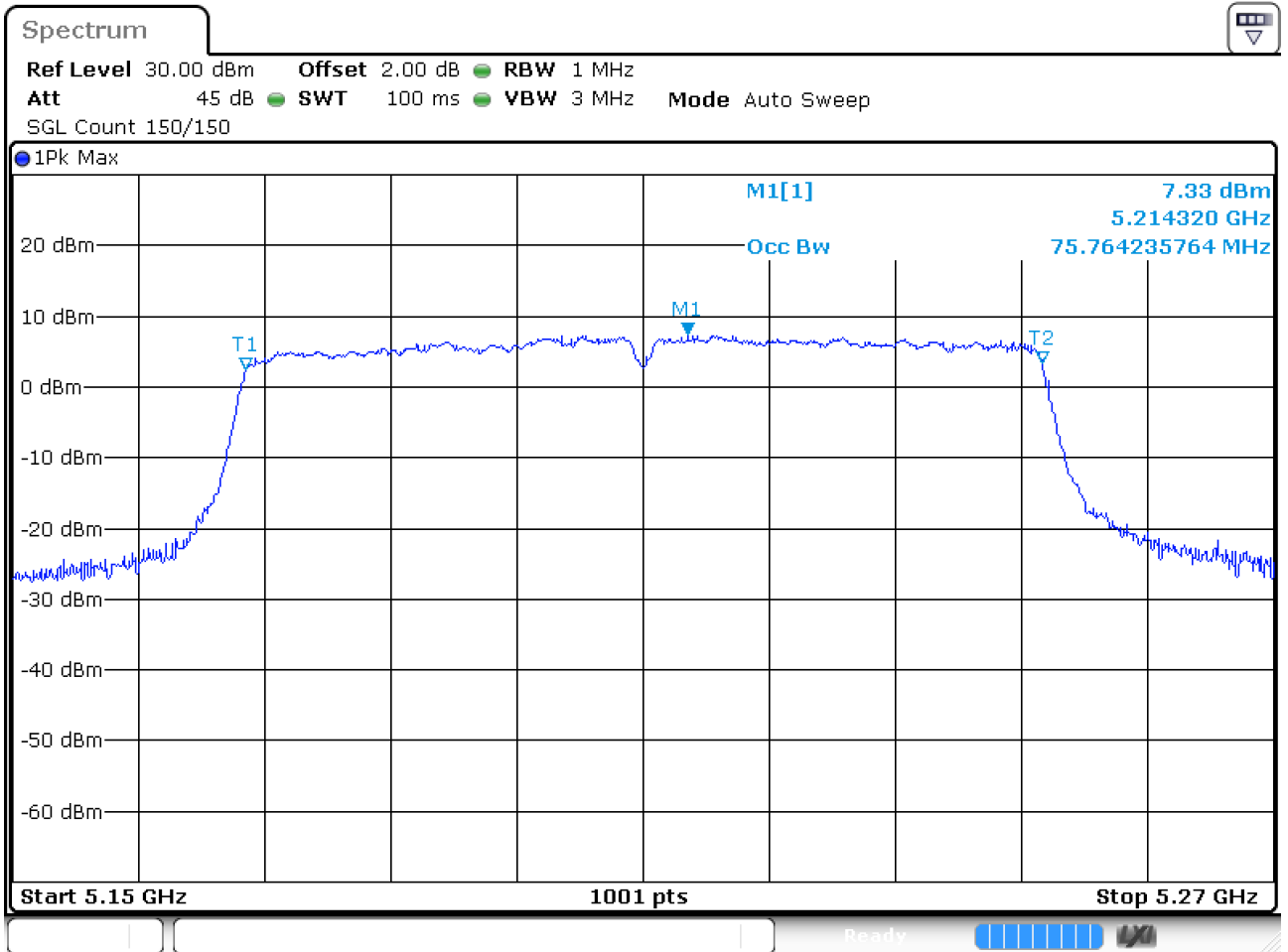


4.7.2.60 11AC80_42 ANT 1



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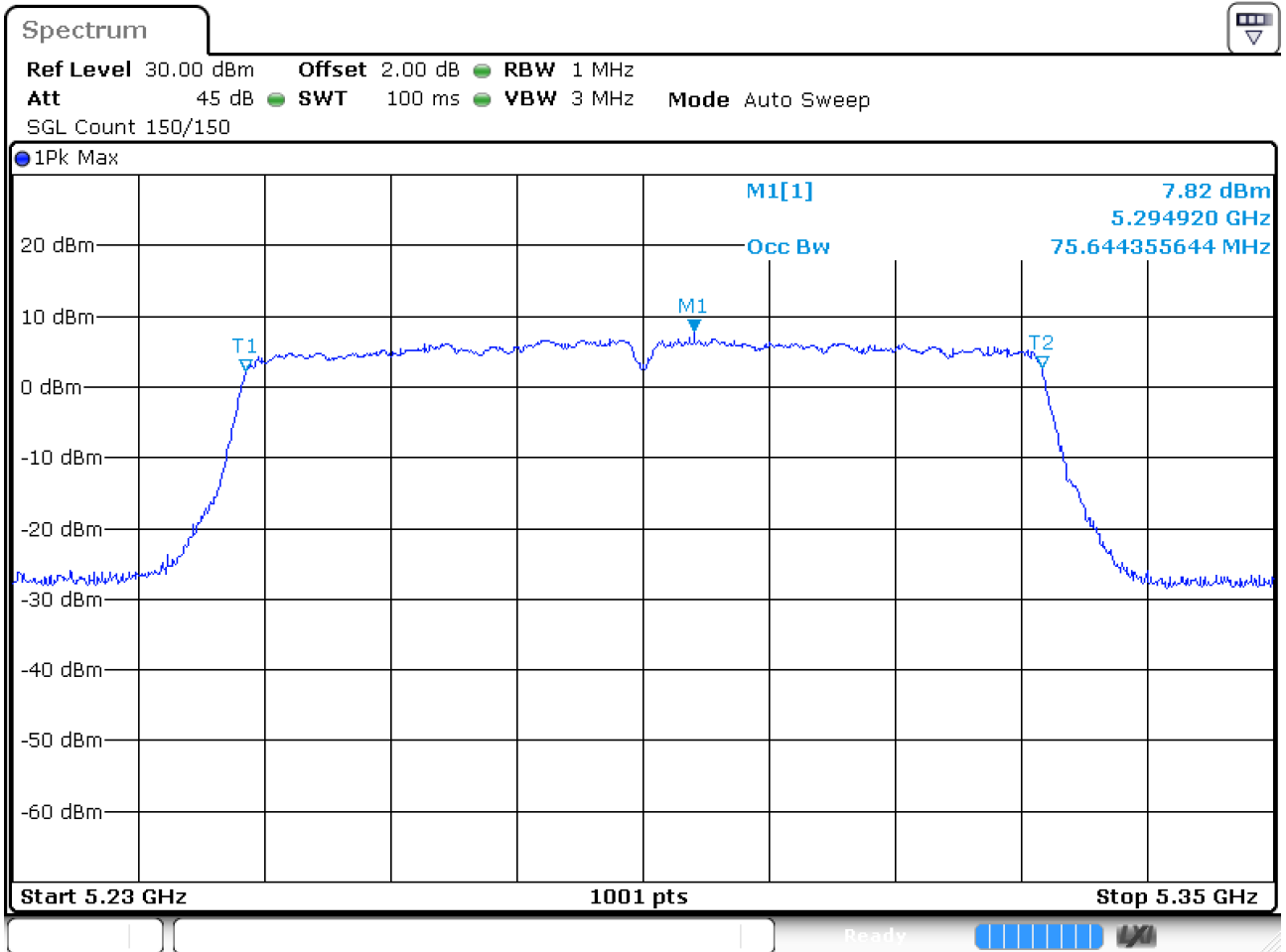


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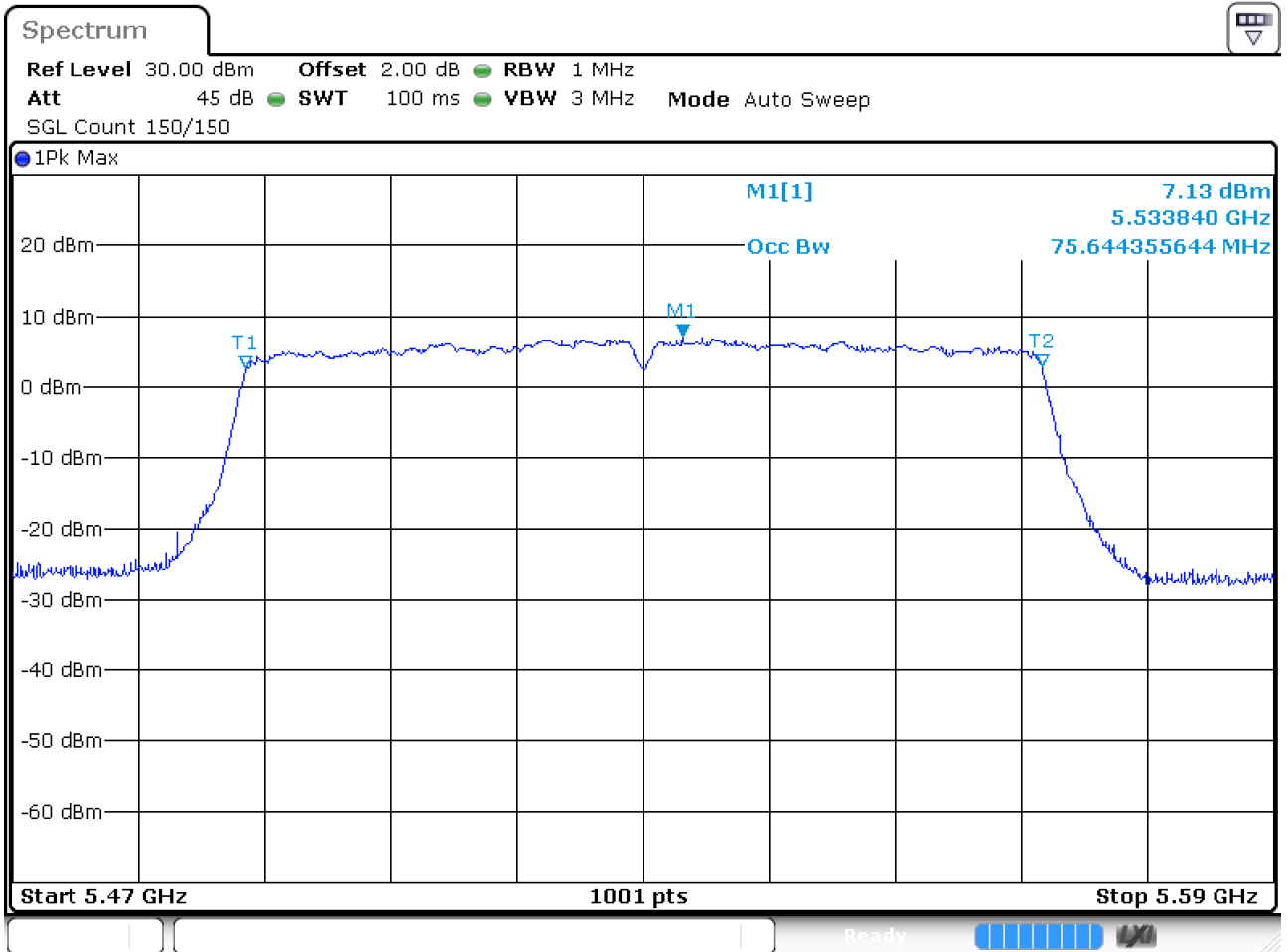
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4.7.2.62 11AC80_106 ANT 1



Date: 27.AUG.2020 17:55:50



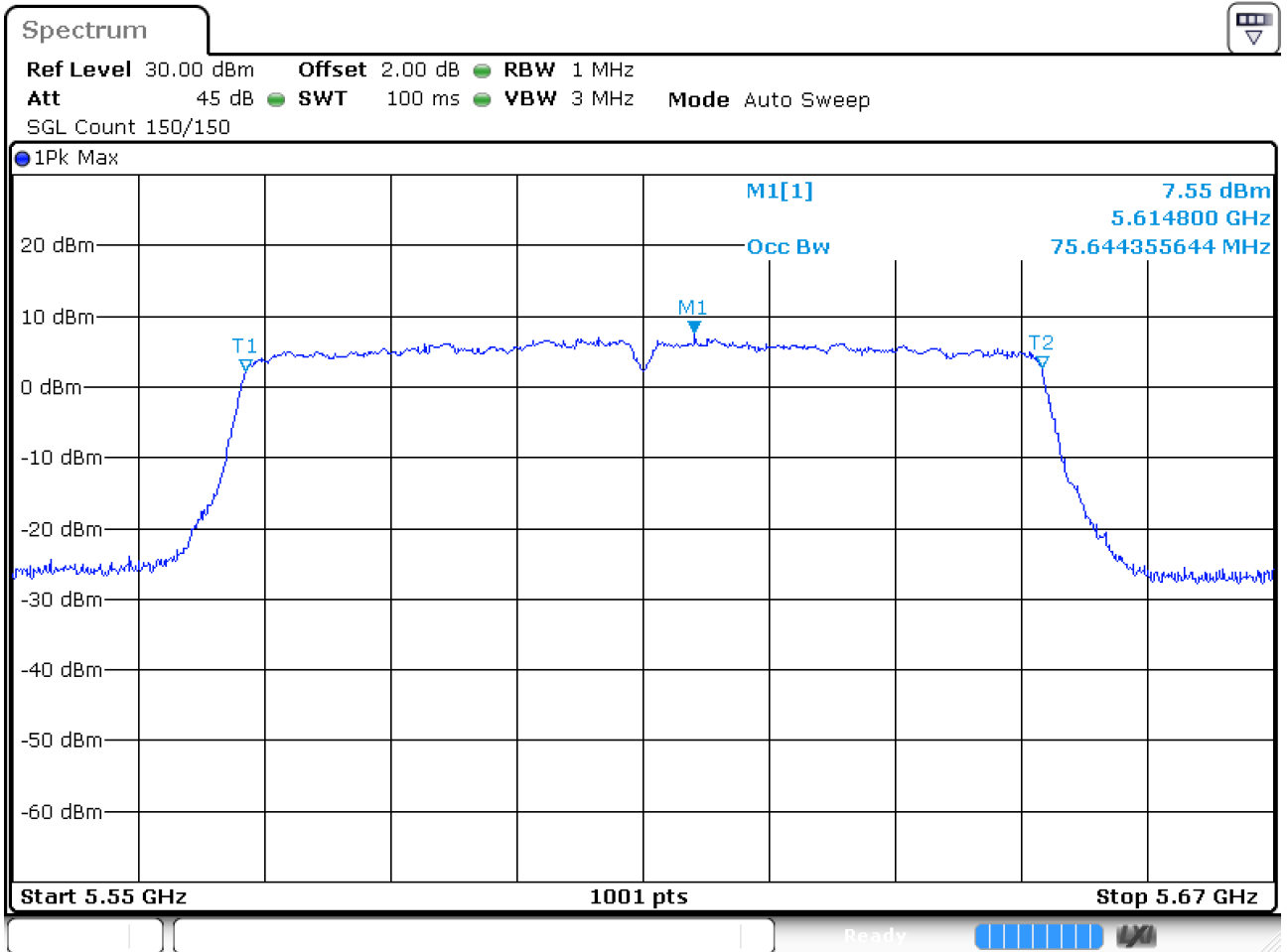
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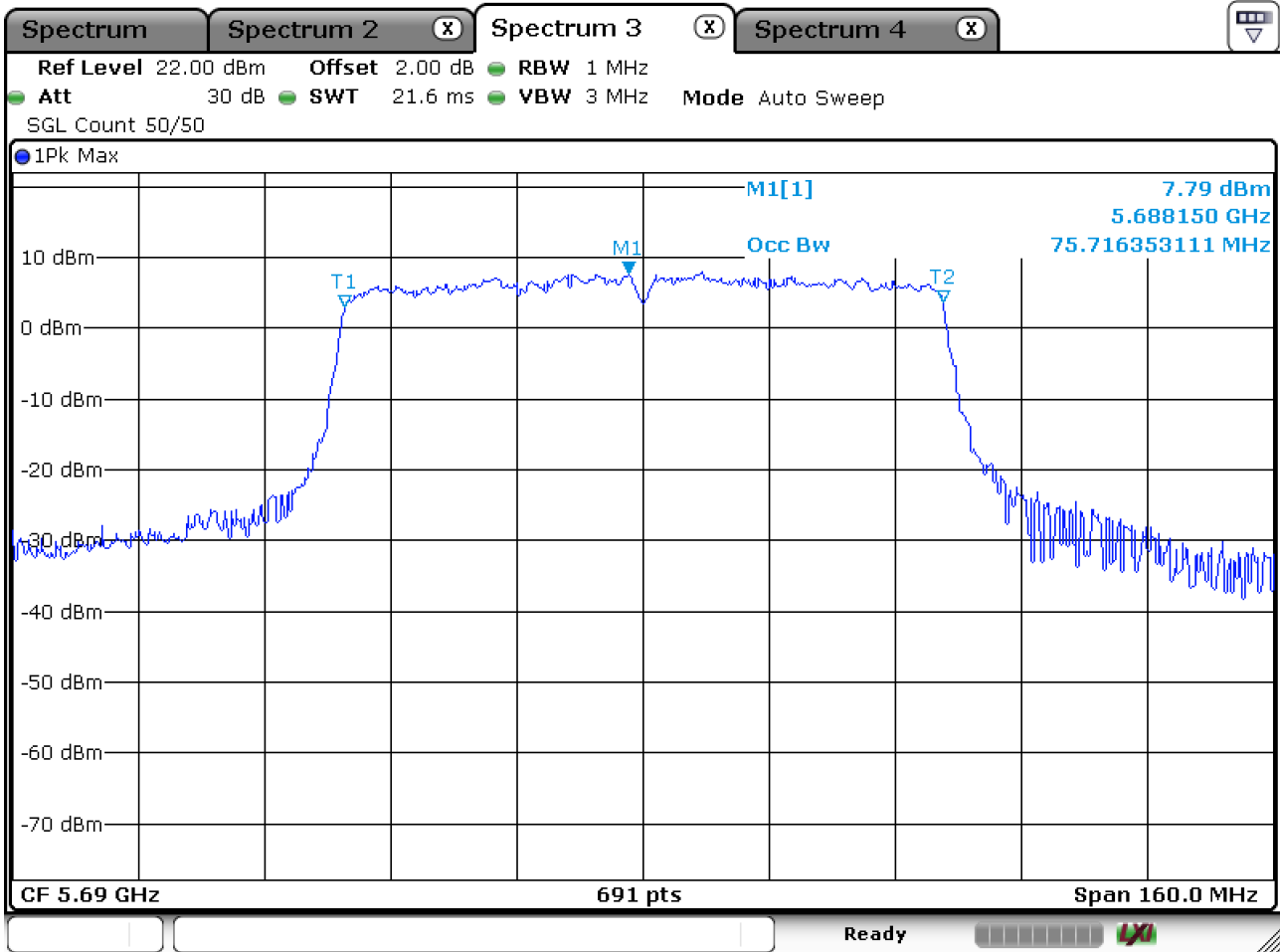
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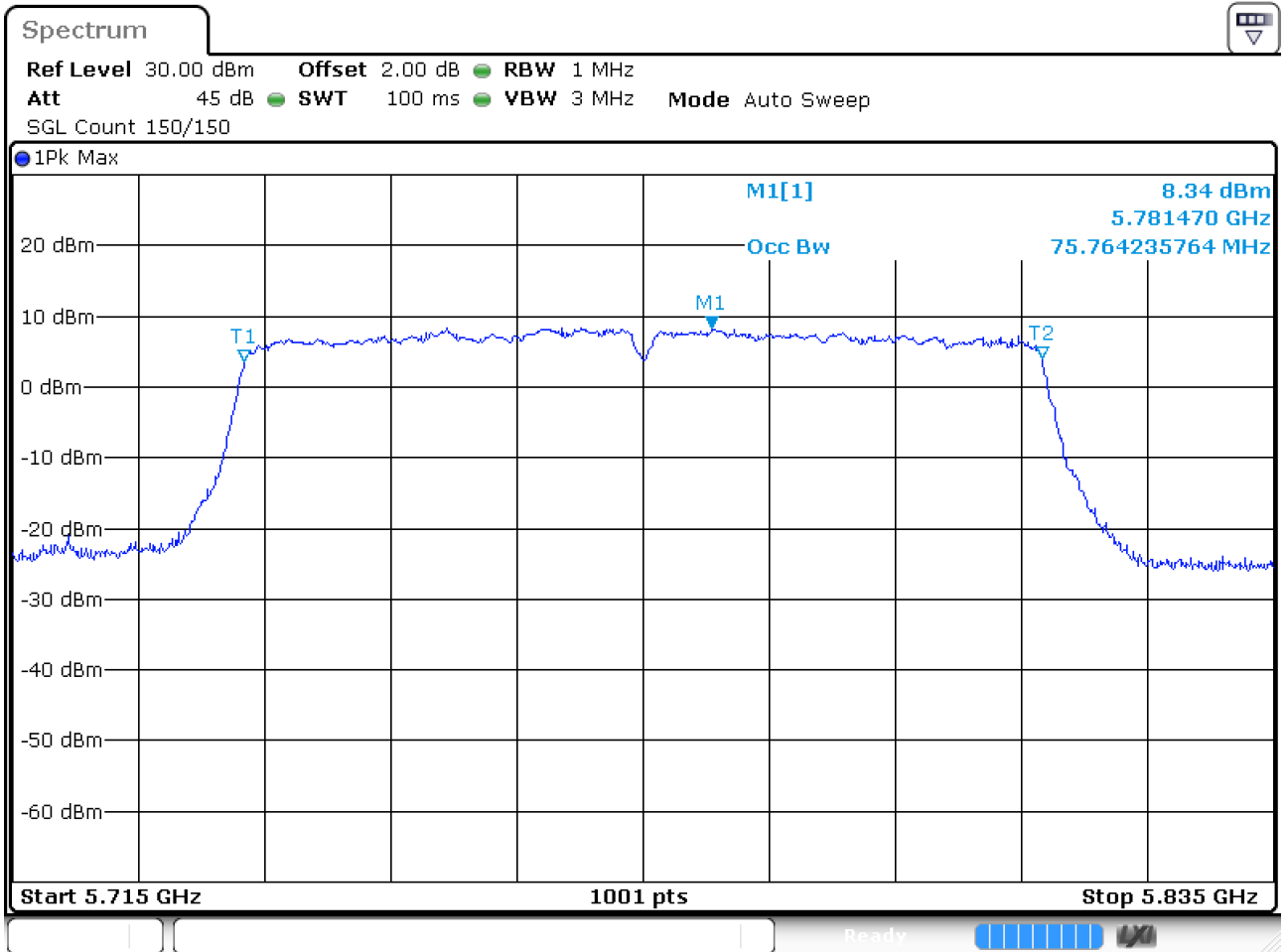
4.7.2.64 11AC80_138 ANT 1



Date: 13.OCT.2020 17:33:29



4.7.2.65 11AC80_155 ANT 1



Date: 27.AUG.2020 17:59:17



4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</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 802.11ac(HT20);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT80).</p> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	



4.8.1 Test Results For Power Density

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm/500KHz]	Verdict
11A20	36	5180	ANT 1	7.96	PASS
	44	5220	ANT 1	7.8	PASS
	48	5240	ANT 1	7.66	PASS
	52	5260	ANT 1	7.64	PASS
	60	5300	ANT 1	7.77	PASS
	64	5320	ANT 1	7.77	PASS
	100	5500	ANT 1	7.76	PASS
	116	5580	ANT 1	7.53	PASS
	140	5700	ANT 1	7.86	PASS
	144(BandII-C)	5720	ANT 1	8.42	PASS
	144(BandIII)	5720	ANT 1	4.43	PASS
	149	5745	ANT 1	5.22	PASS
	157	5785	ANT 1	5.35	PASS
	165	5825	ANT 1	5.34	PASS
11N20	36	5180	ANT 1	6.42	PASS
	44	5220	ANT 1	6.27	PASS
	48	5240	ANT 1	6.09	PASS
	52	5260	ANT 1	6.08	PASS
	60	5300	ANT 1	6.26	PASS
	64	5320	ANT 1	6.25	PASS
	100	5500	ANT 1	6.24	PASS
	116	5580	ANT 1	5.94	PASS
	140	5700	ANT 1	6.33	PASS
	144(BandII-C)	5720	ANT 1	6.79	PASS
	144(BandIII)	5720	ANT 1	3.04	PASS
	149	5745	ANT 1	3.71	PASS
	157	5785	ANT 1	3.77	PASS
	165	5825	ANT 1	3.81	PASS
11N40	38	5190	ANT 1	2.9	PASS
	46	5230	ANT 1	2.62	PASS



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	54	5270	ANT 1	2.59	PASS
	62	5310	ANT 1	2.54	PASS
	102	5510	ANT 1	2.67	PASS
	110	5550	ANT 1	2.53	PASS
	134	5670	ANT 1	2.36	PASS
	144(BandII-C)	5710	ANT 1	3.20	PASS
	144(BandIII)	5710	ANT 1	-0.74	PASS
	151	5755	ANT 1	-0.01	PASS
	159	5795	ANT 1	0.05	PASS
11AC20	36	5180	ANT 1	3.24	PASS
	44	5220	ANT 1	3.2	PASS
	48	5240	ANT 1	2.9	PASS
	52	5260	ANT 1	2.92	PASS
	60	5300	ANT 1	3.07	PASS
	64	5320	ANT 1	3.02	PASS
	100	5500	ANT 1	3.01	PASS
	116	5580	ANT 1	2.77	PASS
	140	5700	ANT 1	4.24	PASS
	144(BandII-C)	5720	ANT 1	5.05	PASS
	144(BandIII)	5720	ANT 1	0.85	PASS
	149	5745	ANT 1	1.62	PASS
	157	5745	ANT 1	1.75	PASS
	165	5825	ANT 1	1.58	PASS
11AC40	38	5190	ANT 1	0.65	PASS
	46	5230	ANT 1	0.33	PASS
	54	5270	ANT 1	0.32	PASS
	62	5310	ANT 1	0.35	PASS
	102	5510	ANT 1	0.31	PASS
	110	5550	ANT 1	0.17	PASS
	134	5670	ANT 1	0.07	PASS
	144(BandII-C)	5710	ANT 1	2.11	PASS

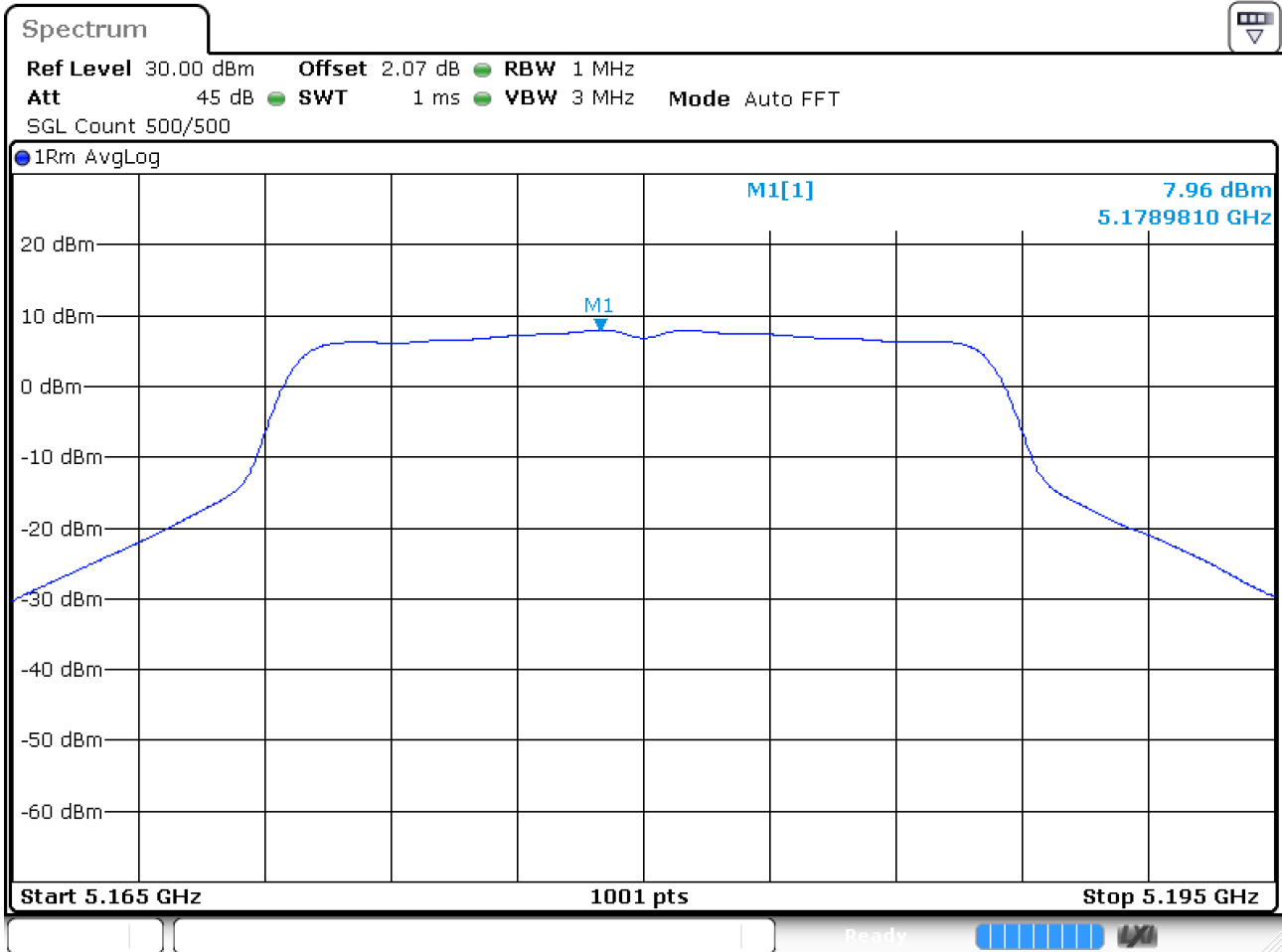


	144(BandIII)	5710	ANT 1	-2.07	PASS
	151	5755	ANT 1	-1.2	PASS
	159	5795	ANT 1	-1.07	PASS
11AC80	42	5210	ANT 1	-1.71	PASS
	58	5290	ANT 1	-2.3	PASS
	106	5530	ANT 1	-2.3	PASS
	122	5610	ANT 1	-2.52	PASS
	138(BandII-C)	5690	ANT 1	-0.25	PASS
	138(BandIII)	5690	ANT 1	-3.54	PASS
	155	5775	ANT 1	-4.83	PASS



4.8.2 Test plots For Power Density
11A20_36 ANT 1

4.8.2.1



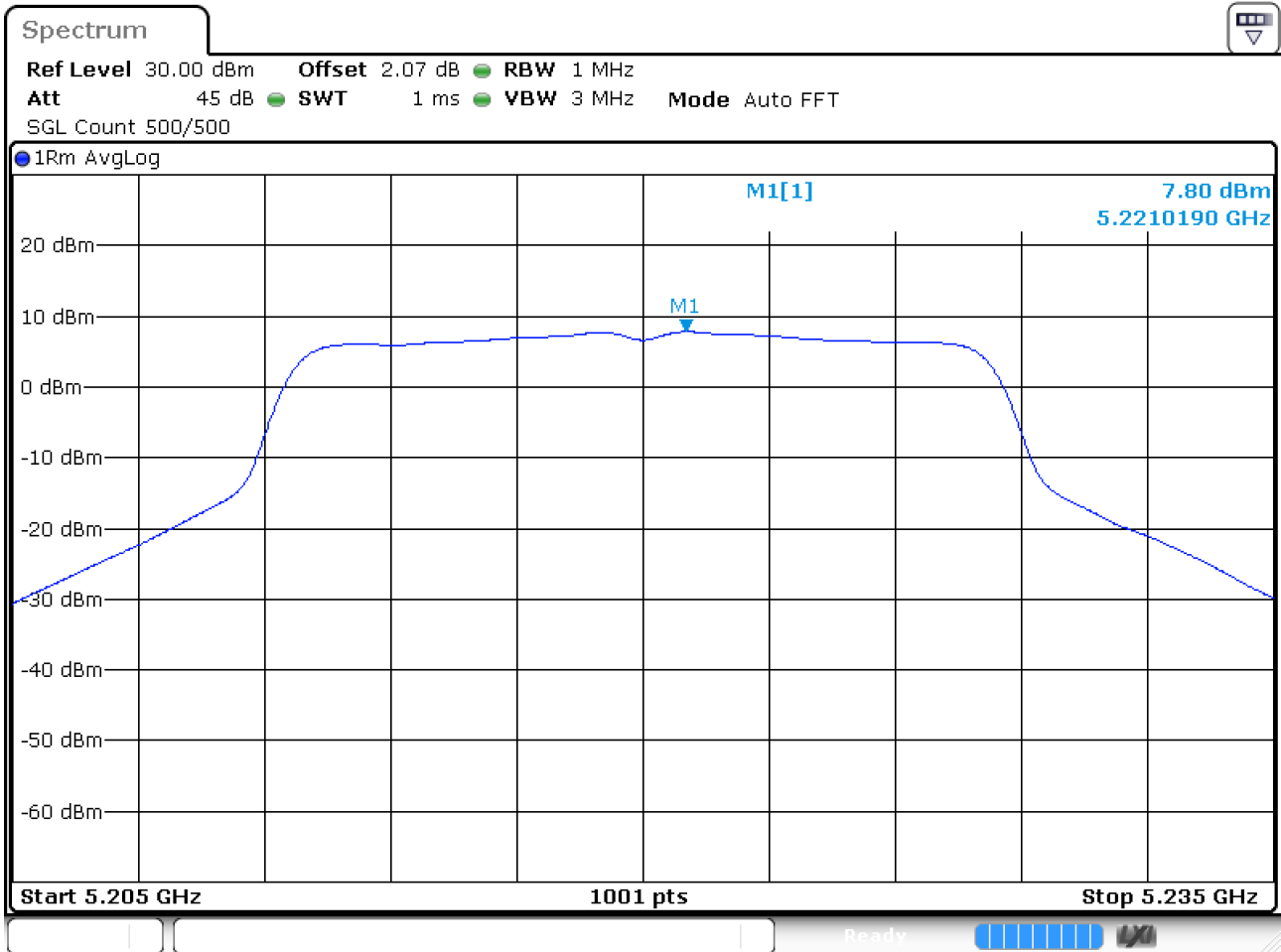
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4.8.2.2 11A20_44 ANT 1



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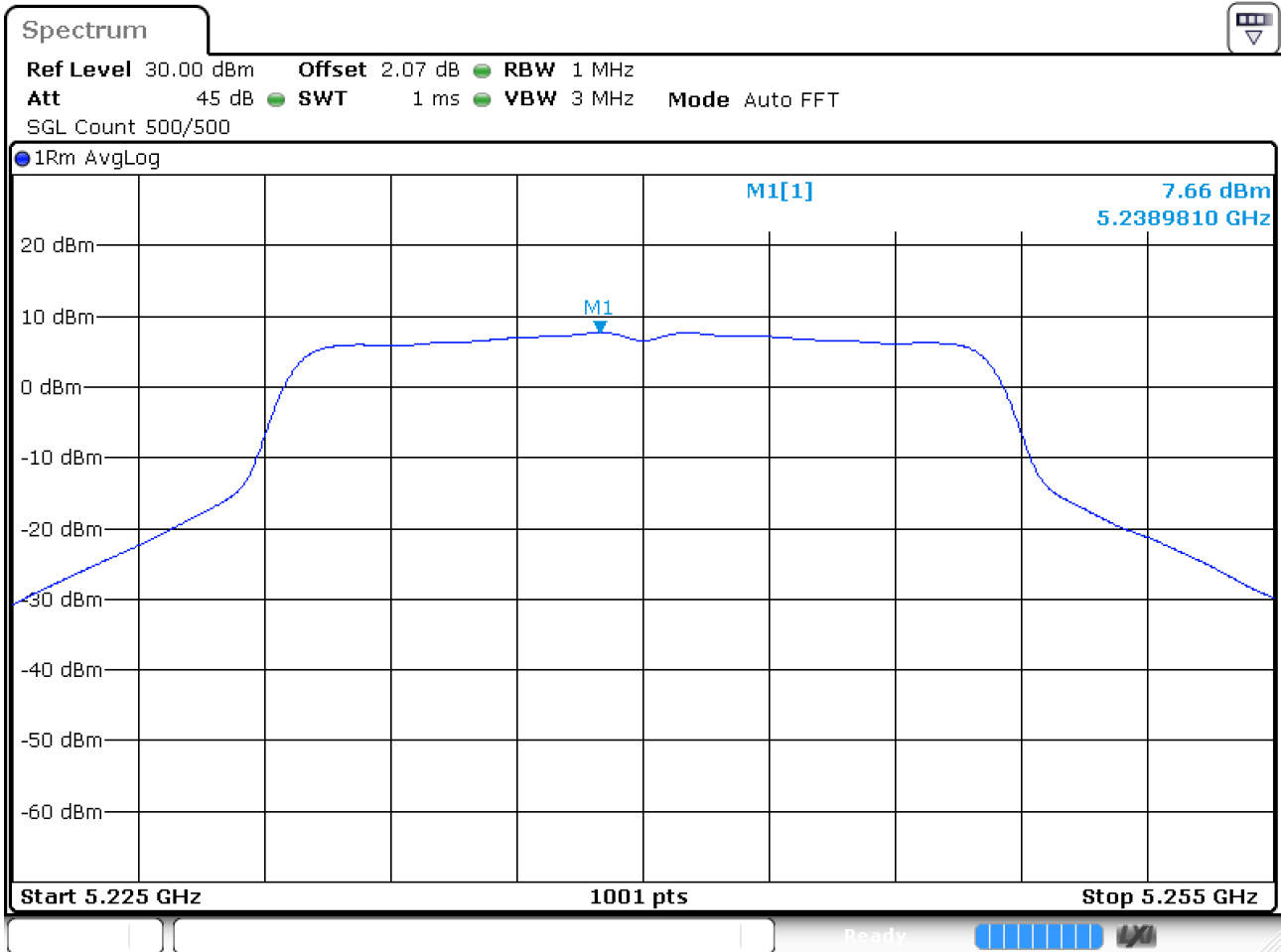


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4.8.2.3 11A20_48 ANT 1



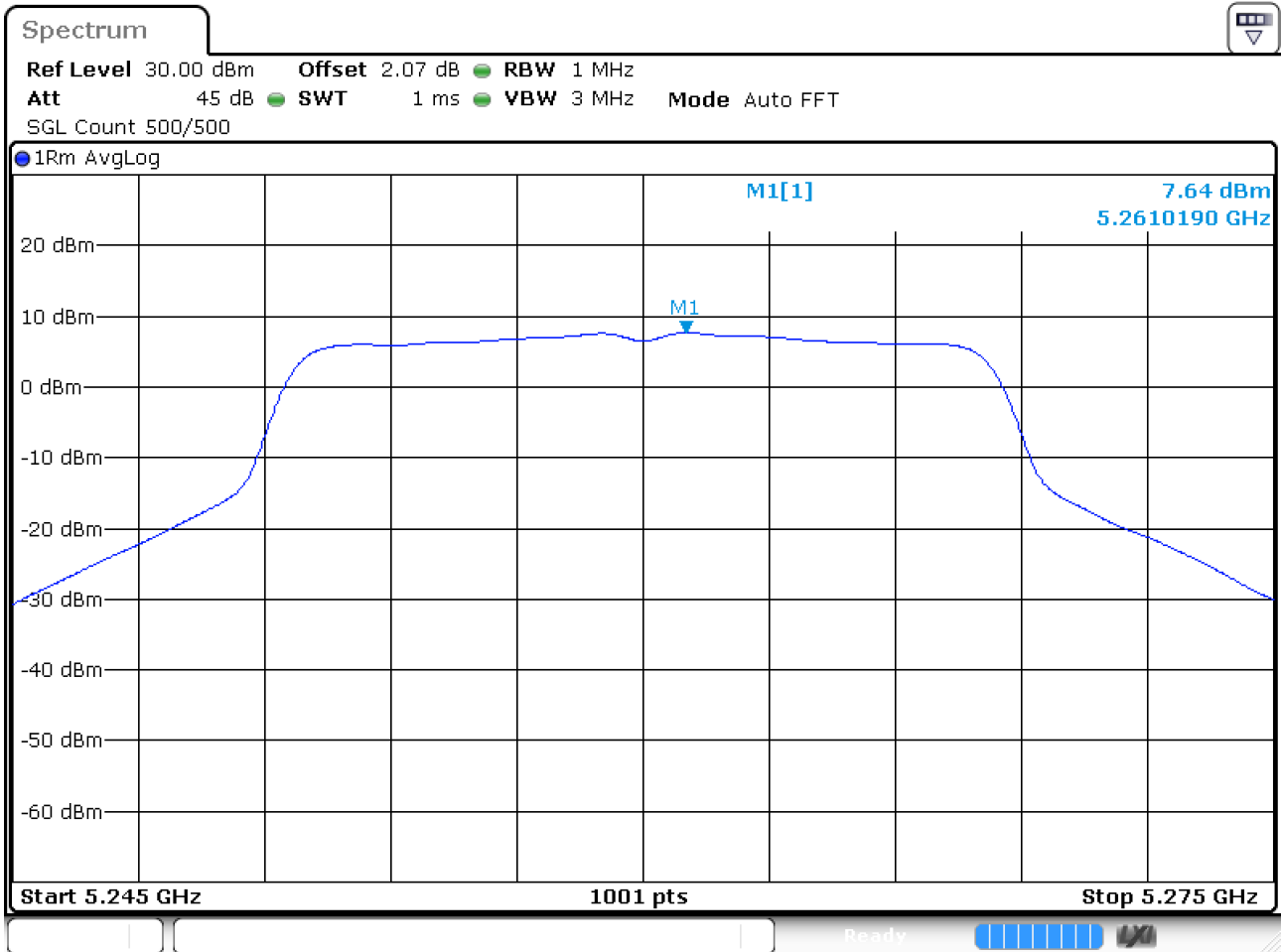
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4.8.2.4 11A20_52 ANT 1



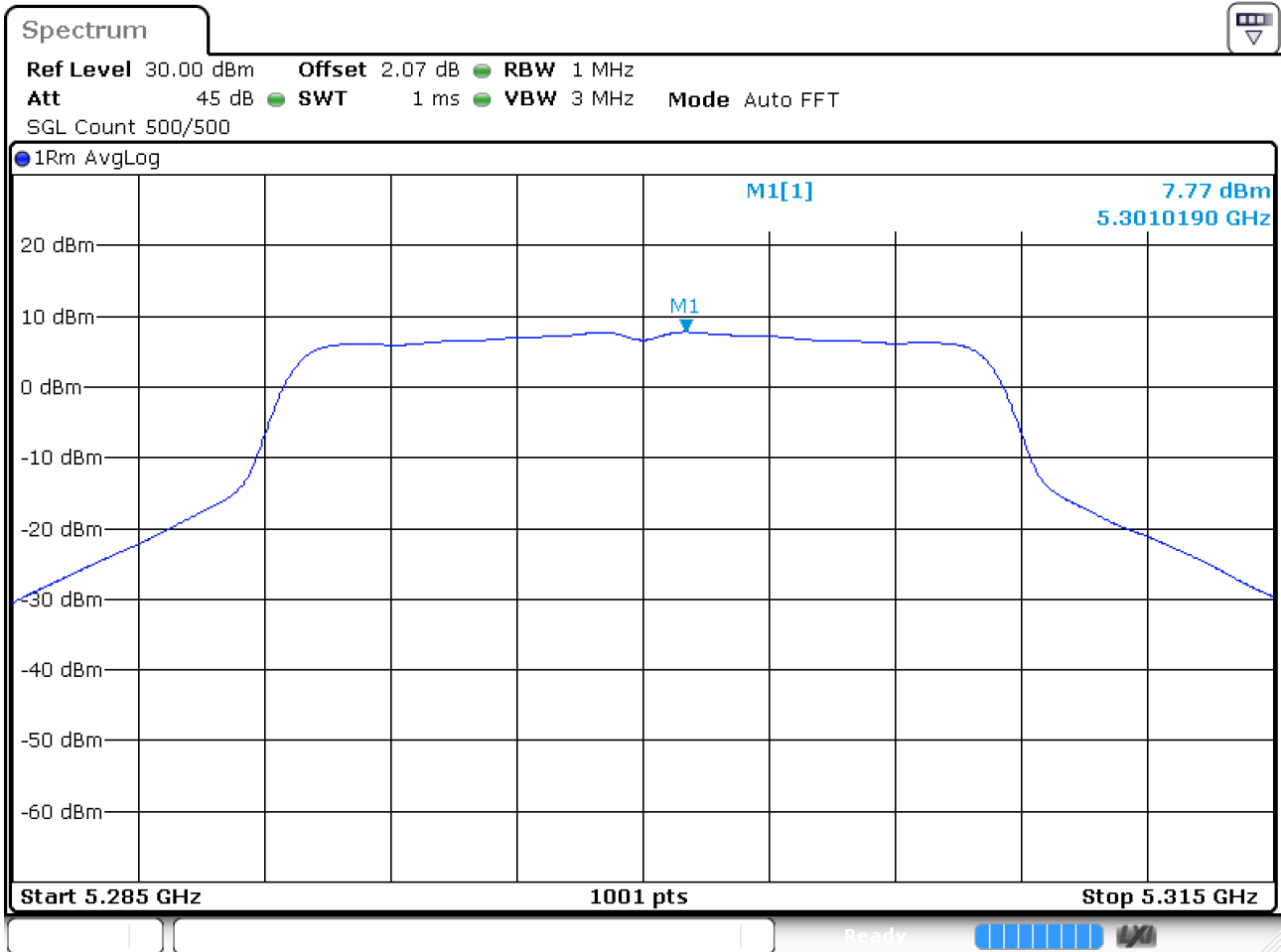
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4.8.2.5 11A20_60 ANT 1



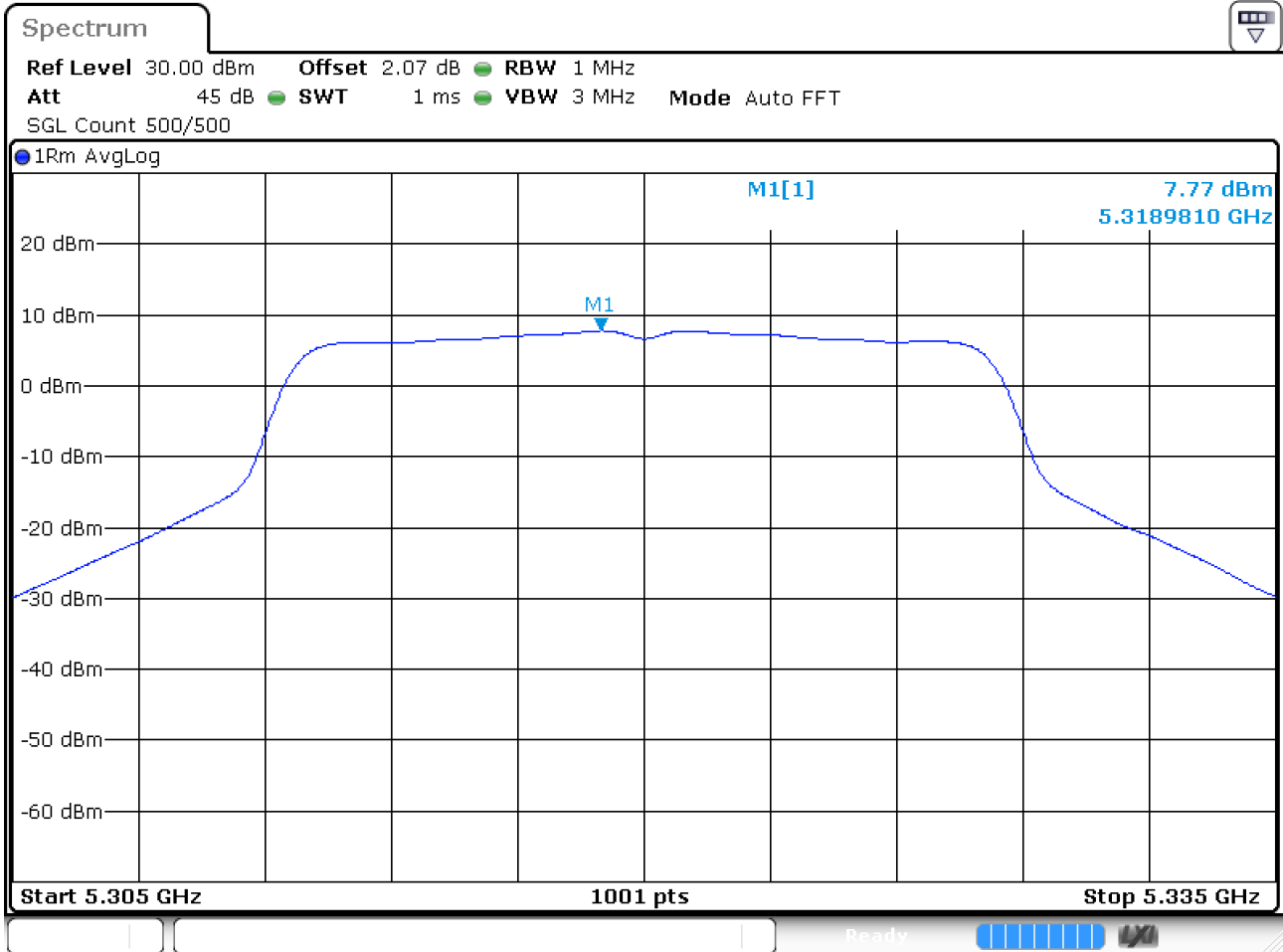
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4.8.2.6 11A20_64 ANT 1



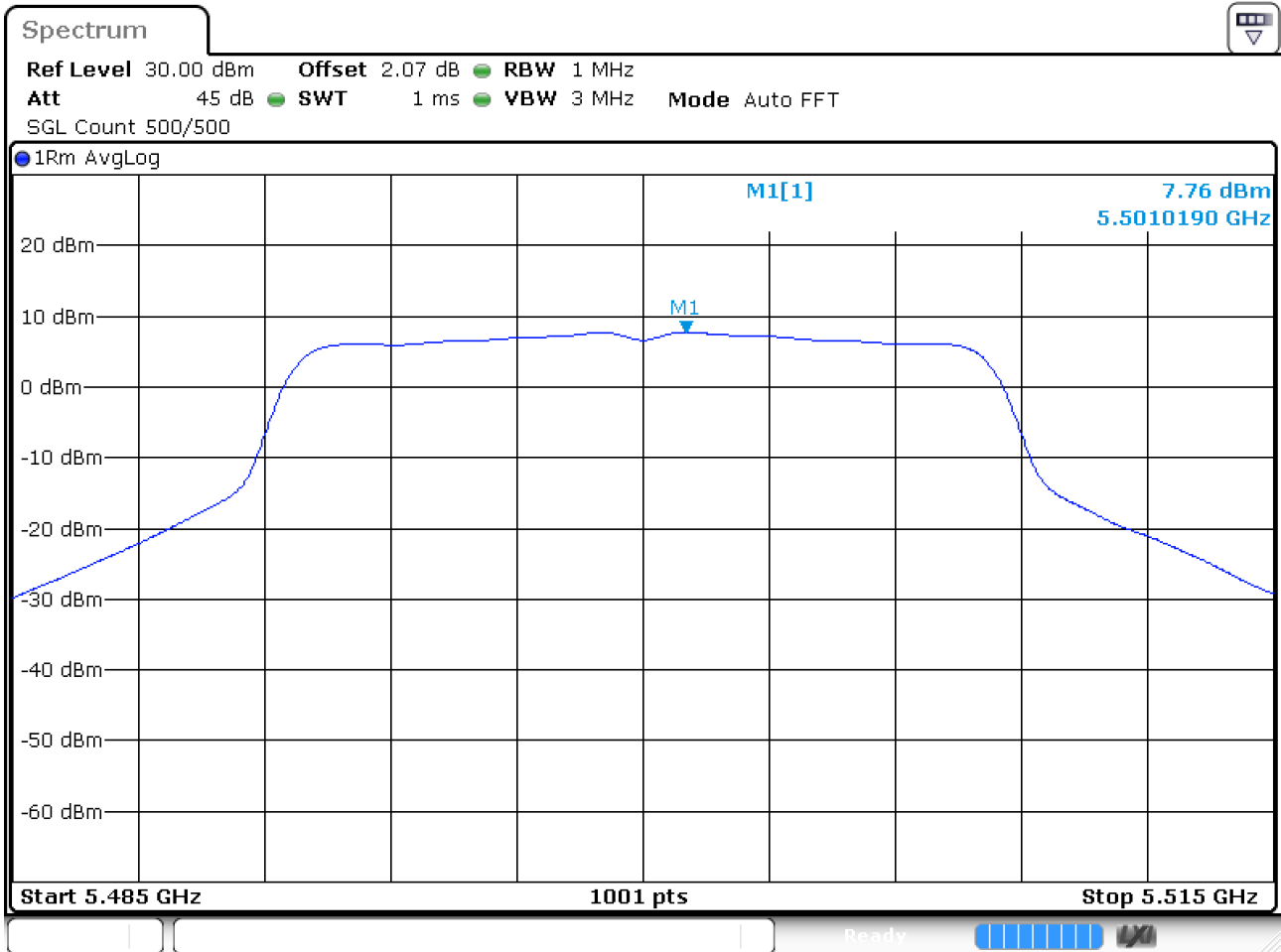
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4.8.2.7 11A20_100 ANT 1



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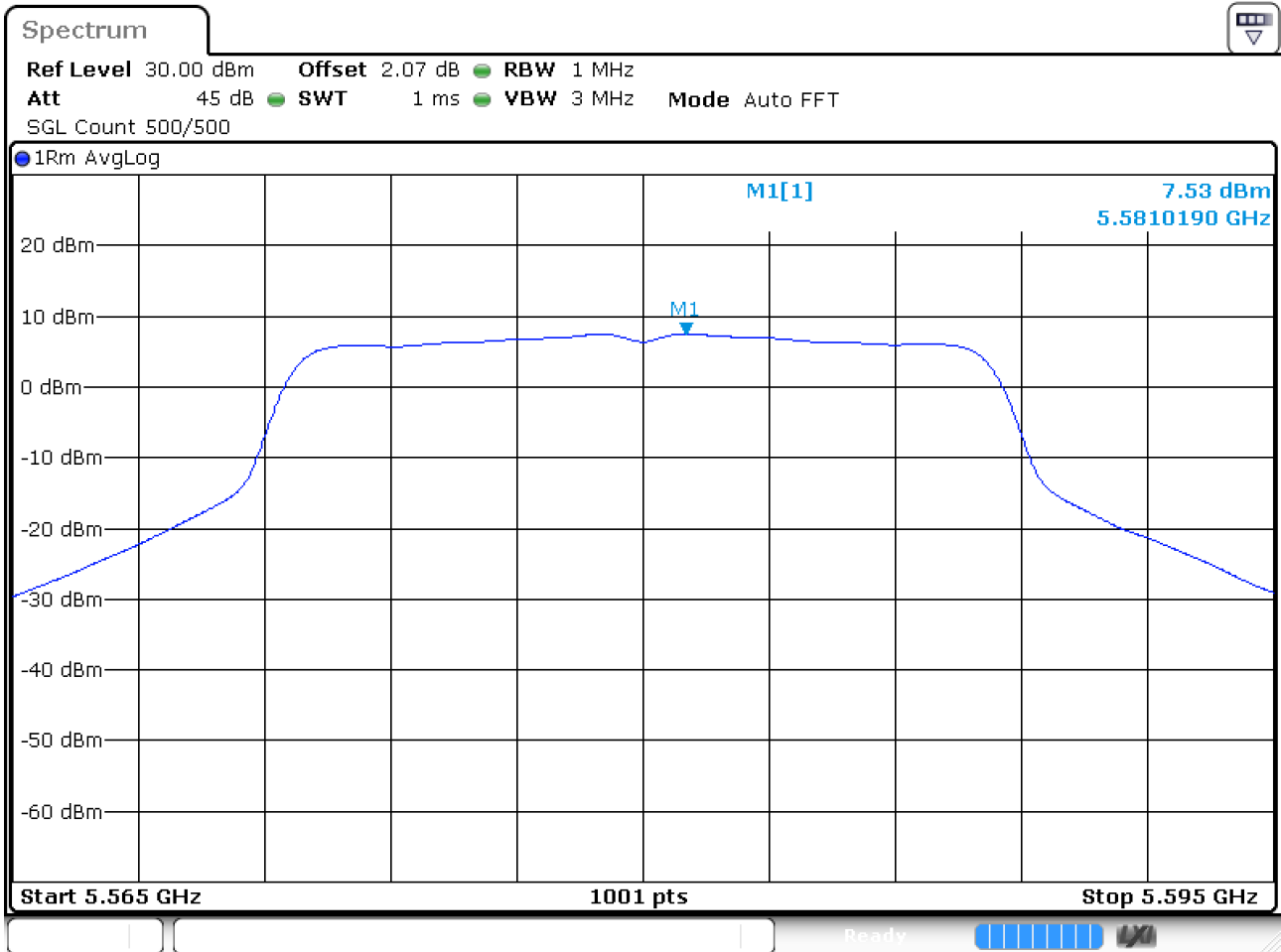


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4.8.2.8 11A20_116 ANT 1



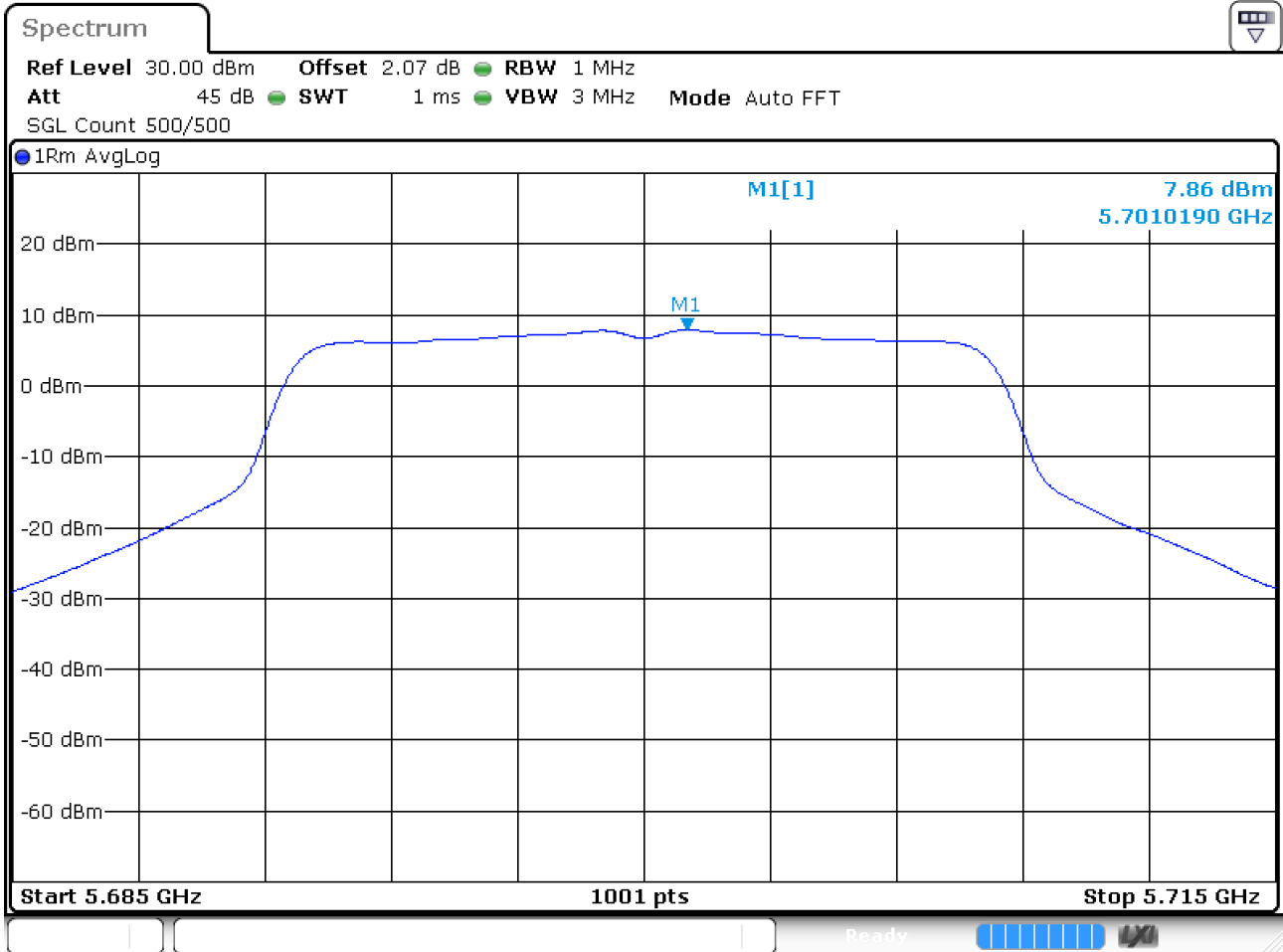
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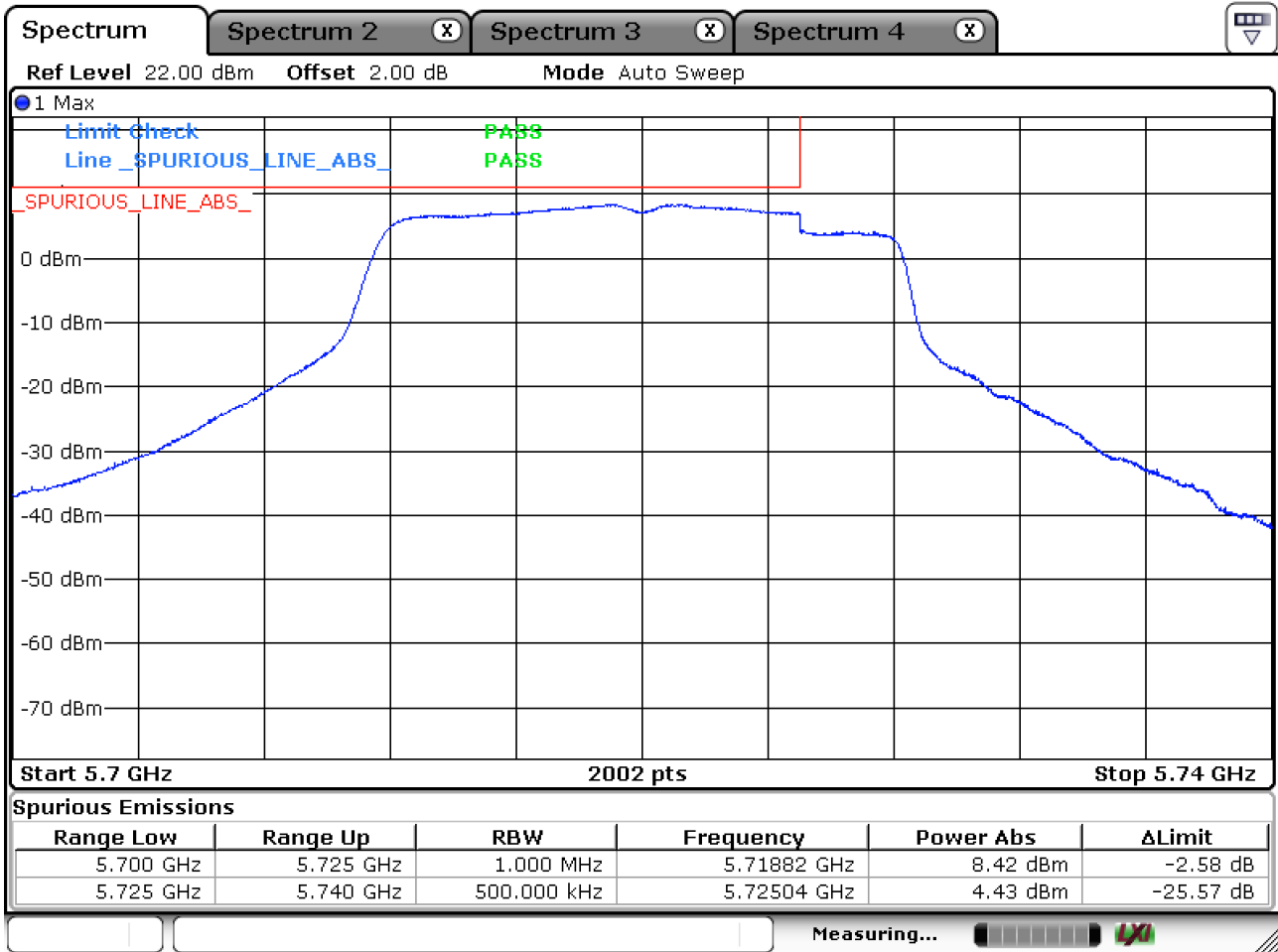
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4.8.2.10 11A20_144 ANT 1



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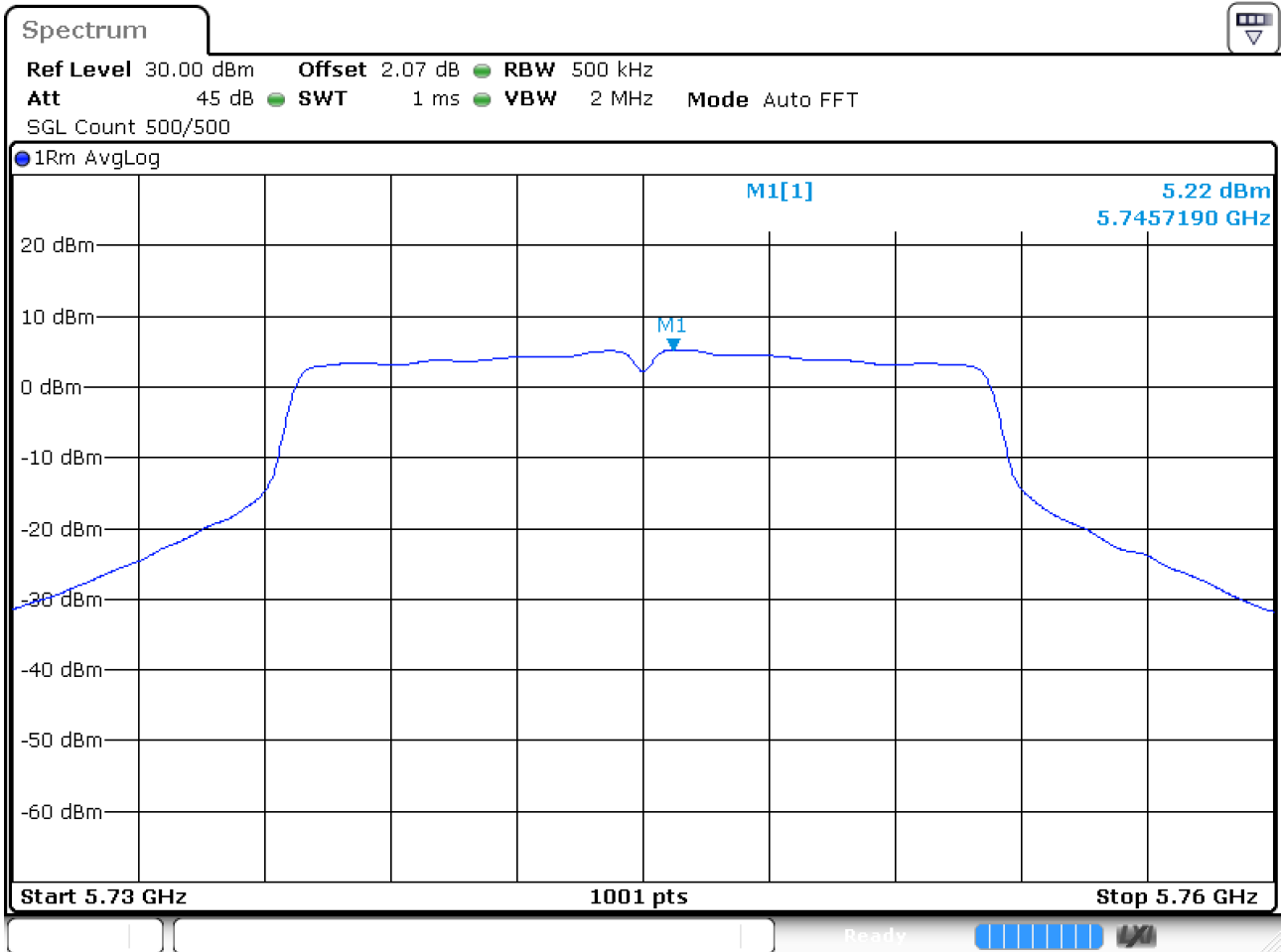


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4.8.2.11 11A20_149 ANT 1



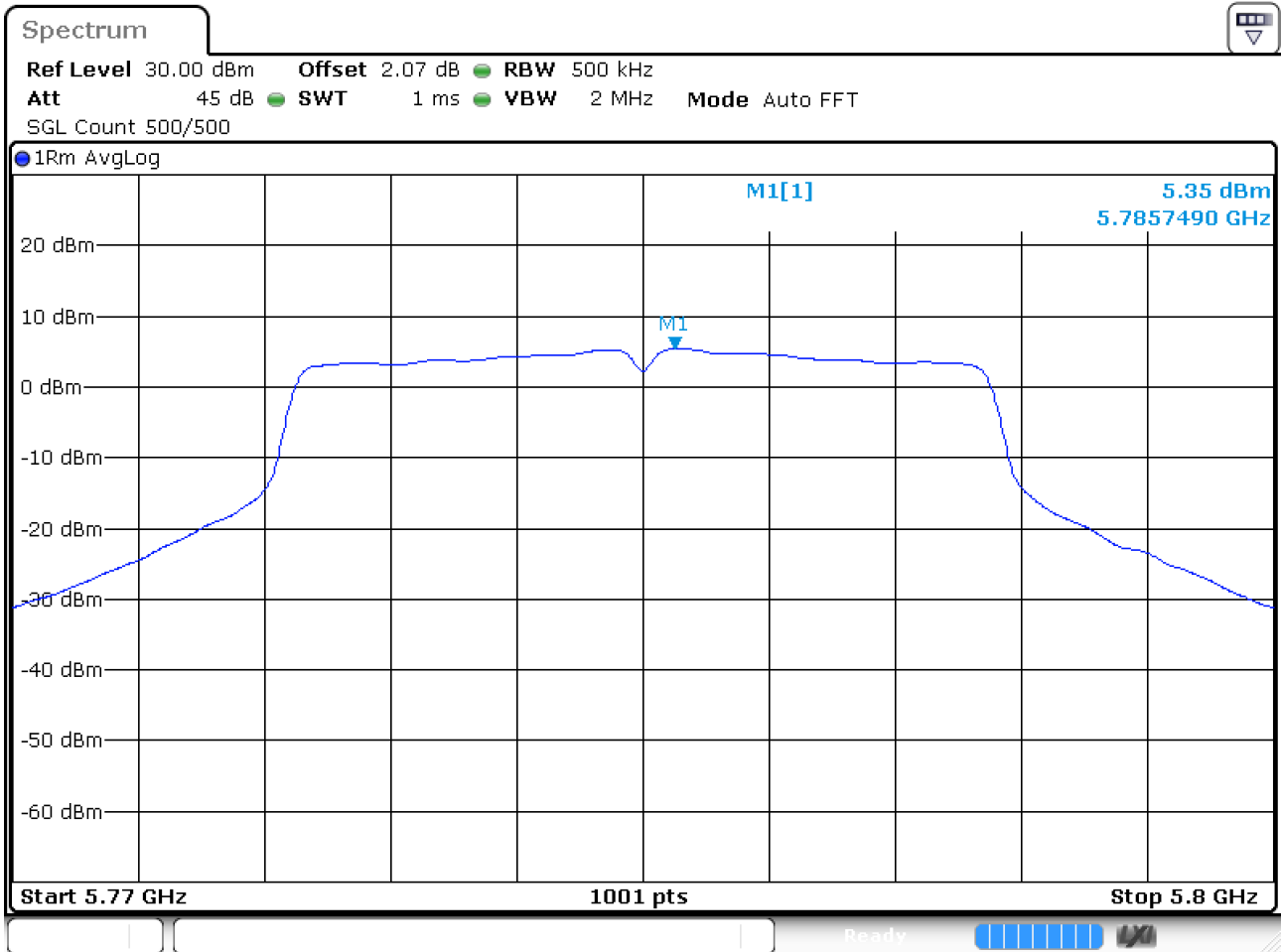
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4.8.2.12 11A20_157 ANT 1



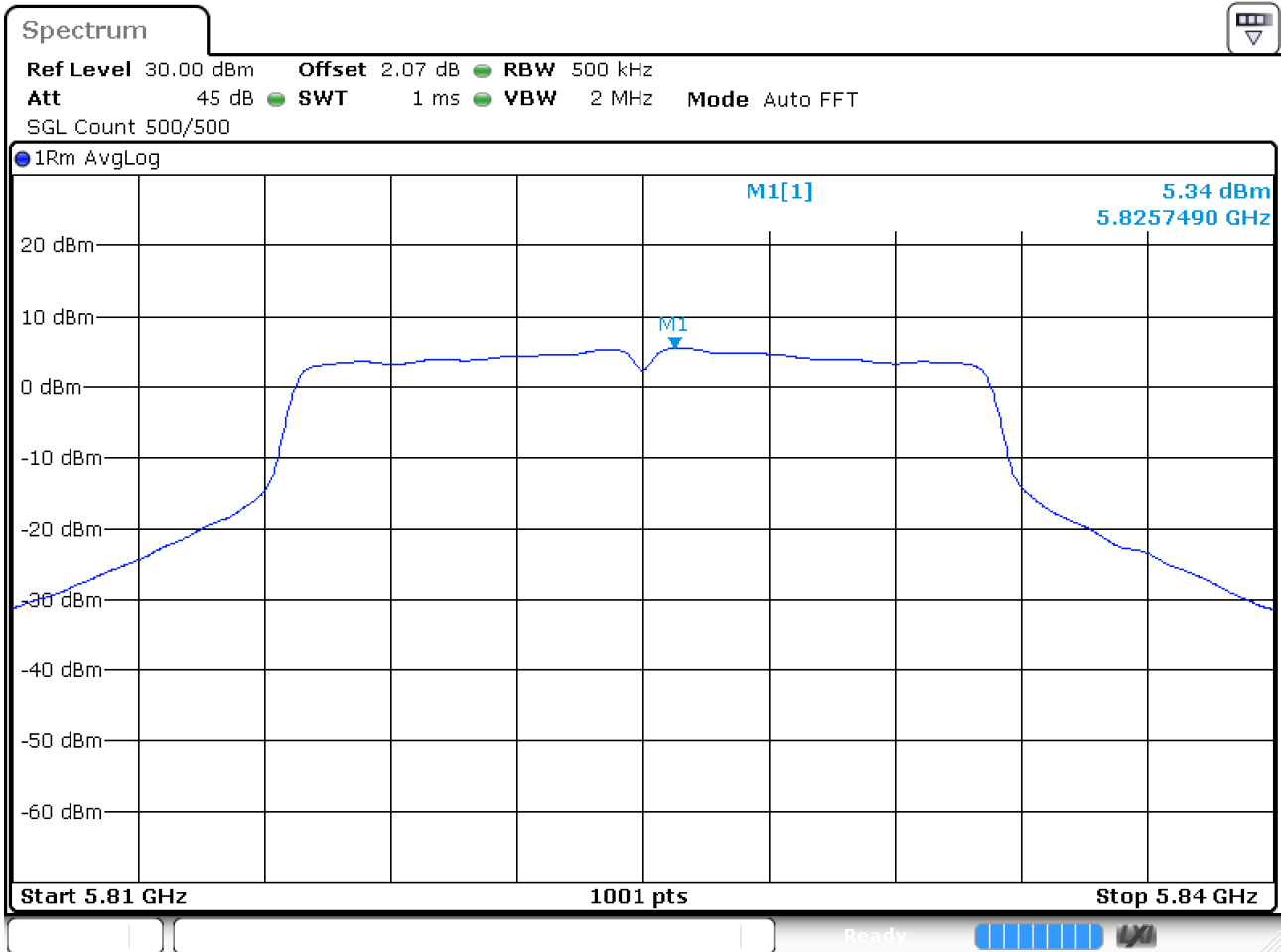
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4.8.2.13 11A20_165 ANT 1



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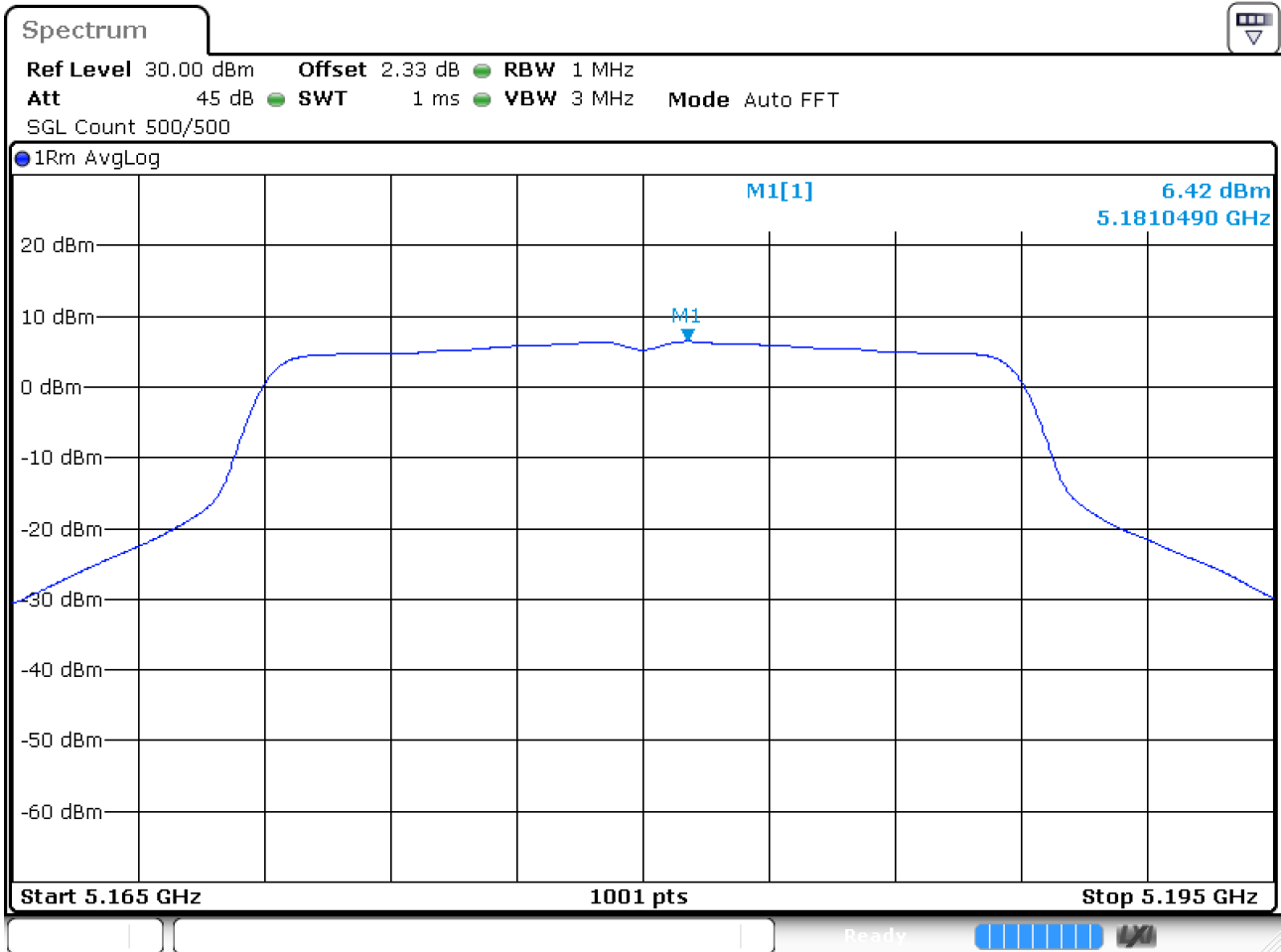


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4.8.2.14 11N20_36 ANT 1



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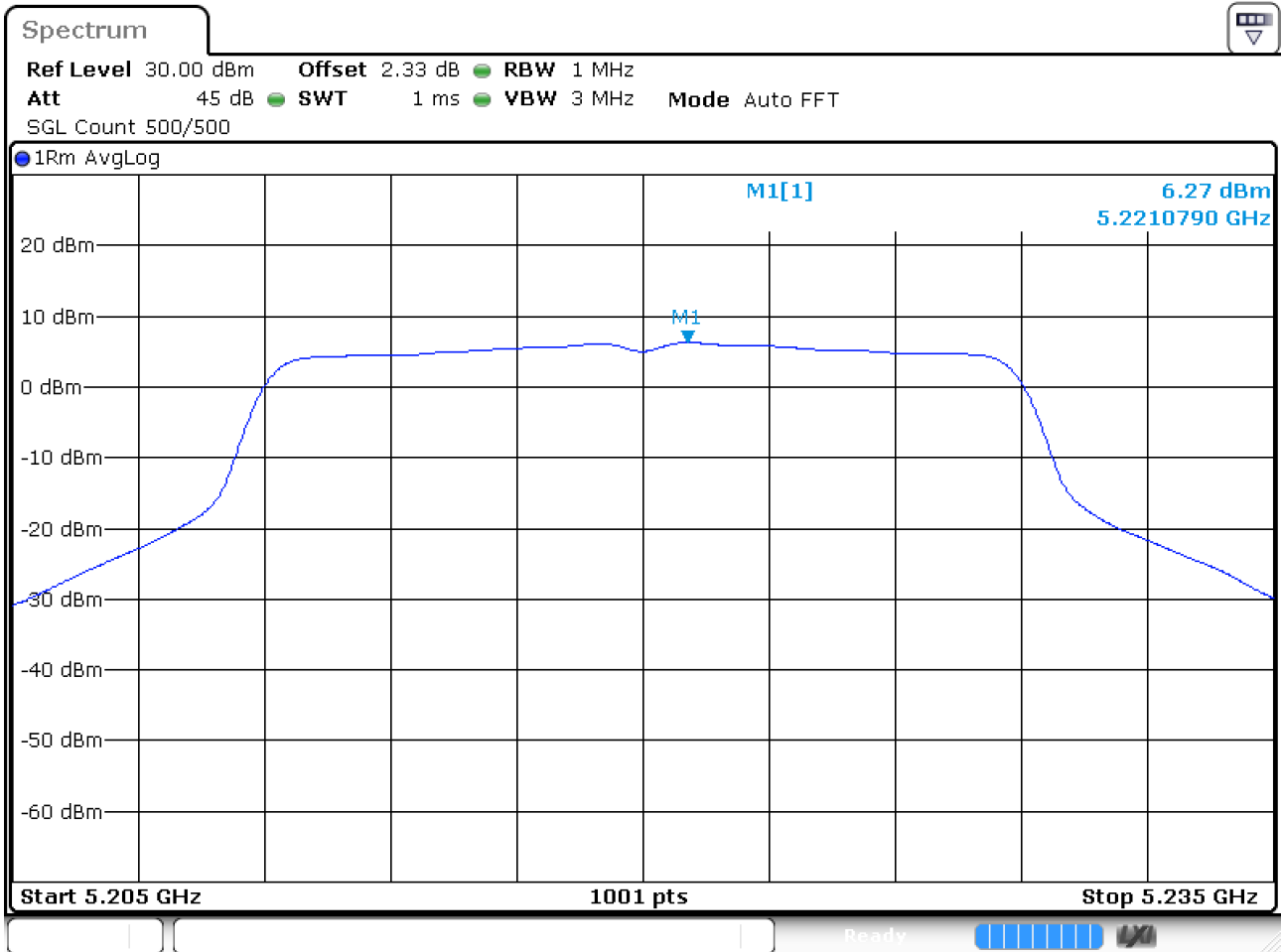


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4.8.2.15 11N20_44 ANT 1



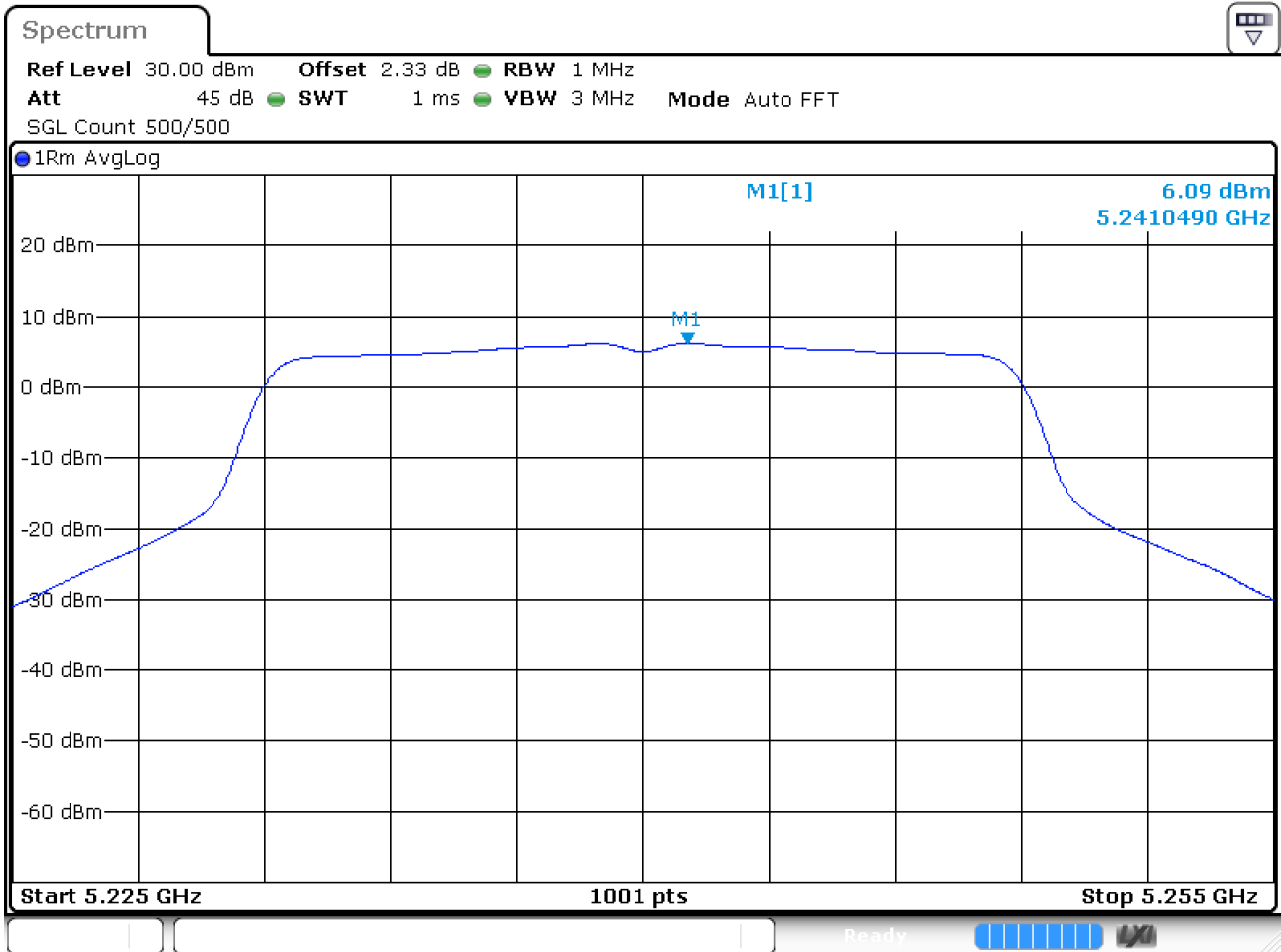
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4.8.2.16 11N20_48 ANT 1



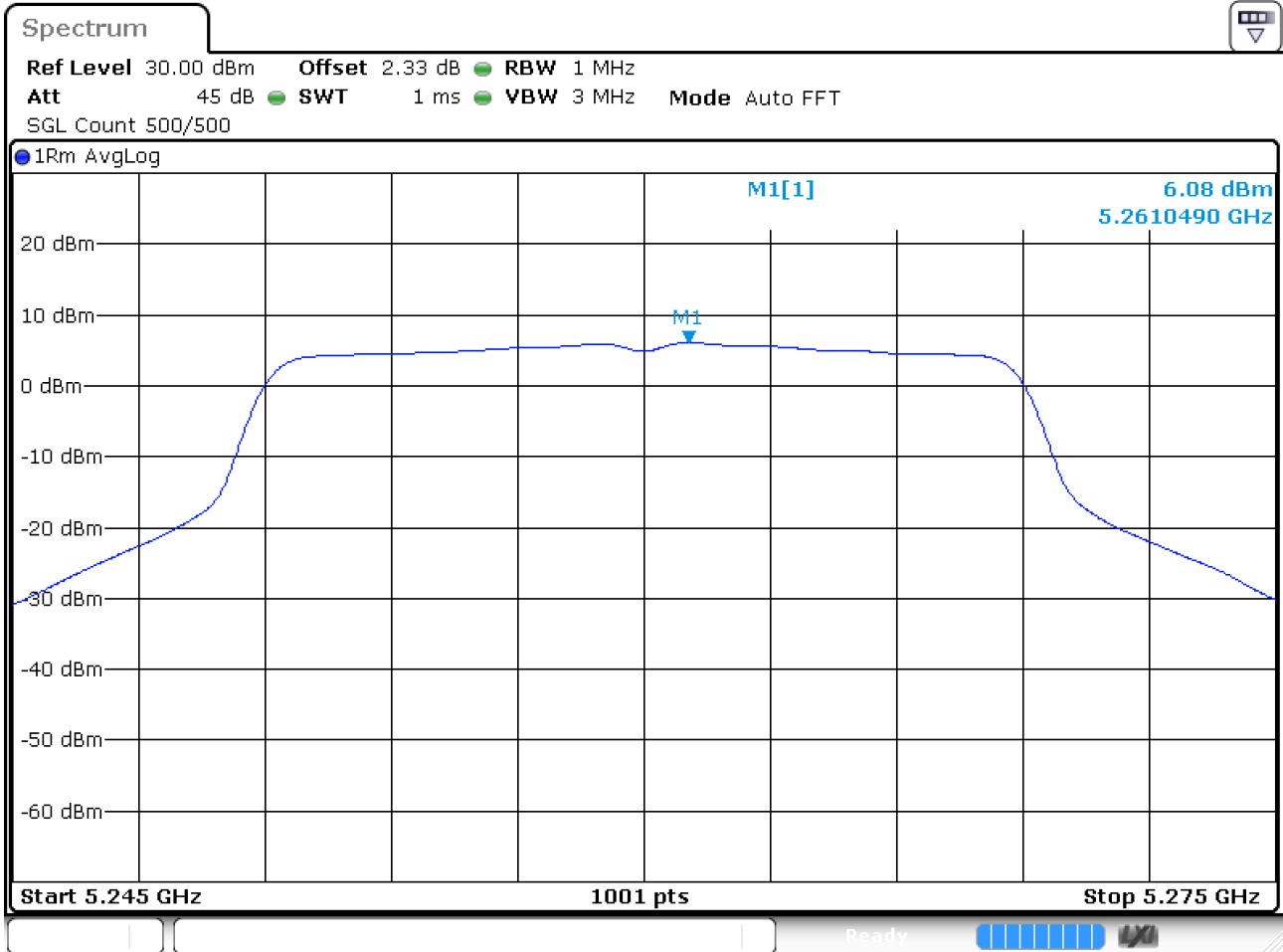
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4.8.2.17 11N20_52 ANT 1



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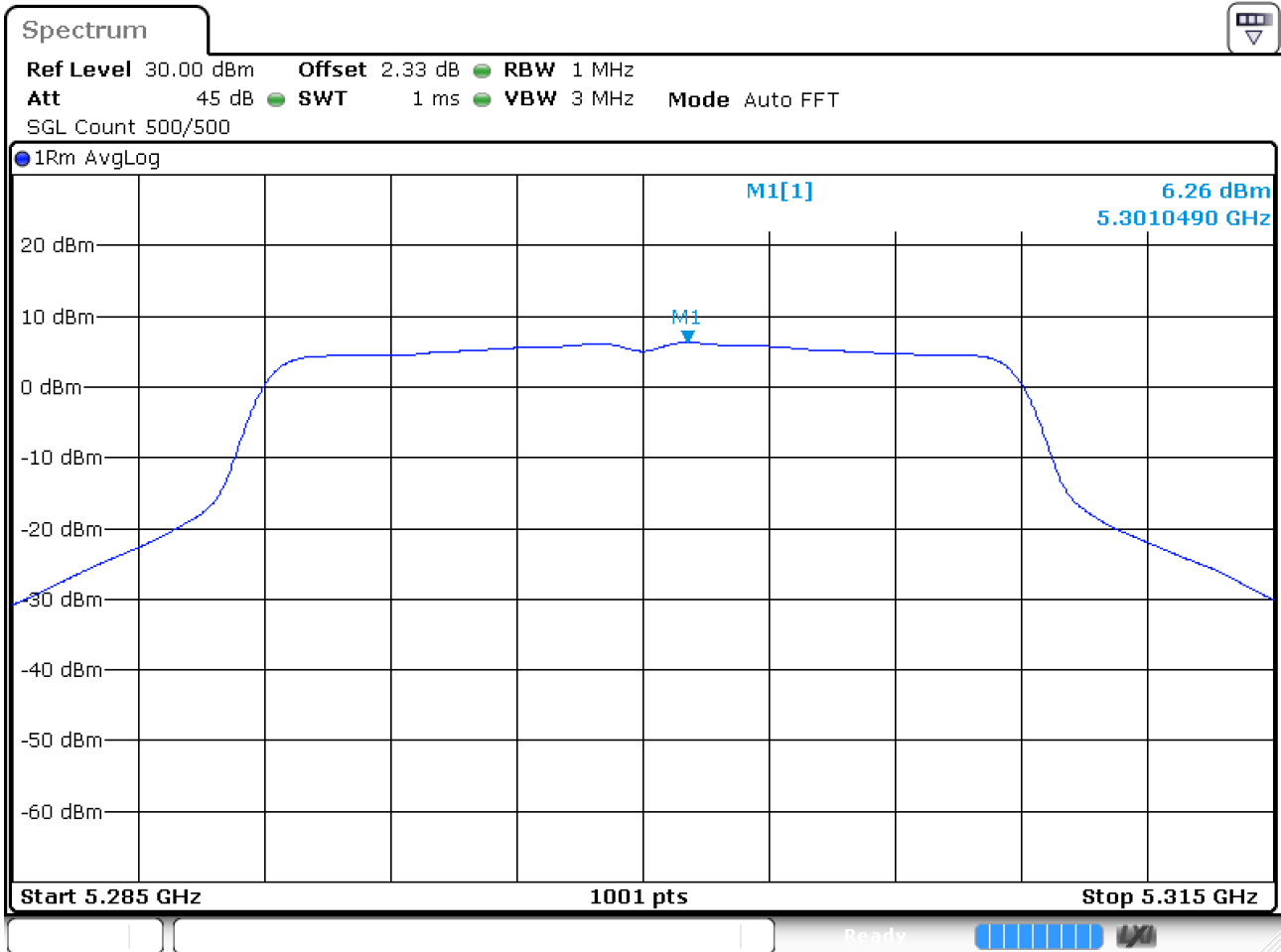


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4.8.2.18 11N20_60 ANT 1



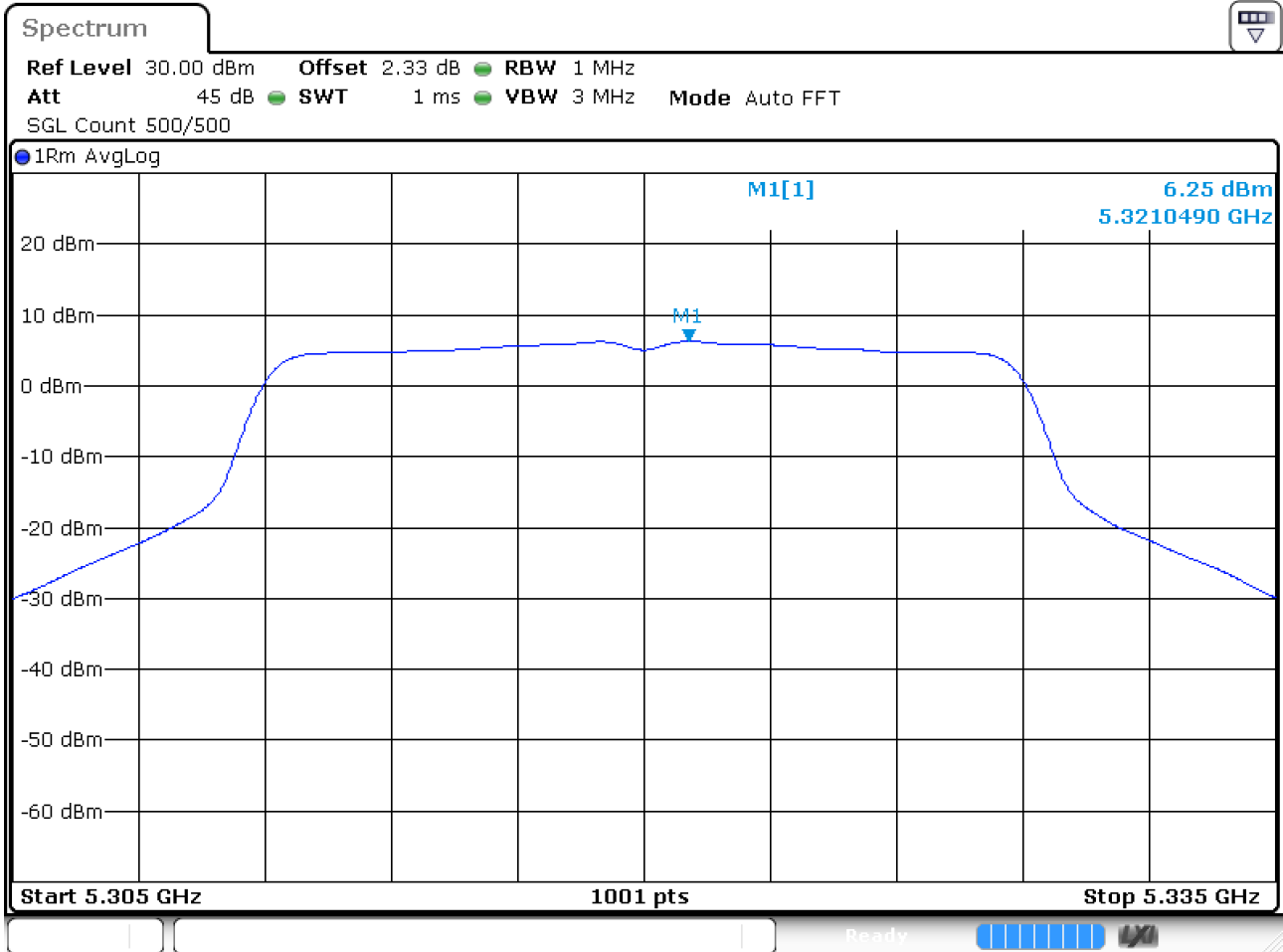
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4.8.2.19 11N20_64 ANT 1



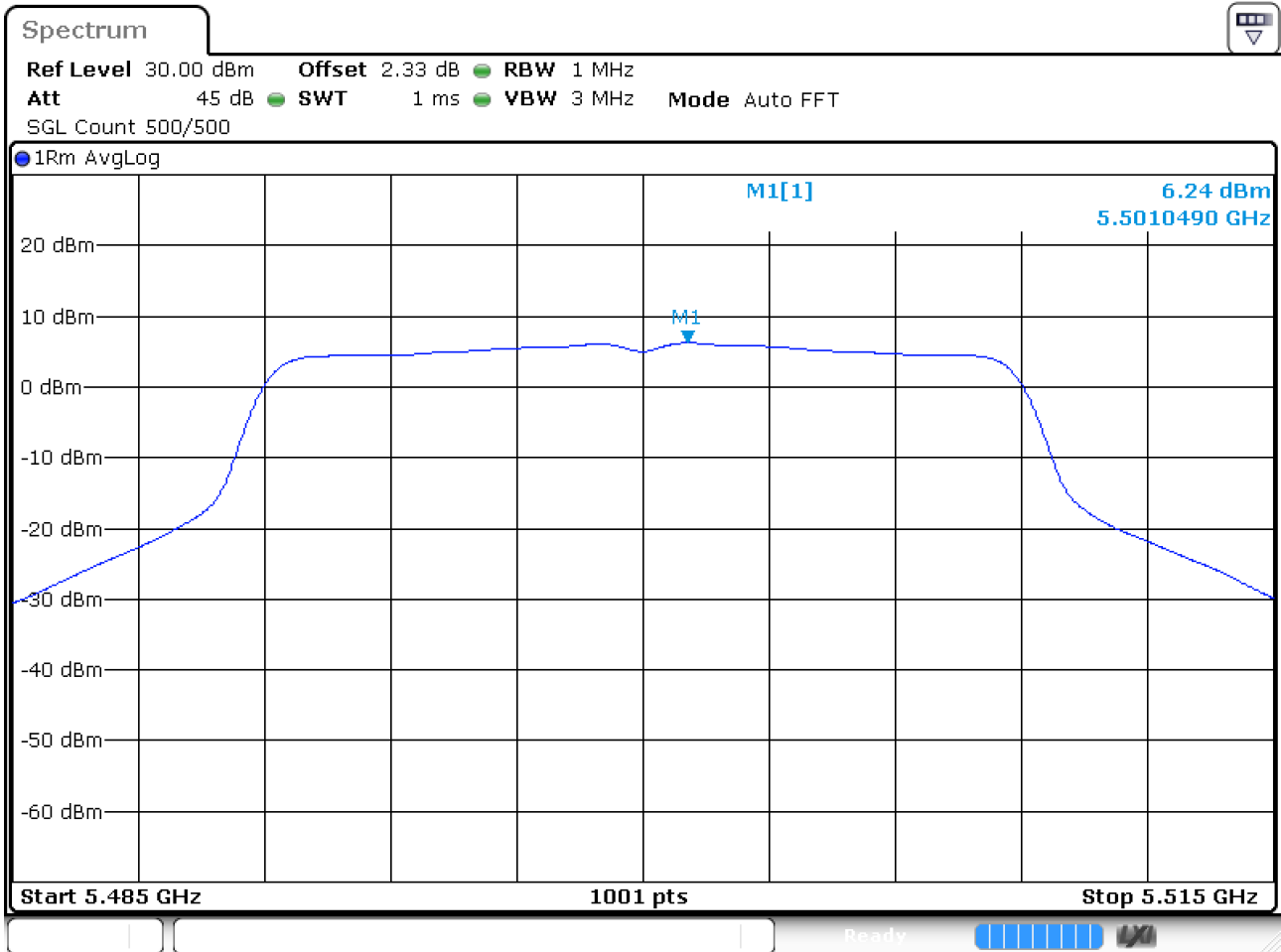
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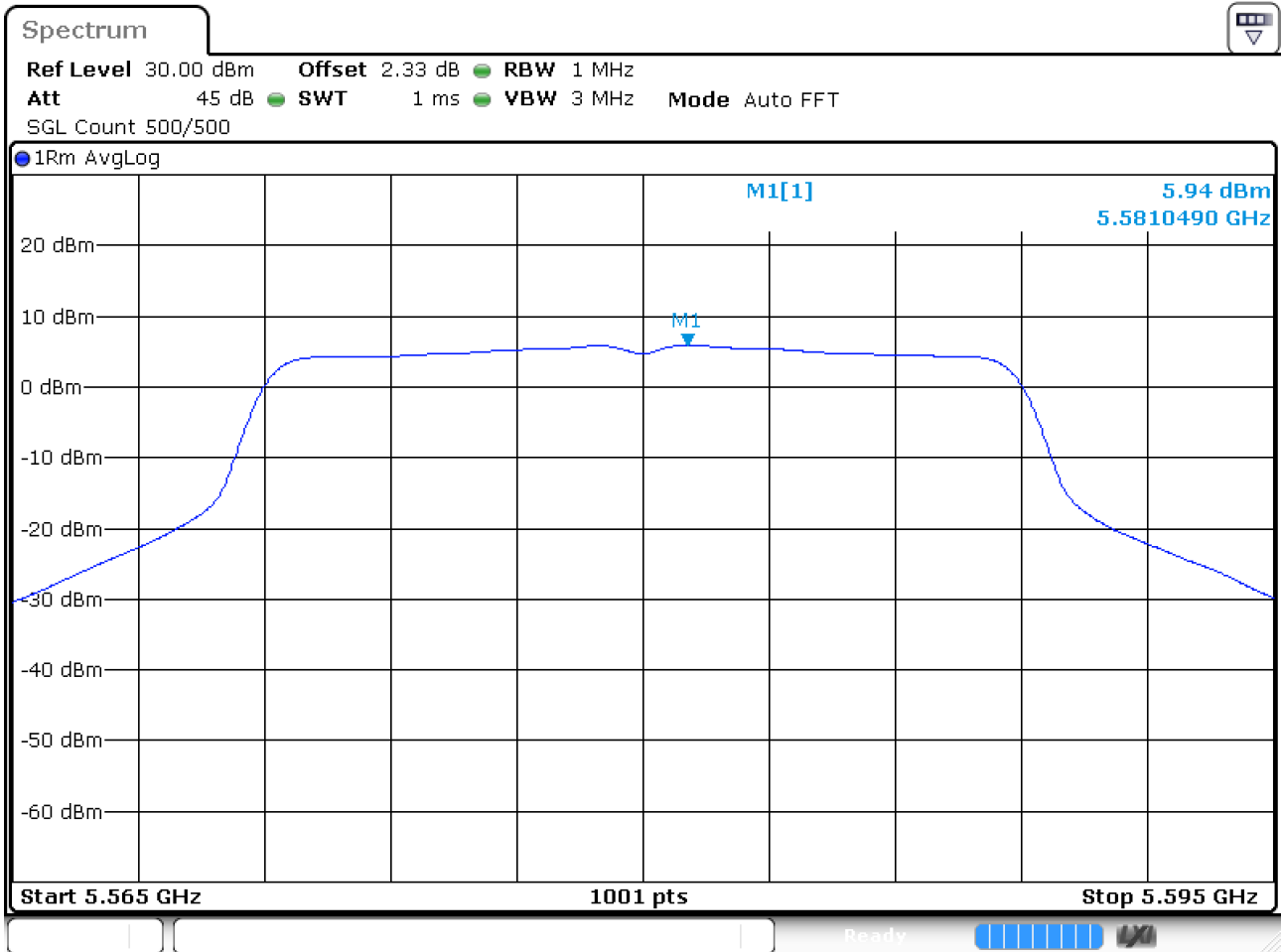
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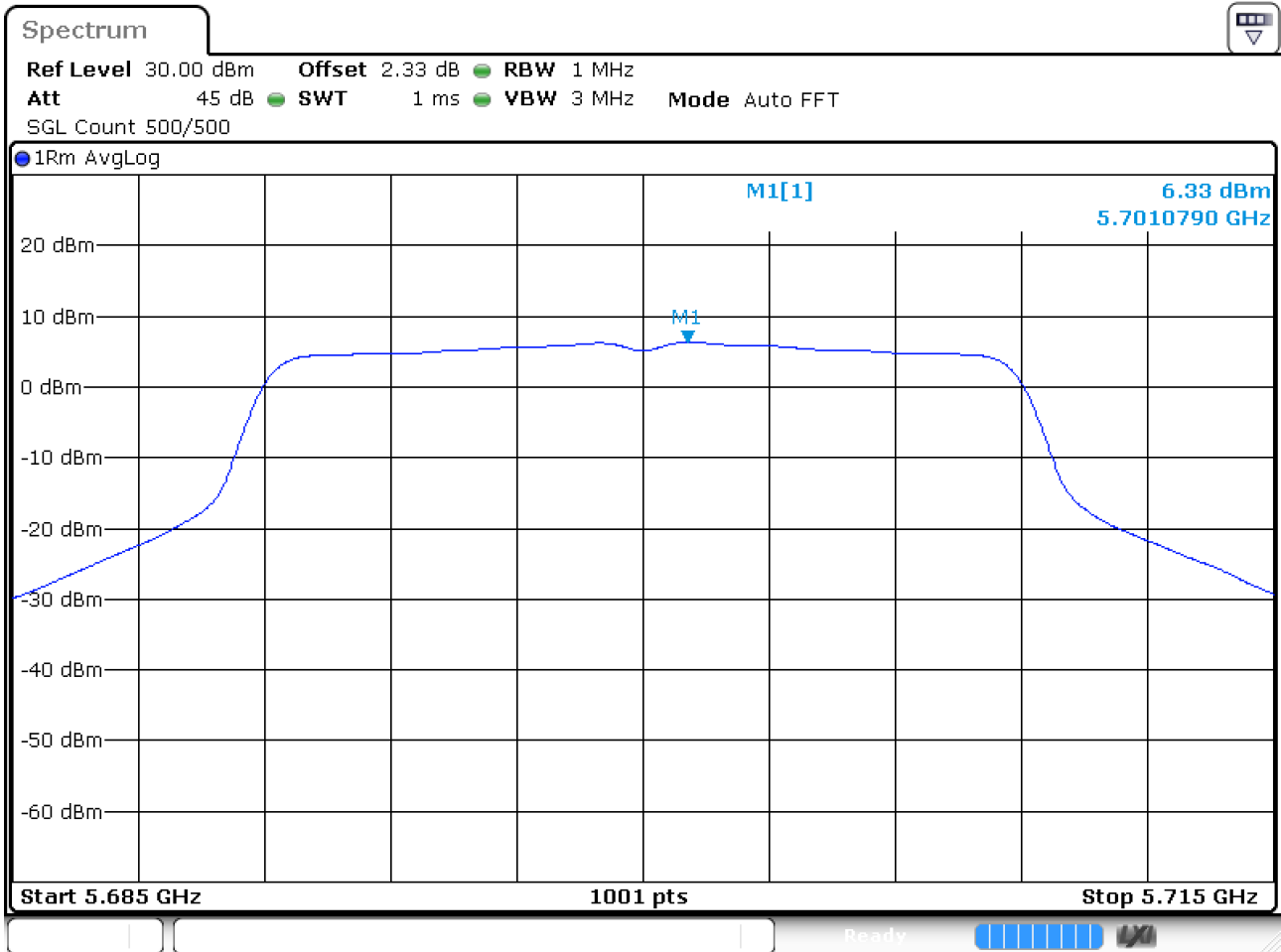
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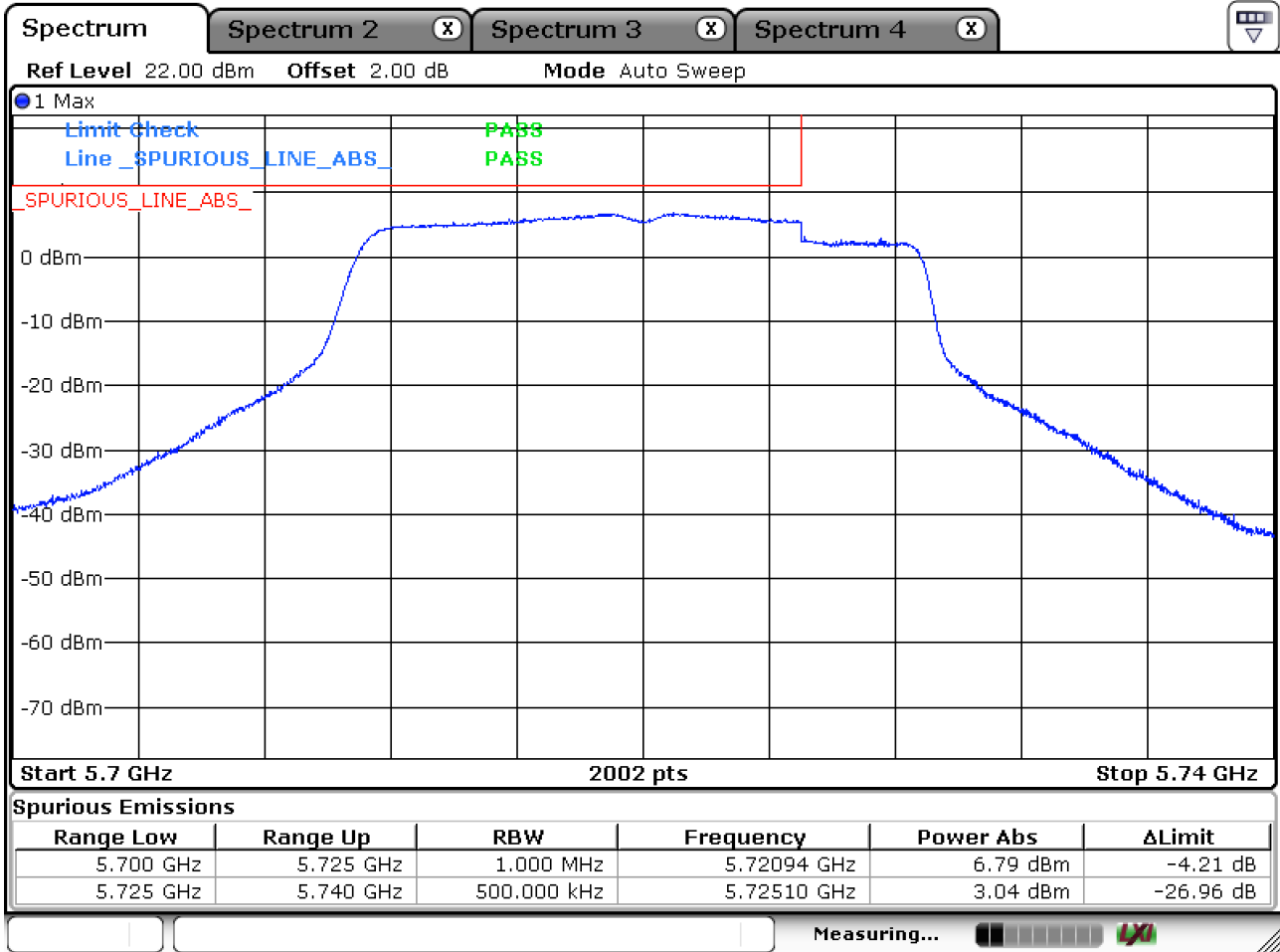
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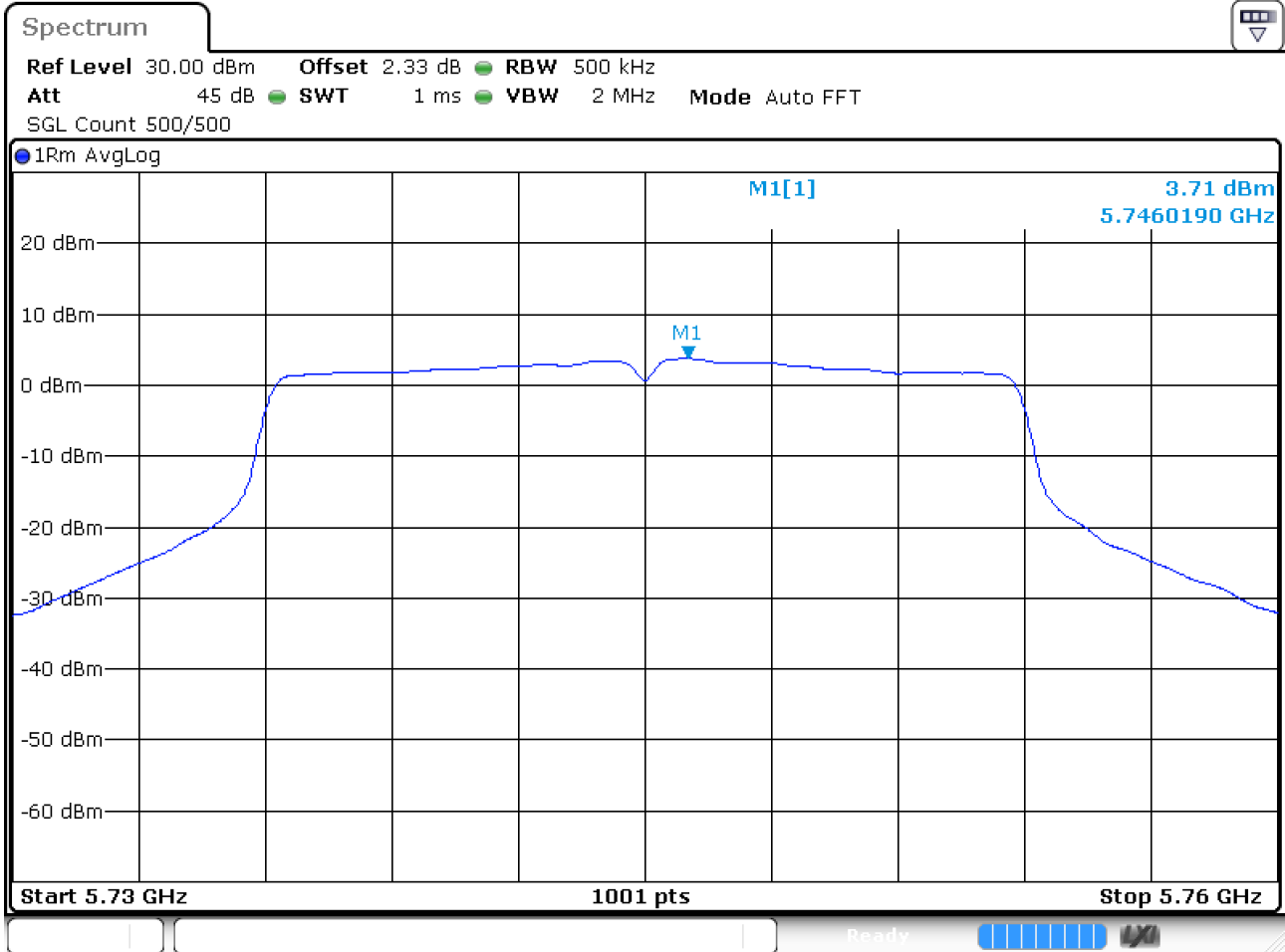
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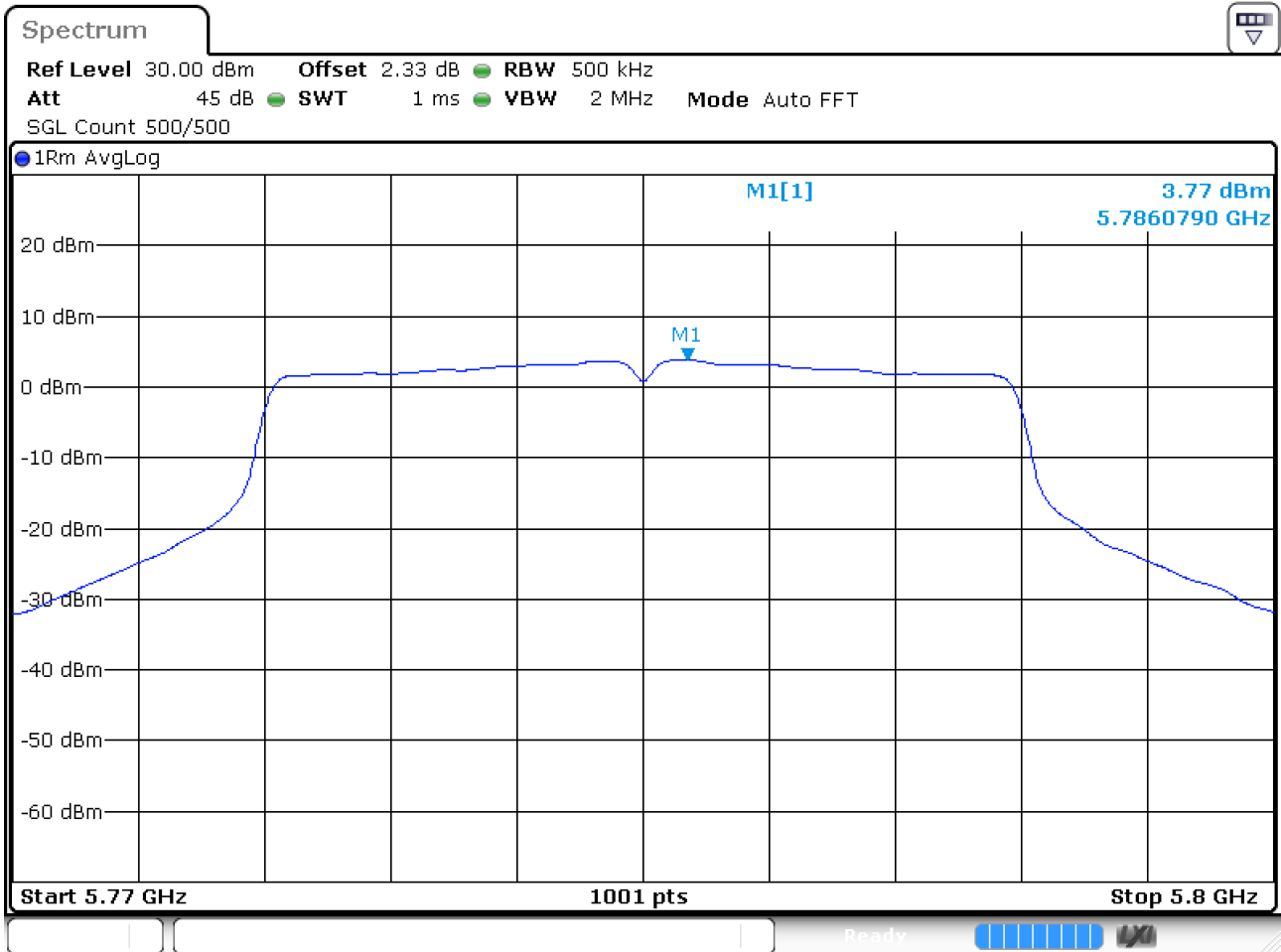
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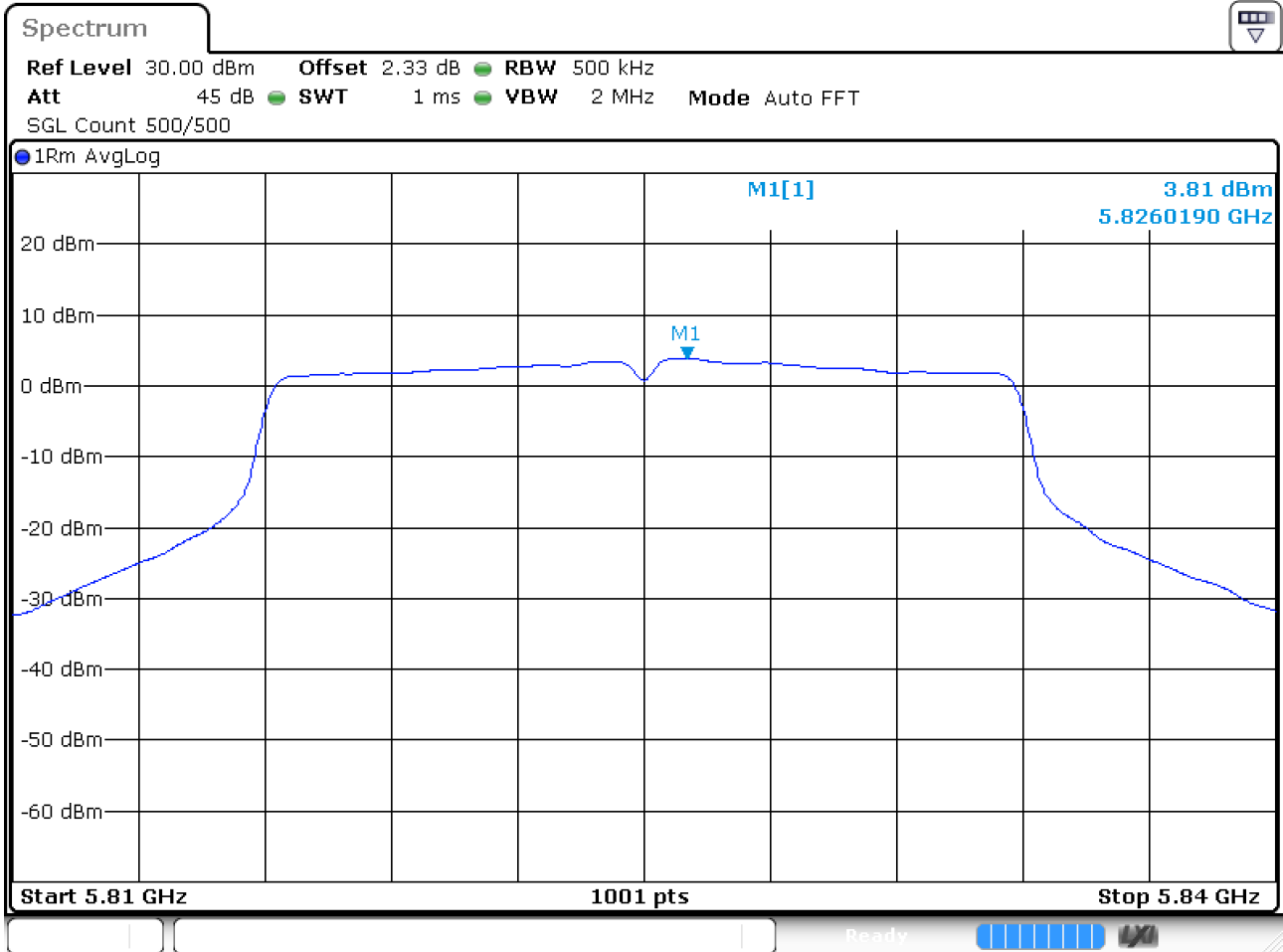
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4.8.2.26 11N20_165 ANT 1



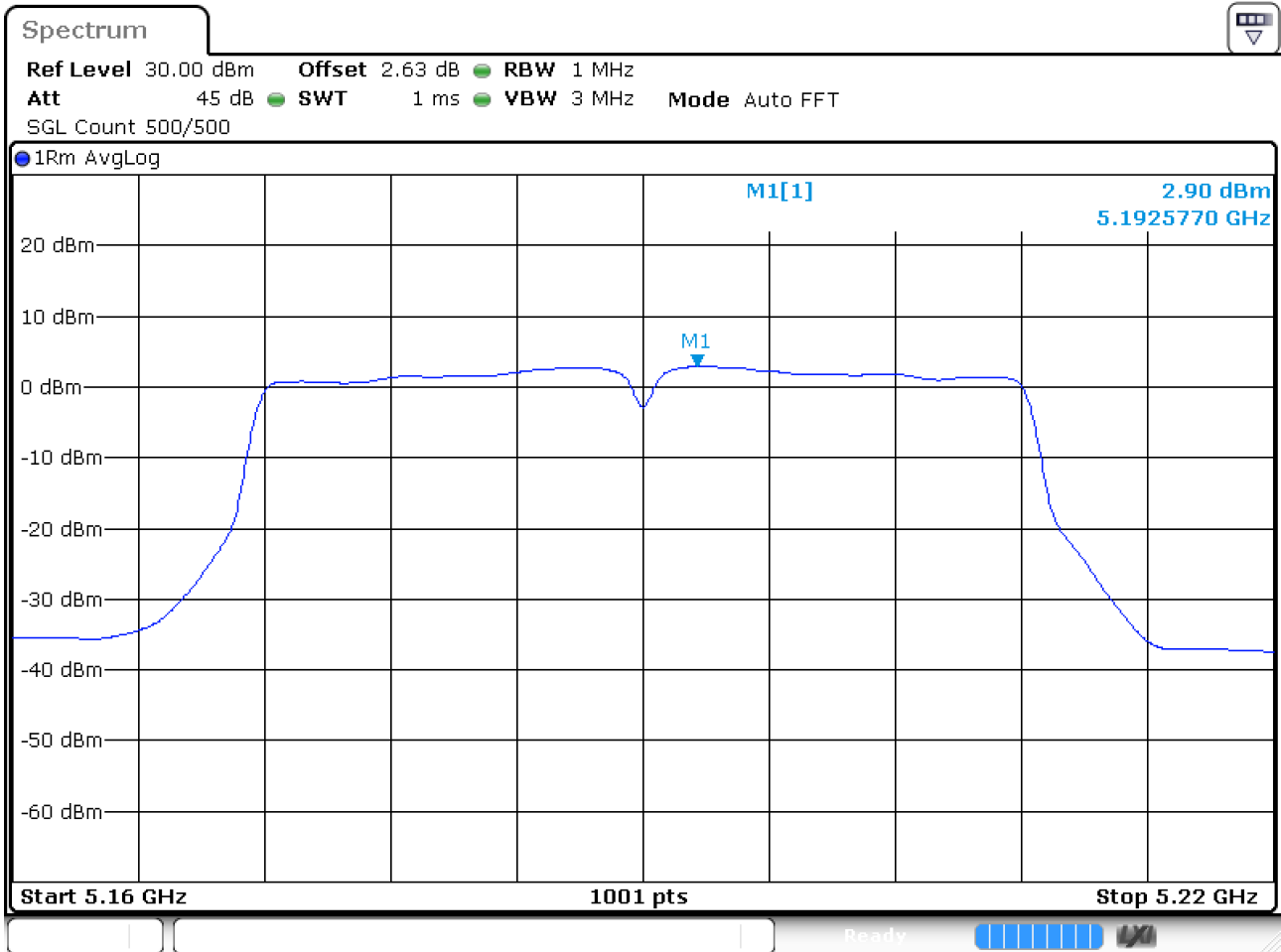
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4.8.2.27 11N40_38 ANT 1



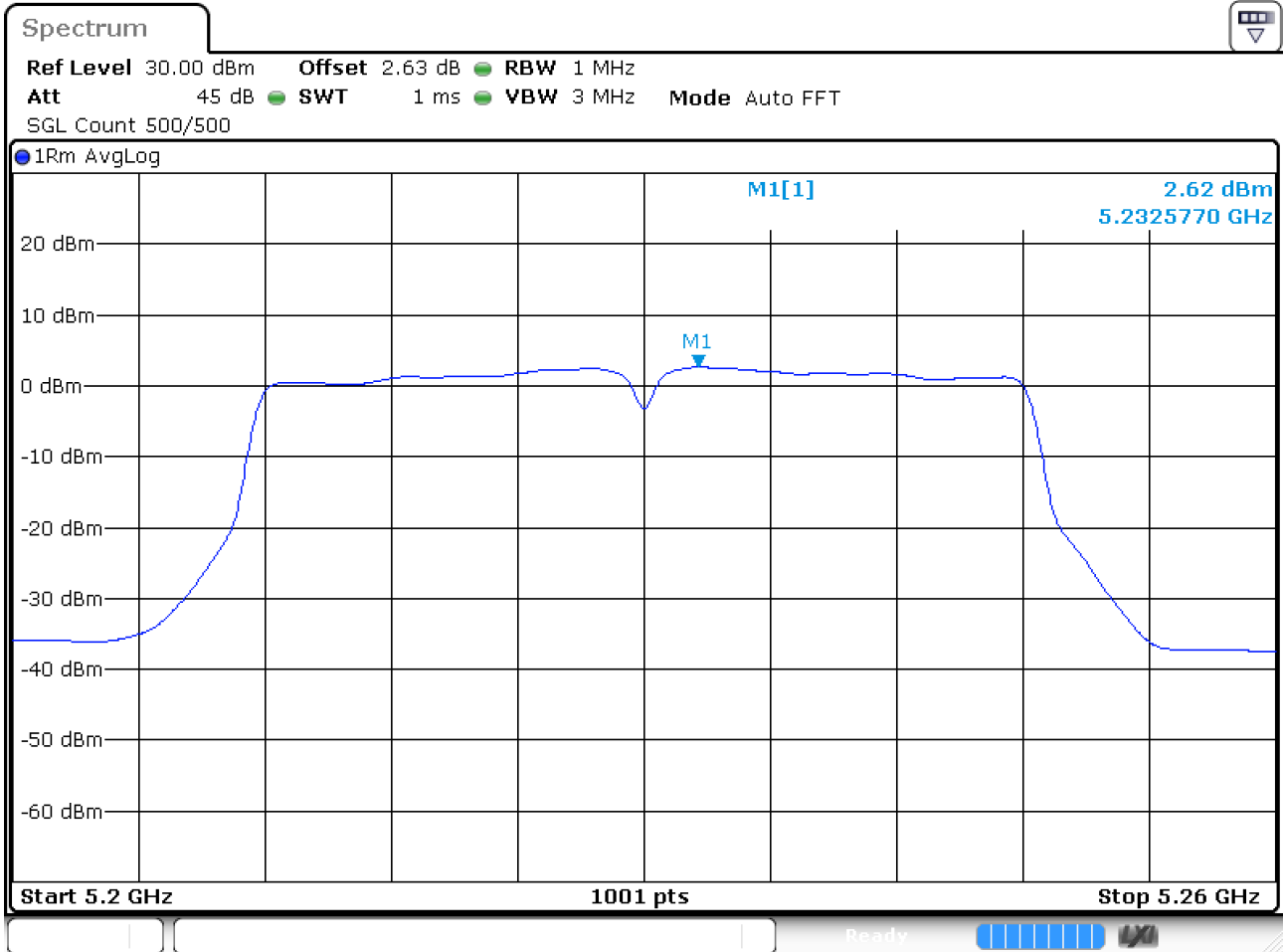
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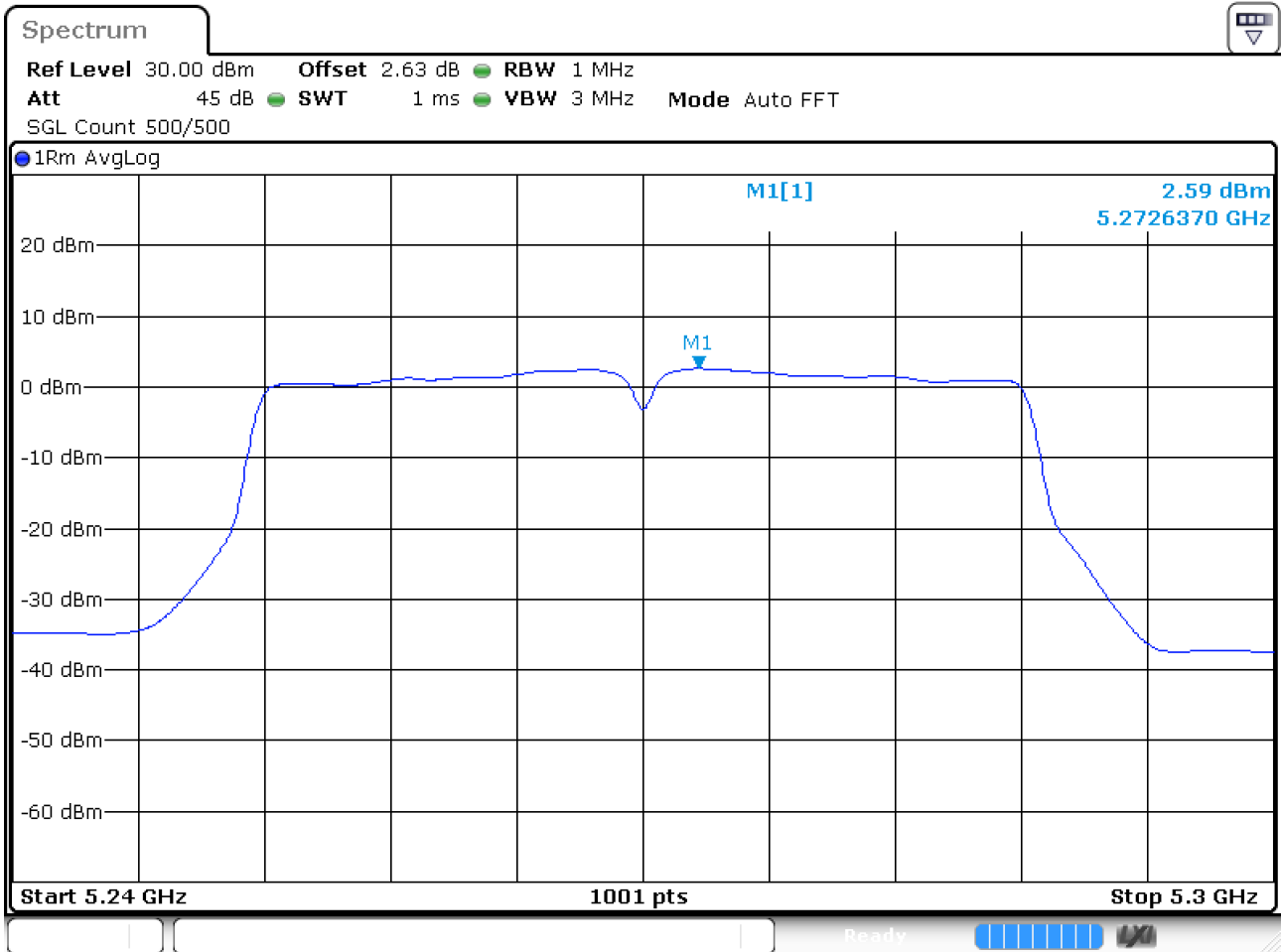
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4.8.2.29 11N40_54 ANT 1



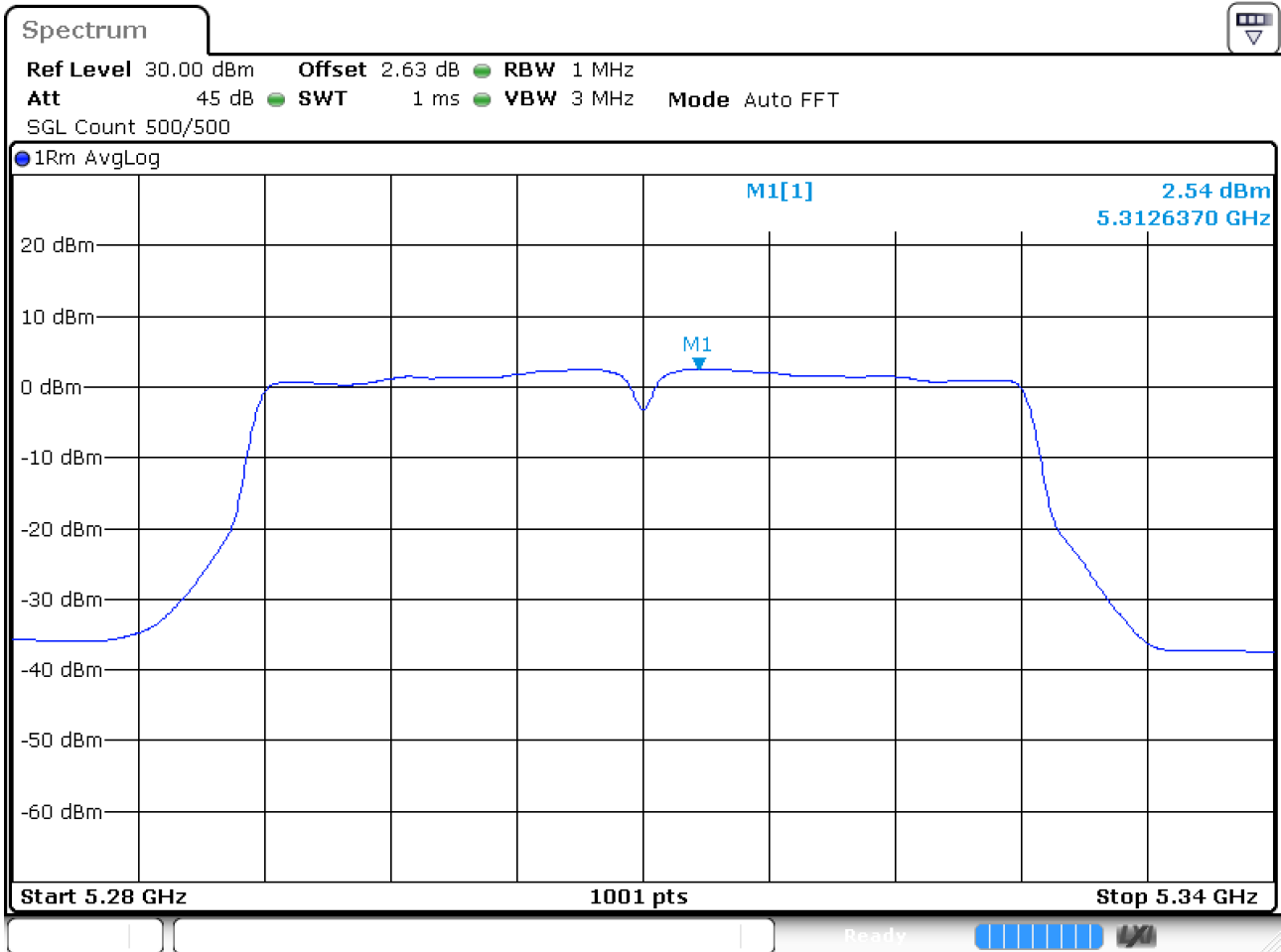
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4.8.2.30 11N40_62 ANT 1



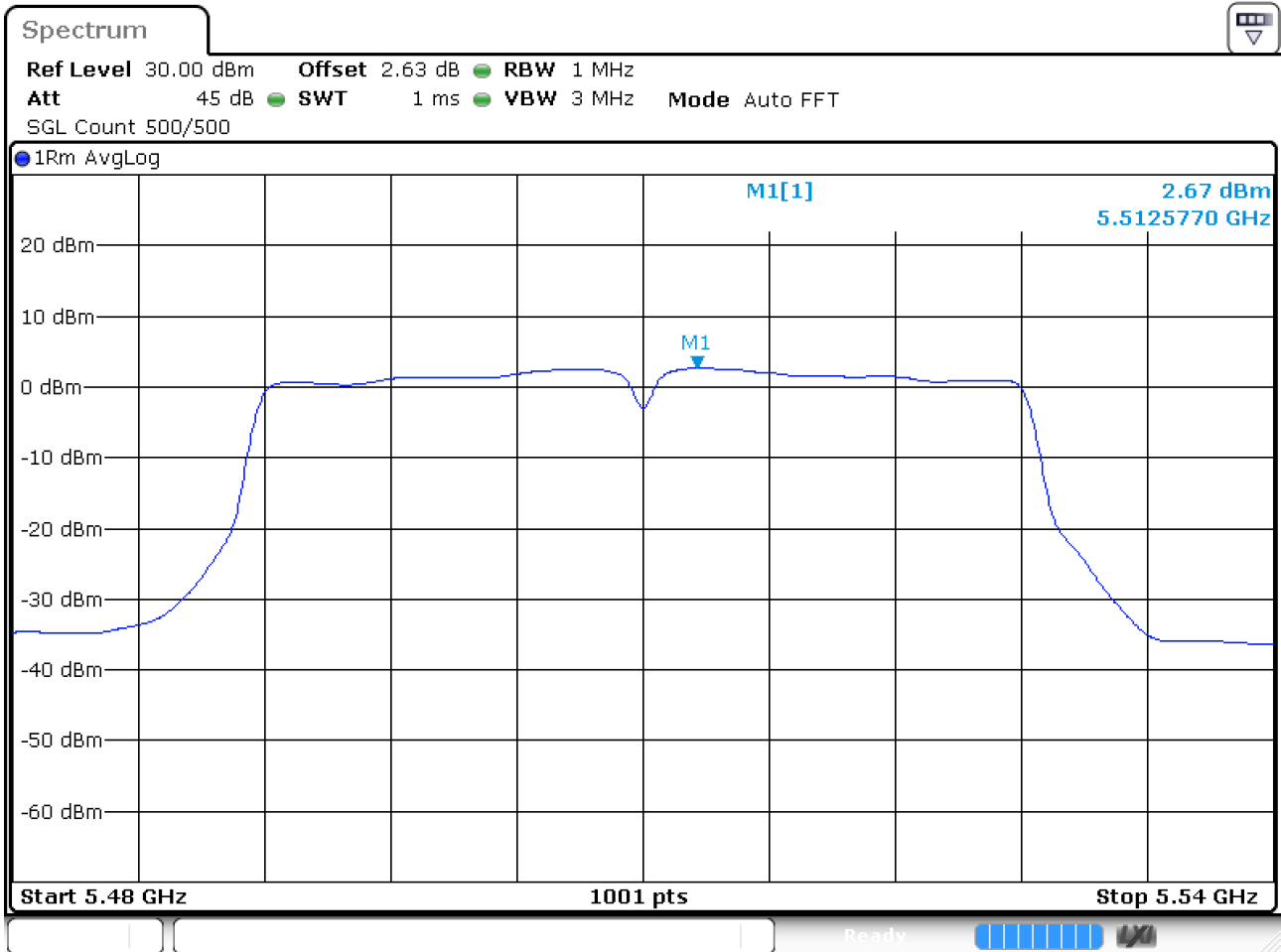
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4.8.2.31 11N40_102 ANT 1



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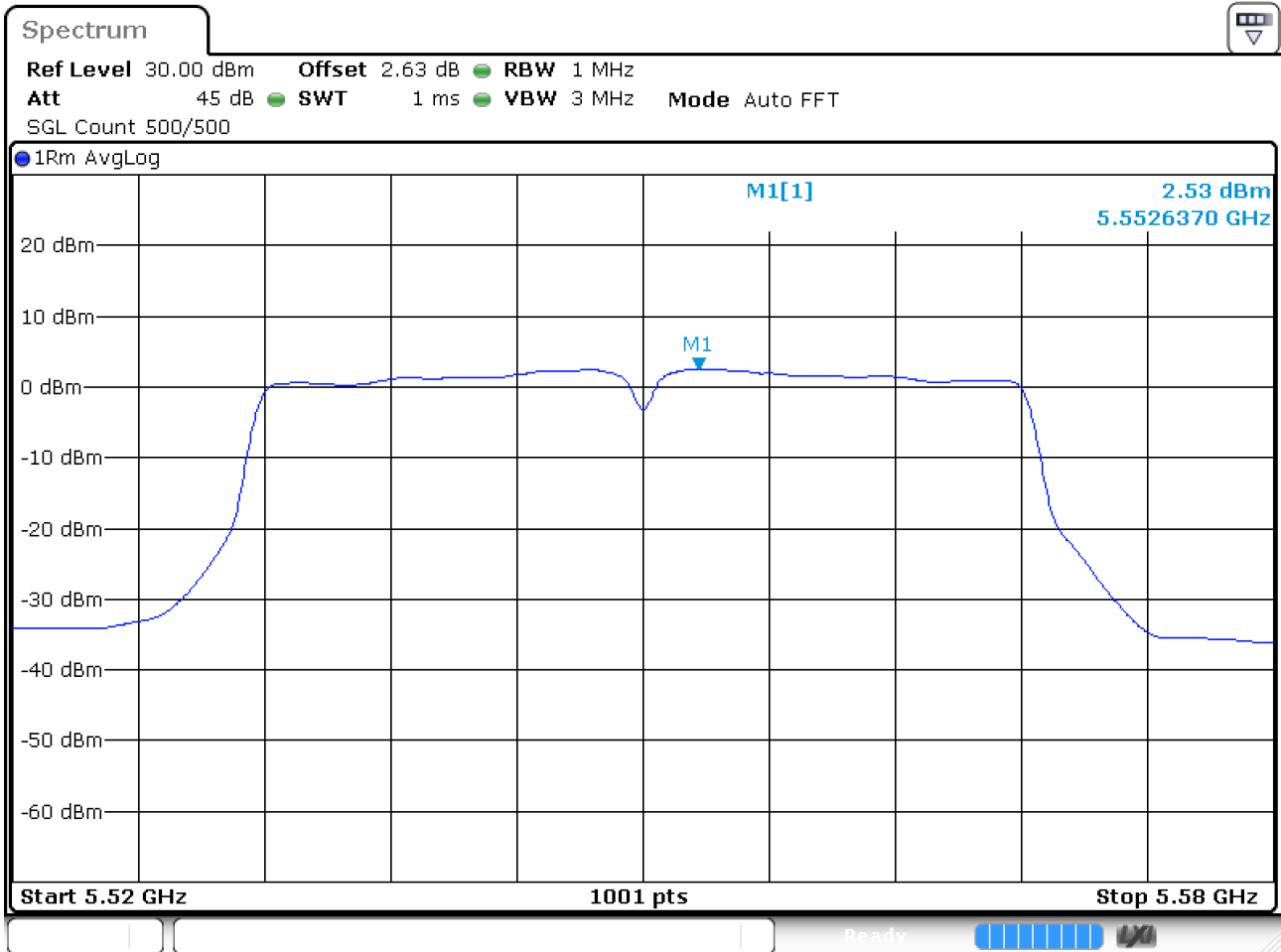


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4.8.2.32 11N40_110 ANT 1



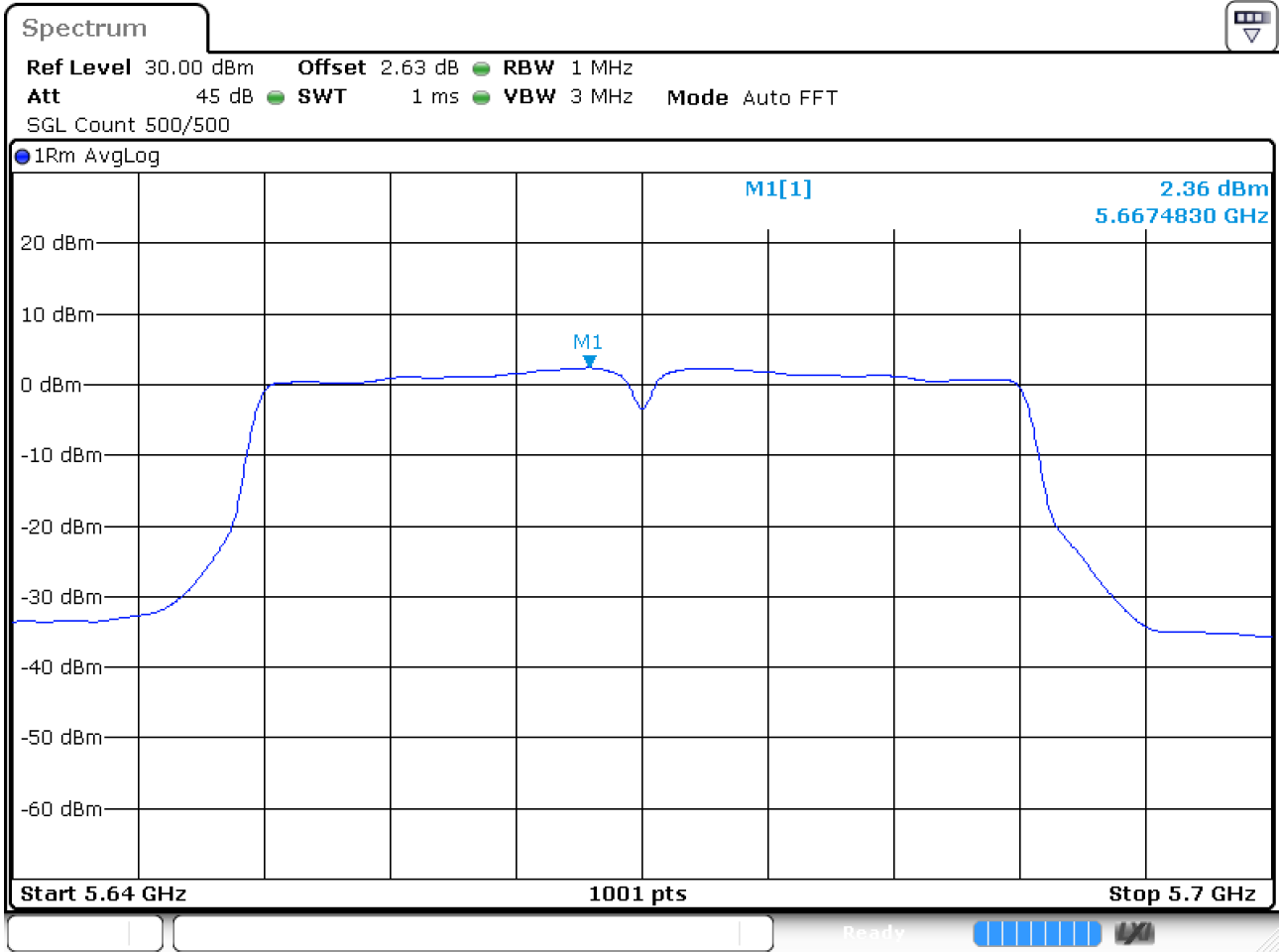
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4.8.2.33 11N40_134 ANT 1



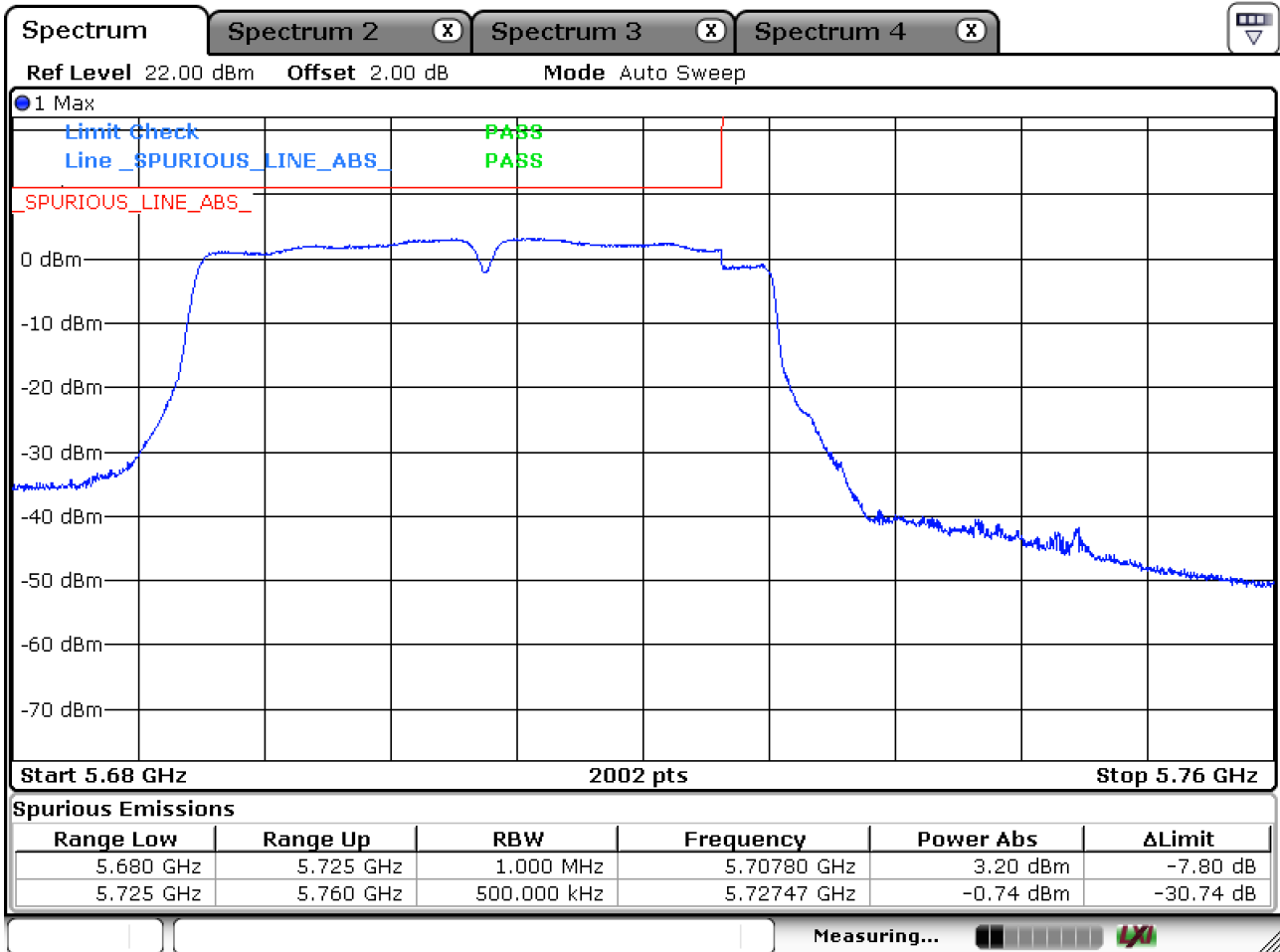
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4.8.2.34 11N40_142 ANT 1



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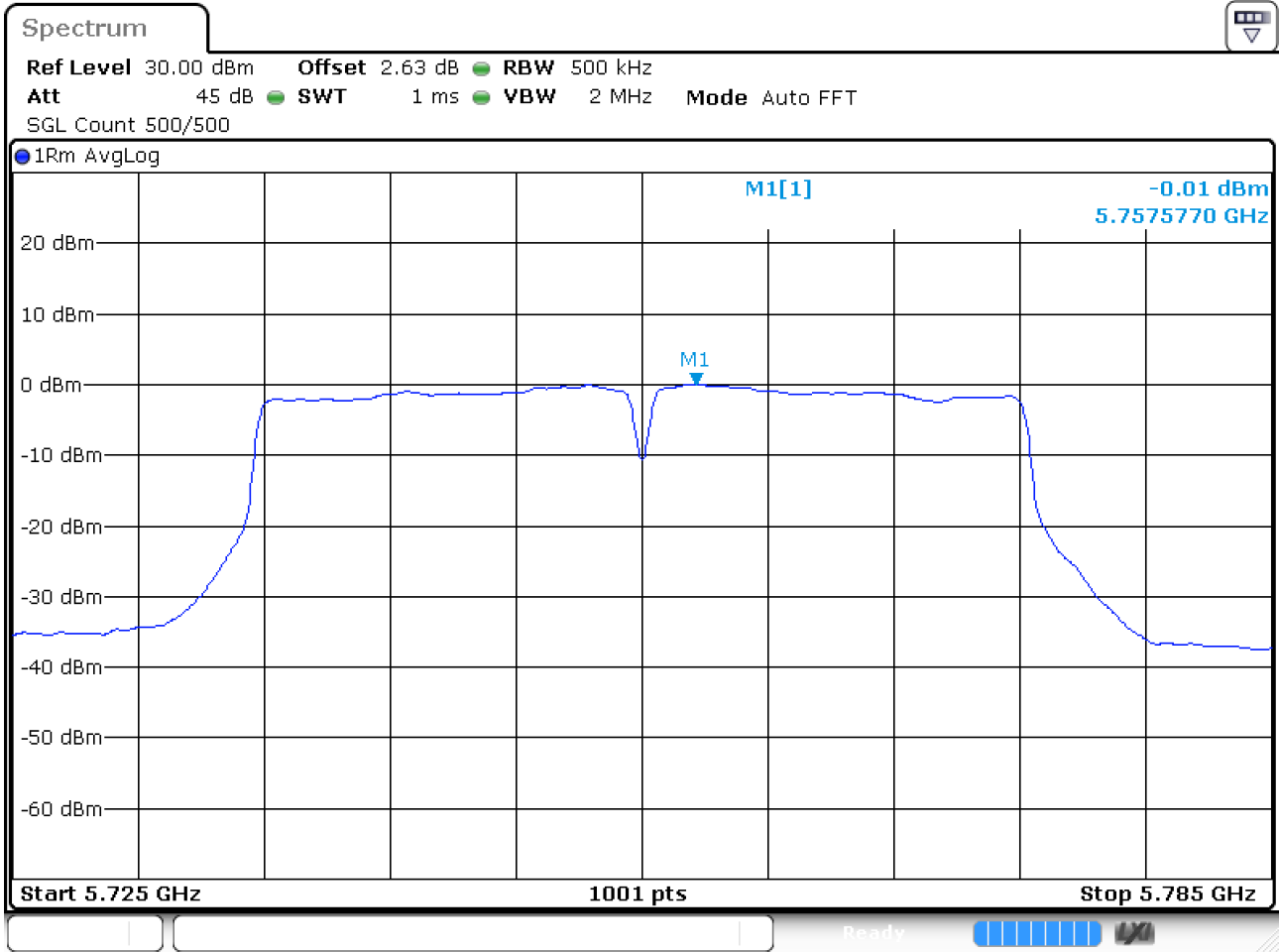


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4.8.2.35 11N40_151 ANT 1



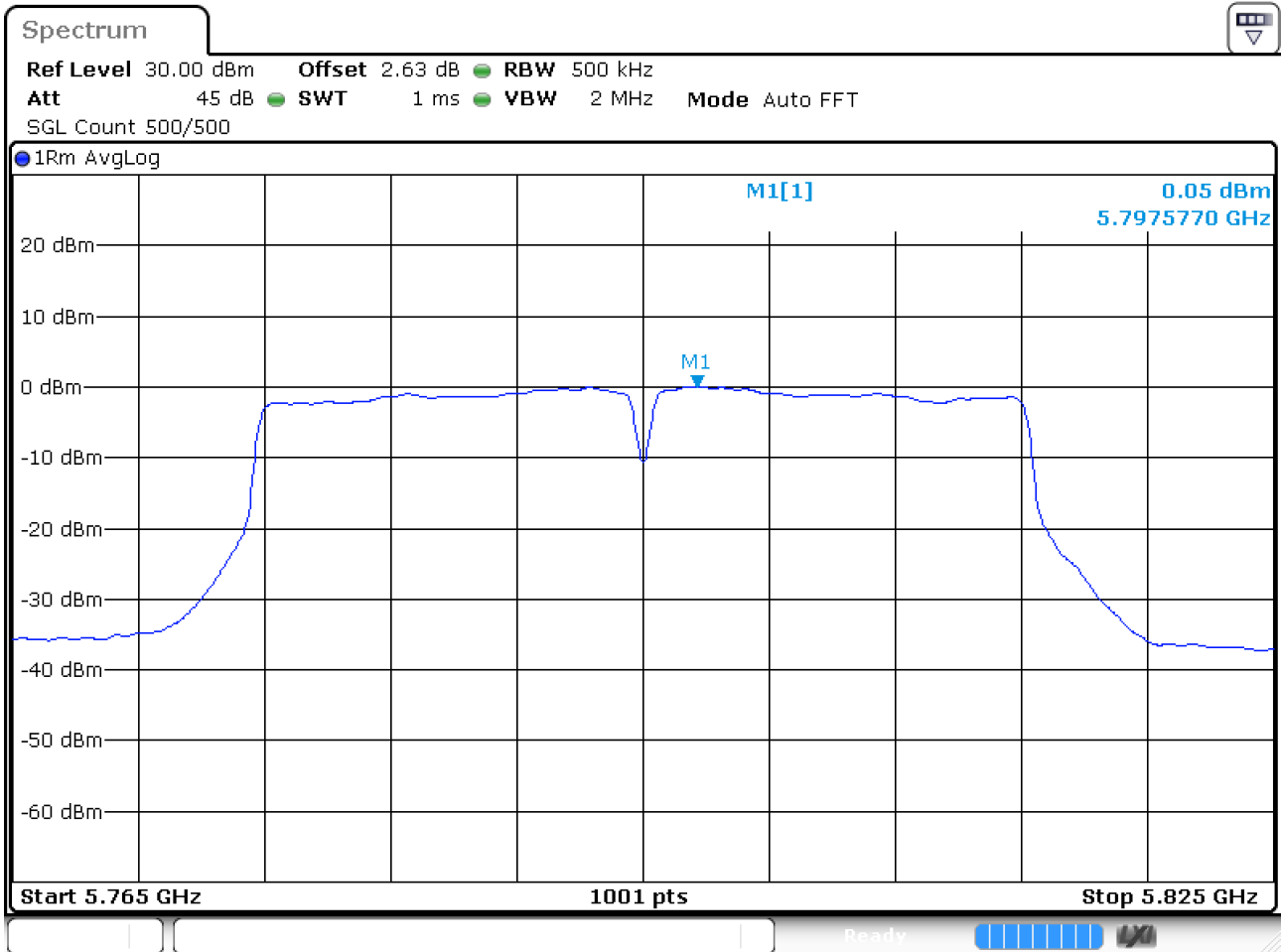
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4.8.2.36 11N40_159 ANT 1



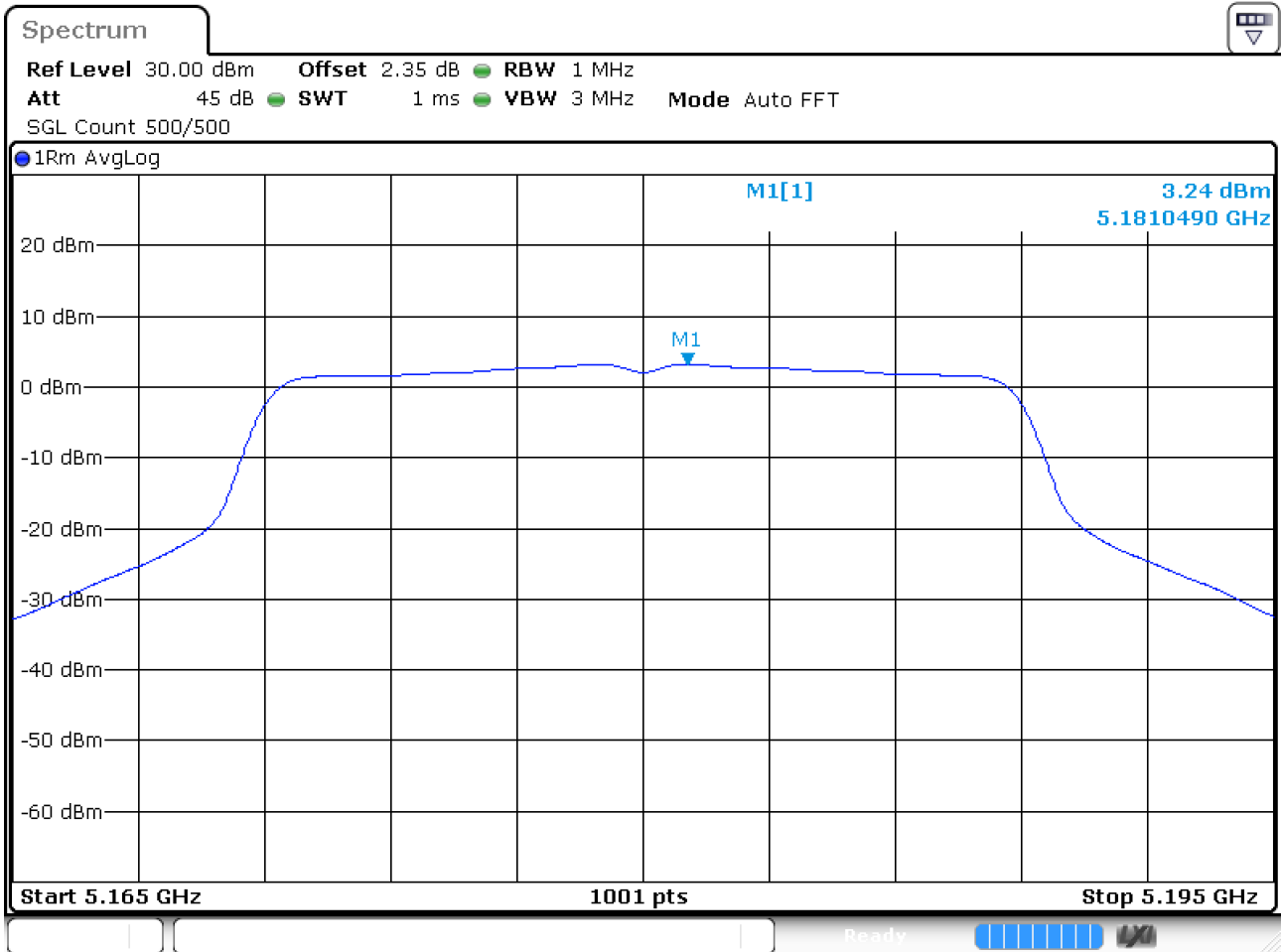
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4.8.2.37 11AC20_36 ANT 1



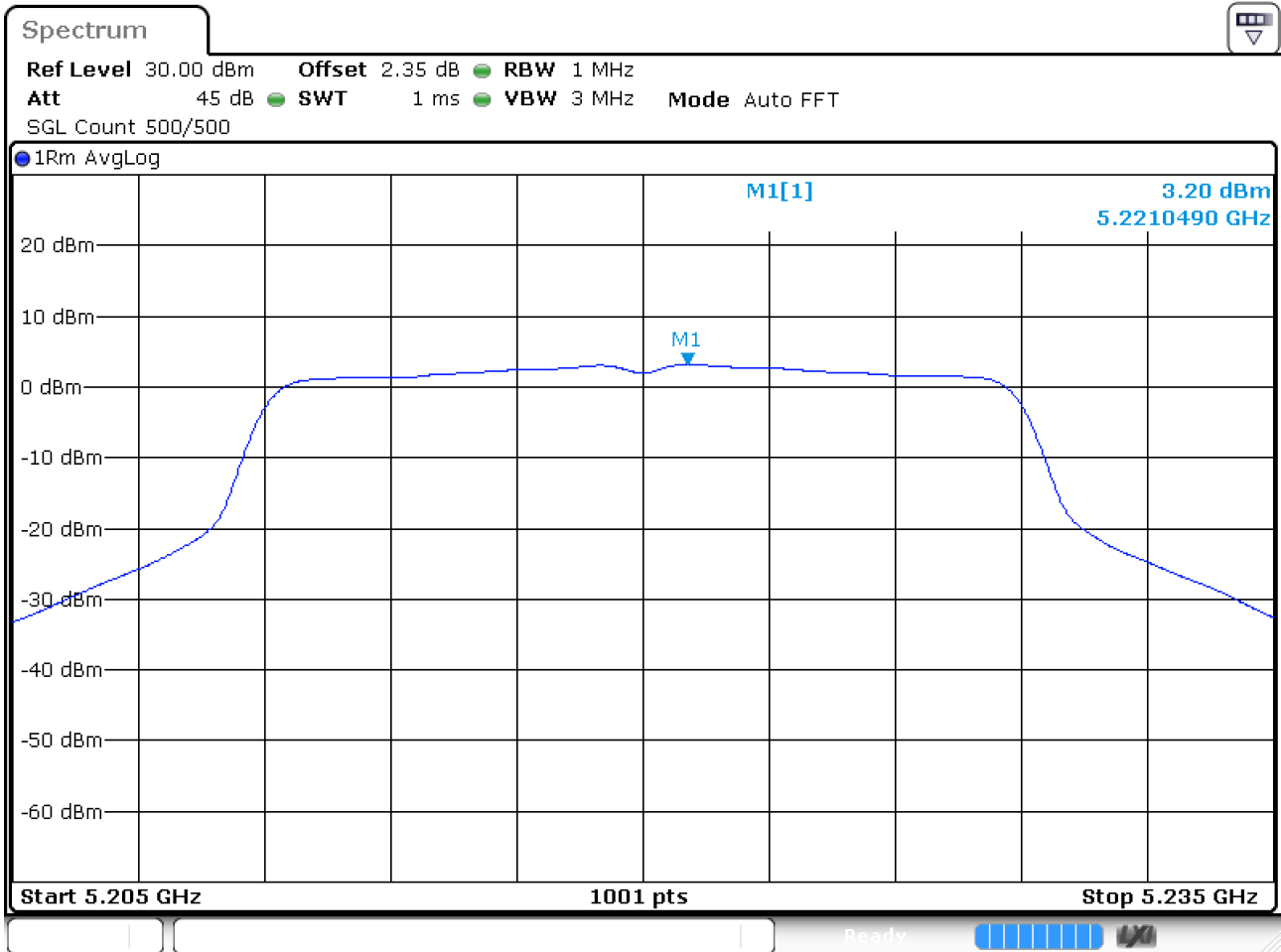
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4.8.2.38 11AC20_44 ANT 1



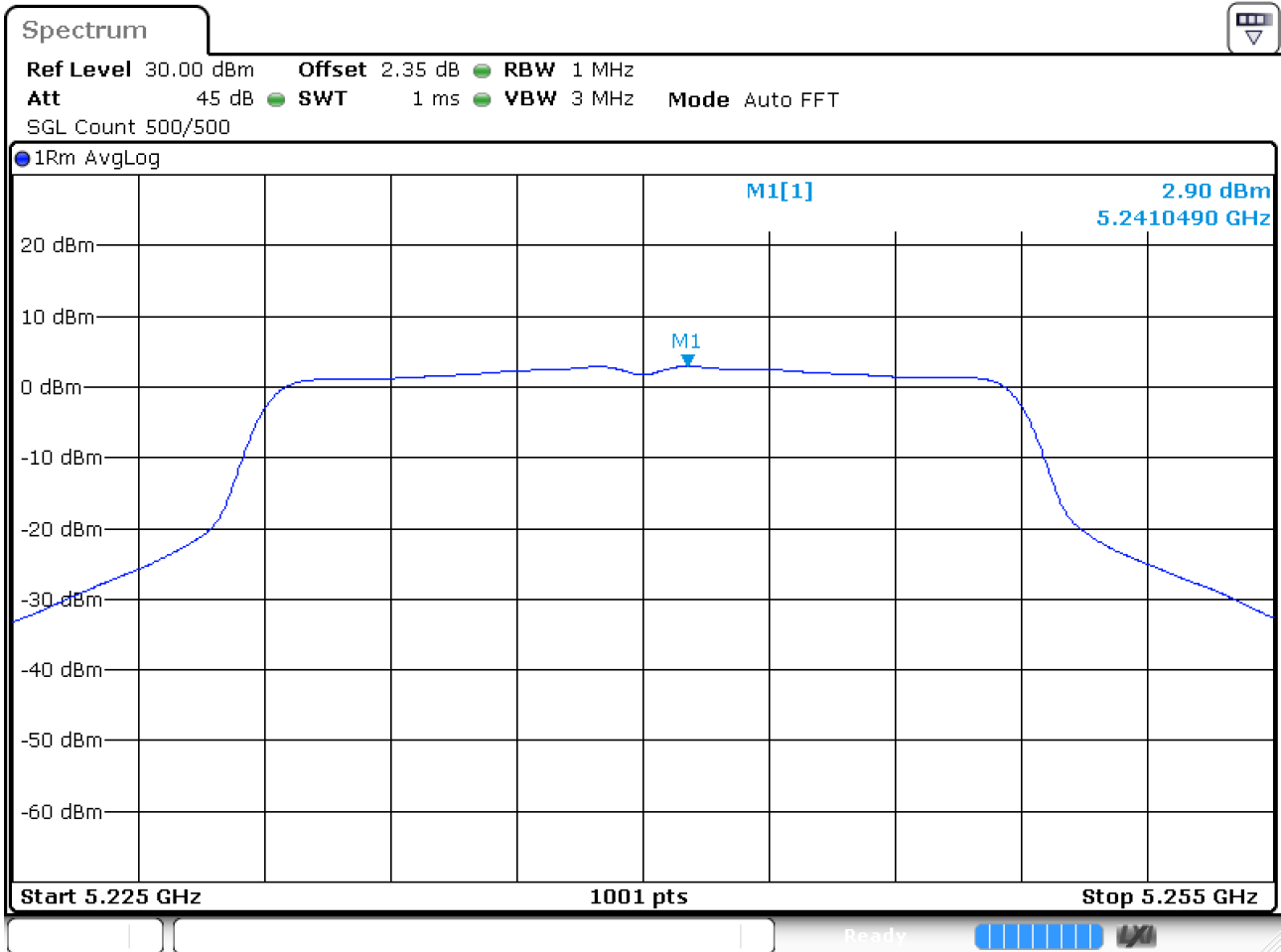
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4.8.2.39 11AC20_48 ANT 1



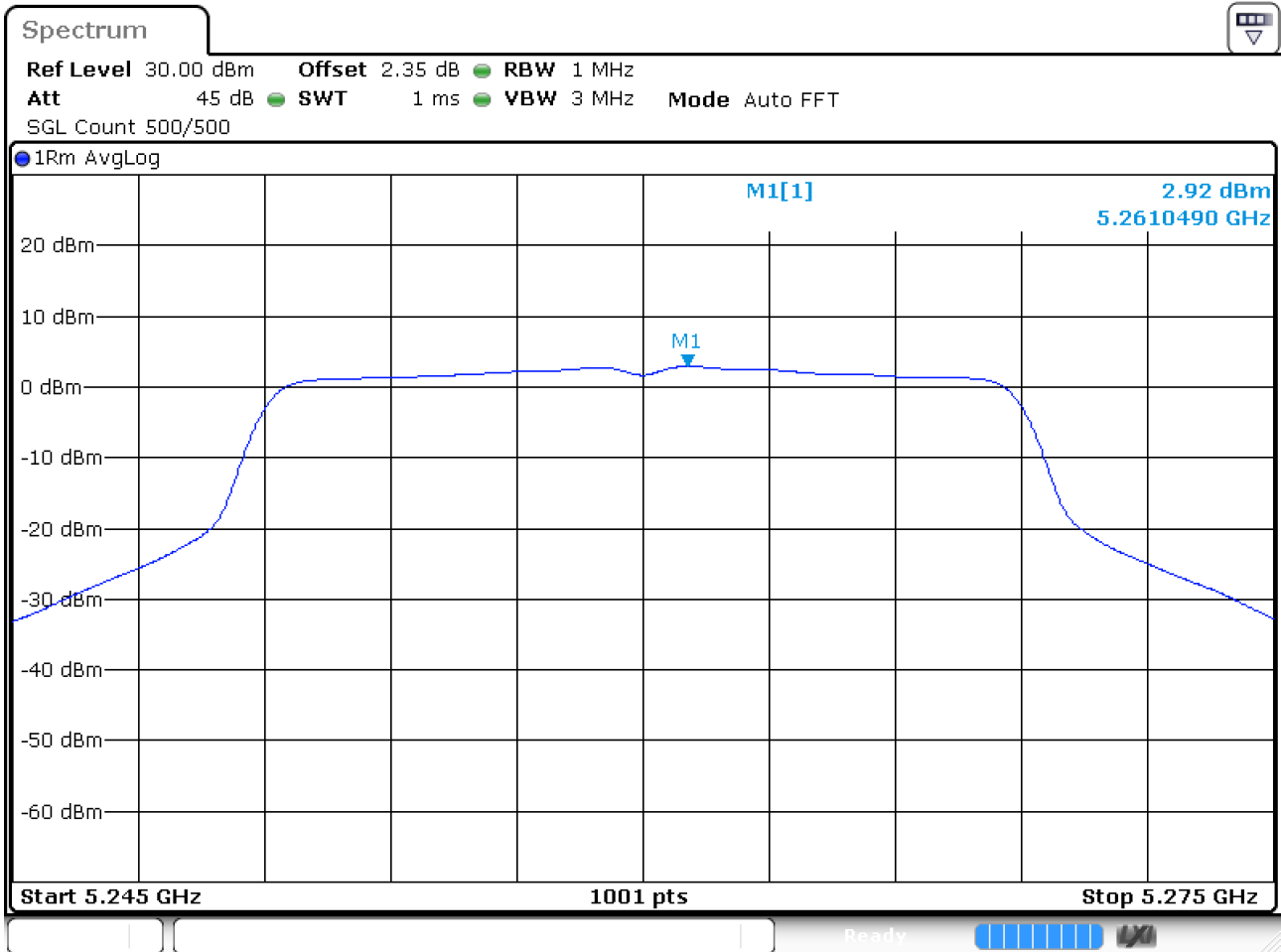
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4.8.2.40 11AC20_52 ANT 1



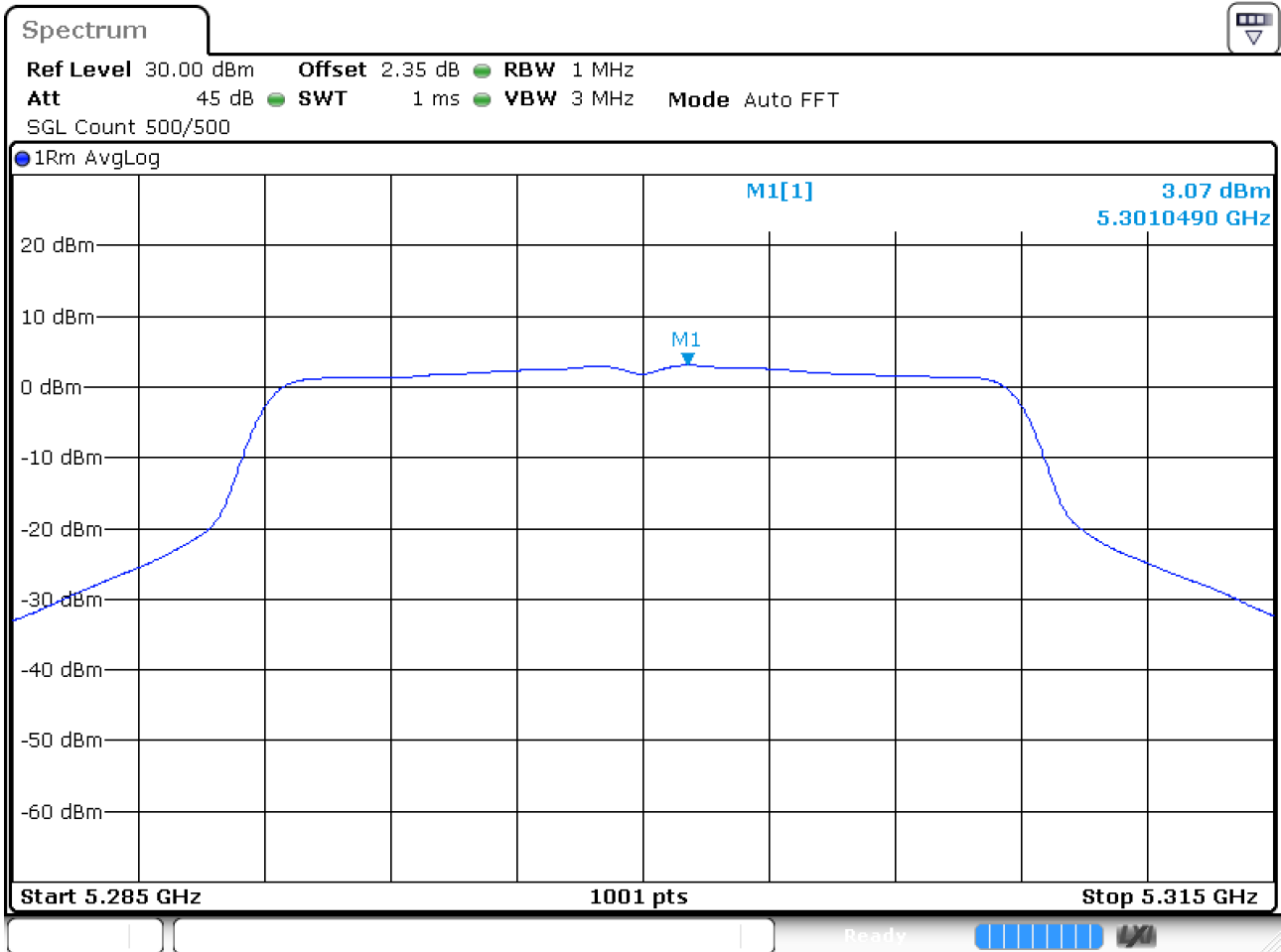
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4.8.2.41 11AC20_60 ANT 1



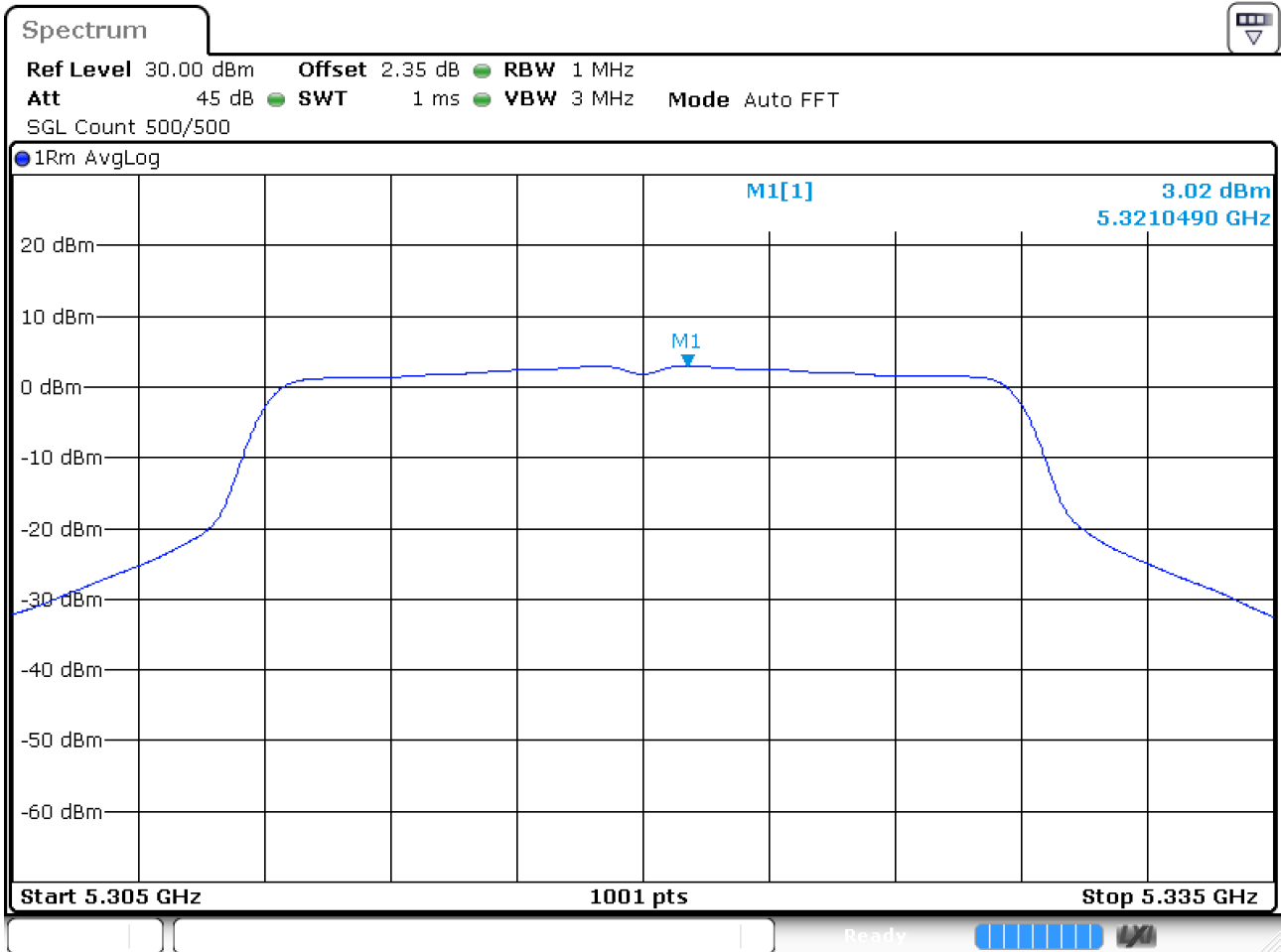
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4.8.2.42 11AC20_64 ANT 1



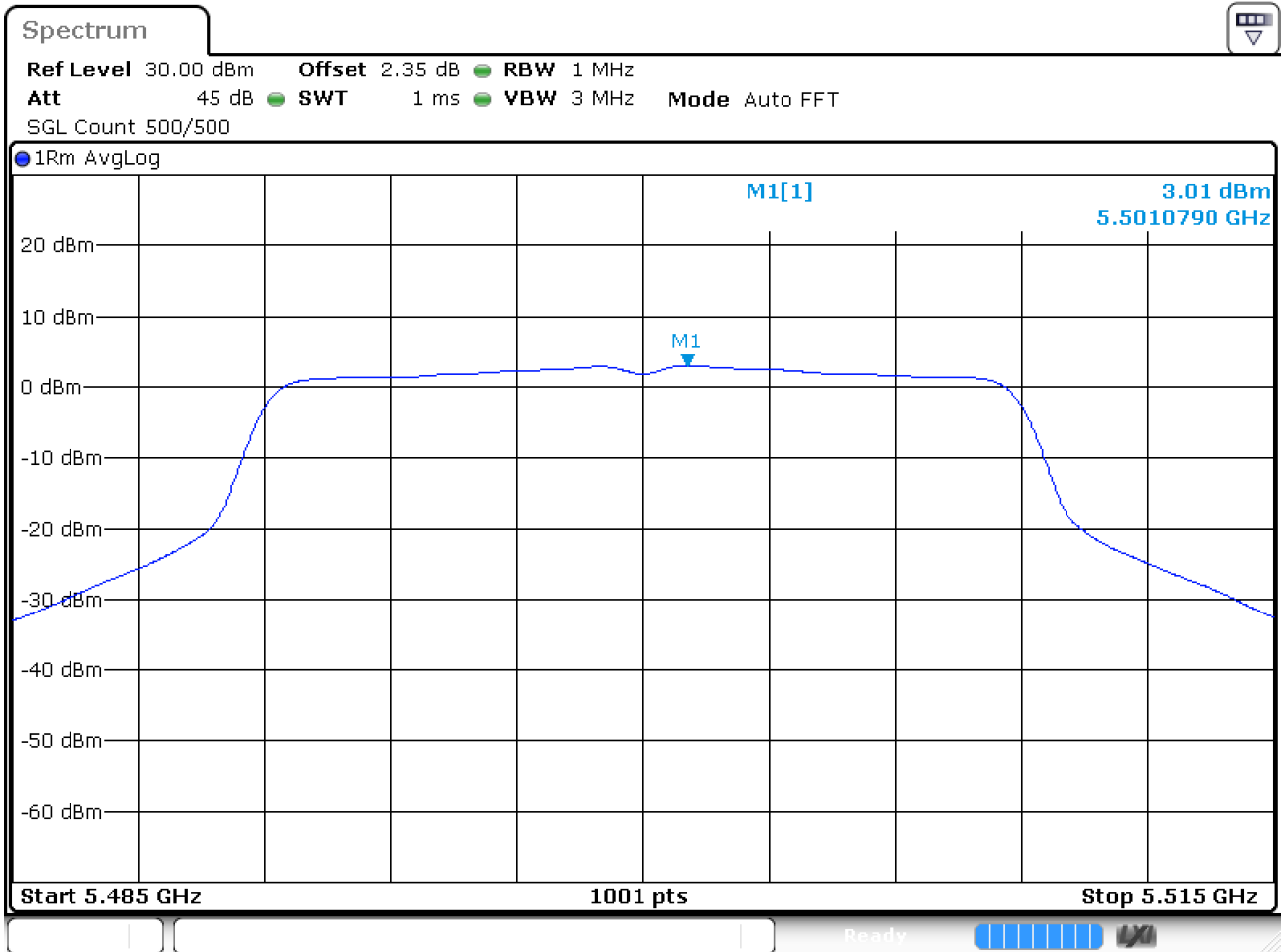
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4.8.2.43 11AC20_100 ANT 1



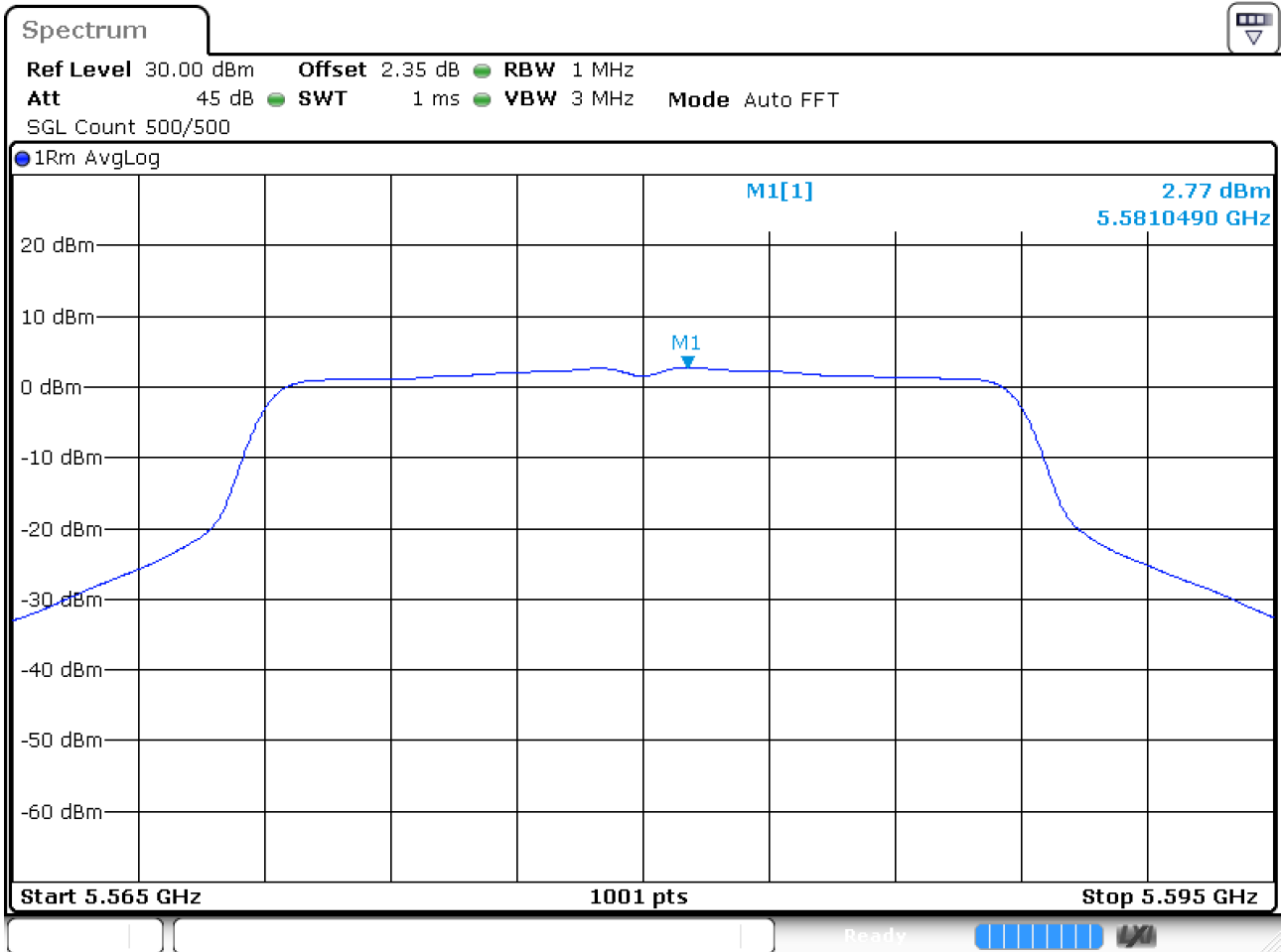
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4.8.2.44 11AC20_116 ANT 1



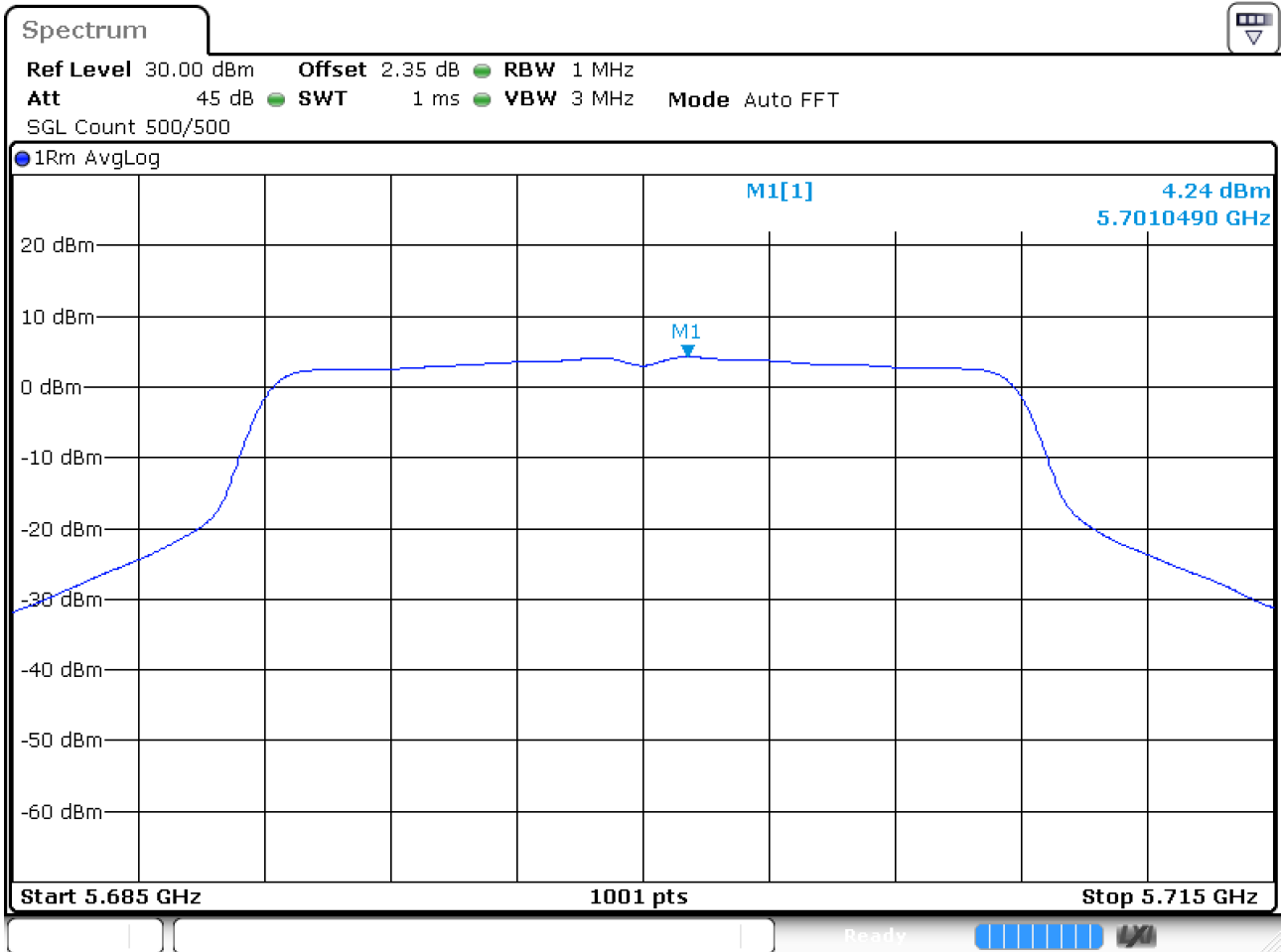
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4.8.2.45 11AC20_140 ANT 1



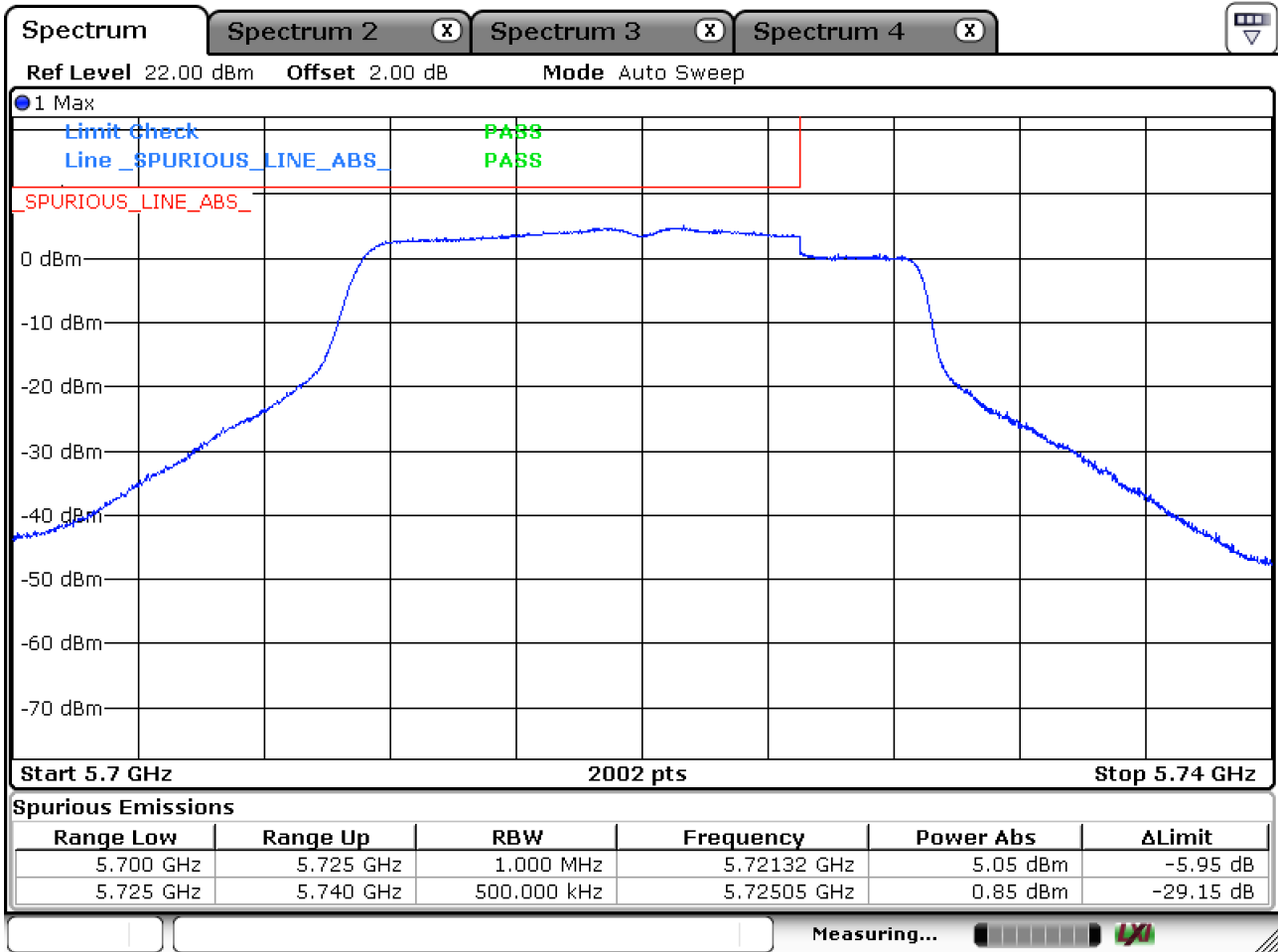
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4.8.2.46 11AC20_144 ANT 1



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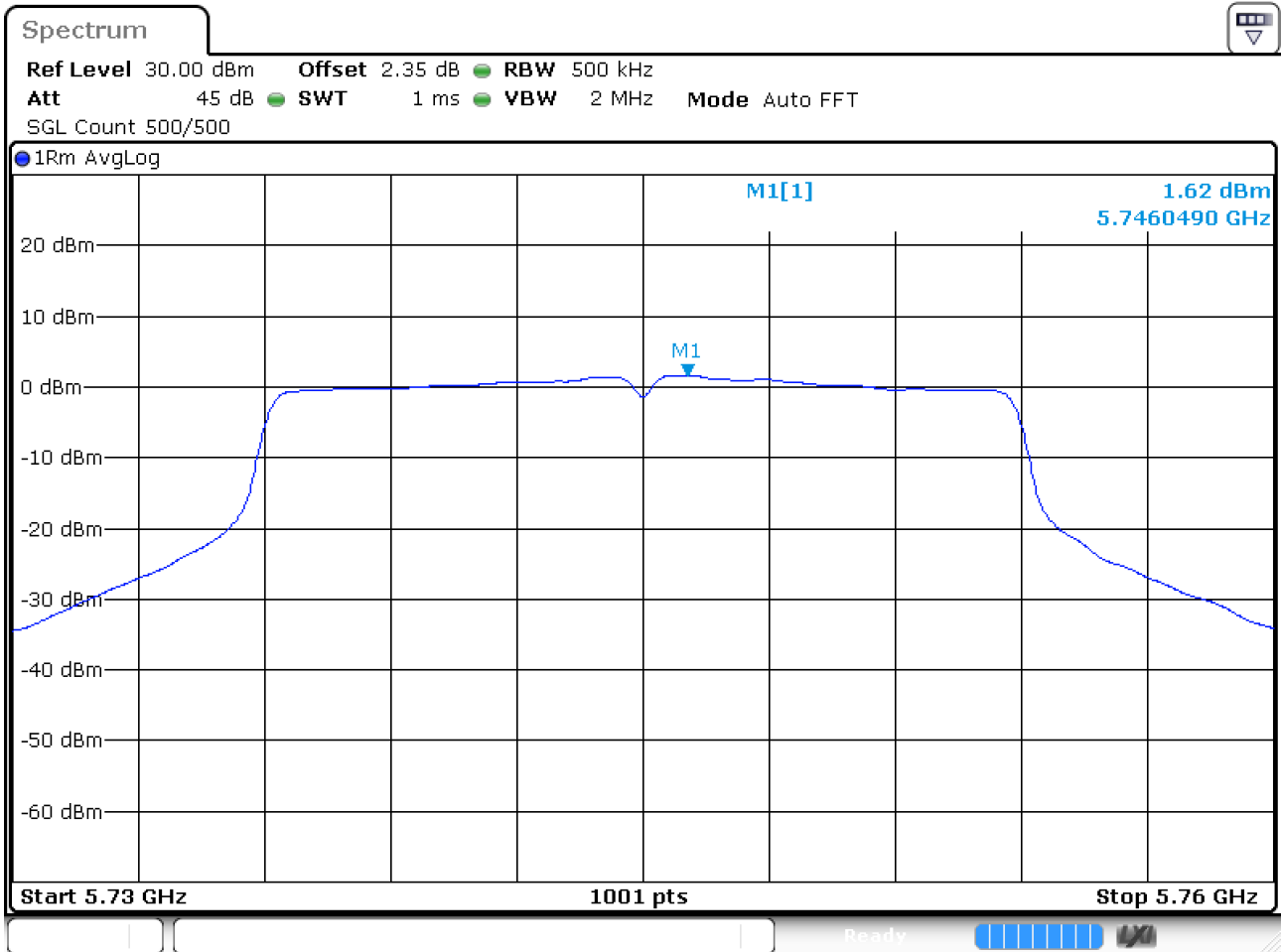


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4.8.2.47 11AC20_149 ANT 1



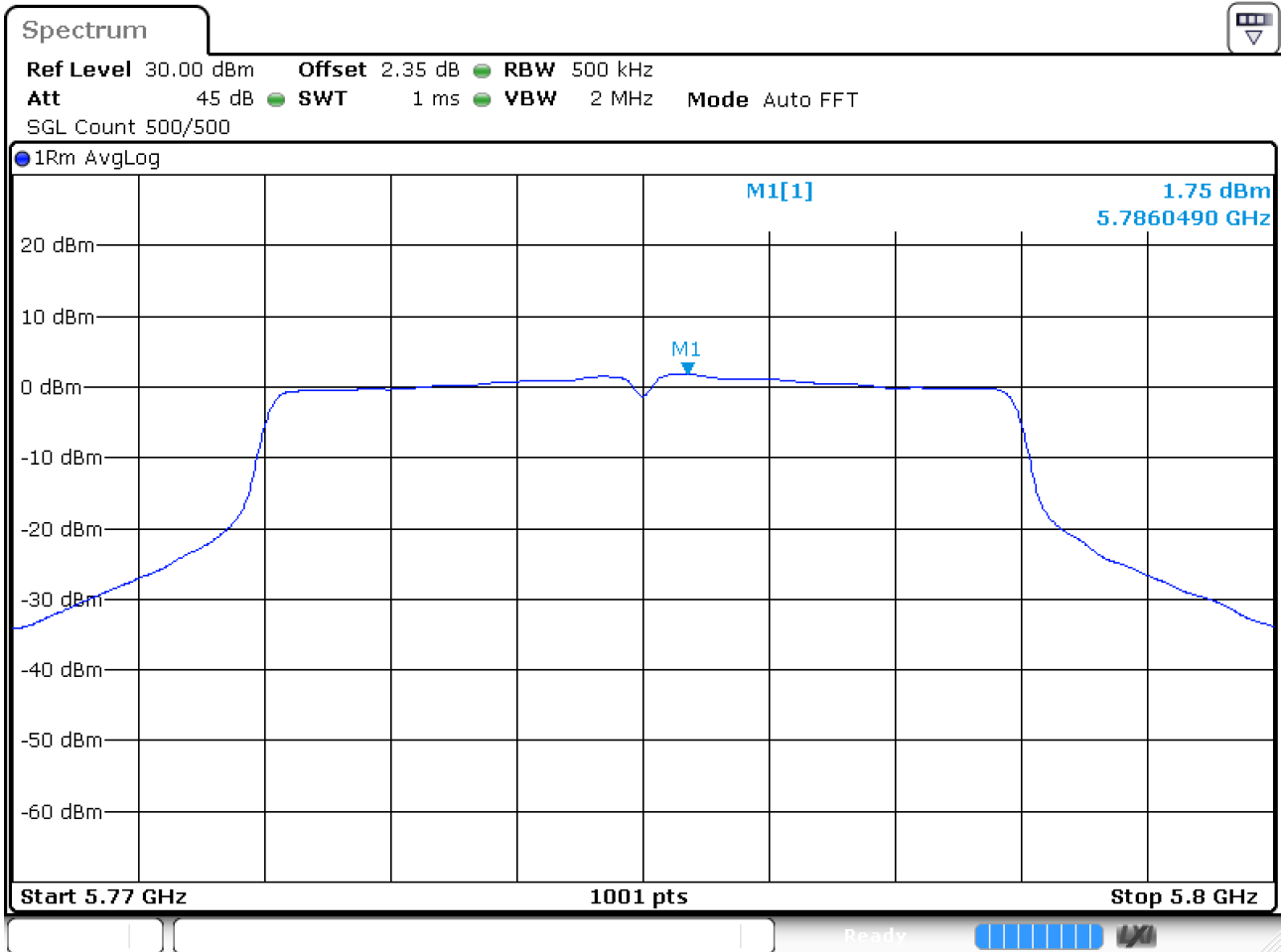
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4.8.2.48 11AC20_157 ANT 1



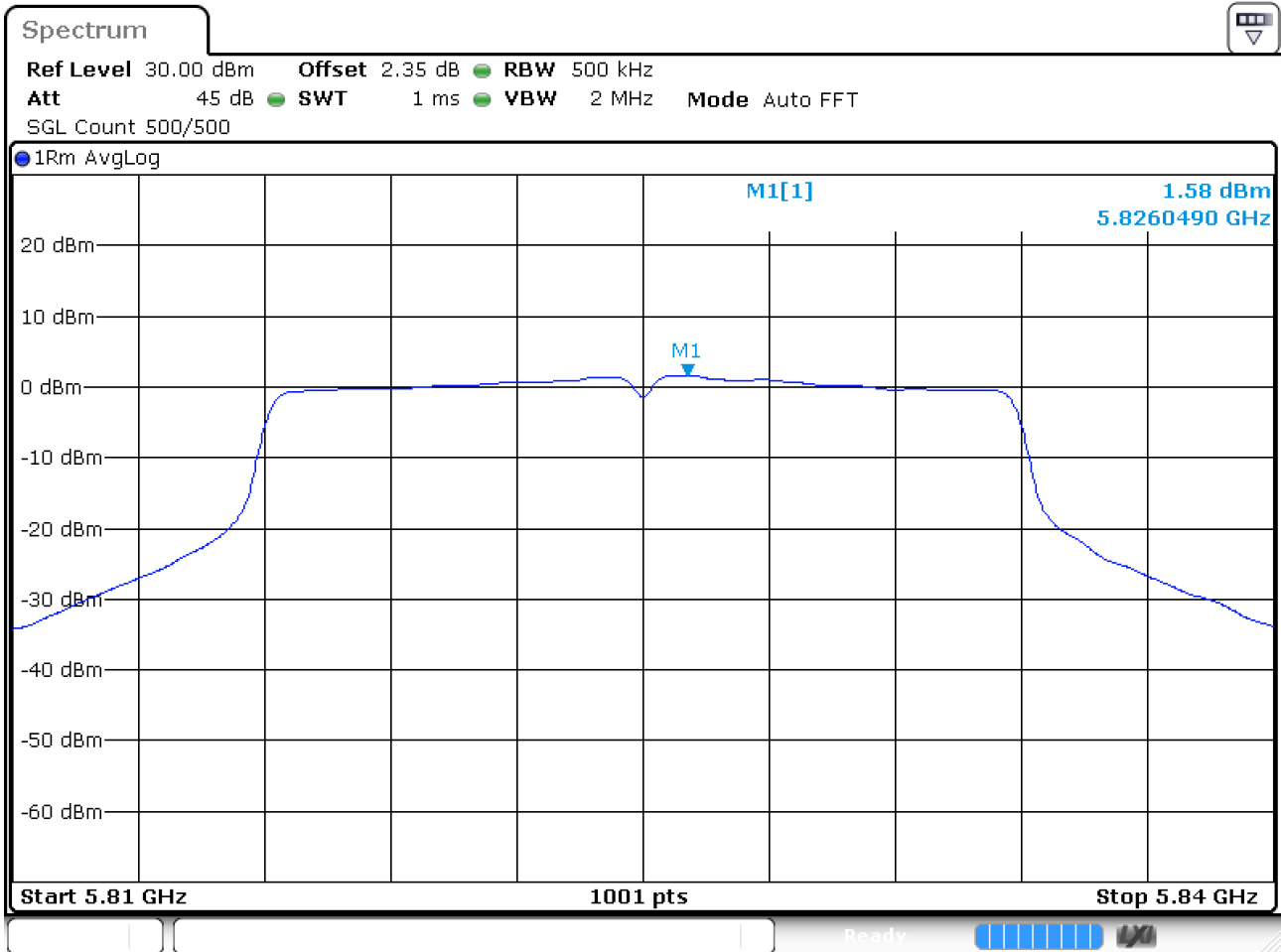
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4.8.2.49 11AC20_165 ANT 1



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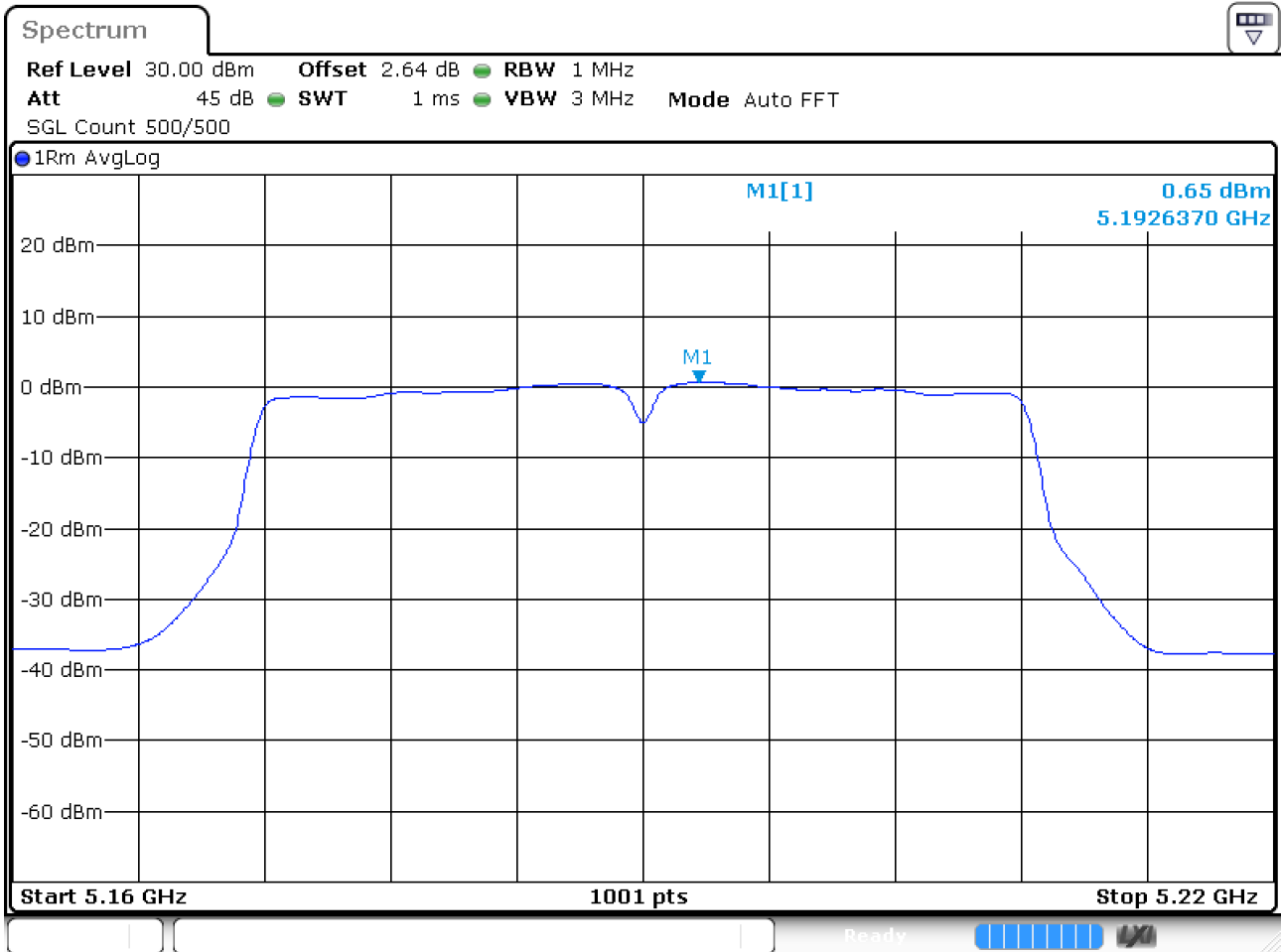
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4.8.2.50 11AC40_38 ANT 1



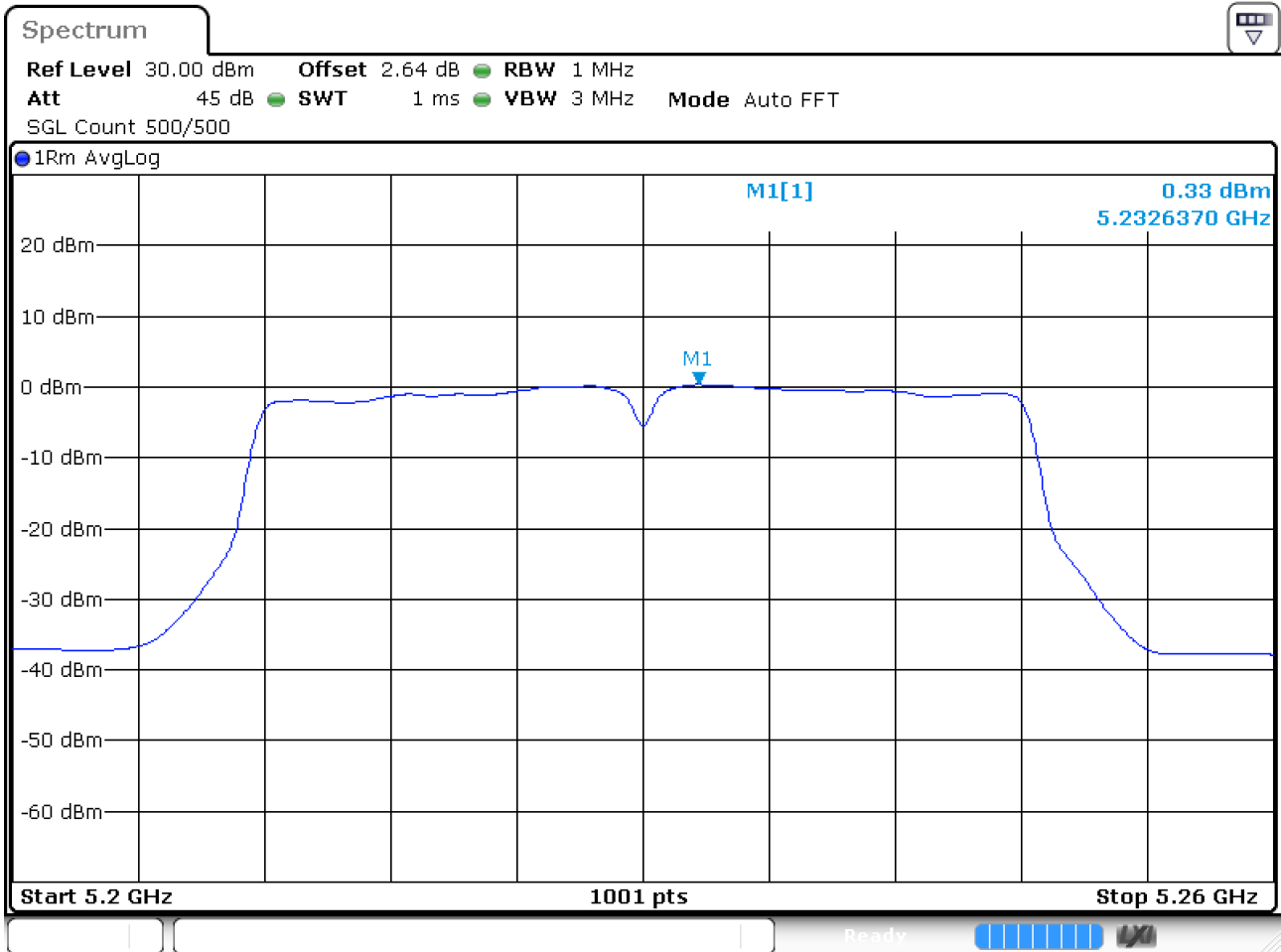
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4.8.2.51 11AC40_46 ANT 1



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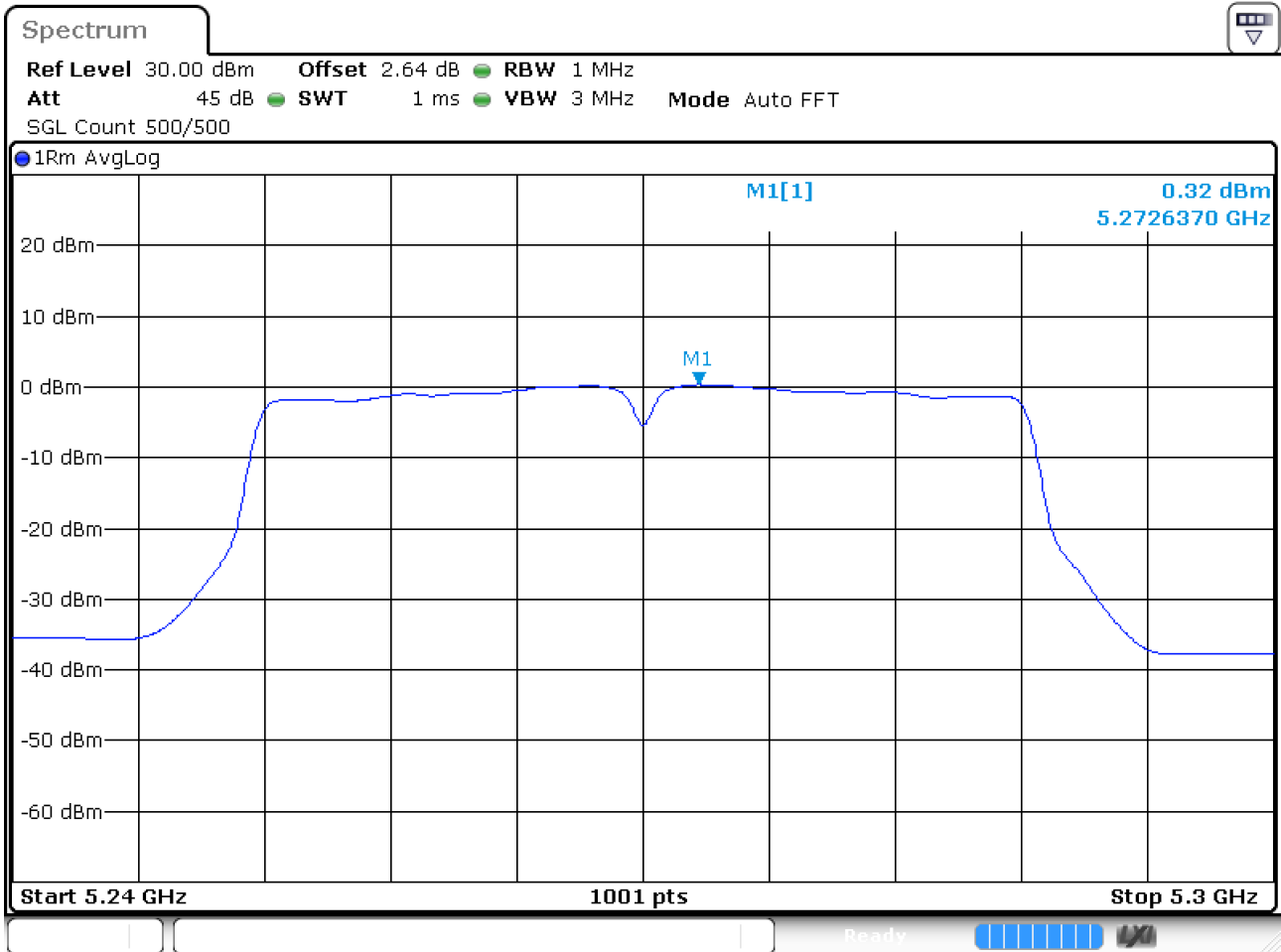
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4.8.2.52 11AC40_54 ANT 1



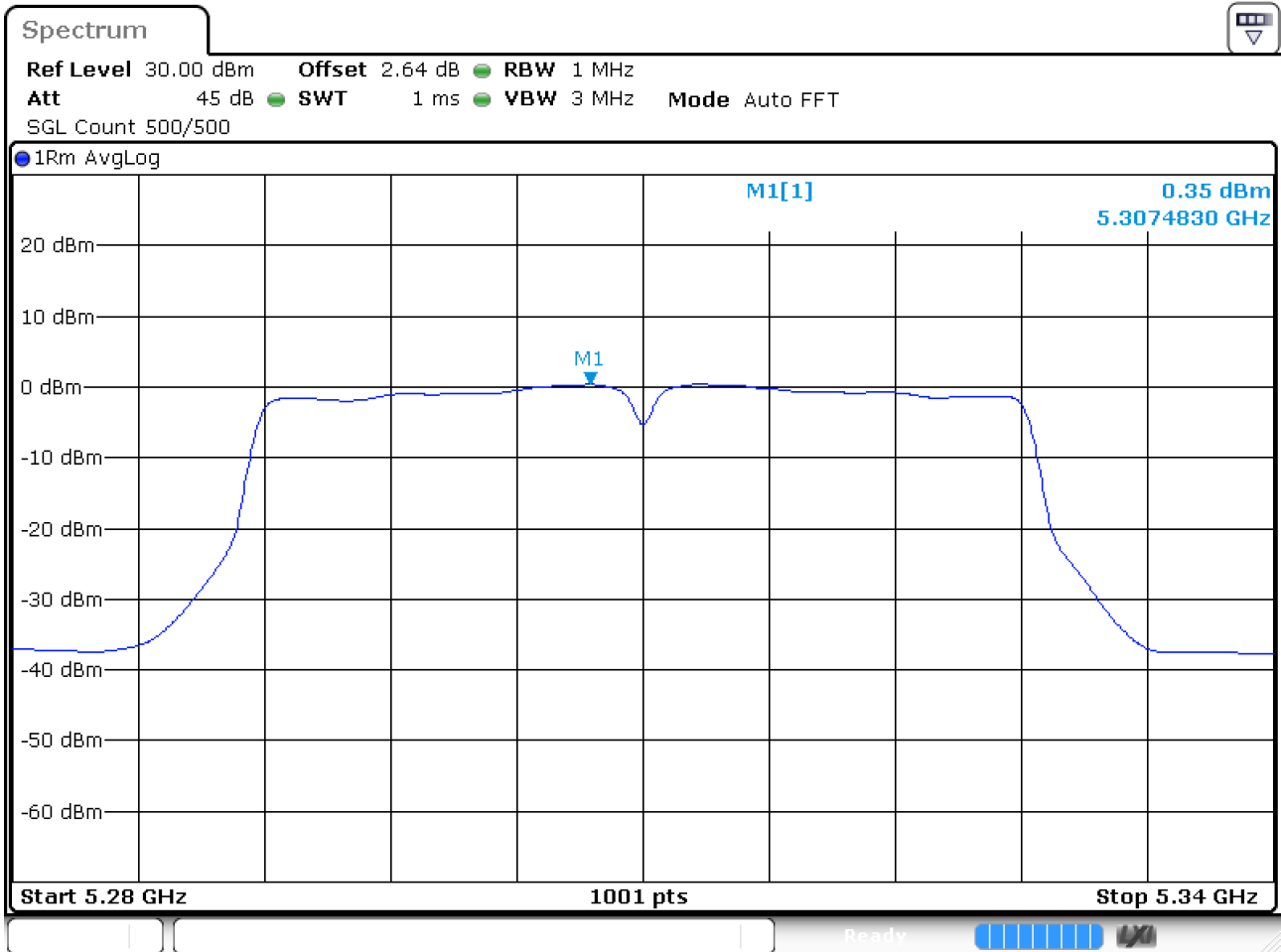
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4.8.2.53 11AC40_62 ANT 1



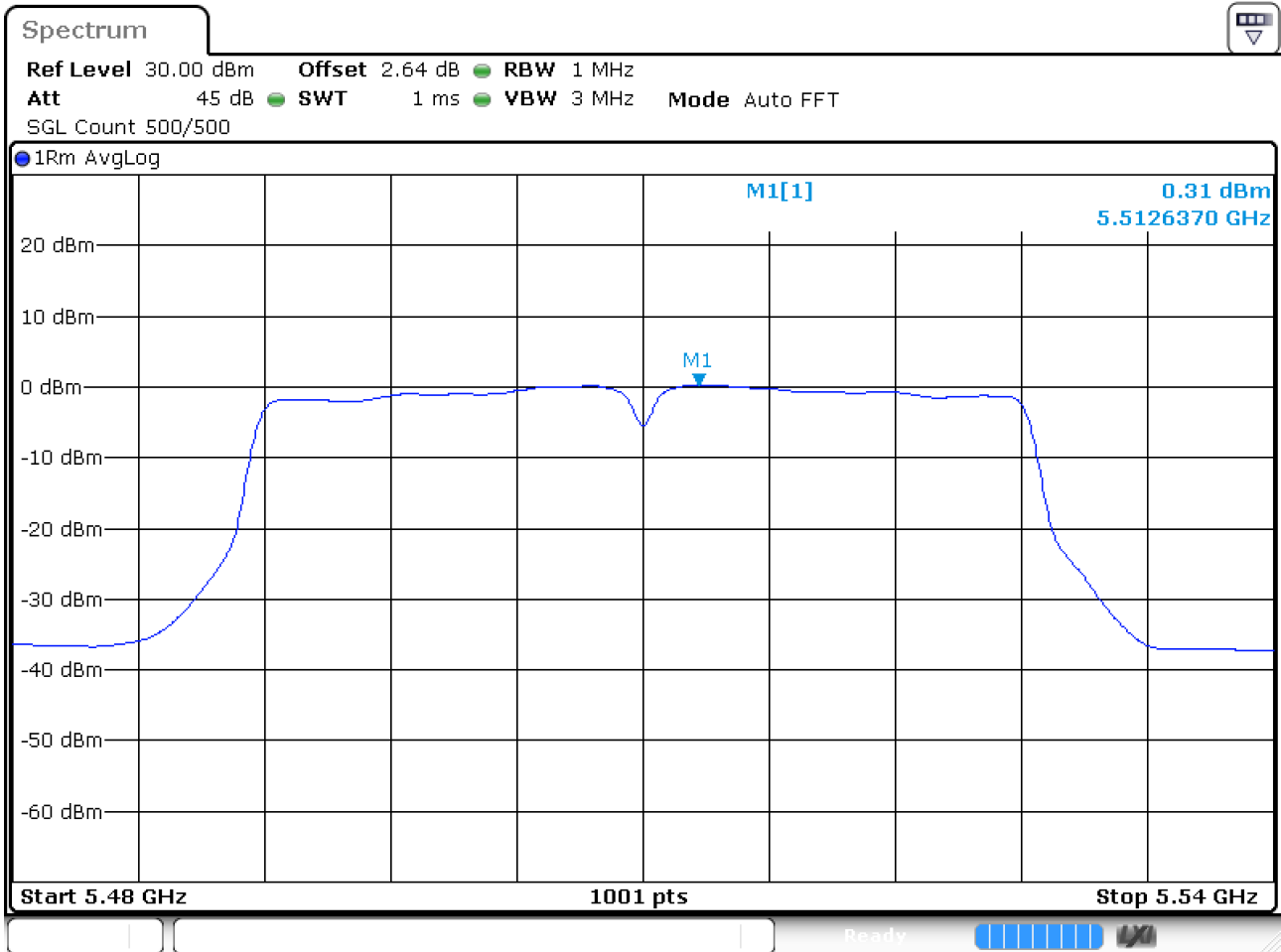
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4.8.2.54 11AC40_102 ANT 1



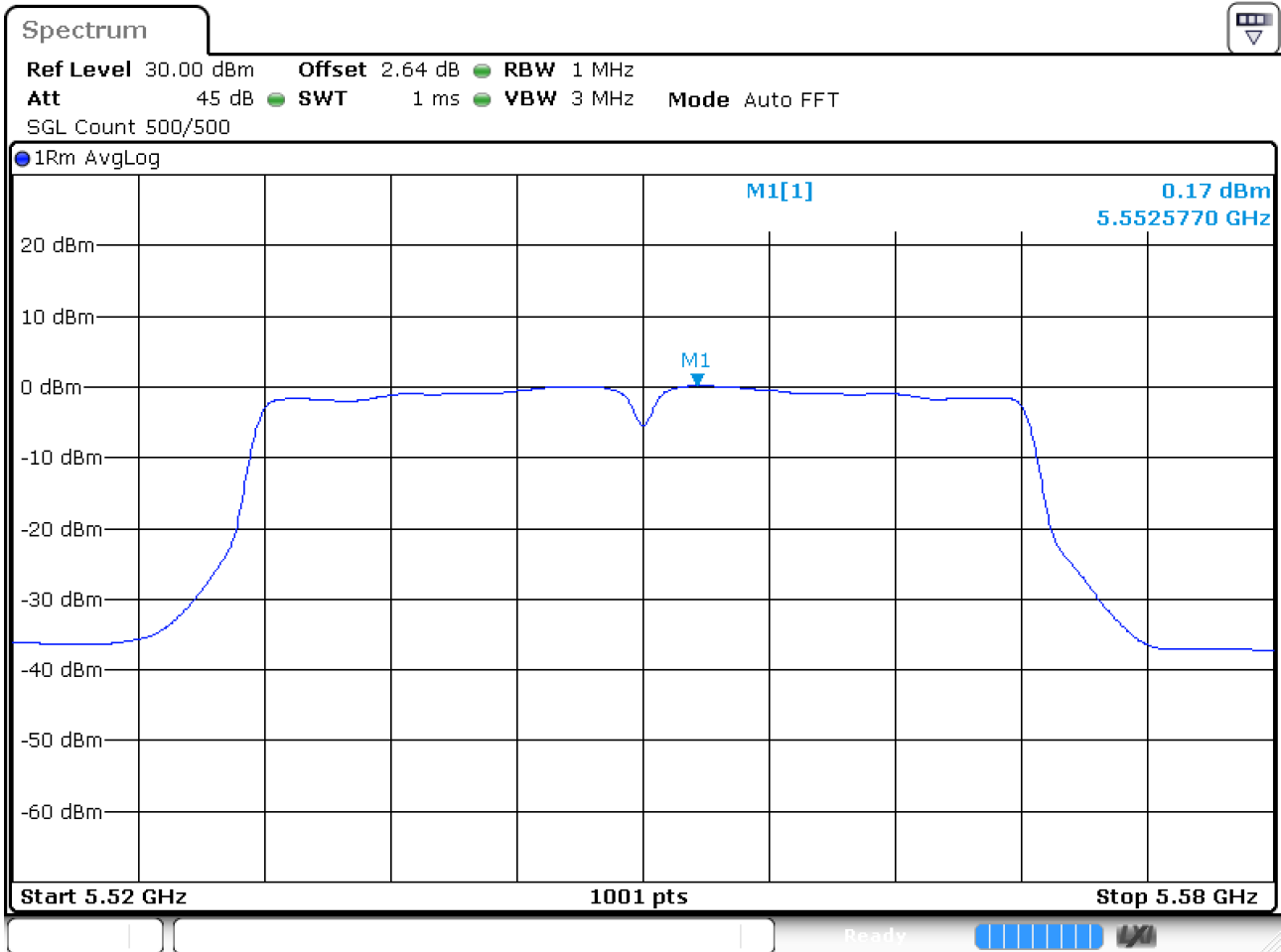
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4.8.2.55 11AC40_110 ANT 1



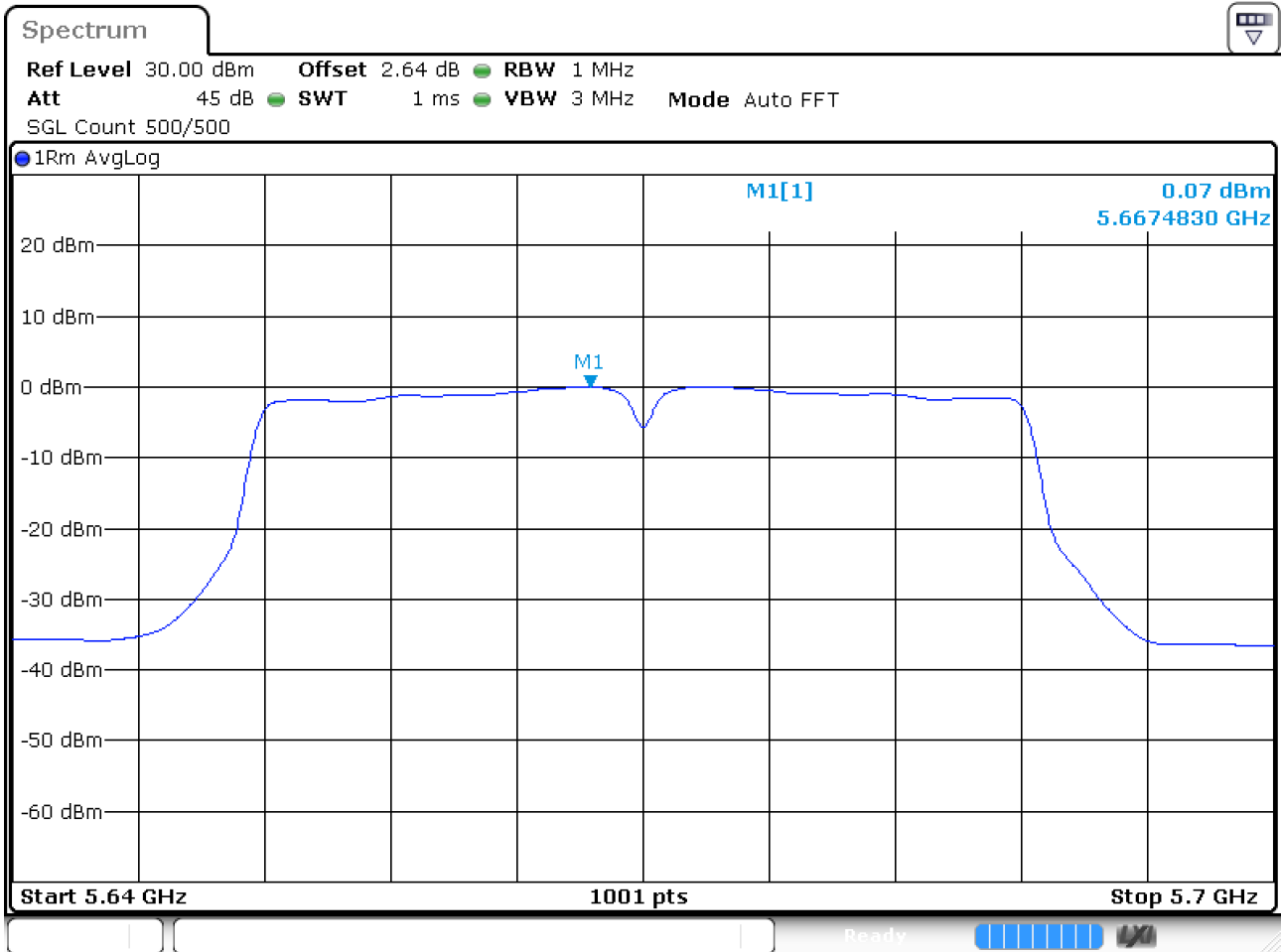
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4.8.2.56 11AC40_134 ANT 1



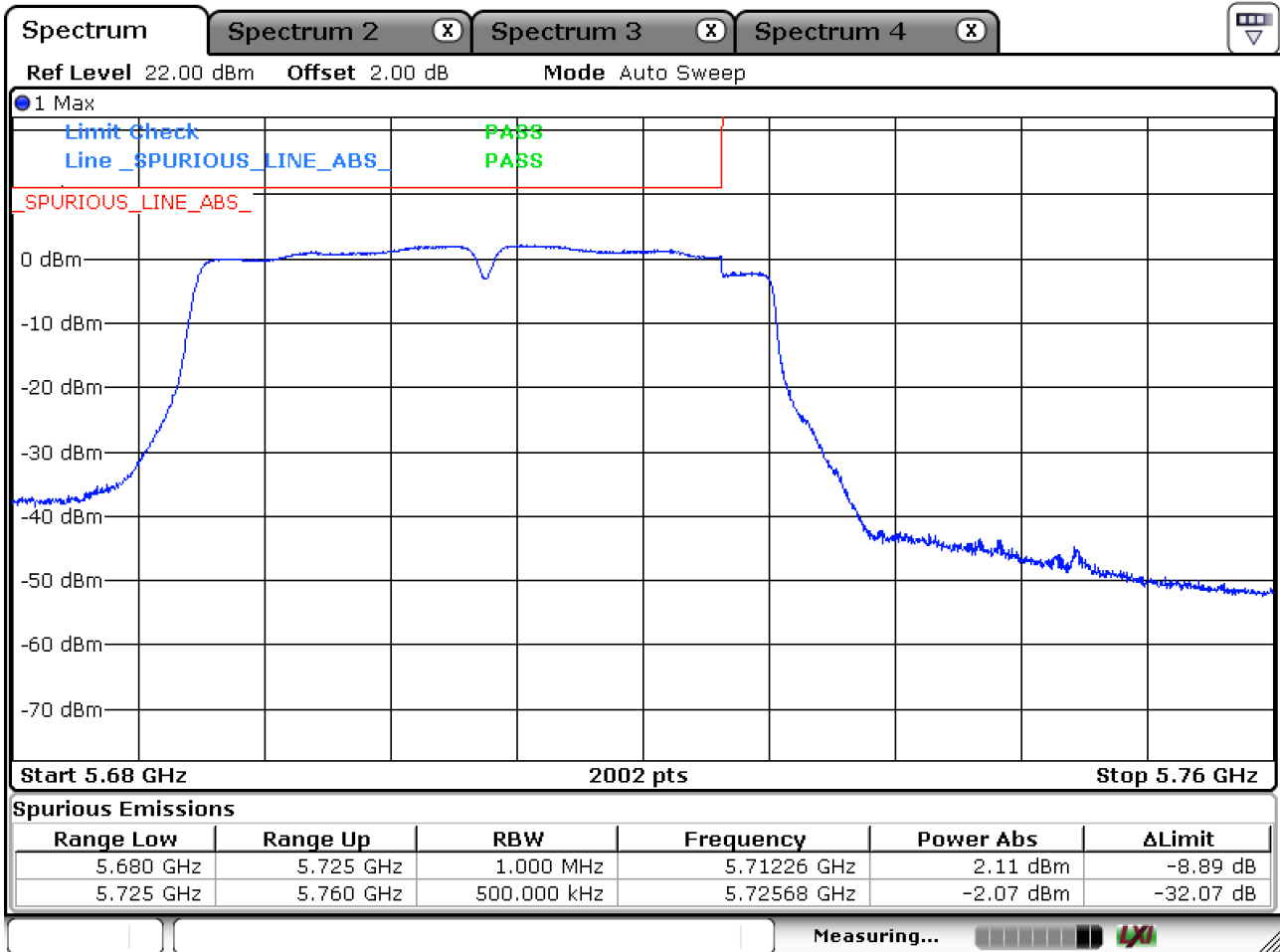
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4.8.2.57 11AC40_142 ANT 1



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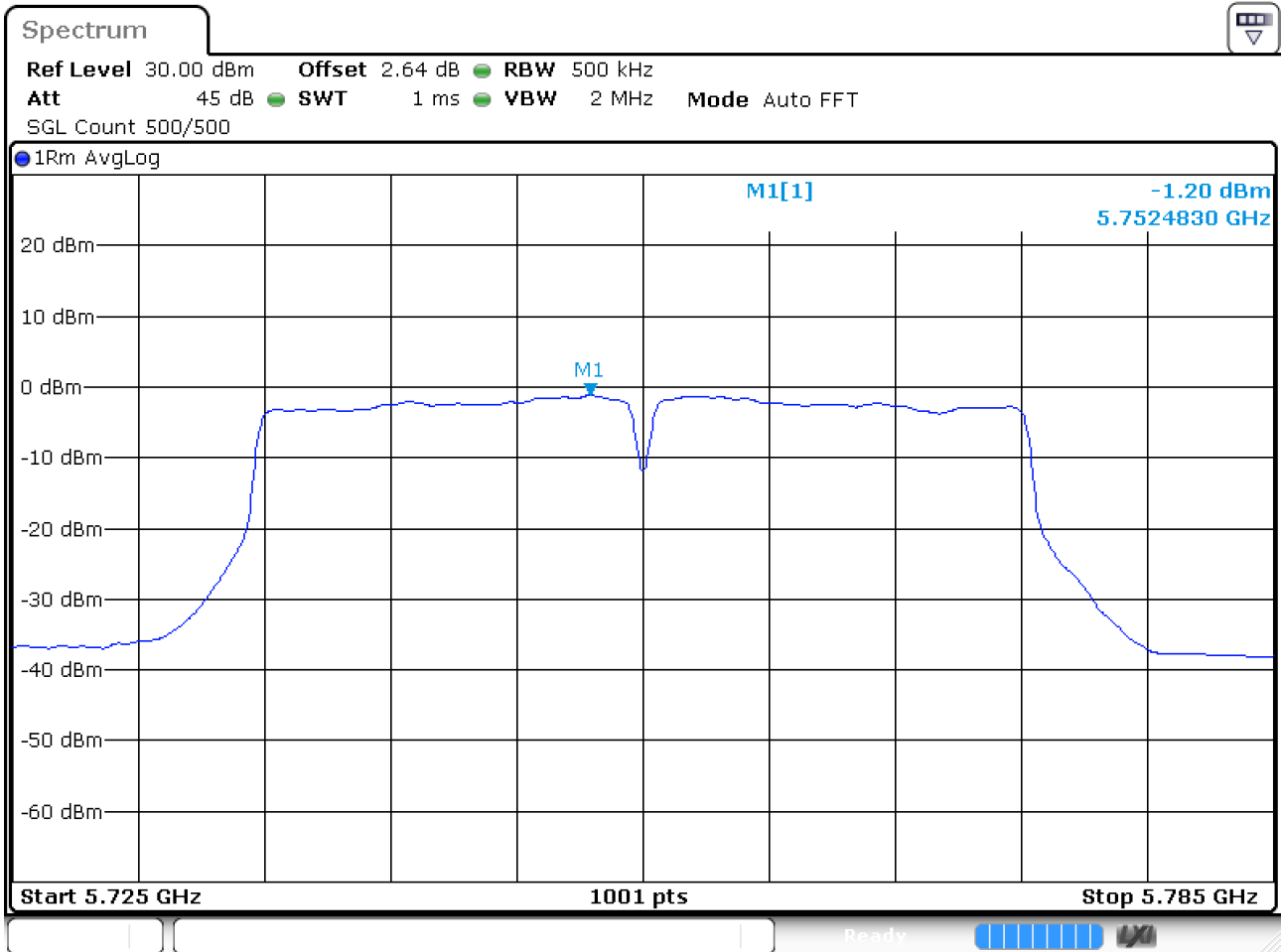


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4.8.2.58 11AC40_151 ANT 1



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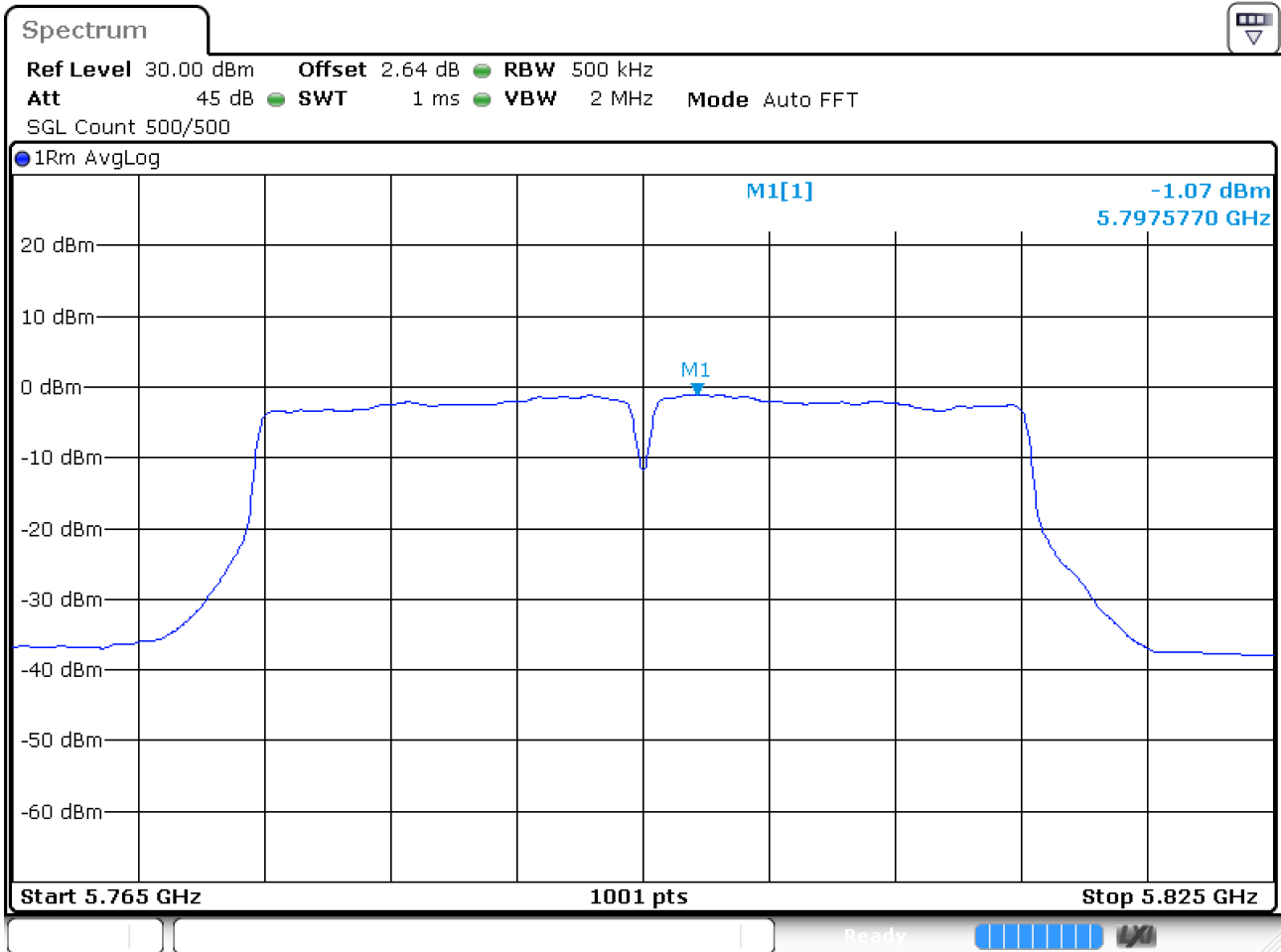
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4.8.2.59 11AC40_159 ANT 1



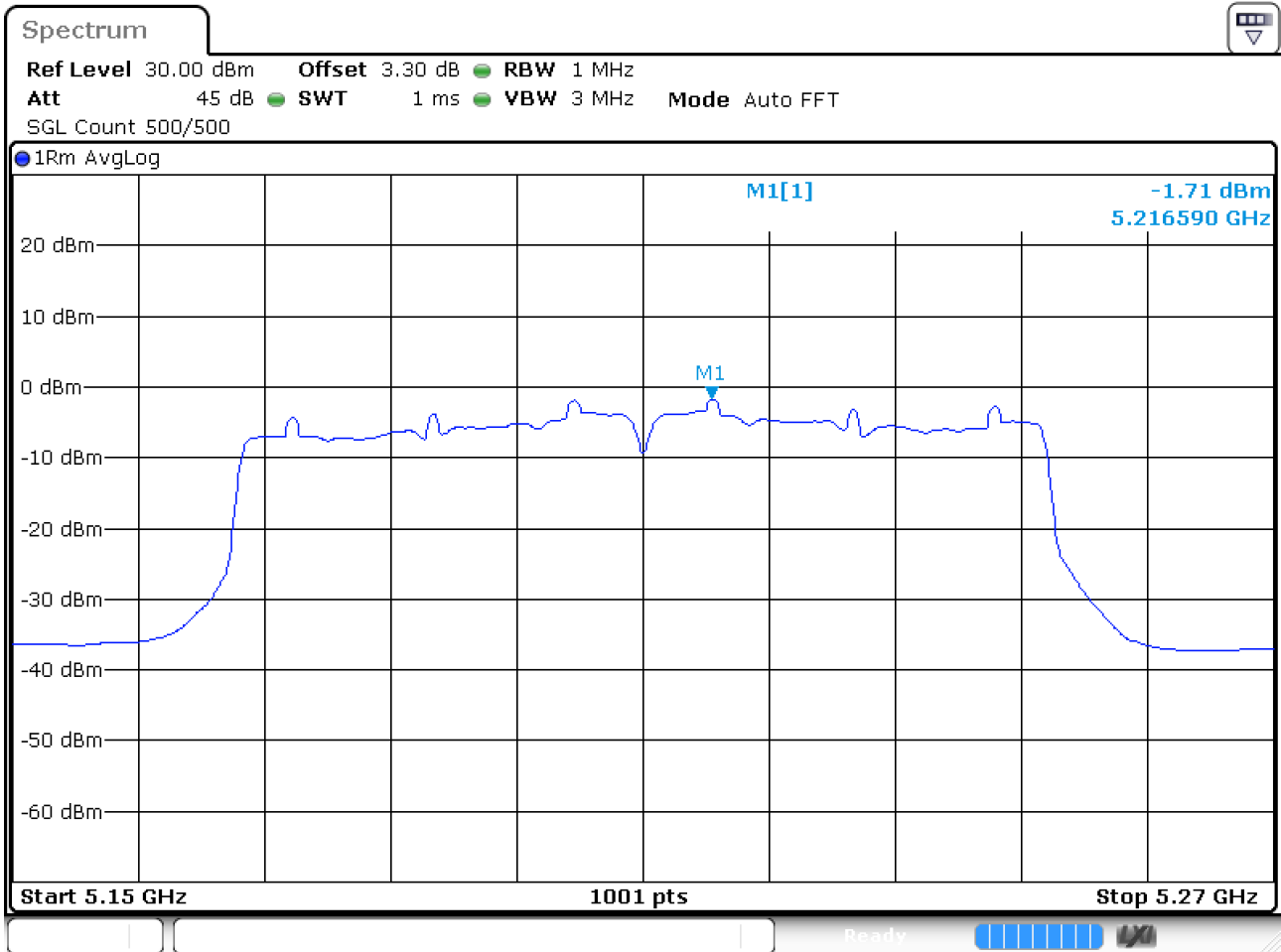
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4.8.2.60 11AC80_42 ANT 1



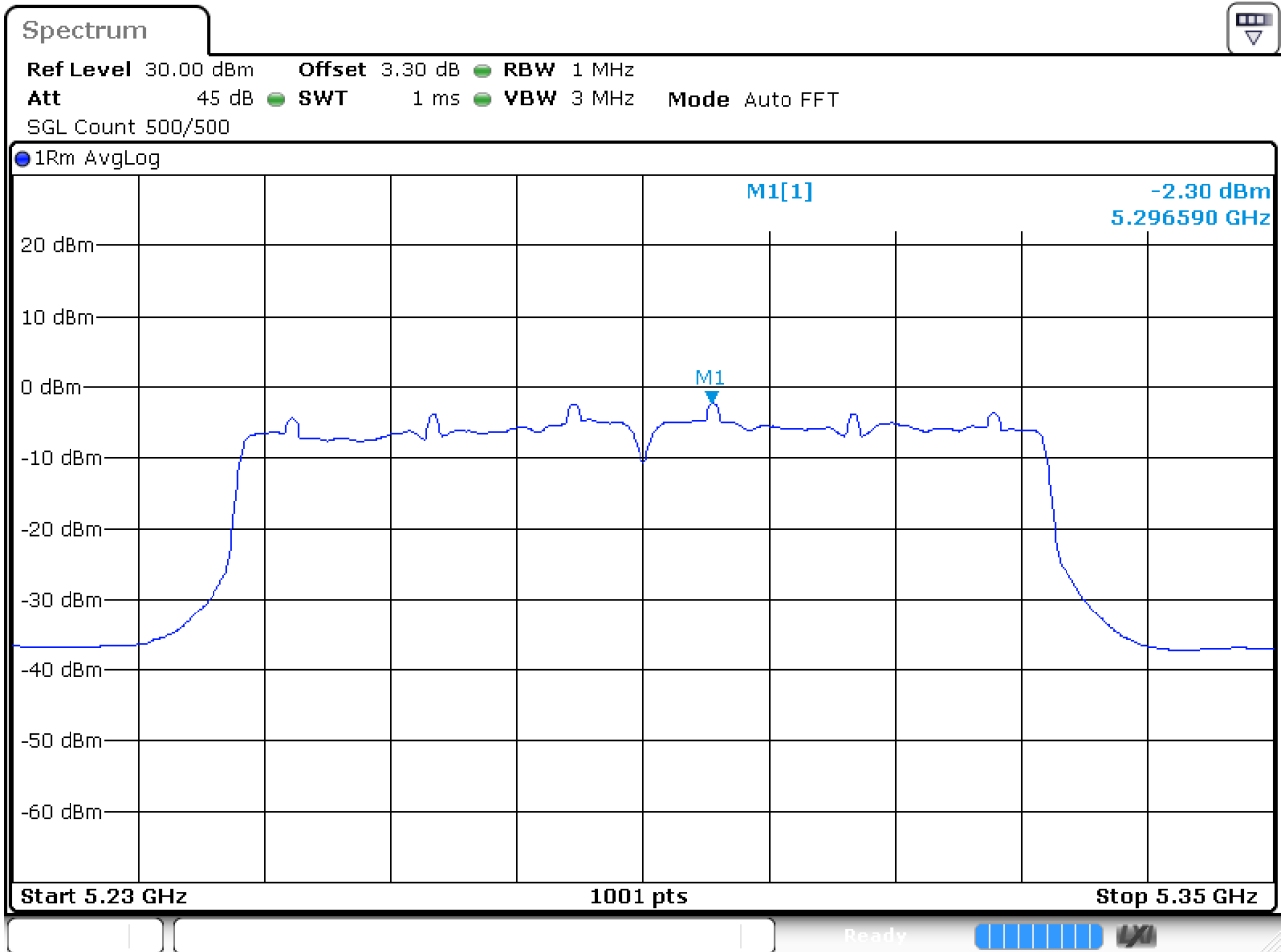
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4.8.2.61 11AC80_58 ANT 1



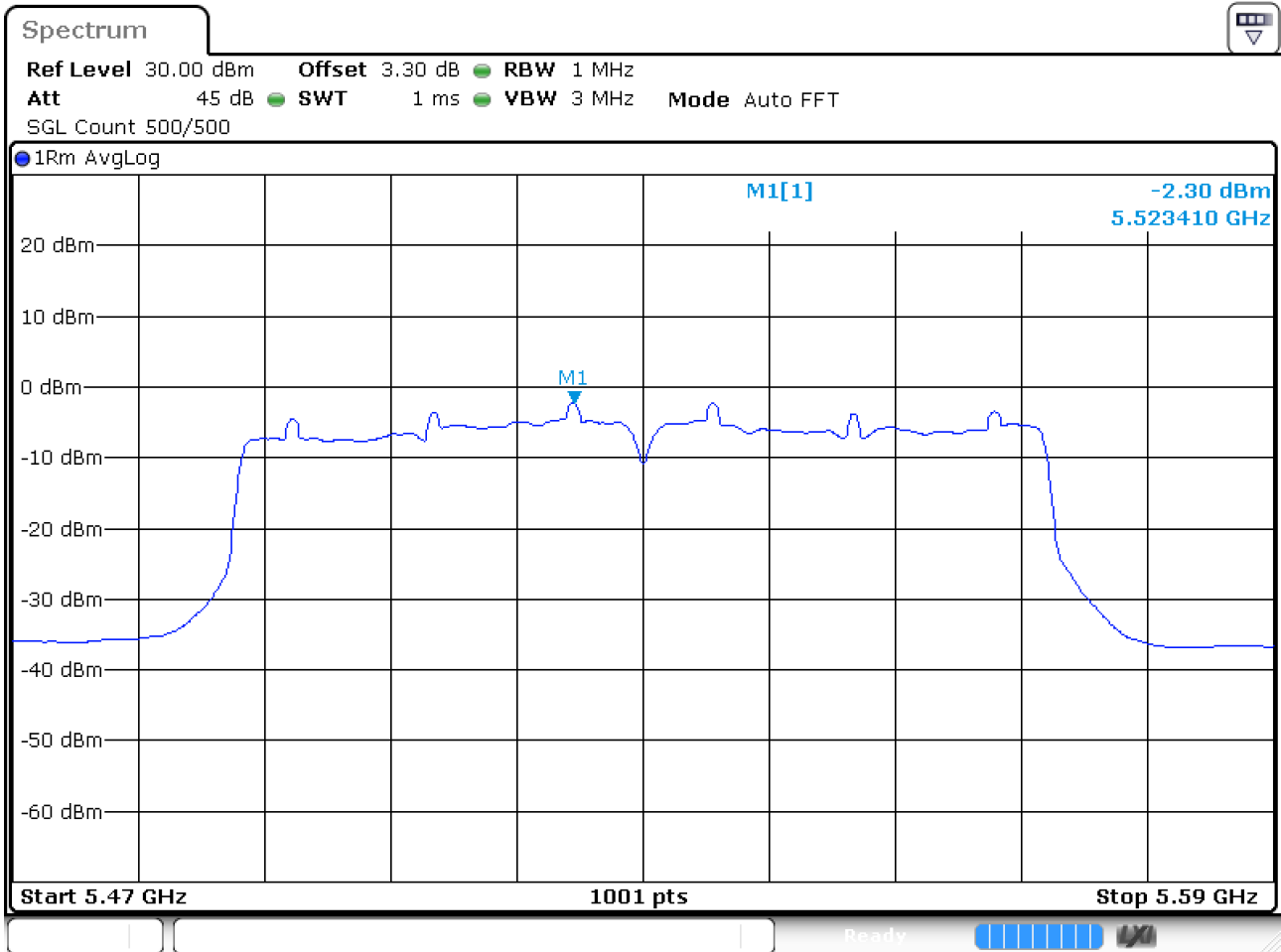
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4.8.2.62 11AC80_106 ANT 1



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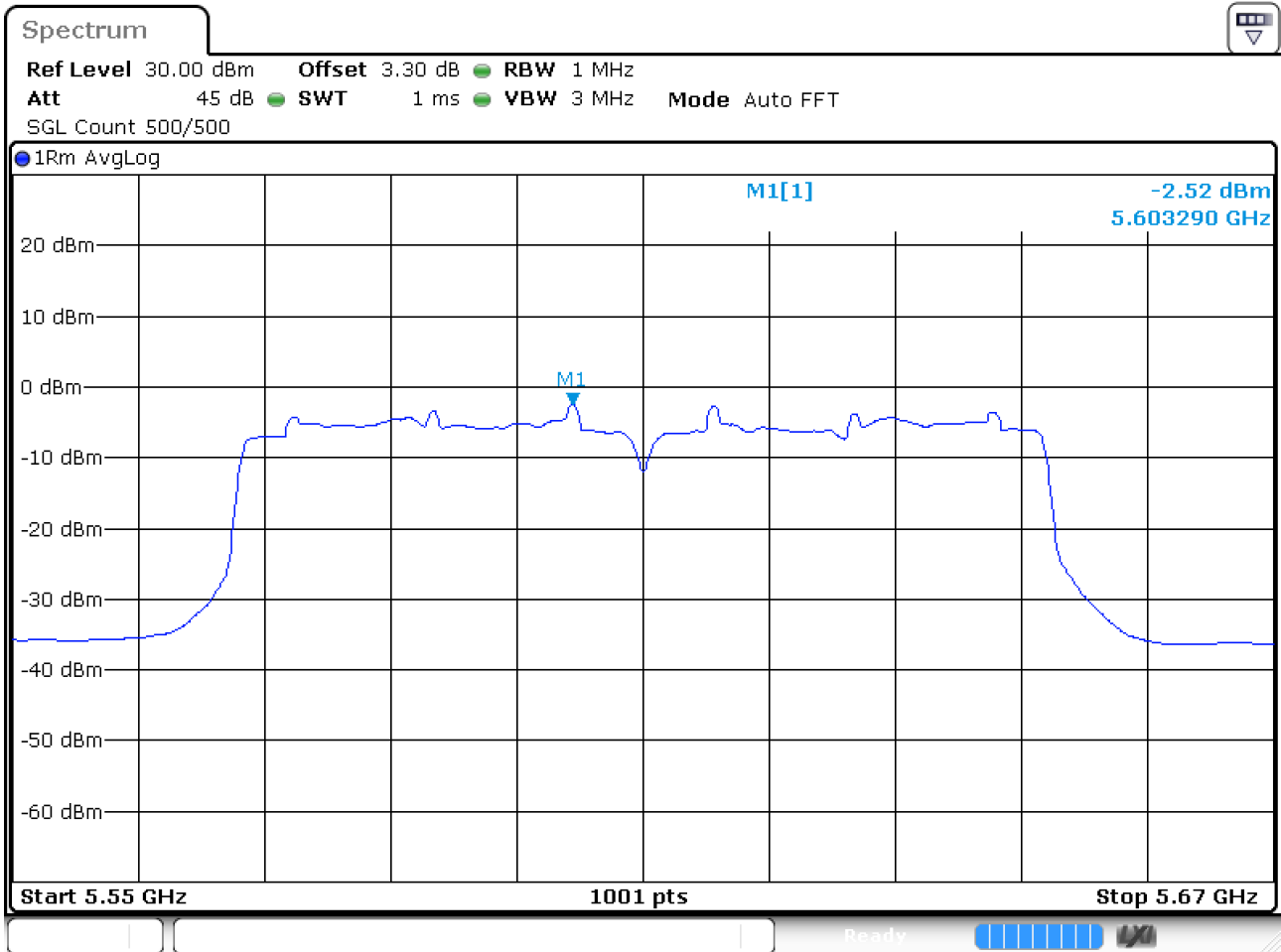


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4.8.2.63 11AC80_122 ANT 1



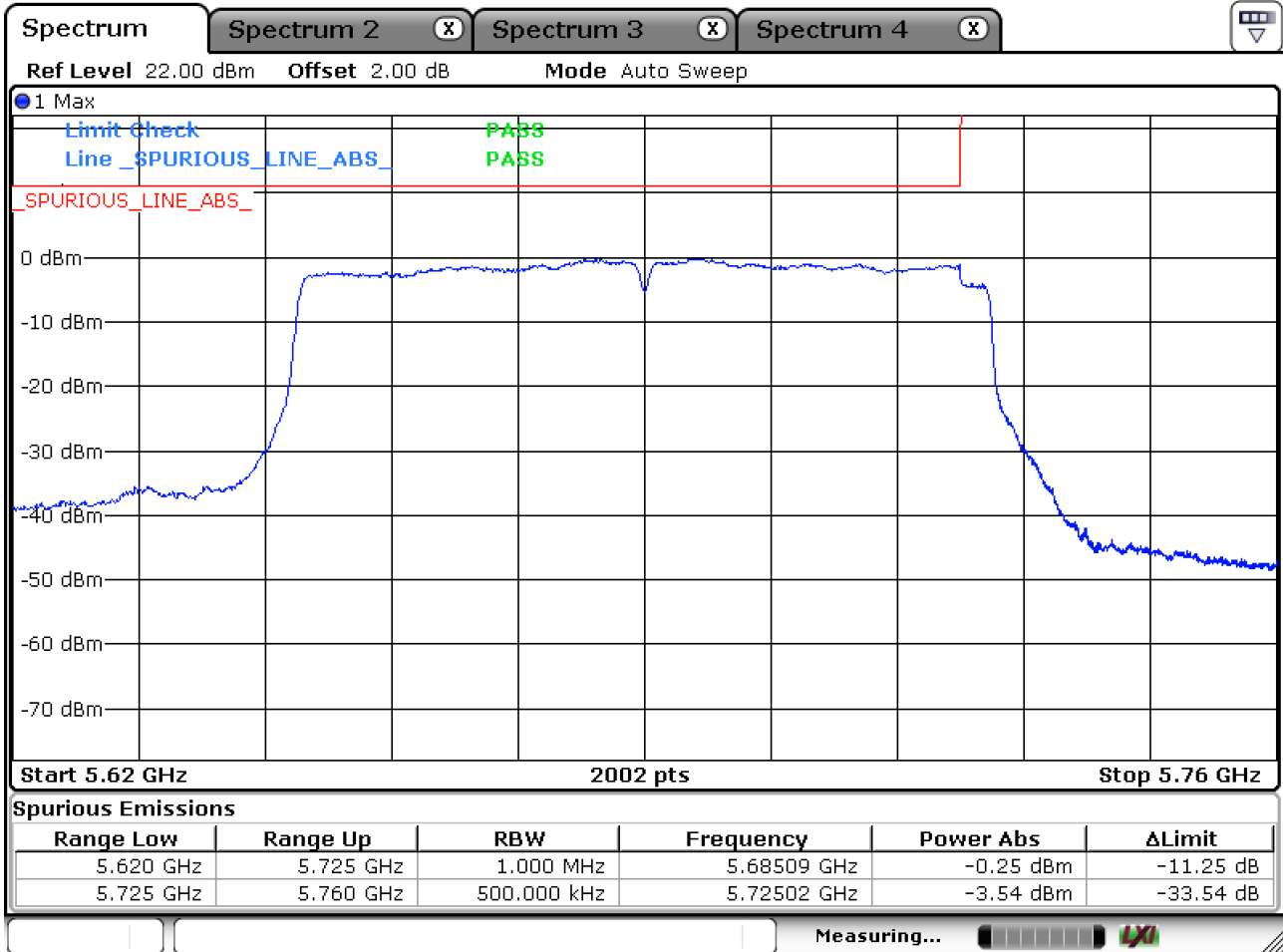
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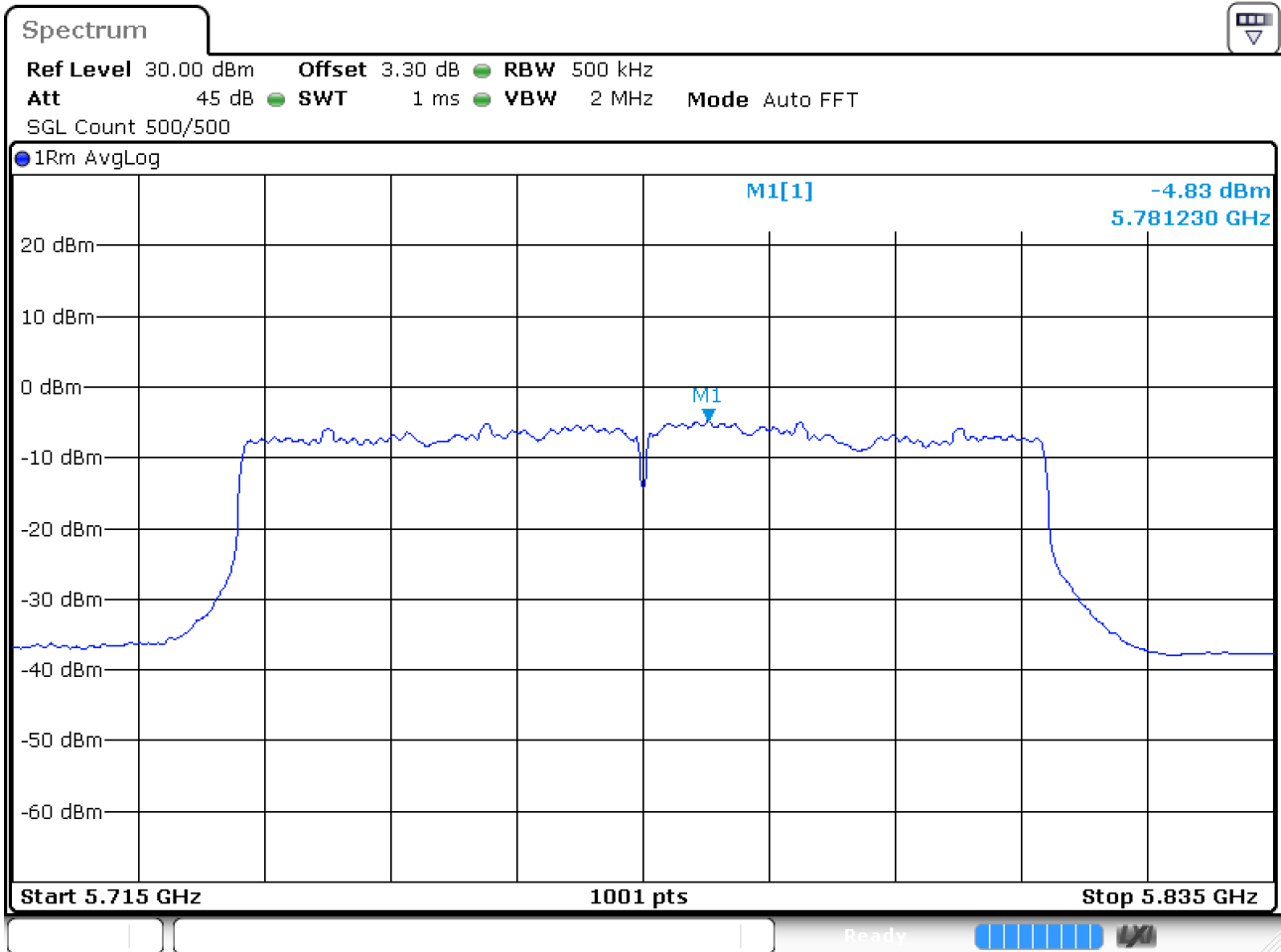
4.8.2.64 11AC80_138 ANT 1



Date: 13.OCT.2020 17:28:19



4.8.2.65 11AC80_155 ANT 1



Date: 27.AUG.2020 17:59:53



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

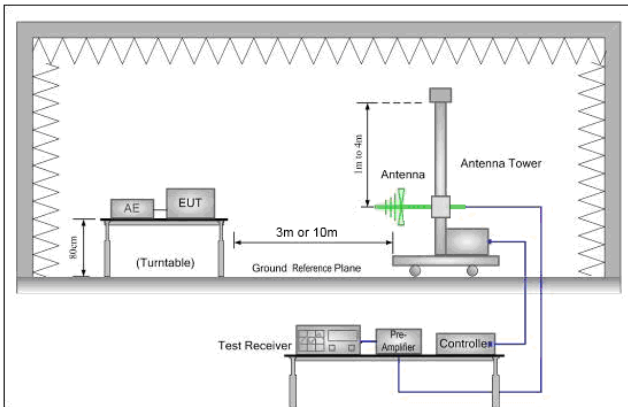


Figure 1. 30MHz to 1GHz

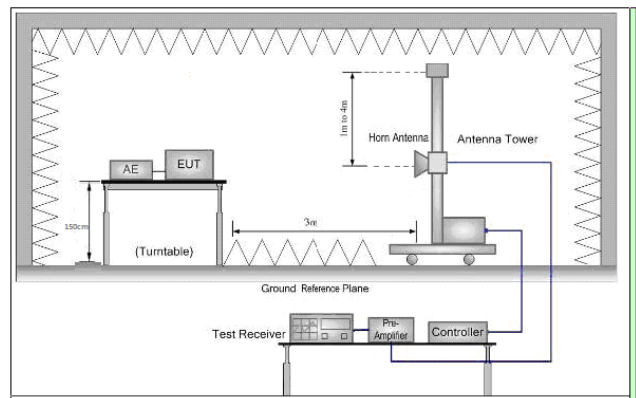


Figure 2. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> For below 1GHz test, 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. For above 1GHz test, 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. 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 and the rotatable 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. Test the EUT in the outermost channels. 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.
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	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a 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



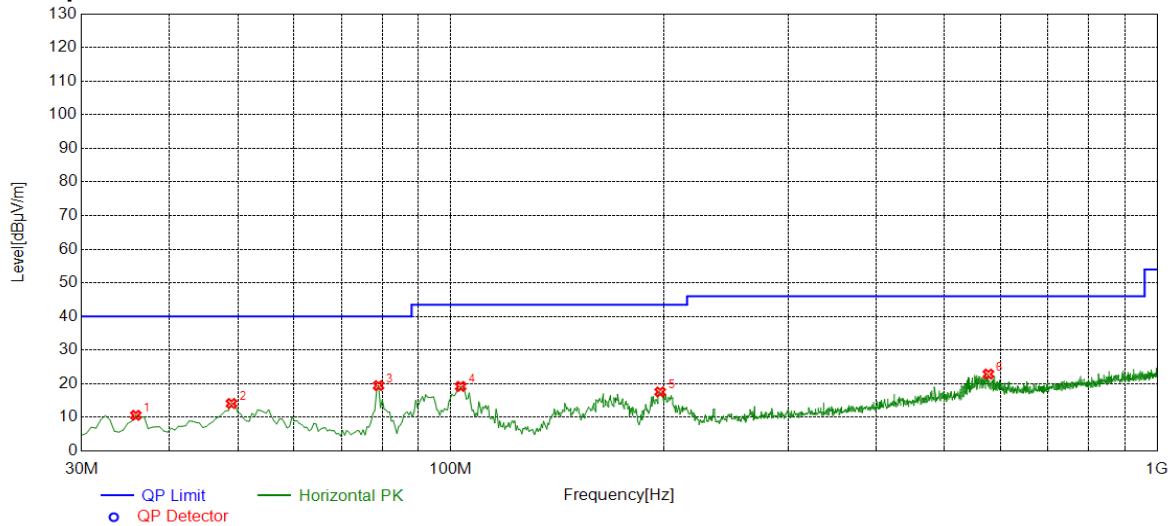
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4.9.1 Radiated Emission below 1GHz
Charge + Transmitting

4.9.1.1

Project Information			
Mode:	5G WIFI	State:	
Environment:	Temp: 25°C; Humi:60%	Engineer:	

Test Graph



Suspected List

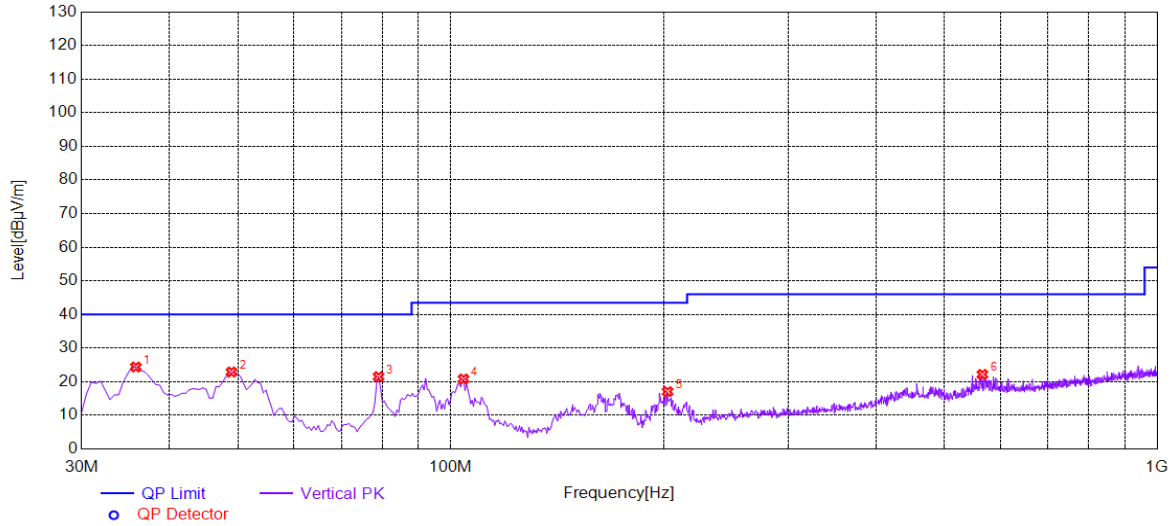
Suspected List								
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1	35.8229	10.63	-32.50	40.00	29.37	150	258	Horizontal
2	48.9245	14.13	-30.19	40.00	25.87	150	242	Horizontal
3	79.0095	19.46	-35.71	40.00	20.54	150	283	Horizontal
4	103.271	19.23	-31.68	43.50	24.27	150	258	Horizontal
5	197.893	17.57	-31.04	43.50	25.93	150	202	Horizontal
6	576.868	22.88	-20.71	46.00	23.12	150	29	Horizontal

Final Data List



Project Information			
Mode:	5G WIFI	State:	
Environment:	Temp: 25°C; Humi:60%	Engineer:	

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8229	24.39	-32.50	40.00	15.61	150	358	Vertical
2	48.9245	22.90	-30.19	40.00	17.10	150	322	Vertical
3	79.0095	21.52	-35.71	40.00	18.48	150	328	Vertical
4	104.242	20.83	-31.68	43.50	22.67	150	59	Vertical
5	202.746	17.07	-30.76	43.50	26.43	150	307	Vertical
6	565.707	22.19	-21.02	46.00	23.81	150	266	Vertical

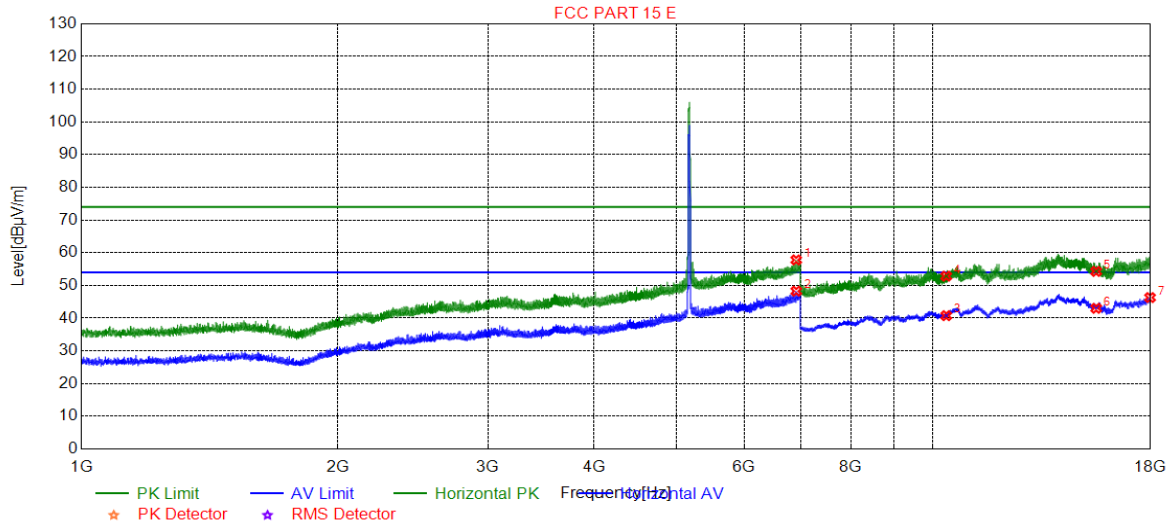
Final Data List



4.9.2 Transmitter emission above 1GHz

4.9.2.1 802.11A_Channel 36

Test Graph



Suspected List

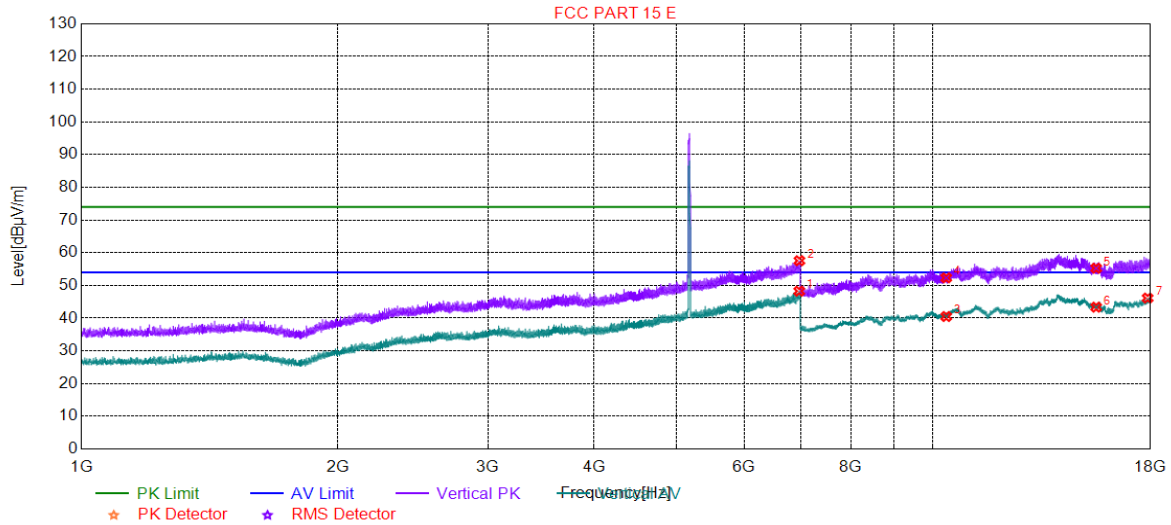
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6905.49	57.81	20.86	74.00	16.19	150	321	Horizontal
2	6907.29	48.28	20.87	54.00	5.72	150	18	Horizontal
3	10360.0	40.78	-3.63	54.00	13.22	150	0	Horizontal
4	10360.0	52.86	-3.63	74.00	21.14	150	242	Horizontal
5	15540.0	54.31	0.46	74.00	19.69	150	292	Horizontal
6	15540.0	43.02	0.46	54.00	10.98	150	242	Horizontal
7	17975.2	46.31	-1.29	54.00	7.69	150	41	Horizontal

Final Data List



4.9.2.2 802.11A_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6962.19	48.27	21.26	54.00	5.73	150	342	Vertical
2	6965.79	57.58	21.26	74.00	16.42	150	90	Vertical
3	10360.0	40.52	-3.63	54.00	13.48	150	360	Vertical
4	10360.0	52.33	-3.63	74.00	21.67	150	69	Vertical
5	15540.0	55.28	0.46	74.00	18.72	150	360	Vertical
6	15540.0	43.38	0.46	54.00	10.62	150	360	Vertical
7	17858.0	46.15	-1.86	54.00	7.85	150	18	Vertical

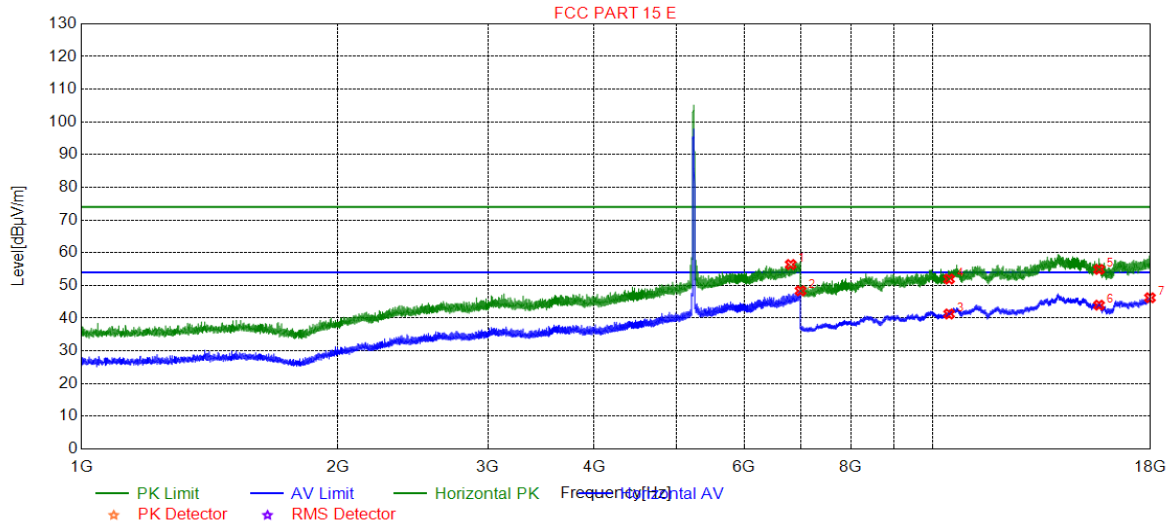
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4.9.2.3 802.11A_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6804.09	56.42	20.44	74.00	17.58	150	360	Horizontal
2	6987.09	48.37	21.27	54.00	5.63	150	120	Horizontal
3	10440.0	41.30	-3.24	54.00	12.70	150	0	Horizontal
4	10440.0	51.97	-3.24	74.00	22.03	150	342	Horizontal
5	15660.0	54.91	0.43	74.00	19.09	150	242	Horizontal
6	15660.0	43.98	0.43	54.00	10.02	150	342	Horizontal
7	17970.2	46.25	-1.29	54.00	7.75	150	91	Horizontal

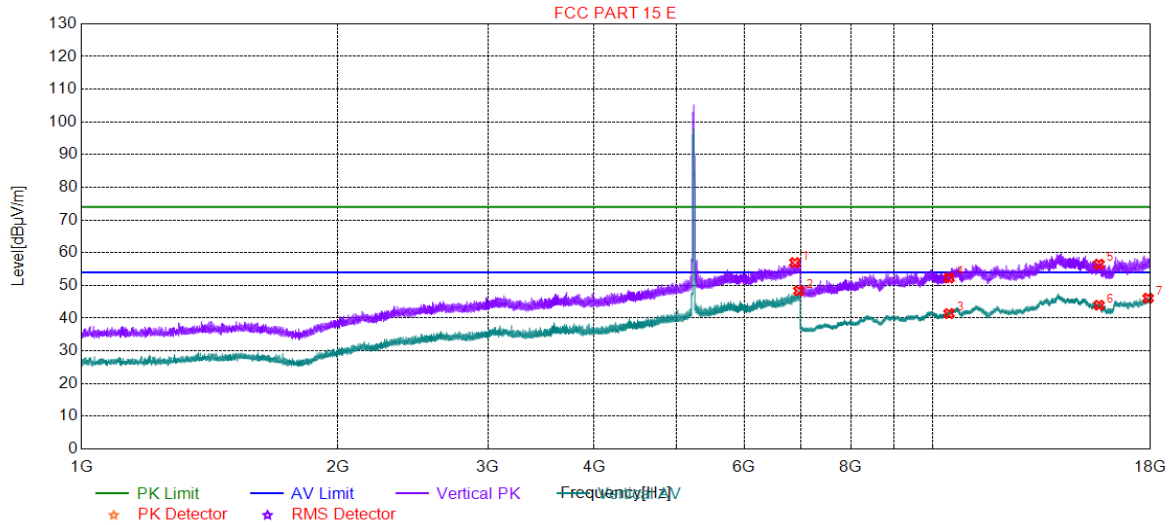
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4.9.2.4 802.11A_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6880.89	56.99	20.84	74.00	17.01	150	182	Vertical
2	6956.79	48.34	21.26	54.00	5.66	150	283	Vertical
3	10440.0	41.42	-3.24	54.00	12.58	150	360	Vertical
4	10440.0	52.32	-3.24	74.00	21.68	150	18	Vertical
5	15660.0	56.50	0.43	74.00	17.50	150	218	Vertical
6	15660.0	43.97	0.43	54.00	10.03	150	319	Vertical
7	17882.8	46.12	-1.54	54.00	7.88	150	119	Vertical

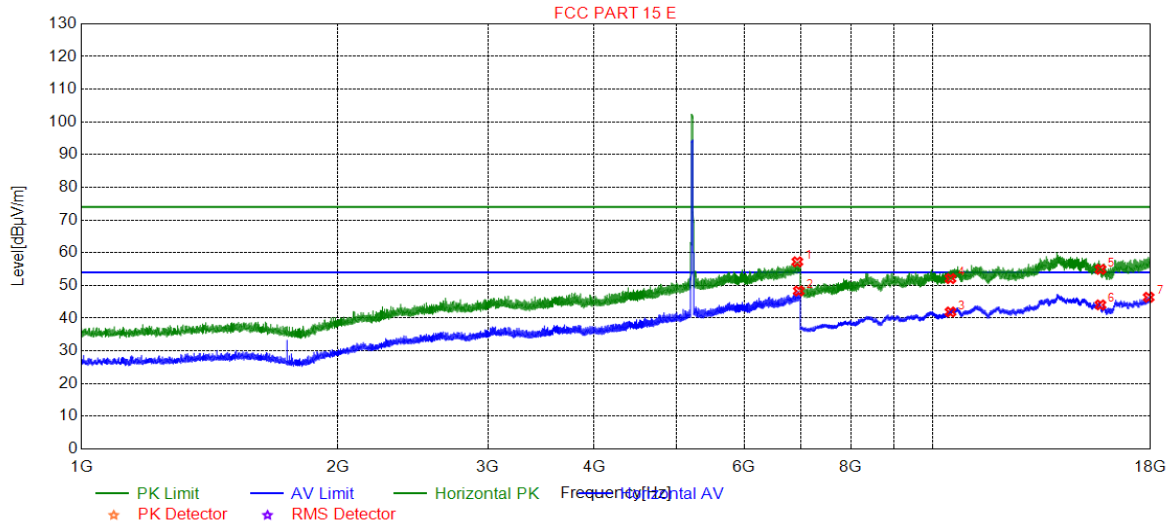
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4.9.2.5 802.11A_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6927.09	57.24	21.05	74.00	16.76	150	18	Horizontal
2	6953.19	48.32	21.26	54.00	5.68	150	18	Horizontal
3	10480.0	41.90	-2.94	54.00	12.10	150	191	Horizontal
4	10480.0	52.11	-2.94	74.00	21.89	150	291	Horizontal
5	15720.0	54.93	0.29	74.00	19.07	150	291	Horizontal
6	15720.0	44.06	0.29	54.00	9.94	150	140	Horizontal
7	17909.7	46.40	-1.31	54.00	7.60	150	140	Horizontal

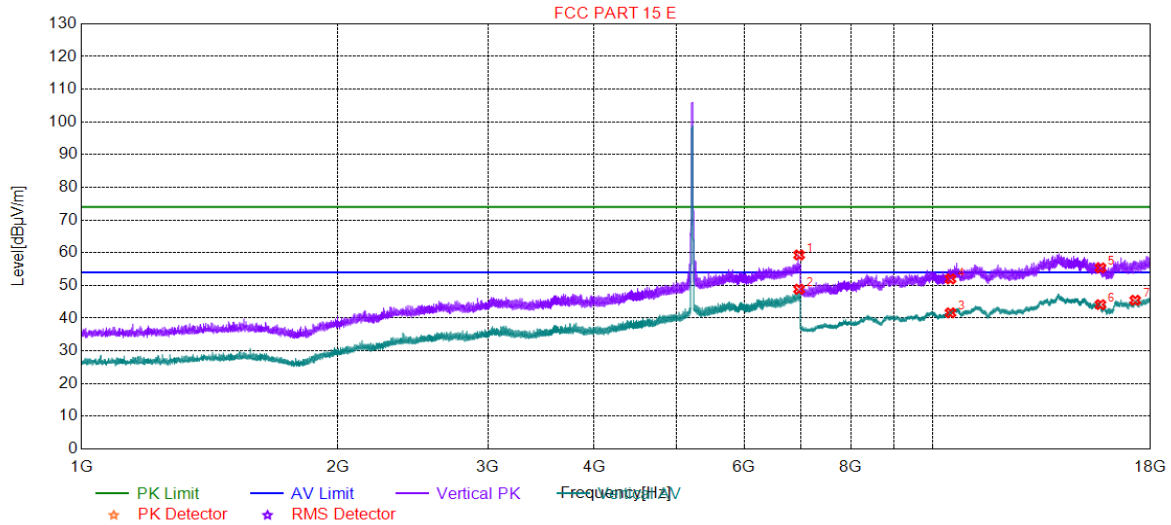
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4.9.2.6 802.11A_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6959.49	59.33	21.26	74.00	14.67	150	342	Vertical
2	6960.09	48.86	21.26	54.00	5.14	150	0	Vertical
3	10480.0	41.63	-2.94	54.00	12.37	150	360	Vertical
4	10480.0	52.00	-2.94	74.00	22.00	150	319	Vertical
5	15720.0	55.39	0.29	74.00	18.61	150	319	Vertical
6	15720.0	44.14	0.29	54.00	9.86	150	168	Vertical
7	17267.3	45.48	-2.44	54.00	8.52	150	218	Vertical

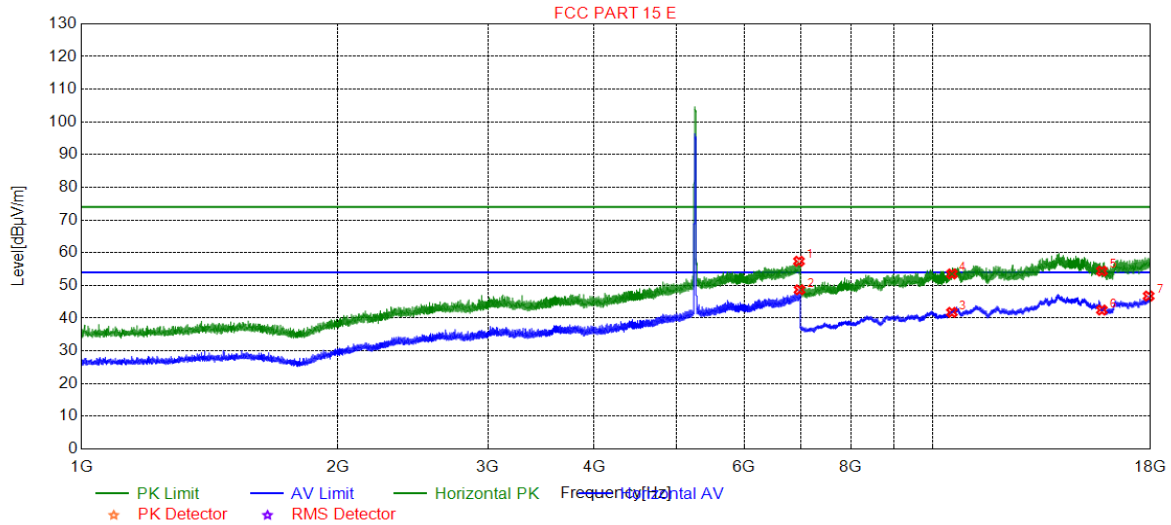
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4.9.2.7 802.11A_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6957.99	57.41	21.26	74.00	16.59	150	219	Horizontal
2	6968.19	48.70	21.26	54.00	5.30	150	18	Horizontal
3	10520.0	41.78	-2.80	54.00	12.22	150	241	Horizontal
4	10520.0	53.53	-2.80	74.00	20.47	150	241	Horizontal
5	15780.0	54.40	-0.72	74.00	19.60	150	342	Horizontal
6	15780.0	42.48	-0.72	54.00	11.52	150	241	Horizontal
7	17909.2	46.78	-1.31	54.00	7.22	150	0	Horizontal

Final Data List



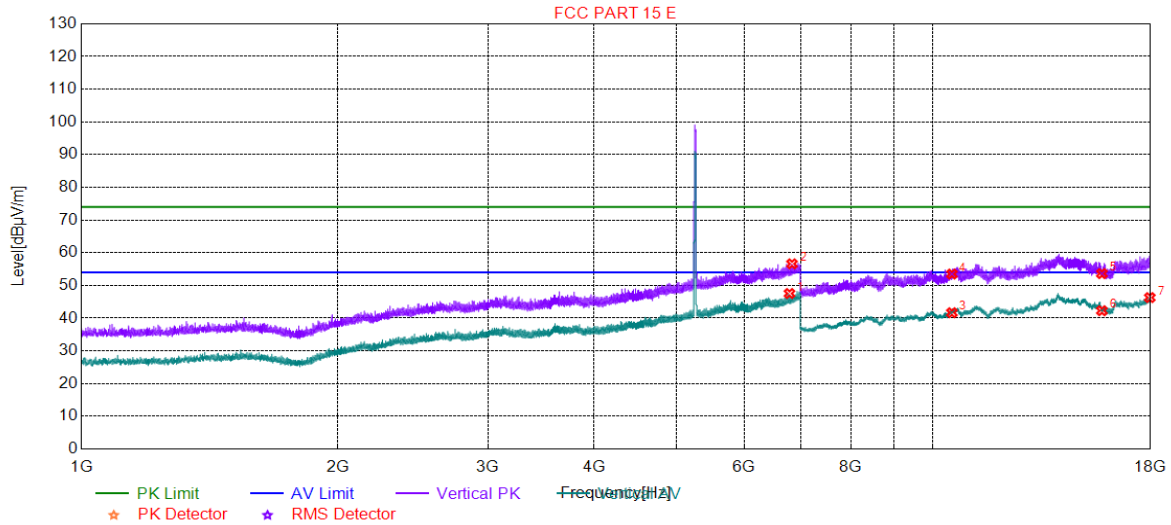
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4.9.2.8 802.11A_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6781.58	47.55	20.49	54.00	6.45	150	191	Vertical
2	6827.79	56.62	20.67	74.00	17.38	150	39	Vertical
3	10520.0	41.67	-2.80	54.00	12.33	150	360	Vertical
4	10520.0	53.50	-2.80	74.00	20.50	150	169	Vertical
5	15780.0	53.63	-0.72	74.00	20.37	150	118	Vertical
6	15780.0	42.29	-0.72	54.00	11.71	150	360	Vertical
7	17963.6	46.30	-1.29	54.00	7.70	150	269	Vertical

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