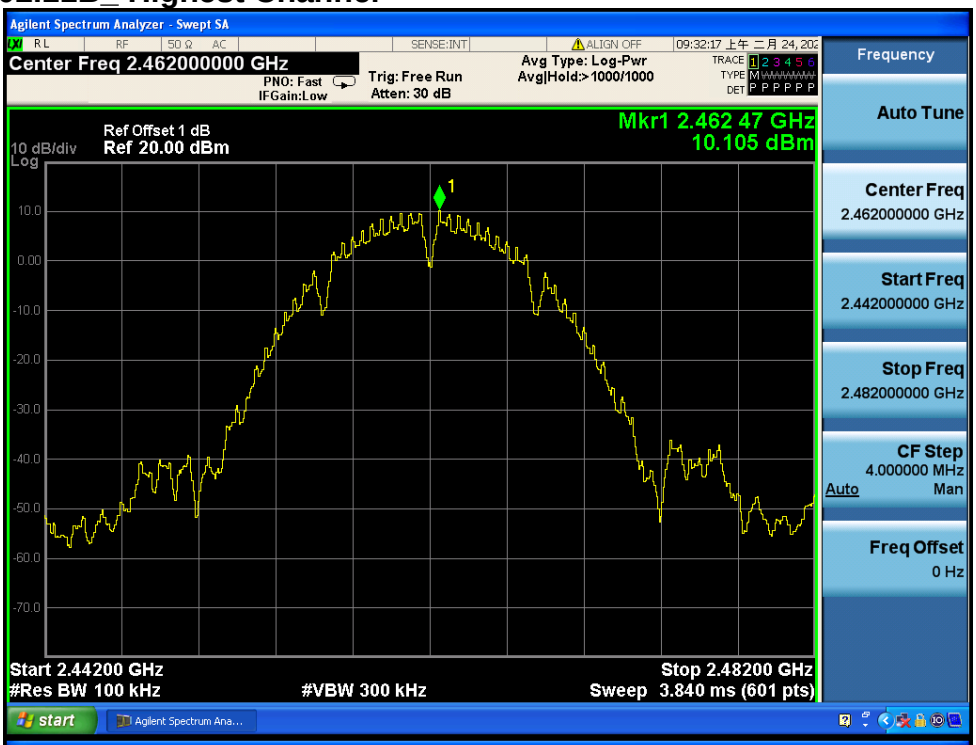
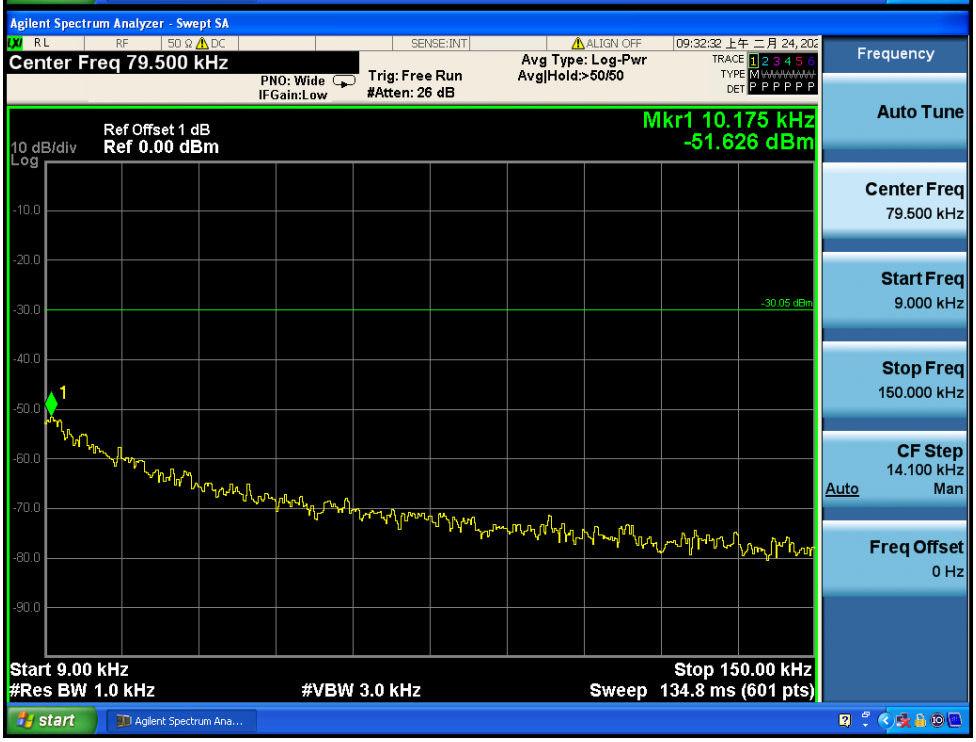
4.8.1.1.3 802.11B_ Highest Channel





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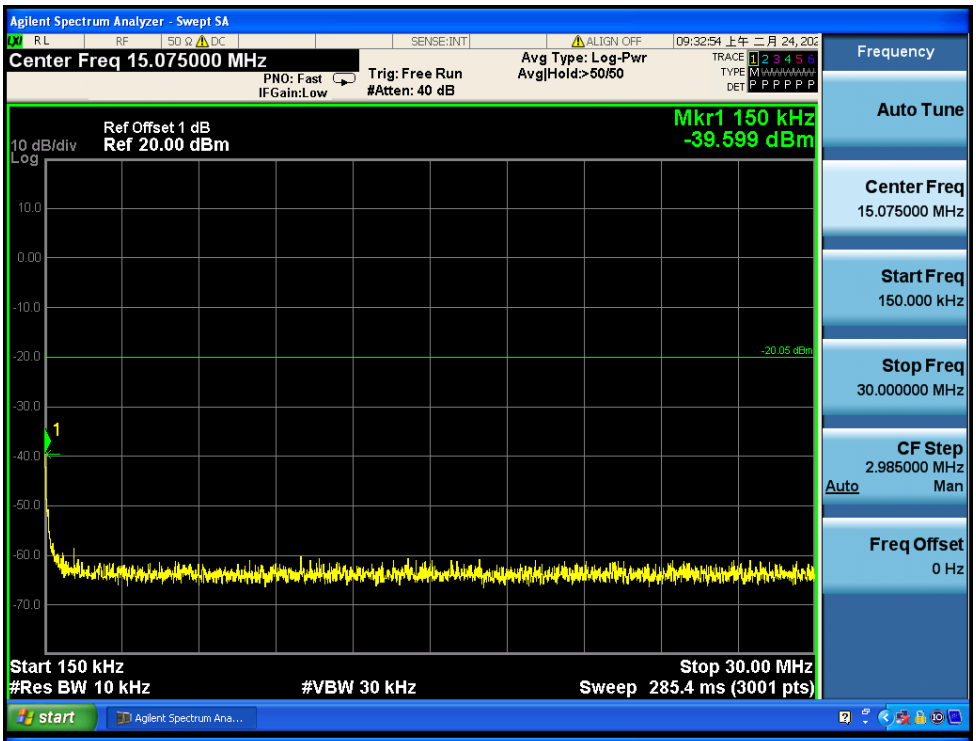

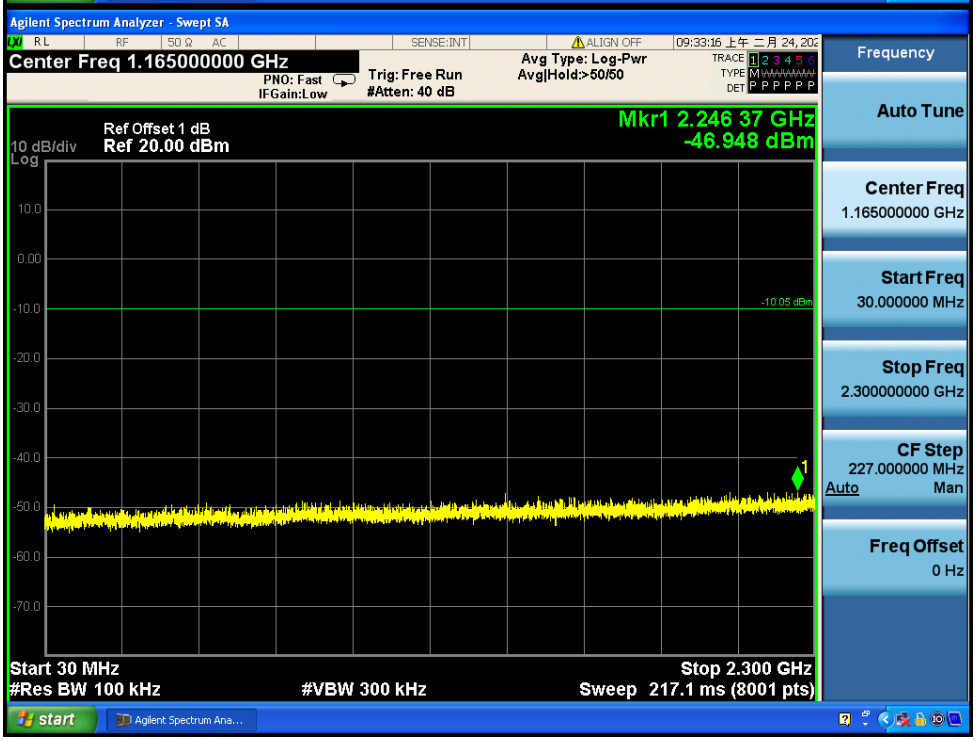

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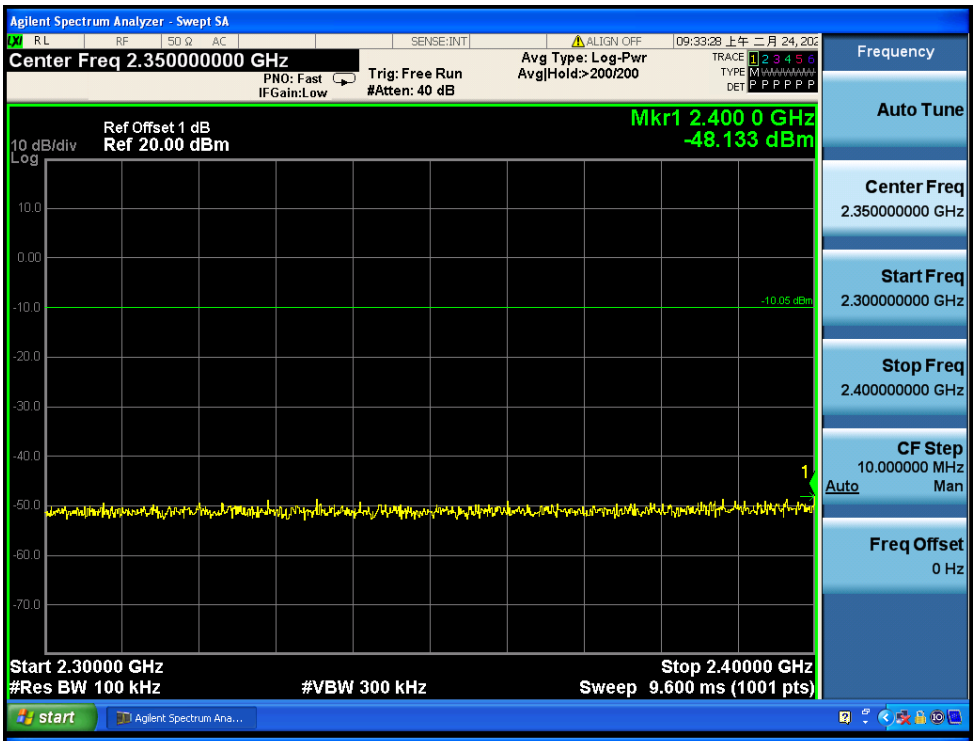

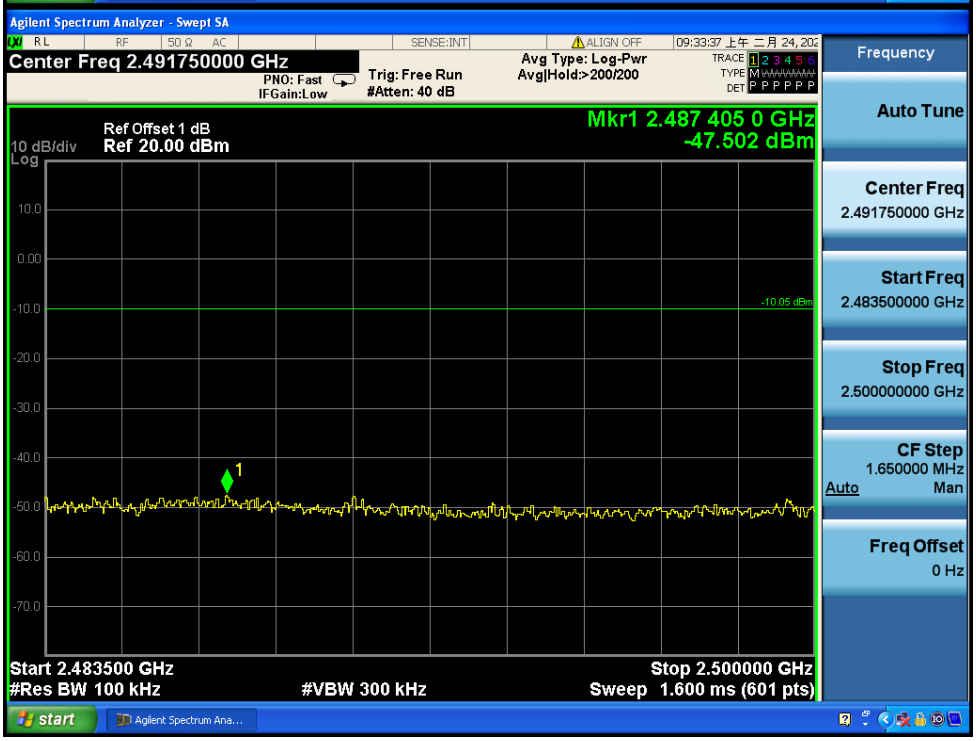

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4.8.1.1.4 802.11G_Lowest Channel

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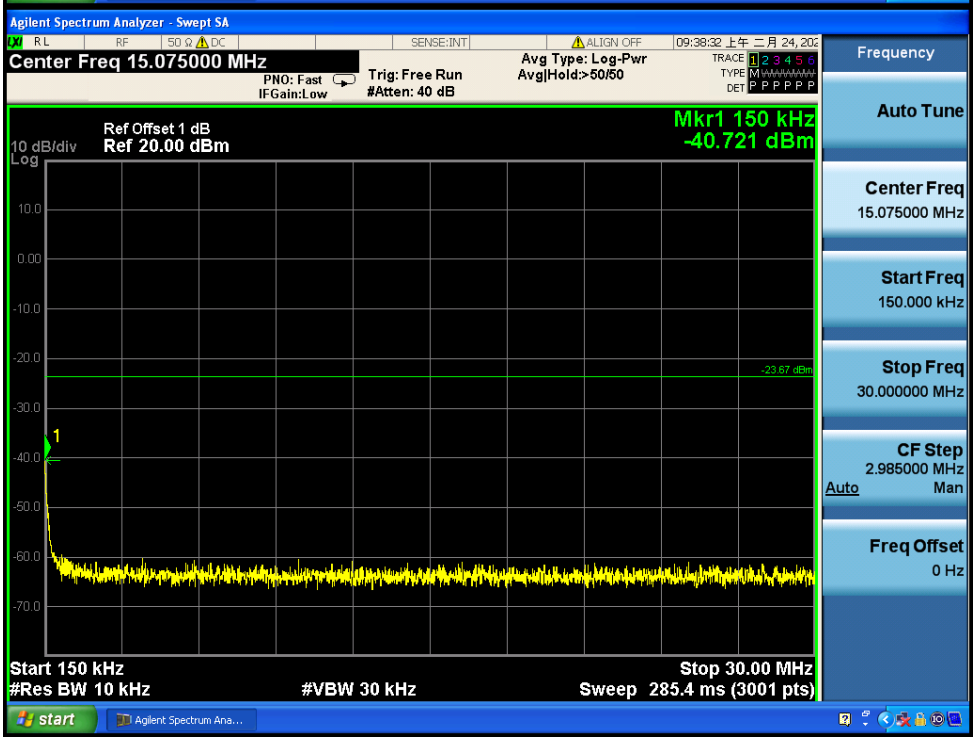

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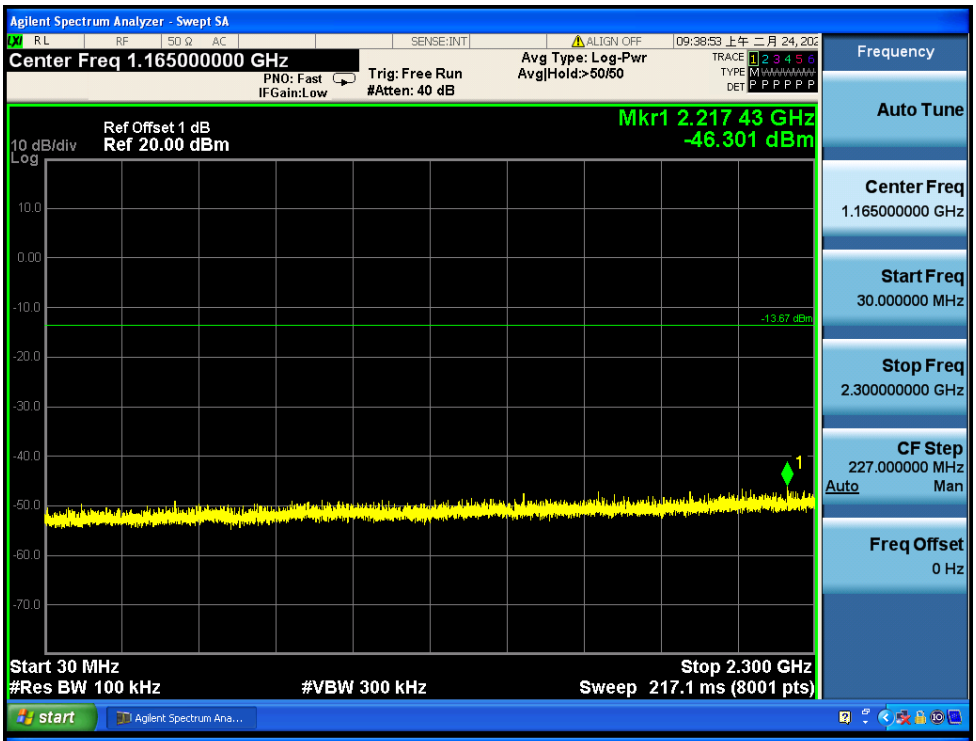

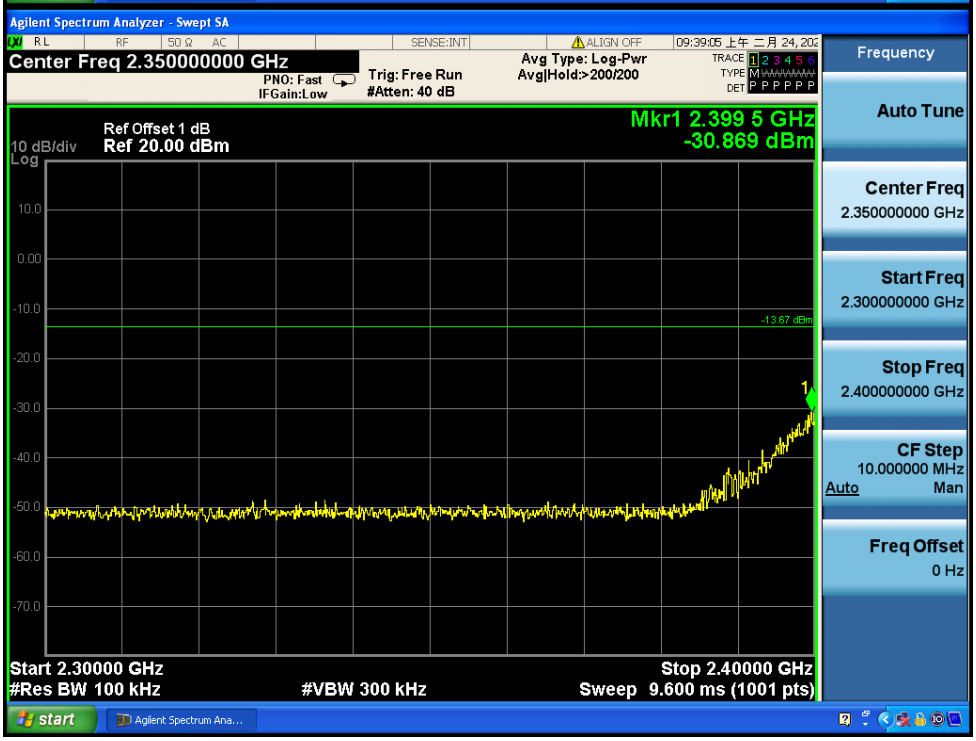

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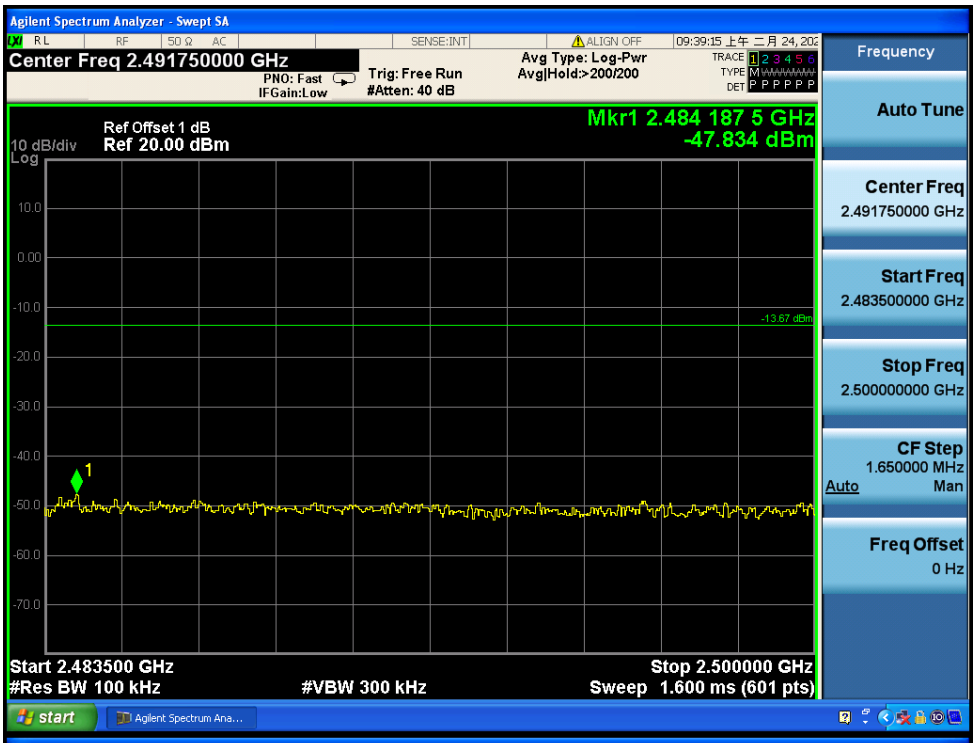

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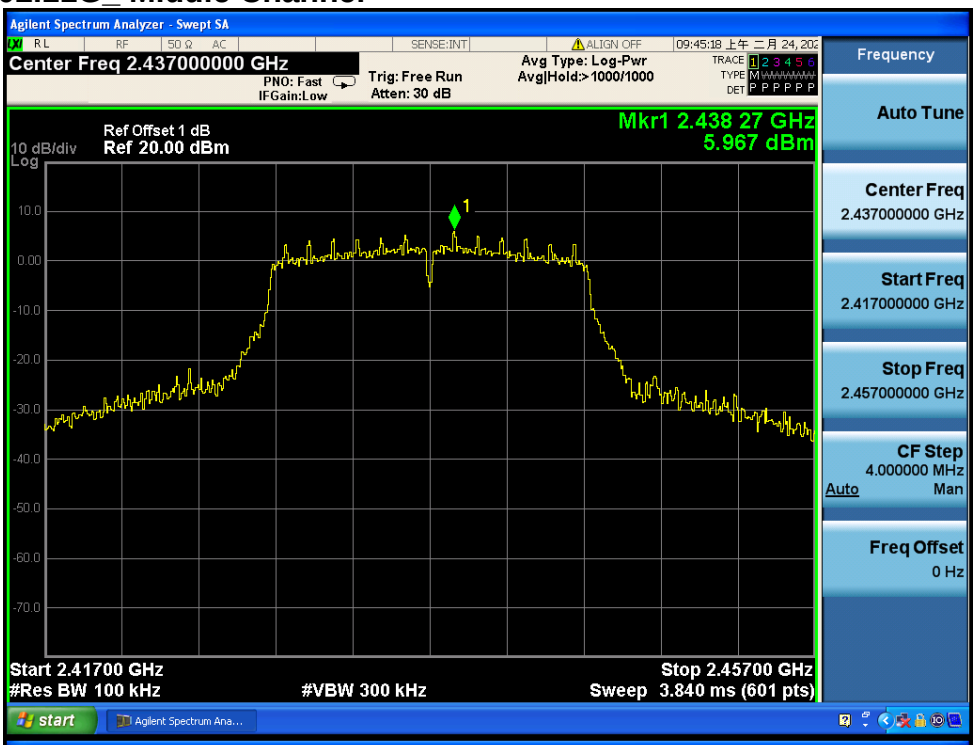
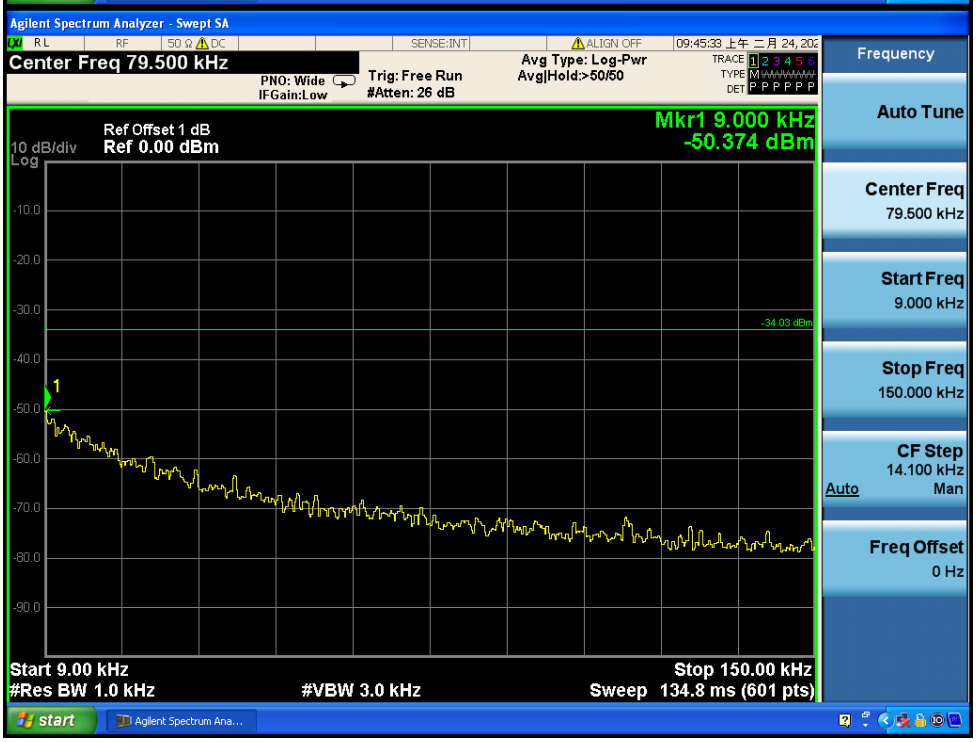
4.8.1.1.5 802.11G_ Middle Channel





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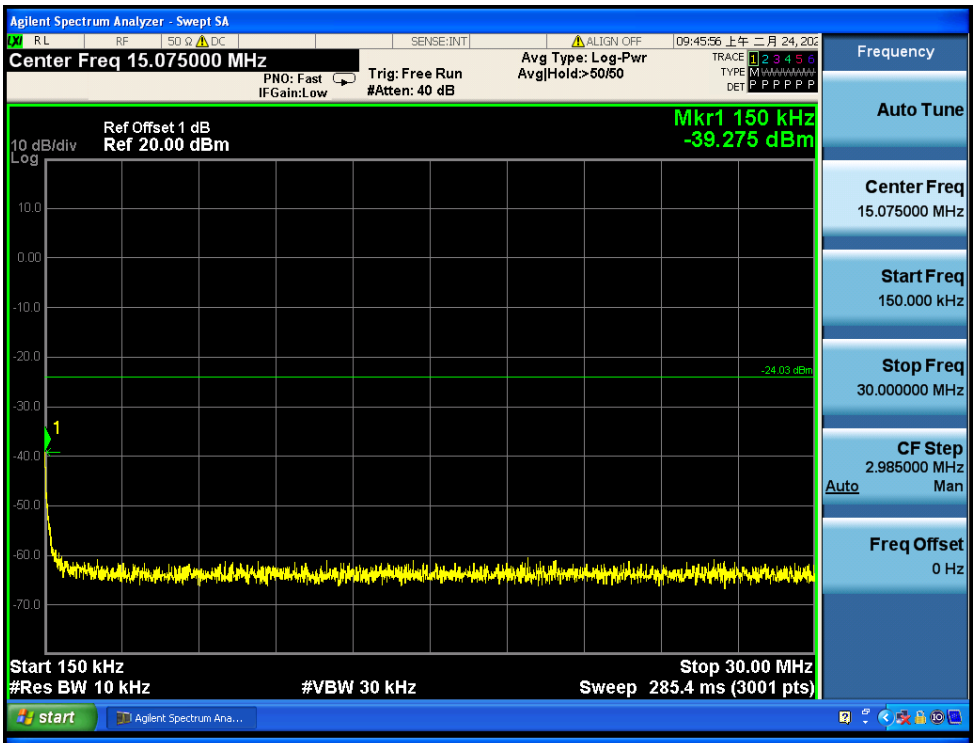

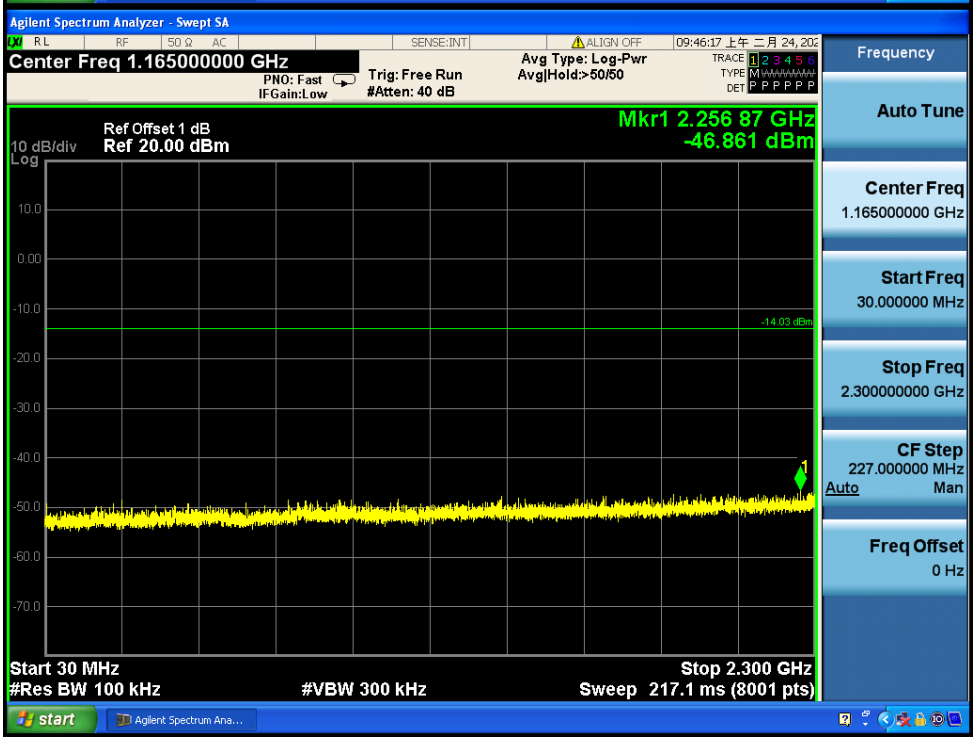

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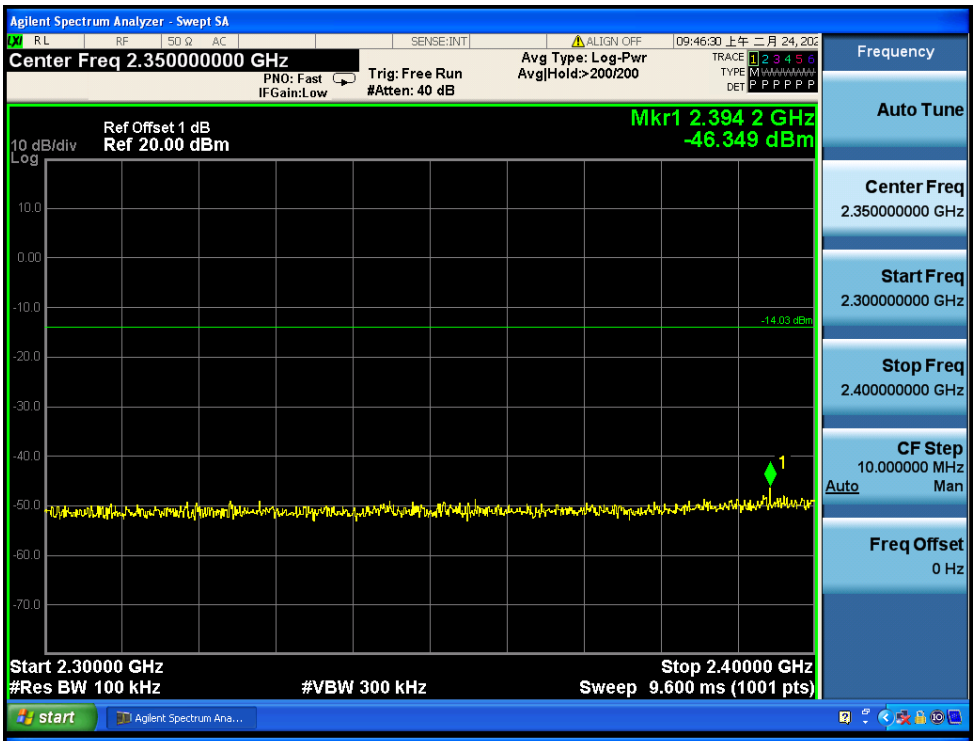

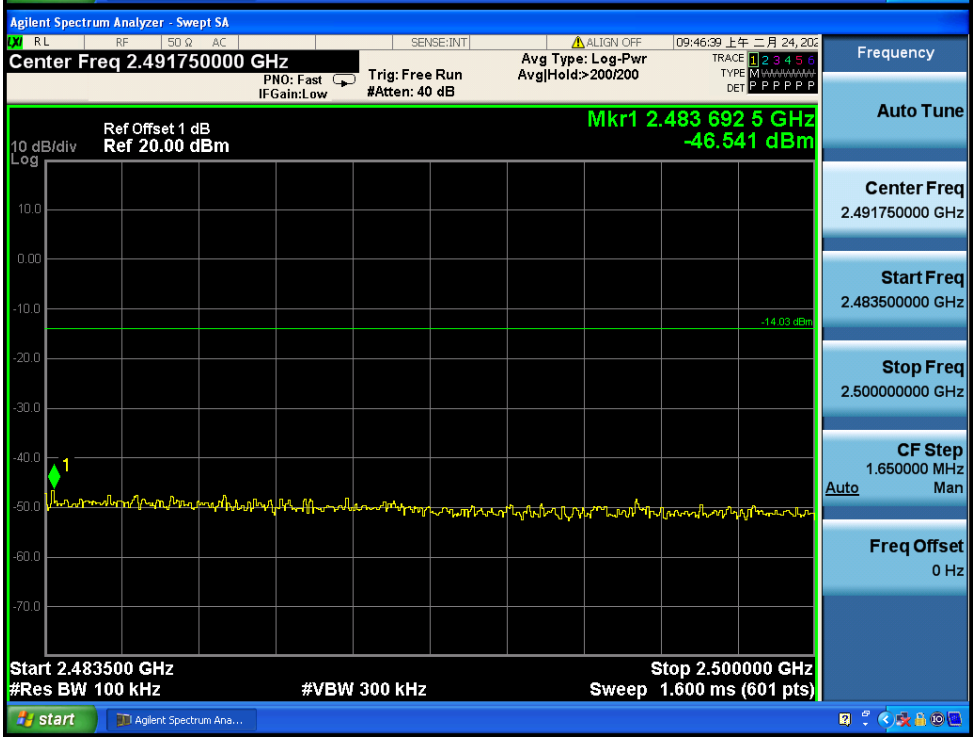

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4.8.1.1.6 802.11G_ Highest Channel

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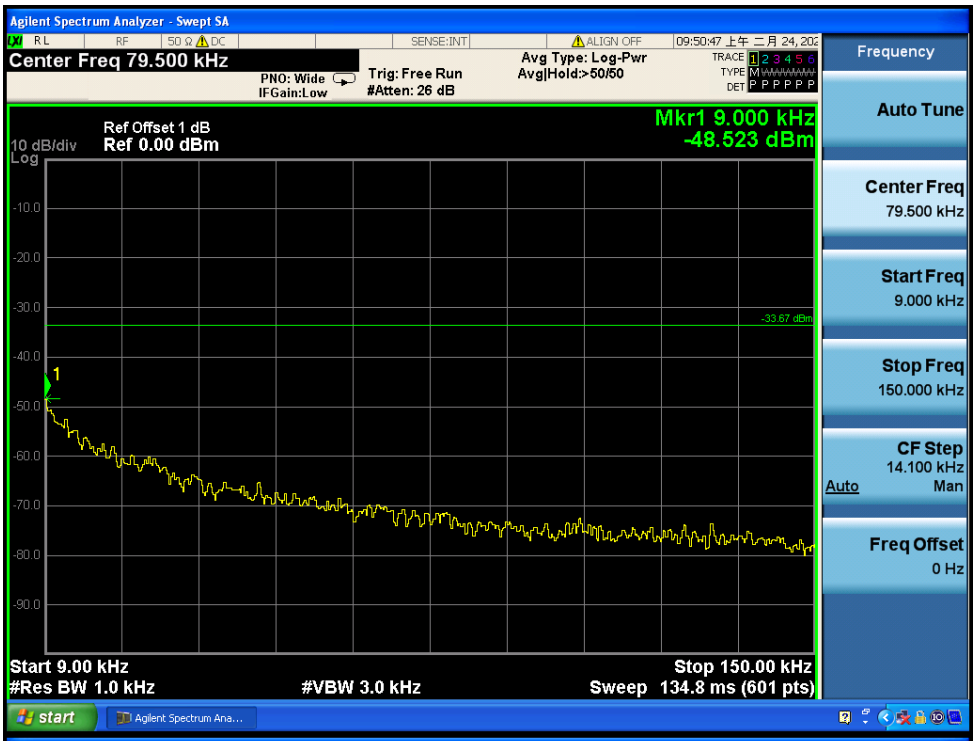

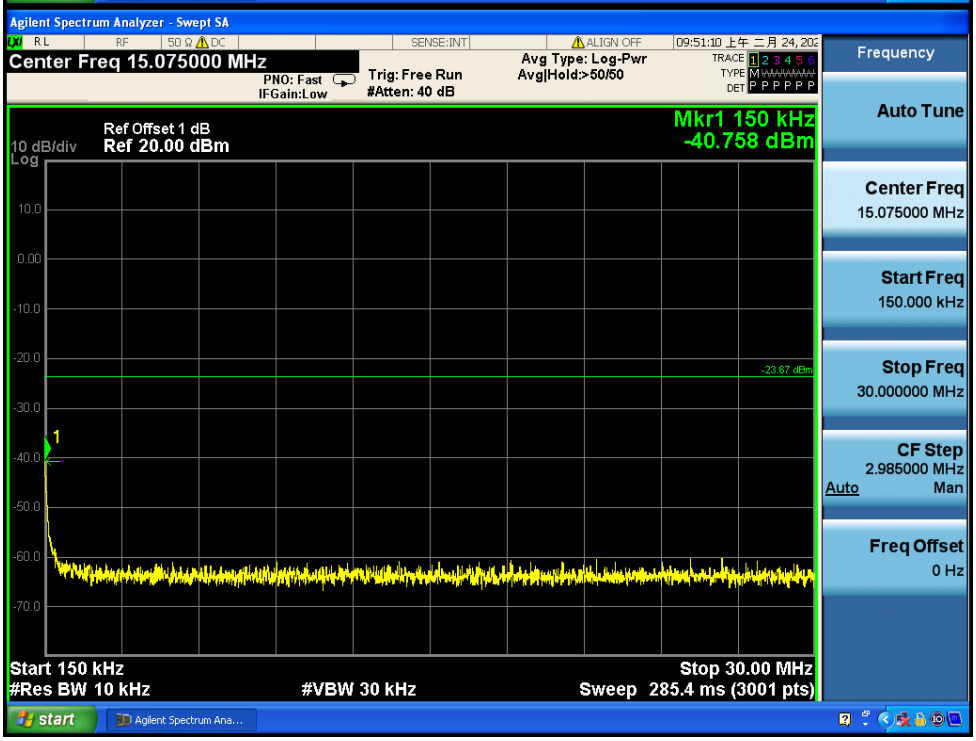

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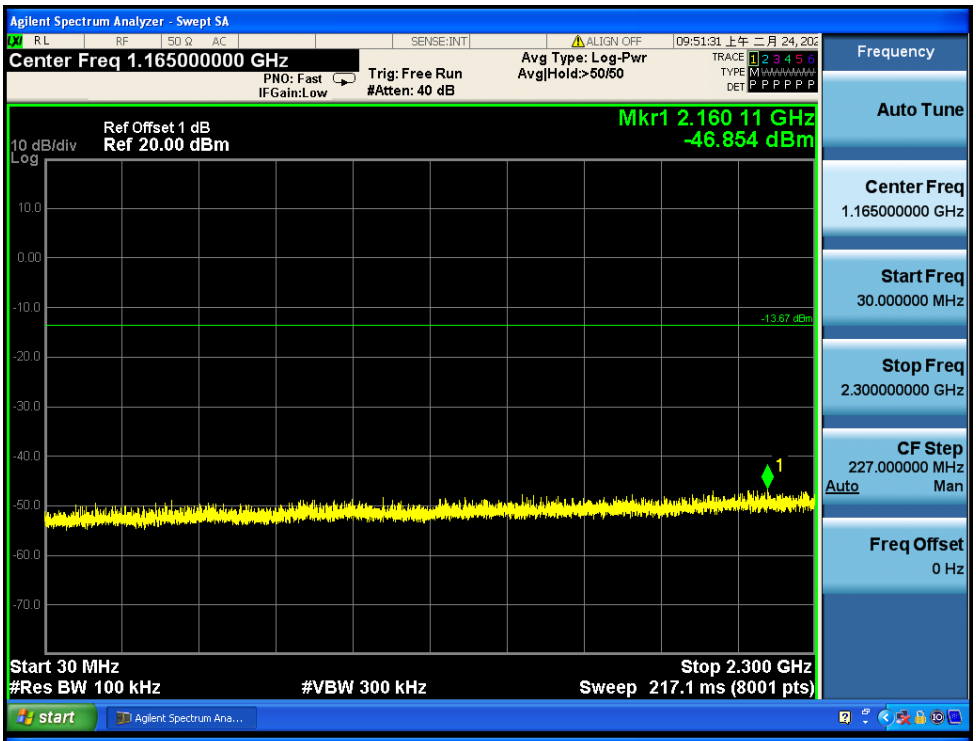

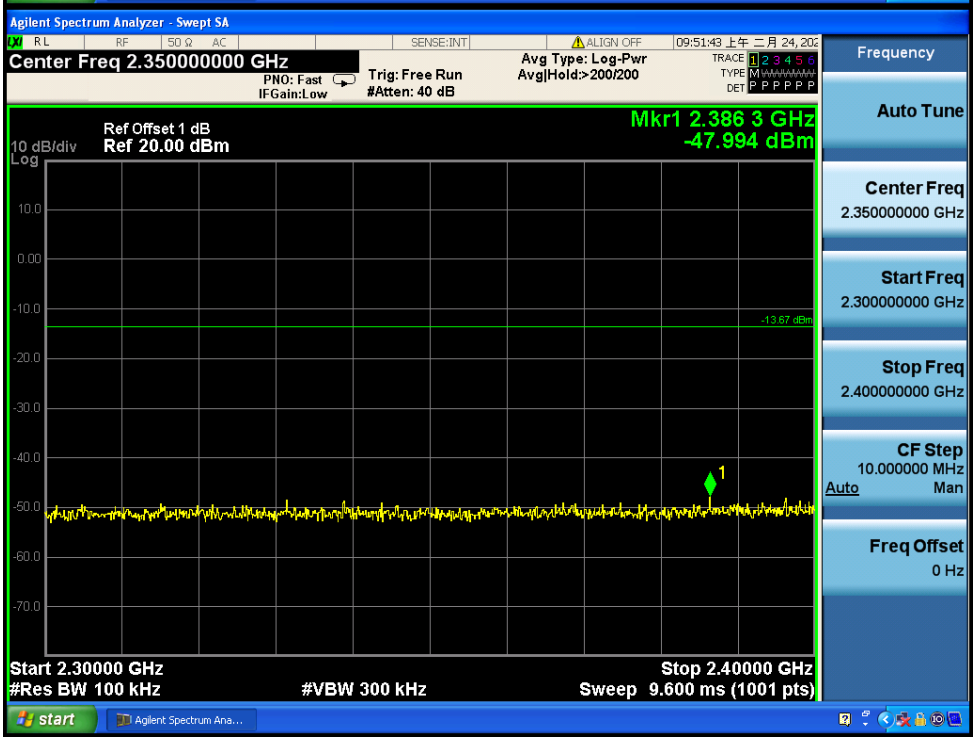

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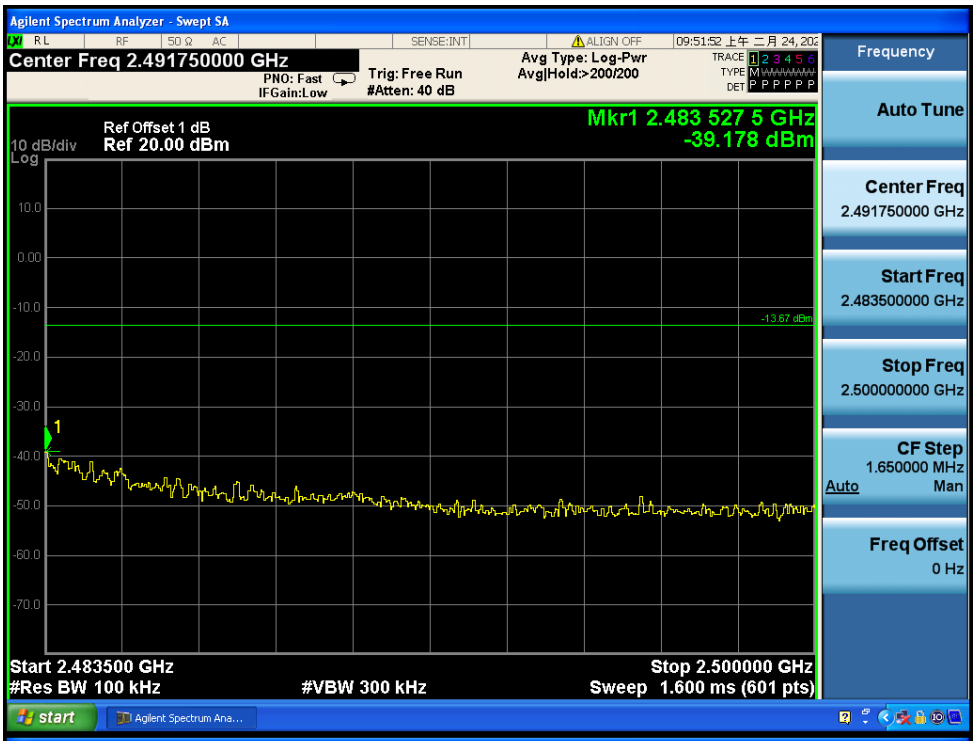

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4.8.1.1.7 802.11N20_Lowest Channel

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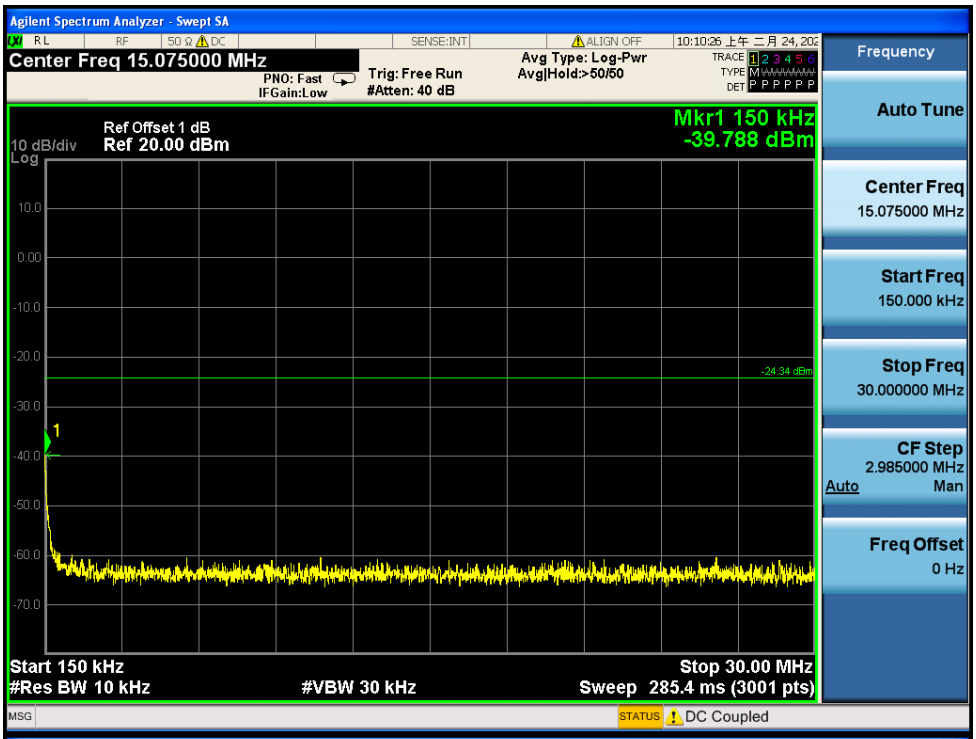

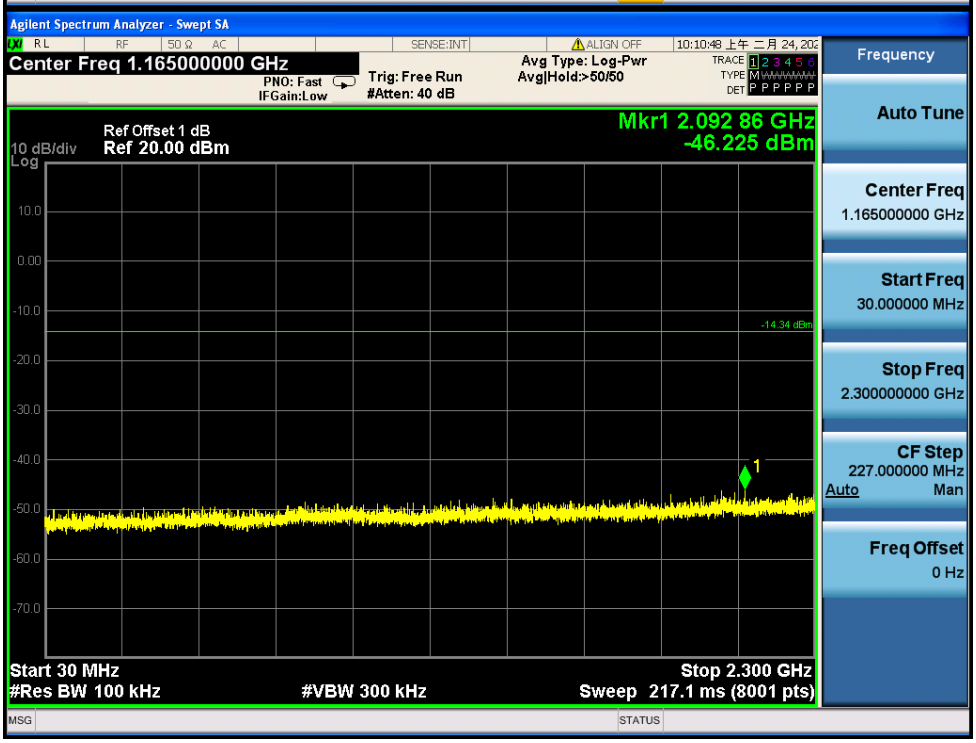

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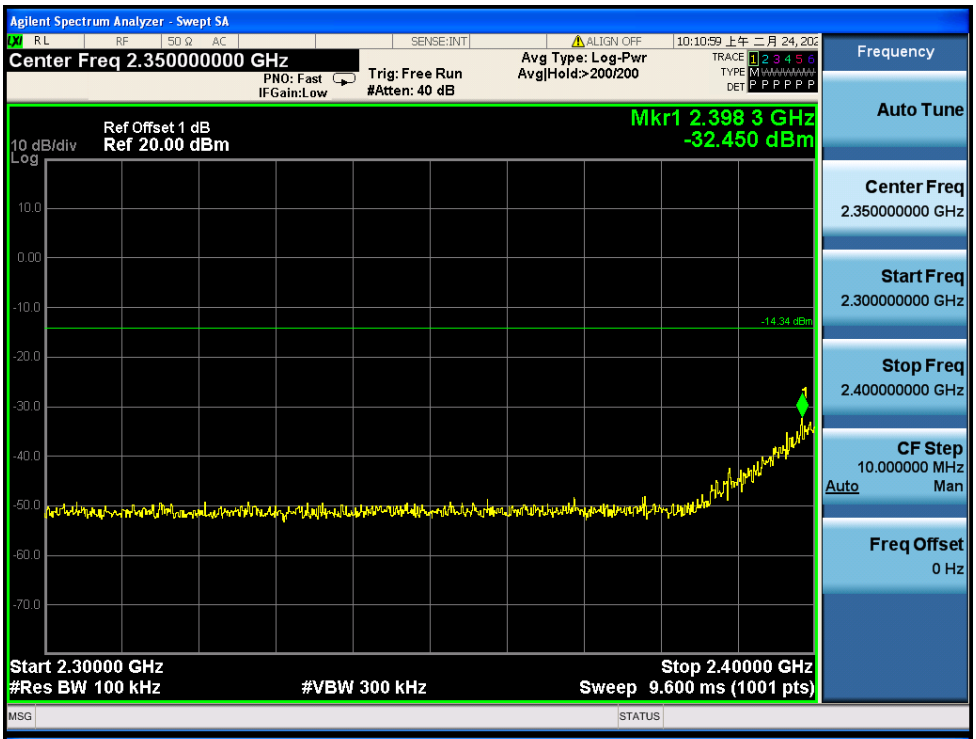

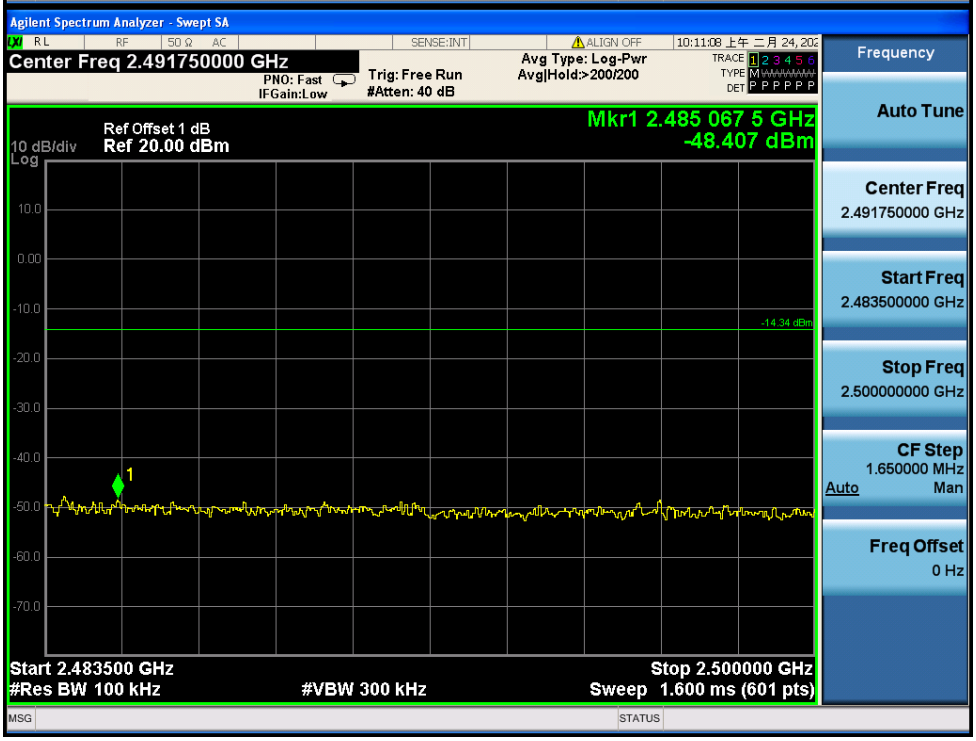

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4.8.1.1.8 802.11N20_ Middle Channel

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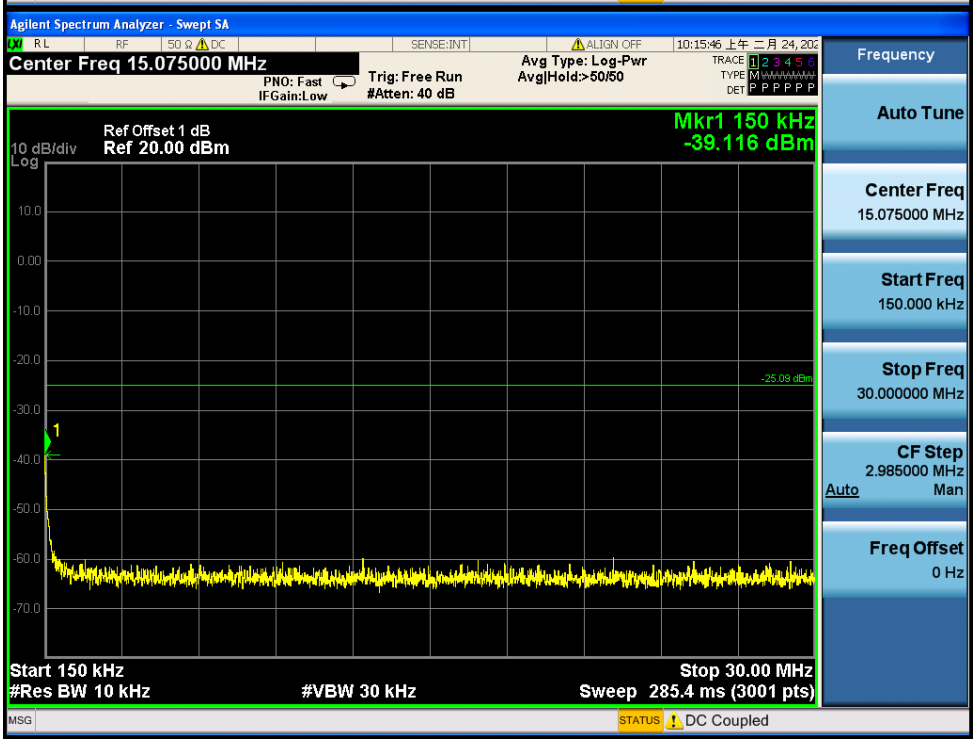

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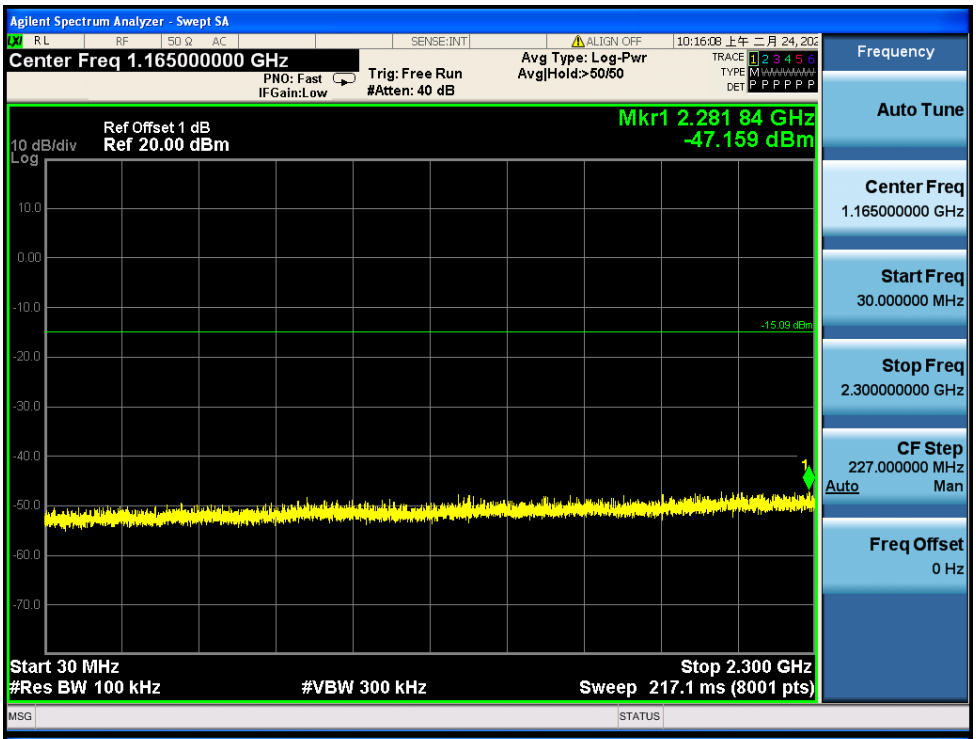

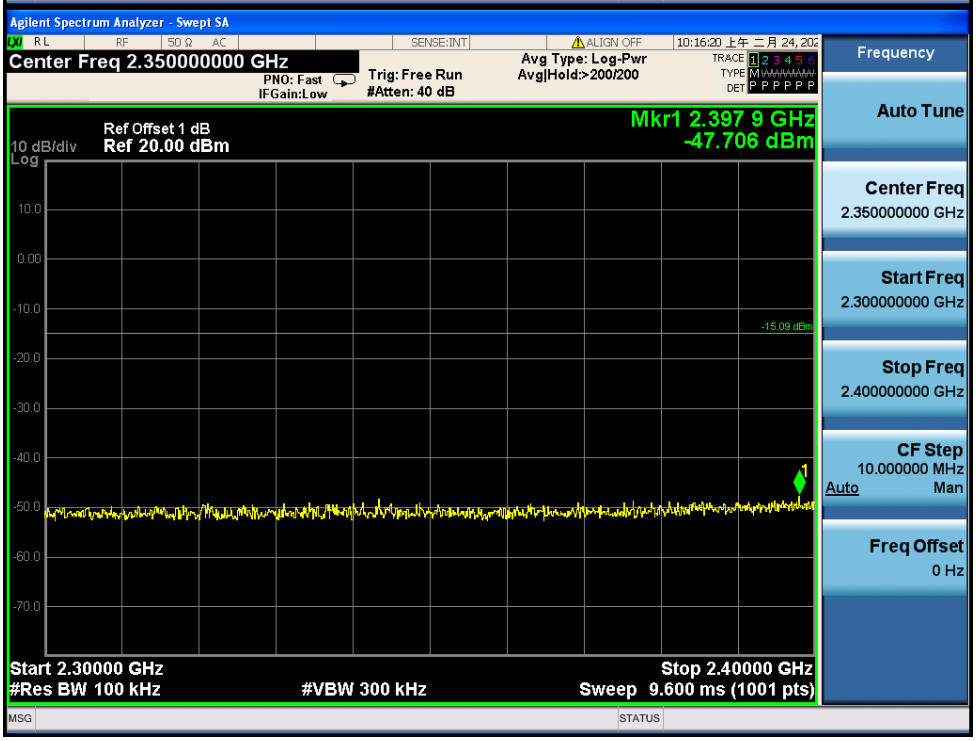

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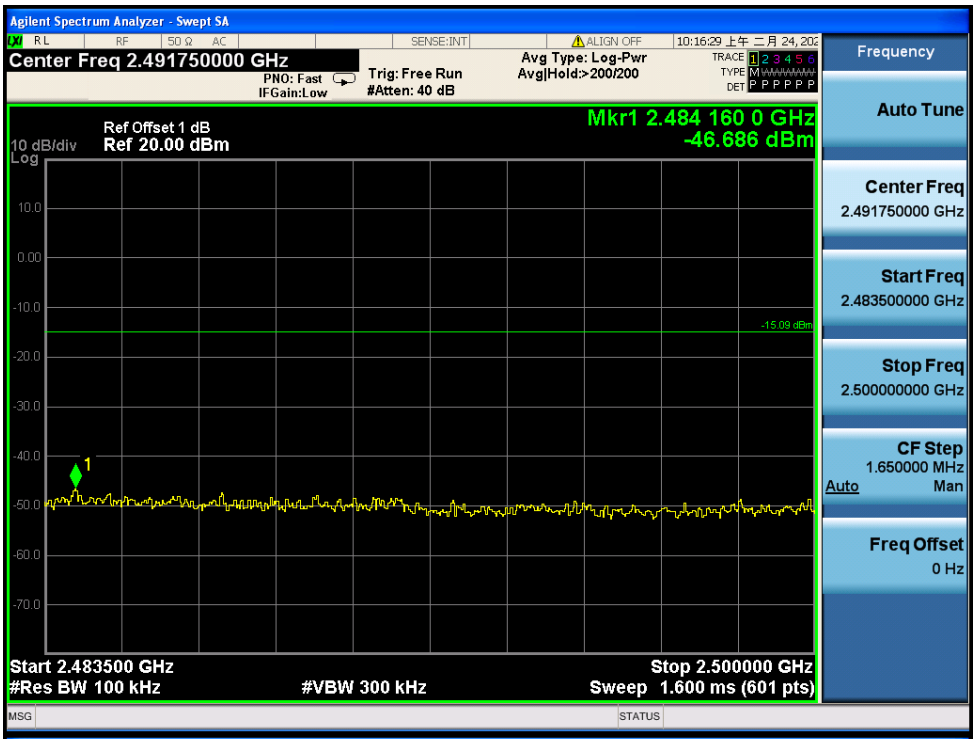

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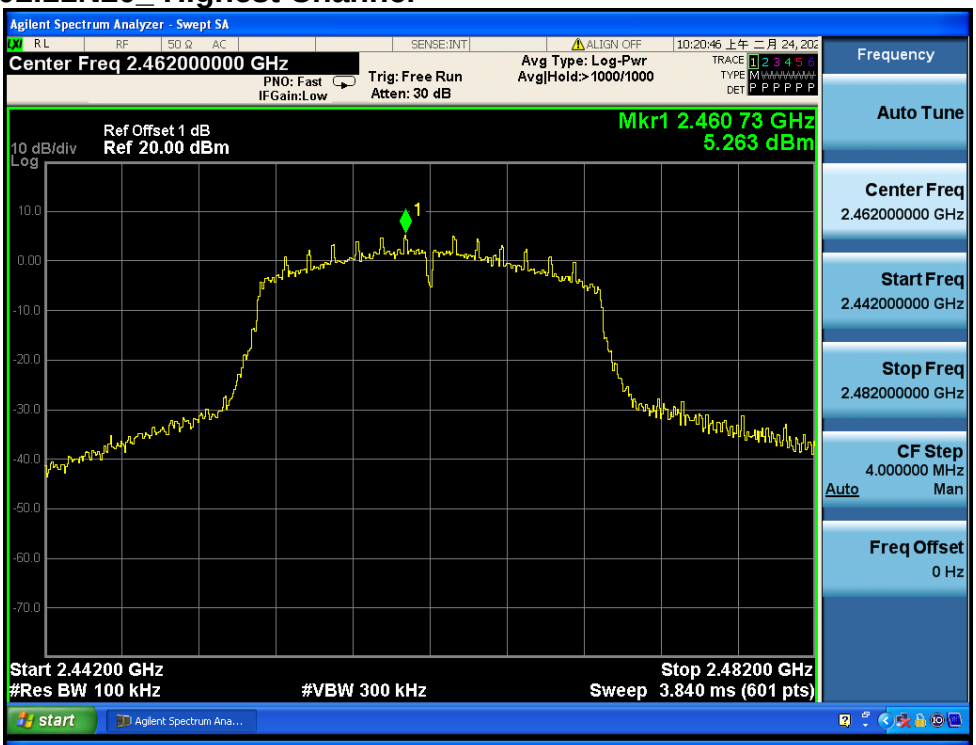
4.8.1.1.9 802.11N20_ Highest Channel



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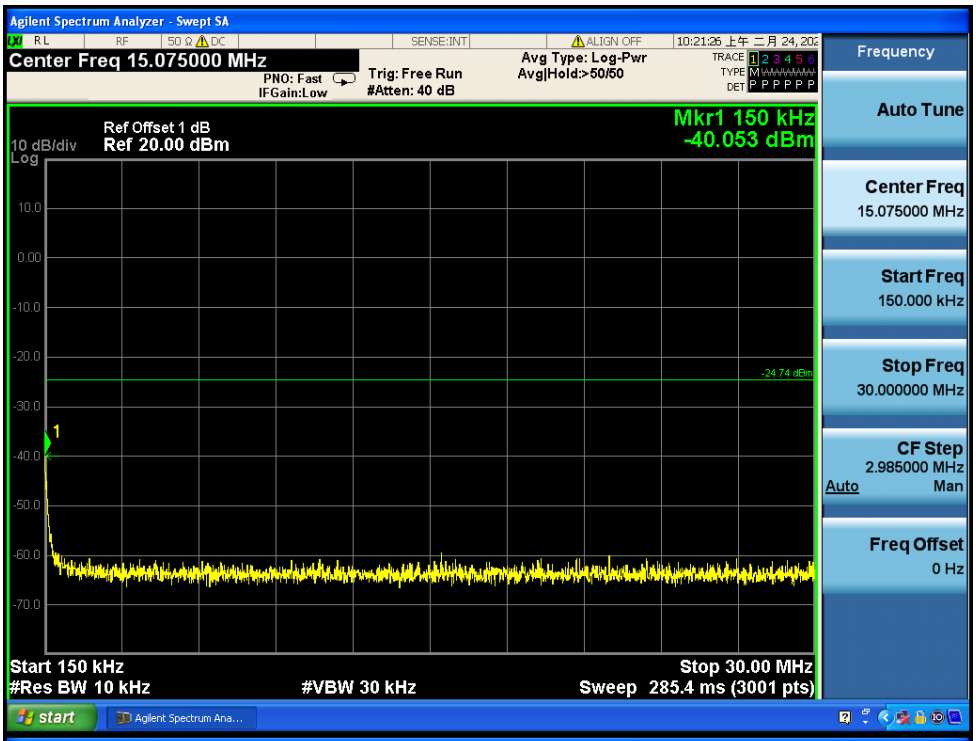

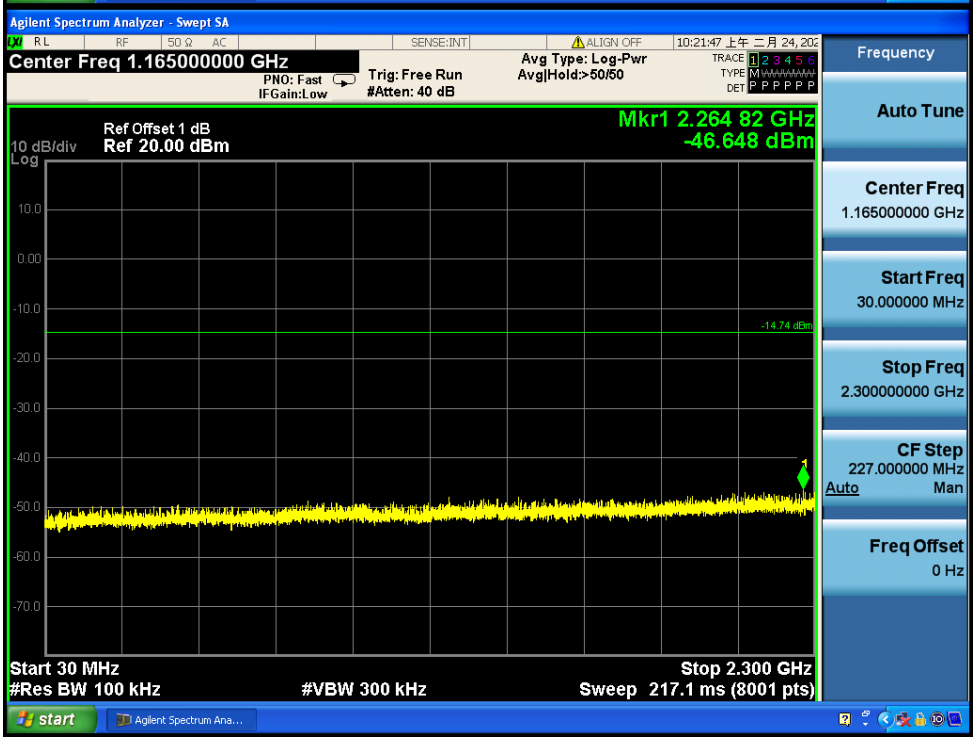

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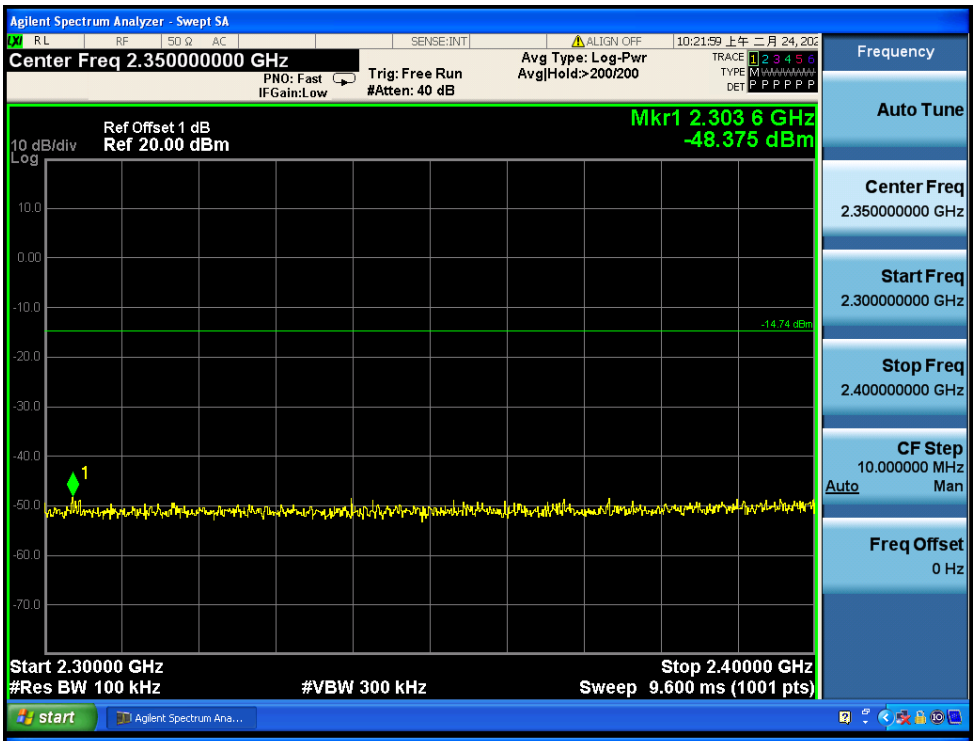

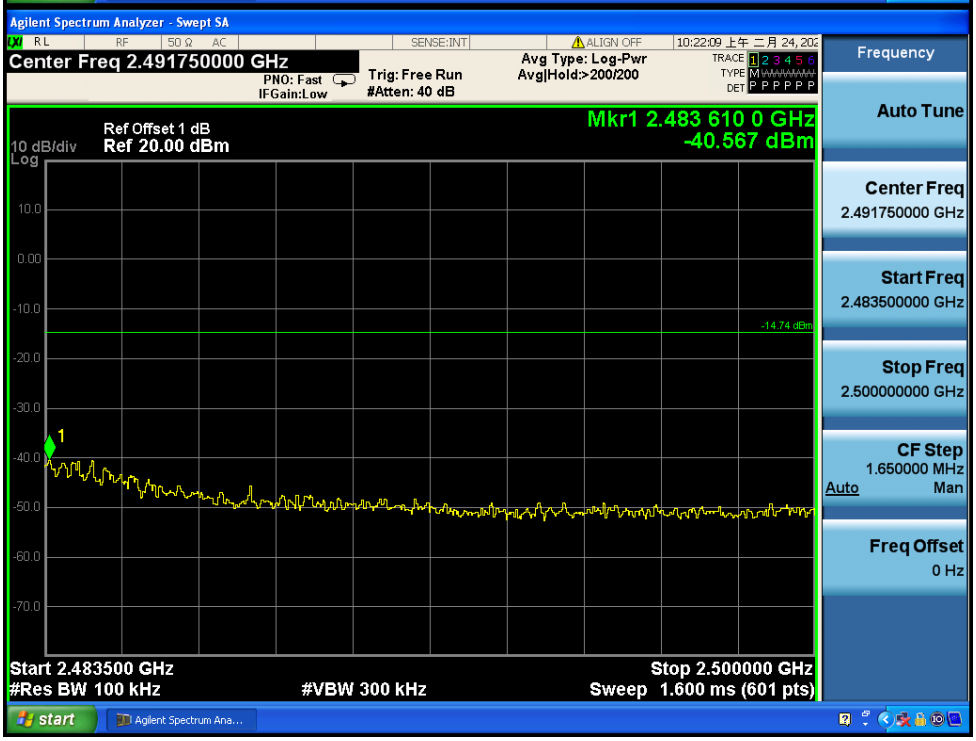

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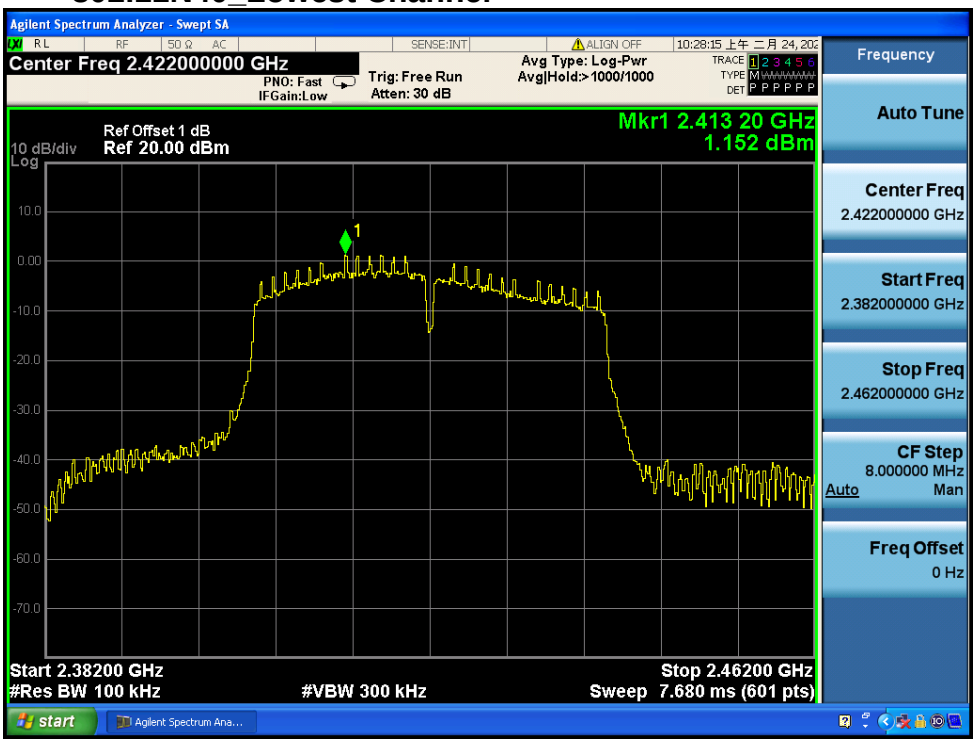
4.8.1.1.10 802.11N40_Lowest Channel



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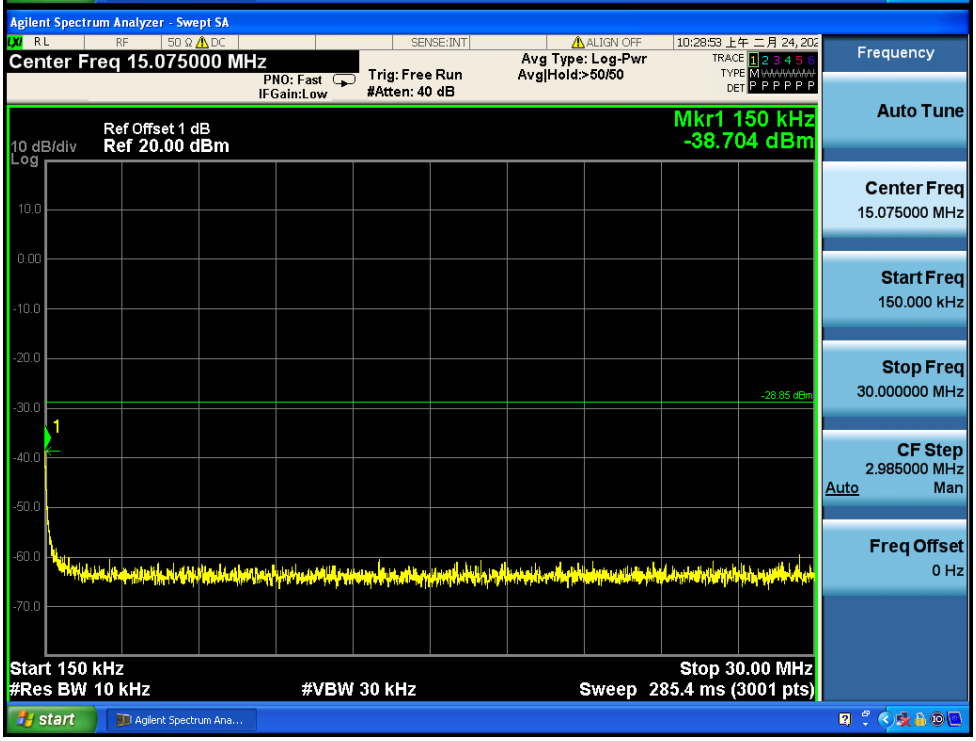

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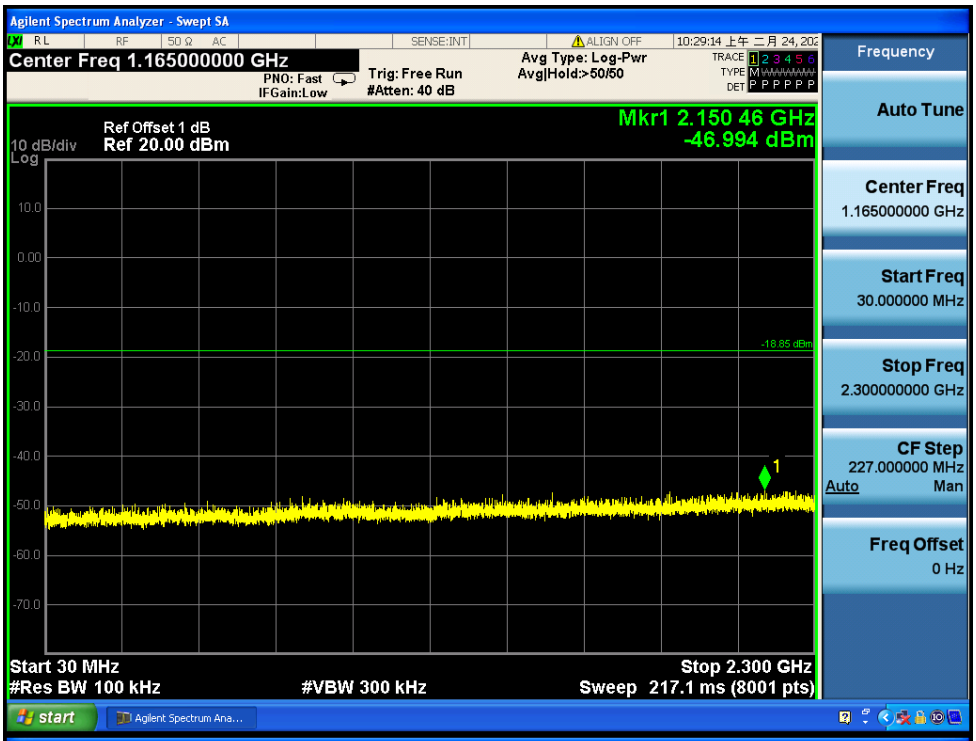

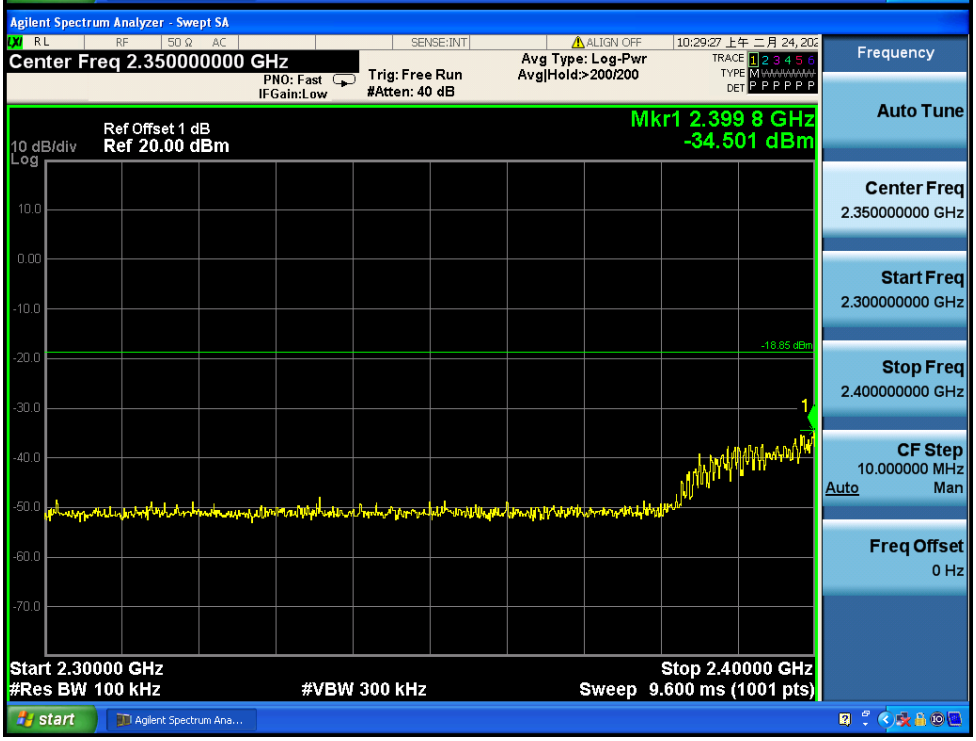

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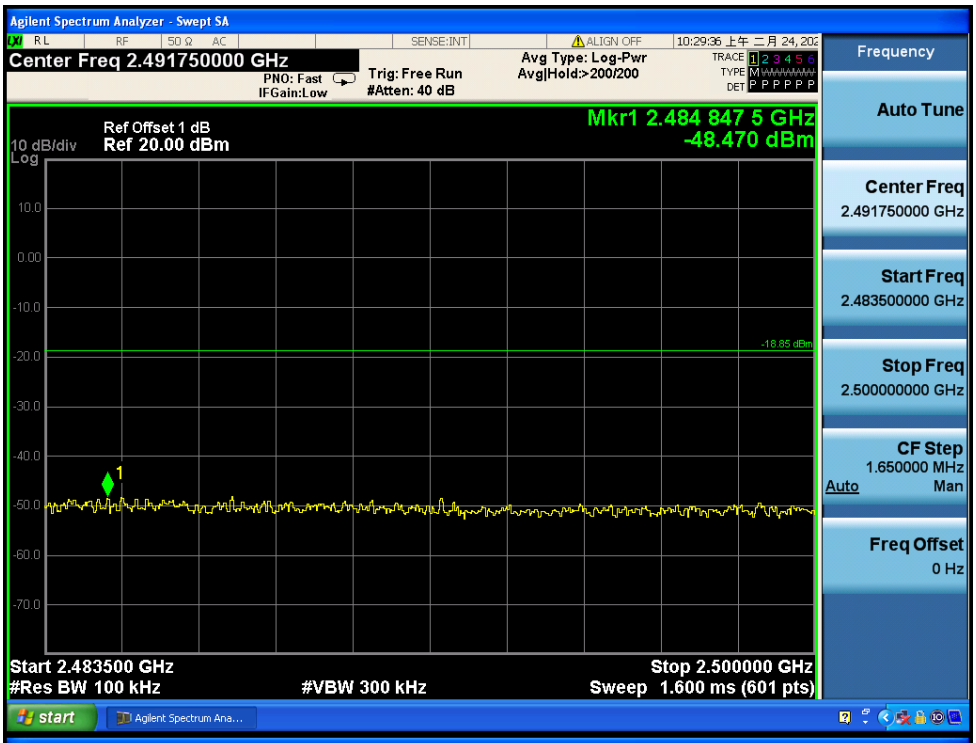

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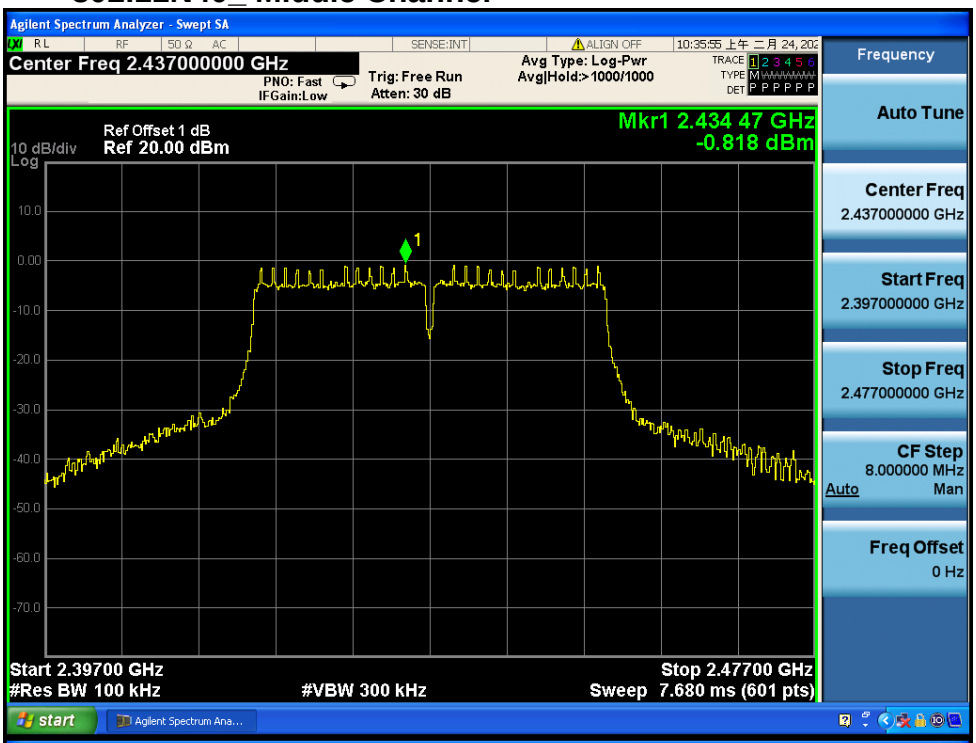
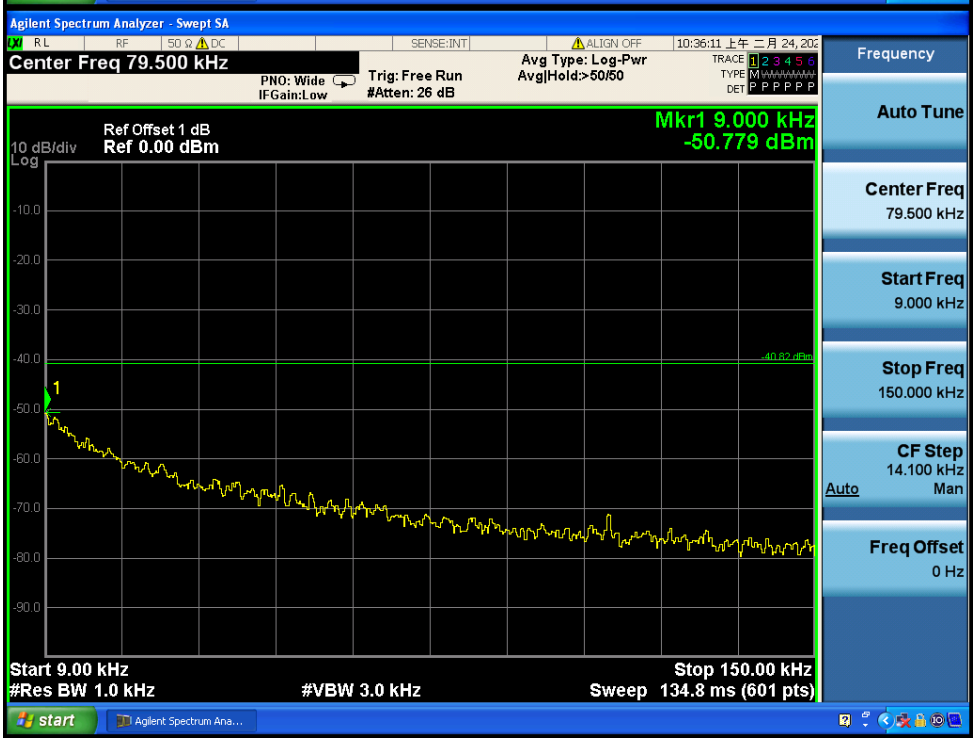
4.8.1.1.11 802.11N40_ Middle Channel





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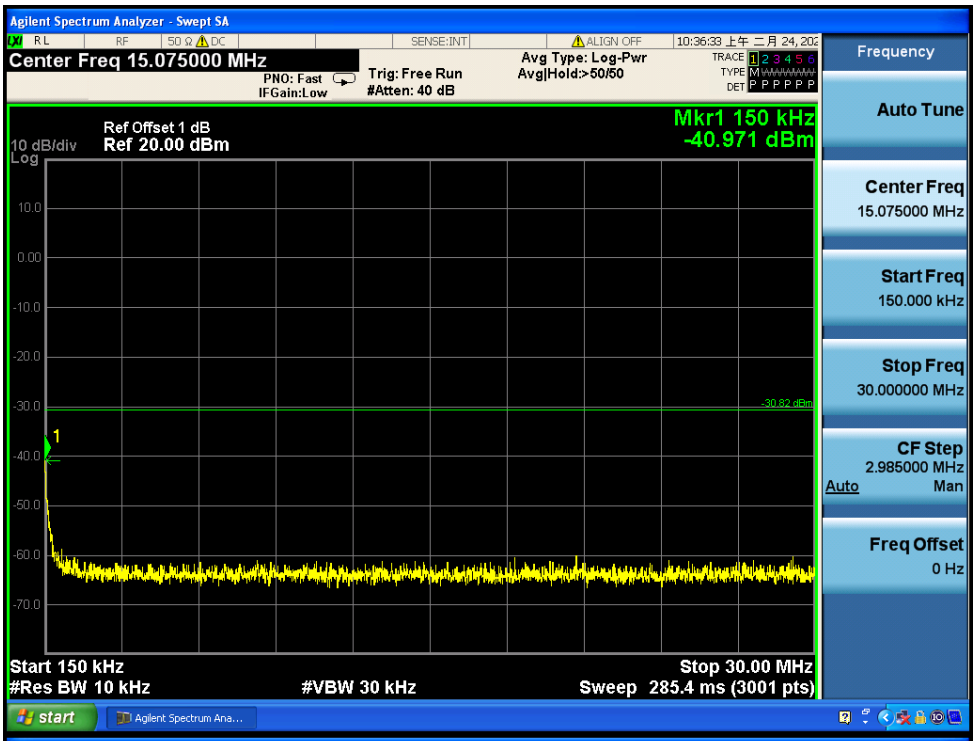

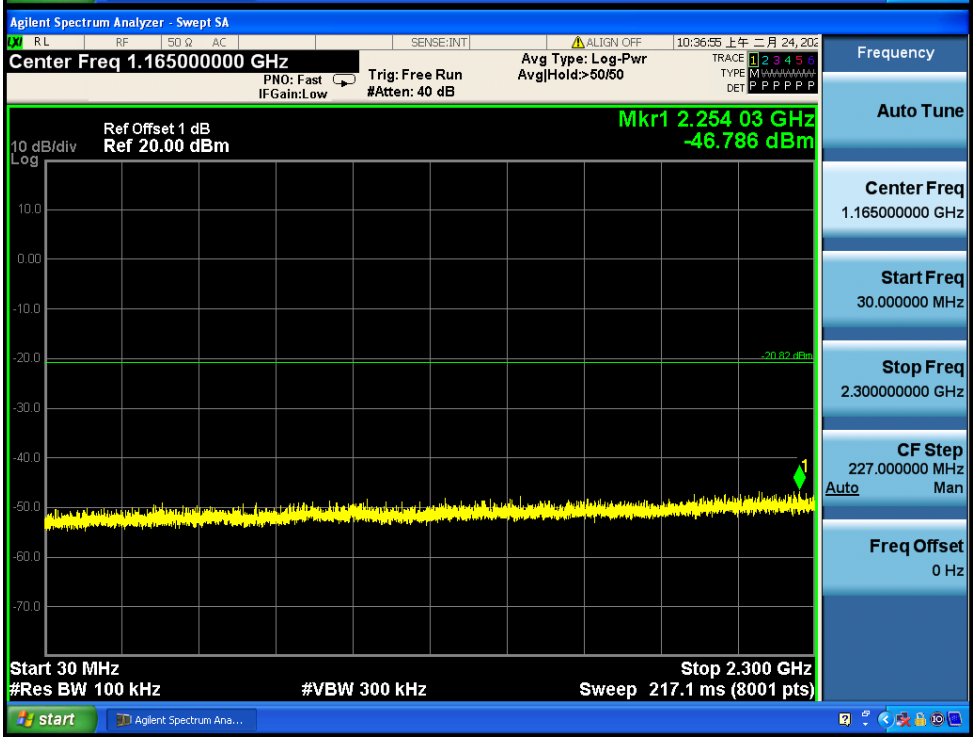

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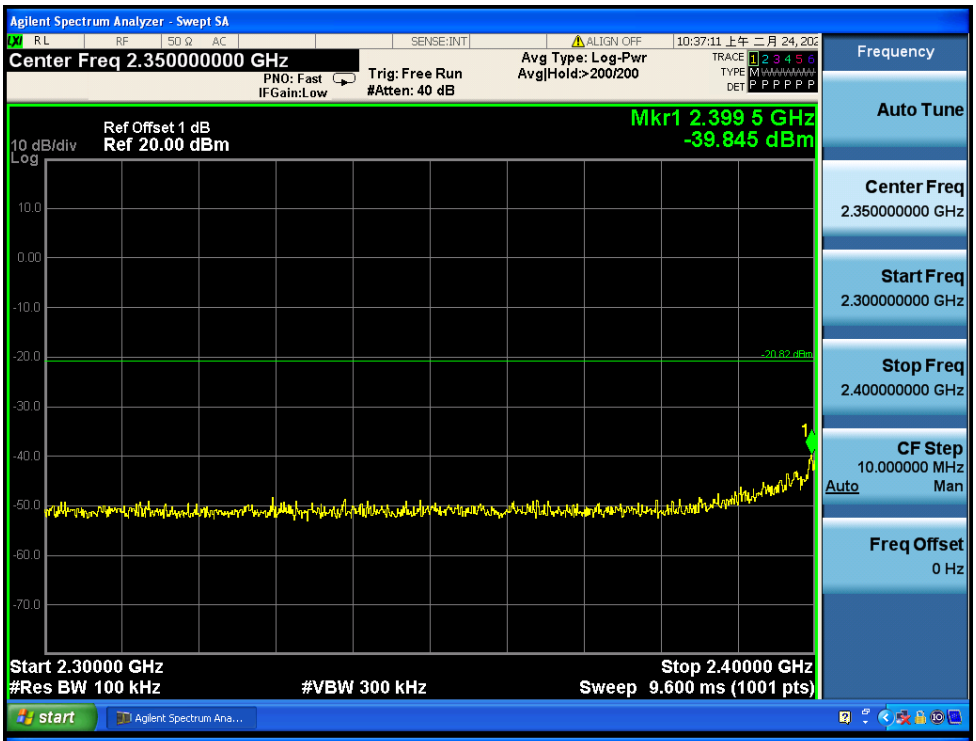

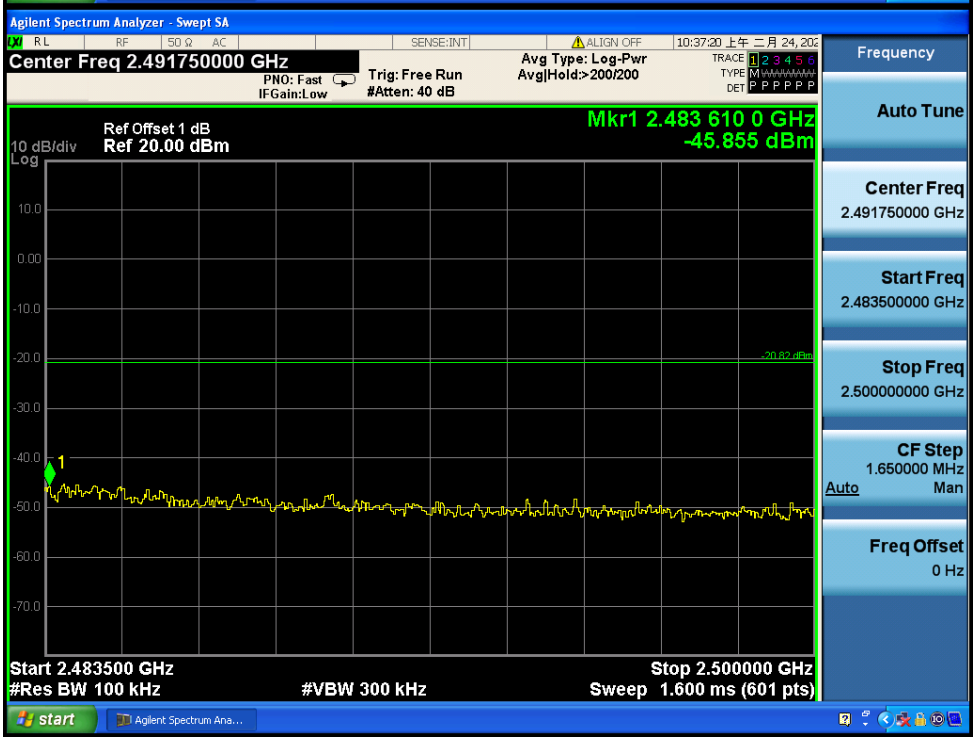

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4.8.1.1.12 802.11N40_ Highest Channel

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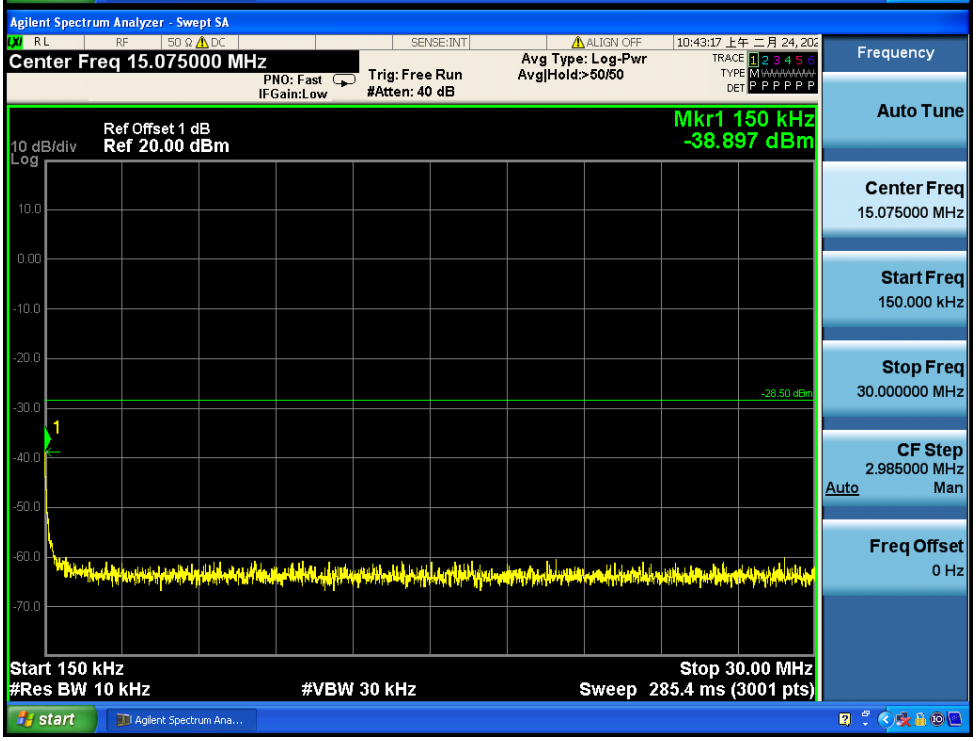

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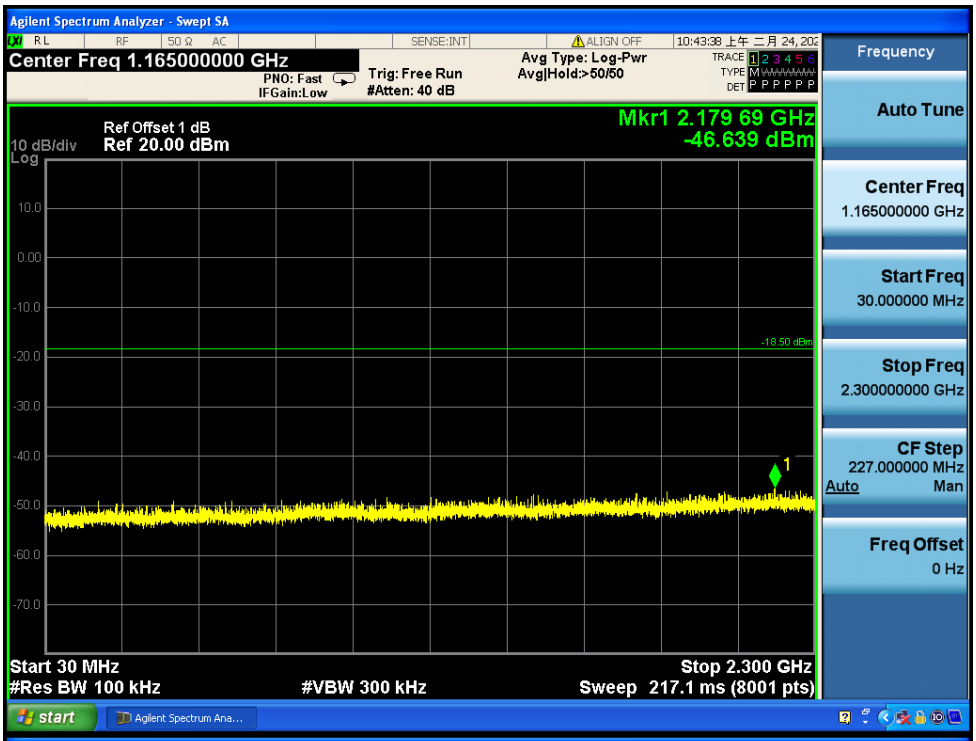

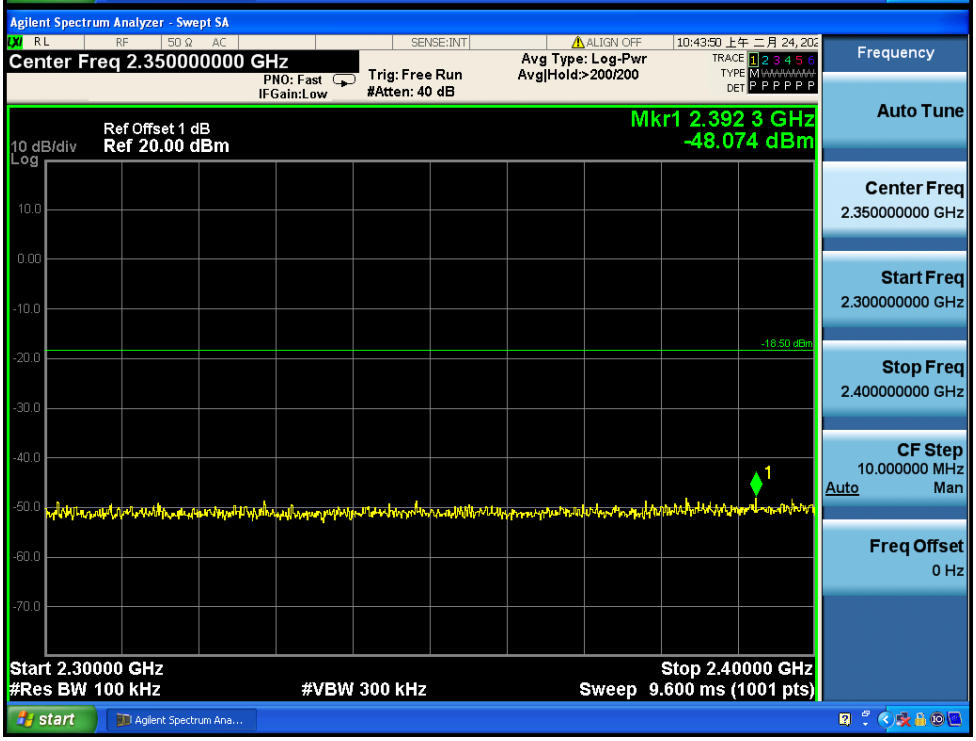

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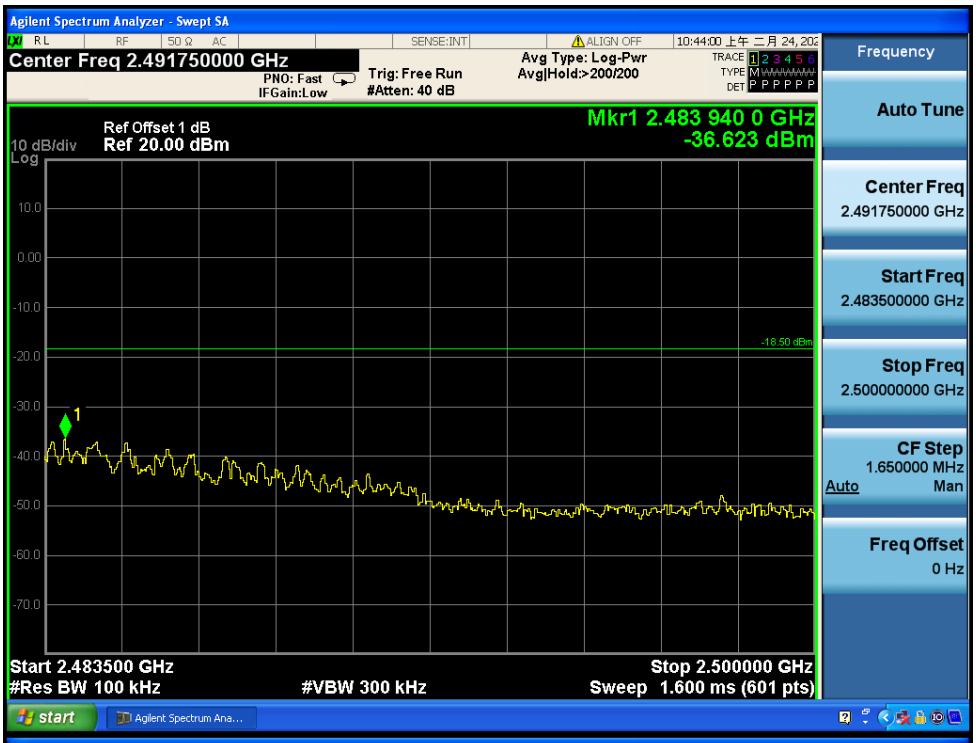

Remark:

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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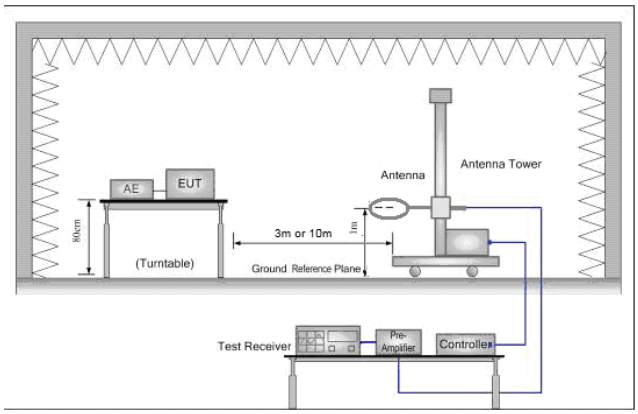

Figure 1. Below 30MHz

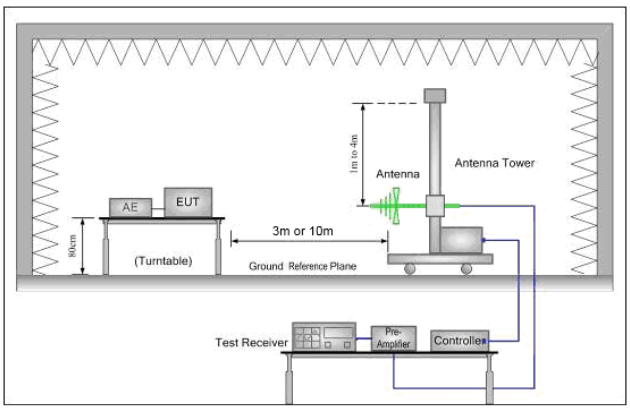

Figure 2. 30MHz to 1GHz

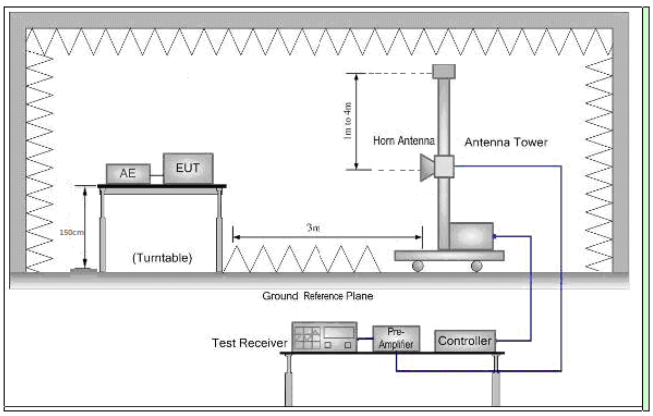

Figure 3. Above 1 GHz

Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees todetermine 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 groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, whichwas 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 thenthe 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 rotatabletable was turned from 0 degrees to 360 degrees to find the maximum reading. f. 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;

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	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 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 cycle) g. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth 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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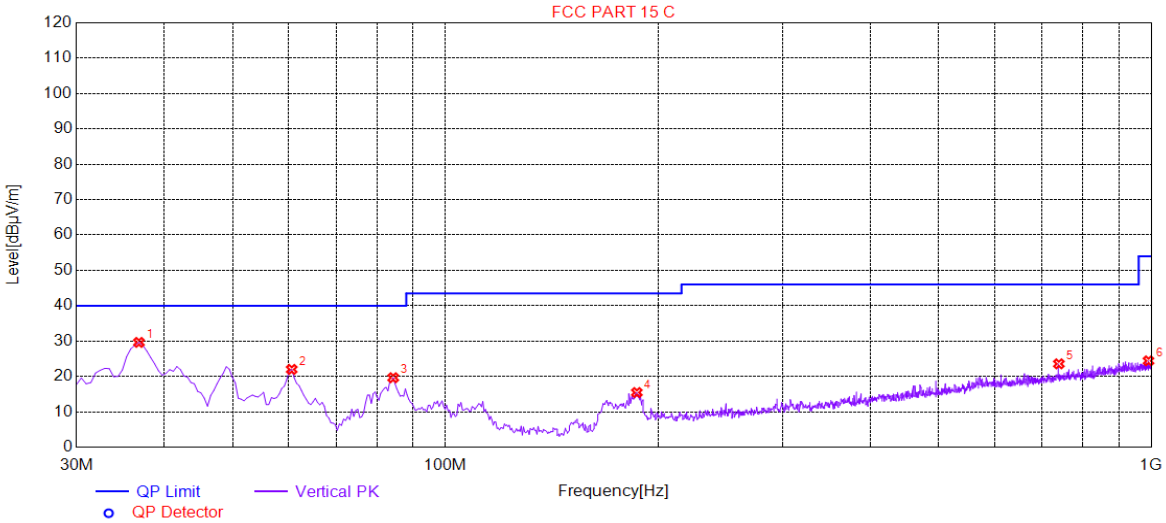
4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7934	29.63	-32.19	40.00	10.37	176	260	Vertical
2	60.5703	21.99	-31.79	40.00	18.01	259	22	Vertical
3	84.3472	19.64	-34.79	40.00	20.36	298	260	Vertical
4	186.7334	15.46	-32.22	43.50	28.04	264	173	Vertical
5	739.9100	23.57	-17.70	46.00	22.43	284	285	Vertical
6	991.2656	24.41	-13.97	54.00	29.59	277	242	Vertical

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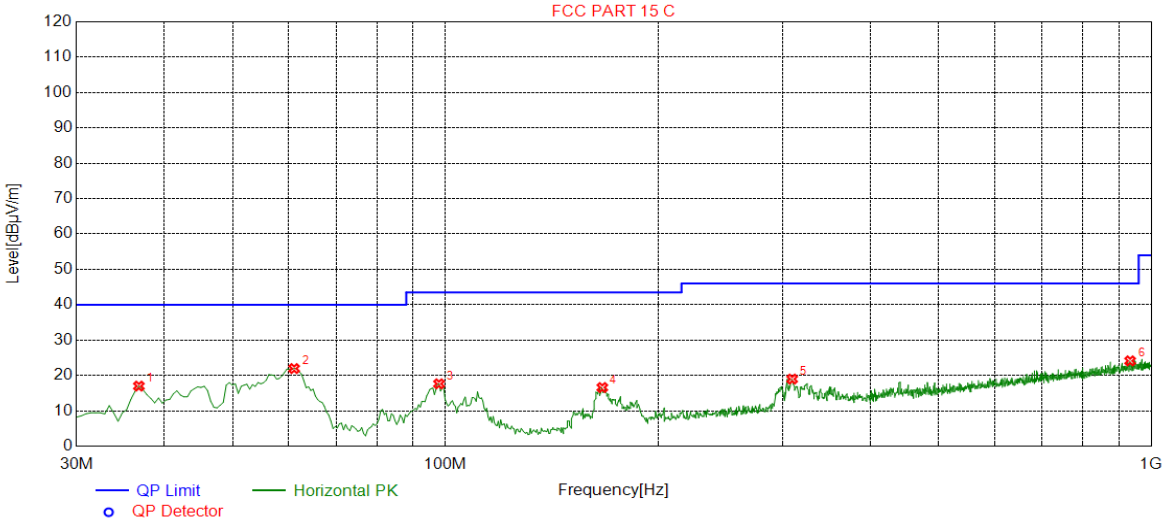
4.9.1.2 Charge + Transmitting, Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7934	16.99	-32.19	40.00	23.01	106	141	Horizontal
2	61.0555	21.95	-31.91	40.00	18.05	147	150	Horizontal
3	97.9340	17.64	-32.04	43.50	25.86	101	254	Horizontal
4	166.8384	16.59	-33.83	43.50	26.91	221	263	Horizontal
5	309.9850	18.98	-27.56	46.00	27.02	239	257	Horizontal
6	933.5218	24.12	-14.72	46.00	21.88	110	344	Horizontal

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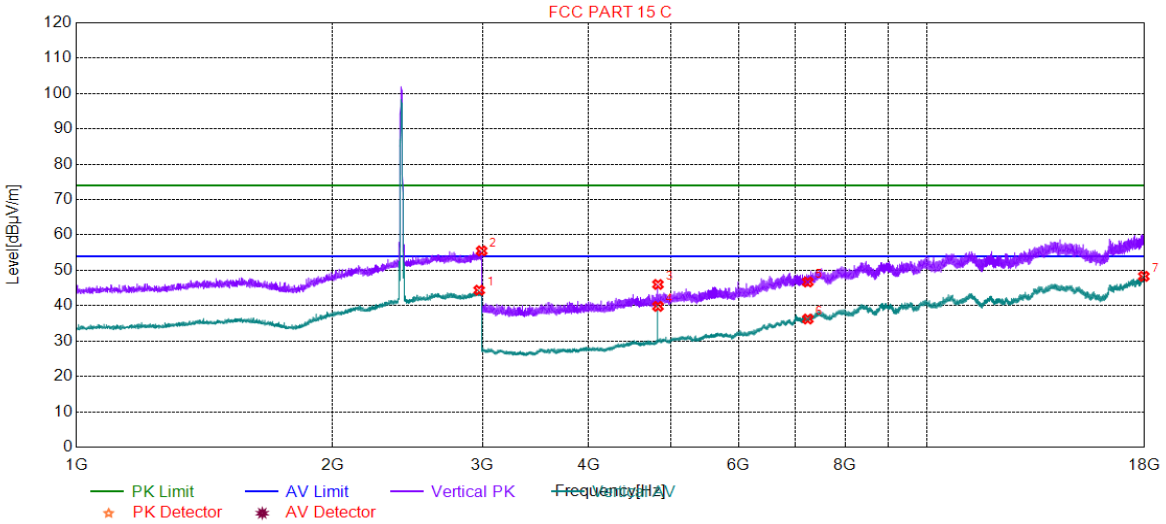
4.9.2 Transmitter emission above 1GHz

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	2973.9935	44.39	9.57	54.00	9.61	232	31	Vertical
2	2993.9985	55.50	9.48	74.00	18.50	285	131	Vertical
3	4824.0000	46.02	-18.21	74.00	27.98	234	333	Vertical
4	4824.0000	39.81	-18.21	54.00	14.19	262	333	Vertical
5	7236.0000	46.71	-9.99	74.00	27.29	197	142	Vertical
6	7236.0000	36.24	-9.99	54.00	17.76	152	300	Vertical
7	17961.4981	48.31	1.71	54.00	5.69	180	28	Vertical

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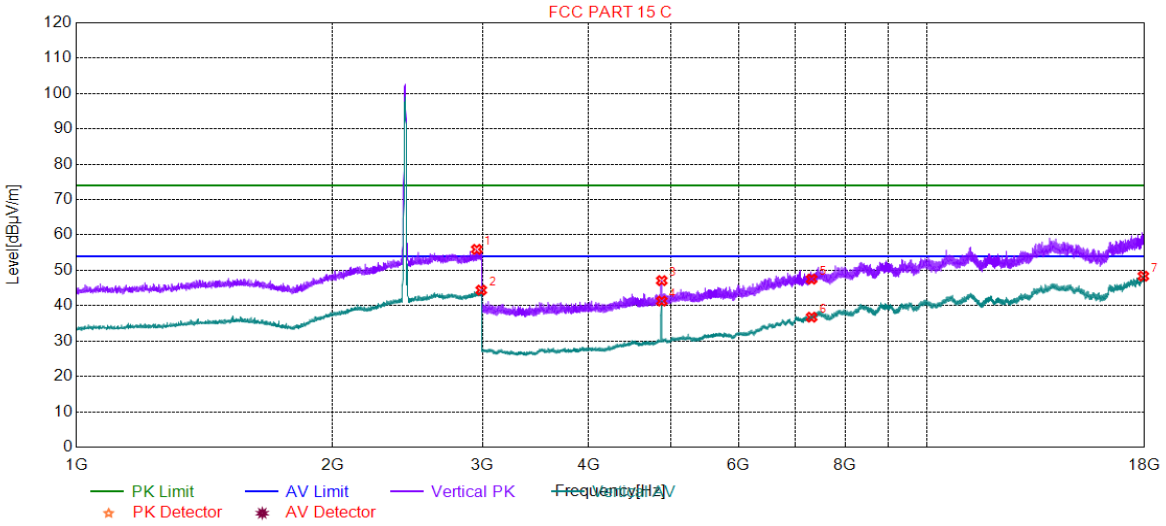
4.9.2.1.2 802.11B_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.4886	55.93	9.66	74.00	18.07	279	359	Vertical
2	2990.9977	44.41	9.49	54.00	9.59	192	299	Vertical
3	4874.0000	47.09	-17.99	74.00	26.91	190	53	Vertical
4	4874.0000	41.32	-17.99	54.00	12.68	159	163	Vertical
5	7311.0000	47.52	-9.74	74.00	26.48	248	69	Vertical
6	7311.0000	36.76	-9.74	54.00	17.24	274	18	Vertical
7	17938.9469	48.36	1.70	54.00	5.64	293	69	Vertical

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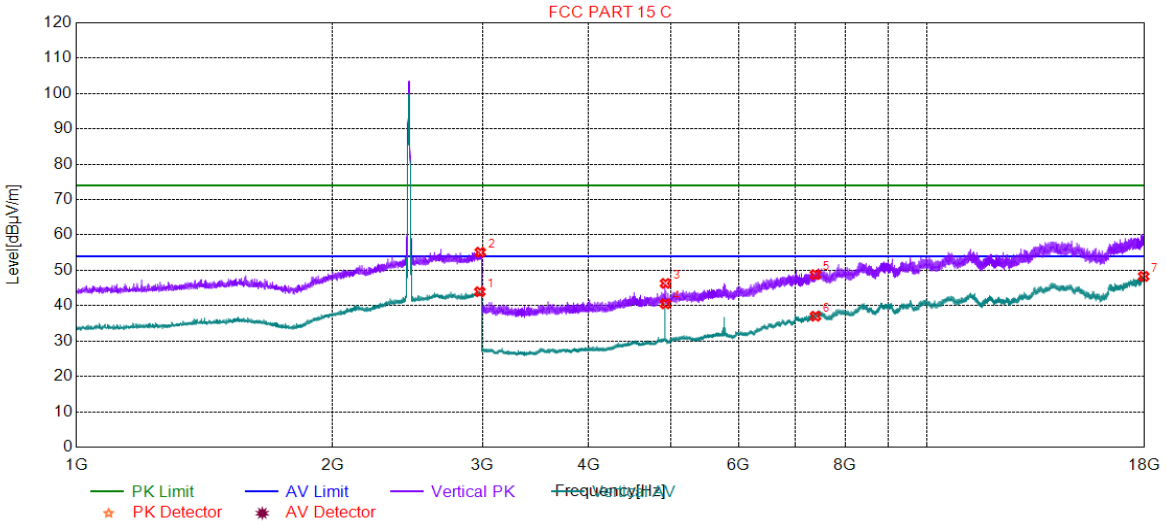
4.9.2.1.3 802.11B_ Highest Channel_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2978.9947	43.96	9.55	54.00	10.04	215	87	Vertical
2	2982.4956	55.13	9.53	74.00	18.87	294	18	Vertical
3	4924.0000	46.31	-17.72	74.00	27.69	191	195	Vertical
4	4924.0000	40.55	-17.72	54.00	13.45	228	195	Vertical
5	7386.0000	48.79	-9.55	74.00	25.21	212	208	Vertical
6	7386.0000	37.03	-9.55	54.00	16.97	282	23	Vertical
7	17951.5976	48.29	1.71	54.00	5.71	298	23	Vertical

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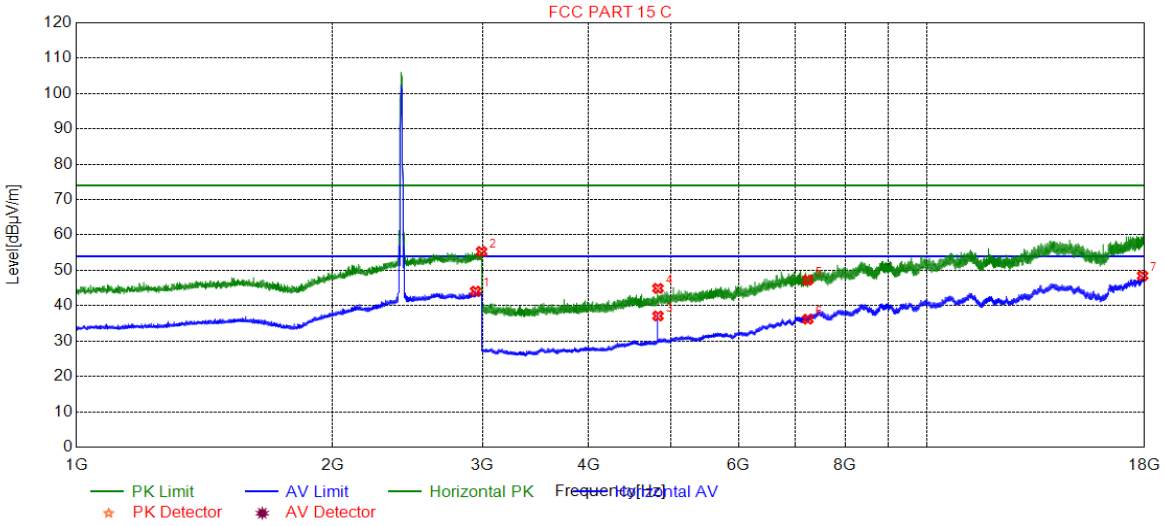
4.9.2.1.4 802.11B_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2945.4864	44.11	9.63	54.00	9.89	154	218	Horizontal
2	2993.4984	55.31	9.48	74.00	18.69	143	302	Horizontal
3	4824.0000	37.10	-18.21	54.00	16.90	218	207	Horizontal
4	4824.0000	44.91	-18.21	74.00	29.09	221	207	Horizontal
5	7236.0000	47.22	-9.99	74.00	26.78	177	138	Horizontal
6	7236.0000	36.21	-9.99	54.00	17.79	197	138	Horizontal
7	17903.1952	48.47	1.69	54.00	5.53	219	81	Horizontal

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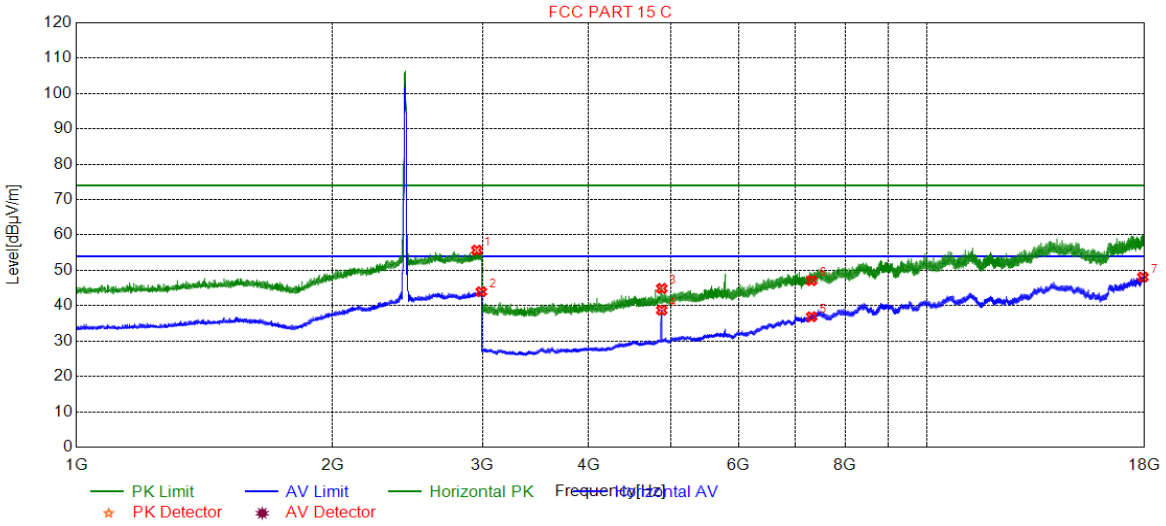
4.9.2.1.5 802.11B_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.9887	55.71	9.66	74.00	18.29	196	116	Horizontal
2	2990.9977	43.96	9.49	54.00	10.04	217	116	Horizontal
3	4874.0000	44.89	-17.99	74.00	29.11	213	22	Horizontal
4	4874.0000	38.73	-17.99	54.00	15.27	109	215	Horizontal
5	7311.0000	36.88	-9.74	54.00	17.12	193	16	Horizontal
6	7311.0000	47.10	-9.74	74.00	26.90	100	226	Horizontal
7	17915.2958	48.11	1.69	54.00	5.89	185	226	Horizontal

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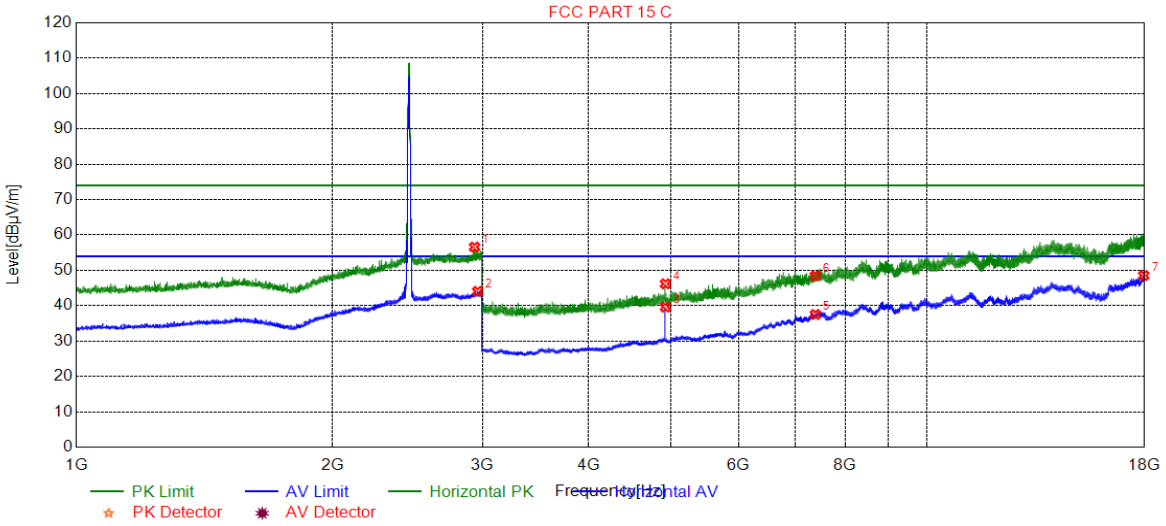
4.9.2.1.6 802.11B_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2936.9842	56.60	9.54	74.00	17.40	118	246	Horizontal
2	2961.9905	44.06	9.62	54.00	9.94	157	232	Horizontal
3	4924.0000	39.60	-17.72	54.00	14.40	117	28	Horizontal
4	4924.0000	46.20	-17.72	74.00	27.80	133	216	Horizontal
5	7386.0000	37.53	-9.55	54.00	16.47	130	34	Horizontal
6	7386.0000	48.43	-9.55	74.00	25.57	174	330	Horizontal
7	17955.9978	48.53	1.71	54.00	5.47	185	272	Horizontal

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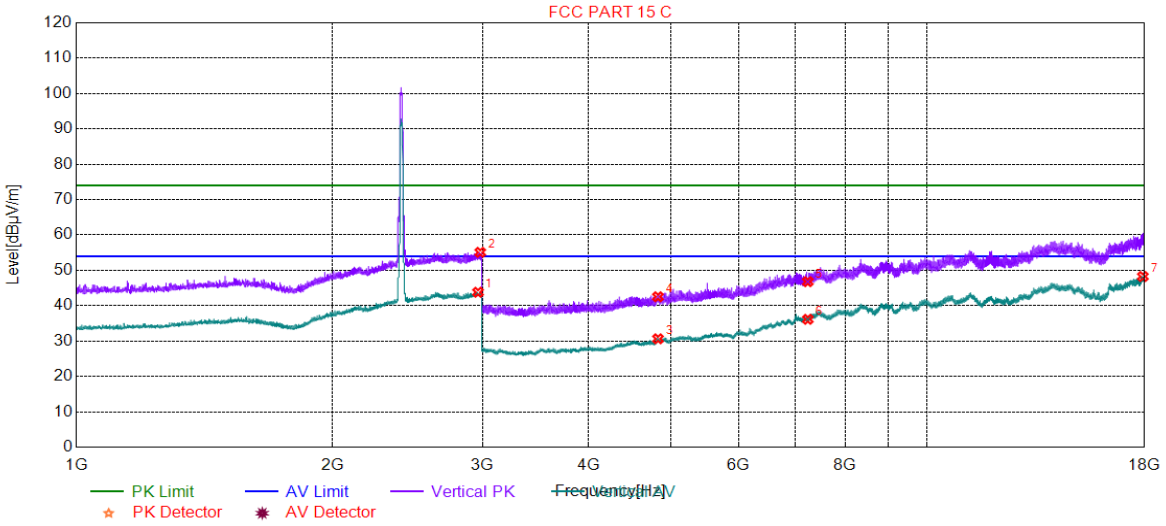
4.9.2.1.7 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.4911	43.81	9.61	54.00	10.19	259	326	Vertical
2	2982.4956	55.10	9.53	74.00	18.90	180	149	Vertical
3	4824.0000	30.65	-18.21	54.00	23.35	152	174	Vertical
4	4824.0000	42.54	-18.21	74.00	31.46	228	328	Vertical
5	7236.0000	46.80	-9.99	74.00	27.20	281	33	Vertical
6	7236.0000	36.16	-9.99	54.00	17.84	282	298	Vertical
7	17915.2958	48.26	1.69	54.00	5.74	281	354	Vertical

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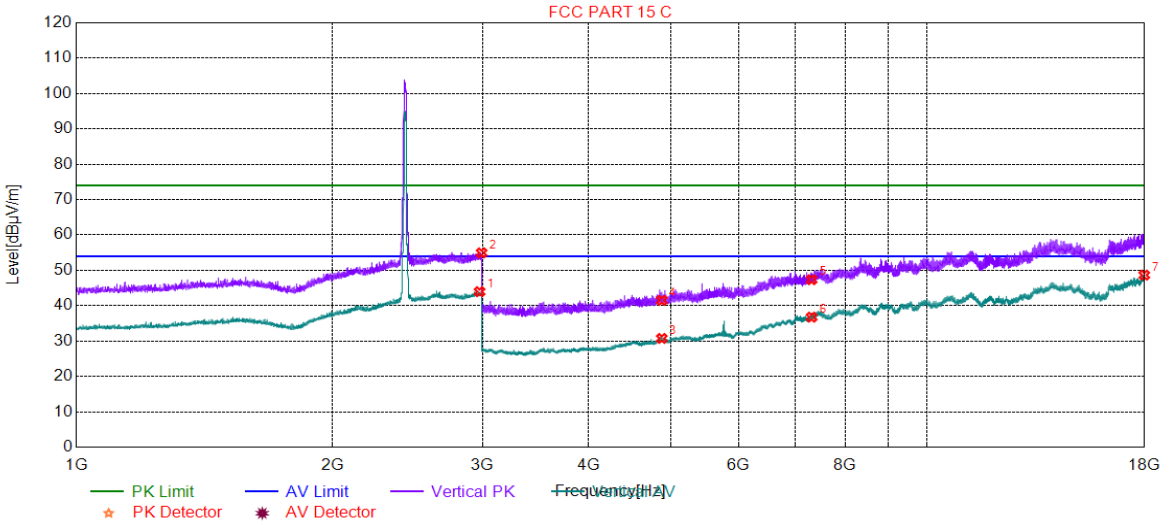
4.9.2.1.8 802.11G_Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2976.9942	43.98	9.56	54.00	10.02	250	75	Vertical
2	2993.4984	54.95	9.48	74.00	19.05	255	18	Vertical
3	4874.0000	30.75	-17.99	54.00	23.25	213	336	Vertical
4	4874.0000	41.52	-17.99	74.00	32.48	259	0	Vertical
5	7311.0000	47.36	-9.74	74.00	26.64	193	136	Vertical
6	7311.0000	36.77	-9.74	54.00	17.23	164	346	Vertical
7	17982.3991	48.66	1.71	54.00	5.34	237	136	Vertical

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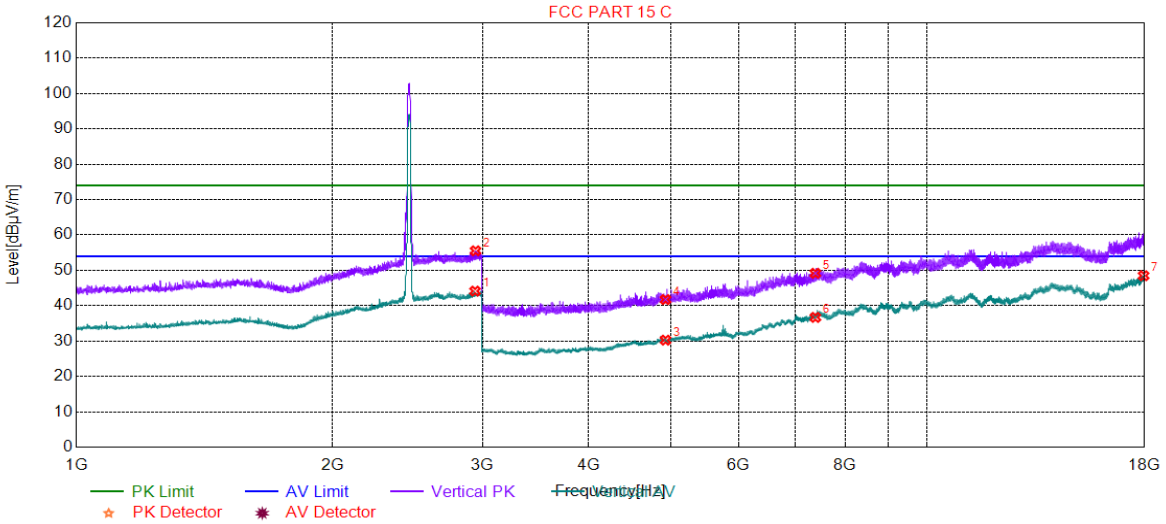
4.9.2.1.9 802.11G_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2940.9852	44.13	9.58	54.00	9.87	289	298	Vertical
2	2944.9862	55.52	9.63	74.00	18.48	268	312	Vertical
3	4924.0000	30.26	-17.72	54.00	23.74	295	52	Vertical
4	4924.0000	41.73	-17.72	74.00	32.27	209	311	Vertical
5	7386.0000	49.17	-9.55	74.00	24.83	234	249	Vertical
6	7386.0000	36.70	-9.55	54.00	17.30	231	27	Vertical
7	17949.9475	48.48	1.70	54.00	5.52	256	194	Vertical

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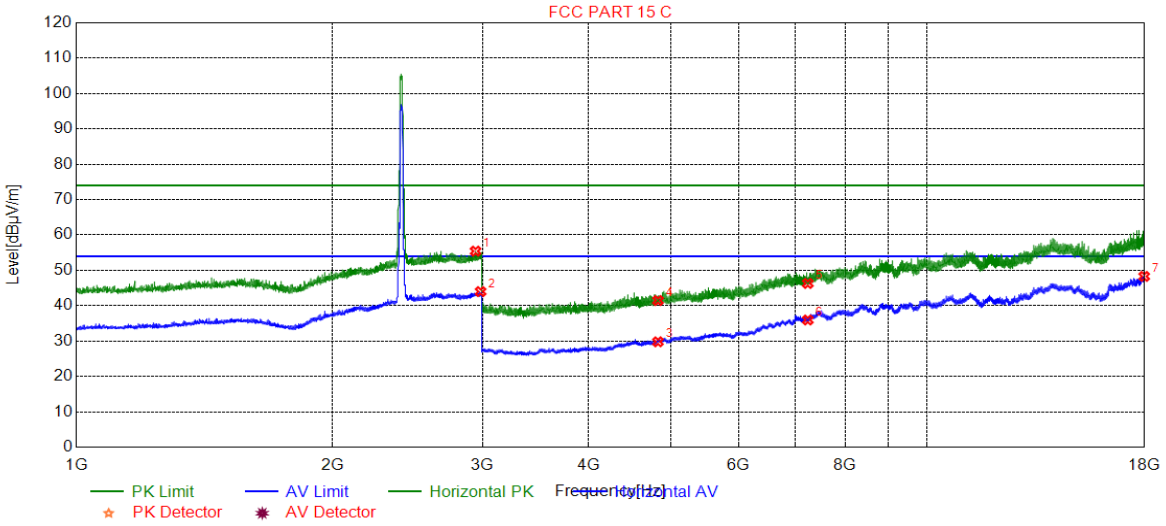
4.9.2.1.10 802.11G_Lowest Channel_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2944.9862	55.43	9.63	74.00	18.57	218	328	Horizontal
2	2985.4964	44.00	9.52	54.00	10.00	228	173	Horizontal
3	4824.0000	29.80	-18.21	54.00	24.20	125	342	Horizontal
4	4824.0000	41.47	-18.21	74.00	32.53	234	86	Horizontal
5	7236.0000	46.30	-9.99	74.00	27.70	111	340	Horizontal
6	7236.0000	35.97	-9.99	54.00	18.03	208	23	Horizontal
7	17979.6490	48.29	1.71	54.00	5.71	103	176	Horizontal

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