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#### 4.8.1.1.6 802.11G\_CH6

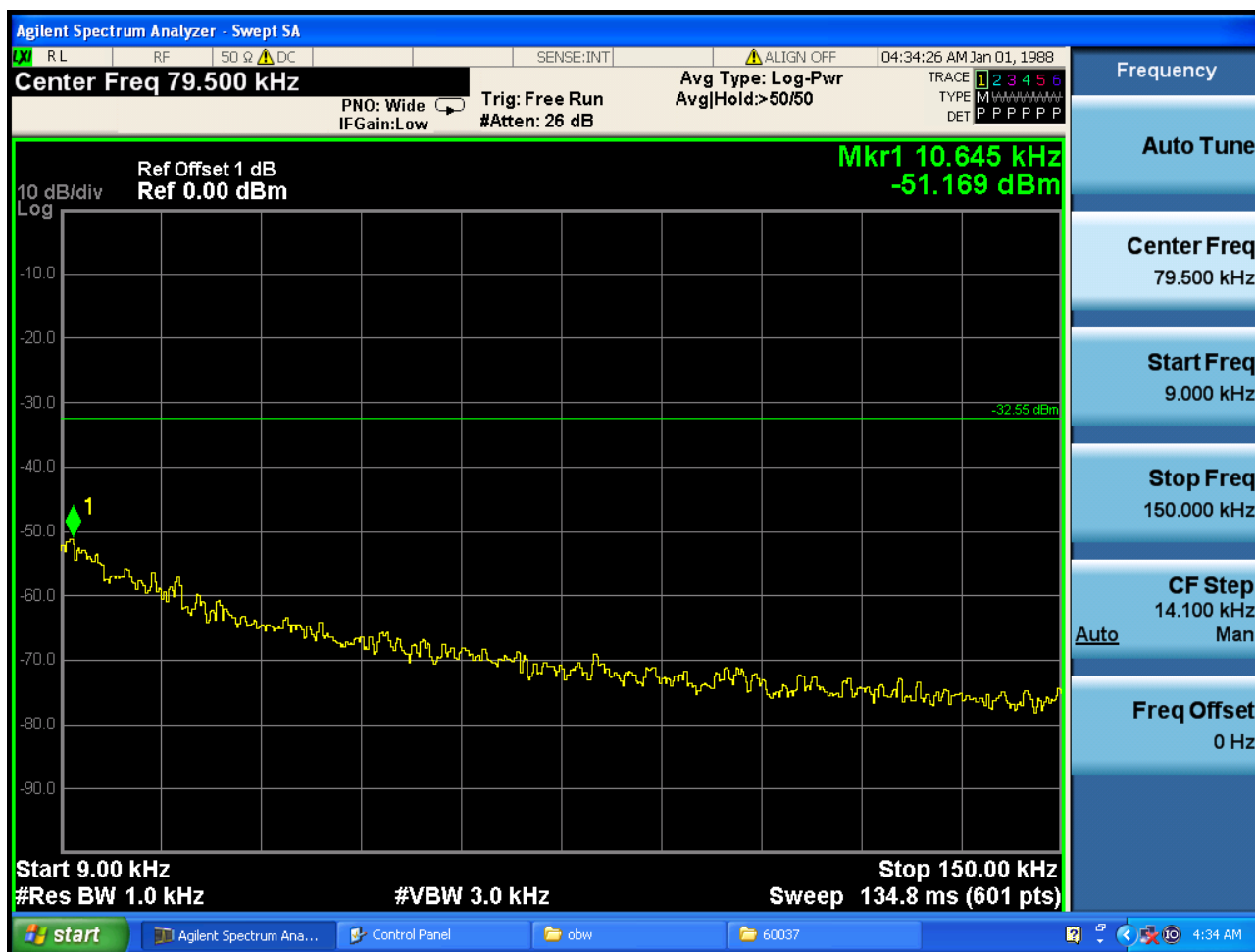


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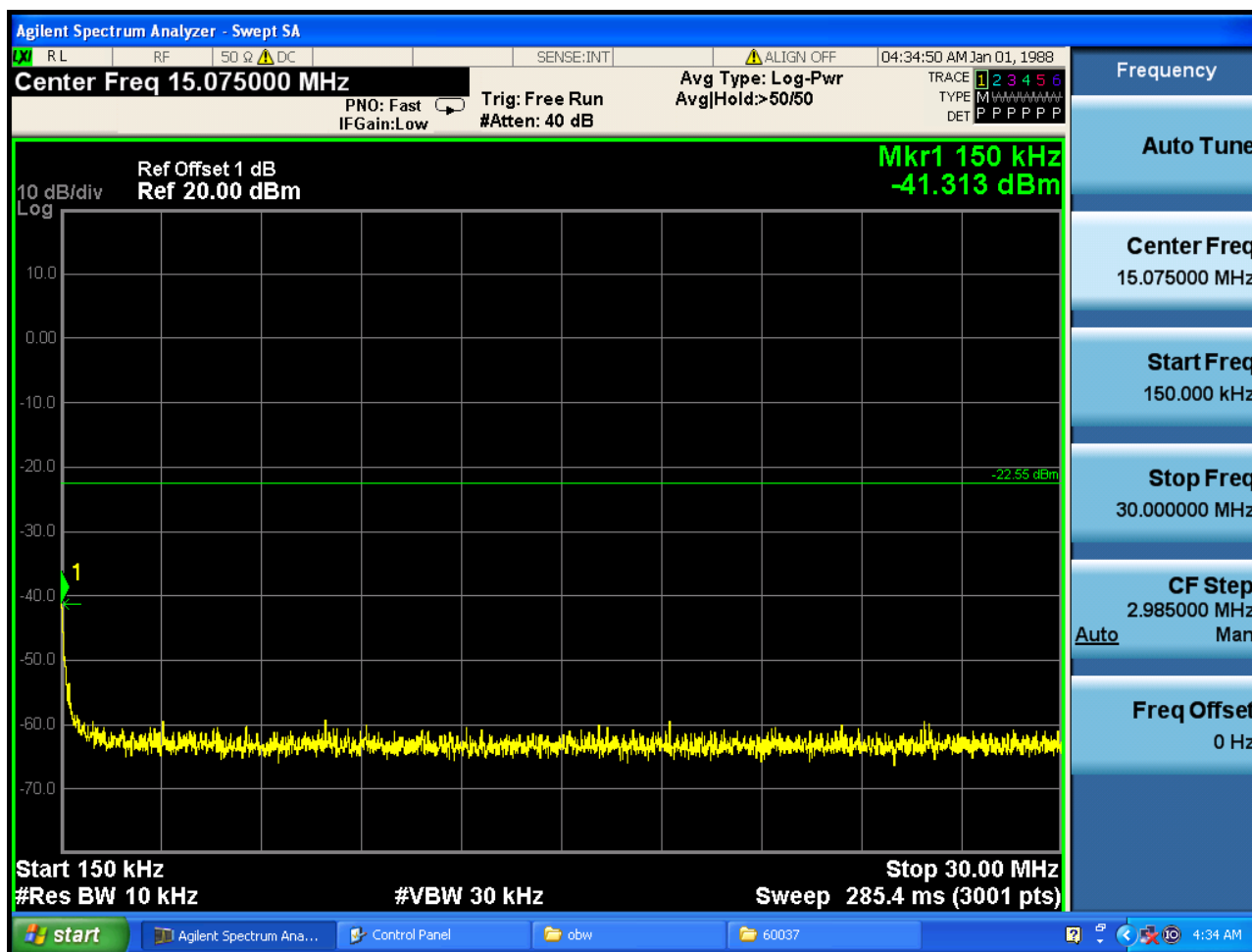
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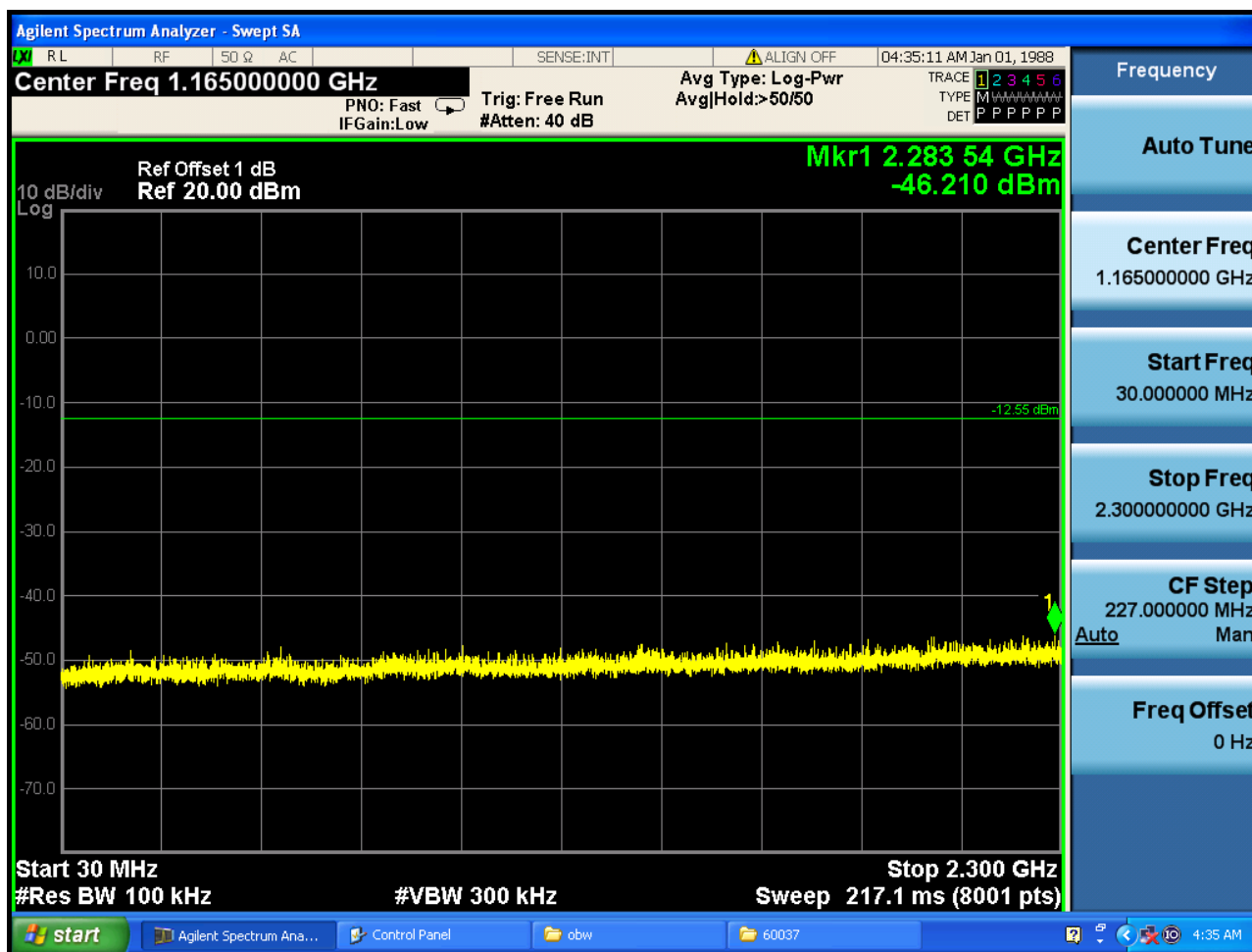


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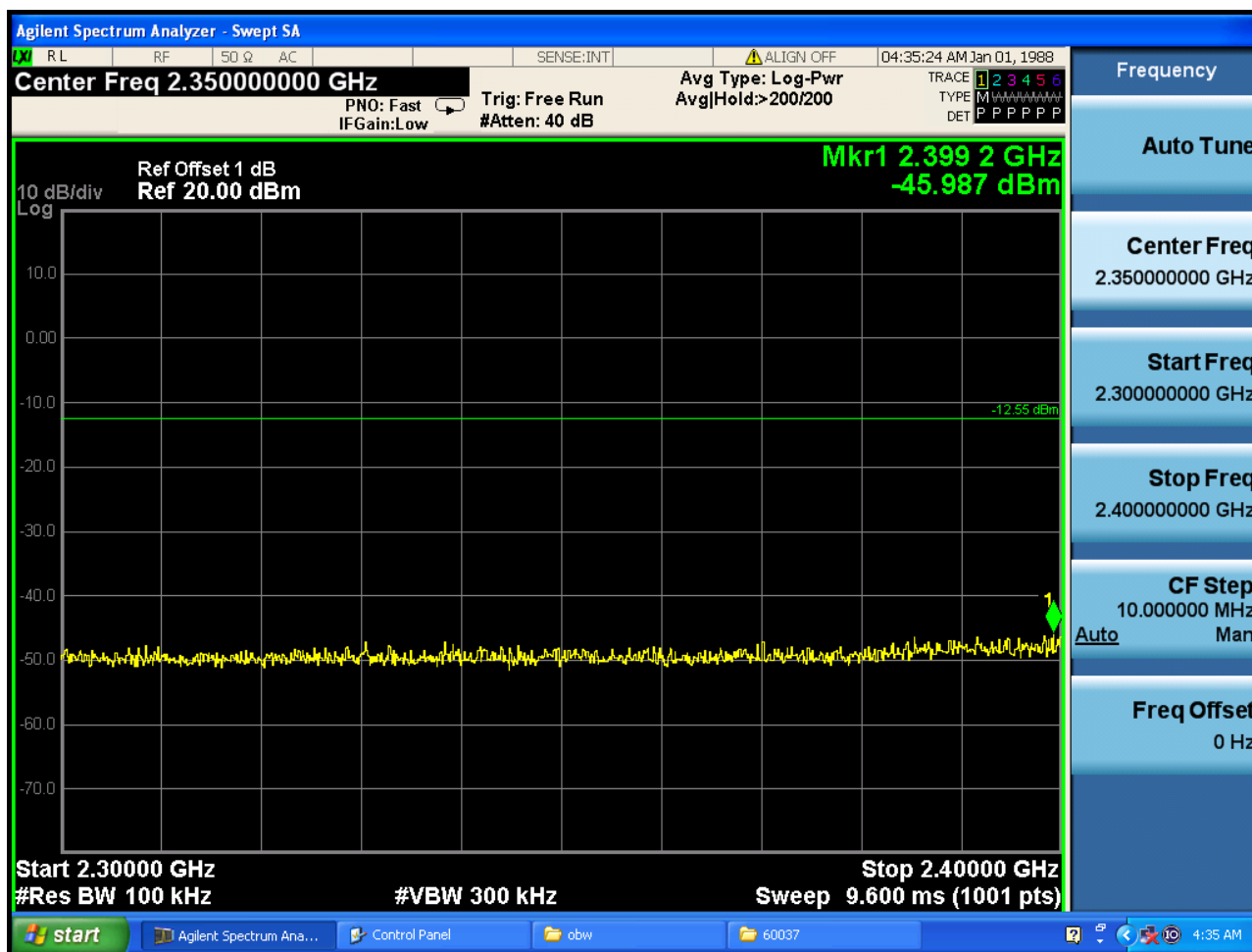


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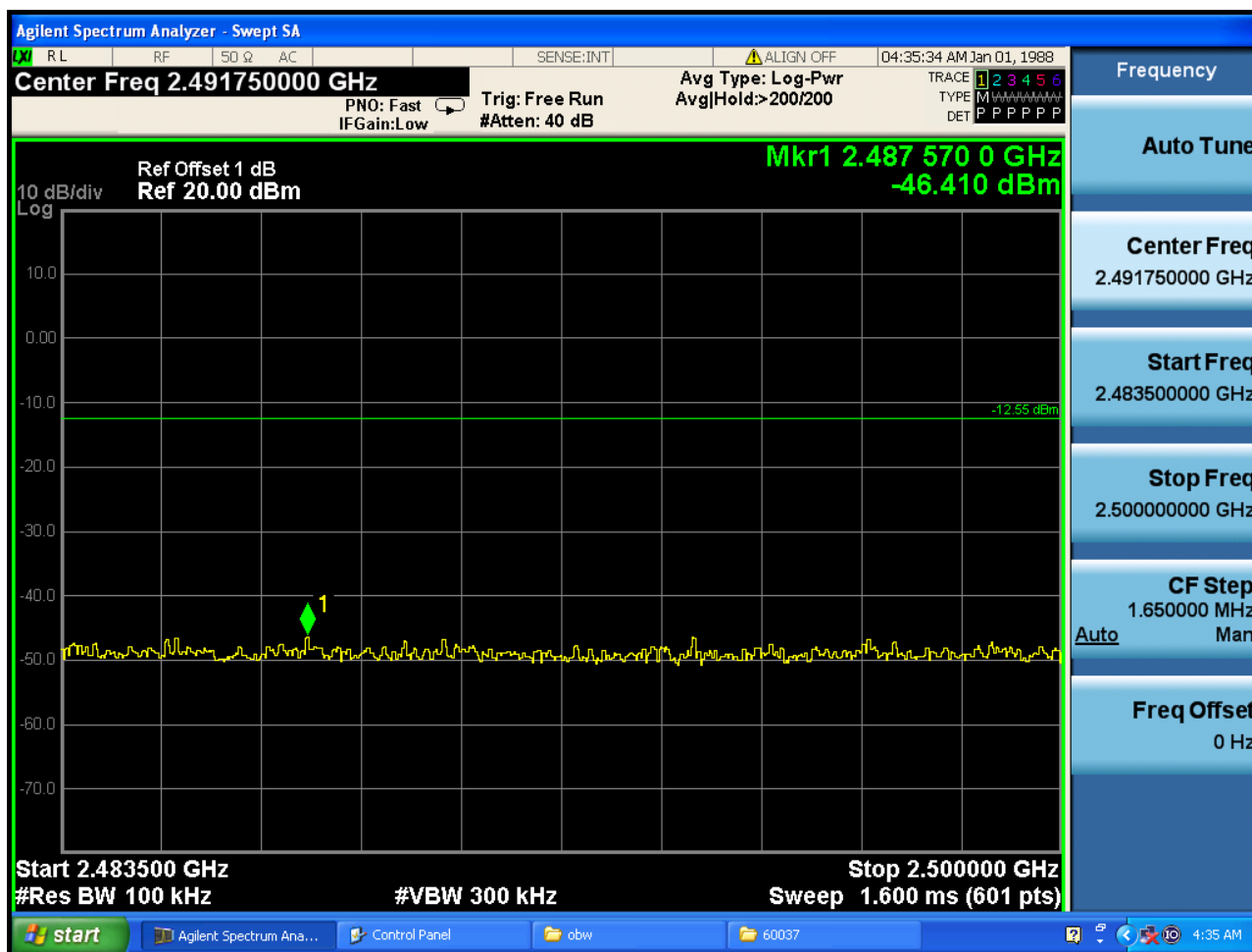
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#### 4.8.1.1.7 802.11G\_CH11



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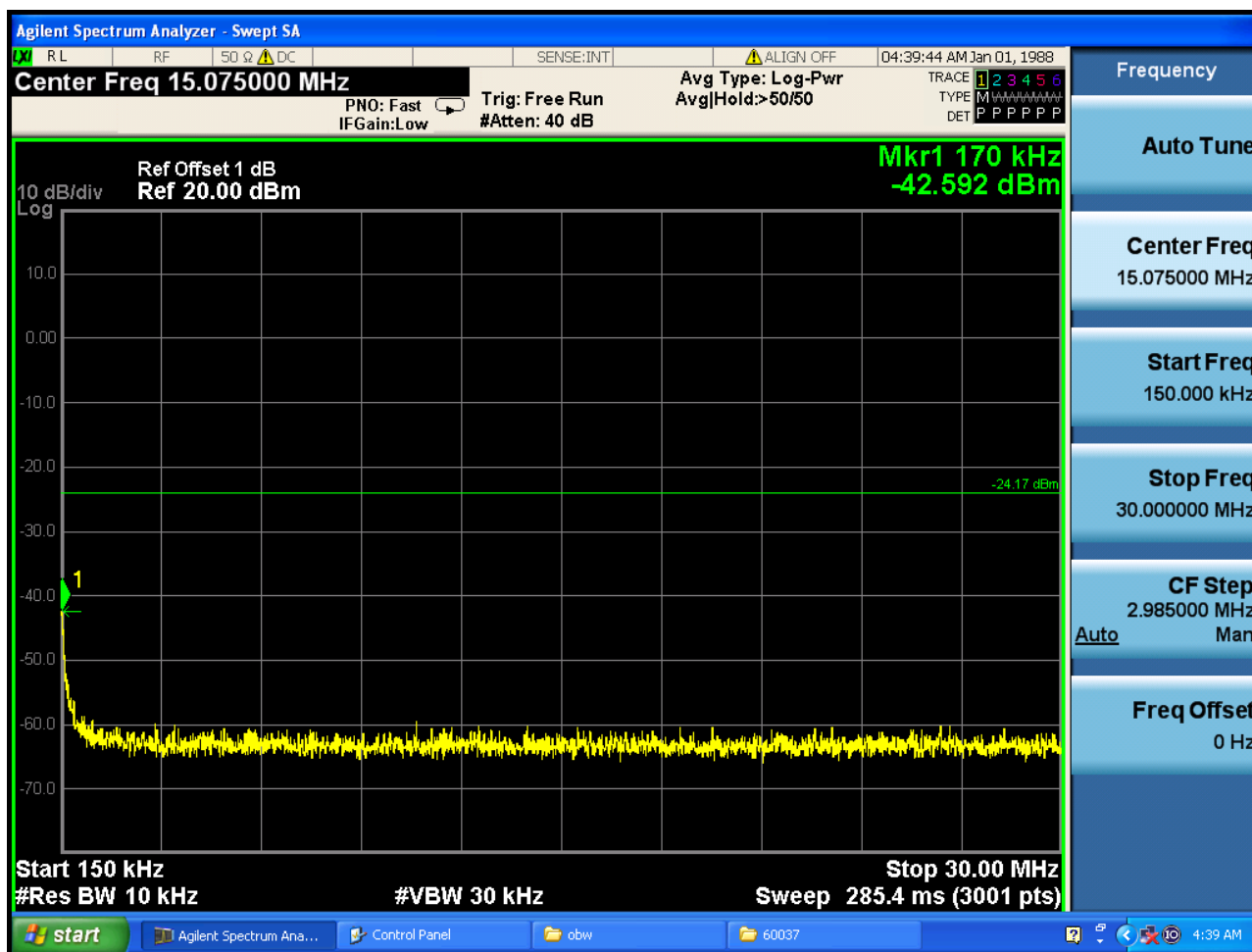


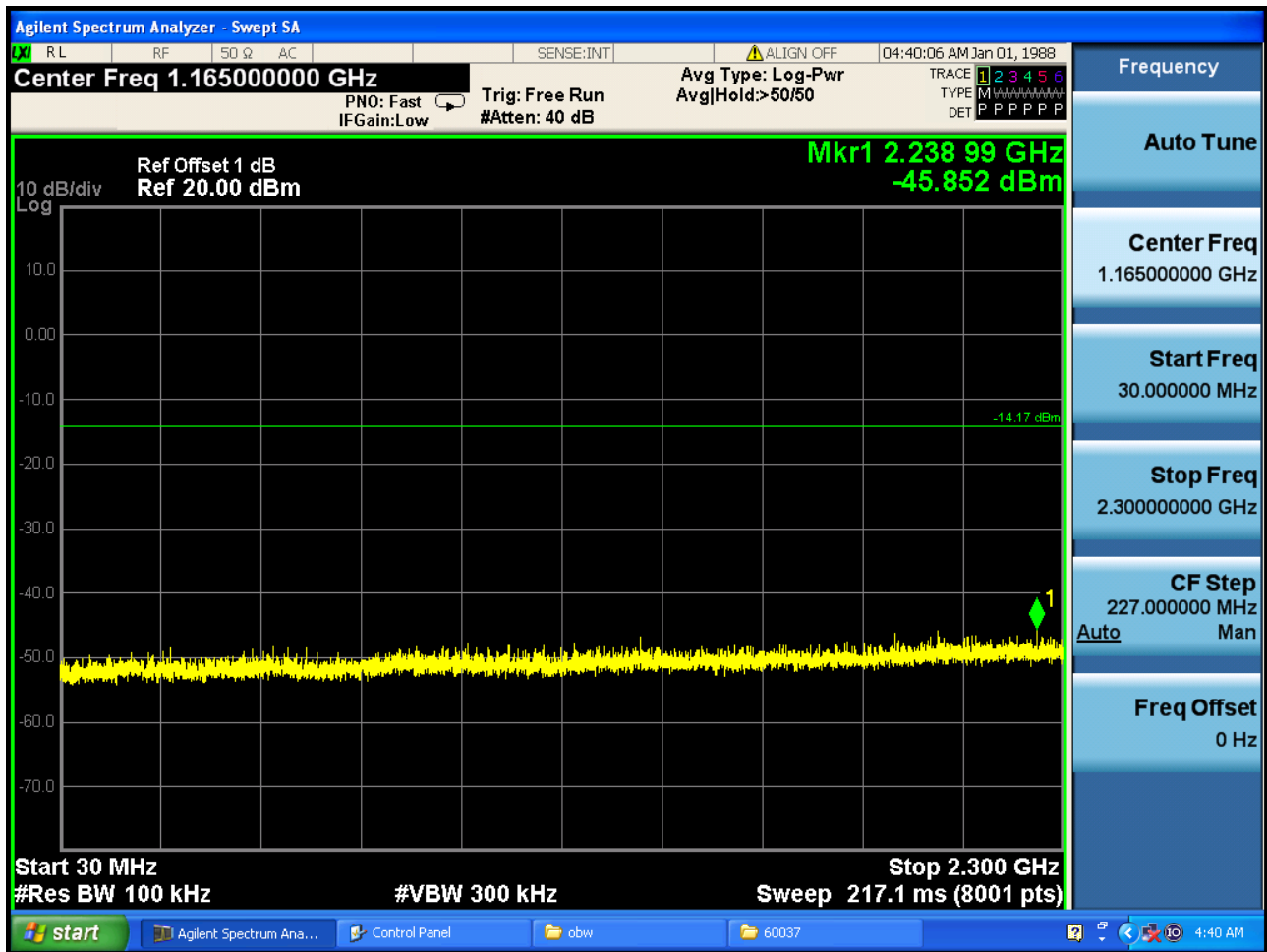
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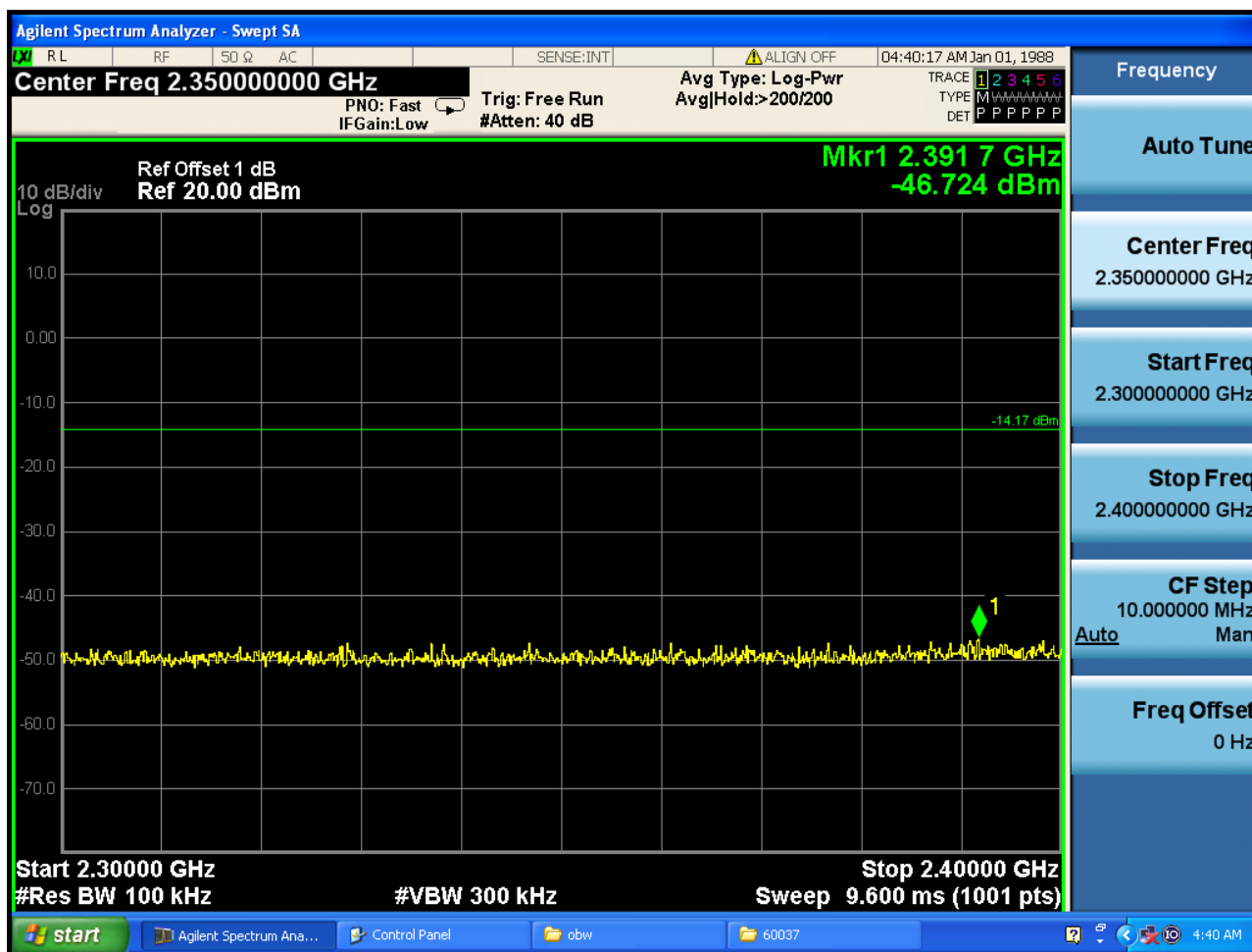
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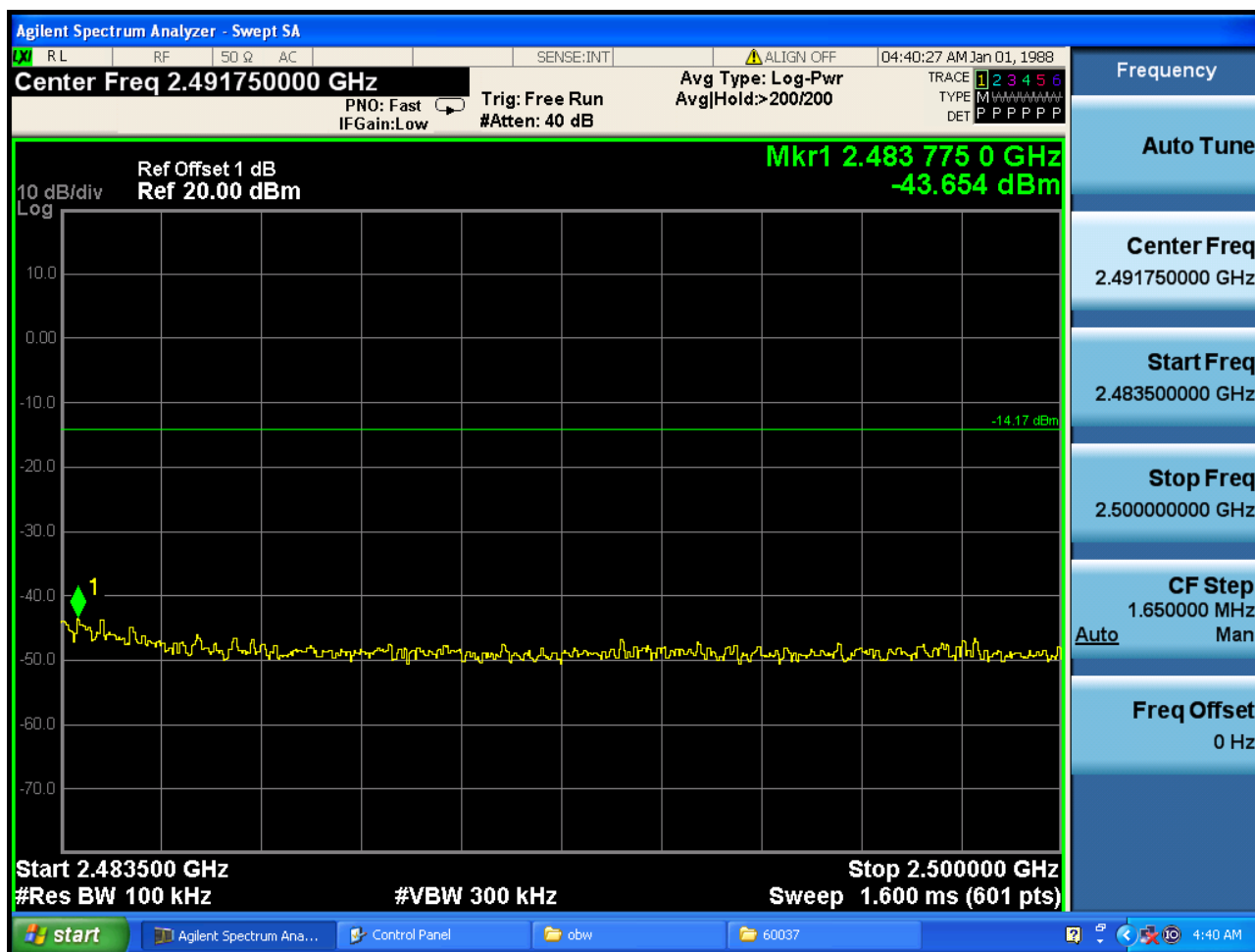
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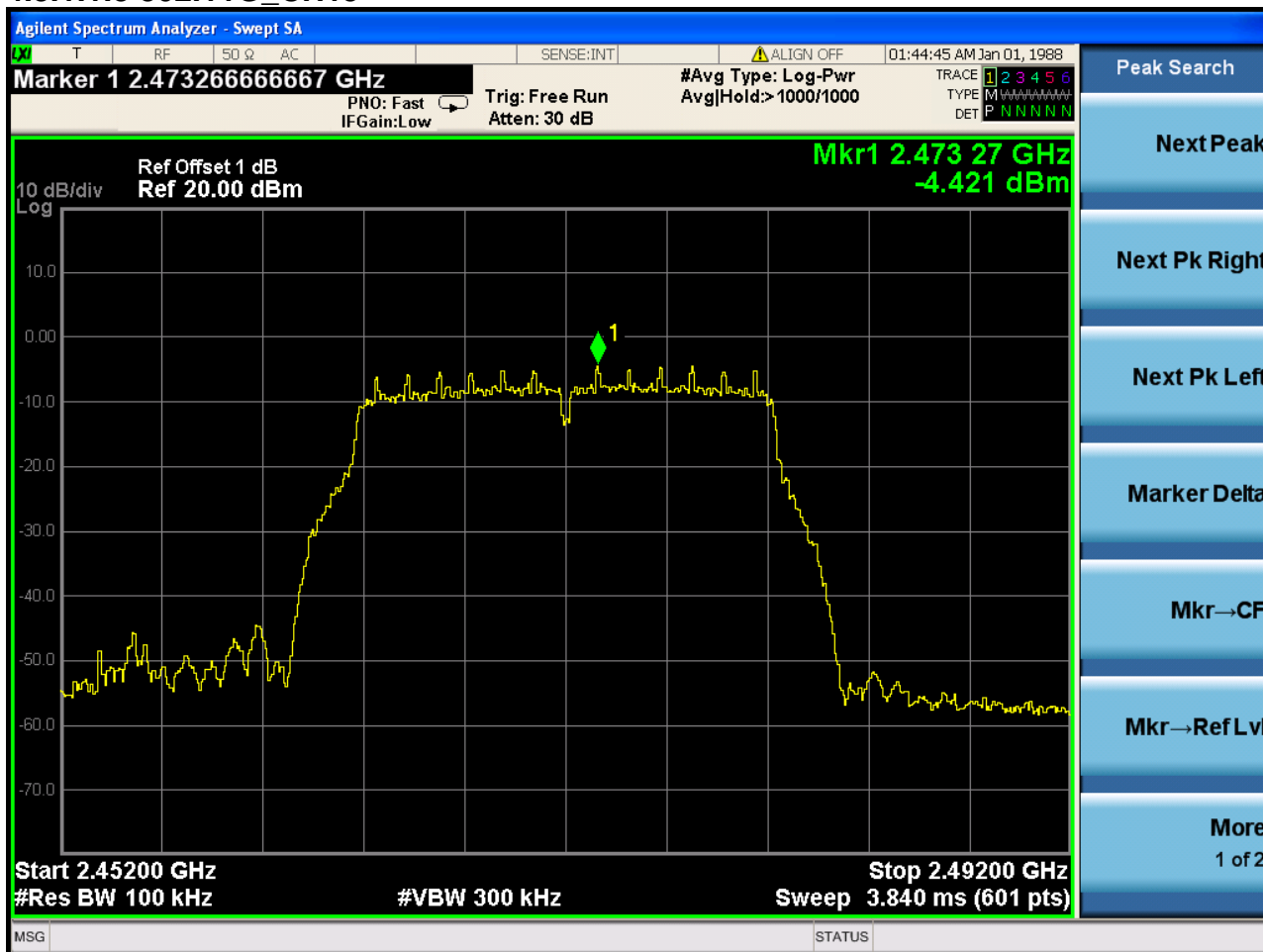
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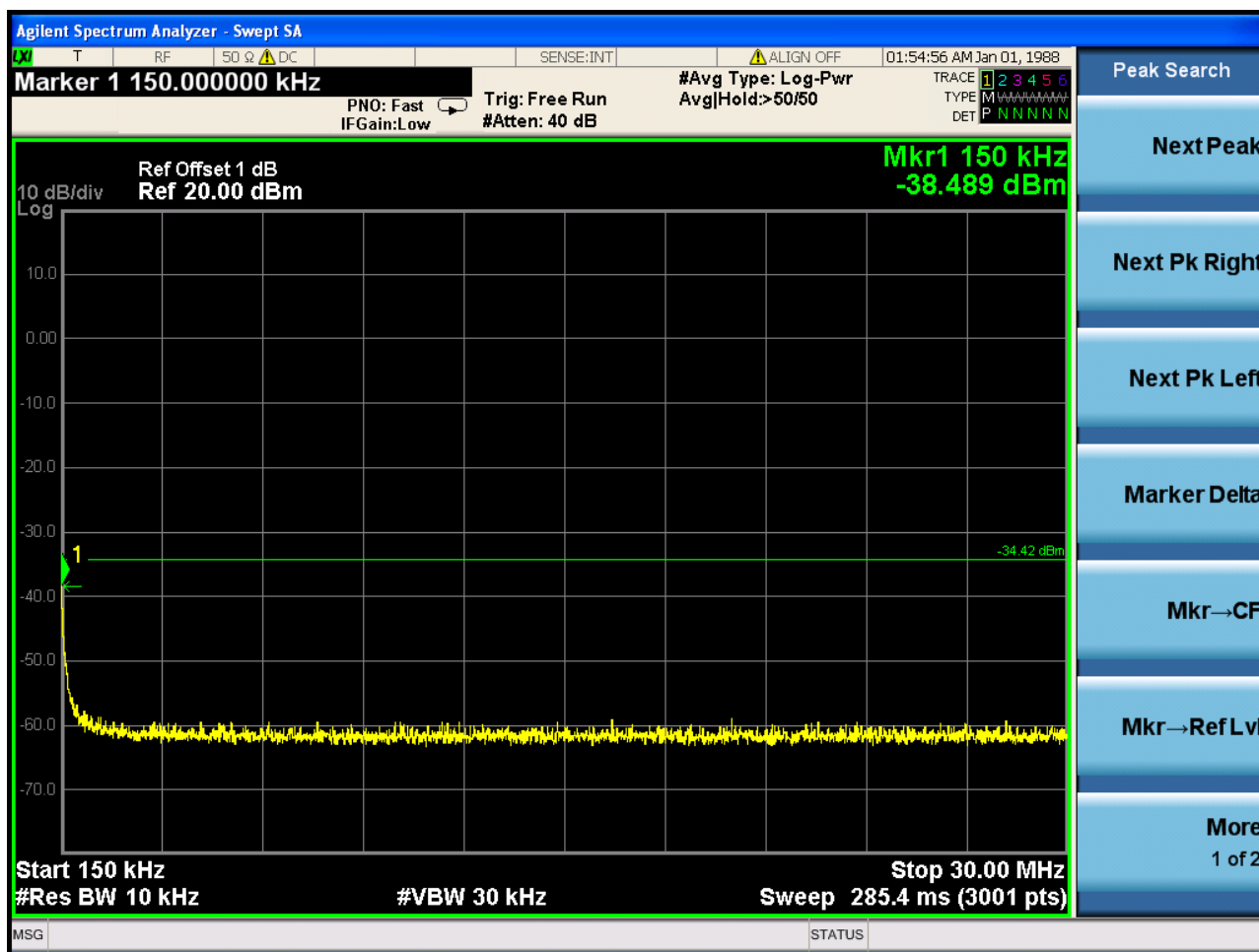


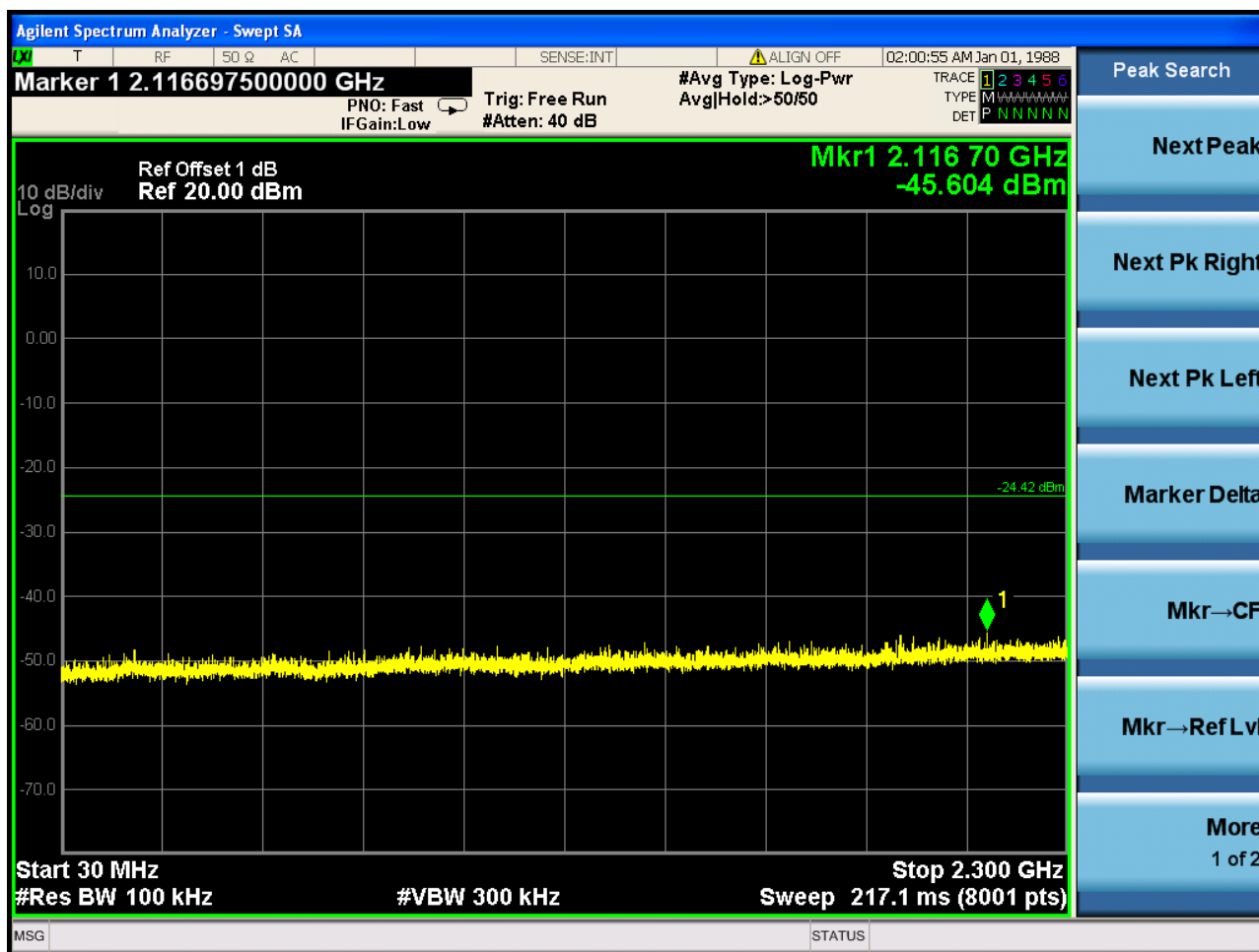
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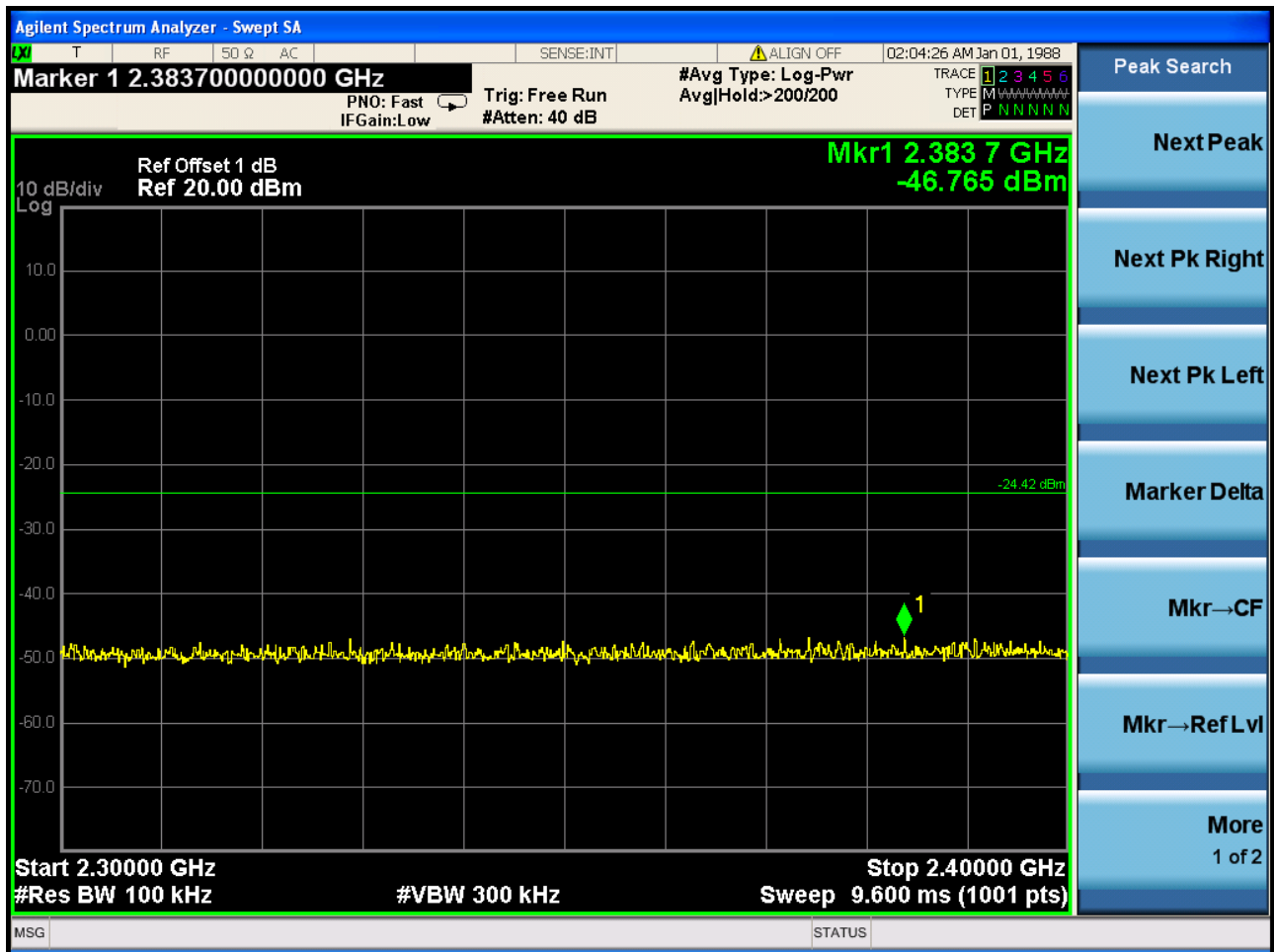




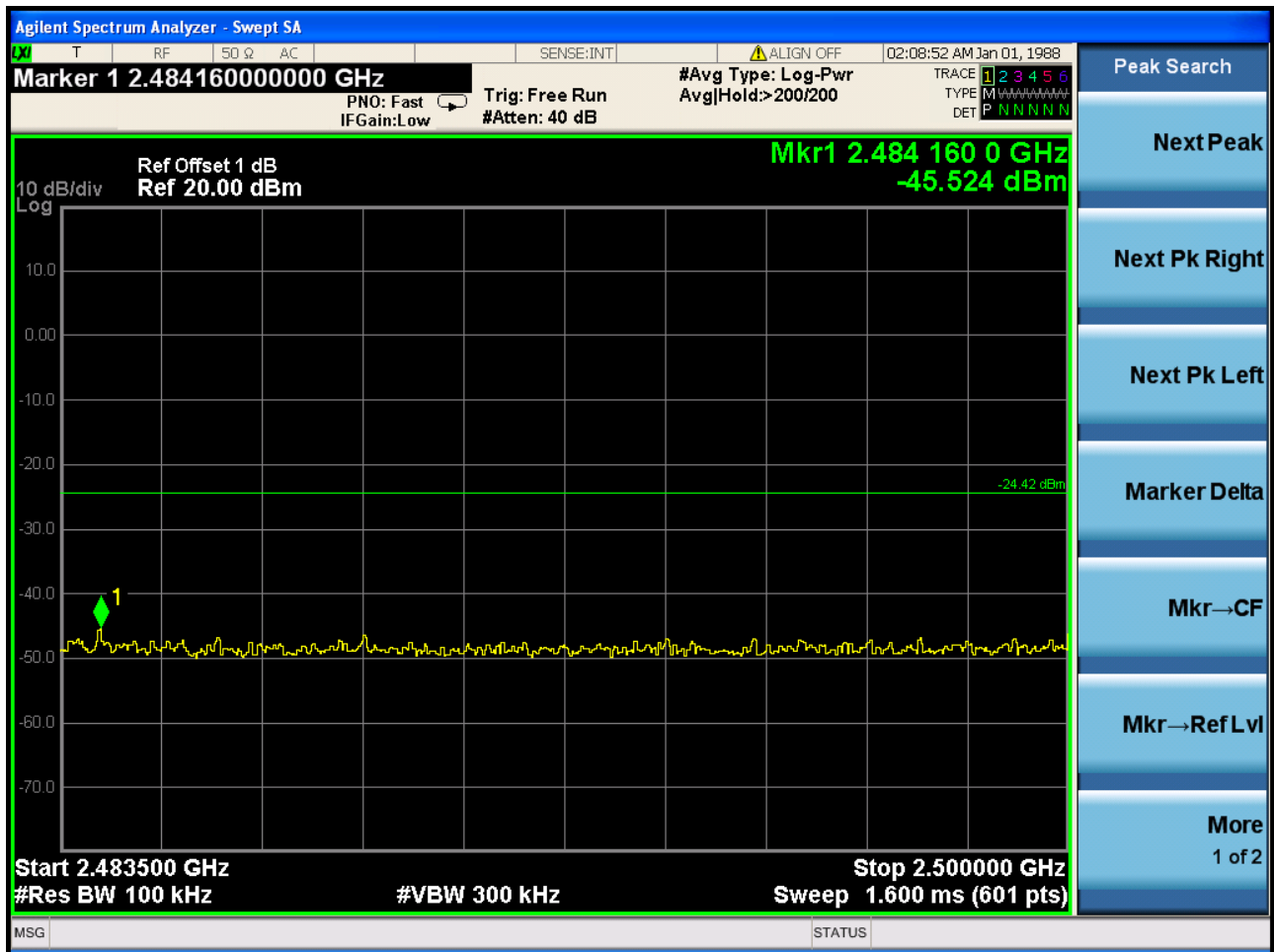














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#### 4.8.1.1.9 802.11N20\_CH1



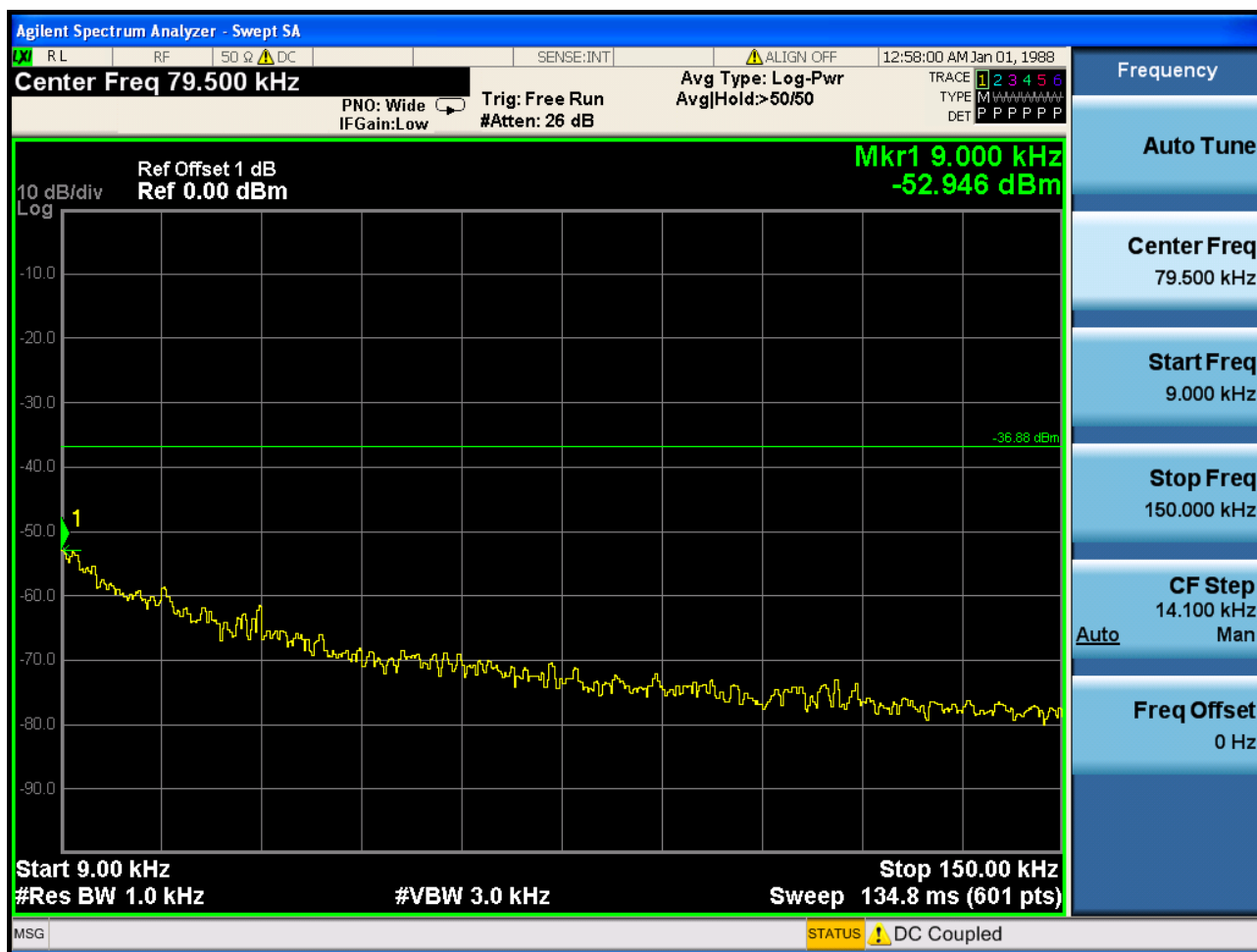
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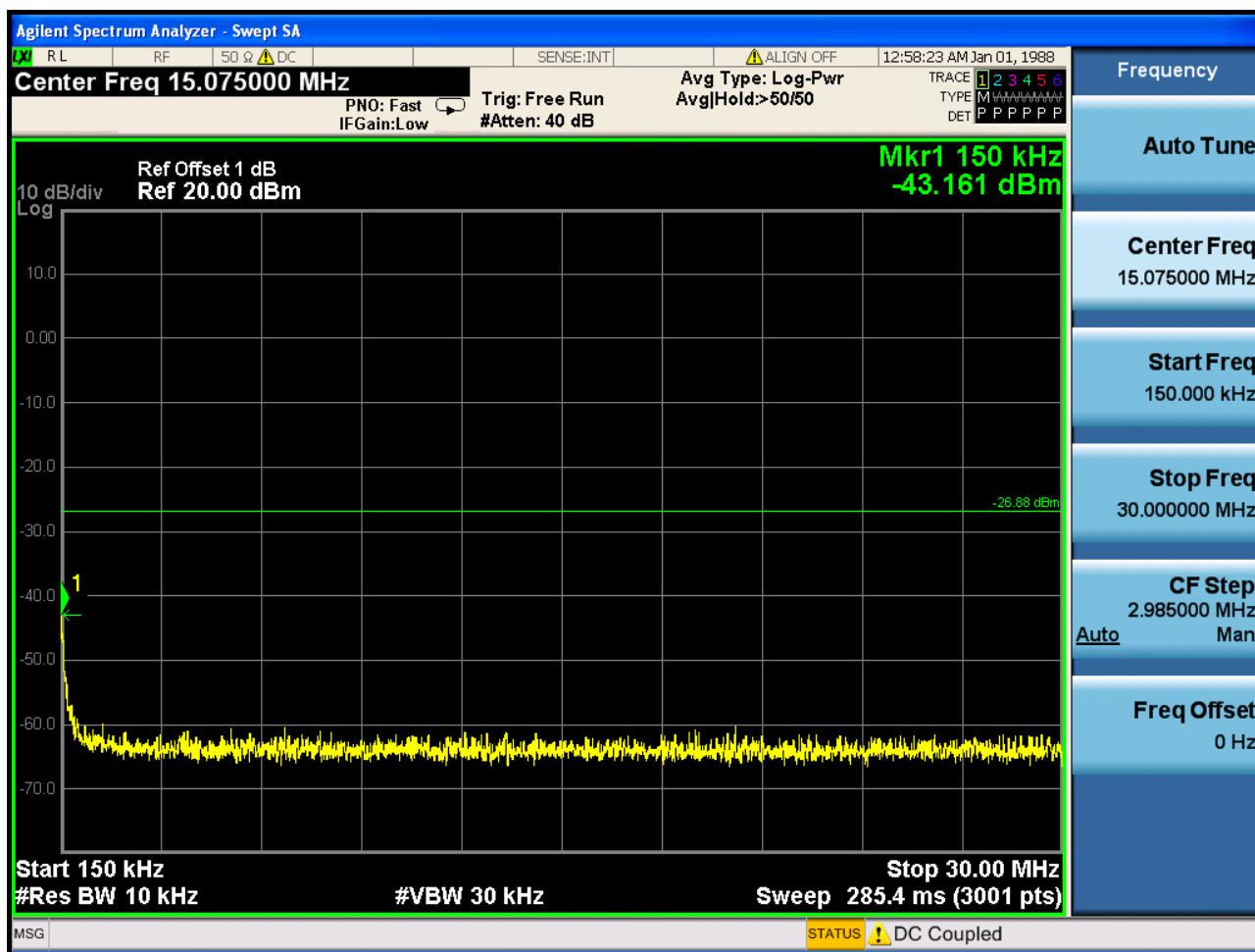
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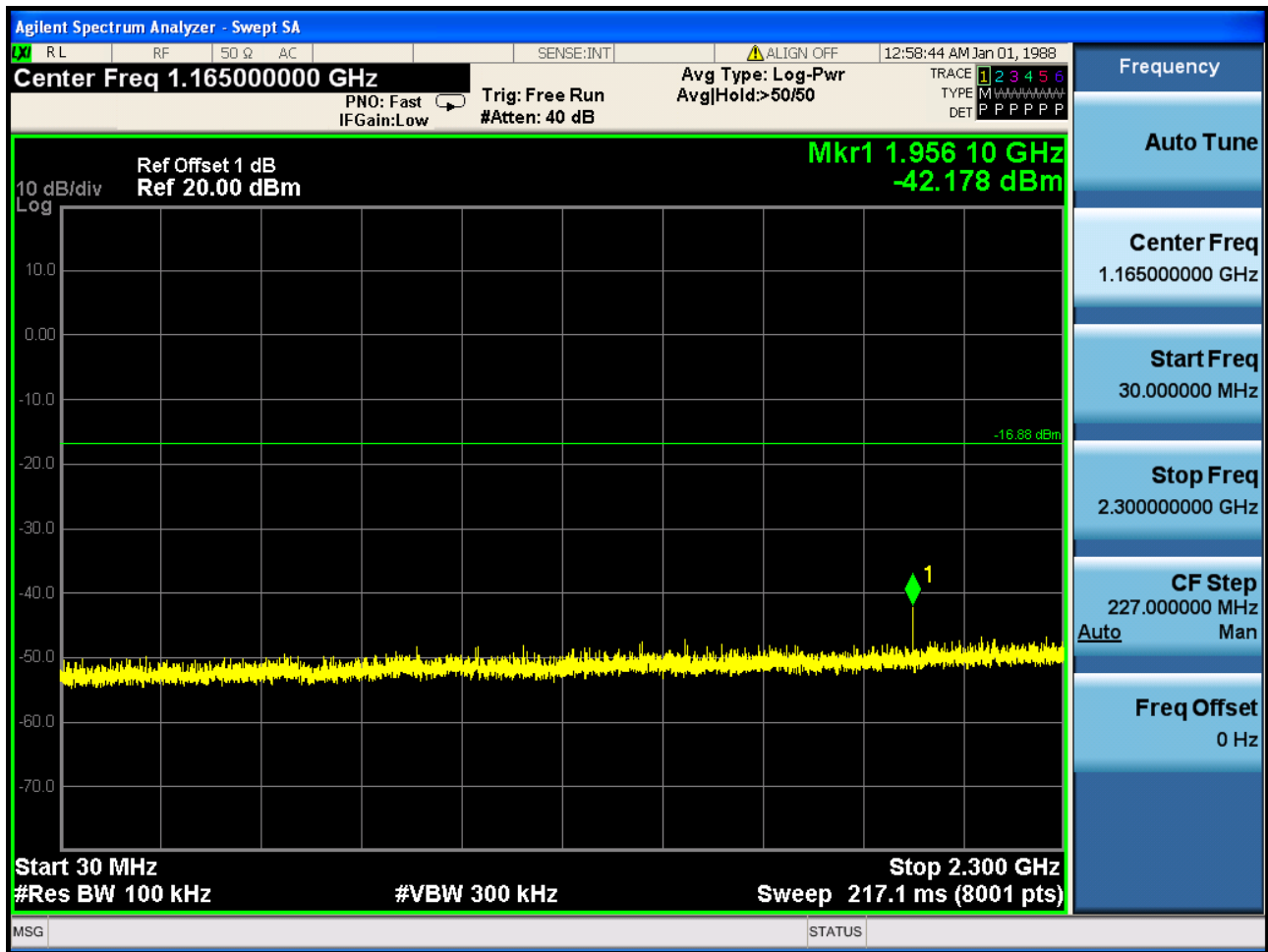
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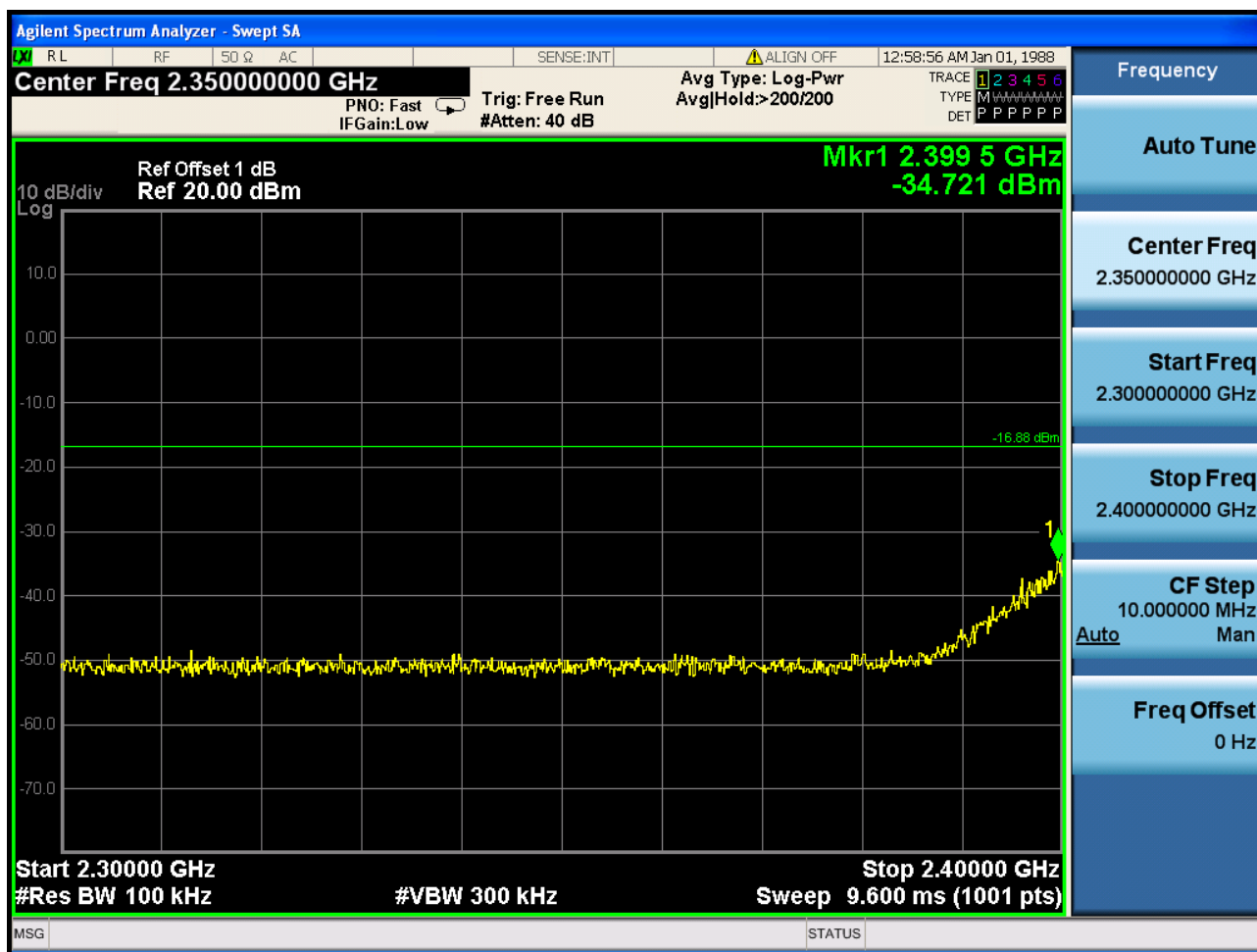


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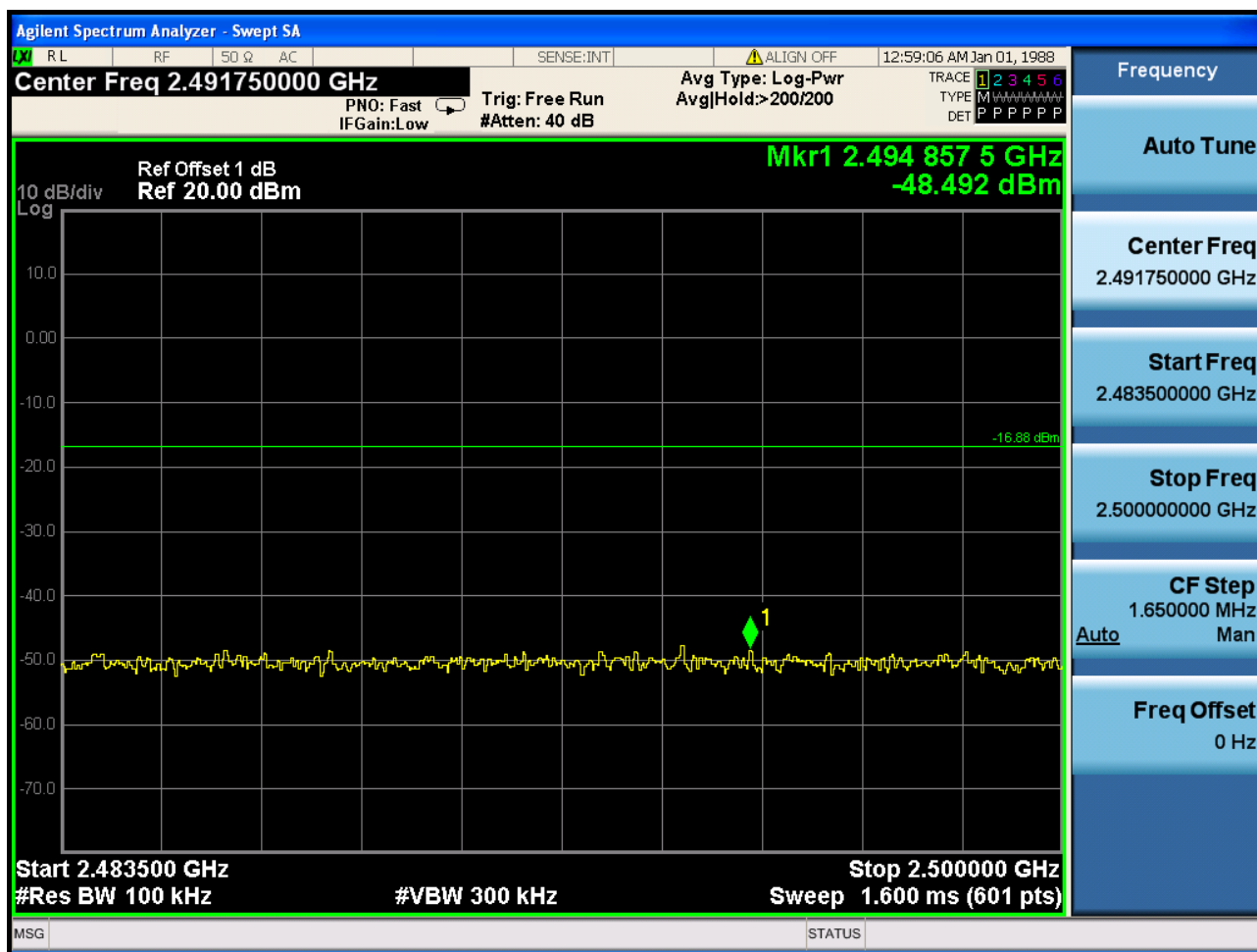


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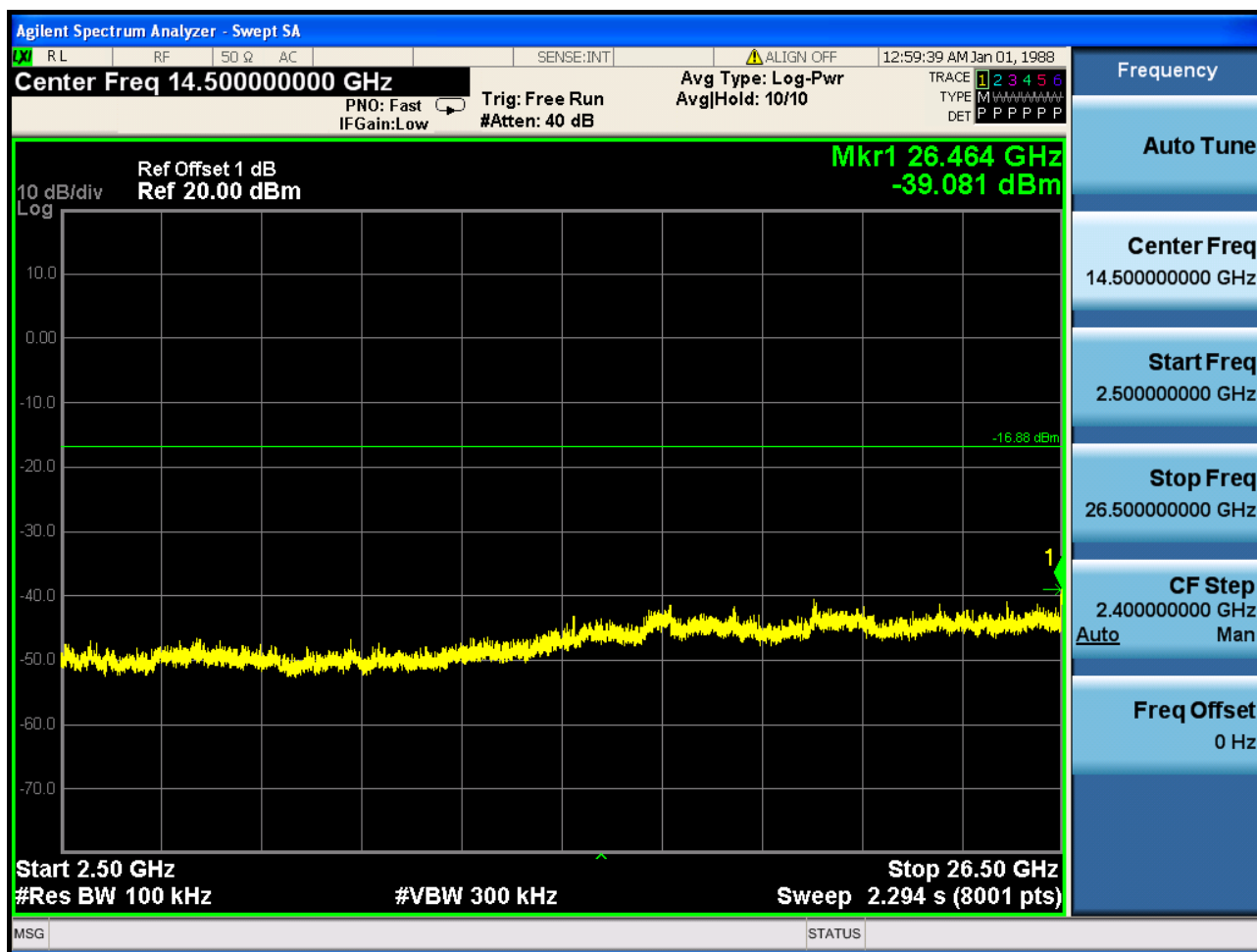
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#### 4.8.1.1.10 802.11 N20\_ CH6

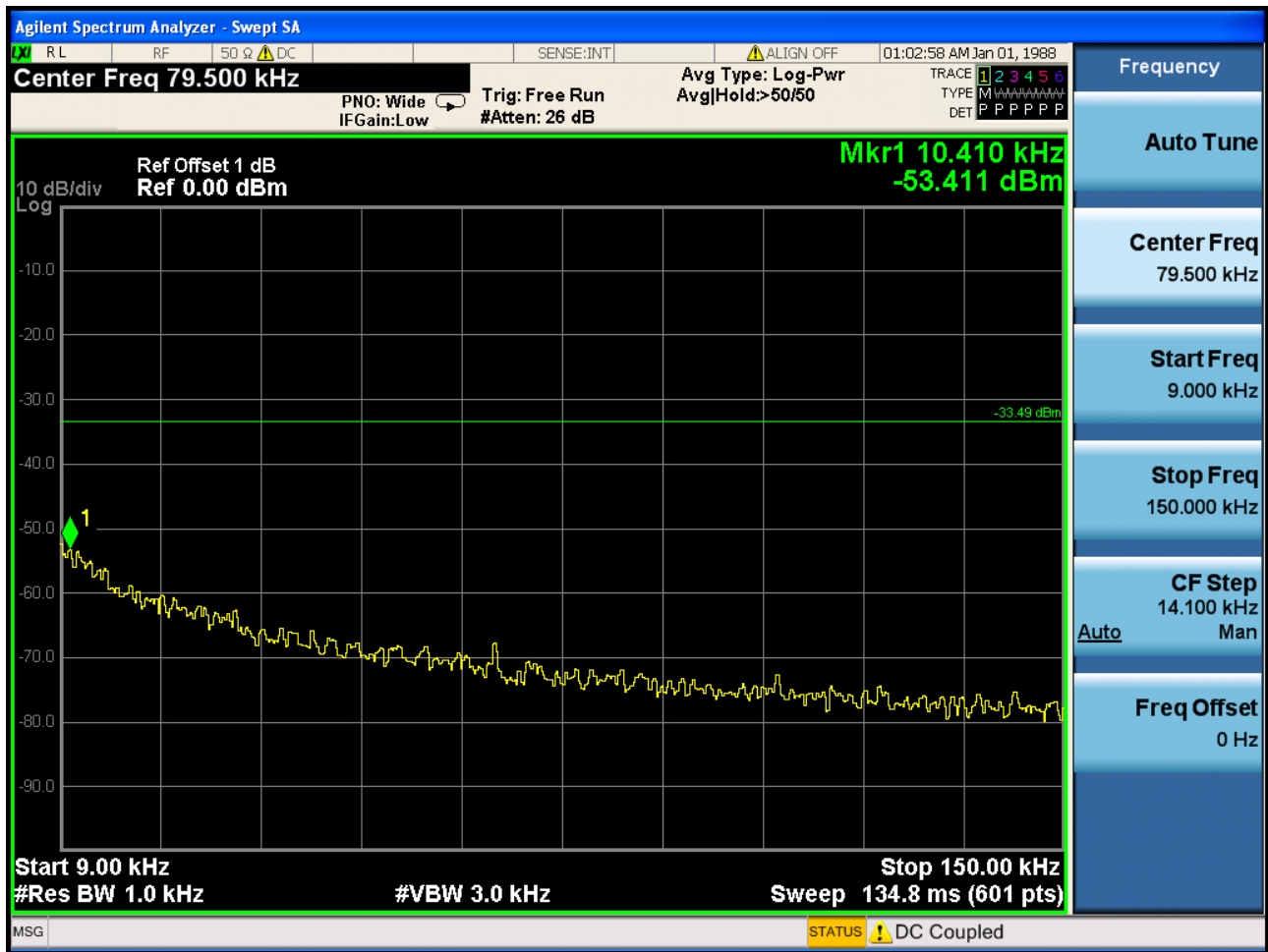


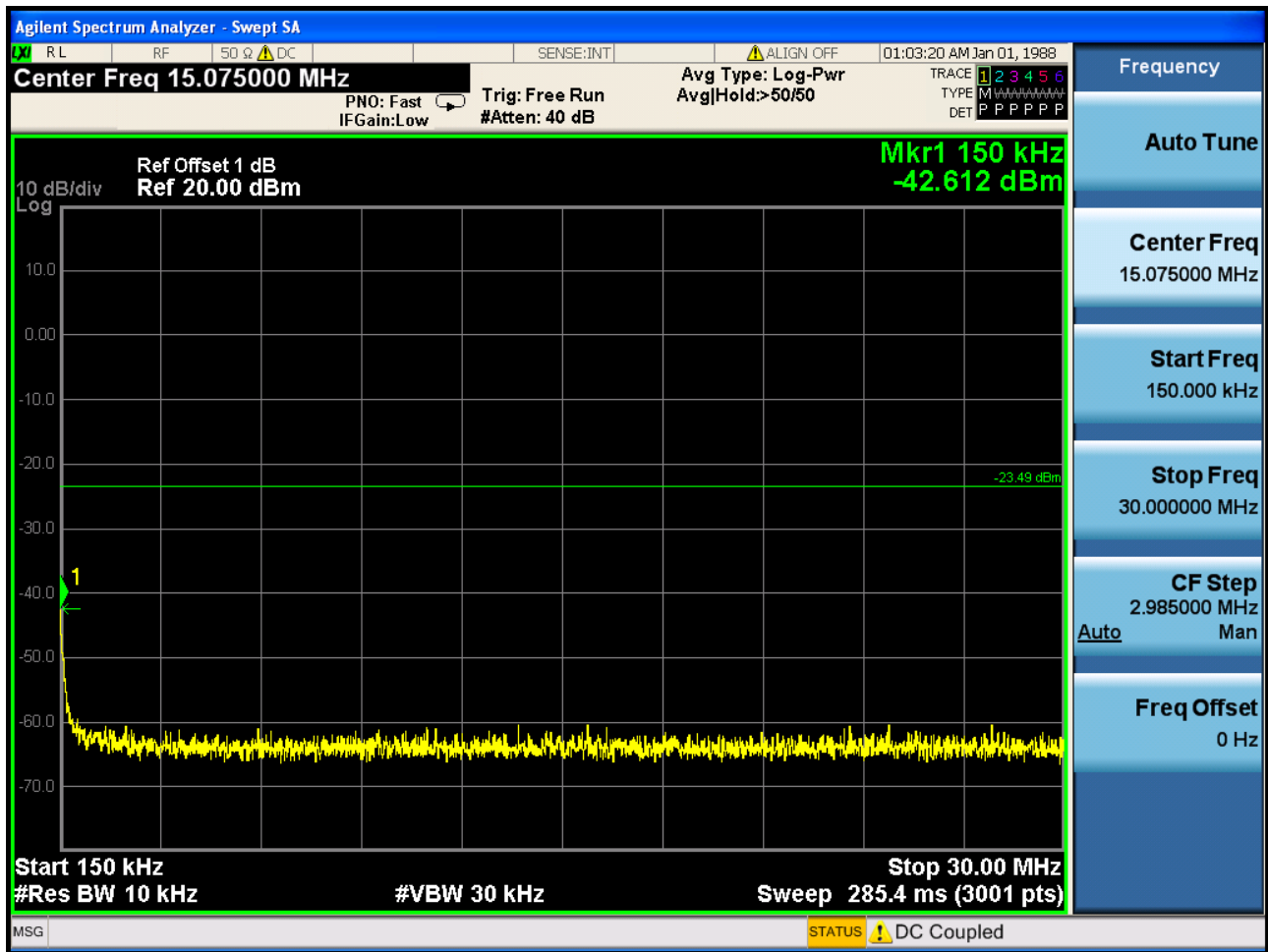
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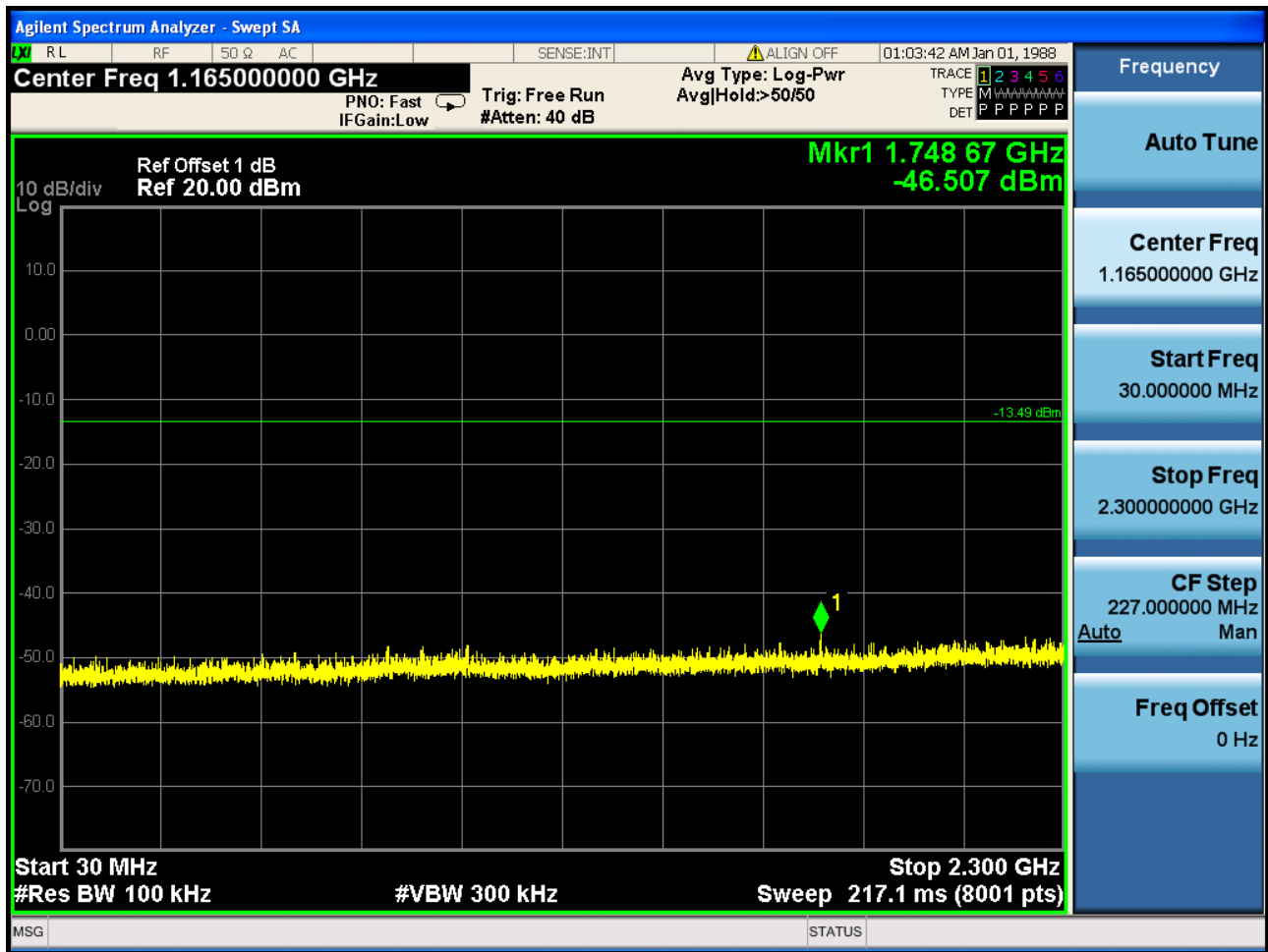
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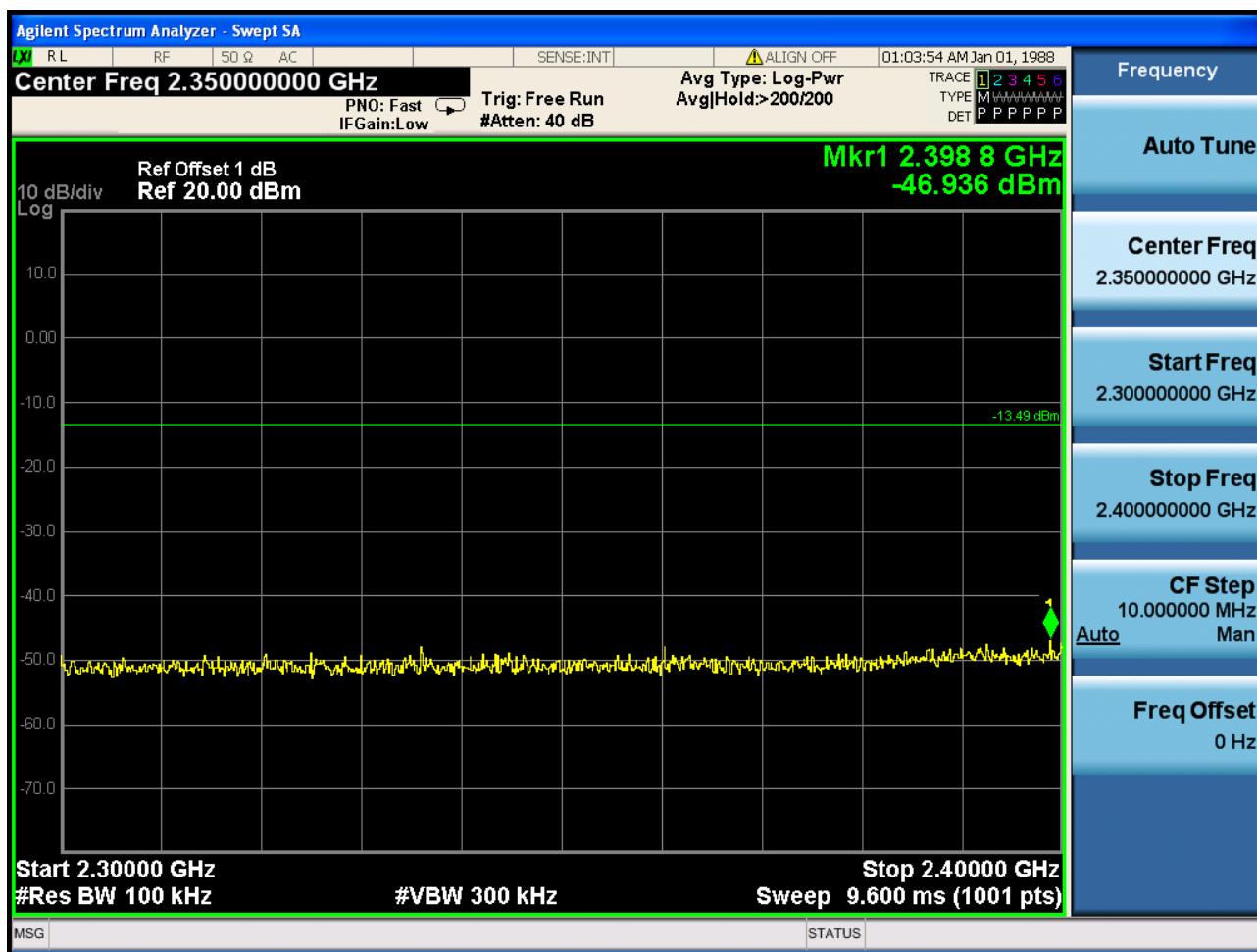
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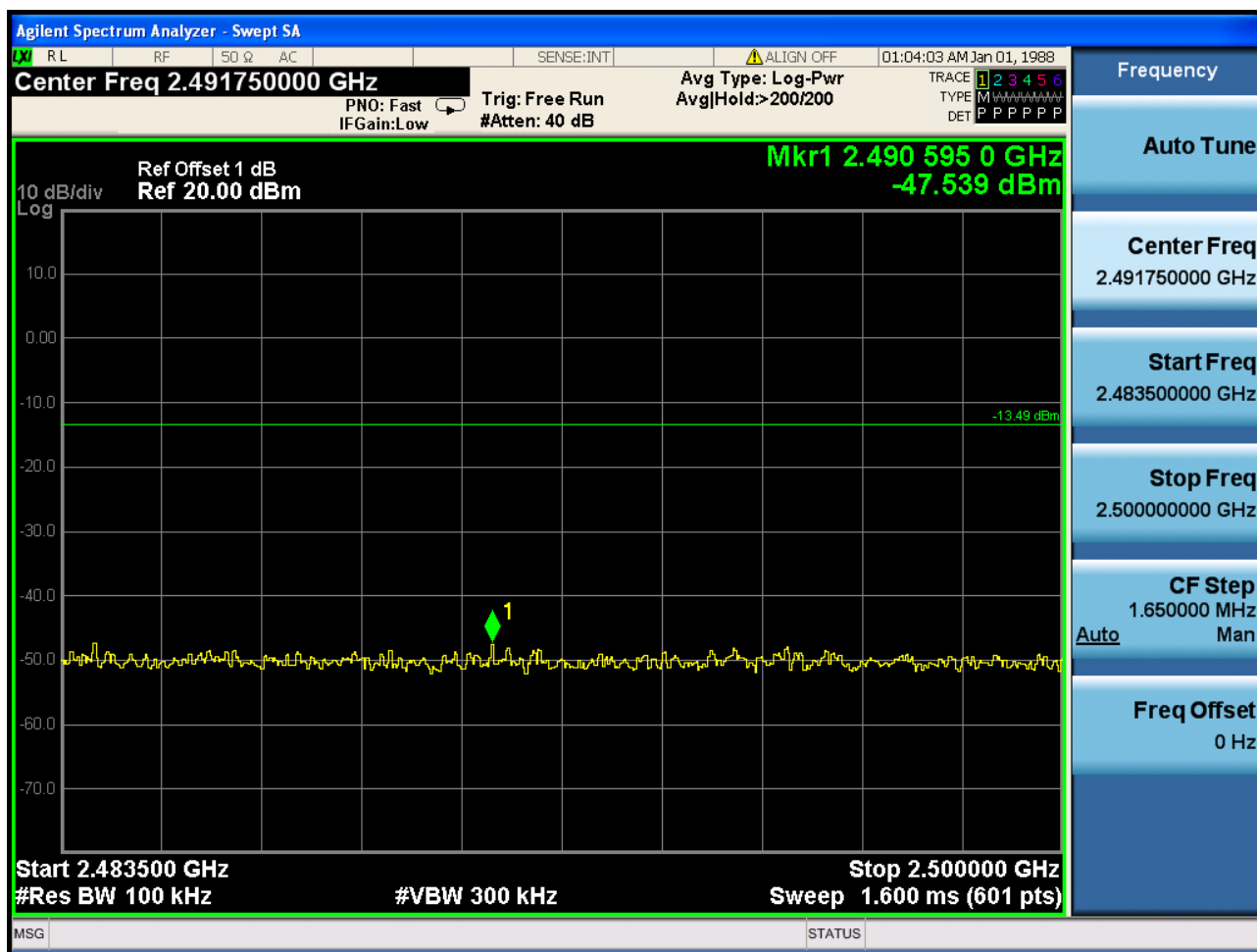
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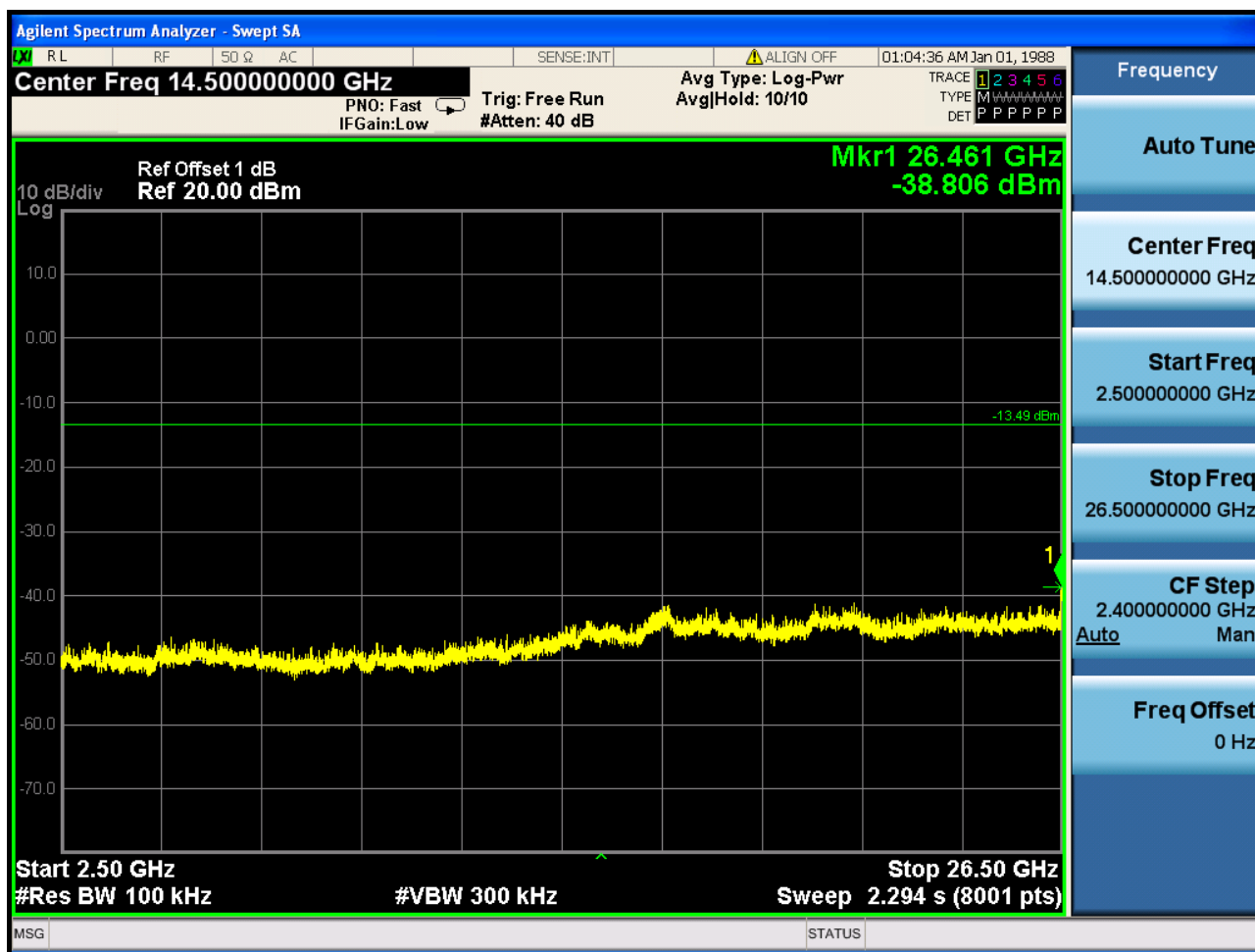


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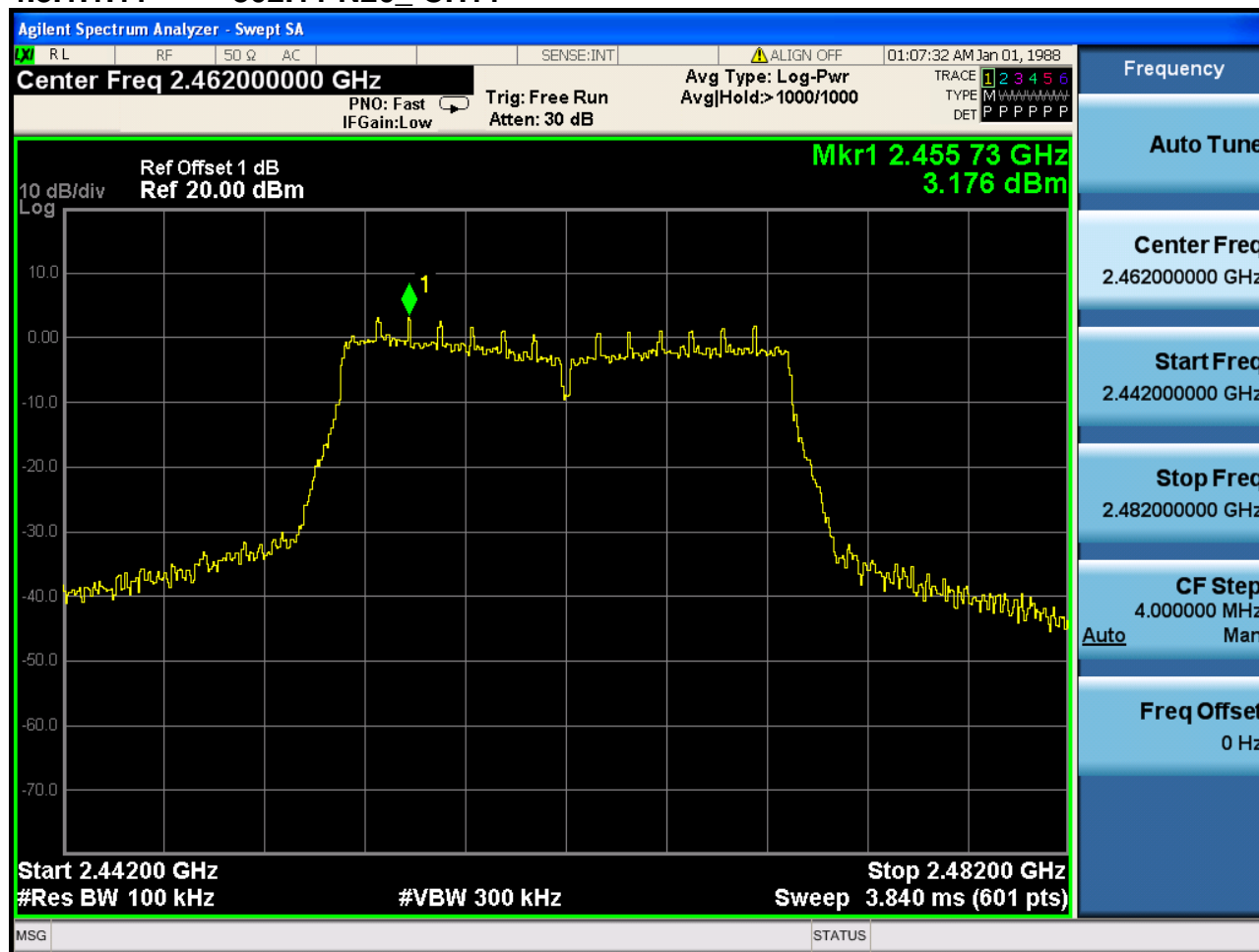
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#### 4.8.1.1.11 802.11 N20\_ CH11



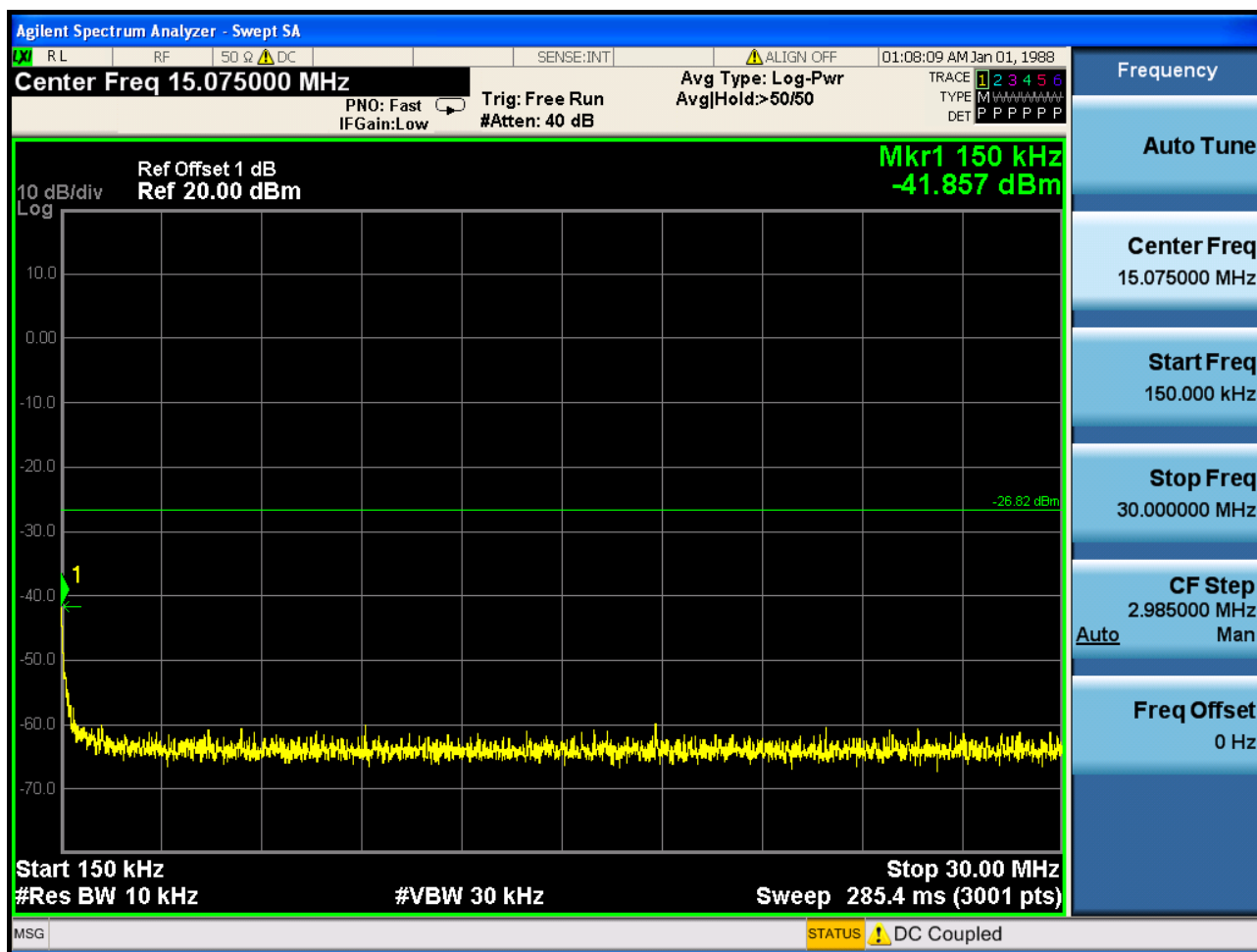
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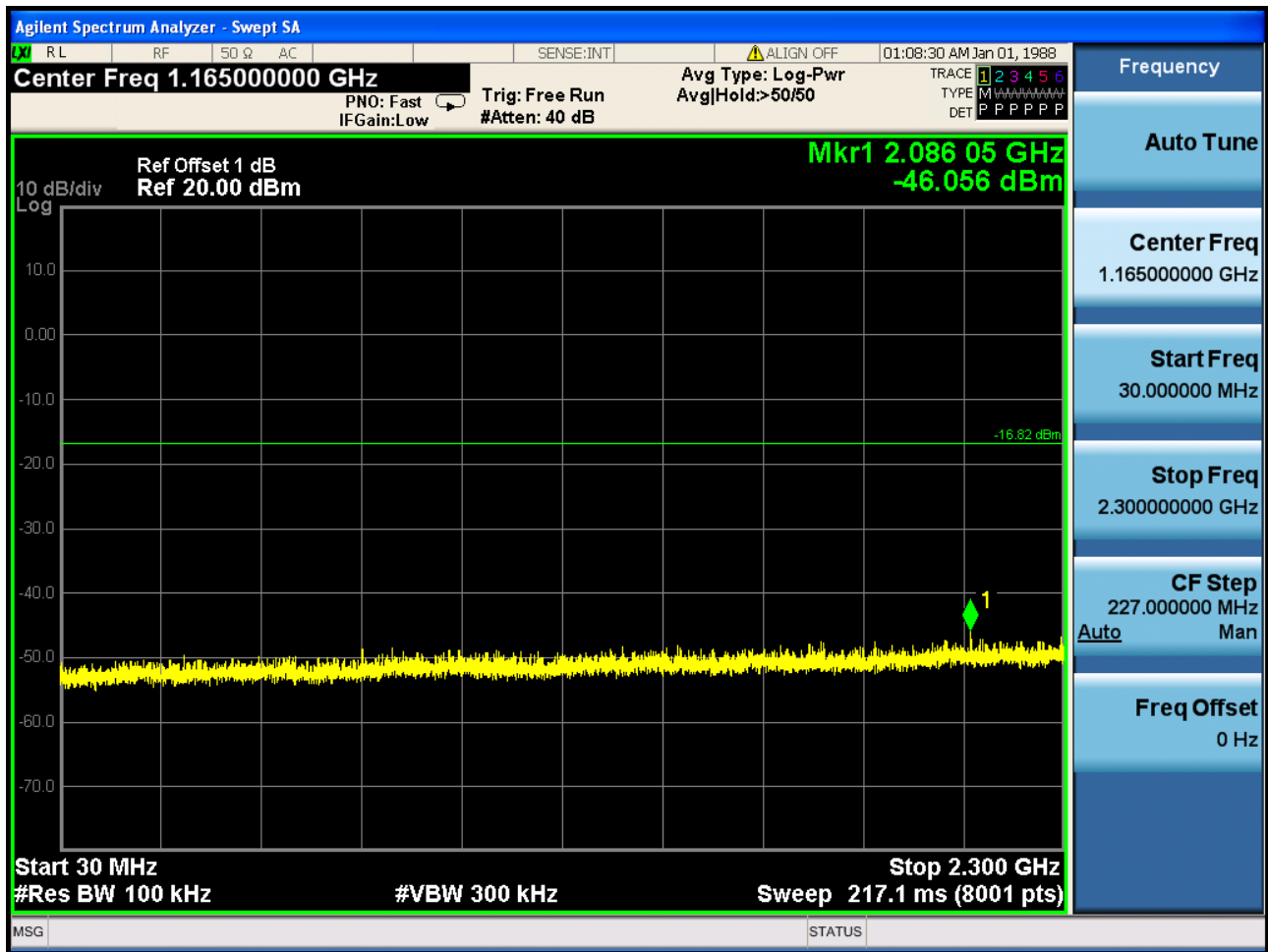


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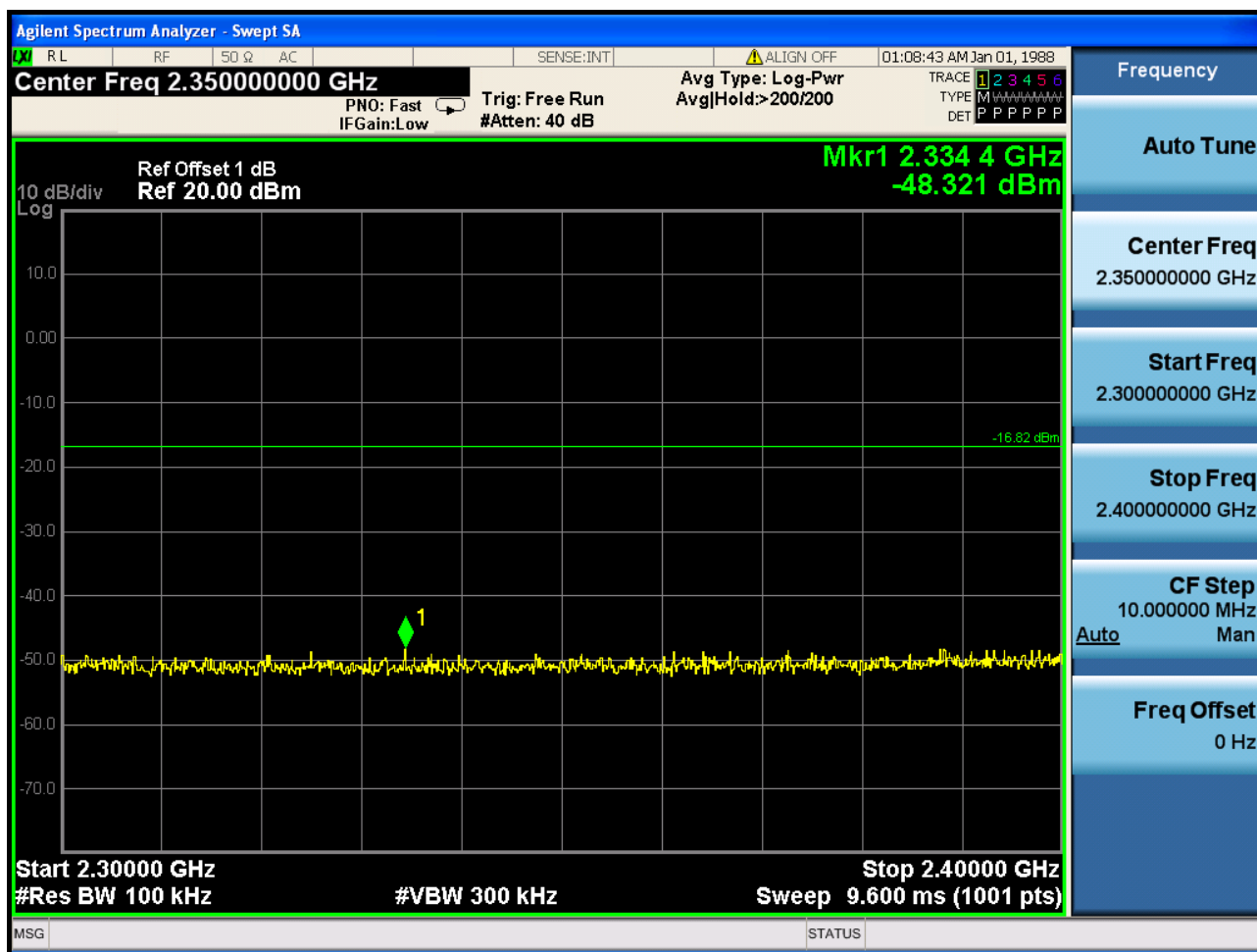
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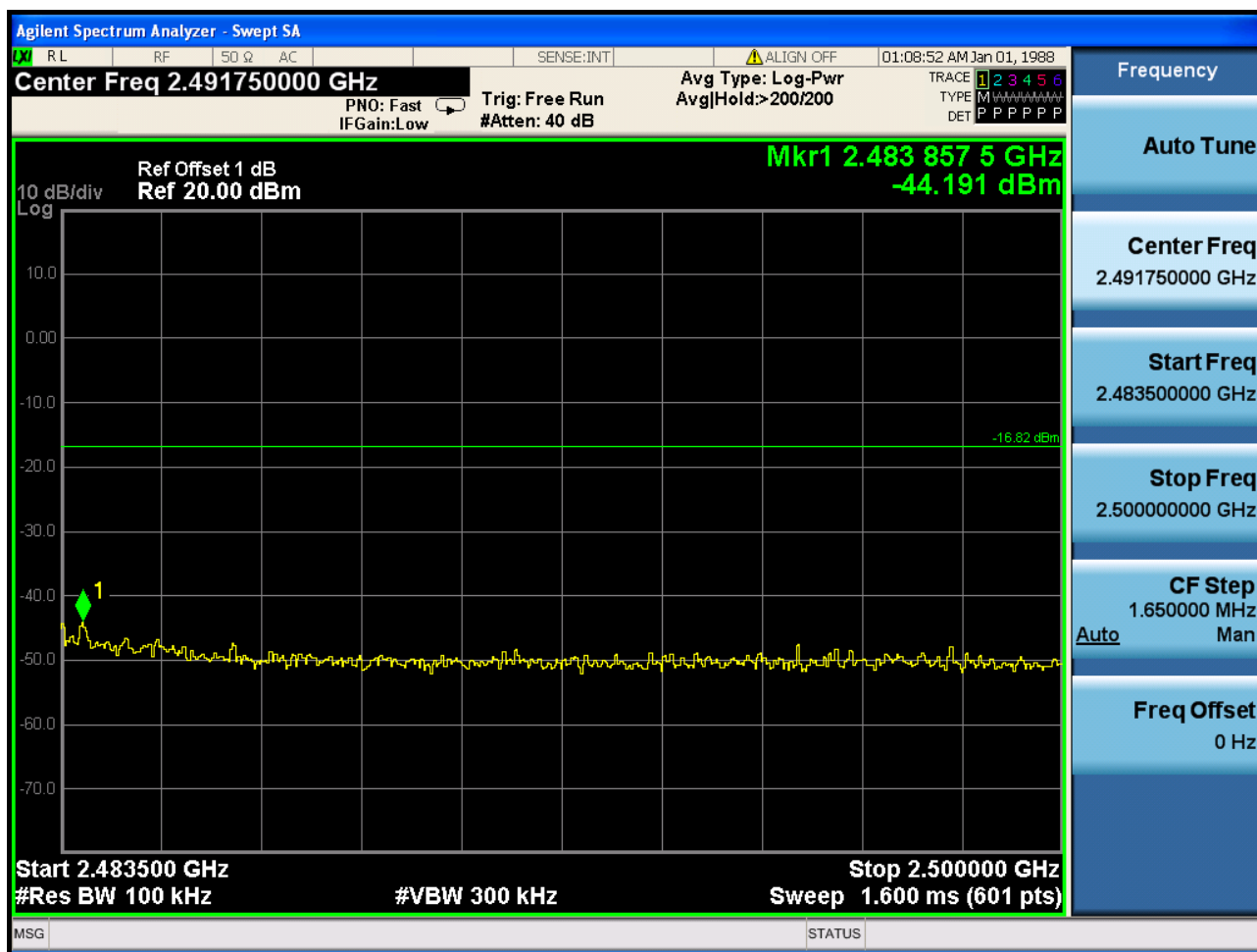


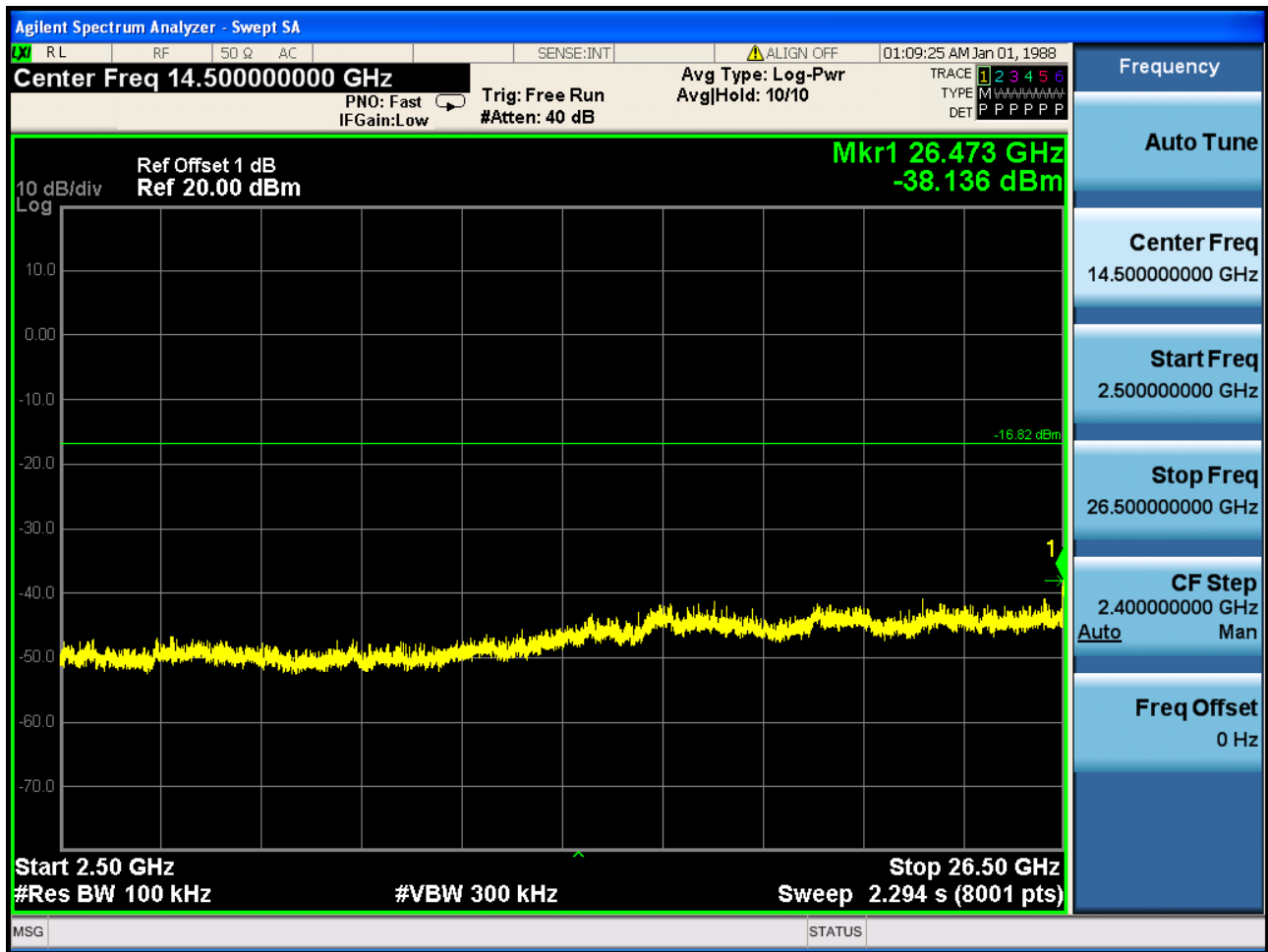
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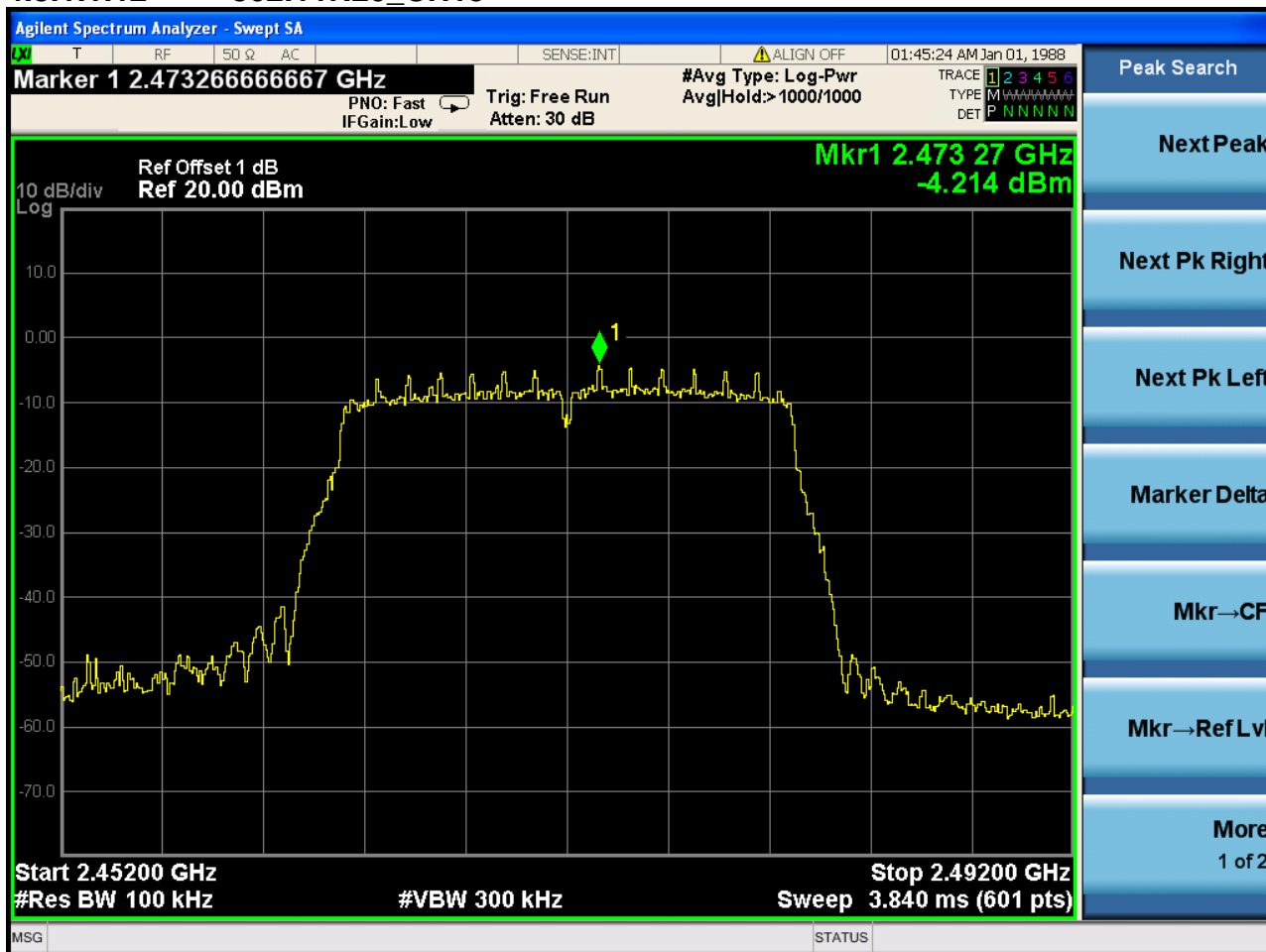
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#### 4.8.1.1.12 802.11N20\_CH13



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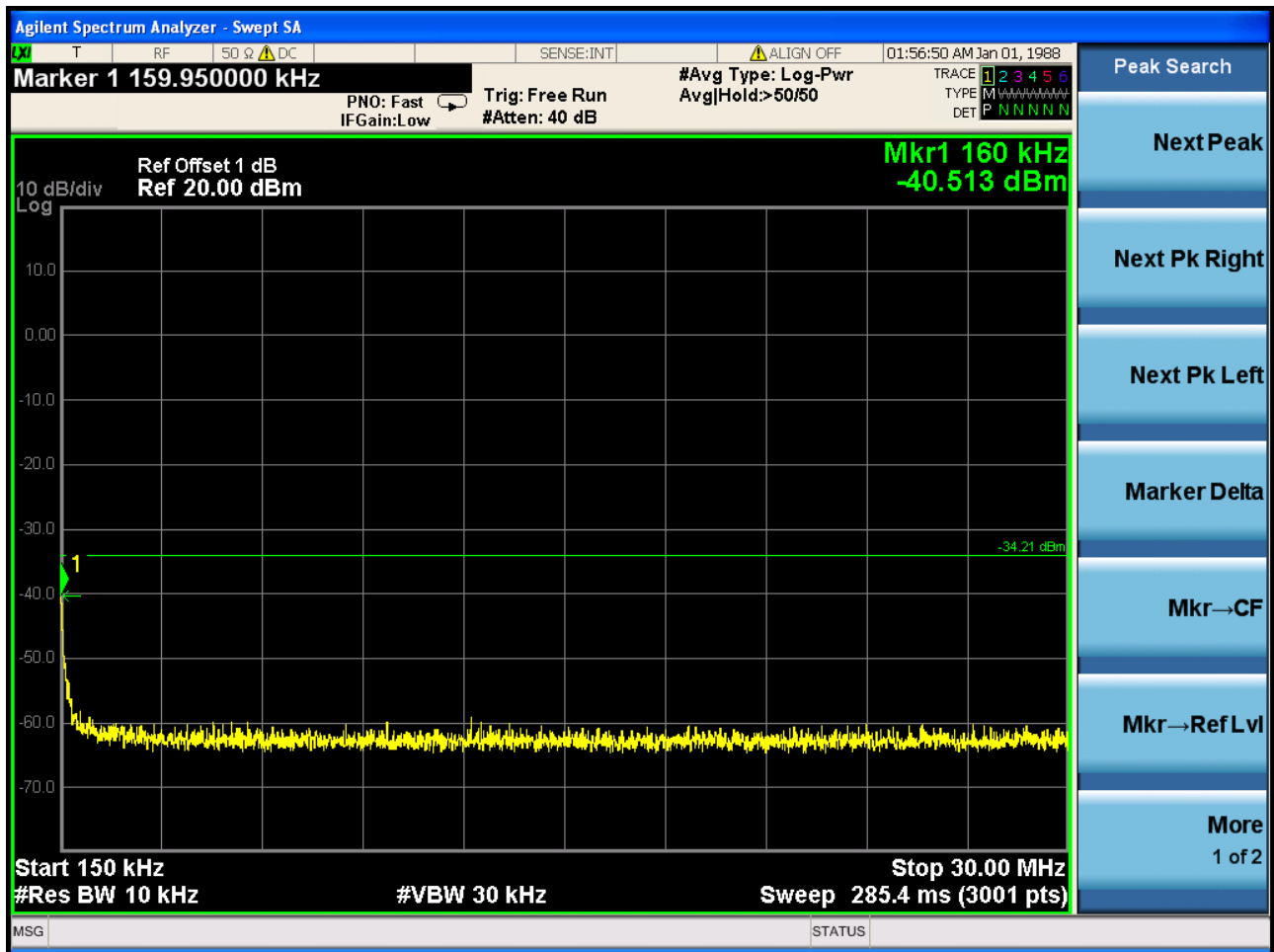
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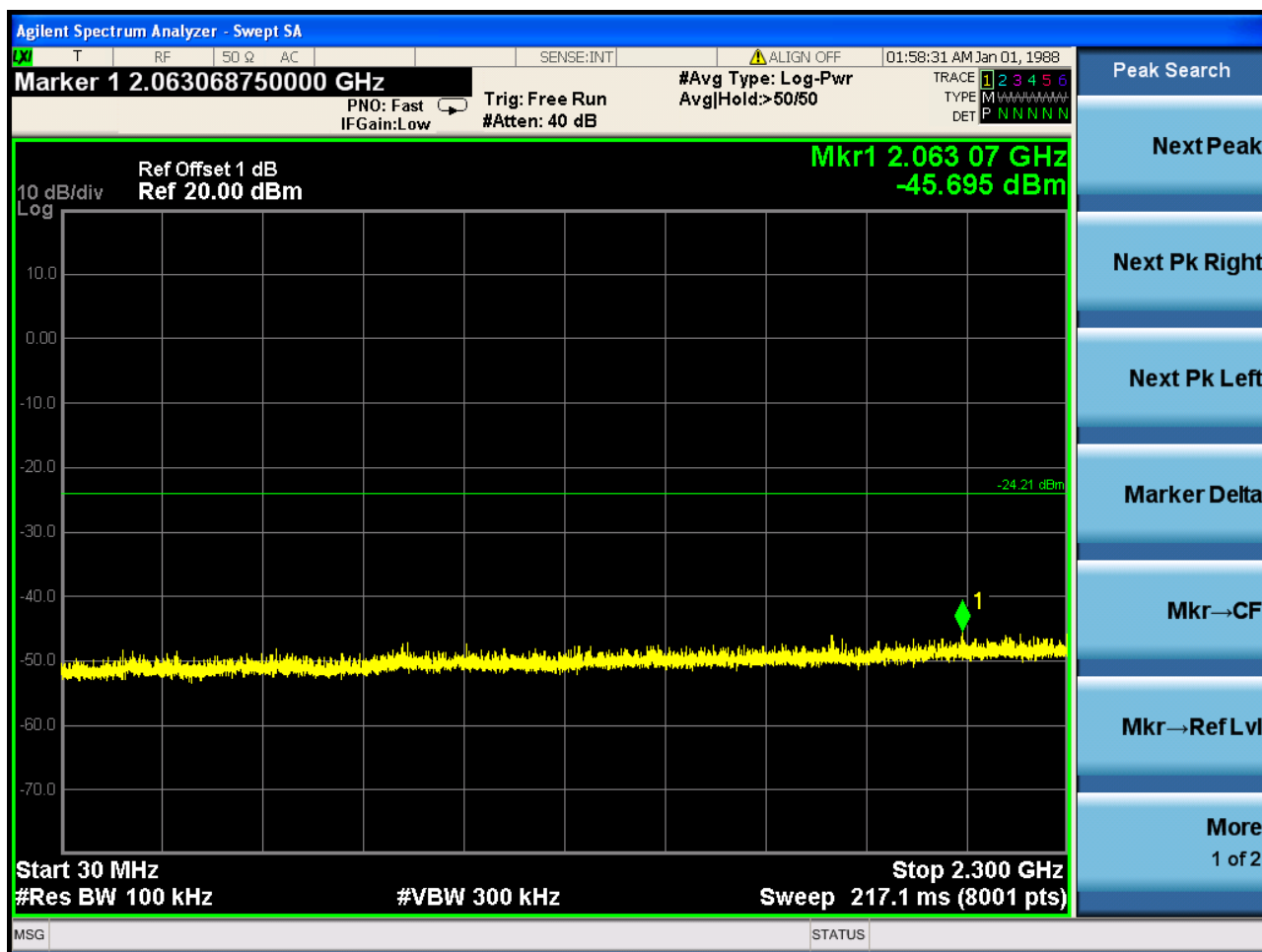
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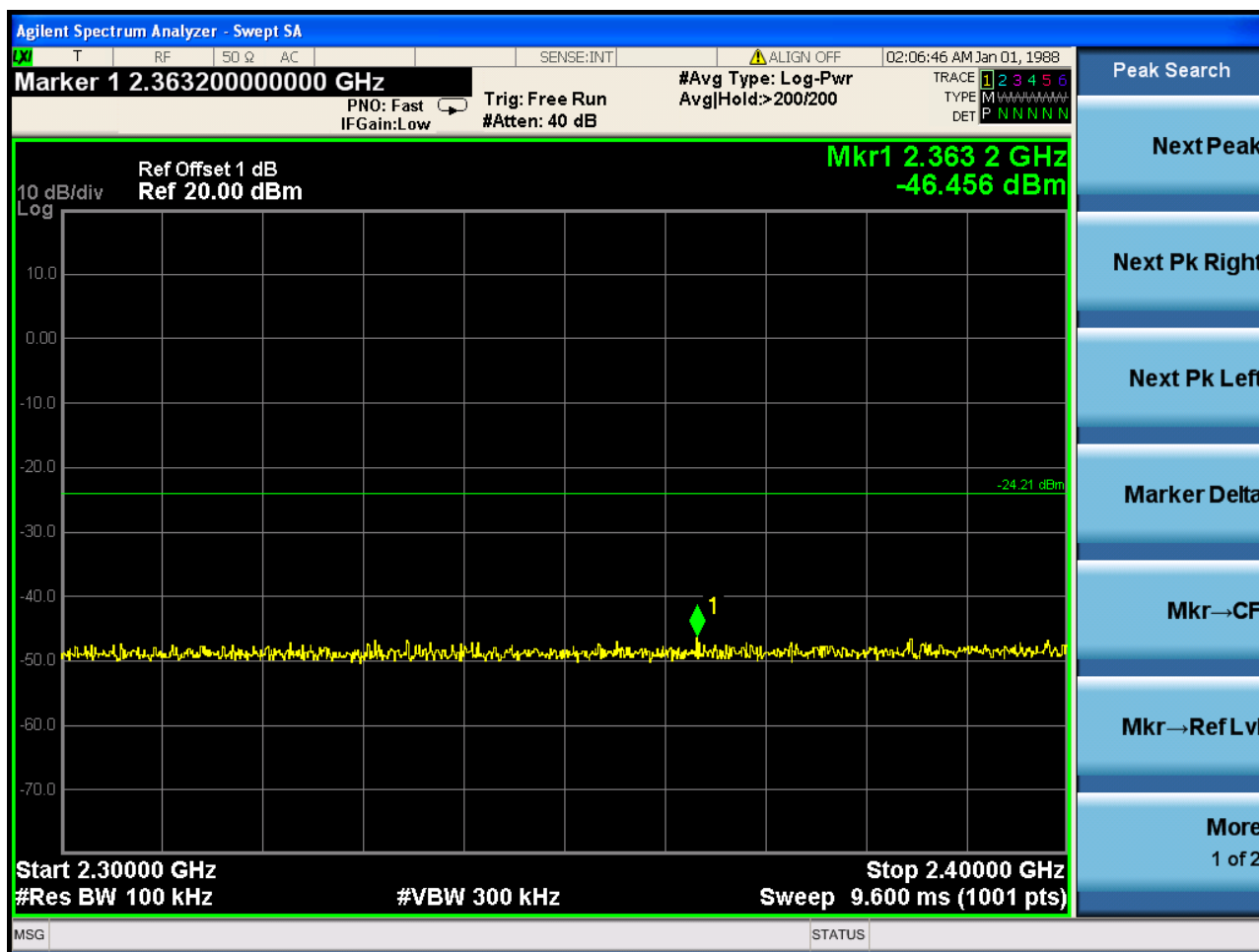
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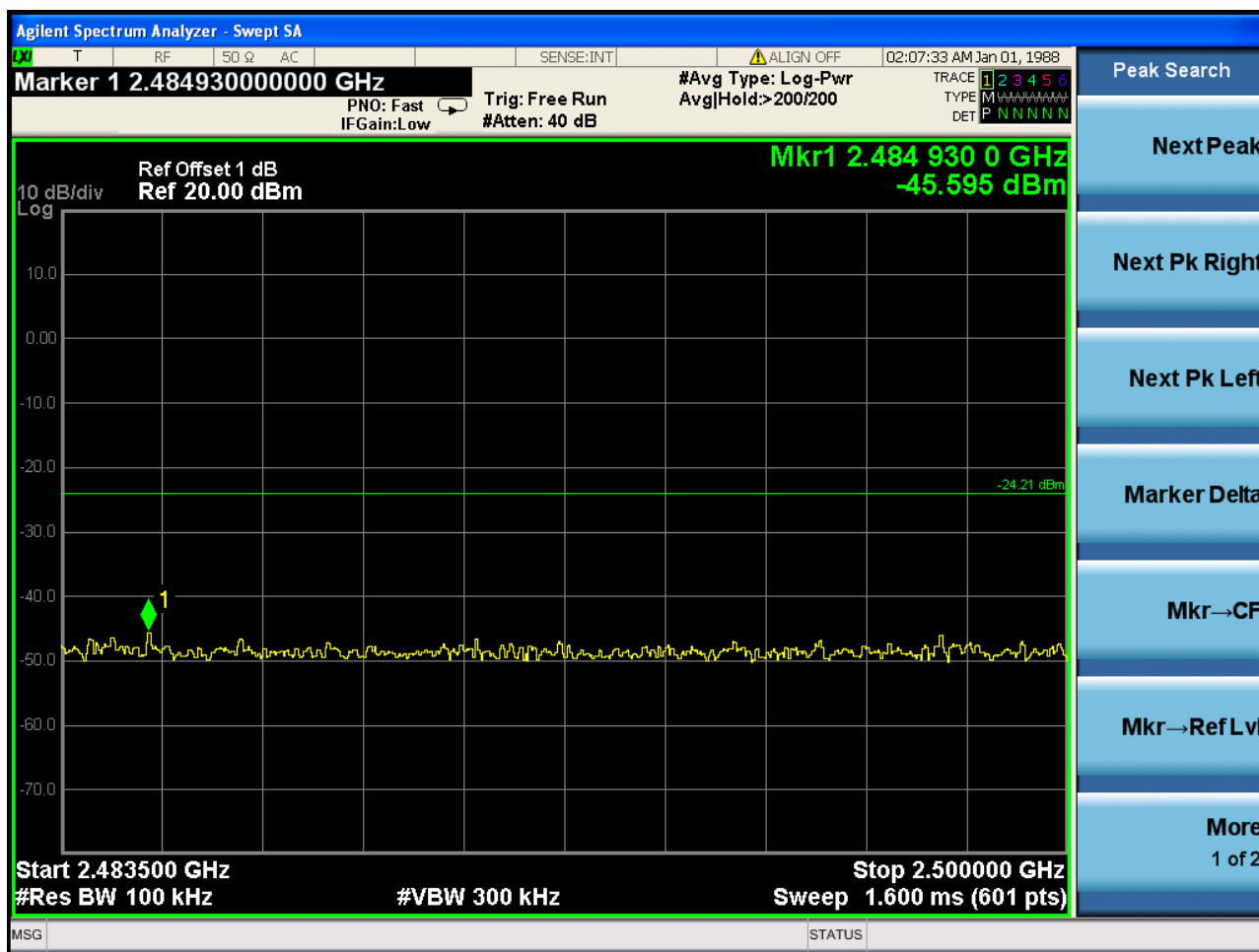
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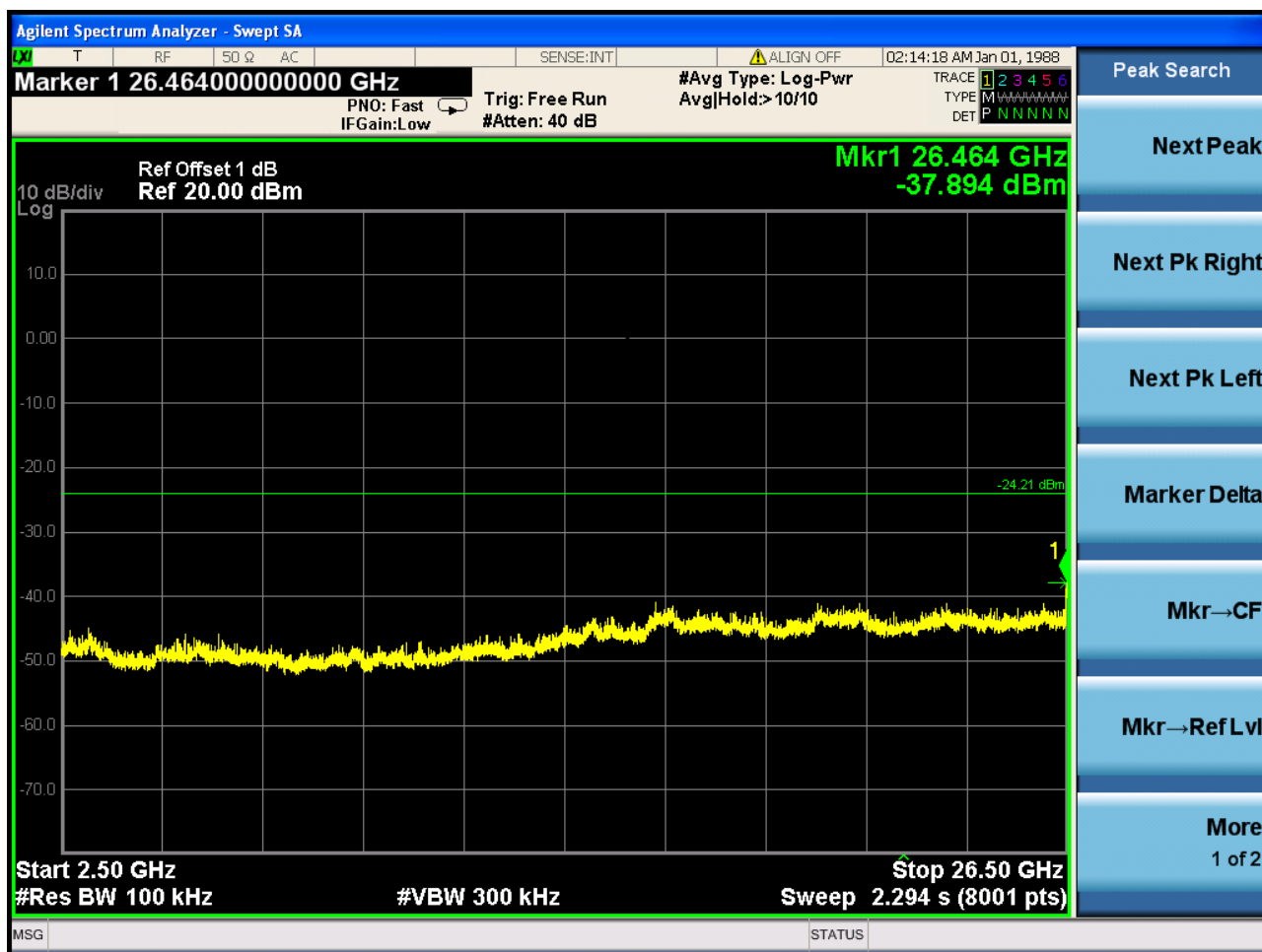












#### Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the CH11 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.





## 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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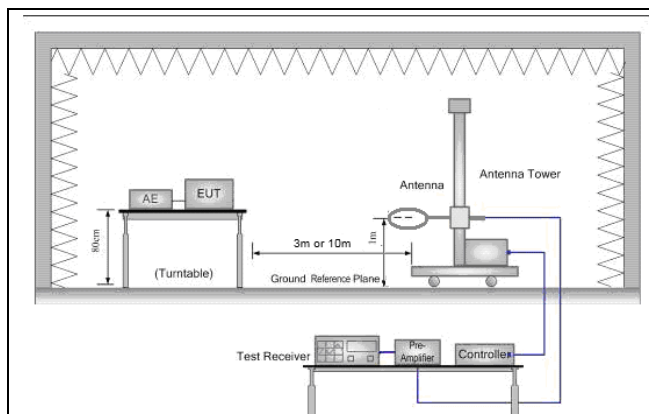


Figure 1. Below 30MHz

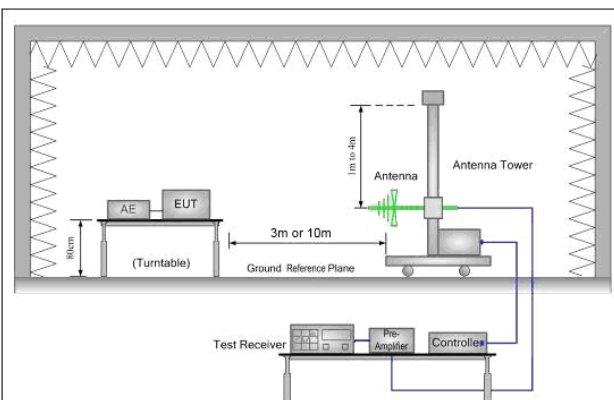


Figure 2. 30MHz to 1GHz

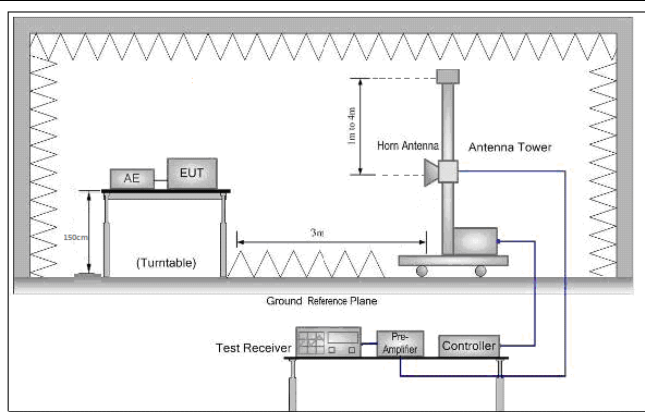


Figure 3. Above 1 GHz

**Test Procedure:**

- 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 CH11 radiation.
- 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 CH11 radiation.
- 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.
- 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.
- 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 rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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



	<p>re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the CH1, the CH6, the CH11</p> <p>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.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
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>6.5Mbps of rate is the worst case of 802.11N(HT20);</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at CH1 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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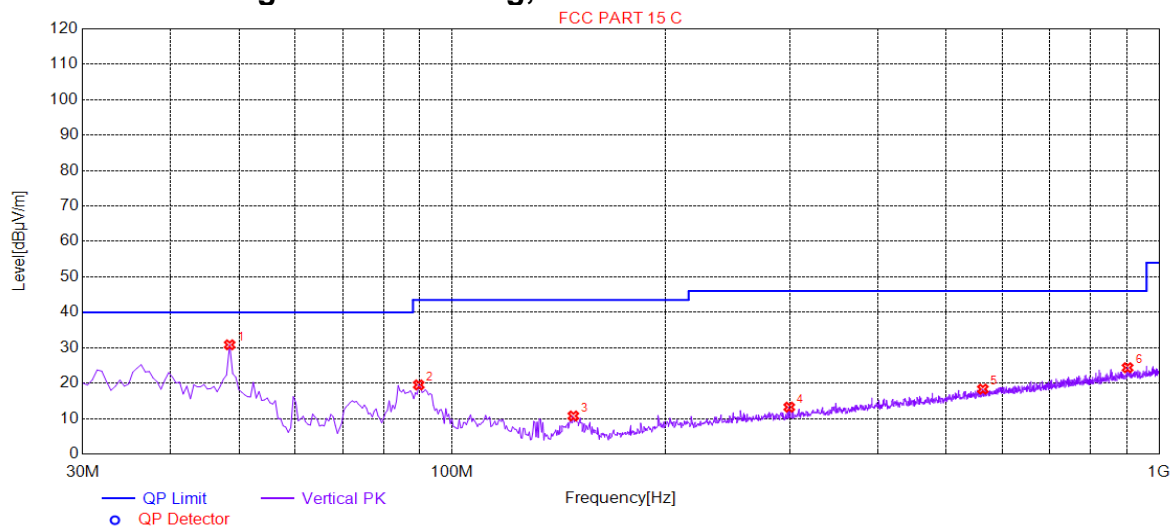
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#### 4.9.1 Radiated emission below 1GHz

##### 4.9.1.1 Charge + Transmitting, Vertical



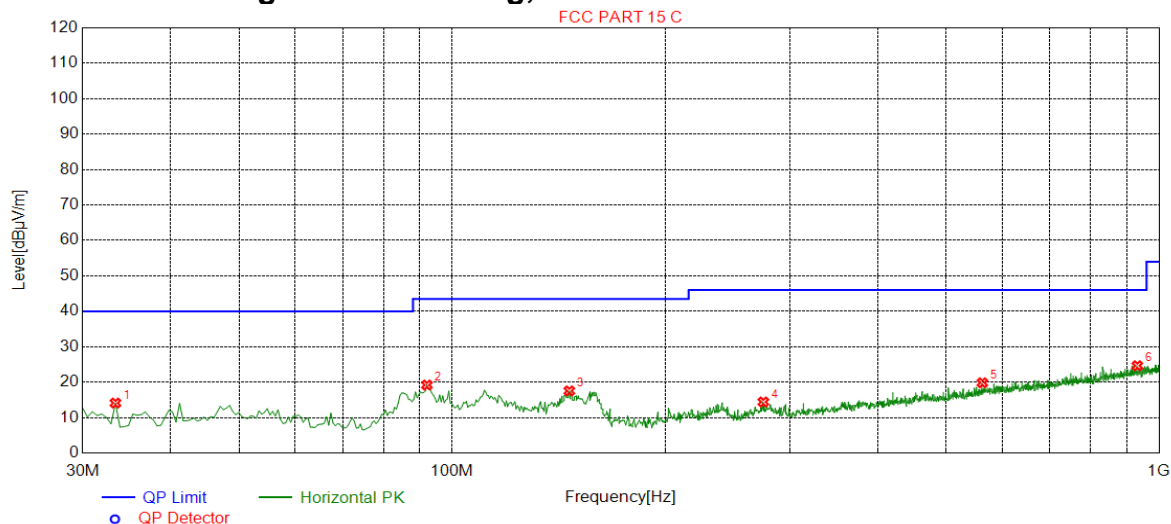
#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4392	30.83	-30.19	40.00	9.17	100	272	Vertical
2	89.6848	19.51	-33.51	43.50	23.99	100	68	Vertical
3	148.3992	10.75	-34.85	43.50	32.75	200	197	Vertical
4	299.7949	13.23	-27.87	46.00	32.77	200	288	Vertical
5	563.2816	18.32	-21.09	46.00	27.68	200	165	Vertical
6	902.4662	24.36	-15.19	46.00	21.64	100	306	Vertical





#### 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	33.3967	14.11	-32.79	40.00	25.89	100	311	Horizontal
2	92.1111	19.19	-33.06	43.50	24.31	200	294	Horizontal
3	146.4582	17.54	-34.93	43.50	25.96	100	94	Horizontal
4	275.5328	14.41	-28.55	46.00	31.59	200	338	Horizontal
5	562.3112	19.82	-21.11	46.00	26.18	100	281	Horizontal
6	931.5808	24.64	-14.75	46.00	21.36	200	344	Horizontal



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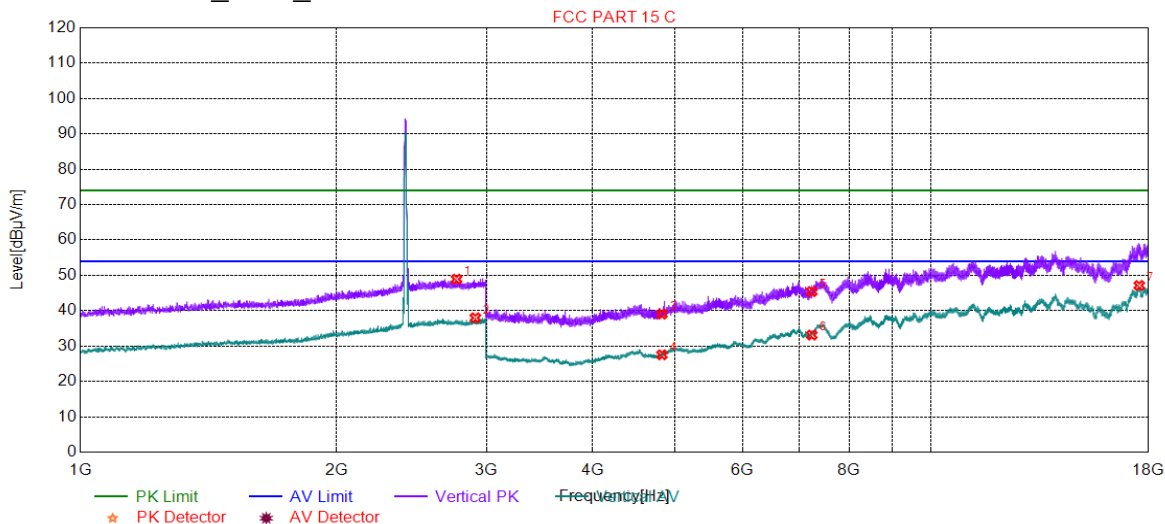
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## 4.9.2 Transmitter emission above 1GHz

## 4.9.2.1 ANT1

## 4.9.2.1.1 802.11B\_CH1\_ Vertical

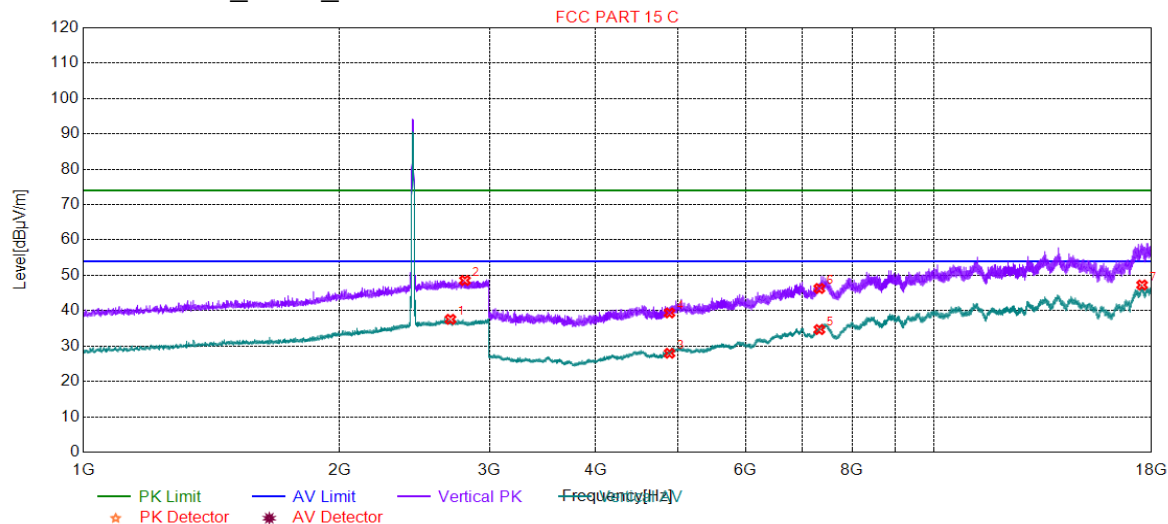


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2766.9417	48.92	2.08	74.00	25.08	150	327	Vertical
2	2911.9780	38.00	2.27	54.00	16.00	150	76	Vertical
3	4824.0000	39.05	-20.09	74.00	34.95	150	325	Vertical
4	4824.0000	27.54	-20.09	54.00	26.46	150	325	Vertical
5	7236.0000	45.41	-12.40	74.00	28.59	150	341	Vertical
6	7236.0000	33.12	-12.40	54.00	20.88	150	67	Vertical
7	17549.9775	47.13	0.99	54.00	6.87	150	256	Vertical



## 4.9.2.1.2 802.11B\_ CH6\_ Vertical

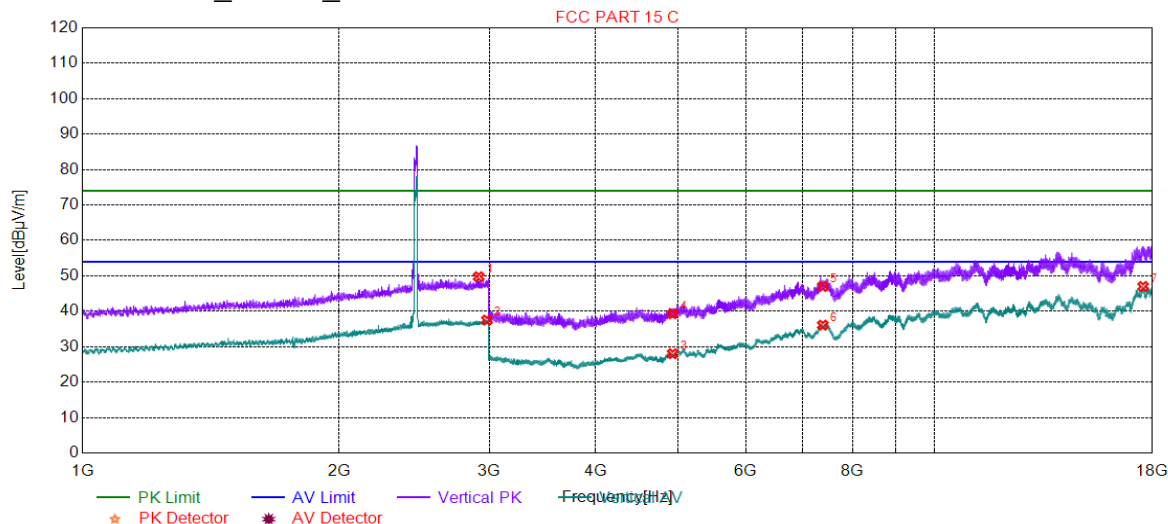


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2699.9250	37.57	1.96	54.00	16.43	150	6	Vertical
2	2807.9520	48.56	2.15	74.00	25.44	150	328	Vertical
3	4884.0000	27.97	-19.23	54.00	26.03	150	83	Vertical
4	4884.0000	39.38	-19.23	74.00	34.62	150	164	Vertical
5	7326.0000	34.67	-11.35	54.00	19.33	150	164	Vertical
6	7326.0000	46.29	-11.35	74.00	27.71	150	83	Vertical
7	17539.4770	47.28	0.86	54.00	6.72	150	199	Vertical



#### 4.9.2.1.3 802.11B\_ CH11\_ Vertical

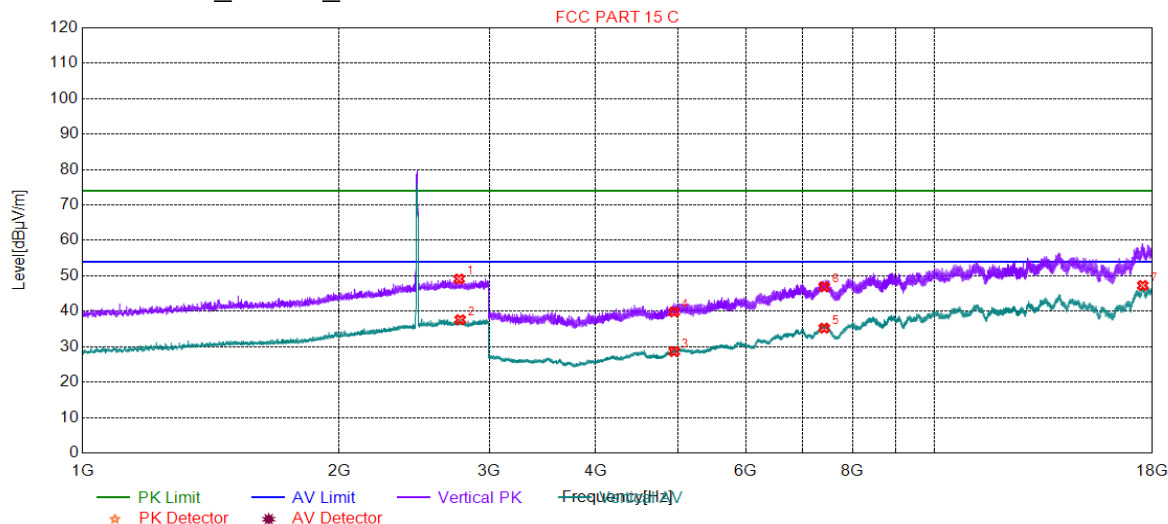


#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2915.478	49.76	2.27	74.00	24.24	150	272	Vertical
2	2980.995	37.52	2.32	54.00	16.48	150	10	Vertical
3	4924.000	28.03	-18.87	54.00	25.97	150	227	Vertical
4	4924.000	39.31	-18.87	74.00	34.69	150	308	Vertical
5	7386.000	47.02	-10.72	74.00	26.98	150	18	Vertical
6	7386.000	36.09	-10.72	54.00	17.91	150	115	Vertical
7	17545.97	47.00	0.94	54.00	7.00	150	228	Vertical



#### 4.9.2.1.4 802.11B\_ CH13\_ Vertical



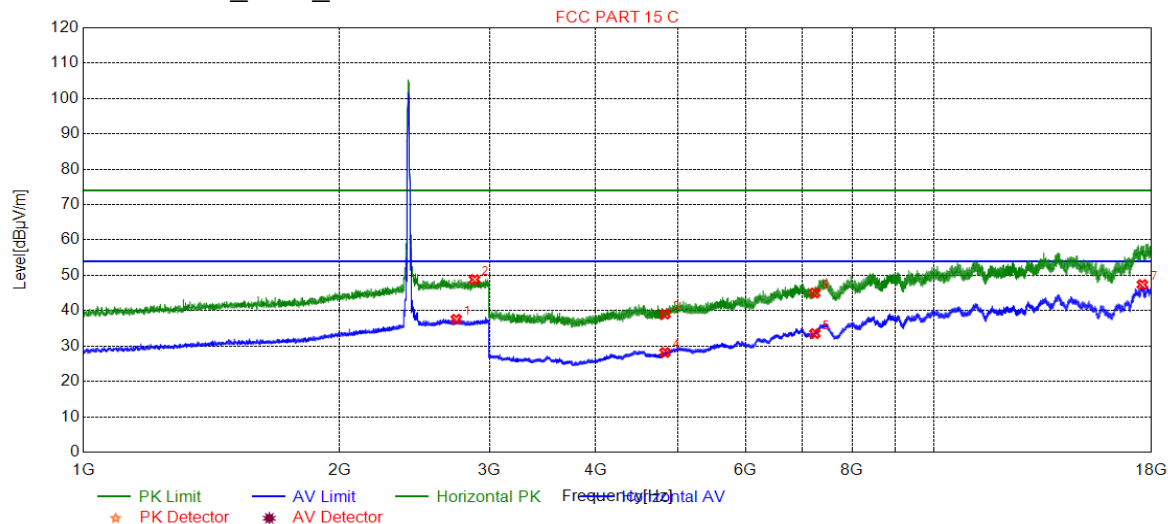
#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2765.941	49.13	2.08	74.00	24.87	150	122	Vertical
2	2773.943	37.62	2.09	54.00	16.38	150	67	Vertical
3	4944.000	28.65	-18.76	54.00	25.35	150	83	Vertical
4	4944.000	39.83	-18.76	74.00	34.17	150	245	Vertical
5	7416.000	35.25	-10.64	54.00	18.75	150	18	Vertical
6	7416.000	46.88	-10.64	74.00	27.12	150	245	Vertical
7	17533.47	47.27	0.78	54.00	6.73	150	171	Vertical





## 4.9.2.1.5 802.11B\_CH1\_ Horizontal



## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2742.4356	37.59	2.04	54.00	16.41	150	212	Horizontal
2	2881.9705	48.81	2.24	74.00	25.19	150	251	Horizontal
3	4824.0000	39.03	-20.09	74.00	34.97	150	358	Horizontal
4	4824.0000	28.19	-20.09	54.00	25.81	150	312	Horizontal
5	7236.0000	33.55	-12.40	54.00	20.45	150	132	Horizontal
6	7236.0000	45.02	-12.40	74.00	28.98	150	115	Horizontal
7	17554.9777	47.39	1.05	54.00	6.61	150	30	Horizontal



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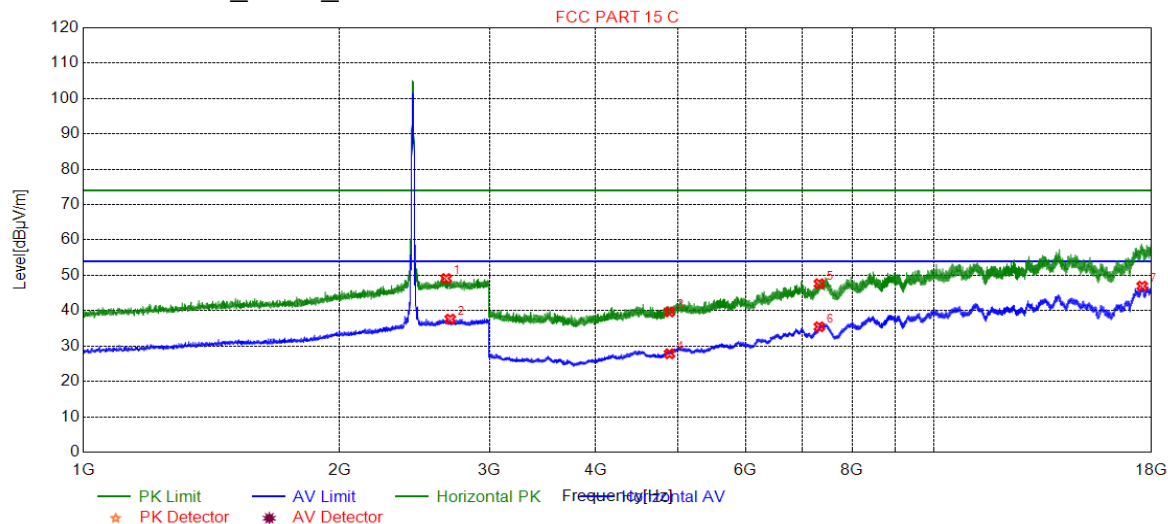
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## 4.9.2.1.6 802.11B\_ CH6\_ Horizontal

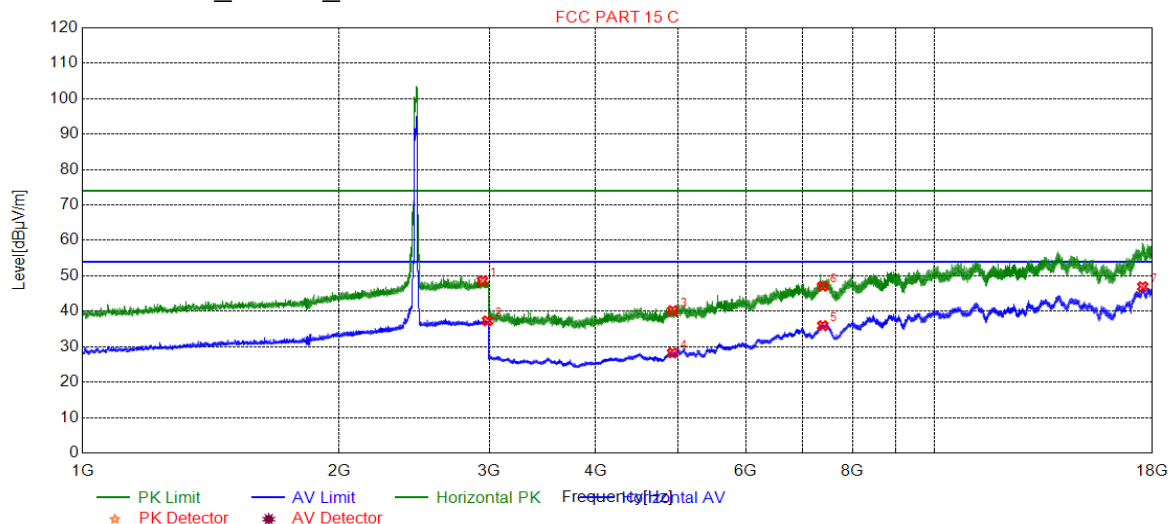


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2668.9172	49.11	1.90	74.00	24.89	150	80	Horizontal
2	2698.4246	37.64	1.96	54.00	16.36	150	229	Horizontal
3	4884.0000	39.67	-19.23	74.00	34.33	150	187	Horizontal
4	4884.0000	27.83	-19.23	54.00	26.17	150	360	Horizontal
5	7326.0000	47.63	-11.35	74.00	26.37	150	335	Horizontal
6	7326.0000	35.47	-11.35	54.00	18.53	150	203	Horizontal
7	17548.4774	46.96	0.97	54.00	7.04	150	285	Horizontal



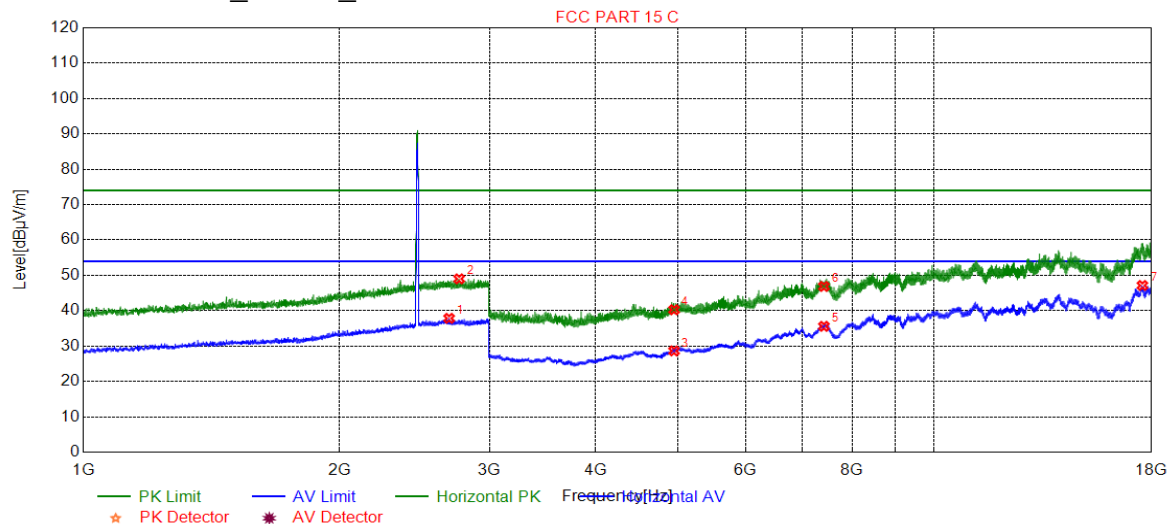
#### 4.9.2.1.7 802.11B\_ CH11\_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2945.486	48.61	2.29	74.00	25.39	150	64	Horizontal
2	2985.996	37.29	2.32	54.00	16.71	150	347	Horizontal
3	4924.000	40.19	-18.87	74.00	33.81	150	360	Horizontal
4	4924.000	28.27	-18.87	54.00	25.73	150	66	Horizontal
5	7386.000	35.94	-10.72	54.00	18.06	150	163	Horizontal
6	7386.000	47.08	-10.72	74.00	26.92	150	163	Horizontal
7	17530.97	46.96	0.75	54.00	7.04	150	31	Horizontal



## 4.9.2.1.8 802.11B\_ CH13\_ Horizontal



## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2690.4226	37.85	1.94	54.00	16.15	150	315	Horizontal
2	2764.4411	49.01	2.08	74.00	24.99	150	17	Horizontal
3	4944.0000	28.63	-18.76	54.00	25.37	150	18	Horizontal
4	4944.0000	40.28	-18.76	74.00	33.72	150	254	Horizontal
5	7416.0000	35.59	-10.64	54.00	18.41	150	18	Horizontal
6	7416.0000	46.86	-10.64	74.00	27.14	150	51	Horizontal
7	17556.9778	47.14	1.08	54.00	6.86	150	1	Horizontal



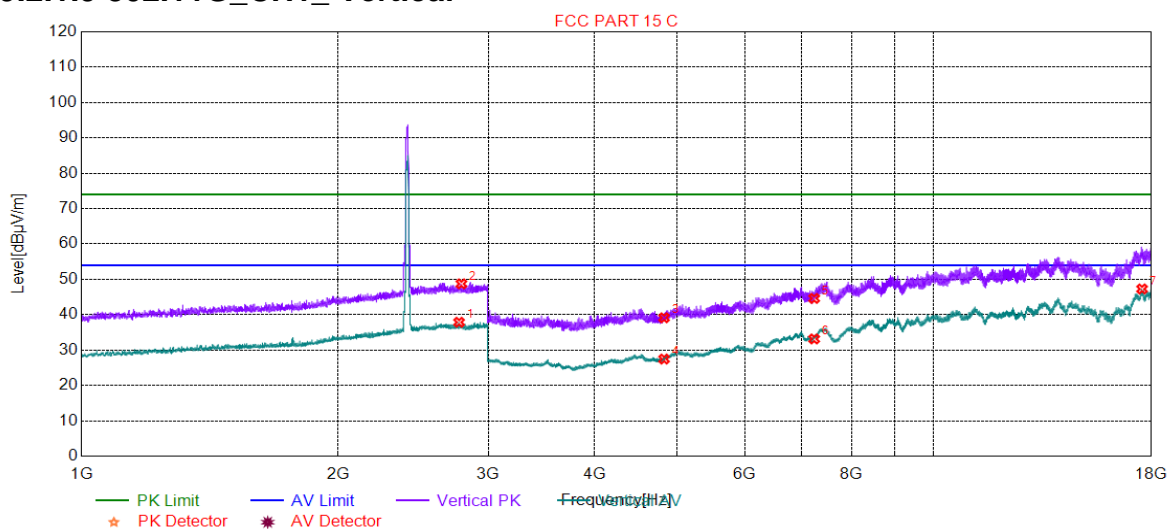
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## 4.9.2.1.9 802.11G\_CH1\_Vertical



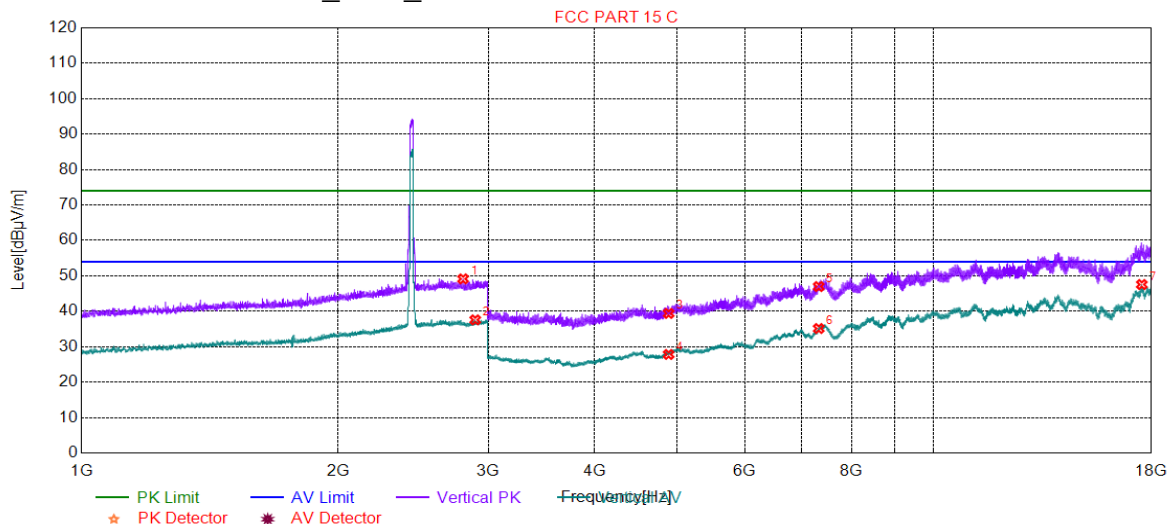
## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2772.9432	37.87	2.09	54.00	16.13	150	156	Vertical
2	2790.4476	48.73	2.12	74.00	25.27	150	272	Vertical
3	4824.0000	39.14	-20.09	74.00	34.86	150	18	Vertical
4	4824.0000	27.47	-20.09	54.00	26.53	150	182	Vertical
5	7236.0000	44.61	-12.40	74.00	29.39	150	18	Vertical
6	7236.0000	33.15	-12.40	54.00	20.85	150	246	Vertical
7	17546.4773	47.28	0.94	54.00	6.72	150	285	Vertical





## 4.9.2.1.10 802.11G\_CH6\_Vertical



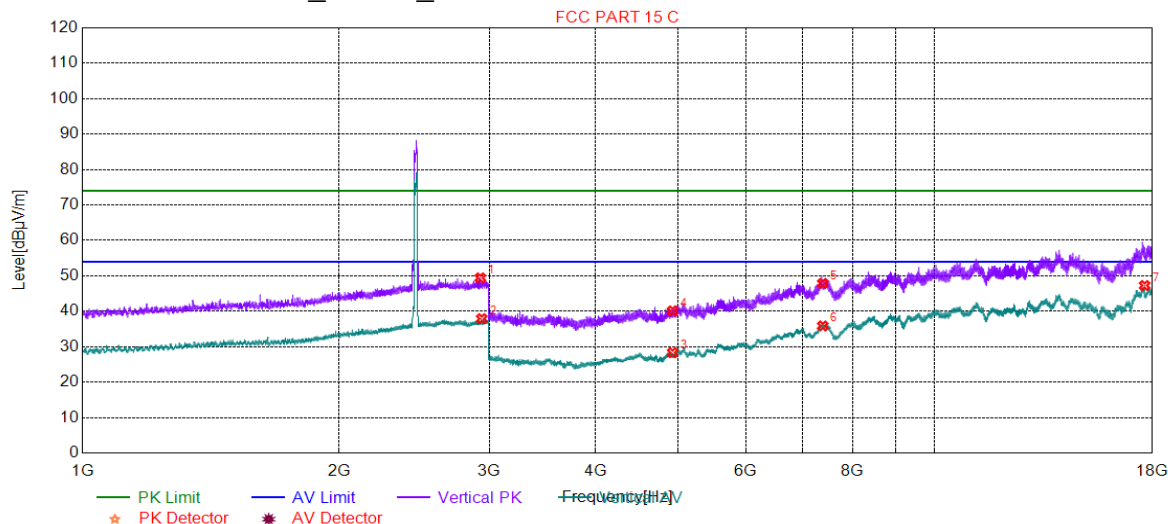
## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2802.9507	49.15	2.14	74.00	24.85	150	343	Vertical
2	2896.4741	37.58	2.26	54.00	16.42	150	319	Vertical
3	4884.0000	39.40	-19.23	74.00	34.60	150	358	Vertical
4	4884.0000	27.82	-19.23	54.00	26.18	150	358	Vertical
5	7326.0000	46.98	-11.35	74.00	27.02	150	51	Vertical
6	7326.0000	35.14	-11.35	54.00	18.86	150	18	Vertical
7	17534.9767	47.56	0.80	54.00	6.44	150	86	Vertical





#### 4.9.2.1.11 802.11G\_ CH11\_ Vertical

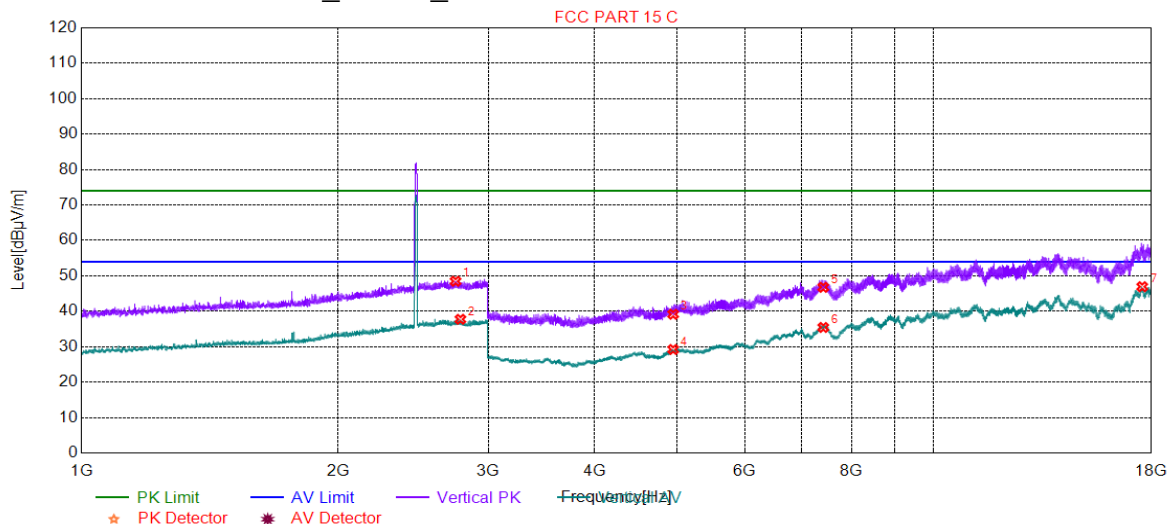


#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2928.982	49.43	2.28	74.00	24.57	150	226	Vertical
2	2939.985	37.92	2.29	54.00	16.08	150	327	Vertical
3	4924.000	28.33	-18.87	54.00	25.67	150	276	Vertical
4	4924.000	40.13	-18.87	74.00	33.87	150	18	Vertical
5	7386.000	47.86	-10.72	74.00	26.14	150	99	Vertical
6	7386.000	35.87	-10.72	54.00	18.13	150	66	Vertical
7	17622.48	47.27	1.05	54.00	6.73	150	144	Vertical



## 4.9.2.1.12 802.11G\_CH13\_Vertical

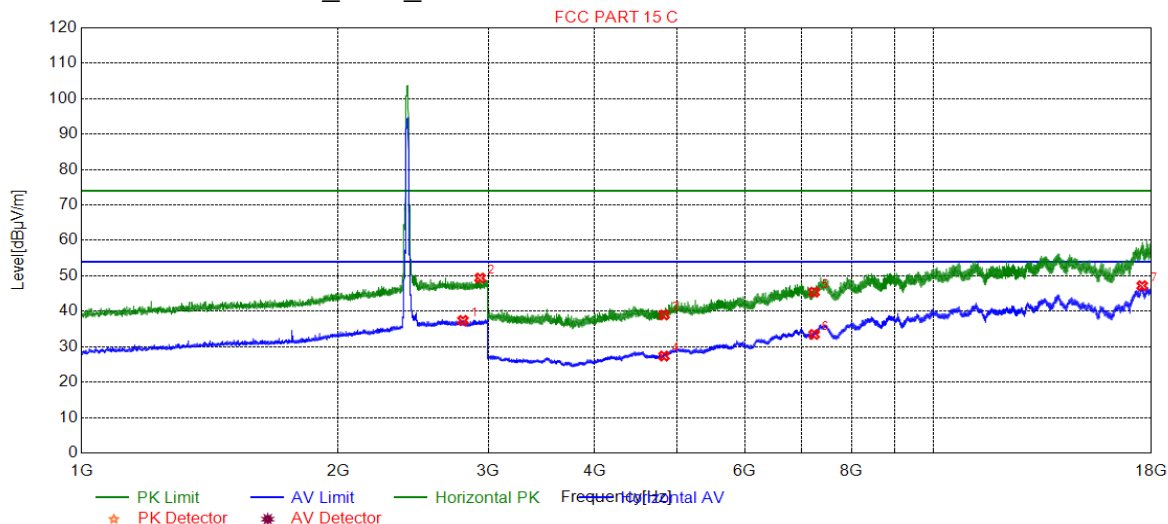


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2746.4366	48.48	2.04	74.00	25.52	150	335	Vertical
2	2782.9457	37.75	2.11	54.00	16.25	150	116	Vertical
3	4944.0000	39.17	-18.76	74.00	34.83	150	277	Vertical
4	4944.0000	29.23	-18.76	54.00	24.77	150	18	Vertical
5	7416.0000	46.77	-10.64	74.00	27.23	150	229	Vertical
6	7416.0000	35.44	-10.64	54.00	18.56	150	229	Vertical
7	17554.9777	46.94	1.05	54.00	7.06	150	342	Vertical



## 4.9.2.1.13 802.11G\_CH1\_Horizontal

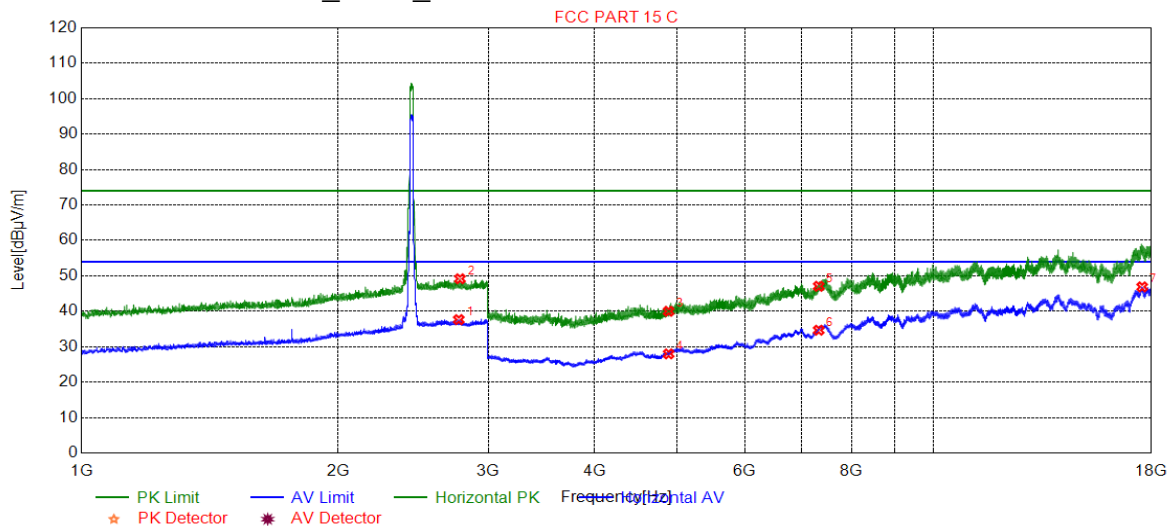


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2801.9505	37.41	2.14	54.00	16.59	150	199	Horizontal
2	2934.9837	49.39	2.28	74.00	24.61	150	65	Horizontal
3	4824.0000	38.97	-20.09	74.00	35.03	150	232	Horizontal
4	4824.0000	27.37	-20.09	54.00	26.63	150	83	Horizontal
5	7236.0000	45.40	-12.40	74.00	28.60	150	249	Horizontal
6	7236.0000	33.46	-12.40	54.00	20.54	150	132	Horizontal
7	17553.4777	47.22	1.03	54.00	6.78	150	225	Horizontal



## 4.9.2.1.14 802.11G\_CH6\_Horizontal



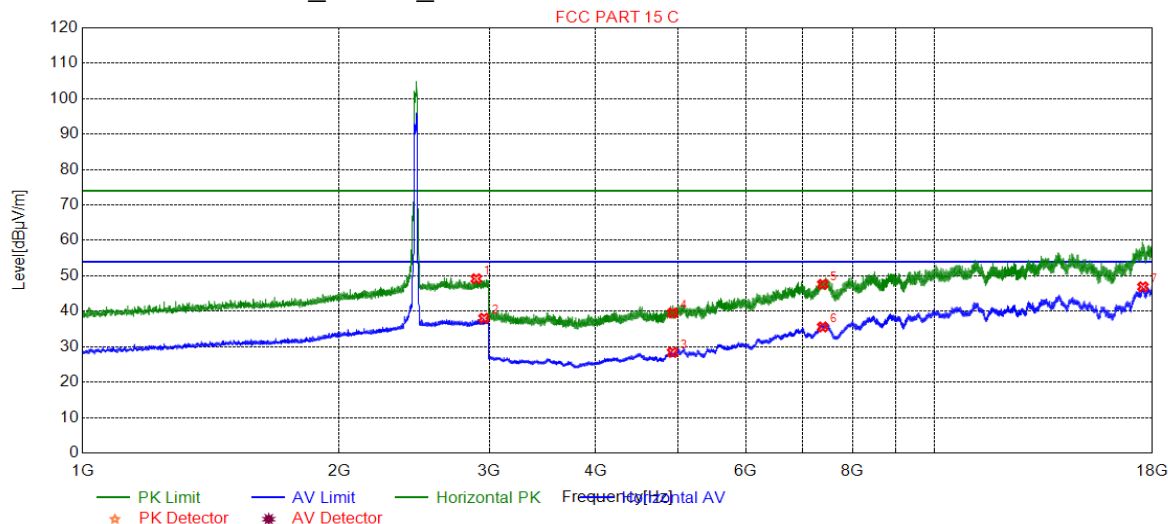
## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2770.4426	37.65	2.09	54.00	16.35	150	200	Horizontal
2	2779.4449	49.18	2.10	74.00	24.82	150	127	Horizontal
3	4884.0000	40.00	-19.23	74.00	34.00	150	217	Horizontal
4	4884.0000	27.98	-19.23	54.00	26.02	150	301	Horizontal
5	7326.0000	47.06	-11.35	74.00	26.94	150	150	Horizontal
6	7326.0000	34.66	-11.35	54.00	19.34	150	184	Horizontal
7	17552.4776	46.89	1.02	54.00	7.11	150	198	Horizontal





#### 4.9.2.1.15 802.11G\_ CH11\_ Horizontal



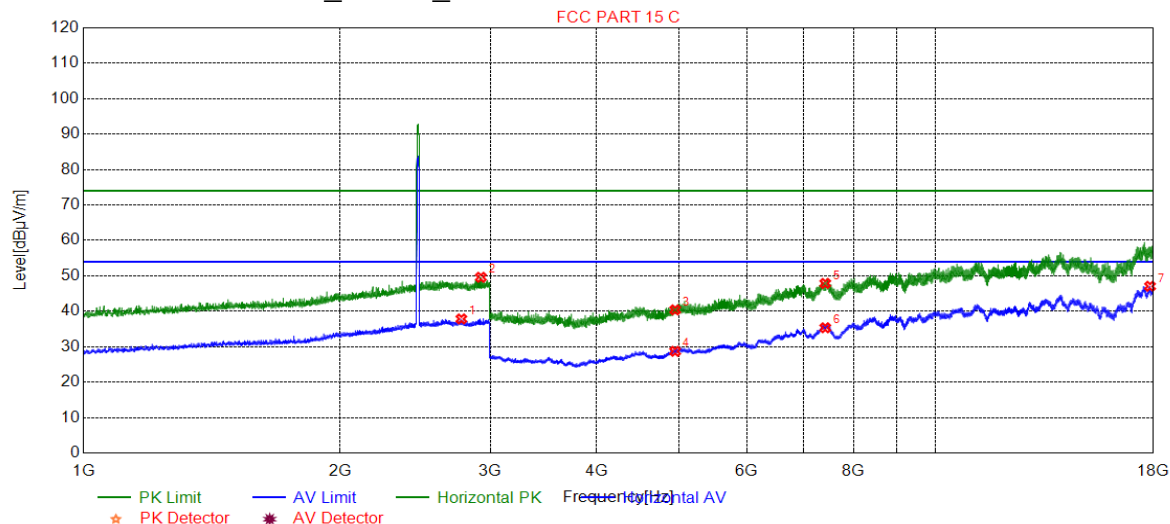
#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2896.974	49.18	2.26	74.00	24.82	150	268	Horizontal
2	2957.989	38.04	2.30	54.00	15.96	150	79	Horizontal
3	4924.000	28.41	-18.87	54.00	25.59	150	275	Horizontal
4	4924.000	39.54	-18.87	74.00	34.46	150	18	Horizontal
5	7386.000	47.62	-10.72	74.00	26.38	150	323	Horizontal
6	7386.000	35.58	-10.72	54.00	18.42	150	339	Horizontal
7	17541.47	46.91	0.88	54.00	7.09	150	4	Horizontal





## 4.9.2.1.16 802.11G\_CH13\_Horizontal

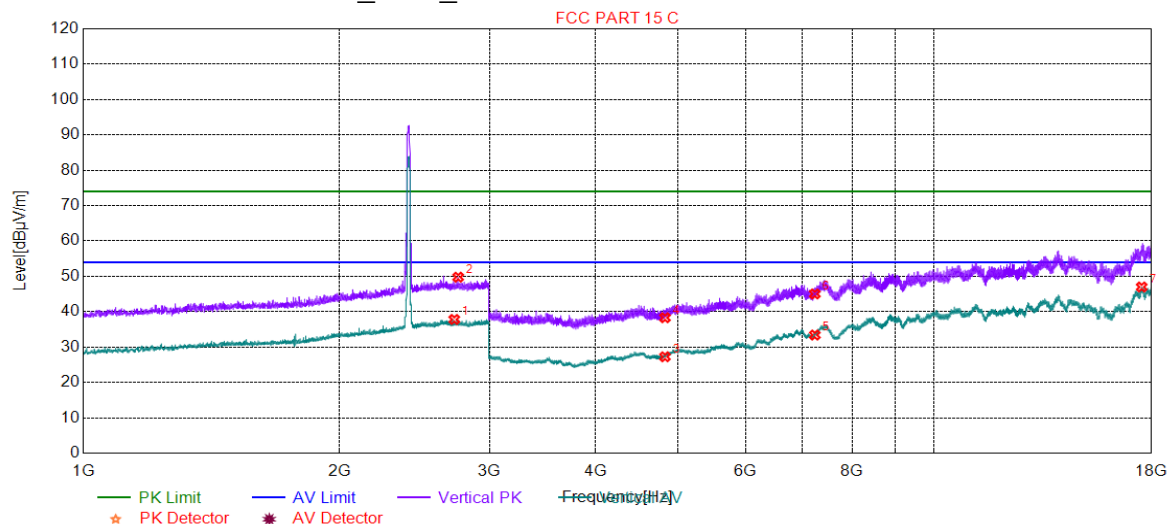


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2774.9437	37.84	2.09	54.00	16.16	150	111	Horizontal
2	2925.4814	49.60	2.28	74.00	24.40	150	309	Horizontal
3	4944.0000	40.40	-18.76	74.00	33.60	150	88	Horizontal
4	4944.0000	28.70	-18.76	54.00	25.30	150	291	Horizontal
5	7416.0000	47.88	-10.64	74.00	26.12	150	140	Horizontal
6	7416.0000	35.35	-10.64	54.00	18.65	150	124	Horizontal
7	17832.4916	47.06	-0.88	54.00	6.94	150	284	Horizontal



## 4.9.2.1.17 802.11N20\_CH1\_Vertical

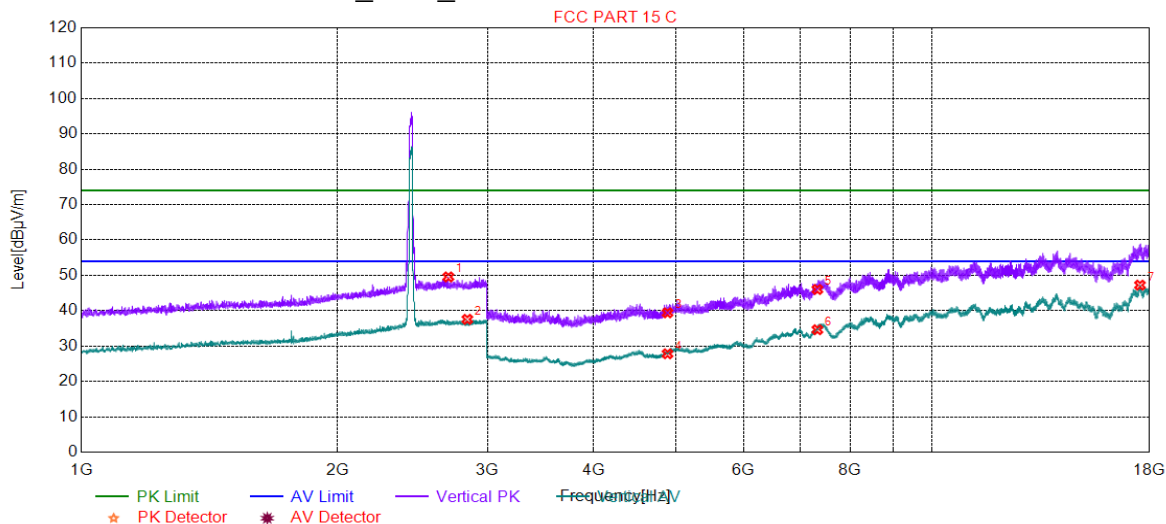


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2727.9320	37.81	2.01	54.00	16.19	150	8	Vertical
2	2756.9392	49.77	2.06	74.00	24.23	150	108	Vertical
3	4824.0000	27.26	-20.09	54.00	26.74	150	211	Vertical
4	4824.0000	38.30	-20.09	74.00	35.70	150	147	Vertical
5	7236.0000	33.40	-12.40	54.00	20.60	150	341	Vertical
6	7236.0000	45.03	-12.40	74.00	28.97	150	277	Vertical
7	17521.9761	46.99	0.63	54.00	7.01	150	142	Vertical



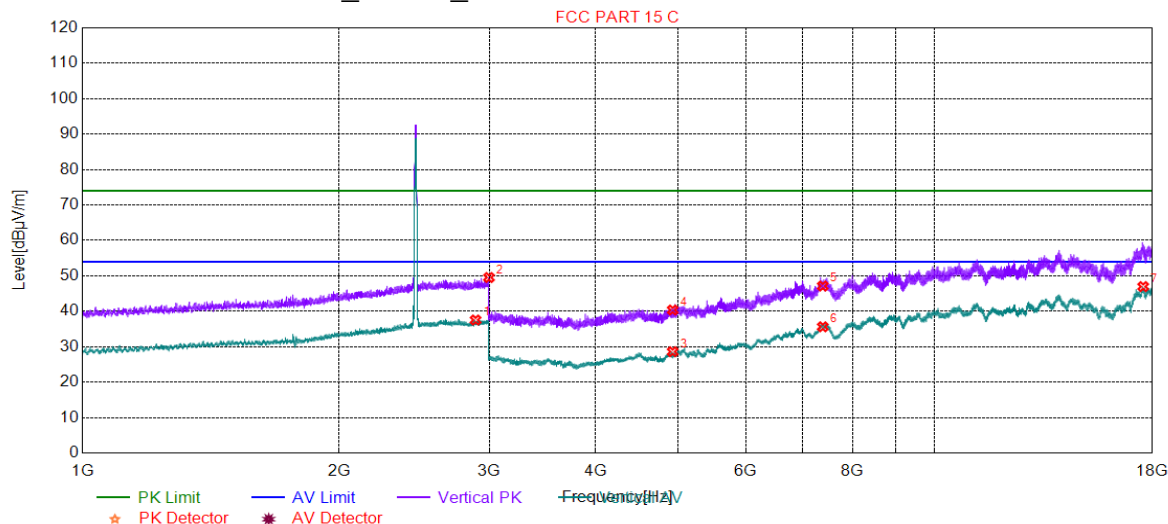
#### 4.9.2.1.18 802.11N20\_CH6\_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2699.4249	49.56	1.96	74.00	24.44	150	45	Vertical
2	2841.4604	37.57	2.19	54.00	16.43	150	115	Vertical
3	4884.0000	39.41	-19.23	74.00	34.59	150	34	Vertical
4	4884.0000	27.82	-19.23	54.00	26.18	150	118	Vertical
5	7326.0000	46.01	-11.35	74.00	27.99	150	18	Vertical
6	7326.0000	34.63	-11.35	54.00	19.37	150	18	Vertical
7	17537.4769	47.24	0.83	54.00	6.76	150	16	Vertical



#### 4.9.2.1.19 802.11N20\_ CH11\_ Vertical



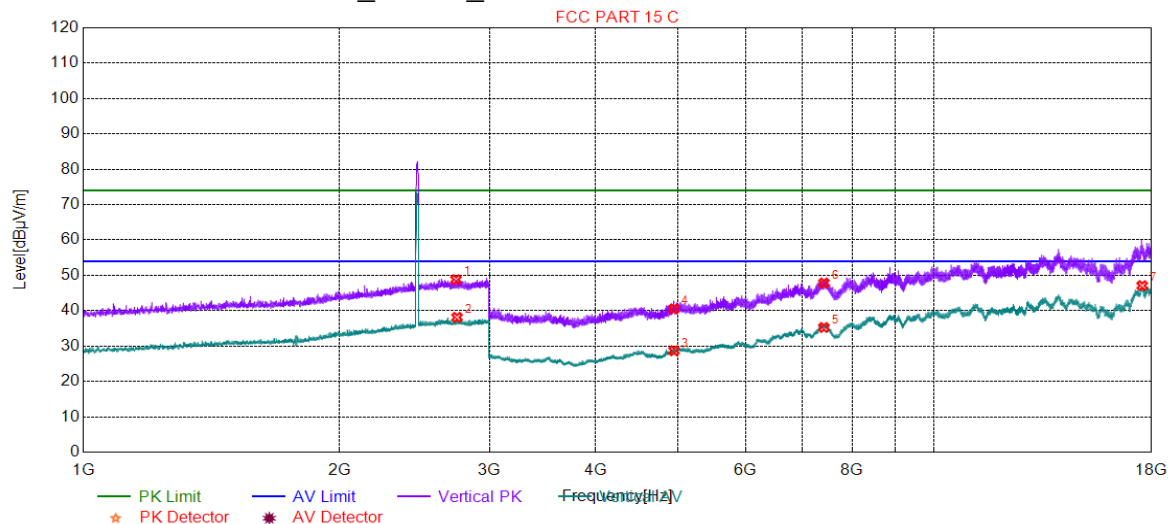
#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2891.472	37.54	2.25	54.00	16.46	150	288	Vertical
2	2997.999	49.53	2.33	74.00	24.47	150	210	Vertical
3	4924.000	28.59	-18.87	54.00	25.41	150	280	Vertical
4	4924.000	40.36	-18.87	74.00	33.64	150	183	Vertical
5	7386.000	47.12	-10.72	74.00	26.88	150	344	Vertical
6	7386.000	35.63	-10.72	54.00	18.37	150	34	Vertical
7	17551.97	46.97	1.02	54.00	7.03	150	4	Vertical





## 4.9.2.1.20 802.11N20\_ CH13\_ Vertical

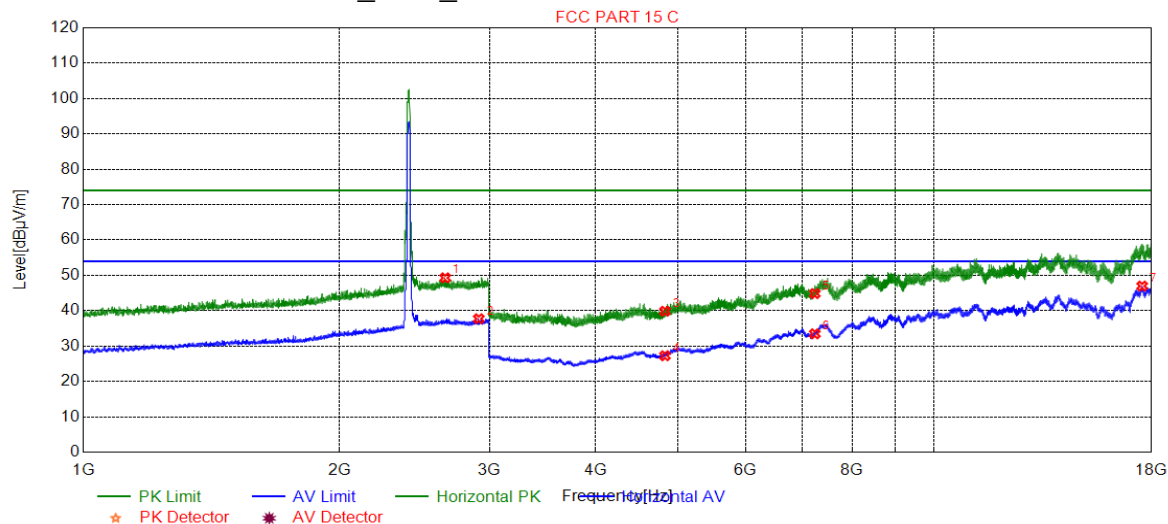


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2740.9352	48.80	2.03	74.00	25.20	150	170	Vertical
2	2748.4371	38.13	2.05	54.00	15.87	150	288	Vertical
3	4944.0000	28.69	-18.76	54.00	25.31	150	78	Vertical
4	4944.0000	40.53	-18.76	74.00	33.47	150	114	Vertical
5	7416.0000	35.26	-10.64	54.00	18.74	150	289	Vertical
6	7416.0000	47.84	-10.64	74.00	26.16	150	271	Vertical
7	17545.9773	47.09	0.94	54.00	6.91	150	342	Vertical



## 4.9.2.1.21 802.11N20\_CH1\_ Horizontal

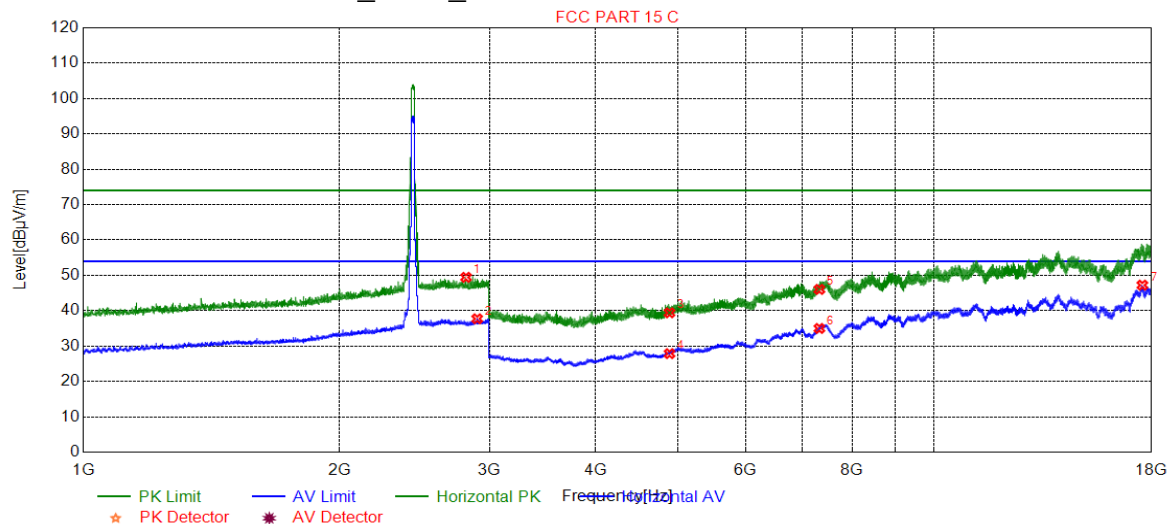


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2661.9155	49.30	1.88	74.00	24.70	150	189	Horizontal
2	2914.9787	37.73	2.27	54.00	16.27	150	127	Horizontal
3	4824.0000	39.86	-20.09	74.00	34.14	150	339	Horizontal
4	4824.0000	27.26	-20.09	54.00	26.74	150	106	Horizontal
5	7236.0000	44.84	-12.40	74.00	29.16	150	306	Horizontal
6	7236.0000	33.47	-12.40	54.00	20.53	150	206	Horizontal
7	17544.9772	46.97	0.93	54.00	7.03	150	2	Horizontal



## 4.9.2.1.22 802.11N20\_ CH6\_ Horizontal



## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2816.4541	49.44	2.16	74.00	24.56	150	213	Horizontal
2	2902.4756	37.72	2.26	54.00	16.28	150	299	Horizontal
3	4884.0000	39.41	-19.23	74.00	34.59	150	123	Horizontal
4	4884.0000	27.87	-19.23	54.00	26.13	150	172	Horizontal
5	7326.0000	46.03	-11.35	74.00	27.97	150	255	Horizontal
6	7326.0000	34.99	-11.35	54.00	19.01	150	18	Horizontal
7	17553.9777	47.23	1.04	54.00	6.77	150	2	Horizontal



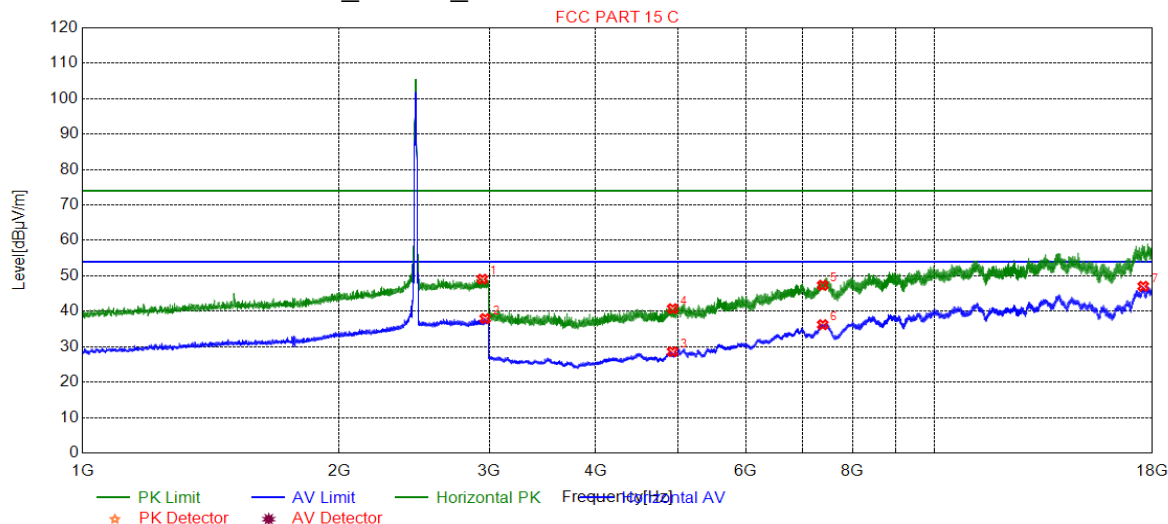
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#### 4.9.2.1.23 802.11N20\_ CH11\_ Horizontal



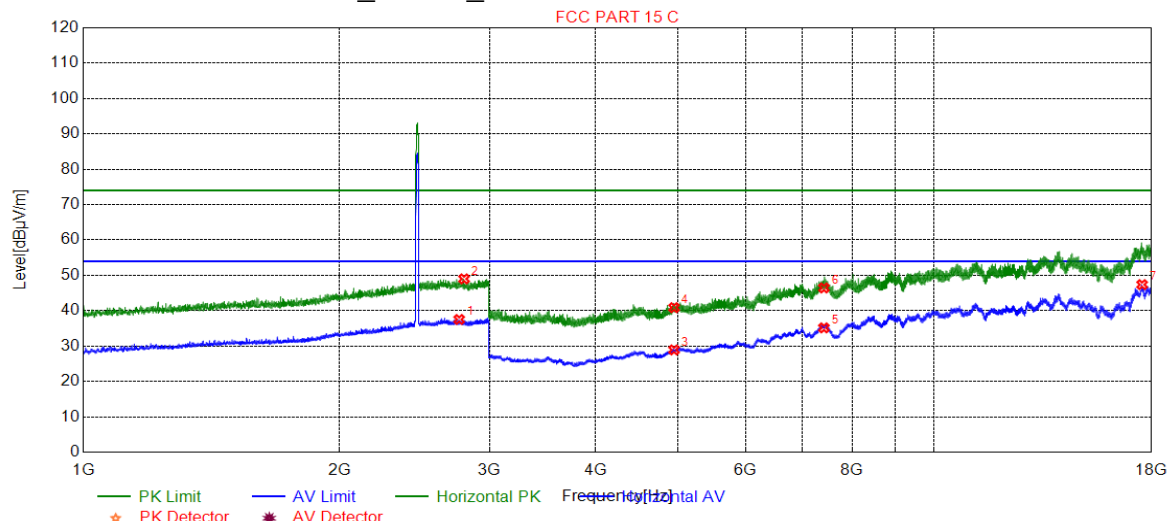
#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2944.986	49.08	2.29	74.00	24.92	150	72	Horizontal
2	2967.491	37.94	2.31	54.00	16.06	150	251	Horizontal
3	4924.000	28.61	-18.87	54.00	25.39	150	291	Horizontal
4	4924.000	40.73	-18.87	74.00	33.27	150	339	Horizontal
5	7386.000	47.32	-10.72	74.00	26.68	150	354	Horizontal
6	7386.000	36.22	-10.72	54.00	17.78	150	67	Horizontal
7	17554.47	47.05	1.05	54.00	6.95	150	342	Horizontal





#### 4.9.2.1.24 802.11N20\_ CH13\_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2764.4411	37.53	2.08	54.00	16.47	150	49	Horizontal
2	2801.4504	49.00	2.14	74.00	25.00	150	275	Horizontal
3	4944.0000	28.92	-18.76	54.00	25.08	150	310	Horizontal
4	4944.0000	40.87	-18.76	74.00	33.13	150	340	Horizontal
5	7416.0000	35.15	-10.64	54.00	18.85	150	139	Horizontal
6	7416.0000	46.44	-10.64	74.00	27.56	150	155	Horizontal
7	17541.9771	47.38	0.89	54.00	6.62	150	307	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 CH11 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:			

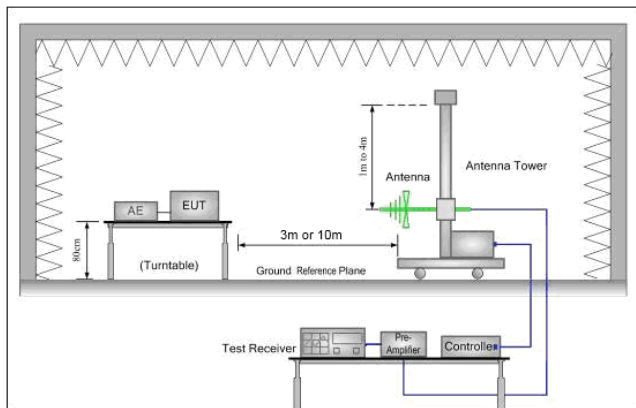


Figure 1. 30MHz to 1GHz

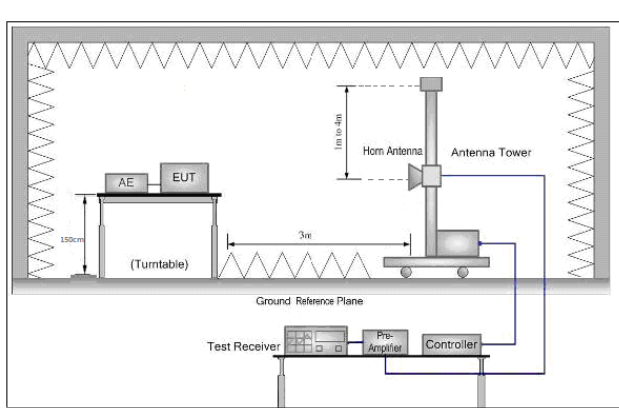


Figure 2. Above 1 GHz



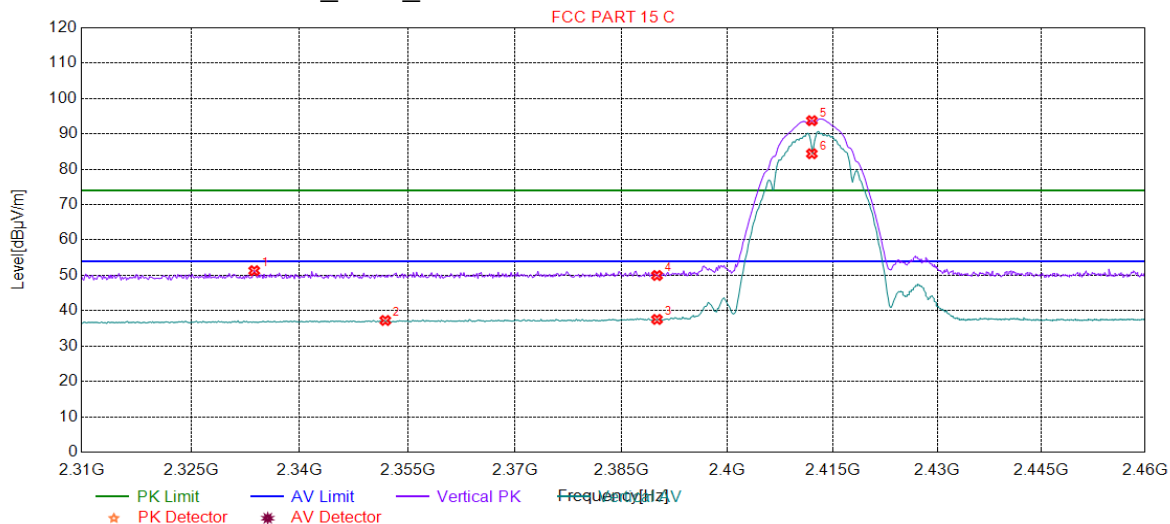
Test Procedure:	<p>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the CH11 radiation.</p> <p>b. For above 1GHz, the EUT was placed on the top of a 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 CH11 radiation.</p> <p>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.</p> <p>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.</p> <p>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 rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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 CH1 and CH11</p> <p>h. Test the EUT in the CH1, the CH11</p> <p>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.</p> <p>j. 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>6.5Mbps of rate is the worst case of 802.11N(HT20);</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



Test plot as follows:

#### 4.10.1 ANT1

##### 4.10.1.1 802.11B\_CH1\_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2333.7237	51.32	1.00	74.00	22.68	150	62	Vertical
2	2351.8919	37.24	1.08	54.00	16.76	150	38	Vertical
3	2390.0000	37.54	1.25	54.00	16.46	150	147	Vertical
4	2390.0000	49.96	1.25	74.00	24.04	150	184	Vertical
5	2412.0000	93.74	1.32	74.00	-19.74	150	298	Vertical
6	2412.0000	84.39	1.32	54.00	-30.39	150	301	Vertical



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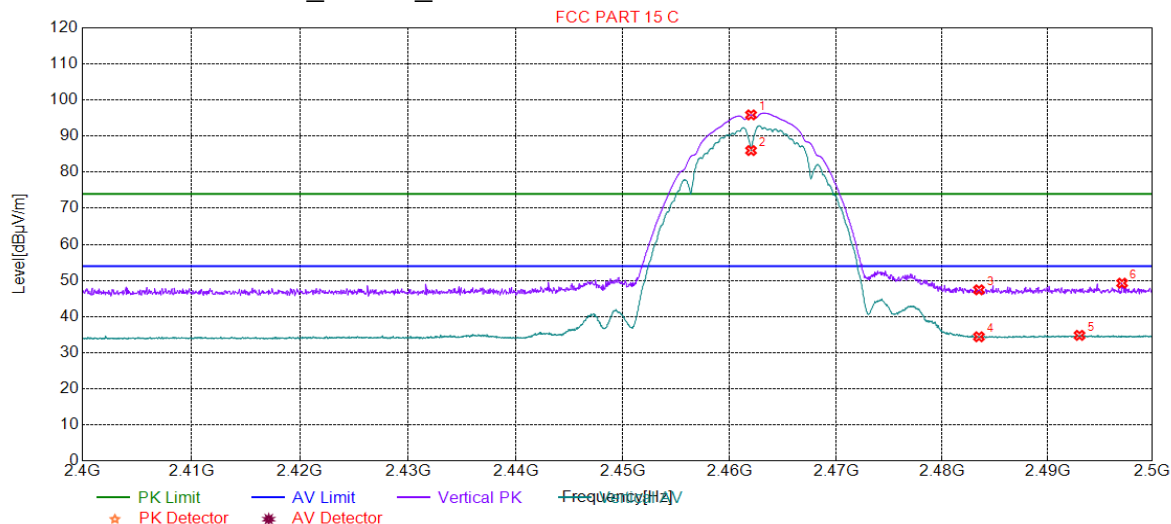
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#### 4.10.1.2 802.11B\_ CH11\_ Vertical



#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	95.88	1.46	74.00	-21.88	150	2	Vertical
2	2462.000	86.00	1.46	54.00	-32.00	150	0	Vertical
3	2483.500	47.41	1.52	74.00	26.59	150	72	Vertical
4	2483.500	34.41	1.52	54.00	19.59	150	110	Vertical
5	2493.046	34.80	1.55	54.00	19.20	150	226	Vertical
6	2497.098	49.26	1.56	74.00	24.74	150	165	Vertical



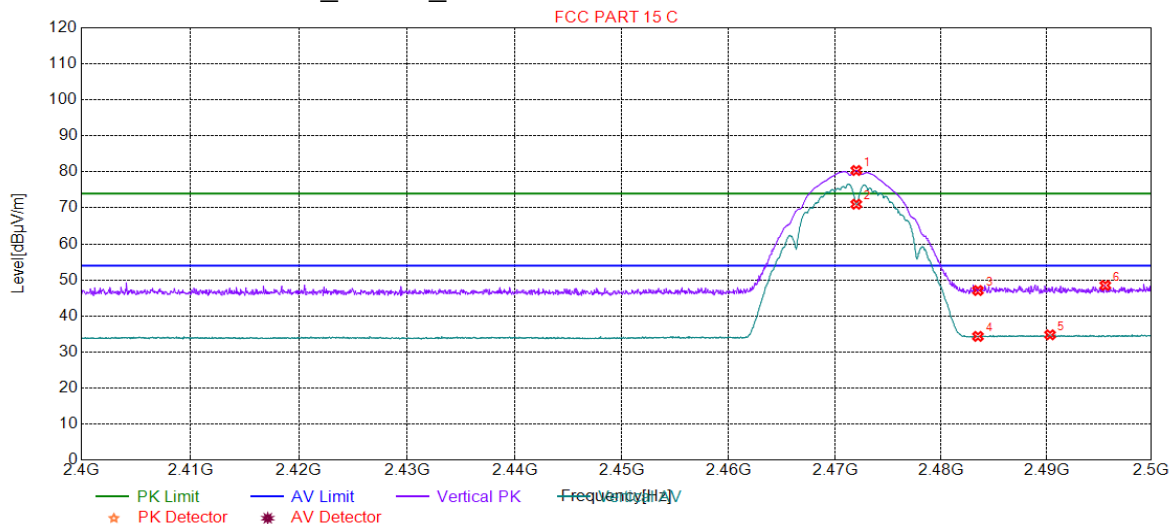
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#### 4.10.1.3 802.11B\_ CH13\_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.0000	80.39	1.49	74.00	-6.39	150	6	Vertical
2	2472.0000	71.02	1.49	54.00	-17.02	150	6	Vertical
3	2483.5000	47.07	1.52	74.00	26.93	150	89	Vertical
4	2483.5000	34.34	1.52	54.00	19.66	150	346	Vertical
5	2490.3452	34.78	1.54	54.00	19.22	150	331	Vertical
6	2495.5978	48.49	1.56	74.00	25.51	150	101	Vertical



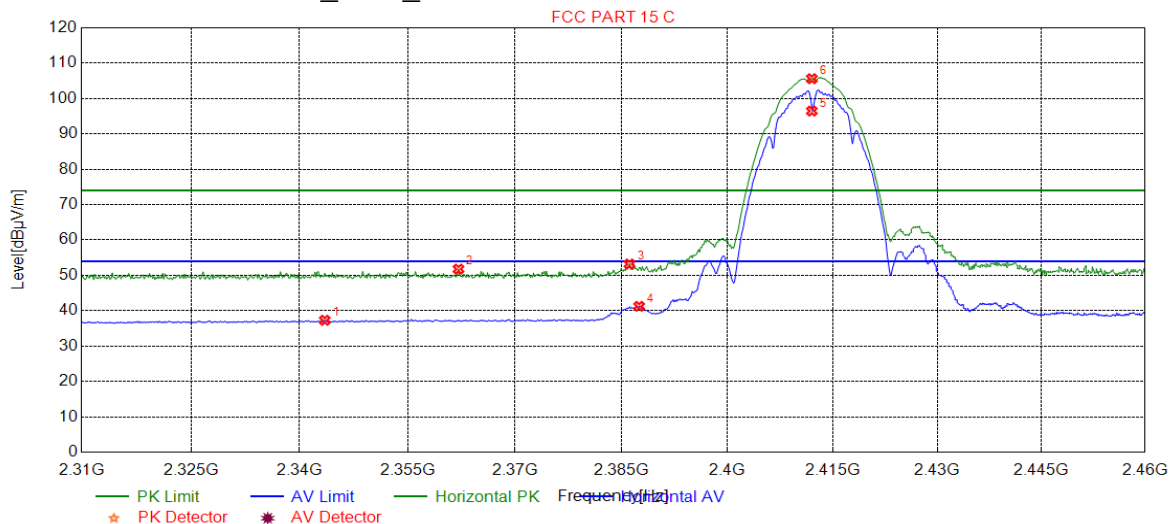
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## 4.10.1.4 802.11B\_CH1\_ Horizontal

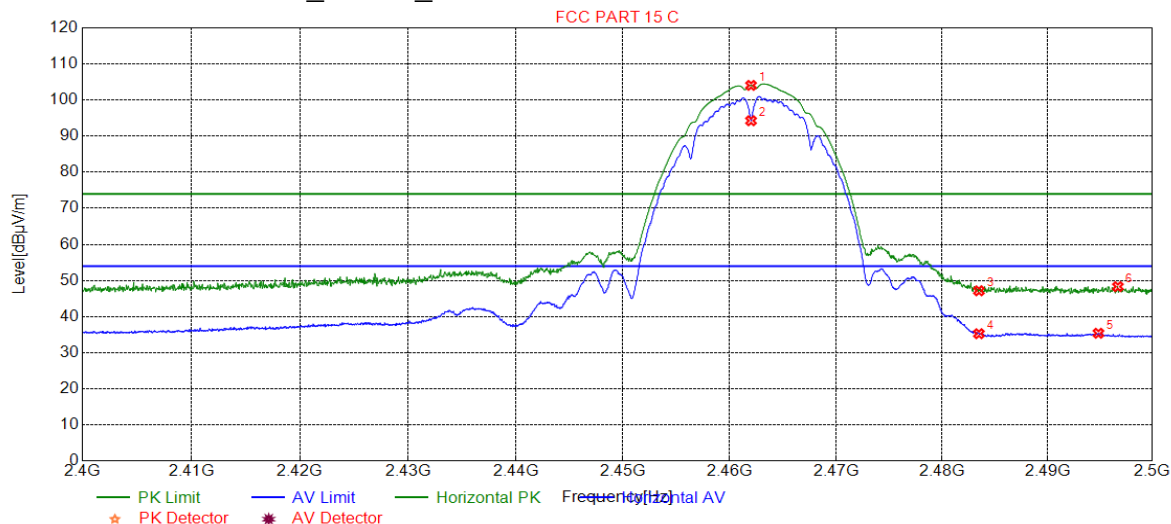


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2343.4835	37.30	1.04	54.00	16.70	150	117	Horizontal
2	2362.1021	51.77	1.12	74.00	22.23	150	198	Horizontal
3	2386.1261	53.20	1.23	74.00	20.80	150	216	Horizontal
4	2387.4775	41.25	1.23	54.00	12.75	150	213	Horizontal
5	2412.0000	96.47	1.32	54.00	-42.47	150	210	Horizontal
6	2412.0000	105.60	1.32	74.00	-31.60	150	213	Horizontal



## 4.10.1.5 802.11B\_ CH11\_ Horizontal



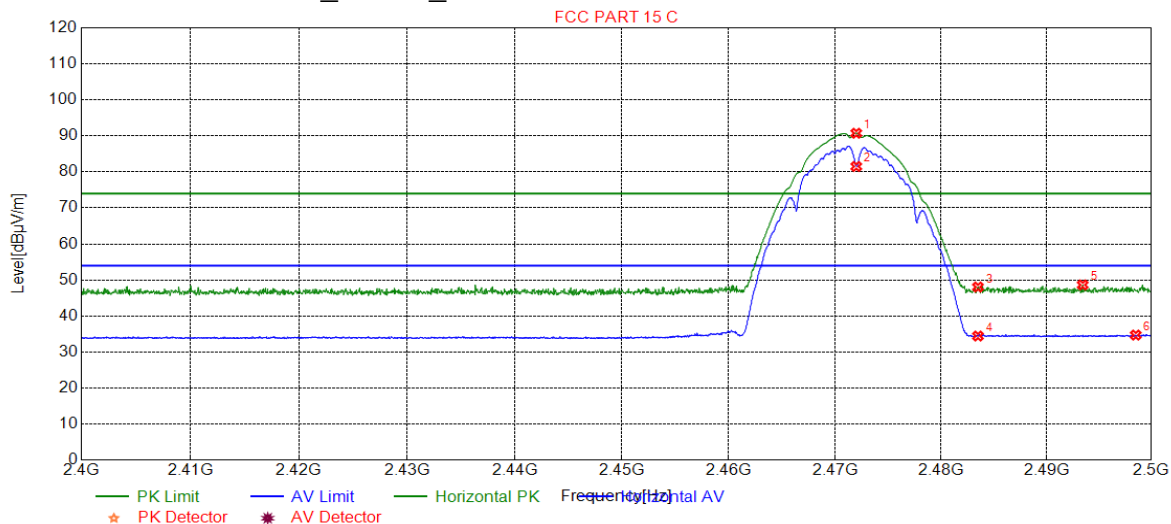
## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	104.05	1.46	74.00	-30.05	150	216	Horizontal
2	2462.000	94.26	1.46	54.00	-40.26	150	220	Horizontal
3	2483.500	47.15	1.52	74.00	26.85	150	236	Horizontal
4	2483.500	35.26	1.52	54.00	18.74	150	208	Horizontal
5	2494.847	35.38	1.56	54.00	18.62	150	220	Horizontal
6	2496.698	48.30	1.56	74.00	25.70	150	113	Horizontal





## 4.10.1.6 802.11B\_ CH13\_ Horizontal

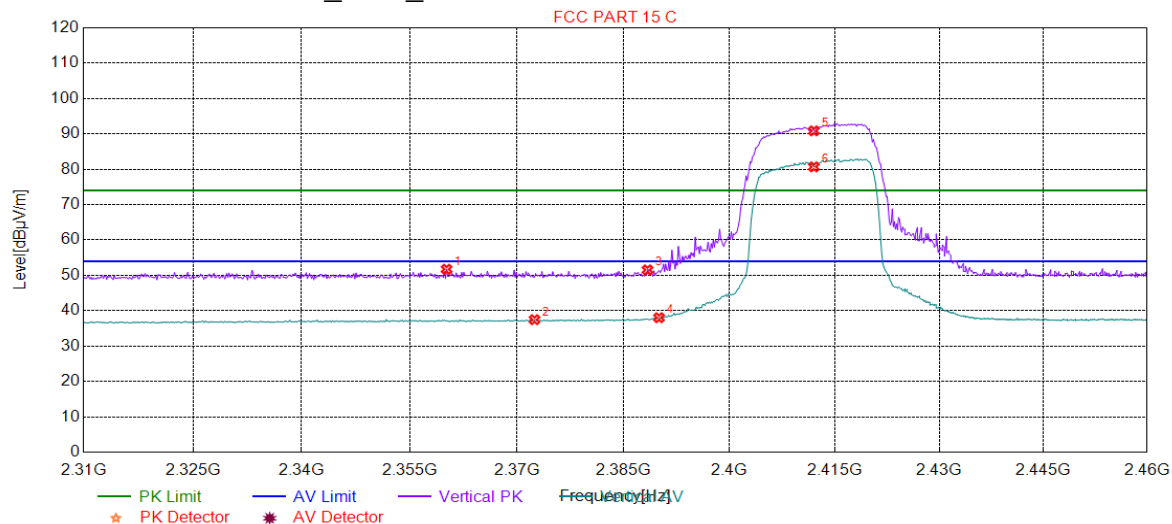


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.0000	90.73	1.49	74.00	-16.73	150	218	Horizontal
2	2472.0000	81.50	1.49	54.00	-27.50	150	218	Horizontal
3	2483.5000	48.04	1.52	74.00	25.96	150	263	Horizontal
4	2483.5000	34.44	1.52	54.00	19.56	150	252	Horizontal
5	2493.4467	48.63	1.55	74.00	25.37	150	210	Horizontal
6	2498.4993	34.70	1.57	54.00	19.30	150	36	Horizontal



#### 4.10.1.7 802.11G\_CH1\_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2360.1502	51.73	1.11	74.00	22.27	150	319	Vertical
2	2372.4625	37.47	1.17	54.00	16.53	150	129	Vertical
3	2388.3784	51.54	1.24	74.00	22.46	150	328	Vertical
4	2390.0000	38.03	1.25	54.00	15.97	150	189	Vertical
5	2412.0000	90.85	1.32	74.00	-16.85	150	292	Vertical
6	2412.0000	80.67	1.32	54.00	-26.67	150	189	Vertical



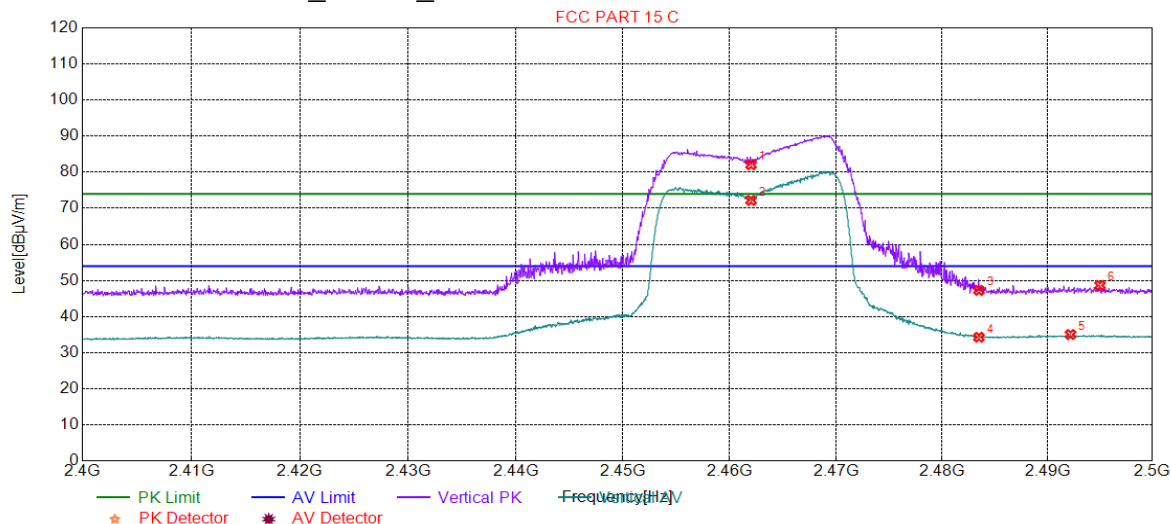
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## 4.10.1.8 802.11G\_ CH11\_ Vertical



## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	82.07	1.46	74.00	-8.07	150	289	Vertical
2	2462.000	72.18	1.46	54.00	-18.18	150	289	Vertical
3	2483.500	47.26	1.52	74.00	26.74	150	3	Vertical
4	2483.500	34.28	1.52	54.00	19.72	150	346	Vertical
5	2492.196	35.04	1.55	54.00	18.96	150	228	Vertical
6	2494.997	48.64	1.56	74.00	25.36	150	320	Vertical



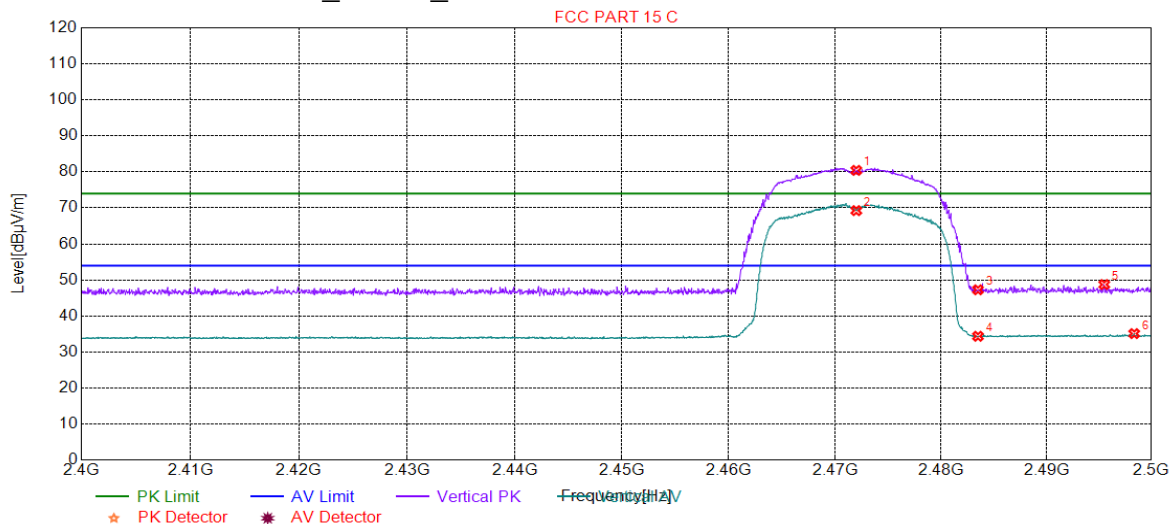
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#### 4.10.1.9 802.11G\_ CH13\_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.0000	80.42	1.49	74.00	-6.42	150	224	Vertical
2	2472.0000	69.25	1.49	54.00	-15.25	150	228	Vertical
3	2483.5000	47.27	1.52	74.00	26.73	150	17	Vertical
4	2483.5000	34.37	1.52	54.00	19.63	150	17	Vertical
5	2495.4977	48.73	1.56	74.00	25.27	150	168	Vertical
6	2498.3492	35.11	1.57	54.00	18.89	150	17	Vertical



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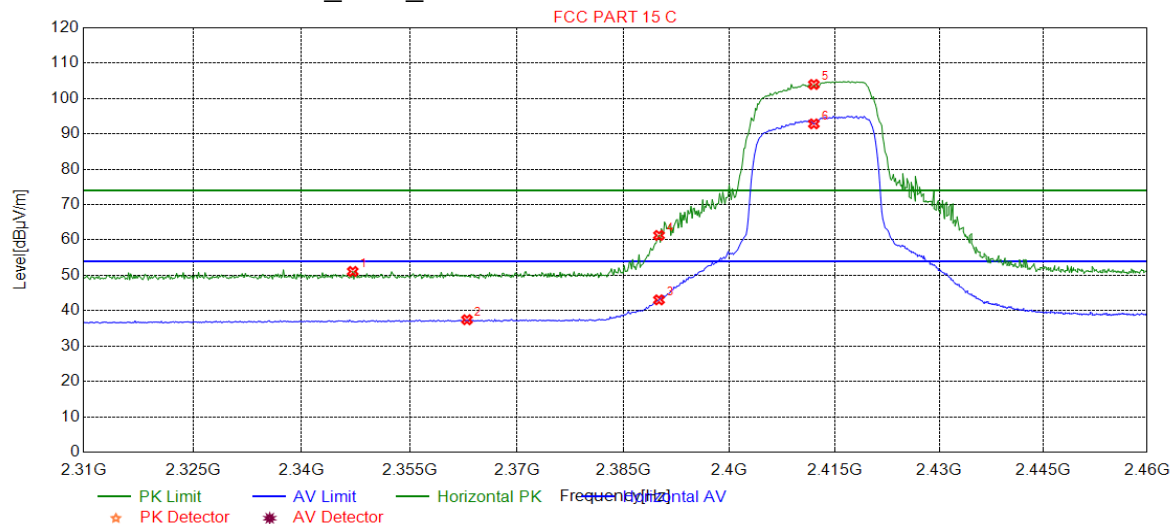
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#### 4.10.1.10 802.11G\_CH1\_Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2347.0871	51.10	1.06	74.00	22.90	150	62	Horizontal
2	2363.0030	37.46	1.13	54.00	16.54	150	146	Horizontal
3	2390.0000	43.06	1.25	54.00	10.94	150	218	Horizontal
4	2390.0000	61.30	1.25	74.00	12.70	150	218	Horizontal
5	2412.0000	103.97	1.32	74.00	-29.97	150	218	Horizontal
6	2412.0000	92.83	1.32	54.00	-38.83	150	218	Horizontal



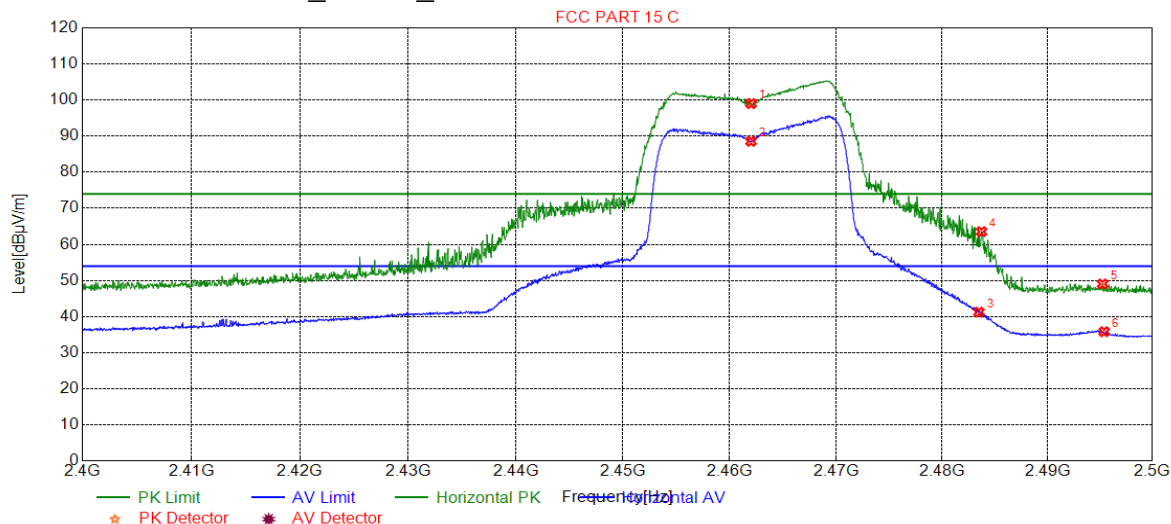
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## 4.10.1.11 802.11G\_ CH11\_ Horizontal

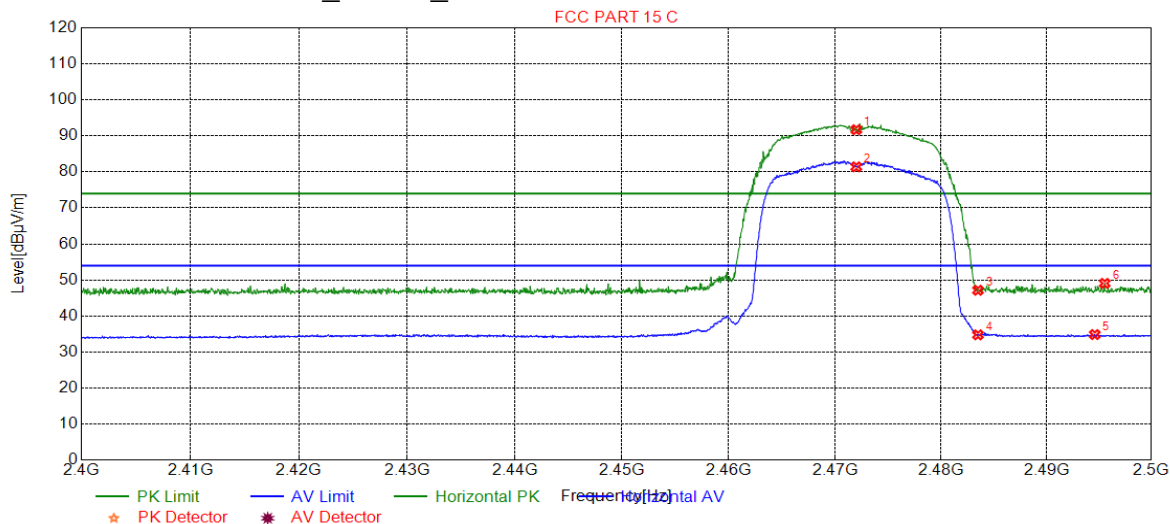


## Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	99.01	1.46	74.00	-25.01	150	224	Horizontal
2	2462.000	88.56	1.46	54.00	-34.56	150	212	Horizontal
3	2483.500	41.23	1.52	54.00	12.77	150	220	Horizontal
4	2483.741	63.53	1.52	74.00	10.47	150	205	Horizontal
5	2495.247	49.04	1.56	74.00	24.96	150	216	Horizontal
6	2495.397	35.81	1.56	54.00	18.19	150	212	Horizontal



#### 4.10.1.12 802.11G\_ CH13\_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.0000	91.71	1.49	74.00	-17.71	150	218	Horizontal
2	2472.0000	81.40	1.49	54.00	-27.40	150	210	Horizontal
3	2483.5000	47.14	1.52	74.00	26.86	150	218	Horizontal
4	2483.5000	34.77	1.52	54.00	19.23	150	210	Horizontal
5	2494.5973	34.84	1.55	54.00	19.16	150	264	Horizontal
6	2495.5478	49.06	1.56	74.00	24.94	150	71	Horizontal



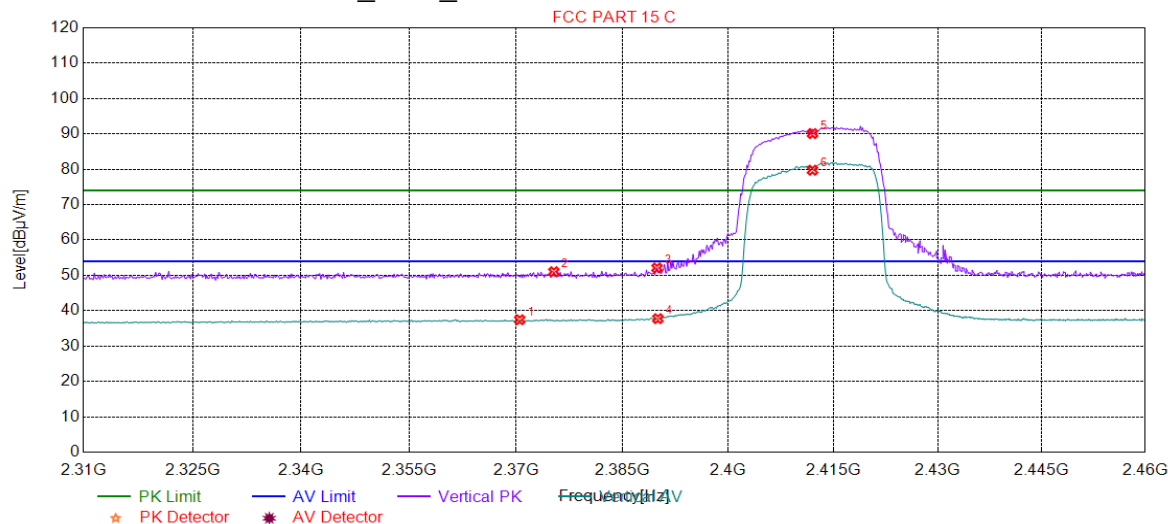
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#### 4.10.1.13 802.11N20\_CH1\_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.5105	37.46	1.16	54.00	16.54	150	346	Vertical
2	2375.3153	51.03	1.18	74.00	22.97	150	175	Vertical
3	2389.8799	52.09	1.25	74.00	21.91	150	25	Vertical
4	2390.0000	37.76	1.25	54.00	16.24	150	316	Vertical
5	2412.0000	90.09	1.32	74.00	-16.09	150	34	Vertical
6	2412.0000	79.73	1.32	54.00	-25.73	150	31	Vertical



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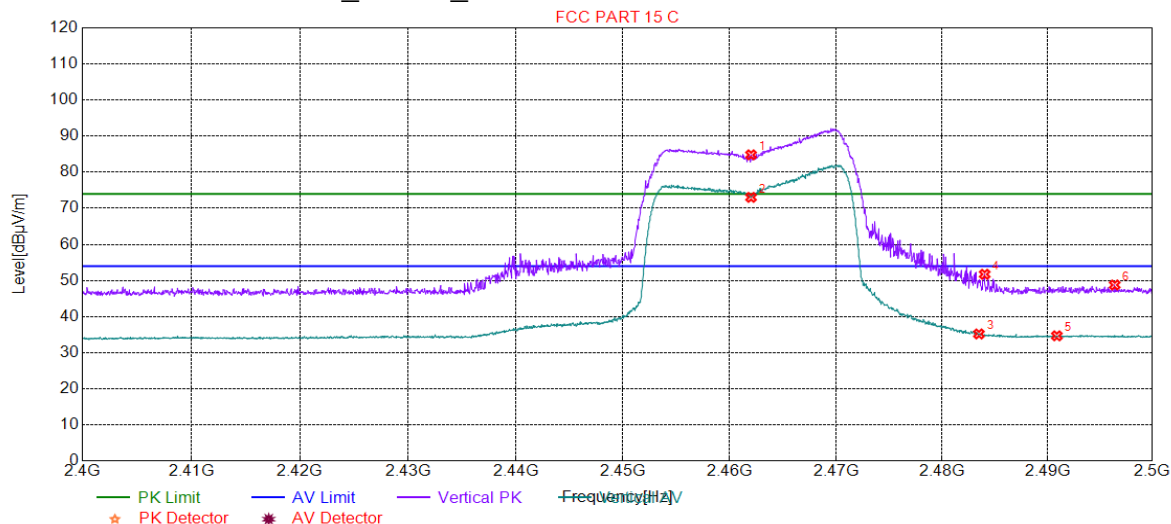
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#### 4.10.1.14 802.11N20\_ CH11\_ Vertical

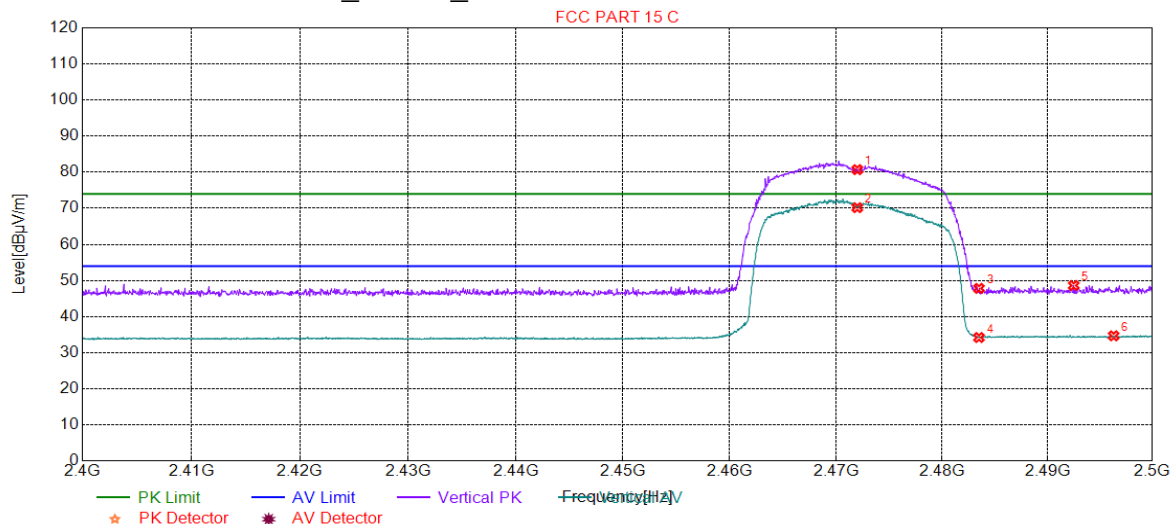


#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	84.82	1.46	74.00	-10.82	150	43	Vertical
2	2462.000	73.03	1.46	54.00	-19.03	150	39	Vertical
3	2483.500	35.19	1.52	54.00	18.81	150	8	Vertical
4	2484.042	51.72	1.53	74.00	22.28	150	2	Vertical
5	2490.895	34.67	1.54	54.00	19.33	150	73	Vertical
6	2496.398	48.76	1.56	74.00	25.24	150	121	Vertical



#### 4.10.1.15 802.11N20\_ CH13\_ Vertical



#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.000	80.71	1.49	74.00	-6.71	150	28	Vertical
2	2472.000	70.18	1.49	54.00	-16.18	150	35	Vertical
3	2483.500	47.82	1.52	74.00	26.18	150	315	Vertical
4	2483.500	34.20	1.52	54.00	19.80	150	16	Vertical
5	2492.496	48.62	1.55	74.00	25.38	150	183	Vertical
6	2496.298	34.67	1.56	54.00	19.33	150	236	Vertical



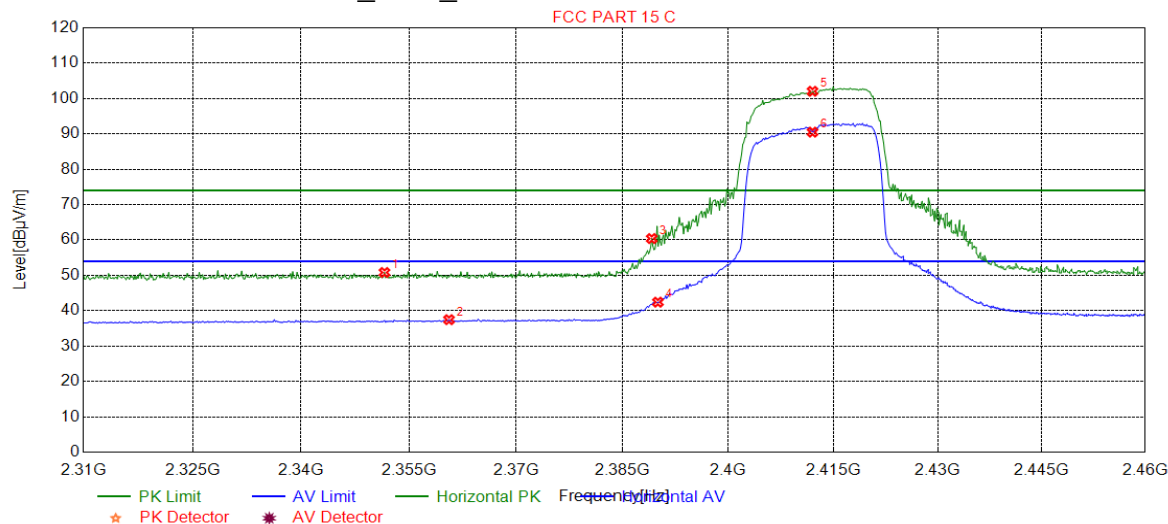
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#### 4.10.1.16 802.11N20\_CH1\_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2351.5916	50.81	1.08	74.00	23.19	150	37	Horizontal
2	2360.6006	37.47	1.12	54.00	16.53	150	14	Horizontal
3	2389.1291	60.40	1.24	74.00	13.60	150	211	Horizontal
4	2390.0000	42.42	1.25	54.00	11.58	150	214	Horizontal
5	2412.0000	102.04	1.32	74.00	-28.04	150	214	Horizontal
6	2412.0000	90.49	1.32	54.00	-36.49	150	211	Horizontal



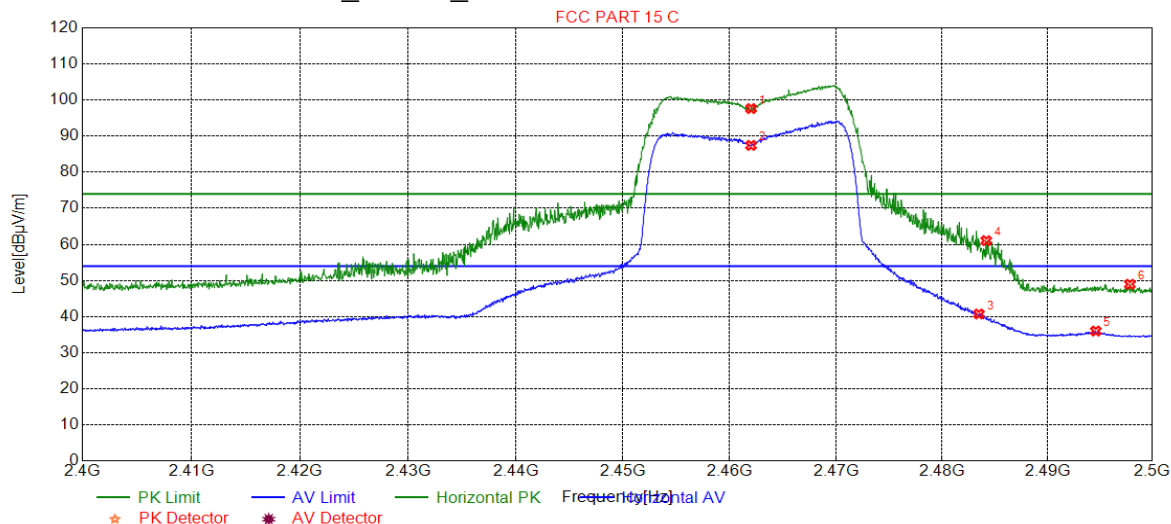
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#### 4.10.1.17 802.11N20\_ CH11\_ Horizontal



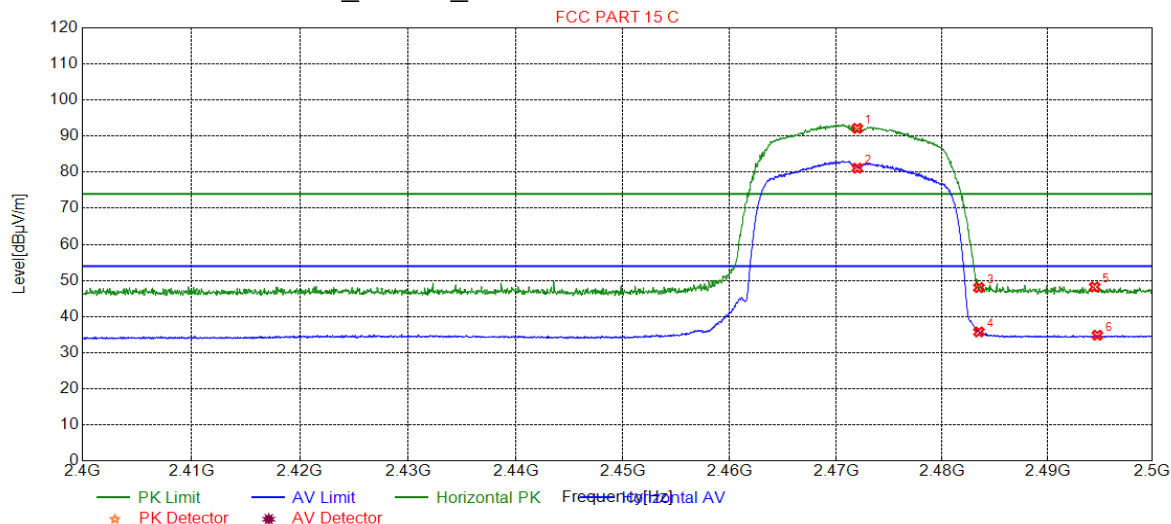
#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	97.64	1.46	74.00	-23.64	150	207	Horizontal
2	2462.000	87.43	1.46	54.00	-33.43	150	215	Horizontal
3	2483.500	40.72	1.52	54.00	13.28	150	215	Horizontal
4	2484.192	61.04	1.53	74.00	12.96	150	207	Horizontal
5	2494.597	36.00	1.55	54.00	18.00	150	215	Horizontal
6	2497.848	48.95	1.56	74.00	25.05	150	327	Horizontal





#### 4.10.1.18 802.11N20\_ CH13\_ Horizontal



#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.000	92.14	1.49	74.00	-18.14	150	219	Horizontal
2	2472.000	81.12	1.49	54.00	-27.12	150	208	Horizontal
3	2483.500	48.03	1.52	74.00	25.97	150	245	Horizontal
4	2483.500	35.75	1.52	54.00	18.25	150	215	Horizontal
5	2494.497	48.22	1.55	74.00	25.78	150	245	Horizontal
6	2494.747	34.84	1.56	54.00	19.16	150	78	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.



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

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



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## 6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/3/2	2020/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1
RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2018/9/15	2019/9/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/13	2019/7/12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2018/7/12	2019/7/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(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	2018/7/12	2019/7/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/4/12	2020/4/11
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	2018/9/2	2019/9/2
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/27	2019/9/27
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	2019/3/2	2020/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2019/4/12	2020/4/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018/7/12	2019/7/11

## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for ZR/2019/60038.

The End

