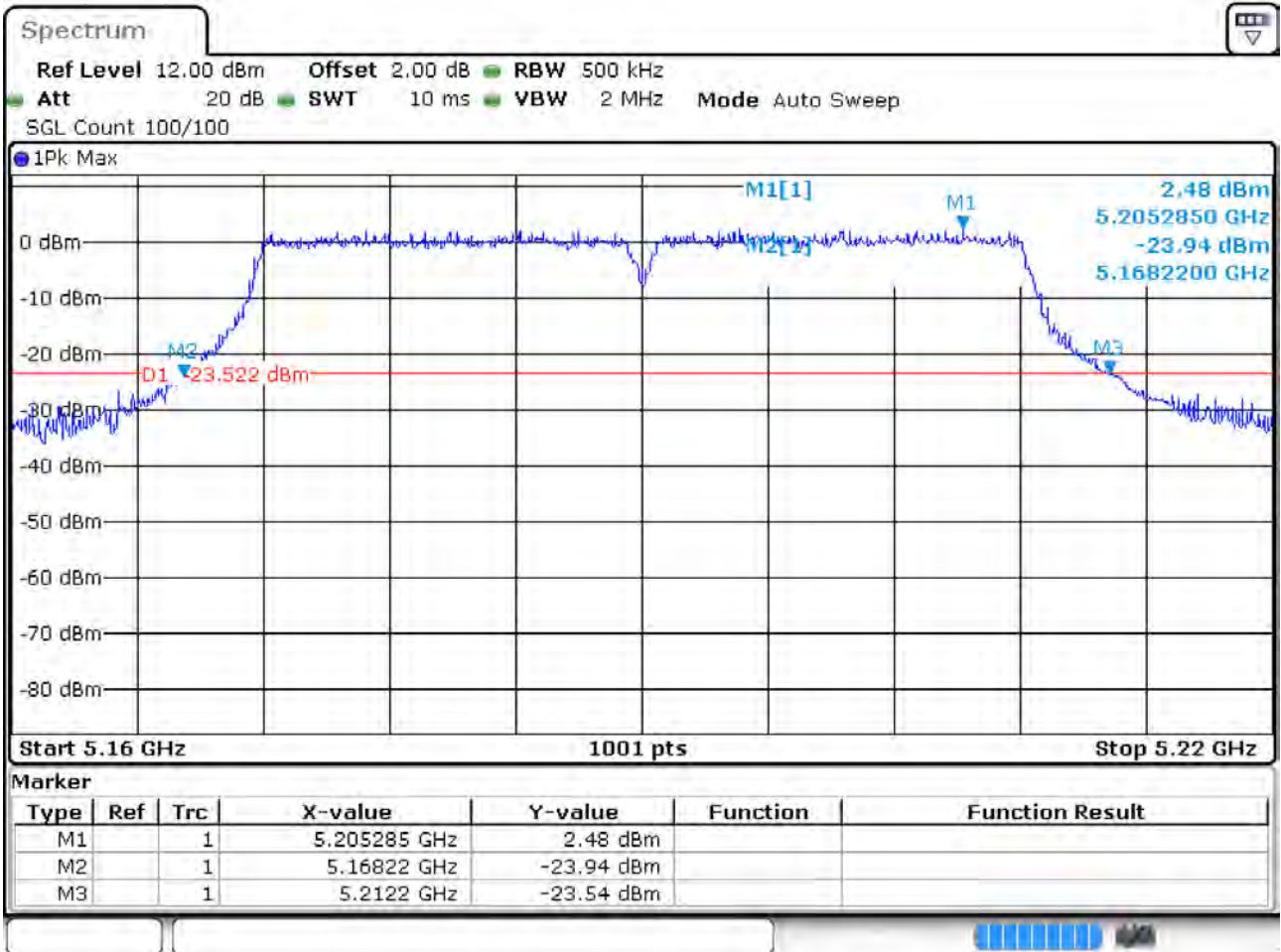


4.5.1.97 11AC40MIMO_38 ANT 1

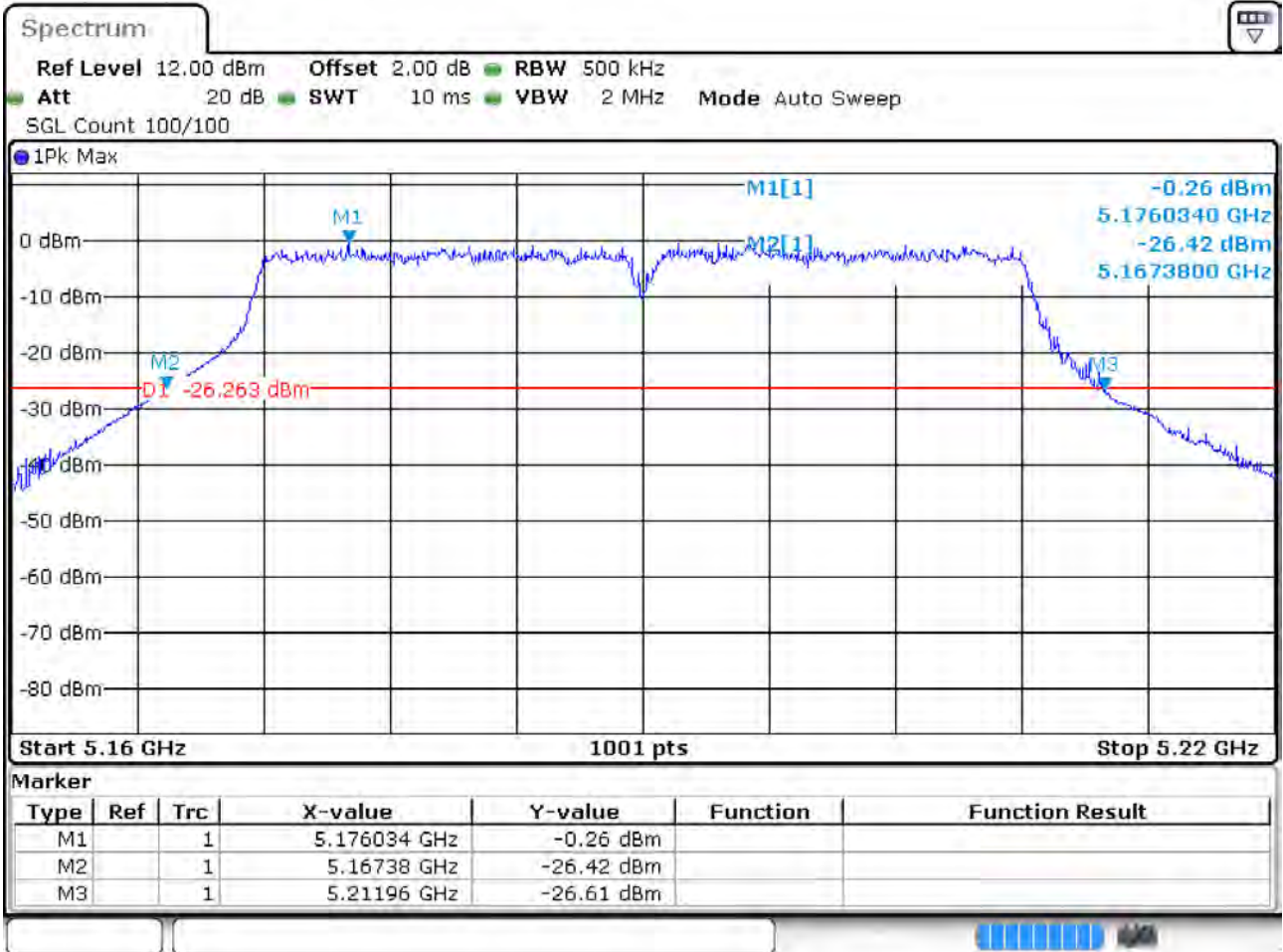


Date: 30 JUL 2019 20:36:43



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4.5.1.98 11AC40MIMO_38 ANT 2

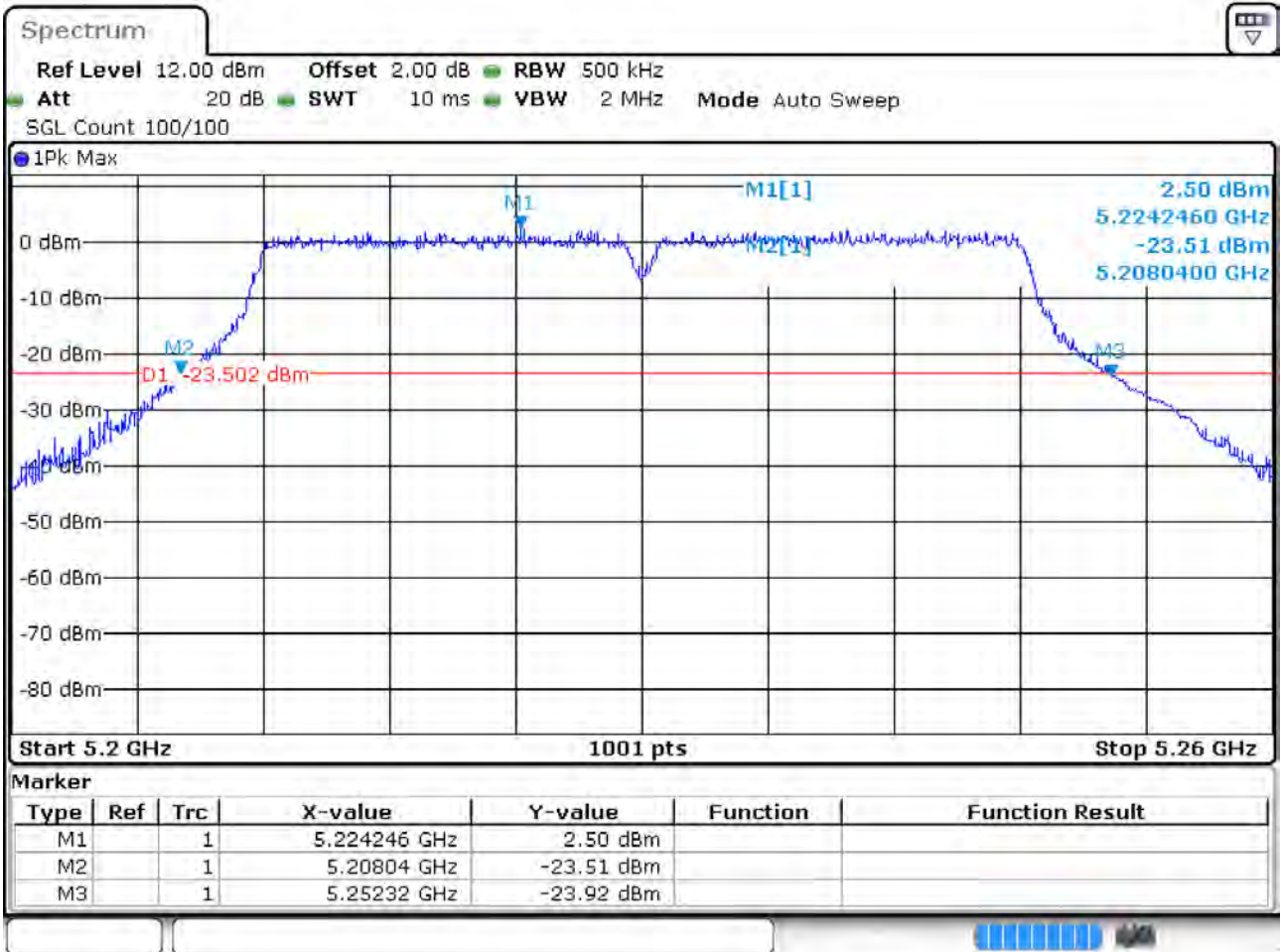


Date: 30 JUL 2019 20:09:56



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4.5.1.99 11AC40MIMO_46 ANT 1



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4.5.1.100 11AC40MIMO_46 ANT 2



Date: 30 JUL 2019 20:12:07



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4.5.1.101 11AC40MIMO_54 ANT 1

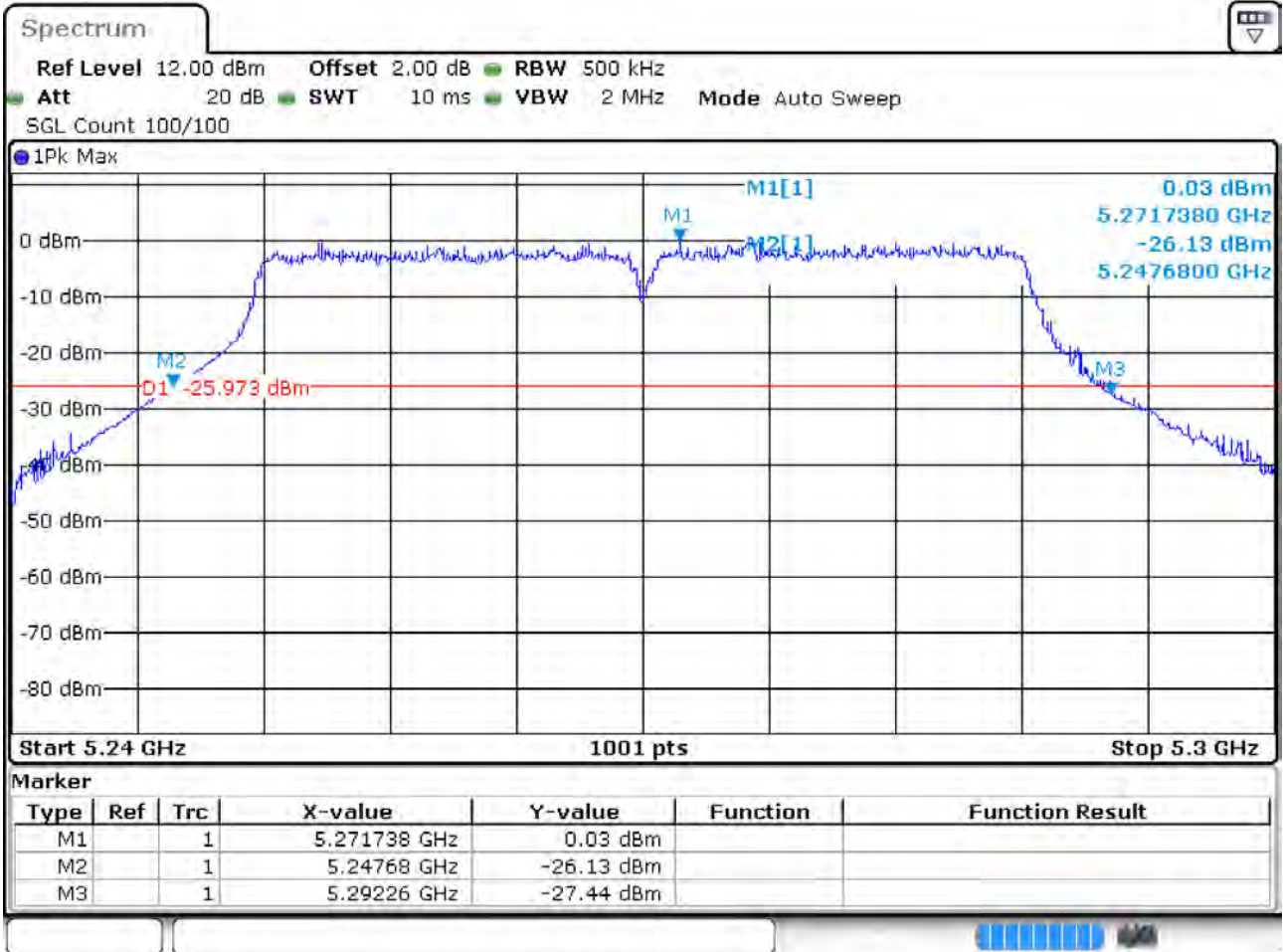


Date: 30 JUL 2019 20:41:45



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4.5.1.102 11AC40MIMO_54 ANT 2

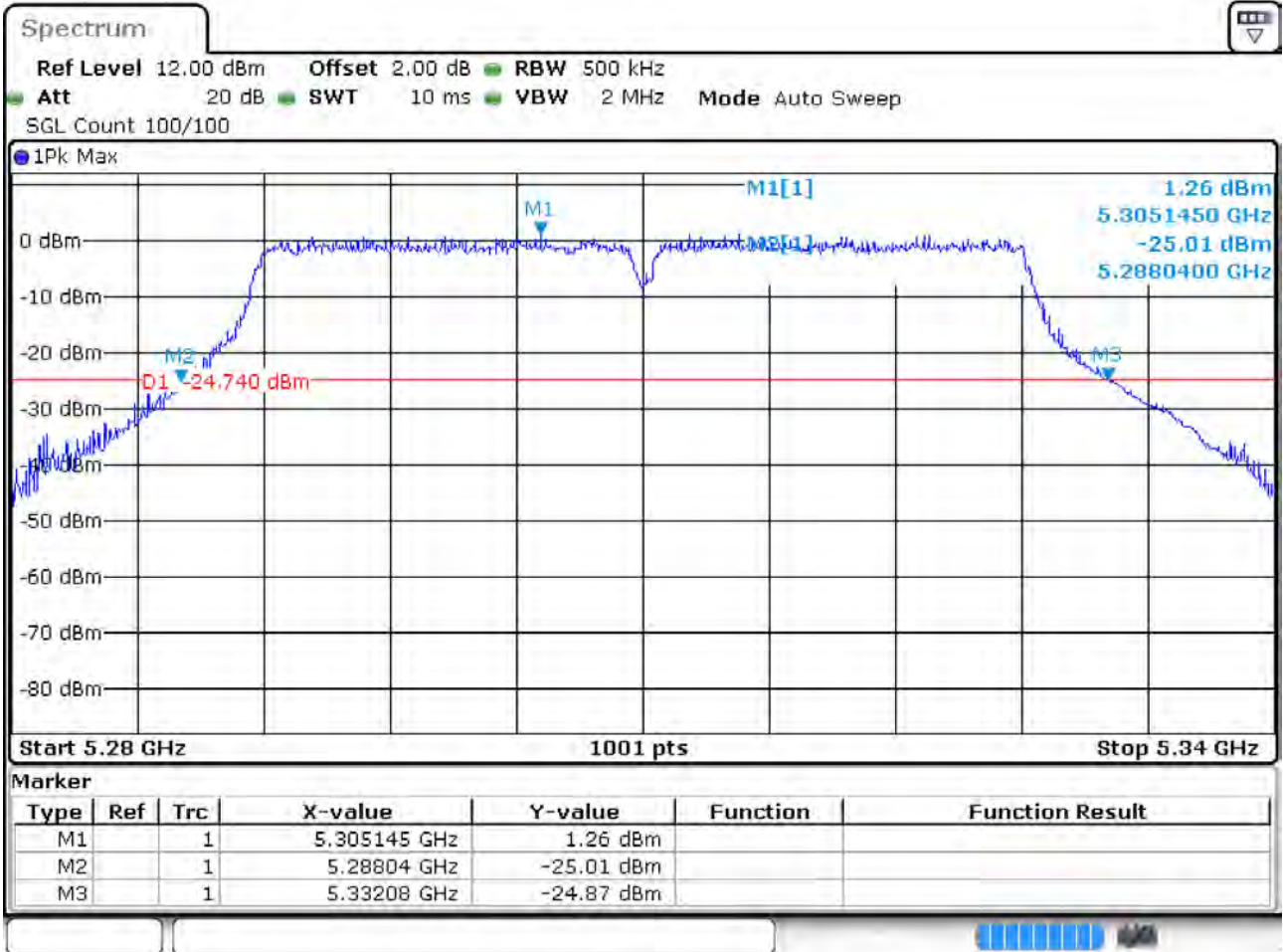


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4.5.1.103 11AC40MIMO_62 ANT 1

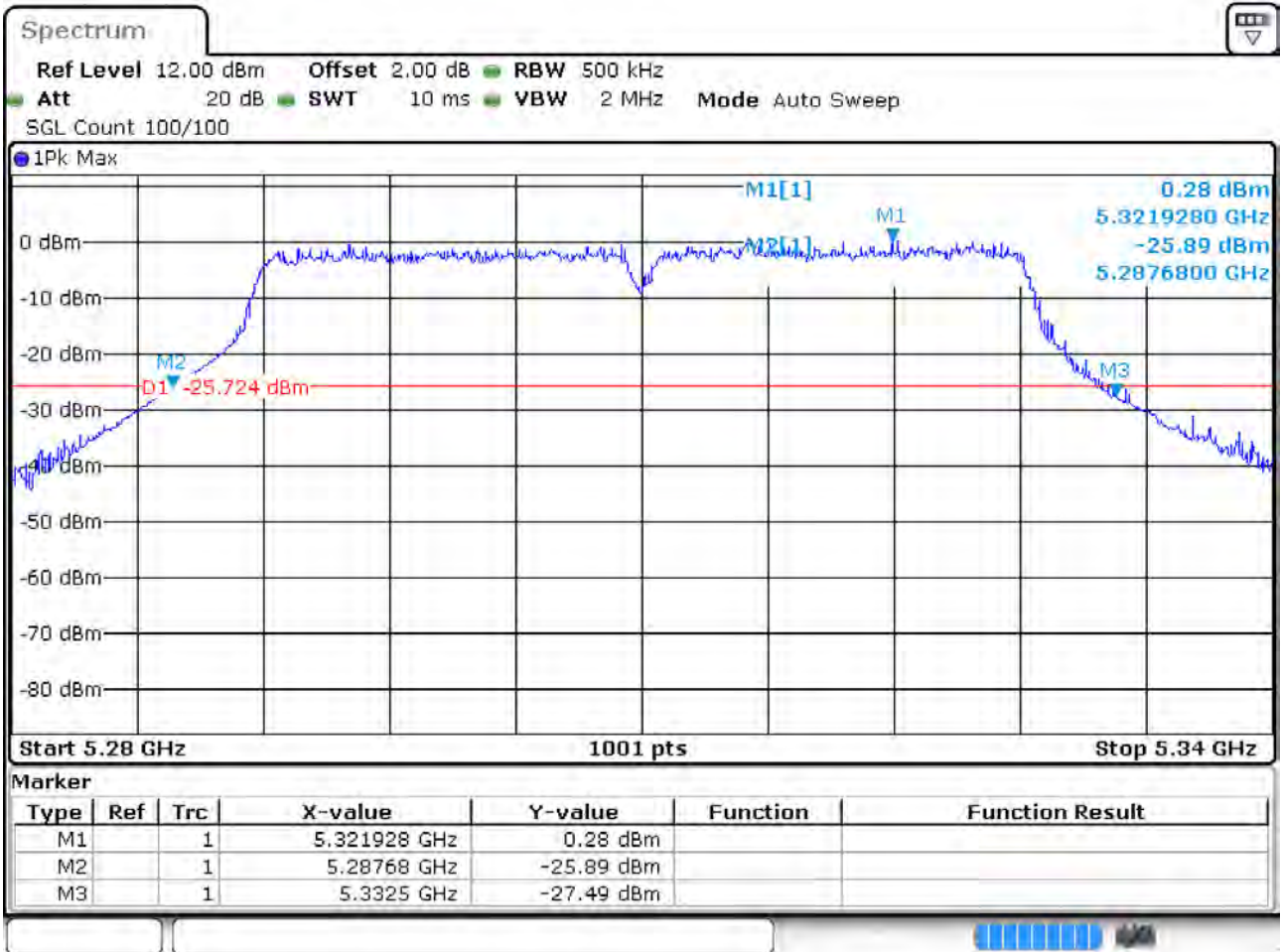


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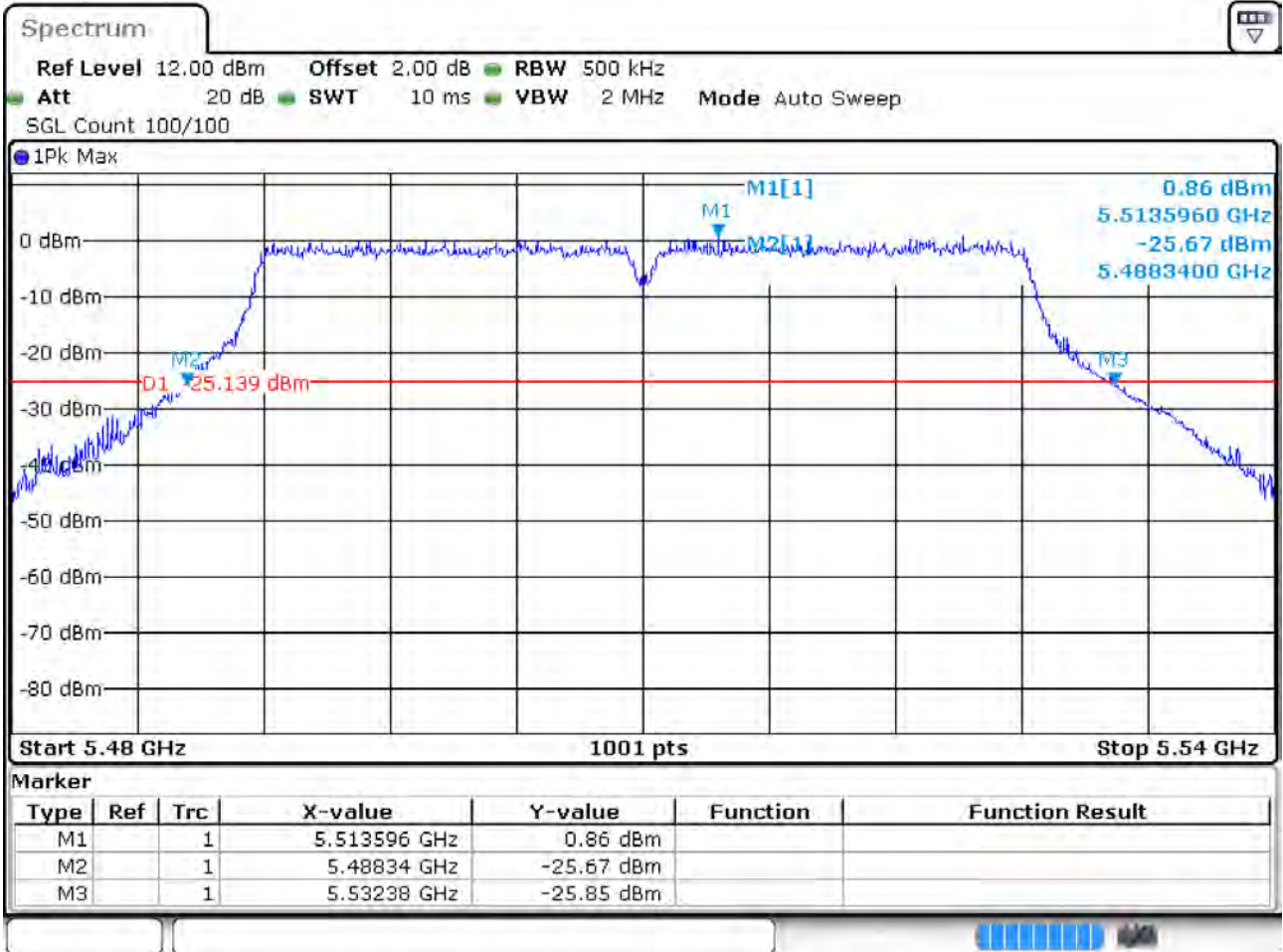
4.5.1.104 11AC40MIMO_62 ANT 2



Date: 30 JUL 2019 20:16:41



4.5.1.105 11AC40MIMO_102 ANT 1

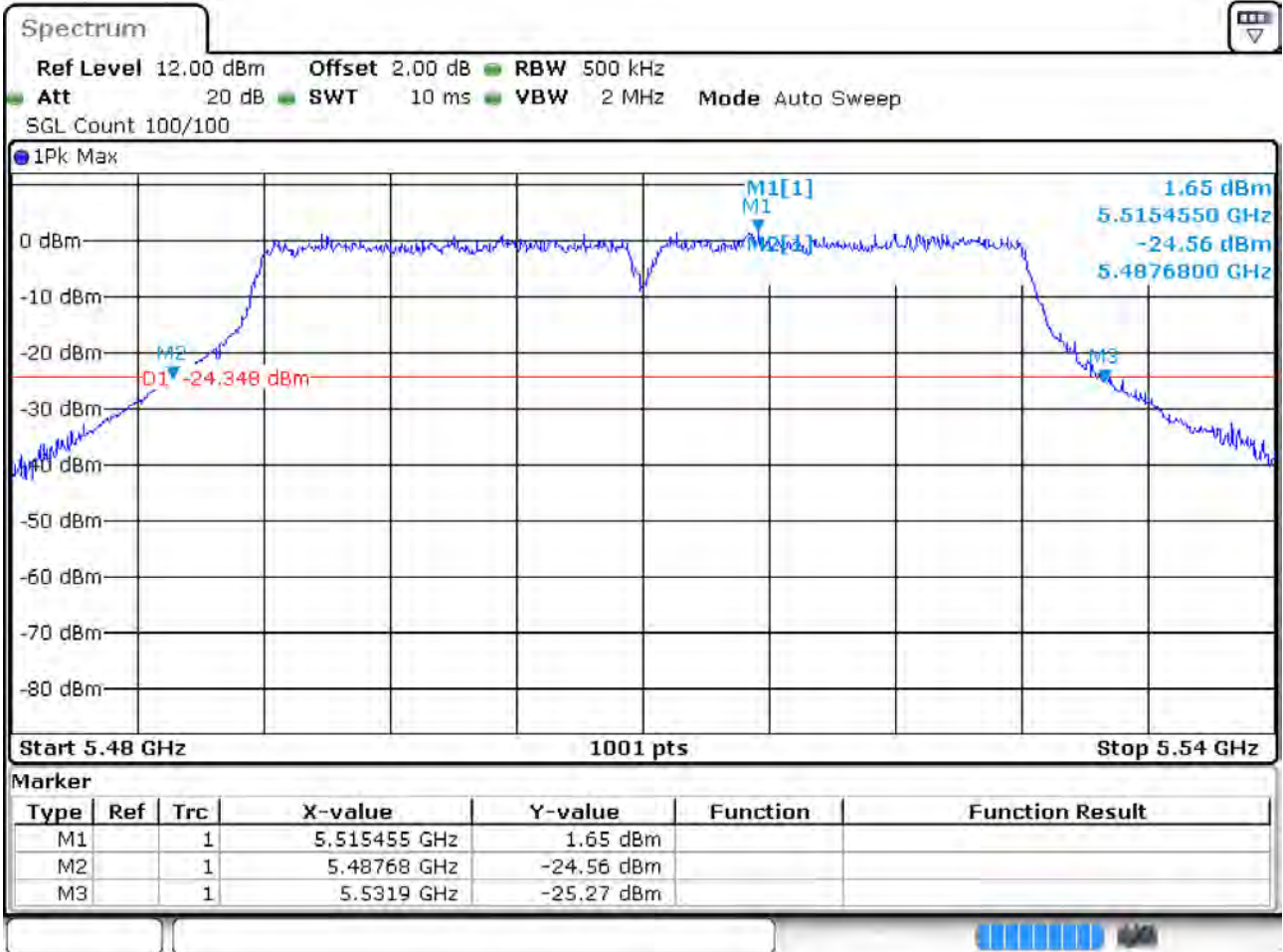


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4.5.1.106 11AC40MIMO_102 ANT 2



Date: 30 JUL 2019 20:18:52

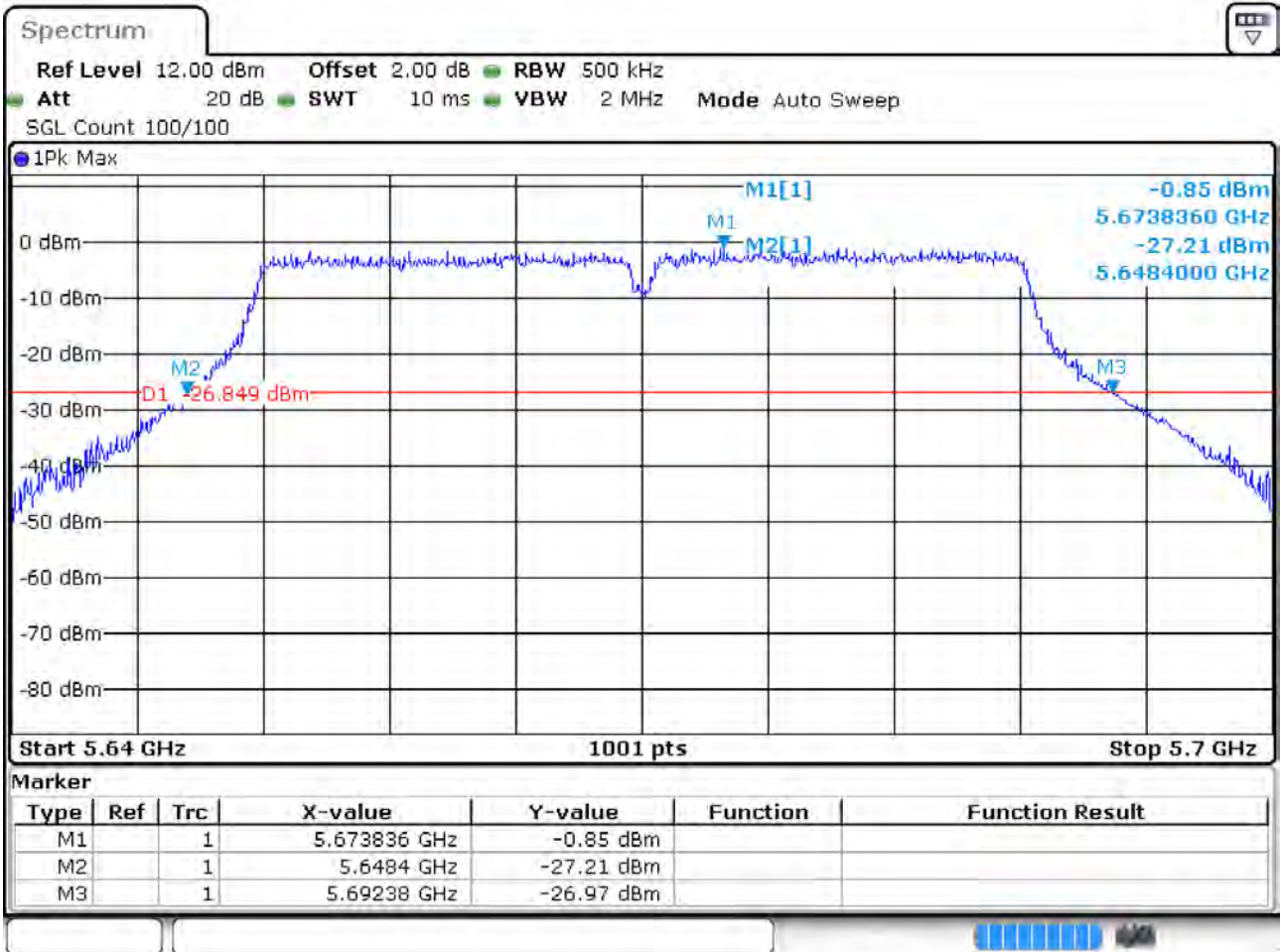


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4.5.1.107 11AC40MIMO_134 ANT 1

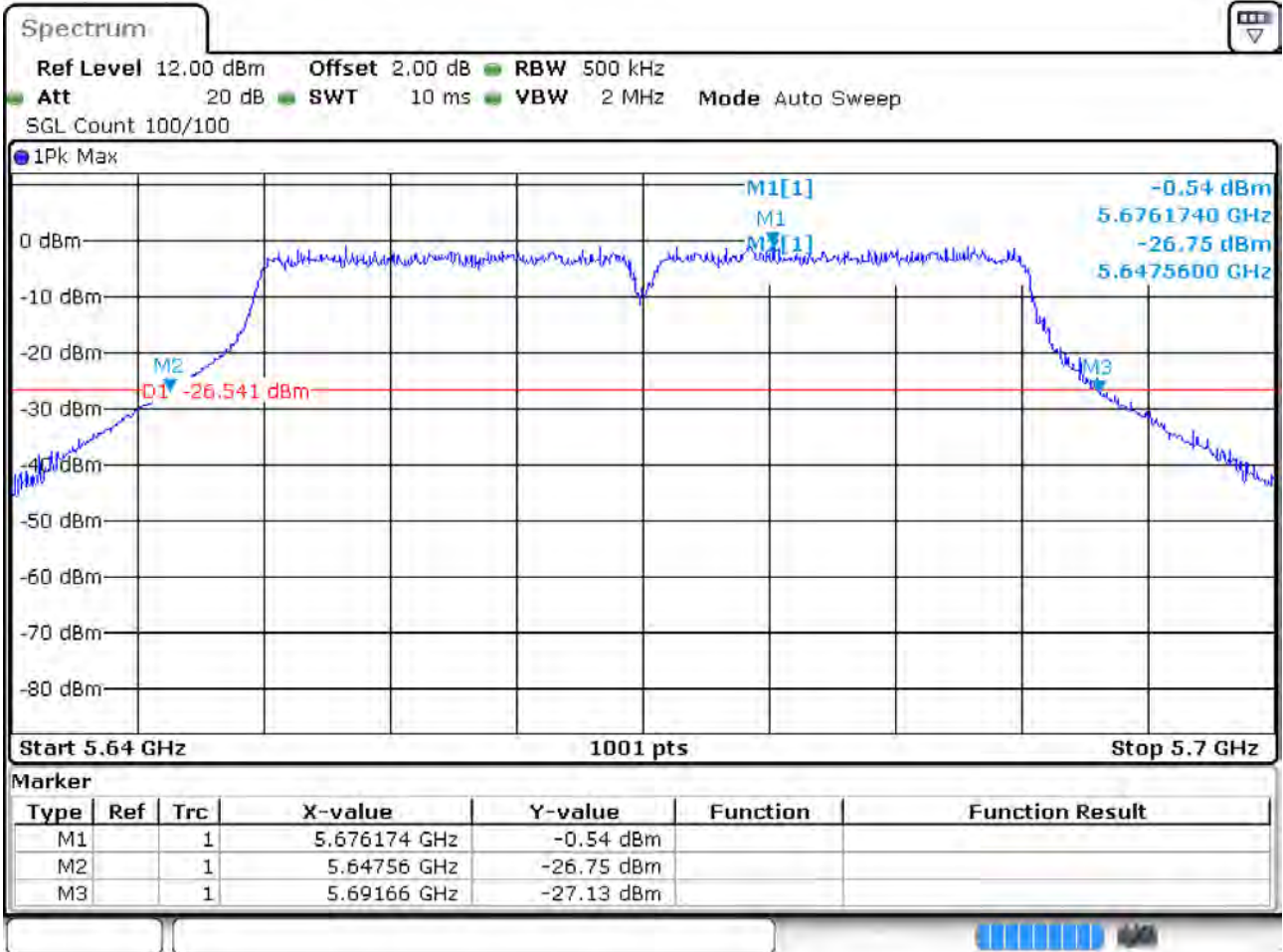


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4.5.1.108 11AC40MIMO_134 ANT 2

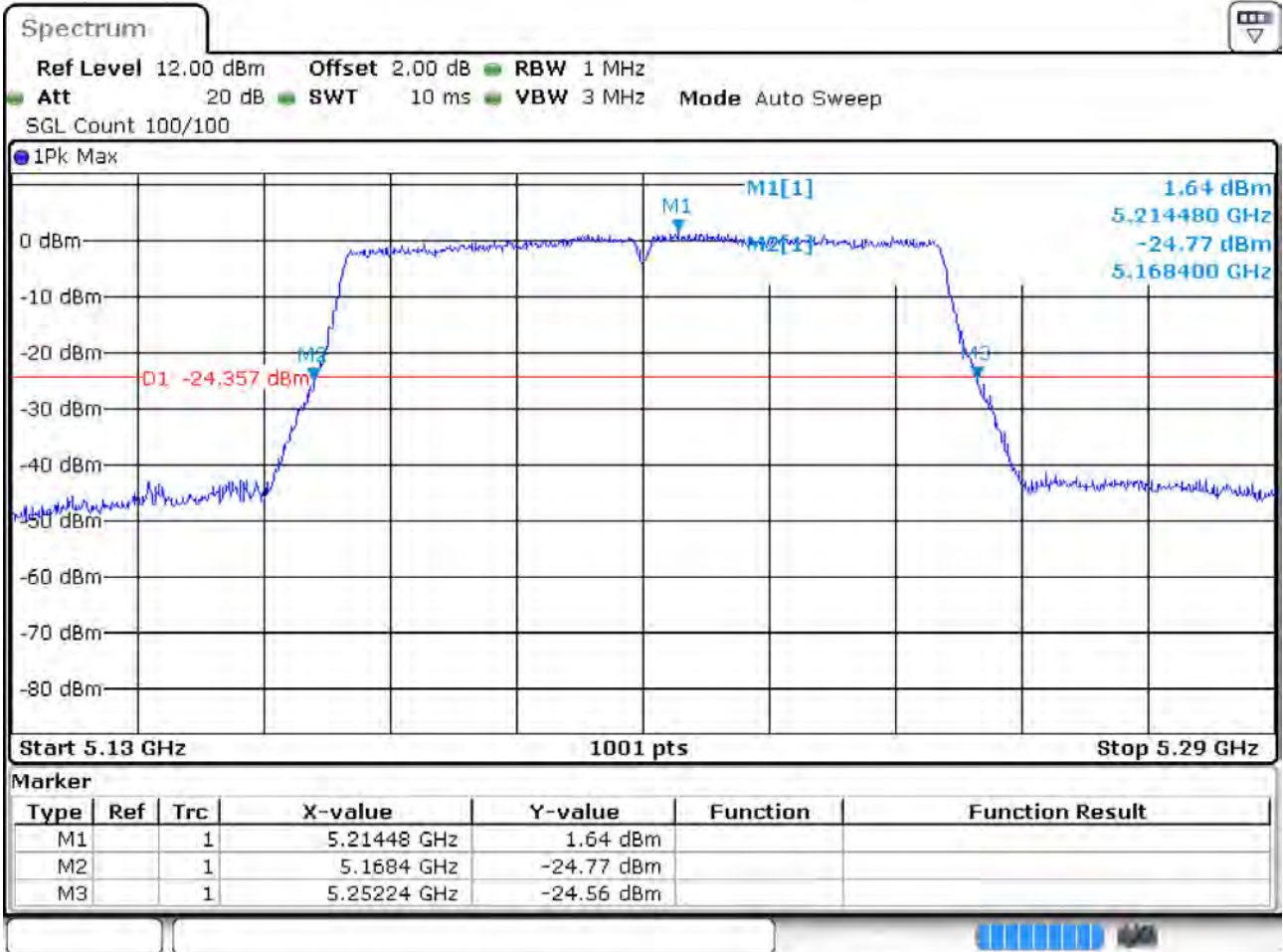


Date: 30 JUL 2019 20:20:36



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4.5.1.109 11AC80_42 ANT 1



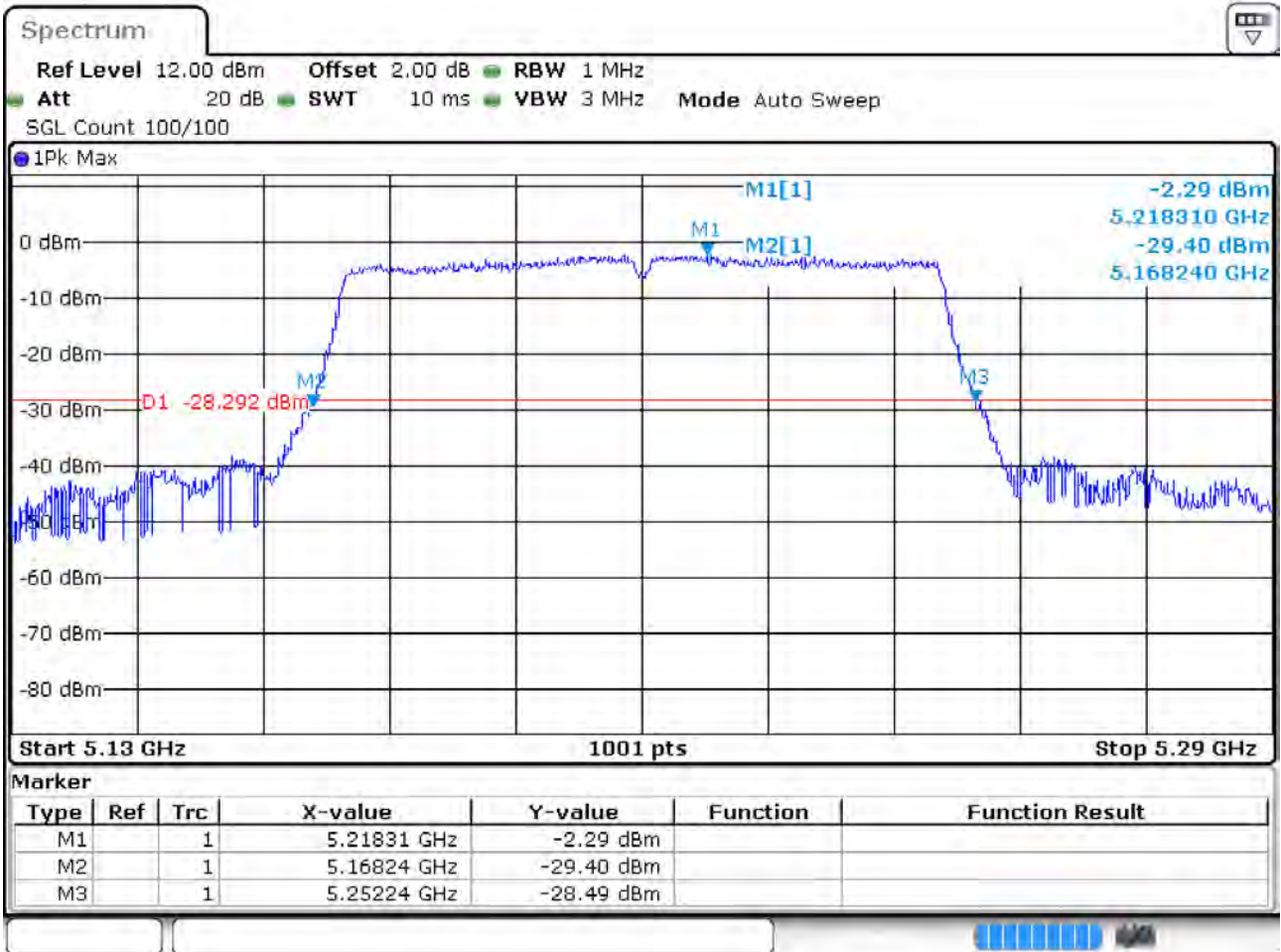
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4.5.1.110 11AC80_42 ANT 2



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4.5.1.111 11AC80_58 ANT 1



Date: 30 JUL 2019 04:02:45

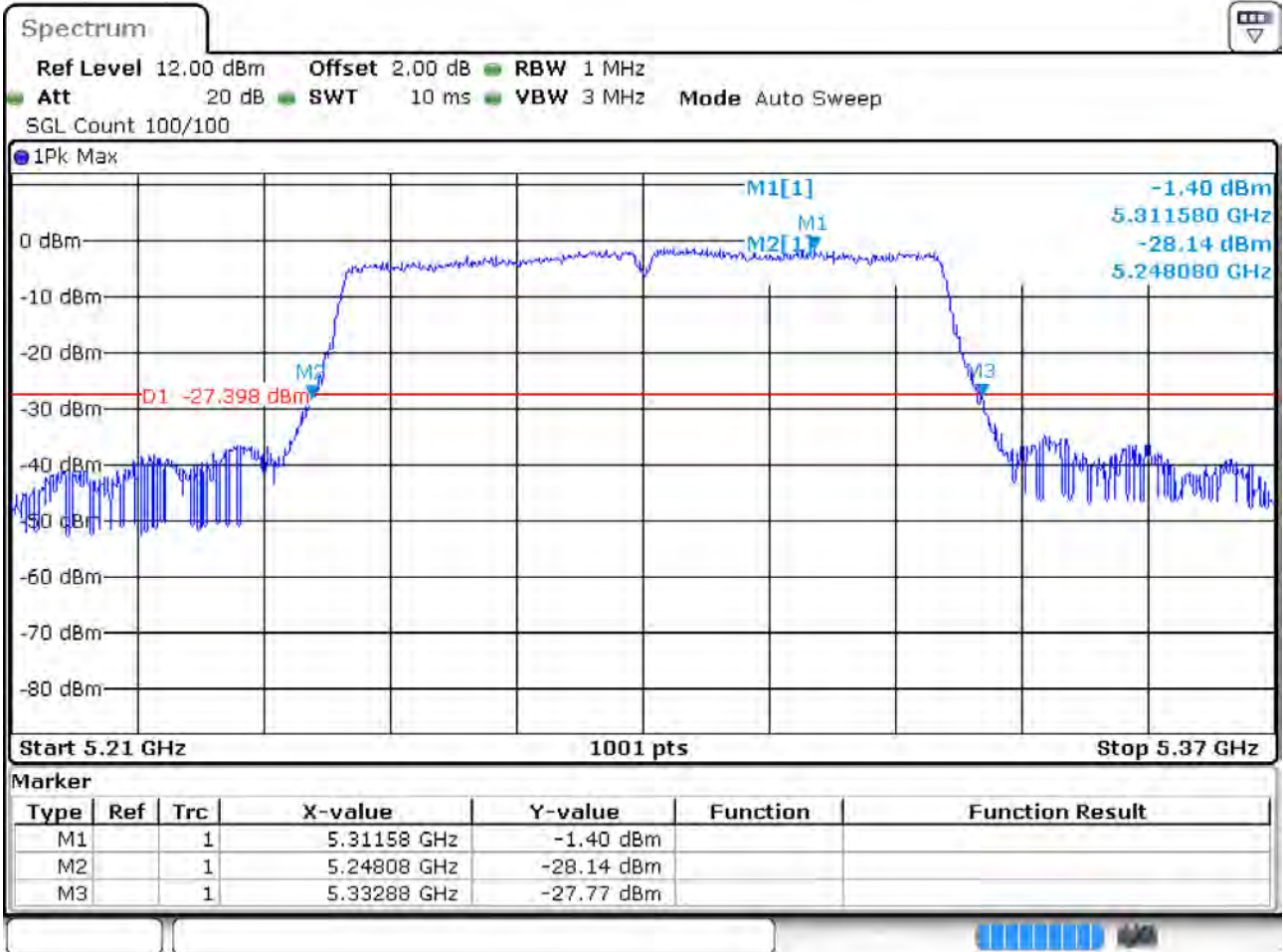


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4.5.1.112 11AC80_58 ANT 2



Date: 30 JUL 2019 03:51:33

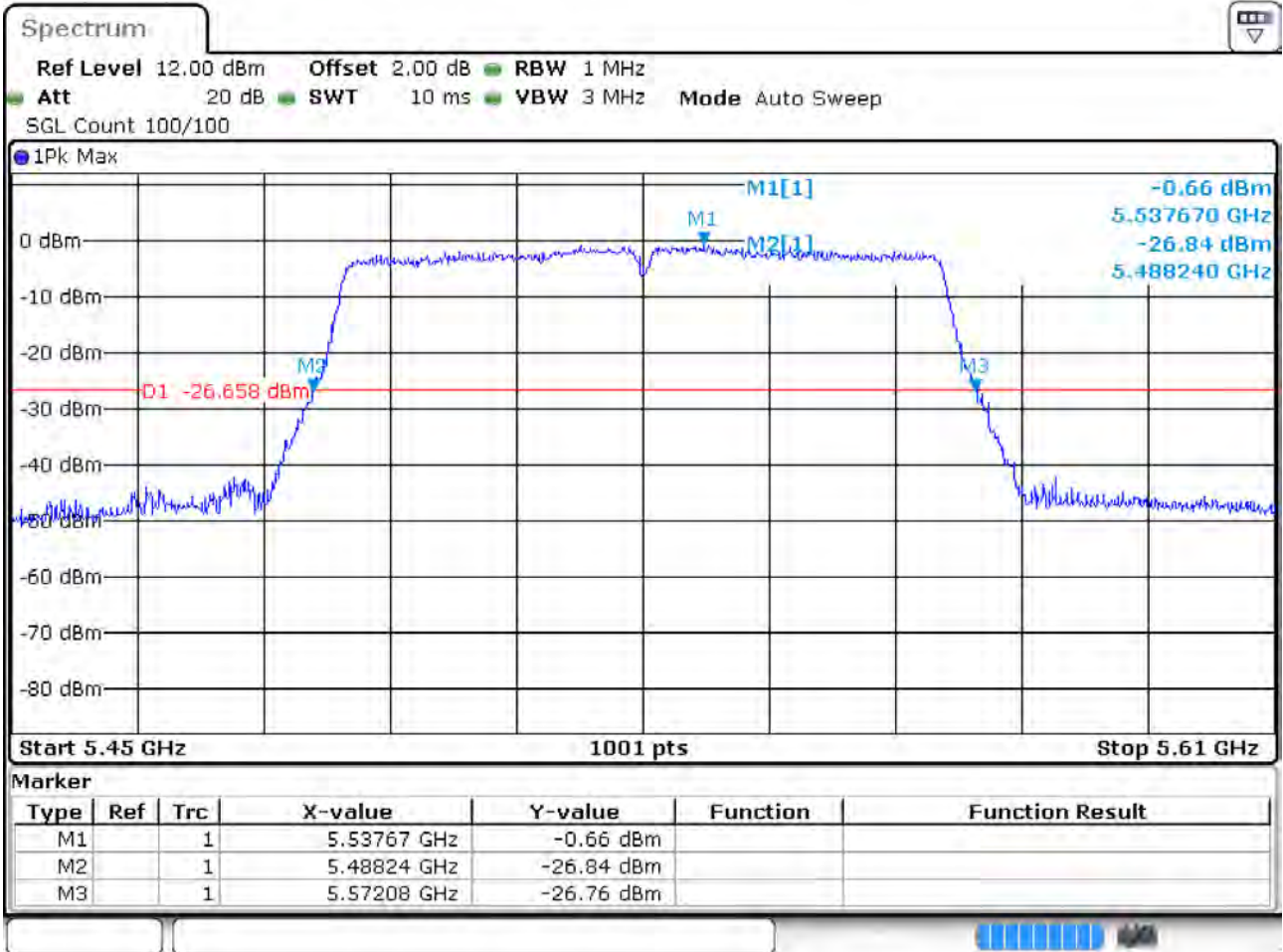


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4.5.1.113 11AC80_106 ANT 1

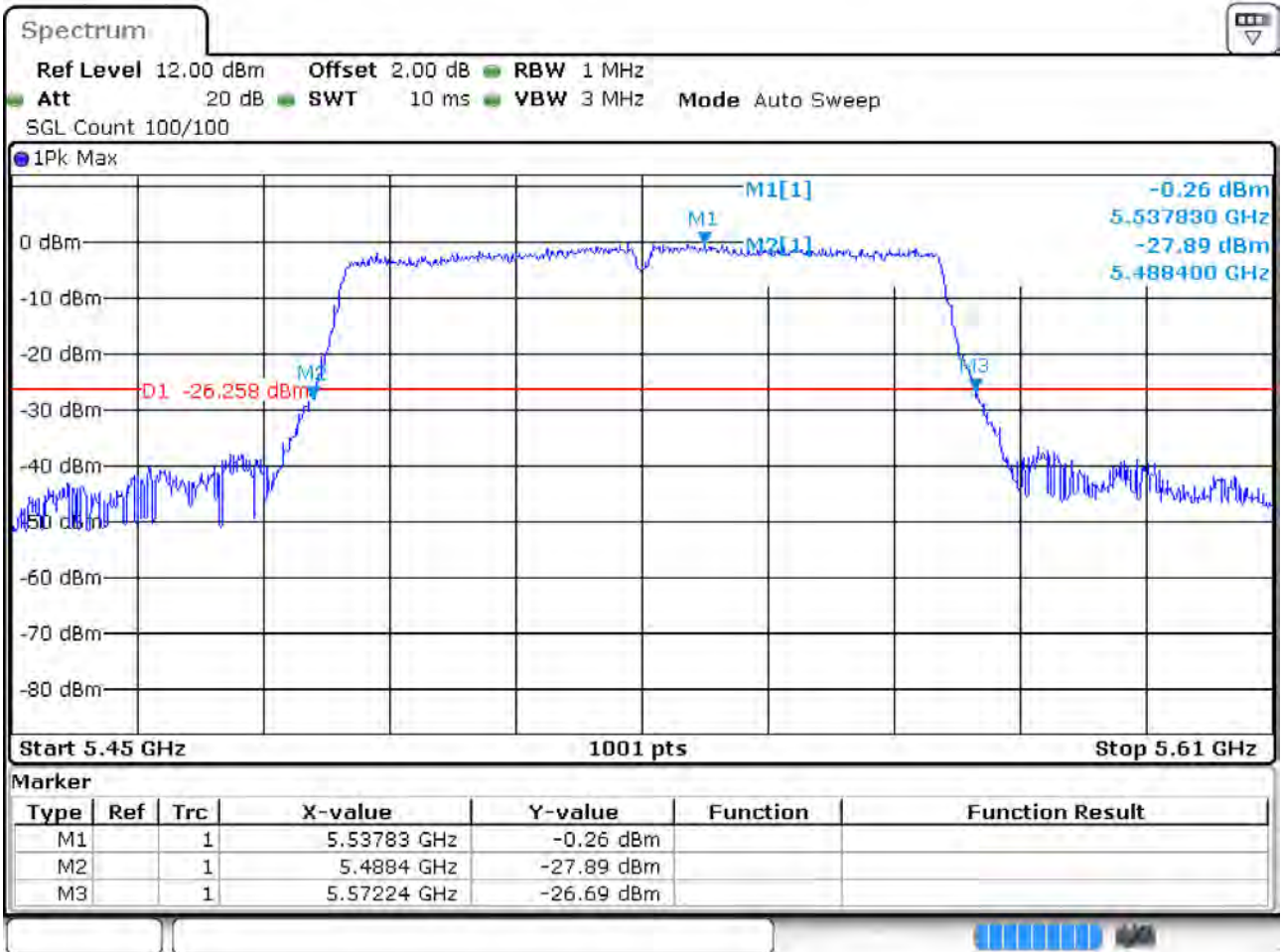


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4.5.1.114 11AC80_106 ANT 2

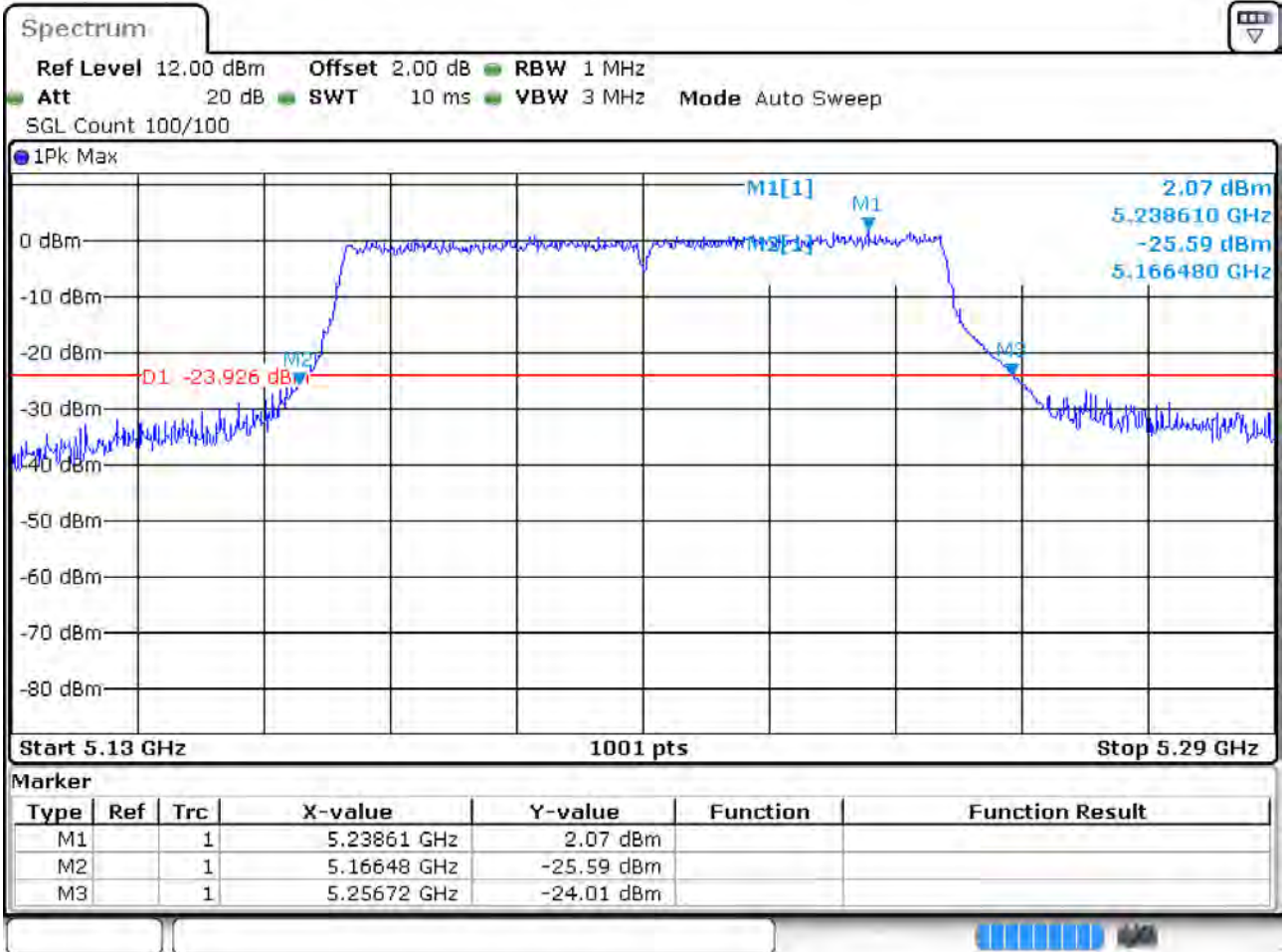


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4.5.1.115 11AC80MIMO_42 ANT 1

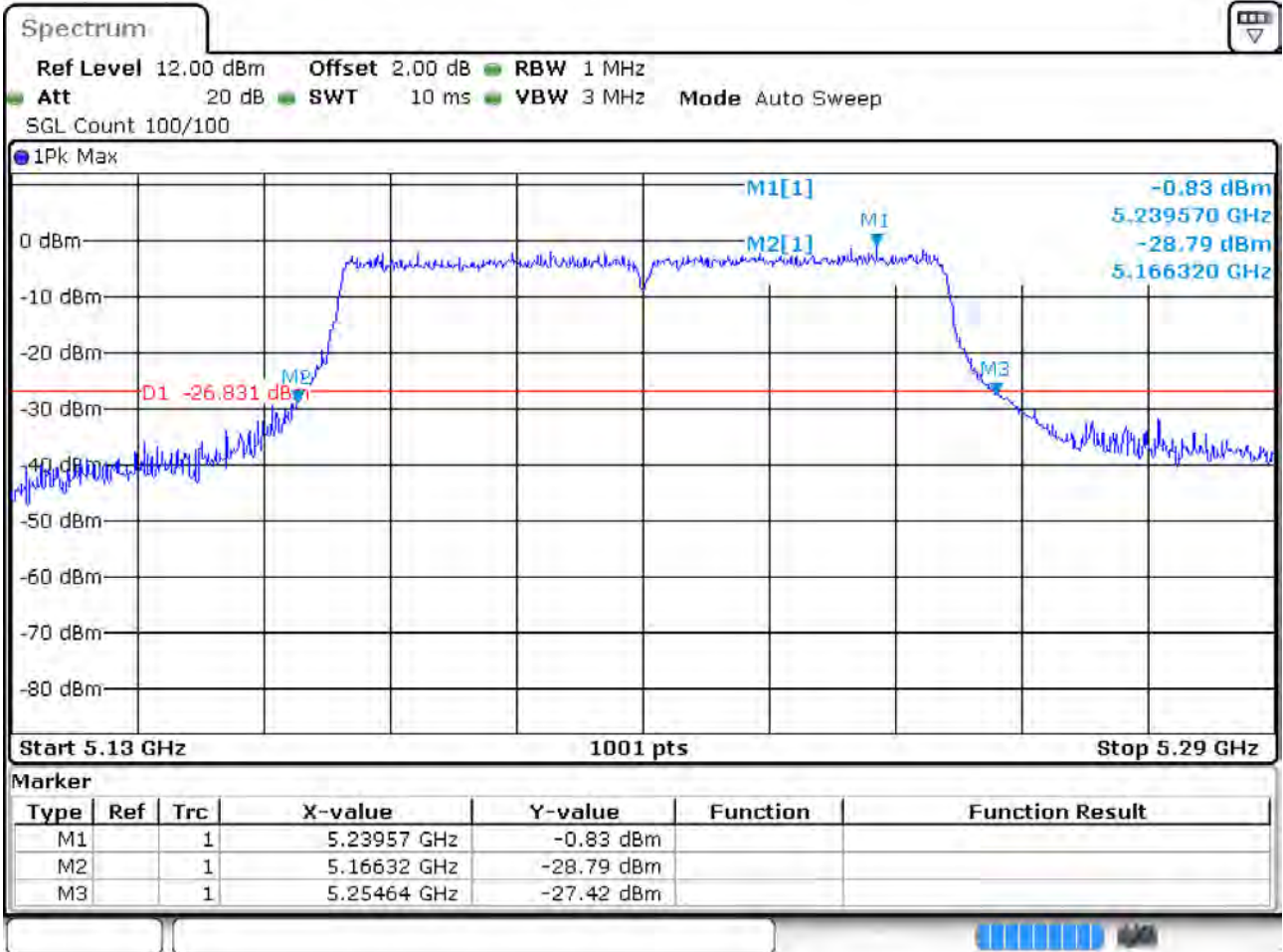


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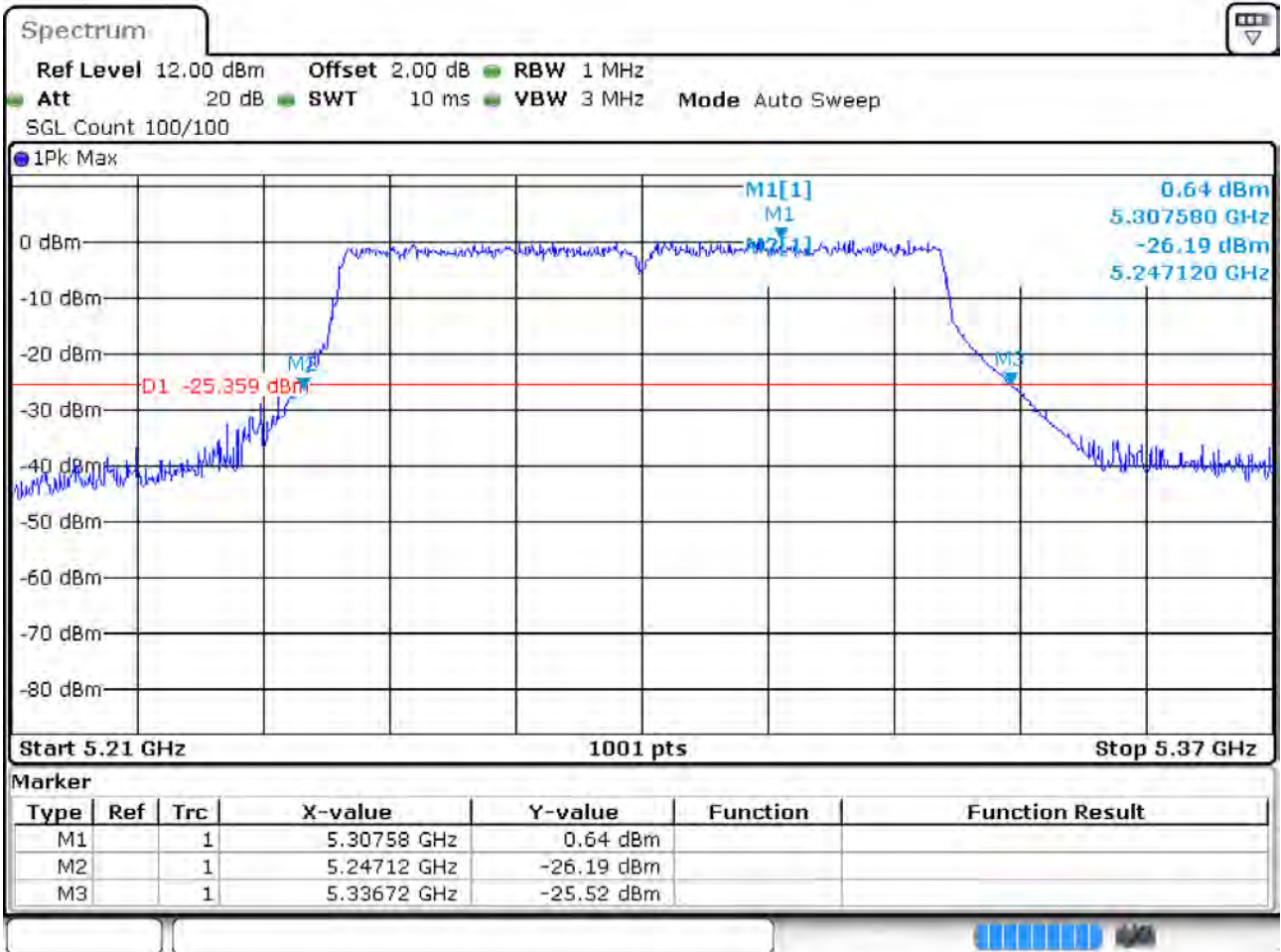
4.5.1.116 11AC80MIMO_42 ANT 2



Date: 30 JUL 2019 22:05:37



4.5.1.117 11AC80MIMO_58 ANT 1



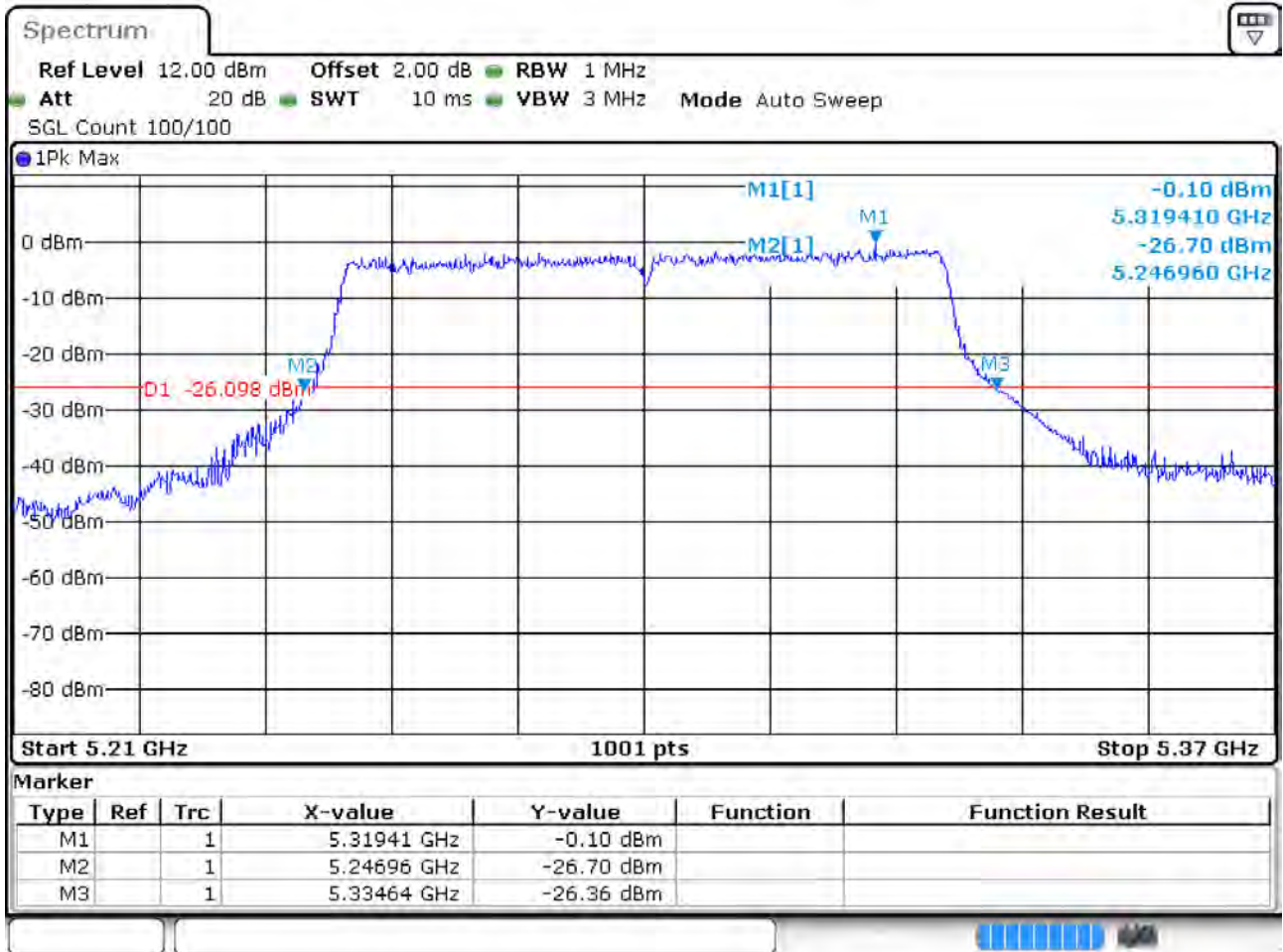
Date: 30 JUL 2019 21:03:34



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4.5.1.118 11AC80MIMO_58 ANT 2

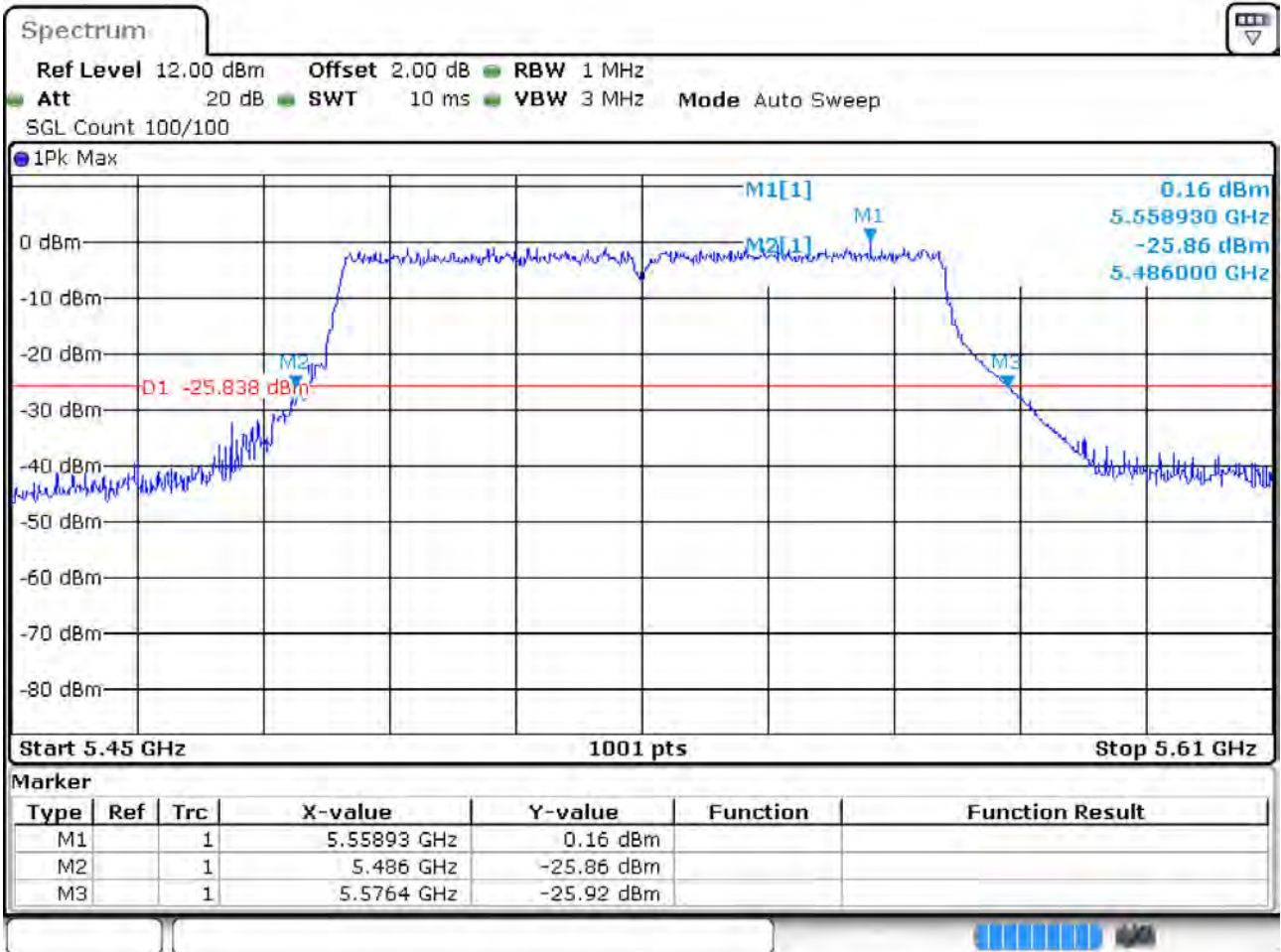


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4.5.1.119 11AC80MIMO_106 ANT 1



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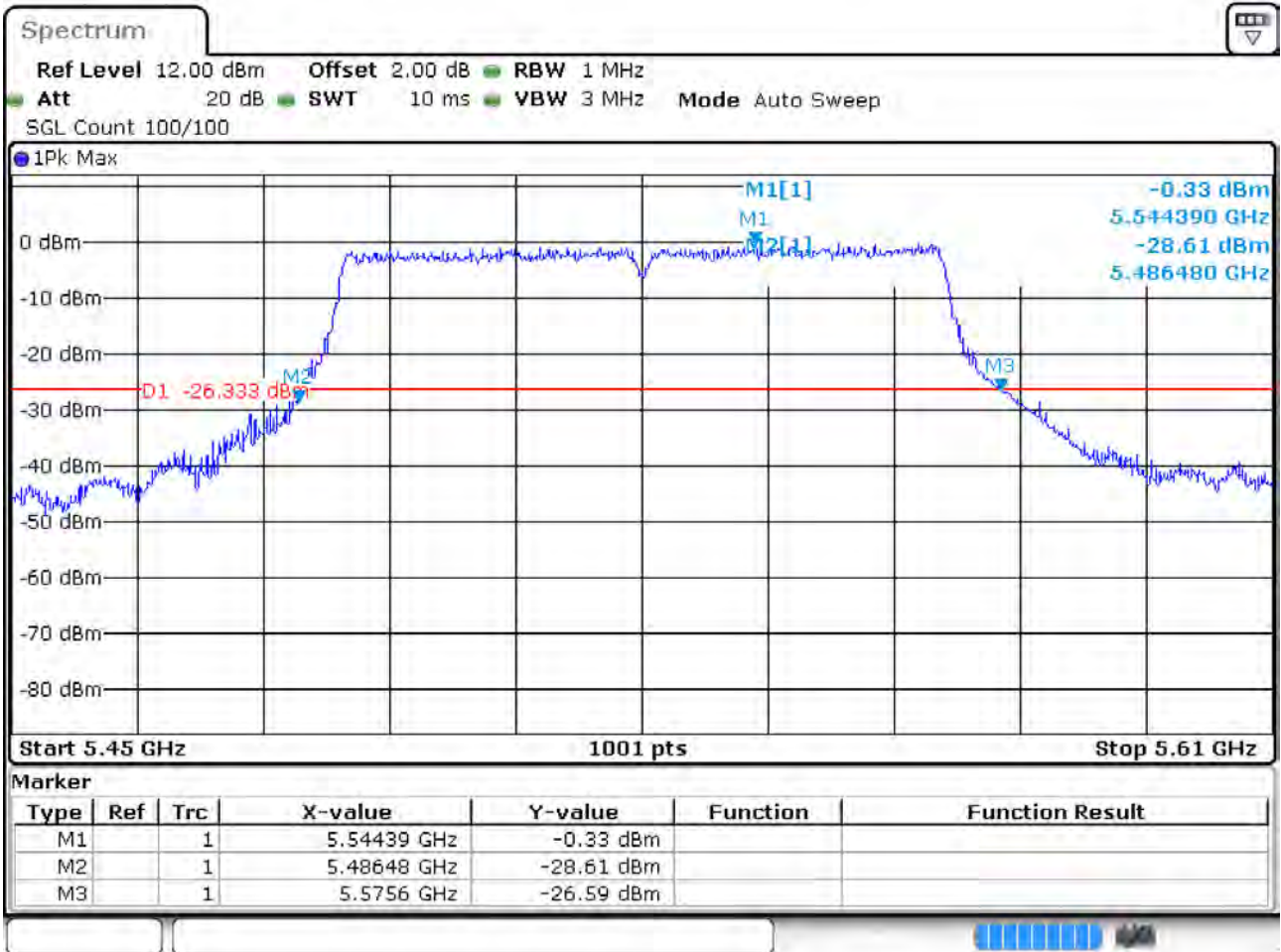


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4.5.1.120 11AC80MIMO_106 ANT 2

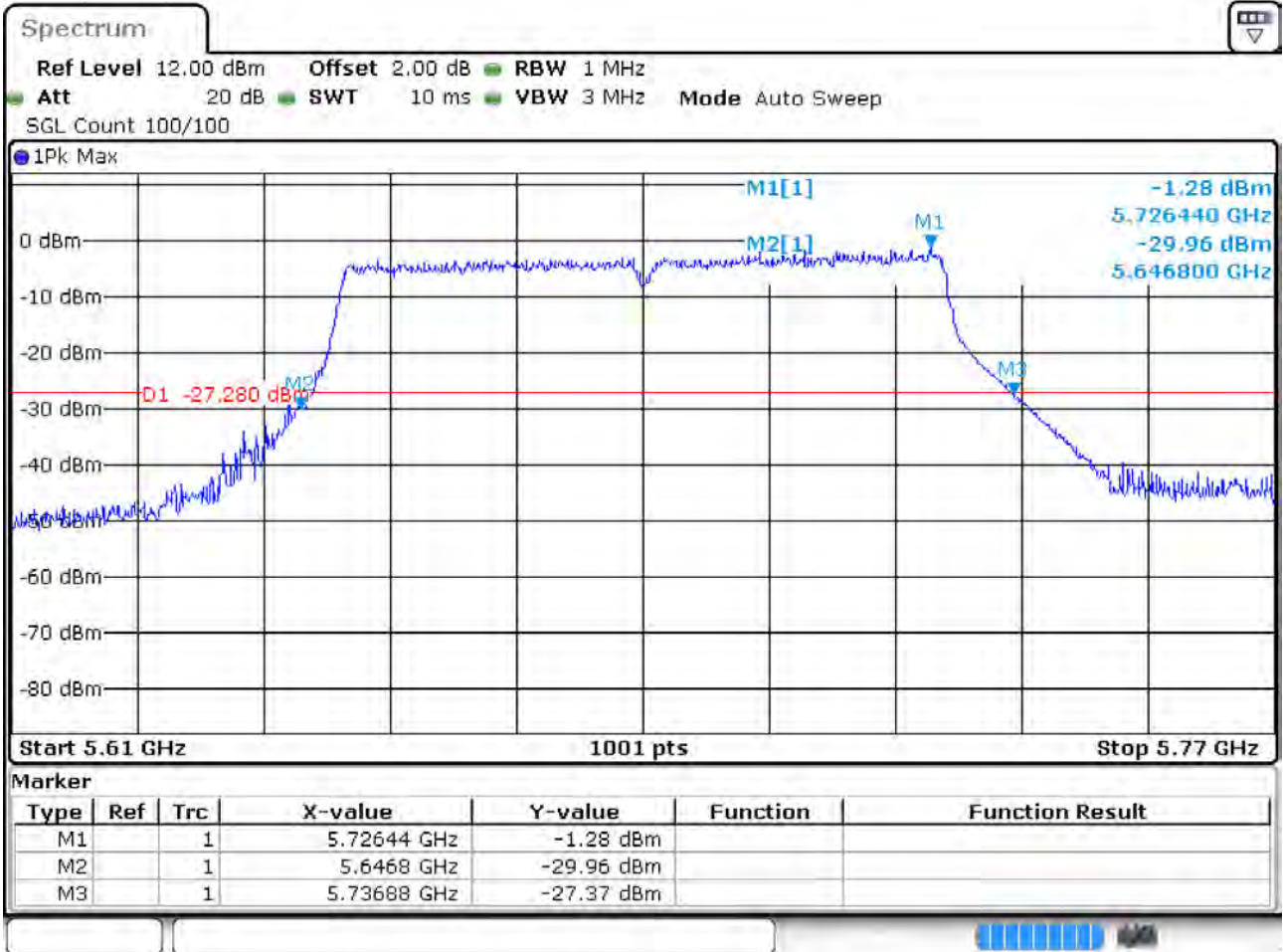


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4.5.1.121 11AC80MIMO_138 ANT 1

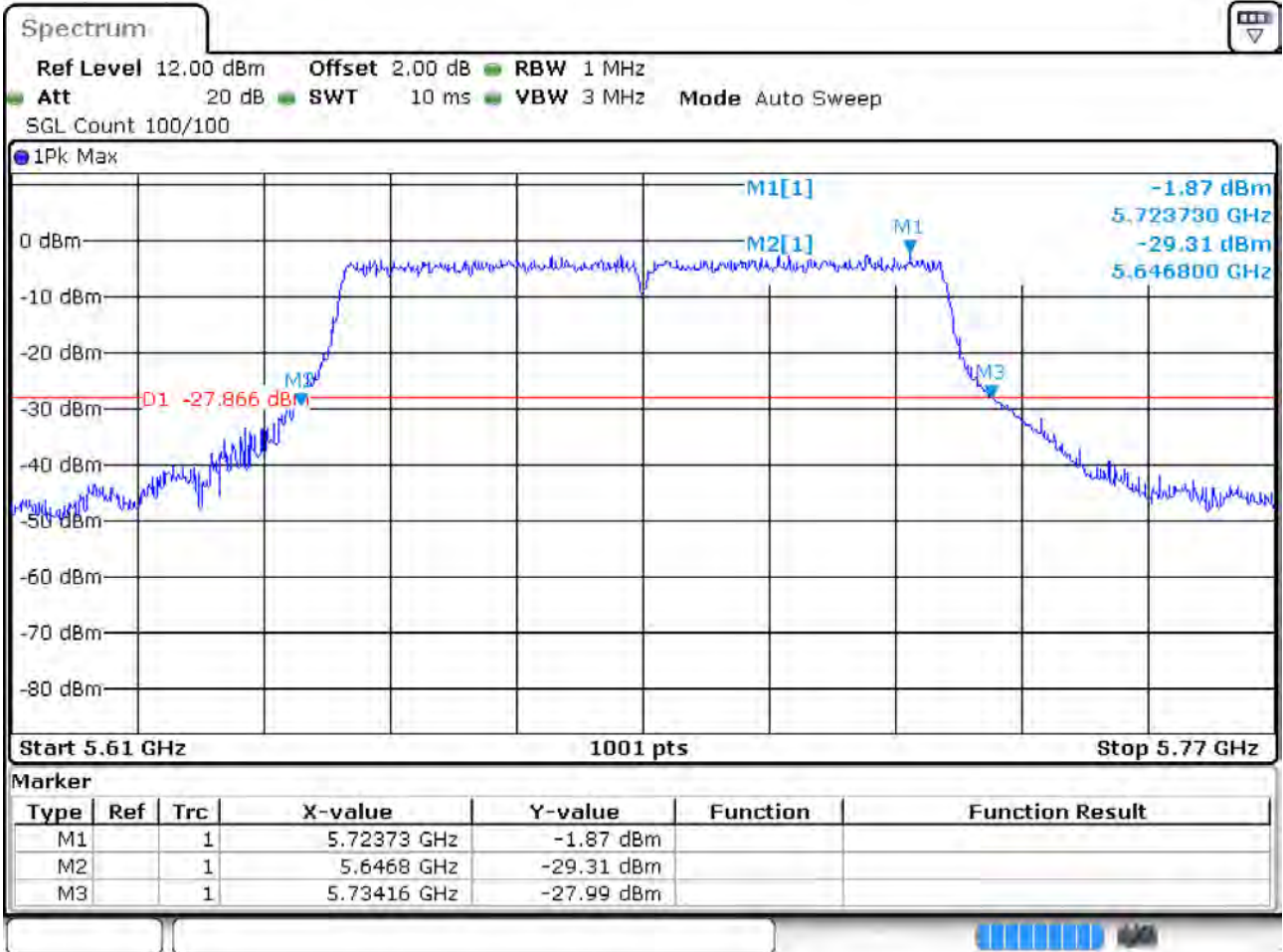


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4.5.1.122 11AC80MIMO_138 ANT 2



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4.6 6dB Emission 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); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 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	



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4.6.1 Test Plots For 6dB Emission Bandwidth

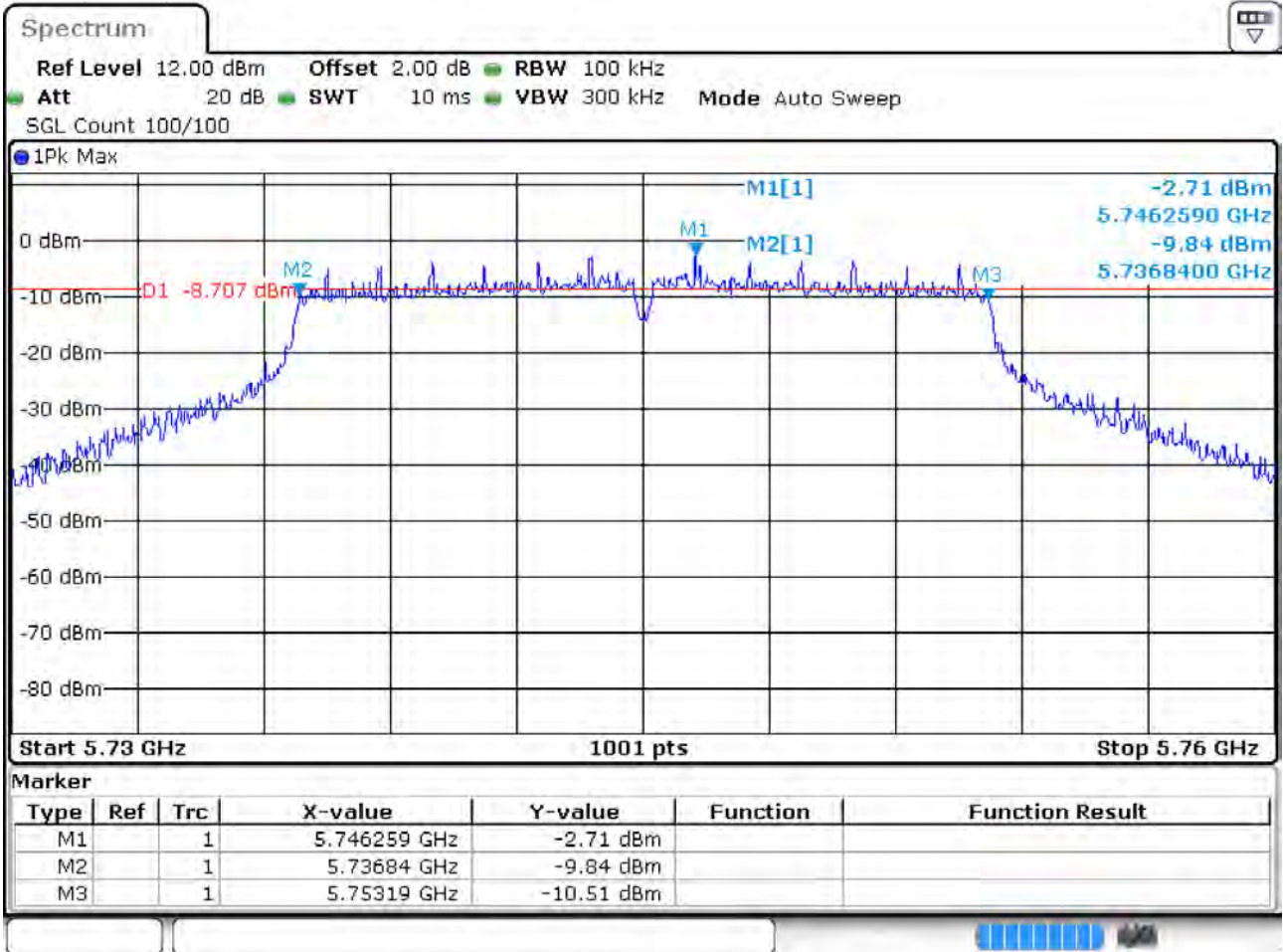
Test Mode	Test Channel	Frequency [MHz]	6dB Emission Bandwidth [MHz]		Verdict
			ANT 1	ANT 2	
11A20	149	5745	16.35	16.11	PASS
	165	5825	15.48	15.99	PASS
11N20	149	5745	17.61	16.02	PASS
	165	5825	15.39	16.98	PASS
11N20 MIMO	149	5745	16.32	16.62	PASS
	165	5825	15.78	16.2	PASS
11N40	151	5755	35.82	36.36	PASS
	159	5795	35.88	36.42	PASS
11N40 MIMO	151	5755	35.22	36.12	PASS
	159	5795	36.24	35.7	PASS
11AC20	149	5745	15.72	15.66	PASS
	165	5825	15.72	16.2	PASS
11AC20MIMO	149	5745	17.76	17.79	PASS
	165	5825	17.79	17.82	PASS
11AC40	151	5755	35.52	36.24	PASS
	159	5795	35.22	36.48	PASS
11AC40MIMO	151	5755	36.54	36.54	PASS
	159	5795	36.6	36.6	PASS
11AC80	155	5775	75.52	75.52	PASS
11AC80MIMO	155	5775	76.64	76.64	PASS



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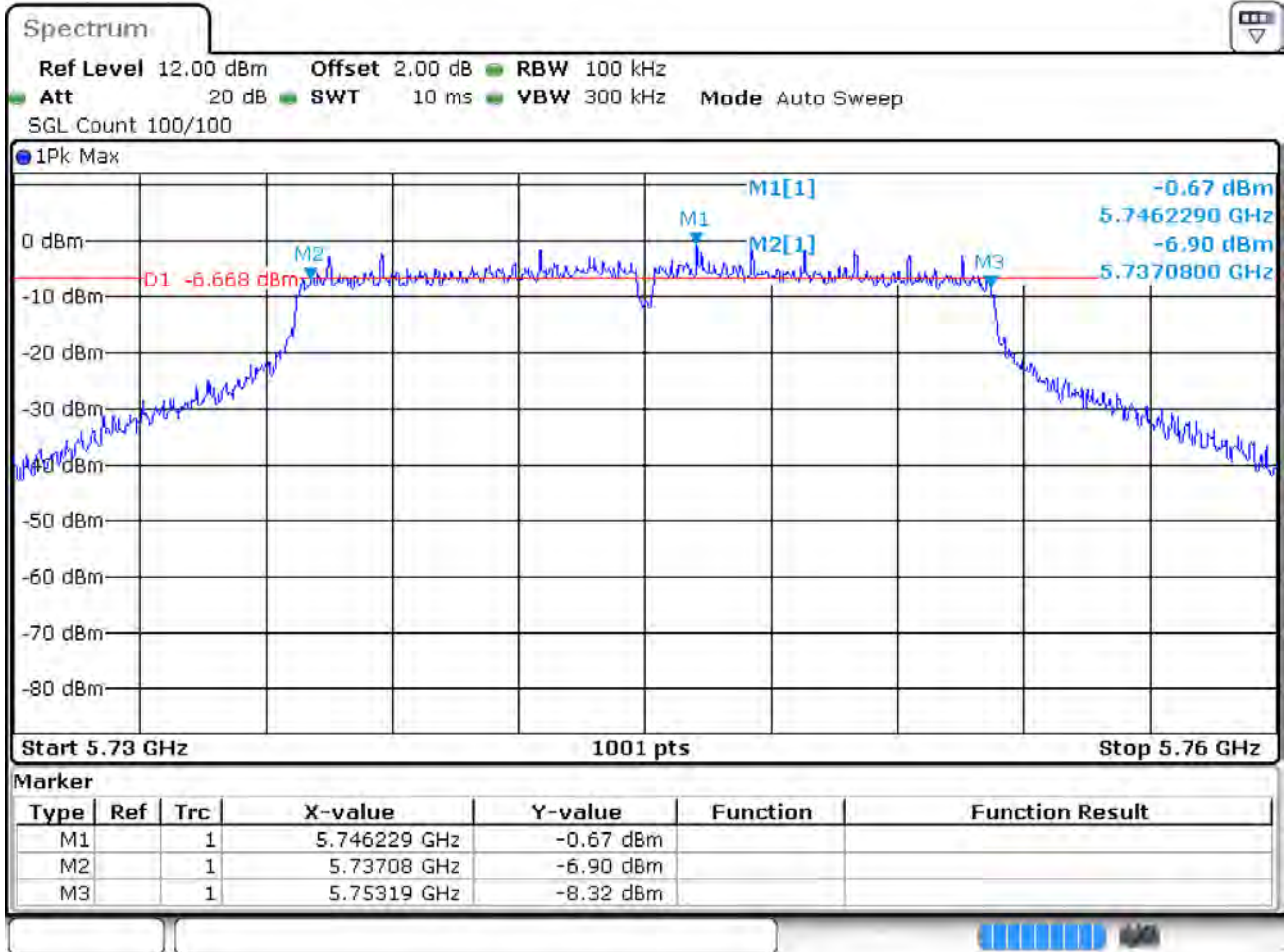
4.6.2 Test Plots For 6dB Emission Bandwidth
 4.6.2.1 11A20_149 ANT 1



Date: 29 JUL 2019 21:47:19



4.6.2.2 11A20_149 ANT 2

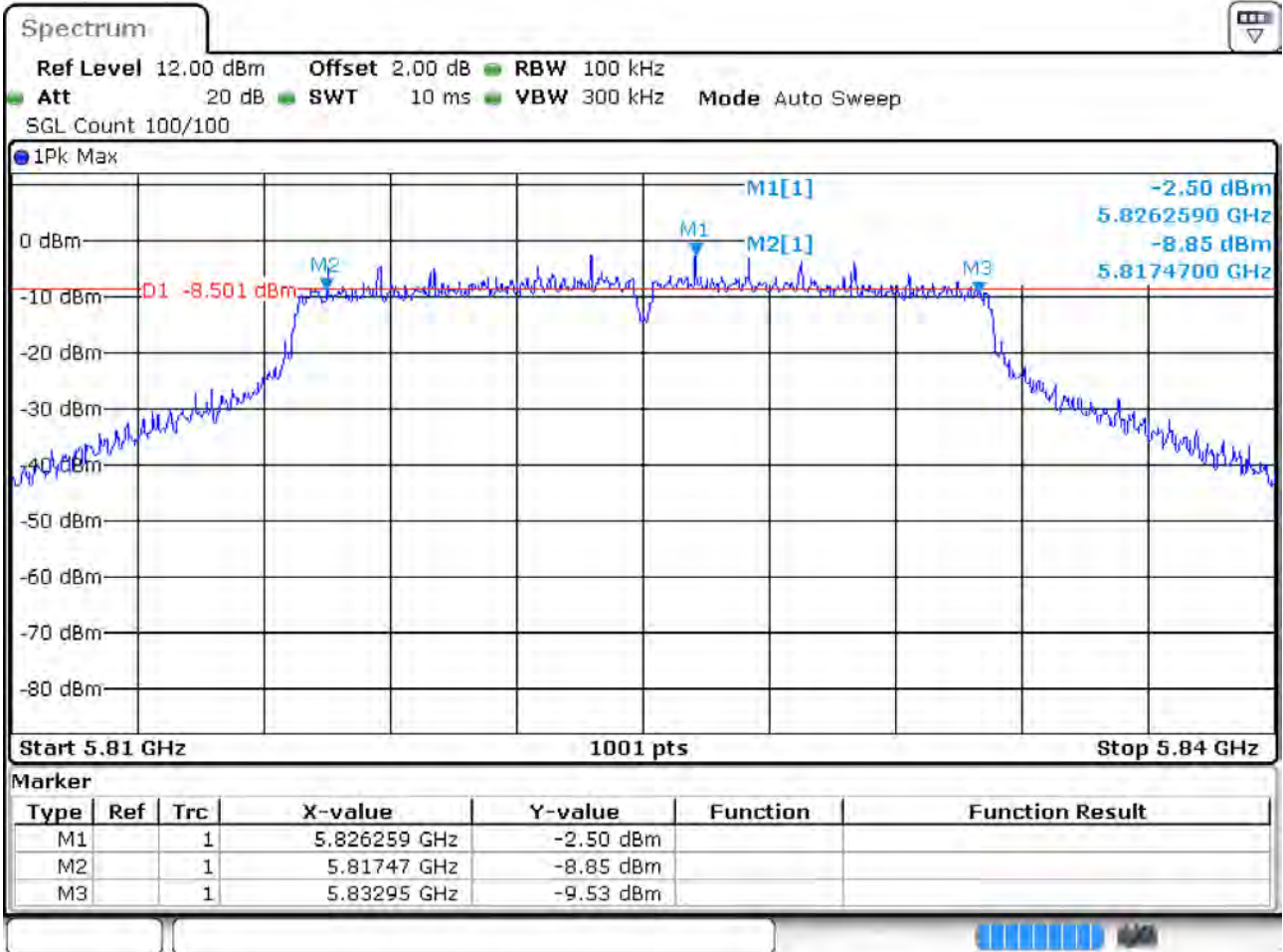


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4.6.2.3 11A20_165 ANT 1

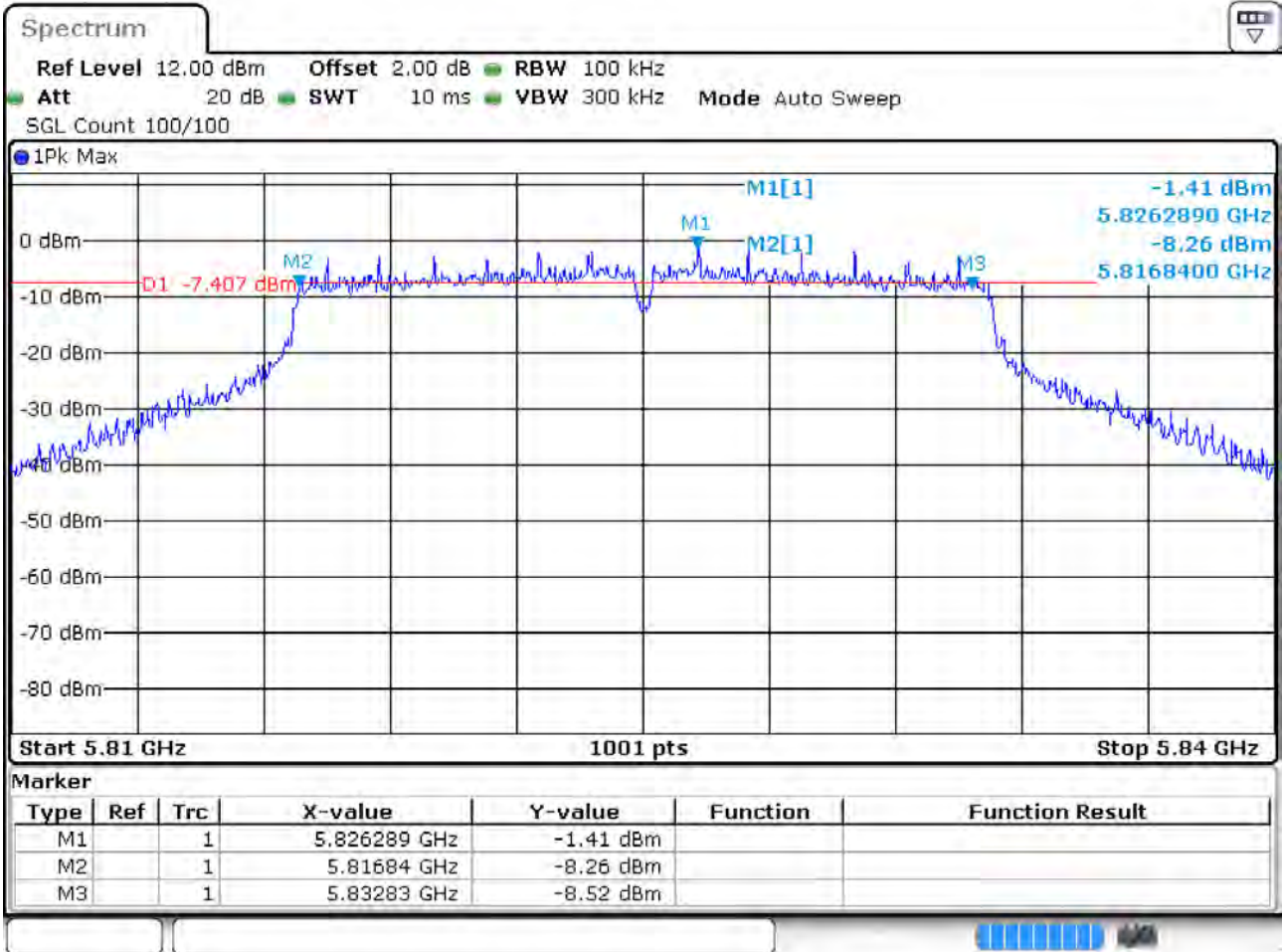


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4.6.2.4 11A20_165 ANT 2

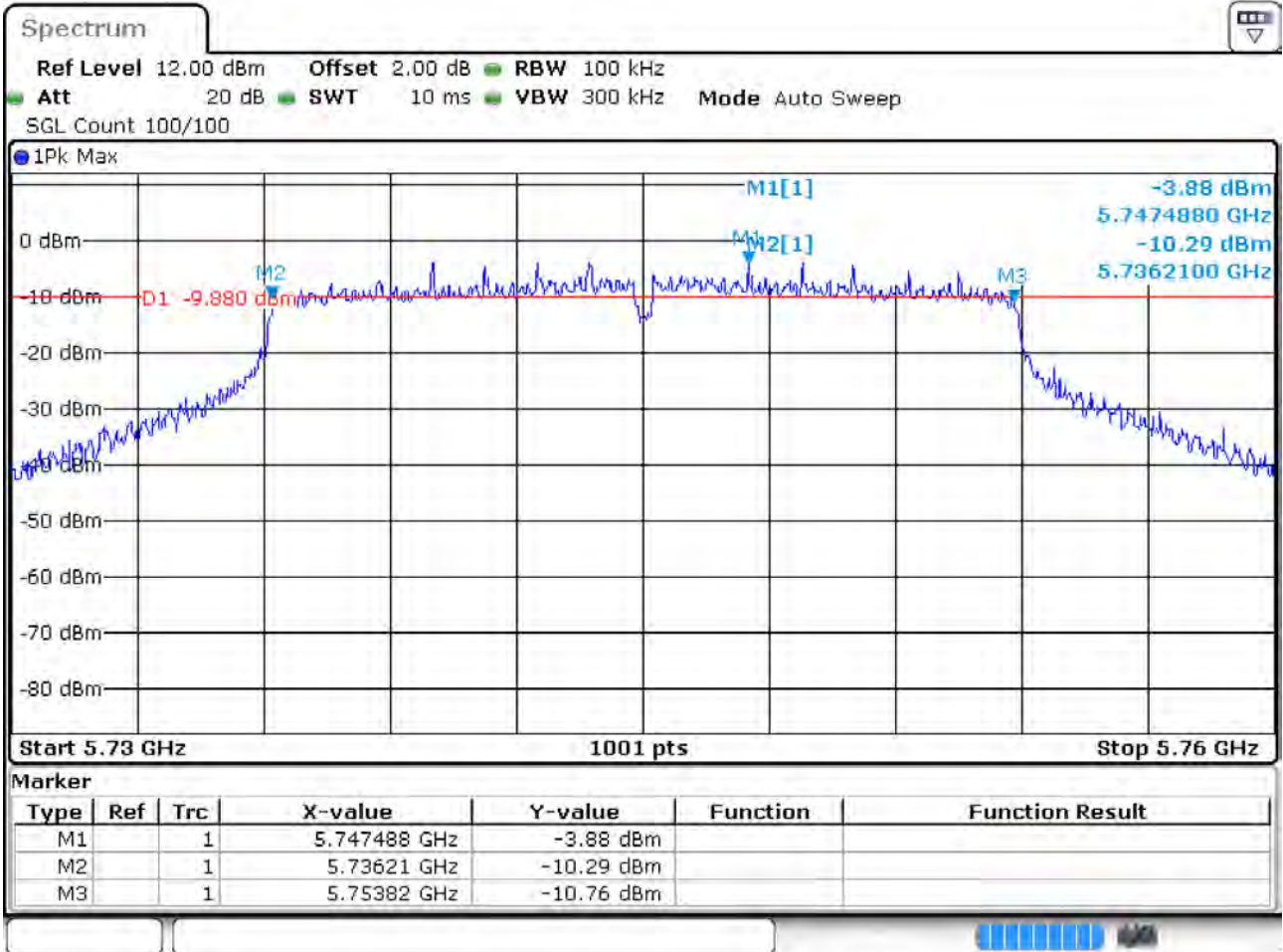


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4.6.2.5 11N20_149 ANT 1



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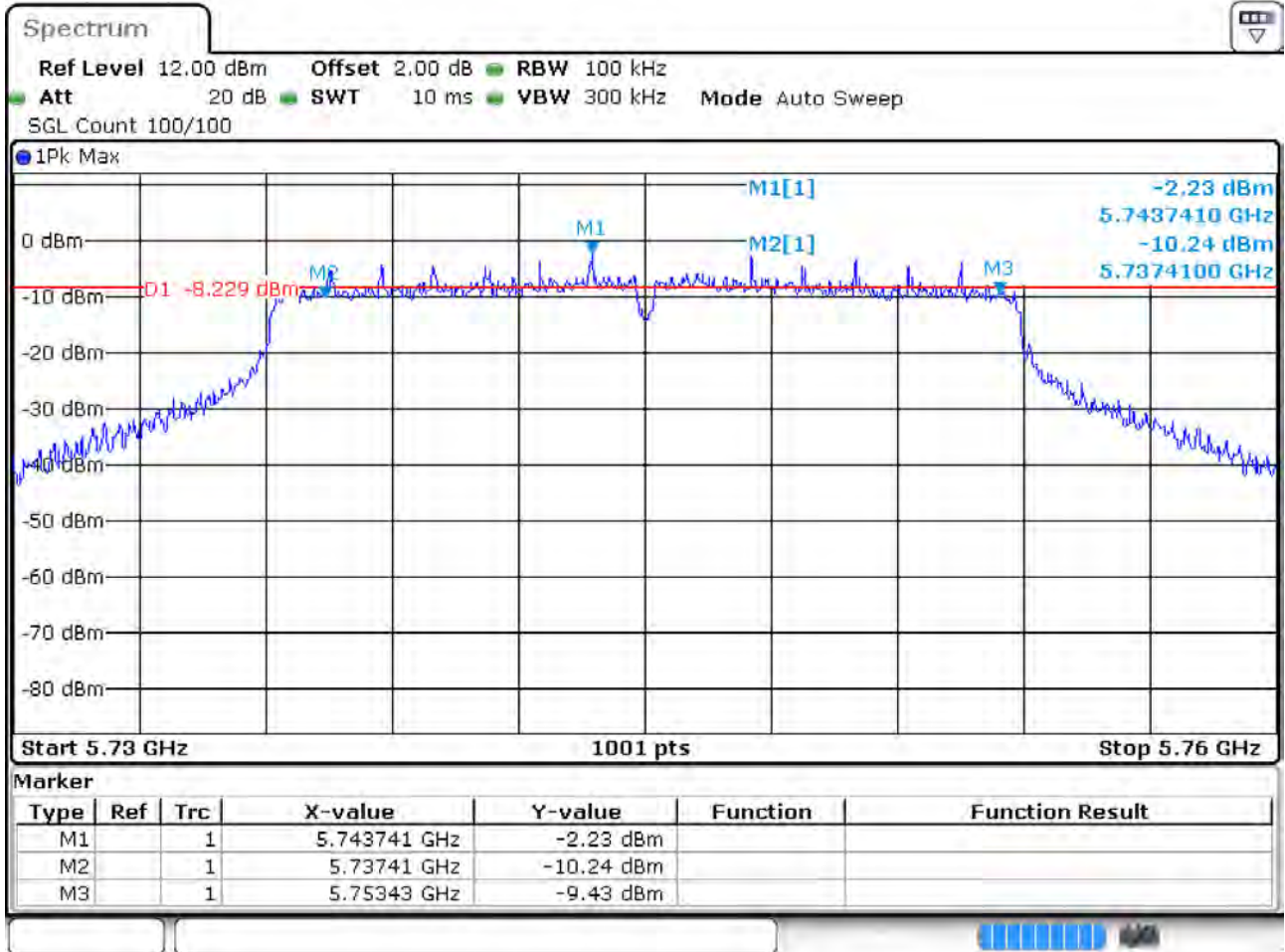


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4.6.2.6 11N20_149 ANT 2



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4.6.2.7 11N20_165 ANT 1



Date: 30 JUL 2019 00:29:49

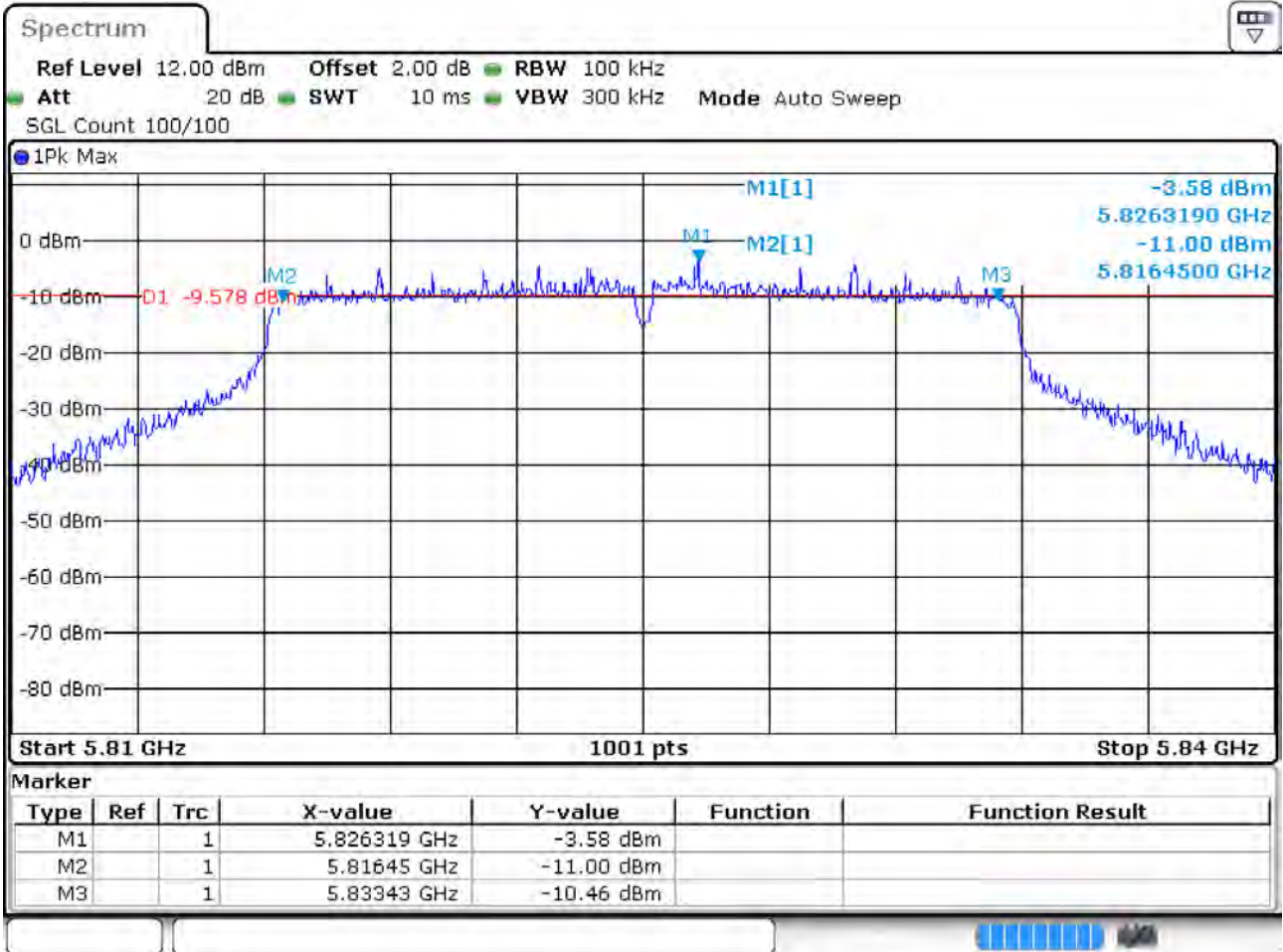


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4.6.2.8 11N20_165 ANT 2

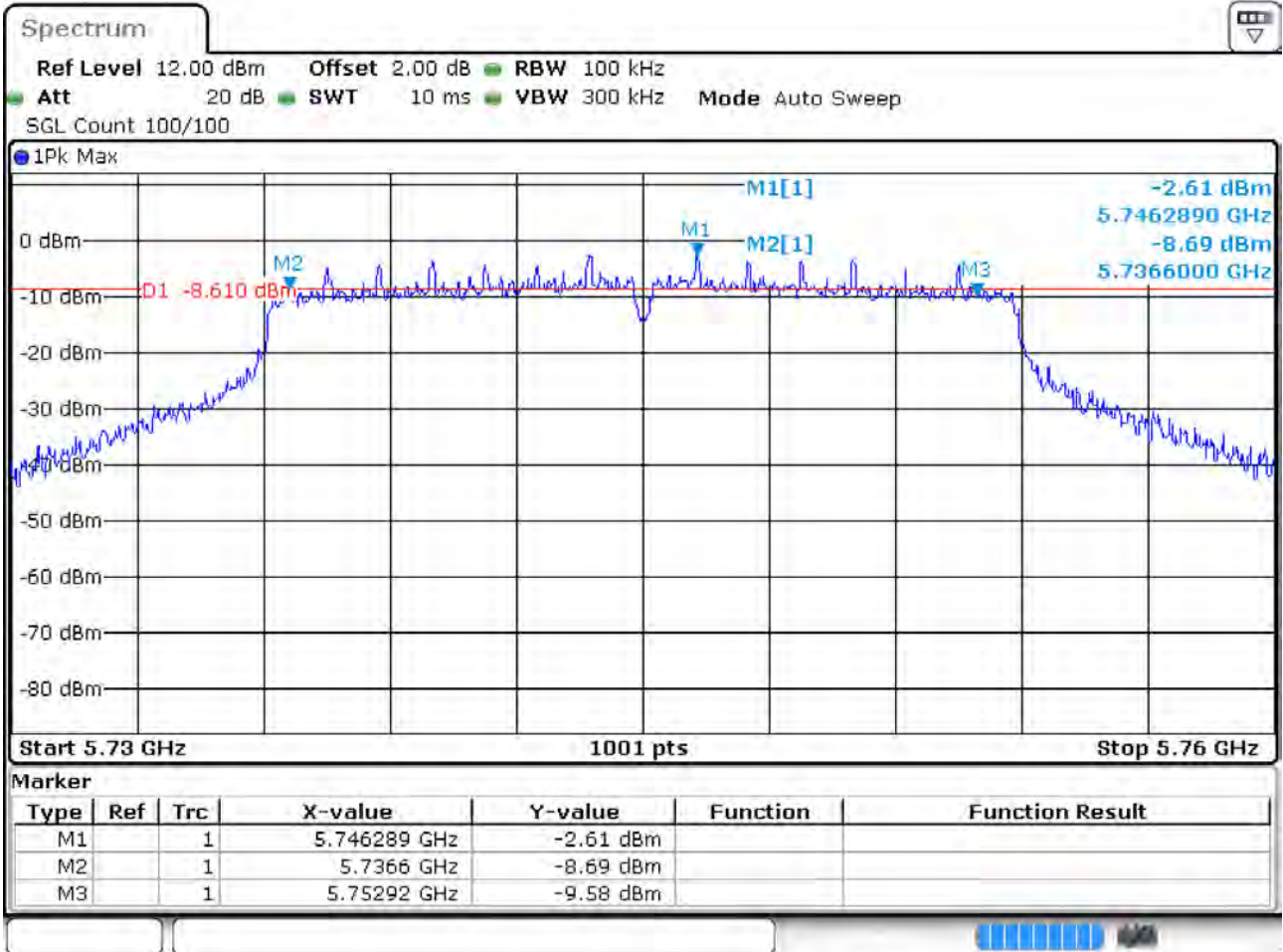


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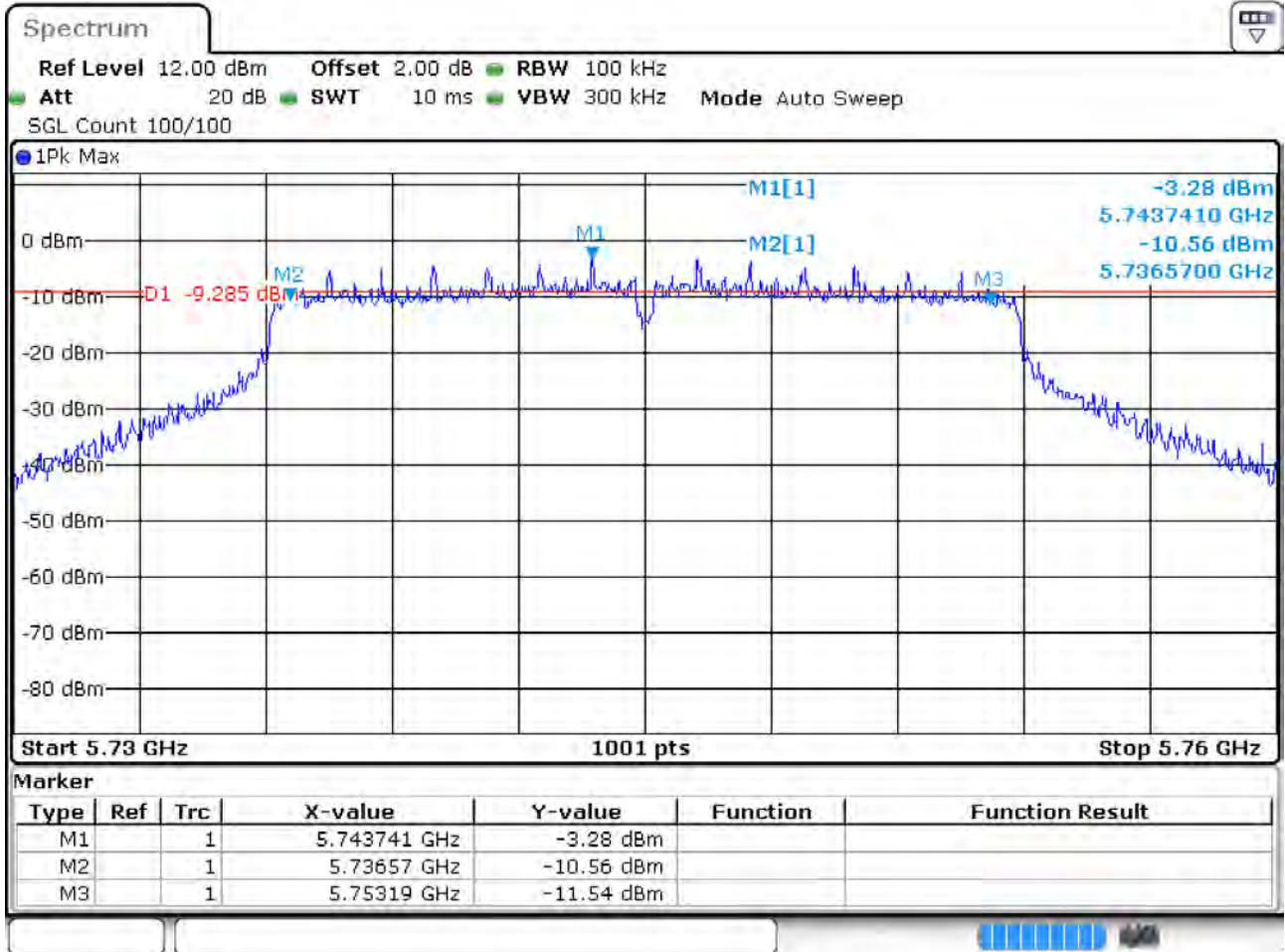
4.6.2.9 11N20MIMO_149 ANT 1



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4.6.2.10 11N20MIMO_149 ANT 2

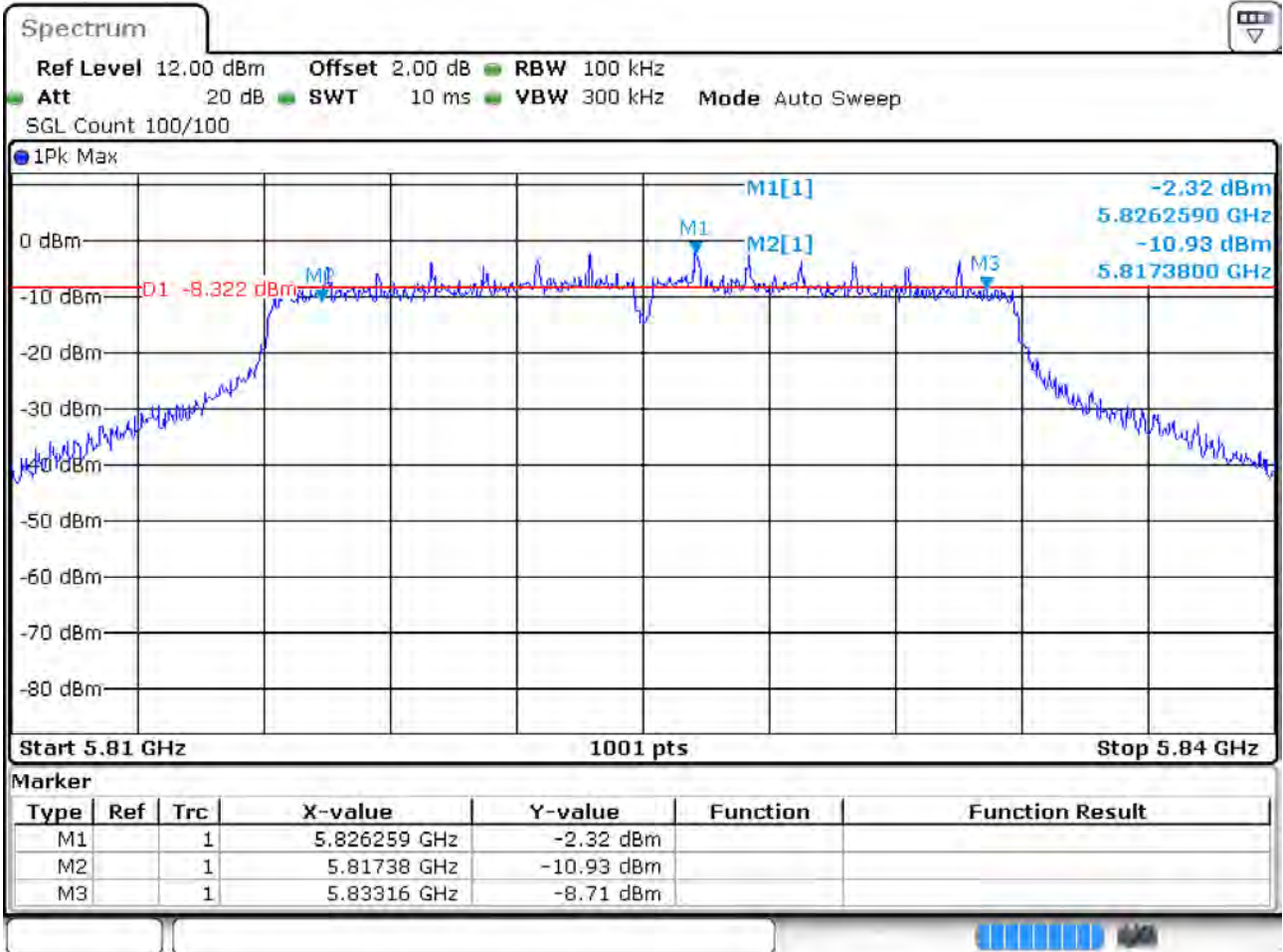


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4.6.2.11 11N20MIMO_165 ANT 1



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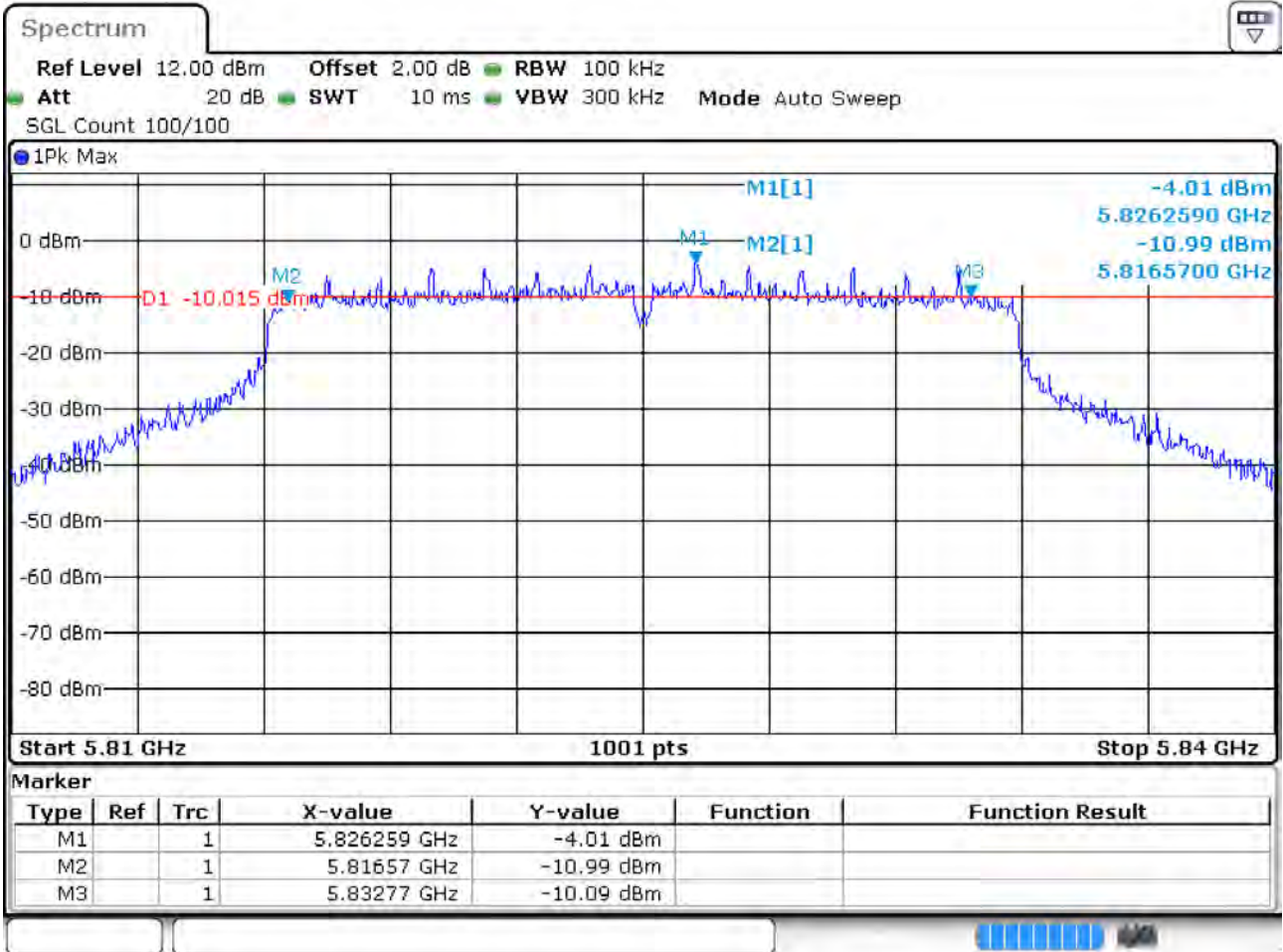


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4.6.2.12 11N20MIMO_165 ANT 2



Date: 30 JUL 2019 06:19:00

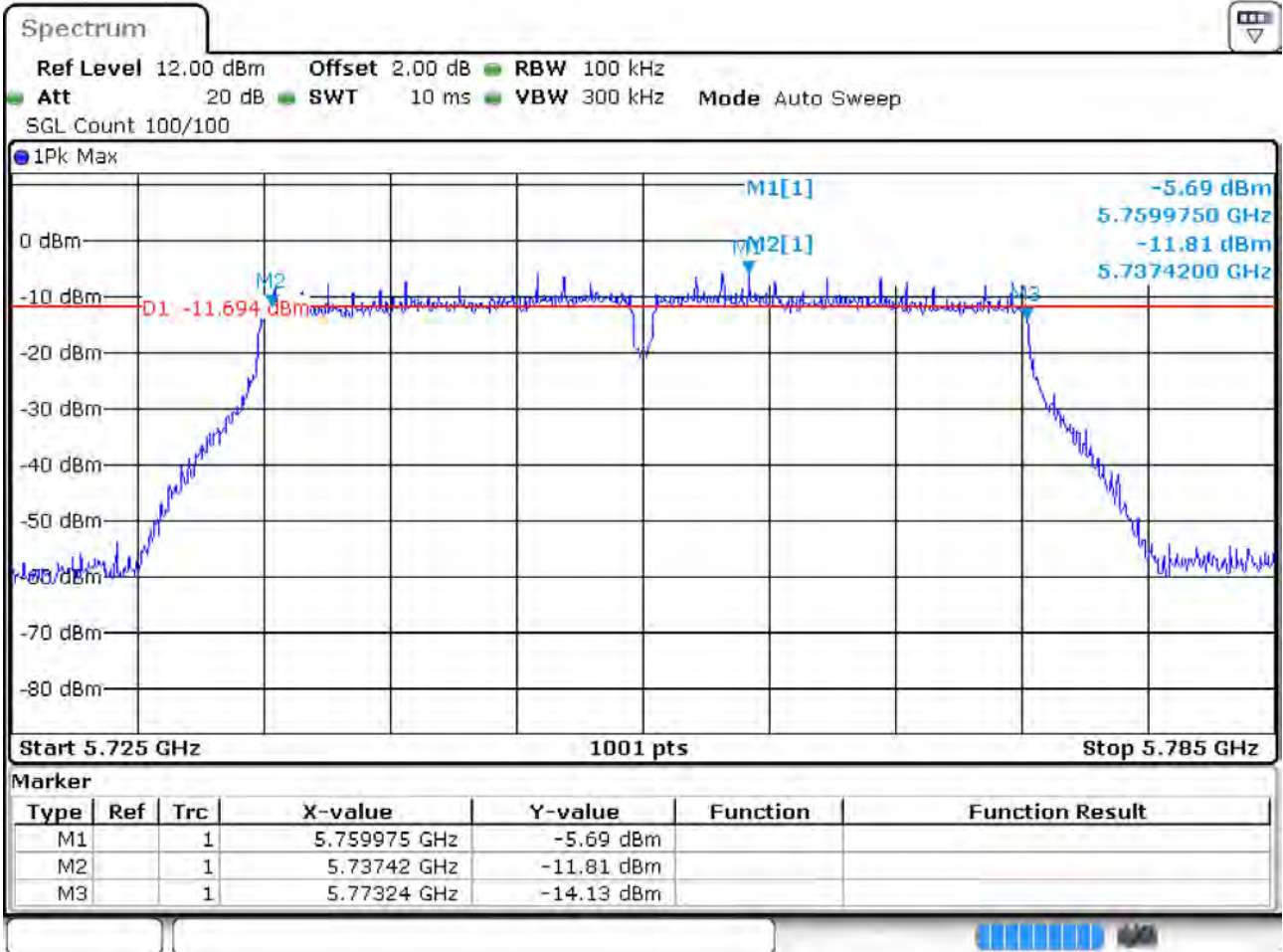


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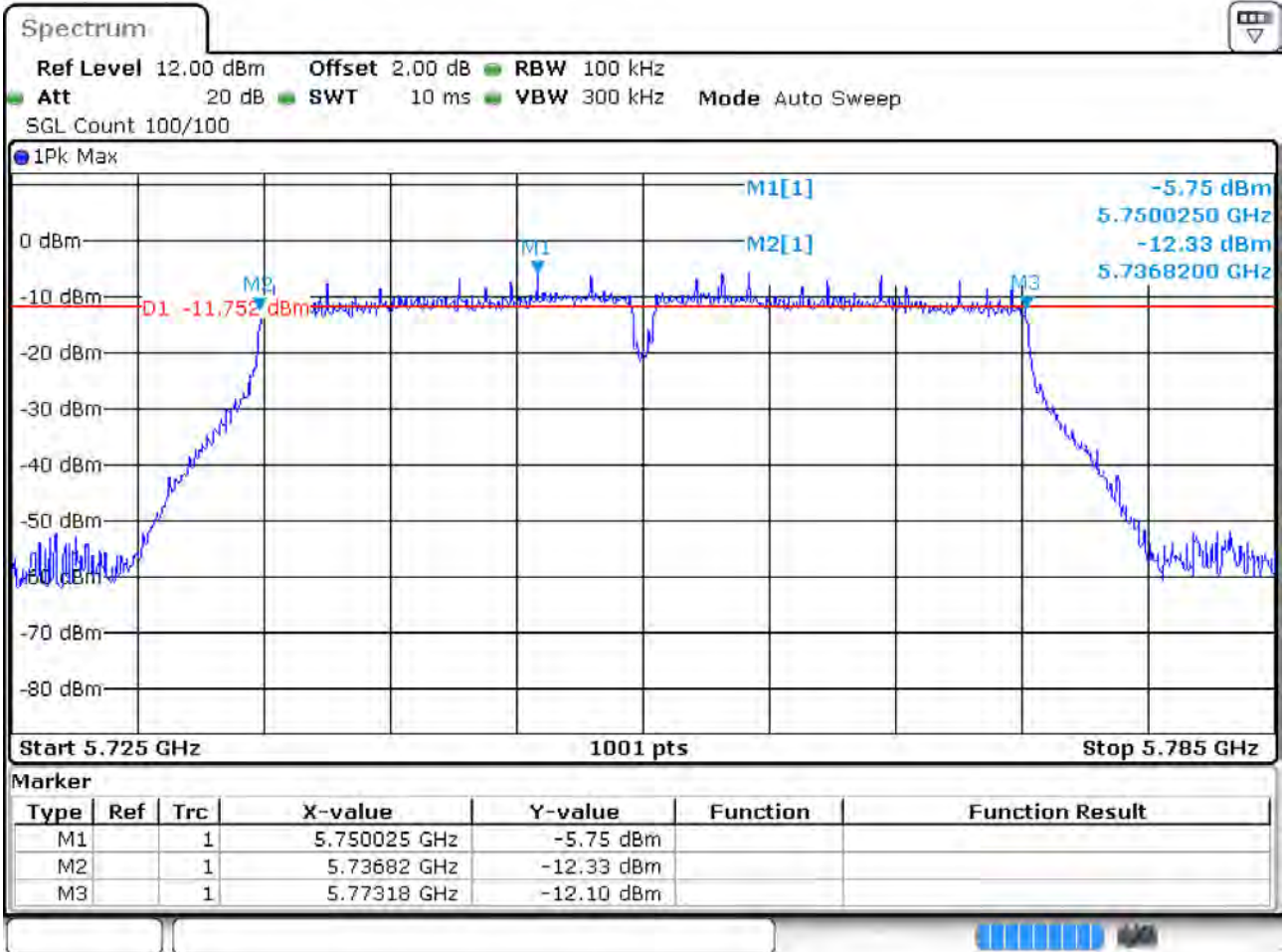
4.6.2.13 11N40_151 ANT 1



Date: 30 JUL 2019 02:10:30



4.6.2.14 11N40_151 ANT 2

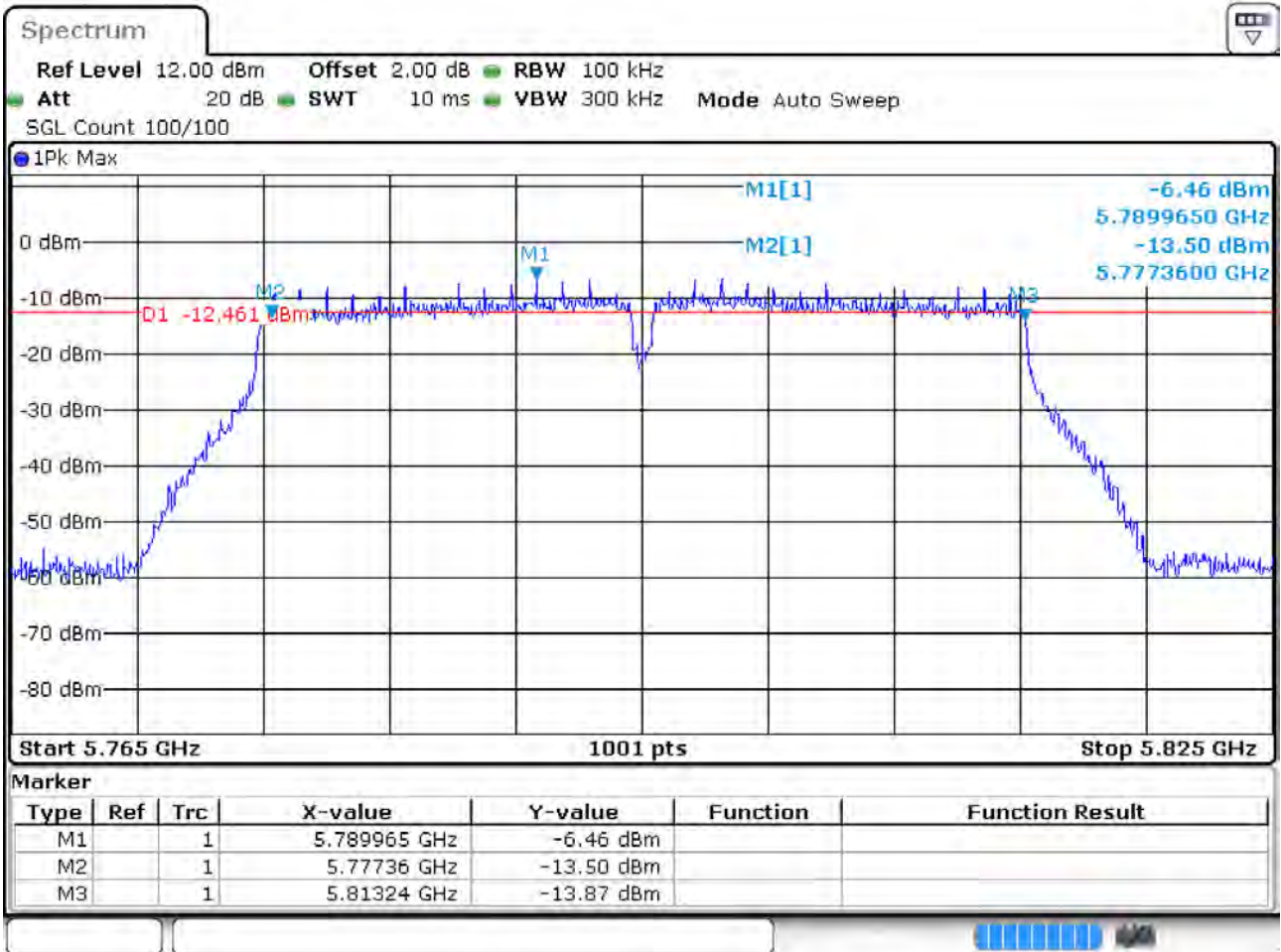


Date: 30 JUL 2019 01:51:58



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4.6.2.15 11N40_159 ANT 1

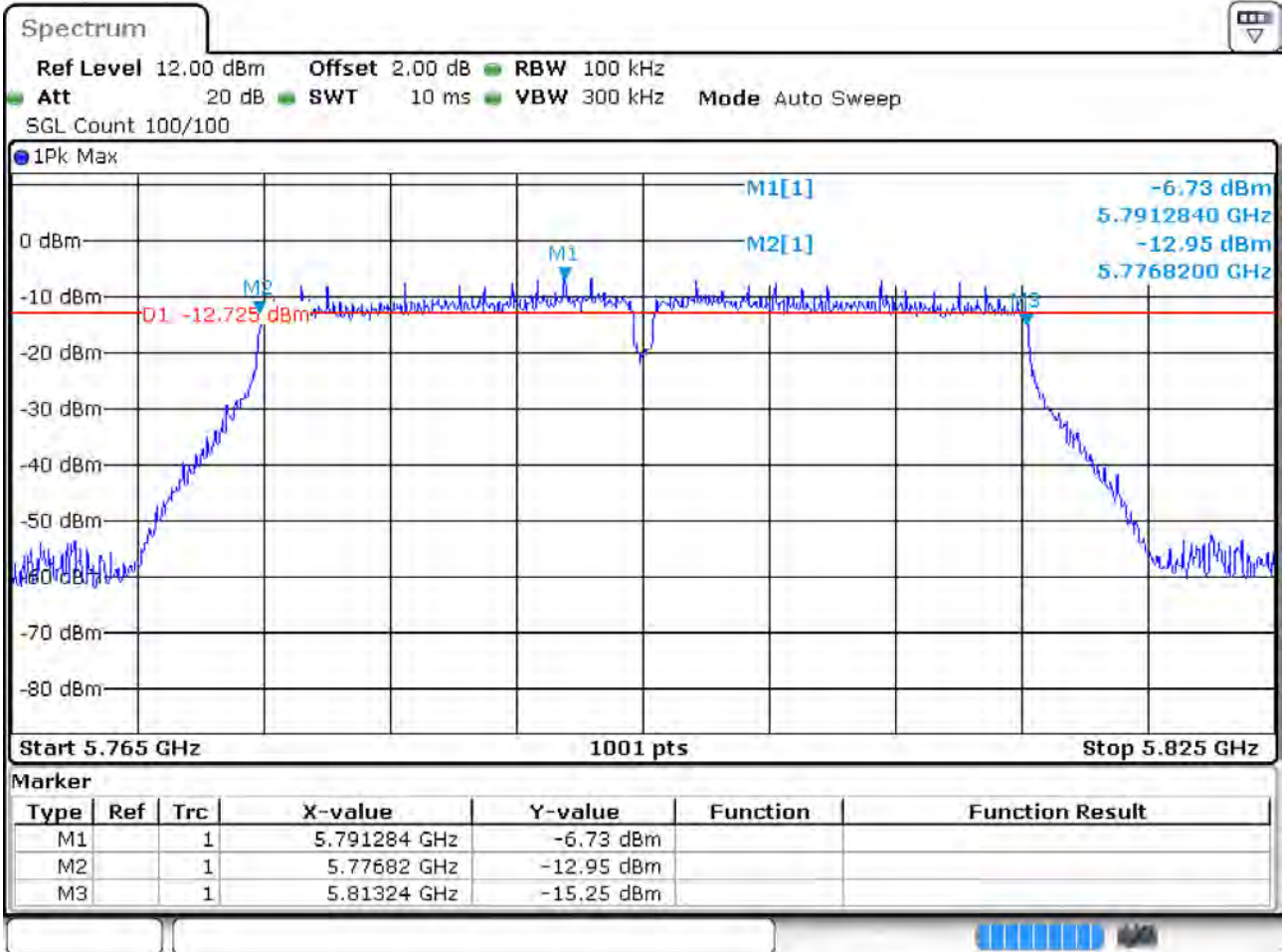


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4.6.2.16 11N40_159 ANT 2

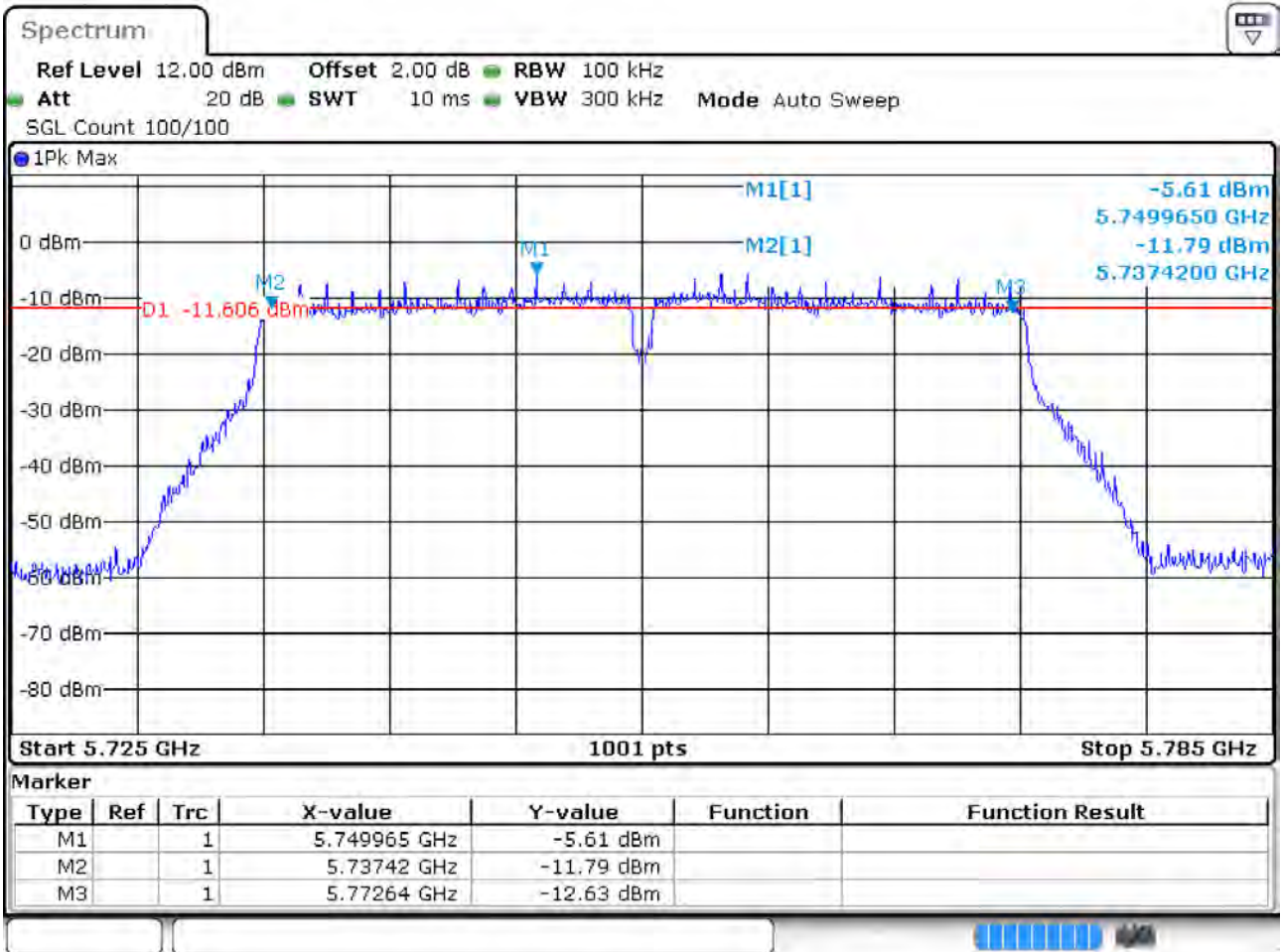


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4.6.2.17 11N40MIMO_151 ANT 1



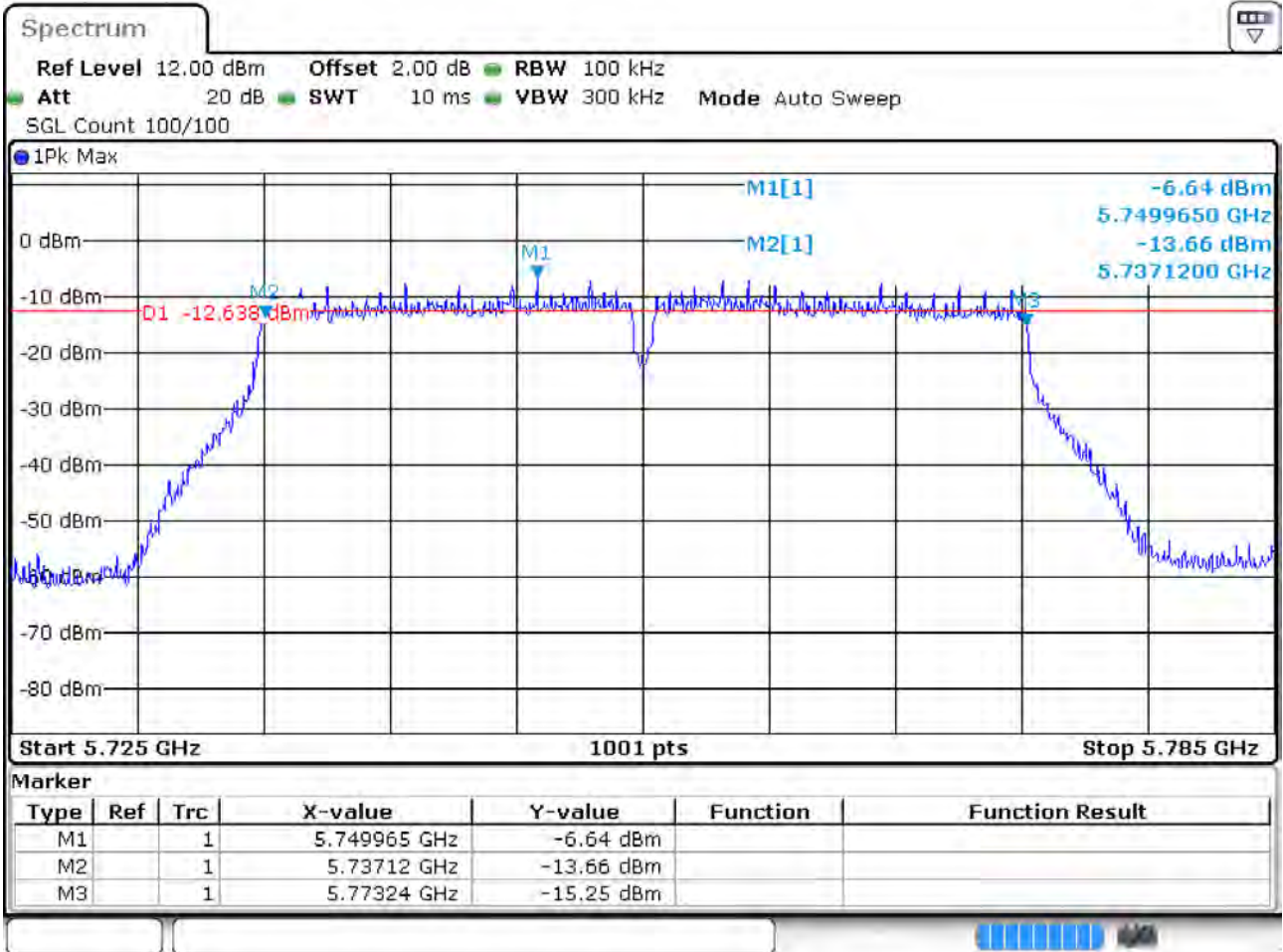
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4.6.2.18 11N40MIMO_151 ANT 2



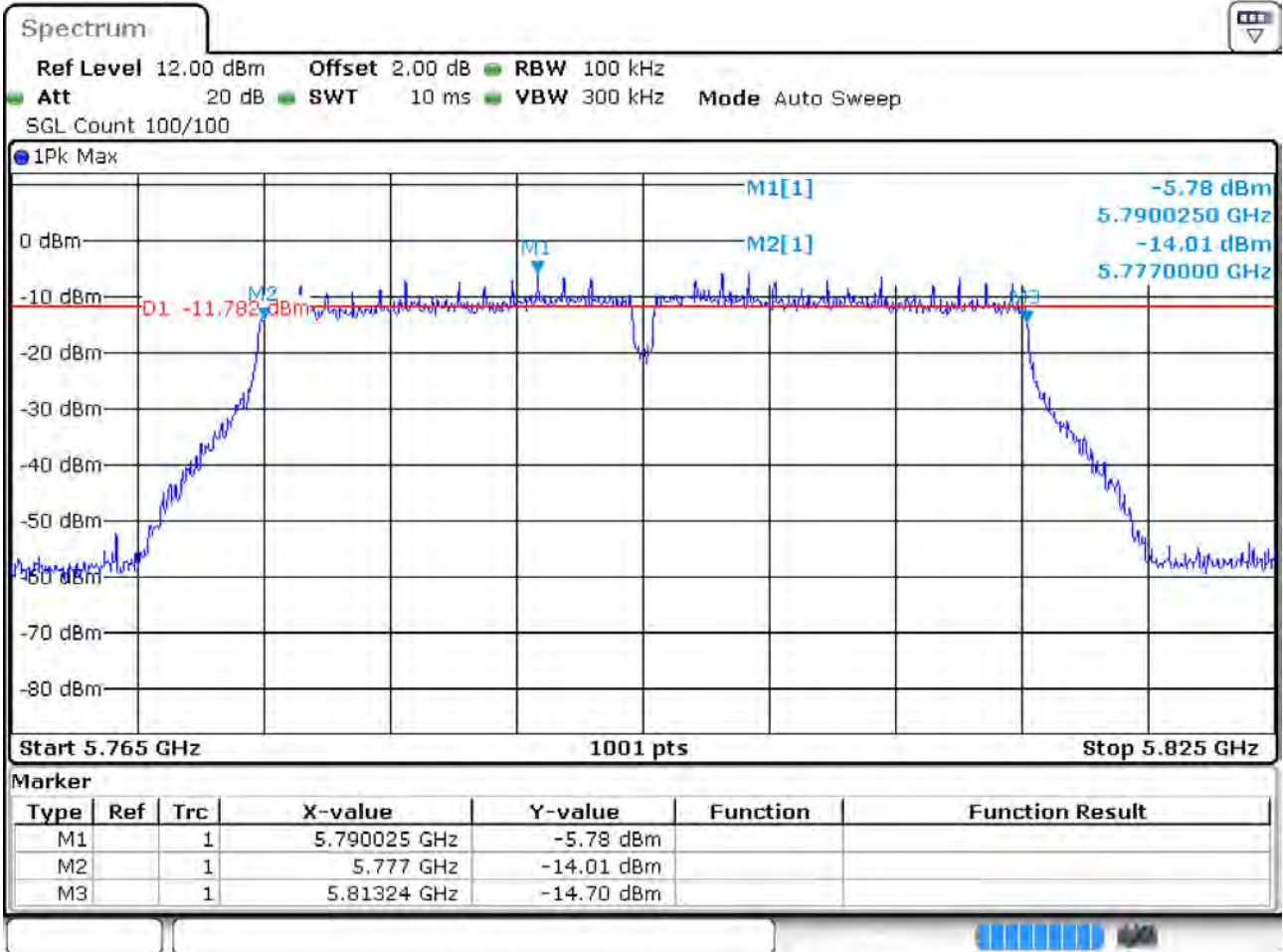
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4.6.2.19 11N40MIMO_159 ANT 1

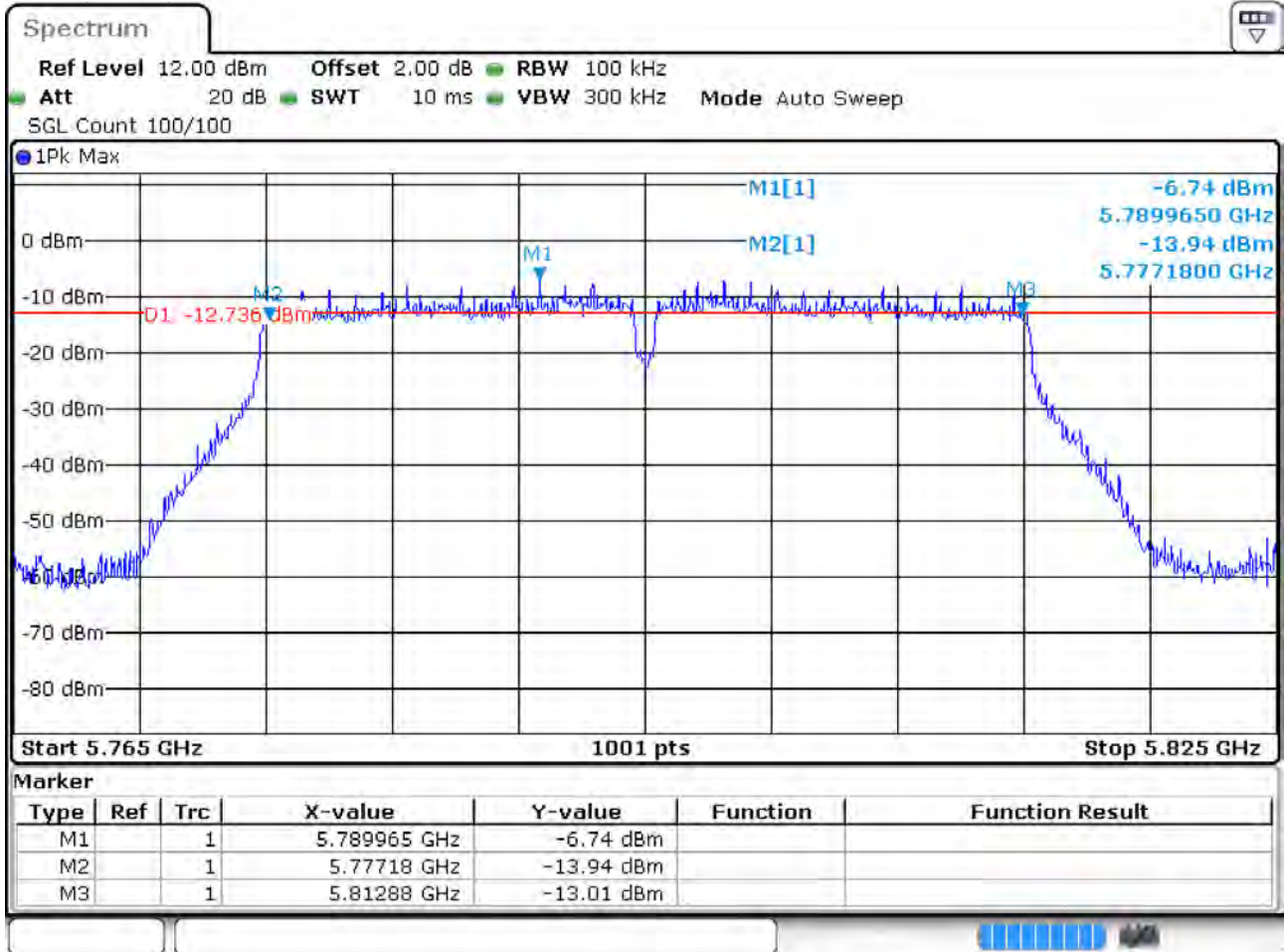


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4.6.2.20 11N40MIMO_159 ANT 2



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4.6.2.21 11AC20_149 ANT 1

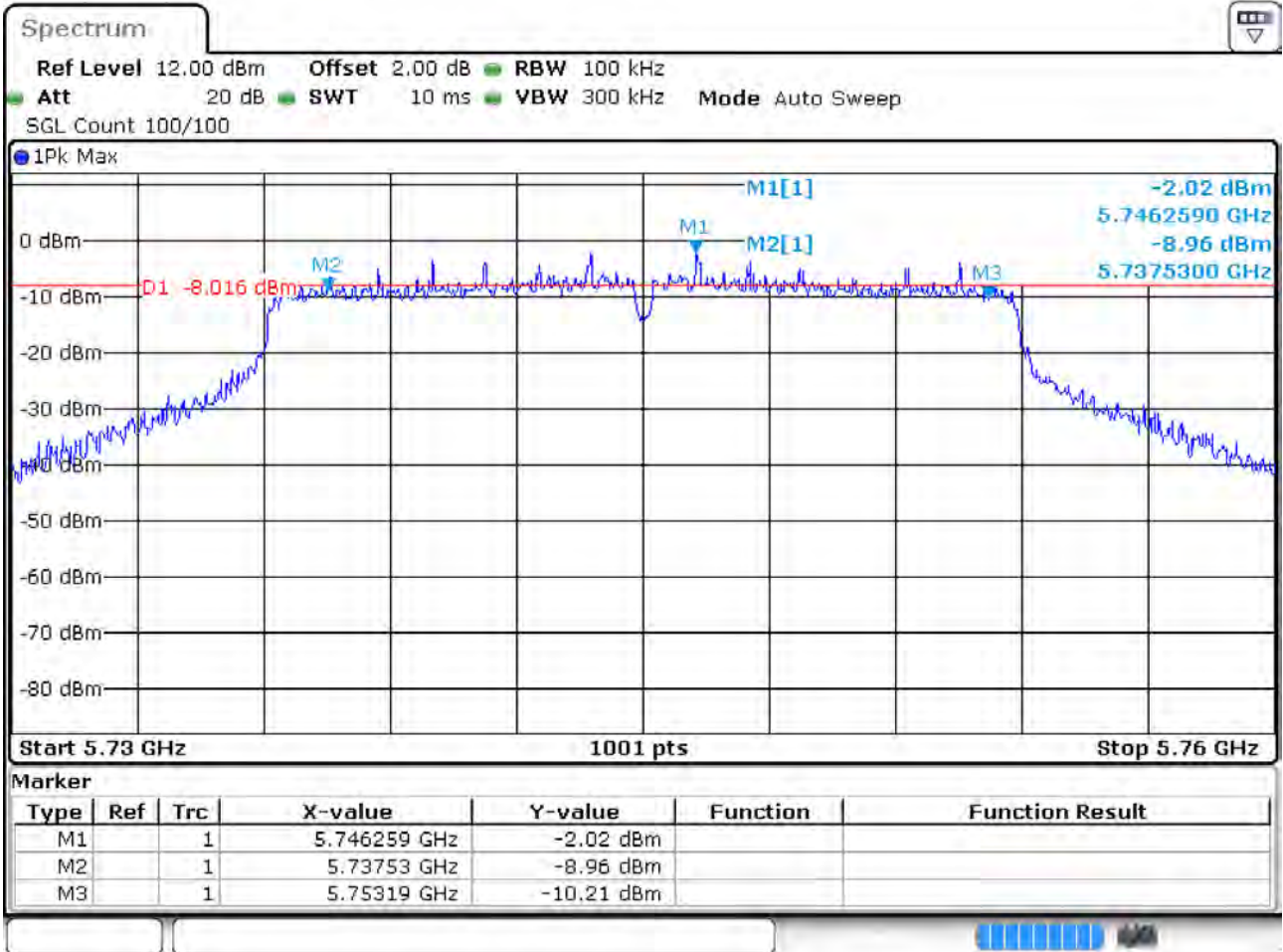


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4.6.2.22 11AC20_149 ANT 2



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4.6.2.23 11AC20_165 ANT 1



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4.6.2.24 11AC20_165 ANT 2

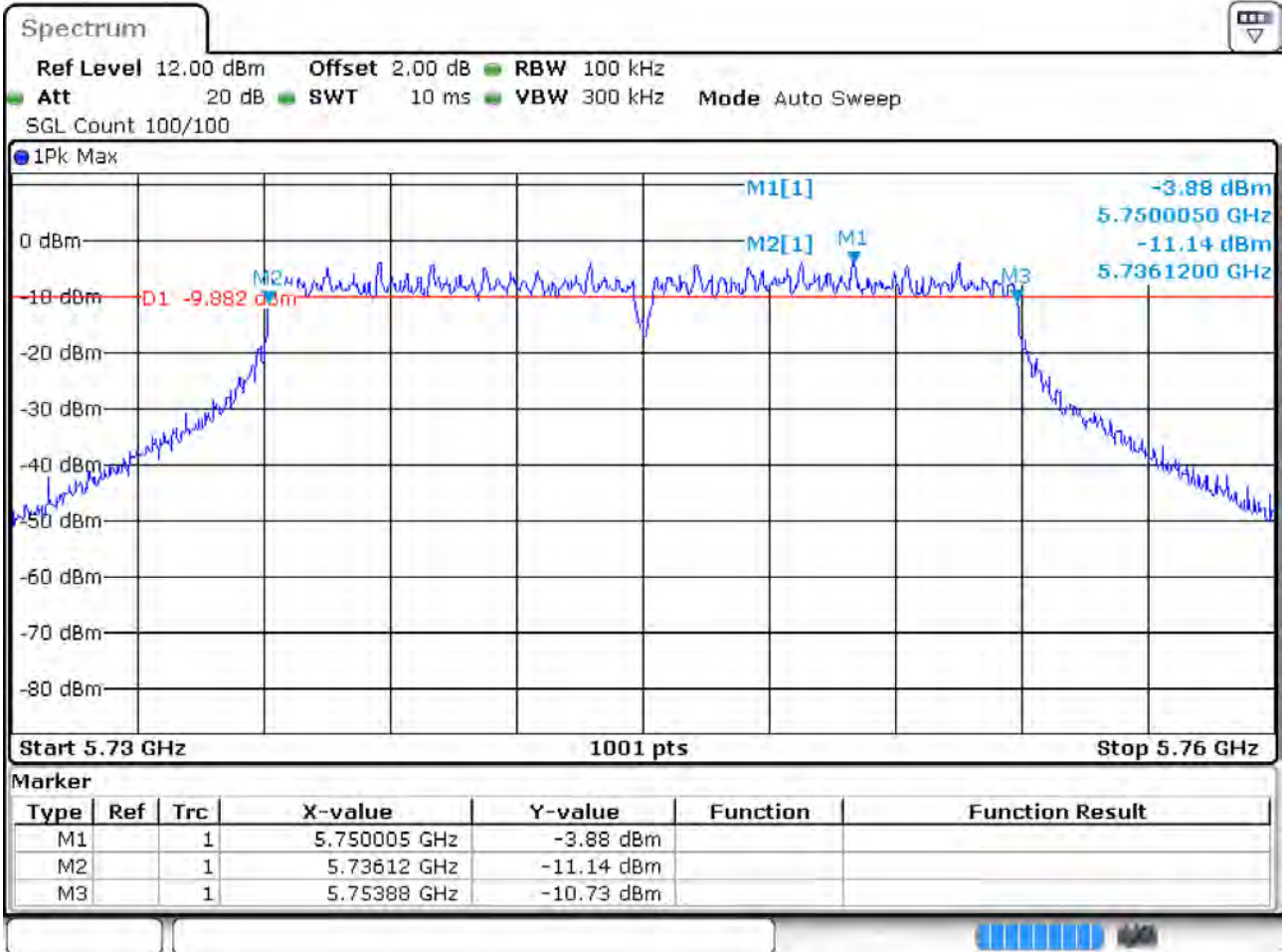


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4.6.2.25 11AC20MIMO_149 ANT 1



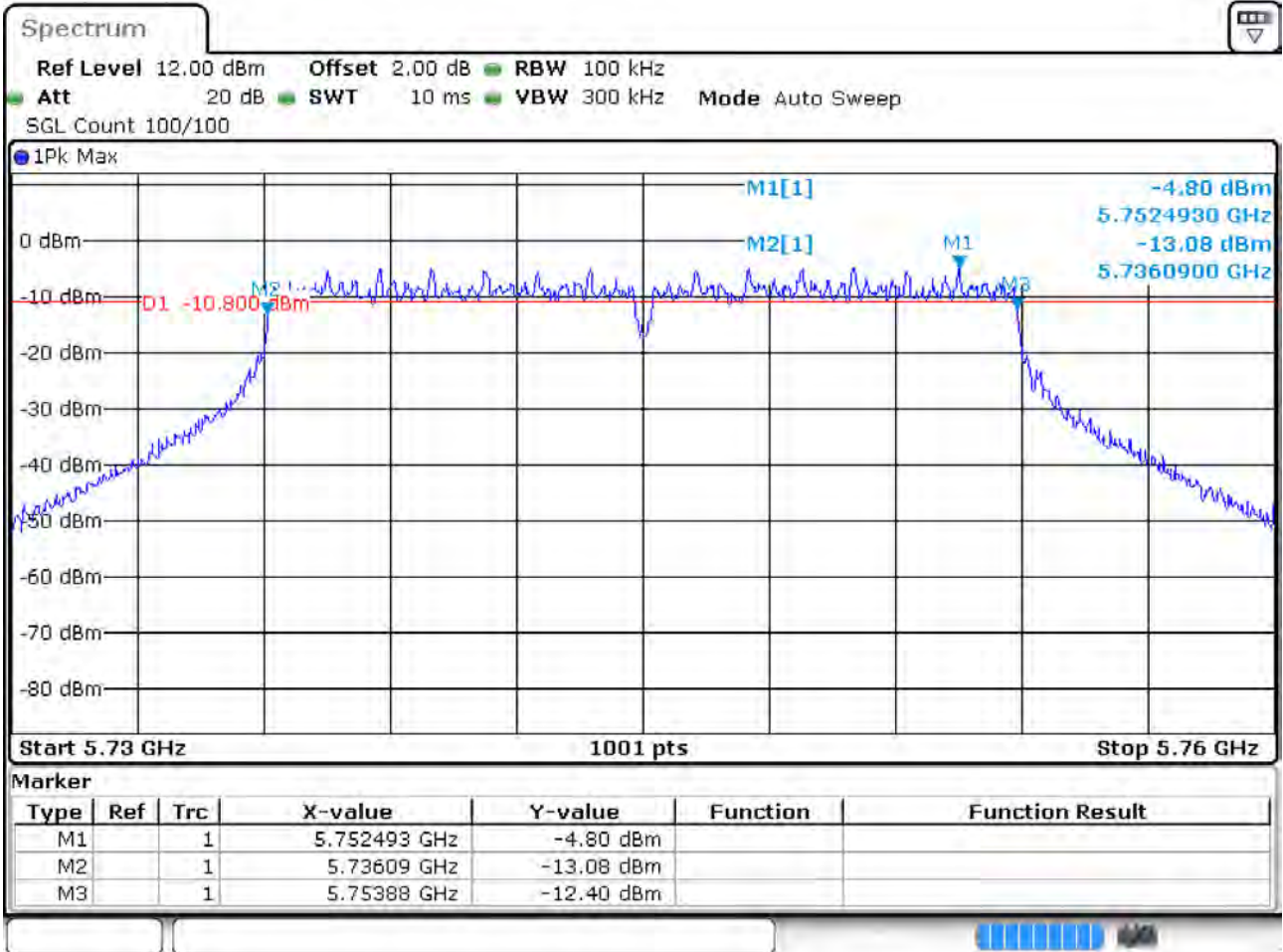
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4.6.2.26 11AC20MIMO_149 ANT 2

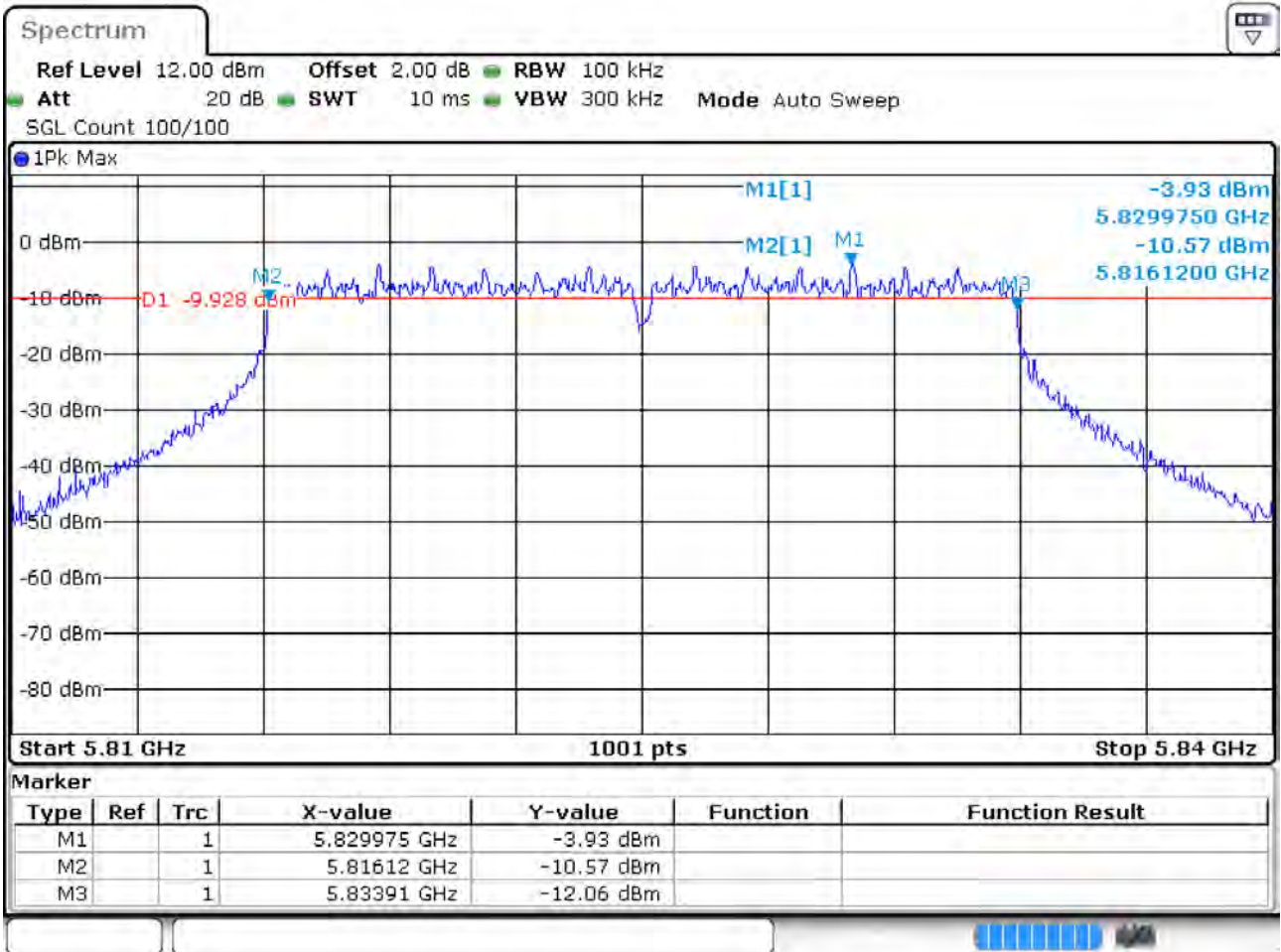


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4.6.2.27 11AC20MIMO_165 ANT 1



Date: 30 JUL 2019 07:19:32

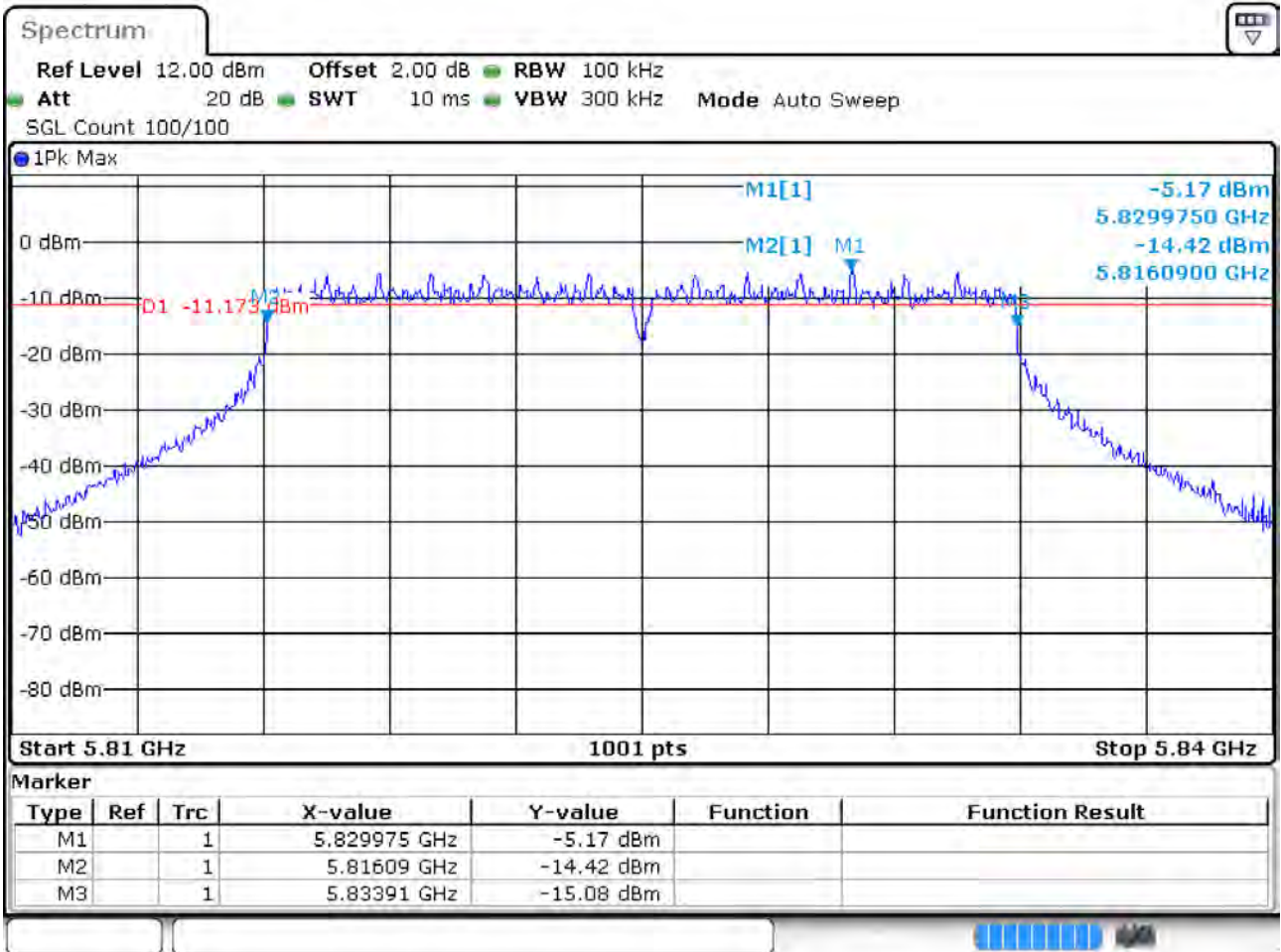


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4.6.2.28 11AC20MIMO_165 ANT 2

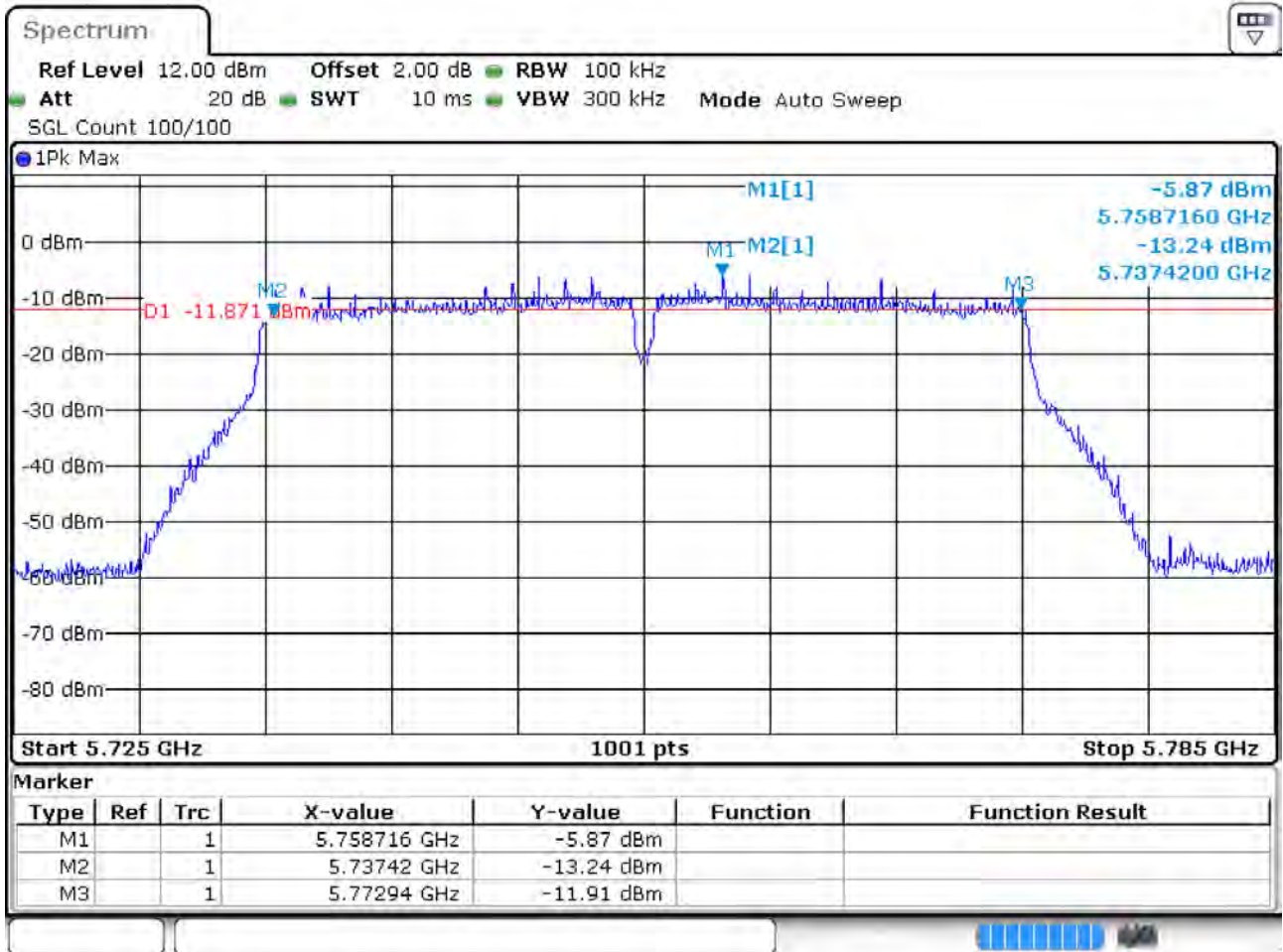


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4.6.2.29 11AC40_151 ANT 1

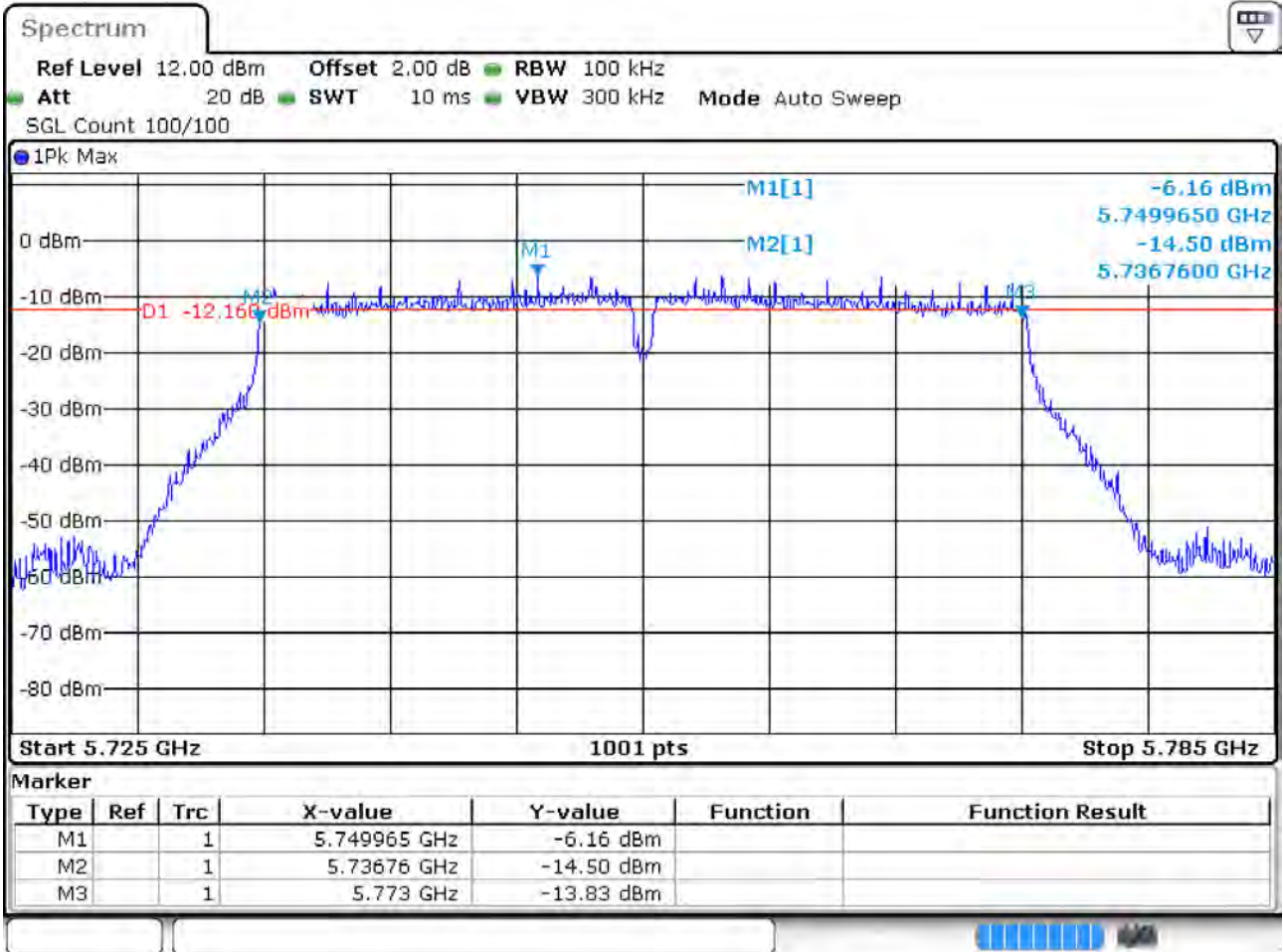


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4.6.2.30 11AC40_151 ANT 2

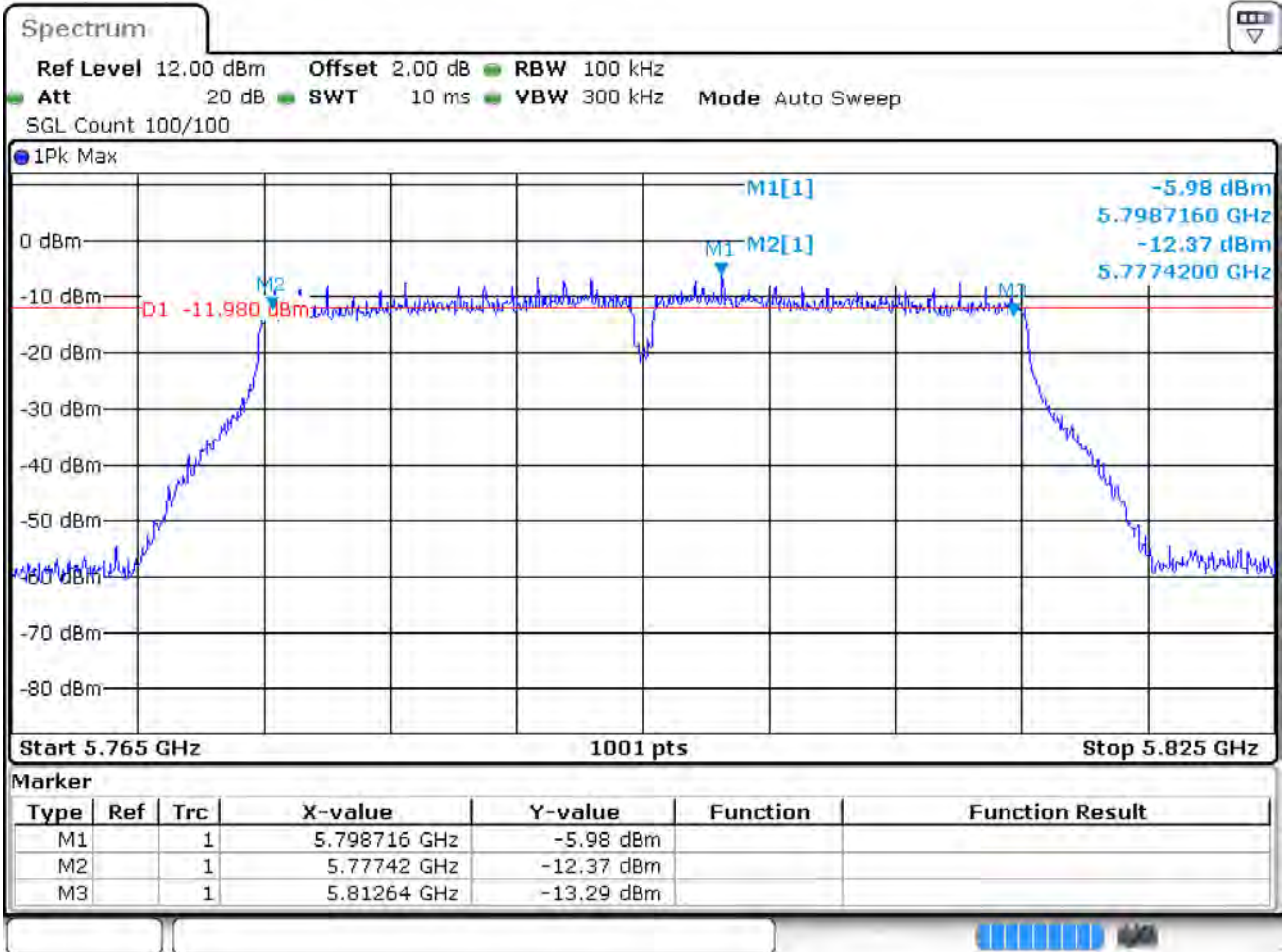


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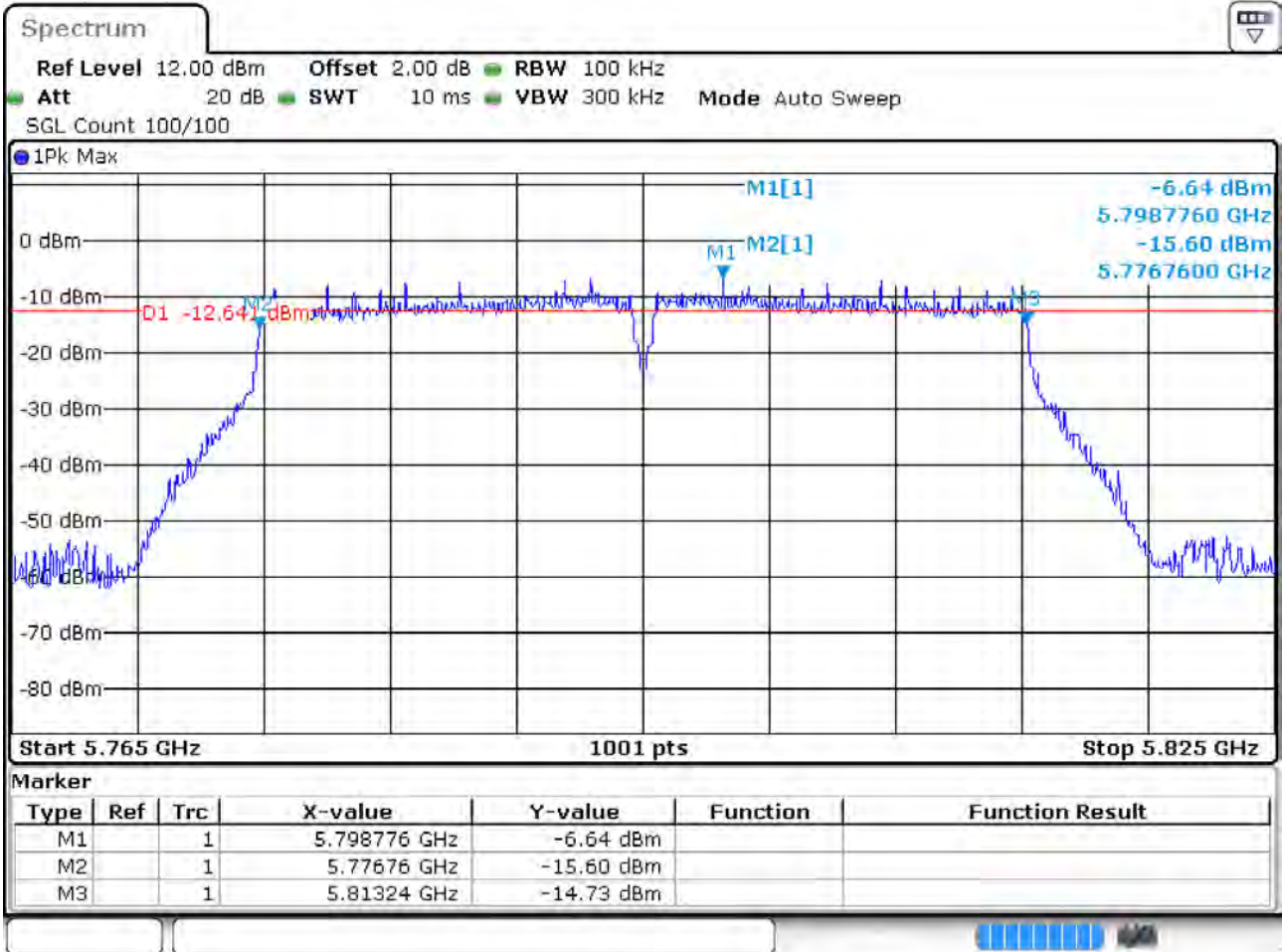
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Date: 30 JUL 2019 03:11:33



4.6.2.32 11AC40_159 ANT 2



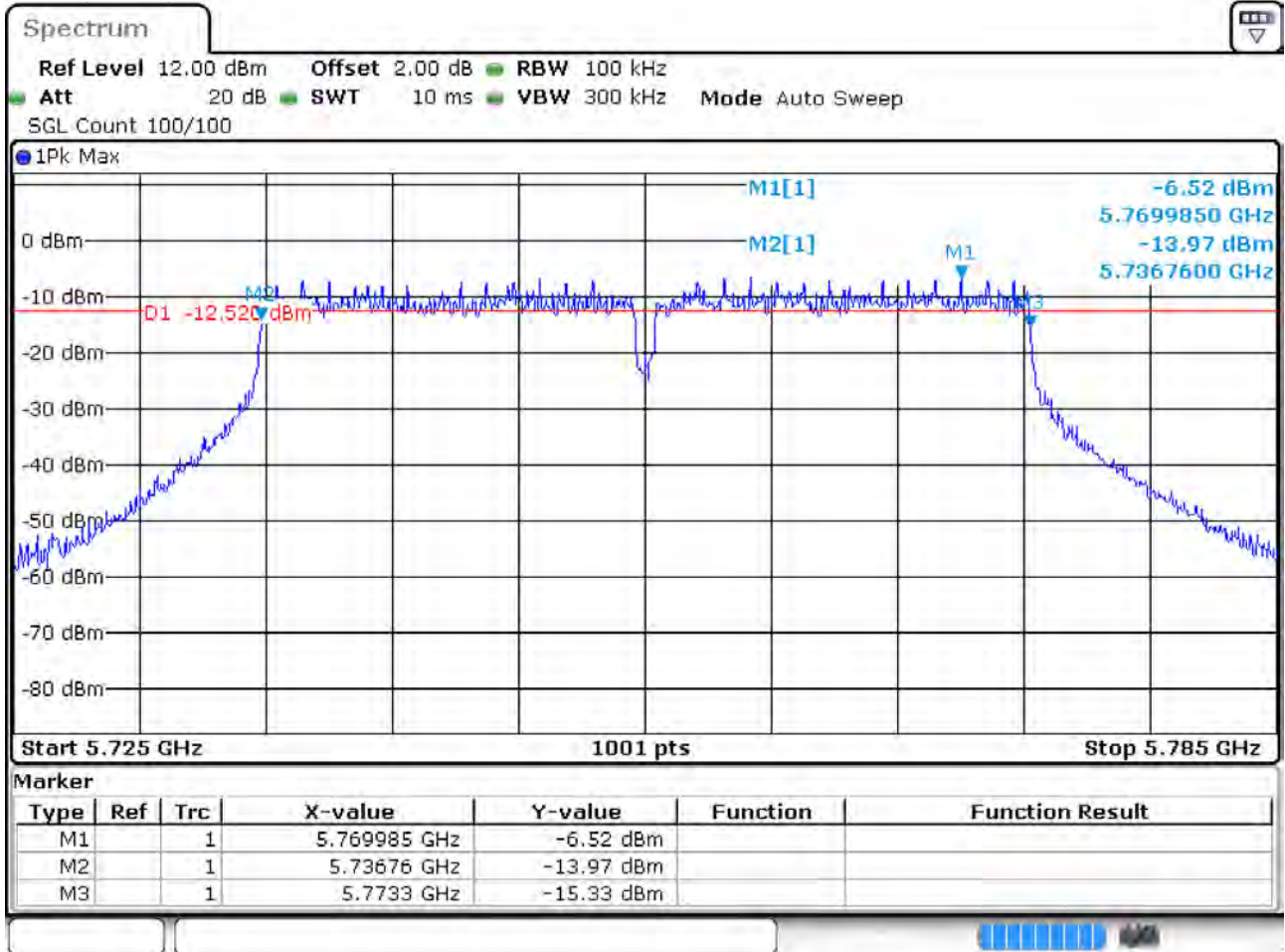
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4.6.2.33 11AC40MIMO_151 ANT 1

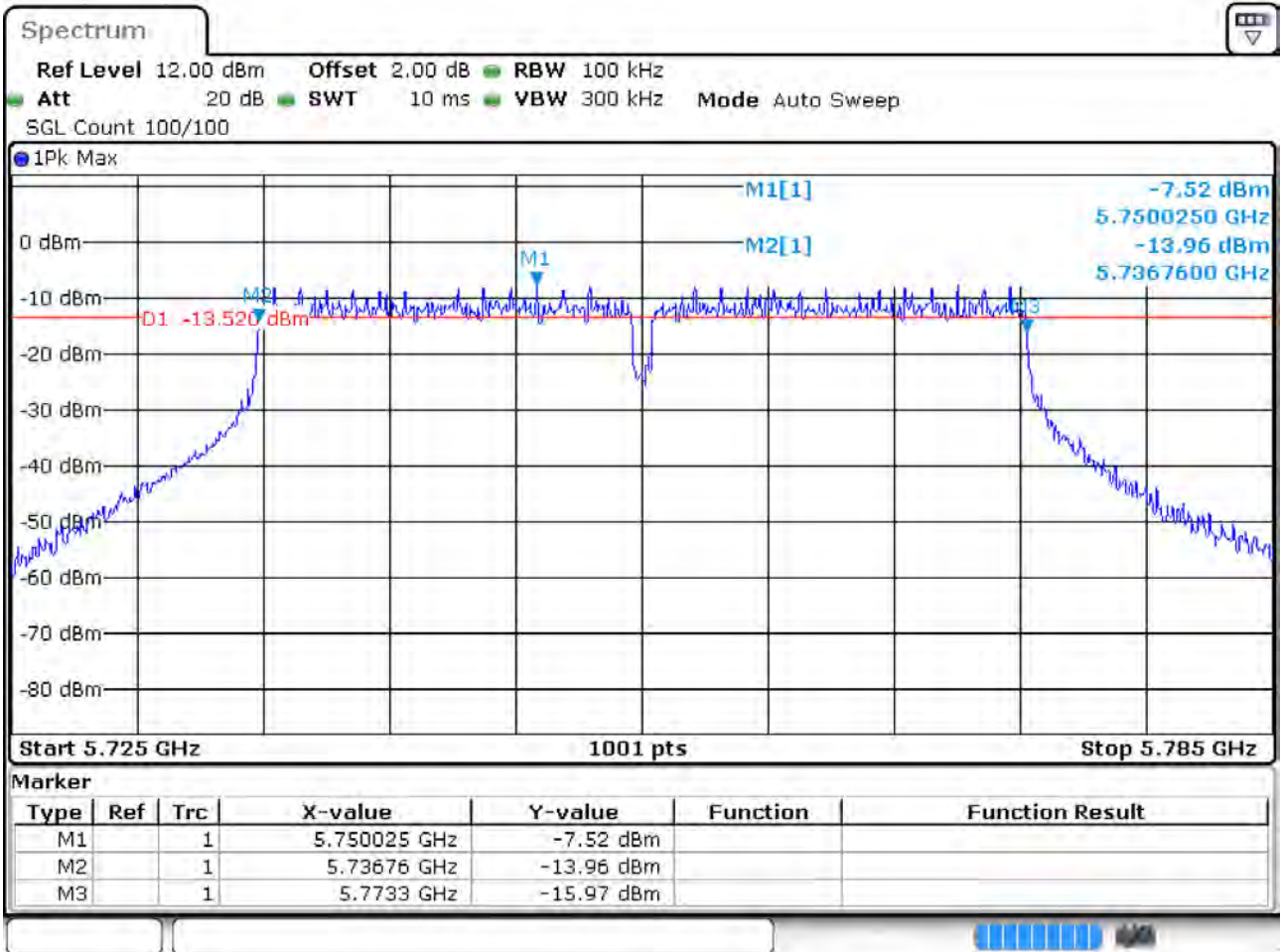


Date: 30 JUL 2019 20:52:43



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4.6.2.34 11AC40MIMO_151 ANT 2

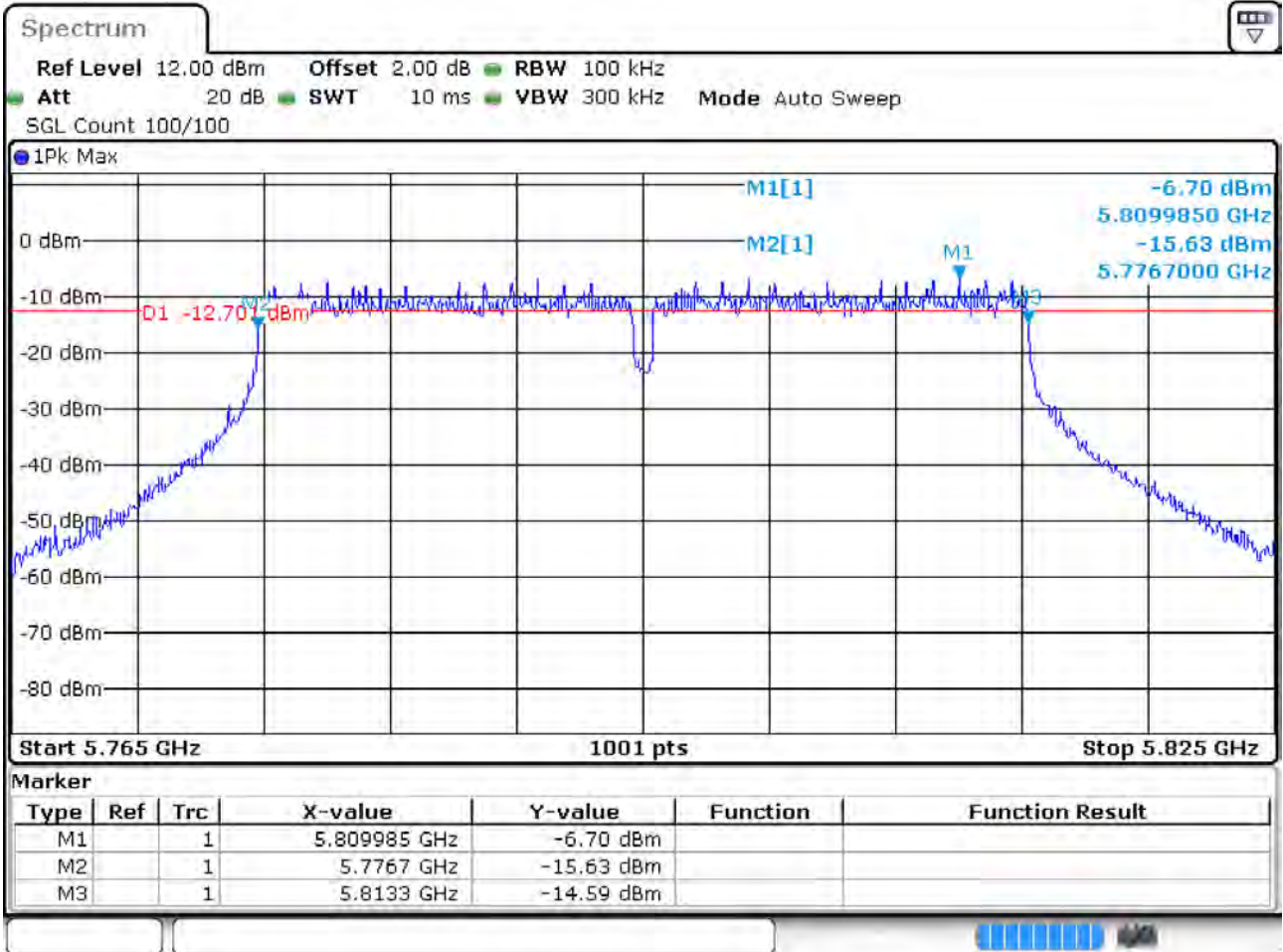


Date: 30.JUL.2019 20:22:37



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4.6.2.35 11AC40MIMO_159 ANT 1

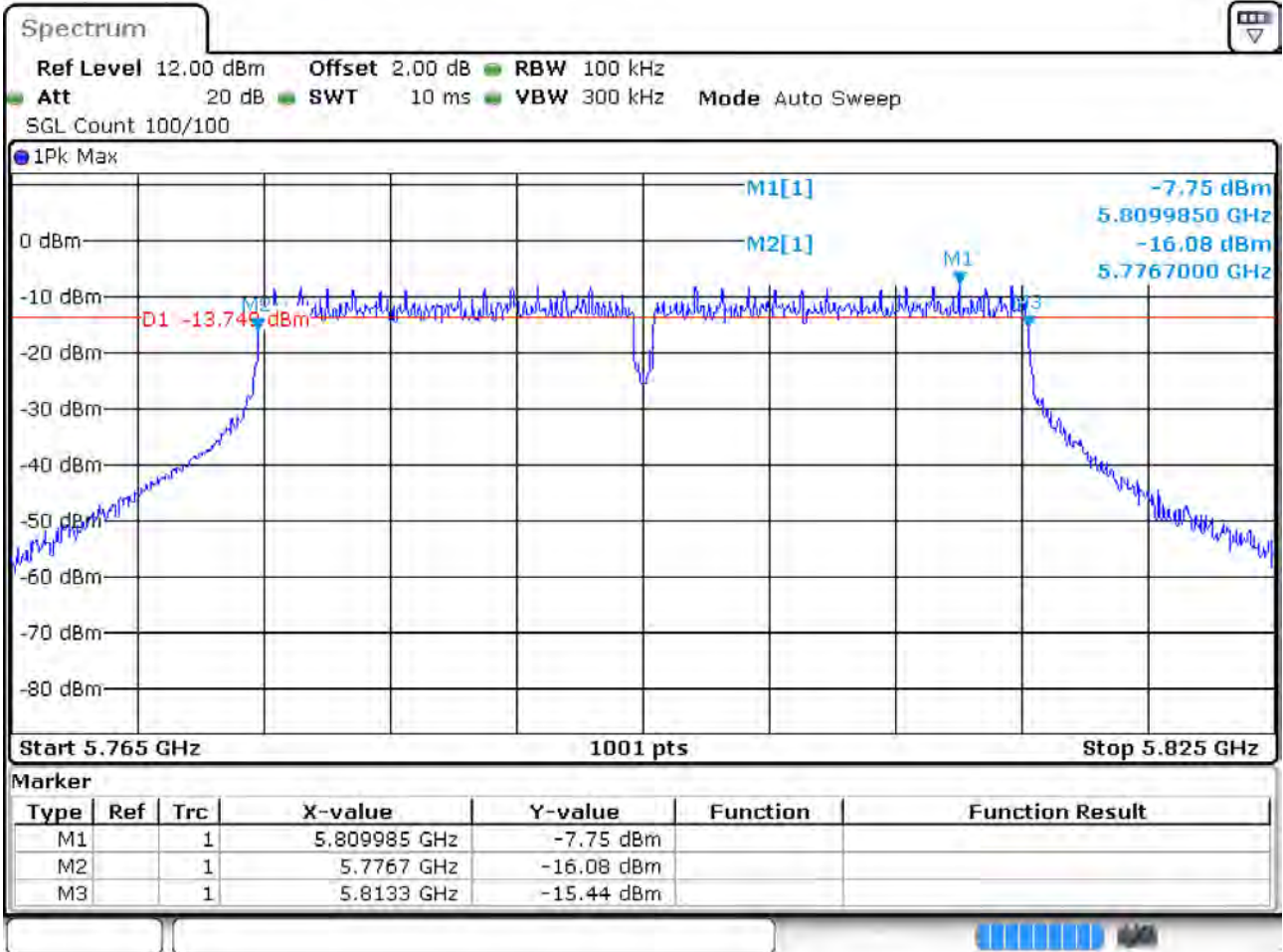


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4.6.2.36 11AC40MIMO_159 ANT 2



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4.6.2.37 11AC80_155 ANT 1



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4.6.2.38 11AC80_155 ANT 2



Date: 30 JUL 2019 03:58:10

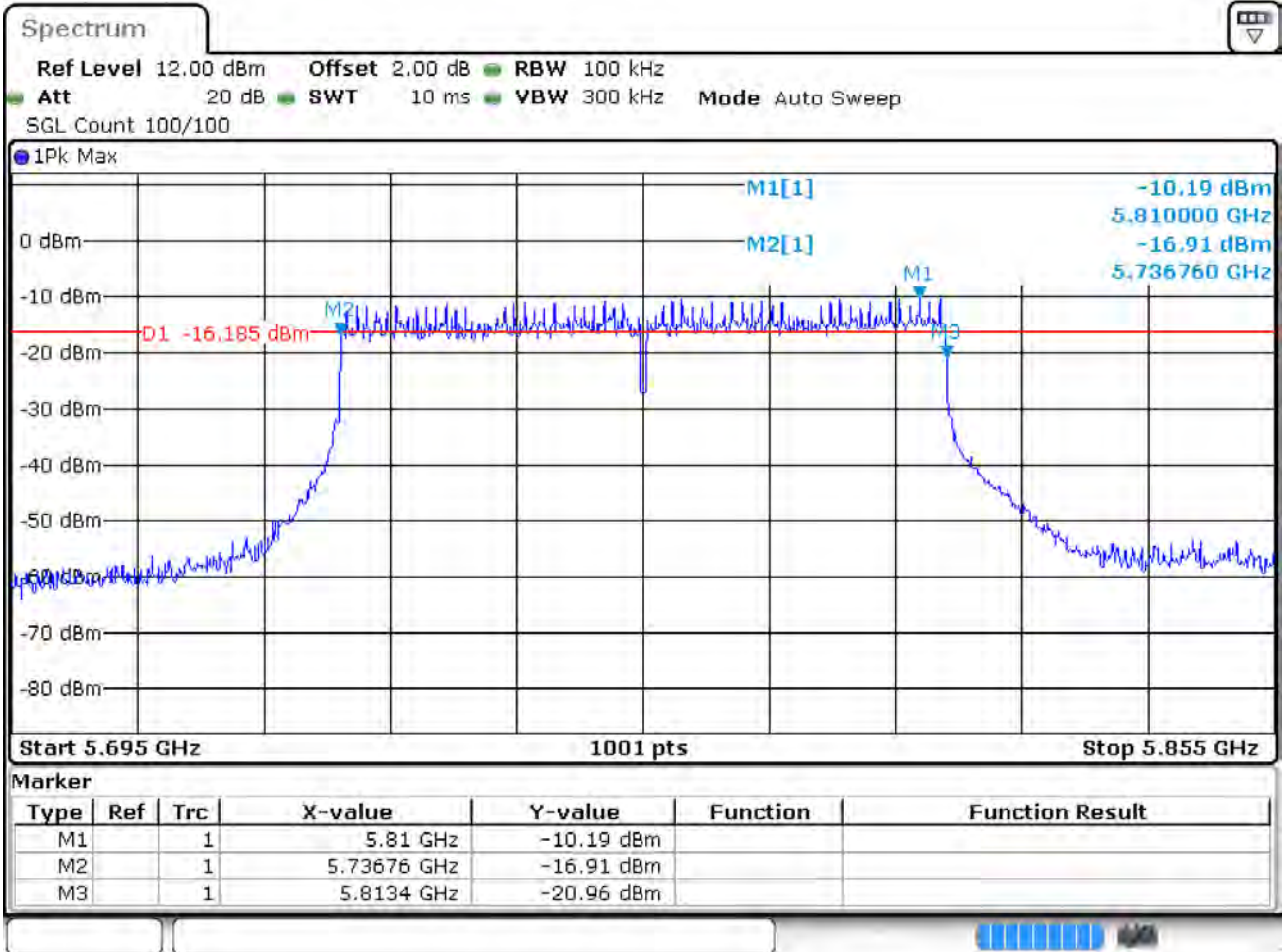


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4.6.2.39 11AC80MIMO_155 ANT 1

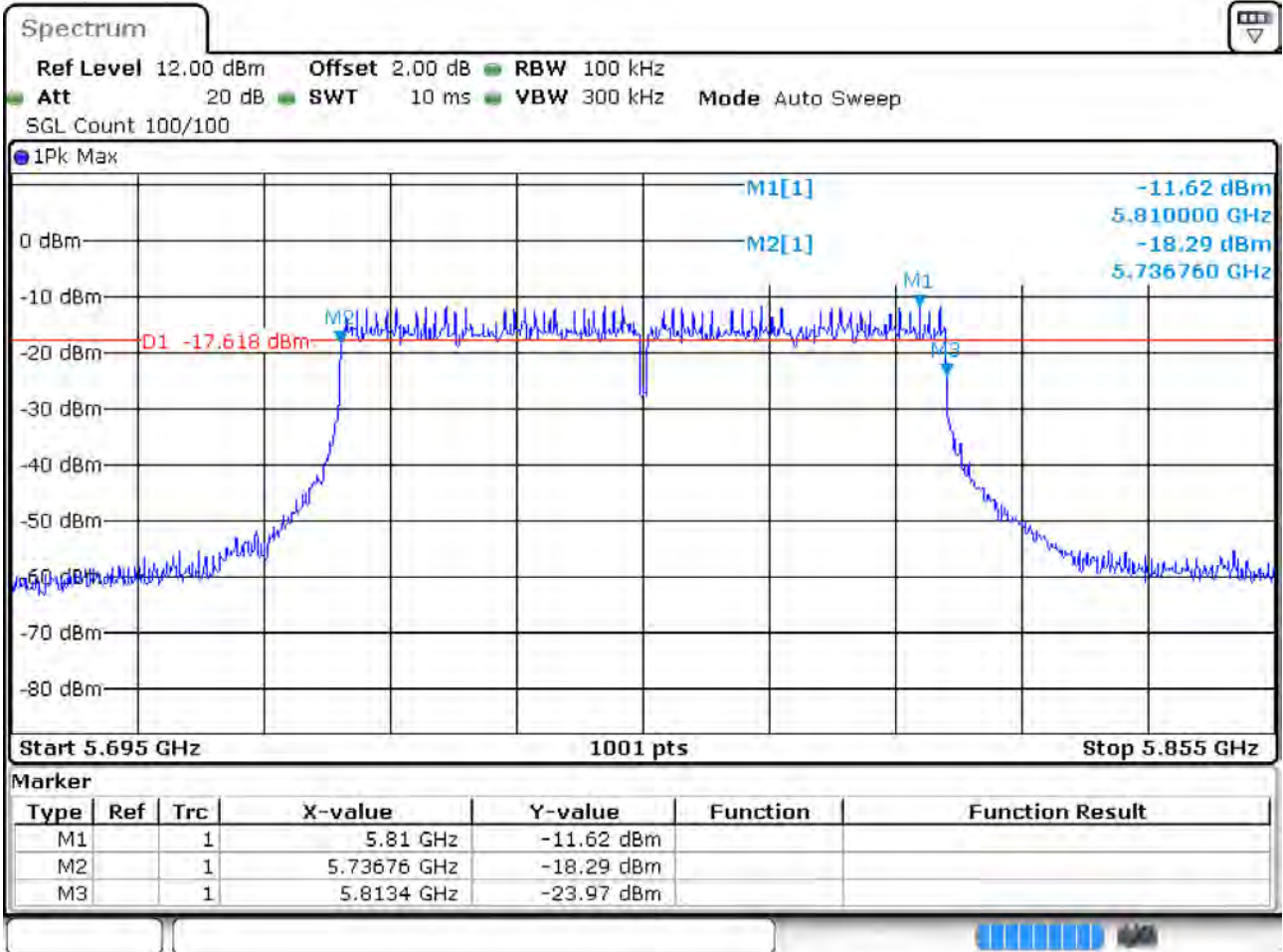


Date: 30 JUL 2019 22:01:52



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4.6.2.40 11AC80MIMO_155 ANT 2



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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:	<p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
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> <ul style="list-style-type: none"> 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); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80). <p>Only the worst case is recorded in the report.</p>
Test Results:	Pass



4.7.1 Test Results For 99% Occupied Bandwidth

Test Mode	Test Channel	Frequency [MHz]			Verdict
			ANT 1	ANT 2	
11A20	36	5180	16.7832	16.8132	PASS
	48	5240	16.7832	16.8132	PASS
	52	5260	16.8132	16.8432	PASS
	64	5320	16.8132	16.8432	PASS
	100	5500	16.8432	16.8432	PASS
	140	5700	16.8132	16.8132	PASS
	149	5745	16.8432	16.8132	PASS
	165	5825	16.8731	16.8132	PASS
11N20	36	5180	17.9221	17.952	PASS
	48	5240	17.952	17.982	PASS
	52	5260	17.952	17.952	PASS
	64	5320	17.952	17.952	PASS
	100	5500	17.982	17.952	PASS
	140	5700	17.952	17.952	PASS
	149	5745	17.982	17.952	PASS
	165	5825	17.952	17.952	PASS
11N20 MIMO	36	5180	17.952	17.8621	PASS
	48	5240	17.952	17.8322	PASS
	52	5260	17.982	17.8322	PASS
	64	5320	17.952	17.8322	PASS
	100	5500	17.952	17.8022	PASS
	140	5700	17.982	17.8621	PASS
	149	5745	17.952	17.8621	PASS
	165	5825	17.952	17.8621	PASS
11N40	38	5190	36.3237	36.3836	PASS
	46	5230	36.3237	36.3836	PASS
	54	5270	36.3836	36.3836	PASS
	62	5310	36.3836	36.3237	PASS
	102	5510	36.3836	36.3237	PASS
	134	5670	36.3836	36.3836	PASS
	151	5755	36.3836	36.3836	PASS
	159	5795	36.4436	36.3836	PASS
11N40 MIMO	38	5190	36.3836	36.3237	PASS
	46	5230	36.3237	36.2637	PASS
	54	5270	36.3237	36.3237	PASS
	62	5310	36.3237	36.2637	PASS
	102	5510	36.3836	36.2637	PASS
	134	5670	36.3836	36.2637	PASS
	151	5755	36.3836	36.2637	PASS
	159	5795	36.3836	36.3237	PASS
11AC20	36	5180	17.952	17.952	PASS
	48	5240	17.952	17.952	PASS



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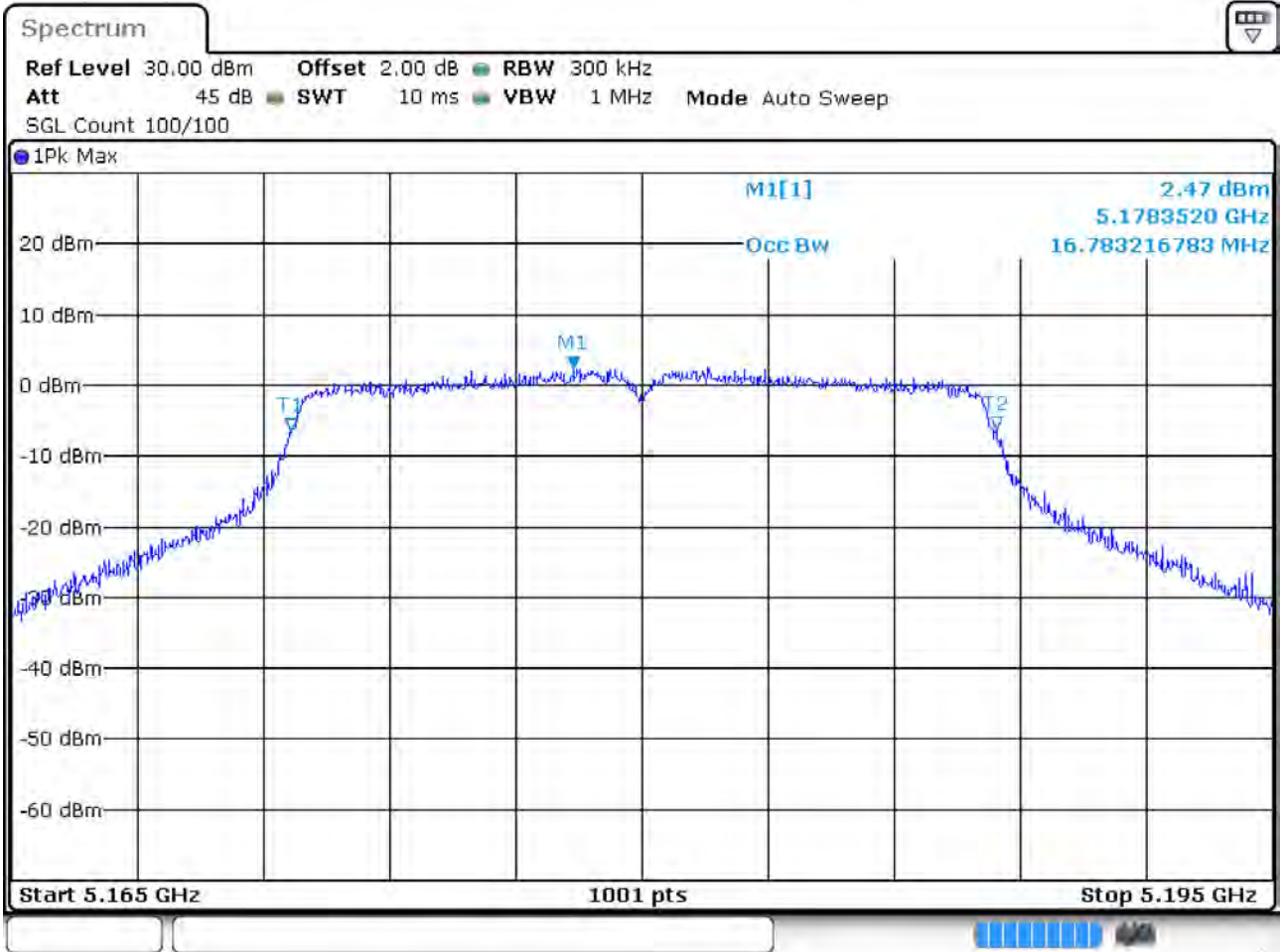
	52	5260	17.952	17.9221	PASS
	64	5320	17.982	17.952	PASS
	100	5500	17.952	17.952	PASS
	140	5700	17.952	17.952	PASS
	149	5745	17.952	17.952	PASS
	165	5825	17.982	17.982	PASS
11AC20 MIMO	36	5180	17.982	17.982	PASS
	48	5240	17.952	17.952	PASS
	52	5260	17.952	17.952	PASS
	64	5320	17.9221	17.952	PASS
	100	5500	17.952	17.9221	PASS
	140	5700	17.952	17.982	PASS
	149	5745	17.982	17.952	PASS
	165	5825	18.012	17.9221	PASS
11AC40	38	5190	36.3836	36.3836	PASS
	46	5230	36.3836	36.3836	PASS
	54	5270	36.3836	36.3237	PASS
	62	5310	36.3237	36.3836	PASS
	102	5510	36.3836	36.3237	PASS
	134	5670	36.3237	36.4436	PASS
	151	5755	36.3836	36.4436	PASS
	159	5795	36.3836	36.3836	PASS
11AC40 MIMO	38	5190	36.6833	36.6833	PASS
	46	5230	36.6833	36.6833	PASS
	54	5270	36.6234	36.6234	PASS
	62	5310	36.6234	36.6833	PASS
	102	5510	36.6833	36.6234	PASS
	134	5670	36.6833	36.6833	PASS
	151	5755	36.6833	36.6833	PASS
	159	5795	36.6833	36.7433	PASS
11AC80	42	5210	75.6444	75.8841	PASS
	58	5290	75.8841	75.8841	PASS
	106	5530	75.7642	75.7642	PASS
	138	5690	75.8841	76.004	PASS
	155	5775	75.8841	76.1239	PASS
11AC80 MIMO	42	5210	76.4835	76.6034	PASS
	58	5290	76.3636	76.4835	PASS
	106	5530	76.6034	76.6034	PASS
	138	5690	76.6034	76.6034	PASS
	155	5775	76.4835	76.7233	PASS



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4.7.2 Test Plots For 99% Occupied Bandwidth
4.7.2.1 11A20_36 ANT 1

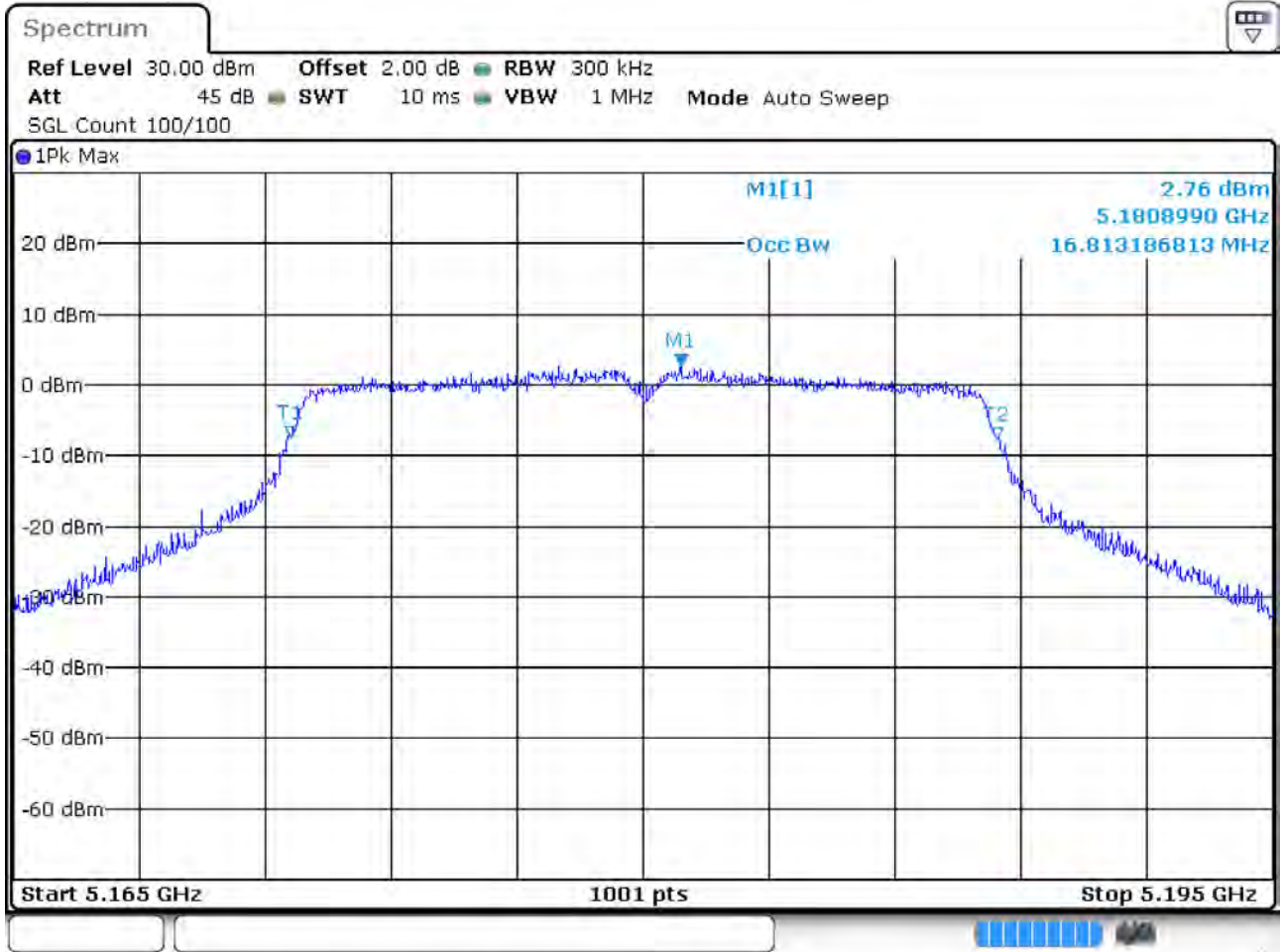


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4.7.2.2 11A20_36 ANT 2

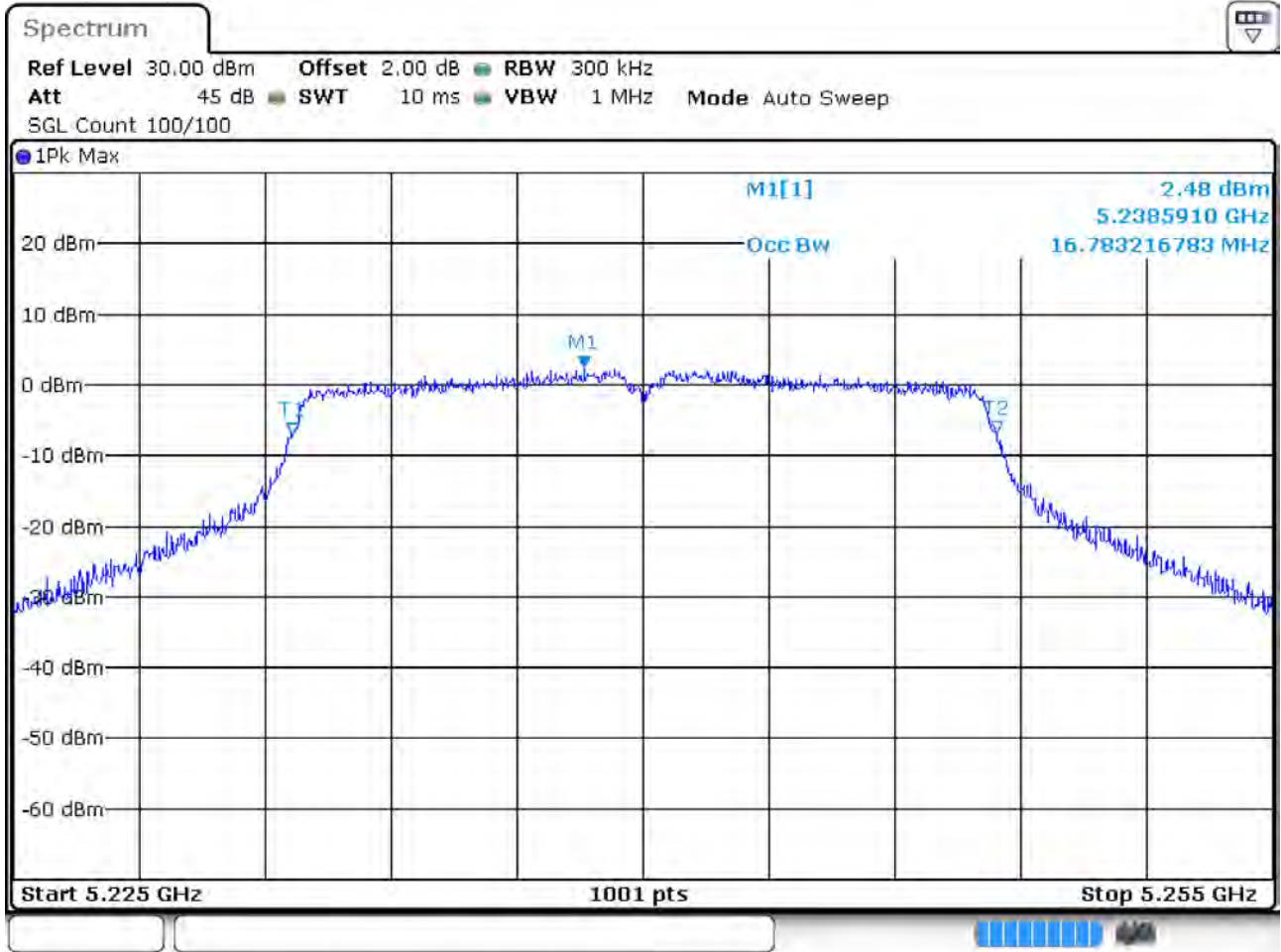


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4.7.2.3 11A20_48 ANT 1

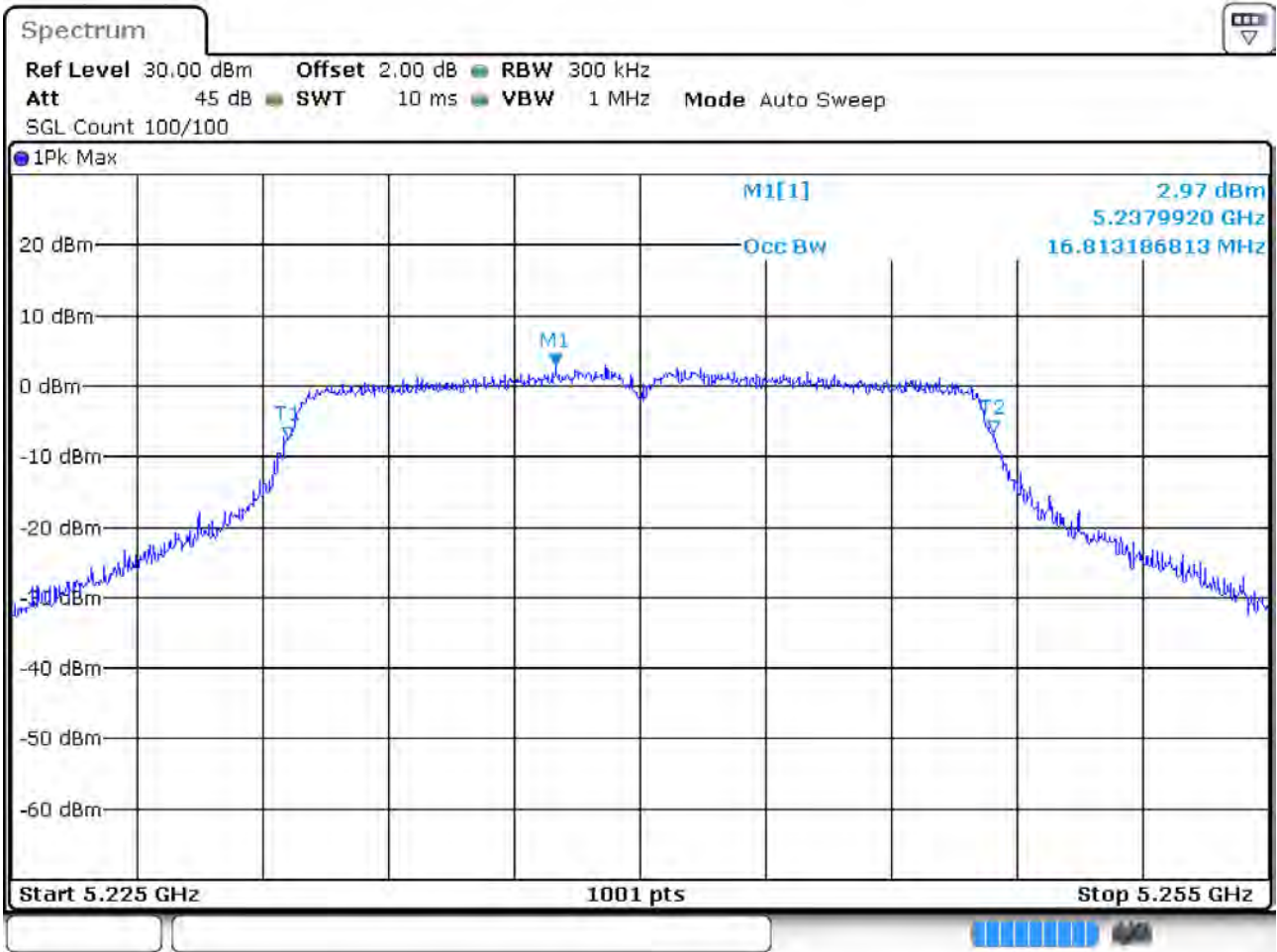


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4.7.2.4 11A20_48 ANT 2

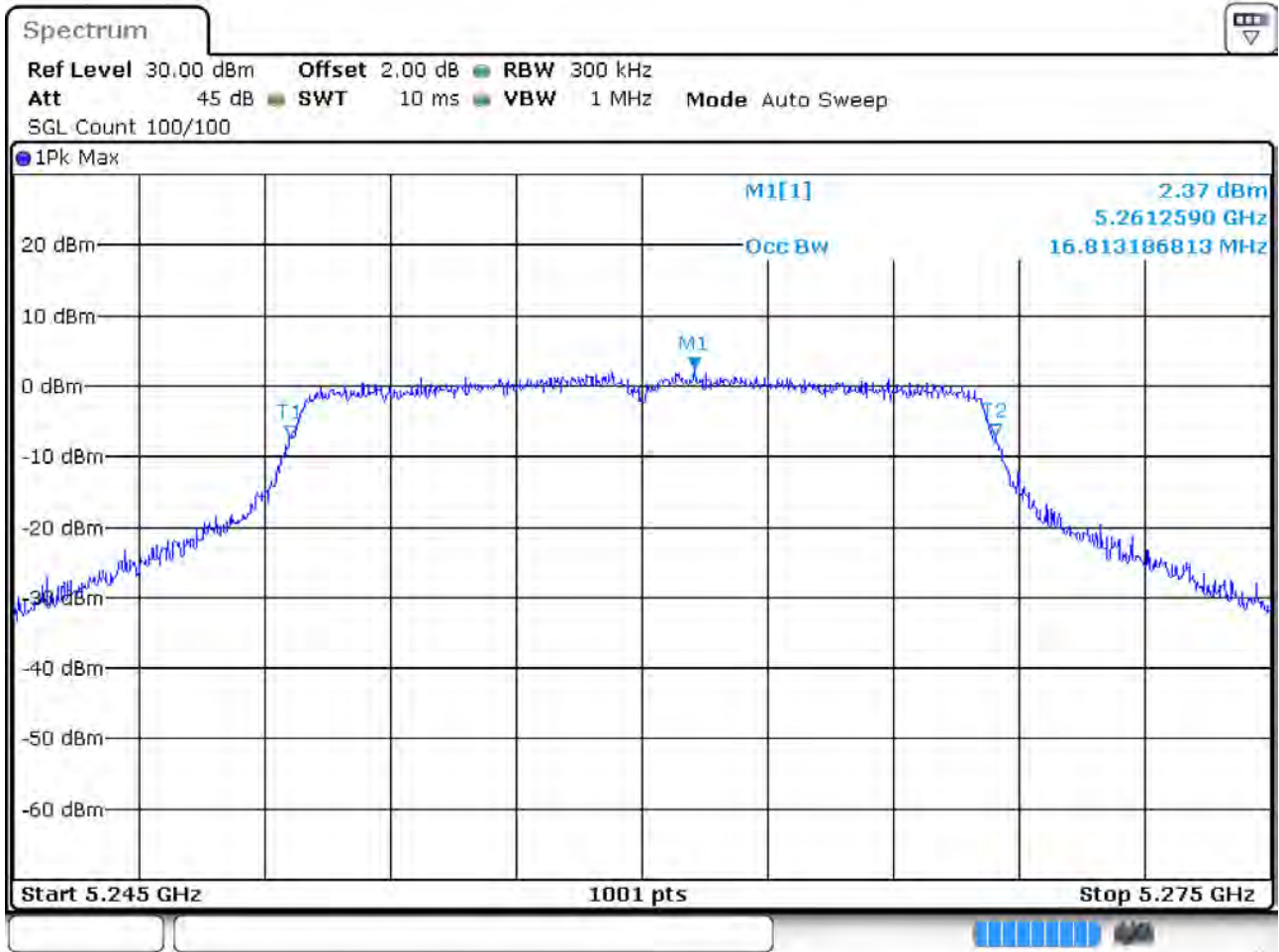


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4.7.2.5 11A20_52 ANT 1

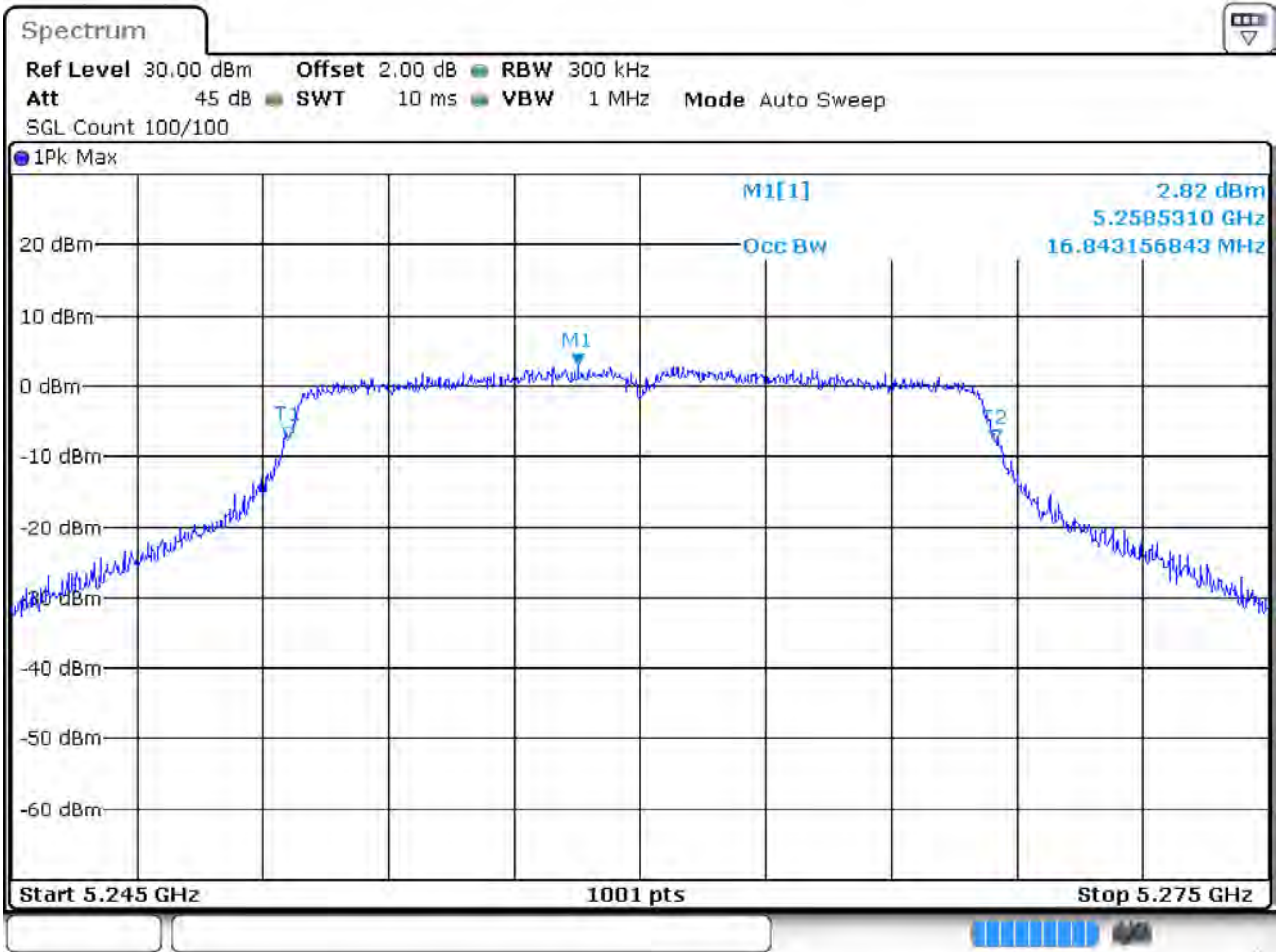


Date: 29 JUL 2019 21:35:48



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4.7.2.6 11A20_52 ANT 2



Date: 29 JUL 2019 22:11:38

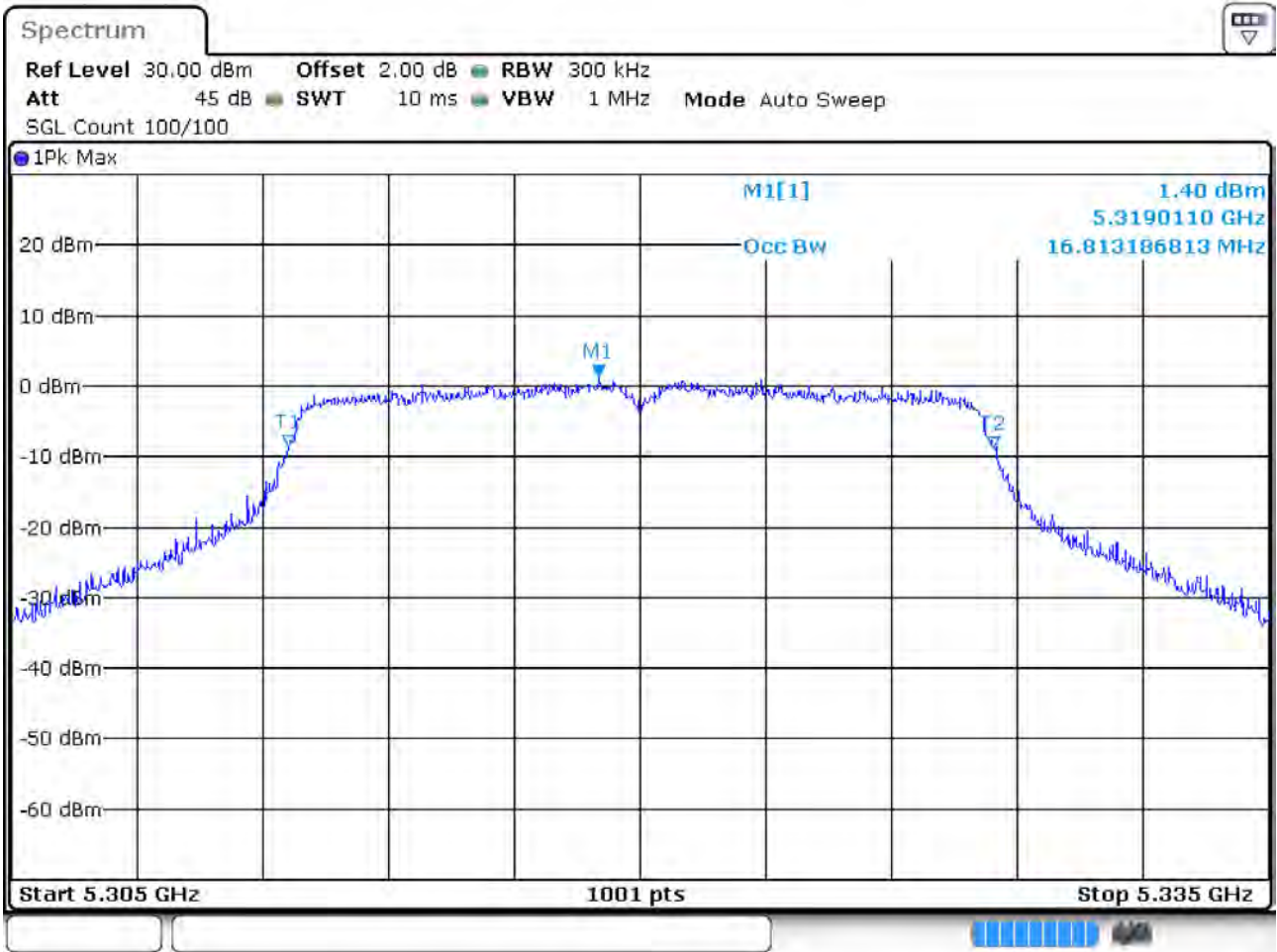


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4.7.2.7 11A20_64 ANT 1

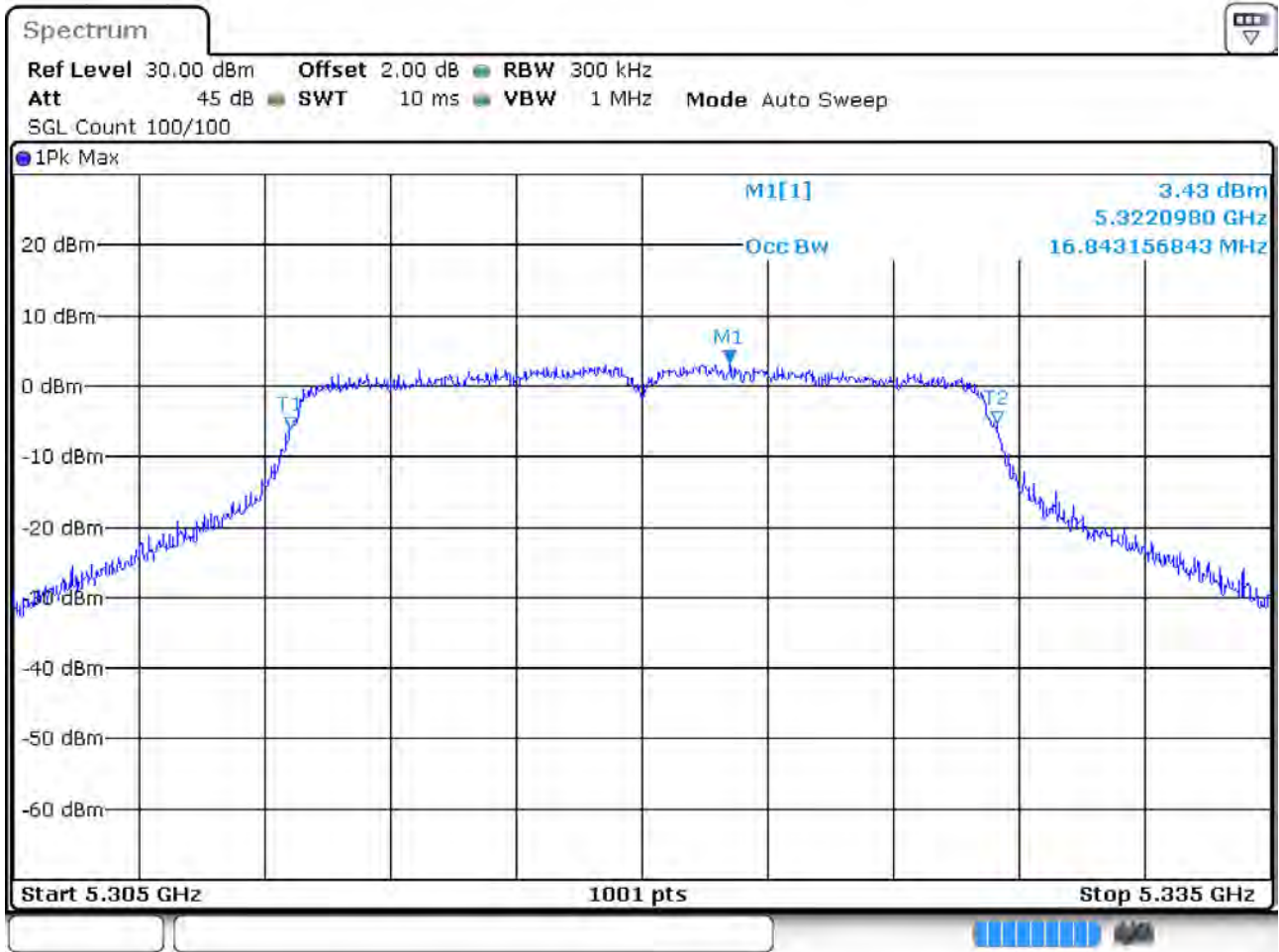


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4.7.2.8 11A20_64 ANT 2

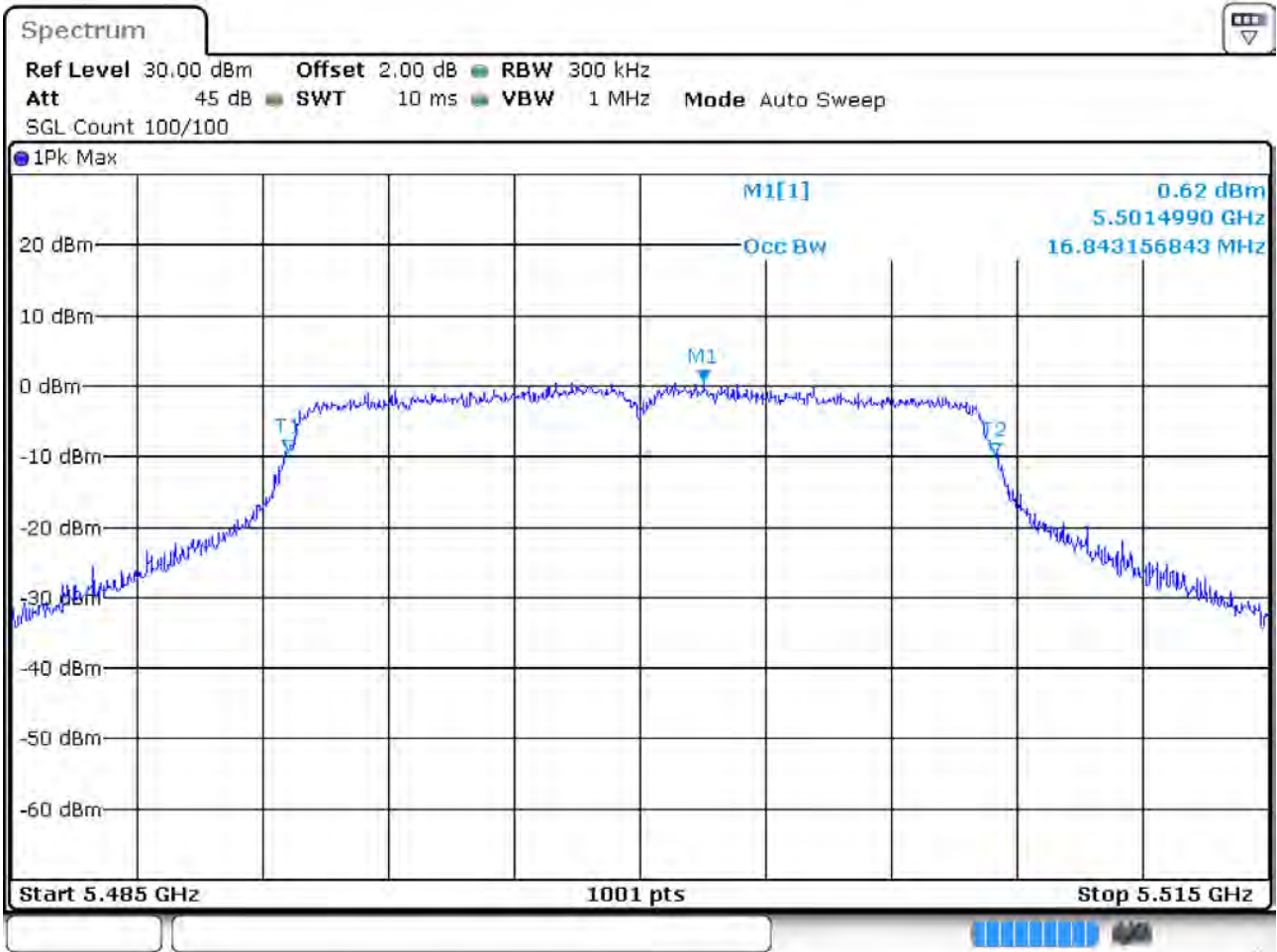


Date: 29 JUL 2019 22:18:11



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4.7.2.9 11A20_100 ANT 1



Date: 29 JUL 2019 21:43:18

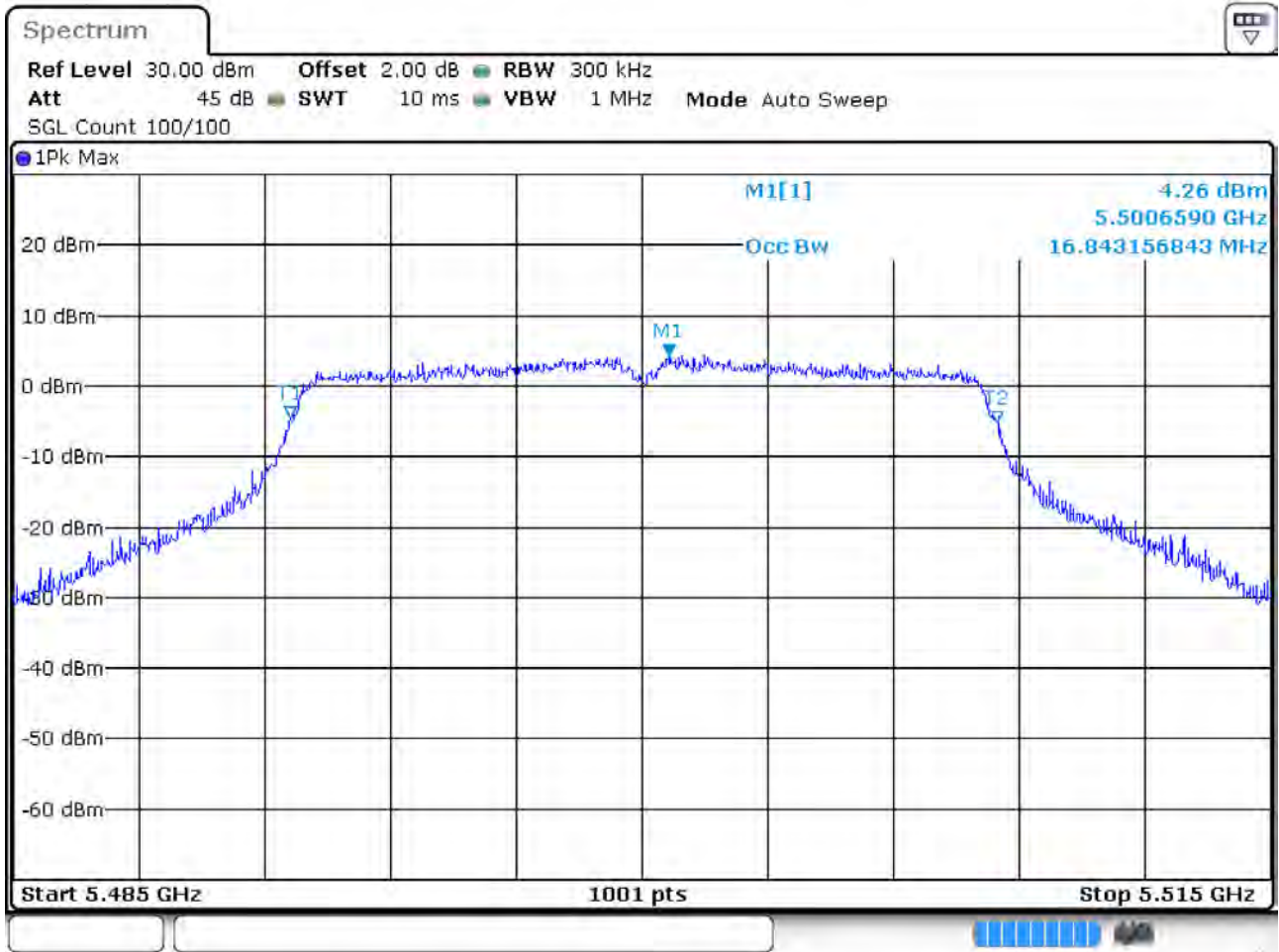


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4.7.2.10 11A20_100 ANT 2



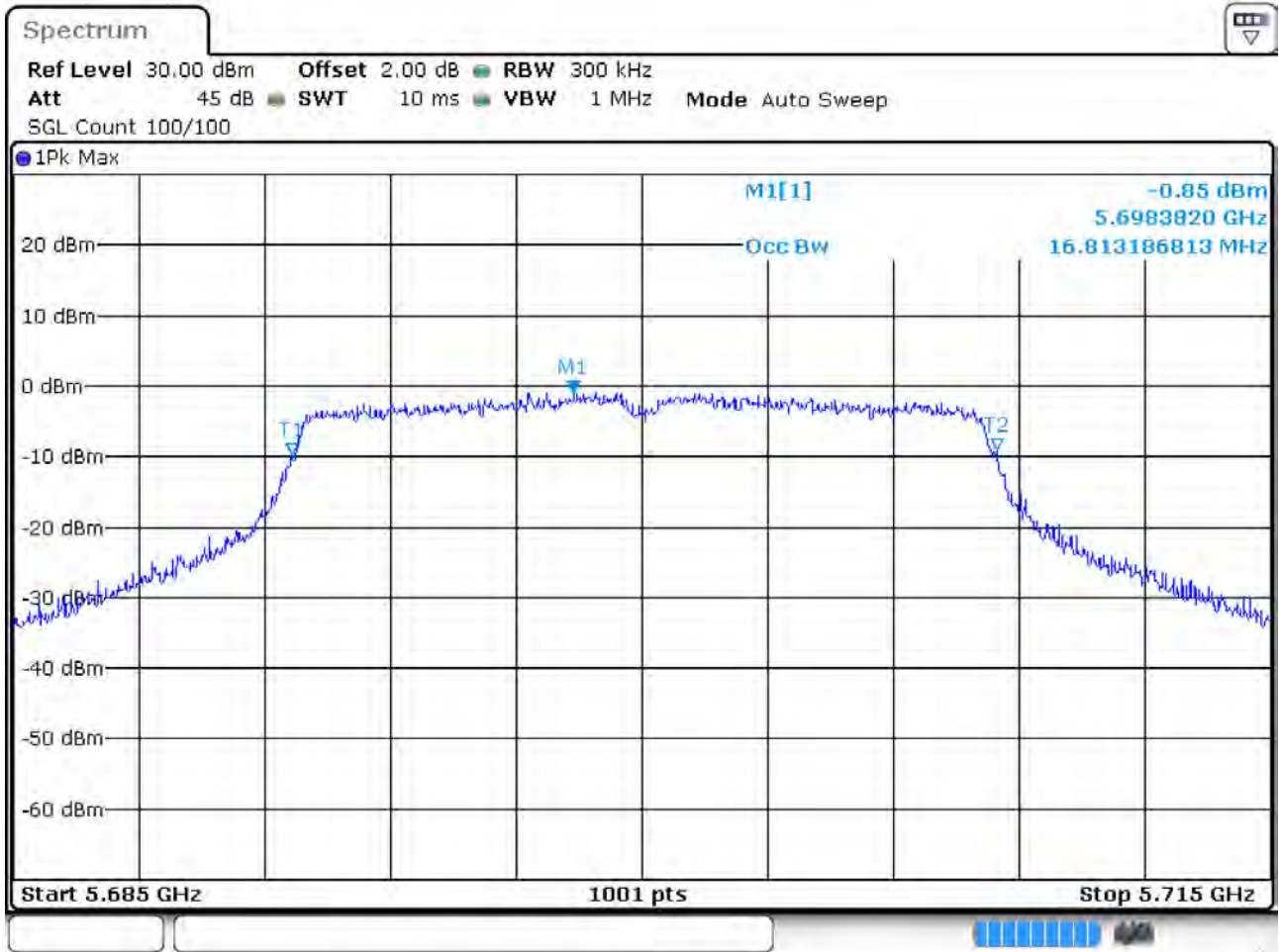
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4.7.2.11 11A20_140 ANT 1

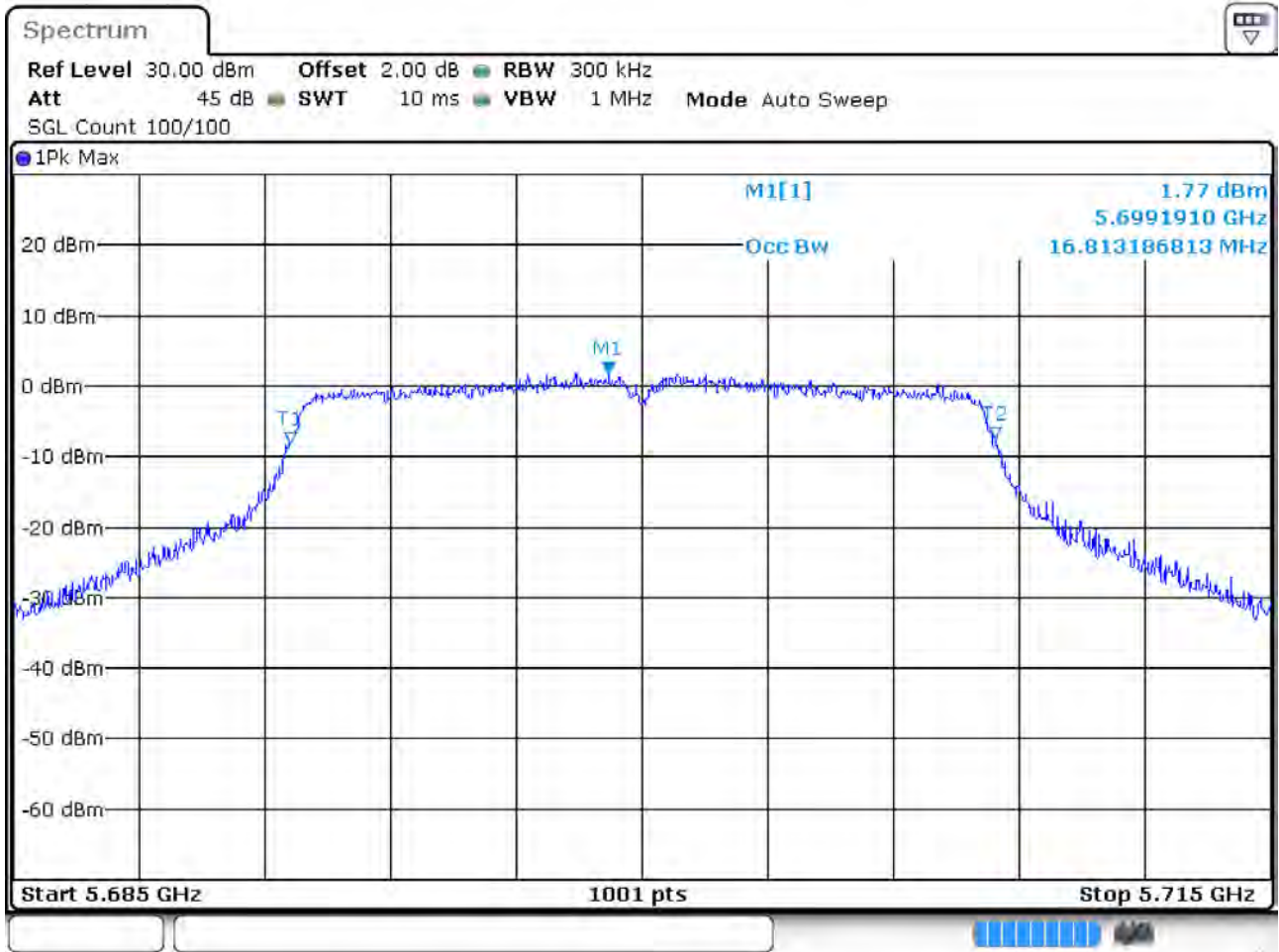


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4.7.2.12 11A20_140 ANT 2



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4.7.2.13 11A20_149 ANT 1

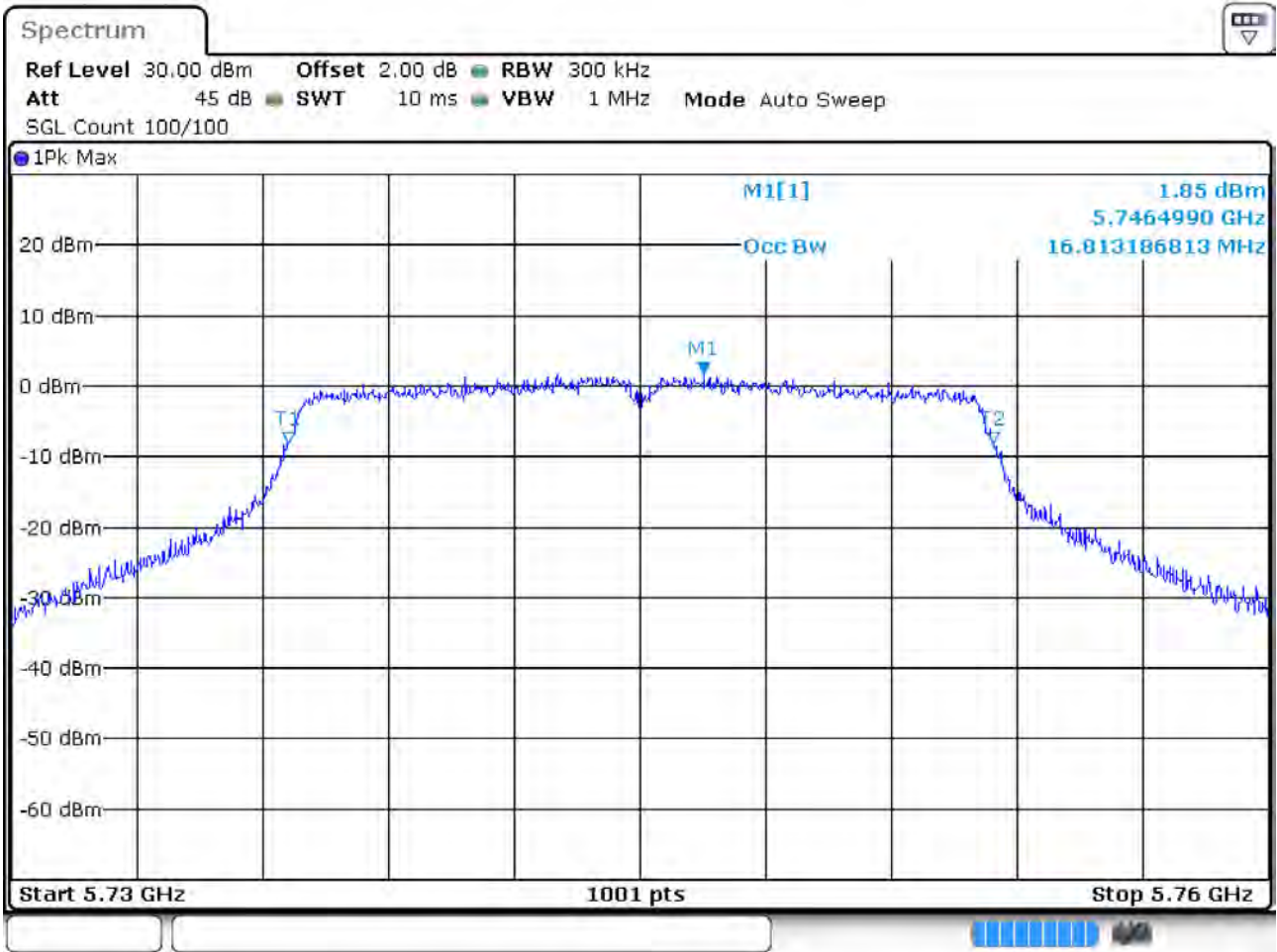


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4.7.2.14 11A20_149 ANT 2



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4.7.2.15 11A20_165 ANT 1



Date: 29 JUL 2019 21:49:02

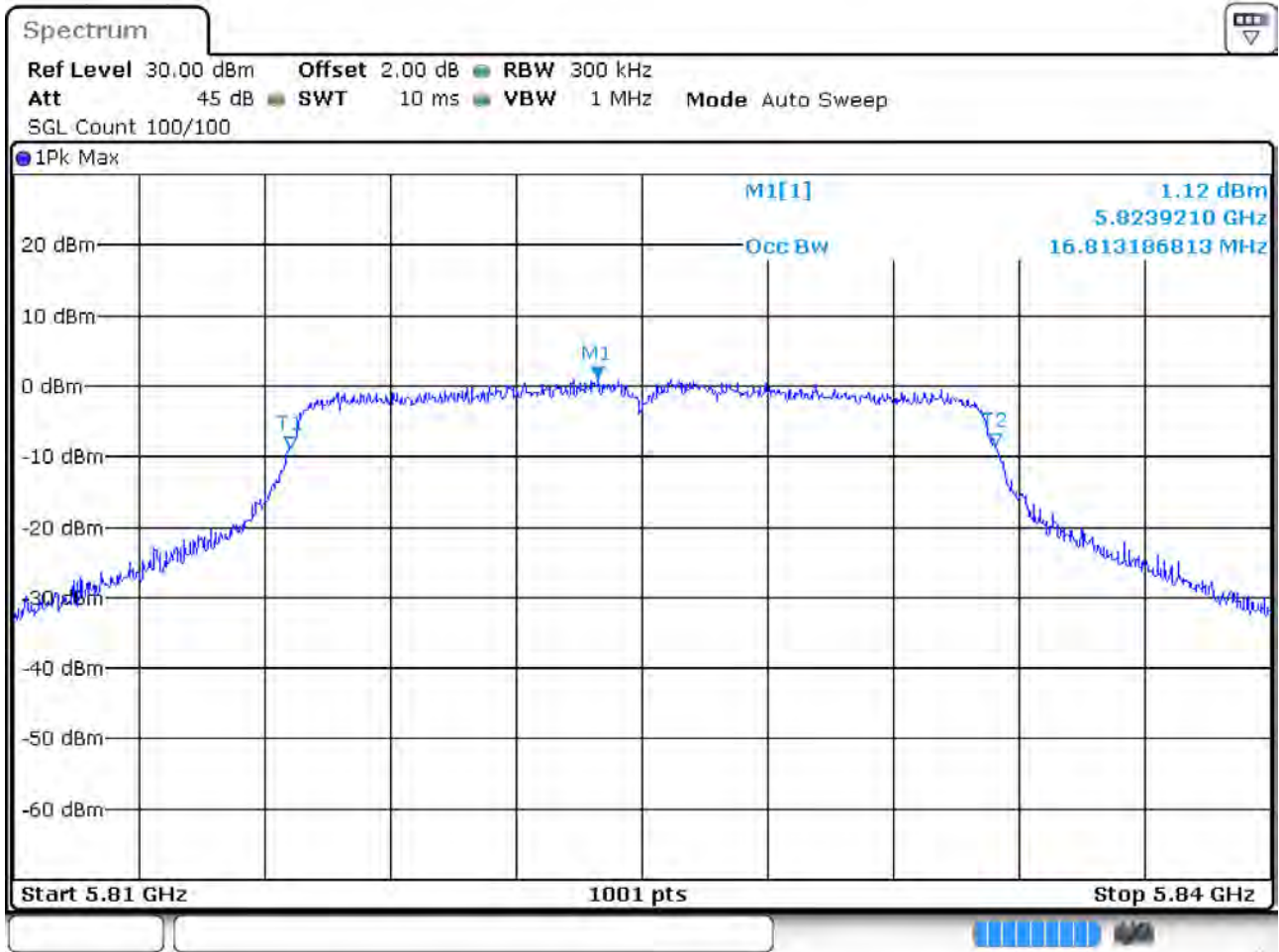


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4.7.2.16 11A20_165 ANT 2



Date: 29 JUL 2019 22:24:29

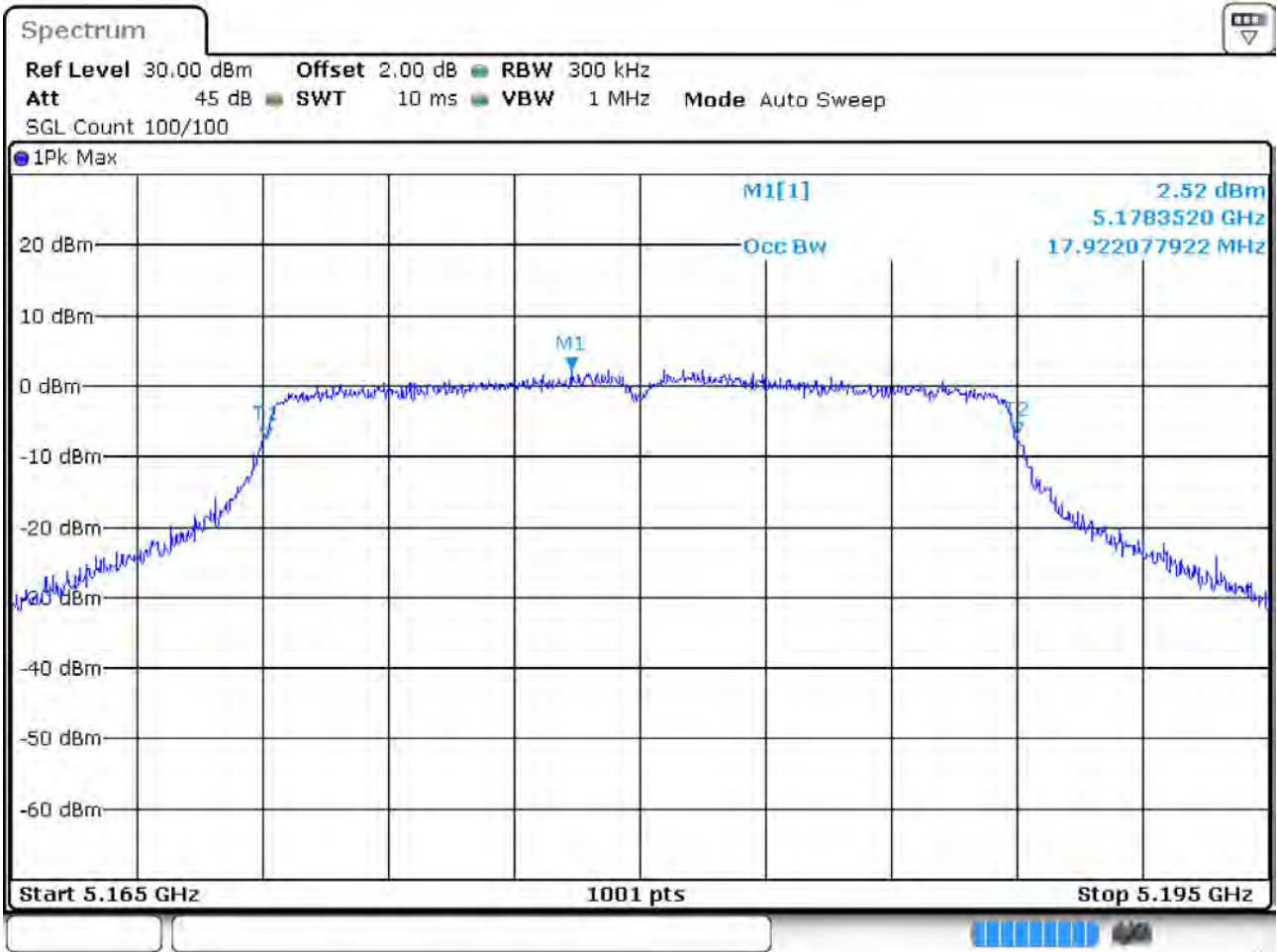


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4.7.2.17 11N20_36 ANT 1

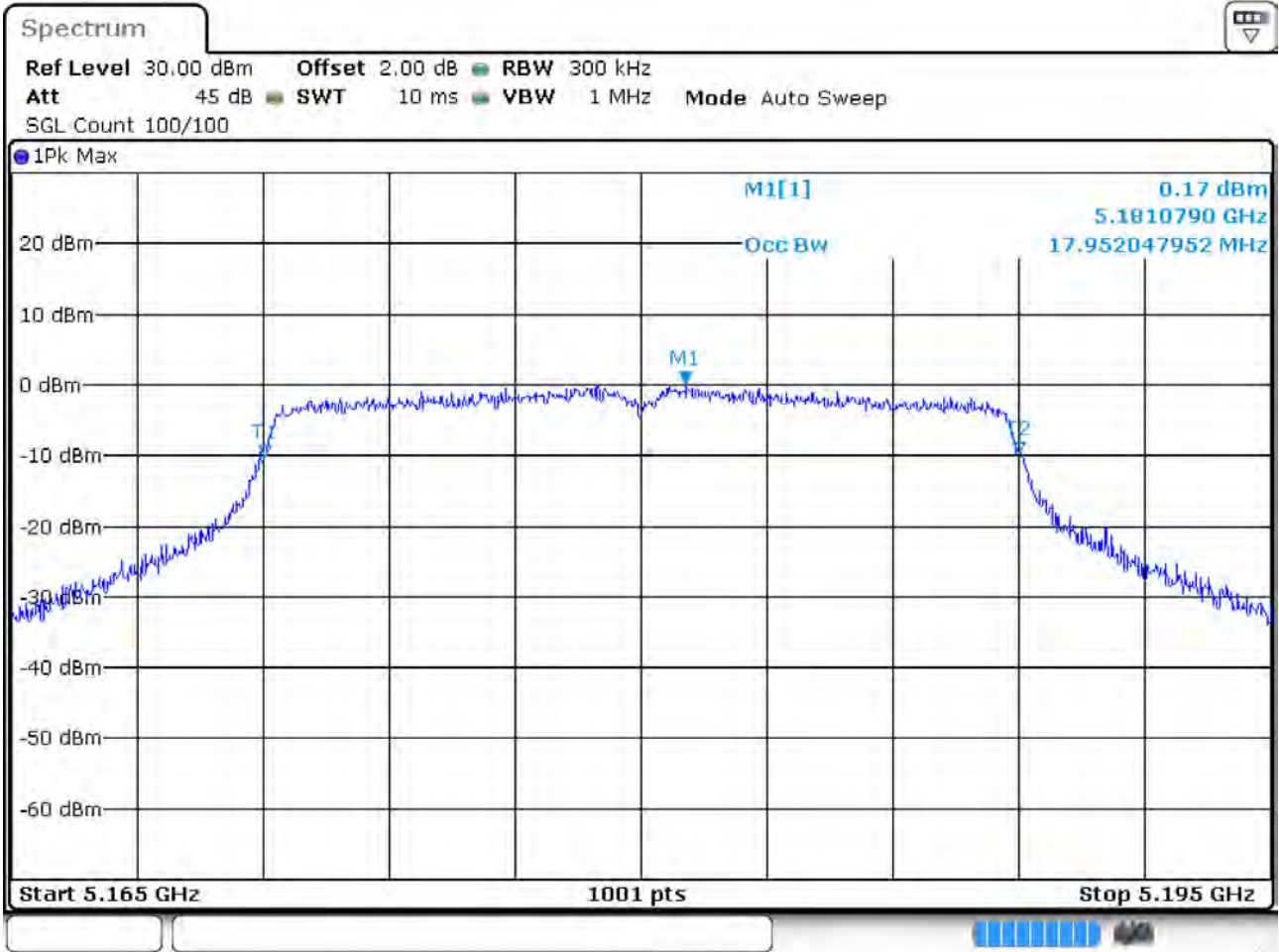


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4.7.2.18 11N20_36 ANT 2



Date: 29 JUL 2019 22:31:33

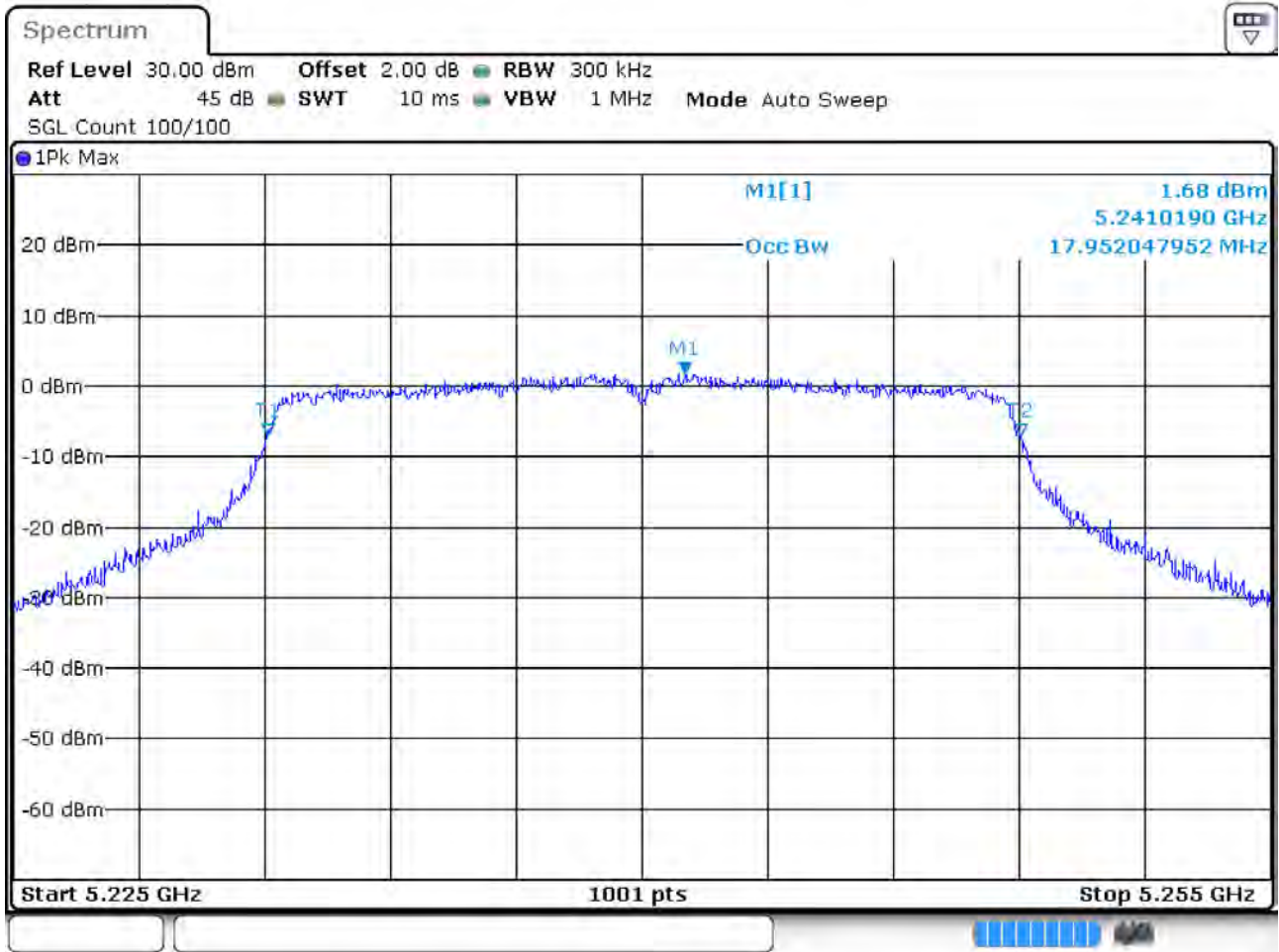


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4.7.2.19 11N20_48 ANT 1

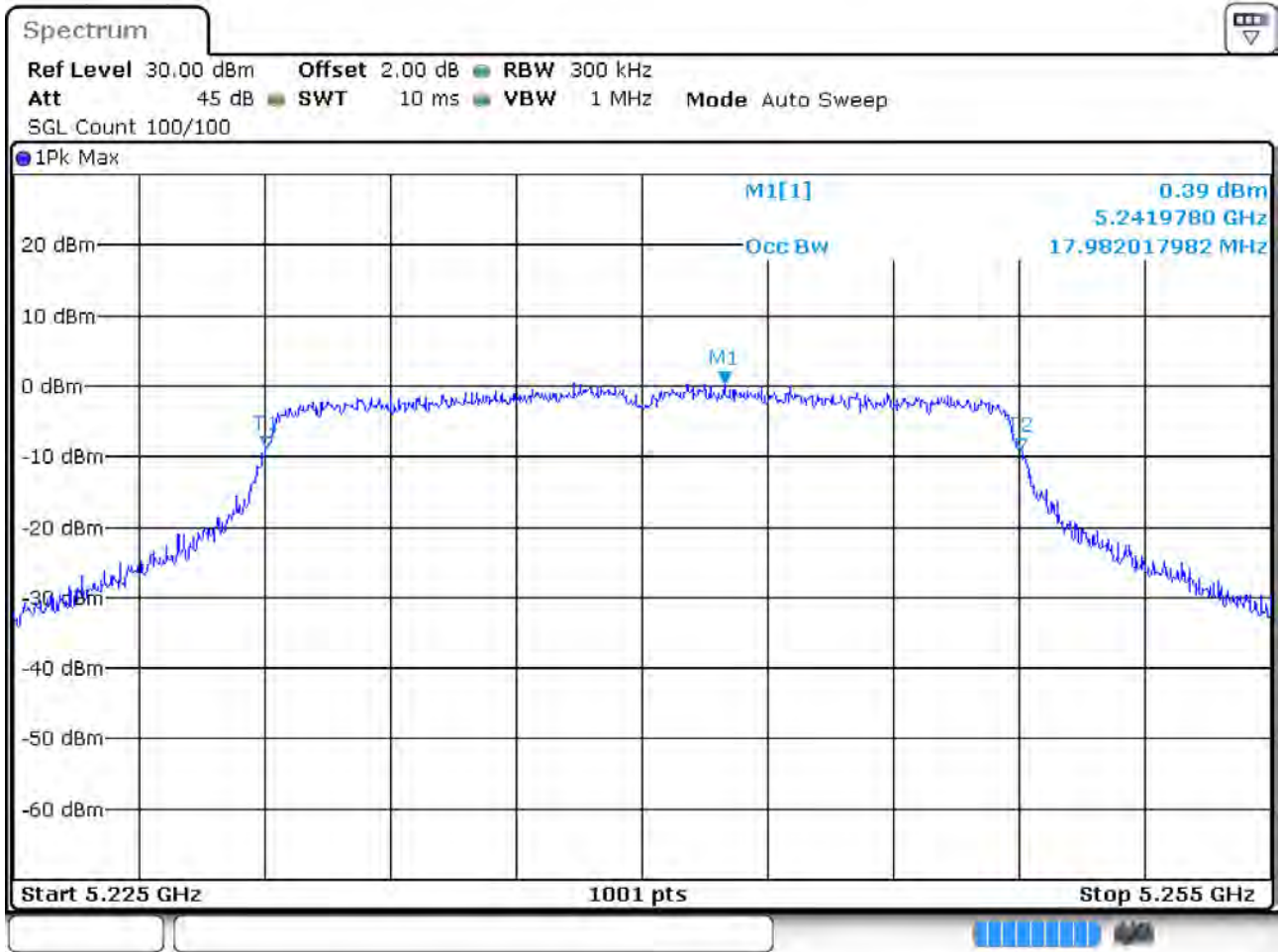


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4.7.2.20 11N20_48 ANT 2

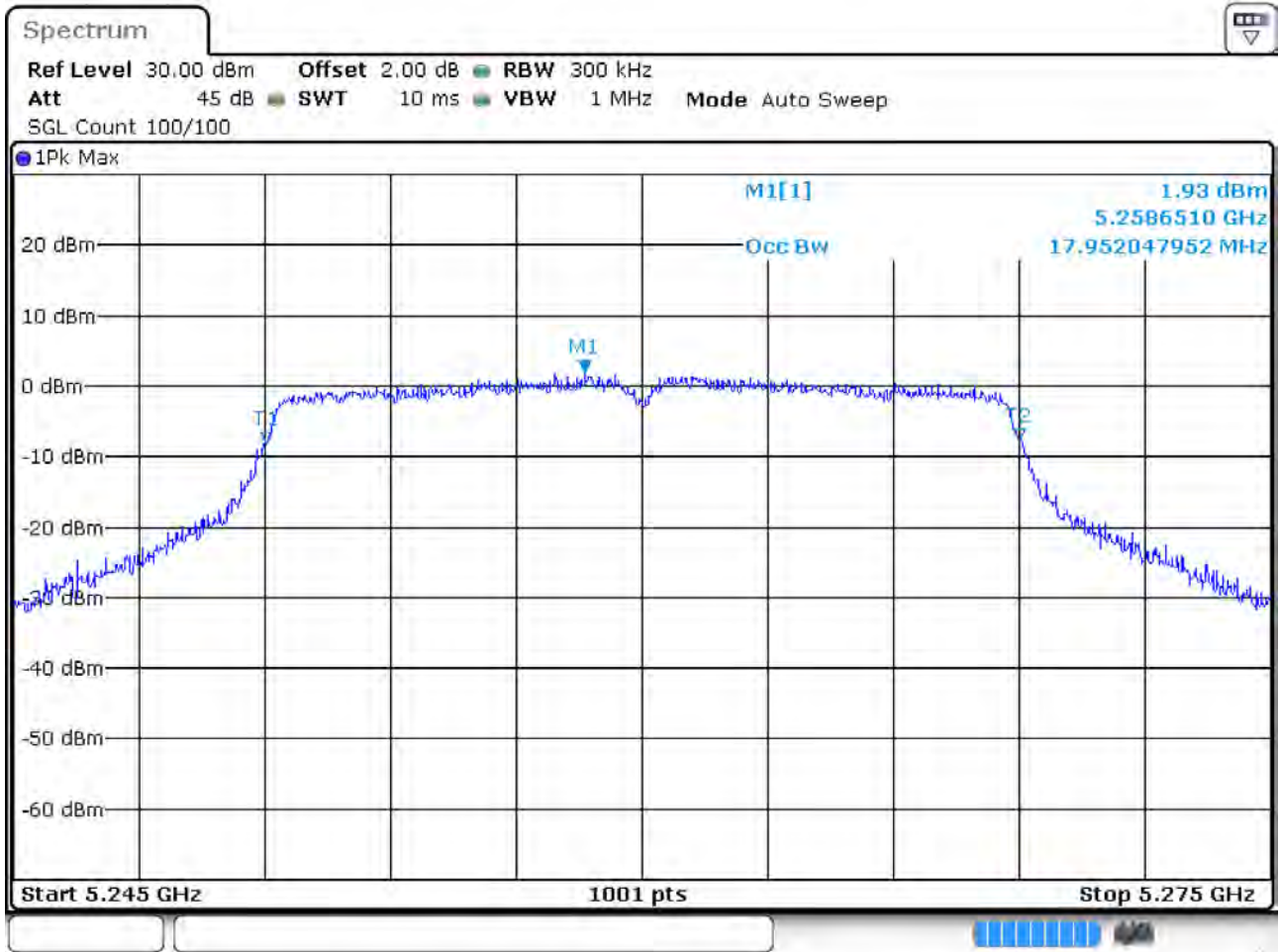


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4.7.2.21 11N20_52 ANT 1



Date: 30 JUL 2019 00:37:33

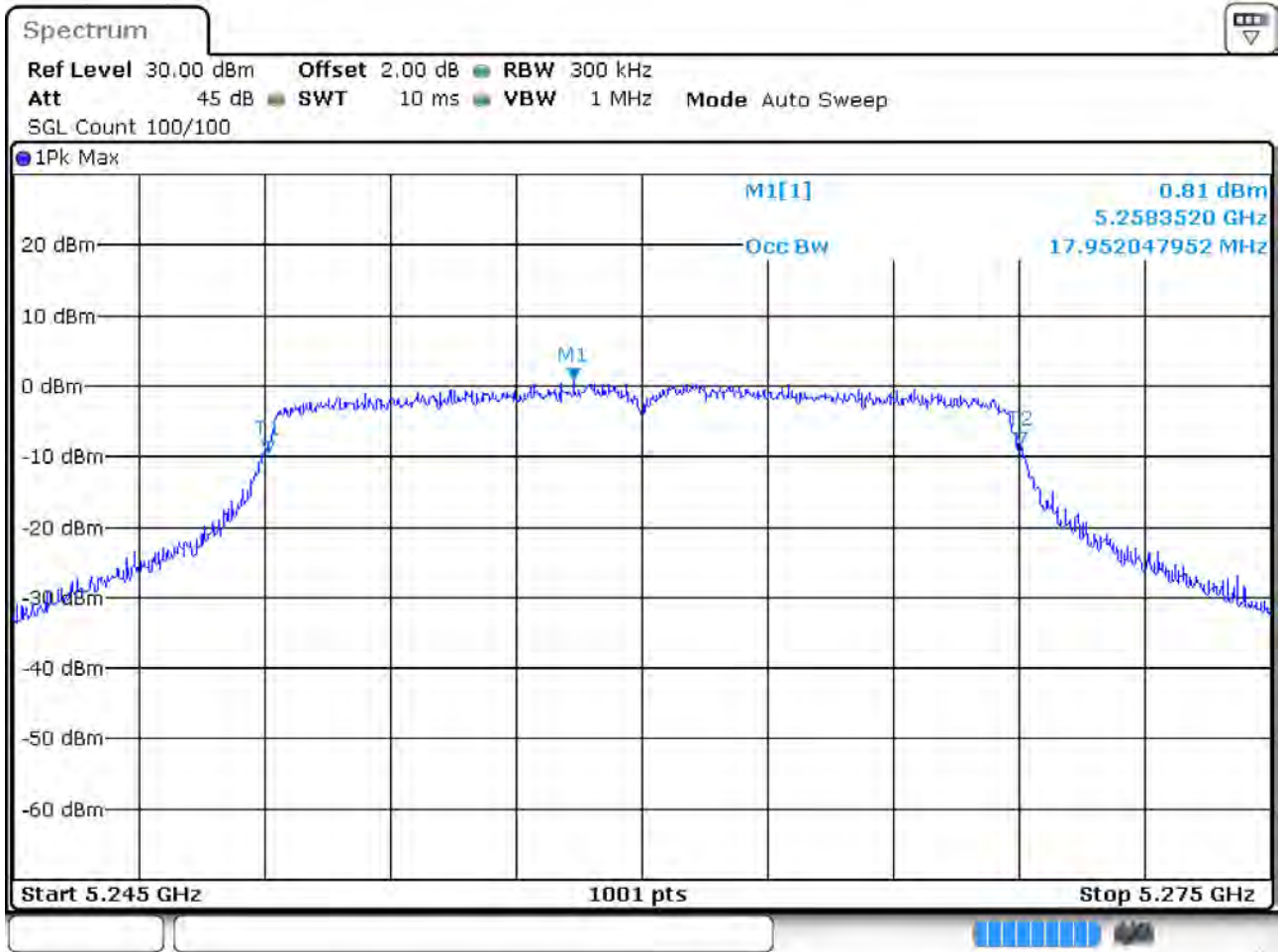


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4.7.2.22 11N20_52 ANT 2



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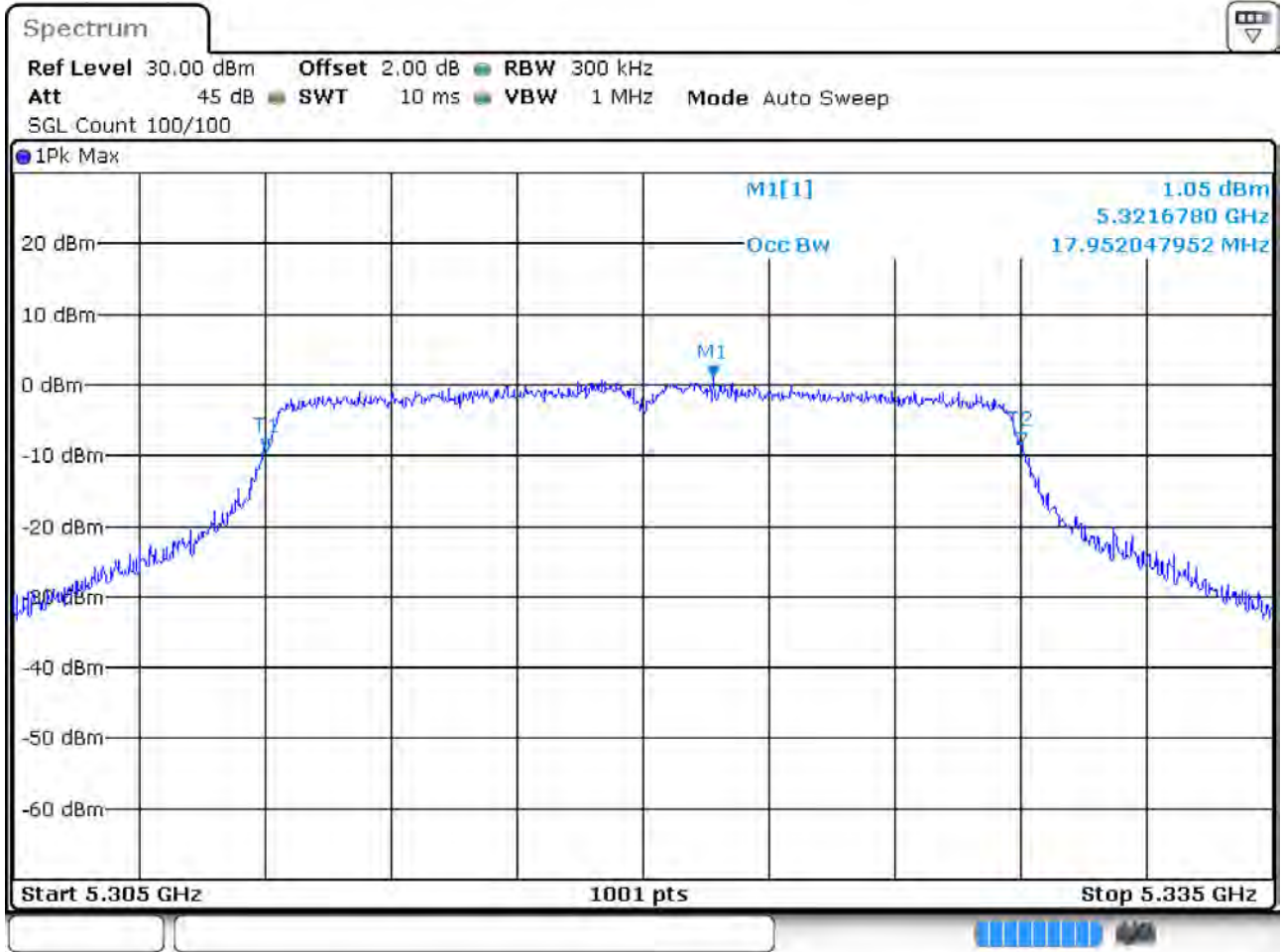
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4.7.2.23

11N20_64 ANT 1



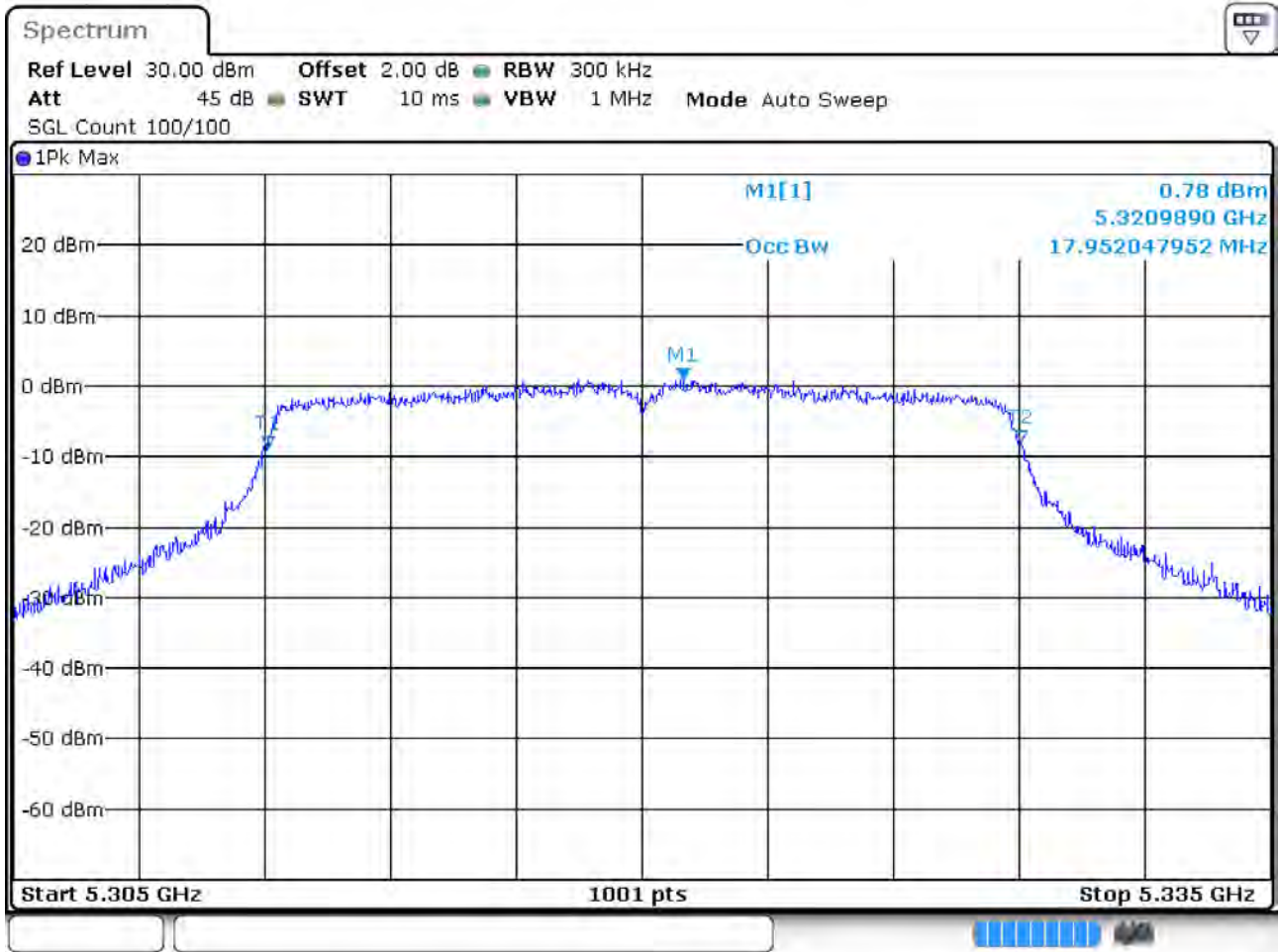
Date: 30 JUL 2019 00:38:47



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4.7.2.24 11N20_64 ANT 2

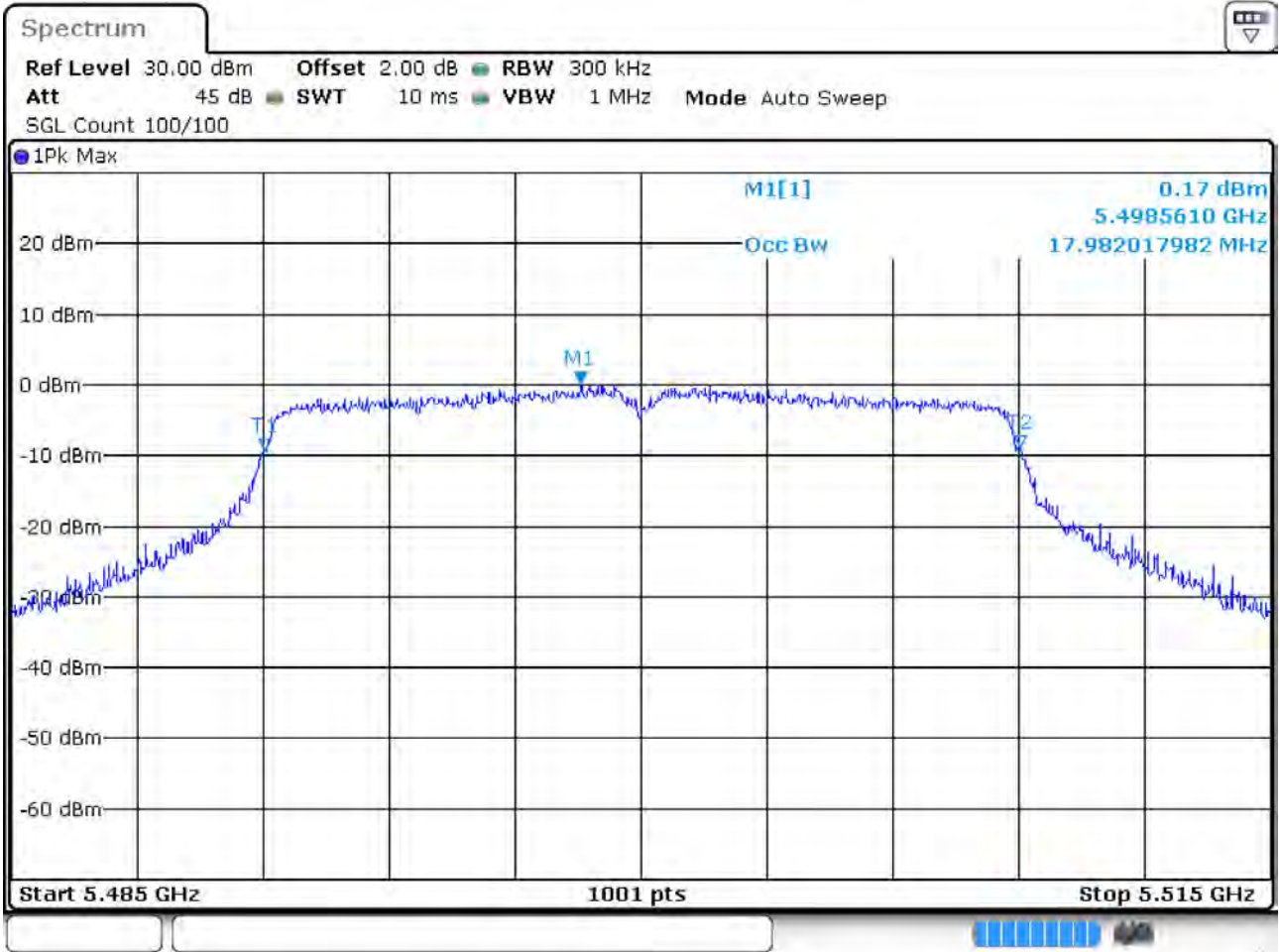


Date: 29 JUL 2019 22:34:54



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4.7.2.25 11N20_100 ANT 1



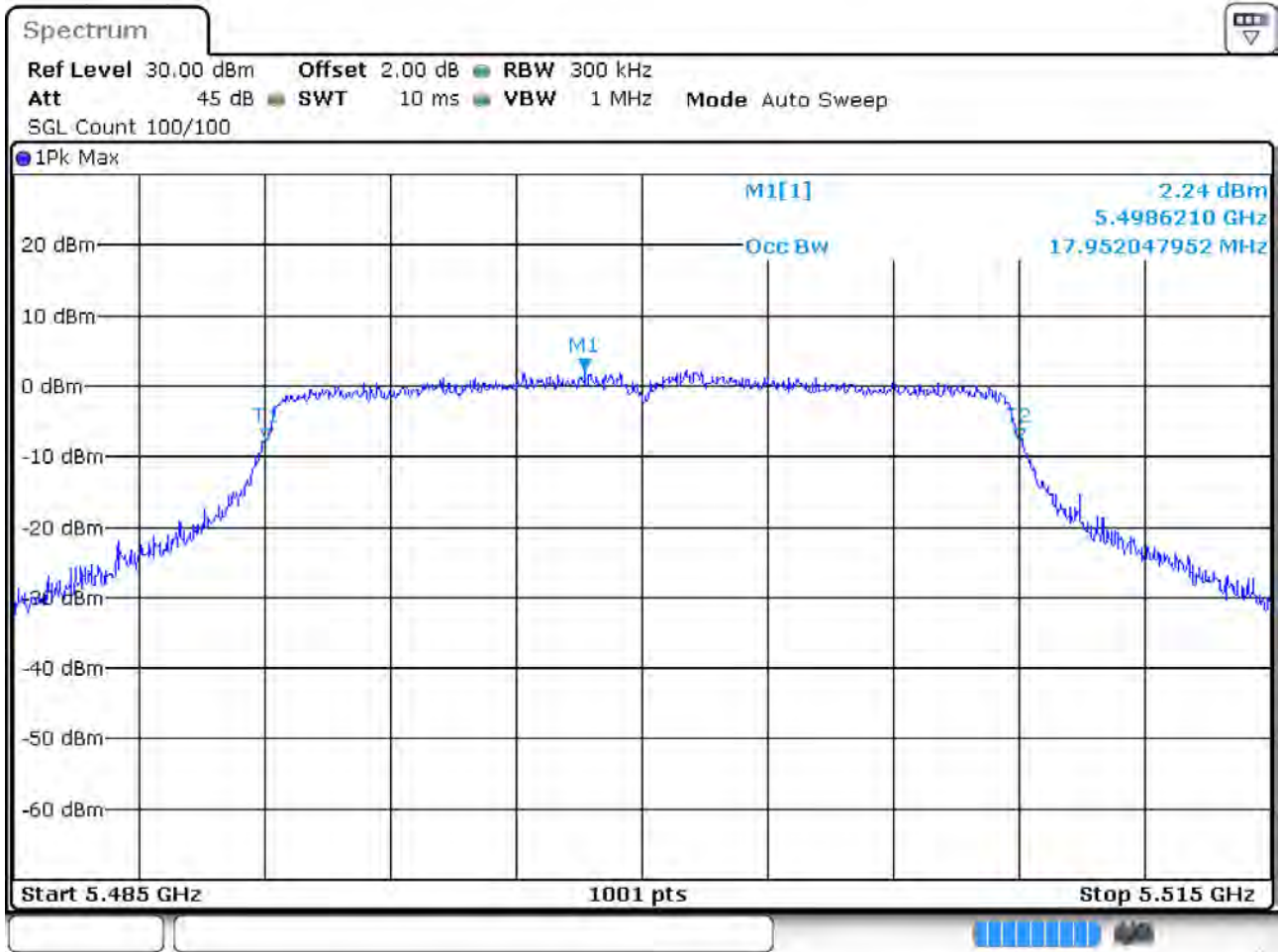
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4.7.2.26 11N20_100 ANT 2

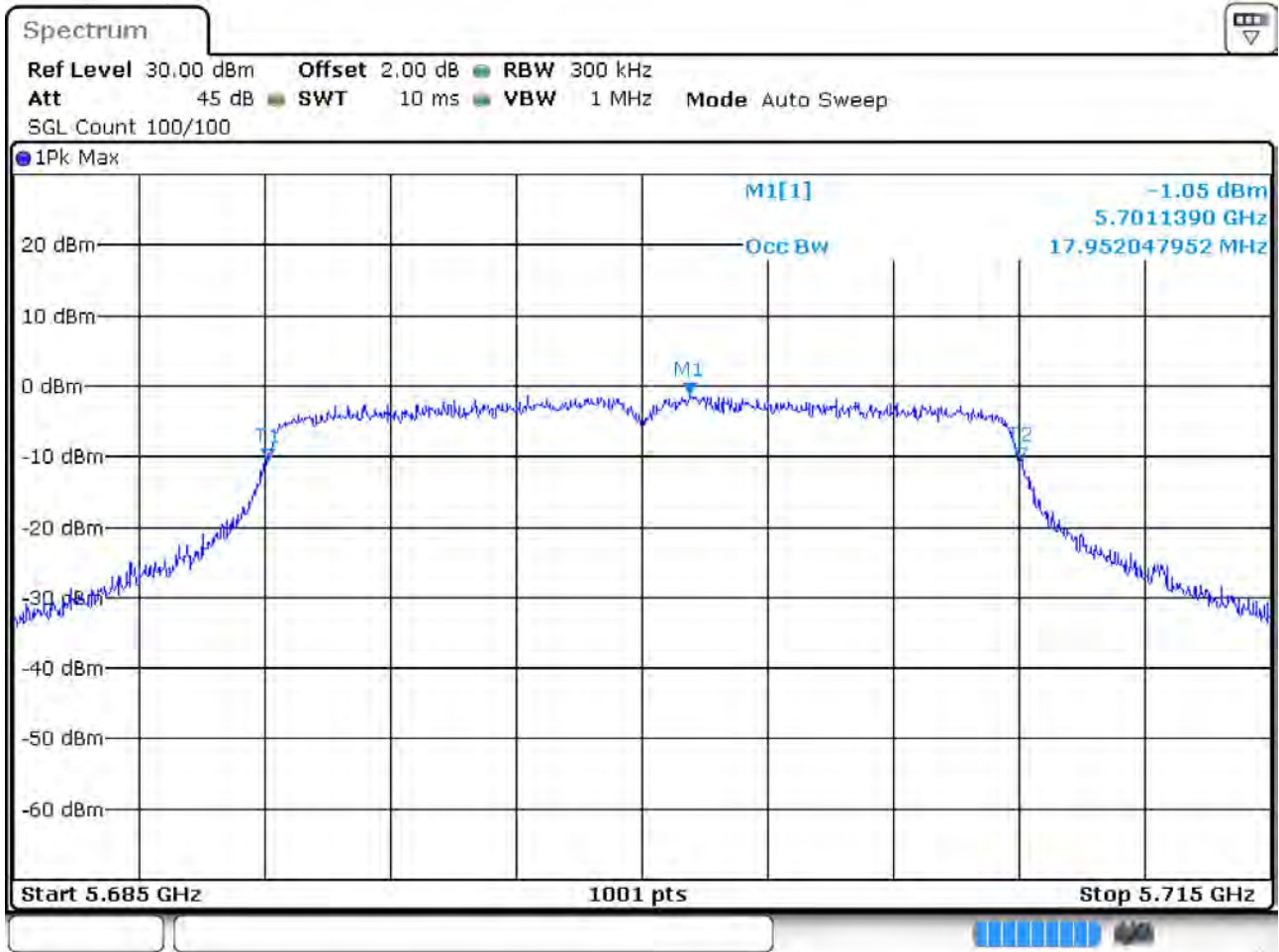


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4.7.2.27 11N20_140 ANT 1

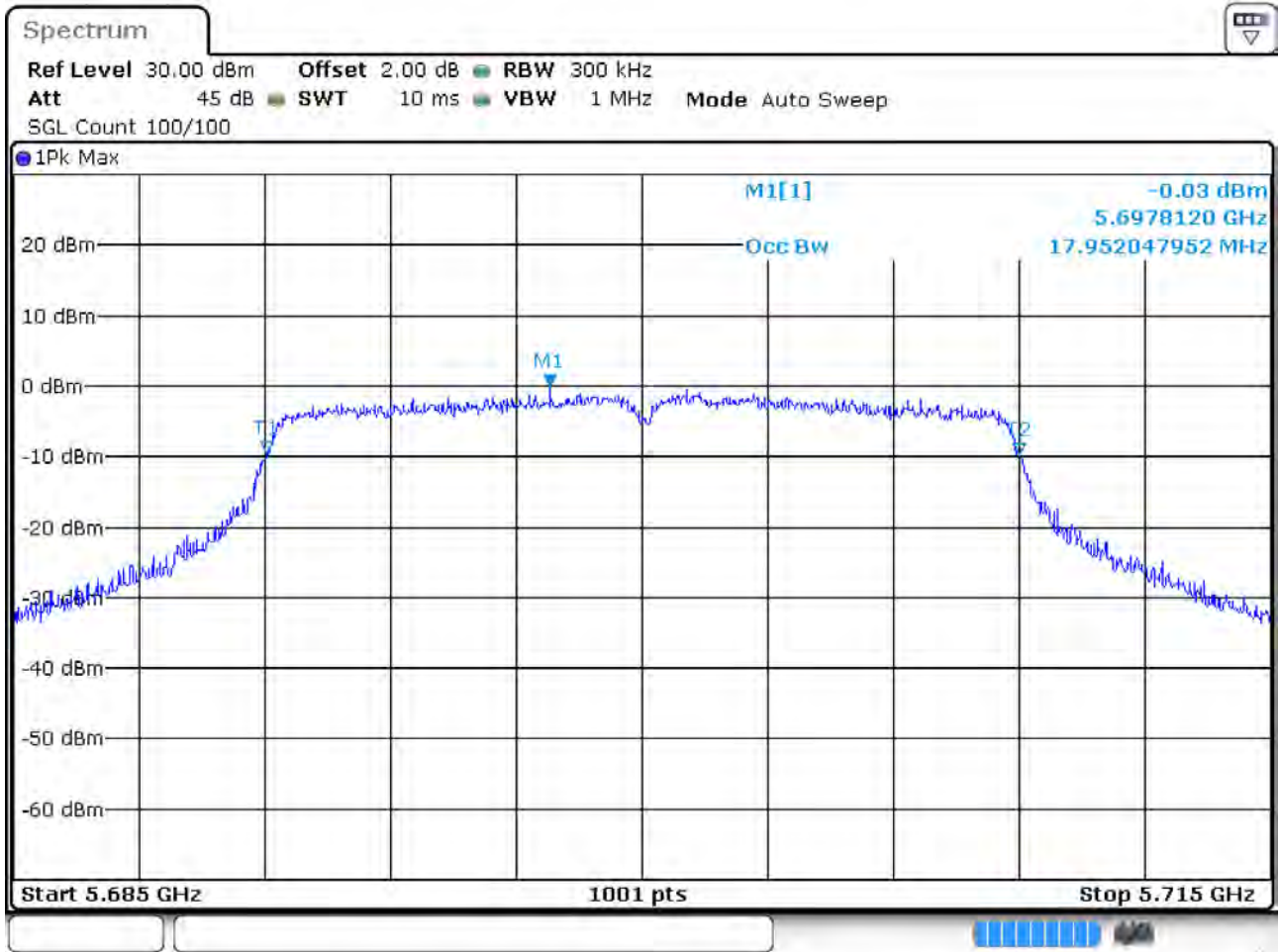


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4.7.2.28 11N20_140 ANT 2



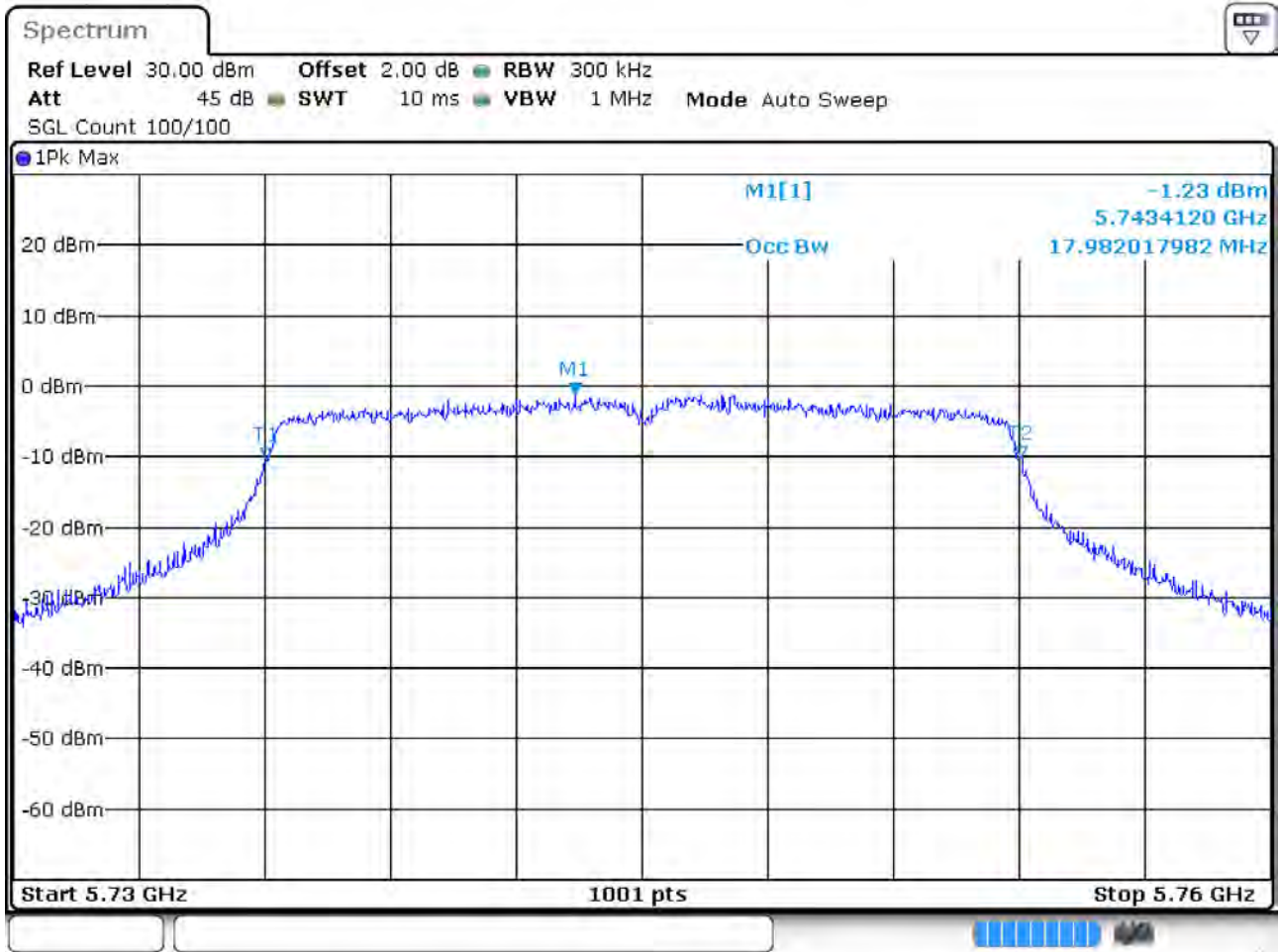
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4.7.2.29 11N20_149 ANT 1



Date: 30 JUL 2019 00:31:53



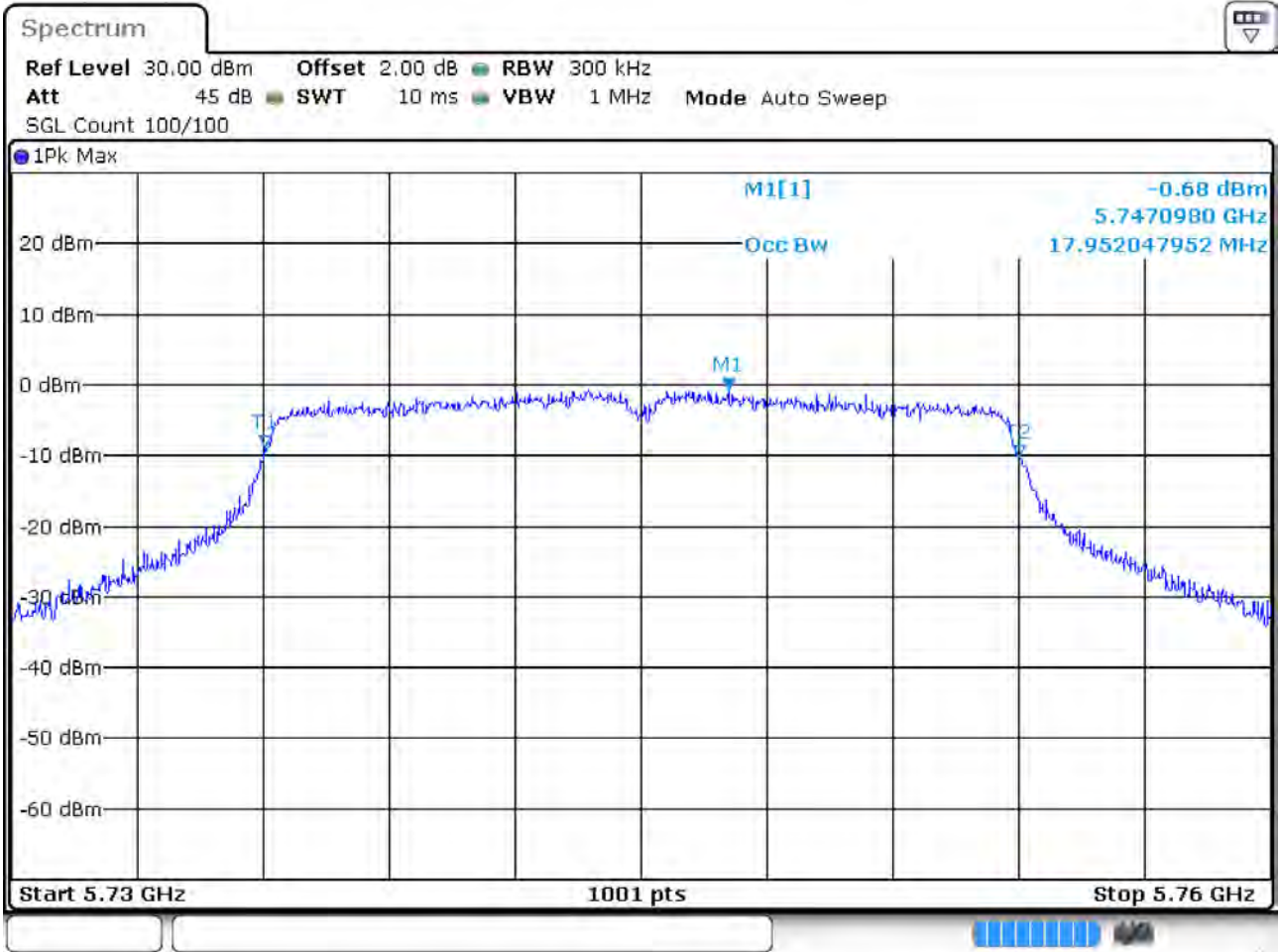
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4.7.2.30 11N20_149 ANT 2



Date: 29 JUL 2019 22:39:00

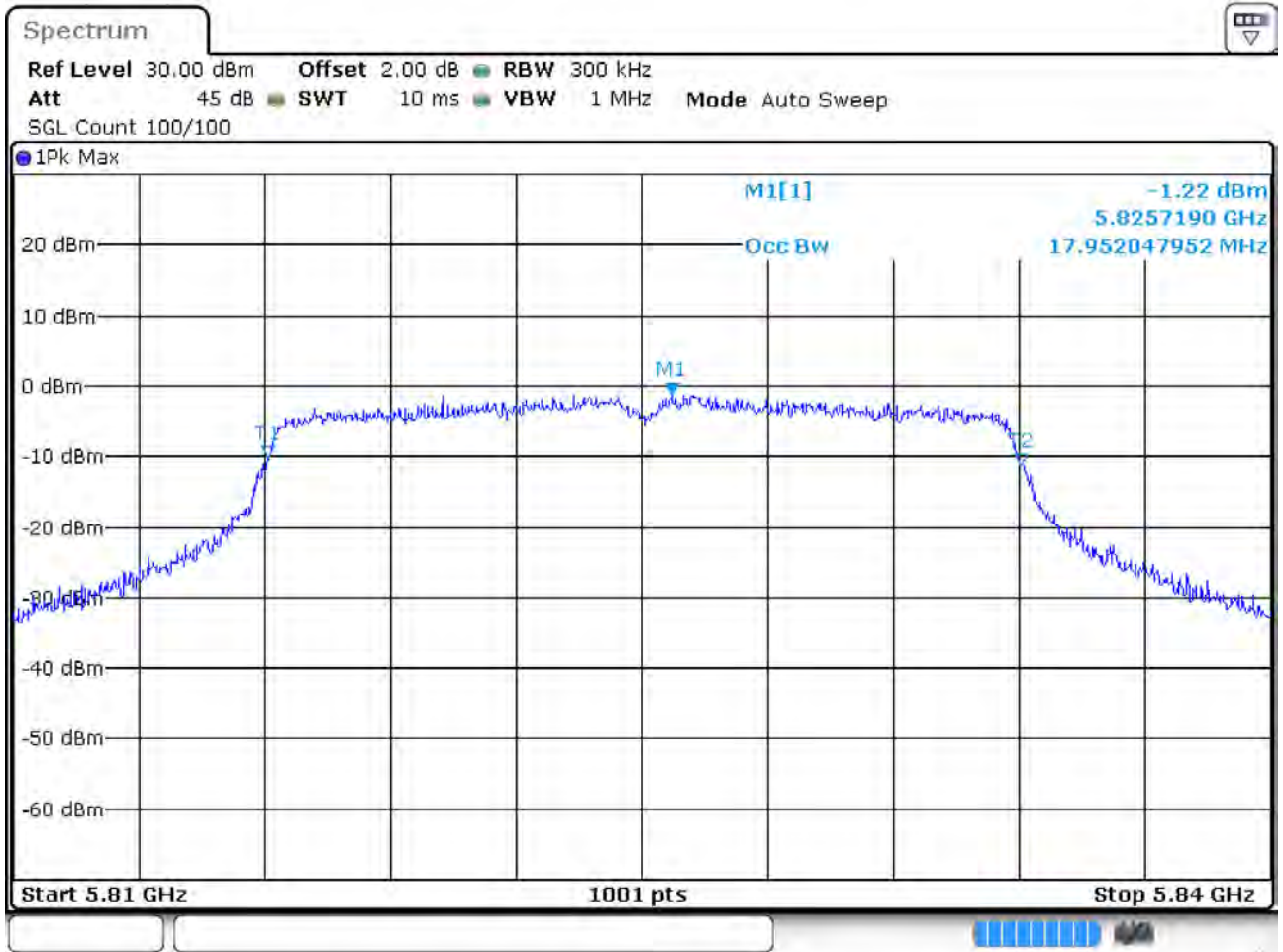


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4.7.2.31 11N20_165 ANT 1

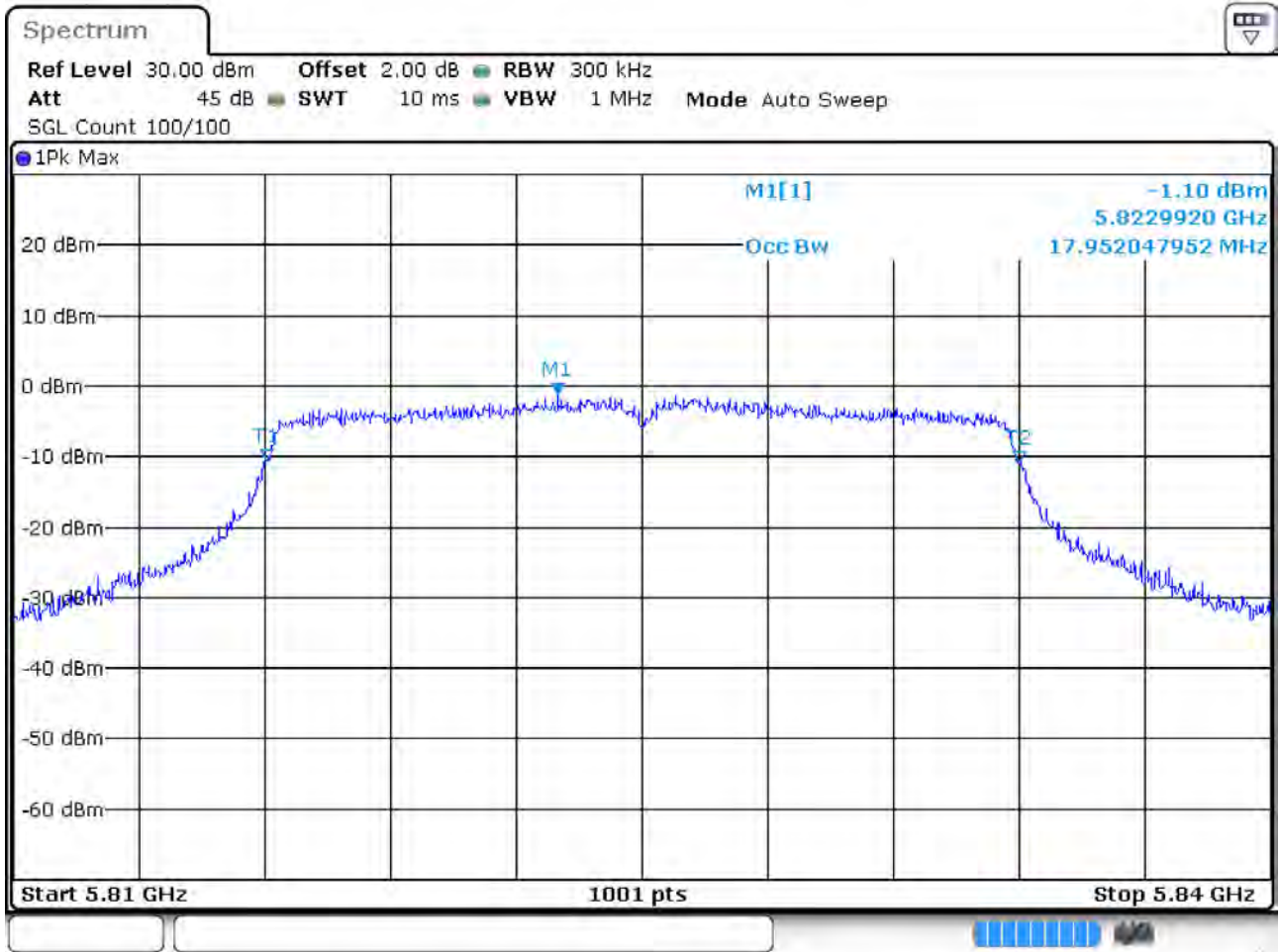


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4.7.2.32 11N20_165 ANT 2



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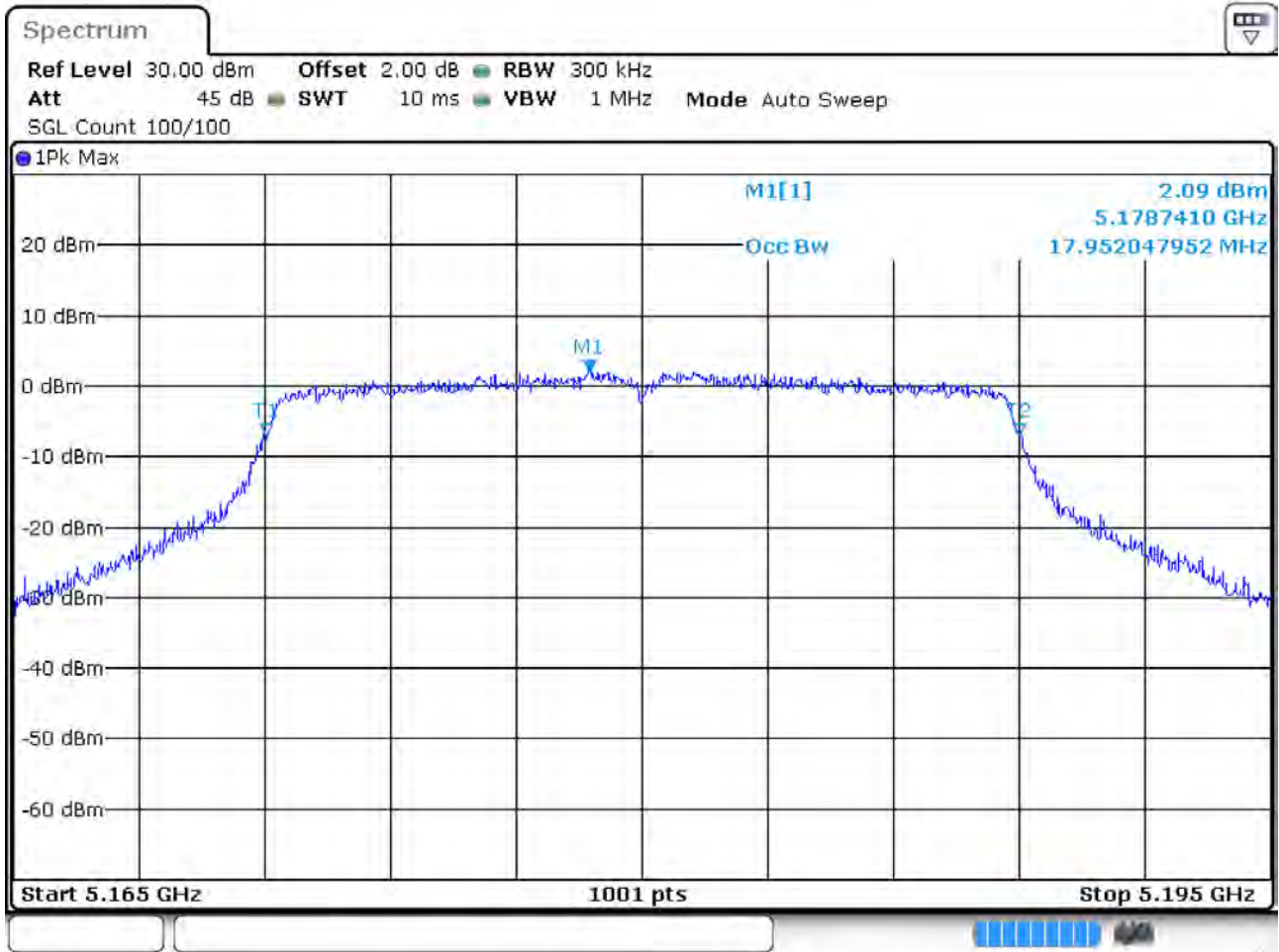


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4.7.2.33 11N20MIMO_36 ANT 1



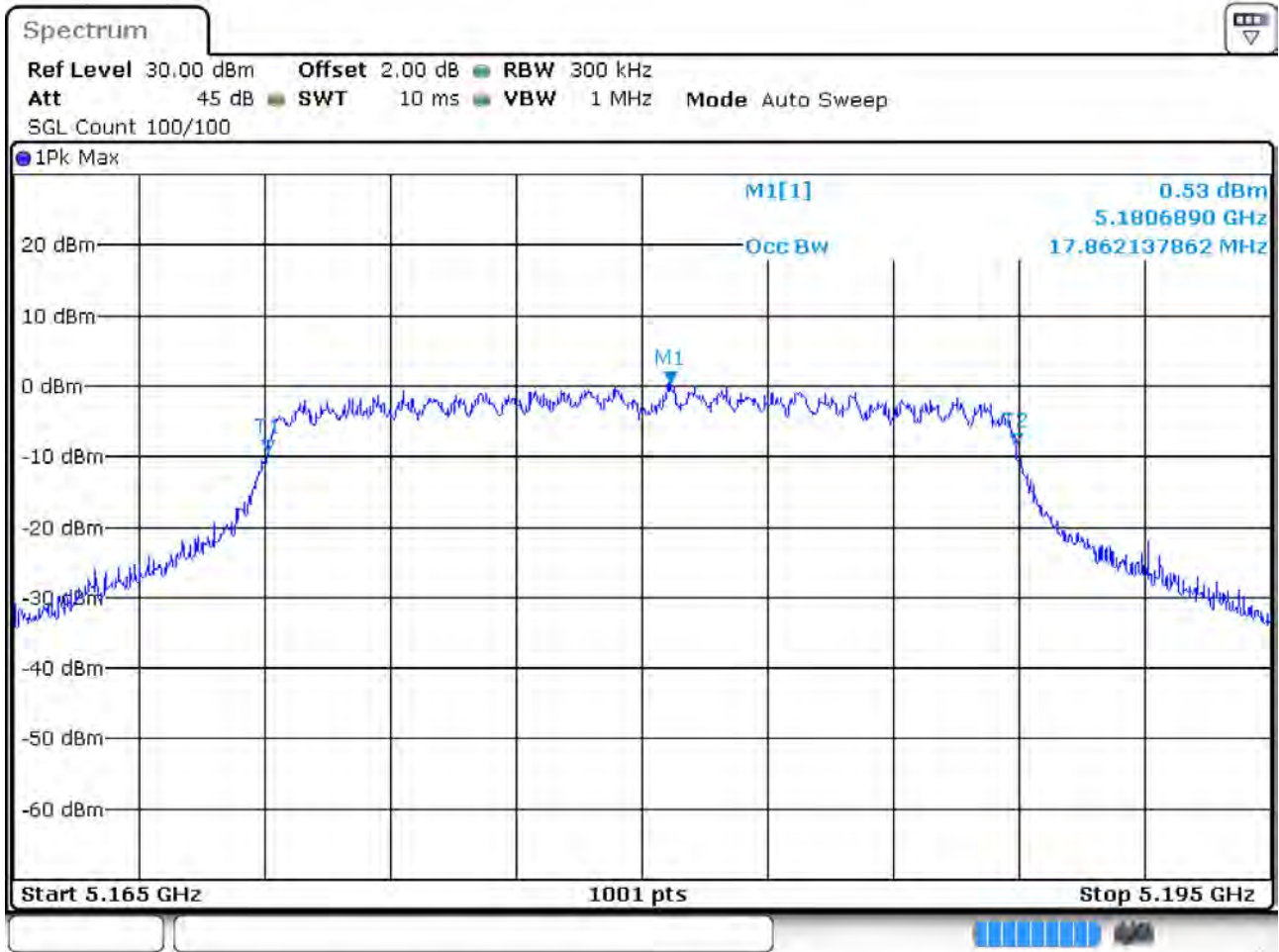
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4.7.2.34 11N20MIMO_36 ANT 2



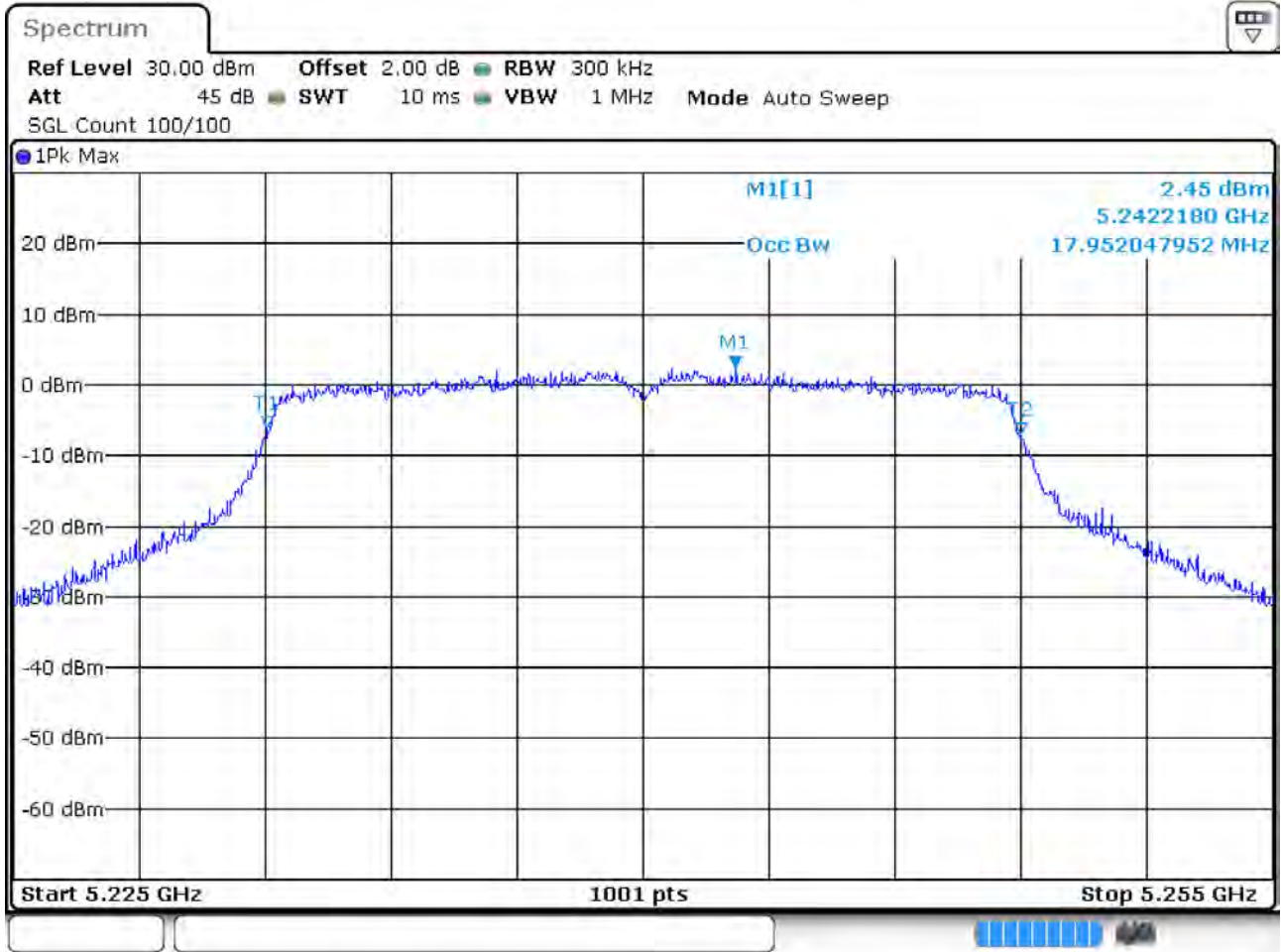
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4.7.2.35 11N20MIMO_48 ANT 1

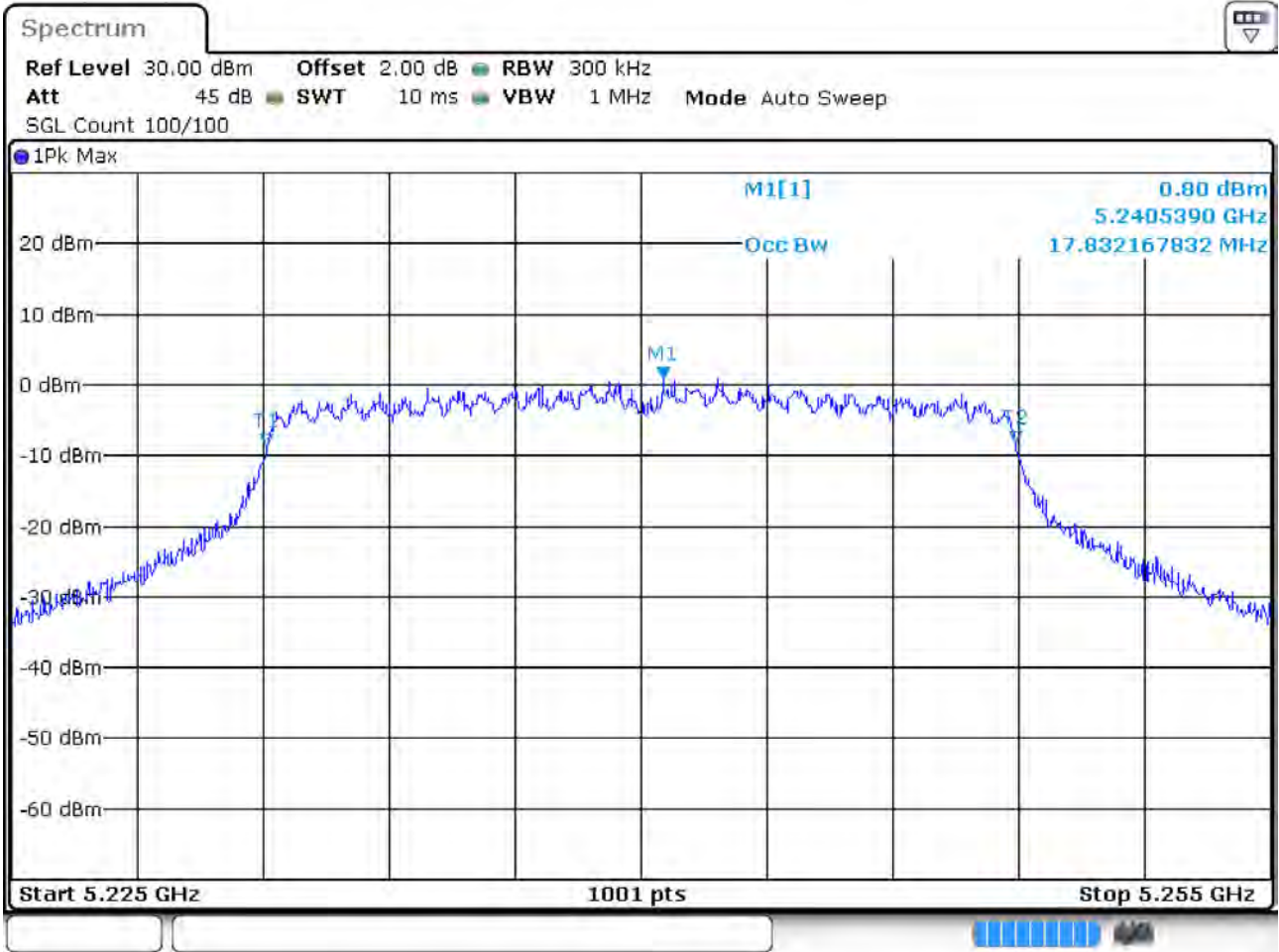


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4.7.2.36 11N20MIMO_48 ANT 2



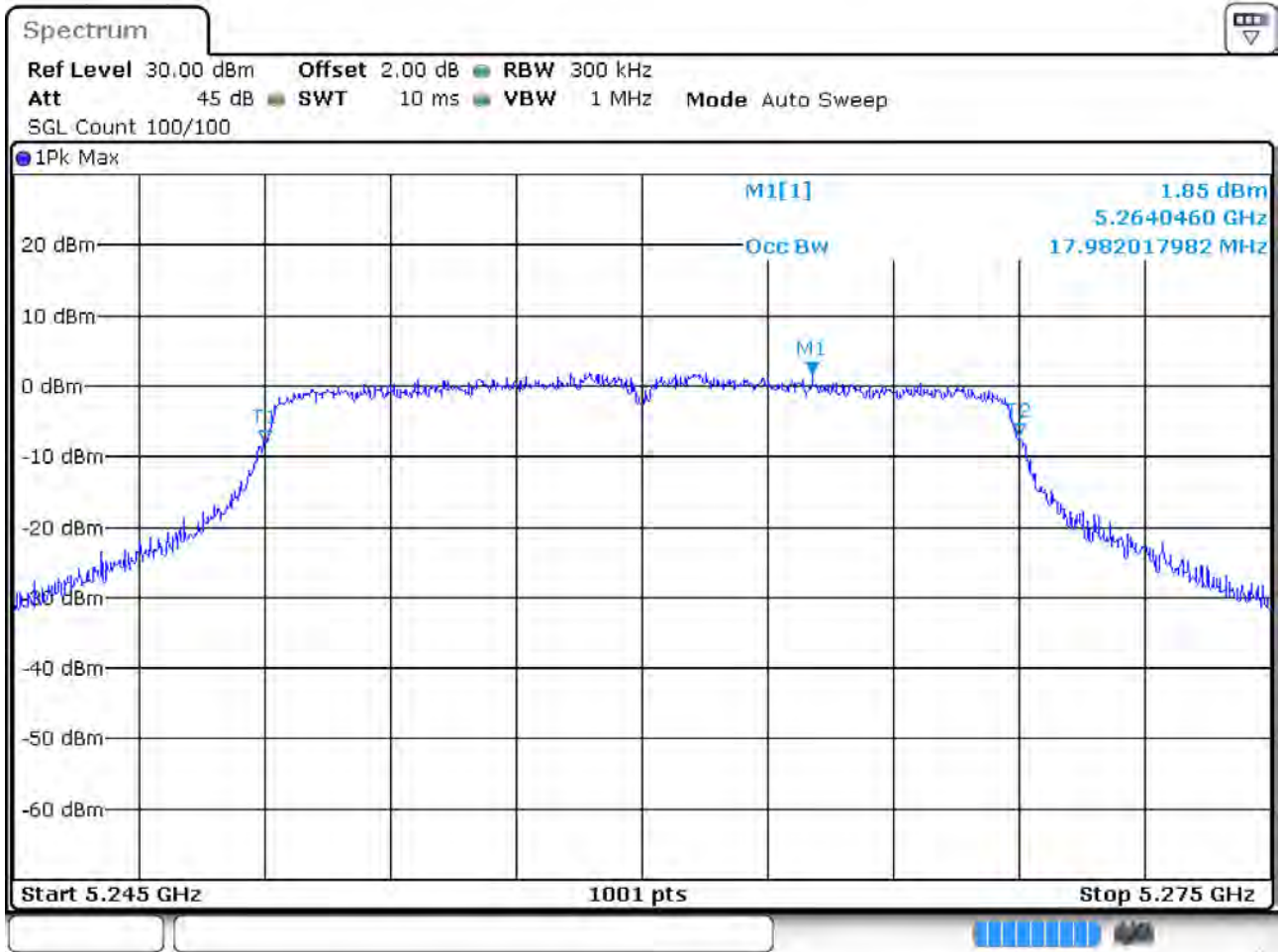
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4.7.2.37 11N20MIMO_52 ANT 1



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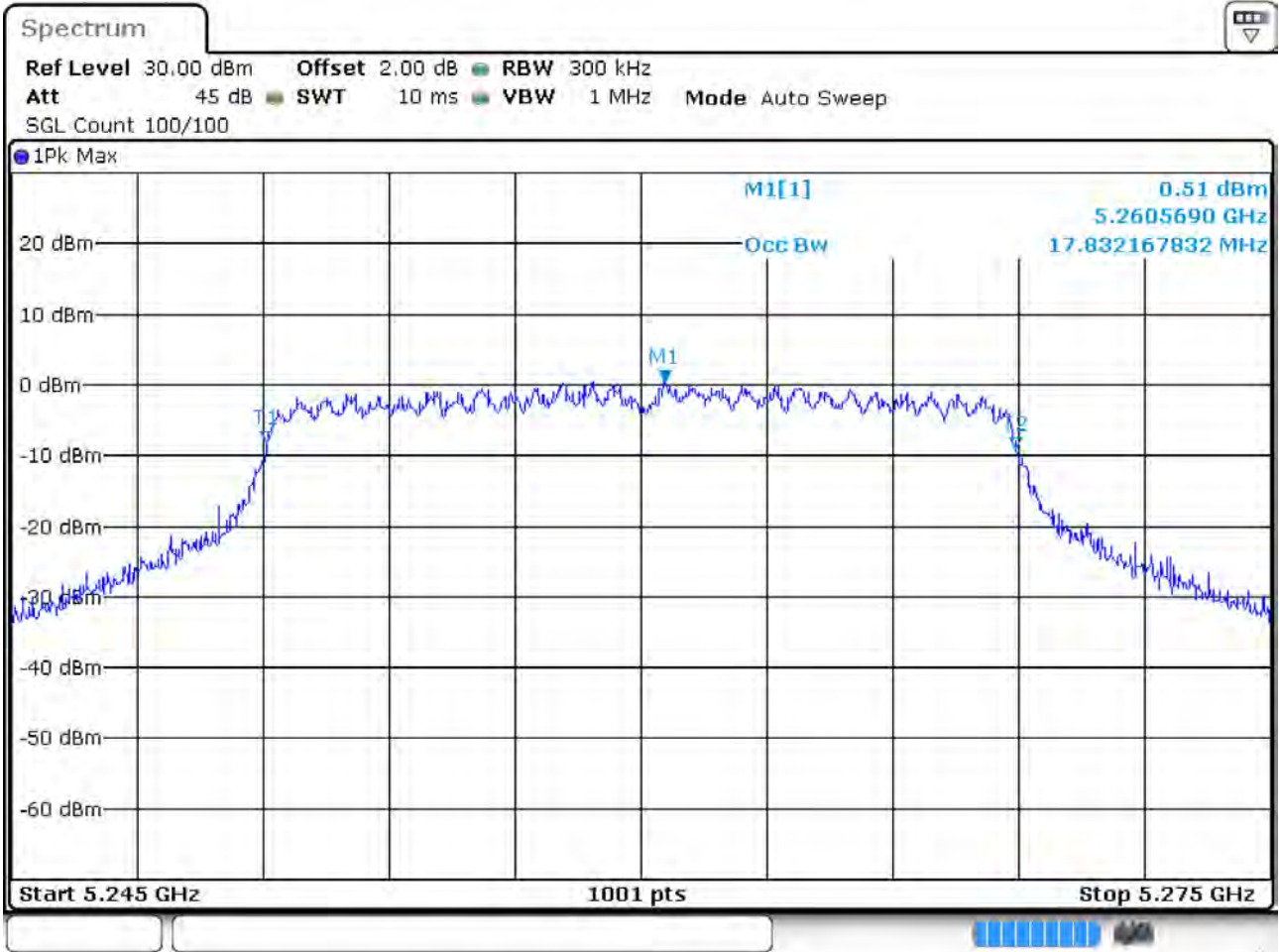


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4.7.2.38 11N20MIMO_52 ANT 2



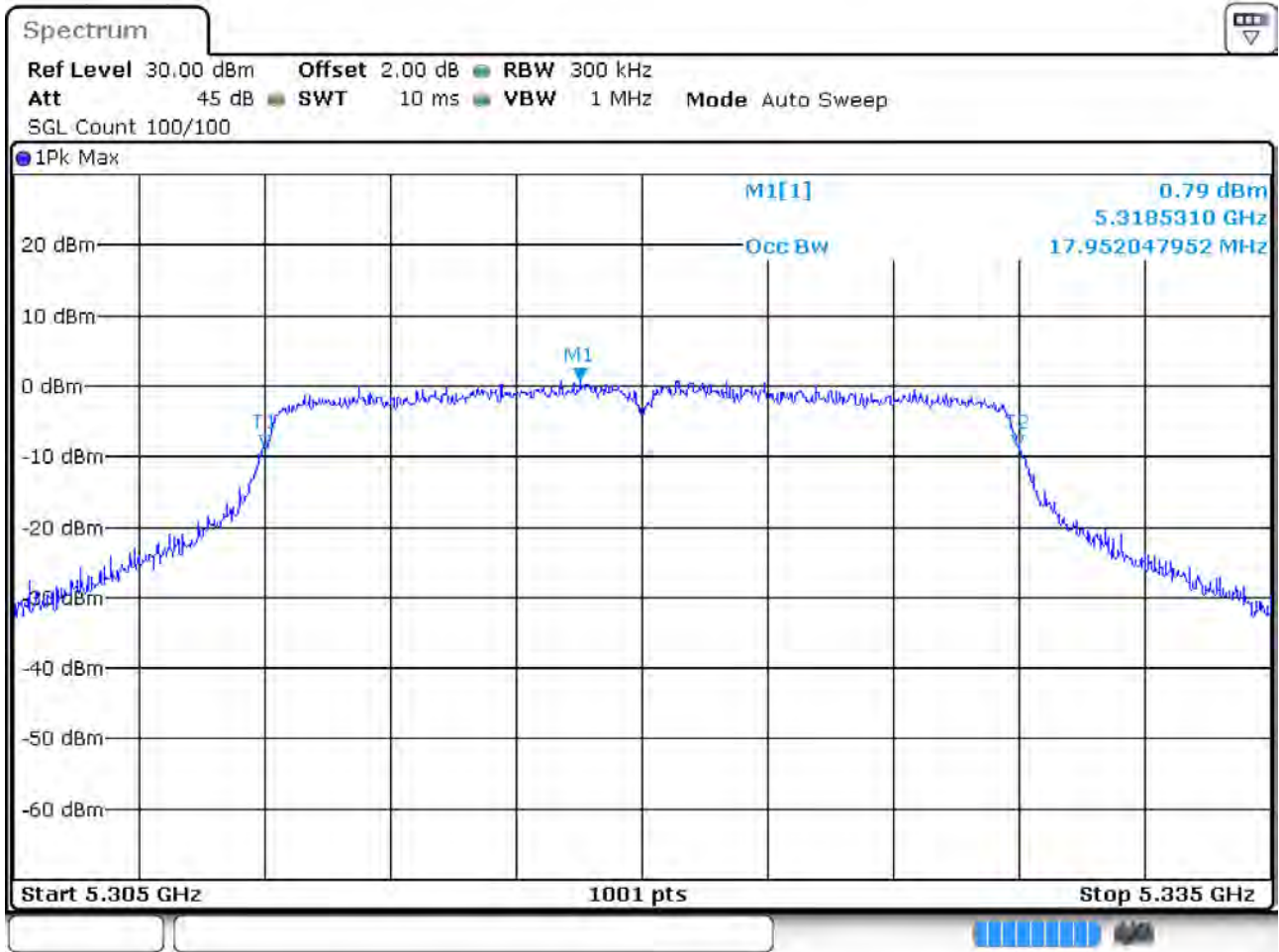
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4.7.2.39 11N20MIMO_64 ANT 1

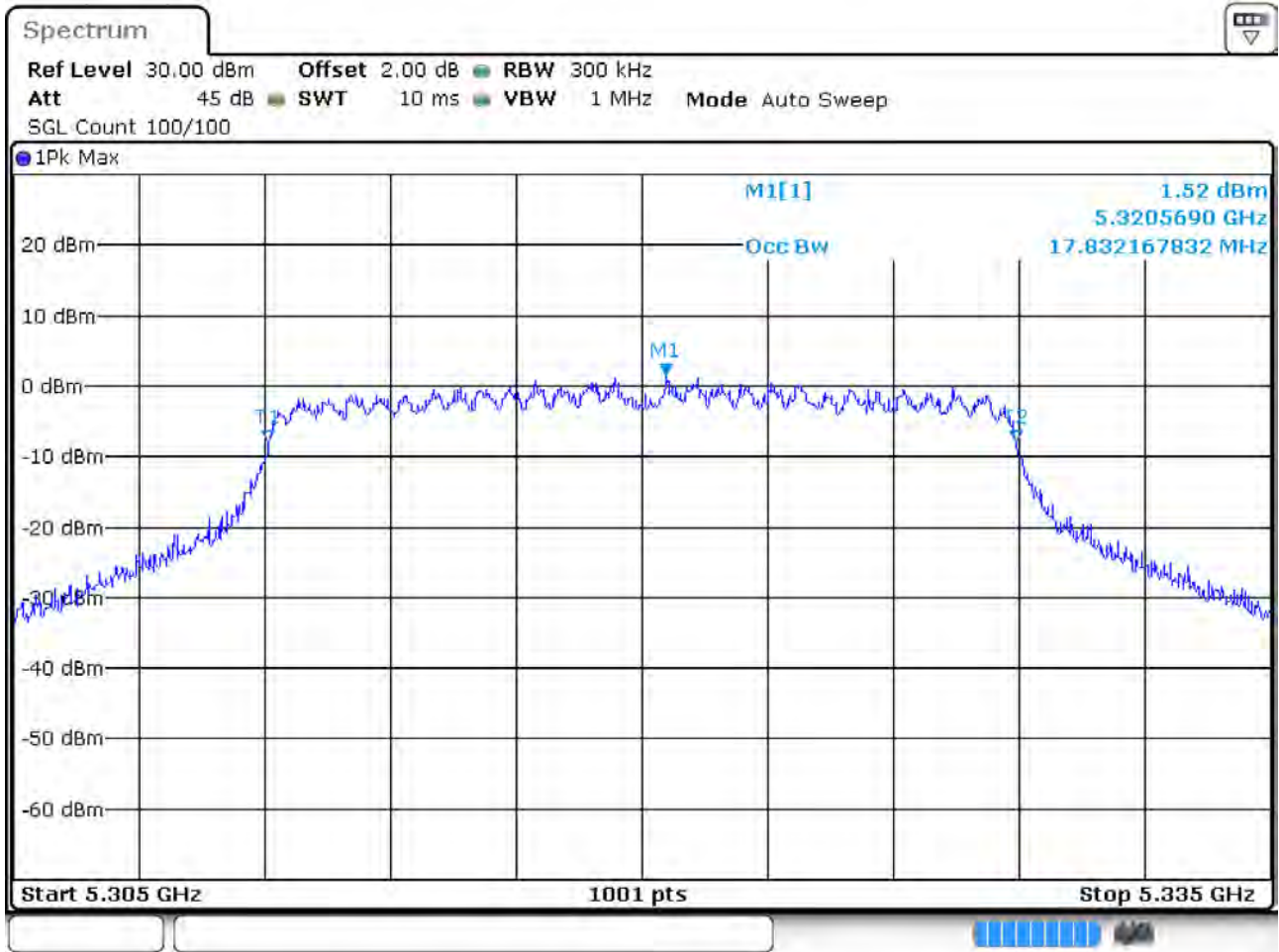


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4.7.2.40 11N20MIMO_64 ANT 2



Date: 30 JUL 2019 06:10:36

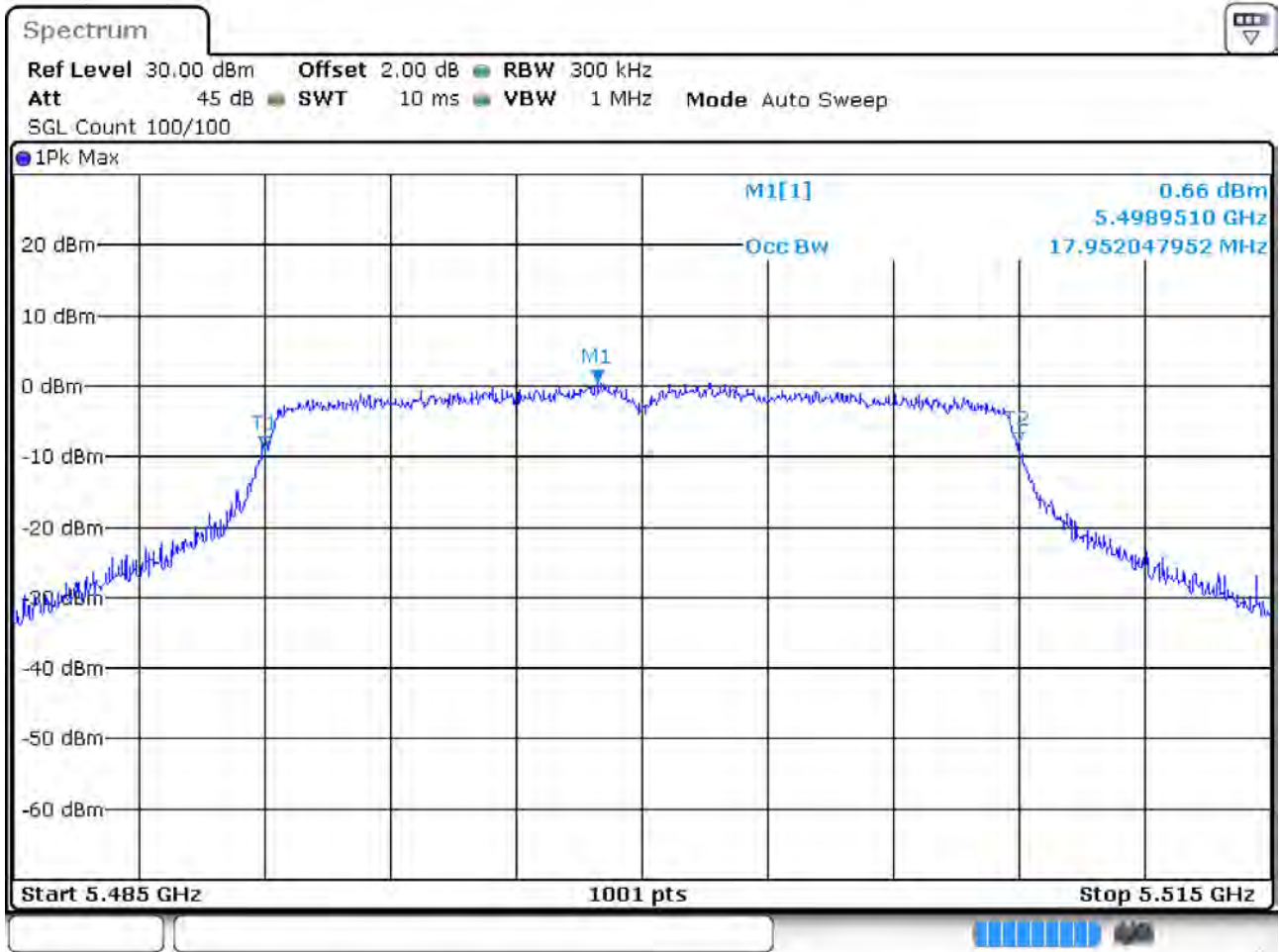


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4.7.2.41 11N20MIMO_100 ANT 1



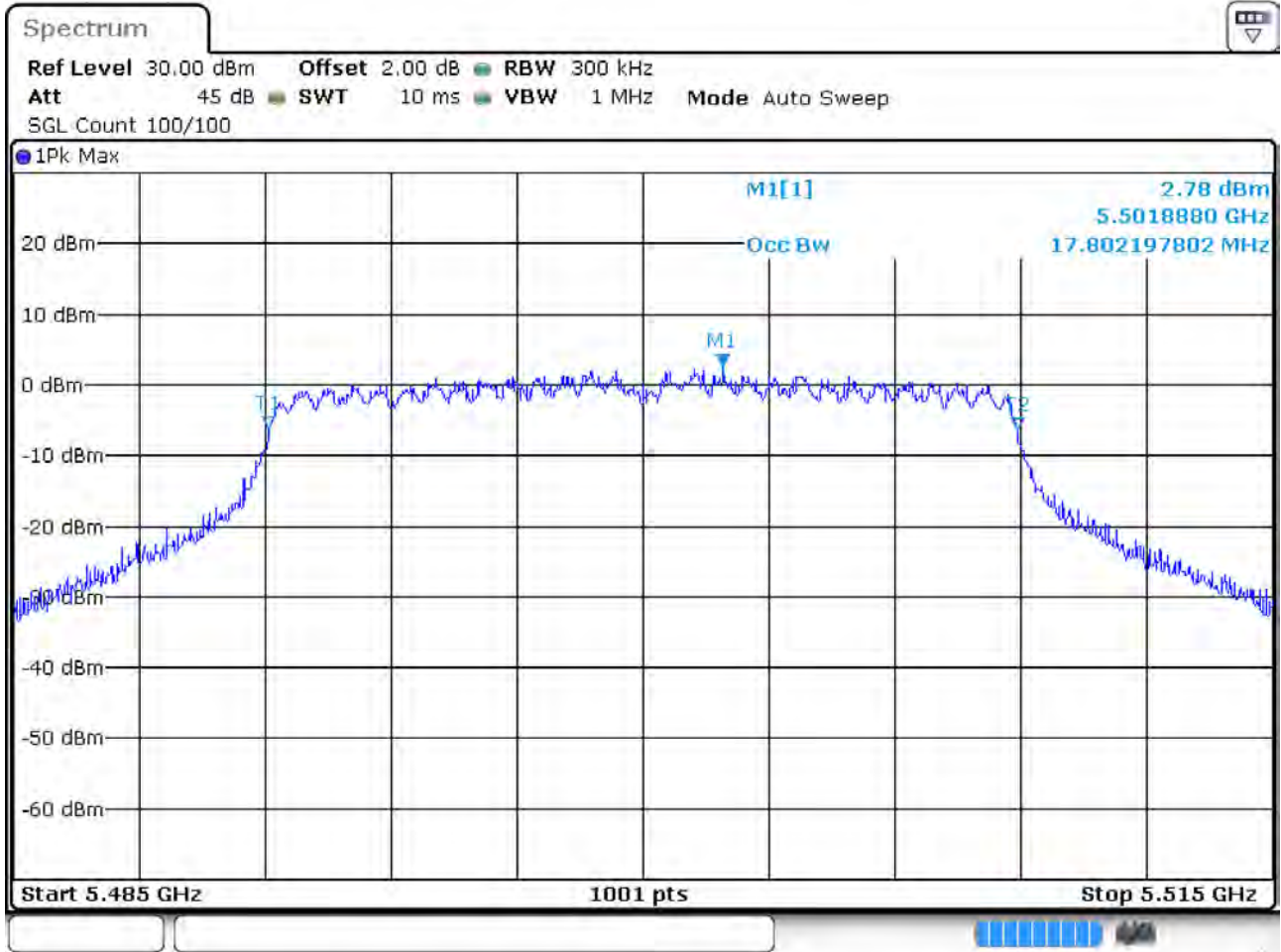
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4.7.2.42 11N20MIMO_100 ANT 2

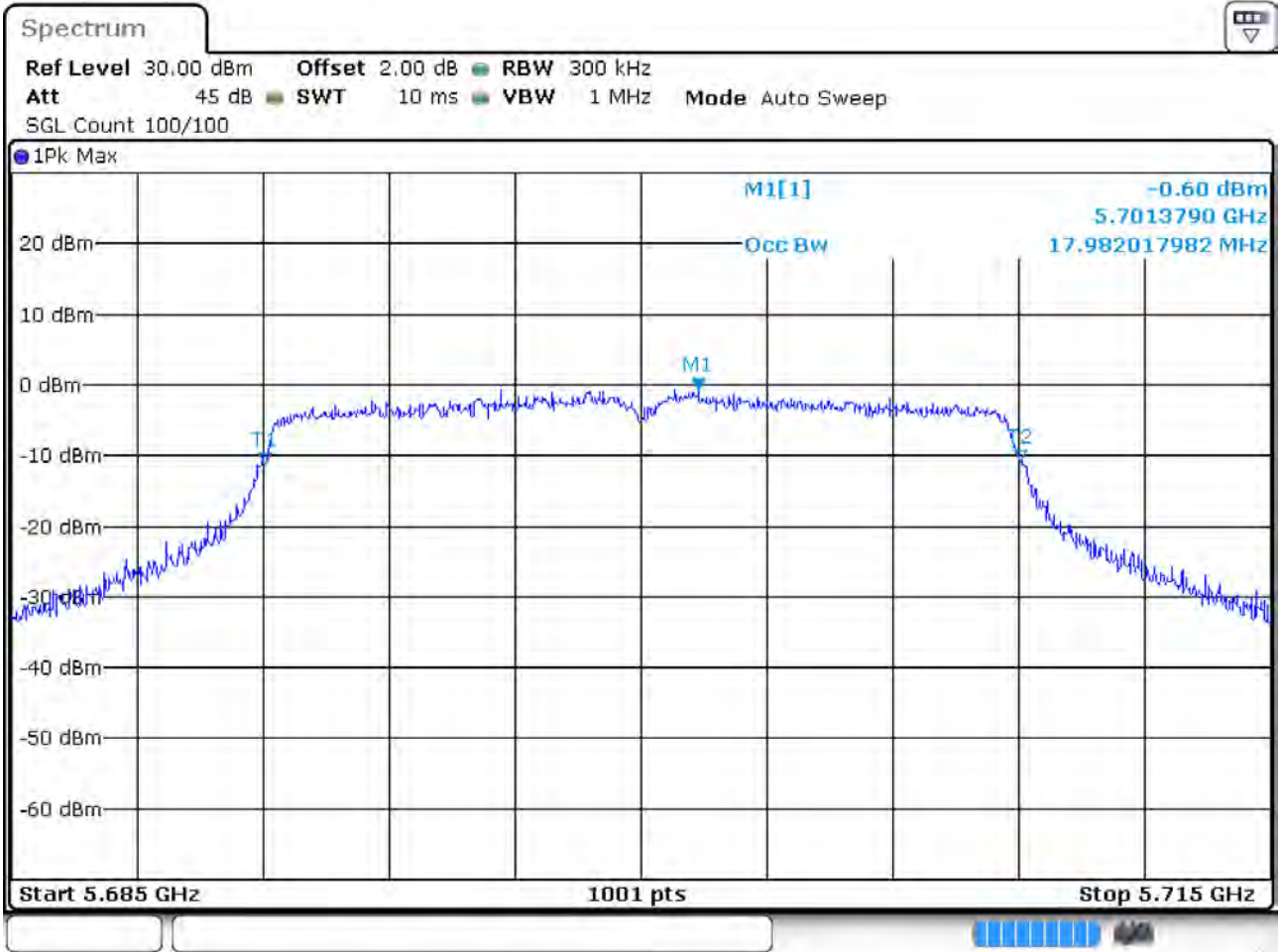


Date: 30 JUL 2019 06:12:47



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4.7.2.43 11N20MIMO_140 ANT 1



Date: 30 JUL 2019 05:58:10

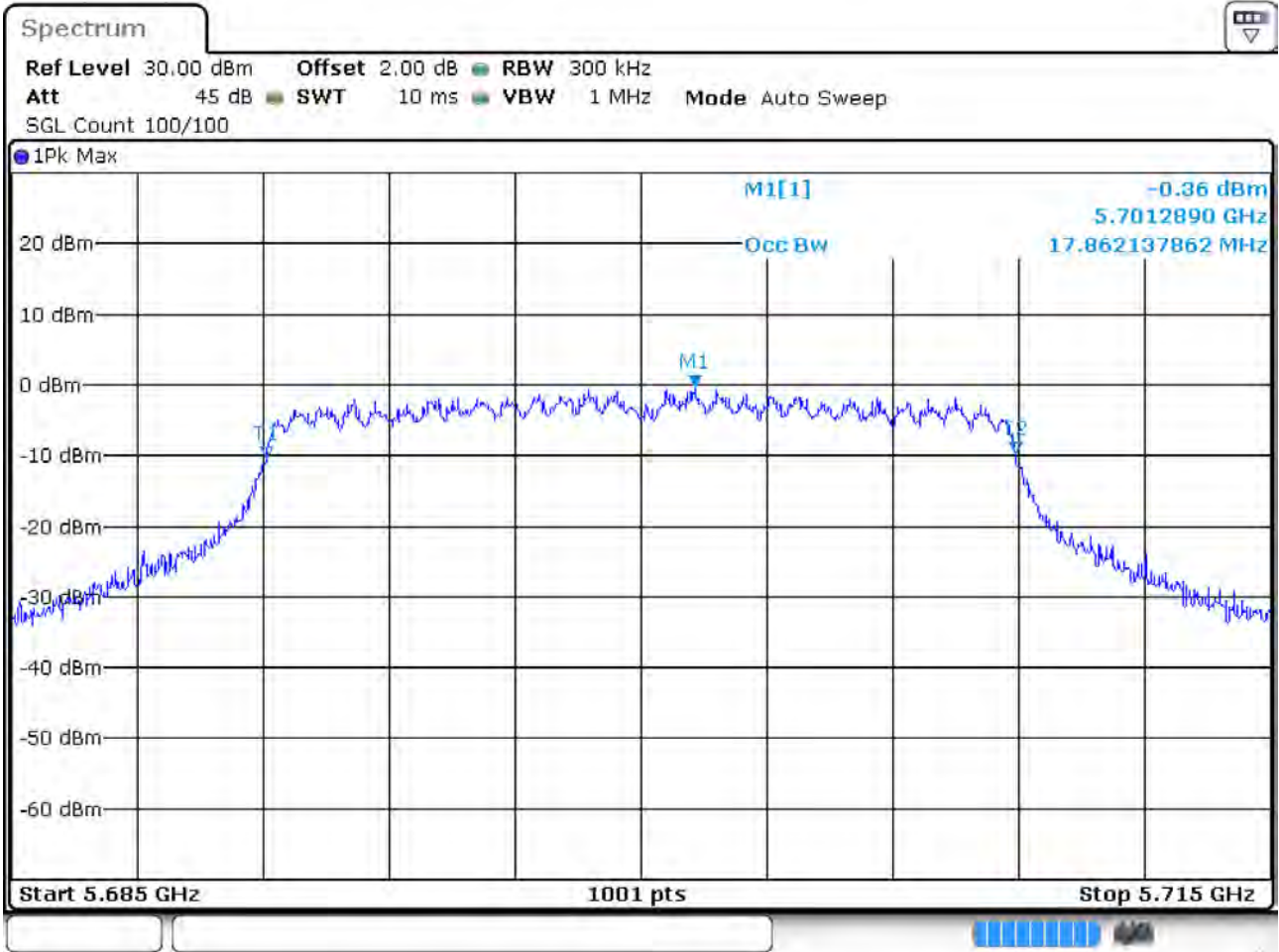


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4.7.2.44 11N20MIMO_140 ANT 2



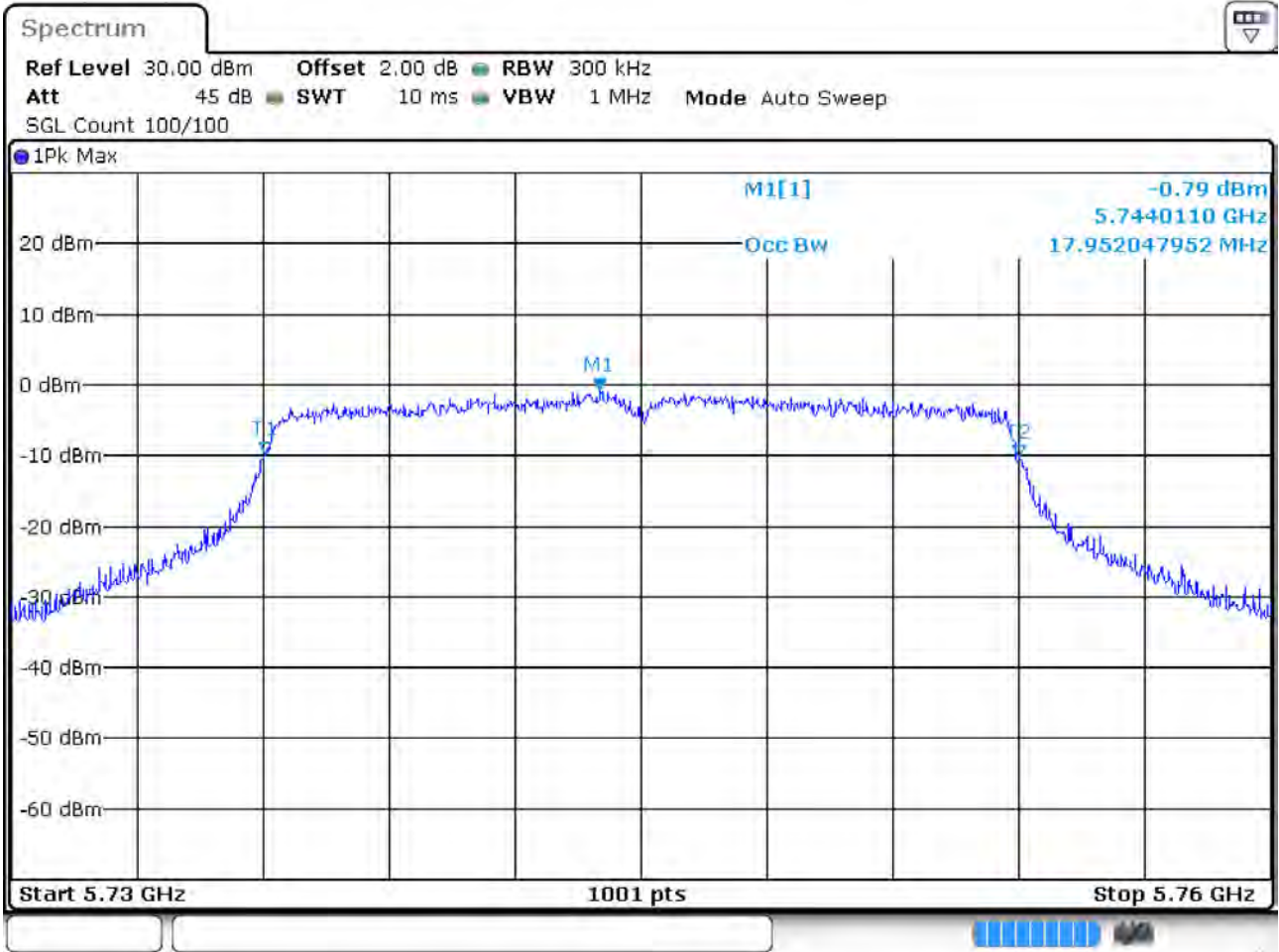
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4.7.2.45 11N20MIMO_149 ANT 1

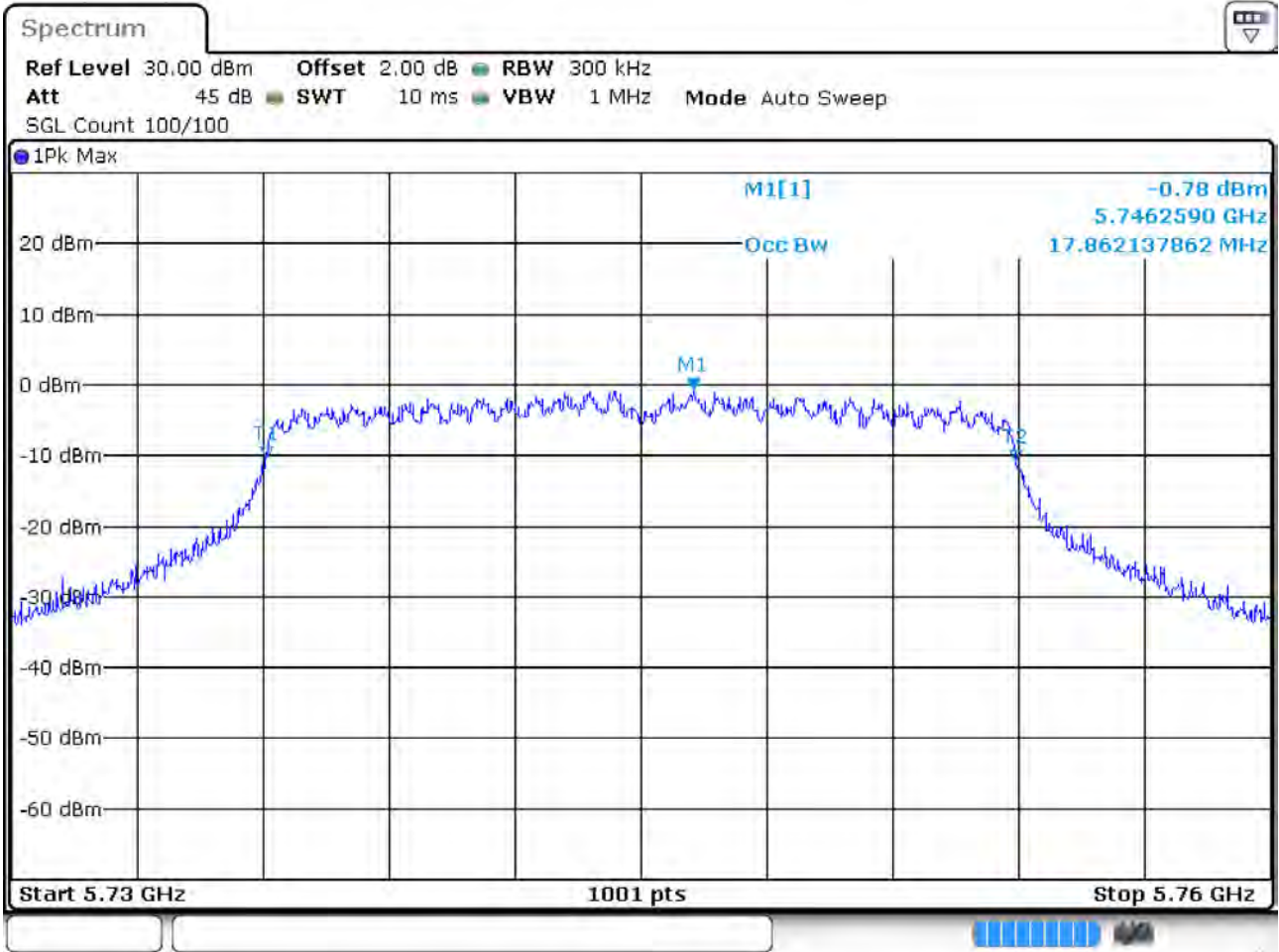


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4.7.2.46 11N20MIMO_149 ANT 2

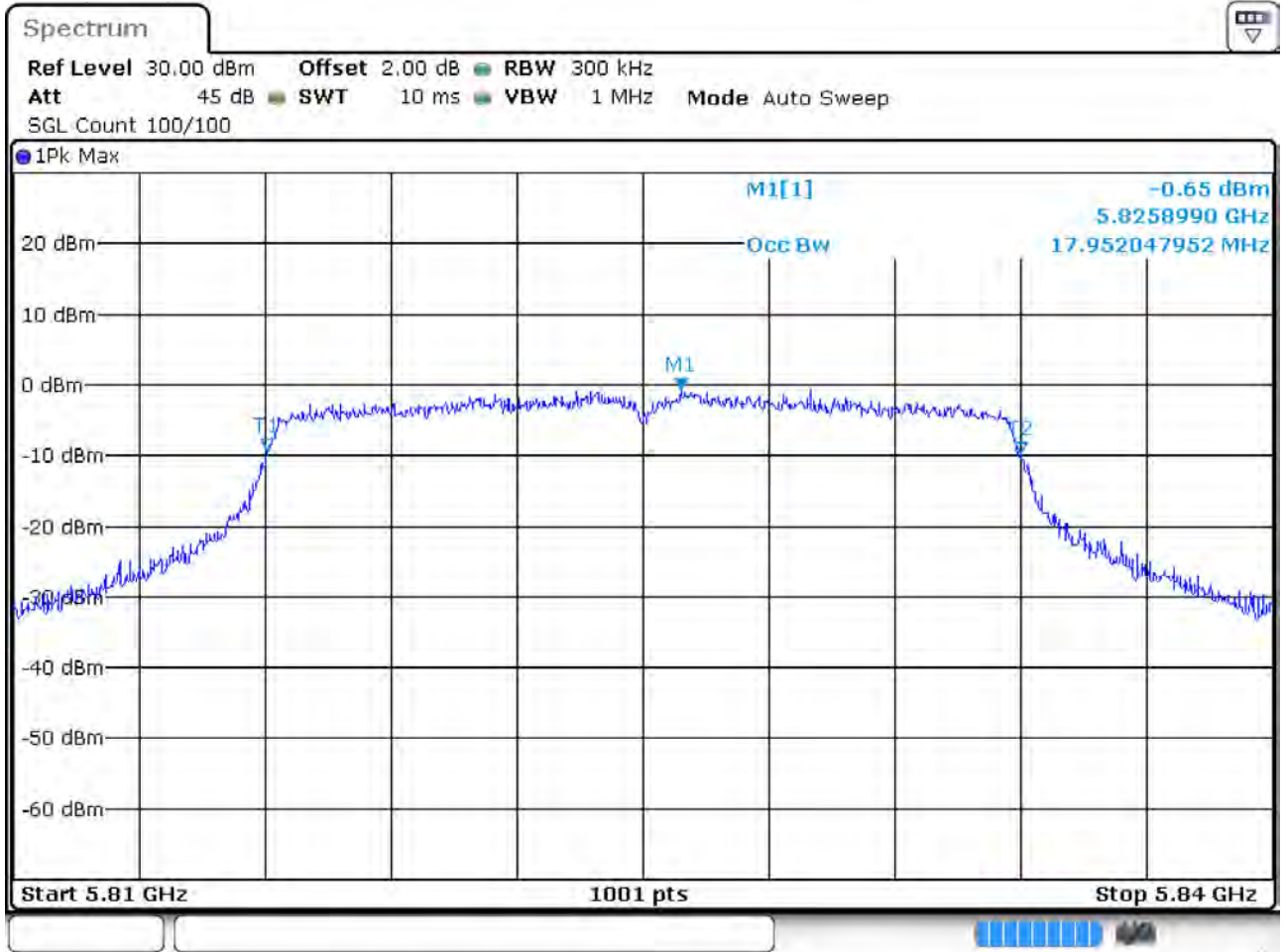


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4.7.2.47 11N20MIMO_165 ANT 1

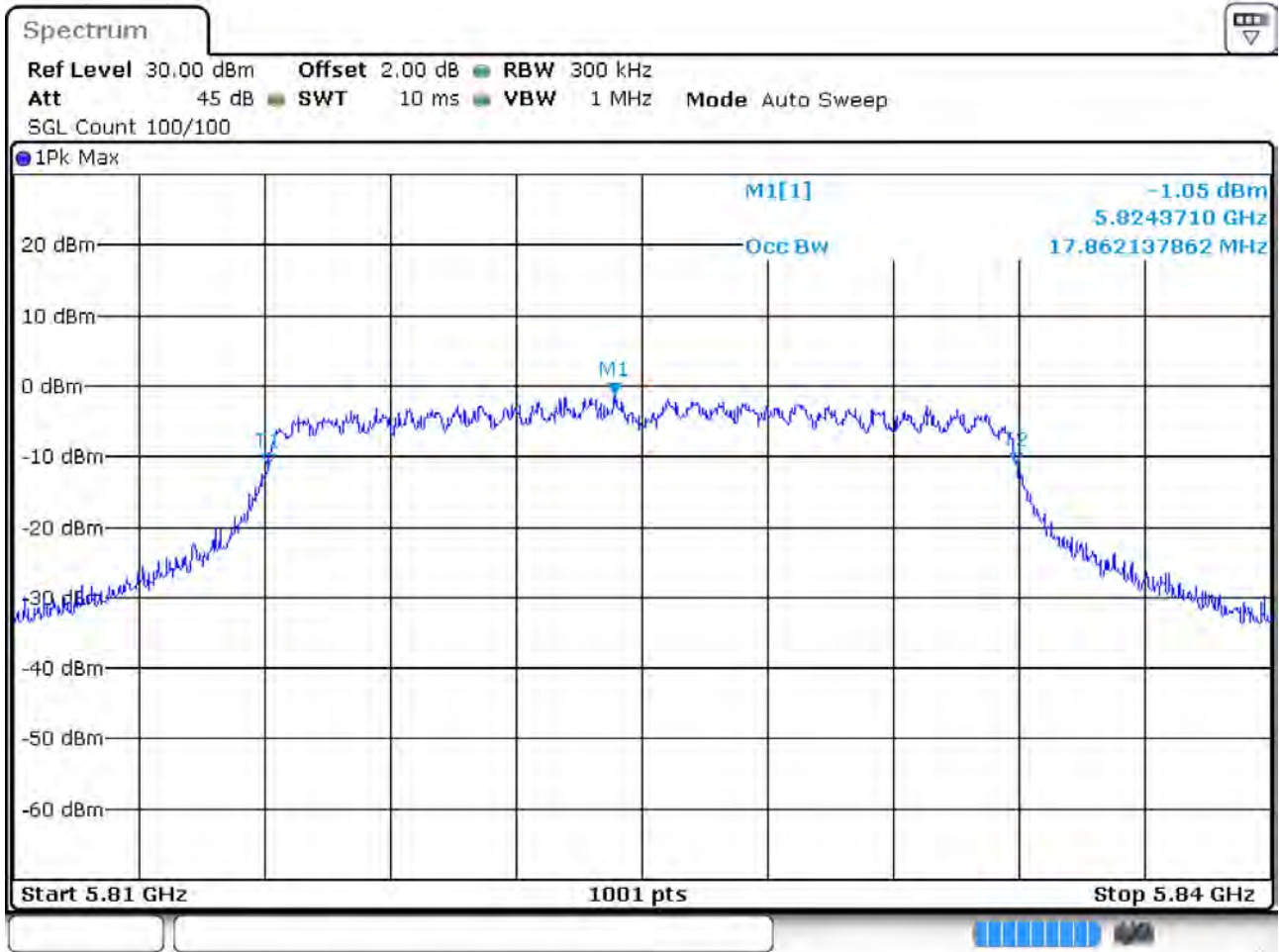


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4.7.2.48 11N20MIMO_165 ANT 2



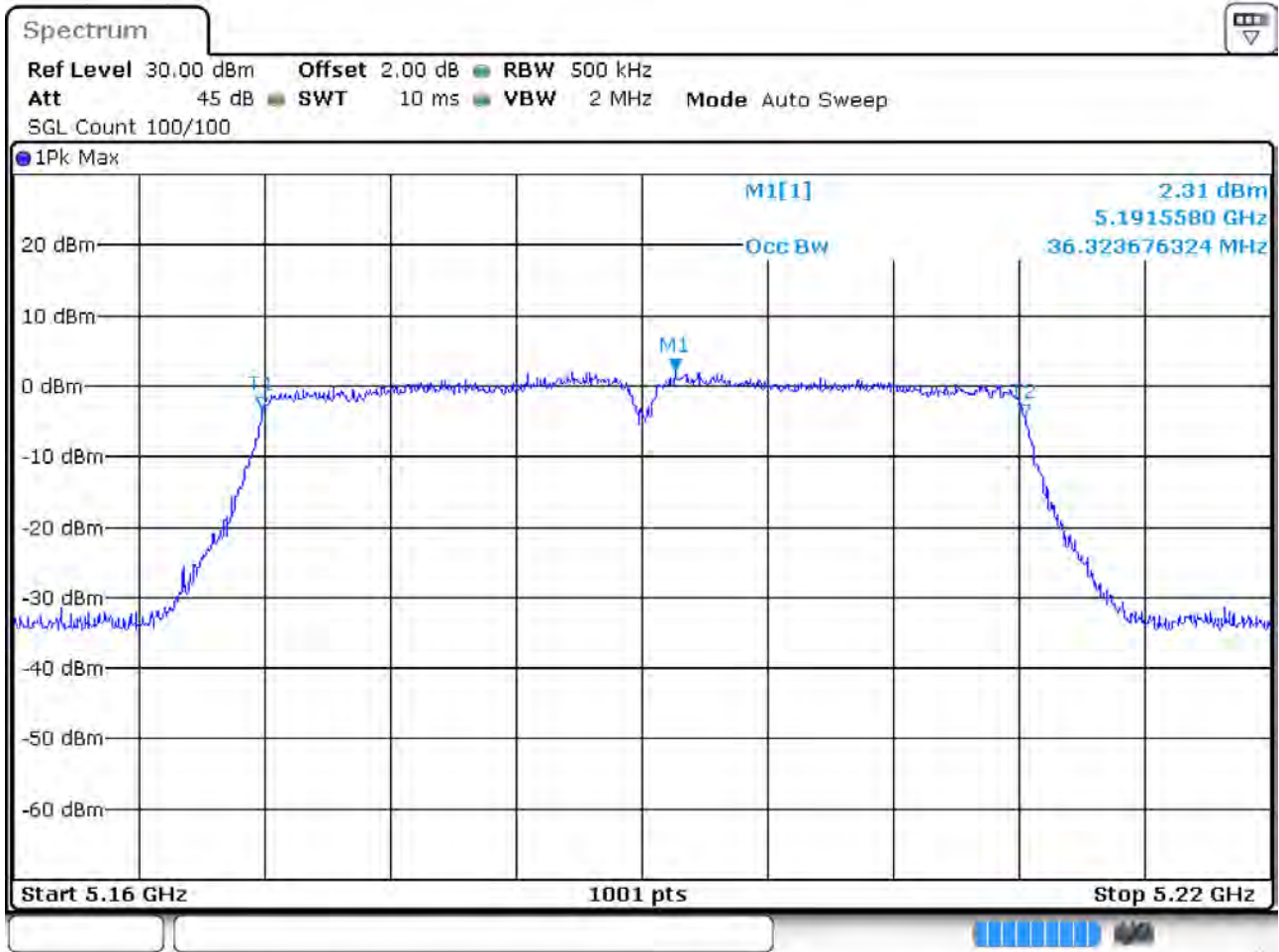
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4.7.2.49 11N40_38 ANT 1



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4.7.2.50 11N40_38 ANT 2

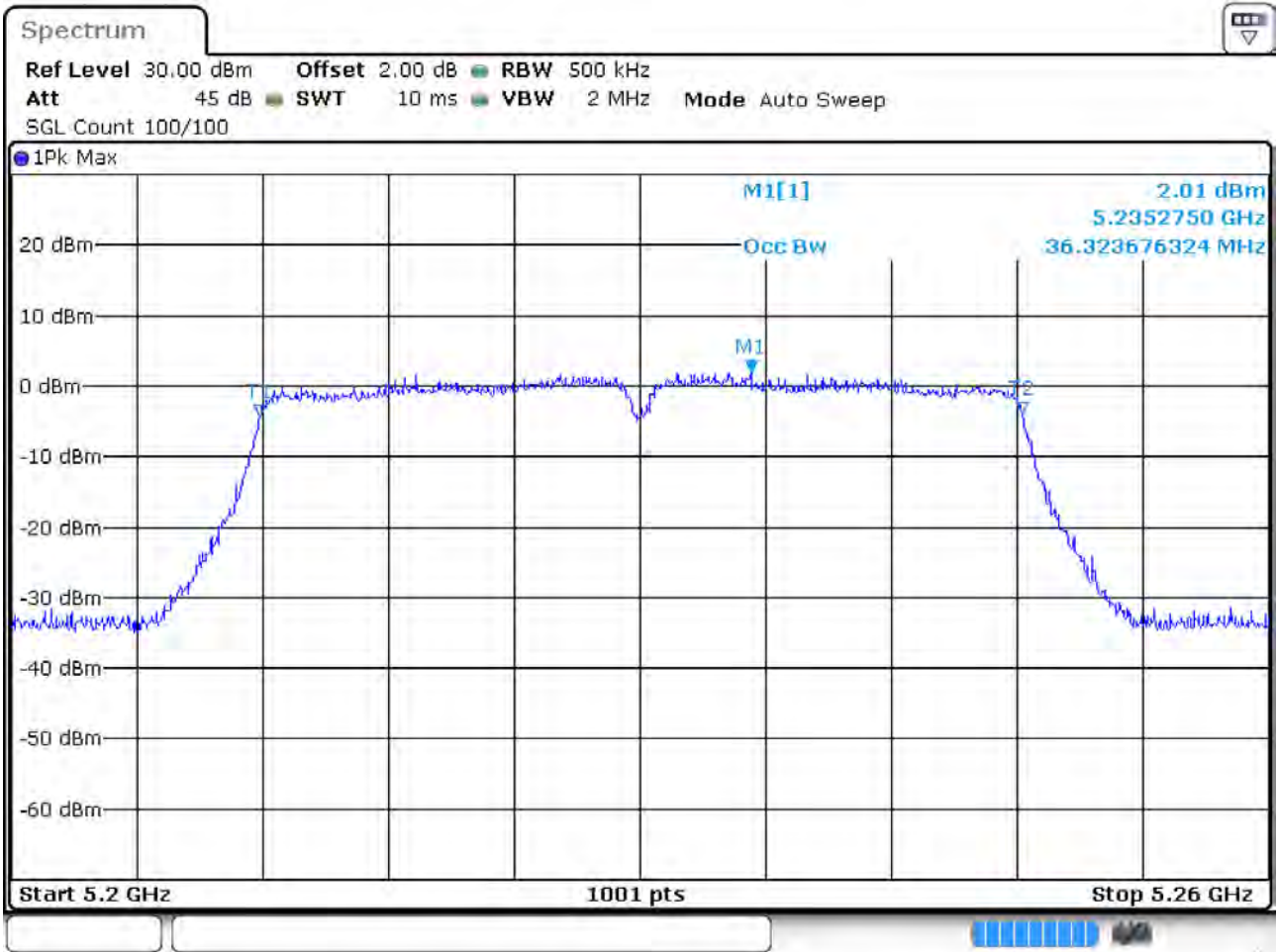


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4.7.2.51 11N40_46 ANT 1



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4.7.2.52 11N40_46 ANT 2



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4.7.2.53 11N40_54 ANT 1



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4.7.2.54 11N40_54 ANT 2

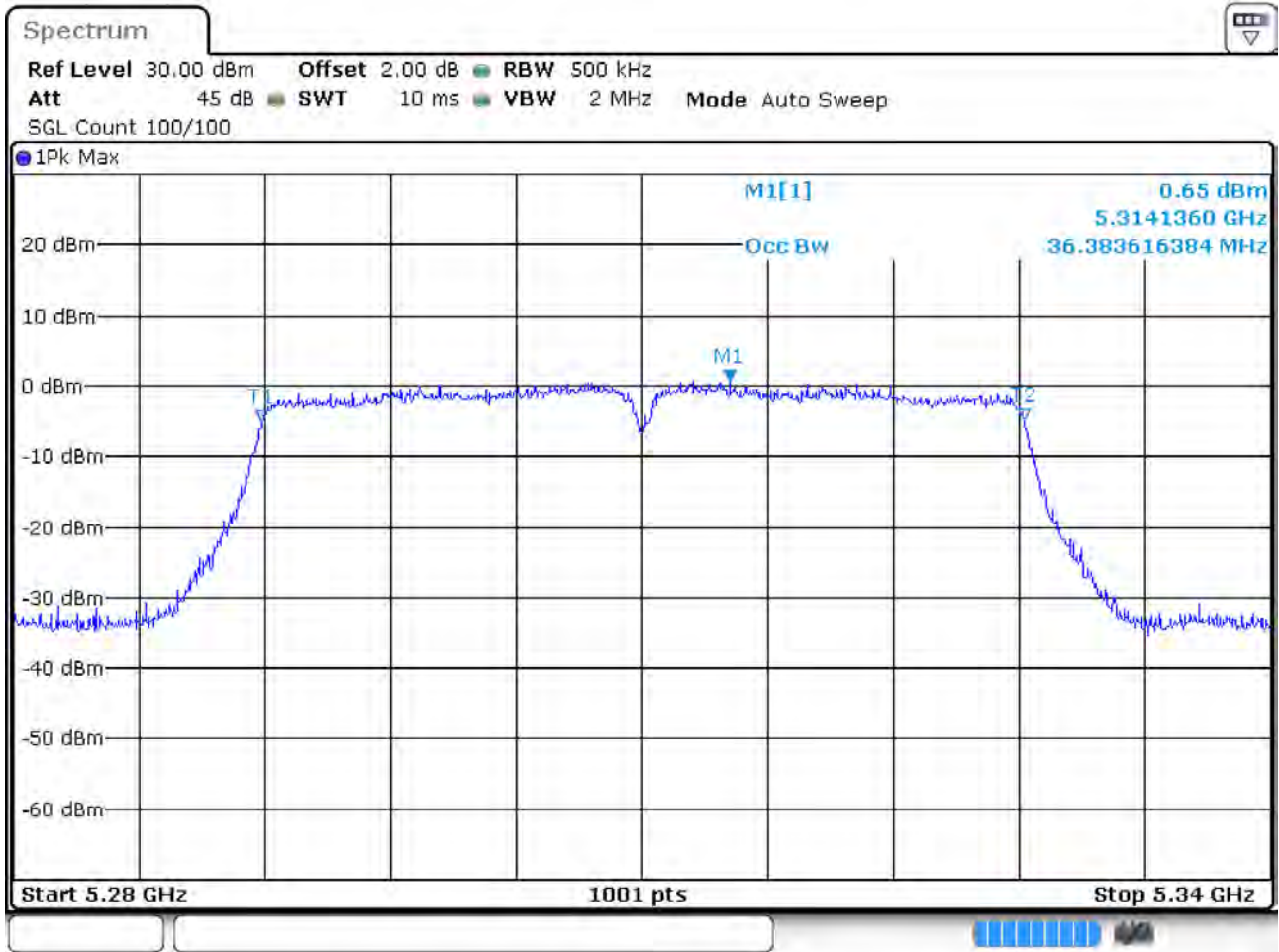


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4.7.2.55 11N40_62 ANT 1



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4.7.2.56 11N40_62 ANT 2



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4.7.2.57 11N40_102 ANT 1



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4.7.2.58 11N40_102 ANT 2



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4.7.2.59 11N40_134 ANT 1



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4.7.2.60 11N40_134 ANT 2



Date: 30 JUL 2019 01:50:31



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4.7.2.61 11N40_151 ANT 1



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4.7.2.62 11N40_151 ANT 2



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4.7.2.63 11N40_159 ANT 1



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4.7.2.64 11N40_159 ANT 2

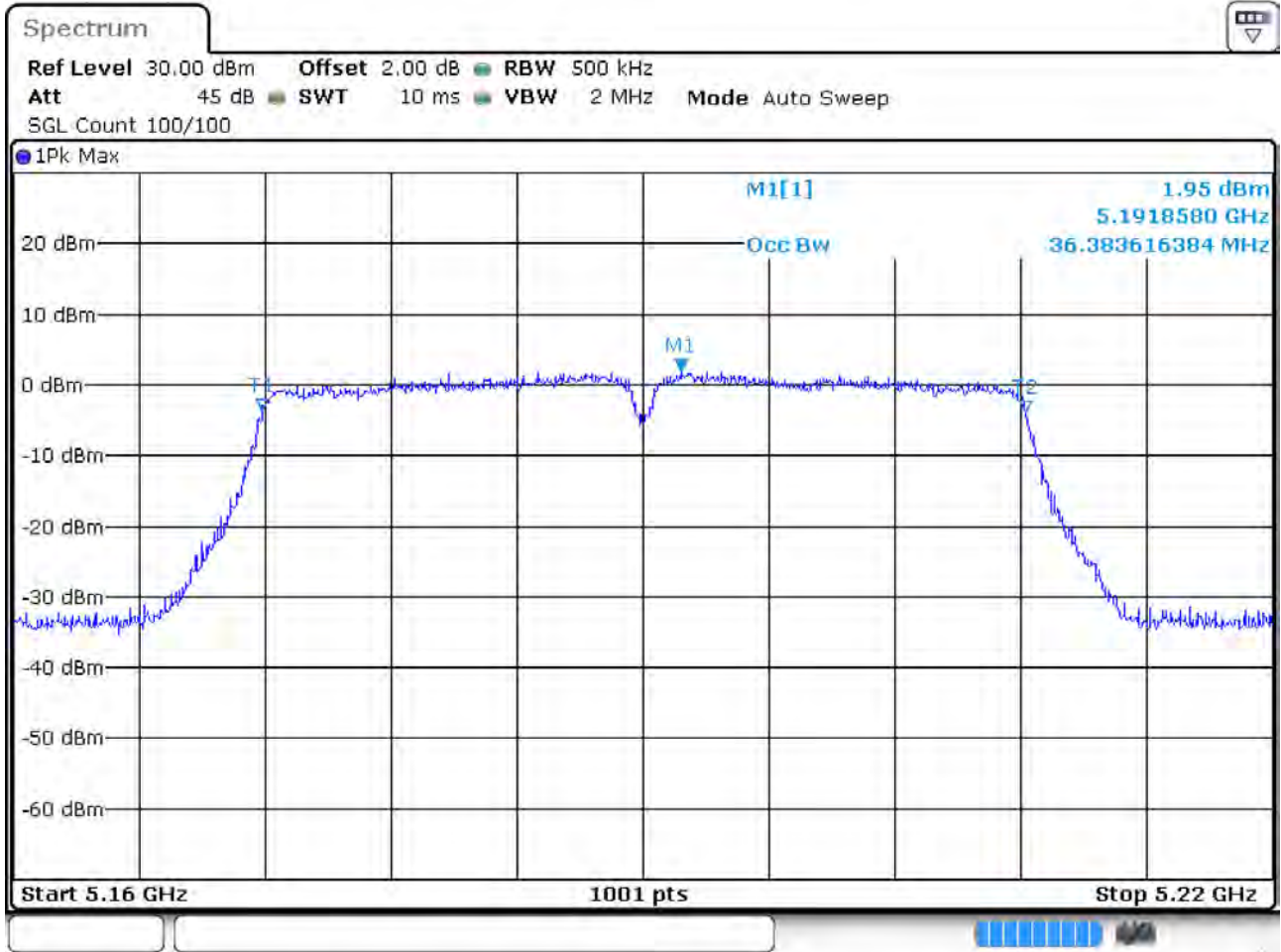


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4.7.2.65 11N40MIMO_38 ANT 1



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4.7.2.66 11N40MIMO_38 ANT 2

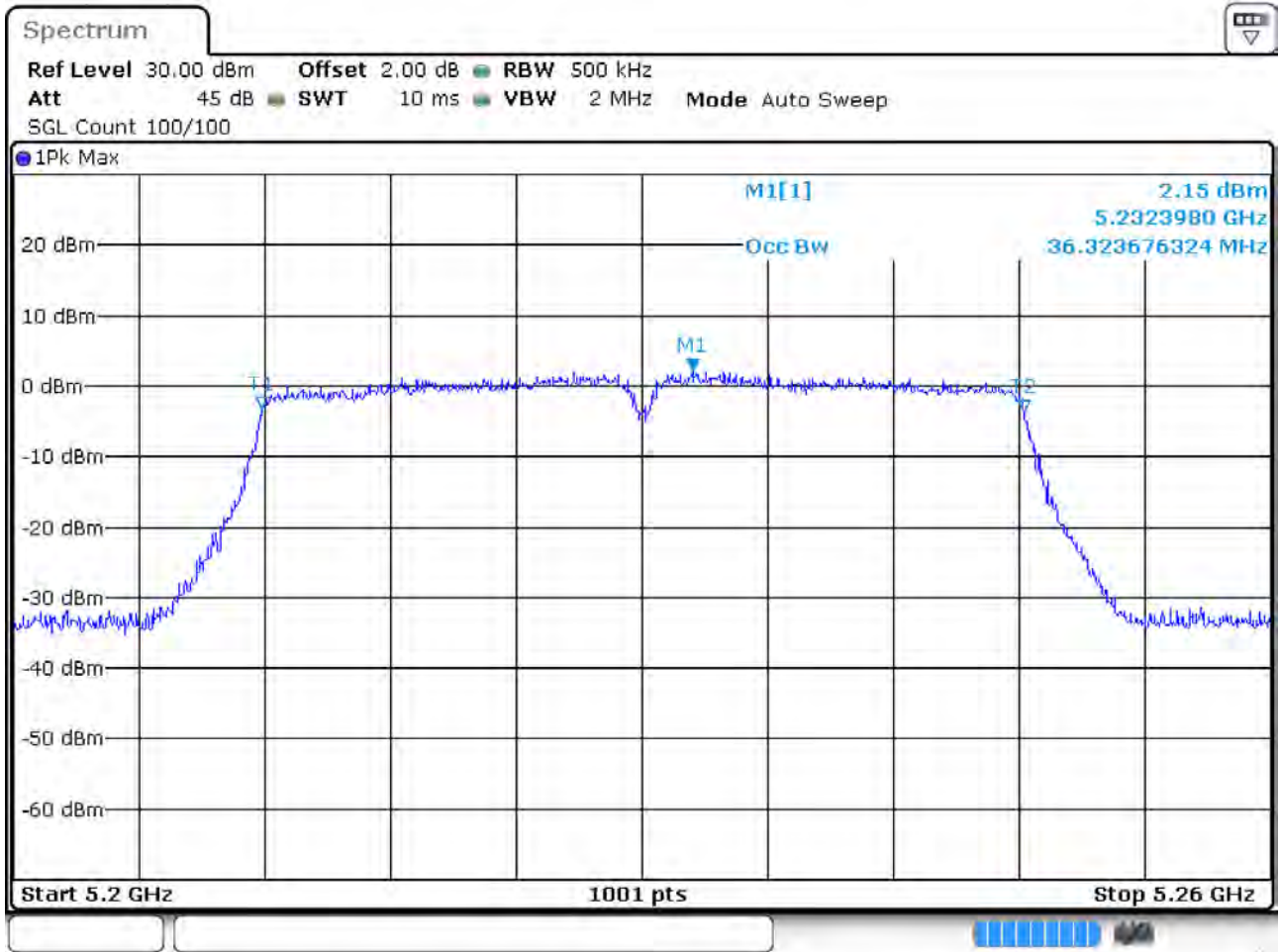


Date: 30 JUL 2019 06:22:25



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4.7.2.67 11N40MIMO_46 ANT 1



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4.7.2.68 11N40MIMO_46 ANT 2

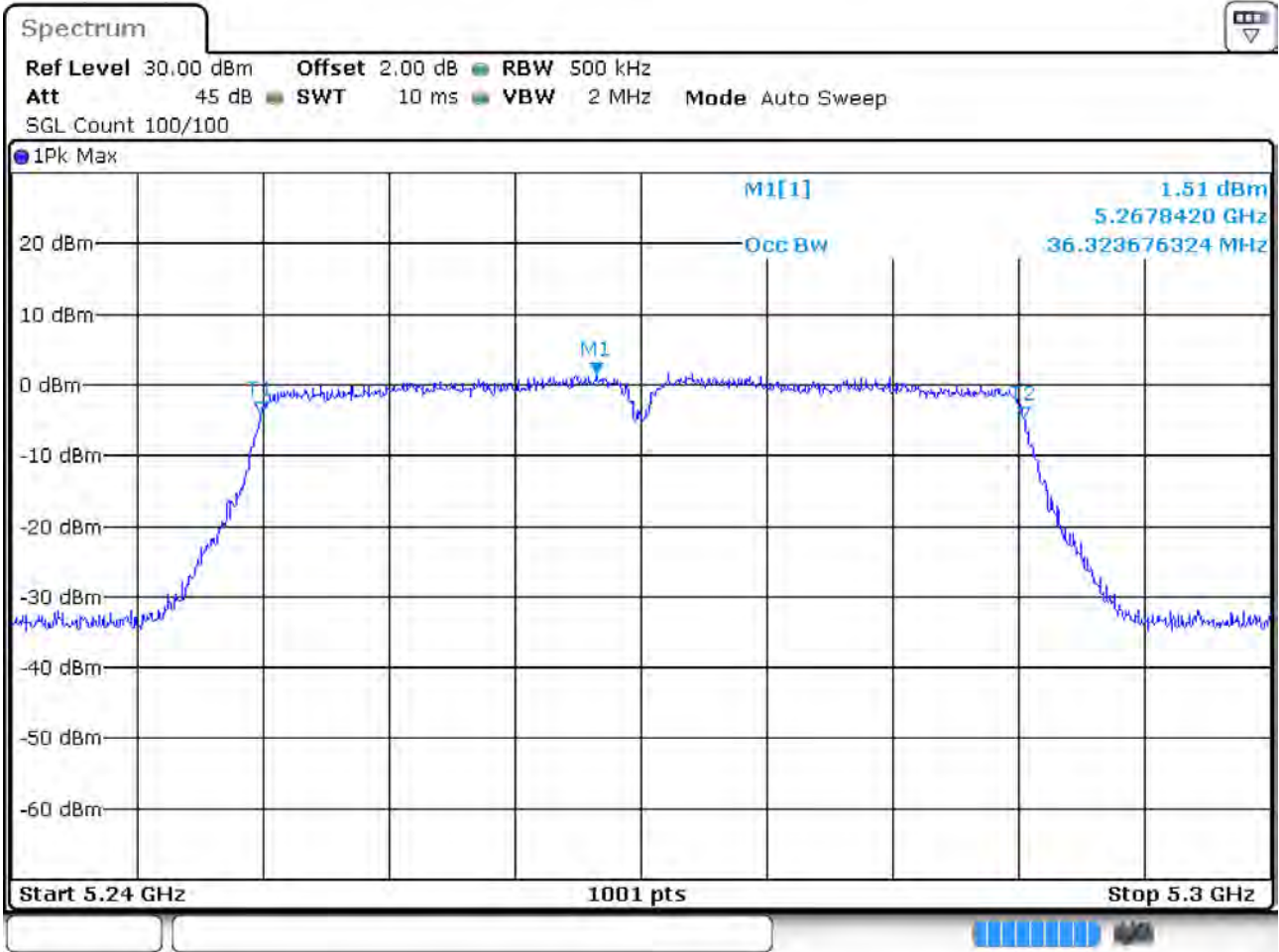


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4.7.2.69 11N40MIMO_54 ANT 1



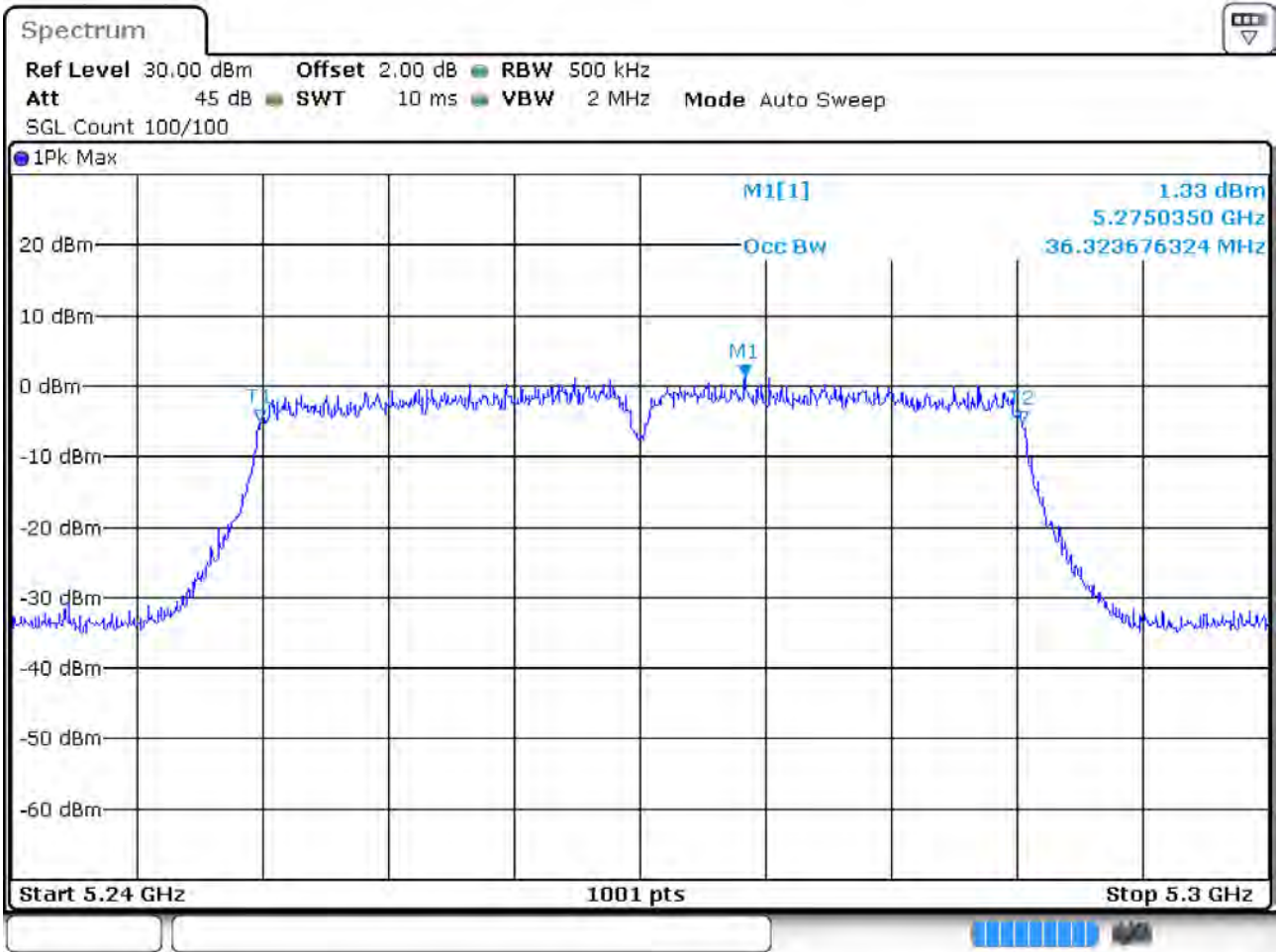
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4.7.2.70 11N40MIMO_54 ANT 2

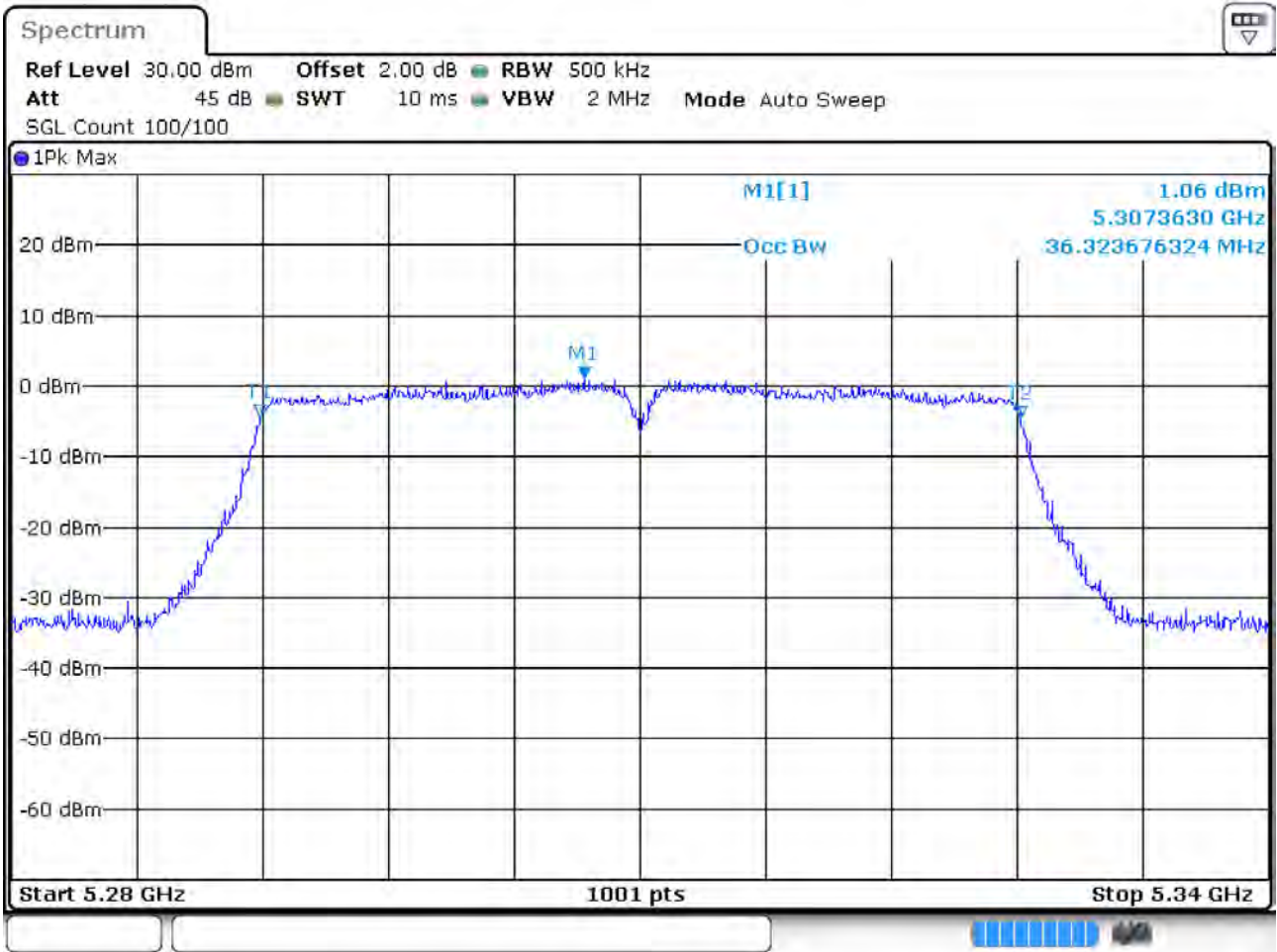


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4.7.2.71 11N40MIMO_62 ANT 1



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