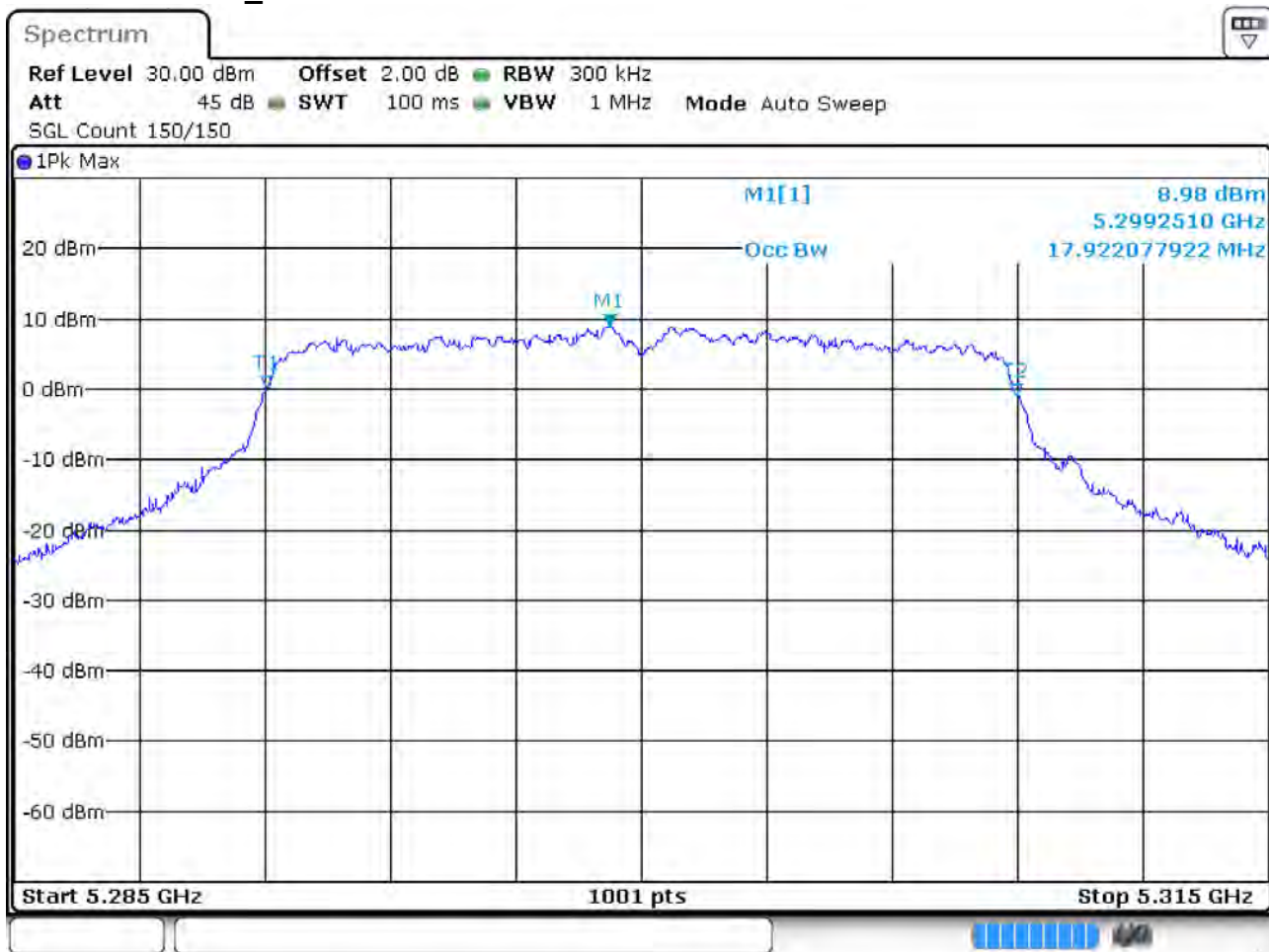
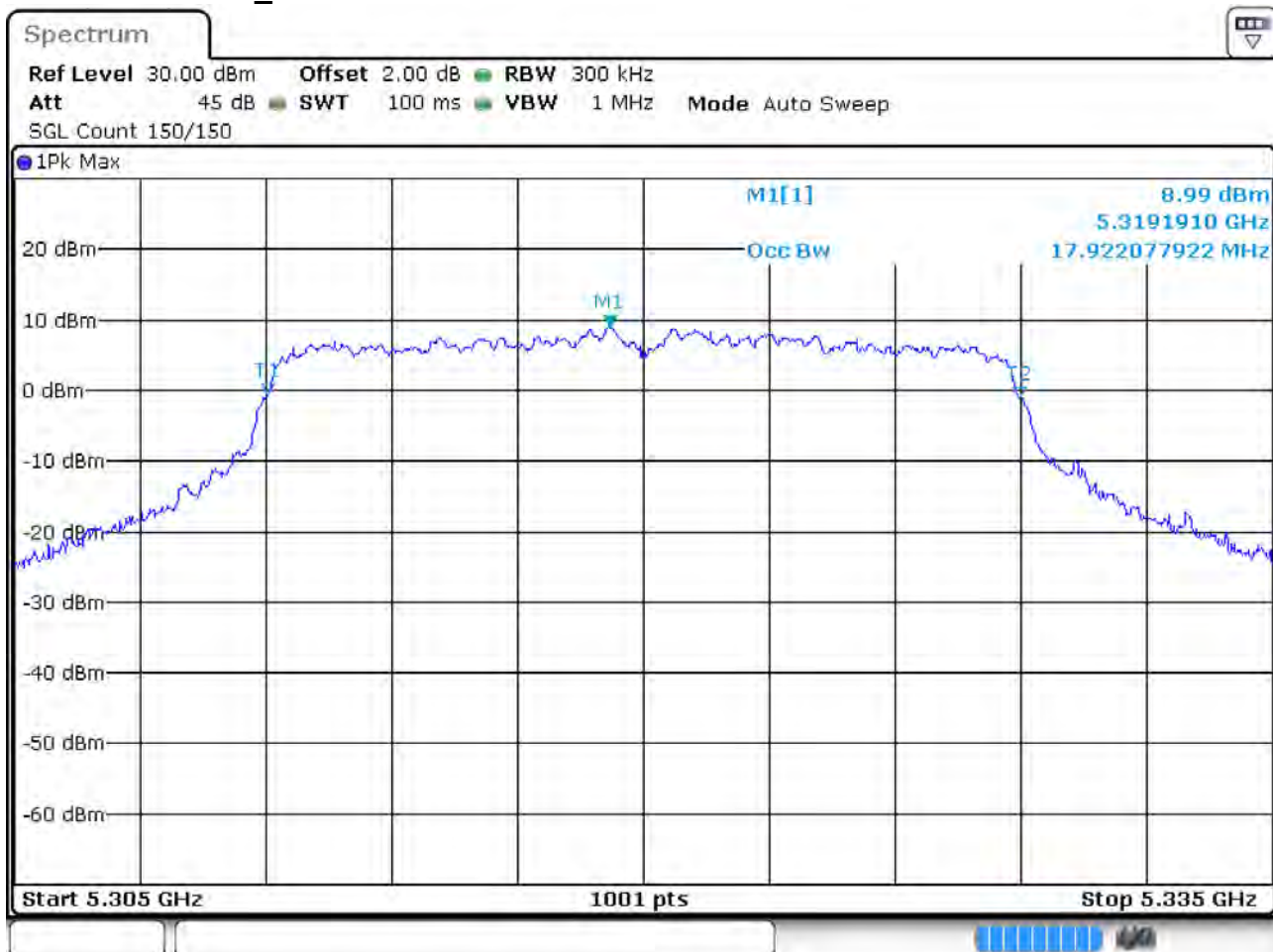


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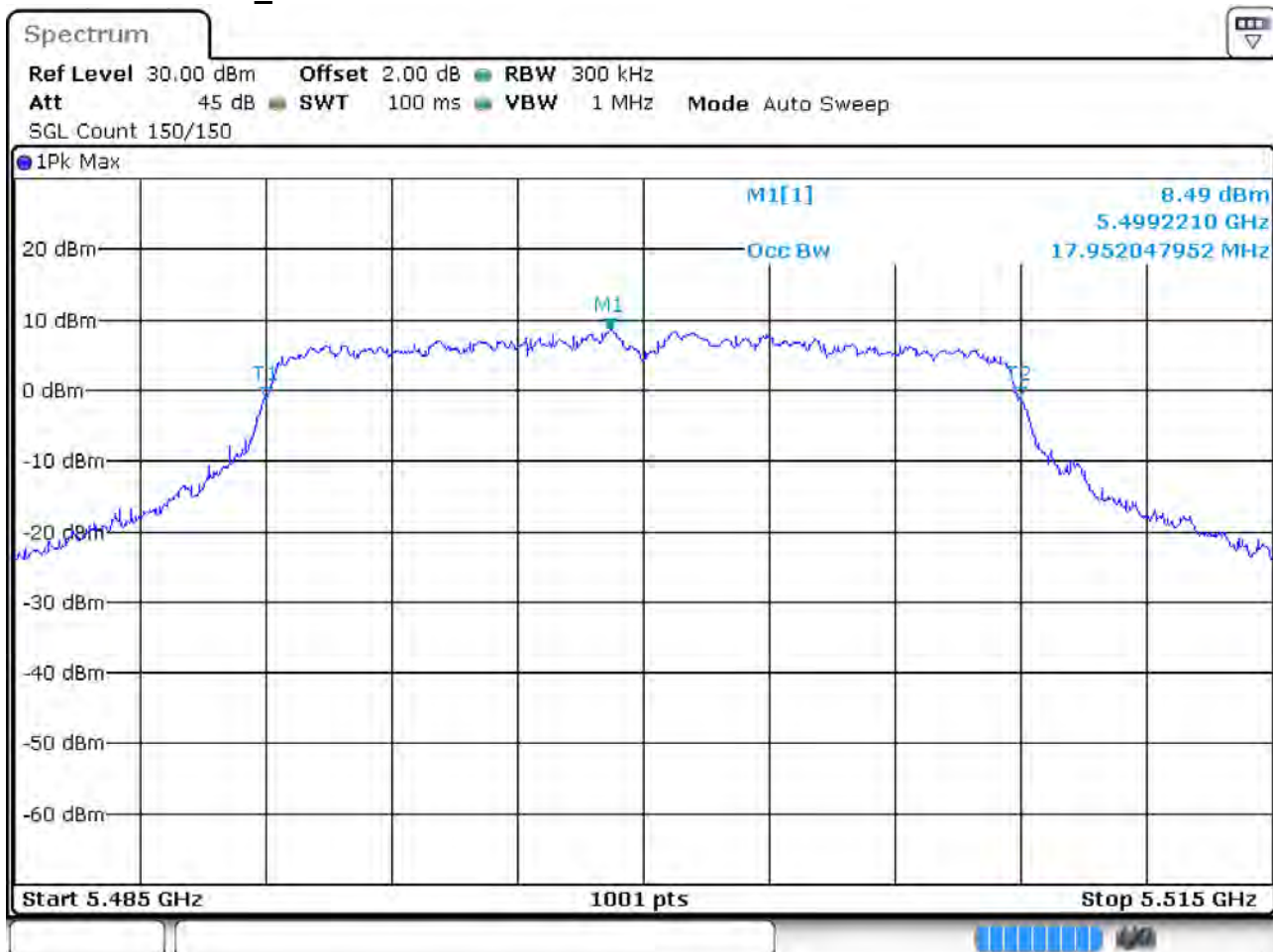
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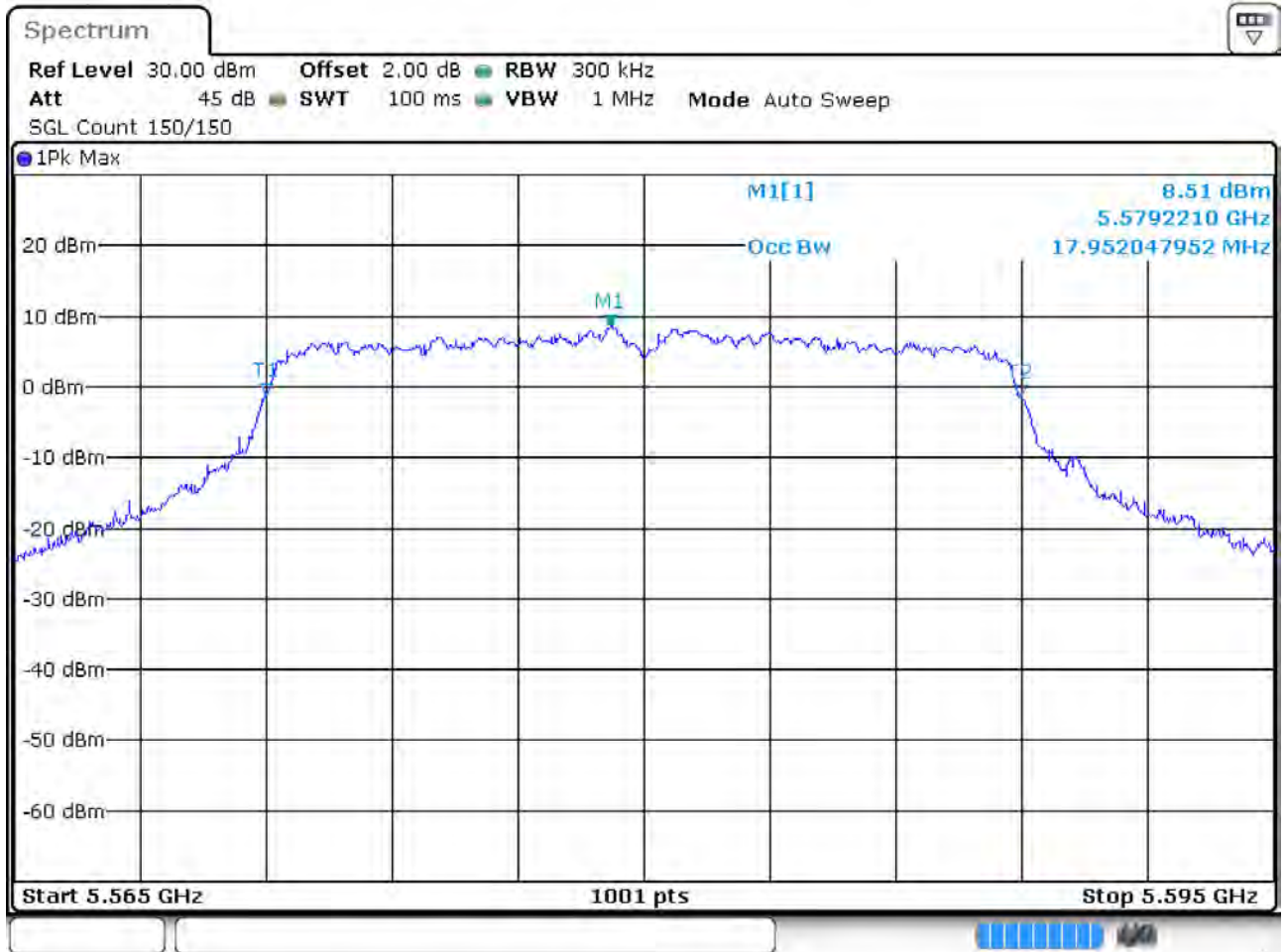
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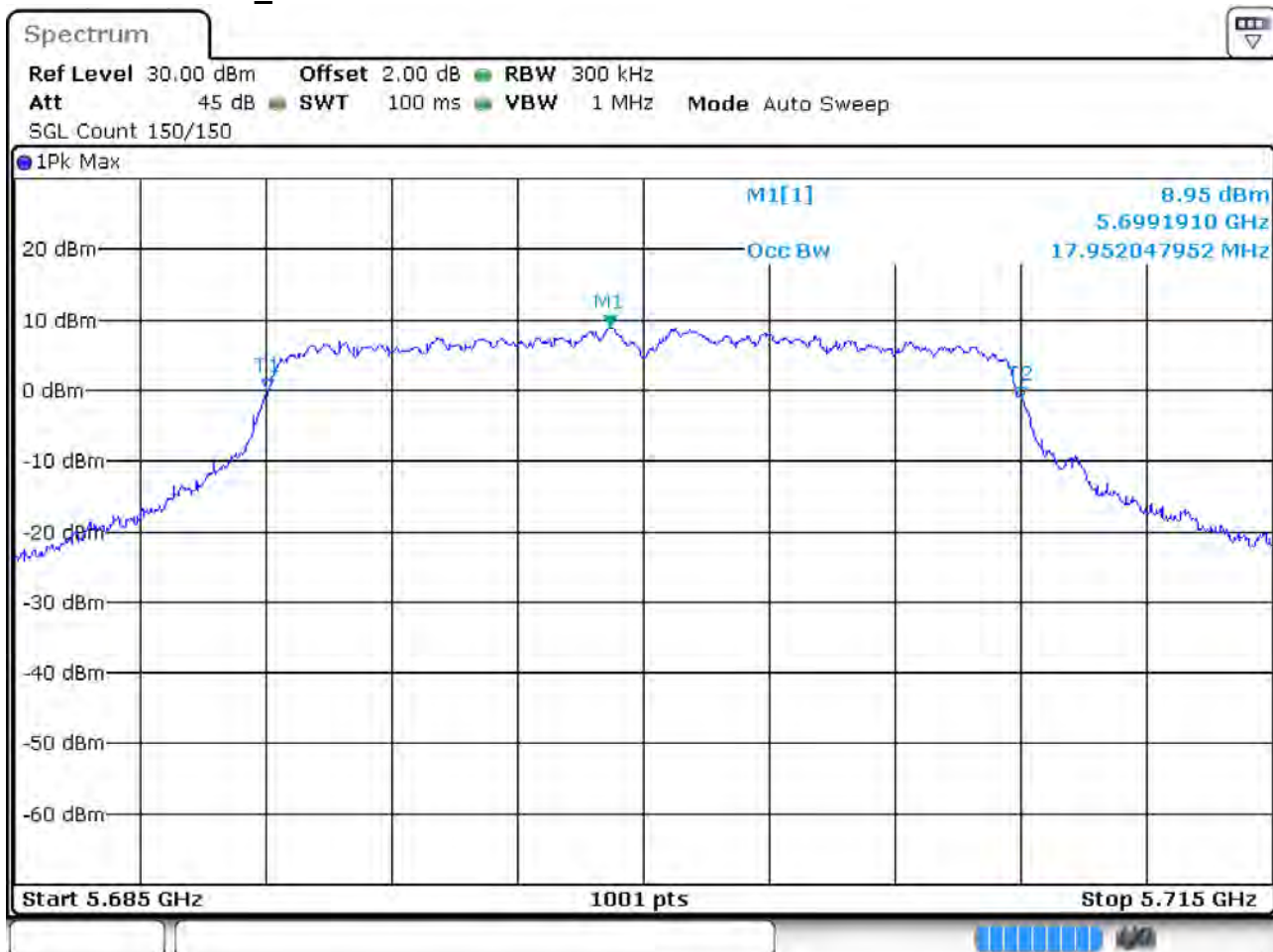


4.7.2.20 11N20_116 ANT 1



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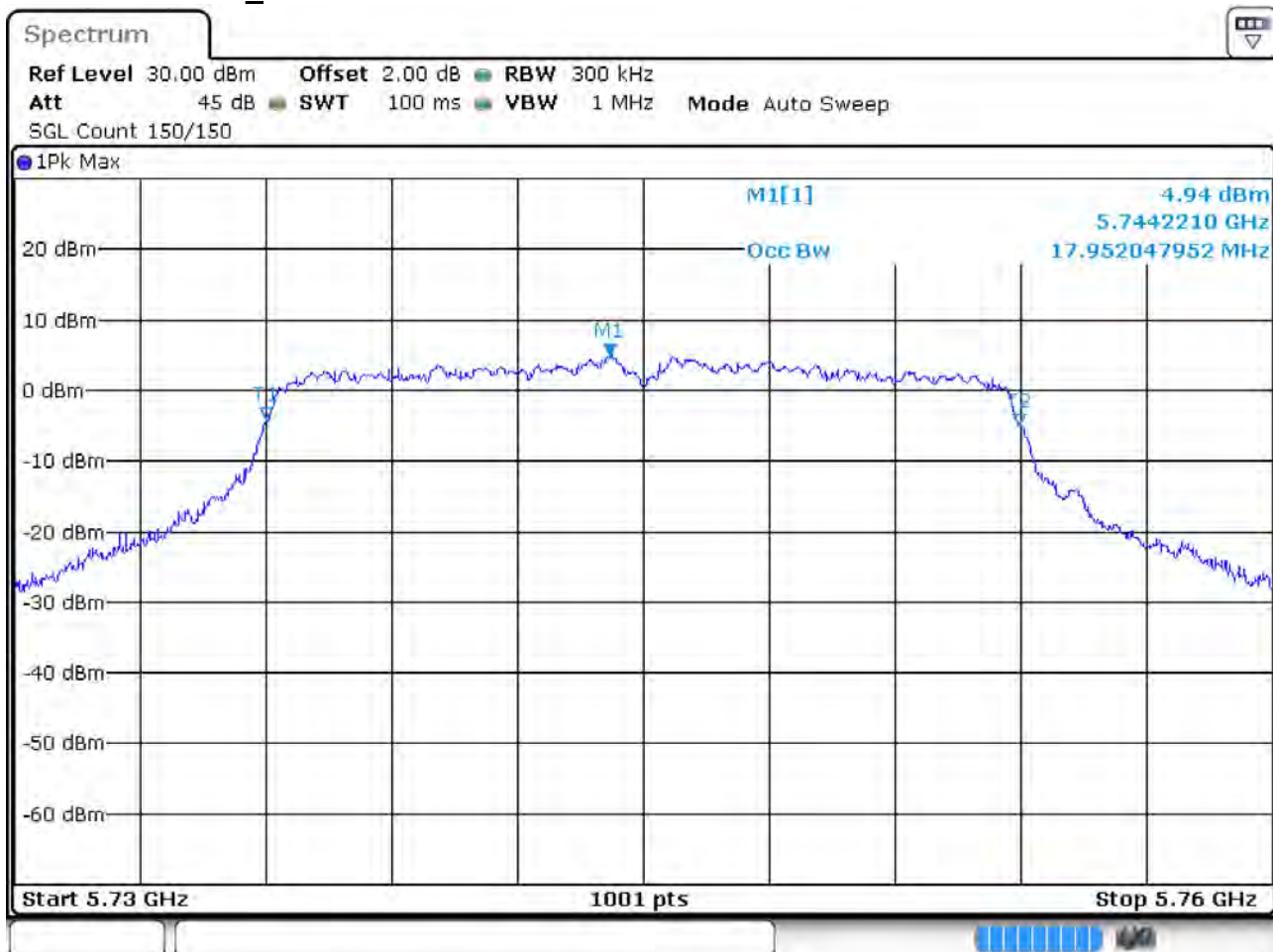
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Date: 21.AUG.2020 17:13:30



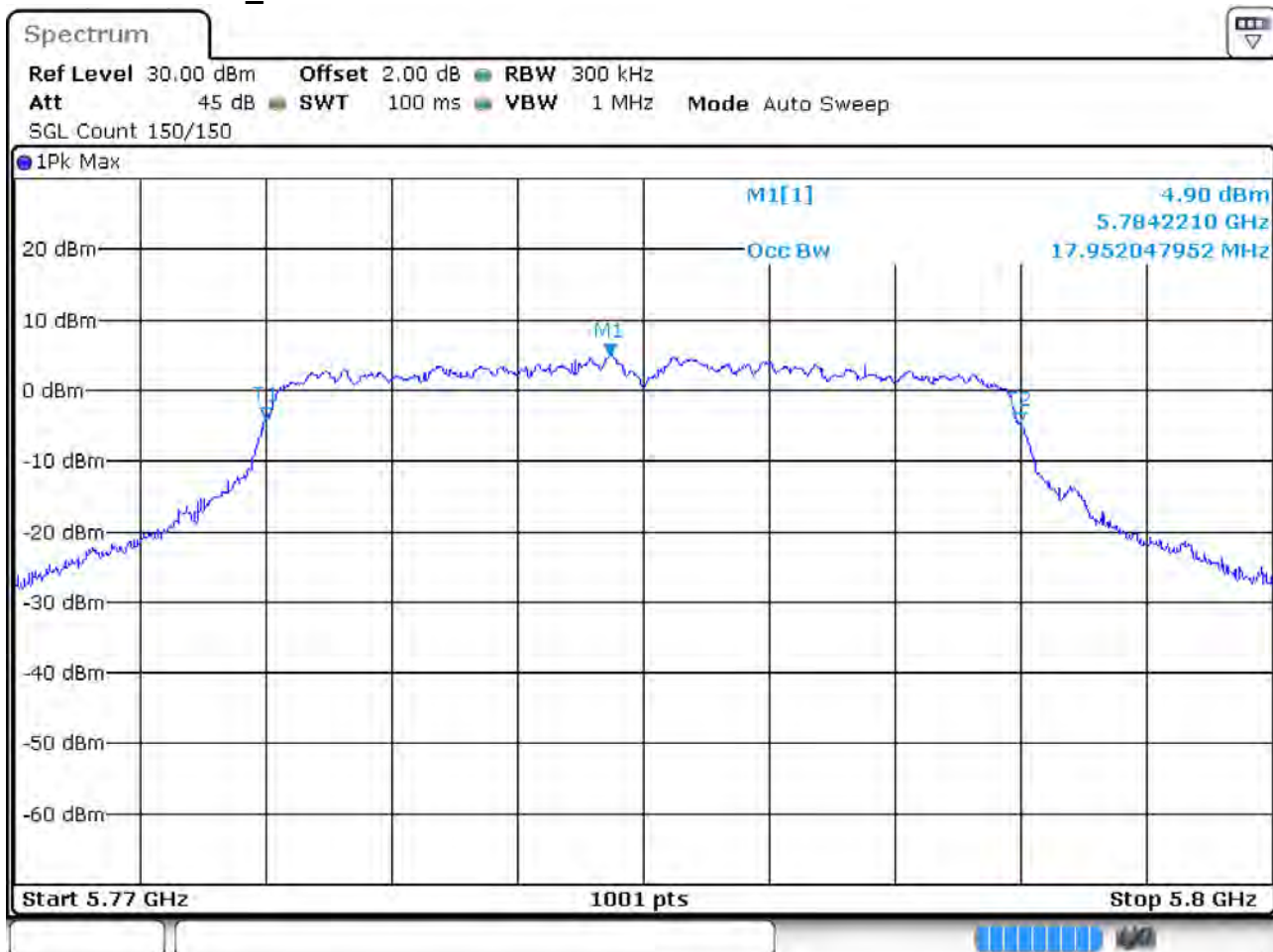
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Date: 21.AUG.2020 17:15:45



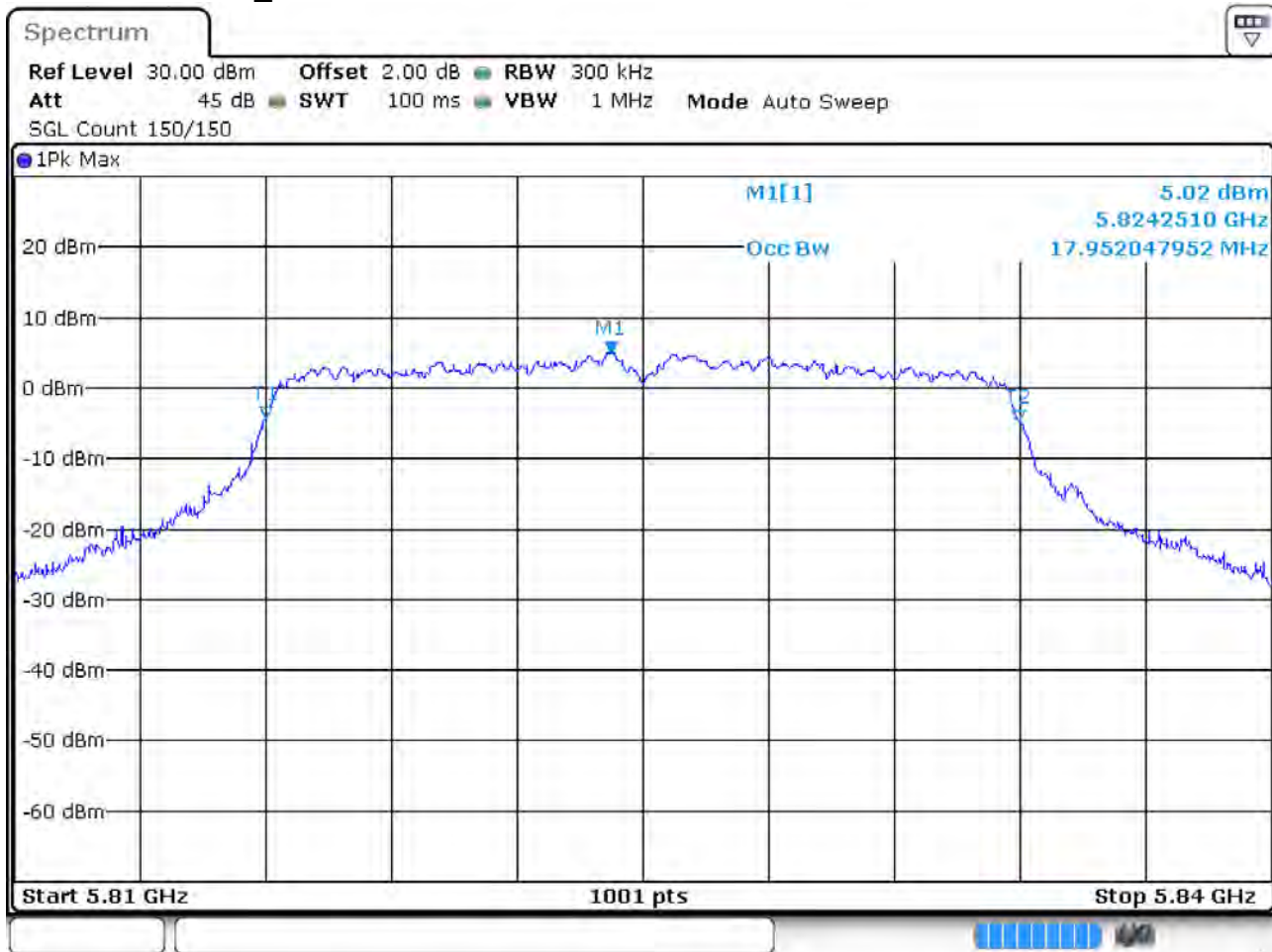
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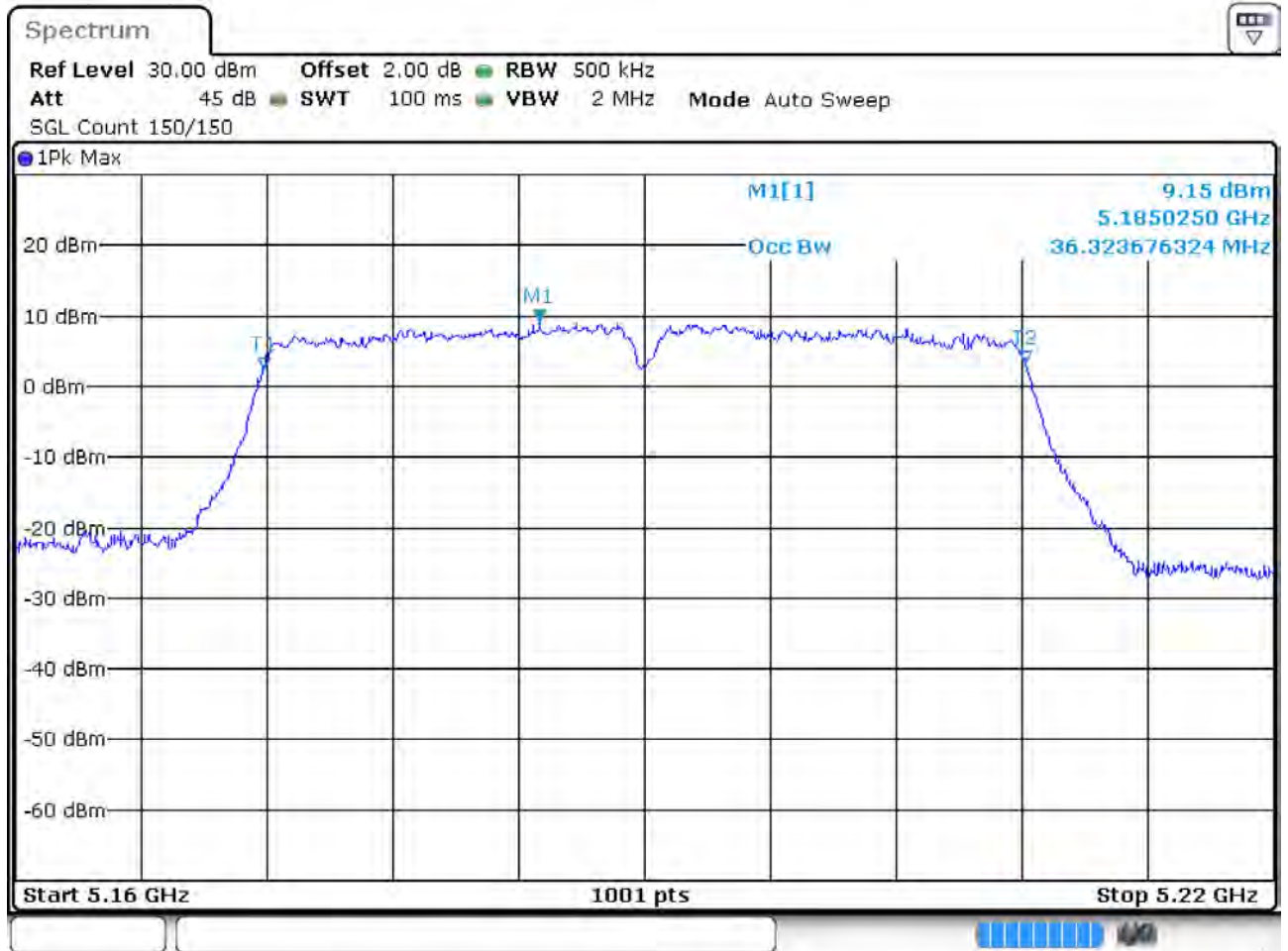
4.7.2.24 11N20_165 ANT 1



Date: 21.AUG.2020 17:19:11



4.7.2.25 11N40_38 ANT 1



Date: 21.AUG.2020 17:58:40



4.7.2.26 11N40_46 ANT 1



Date: 21.AUG.2020 18:00:26



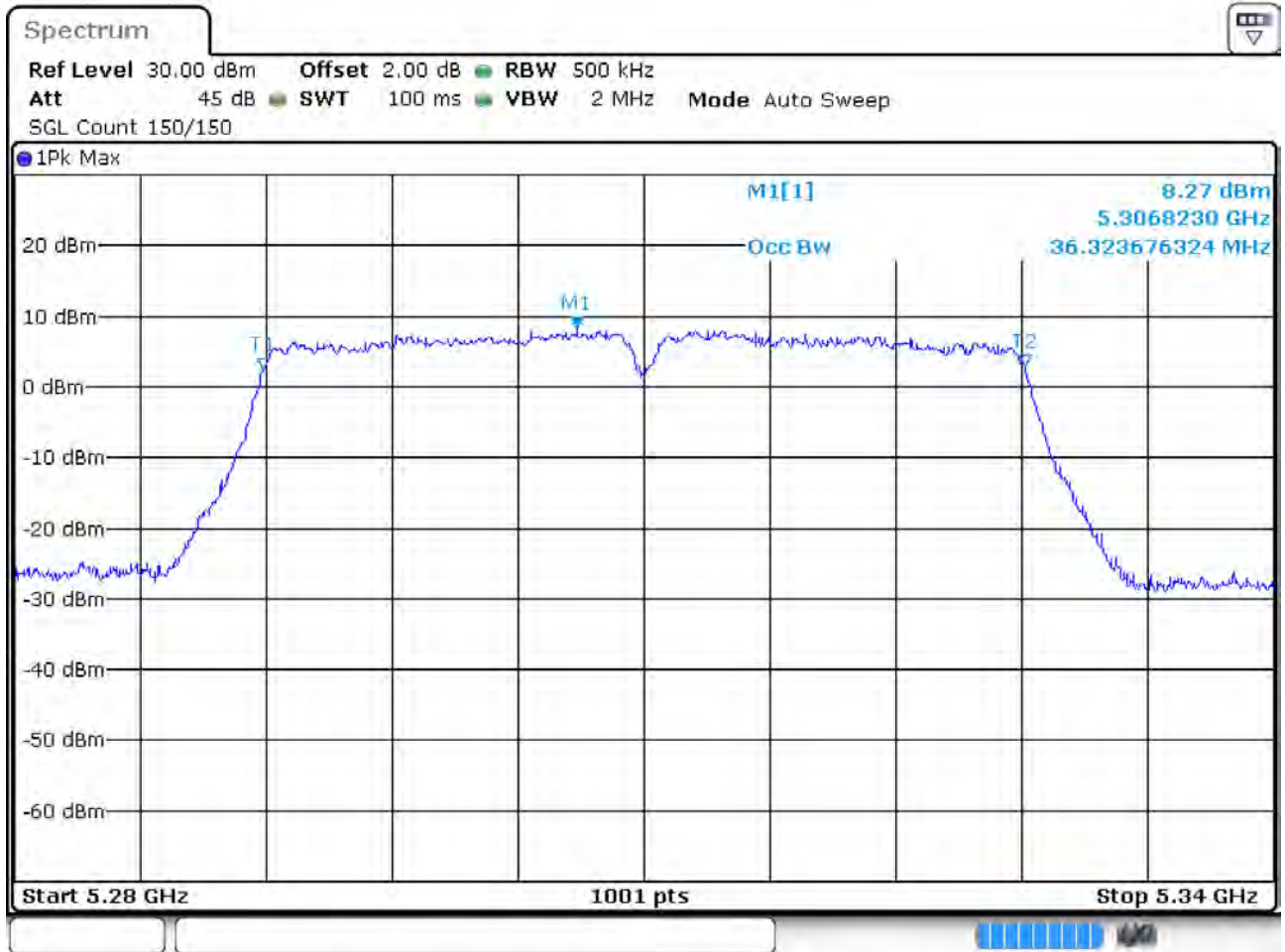
4.7.2.27 11N40_54 ANT 1



Date: 21.AUG.2020 18:02:20



4.7.2.28 11N40_62 ANT 1



Date: 21.AUG.2020 18:04:08

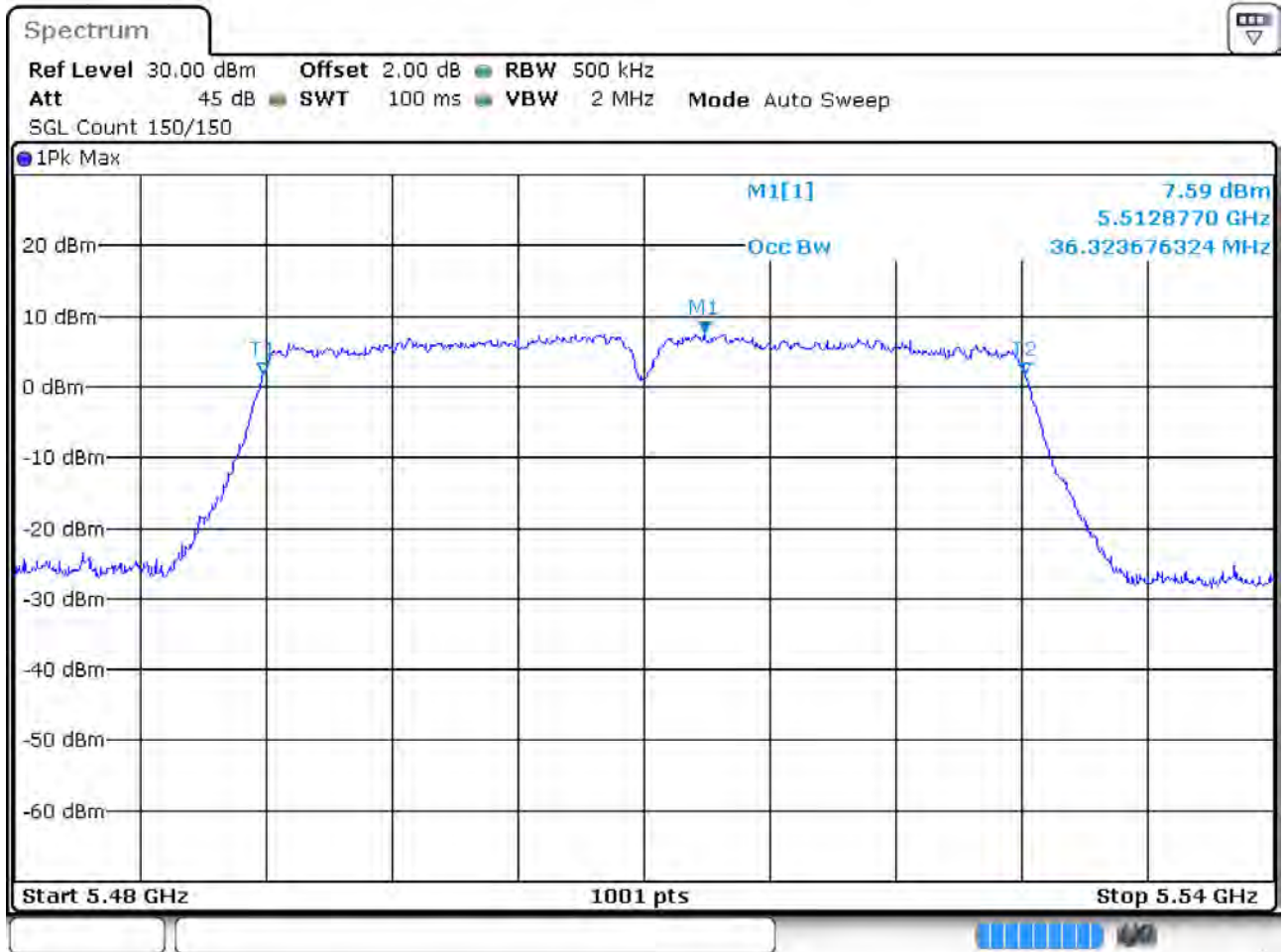


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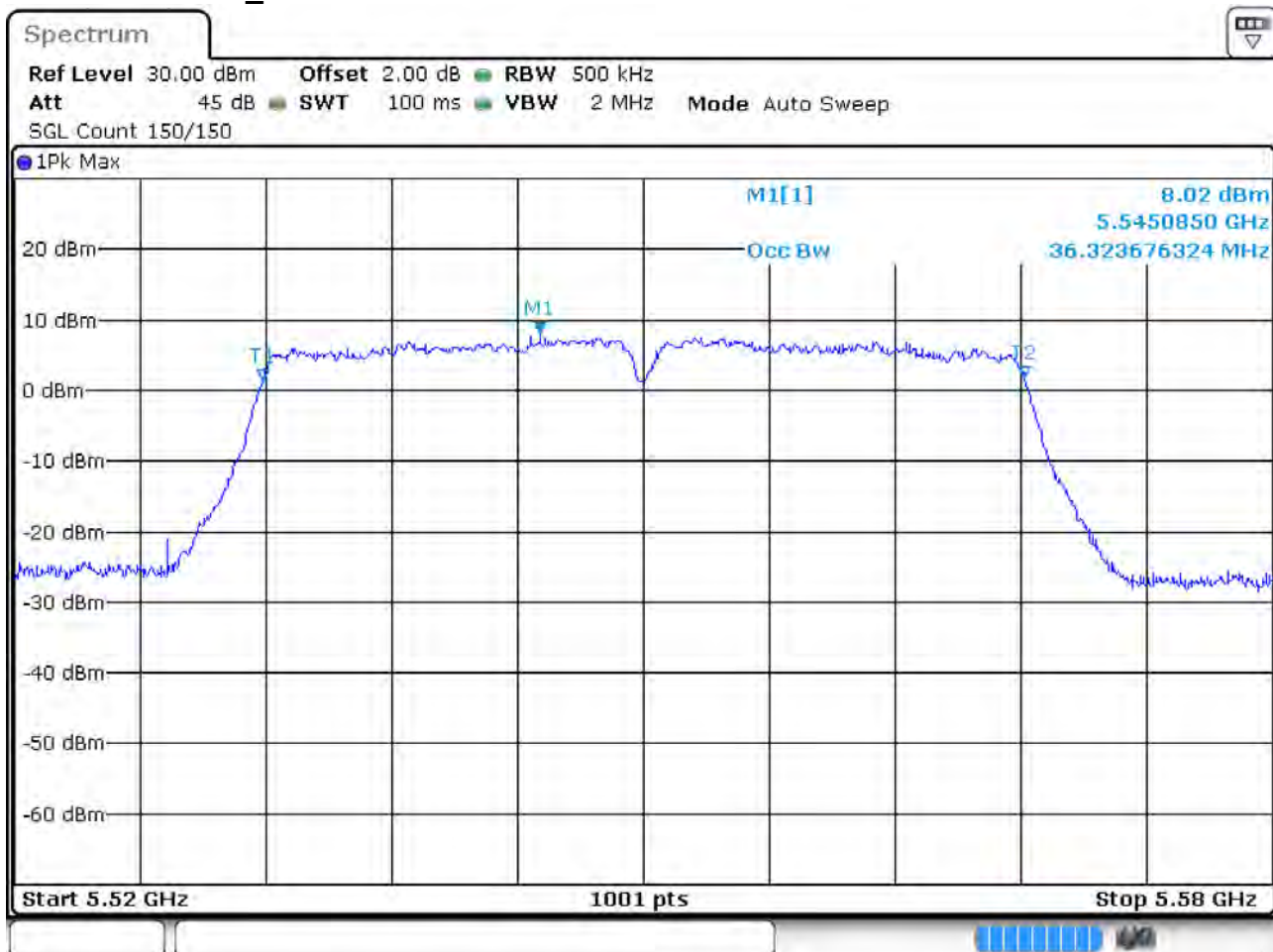
4.7.2.29 11N40_102 ANT 1



Date: 21.AUG.2020 18:06:52



4.7.2.30 11N40_110 ANT 1



Date: 21.AUG.2020 18:08:28



4.7.2.31 11N40_134 ANT 1



Date: 21.AUG.2020 18:10:20

4.7.2.32 11N40_151 ANT 1



Date: 21.AUG.2020 18:12:37



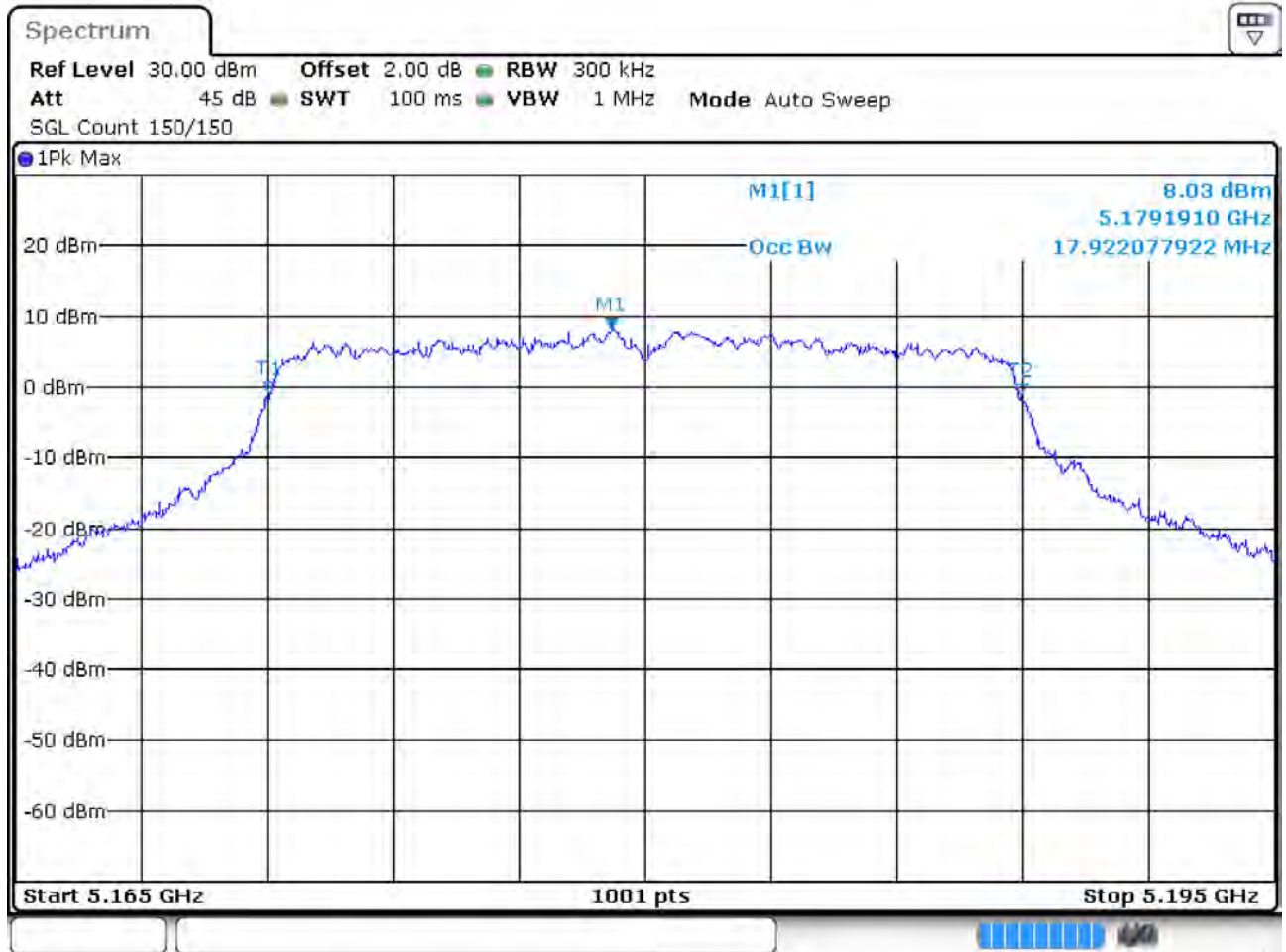
4.7.2.33 11N40_159 ANT 1



Date: 21.AUG.2020 18:14:19



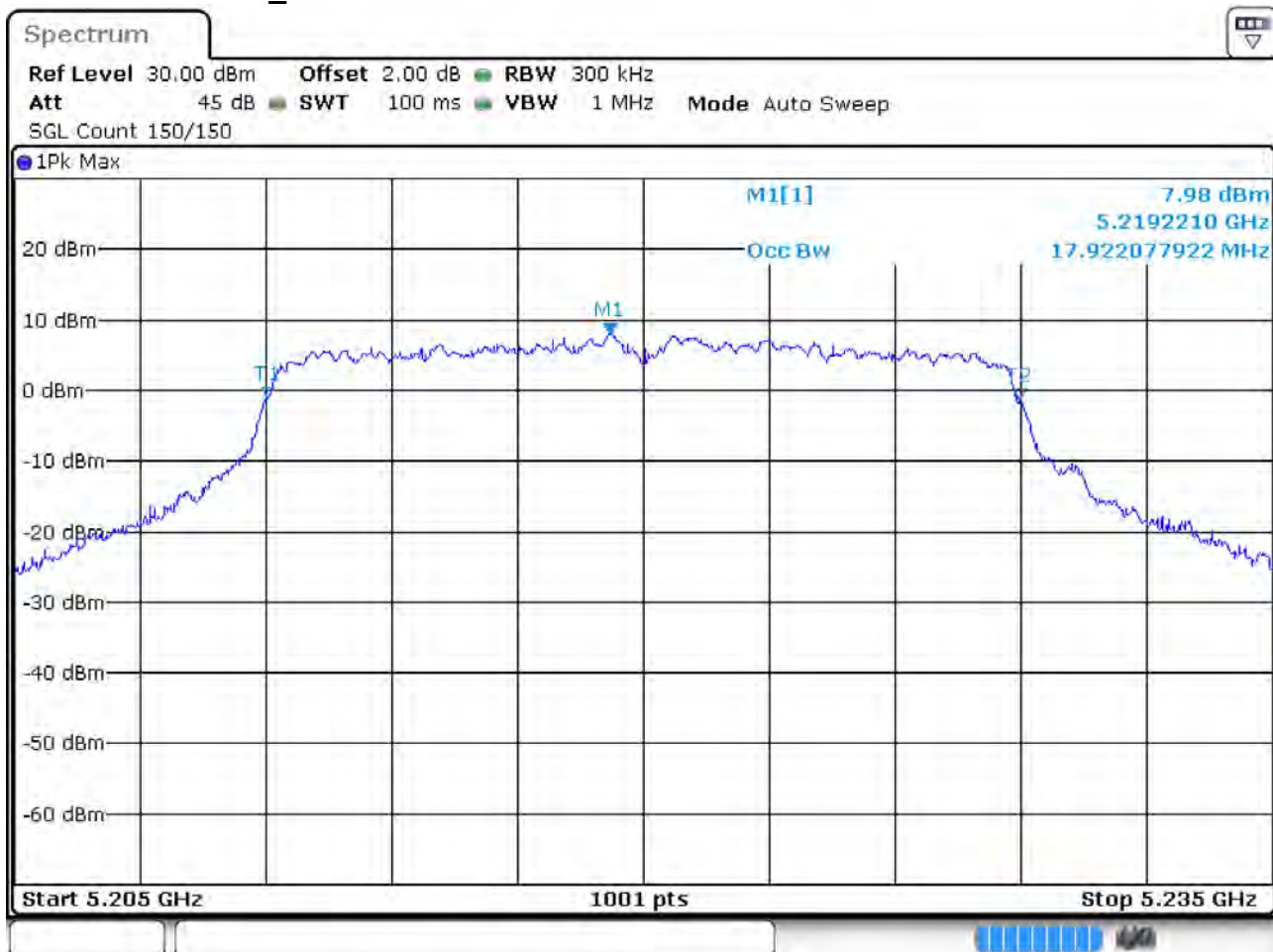
4.7.2.34 11AC20_36 ANT 1



Date: 21.AUG.2020 17:22:41



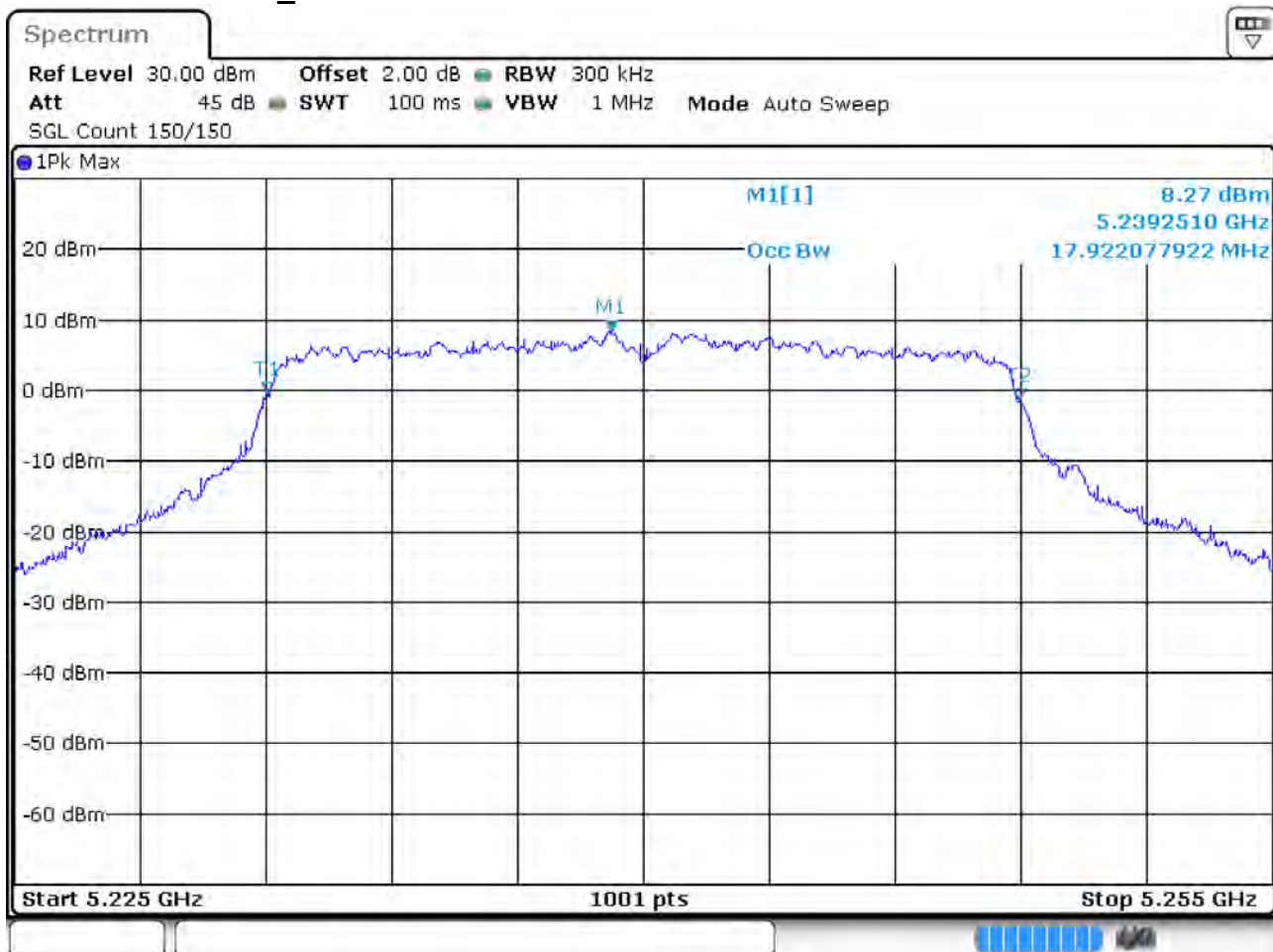
4.7.2.35 11AC20_44 ANT 1



Date: 21.AUG.2020 17:24:24



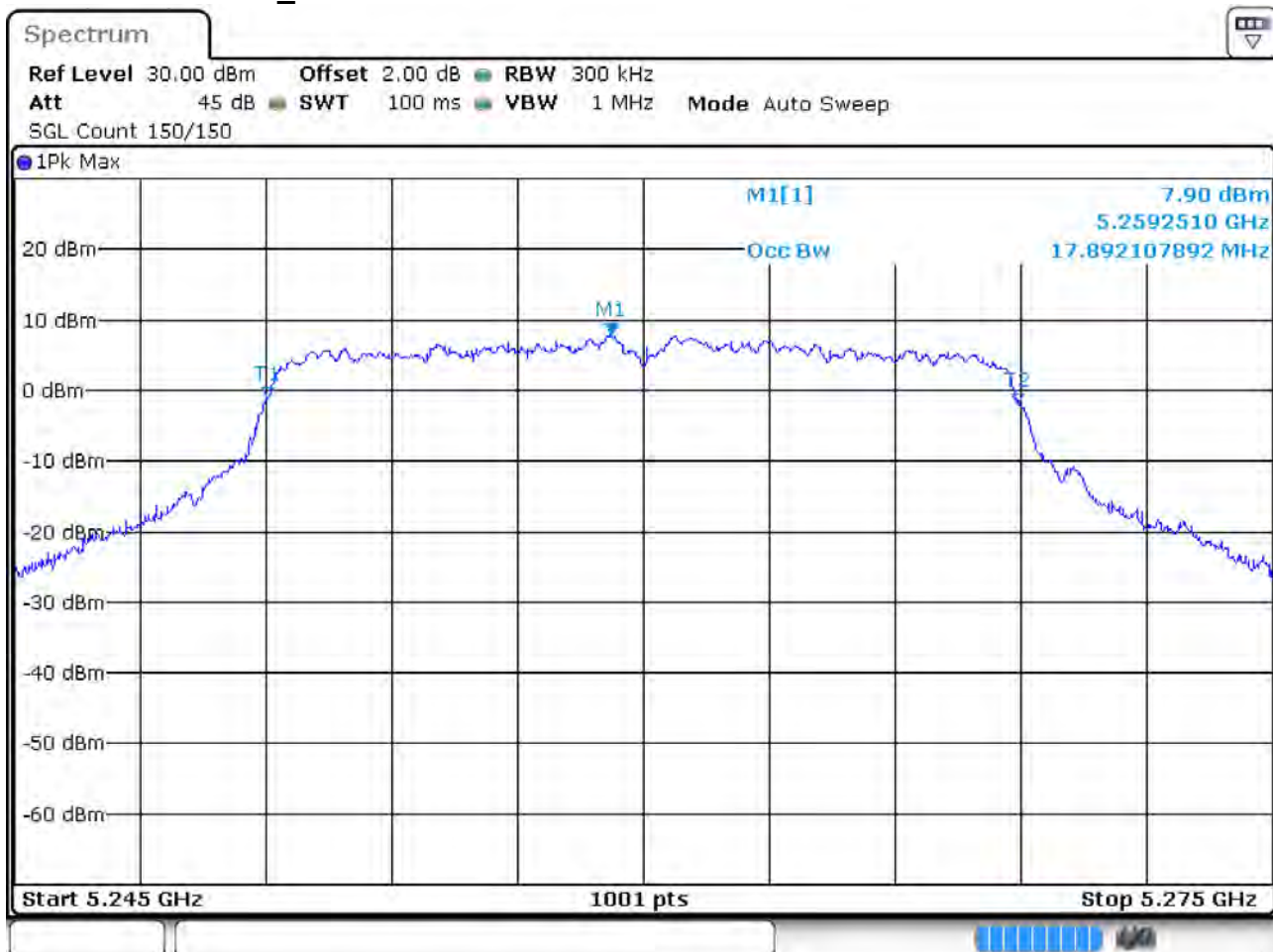
4.7.2.36 11AC20_48 ANT 1



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4.7.2.37 11AC20_52 ANT 1



Date: 21.AUG.2020 17:28:42

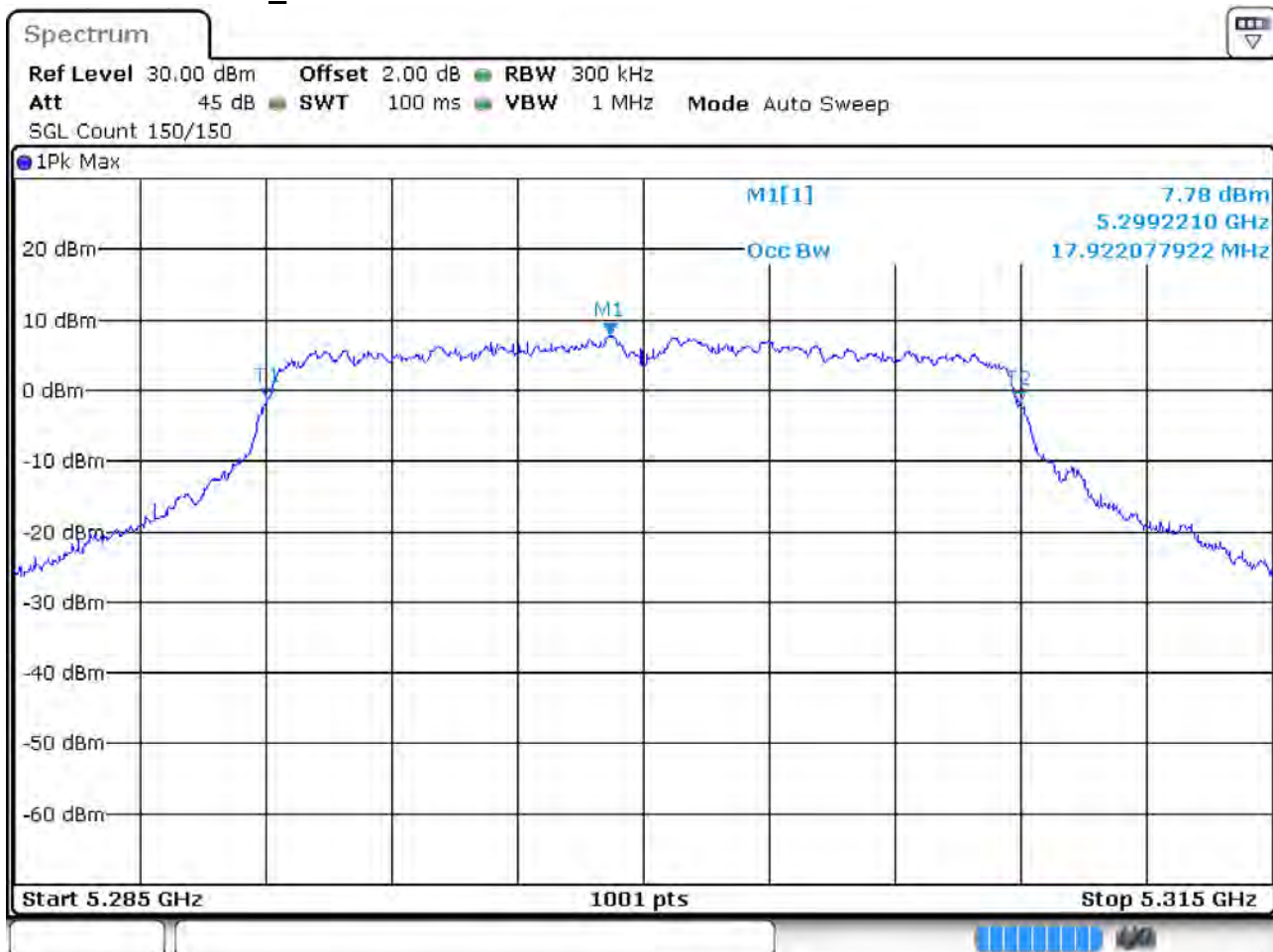


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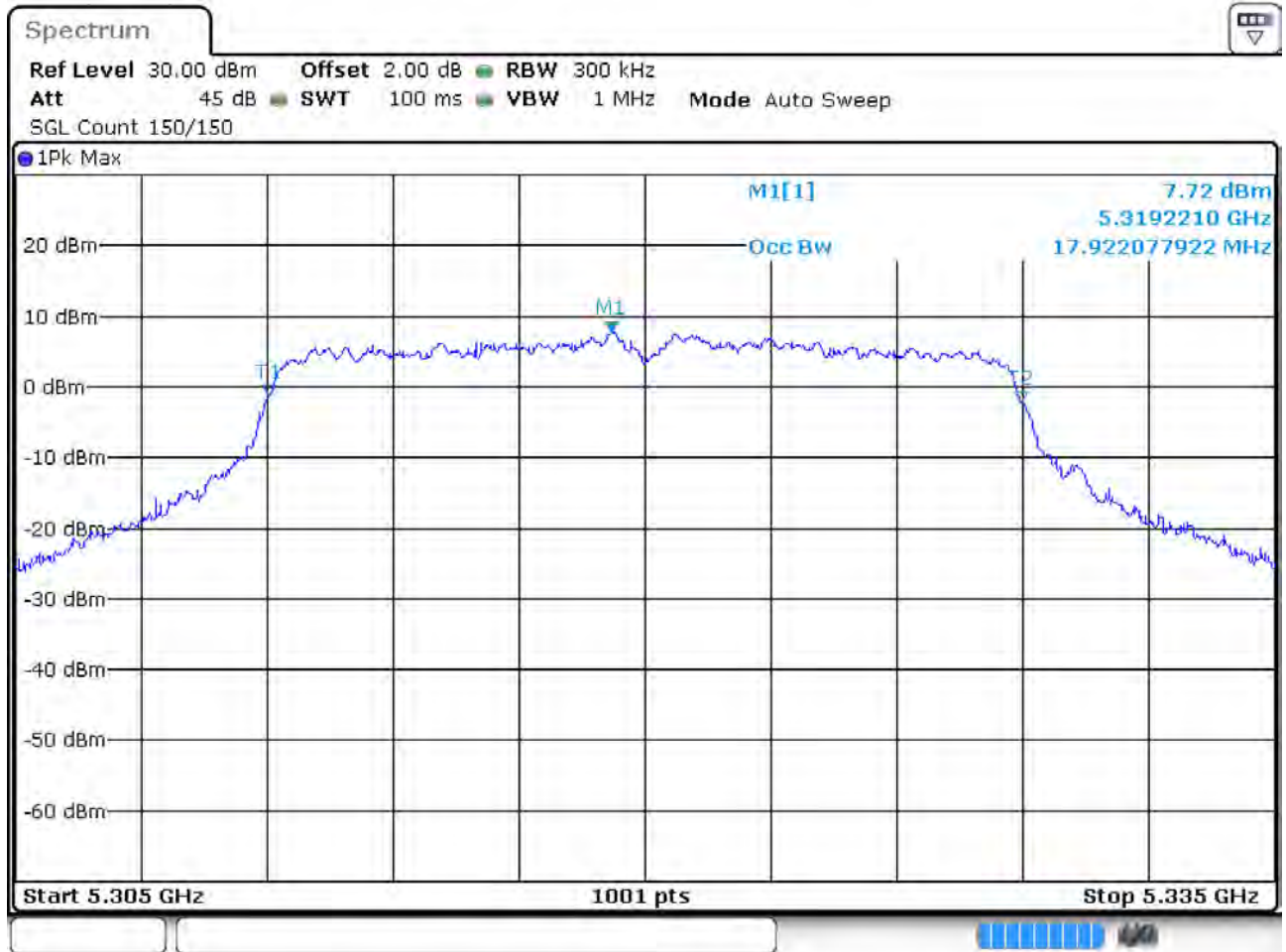
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4.7.2.38 11AC20_60 ANT 1



Date: 21.AUG.2020 17:30:32

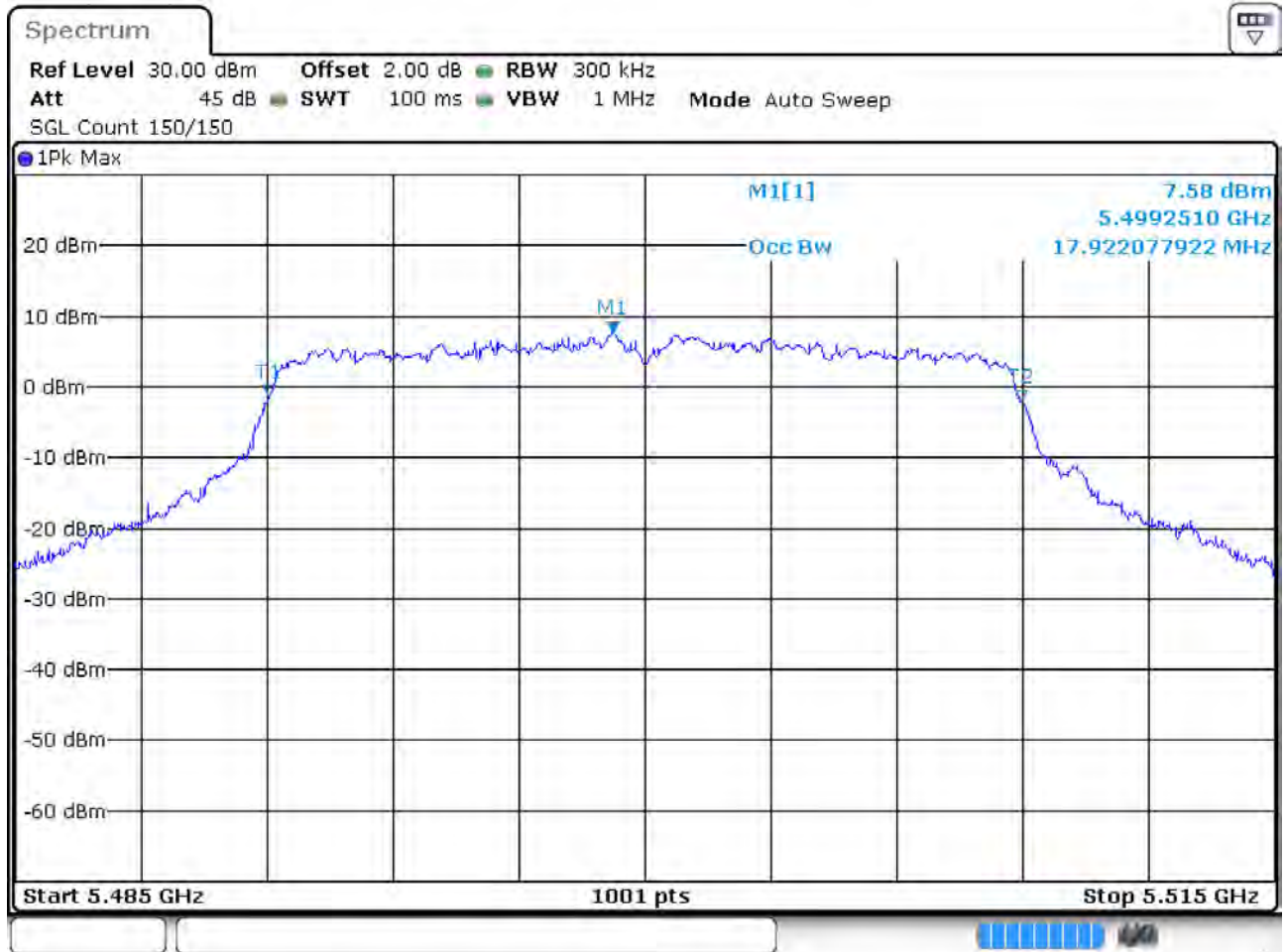
4.7.2.39 11AC20_64 ANT 1



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4.7.2.40 11AC20_100 ANT 1



Date: 21.AUG.2020 17:43:16

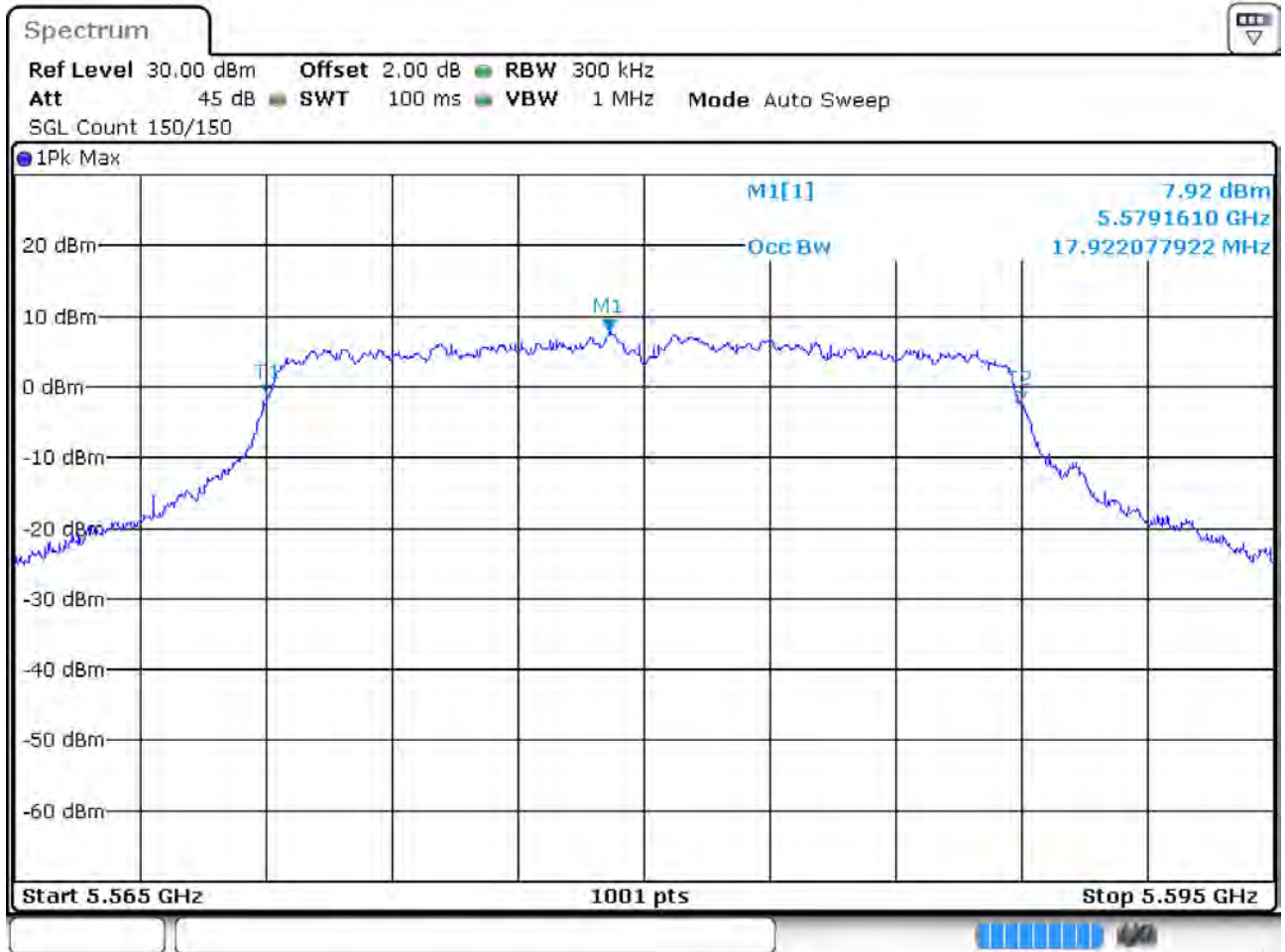


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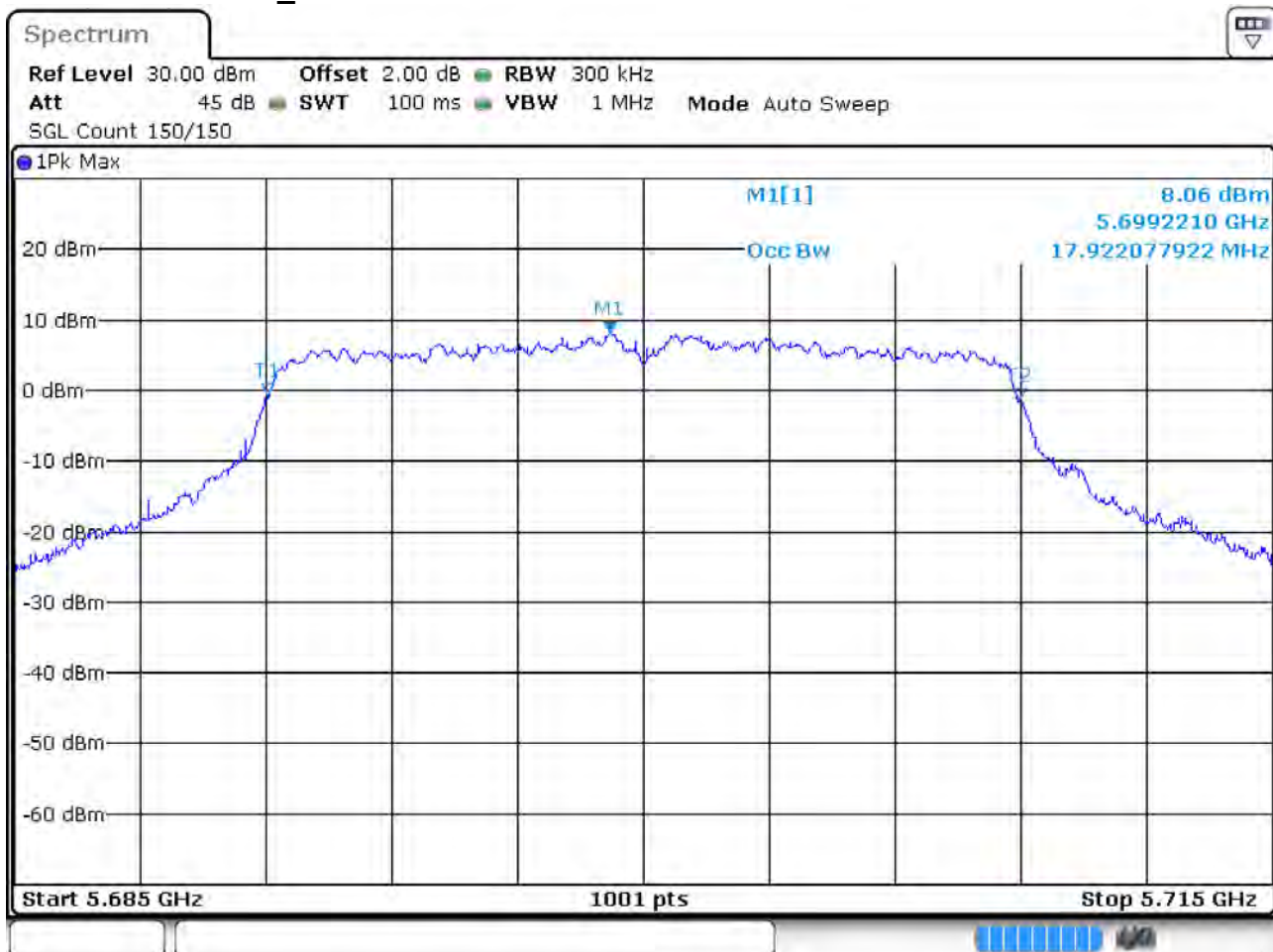
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4.7.2.41 11AC20_116 ANT 1



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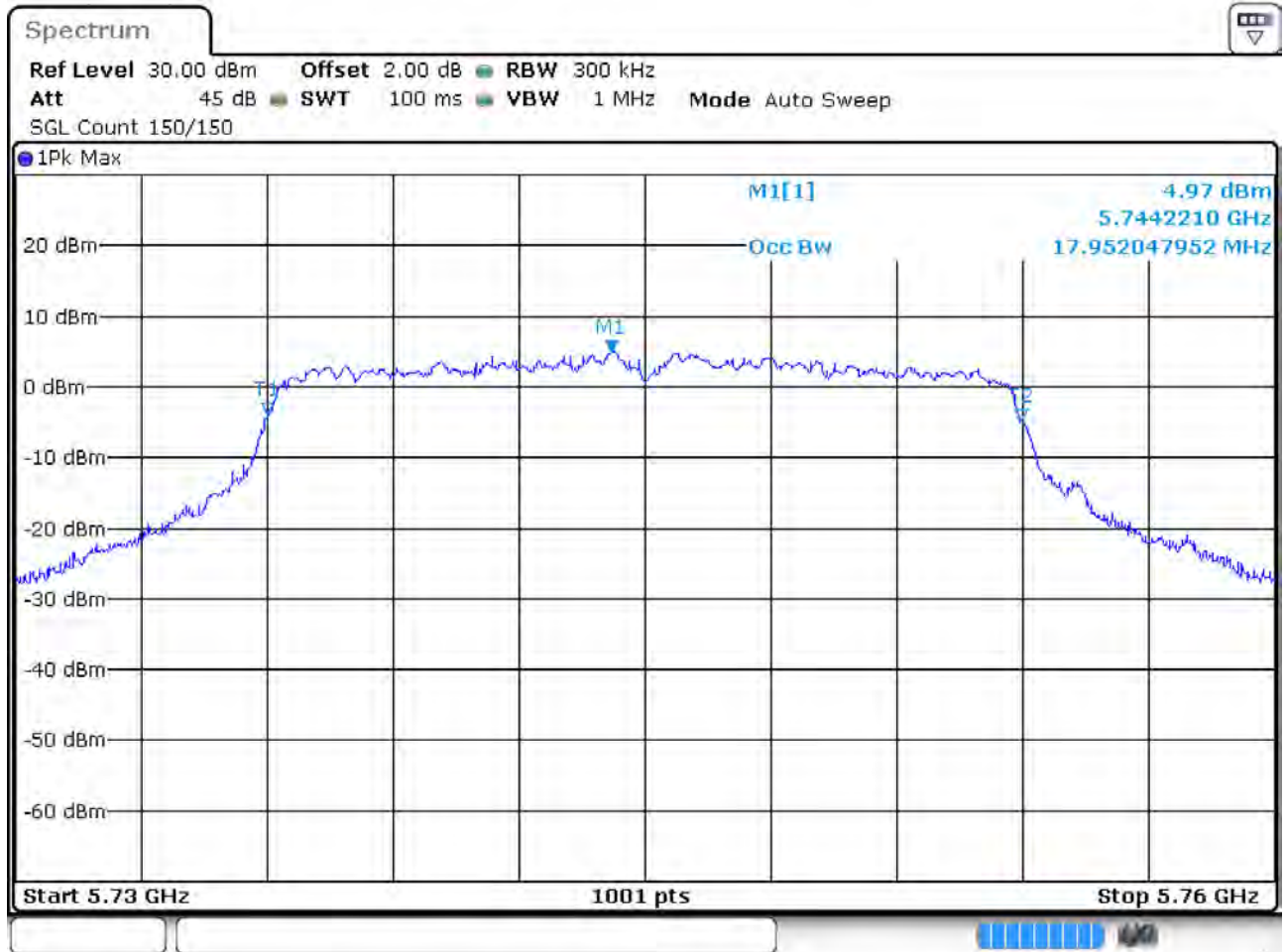
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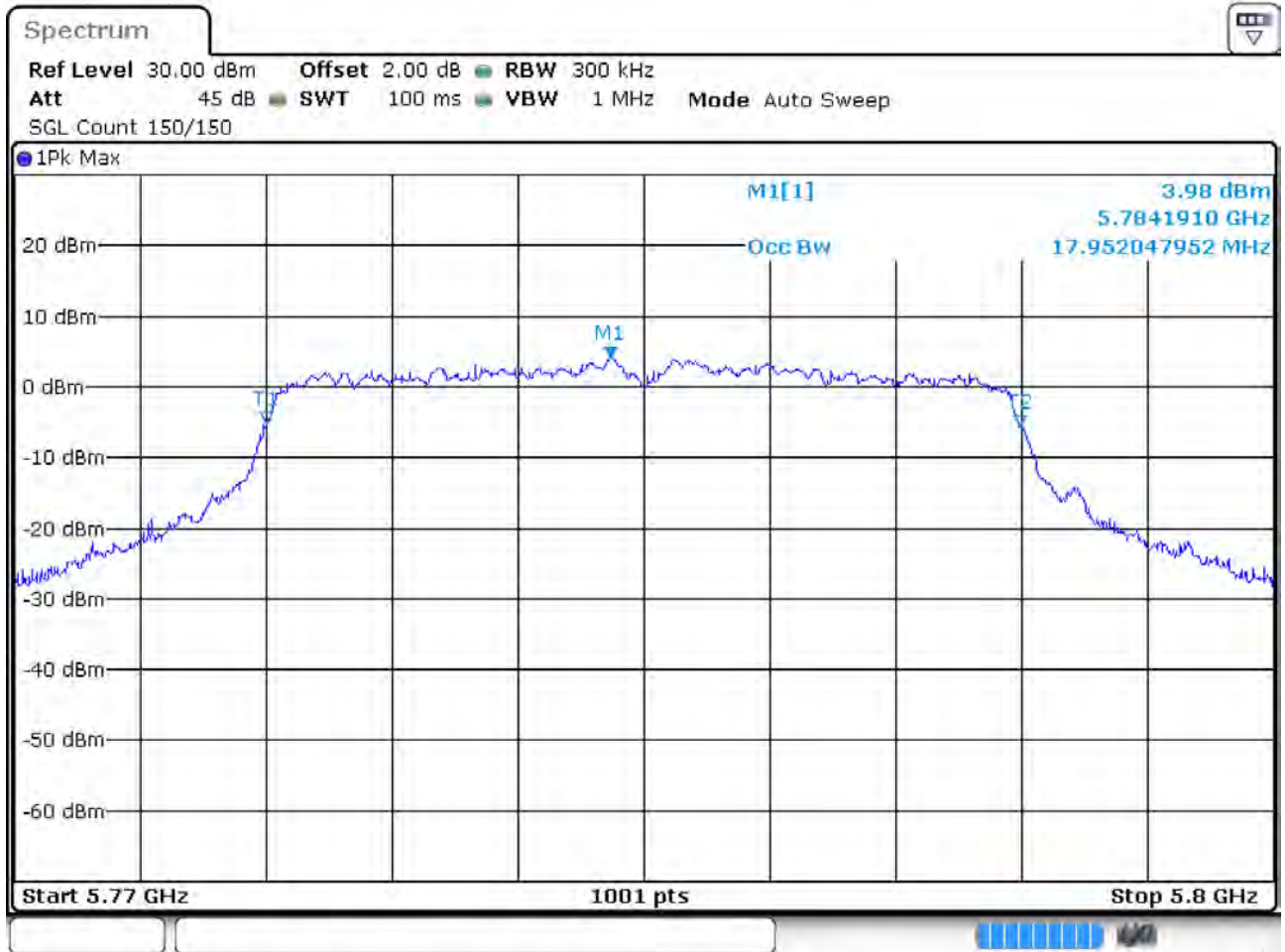
4.7.2.43 11AC20_149 ANT 1



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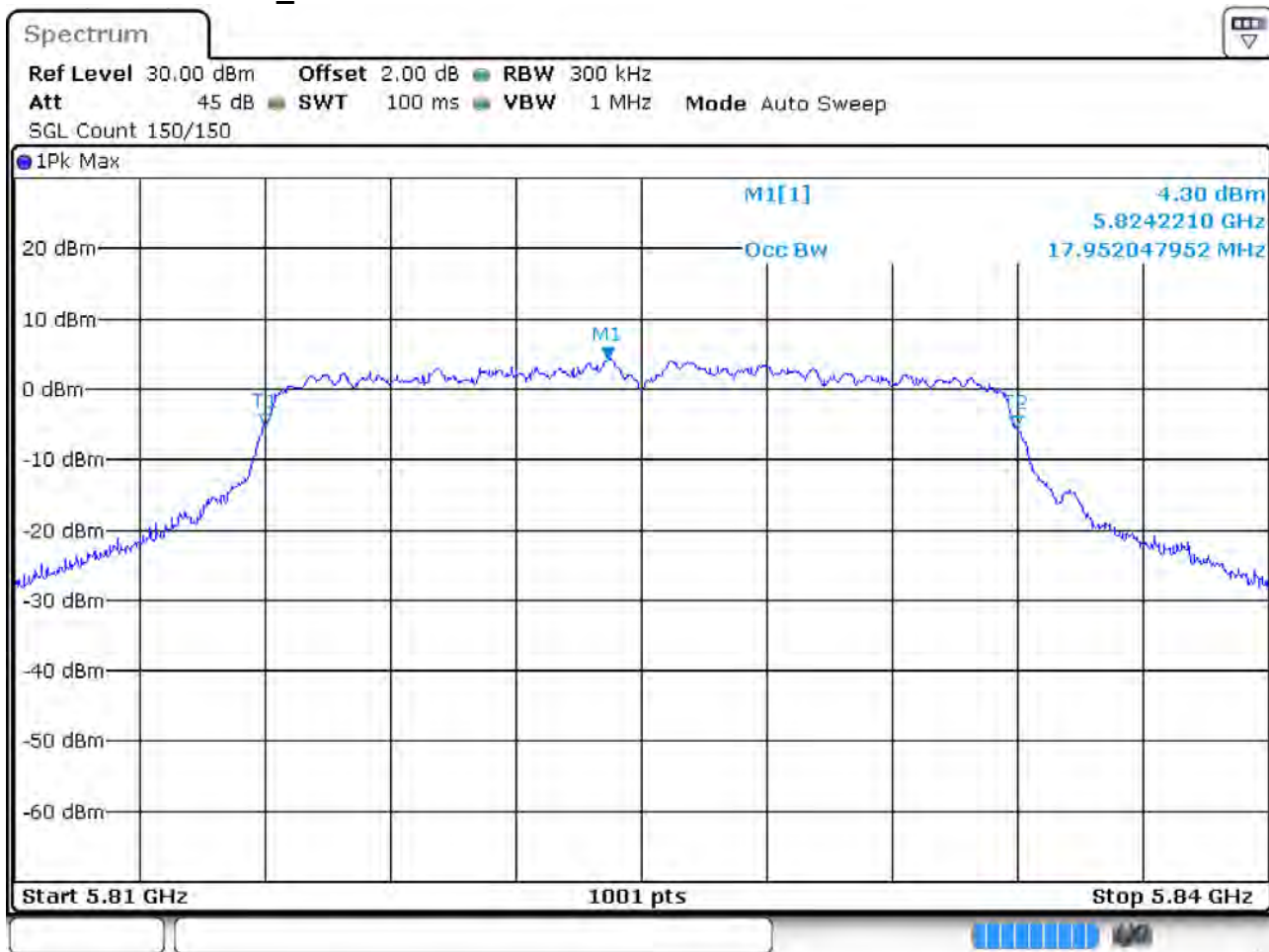


4.7.2.44 11AC20_157 ANT 1



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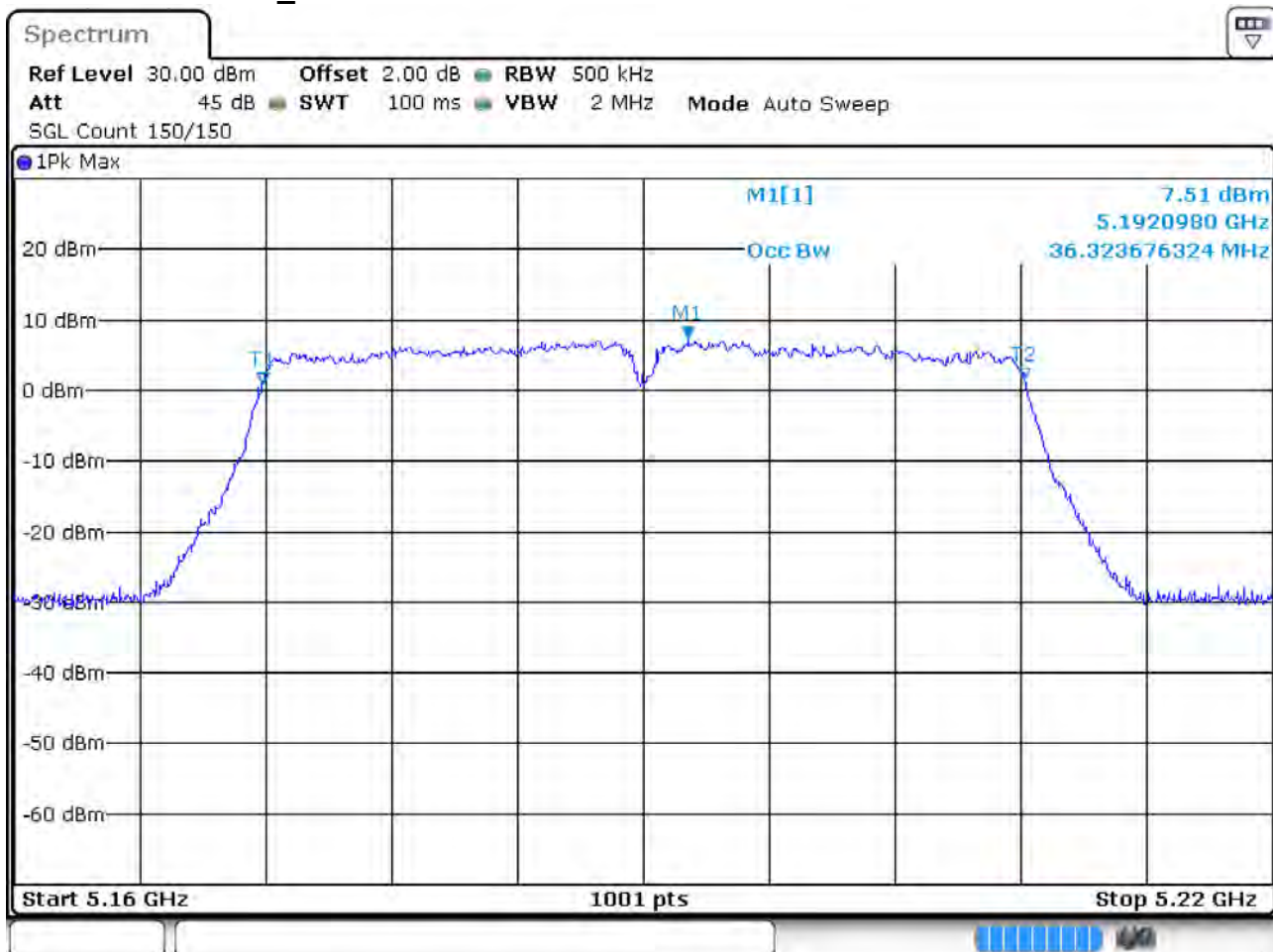
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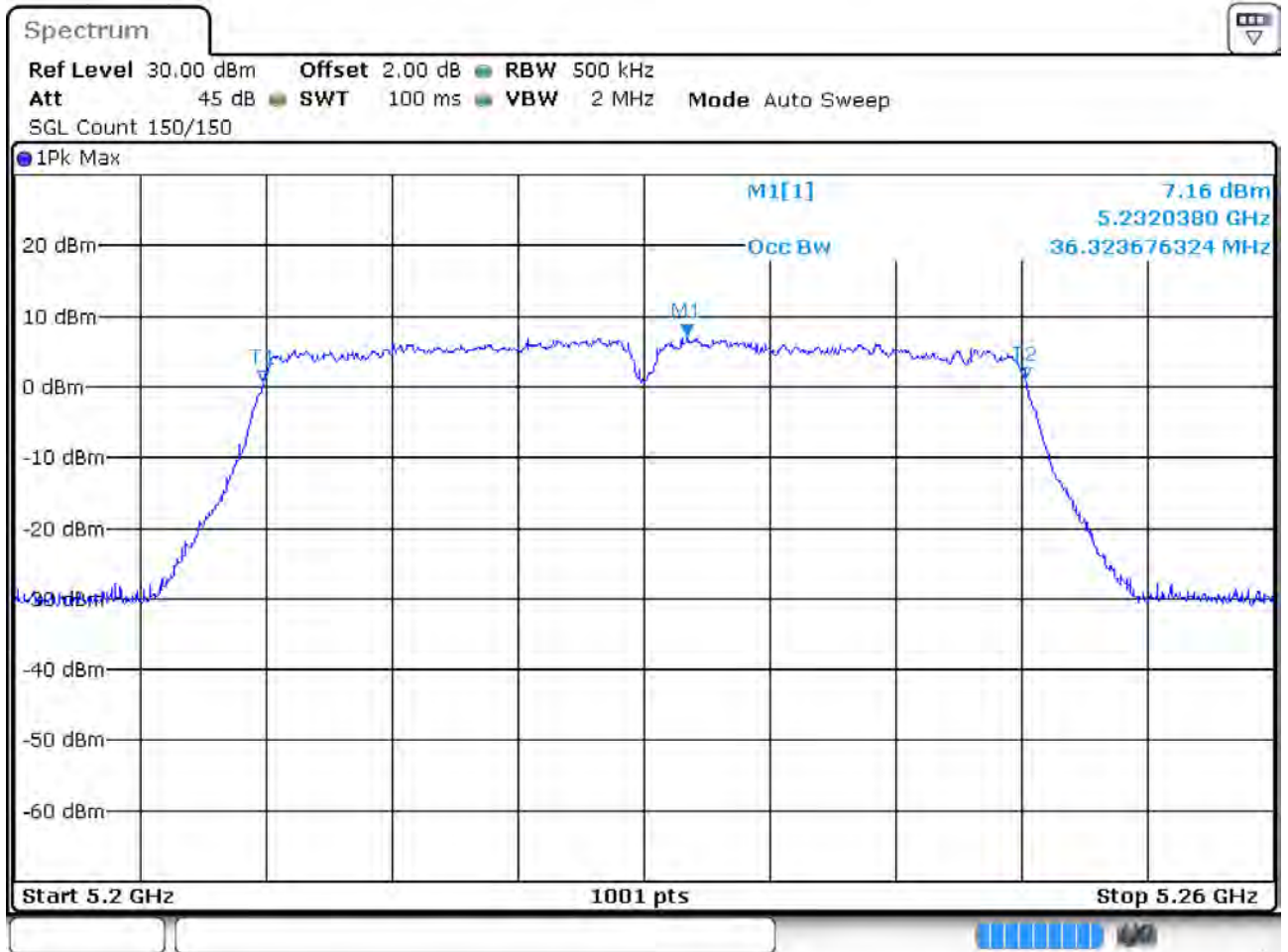
4.7.2.46 11AC40_38 ANT 1



Date: 21.AUG.2020 18:17:31



4.7.2.47 11AC40_46 ANT 1



Date: 21.AUG.2020 18:19:03



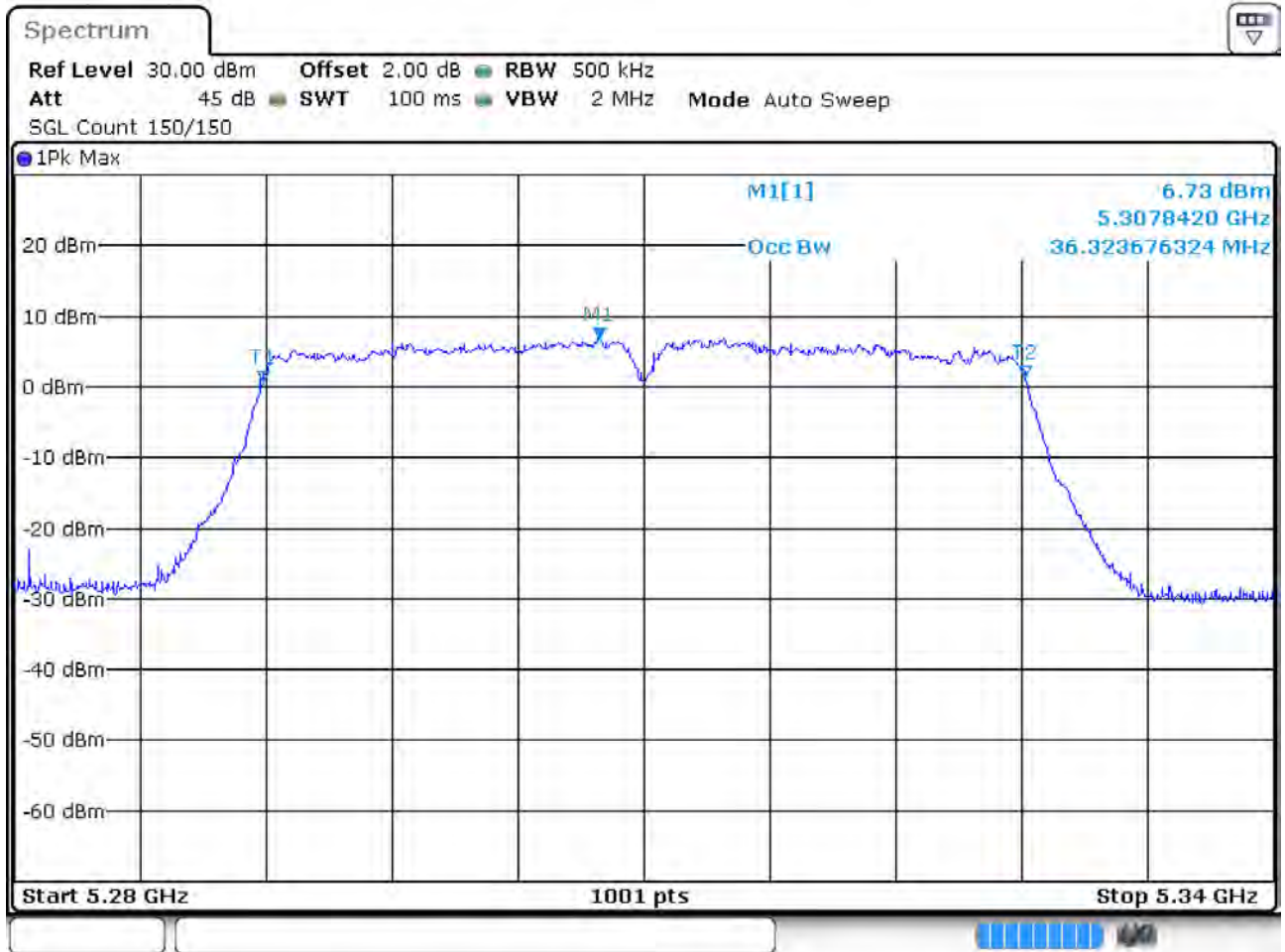
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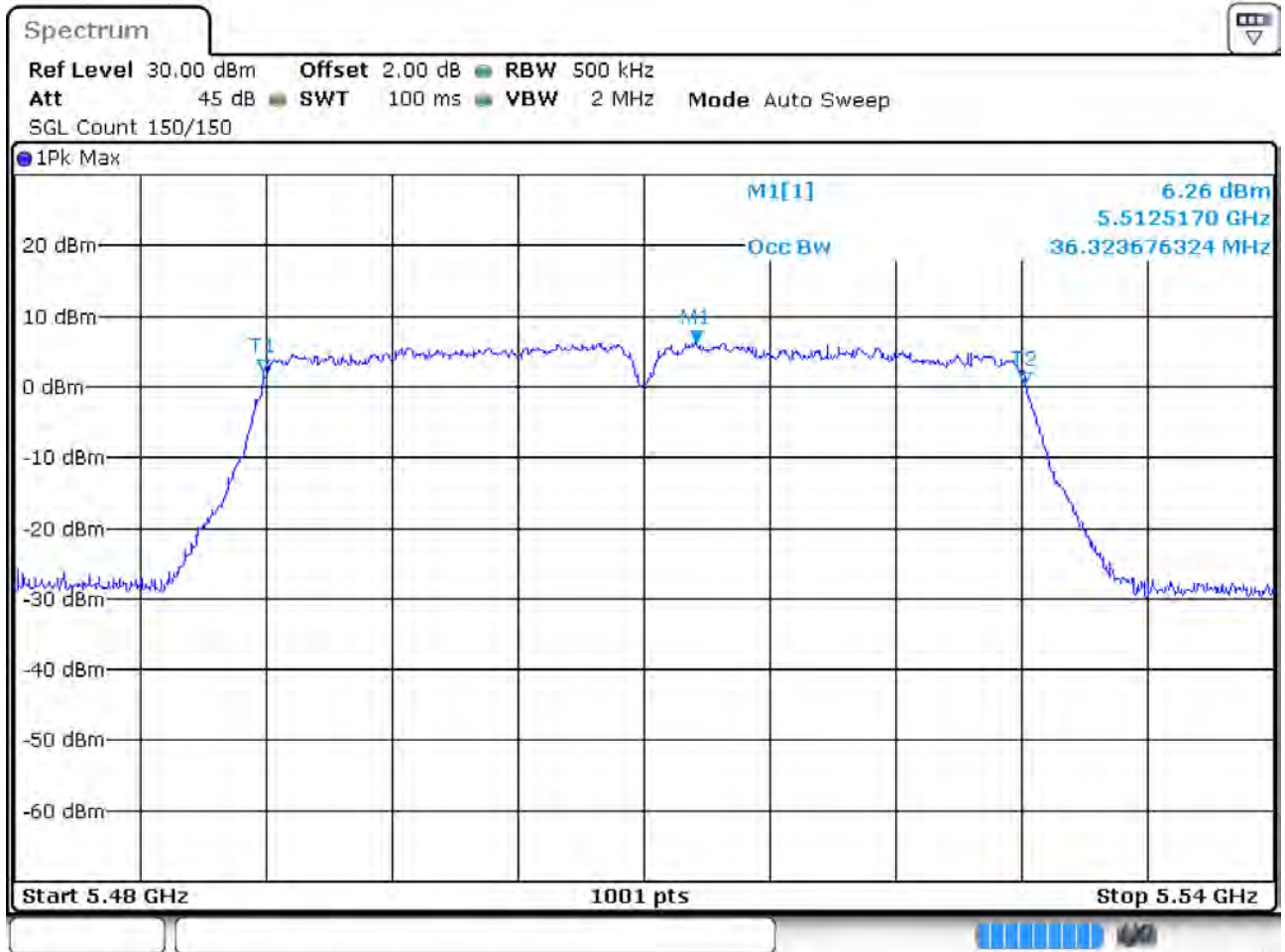
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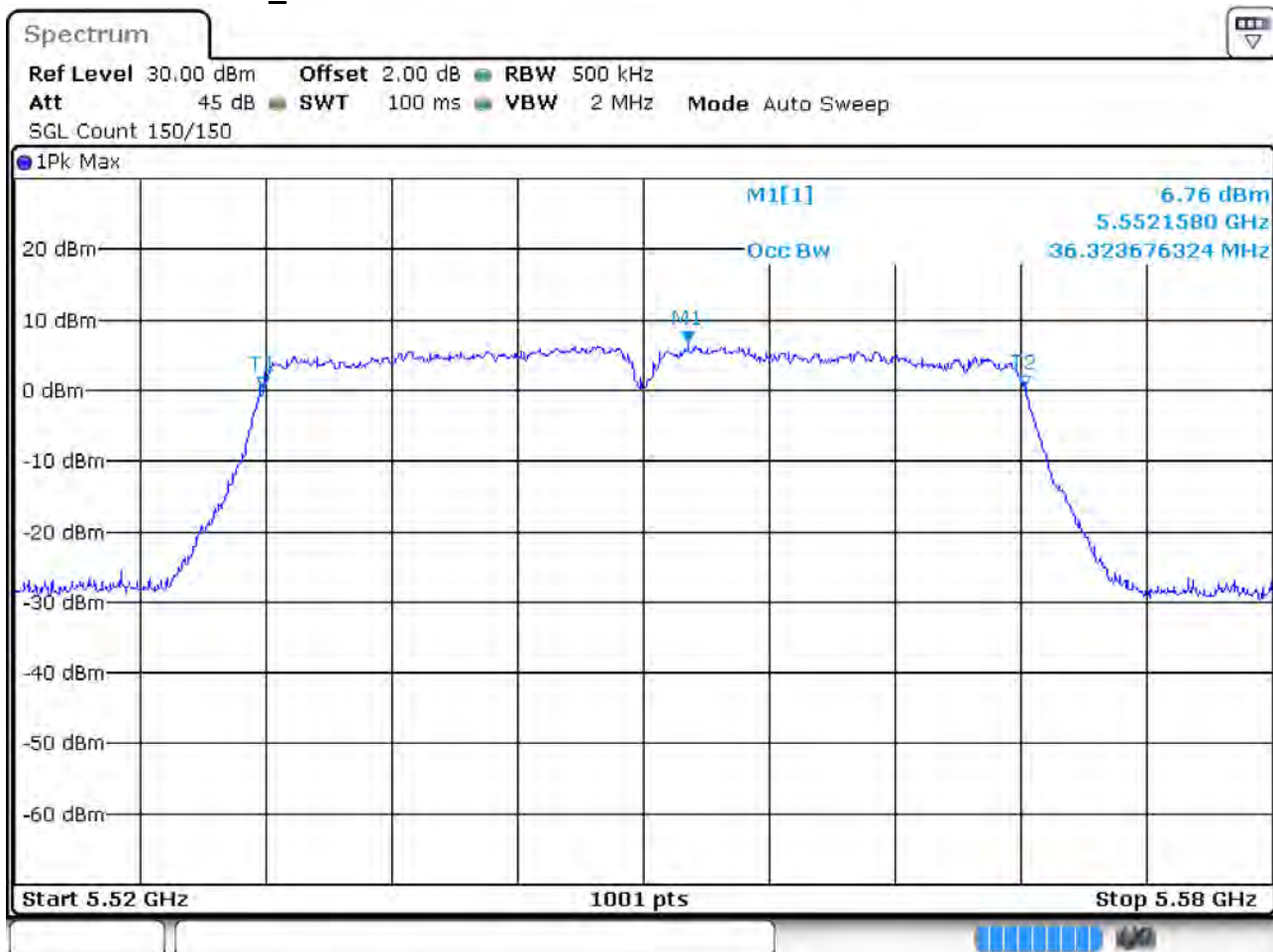
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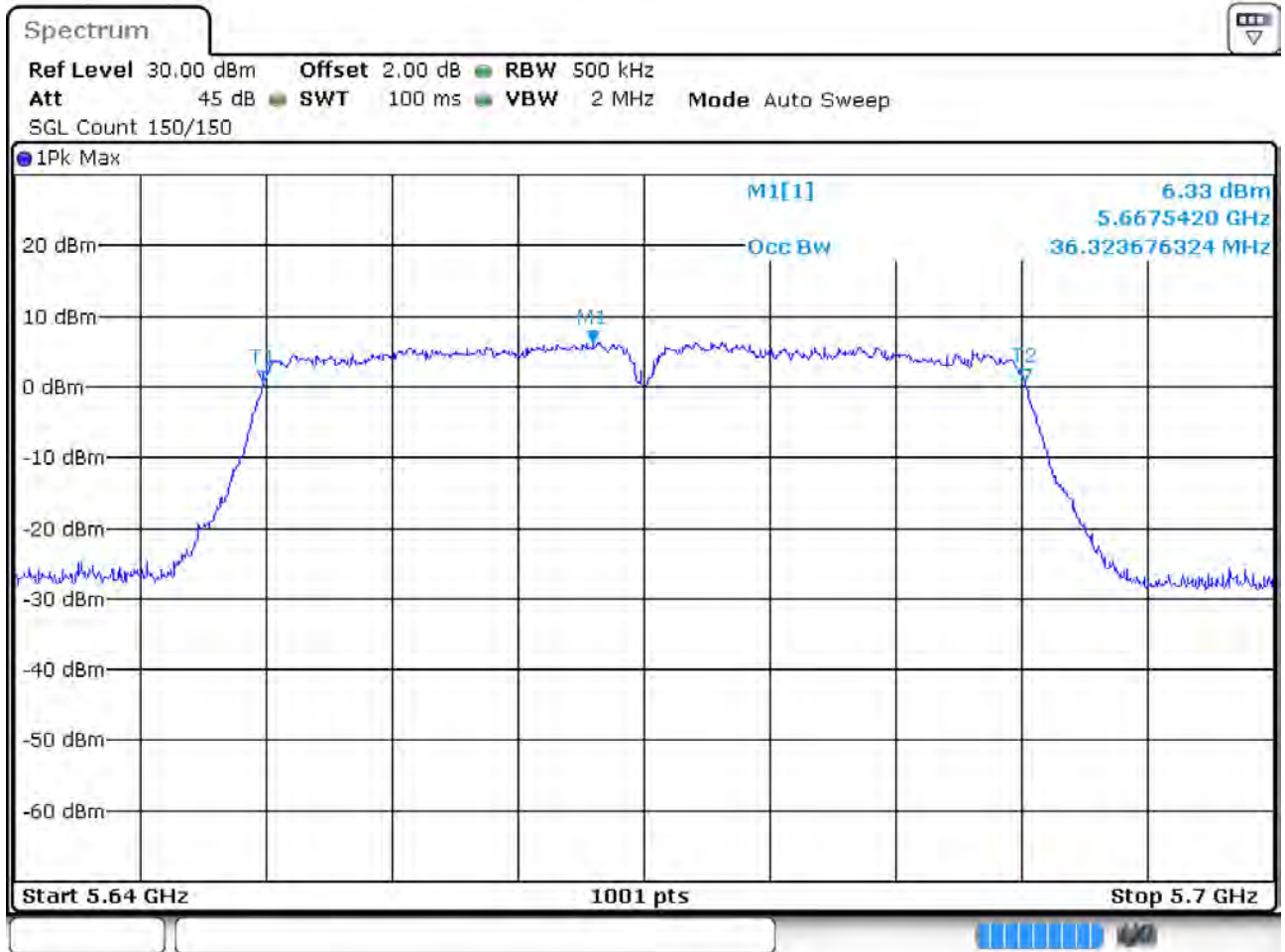
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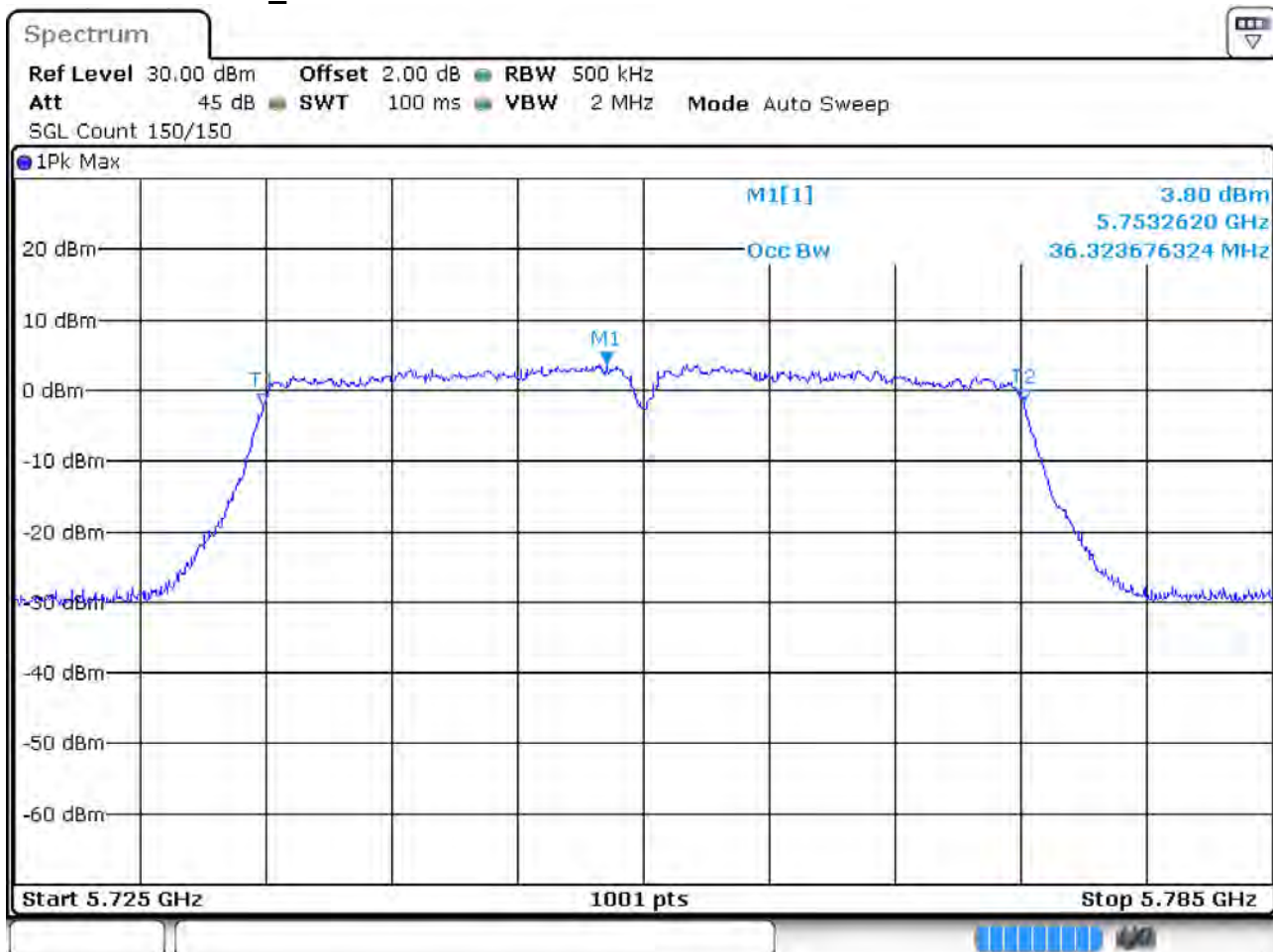
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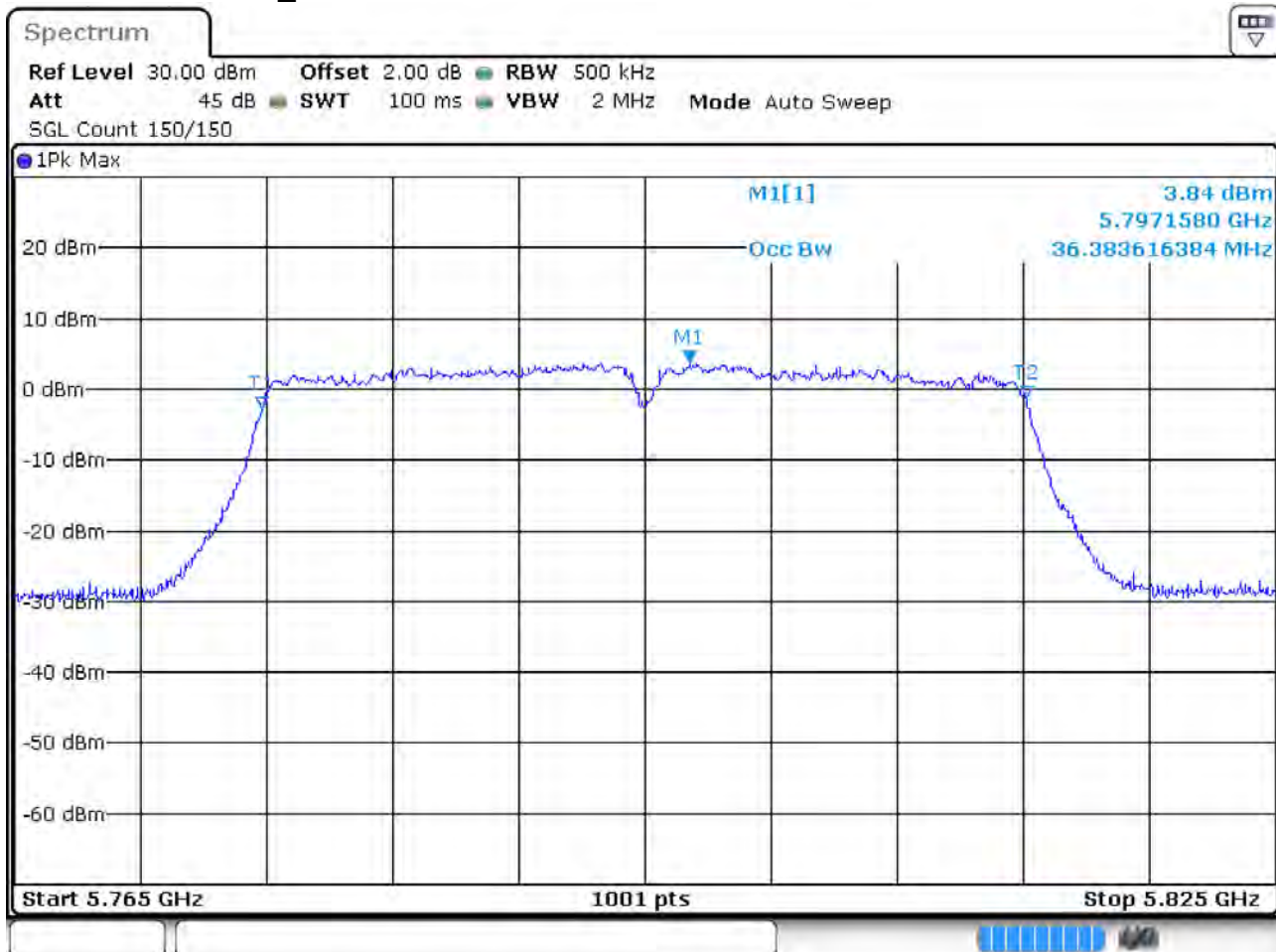
4.7.2.53 11AC40_151 ANT 1



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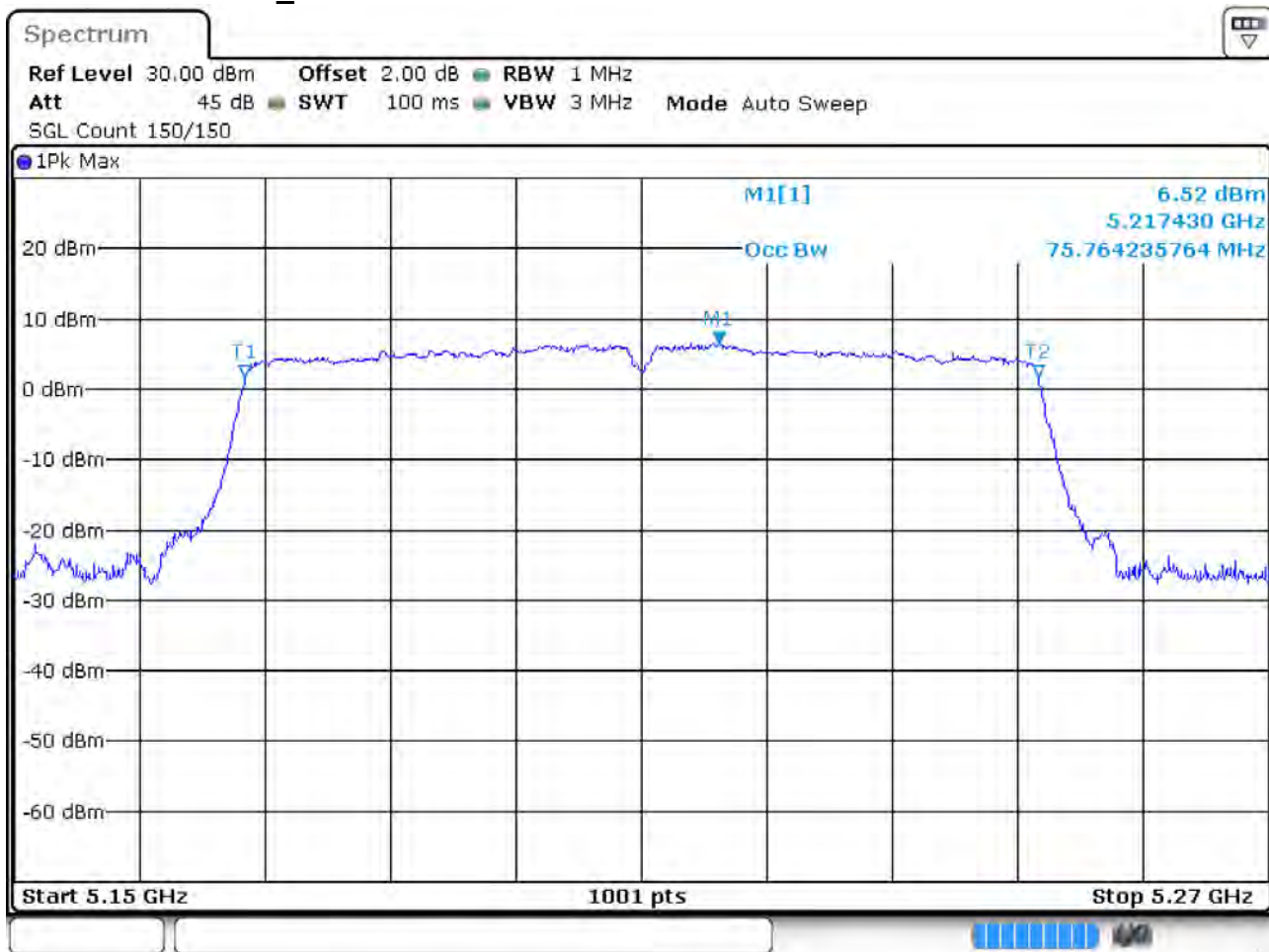
4.7.2.54 11AC40_159 ANT 1



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4.7.2.55 11AC80_42 ANT 1



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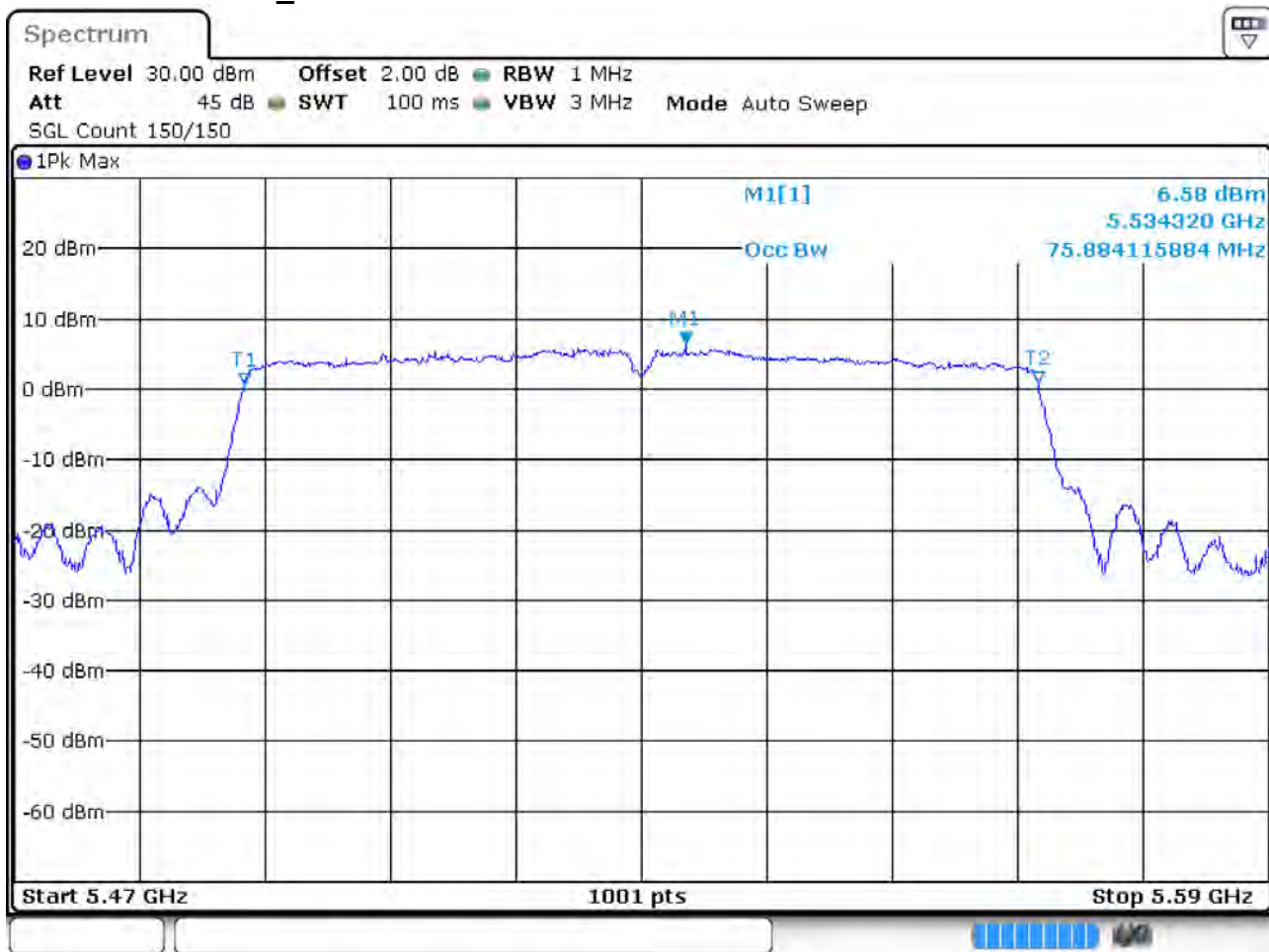
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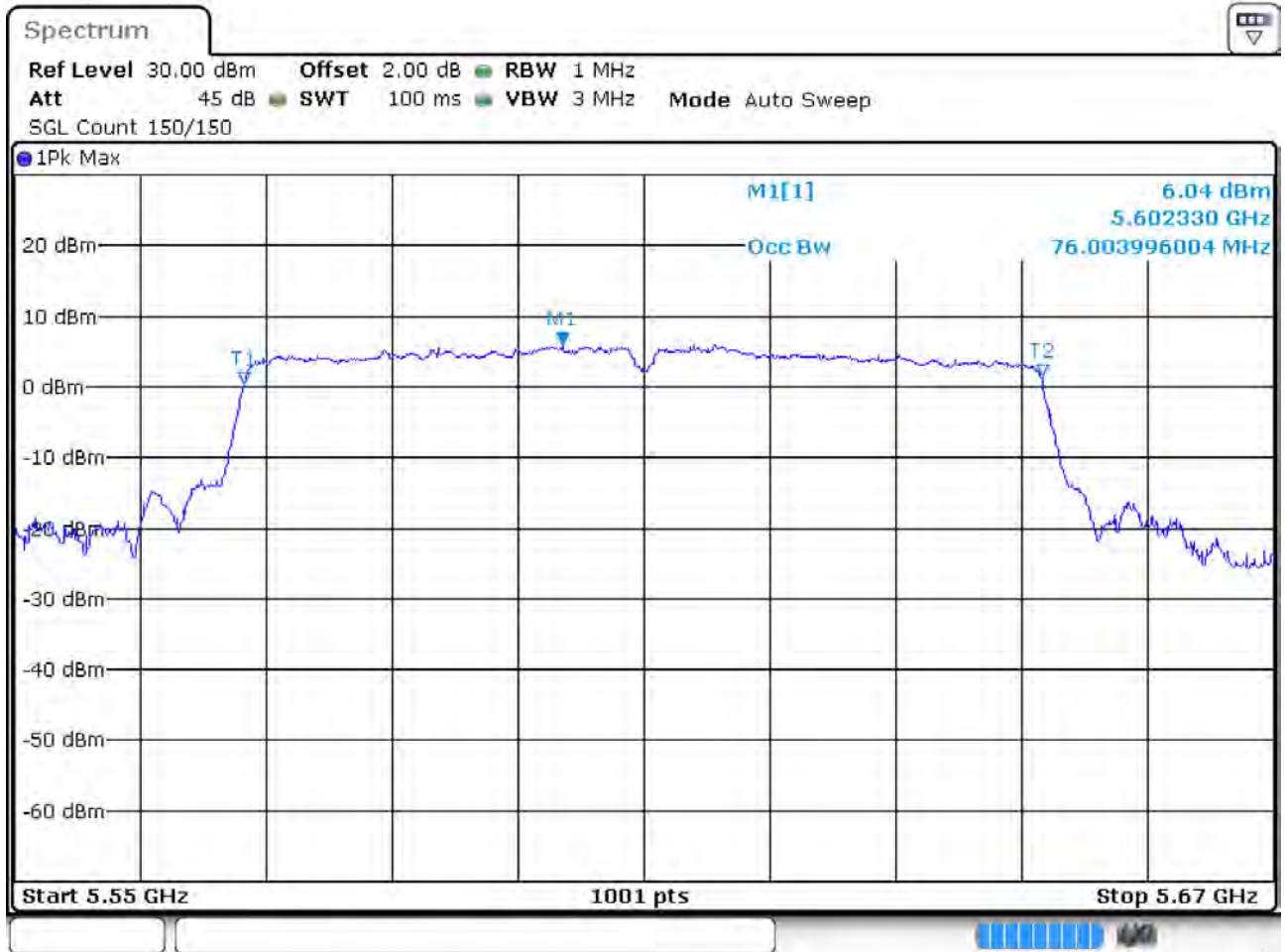
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4.7.2.58 11AC80_122 ANT 1



Date: 21.AUG.2020 18:57:27

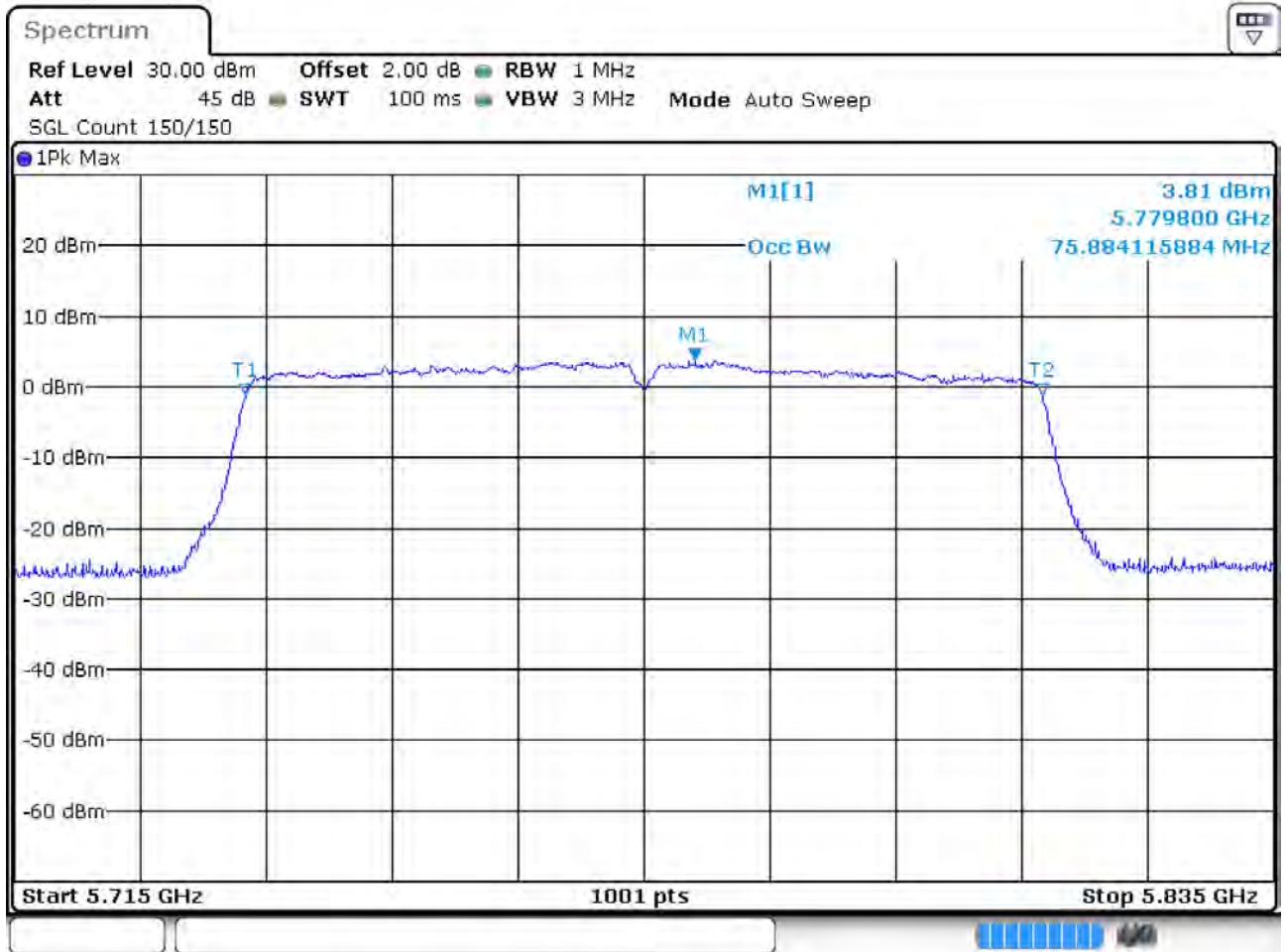


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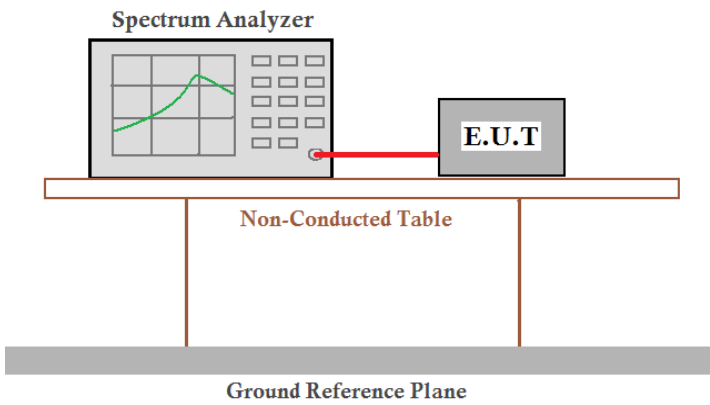
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4.7.2.59 11AC80_155 ANT 1



Date: 21.AUG.2020 18:59:49

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:	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). Only the worst case is recorded in the report.	
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	7.24	PASS
	44	5220	ANT 1	7.04	PASS
	48	5240	ANT 1	6.83	PASS
	52	5260	ANT 1	6.58	PASS
	60	5300	ANT 1	6.42	PASS
	64	5320	ANT 1	6.4	PASS
	100	5500	ANT 1	5.85	PASS
	116	5580	ANT 1	5.75	PASS
	140	5700	ANT 1	6.2	PASS
	149	5745	ANT 1	4.38	PASS
	157	5785	ANT 1	4.76	PASS
	165	5825	ANT 1	4.97	PASS
11N20	36	5180	ANT 1	6.05	PASS
	44	5220	ANT 1	5.92	PASS
	48	5240	ANT 1	5.96	PASS
	52	5260	ANT 1	5.79	PASS
	60	5300	ANT 1	5.57	PASS
	64	5320	ANT 1	5.51	PASS
	100	5500	ANT 1	5.04	PASS
	116	5580	ANT 1	4.98	PASS
	140	5700	ANT 1	5.46	PASS
	149	5745	ANT 1	3.47	PASS
	157	5785	ANT 1	3.83	PASS
	165	5825	ANT 1	4.06	PASS
11N40	38	5190	ANT 1	3.85	PASS
	46	5230	ANT 1	3.67	PASS
	54	5270	ANT 1	3.11	PASS
	62	5310	ANT 1	3.03	PASS
	102	5510	ANT 1	2.48	PASS
	110	5550	ANT 1	2.59	PASS

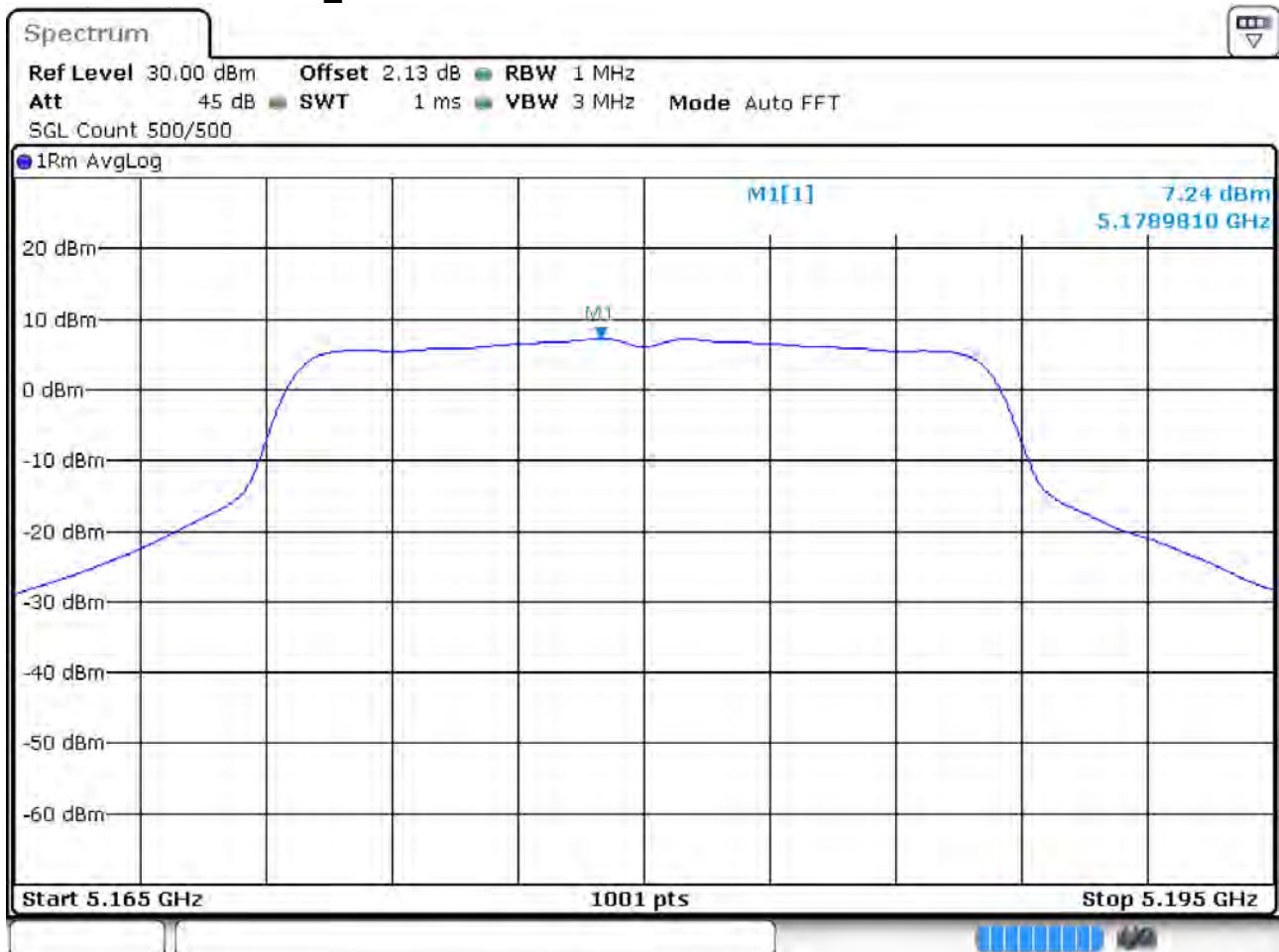


	134	5670	ANT 1	2.71	PASS
	151	5755	ANT 1	0.36	PASS
	159	5795	ANT 1	0.62	PASS
11AC20	36	5180	ANT 1	4.55	PASS
	44	5220	ANT 1	4.43	PASS
	48	5240	ANT 1	4.75	PASS
	52	5260	ANT 1	4.49	PASS
	60	5300	ANT 1	4.21	PASS
	64	5320	ANT 1	4.09	PASS
	100	5500	ANT 1	4.01	PASS
	116	5580	ANT 1	3.94	PASS
	140	5700	ANT 1	4.55	PASS
	149	5745	ANT 1	3.03	PASS
	157	5745	ANT 1	3.39	PASS
	165	5825	ANT 1	3.64	PASS
11AC40	38	5190	ANT 1	2.04	PASS
	46	5230	ANT 1	1.87	PASS
	54	5270	ANT 1	1.97	PASS
	62	5310	ANT 1	1.81	PASS
	102	5510	ANT 1	1.22	PASS
	110	5550	ANT 1	1.29	PASS
	134	5670	ANT 1	1.37	PASS
	151	5755	ANT 1	-0.14	PASS
	159	5795	ANT 1	0.2	PASS
11AC80	42	5210	ANT 1	-2.39	PASS
	58	5290	ANT 1	-2.44	PASS
	106	5530	ANT 1	-3.13	PASS
	122	5610	ANT 1	-2.97	PASS
	155	5775	ANT 1	-4.43	PASS



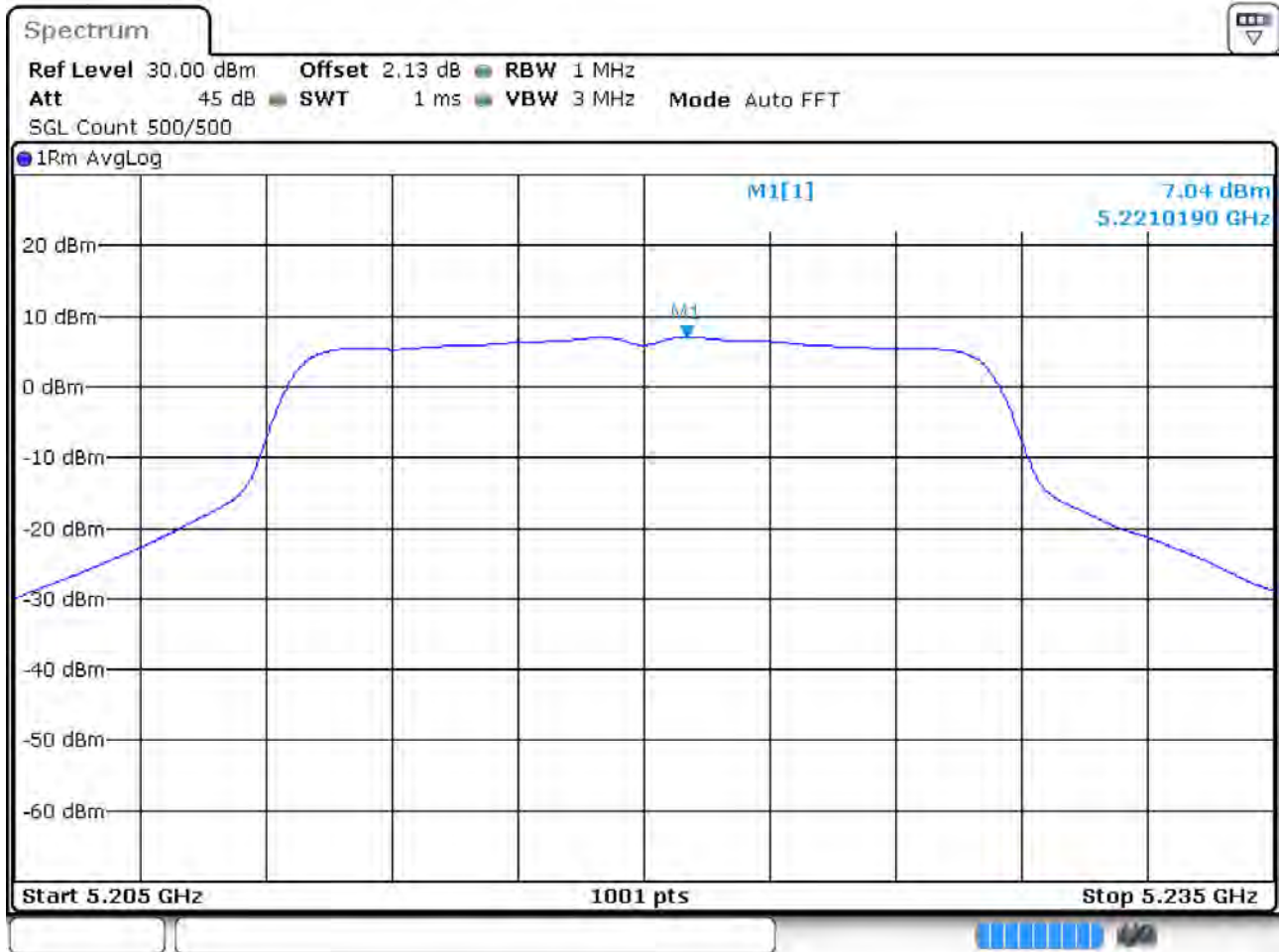
4.8.2 Test plots For Power Density

4.8.2.1 11A20_36 ANT 1



Date: 21.AUG.2020 16:29:18

4.8.2.2 11A20_44 ANT 1



Date: 21.AUG.2020 16:30:42



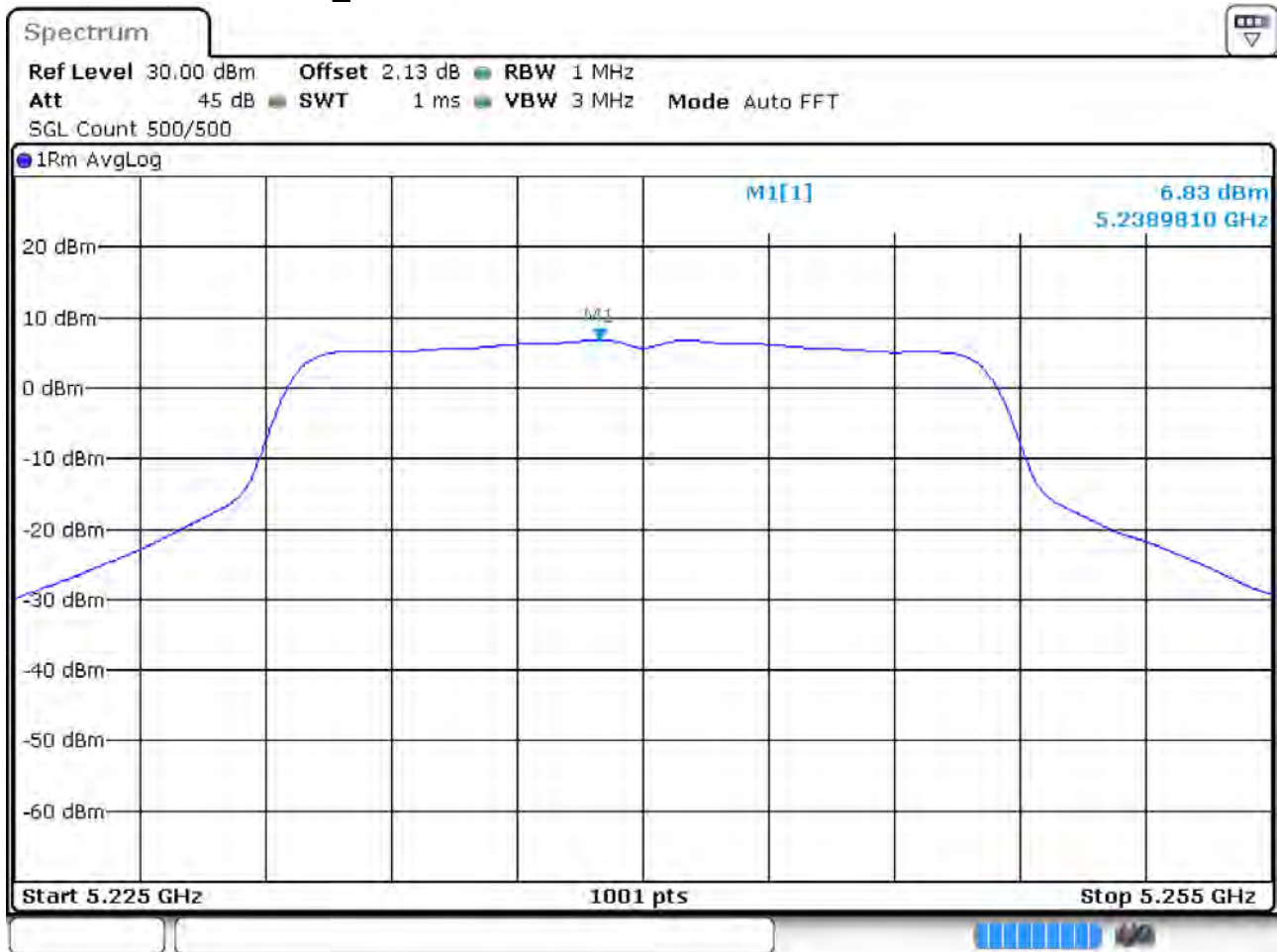
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4.8.2.3

11A20_48 ANT 1



Date: 21.AUG.2020 16:32:52



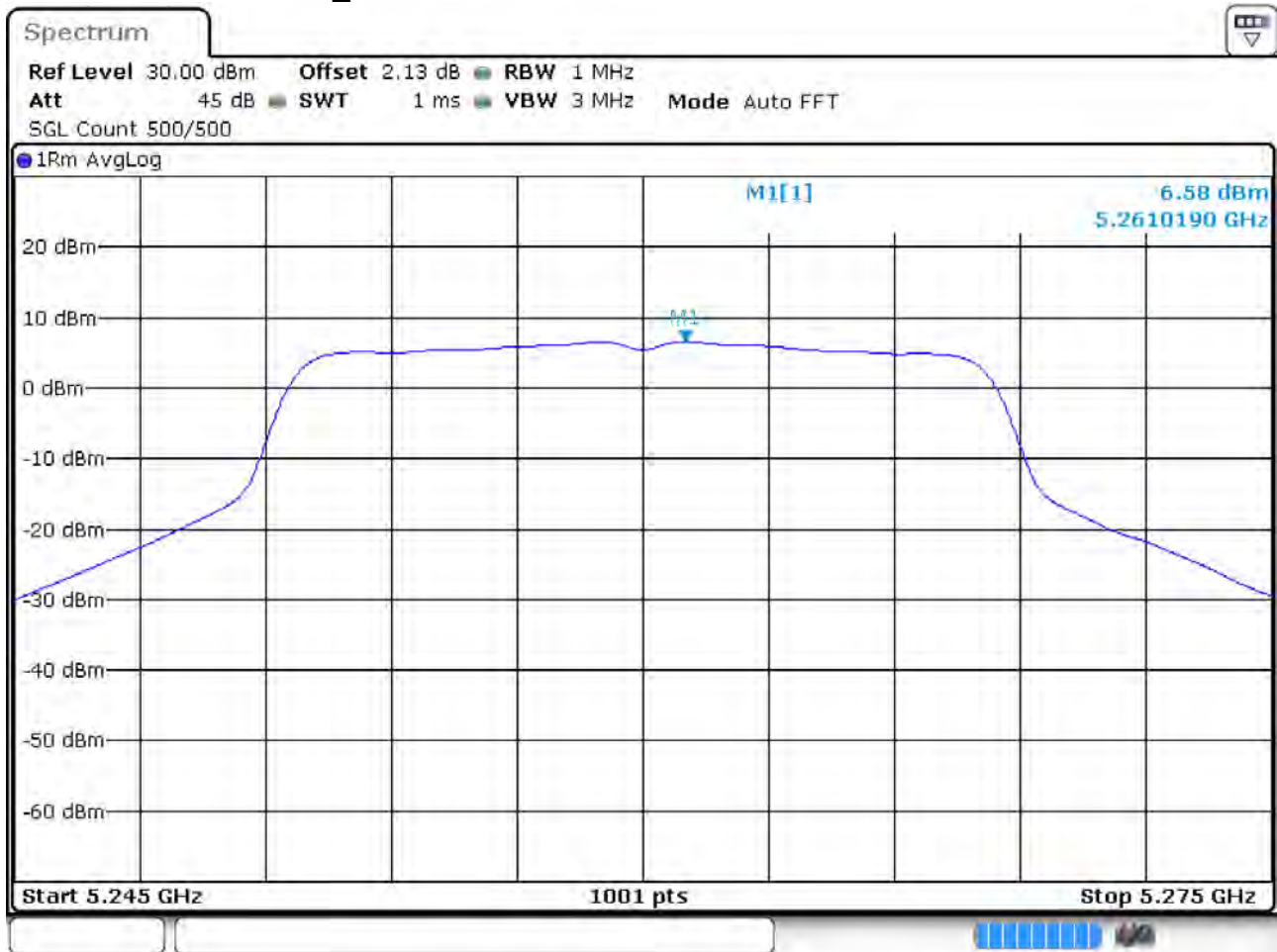
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4.8.2.4

11A20_52 ANT 1



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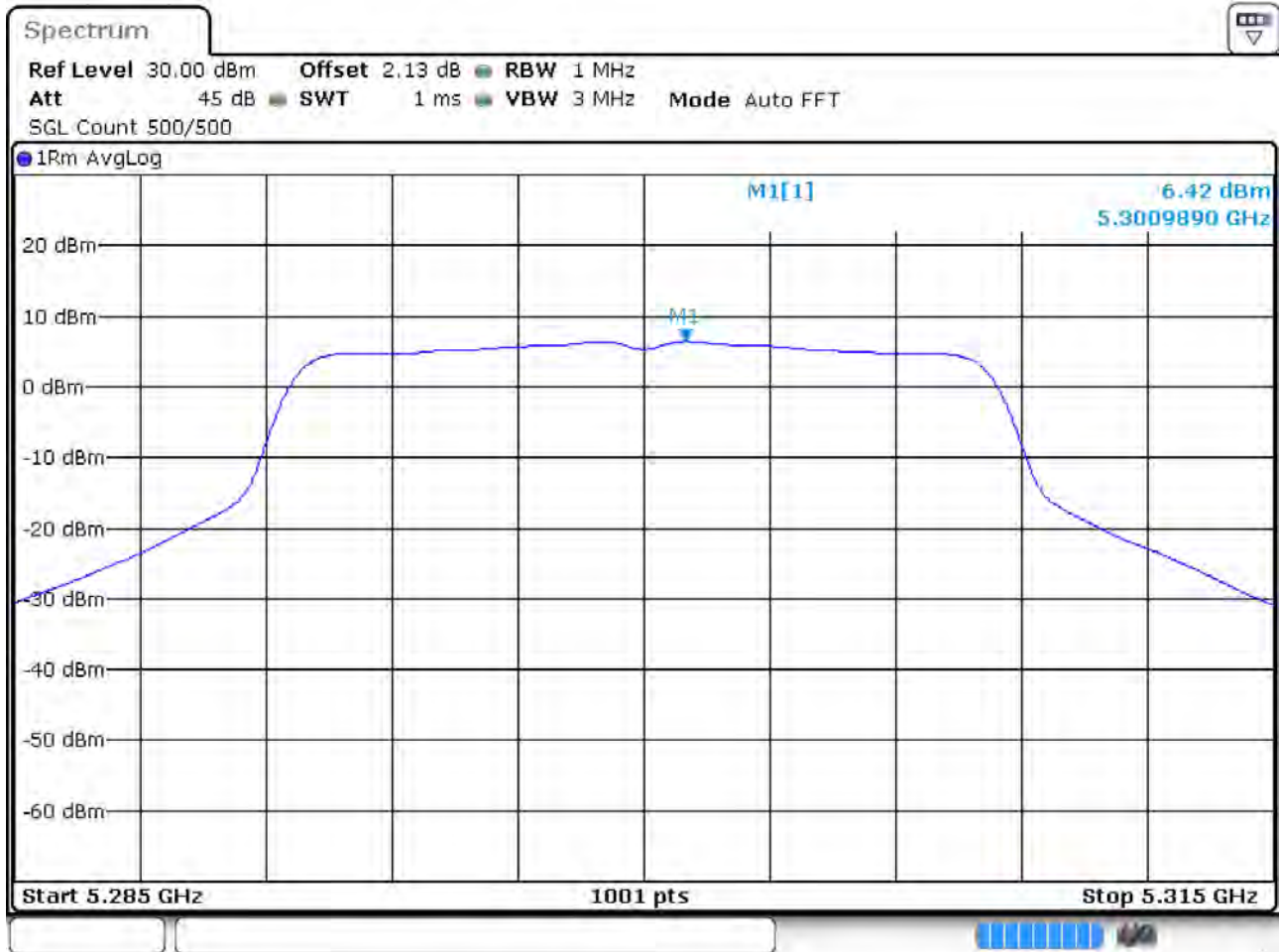


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4.8.2.5 11A20_60 ANT 1



Date: 21.AUG.2020 16:37:25



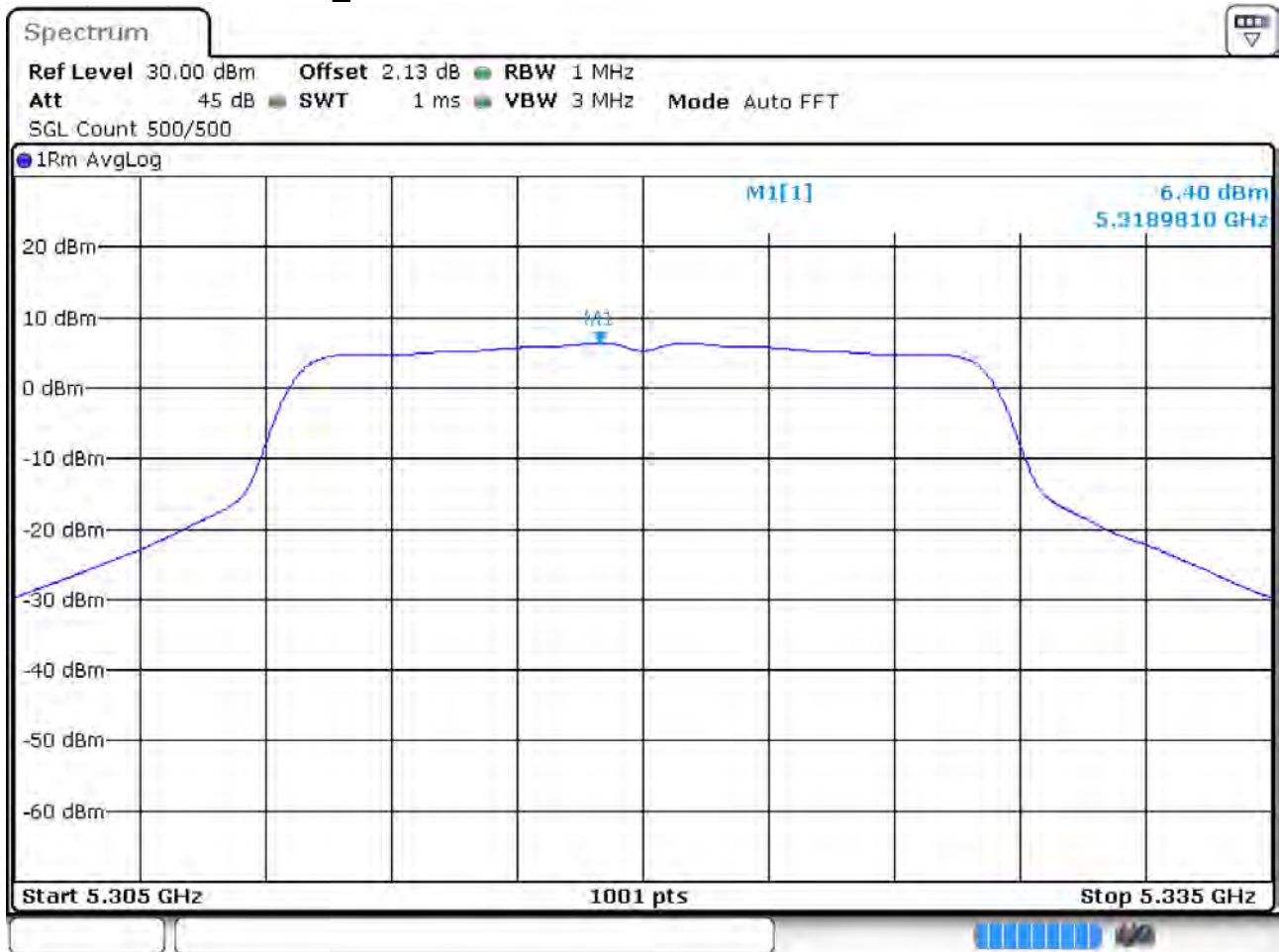
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4.8.2.6

11A20_64 ANT 1



Date: 21.AUG.2020 16:39:40

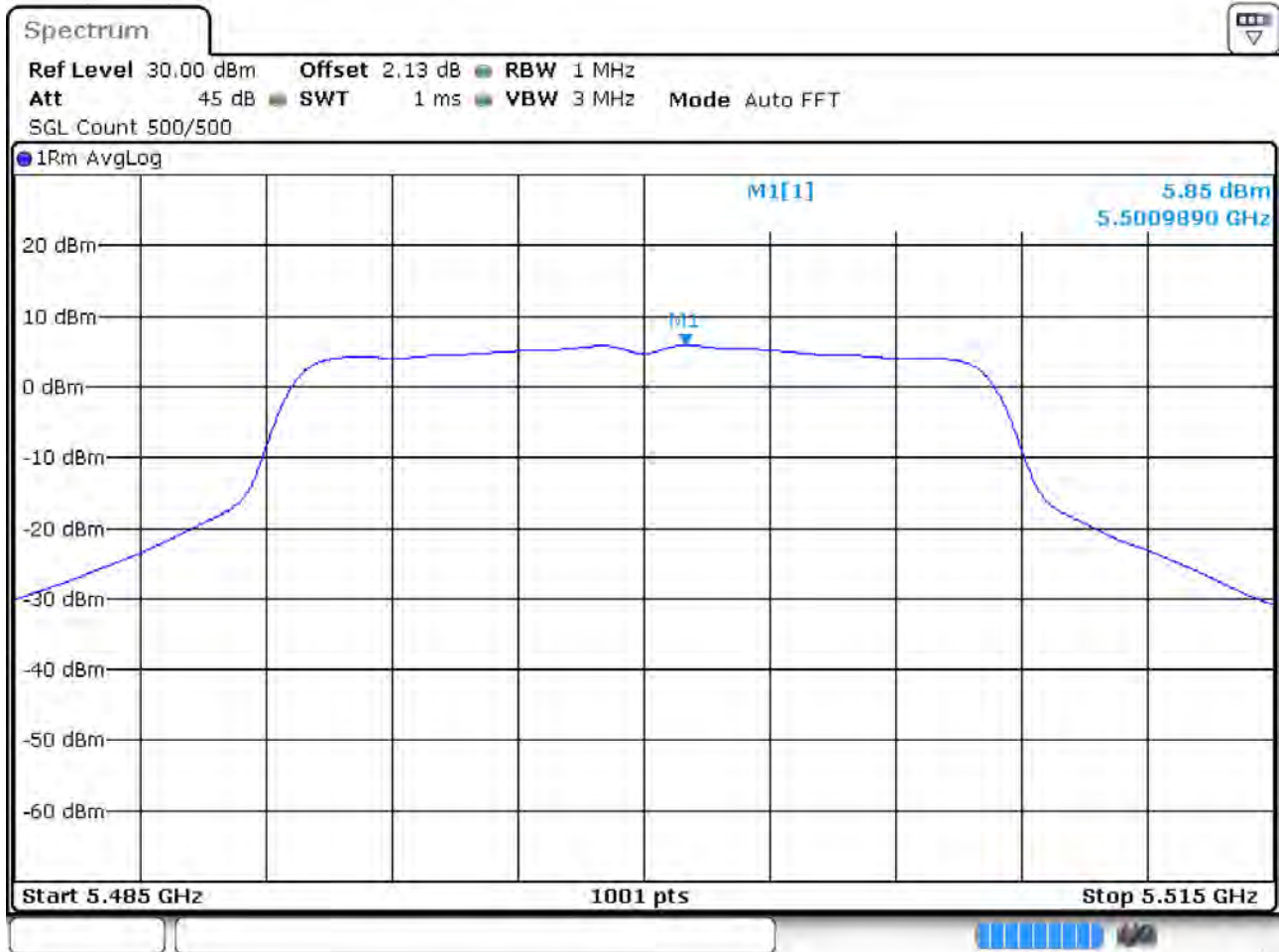


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4.8.2.7 11A20_100 ANT 1



Date: 21.AUG.2020 16:42:17

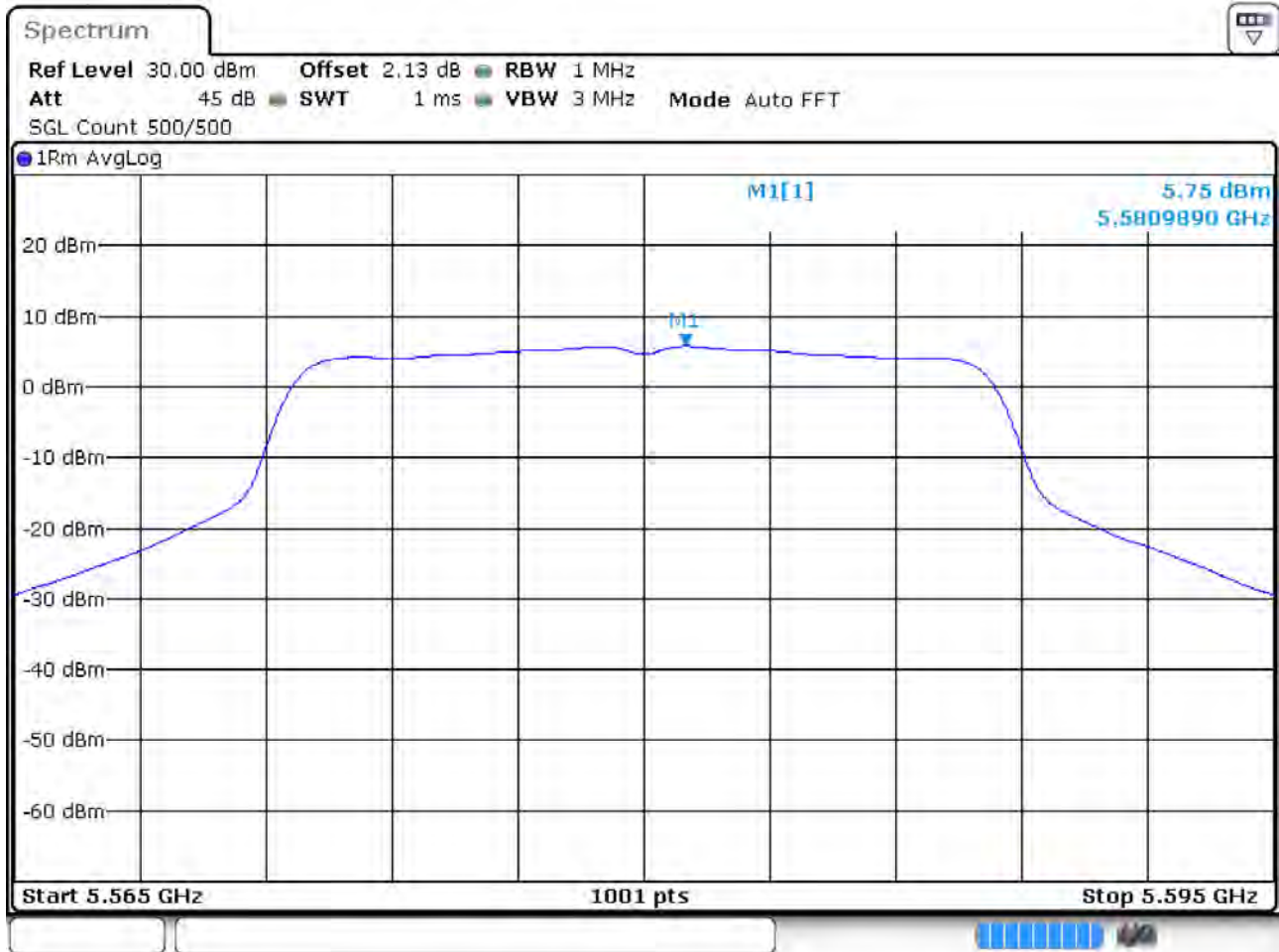


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4.8.2.8 11A20_116 ANT 1



Date: 21.AUG.2020 16:43:48

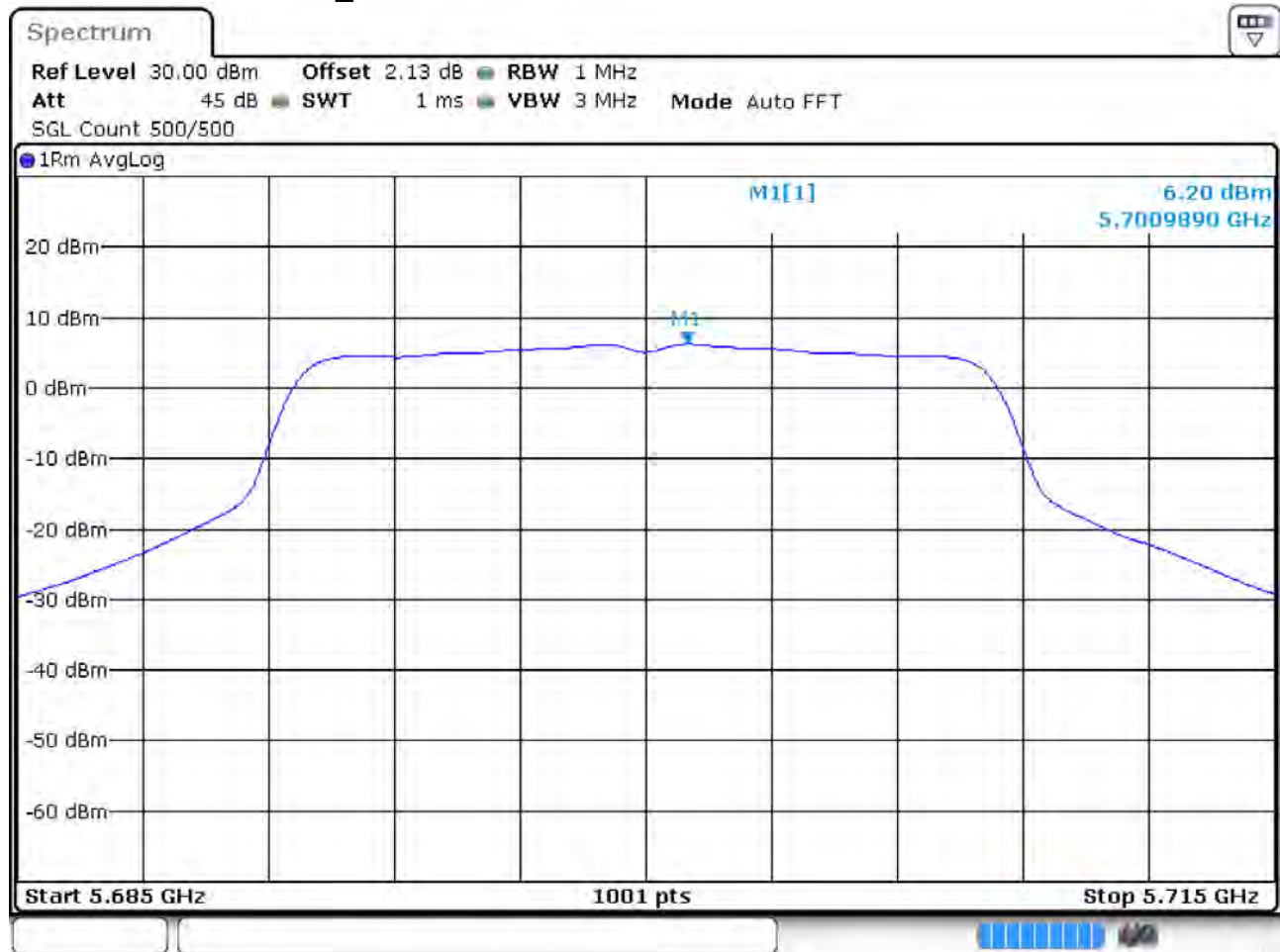


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4.8.2.9 11A20_140 ANT 1



Date: 21.AUG.2020 16:45:56

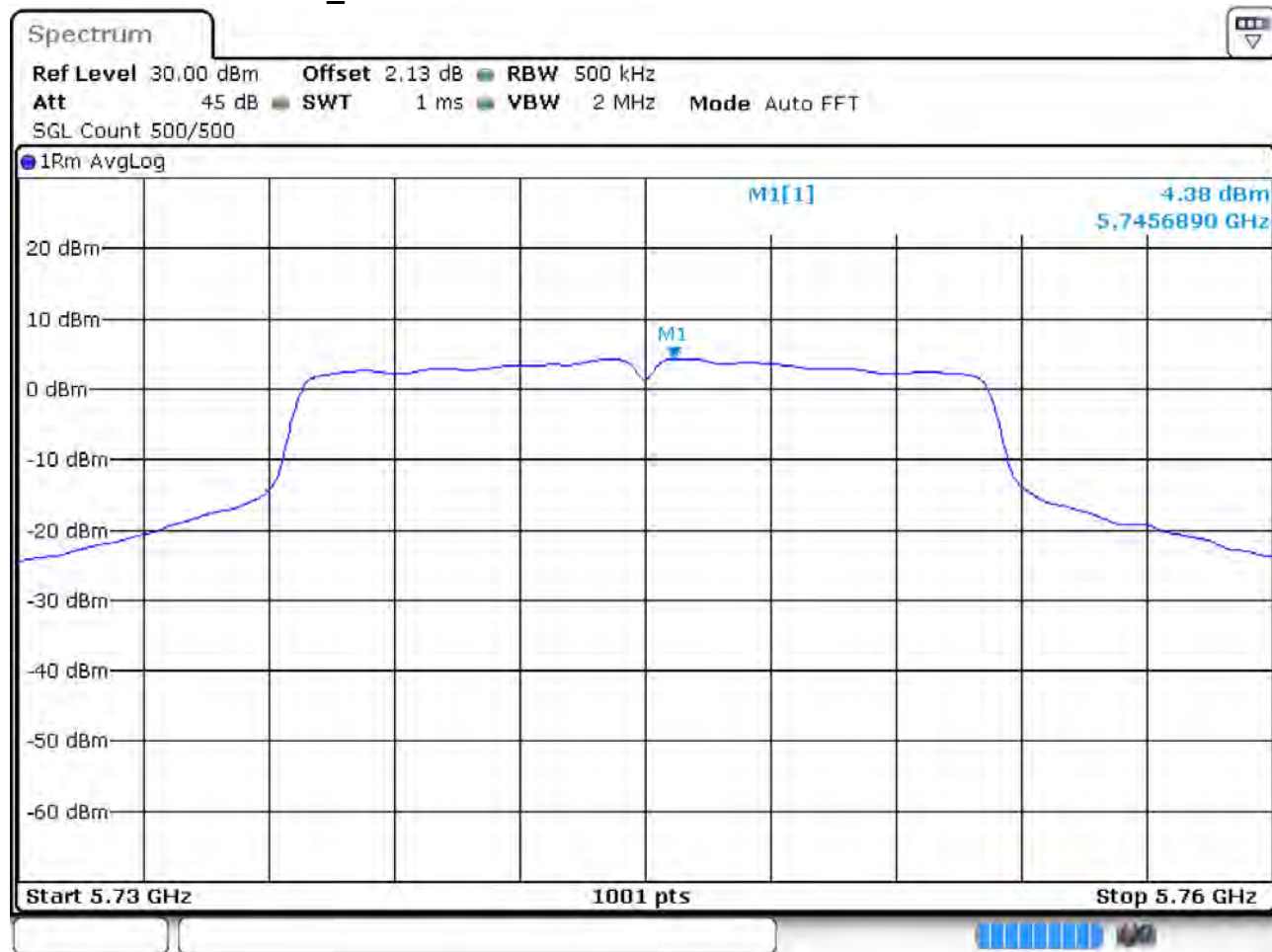


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4.8.2.10 11A20_149 ANT 1



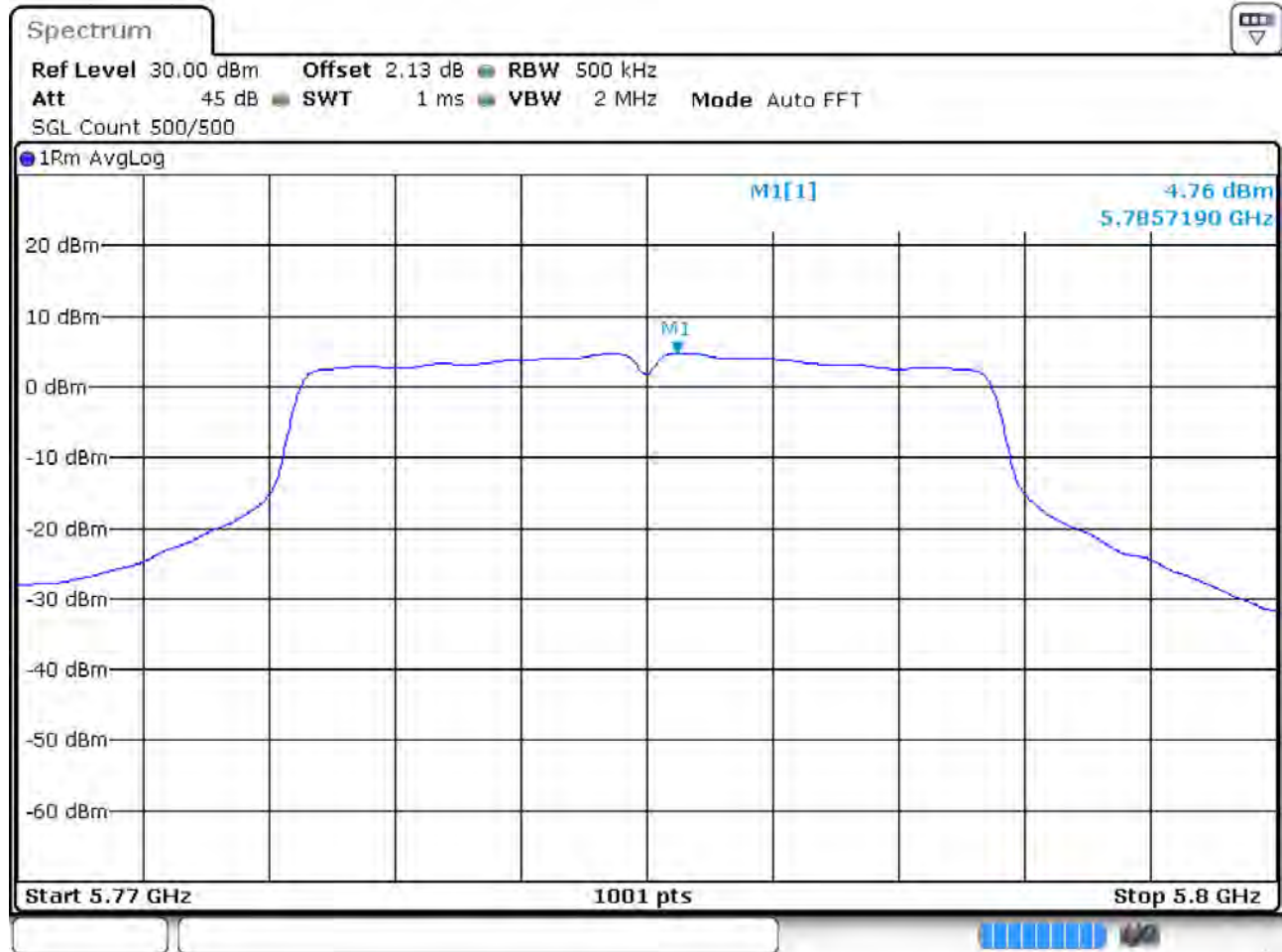
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4.8.2.11 11A20_157 ANT 1



Date: 1.SEP.2020 21:25:04

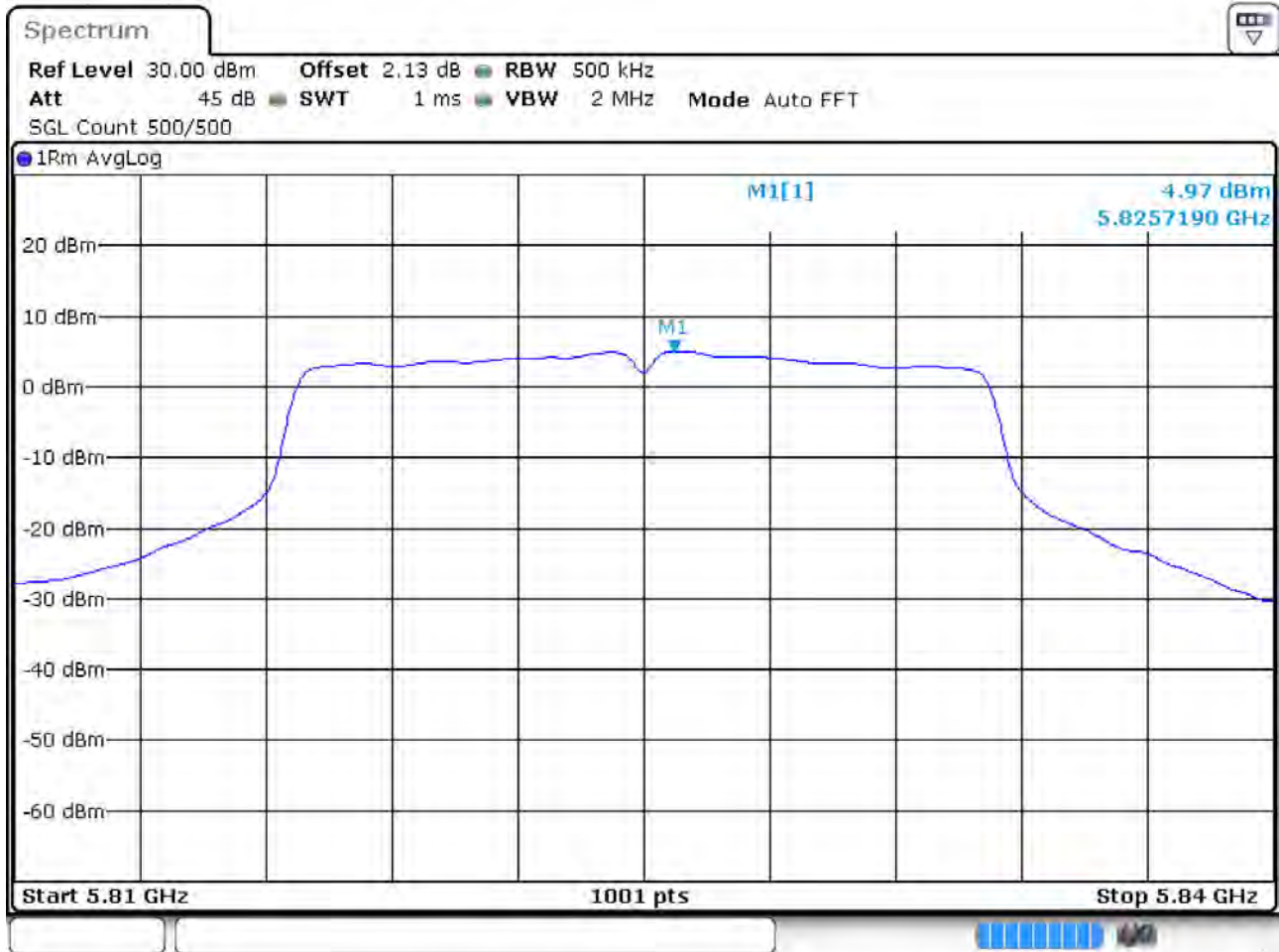


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4.8.2.12 11A20_165 ANT 1



Date: 1.SEP.2020 21:25:51

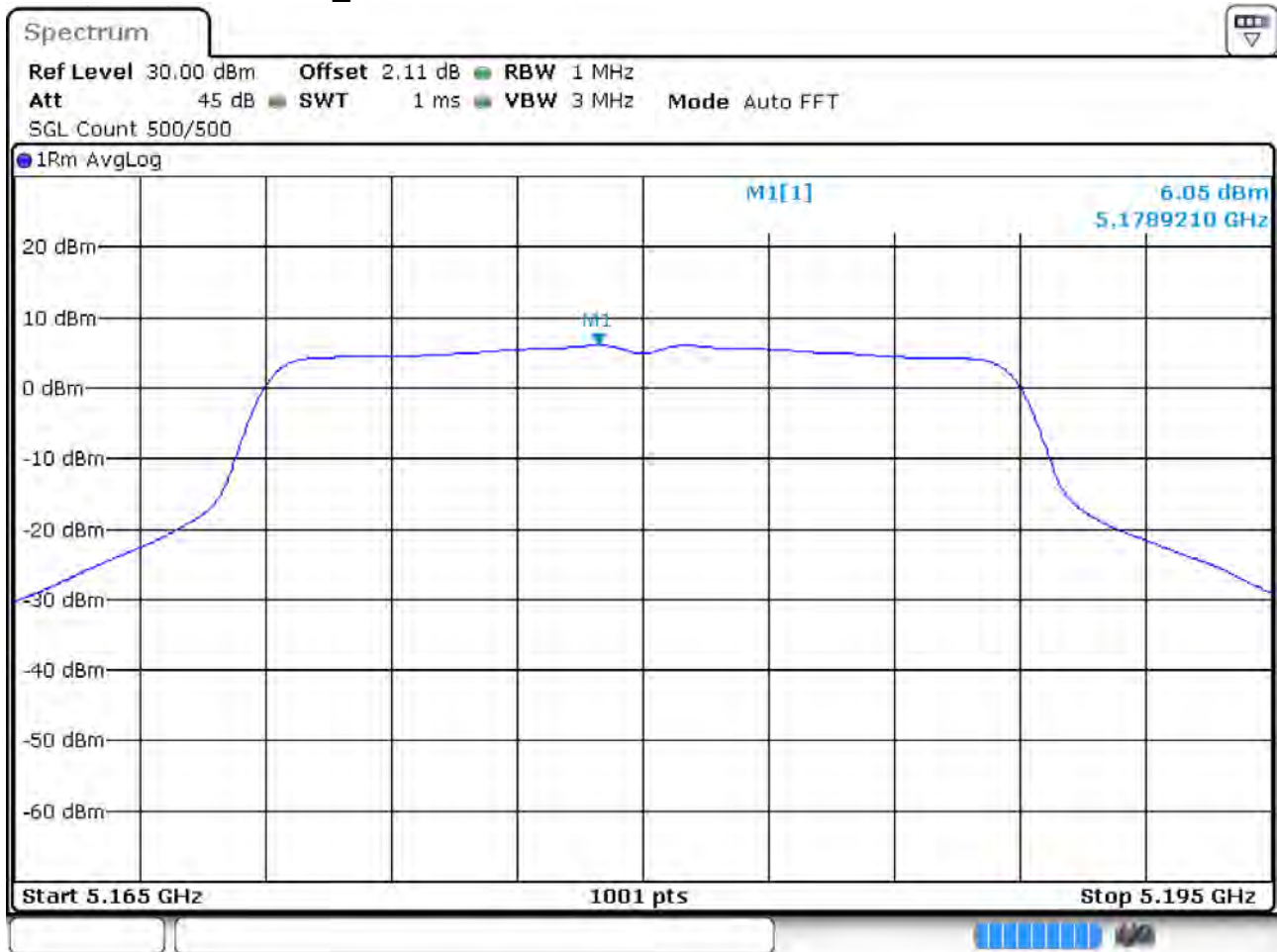


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4.8.2.13

11N20_36 ANT 1



Date: 21.AUG.2020 17:00:00

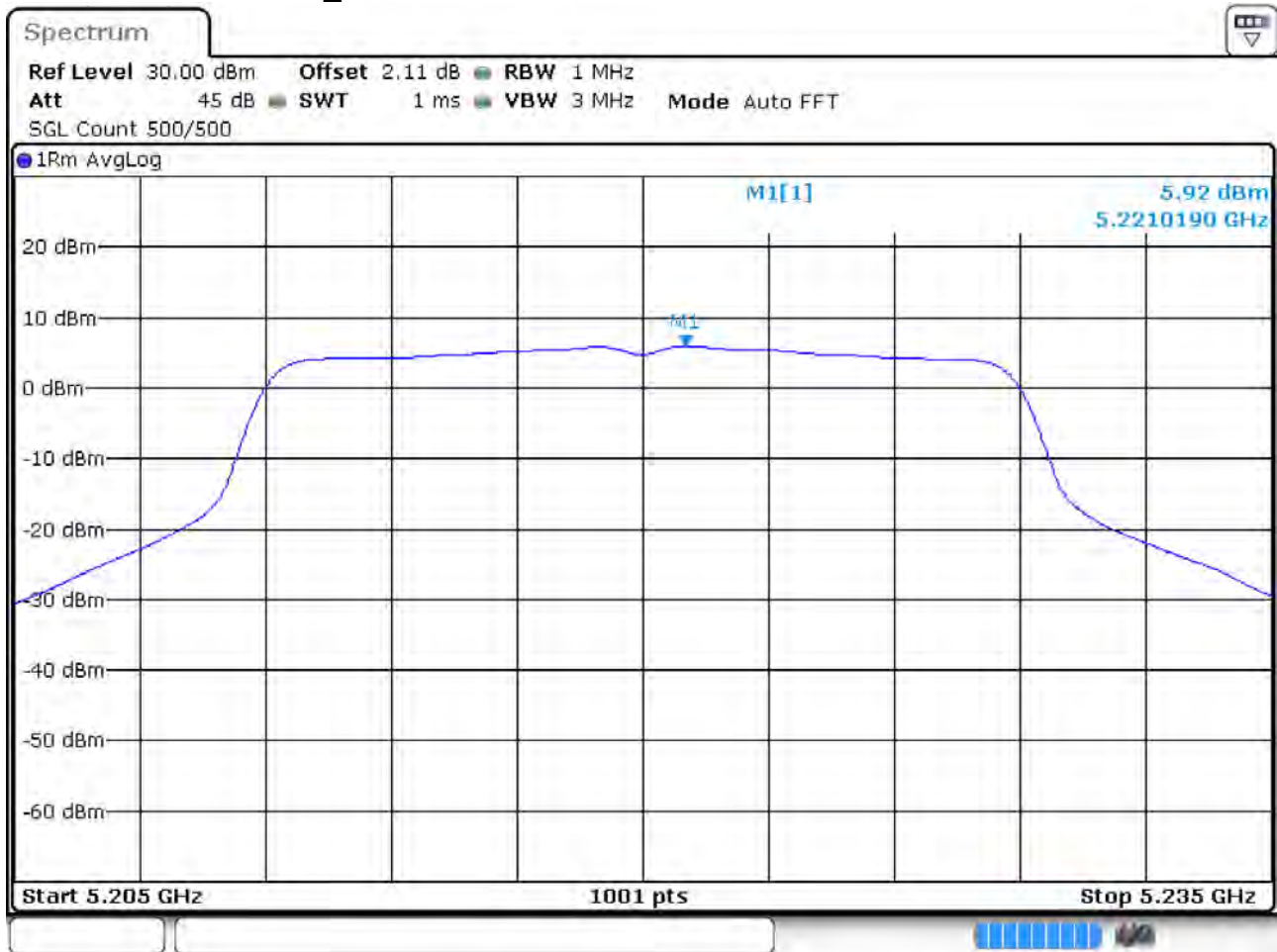


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4.8.2.14 11N20_44 ANT 1



Date: 21.AUG.2020 17:01:39



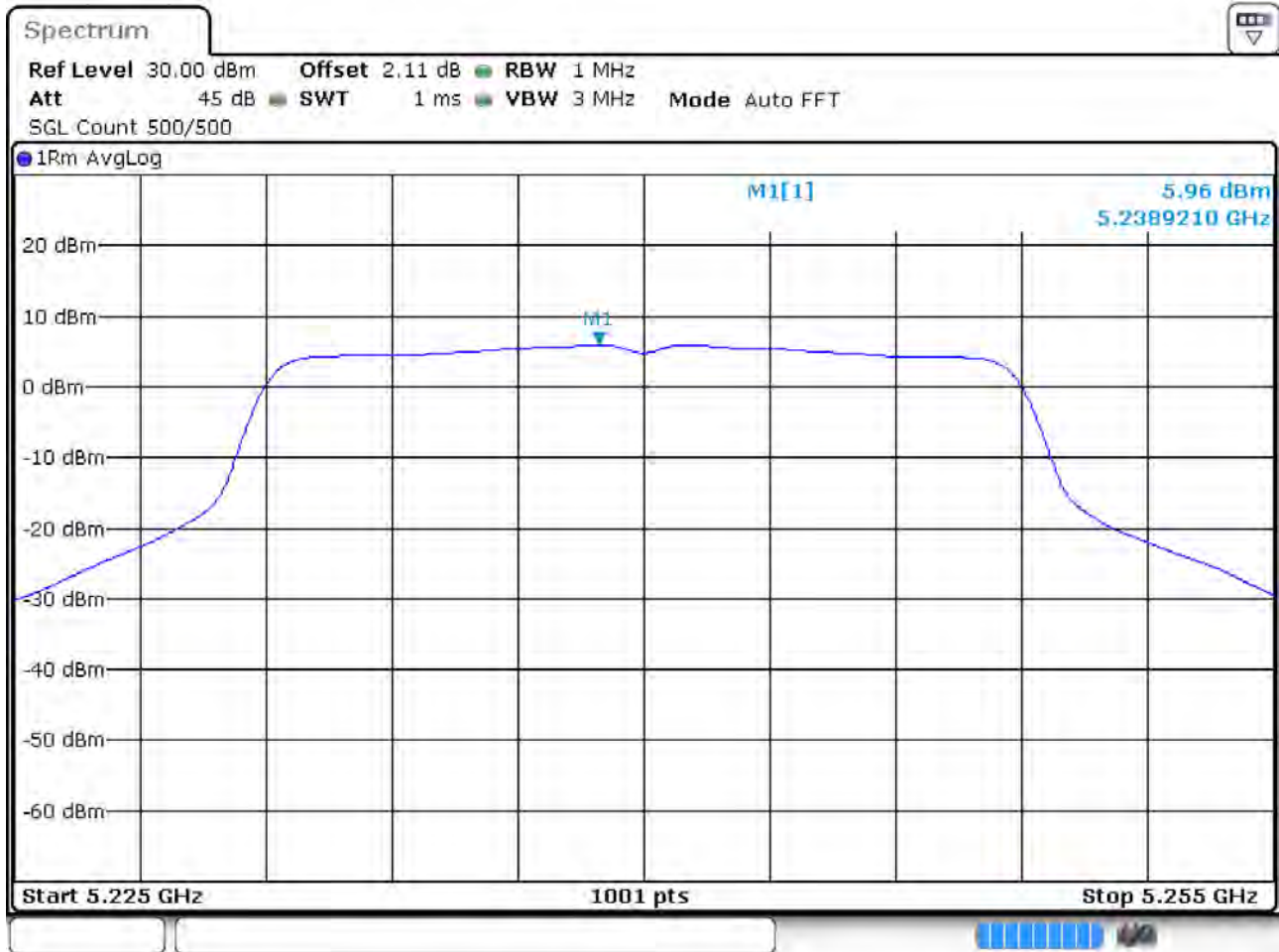
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4.8.2.15

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Date: 21.AUG.2020 17:03:22



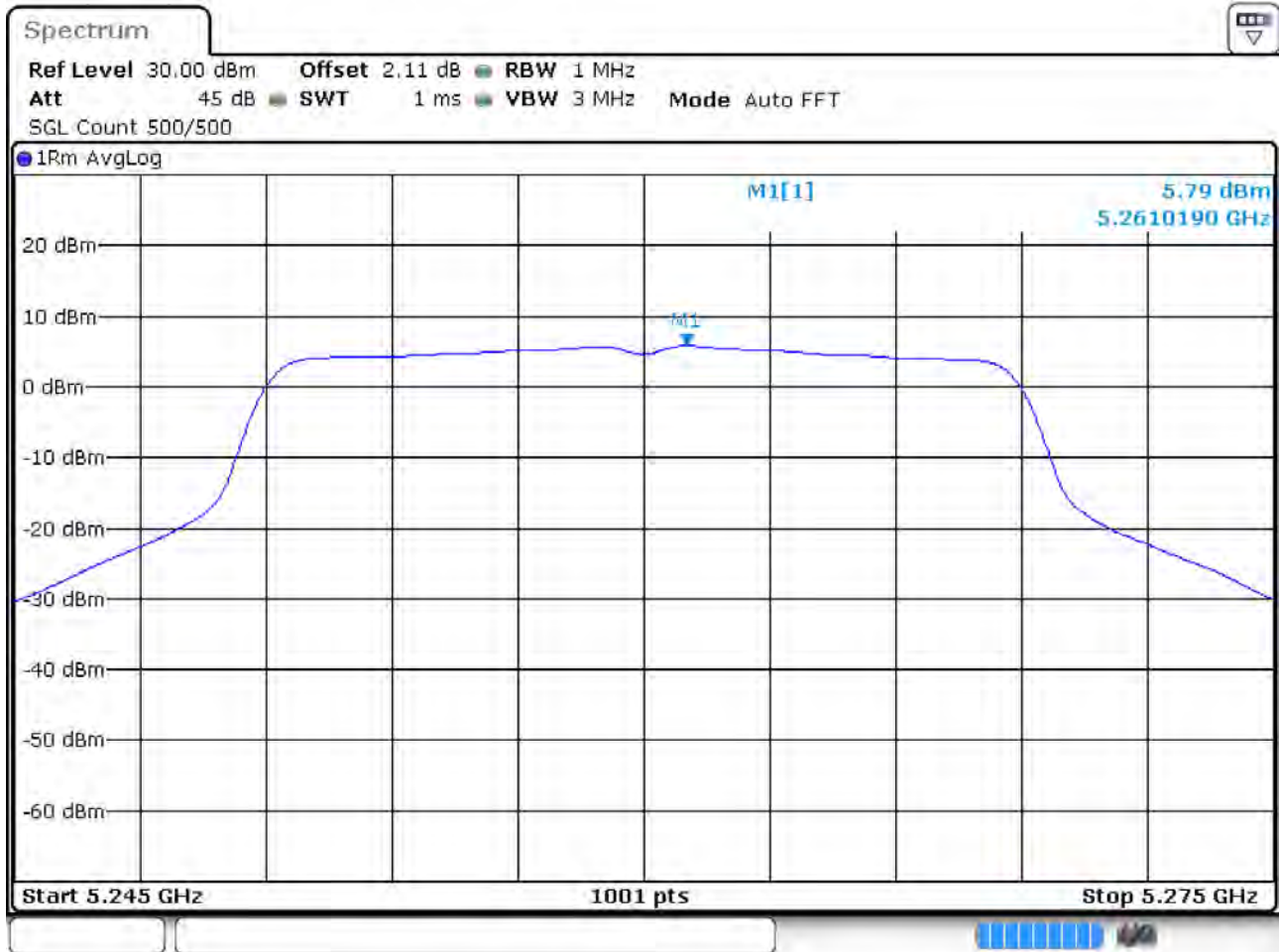
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4.8.2.16

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Date: 21.AUG.2020 17:05:27

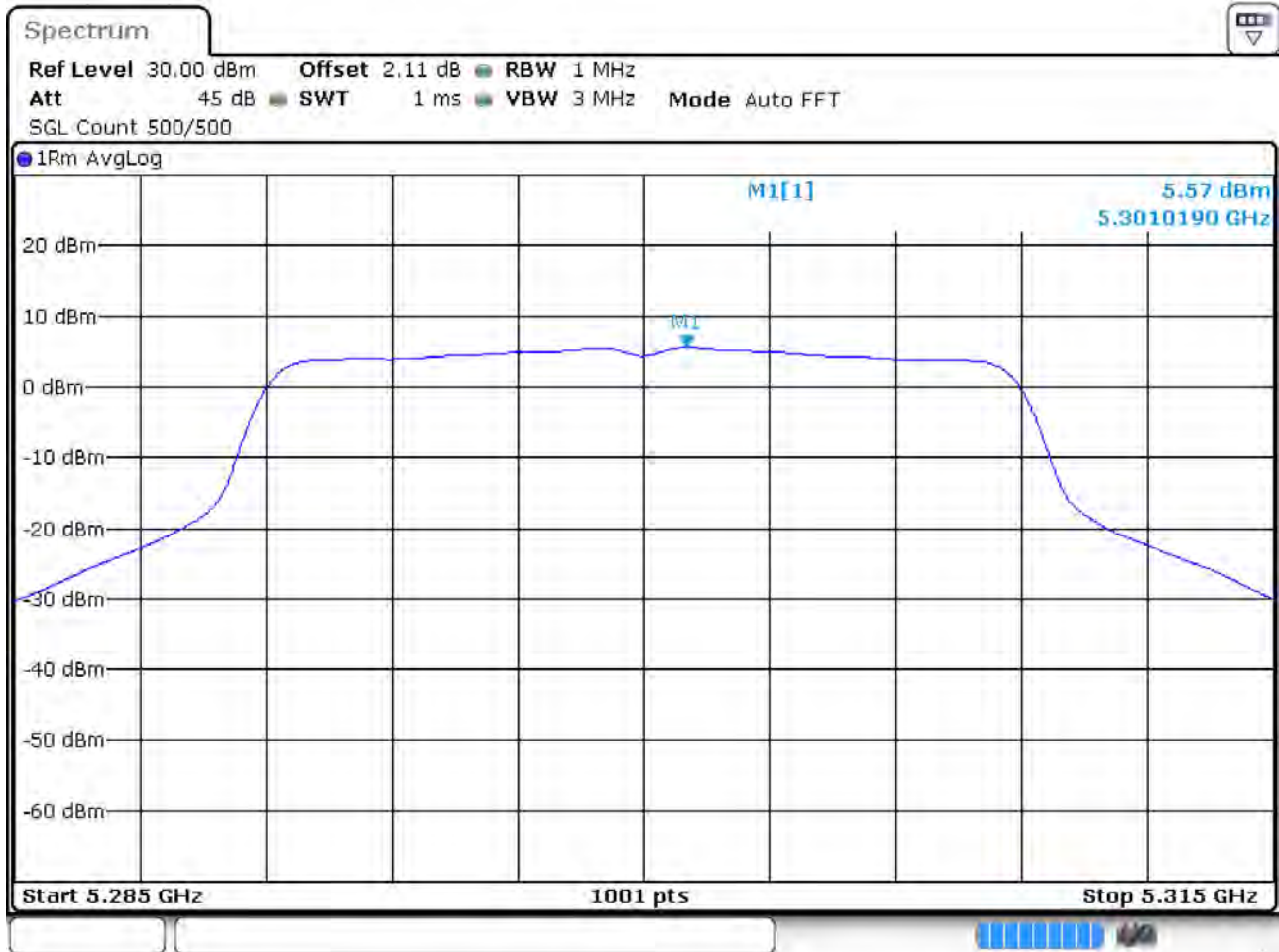


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4.8.2.17 11N20_60 ANT 1



Date: 21.AUG.2020 17:06:58



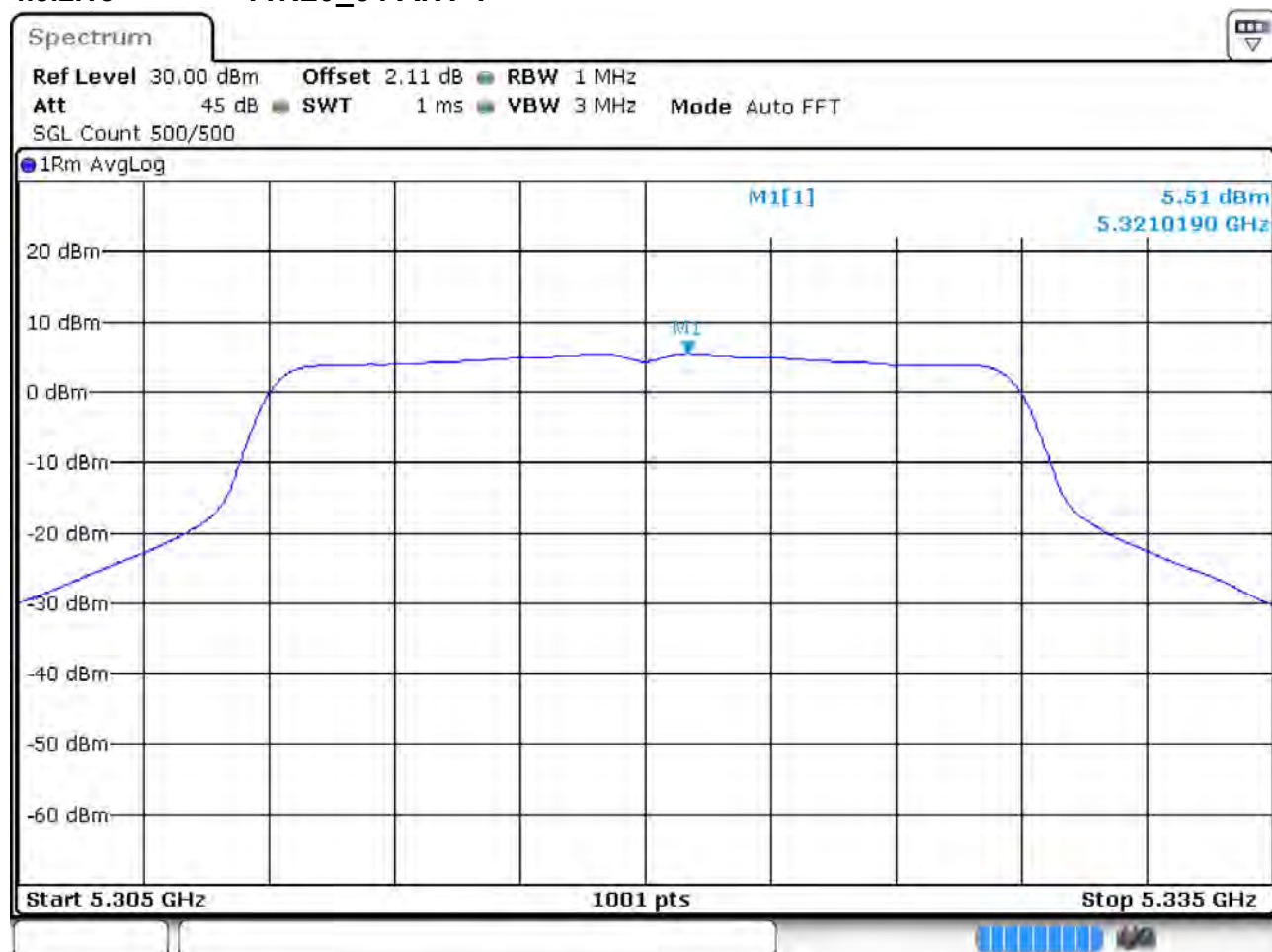
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4.8.2.18

11N20_64 ANT 1



Date: 21.AUG.2020 17:08:41

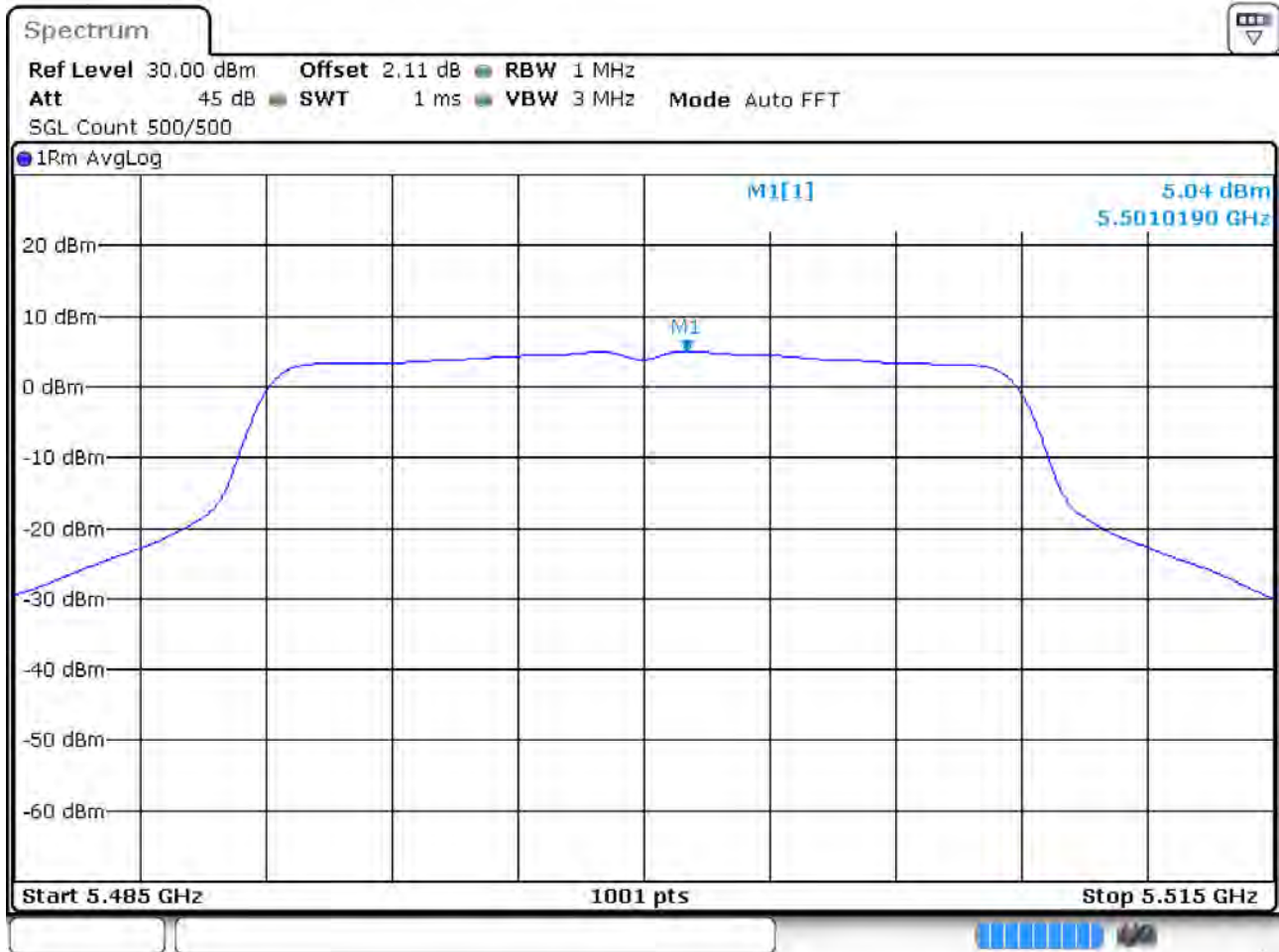


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4.8.2.19 11N20_100 ANT 1



Date: 21.AUG.2020 17:10:45

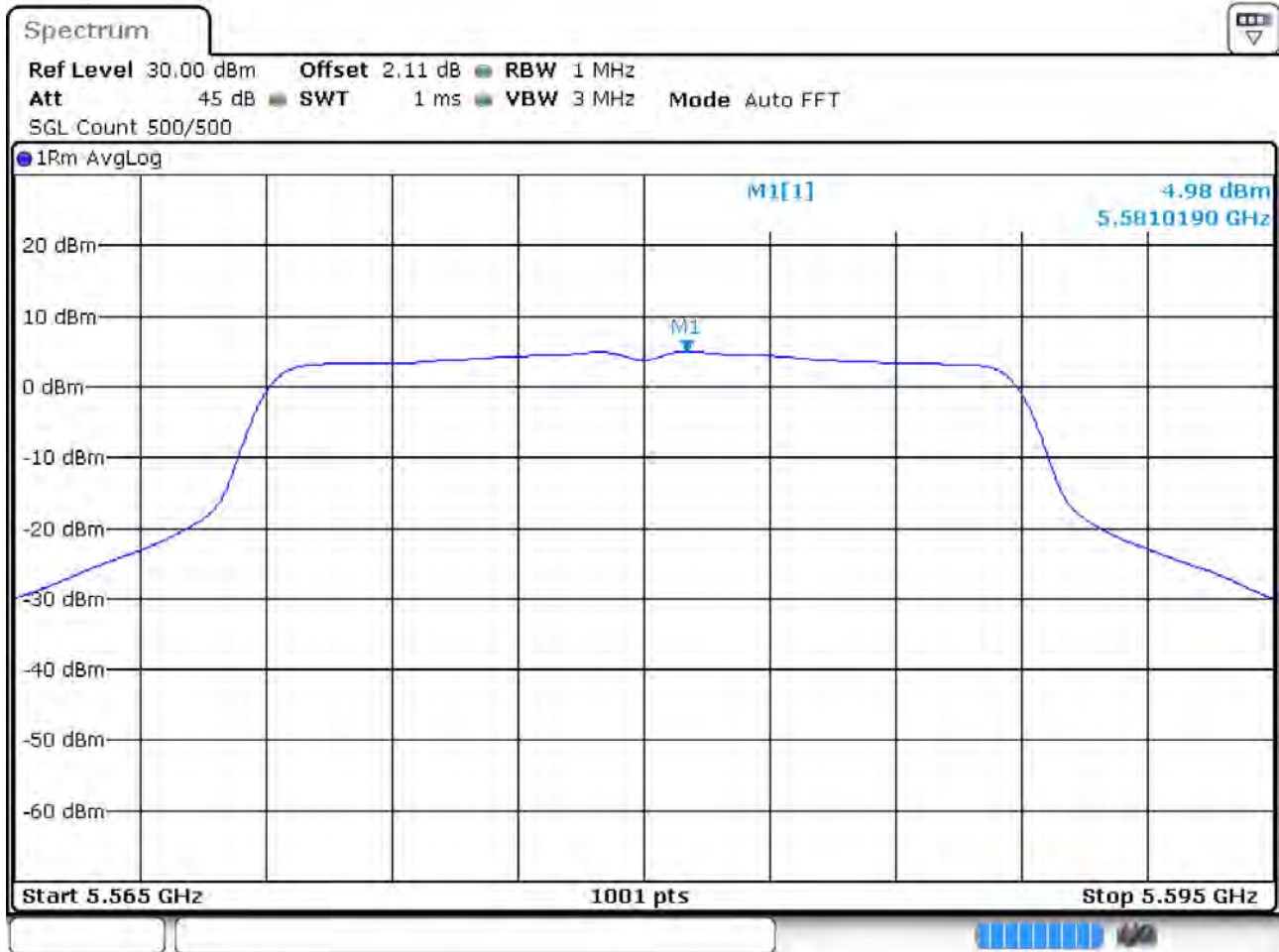


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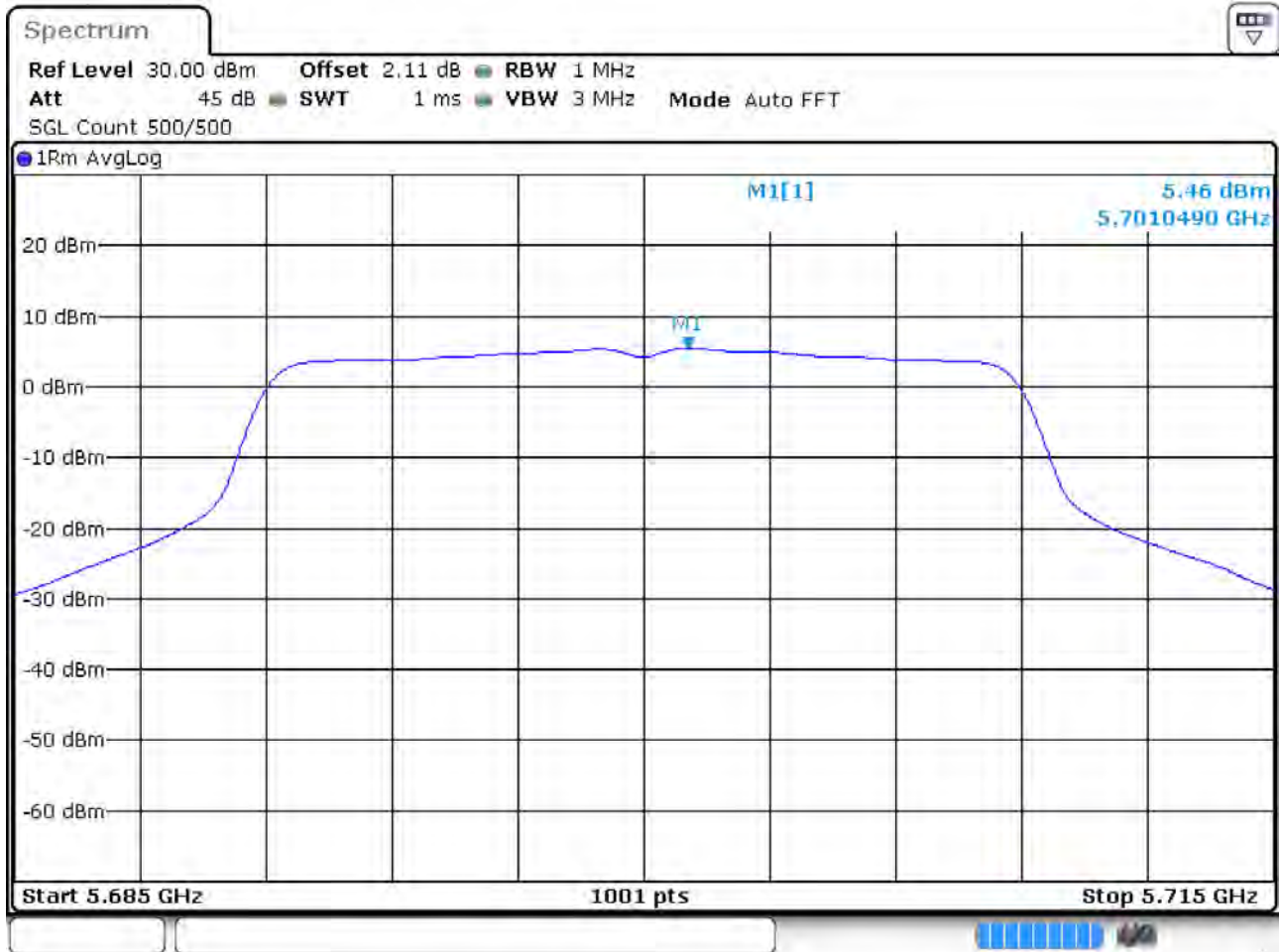


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4.8.2.21 11N20_140 ANT 1



Date: 21.AUG.2020 17:13:54

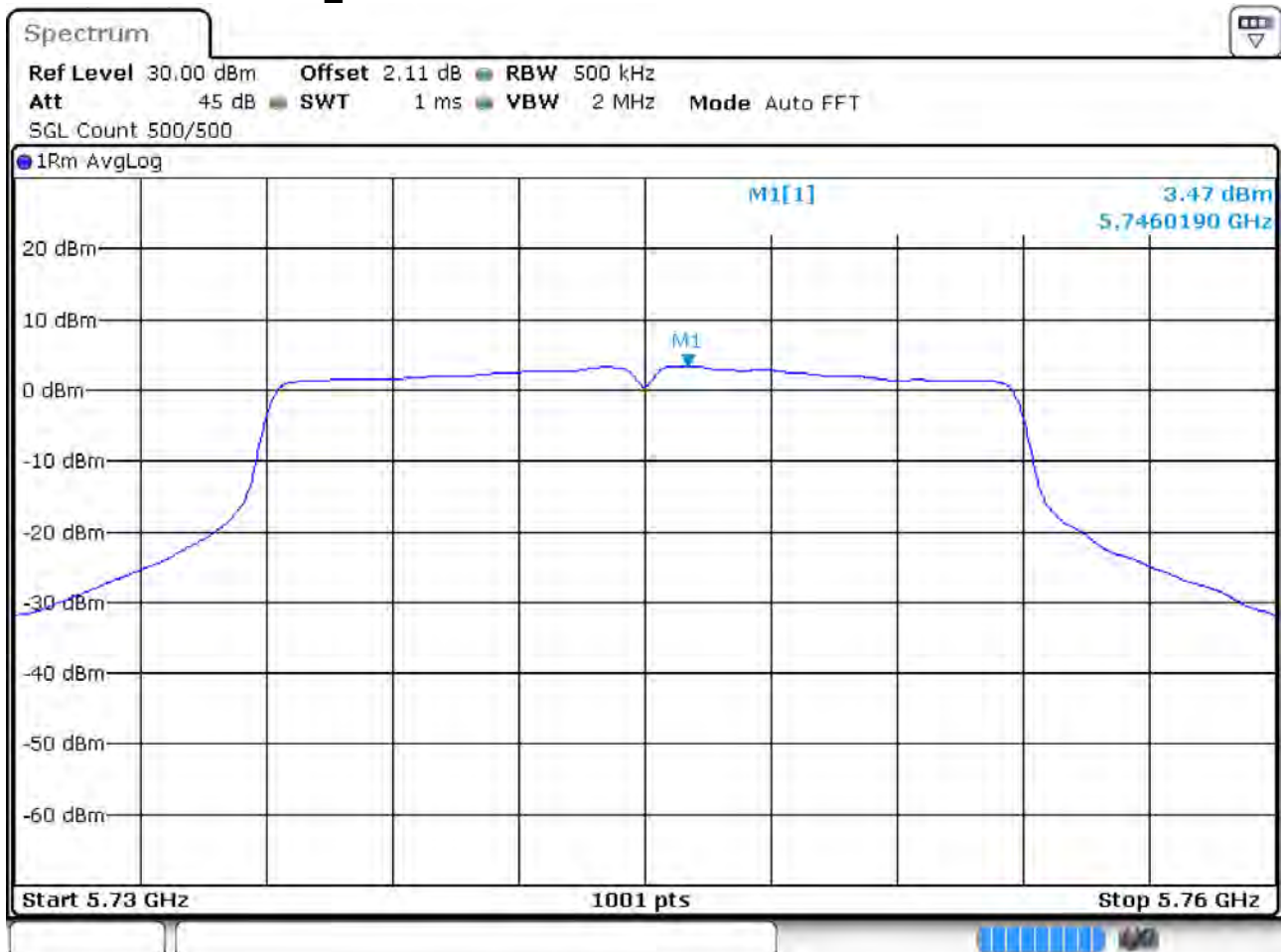


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4.8.2.22 11N20_149 ANT 1



Date: 1,SEP.2020 21:27:04



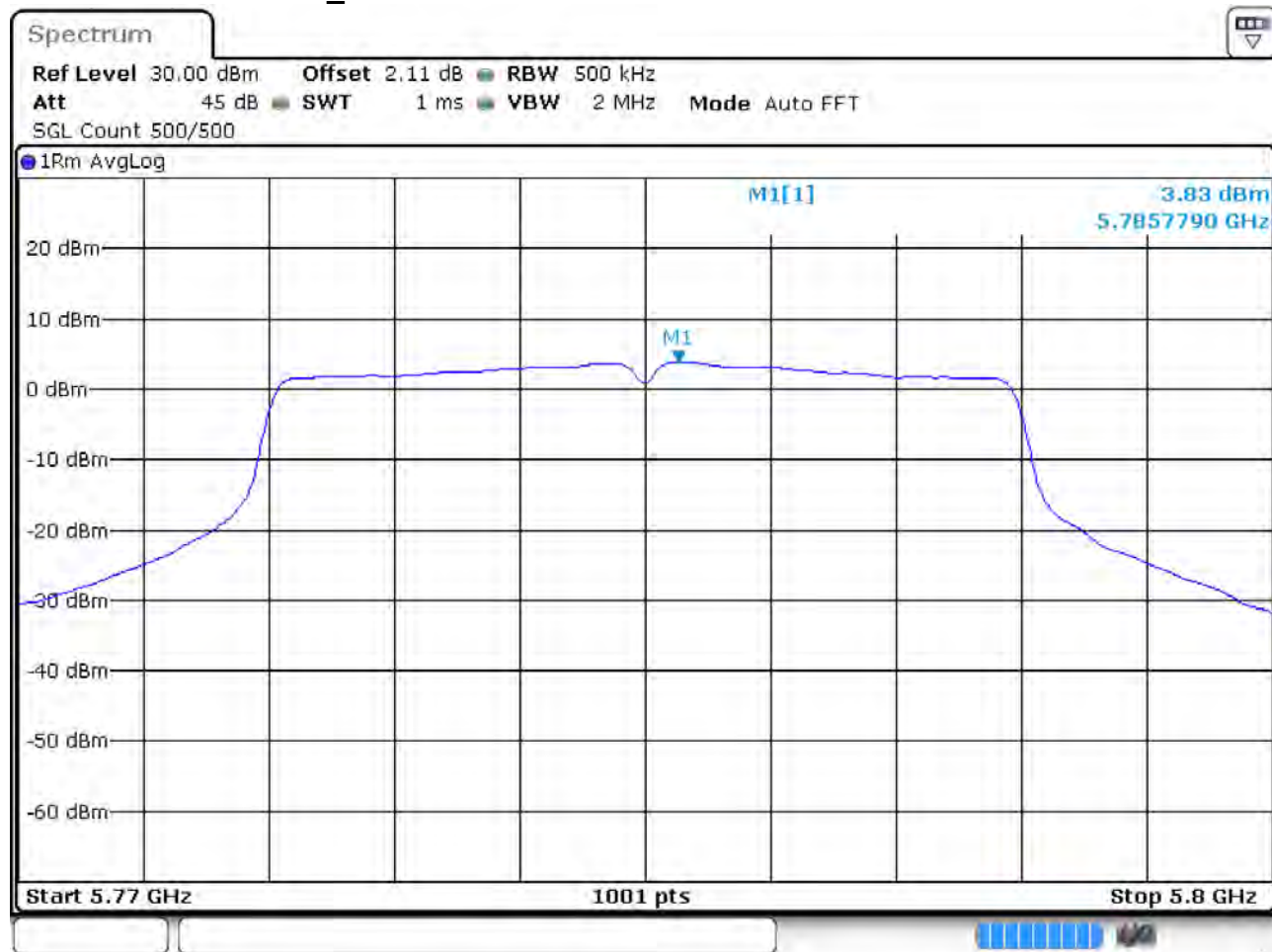
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4.8.2.23

11N20_157 ANT 1



Date: 1 SEP 2020 21:27:55

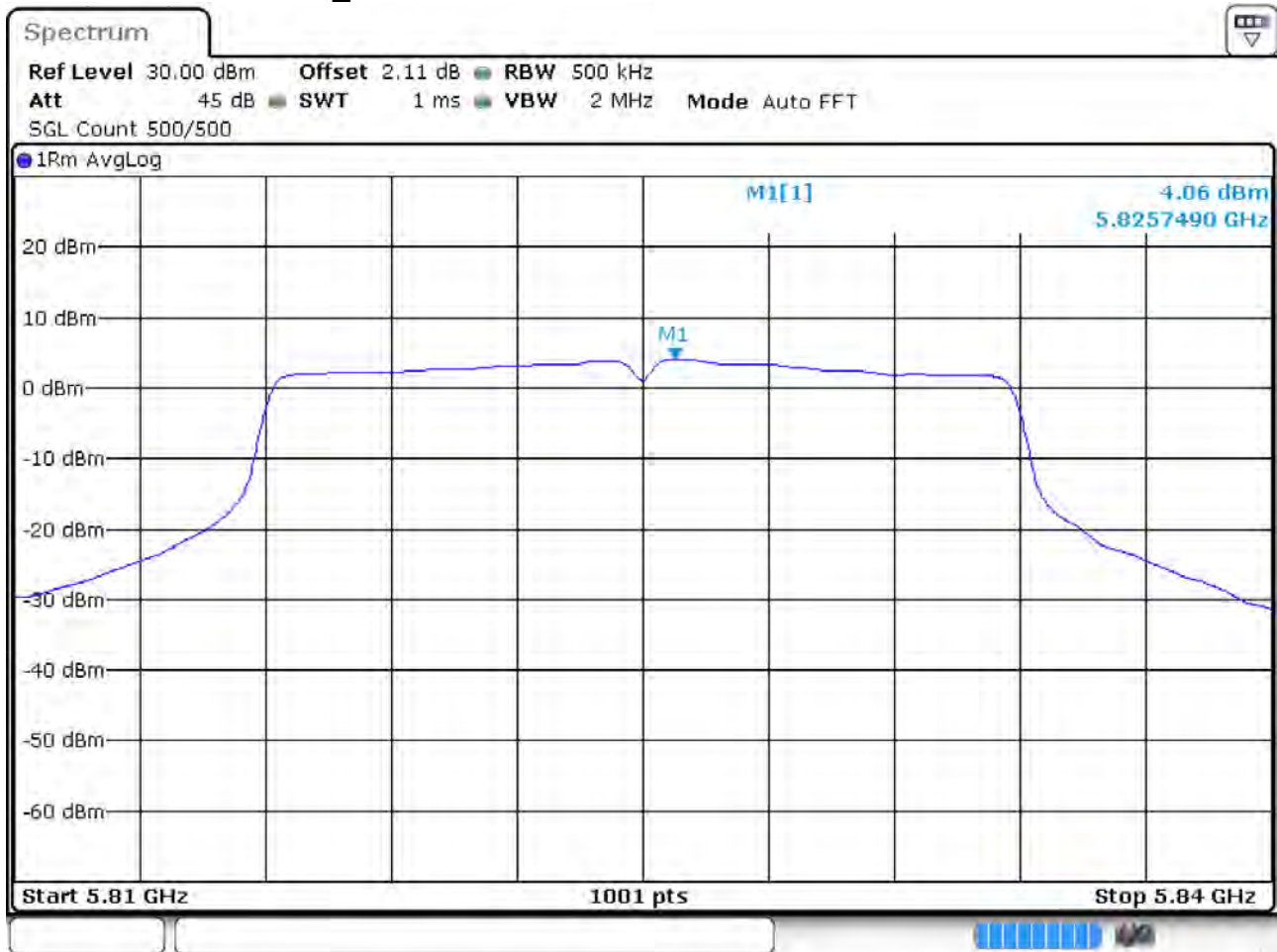


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4.8.2.24

11N20_165 ANT 1



Date: 1 SEP 2020 21:28:45



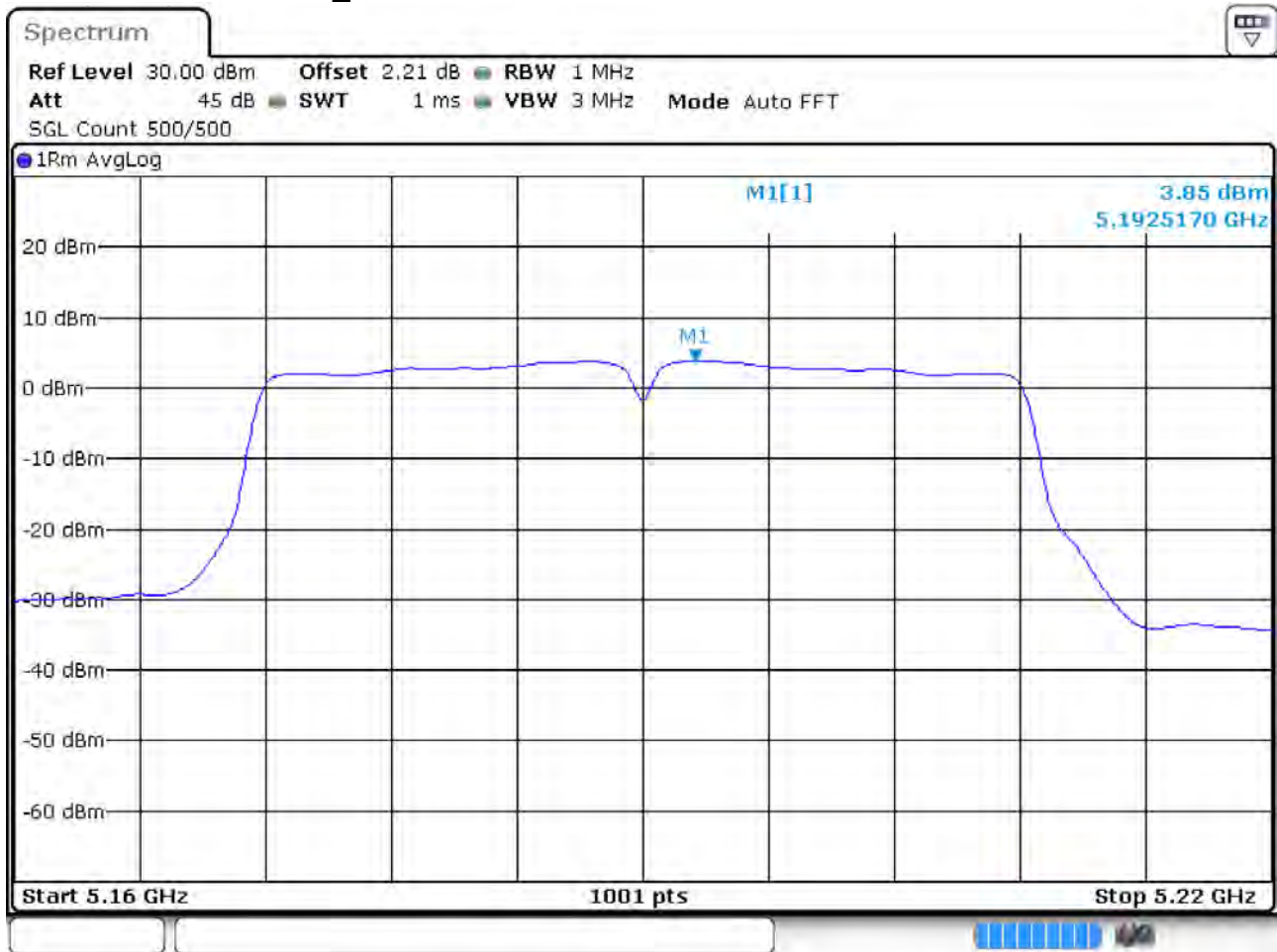
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4.8.2.25

11N40_38 ANT 1



Date: 21.AUG.2020 17:59:06



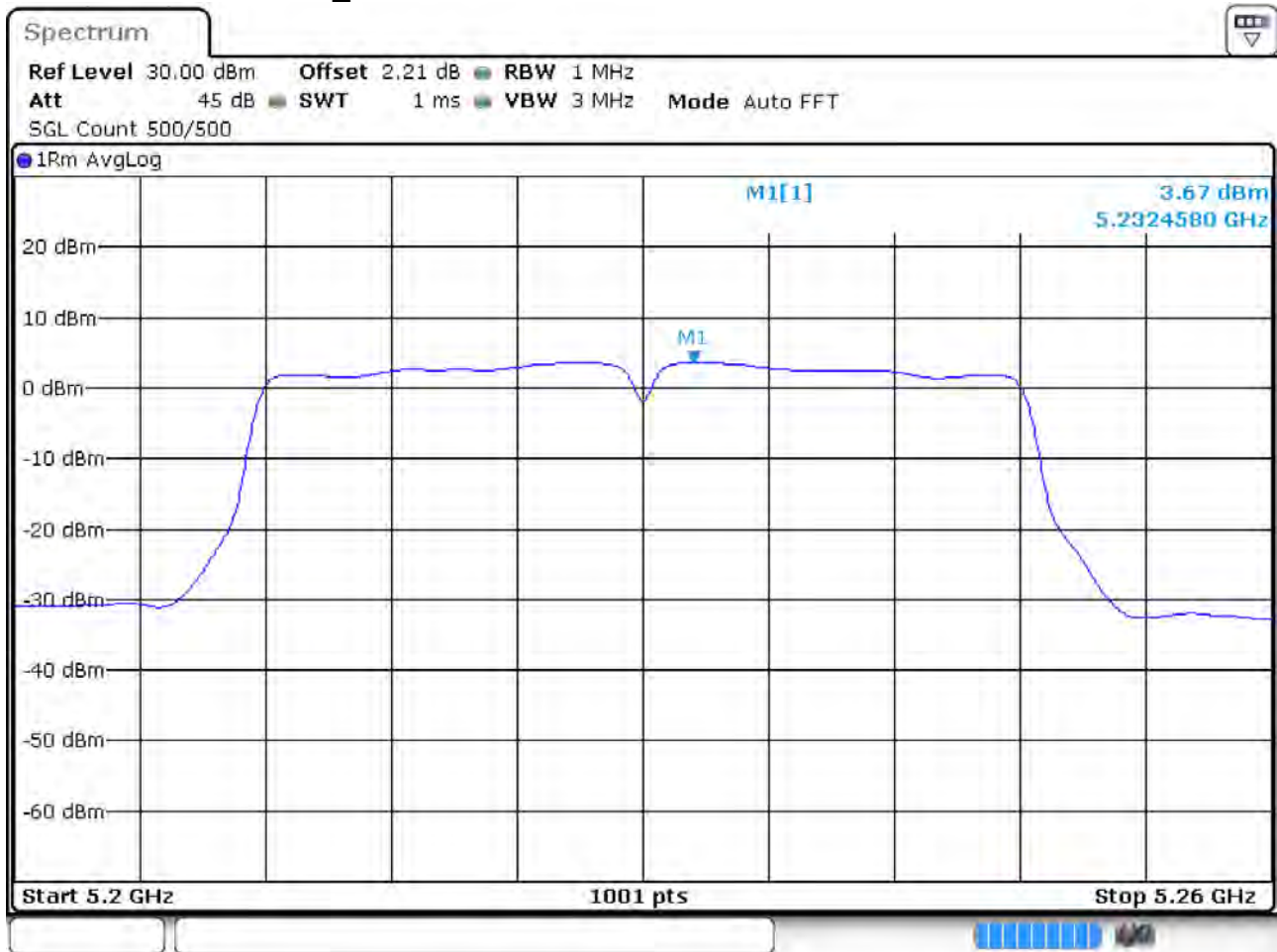
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4.8.2.26

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Date: 21.AUG.2020 18:00:52



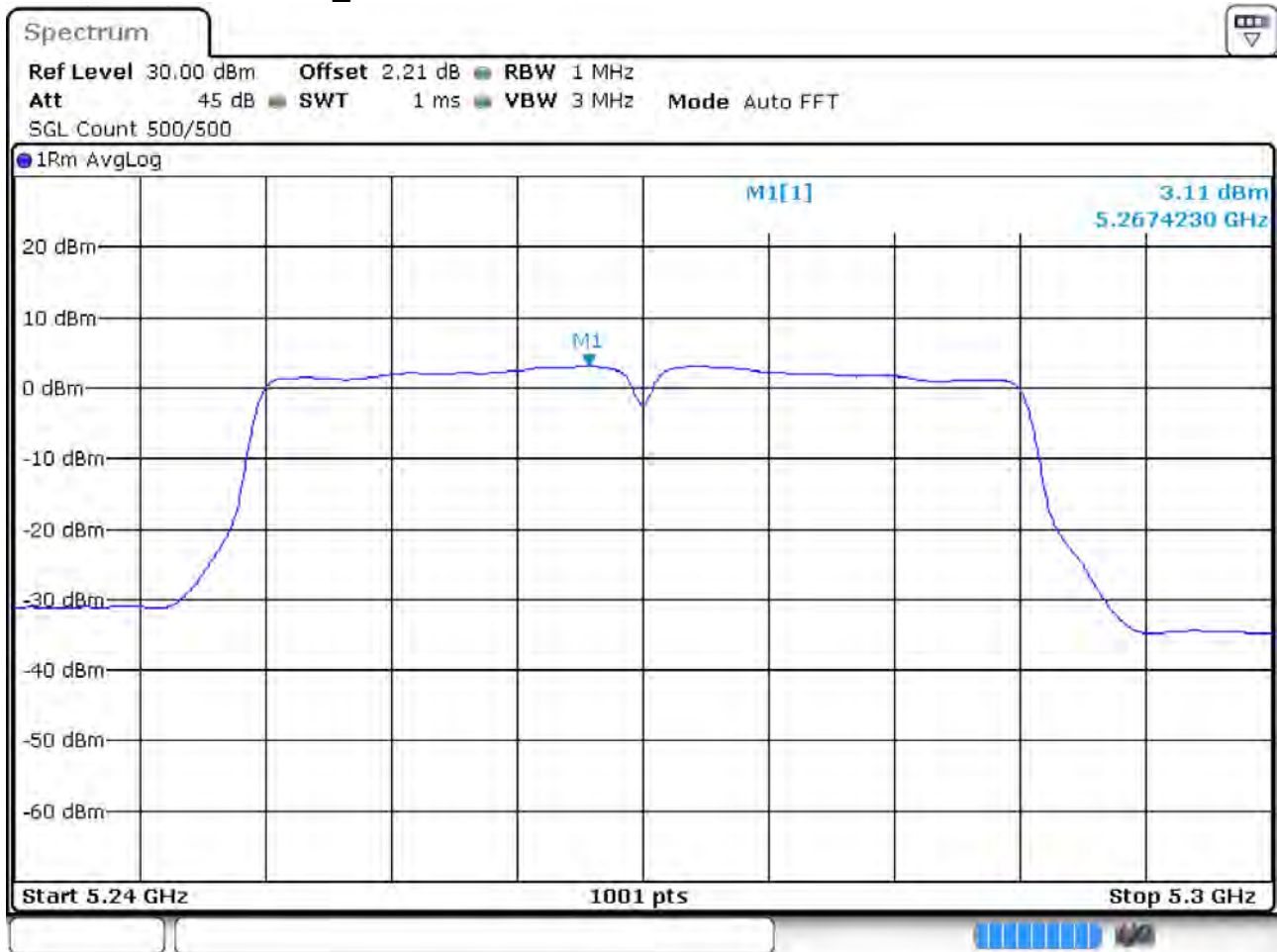
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4.8.2.27

11N40_54 ANT 1



Date: 21.AUG.2020 18:02:45



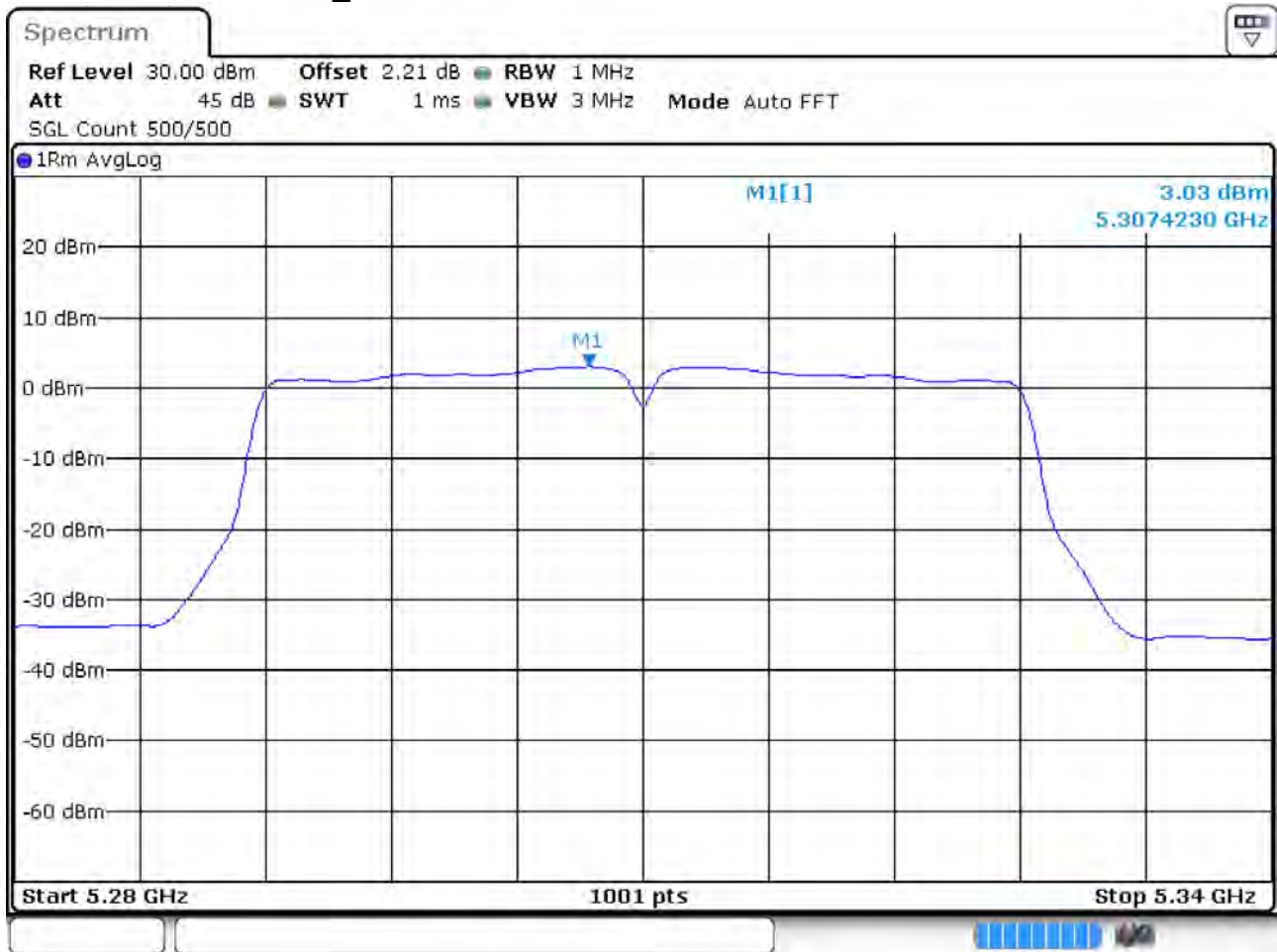
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4.8.2.28

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Date: 21.AUG.2020 18:04:33

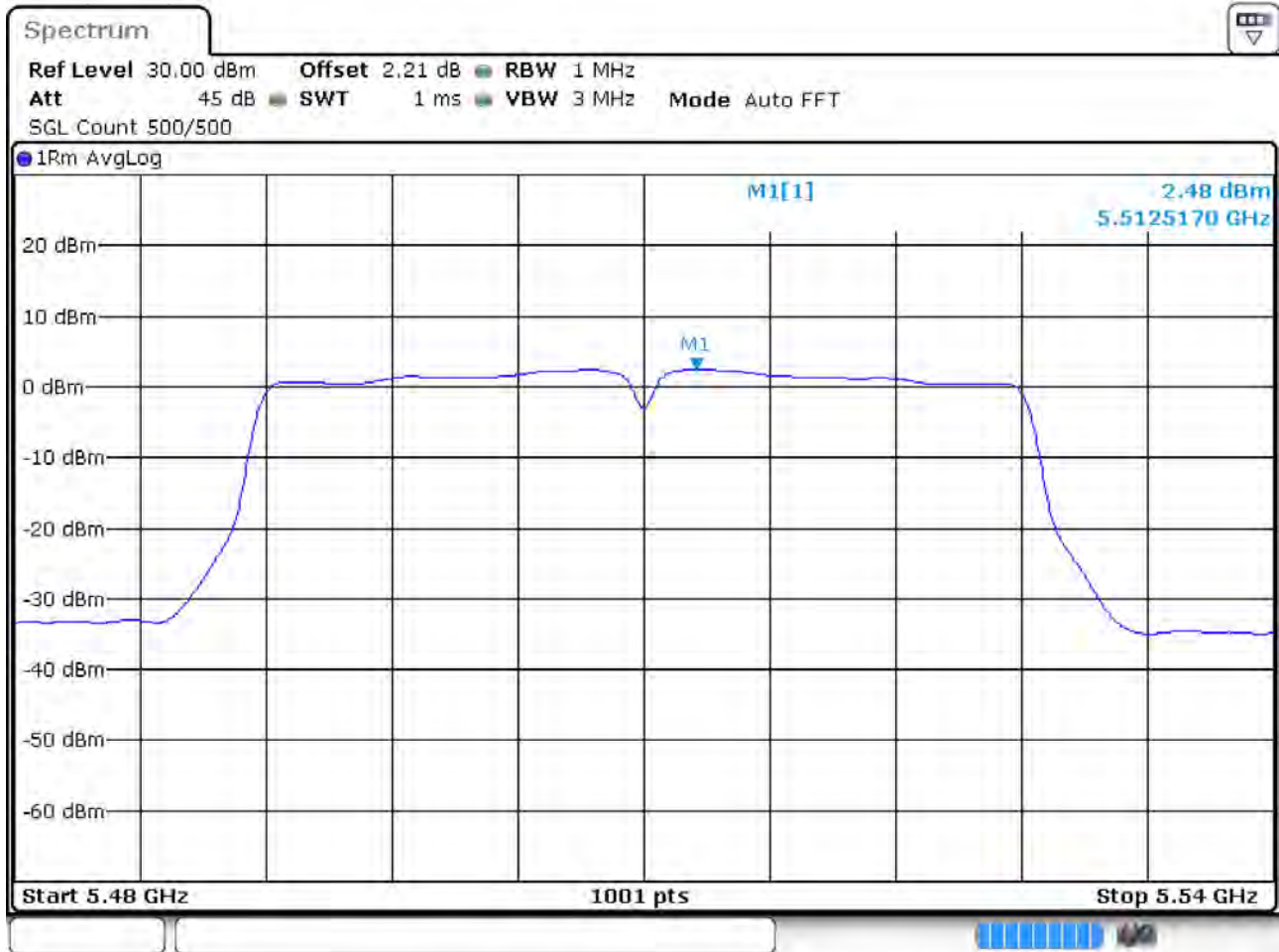


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4.8.2.29 11N40_102 ANT 1



Date: 21.AUG.2020 18:07:17

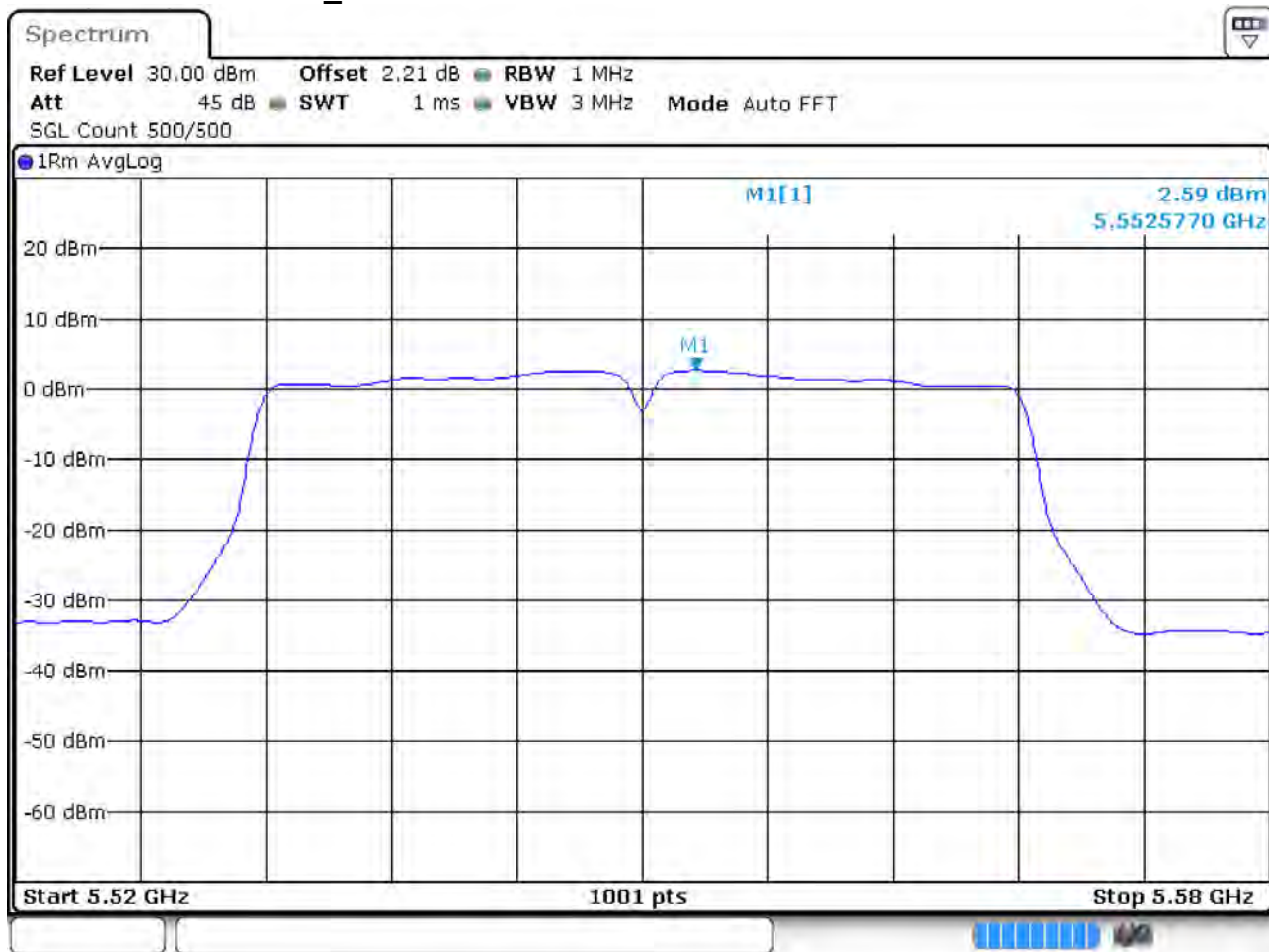


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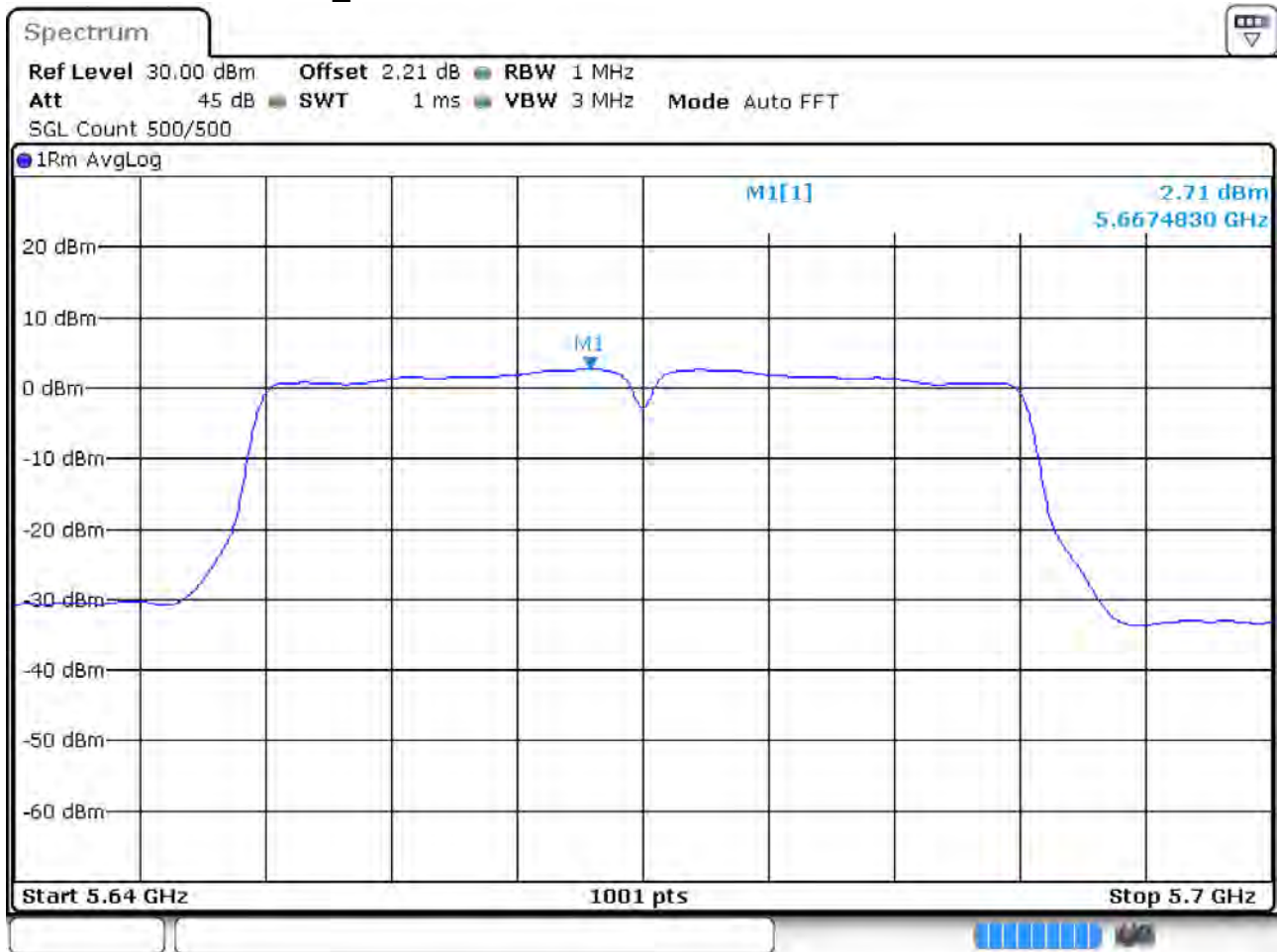


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4.8.2.31 11N40_134 ANT 1



Date: 21.AUG.2020 18:10:46

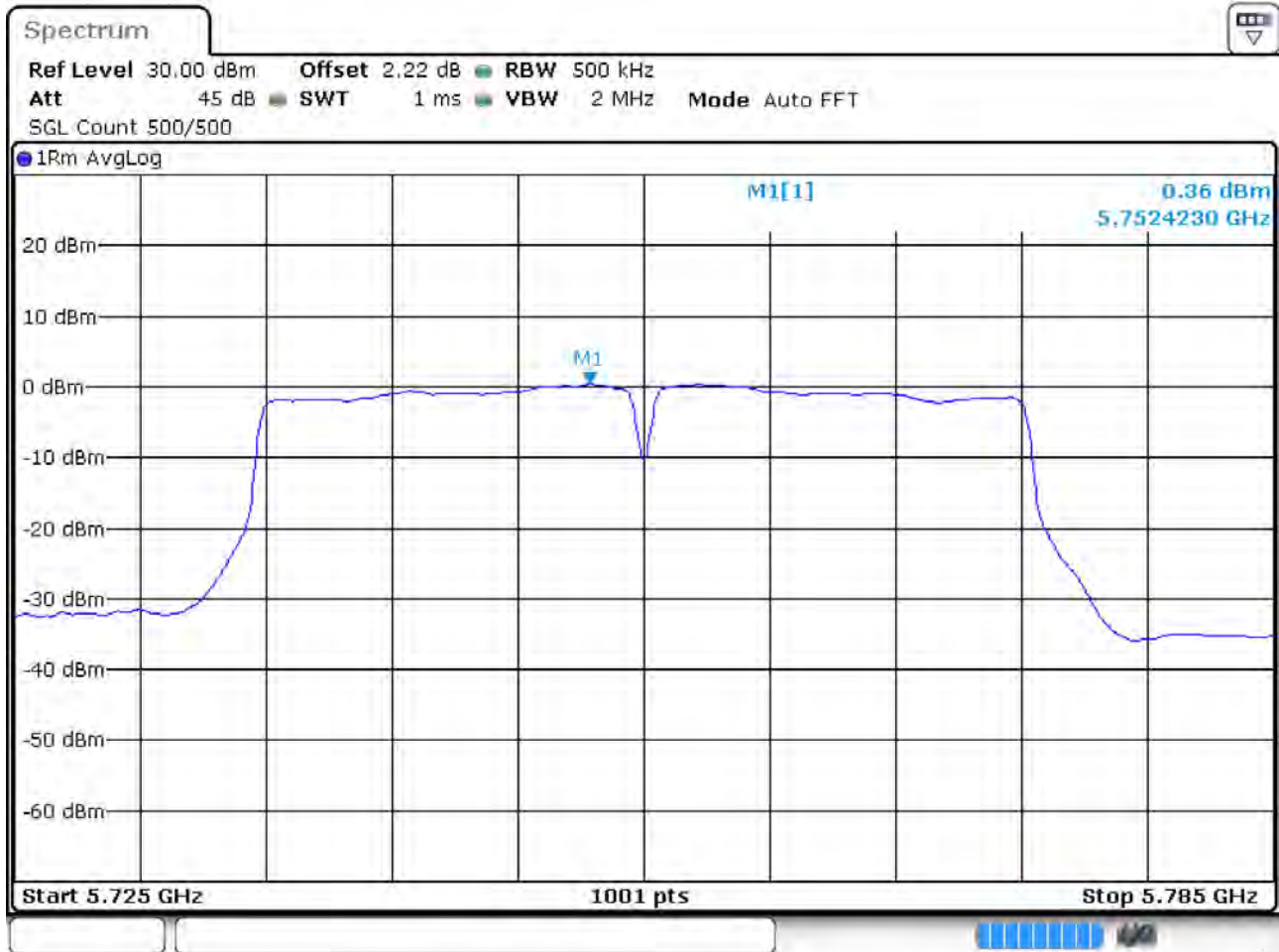


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4.8.2.32 11N40_151 ANT 1



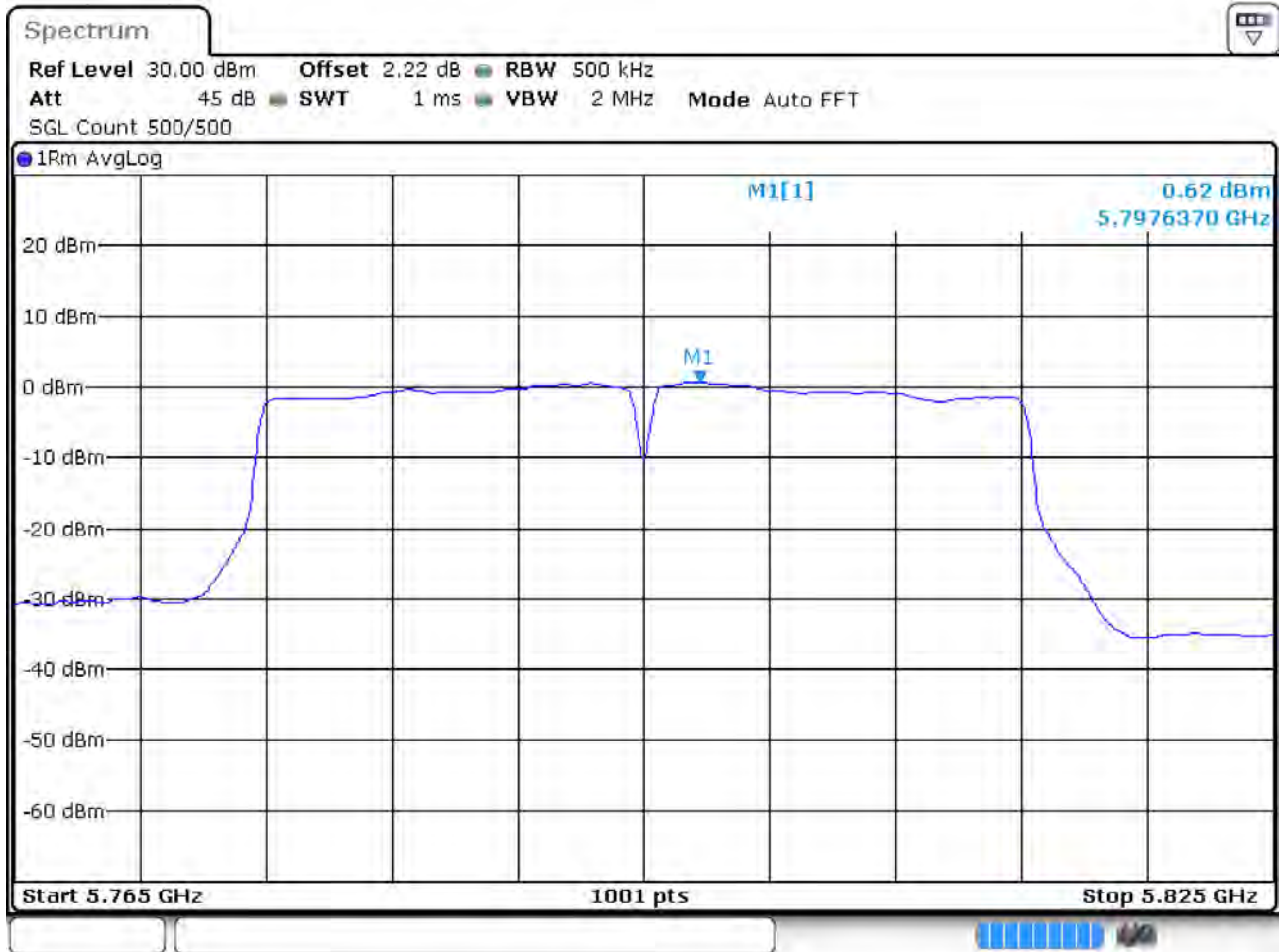
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4.8.2.33 11N40_159 ANT 1



Date: 1 SEP 2020 21:34:06

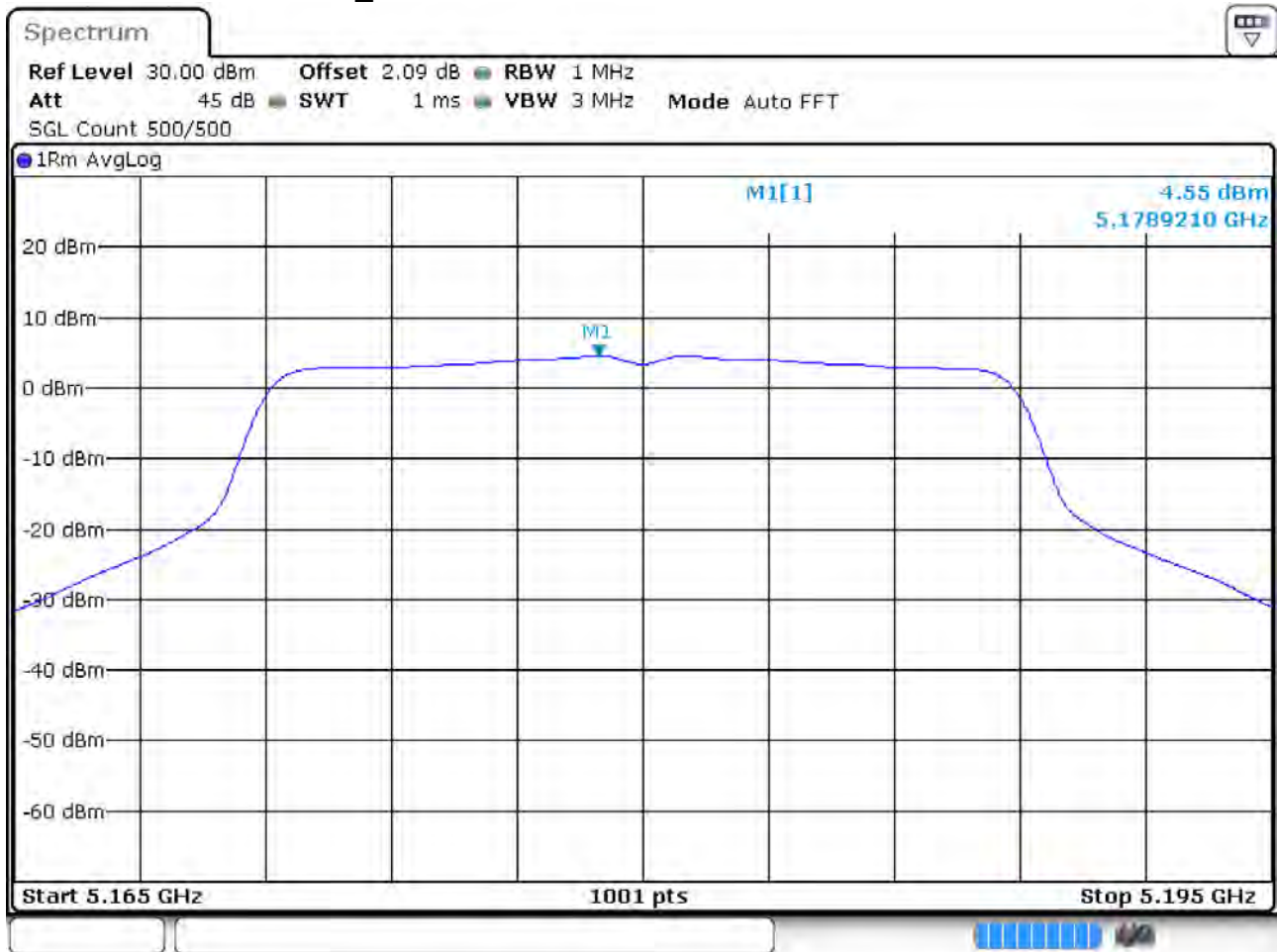


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4.8.2.34 11AC20_36 ANT 1



Date: 21.AUG.2020 17:23:05

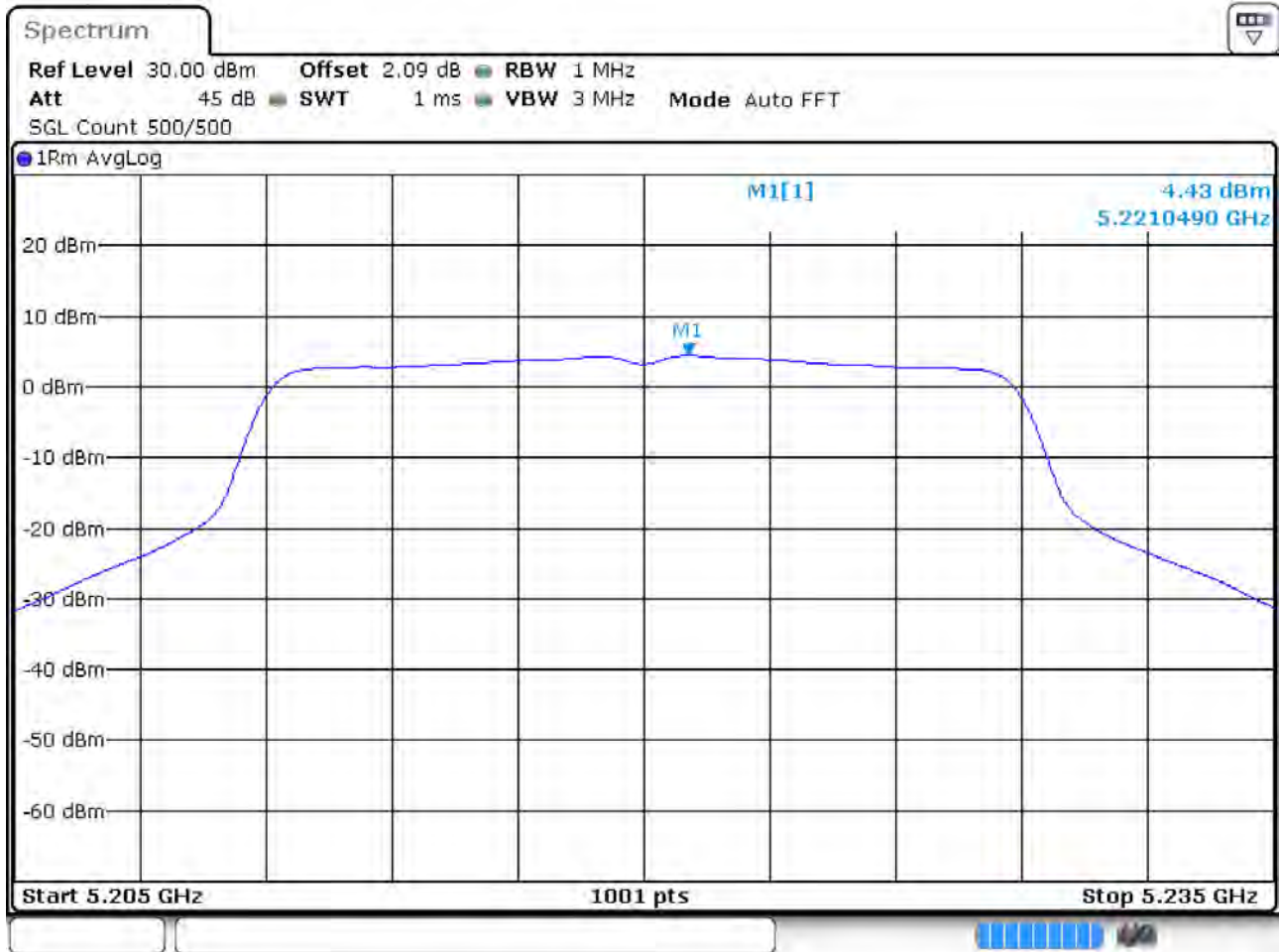


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4.8.2.35 11AC20_44 ANT 1



Date: 21.AUG.2020 17:24:48



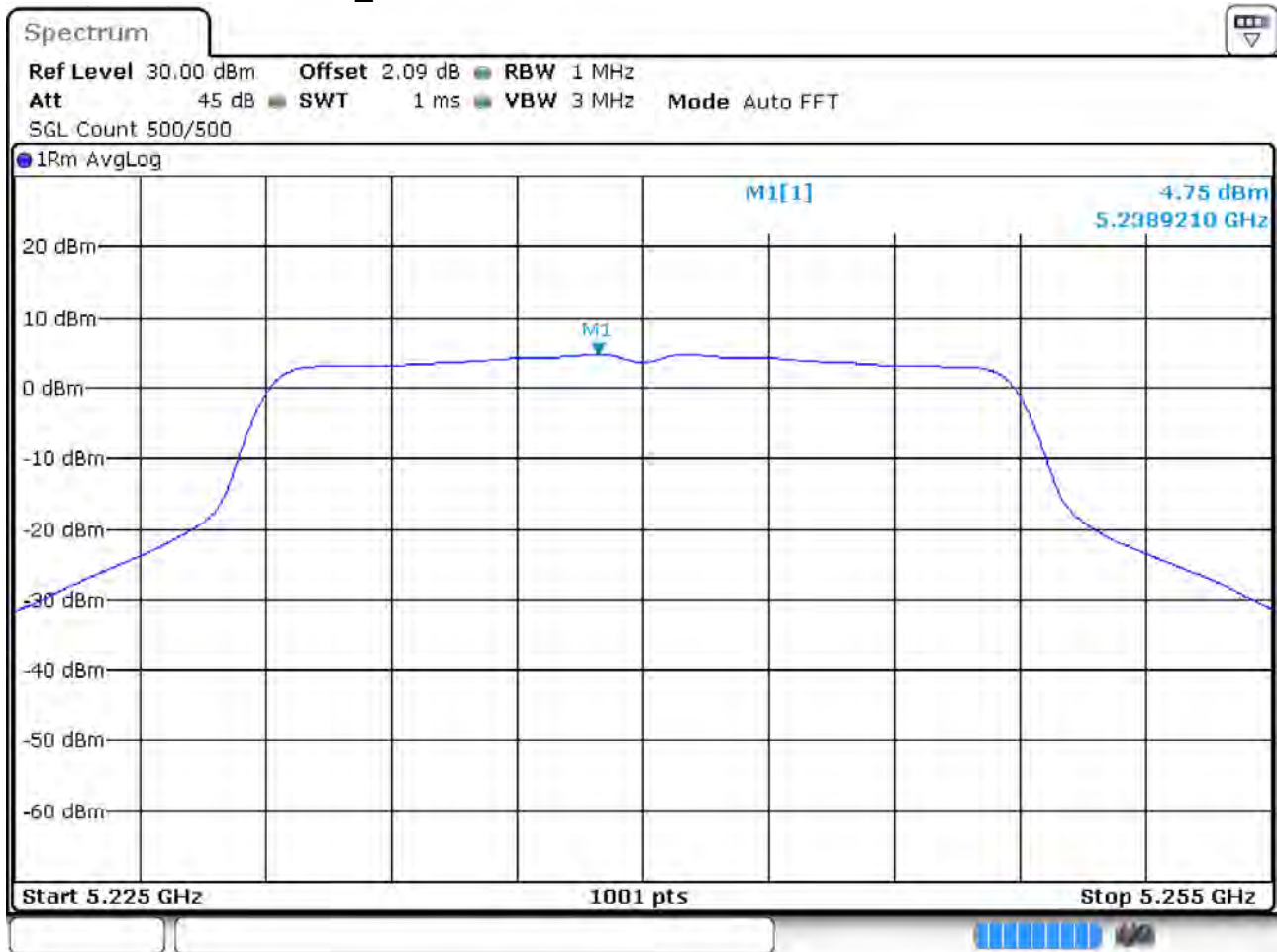
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4.8.2.36

11AC20_48 ANT 1



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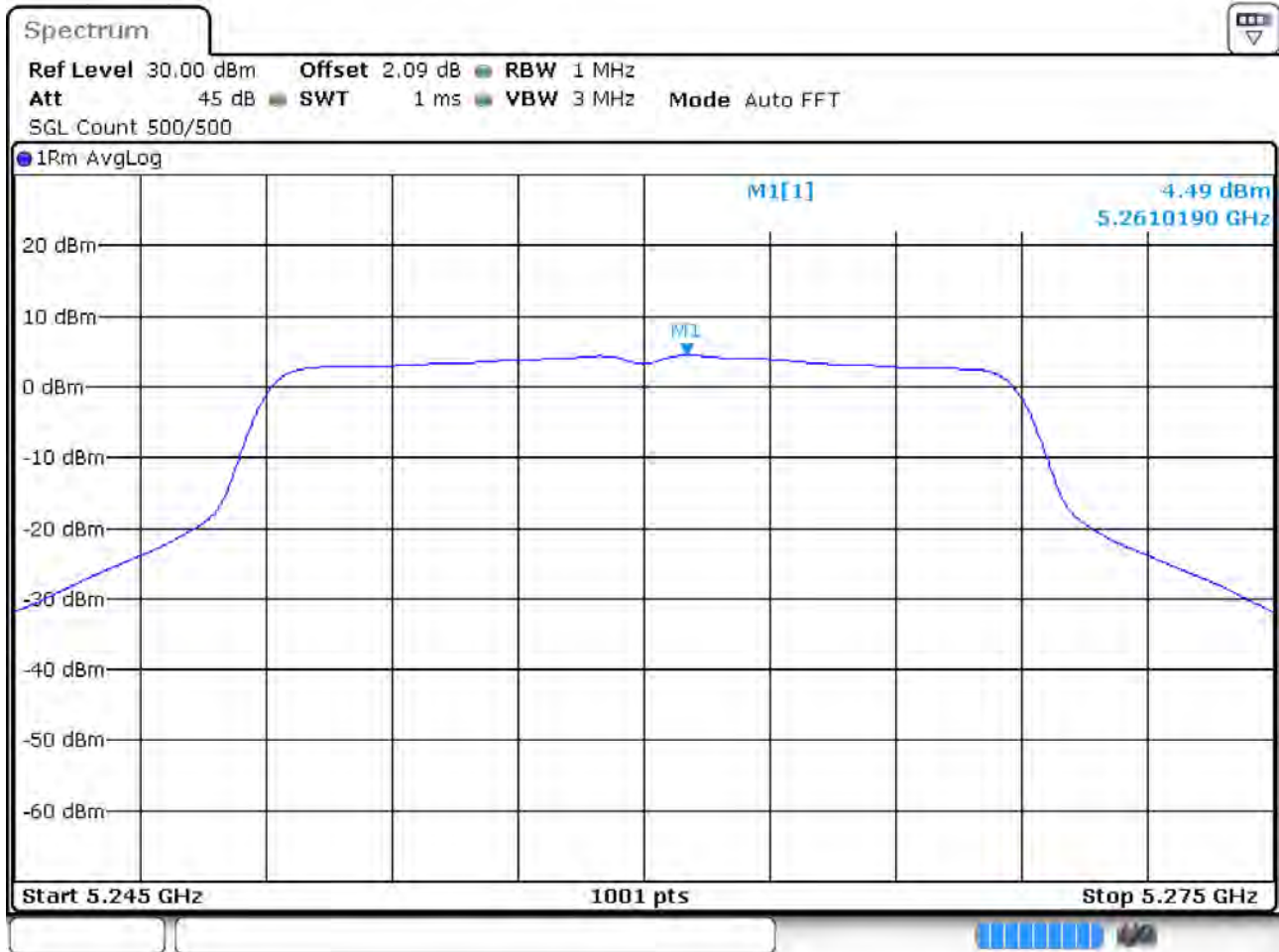


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4.8.2.37 11AC20_52 ANT 1



Date: 21.AUG.2020 17:29:07

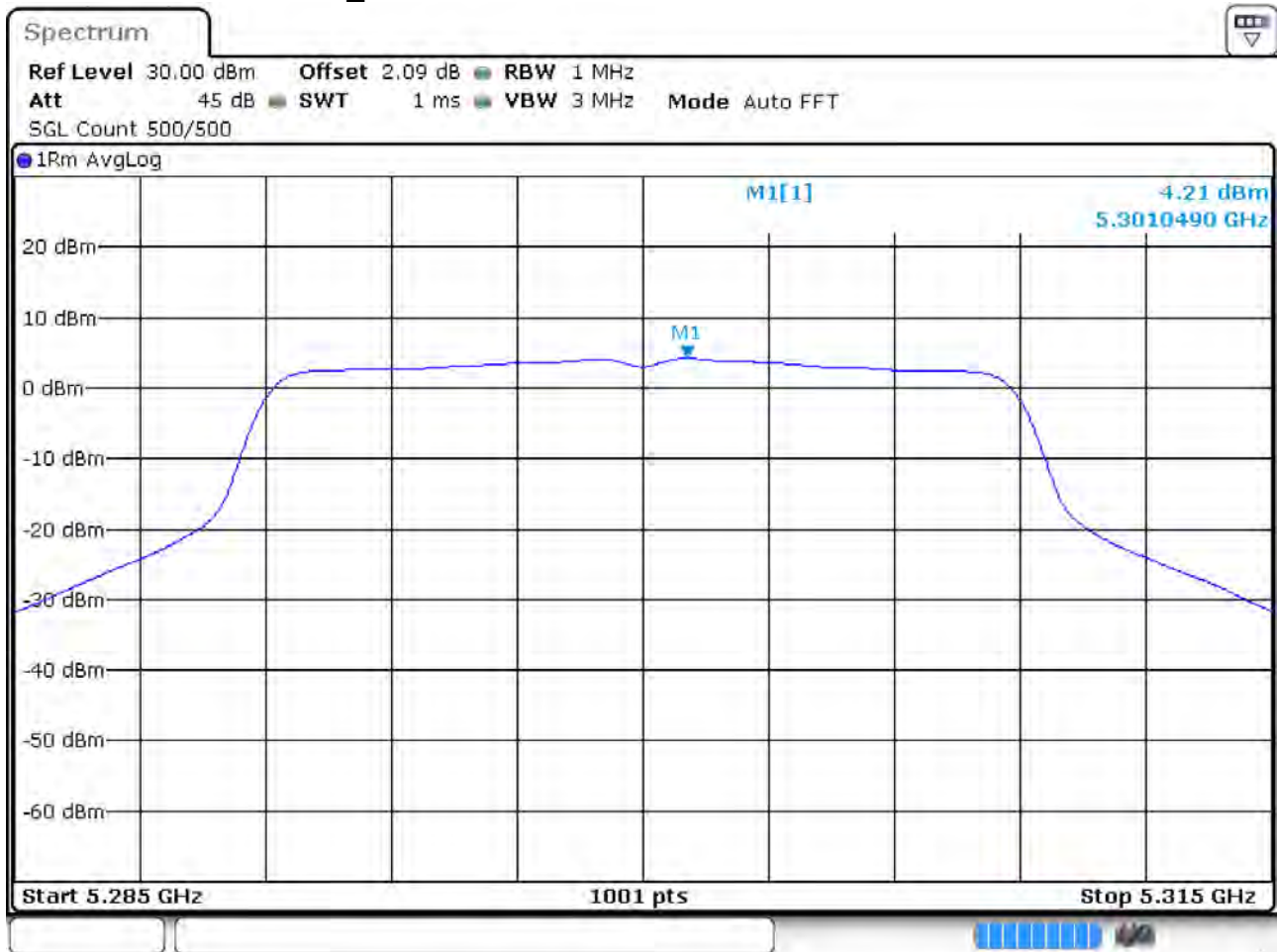


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4.8.2.38 11AC20_60 ANT 1



Date: 21.AUG.2020 17:30:56



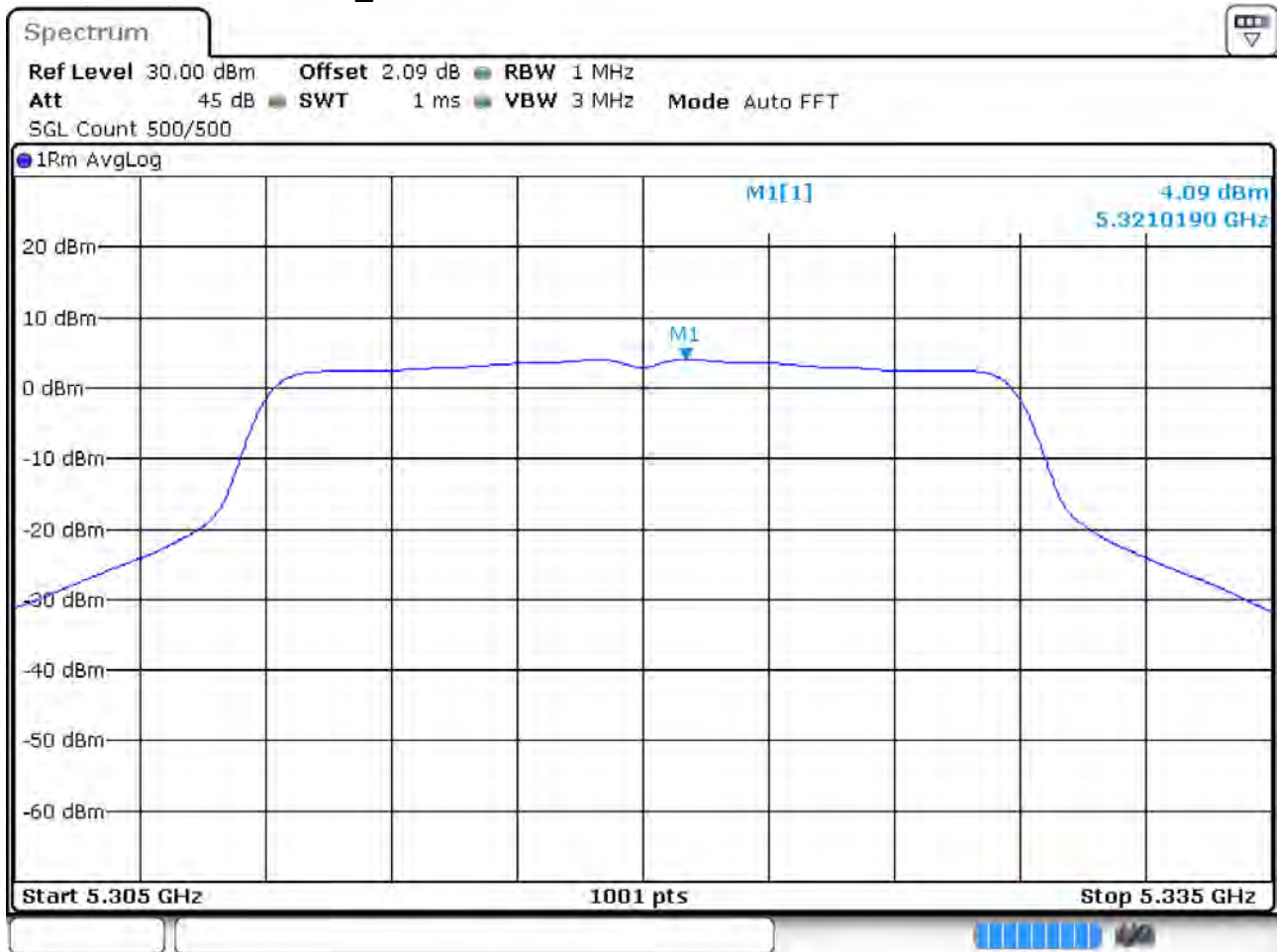
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4.8.2.39

11AC20_64 ANT 1



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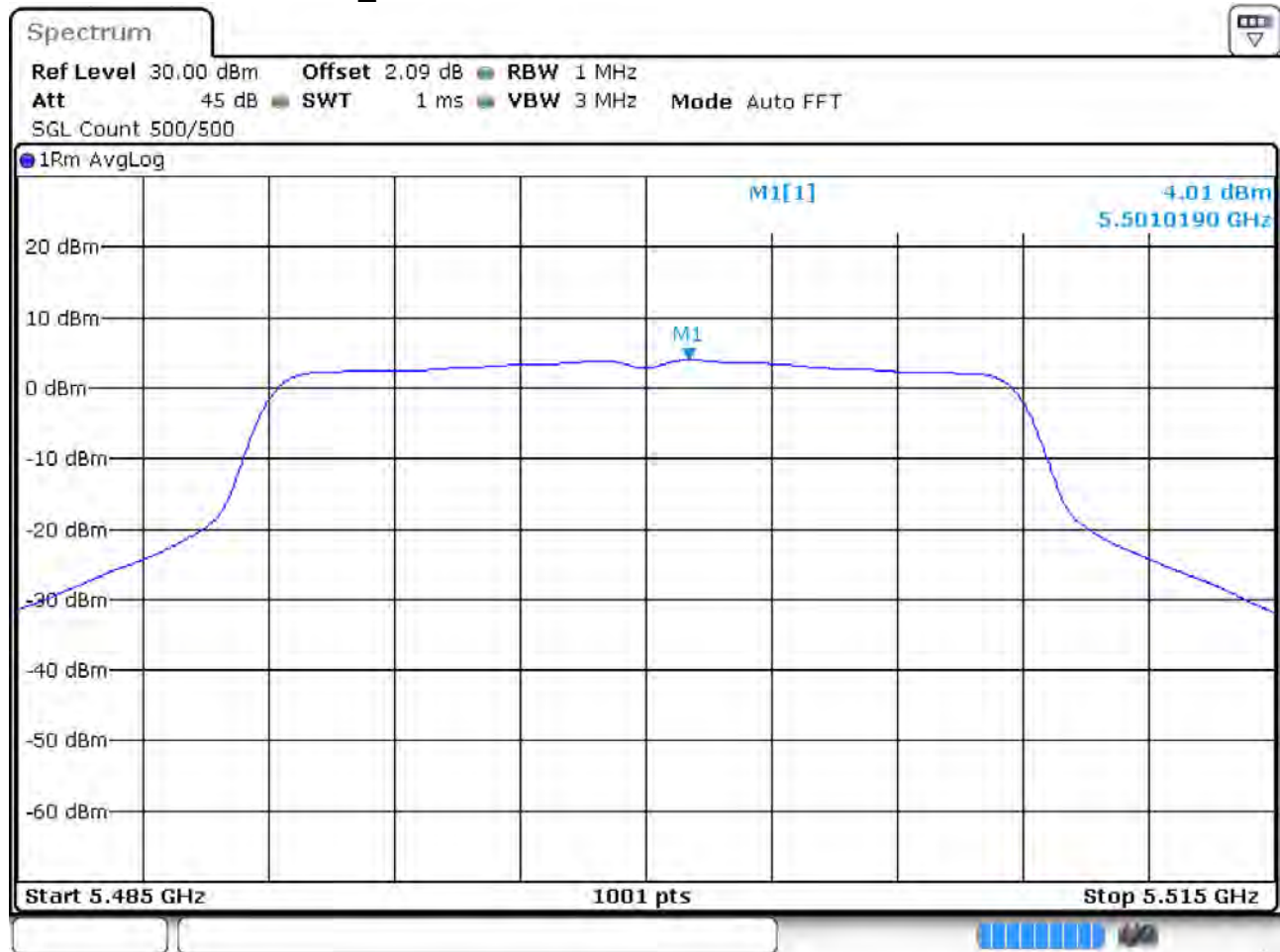


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4.8.2.40 11AC20_100 ANT 1



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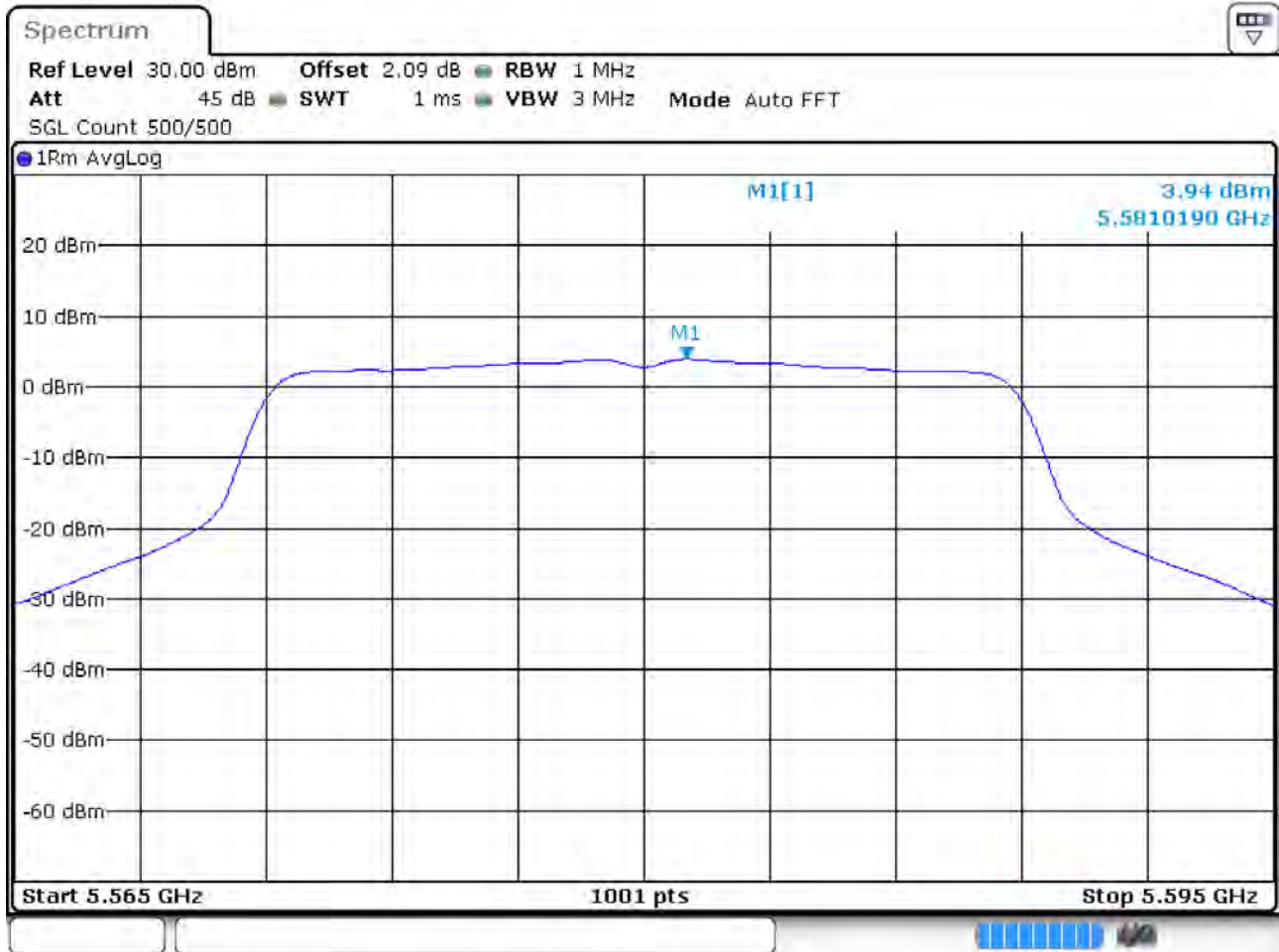


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Date: 21.AUG.2020 17:48:09

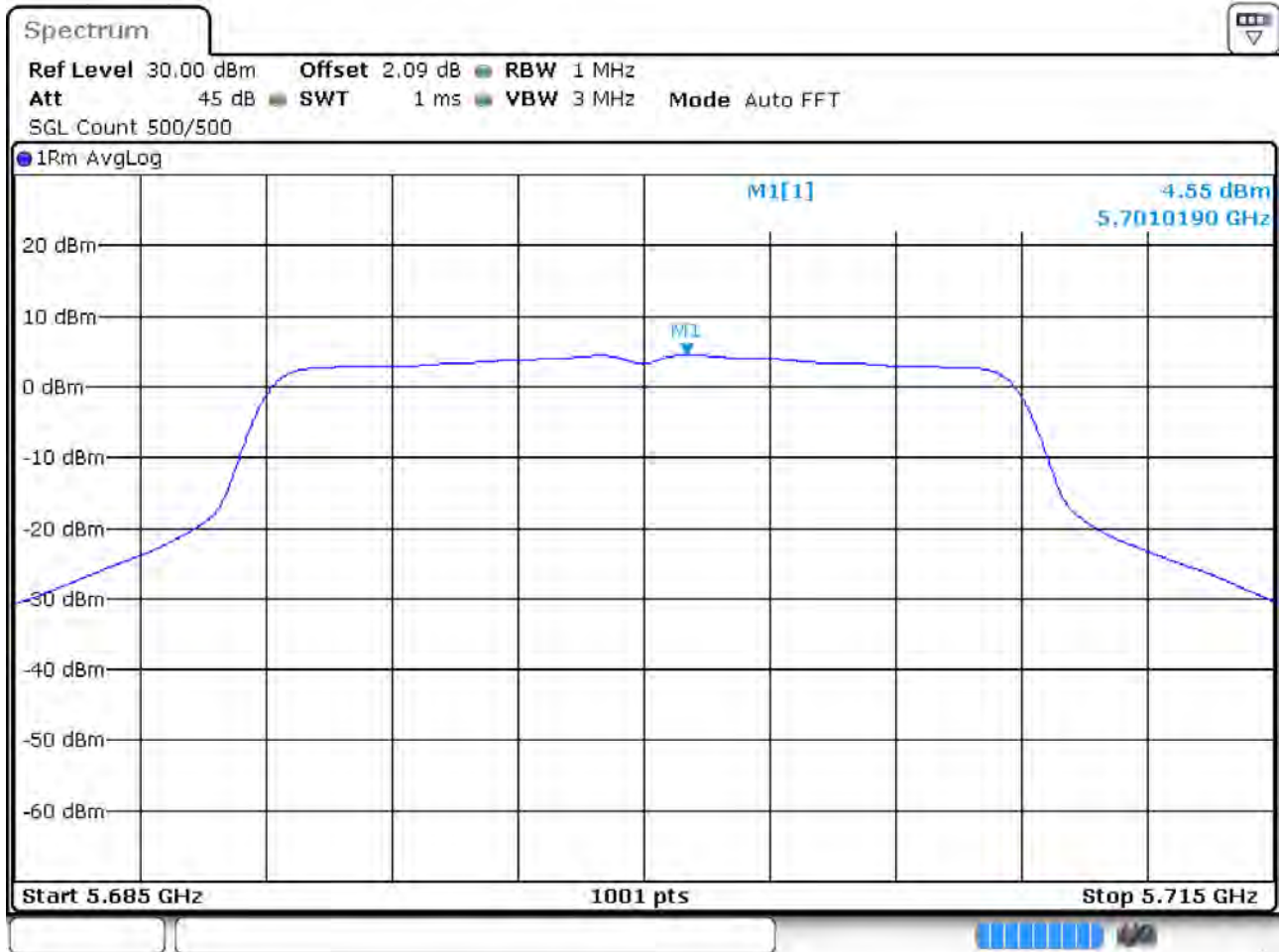


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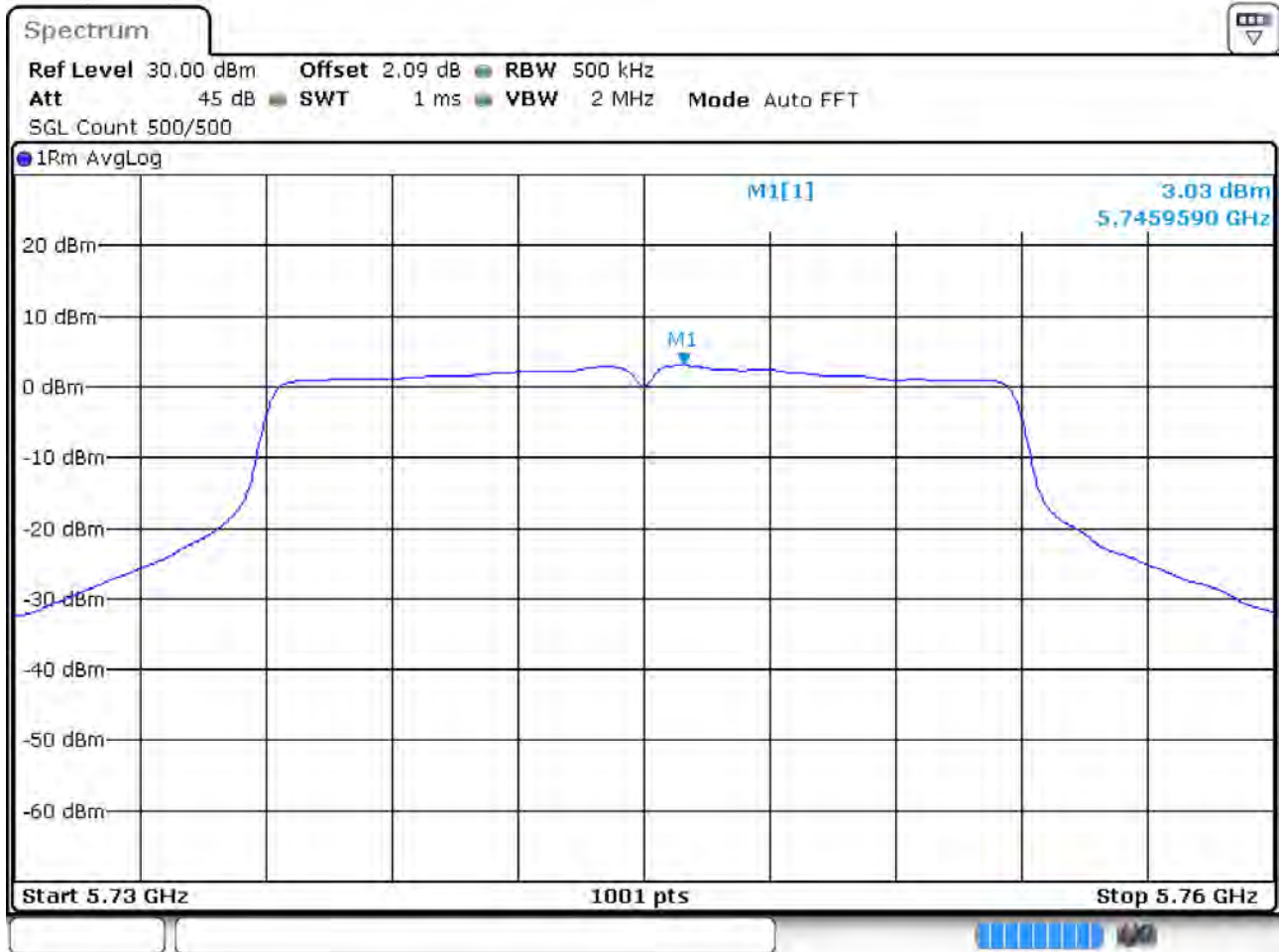


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4.8.2.43 11AC20_149 ANT 1



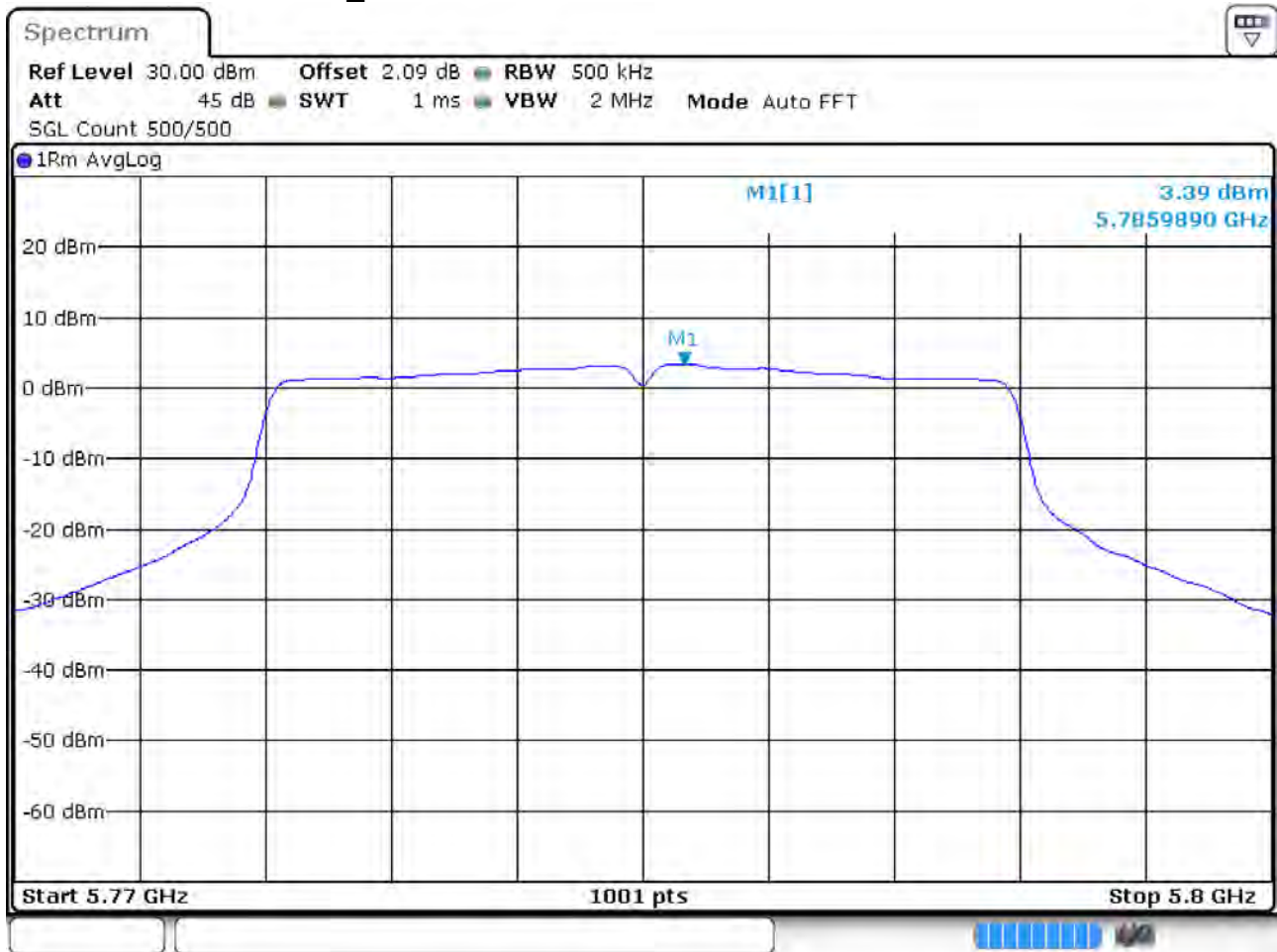
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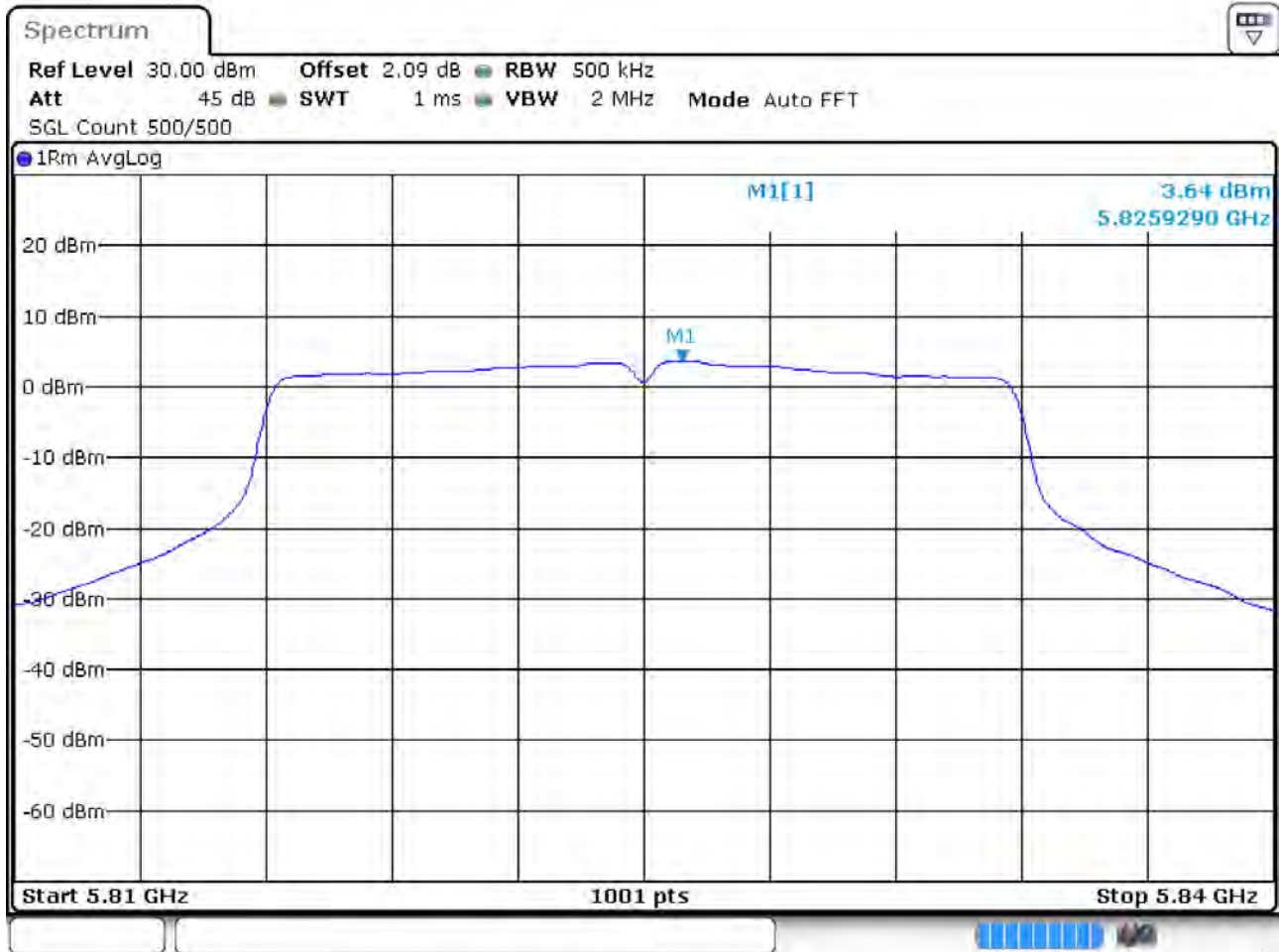


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4.8.2.45 11AC20_165 ANT 1



Date: 1 SEP 2020 21:31:34



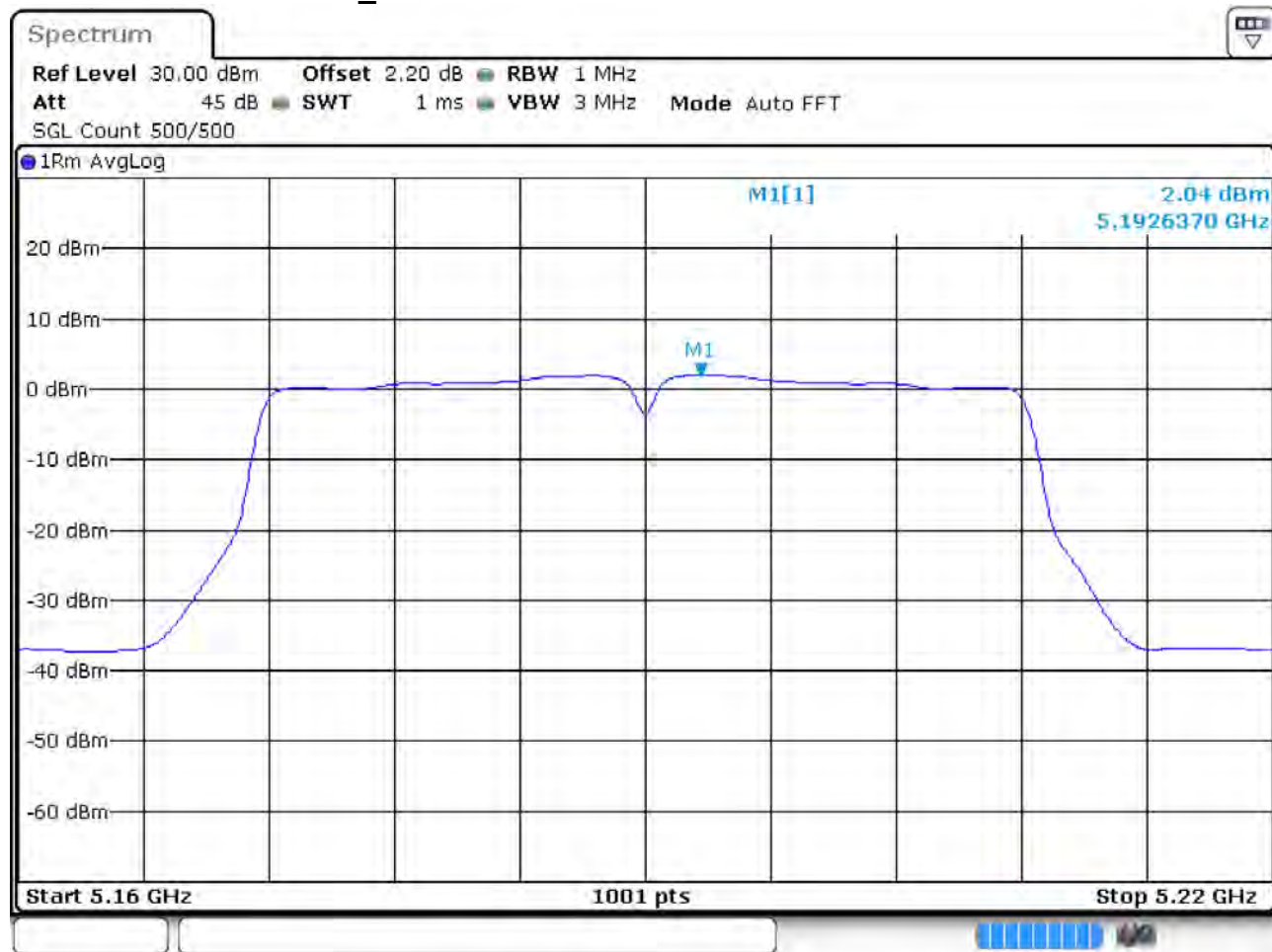
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4.8.2.46

11AC40_38 ANT 1



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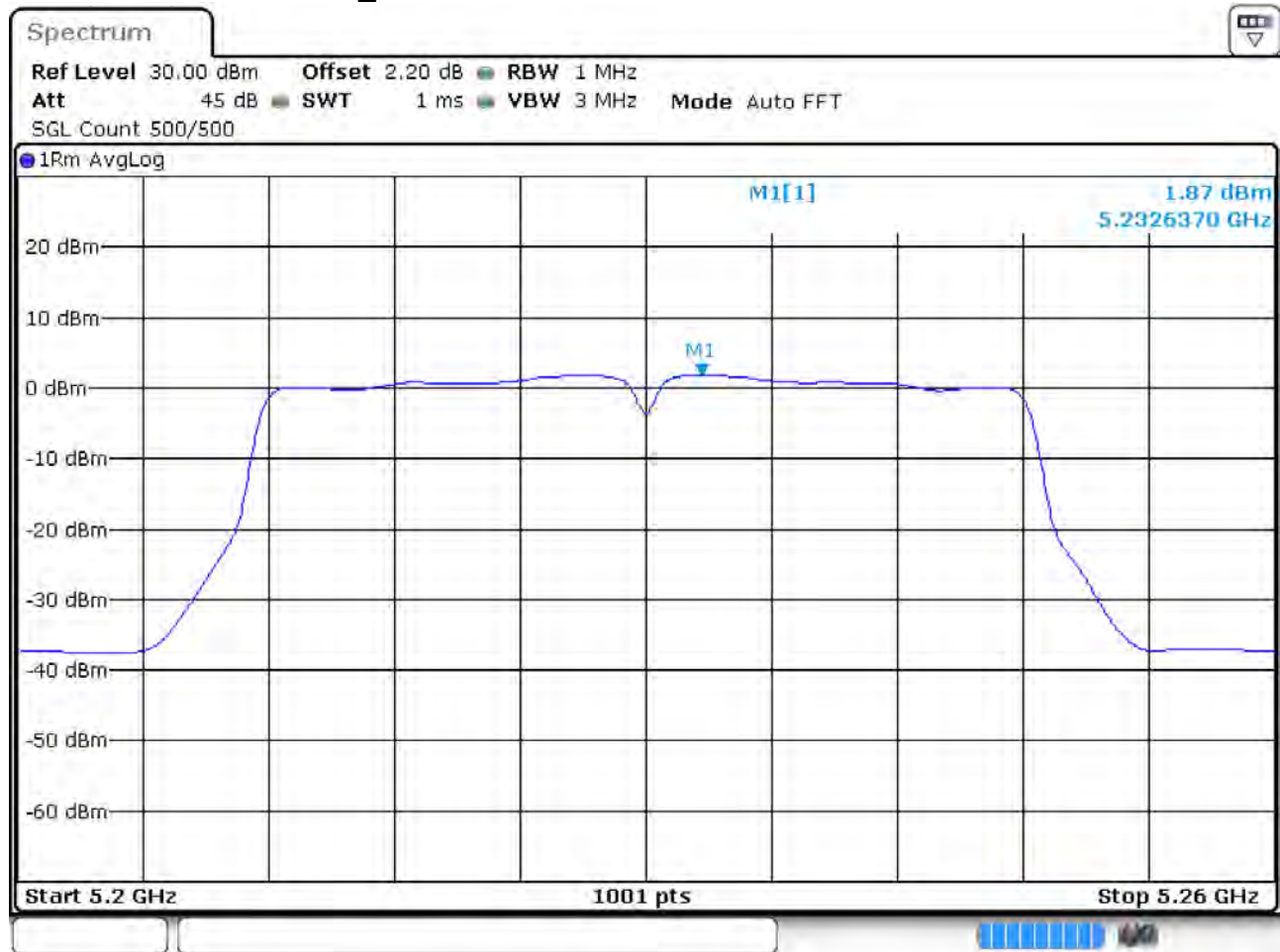


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4.8.2.47 11AC40_46 ANT 1



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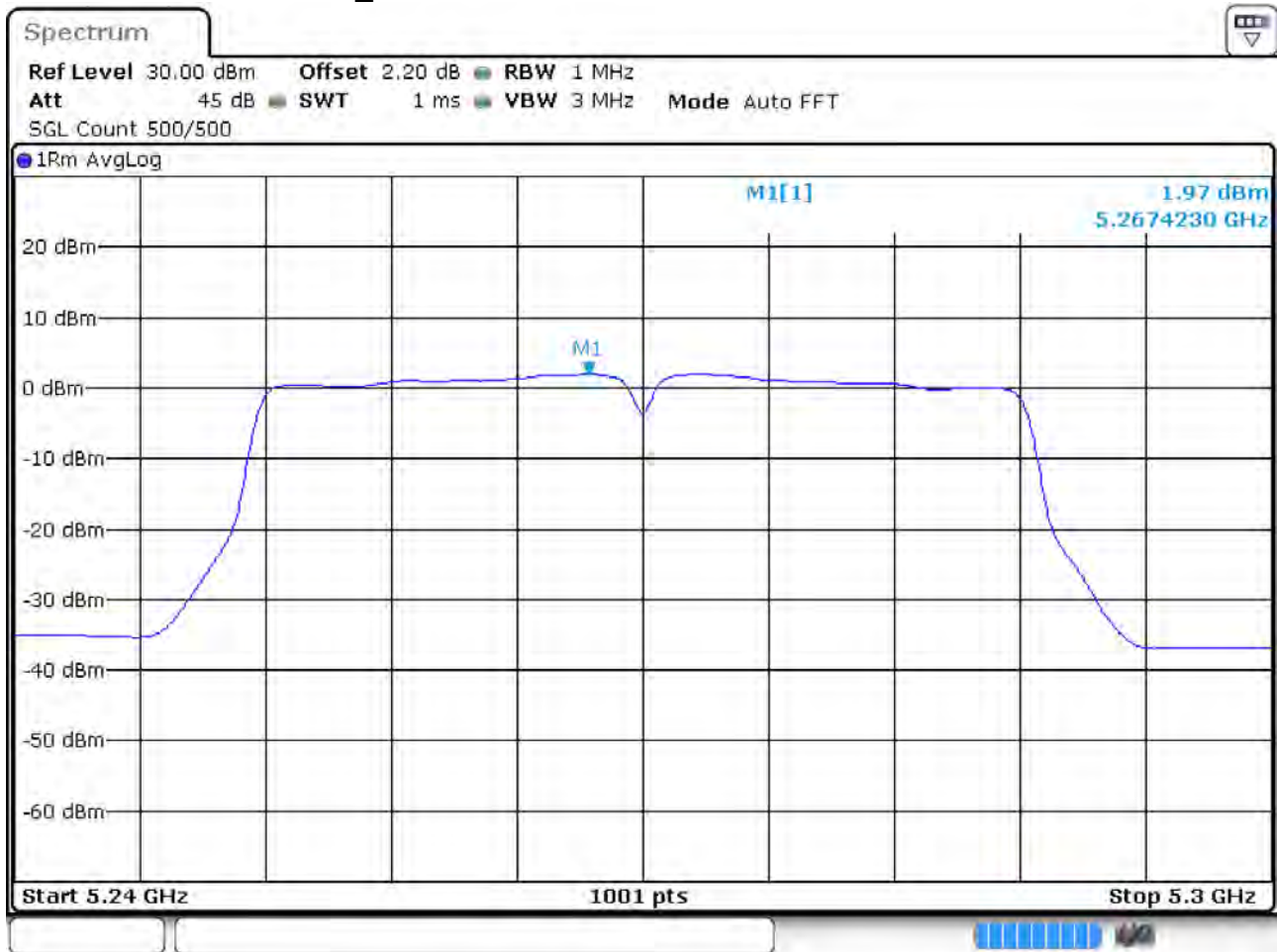
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4.8.2.48

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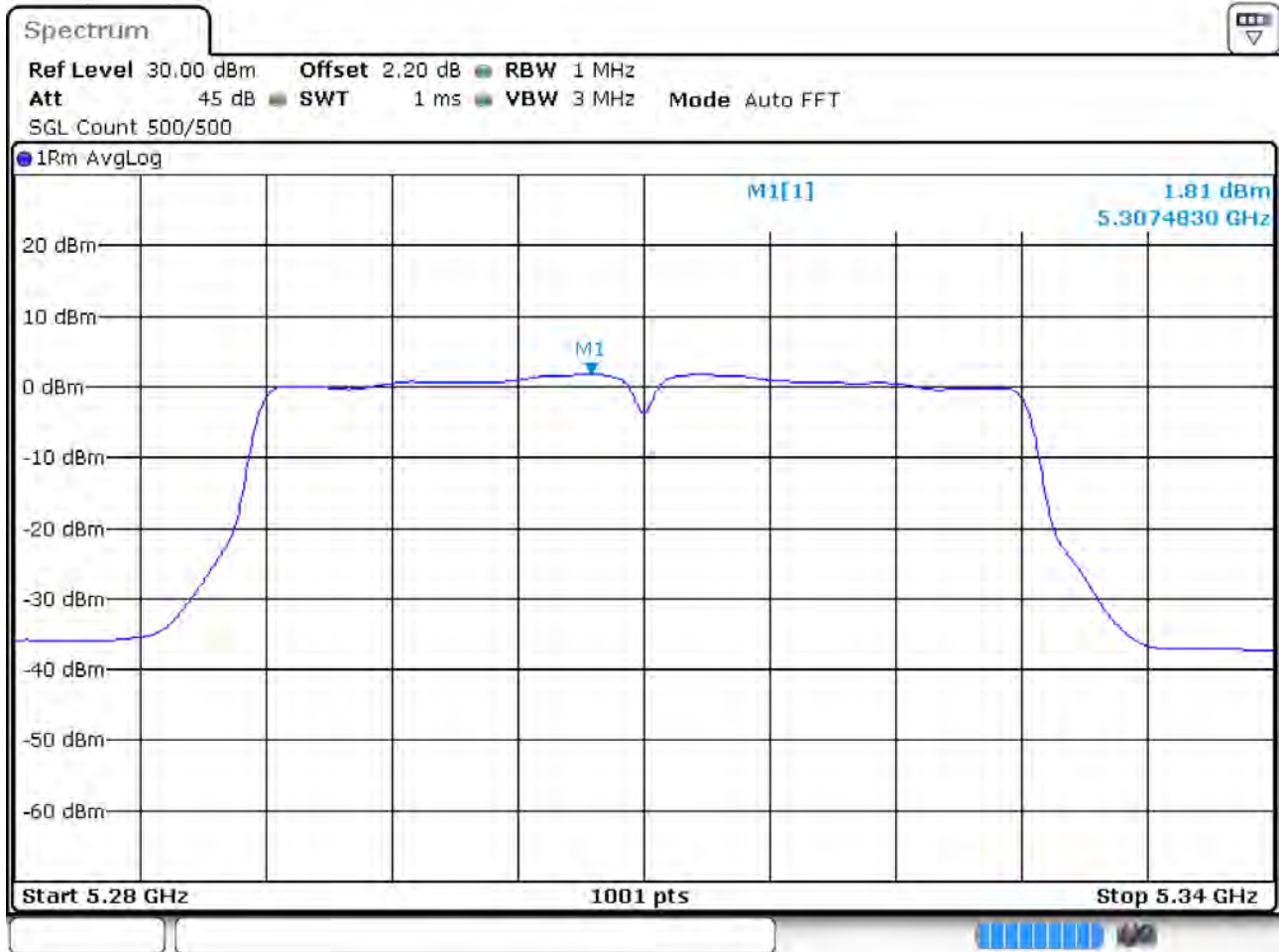


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4.8.2.49 11AC40_62 ANT 1



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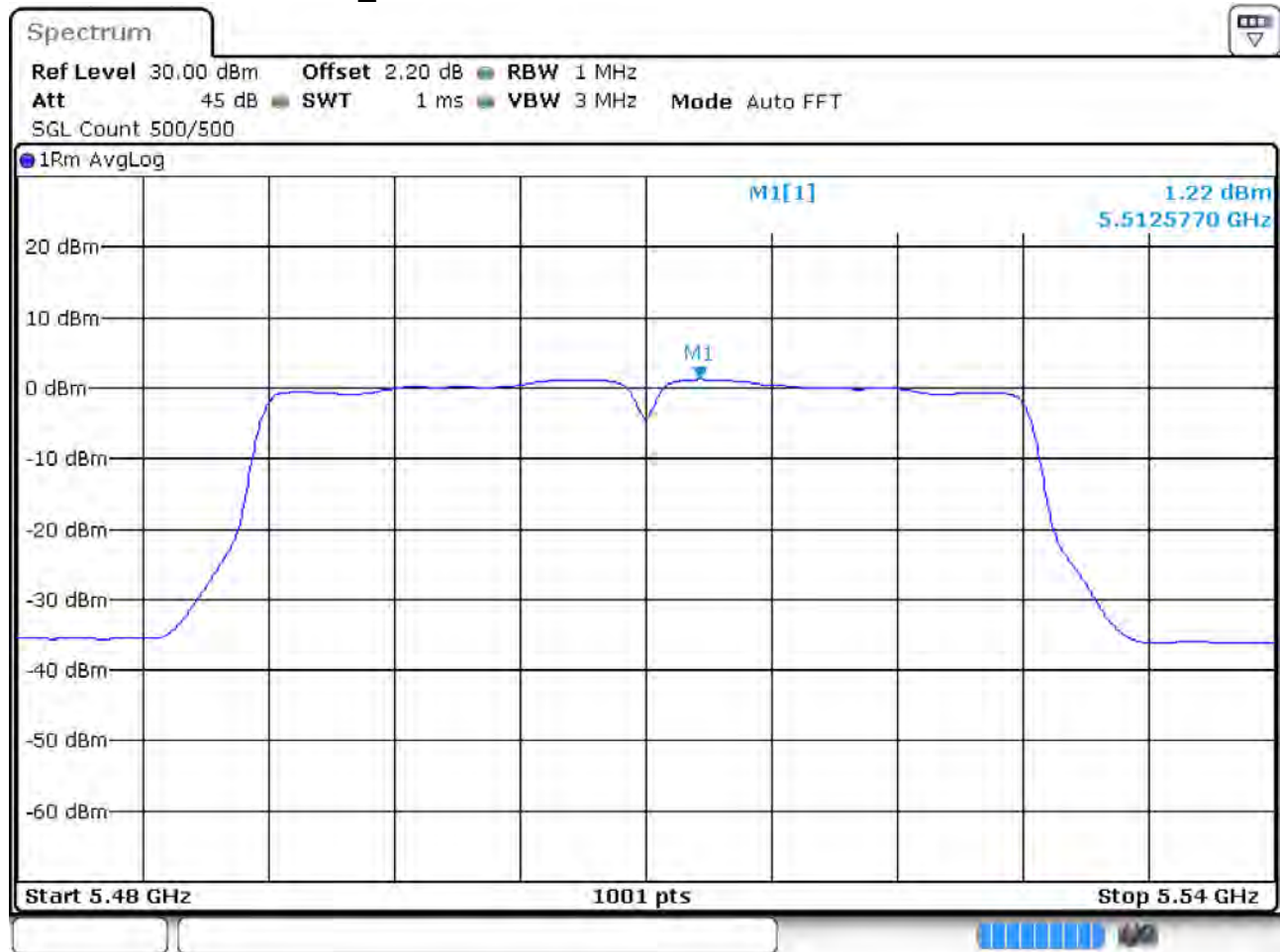


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4.8.2.50 11AC40_102 ANT 1



Date: 21.AUG.2020 18:33:49

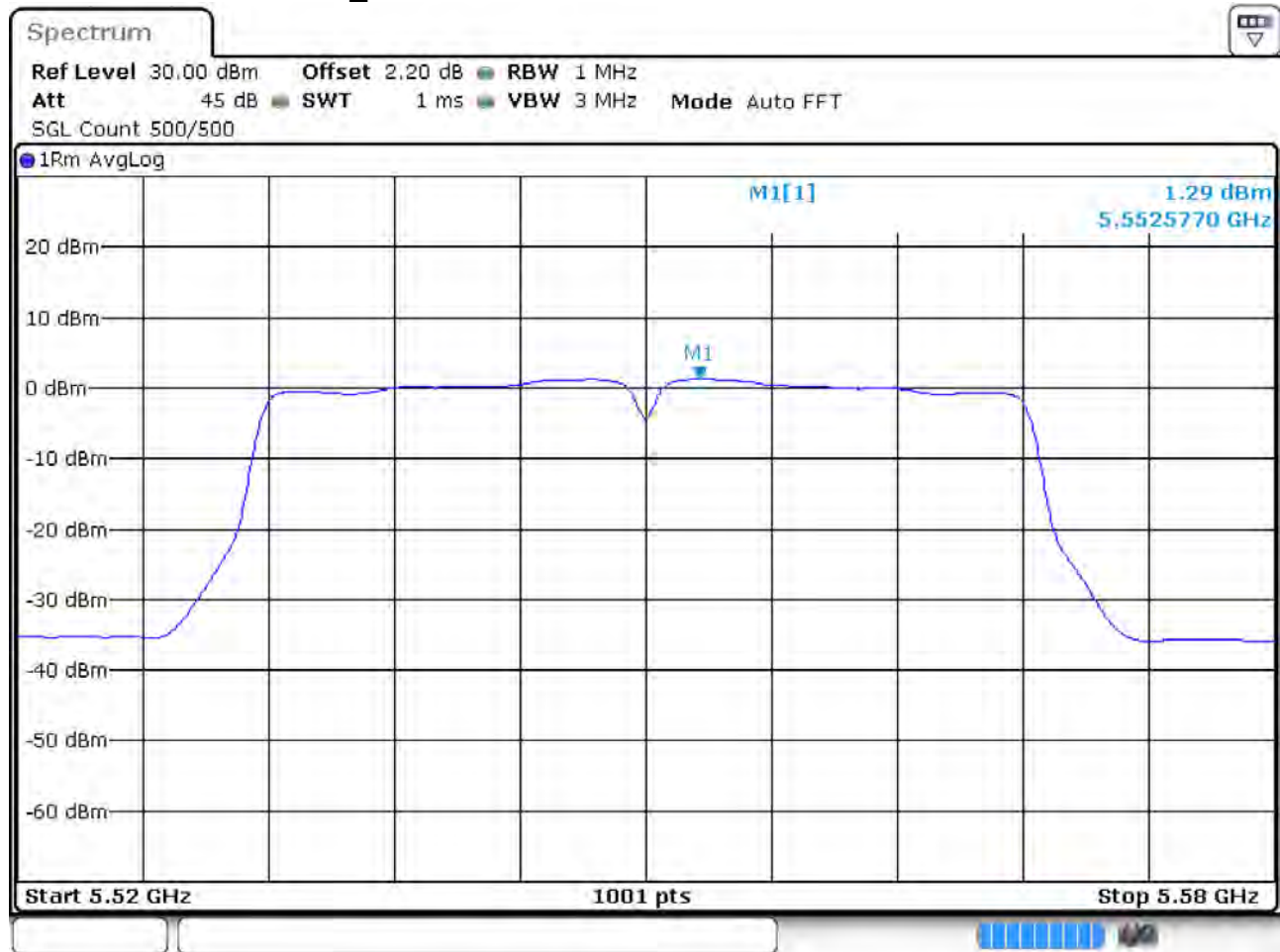


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4.8.2.51 11AC40_110 ANT 1



Date: 21.AUG.2020 18:36:07

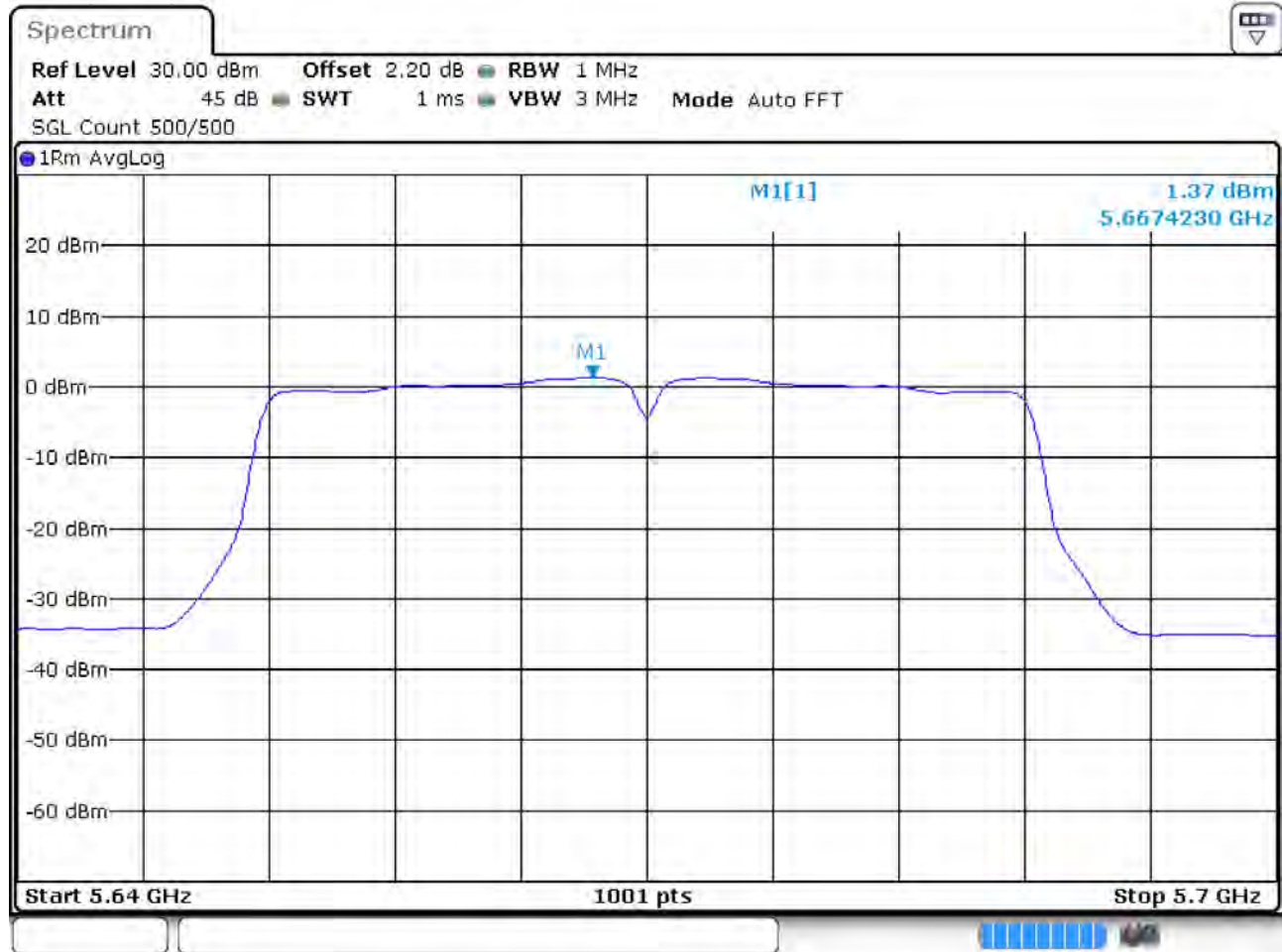


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4.8.2.52 11AC40_134 ANT 1



Date: 21.AUG.2020 18:38:21



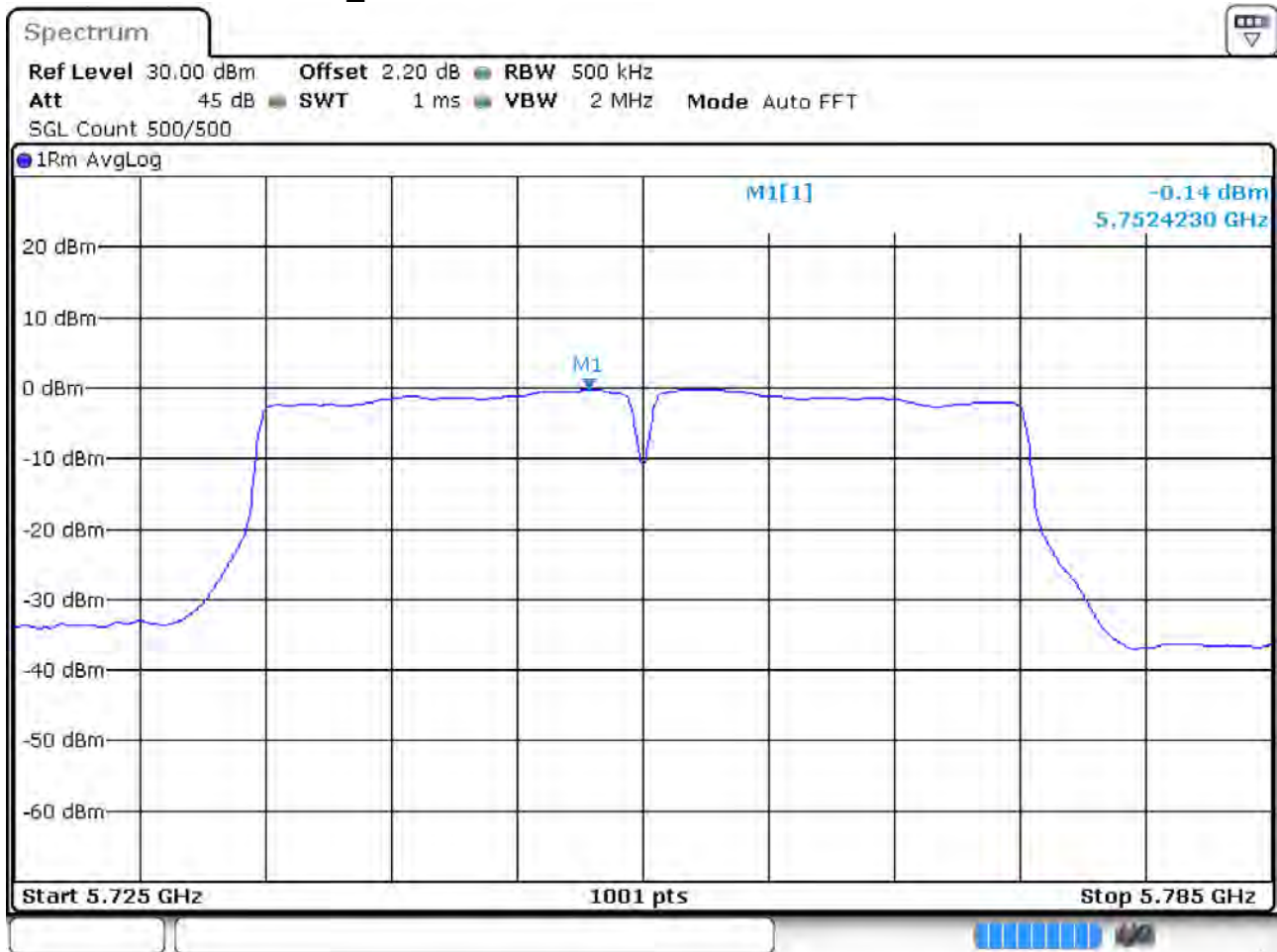
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4.8.2.53

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Date: 1 SEP 2020 21:36:20

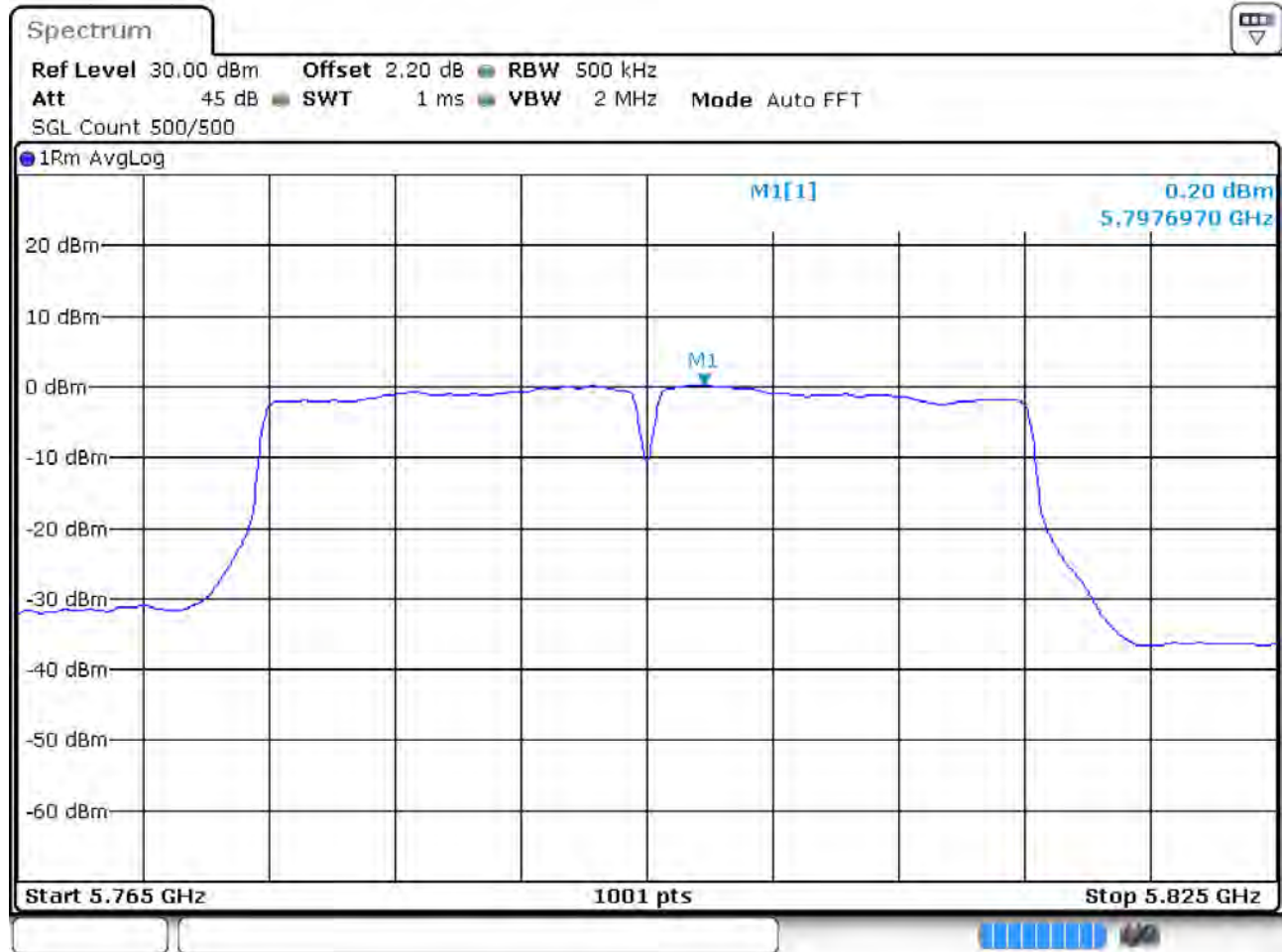


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4.8.2.54 11AC40_159 ANT 1



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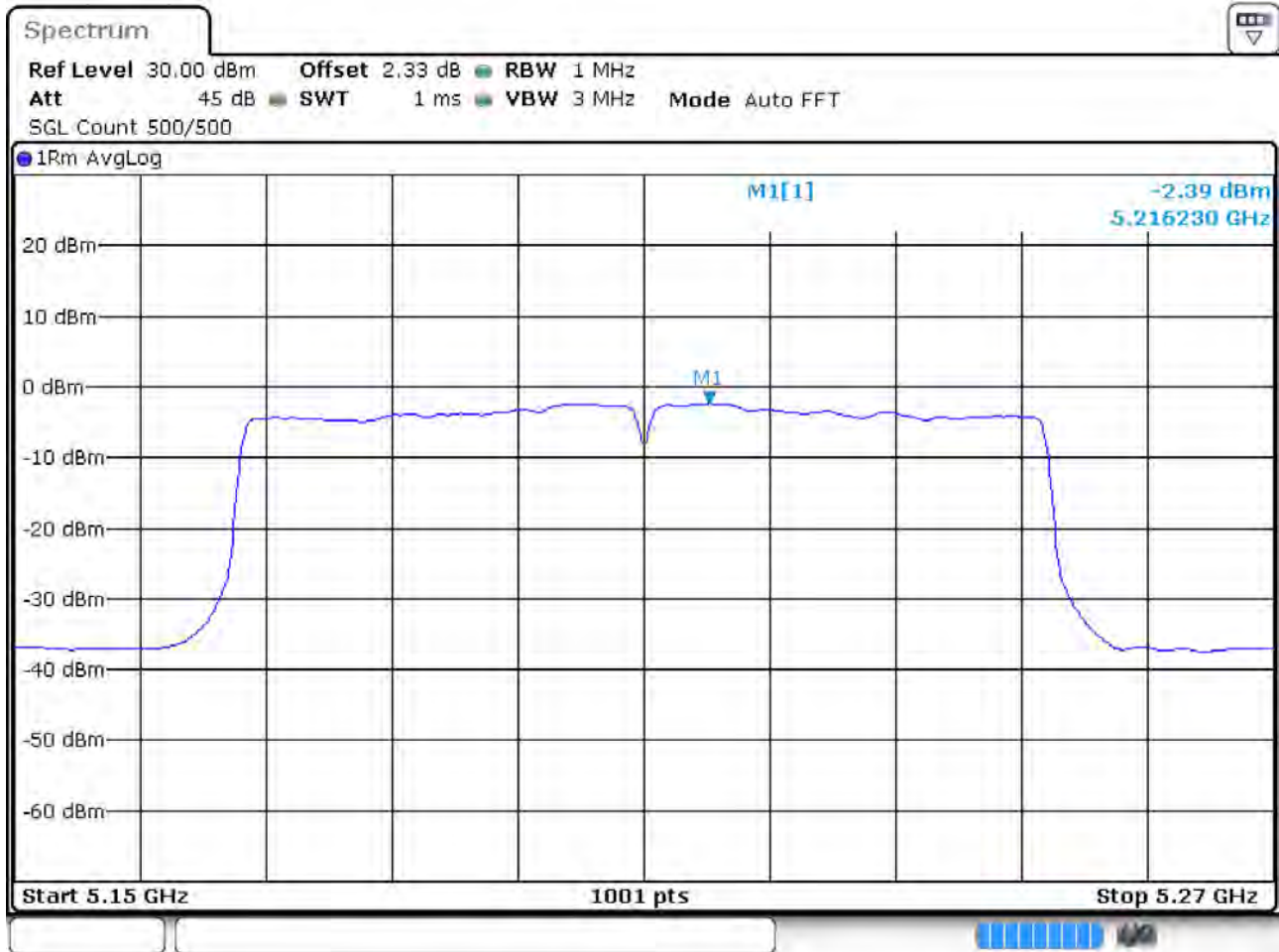


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4.8.2.55 11AC80_42 ANT 1



Date: 21.AUG.2020 18:46:54



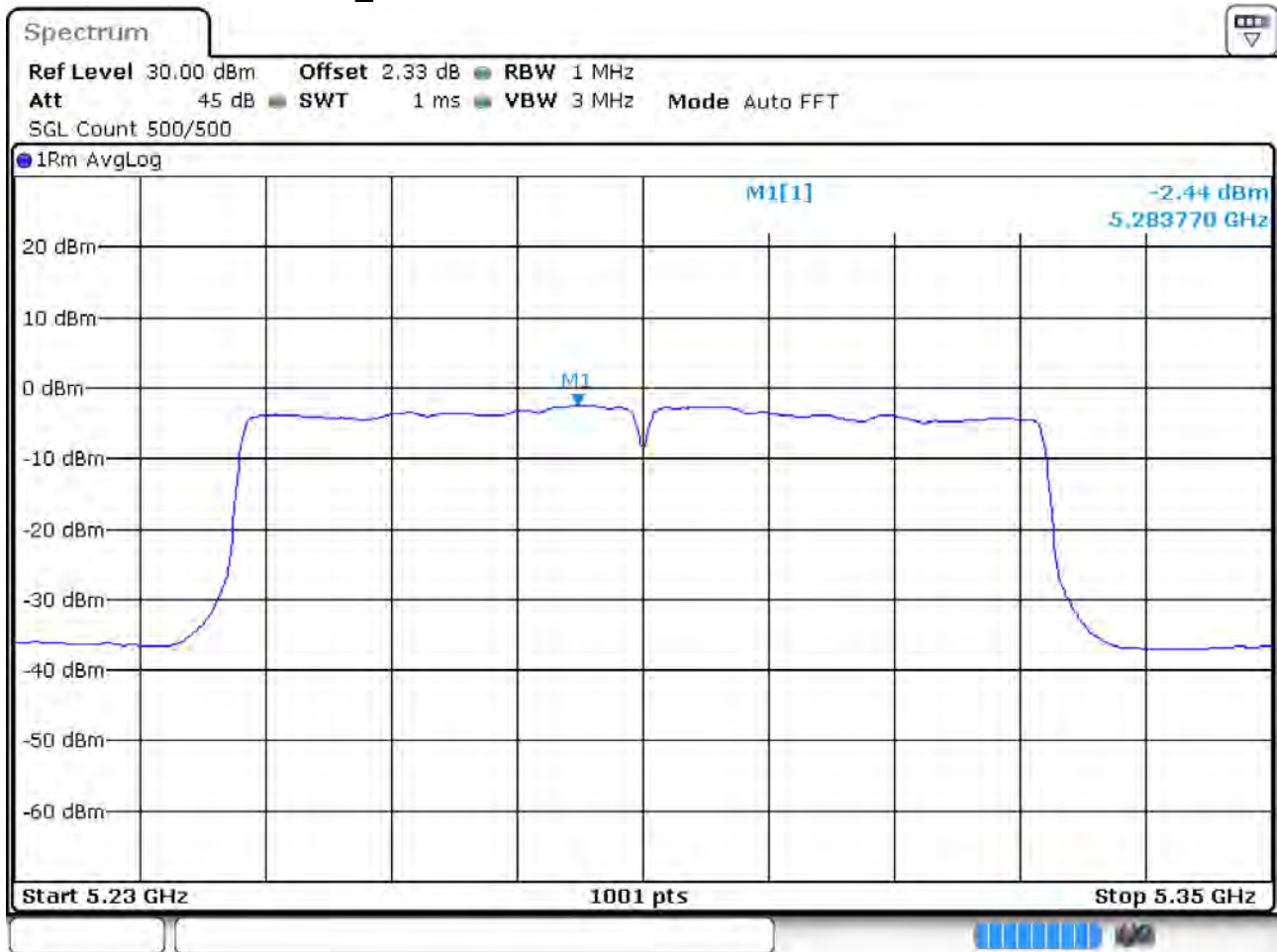
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4.8.2.56

11AC80_58 ANT 1



Date: 21.AUG.2020 18:53:11

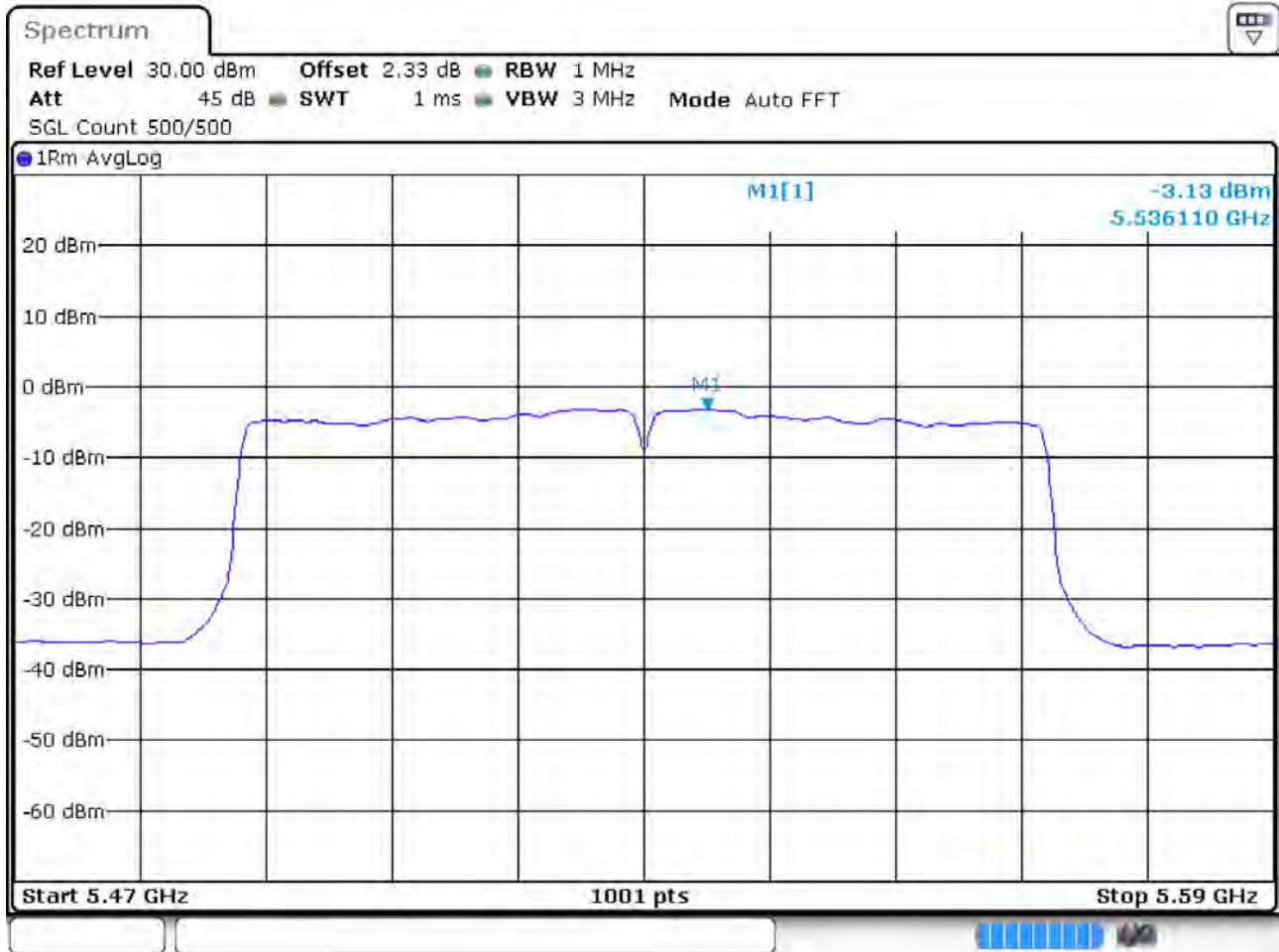


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4.8.2.57 11AC80_106 ANT 1



Date: 21.AUG.2020 18:56:20



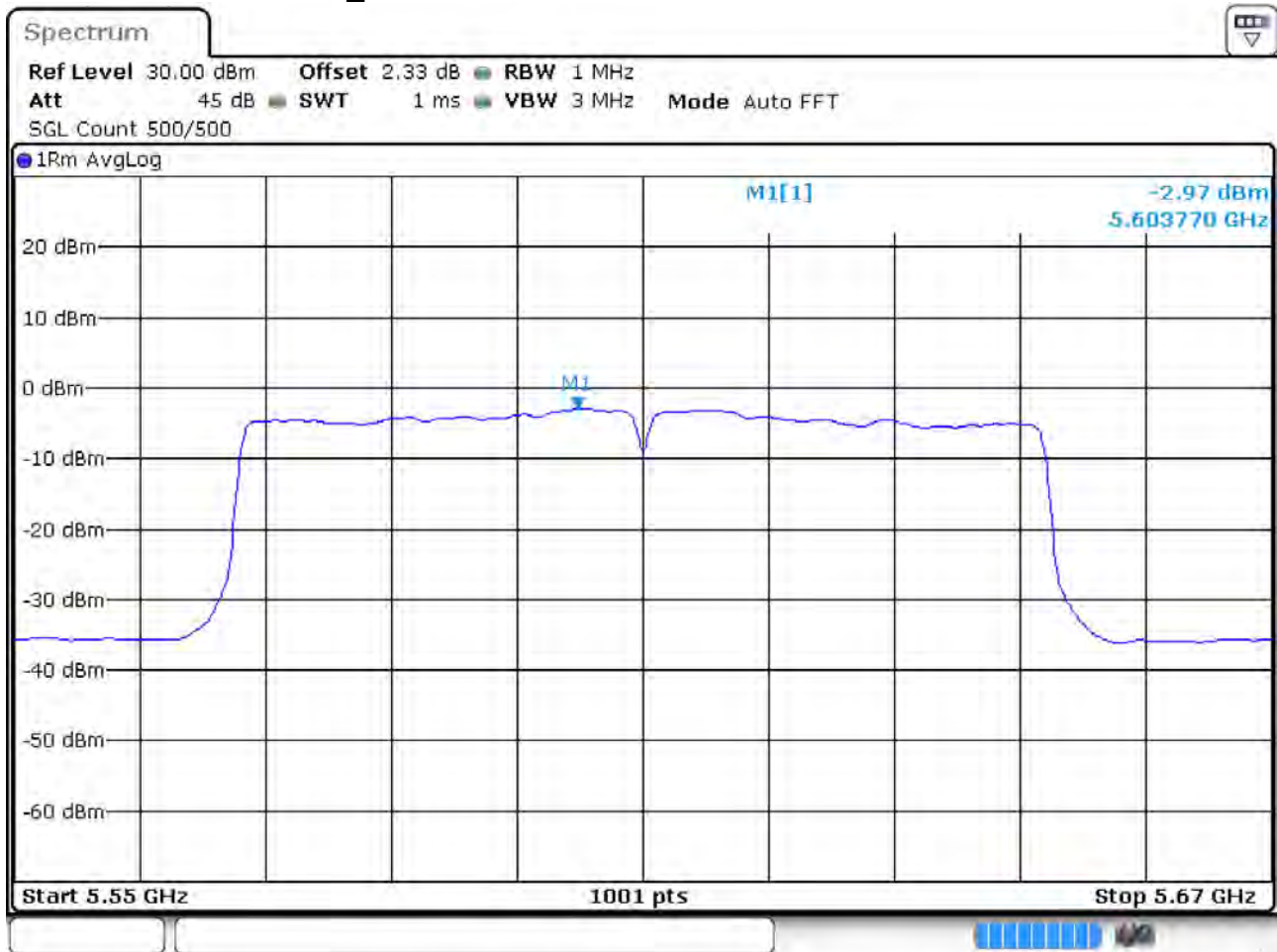
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Date: 21.AUG.2020 18:57:55



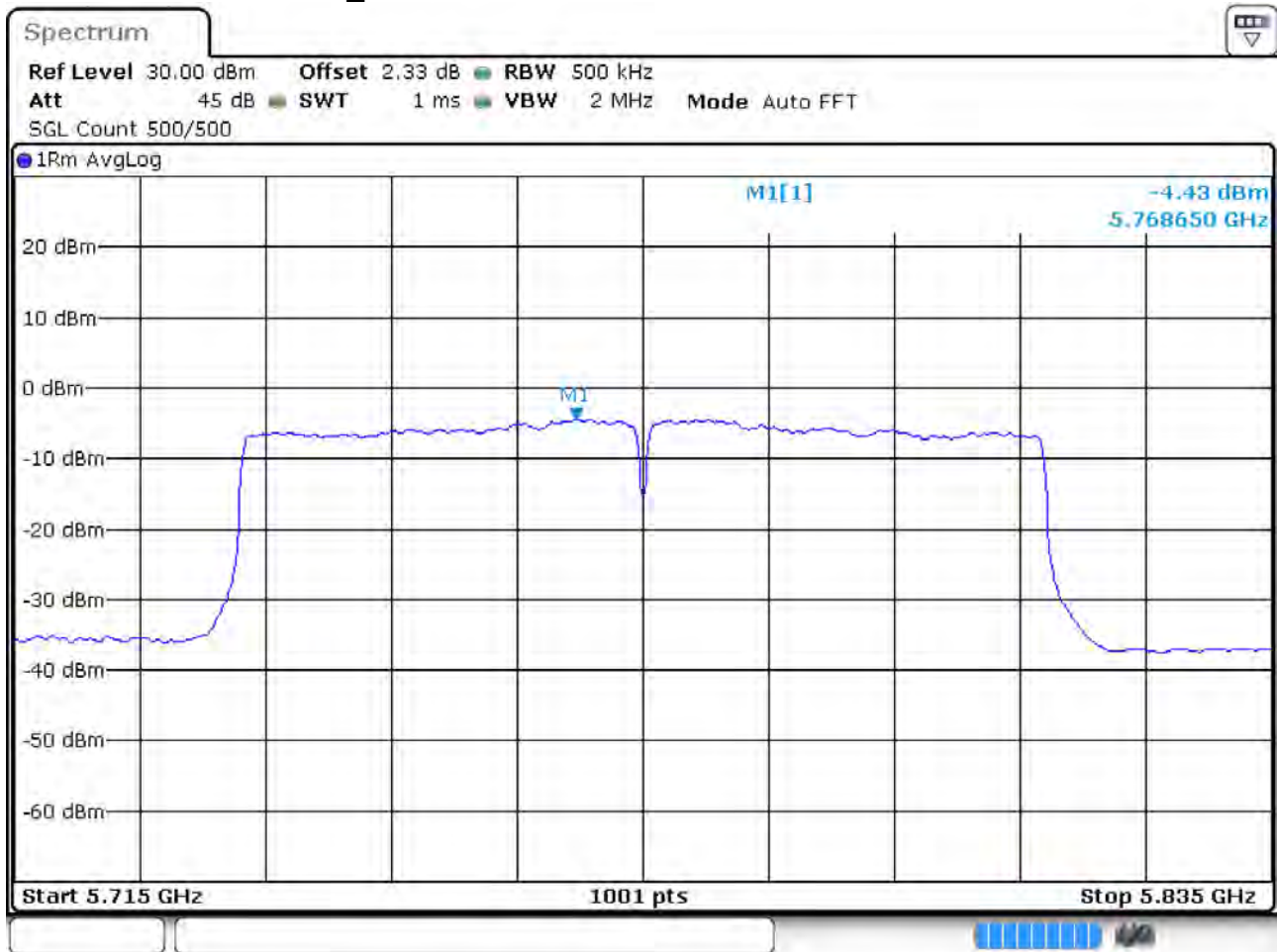
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4.8.2.59

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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:	

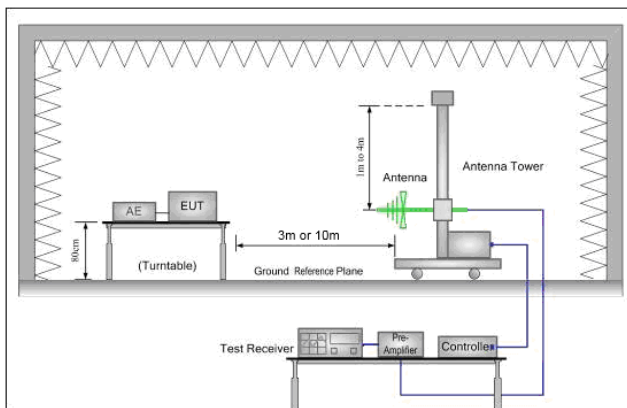


Figure 1. 30MHz to 1GHz

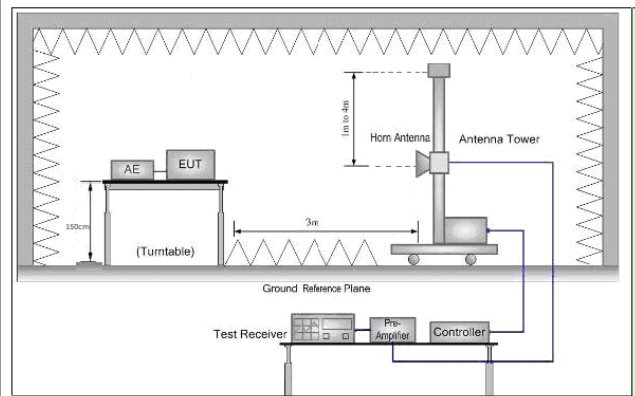


Figure 2. Above 1 GHz

Test Procedure:	- 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

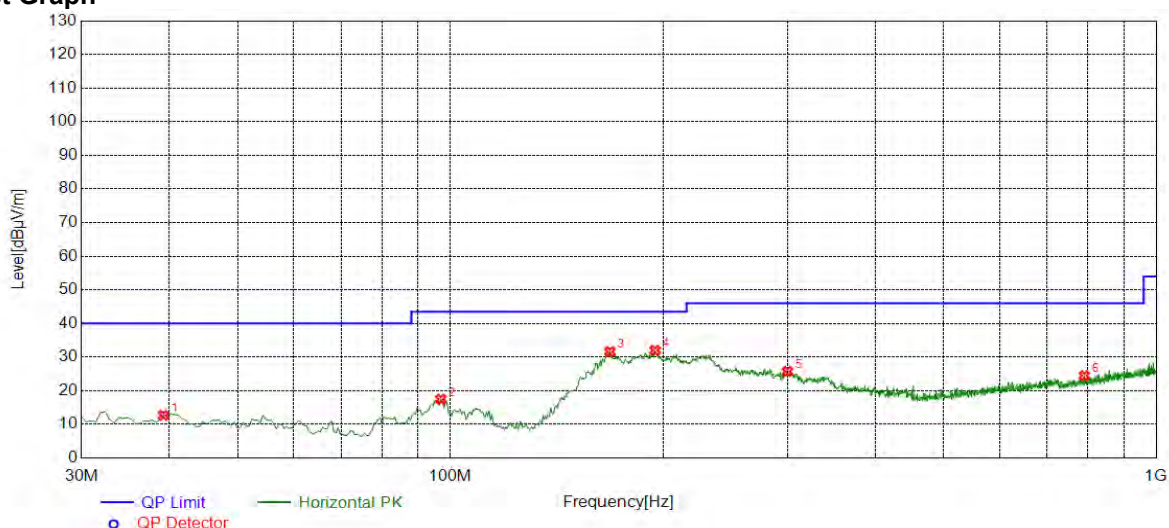


4.9.1 Radiated Emission below 1GHz

4.9.1.1 Charge + Transmitting

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	39.2196	12.67	-28.59	40.00	27.33	213	240	Horizontal
2	96.9635	17.48	-32.54	43.50	26.02	161	260	Horizontal
3	168.294	31.66	-34.14	43.50	11.84	125	213	Horizontal
4	194.982	32.03	-31.72	43.50	11.47	245	18	Horizontal
5	300.280	25.74	-28.25	46.00	20.26	207	70	Horizontal
6	790.860	24.46	-17.89	46.00	21.54	233	95	Horizontal

Final Data List



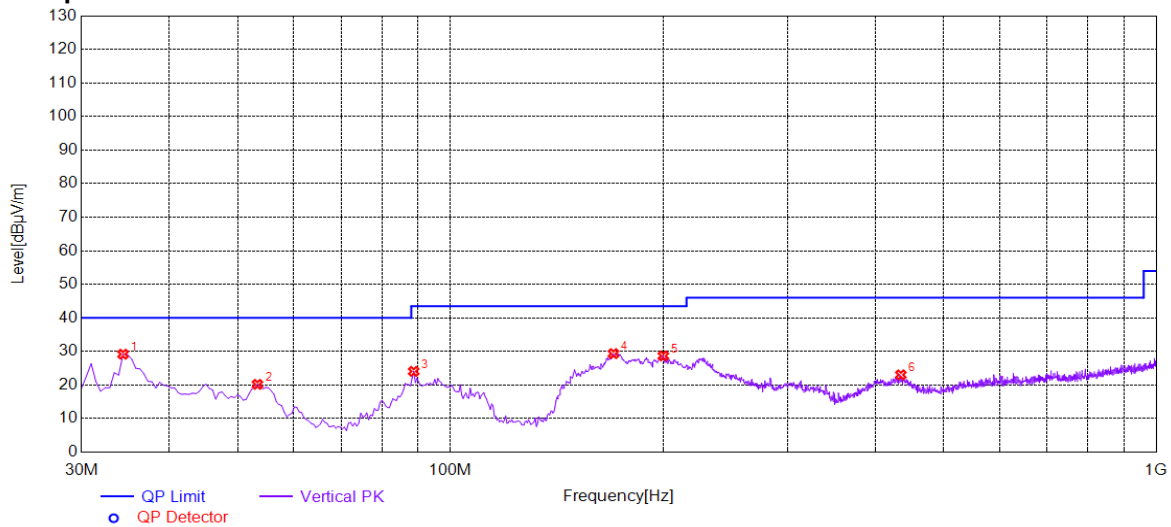
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Project Information			
Mode:	5G WIFI	State:	
Environment:	Temp: 25°C; Humi:60%	Engineer:	

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.3672	29.19	-29.98	40.00	10.81	220	14	Vertical
2	53.2916	20.21	-30.86	40.00	19.79	194	14	Vertical
3	88.7144	24.08	-34.03	43.50	19.42	202	222	Vertical
4	170.235	29.37	-34.02	43.50	14.13	293	192	Vertical
5	200.320	28.69	-31.17	43.50	14.81	282	308	Vertical
6	434.692	23.05	-24.71	46.00	22.95	228	303	Vertical

Final Data List

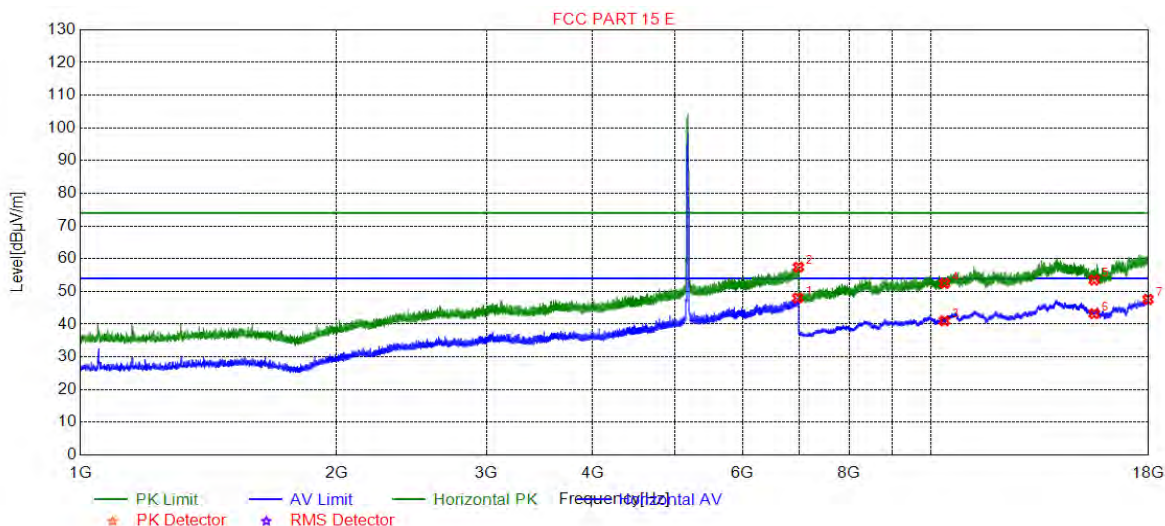


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4.9.2 Transmitter emission above 1GHz
4.9.2.1 802.11A_Channel 36



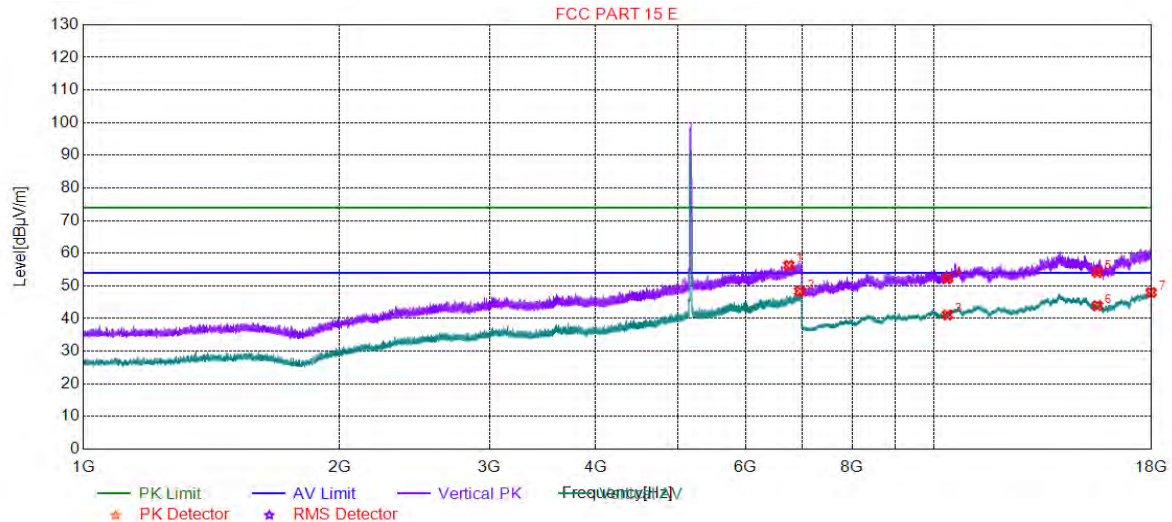
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6966.39	48.02	21.26	54.00	5.98	208	221	Horizontal
2	6979.29	57.44	21.26	74.00	16.56	243	69	Horizontal
3	10360.0	41.02	-3.63	54.00	12.98	101	360	Horizontal
4	10360.0	52.49	-3.63	74.00	21.51	241	119	Horizontal
5	15540.0	53.51	0.46	74.00	20.49	168	319	Horizontal
6	15540.0	43.21	0.46	54.00	10.79	173	269	Horizontal
7	17968.6	47.60	1.71	54.00	6.40	130	219	Horizontal

Final Data List



4.9.2.2 802.11A_Channel 36



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6744.98	56.33	20.56	74.00	17.67	288	41	Vertical
2	6946.89	48.38	21.23	54.00	5.62	209	291	Vertical
3	10360.0	41.12	-3.63	54.00	12.88	201	141	Vertical
4	10360.0	52.33	-3.63	74.00	21.67	242	342	Vertical
5	15540.0	54.13	0.46	74.00	19.87	158	192	Vertical
6	15540.0	43.95	0.46	54.00	10.05	165	242	Vertical
7	17977.4	47.99	1.71	54.00	6.01	169	141	Vertical

Final Data List



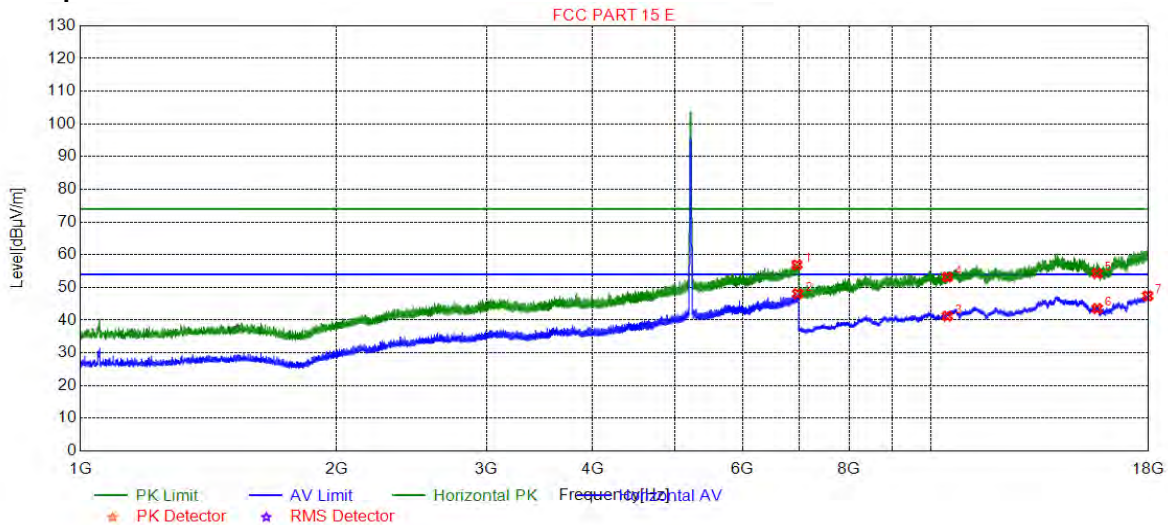
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4.9.2.3 802.11A_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6951.09	56.95	21.26	74.00	17.05	111	18	Horizontal
2	6966.99	48.09	21.26	54.00	5.91	190	68	Horizontal
3	10440.0	41.23	-3.24	54.00	12.77	133	18	Horizontal
4	10440.0	53.17	-3.24	74.00	20.83	156	268	Horizontal
5	15660.0	54.29	0.43	74.00	19.71	155	118	Horizontal
6	15660.0	43.53	0.43	54.00	10.47	230	168	Horizontal
7	17951.0	47.44	1.71	54.00	6.56	225	118	Horizontal

Final Data List



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