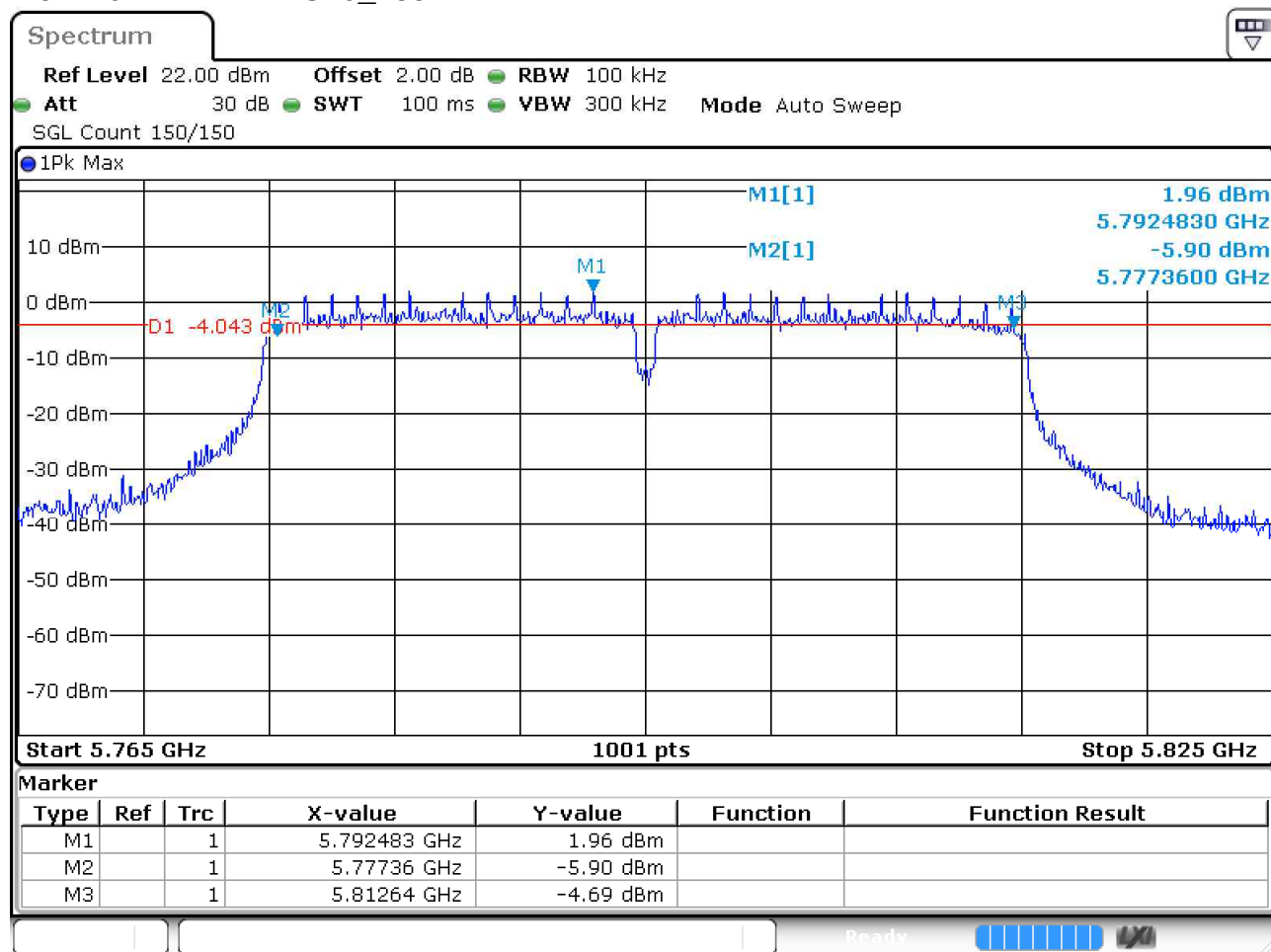
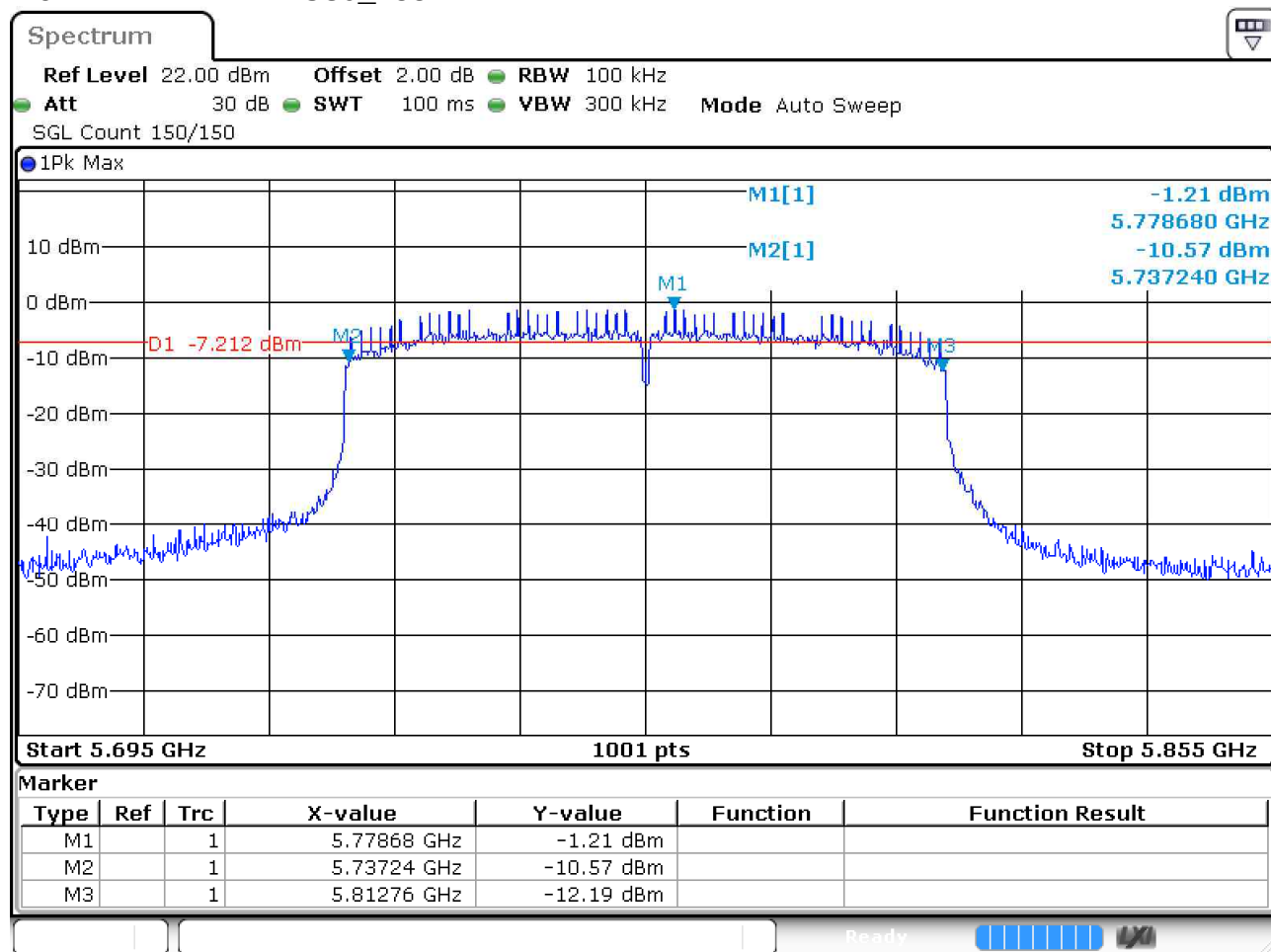


4.6.2.10 11AC40_159 ANT 1



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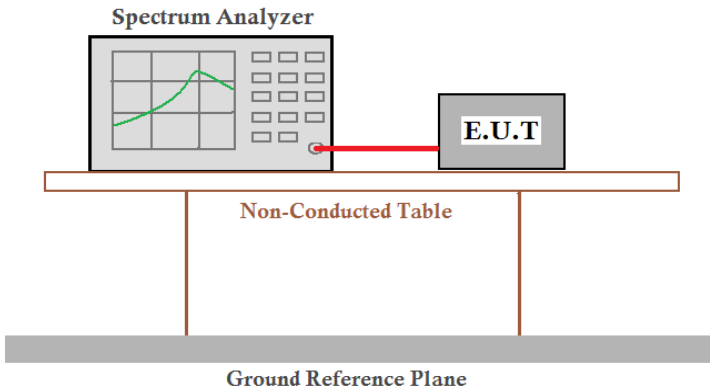
4.6.2.11 11AC80_155 ANT 1



Date: 7.JUL.2020 11:36:15



4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	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
	5725-5850MHz	At least 500kHz
Test Results:	Pass	





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4.7.1 Test Results for 99% Occupied Bandwidth

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	17.3526	PASS
	44	5220	ANT 1	17.3526	PASS
	48	5240	ANT 1	17.3526	PASS
	52	5260	ANT 1	17.3526	PASS
	60	5300	ANT 1	17.4725	PASS
	64	5320	ANT 1	17.5325	PASS
	100	5500	ANT 1	17.5025	PASS
	116	5580	ANT 1	17.4725	PASS
	140	5700	ANT 1	17.3526	PASS
	144	5720	ANT 1	17.4126	PASS
	149	5745	ANT 1	17.5025	PASS
	165	5825	ANT 1	17.4126	PASS
11N20	36	5180	ANT 1	18.1918	PASS
	44	5220	ANT 1	18.1618	PASS
	48	5240	ANT 1	18.1918	PASS
	52	5260	ANT 1	18.1918	PASS
	60	5300	ANT 1	18.1918	PASS
	64	5320	ANT 1	18.1918	PASS
	100	5500	ANT 1	18.1918	PASS
	140	5700	ANT 1	18.1918	PASS
	144	5720	ANT 1	18.1918	PASS
	149	5745	ANT 1	18.1918	PASS
	165	5825	ANT 1	18.2517	PASS
11N40	38	5190	ANT 1	36.3836	PASS
	46	5230	ANT 1	36.4436	PASS
	54	5270	ANT 1	36.4436	PASS
	62	5310	ANT 1	36.3836	PASS
	102	5510	ANT 1	36.3237	PASS
	110	5550	ANT 1	36.3237	PASS
	134	5670	ANT 1	36.3836	PASS
	151	5755	ANT 1	36.3836	PASS
	159	5795	ANT 1	36.3836	PASS
11AC20	36	5180	ANT 1	18.1019	PASS
	44	5220	ANT 1	18.1319	PASS
	48	5240	ANT 1	18.1319	PASS



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	52	5260	ANT 1	18.1319	PASS
	60	5300	ANT 1	18.1019	PASS
	64	5320	ANT 1	18.1019	PASS
	100	5500	ANT 1	18.1019	PASS
	116	5580	ANT 1	18.1019	PASS
	149	5745	ANT 1	18.1019	PASS
	165	5825	ANT 1	18.1618	PASS
11AC40	38	5190	ANT 1	36.3836	PASS
	46	5230	ANT 1	36.3836	PASS
	54	5270	ANT 1	36.3836	PASS
	62	5310	ANT 1	36.4436	PASS
	102	5510	ANT 1	36.3836	PASS
	110	5550	ANT 1	36.4436	PASS
	134	5670	ANT 1	36.3836	PASS
	151	5755	ANT 1	36.4436	PASS
	159	5795	ANT 1	36.4436	PASS
11AC80	42	5210	ANT 1	74.6853	PASS
	58	5290	ANT 1	74.8052	PASS
	106	5530	ANT 1	74.6853	PASS
	122	5610	ANT 1	74.6853	PASS
	138	5690	ANT 1	74.8052	PASS
	155	5775	ANT 1	74.6853	PASS



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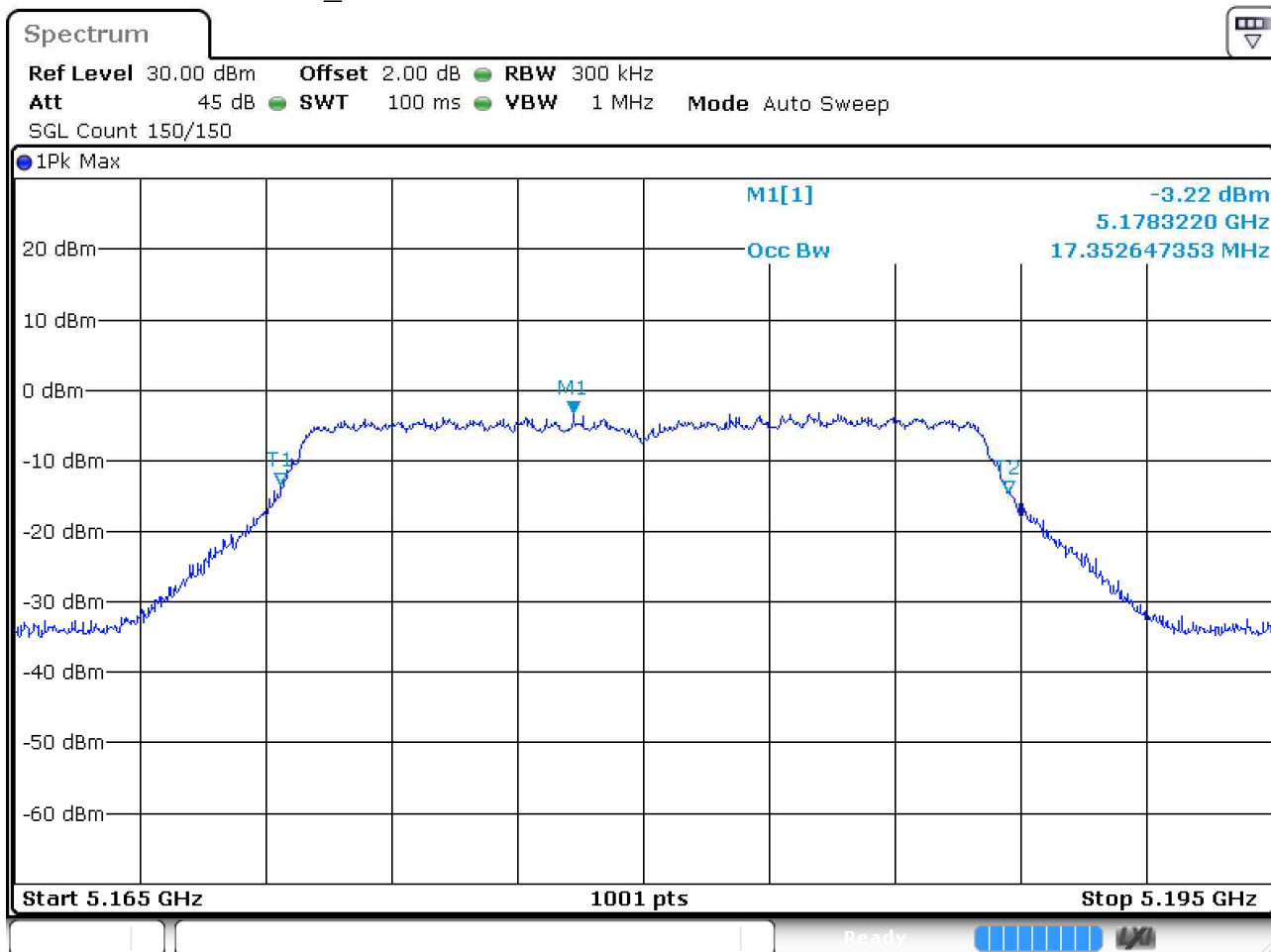
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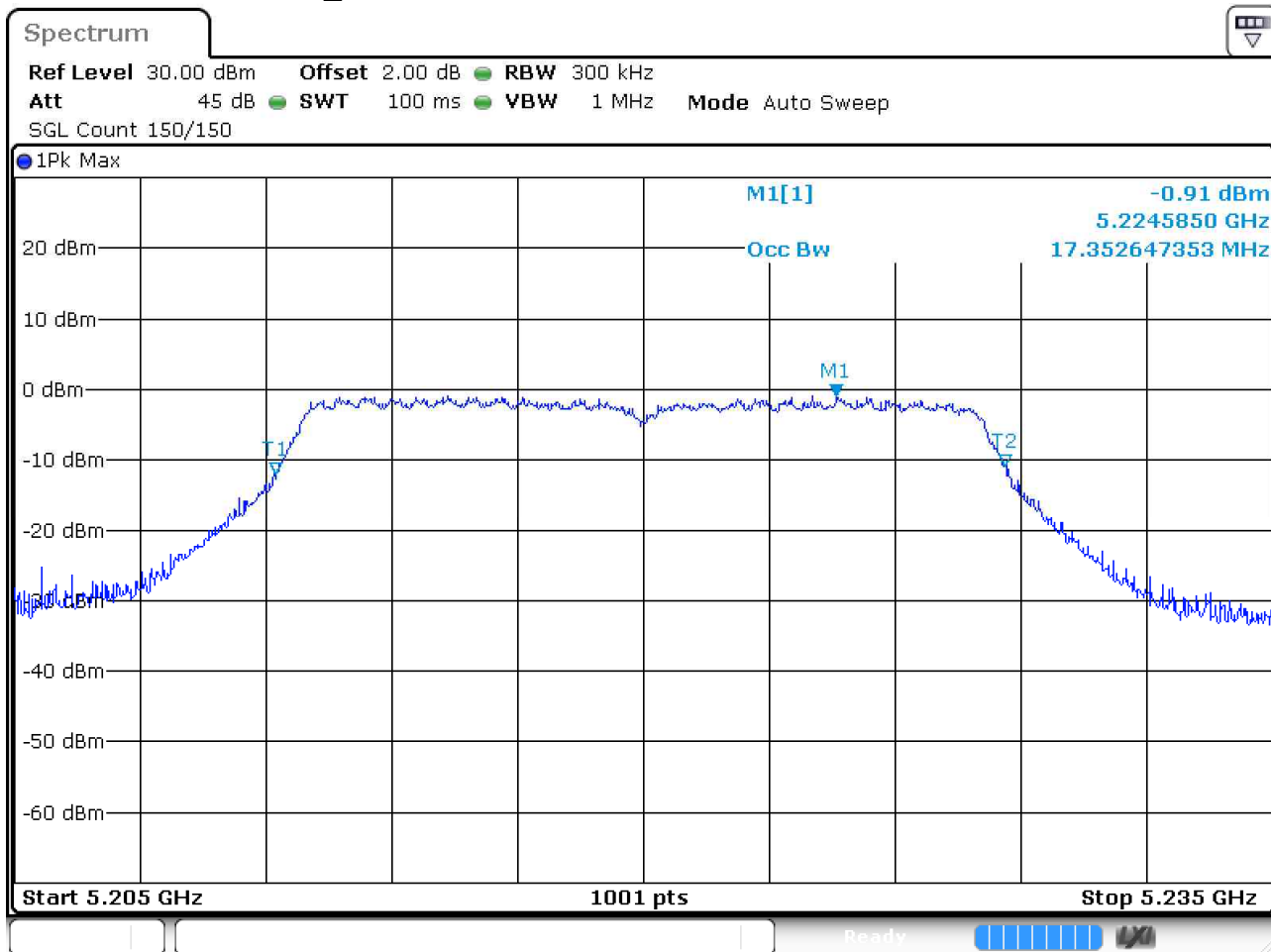
4.7.2 Plots for 99% Occupied Bandwidth

4.7.2.1 11A20_36 ANT 1



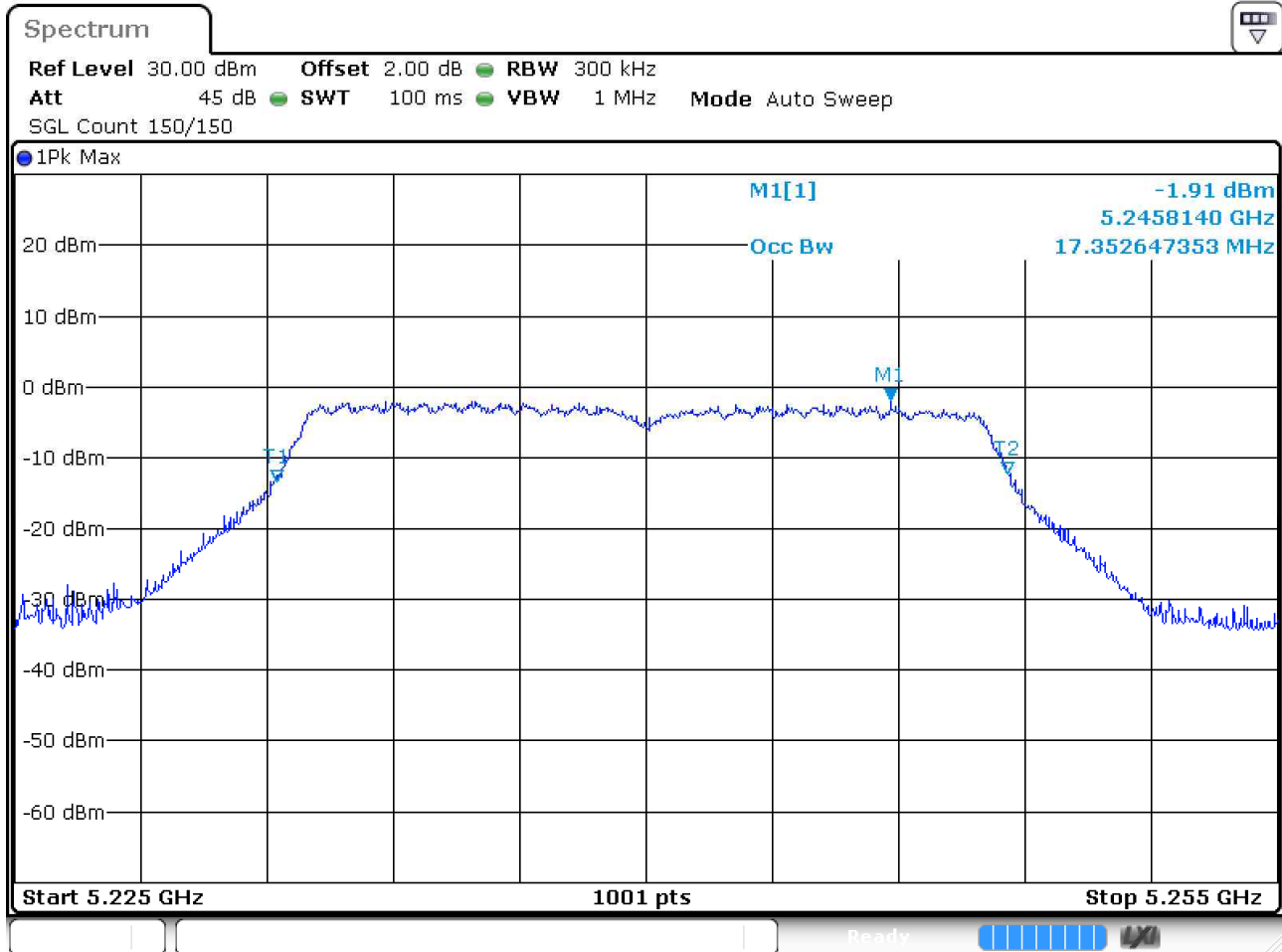
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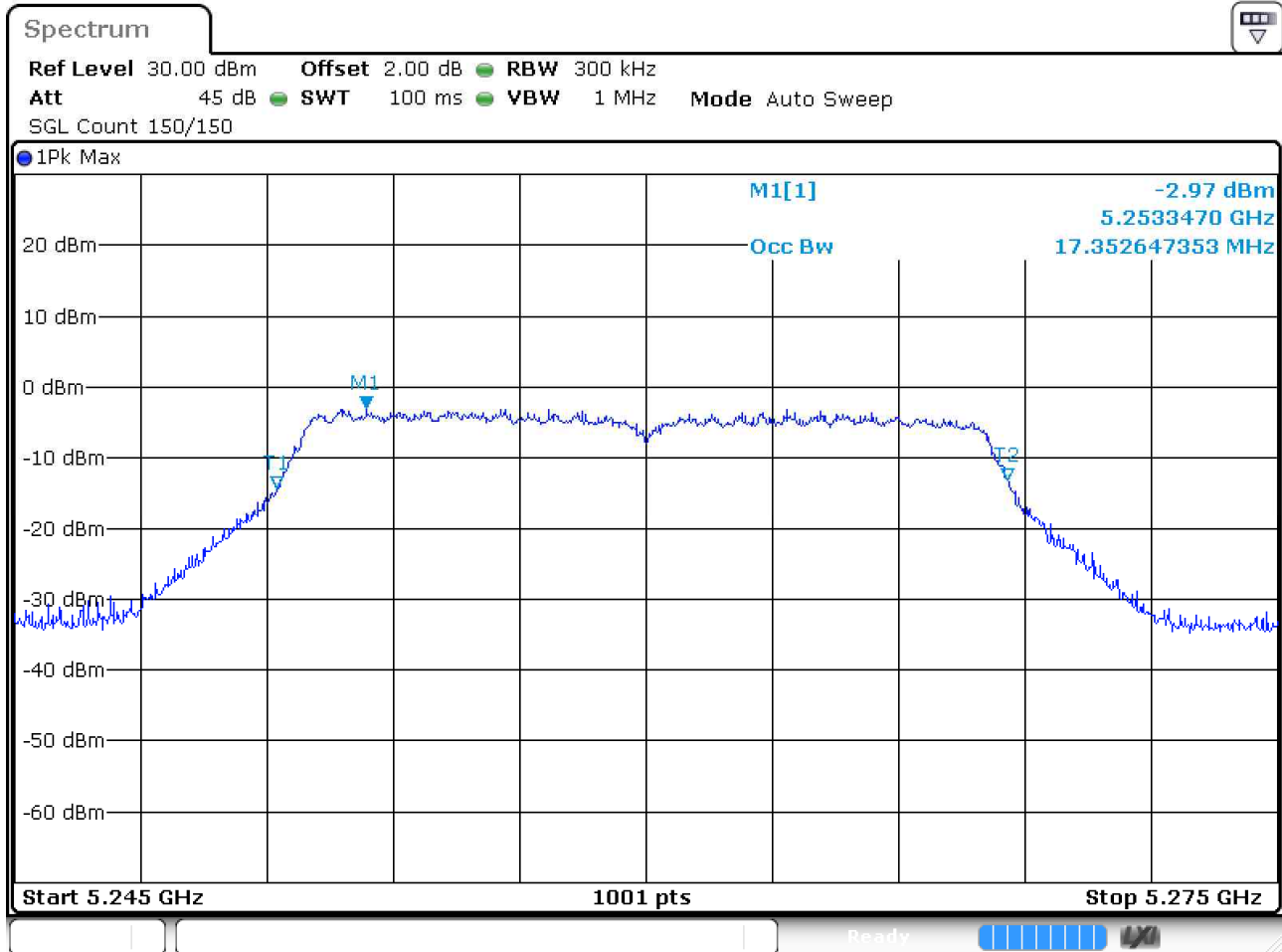
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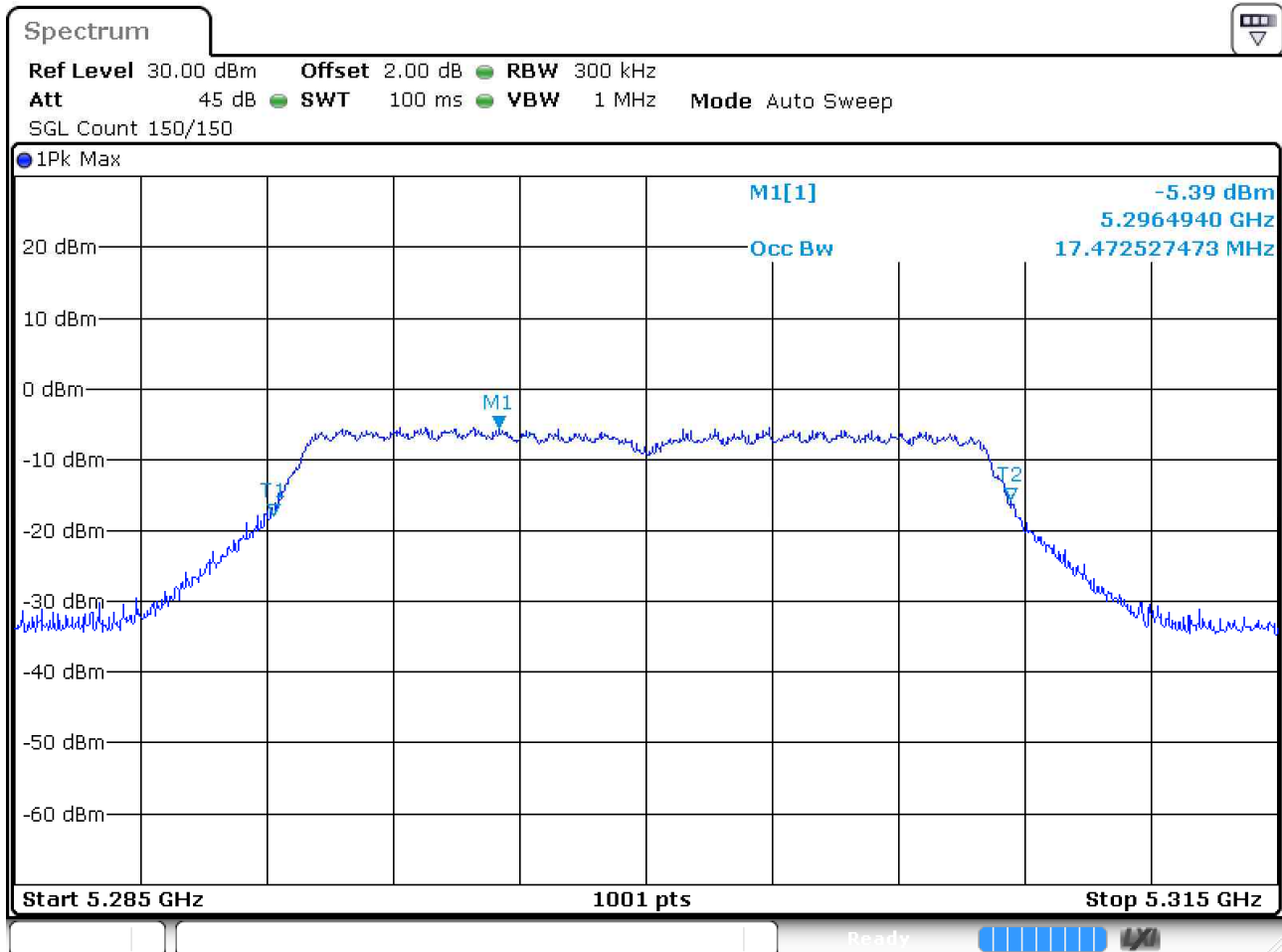
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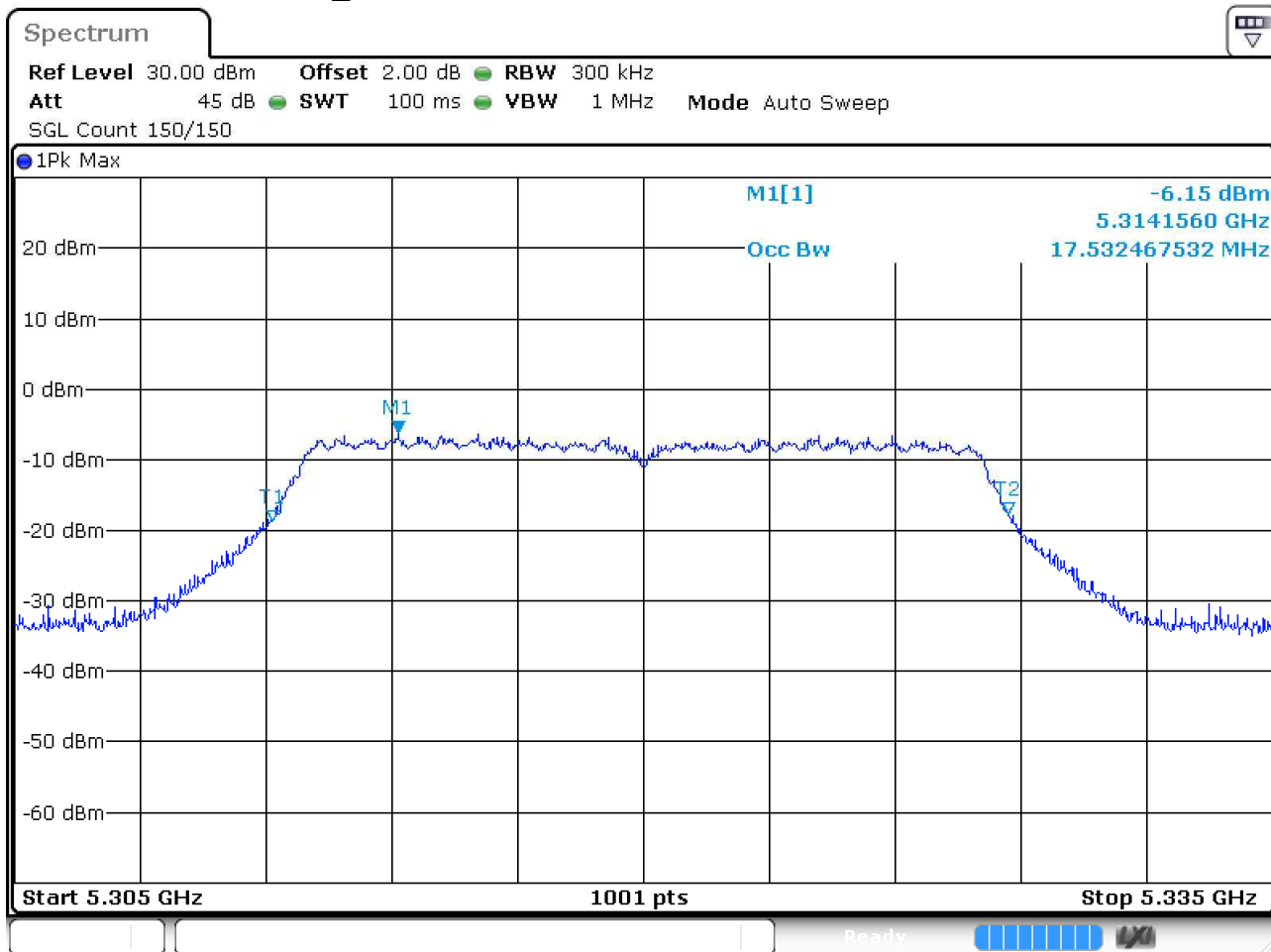
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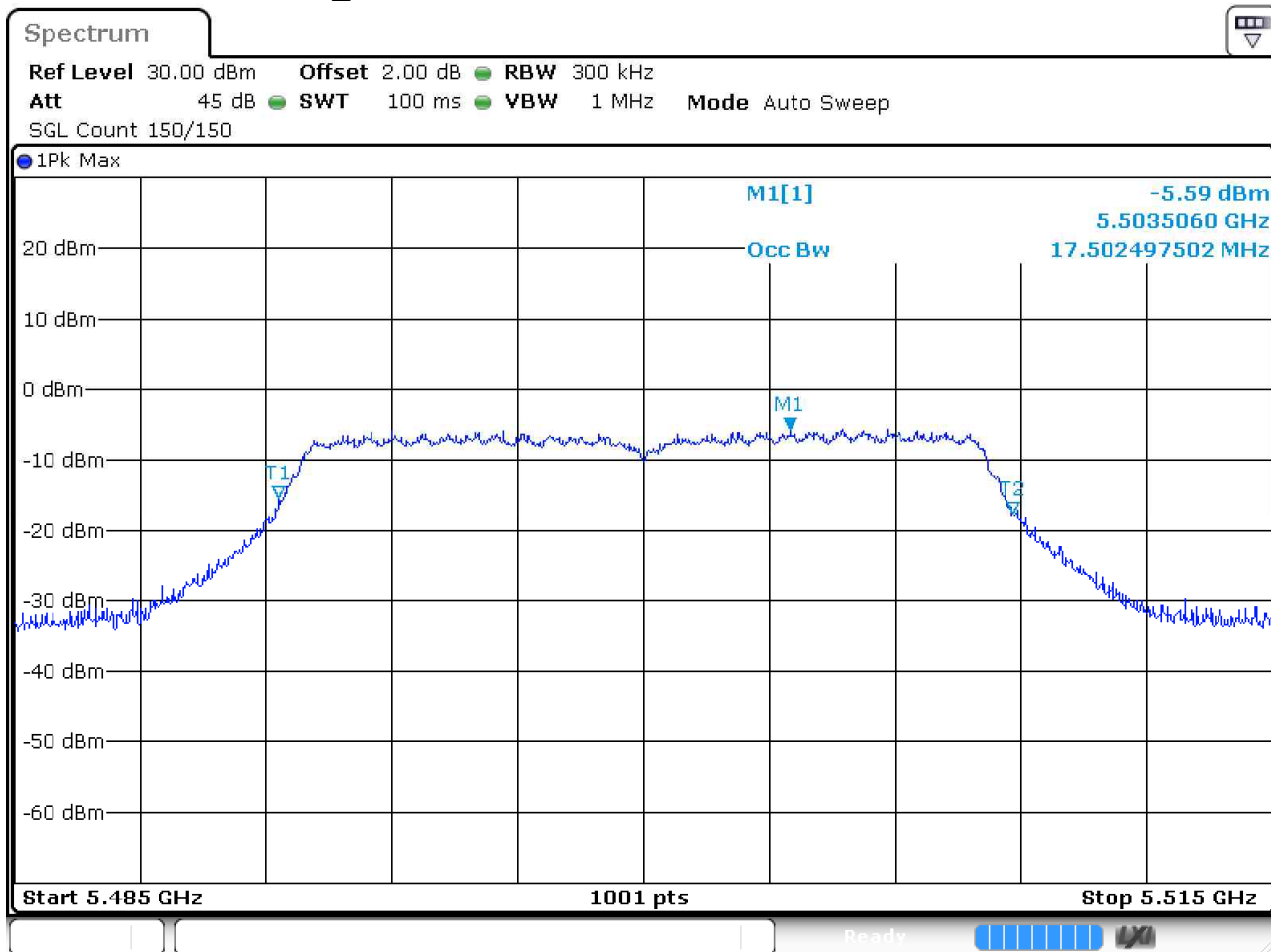
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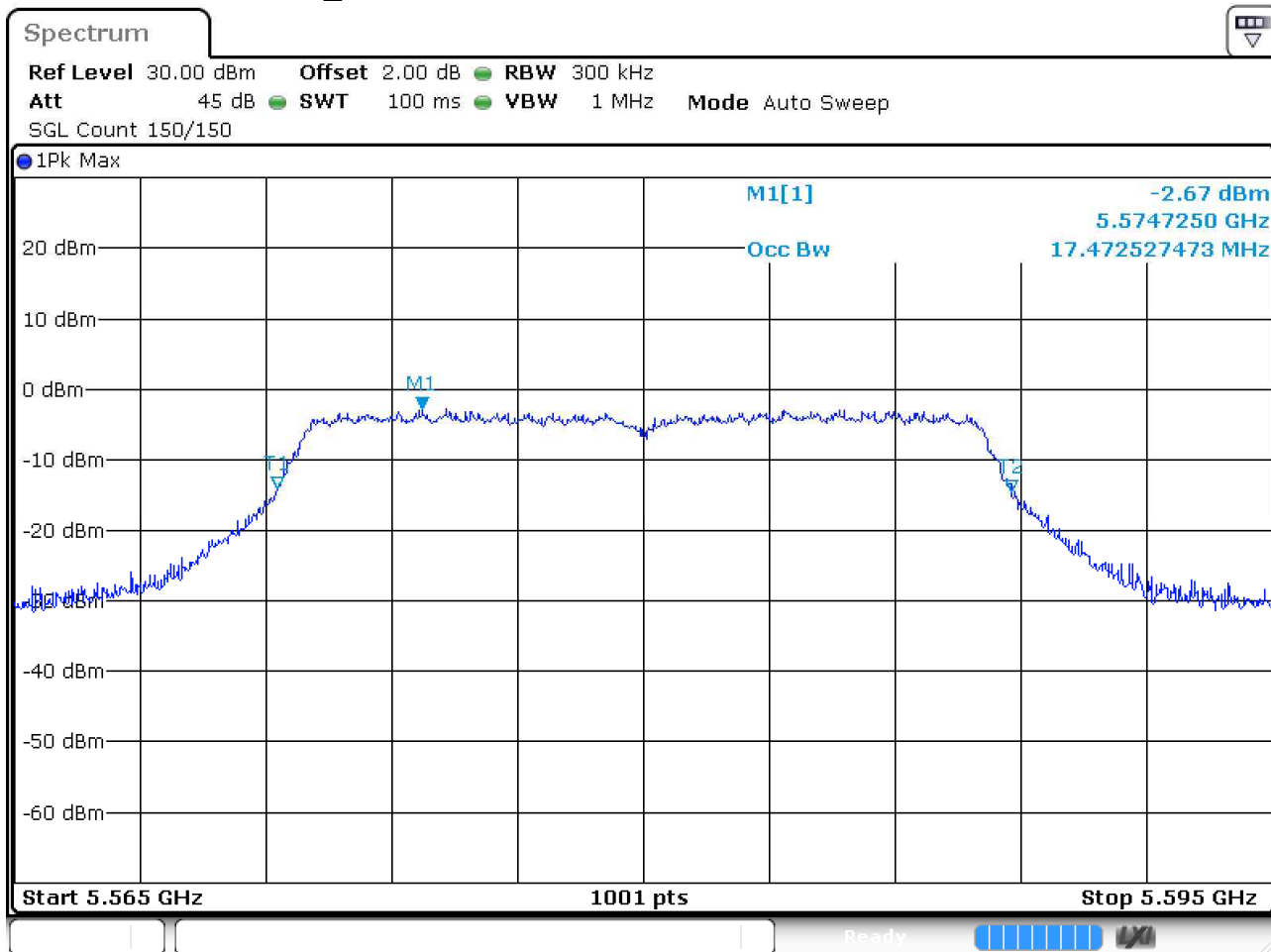
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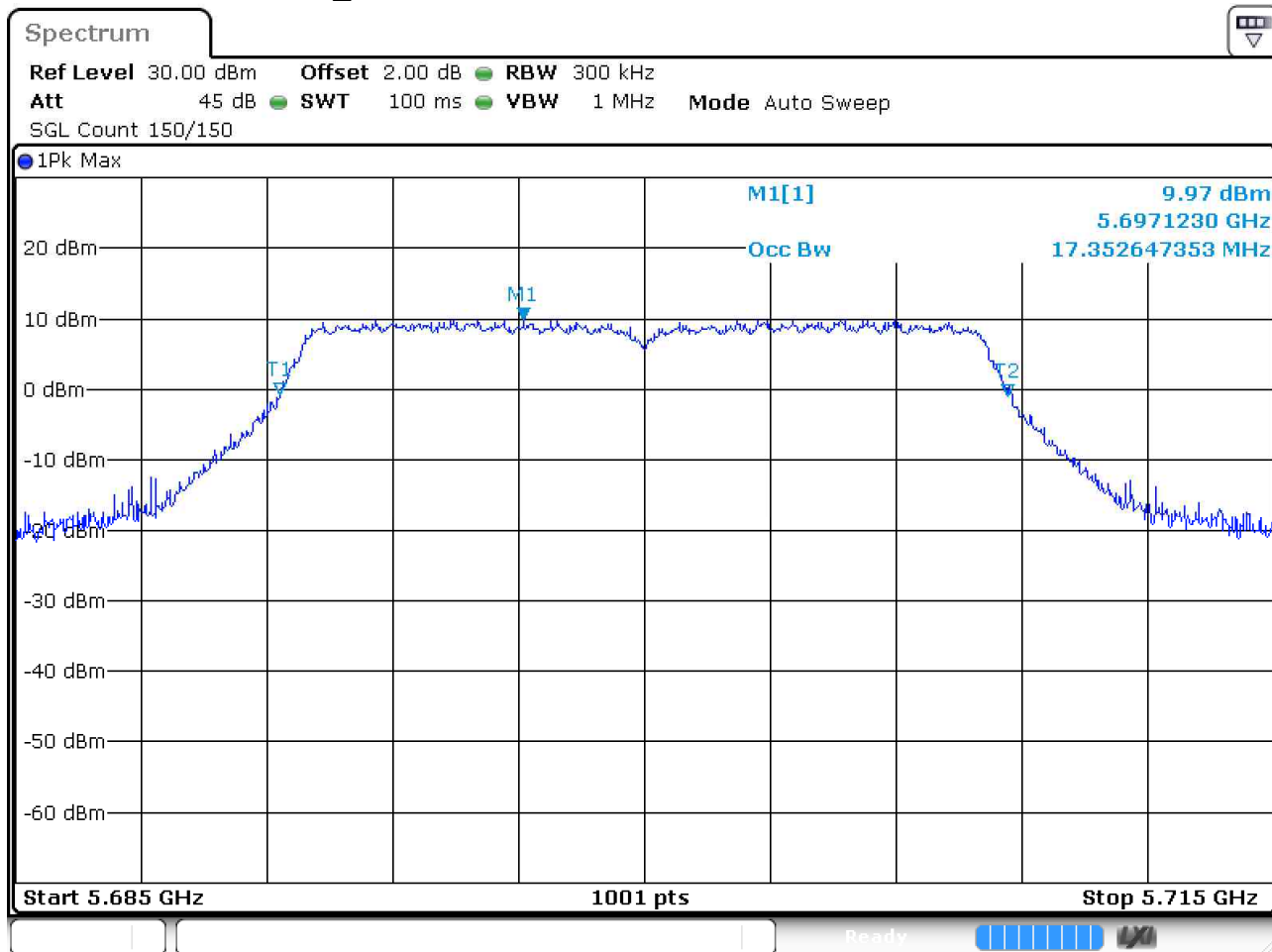
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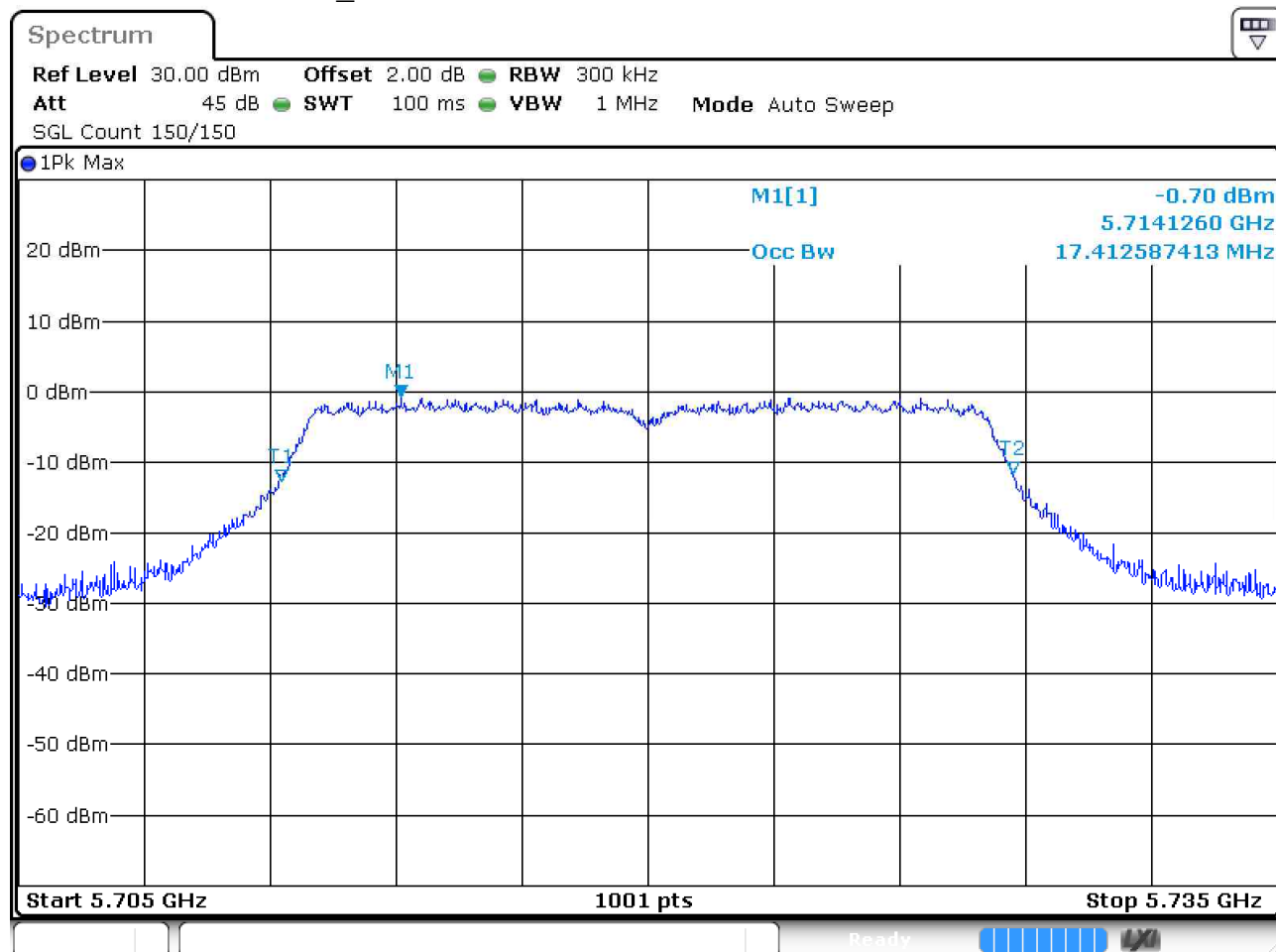
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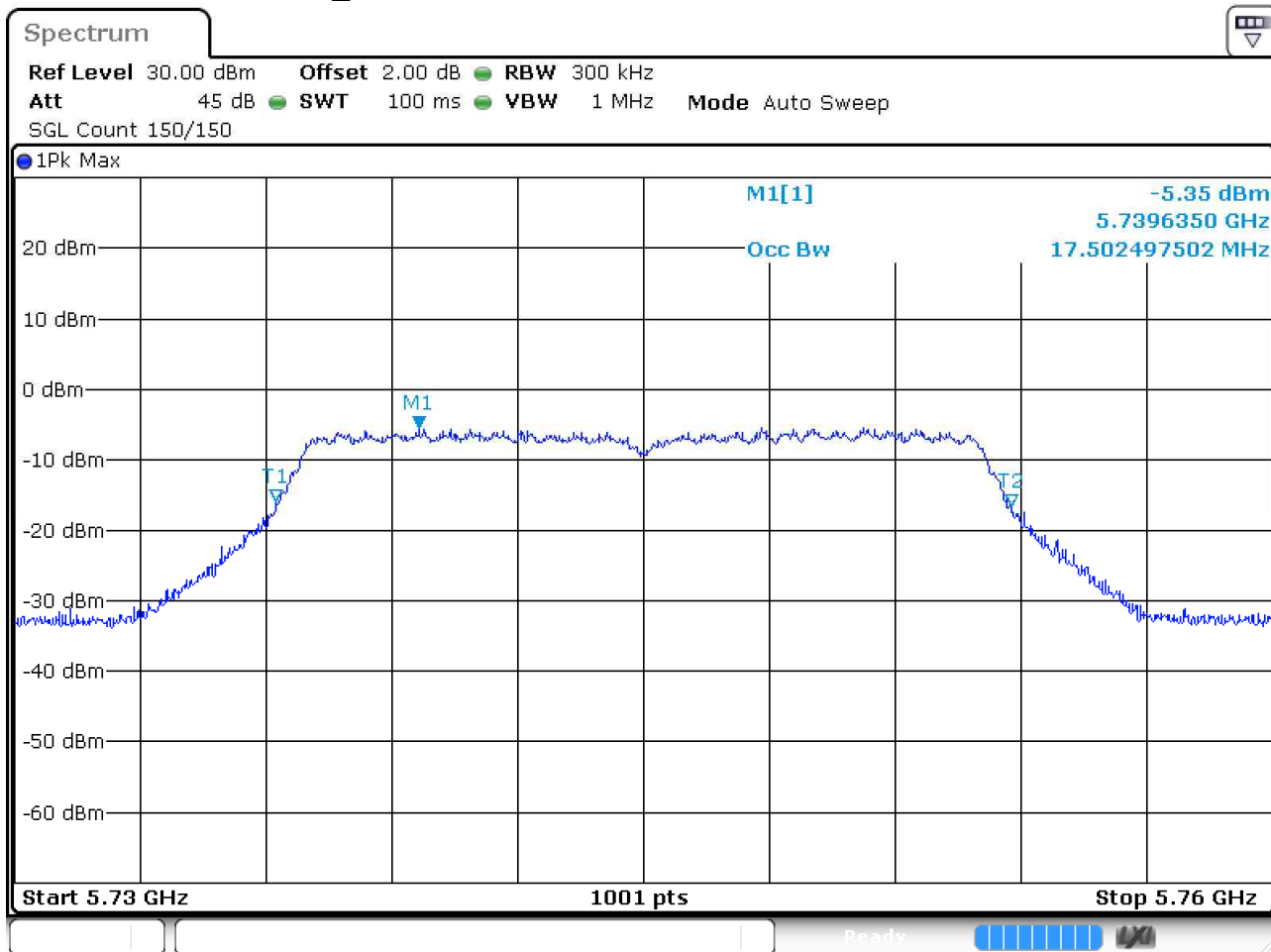


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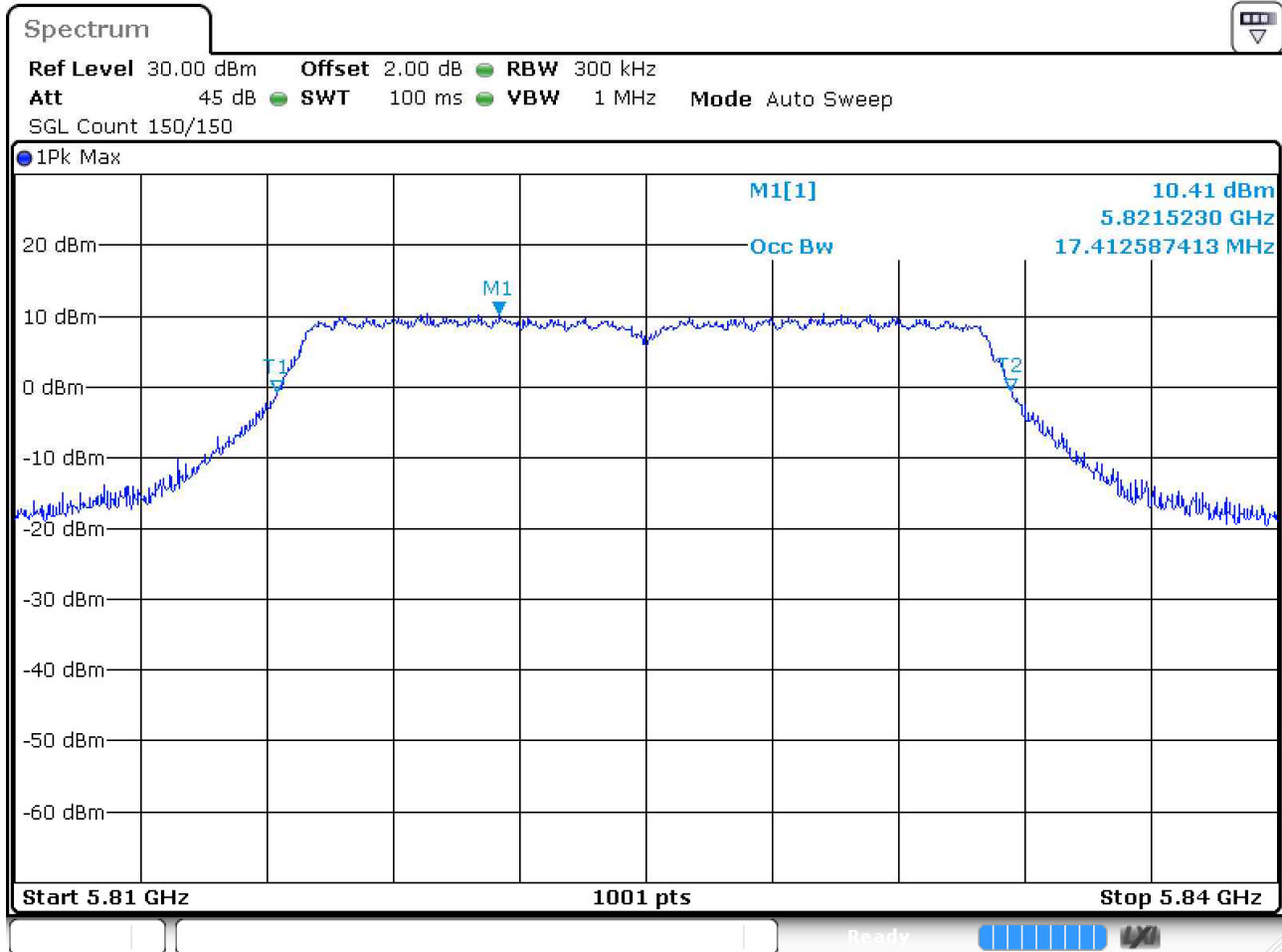
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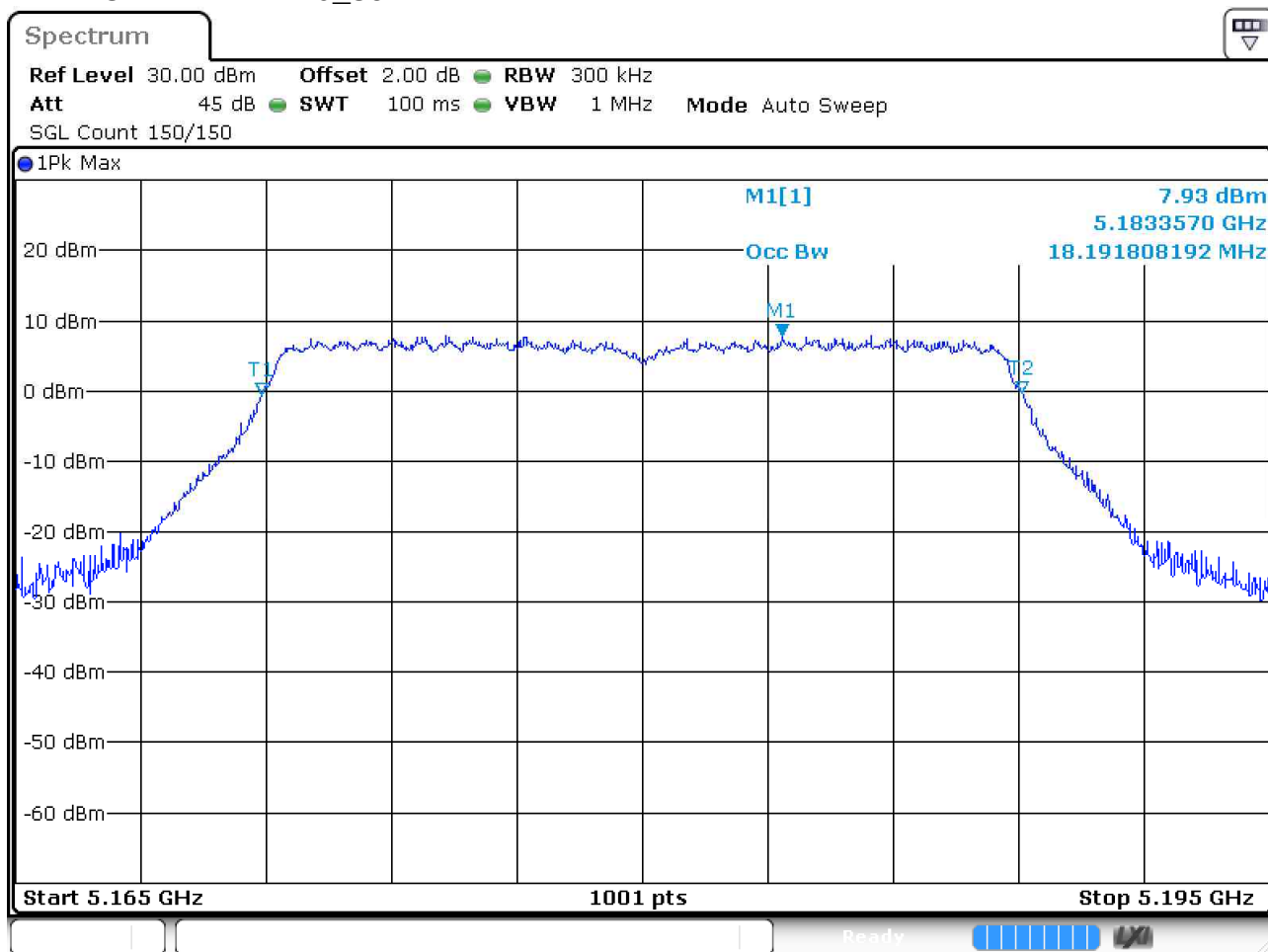
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4.7.2.13 11N20_36 ANT 1



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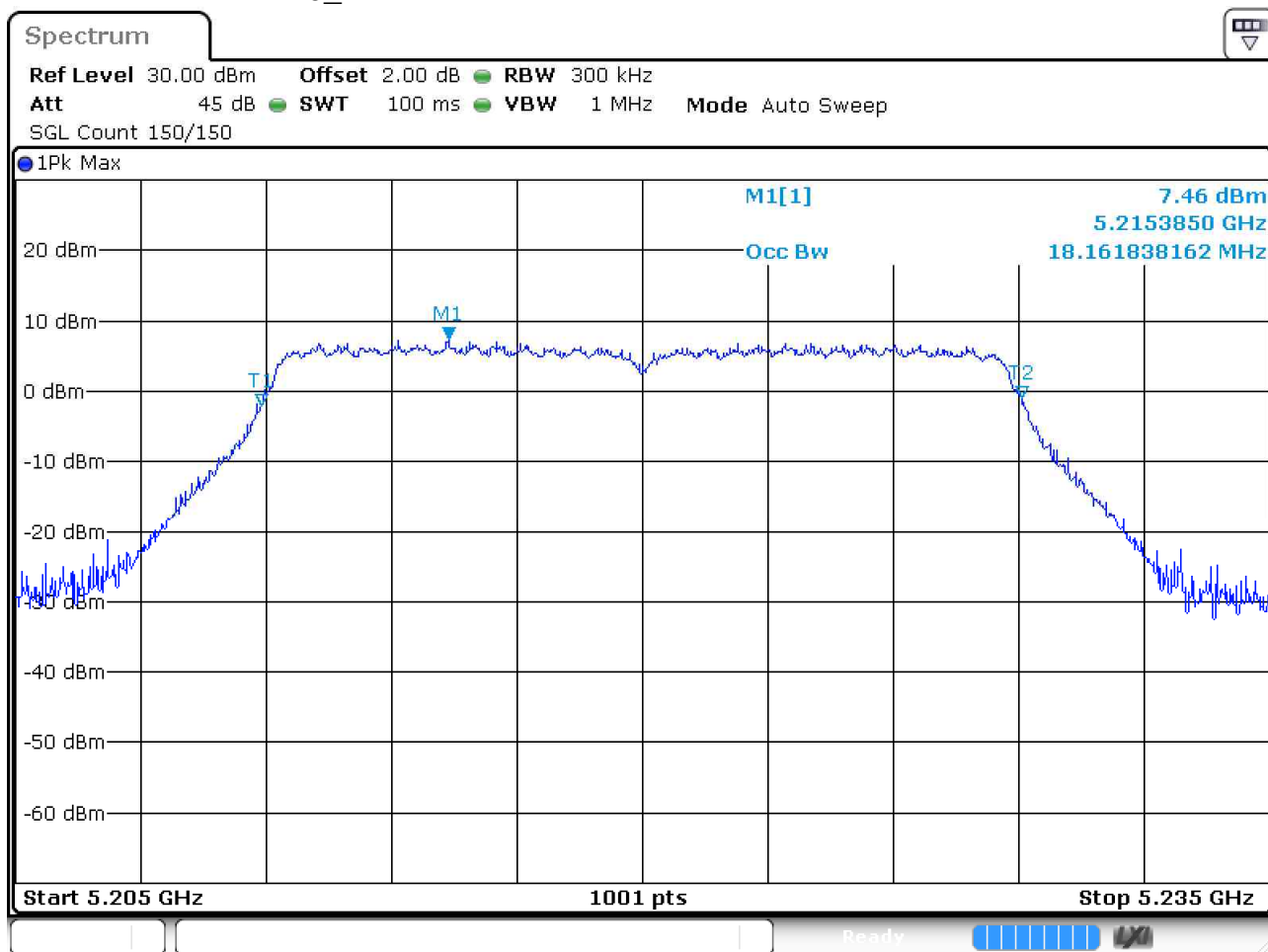
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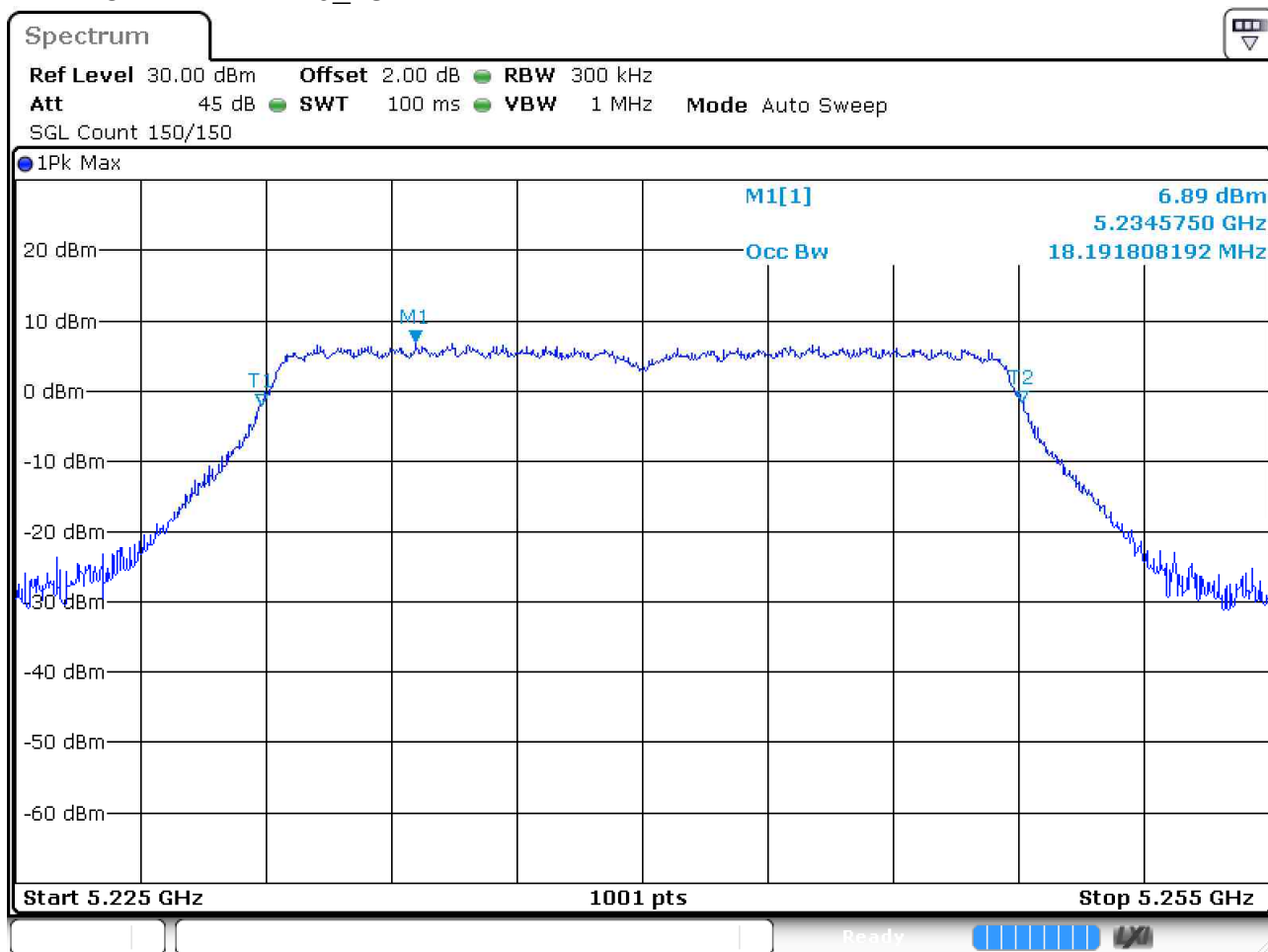
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4.7.2.14 11N20_44 ANT 1



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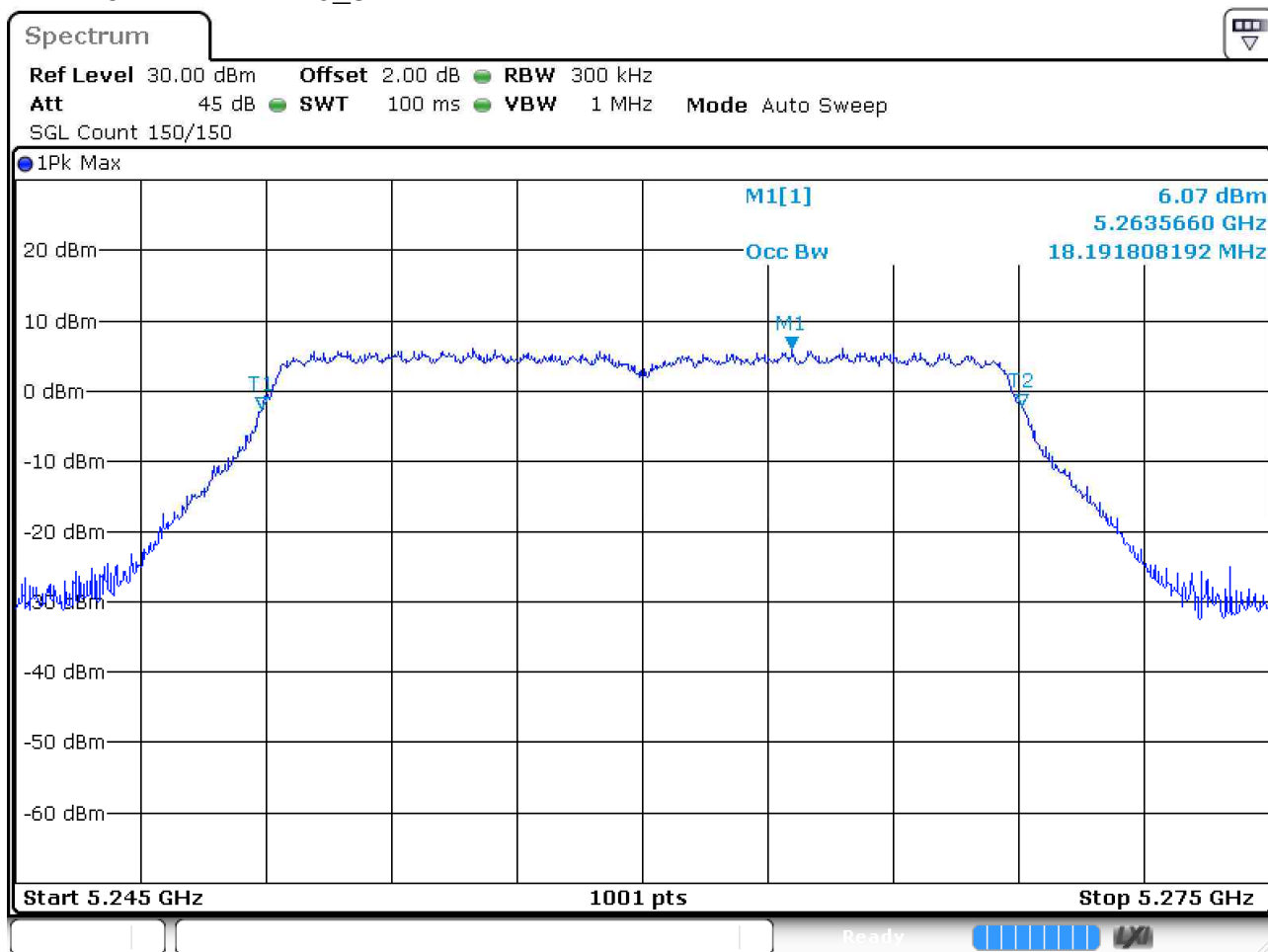
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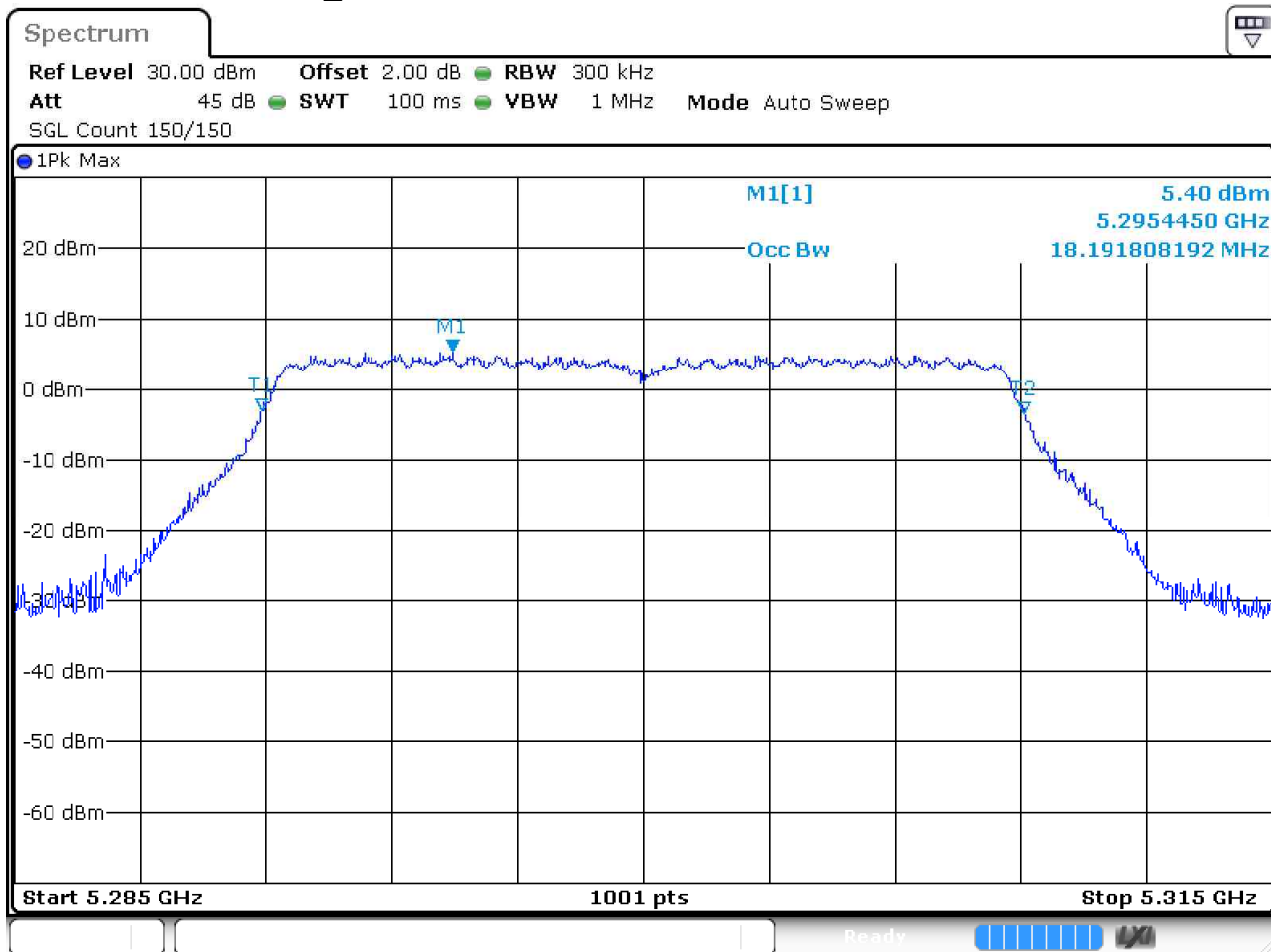
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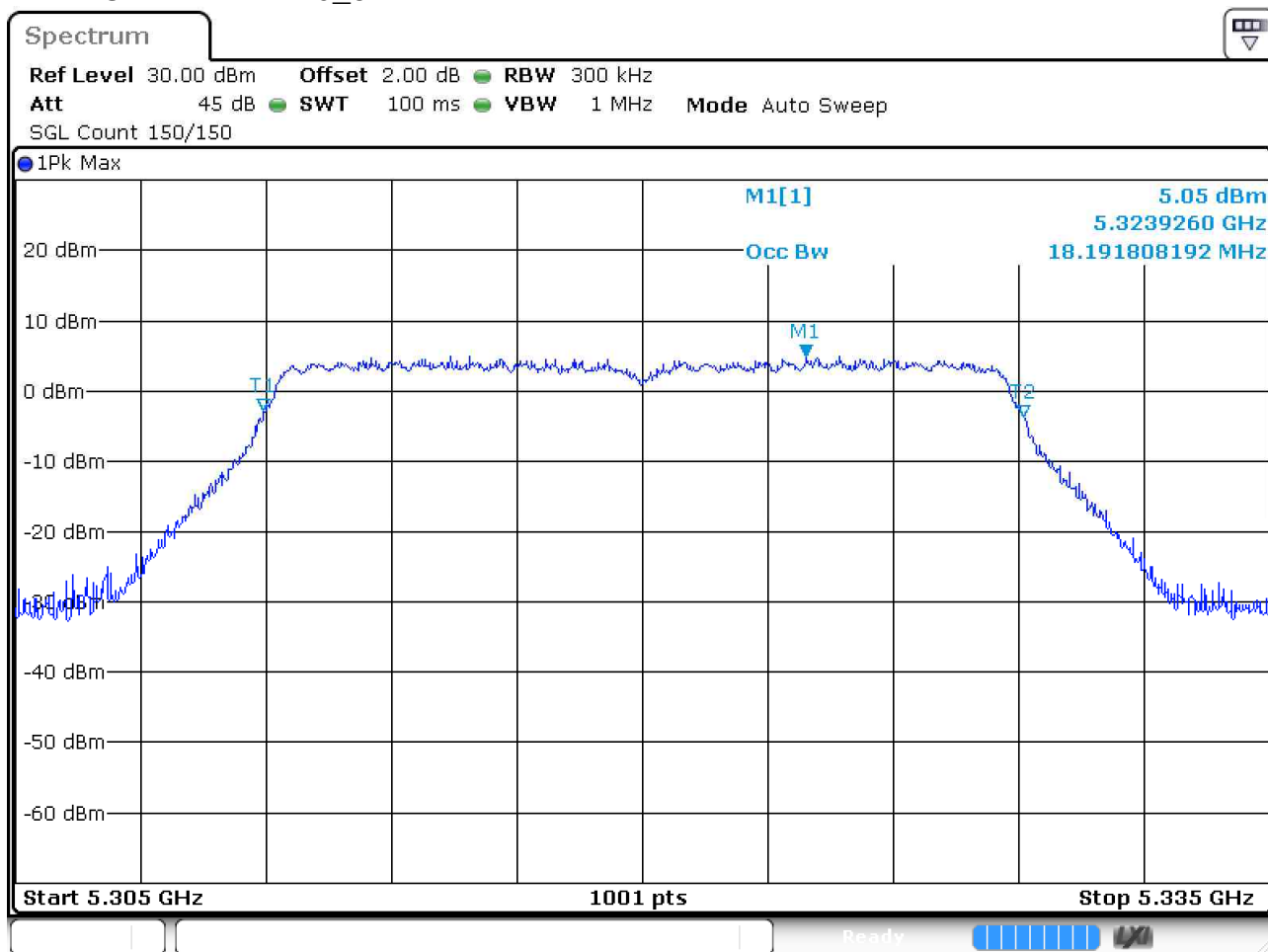
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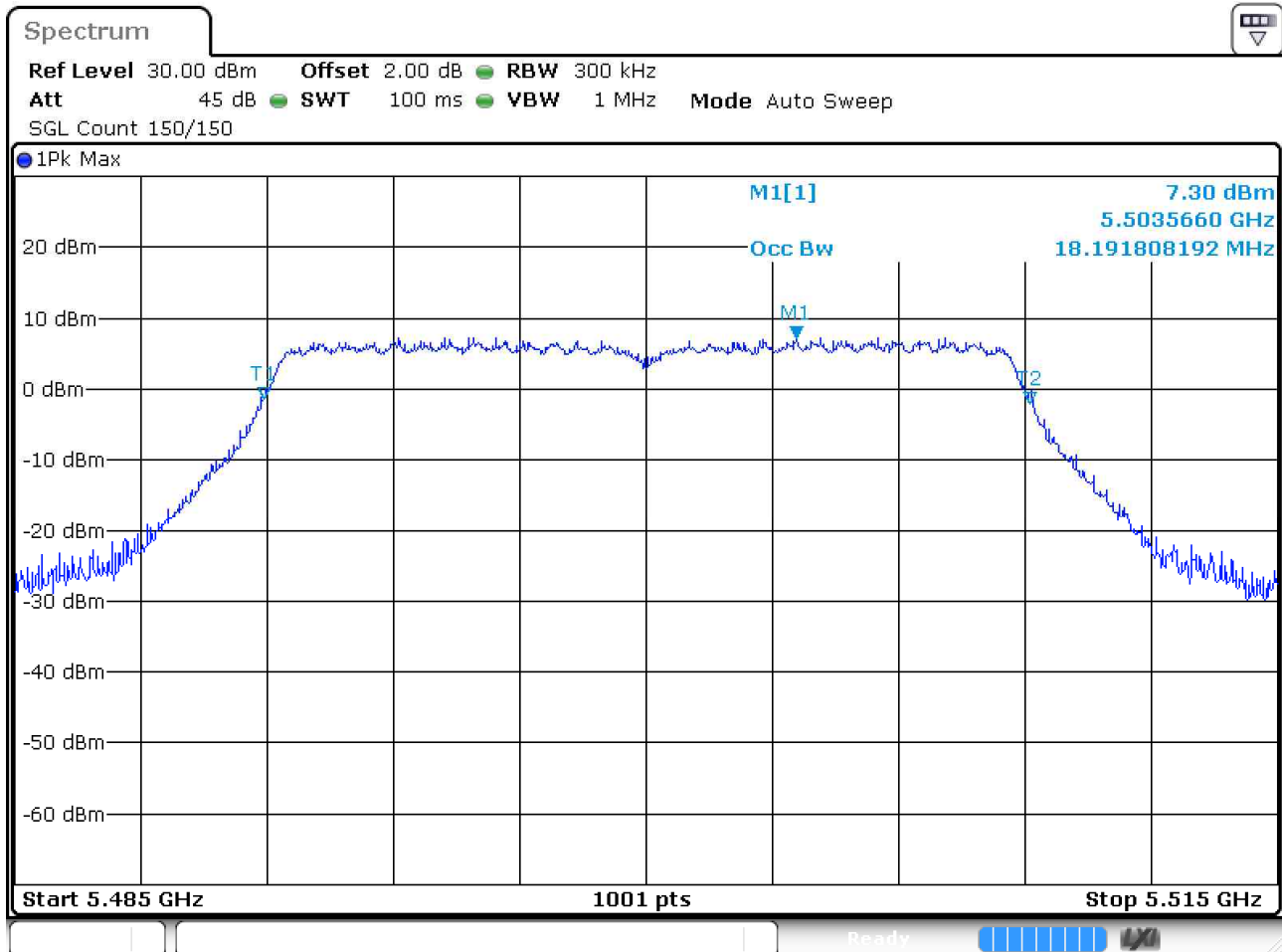
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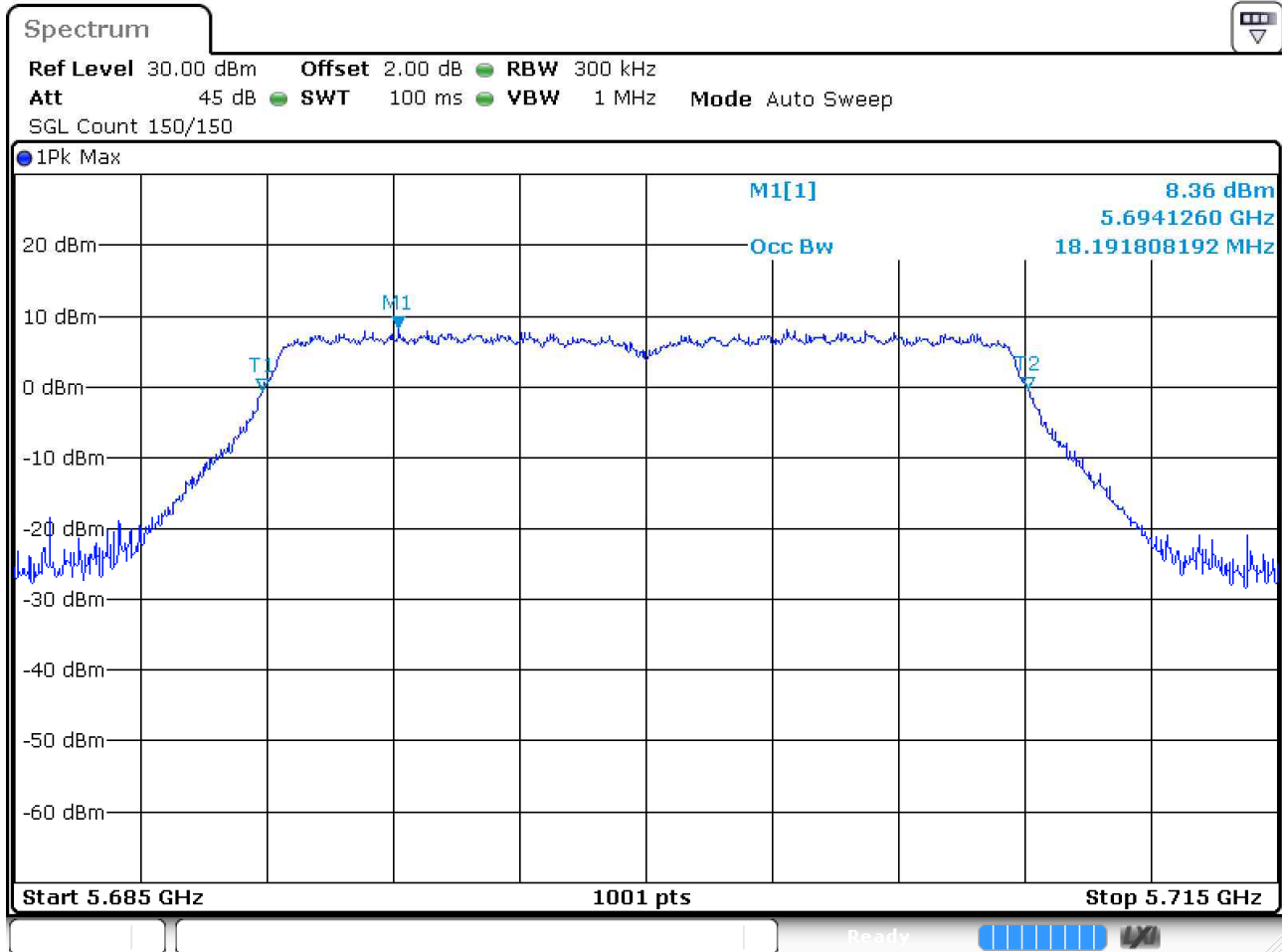
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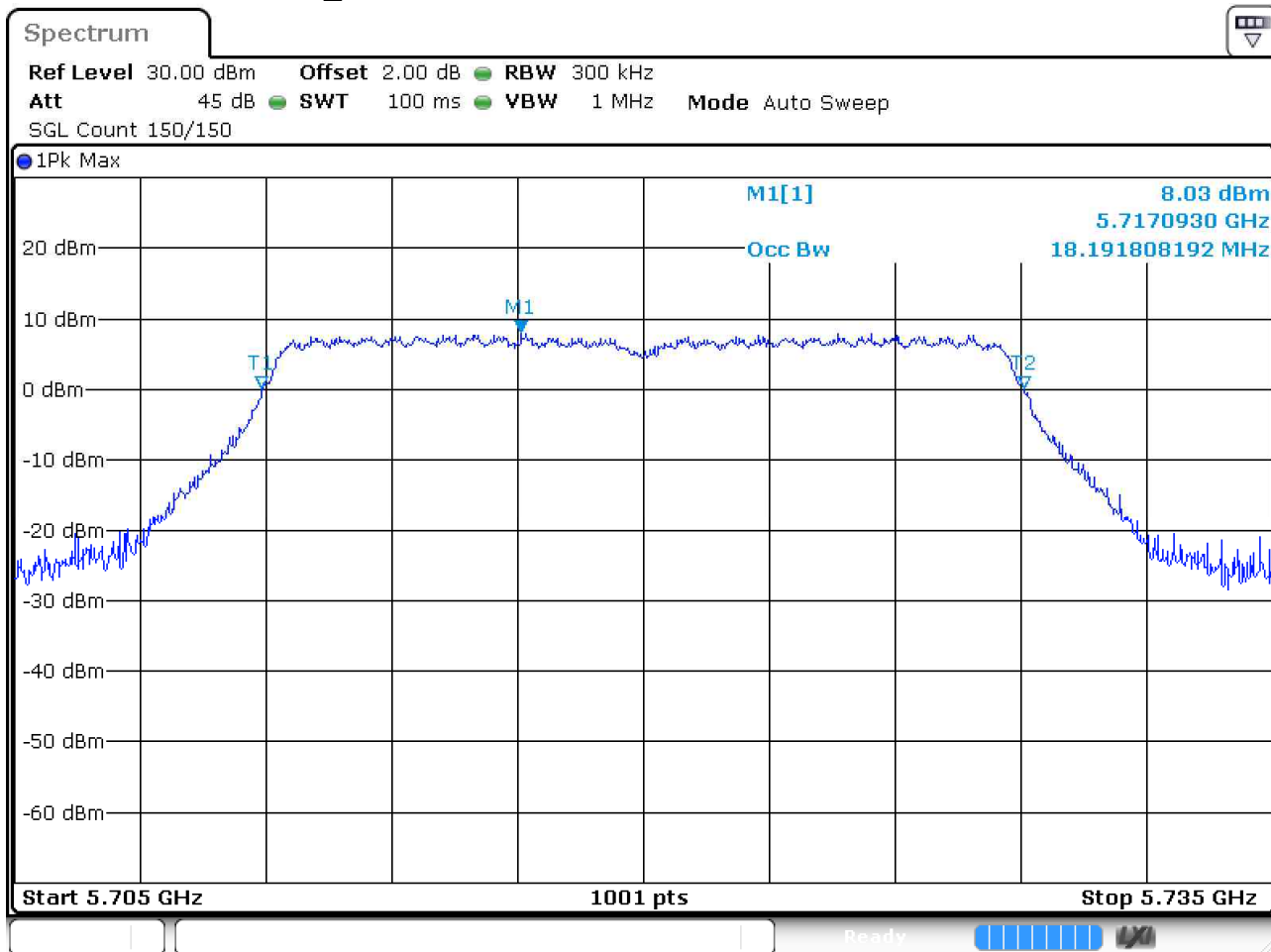
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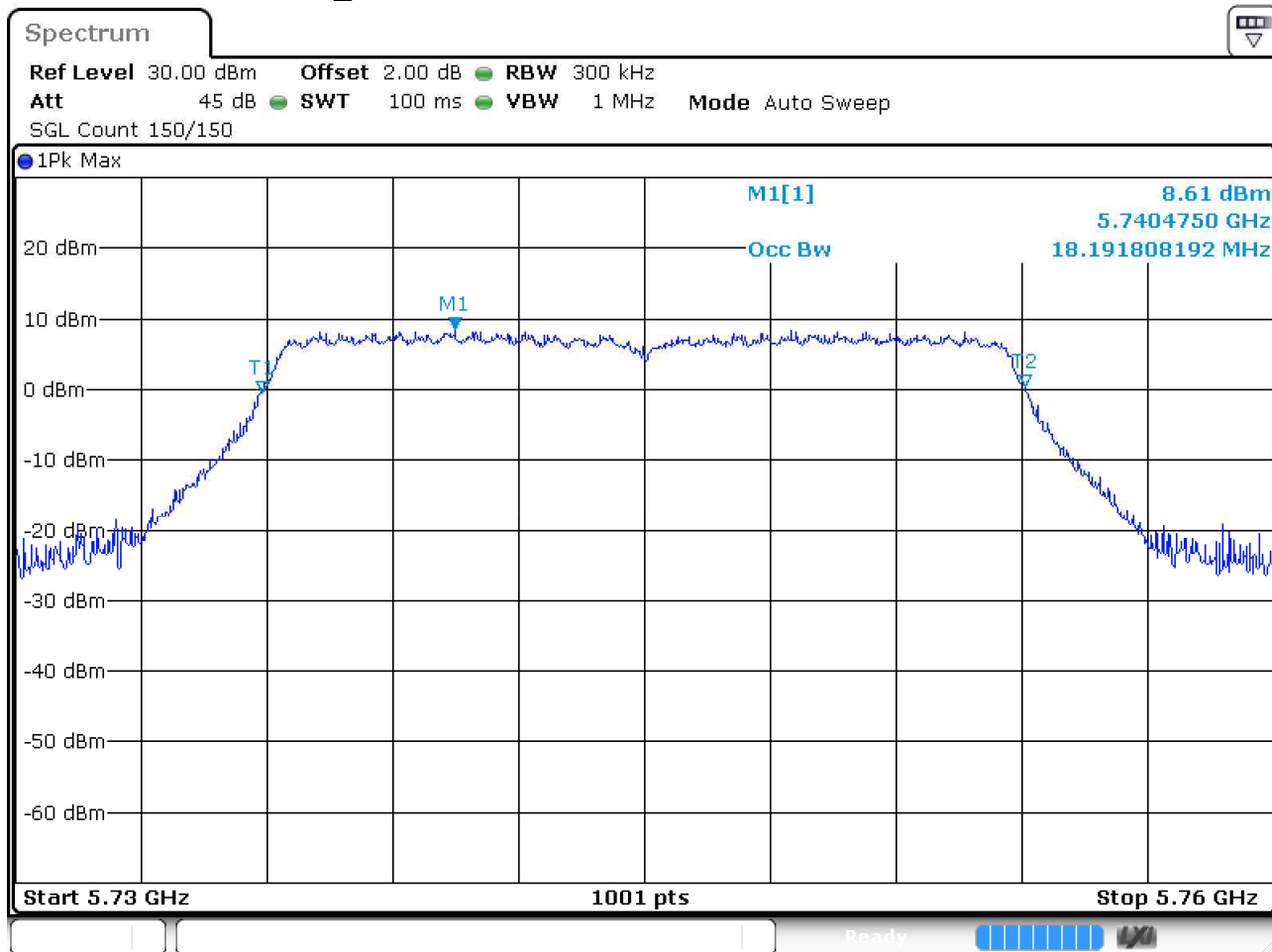
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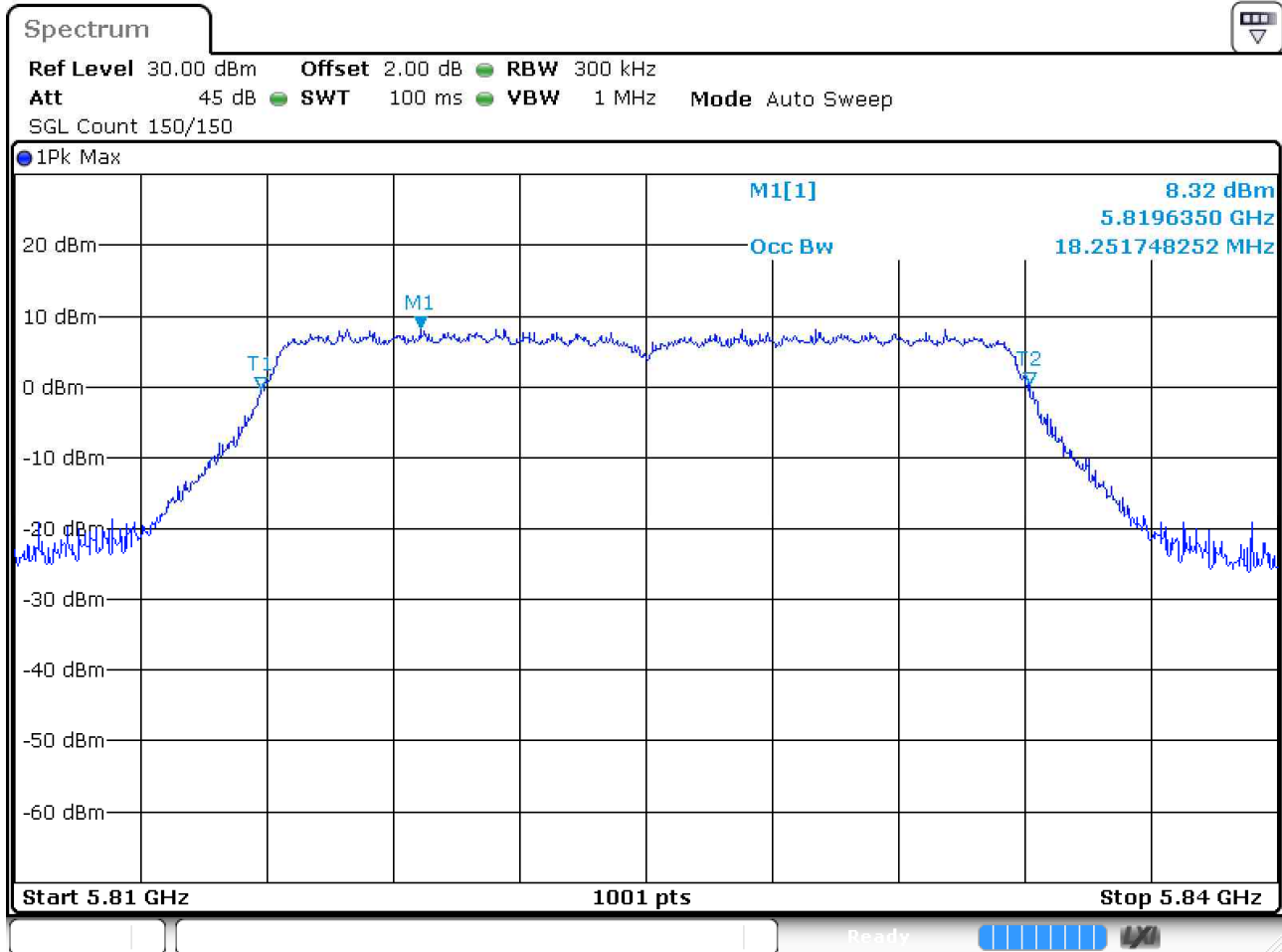
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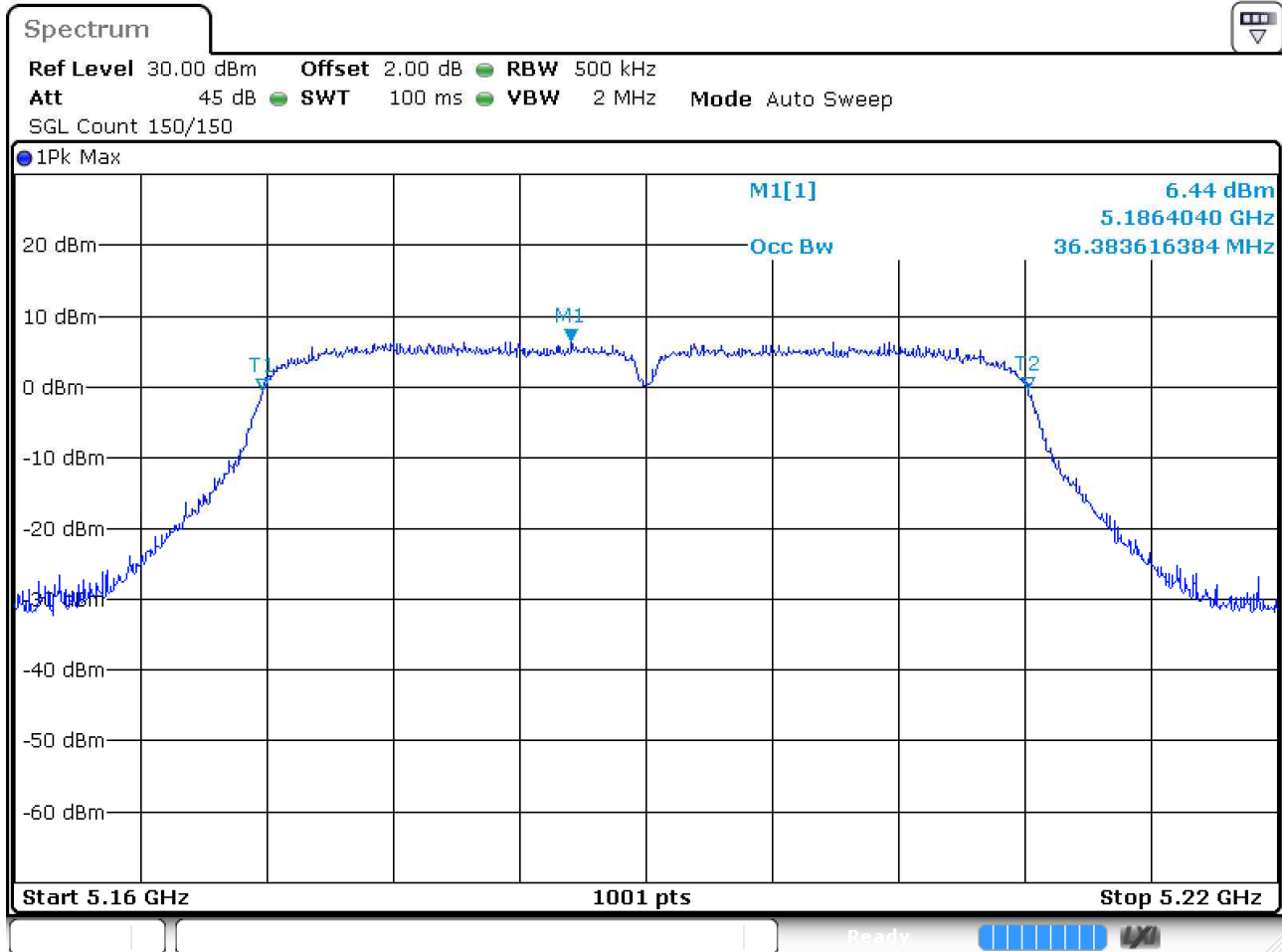
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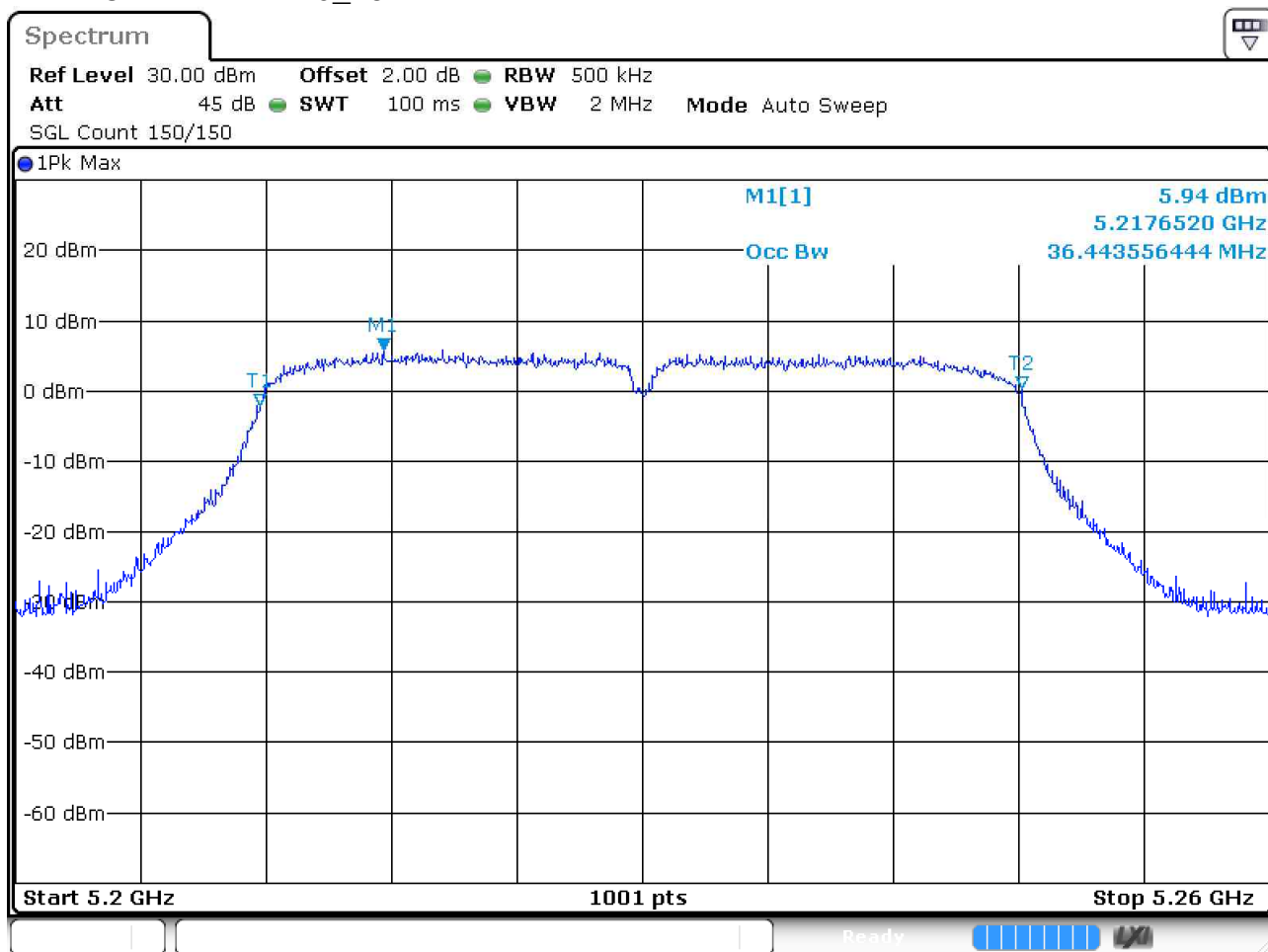
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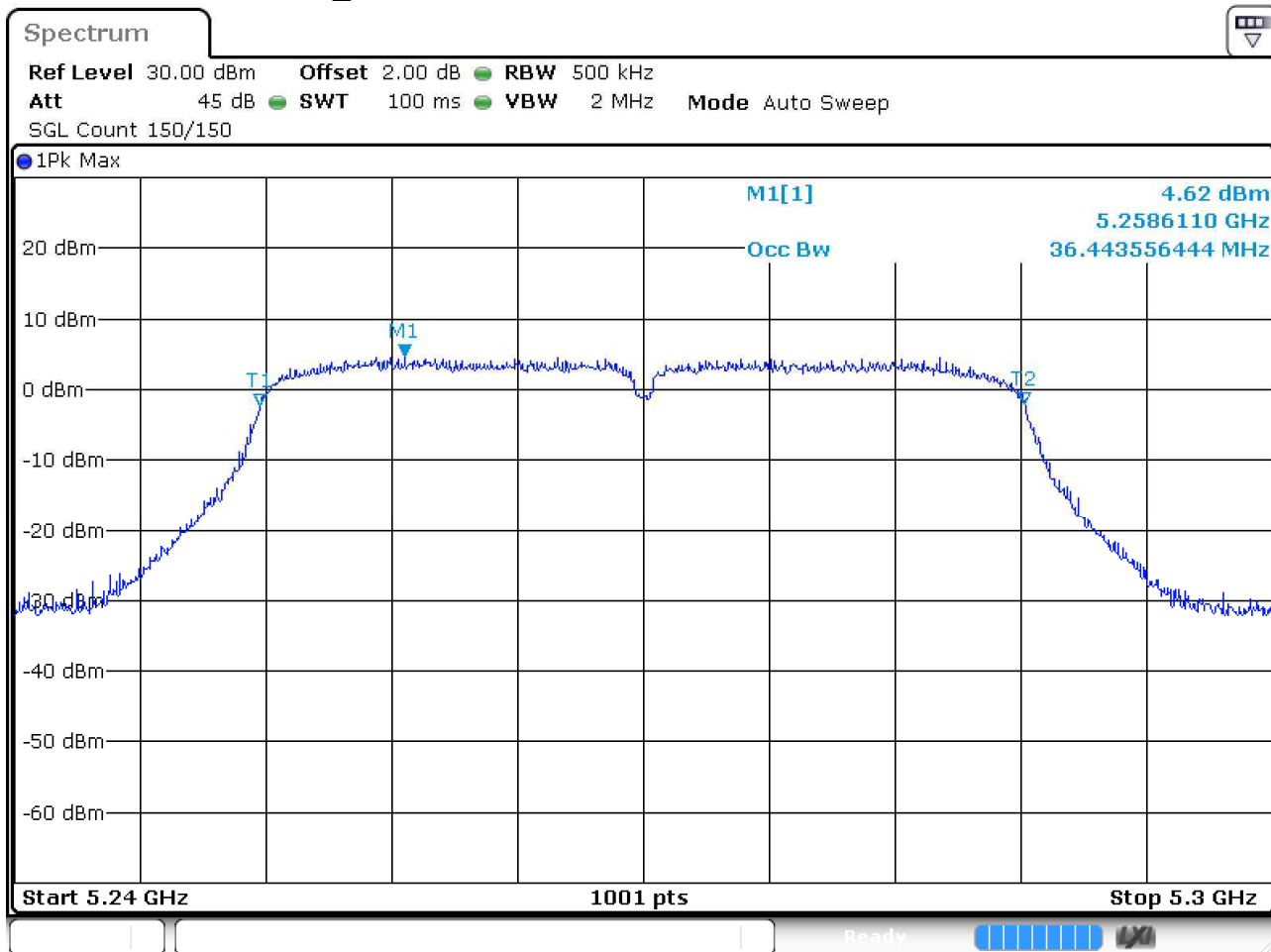
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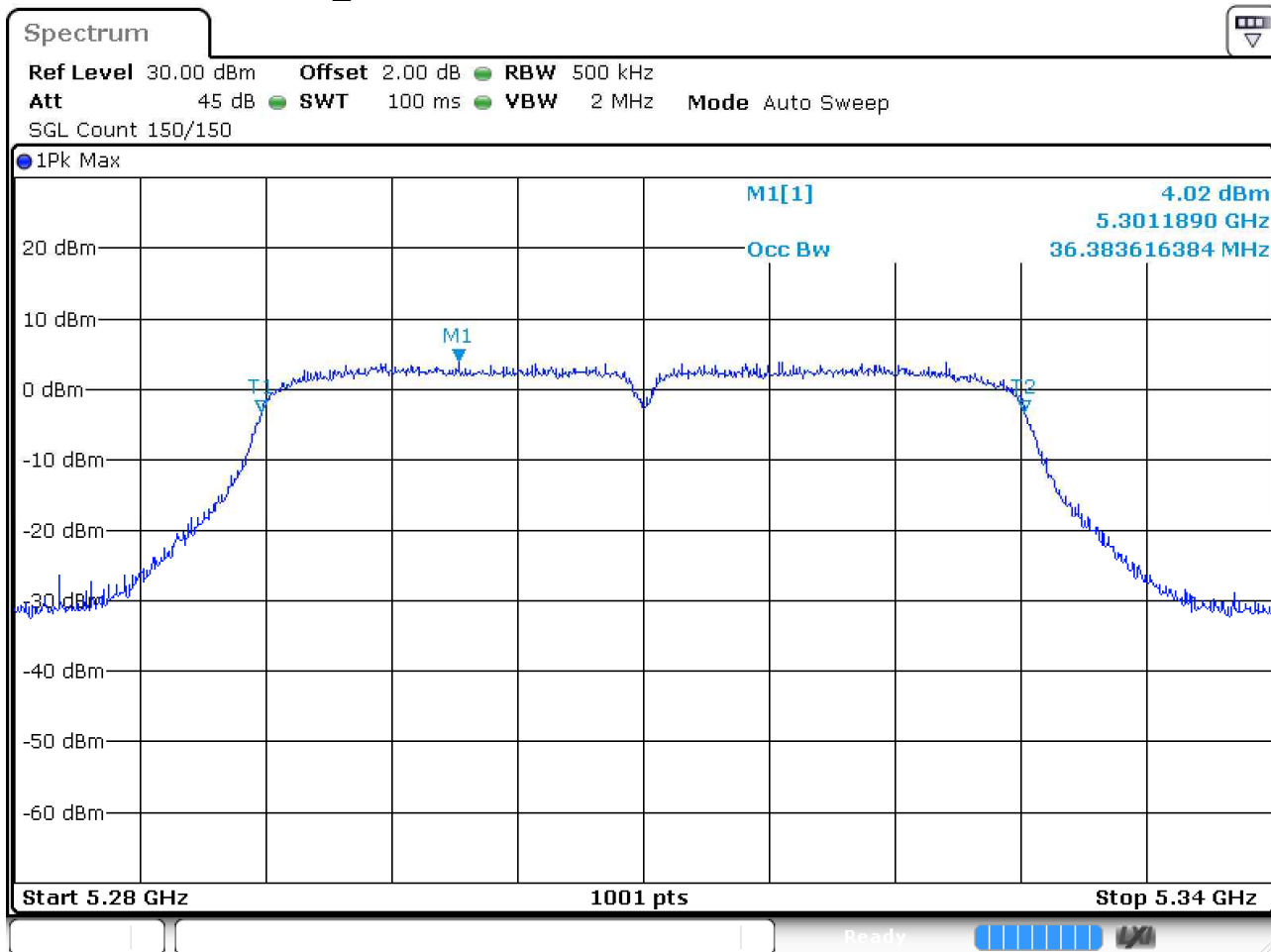


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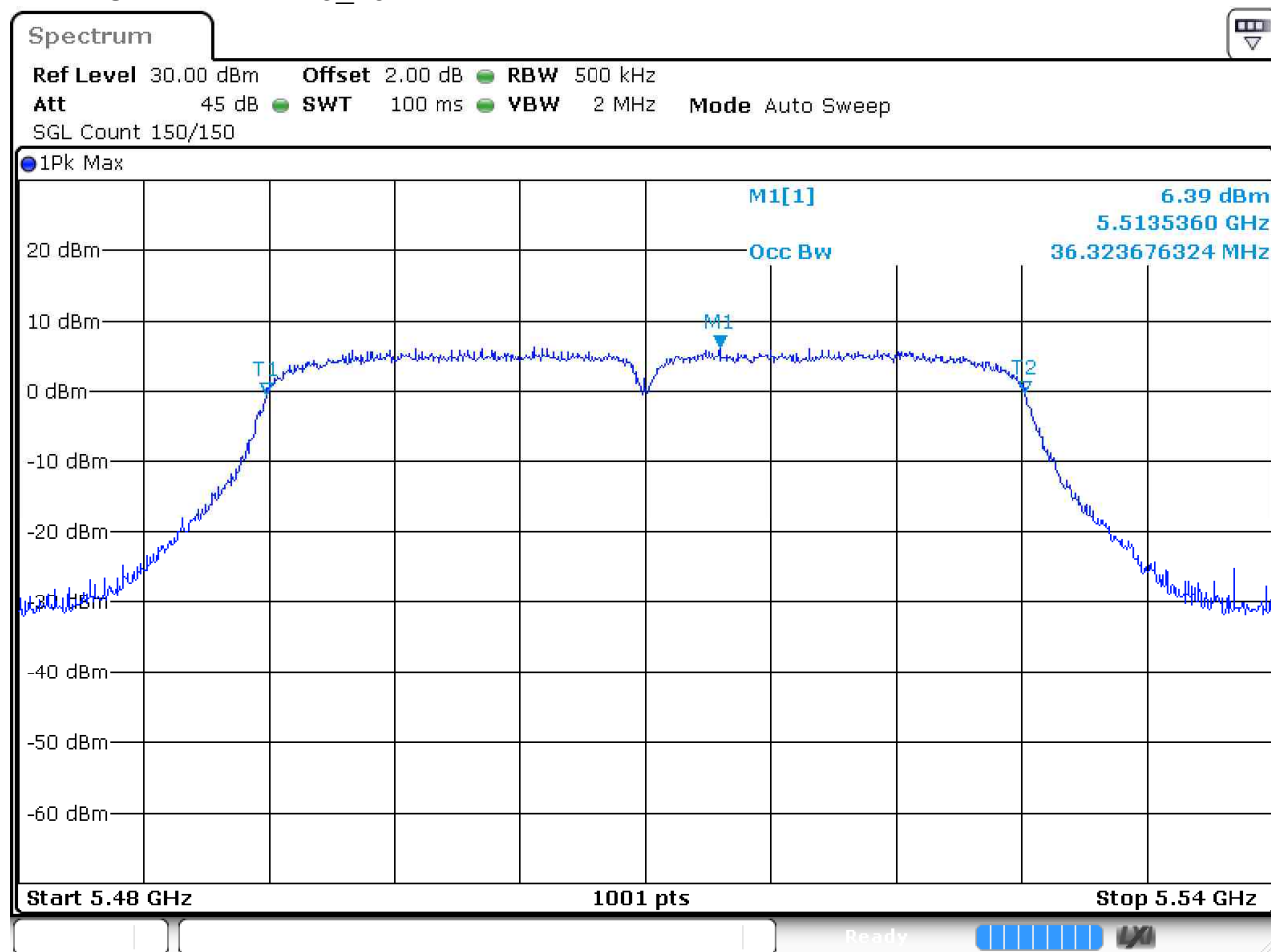
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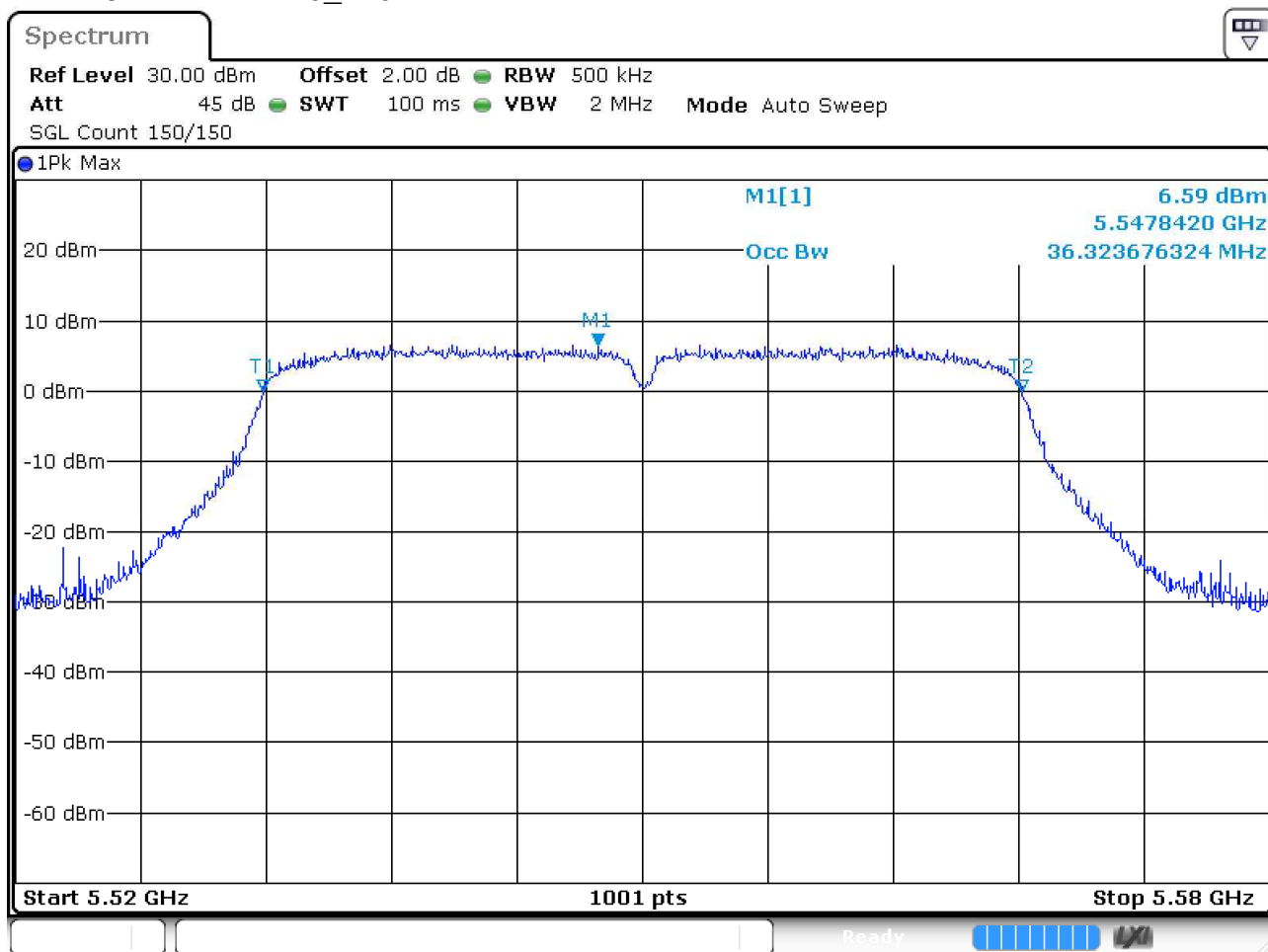


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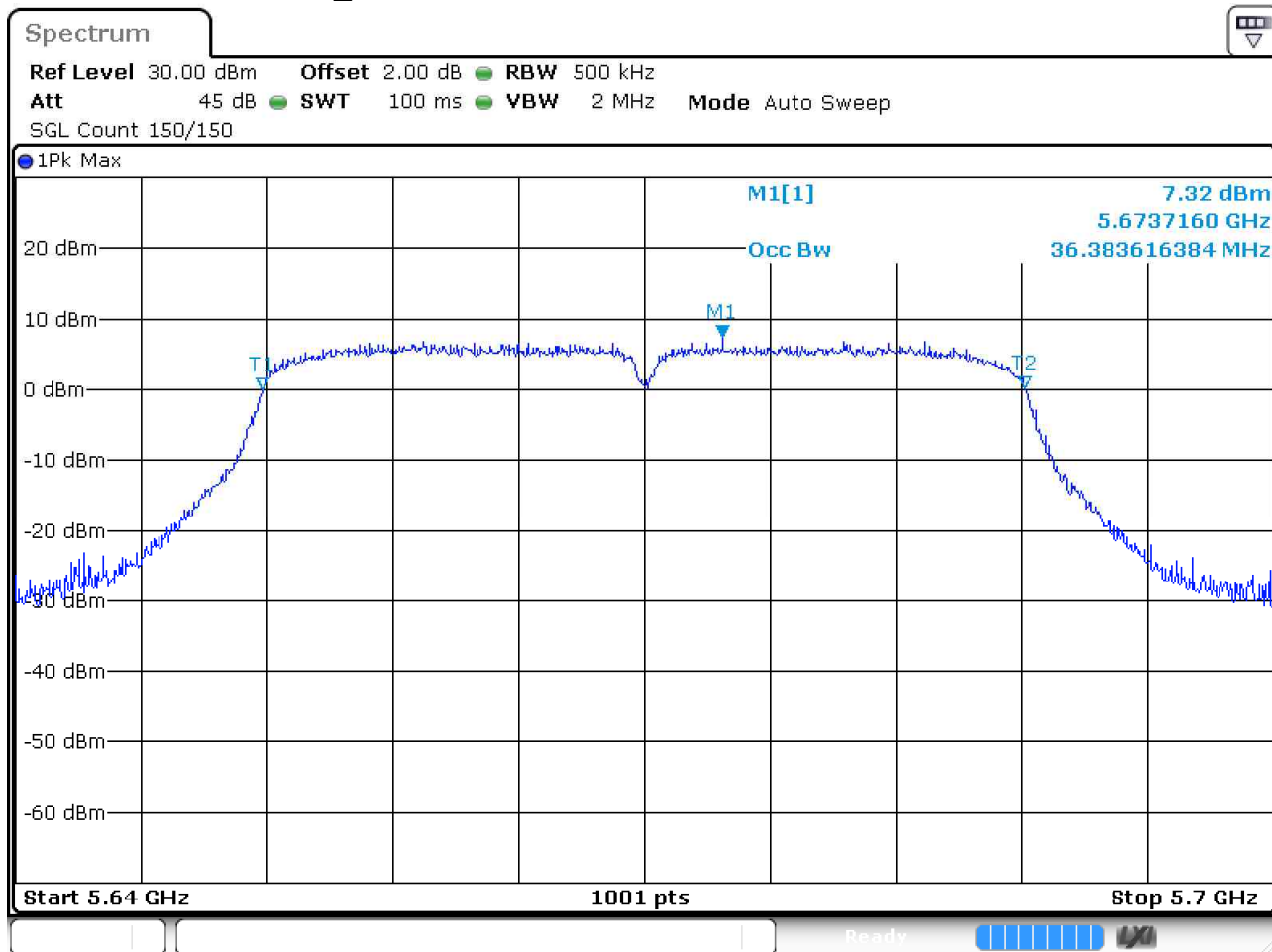
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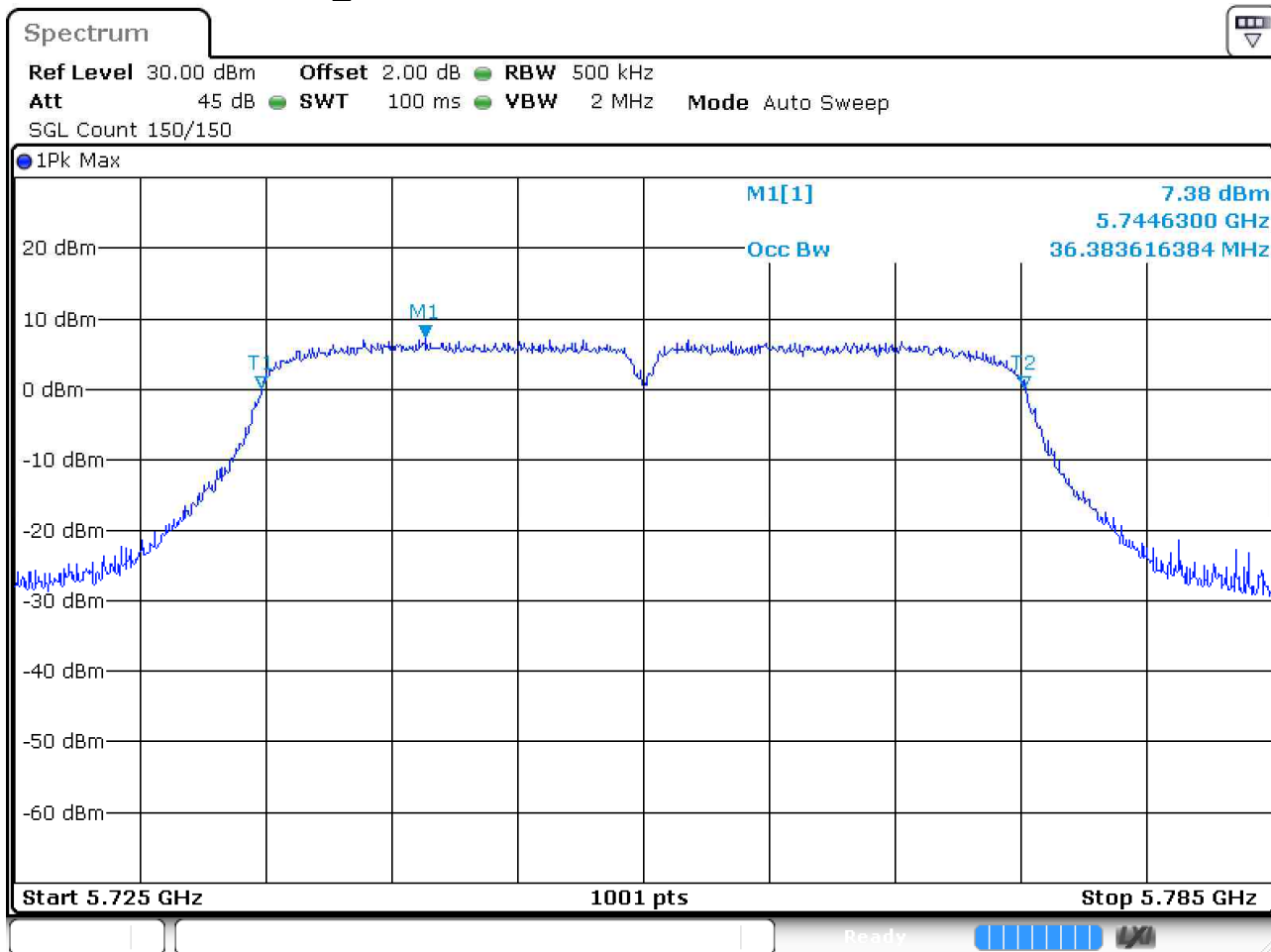
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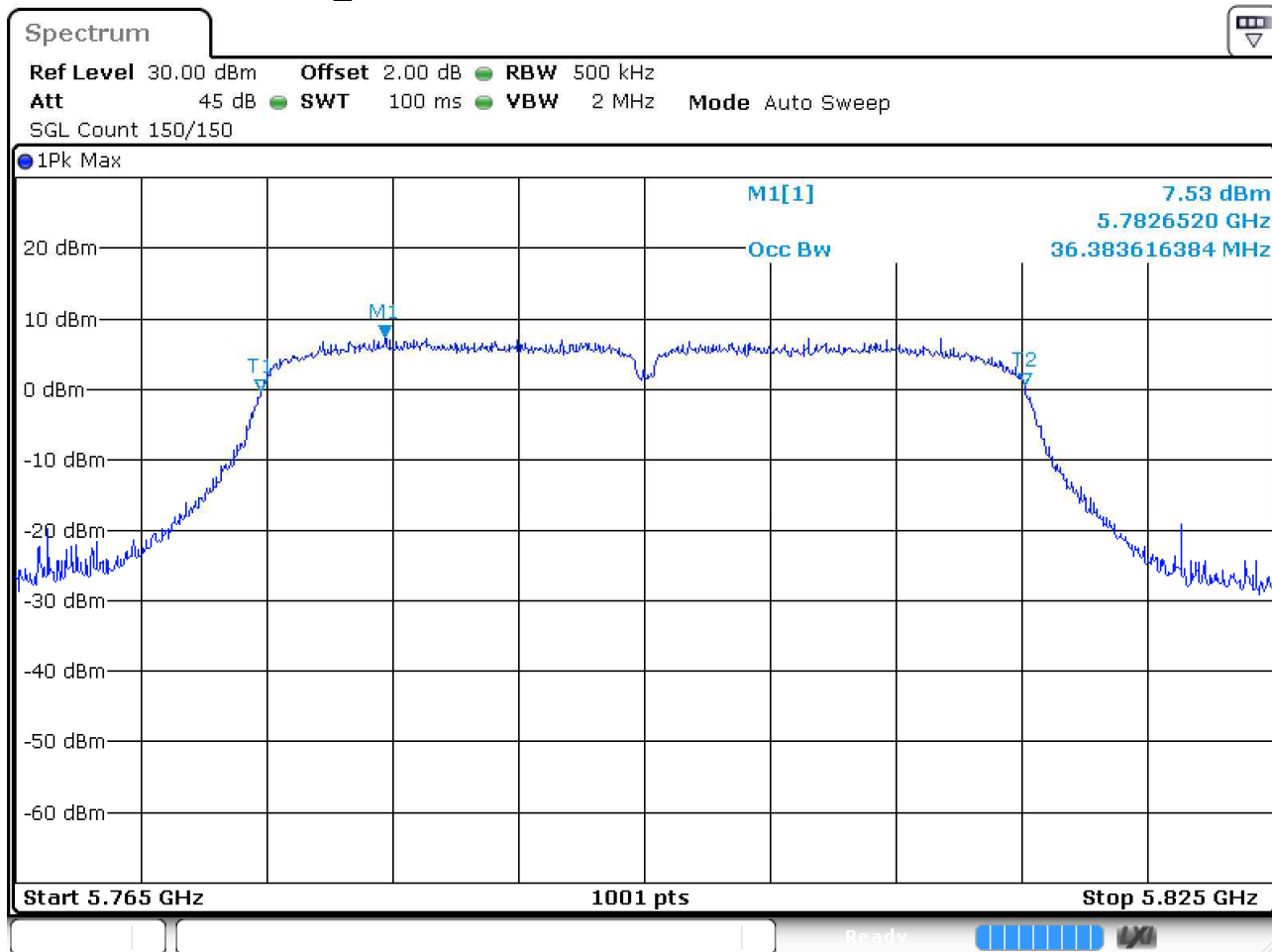
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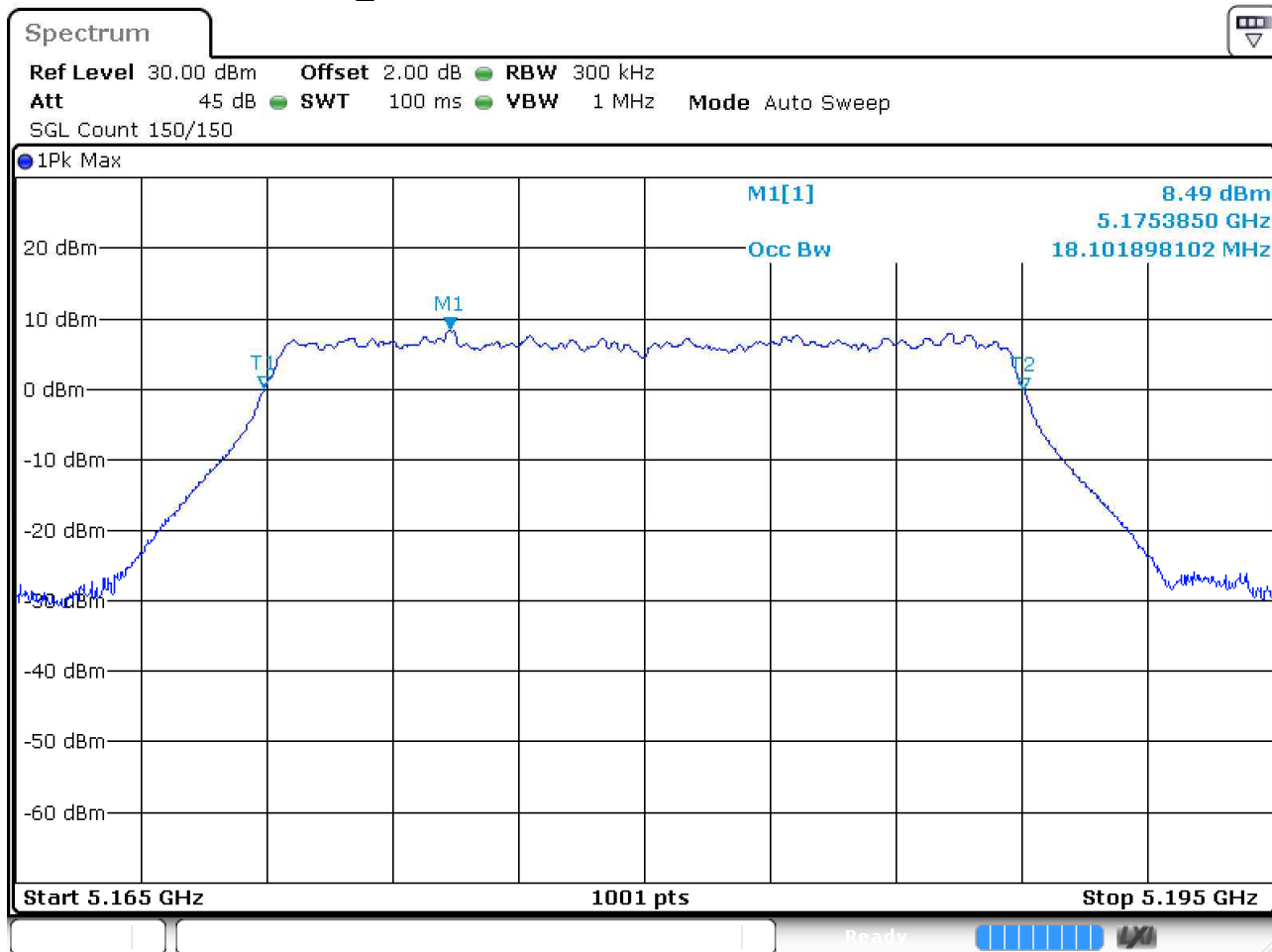
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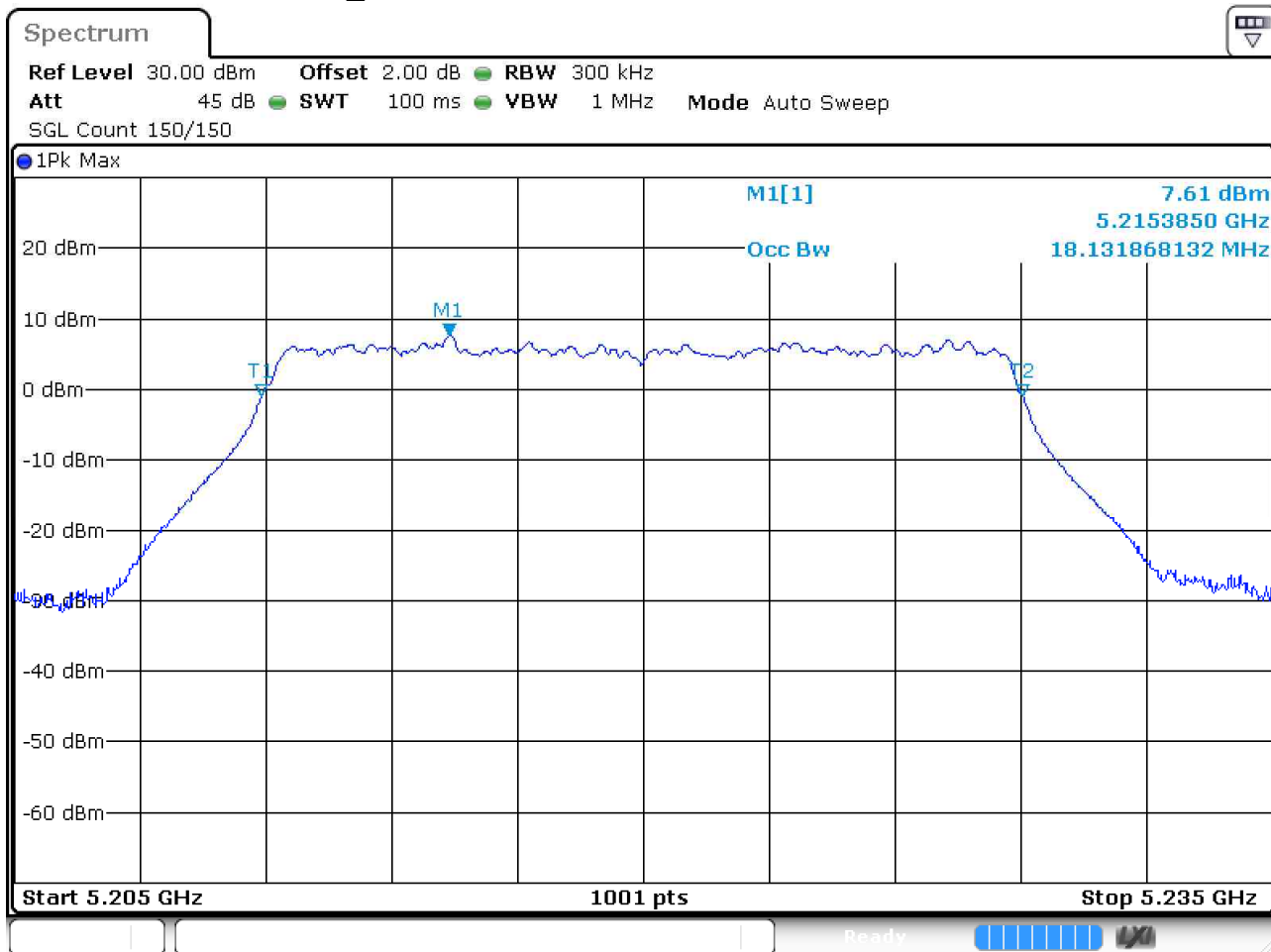
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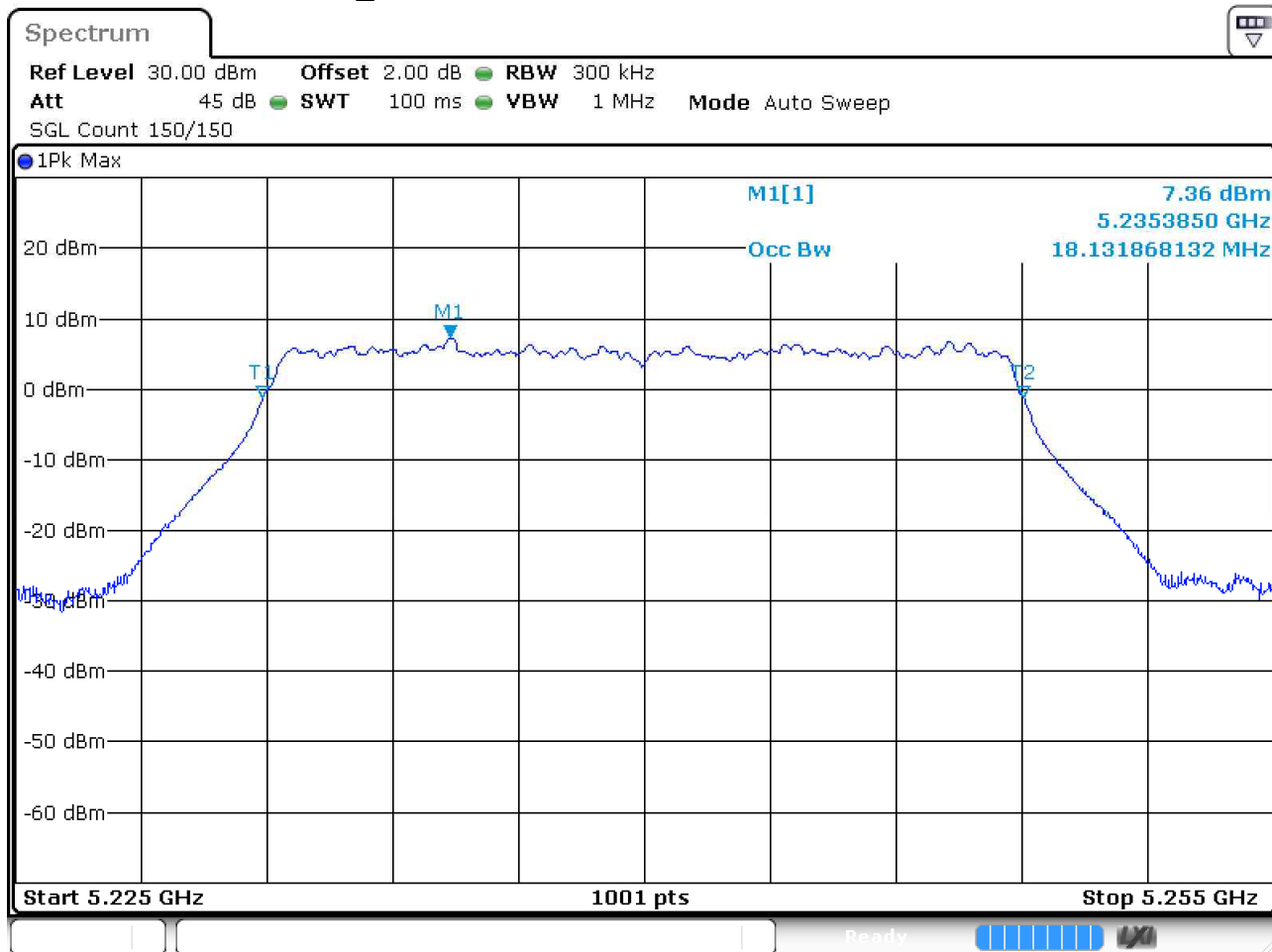
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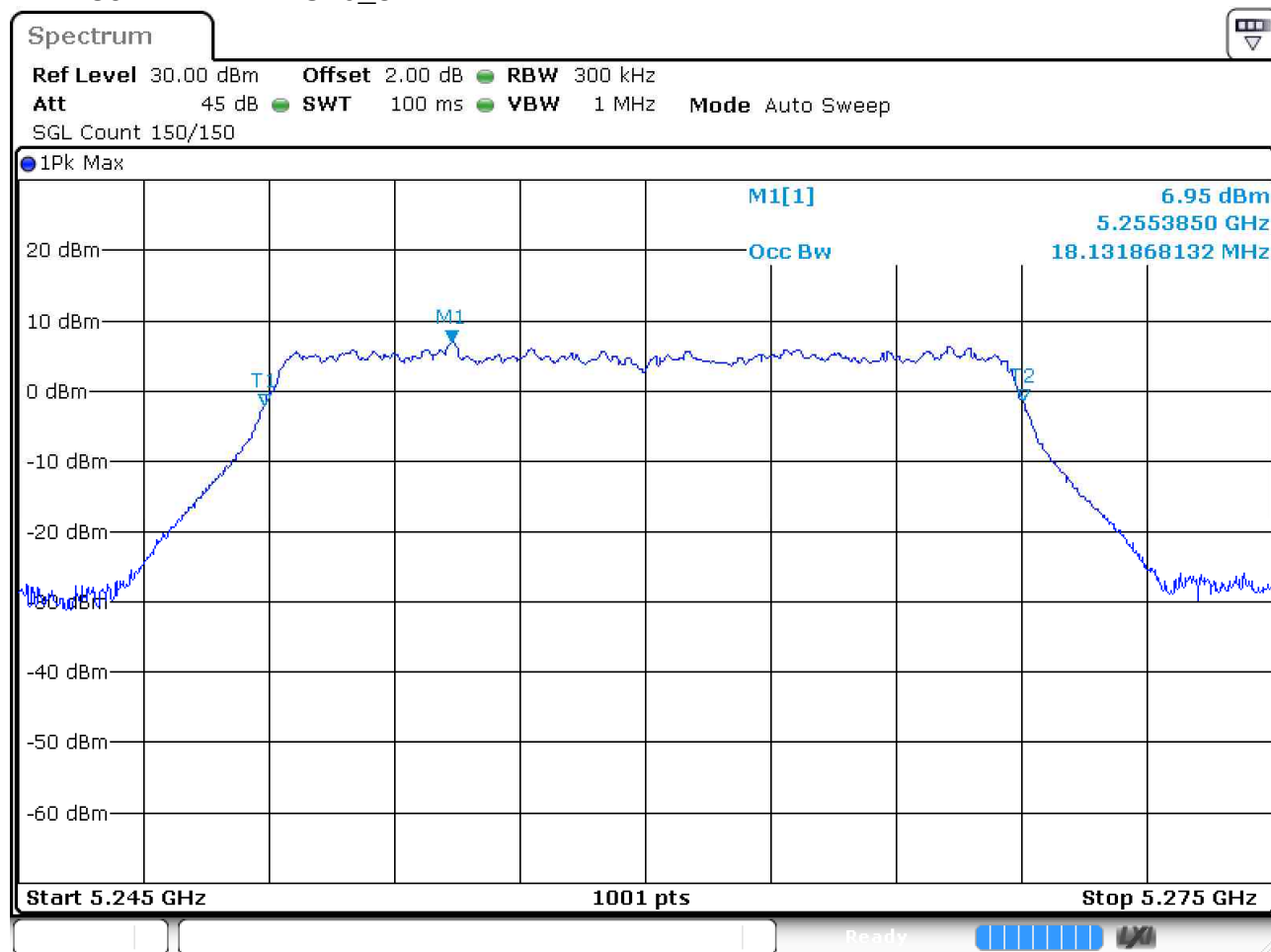
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4.7.2.36 11AC20_52 ANT 1



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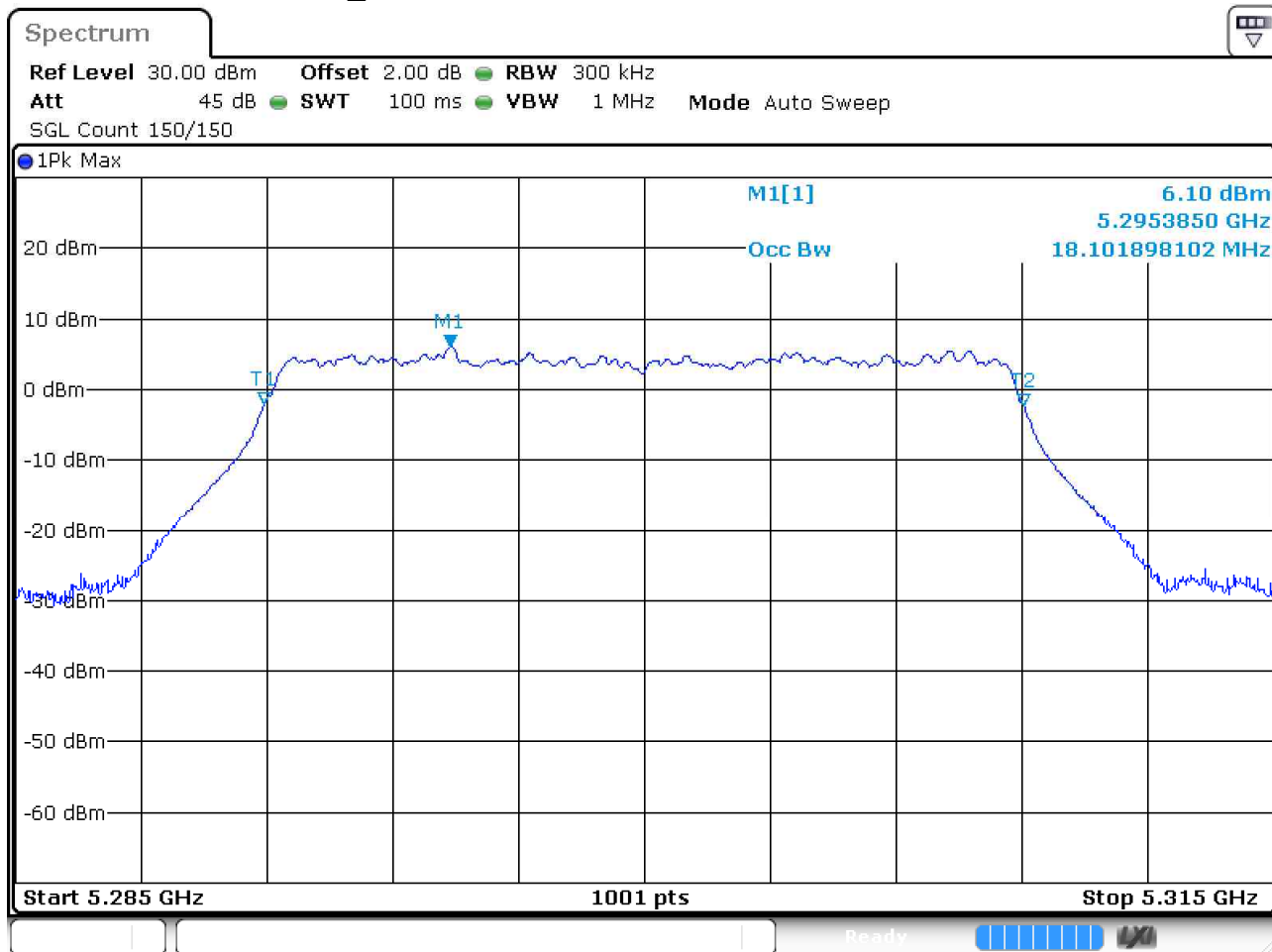
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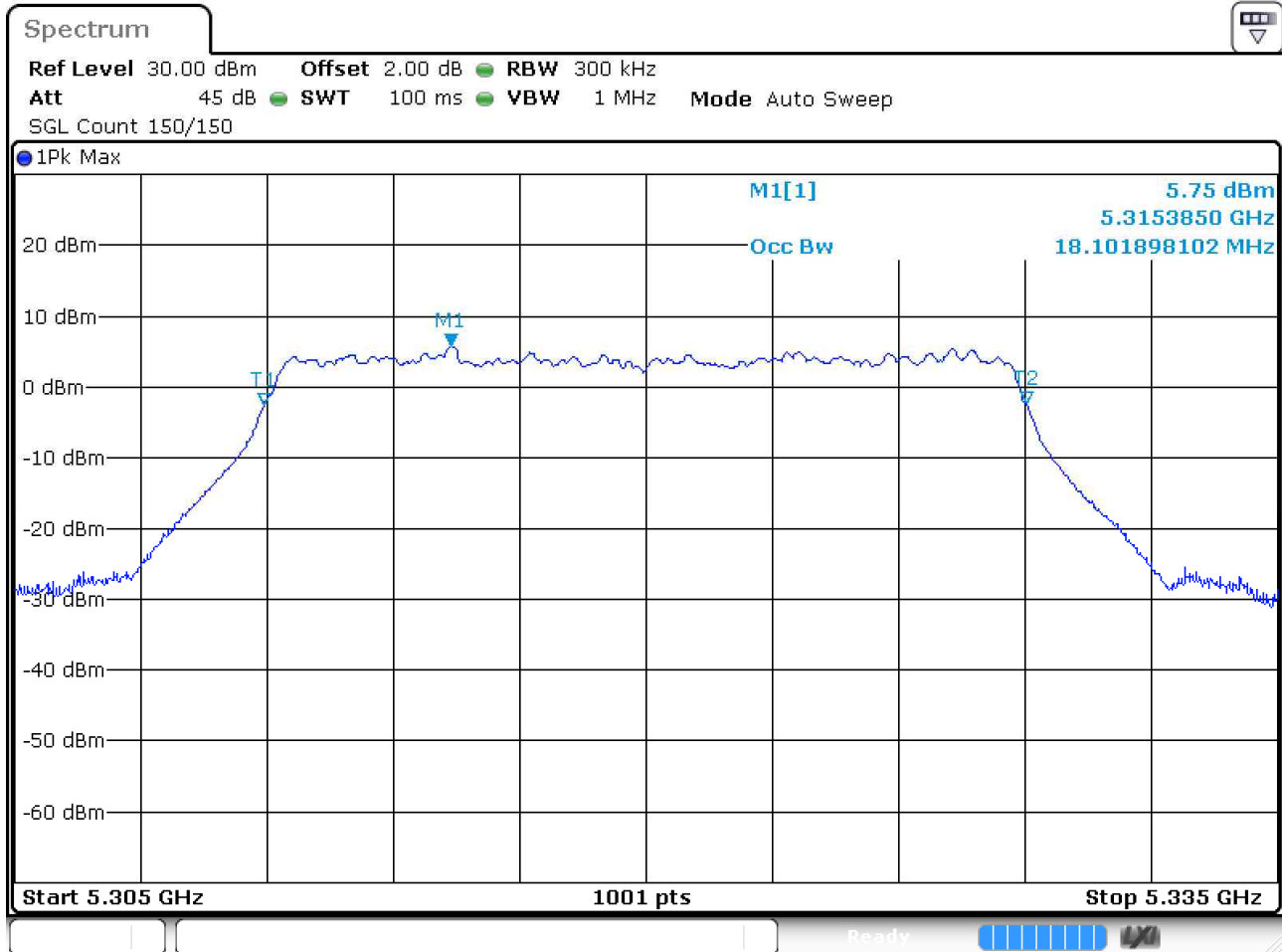
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4.7.2.37 11AC20_60 ANT 1



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4.7.2.38 11AC20_64 ANT 1



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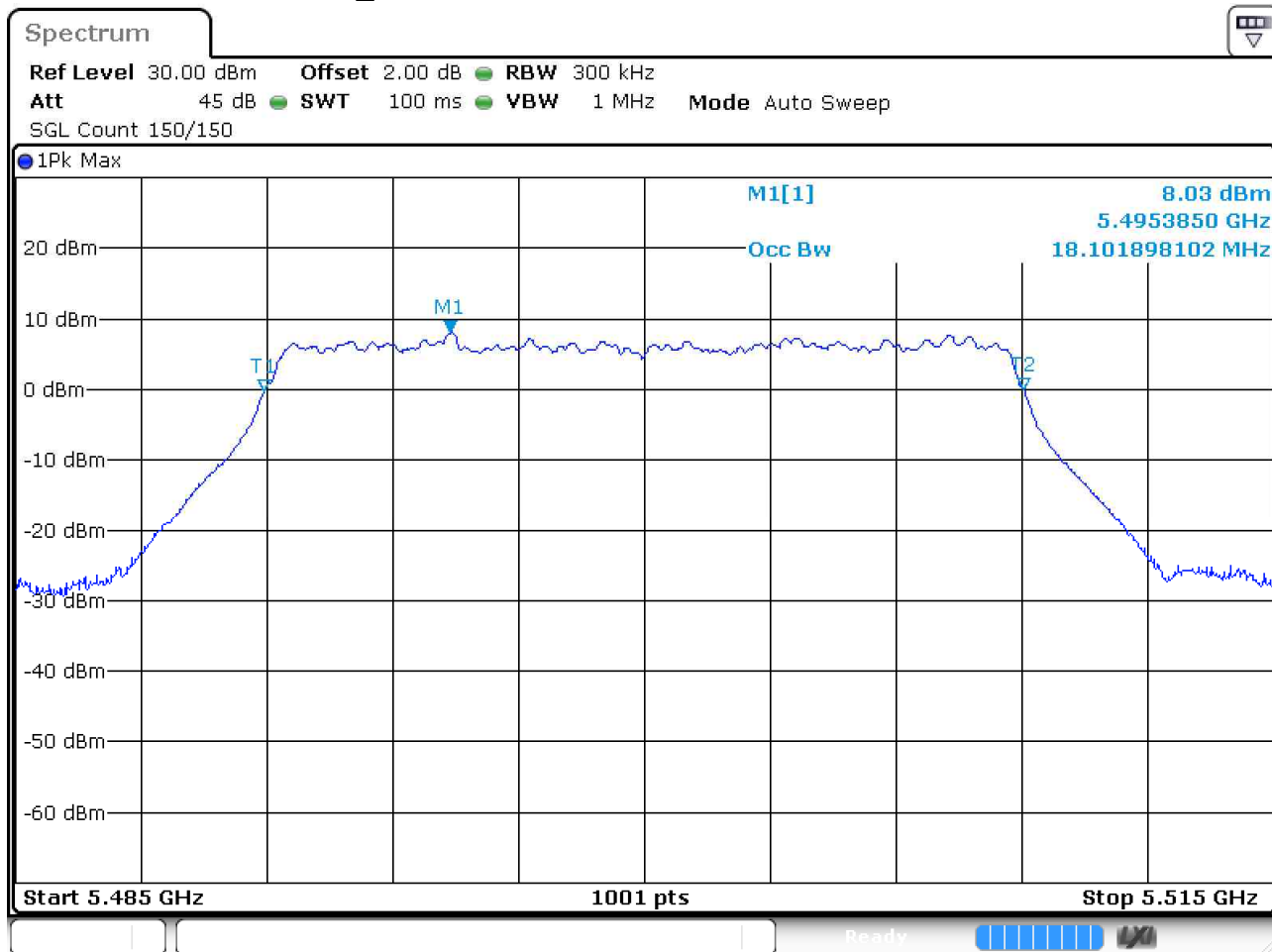


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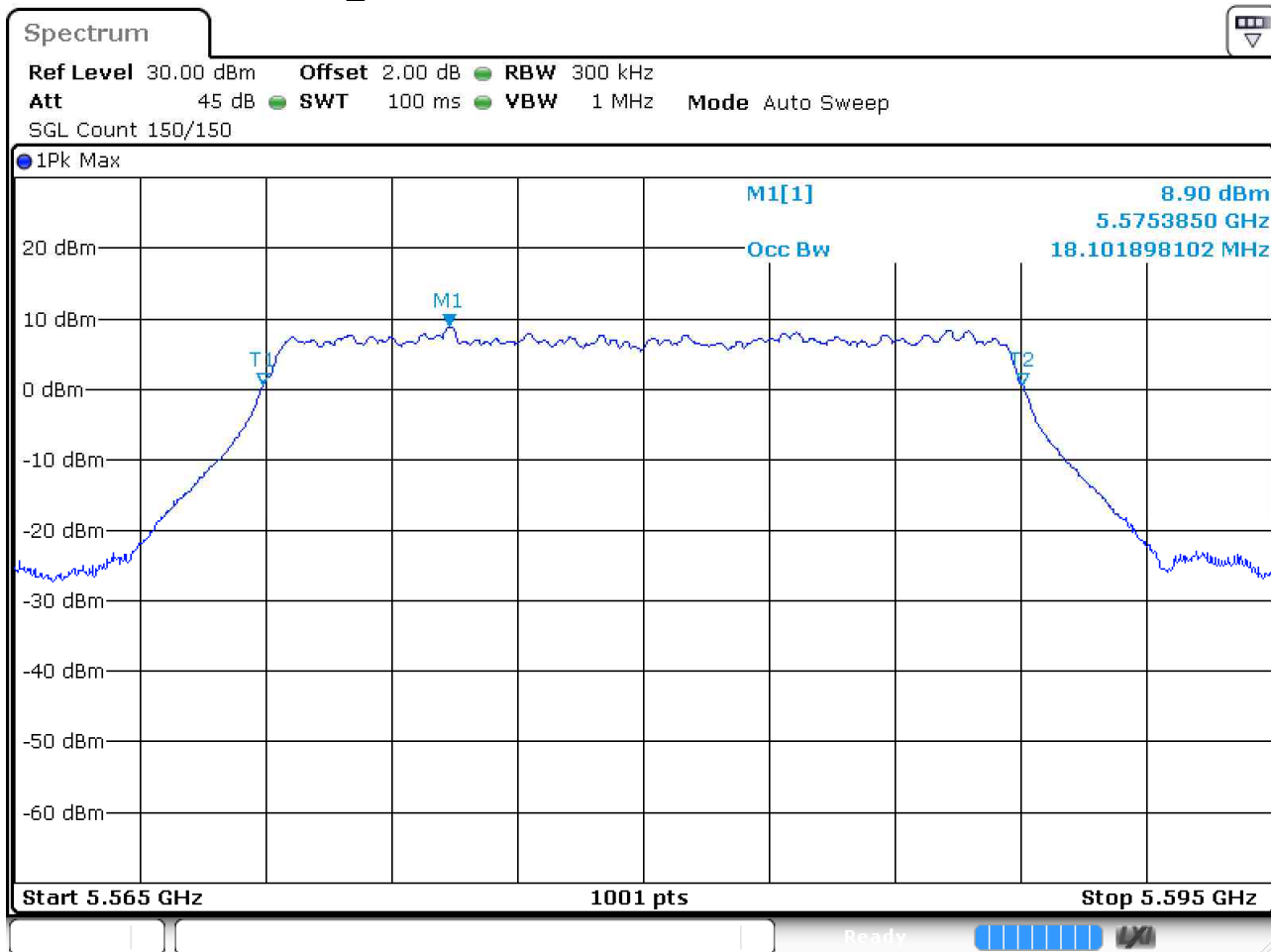
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4.7.2.40 11AC20_116 ANT 1



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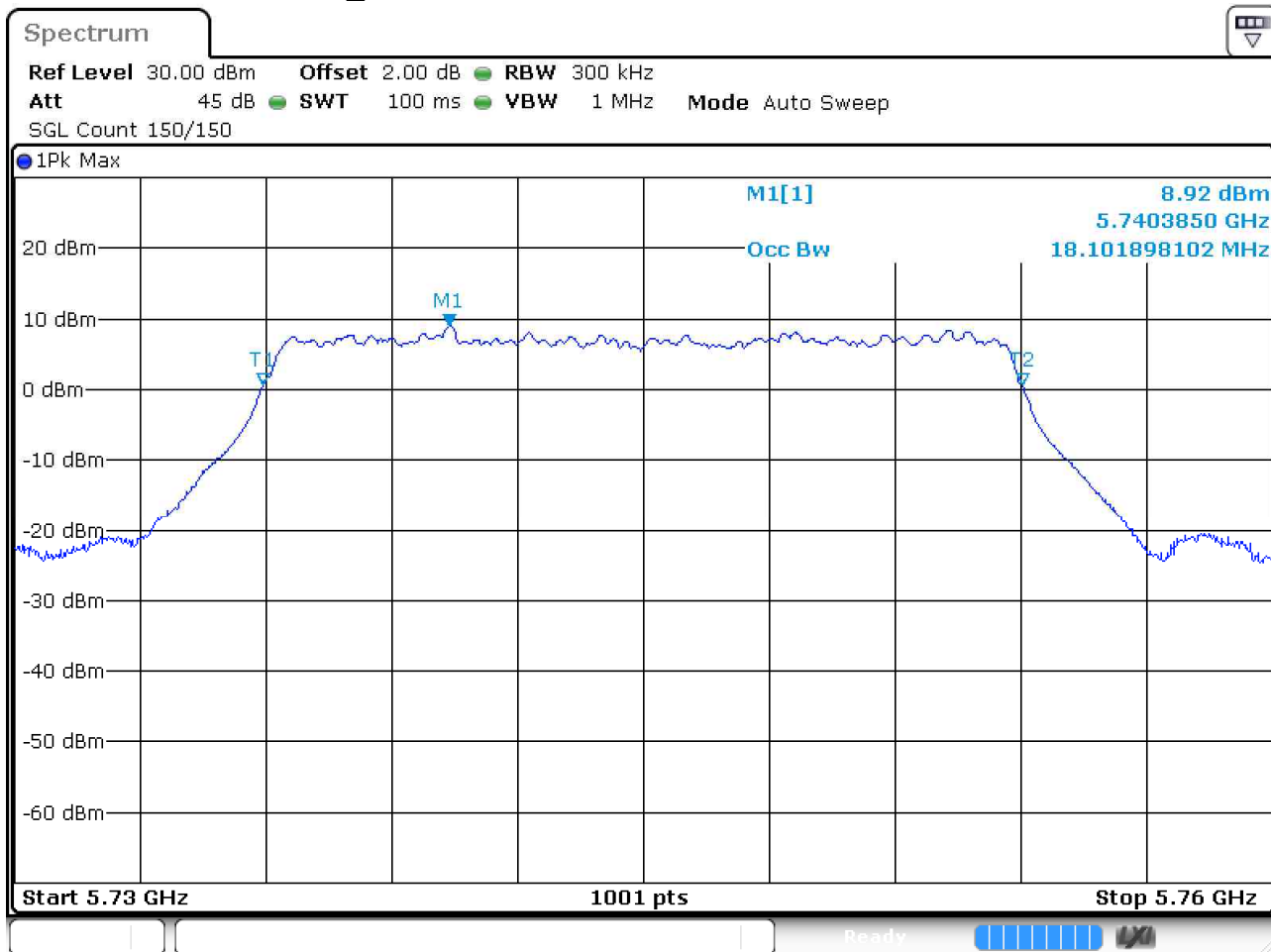
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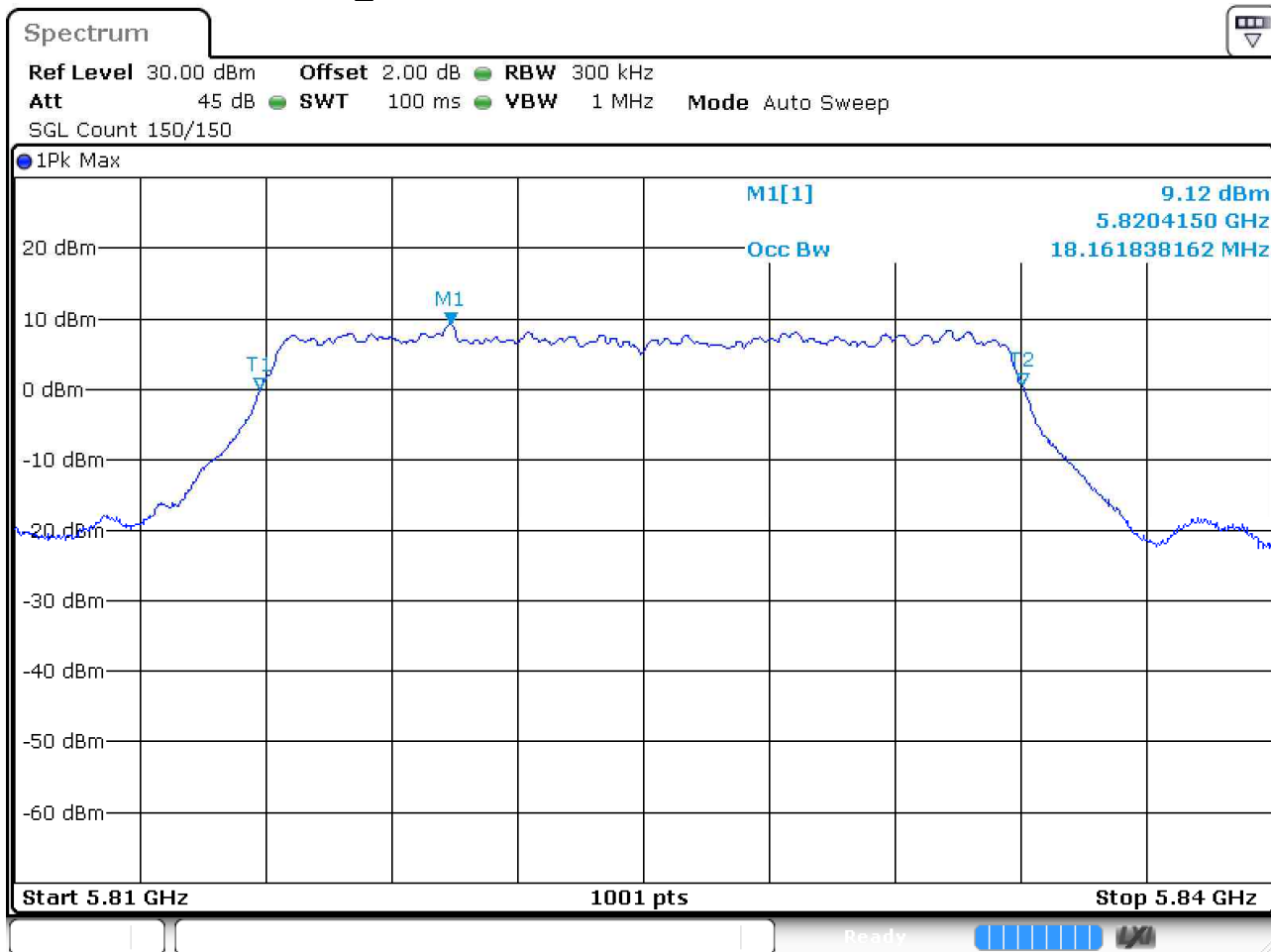
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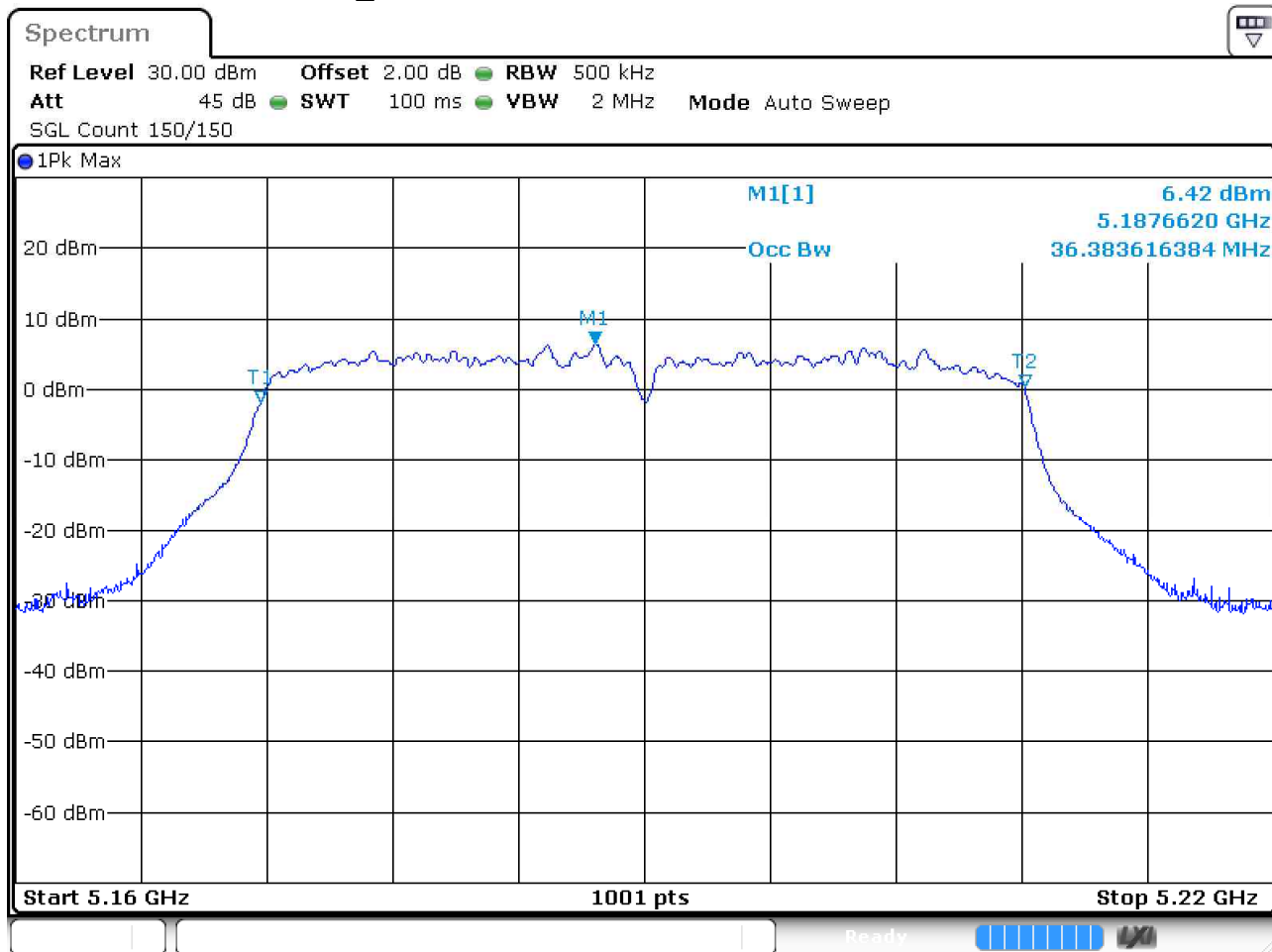
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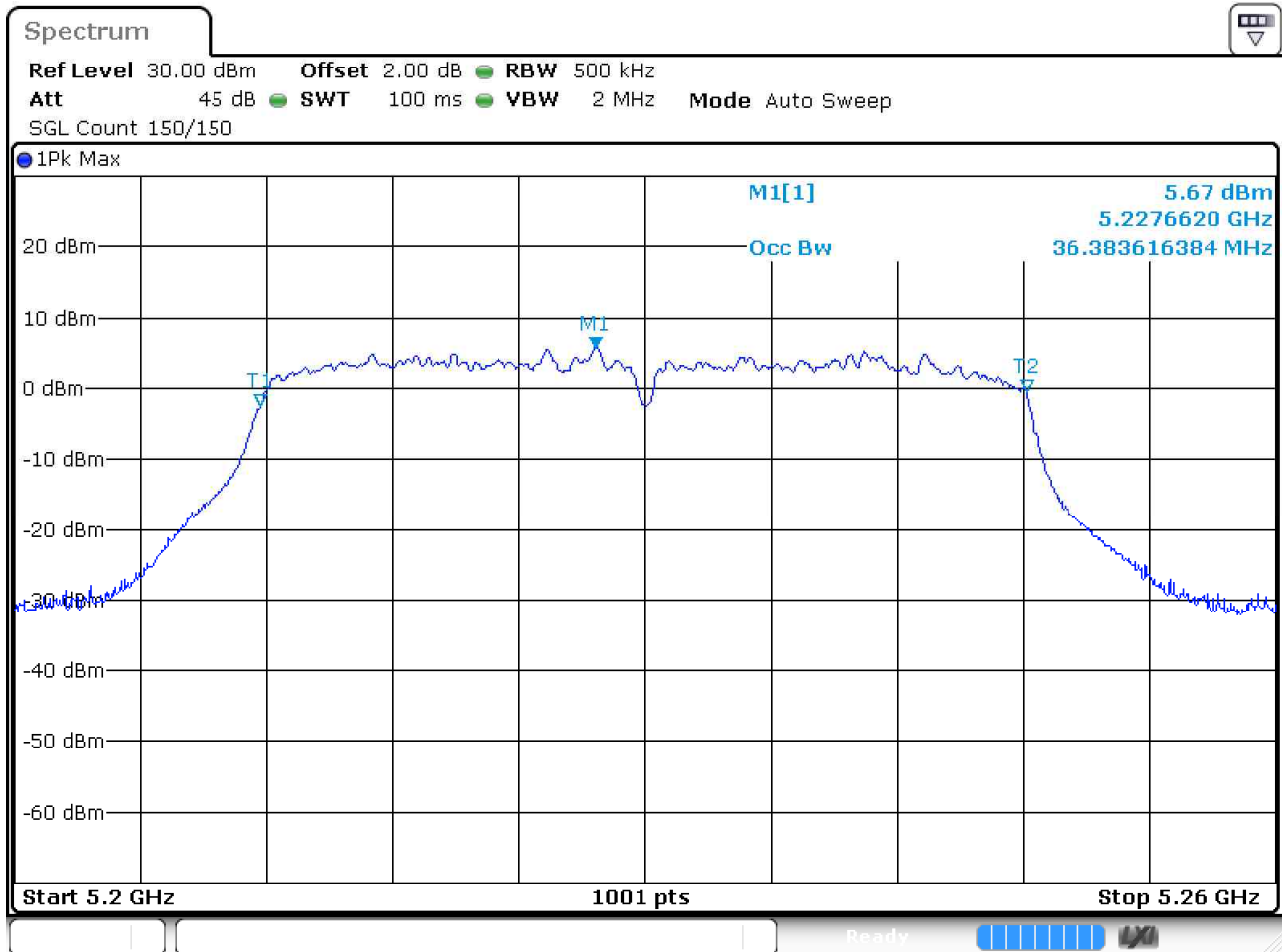
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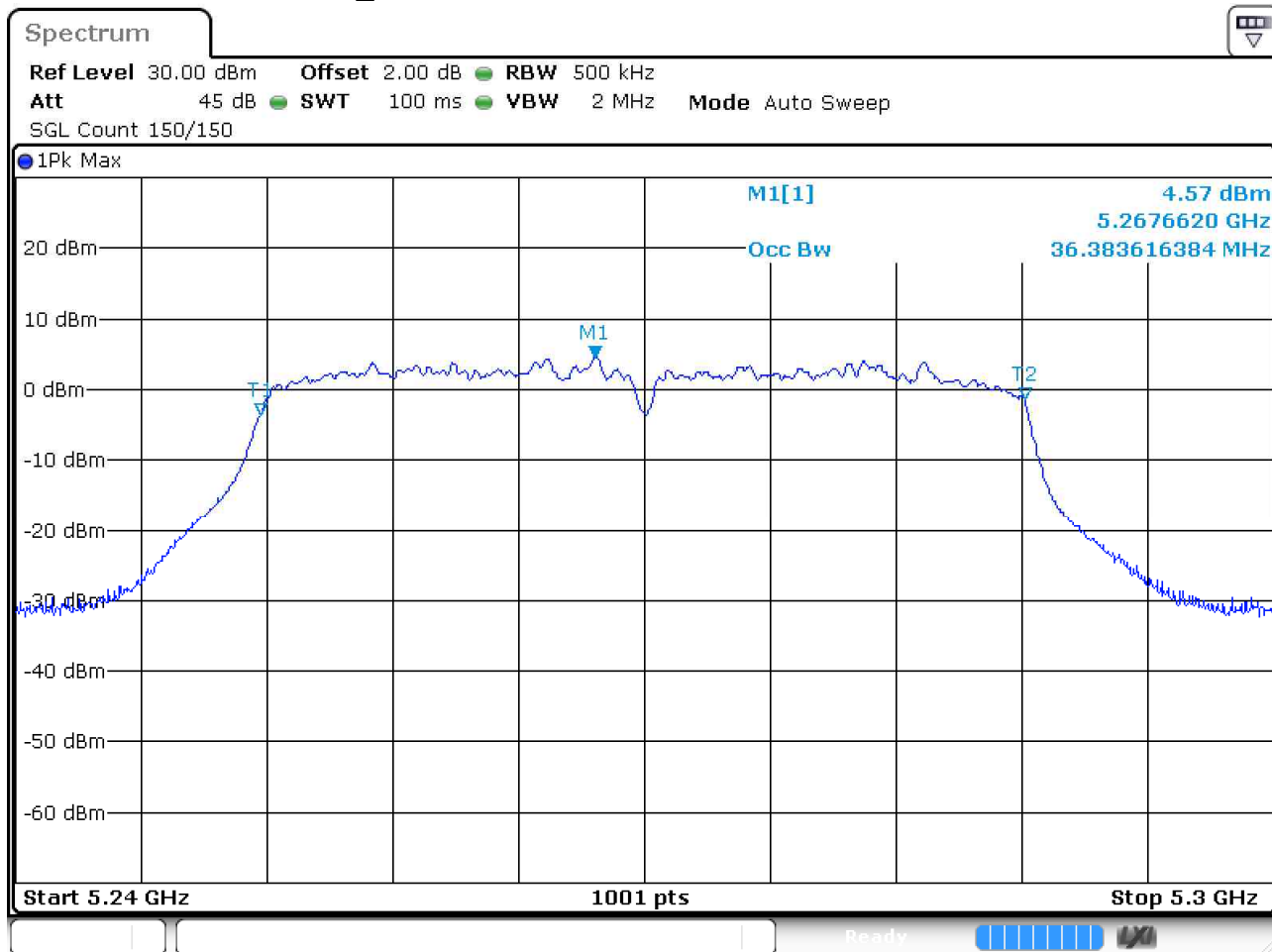
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4.7.2.44 11AC40_46 ANT 1



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4.7.2.45 11AC40_54 ANT 1



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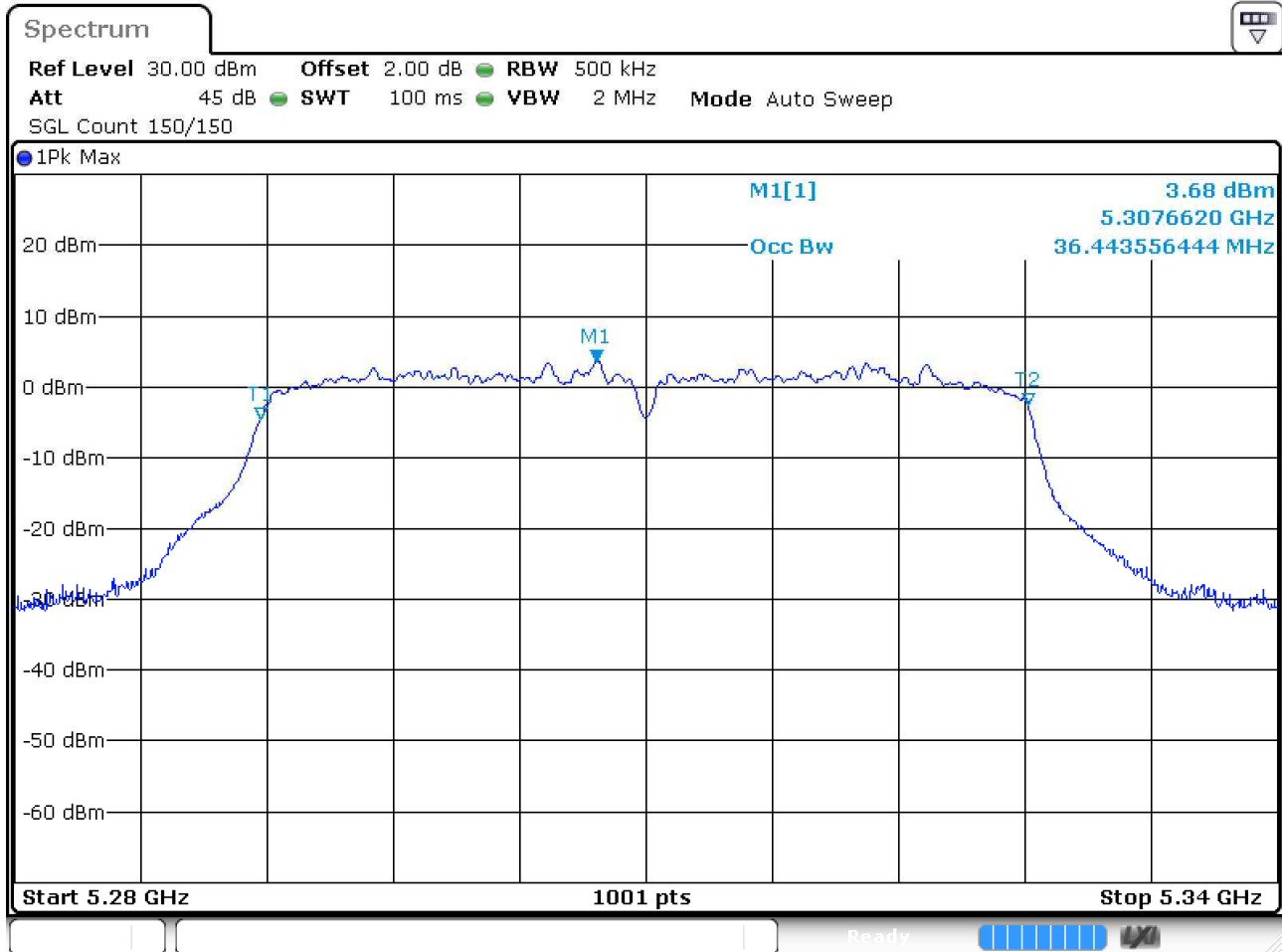
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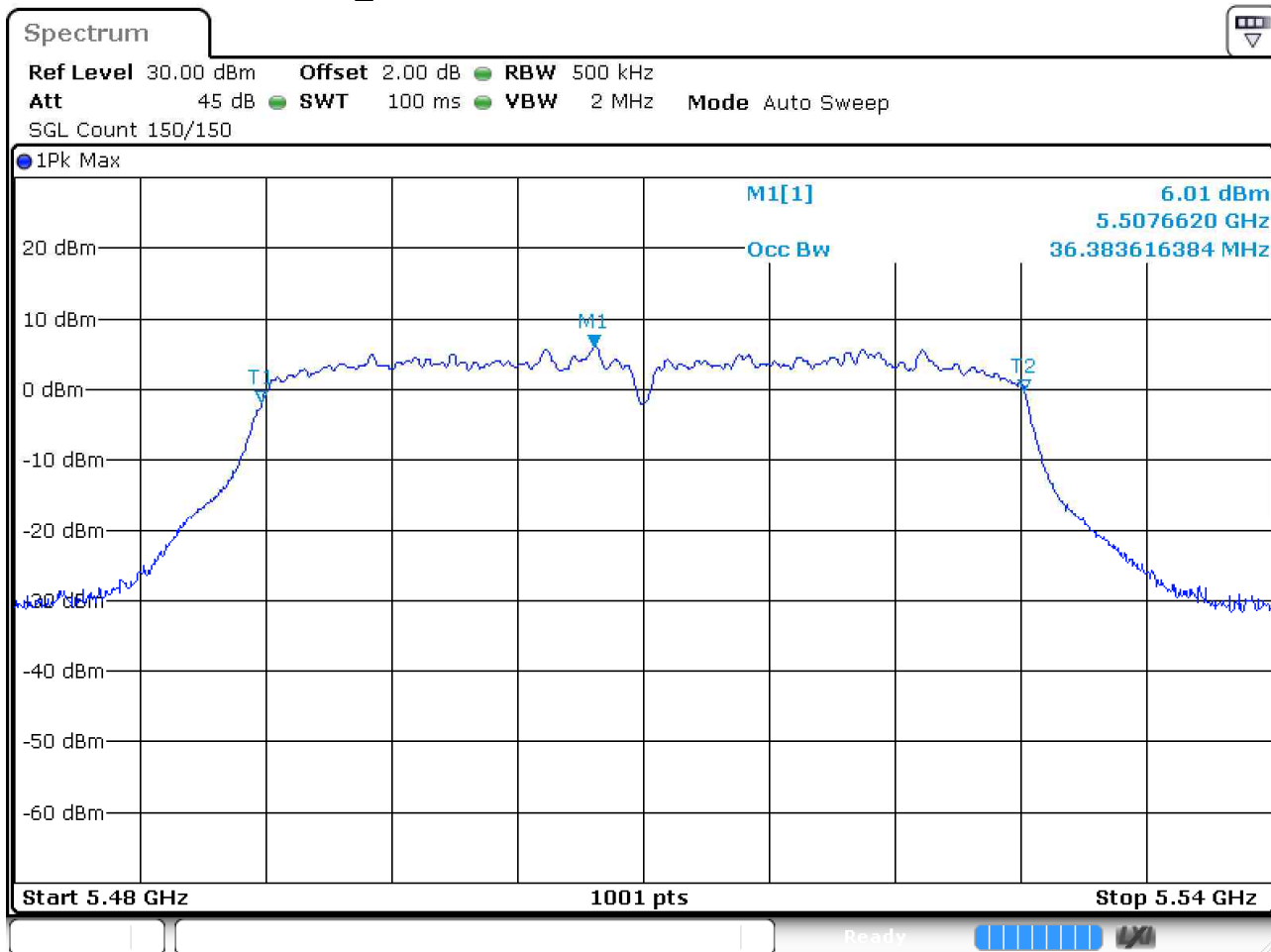
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4.7.2.46 11AC40_62 ANT 1



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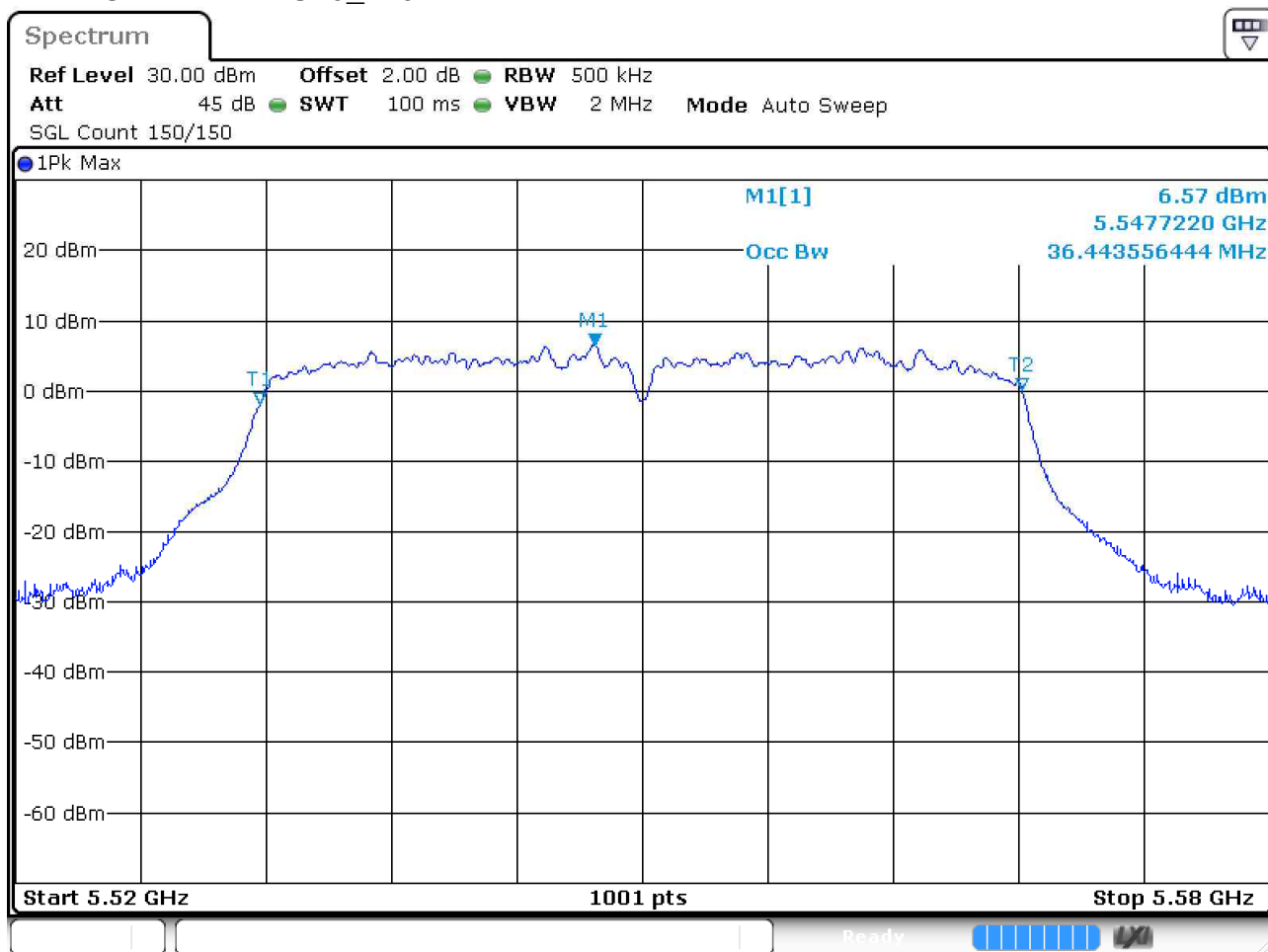
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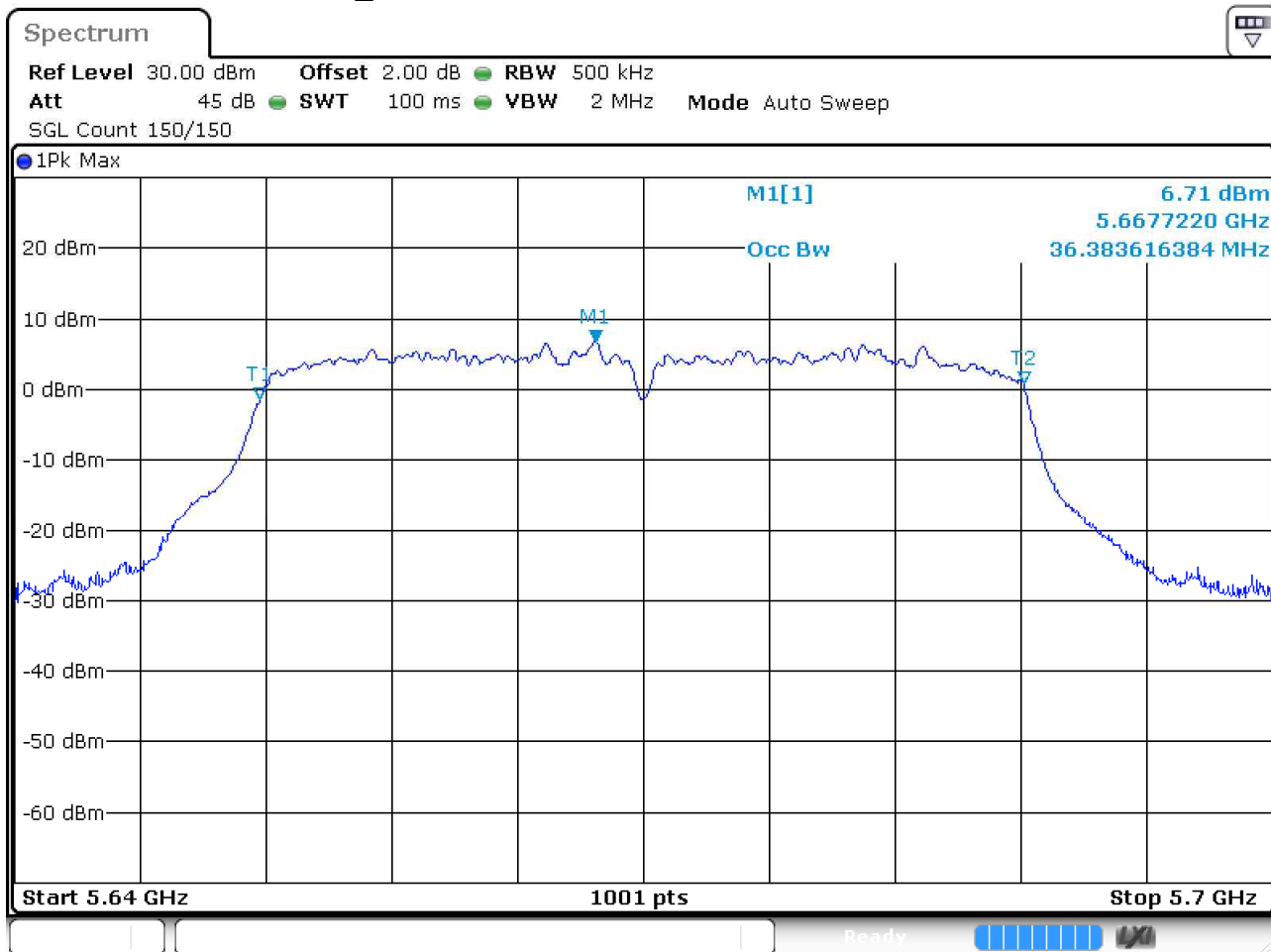
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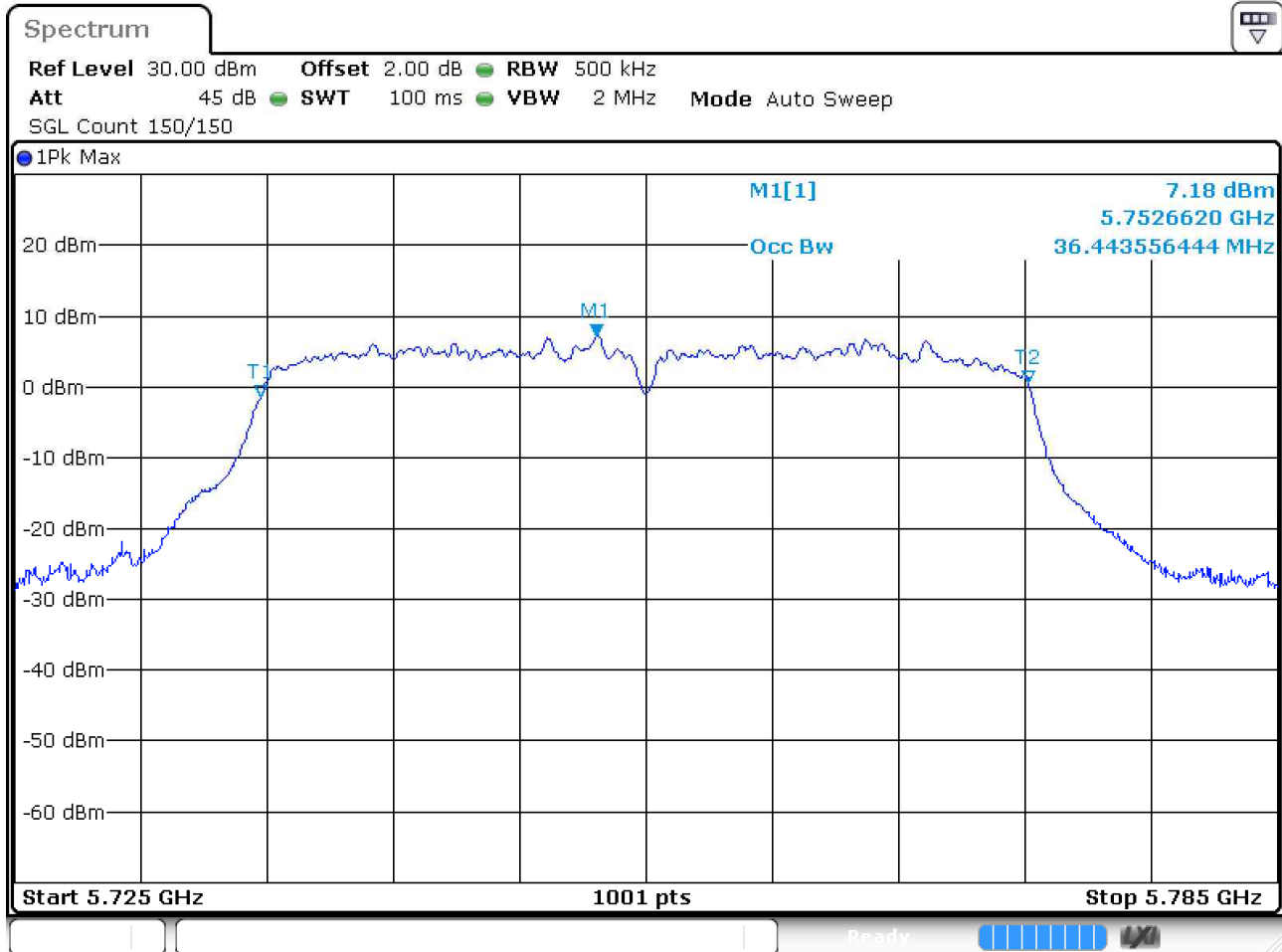
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Date: 7.JUL.2020 11:27:06



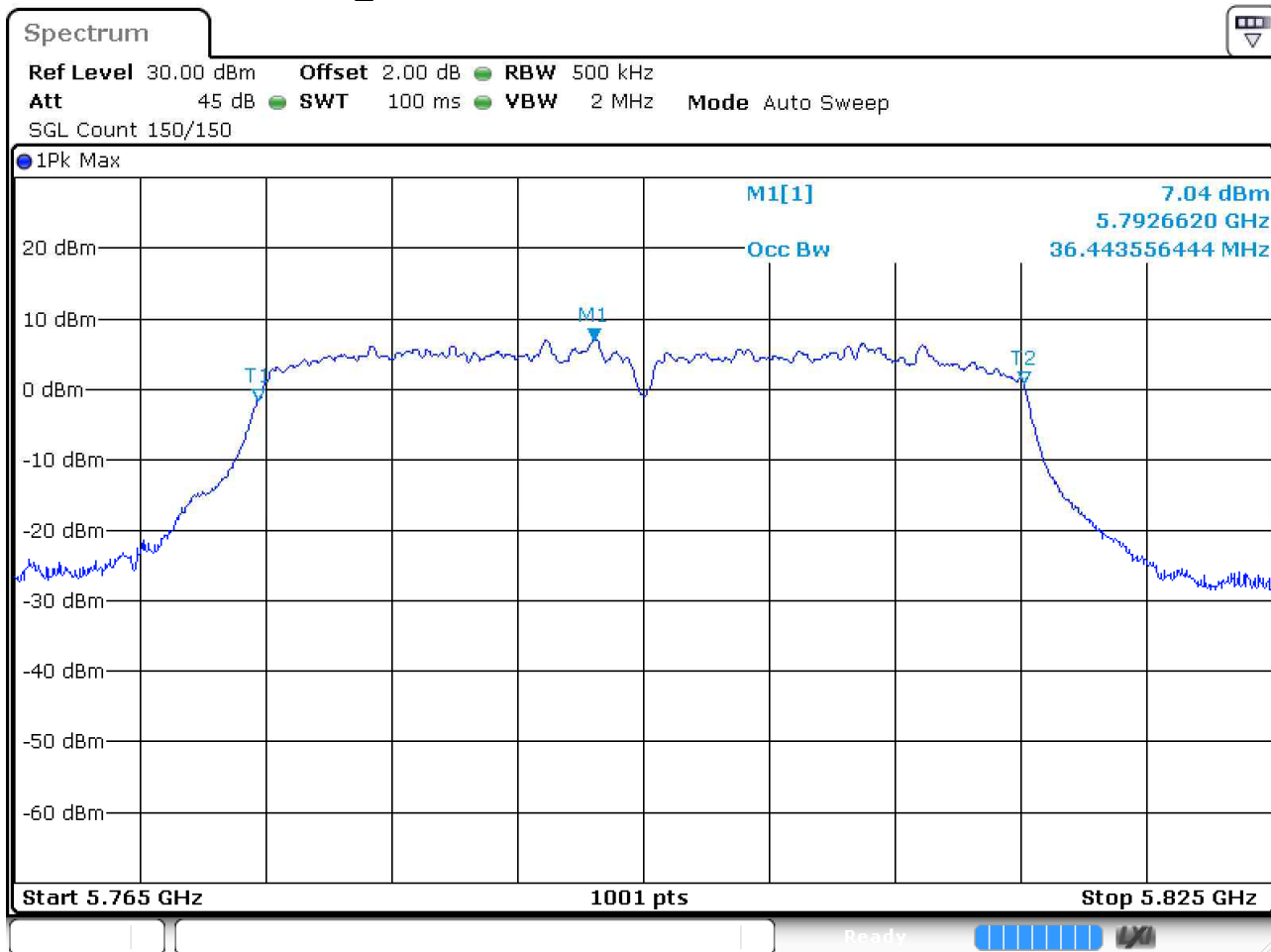
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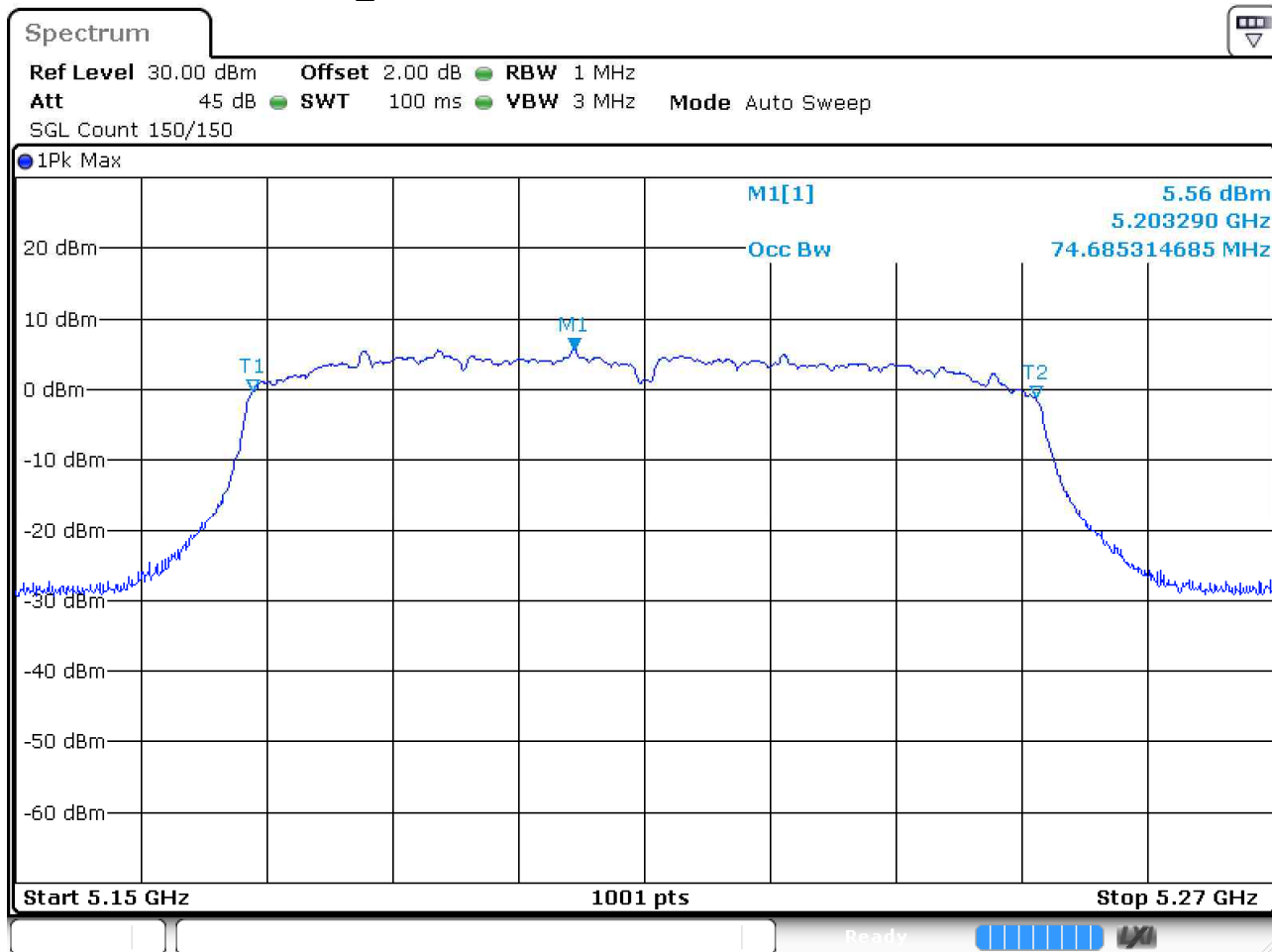
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4.7.2.51 11AC40_159 ANT 1



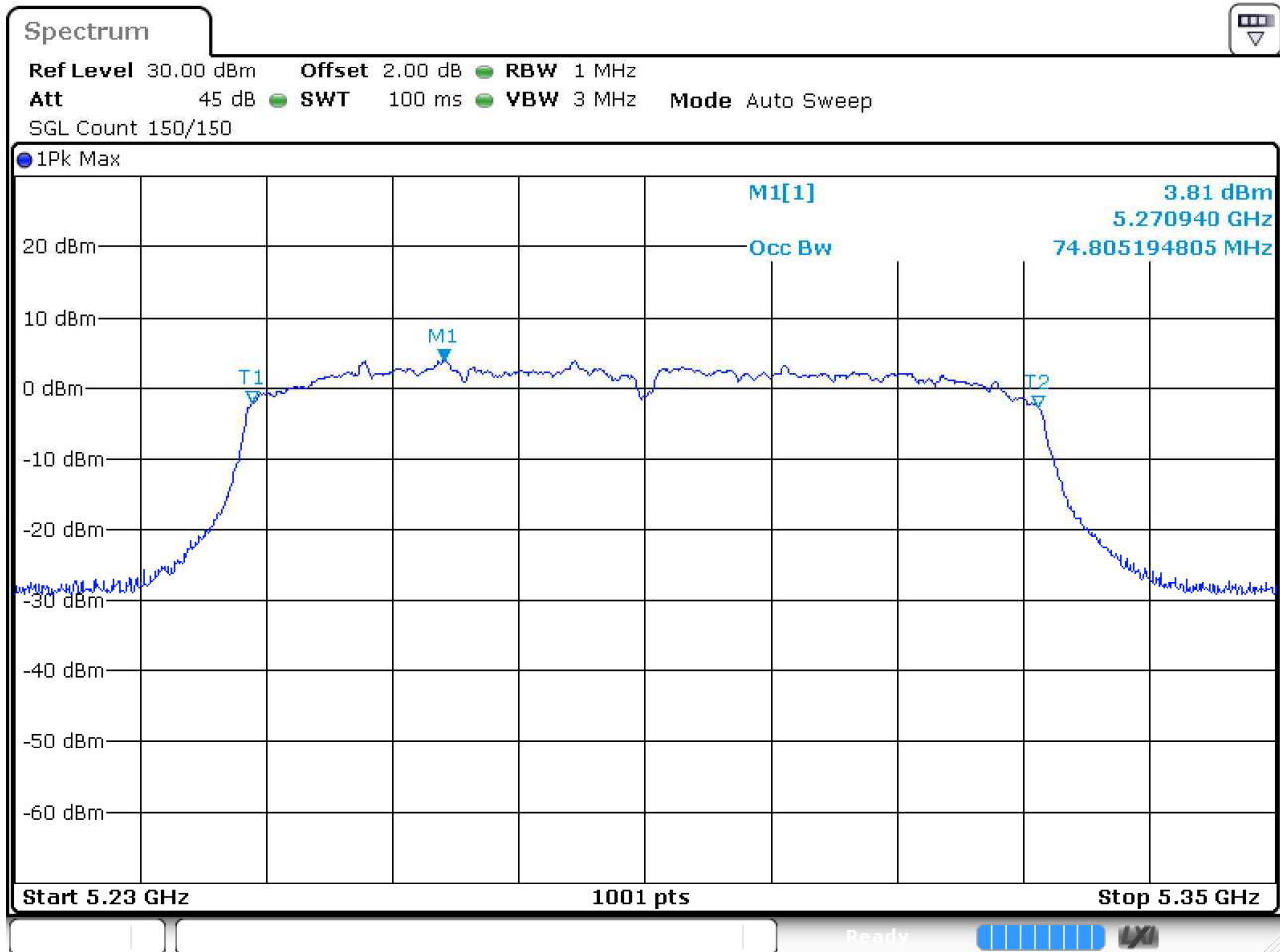
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Date: 7.JUL.2020 11:31:16



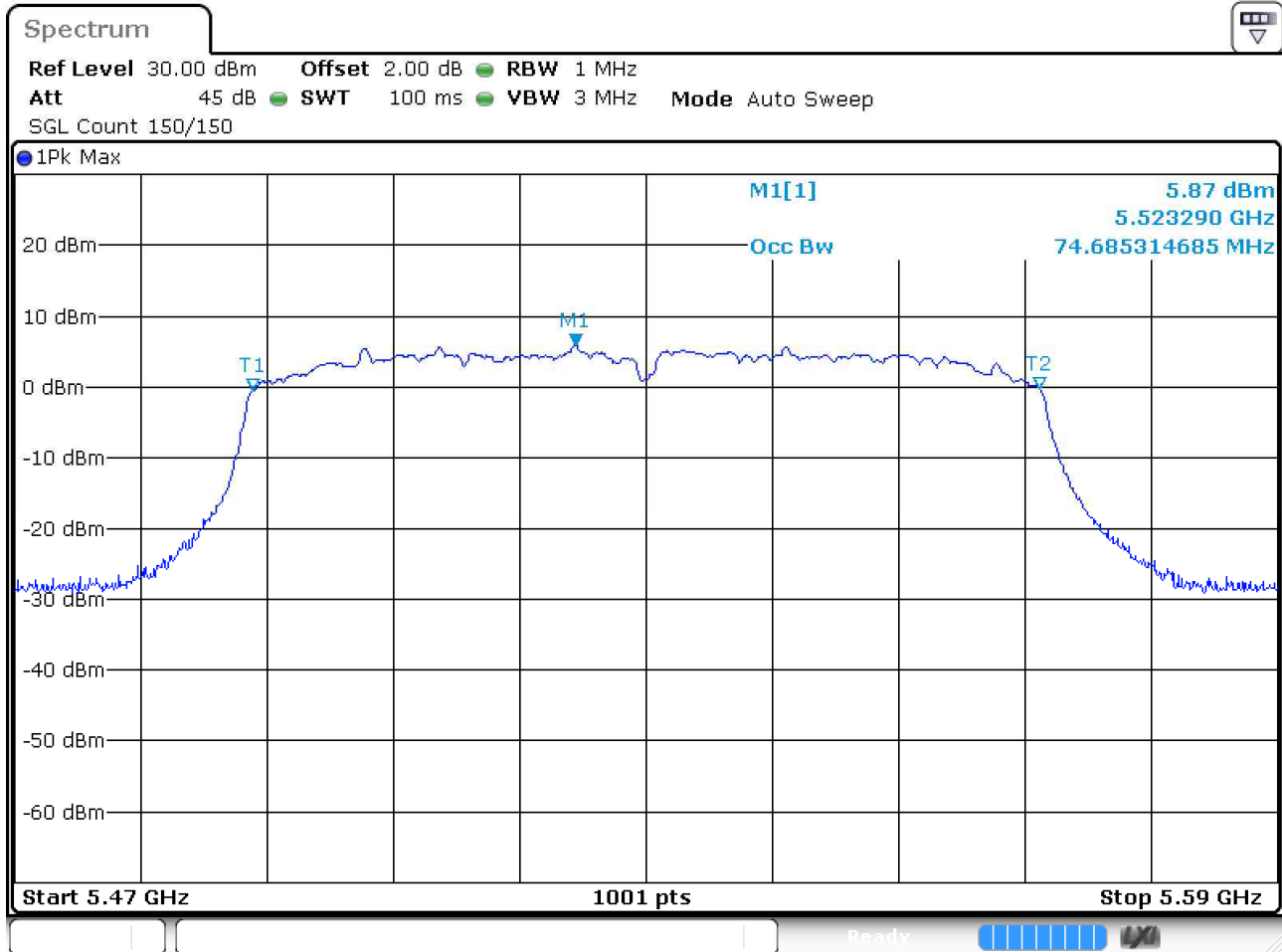
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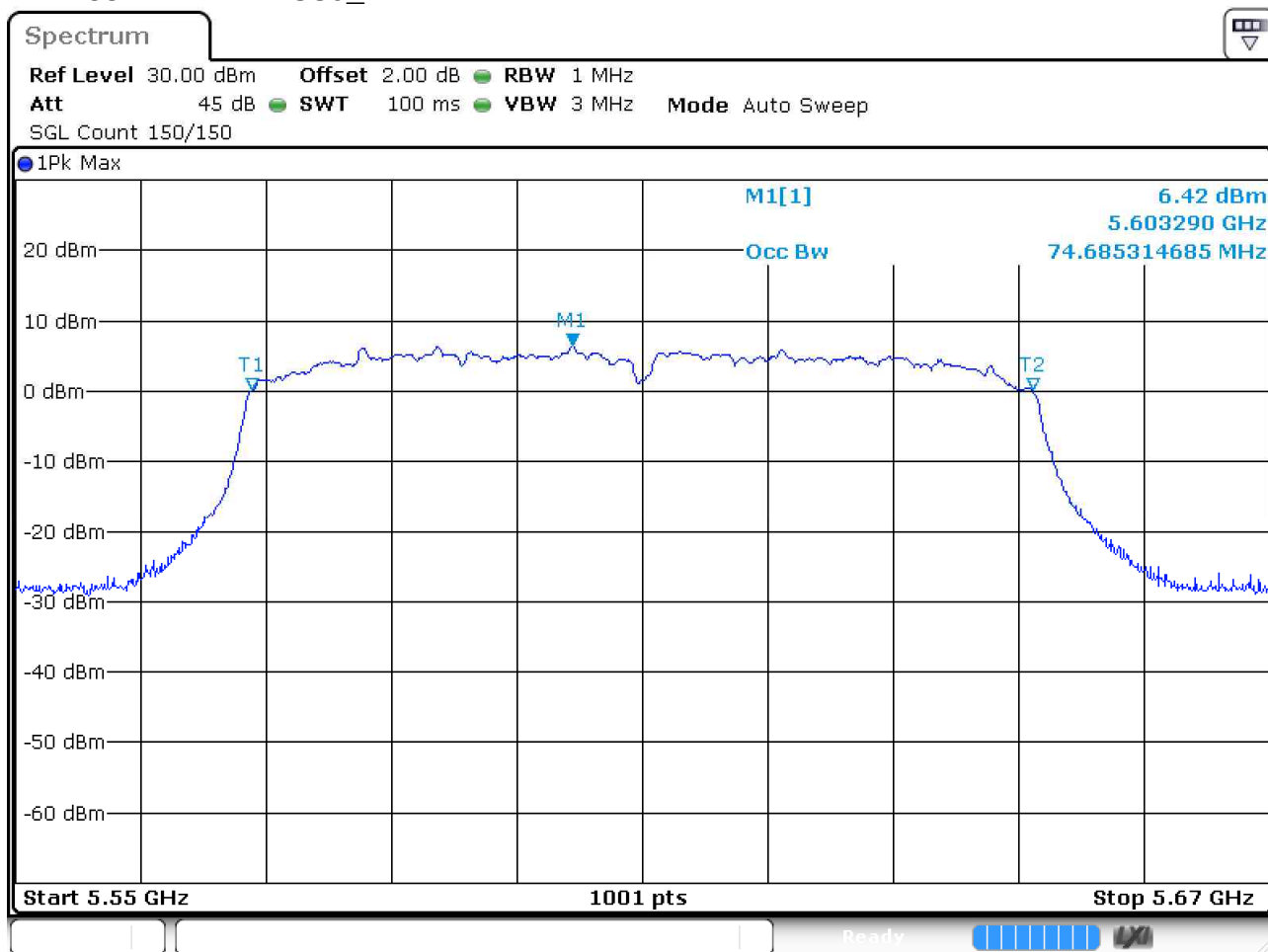
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4.7.2.54 11AC80_106 ANT 1



Date: 7.JUL.2020 11:32:42

4.7.2.55 11AC80_122 ANT 1



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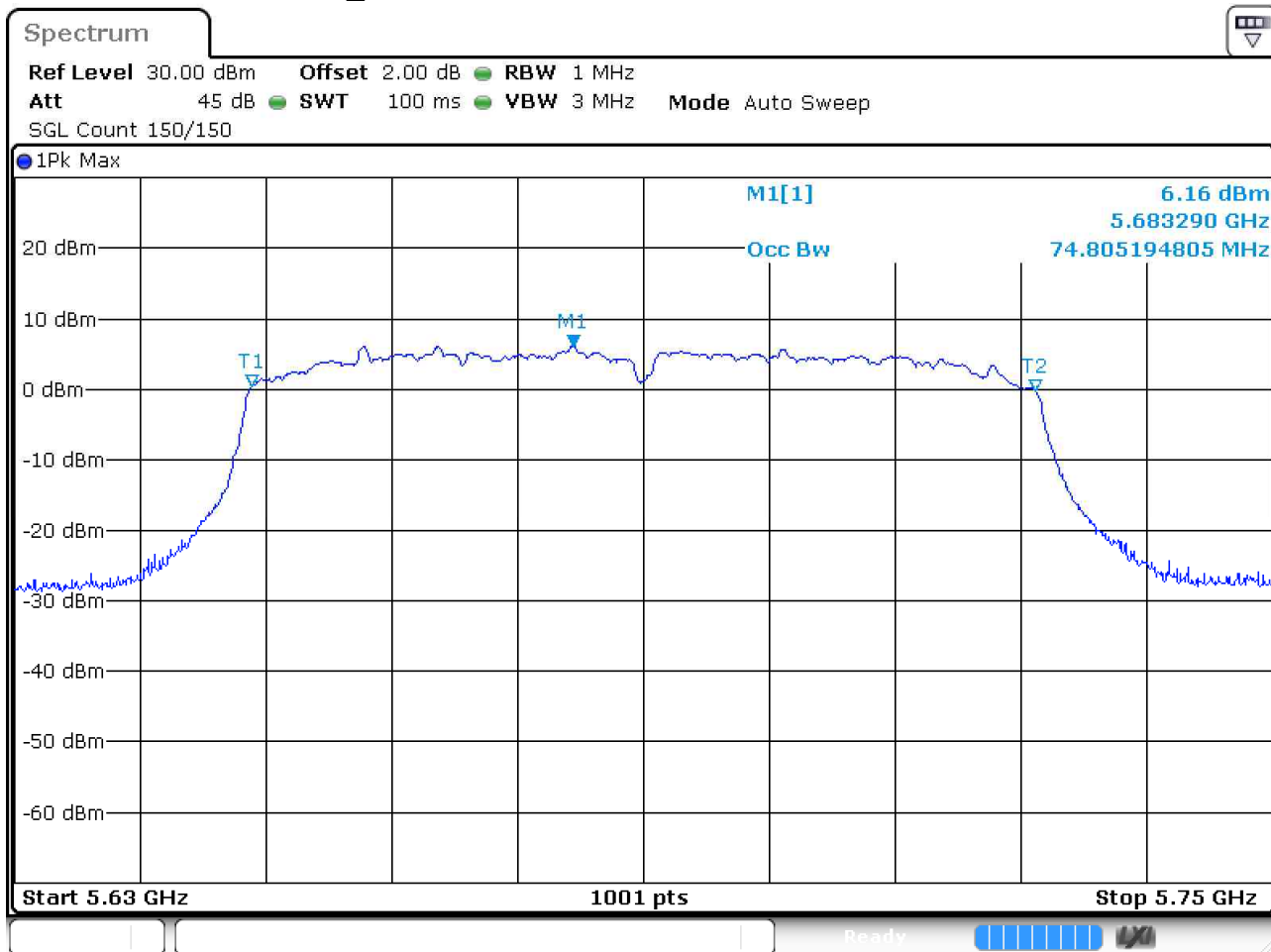
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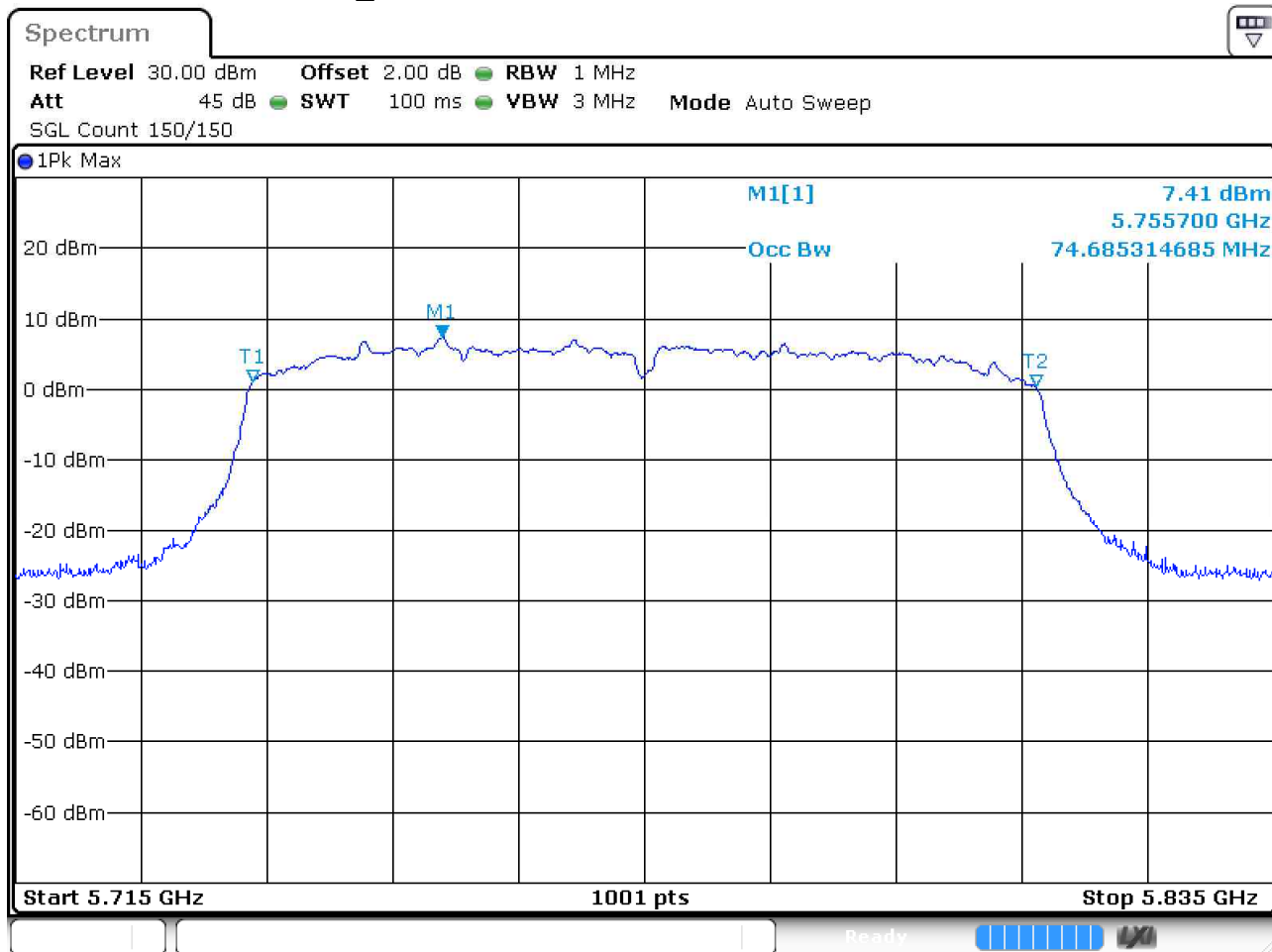
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4.7.2.56 11AC80_138 ANT 1



Date: 7.JUL.2020 11:35:14

4.7.2.57 11AC80_155 ANT 1



Date: 7.JUL.2020 11:36:35

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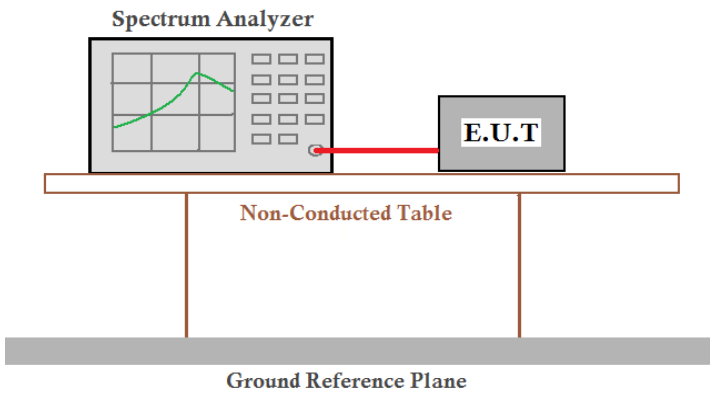
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4.8 Power Spectral Density

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	





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4.8.1 Test Results For Power Density

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm/500KHz]	Verdict
11A20	36	5180	ANT 1	5.4	PASS
	44	5220	ANT 1	5.15	PASS
	48	5240	ANT 1	5.18	PASS
	52	5260	ANT 1	4.88	PASS
	60	5300	ANT 1	3.44	PASS
	64	5320	ANT 1	3.05	PASS
	100	5500	ANT 1	3.87	PASS
	116	5580	ANT 1	5.3	PASS
	140	5700	ANT 1	5.07	PASS
	149	5745	ANT 1	2.34	PASS
	165	5825	ANT 1	2.23	PASS
11N20	36	5180	ANT 1	3.25	PASS
	44	5220	ANT 1	3.04	PASS
	48	5240	ANT 1	2.67	PASS
	52	5260	ANT 1	-1.18	PASS
	60	5300	ANT 1	1.25	PASS
	64	5320	ANT 1	0.72	PASS
	100	5500	ANT 1	1.81	PASS
	116	5580	ANT 1	2.91	PASS
	140	5700	ANT 1	3.1	PASS
	149	5745	ANT 1	0.2	PASS
	165	5825	ANT 1	-0.07	PASS
11N40	38	5190	ANT 1	-1.29	PASS
	46	5230	ANT 1	-1.68	PASS
	54	5270	ANT 1	-2.32	PASS
	62	5310	ANT 1	-3.58	PASS
	102	5510	ANT 1	-2.65	PASS
	110	5550	ANT 1	-2.07	PASS
	134	5670	ANT 1	-1.58	PASS
	151	5755	ANT 1	-4.07	PASS



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	159	5795	ANT 1	-3.7	PASS
11AC20	36	5180	ANT 1	3.47	PASS
	44	5220	ANT 1	3.44	PASS
	48	5240	ANT 1	3.19	PASS
	52	5260	ANT 1	2.72	PASS
	60	5300	ANT 1	1.56	PASS
	64	5320	ANT 1	0.95	PASS
	100	5500	ANT 1	1.9	PASS
	116	5580	ANT 1	3.1	PASS
	140	5700	ANT 1	3.14	PASS
	149	5745	ANT 1	0.2	PASS
	165	5825	ANT 1	0.75	PASS
11AC40	38	5190	ANT 1	-1.28	PASS
	46	5230	ANT 1	-1.91	PASS
	54	5270	ANT 1	-2.55	PASS
	62	5310	ANT 1	-3.72	PASS
	102	5510	ANT 1	-2.77	PASS
	110	5550	ANT 1	-2.14	PASS
	134	5670	ANT 1	-1.57	PASS
	151	5755	ANT 1	-4.1	PASS
	159	5795	ANT 1	-3.59	PASS
11AC80	42	5210	ANT 1	-5.76	PASS
	58	5290	ANT 1	-7.29	PASS
	106	5530	ANT 1	-6.8	PASS
	122	5610	ANT 1	-6.24	PASS
	138	5690	ANT 1	-6.16	PASS
	155	5775	ANT 1	-9.33	PASS



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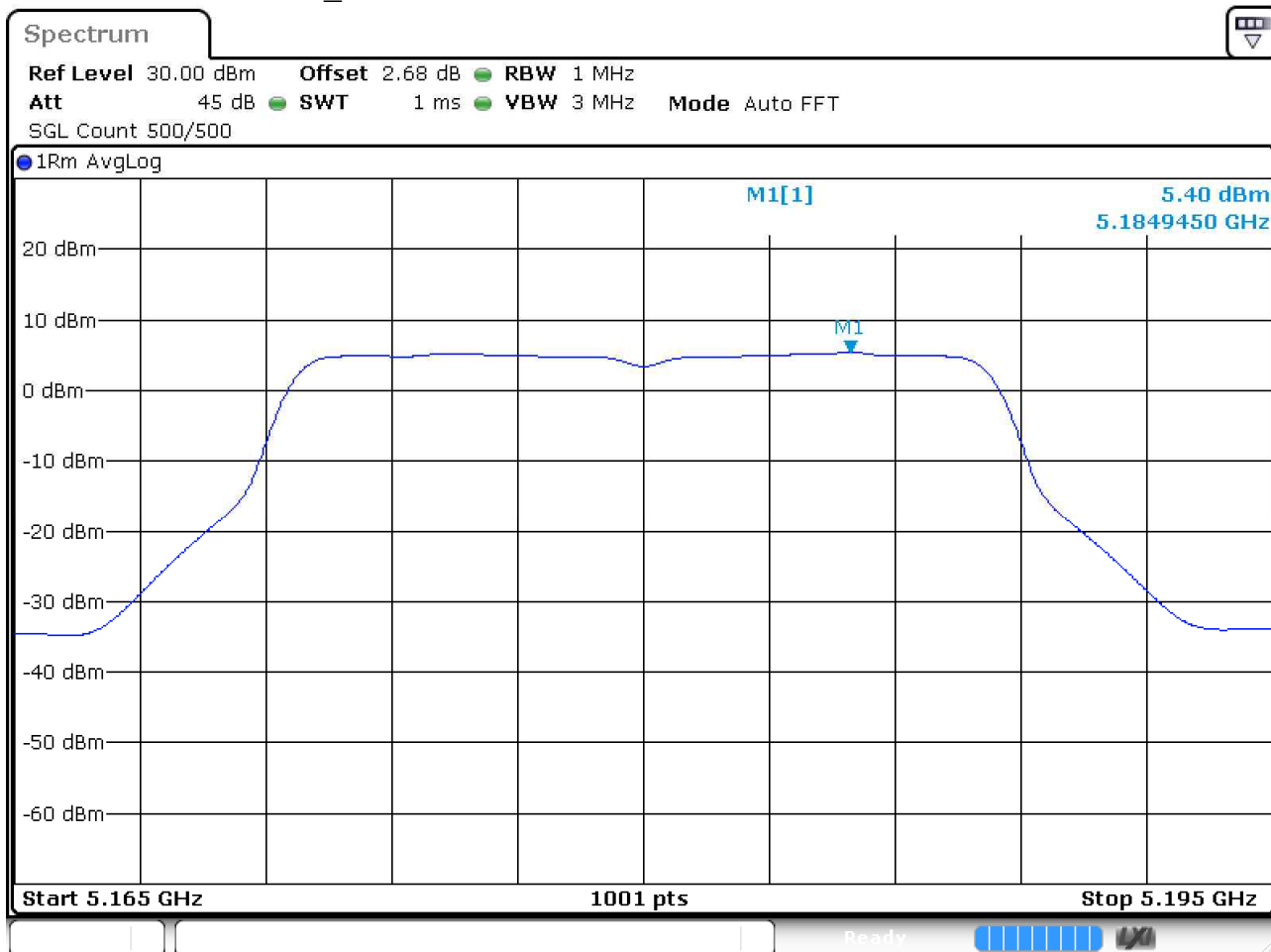
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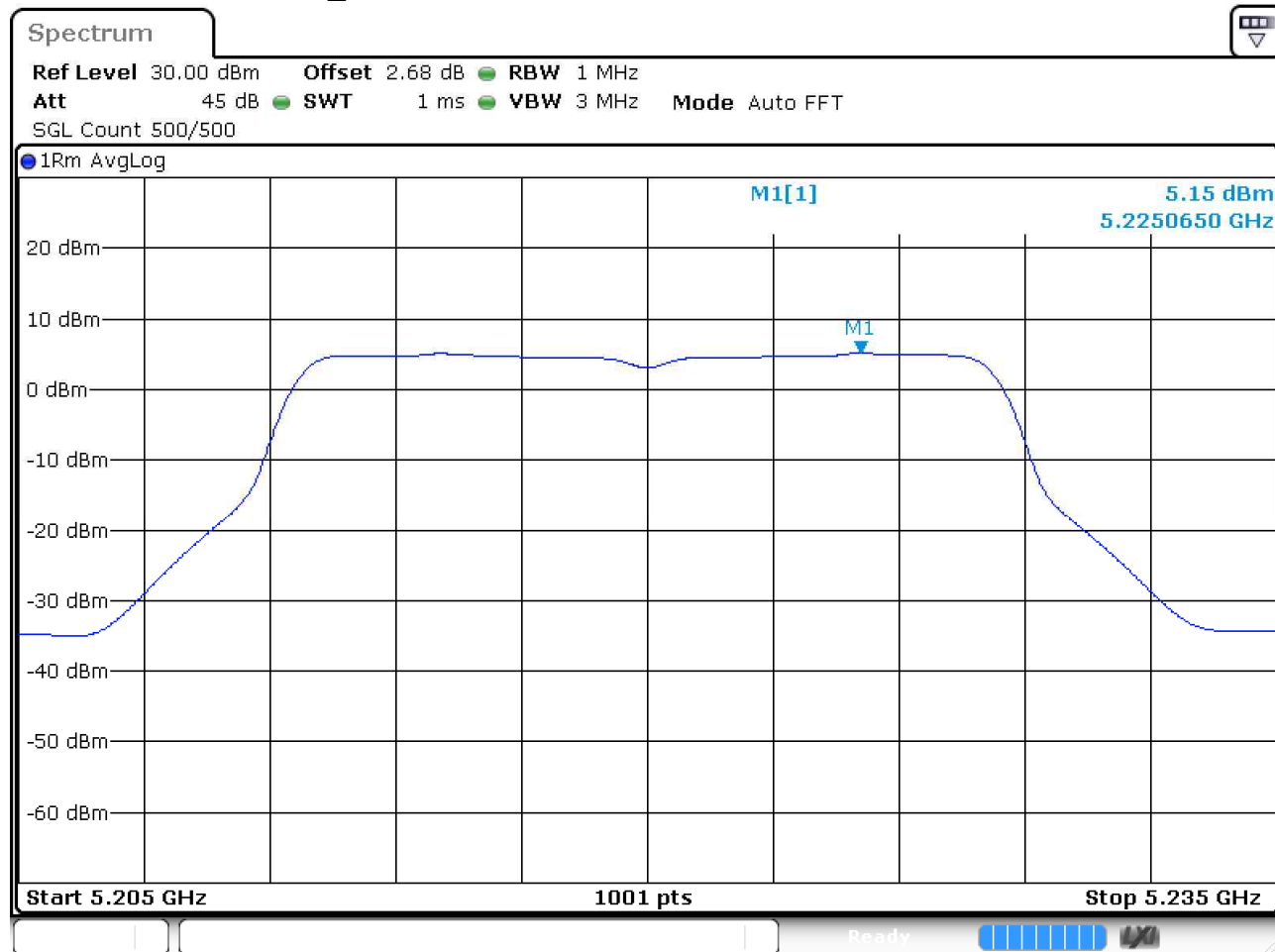
4.8.2 Test plots For Power Density

4.8.2.1 11A20_36 ANT 1



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4.8.2.2 11A20_44 ANT 1



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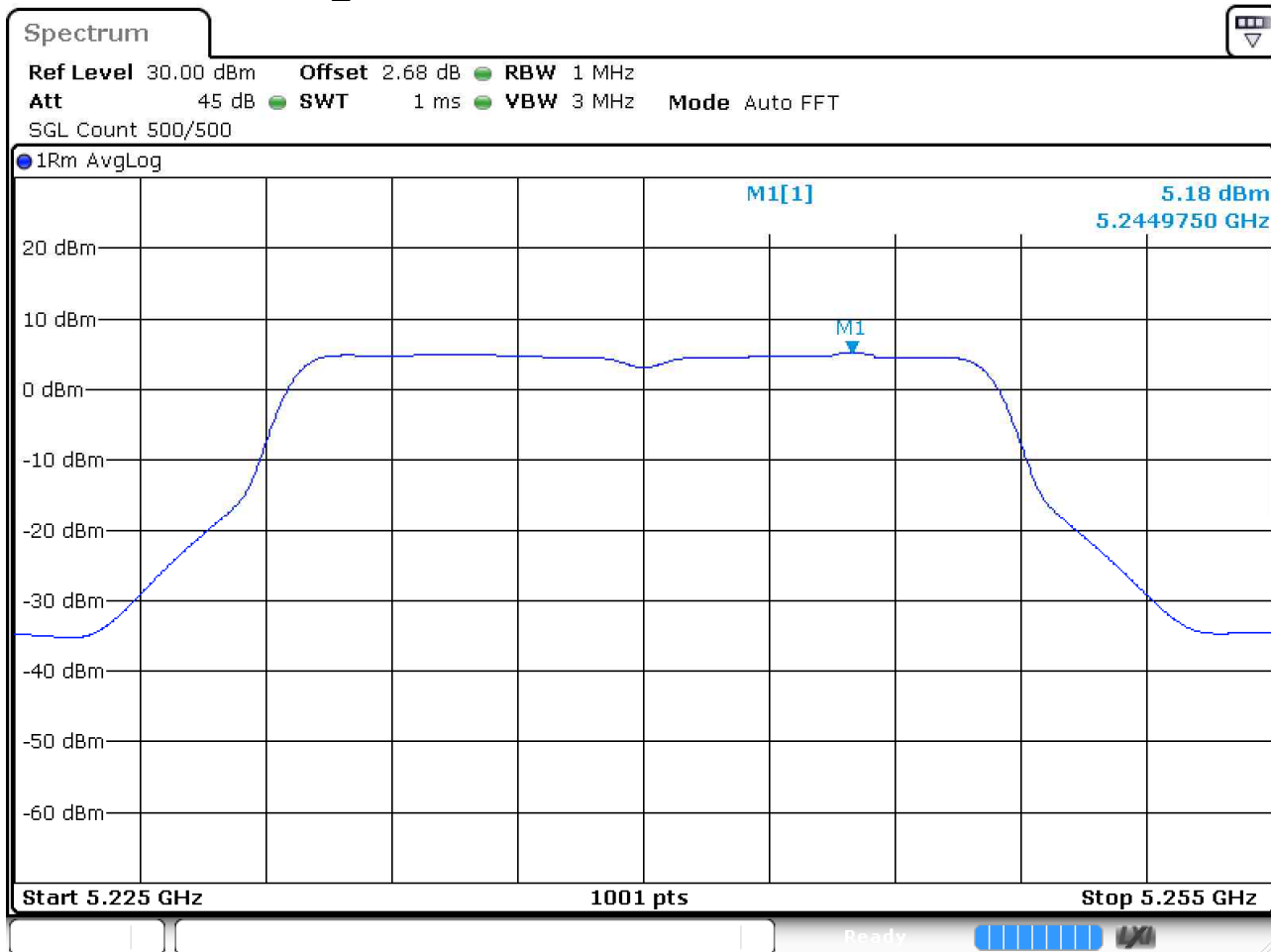


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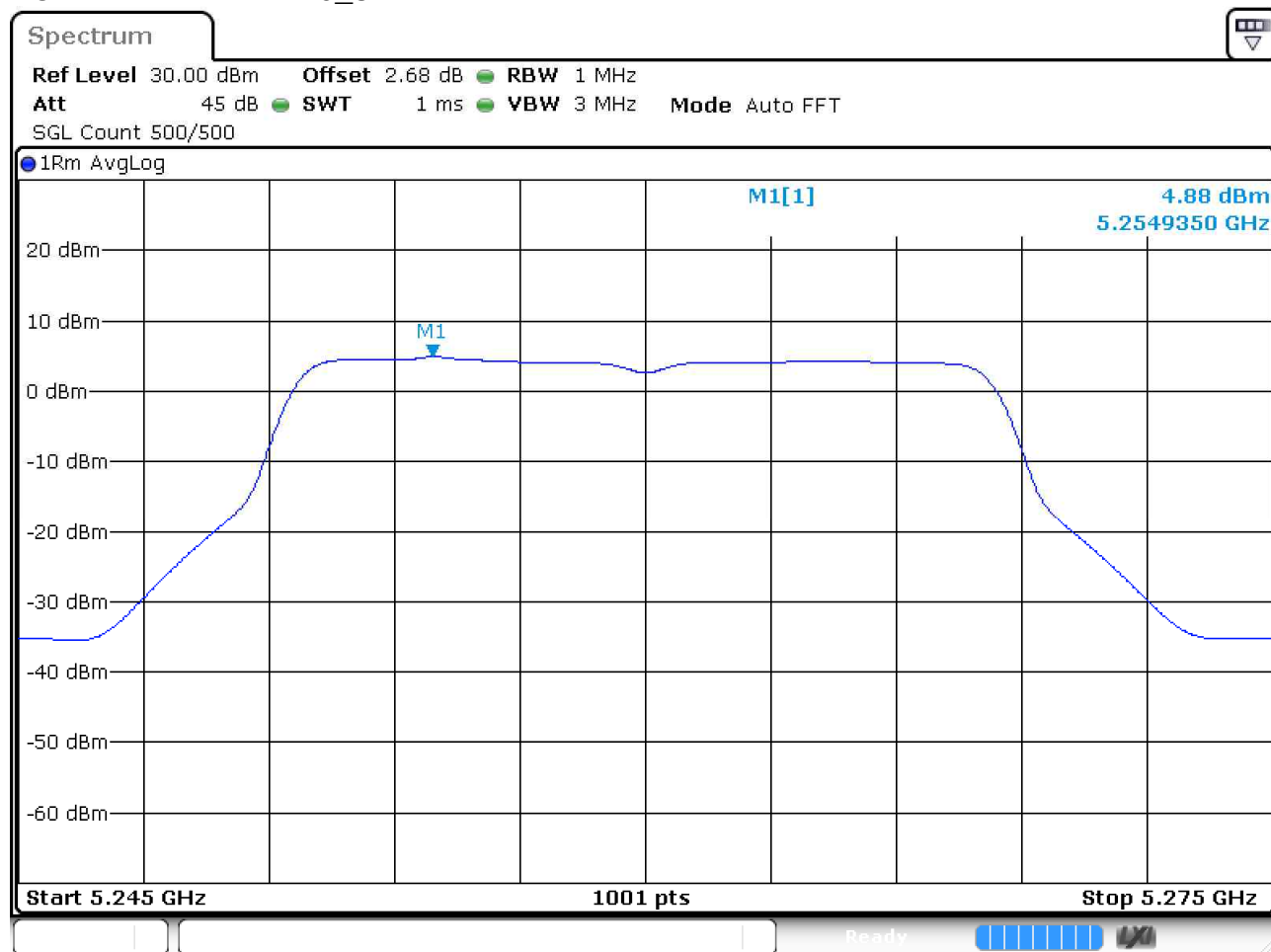
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4.8.2.3 11A20_48 ANT 1



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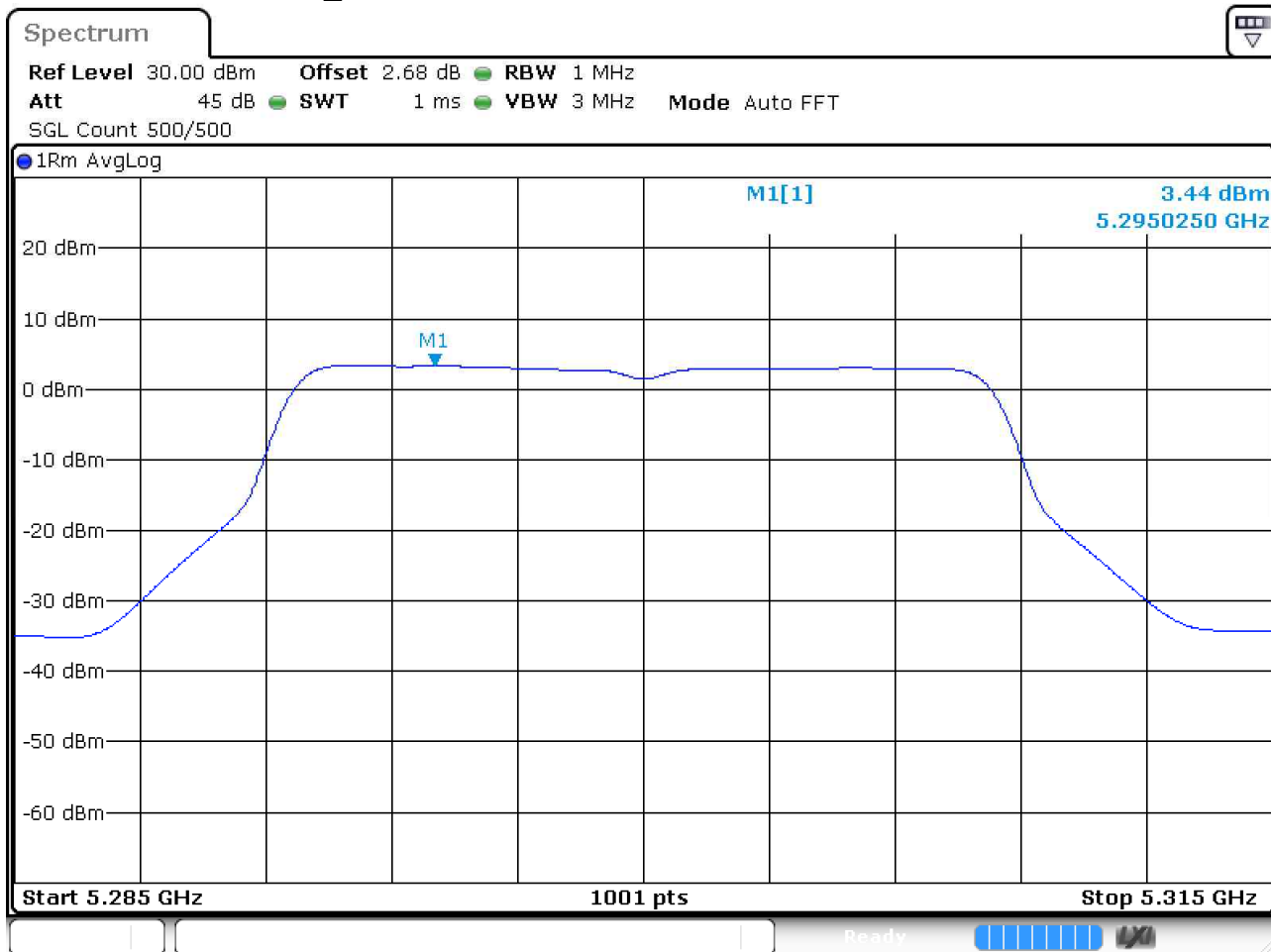
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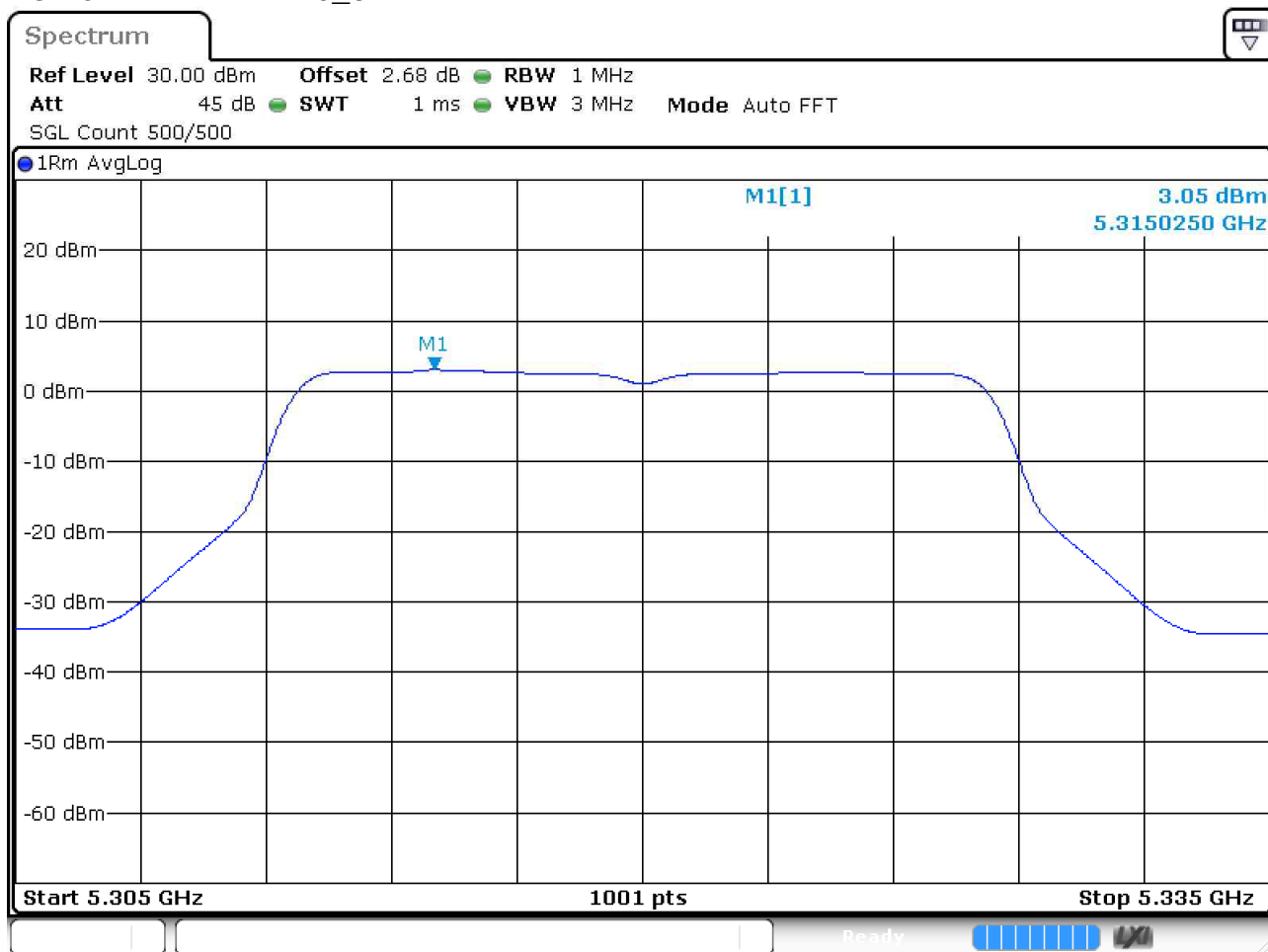
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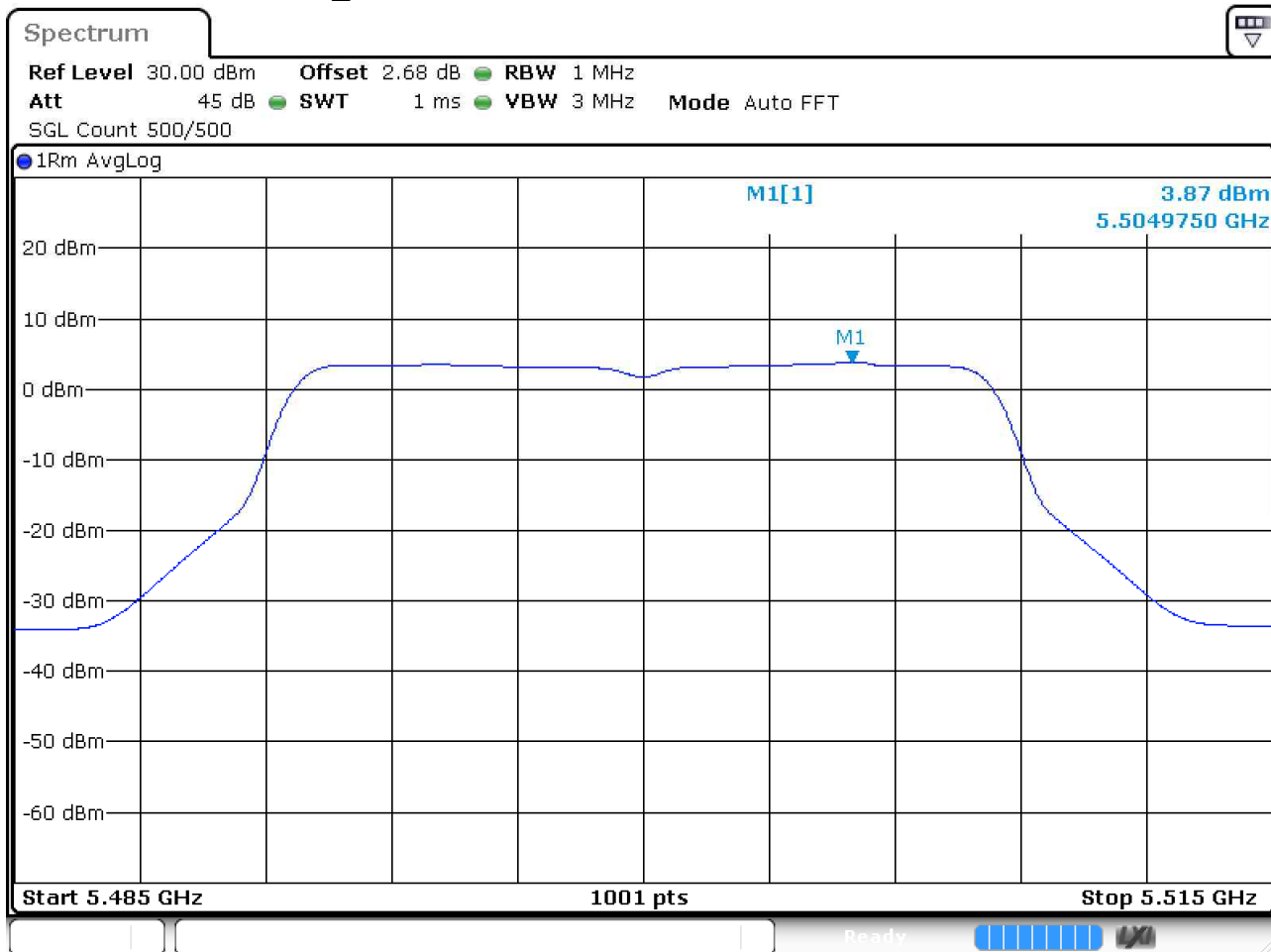
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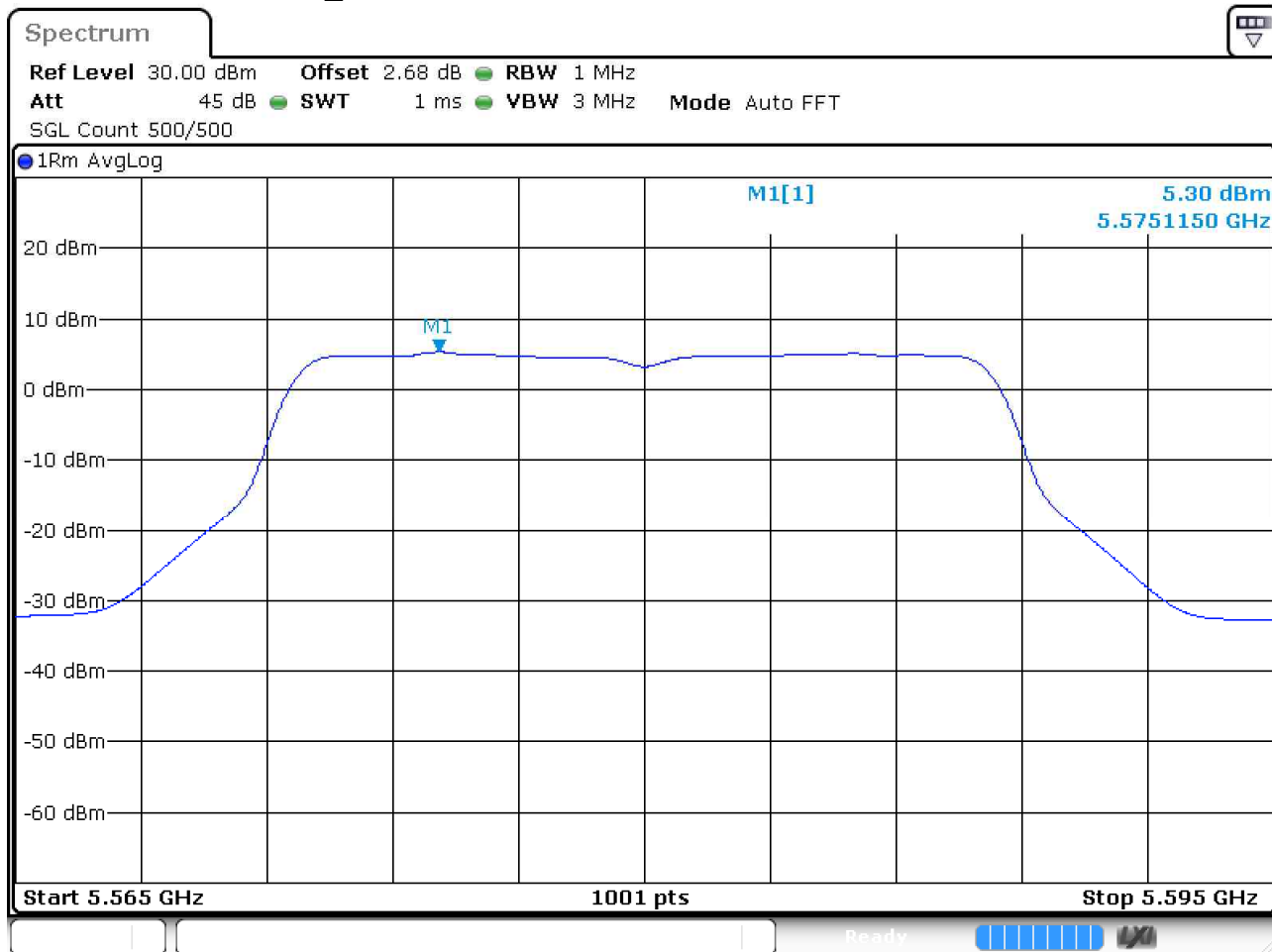
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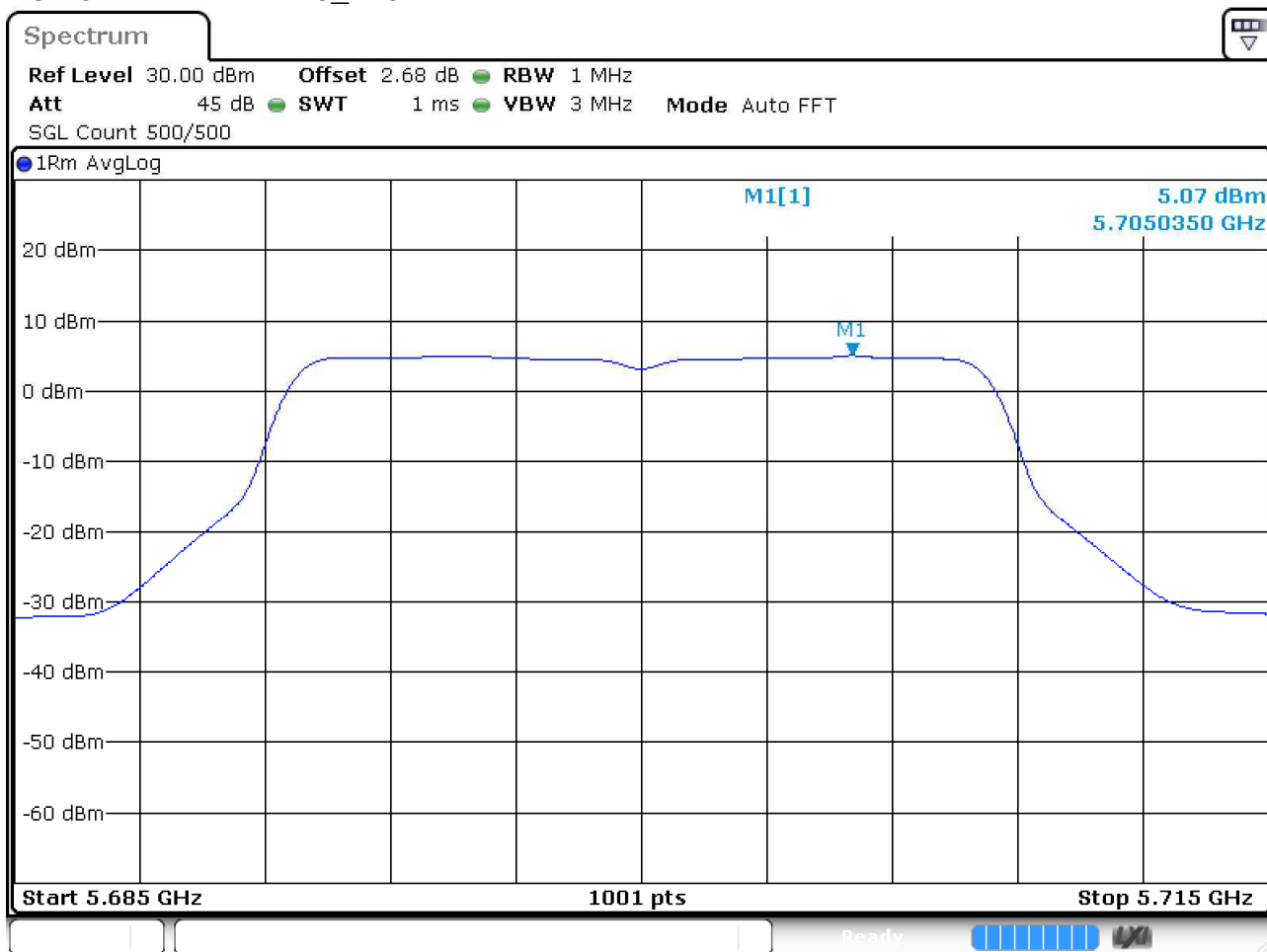
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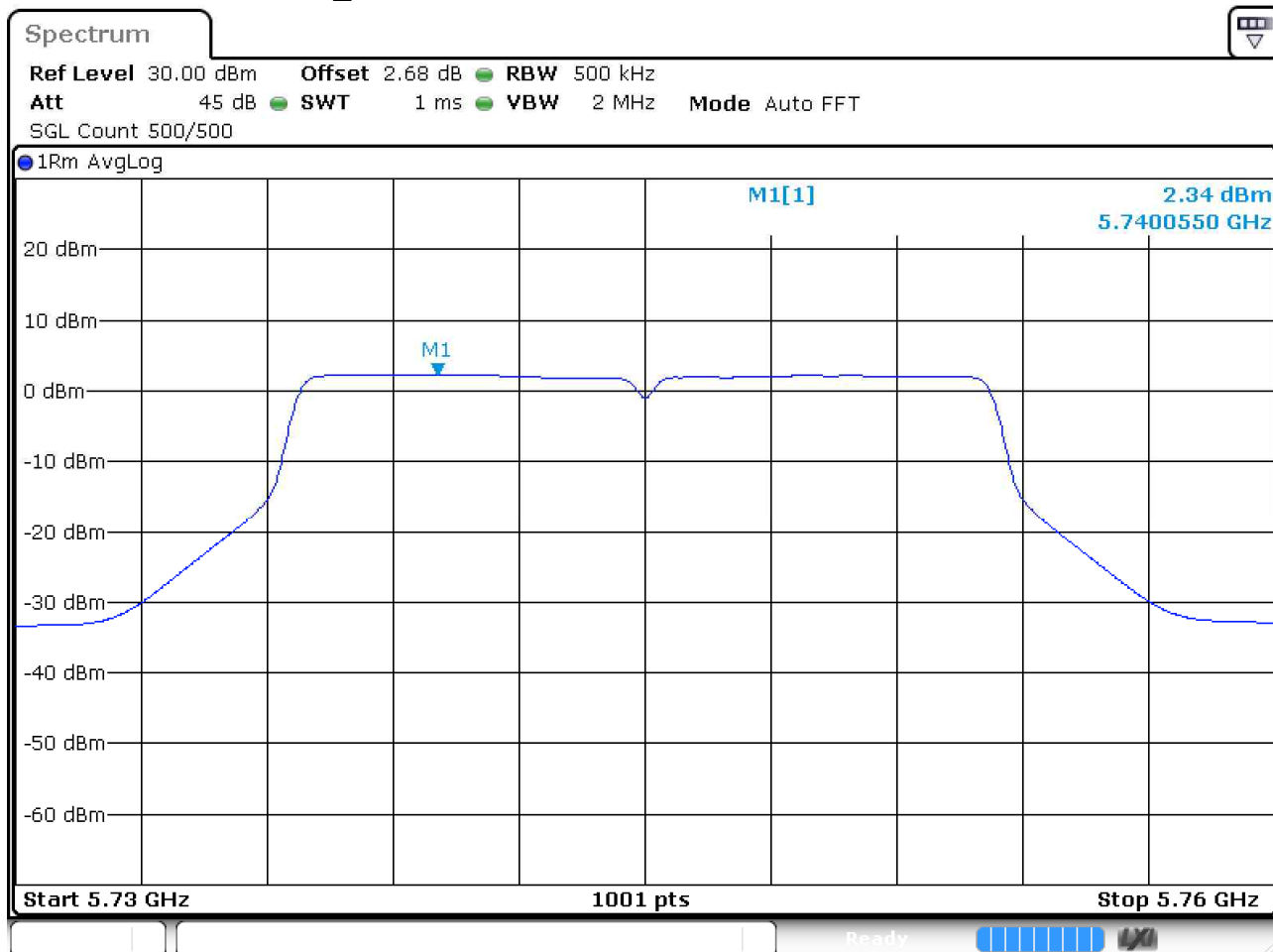
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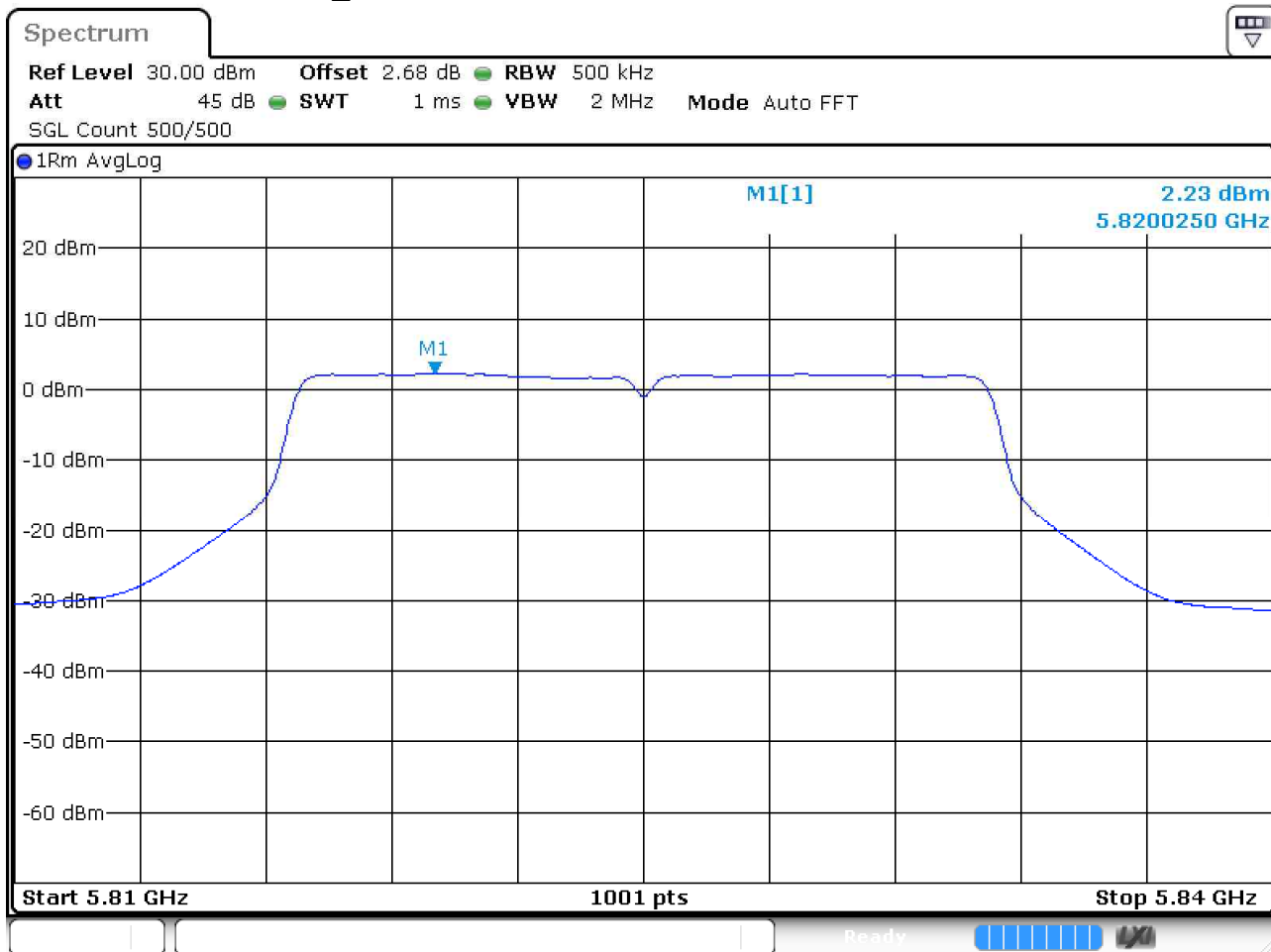
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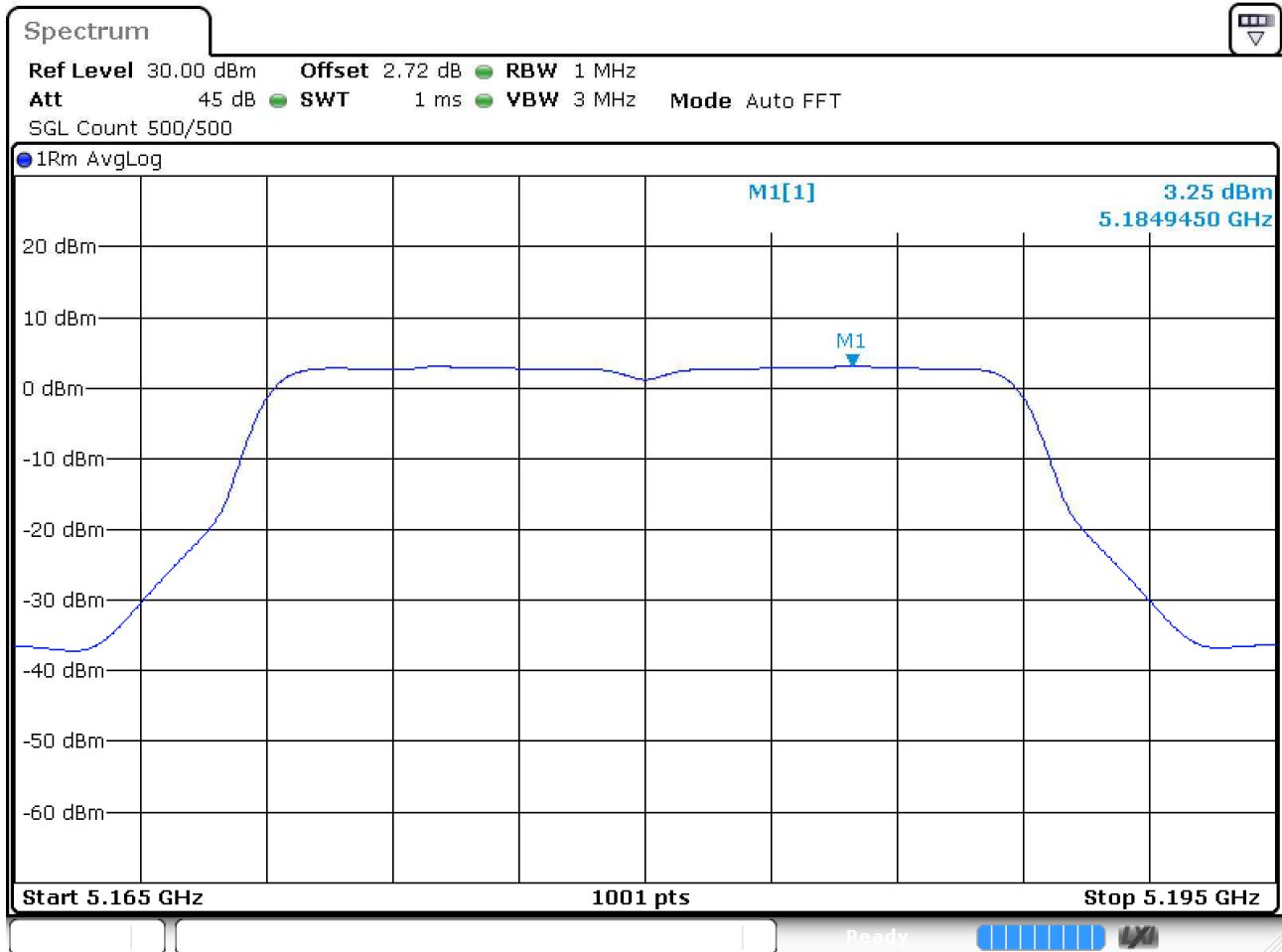
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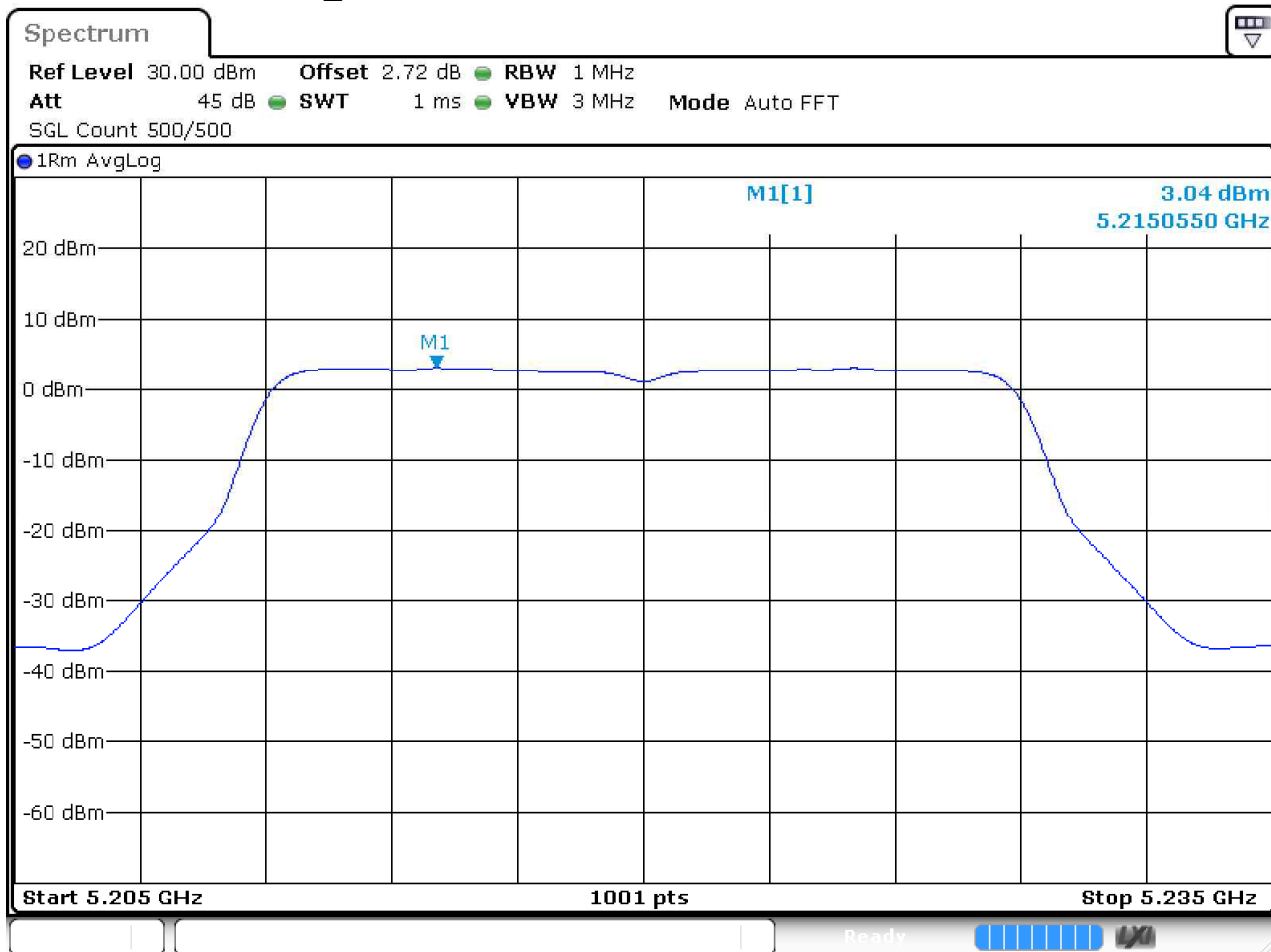
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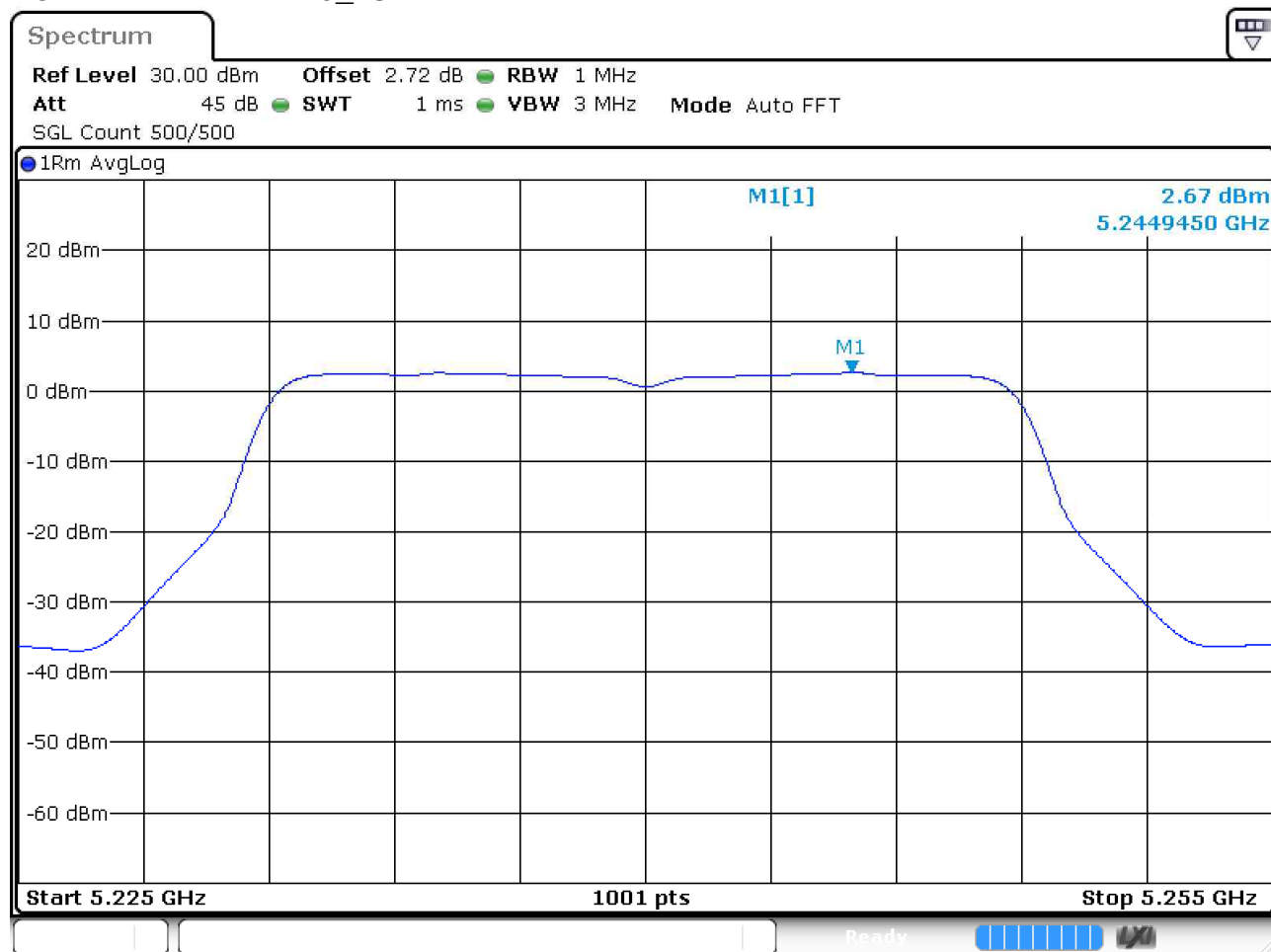
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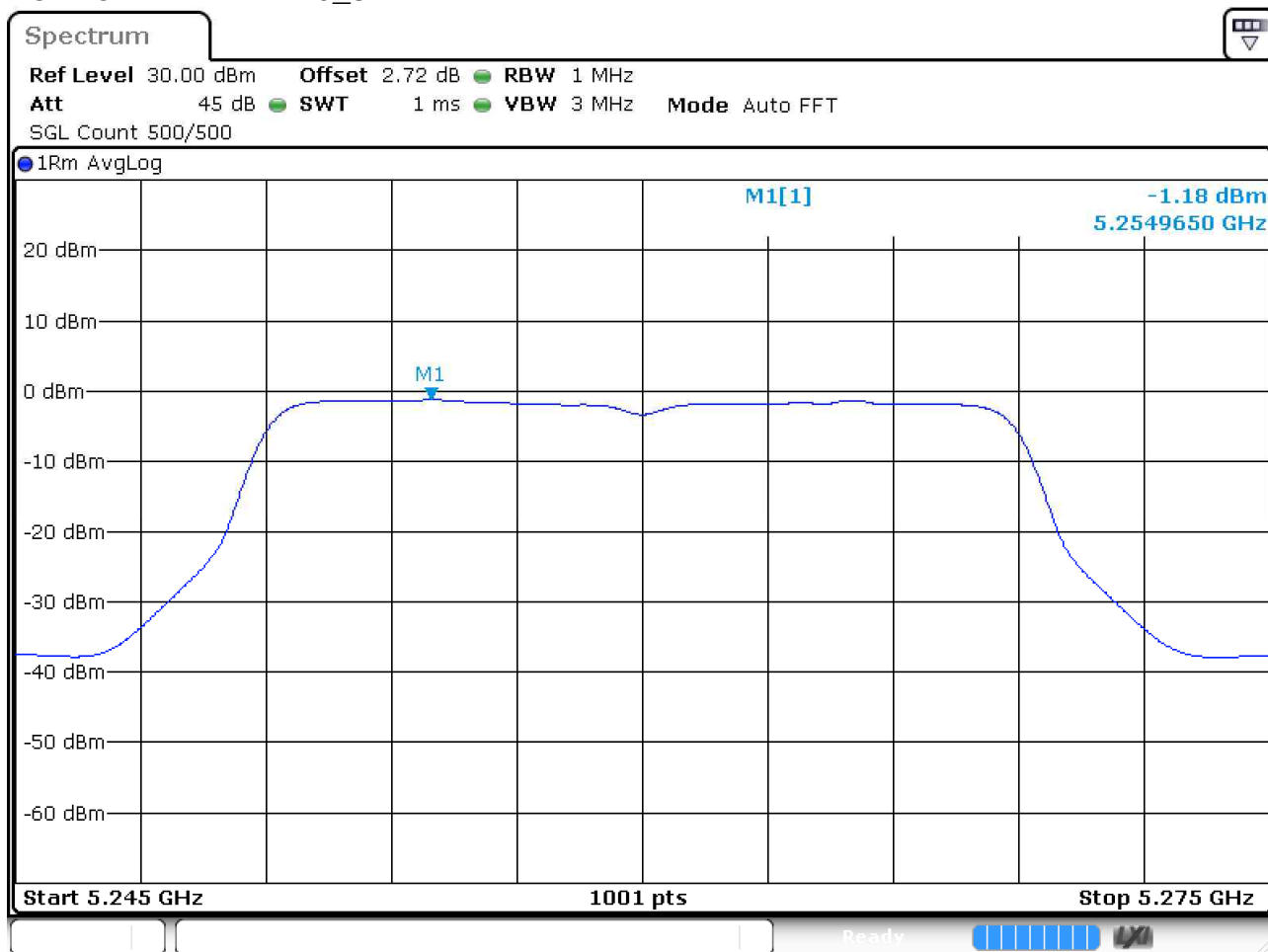
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4.8.2.15

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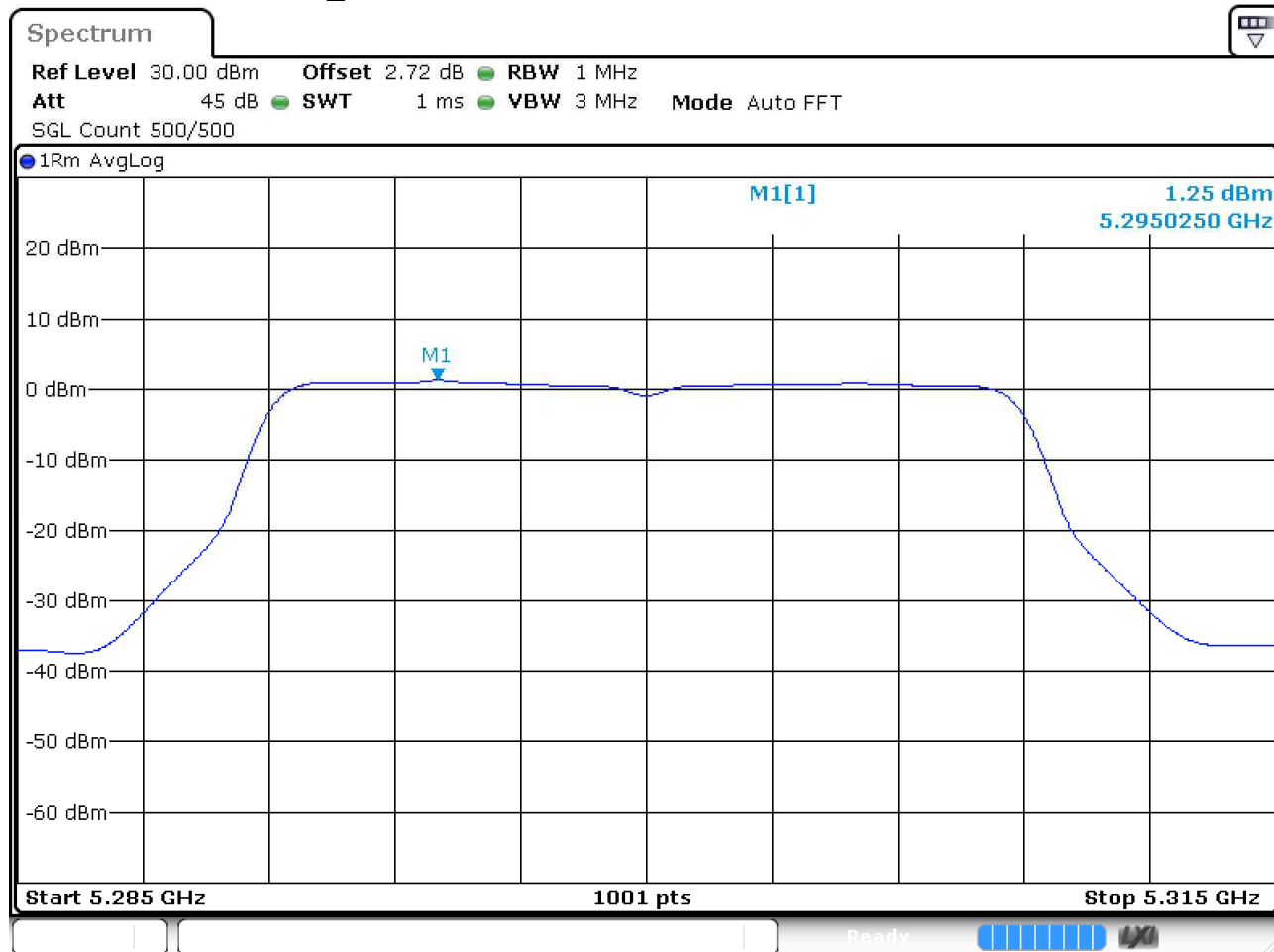
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