

**4.5.1.92 11AX20MIMO\_52T\_140 ANT 2**



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**4.5.1.93 11AX20MIMO\_106T\_36 ANT 1**



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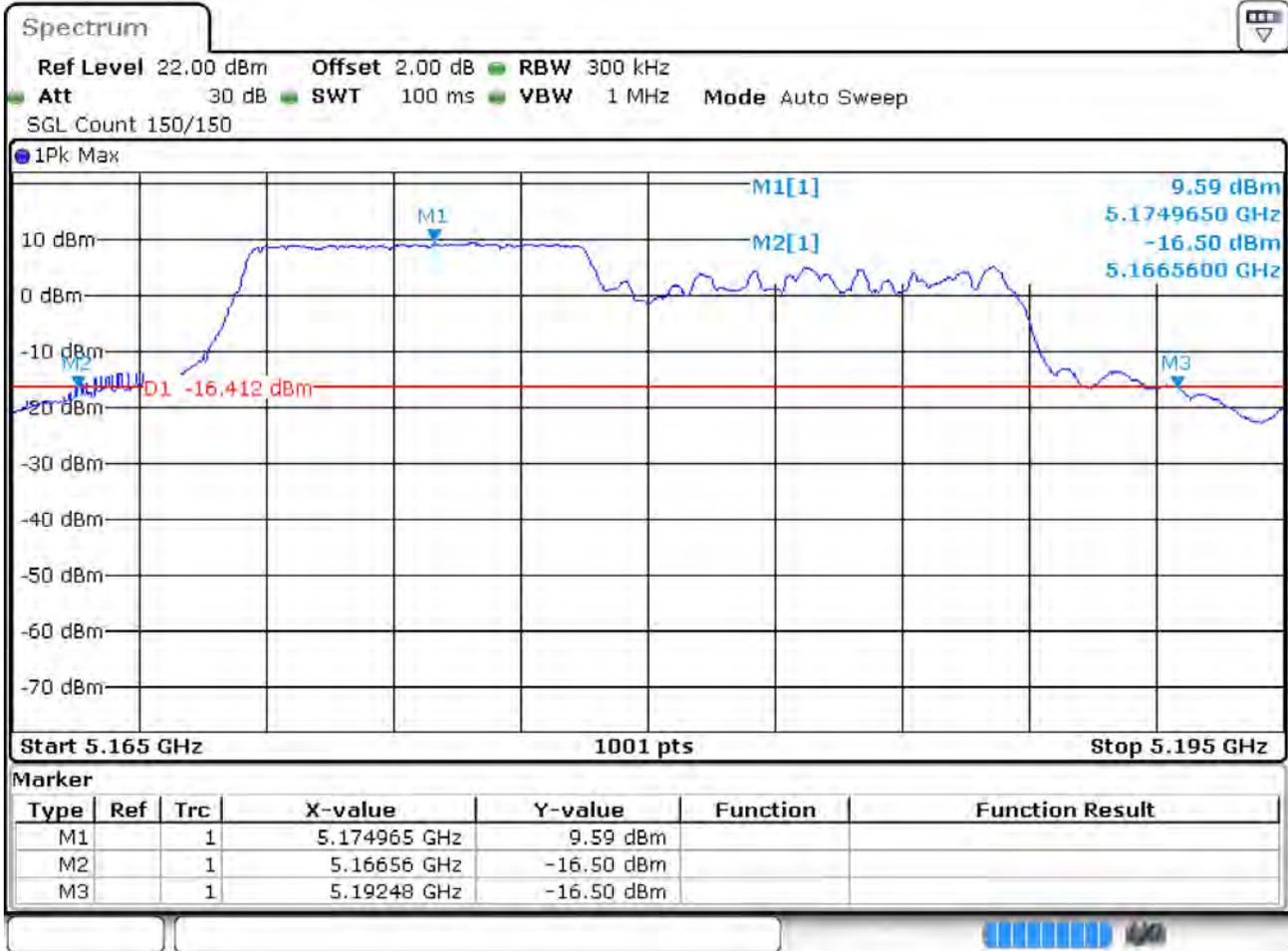


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**4.5.1.94 11AX20MIMO\_106T\_36 ANT 2**



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**4.5.1.95 11AX20MIMO\_106T\_48 ANT 1**

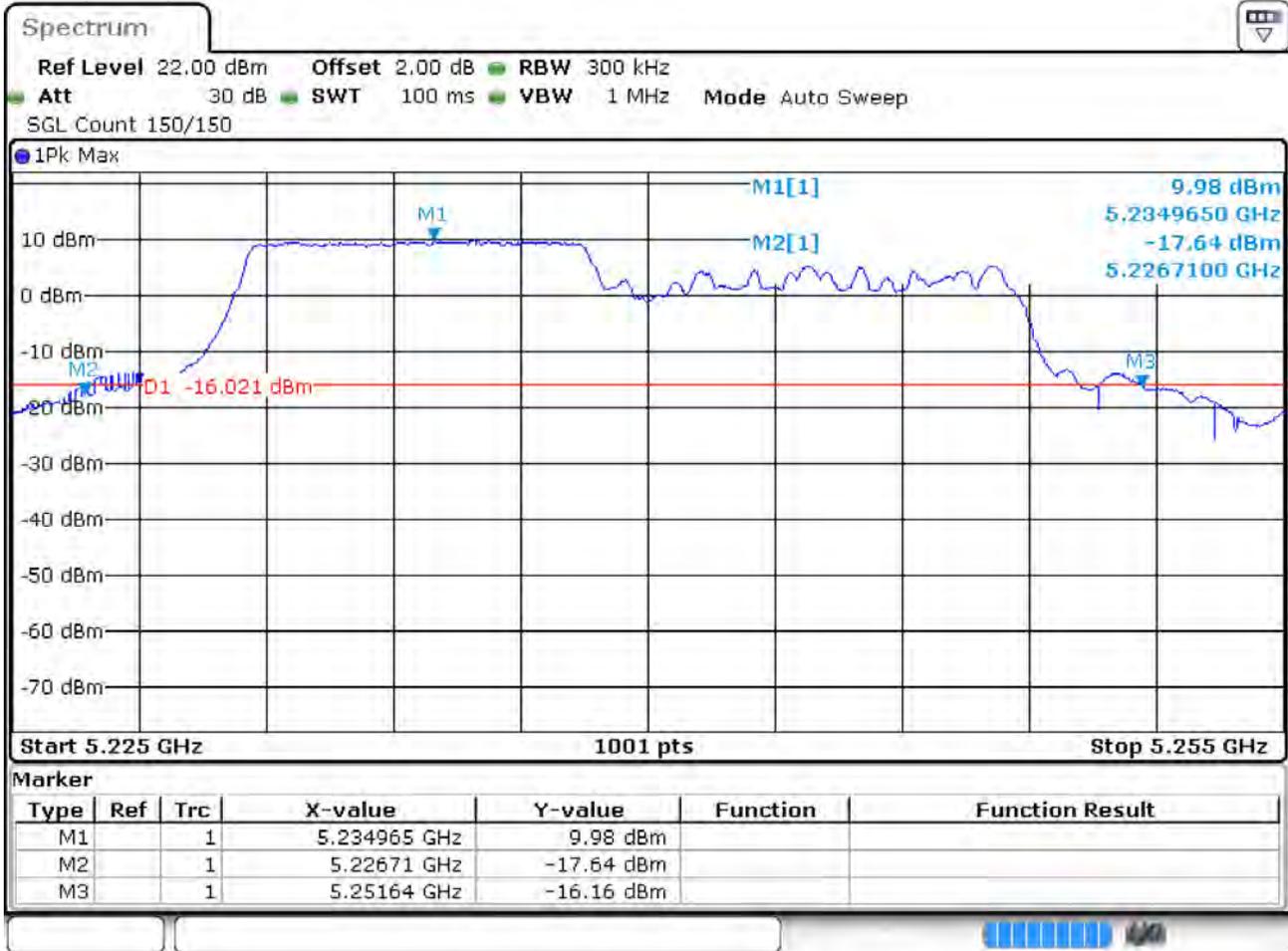


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**4.5.1.96 11AX20MIMO\_106T\_48 ANT 2**



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**4.5.1.97 11AX20MIMO\_106T\_52 ANT 1**



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**4.5.1.98 11AX20MIMO\_106T\_52 ANT 2**



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**4.5.1.99 11AX20MIMO\_106T\_64 ANT 1**



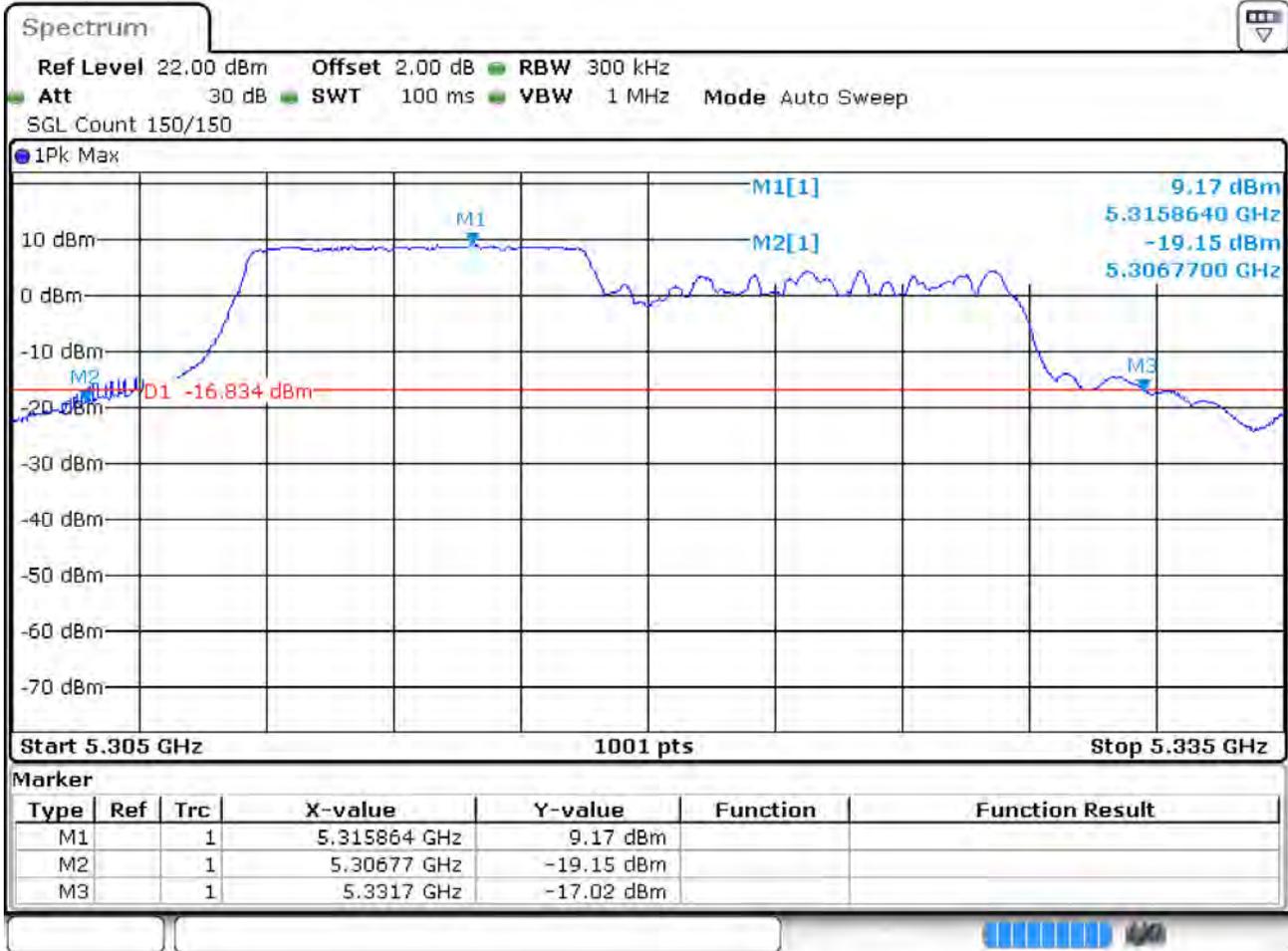
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**4.5.1.100 11AX20MIMO\_106T\_64 ANT 2**



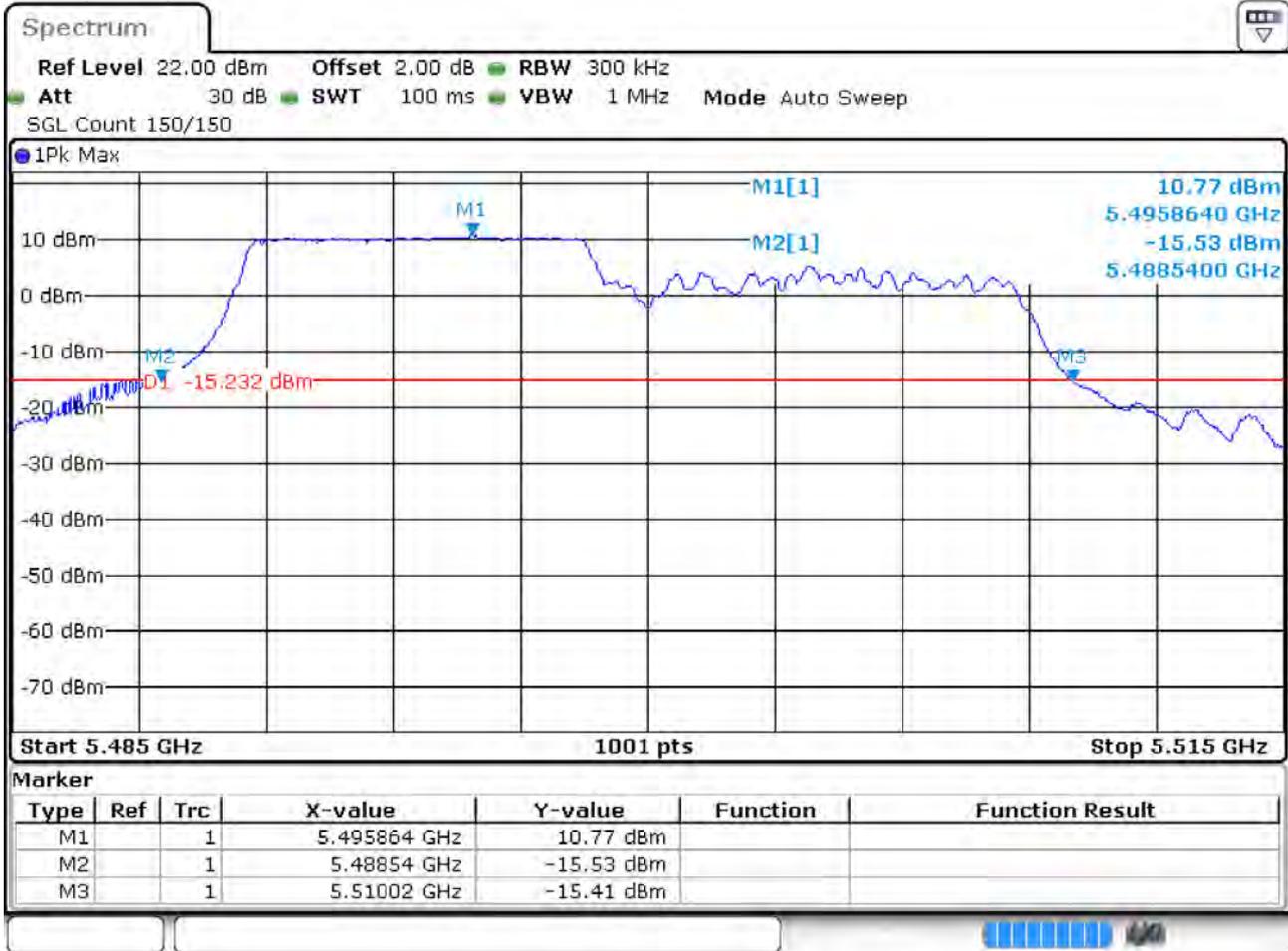
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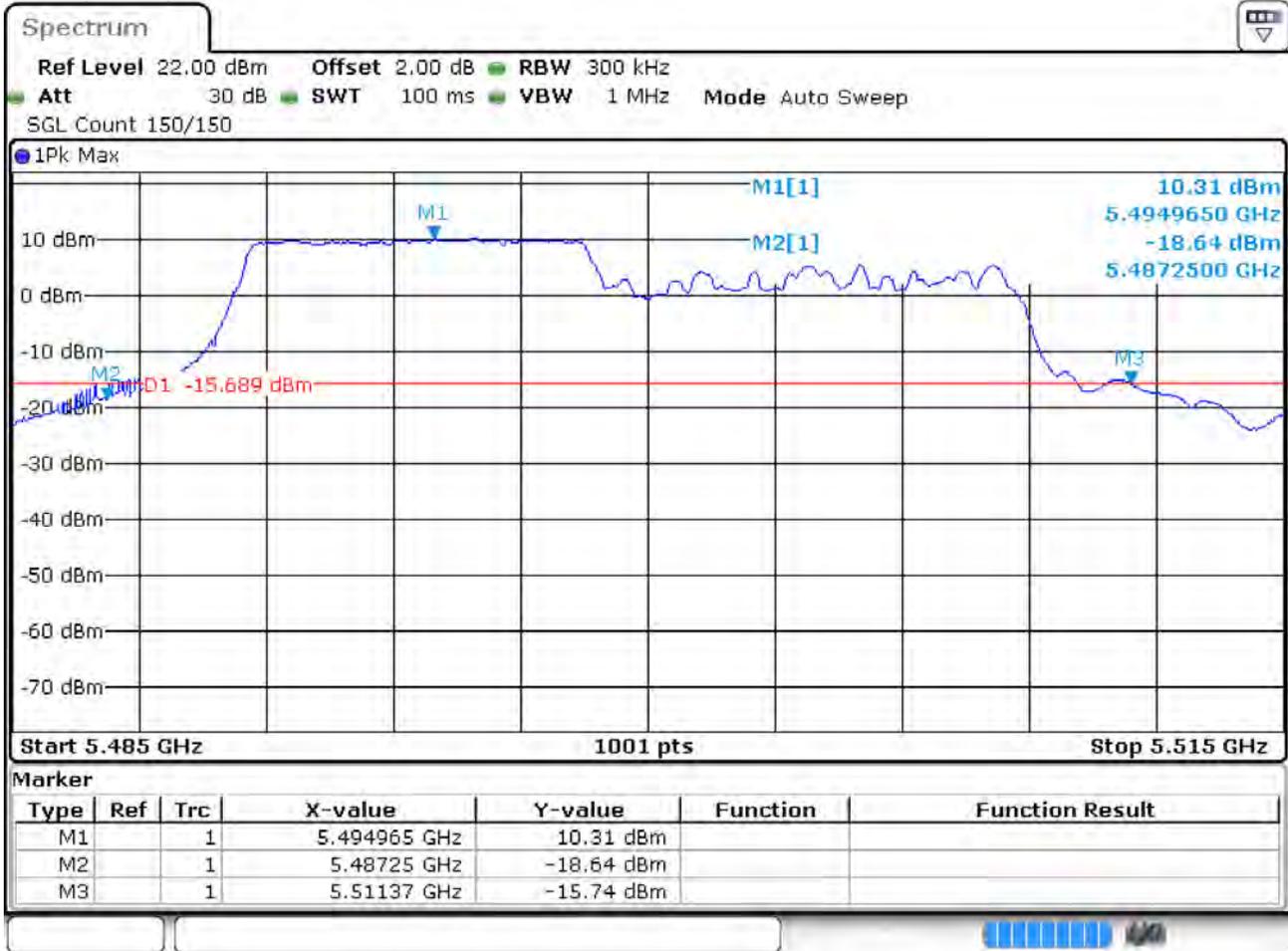
**4.5.1.101 11AX20MIMO\_106T\_100 ANT 1**



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**4.5.1.102 11AX20MIMO\_106T\_100 ANT 2**



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**4.5.1.103 11AX20MIMO\_106T\_140 ANT 1**



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**4.5.1.104 11AX20MIMO\_106T\_140 ANT 2**



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**4.5.1.105 11AX20MIMO\_242T\_36 ANT 1**

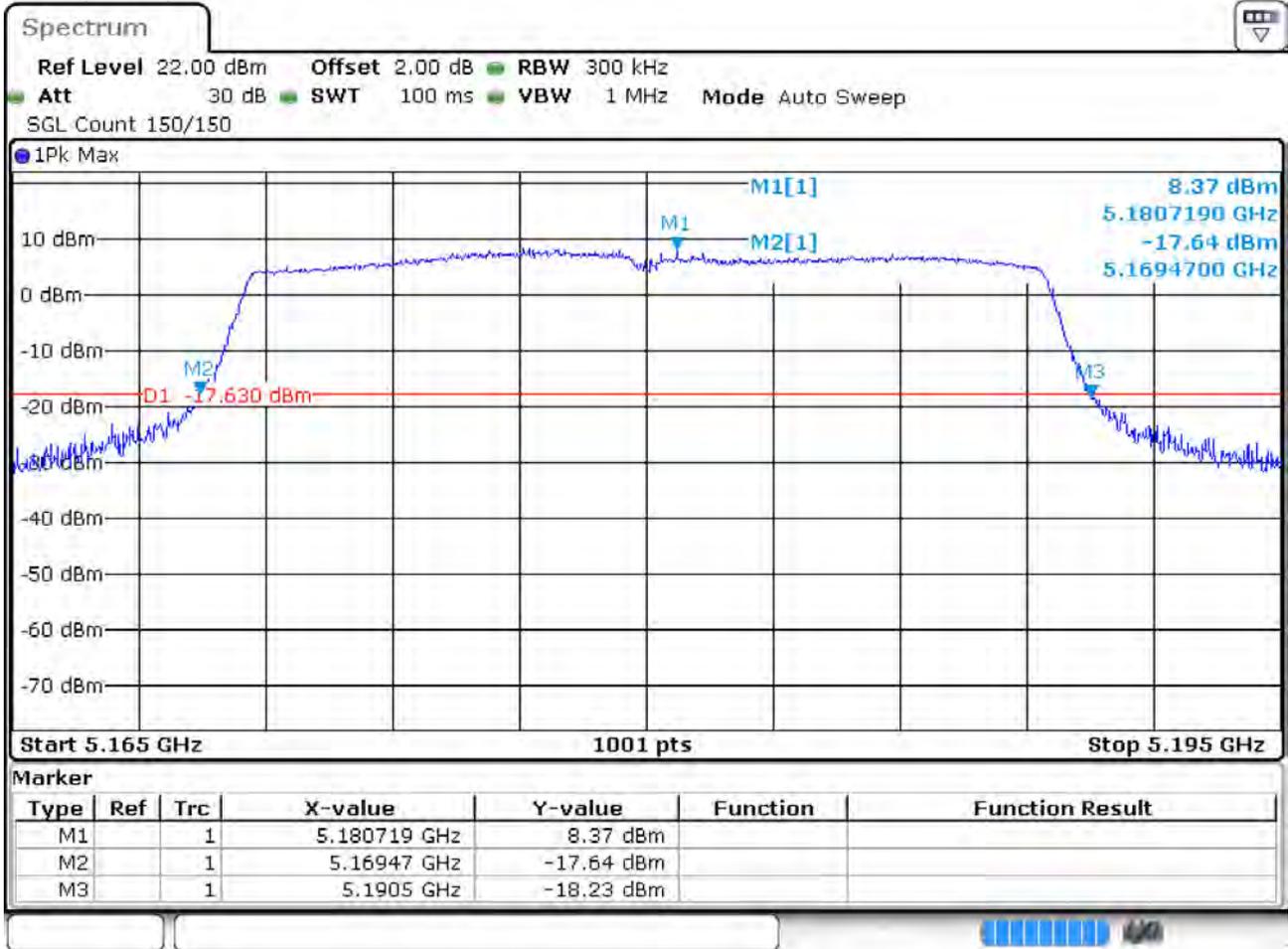


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**4.5.1.106 11AX20MIMO\_242T\_36 ANT 2**



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**4.5.1.107 11AX20MIMO\_242T\_48 ANT 1**



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**4.5.1.108 11AX20MIMO\_242T\_48 ANT 2**



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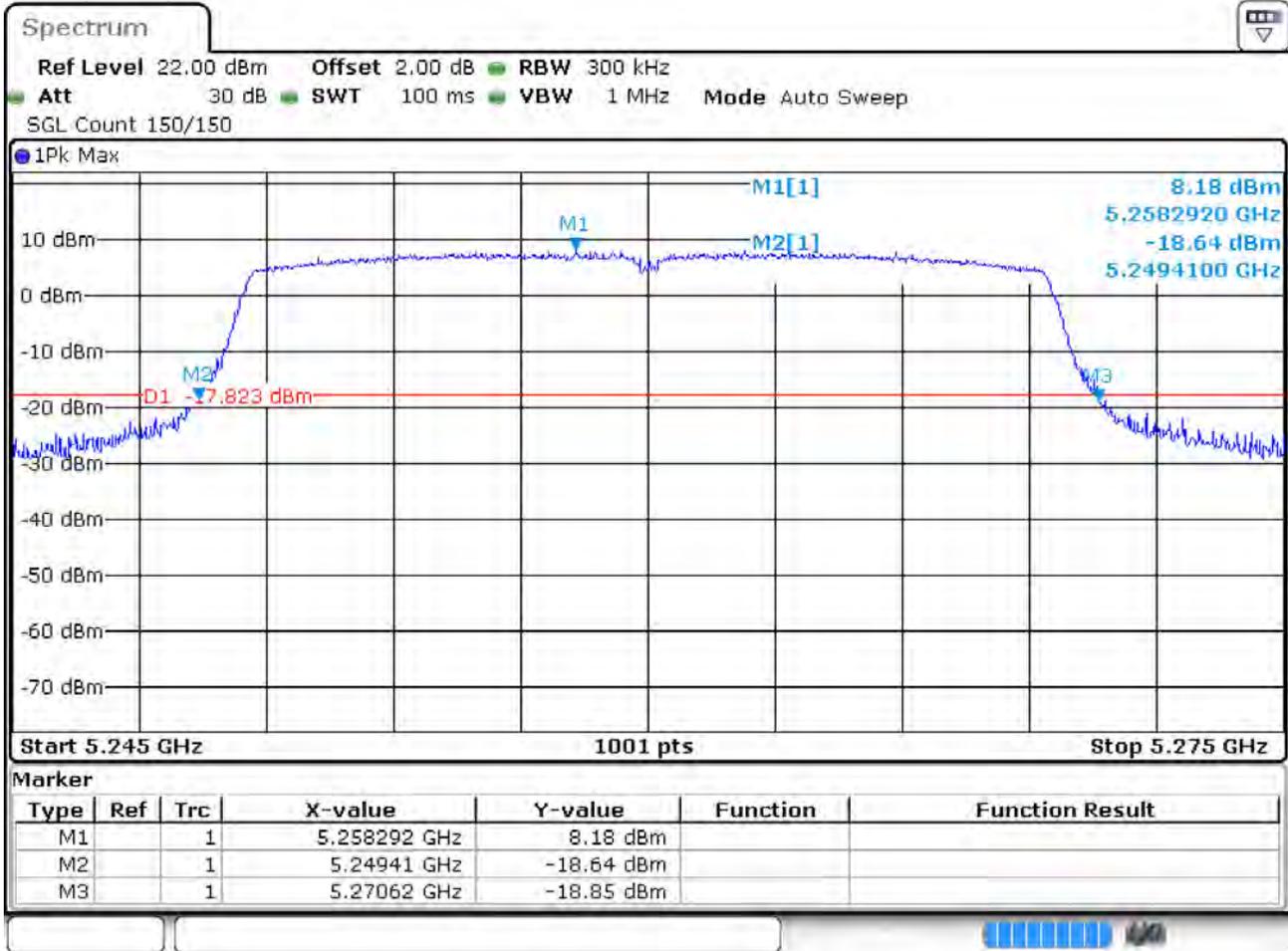


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**4.5.1.109 11AX20MIMO\_242T\_52 ANT 1**



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**4.5.1.110 11AX20MIMO\_242T\_52 ANT 2**



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**4.5.1.111 11AX20MIMO\_242T\_64 ANT 1**



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**4.5.1.112 11AX20MIMO\_242T\_64 ANT 2**



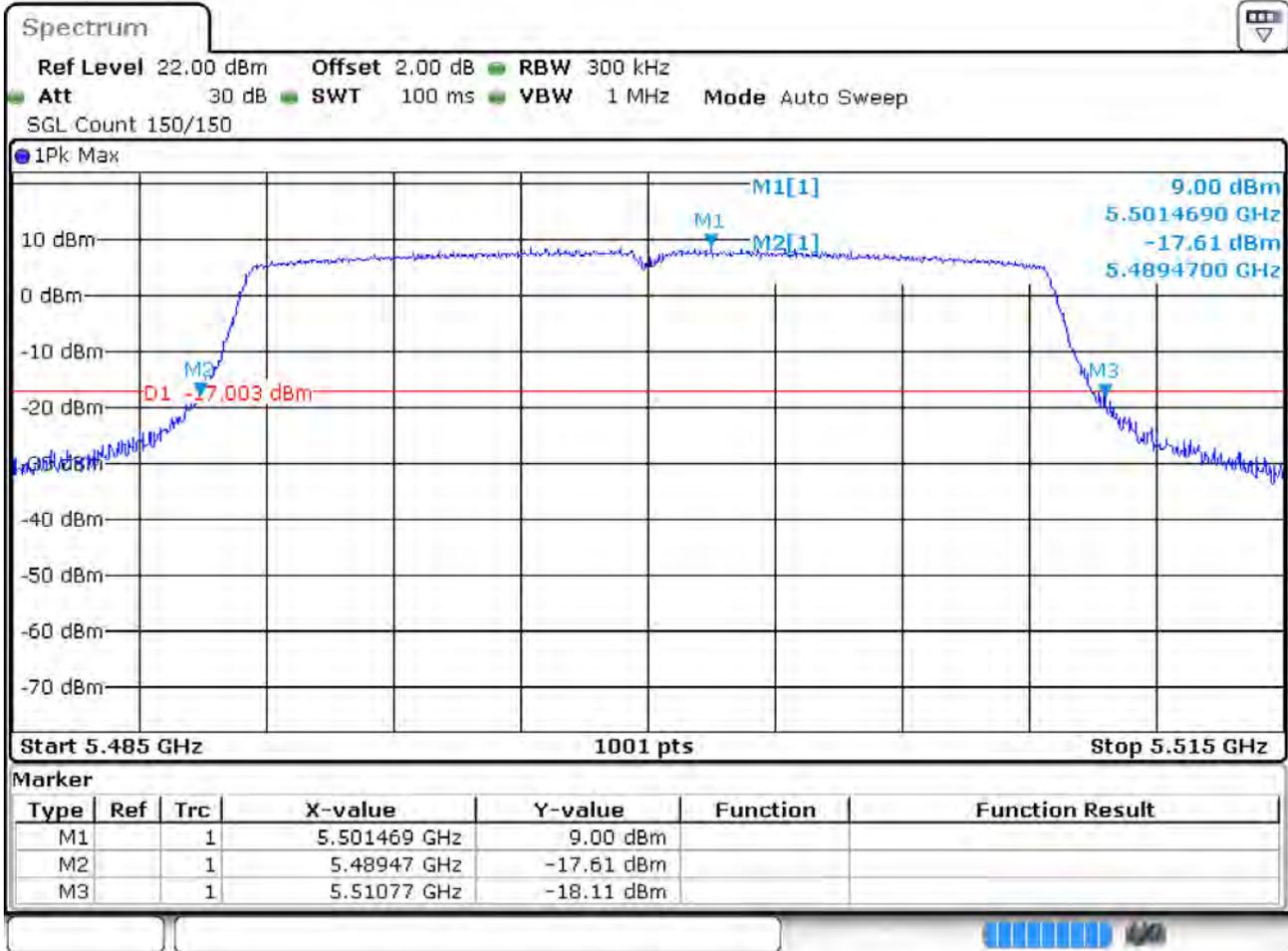
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**4.5.1.113 11AX20MIMO\_242T\_100 ANT 1**



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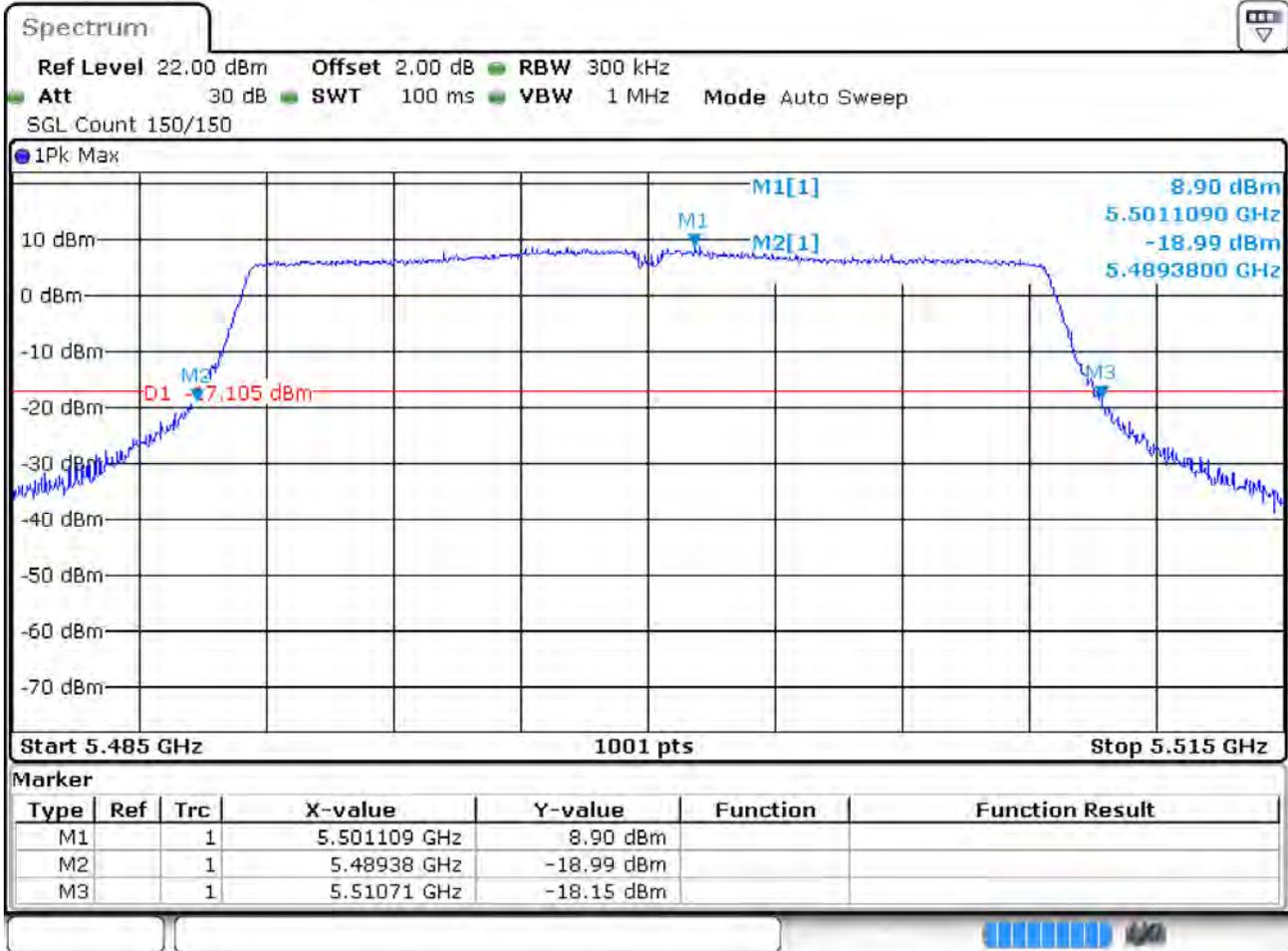


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**4.5.1.114 11AX20MIMO\_242T\_100 ANT 2**



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**4.5.1.115 11AX20MIMO\_242T\_140 ANT 1**

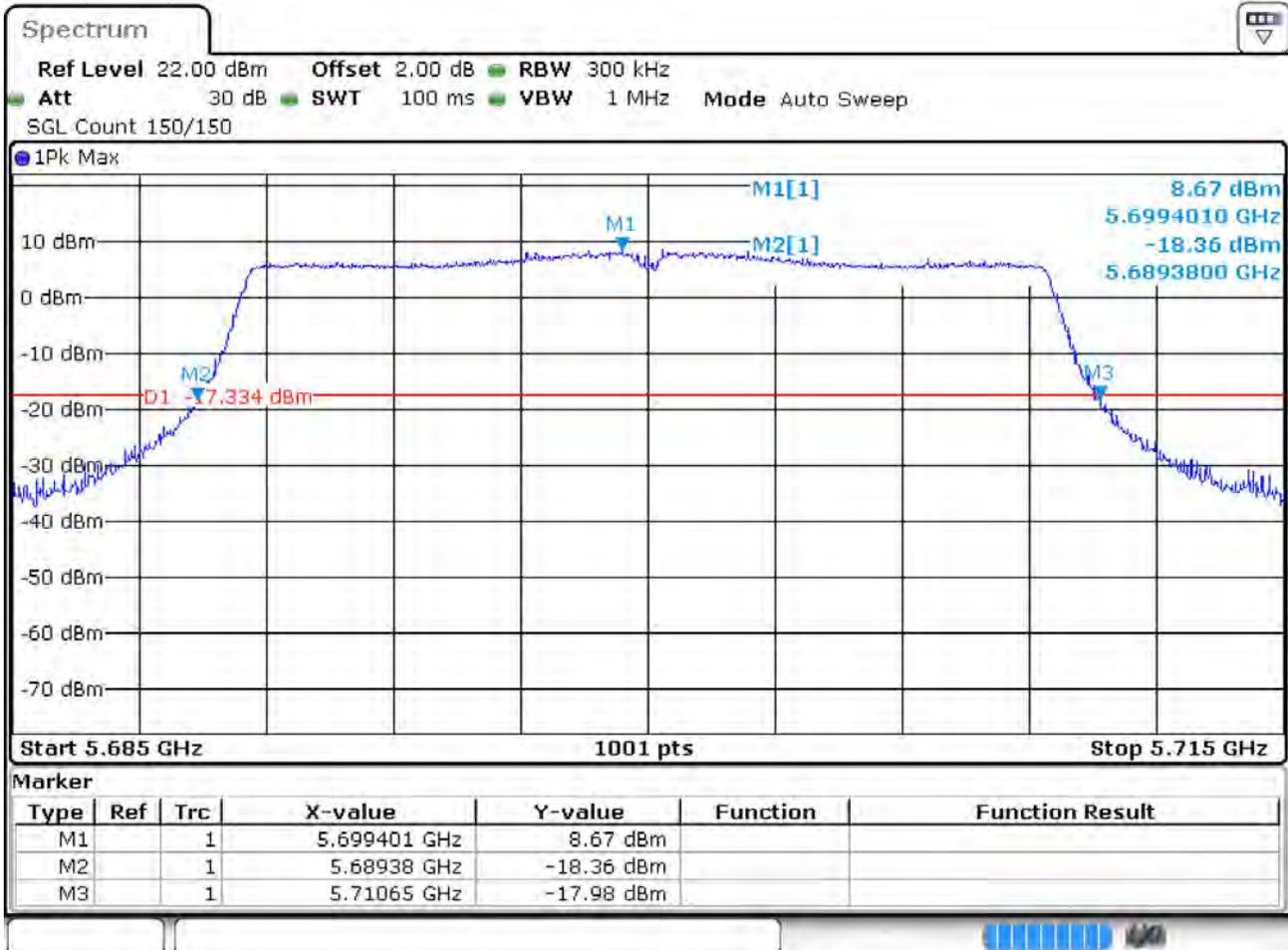


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**4.5.1.116 11AX20MIMO\_242T\_140 ANT 2**

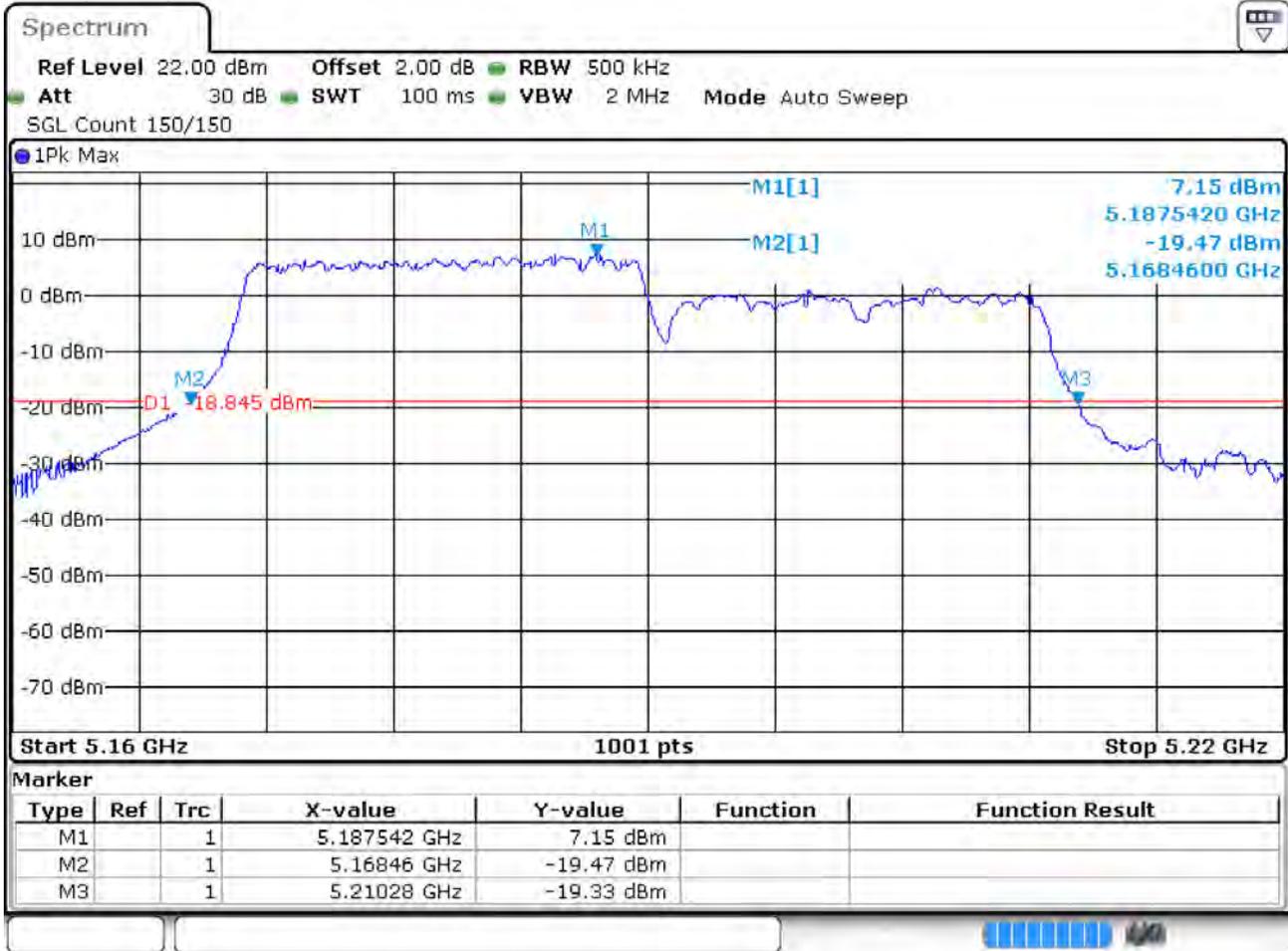


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**4.5.1.117 11AX40MIMO\_242T\_38 ANT 1**



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**4.5.1.118 11AX40MIMO\_242T\_38 ANT 2**



Date: 11.APR.2020 11:24:54



**4.5.1.119 11AX40MIMO\_242T\_46 ANT 1**



Date: 11.APR.2020 10:50:13

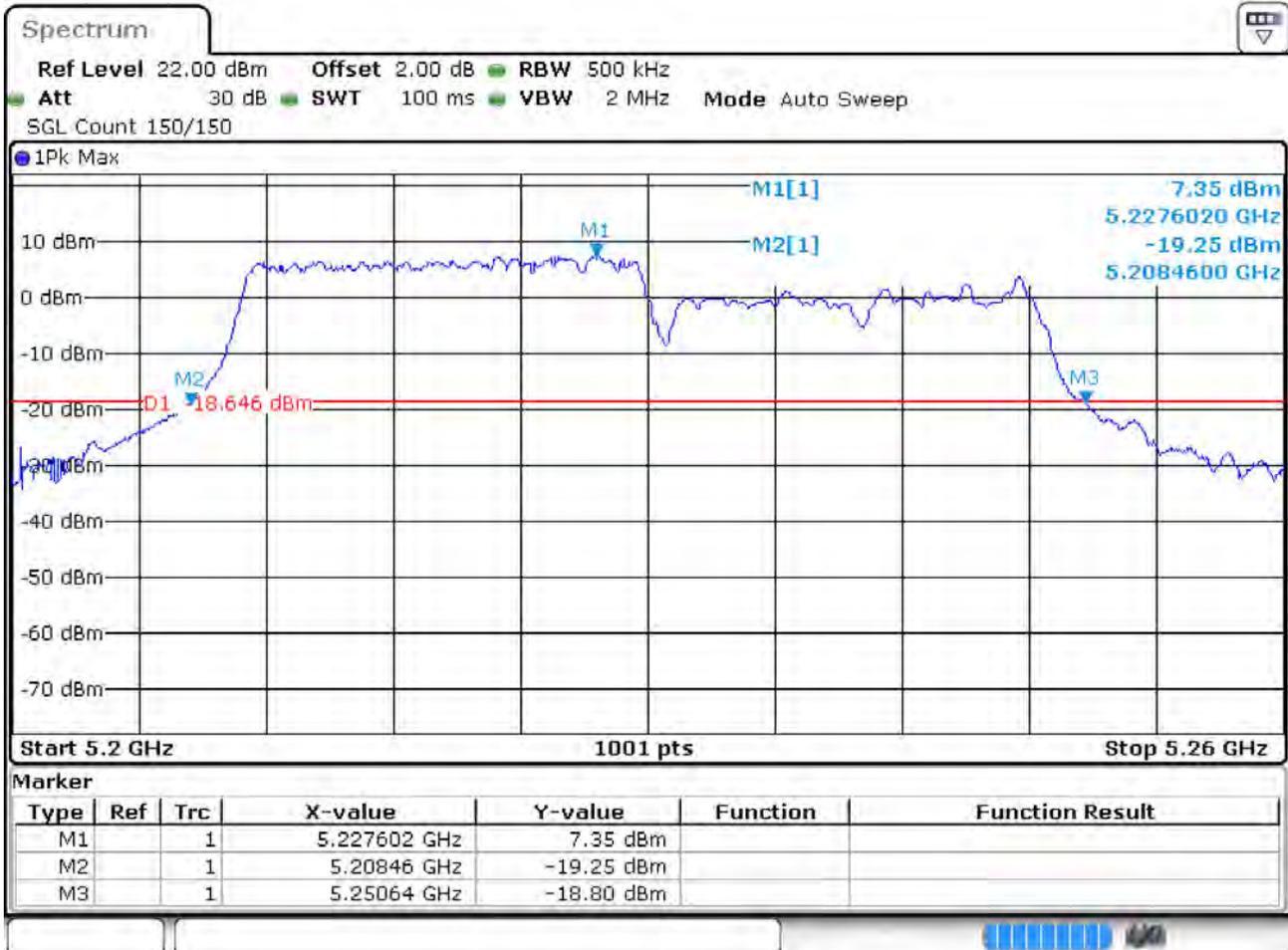


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**4.5.1.120 11AX40MIMO\_242T\_46 ANT 2**



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**4.5.1.121 11AX40MIMO\_242T\_54 ANT 1**



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**4.5.1.122 11AX40MIMO\_242T\_54 ANT 2**



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**4.5.1.123 11AX40MIMO\_242T\_62 ANT 1**



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**4.5.1.124 11AX40MIMO\_242T\_62 ANT 2**

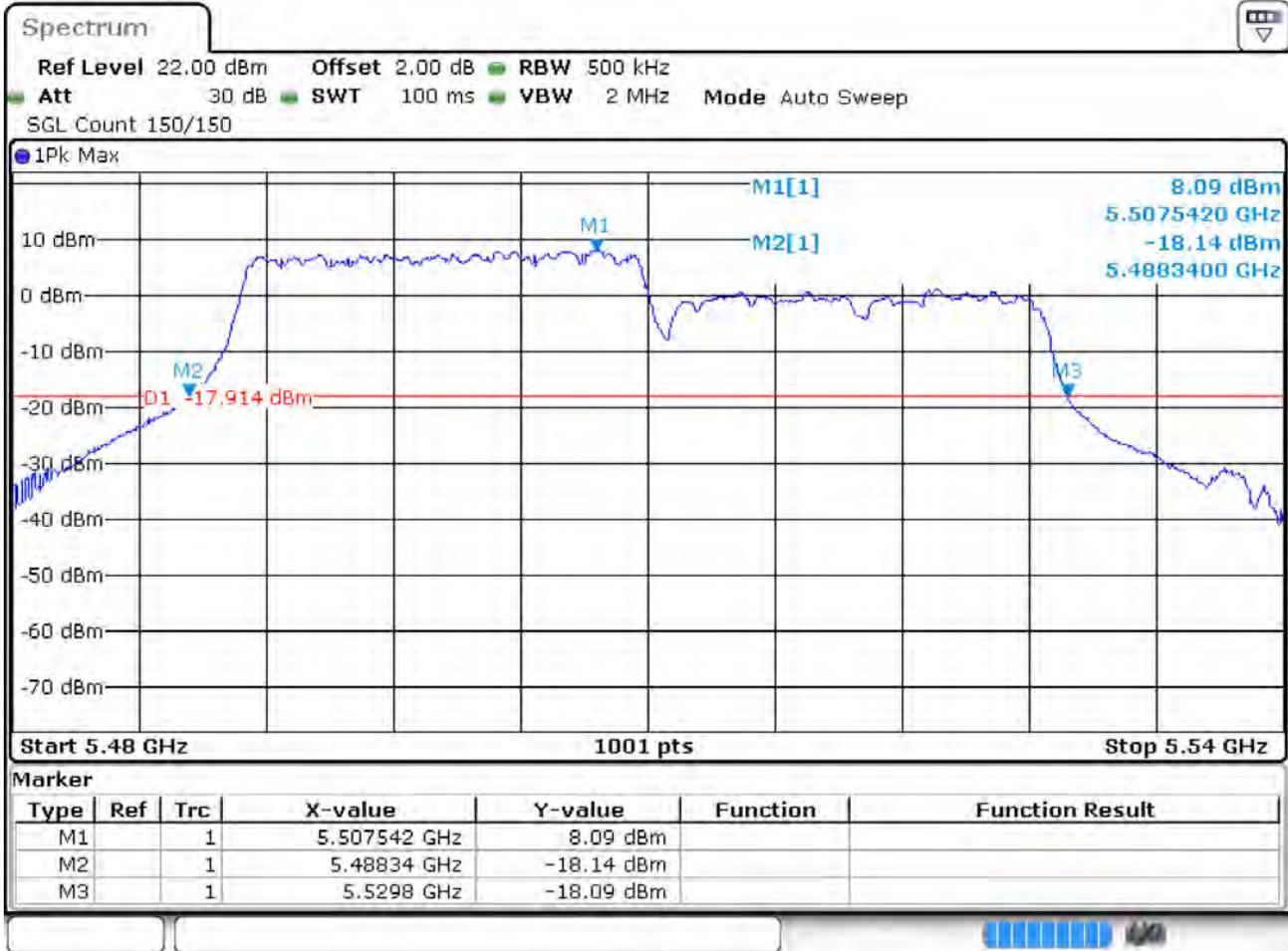


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**4.5.1.125 11AX40MIMO\_242T\_102 ANT 1**



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**4.5.1.126 11AX40MIMO\_242T\_102 ANT 2**



Date: 11.APR.2020 11:34:59

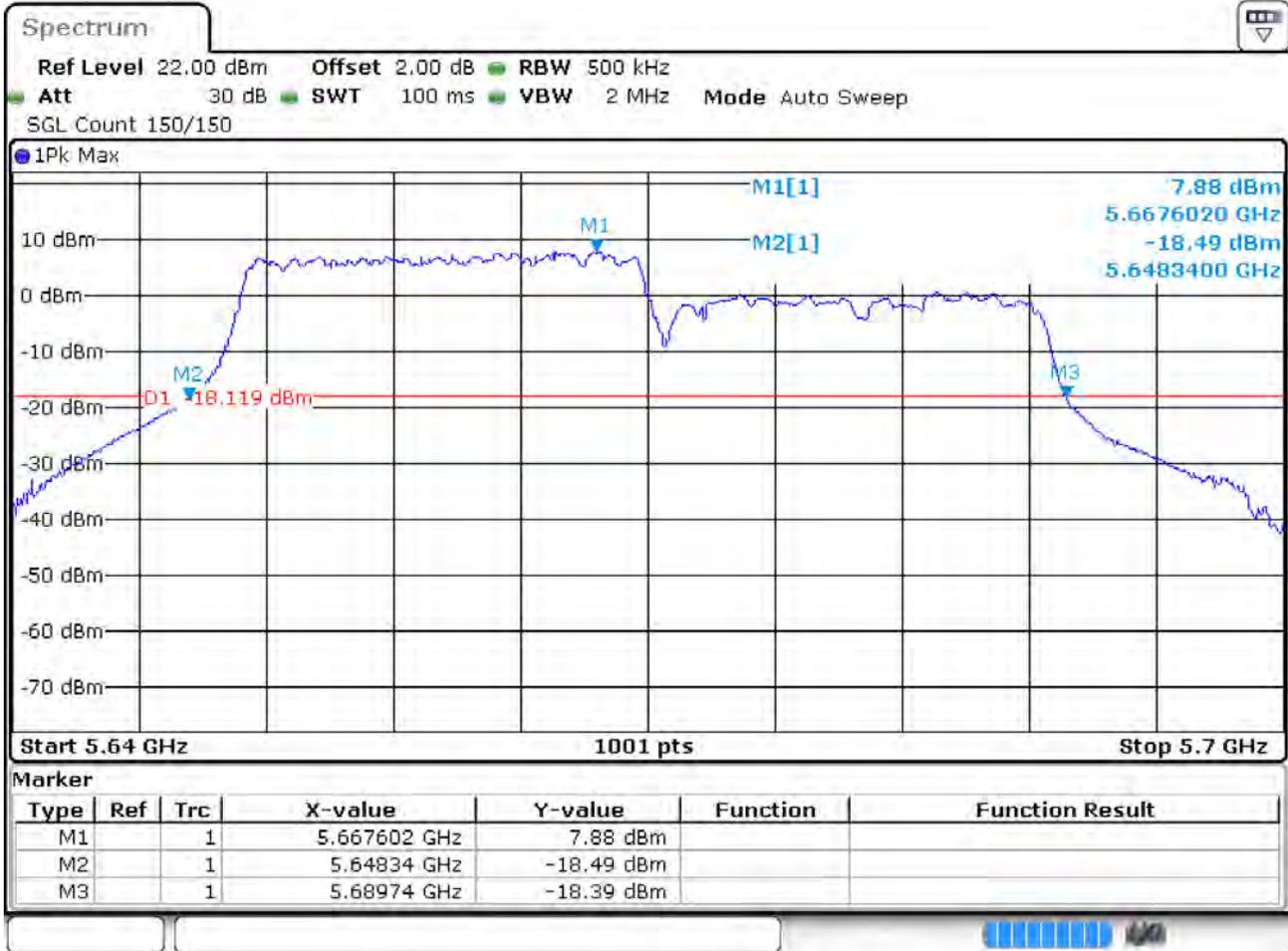


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**4.5.1.127 11AX40MIMO\_242T\_134 ANT 1**



Date: 11.APR.2020 11:14:36

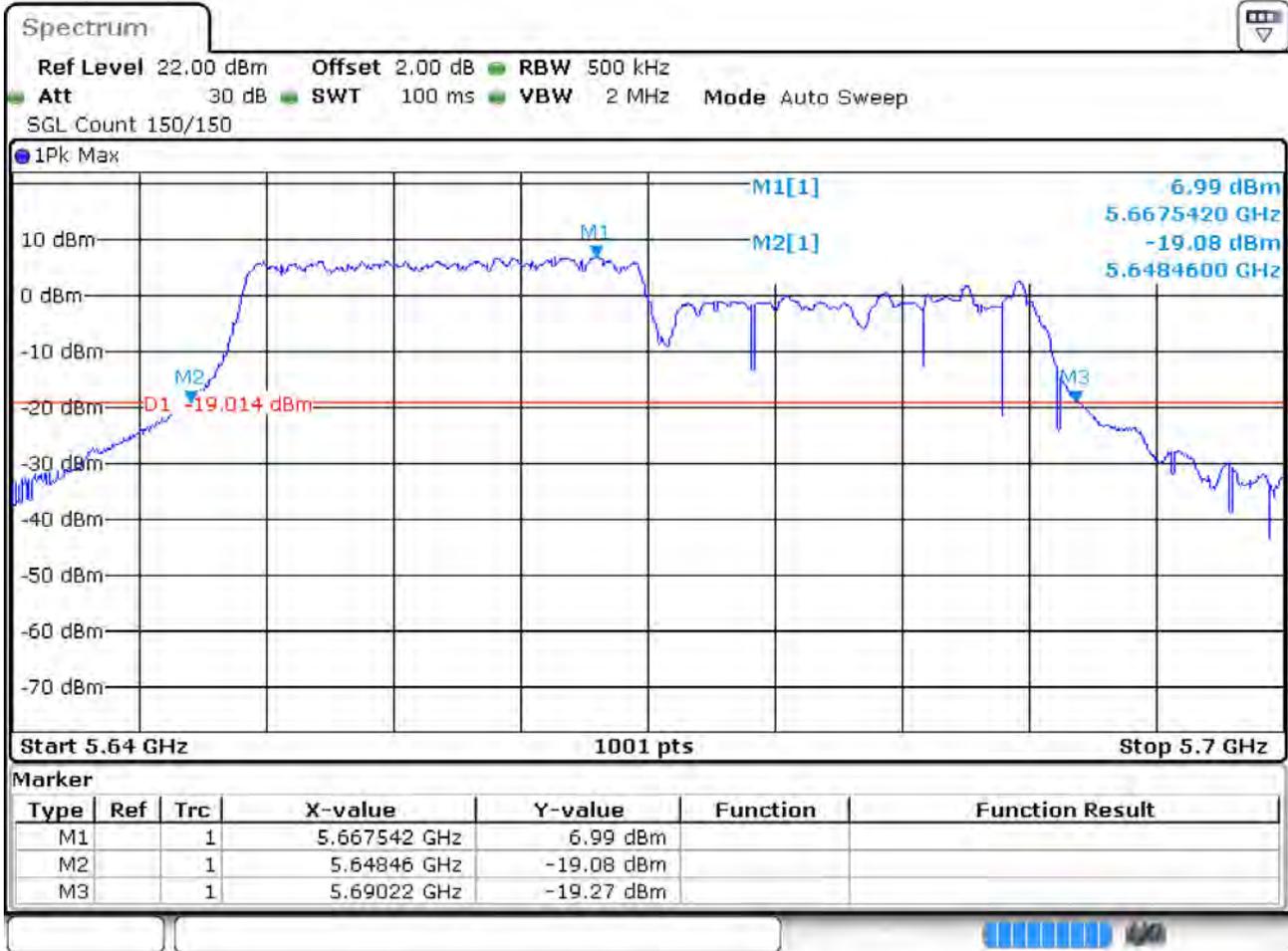


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**4.5.1.128 11AX40MIMO\_242T\_134 ANT 2**



Date: 11.APR.2020 11:37:50

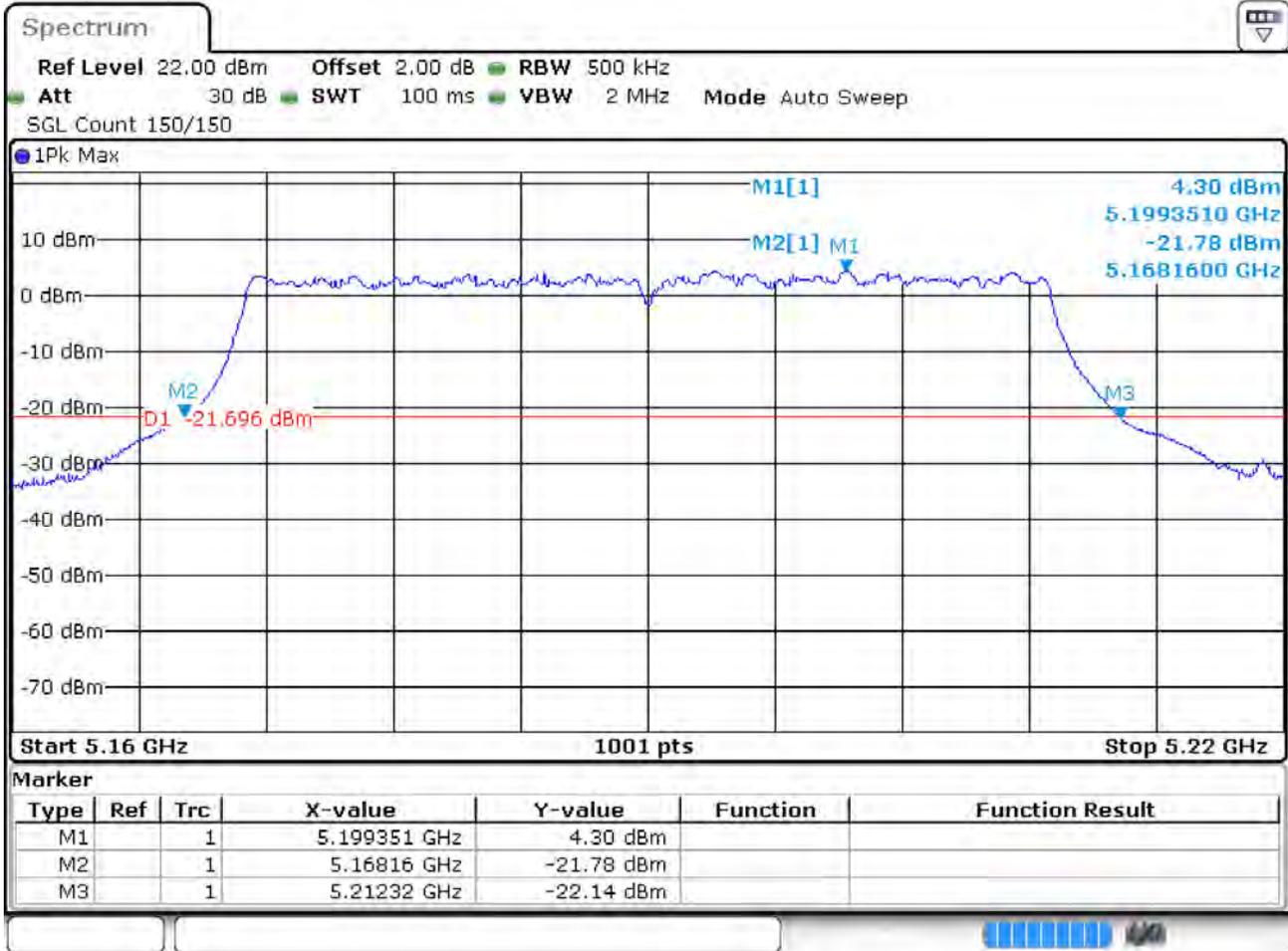


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**4.5.1.129 11AX40MIMO\_484T\_38 ANT 1**



Date: 11.APR.2020 11:49:21

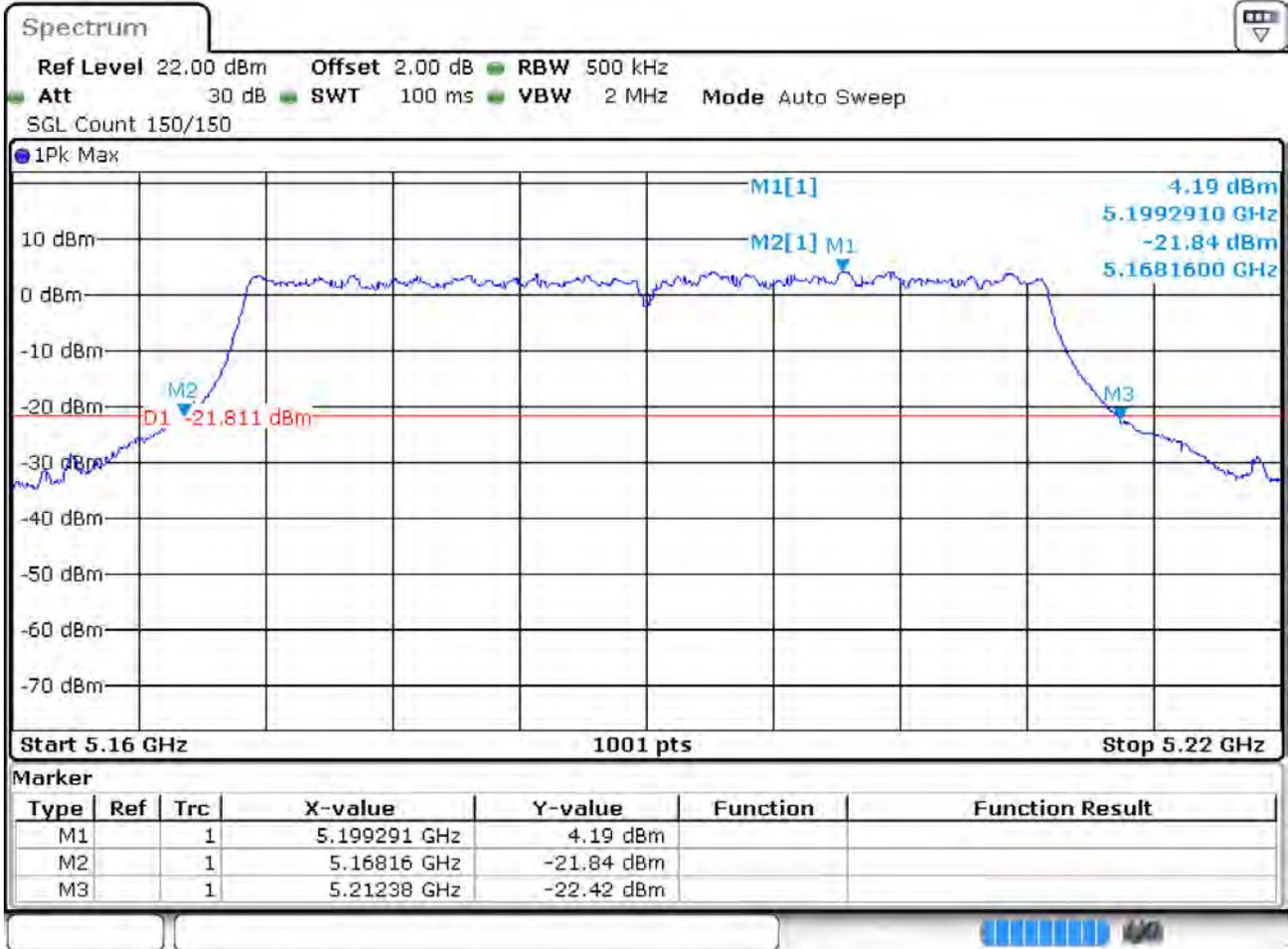


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**4.5.1.130 11AX40MIMO\_484T\_38 ANT 2**



Date: 11.APR.2020 12:06:23

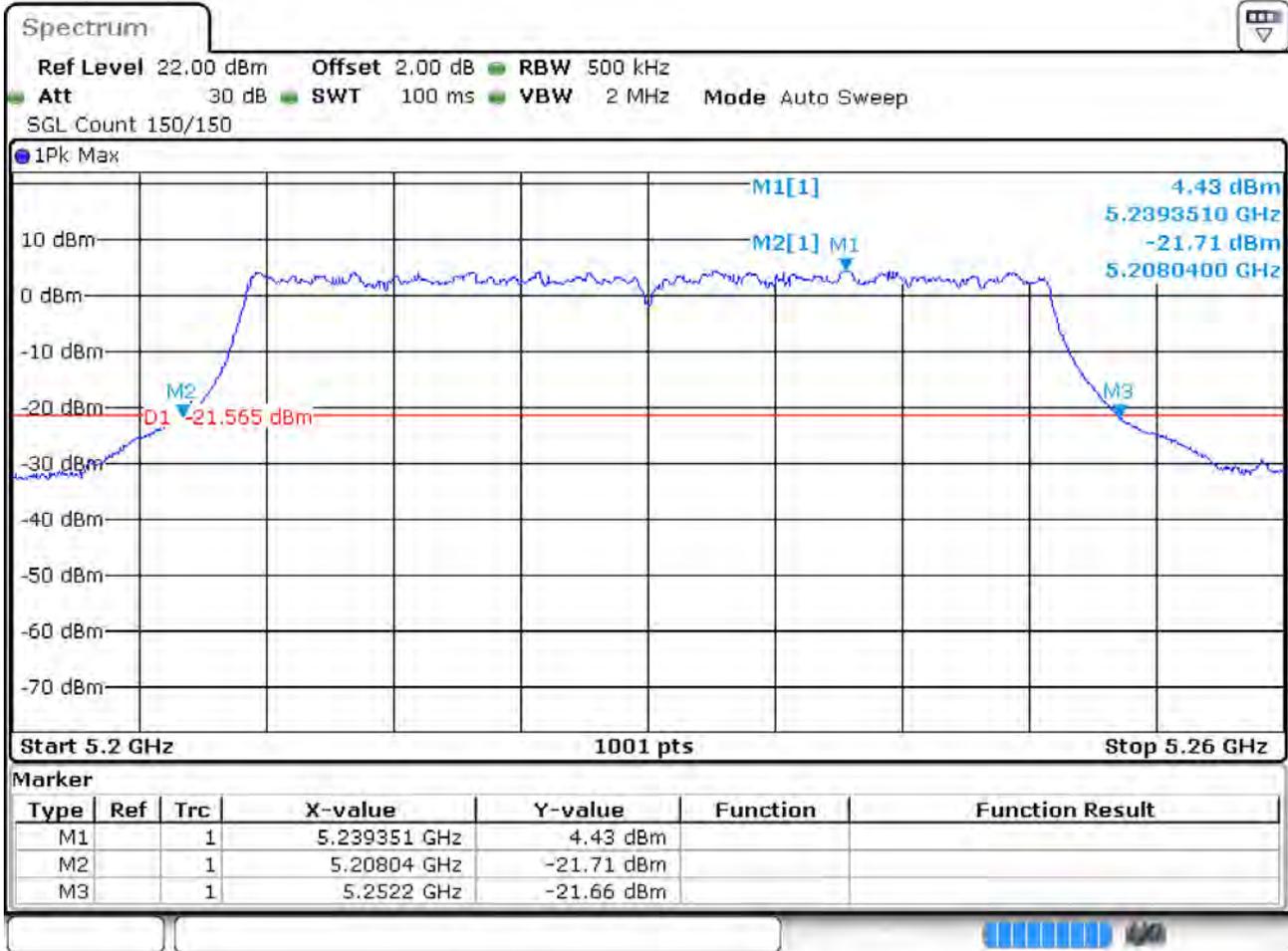


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**4.5.1.131 11AX40MIMO\_484T\_46 ANT 1**



Date: 11.APR.2020 11:51:10

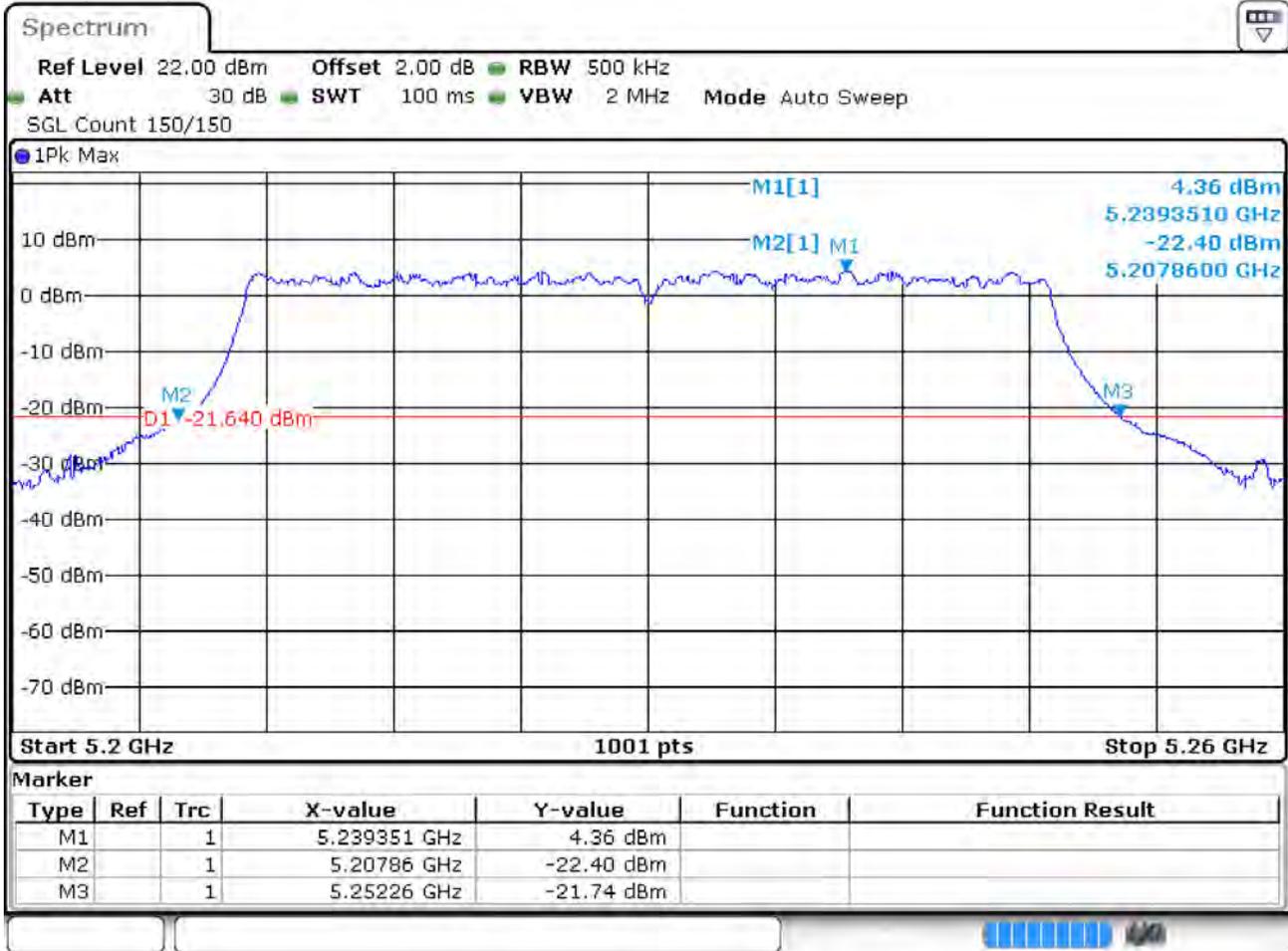


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**4.5.1.132 11AX40MIMO\_484T\_46 ANT 2**



Date: 11.APR.2020 12:08:53

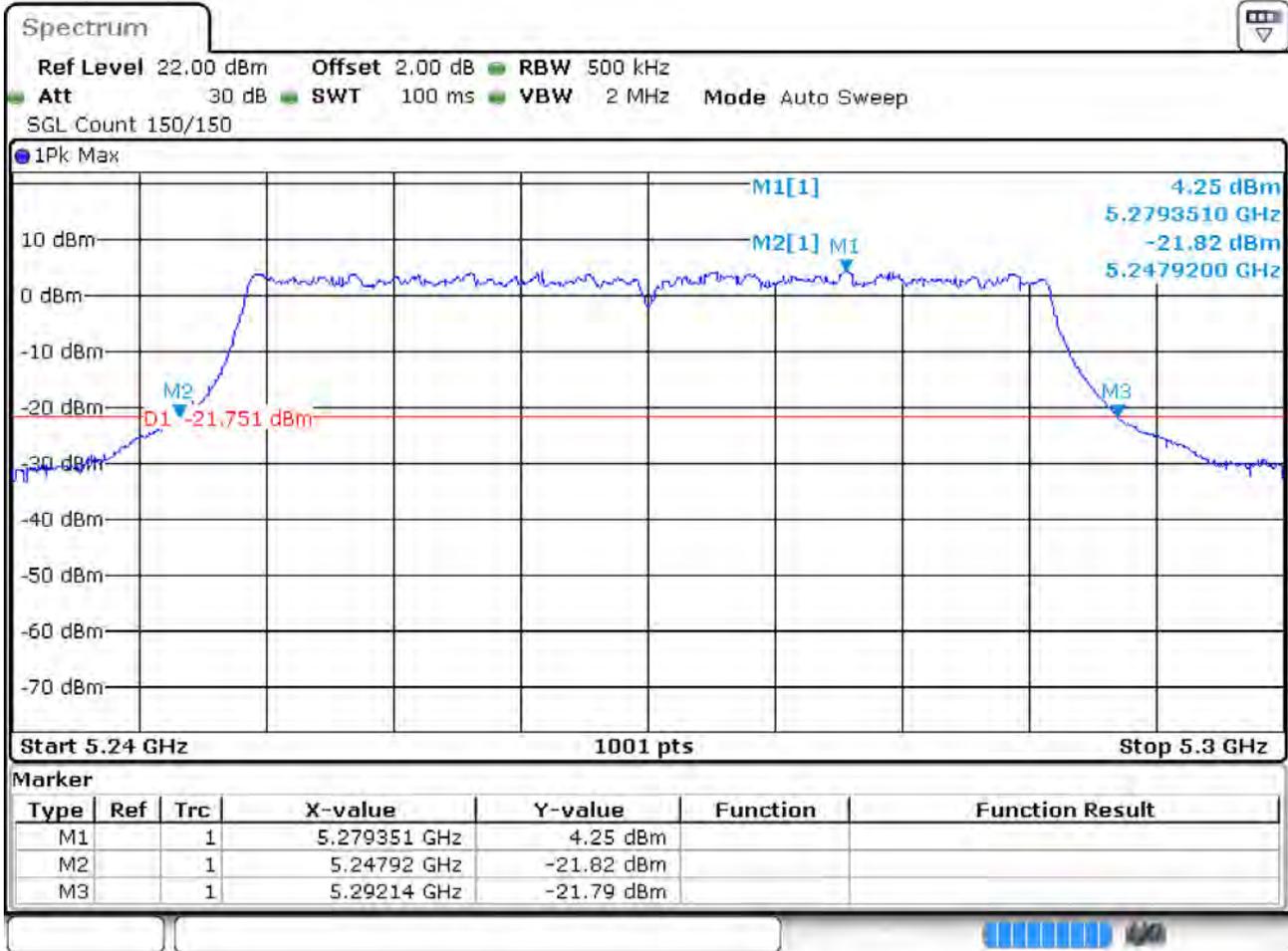


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**4.5.1.133 11AX40MIMO\_484T\_54 ANT 1**



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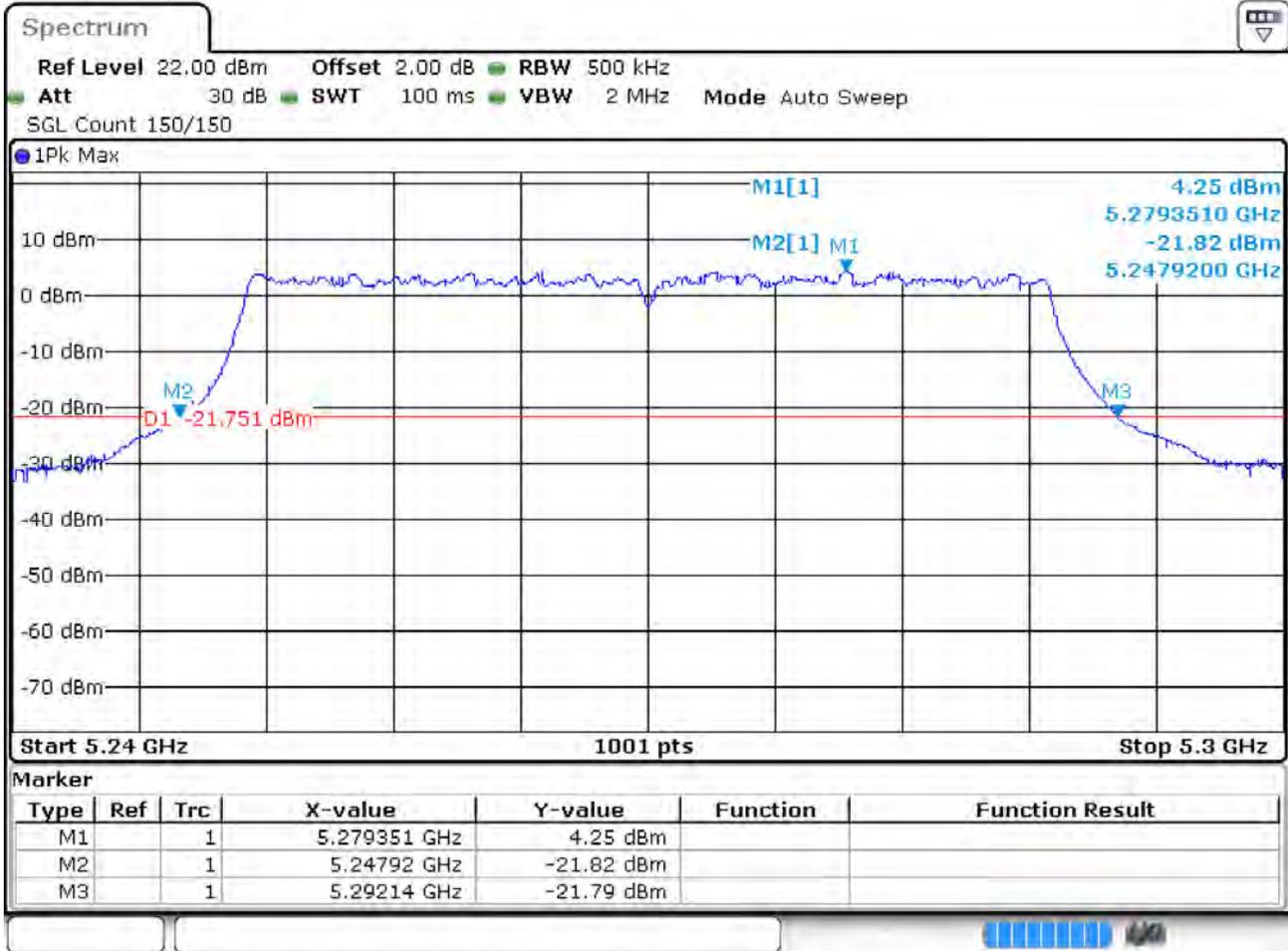


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**4.5.1.134 11AX40MIMO\_484T\_54 ANT 2**

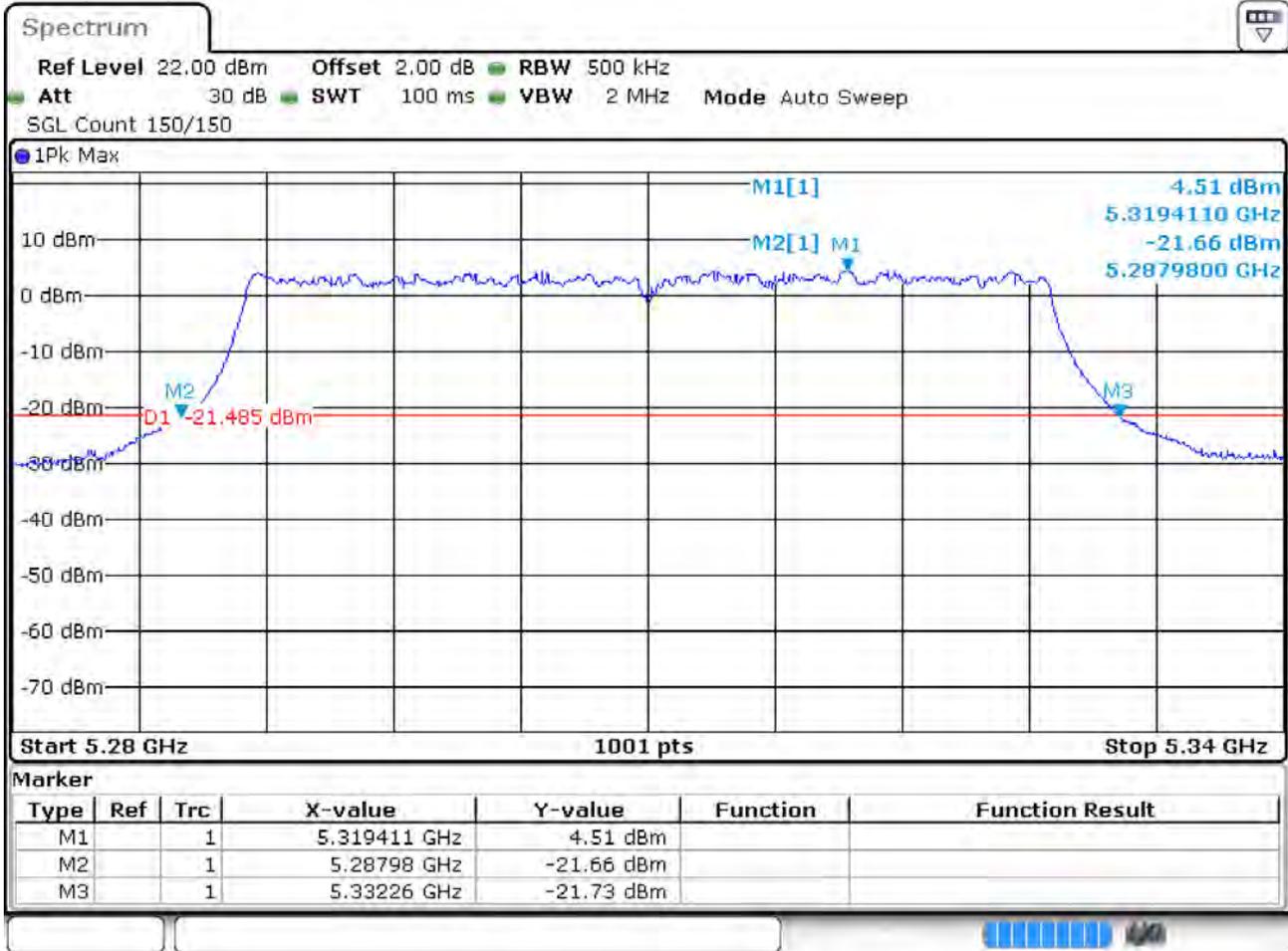


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**4.5.1.135 11AX40MIMO\_484T\_62 ANT 1**



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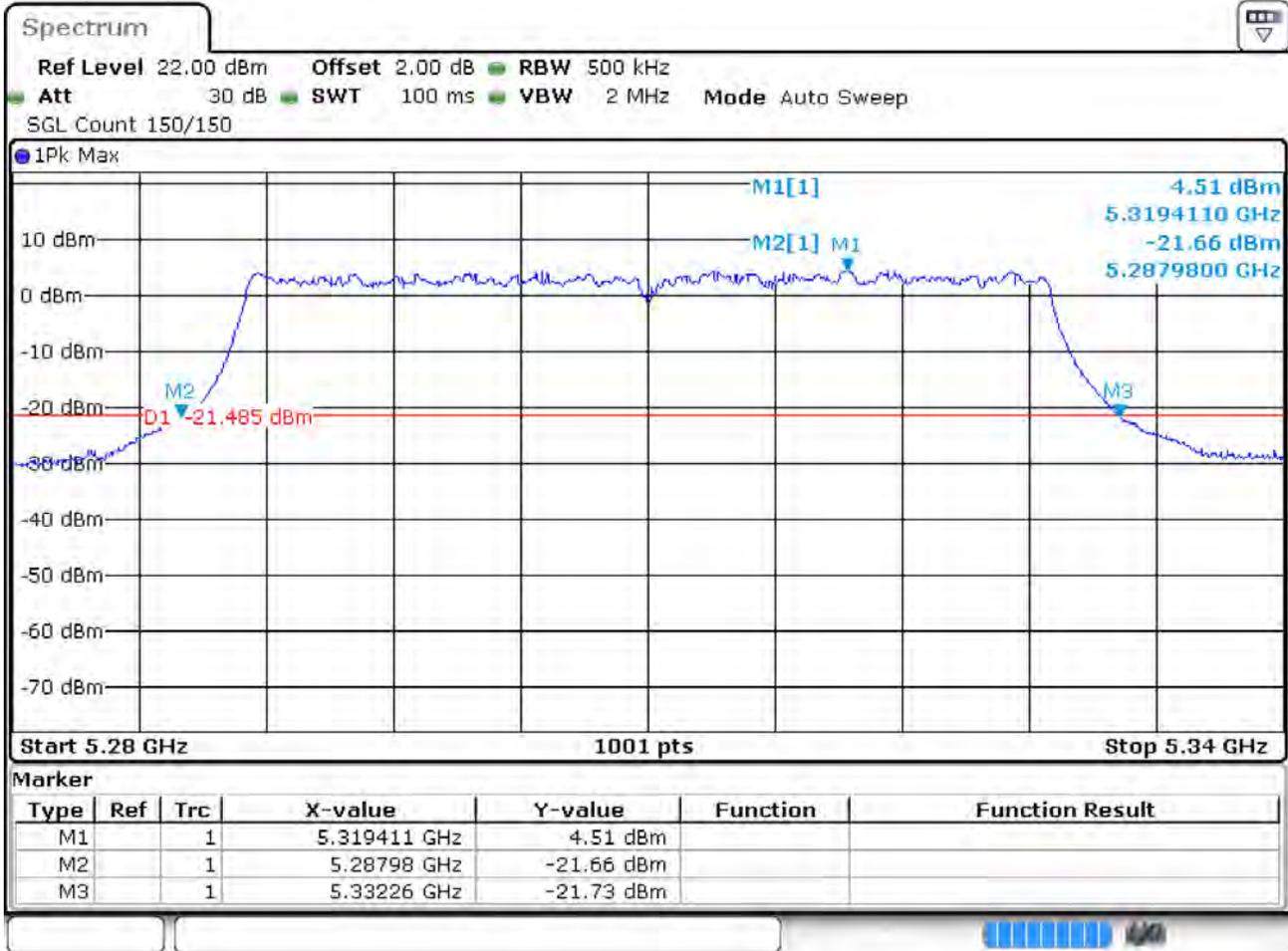


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**4.5.1.136 11AX40MIMO\_484T\_62 ANT 2**

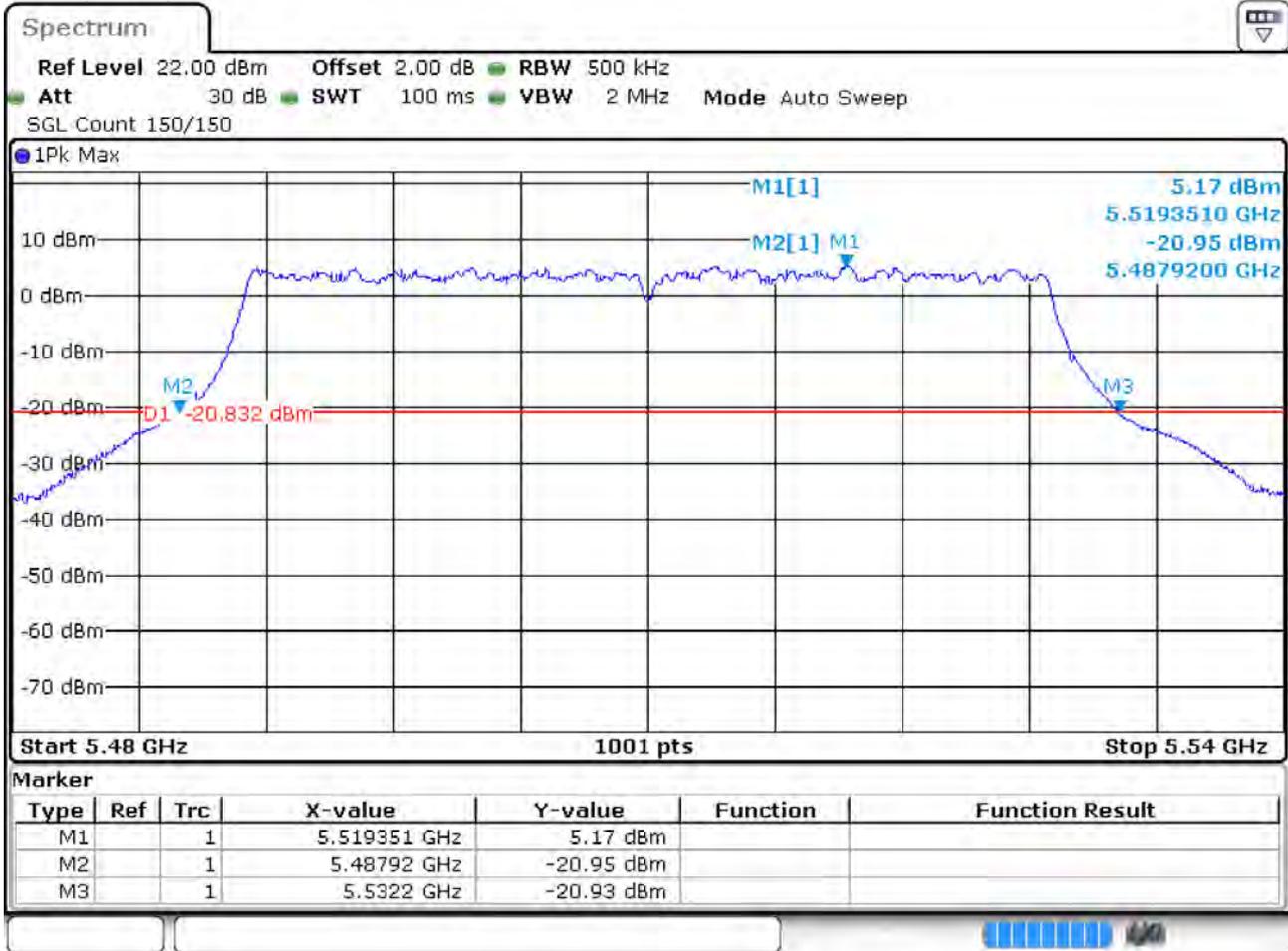


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**4.5.1.137 11AX40MIMO\_484T\_102 ANT 1**



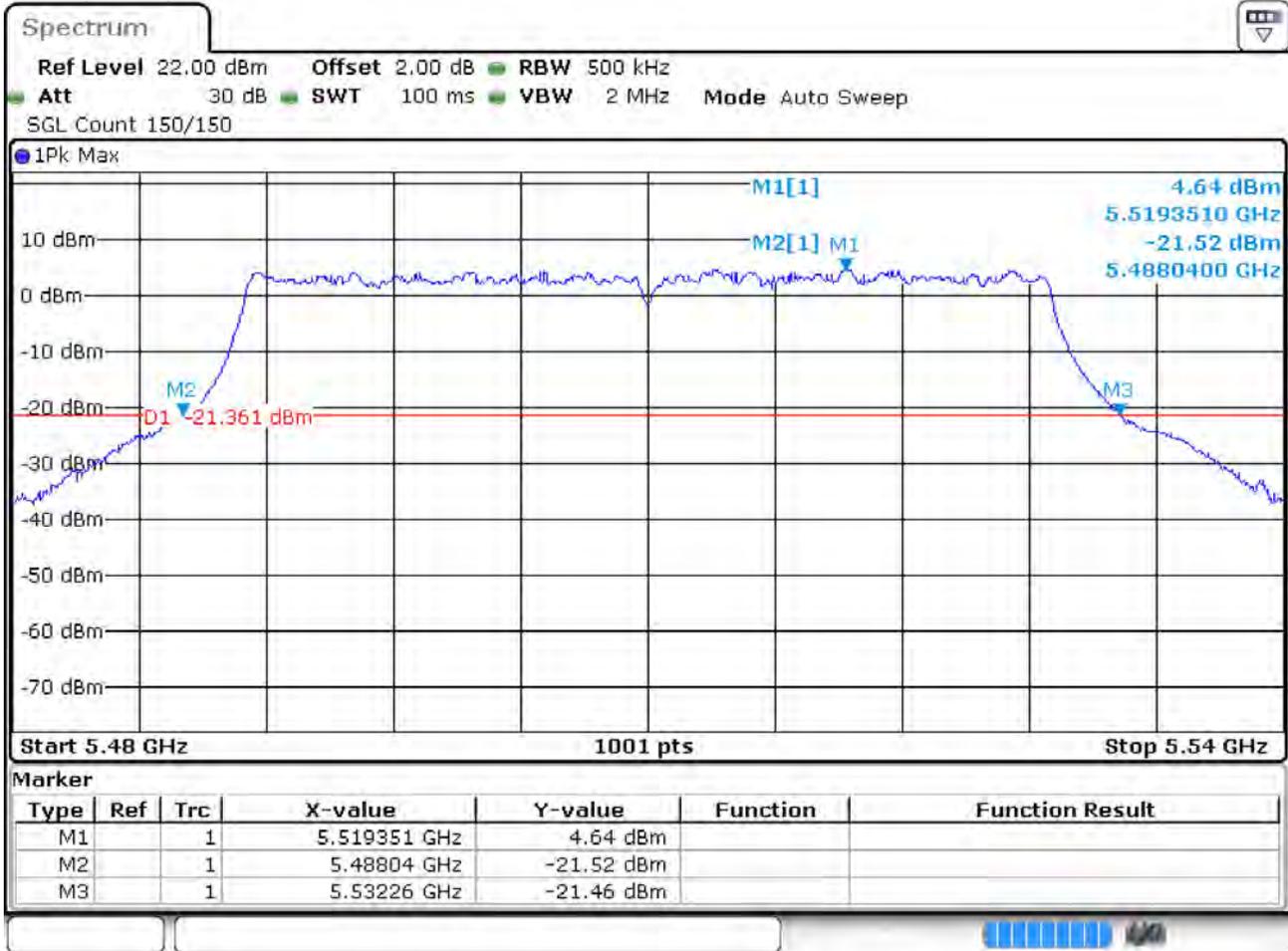
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**4.5.1.138 11AX40MIMO\_484T\_102 ANT 2**



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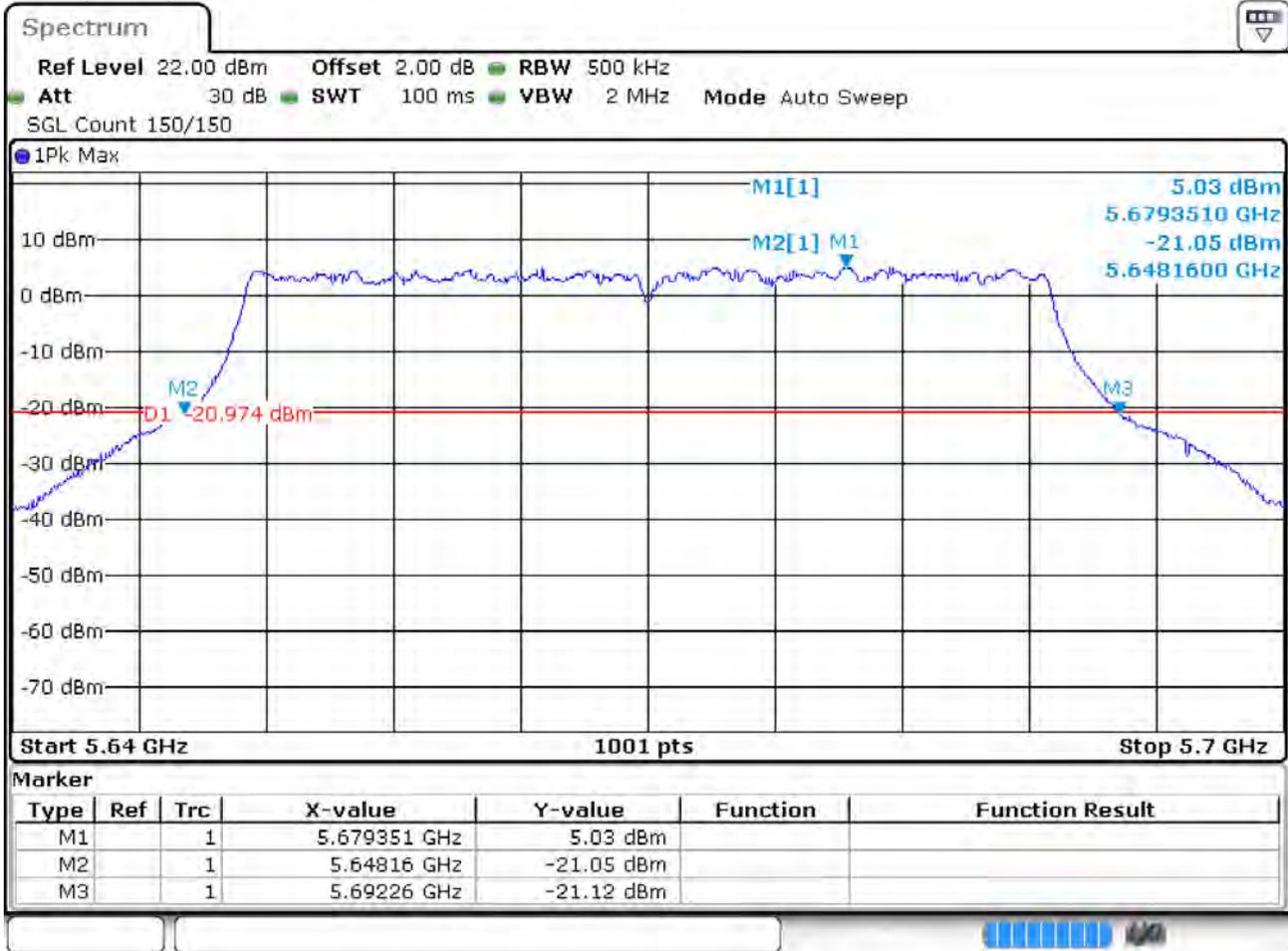
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4.5.1.139 11AX40MIMO\_484T\_134 ANT 1



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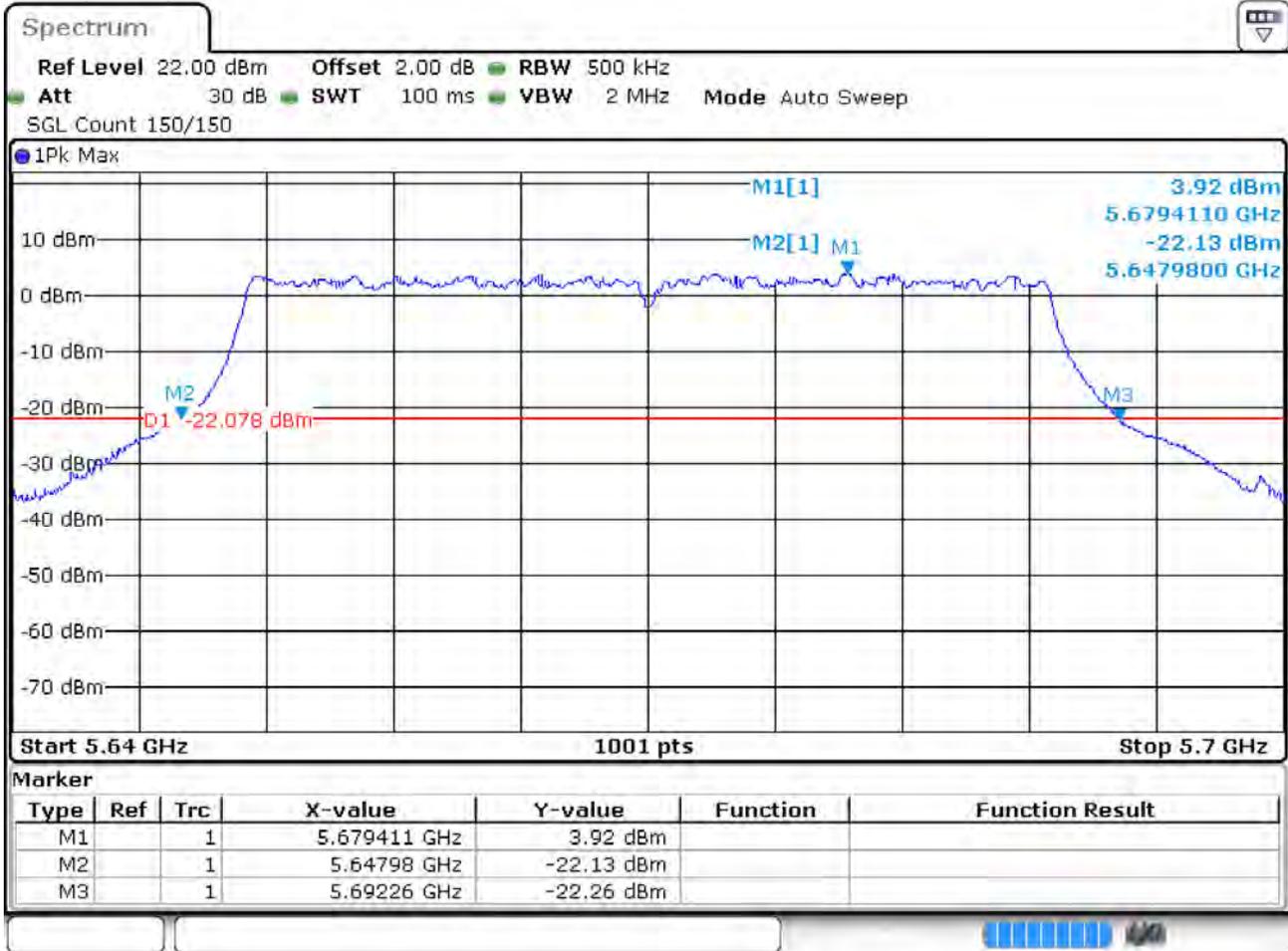


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**4.5.1.140 11AX40MIMO\_484T\_134 ANT 2**



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**4.5.1.141 11AX80MIMO\_484T\_42 ANT 1**



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**4.5.1.142 11AX80MIMO\_484T\_42 ANT 2**



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**4.5.1.143 11AX80MIMO\_484T\_58 ANT 1**



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**4.5.1.144 11AX80MIMO\_484T\_58 ANT 2**



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**4.5.1.145 11AX80MIMO\_484T\_106 ANT 1**



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**4.5.1.146 11AX80MIMO\_484T\_106 ANT 2**



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**4.5.1.147 11AX80MIMO\_996T\_42 ANT 1**



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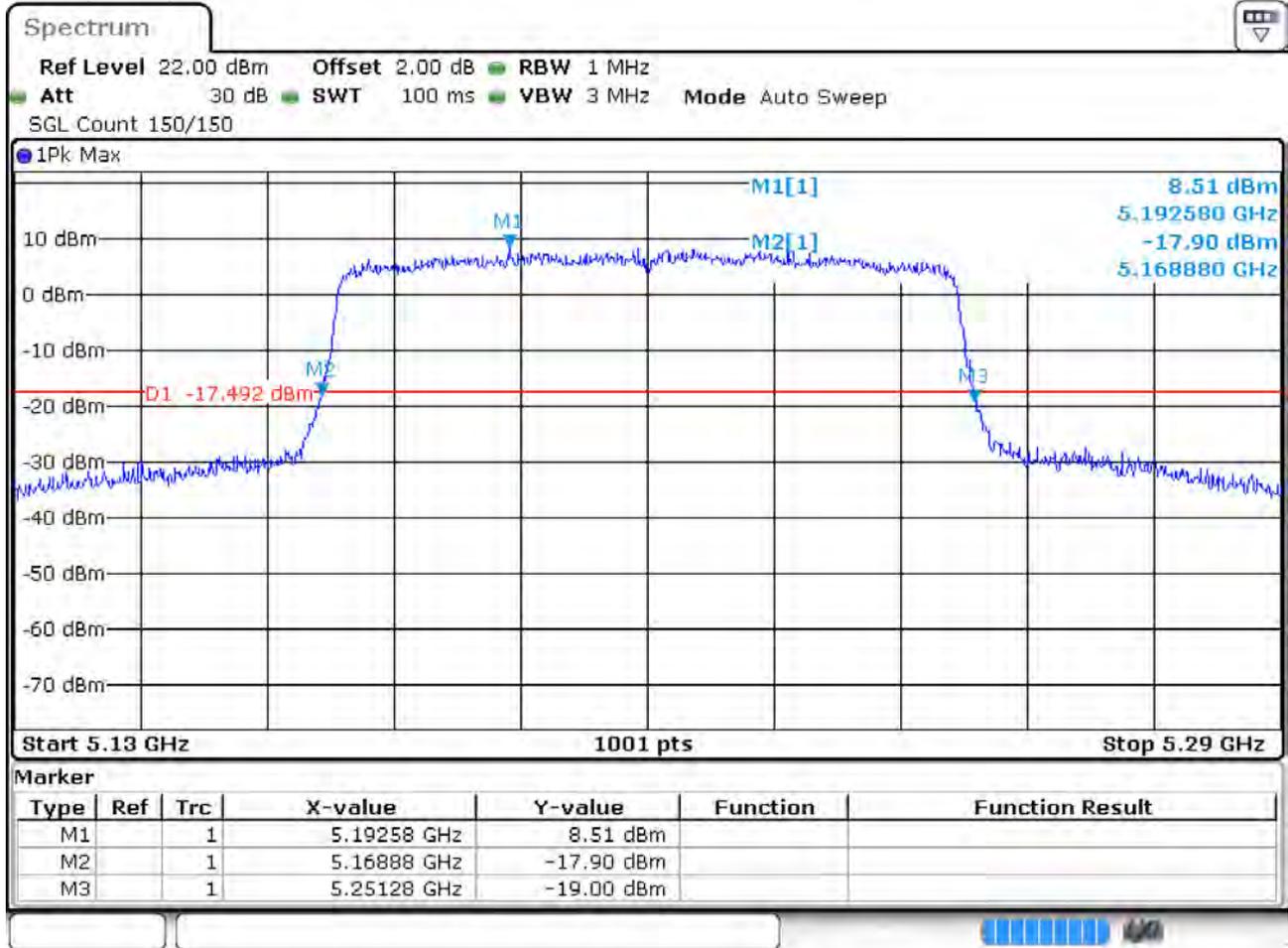


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**4.5.1.148 11AX80MIMO\_996T\_42 ANT 2**



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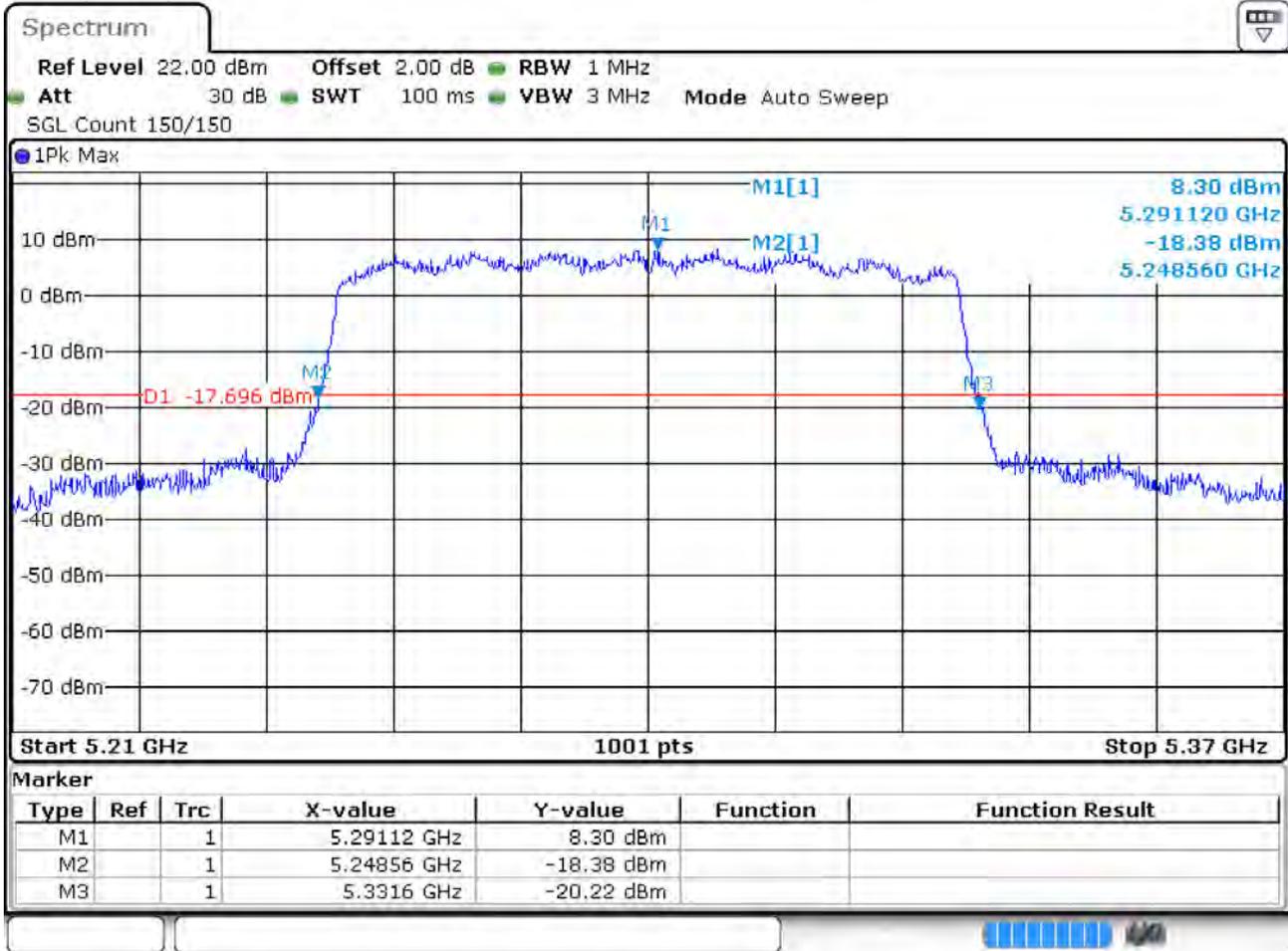


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**4.5.1.149 11AX80MIMO\_996T\_58 ANT 1**



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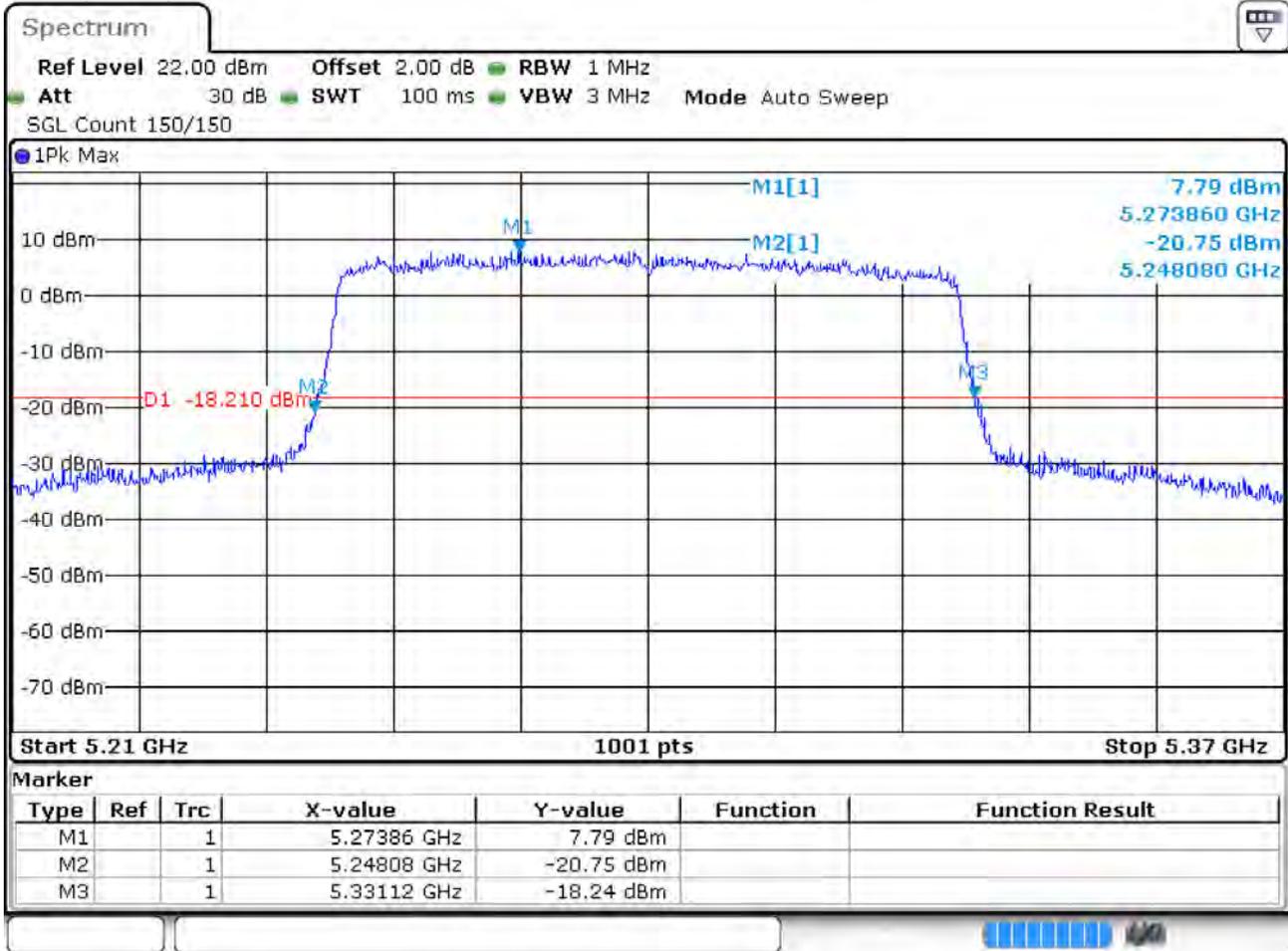


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**4.5.1.150 11AX80MIMO\_996T\_58 ANT 2**



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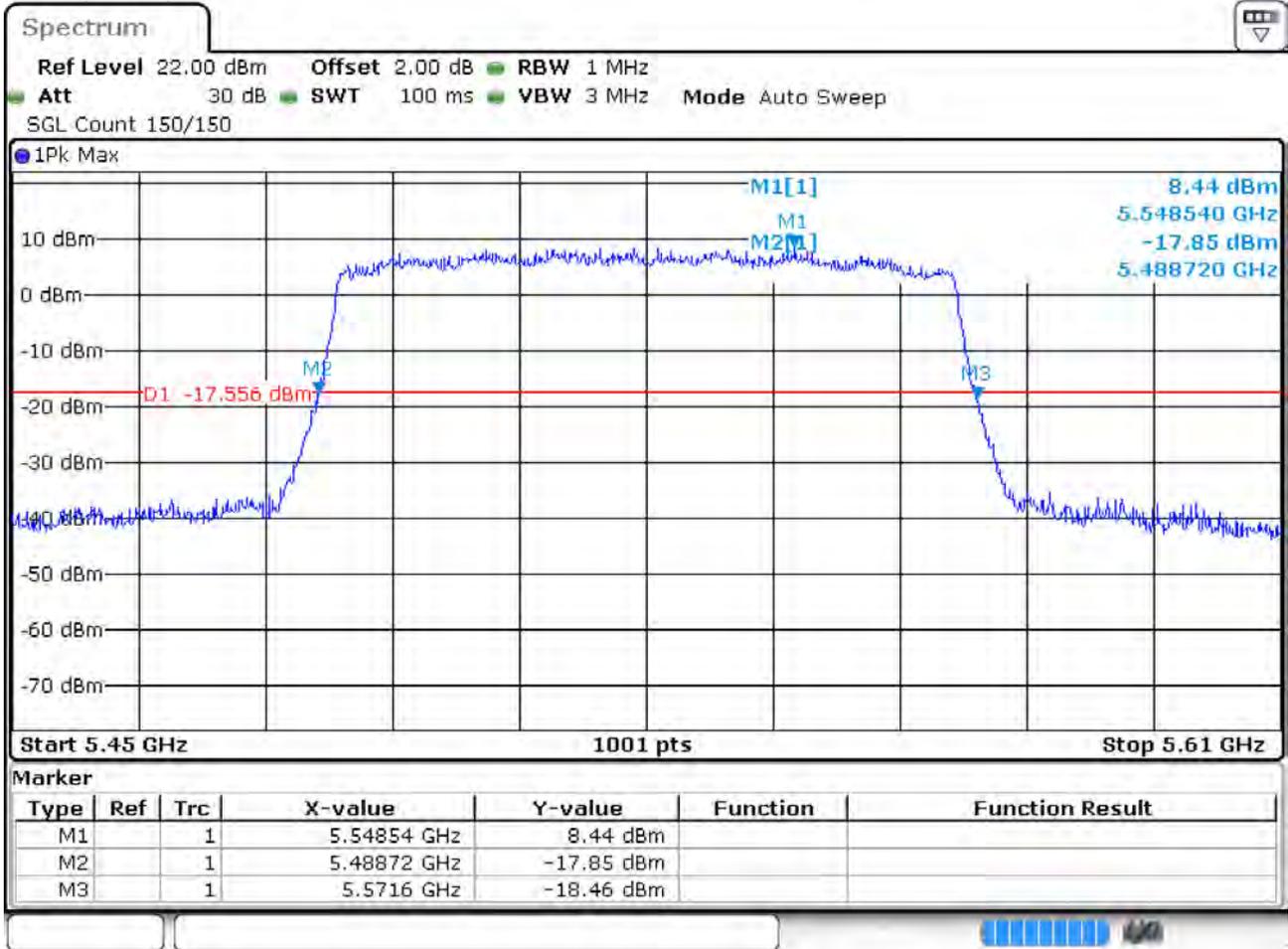


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**4.5.1.151 11AX80MIMO\_996T\_106 ANT 1**



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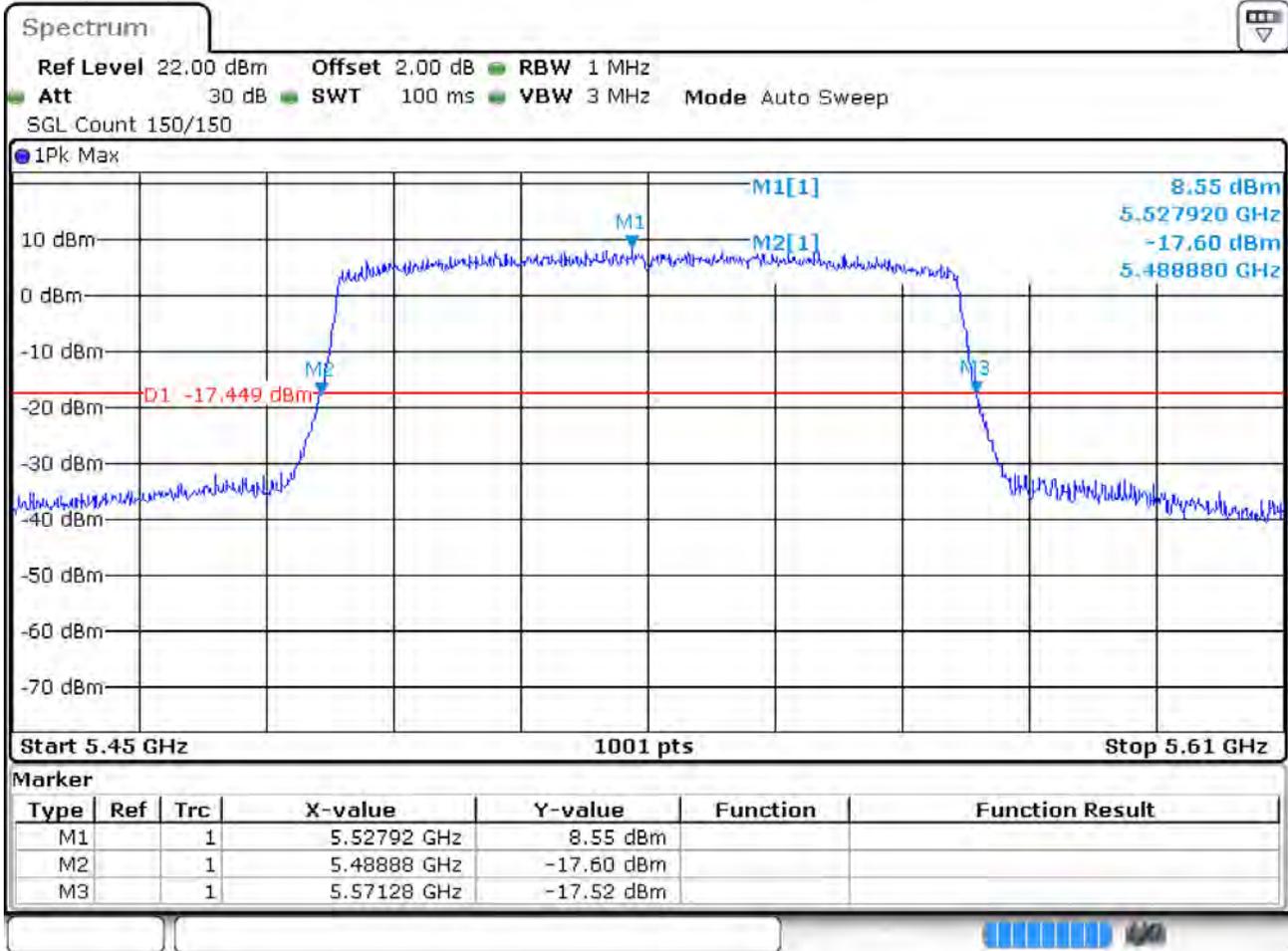


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**4.5.1.152 11AX80MIMO\_996T\_106 ANT 2**



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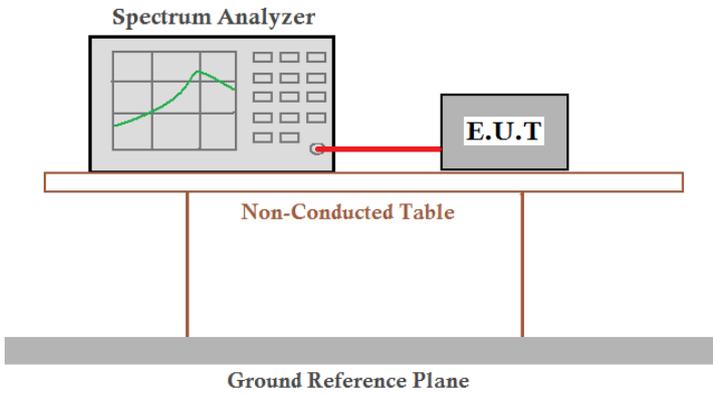


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### 4.6 6dB Emission Bandwidth

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</p> <ul style="list-style-type: none"> <li>6Mbps of rate is the worst case of 802.11a;</li> <li>MCS0 of rate is the worst case of 802.11n(HT20);</li> <li>MCS0 of rate is the worst case of 802.11n(HT40);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT20);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT40);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT80);</li> <li>MCS0 of rate is the worst case of 802.11ax(HT20);</li> <li>MCS0 of rate is the worst case of 802.11ax(HT40);</li> <li>MCS0 of rate is the worst case of 802.11ax(HT80);</li> </ul> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5725-5825MHz	At least 500kHz
Test Results:	Pass	





**4.6.1 Test Plots For 6dB Emission Bandwidth**

Test Mode	Test Channel	Frequency [MHz]	6dB Emission Bandwidth [MHz]		Verdict
			ANT 1	ANT 2	
11A20CDD	149	5745	15.15	16.38	PASS
	161	5805	17.25	16.98	PASS
11N20MIMO	149	5745	17.64	17.61	PASS
	161	5805	17.19	17.01	PASS
11N40MIMO	151	5755	35.16	36.48	PASS
	159	5795	35.82	36.48	PASS
11AC20MIMO	149	5745	15.15	16.38	PASS
	161	5805	17.25	16.98	PASS
11AC40MIMO	151	5755	36.54	36.6	PASS
	159	5795	36.6	36.6	PASS
11AC80MIMO	155	5775	76.8	76.8	PASS
11AX20MIMO_26T	149	5745	2.7	6.39	PASS
	161	5805	2.7	8.88	PASS
11AX20MIMO_52T	149	5745	15.12	15.18	PASS
	161	5805	13.86	15.15	PASS
11AX20MIMO_106T	149	5745	17.19	17.76	PASS
	161	5805	17.16	18.12	PASS
11AX20MIMO_242T	149	5745	18.78	18.87	PASS
	161	5805	18.96	18.84	PASS
11AX40MIMO_484T	151	5755	38.28	38.28	PASS
	159	5795	38.28	38.28	PASS
11AX80MIMO_484T	155	5775	77.28	76.96	PASS
11AX80MIMO_996T	155	5775	77.6	77.92	PASS



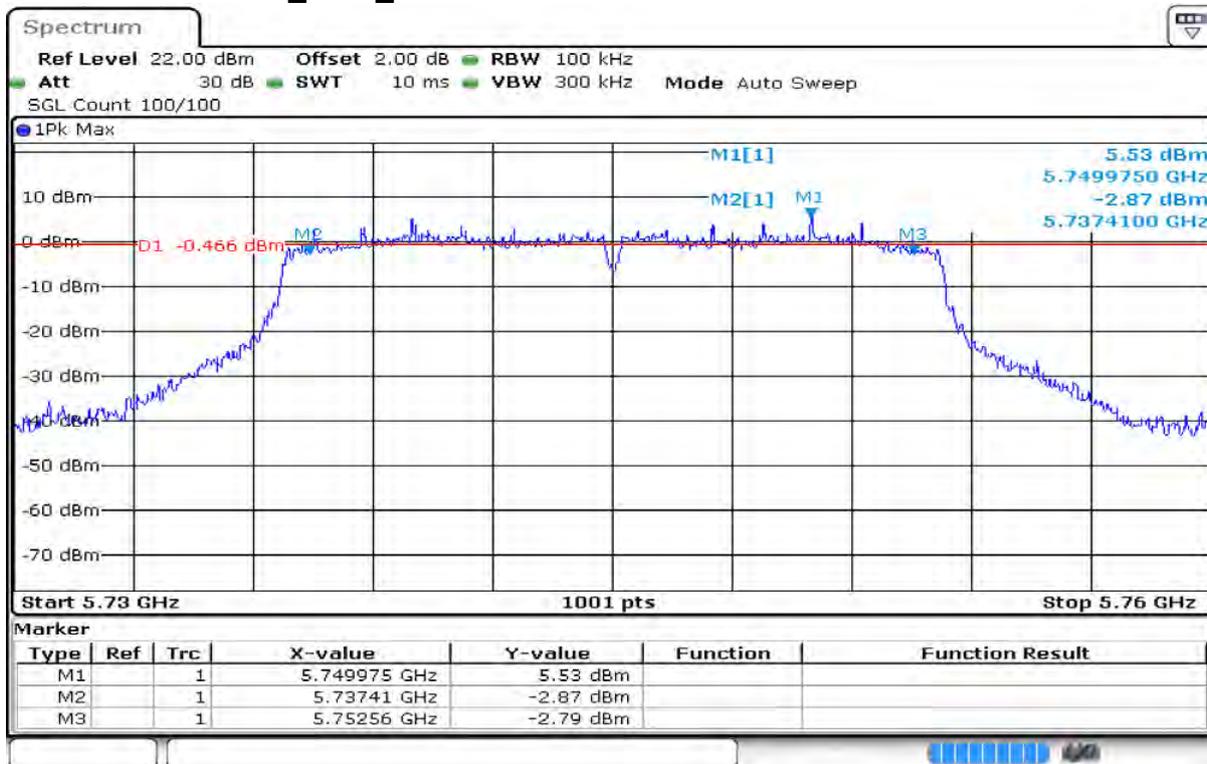
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4.6.2 Test Plots For 6dB Emission Bandwidth

4.6.2.1 11A20\_CDD\_149 ANT 1



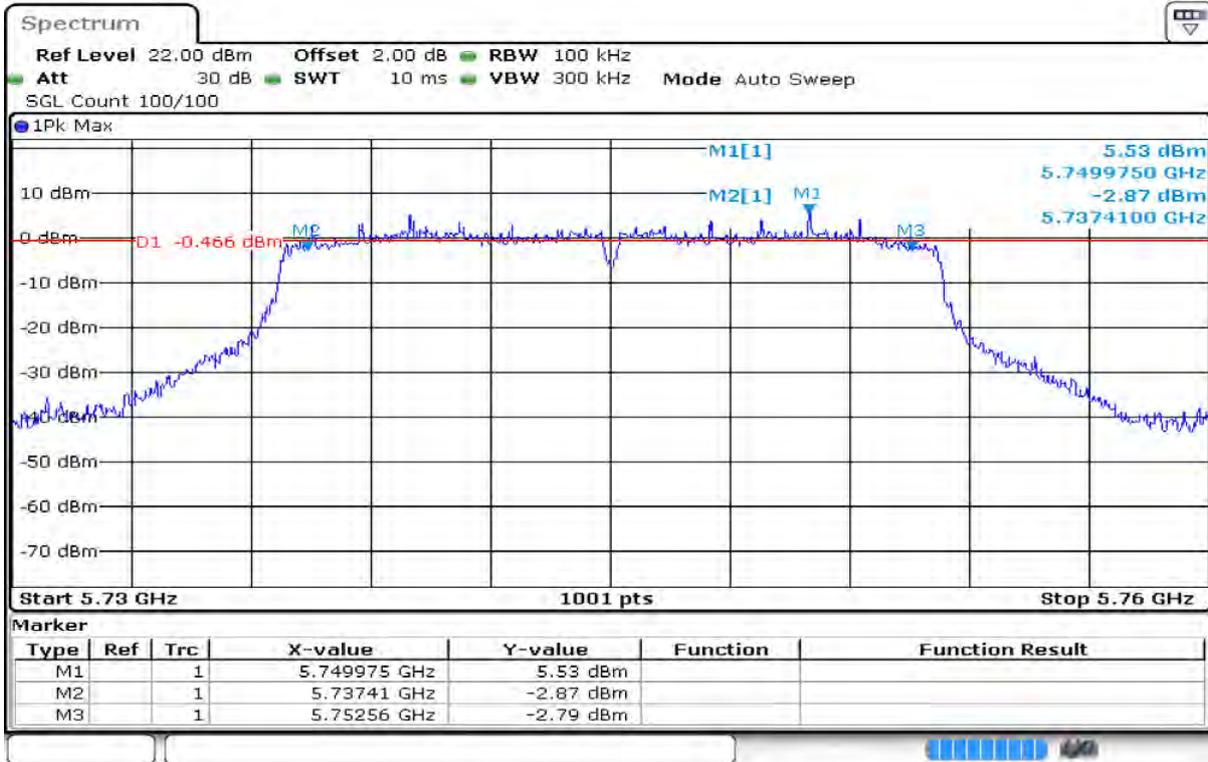
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4.6.2.2 11A20\_CDD\_149 ANT 2



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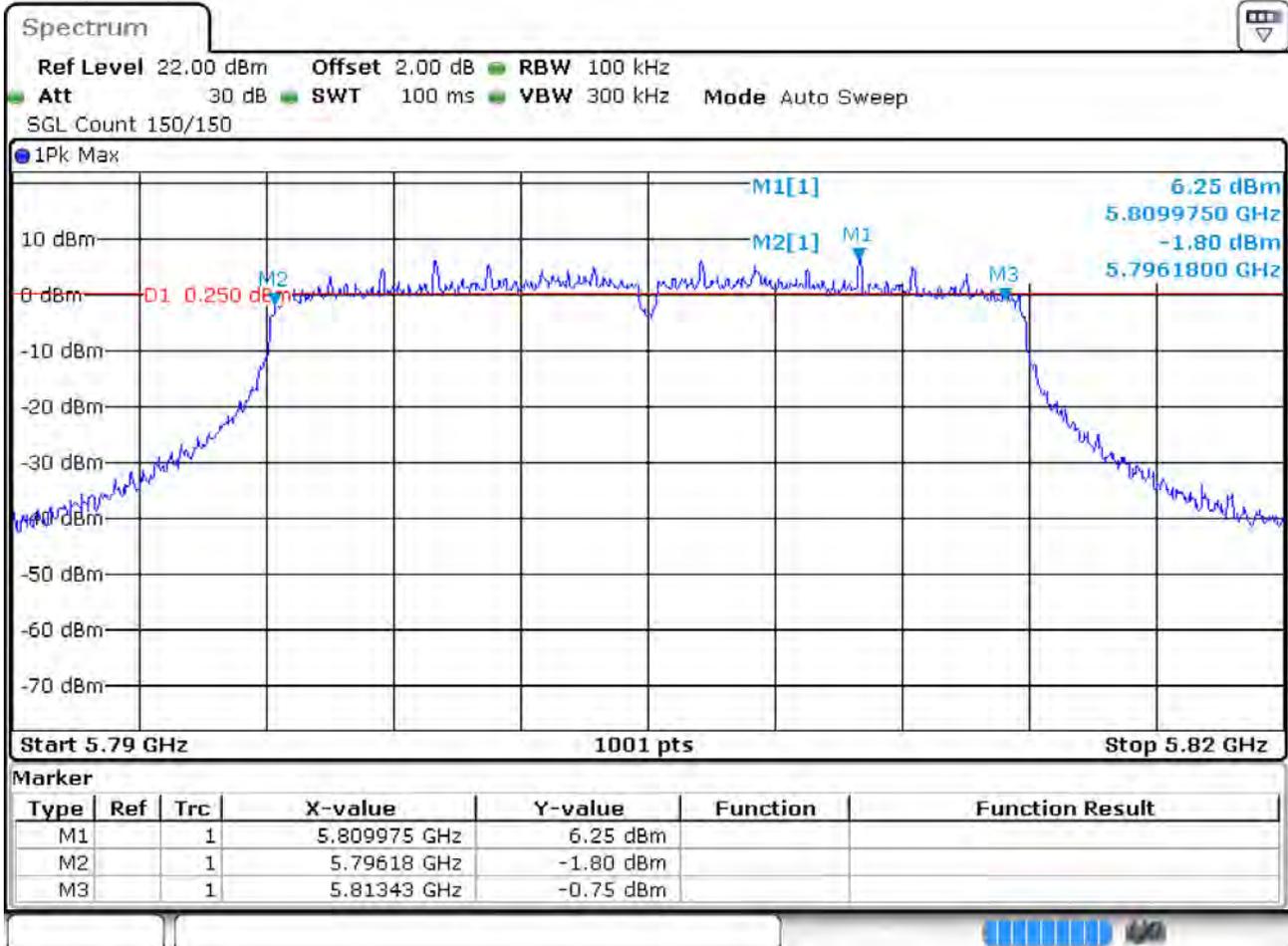


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**4.6.2.3 11A20\_CDD\_161 ANT 1**



Date: 21.APR.2020 06:56:25

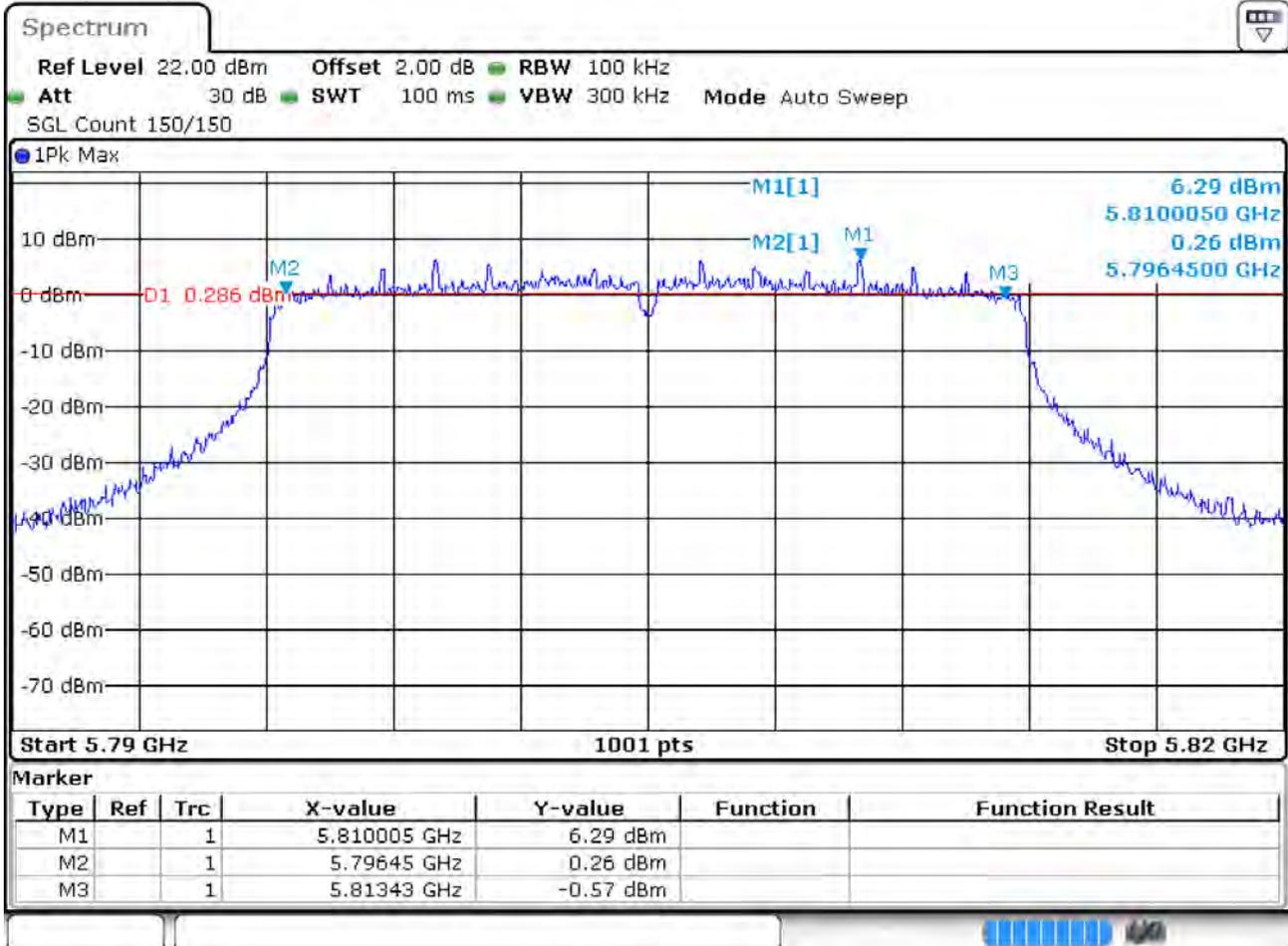


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**4.6.2.4 11A20\_CDD\_161 ANT 2**



Date: 21.APR.2020 06:54:51

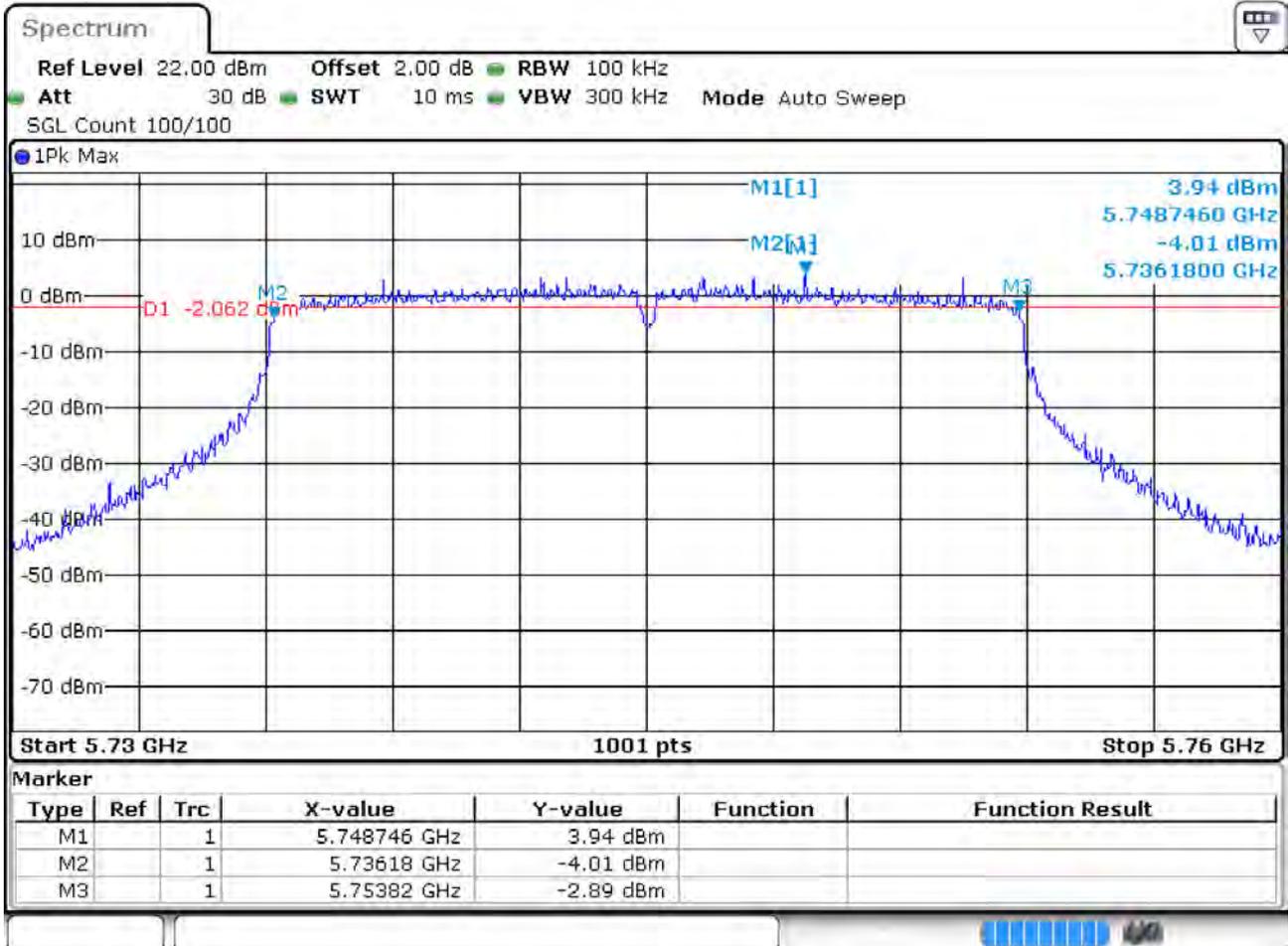


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**4.6.2.5 11N20MIMO\_149 ANT 1**



Date: 9.APR.2020 04:33:08

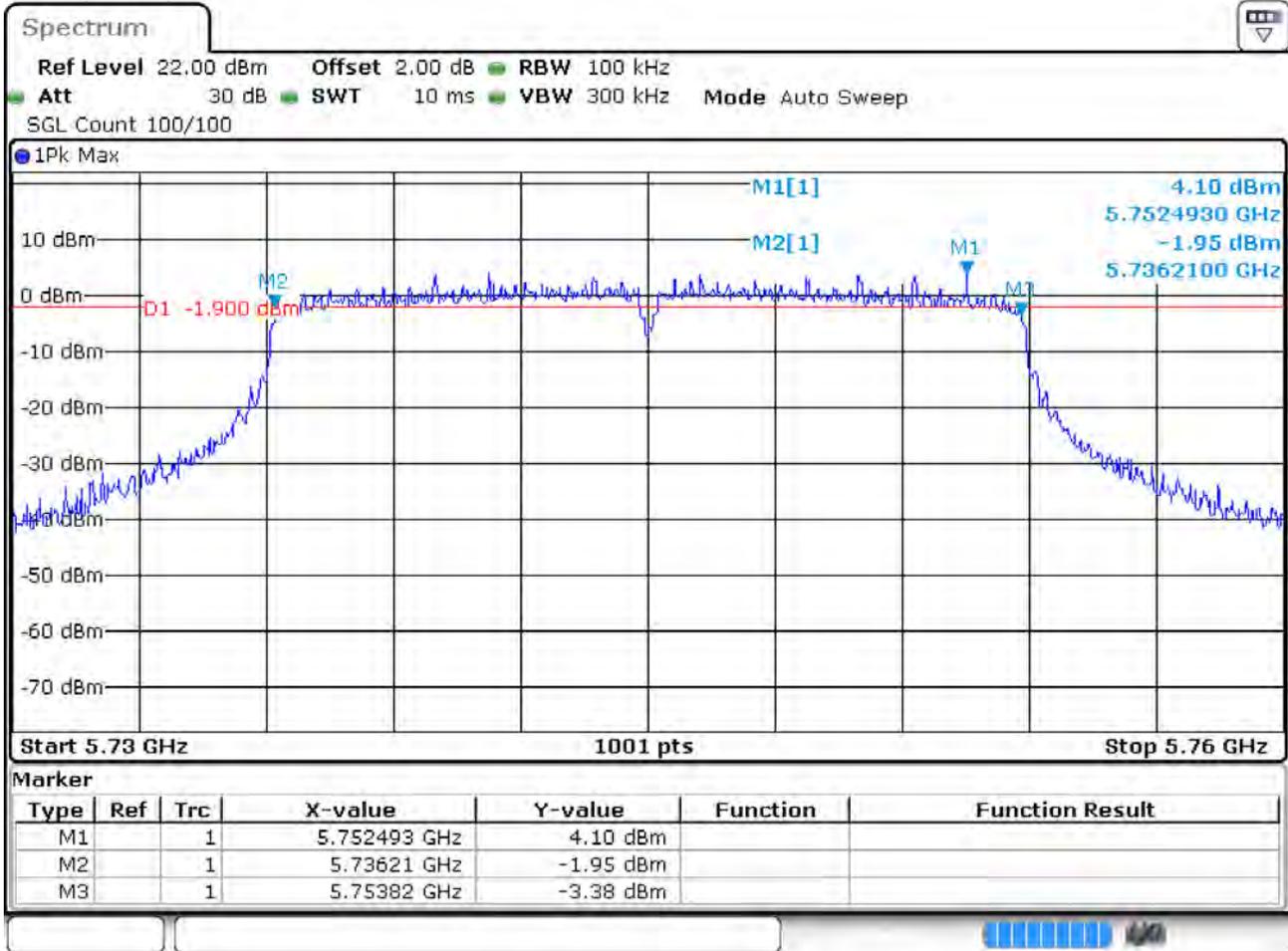


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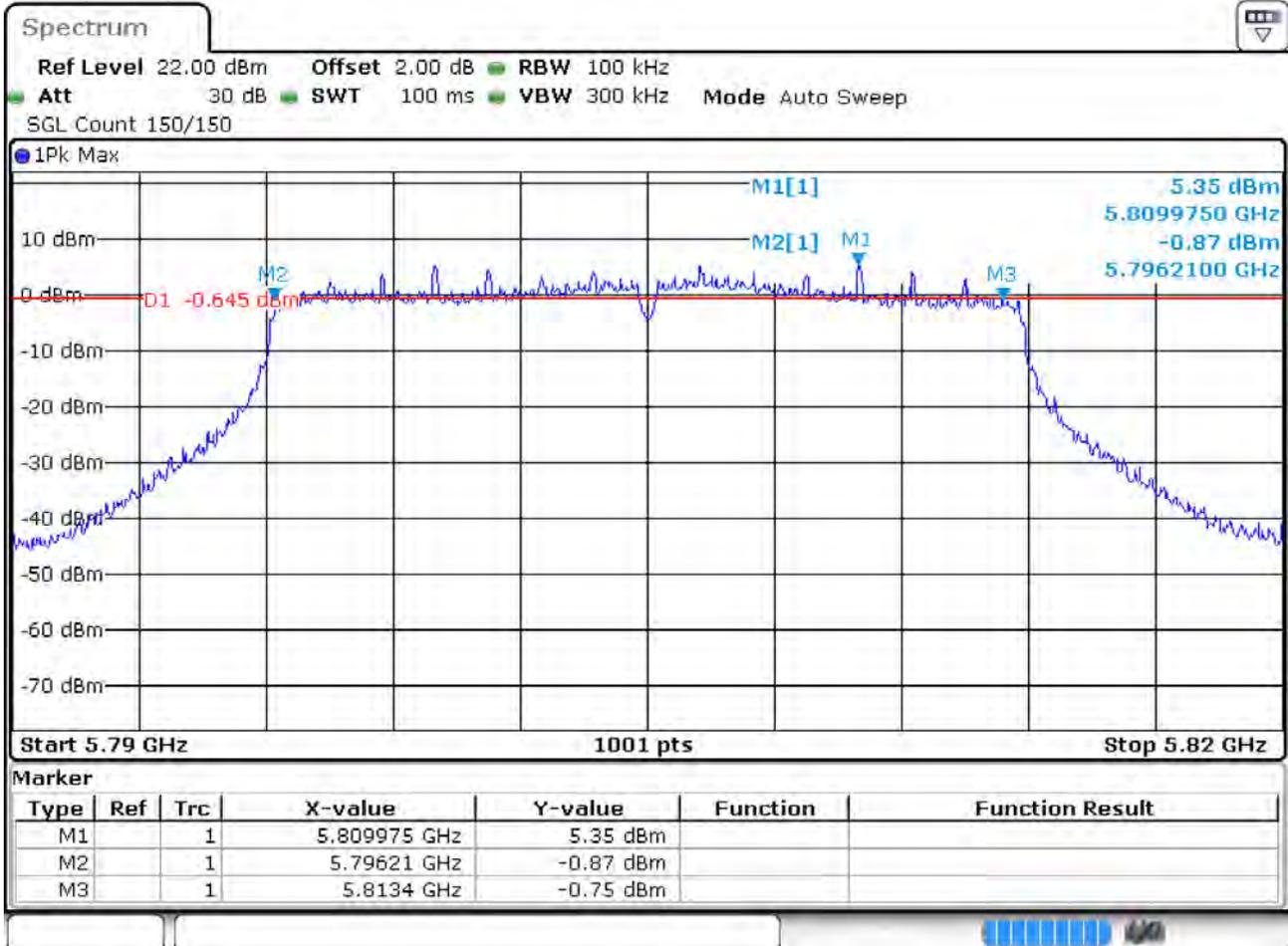
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Date: 9.APR.2020 07:41:31



**4.6.2.7 11N20MIMO\_161 ANT 1**



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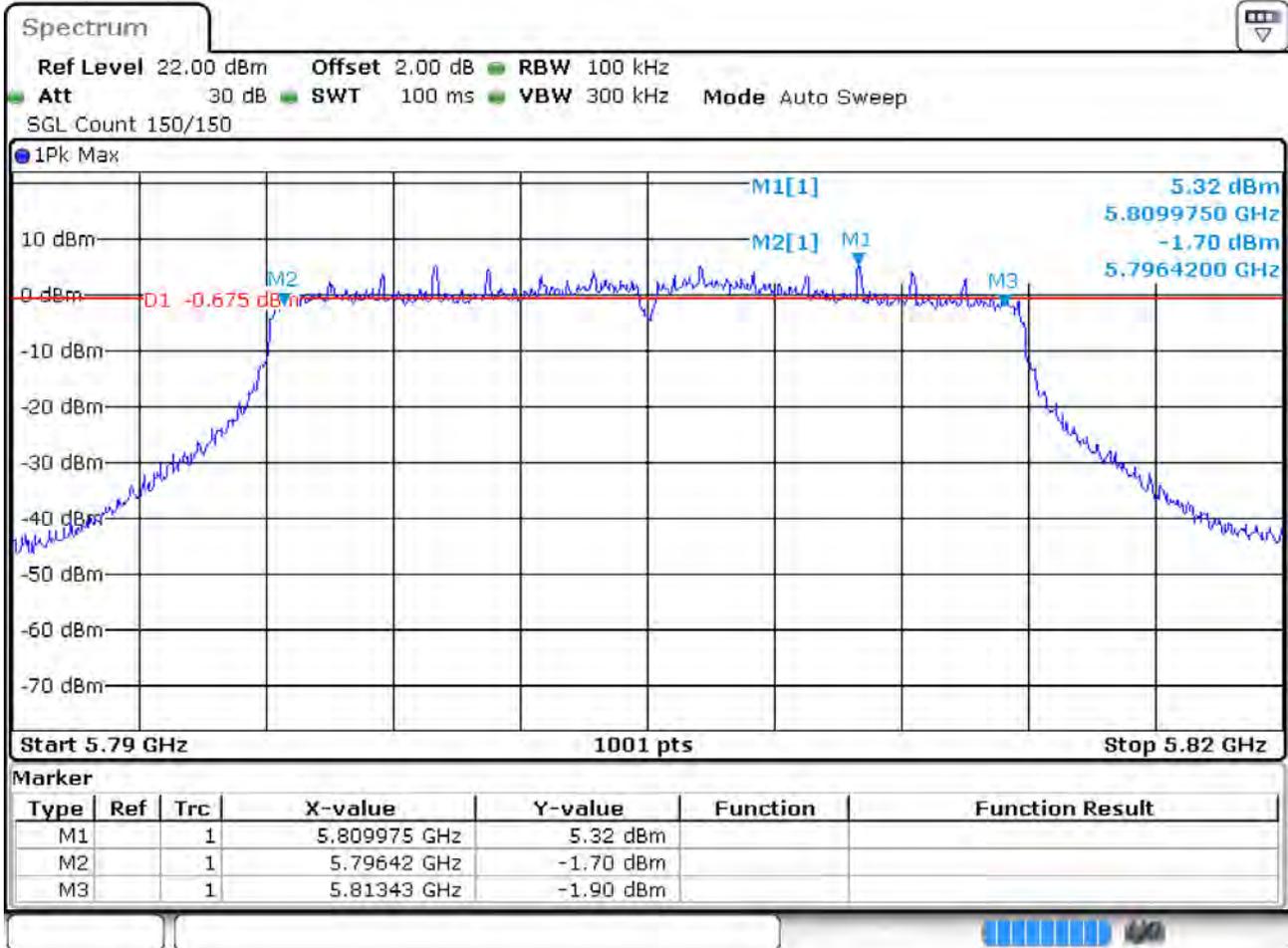


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**4.6.2.8 11N20MIMO\_161 ANT 2**



Date: 21.APR.2020 06:49:31

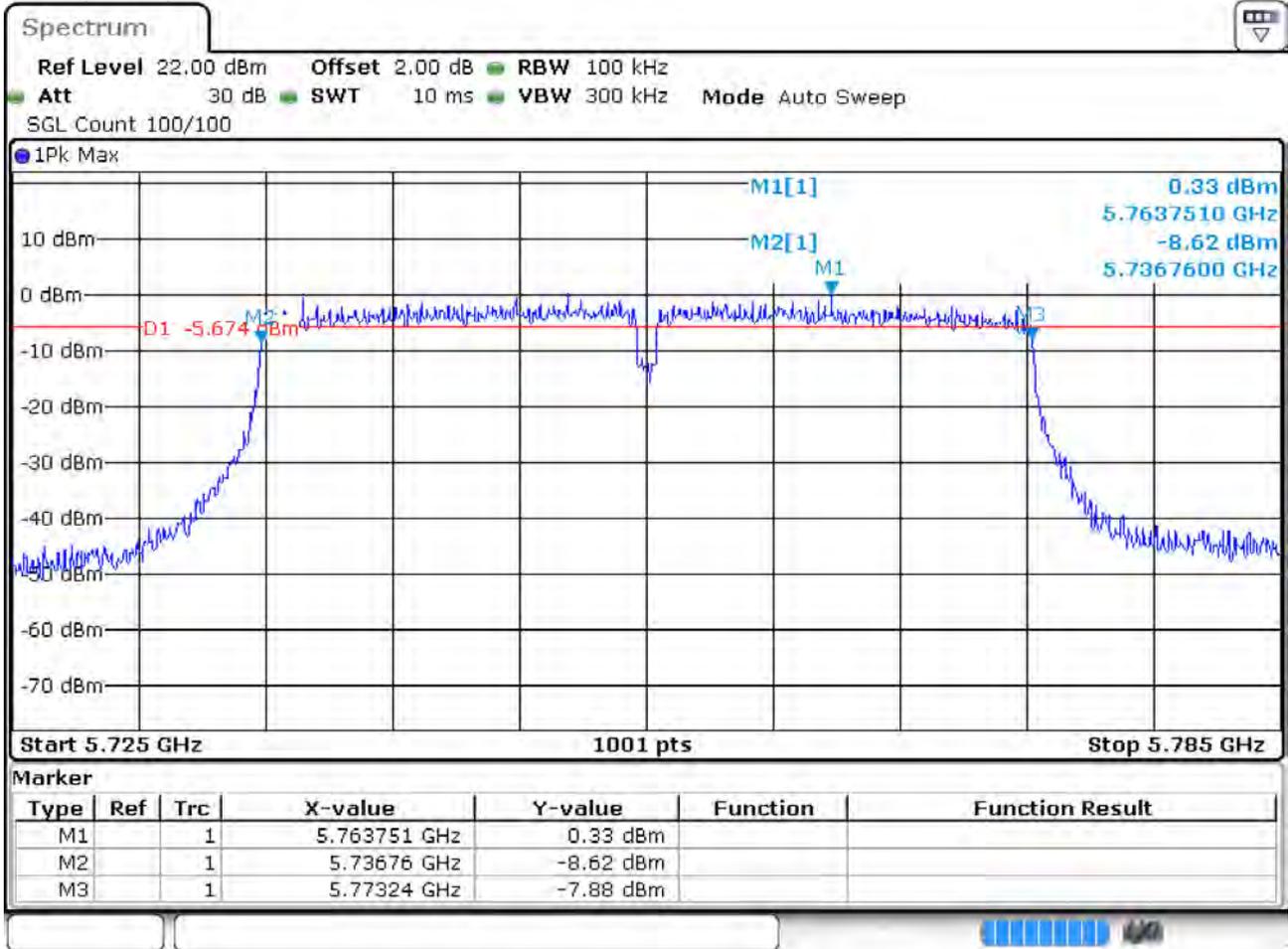


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**4.6.2.9 11N40MIMO\_151 ANT 1**

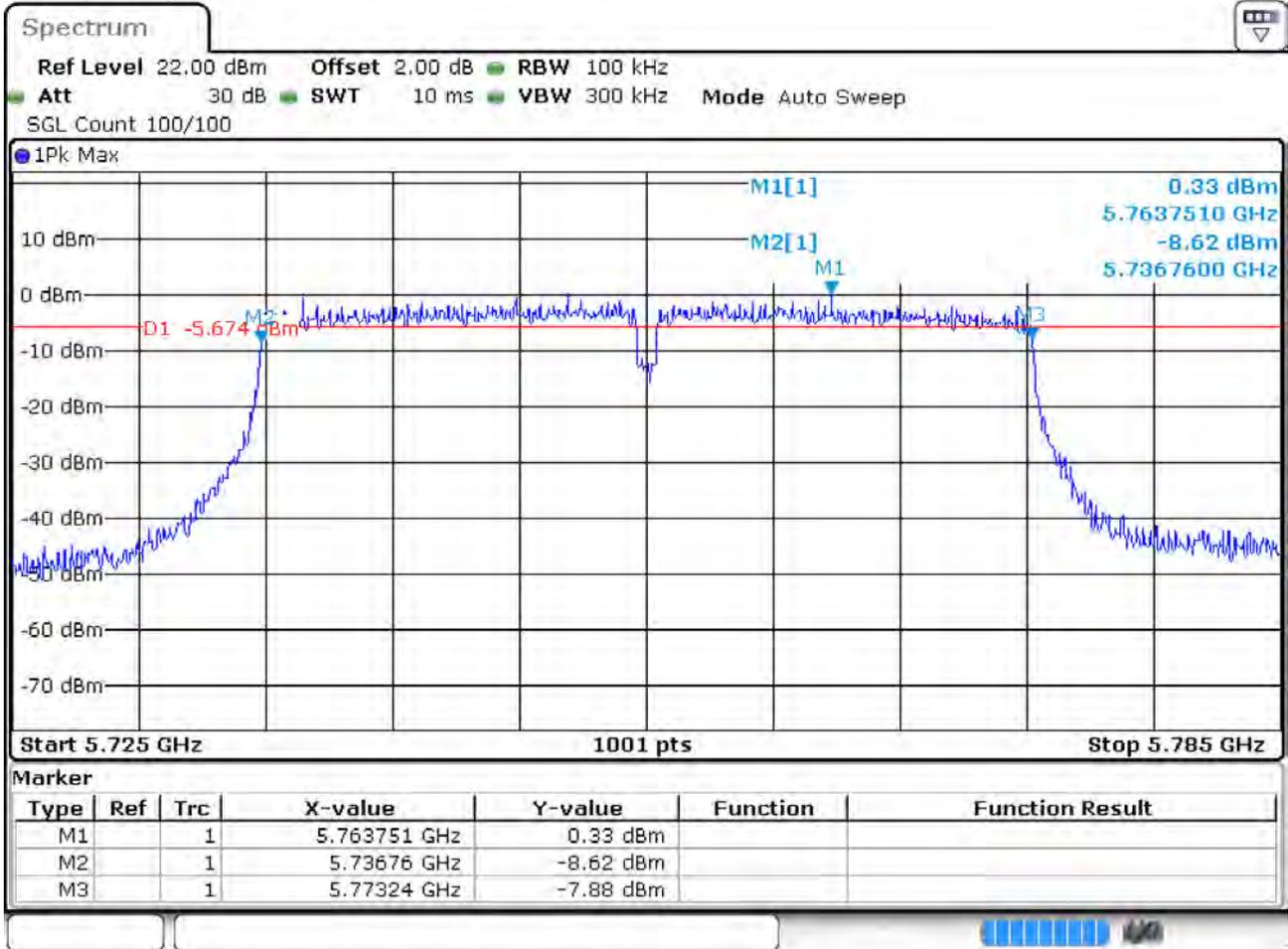


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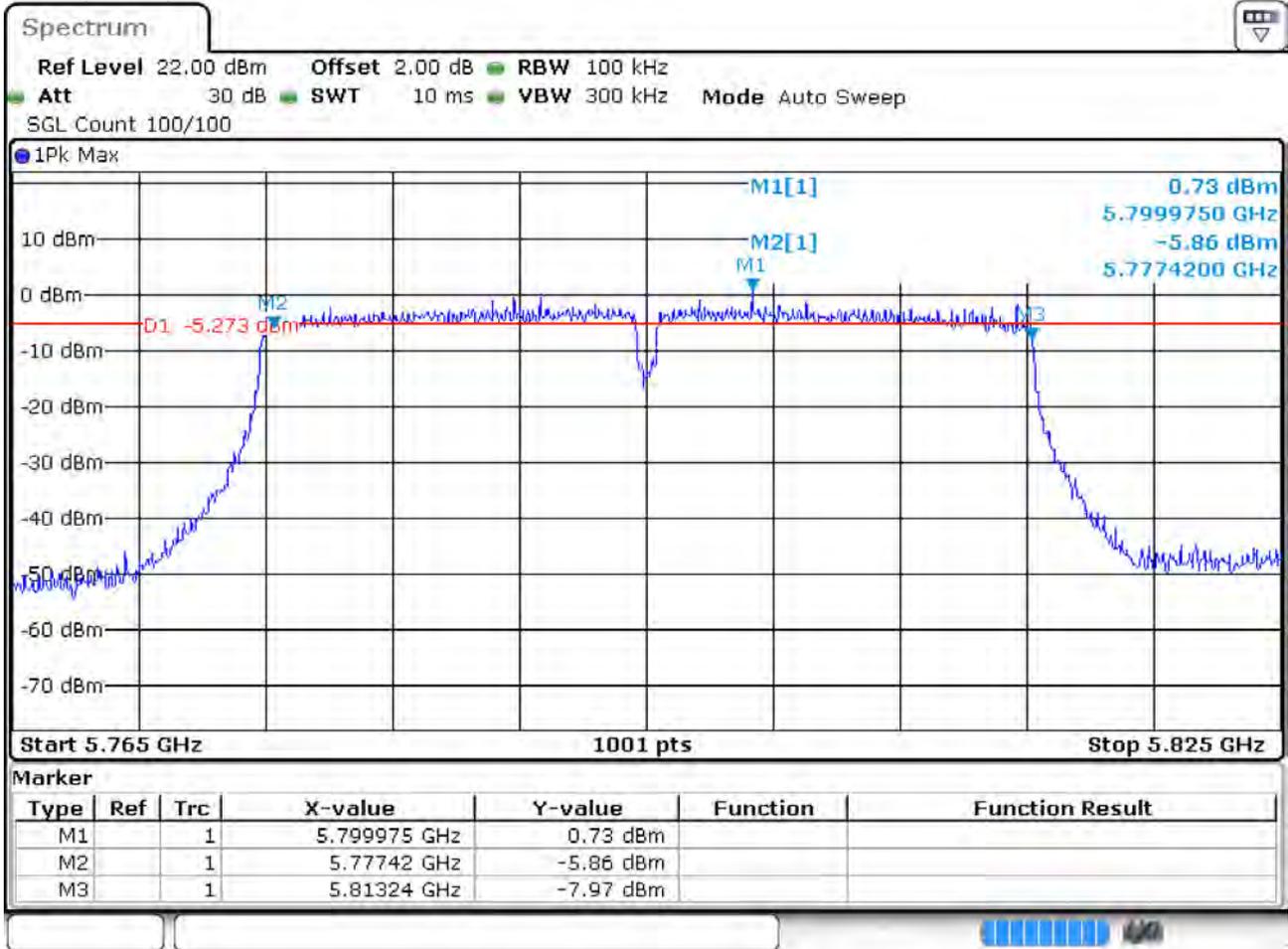
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Date: 9.APR.2020 08:17:00



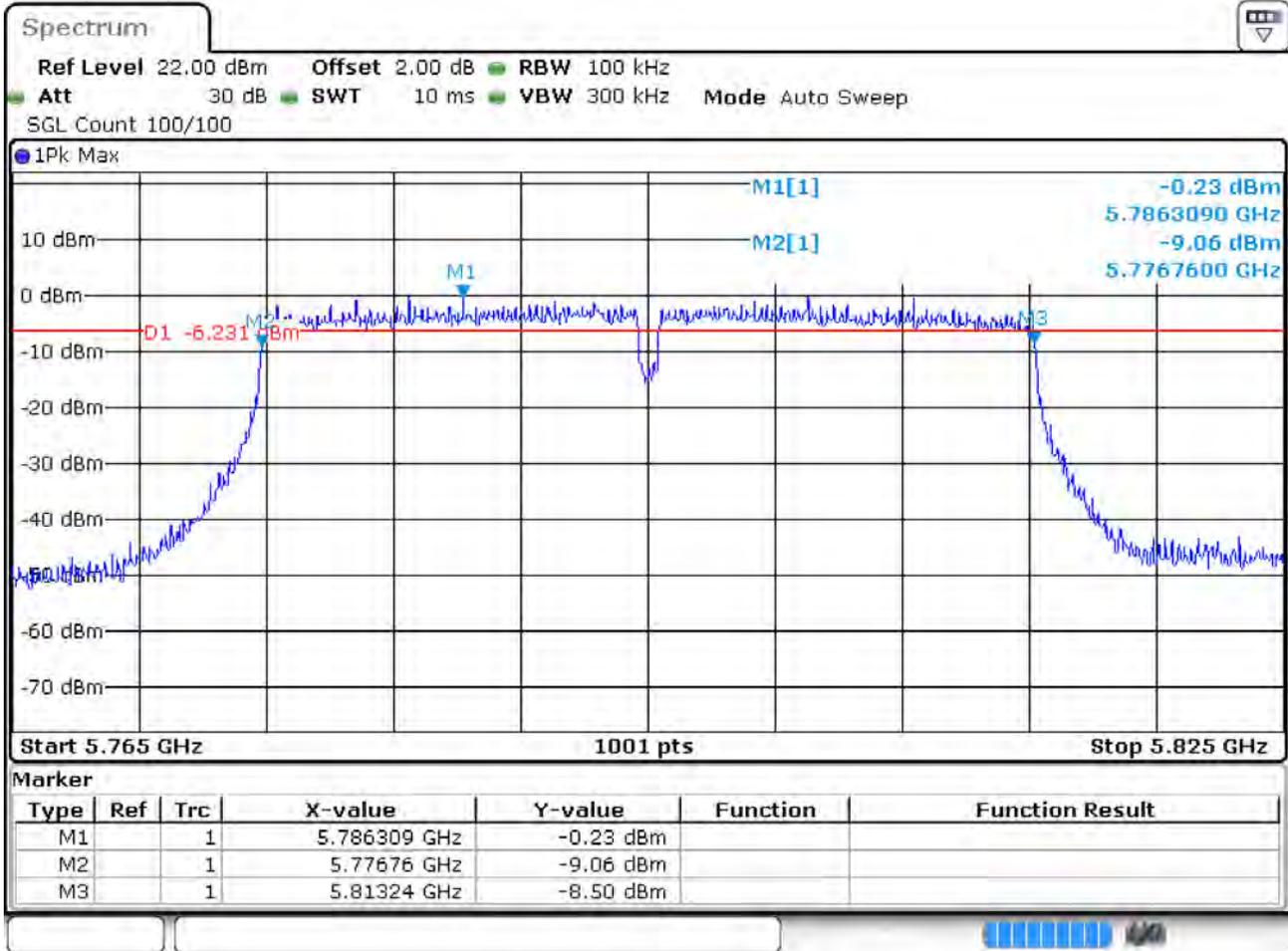
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**4.6.2.12 11N40MIMO\_159 ANT 2**



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**4.6.2.13 11AC20MIMO\_149 ANT 1**



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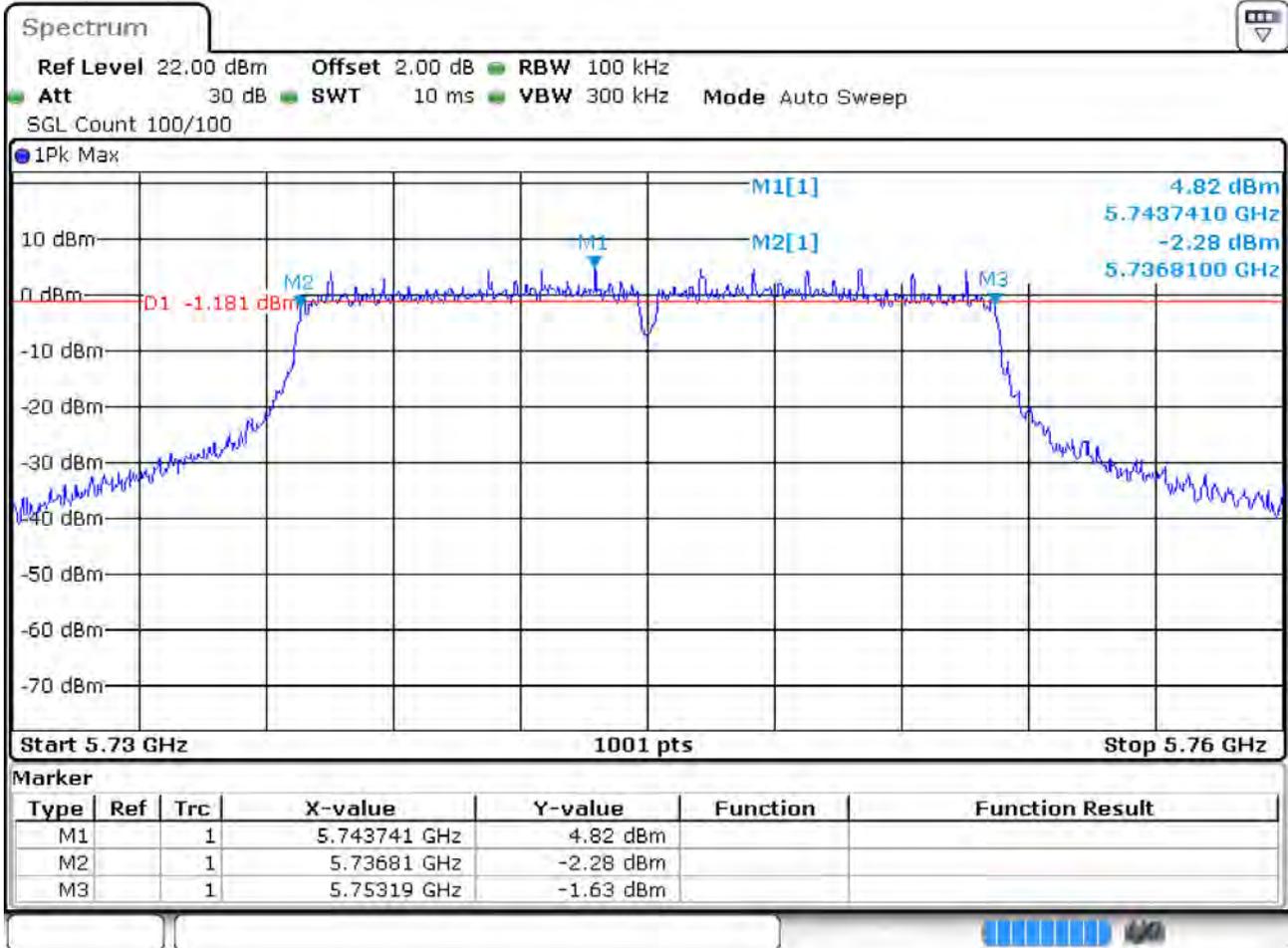


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**4.6.2.14 11AC20MIMO\_149 ANT 2**

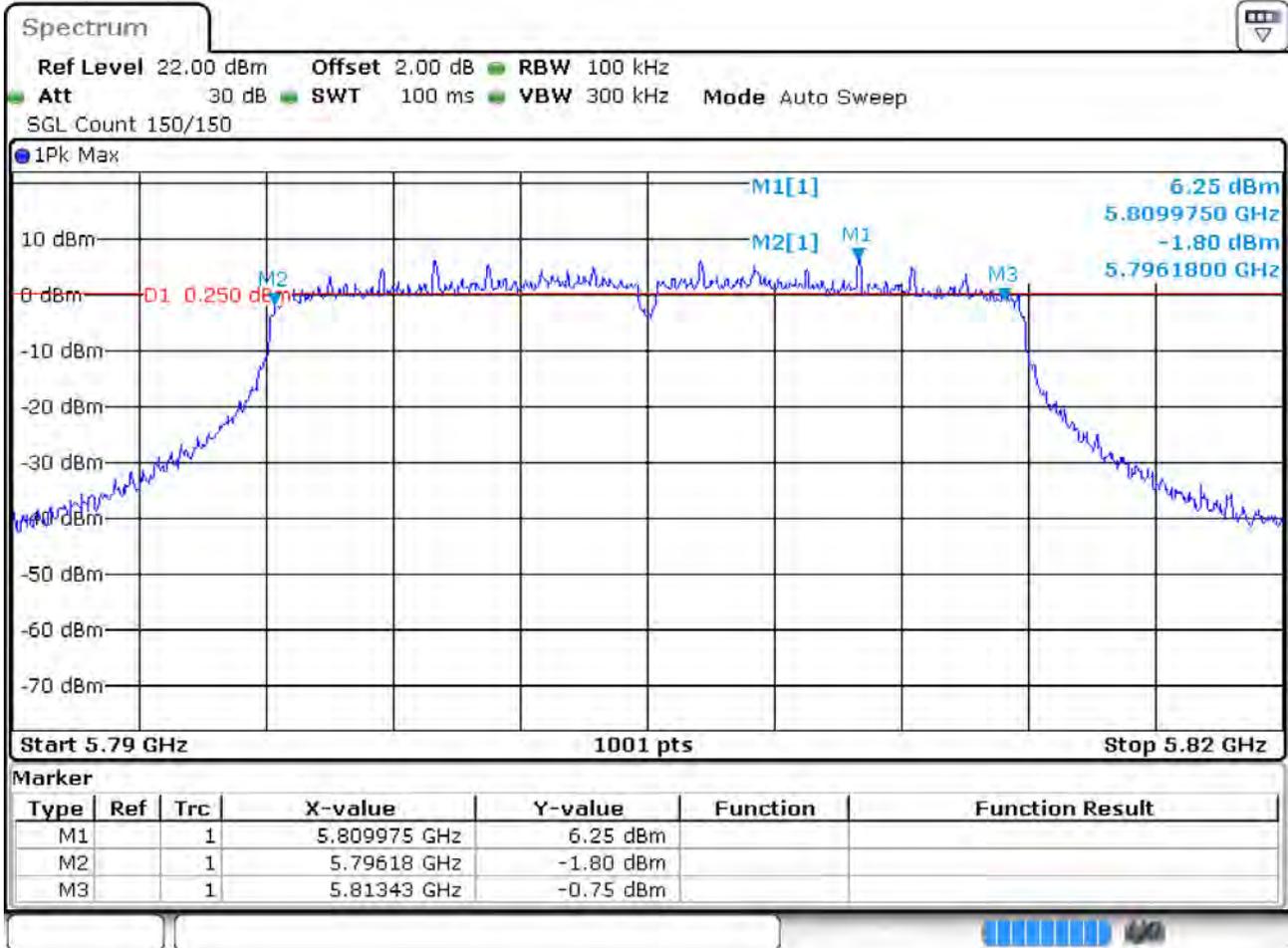


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**4.6.2.15 11AC20MIMO\_161 ANT 1**



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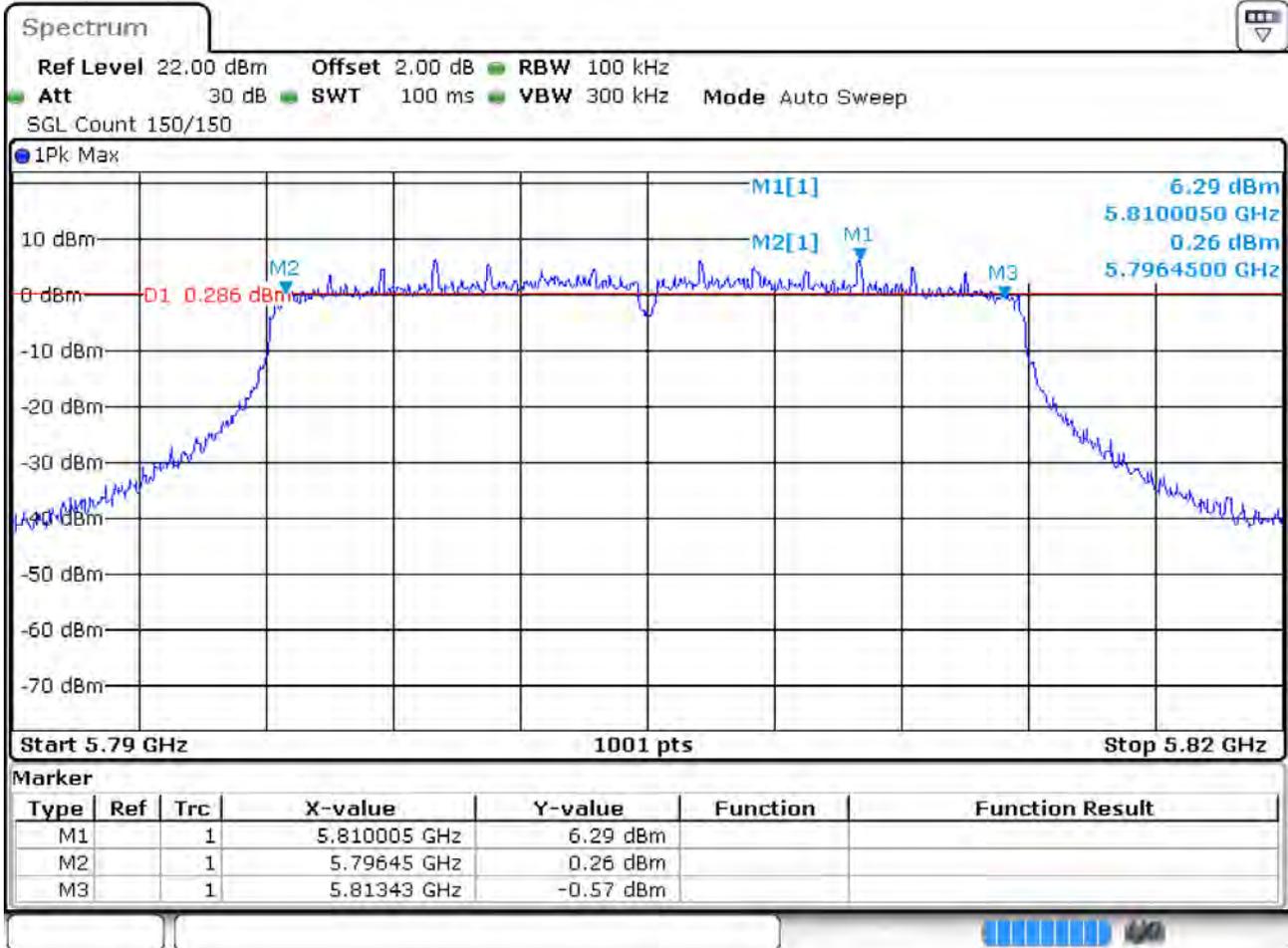


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**4.6.2.16 11AC20MIMO\_161 ANT 2**



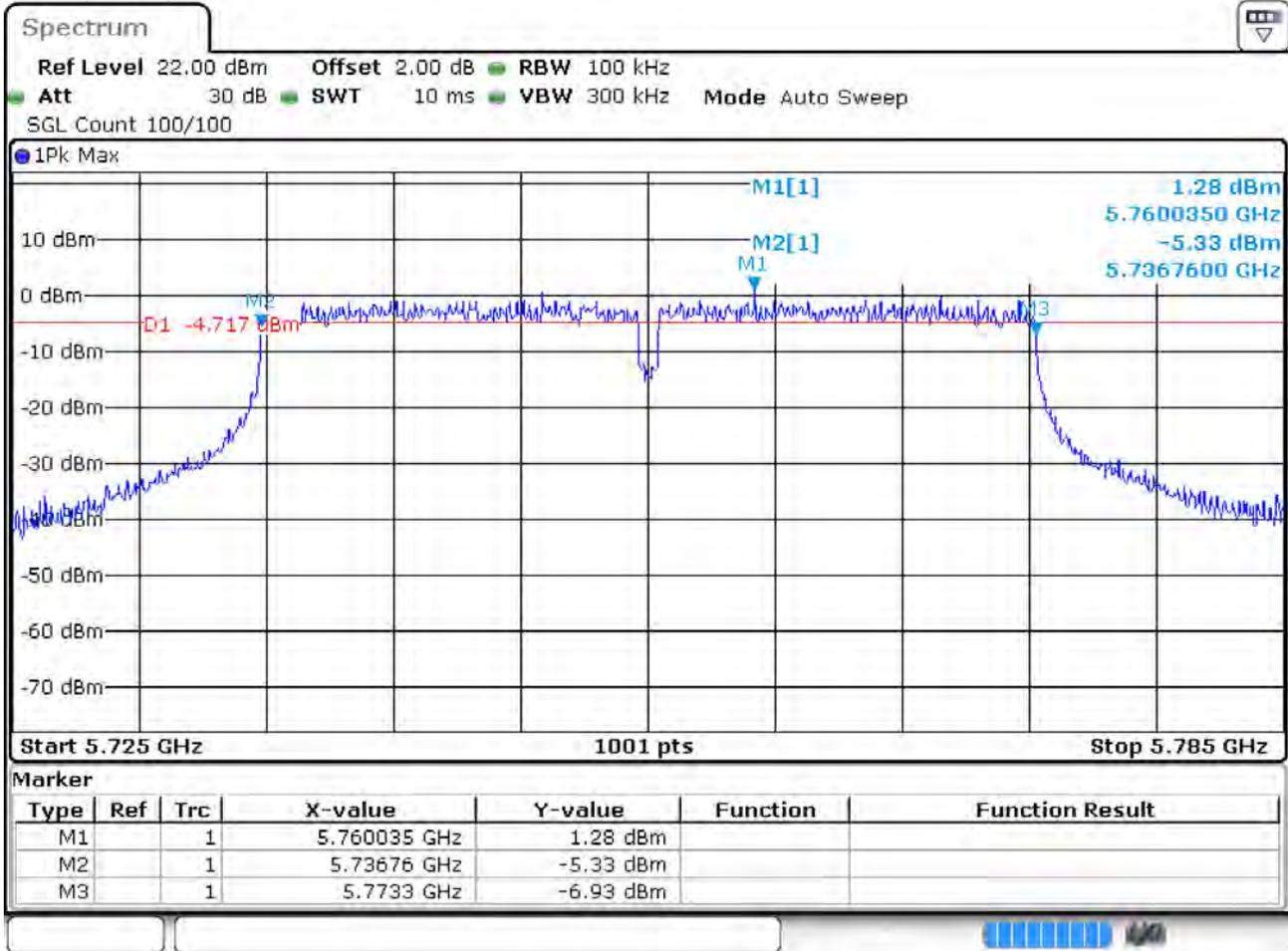
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**4.6.2.17 11AC40MIMO\_151 ANT 1**



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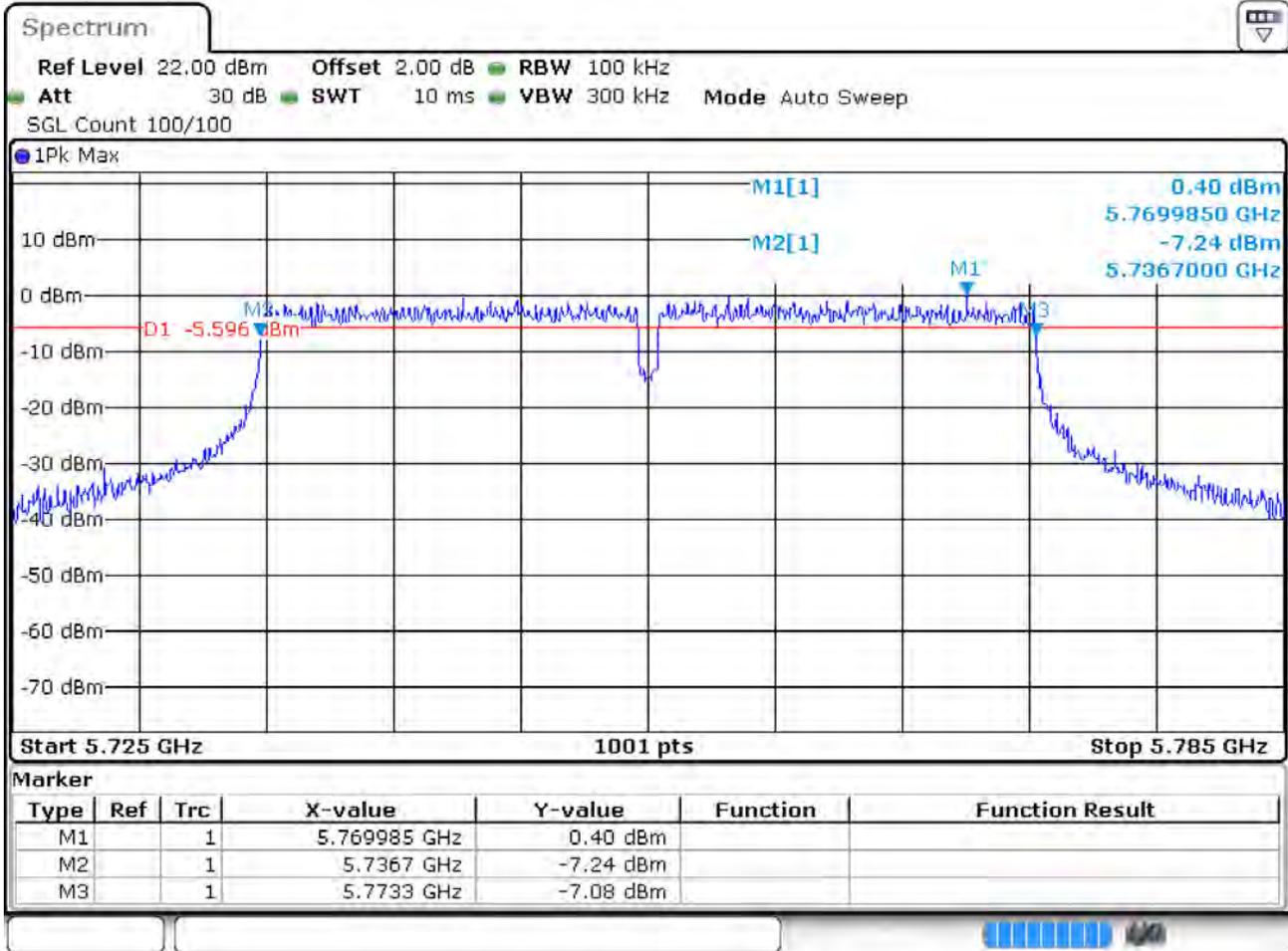


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**4.6.2.18 11AC40MIMO\_151 ANT 2**



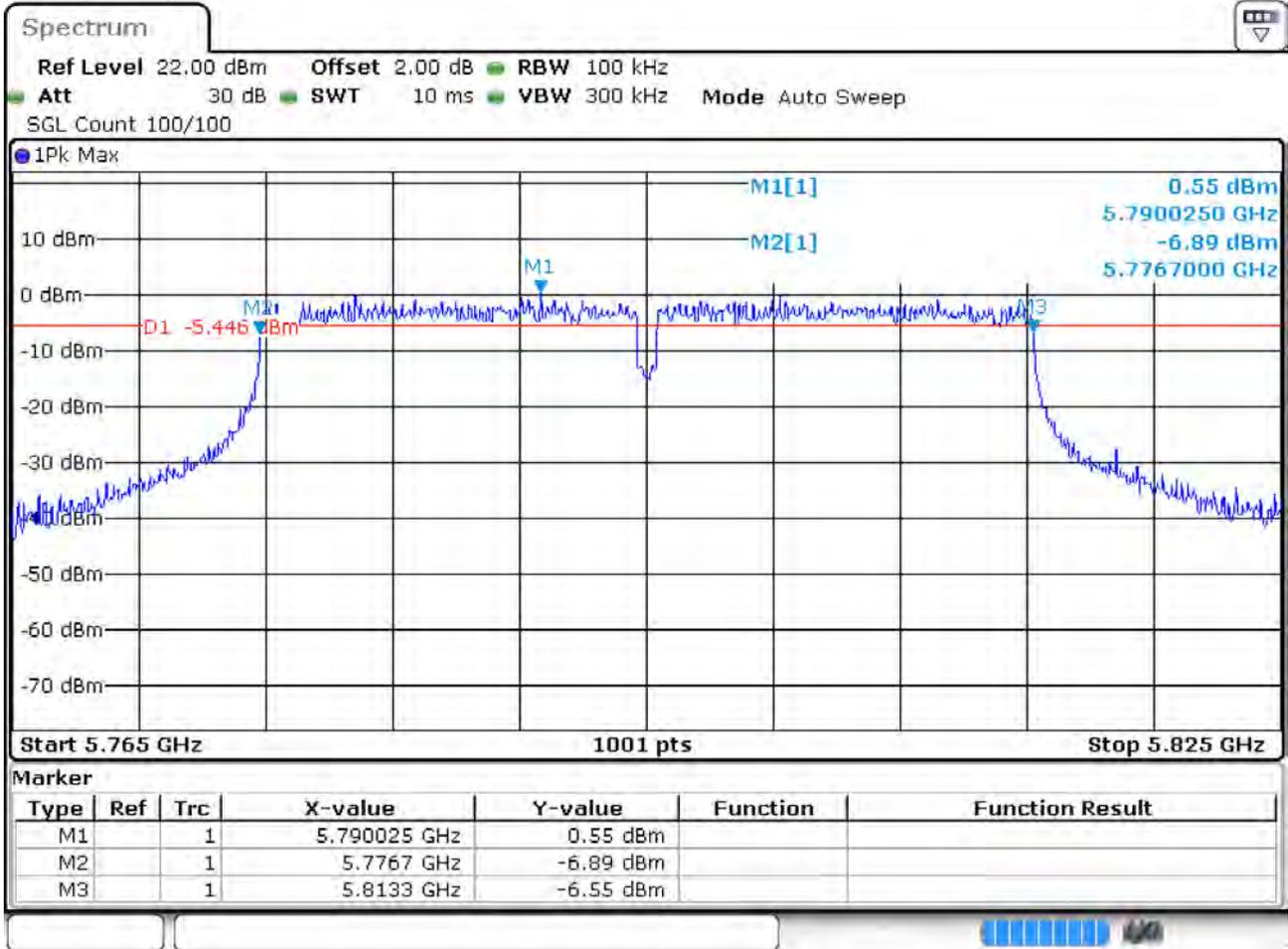
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**4.6.2.19 11AC40MIMO\_159 ANT 1**

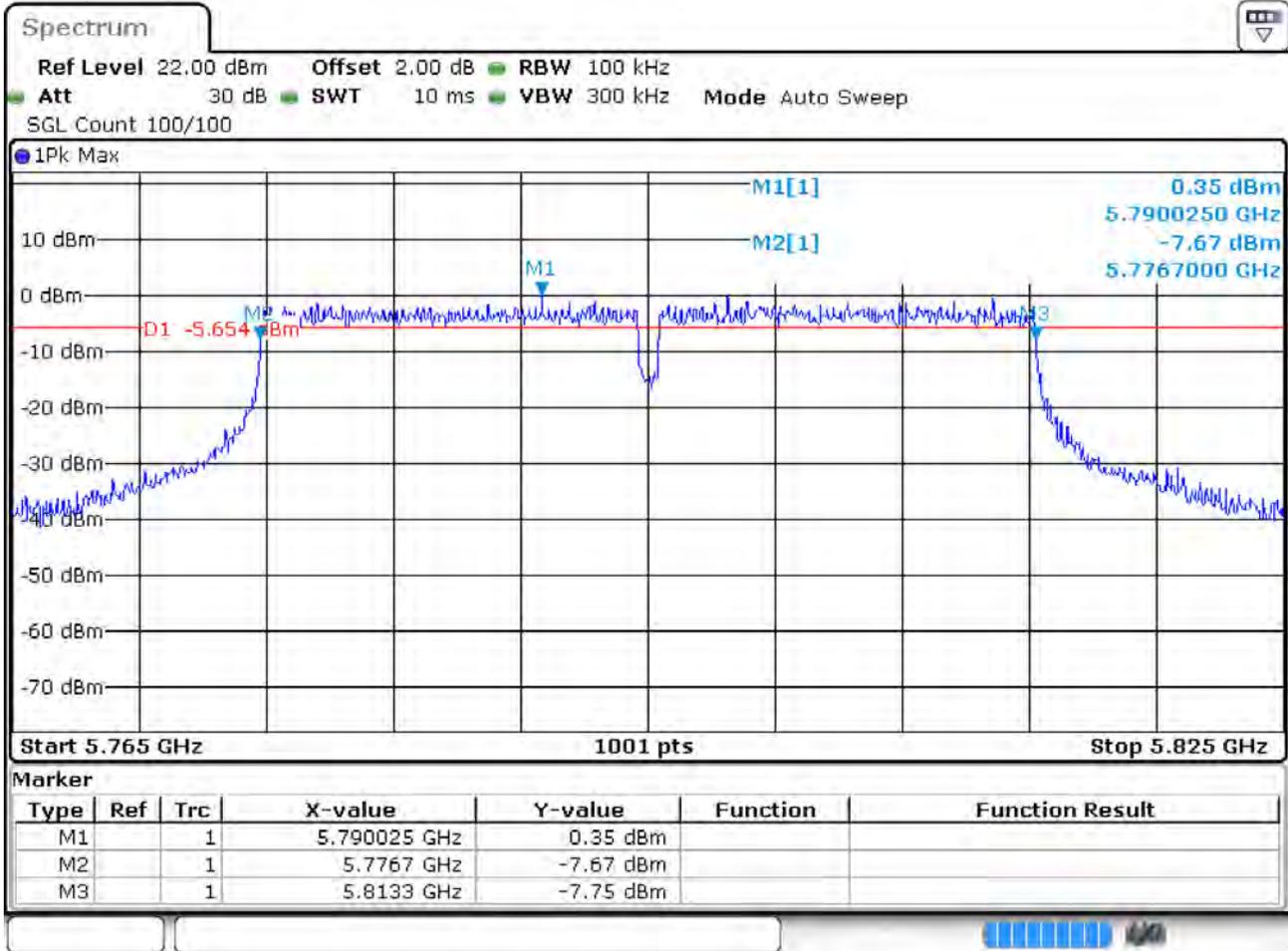


Date: 9 APR 2020 07:01:12



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**4.6.2.20 11AC40MIMO\_159 ANT 2**

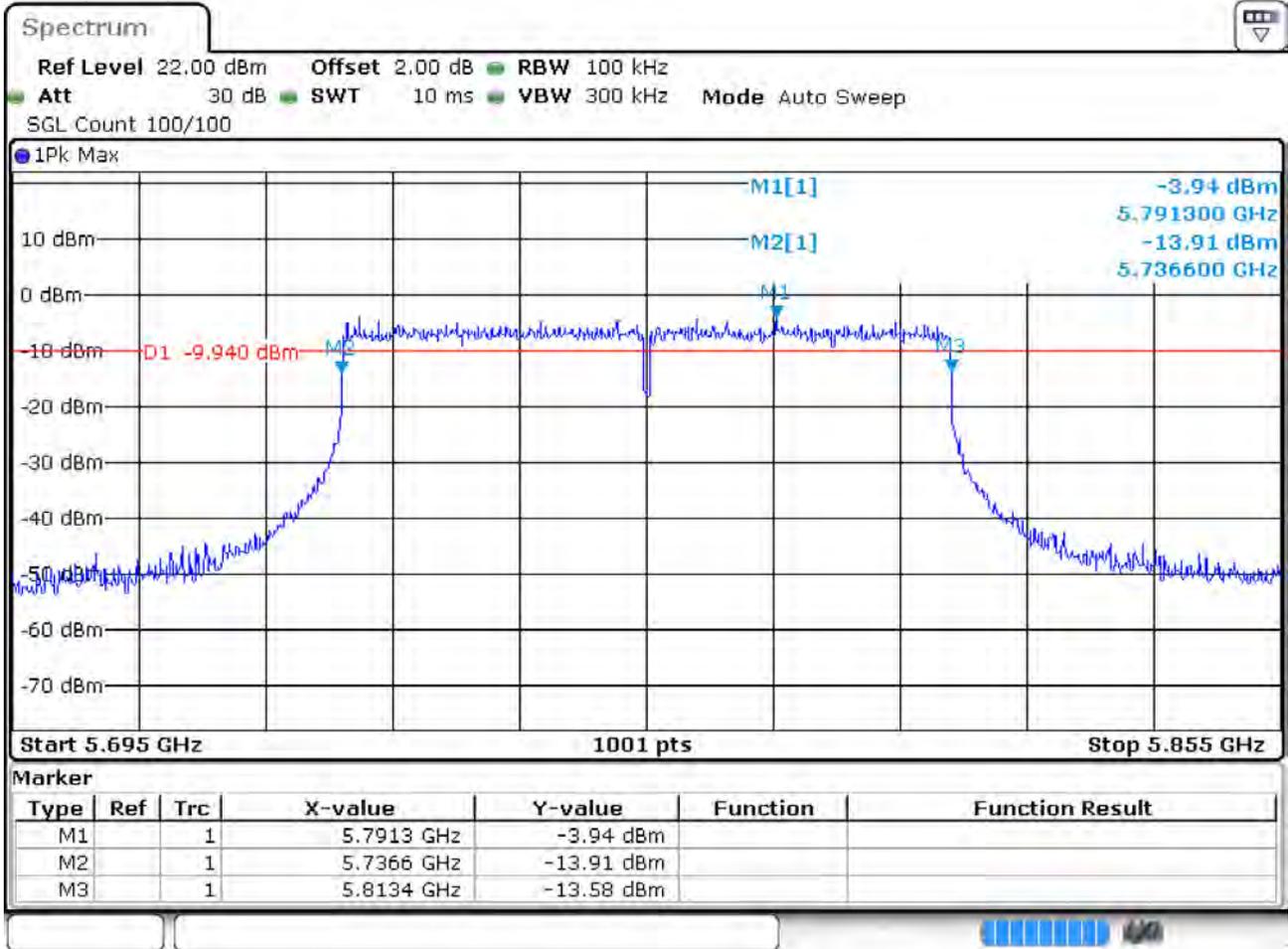


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**4.6.2.21 11AC80MIMO\_155 ANT 1**



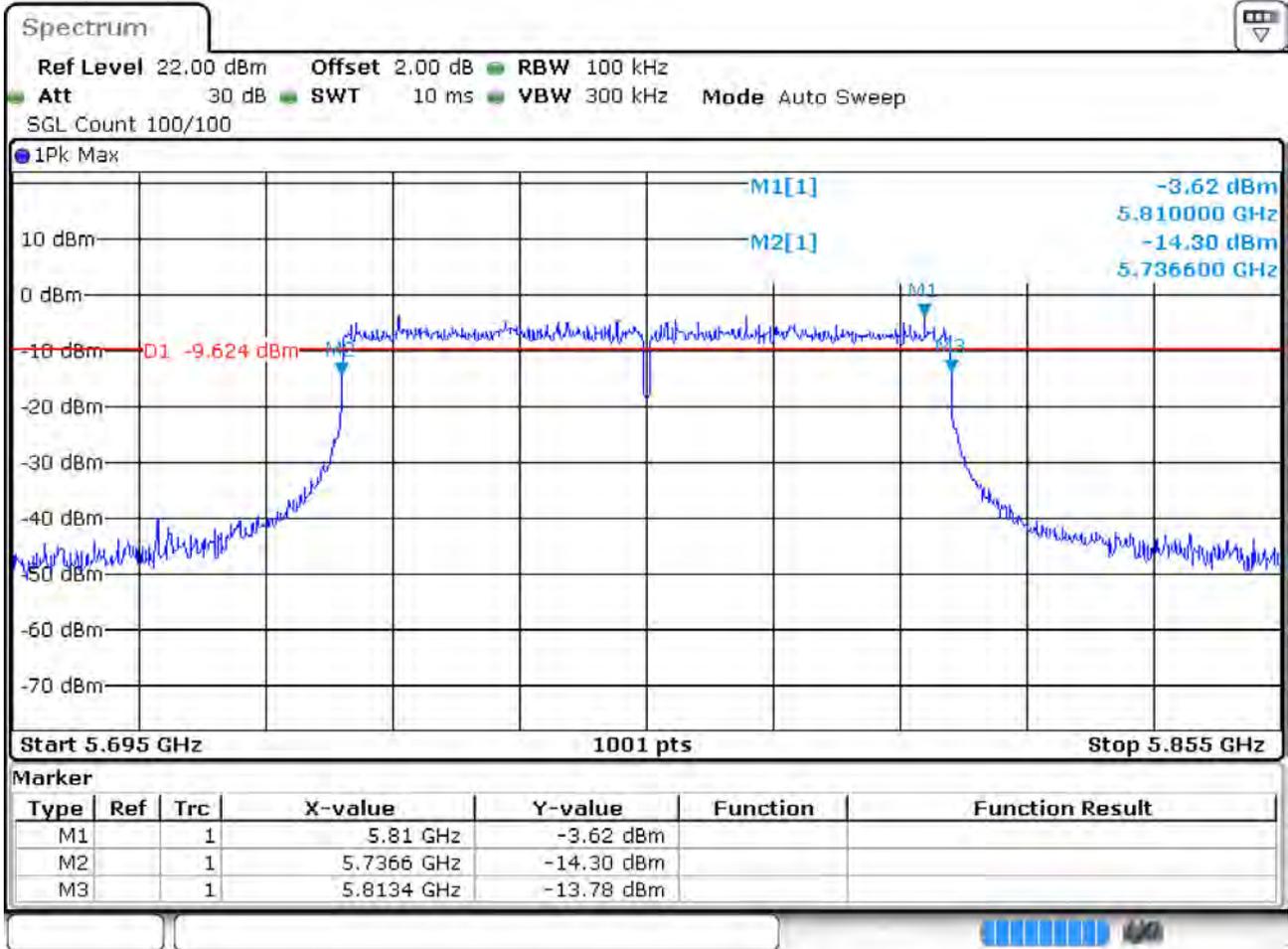
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**4.6.2.22 11AC80MIMO\_155 ANT 2**

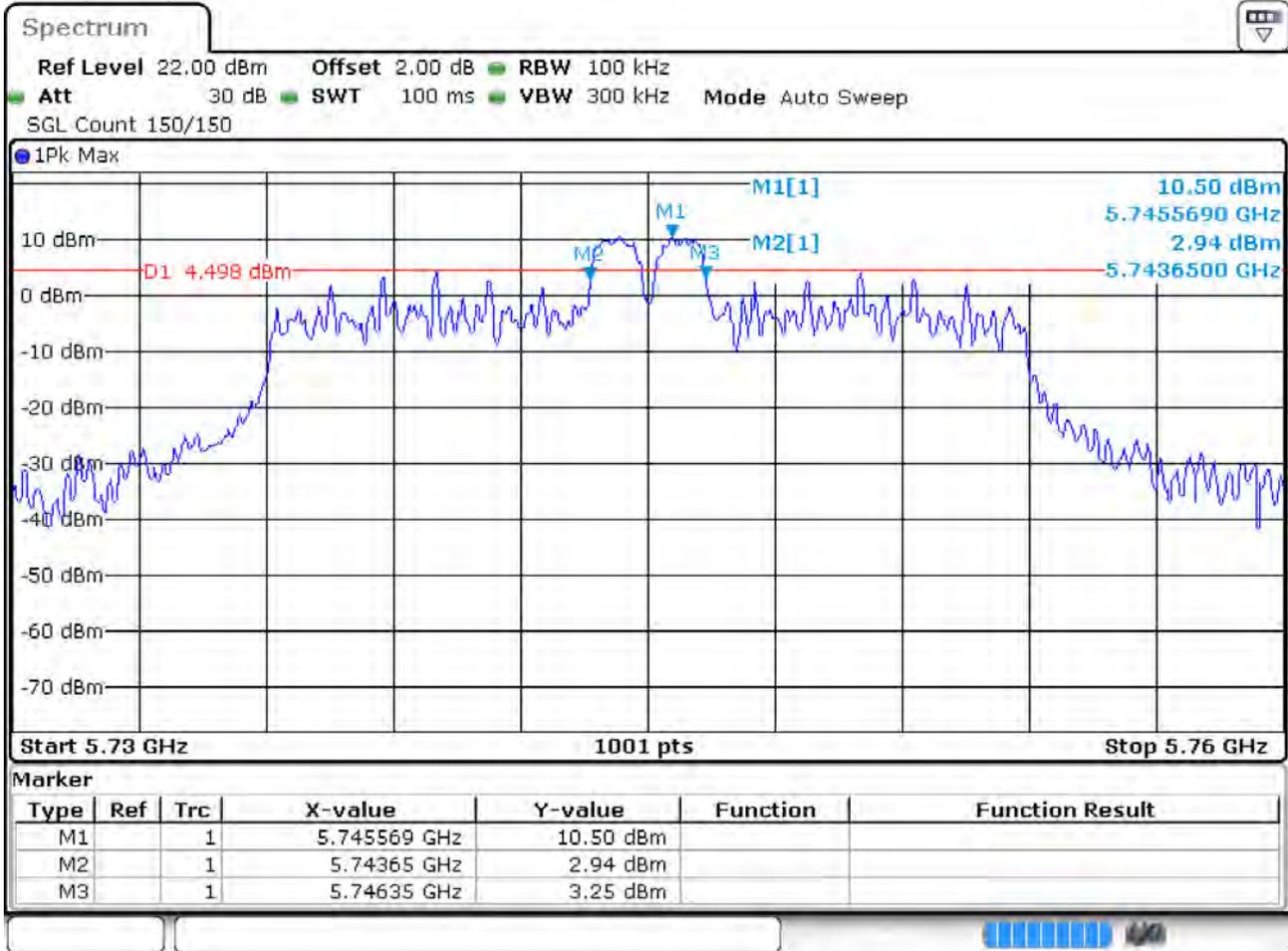


Date: 9 APR 2020 07:12:24



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**4.6.2.23 11AX20MIMO\_26T\_149 ANT 1**



Date: 11.APR.2020 07:27:06

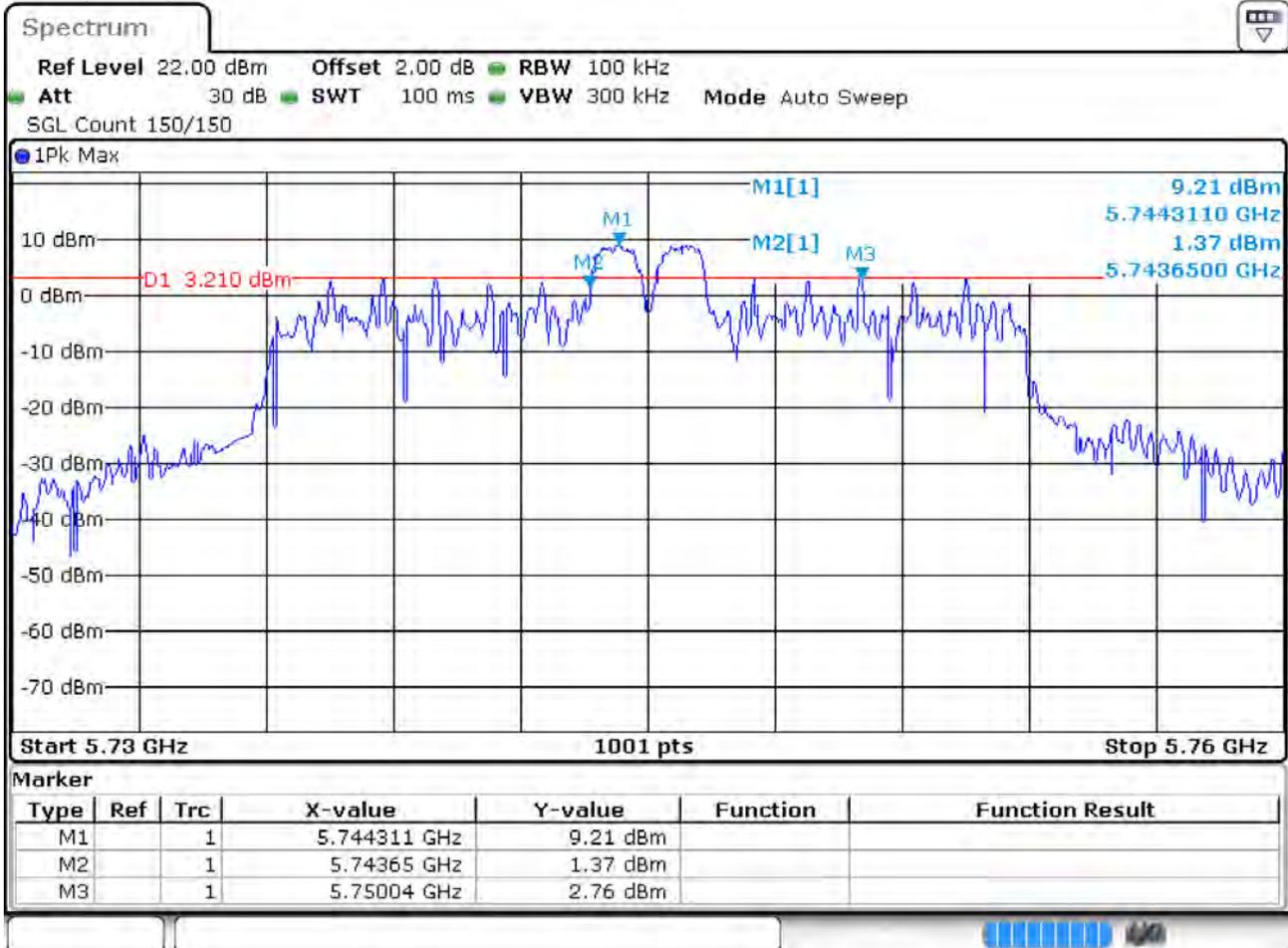


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**4.6.2.24 11AX20MIMO\_26T\_149 ANT 2**



Date: 11.APR.2020 07:35:00

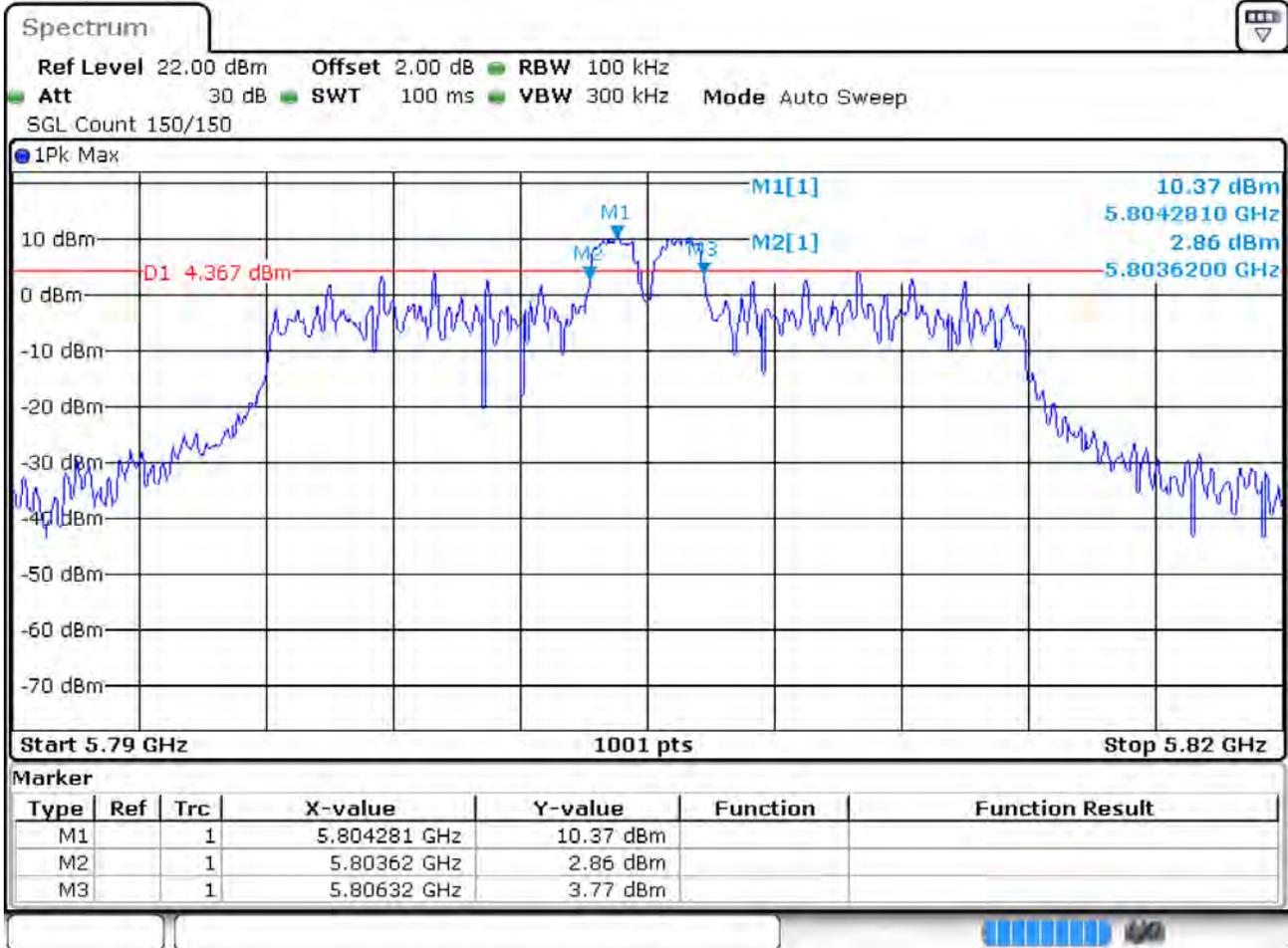


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**4.6.2.25 11AX20MIMO\_26T\_161 ANT 1**



Date: 26 APR 2020 08:45:59

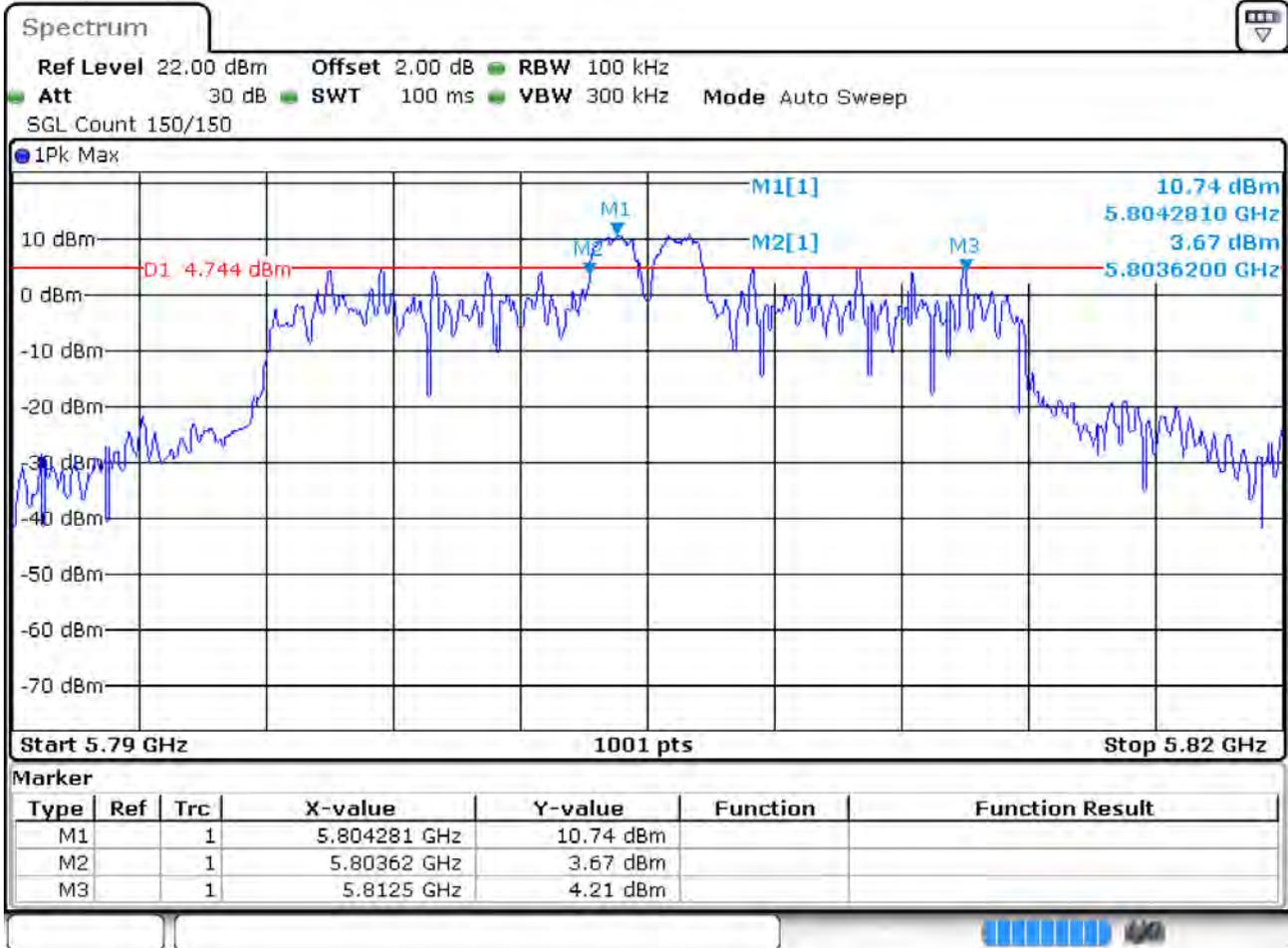


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**4.6.2.26 11AX20MIMO\_26T\_161 ANT 2**



Date: 26 APR 2020 08:49:21

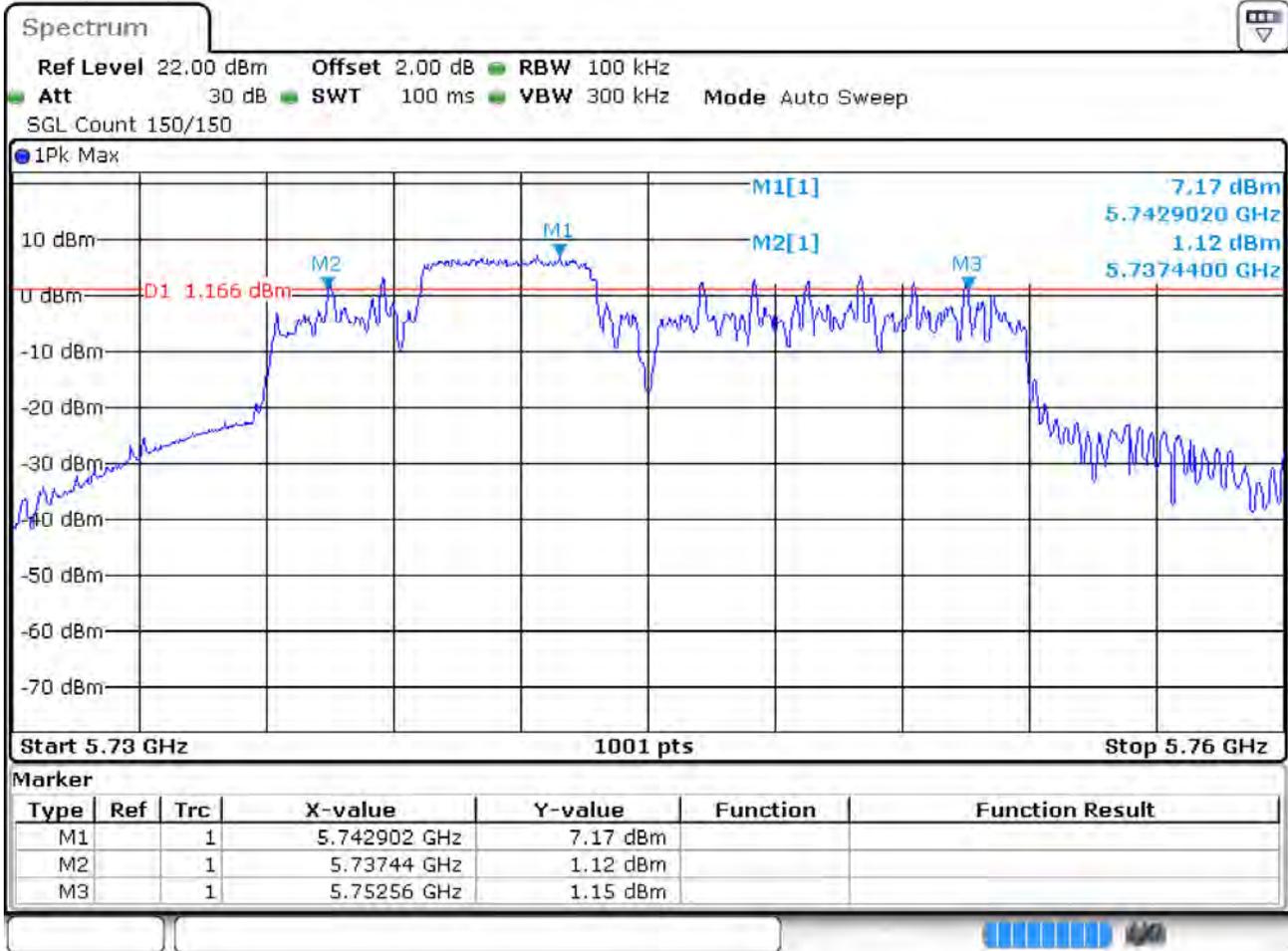


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**4.6.2.27 11AX20MIMO\_52T\_149 ANT 1**



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**4.6.2.28 11AX20MIMO\_52T\_149 ANT 2**



Date: 11.APR.2020 09:01:26

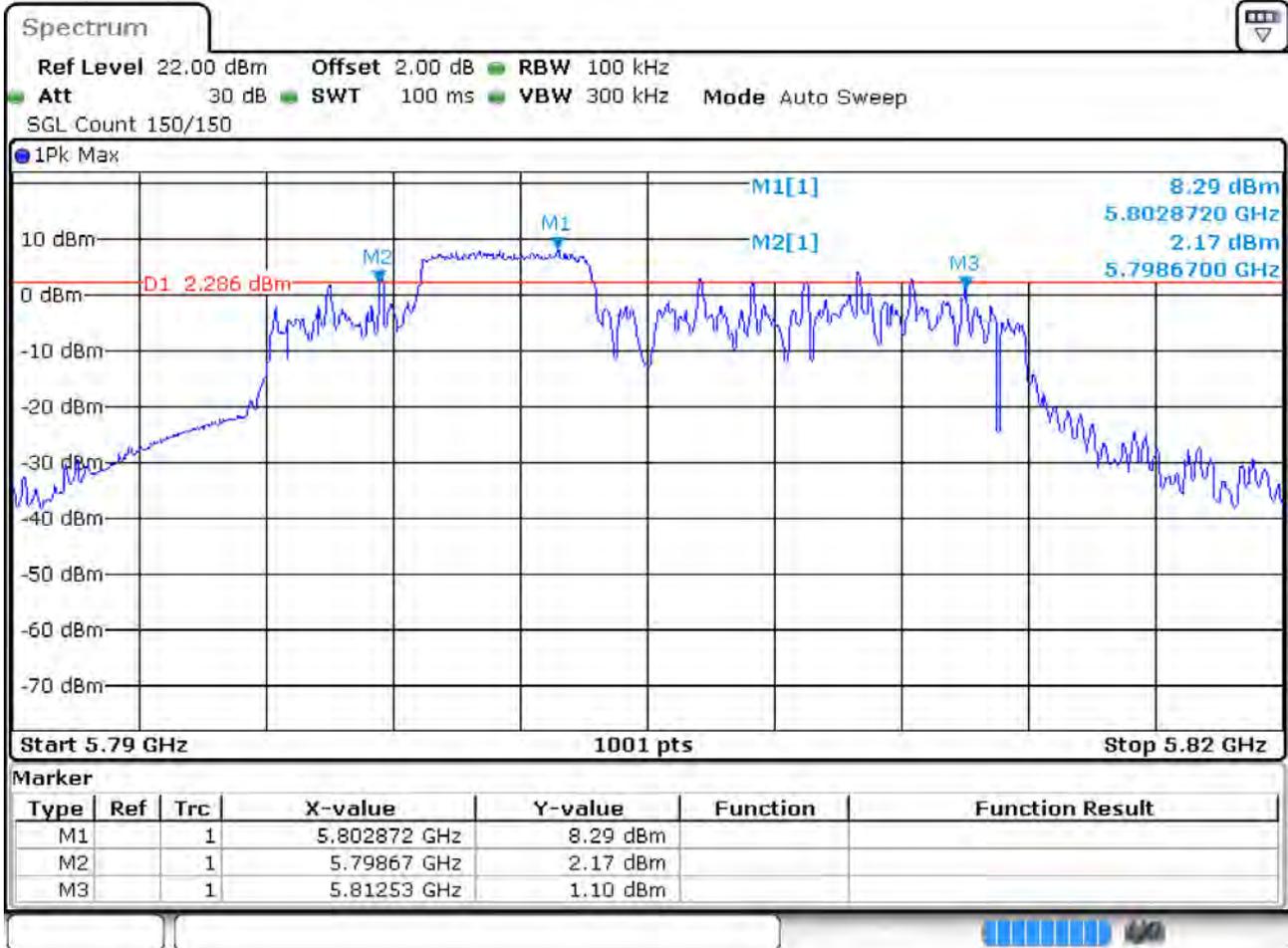


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**4.6.2.29 11AX20MIMO\_52T\_161 ANT 1**



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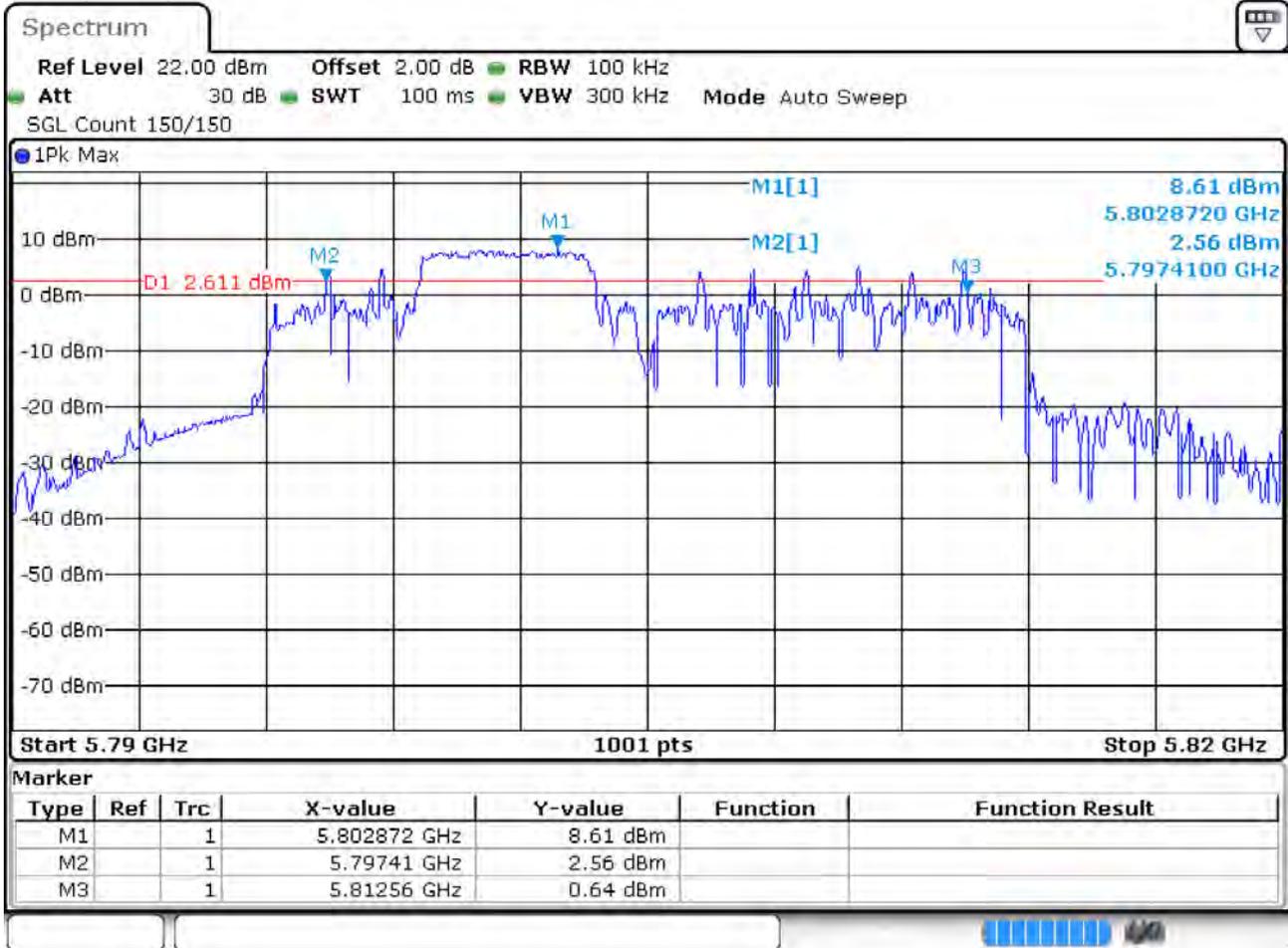


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**4.6.2.30 11AX20MIMO\_52T\_161 ANT 2**



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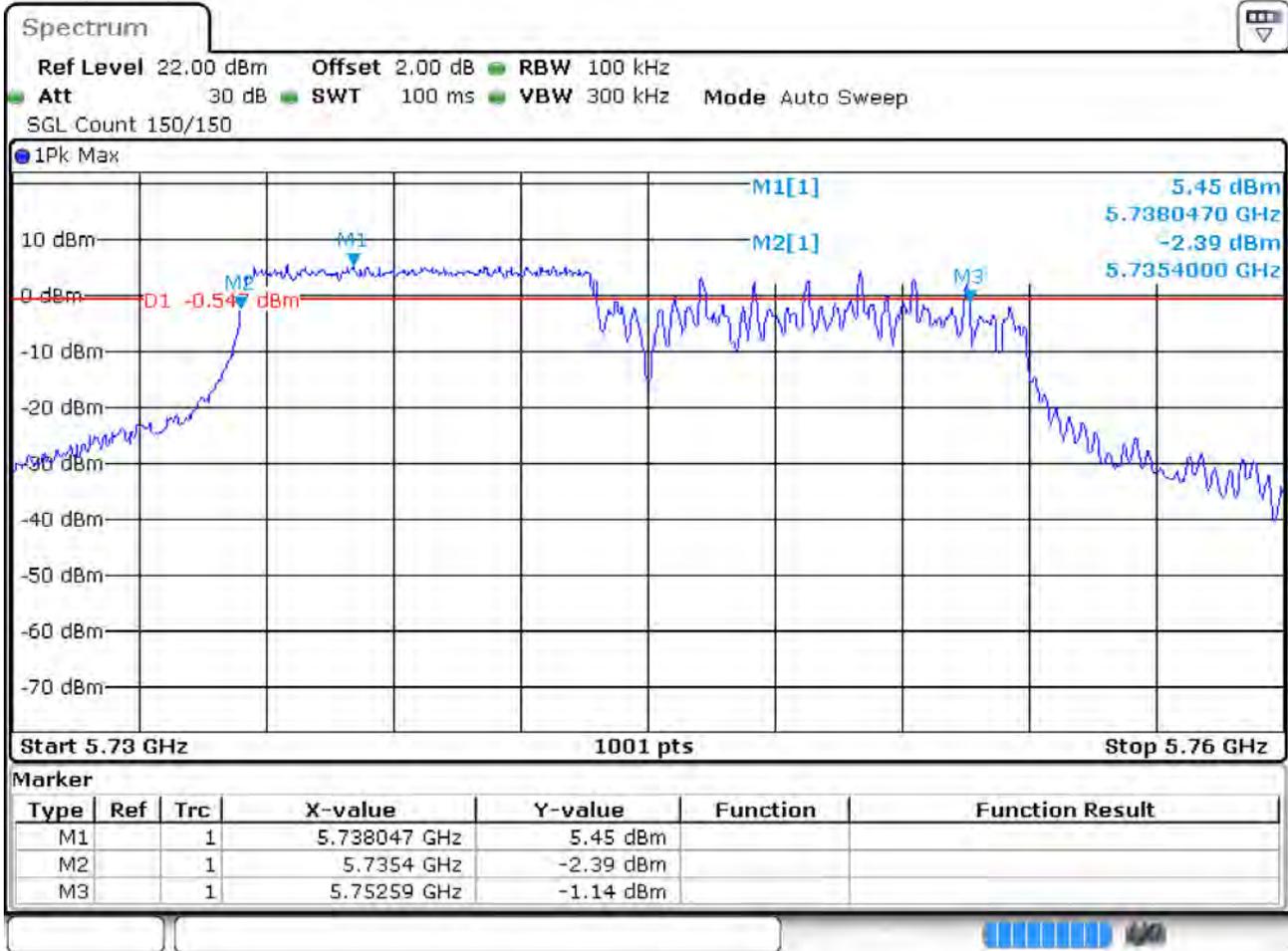


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**4.6.2.31 11AX20MIMO\_106T\_149 ANT 1**



Date: 11.APR.2020 09:24:56

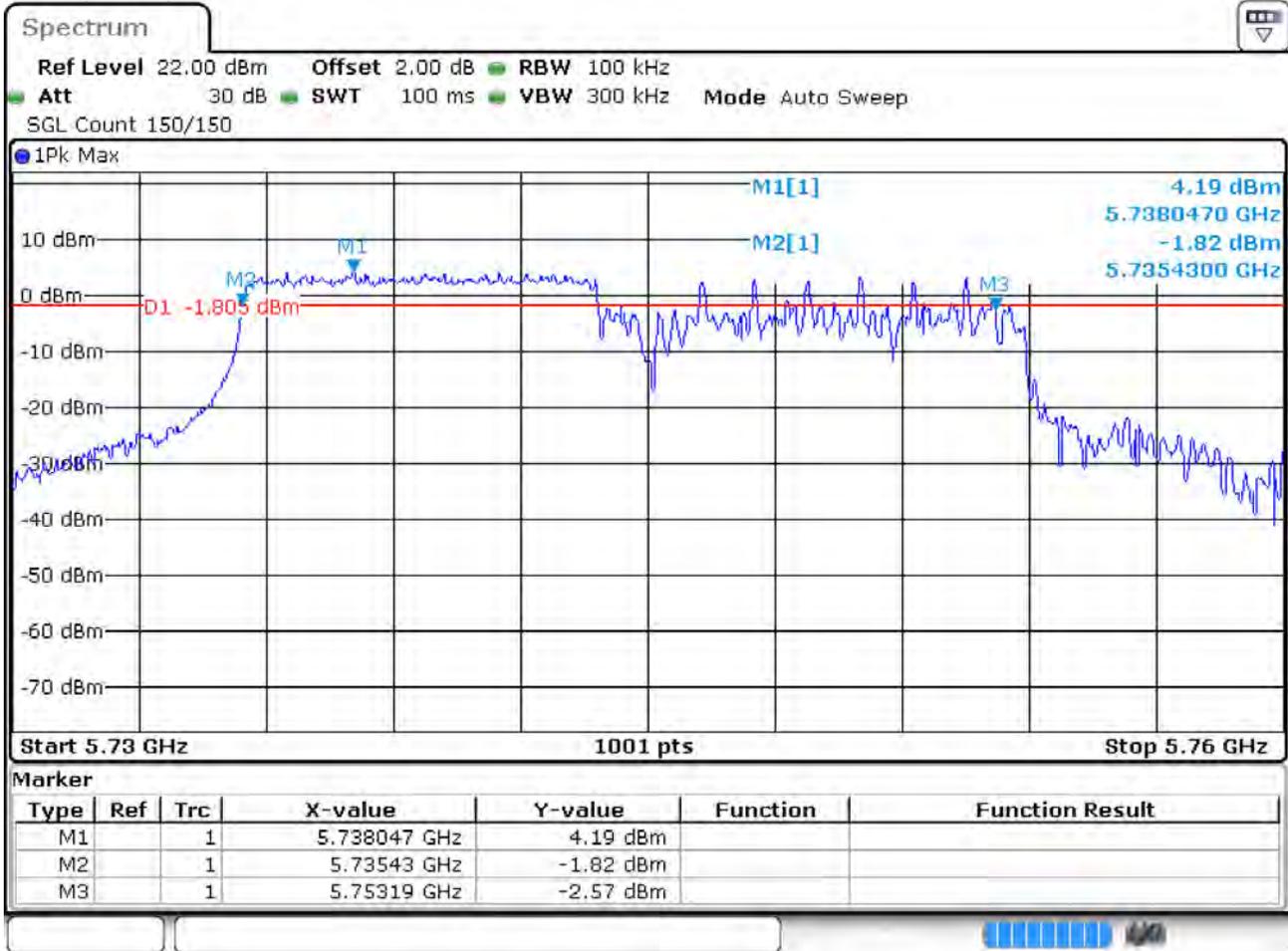


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**4.6.2.32 11AX20MIMO\_106T\_149 ANT 2**



Date: 11.APR.2020 10:36:22

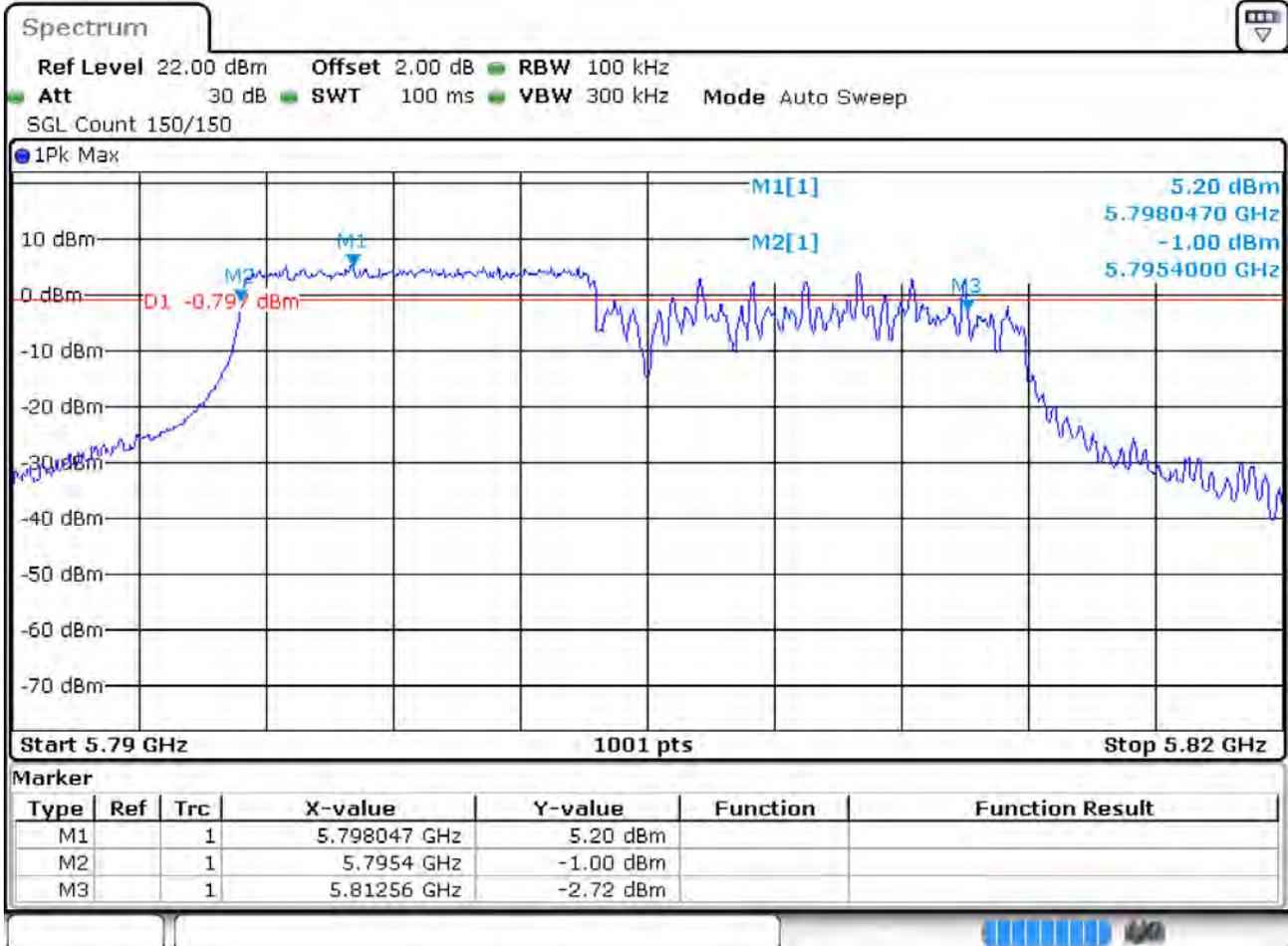


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**4.6.2.33 11AX20MIMO\_106T\_161 ANT 1**



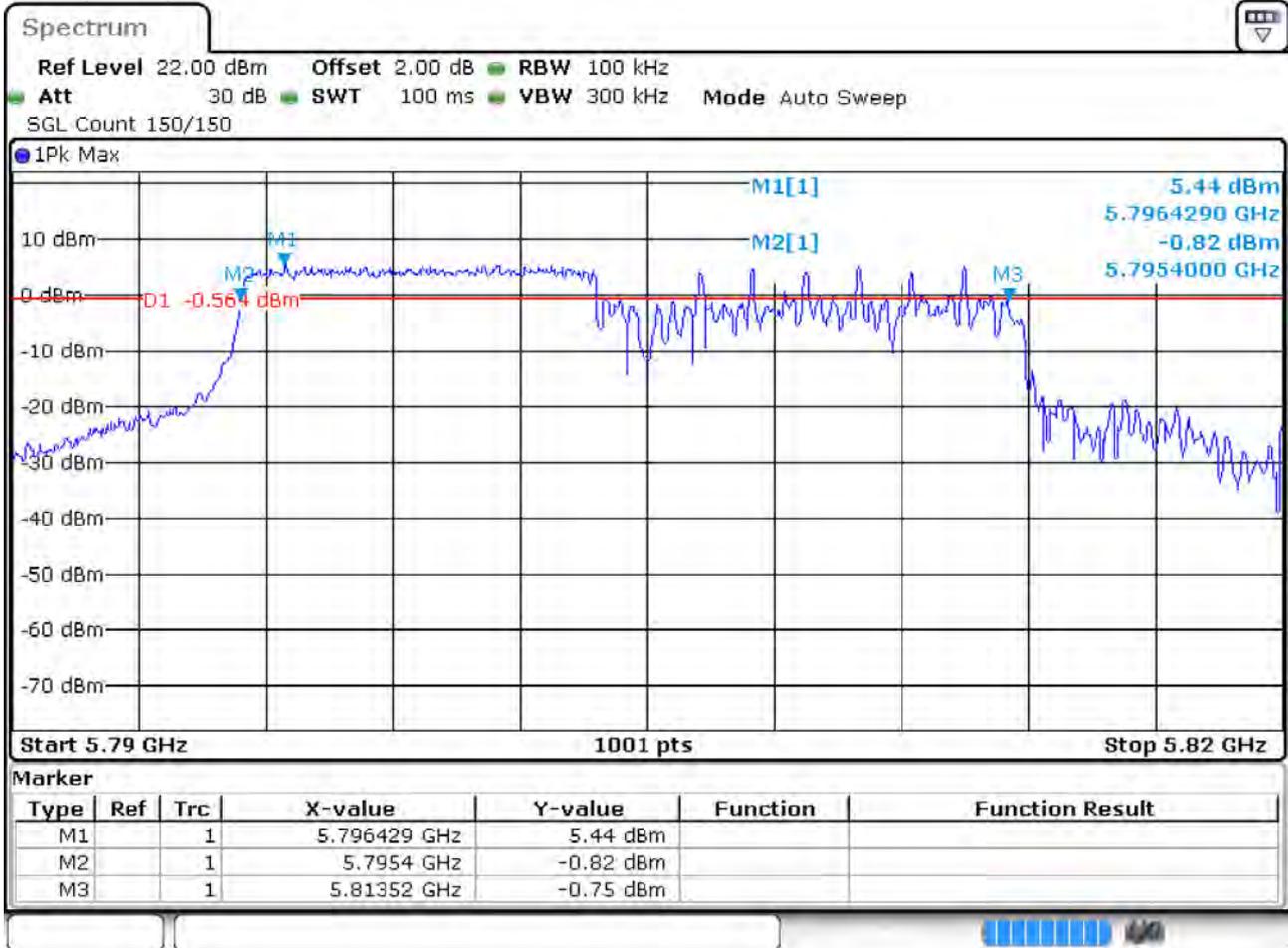
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**4.6.2.34 11AX20MIMO\_106T\_161 ANT 2**



Date: 26 APR 2020 08:58:21

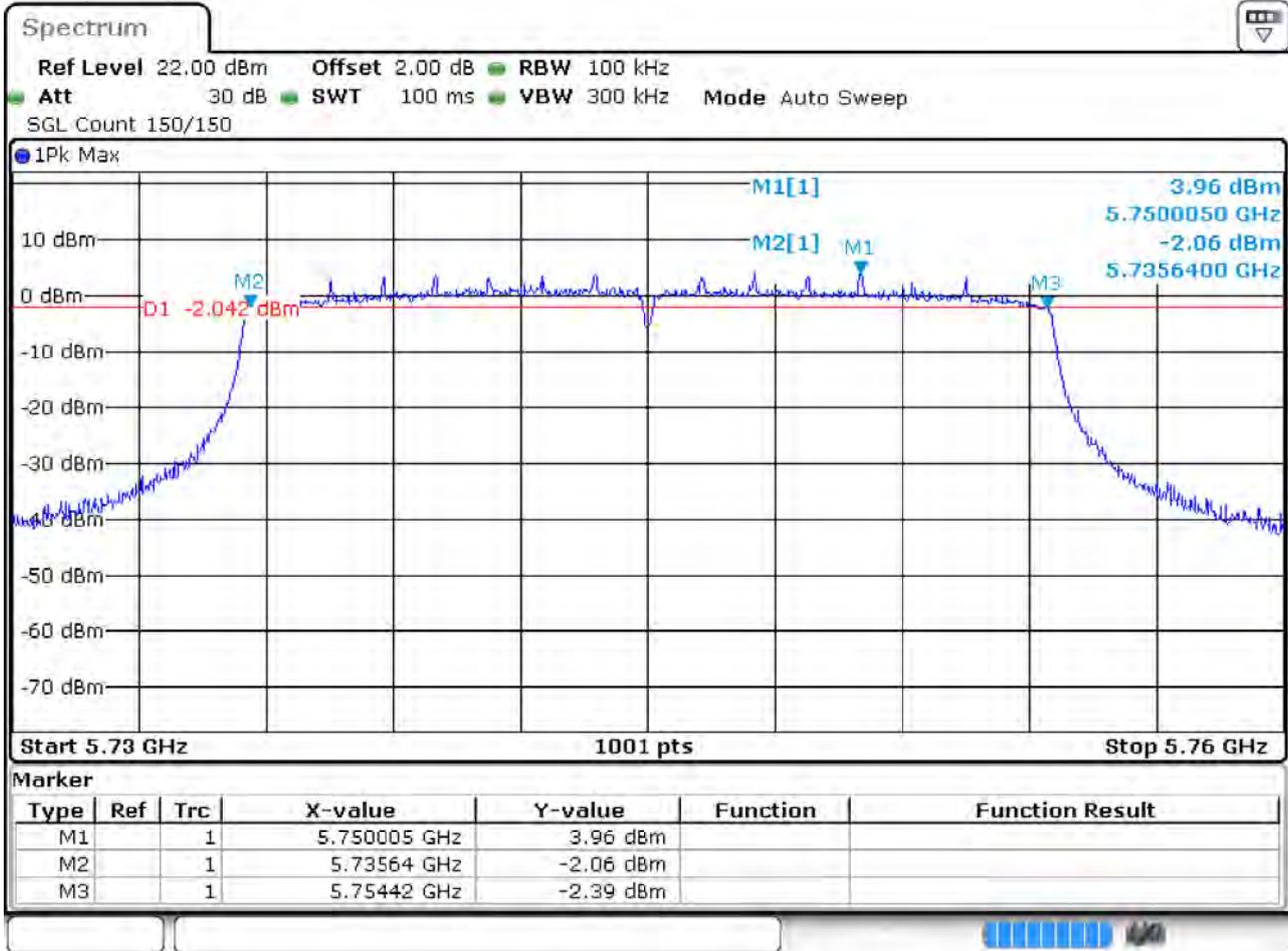


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**4.6.2.35 11AX20MIMO\_242T\_149 ANT 1**



Date: 14. APR.2020 05:02:58

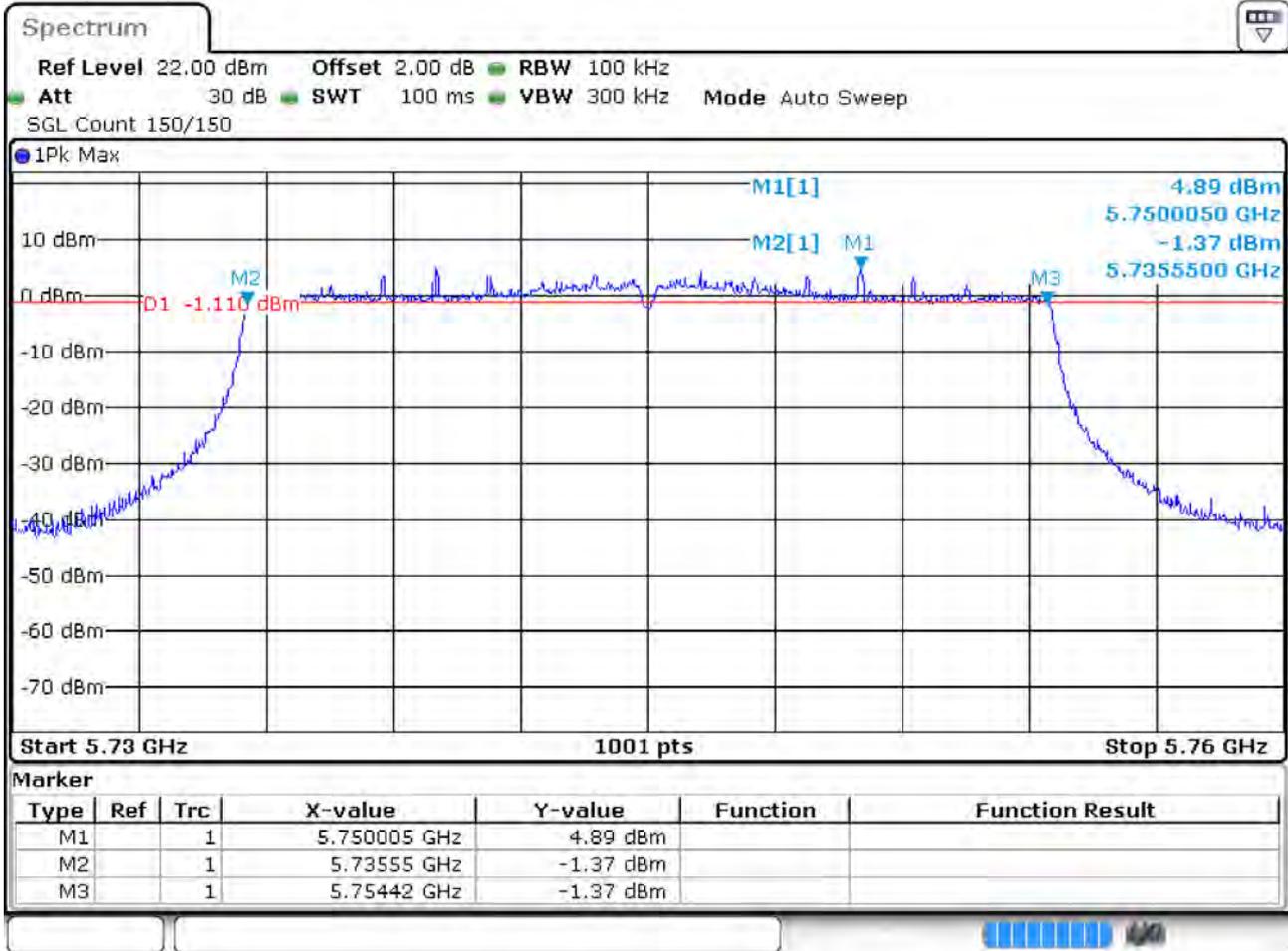


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**4.6.2.36 11AX20MIMO\_242T\_149 ANT 2**



Date: 14. APR.2020 05:14:12

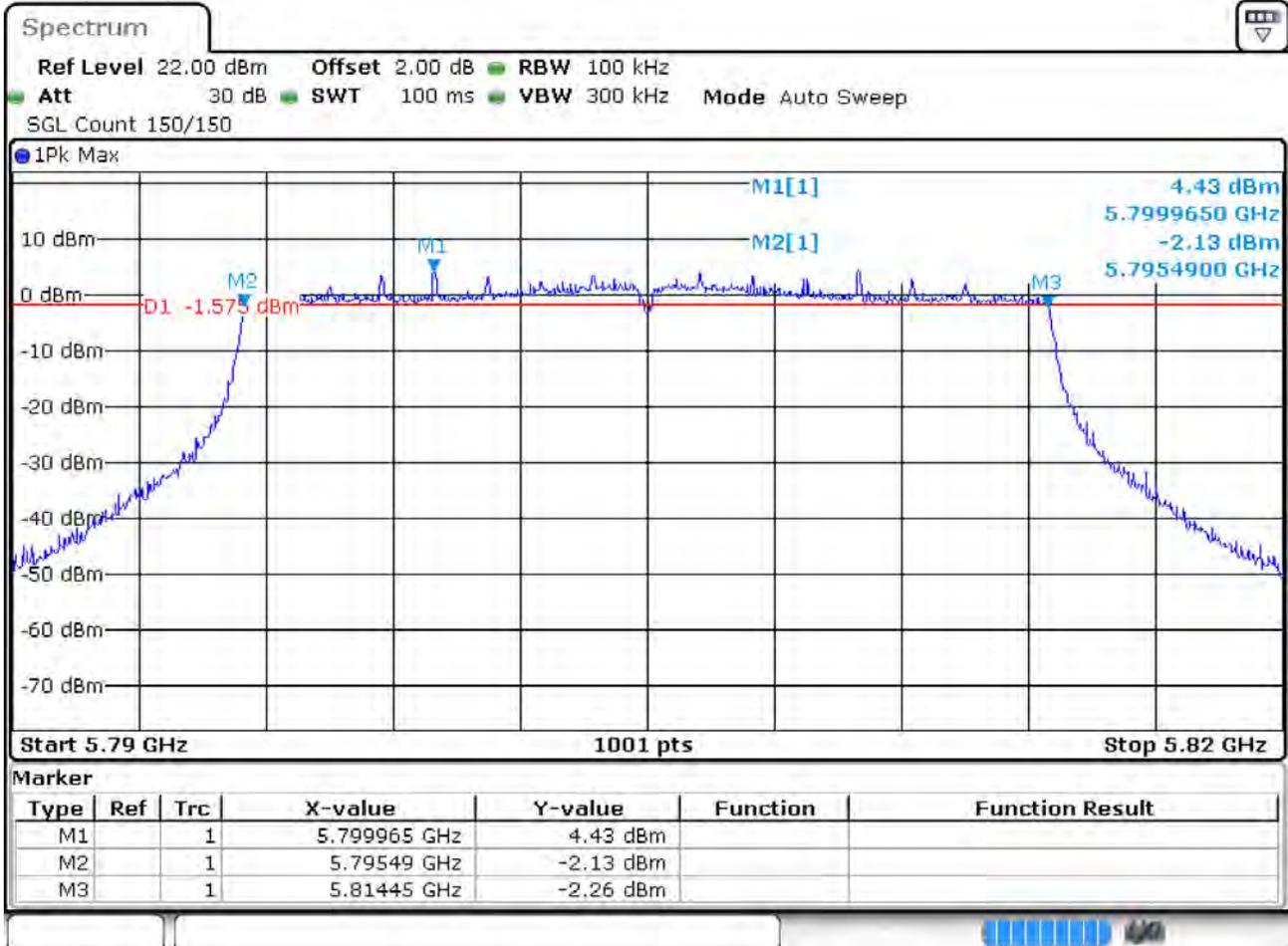


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**4.6.2.37 11AX20MIMO\_242T\_161 ANT 1**



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**4.6.2.38 11AX20MIMO\_242T\_161 ANT 2**



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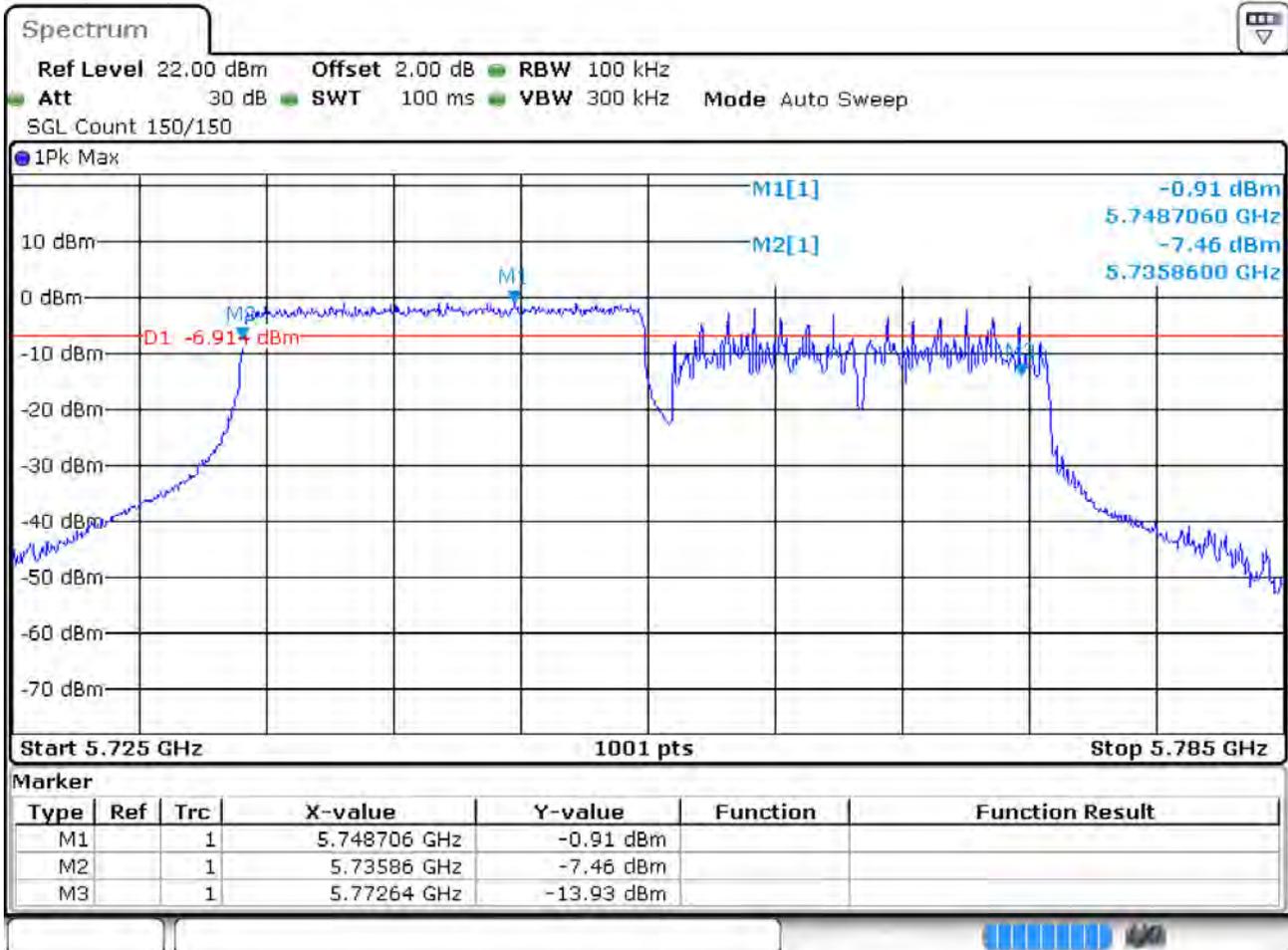


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**4.6.2.39 11AX40MIMO\_242T\_151 ANT 1**



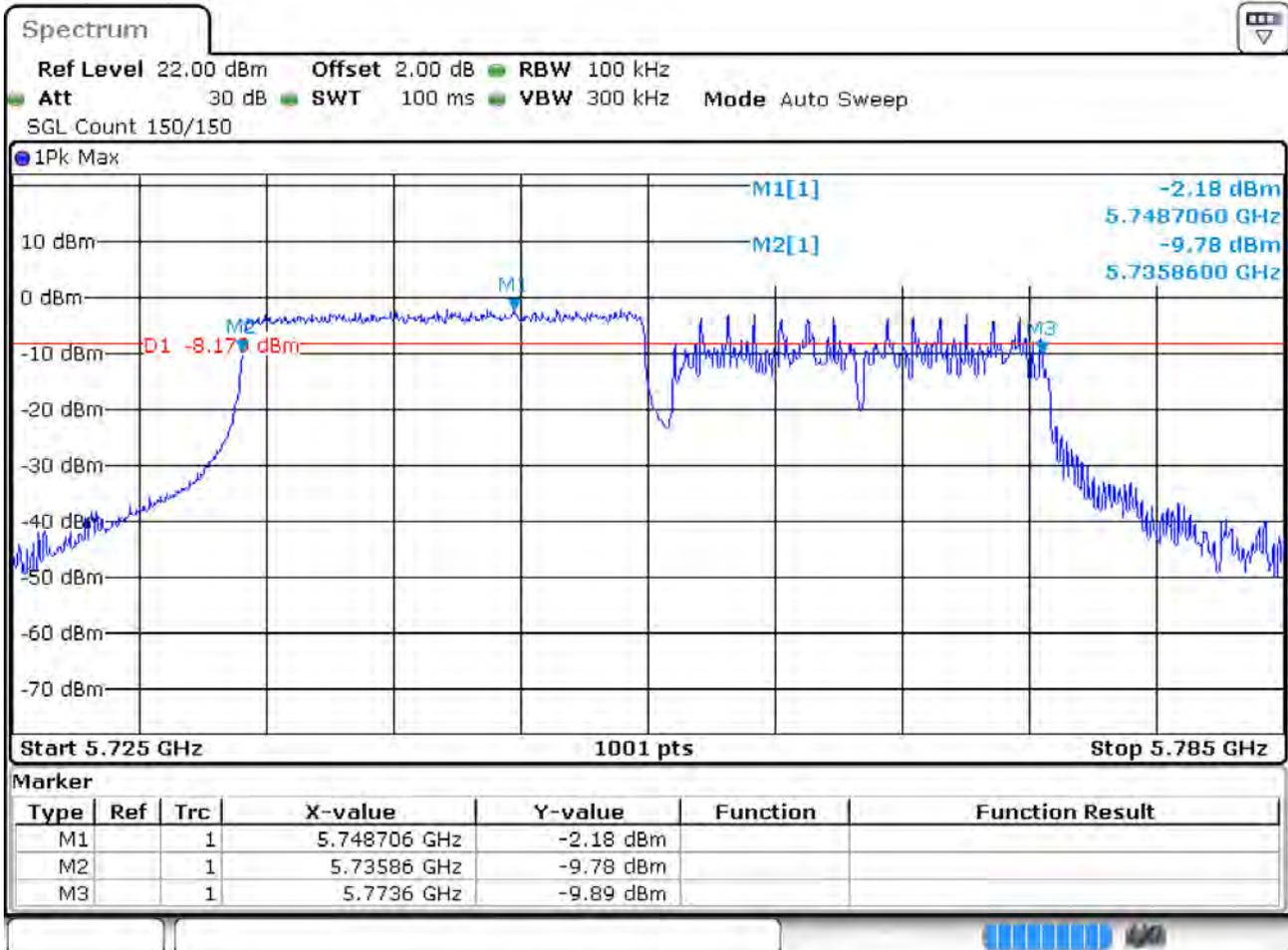
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**4.6.2.40 11AX40MIMO\_242T\_151 ANT 2**



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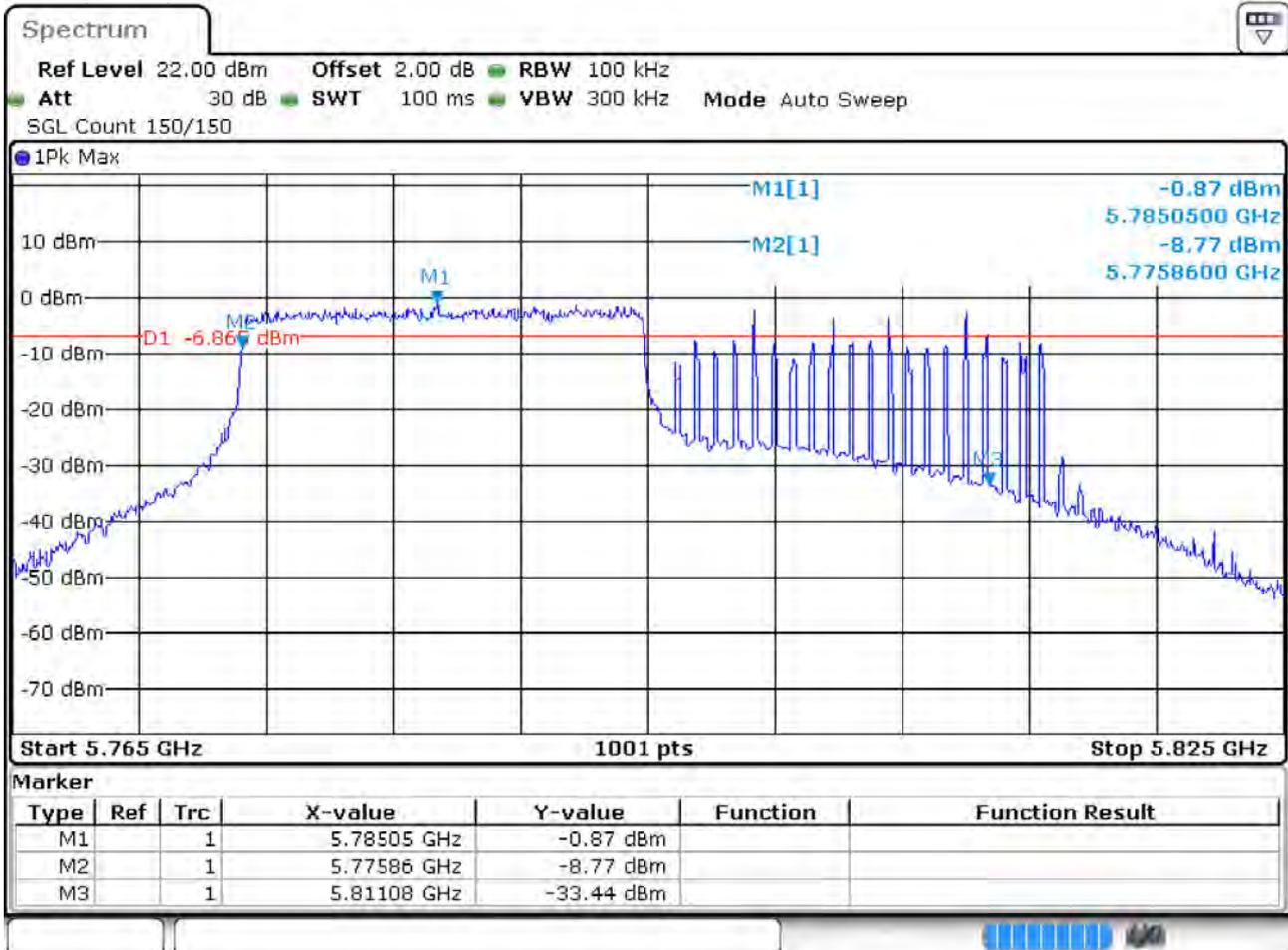


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**4.6.2.41 11AX40MIMO\_242T\_159 ANT 1**



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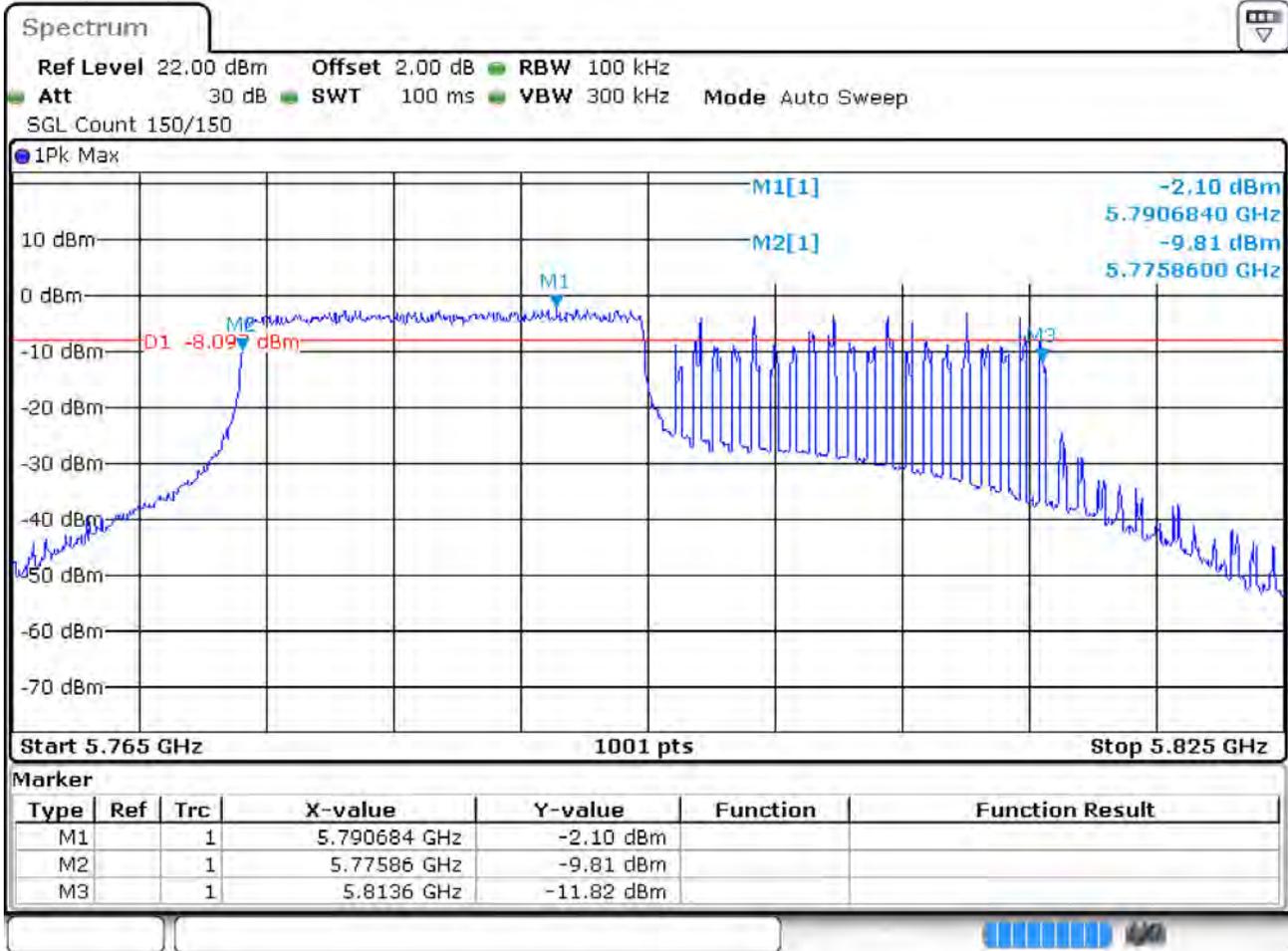


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**4.6.2.42 11AX40MIMO\_242T\_159 ANT 2**

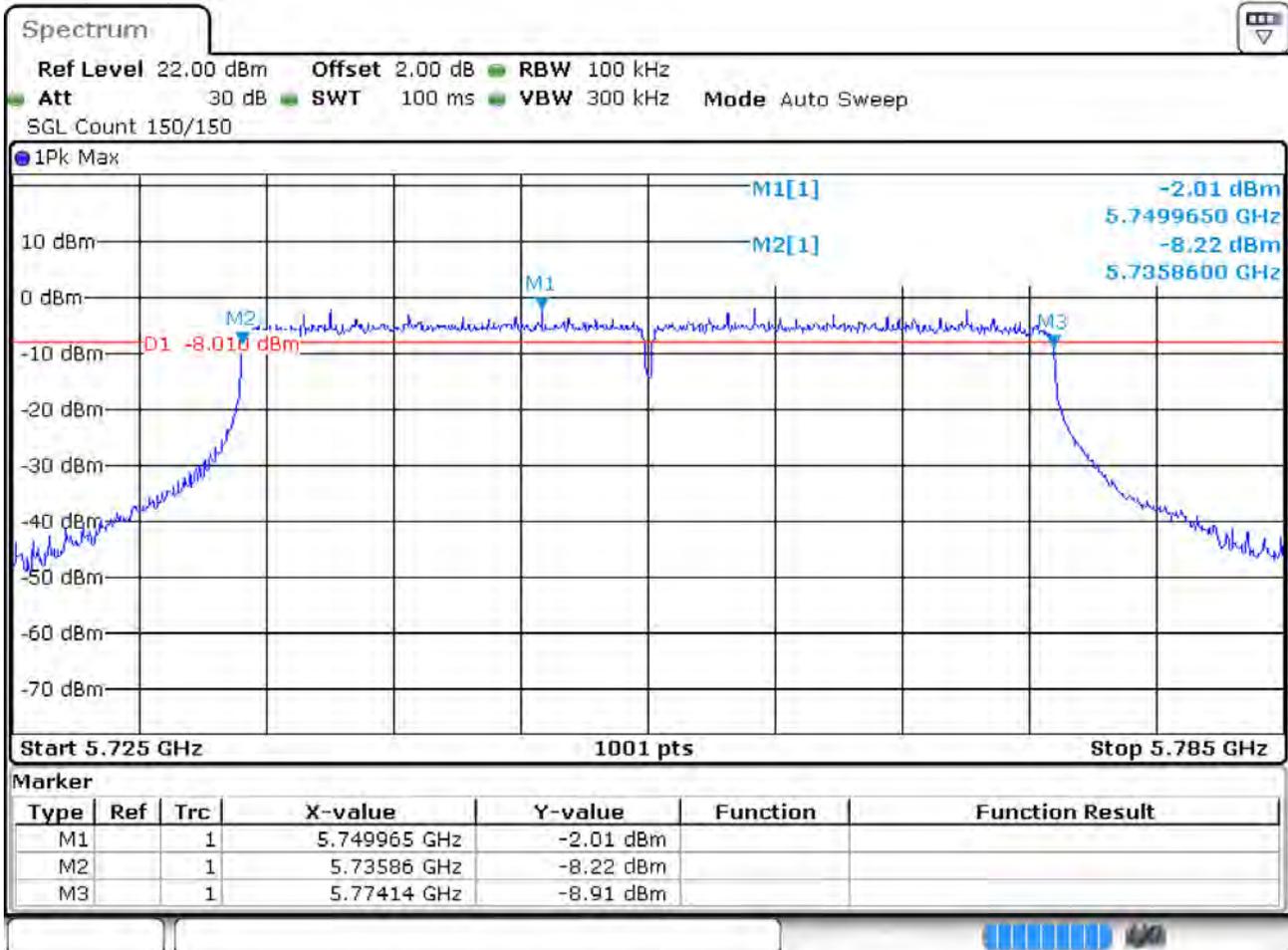


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**4.6.2.43 11AX40MIMO\_484T\_151 ANT 1**



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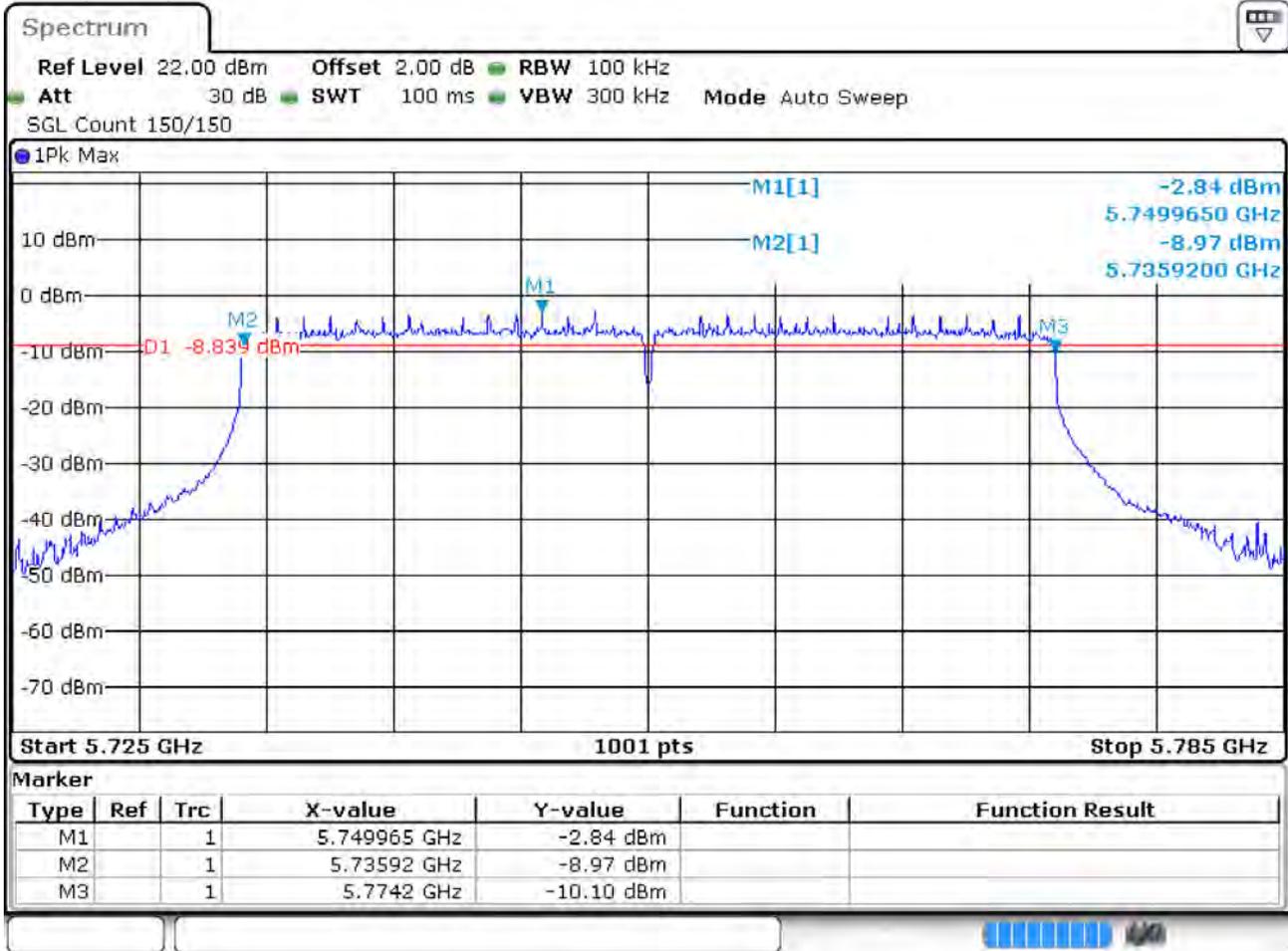


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**4.6.2.44 11AX40MIMO\_484T\_151 ANT 2**



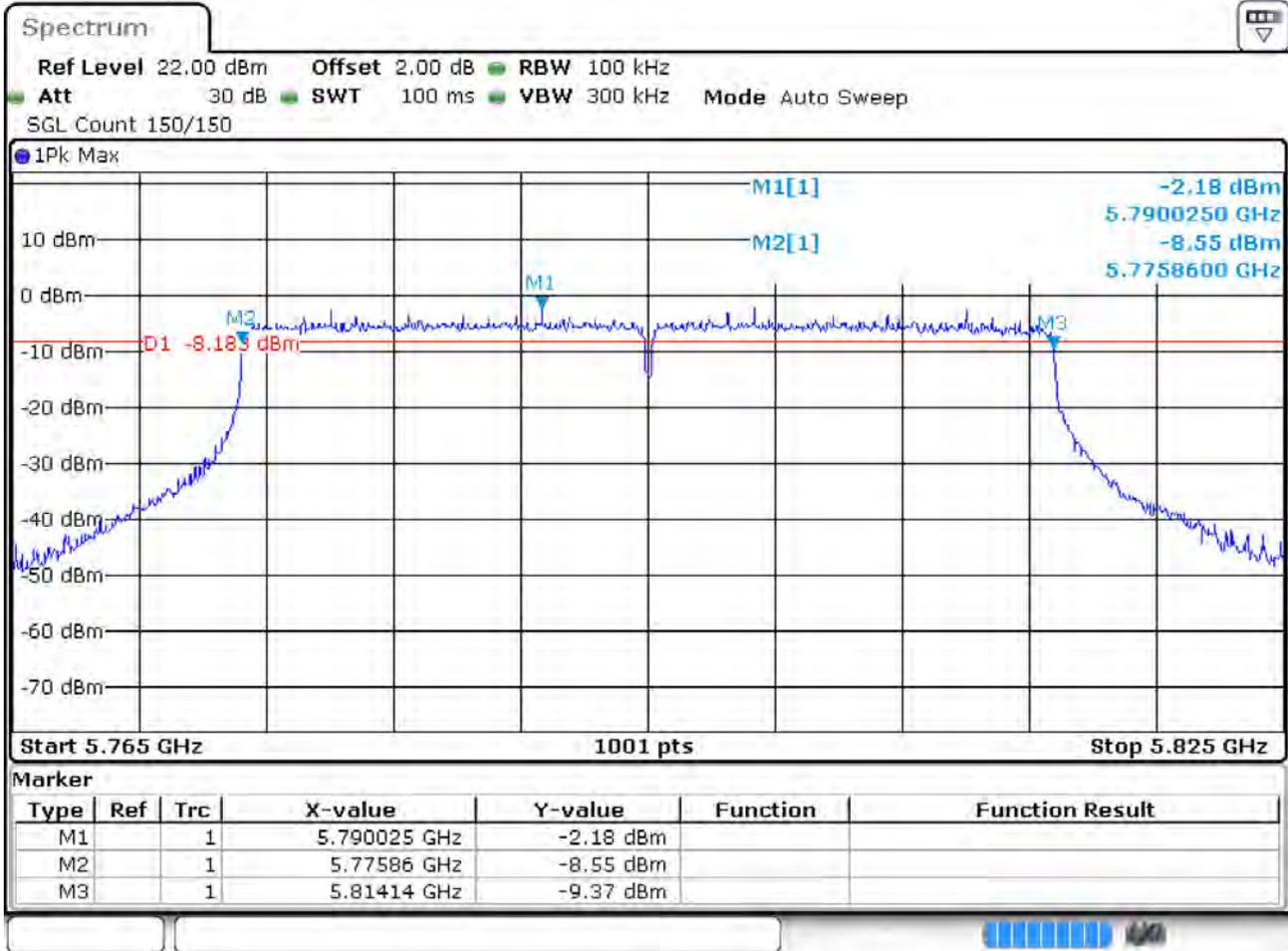
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**4.6.2.45 11AX40MIMO\_484T\_159 ANT 1**



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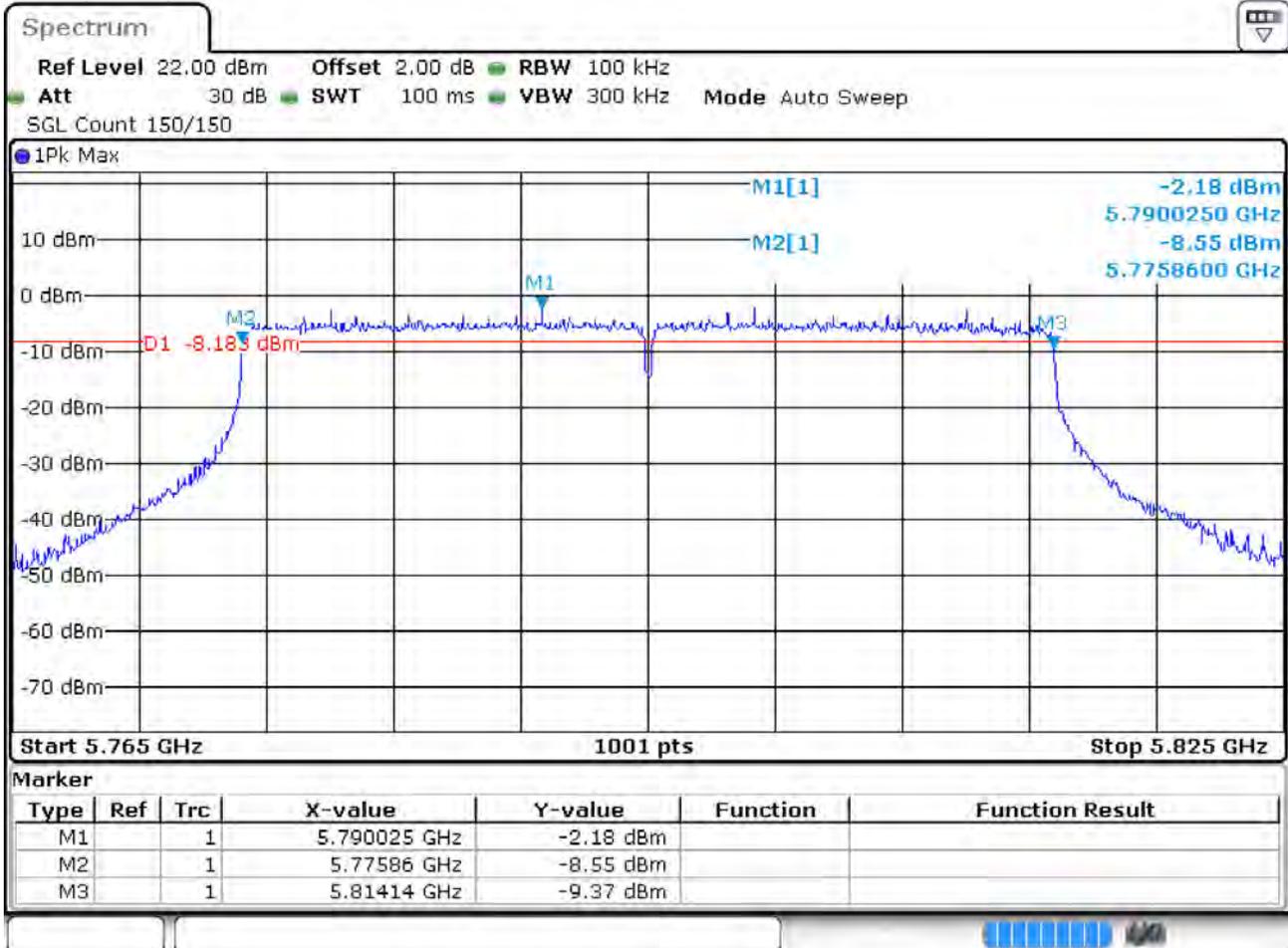


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**4.6.2.46 11AX40MIMO\_484T\_159 ANT 2**



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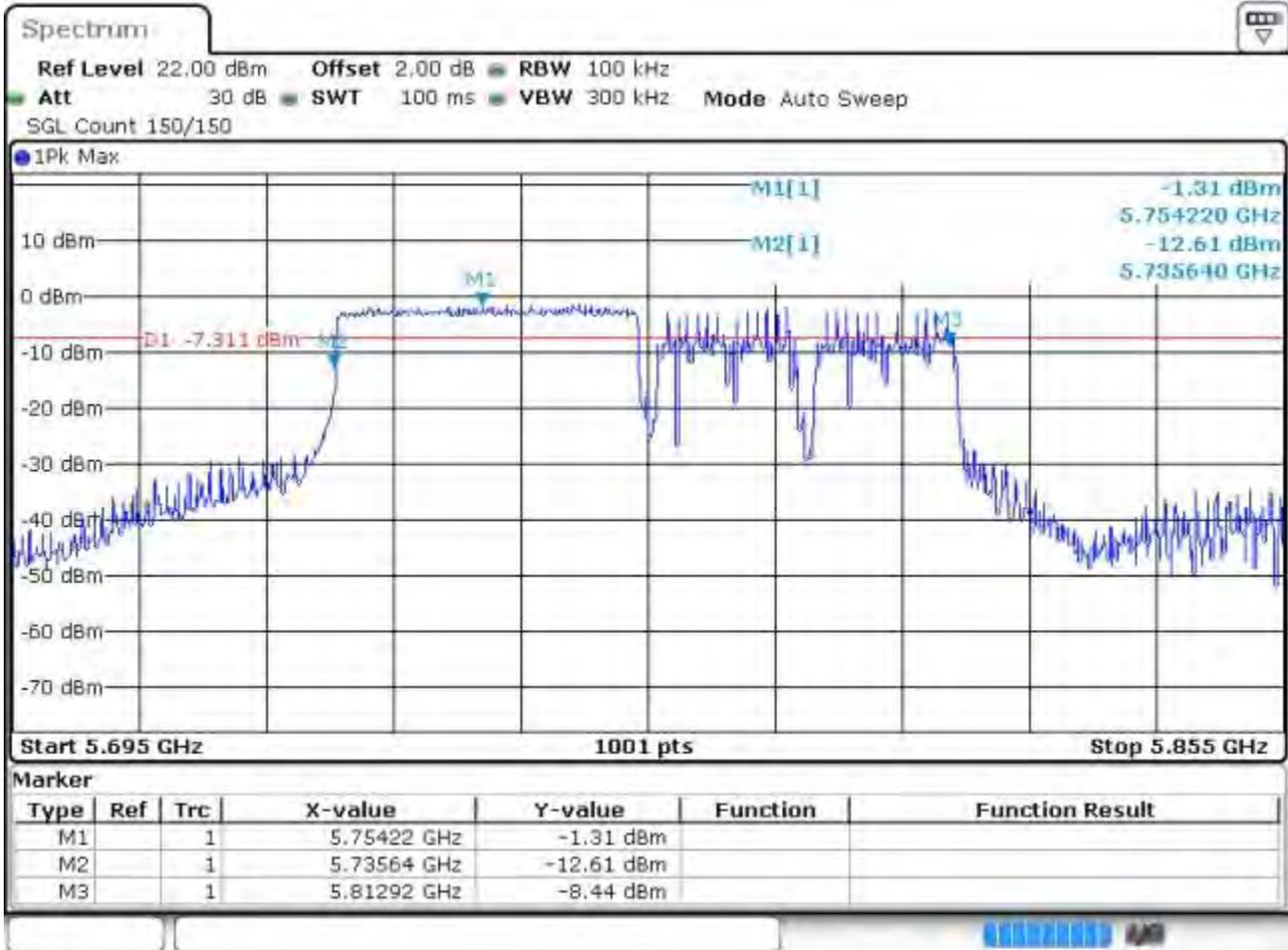


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**4.6.2.47 11AX80MIMO\_484T\_155 ANT 1**



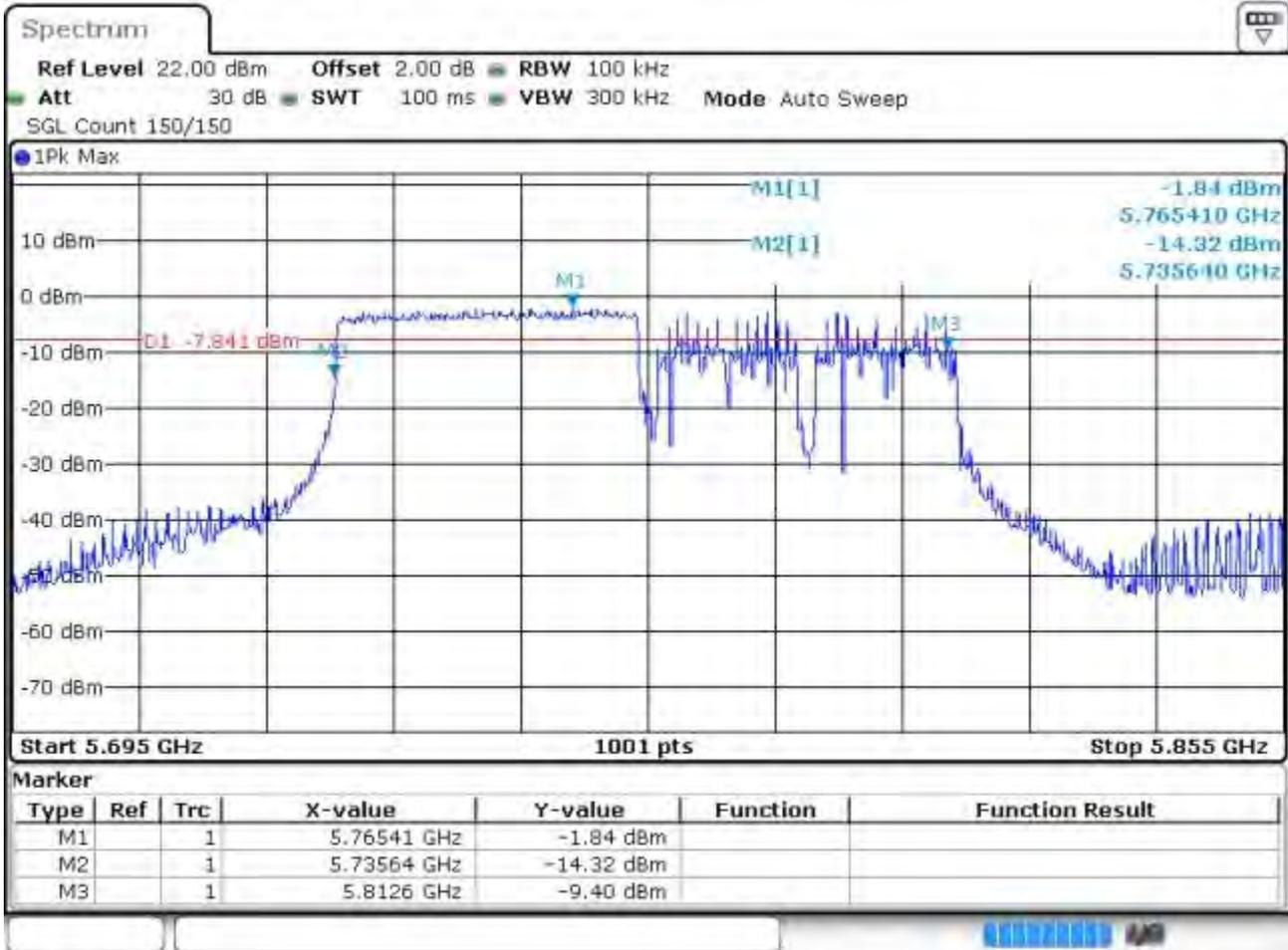
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**4.6.2.48 11AX80MIMO\_484T\_155 ANT 2**



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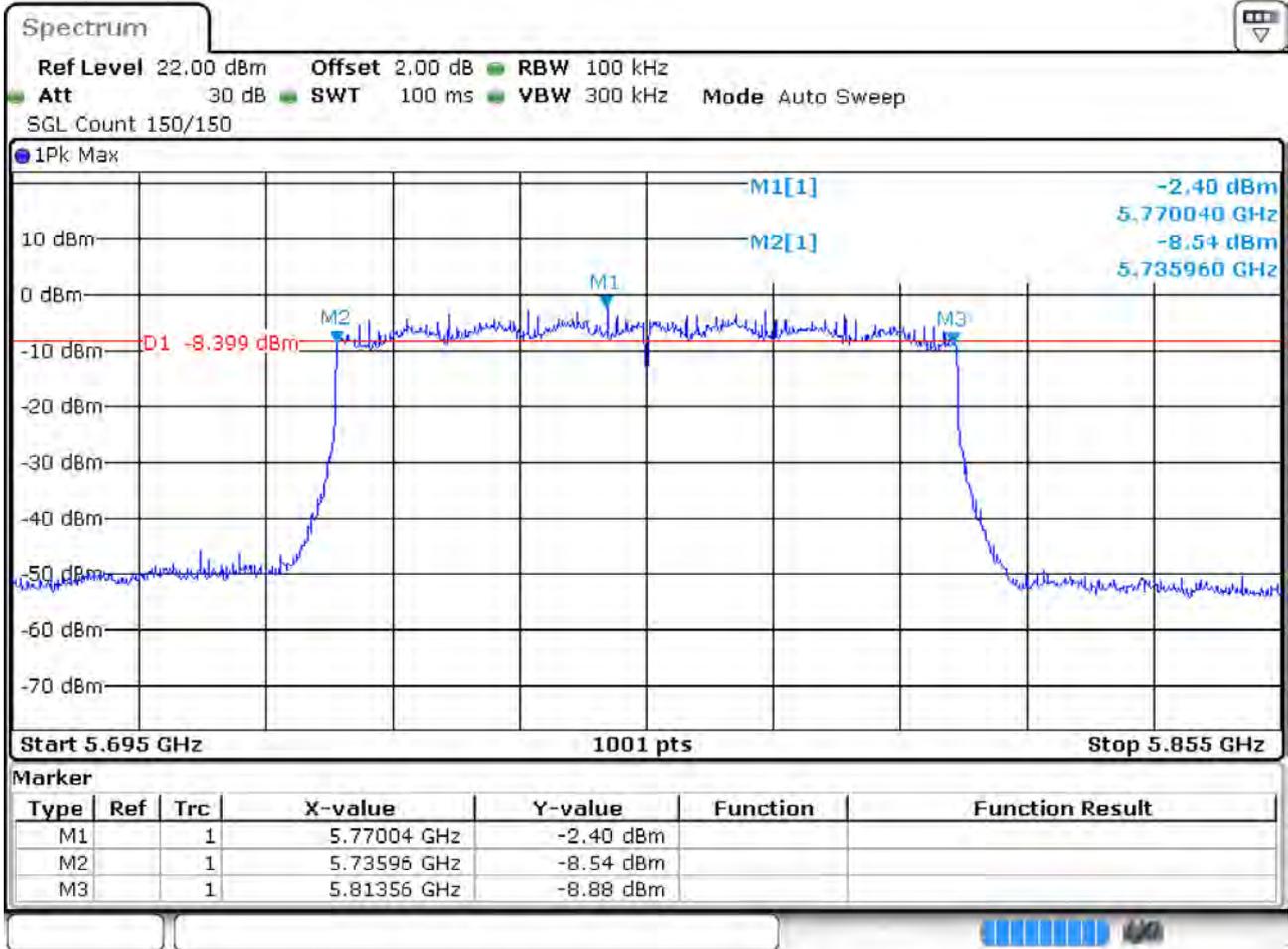


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**4.6.2.49 11AX80MIMO\_996T\_155 ANT 1**

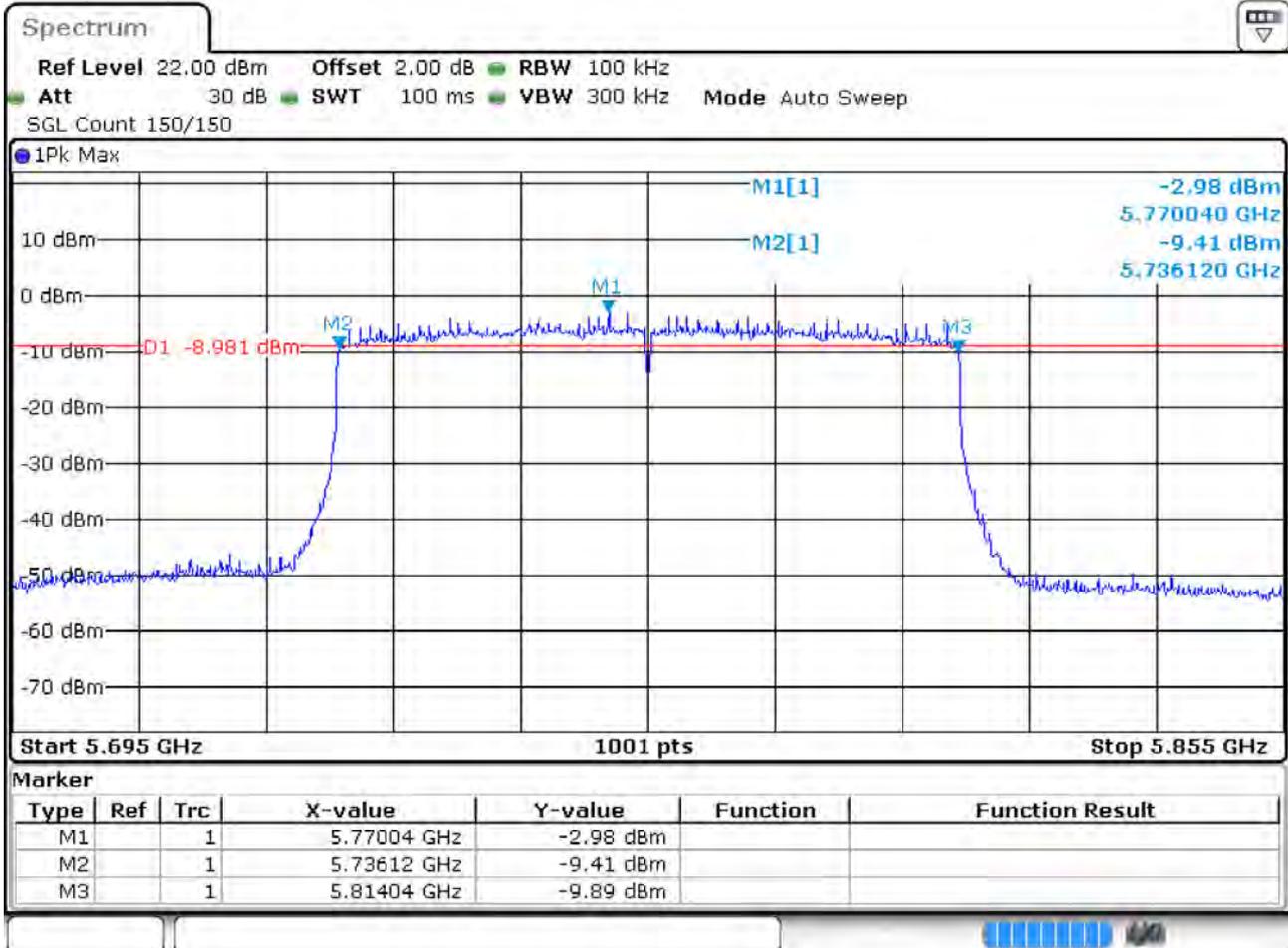


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**4.6.2.50 11AX80MIMO\_996T\_155 ANT 2**



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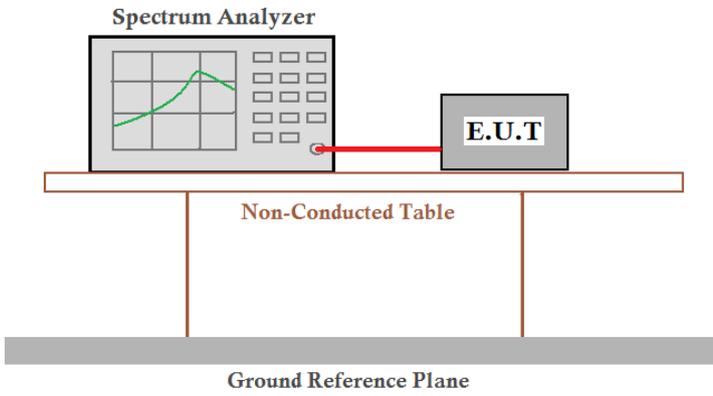


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### 4.7 99% Occupied Bandwidth

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:	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). MCS0 of rate is the worst case of 802.11ax(HT20); MCS0 of rate is the worst case of 802.11ax(HT40); MCS0 of rate is the worst case of 802.11ax(HT80); Only the worst case is recorded in the report.
Test Results:	Pass



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**4.7.1 Test Results For 99% Occupied Bandwidth**

Test Mode	Test Channel	Frequency [MHz]	99% Occupied Bandwidth		Verdict
			ANT 1	ANT 2	
11A20CDD	36	5180	17.53	16.42	PASS
	48	5240	17.53	16.39	PASS
	52	5260	16.39	16.39	PASS
	64	5320	16.39	16.39	PASS
	100	5500	16.36	16.36	PASS
	140	5700	16.33	16.39	PASS
	144	5720	16.30	16.33	PASS
	149	5745	16.33	16.39	PASS
	161	5805	17.53	17.53	PASS
11N20MIMO	36	5180	17.56	17.53	PASS
	48	5240	17.53	17.53	PASS
	52	5260	17.56	17.53	PASS
	64	5320	17.56	17.53	PASS
	100	5500	17.56	17.53	PASS
	140	5700	17.56	17.56	PASS
	144	5720	17.56	17.56	PASS
	149	5745	17.56	17.56	PASS
	161	5805	17.50	17.53	PASS
11N40MIMO	38	5190	35.96	35.96	PASS
	46	5230	36.02	35.96	PASS
	54	5270	36.02	35.90	PASS
	62	5310	36.02	35.96	PASS
	102	5510	36.02	35.90	PASS
	134	5670	35.96	35.90	PASS
	142	5710	35.96	35.90	PASS
	151	5755	36.02	35.96	PASS
	159	5795	35.96	35.96	PASS
11AC20MIMO	36	5180	18.04	17.98	PASS
	48	5240	18.04	17.92	PASS
	52	5260	18.04	17.92	PASS
	64	5320	18.04	17.95	PASS
	100	5500	17.89	17.89	PASS
	140	5700	17.86	17.80	PASS
	144	5720	17.86	17.89	PASS
	149	5745	17.89	17.89	PASS
	161	5805	17.53	17.53	PASS
11AC40MIMO	38	5190	36.62	36.68	PASS
	46	5230	36.62	36.68	PASS
	54	5270	36.62	36.62	PASS
	62	5310	36.56	36.62	PASS
	102	5510	36.56	36.62	PASS



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	134	5670	36.56	36.62	PASS
	142	5710	36.56	36.62	PASS
	151	5755	36.50	36.56	PASS
	159	5795	36.56	36.56	PASS
11AC80MIMO	42	5210	76.24	76.48	PASS
	58	5290	76.24	76.48	PASS
	106	5530	76.24	76.24	PASS
	155	5775	76.24	76.60	PASS
11AX20MIMO_26T	36	5180	17.26	17.17	PASS
	48	5240	17.20	17.17	PASS
	52	5260	17.14	17.20	PASS
	64	5320	17.17	17.20	PASS
	100	5500	17.14	17.08	PASS
	140	5700	17.11	17.11	PASS
	149	5745	17.14	17.11	PASS
	161	5805	17.11	17.17	PASS
11AX20MIMO_52T	36	5180	17.29	17.26	PASS
	48	5240	17.26	17.26	PASS
	52	5260	17.26	17.26	PASS
	64	5320	17.23	17.23	PASS
	100	5500	17.20	17.20	PASS
	140	5700	17.20	17.20	PASS
	149	5745	17.20	17.20	PASS
	161	5805	17.02	17.23	PASS
11AX20MIMO_106T	36	5180	18.40	18.40	PASS
	48	5240	18.40	18.34	PASS
	52	5260	18.37	18.34	PASS
	64	5320	18.40	18.37	PASS
	100	5500	18.31	18.28	PASS
	140	5700	18.28	18.31	PASS
	149	5745	18.25	18.31	PASS
	161	5805	18.25	18.34	PASS
11AX20MIMO_242T	36	5180	18.88	18.88	PASS
	48	5240	18.88	18.88	PASS
	52	5260	18.88	18.88	PASS
	64	5320	18.88	18.88	PASS
	100	5500	18.88	18.94	PASS
	140	5700	18.88	18.97	PASS
	149	5745	18.88	18.97	PASS
	161	5805	18.94	18.91	PASS
11AX40MIMO_484T	38	5190	38.00	38.06	PASS
	46	5230	38.00	38.00	PASS
	54	5270	38.00	38.00	PASS
	62	5310	38.00	38.00	PASS
	102	5510	38.00	38.00	PASS



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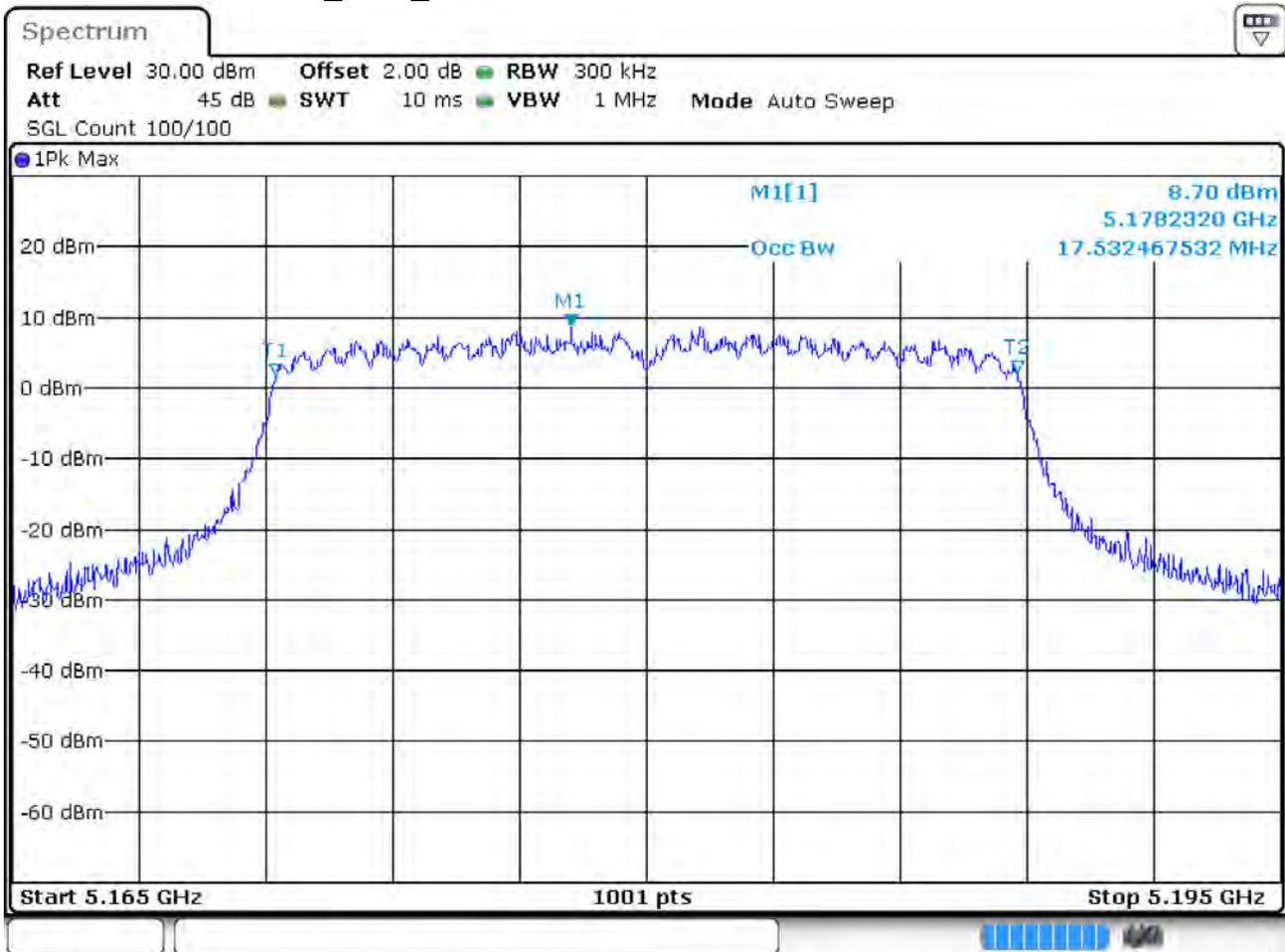
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	134	5670	38.00	38.00	PASS
	151	5755	38.00	38.00	PASS
	159	5795	38.00	38.00	PASS
11AX80MIMO_484T	42	5210	77.20	77.08	PASS
	58	5290	77.08	76.96	PASS
	106	5530	76.96	76.84	PASS
	155	5775	76.96	76.96	PASS
11AX80MIMO_996T	42	5210	76.96	76.96	PASS
	58	5290	77.08	77.08	PASS
	106	5530	77.20	77.08	PASS
	155	5775	77.20	77.08	PASS

**4.7.2 Test Plots For 99% Occupied Bandwidth**

**4.7.2.1 11A20\_CDD\_36 ANT 1**

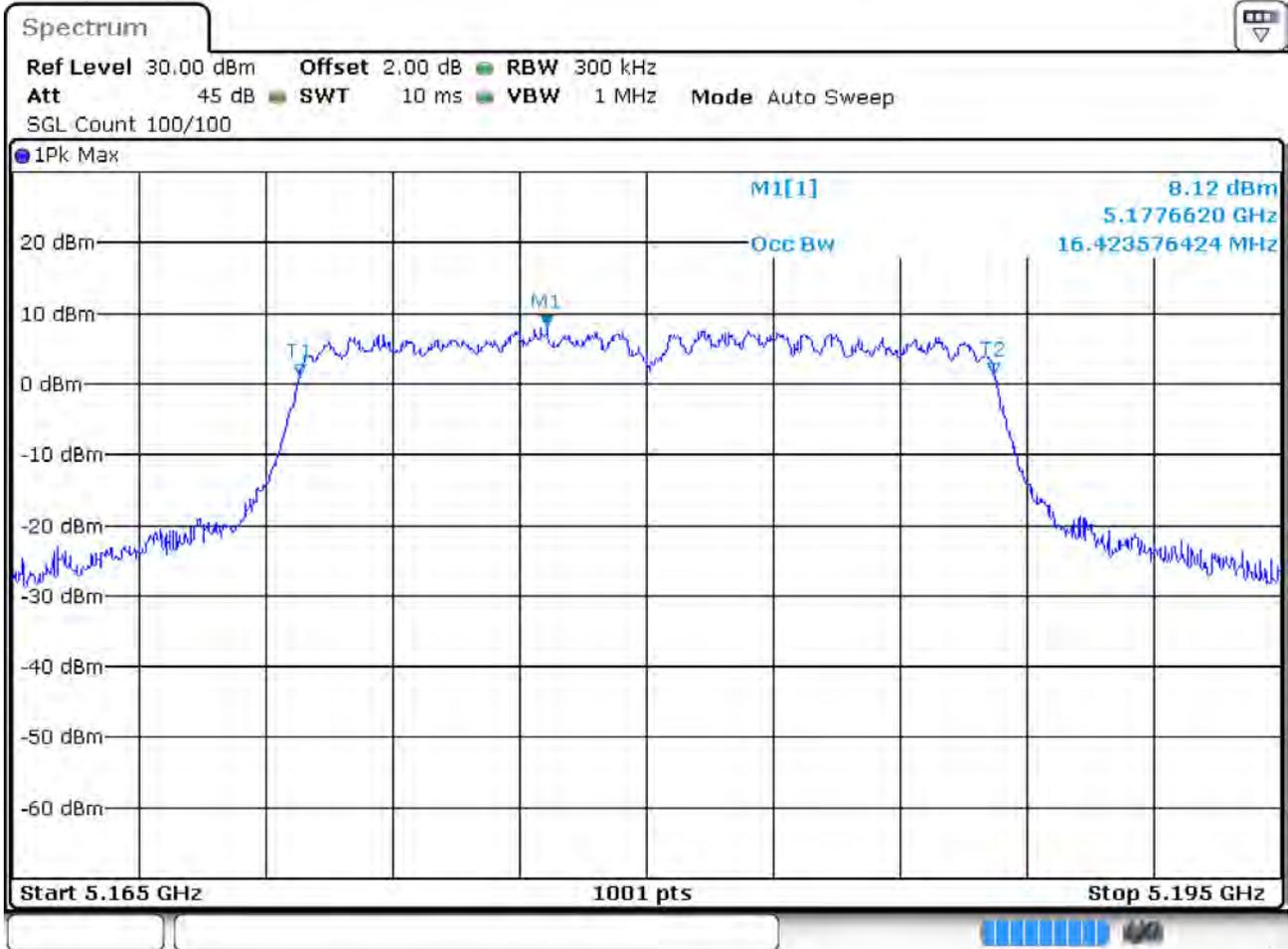


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**4.7.2.2 11A20\_CDD\_36 ANT 2**



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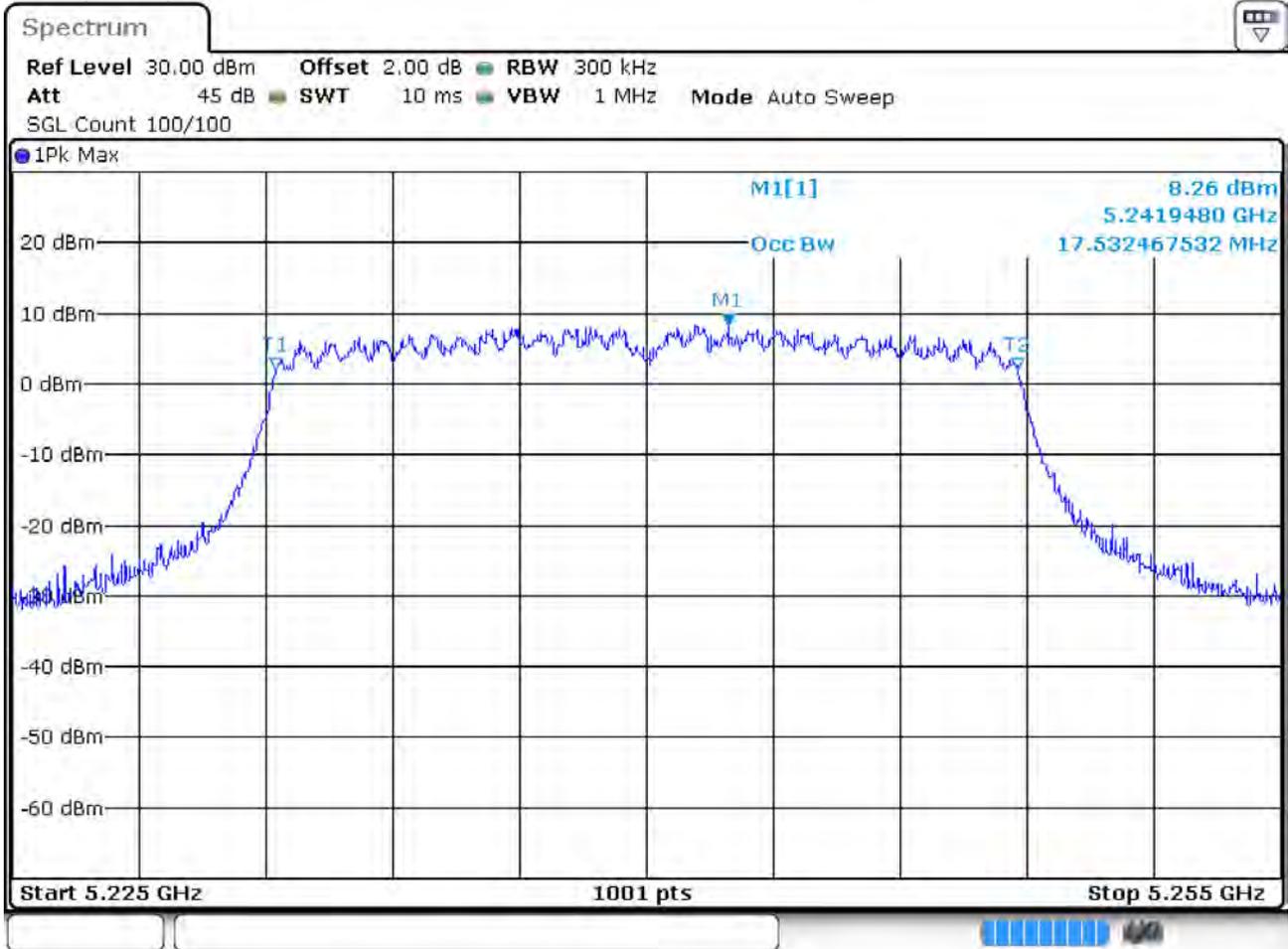


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**4.7.2.3 11A20\_CDD\_48 ANT 1**

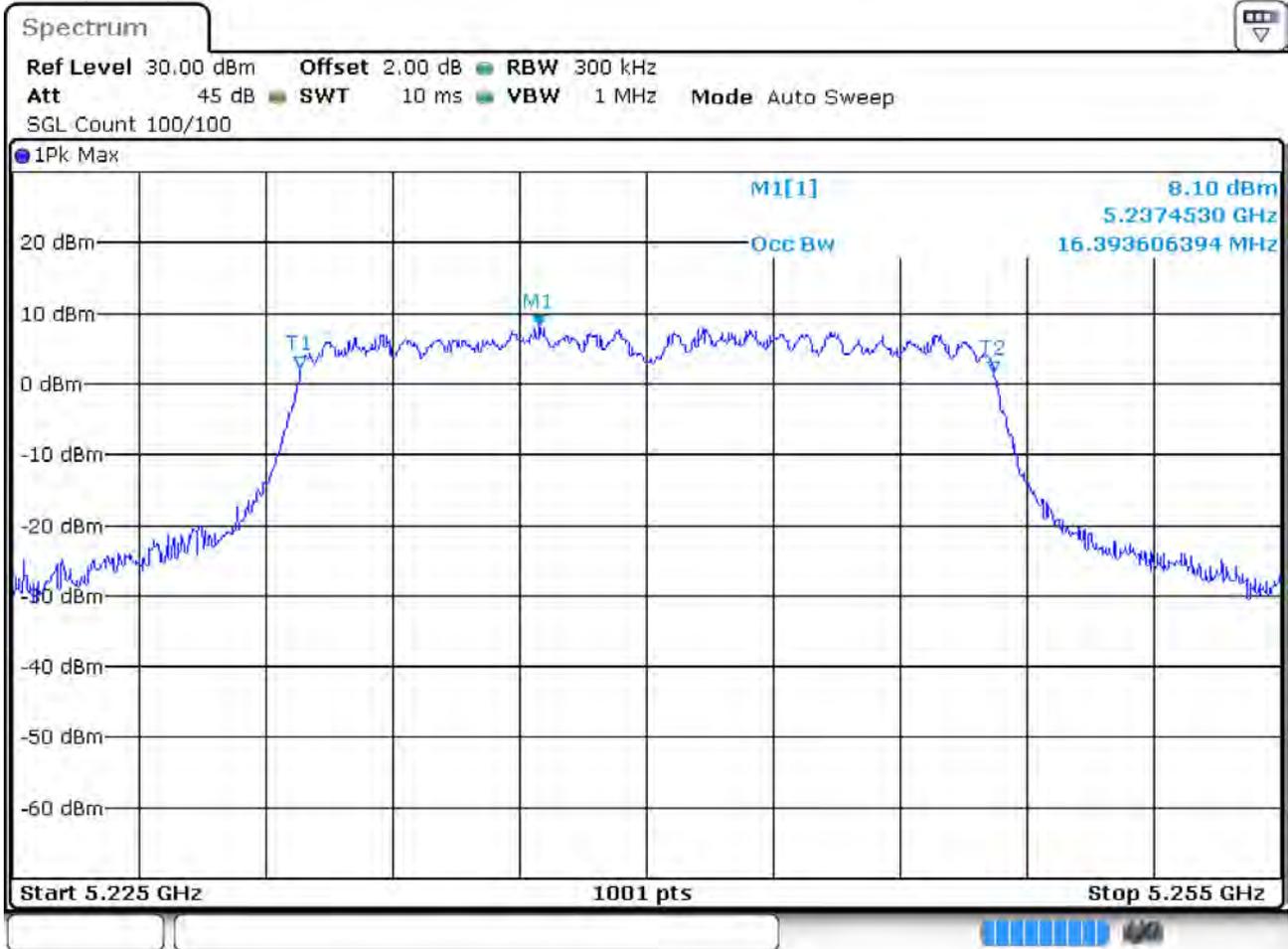


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**4.7.2.4 11A20\_CDD\_48 ANT 2**



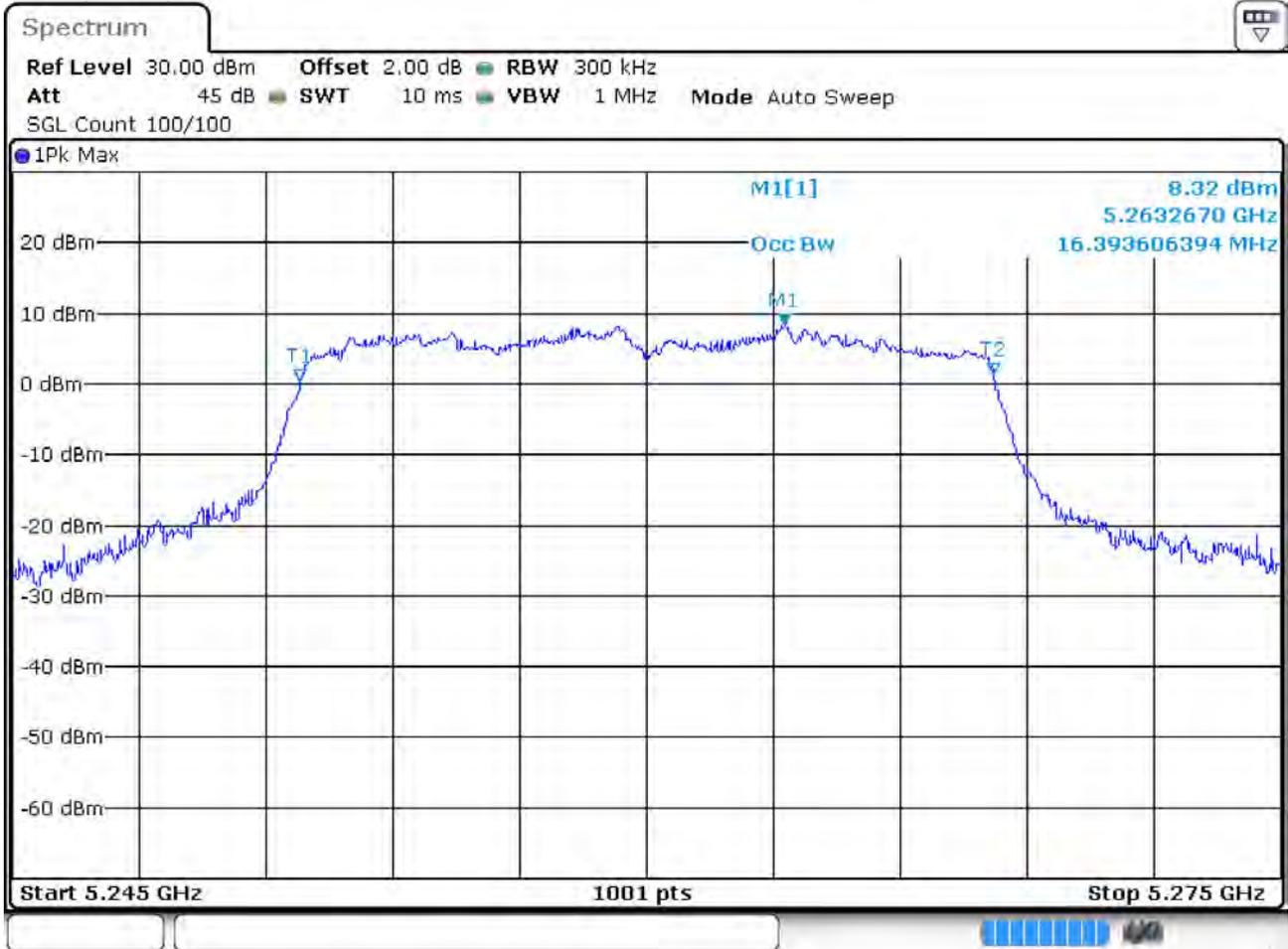
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**4.7.2.5 11A20\_CDD\_52 ANT 1**

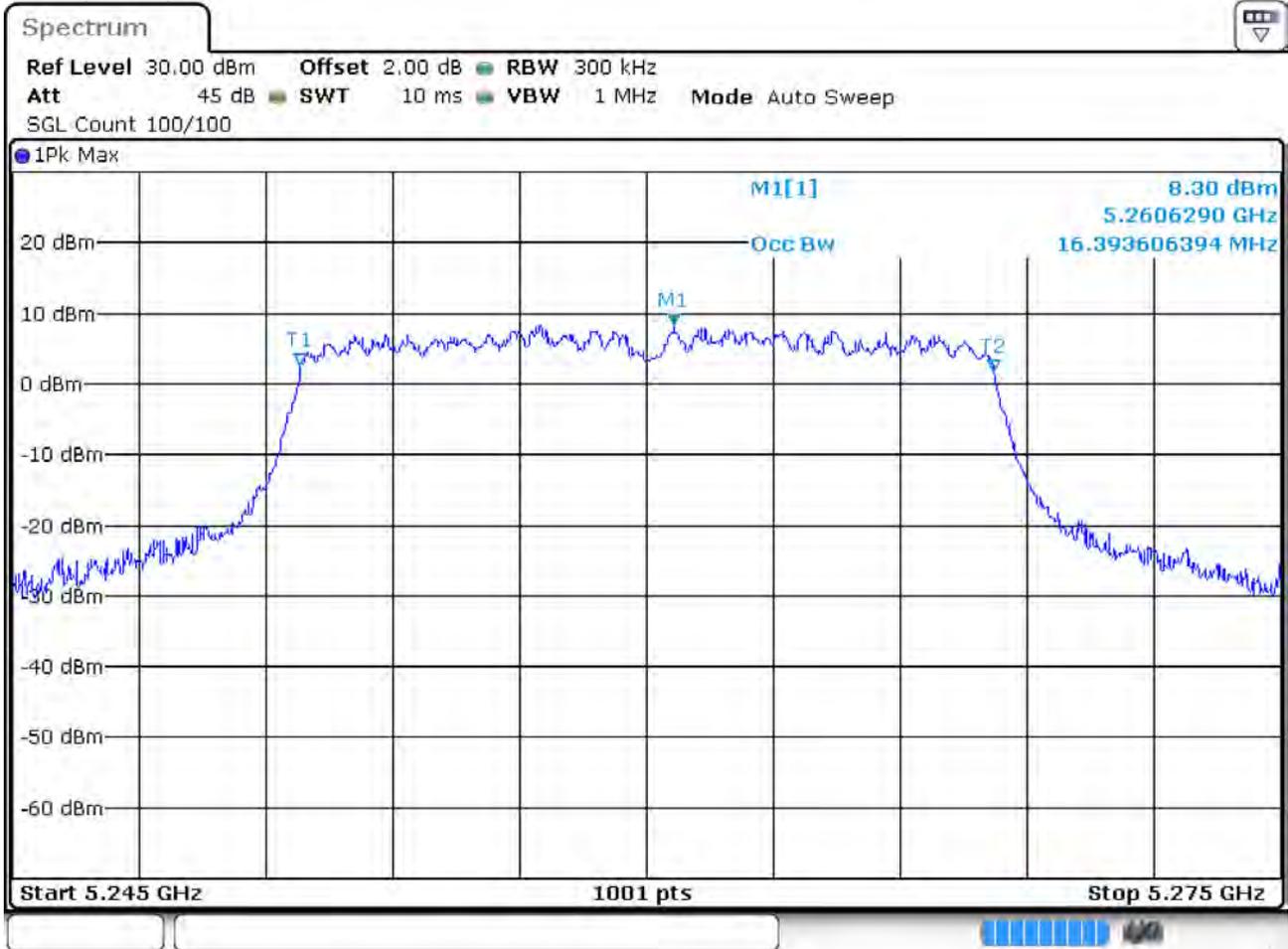


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**4.7.2.6 11A20\_CDD\_52 ANT 2**



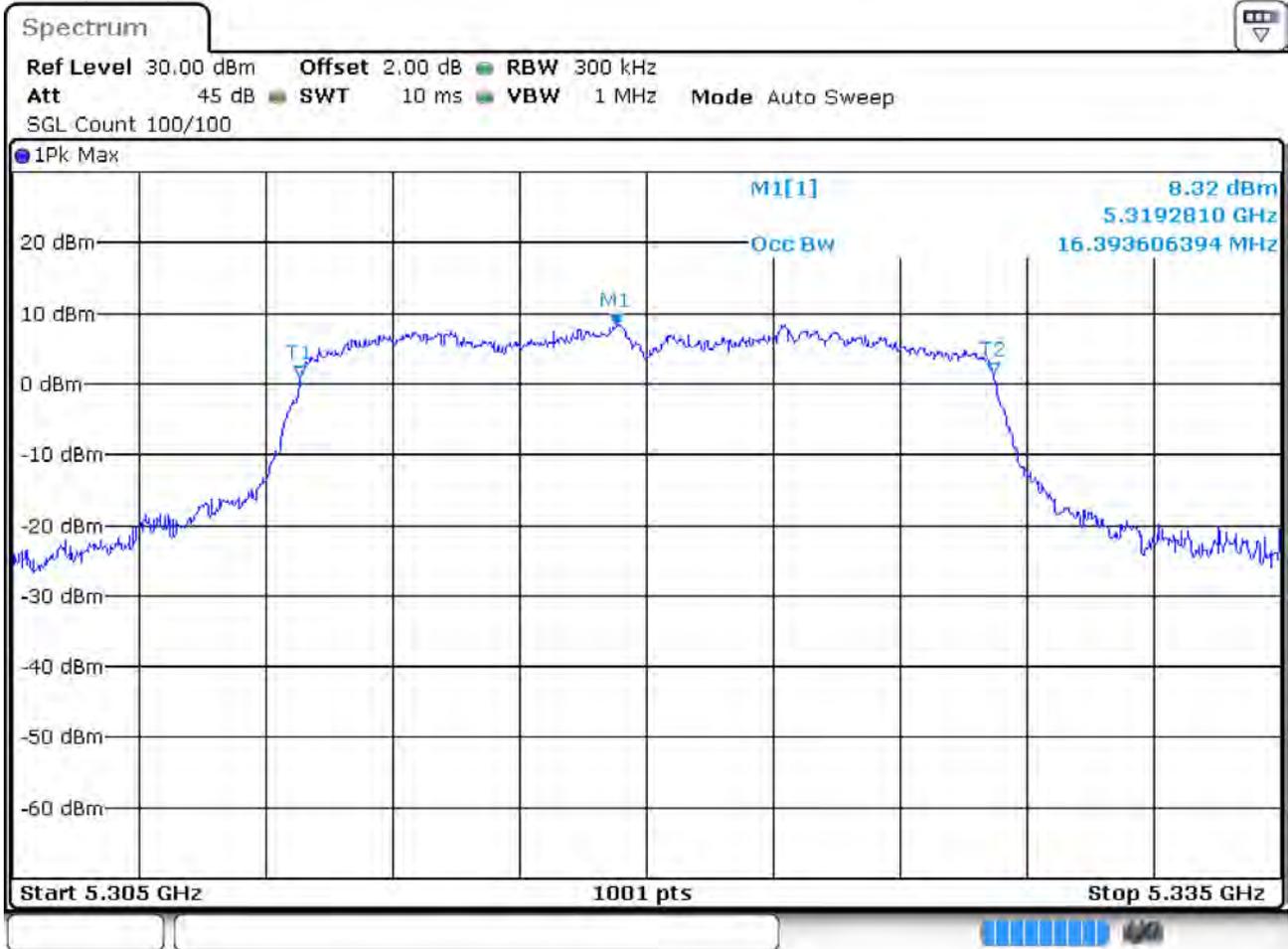
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**4.7.2.7 11A20\_CDD\_64 ANT 1**



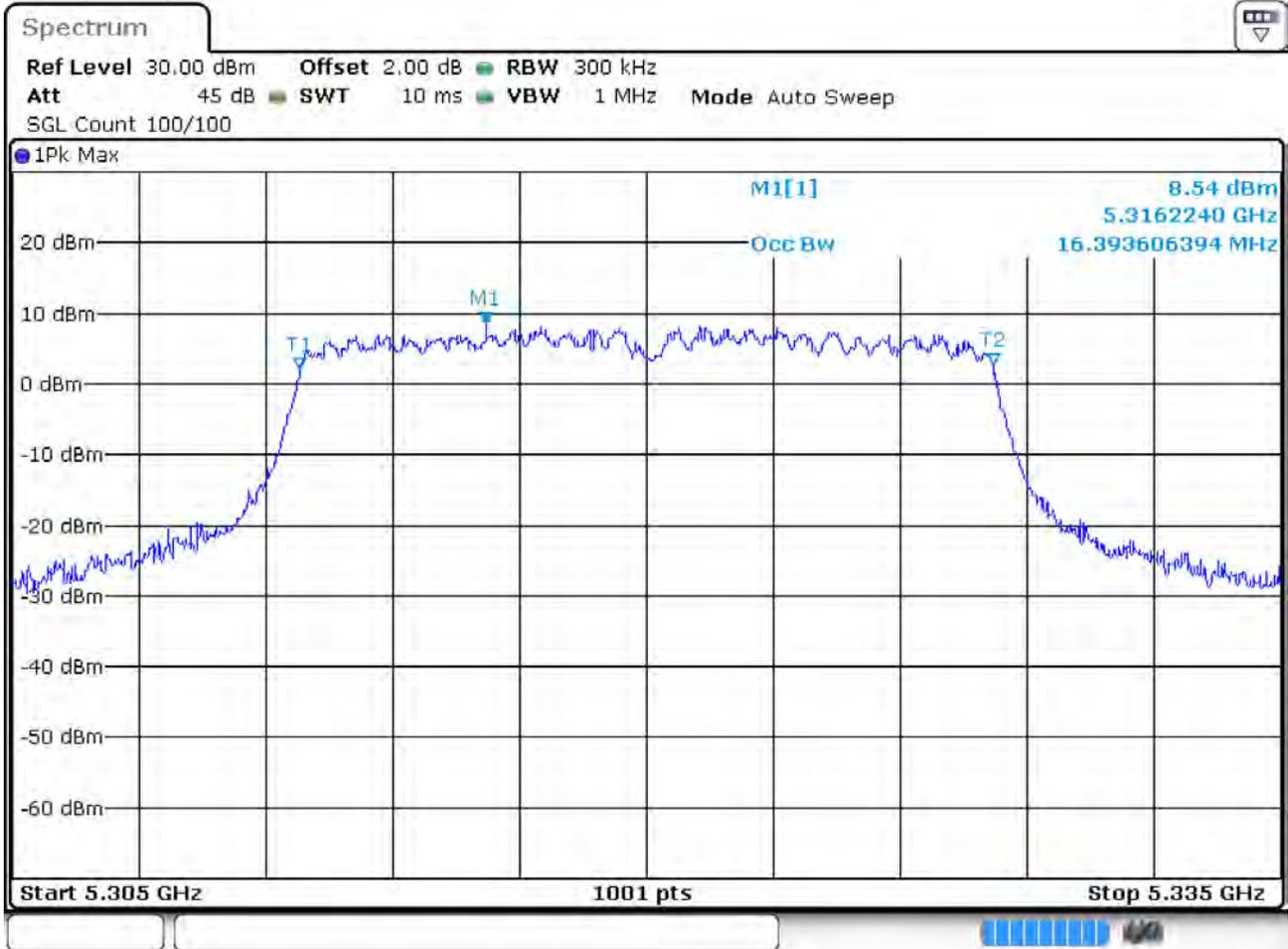
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**4.7.2.8 11A20\_CDD\_64 ANT 2**



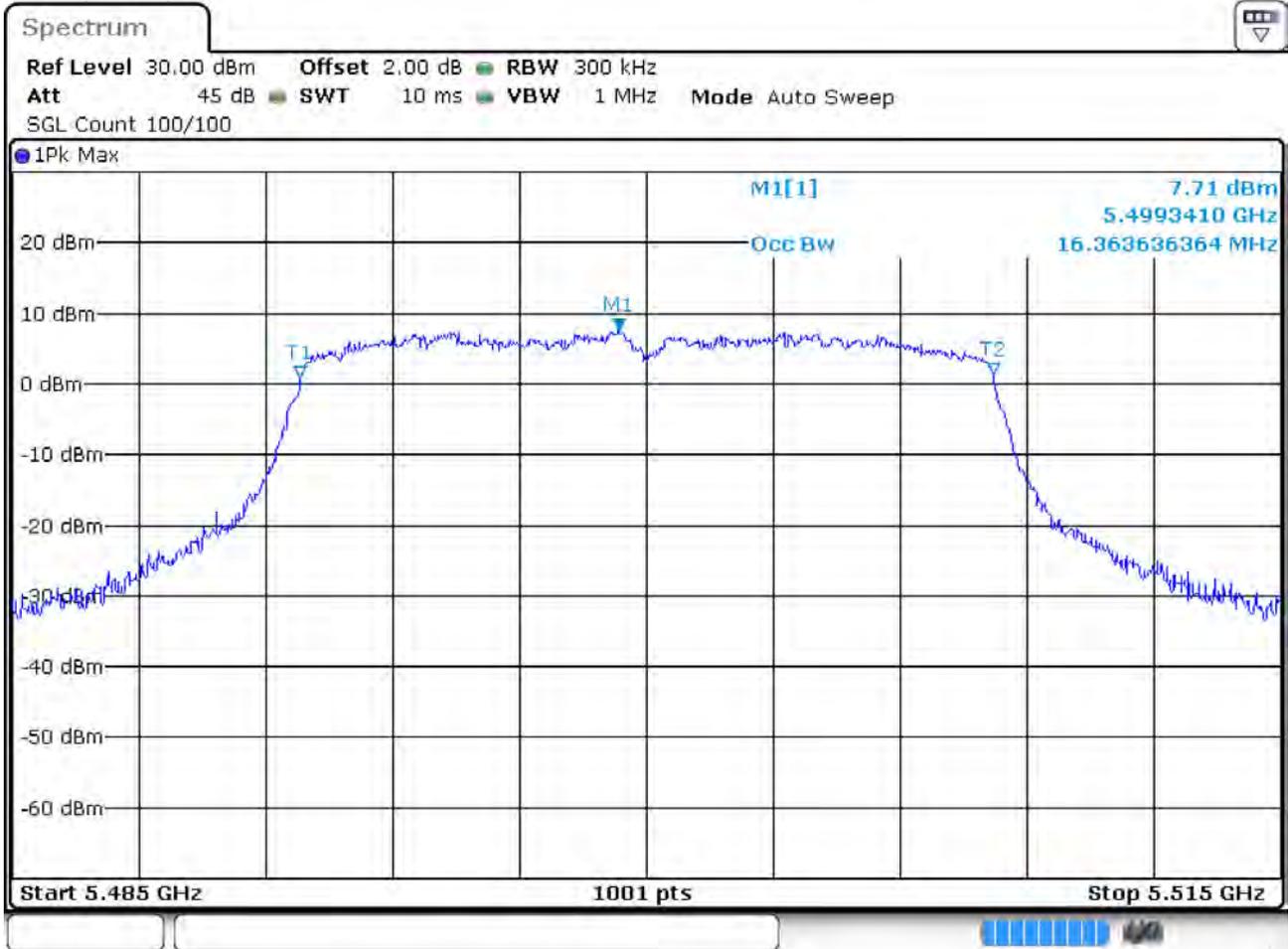
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**4.7.2.9 11A20\_CDD\_100 ANT 1**



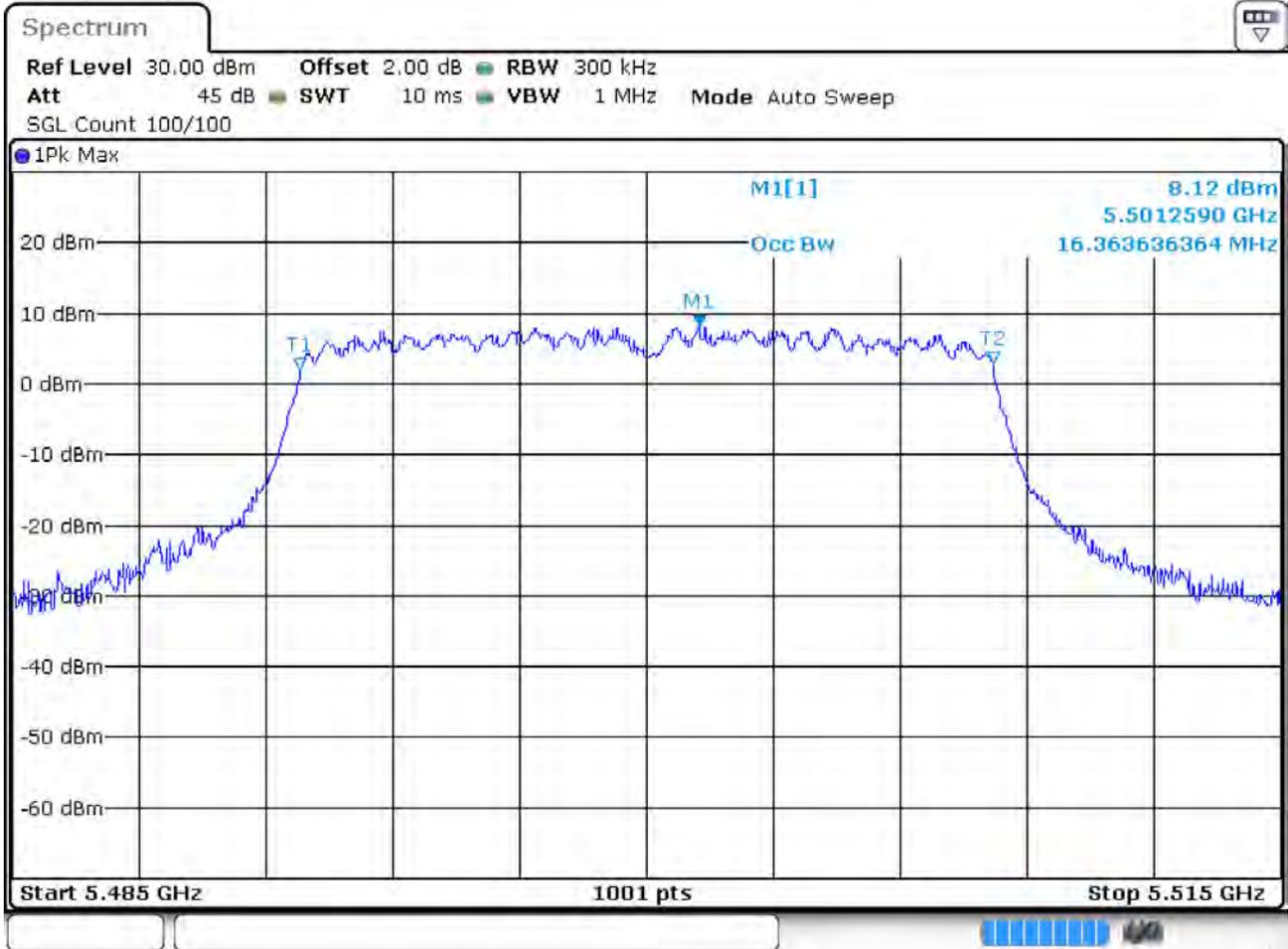
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**4.7.2.10 11A20\_CDD\_100 ANT 2**



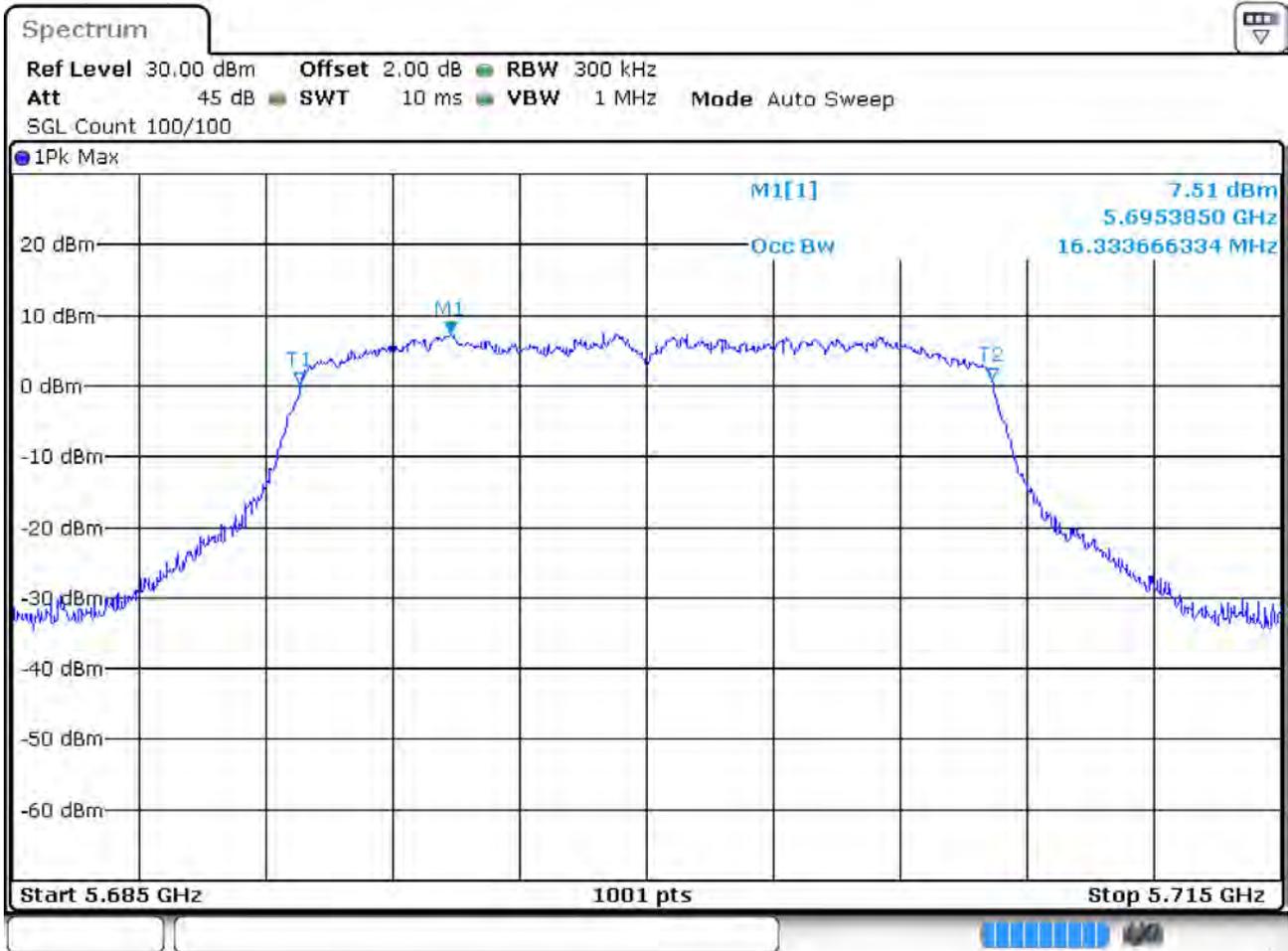
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**4.7.2.11 11A20\_CDD\_140 ANT 1**

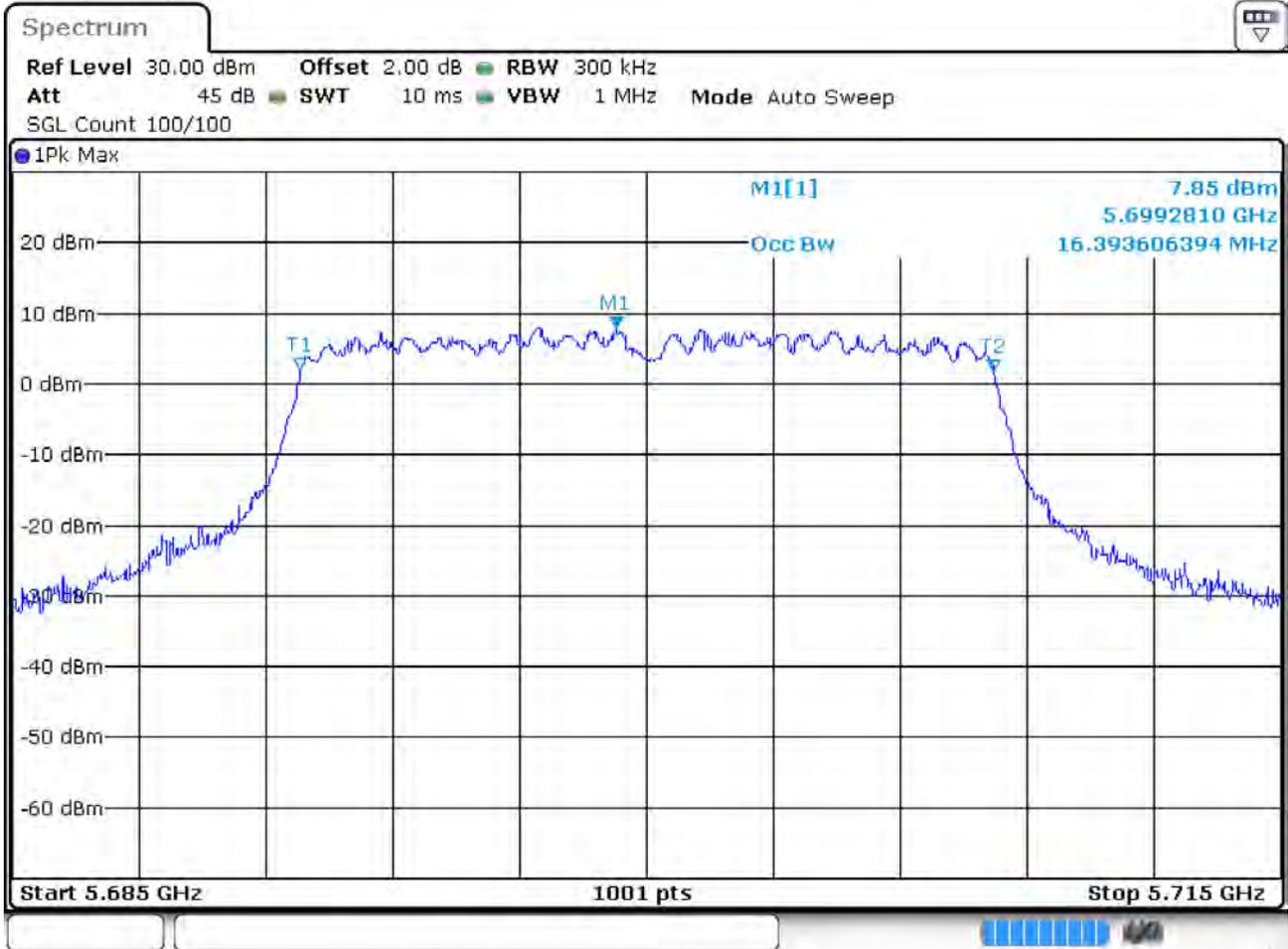


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**4.7.2.12 11A20\_CDD\_140 ANT 2**

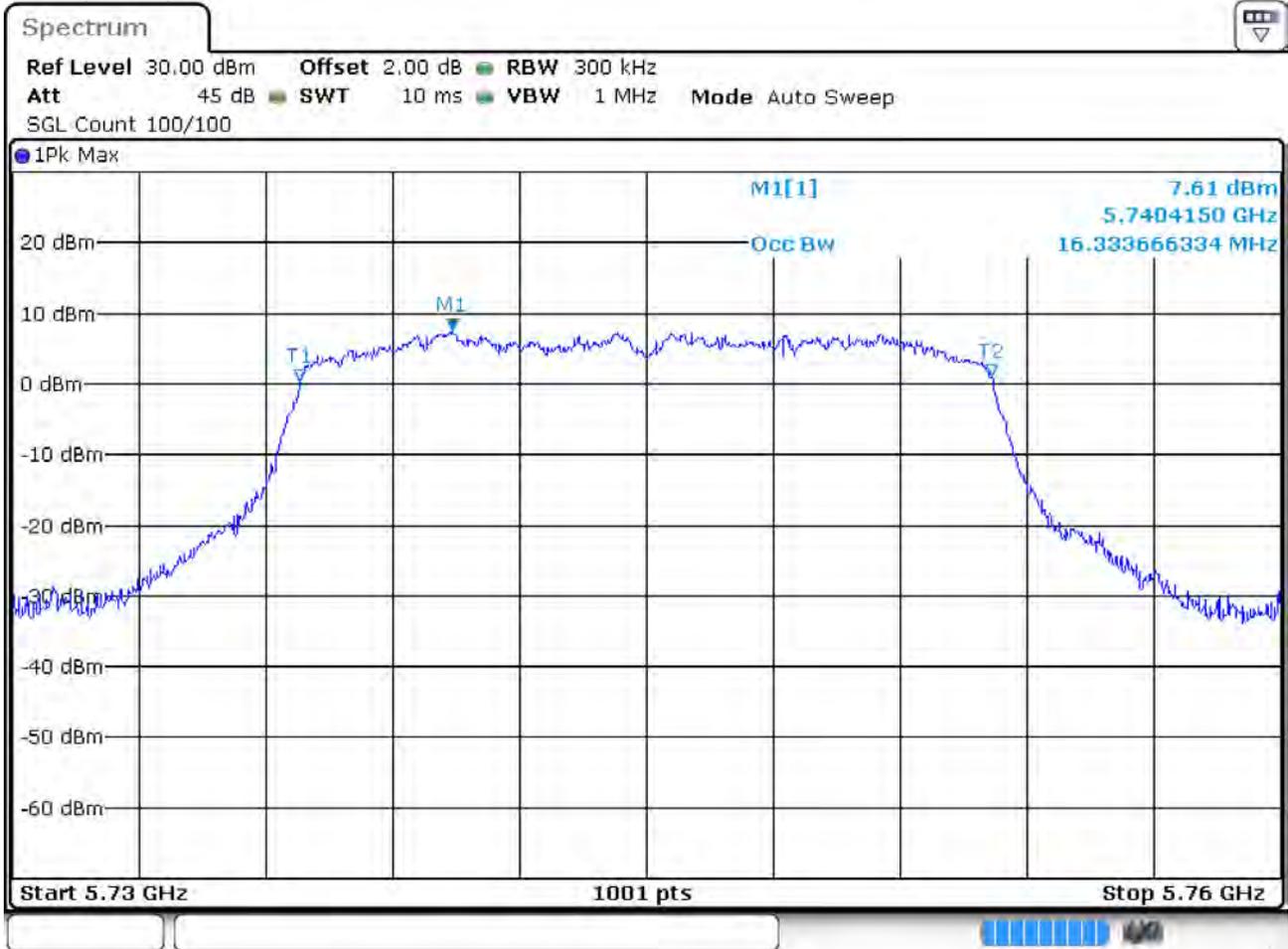


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**4.7.2.13 11A20\_CDD\_149 ANT 1**



Date: 9.APR.2020 04:13:22

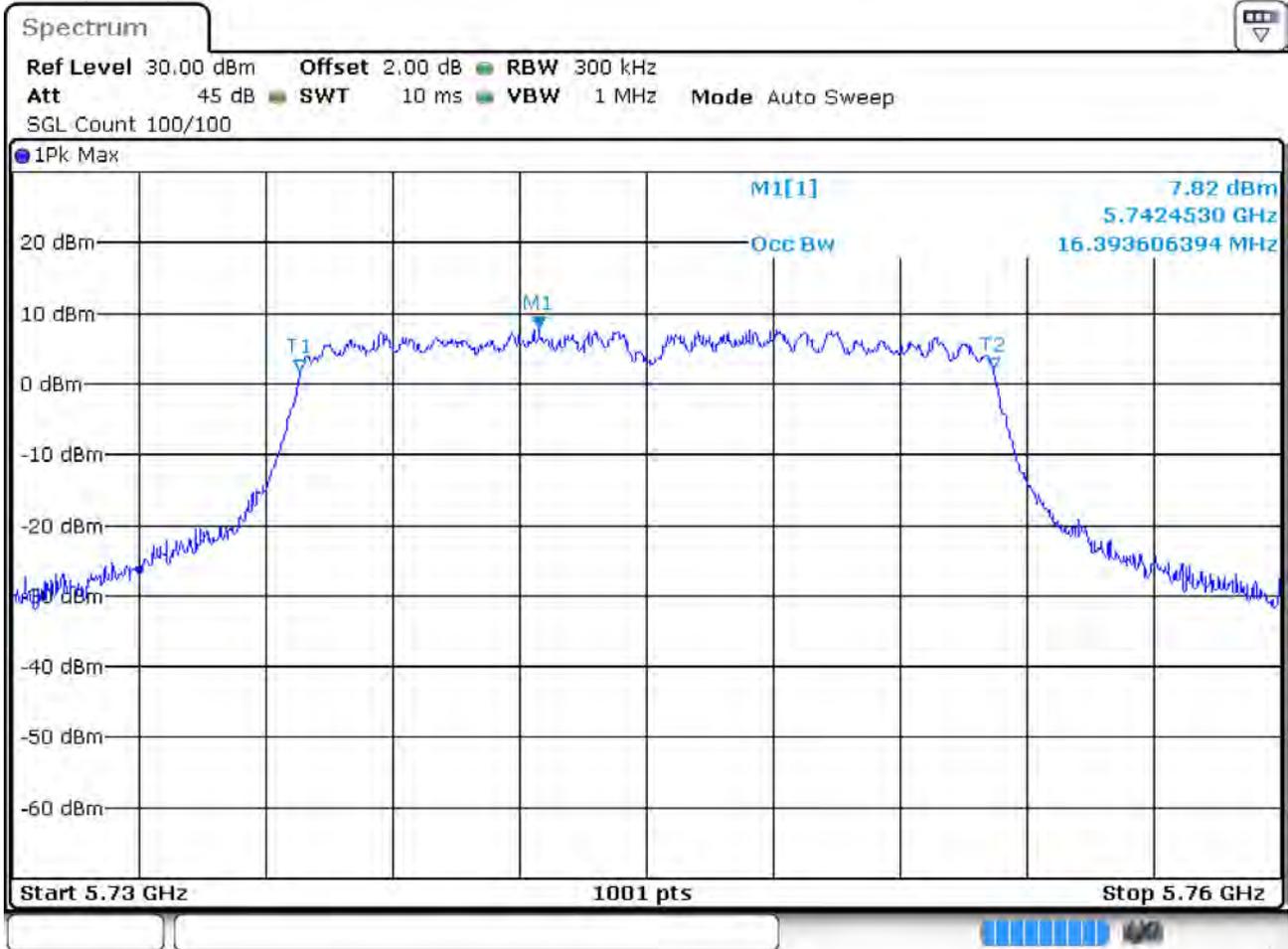


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**4.7.2.14 11A20\_CDD\_149 ANT 2**



Date: 9.APR.2020 07:27:13

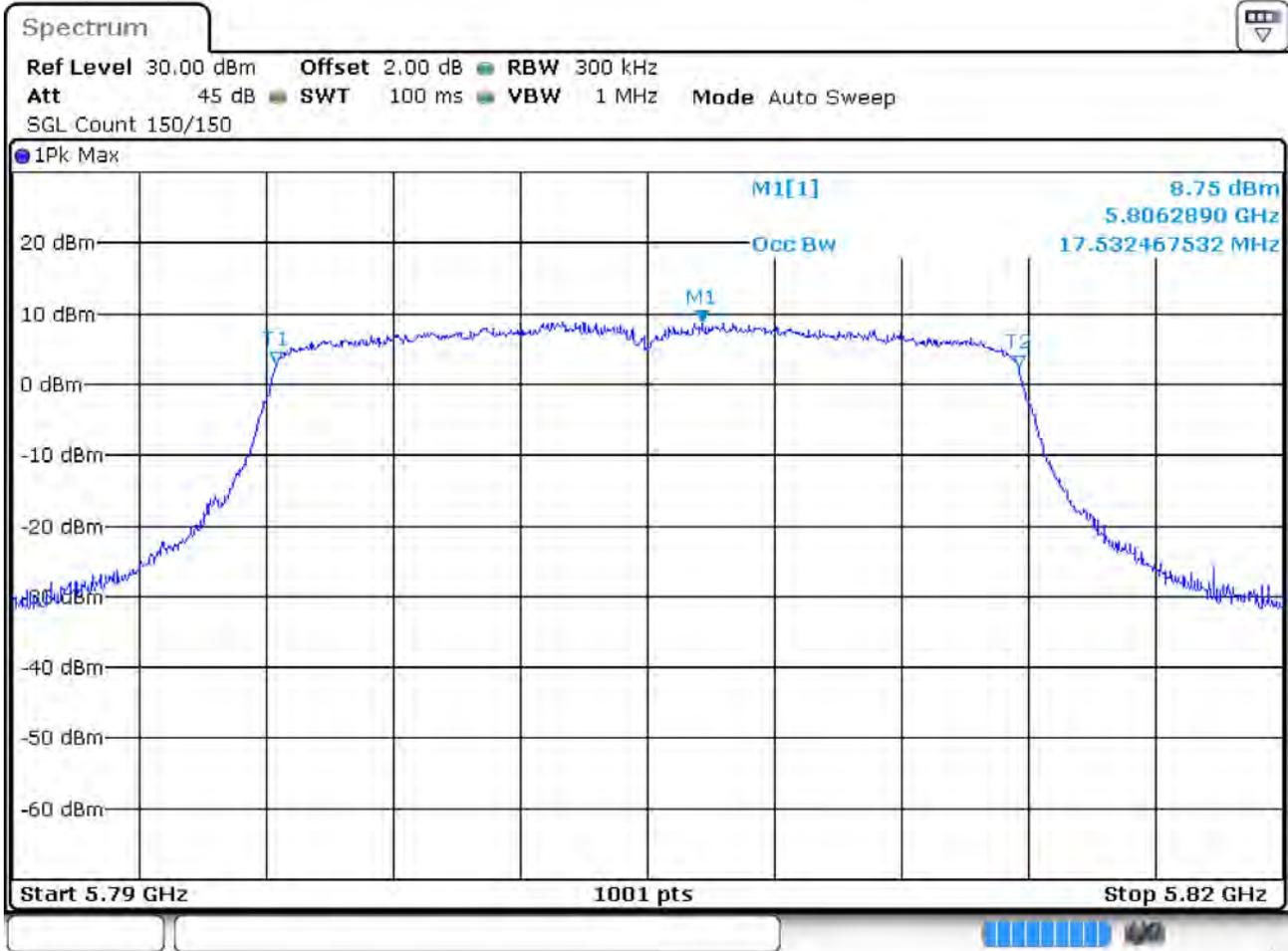


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**4.7.2.15 11A20\_CDD\_161 ANT 1**



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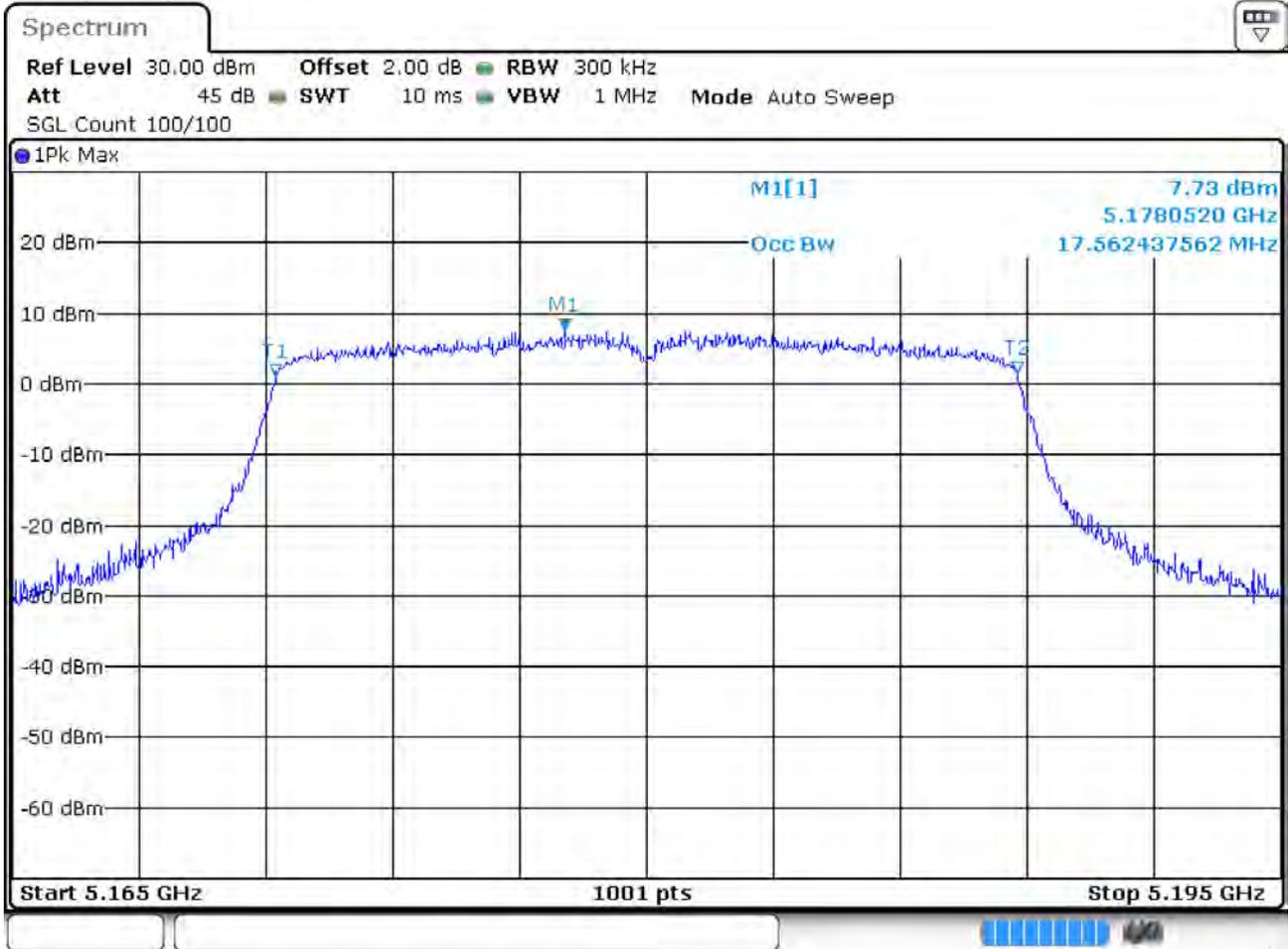
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Date: 21.APR.2020 06:55:13



**4.7.2.17 11N20MIMO\_36 ANT 1**



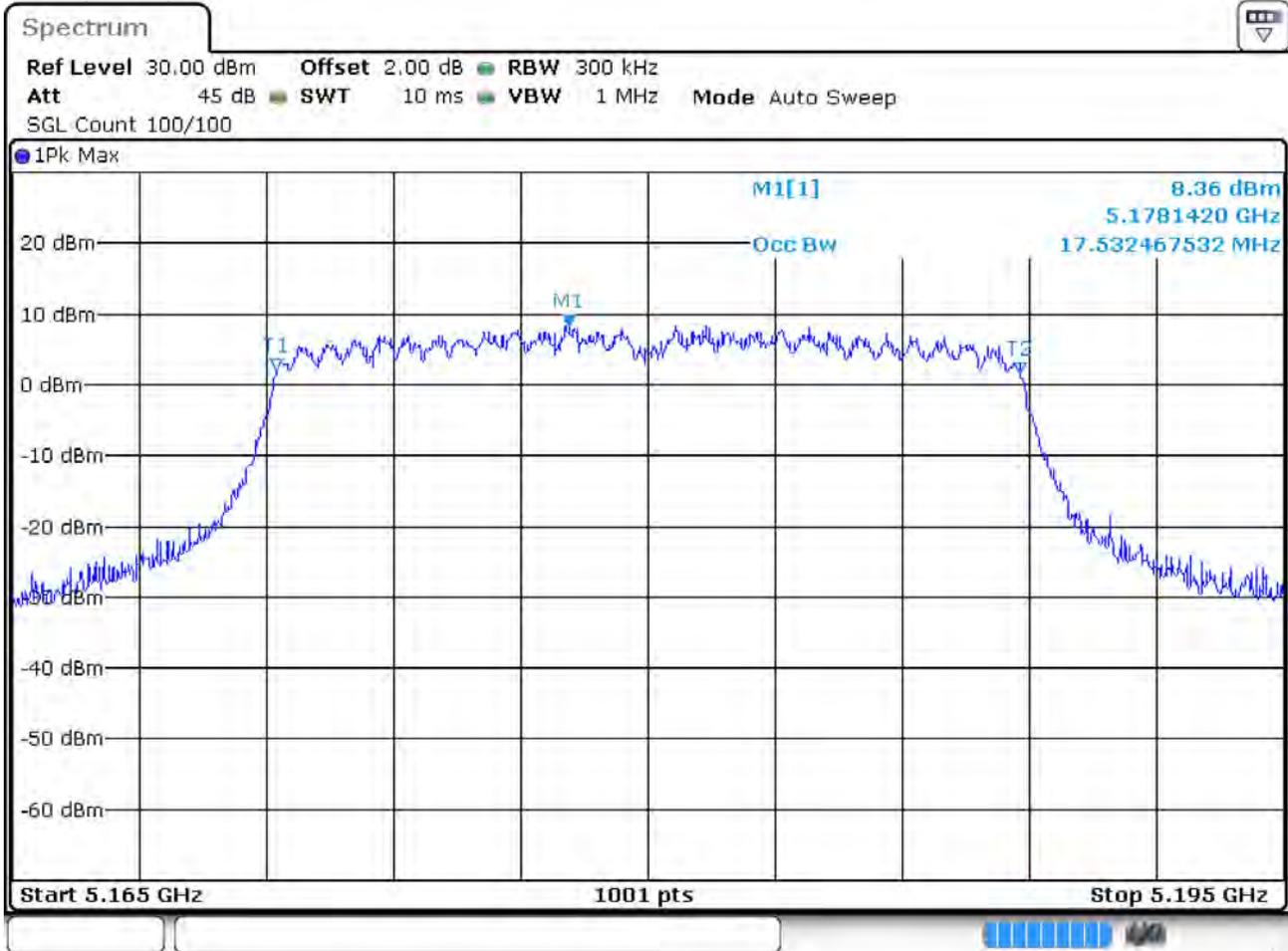
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**4.7.2.18 11N20MIMO\_36 ANT 2**



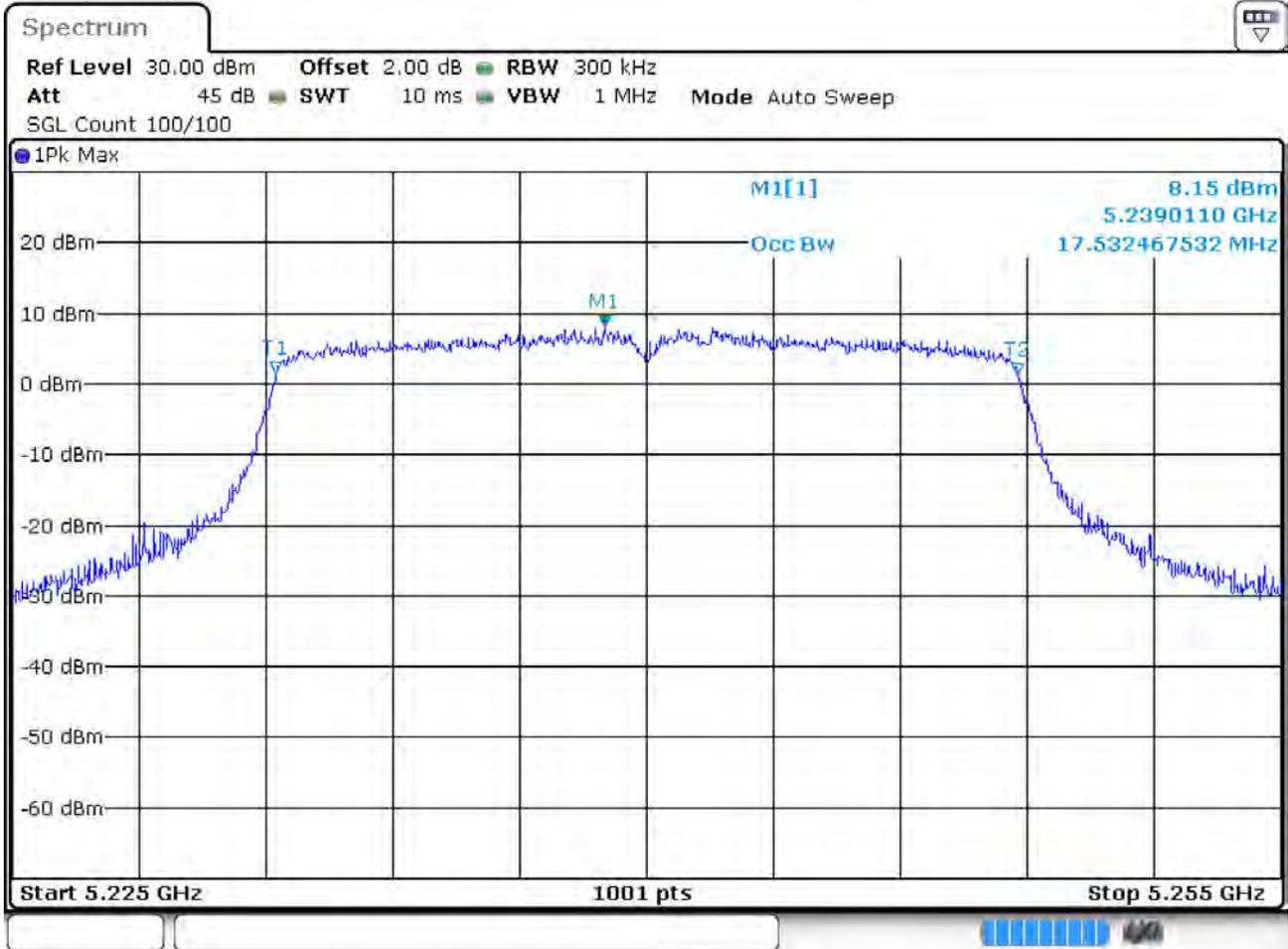
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**4.7.2.19 11N20MIMO\_48 ANT 1**



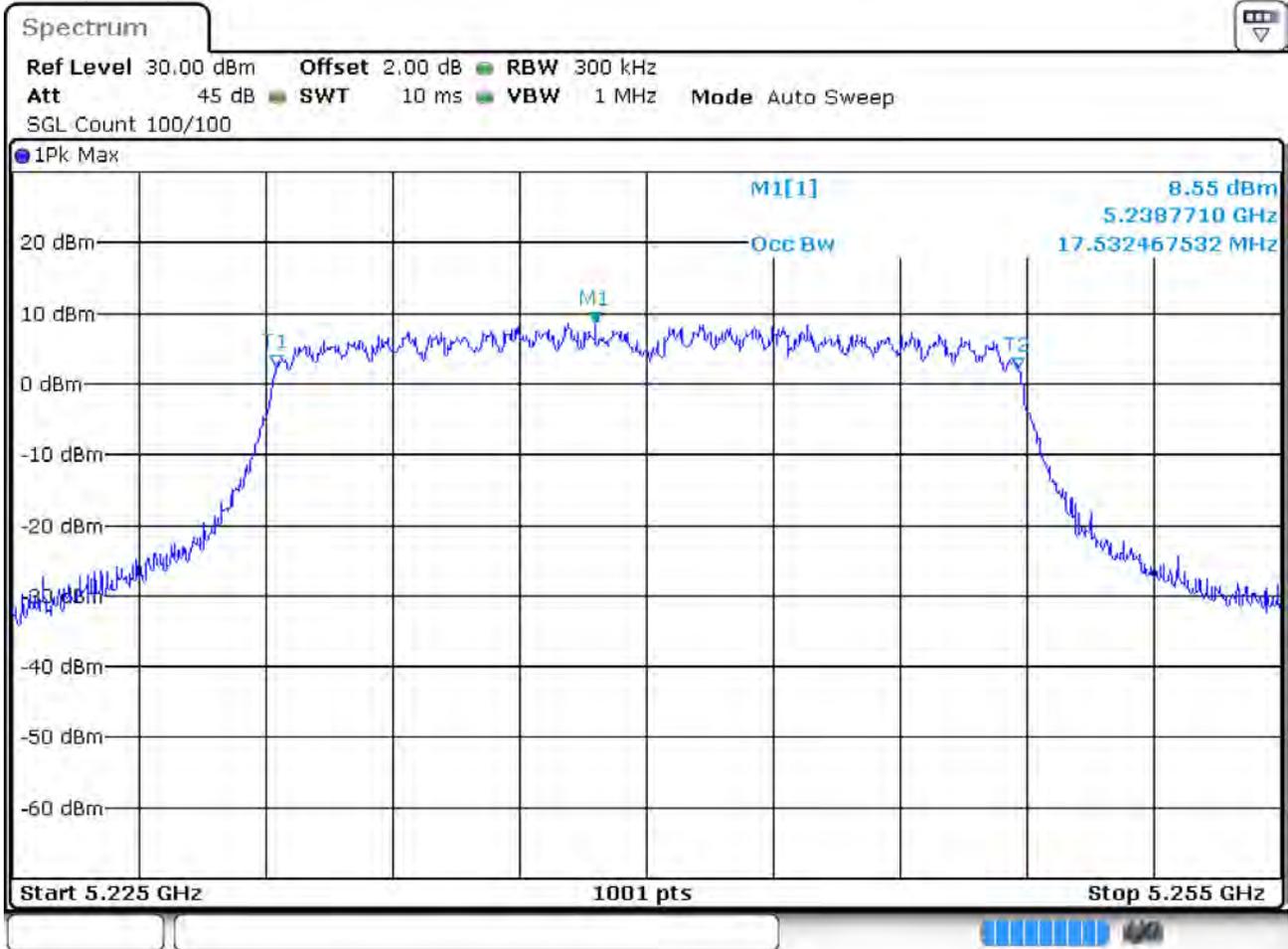
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**4.7.2.20 11N20MIMO\_48 ANT 2**



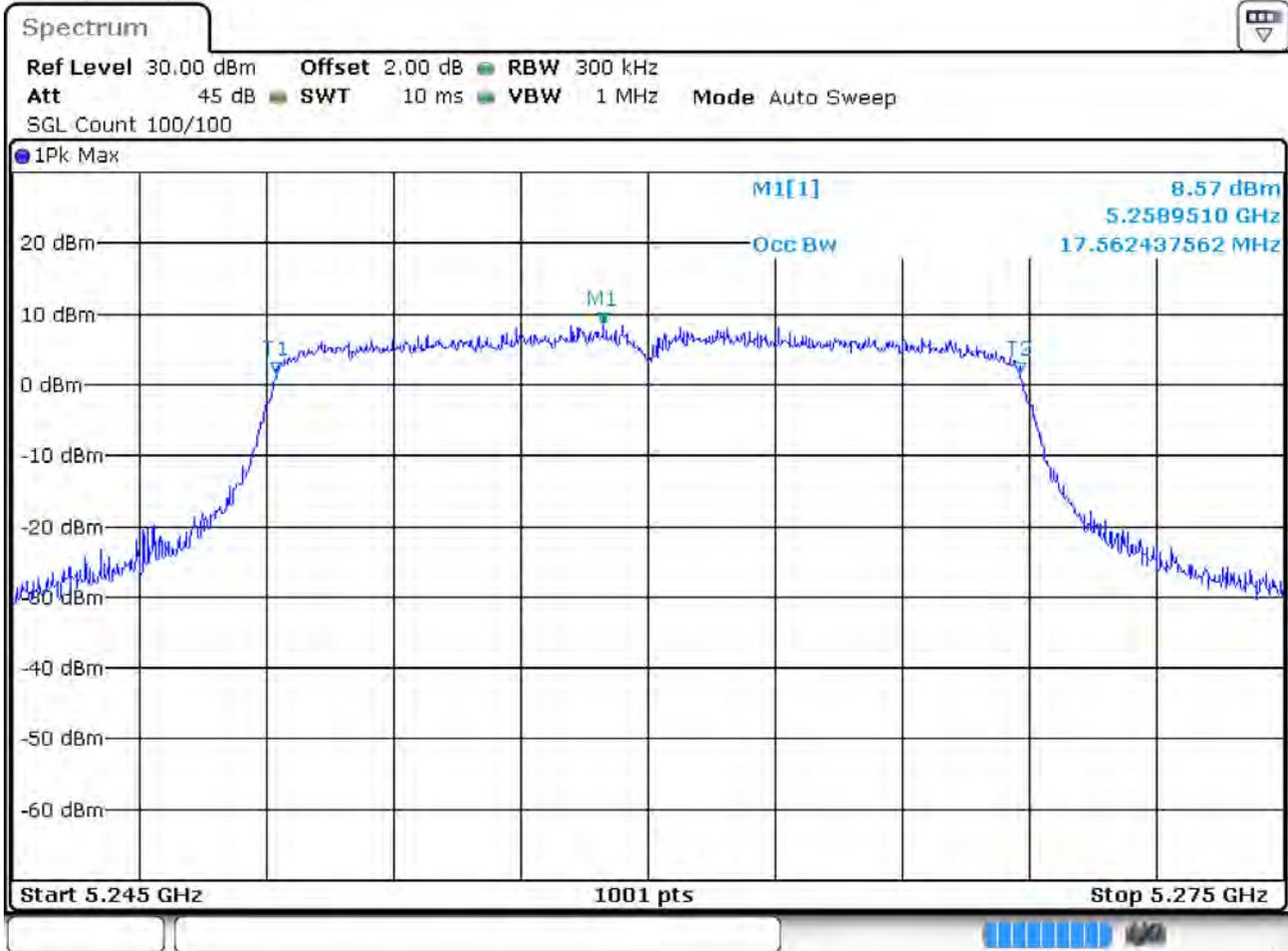
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**4.7.2.21 11N20MIMO\_52 ANT 1**



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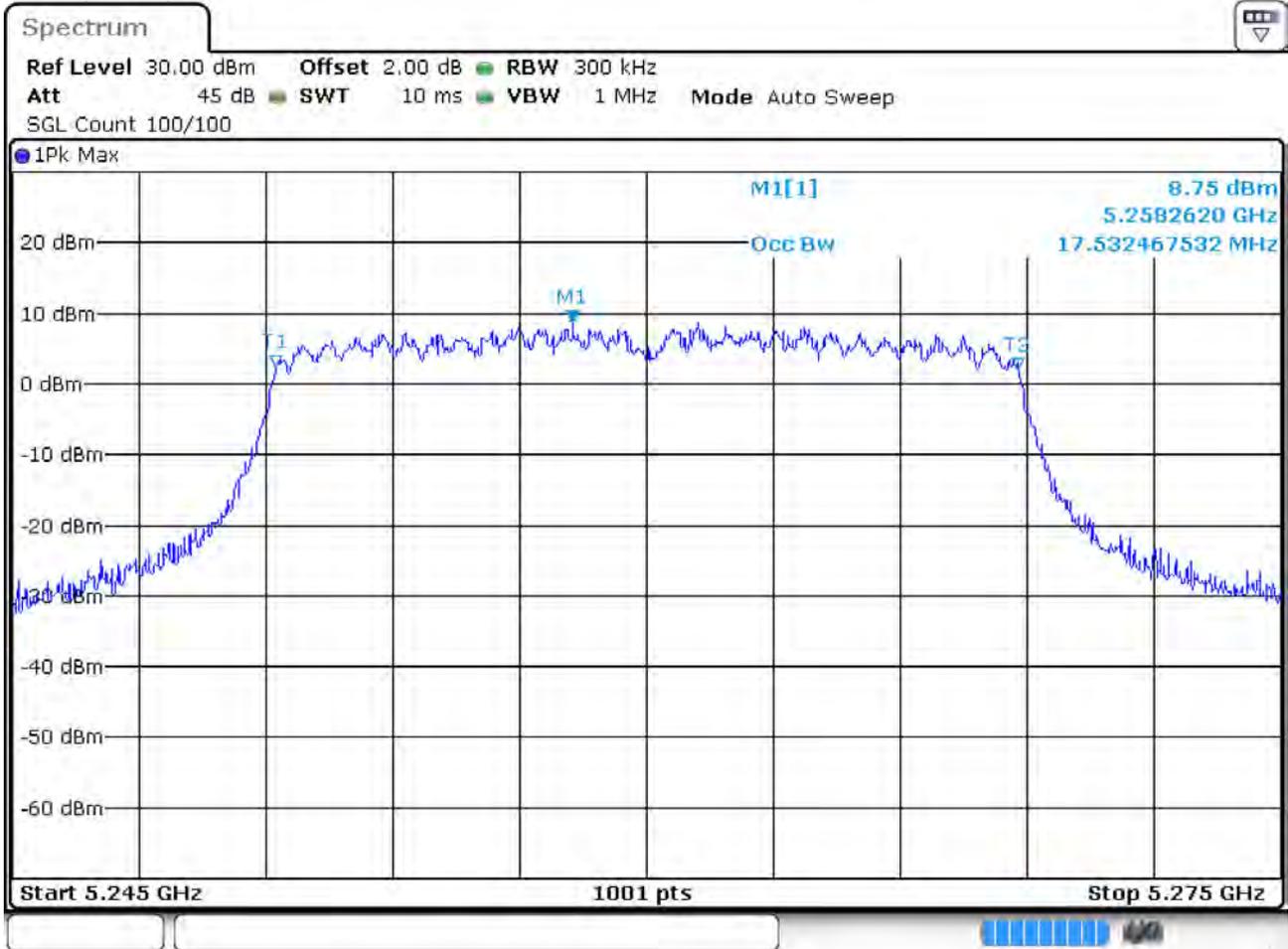


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**4.7.2.22 11N20MIMO\_52 ANT 2**



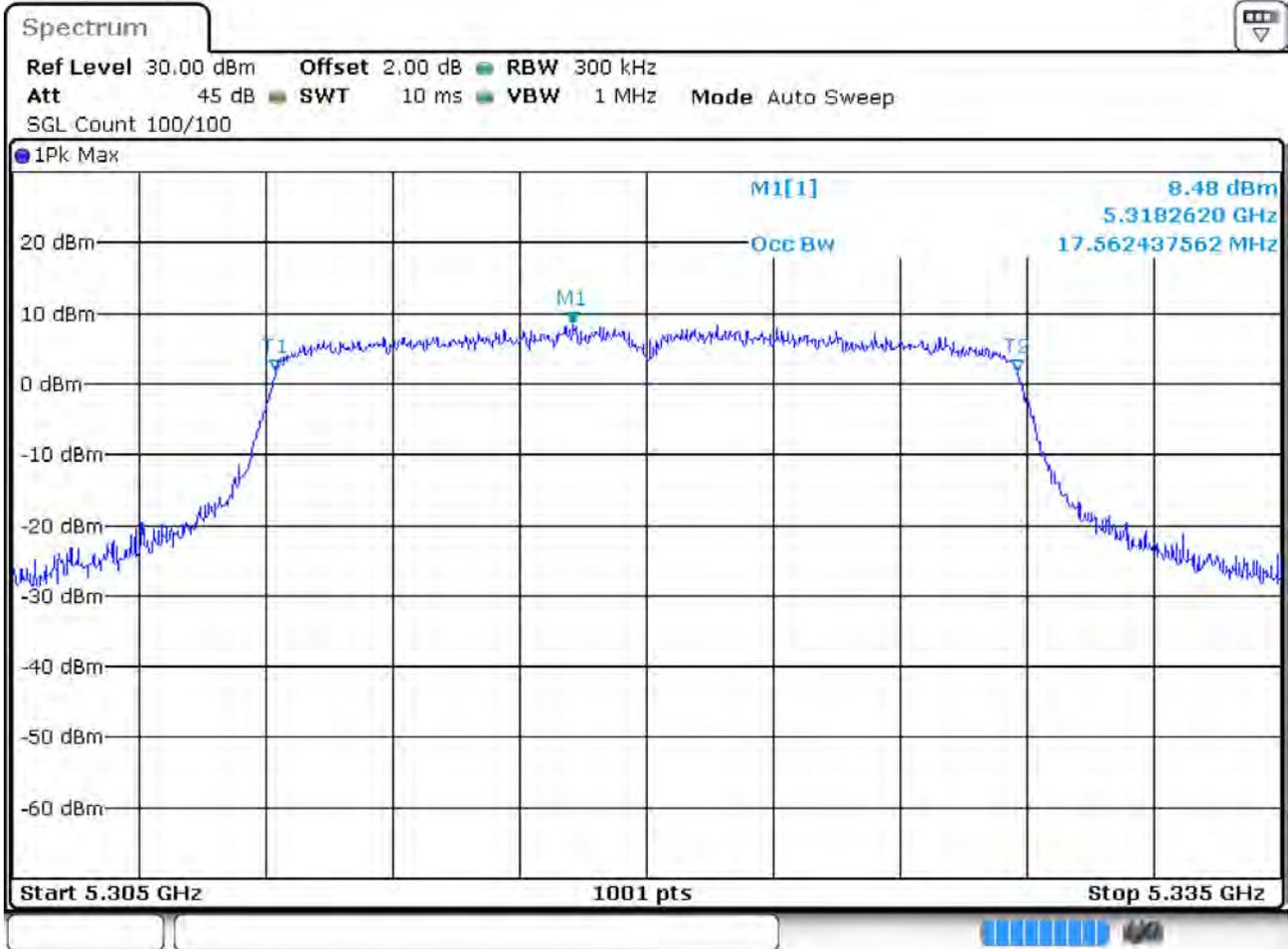
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**4.7.2.23 11N20MIMO\_64 ANT 1**



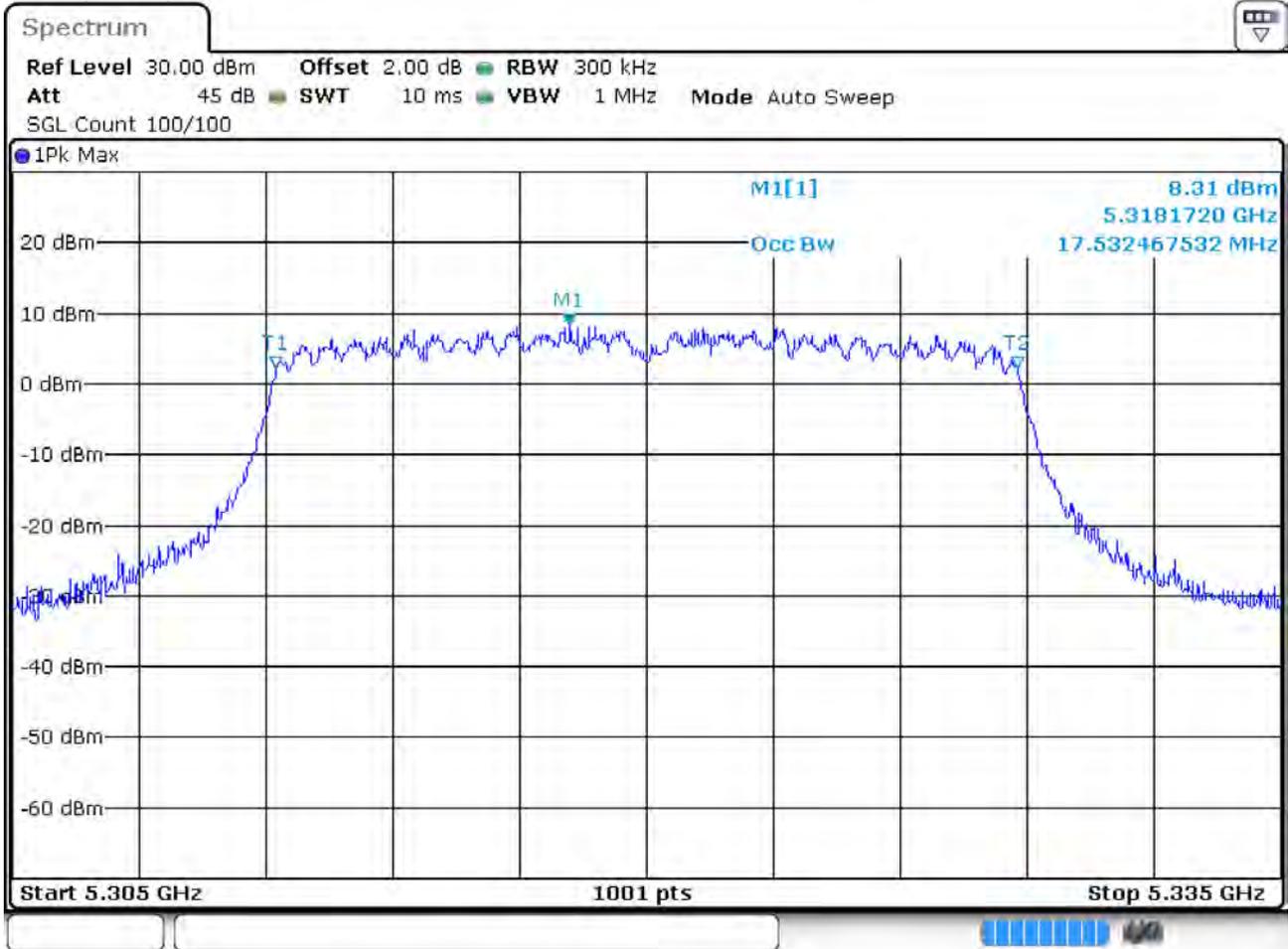
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**4.7.2.24 11N20MIMO\_64 ANT 2**



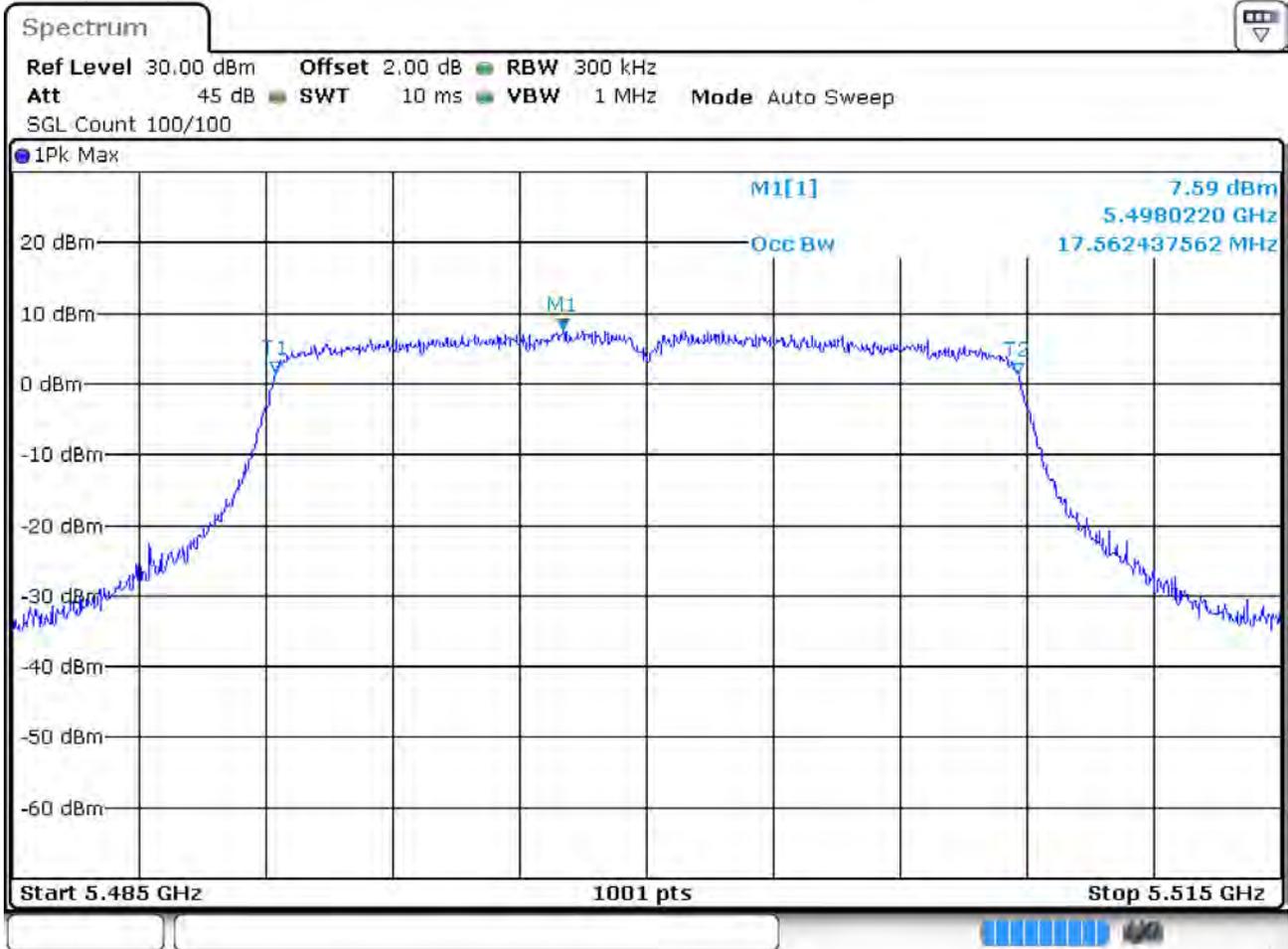
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**4.7.2.25 11N20MIMO\_100 ANT 1**

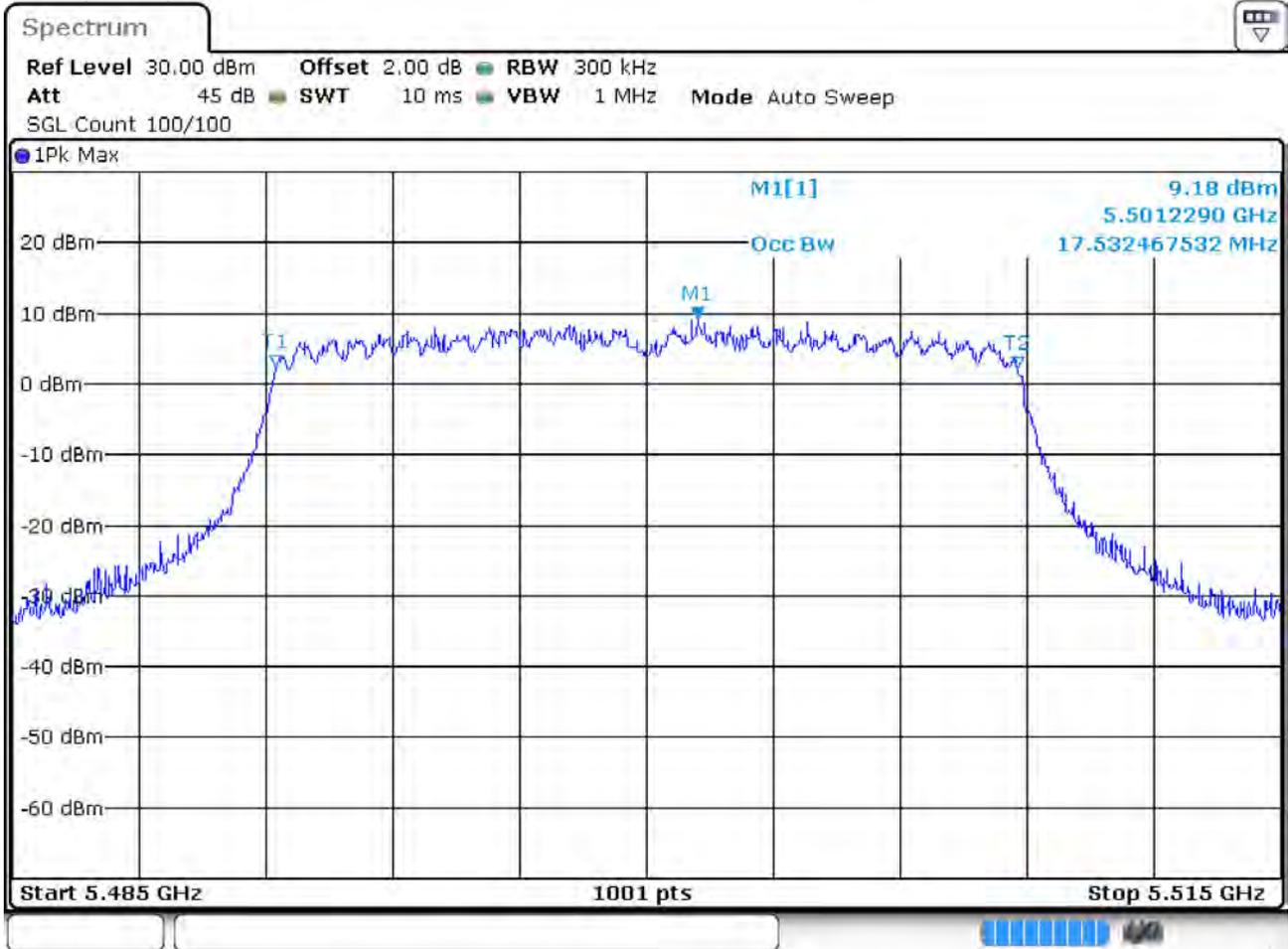


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**4.7.2.26 11N20MIMO\_100 ANT 2**



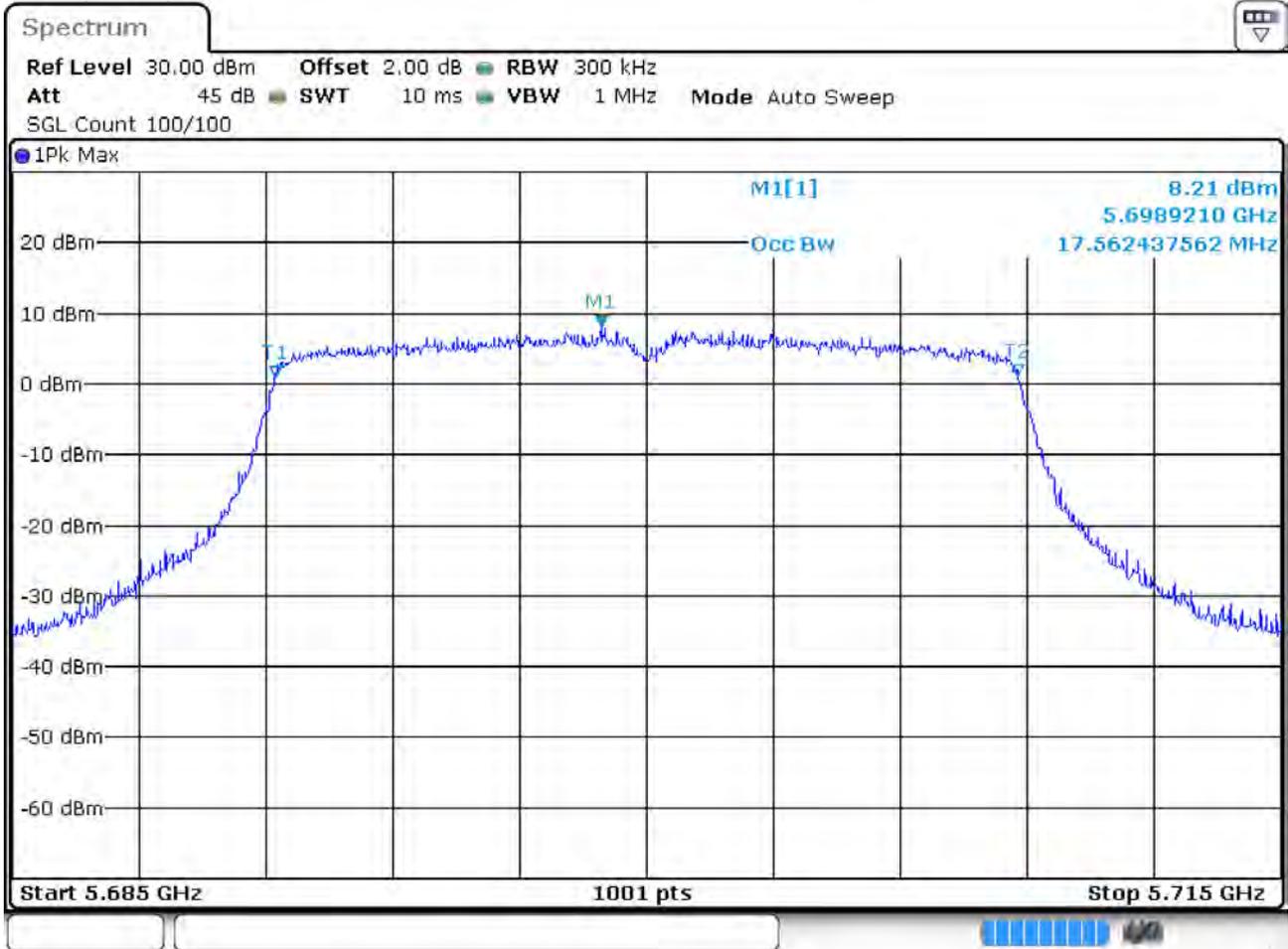
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**4.7.2.27 11N20MIMO\_140 ANT 1**



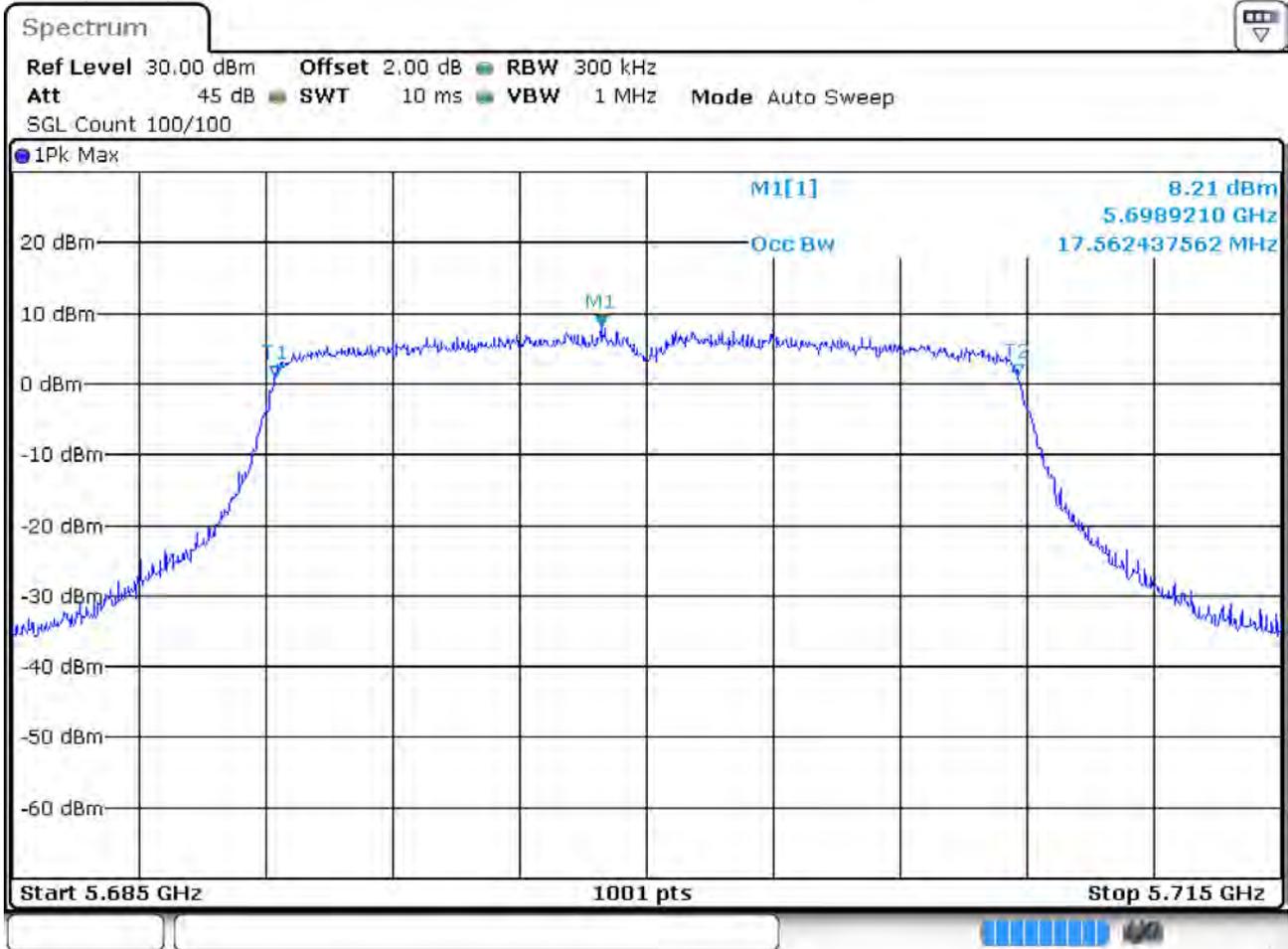
Date: 9.APR.2020 04:29:49



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**4.7.2.28 11N20MIMO\_140 ANT 2**



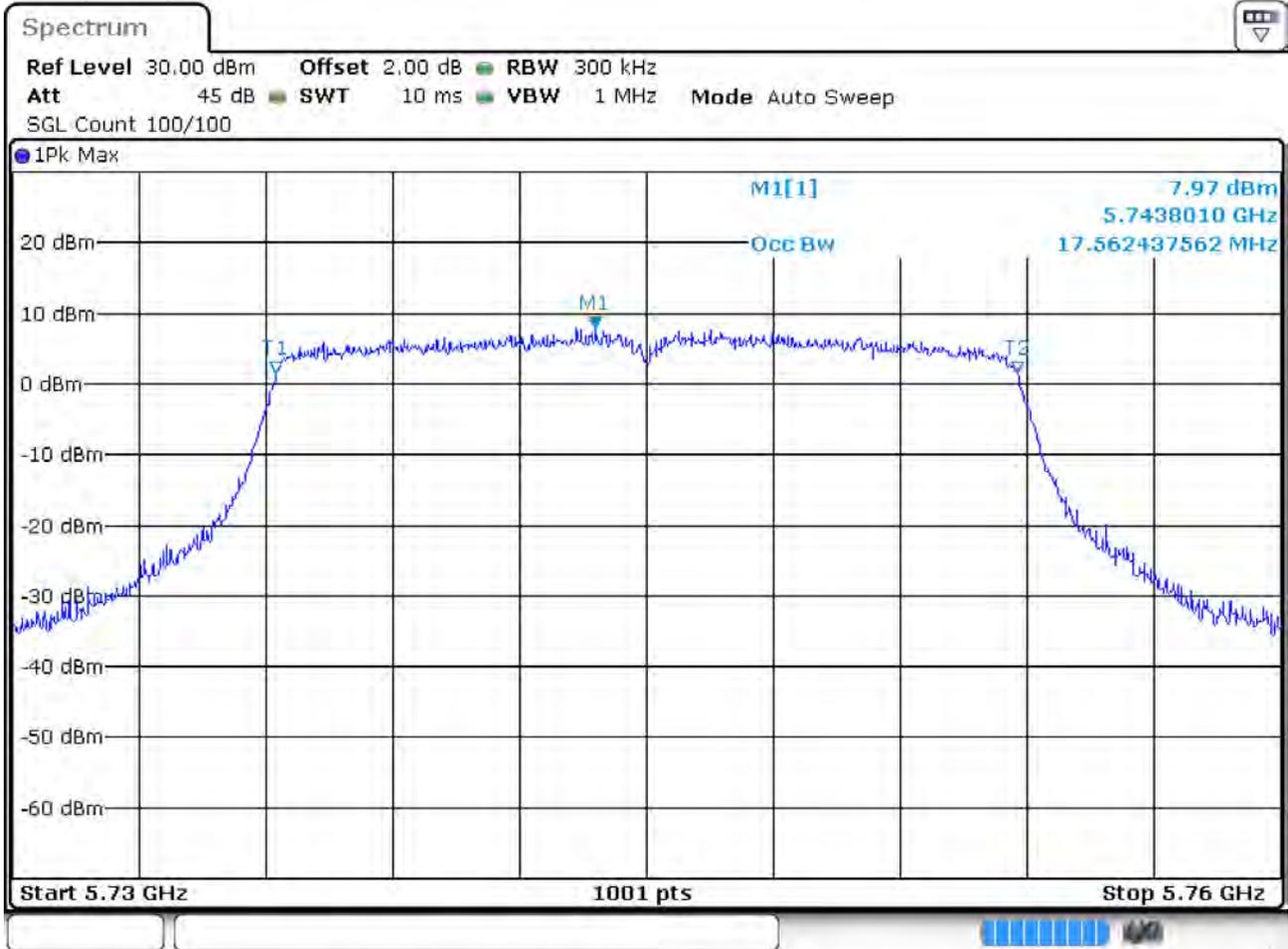
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**4.7.2.29 11N20MIMO\_149 ANT 1**



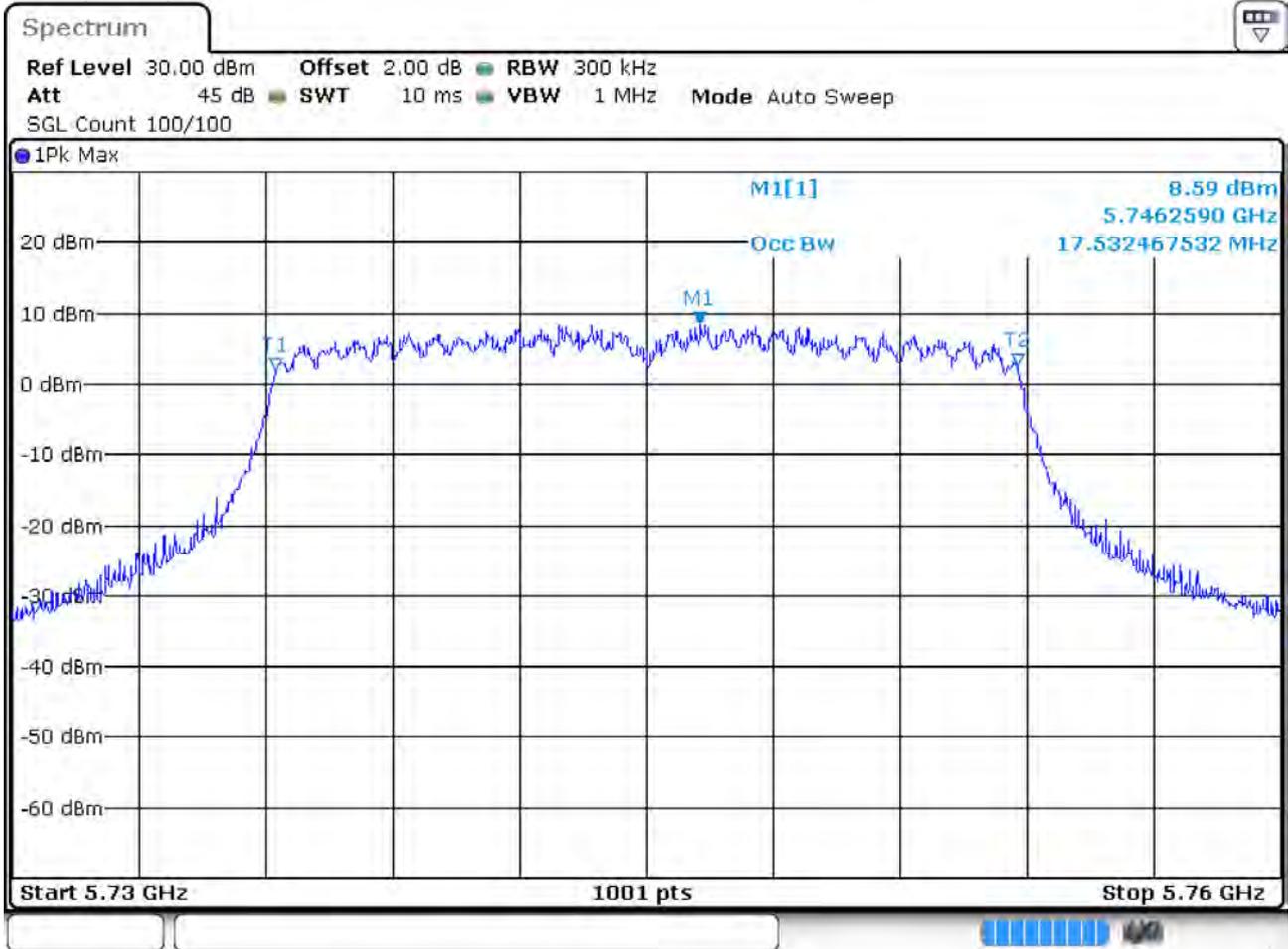
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**4.7.2.30 11N20MIMO\_149 ANT 2**

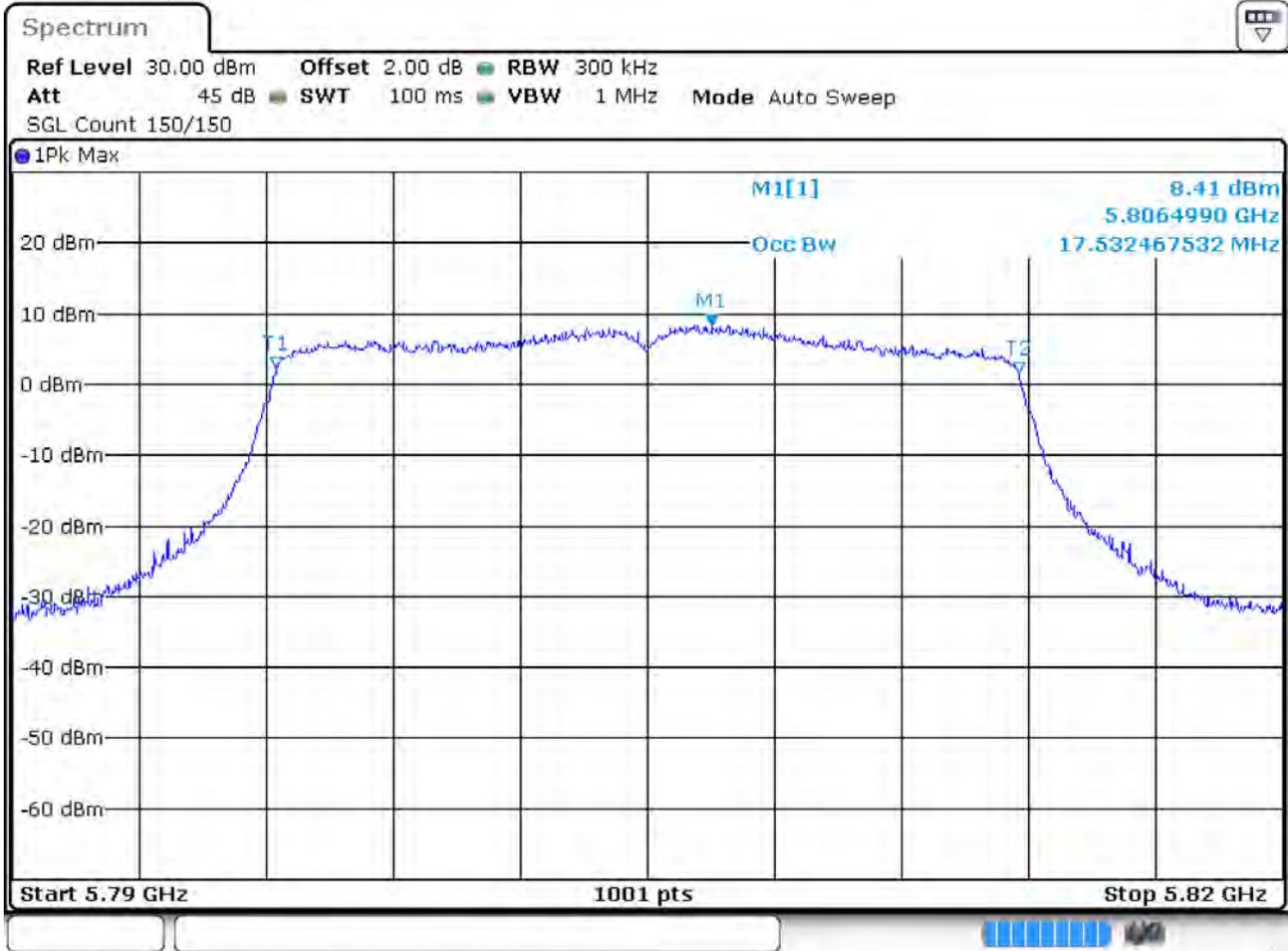


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**4.7.2.31 11N20MIMO\_161 ANT 1**



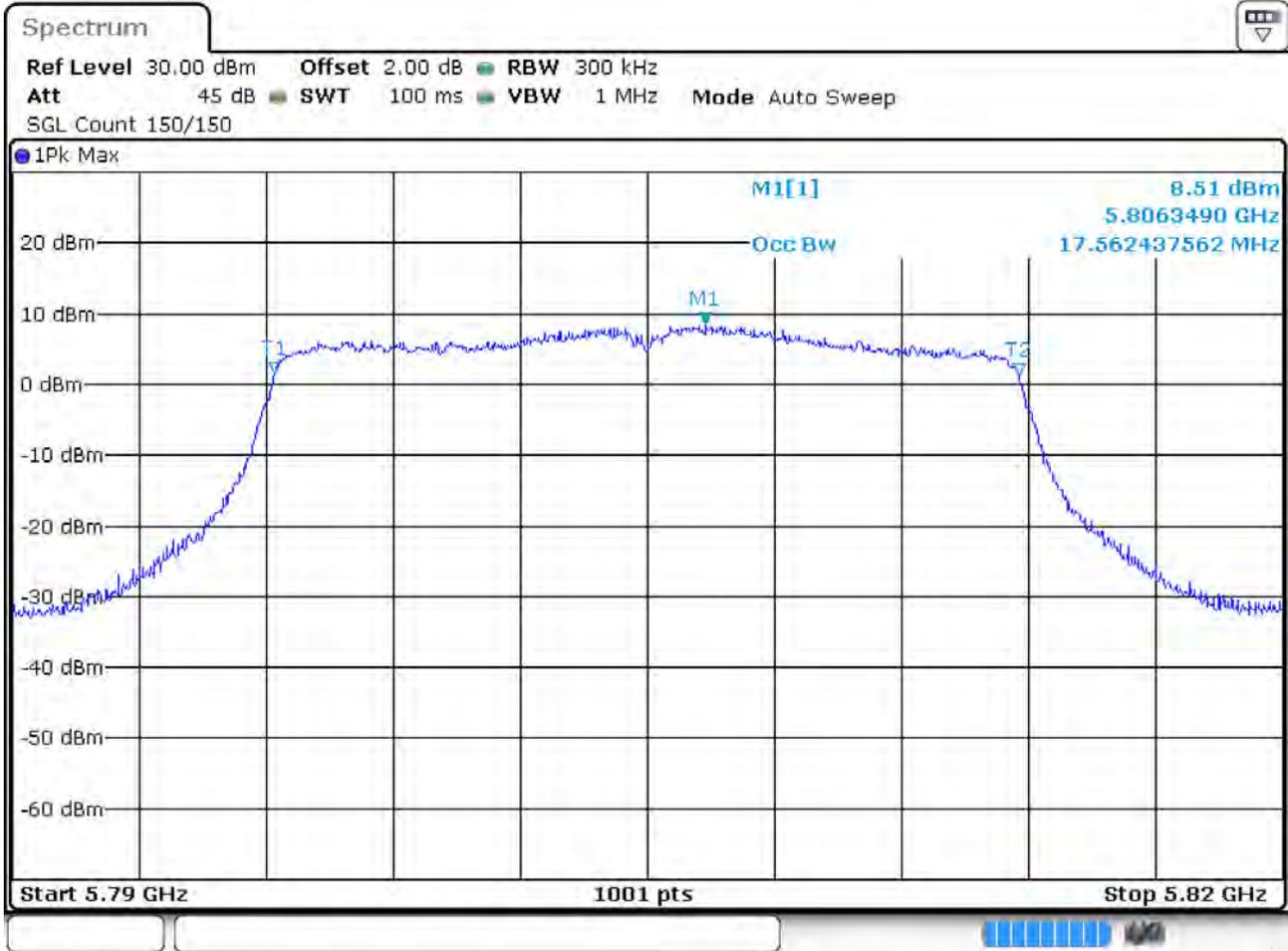
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**4.7.2.32 11N20MIMO\_161 ANT 2**

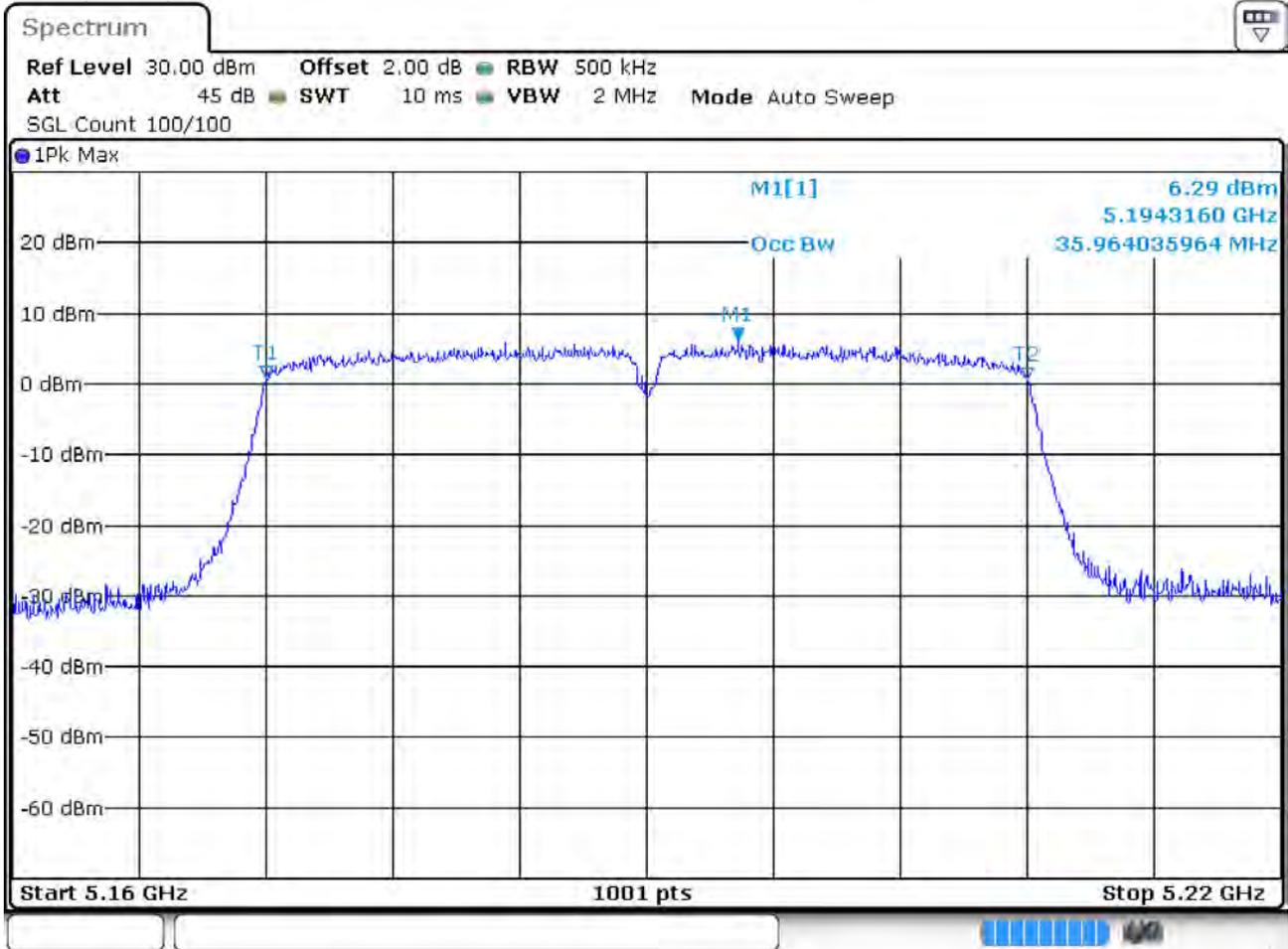


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**4.7.2.33 11N40MIMO\_38 ANT 1**



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