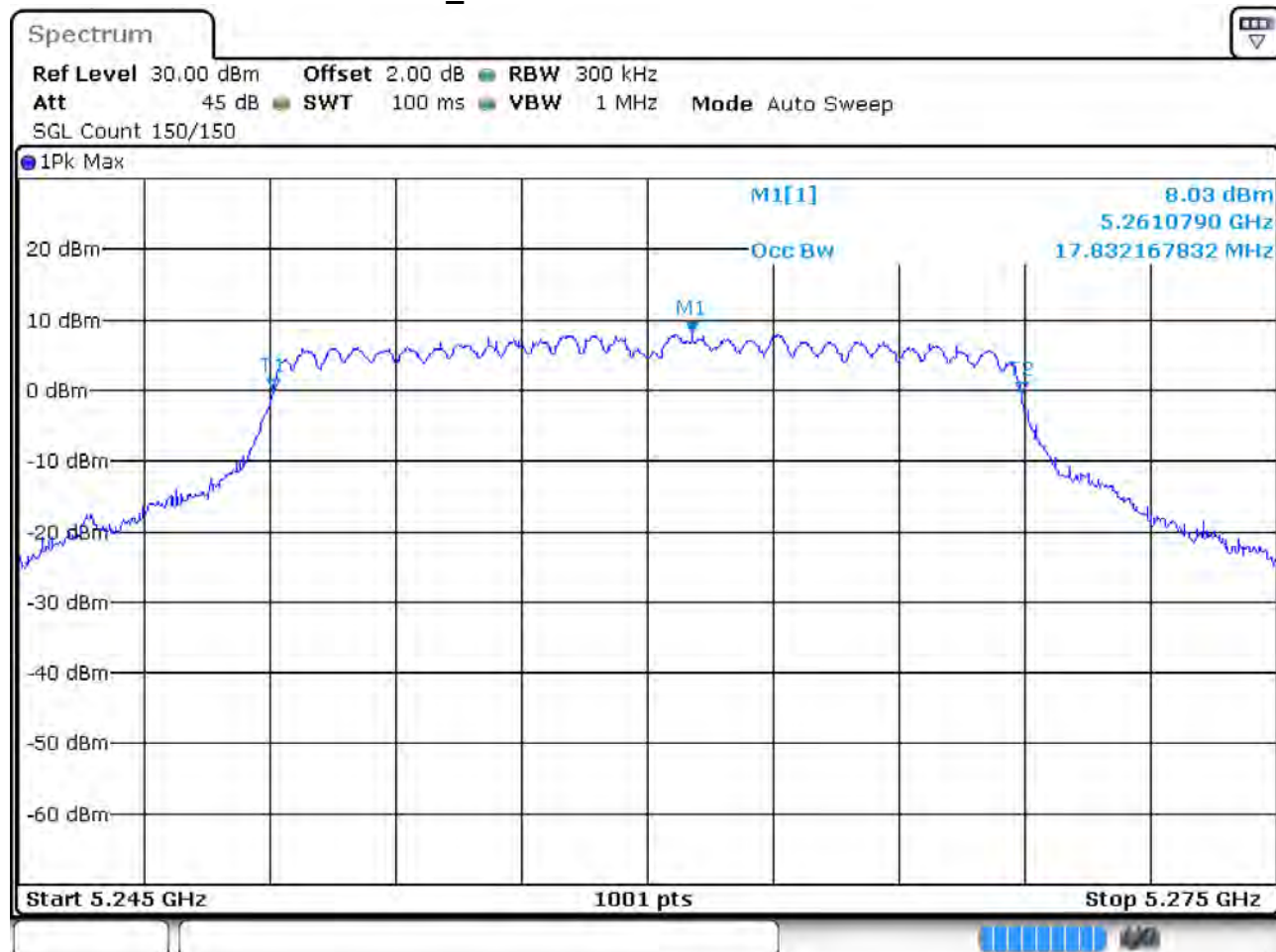


4.7.2.154 11AC20MIMO_52 ANT 2



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4.7.2.155 11AC20MIMO_60 ANT 1



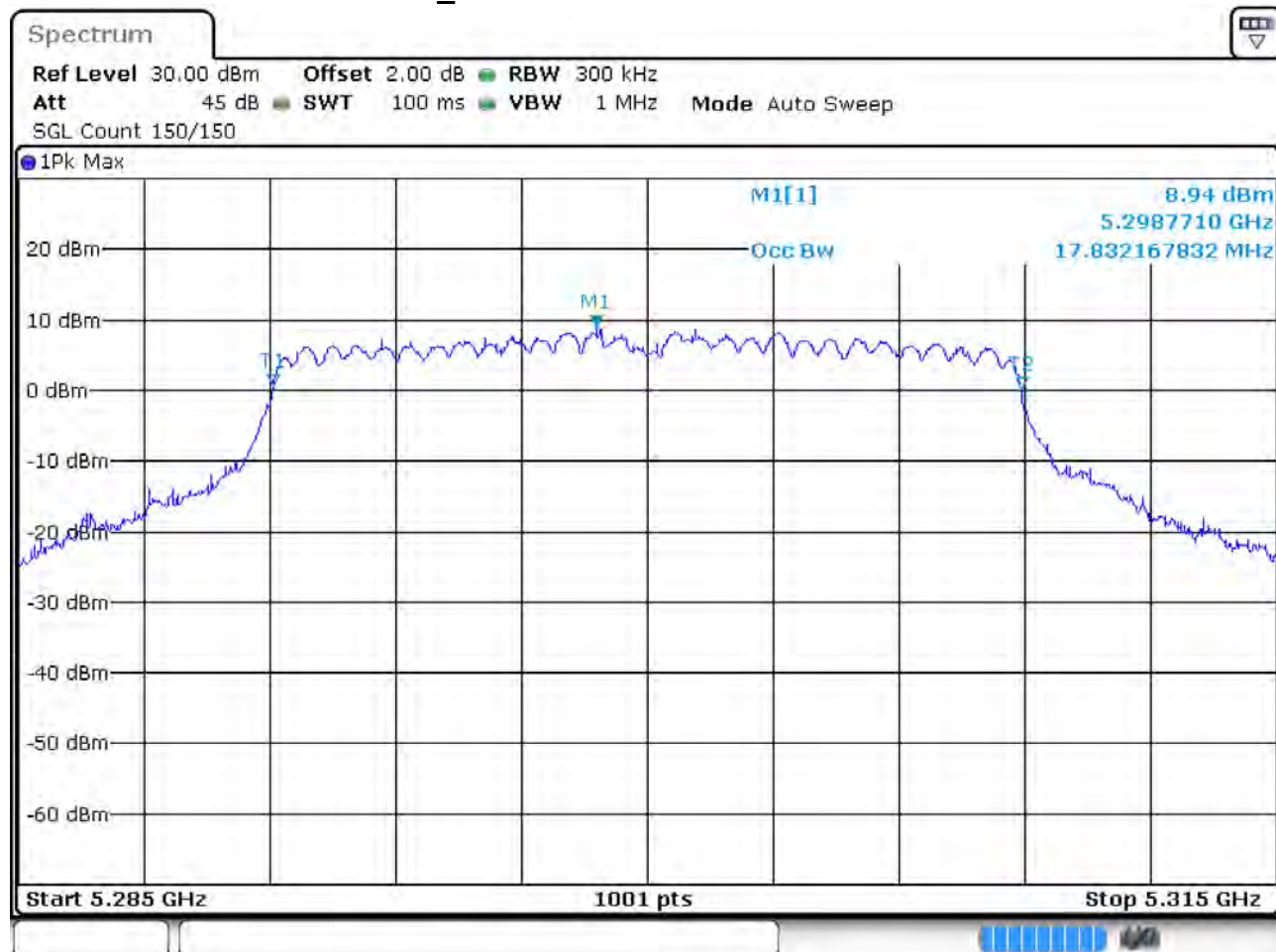
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4.7.2.156 11AC20MIMO_60 ANT 2



Date: 4 JUN 2020 09:36:45

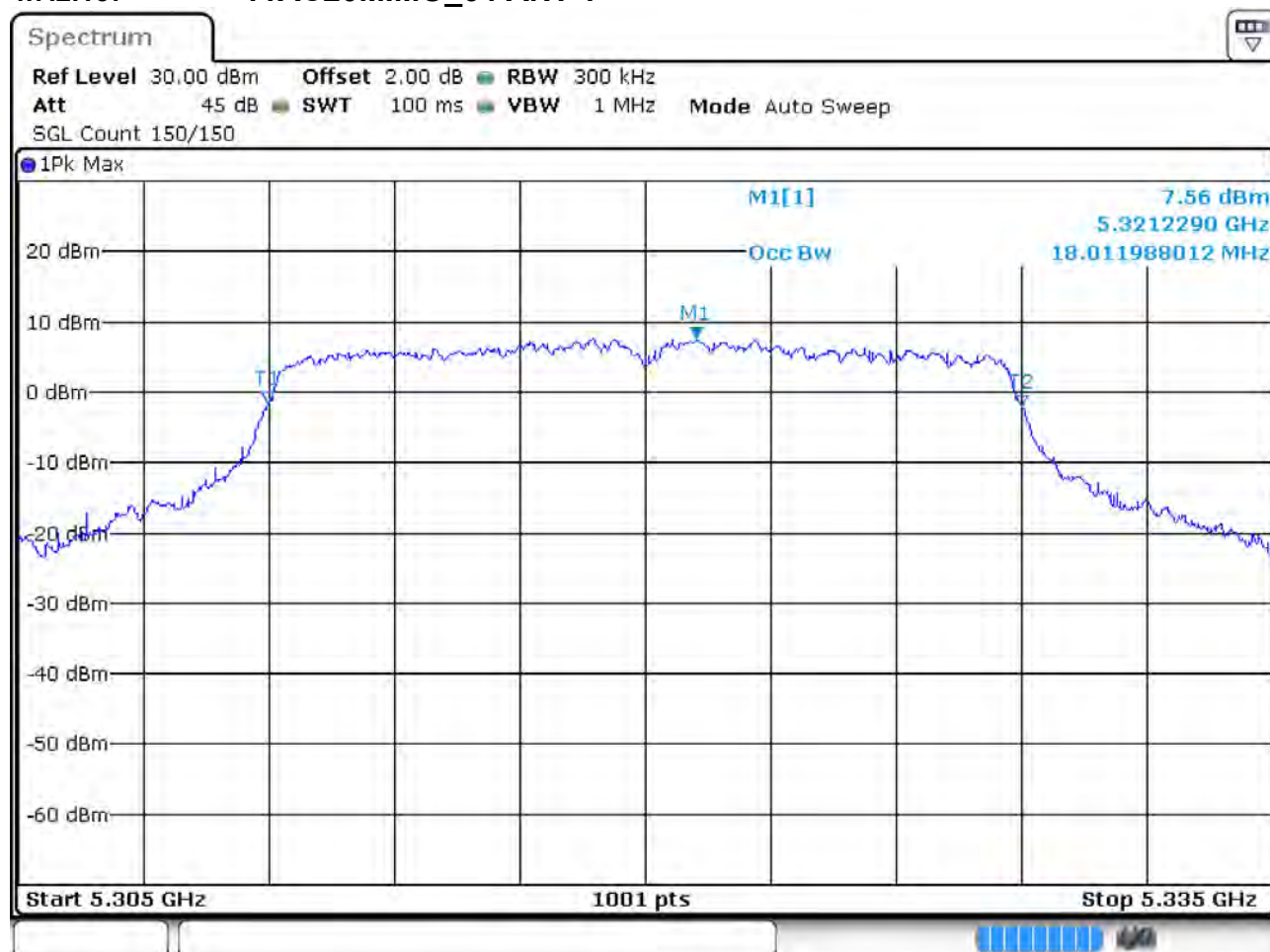


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4.7.2.157 11AC20MIMO_64 ANT 1



Date: 4 JUN 2020 13:11:10



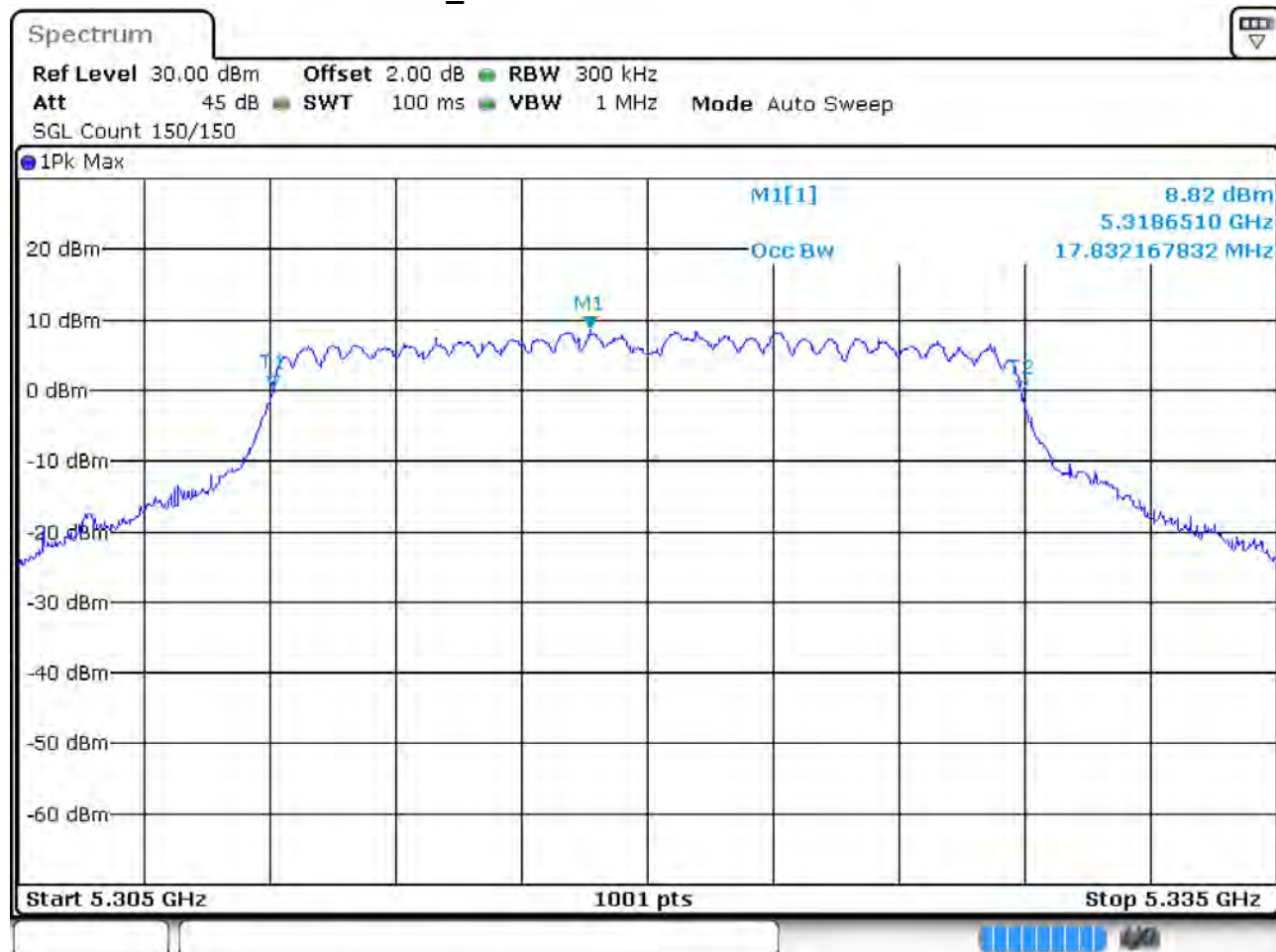
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4.7.2.158

11AC20MIMO_64 ANT 2



Date: 4 JUN 2020 09:38:08

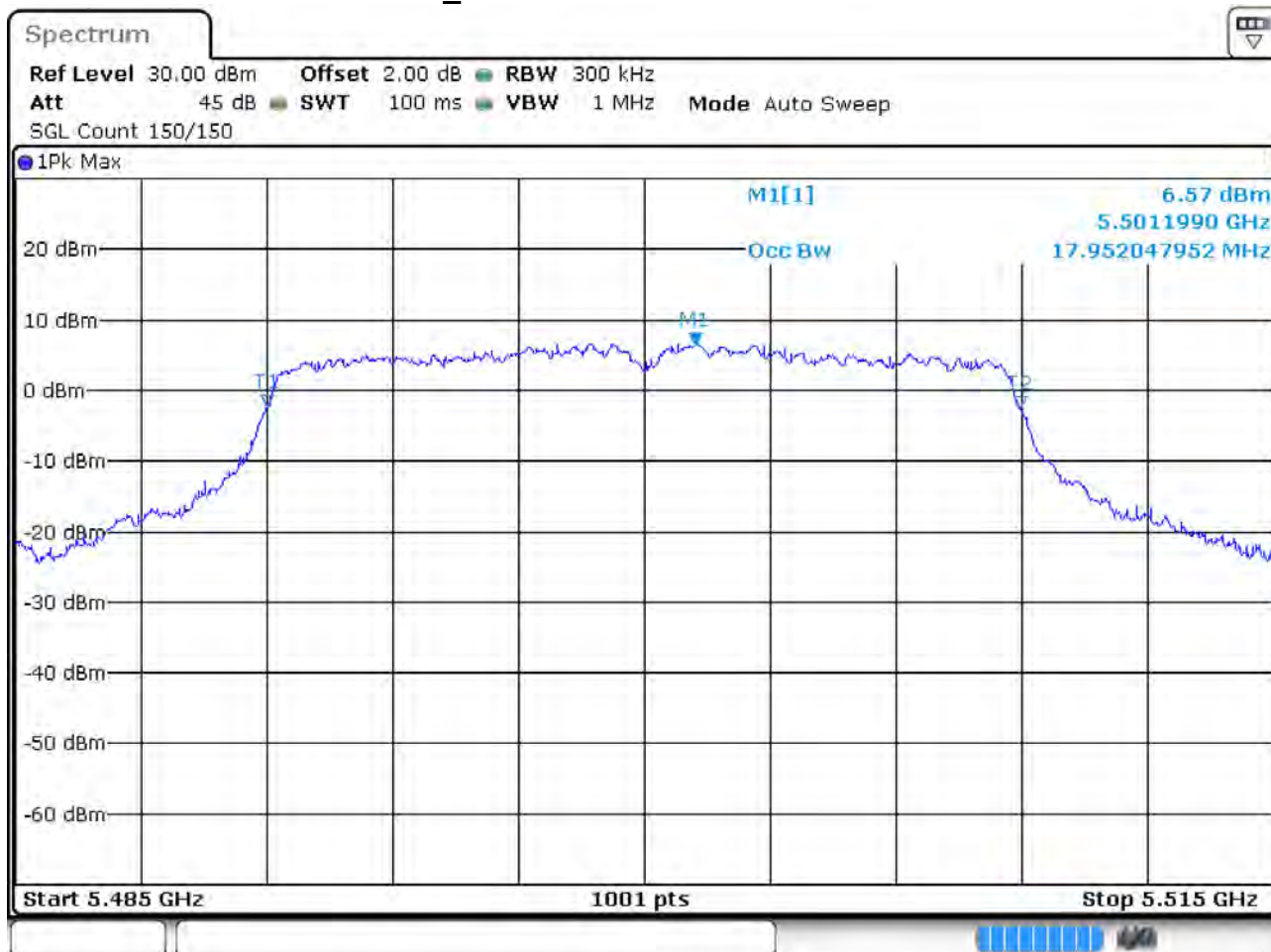


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4.7.2.159 11AC20MIMO_100 ANT 1



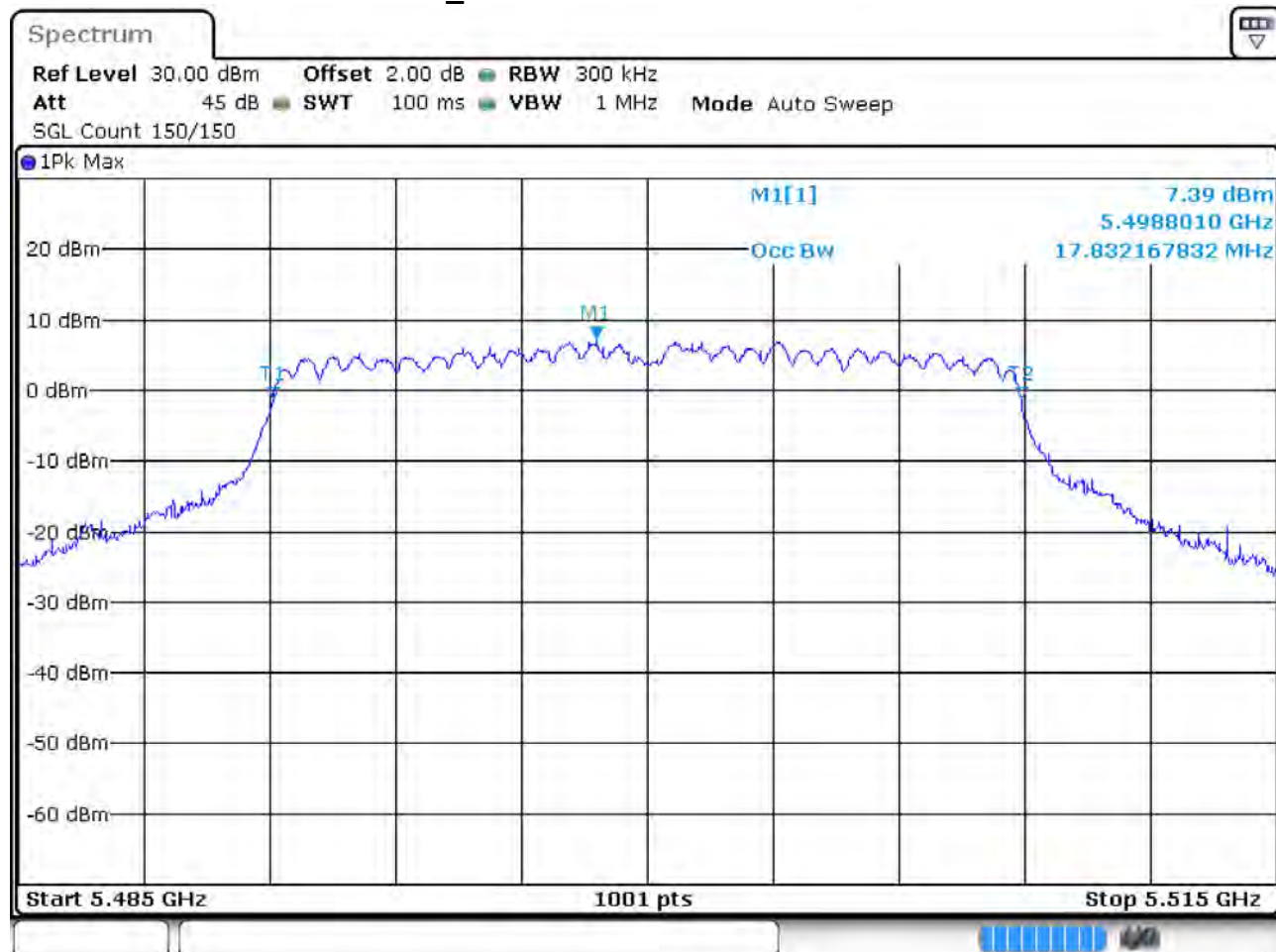
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4.7.2.160 11AC20MIMO_100 ANT 2



Date: 4 JUN 2020 09:39:51



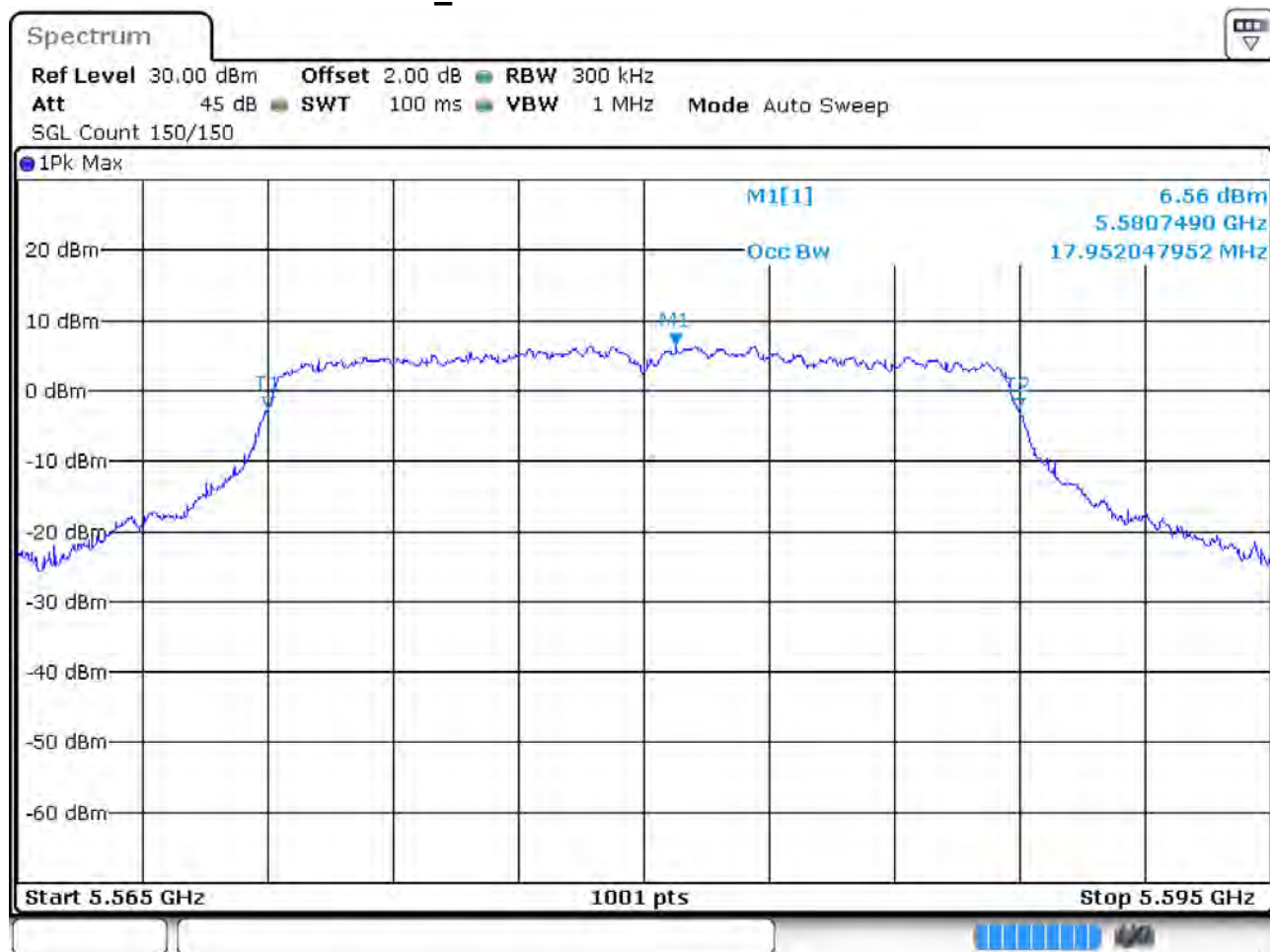
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4.7.2.161

11AC20MIMO_116 ANT 1



Date: 4, JUN, 2020 13:13:58

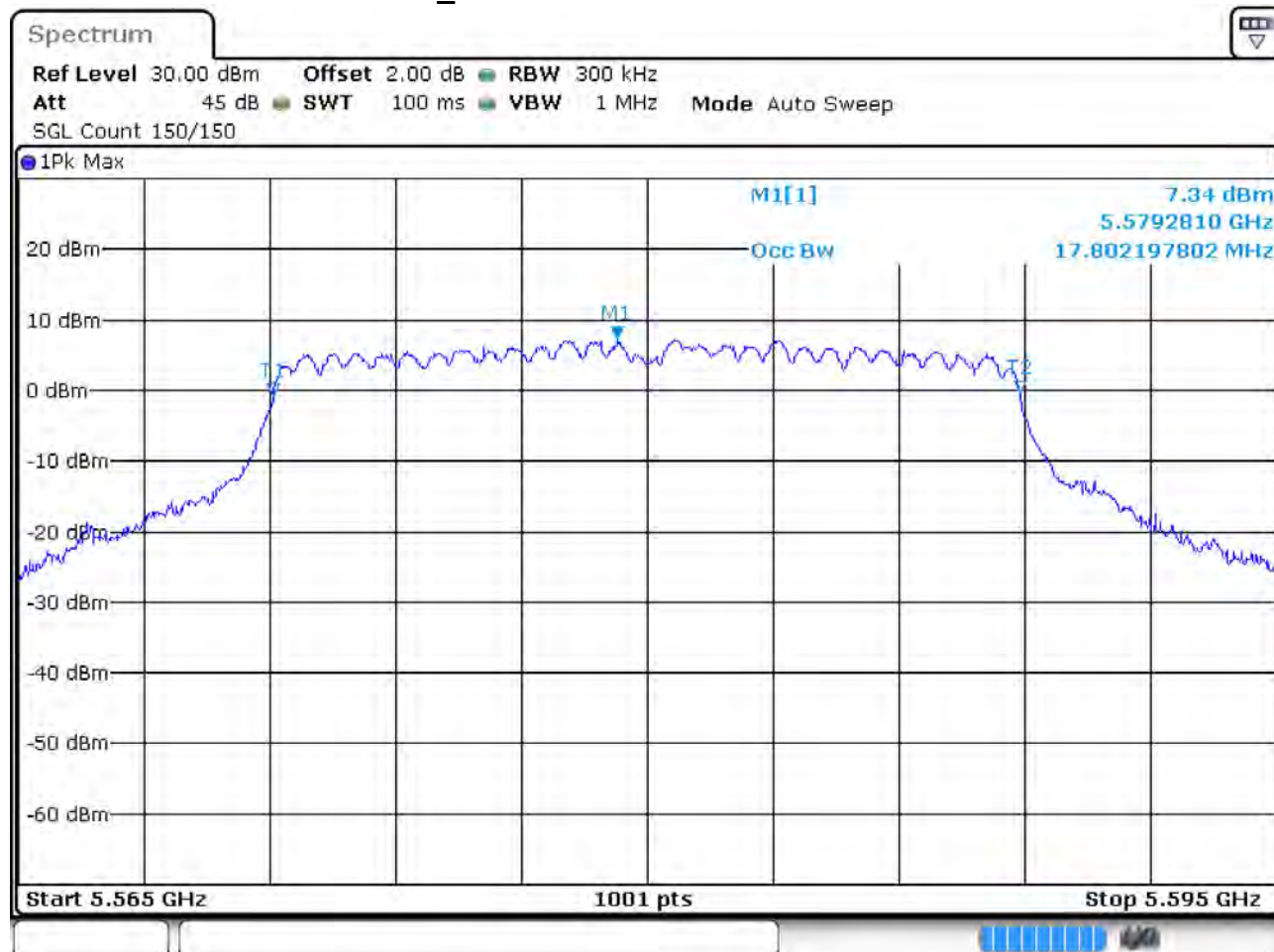


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4.7.2.162 11AC20MIMO_116 ANT 2



Date: 4 JUN 2020 09:43:25

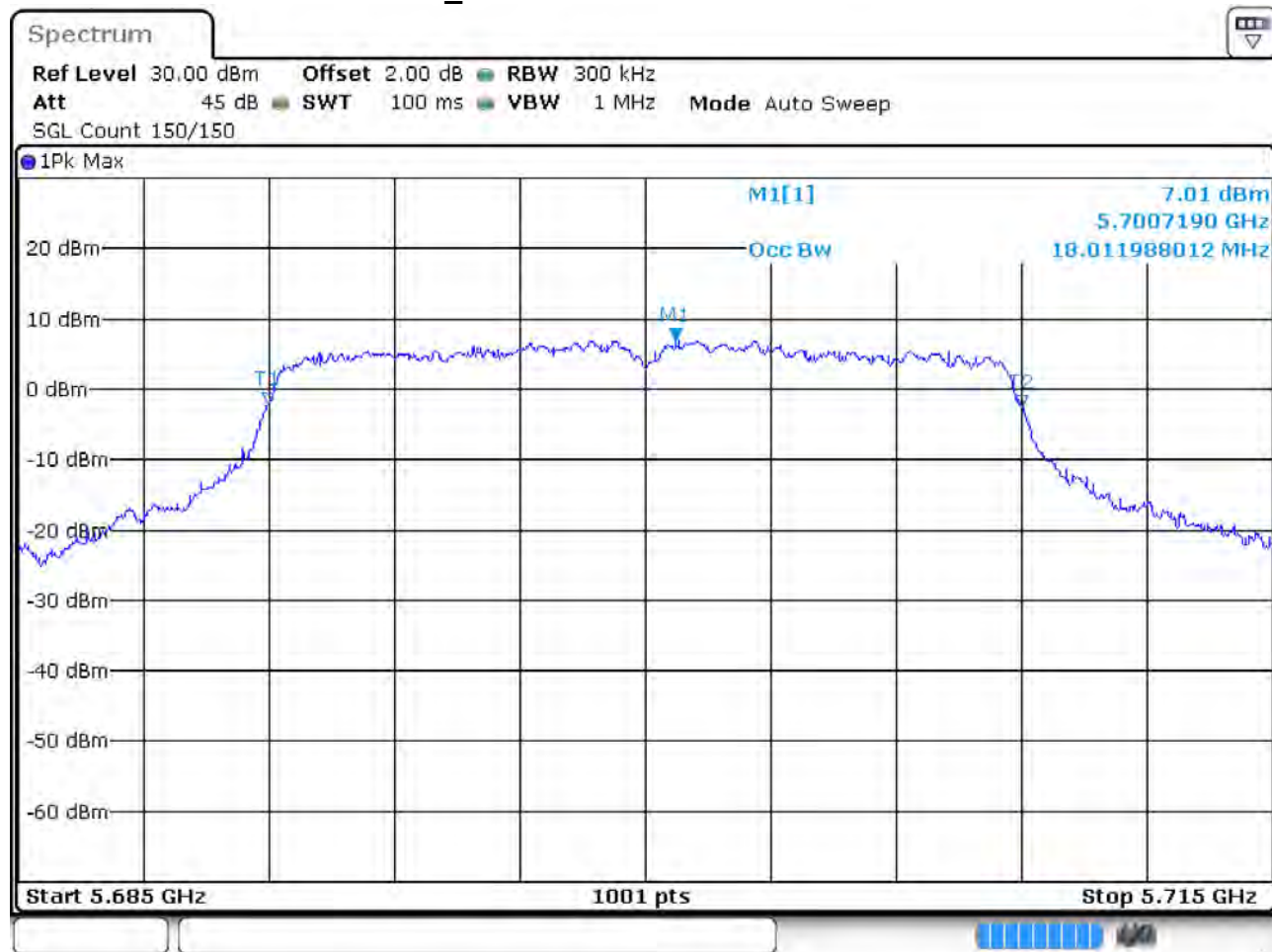


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4.7.2.163 11AC20MIMO_140 ANT 1



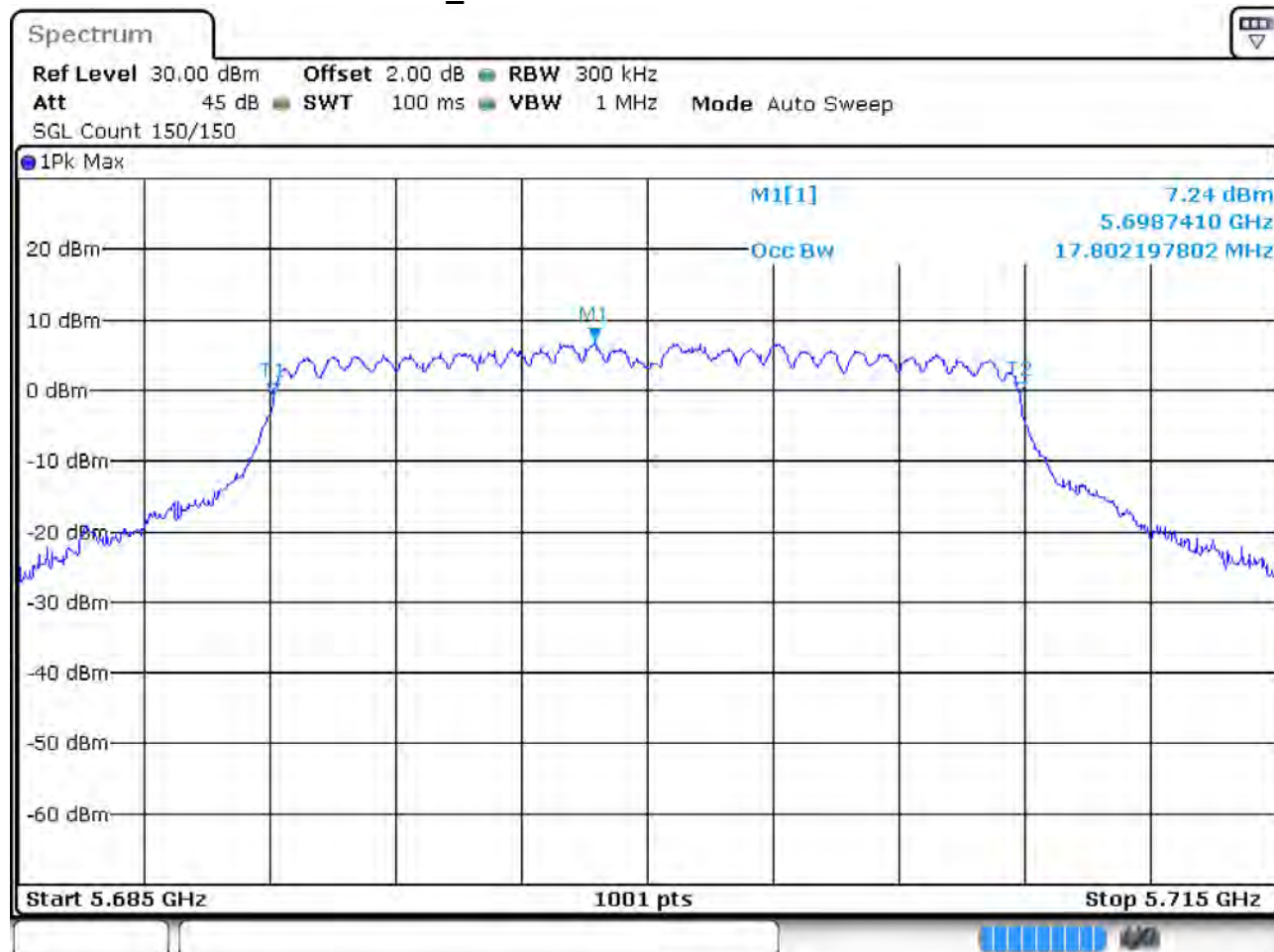
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4.7.2.164 11AC20MIMO_140 ANT 2



Date: 4 JUN 2020 09:44:56

4.7.2.165 11AC20MIMO_144 ANT 1

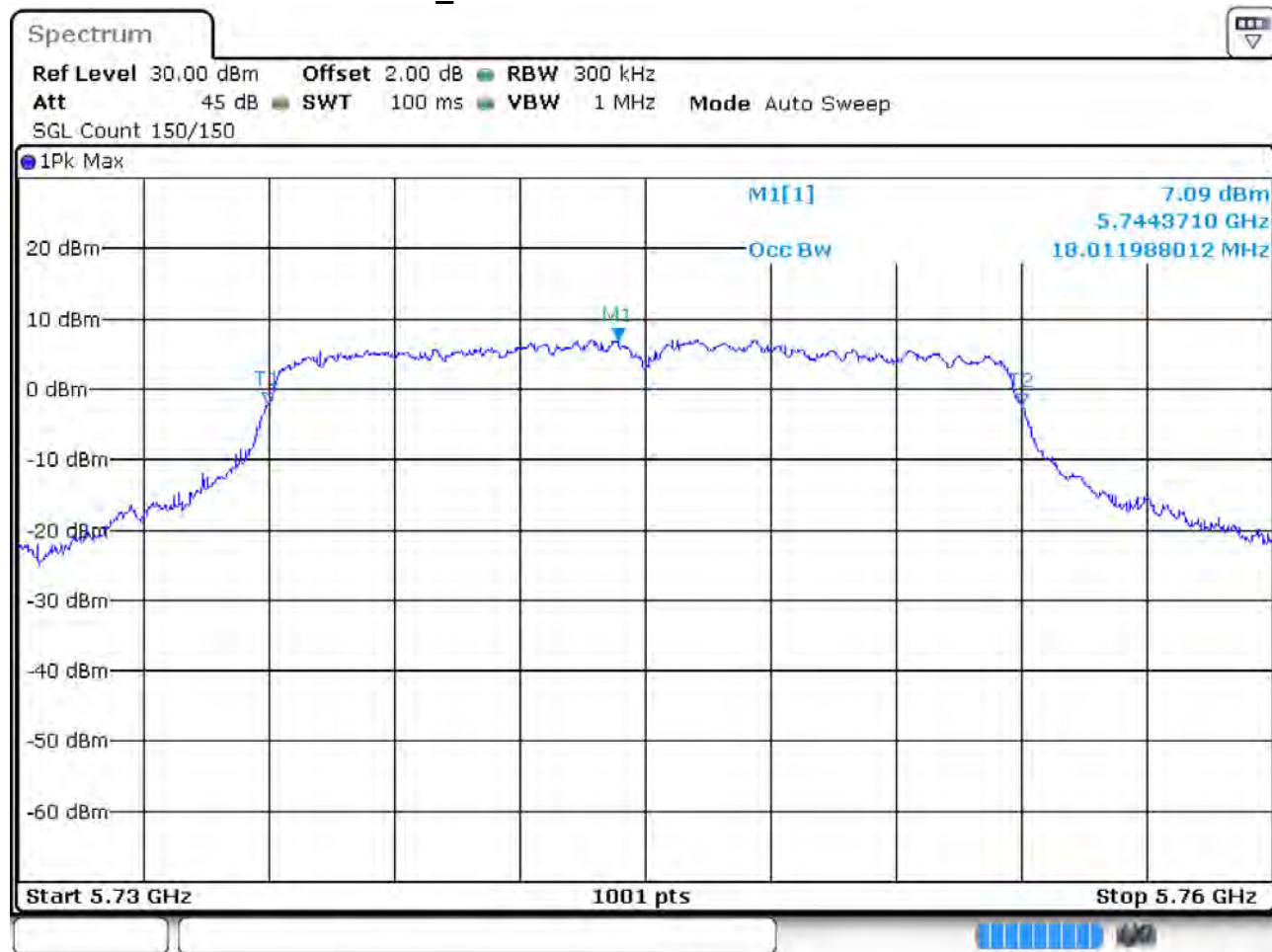
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4.7.2.166 11AC20MIMO_149 ANT 1



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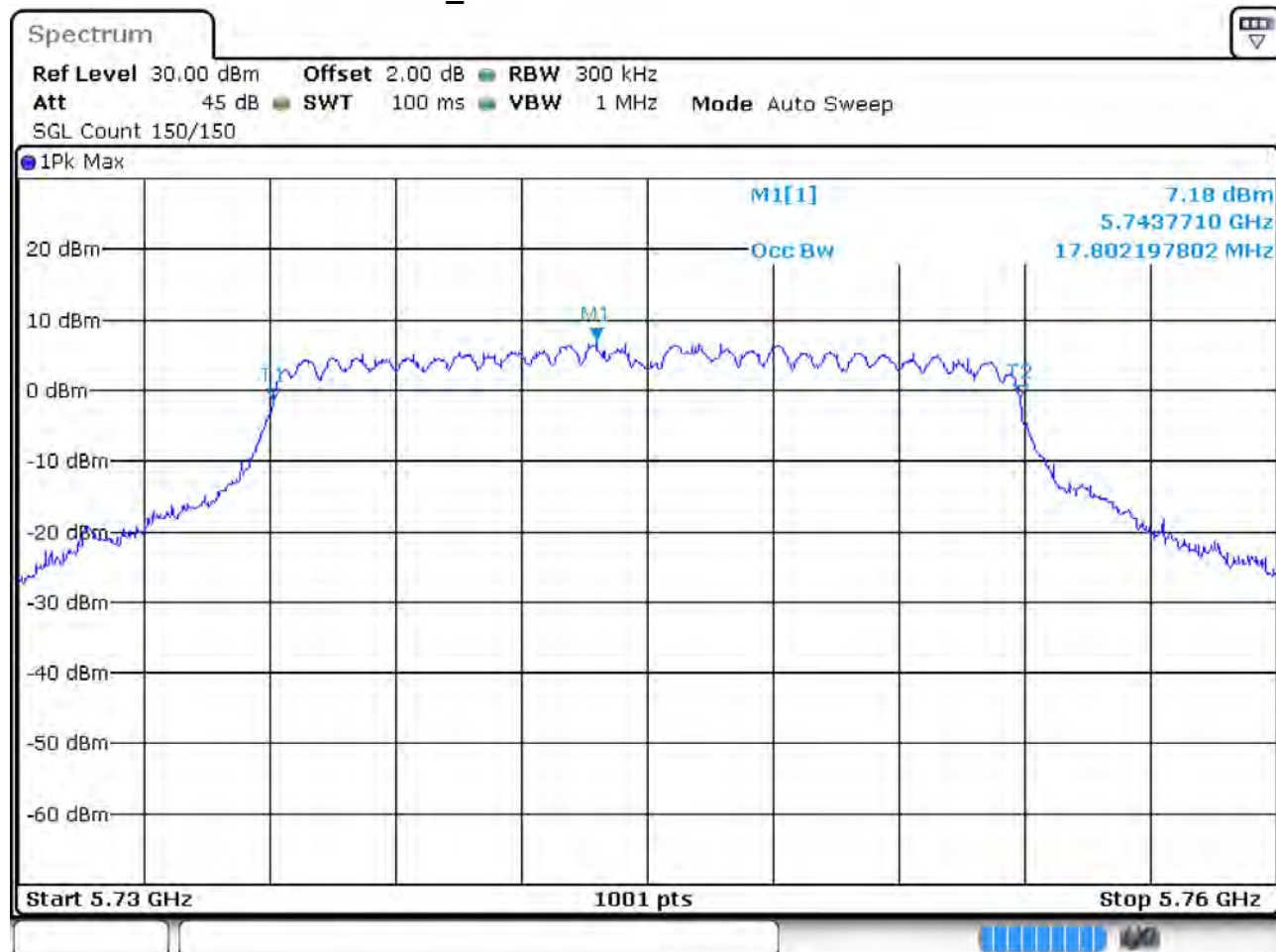


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4.7.2.167 11AC20MIMO_149 ANT 2



Date: 4 JUN 2020 09:46:30



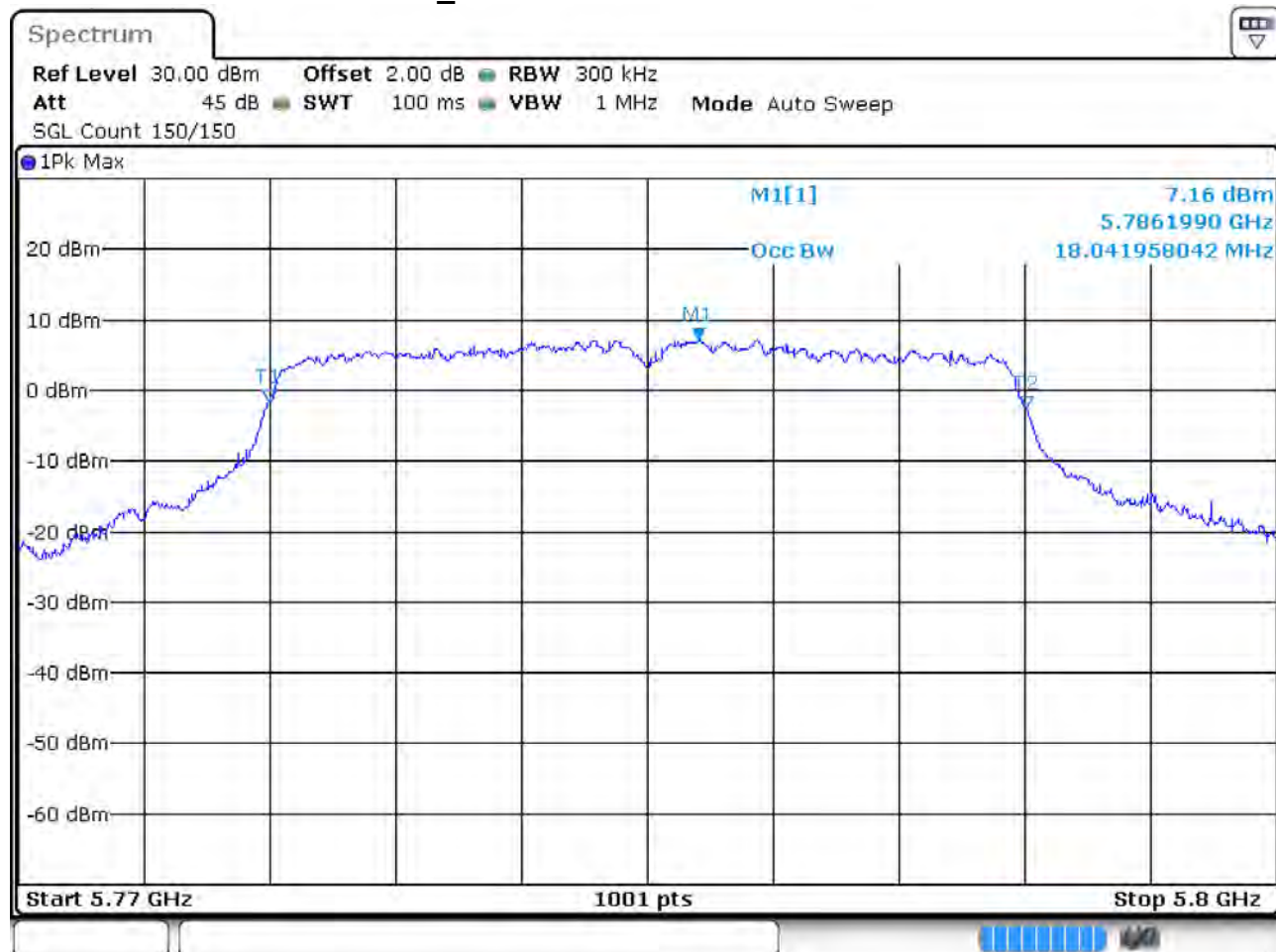
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4.7.2.168

11AC20MIMO_157 ANT 1



Date: 4 JUN 2020 13:18:20



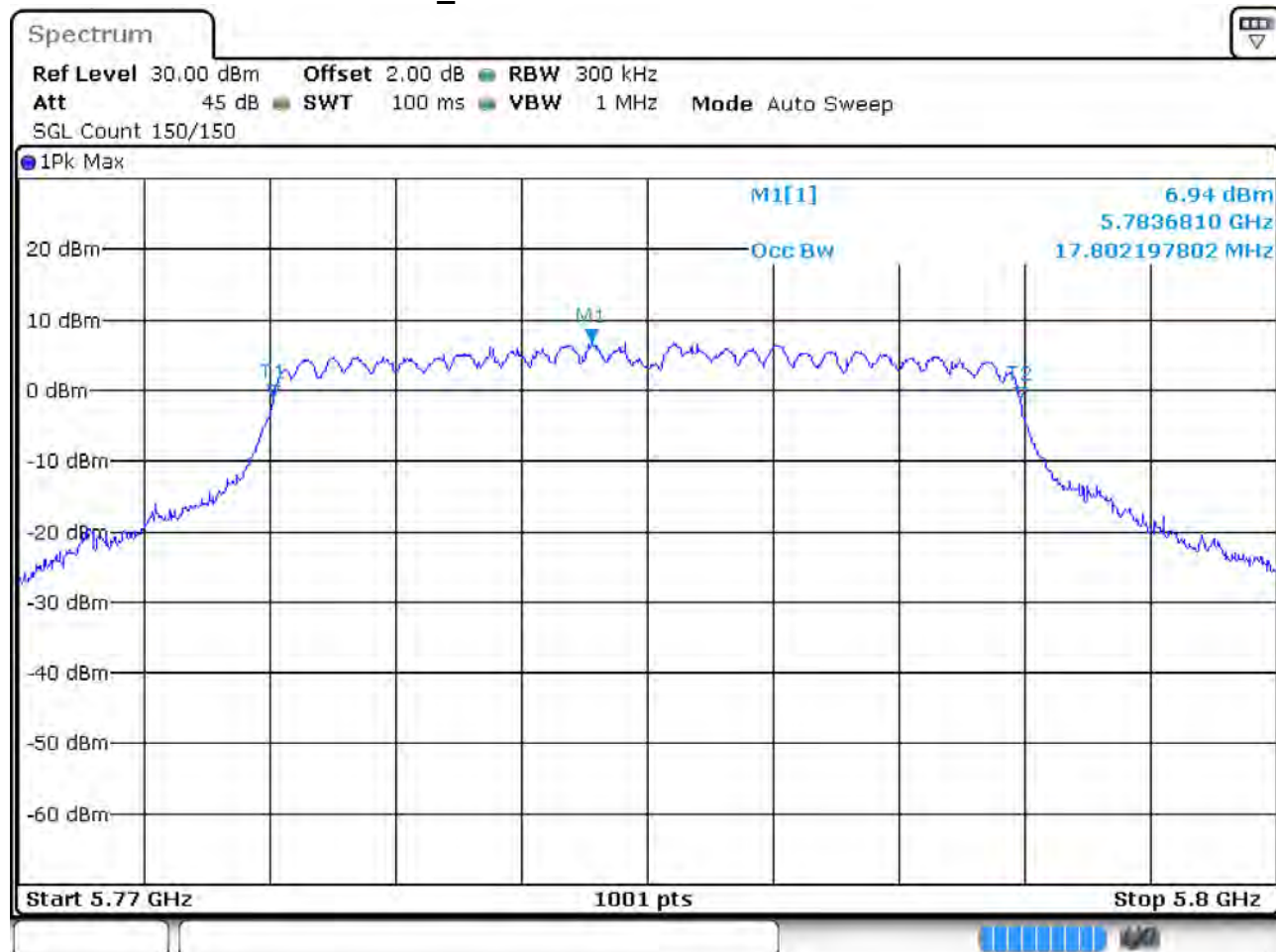
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4.7.2.169

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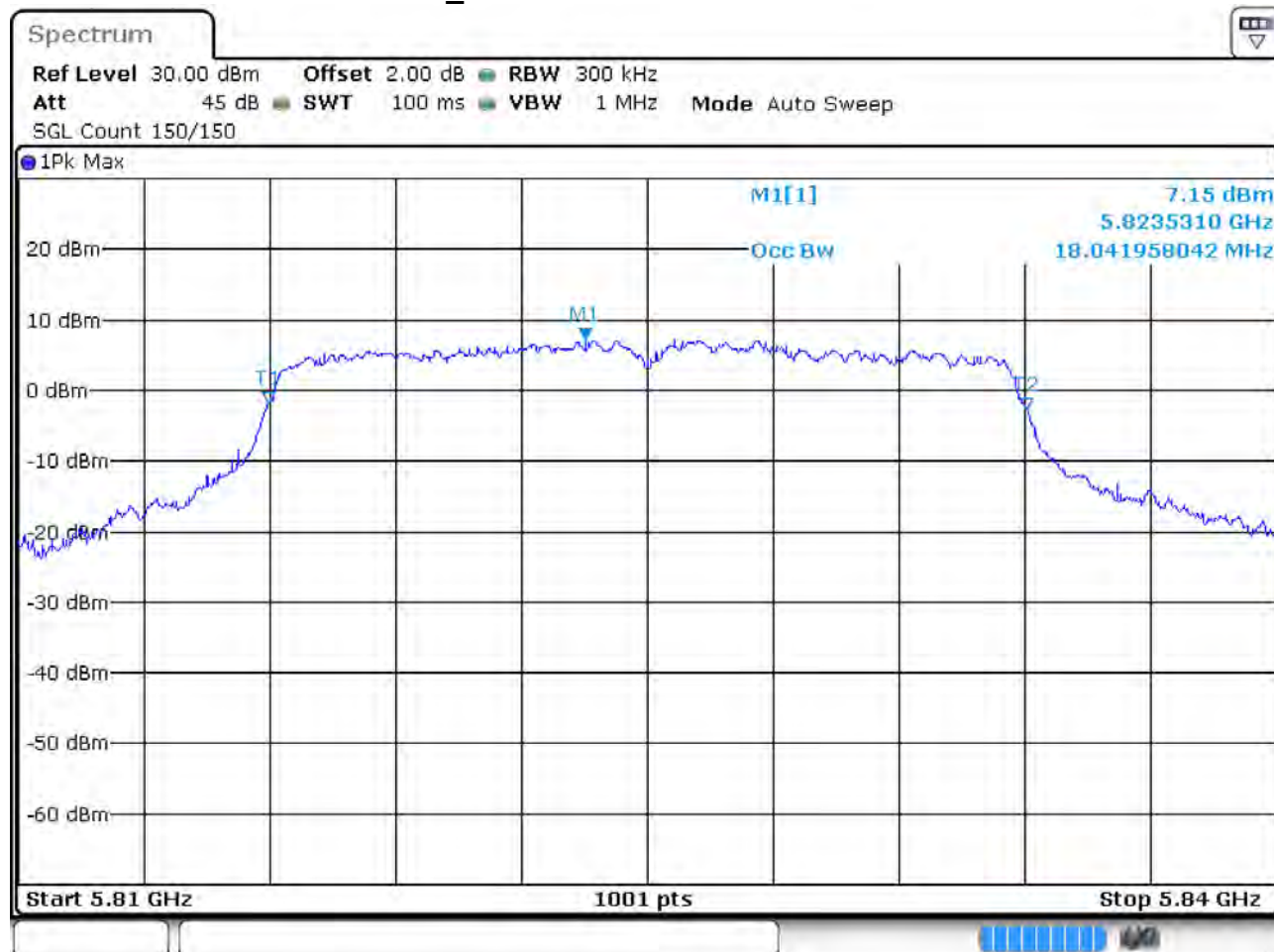


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4.7.2.170 11AC20MIMO_165 ANT 1



Date: 4 JUN 2020 13:20:11

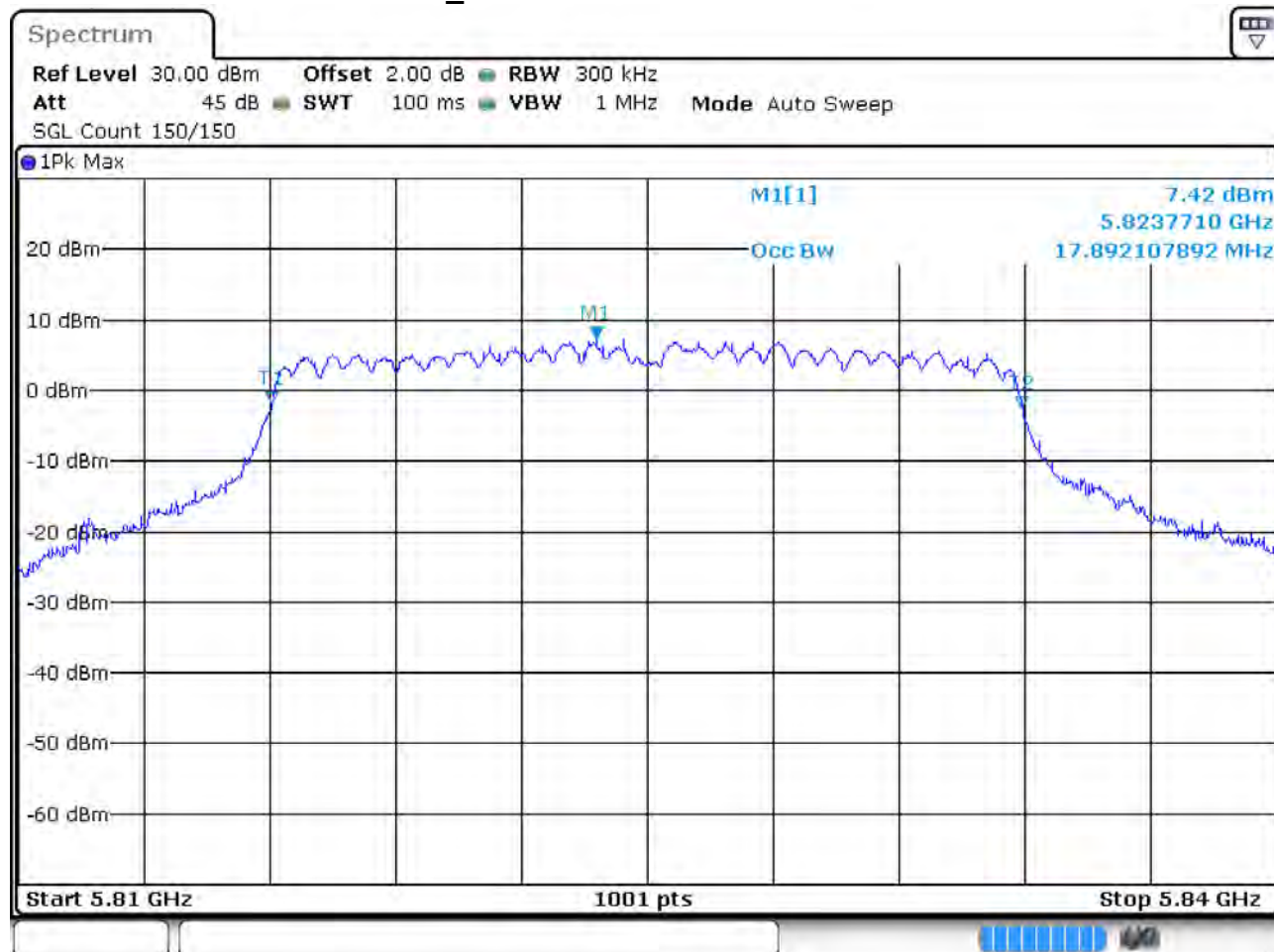


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4.7.2.171 11AC20MIMO_165 ANT 2



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4.7.2.172 11AC40_38 ANT 1



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4.7.2.173 11AC40_38 ANT 2



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4.7.2.174 11AC40_46 ANT 1



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4.7.2.175 11AC40_46 ANT 2



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4.7.2.176 11AC40_54 ANT 1



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4.7.2.177 11AC40_54 ANT 2



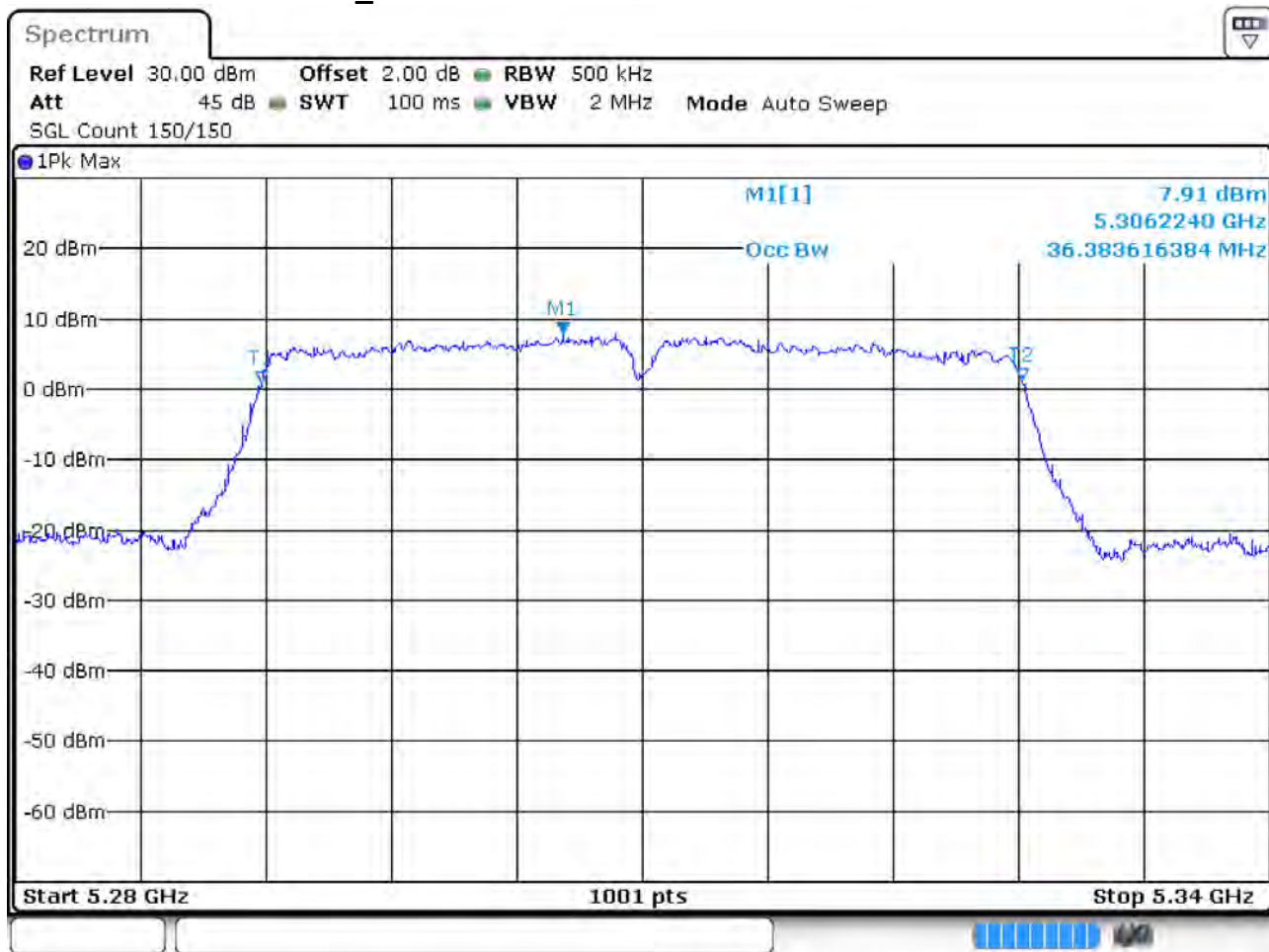
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4.7.2.178 11AC40_62 ANT 1



Date: 5 JUN 2020 04:20:55

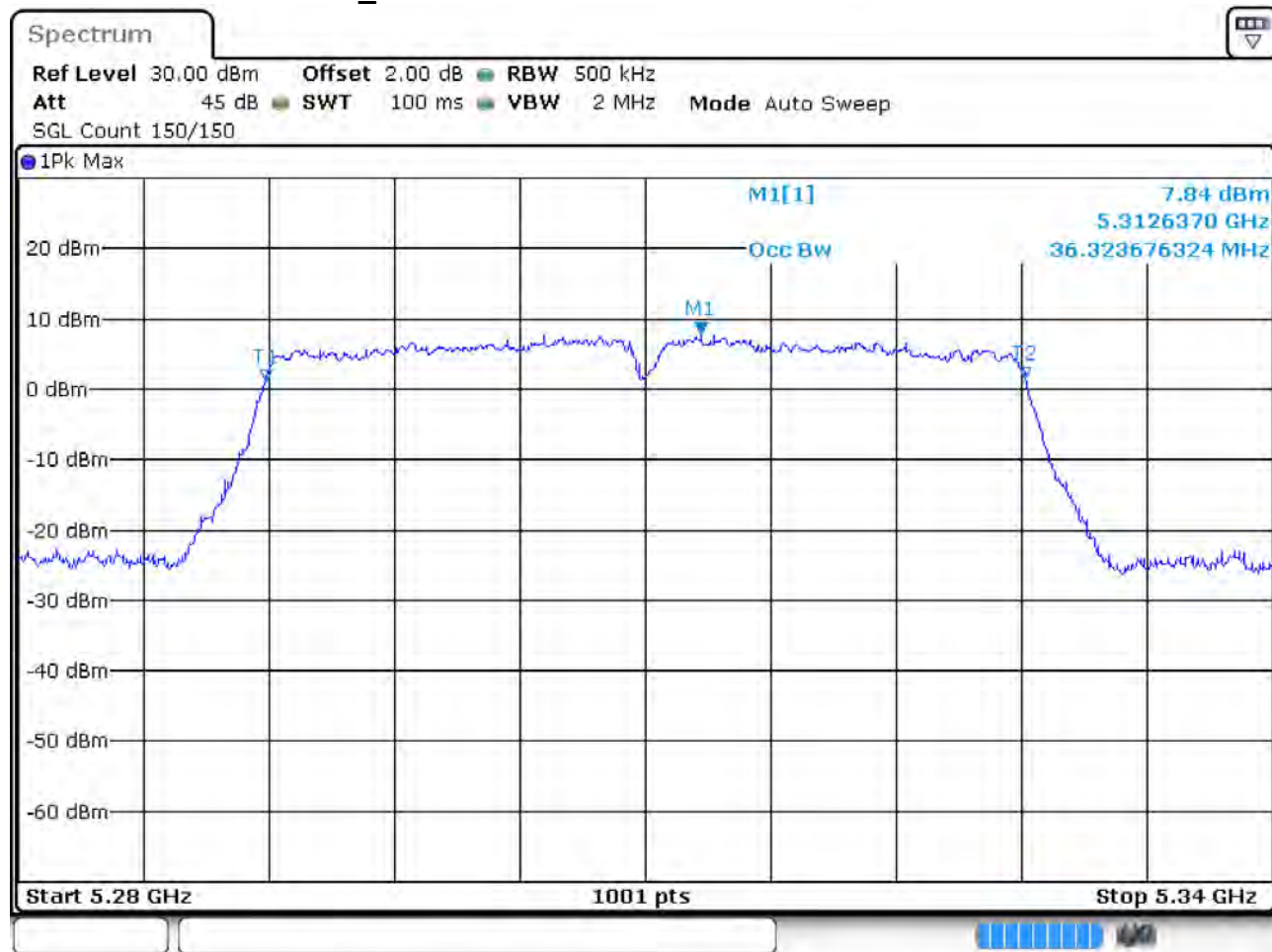


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4.7.2.179 11AC40_62 ANT 2



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4.7.2.180 11AC40_102 ANT 1



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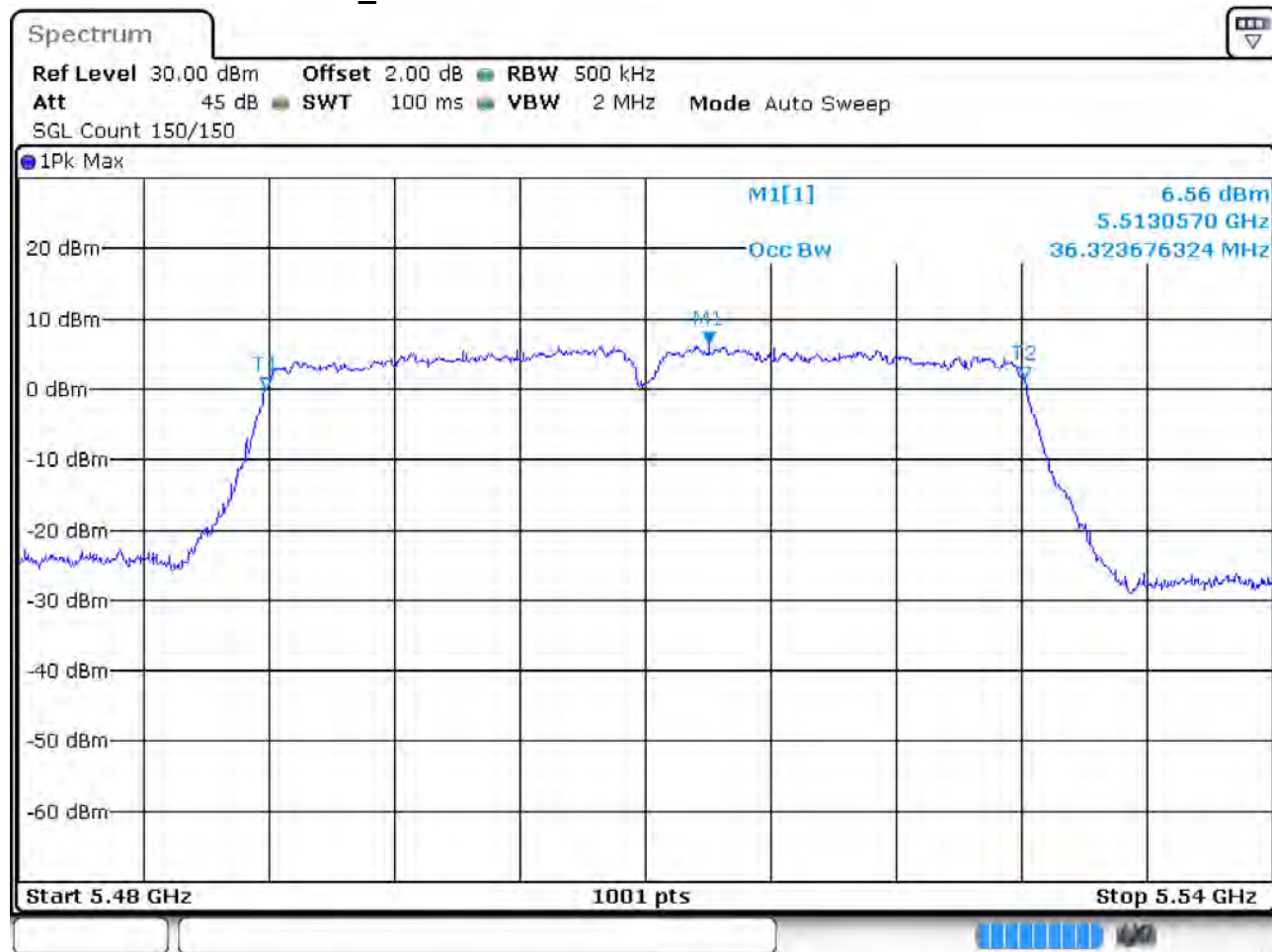


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4.7.2.181 11AC40_102 ANT 2



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4.7.2.182 11AC40_110 ANT 1



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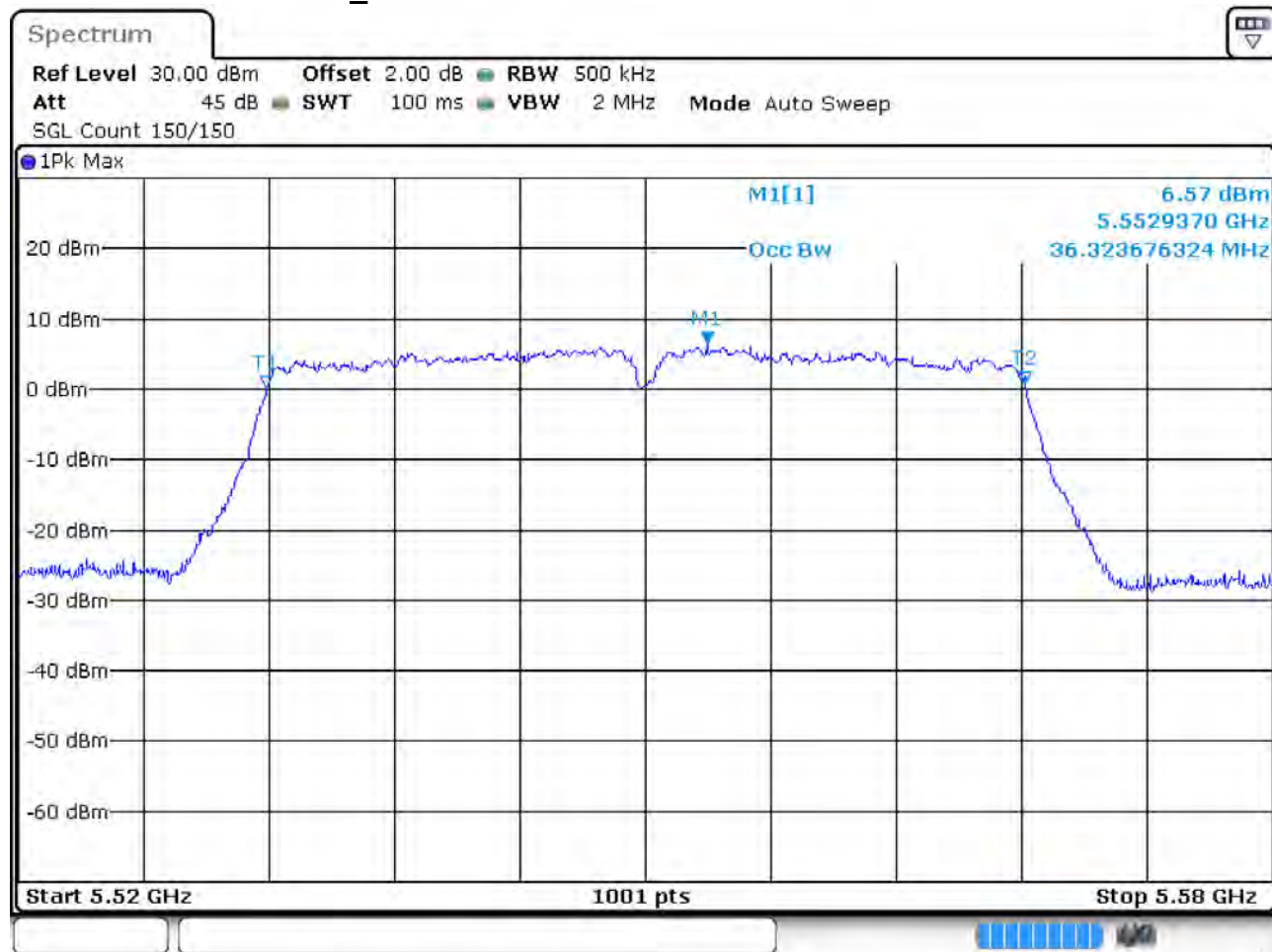


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4.7.2.183 11AC40_110 ANT 2



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4.7.2.184 11AC40_134 ANT 1



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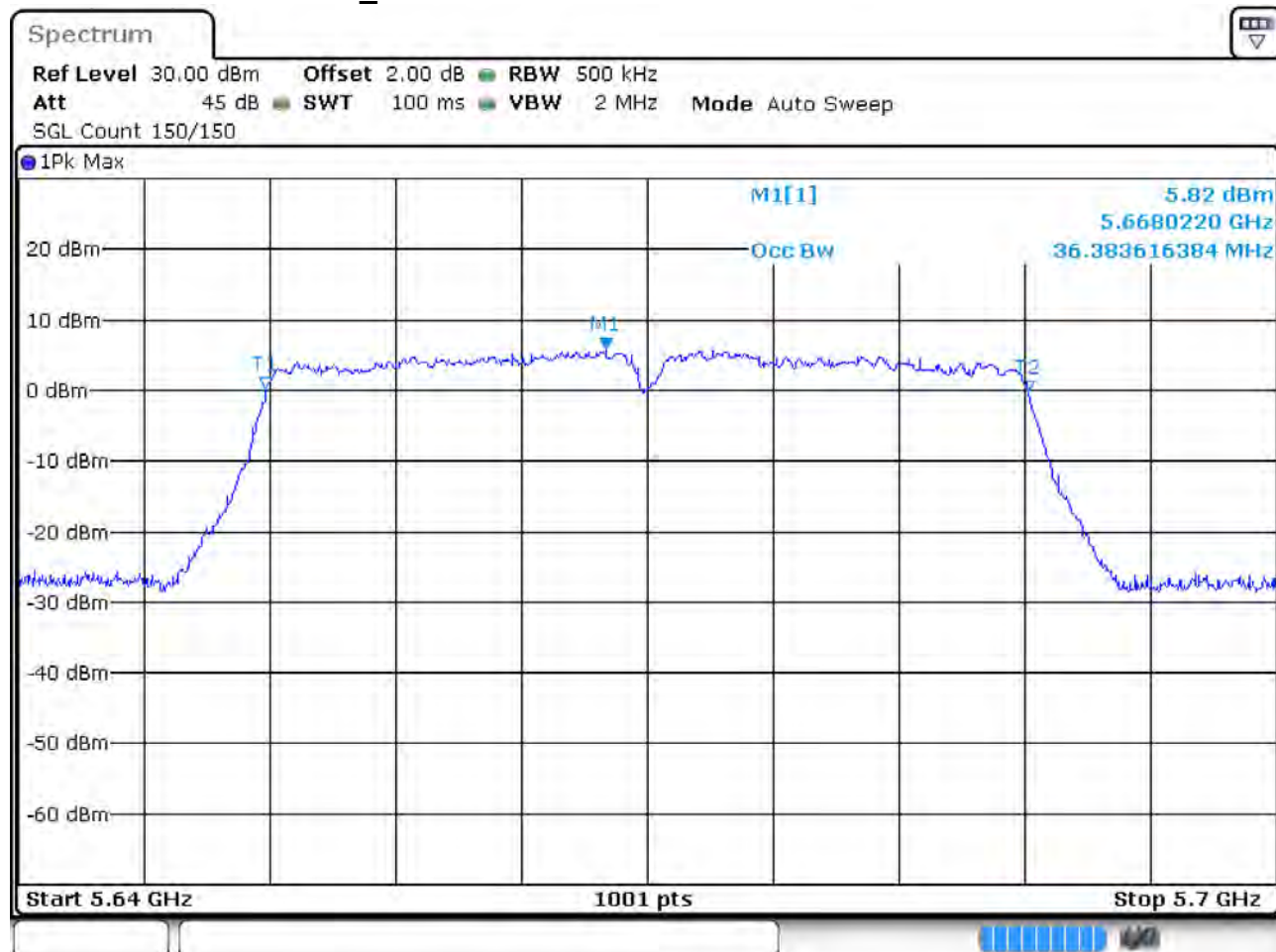


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4.7.2.185 11AC40_134 ANT 2



Date: 4 JUN 2020 07:29:23

4.7.2.186 11AC40_142 ANT 1 OBW_NTNV-11AC40-MCS0-5710-ANTA-Pic

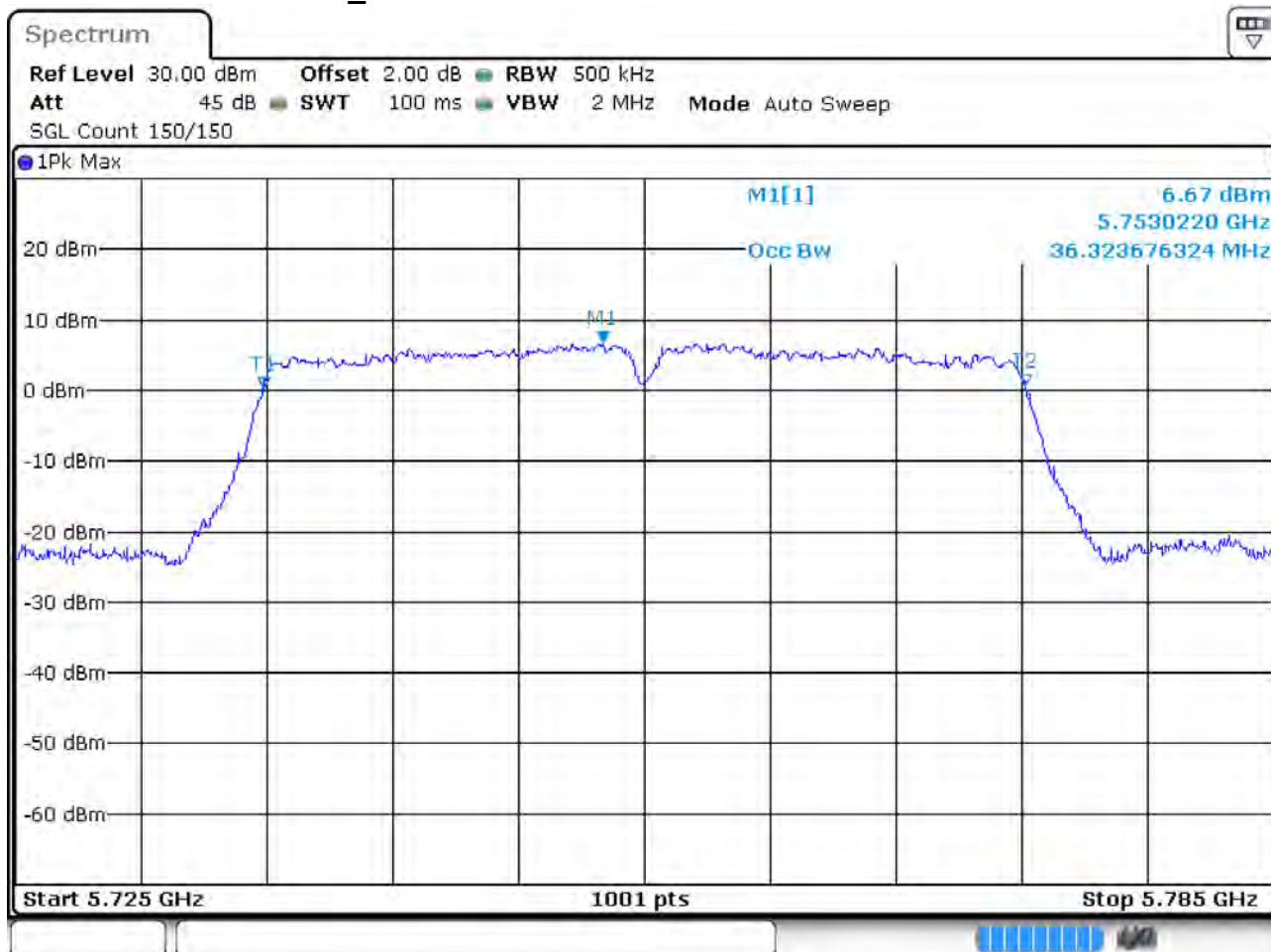


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4.7.2.187 11AC40_151 ANT 1



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4.7.2.188 11AC40_151 ANT 2



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4.7.2.189 11AC40_159 ANT 1



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4.7.2.190 11AC40_159 ANT 2



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4.7.2.191 11AC40MIMO_38 ANT 1



Date: 4 JUN 2020 13:22:19

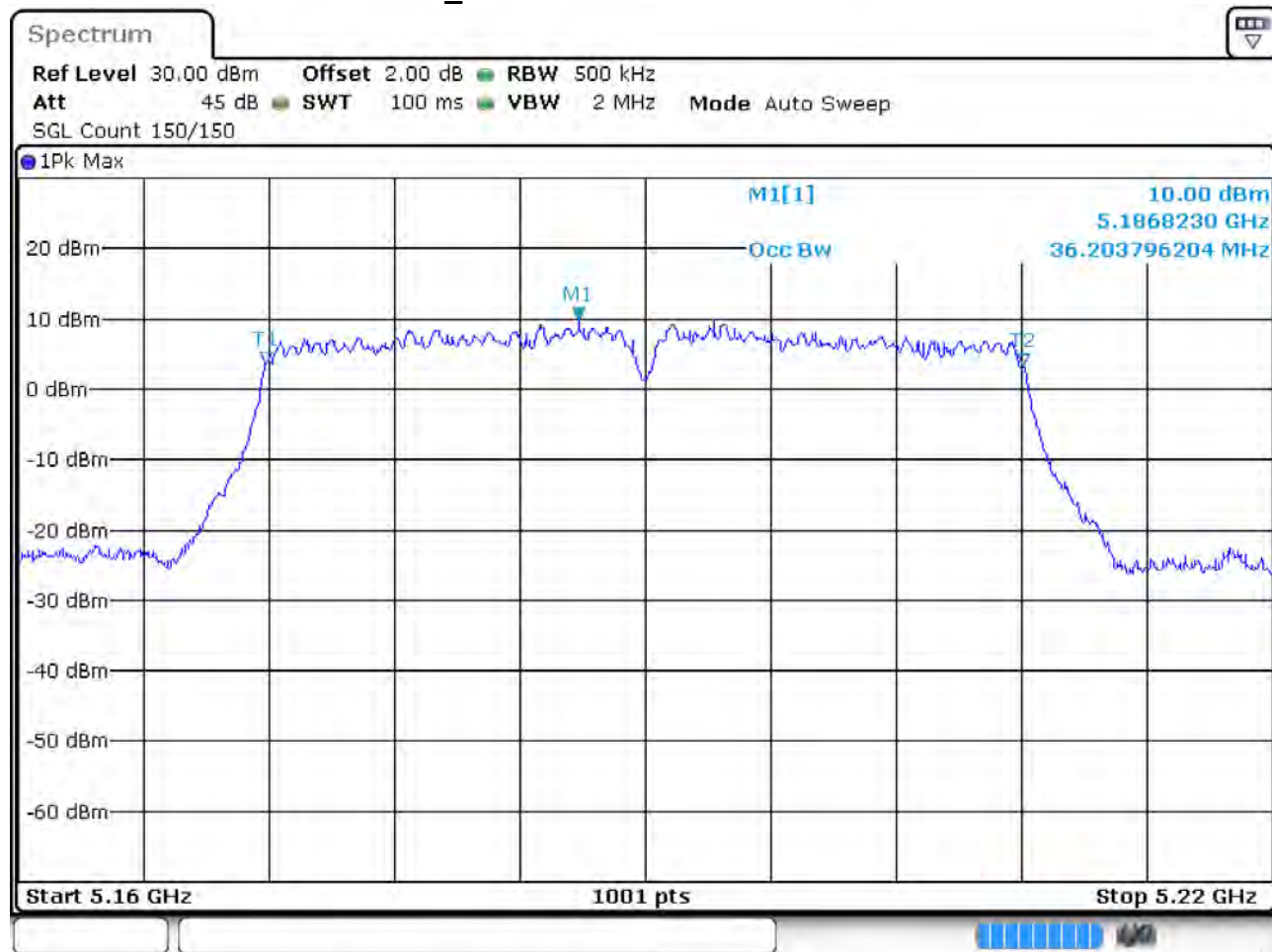


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4.7.2.192 11AC40MIMO_38 ANT 2



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4.7.2.193 11AC40MIMO_46 ANT 1



Date: 4 JUN 2020 13:23:41

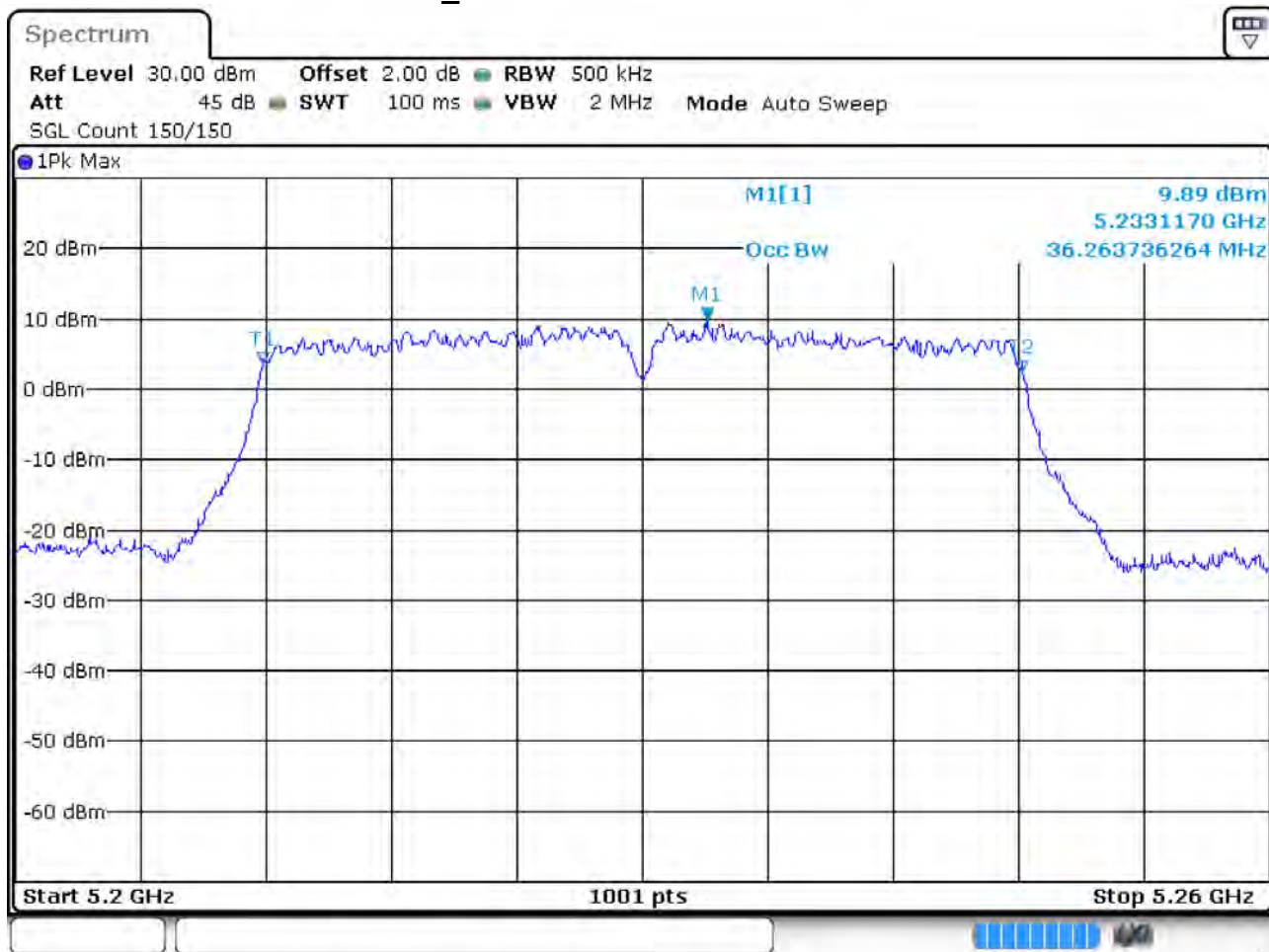


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4.7.2.194 11AC40MIMO_46 ANT 2



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4.7.2.195 11AC40MIMO_54 ANT 1



Date: 4 JUN 2020 13:25:25

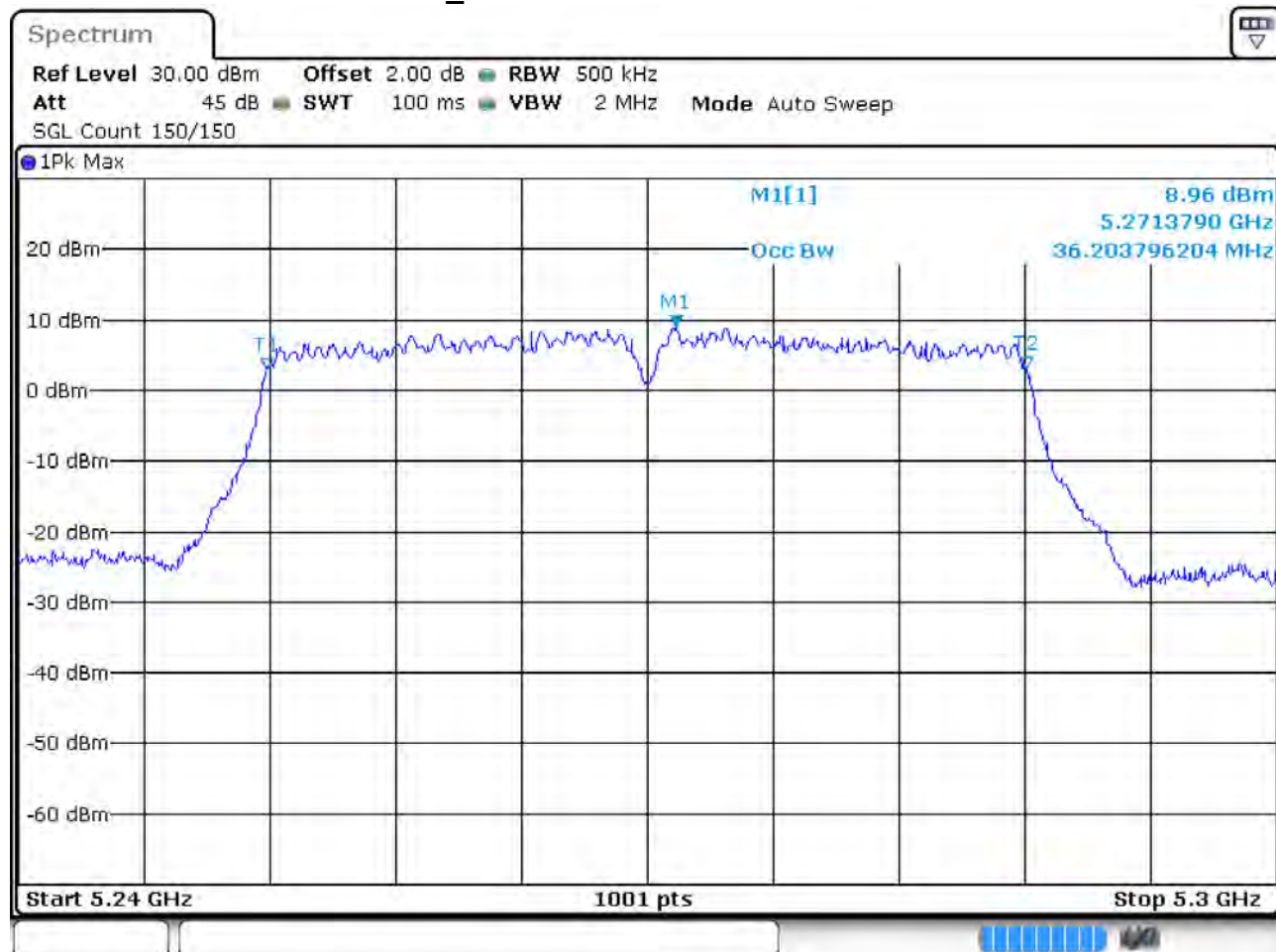


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4.7.2.196 11AC40MIMO_54 ANT 2



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4.7.2.197 11AC40MIMO_62 ANT 1



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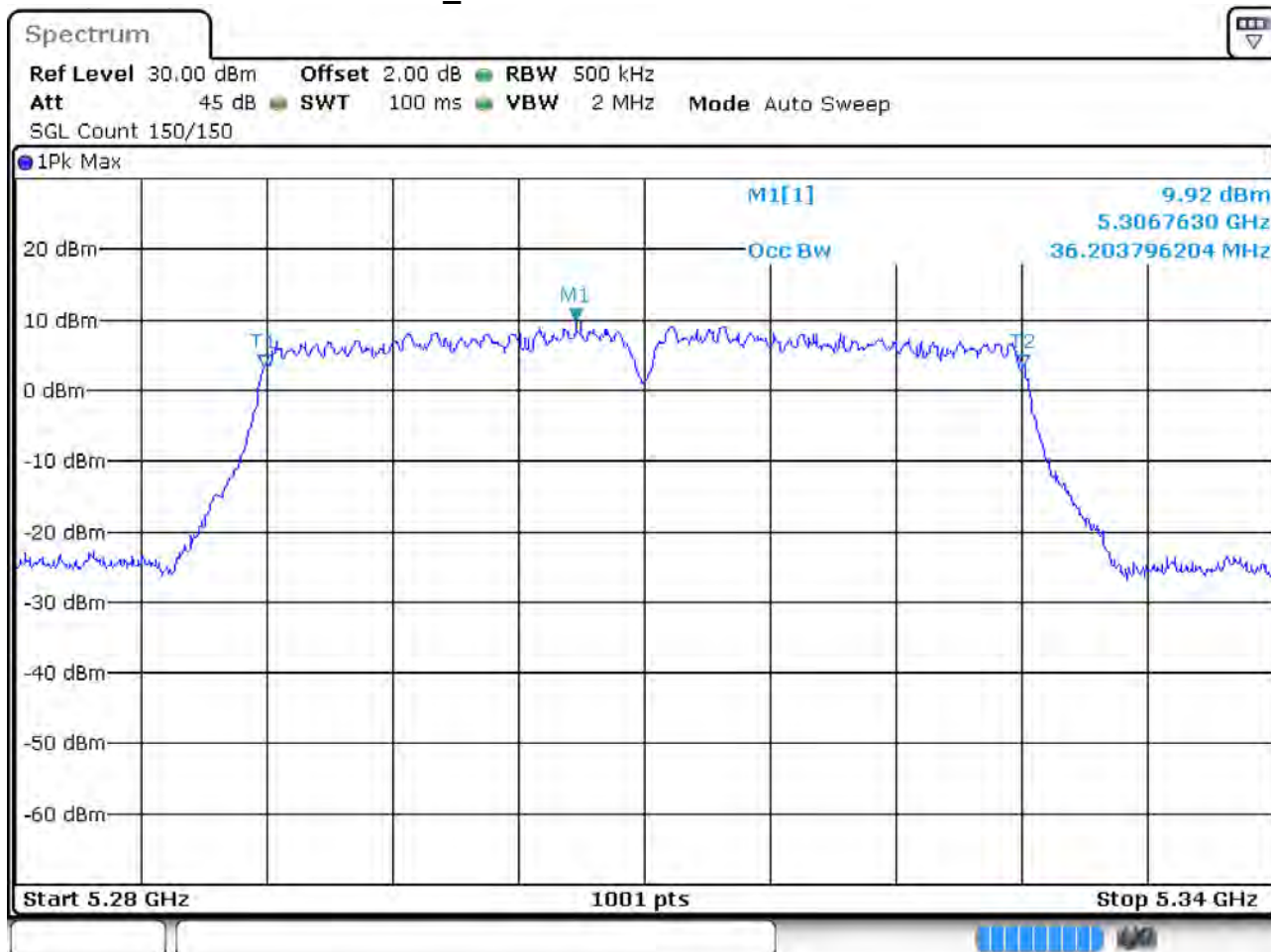


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4.7.2.198 11AC40MIMO_62 ANT 2



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4.7.2.199 11AC40MIMO_102 ANT 1



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4.7.2.200 11AC40MIMO_102 ANT 2



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4.7.2.201

11AC40MIMO_110 ANT 1



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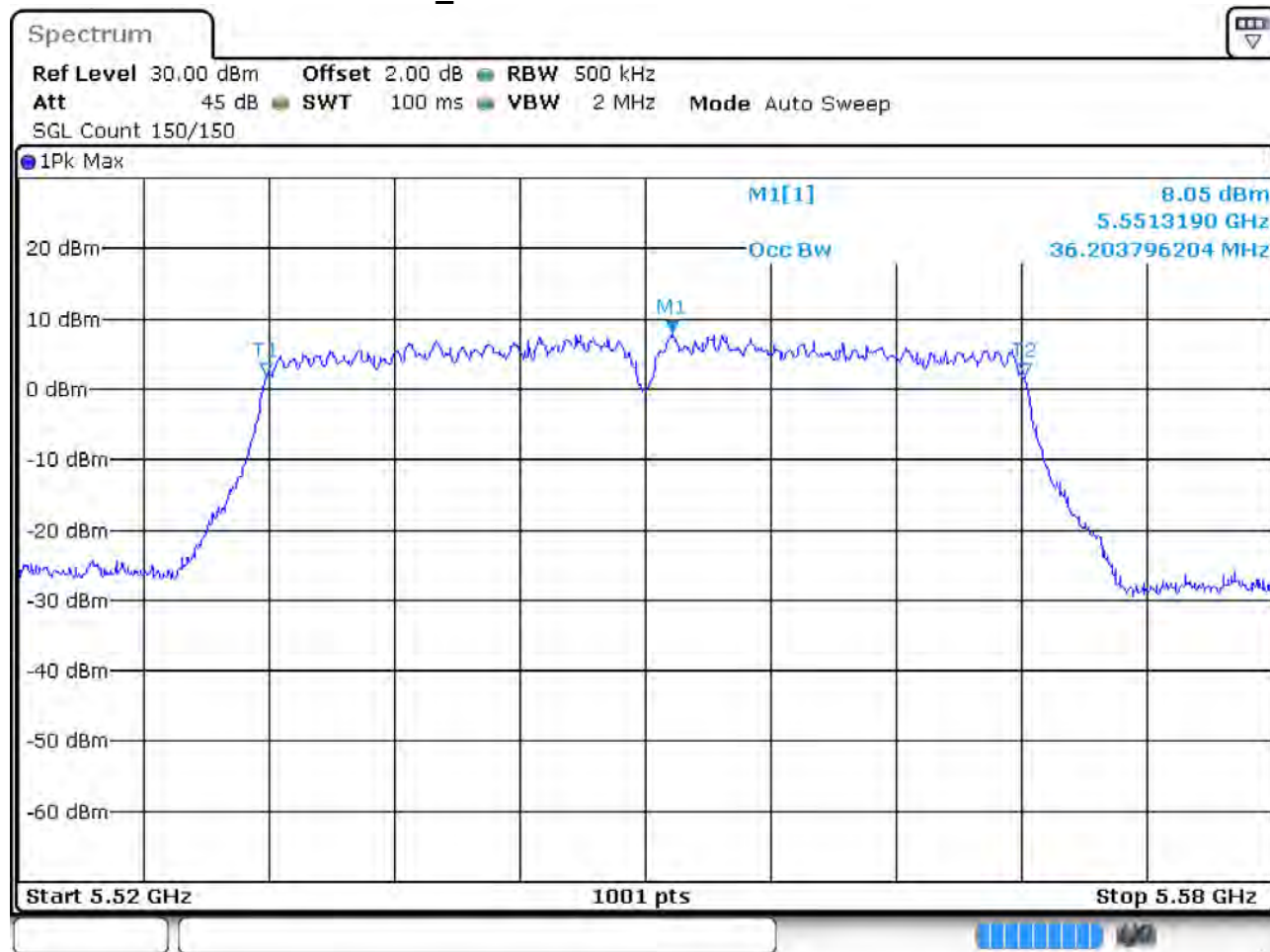
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4.7.2.202

11AC40MIMO_110 ANT 2



Date: 4 JUN 2020 10:02:54



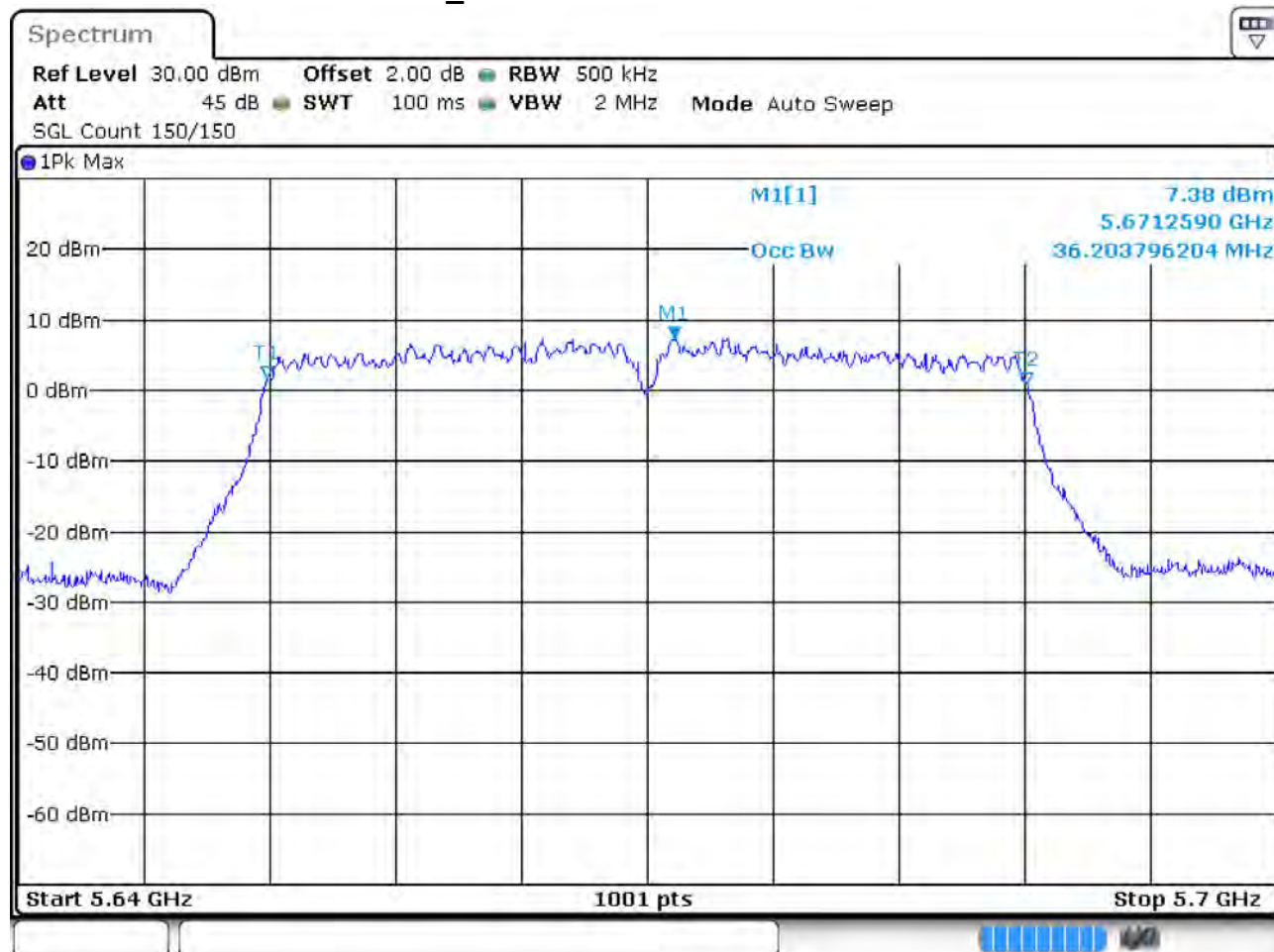
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4.7.2.203

11AC40MIMO_134 ANT 1



Date: 4 JUN 2020 14:49:18



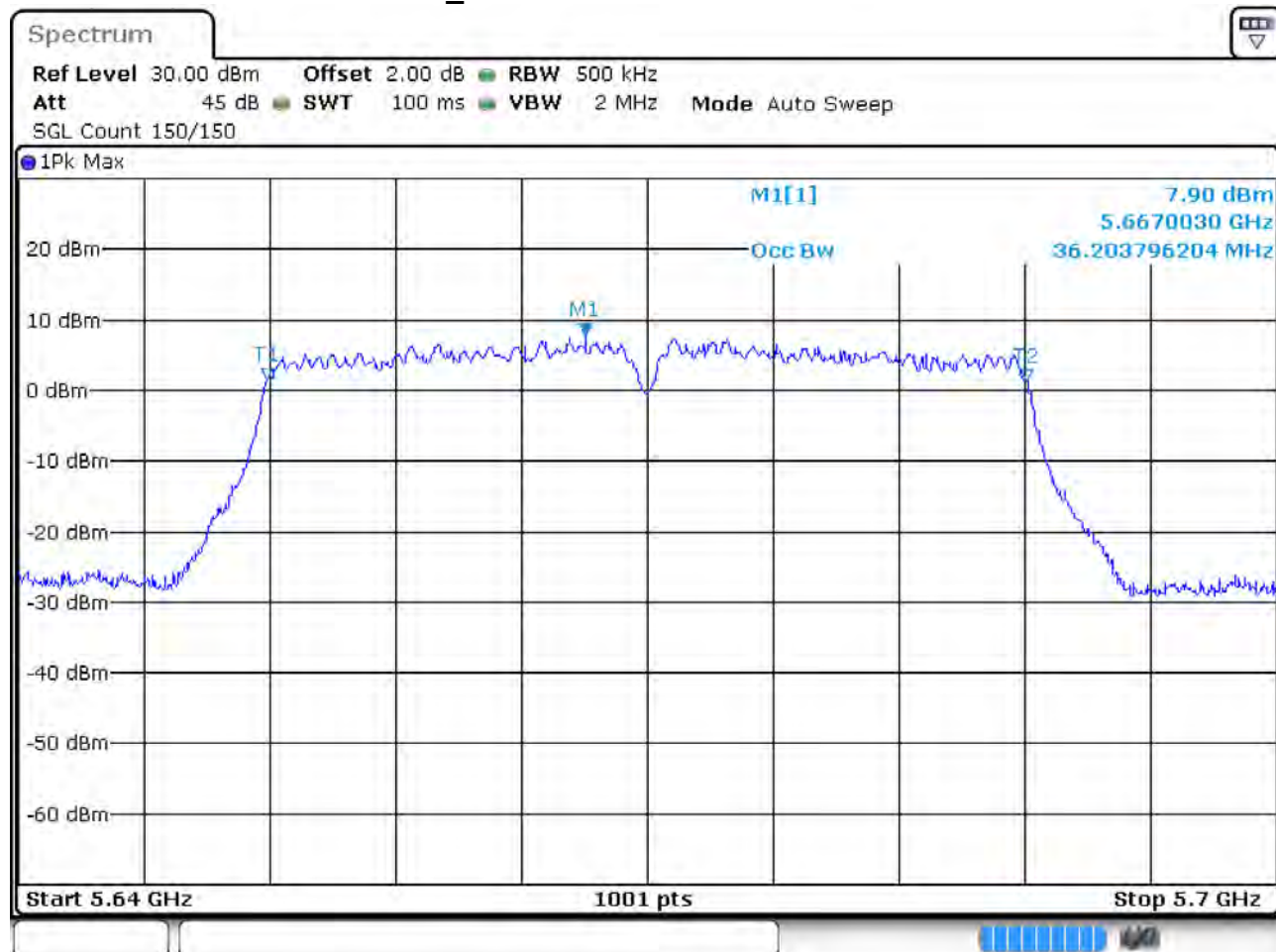
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4.7.2.204

11AC40MIMO_134 ANT 2



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4.7.2.205 11AC40MIMO_151 ANT 1



Date: 4 JUN 2020 13:36:26



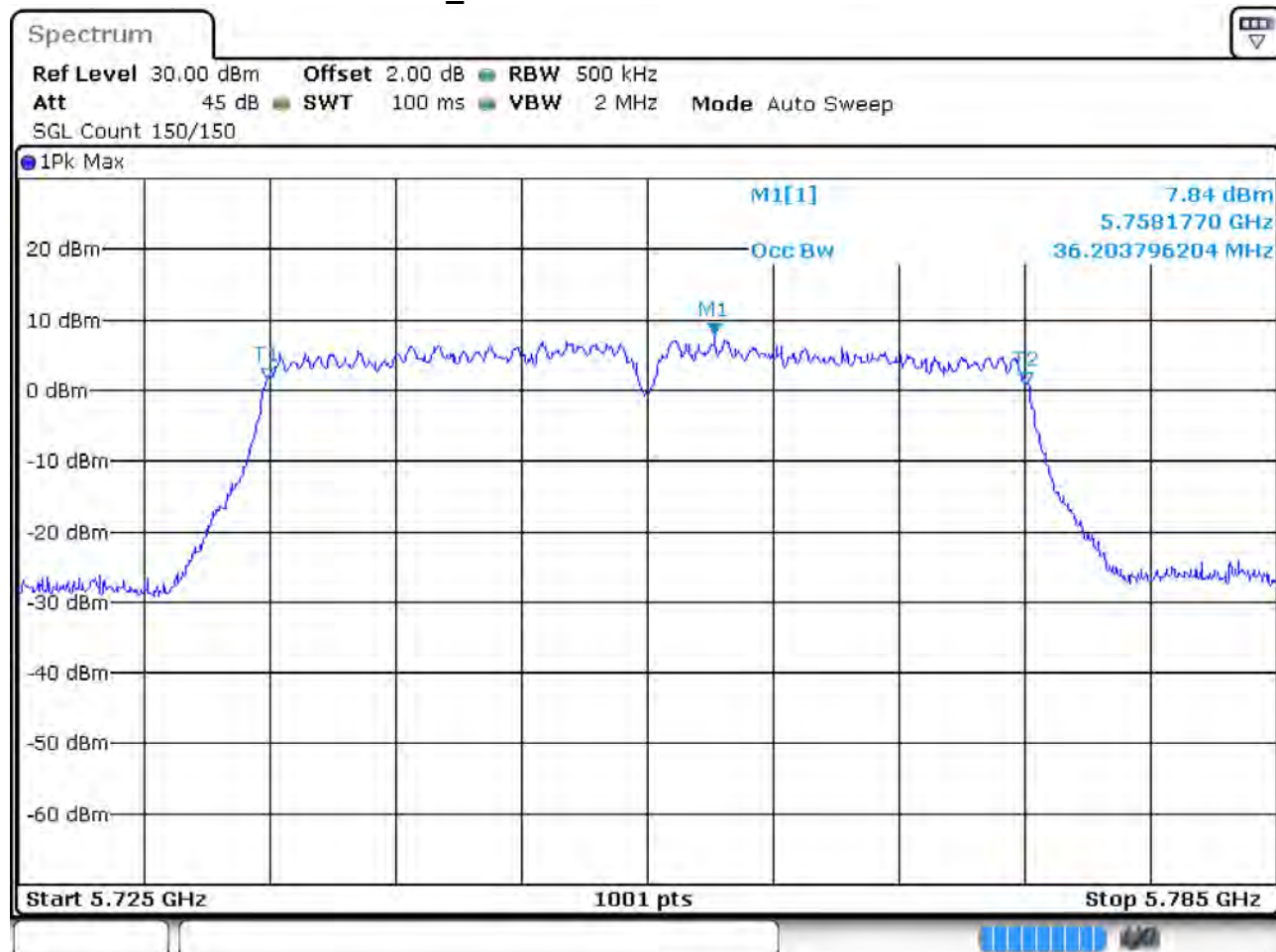
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4.7.2.206

11AC40MIMO_151 ANT 2



Date: 4 JUN 2020 10:06:34

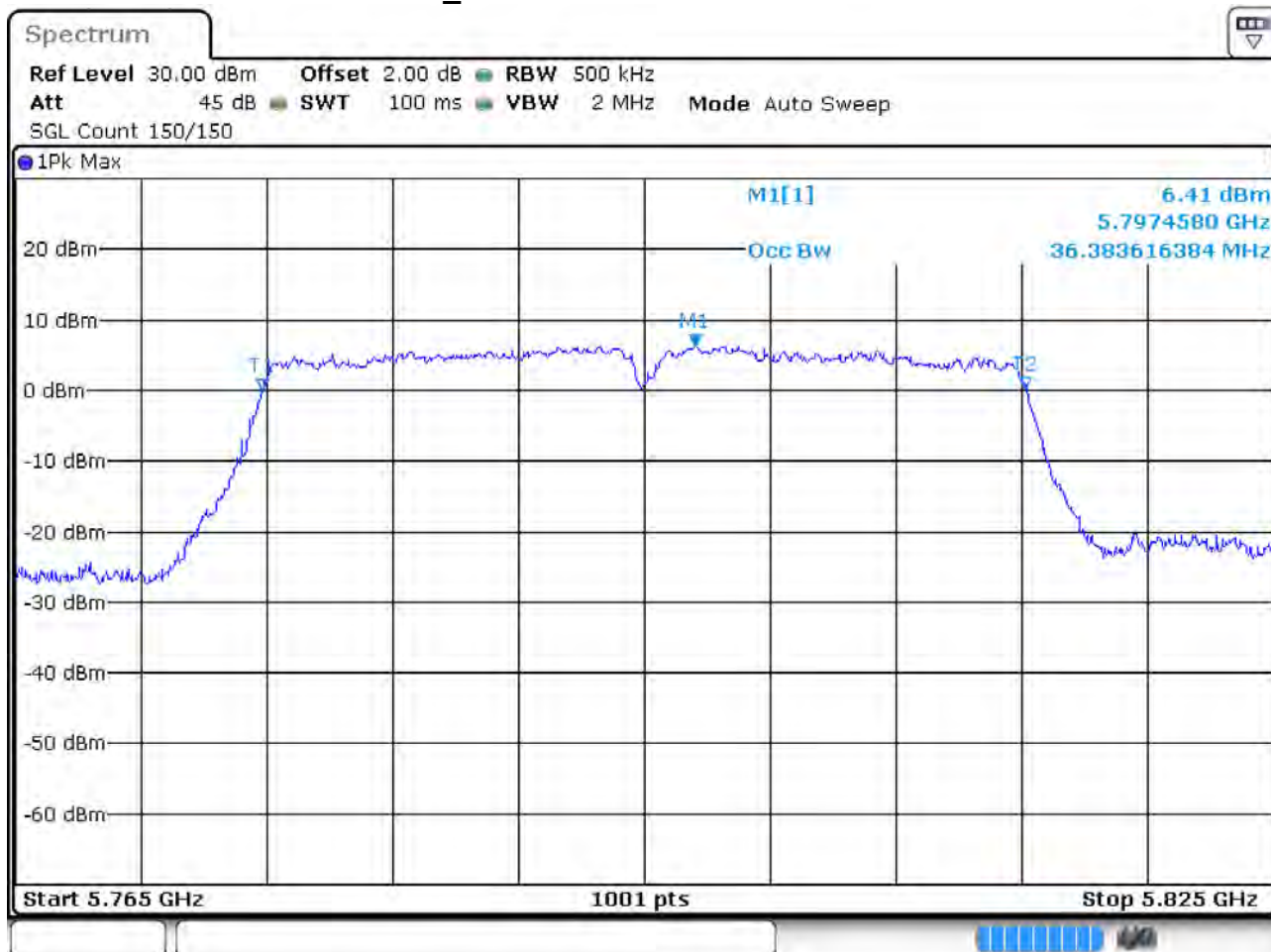


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4.7.2.207 11AC40MIMO_159 ANT 1



Date: 4 JUN 2020 14:03:28



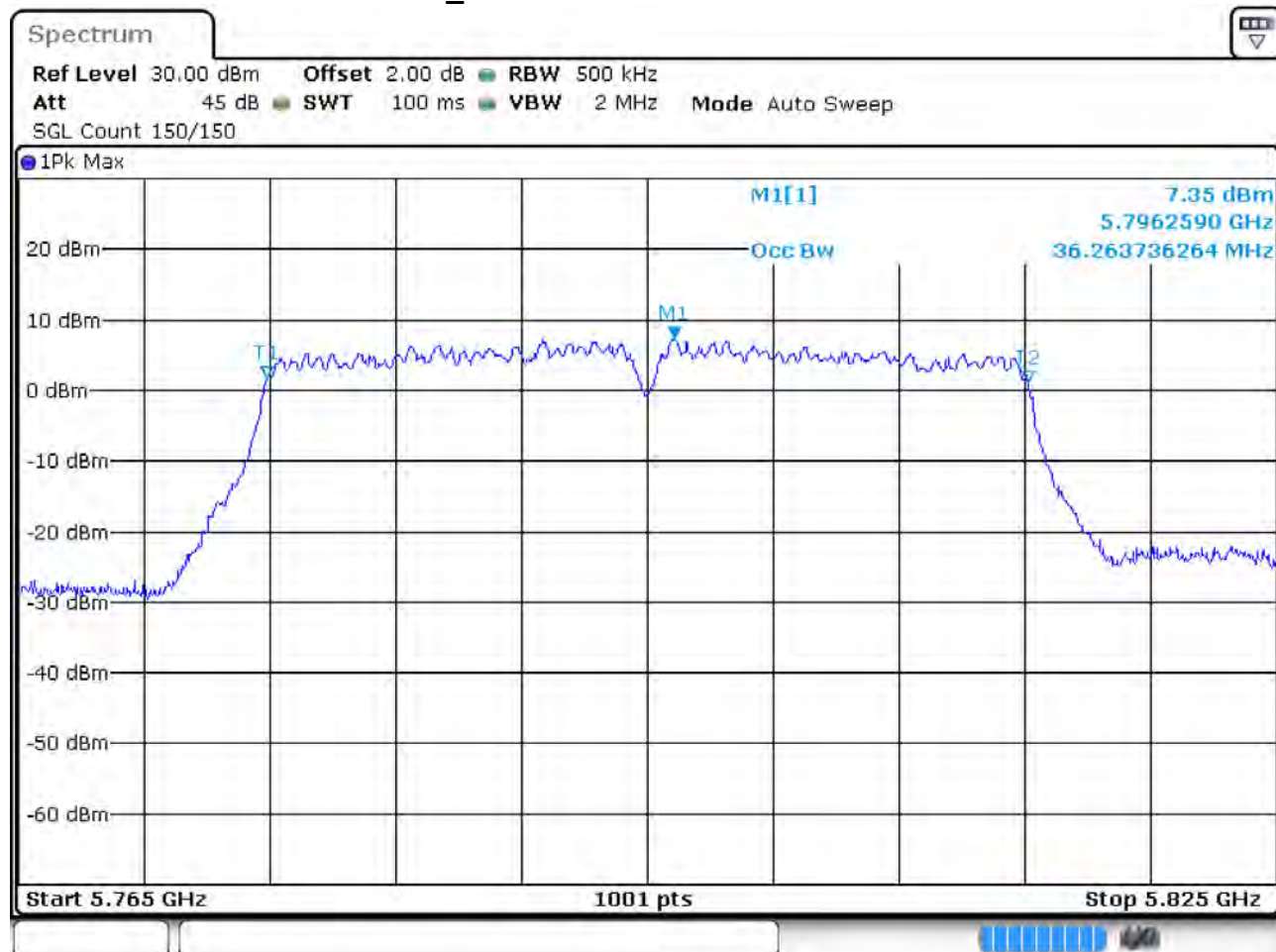
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4.7.2.208

11AC40MIMO_159 ANT 2



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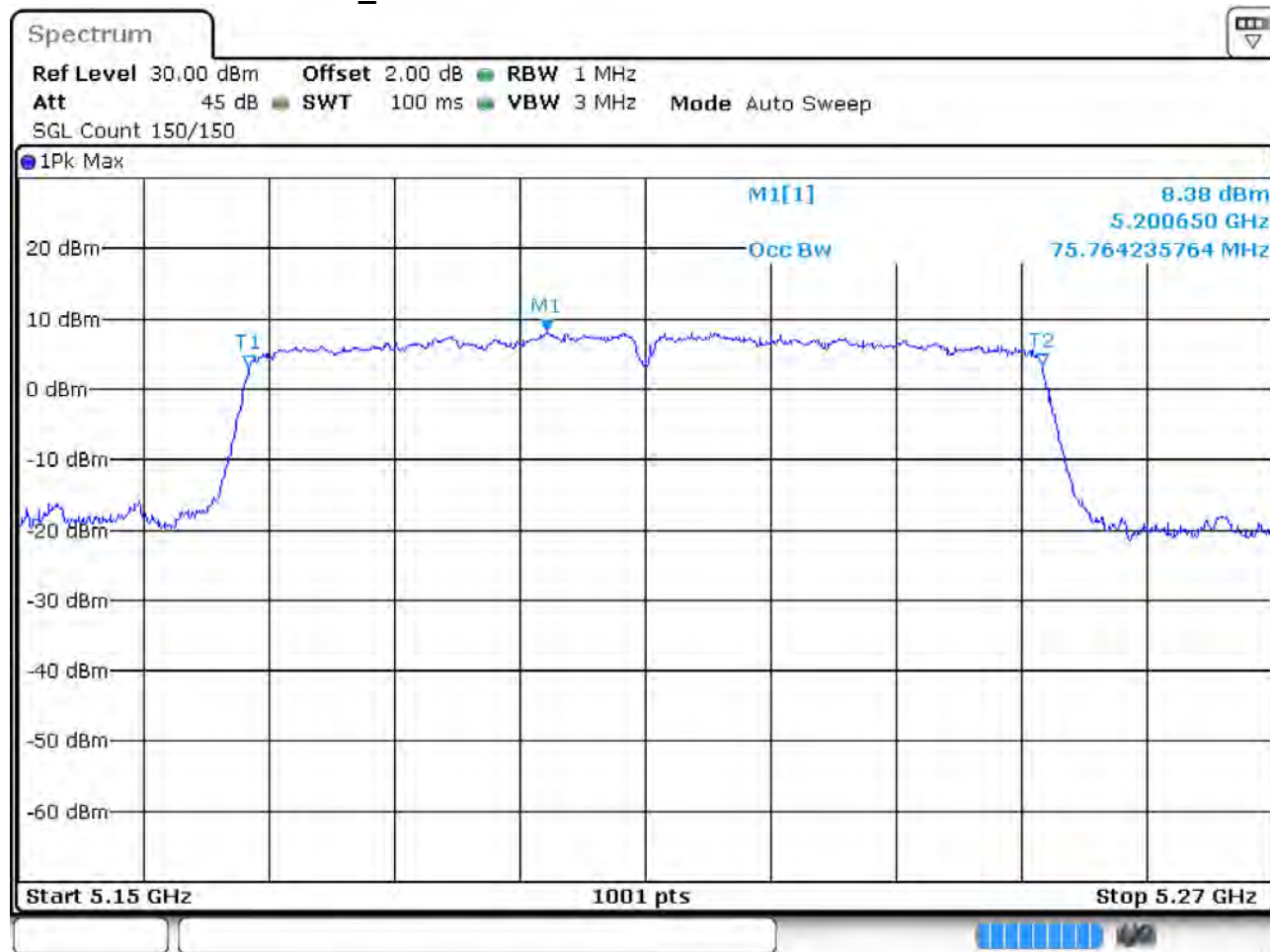
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4.7.2.209

11AC80_42 ANT 1



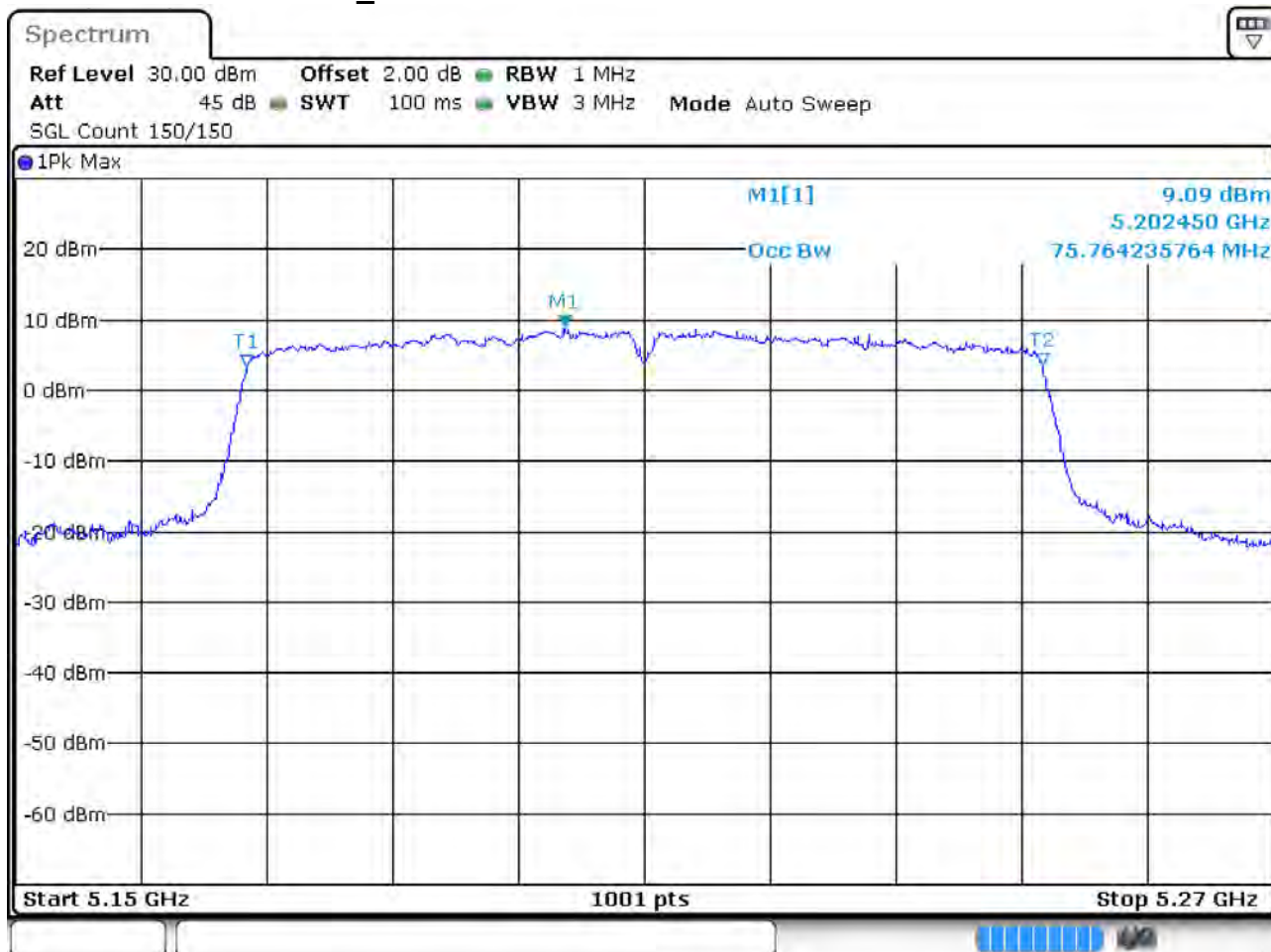
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4.7.2.210 11AC80_42 ANT 2



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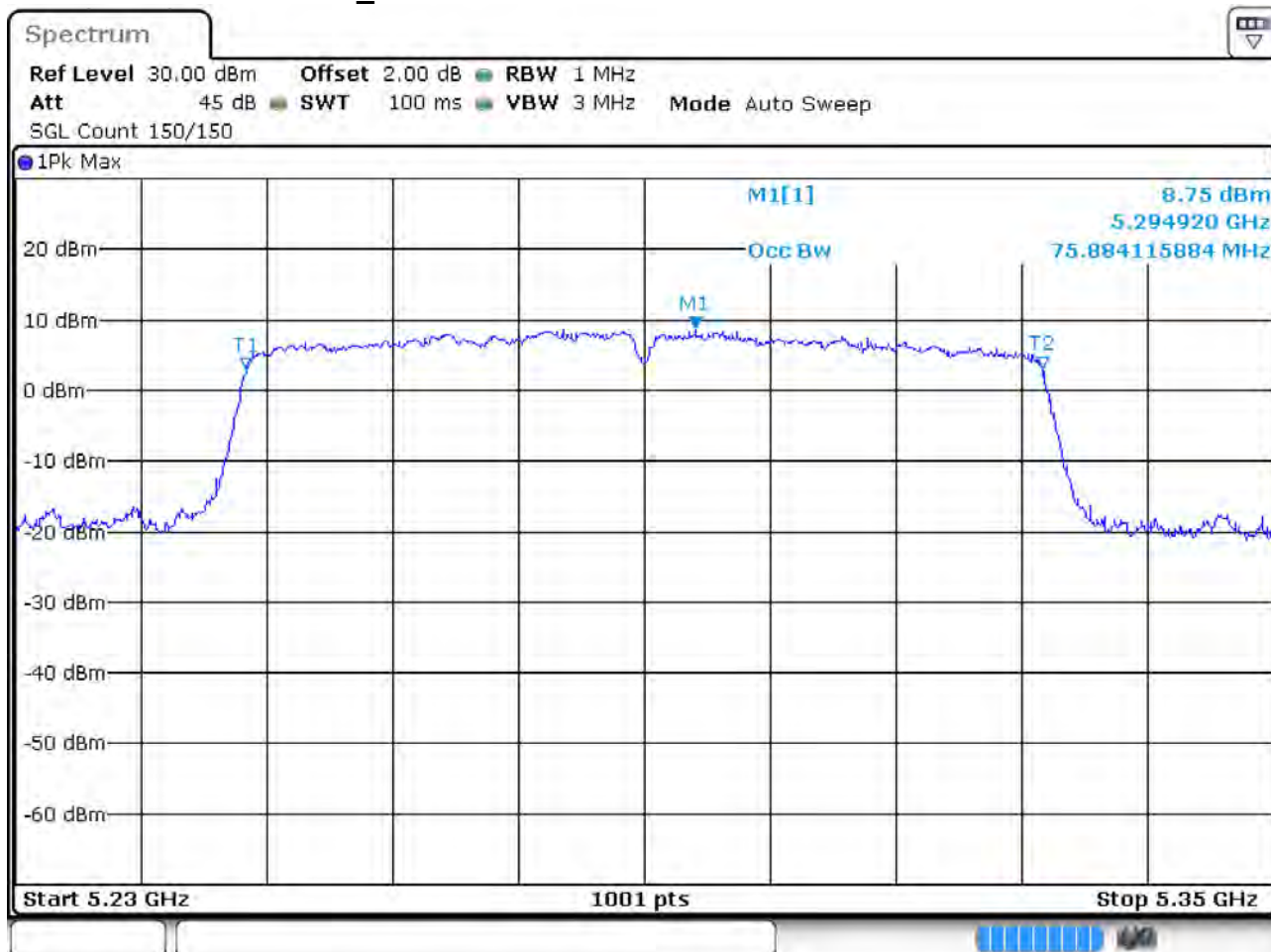


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4.7.2.211 11AC80_58 ANT 1



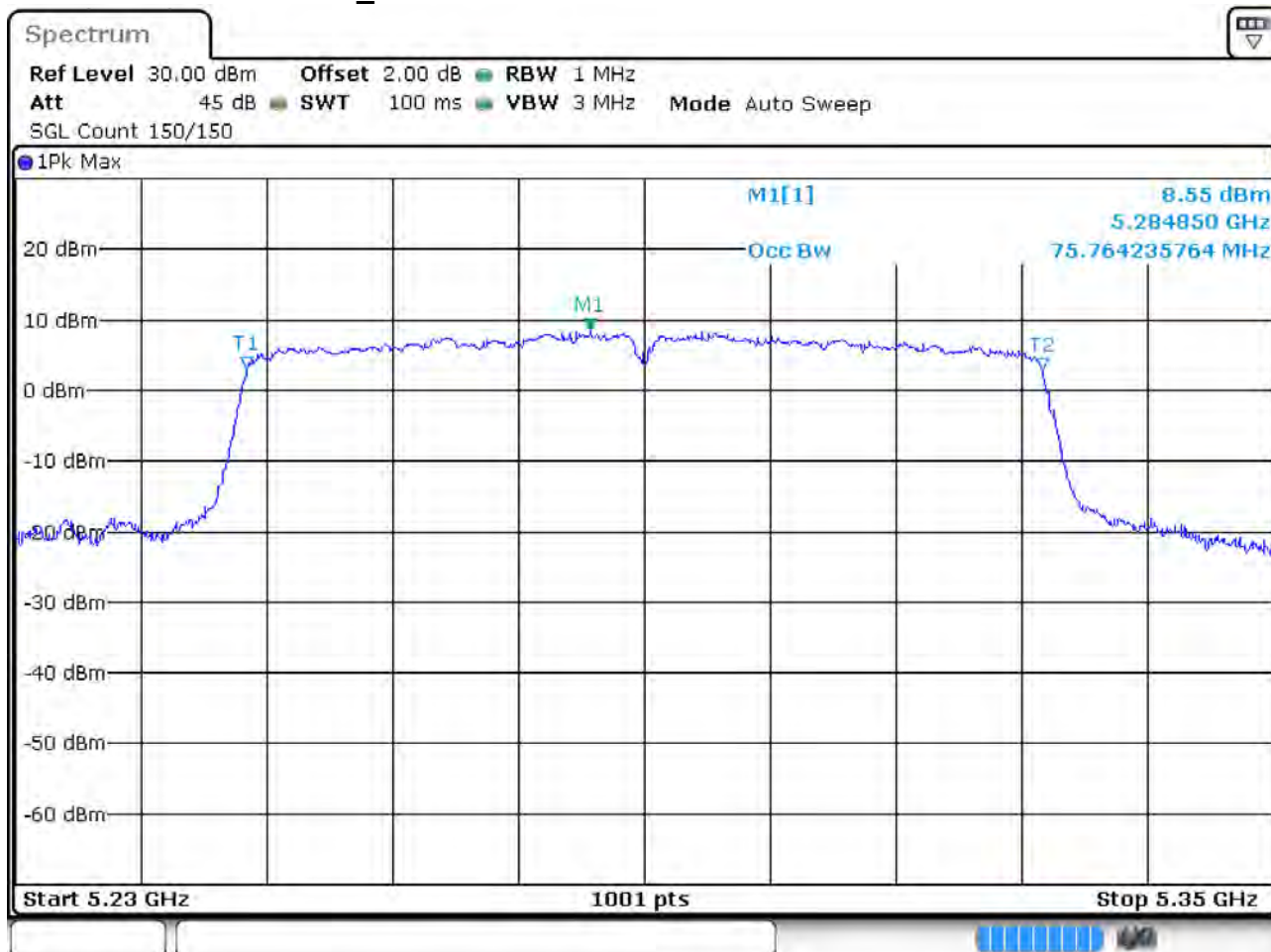
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4.7.2.212 11AC80_58 ANT 2



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4.7.2.213 11AC80_106 ANT 1



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4.7.2.214 11AC80_106 ANT 2



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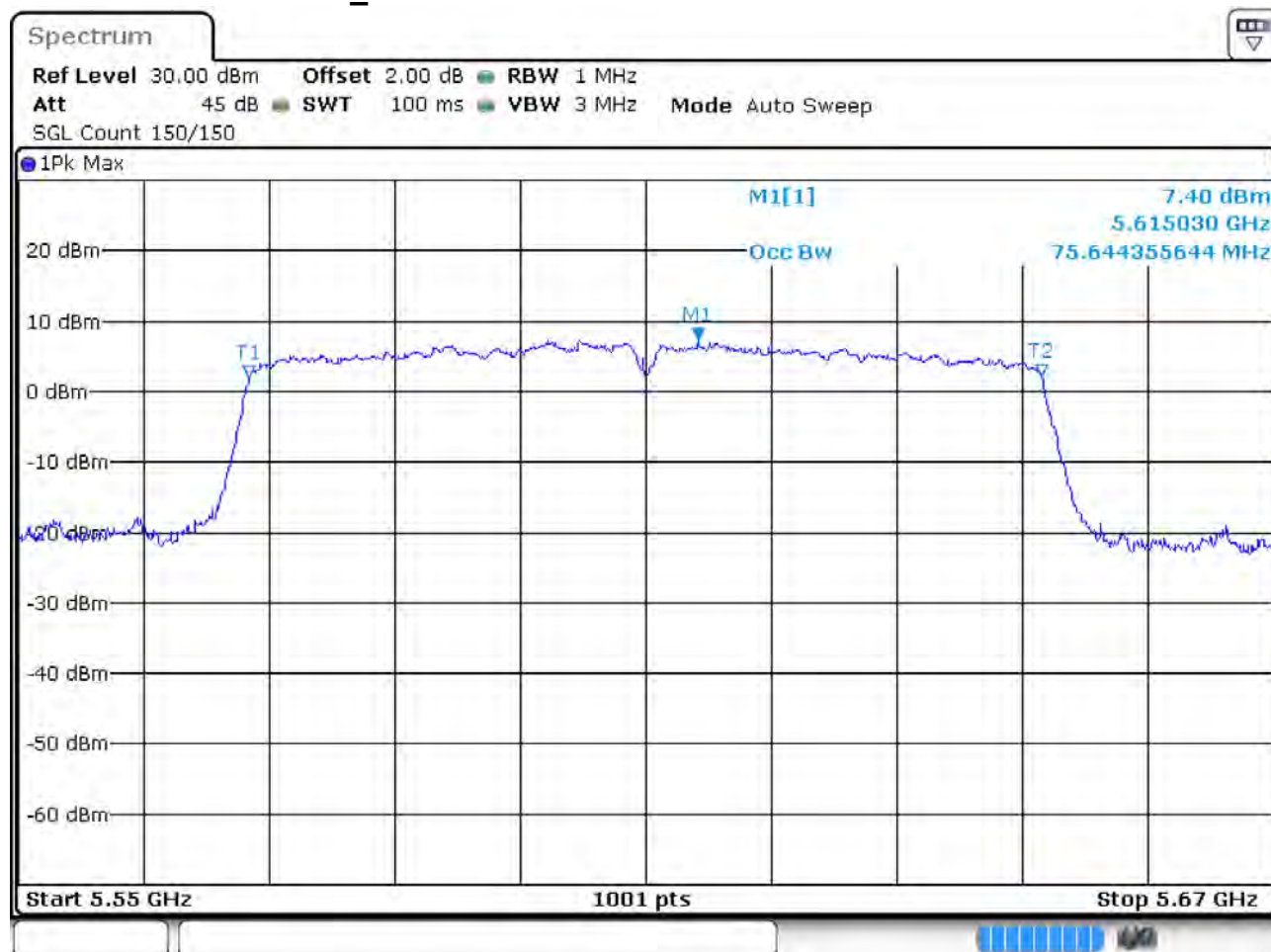


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4.7.2.215 11AC80_122 ANT 1



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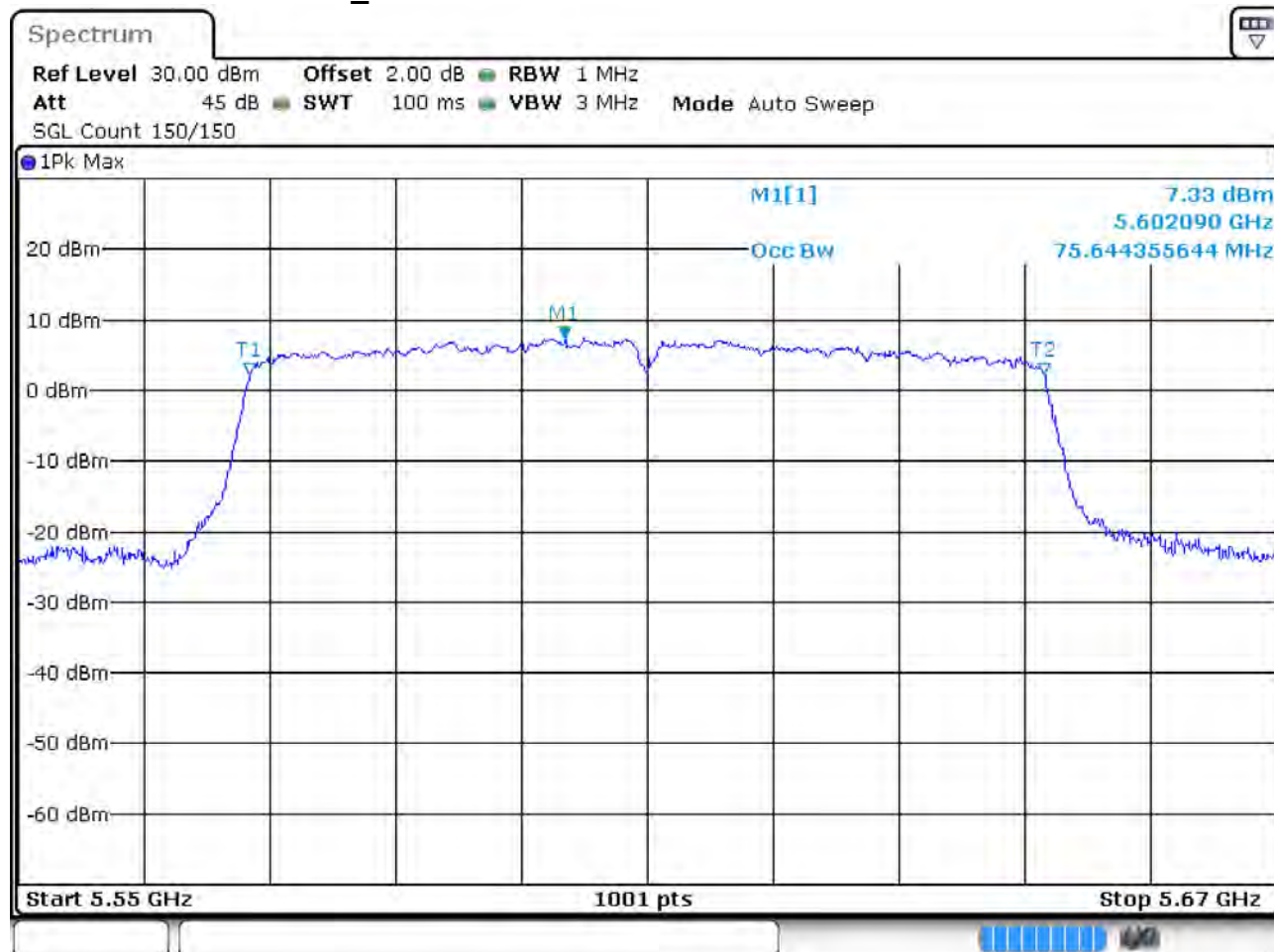


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4.7.2.216 11AC80_122 ANT 2



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4.7.2.217 11AC80_155 ANT 1



Date: 5 JUN 2020 04:38:08



4.7.2.218 11AC80_155 ANT 2



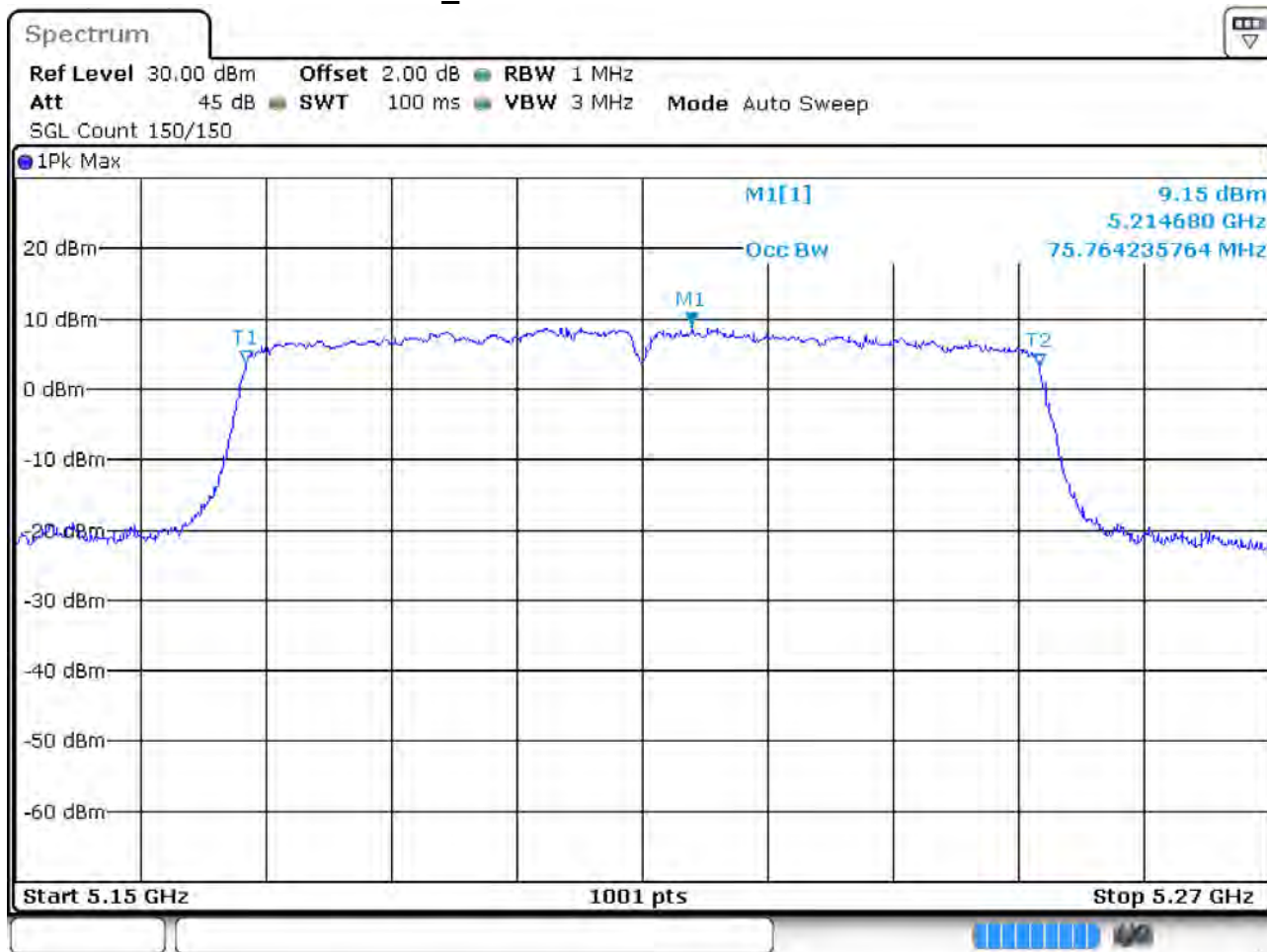
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4.7.2.219 11AC80MIMO_42 ANT 1



Date: 4 JUN 2020 14:05:40

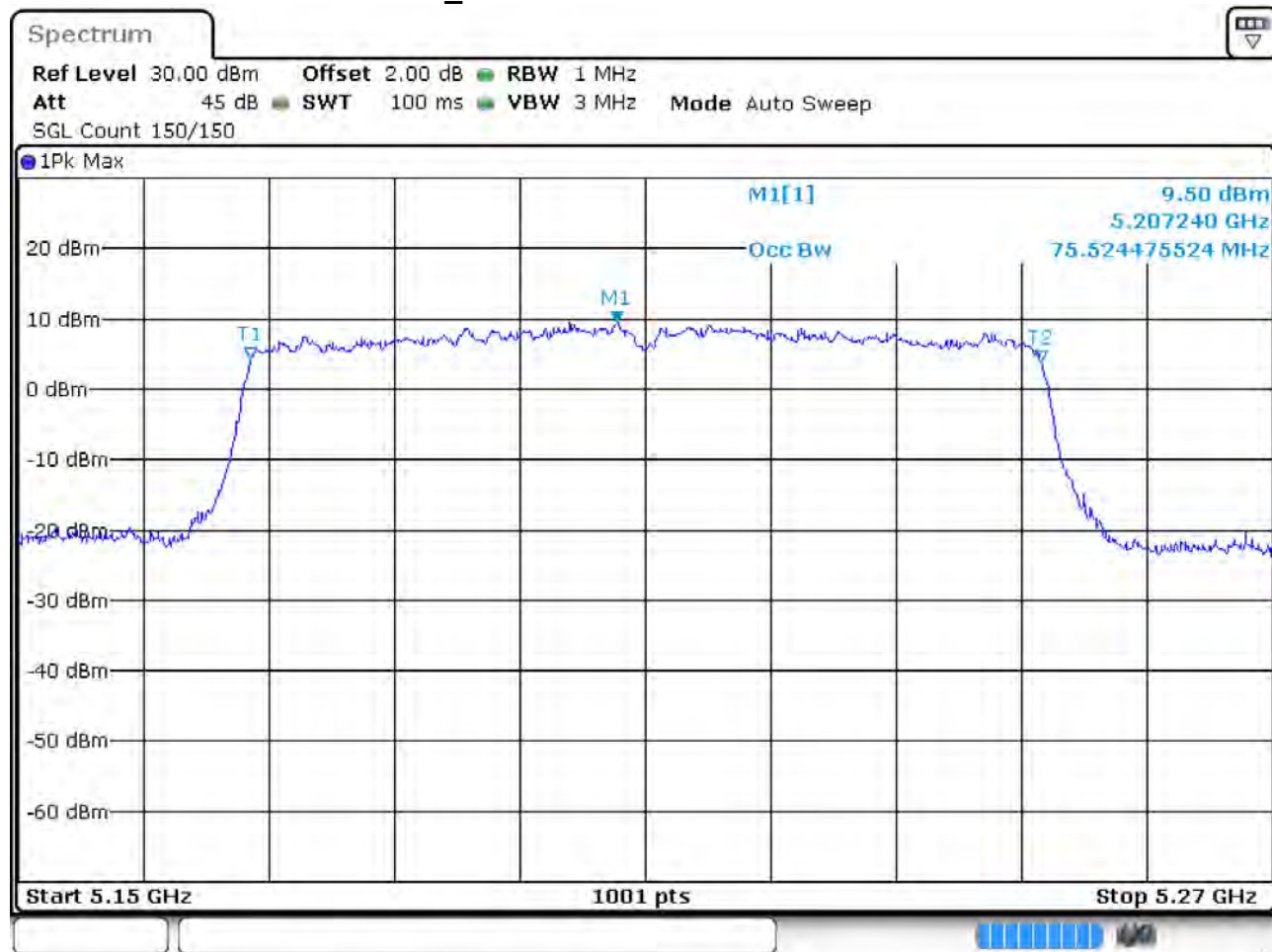


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4.7.2.220

11AC80MIMO_42 ANT 2



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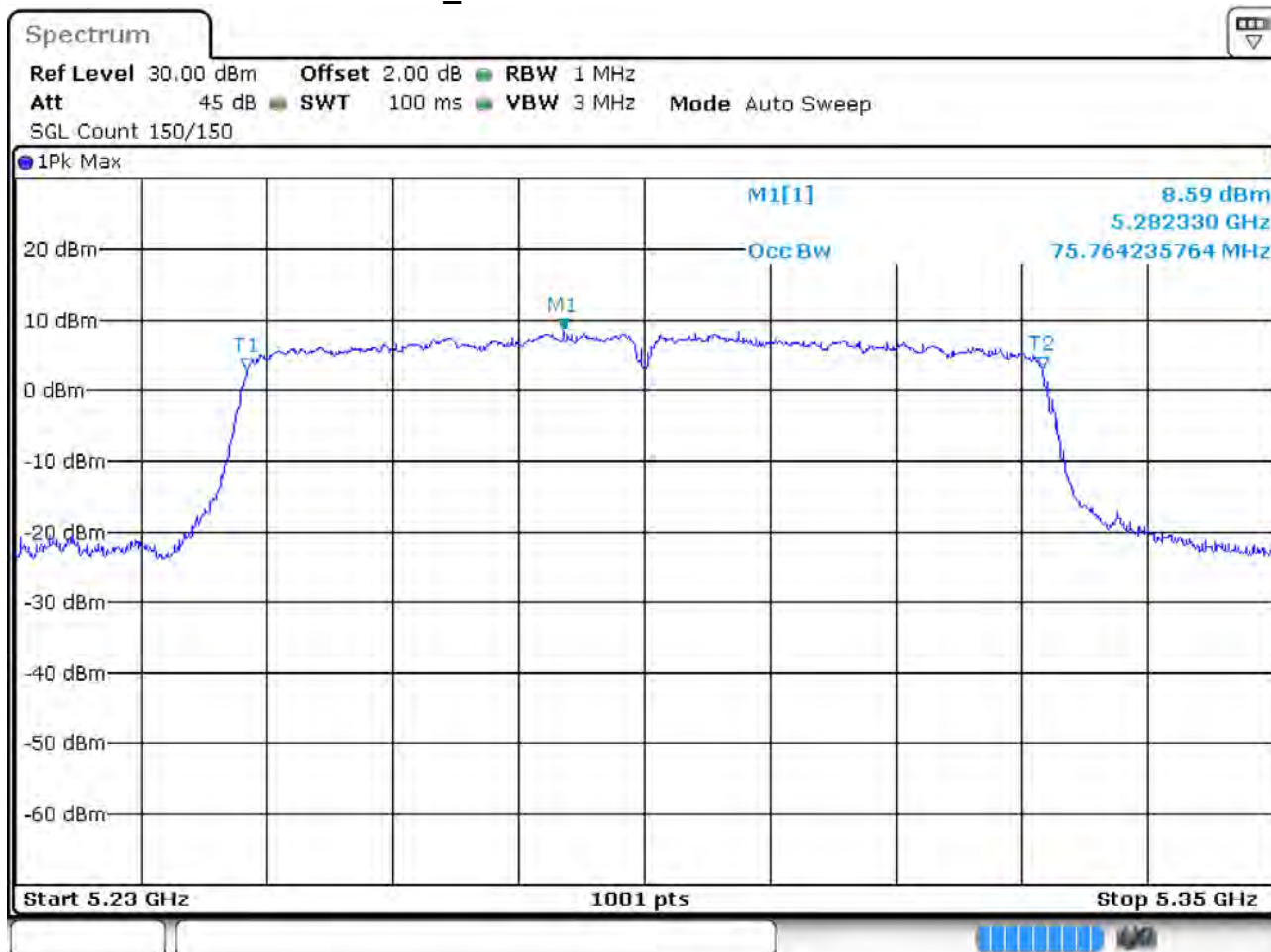


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4.7.2.221 11AC80MIMO_58 ANT 1



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4.7.2.222 11AC80MIMO_58 ANT 2



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4.7.2.223

11AC80MIMO_106 ANT 1



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4.7.2.224

11AC80MIMO_106 ANT 2



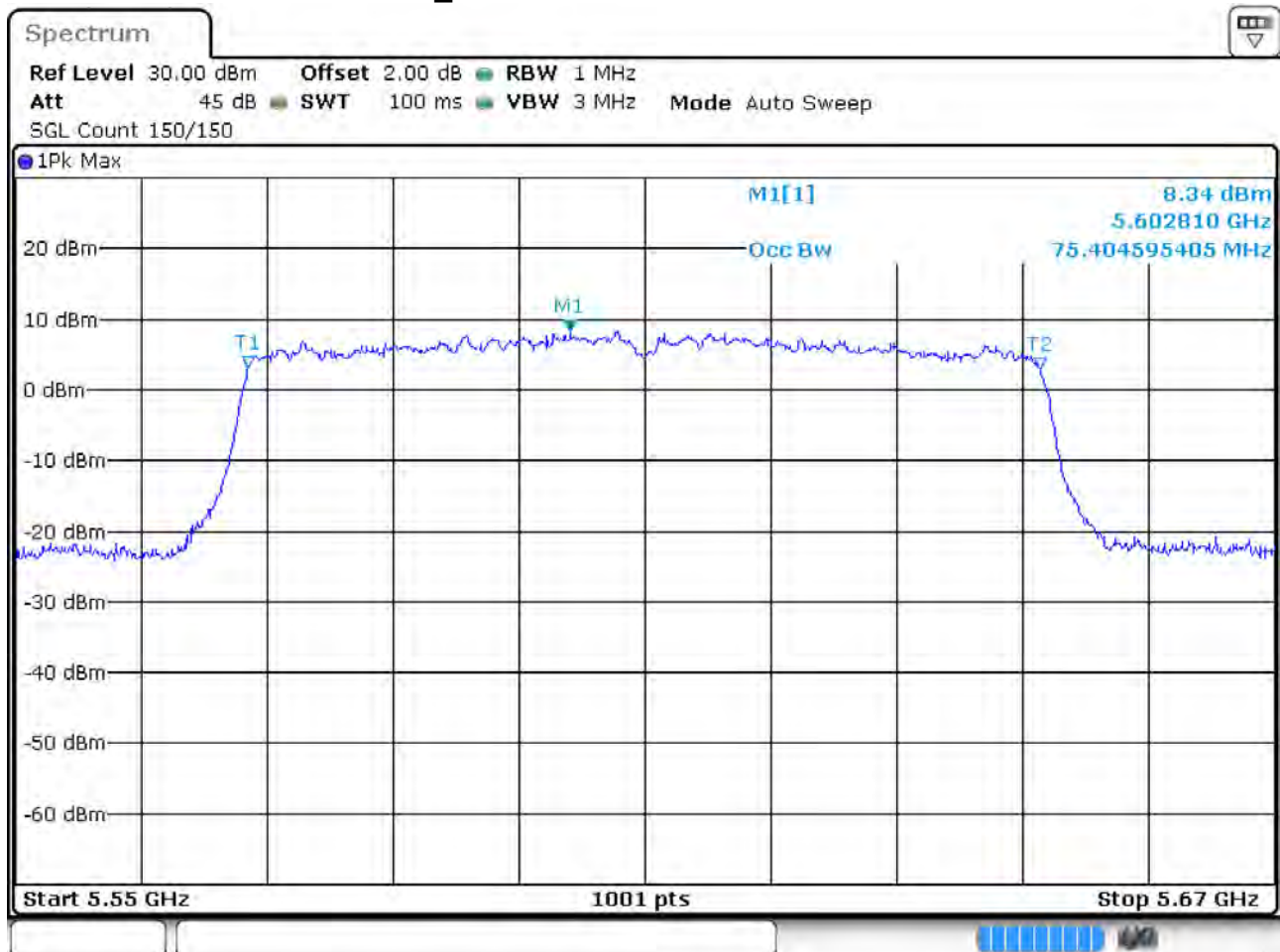
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4.7.2.225 11AC80MIMO_122 ANT 1



Date: 4, JUN, 2020 14:41:28

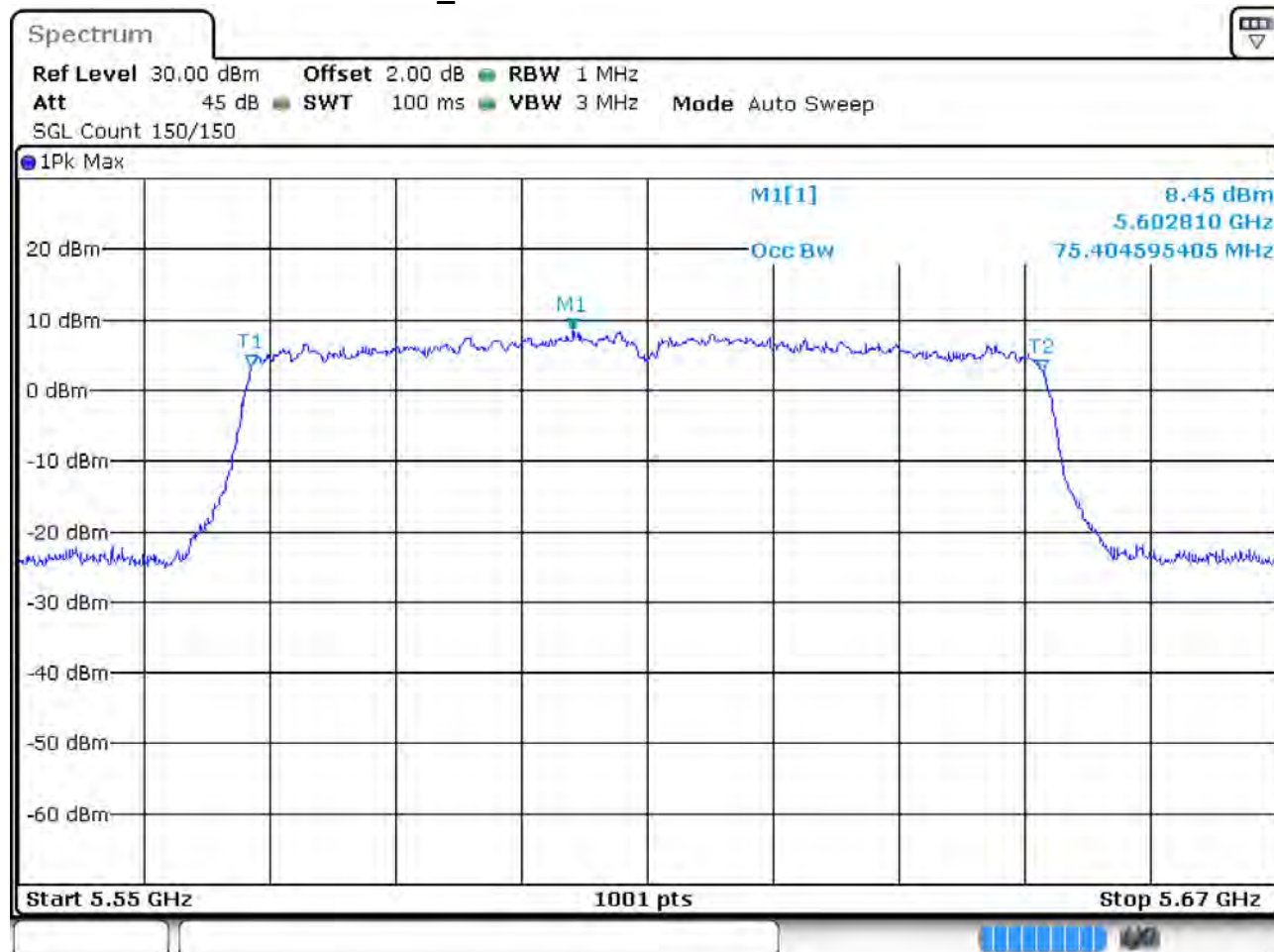


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4.7.2.226 11AC80MIMO_122 ANT 2



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4.7.2.227 11AC80MIMO_155 ANT 1



Date: 4 JUN 2020 14:12:12

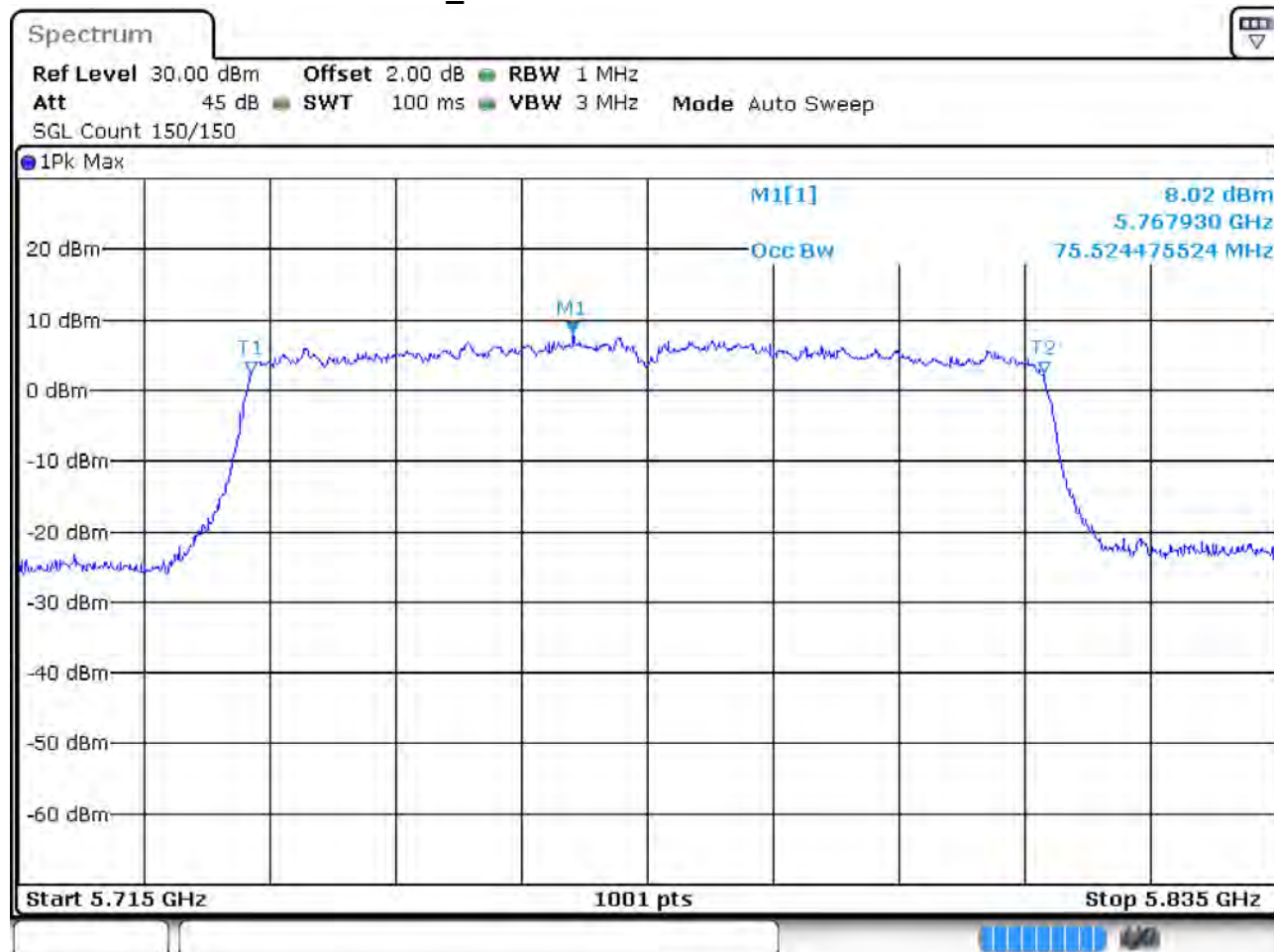


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4.7.2.228 11AC80MIMO_155 ANT 2



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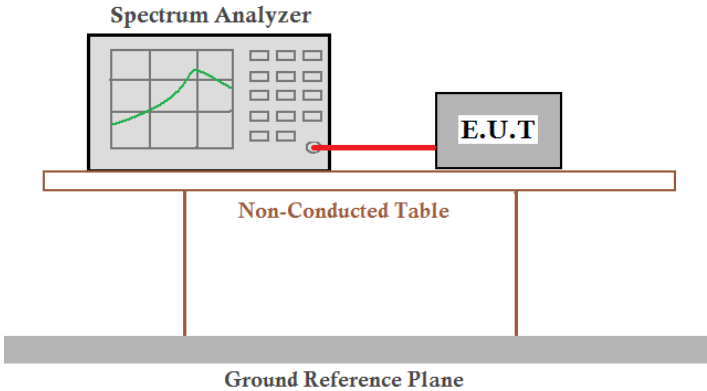


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4.8 Power Spectral Density

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:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	





4.8.1 Test Results For Power Density

Test Mode	Test Channel	Frequency [MHz]	Meas. Level (Cond.) [dBm]			Verdict
			ANT 1	ANT 2	SUM	
11A20	36	5180	6.5	6.21	---	PASS
	44	5220	6.28	6.27	---	PASS
	48	5240	6.22	6.27	---	PASS
	52	5260	5.69	5.83	---	PASS
	60	5300	5.83	6.01	---	PASS
	64	5320	5.92	6.07	---	PASS
	100	5500	5.02	4.64	---	PASS
	116	5580	4.91	5.03	---	PASS
	140	5700	4.49	4.42	---	PASS
	149	5745	2.04	1.71	---	PASS
	157	5785	2.18	1.73	---	PASS
	165	5825	2.41	1.99	---	PASS
11A20 CDD	36	5180	6.43	6.2	9.33	PASS
	44	5220	6.3	6.18	9.25	PASS
	48	5240	6.38	6.26	9.33	PASS
	52	5260	5.9	5.76	8.84	PASS
	60	5300	6	5.96	8.99	PASS
	64	5320	6.11	6	9.07	PASS
	100	5500	5.18	4.54	7.88	PASS
	116	5580	5.05	4.91	7.99	PASS
	140	5700	5.54	4.38	8.01	PASS
	149	5745	2.9	1.59	5.30	PASS
	157	5785	2.91	1.55	5.29	PASS
	165	5825	2.77	1.95	5.39	PASS
11N20	36	5180	5.51	5.37	---	PASS
	44	5220	5.96	5.42	---	PASS
	48	5240	6.18	5.49	---	PASS
	52	5260	5.66	4.88	---	PASS
	60	5300	5.68	5.24	---	PASS
	64	5320	5.42	5.27	---	PASS
	100	5500	4.44	3.87	---	PASS
	116	5580	4.04	4.14	---	PASS



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	140	5700	4.58	3.69	---	PASS
	149	5745	1.86	0.6	---	PASS
	157	5785	2.23	0.65	---	PASS
	165	5825	2.21	0.97	---	PASS
11N20 MIMO	36	5180	5.51	5.43	8.48	PASS
	44	5220	5.29	5.54	8.43	PASS
	48	5240	5.51	5.63	8.58	PASS
	52	5260	4.96	4.98	7.98	PASS
	60	5300	4.99	5.34	8.18	PASS
	64	5320	5.05	5.34	8.21	PASS
	100	5500	4.19	3.91	7.06	PASS
	116	5580	4.21	4.22	7.23	PASS
	140	5700	4.54	3.78	7.19	PASS
	149	5745	2	0.69	4.40	PASS
	157	5785	1.96	0.71	4.39	PASS
	165	5825	1.95	1.02	4.52	PASS
11N40	38	5190	2.58	3.05	---	PASS
	46	5230	2.87	3.12	---	PASS
	54	5270	3.26	2.65	---	PASS
	62	5310	2.91	3.03	---	PASS
	102	5510	1.88	1.65	---	PASS
	110	5550	1.48	1.55	---	PASS
	134	5670	1.83	1.21	---	PASS
	151	5755	-0.75	-1.77	---	PASS
	159	5795	-0.47	-1.75	---	PASS
11N40 MIMO	38	5190	3.03	3.02	6.04	PASS
	46	5230	2.95	3.07	6.02	PASS
	54	5270	2.6	2.62	5.62	PASS
	62	5310	2.62	2.99	5.82	PASS
	102	5510	1.79	1.67	4.74	PASS
	110	5550	1.67	1.58	4.64	PASS
	134	5670	1.93	1.22	4.60	PASS
	151	5755	-0.66	-1.72	1.85	PASS
	159	5795	-0.47	-1.76	1.94	PASS
11AC20	36	5180	4.38	4.79	---	PASS
	44	5220	4.7	4.91	---	PASS
	48	5240	4.86	4.89	---	PASS
	52	5260	5.12	4.4	---	PASS
	60	5300	4.93	4.71	---	PASS
	64	5320	4.71	4.73	---	PASS
	100	5500	3.77	3.27	---	PASS
	116	5580	3.34	3.6	---	PASS
	140	5700	3.83	3.05	---	PASS



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	149	5745	1.14	0.09	---	PASS
	157	5785	1.47	0.13	---	PASS
	165	5825	1.56	0.49	---	PASS
11AC20 MIMO	36	5180	5	4.93	7.98	PASS
	44	5220	5	5.06	8.04	PASS
	48	5240	5.02	5.13	8.09	PASS
	52	5260	4.65	4.59	7.63	PASS
	60	5300	4.67	4.93	7.81	PASS
	64	5320	4.76	4.91	7.85	PASS
	100	5500	3.8	3.42	6.62	PASS
	116	5580	3.62	3.77	6.71	PASS
	140	5700	4.1	3.22	6.69	PASS
	149	5745	1.39	0.26	3.87	PASS
	157	5785	1.55	0.29	3.98	PASS
	165	5825	1.49	0.57	4.06	PASS
11AC40	38	5190	1.97	2.48	---	PASS
	46	5230	2.44	2.61	---	PASS
	54	5270	2.77	2.14	---	PASS
	62	5310	2.52	2.39	---	PASS
	102	5510	1.34	1.07	---	PASS
	110	5550	1.03	1.04	---	PASS
	134	5670	1.39	0.69	---	PASS
	151	5755	-1.21	-2.39	---	PASS
	159	5795	-0.89	-2.29	---	PASS
11AC40 MIMO	38	5190	2.56	2.69	5.64	PASS
	46	5230	2.58	2.73	5.67	PASS
	54	5270	2.23	2.26	5.26	PASS
	62	5310	2.36	2.58	5.48	PASS
	102	5510	1.83	0.81	4.36	PASS
	110	5550	1.4	1.15	4.29	PASS
	134	5670	0.91	0.78	3.86	PASS
	151	5755	-0.87	-2.17	1.54	PASS
	159	5795	-1.44	-2.14	1.23	PASS
11AC80	42	5210	-1.06	-0.53	---	PASS
	58	5290	-0.61	-0.95	---	PASS
	106	5530	-2.04	-1.94	---	PASS
	122	5610	-2.11	-1.75	---	PASS
	155	5775	-4.33	-5.45	---	PASS
11AC80 MIMO	42	5210	-0.14	-0.25	2.82	PASS
	58	5290	-0.76	-0.59	2.34	PASS
	106	5530	-1.12	-1.72	1.60	PASS
	122	5610	-1.41	-1.37	1.62	PASS



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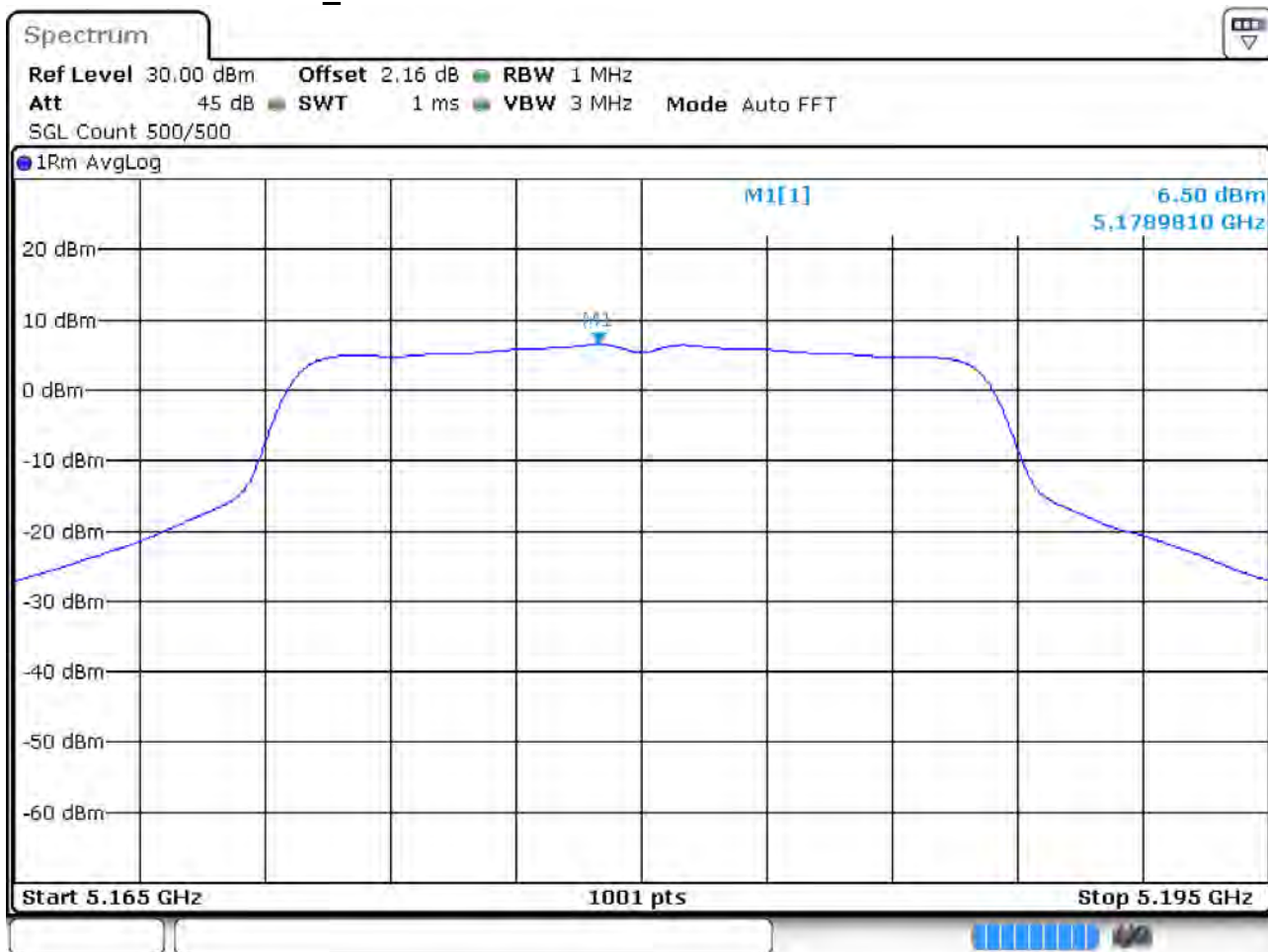
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	155	5775	-4.5	-4.98	-1.72	PASS
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4.8.2 Test plots For Power Density

4.8.2.1 11A20_36 ANT 1



Date: 4, JUN, 2020 14:15:25

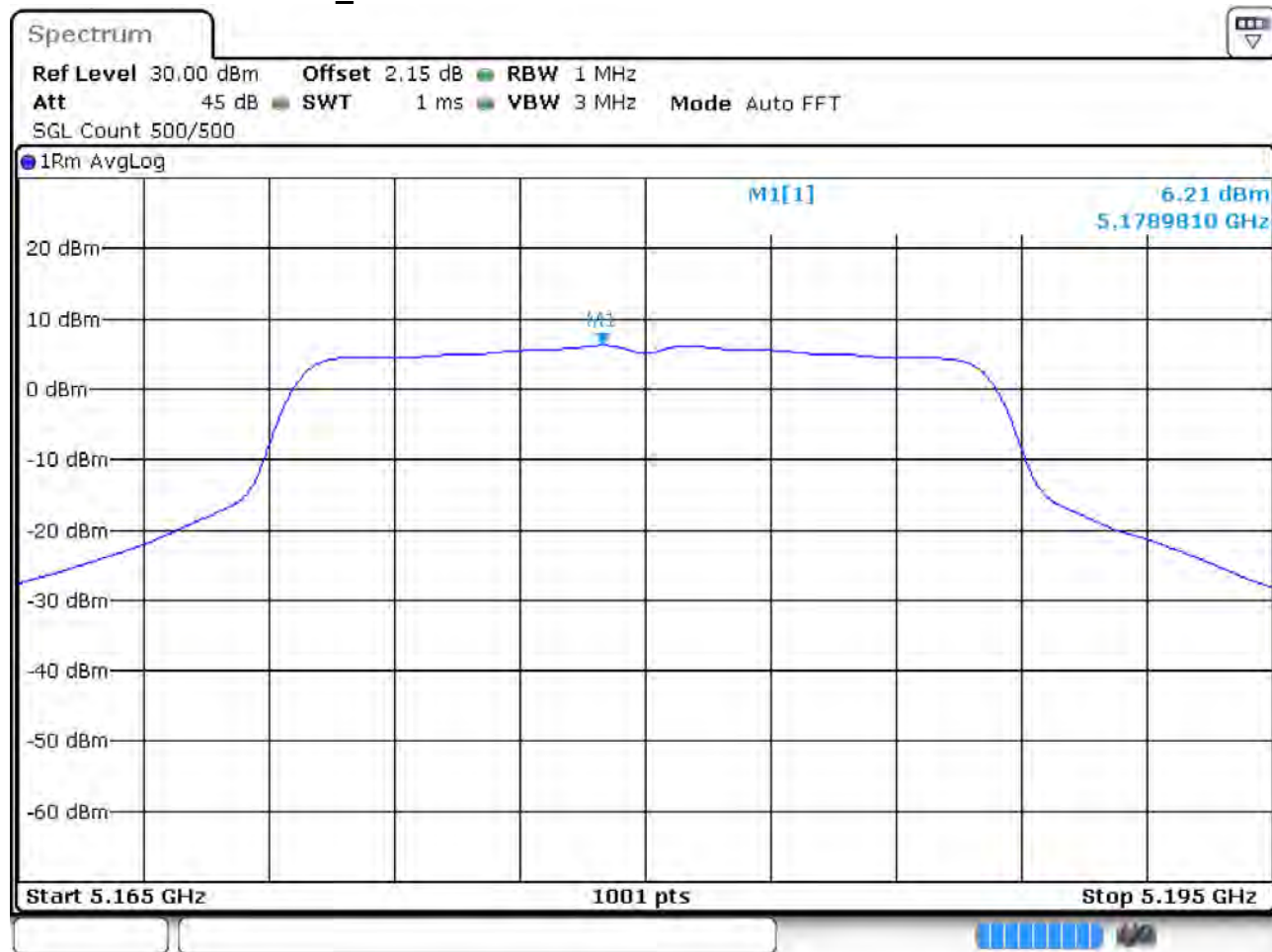


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4.8.2.2 11A20_36 ANT 2



Date: 4 JUN 2020 04:00:14

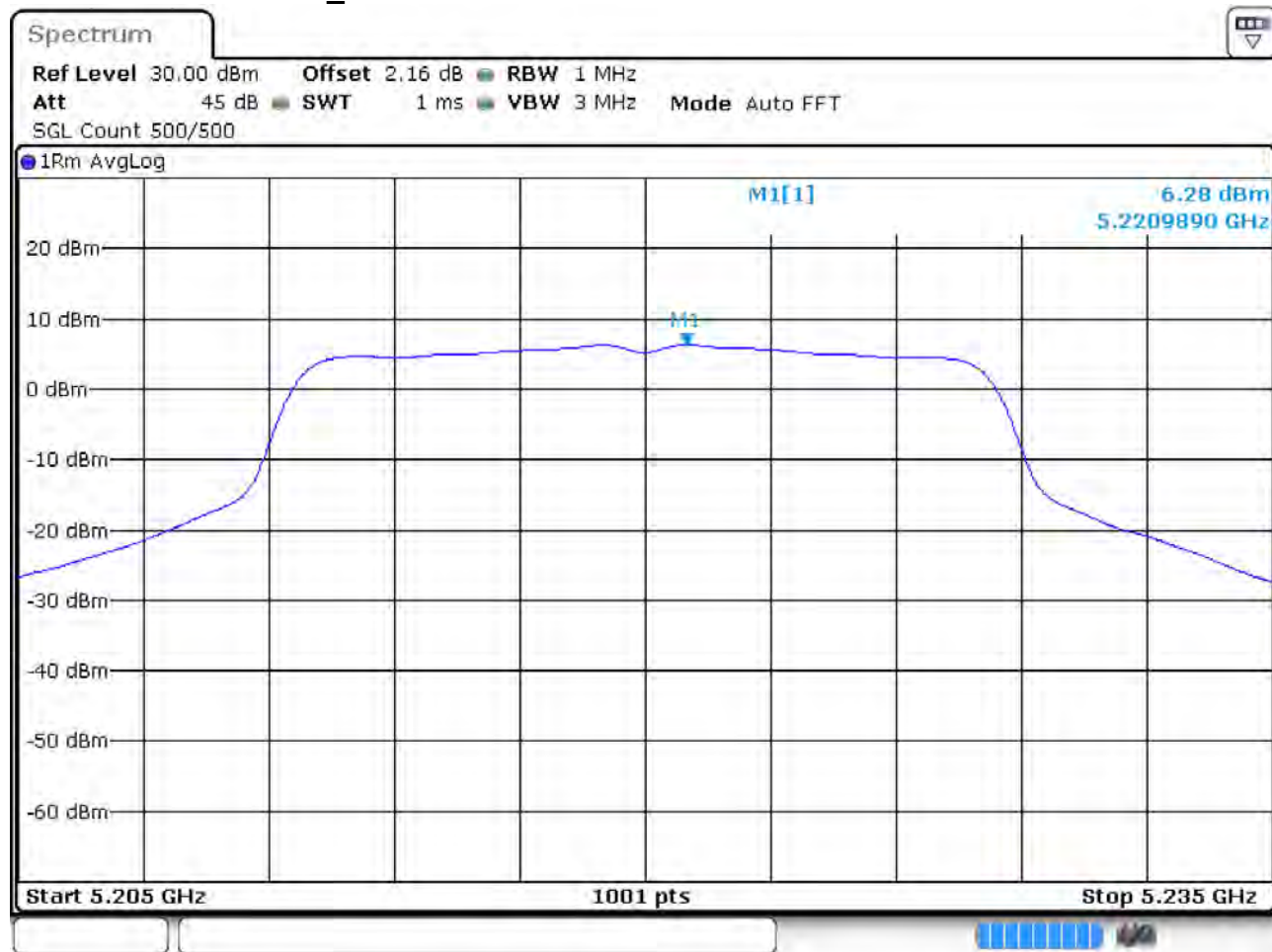


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4.8.2.3 11A20_44 ANT 1



Date: 4 JUN 2020 14:16:46

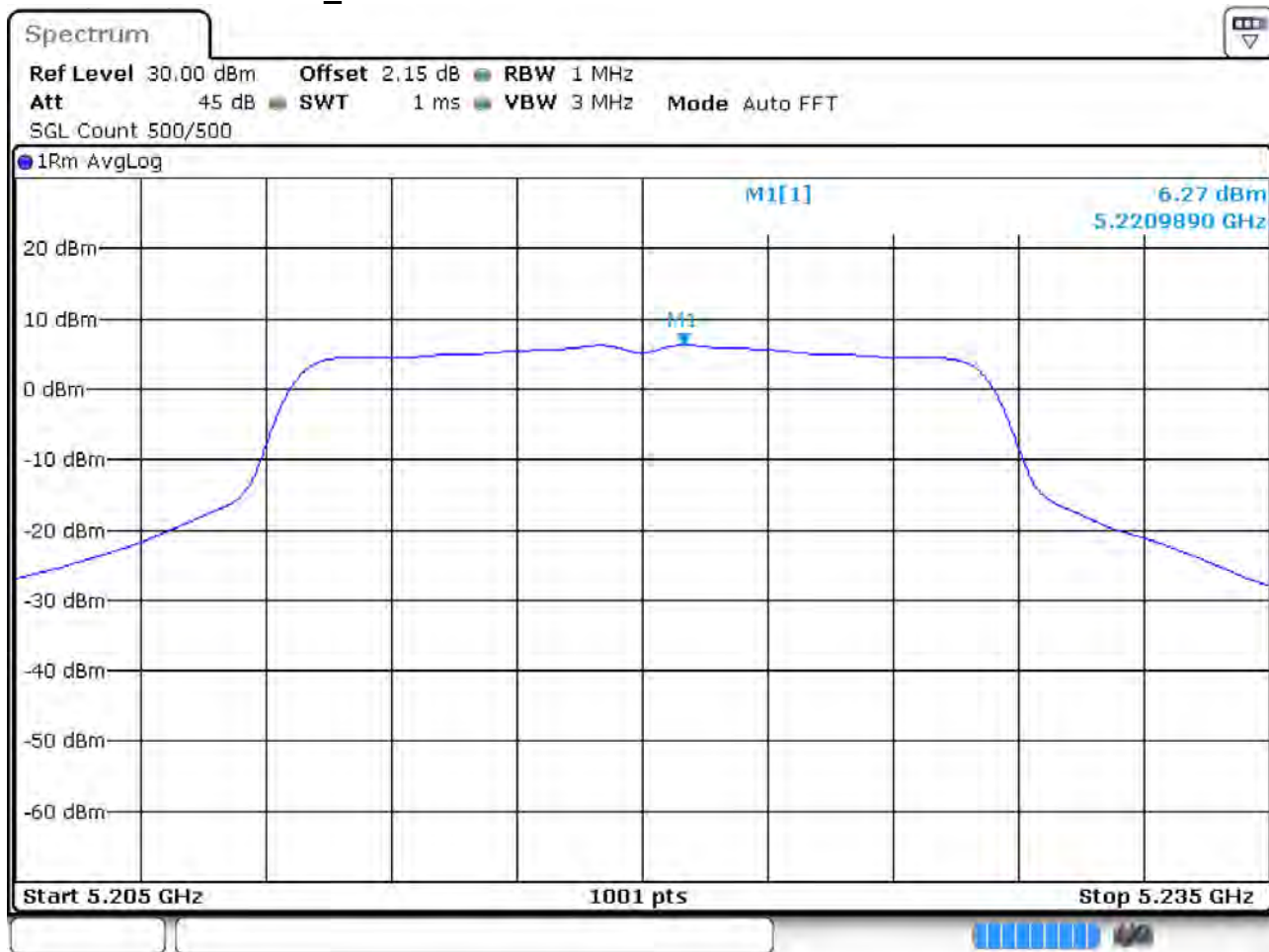


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4.8.2.4 11A20_44 ANT 2



Date: 4 JUN 2020 04:03:13

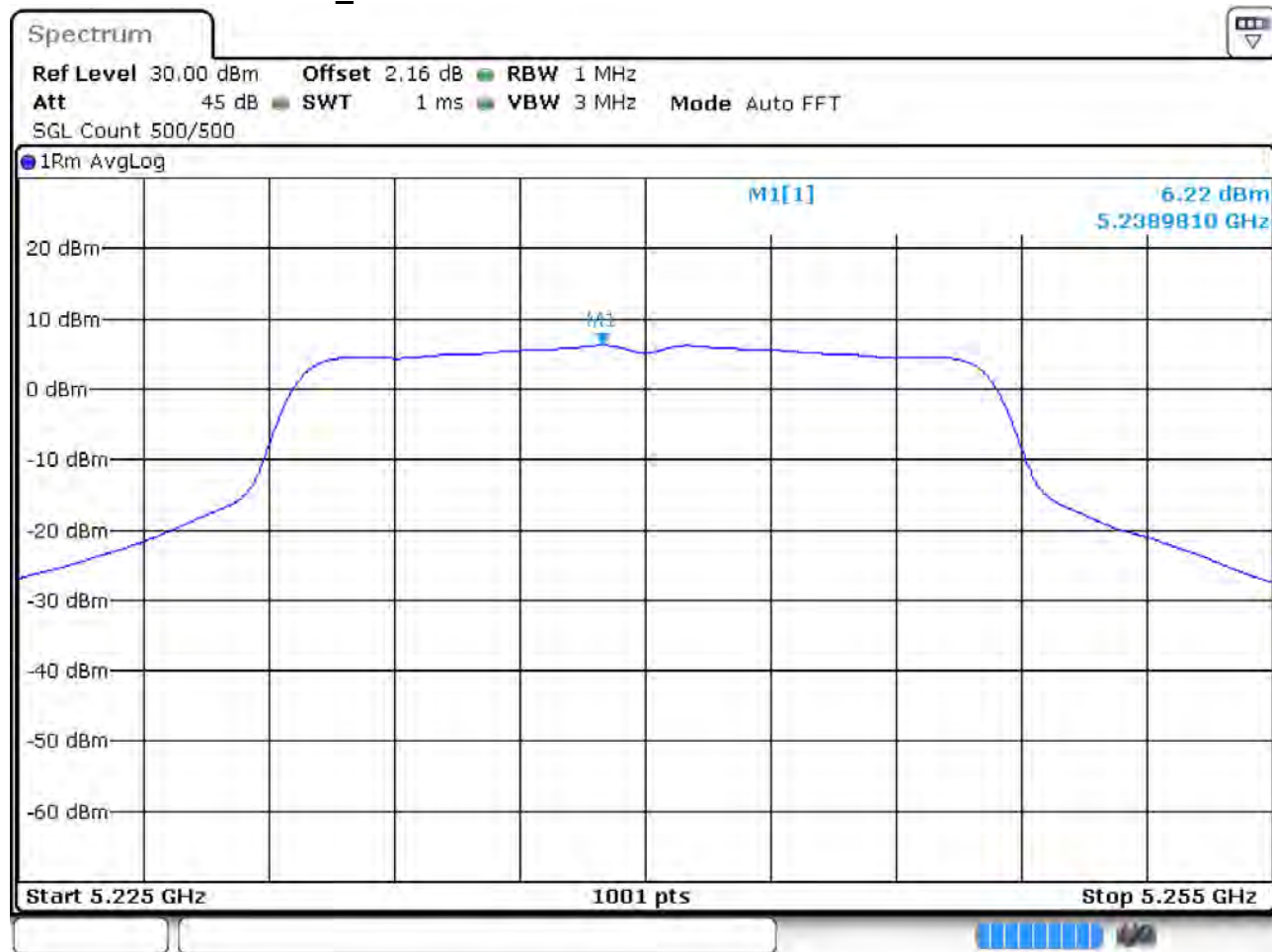


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4.8.2.5 11A20_48 ANT 1



Date: 4 JUN 2020 14:18:03

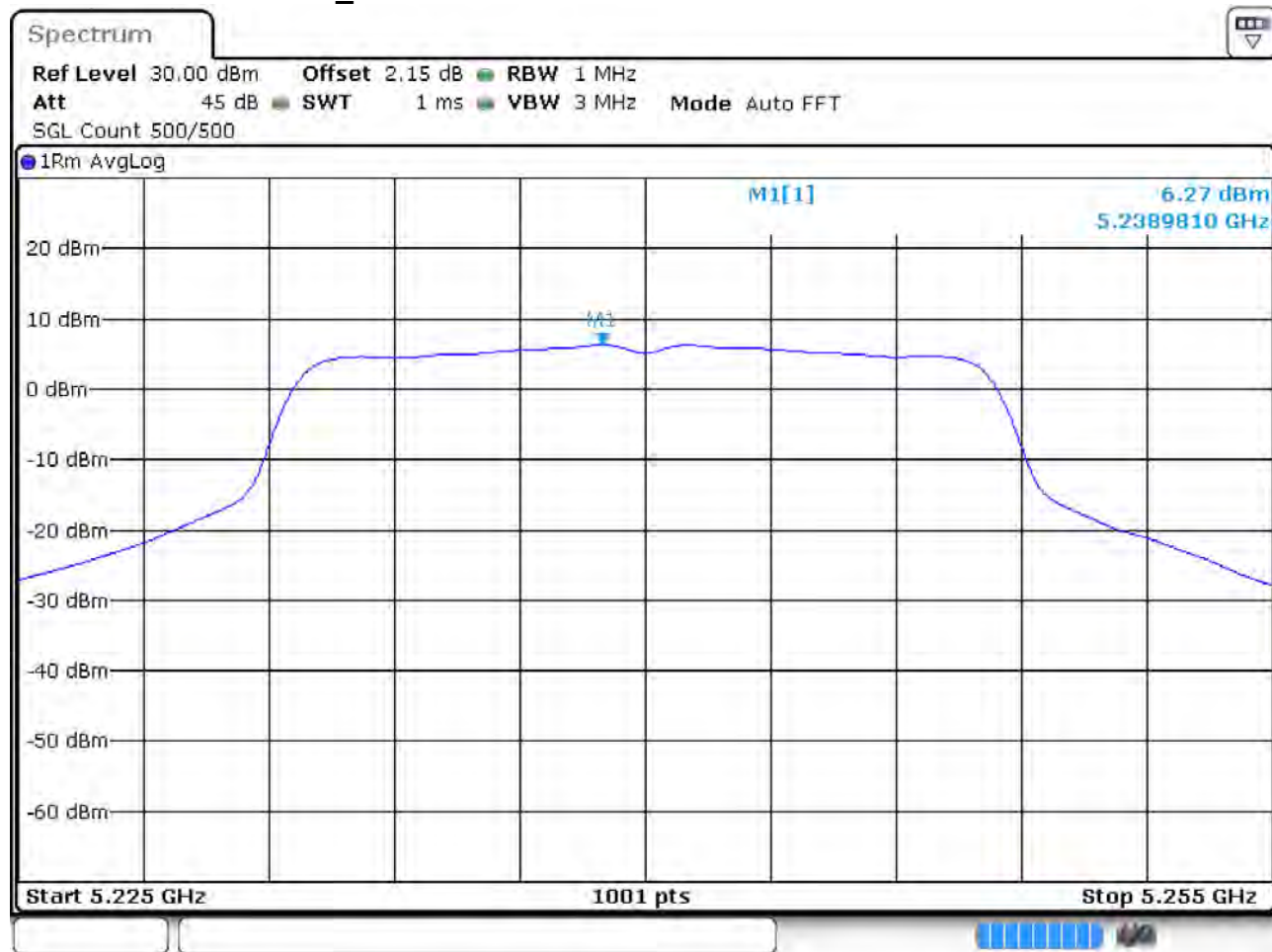


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4.8.2.6 11A20_48 ANT 2



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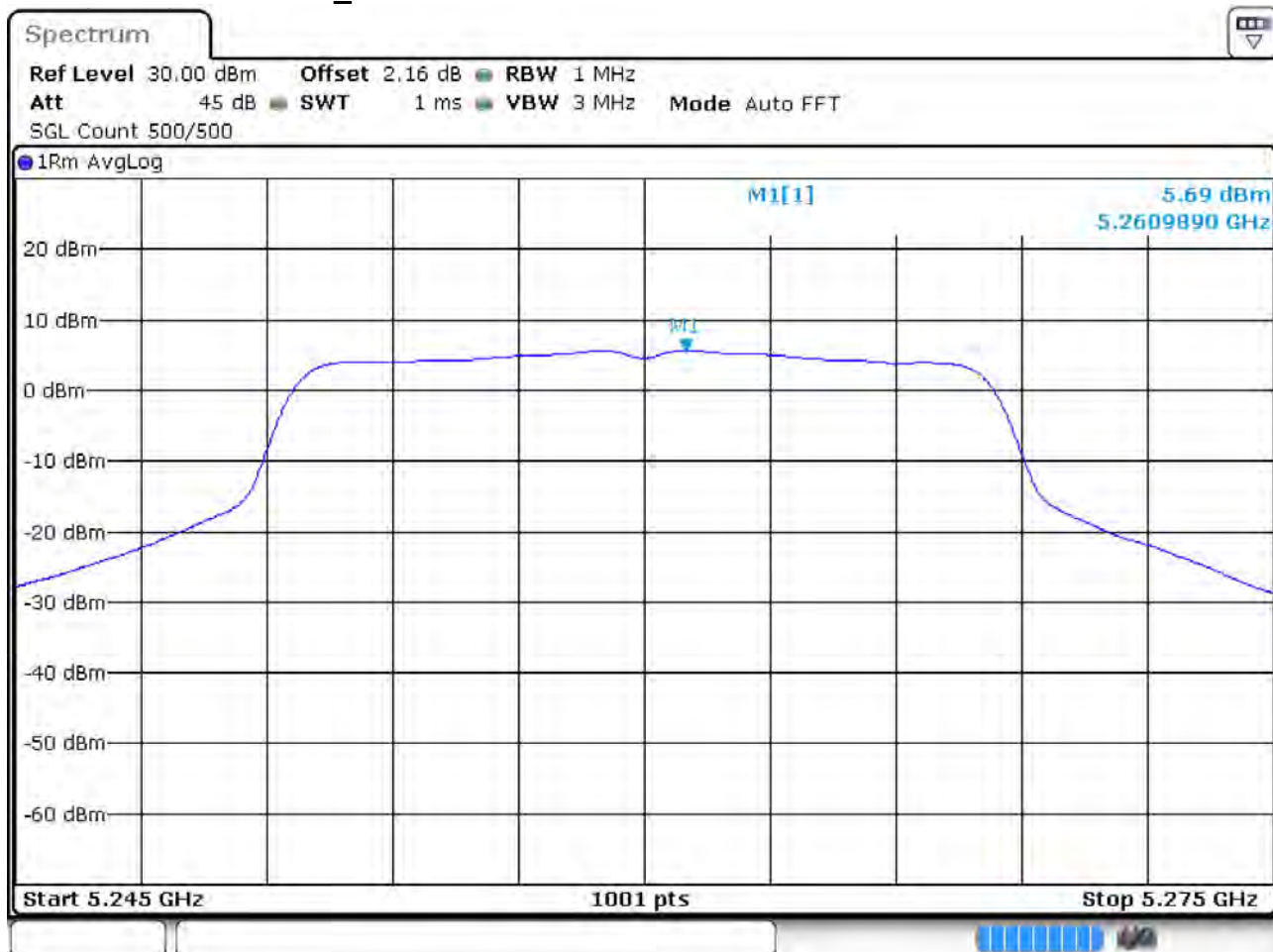


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4.8.2.7 11A20_52 ANT 1



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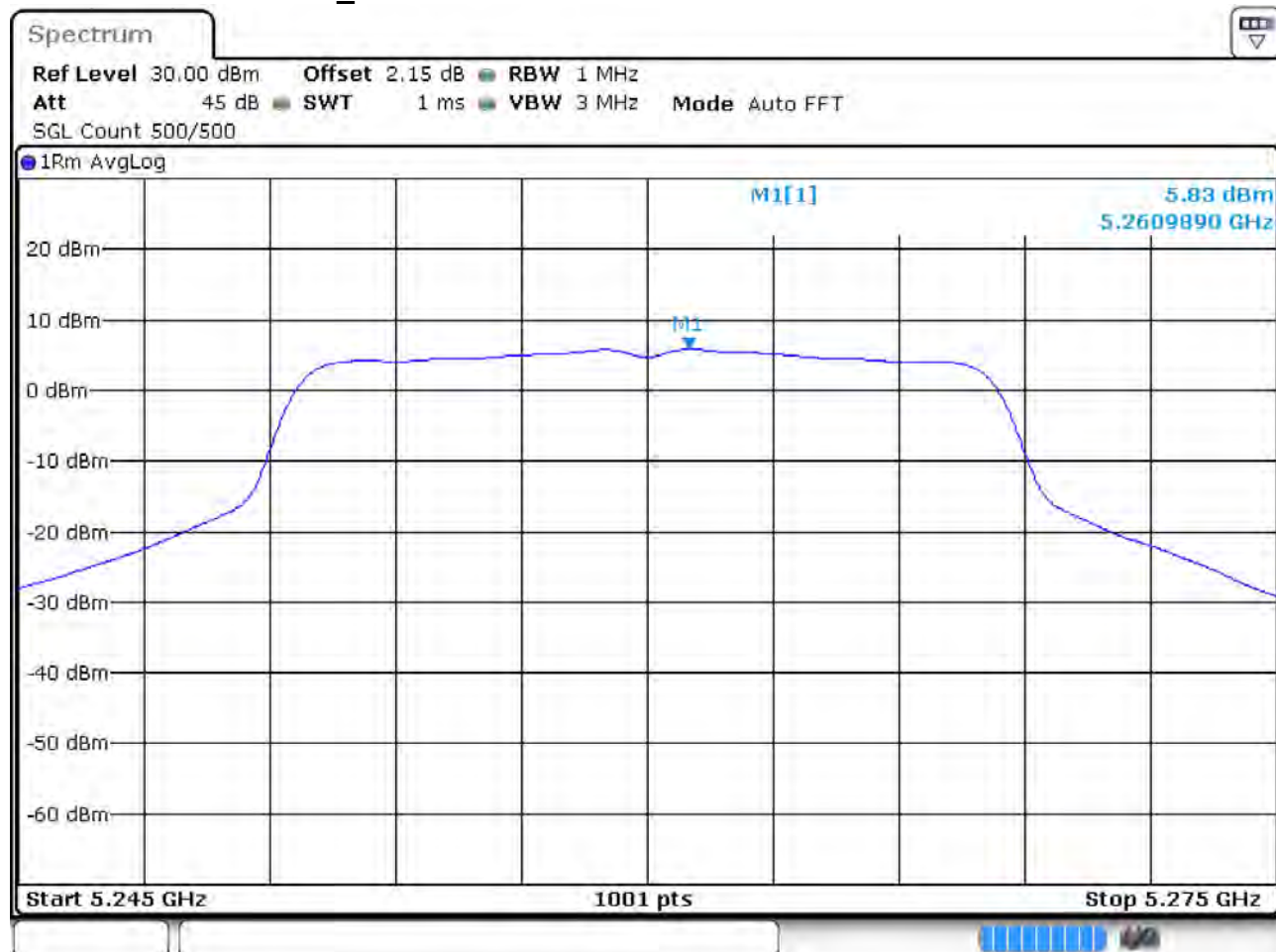


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4.8.2.8 11A20_52 ANT 2



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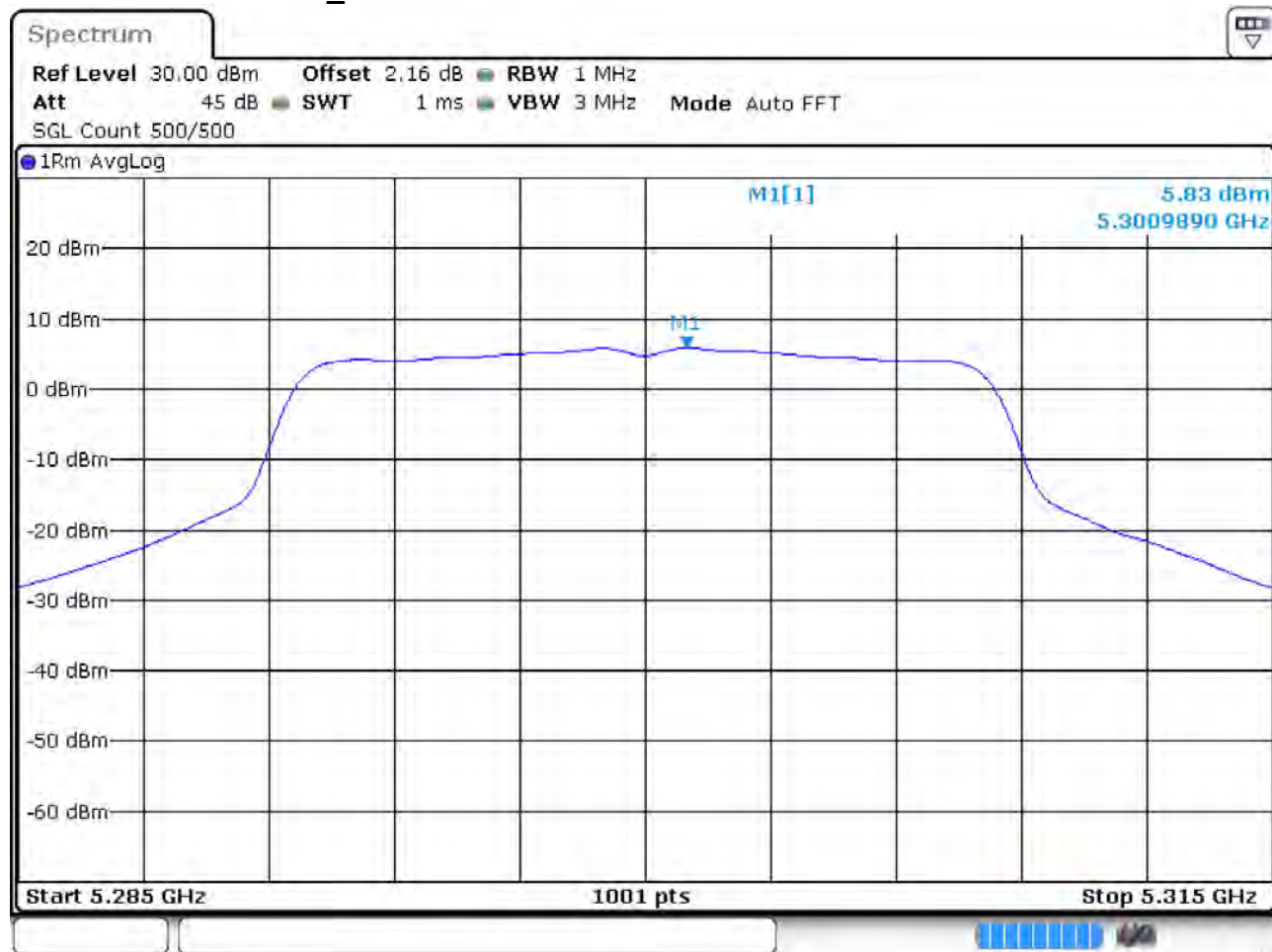


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4.8.2.9 11A20_60 ANT 1



Date: 4 JUN 2020 14:20:58

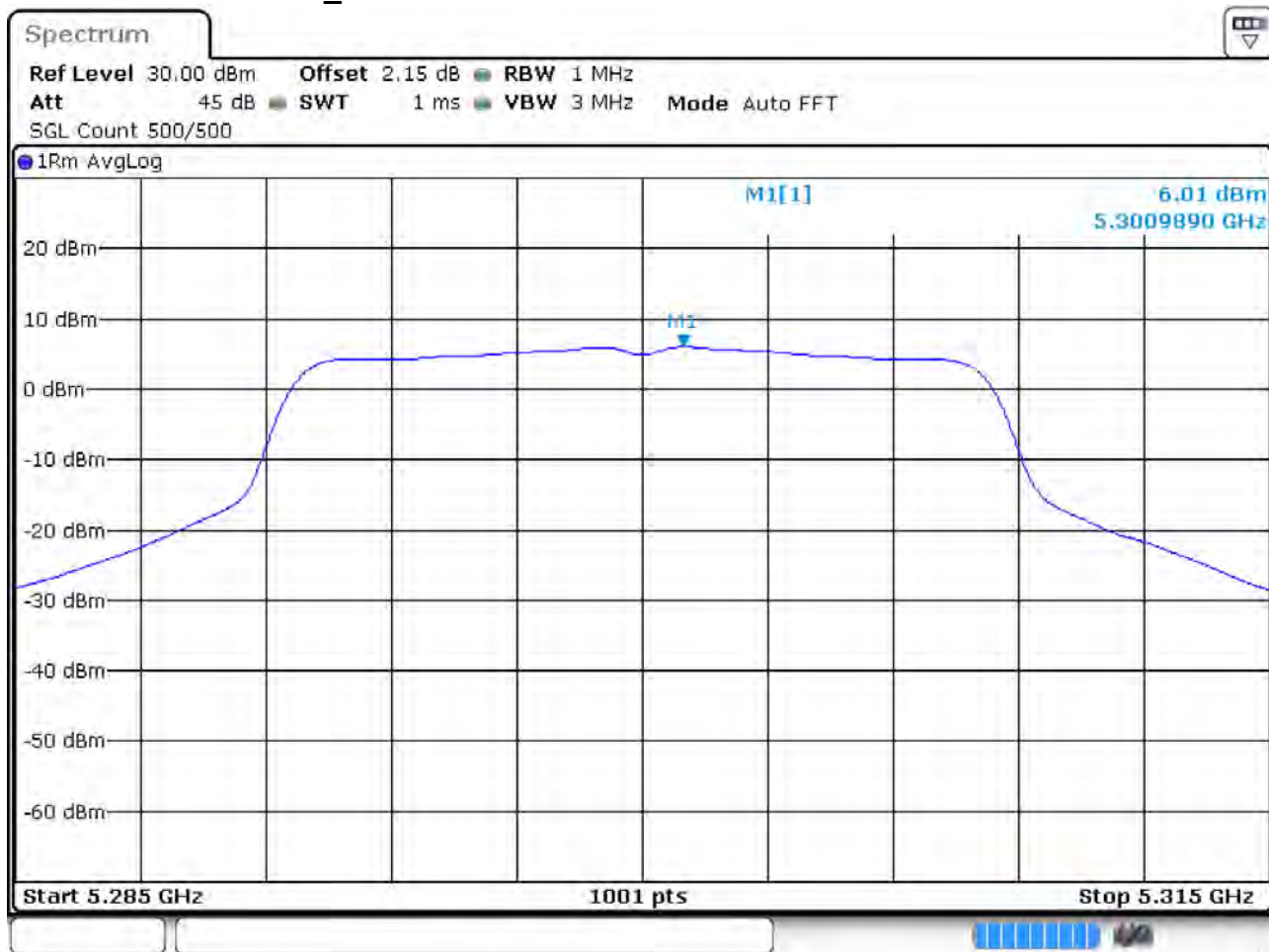


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4.8.2.10 11A20_60 ANT 2



Date: 4 JUN 2020 04:14:38



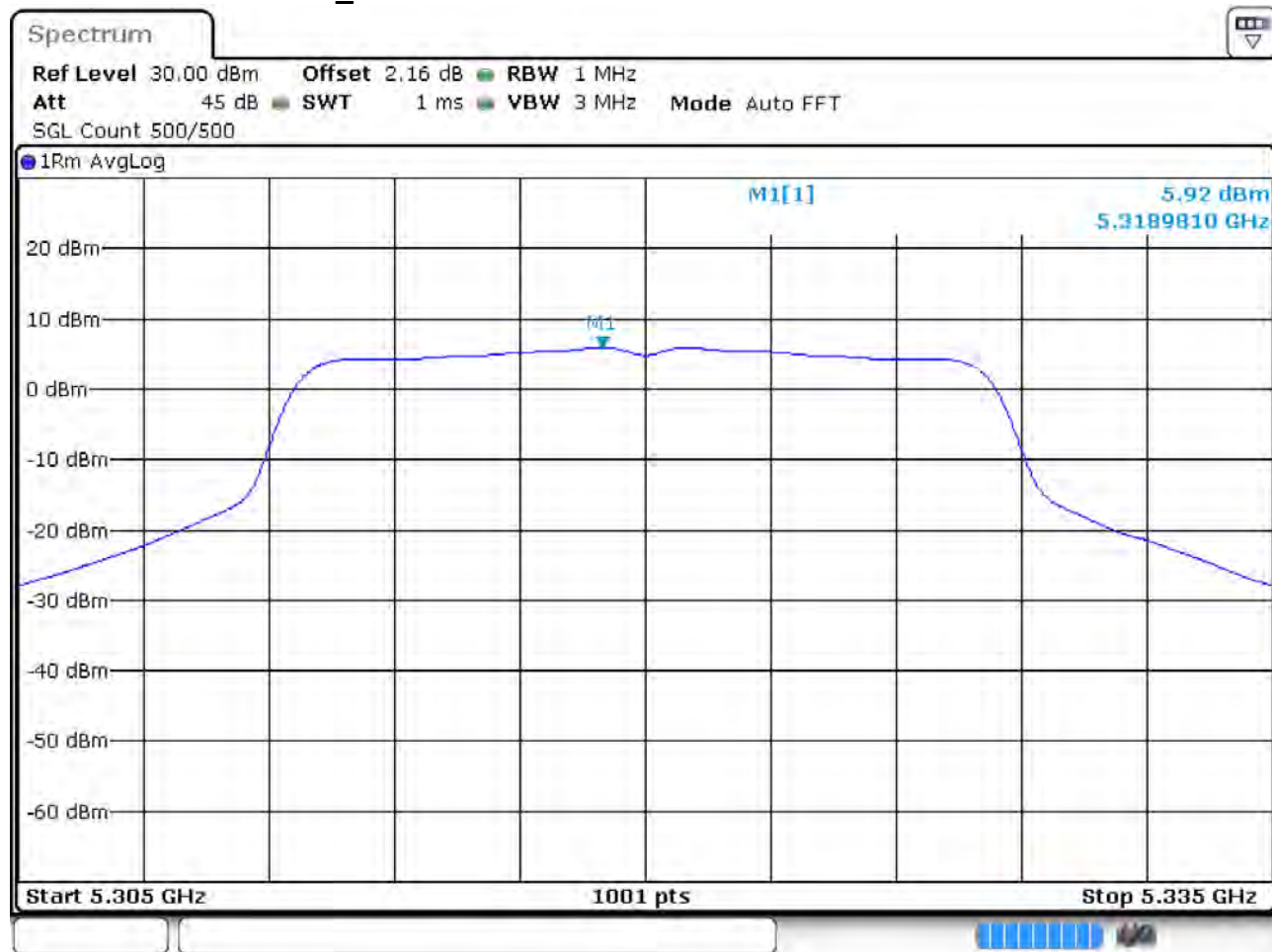
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4.8.2.11

11A20_64 ANT 1



Date: 4 JUN 2020 14:22:17



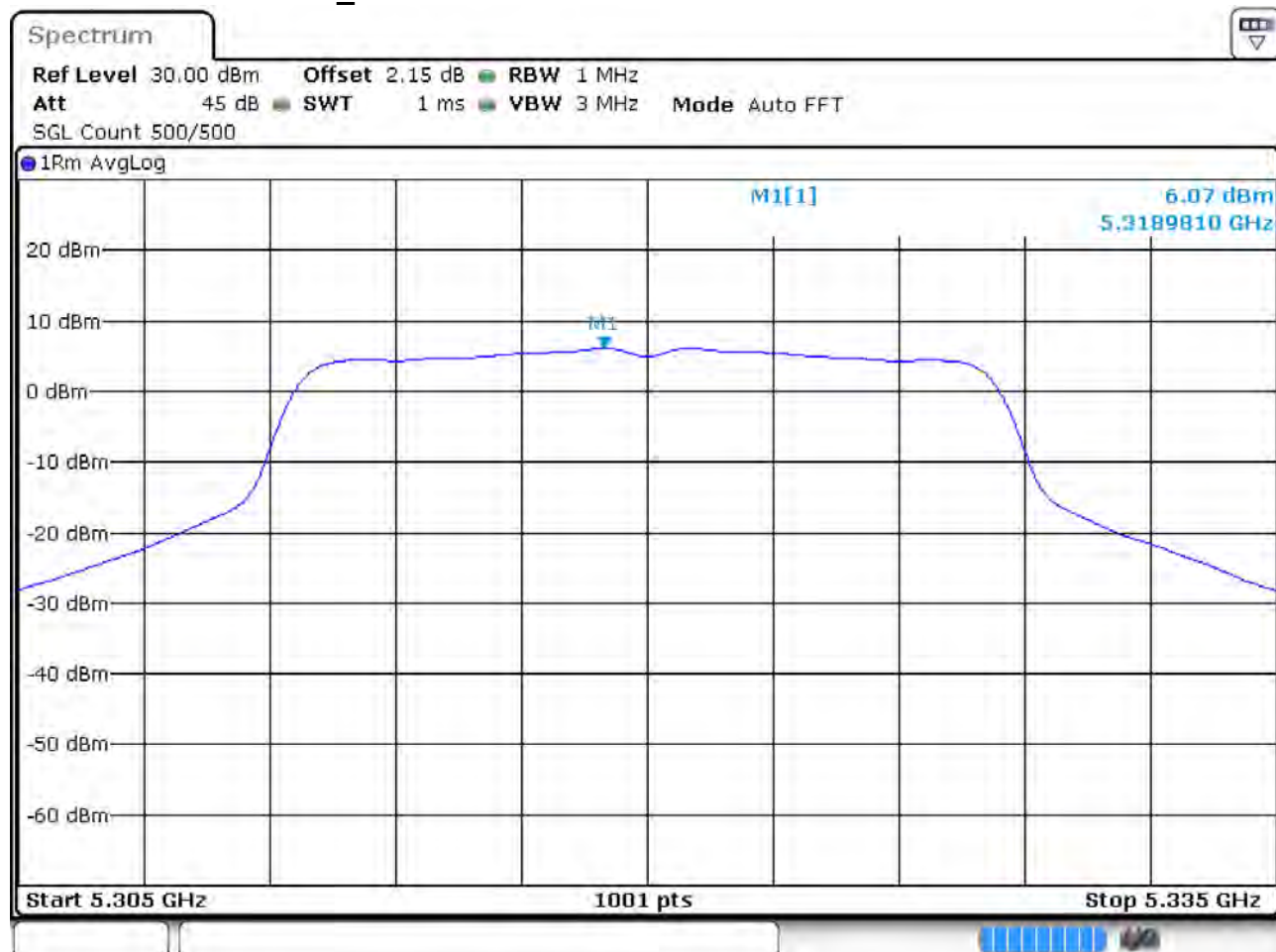
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4.8.2.12

11A20_64 ANT 2



Date: 4 JUN 2020 04:15:59



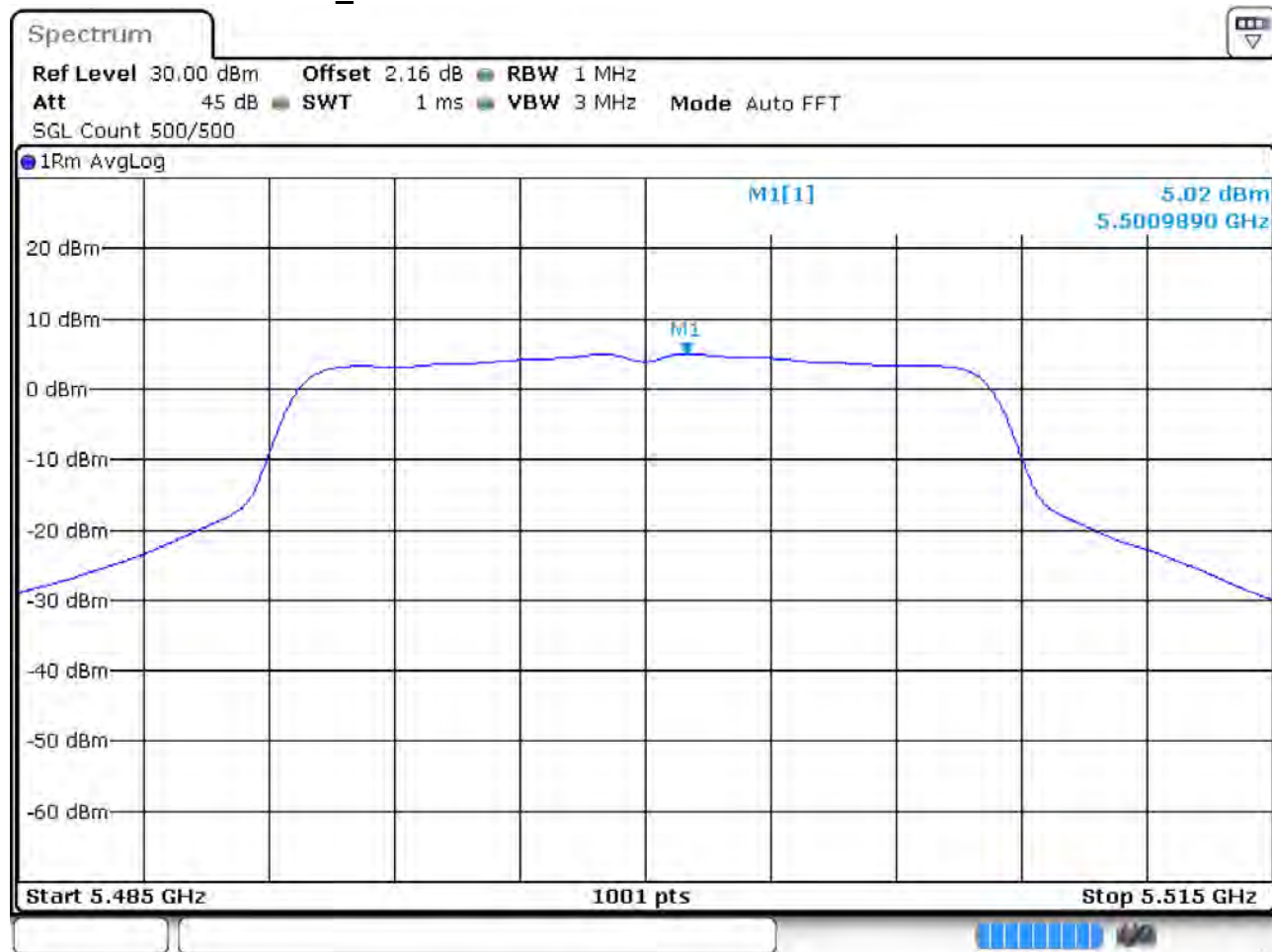
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4.8.2.13

11A20_100 ANT 1



Date: 4 JUN 2020 14:24:04

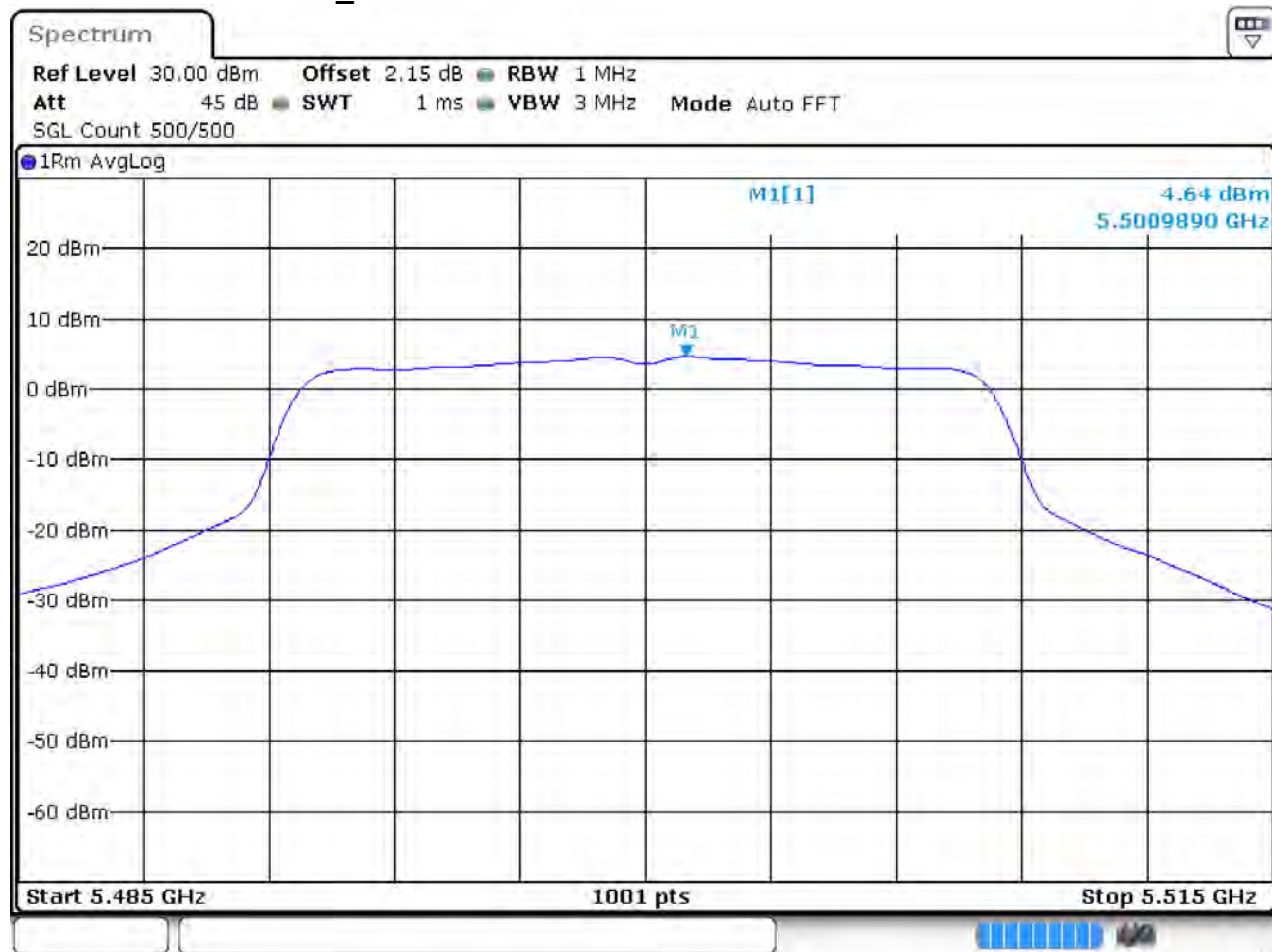


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4.8.2.14 11A20_100 ANT 2



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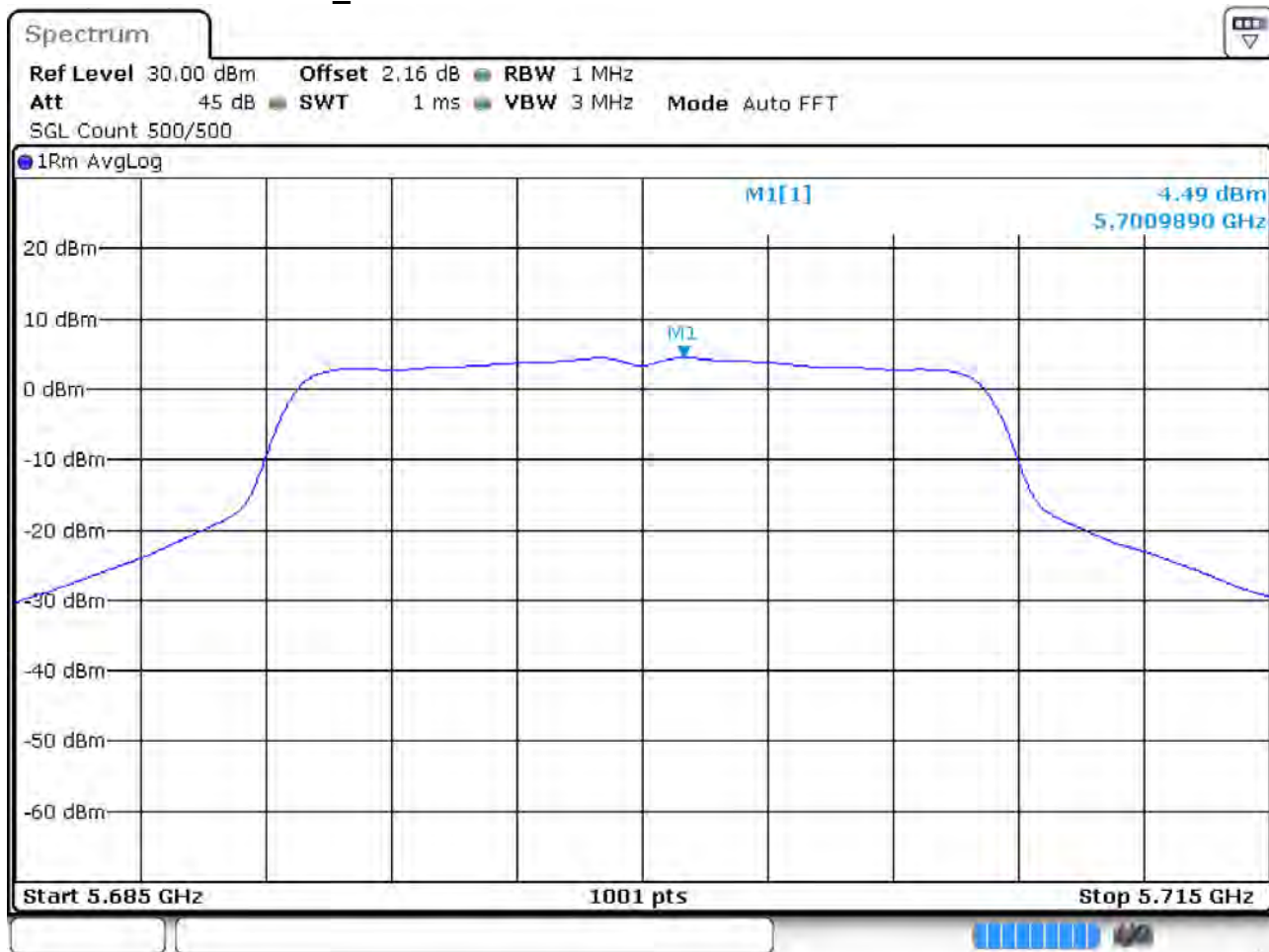


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4.8.2.15 11A20_140 ANT 1



Date: 4 JUN 2020 14:29:09



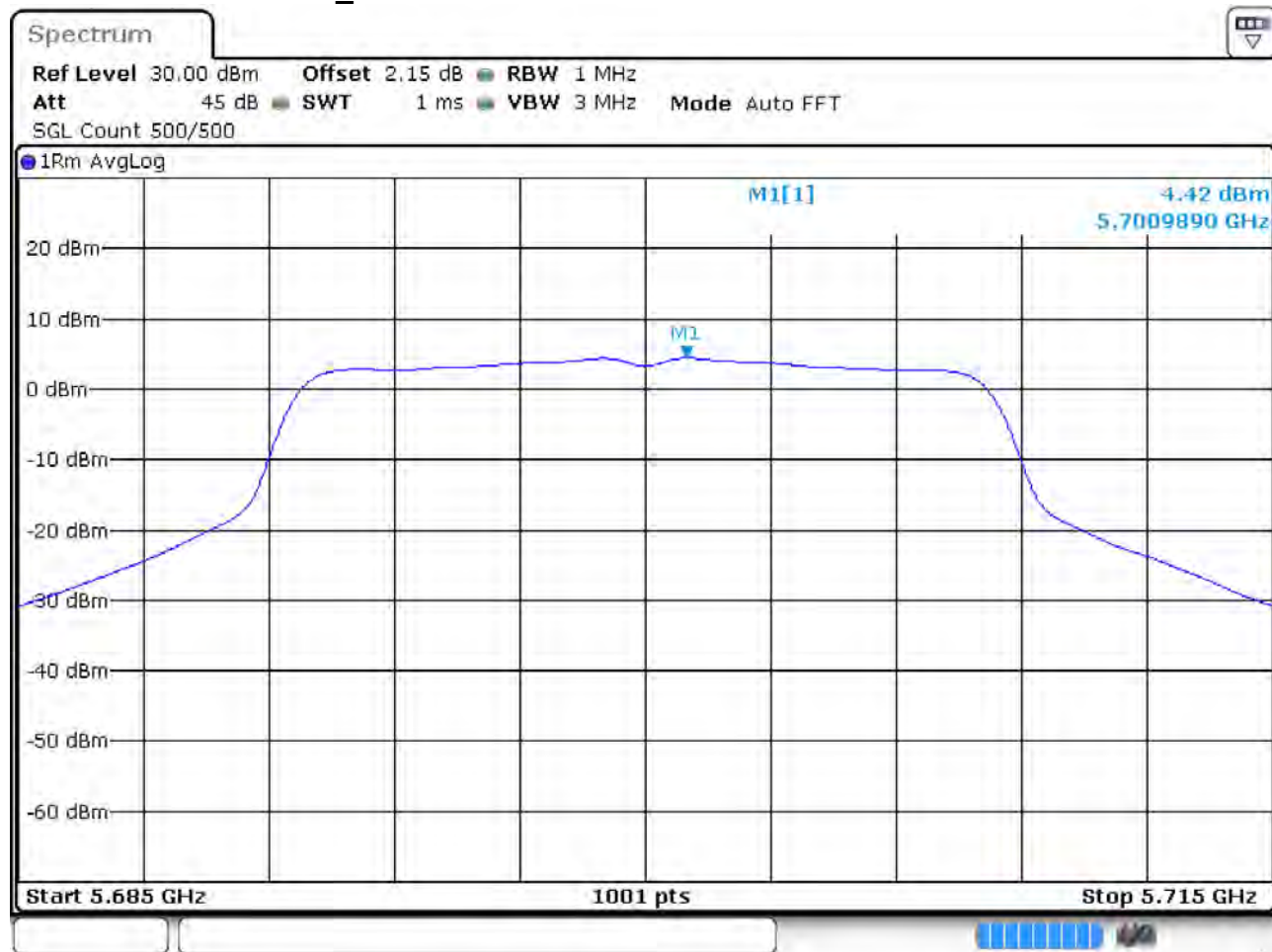
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4.8.2.16

11A20_140 ANT 2



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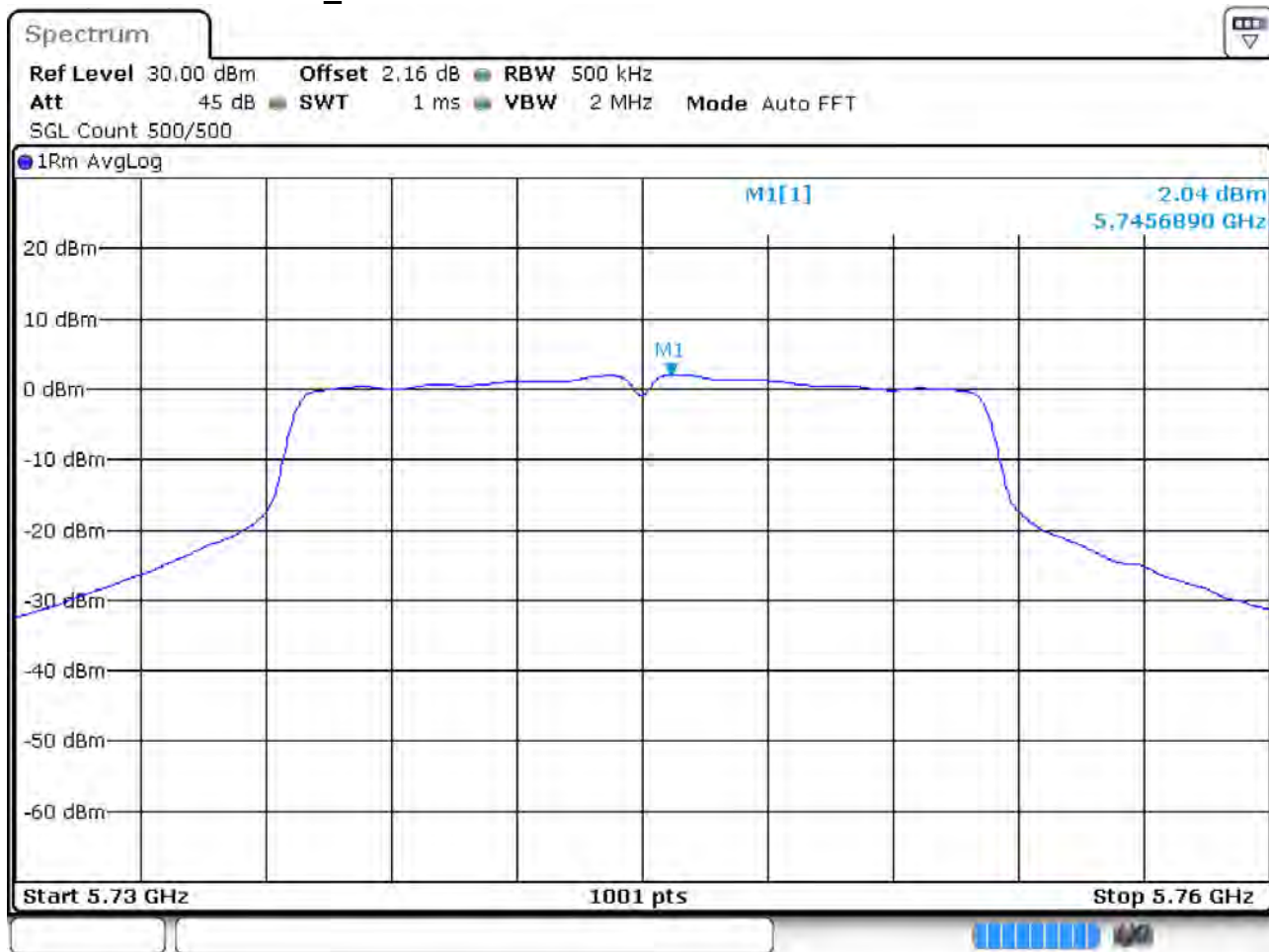


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4.8.2.17 11A20_149 ANT 1

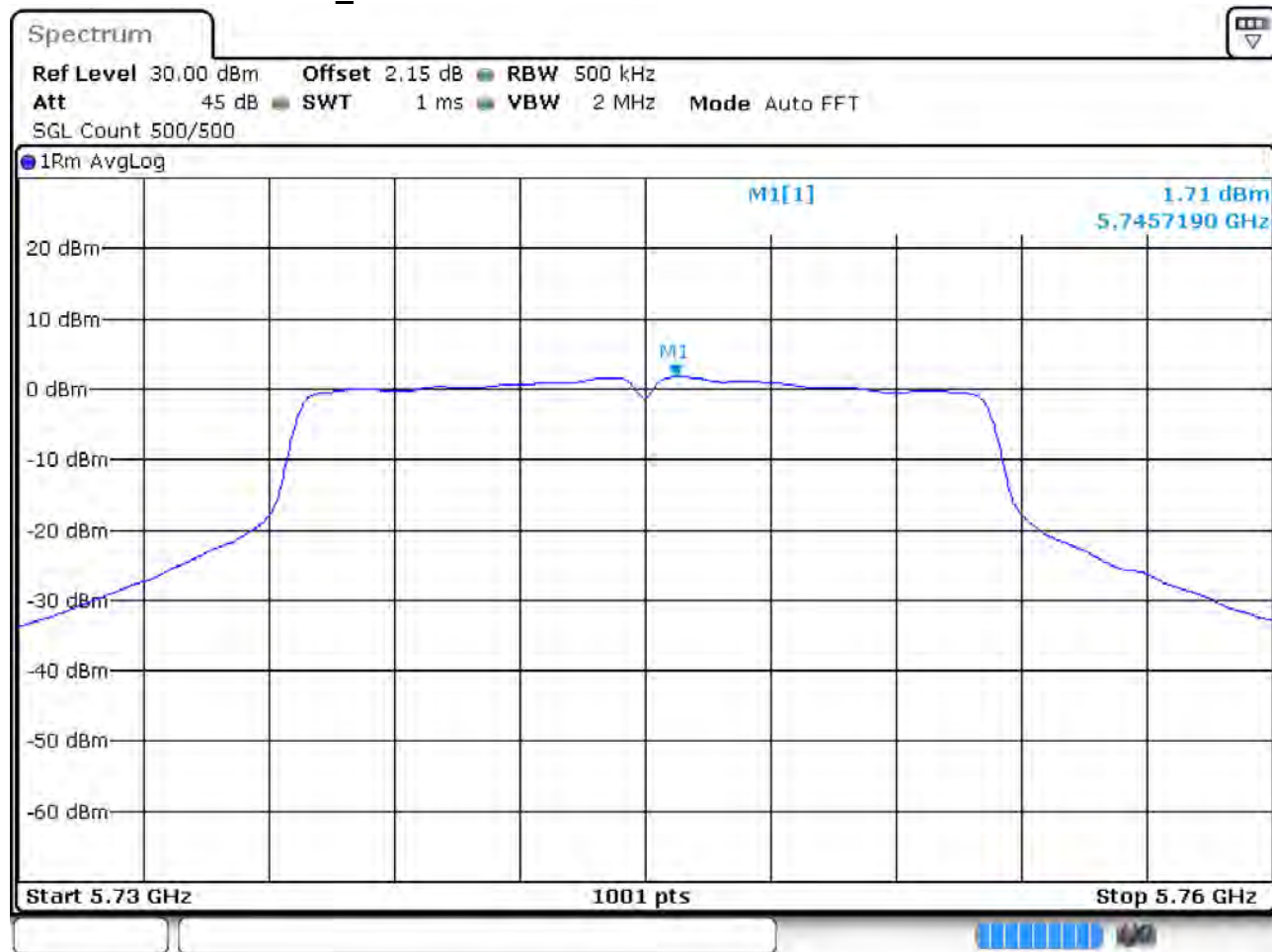


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4.8.2.18

11A20_149 ANT 2



Date: 4 JUN 2020 04:22:40



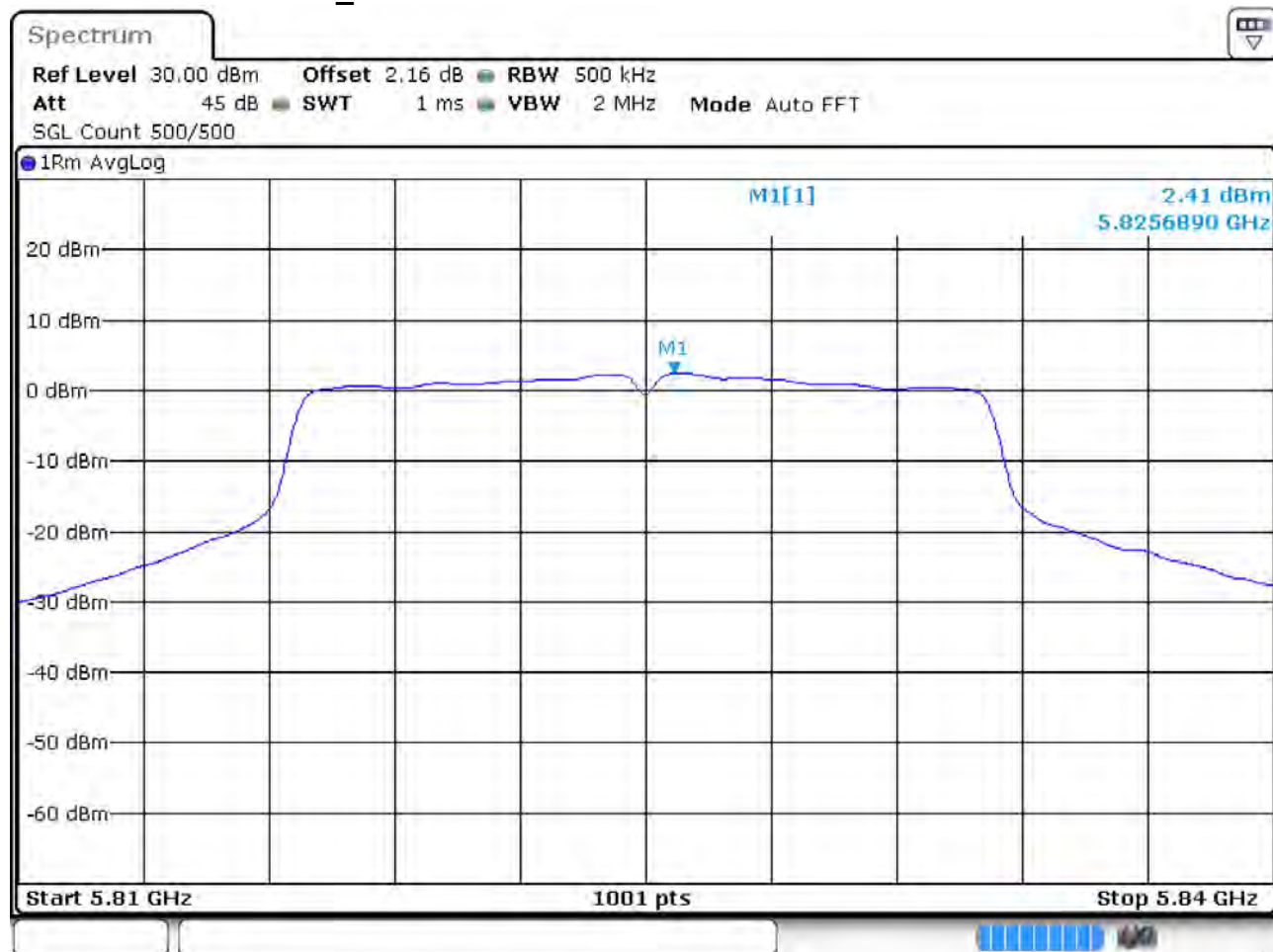
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4.8.2.19

11A20_165 ANT 1



Date: 4 JUN 2020 14:35:52



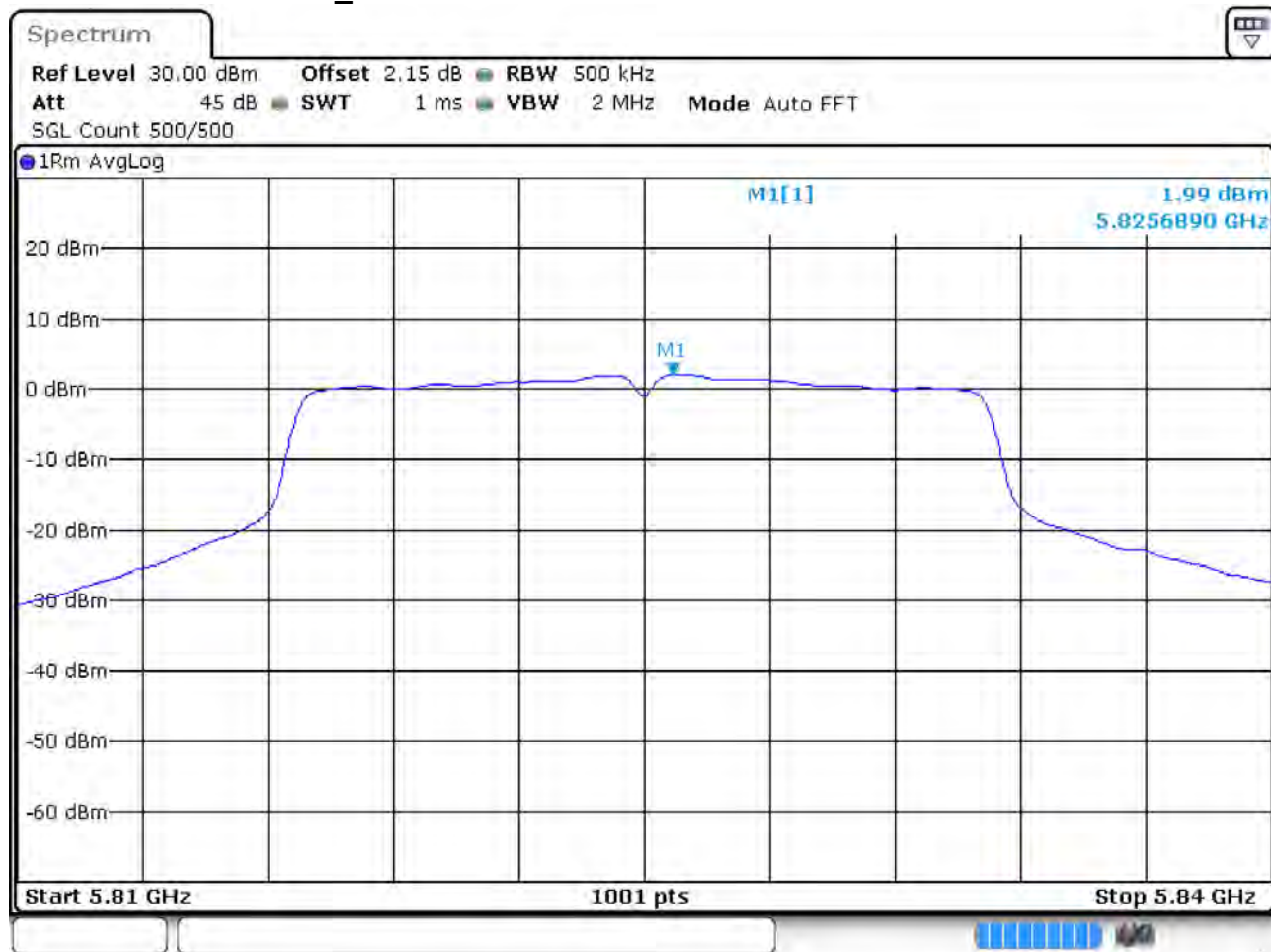
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4.8.2.20

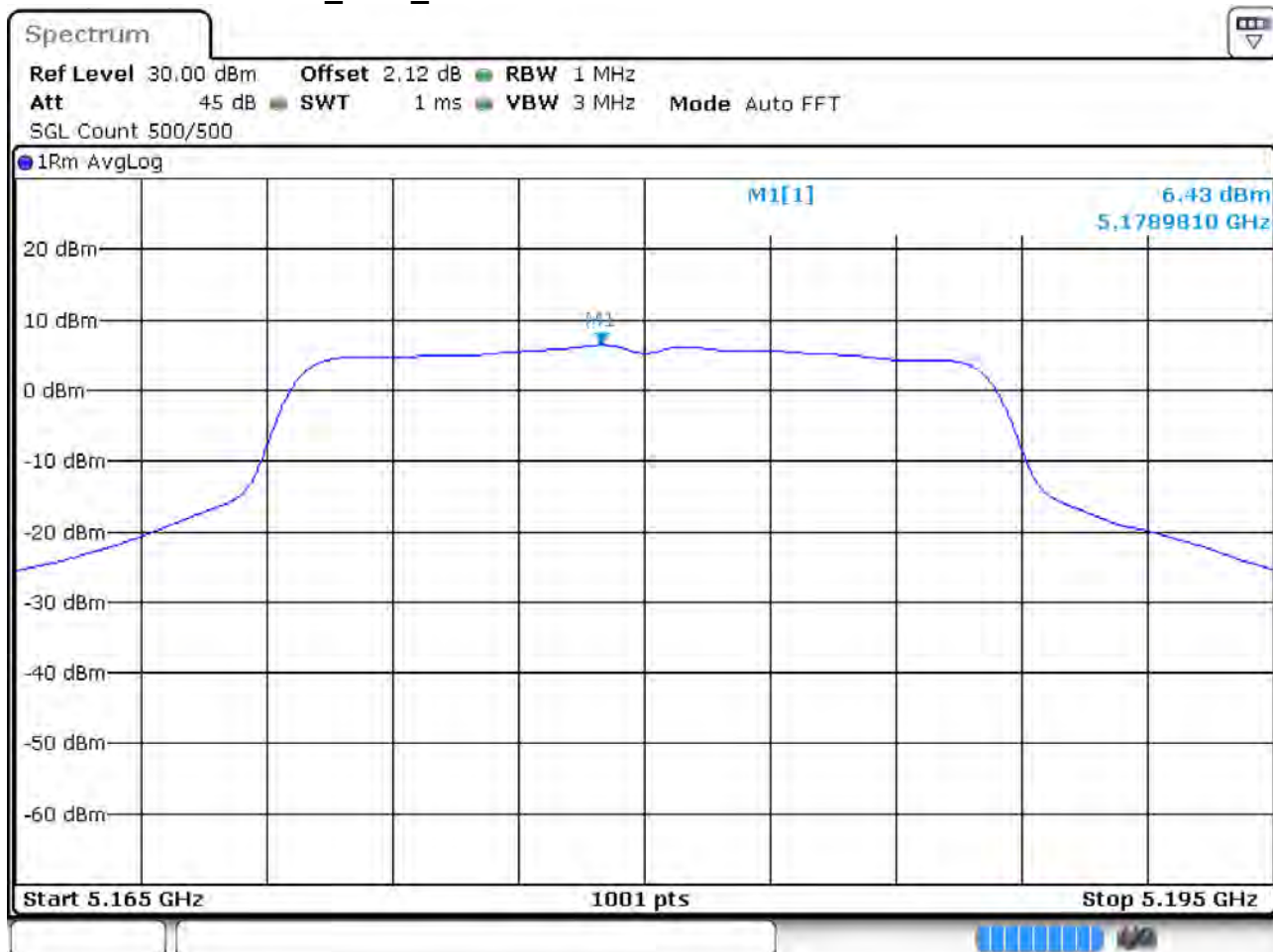
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4.8.2.21 11A20_CDD_36 ANT 1



Date: 4 JUN 2020 12:06:32

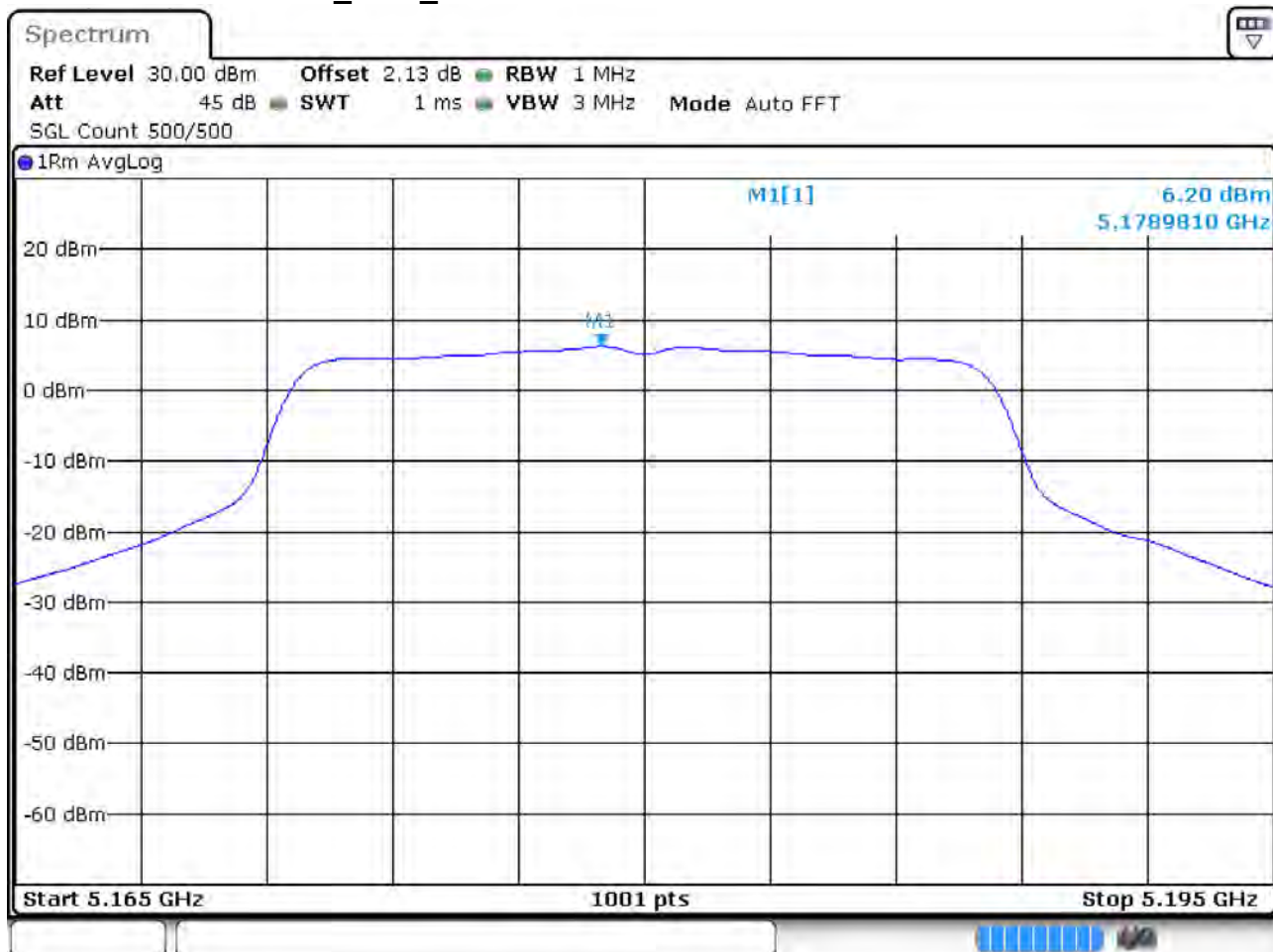


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4.8.2.22 11A20_CDD_36 ANT 2



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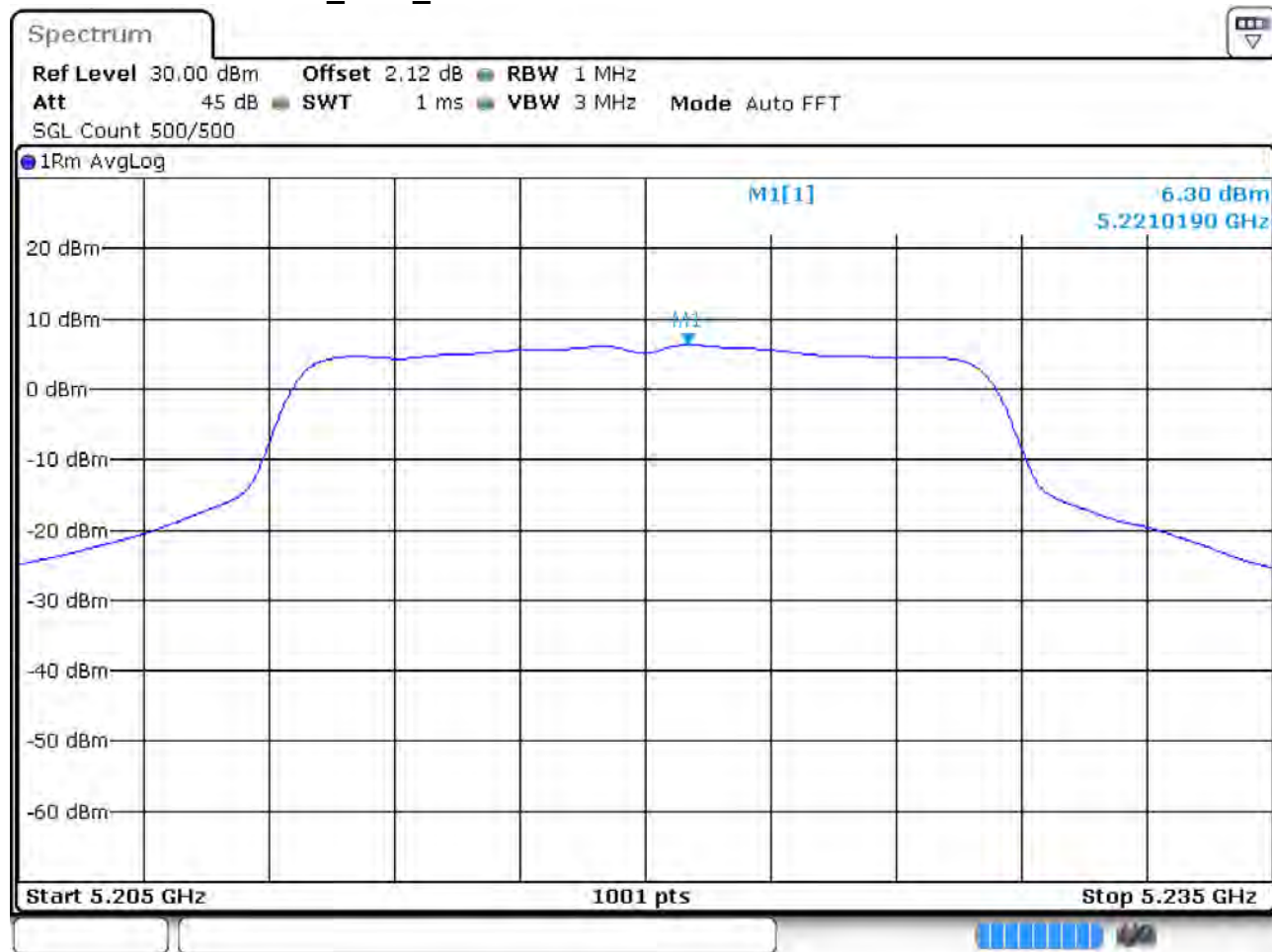


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4.8.2.23 11A20_CDD_44 ANT 1



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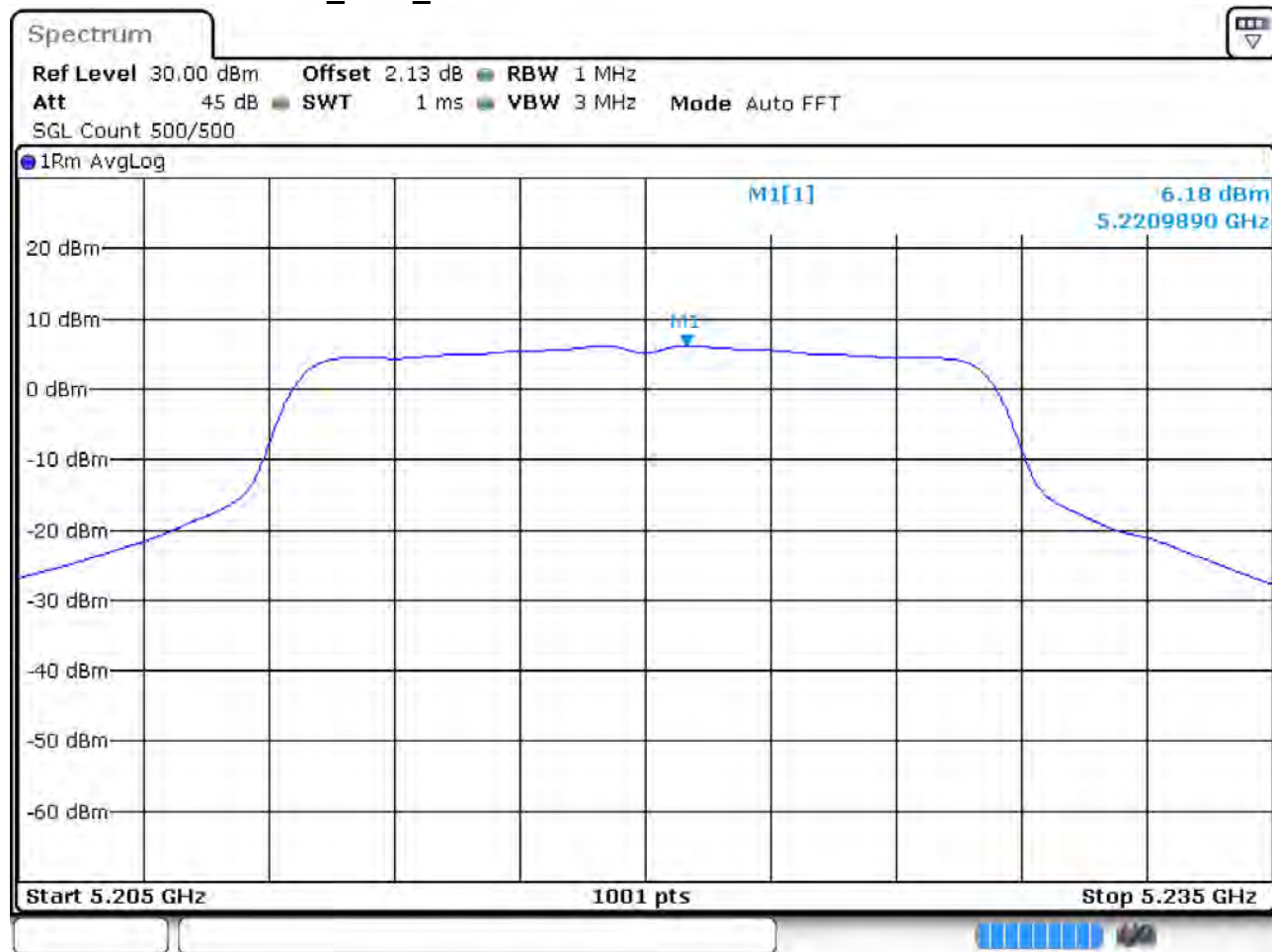


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4.8.2.24 11A20_CDD_44 ANT 2



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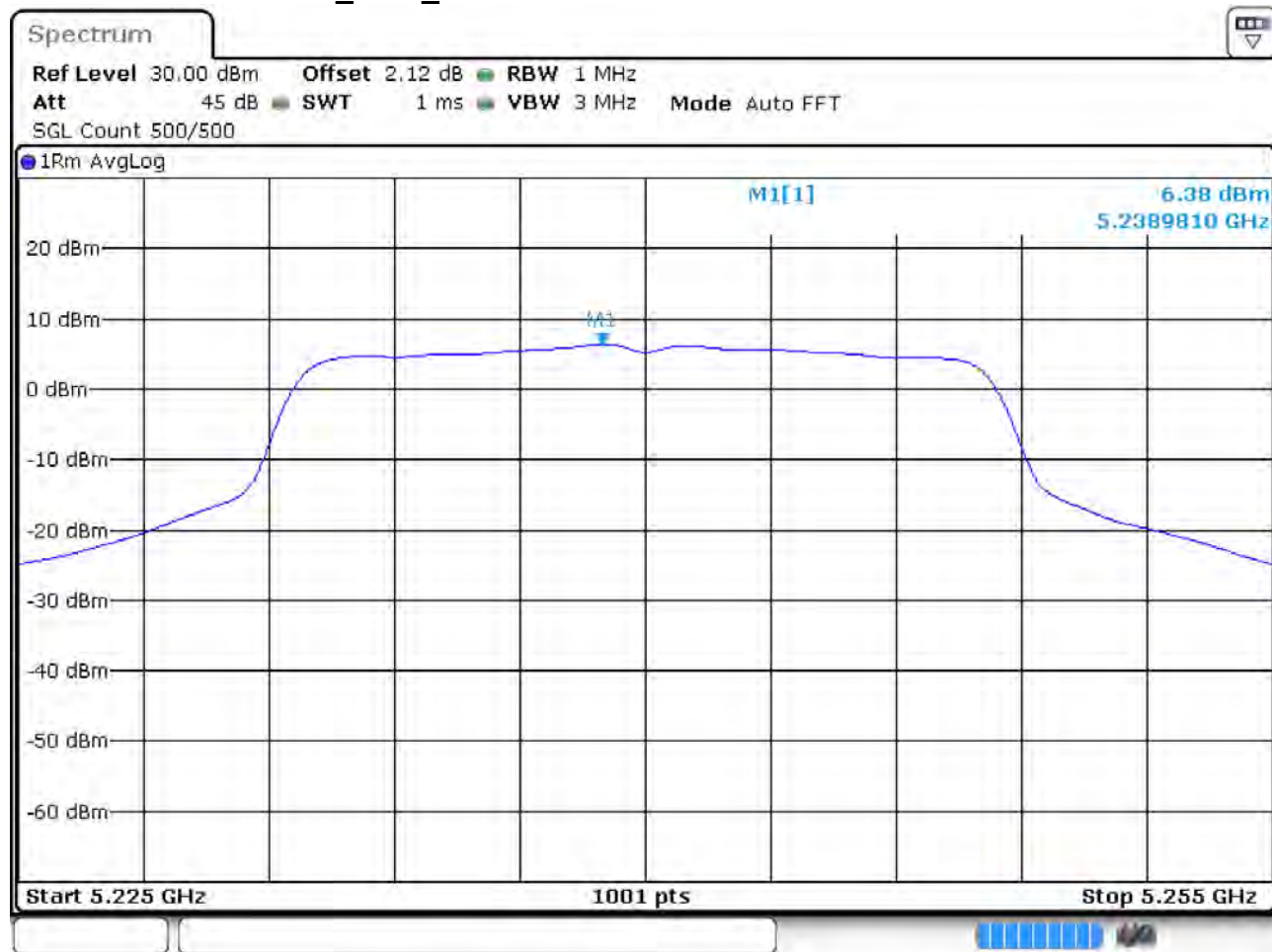
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4.8.2.25

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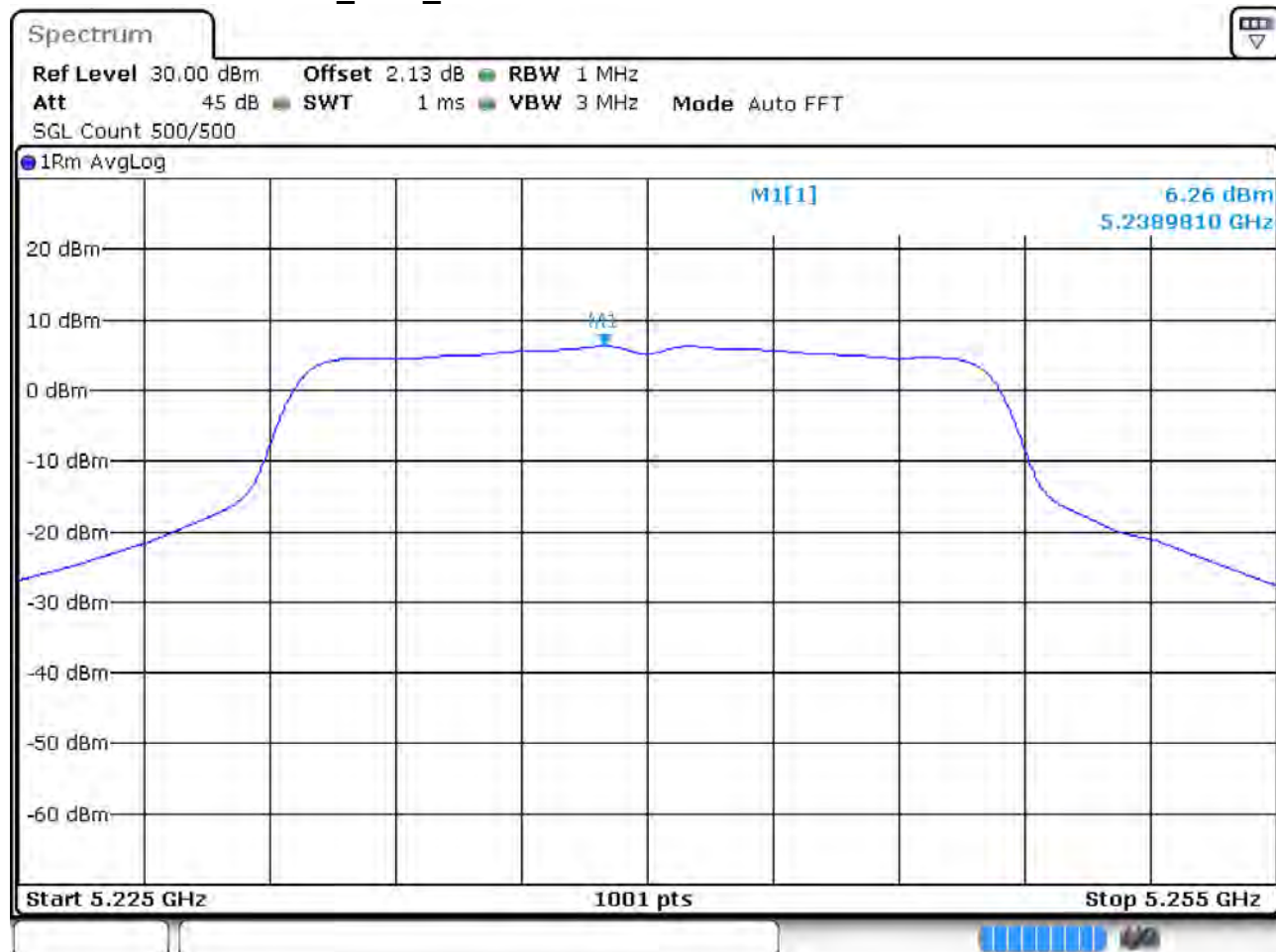
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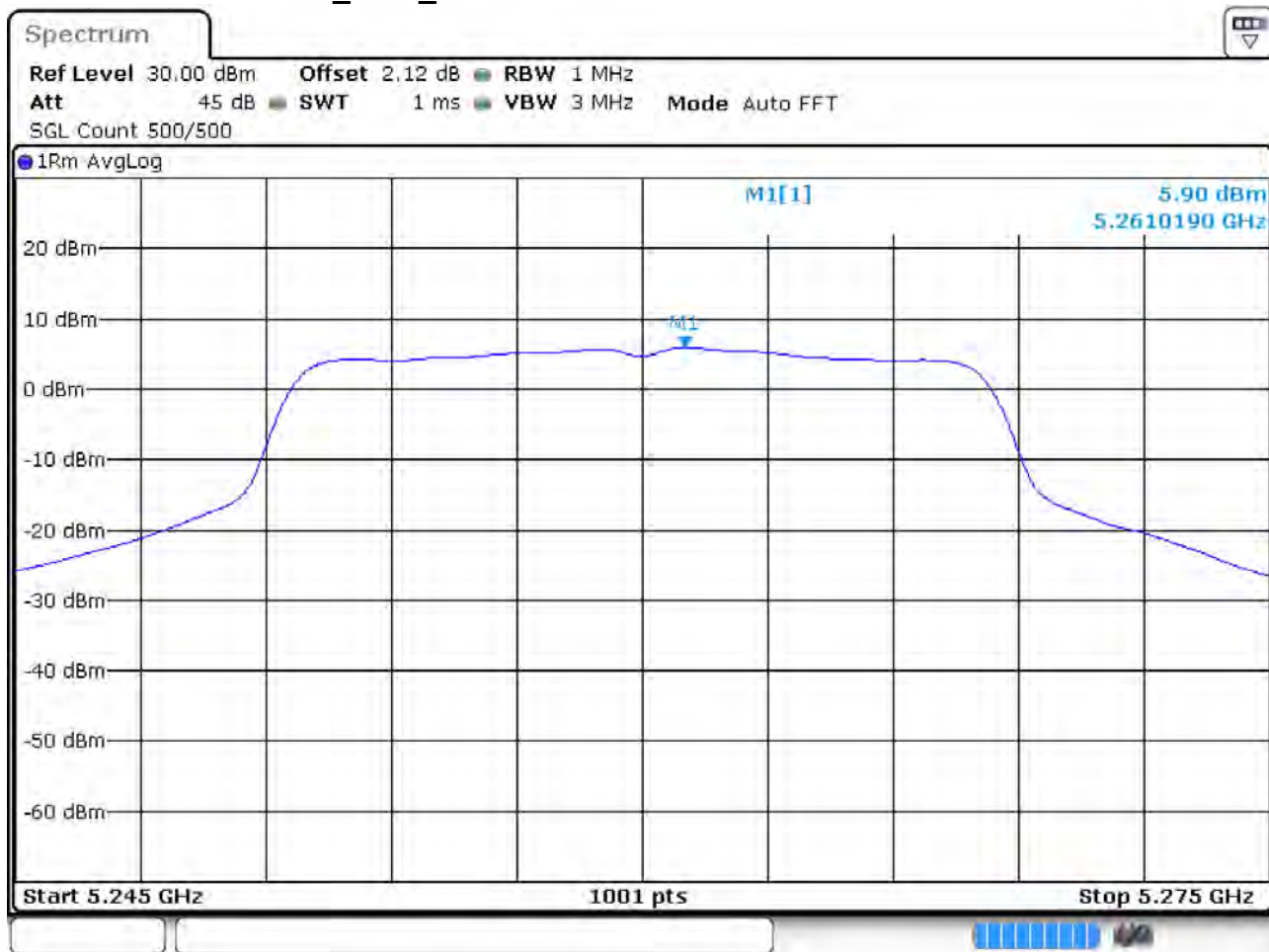


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4.8.2.27 11A20_CDD_52 ANT 1



Date: 4 JUN 2020 12:10:40

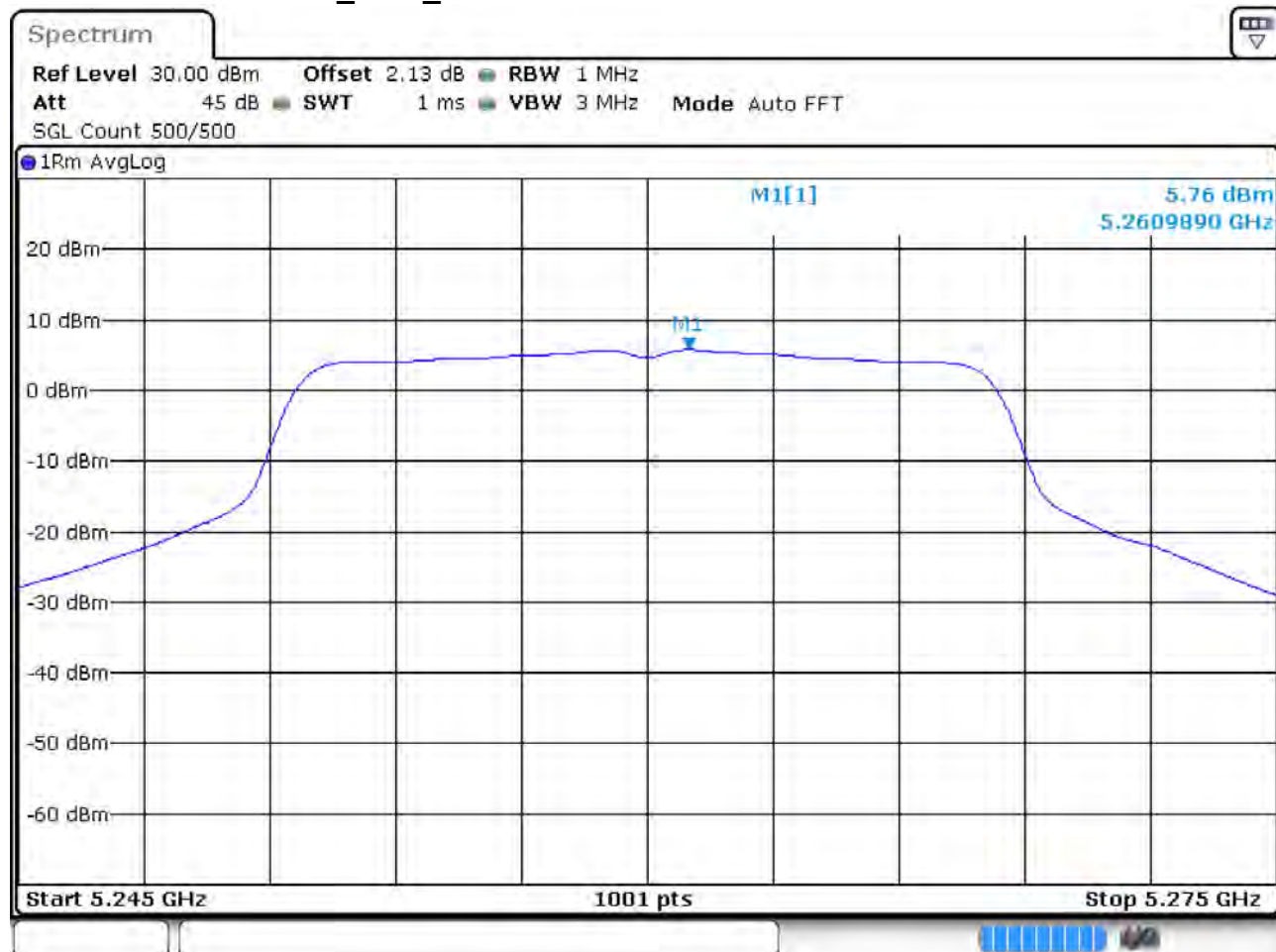


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4.8.2.28 11A20_CDD_52 ANT 2



Date: 4 JUN 2020 08:06:54

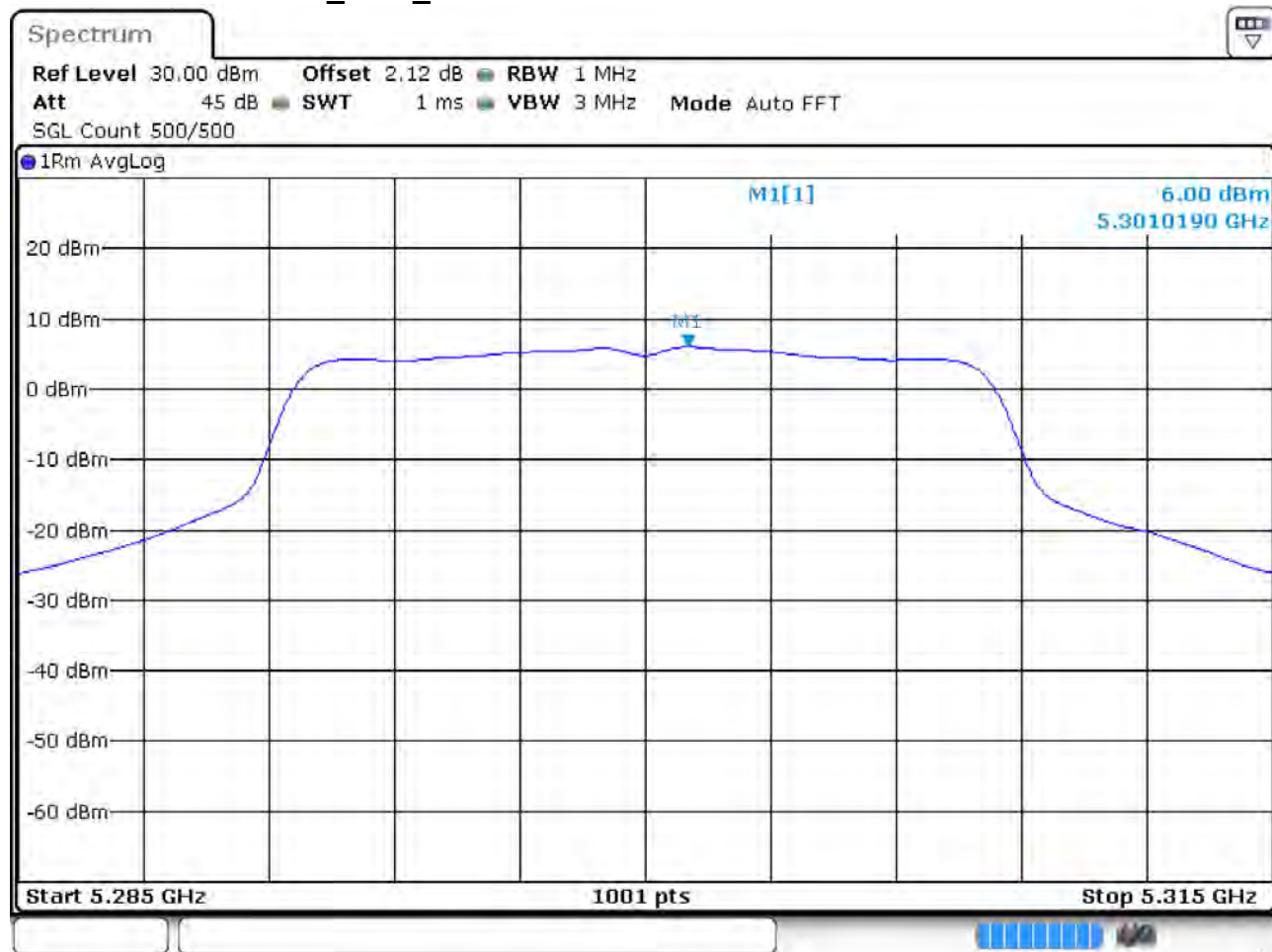


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4.8.2.29 11A20_CDD_60 ANT 1



Date: 4 JUN 2020 12:11:55

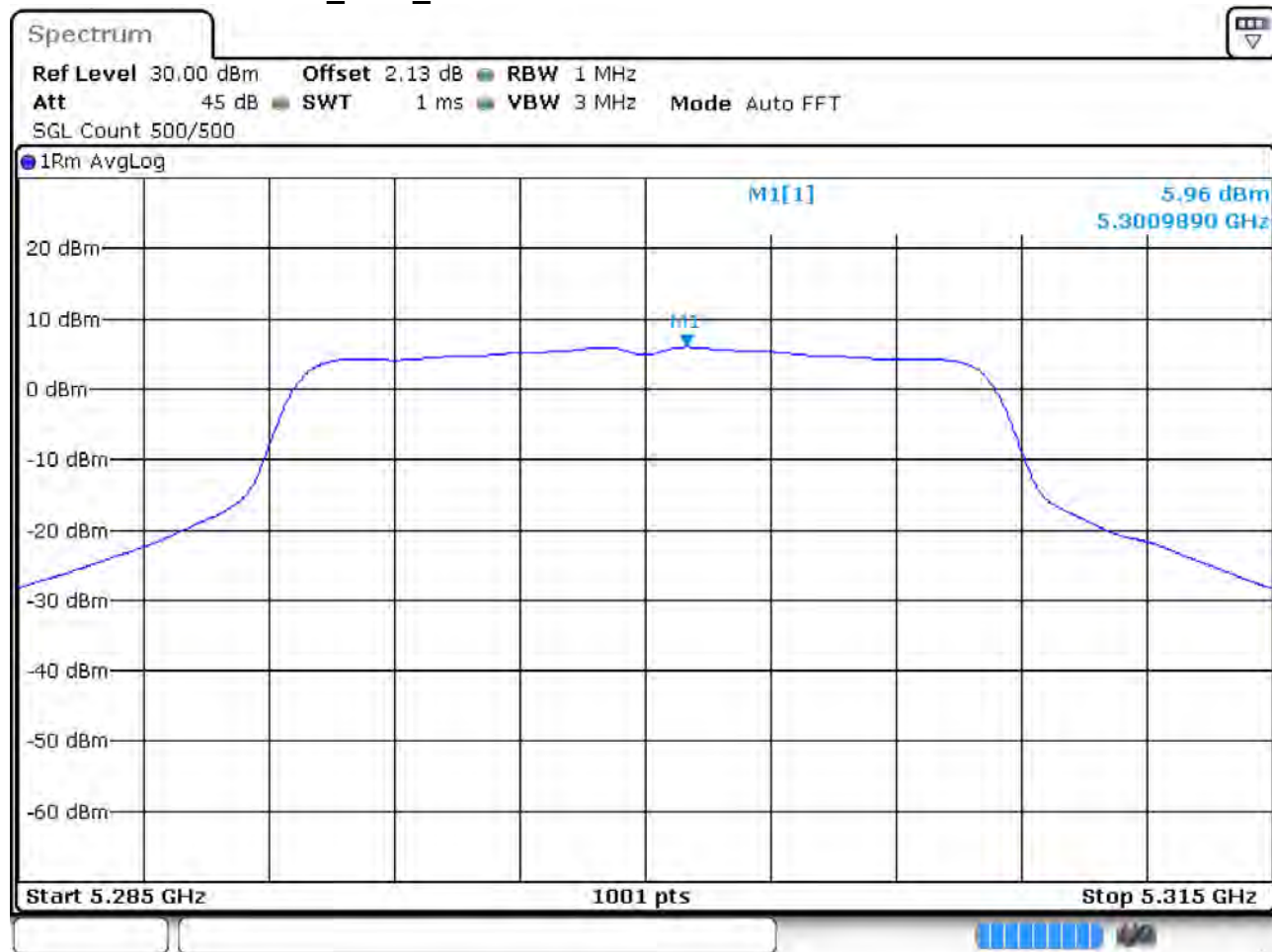


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4.8.2.30 11A20_CDD_60 ANT 2



Date: 4 JUN 2020 08:08:11



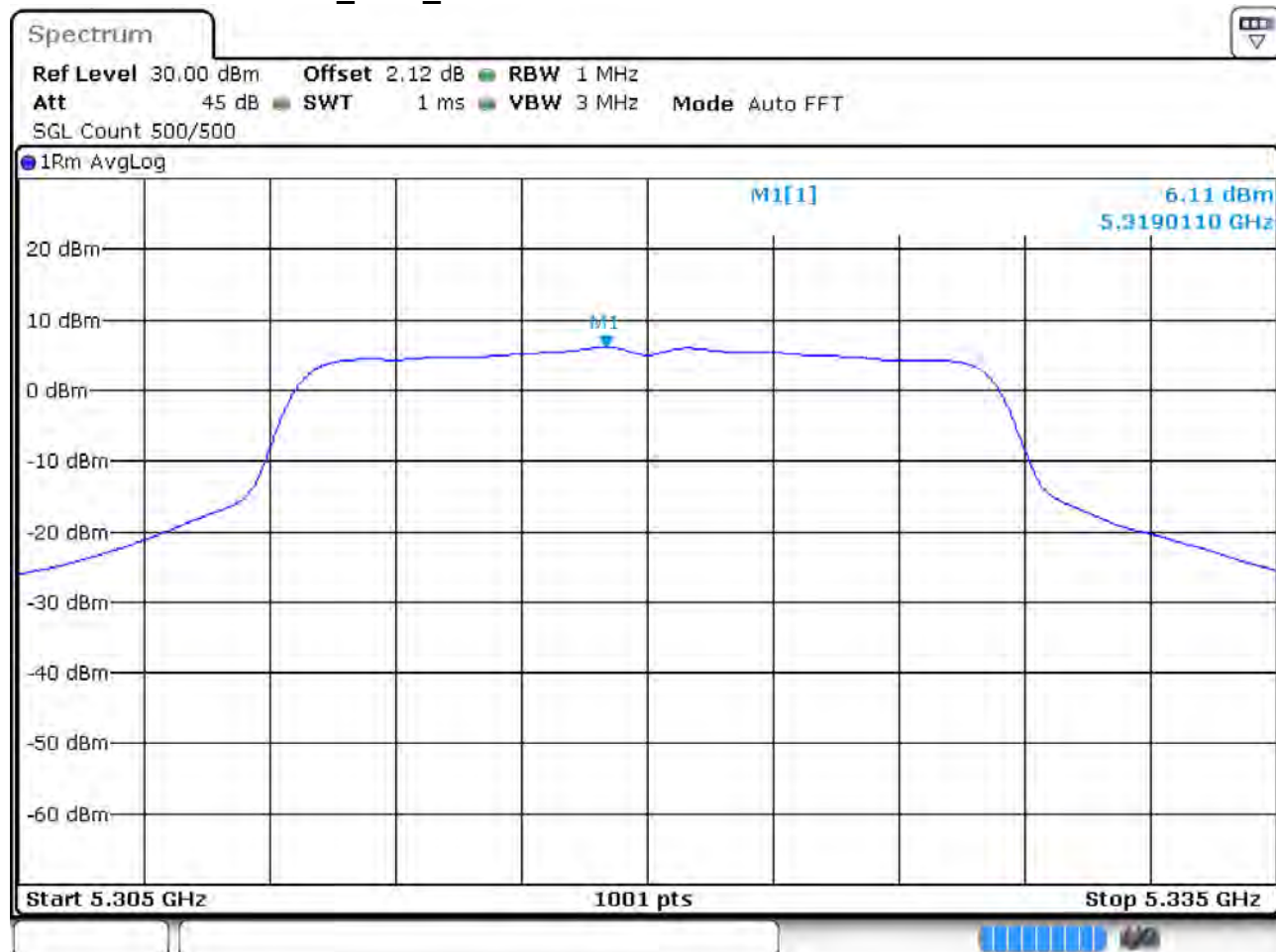
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4.8.2.31

11A20_CDD_64 ANT 1



Date: 4 JUN 2020 12:13:26

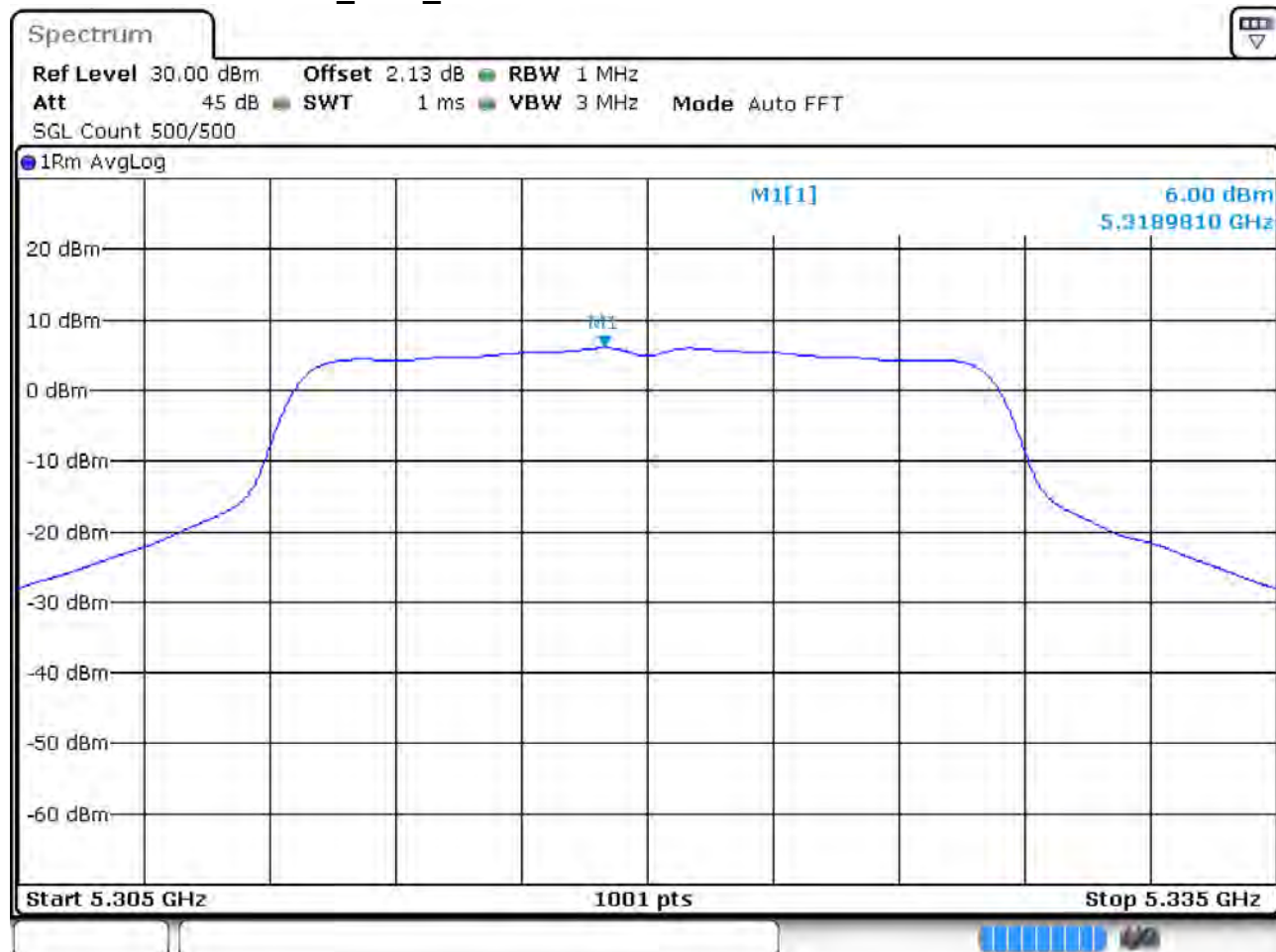


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4.8.2.32 11A20_CDD_64 ANT 2



Date: 4 JUN 2020 08:09:27



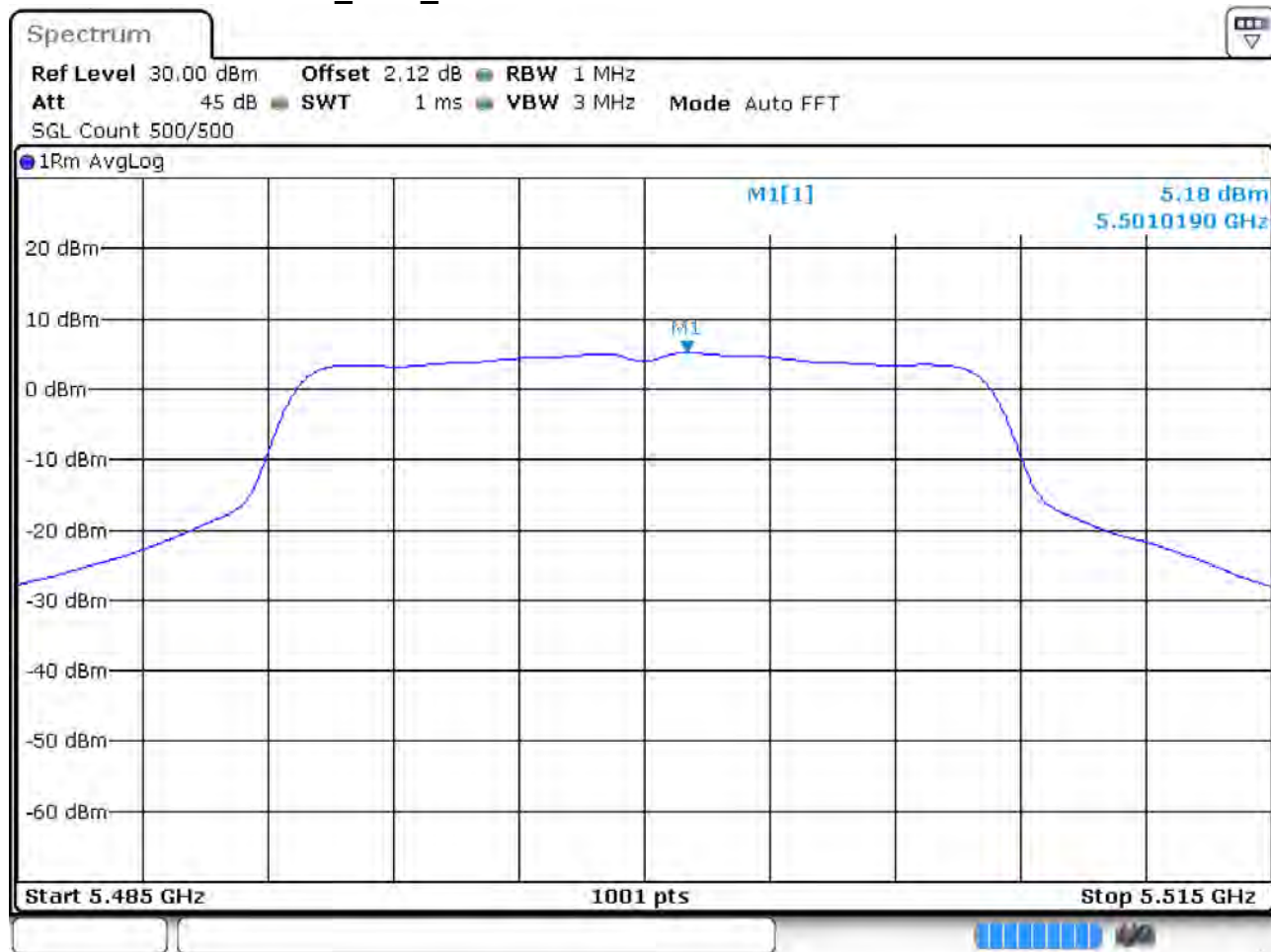
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4.8.2.33

11A20_CDD_100 ANT 1

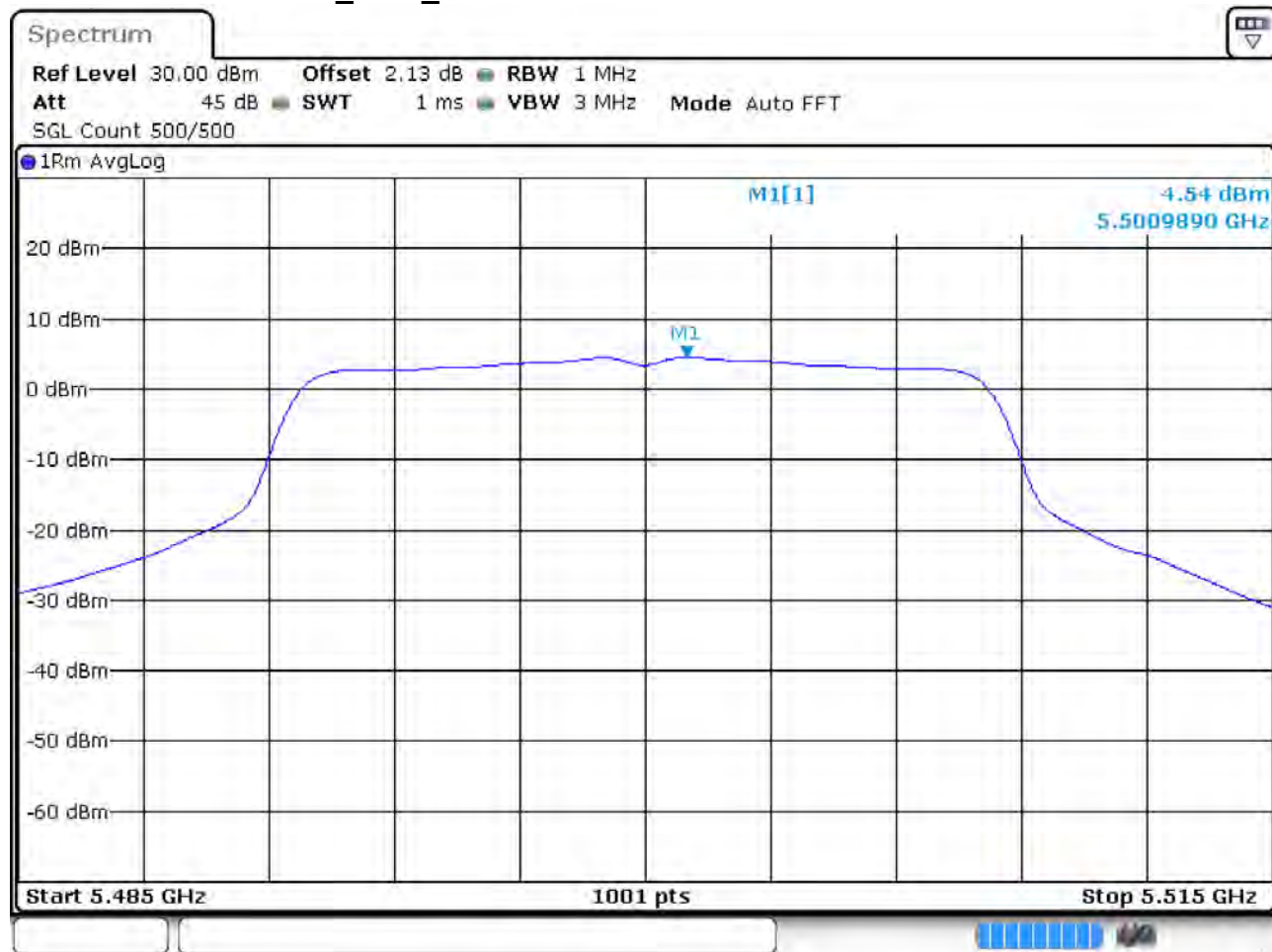


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4.8.2.34

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Date: 4 JUN 2020 08:11:27

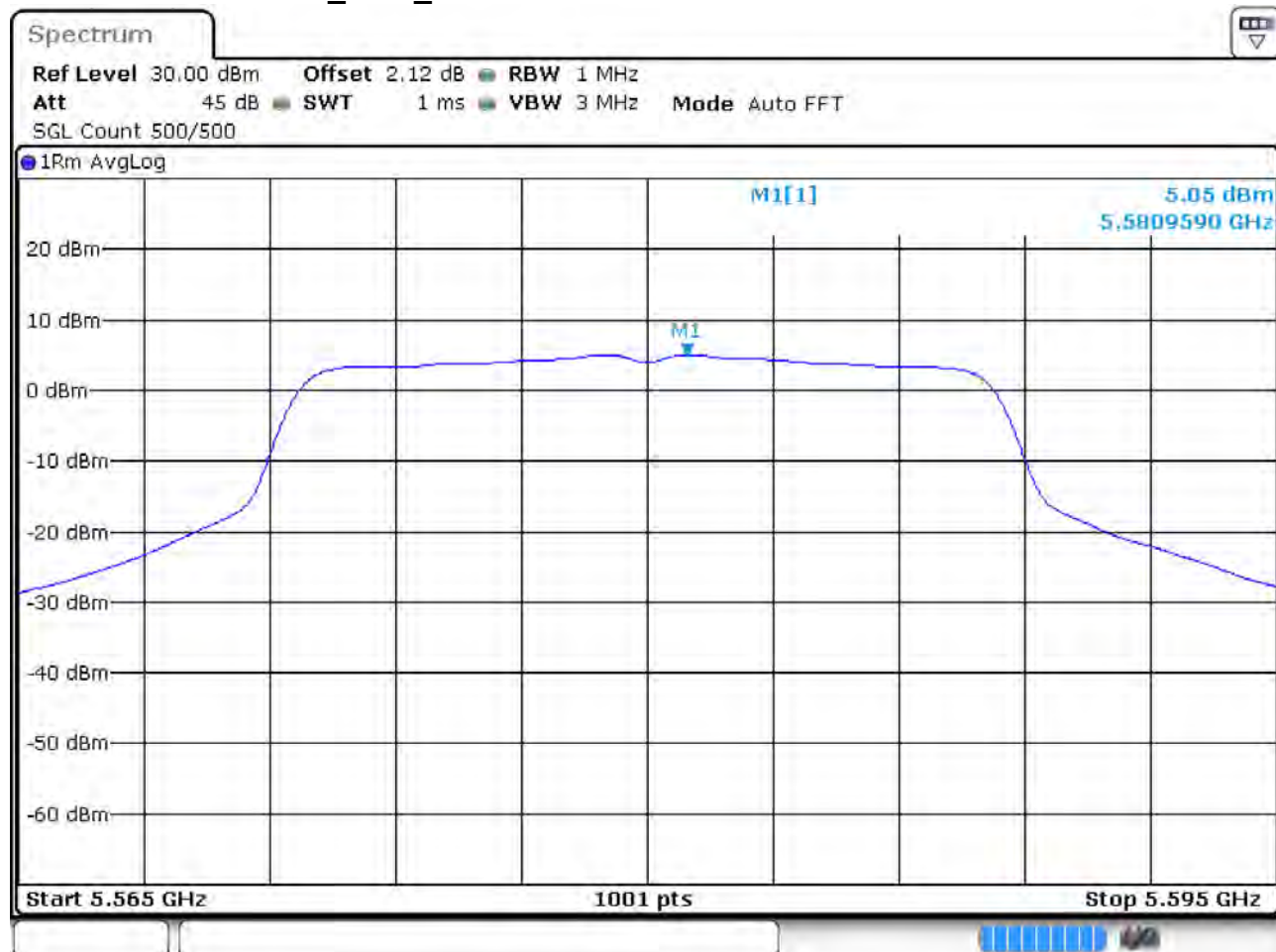


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4.8.2.35 11A20_CDD_116 ANT 1



Date: 4 JUN 2020 12:16:14



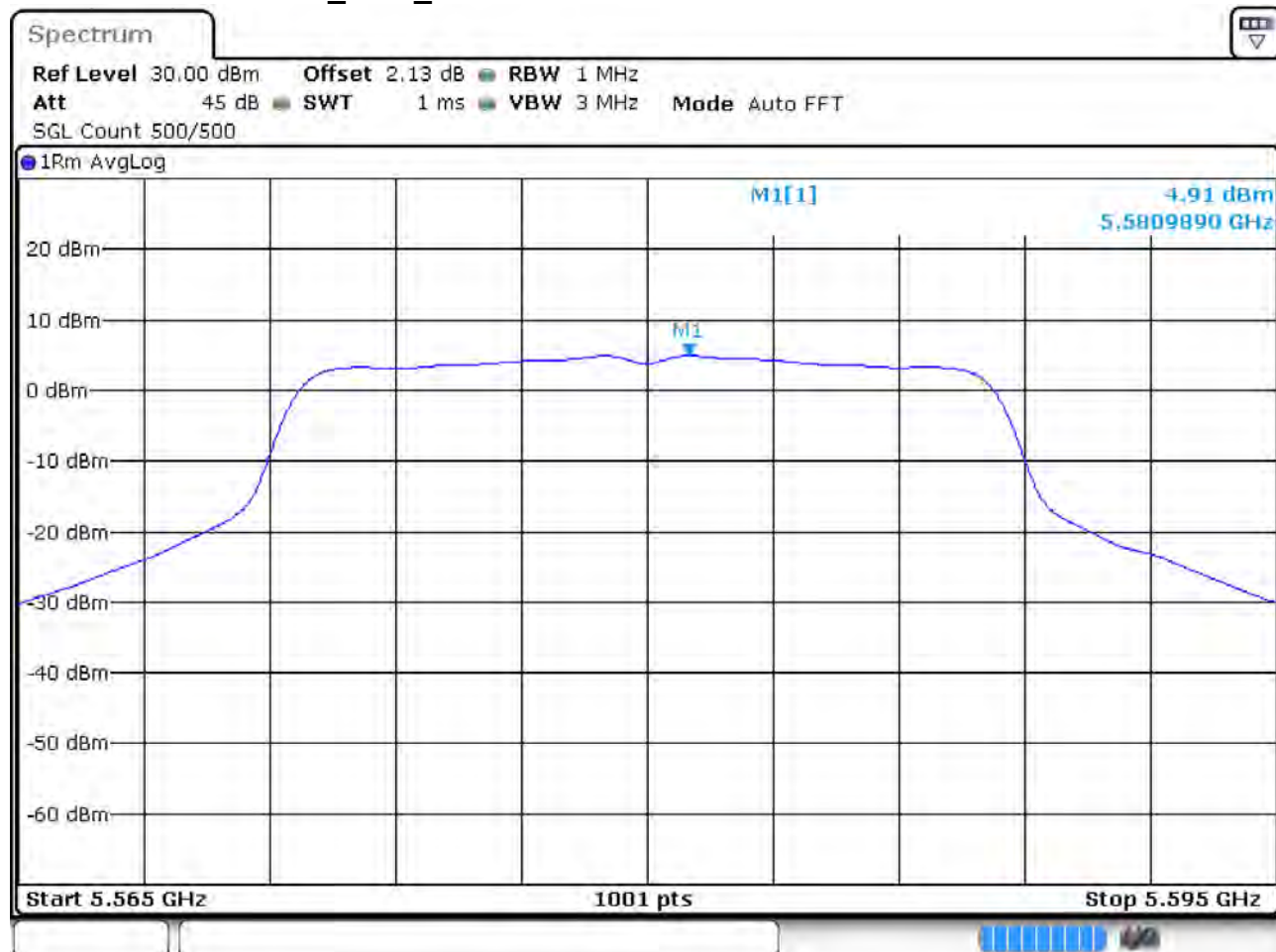
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Date: 4 JUN 2020 08:13:25



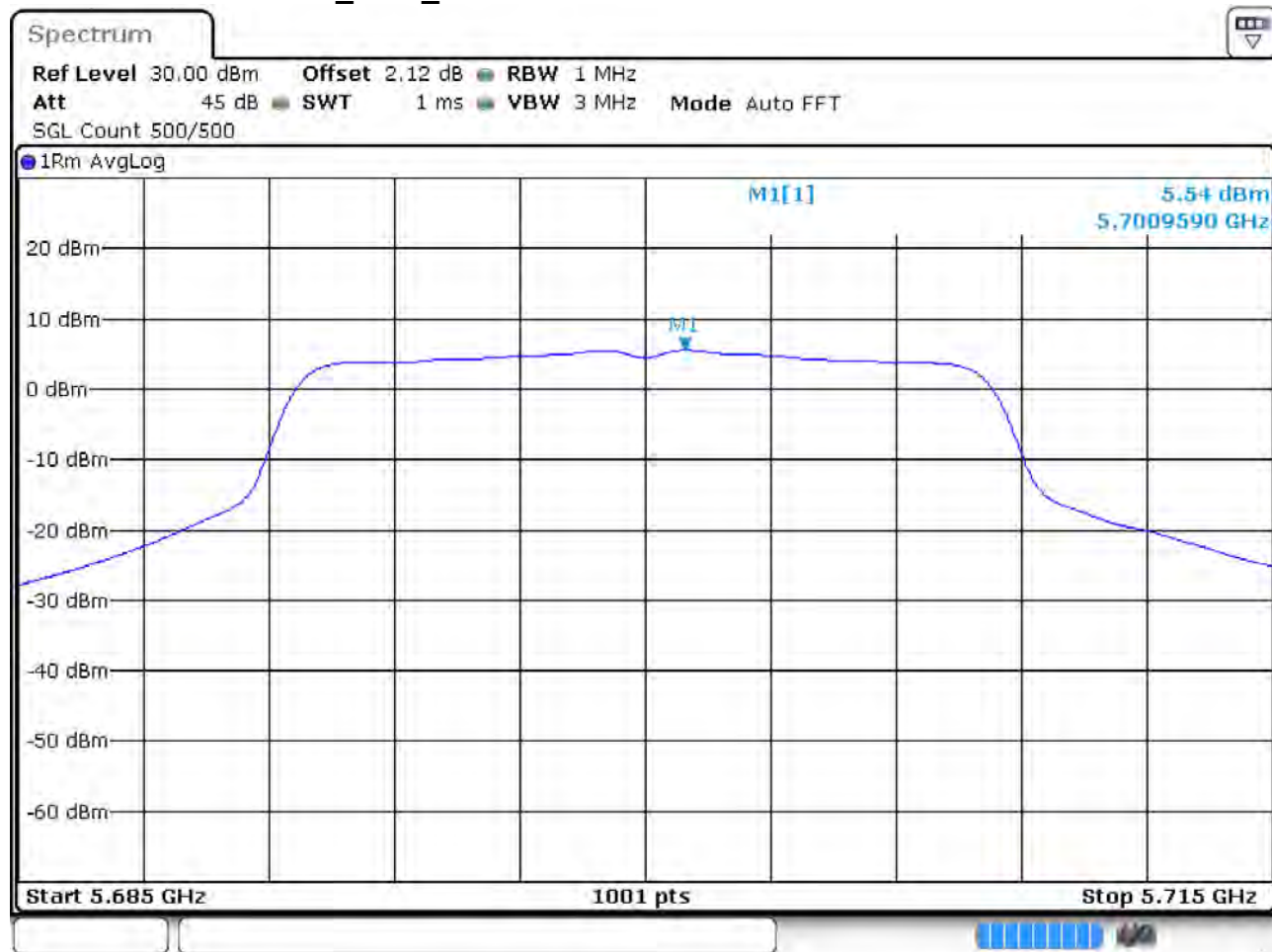
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4.8.2.37

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Date: 4 JUN 2020 12:17:35



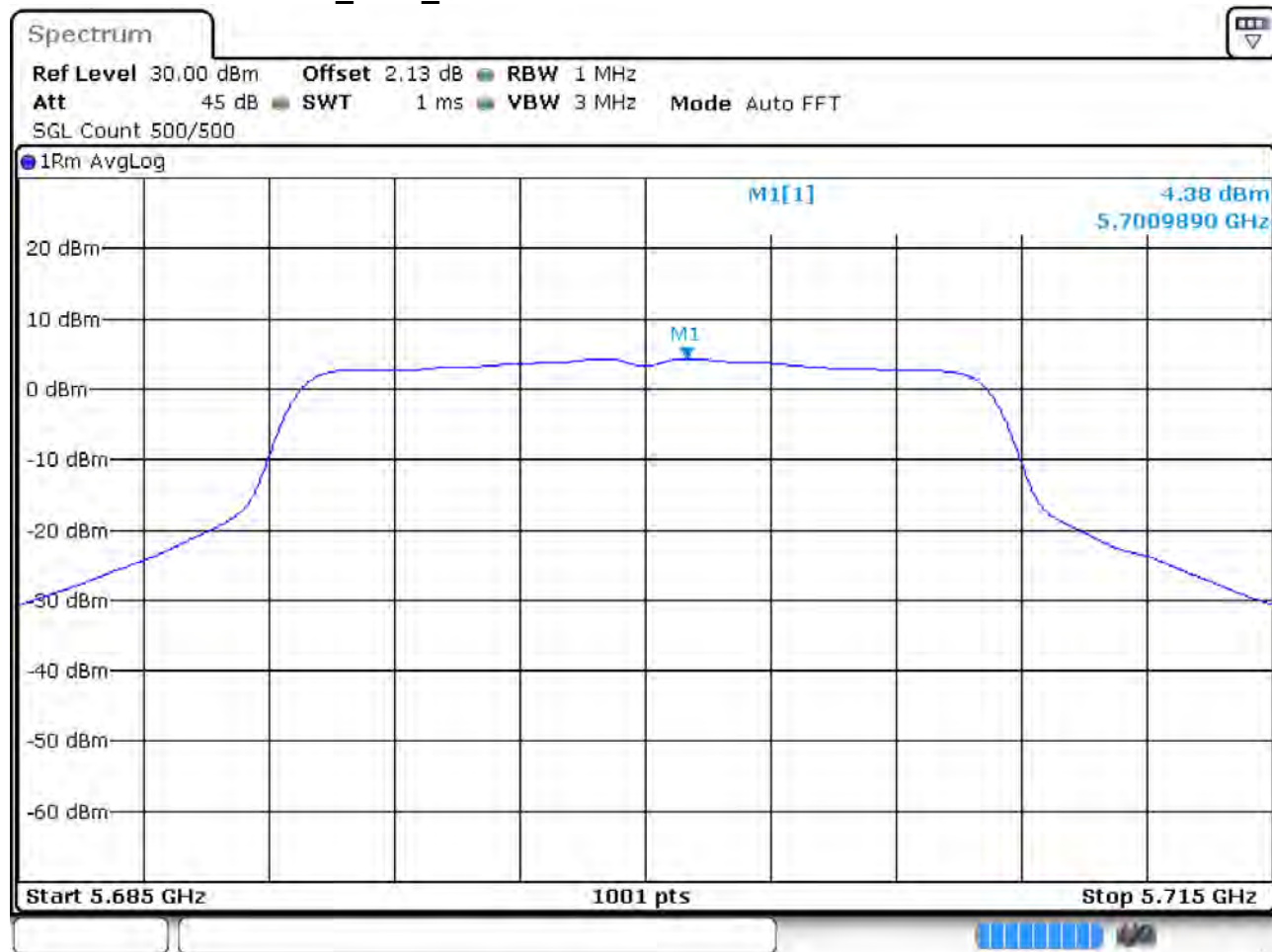
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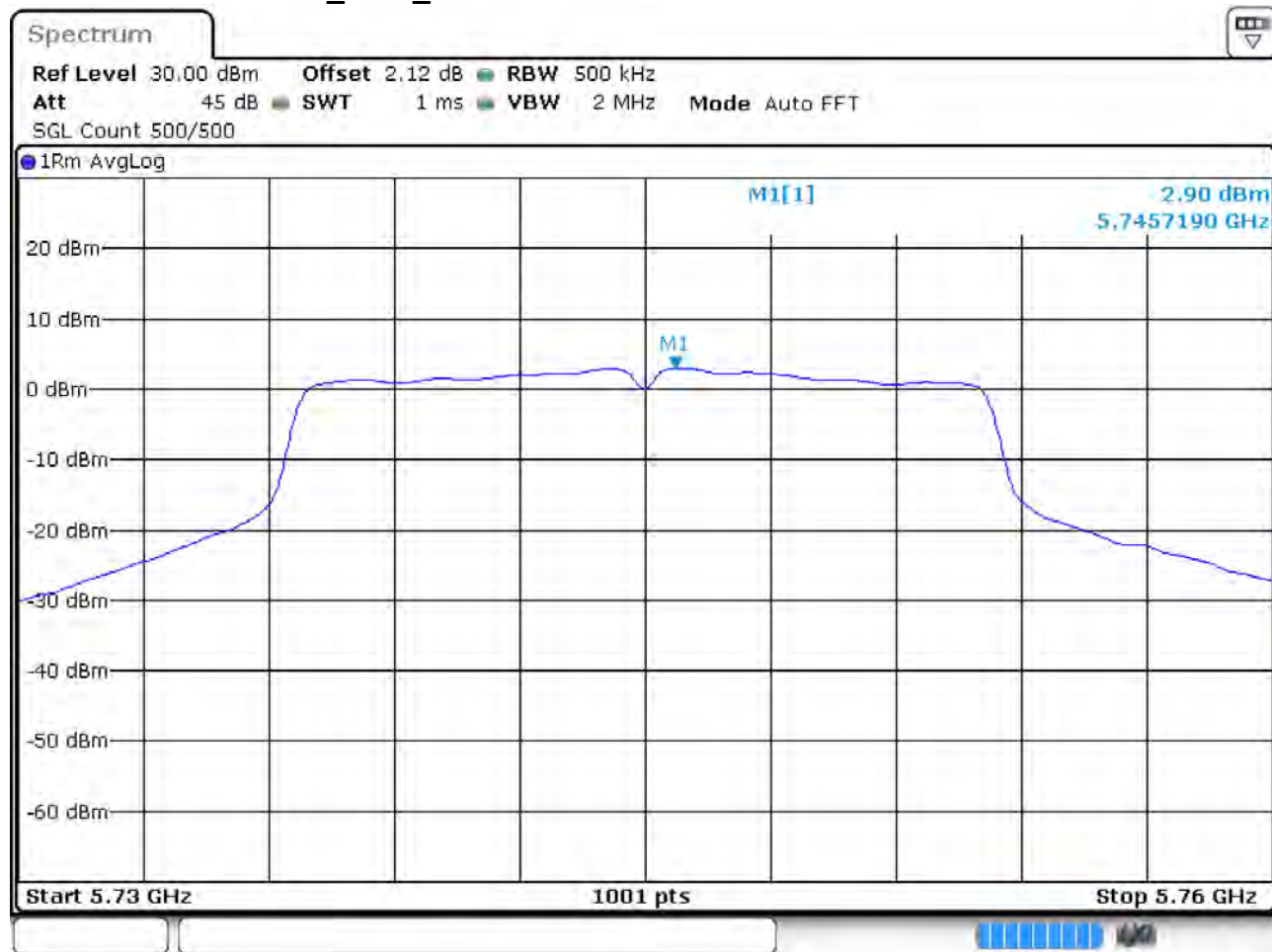
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4.8.2.39

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Date: 4 JUN 2020 12:19:06



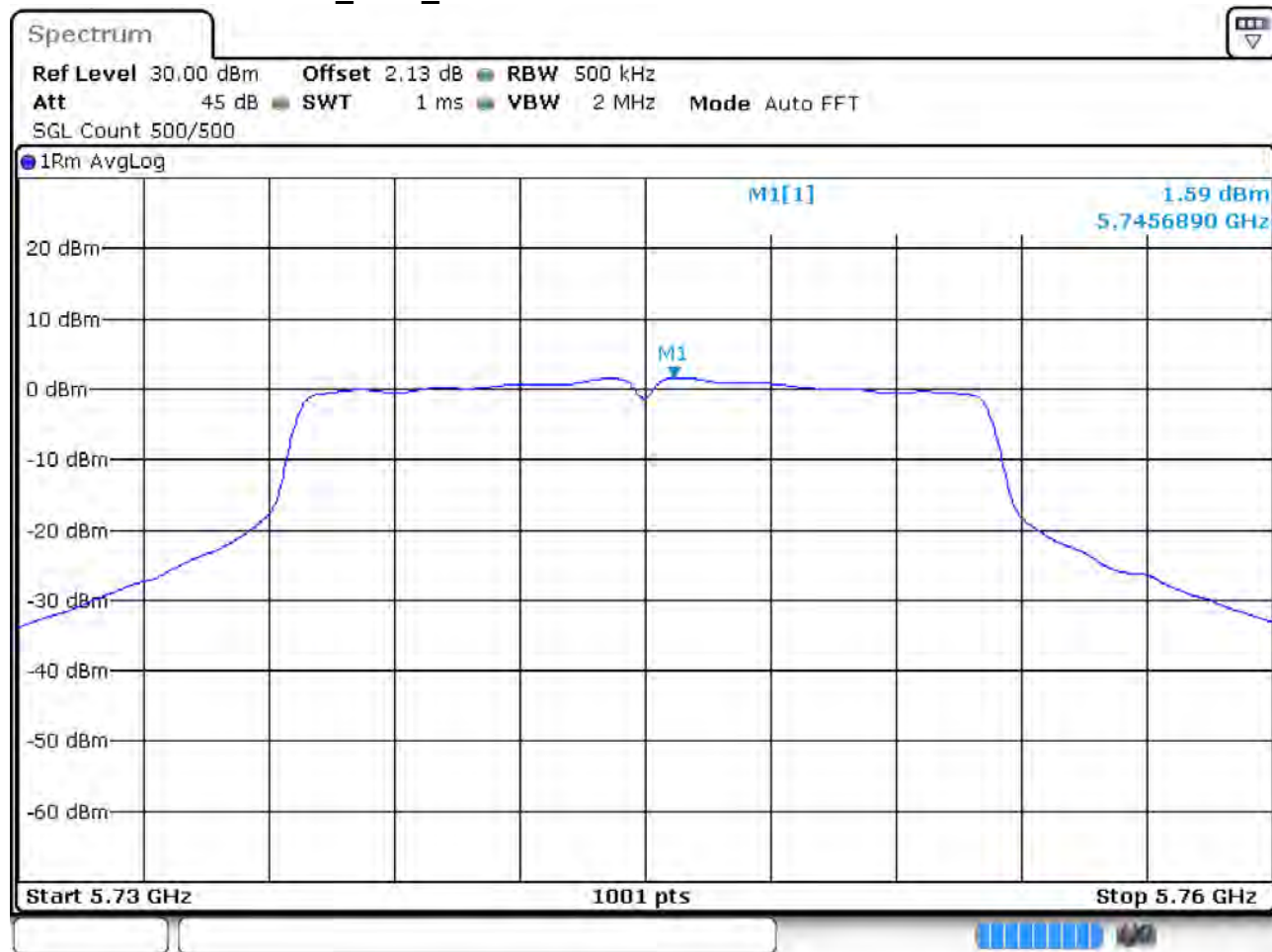
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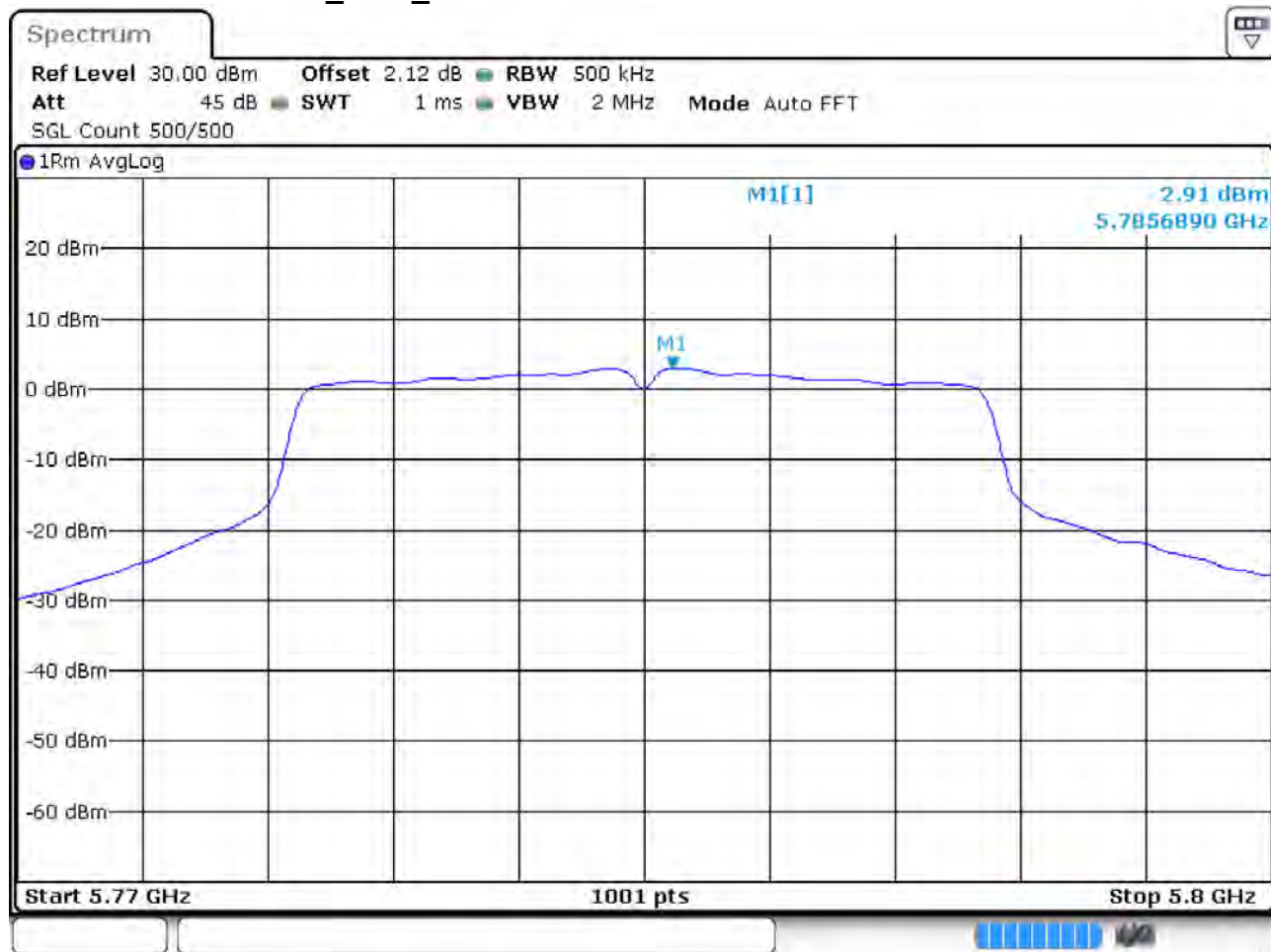


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4.8.2.41 11A20_CDD_157 ANT 1



Date: 4 JUN 2020 12:20:31

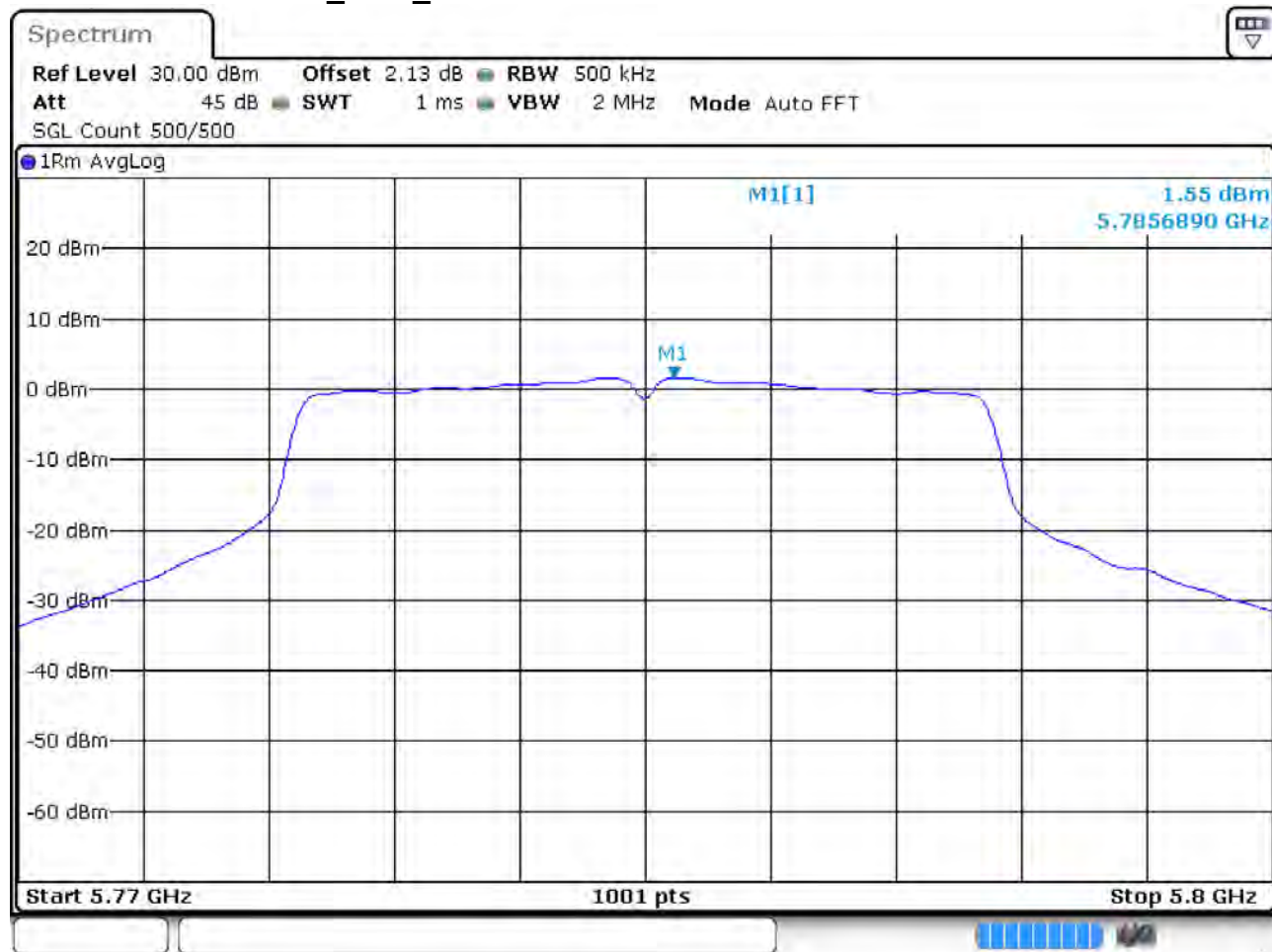


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4.8.2.42

11A20_CDD_157 ANT 2



Date: 4 JUN 2020 08:17:54



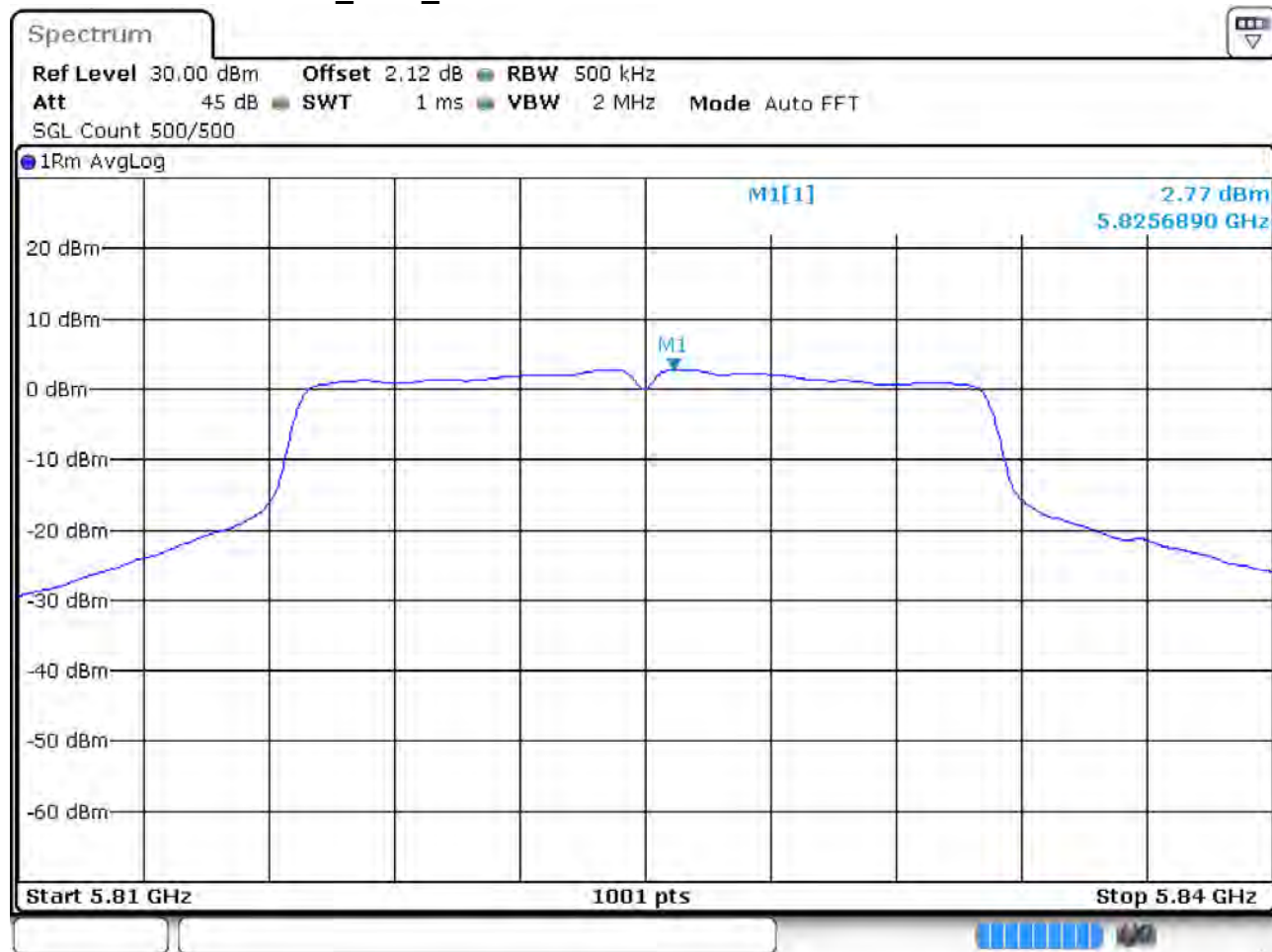
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4.8.2.43

11A20_CDD_165 ANT 1



Date: 4 JUN 2020 12:21:54



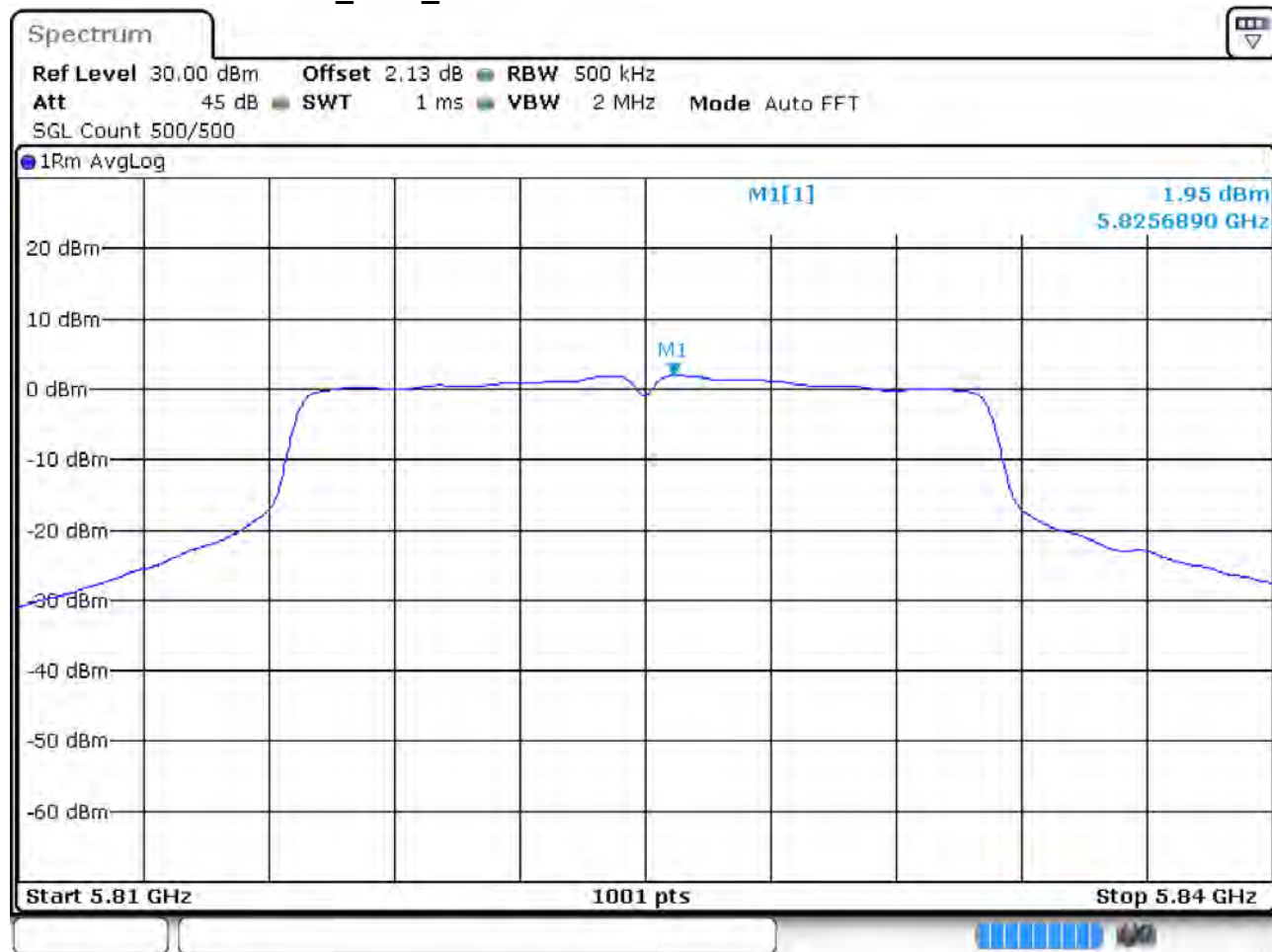
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4.8.2.44

11A20_CDD_165 ANT 2



Date: 4 JUN 2020 08:19:28



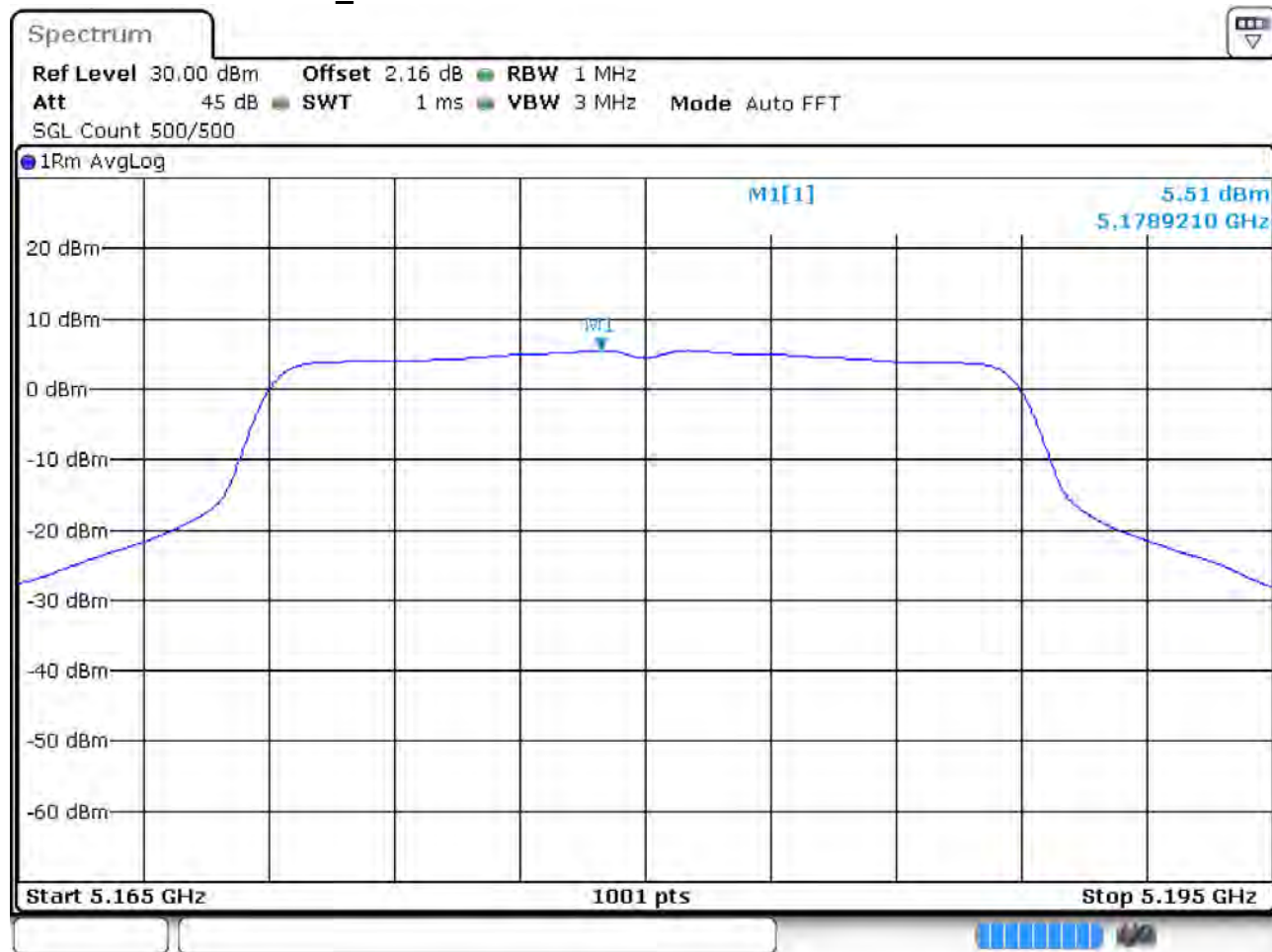
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4.8.2.45

11N20_36 ANT 1



Date: 5 JUN 2020 02:03:30



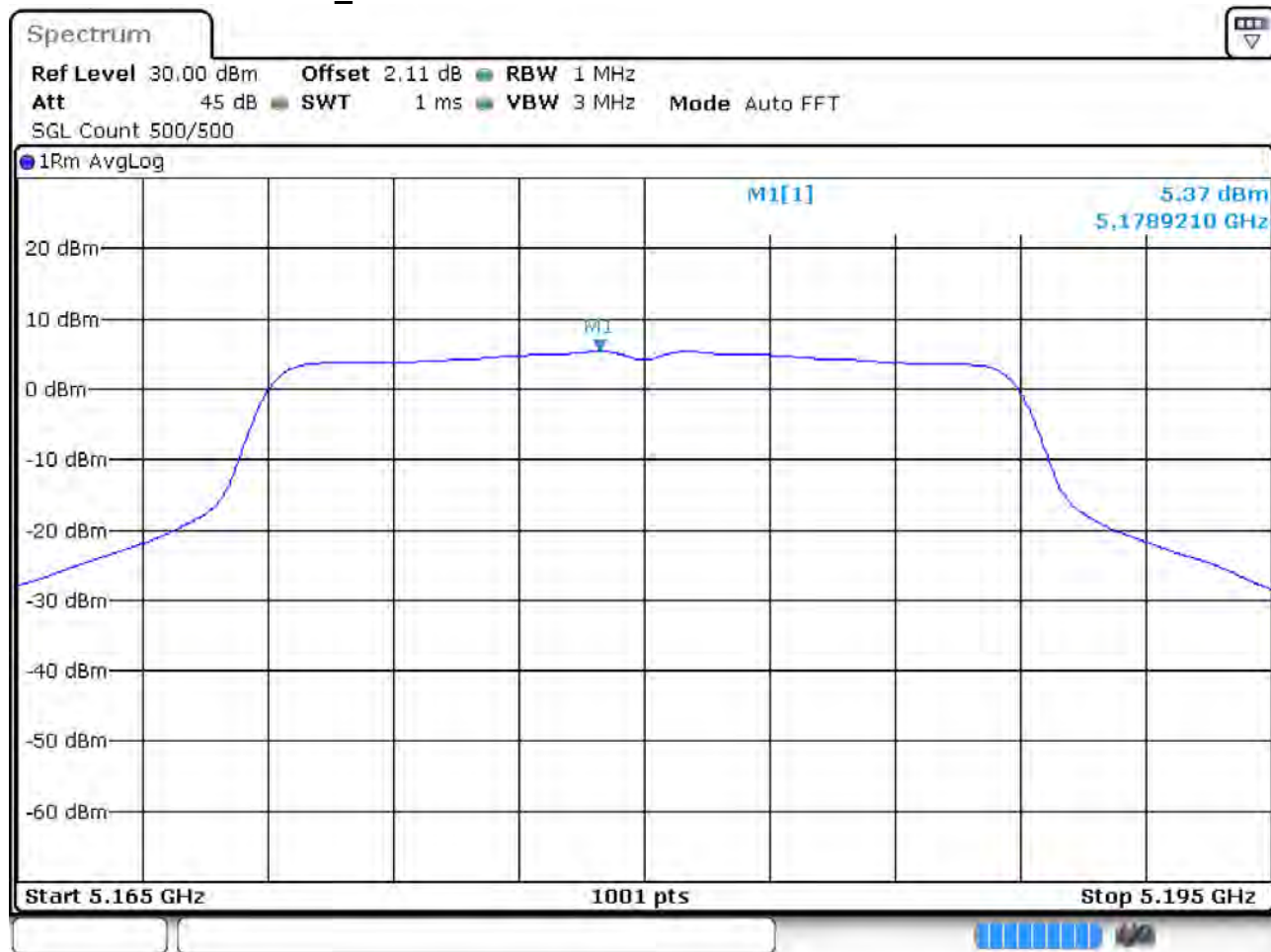
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4.8.2.46

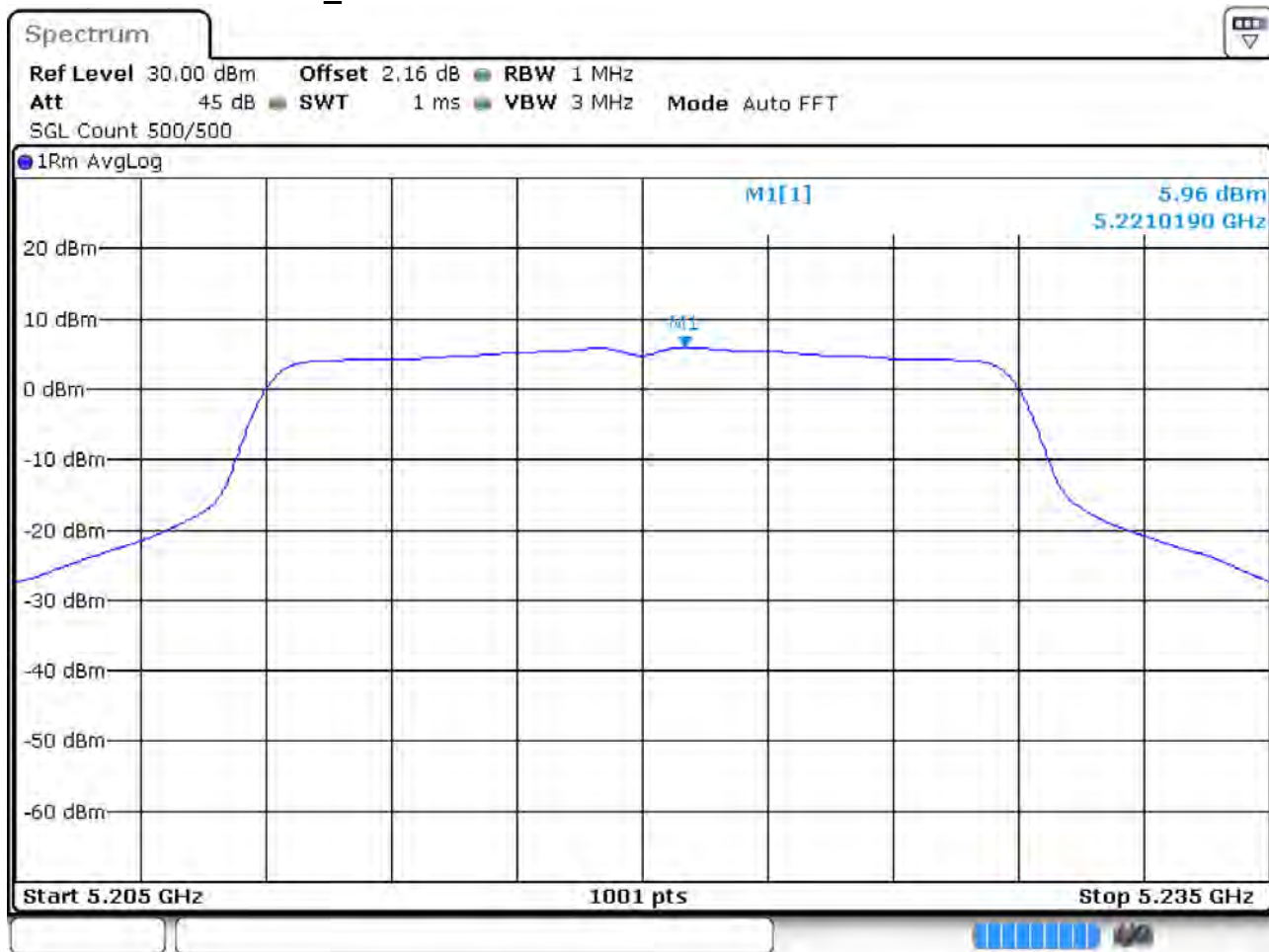
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Date: 4 JUN 2020 04:28:24



4.8.2.47 11N20_44 ANT 1



Date: 5 JUN 2020 02:05:46



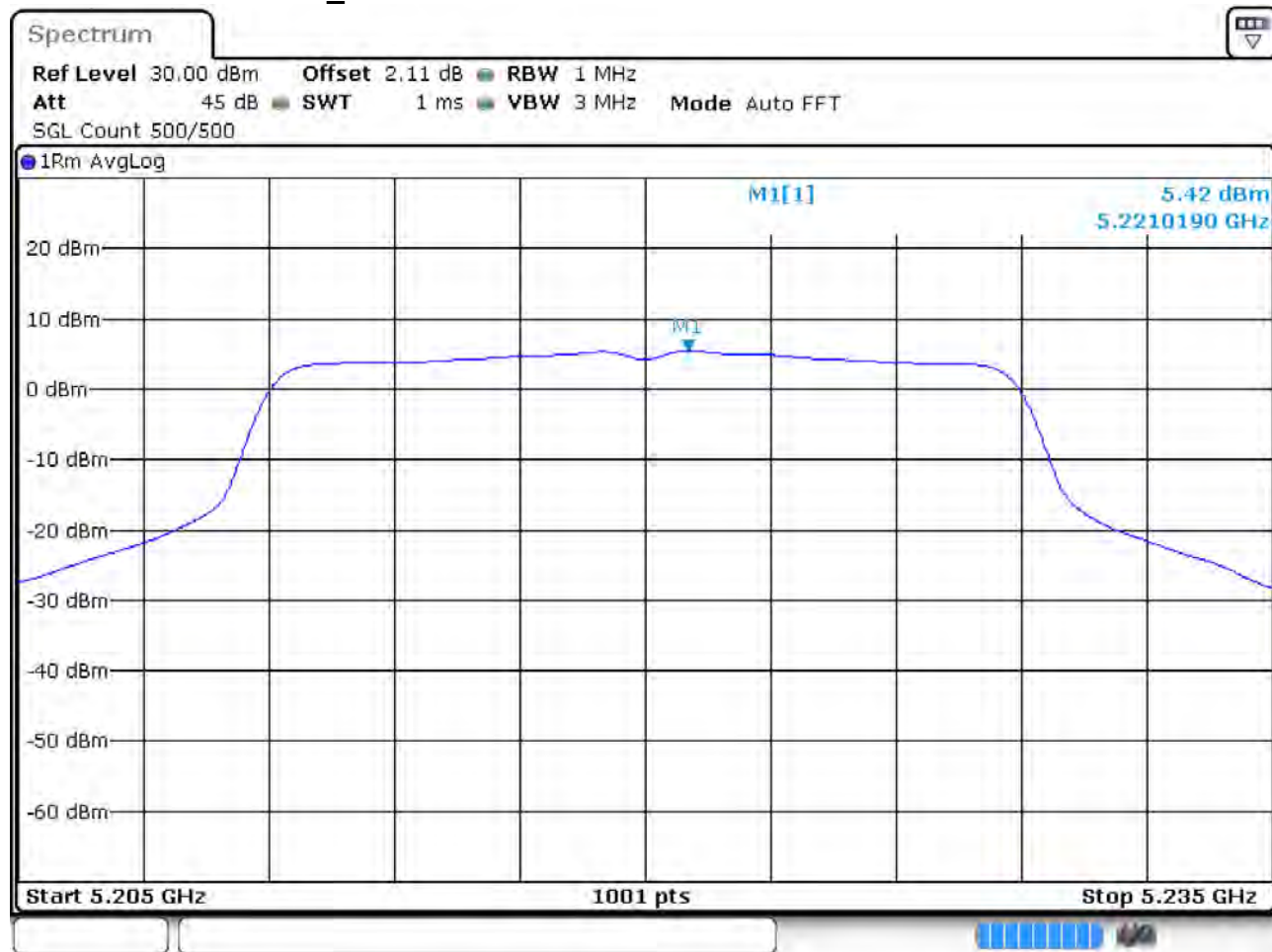
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4.8.2.48

11N20_44 ANT 2



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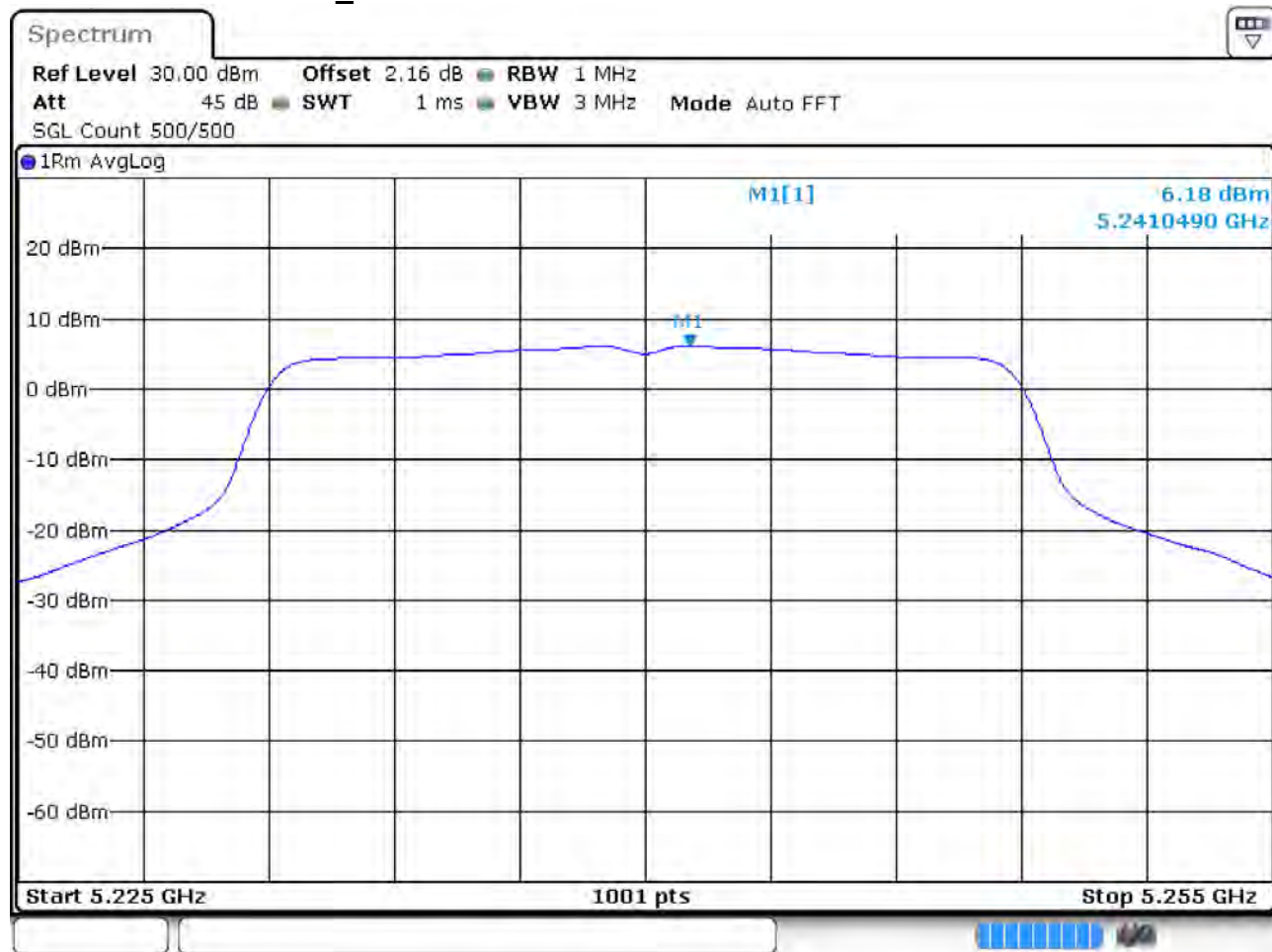
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4.8.2.49

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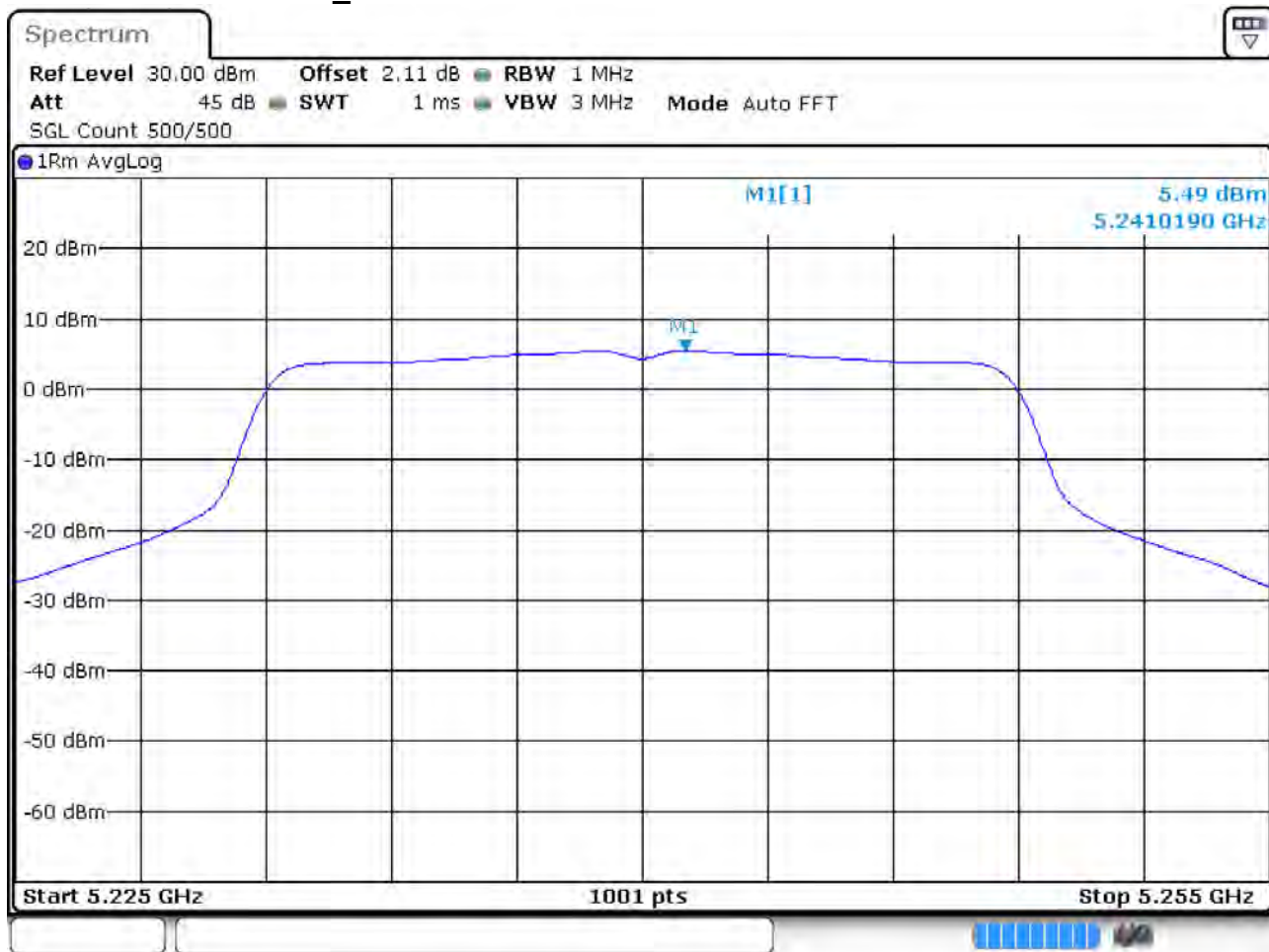
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4.8.2.50

11N20_48 ANT 2



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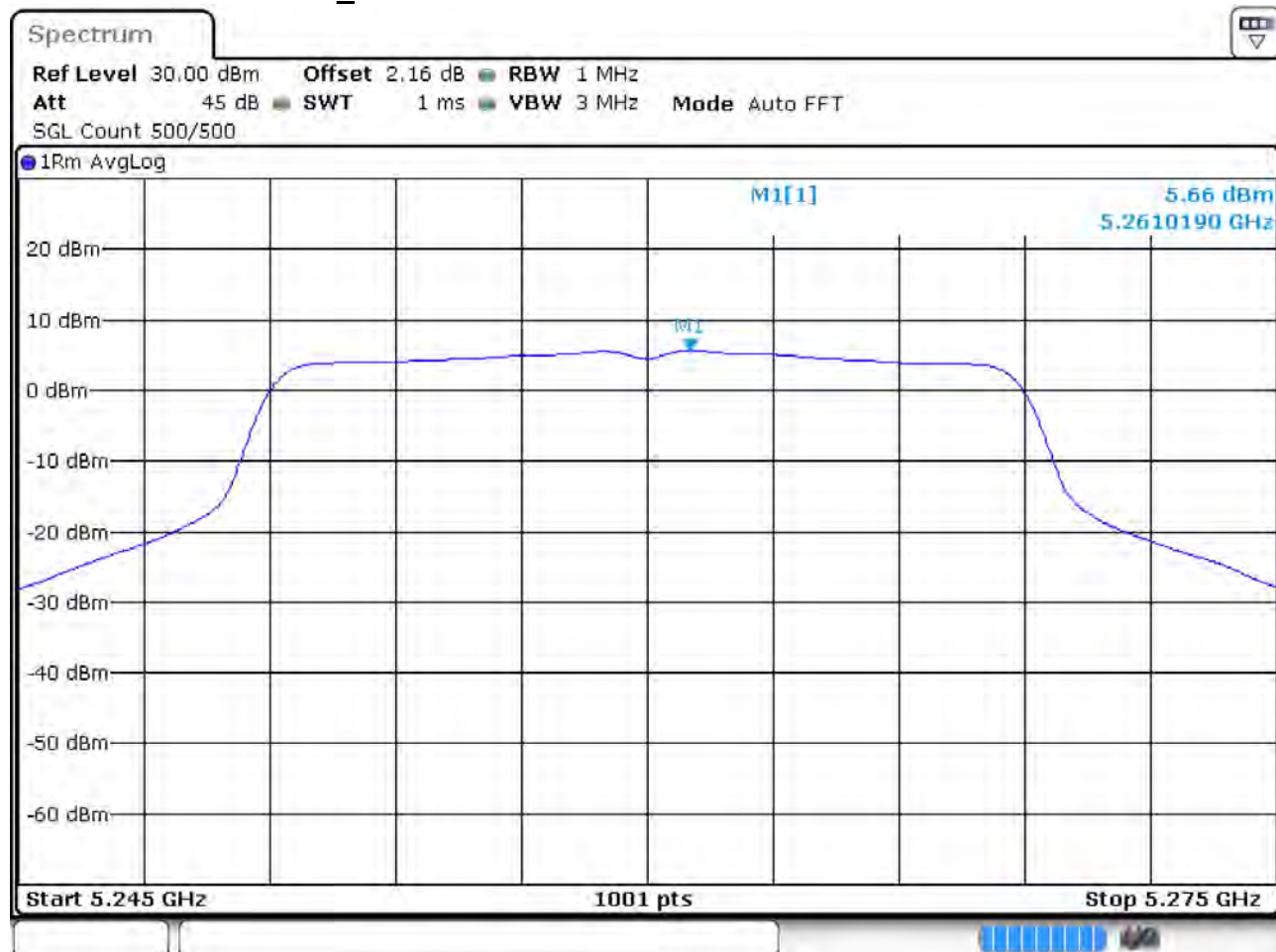
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4.8.2.51

11N20_52 ANT 1



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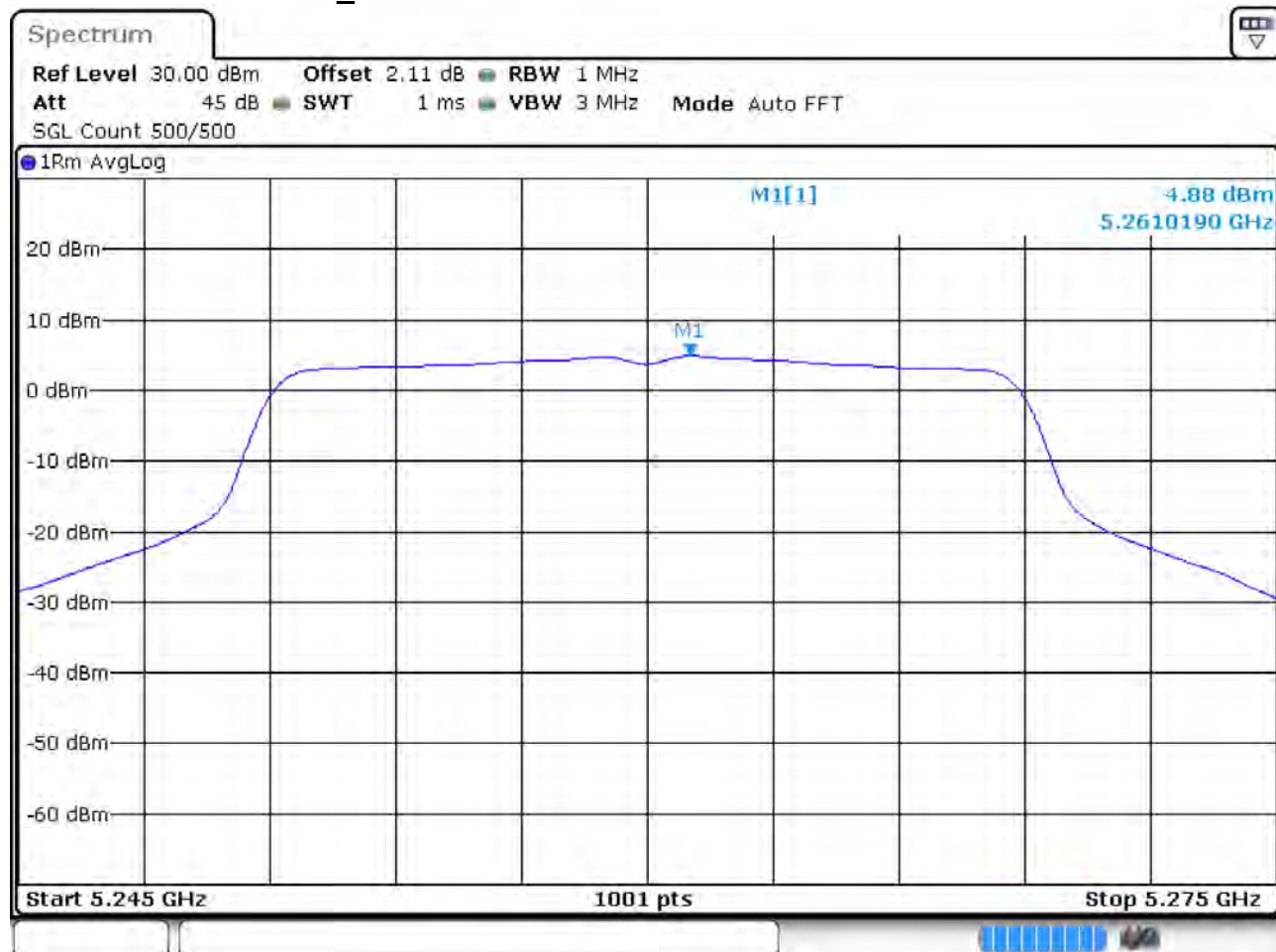
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4.8.2.52

11N20_52 ANT 2



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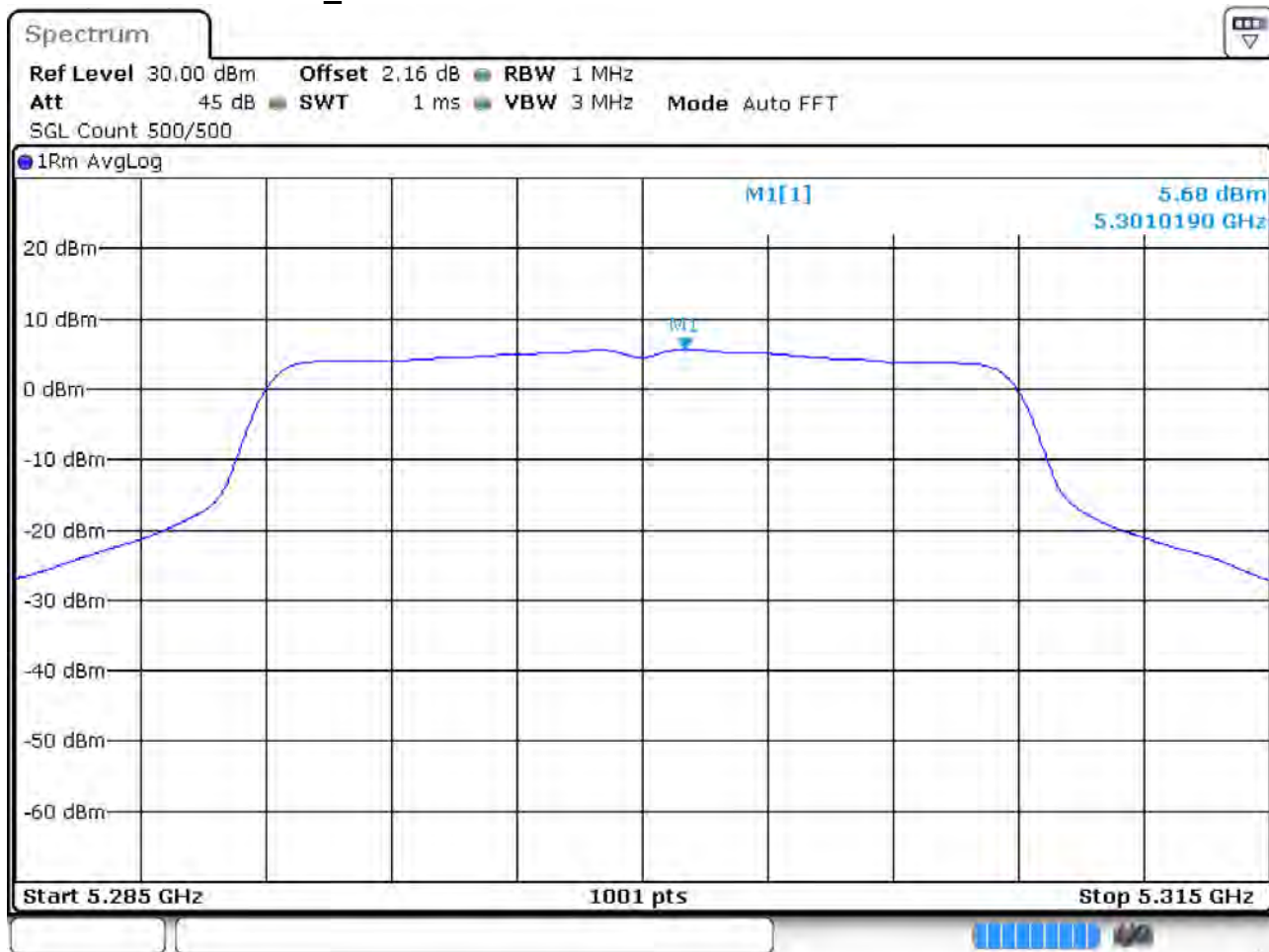
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4.8.2.53

11N20_60 ANT 1



Date: 5 JUN 2020 02:17:25



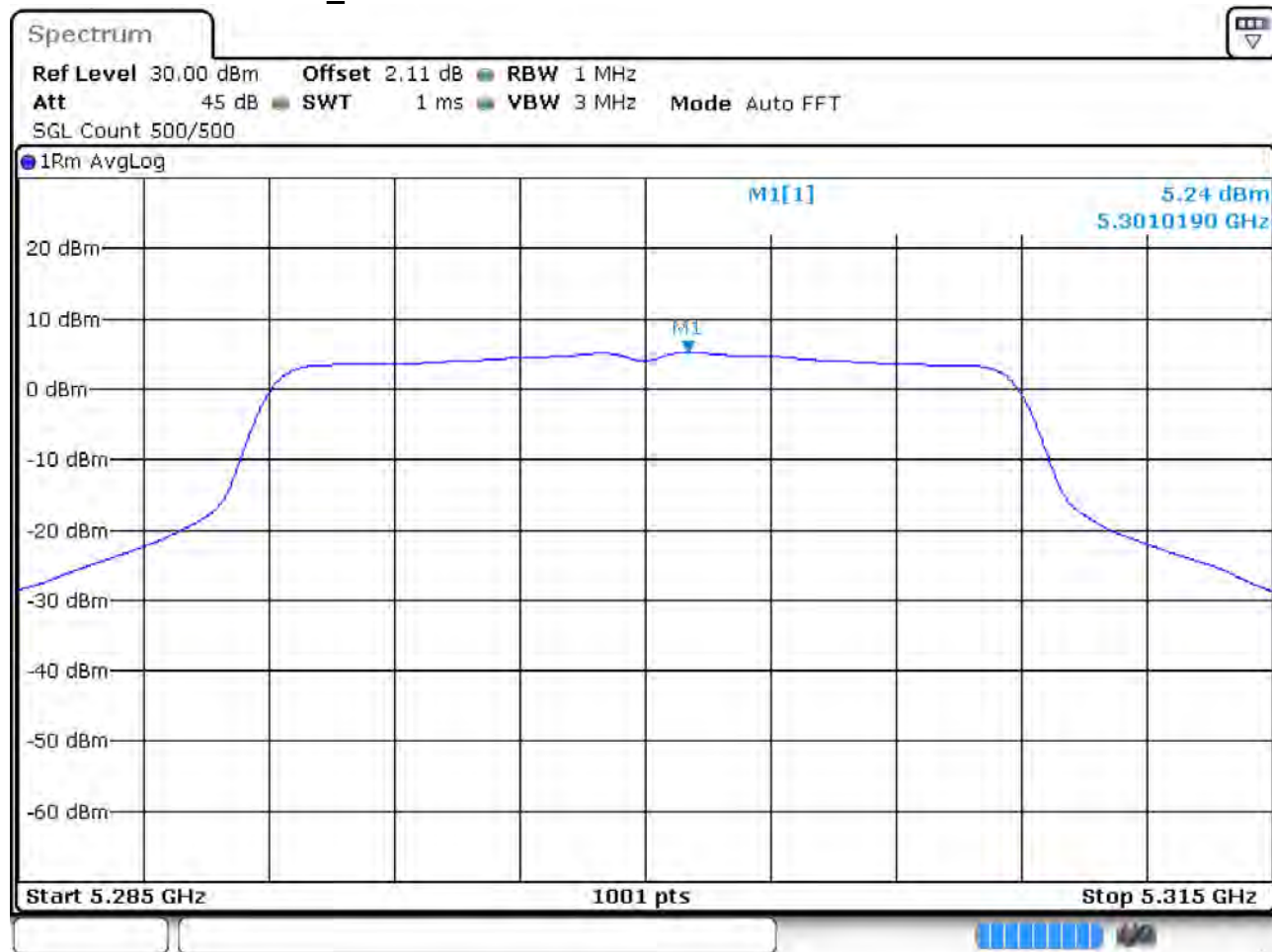
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4.8.2.54

11N20_60 ANT 2



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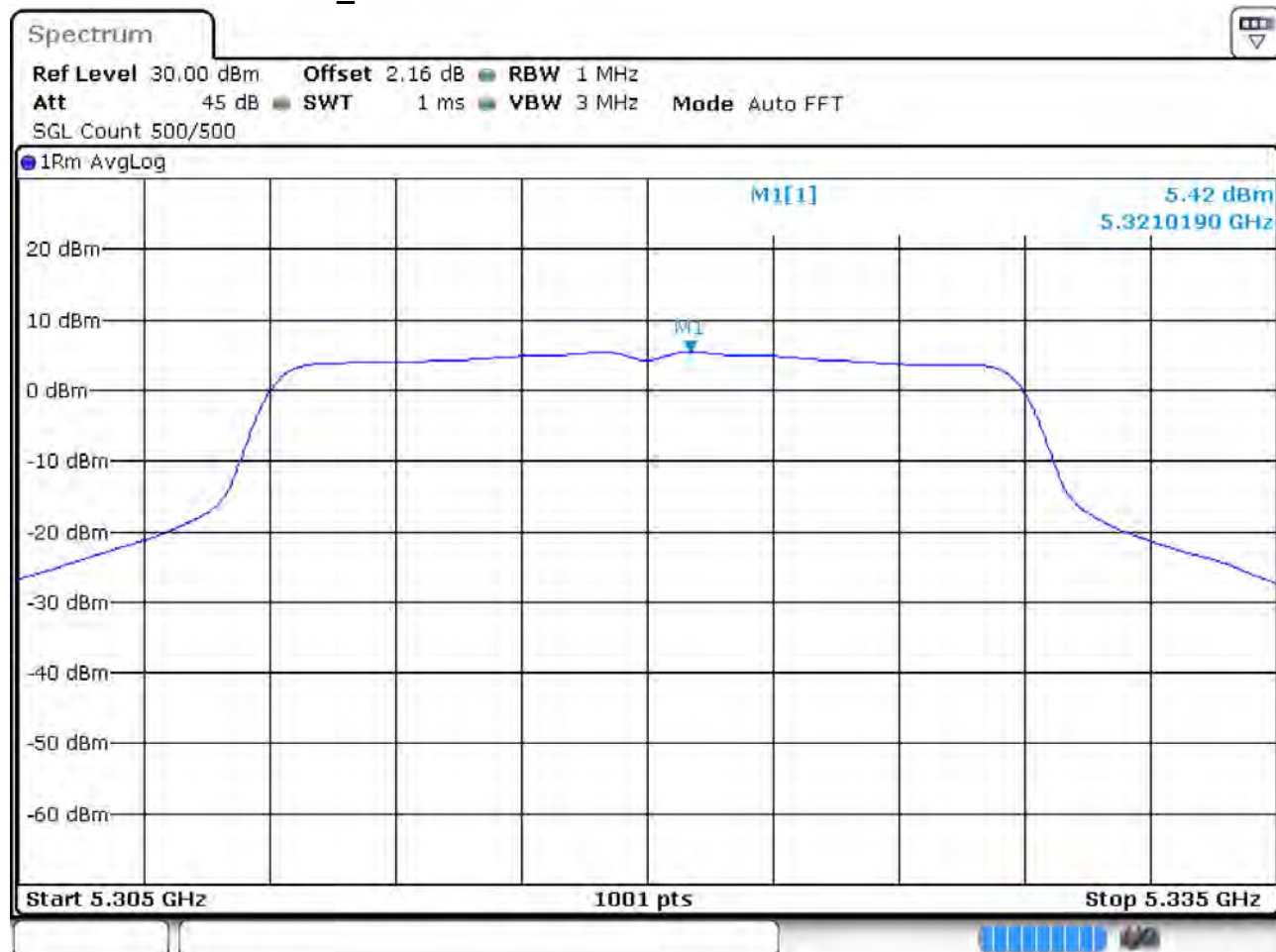
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4.8.2.55

11N20_64 ANT 1



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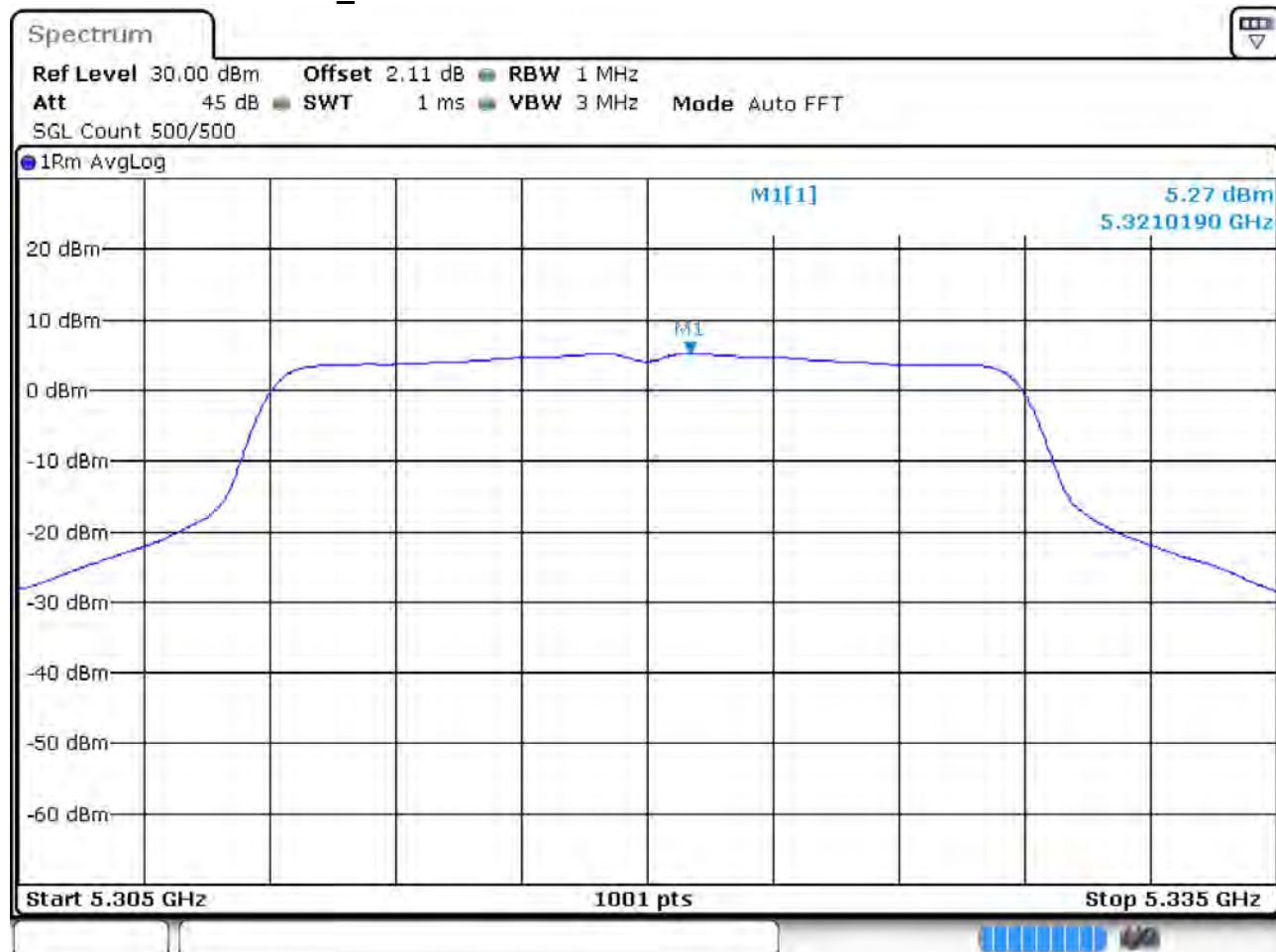
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4.8.2.56

11N20_64 ANT 2



Date: 4 JUN 2020 04:43:56



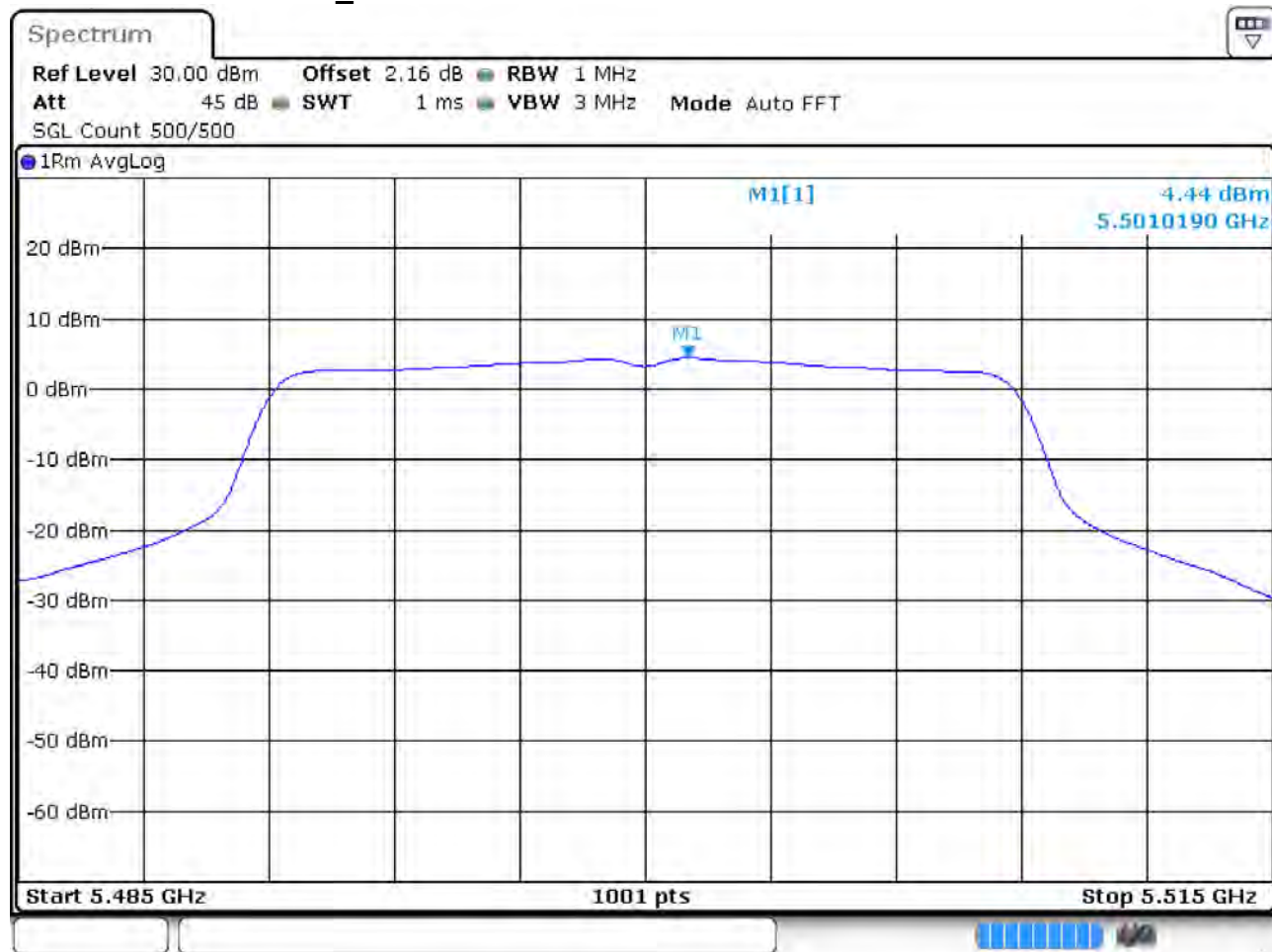
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4.8.2.57

11N20_100 ANT 1

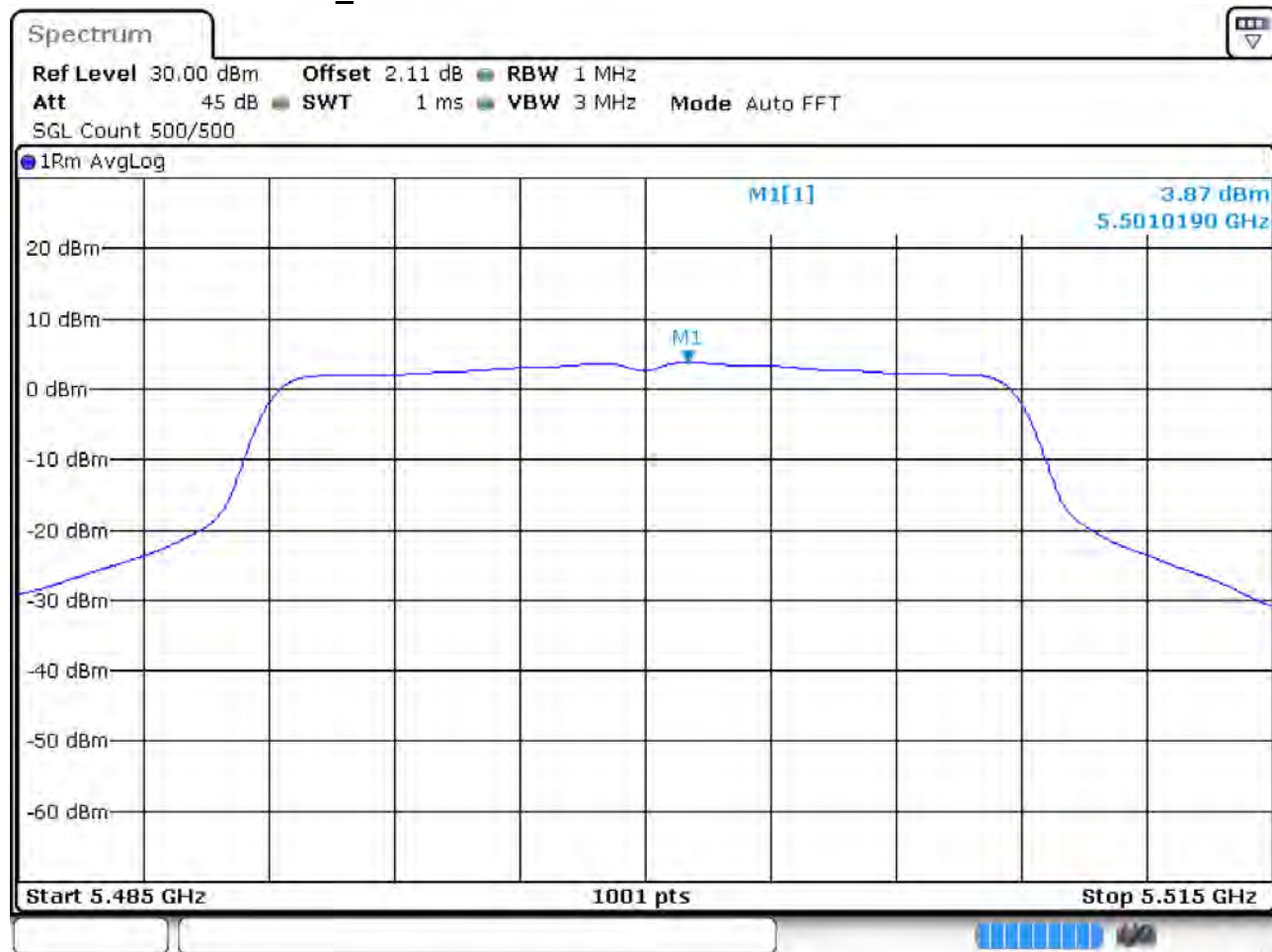


Date: 5 JUN 2020 02:20:21



4.8.2.58

11N20_100 ANT 2



Date: 4 JUN 2020 06:32:26



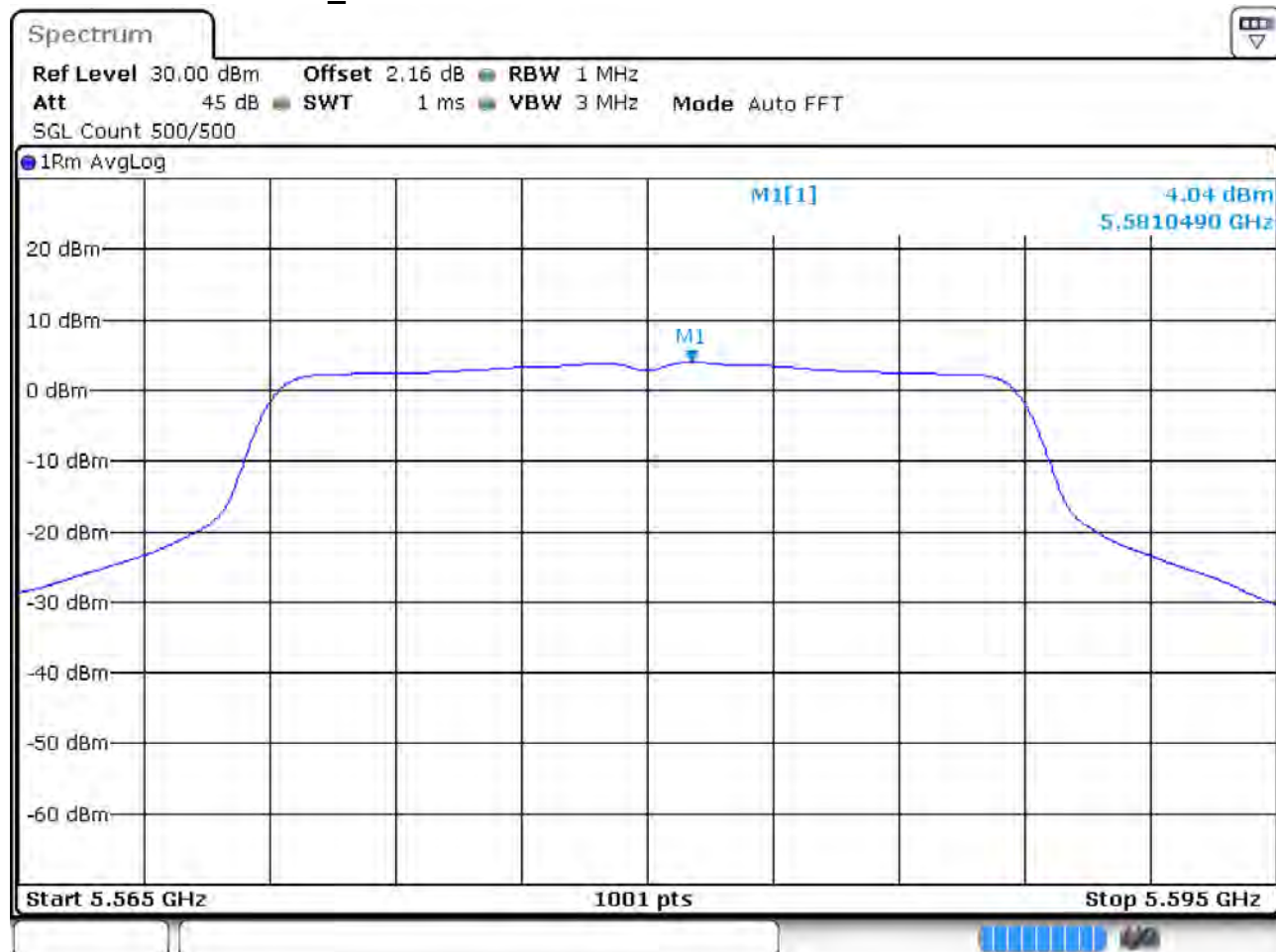
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4.8.2.59

11N20_116 ANT 1



Date: 5 JUN 2020 02:22:02



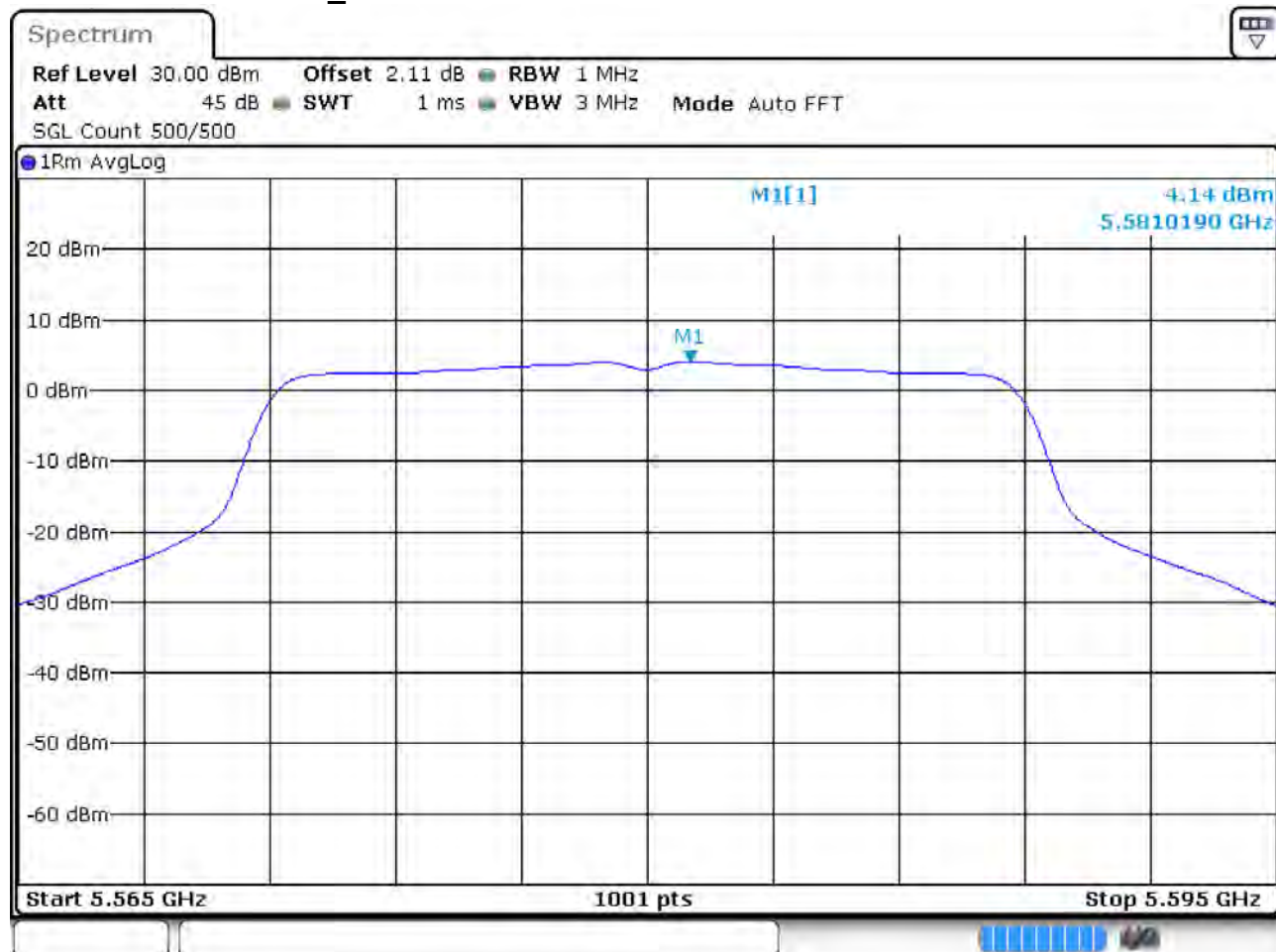
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4.8.2.60

11N20_116 ANT 2



Date: 4 JUN 2020 06:34:15



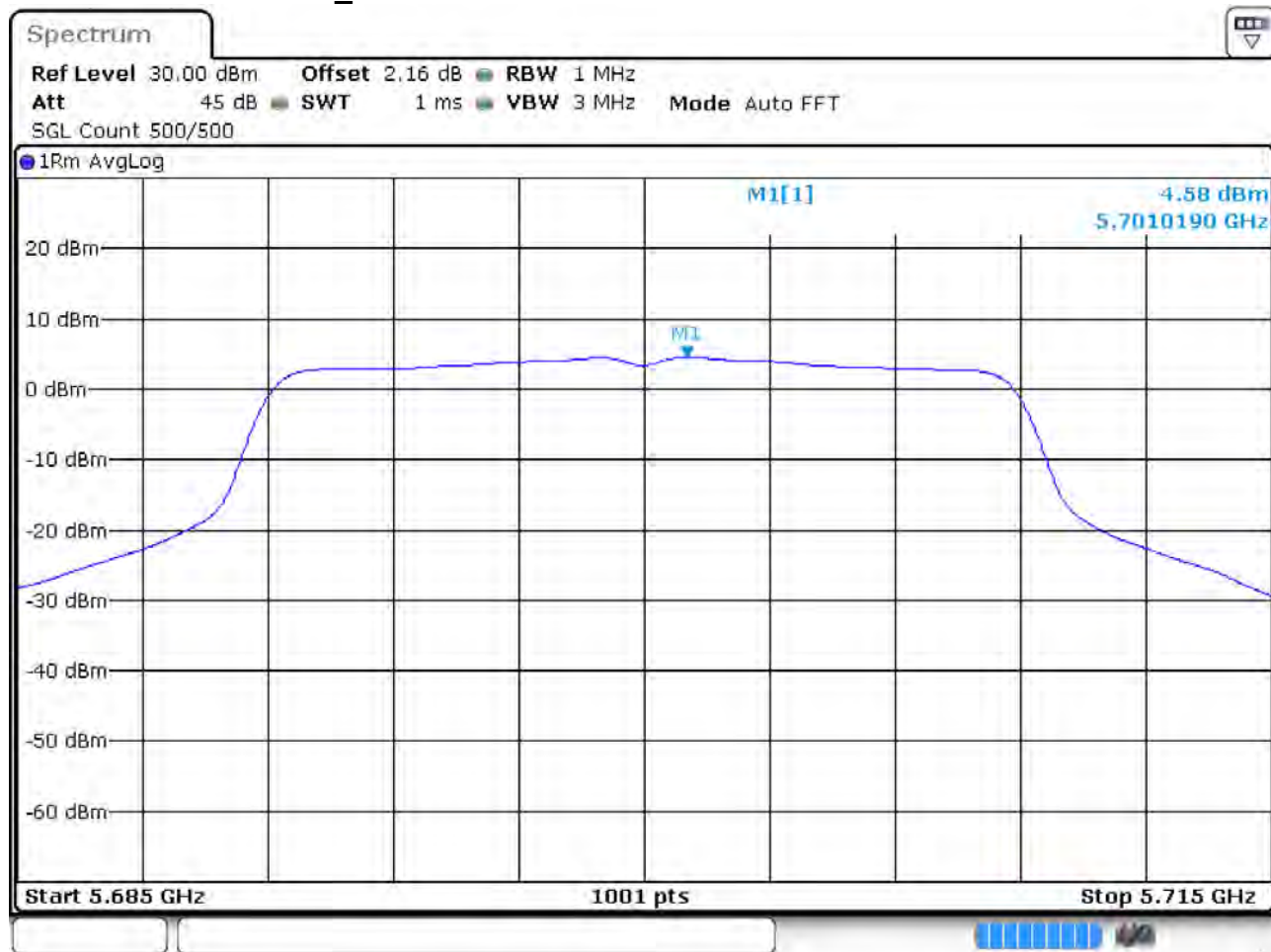
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4.8.2.61

11N20_140 ANT 1



Date: 5 JUN 2020 02:23:23



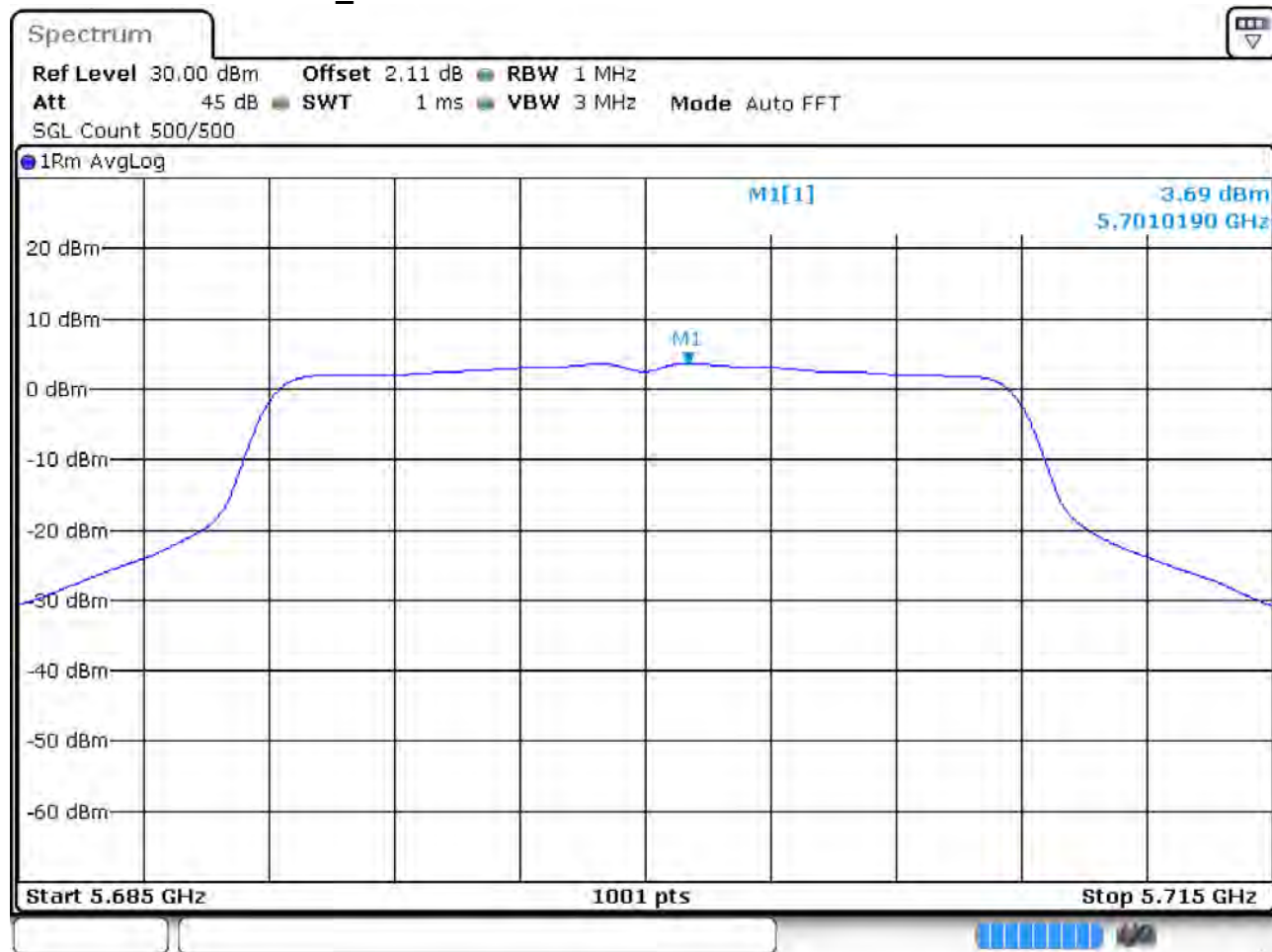
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4.8.2.62

11N20_140 ANT 2

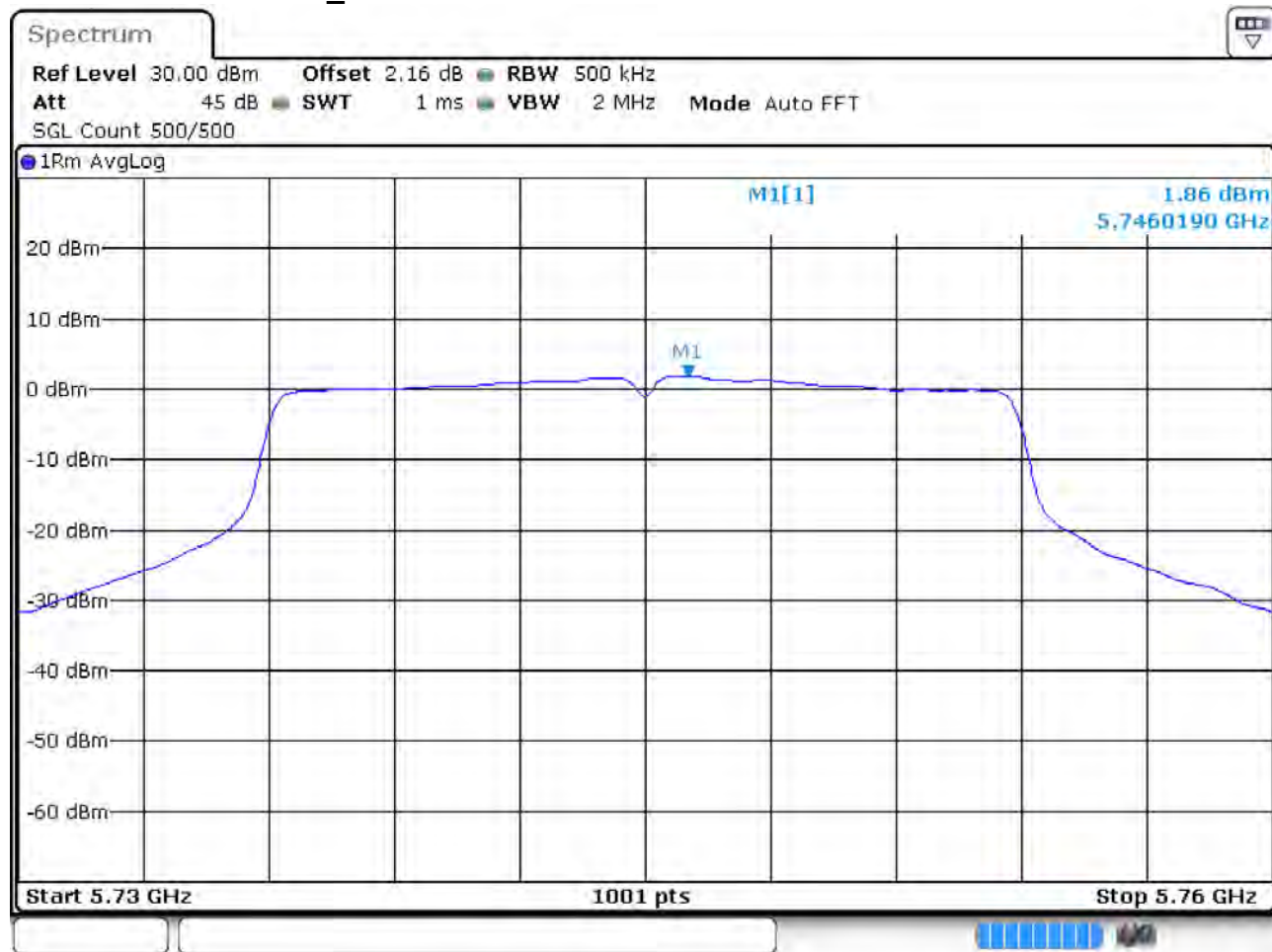


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4.8.2.63

11N20_149 ANT 1



Date: 5 JUN 2020 02:24:58



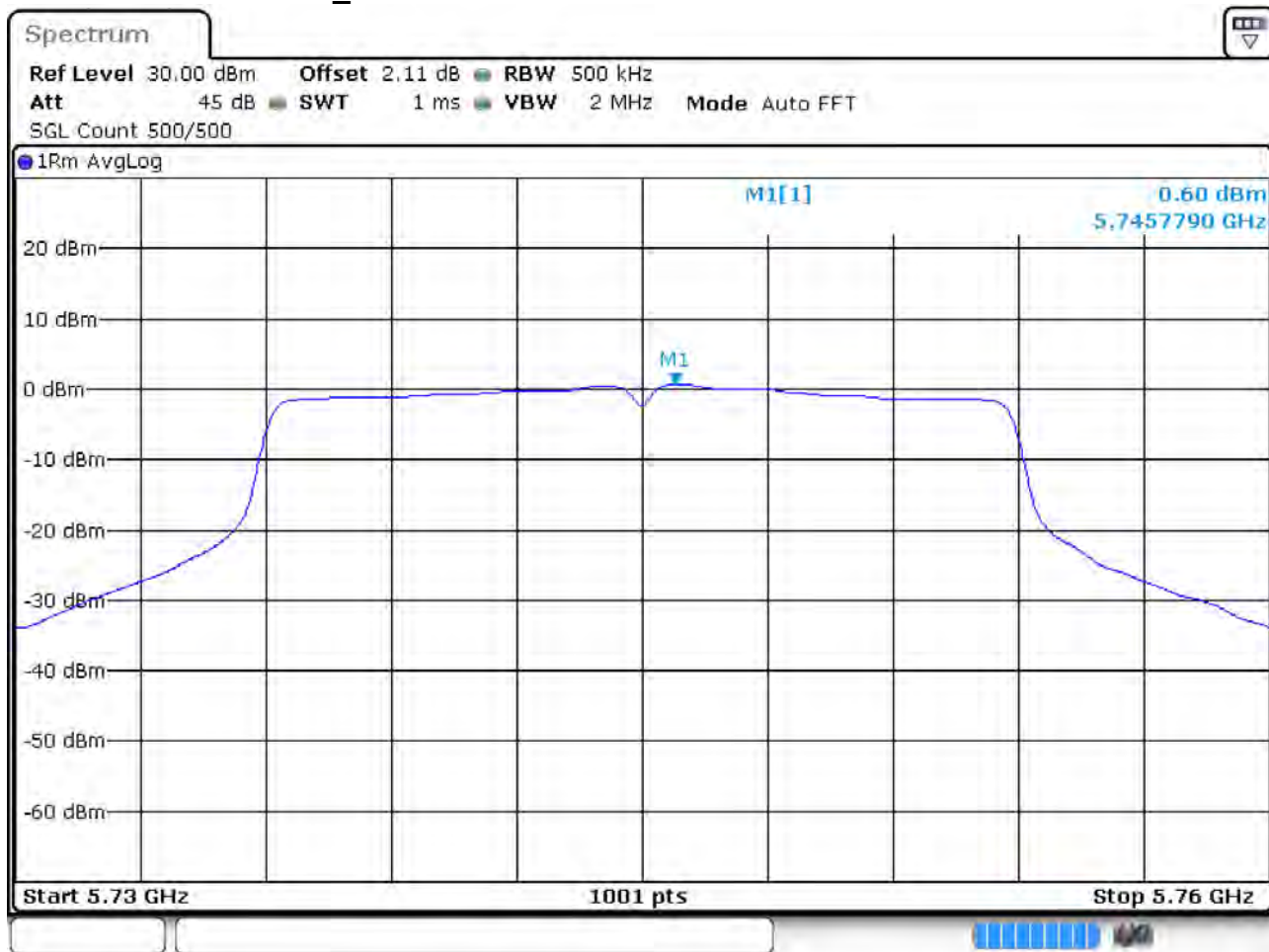
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4.8.2.64

11N20_149 ANT 2



Date: 4 JUN 2020 06:37:32



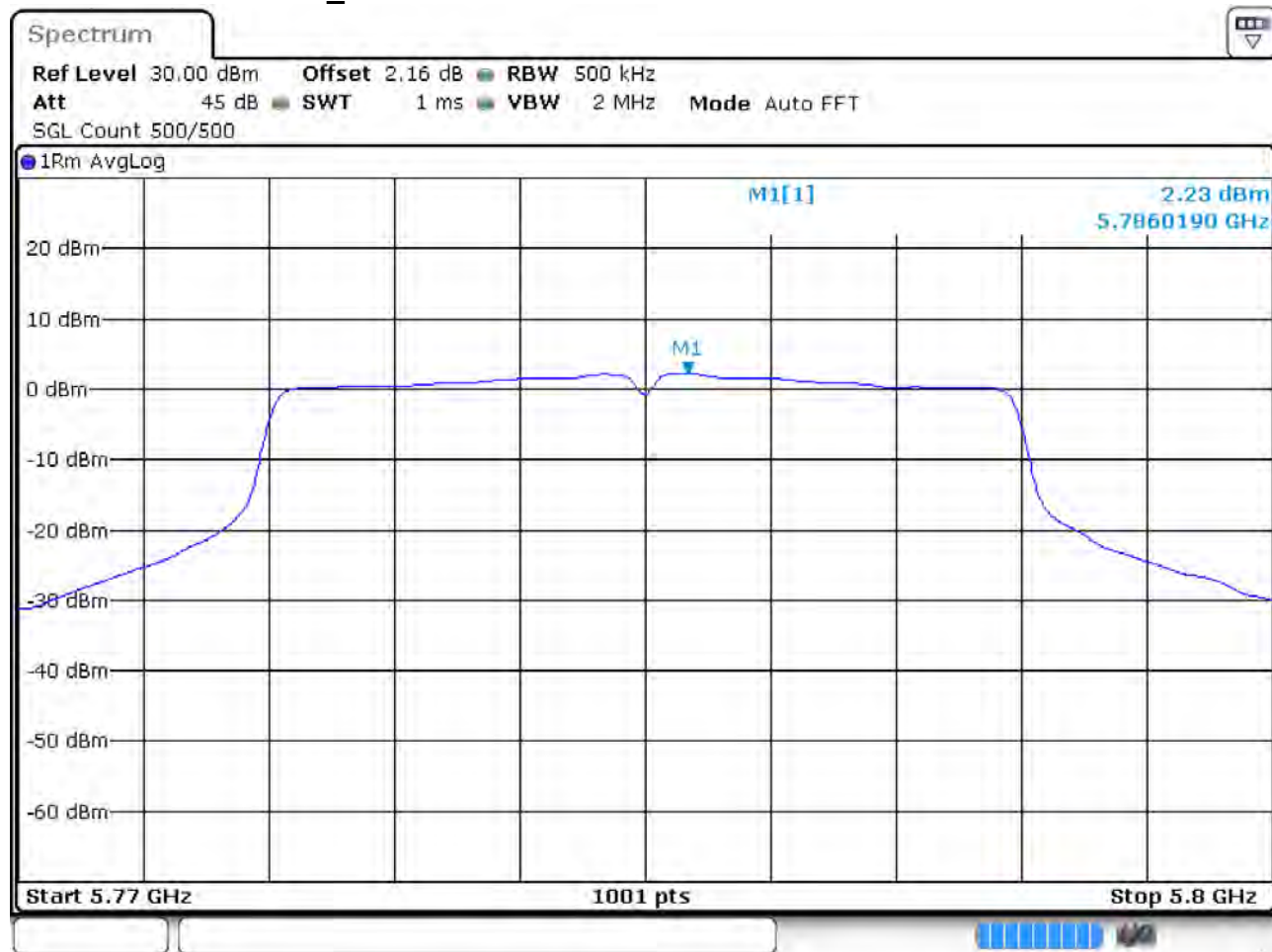
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4.8.2.65

11N20_157 ANT 1



Date: 5 JUN 2020 02:26:31



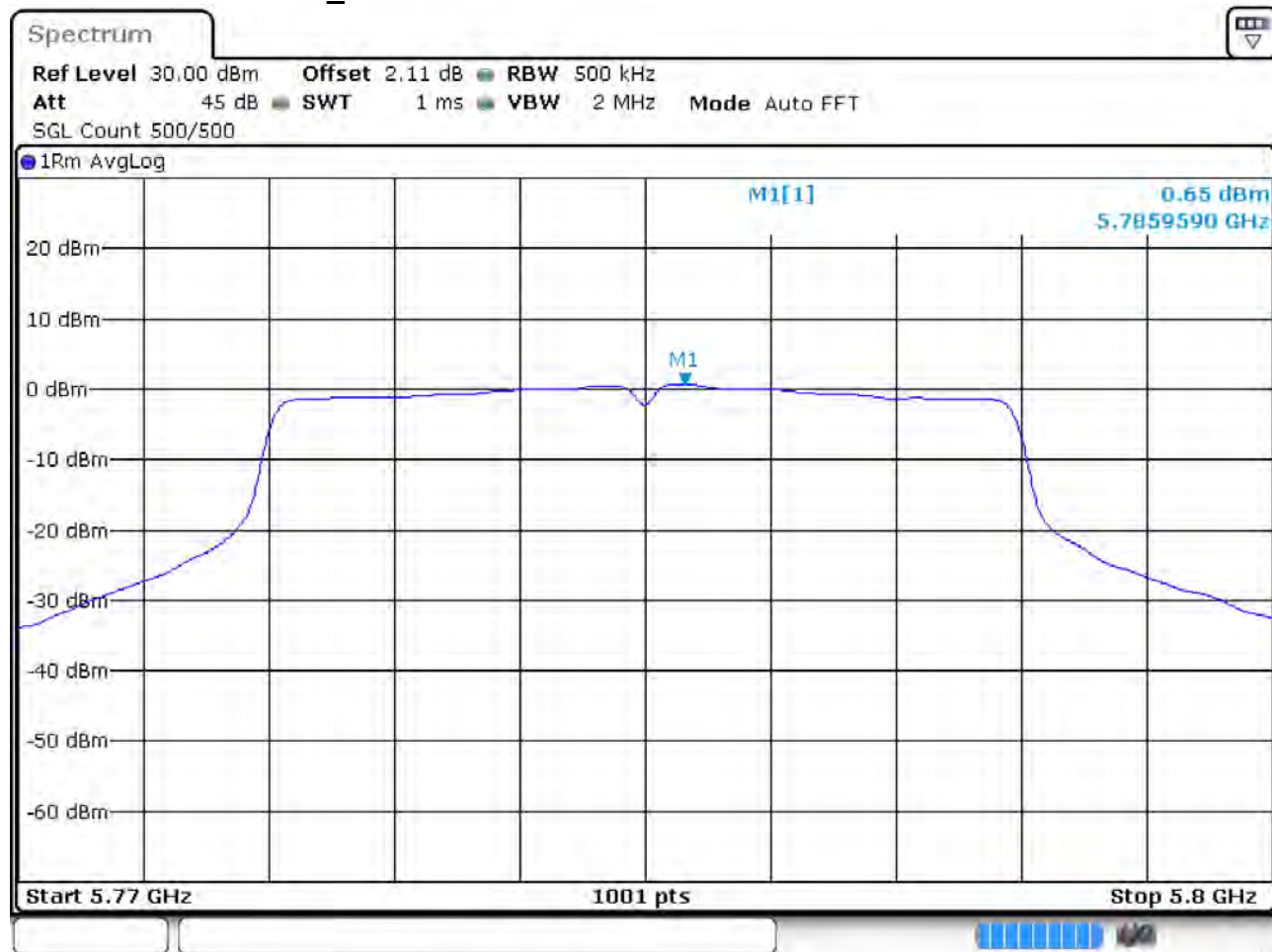
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4.8.2.66

11N20_157 ANT 2



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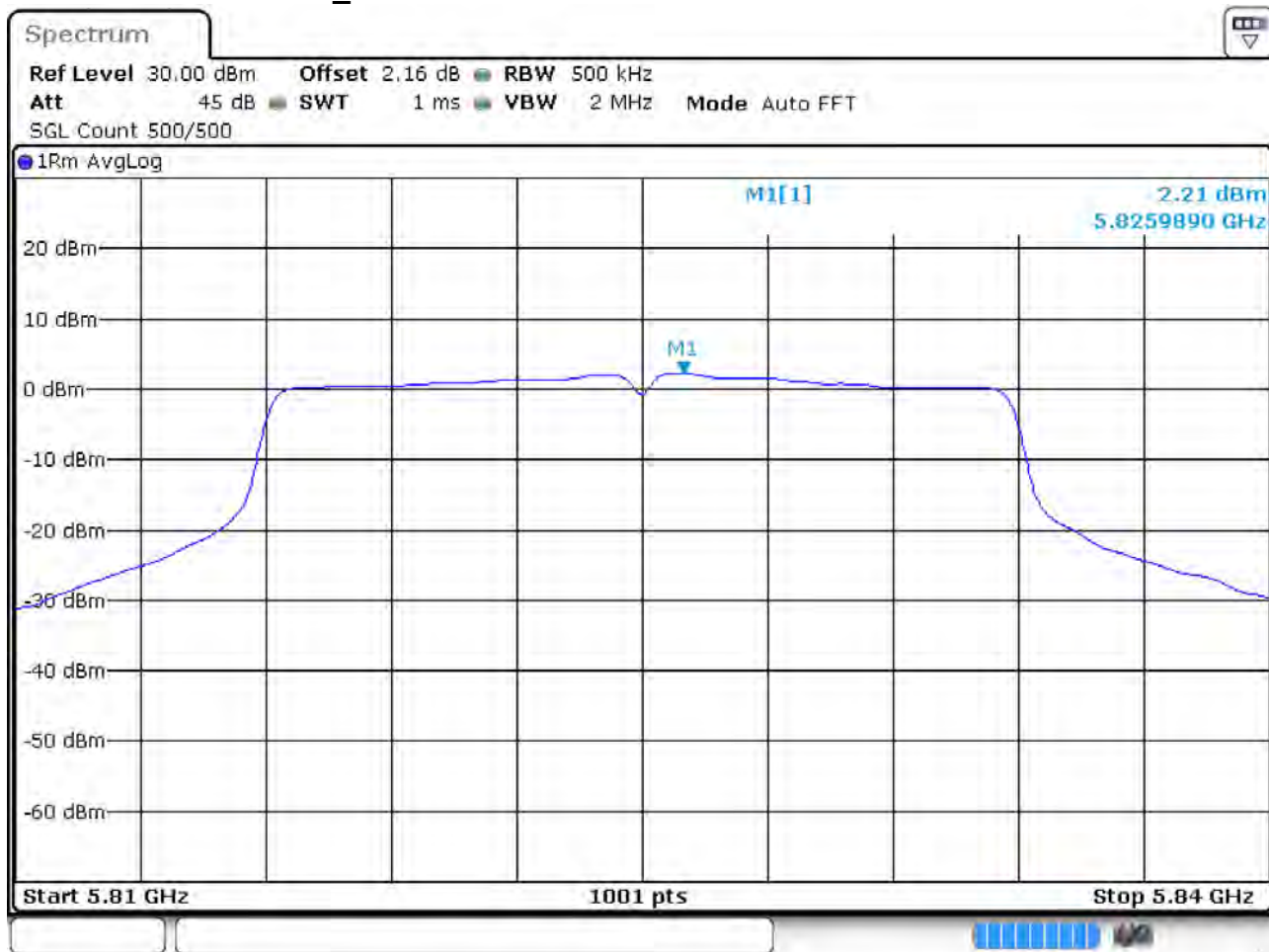
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4.8.2.67

11N20_165 ANT 1



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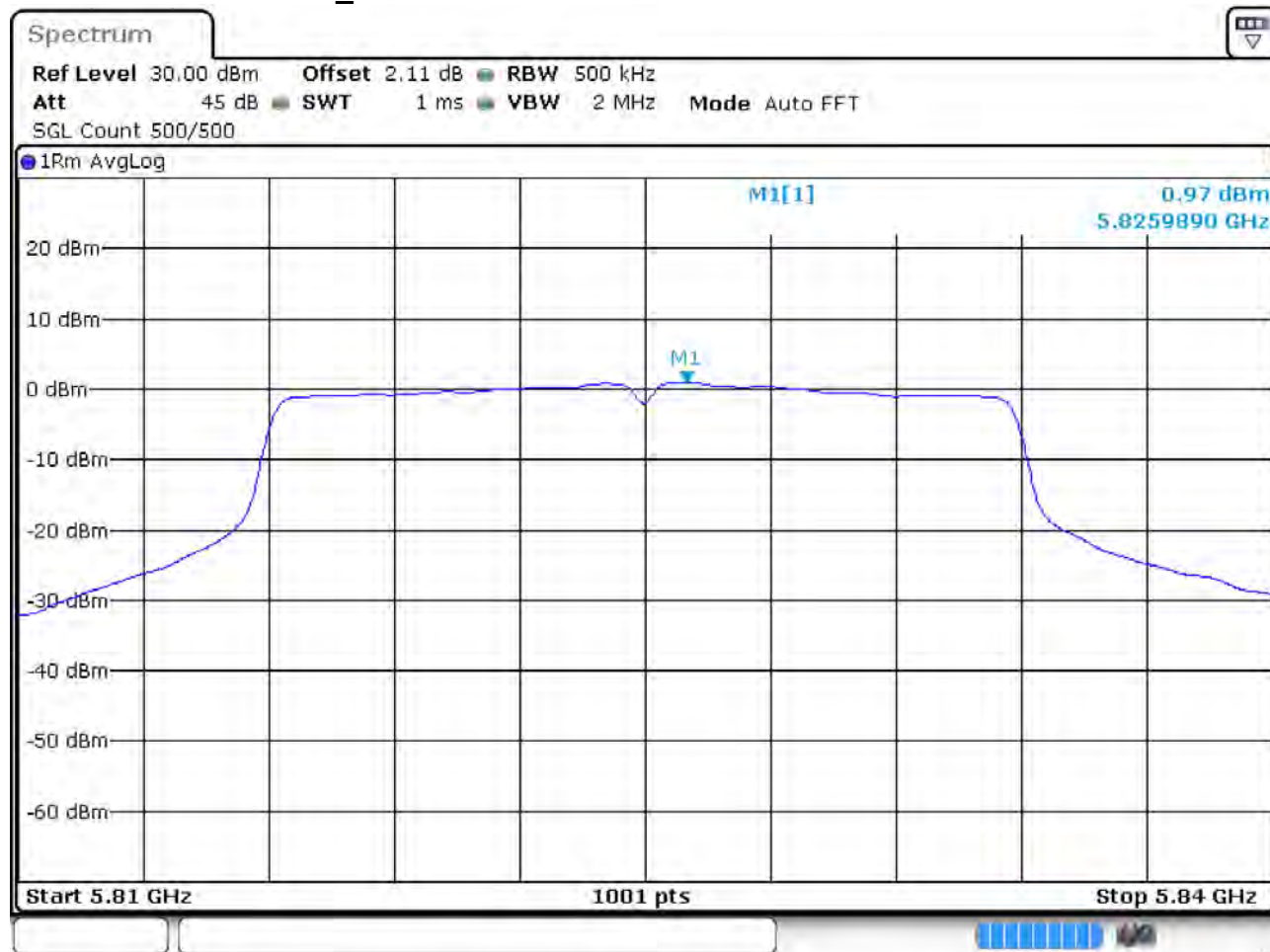
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4.8.2.68

11N20_165 ANT 2



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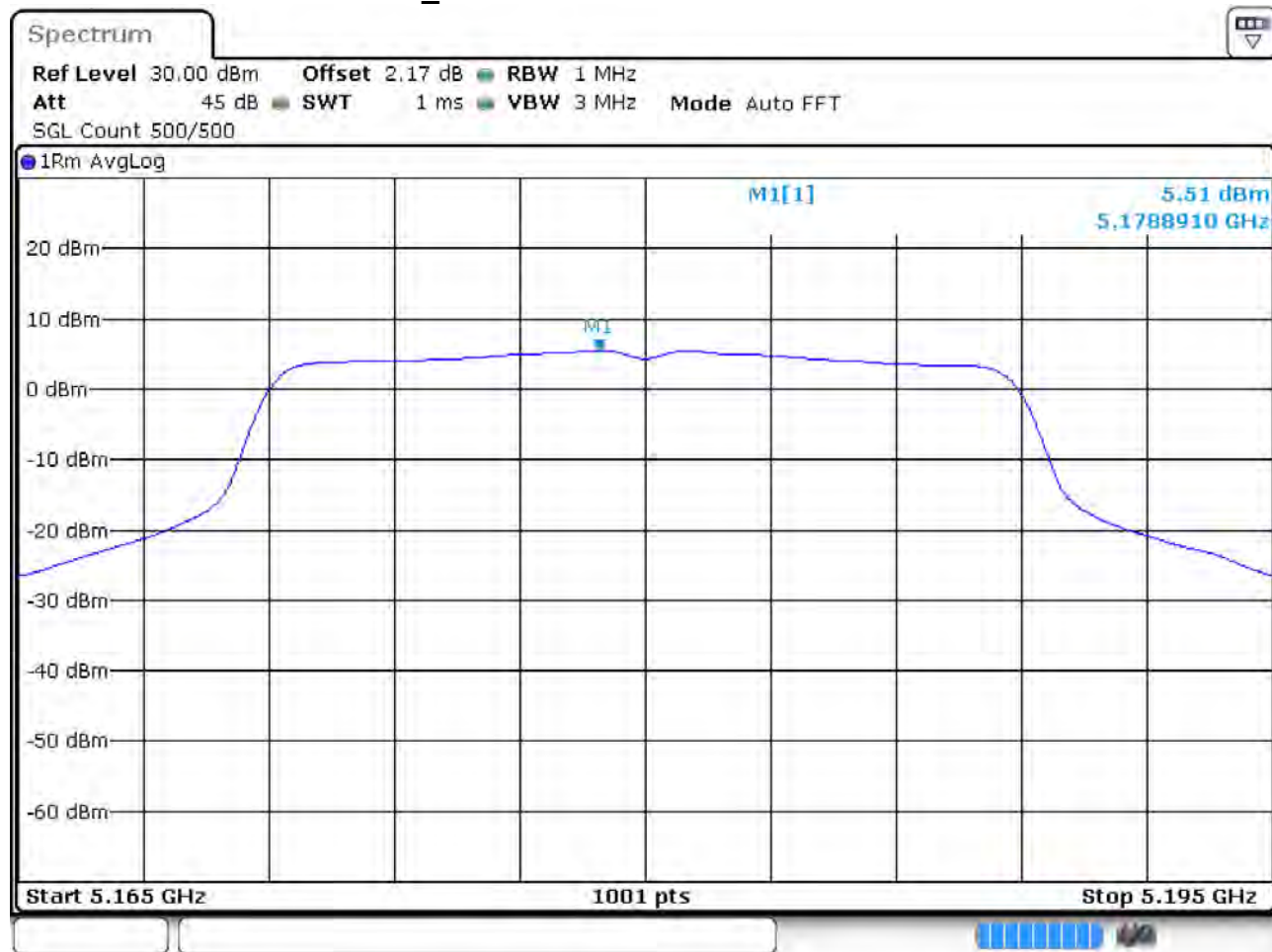
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4.8.2.69

11N20MIMO_36 ANT 1



Date: 4 JUN 2020 12:23:44



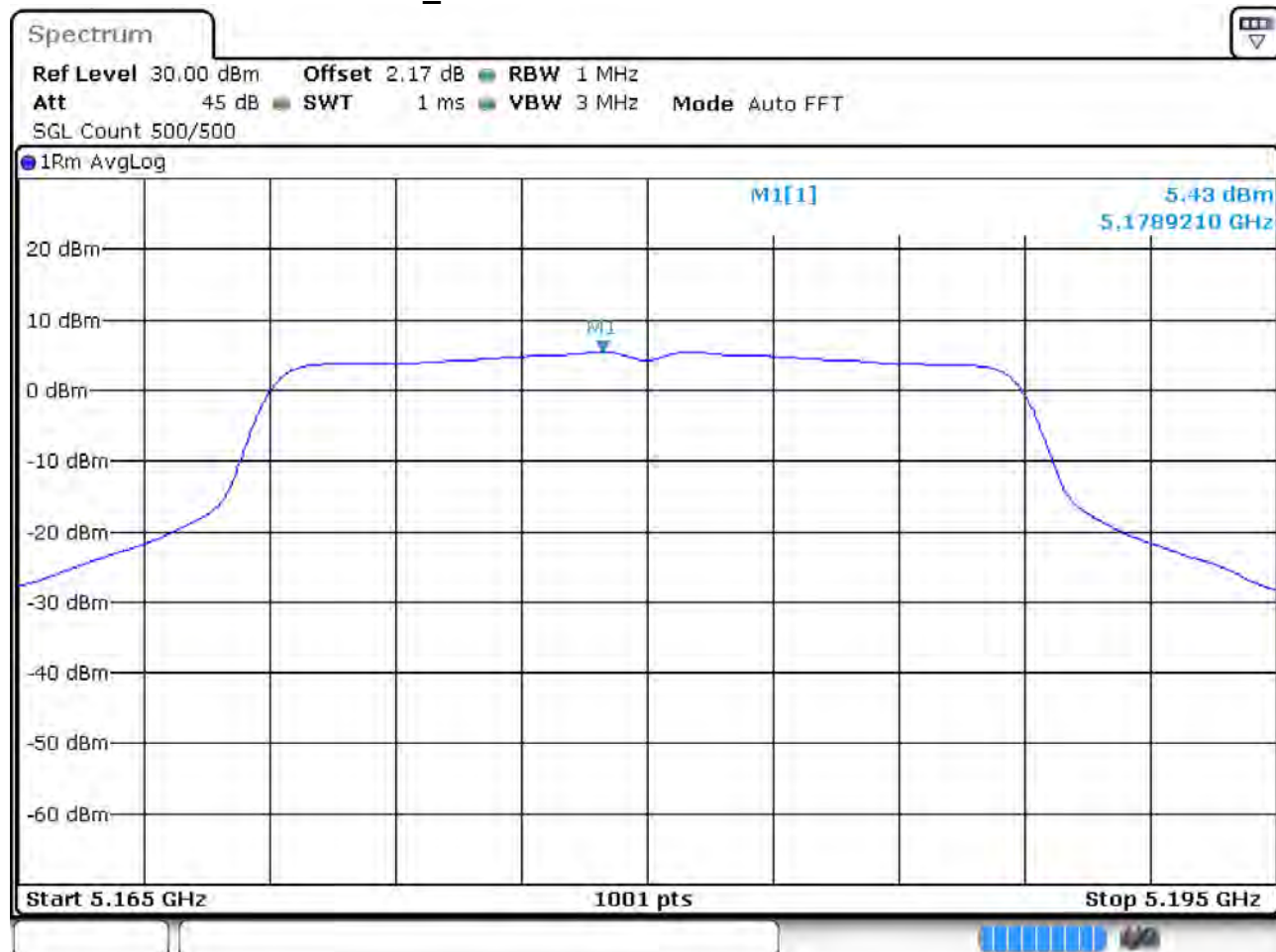
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4.8.2.70

11N20MIMO_36 ANT 2



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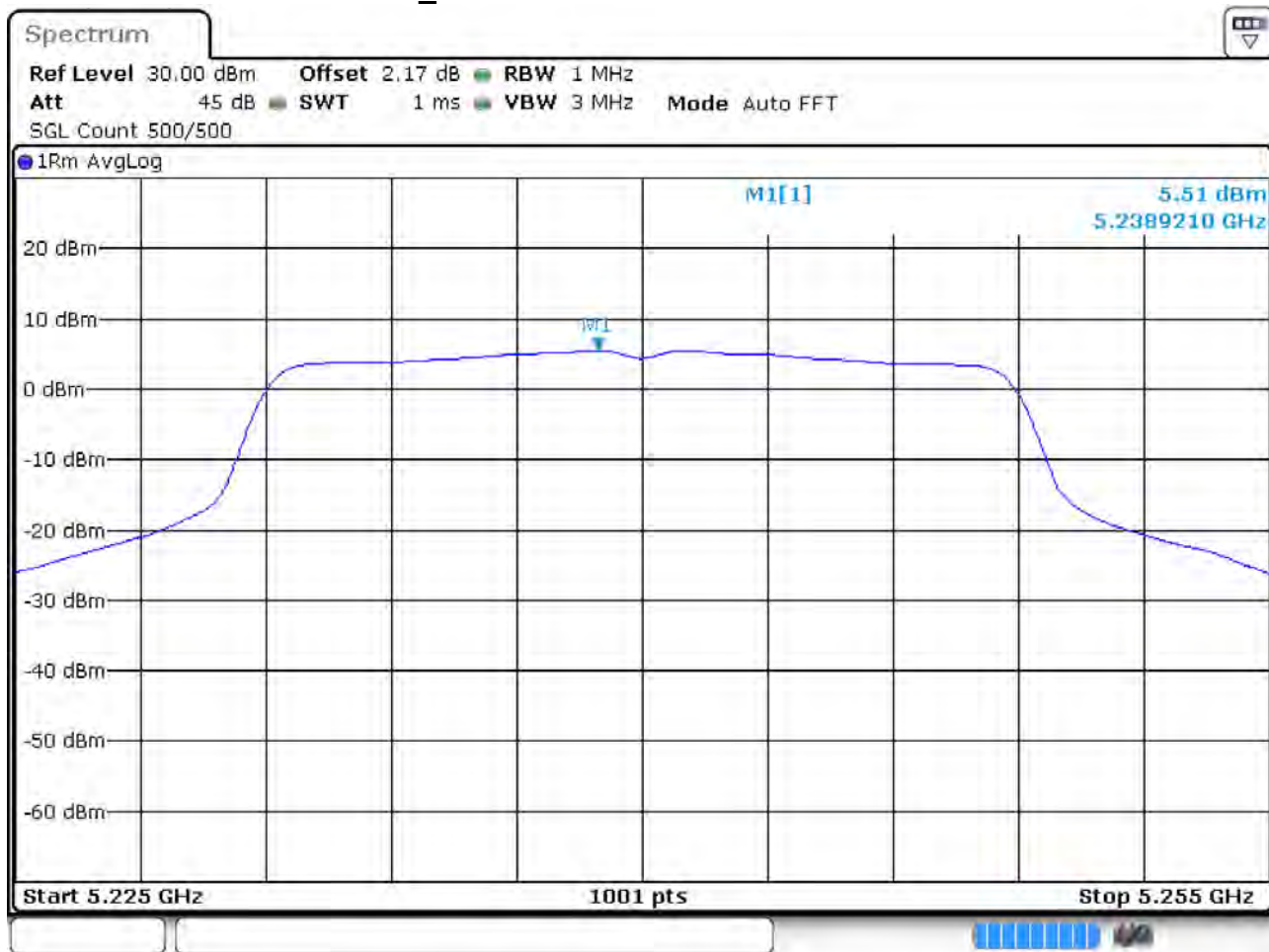
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4.8.2.71

11N20MIMO_48 ANT 1



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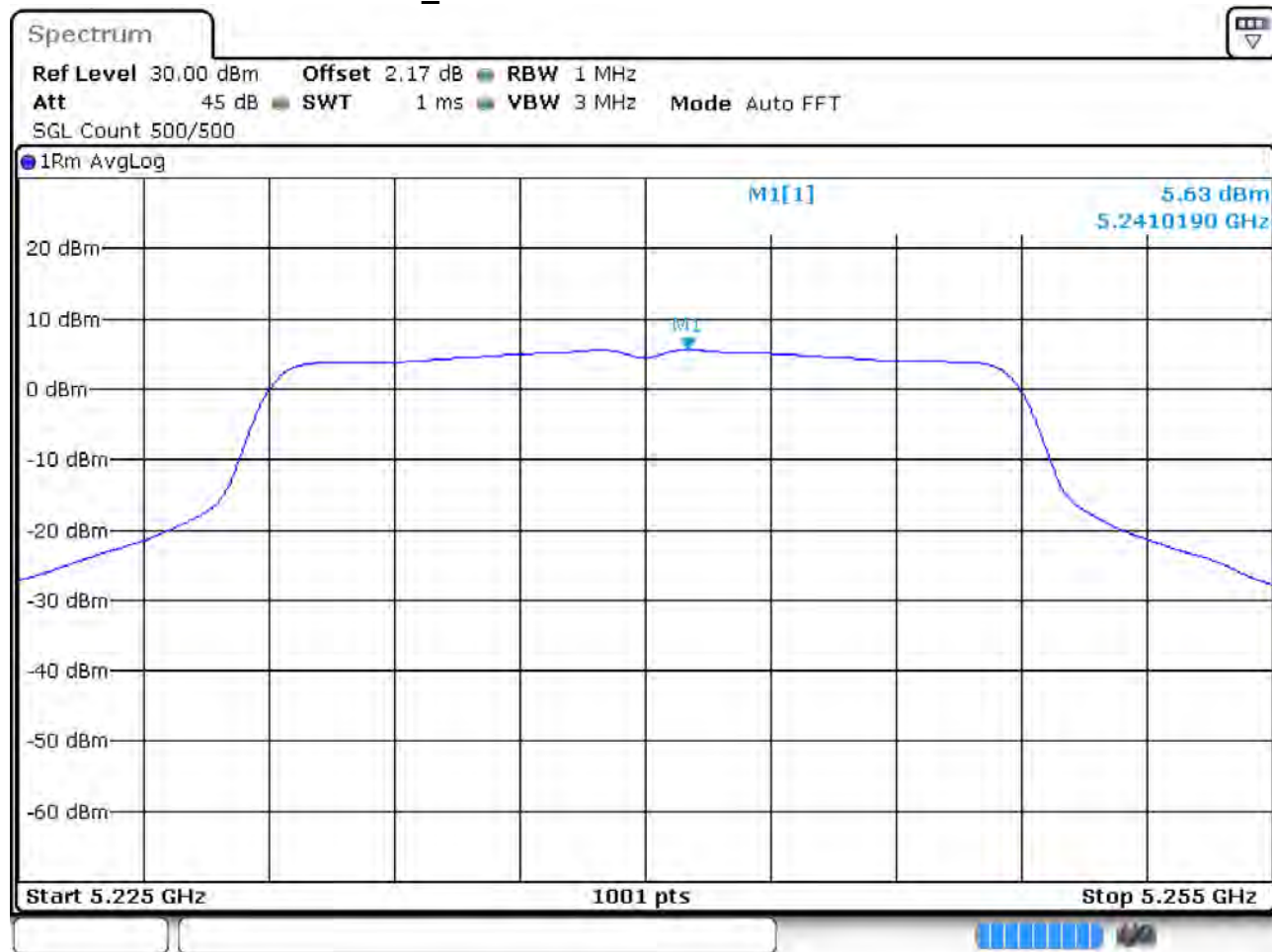
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4.8.2.72

11N20MIMO_48 ANT 2



Date: 4 JUN 2020 08:24:54



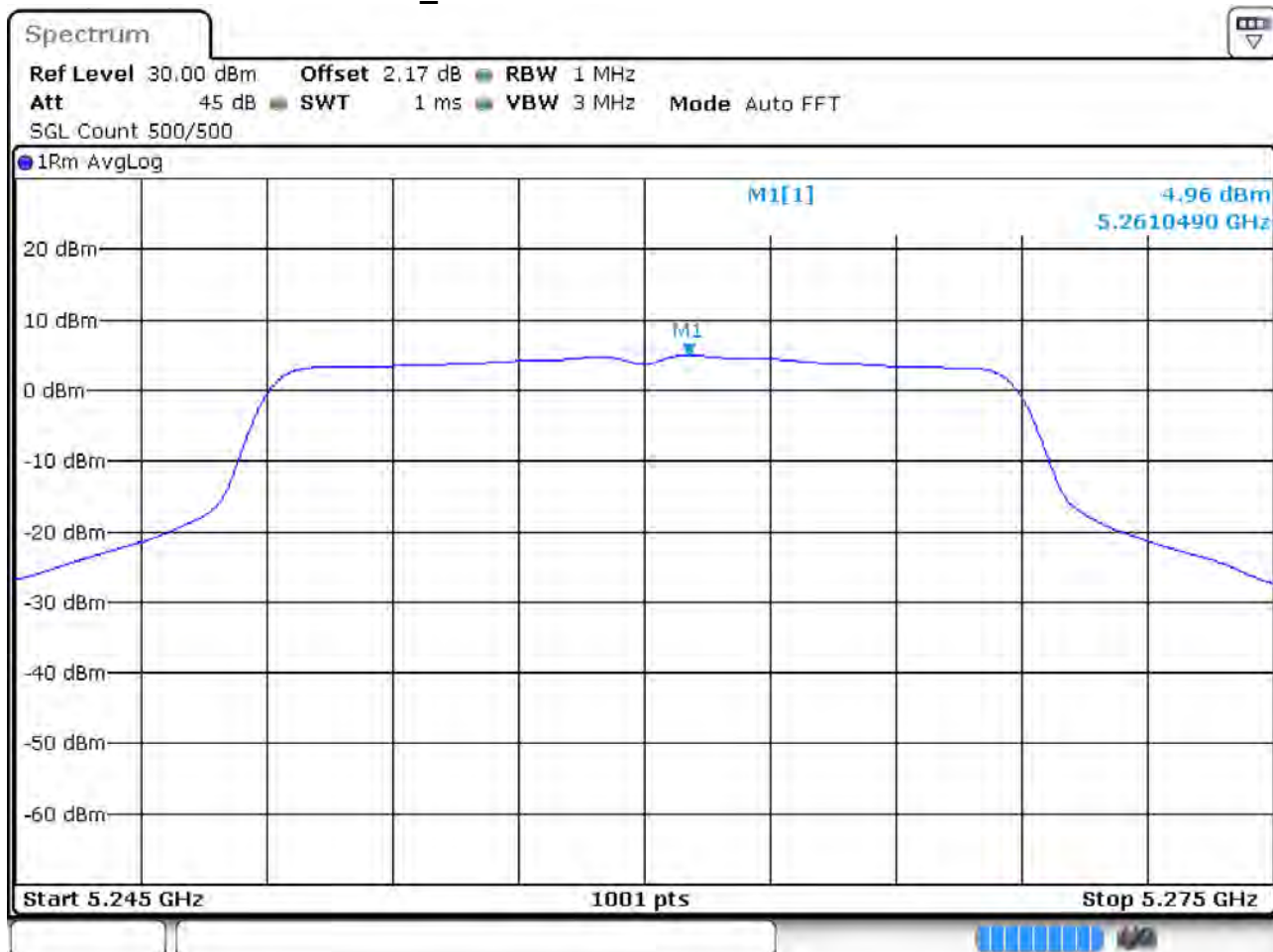
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4.8.2.73

11N20MIMO_52 ANT 1



Date: 4 JUN 2020 12:28:16



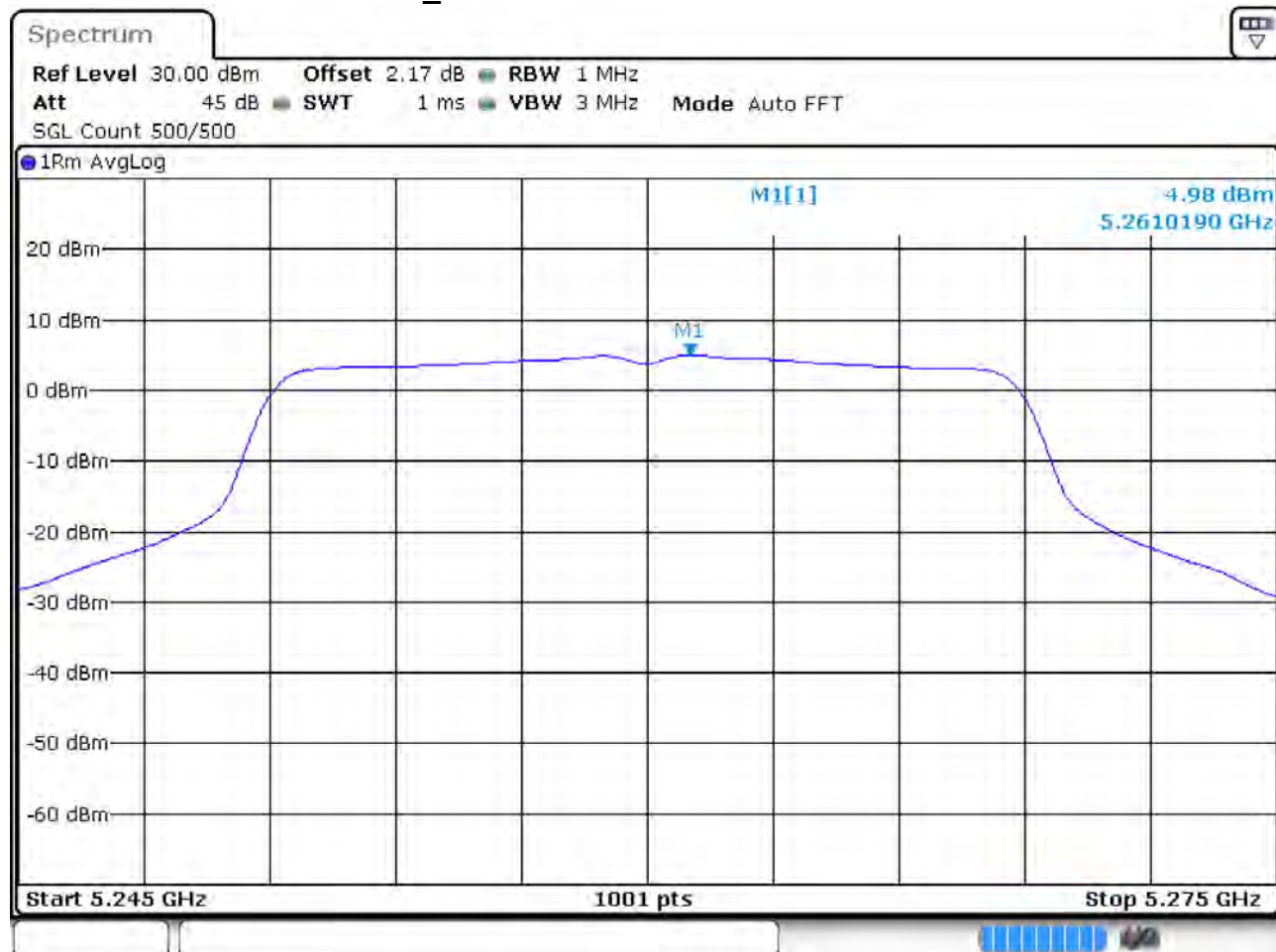
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4.8.2.74

11N20MIMO_52 ANT 2



Date: 4 JUN 2020 08:26:23

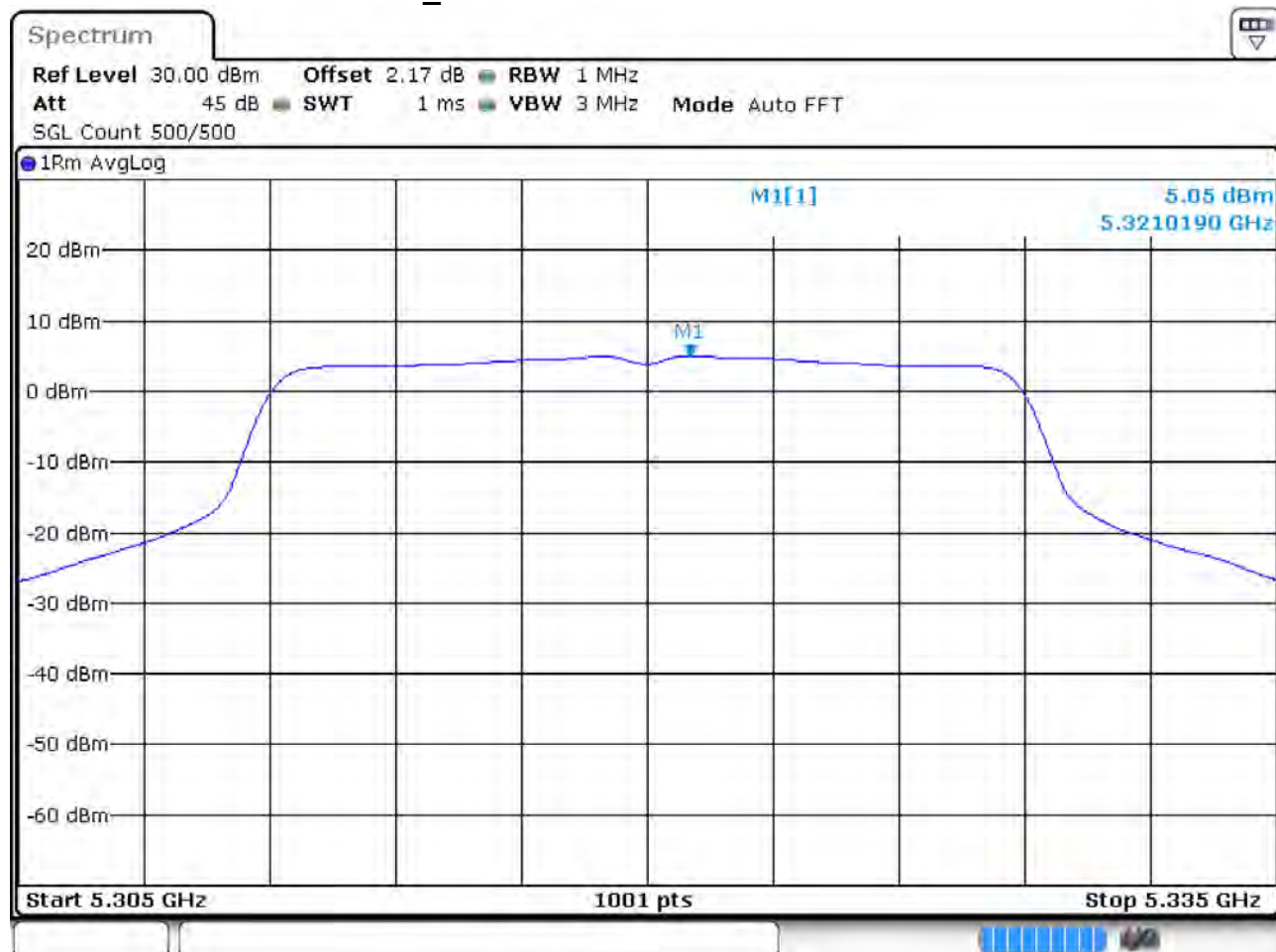


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4.8.2.75 11N20MIMO_64 ANT 1



Date: 4 JUN 2020 12:30:53



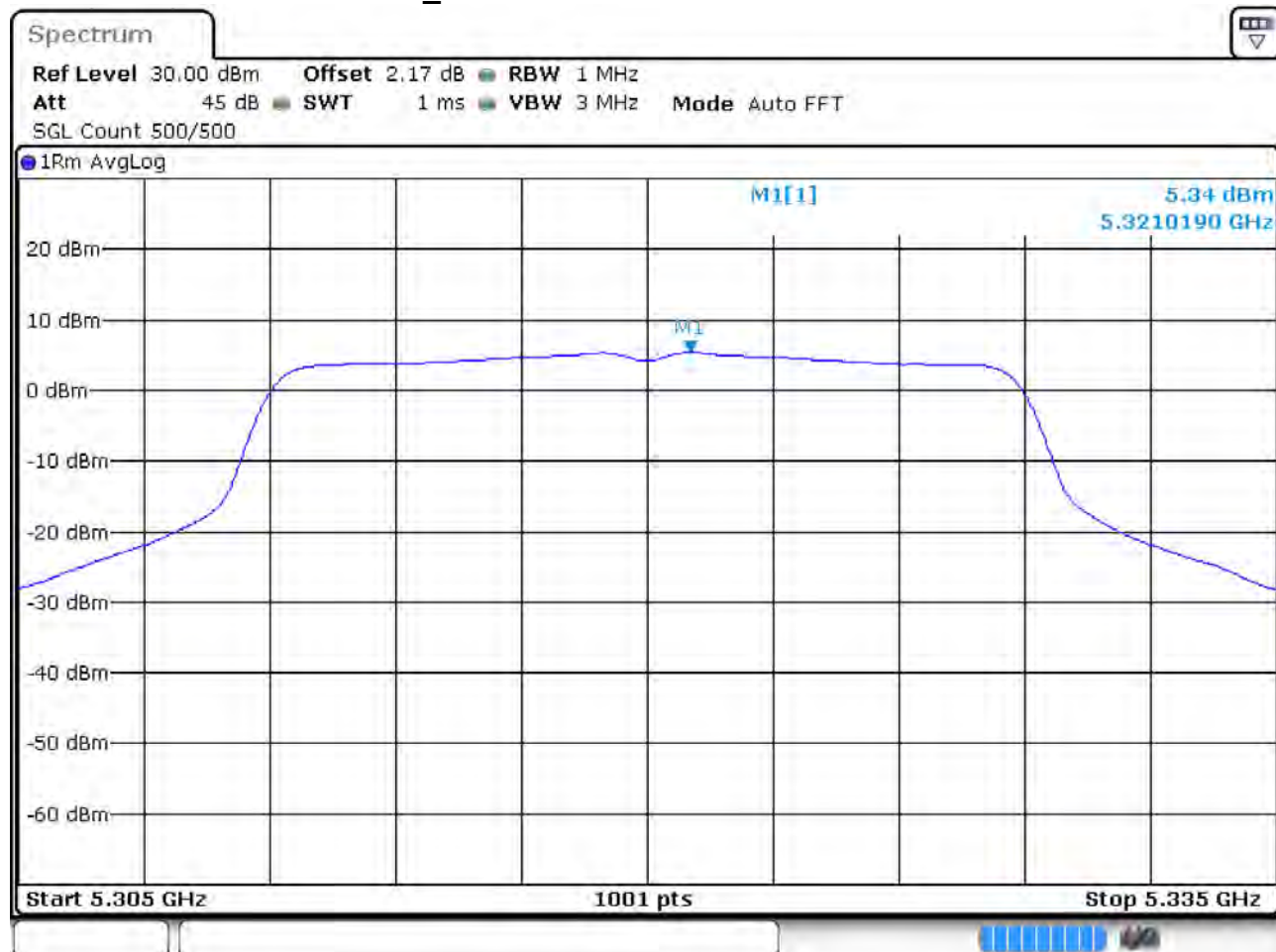
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4.8.2.76

11N20MIMO_64 ANT 2



Date: 4 JUN 2020 08:29:20



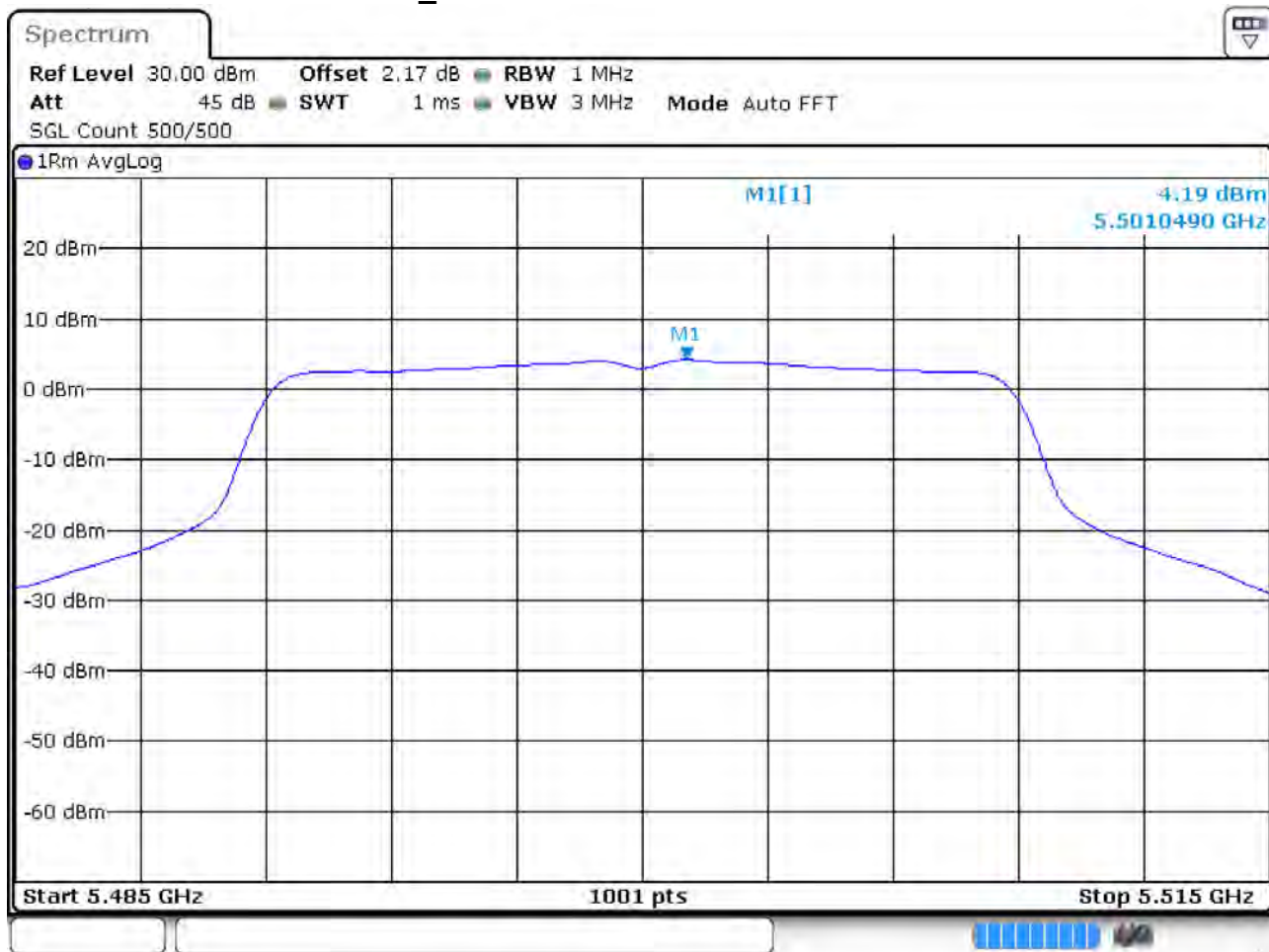
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4.8.2.77

11N20MIMO_100 ANT 1



Date: 4 JUN 2020 12:32:22



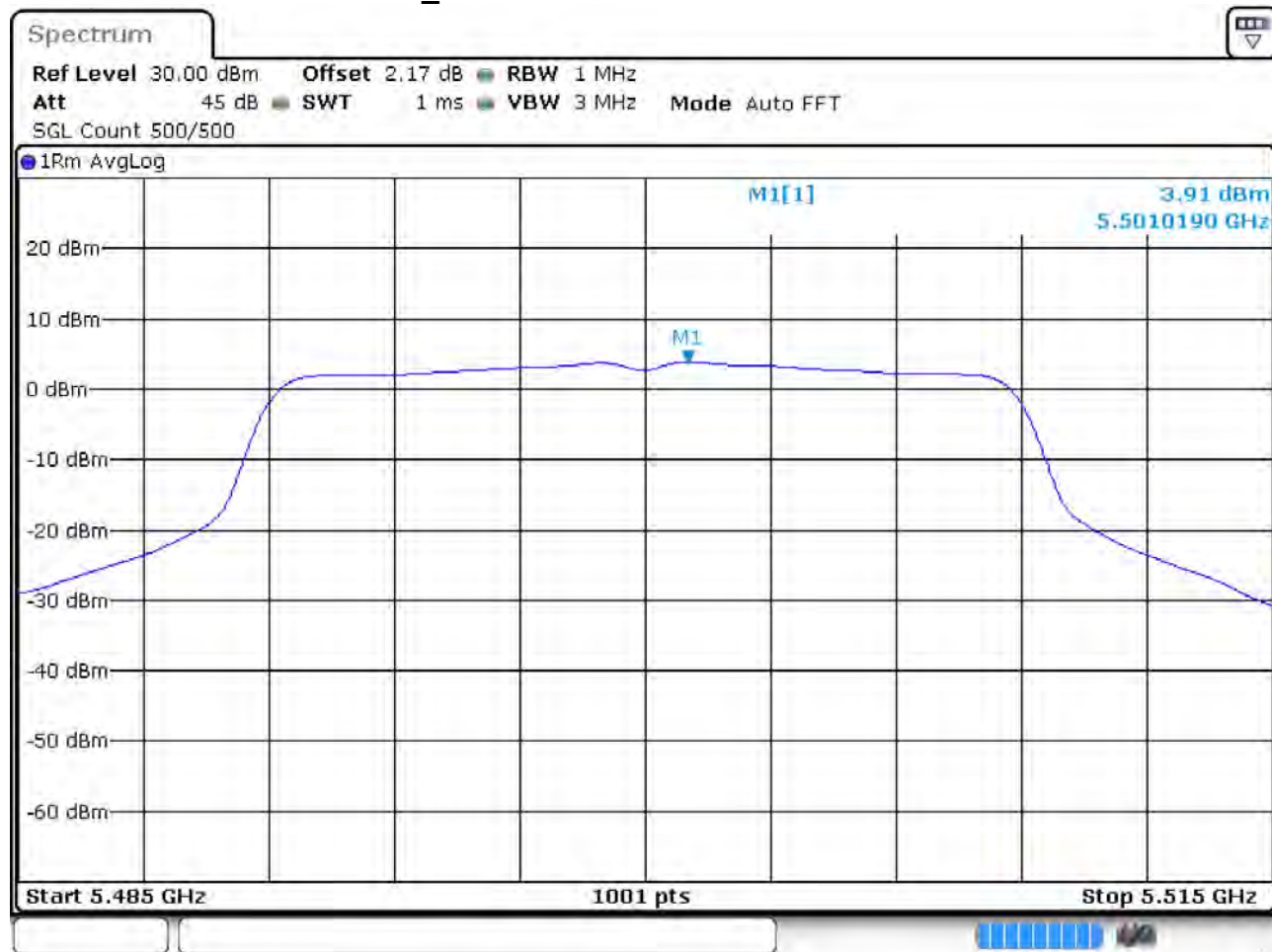
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4.8.2.78

11N20MIMO_100 ANT 2



Date: 4 JUN 2020 08:47:24



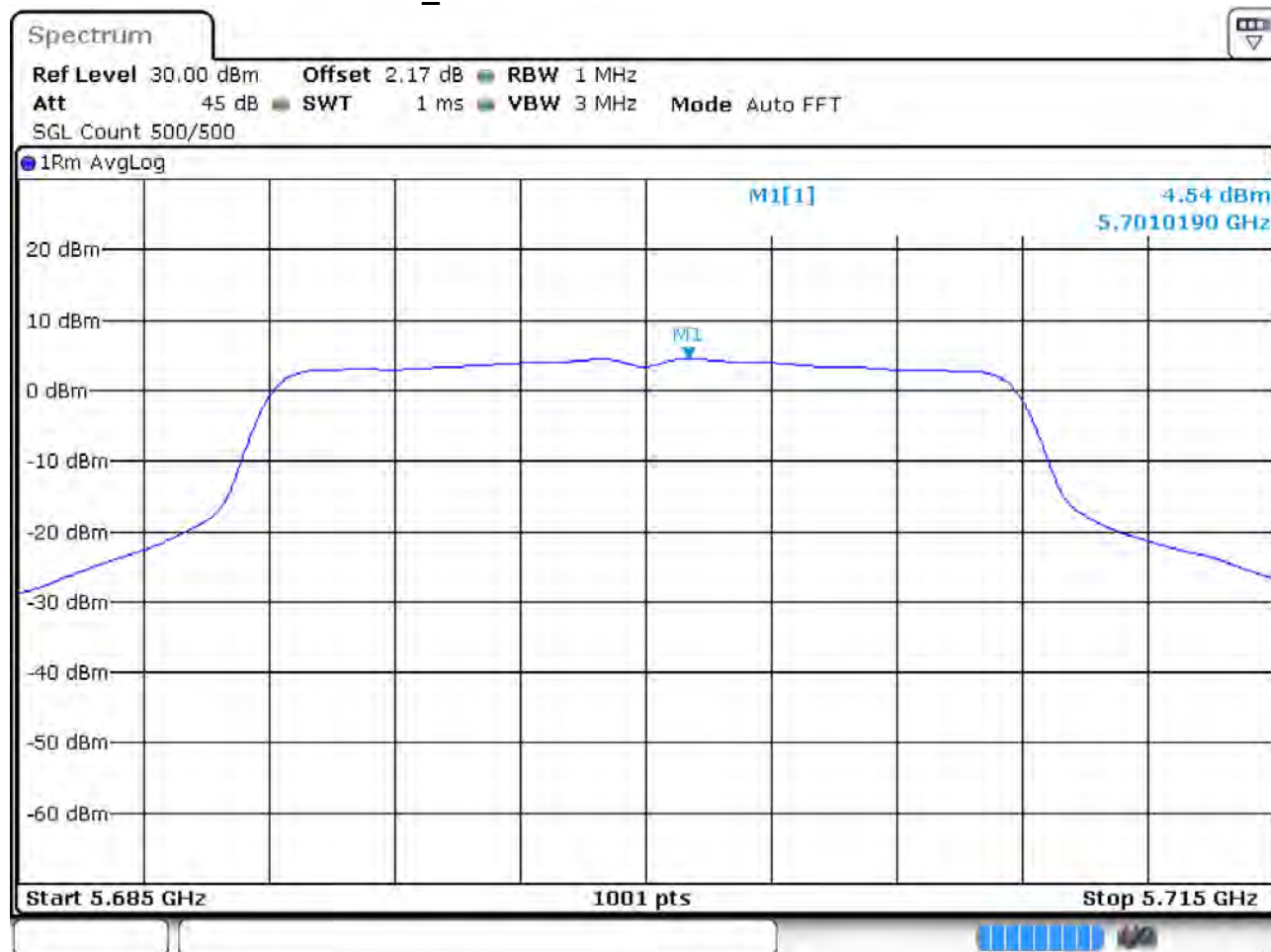
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4.8.2.79

11N20MIMO_140 ANT 1



Date: 4 JUN 2020 12:35:05

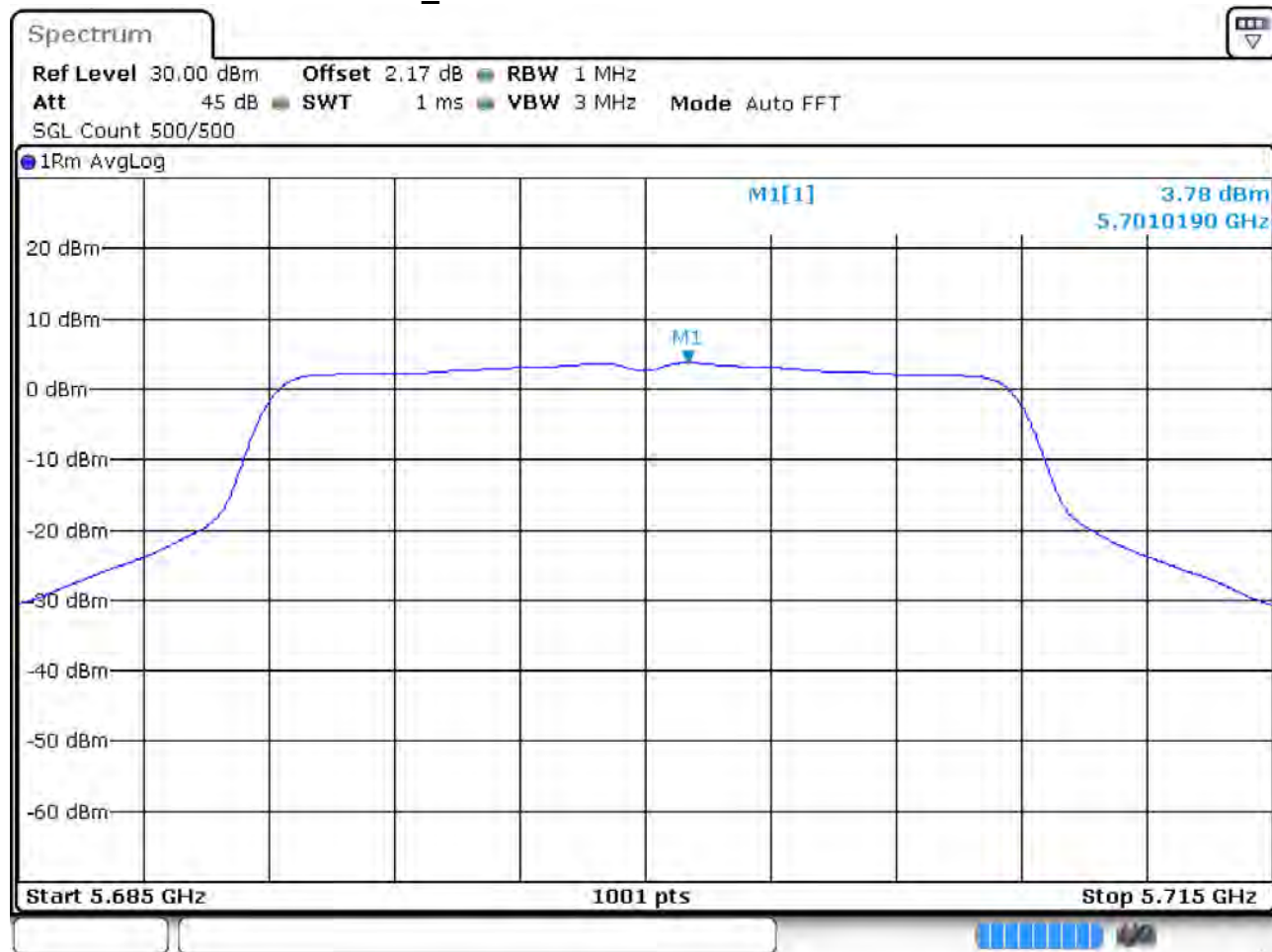


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4.8.2.80

11N20MIMO_140 ANT 2



Date: 4 JUN 2020 08:54:47



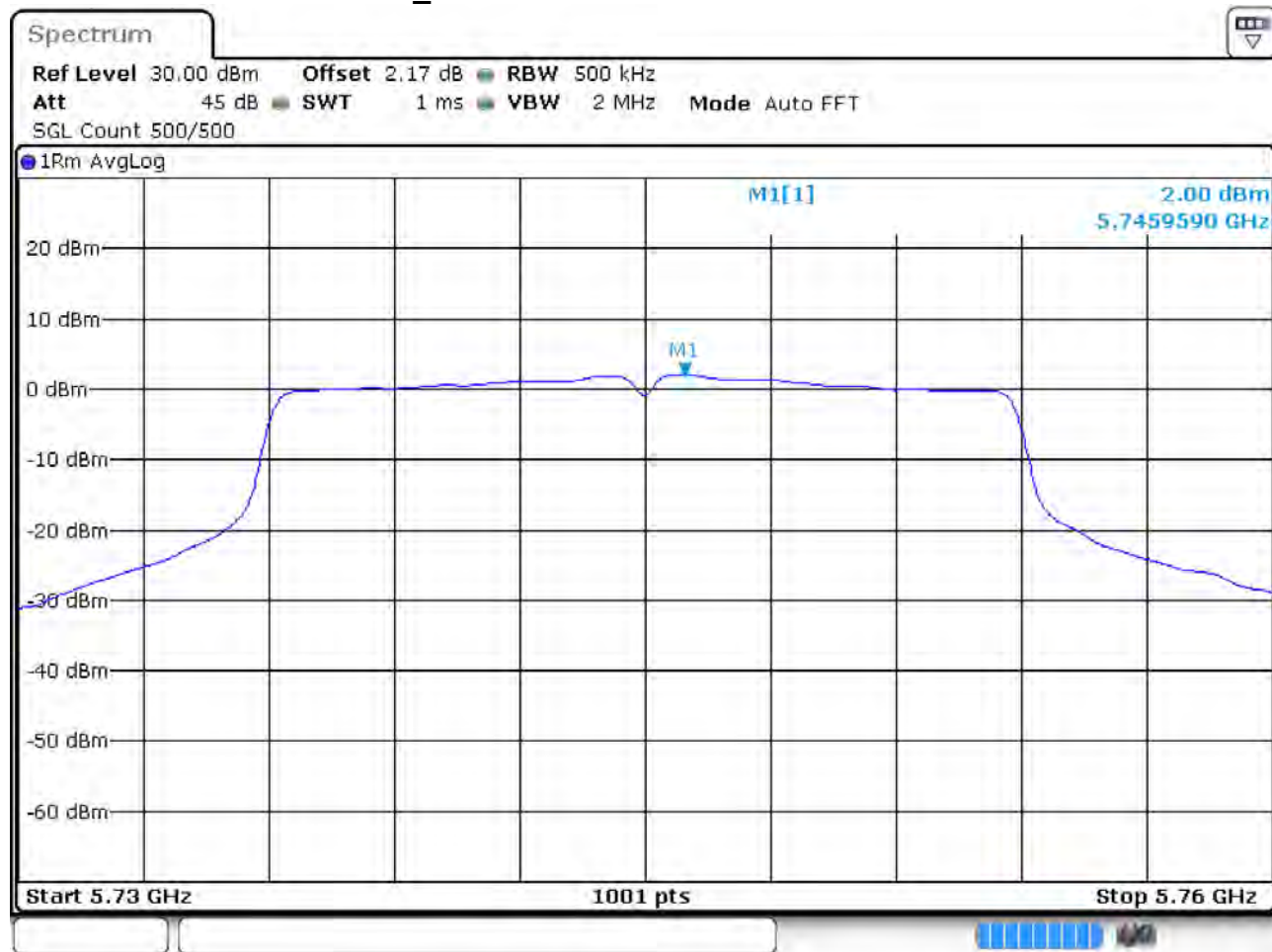
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4.8.2.81

11N20MIMO_149 ANT 1



Date: 4 JUN 2020 12:36:49



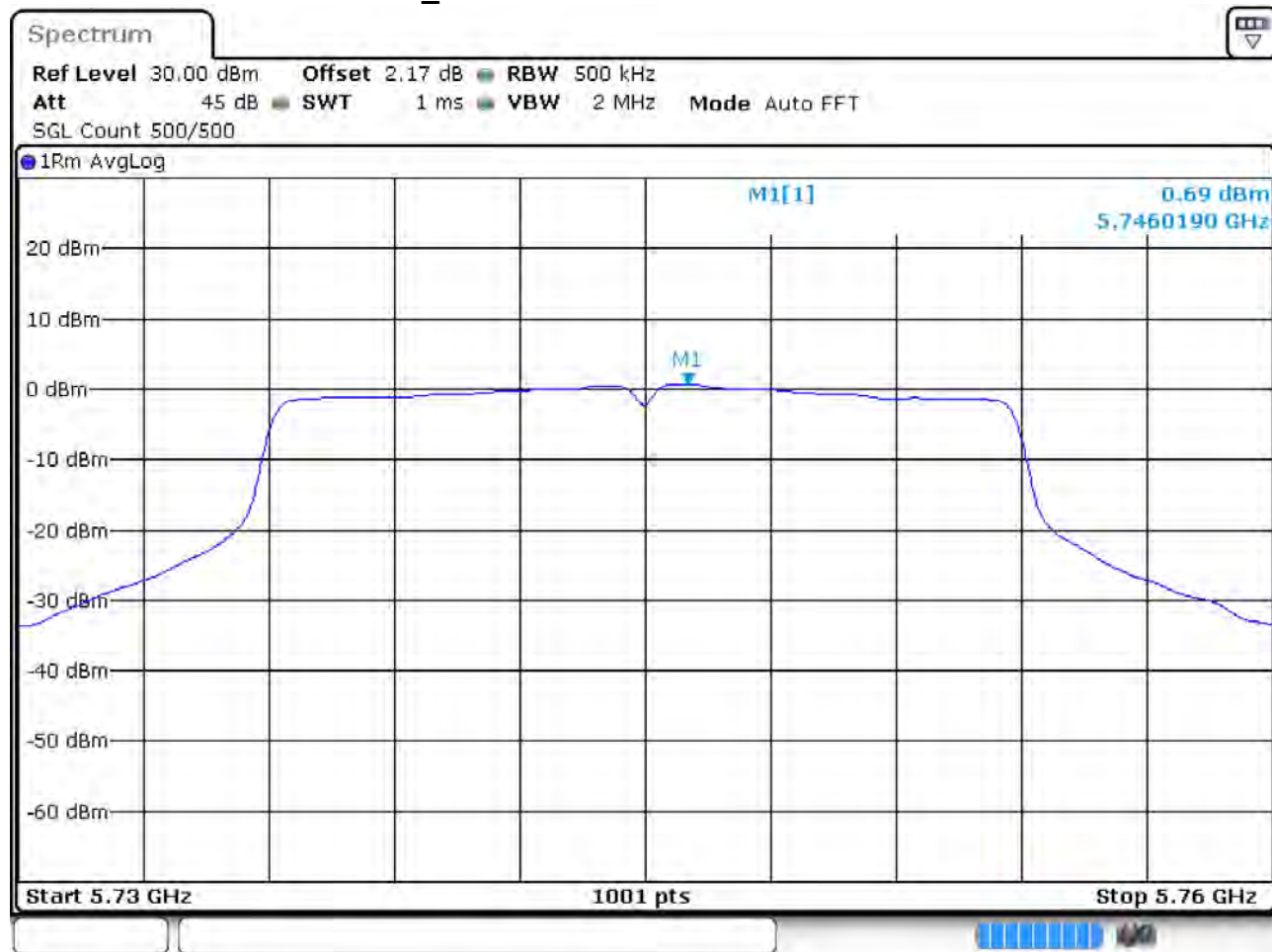
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4.8.2.82

11N20MIMO_149 ANT 2



Date: 4 JUN 2020 08:57:02



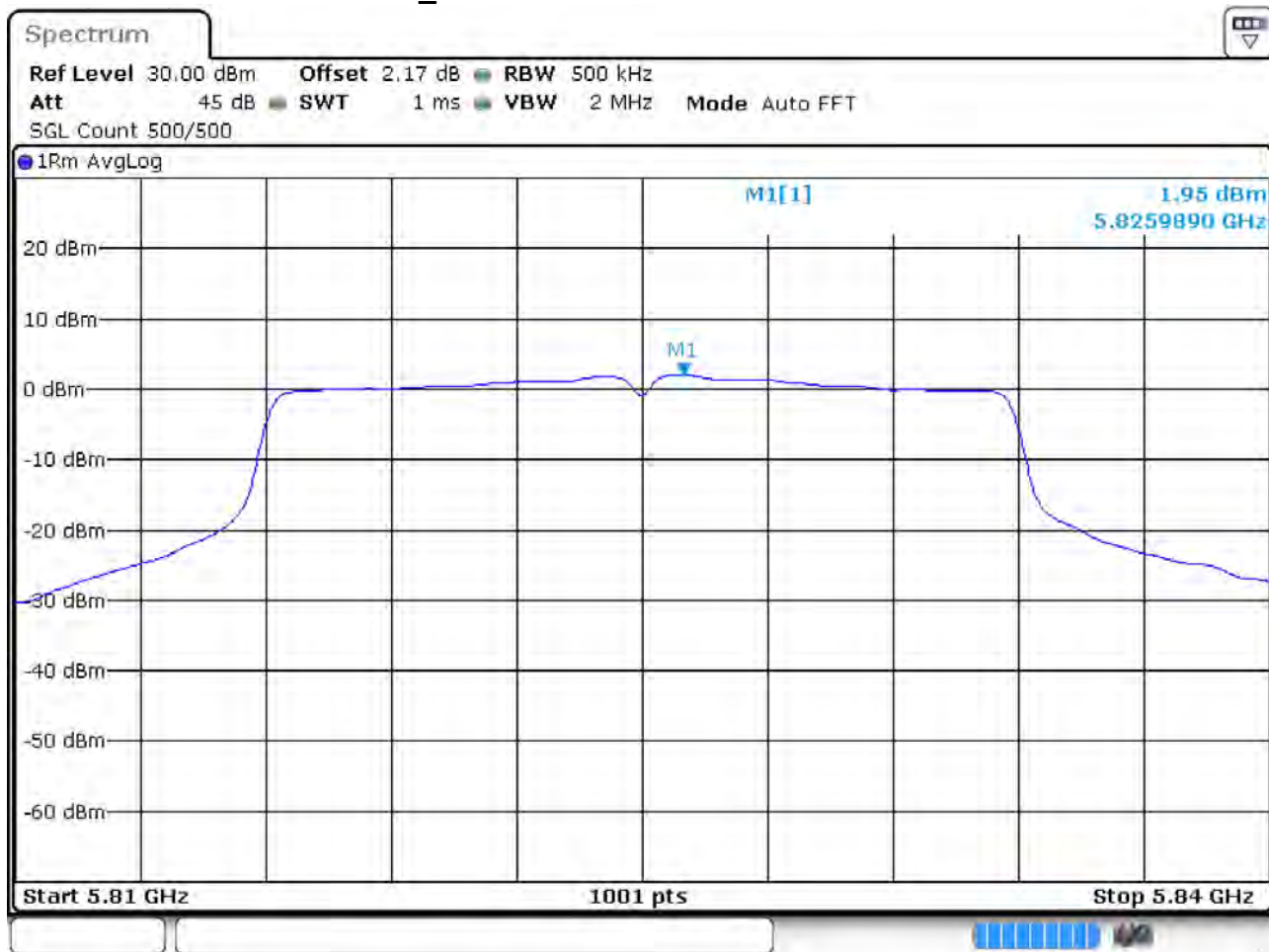
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4.8.2.83

11N20MIMO_165 ANT 1



Date: 4 JUN 2020 12:40:08



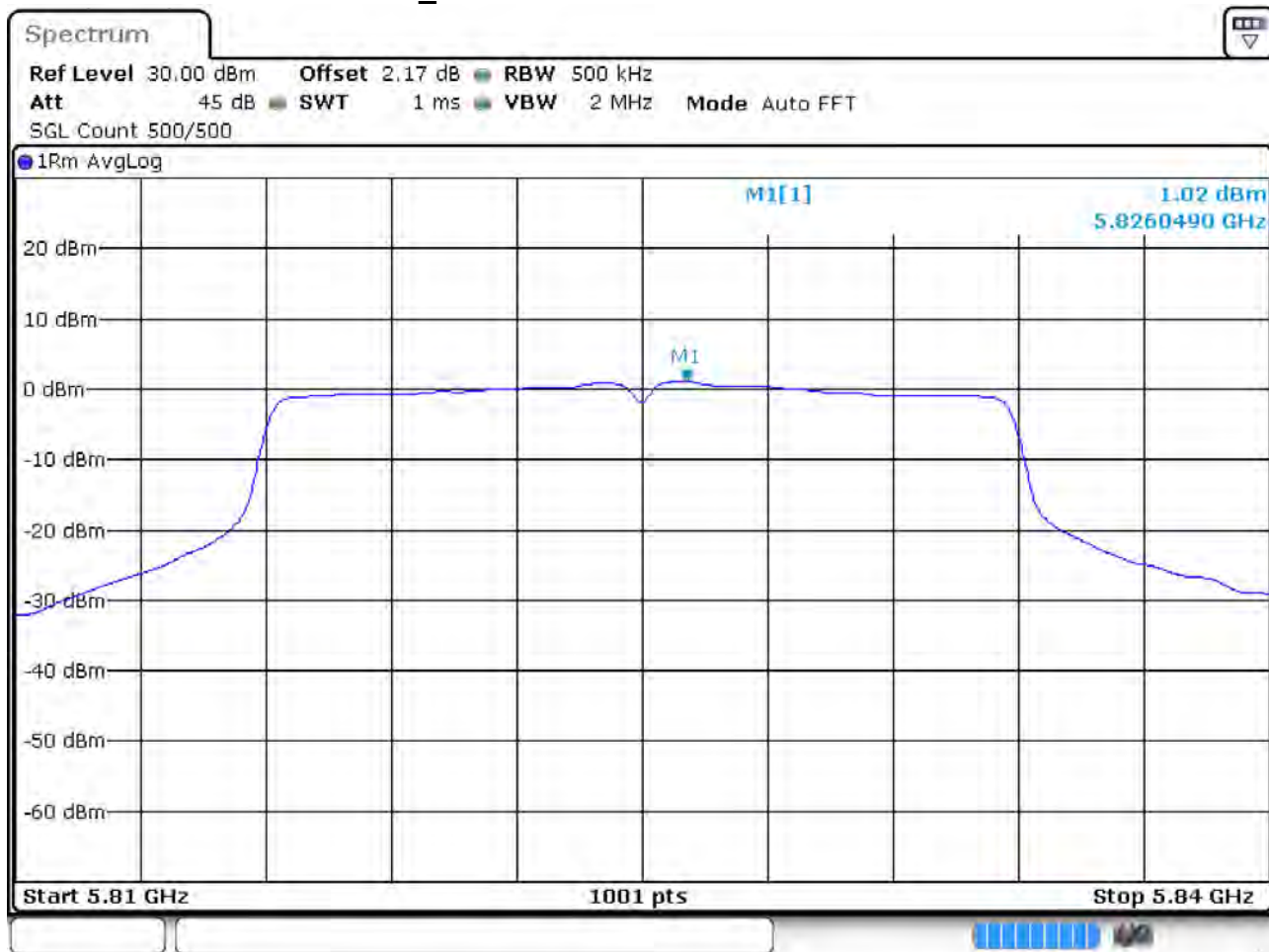
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4.8.2.84

11N20MIMO_165 ANT 2



Date: 4 JUN 2020 09:00:20



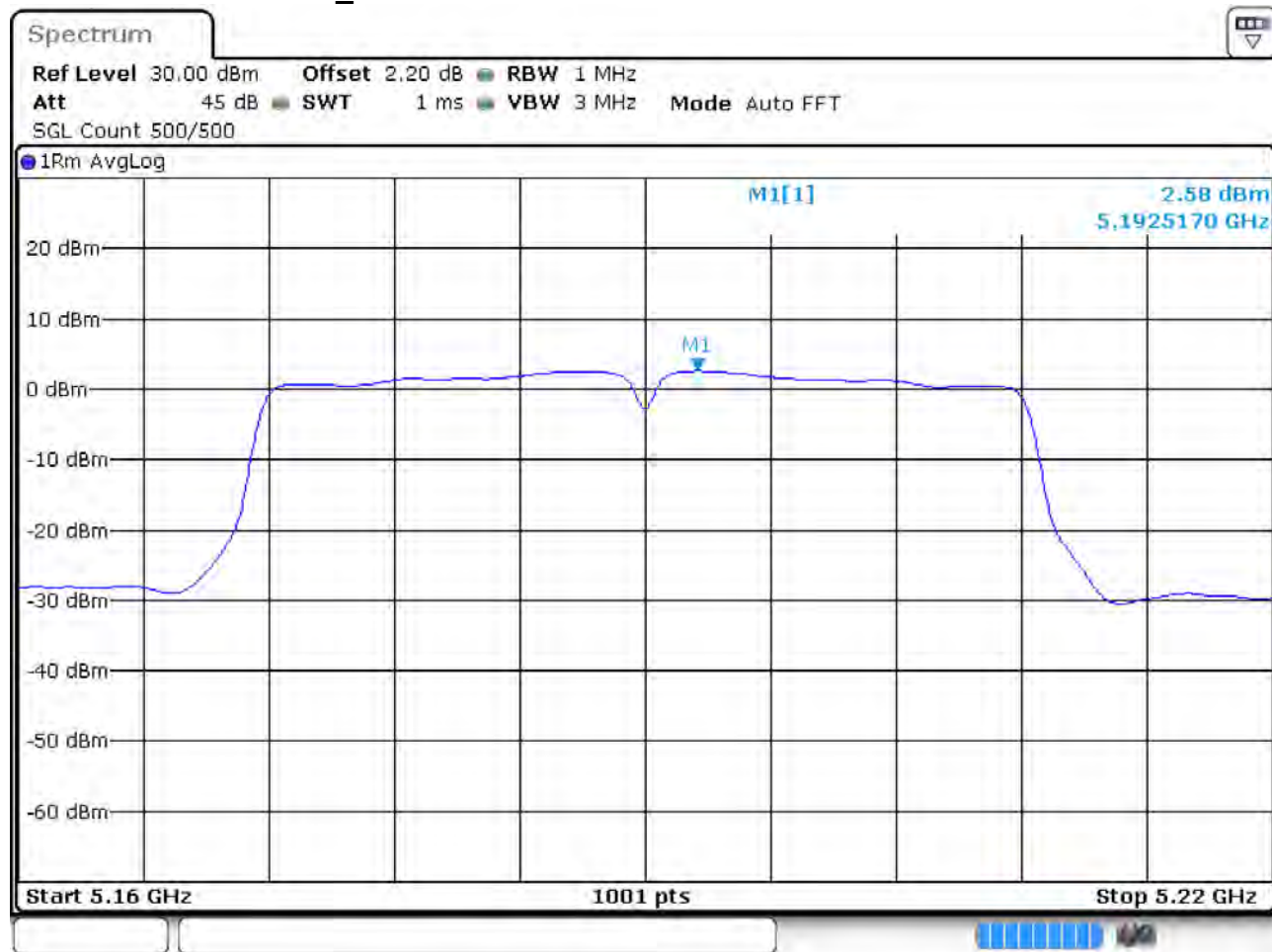
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4.8.2.85

11N40_38 ANT 1



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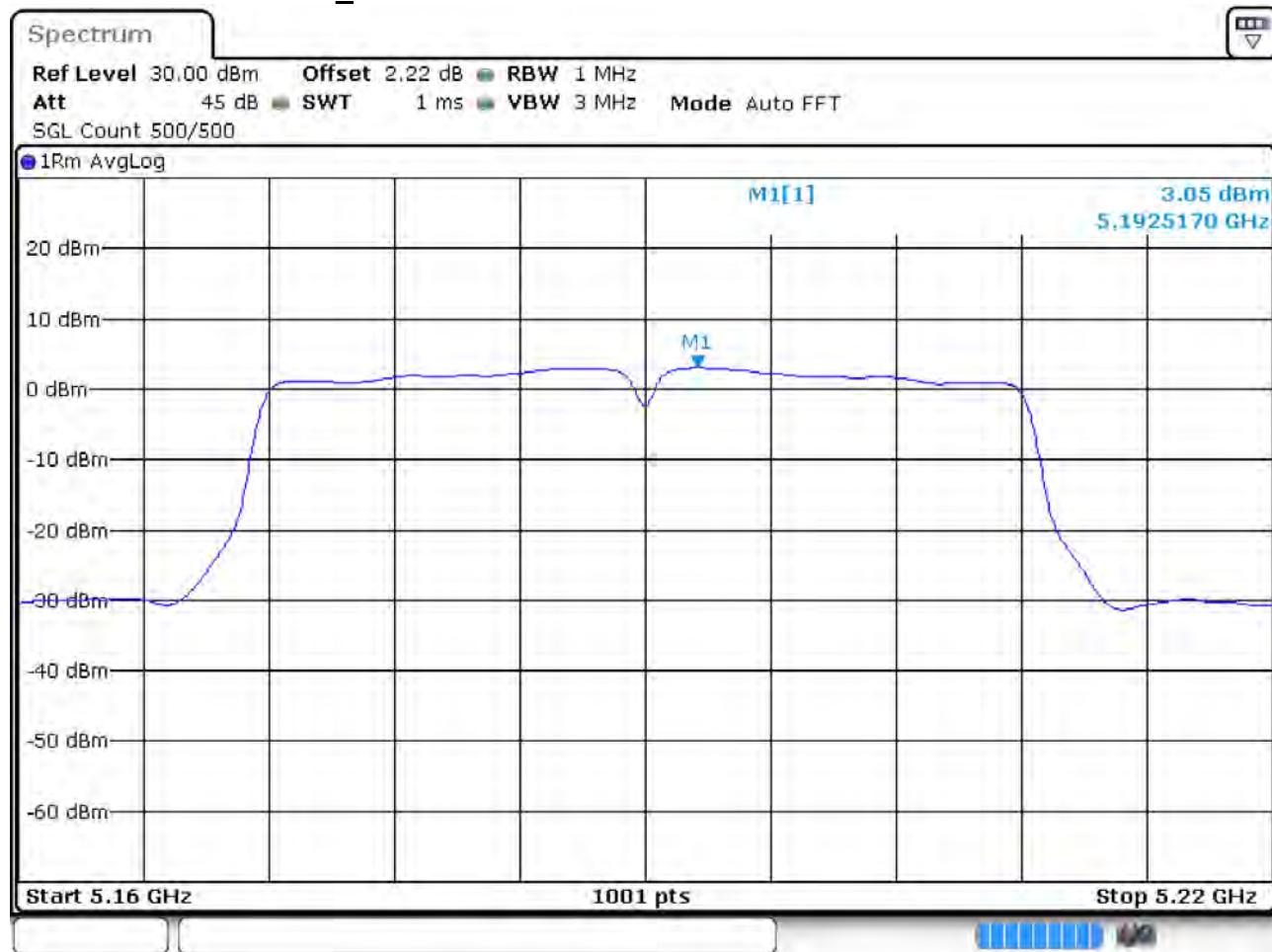
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4.8.2.86

11N40_38 ANT 2



Date: 4 JUN 2020 06:43:28



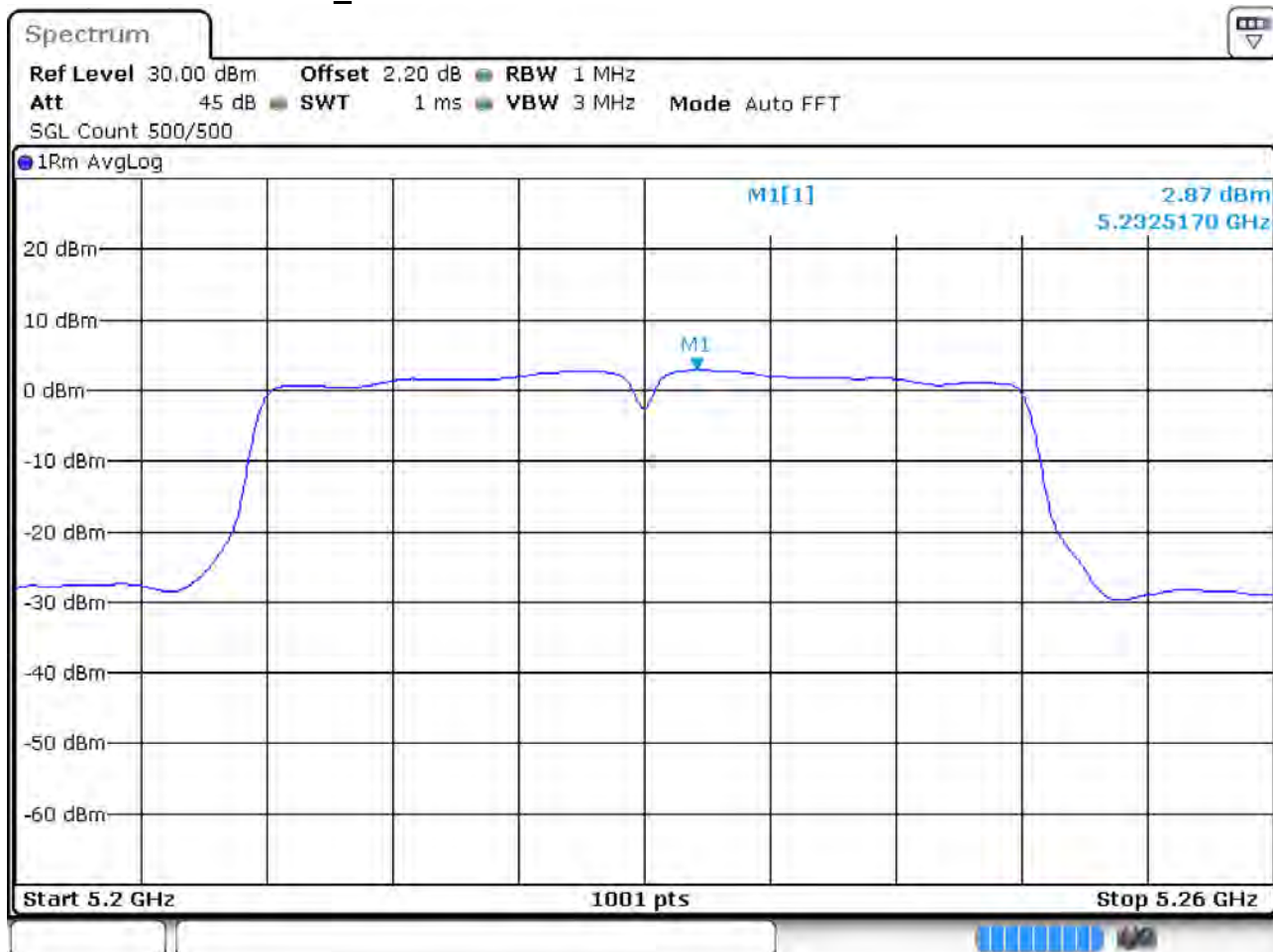
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4.8.2.87

11N40_46 ANT 1



Date: 5 JUN 2020 02:52:13



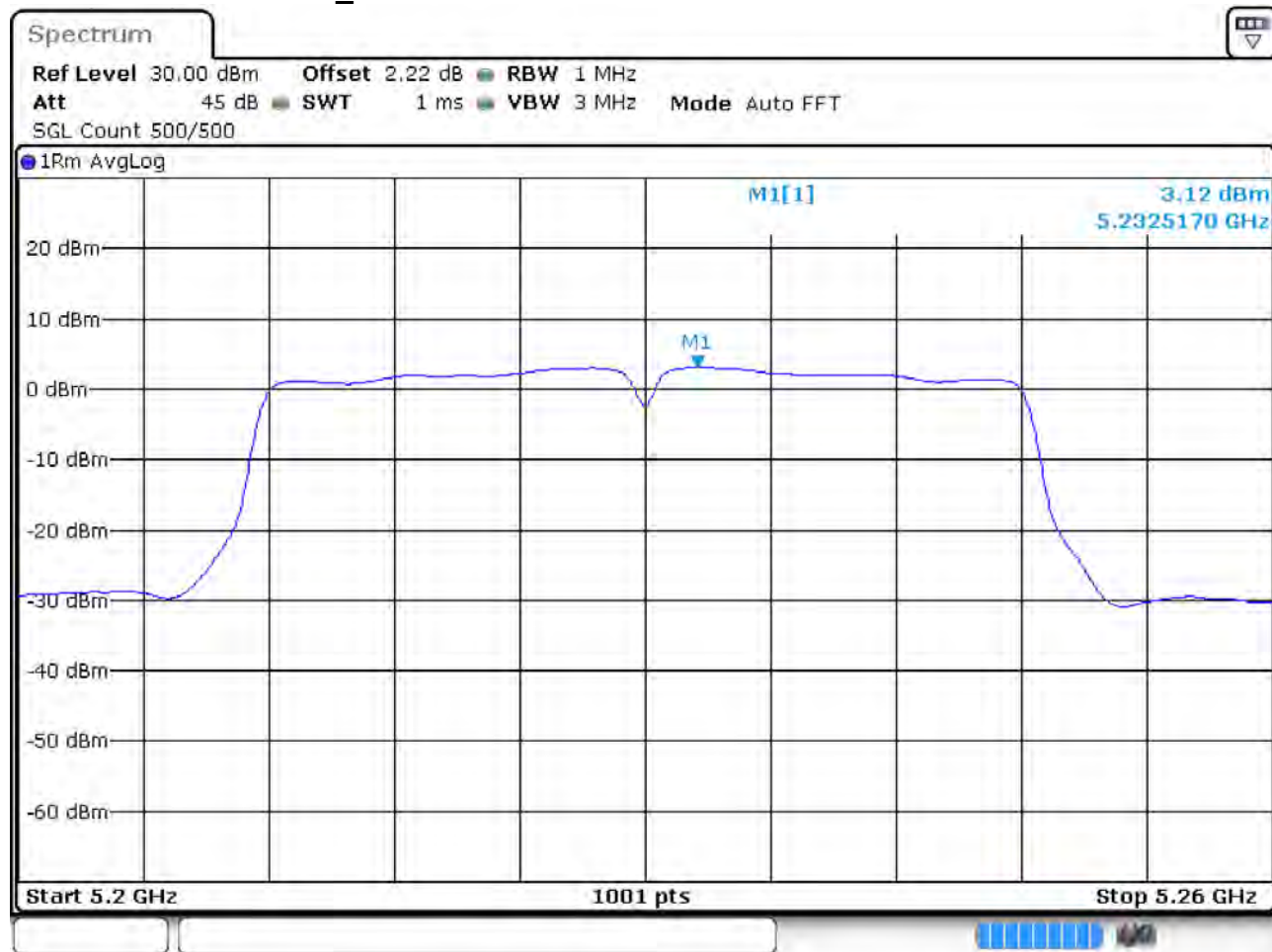
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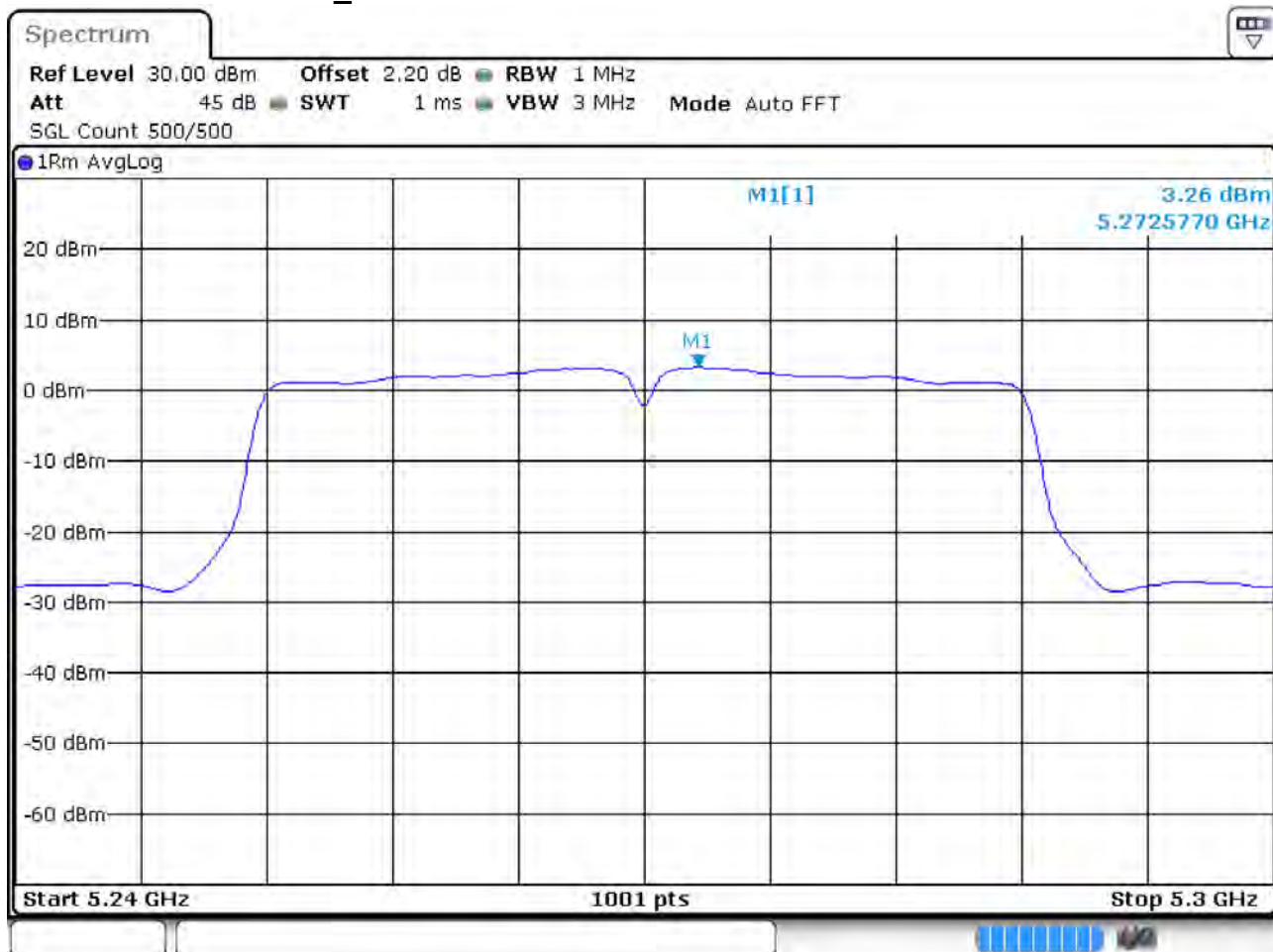
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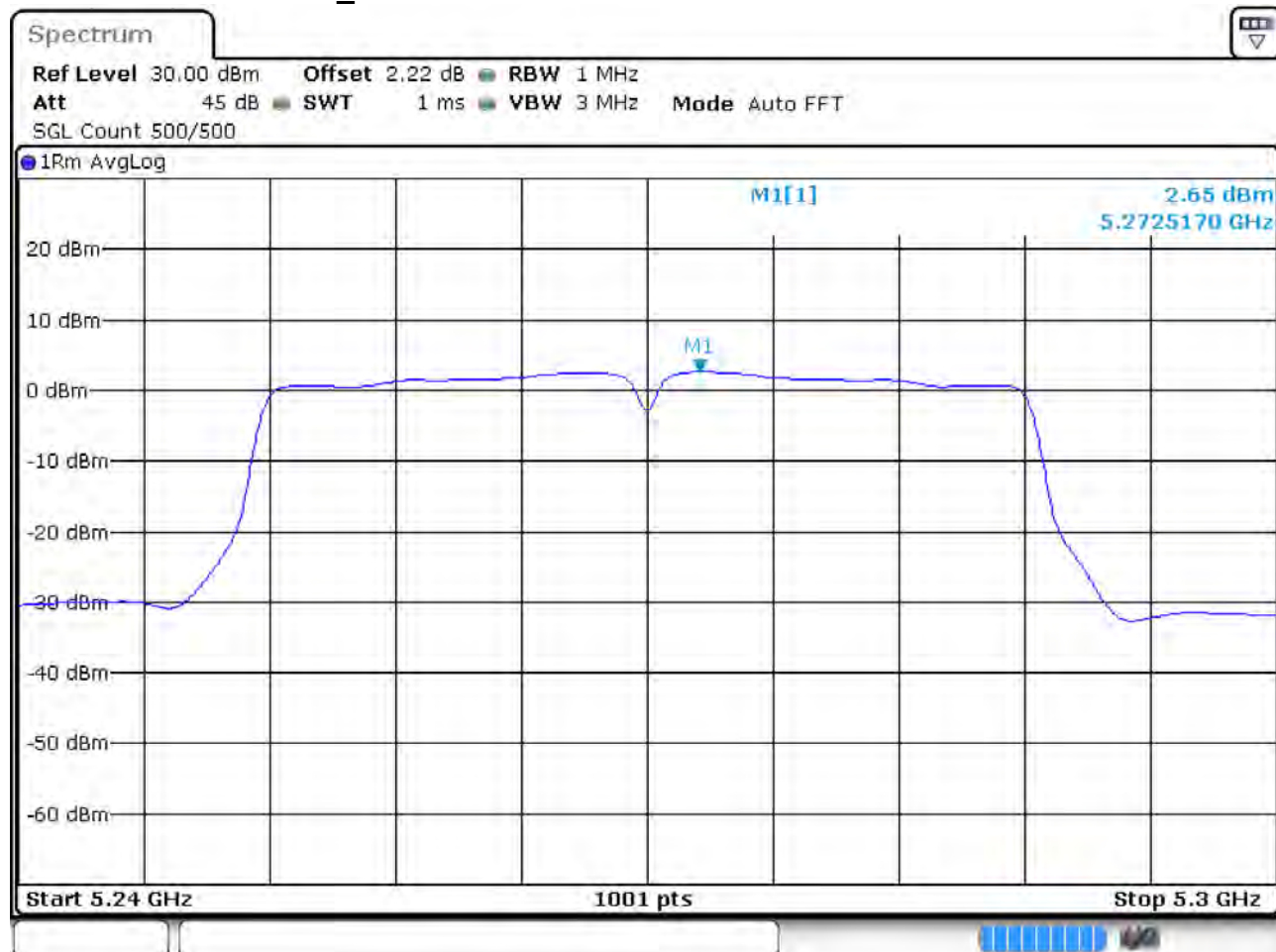
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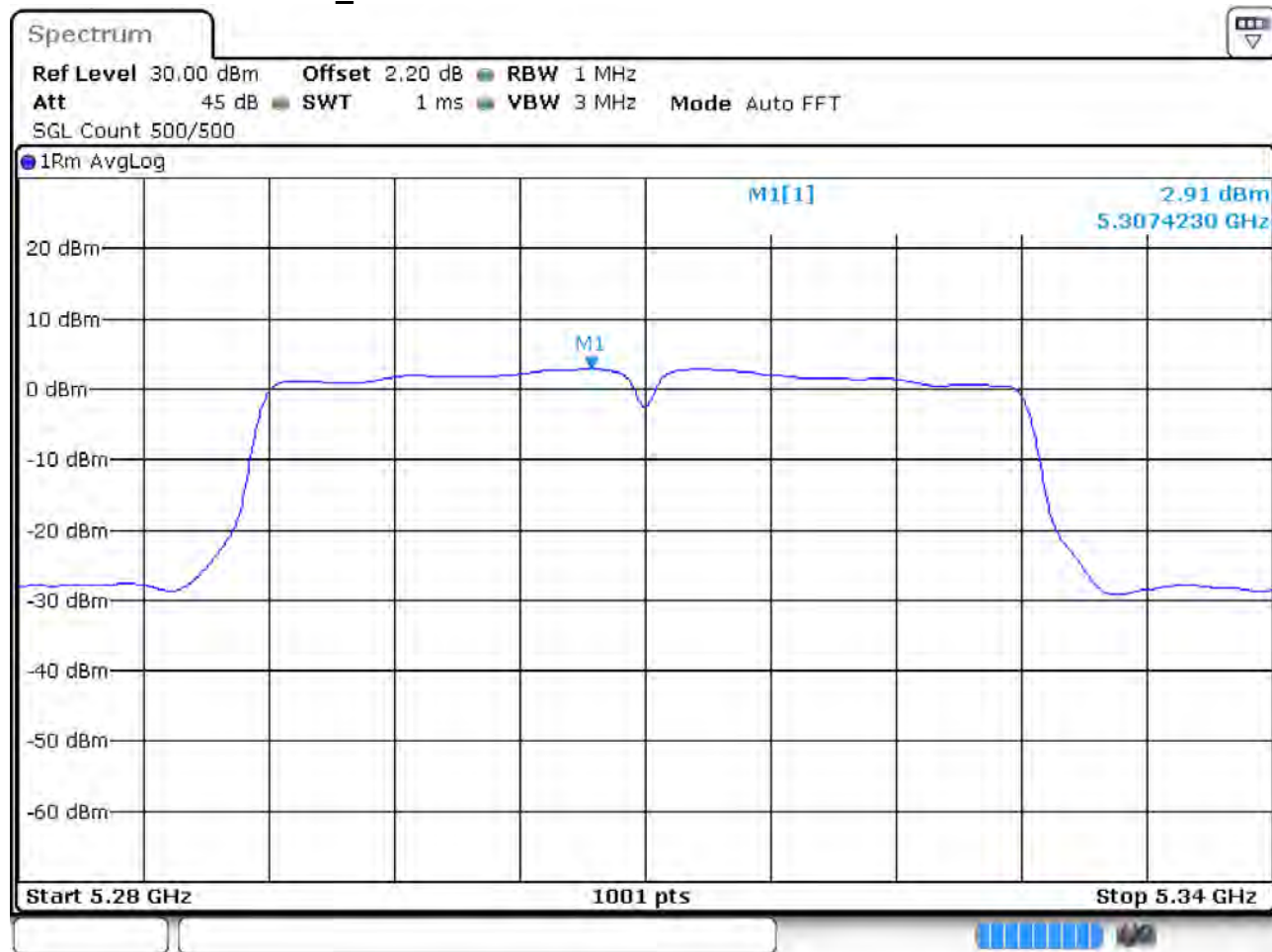
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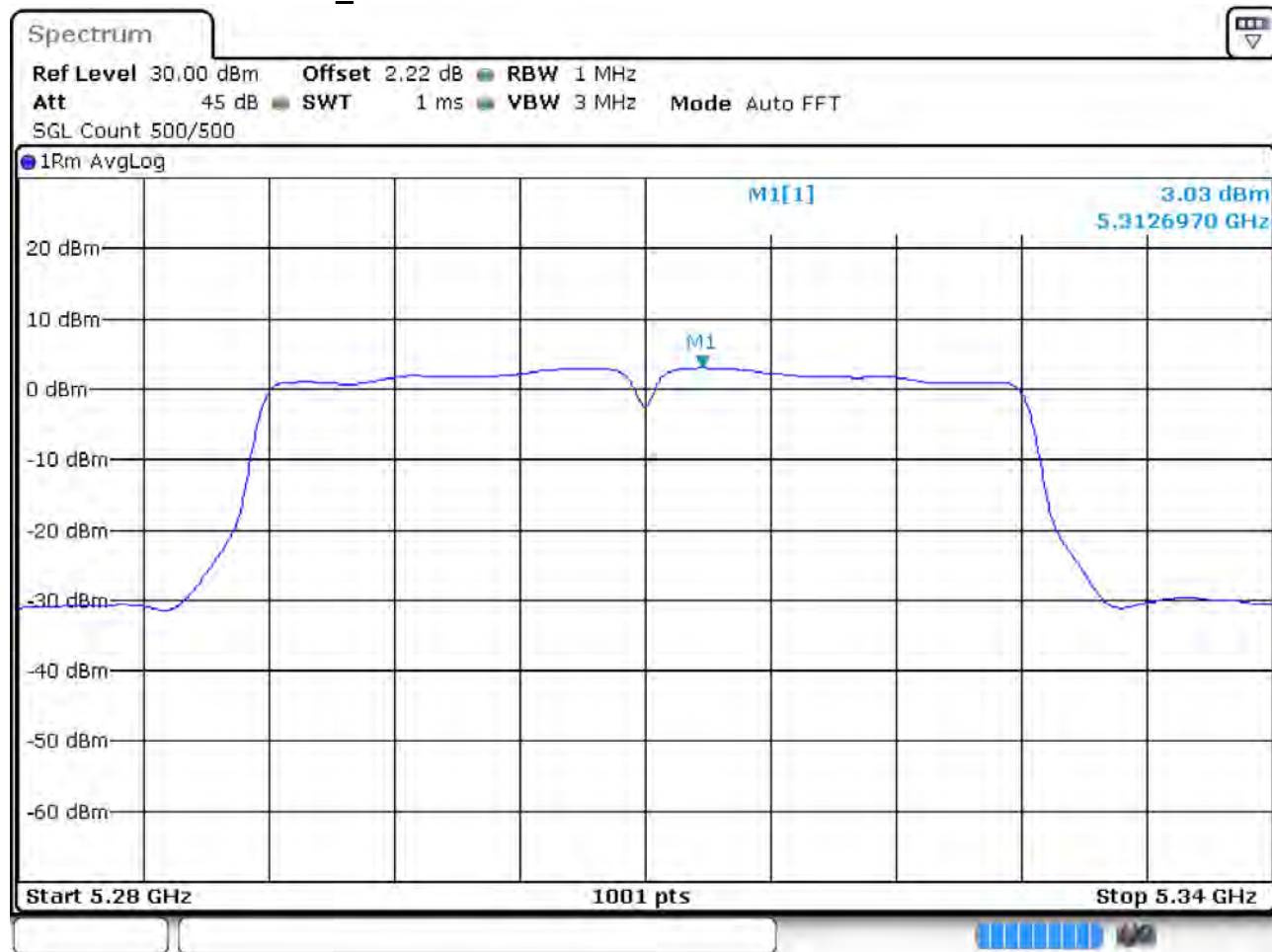
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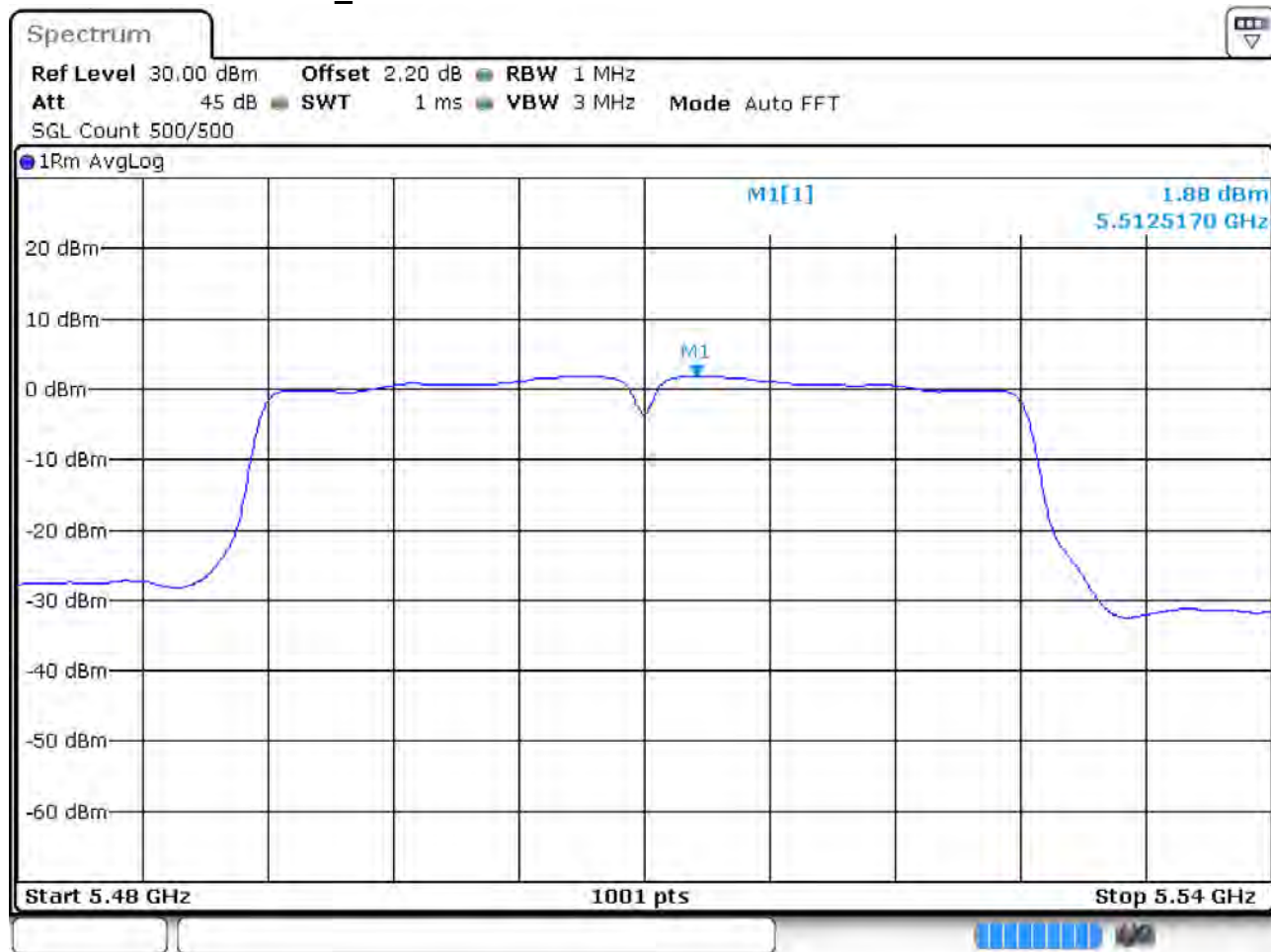


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