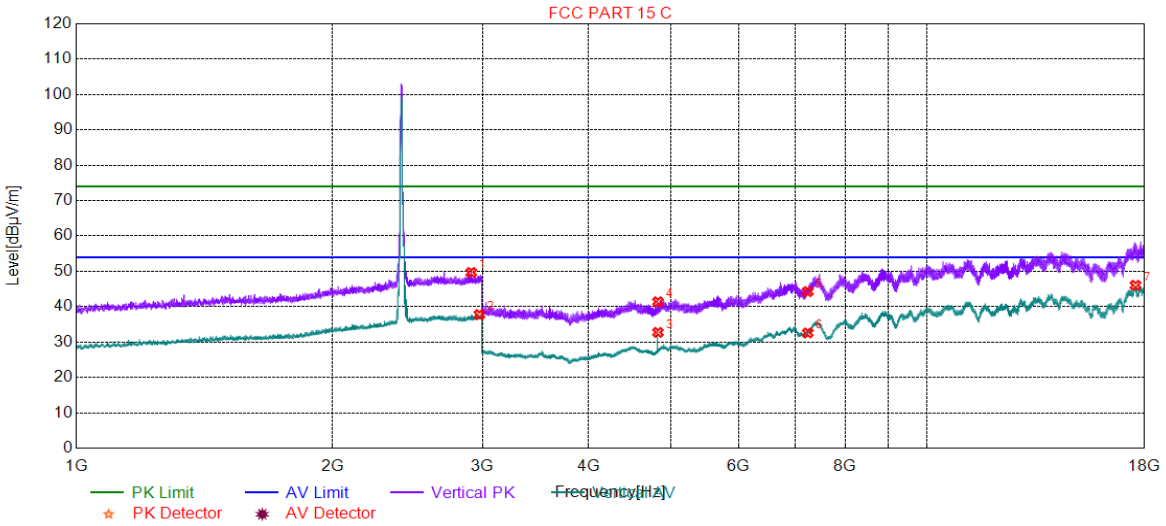
4.9.2 Transmitter emission above 1GHz

4.9.2.1 ANT1

4.9.2.1.1 802.11B_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2910.47	49.69	2.27	74.00	24.31	150	269	Vertical
2	2975.49	37.78	2.31	54.00	16.22	150	41	Vertical
3	4824.00	32.74	-20.09	54.00	21.26	150	34	Vertical
4	4824.00	41.41	-20.09	74.00	32.59	150	34	Vertical
5	7236.00	44.28	-12.40	74.00	29.72	150	115	Vertical
6	7236.00	32.60	-12.40	54.00	21.40	150	326	Vertical
7	17560.9	46.07	1.13	54.00	7.93	150	190	Vertical

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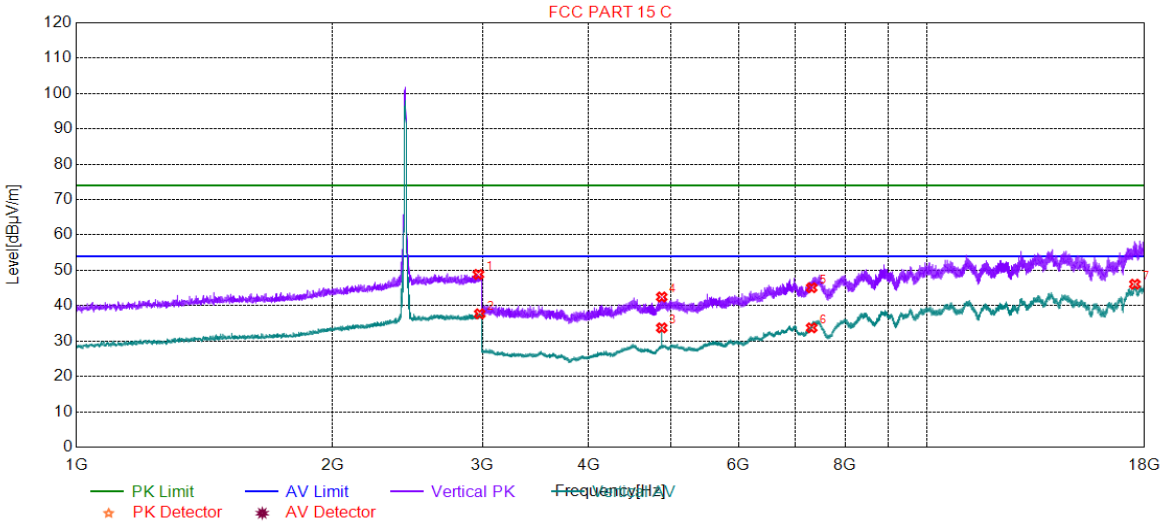
4.9.2.1.2 802.11B_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2967.49	48.86	2.31	74.00	25.14	150	333	Vertical
2	2978.49	37.71	2.31	54.00	16.29	150	317	Vertical
3	4874.00	33.74	-19.37	54.00	20.26	150	50	Vertical
4	4874.00	42.47	-19.37	74.00	31.53	150	3	Vertical
5	7311.00	45.09	-11.50	74.00	28.91	150	342	Vertical
6	7311.00	33.74	-11.50	54.00	20.26	150	310	Vertical
7	17530.4	46.10	0.74	54.00	7.90	150	162	Vertical

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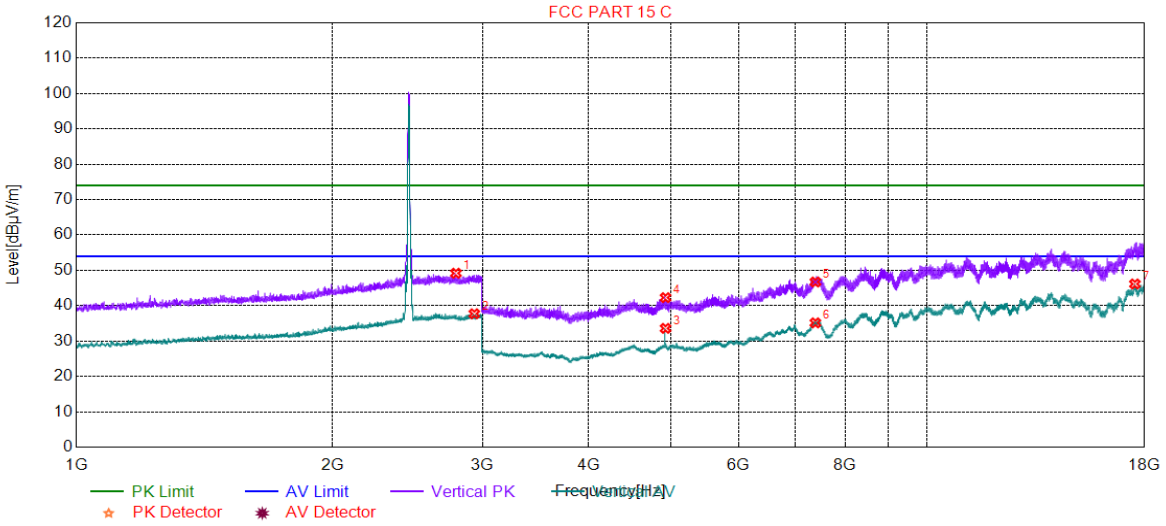
4.9.2.1.3 802.11B_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2792.94	49.19	2.13	74.00	24.81	150	17	Vertical
2	2934.98	37.73	2.28	54.00	16.27	150	359	Vertical
3	4924.00	33.60	-18.87	54.00	20.40	150	32	Vertical
4	4924.00	42.28	-18.87	74.00	31.72	150	2	Vertical
5	7386.00	46.71	-10.72	74.00	27.29	150	310	Vertical
6	7386.00	35.15	-10.72	54.00	18.85	150	196	Vertical
7	17533.4	46.15	0.78	54.00	7.85	150	360	Vertical

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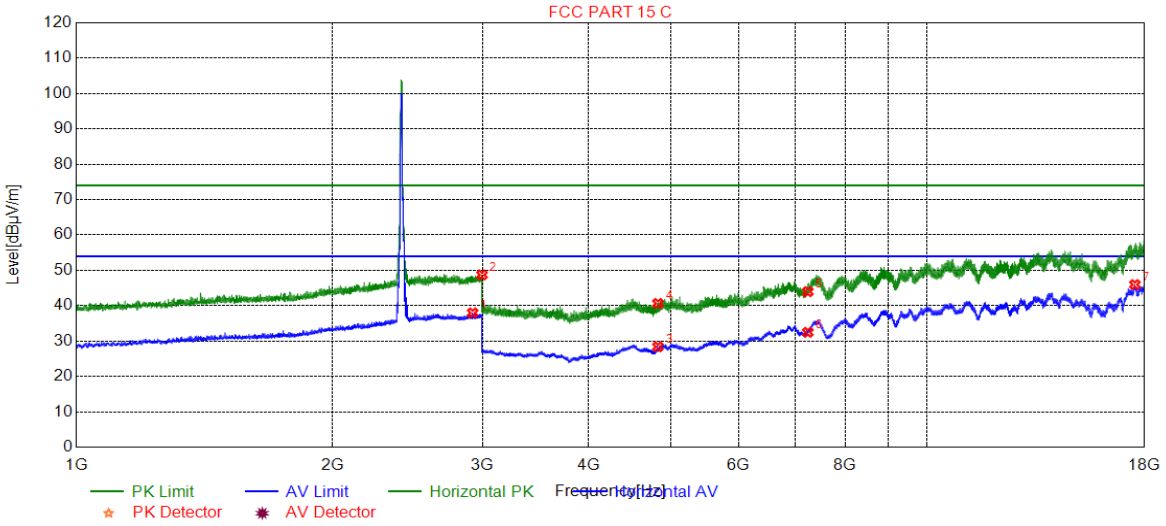
4.9.2.1.4 802.11B_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2921.98	37.98	2.28	54.00	16.02	150	343	Horizontal
2	2996.99	48.71	2.33	74.00	25.29	150	272	Horizontal
3	4824.00	28.40	-20.09	54.00	25.60	150	35	Horizontal
4	4824.00	40.65	-20.09	74.00	33.35	150	35	Horizontal
5	7236.00	43.97	-12.40	74.00	30.03	150	67	Horizontal
6	7236.00	32.49	-12.40	54.00	21.51	150	99	Horizontal
7	17533.4	45.97	0.78	54.00	8.03	150	18	Horizontal

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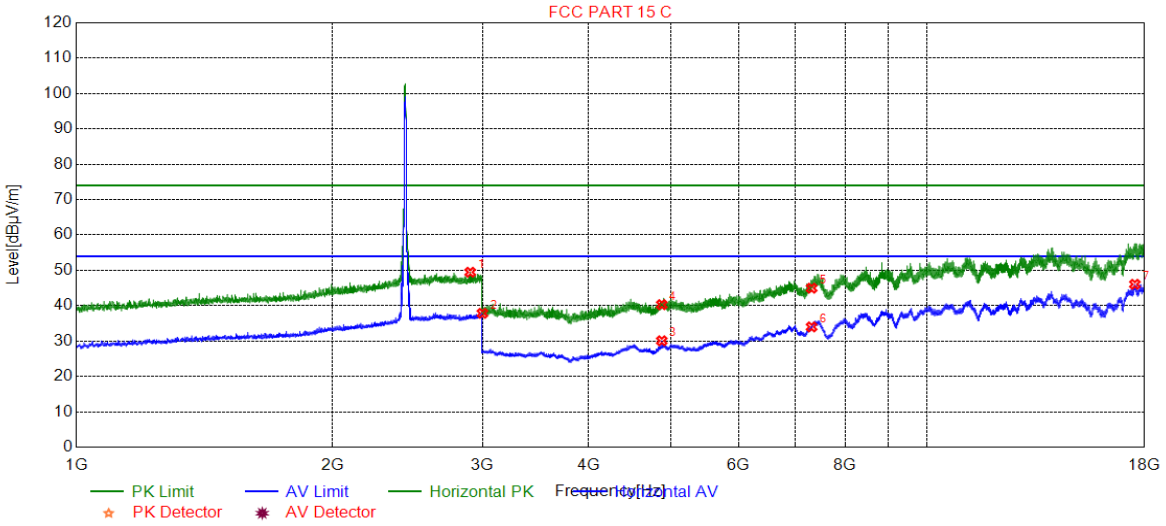
4.9.2.1.5 802.11B_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2902.97	49.47	2.26	74.00	24.53	150	146	Horizontal
2	3000.00	37.85	2.33	54.00	16.15	150	177	Horizontal
3	4874.00	30.08	-19.37	54.00	23.92	150	48	Horizontal
4	4874.00	40.30	-19.37	74.00	33.70	150	113	Horizontal
5	7311.00	44.96	-11.50	74.00	29.04	150	244	Horizontal
6	7311.00	34.01	-11.50	54.00	19.99	150	293	Horizontal
7	17530.4	46.06	0.74	54.00	7.94	150	359	Horizontal

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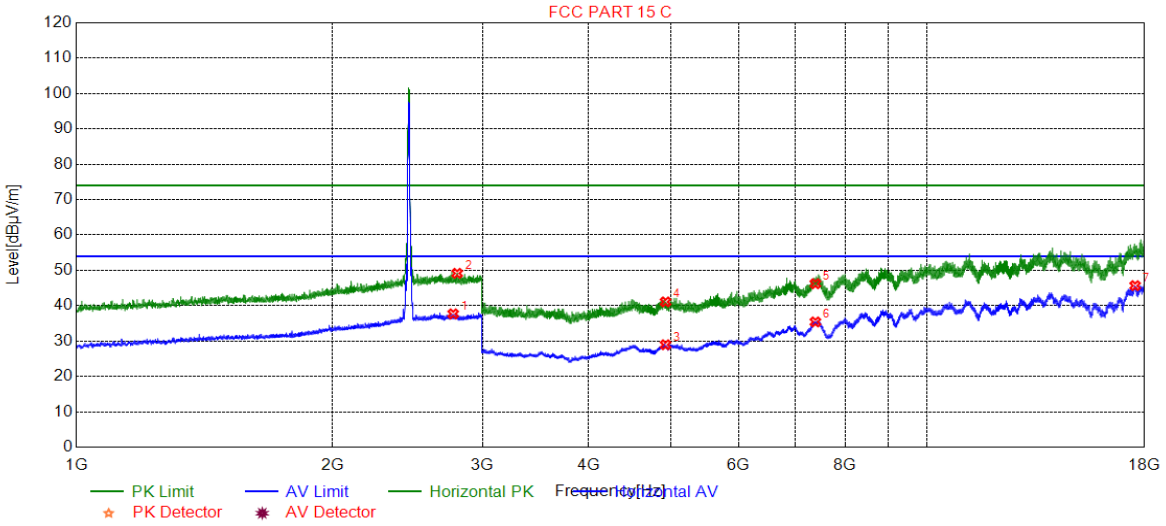
4.9.2.1.6 802.11B_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2771.94	37.69	2.09	54.00	16.31	150	202	Horizontal
2	2801.95	49.16	2.14	74.00	24.84	150	76	Horizontal
3	4924.00	28.96	-18.87	54.00	25.04	150	33	Horizontal
4	4924.00	41.08	-18.87	74.00	32.92	150	33	Horizontal
5	7386.00	46.22	-10.72	74.00	27.78	150	243	Horizontal
6	7386.00	35.42	-10.72	54.00	18.58	150	82	Horizontal
7	17543.4	45.67	0.91	54.00	8.33	150	104	Horizontal

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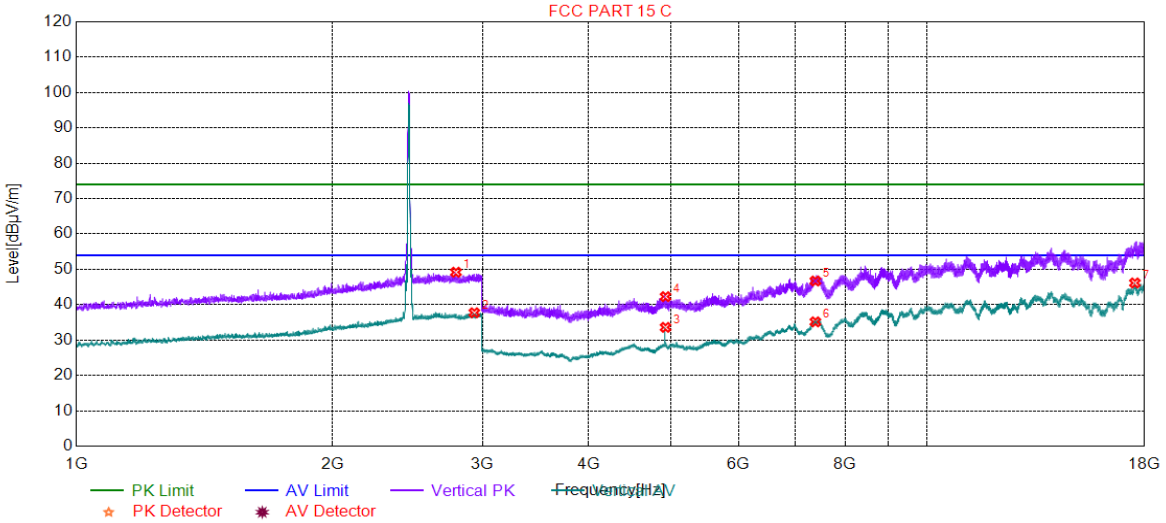
4.9.2.1.7 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2792.94	49.19	2.13	74.00	24.81	150	17	Vertical
2	2934.98	37.73	2.28	54.00	16.27	150	359	Vertical
3	4924.00	33.60	-18.87	54.00	20.40	150	32	Vertical
4	4924.00	42.28	-18.87	74.00	31.72	150	2	Vertical
5	7386.00	46.71	-10.72	74.00	27.29	150	310	Vertical
6	7386.00	35.15	-10.72	54.00	18.85	150	196	Vertical
7	17533.4	46.15	0.78	54.00	7.85	150	360	Vertical

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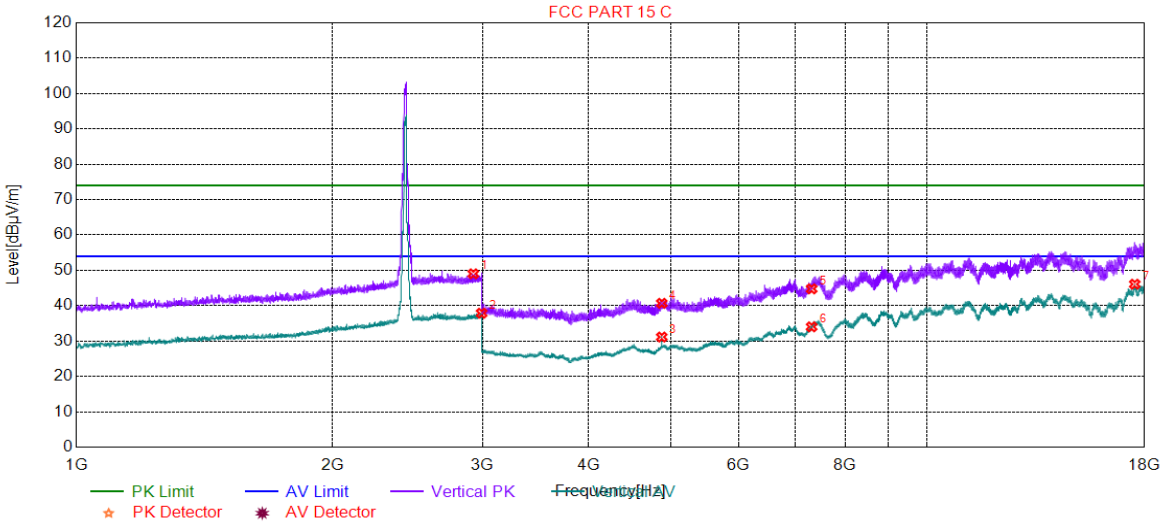
4.9.2.1.8 802.11G_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2926.98	49.02	2.28	74.00	24.98	150	41	Vertical
2	2993.99	37.88	2.33	54.00	16.12	150	41	Vertical
3	4874.00	31.15	-19.37	54.00	22.85	150	33	Vertical
4	4874.00	40.69	-19.37	74.00	33.31	150	33	Vertical
5	7311.00	44.77	-11.50	74.00	29.23	150	342	Vertical
6	7311.00	34.04	-11.50	54.00	19.96	150	342	Vertical
7	17525.4	46.09	0.68	54.00	7.91	150	190	Vertical

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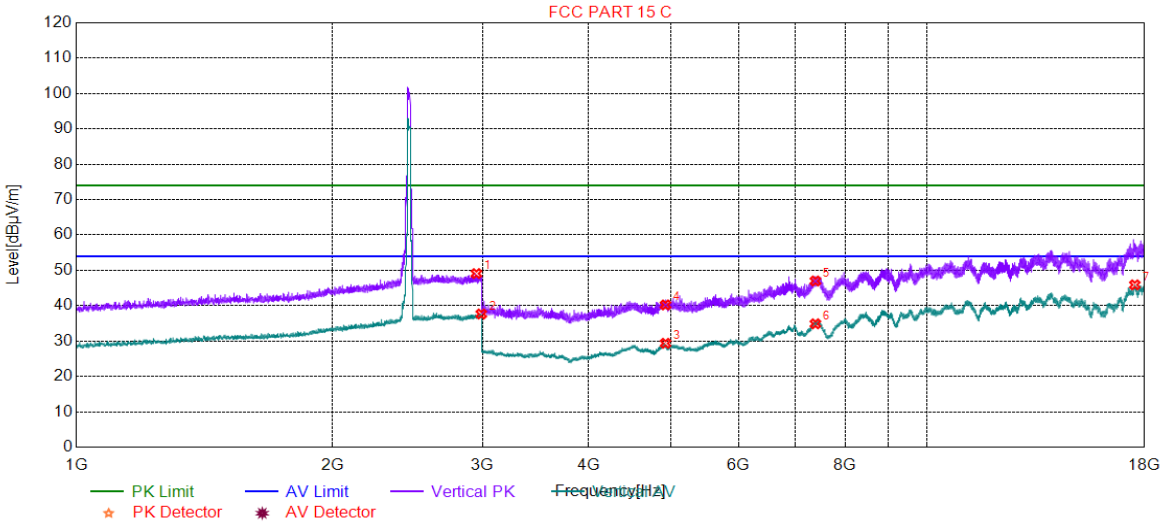
4.9.2.1.9 802.11G_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2951.48	49.09	2.30	74.00	24.91	150	347	Vertical
2	2990.99	37.66	2.32	54.00	16.34	150	136	Vertical
3	4924.00	29.37	-18.87	54.00	24.63	150	5	Vertical
4	4924.00	40.23	-18.87	74.00	33.77	150	5	Vertical
5	7386.00	46.99	-10.72	74.00	27.01	150	165	Vertical
6	7386.00	34.89	-10.72	54.00	19.11	150	149	Vertical
7	17528.9	45.90	0.72	54.00	8.10	150	161	Vertical

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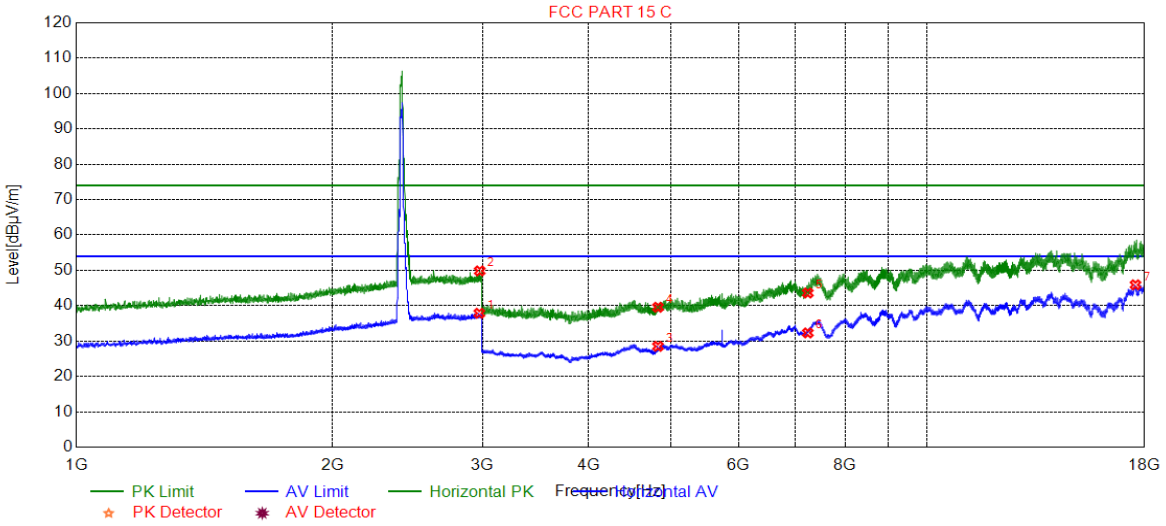
4.9.2.1.10 802.11G_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2974.99	37.86	2.31	54.00	16.14	150	326	Horizontal
2	2978.49	49.84	2.31	74.00	24.16	150	201	Horizontal
3	4824.00	28.51	-20.09	54.00	25.49	150	33	Horizontal
4	4824.00	39.56	-20.09	74.00	34.44	150	65	Horizontal
5	7236.00	43.60	-12.40	74.00	30.40	150	130	Horizontal
6	7236.00	32.31	-12.40	54.00	21.69	150	196	Horizontal
7	17561.4	45.91	1.14	54.00	8.09	150	104	Horizontal

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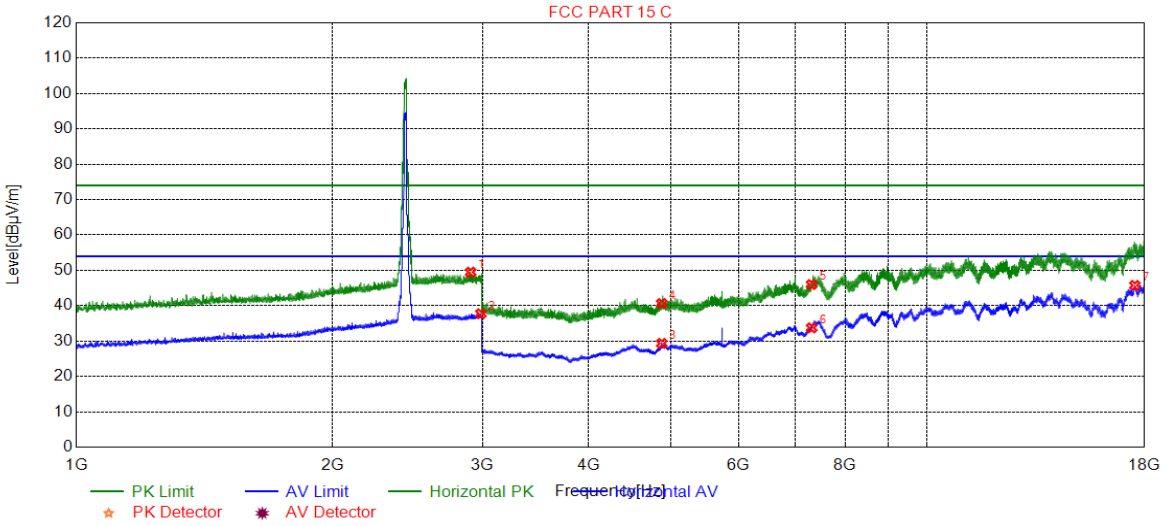
4.9.2.1.11 802.11G_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2905.97	49.49	2.26	74.00	24.51	150	20	Horizontal
2	2987.99	37.75	2.32	54.00	16.25	150	122	Horizontal
3	4874.00	29.35	-19.37	54.00	24.65	150	26	Horizontal
4	4874.00	40.63	-19.37	74.00	33.37	150	108	Horizontal
5	7311.00	46.00	-11.50	74.00	28.00	150	212	Horizontal
6	7311.00	33.75	-11.50	54.00	20.25	150	92	Horizontal
7	17533.4	45.75	0.78	54.00	8.25	150	333	Horizontal

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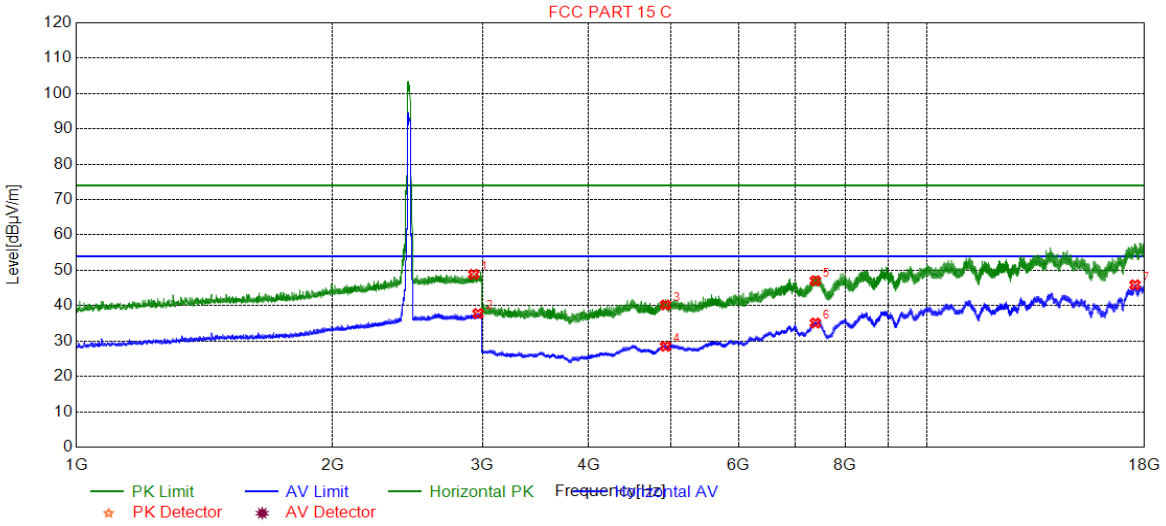
4.9.2.1.12 802.11G_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2930.48	48.89	2.28	74.00	25.11	150	131	Horizontal
2	2964.99	37.80	2.31	54.00	16.20	150	139	Horizontal
3	4924.00	40.21	-18.87	74.00	33.79	150	51	Horizontal
4	4924.00	28.51	-18.87	54.00	25.49	150	342	Horizontal
5	7386.00	47.08	-10.72	74.00	26.92	150	84	Horizontal
6	7386.00	35.12	-10.72	54.00	18.88	150	164	Horizontal
7	17537.4	45.91	0.83	54.00	8.09	150	333	Horizontal

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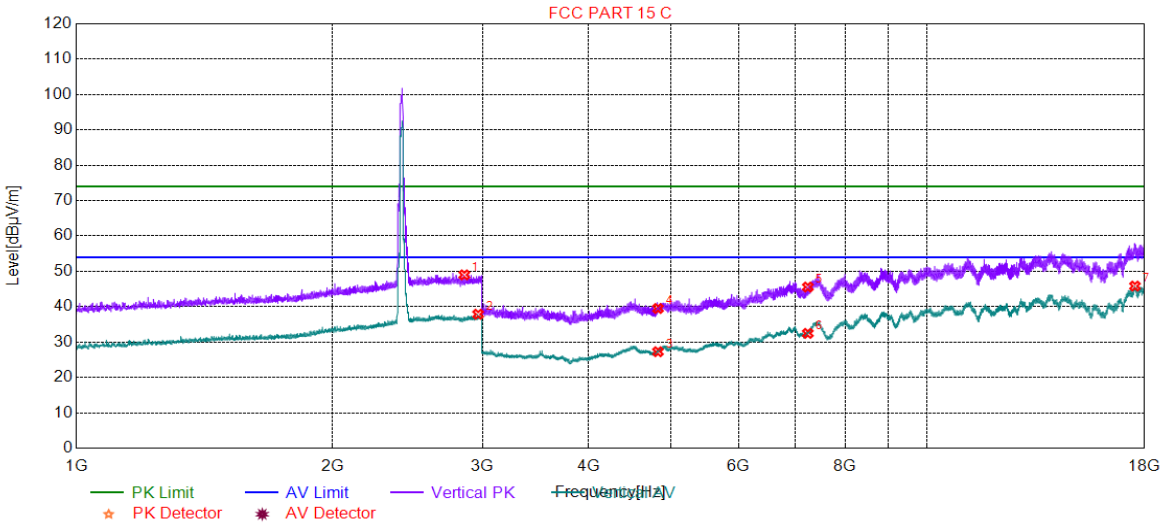
4.9.2.1.13 802.11N20_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2856.96	49.00	2.21	74.00	25.00	150	198	Vertical
2	2965.49	37.88	2.31	54.00	16.12	150	261	Vertical
3	4824.00	27.28	-20.09	54.00	26.72	150	18	Vertical
4	4824.00	39.50	-20.09	74.00	34.50	150	82	Vertical
5	7236.00	45.56	-12.40	74.00	28.44	150	164	Vertical
6	7236.00	32.47	-12.40	54.00	21.53	150	66	Vertical
7	17534.4	45.83	0.79	54.00	8.17	150	18	Vertical

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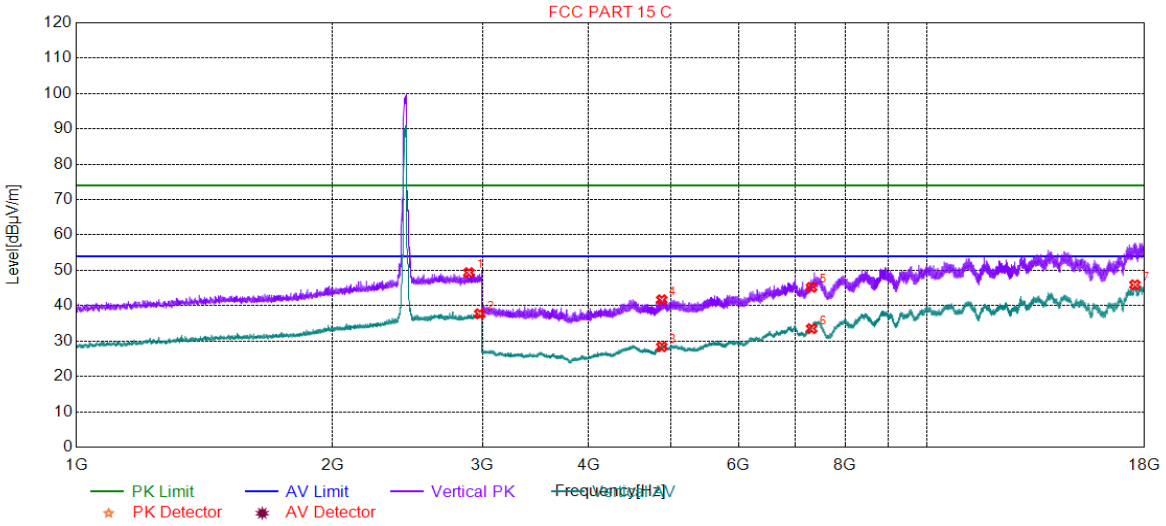
4.9.2.1.14 802.11N20_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2892.47	49.37	2.25	74.00	24.63	150	80	Vertical
2	2978.99	37.71	2.32	54.00	16.29	150	333	Vertical
3	4874.00	28.40	-19.37	54.00	25.60	150	114	Vertical
4	4874.00	41.68	-19.37	74.00	32.32	150	16	Vertical
5	7311.00	45.20	-11.50	74.00	28.80	150	326	Vertical
6	7311.00	33.53	-11.50	54.00	20.47	150	98	Vertical
7	17535.4	45.91	0.80	54.00	8.09	150	276	Vertical

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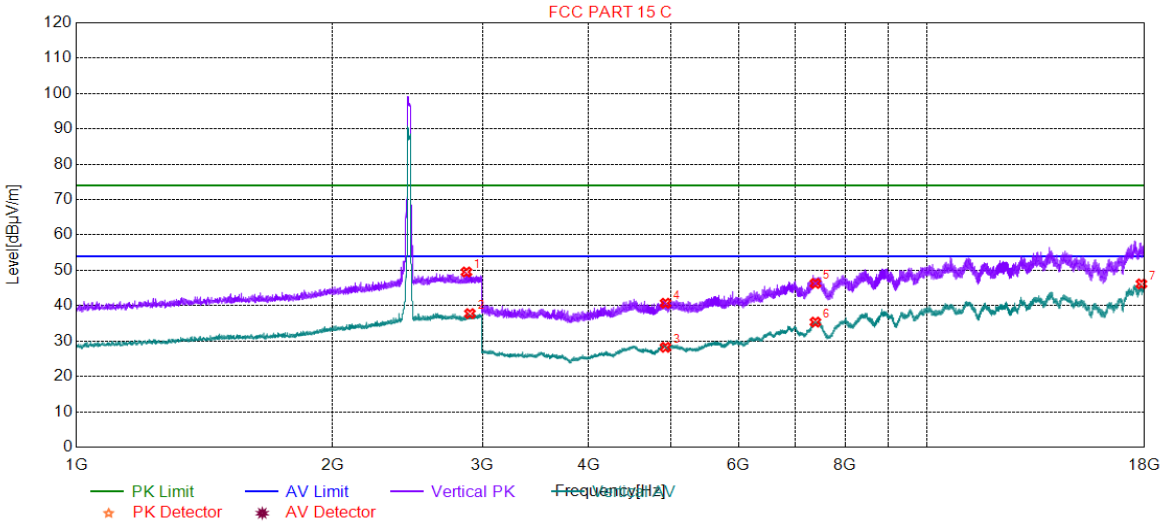
4.9.2.1.15 802.11N20_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2873.46	49.54	2.23	74.00	24.46	150	221	Vertical
2	2900.47	37.77	2.26	54.00	16.23	150	64	Vertical
3	4924.00	28.24	-18.87	54.00	25.76	150	51	Vertical
4	4924.00	40.71	-18.87	74.00	33.29	150	51	Vertical
5	7386.00	46.30	-10.72	74.00	27.70	150	326	Vertical
6	7386.00	35.37	-10.72	54.00	18.63	150	19	Vertical
7	17844.9	46.17	-0.92	54.00	7.83	150	161	Vertical

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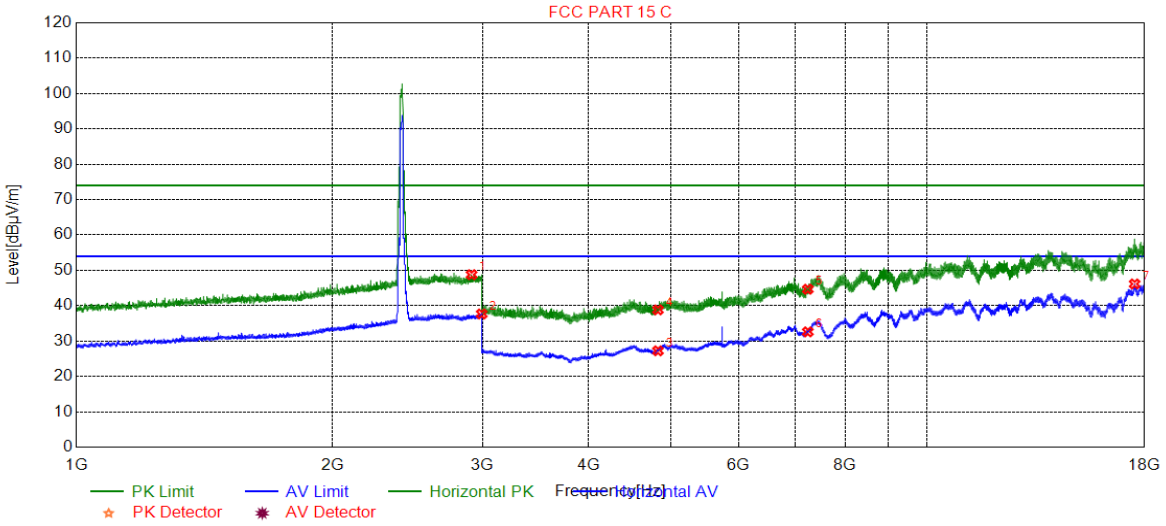
4.9.2.1.16 802.11N20_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2913.47	48.78	2.27	74.00	25.22	150	240	Horizontal
2	2994.49	37.67	2.33	54.00	16.33	150	0	Horizontal
3	4824.00	27.24	-20.09	54.00	26.76	150	197	Horizontal
4	4824.00	38.83	-20.09	74.00	35.17	150	148	Horizontal
5	7236.00	44.67	-12.40	74.00	29.33	150	83	Horizontal
6	7236.00	32.61	-12.40	54.00	21.39	150	342	Horizontal
7	17520.9	46.16	0.62	54.00	7.84	150	18	Horizontal

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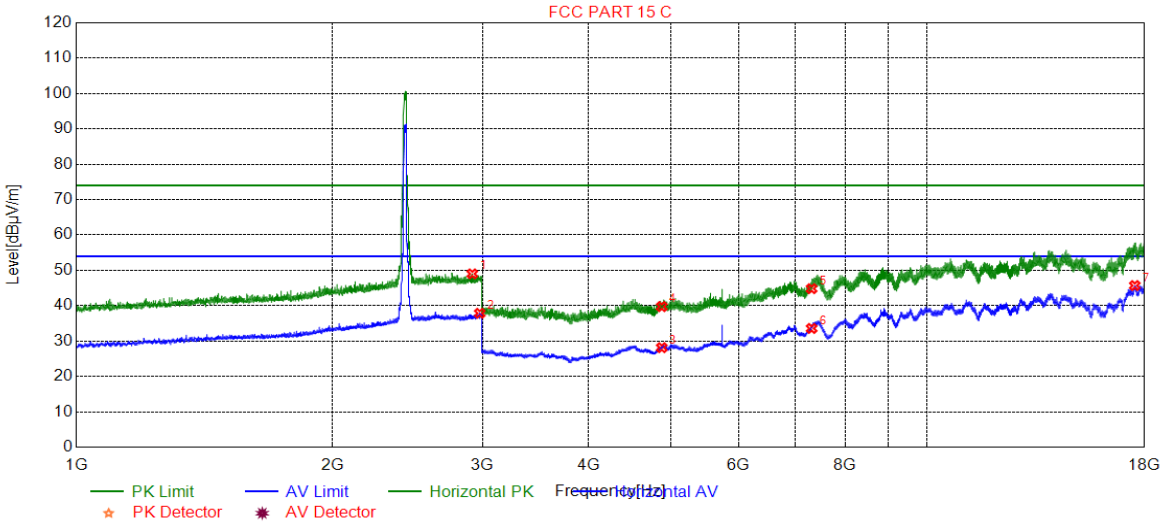
4.9.2.1.17 802.11N20_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2918.97	49.01	2.27	74.00	24.99	150	232	Horizontal
2	2978.49	37.86	2.31	54.00	16.14	150	1	Horizontal
3	4874.00	28.14	-19.37	54.00	25.86	150	163	Horizontal
4	4874.00	39.75	-19.37	74.00	34.25	150	34	Horizontal
5	7311.00	44.82	-11.50	74.00	29.18	150	278	Horizontal
6	7311.00	33.57	-11.50	54.00	20.43	150	3	Horizontal
7	17526.4	45.70	0.69	54.00	8.30	150	358	Horizontal

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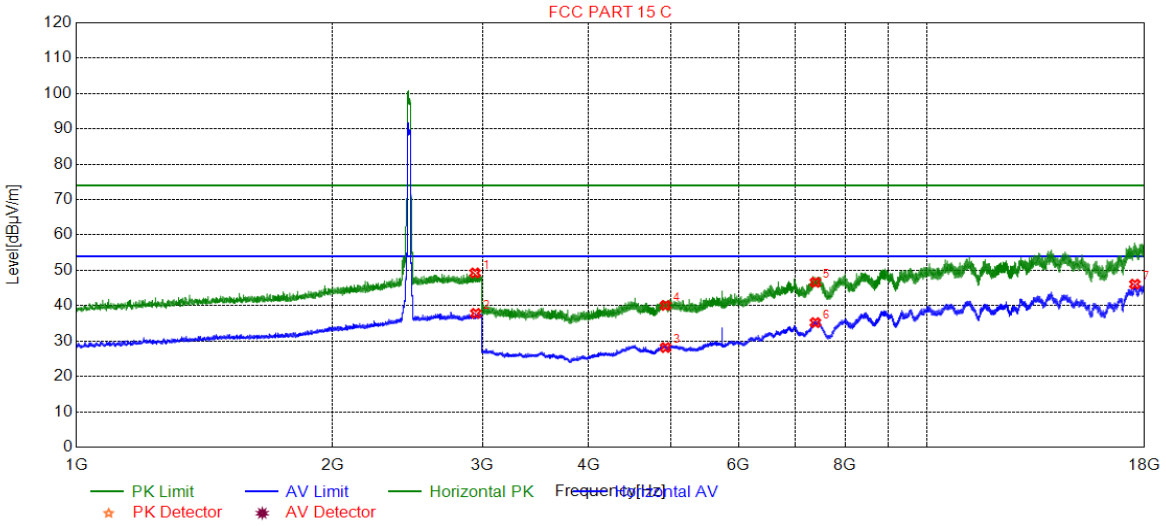
4.9.2.1.18 802.11N20_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2941.48	49.26	2.29	74.00	24.74	150	29	Horizontal
2	2946.98	37.84	2.29	54.00	16.16	150	108	Horizontal
3	4924.00	28.18	-18.87	54.00	25.82	150	115	Horizontal
4	4924.00	40.08	-18.87	74.00	33.92	150	293	Horizontal
5	7386.00	46.61	-10.72	74.00	27.39	150	18	Horizontal
6	7386.00	35.22	-10.72	54.00	18.78	150	99	Horizontal
7	17534.4	46.09	0.79	54.00	7.91	150	18	Horizontal

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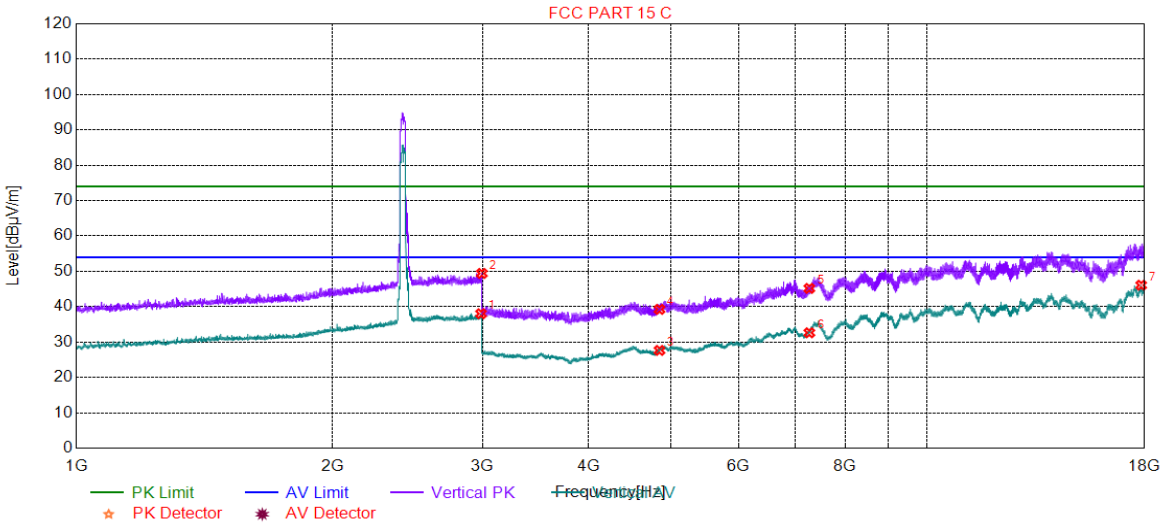
4.9.2.1.19 802.11N40_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2988.99	38.03	2.32	54.00	15.97	150	167	Vertical
2	2995.49	49.41	2.33	74.00	24.59	150	17	Vertical
3	4844.00	27.65	-19.80	54.00	26.35	150	148	Vertical
4	4844.00	39.25	-19.80	74.00	34.75	150	35	Vertical
5	7266.00	45.18	-12.03	74.00	28.82	150	310	Vertical
6	7266.00	32.63	-12.03	54.00	21.37	150	68	Vertical
7	17834.9	46.09	-0.89	54.00	7.91	150	248	Vertical

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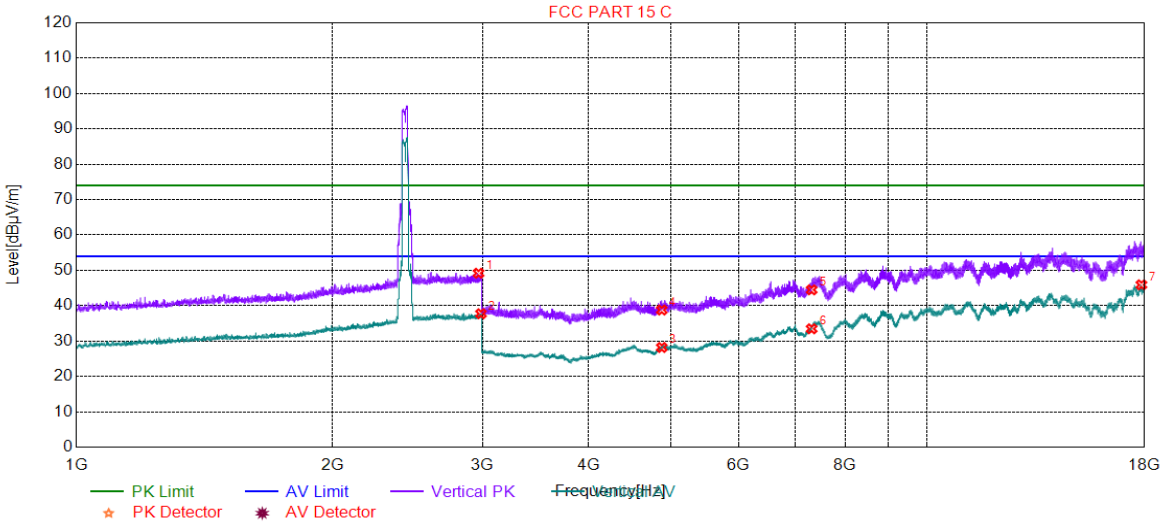
4.9.2.1.20 802.11N40_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2968.99	49.19	2.31	74.00	24.81	150	349	Vertical
2	2988.49	37.74	2.32	54.00	16.26	150	262	Vertical
3	4874.00	28.20	-19.37	54.00	25.80	150	99	Vertical
4	4874.00	38.79	-19.37	74.00	35.21	150	326	Vertical
5	7311.00	44.49	-11.50	74.00	29.51	150	34	Vertical
6	7311.00	33.47	-11.50	54.00	20.53	150	116	Vertical
7	17845.4	45.91	-0.92	54.00	8.09	150	333	Vertical

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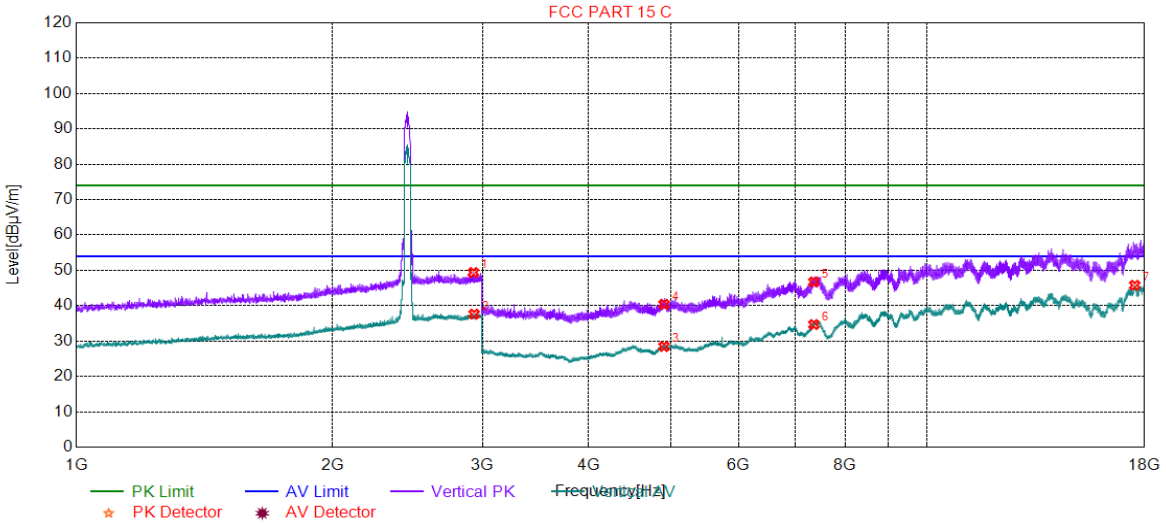
4.9.2.1.21 802.11N40_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2927.98	49.39	2.28	74.00	24.61	150	167	Vertical
2	2933.48	37.63	2.28	54.00	16.37	150	49	Vertical
3	4904.00	28.46	-18.98	54.00	25.54	150	277	Vertical
4	4904.00	40.40	-18.98	74.00	33.60	150	18	Vertical
5	7356.00	46.73	-11.03	74.00	27.27	150	83	Vertical
6	7356.00	34.68	-11.03	54.00	19.32	150	99	Vertical
7	17525.9	45.78	0.68	54.00	8.22	150	360	Vertical

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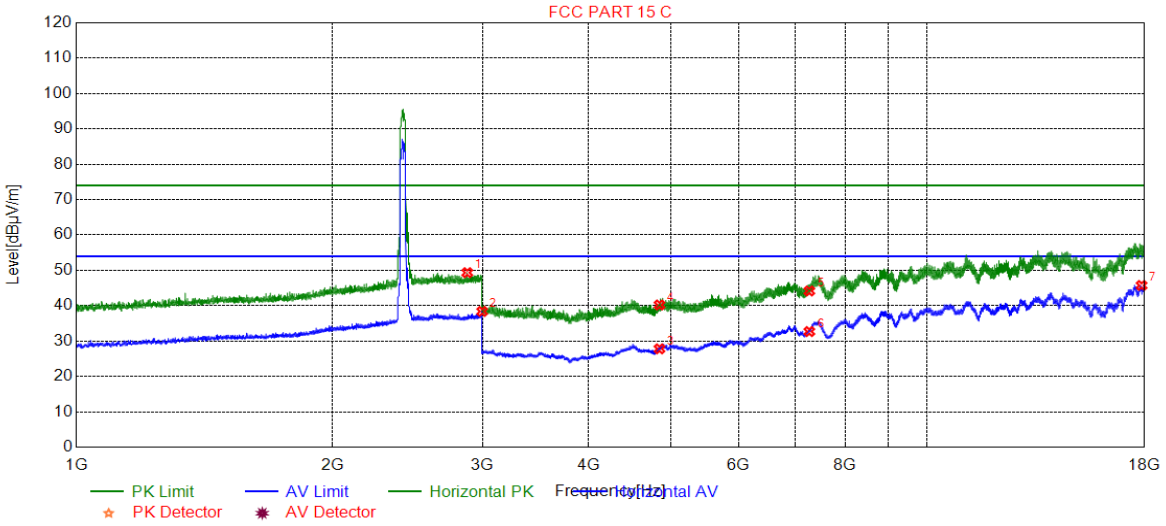
4.9.2.1.22 802.11N40_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2879.46	49.35	2.24	74.00	24.65	150	0	Horizontal
2	2997.99	38.39	2.33	54.00	15.61	150	162	Horizontal
3	4844.00	27.81	-19.80	54.00	26.19	150	195	Horizontal
4	4844.00	40.22	-19.80	74.00	33.78	150	212	Horizontal
5	7266.00	44.18	-12.03	74.00	29.82	150	309	Horizontal
6	7266.00	32.70	-12.03	54.00	21.30	150	33	Horizontal
7	17851.9	45.73	-0.95	54.00	8.27	150	104	Horizontal

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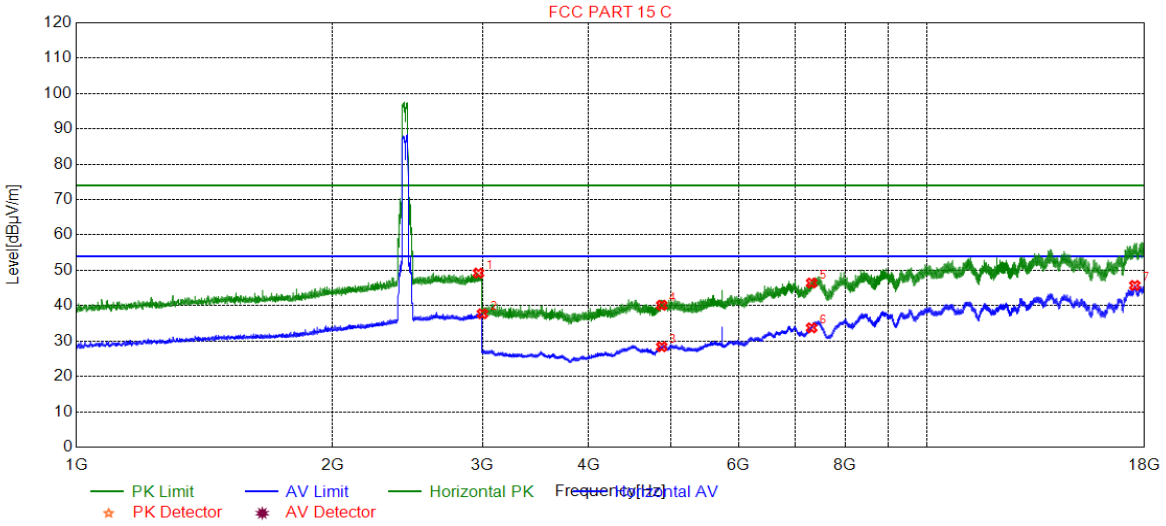
4.9.2.1.23 802.11N40_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2967.99	49.23	2.31	74.00	24.77	150	90	Horizontal
2	3000.00	37.73	2.33	54.00	16.27	150	240	Horizontal
3	4874.00	28.40	-19.37	54.00	25.60	150	132	Horizontal
4	4874.00	40.13	-19.37	74.00	33.87	150	304	Horizontal
5	7311.00	46.42	-11.50	74.00	27.58	150	132	Horizontal
6	7311.00	33.74	-11.50	54.00	20.26	150	242	Horizontal
7	17529.4	45.73	0.73	54.00	8.27	150	334	Horizontal

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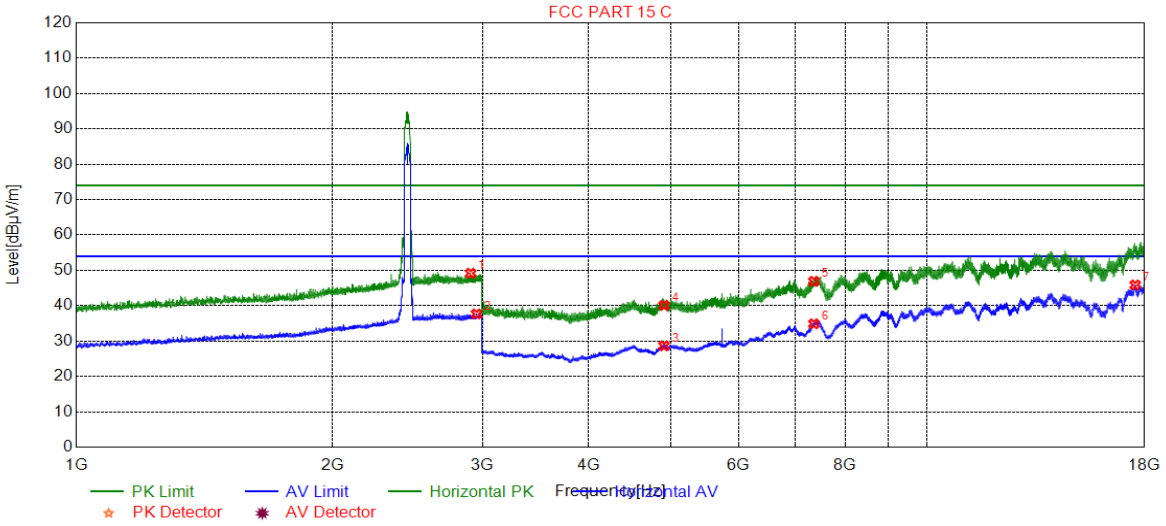
4.9.2.1.24 802.11N40_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2905.97	49.18	2.26	74.00	24.82	150	162	Horizontal
2	2952.98	37.68	2.30	54.00	16.32	150	122	Horizontal
3	4904.00	28.66	-18.98	54.00	25.34	150	98	Horizontal
4	4904.00	40.10	-18.98	74.00	33.90	150	342	Horizontal
5	7356.00	46.91	-11.03	74.00	27.09	150	147	Horizontal
6	7356.00	34.89	-11.03	54.00	19.11	150	6	Horizontal
7	17547.9	45.87	0.96	54.00	8.13	150	191	Horizontal

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

   Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3）As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

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

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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

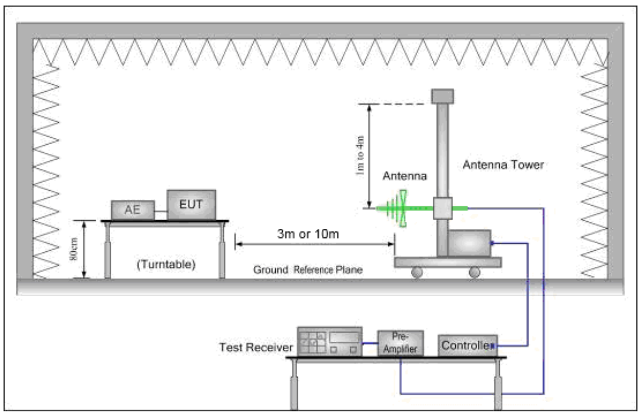

Figure 1. 30MHz to 1GHz

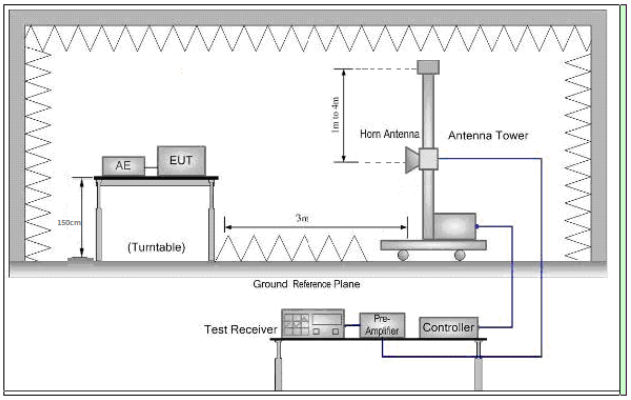

Figure 2. Above 1 GHz

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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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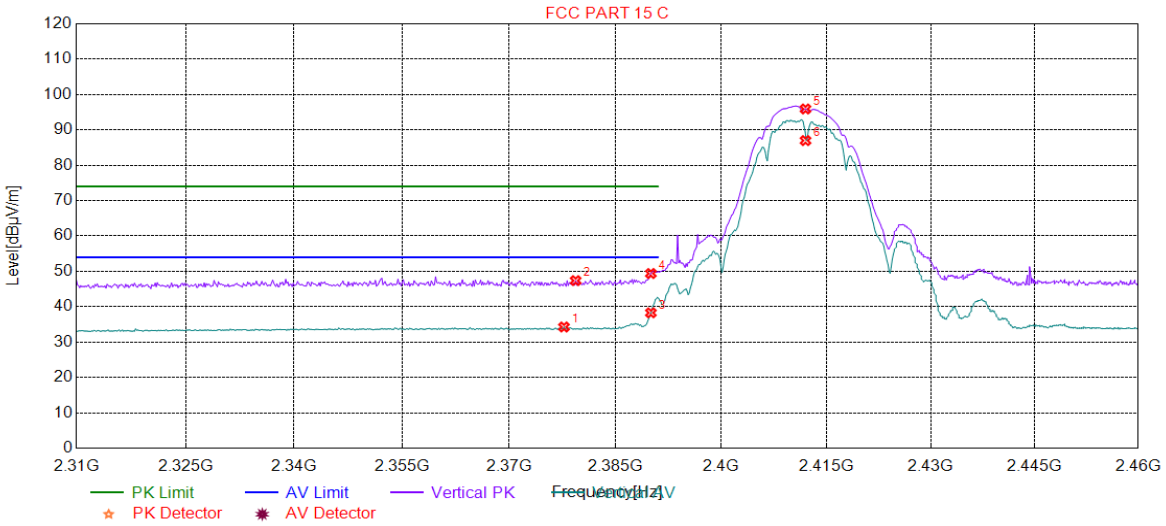
Test plot as follows:

4.10.1 ANT1

4.10.1.1 802.11B_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.71	34.27	7.78	54.00	19.73	150	346	Vertical
2	2379.36	47.38	7.78	74.00	26.62	150	234	Vertical
3	2390.00	38.28	7.77	54.00	15.72	150	44	Vertical
4	2390.00	49.39	7.77	74.00	24.61	150	322	Vertical
5	2412.00	95.92	7.81	0.00	-95.92	150	44	Vertical
6	2412.00	86.98	7.81	0.00	-86.98	150	346	Vertical

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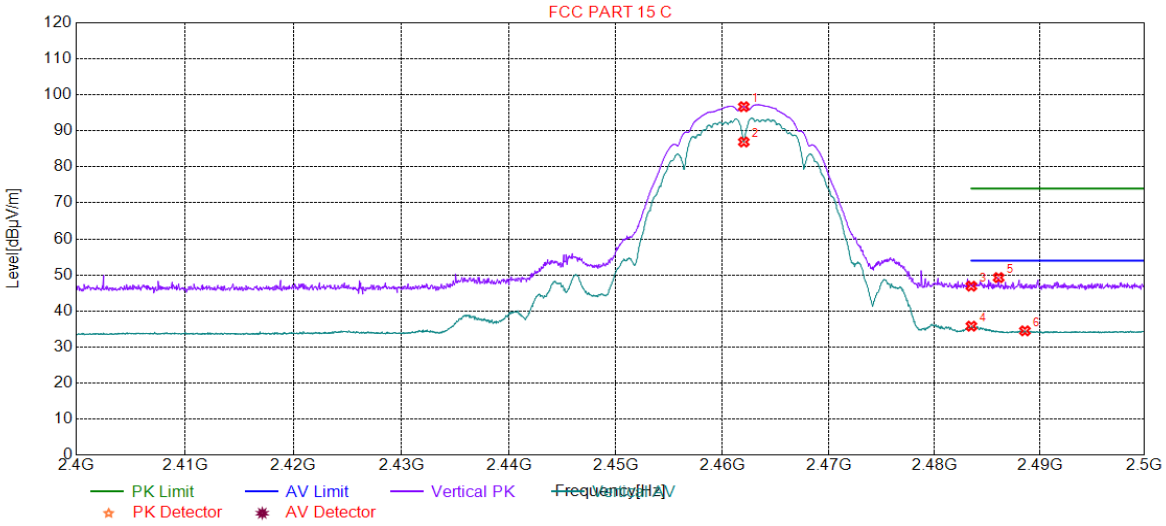
4.10.1.2 802.11B_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	96.71	7.98	0.00	-96.71	150	278	Vertical
2	2462.00	86.91	7.98	0.00	-86.91	150	278	Vertical
3	2483.50	46.89	8.01	74.00	27.11	150	128	Vertical
4	2483.50	35.79	8.01	54.00	18.21	150	278	Vertical
5	2486.09	49.27	8.01	74.00	24.73	150	178	Vertical
6	2488.59	34.48	8.02	54.00	19.52	150	35	Vertical

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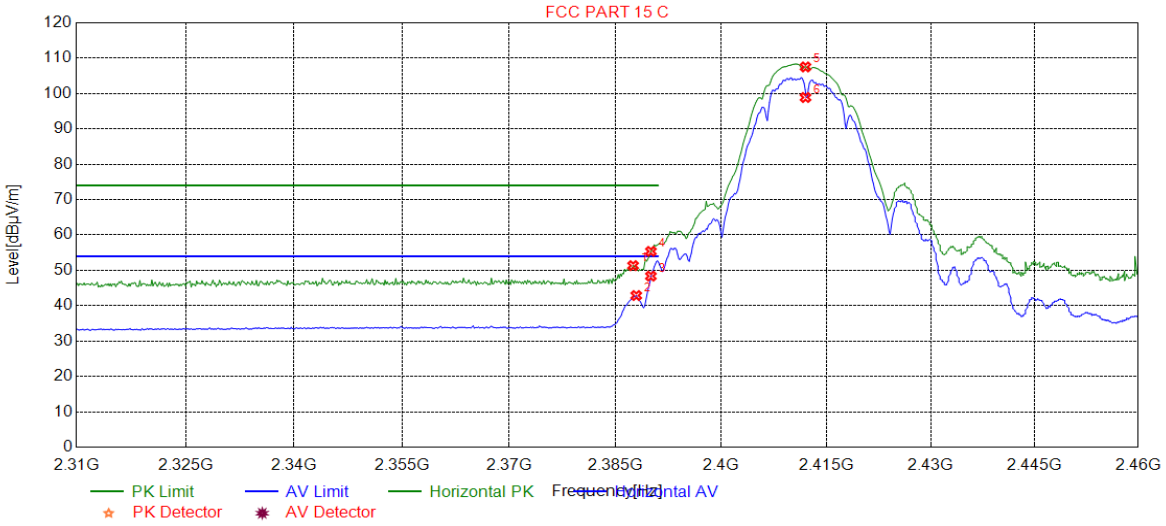
4.10.1.3 802.11B_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.47	51.33	7.77	74.00	22.67	150	261	Horizontal
2	2387.92	42.88	7.77	54.00	11.12	150	223	Horizontal
3	2390.00	48.37	7.77	54.00	5.63	150	220	Horizontal
4	2390.00	55.37	7.77	74.00	18.63	150	220	Horizontal
5	2412.00	107.52	7.81	0.00	-107.52	150	257	Horizontal
6	2412.00	98.88	7.81	0.00	-98.88	150	223	Horizontal

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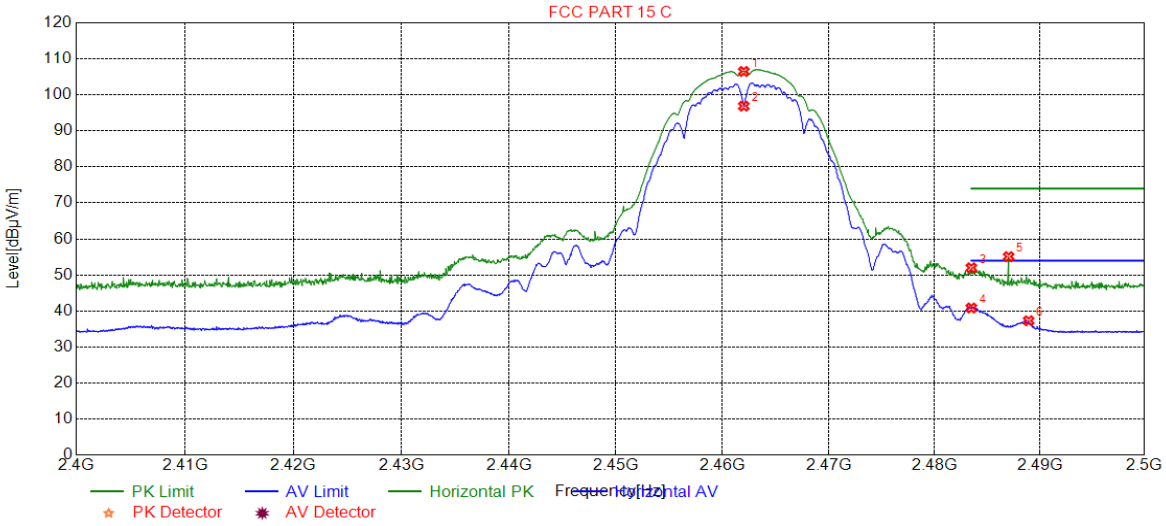
4.10.1.4 802.11B_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	106.49	7.98	0.00	-106.49	150	292	Horizontal
2	2462.00	96.86	7.98	0.00	-96.86	150	298	Horizontal
3	2483.50	51.99	8.01	74.00	22.01	150	292	Horizontal
4	2483.50	40.83	8.01	54.00	13.17	150	298	Horizontal
5	2487.04	55.08	8.01	74.00	18.92	150	37	Horizontal
6	2488.94	37.29	8.02	54.00	16.71	150	287	Horizontal

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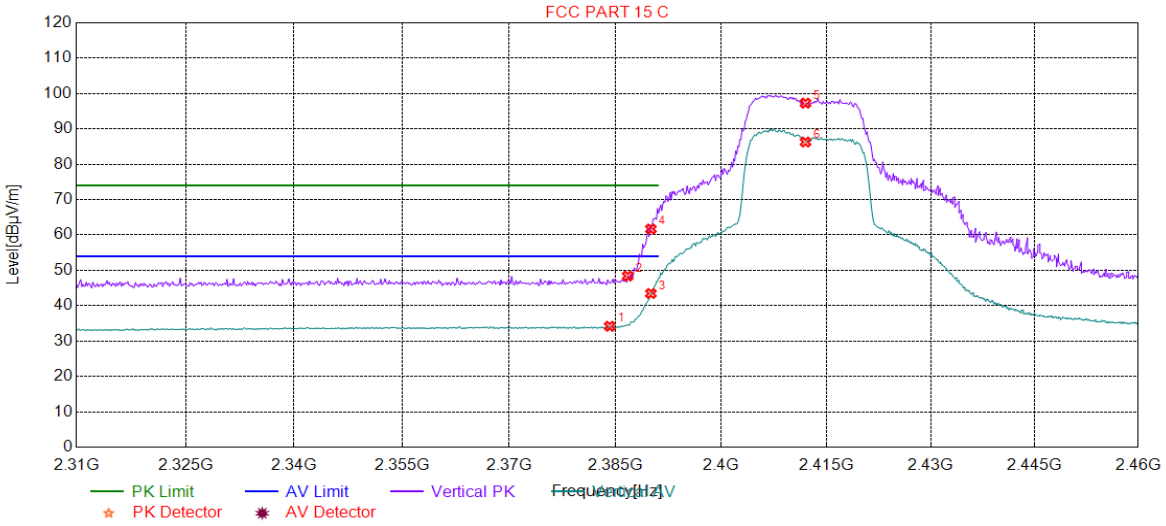
4.10.1.5 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.17	34.19	7.78	54.00	19.81	150	273	Vertical
2	2386.72	48.40	7.77	74.00	25.60	150	273	Vertical
3	2390.00	43.46	7.77	54.00	10.54	150	273	Vertical
4	2390.00	61.69	7.77	74.00	12.31	150	240	Vertical
5	2412.00	97.28	7.81	0.00	-97.28	150	273	Vertical
6	2412.00	86.29	7.81	0.00	-86.29	150	273	Vertical

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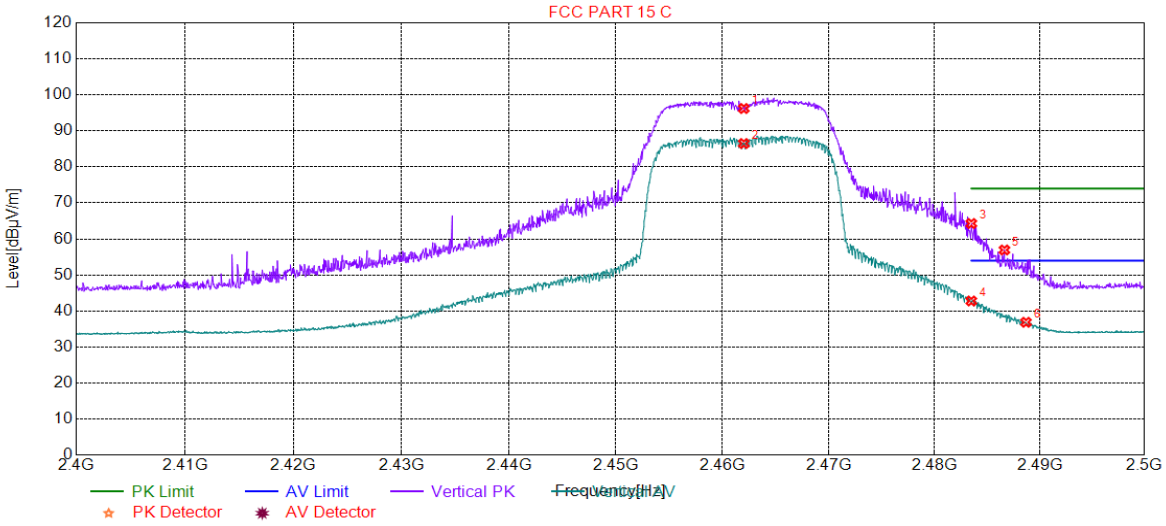
4.10.1.6 802.11G_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	96.20	7.98	0.00	-96.20	150	233	Vertical
2	2462.00	86.49	7.98	0.00	-86.49	150	233	Vertical
3	2483.50	64.28	8.01	74.00	9.72	150	252	Vertical
4	2483.50	42.78	8.01	54.00	11.22	150	258	Vertical
5	2486.64	56.94	8.01	74.00	17.06	150	258	Vertical
6	2488.69	36.87	8.02	54.00	17.13	150	258	Vertical

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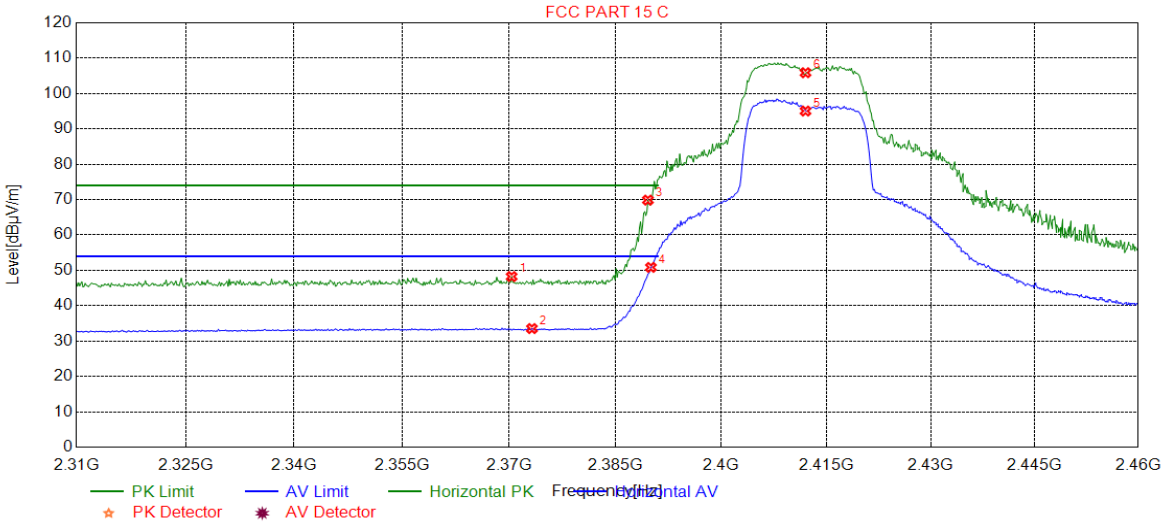
4.10.1.7 802.11G_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.36	48.24	7.79	74.00	25.76	150	323	Horizontal
2	2373.21	33.54	7.79	54.00	20.46	150	302	Horizontal
3	2389.57	69.86	7.77	74.00	4.14	150	302	Horizontal
4	2390.00	50.84	7.77	54.00	3.16	150	302	Horizontal
5	2412.00	95.05	7.81	0.00	-95.05	150	302	Horizontal
6	2412.00	105.88	7.81	0.00	-105.88	150	331	Horizontal

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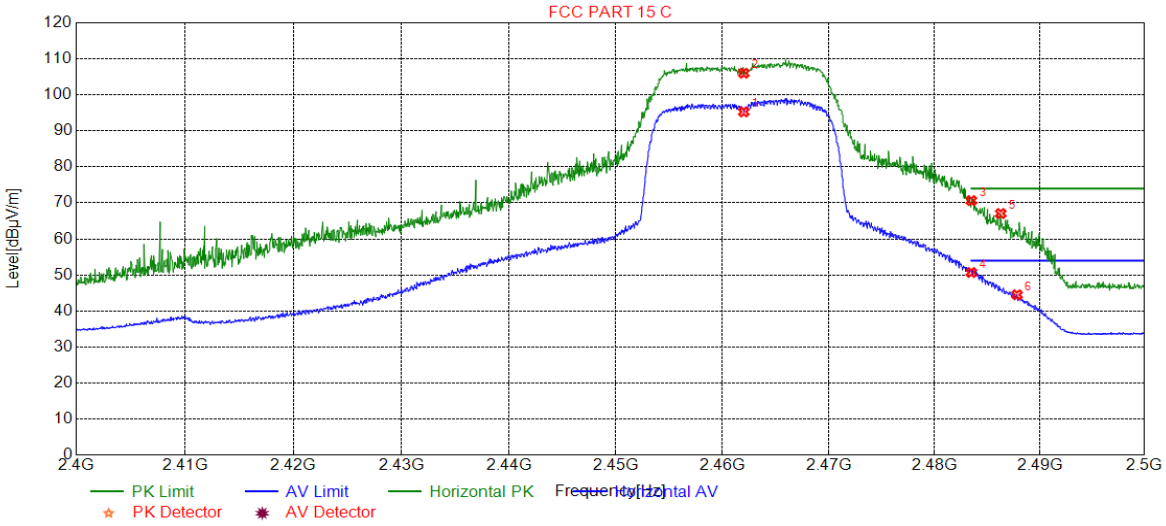
4.10.1.8 802.11G_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	95.27	7.98	0.00	-95.27	150	287	Horizontal
2	2462.00	106.01	7.98	0.00	-106.01	150	308	Horizontal
3	2483.50	70.65	8.01	74.00	3.35	150	303	Horizontal
4	2483.50	50.69	8.01	54.00	3.31	150	308	Horizontal
5	2486.29	67.06	8.01	74.00	6.94	150	303	Horizontal
6	2487.84	44.50	8.02	54.00	9.50	150	308	Horizontal

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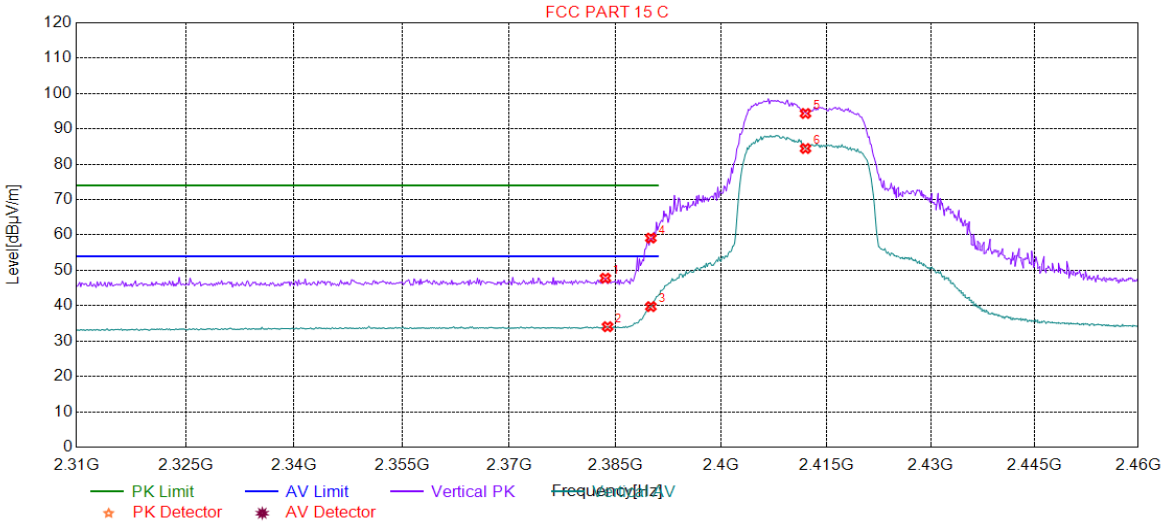
4.10.1.9 802.11N20_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.57	47.79	7.78	74.00	26.21	150	94	Vertical
2	2383.87	34.07	7.78	54.00	19.93	150	112	Vertical
3	2390.00	39.75	7.77	54.00	14.25	150	208	Vertical
4	2390.00	59.14	7.77	74.00	14.86	150	274	Vertical
5	2412.00	94.36	7.81	0.00	-94.36	150	193	Vertical
6	2412.00	84.46	7.81	0.00	-84.46	150	214	Vertical

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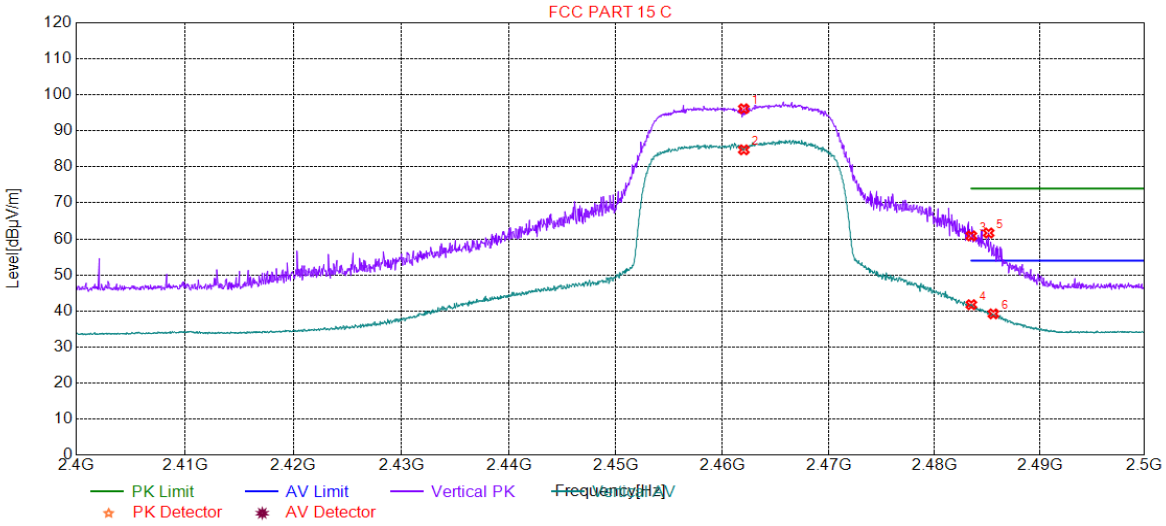
4.10.1.10 802.11N20_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	96.14	7.98	0.00	-96.14	150	215	Vertical
2	2462.00	84.74	7.98	0.00	-84.74	150	215	Vertical
3	2483.50	60.85	8.01	74.00	13.15	150	23	Vertical
4	2483.50	41.76	8.01	54.00	12.24	150	132	Vertical
5	2485.14	61.65	8.01	74.00	12.35	150	185	Vertical
6	2485.59	39.21	8.01	54.00	14.79	150	132	Vertical

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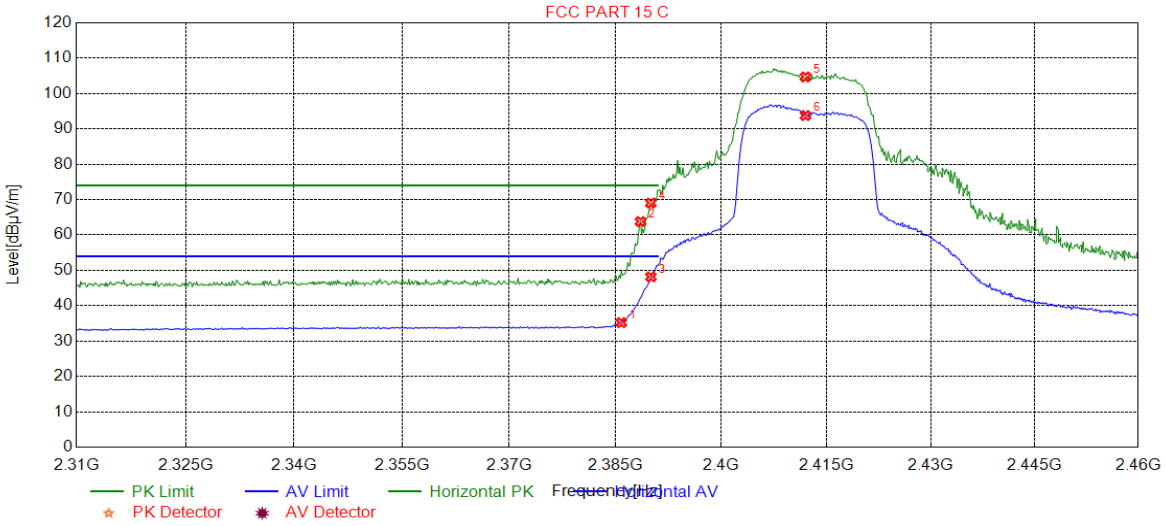
4.10.1.11 802.11N20_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.82	35.23	7.77	54.00	18.77	150	347	Horizontal
2	2388.52	63.80	7.77	74.00	10.20	150	315	Horizontal
3	2390.00	48.17	7.77	54.00	5.83	150	315	Horizontal
4	2390.00	69.03	7.77	74.00	4.97	150	299	Horizontal
5	2412.00	104.69	7.81	0.00	-104.69	150	315	Horizontal
6	2412.00	93.78	7.81	0.00	-93.78	150	347	Horizontal

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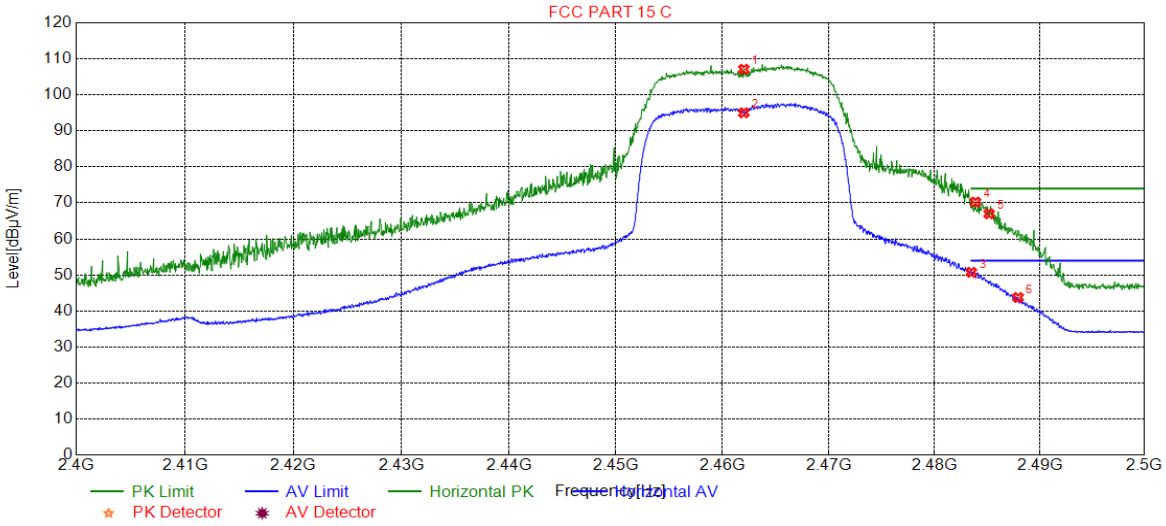
4.10.1.12 802.11N20_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	107.10	7.98	0.00	-107.10	150	307	Horizontal
2	2462.00	95.02	7.98	0.00	-95.02	150	307	Horizontal
3	2483.50	50.73	8.01	54.00	3.27	150	307	Horizontal
4	2483.89	70.25	8.01	74.00	3.75	150	290	Horizontal
5	2485.19	66.98	8.01	74.00	7.02	150	235	Horizontal
6	2487.94	43.74	8.02	54.00	10.26	150	307	Horizontal

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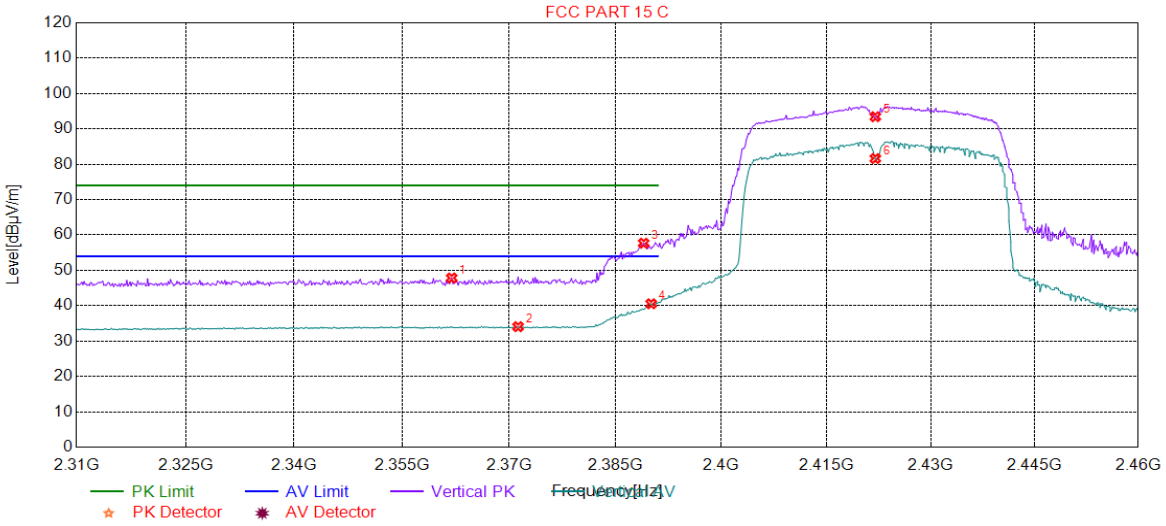
4.10.1.13 802.11N40_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.95	47.84	7.80	74.00	26.16	150	346	Vertical
2	2371.26	34.07	7.79	54.00	19.93	150	44	Vertical
3	2388.97	57.68	7.77	74.00	16.32	150	281	Vertical
4	2390.03	40.55	7.77	54.00	13.45	150	148	Vertical
5	2422.00	93.44	7.85	0.00	-93.44	150	31	Vertical
6	2422.00	81.62	7.85	0.00	-81.62	150	35	Vertical

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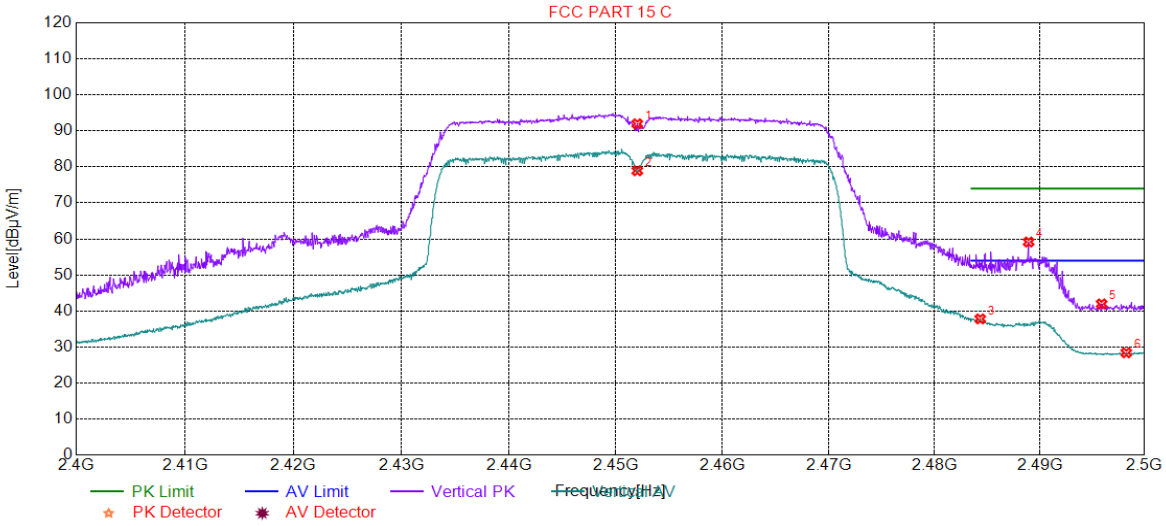
4.10.1.14 802.11N40_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	91.96	7.97	0.00	-91.96	150	29	Vertical
2	2452.00	78.93	7.97	0.00	-78.93	150	35	Vertical
3	2484.34	37.81	8.01	54.00	16.19	150	62	Vertical
4	2488.94	59.16	8.02	74.00	14.84	150	96	Vertical
5	2495.89	41.96	8.03	74.00	32.04	150	160	Vertical
6	2498.24	28.40	8.03	54.00	25.60	150	199	Vertical

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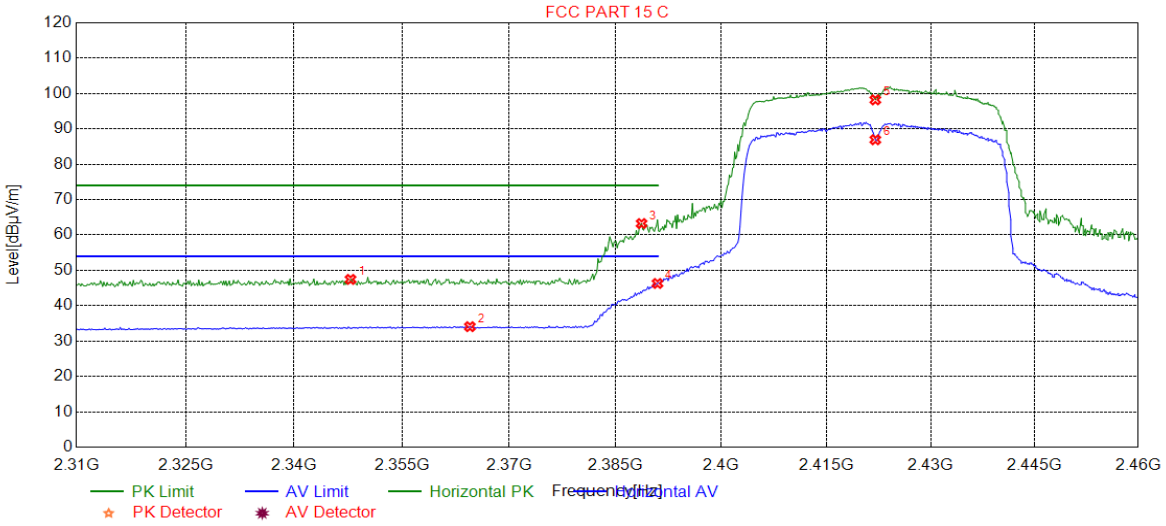
4.10.1.15 802.11N40_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2347.83	47.44	7.79	74.00	26.56	150	212	Horizontal
2	2364.50	34.08	7.80	54.00	19.92	150	46	Horizontal
3	2388.67	63.24	7.77	74.00	10.76	150	200	Horizontal
4	2390.93	46.30	7.77	54.00	7.70	150	191	Horizontal
5	2422.00	98.21	7.85	0.00	-98.21	150	195	Horizontal
6	2422.00	86.93	7.85	0.00	-86.93	150	191	Horizontal

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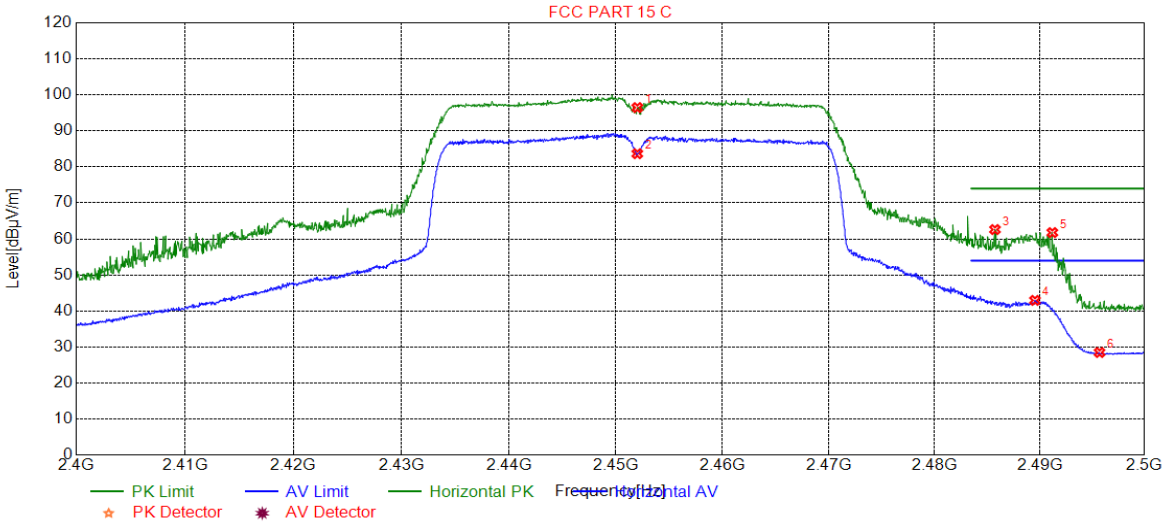
4.10.1.16 802.11N40_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	96.46	7.97	0.00	-96.46	150	128	Horizontal
2	2452.00	83.66	7.97	0.00	-83.66	150	101	Horizontal
3	2485.74	62.61	8.01	74.00	11.39	150	101	Horizontal
4	2489.54	42.94	8.02	54.00	11.06	150	101	Horizontal
5	2491.19	61.76	8.02	74.00	12.24	150	128	Horizontal
6	2495.69	28.48	8.02	54.00	25.52	150	85	Horizontal

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

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

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

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

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6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/4/13	2021/4/12
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/22	2021/3/21

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	2019/7/15	2020/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (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	2019/6/12	2020/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/22	2021/3/21
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/9/3	2020/9/2
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2020/3/22	2021/3/21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

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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
Wideband Radio CommunicationTeste	Anristu	MT8821C	6201462742	2020/3/22	2021/3/21
Wideband Radio CommunicationTester	Rohde & Schwarz	CMW500	W005-02	2020/1/3	2021/1/2
Wideband Radio CommunicationTester	Keysight	UXM	K-E7515B 50667	2019/8/20	2020/8/19
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/3	2021/3/2
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/10/22	2020/10/21
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2020/3/22	2022/3/21
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2019/7/25	2020/7/24
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019/7/25	2020/7/24
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/10/22	2020/10/21
Band filter	N/A	N/A	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11
Tunable Notch Filter WRCD1700/2000-0.2/40-10EEK	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Tunable Notch Filter WRCD800/960-0.2/40-10EEK	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHK1.2/15G-10SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHKX10-2700-3000-18000-40SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHKX7.0/26.5G-6SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Band Reject Filter WRCG 824/849-814/859-40/8SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Band Reject Filter WRCG 1850/1910-1835/1925-40/8SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/40008

The End

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