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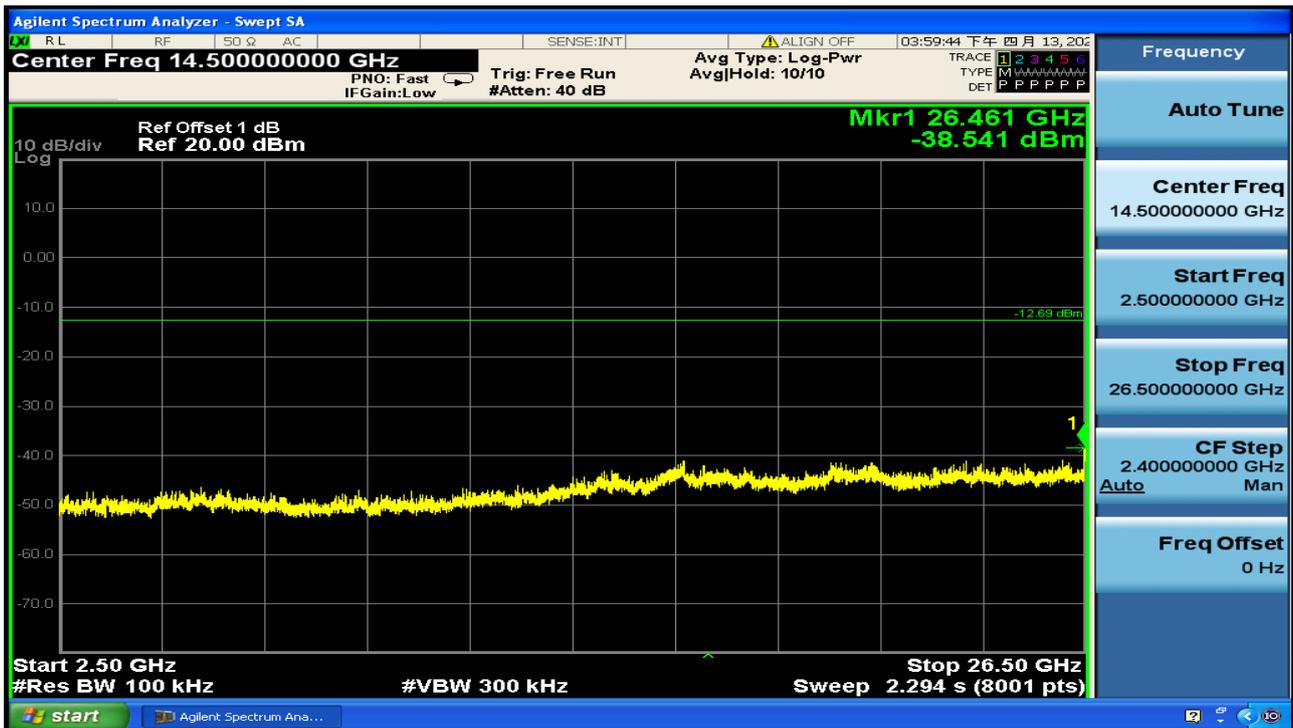
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4.8.1.2.22 802.11AX20MIMO_242T_Lowest Channel

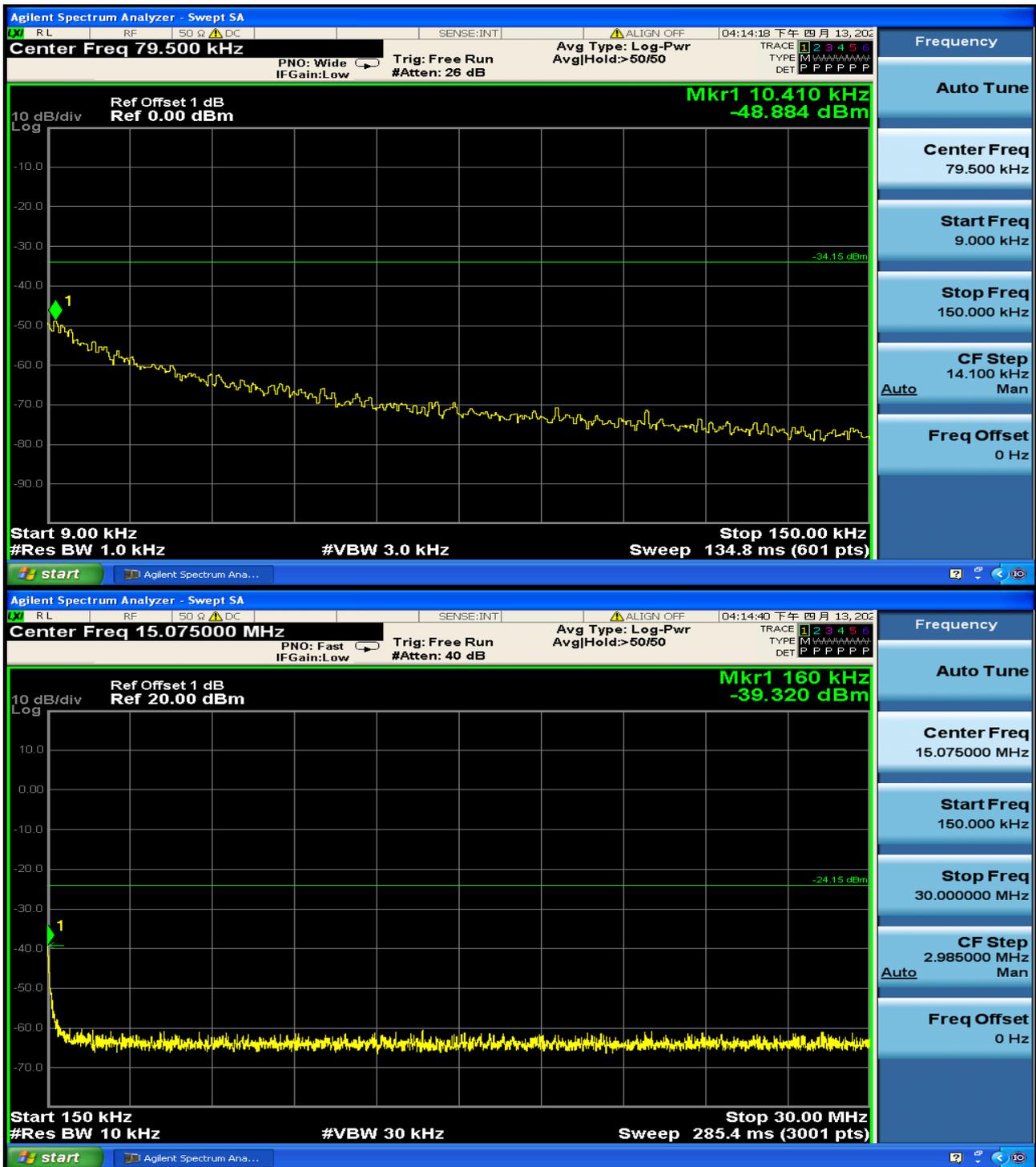


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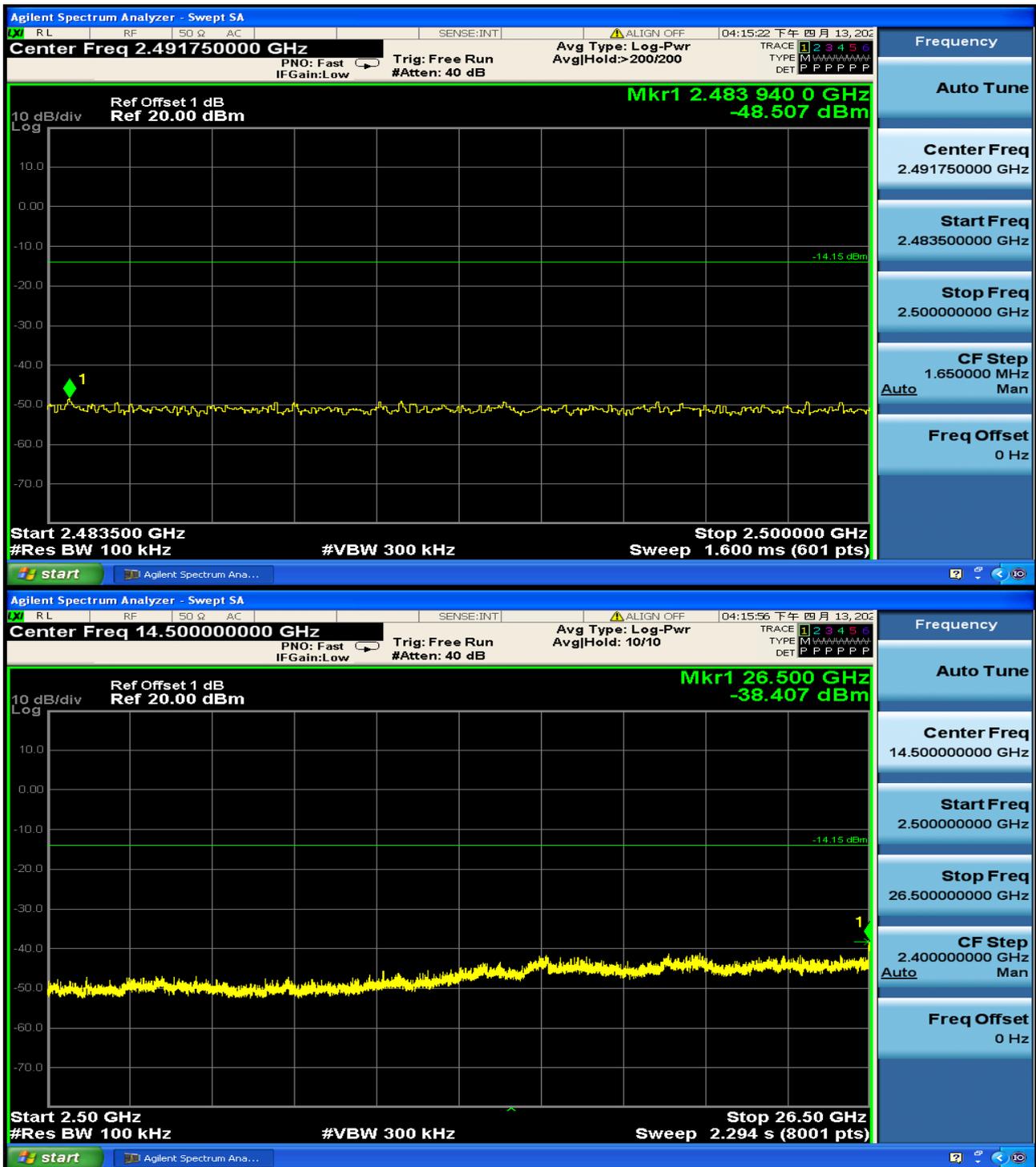
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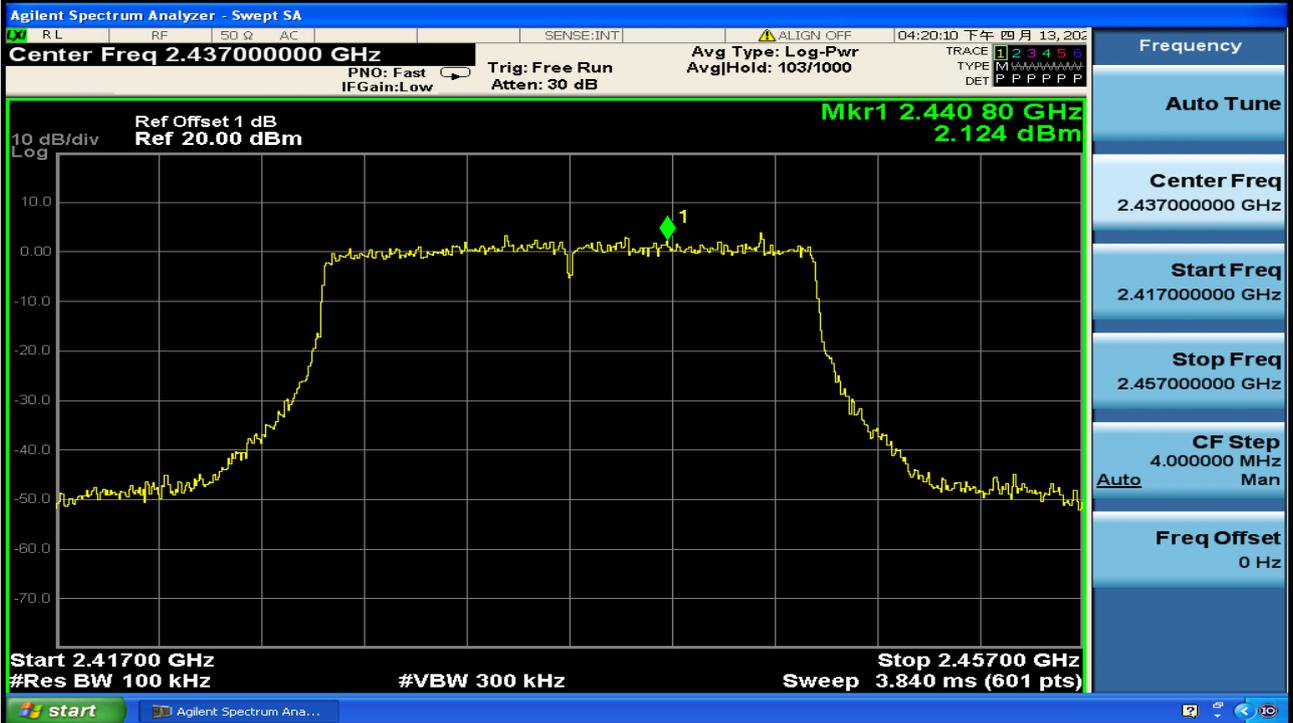


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4.8.1.2.23 802.11AX20MIMO_242T_Middle Channel

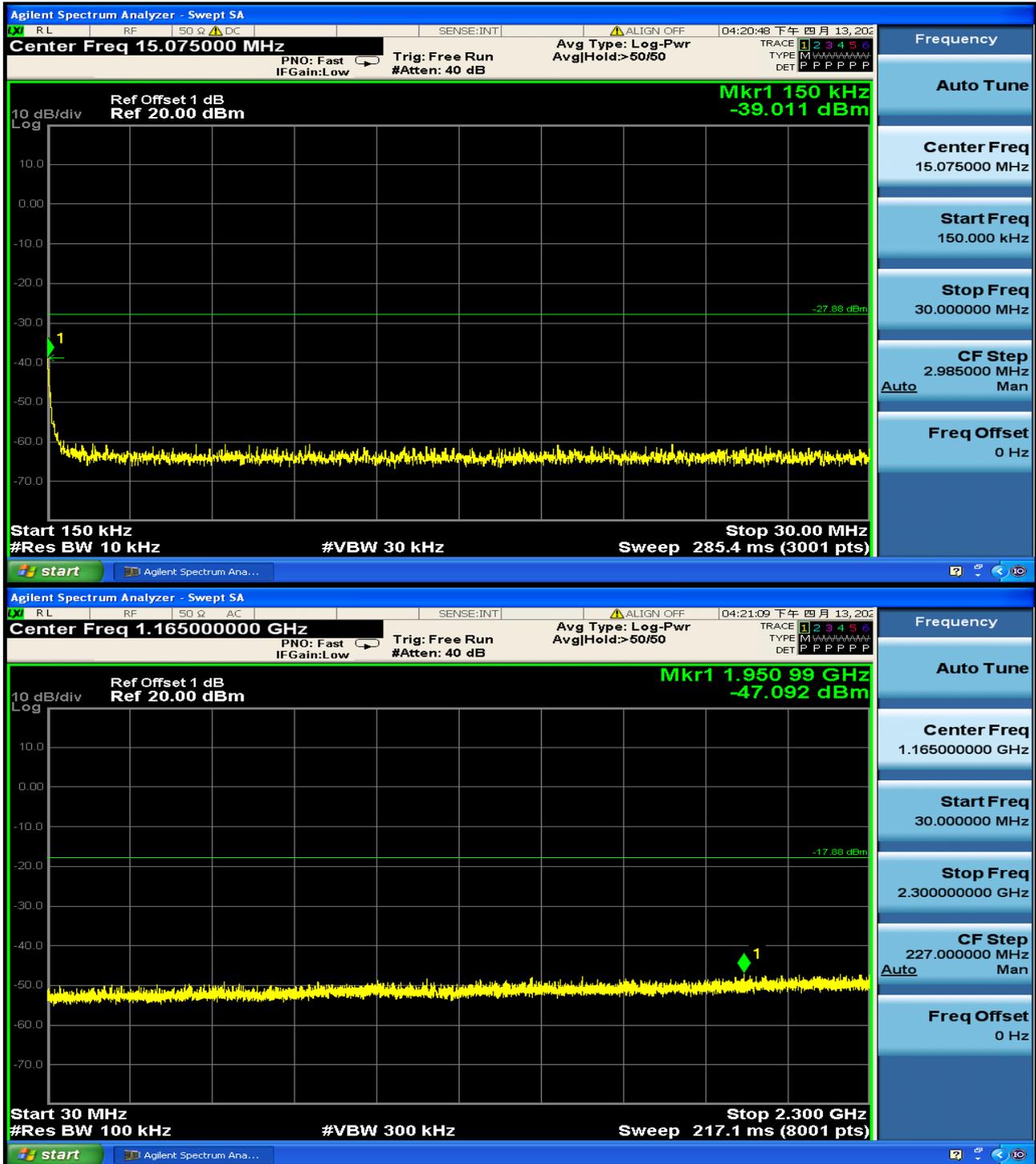


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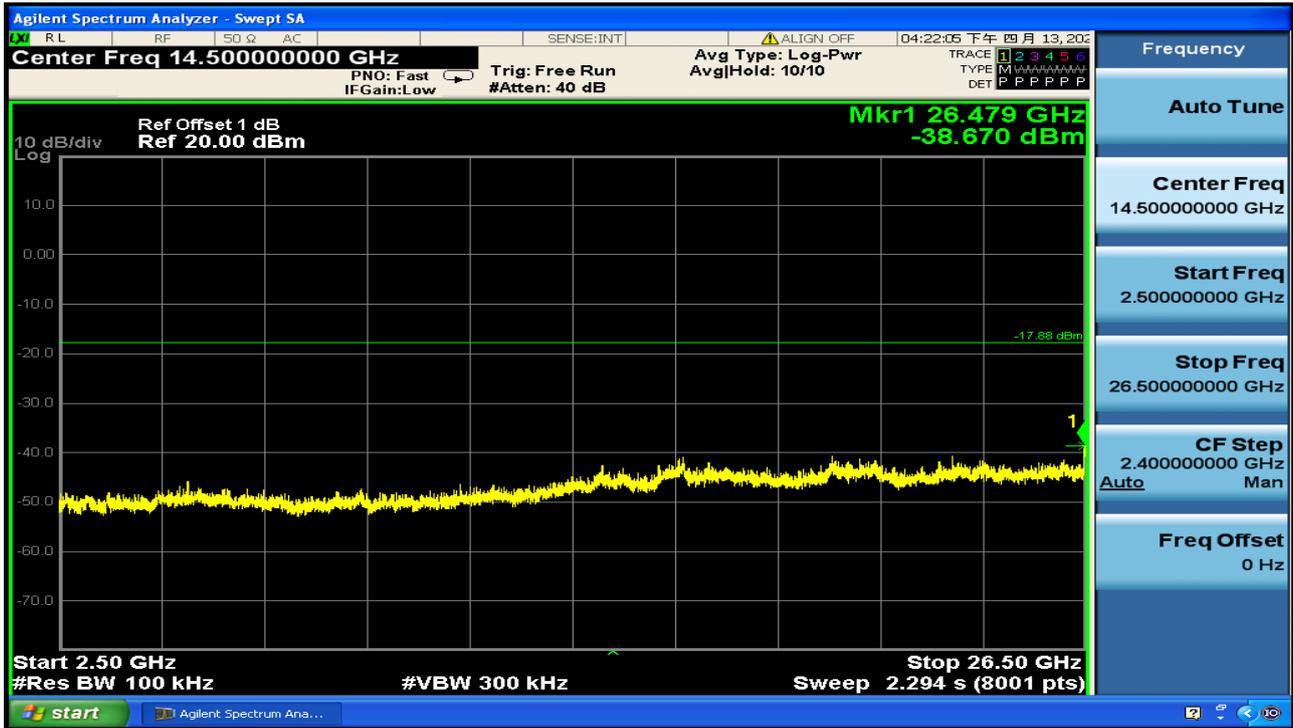


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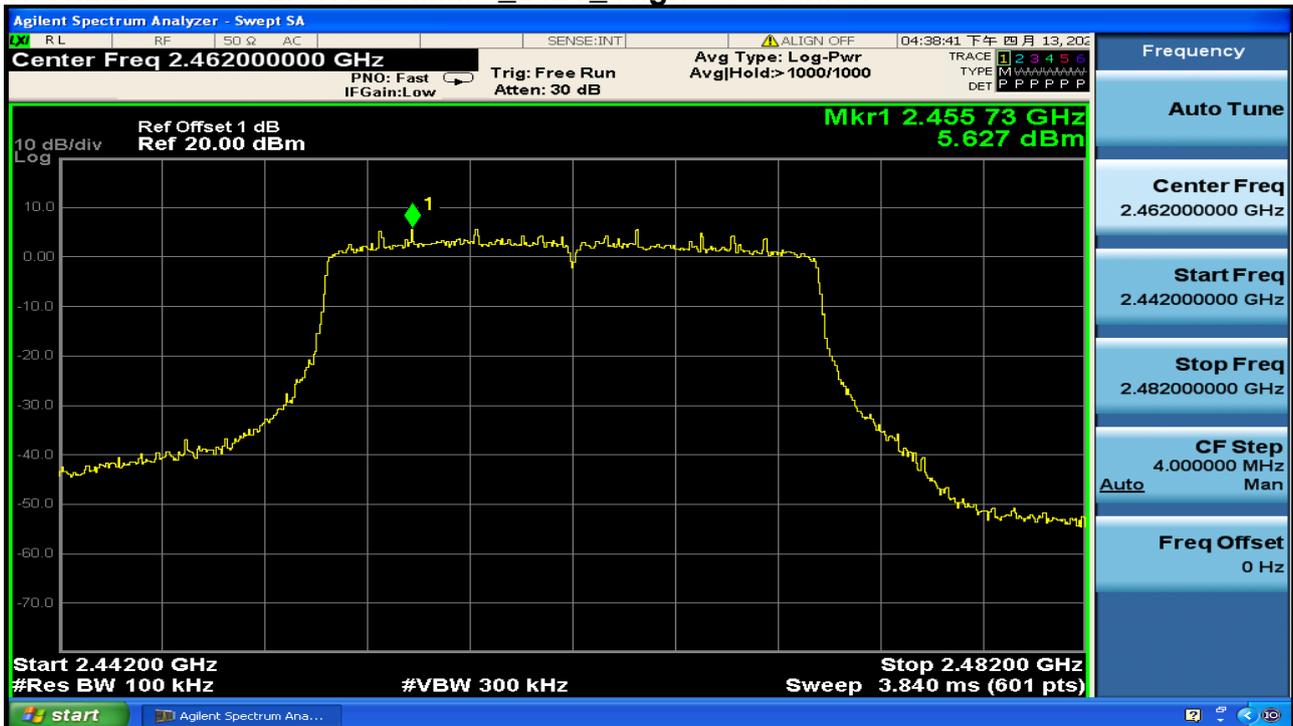
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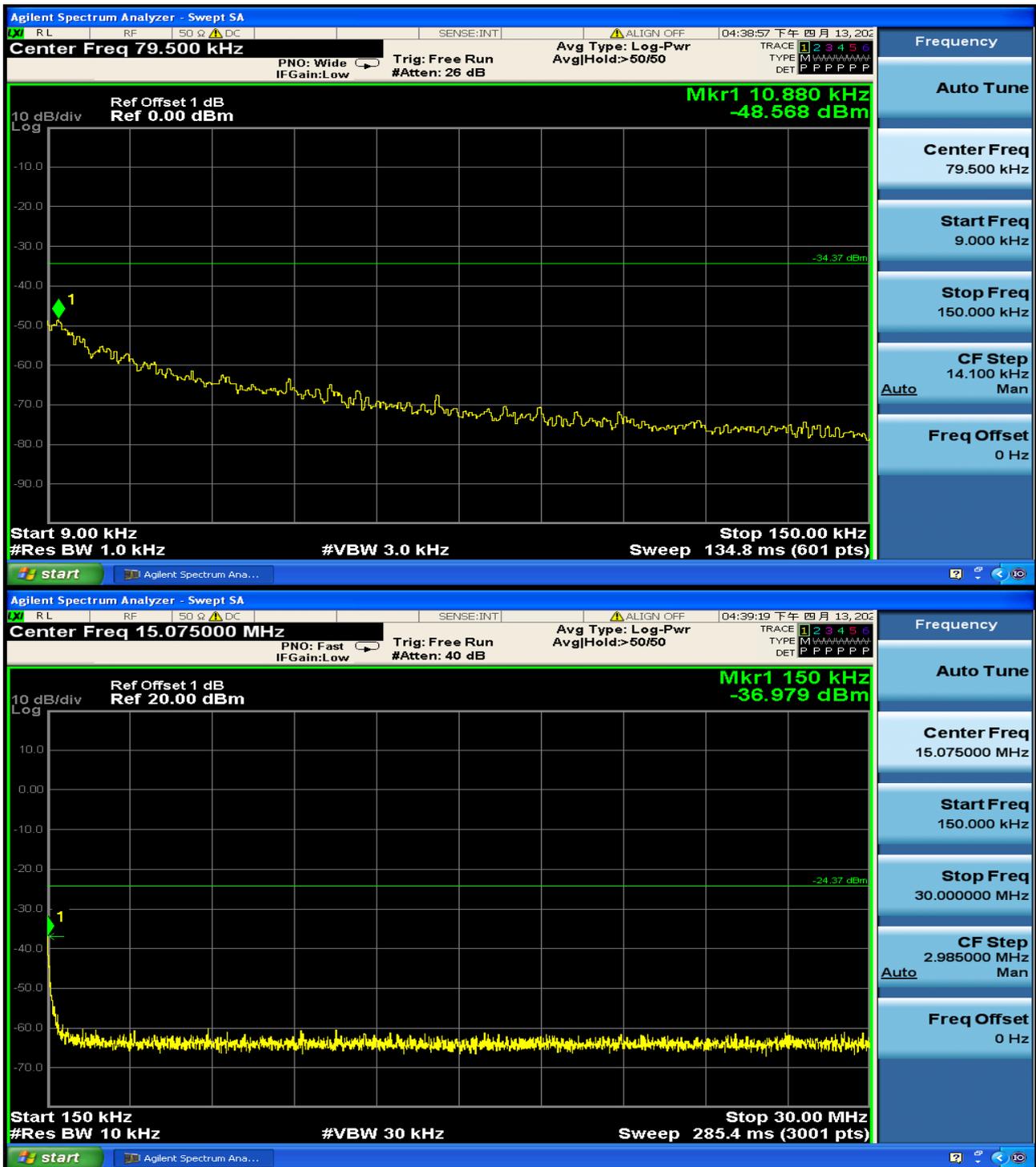


4.8.1.2.24 802.11AX20MIMO_242T_Highest Channel



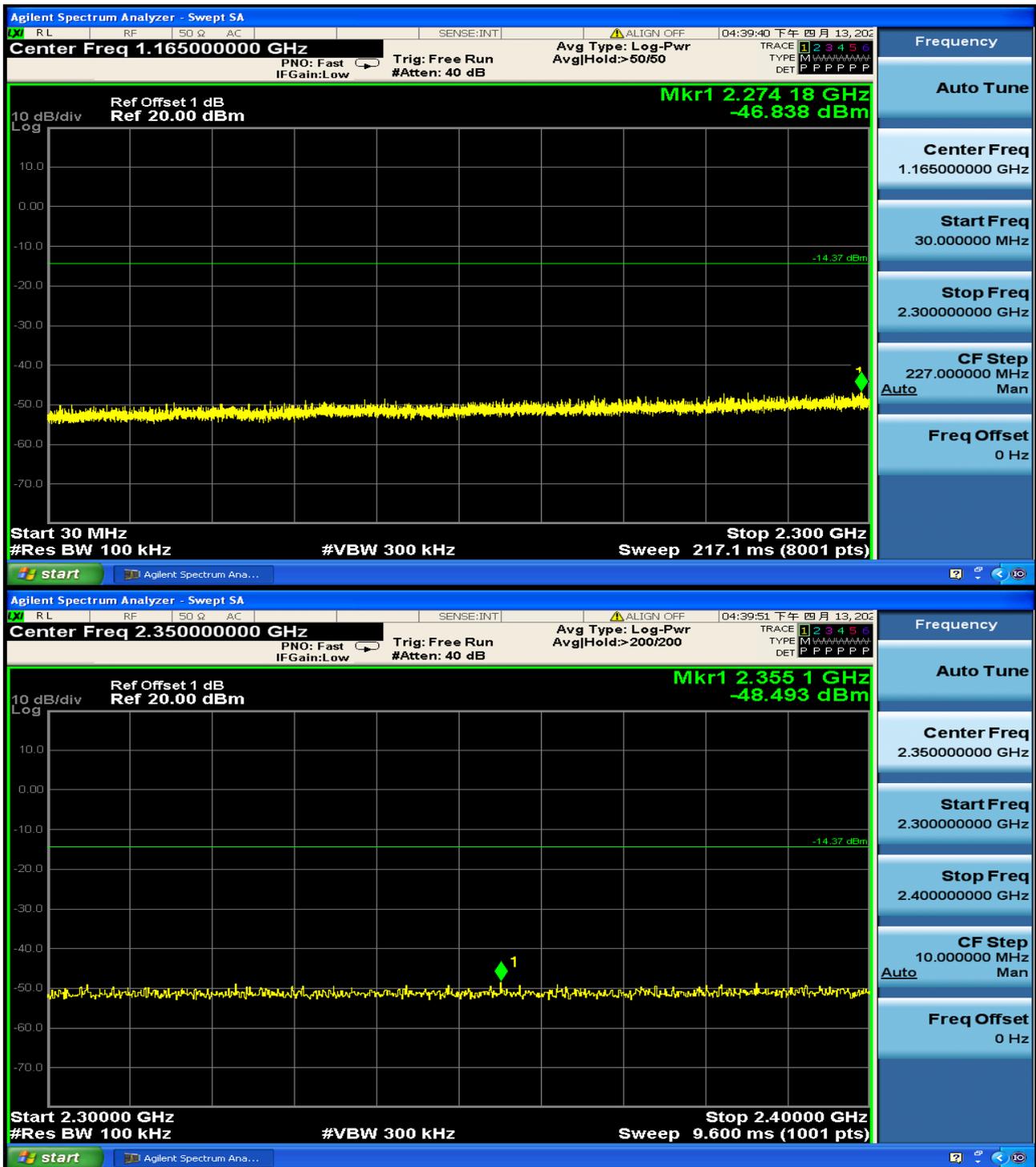
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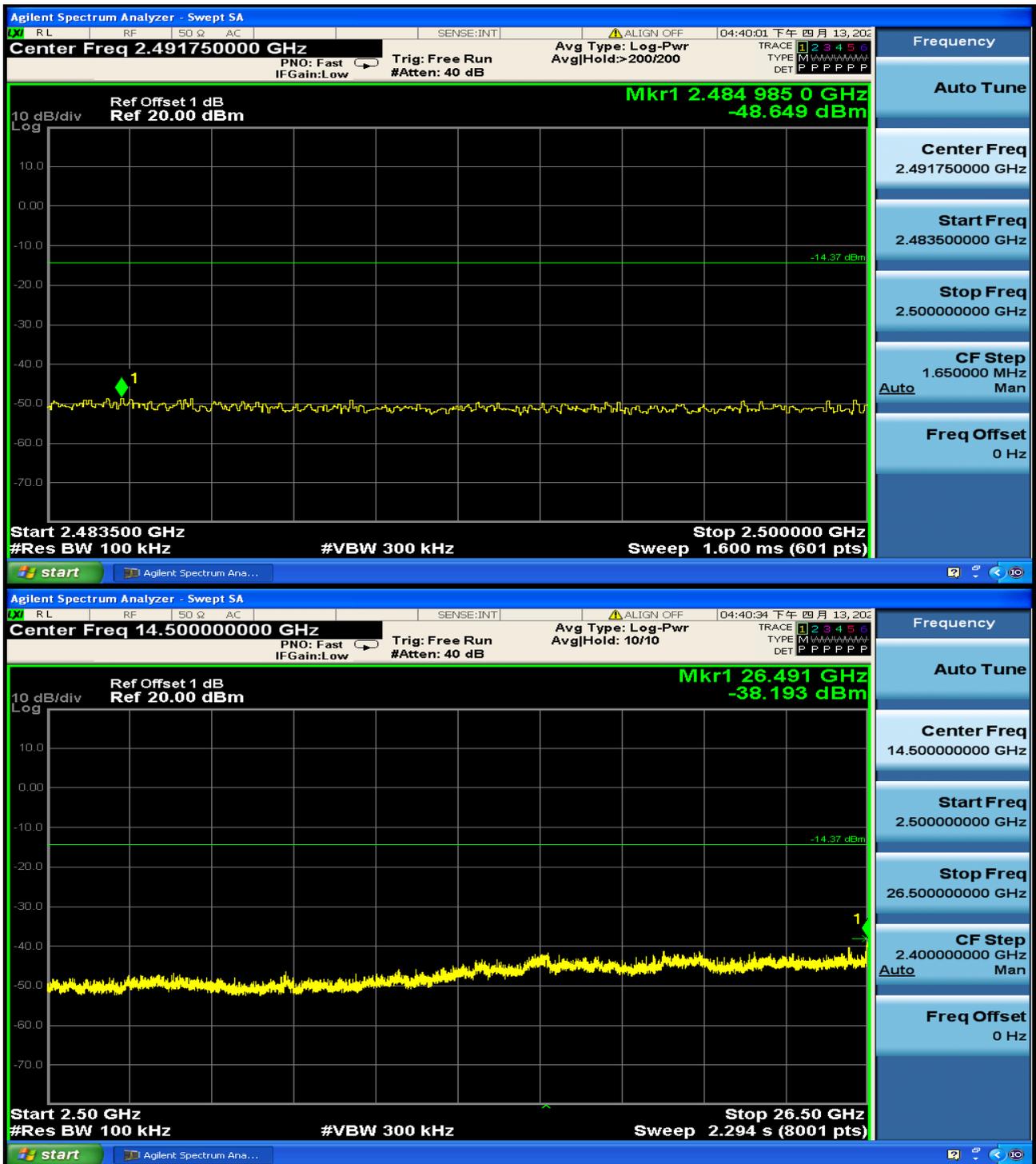


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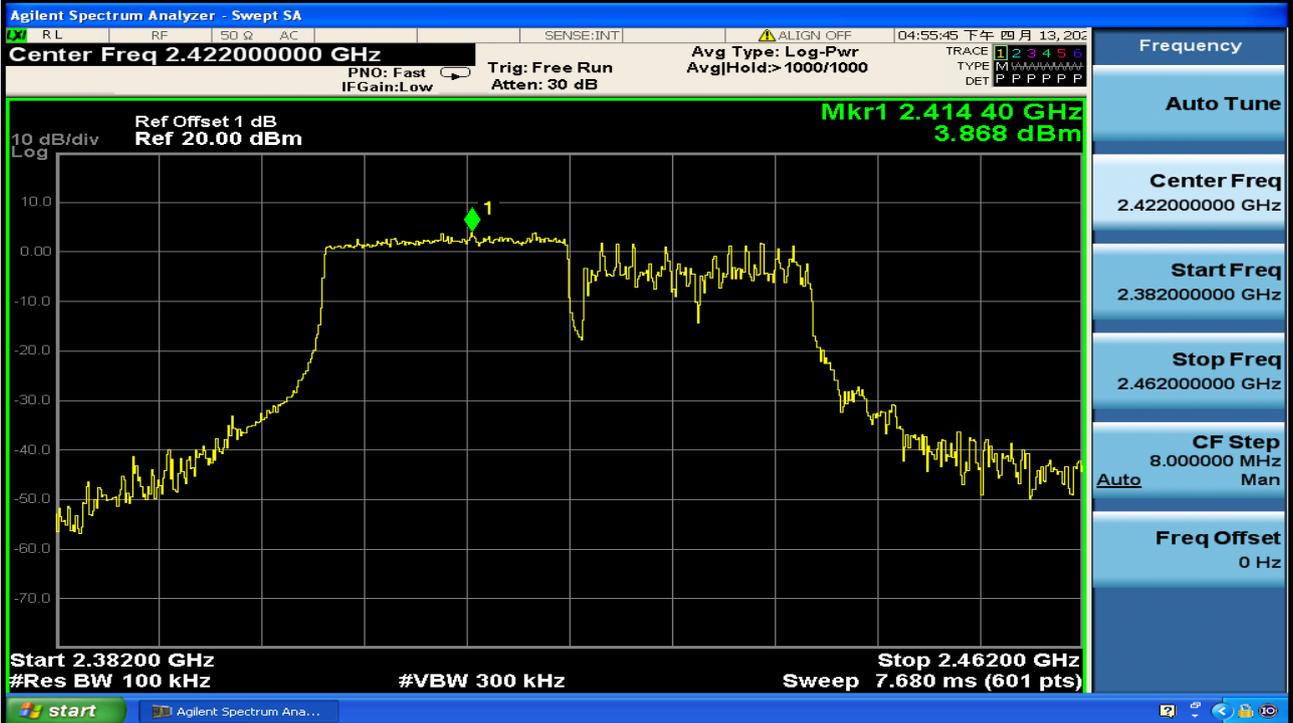


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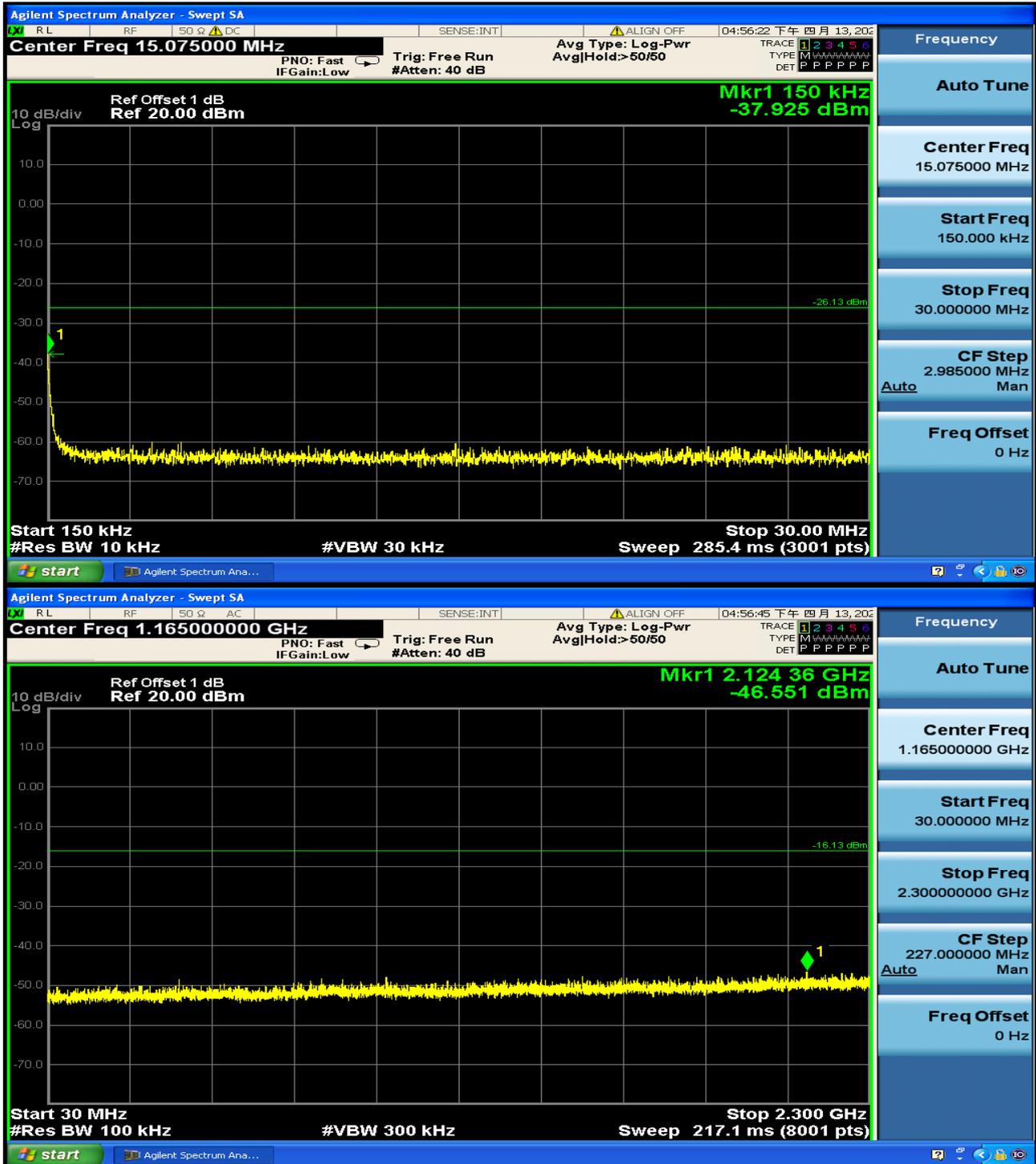
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4.8.1.2.25 802.11AX40MIMO_242T_Lowest Channel

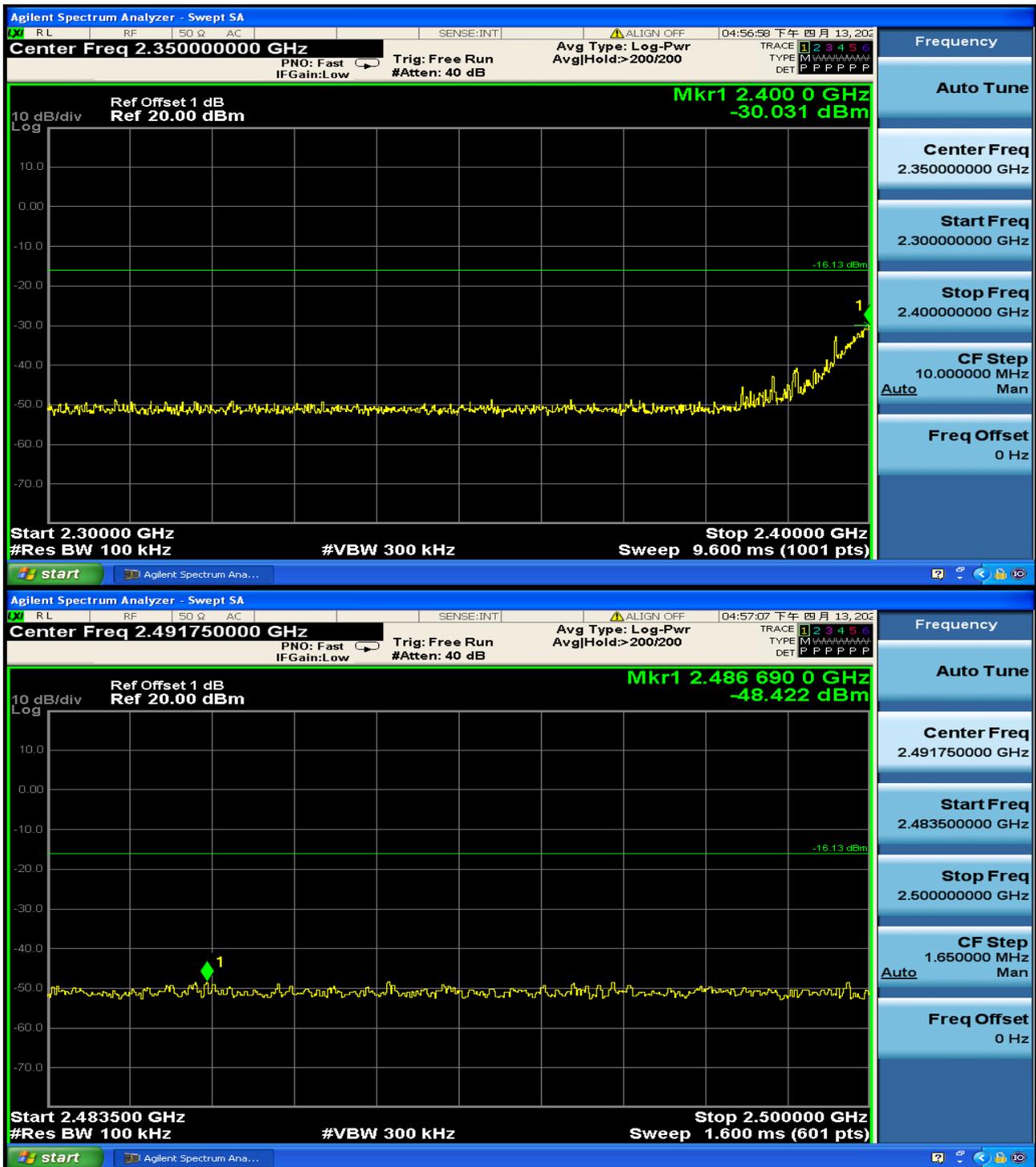


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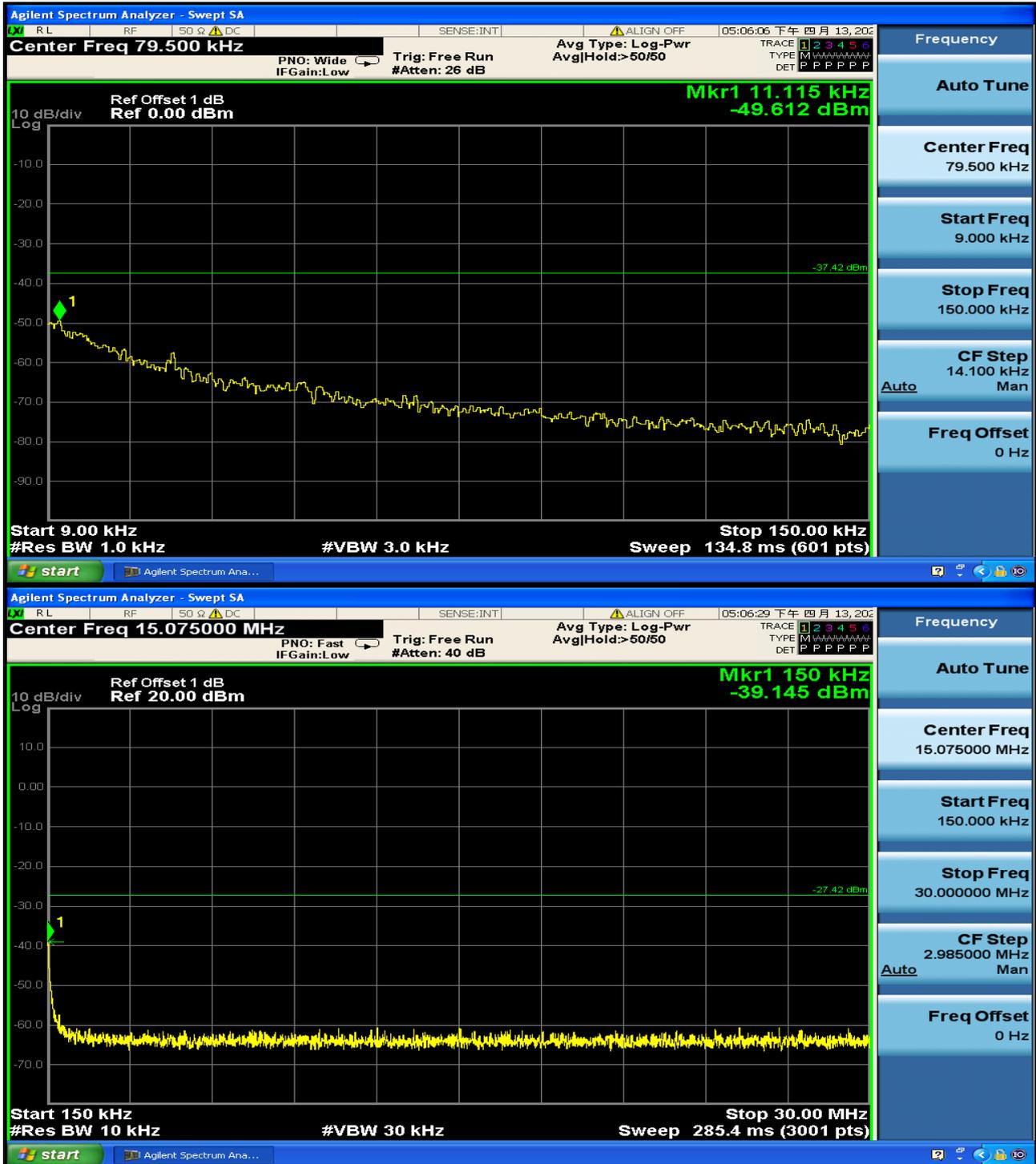
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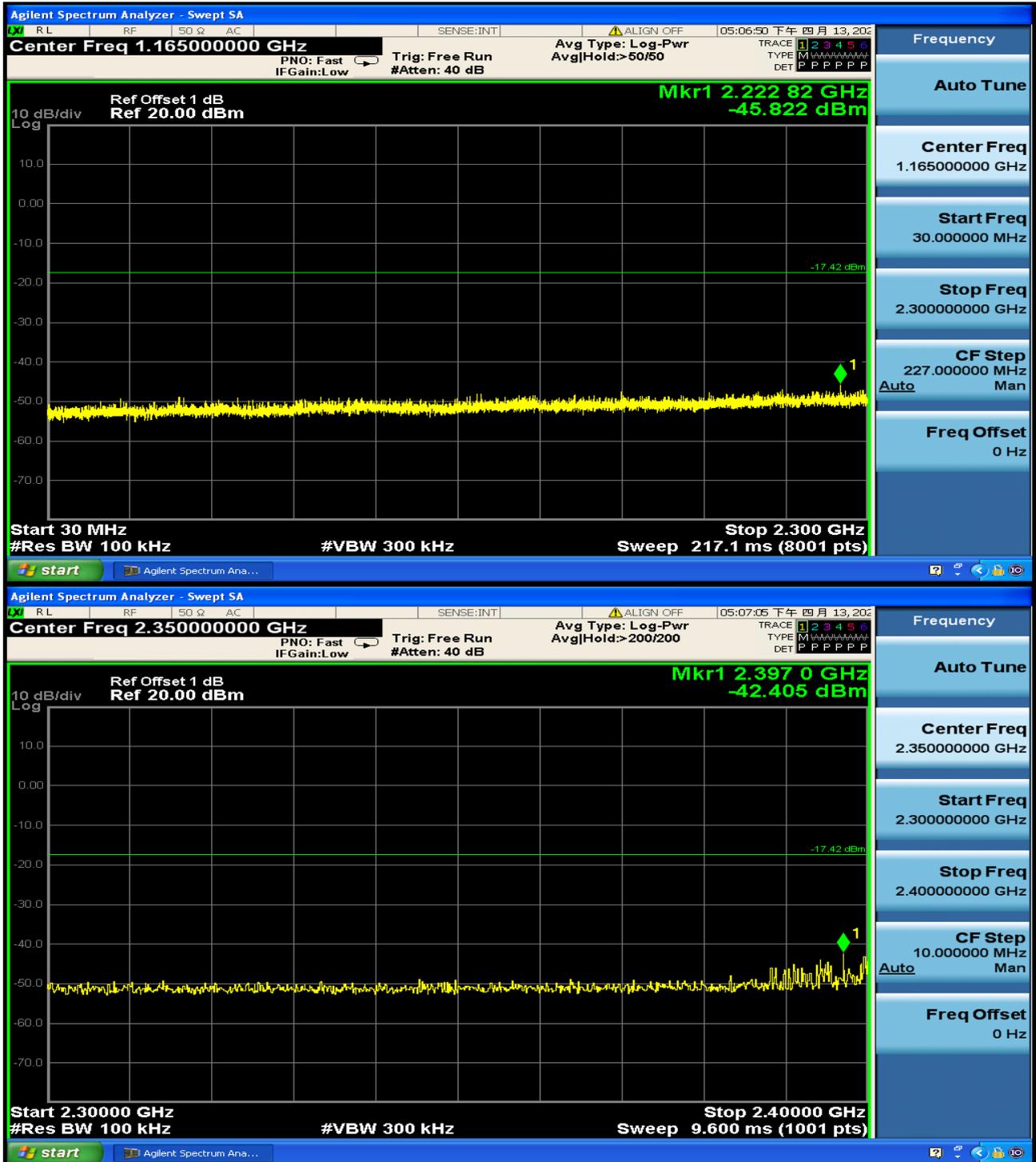
4.8.1.2.26 802.11AX40MIMO_242T_Middle Channel





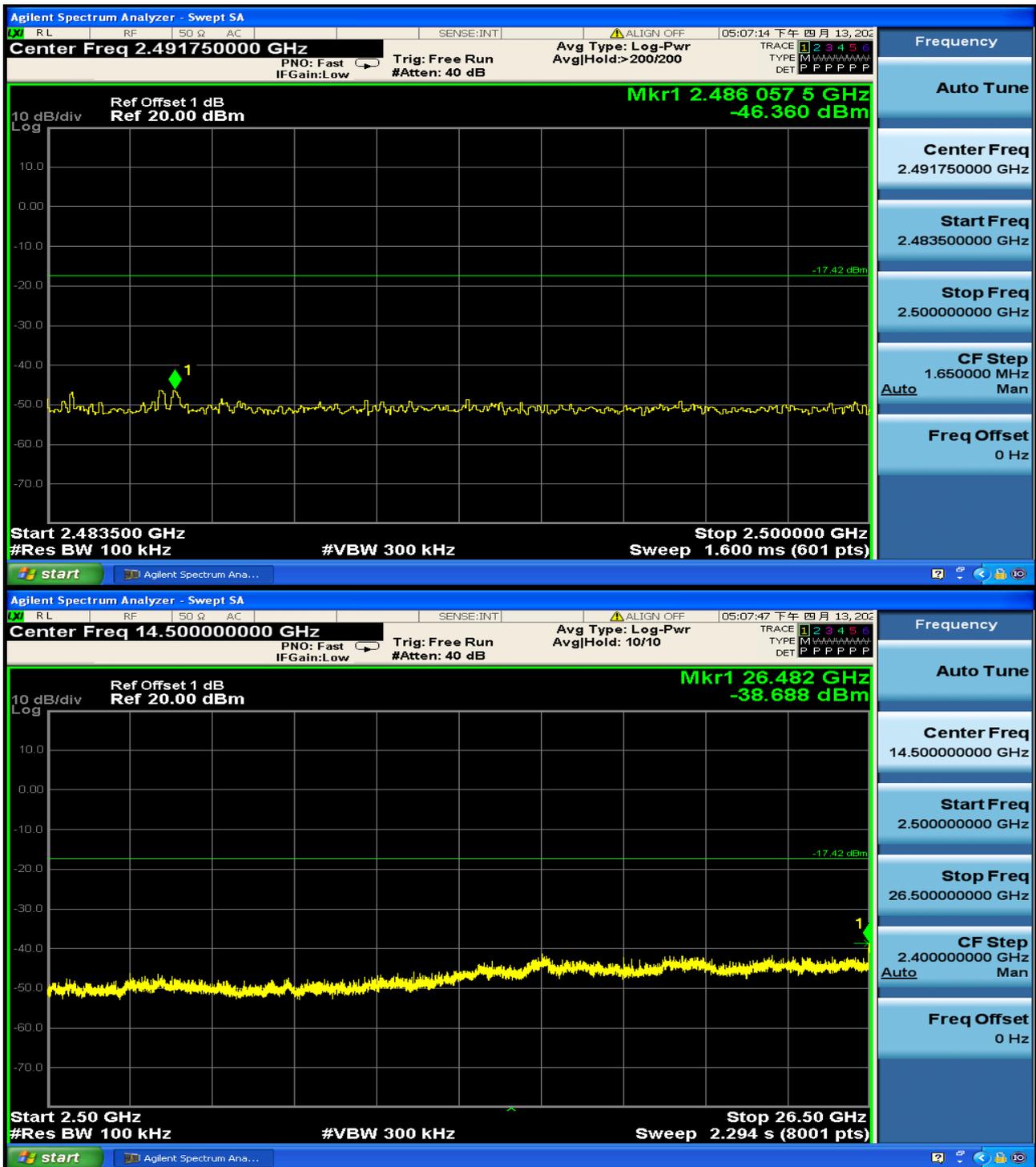
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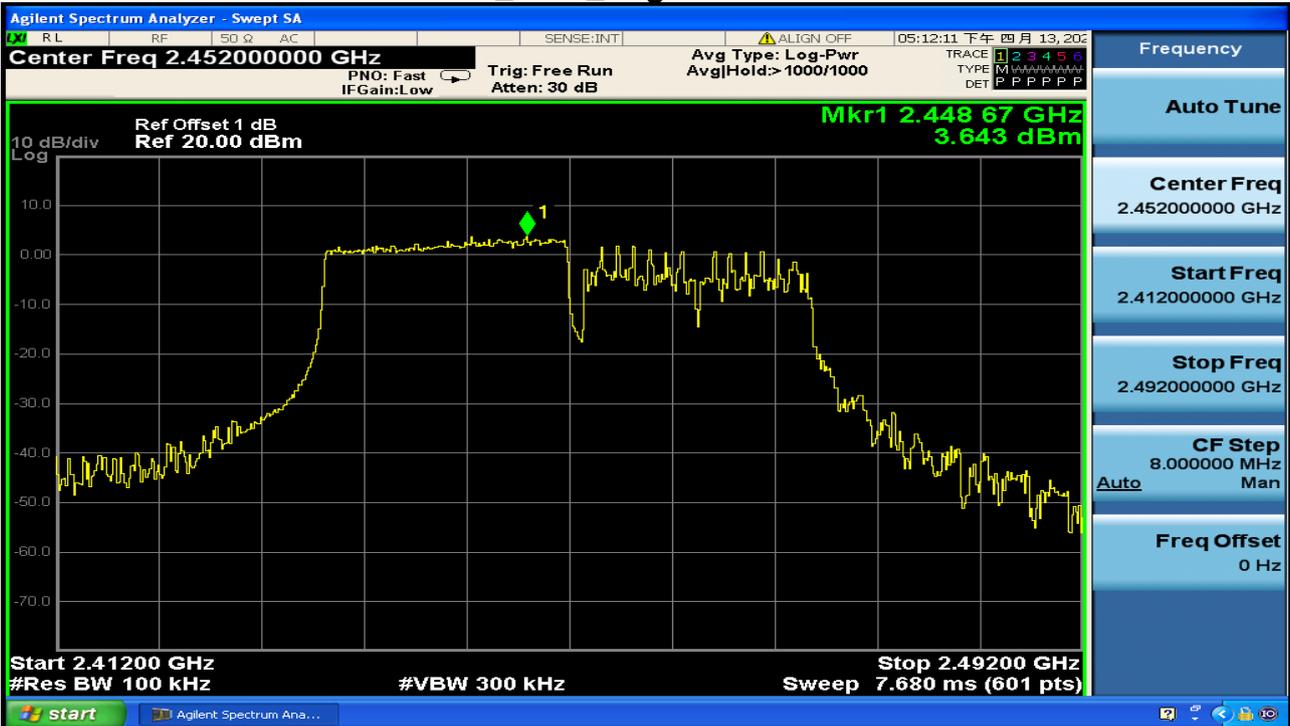


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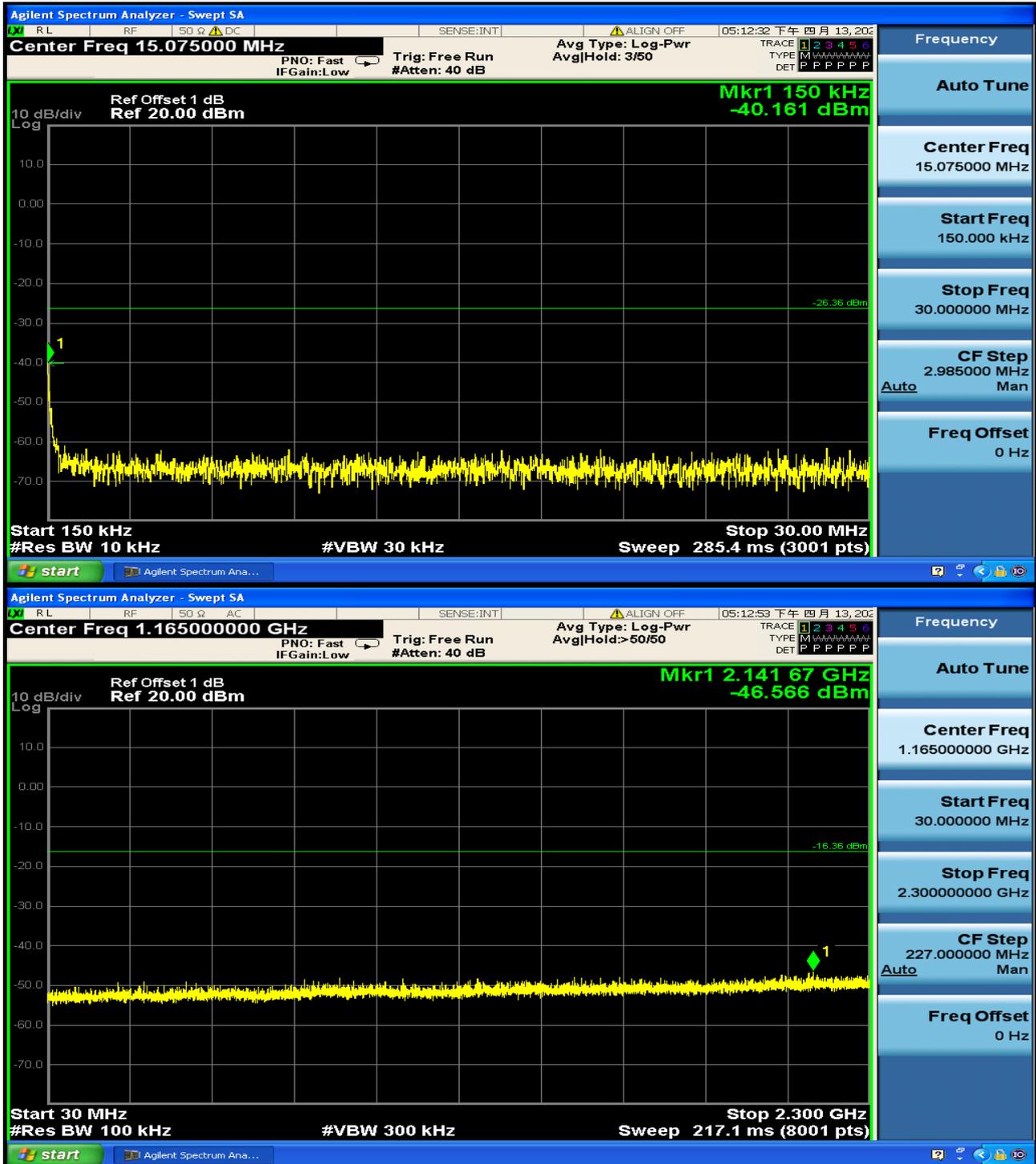


4.8.1.2.27 802.11AX40MIMO_242T_Highest Channel



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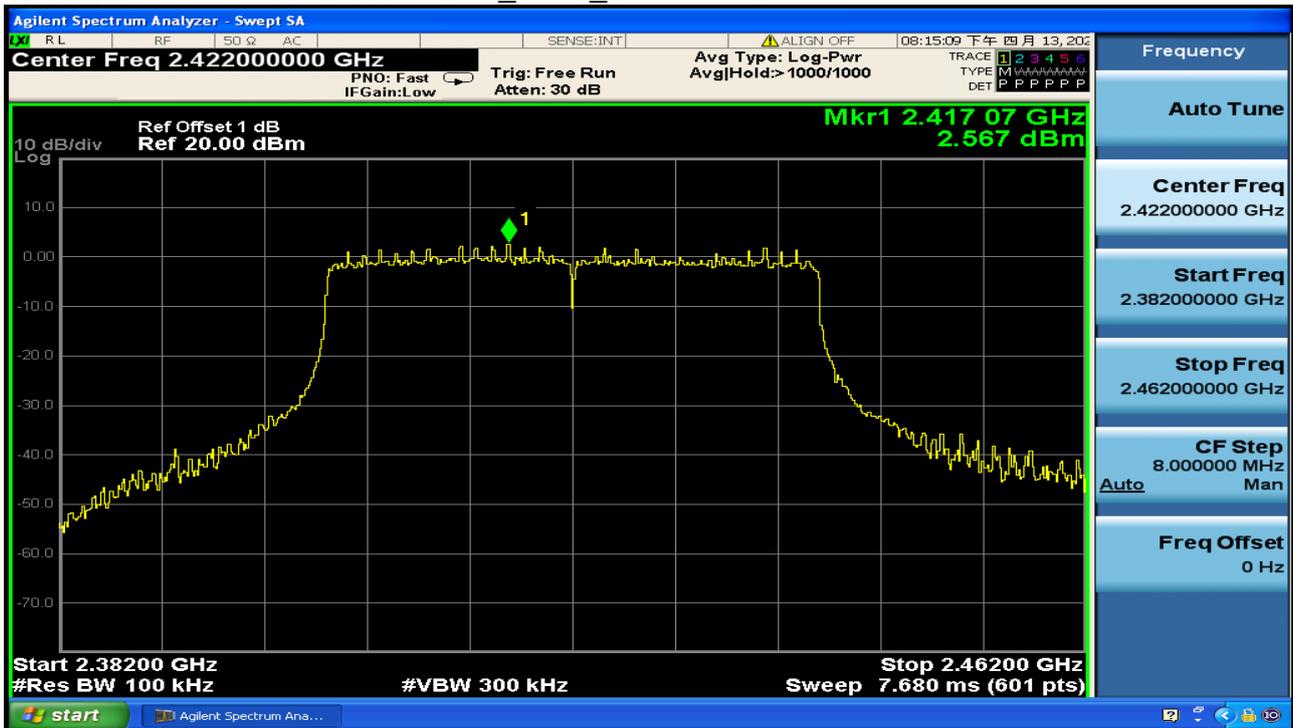


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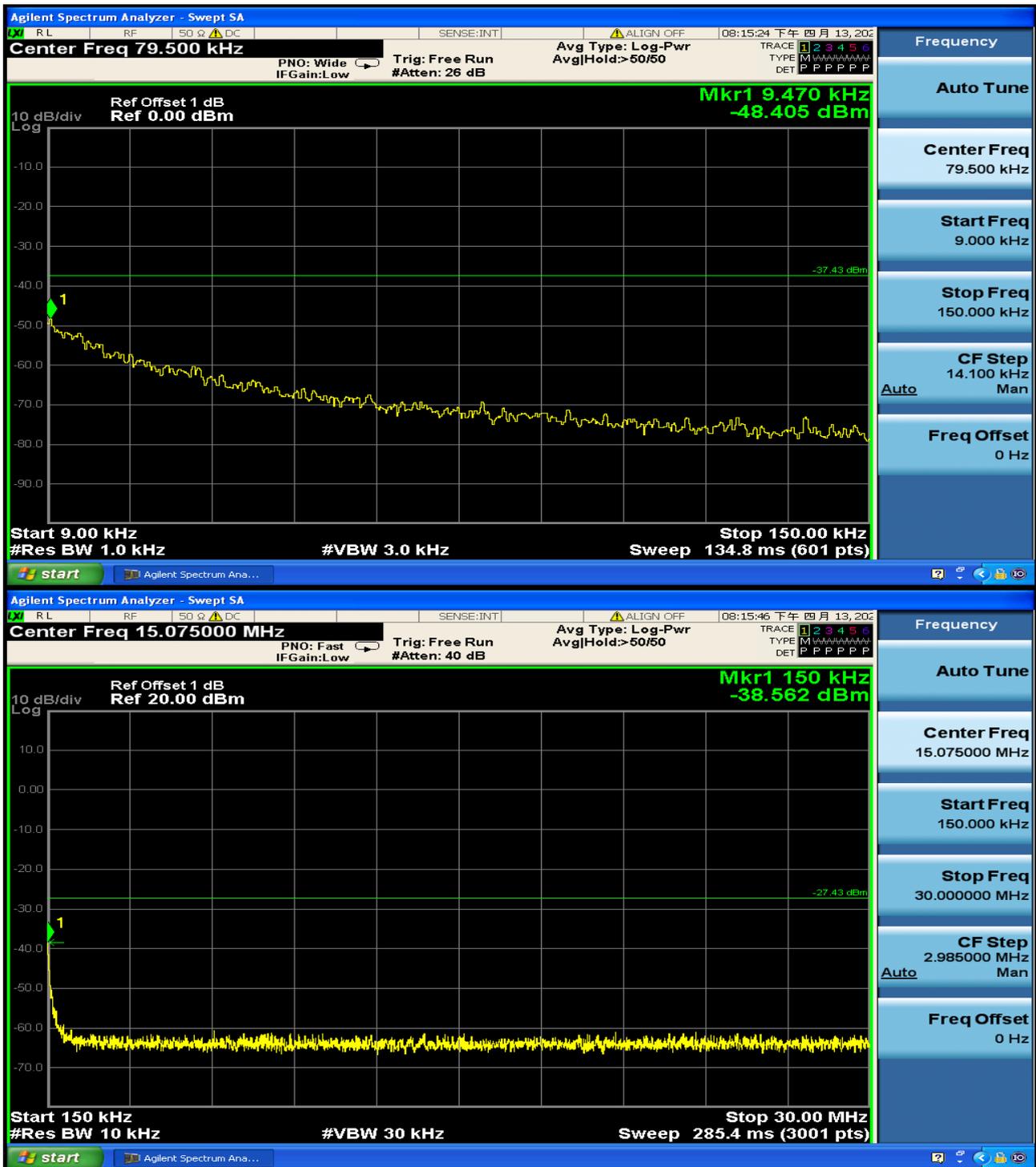


4.8.1.2.28 802.11AX40MIMO_484T_Lowest Channel



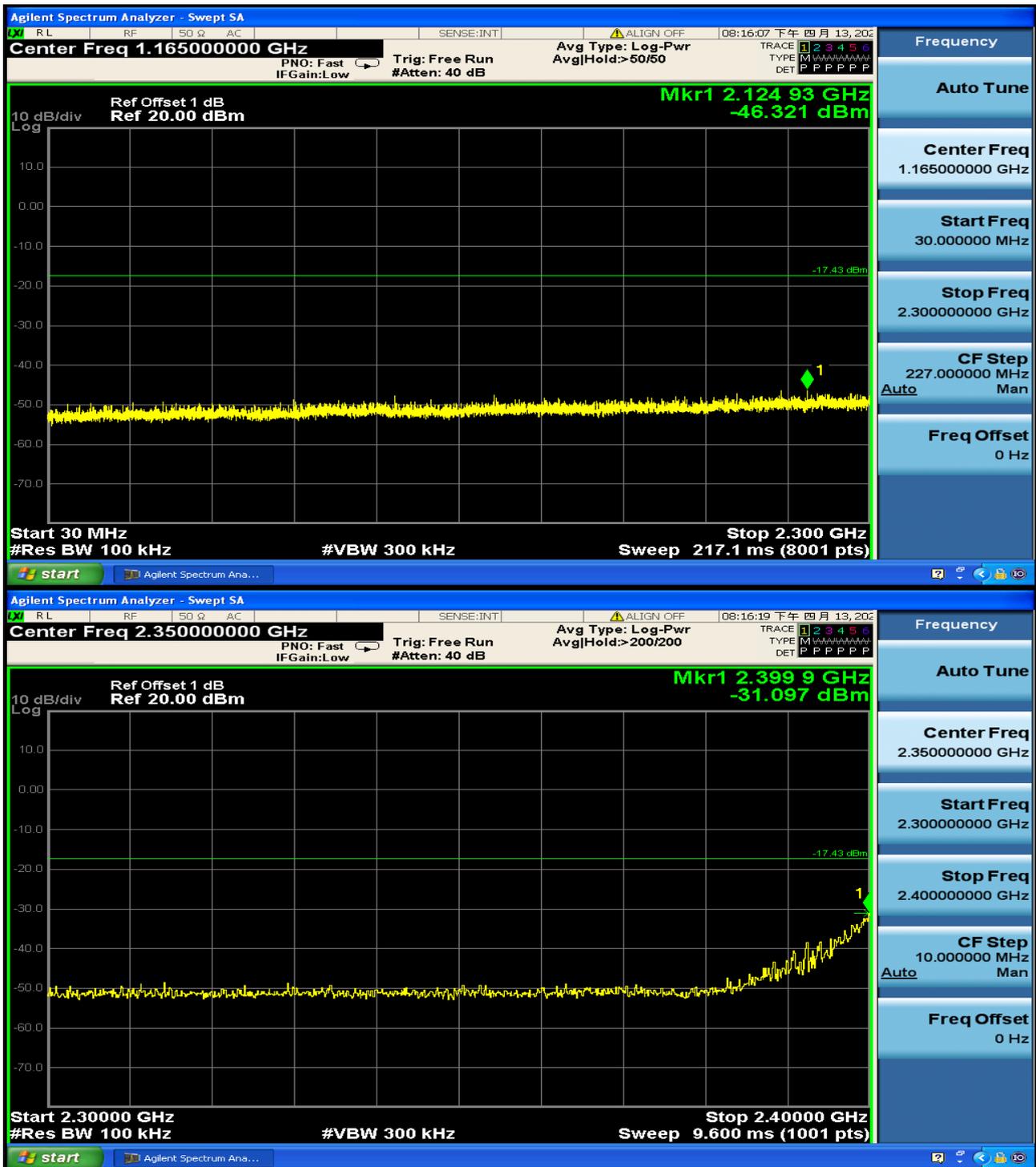
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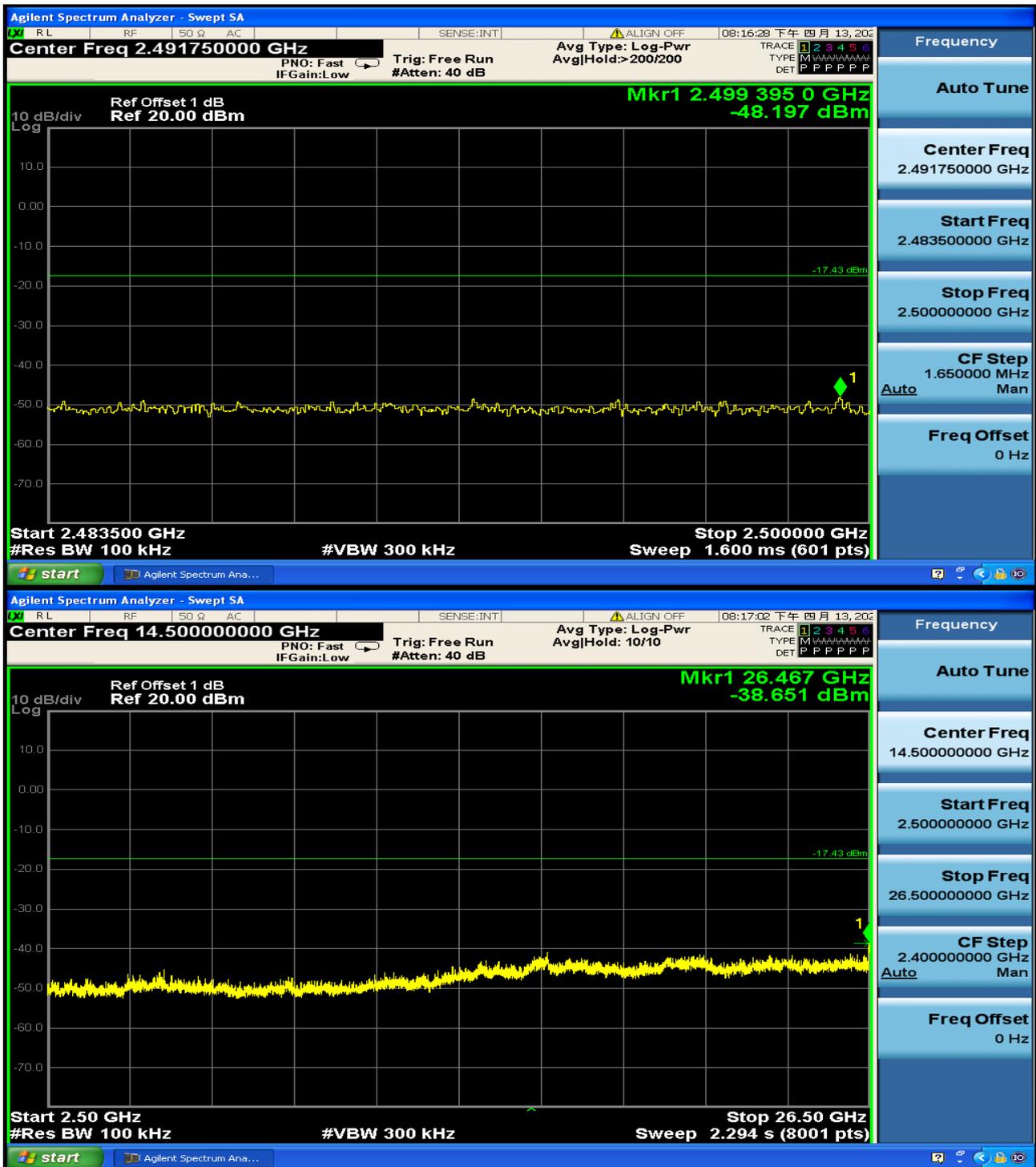
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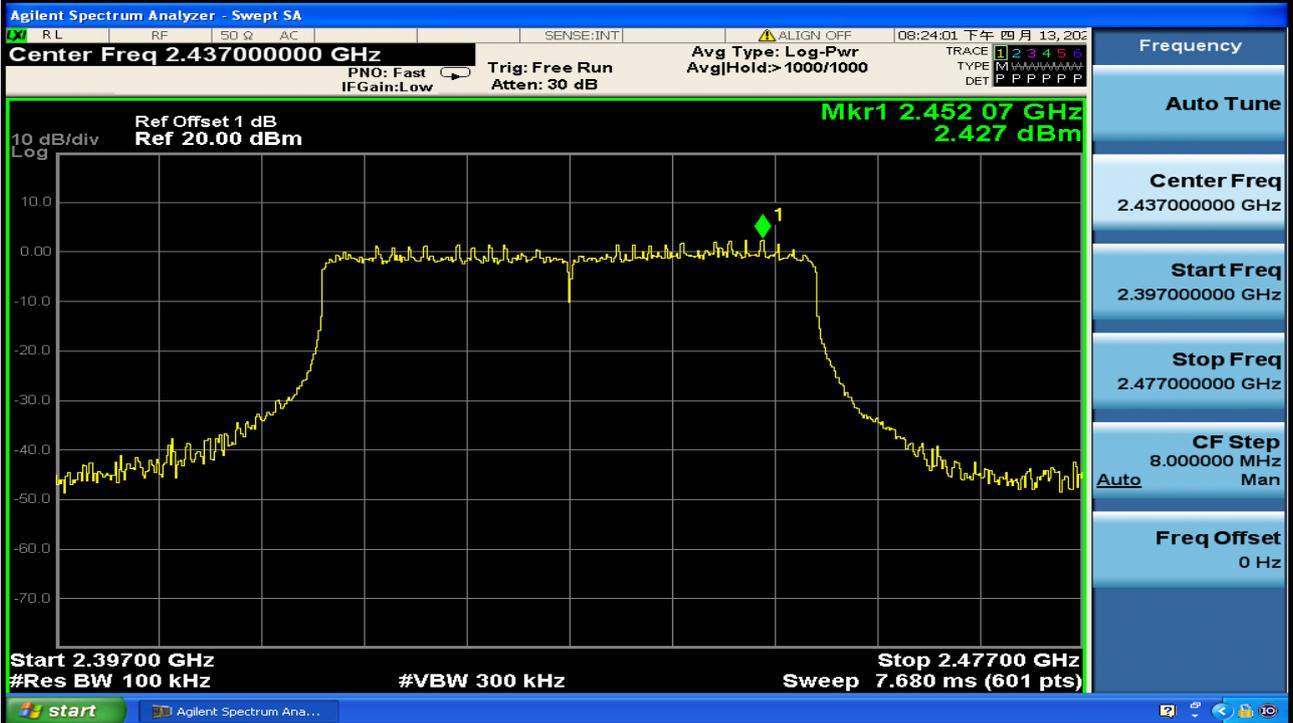


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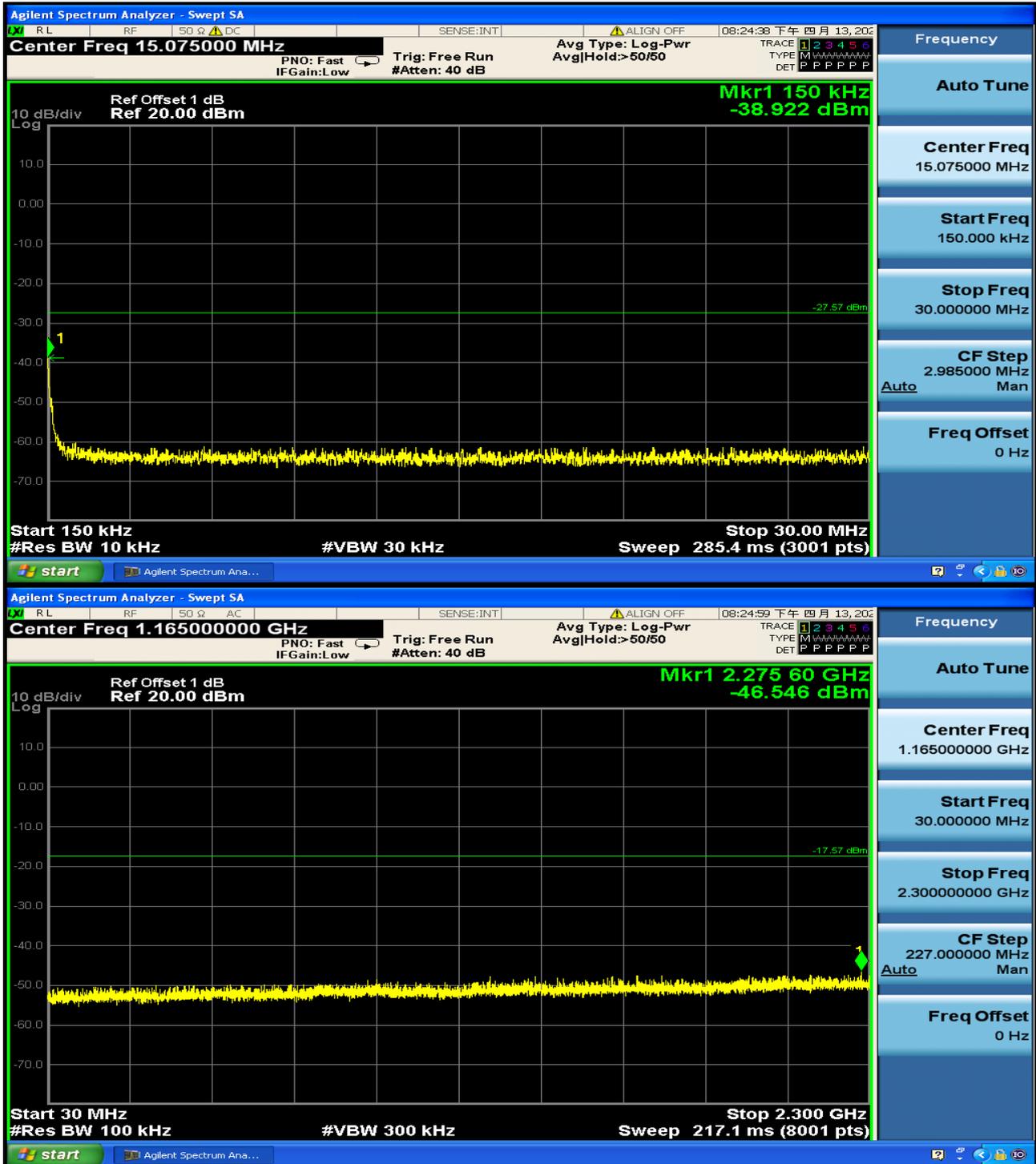
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4.8.1.2.29 802.11AX40MIMO_484T_Middle Channel

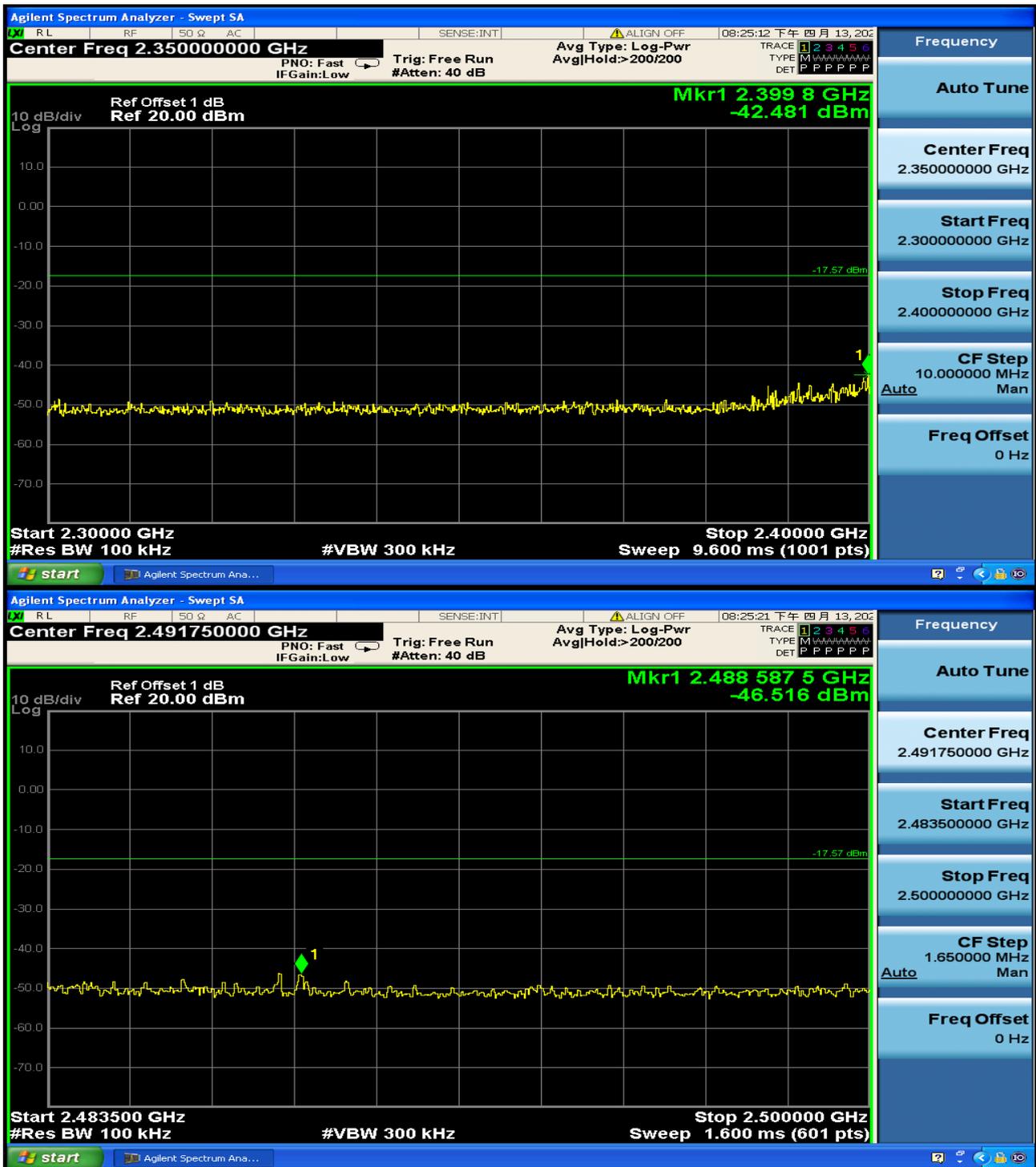


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4.8.1.2.30 802.11AX40MIMO_484T_Highest Channel

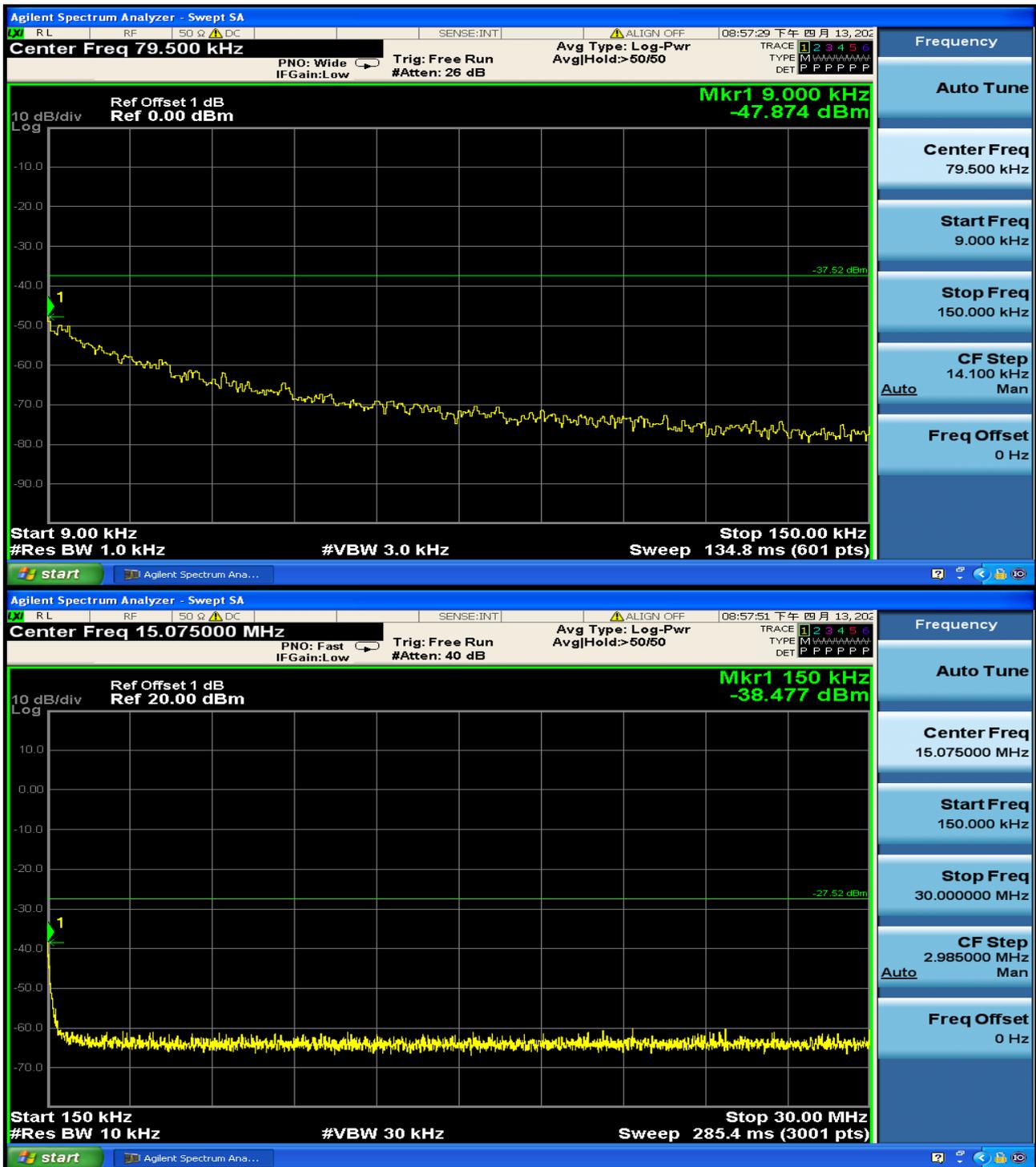


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Remark:

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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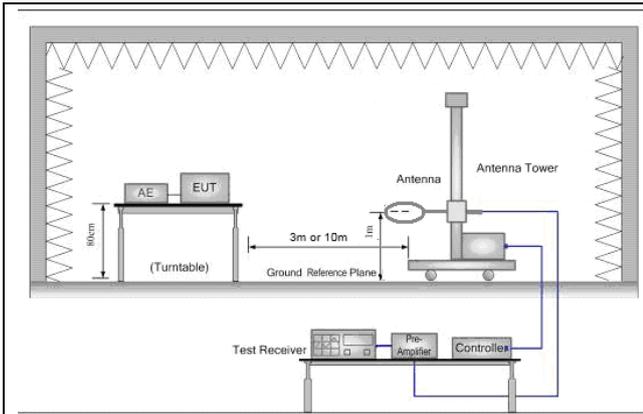


Figure 1. Below 30MHz

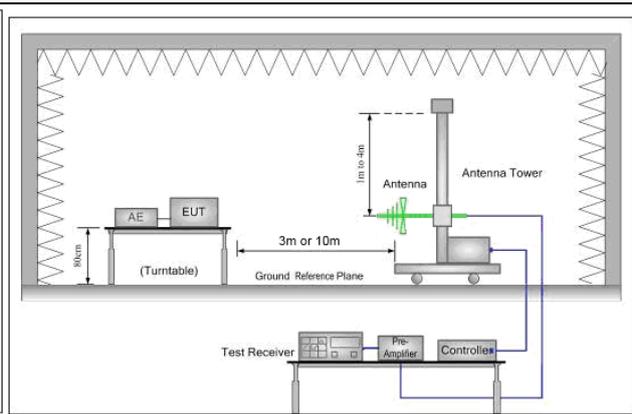


Figure 2. 30MHz to 1GHz

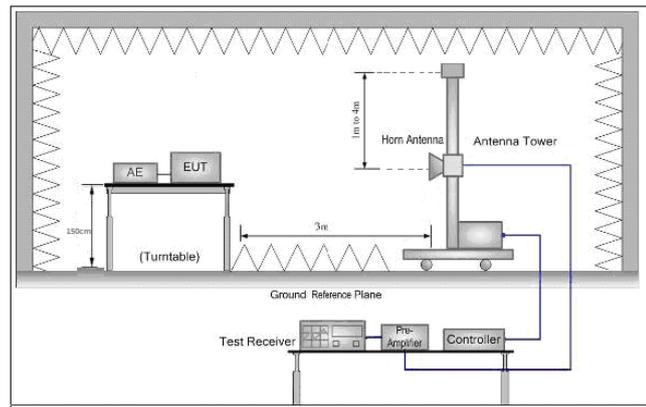


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. 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 $f > 1$ GHz ;
VBW \geq 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
On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$



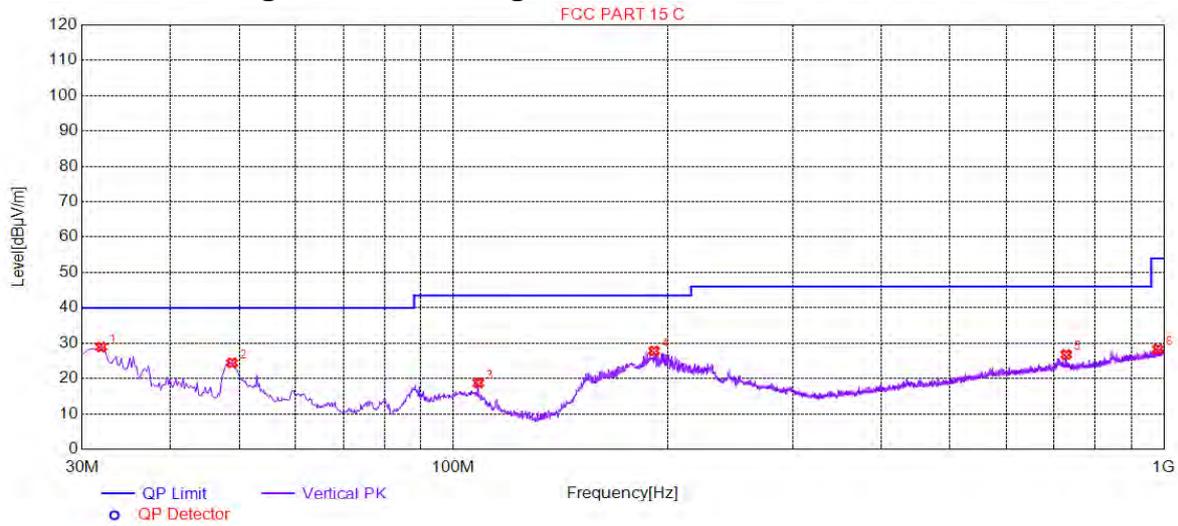
	<p>Where N 1 is number of type 1 pulses, L 1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle)</p> <p>f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test 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.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p> <p>i. Test the EUT in the lowest channel, the middle channel, the Highest channel</p> <p>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.</p> <p>k. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11B;</p> <p>6Mbps of rate is the worst case of 802.11G;</p> <p>MCS0 of rate is the worst case of 802.11N(HT20);</p> <p>MCS0 of rate is the worst case of 802.11N(HT40)</p> <p>MCS0 of rate is the worst case of 802.11AX(HT20).</p> <p>MCS0 of rate is the worst case of 802.11AX(HT40).</p> <p>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.</p>
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



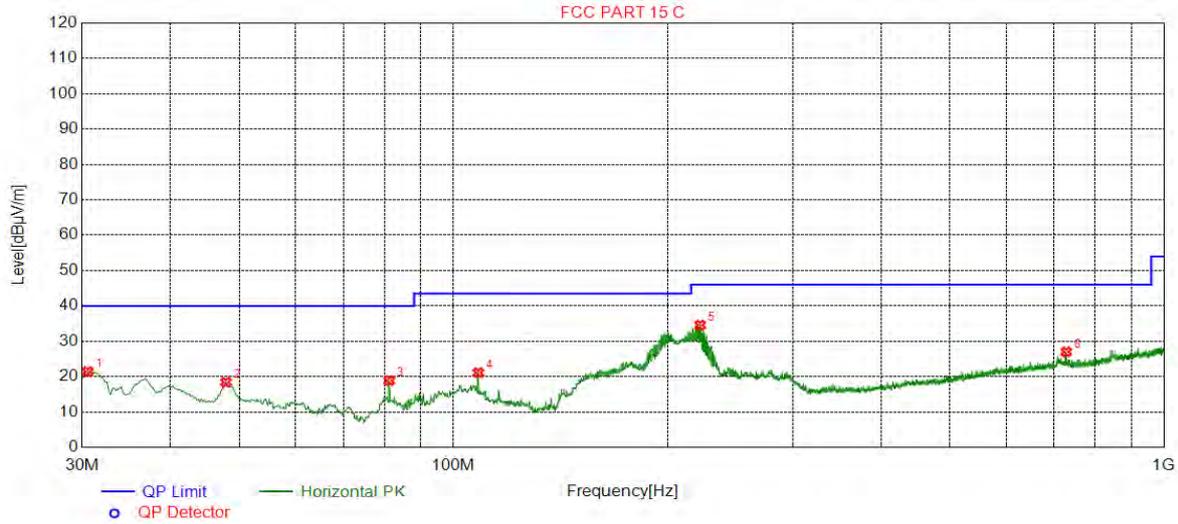
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.9404	28.92	-30.03	40.00	11.08	177	14	Vertical
2	48.8218	24.43	-30.38	40.00	15.57	274	14	Vertical
3	108.3917	18.76	-32.00	43.50	24.74	265	137	Vertical
4	191.6343	27.82	-32.08	43.50	15.68	247	19	Vertical
5	728.5397	26.79	-18.84	46.00	19.21	219	37	Vertical
6	980.7902	28.32	-15.06	54.00	25.68	196	220	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	30.5821	21.39	-30.07	40.00	18.61	227	249	Horizontal
2	47.8516	18.40	-30.39	40.00	21.60	106	258	Horizontal
3	81.2262	18.85	-35.85	40.00	21.15	235	252	Horizontal
4	108.3917	21.11	-32.00	43.50	22.39	106	252	Horizontal
5	222.4865	34.57	-30.64	46.00	11.43	165	288	Horizontal
6	728.7337	27.00	-18.83	46.00	19.00	170	255	Horizontal

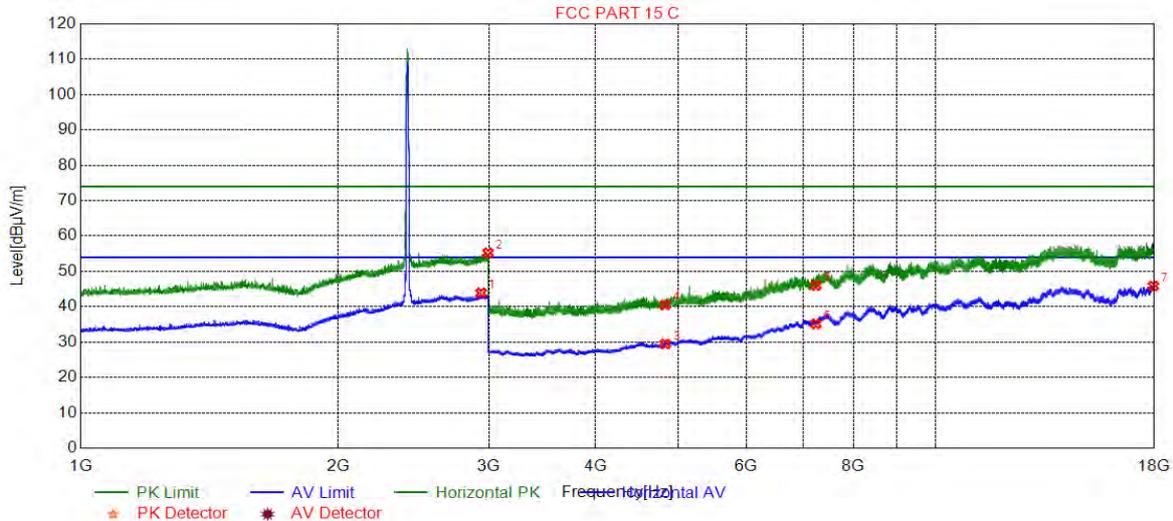


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4.9.2 Transmitter emission above 1GHz

4.9.2.1 CDD & MIMO

4.9.2.1.1 802.11B_Lowest Channel_ Horizontal



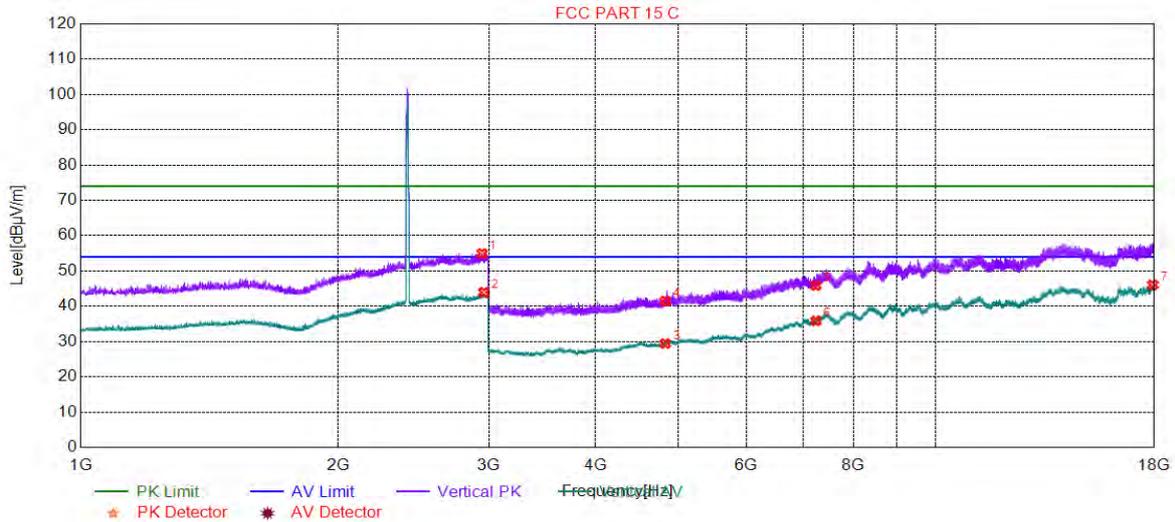
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.4844	43.91	9.54	54.00	10.09	176	302	Horizontal
2	2993.4984	55.25	9.48	74.00	18.75	204	342	Horizontal
3	4824.0000	29.48	-18.21	54.00	24.52	122	209	Horizontal
4	4824.0000	40.55	-18.21	74.00	33.45	134	344	Horizontal
5	7236.0000	46.04	-9.99	74.00	27.96	102	342	Horizontal
6	7236.0000	35.17	-9.99	54.00	18.83	161	292	Horizontal
7	17947.7474	45.88	0.70	54.00	8.12	138	292	Horizontal



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4.9.2.1.2 802.11B_Lowest Channel_Vertical



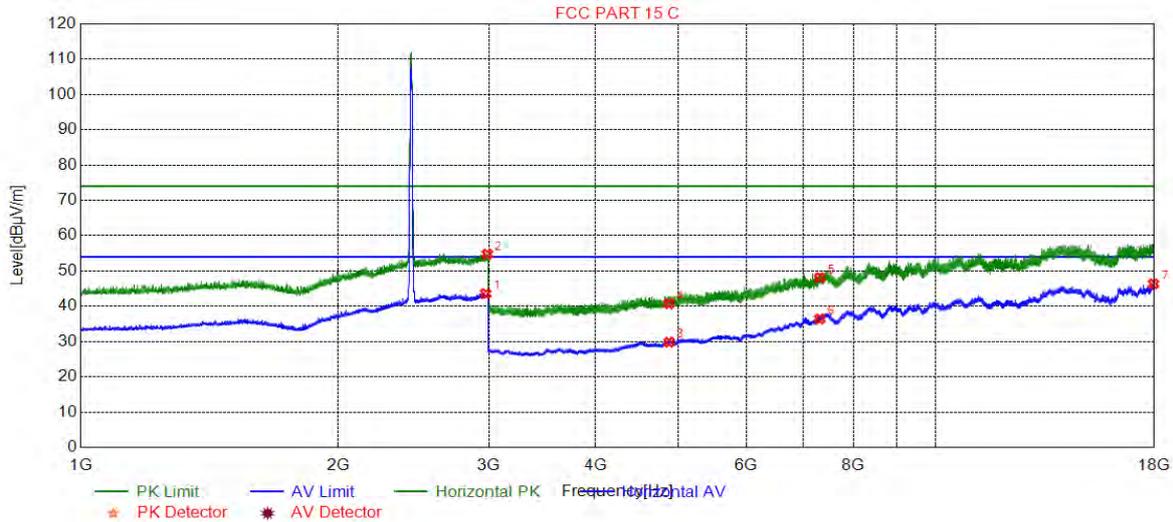
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.4866	54.95	9.64	74.00	19.05	156	280	Vertical
2	2960.4901	43.93	9.63	54.00	10.07	283	294	Vertical
3	4824.0000	29.42	-18.21	54.00	24.58	200	18	Vertical
4	4824.0000	41.48	-18.21	74.00	32.52	213	340	Vertical
5	7236.0000	45.87	-9.99	74.00	28.13	280	0	Vertical
6	7236.0000	35.85	-9.99	54.00	18.15	223	141	Vertical
7	17921.3461	46.06	0.70	54.00	7.94	204	190	Vertical



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4.9.2.1.3 802.11B_Middle Channel_Horizontal



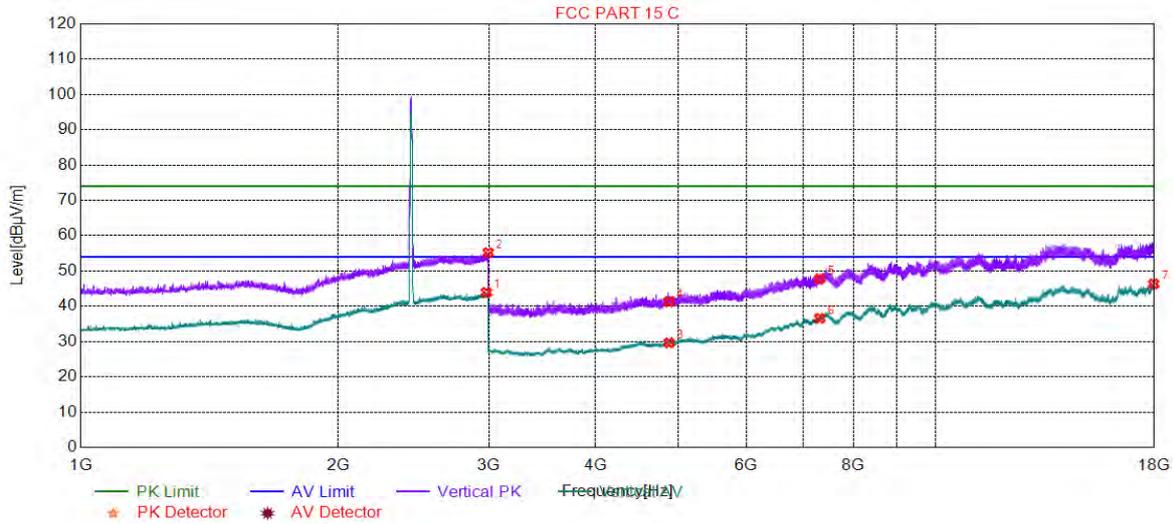
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.9935	43.57	9.57	54.00	10.43	244	2	Horizontal
2	2987.9970	54.76	9.51	74.00	19.24	204	40	Horizontal
3	4874.0000	29.81	-17.99	54.00	24.19	233	241	Horizontal
4	4874.0000	40.72	-17.99	74.00	33.28	142	72	Horizontal
5	7311.0000	48.12	-9.74	74.00	25.88	177	94	Horizontal
6	7311.0000	36.40	-9.74	54.00	17.60	203	243	Horizontal
7	17958.7479	46.33	0.71	54.00	7.67	228	243	Horizontal



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4.9.2.1.4 802.11B_Middle Channel_Vertical



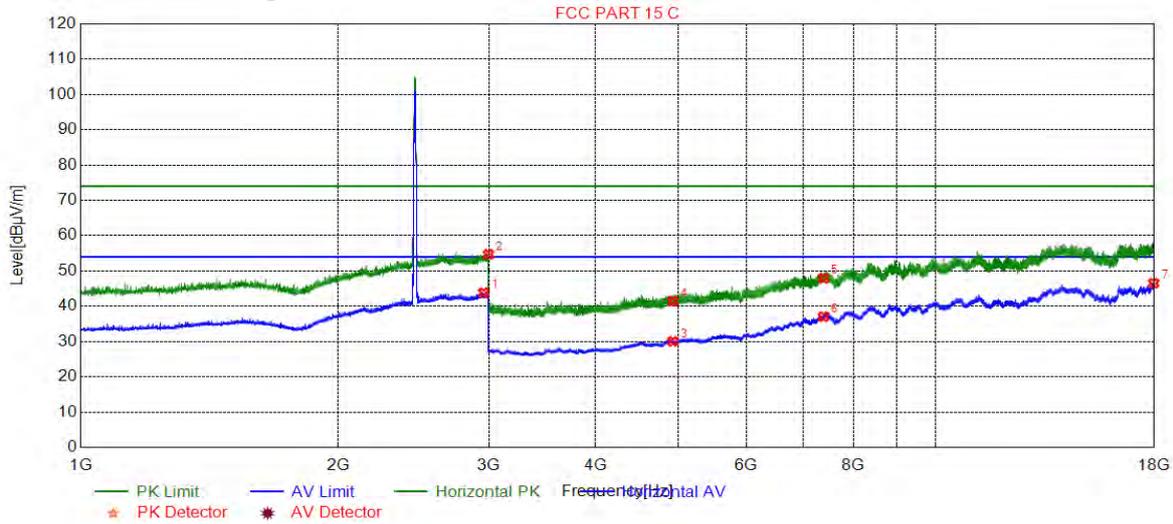
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.4951	43.92	9.54	54.00	10.08	187	291	Vertical
2	2994.9988	55.22	9.47	74.00	18.78	193	333	Vertical
3	4874.0000	29.64	-17.99	54.00	24.36	211	263	Vertical
4	4874.0000	41.28	-17.99	74.00	32.72	262	263	Vertical
5	7311.0000	47.73	-9.74	74.00	26.27	248	143	Vertical
6	7311.0000	36.59	-9.74	54.00	17.41	155	44	Vertical
7	17961.4981	46.31	0.71	54.00	7.69	285	292	Vertical



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4.9.2.1.5 802.11B_Highest Channel_Horizontal



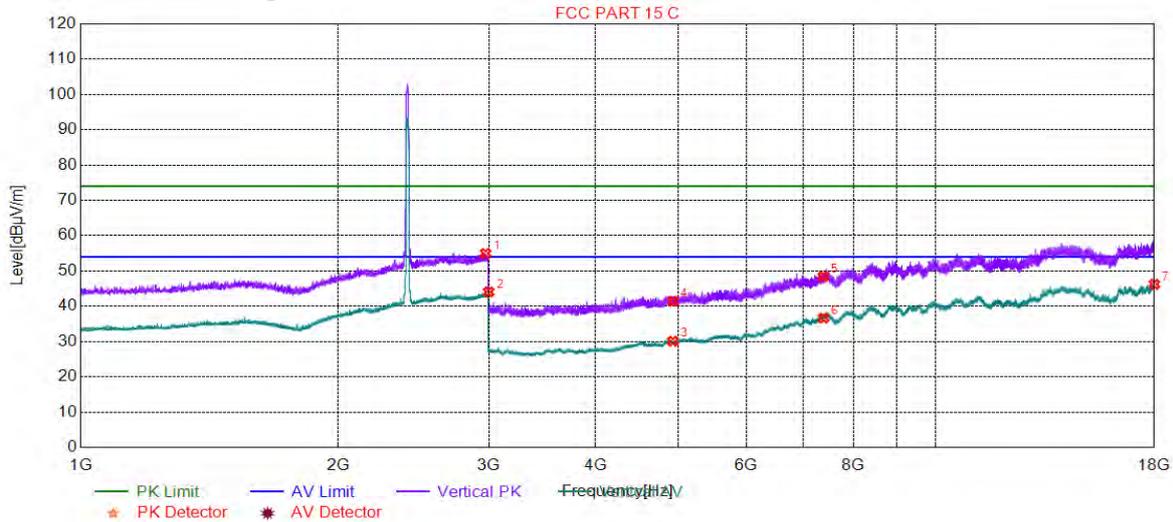
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2958.9897	43.82	9.64	54.00	10.18	240	328	Horizontal
2	2997.9995	54.70	9.46	74.00	19.30	144	0	Horizontal
3	4924.0000	30.05	-17.72	54.00	23.95	210	18	Horizontal
4	4924.0000	41.46	-17.72	74.00	32.54	126	288	Horizontal
5	7386.0000	47.91	-9.55	74.00	26.09	198	342	Horizontal
6	7386.0000	37.04	-9.55	54.00	16.96	228	193	Horizontal
7	17965.8983	46.54	0.71	54.00	7.46	108	46	Horizontal



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4.9.2.1.6 802.11B_Highest Channel_Vertical



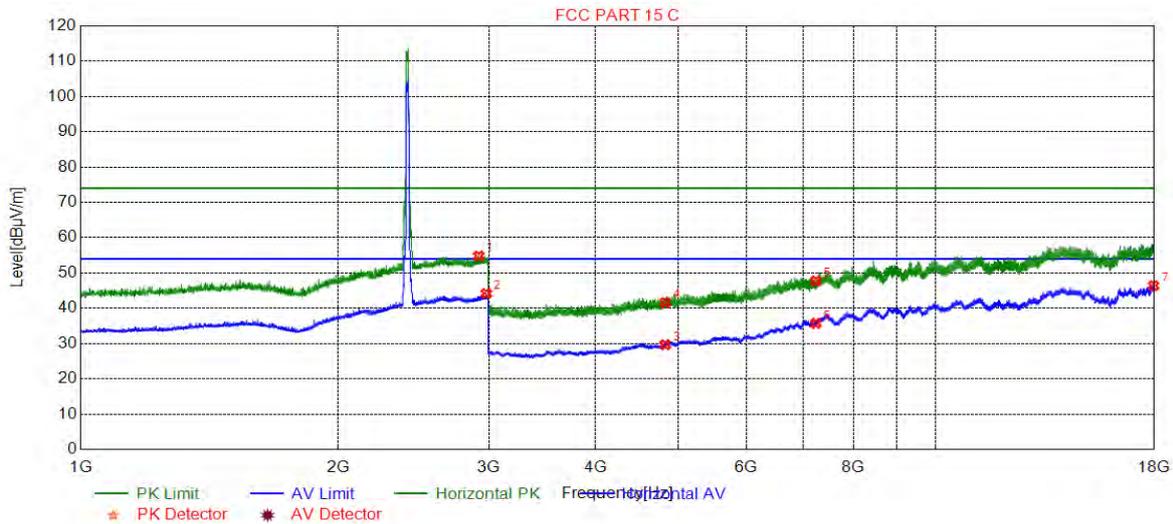
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.4934	54.99	9.57	74.00	19.01	289	32	Vertical
2	2998.9998	44.06	9.45	54.00	9.94	192	100	Vertical
3	4924.0000	30.09	-17.72	54.00	23.91	260	18	Vertical
4	4924.0000	41.40	-17.72	74.00	32.60	256	360	Vertical
5	7386.0000	48.42	-9.55	74.00	25.58	272	292	Vertical
6	7386.0000	36.65	-9.55	54.00	17.35	170	242	Vertical
7	17997.7999	46.23	0.72	54.00	7.77	178	242	Vertical



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4.9.2.1.7 802.11G_Lowest Channel_Horizontal



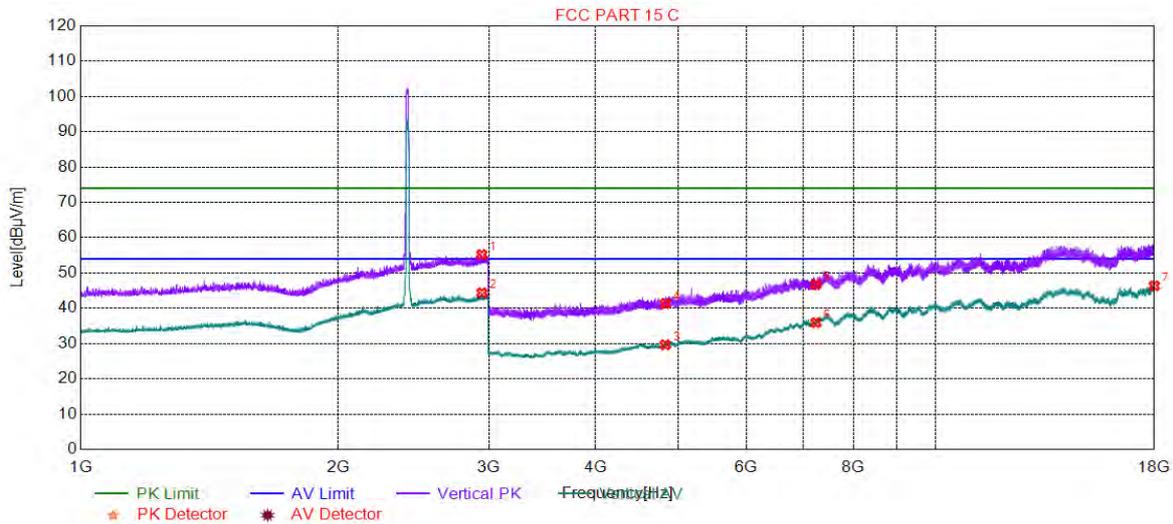
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2919.4799	54.82	9.35	74.00	19.18	142	66	Horizontal
2	2980.4951	44.19	9.54	54.00	9.81	154	122	Horizontal
3	4824.0000	29.67	-18.21	54.00	24.33	146	181	Horizontal
4	4824.0000	41.60	-18.21	74.00	32.40	134	127	Horizontal
5	7236.0000	47.75	-9.99	74.00	26.25	210	194	Horizontal
6	7236.0000	35.73	-9.99	54.00	18.27	153	194	Horizontal
7	17959.8480	46.38	0.71	54.00	7.62	174	342	Horizontal



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4.9.2.1.8 802.11G_Lowest Channel_Vertical



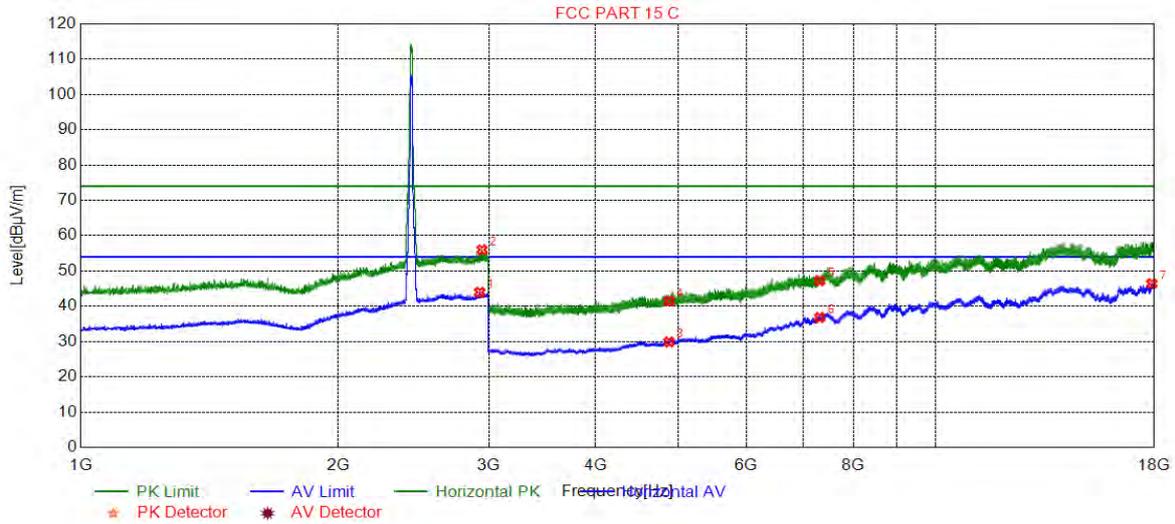
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.9860	55.21	9.62	74.00	18.79	210	73	Vertical
2	2944.9862	44.38	9.63	54.00	9.62	249	18	Vertical
3	4824.0000	29.66	-18.21	54.00	24.34	200	290	Vertical
4	4824.0000	41.29	-18.21	74.00	32.71	156	72	Vertical
5	7236.0000	46.72	-9.99	74.00	27.28	156	243	Vertical
6	7236.0000	35.91	-9.99	54.00	18.09	239	44	Vertical
7	17992.8496	46.35	0.72	54.00	7.65	247	243	Vertical



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4.9.2.1.9 802.11G_Middle Channel_Horizontal



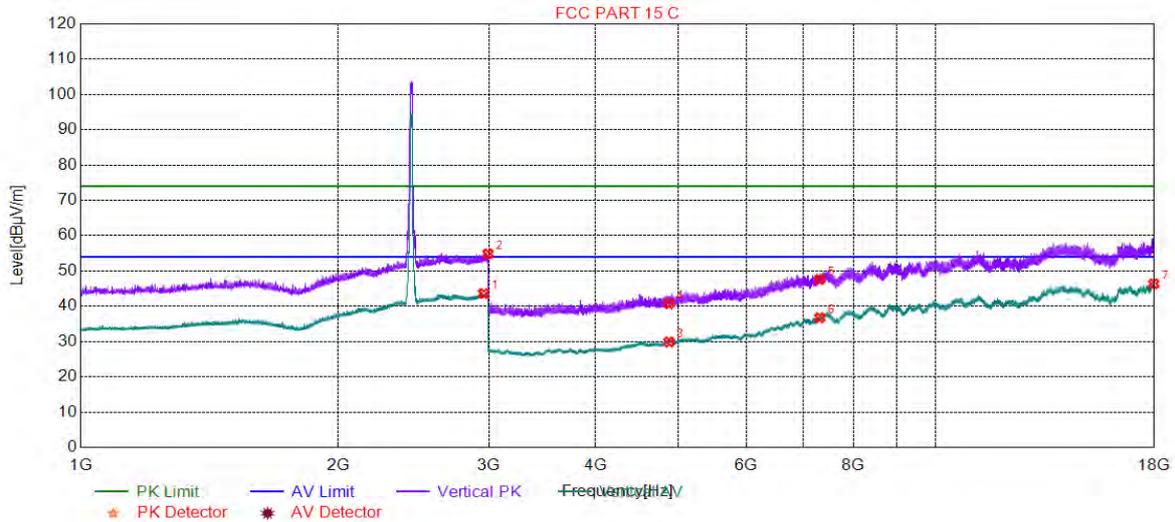
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2927.4819	43.94	9.44	54.00	10.06	193	3	Horizontal
2	2945.4864	56.00	9.63	74.00	18.00	139	40	Horizontal
3	4874.0000	29.88	-17.99	54.00	24.12	154	318	Horizontal
4	4874.0000	41.49	-17.99	74.00	32.51	152	345	Horizontal
5	7311.0000	47.19	-9.74	74.00	26.81	216	94	Horizontal
6	7311.0000	36.80	-9.74	54.00	17.20	215	1	Horizontal
7	17877.8939	46.41	0.40	54.00	7.59	226	45	Horizontal



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4.9.2.1.10 802.11G_Middle Channel_Vertical



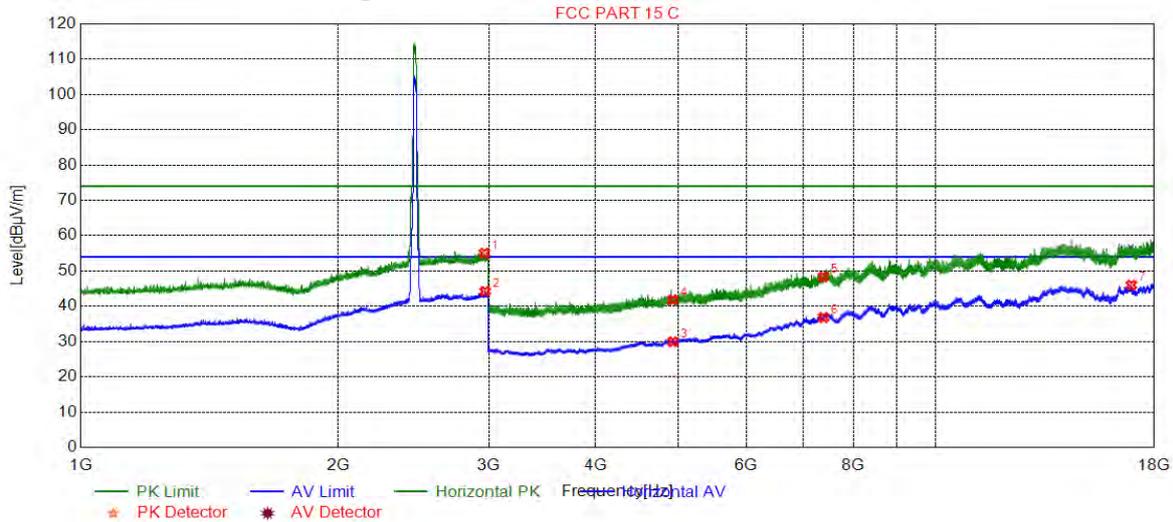
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2957.9895	43.61	9.64	54.00	10.39	173	114	Vertical
2	2994.4986	54.86	9.48	74.00	19.14	225	318	Vertical
3	4874.0000	29.87	-17.99	54.00	24.13	163	153	Vertical
4	4874.0000	40.71	-17.99	74.00	33.29	209	99	Vertical
5	7311.0000	47.58	-9.74	74.00	26.42	185	194	Vertical
6	7311.0000	36.75	-9.74	54.00	17.25	288	194	Vertical
7	17968.0984	46.34	0.71	54.00	7.66	286	243	Vertical



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4.9.2.1.11 802.11G_Highest Channel_Horizontal



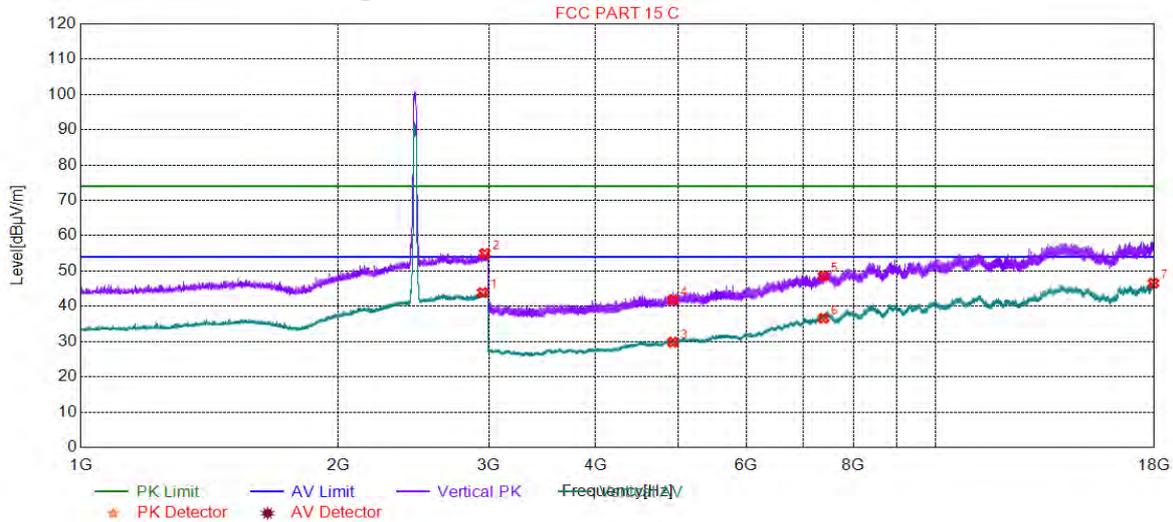
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.4911	55.03	9.61	74.00	18.97	104	55	Horizontal
2	2970.4926	44.22	9.59	54.00	9.78	153	28	Horizontal
3	4924.0000	29.93	-17.72	54.00	24.07	247	360	Horizontal
4	4924.0000	41.82	-17.72	74.00	32.18	198	318	Horizontal
5	7386.0000	48.35	-9.55	74.00	25.65	232	143	Horizontal
6	7386.0000	36.78	-9.55	54.00	17.22	225	143	Horizontal
7	16914.2457	45.99	1.04	54.00	8.01	172	143	Horizontal



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4.9.2.1.12 802.11G_Highest Channel_Vertical



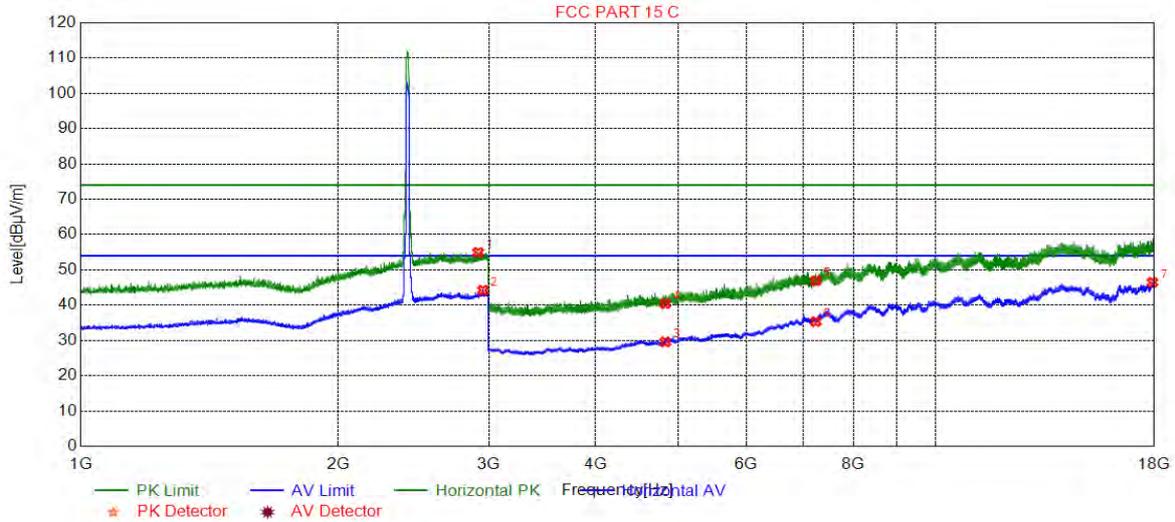
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.4876	43.87	9.68	54.00	10.13	202	239	Vertical
2	2966.9917	54.95	9.60	74.00	19.05	155	198	Vertical
3	4924.0000	29.79	-17.72	54.00	24.21	151	262	Vertical
4	4924.0000	41.79	-17.72	74.00	32.21	235	18	Vertical
5	7386.0000	48.55	-9.55	74.00	25.45	159	292	Vertical
6	7386.0000	36.59	-9.55	54.00	17.41	255	143	Vertical
7	17952.1476	46.54	0.71	54.00	7.46	258	292	Vertical



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4.9.2.1.13 802.11N20MIMO_Lowest Channel_Horizontal



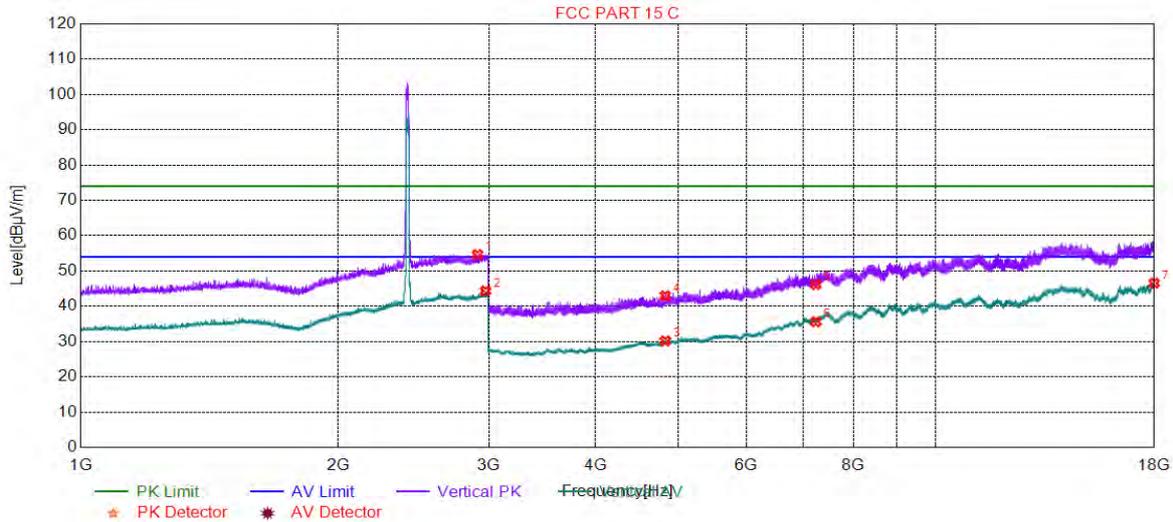
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2914.9787	54.95	9.30	74.00	19.05	211	246	Horizontal
2	2952.9882	44.22	9.67	54.00	9.78	208	39	Horizontal
3	4824.0000	29.61	-18.21	54.00	24.39	246	126	Horizontal
4	4824.0000	40.40	-18.21	74.00	33.60	110	181	Horizontal
5	7236.0000	46.87	-9.99	74.00	27.13	248	193	Horizontal
6	7236.0000	35.32	-9.99	54.00	18.68	121	242	Horizontal
7	17907.5954	46.48	0.69	54.00	7.52	112	292	Horizontal



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4.9.2.1.14 802.11N20MIMO_Lowest Channel_Vertical



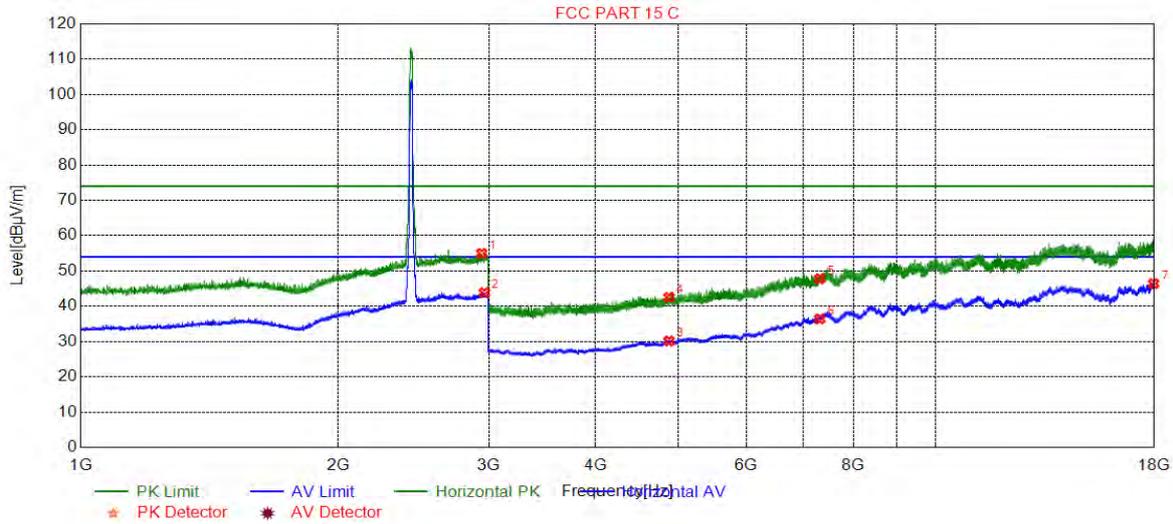
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2909.4774	54.64	9.24	74.00	19.36	238	169	Vertical
2	2973.4934	44.32	9.57	54.00	9.68	256	292	Vertical
3	4824.0000	30.17	-18.21	54.00	23.83	238	98	Vertical
4	4824.0000	42.96	-18.21	74.00	31.04	215	181	Vertical
5	7236.0000	46.15	-9.99	74.00	27.85	246	242	Vertical
6	7236.0000	35.60	-9.99	54.00	18.40	229	143	Vertical
7	17988.4494	46.53	0.72	54.00	7.47	231	292	Vertical



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4.9.2.1.15 802.11N20MIMO_Middle Channel_Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.4856	55.00	9.60	74.00	19.00	210	274	Horizontal
2	2964.4911	43.86	9.61	54.00	10.14	161	139	Horizontal
3	4874.0000	30.15	-17.99	54.00	23.85	135	345	Horizontal
4	4874.0000	42.52	-17.99	74.00	31.48	243	100	Horizontal
5	7311.0000	47.78	-9.74	74.00	26.22	218	94	Horizontal
6	7311.0000	36.38	-9.74	54.00	17.62	131	142	Horizontal
7	17959.8480	46.42	0.71	54.00	7.58	240	292	Horizontal



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