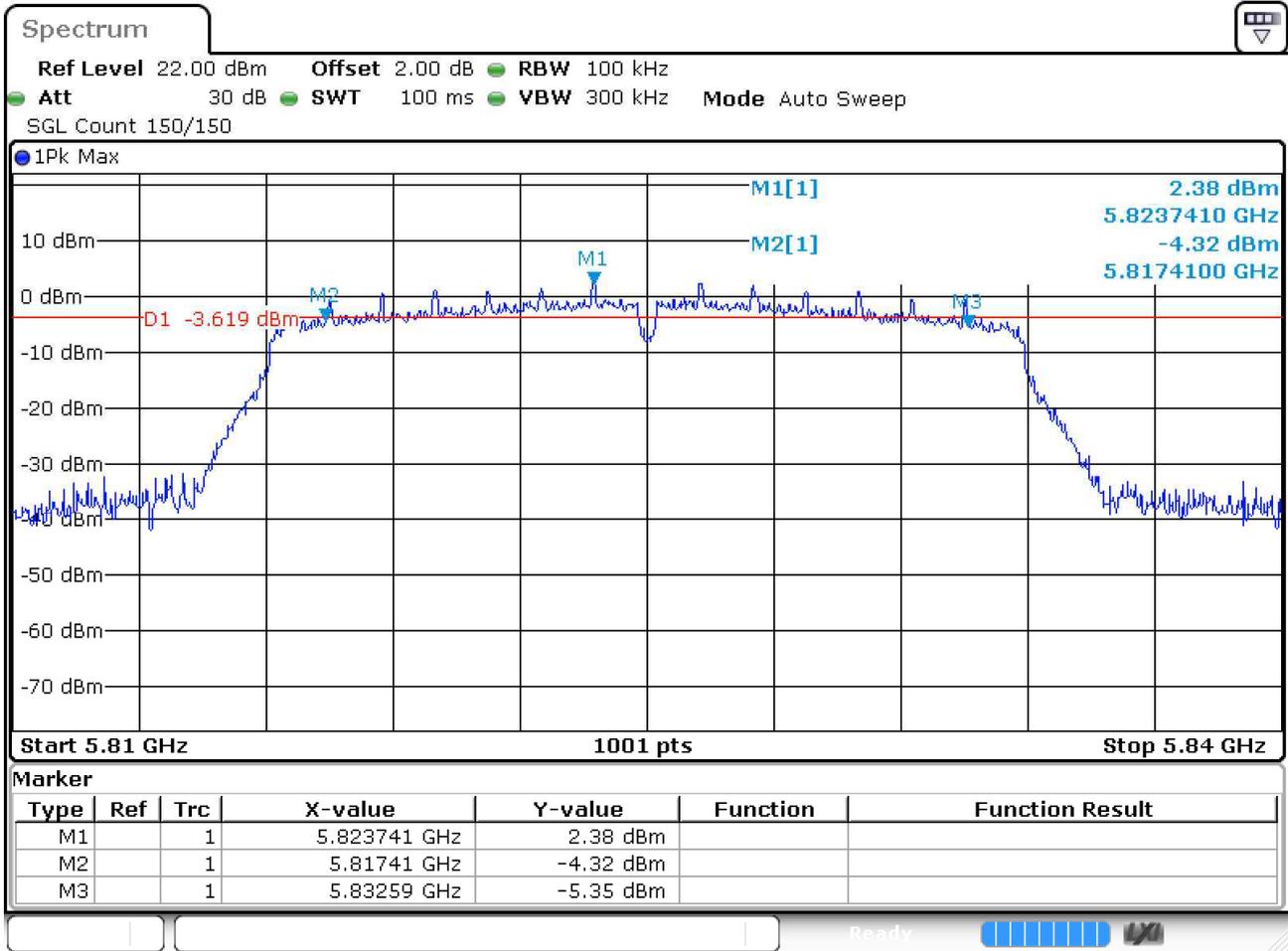


4.6.2.10 11AC20_165 ANT 1



Date: 19.AUG.2020 15:38:29

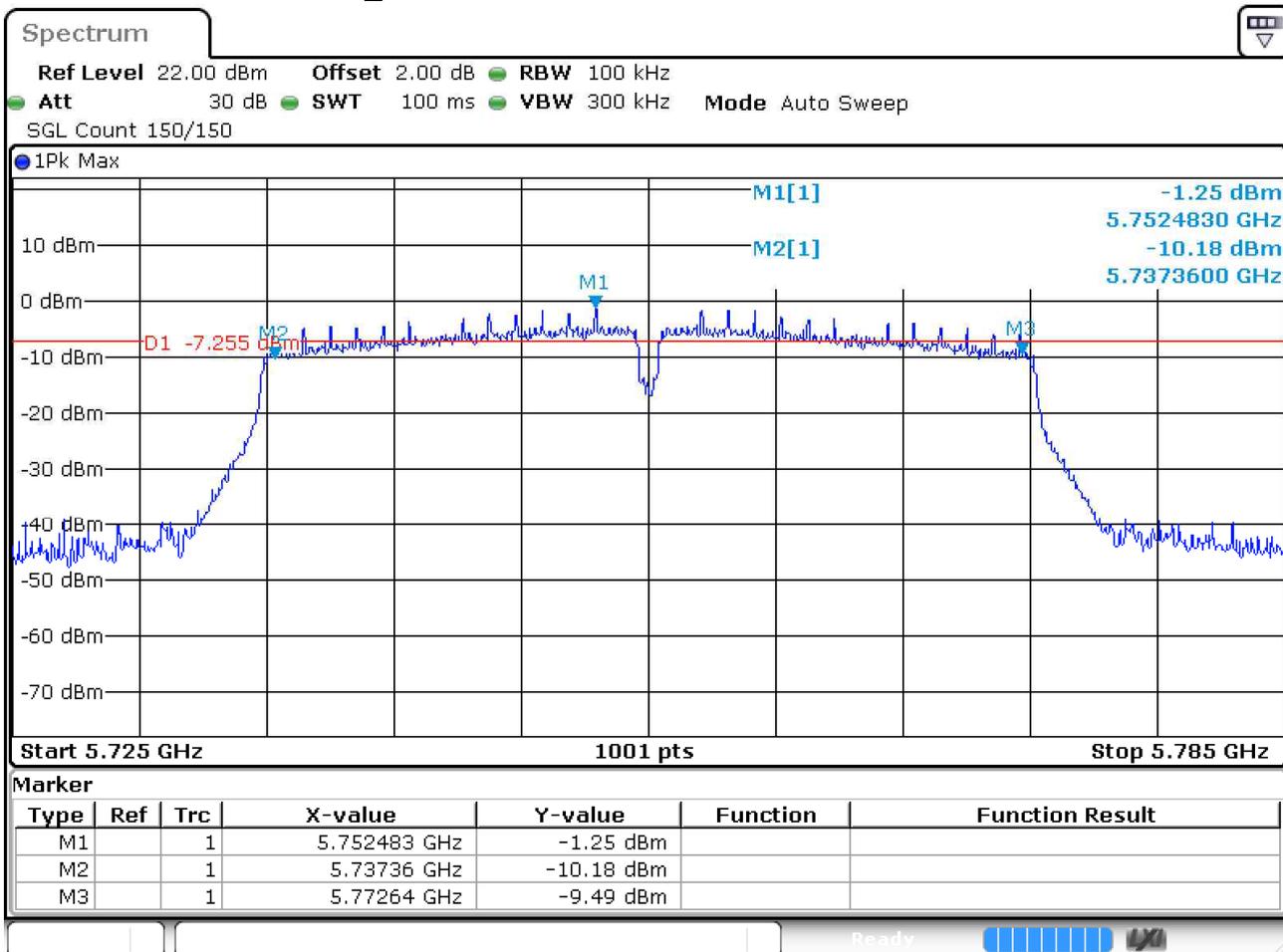


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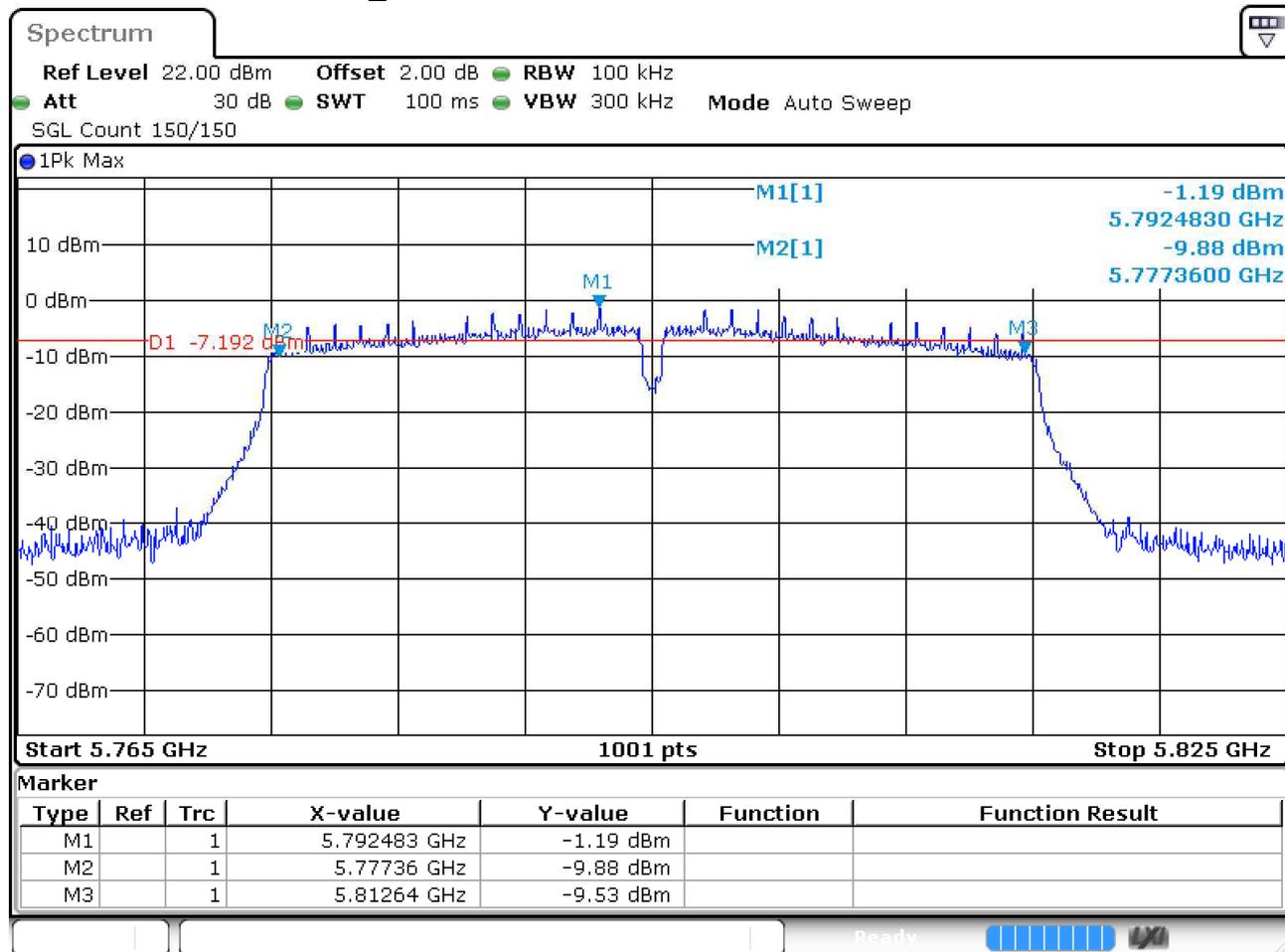
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4.6.2.12 11AC40_159 ANT 1



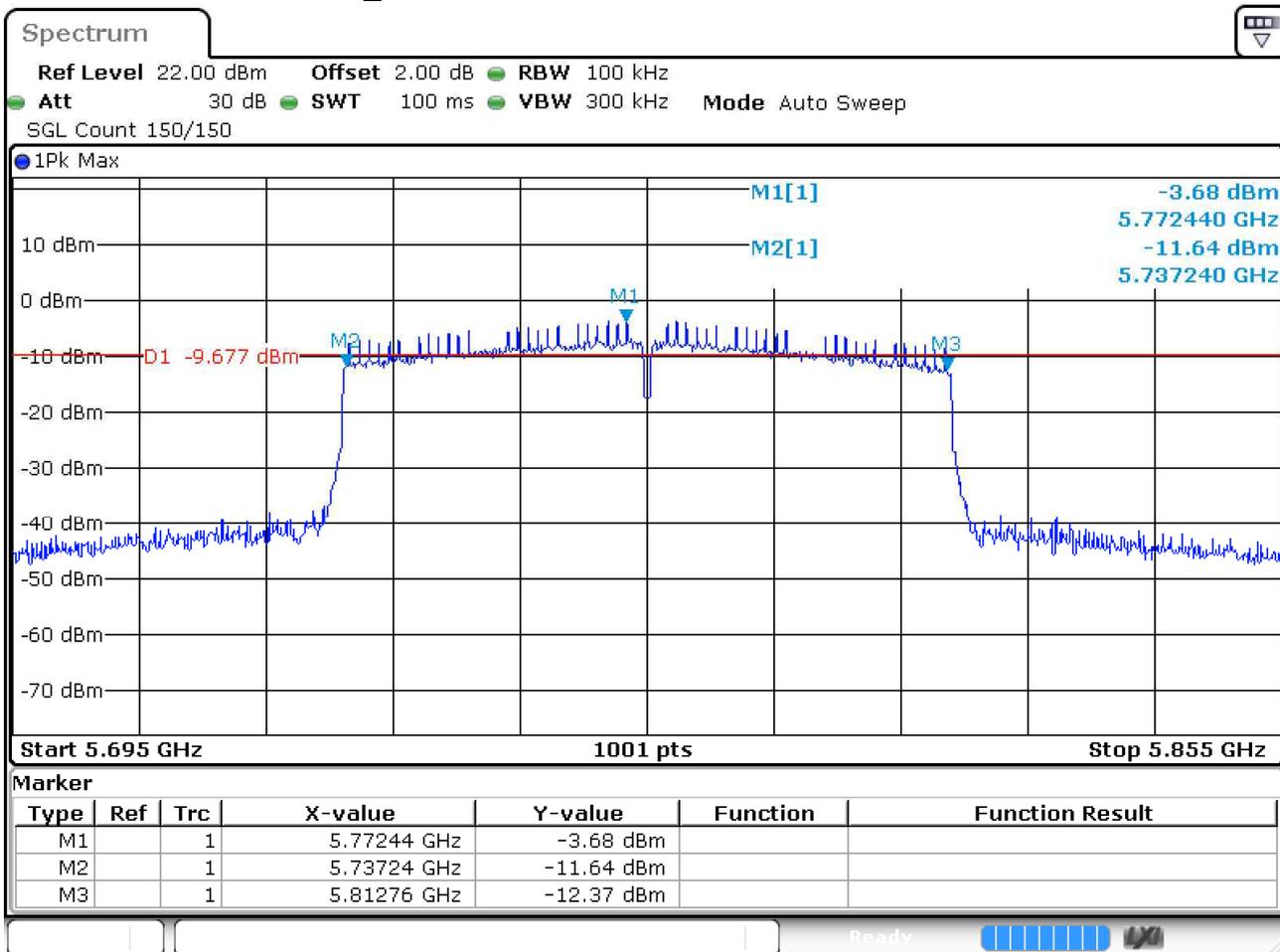
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4.6.2.13 11AC80_155 ANT 1



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4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
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 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.</p>	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	





4.7.1 Test Results for 99% Occupied Bandwidth

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	16.8132	PASS
	44	5220	ANT 1	16.8432	PASS
	48	5240	ANT 1	16.8132	PASS
	52	5260	ANT 1	16.8432	PASS
	60	5300	ANT 1	16.8432	PASS
	64	5320	ANT 1	16.8432	PASS
	100	5500	ANT 1	16.8432	PASS
	116	5580	ANT 1	16.8731	PASS
	140	5700	ANT 1	16.8432	PASS
	149	5745	ANT 1	16.9331	PASS
	157	5785	ANT 1	16.9031	PASS
	165	5825	ANT 1	16.9031	PASS
11N20	36	5180	ANT 1	17.8322	PASS
	44	5220	ANT 1	17.8621	PASS
	48	5240	ANT 1	17.8621	PASS
	52	5260	ANT 1	17.8621	PASS
	60	5300	ANT 1	17.8322	PASS
	64	5320	ANT 1	17.8621	PASS
	100	5500	ANT 1	17.8921	PASS
	116	5580	ANT 1	17.8921	PASS
	140	5700	ANT 1	17.9221	PASS
	149	5745	ANT 1	17.9221	PASS
	157	5785	ANT 1	17.9221	PASS
	165	5825	ANT 1	17.8921	PASS
11N40	38	5190	ANT 1	36.2038	PASS
	46	5230	ANT 1	36.2038	PASS
	54	5270	ANT 1	36.2038	PASS
	62	5310	ANT 1	36.2038	PASS
	102	5510	ANT 1	36.1439	PASS
	110	5550	ANT 1	36.2038	PASS
	134	5670	ANT 1	36.2038	PASS
	151	5755	ANT 1	36.2637	PASS
	159	5795	ANT 1	36.2637	PASS
11AC20	36	5180	ANT 1	17.7722	PASS
	44	5220	ANT 1	17.7722	PASS
	48	5240	ANT 1	17.7423	PASS



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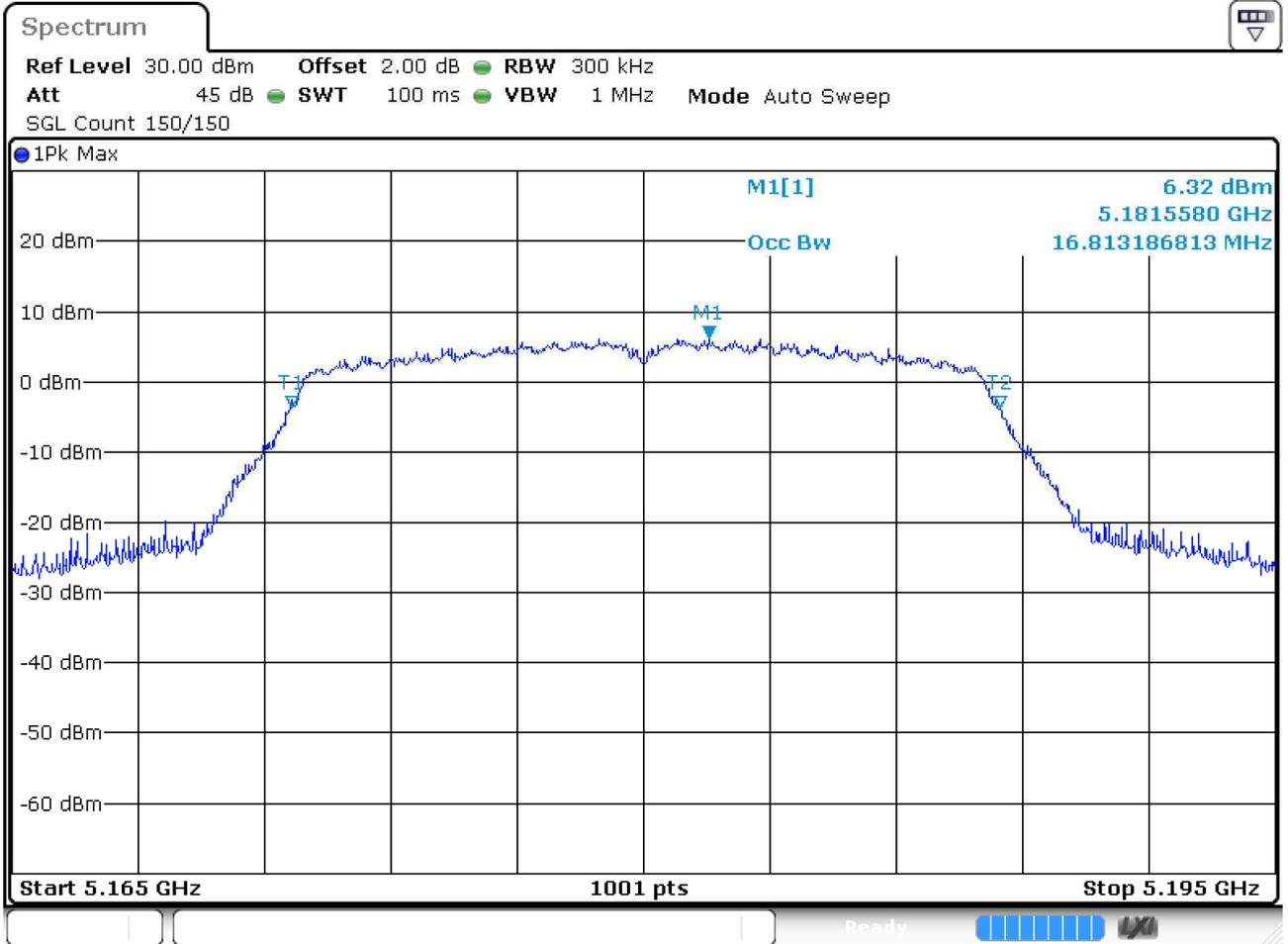
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	60	5300	ANT 1	17.7423	PASS
	64	5320	ANT 1	17.7423	PASS
	100	5500	ANT 1	17.7423	PASS
	116	5580	ANT 1	17.7722	PASS
	140	5700	ANT 1	17.7423	PASS
	149	5745	ANT 1	17.7722	PASS
	157	5785	ANT 1	17.7722	PASS
	165	5825	ANT 1	17.7722	PASS
11AC40	38	5190	ANT 1	36.2637	PASS
	46	5230	ANT 1	36.1439	PASS
	54	5270	ANT 1	36.0839	PASS
	62	5310	ANT 1	36.2038	PASS
	102	5510	ANT 1	36.2038	PASS
	110	5550	ANT 1	36.2038	PASS
	134	5670	ANT 1	36.2038	PASS
	151	5755	ANT 1	36.1439	PASS
	159	5795	ANT 1	36.1439	PASS
11AC80	42	5210	ANT 1	75.2847	PASS
	58	5290	ANT 1	75.2847	PASS
	106	5530	ANT 1	75.4046	PASS
	122	5610	ANT 1	75.1648	PASS
	138	5690	ANT 1	75.2847	PASS
	155	5775	ANT 1	75.1648	PASS





4.7.2 Plots for 99% Occupied Bandwidth

4.7.2.1 11A20_36 ANT 1

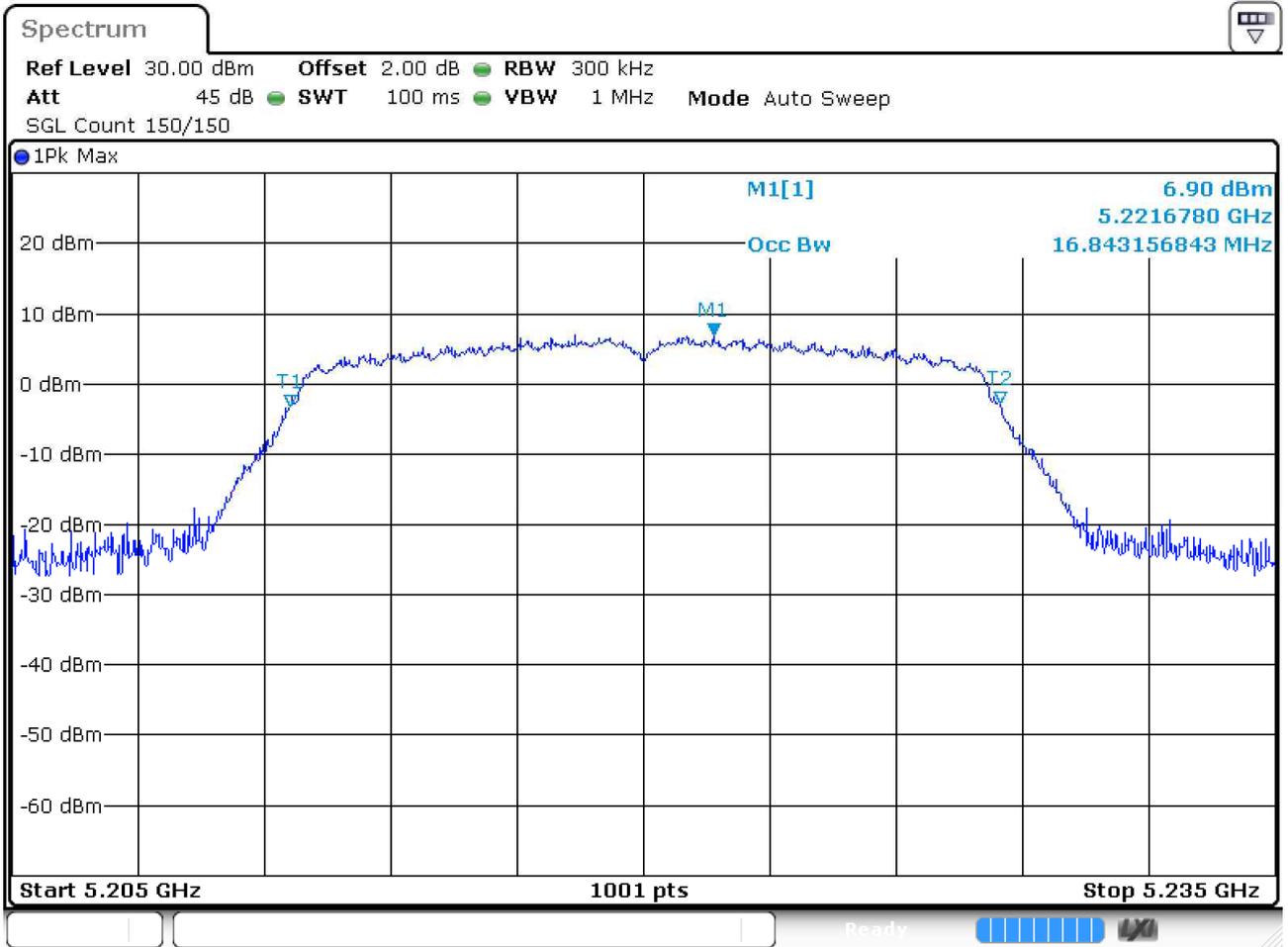


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4.7.2.2 11A20_44 ANT 1



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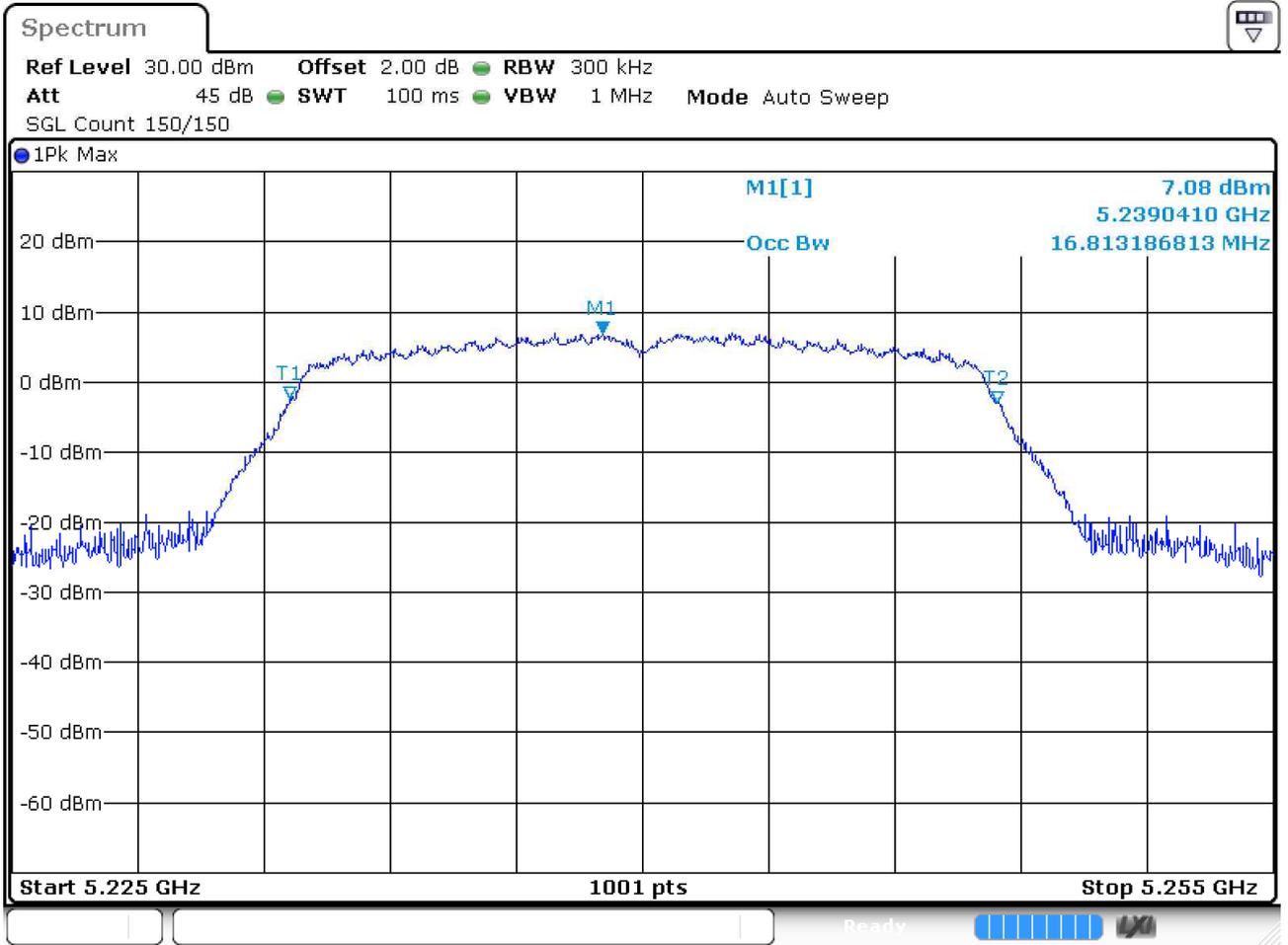


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4.7.2.3 11A20_48 ANT 1



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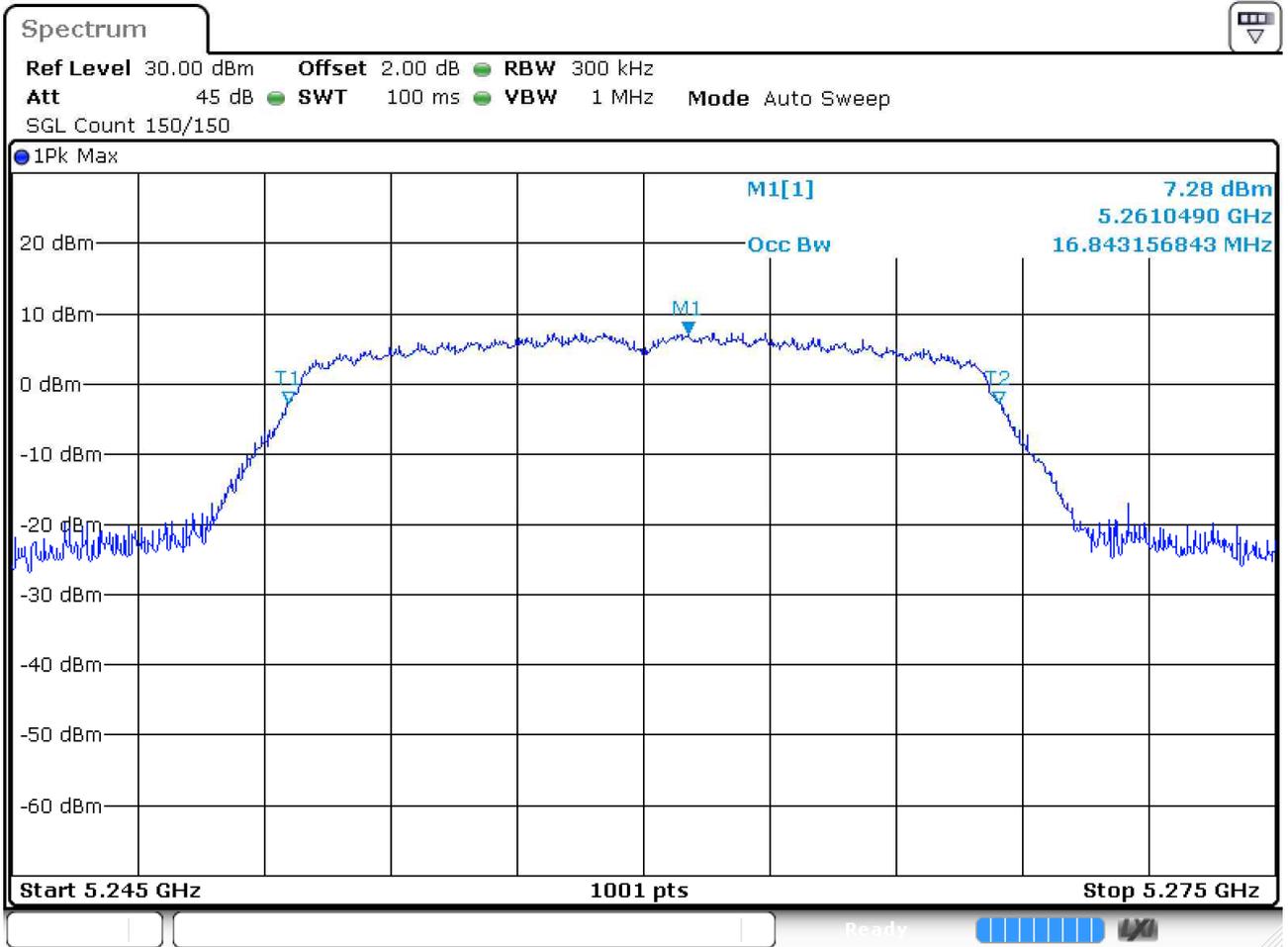


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4.7.2.4 11A20_52 ANT 1



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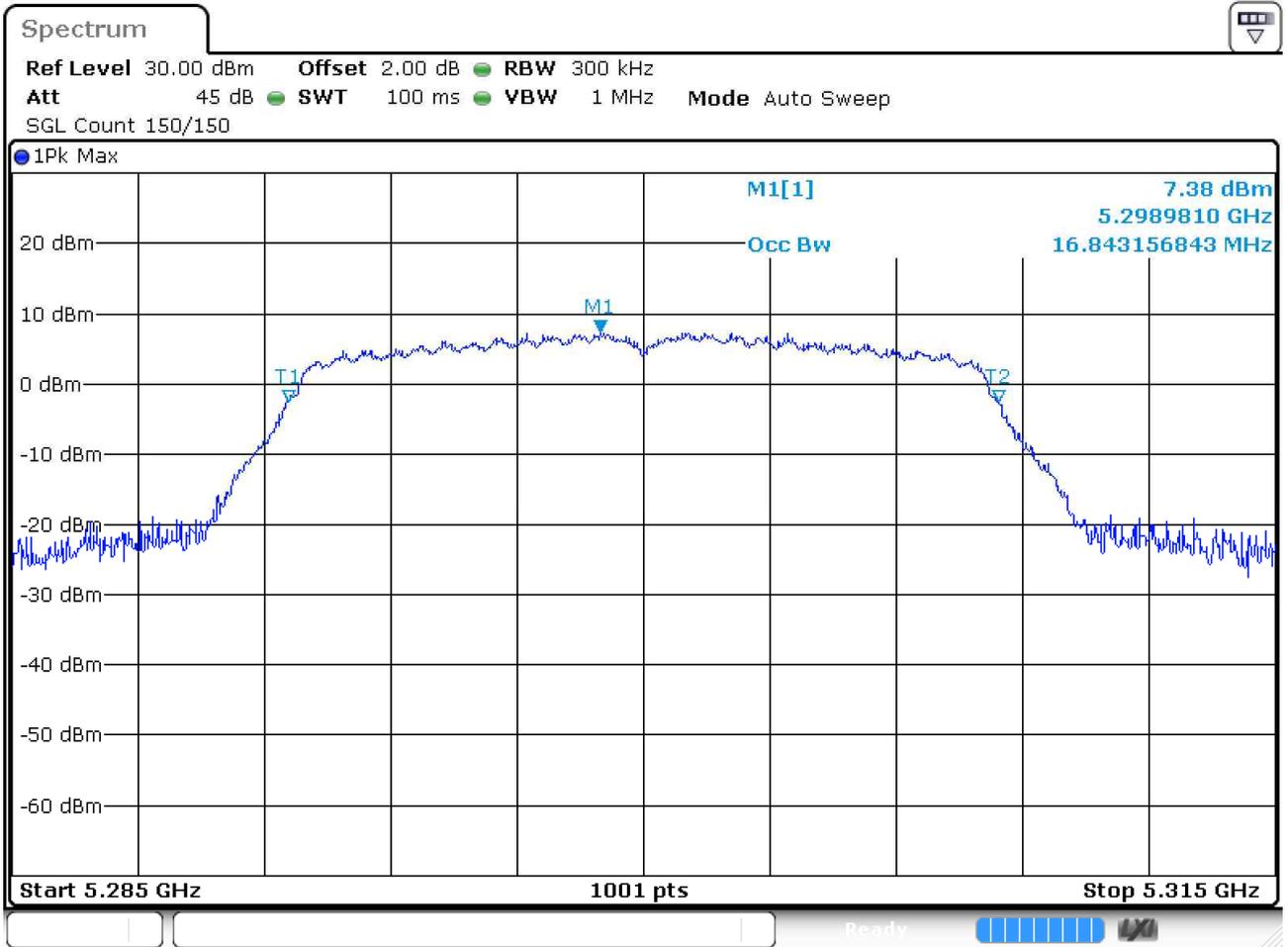


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4.7.2.5 11A20_60 ANT 1



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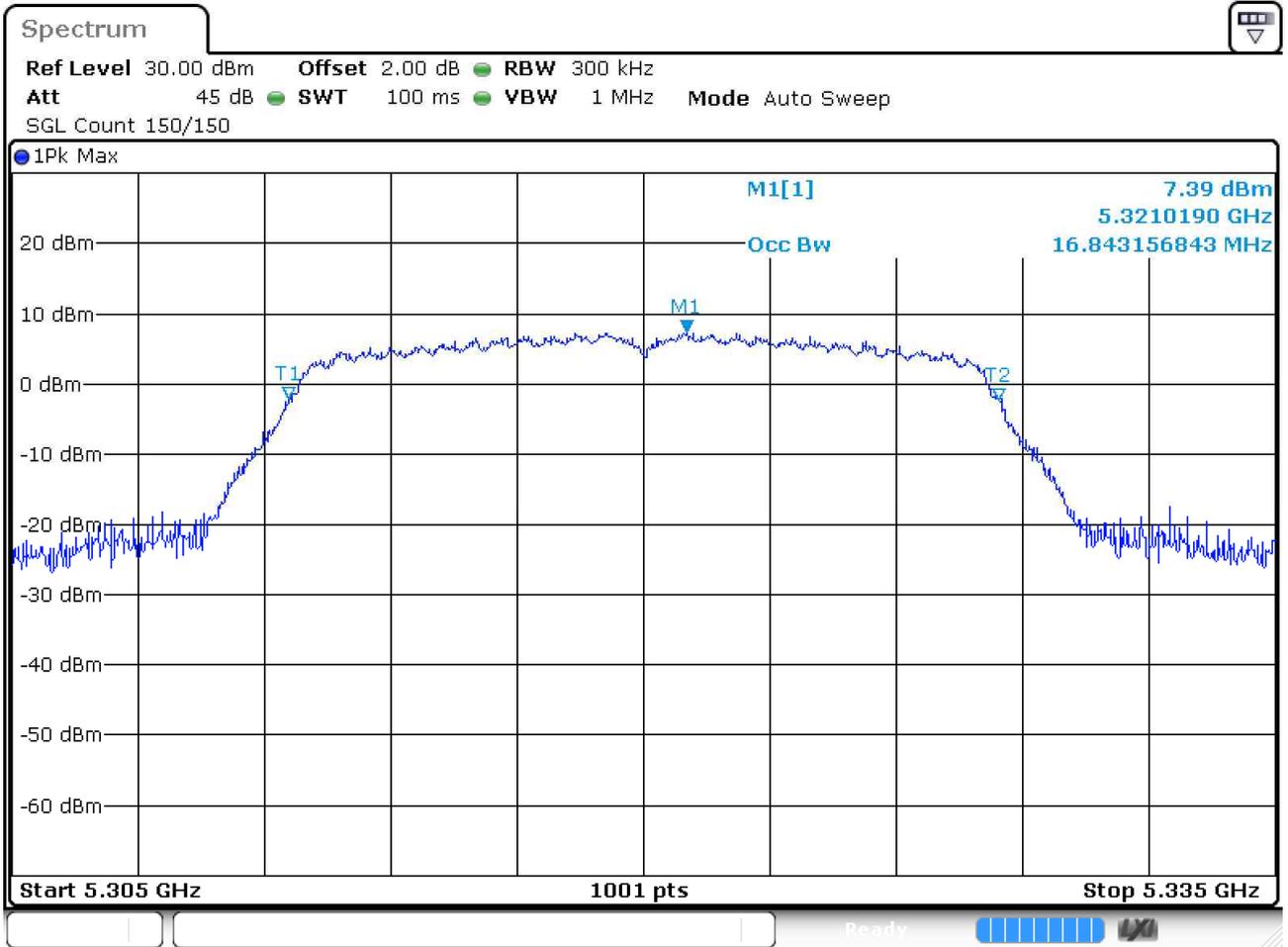
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4.7.2.6 11A20_64 ANT 1



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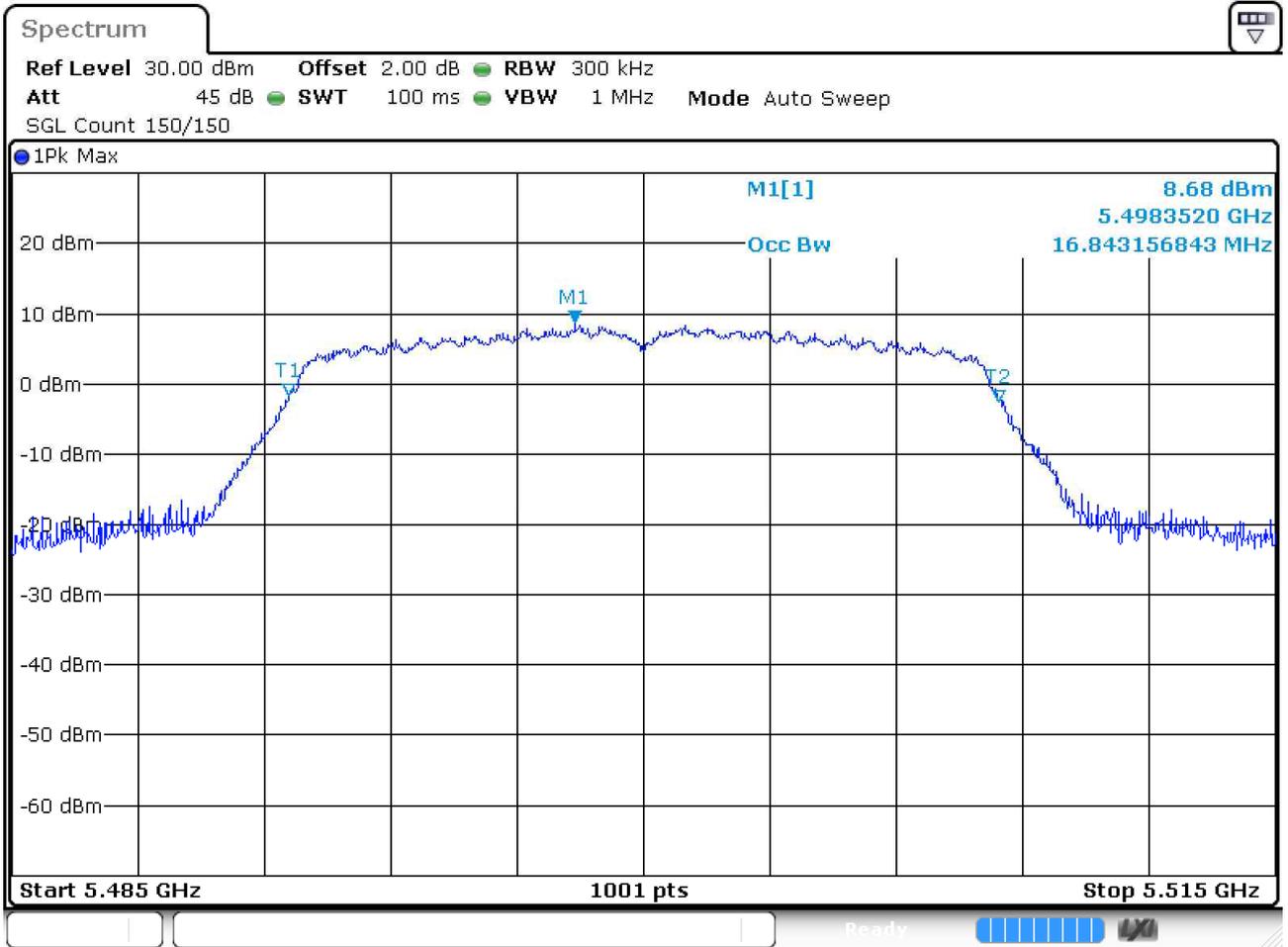


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4.7.2.7 11A20_100 ANT 1



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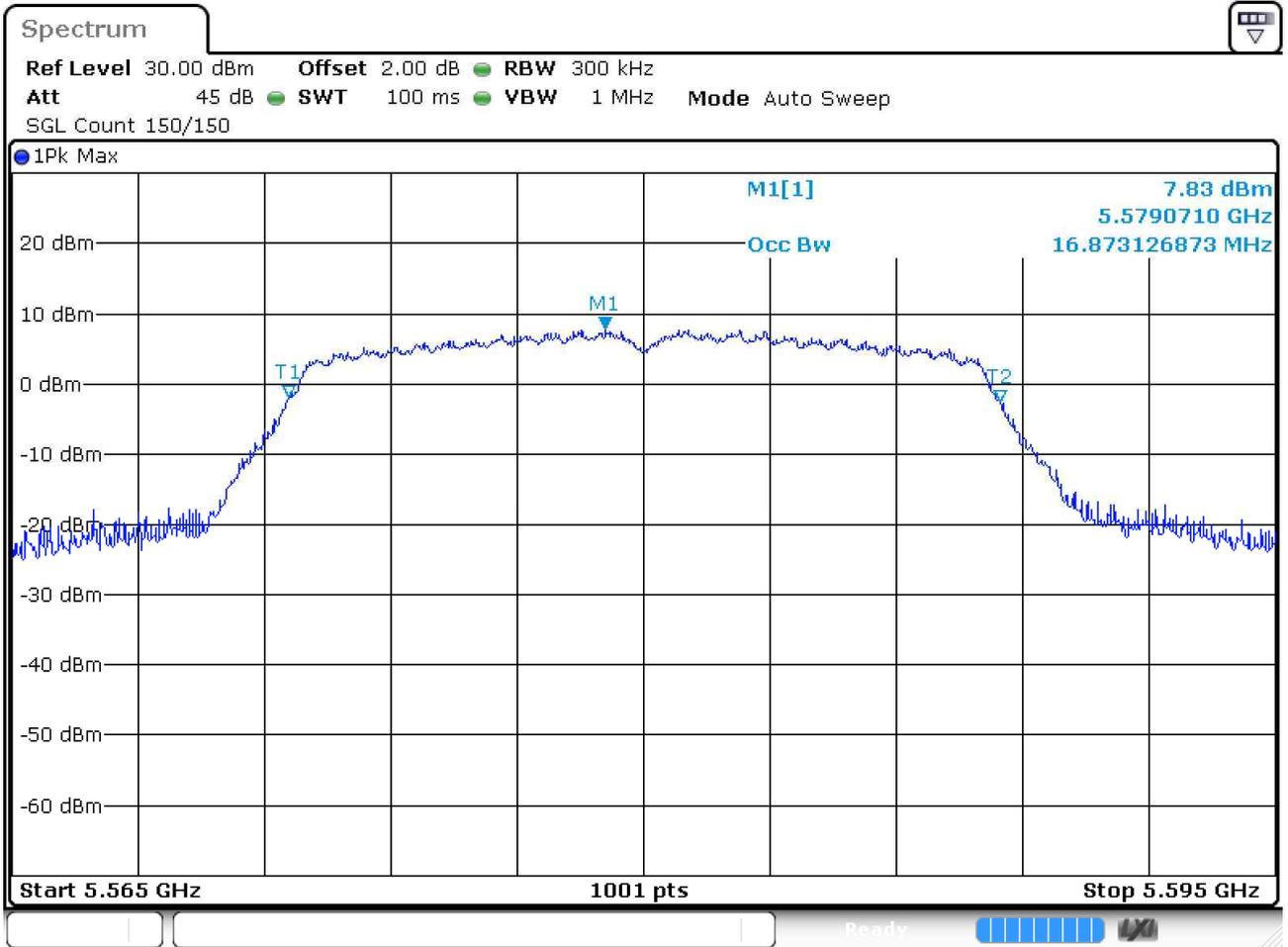
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4.7.2.8 11A20_116 ANT 1



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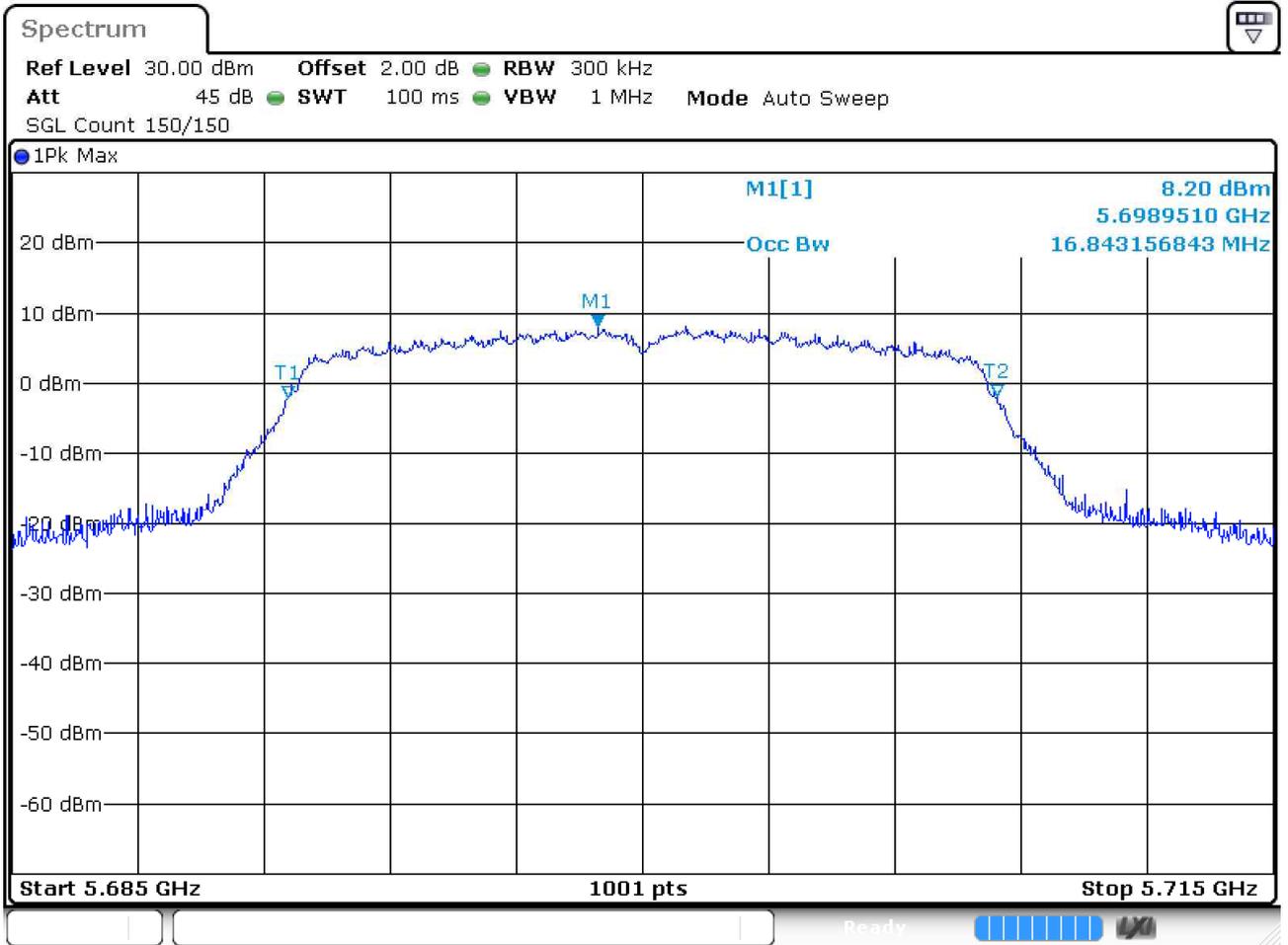


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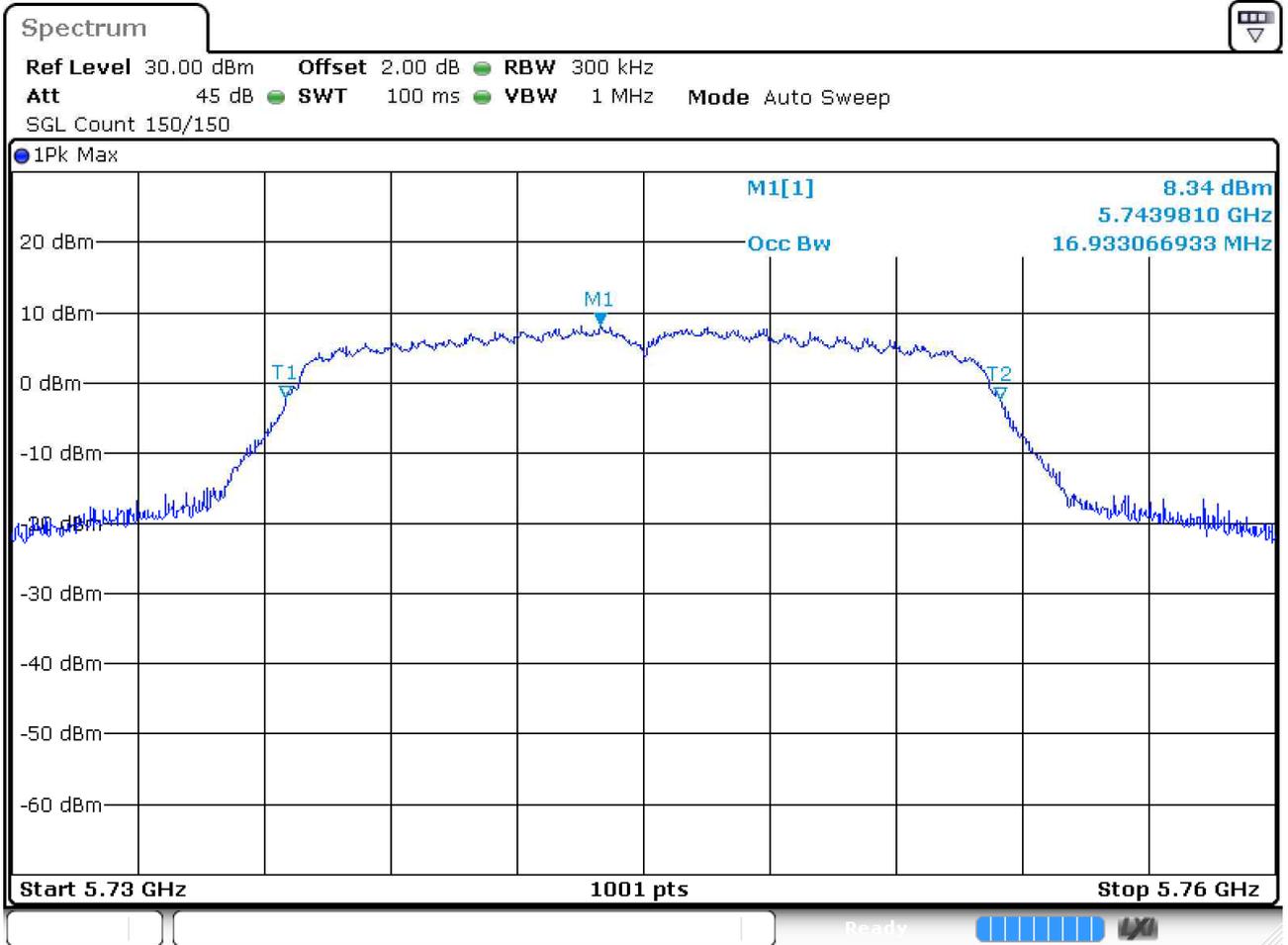


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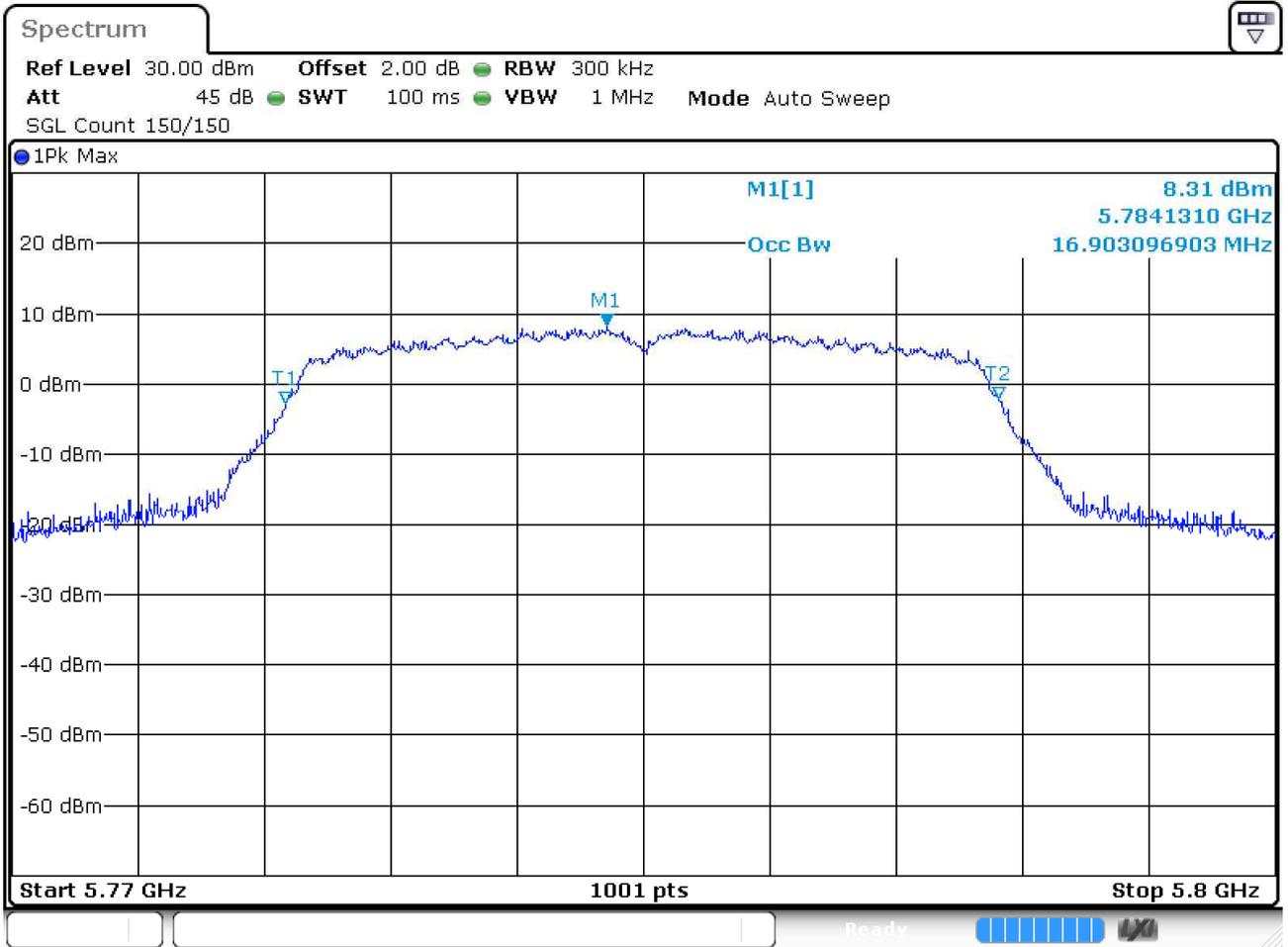


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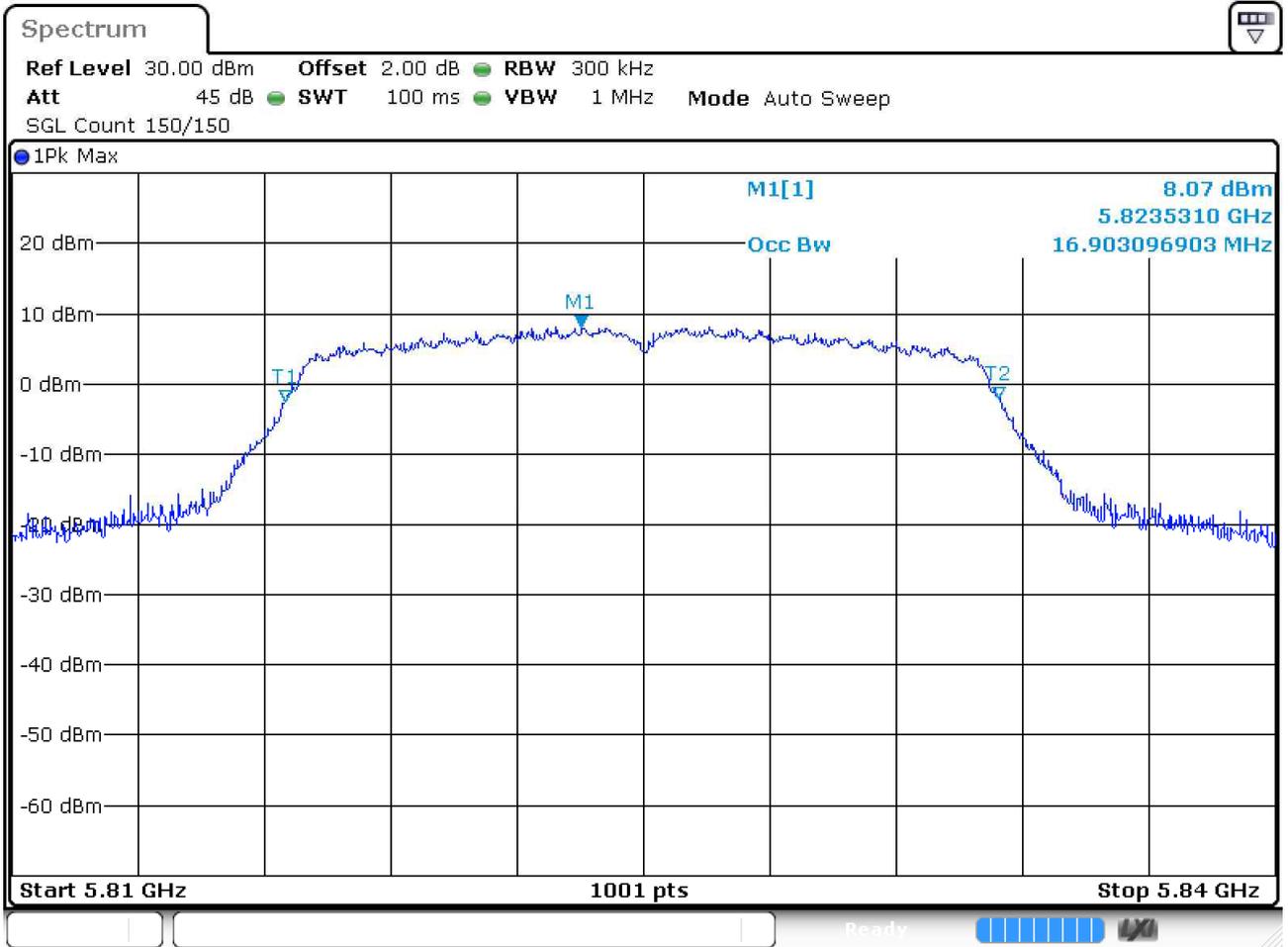


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4.7.2.12 11A20_165 ANT 1



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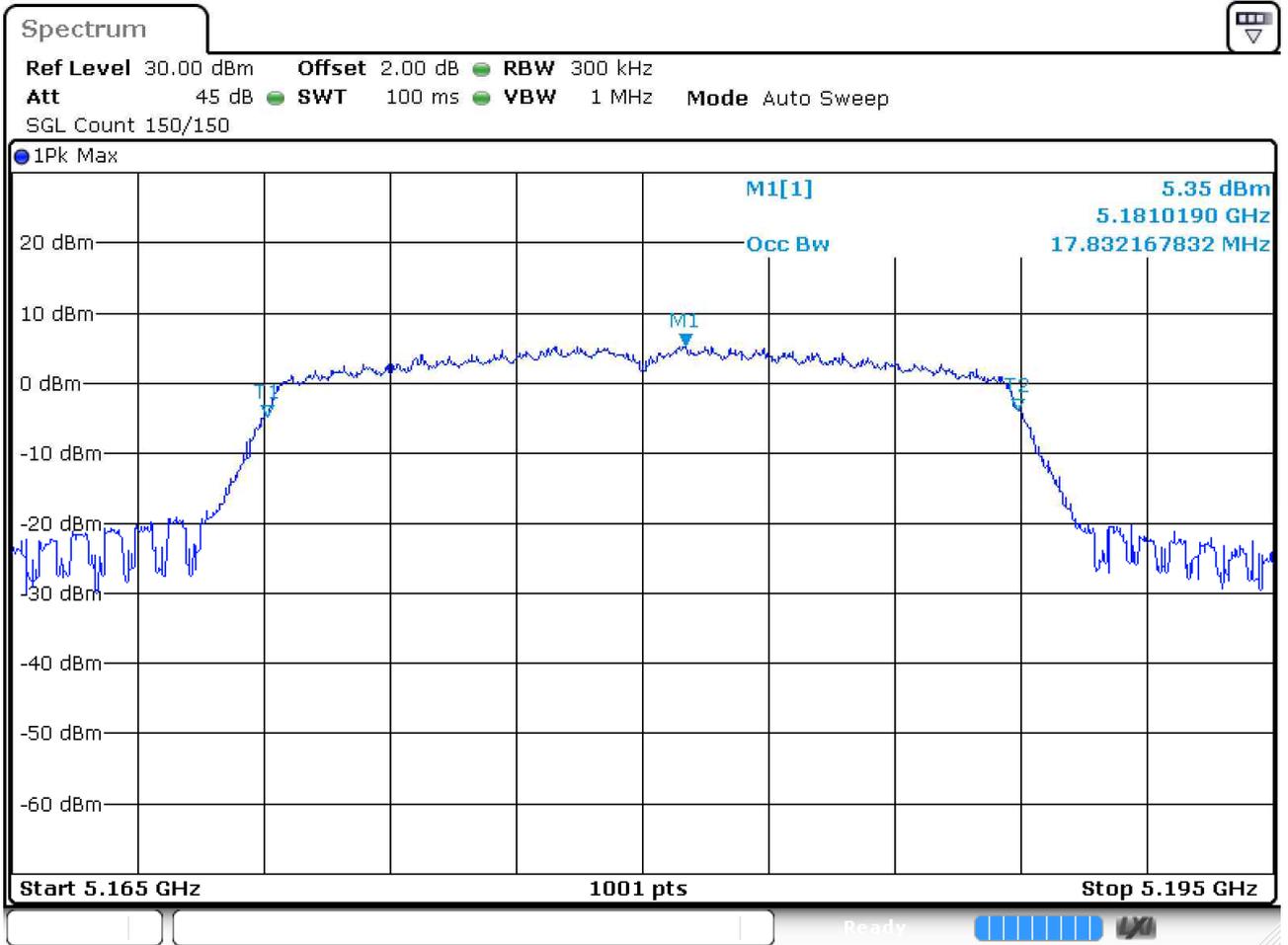


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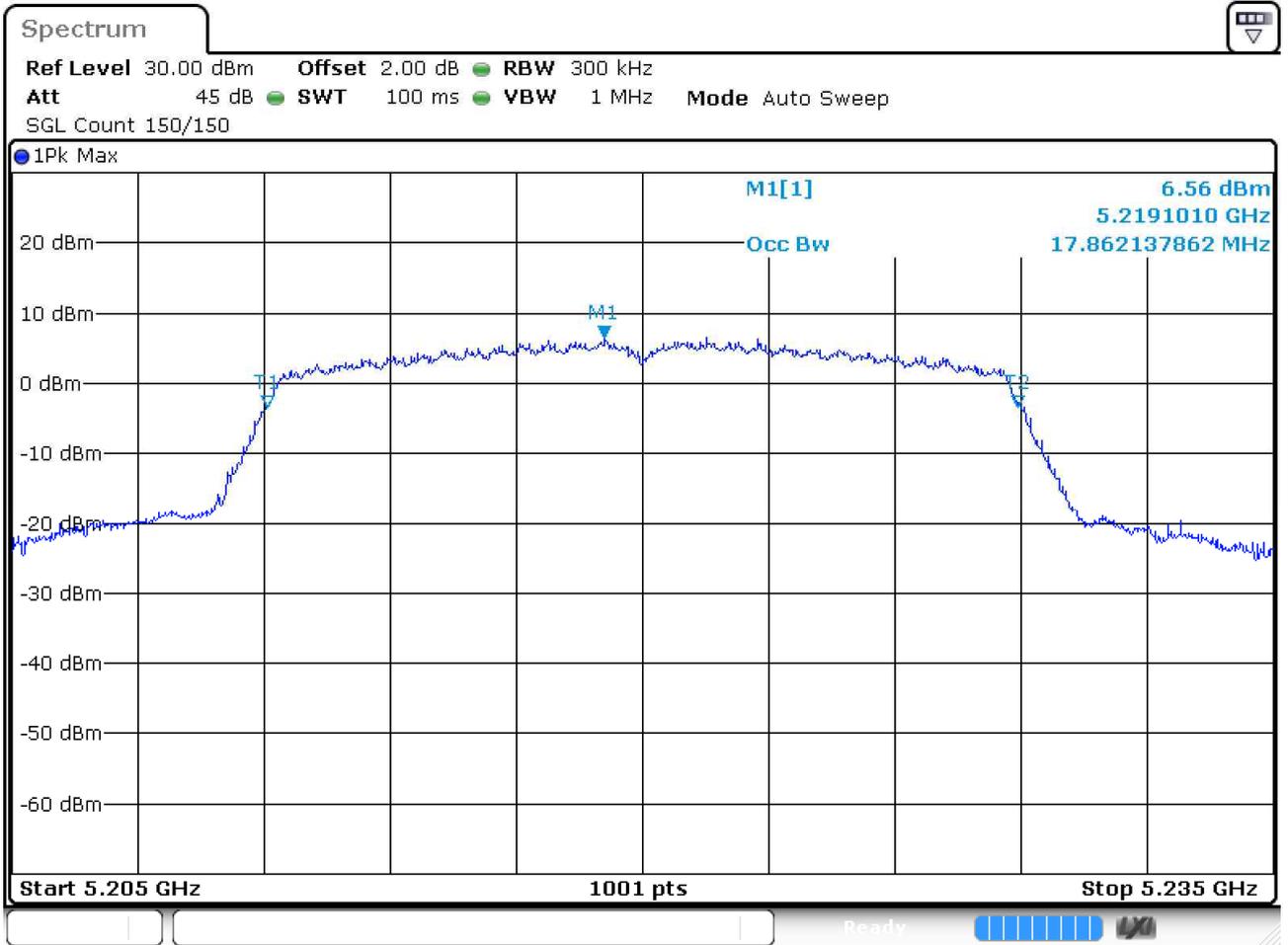
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4.7.2.14 11N20_44 ANT 1



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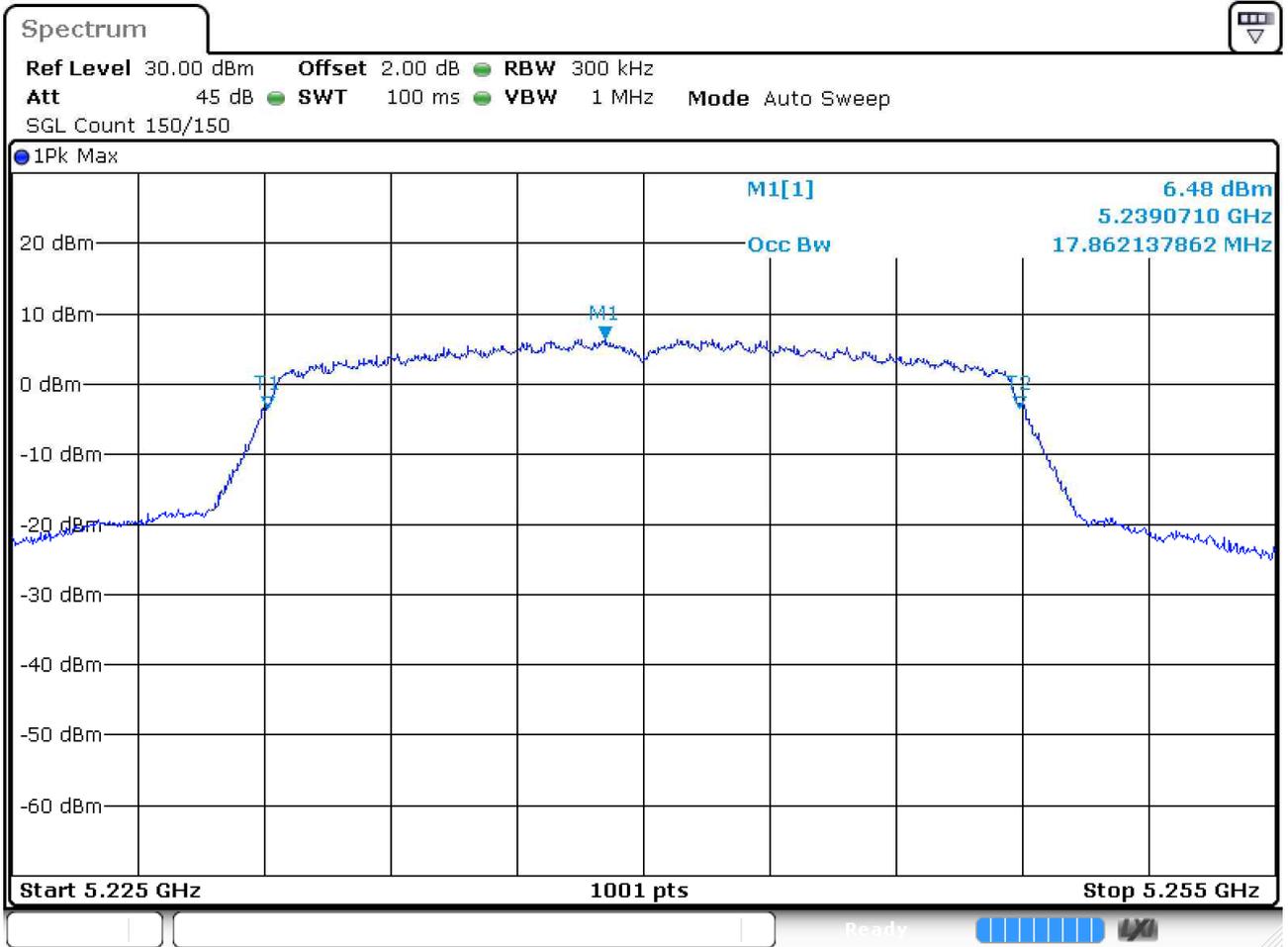


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4.7.2.15 11N20_48 ANT 1



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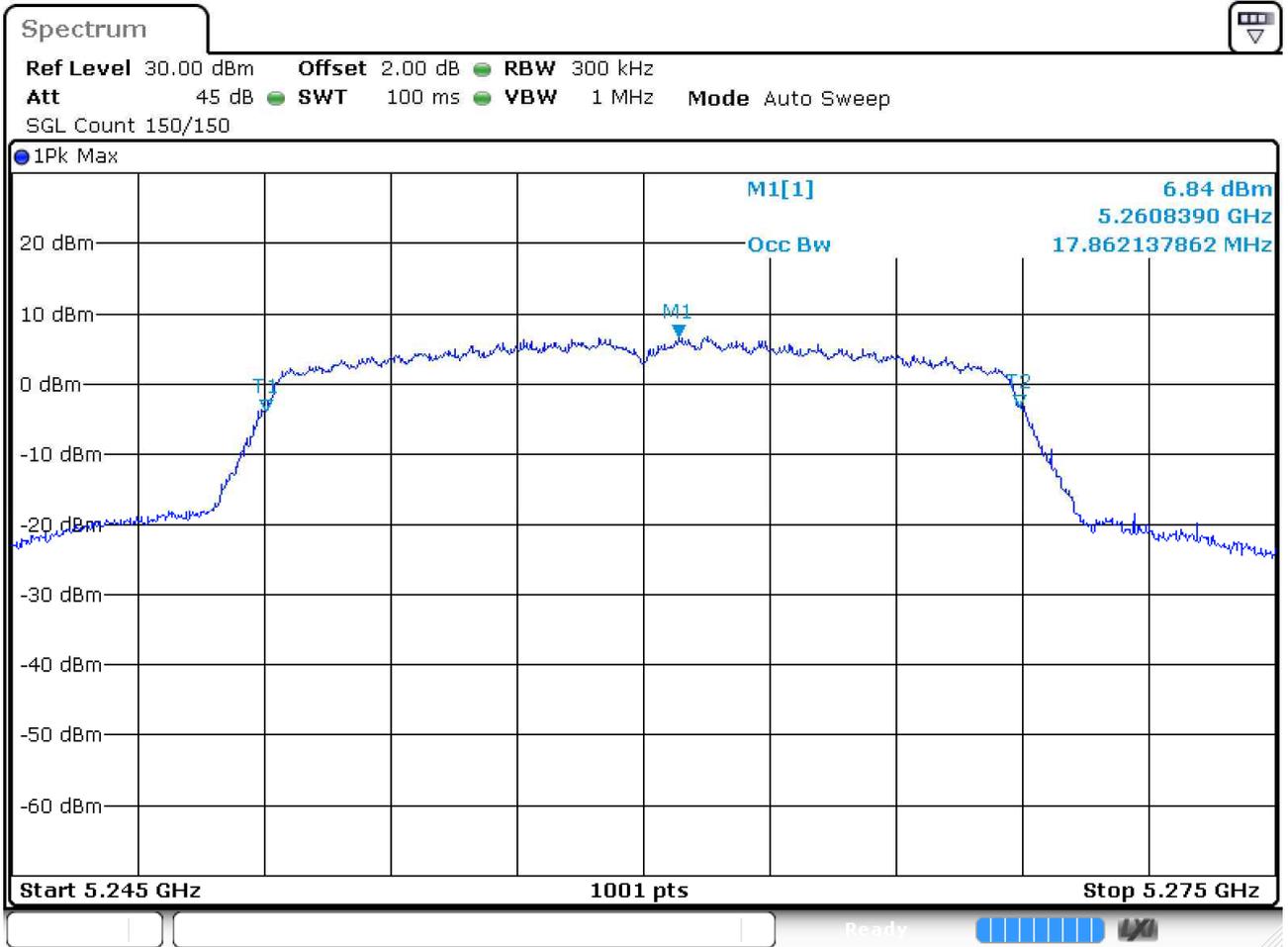
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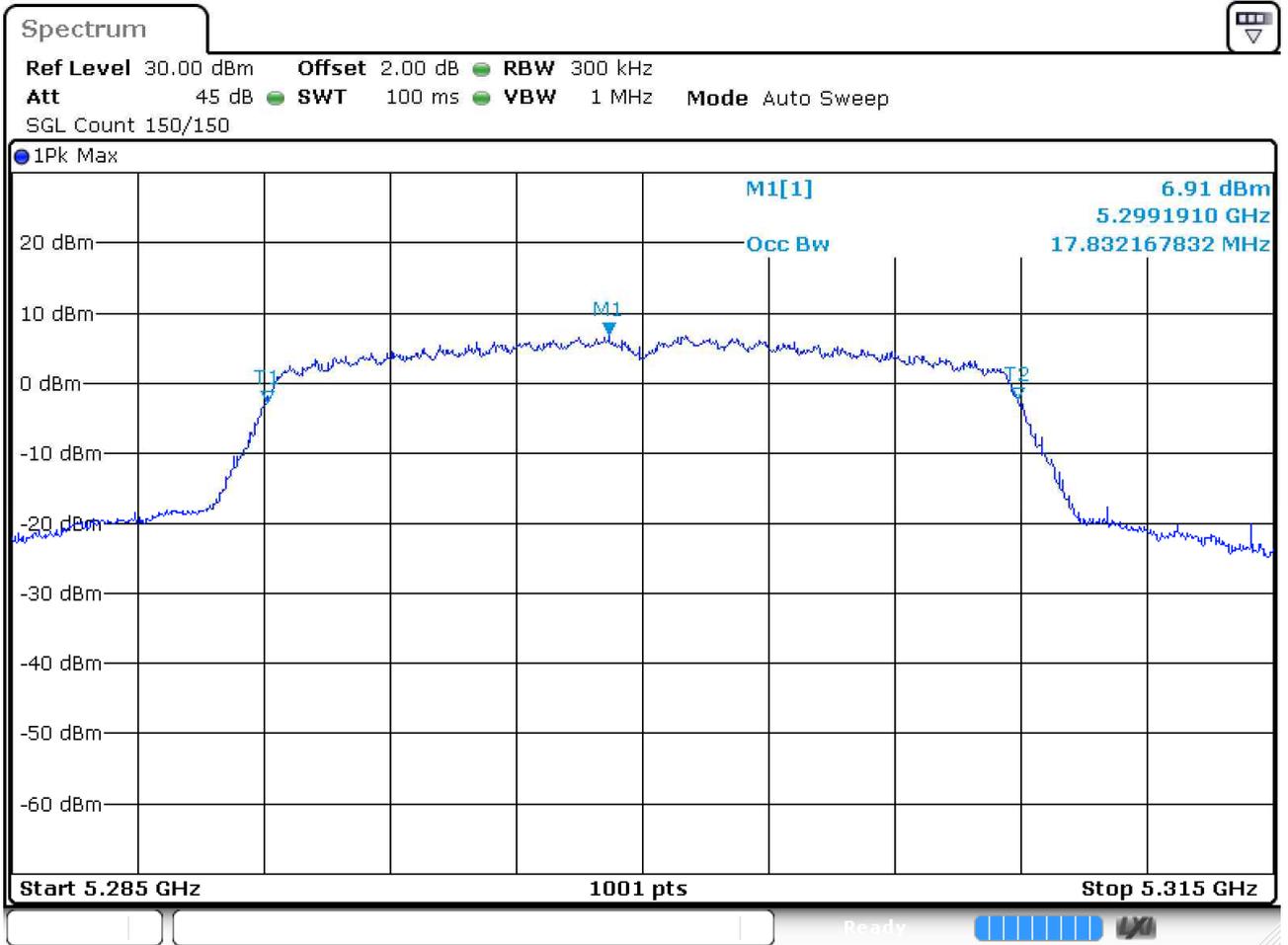


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4.7.2.17 11N20_60 ANT 1



Date: 19.AUG.2020 14:55:57

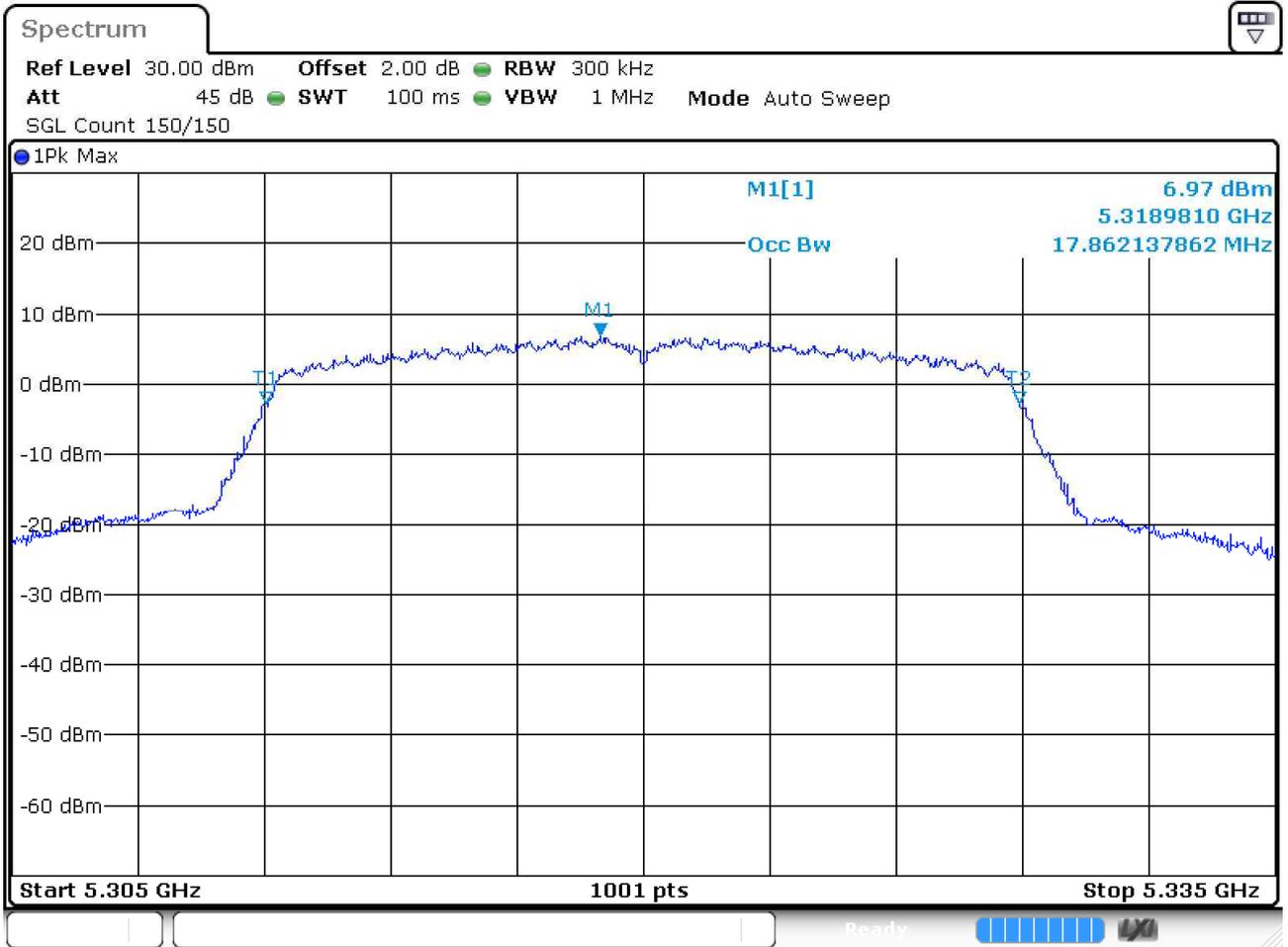


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4.7.2.18 11N20_64 ANT 1

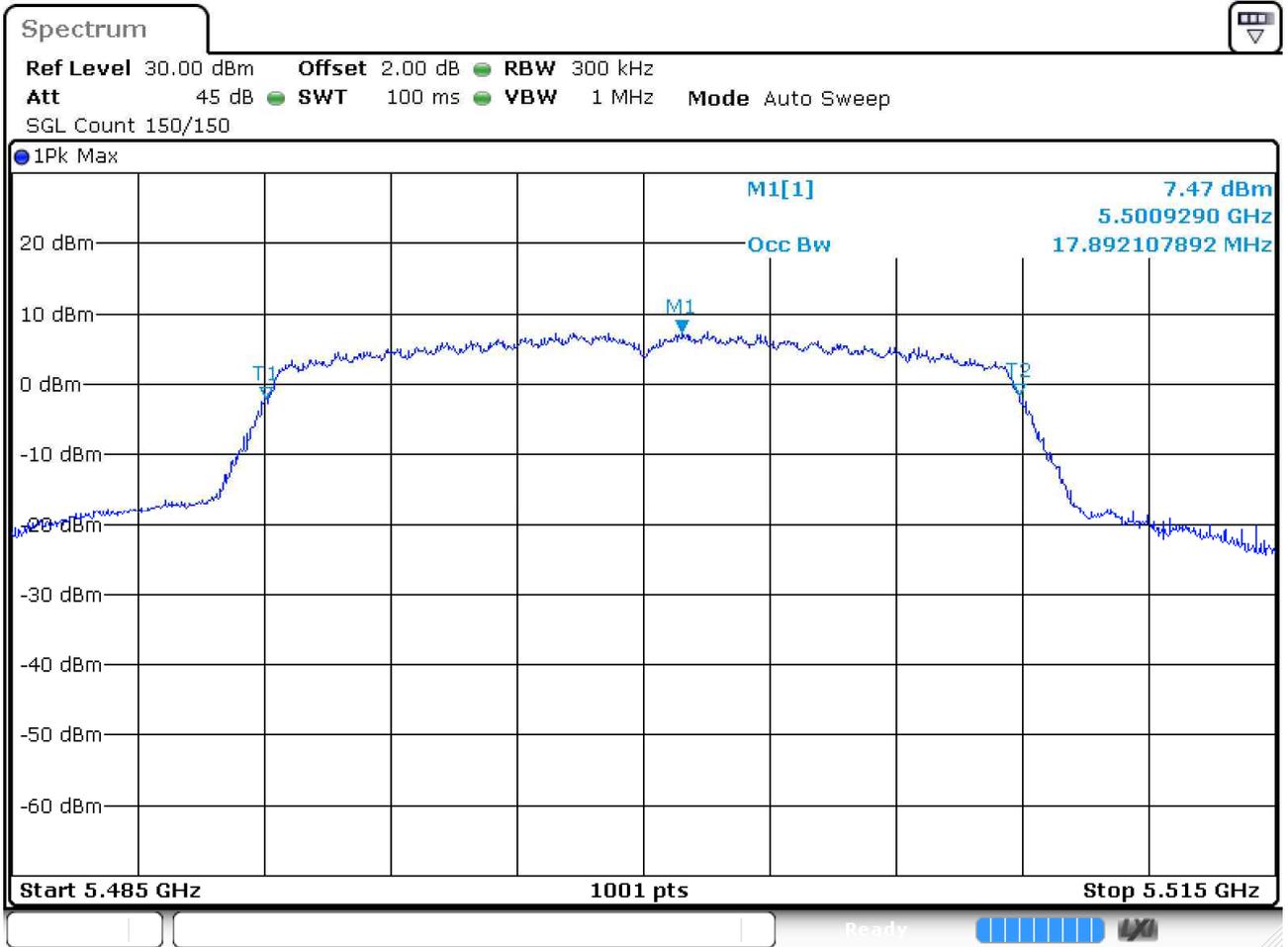


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4.7.2.19 11N20_100 ANT 1



Date: 19.AUG.2020 14:58:35



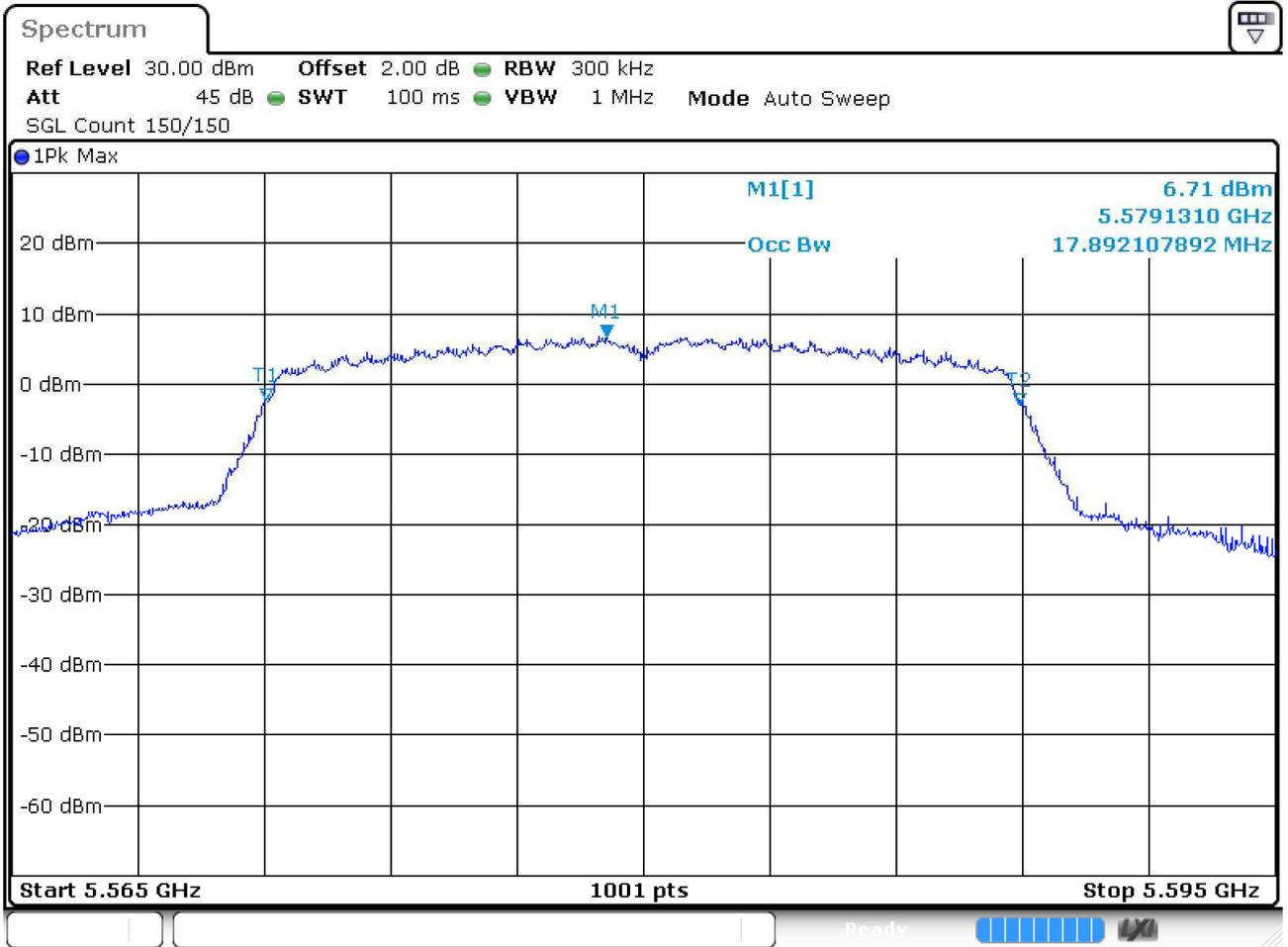
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4.7.2.20 11N20_116 ANT 1

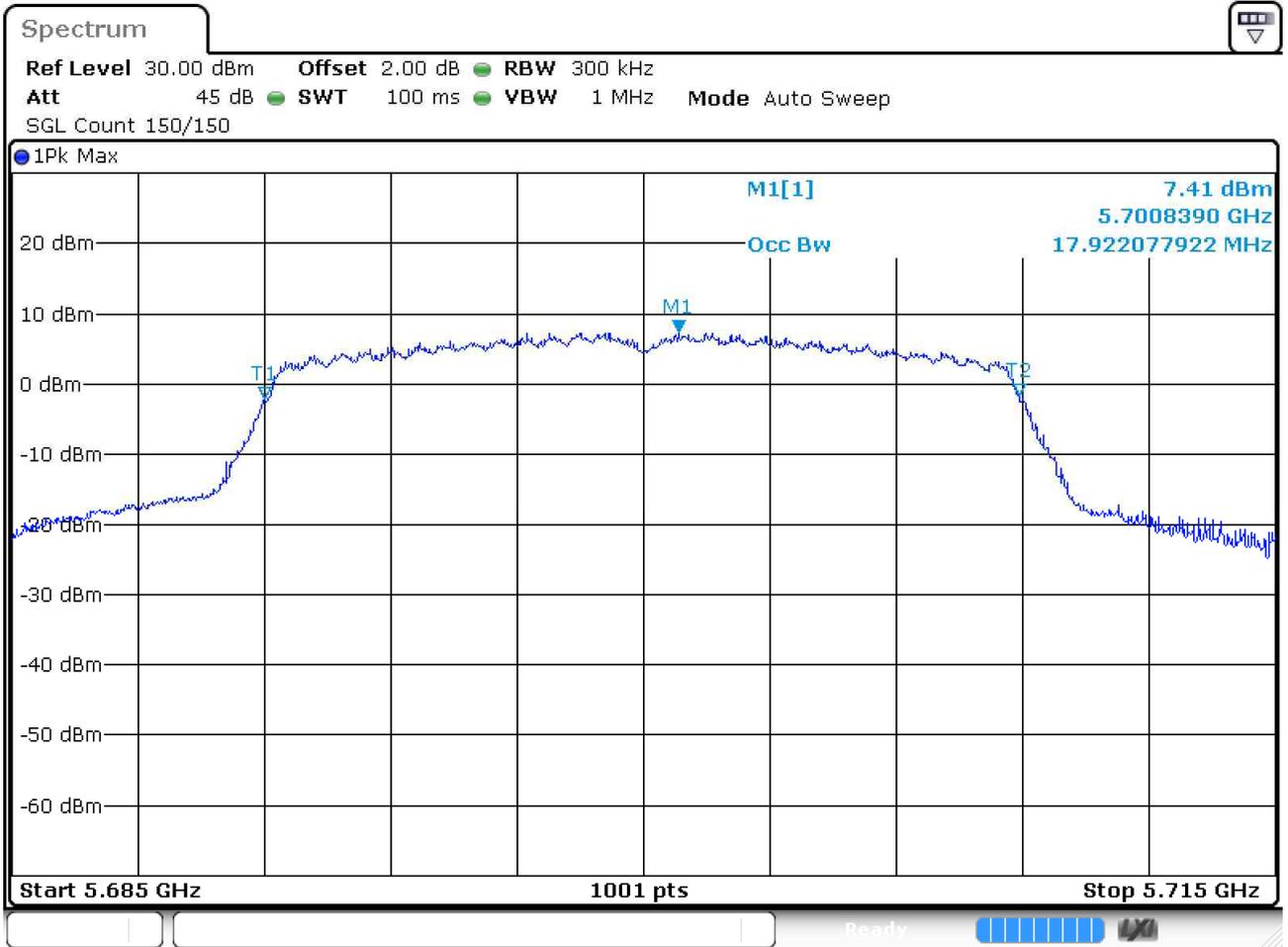


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4.7.2.21 11N20_140 ANT 1



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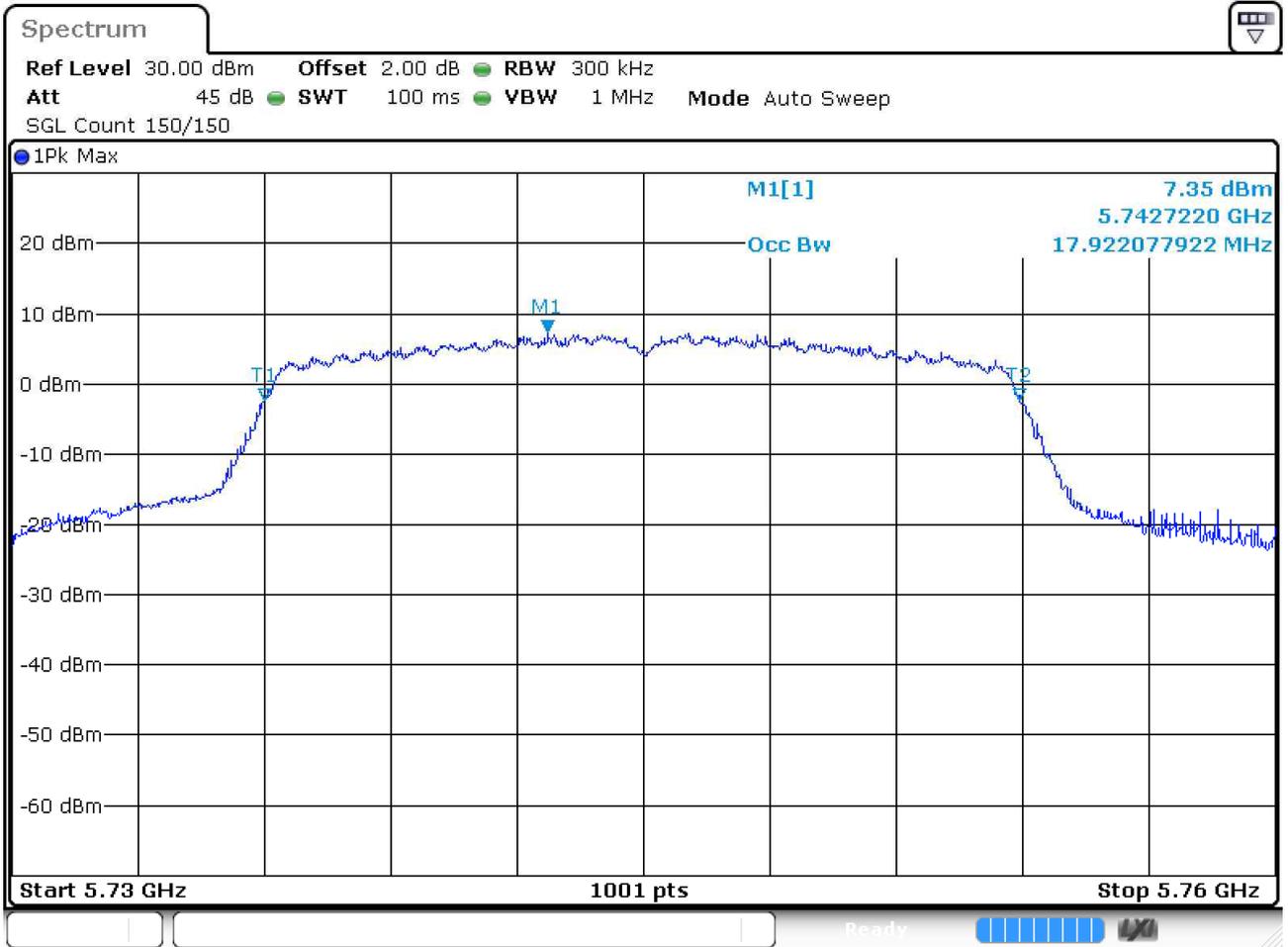


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4.7.2.22 11N20_149 ANT 1



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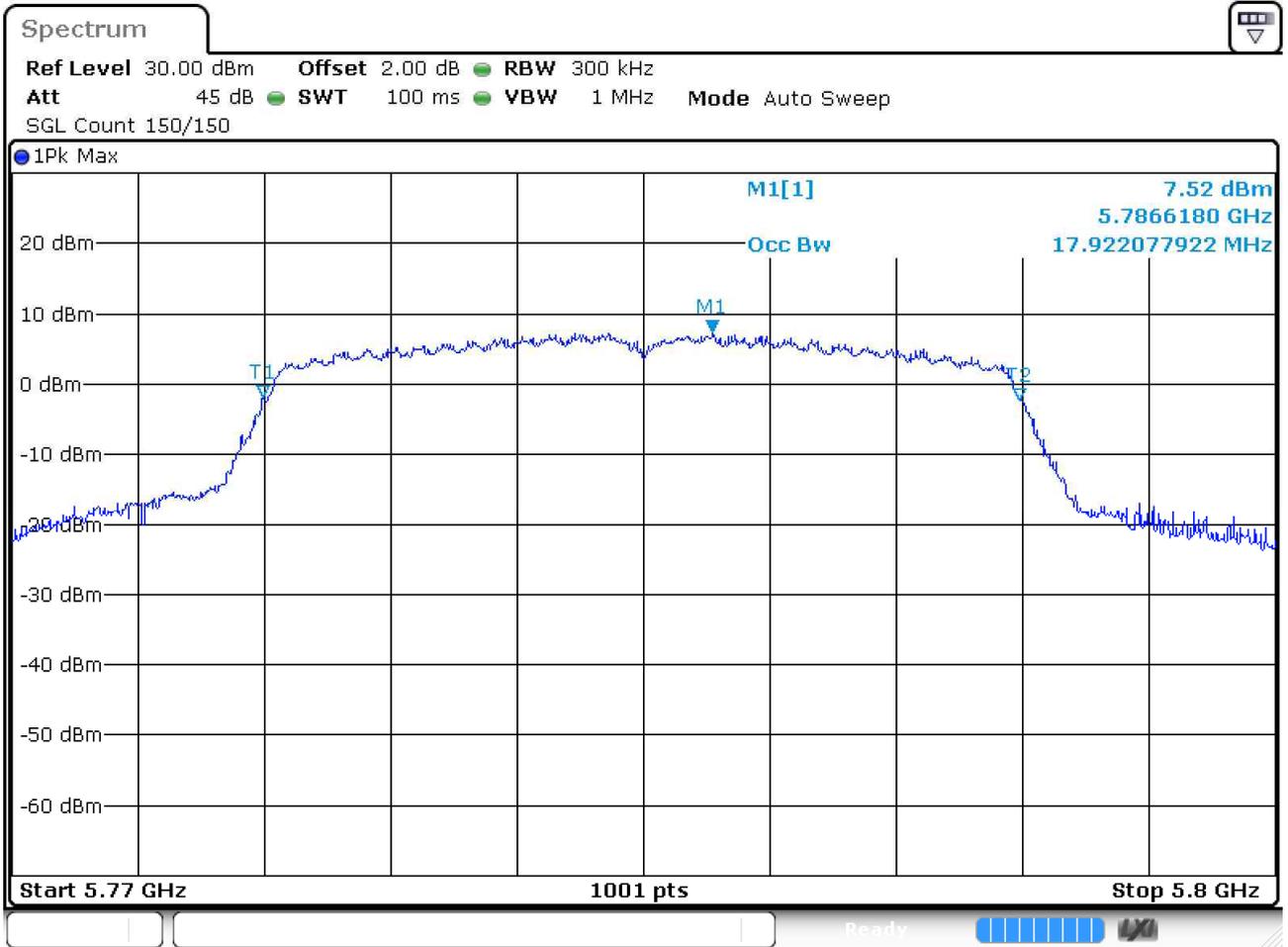
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4.7.2.23 11N20_157 ANT 1



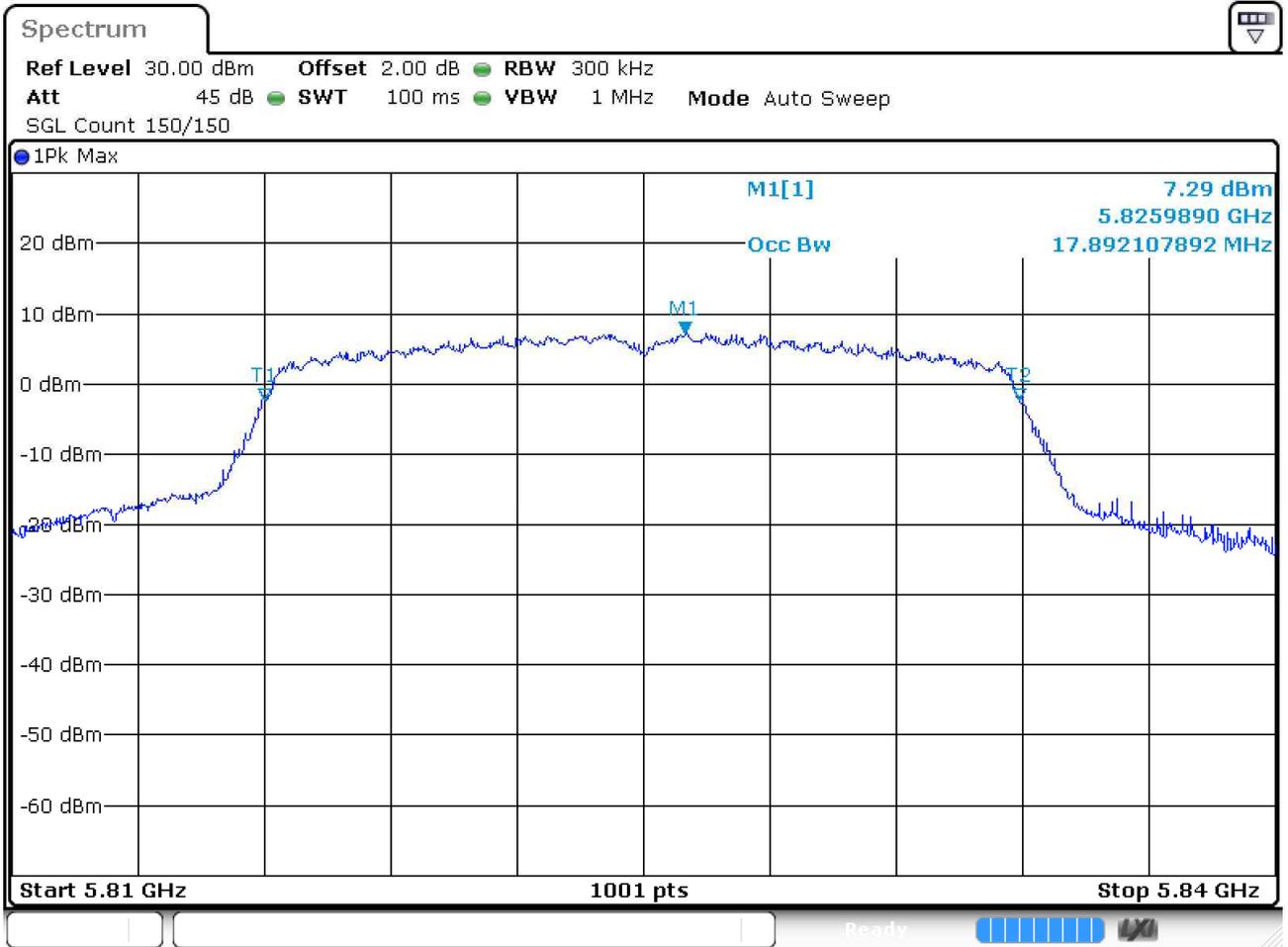
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4.7.2.24 11N20_165 ANT 1

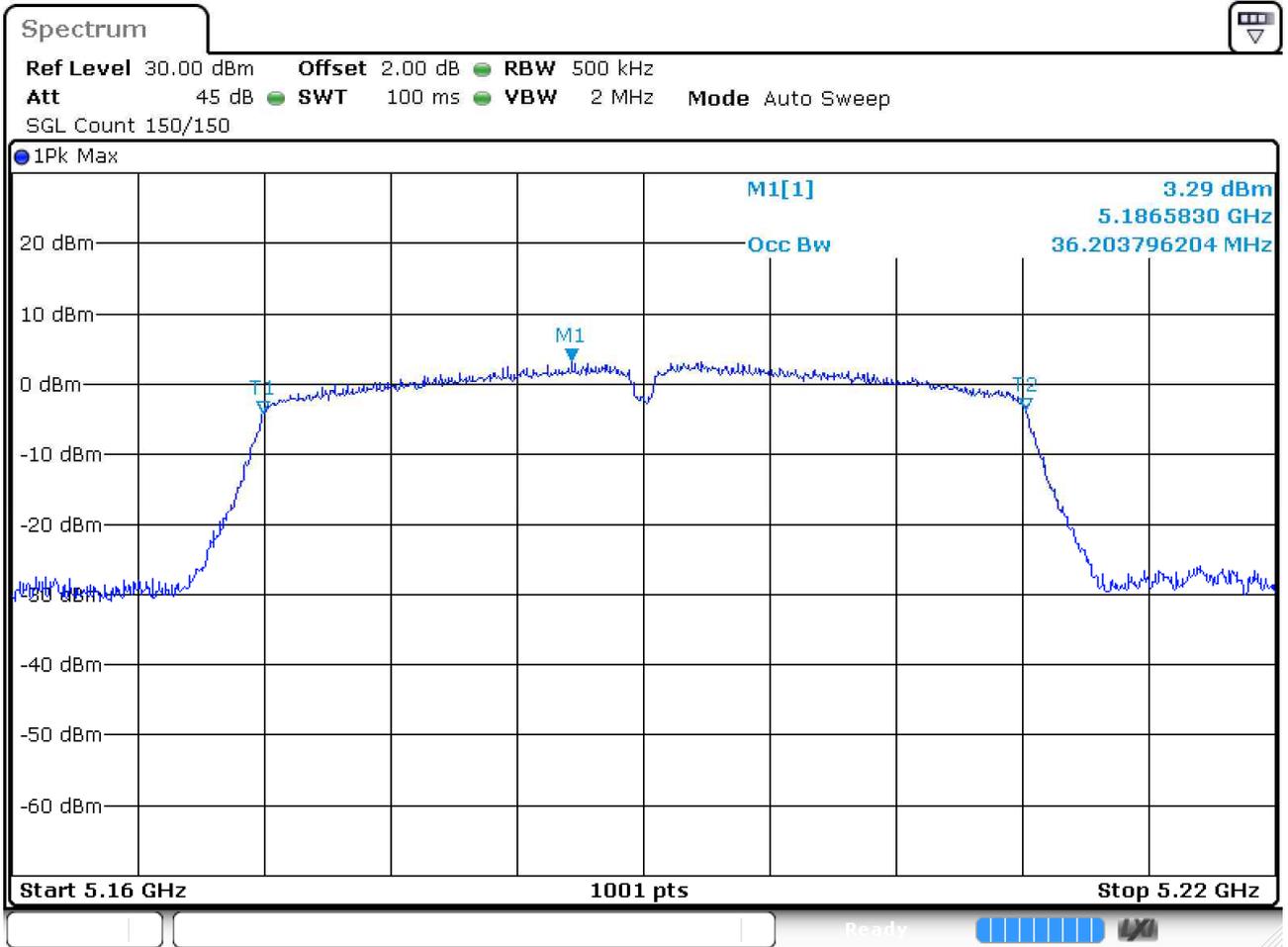


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4.7.2.25 11N40_38 ANT 1



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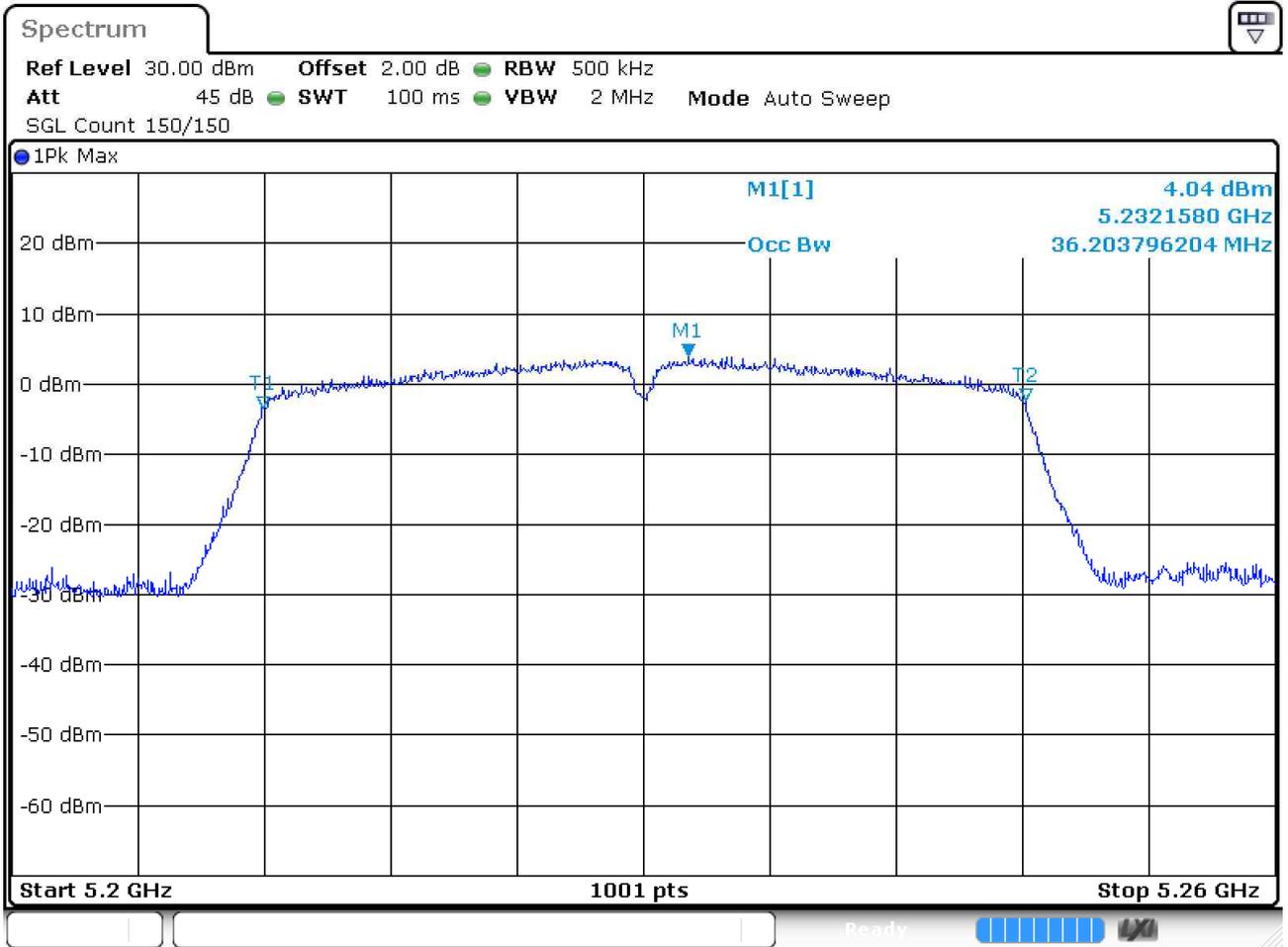


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4.7.2.26 11N40_46 ANT 1

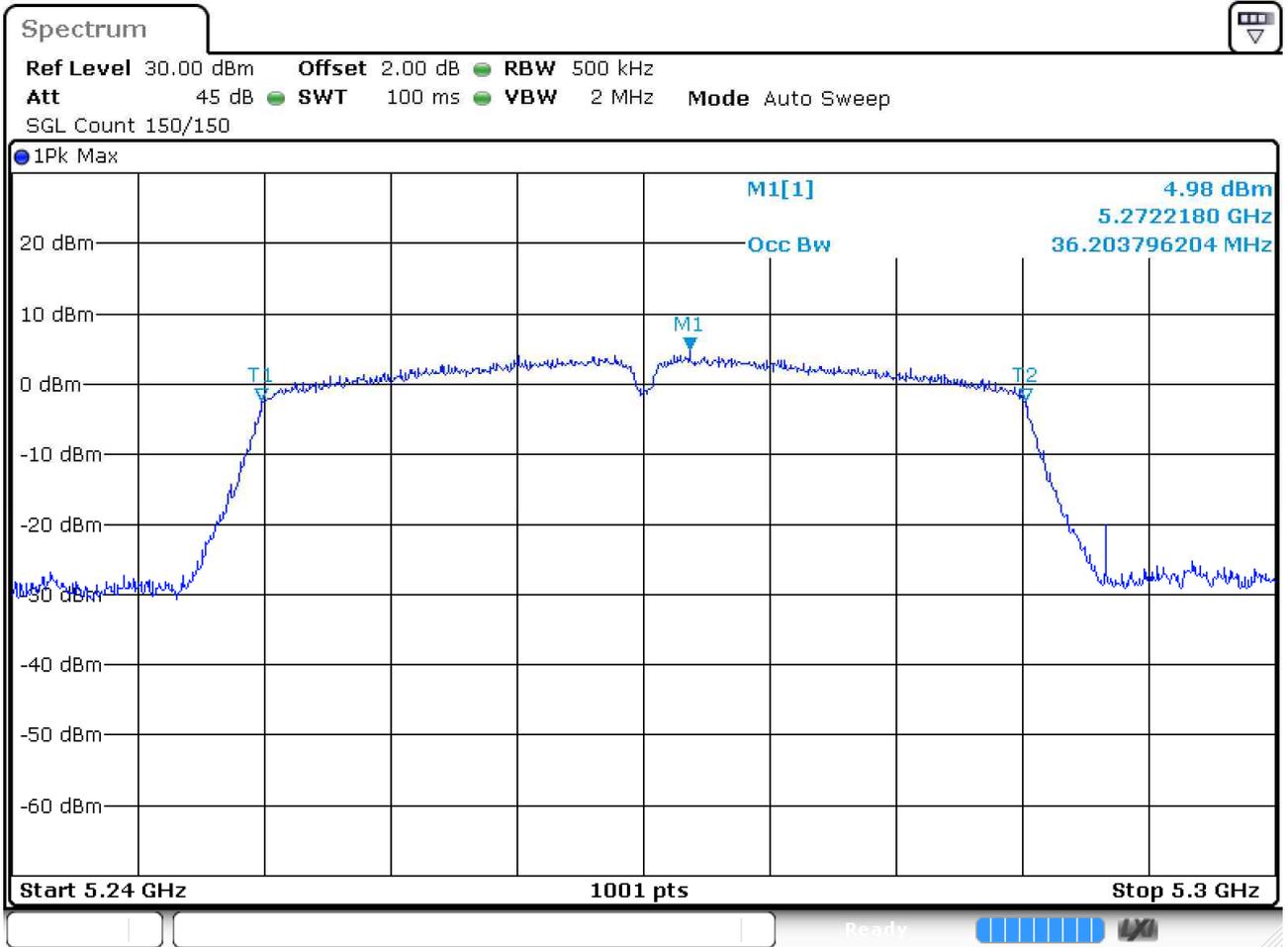


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4.7.2.27 11N40_54 ANT 1



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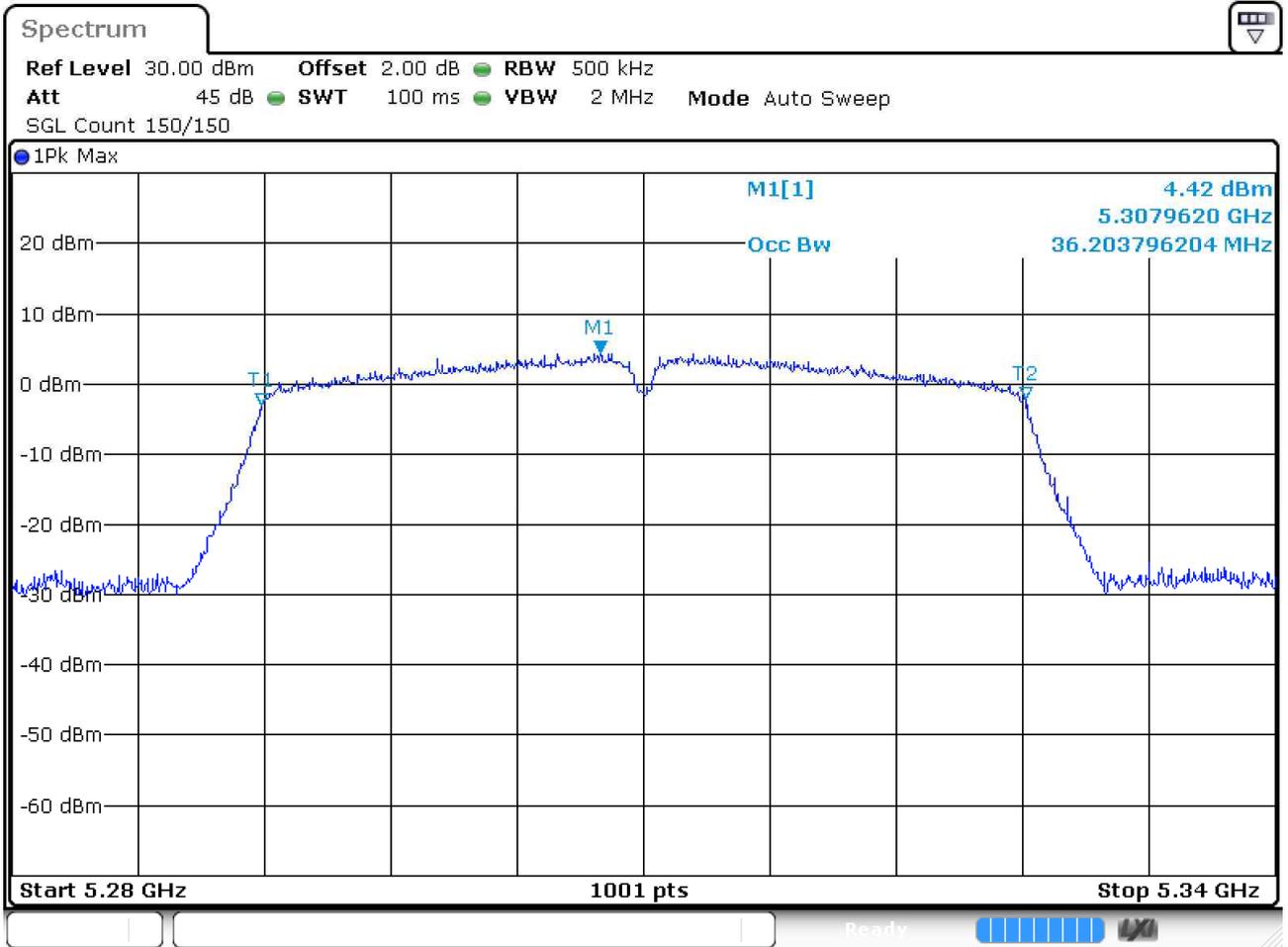


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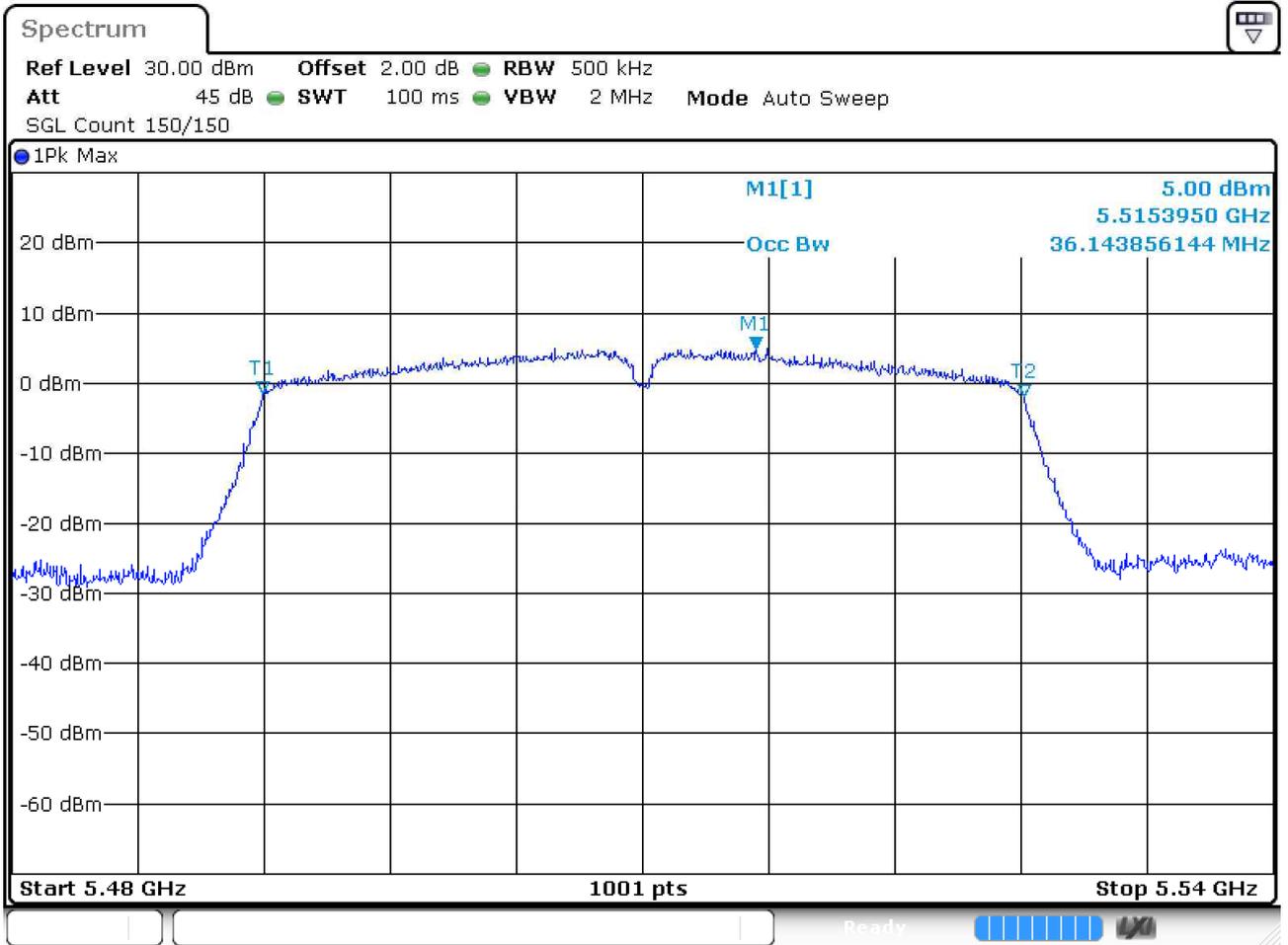


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4.7.2.29 11N40_102 ANT 1



Date: 19.AUG.2020 15:15:17



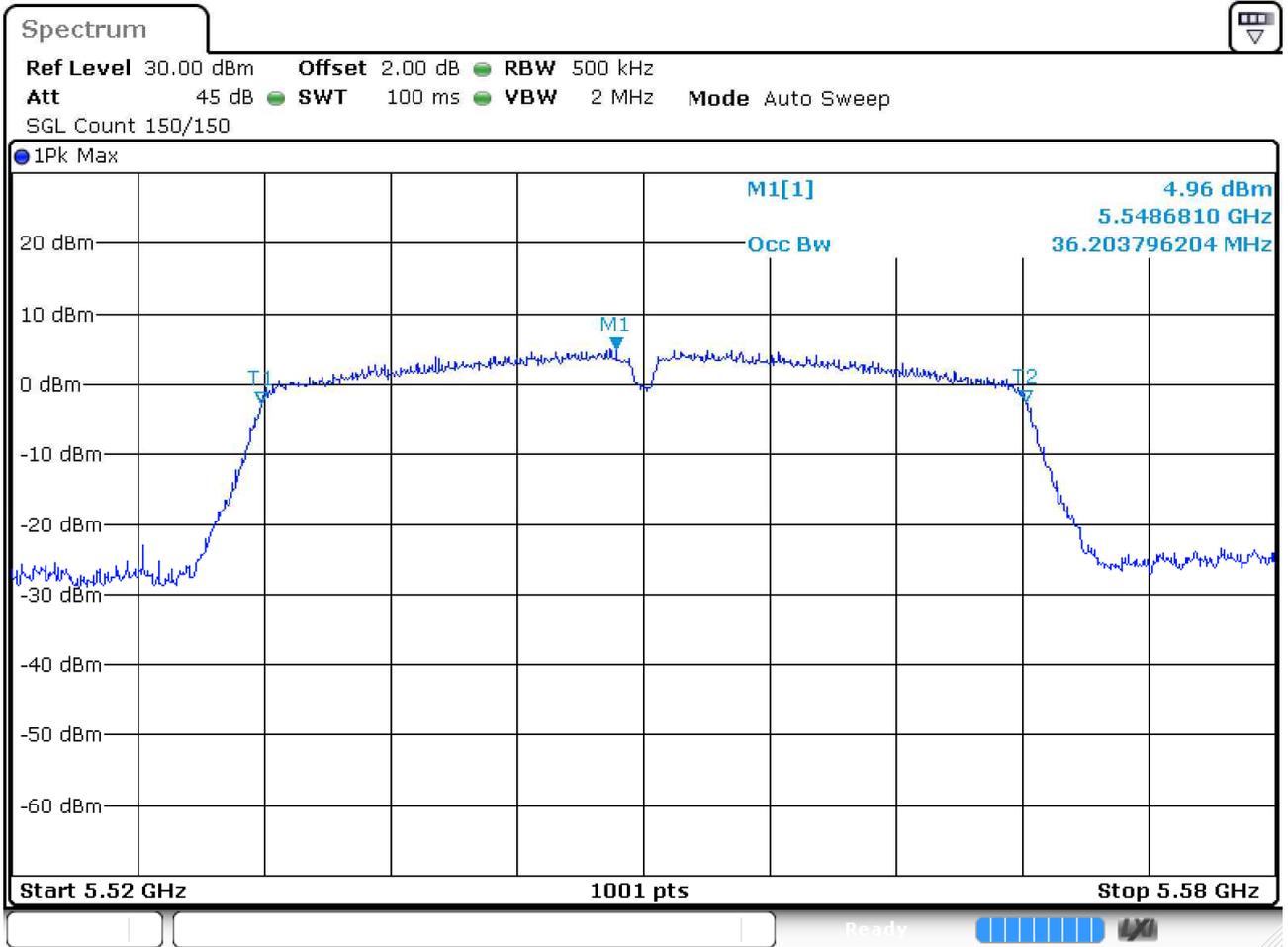
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4.7.2.30 11N40_110 ANT 1



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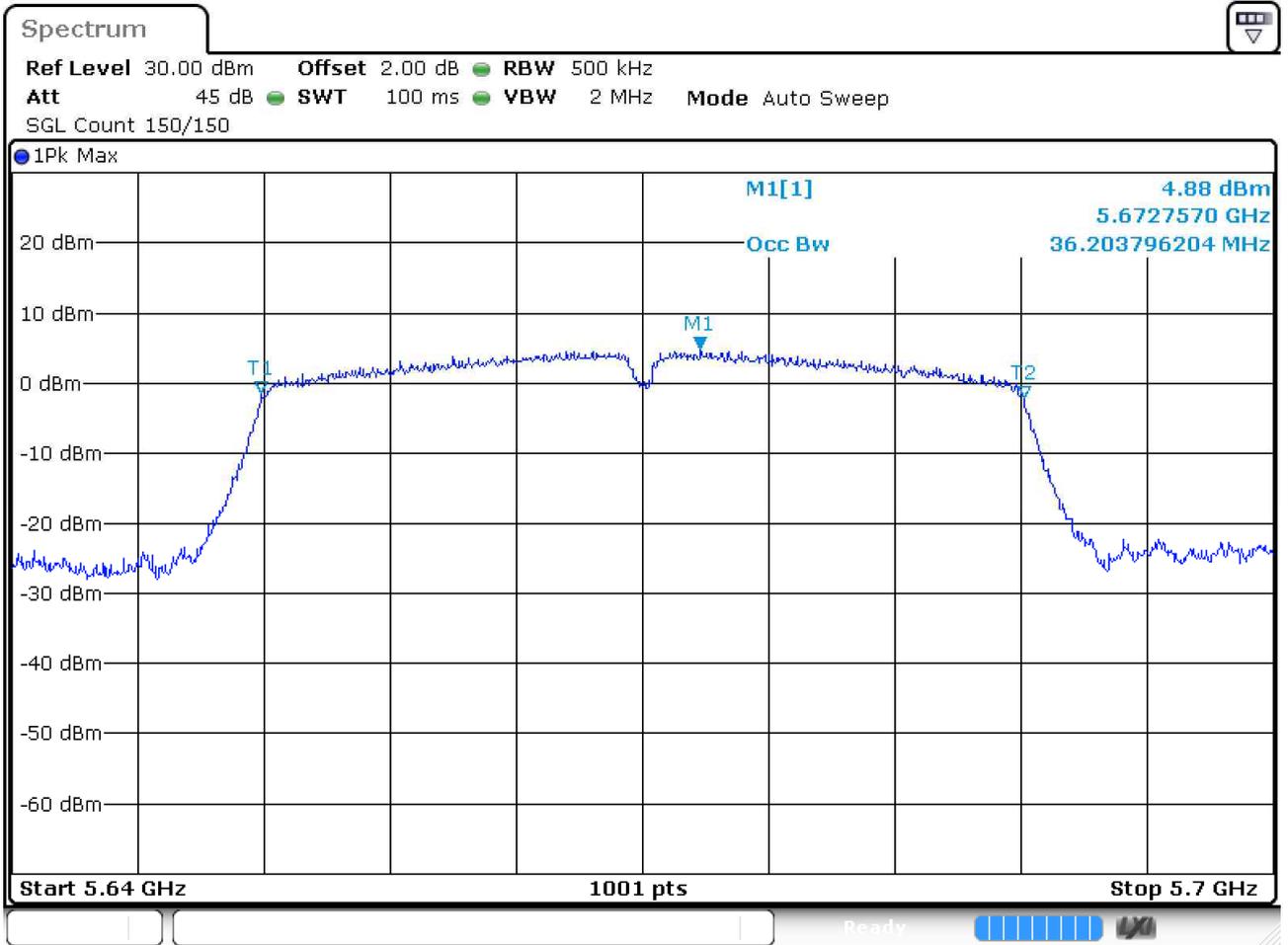


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4.7.2.31 11N40_134 ANT 1



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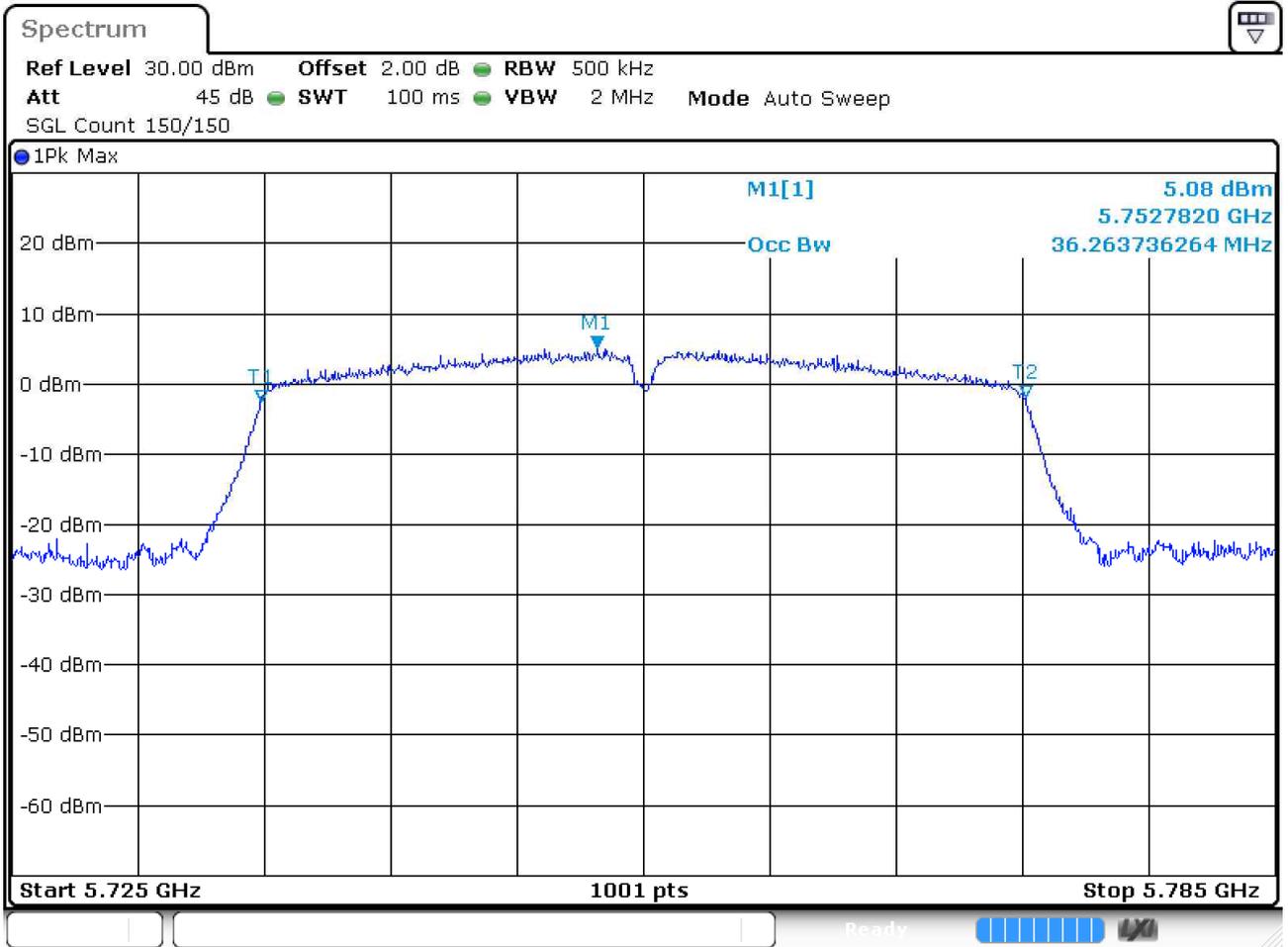


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4.7.2.32 11N40_151 ANT 1



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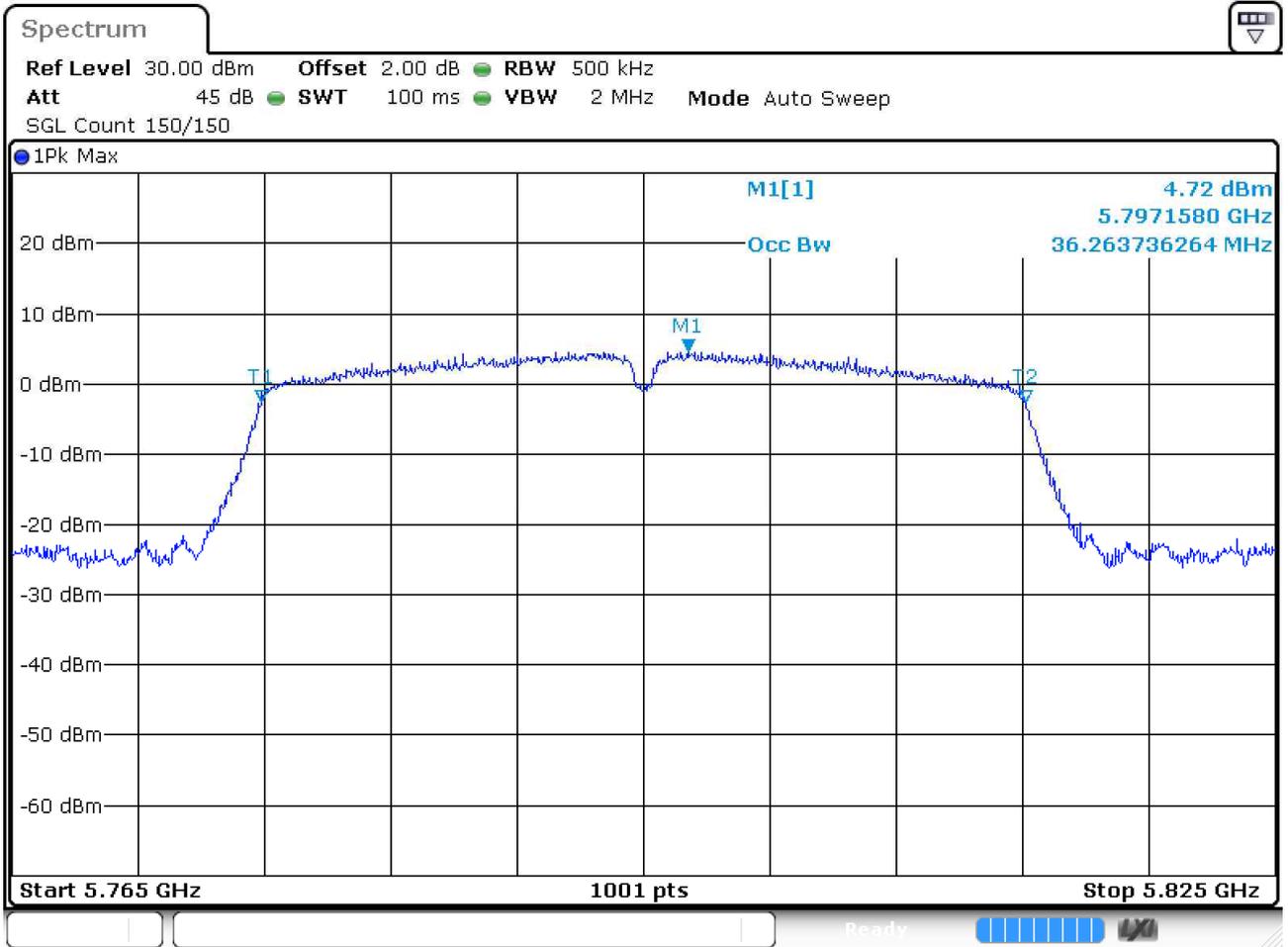


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4.7.2.33 11N40_159 ANT 1

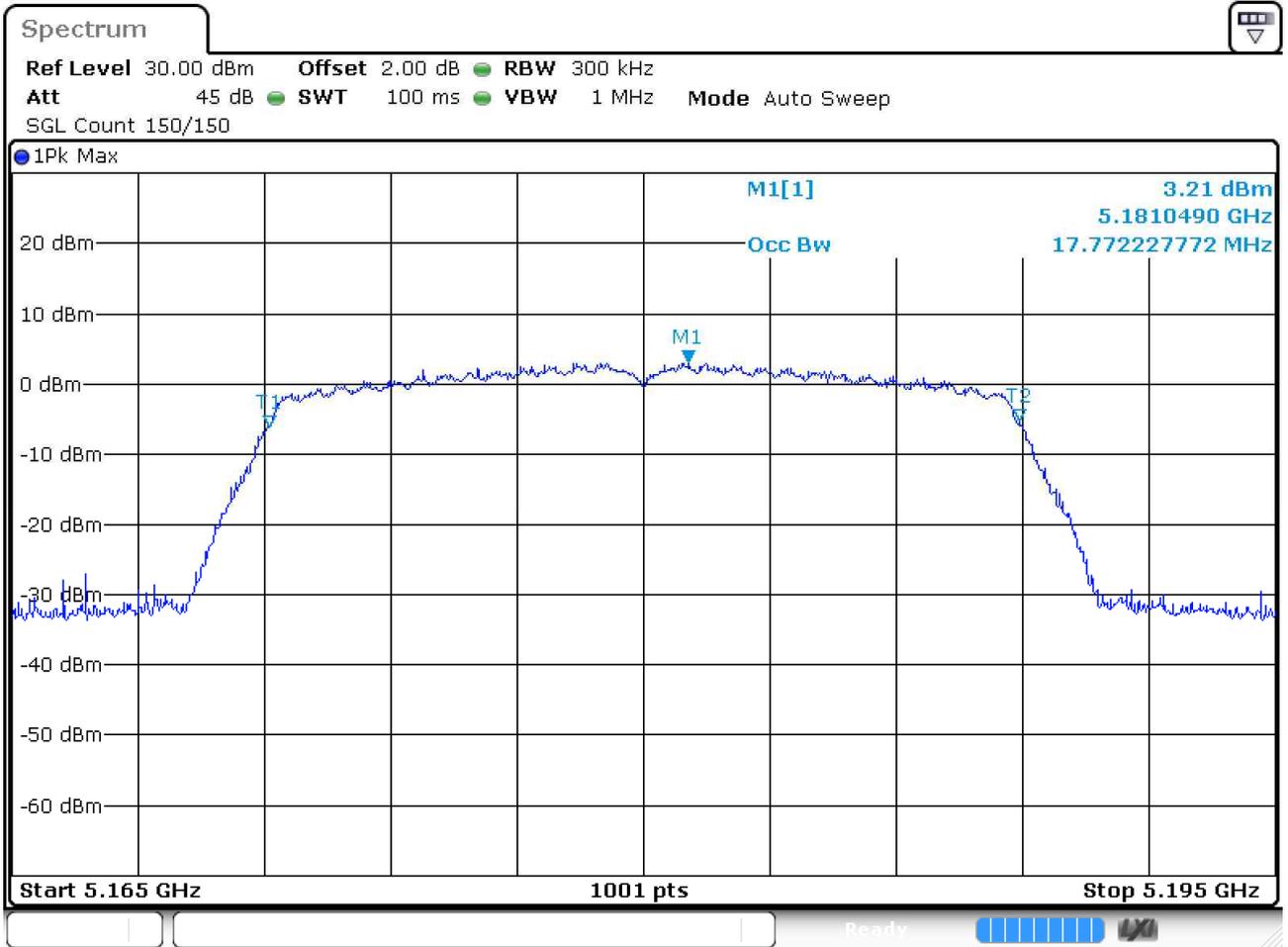


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4.7.2.34 11AC20_36 ANT 1



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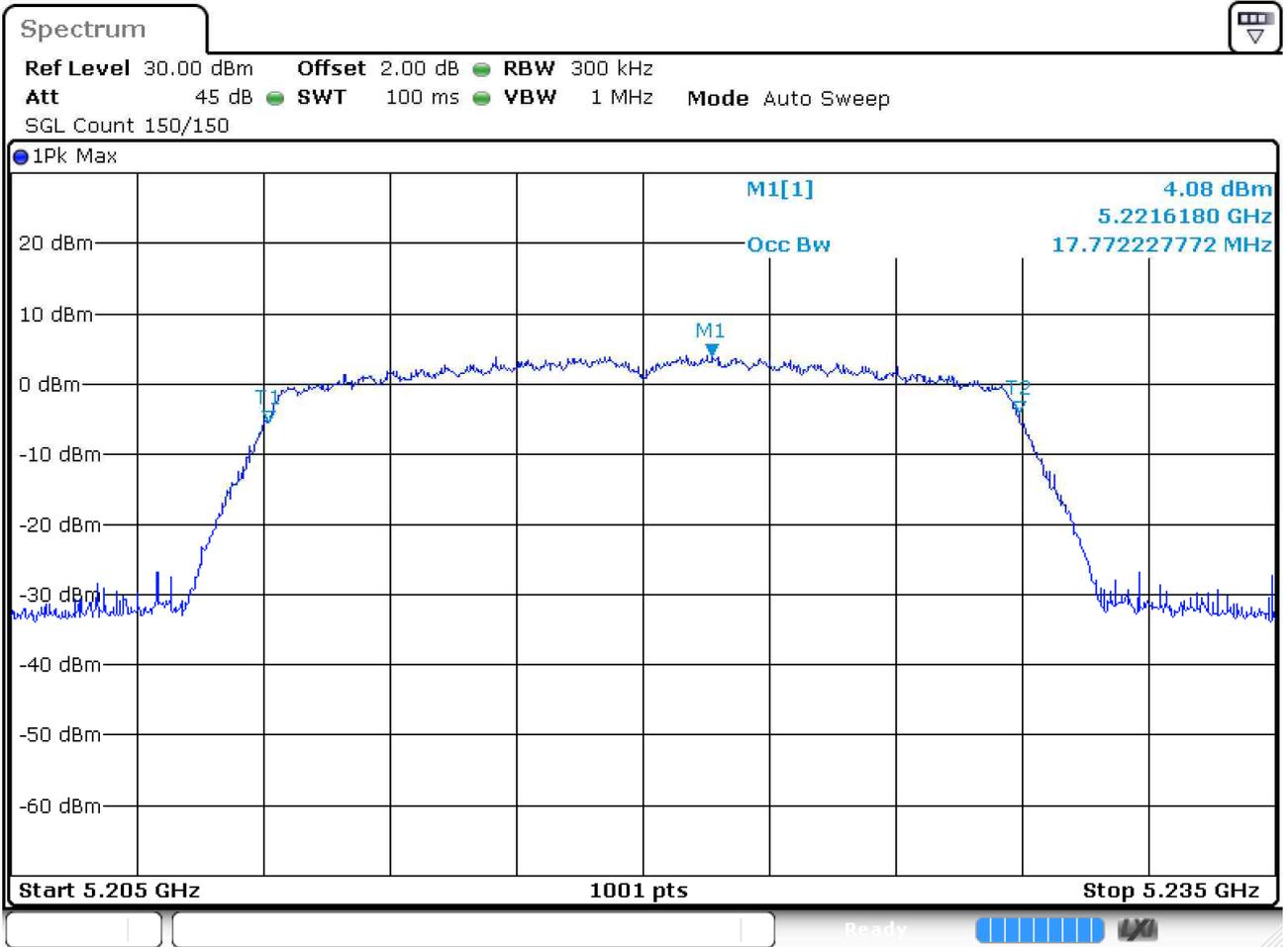


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4.7.2.35 11AC20_44 ANT 1



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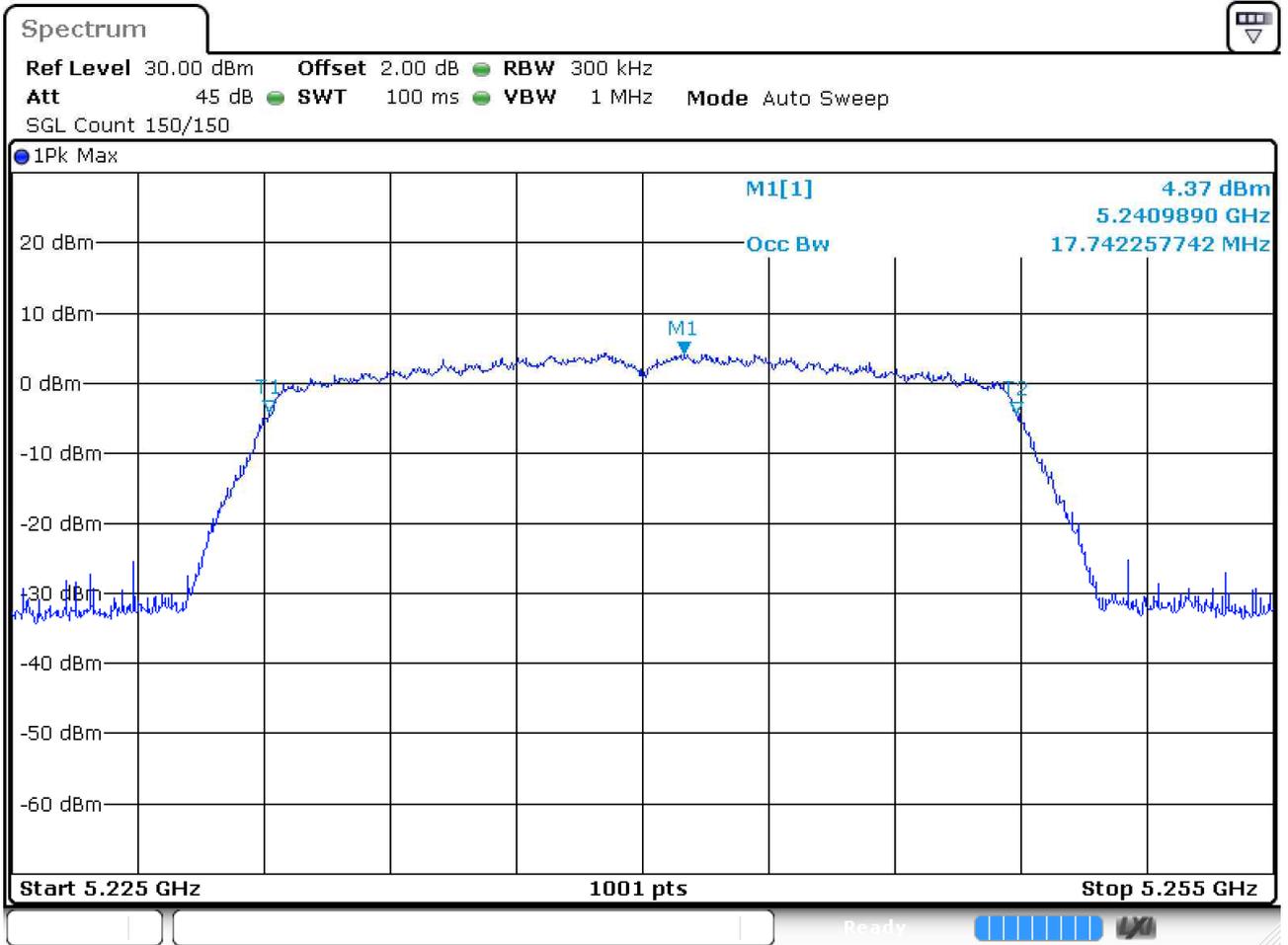


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4.7.2.36 11AC20_48 ANT 1



Date: 19.AUG.2020 15:25:59

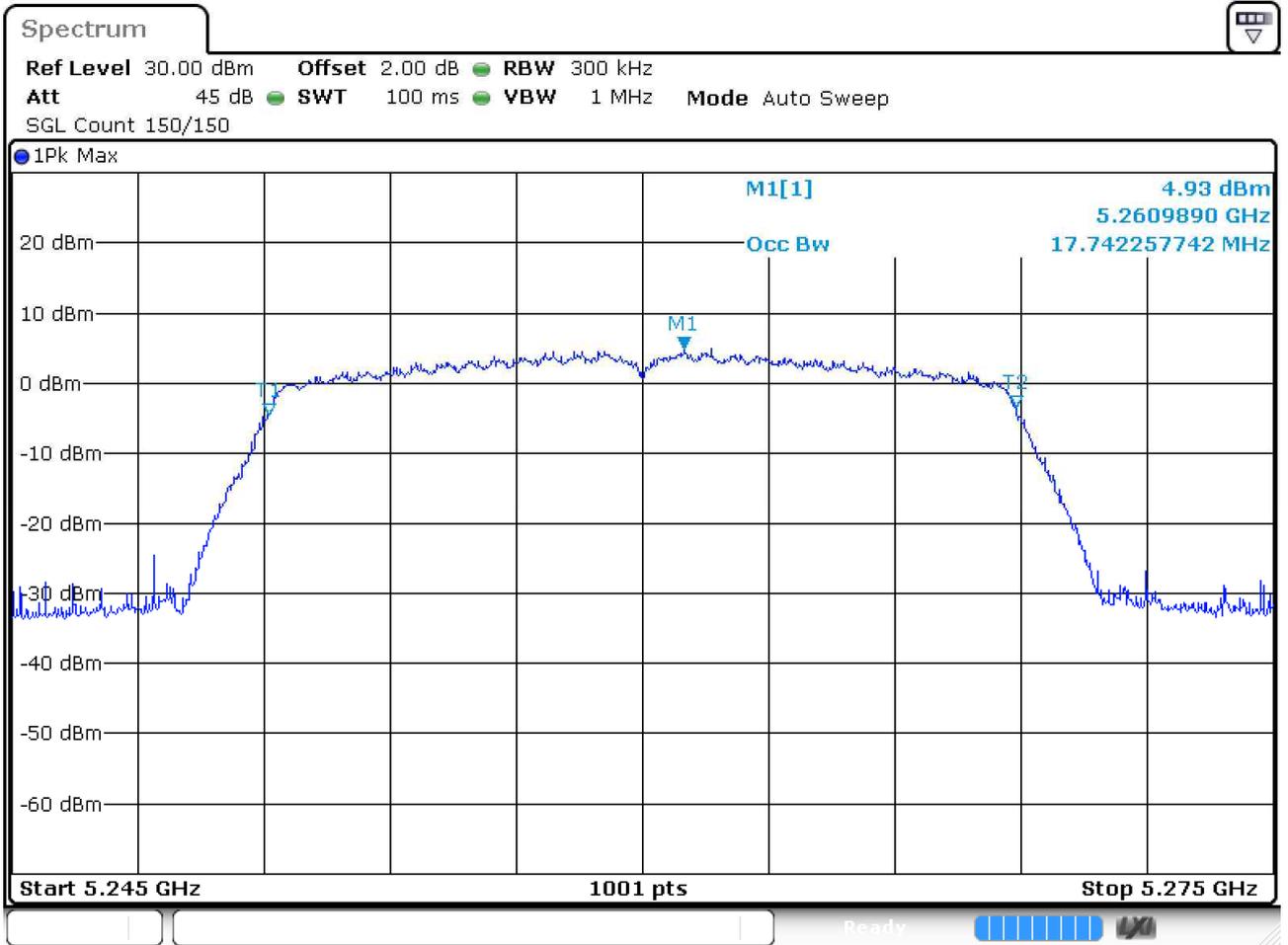


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4.7.2.37 11AC20_52 ANT 1



Date: 19.AUG.2020 15:27:30

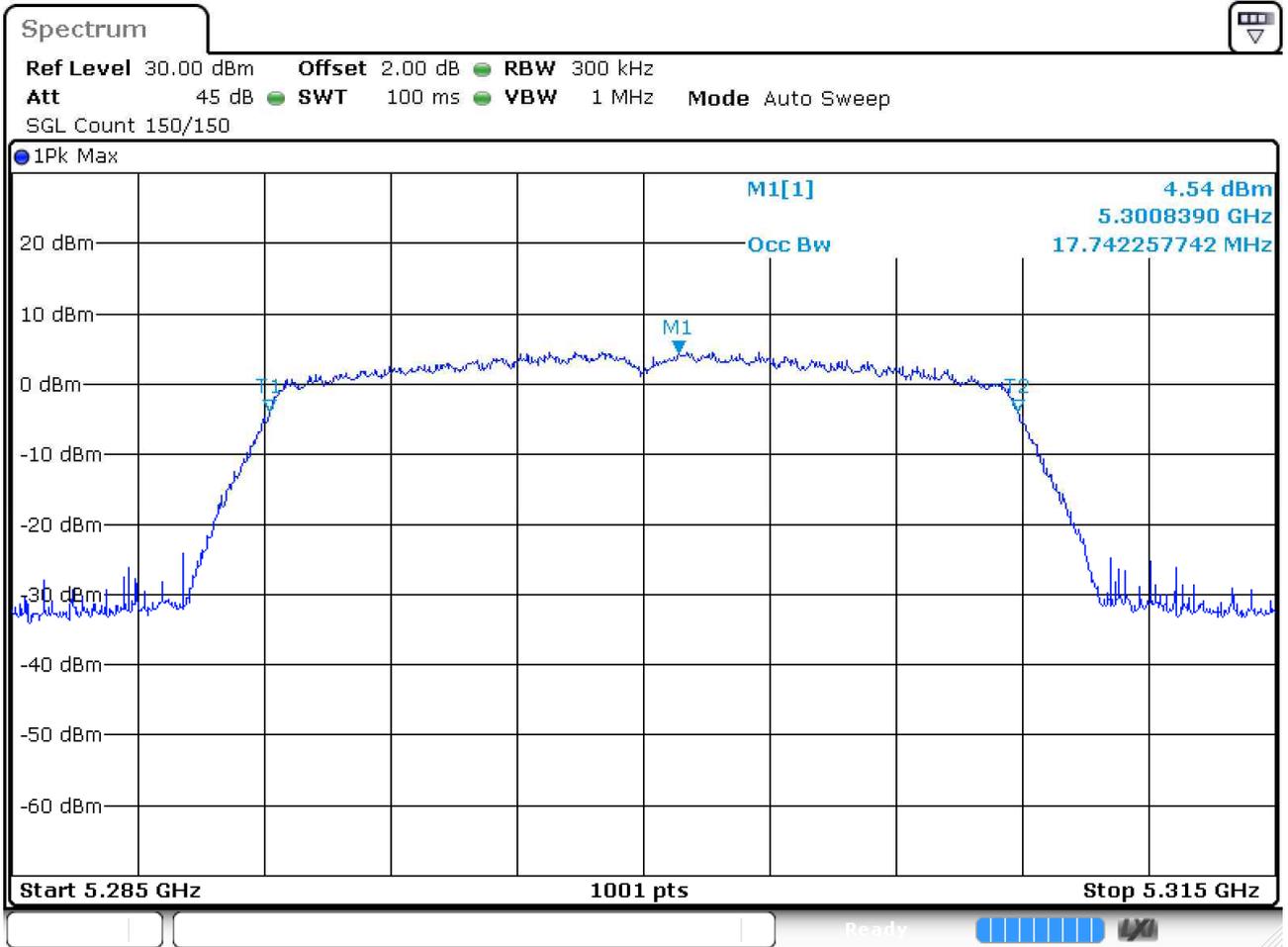


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4.7.2.38 11AC20_60 ANT 1



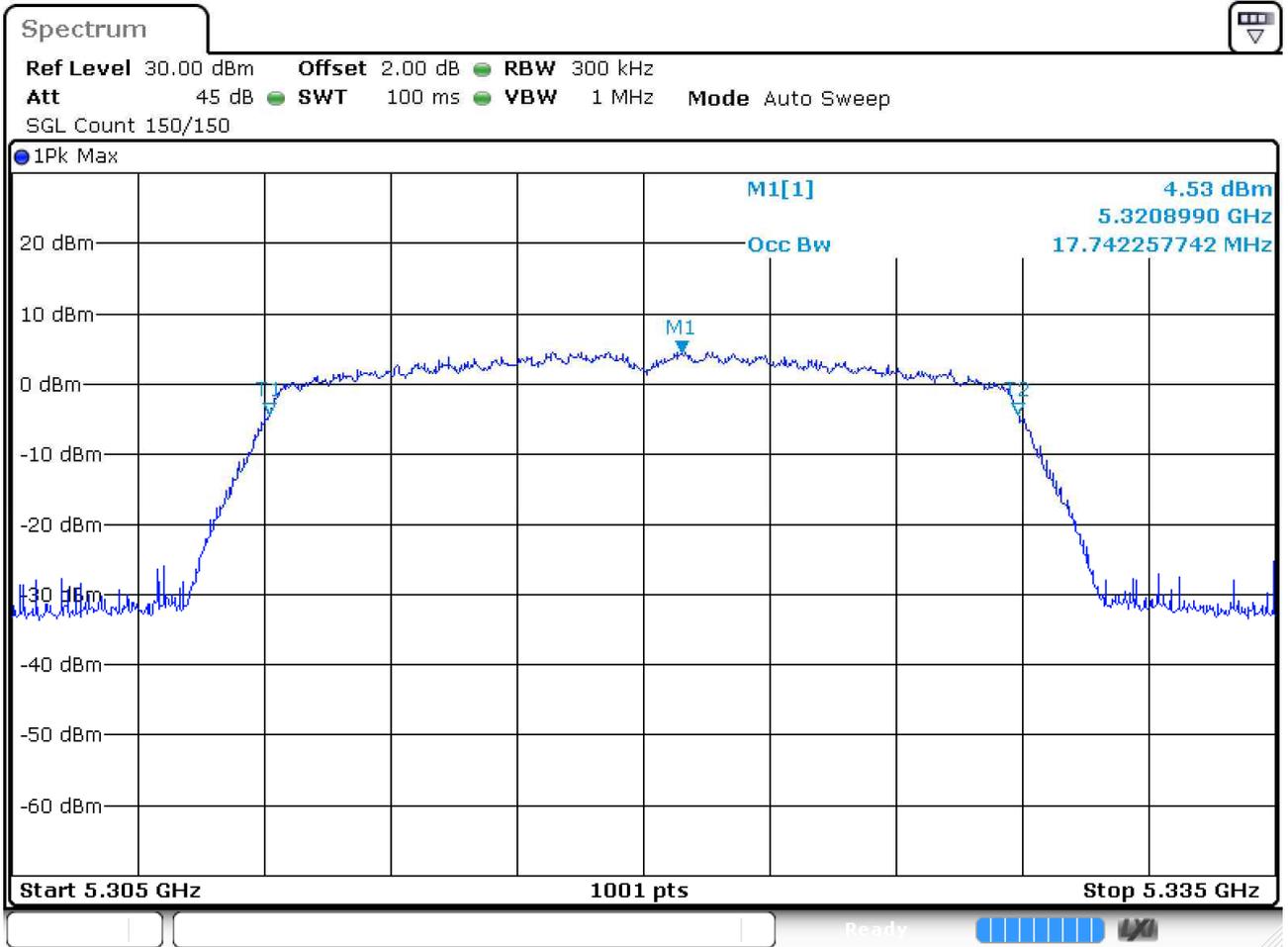
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4.7.2.39 11AC20_64 ANT 1

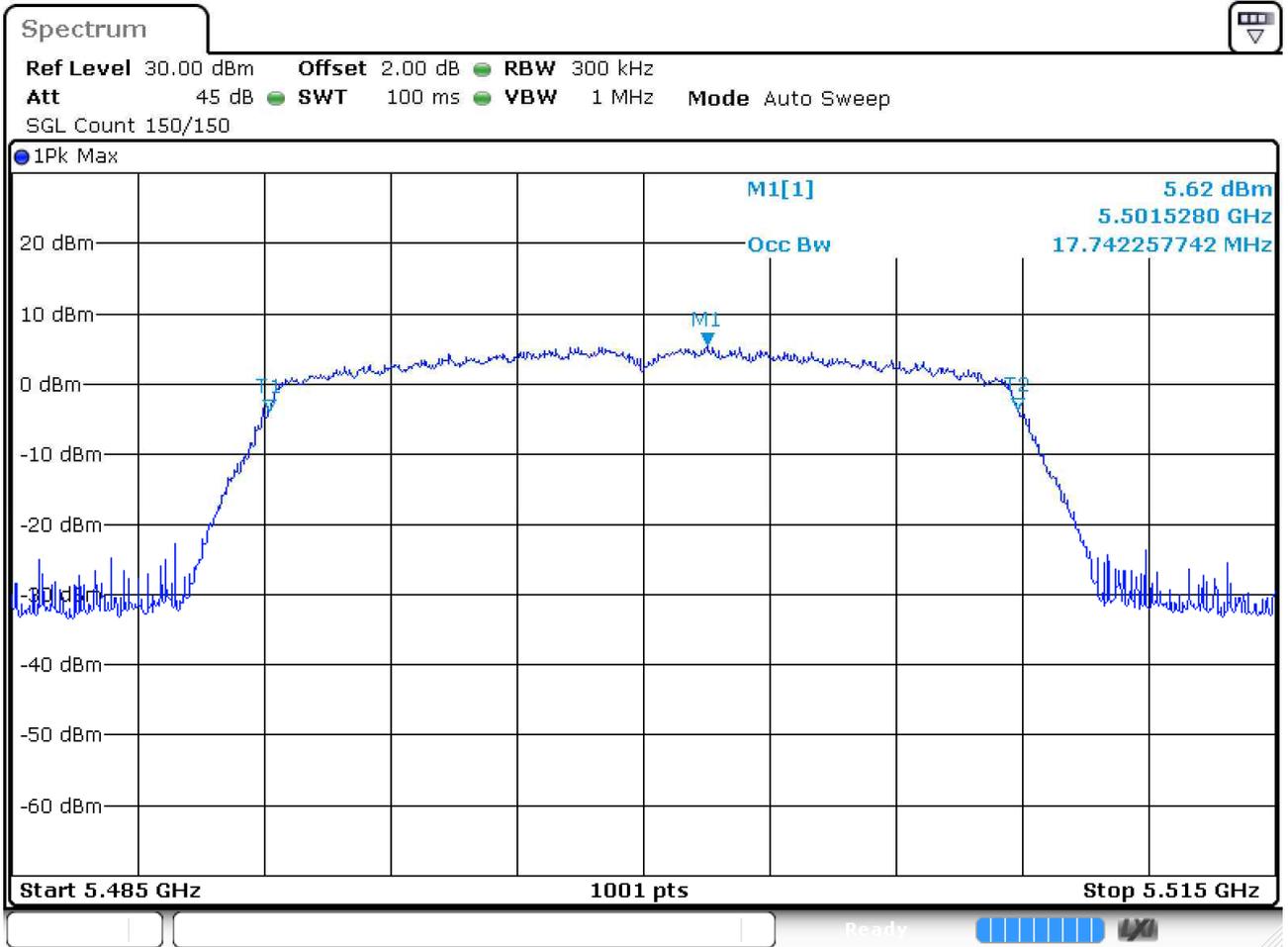


Date: 19.AUG.2020 15:30:14





4.7.2.40 11AC20_100 ANT 1



Date: 19.AUG.2020 15:31:41

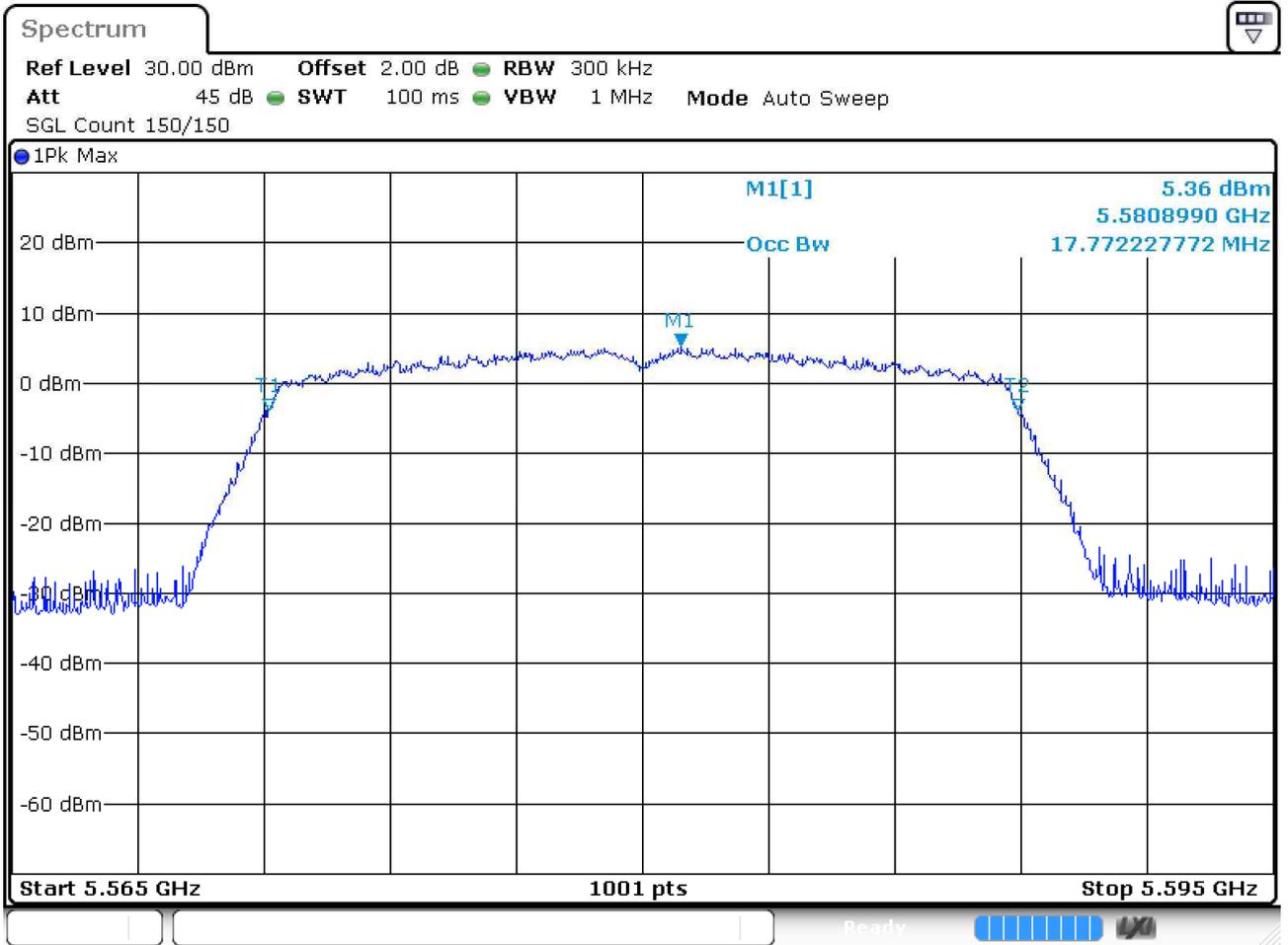


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4.7.2.41 11AC20_116 ANT 1

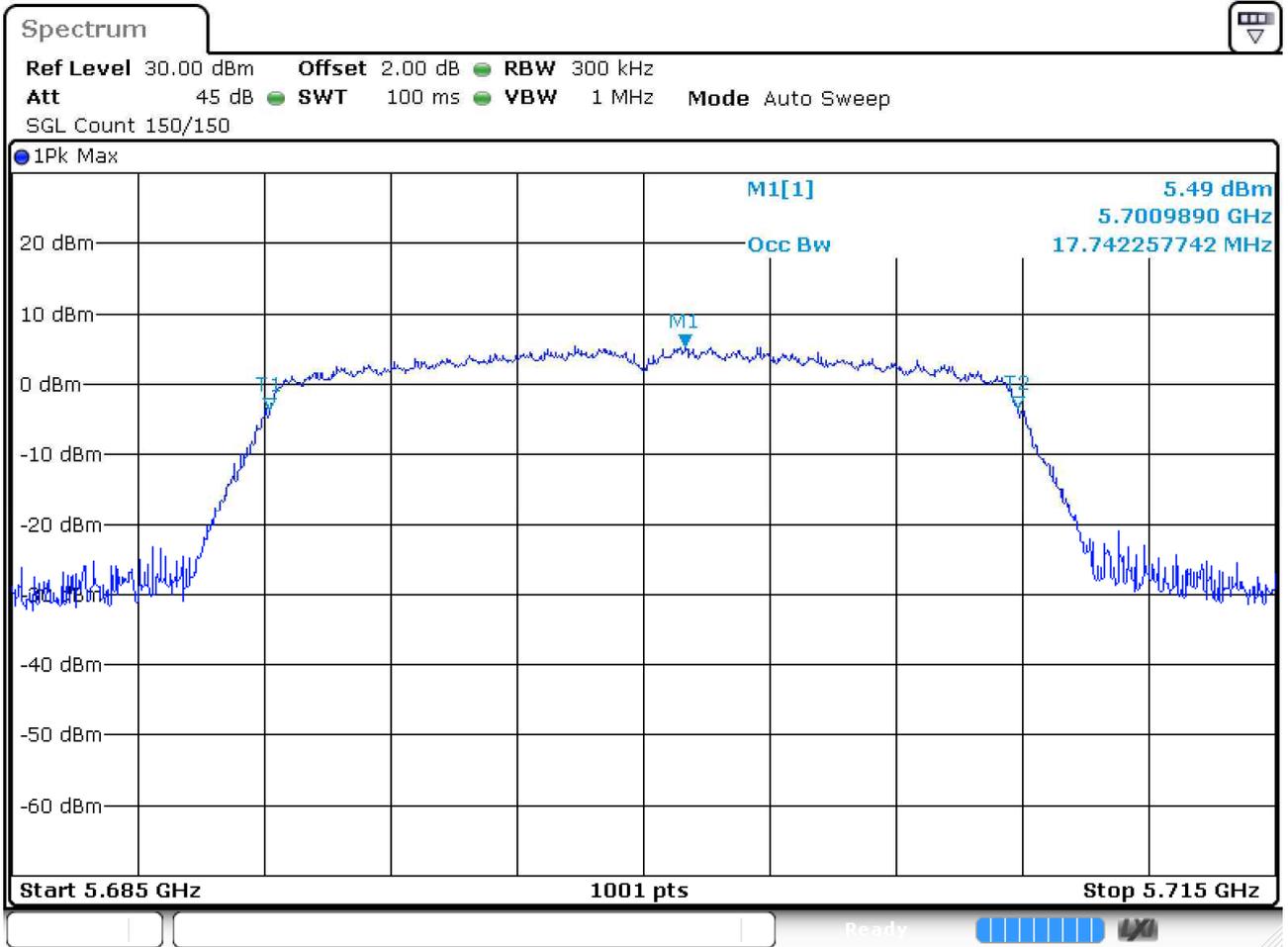


Date: 19.AUG.2020 15:33:07





4.7.2.42 11AC20_140 ANT 1

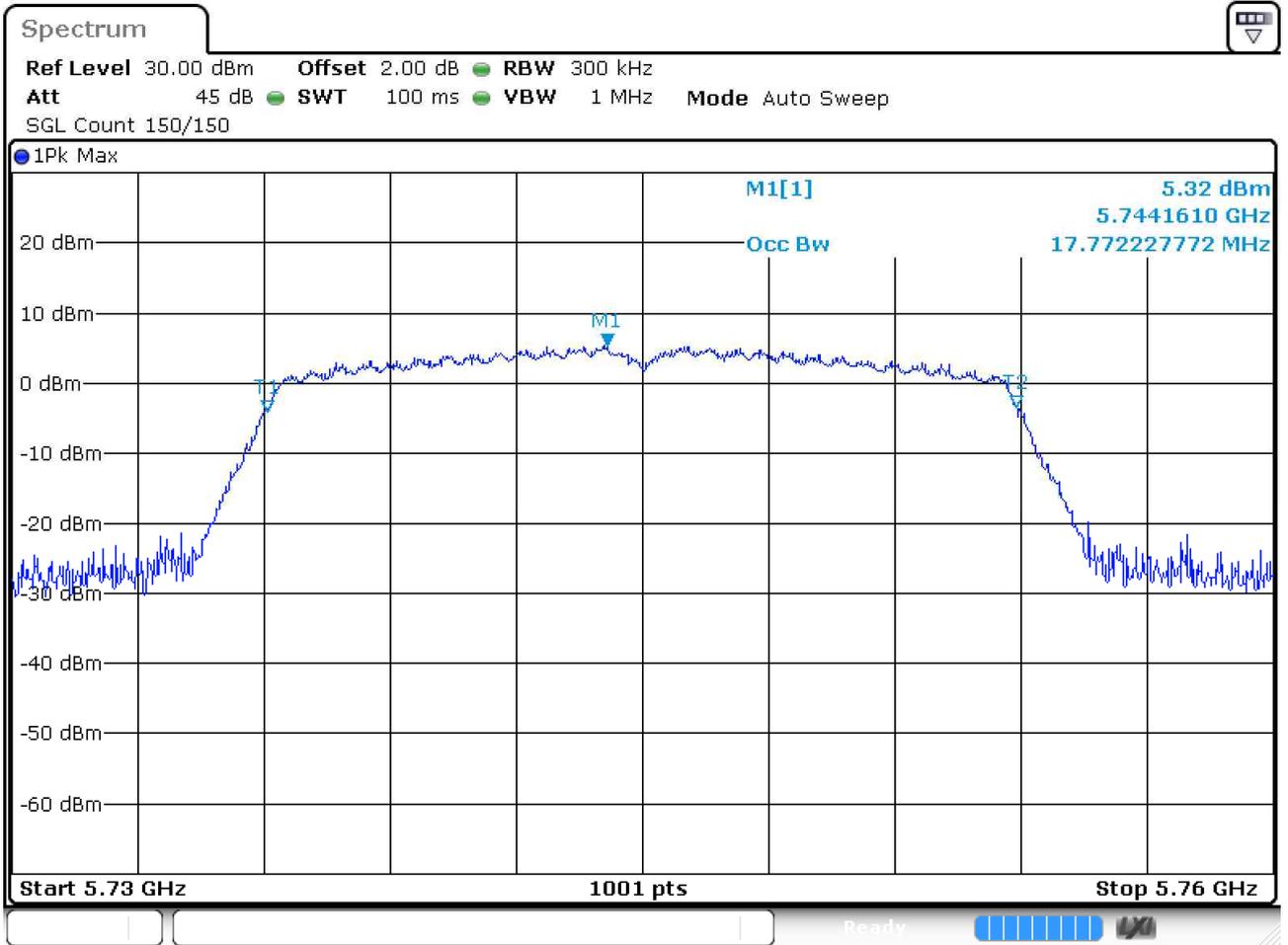


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4.7.2.43 11AC20_149 ANT 1



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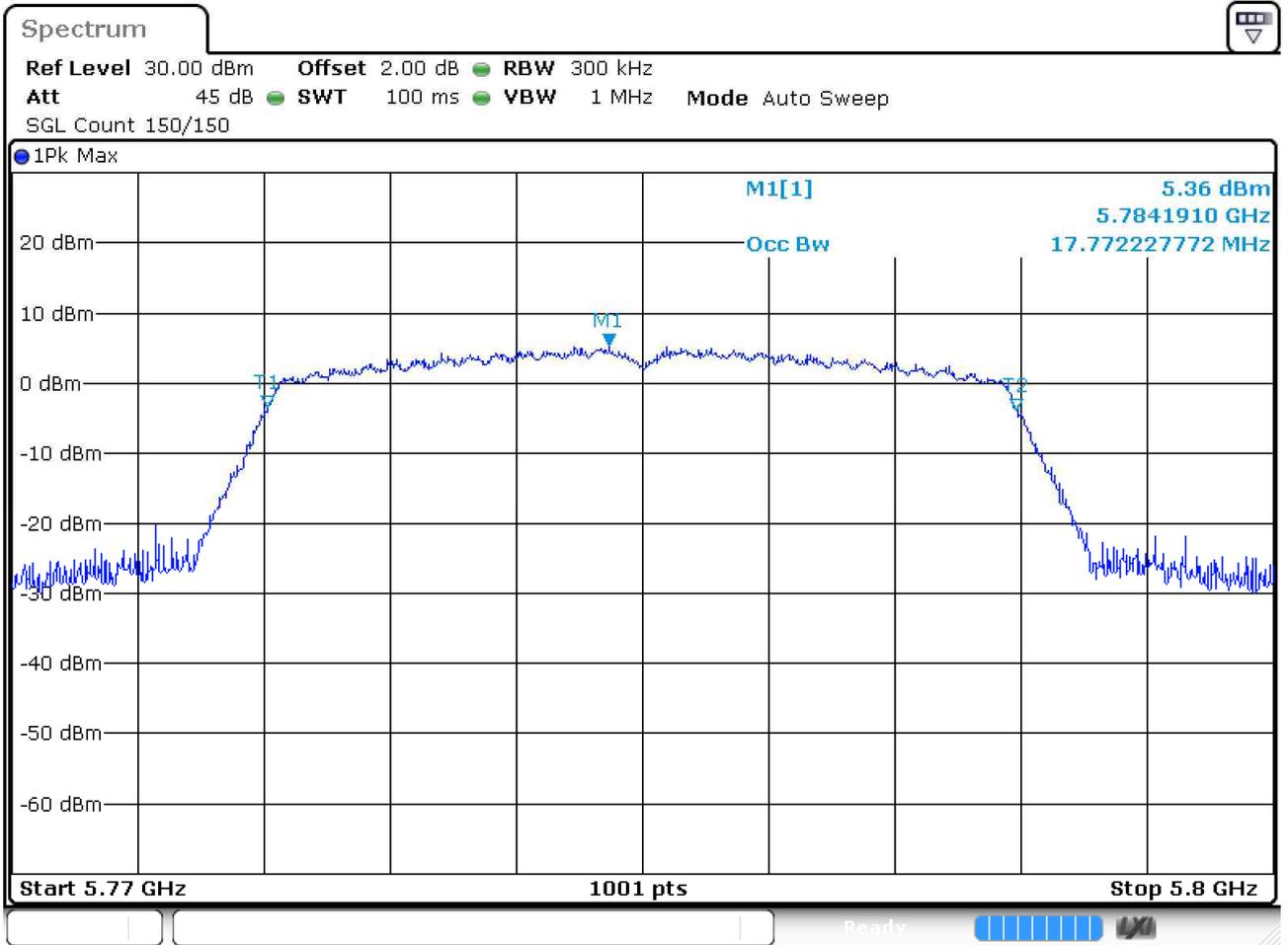


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4.7.2.44 11AC20_157 ANT 1

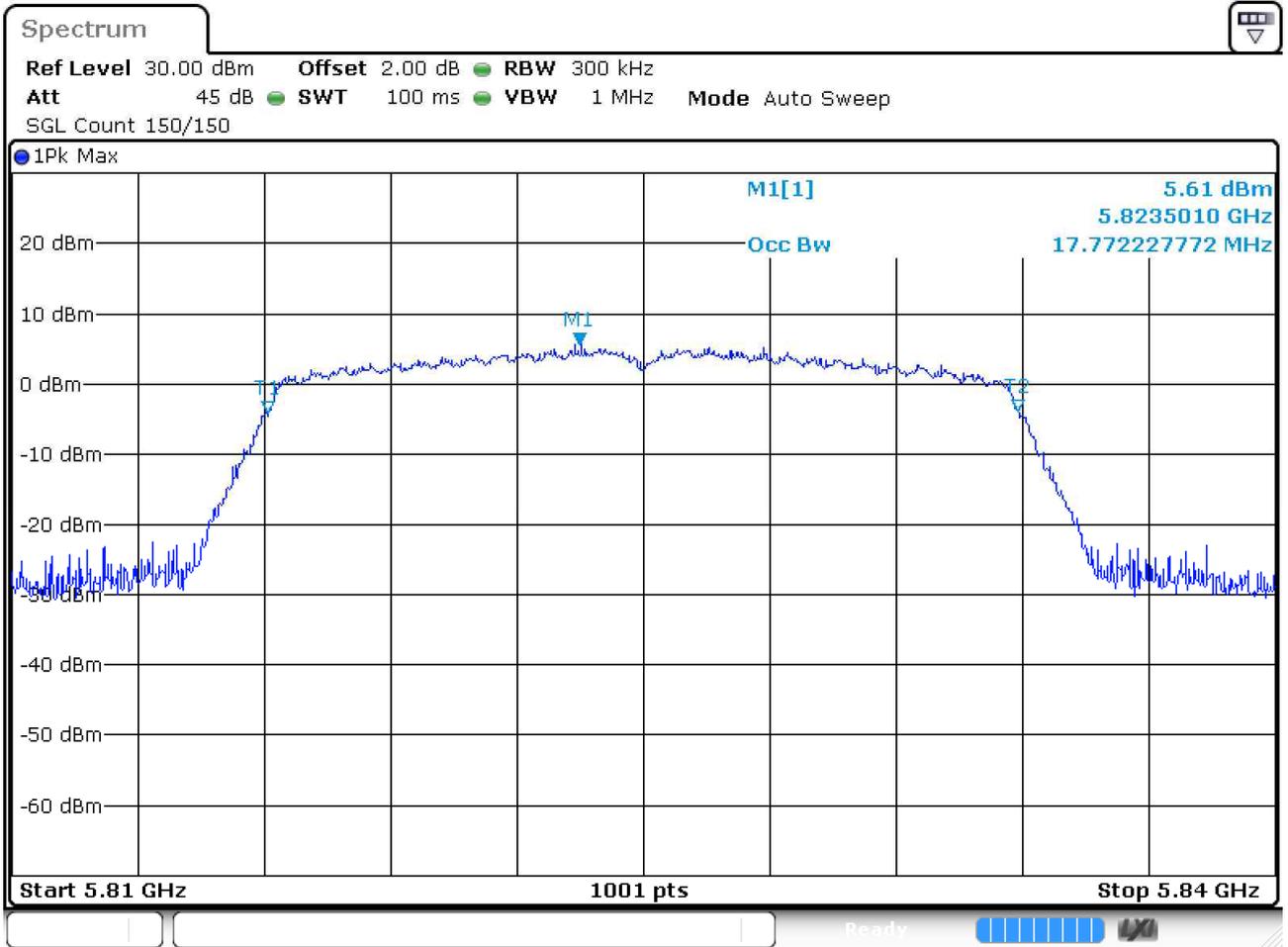


Date: 19.AUG.2020 15:37:26





4.7.2.45 11AC20_165 ANT 1



Date: 19.AUG.2020 15:38:48



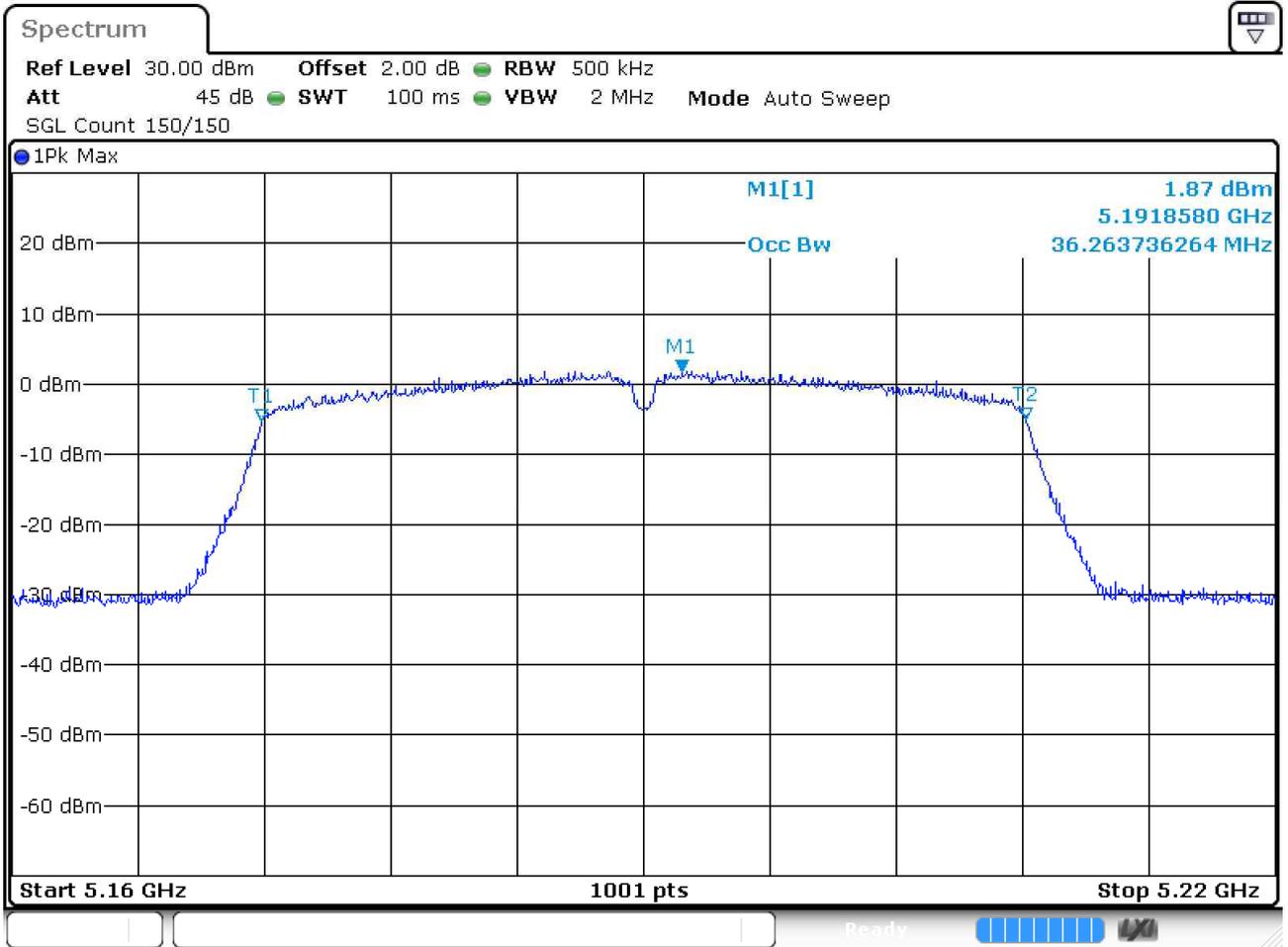
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4.7.2.46 11AC40_38 ANT 1

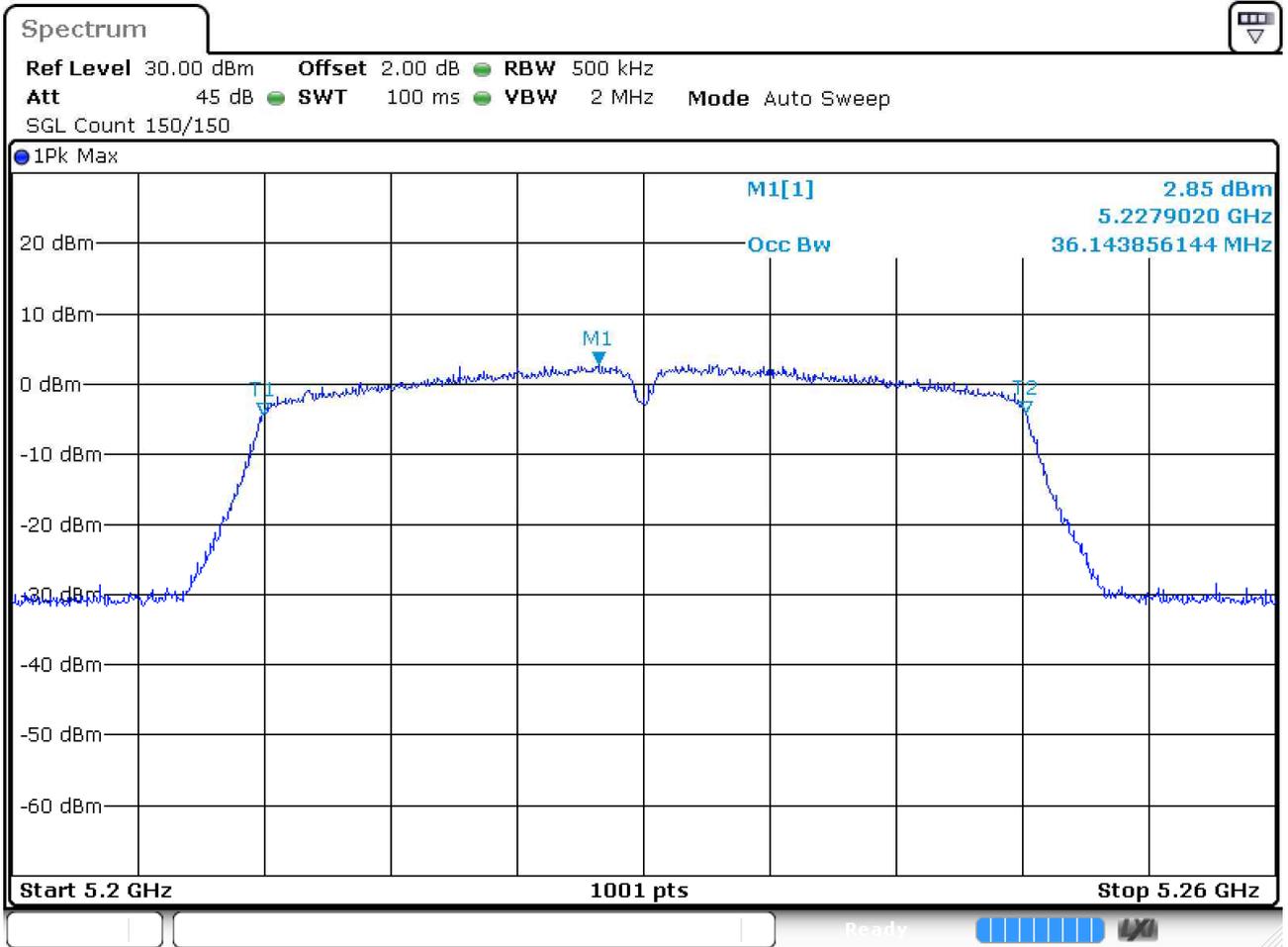


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4.7.2.47 11AC40_46 ANT 1



Date: 19.AUG.2020 15:41:56



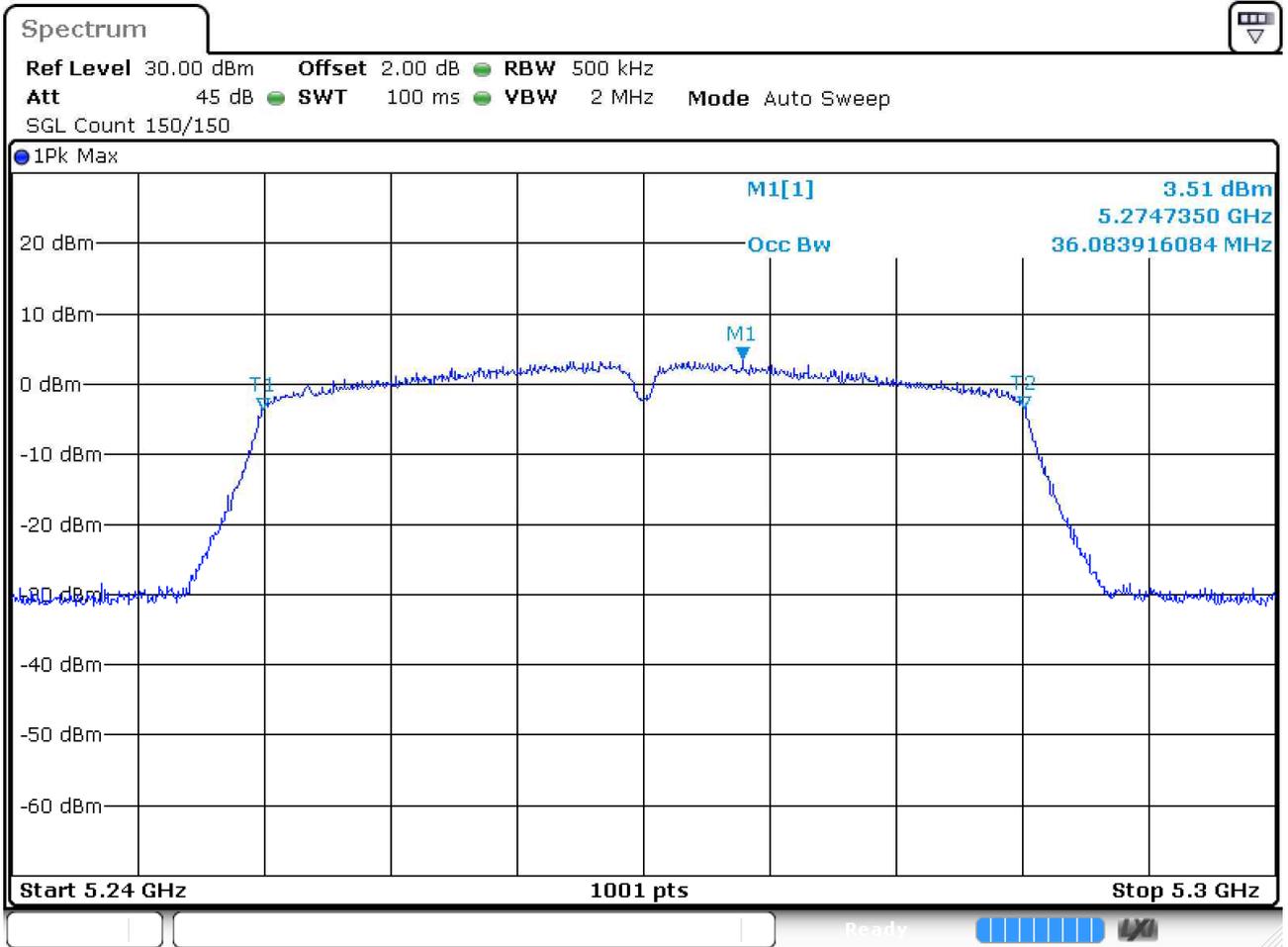
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4.7.2.48 11AC40_54 ANT 1



Date: 19.AUG.2020 15:44:16

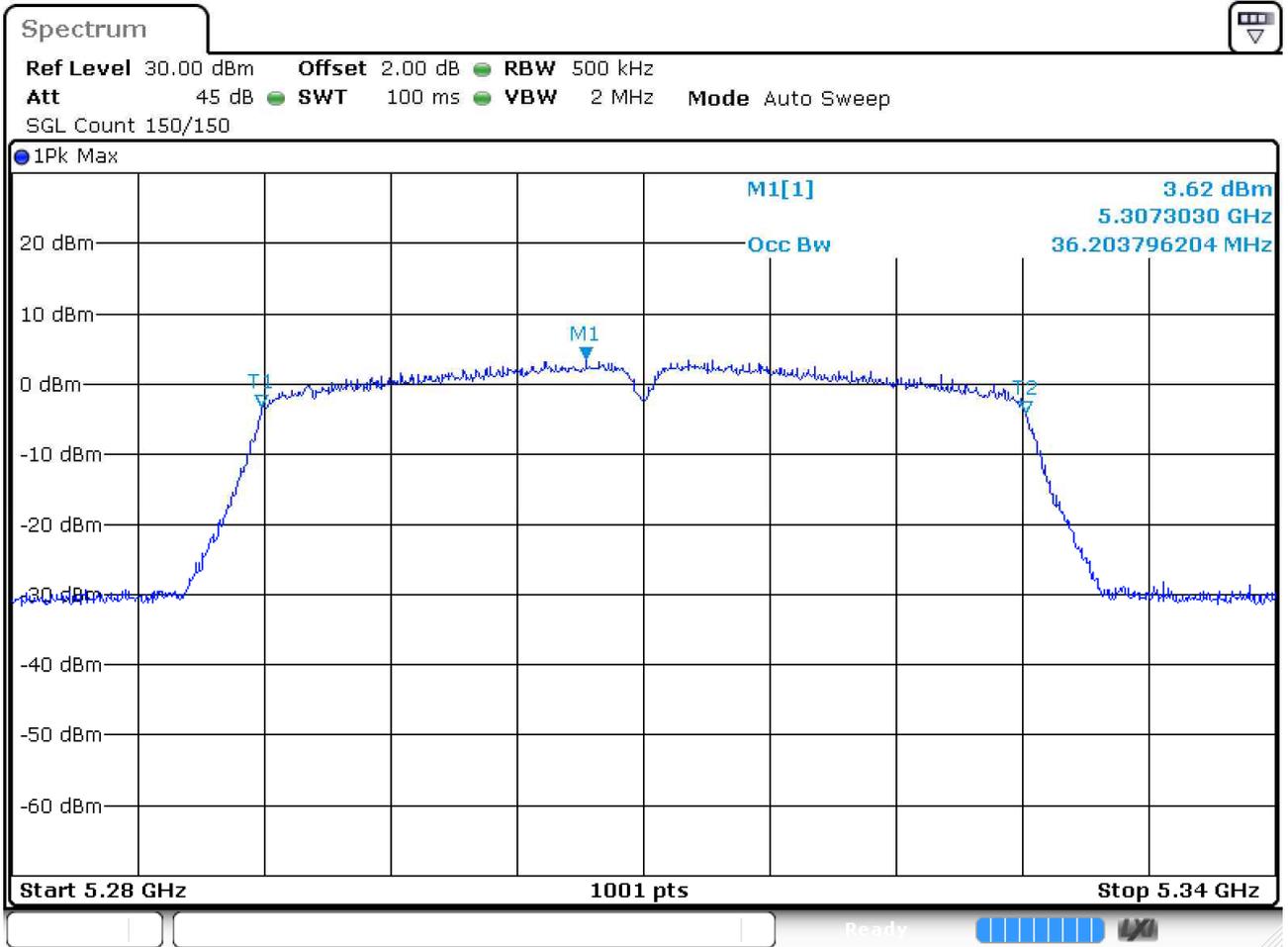


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4.7.2.49 11AC40_62 ANT 1

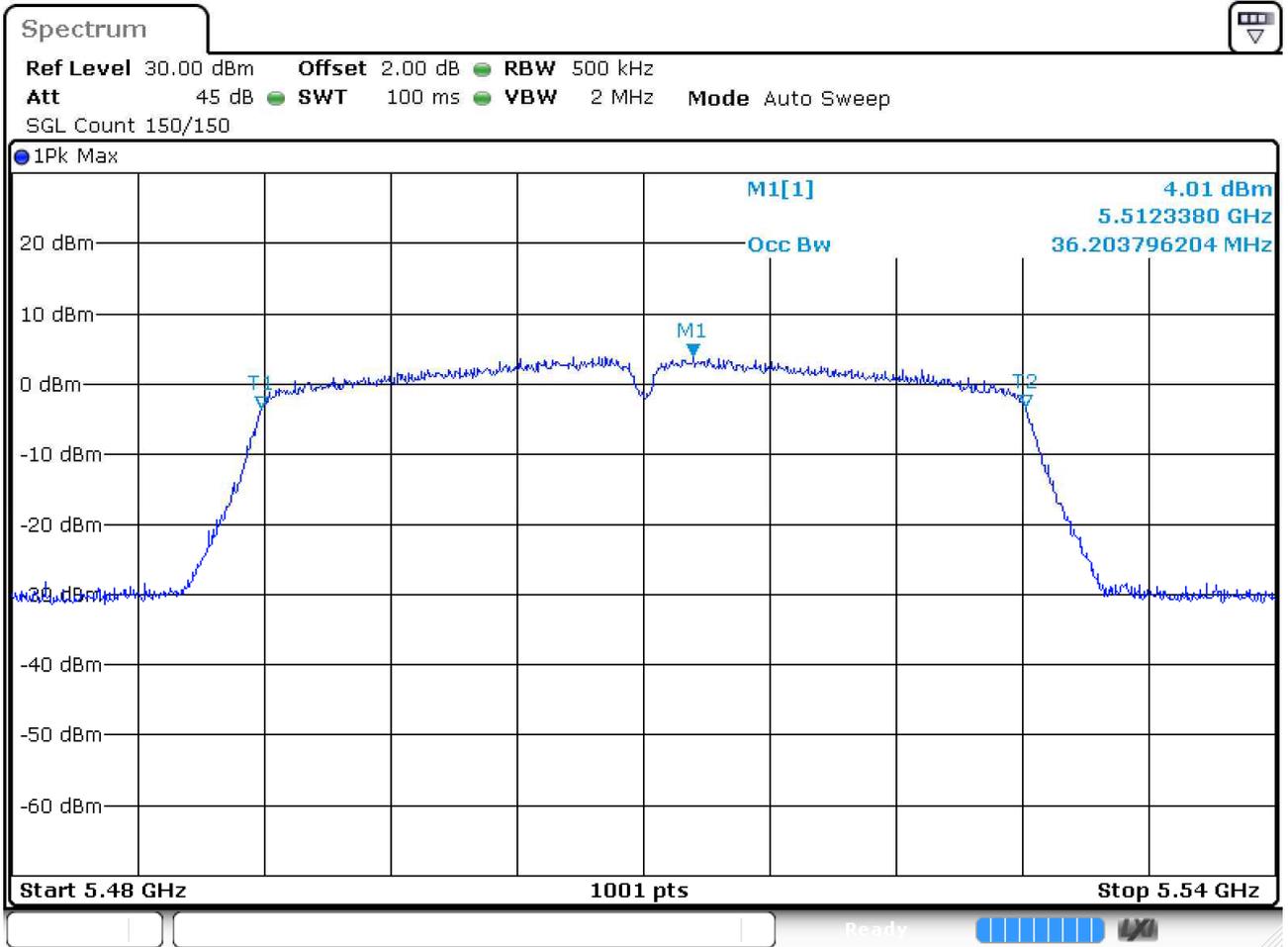


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4.7.2.50 11AC40_102 ANT 1



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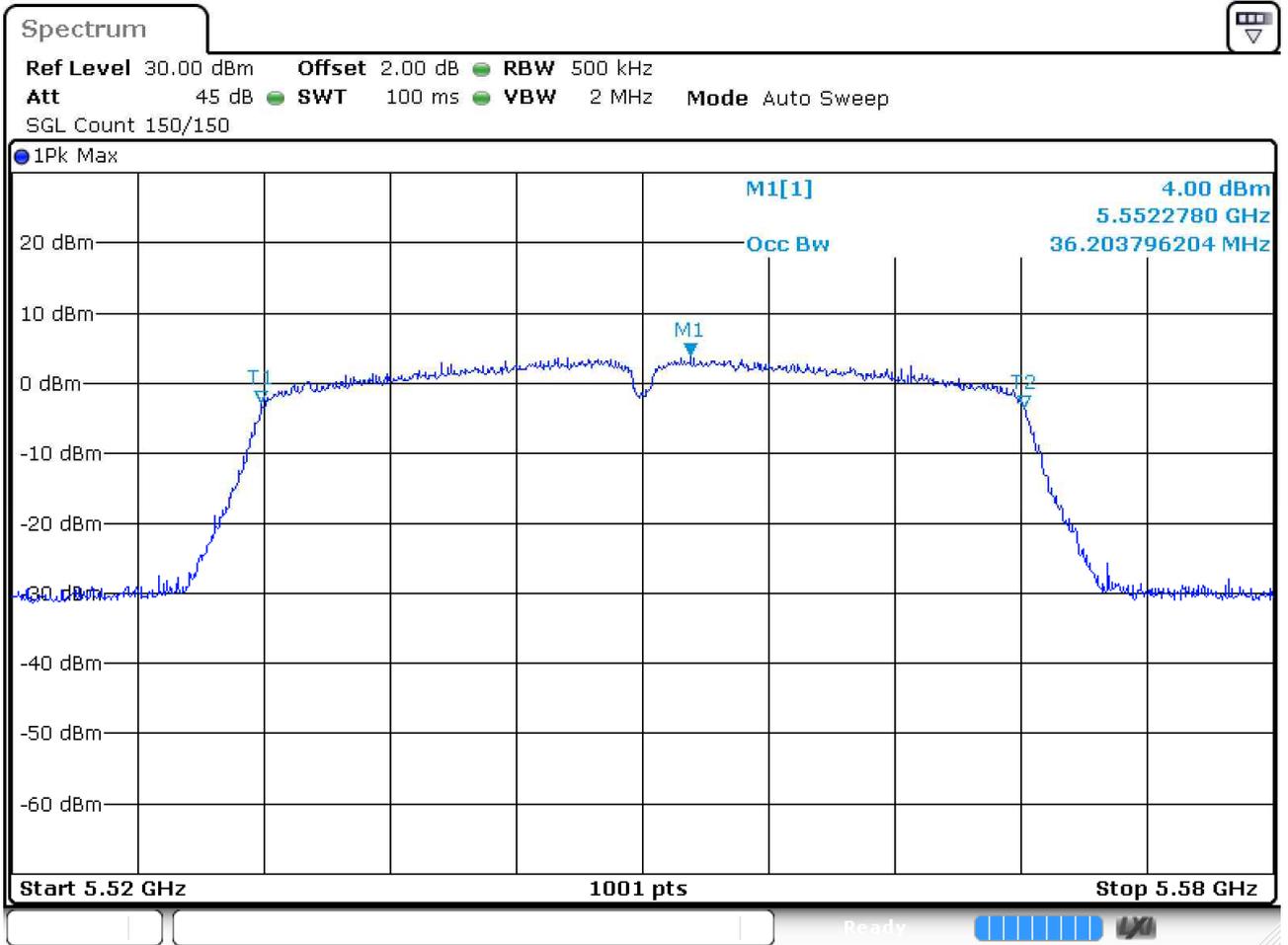


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4.7.2.51 11AC40_110 ANT 1



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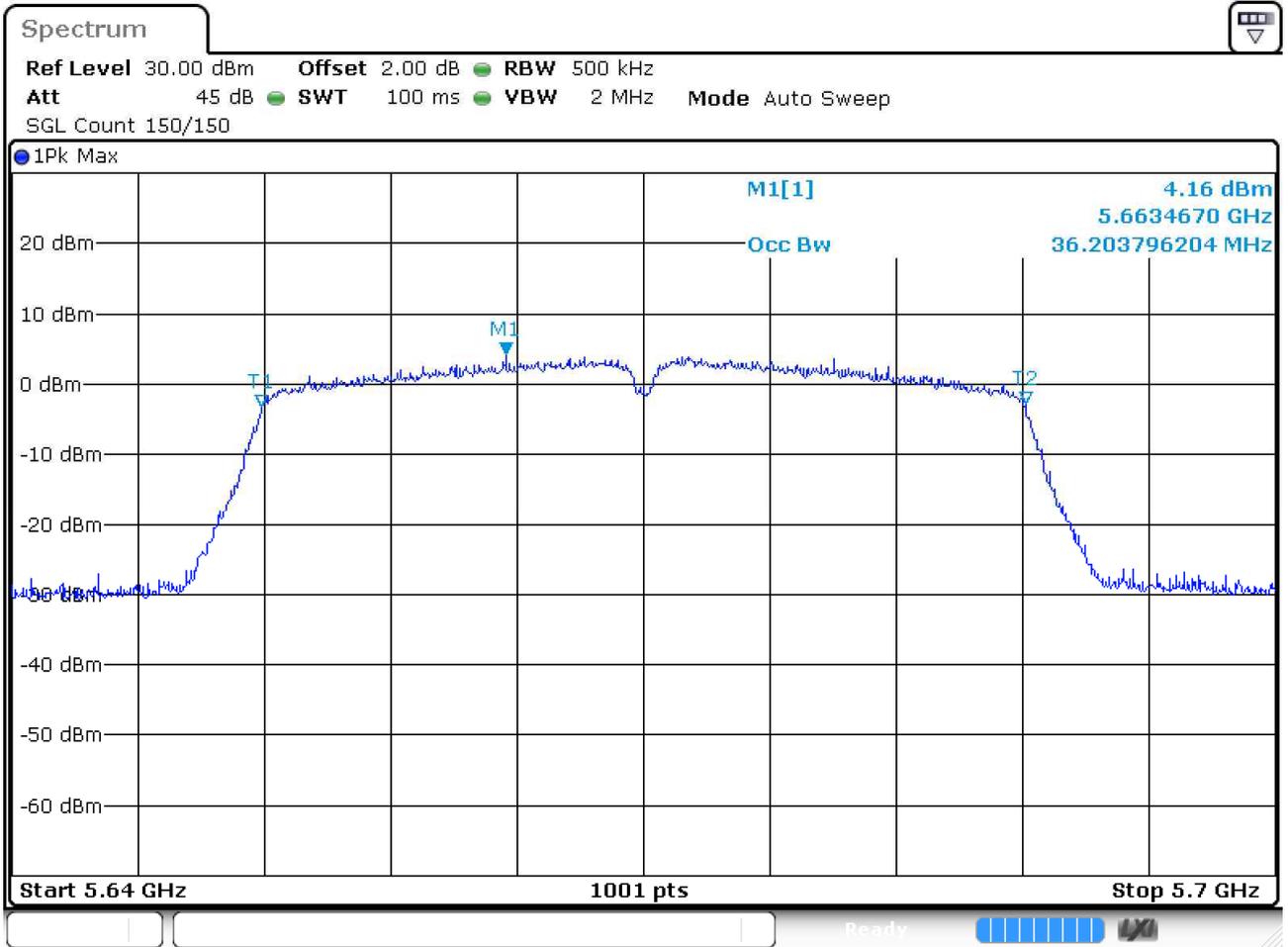


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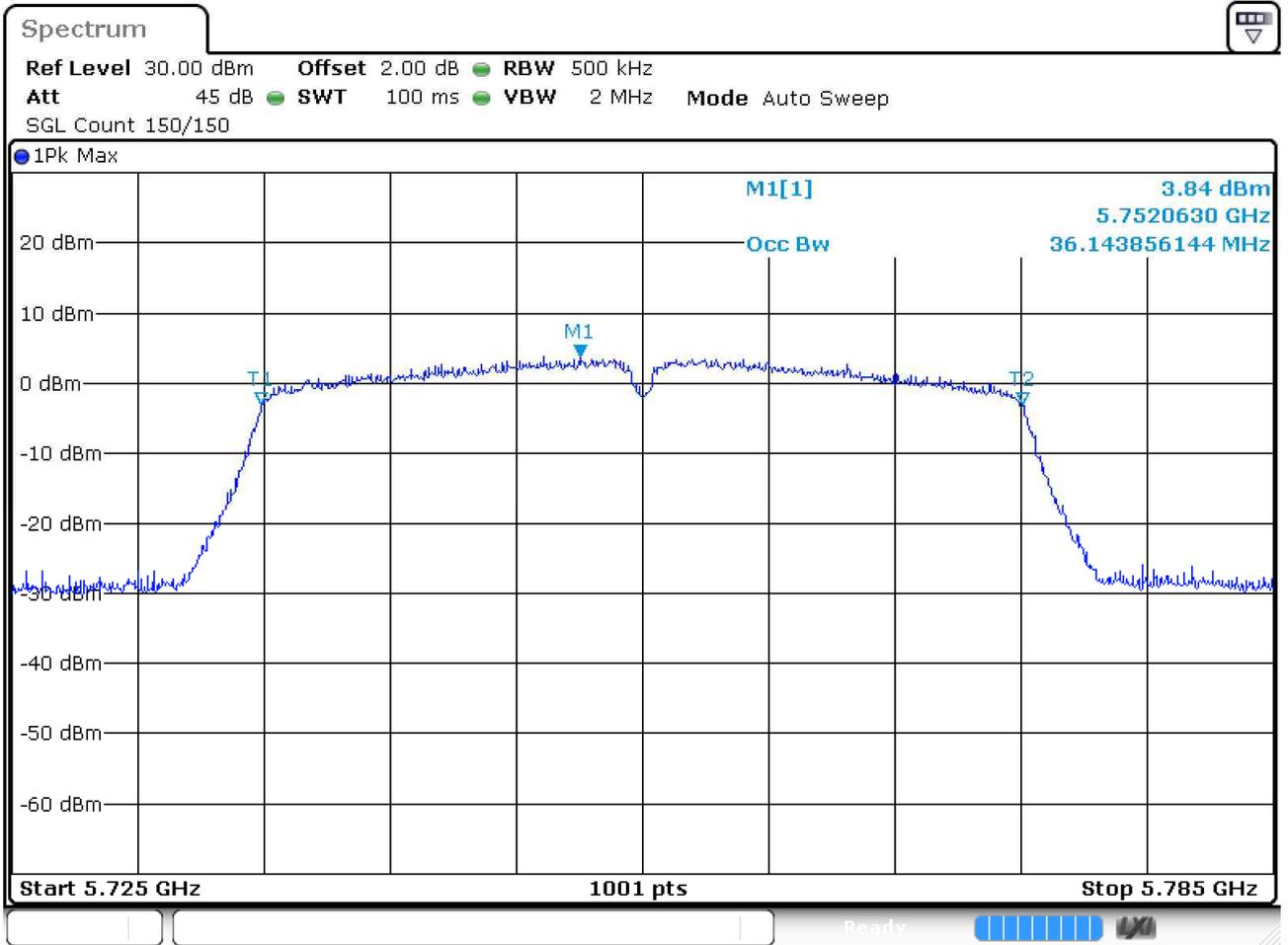


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4.7.2.53 11AC40_151 ANT 1

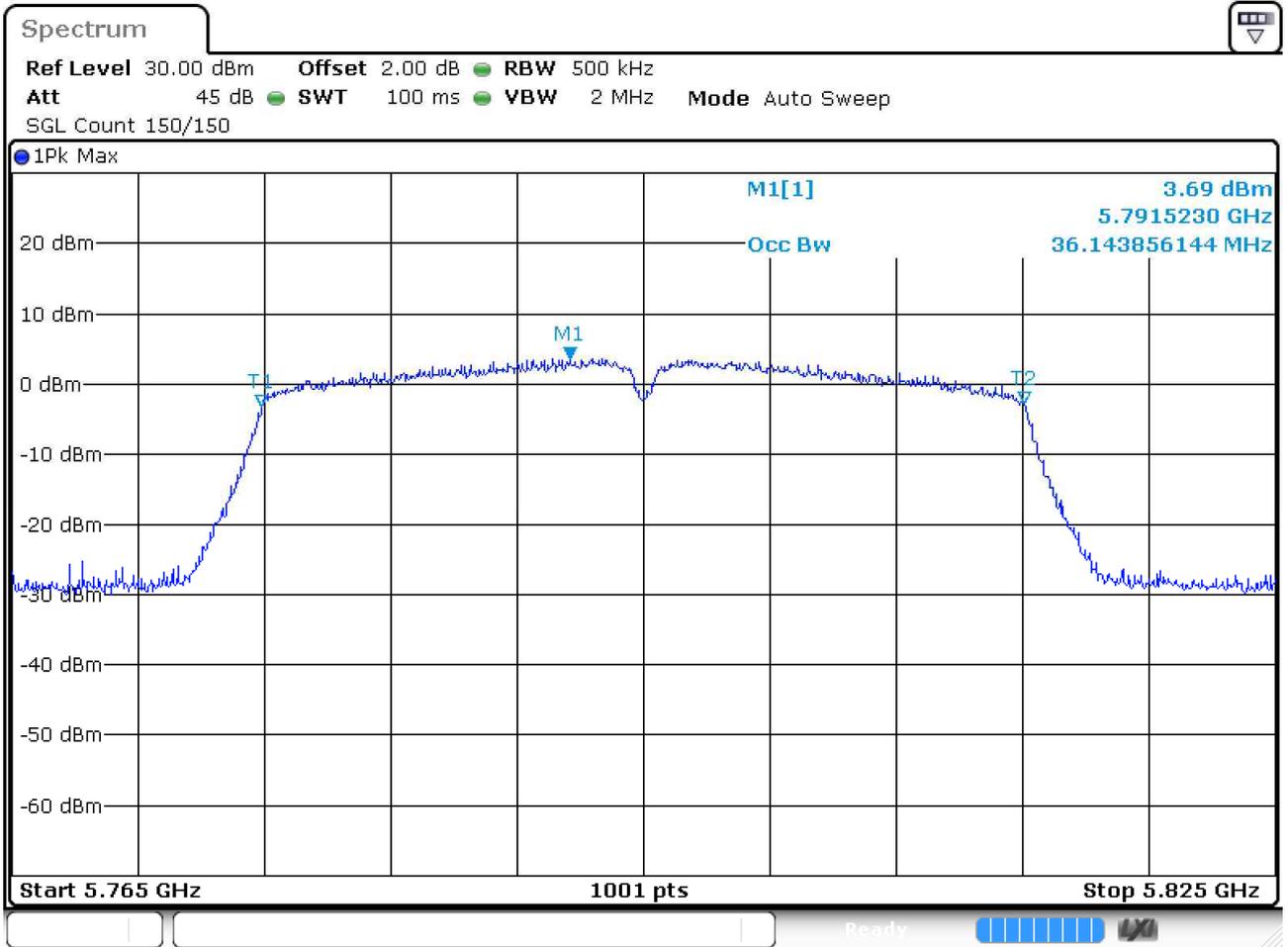


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4.7.2.54 11AC40_159 ANT 1



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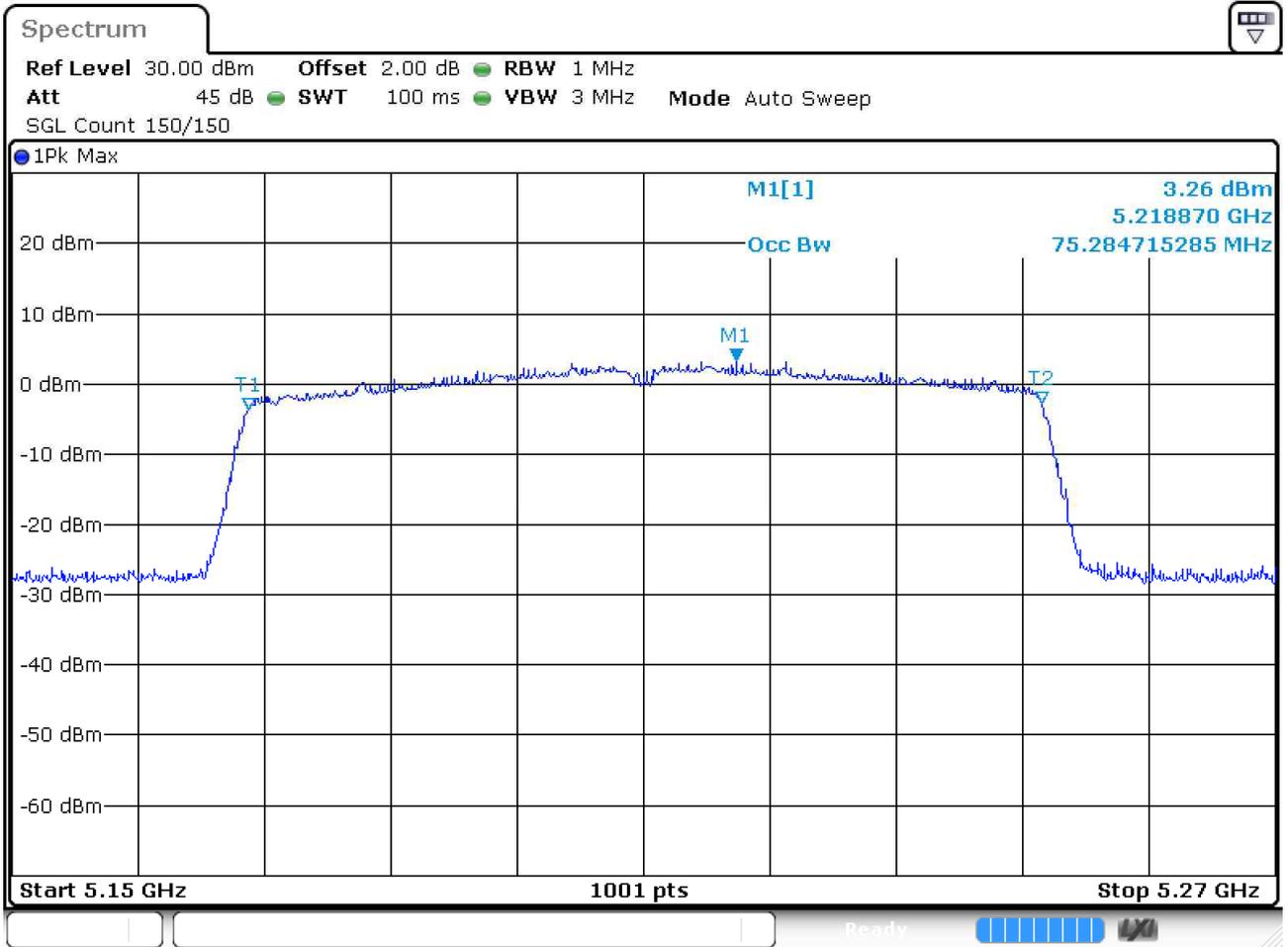


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4.7.2.55 11AC80_42 ANT 1



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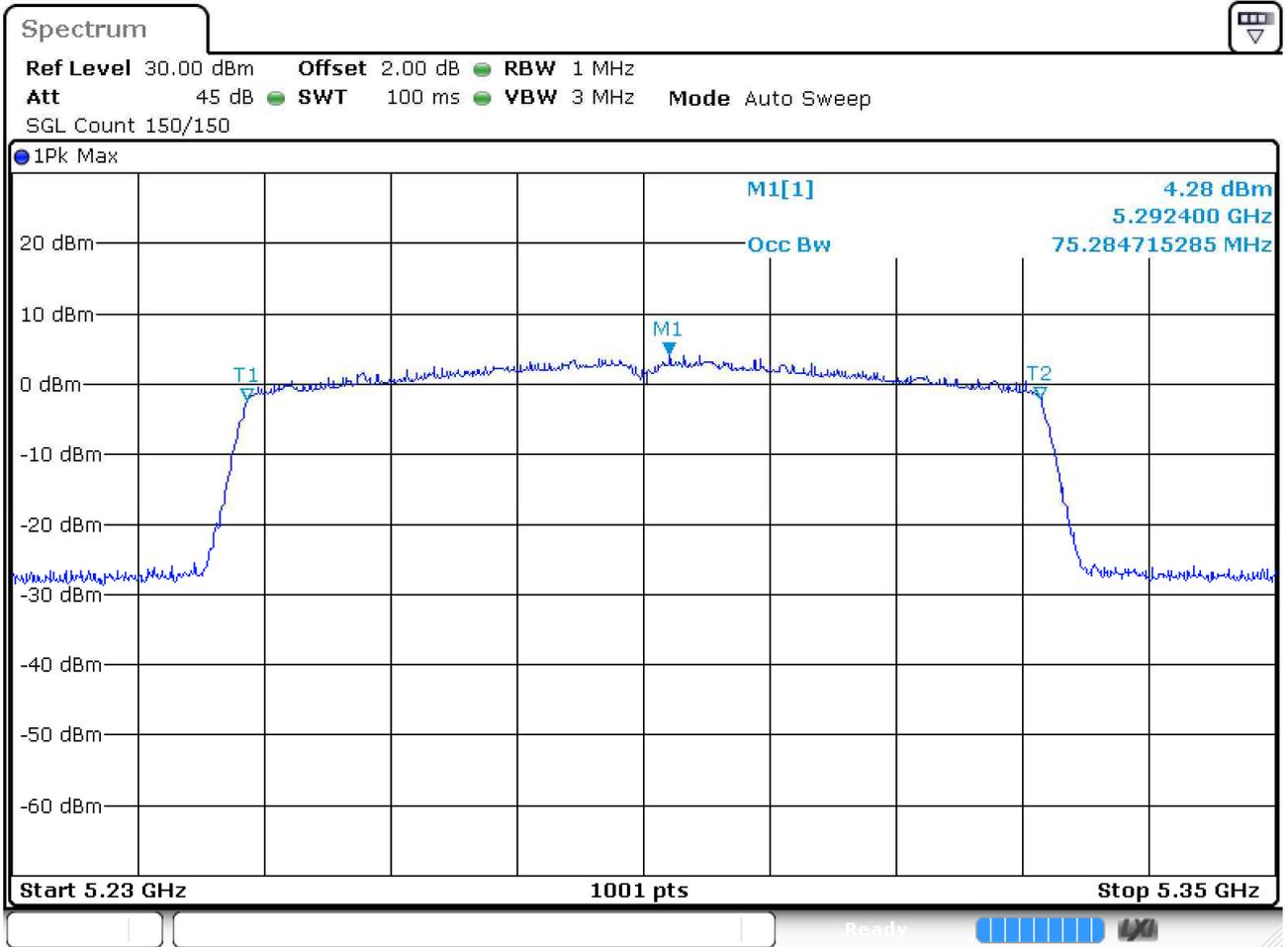


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4.7.2.56 11AC80_58 ANT 1

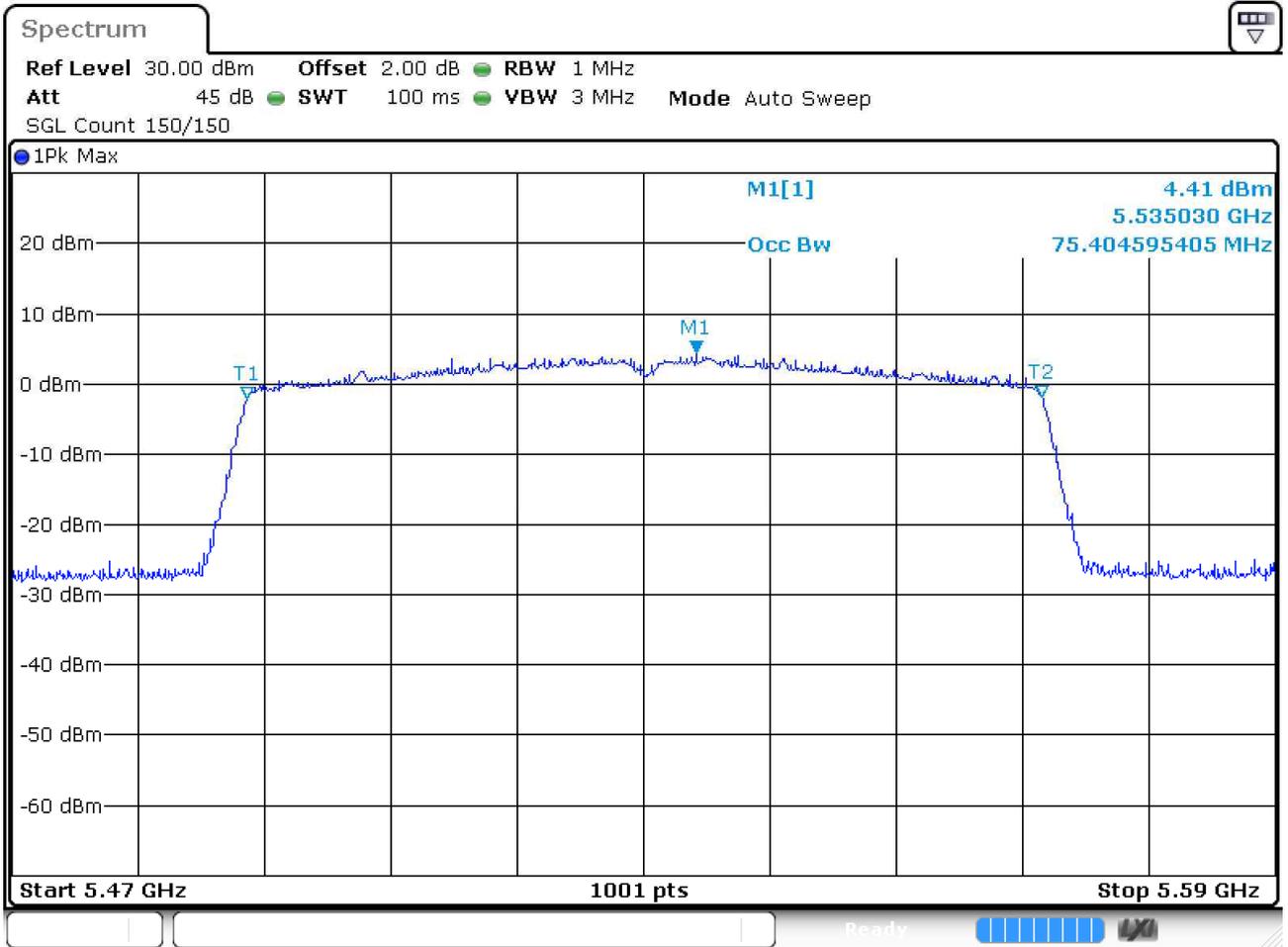


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4.7.2.57 11AC80_106 ANT 1



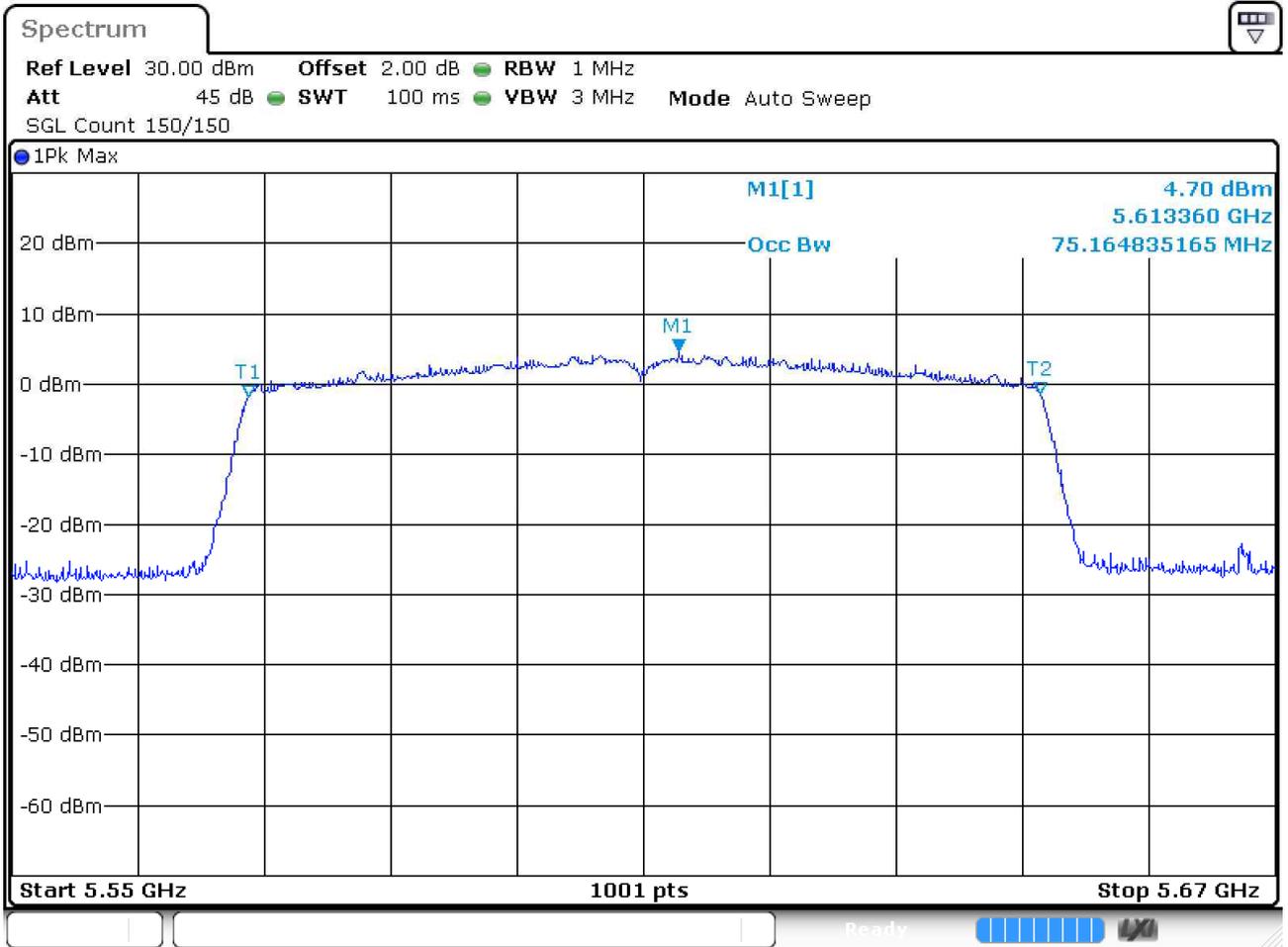
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4.7.2.58 11AC80_122 ANT 1



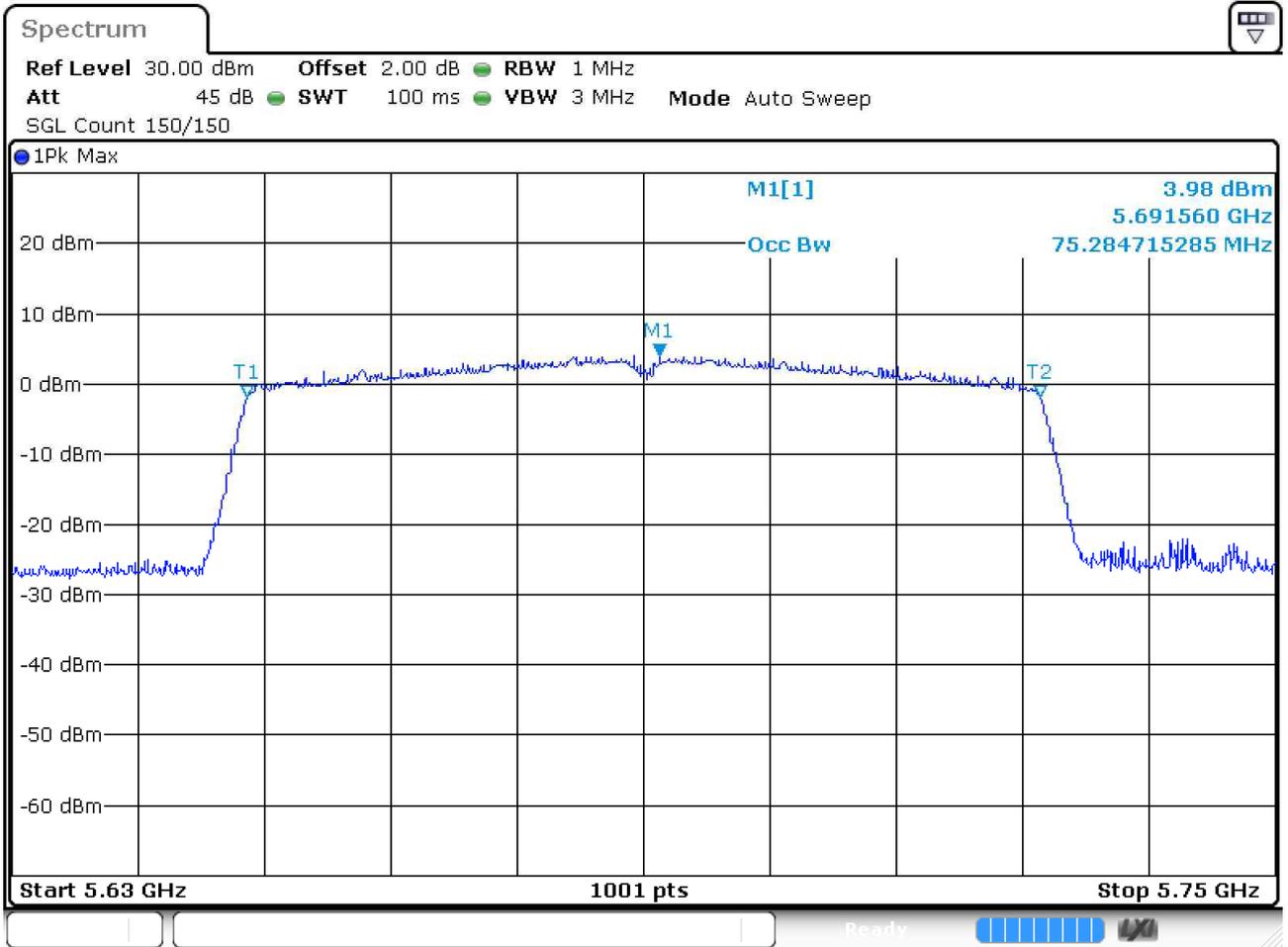
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4.7.2.59 11AC80_138 ANT 1



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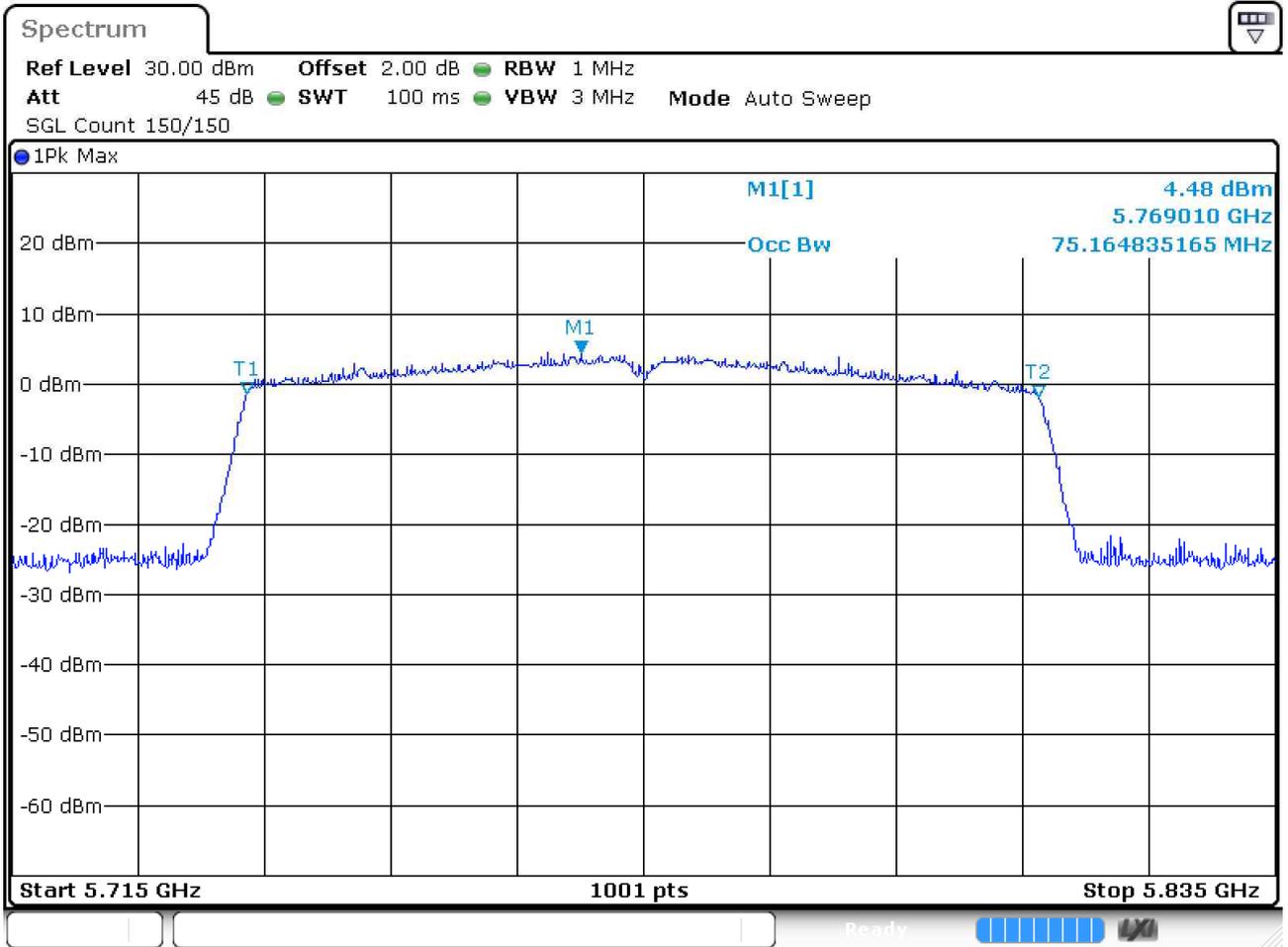


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4.7.2.60 11AC80_155 ANT 1



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Report No.: ZR/2020/7000607

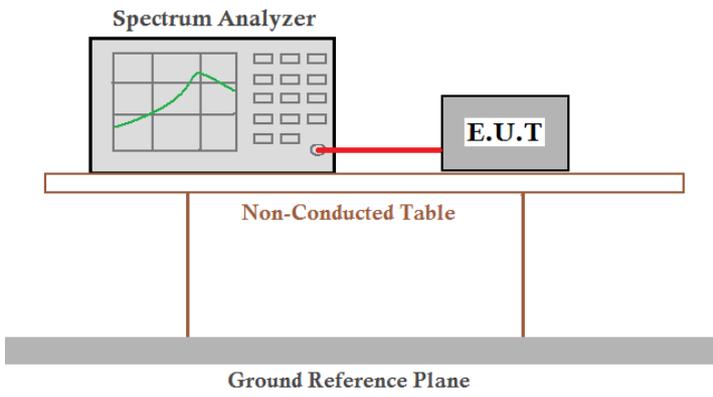
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4.8 Power Spectral Density

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 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.</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 Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm/500KHz]	Verdict
11A20	36	5180	ANT 1	2.83	PASS
	44	5220	ANT 1	3.83	PASS
	48	5240	ANT 1	3.86	PASS
	52	5260	ANT 1	4.17	PASS
	60	5300	ANT 1	4.45	PASS
	64	5320	ANT 1	4.18	PASS
	100	5500	ANT 1	4.98	PASS
	116	5580	ANT 1	4.53	PASS
	140	5700	ANT 1	4.61	PASS
	149	5745	ANT 1	1.96	PASS
	157	5785	ANT 1	1.98	PASS
	165	5825	ANT 1	2.16	PASS
11N20	36	5180	ANT 1	2.07	PASS
	44	5220	ANT 1	3	PASS
	48	5240	ANT 1	3.24	PASS
	52	5260	ANT 1	3.33	PASS
	60	5300	ANT 1	3.44	PASS
	64	5320	ANT 1	3.46	PASS
	100	5500	ANT 1	4.11	PASS
	116	5580	ANT 1	3.61	PASS
	140	5700	ANT 1	4.15	PASS
	149	5745	ANT 1	1.21	PASS
	157	5785	ANT 1	1.28	PASS
	165	5825	ANT 1	1.3	PASS
11N40	38	5190	ANT 1	-2.59	PASS
	46	5230	ANT 1	-1.85	PASS
	54	5270	ANT 1	-1.57	PASS
	62	5310	ANT 1	-1.59	PASS
	102	5510	ANT 1	-0.77	PASS
	110	5550	ANT 1	-0.91	PASS
	134	5670	ANT 1	-0.88	PASS



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Shenzhen Branch**

Report No.: ZR/2020/7000607

Page: 154 of 443

	151	5755	ANT 1	-3.7	PASS	
	159	5795	ANT 1	-3.66	PASS	
11AC20	36	5180	ANT 1	-0.11	PASS	
	44	5220	ANT 1	0.88	PASS	
	48	5240	ANT 1	1.2	PASS	
	52	5260	ANT 1	1.37	PASS	
	60	5300	ANT 1	1.5	PASS	
	64	5320	ANT 1	1.4	PASS	
	100	5500	ANT 1	2.16	PASS	
	116	5580	ANT 1	1.94	PASS	
	140	5700	ANT 1	2.05	PASS	
	149	5745	ANT 1	-0.8	PASS	
	157	5745	ANT 1	-0.79	PASS	
	165	5825	ANT 1	-0.74	PASS	
	11AC40	38	5190	ANT 1	-3.73	PASS
		46	5230	ANT 1	-2.83	PASS
54		5270	ANT 1	-2.45	PASS	
62		5310	ANT 1	-2.49	PASS	
102		5510	ANT 1	-1.91	PASS	
110		5550	ANT 1	-1.98	PASS	
134		5670	ANT 1	-1.87	PASS	
151		5755	ANT 1	-4.81	PASS	
159		5795	ANT 1	-4.8	PASS	
11AC80	42	5210	ANT 1	-6.77	PASS	
	58	5290	ANT 1	-5.91	PASS	
	106	5530	ANT 1	-5.35	PASS	
	122	5610	ANT 1	-5.13	PASS	
	138	5690	ANT 1	-5.49	PASS	
	155	5775	ANT 1	-7.93	PASS	



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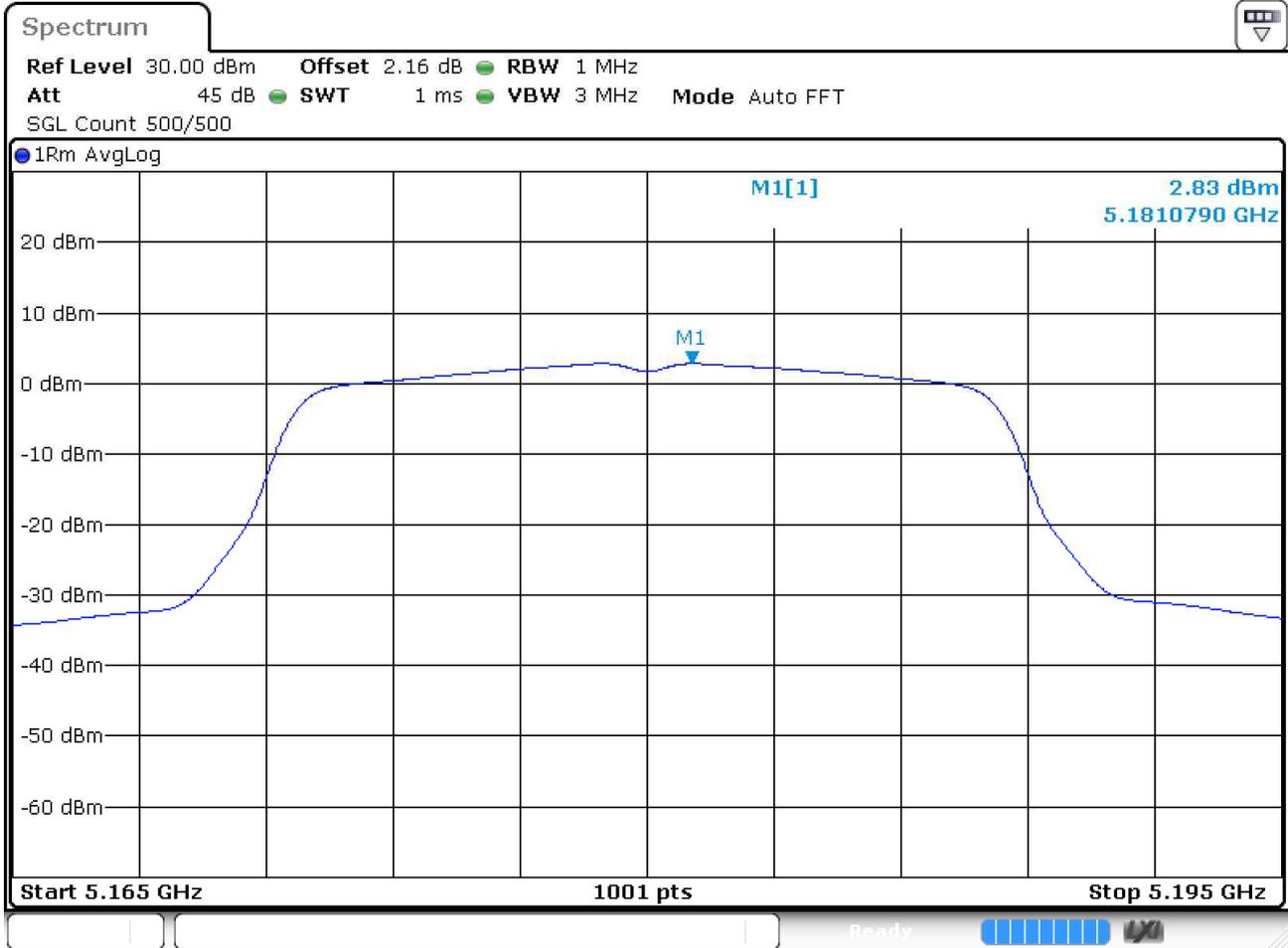
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4.8.2 Test plots For Power Density

4.8.2.1 11A20_36 ANT 1



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4.8.2.2 11A20_44 ANT 1



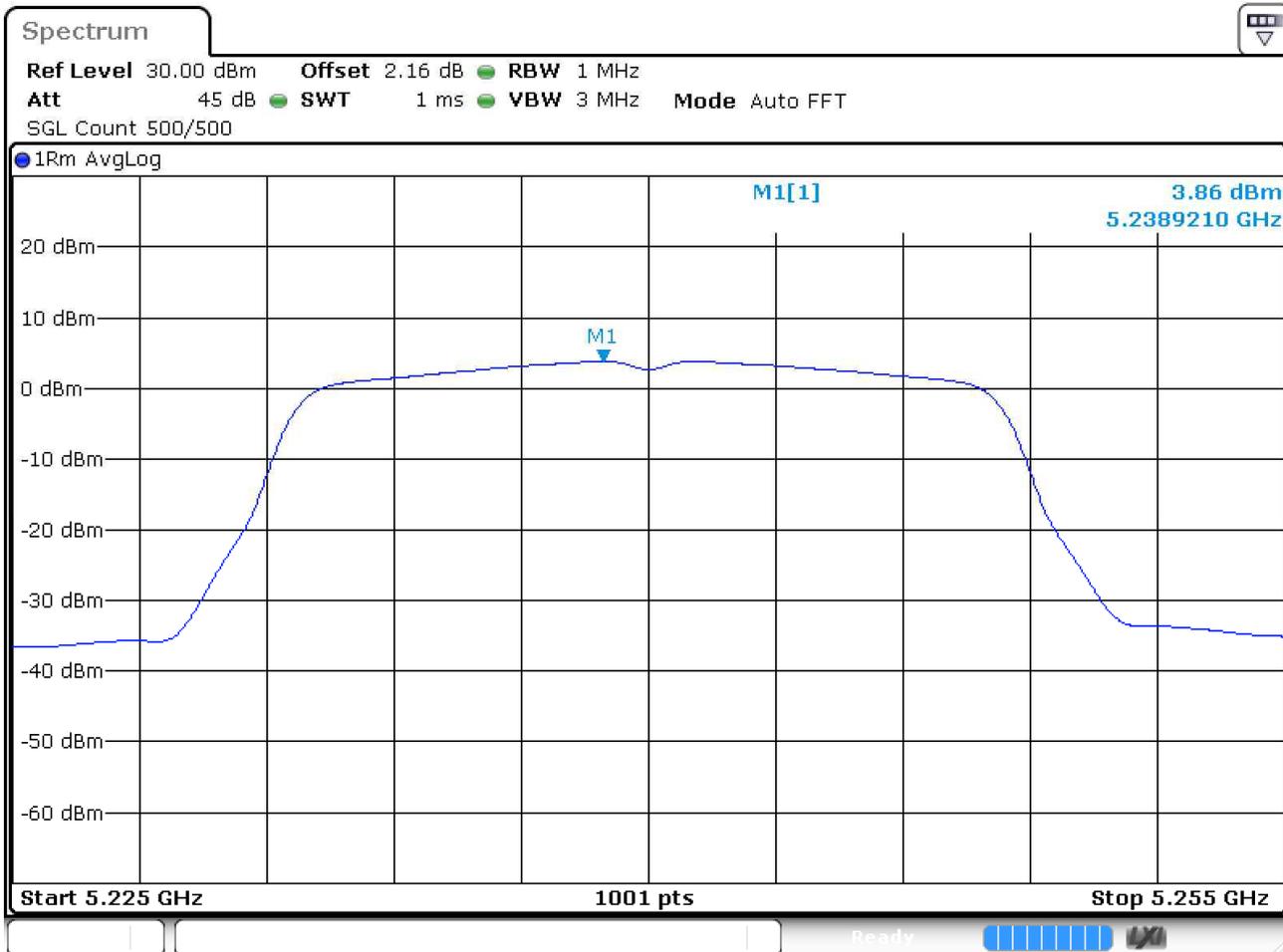
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4.8.2.3 11A20_48 ANT 1



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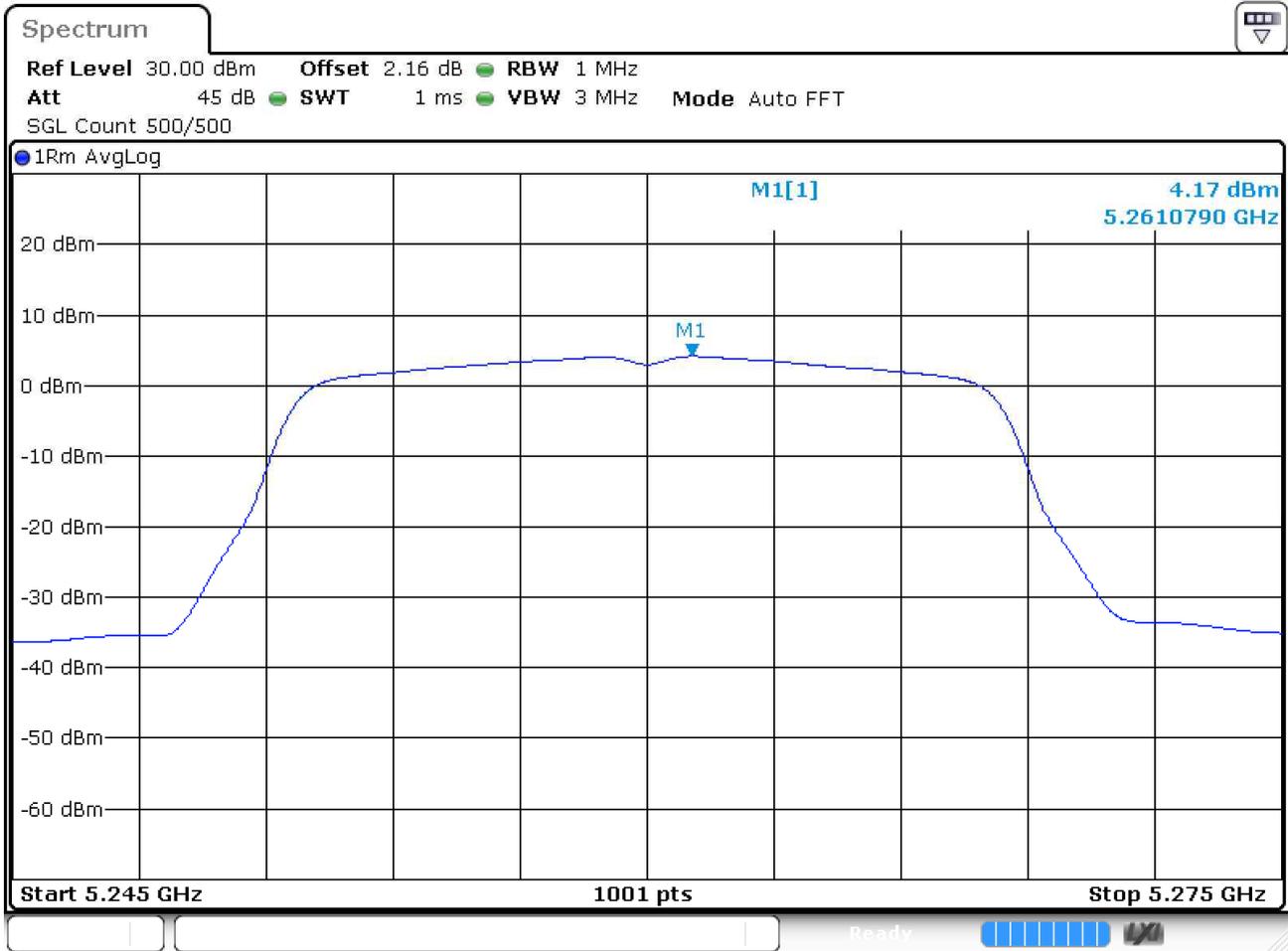


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4.8.2.4 11A20_52 ANT 1



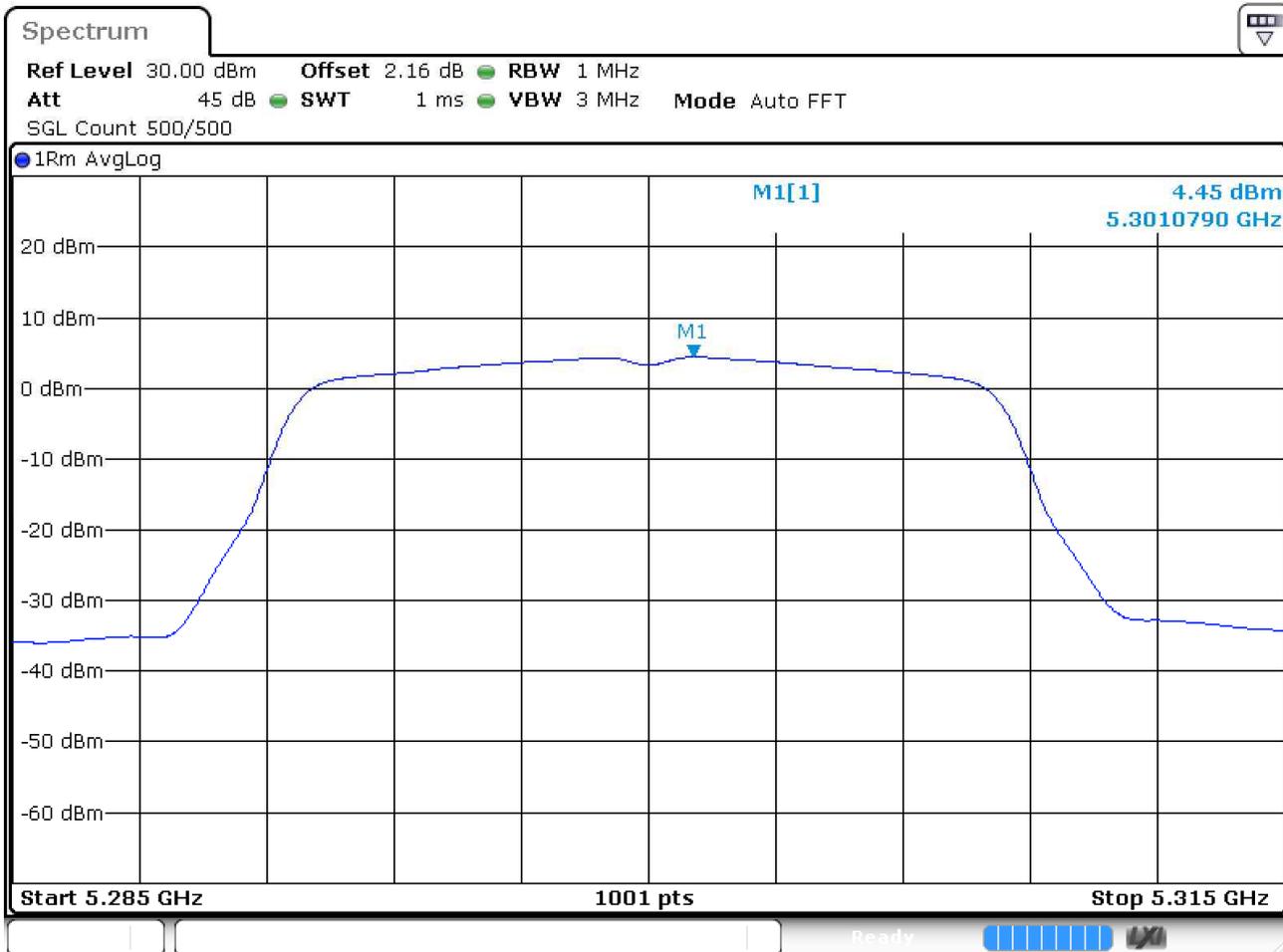
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4.8.2.5 11A20_60 ANT 1



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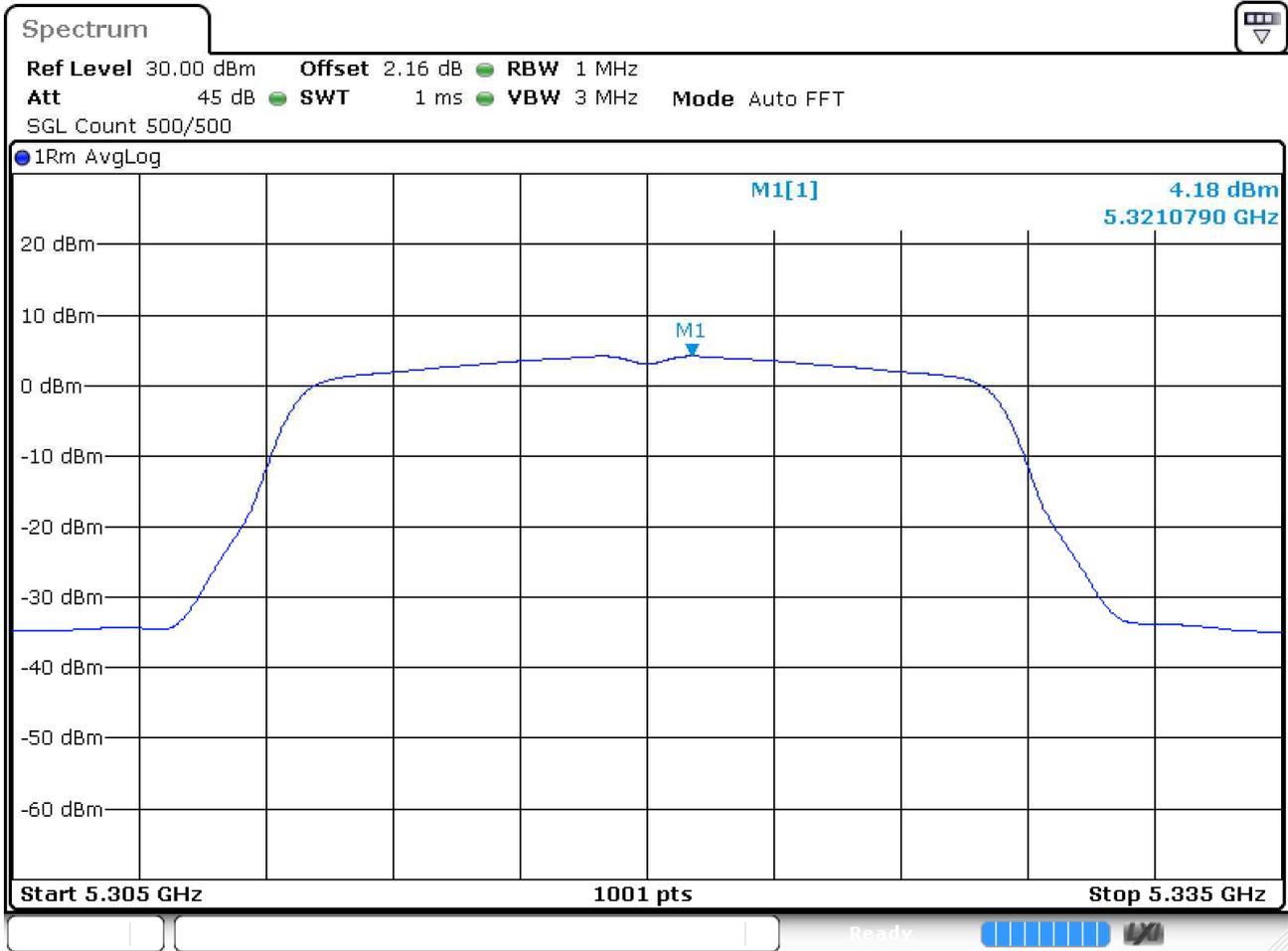


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4.8.2.6 11A20_64 ANT 1



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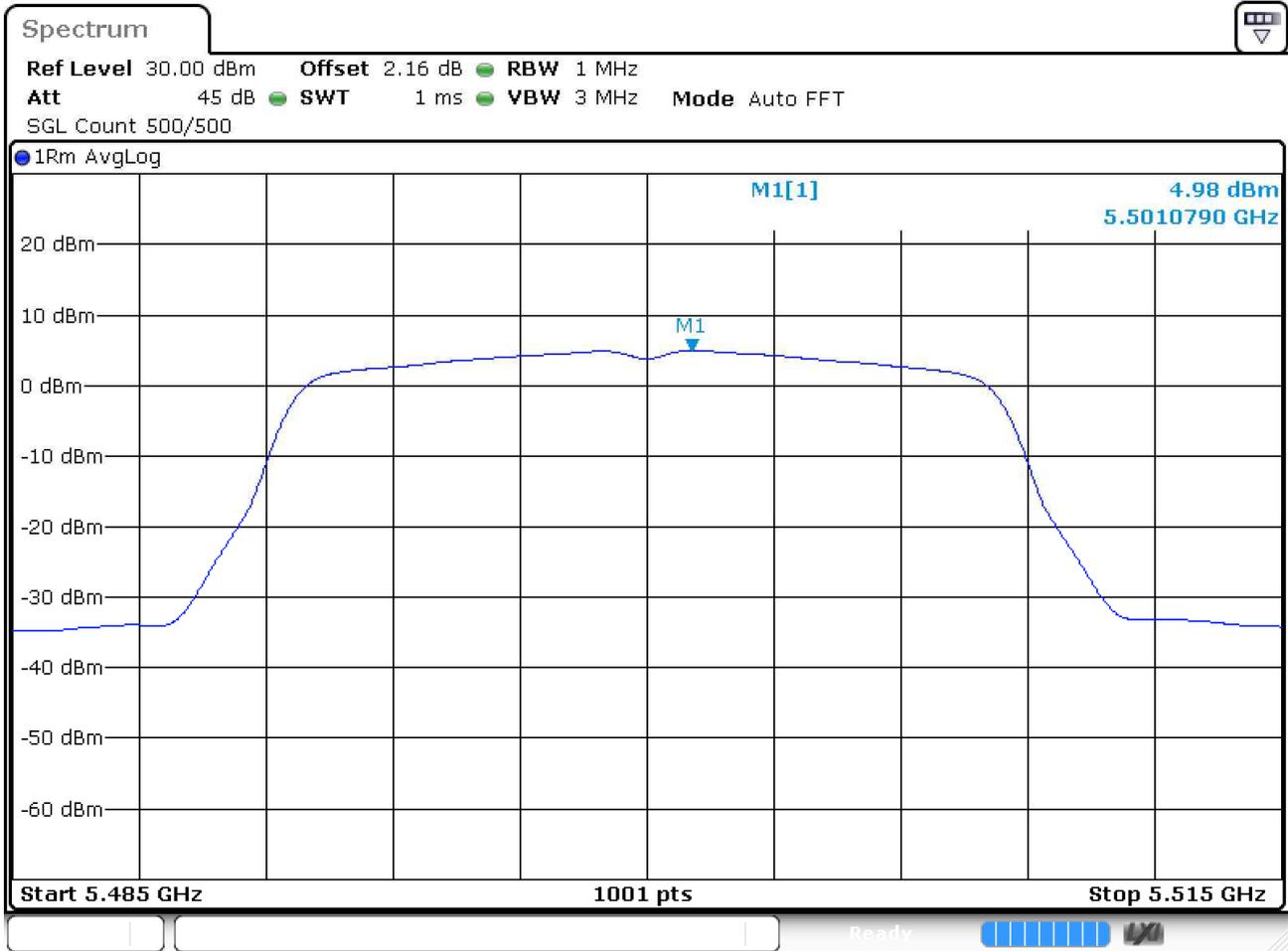


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4.8.2.7 11A20_100 ANT 1



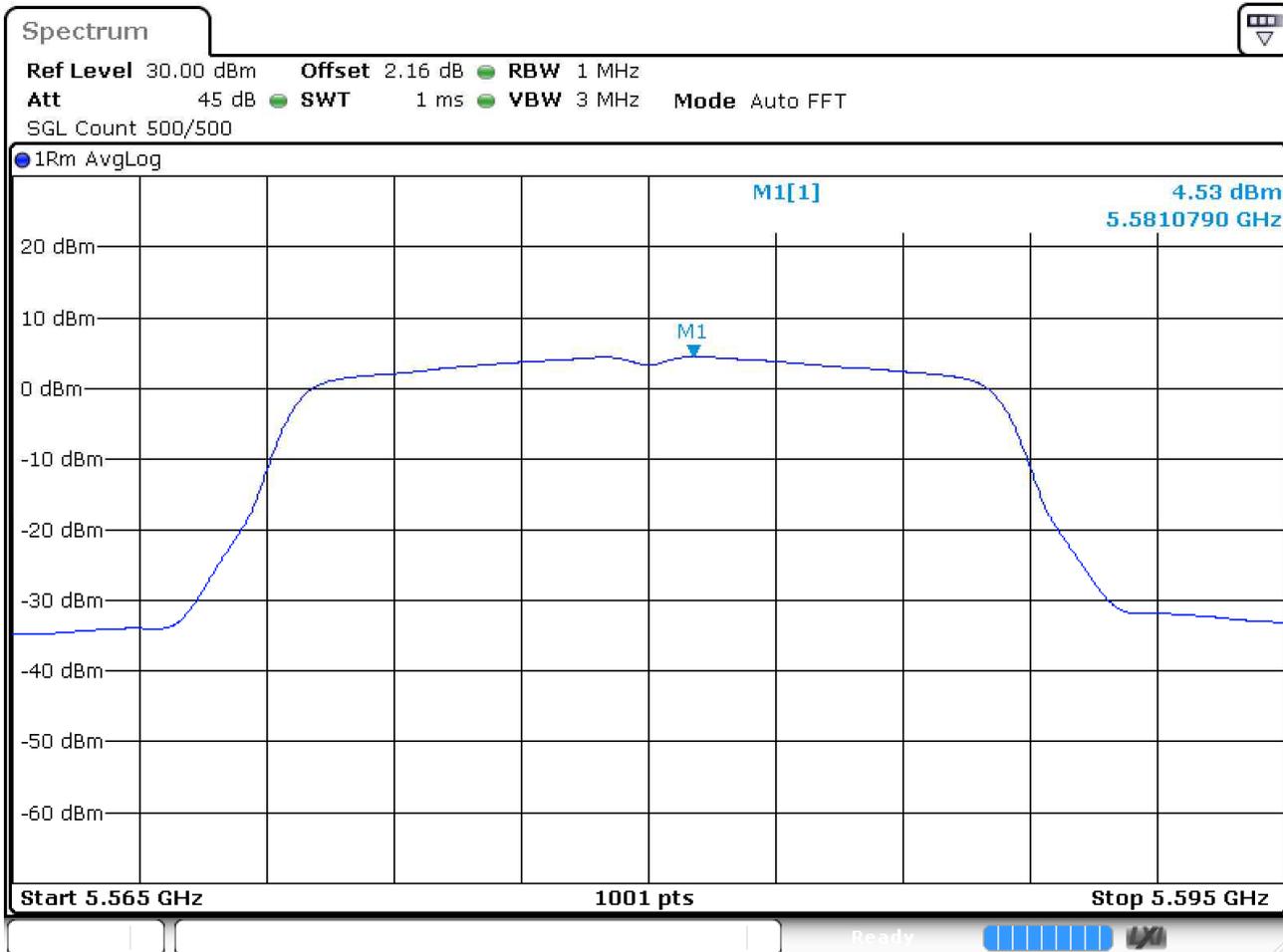
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4.8.2.8 11A20_116 ANT 1



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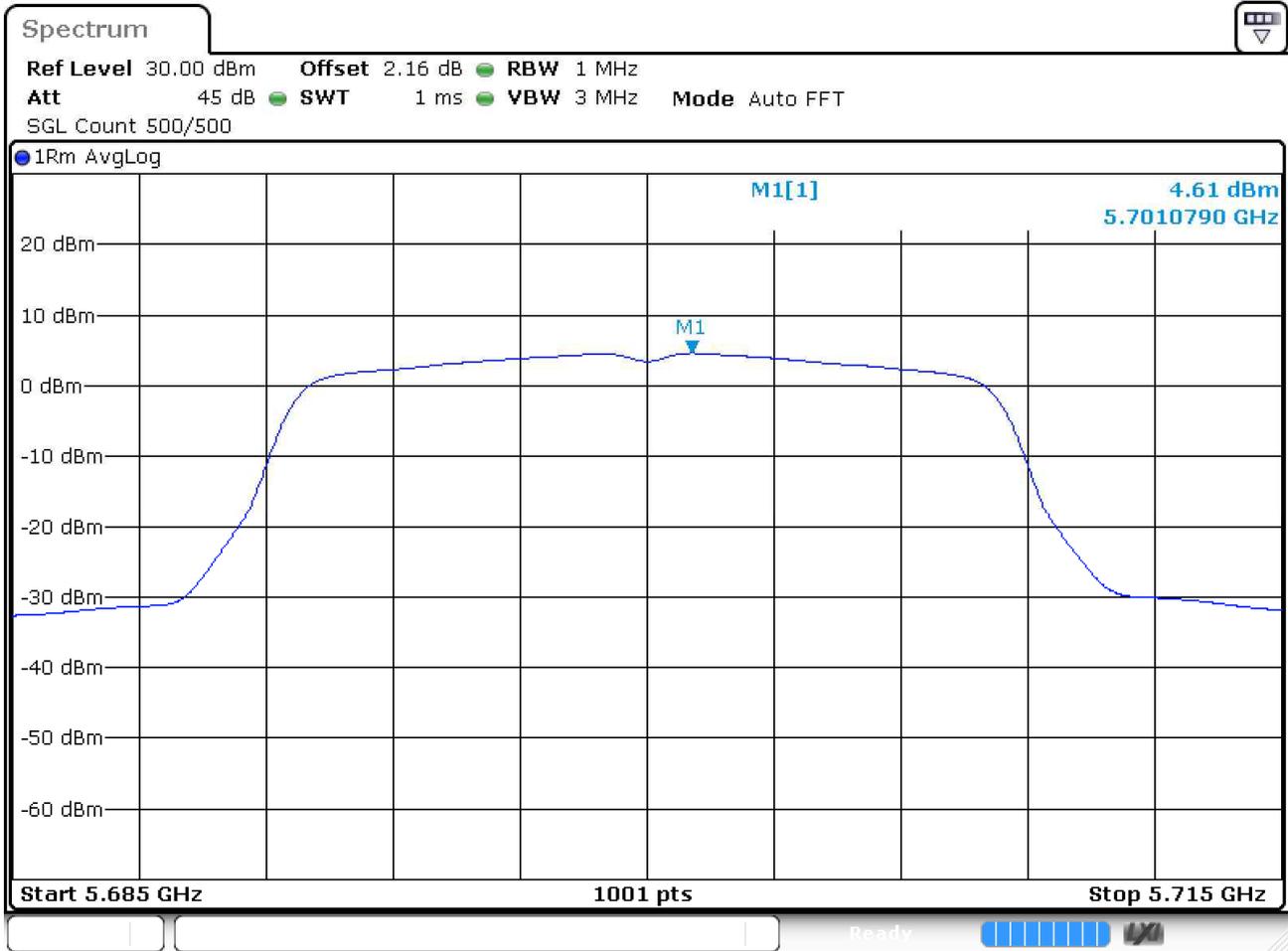


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4.8.2.9 11A20_140 ANT 1



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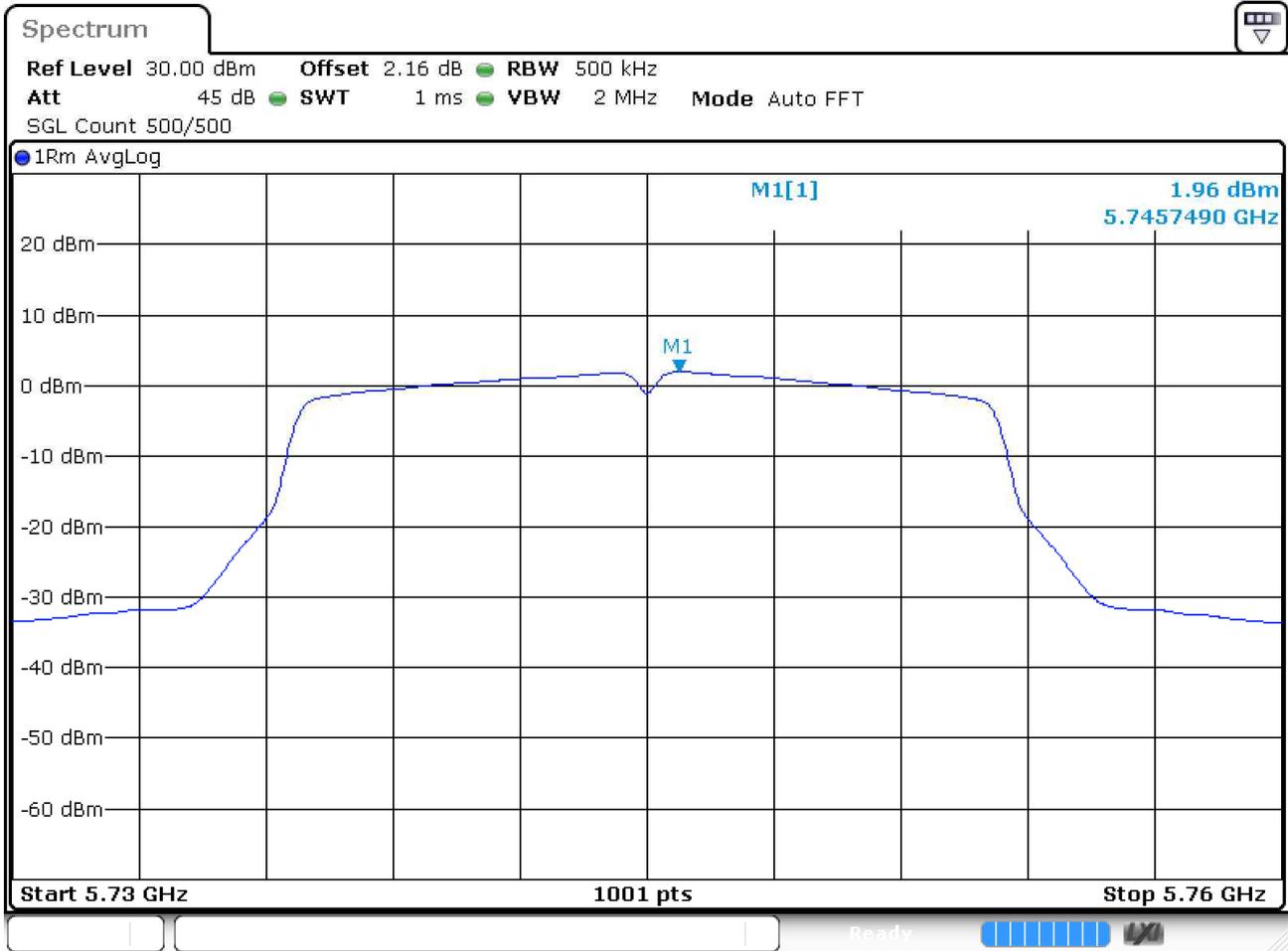


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4.8.2.10 11A20_149 ANT 1

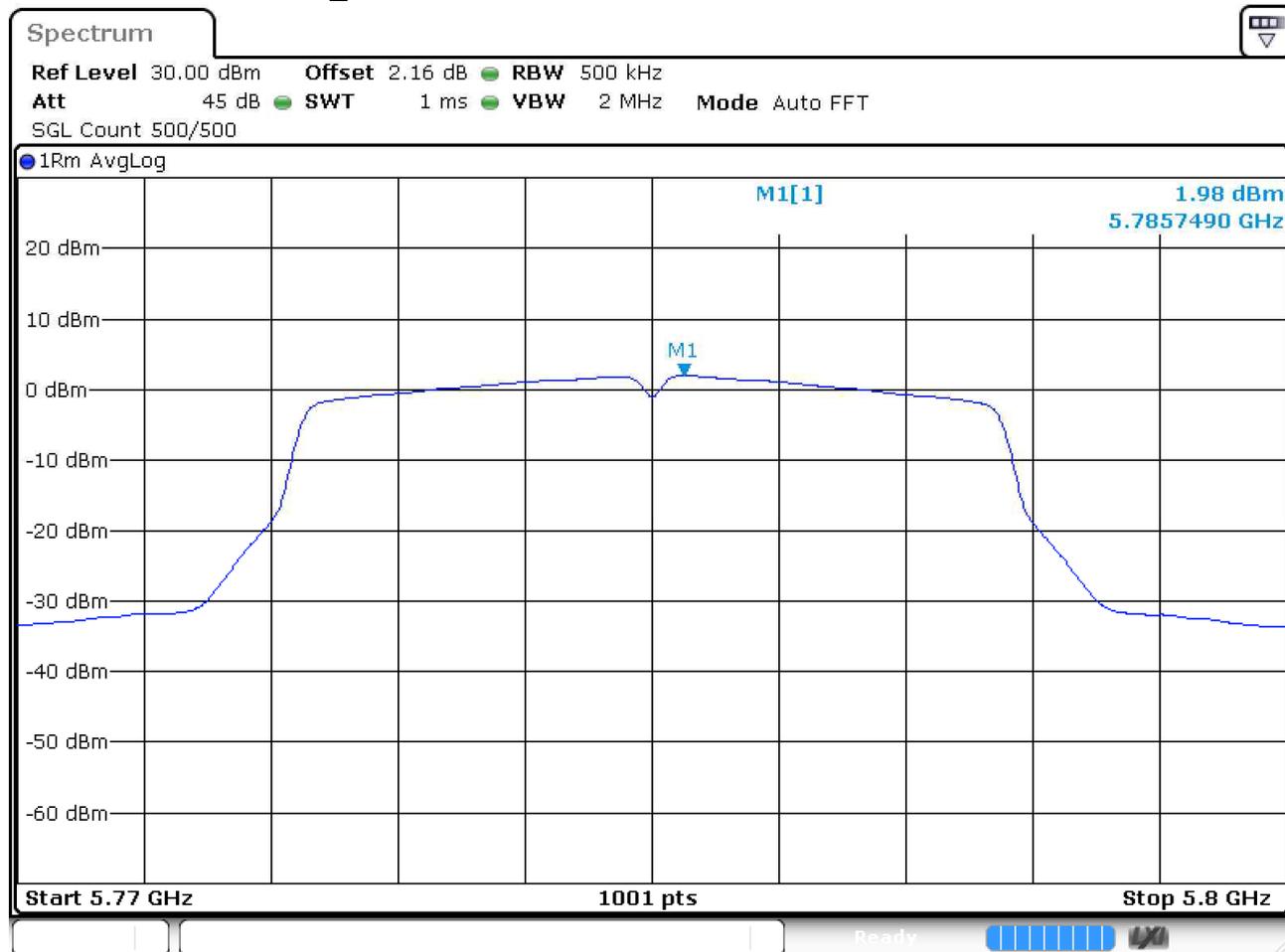


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4.8.2.11 11A20_157 ANT 1



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