



## FCC TEST REPORT

**Application No.:** ZR/2020/80006  
**Applicant:** Motorola Mobility LLC  
**Address of Applicant:** 222 W Merchandise Mart Plaza, Suite 1800, Chicago IL 60654, USA  
**Manufacturer:** Motorola Mobility LLC  
**Address of Manufacturer:** 222 W Merchandise Mart Plaza, Suite 1800, Chicago IL 60654, USA  
**EUT Description:** Mobile Phone  
**Model No.:** XT2091-4  
**Trade Mark:** Motorola  
**FCC ID:** IHDT56ZK1  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR FCC Part 15, Subpart C  
 47 CFR FCC Part 15, Subpart E  
 KDB 789033 D02 General UNII Test Procedures New Rules v02  
 FCC KDB 558074 D01 DTS Meas Guidance v0502  
**Test Method:** KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02  
 KDB 905462 D03 Client Without DFS New Rules v01r02  
 ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices  
**Date of Receipt:** 2020/9/2  
**Date of Test:** 2020/9/3to 2020/9/21  
**Date of Issue:** 2021/5/15

<b>Test Result:</b>	<b>PASS *</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derek Yang  
Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/9/27		Original
02		2021/5/15	Kevin Lan	1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list

\*This test report supersedes the original report (report No.: ZR/2020/8000605, issue date: 2020-9-27), original report shall be invalid.

<b>Authorized for issue by:</b>	
<b>Prepared By</b>	<i>Kevin Lan</i> <hr/> <b>(Kevin.Lan) /Engineer</b>
<b>Checked By</b>	<i>David Chen</i> <hr/> <b>(David Chen) /Reviewer</b>



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## 2 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict	Test Lab*
Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.5 Clause 4.6	Pass	A
	5250-5350	15.403(i) 15.407(a)(2)				
	5470-5725	15.403(i) 15.407(a)(2)				
	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.			
Occupied Bandwidth	5150-5250	KDB 789033 D02§ D	No limit.	Clause 4.3	Pass	A
	5250-5350					
	5470-5725					
	5725-5850					
Duty Cycle	5150-5850	--	No limit.	Clause 4.3		
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.4	Pass	A
	5250-5350	15.407(a)(2) 15.407(a)(4)	<MIN{250mW, 11dBm+10*Ig(E BW)} (avg during transmission)			
	5470-5725	15.407(a)(2) 15.407(a)(4)	<MIN{250mW, 11dBm+10*Ig(E BW)} (avg during transmission)			
	5725-5850	15.407(a)(3)	< 1W (avg during transmission)			
maximum Power Spectral Density	5150-5250	15.407(a)(1) 15.407(a)(4)	<11dBm/MHz (avg during transmission)	Clause 4.8		A
	5250-5350	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)			
	5470-5725	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)			
	5725-5850	15.407(a)(3) 15.407(a)(4)	<30dBm/500KHz (avg during transmission)			
Unwanted Emissions that fall Outside of the Restricted Bands(Radiated)	5150-5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.10	Pass	B
	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).			



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict	Test Lab*
	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).			
	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz & out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).			
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.9	Pass	B
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	---	Clause 4.2	Pass	B
Frequency Stability	5150-5250 5250-5350 5470-5600 5650-5725 5725-5850	15.209	---	Clause 4.11	Pass	A
Dynamic Frequency	5250-5350 5470-5725	47 CFR Part 15, Subpart	Channel Move Time:10 Seconds	Clause 4.12	Pass	A



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict	Test Lab*
Selection		E 15.407	Transmission Time: milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.			
			Non-occupancy period: Minimum 30 minutes			

**Remark1:**

All test were performed by Lab A and B.  
Parts of test items above were subcontracted to Lab B.  
Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch  
Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.

**Remark2:**

We, Motorola Mobility LLC. declare on our sole responsibility for the product of XT2091-4 Latam (SKU6), XT2091-3/ XT2091-8 APEM (SKU5) , the detail differences as below:

RF functionally matrix-same ROW indicates signal path is shared among SKUS		
Modes	SKU5	SKU6
Model	XT2091-3/ XT2091-8	XT2091-4
Trade Mark	Motorola/ lenovo	Motorola
FCC ID	IHDT56ZK2	IHDT56ZK1
PCB	The same	The same
GSM	The same	The same
WCDMA	1/2/4/5/8/19	1/2/4/5/8
LTE	1/2/3/4/5/7/8/18/19/20/26/28/38/40	1/2/3/4/5/7/8/19/28/66
WLAN 2.4G/5G	The same	The same
Bluetooth	The same	The same
Antenna	The same	The same
NFC	Support	Not support
Hardware Version	The same	The same
Software Version	The same	The same

According to the above difference description: The two models BT/WIFI have the same design, WIFI 5G is based on the original report ZR/2020/8000405 Spot Check RSE



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### 3 General Information

#### 3.1 Client Information

Applicant:	Motorola Mobility LLC
Address of Applicant:	222 W Merchandise Mart Plaza, Suite 1800, Chicago IL 60654, USA
Manufacturer:	Motorola Mobility LLC
Address of Manufacturer:	222 W Merchandise Mart Plaza, Suite 1800, Chicago IL 60654, USA

#### 3.2 Test Location

##### Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Dee Zheng, Jason Chen

##### Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang, Leah Chen



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### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

**Lab A:**

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

**Lab B:**

• **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• **FCC –Designation Number: CN1271**



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### 3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	XT2091-4
Trade Mark:	Motorola
Hardware Version:	DVT2
Software Version:	QZC30.Q4-22
IEEE 802.11 WLAN Mode Supported:	<input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ac (20 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ac (40 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ac (80 MHz channel bandwidth);
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(HT20/40/80/): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
DFS mode:	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11a/n/ac), <input type="checkbox"/> MIMO (for 802.11n/ac), <input type="checkbox"/> Diversity (for 802.11a) : Tx & Rx
Antenna Gain:	-6.1dBi,
Power Supply	<input checked="" type="checkbox"/> AC/DC Adapter; <input type="checkbox"/> PoE; <input type="checkbox"/> Other:

**Remark:**

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

**For UNII Band I:**

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180
	The Middle channel	5200



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	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290

For UNII Band II-C:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5500
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5500
	The Highest channel	5580

For UNII Band III:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775



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### 3.5 Test Environment and Mode

<b>Operating Environment:</b>	
Temperature:	25.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	101.32 KPa
<b>Test mode:</b>	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Test Requirement:</b>	47 CFR Part 15 Section 15.203
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is -6.1dBi.	

### 4.2 Conducted Emissions

<b>Test Requirement:</b>	47 CFR Part 15 Section 15.407(b)		
<b>Test Method:</b>	ANSI C63.10: 2013		
<b>Test Frequency Range:</b>	150kHz to 30MHz		
<b>Limit:</b>	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>		



<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

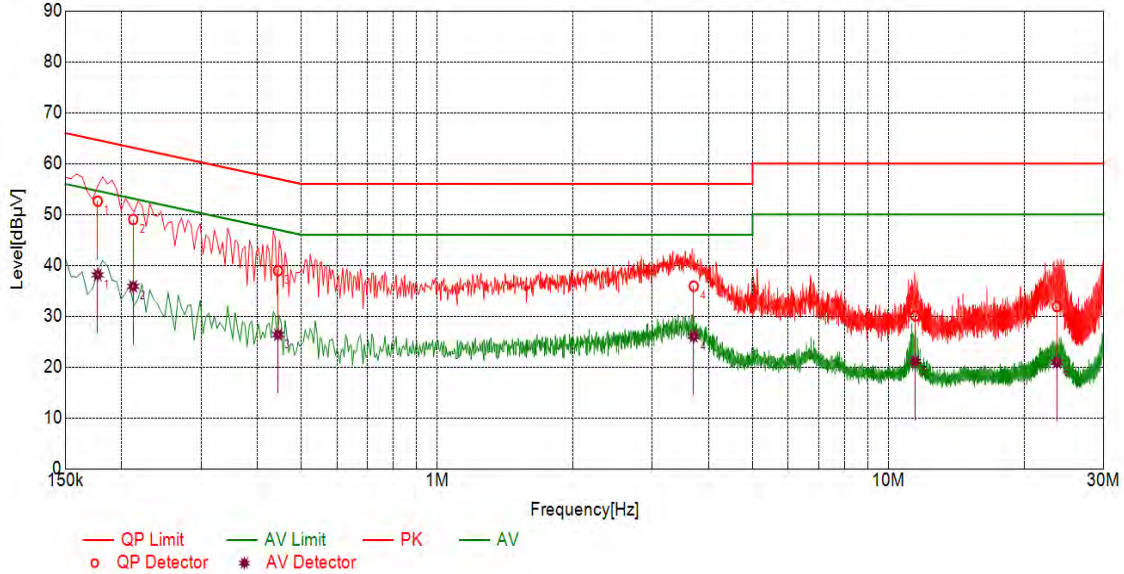
**Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Live Line:



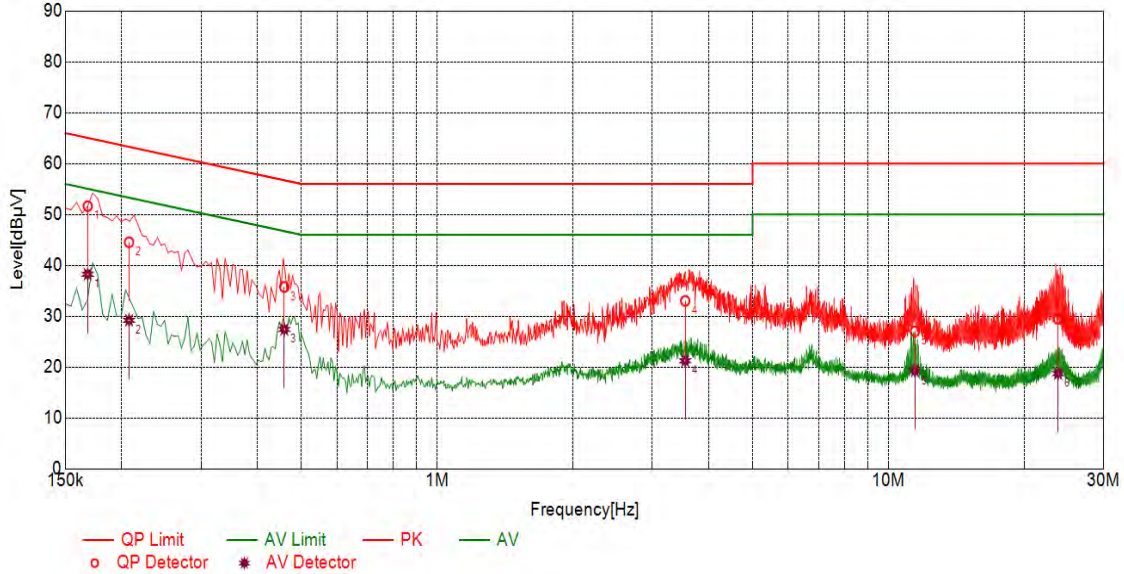
Test Graph

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1770	10.10	52.61	64.63	12.02	38.12	54.63	16.51	L
2	0.2121	10.10	49.02	63.12	14.10	35.87	53.12	17.25	L
3	0.4442	10.10	38.95	56.98	18.03	26.37	46.98	20.61	L
4	3.7043	10.10	35.90	56.00	20.10	26.02	46.00	19.98	L
5	11.4660	10.10	30.06	60.00	29.94	21.13	50.00	28.87	L
6	23.6280	10.11	31.92	60.00	28.08	20.90	50.00	29.10	L



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Neutral Line:



Test Graph

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1682	10.10	51.63	65.05	13.42	38.25	55.05	16.80	N
2	0.2077	10.10	44.54	63.30	18.76	29.19	53.30	24.11	N
3	0.4587	10.10	35.75	56.72	20.97	27.40	46.72	19.32	N
4	3.5465	10.10	33.02	56.00	22.98	21.22	46.00	24.78	N
5	11.4512	10.10	27.00	60.00	33.00	19.25	50.00	30.75	N
6	23.7777	10.11	29.46	60.00	30.54	18.72	50.00	31.28	N

Remarks:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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### 4.3 Duty Cycle

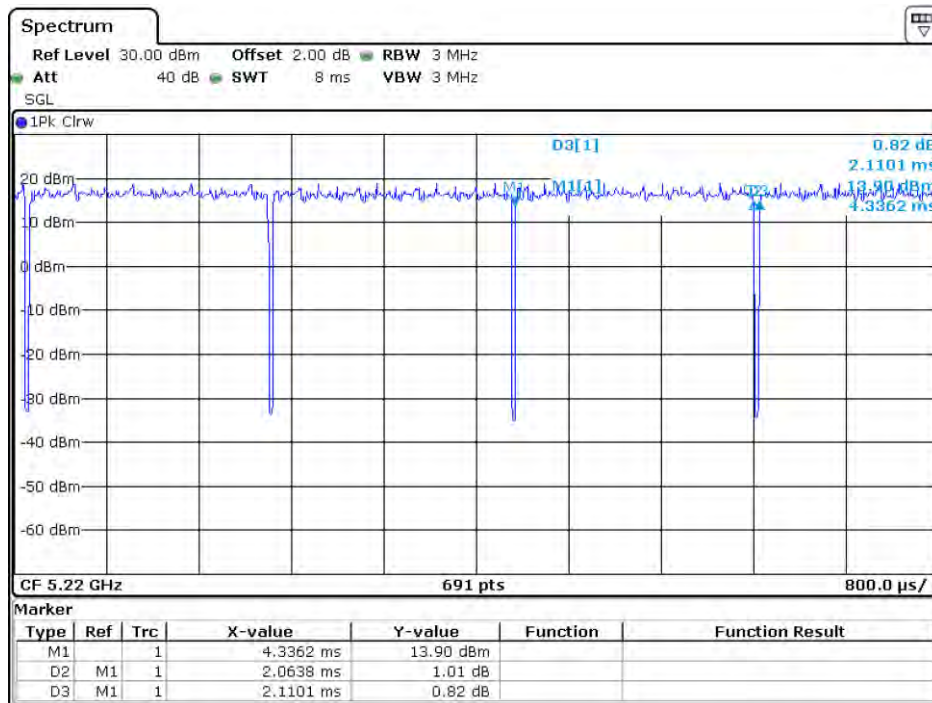
#### 4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11A	Ant 1: CH149, CH157, CH165	97.81
11N20	Ant 1: CH149, CH157, CH165	98.23
11N40	Ant 1: CH151, CH159	96.48
11AC20	Ant 1: CH149, CH157, CH165	98.24
11AC40	Ant 1: CH151, CH159	96.49
11AC80	Ant 1: CH155	93.06

#### 4.3.1 Test Plots

##### 4.3.1.1 ANT1

##### 4.3.1.1.1 11A



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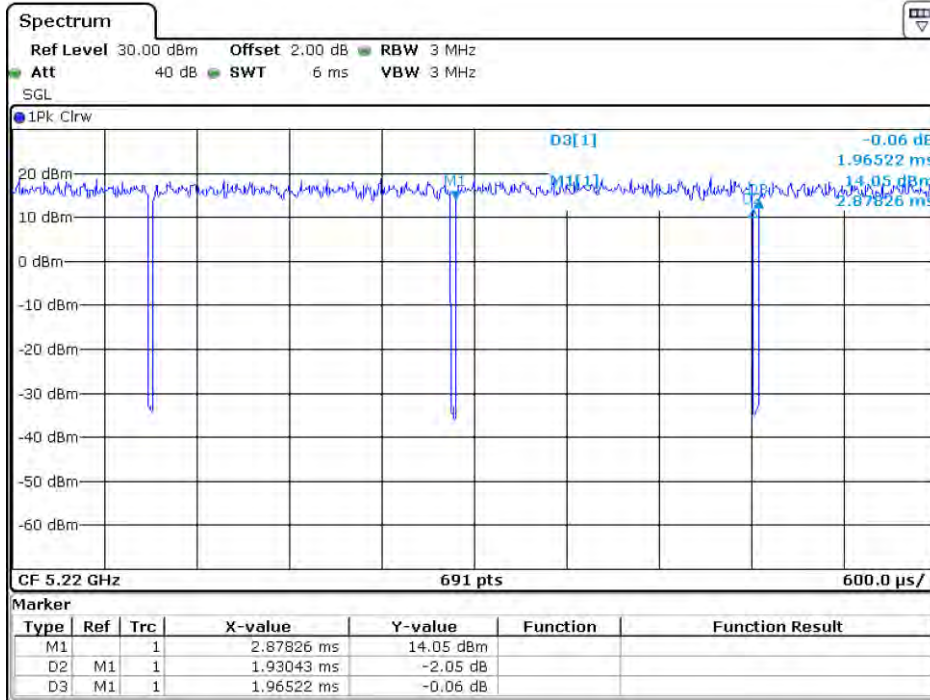


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**4.3.1.1.2 11N20**



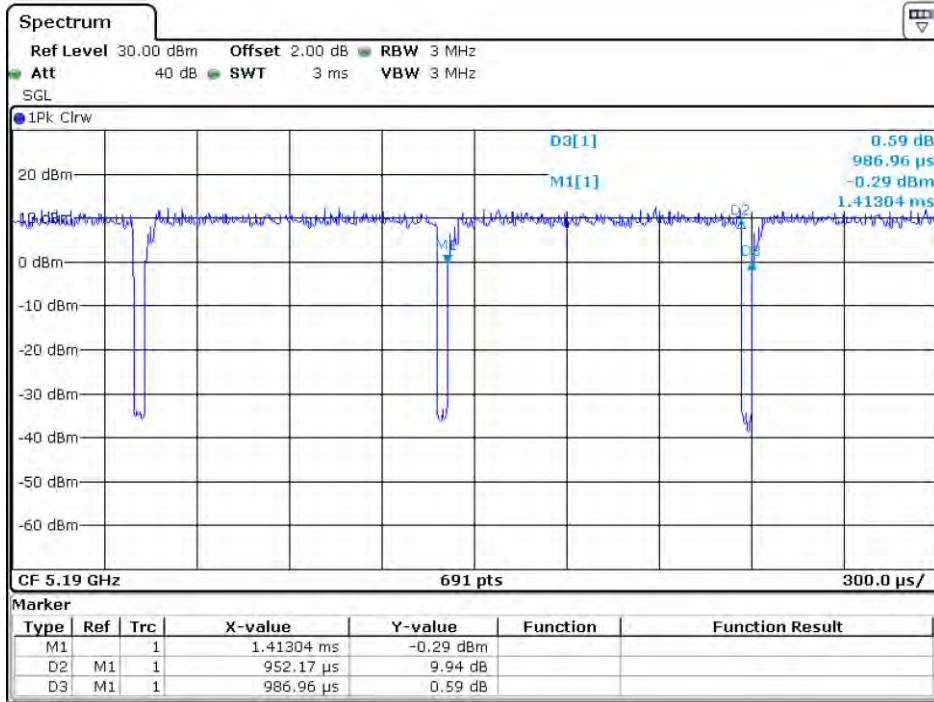
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**4.3.1.1.3 11N40**



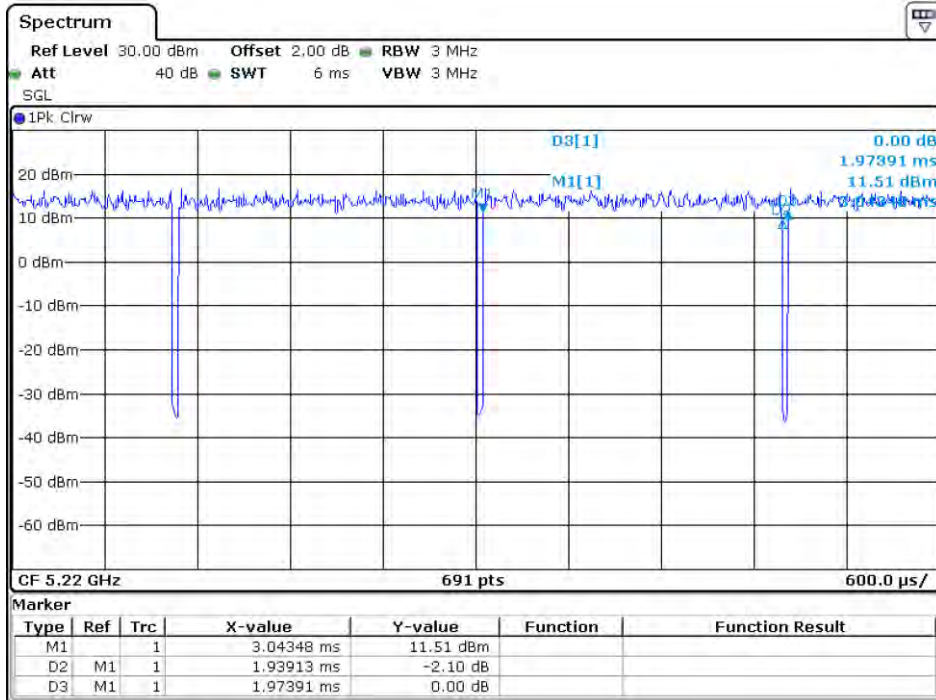
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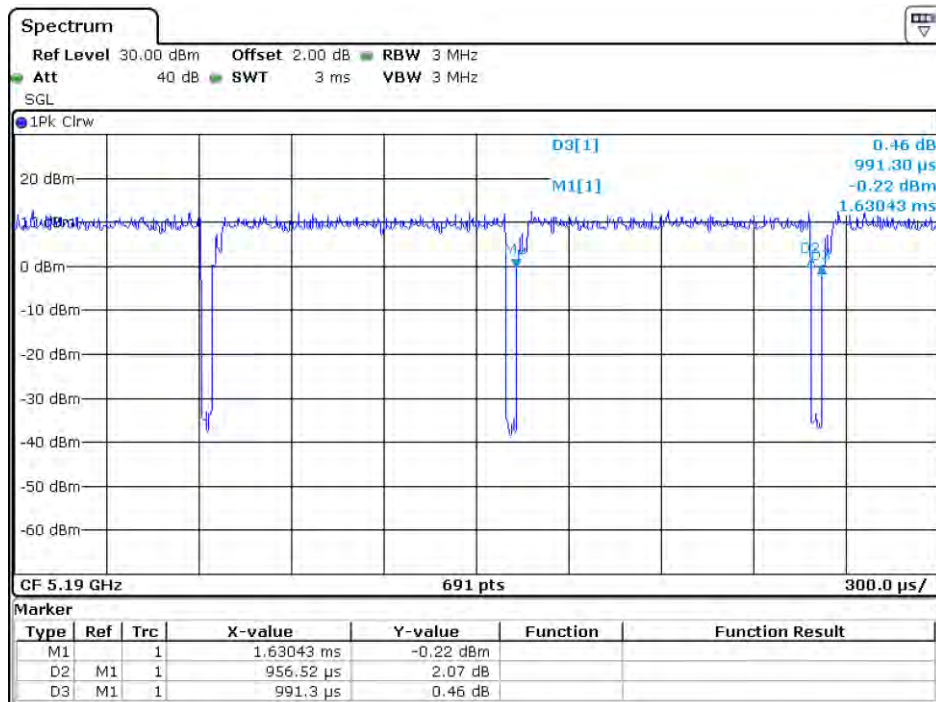
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**4.3.1.1.4 11AC20**



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**4.3.1.1.5 11AC40**

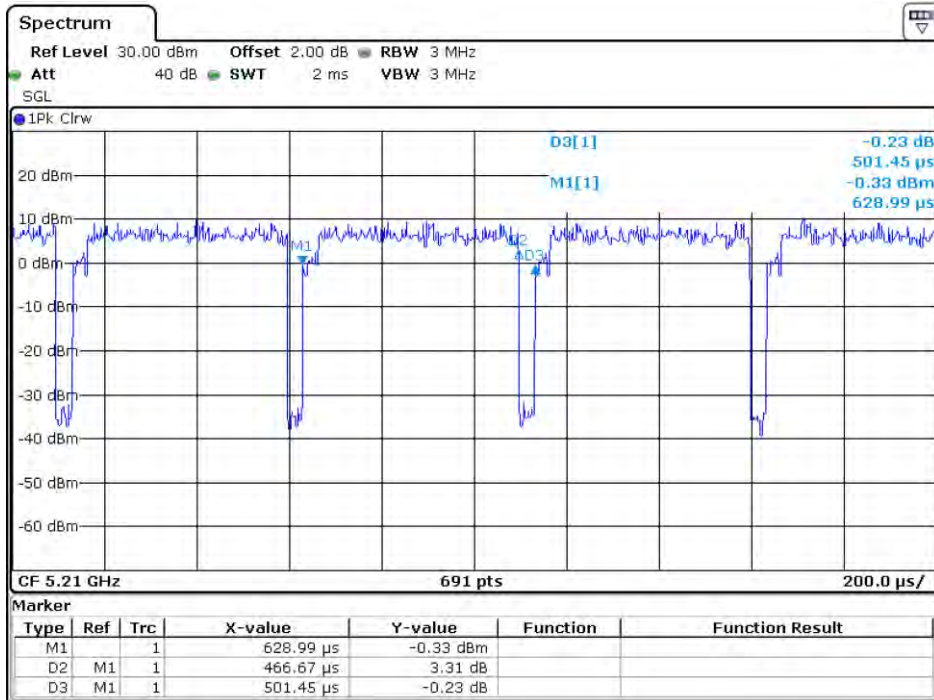


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**4.3.1.1.6 11AC80**



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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find that</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20);</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT20);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT80)</p> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
		*Where B is the 26dB emission bandwidth in MHz
Test Results:	Pass	



**4.4.1 Test Results for Conducted Output Power**

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP.) [dBm]	Verdict
11A20	36	5180	ANT 1	17.47	11.37	PASS
	44	5220	ANT 1	17.93	11.83	PASS
	48	5240	ANT 1	18.13	12.03	PASS
	52	5260	ANT 1	18.09	11.99	PASS
	60	5300	ANT 1	17.96	11.86	PASS
	64	5320	ANT 1	17.55	11.45	PASS
	100	5500	ANT 1	17.8	11.7	PASS
	116	5580	ANT 1	17.92	11.82	PASS
	140	5700	ANT 1	17.95	11.85	PASS
	149	5745	ANT 1	18.17	12.07	PASS
	157	5785	ANT 1	18.25	12.15	PASS
	165	5825	ANT 1	18.21	12.11	PASS
11N20	36	5180	ANT 1	17.33	11.23	PASS
	44	5220	ANT 1	17.79	11.69	PASS
	48	5240	ANT 1	17.97	11.87	PASS
	52	5260	ANT 1	17.93	11.83	PASS
	60	5300	ANT 1	17.79	11.69	PASS
	64	5320	ANT 1	17.39	11.29	PASS
	100	5500	ANT 1	17.65	11.55	PASS
	116	5580	ANT 1	17.86	11.76	PASS
	140	5700	ANT 1	17.86	11.76	PASS
	149	5745	ANT 1	18.07	11.97	PASS
	157	5785	ANT 1	18.16	12.06	PASS
	165	5825	ANT 1	18.14	12.04	PASS
11N40	38	5190	ANT 1	15.29	9.19	PASS
	46	5230	ANT 1	15.74	9.64	PASS
	54	5270	ANT 1	15.79	9.69	PASS
	62	5310	ANT 1	15.72	9.62	PASS



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	102	5510	ANT 1	15.39	9.29	PASS
	110	5550	ANT 1	15.49	9.39	PASS
	134	5670	ANT 1	15.71	9.61	PASS
	151	5755	ANT 1	15.76	9.66	PASS
	159	5795	ANT 1	15.99	9.89	PASS
11AC20	36	5180	ANT 1	15.18	9.08	PASS
	44	5220	ANT 1	15.65	9.55	PASS
	48	5240	ANT 1	15.85	9.75	PASS
	52	5260	ANT 1	15.82	9.72	PASS
	60	5300	ANT 1	15.59	9.49	PASS
	64	5320	ANT 1	15.26	9.16	PASS
	100	5500	ANT 1	15.82	9.72	PASS
	116	5580	ANT 1	15.5	9.4	PASS
	140	5700	ANT 1	15.55	9.45	PASS
	149	5745	ANT 1	15.77	9.67	PASS
	157	5785	ANT 1	16.3	10.2	PASS
	165	5825	ANT 1	15.97	9.87	PASS
11AC40	38	5190	ANT 1	15.98	9.88	PASS
	46	5230	ANT 1	16.43	10.33	PASS
	54	5270	ANT 1	16.47	10.37	PASS
	62	5310	ANT 1	16.37	10.27	PASS
	102	5510	ANT 1	16.6	10.5	PASS
	110	5550	ANT 1	16.17	10.07	PASS
	134	5670	ANT 1	16.48	10.38	PASS
	151	5755	ANT 1	16.49	10.39	PASS
	159	5795	ANT 1	17.23	11.13	PASS
11AC80	42	5210	ANT 1	15.94	9.84	PASS
	58	5290	ANT 1	16.26	10.16	PASS
	106	5530	ANT 1	15.03	8.93	PASS
	122	5610	ANT 1	16.47	10.37	PASS
	138	5690	ANT 1	15.96	9.86	PASS
	155	5775	ANT 1	16.71	10.61	PASS



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### 4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
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>
Instruments Used:	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:	No restriction limits
Test Results:	Pass



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**4.5.1 Test Results for 26dB Emission Bandwidth**

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	21.06	PASS
	44	5220	ANT 1	20.88	PASS
	48	5240	ANT 1	20.85	PASS
	60	5300	ANT 1	20.82	PASS
	52	5260	ANT 1	20.82	PASS
	64	5320	ANT 1	20.85	PASS
	100	5500	ANT 1	20.82	PASS
	116	5580	ANT 1	20.82	PASS
	140	5700	ANT 1	20.79	PASS
11N20	36	5180	ANT 1	21.3	PASS
	44	5220	ANT 1	21.24	PASS
	48	5240	ANT 1	21.3	PASS
	52	5260	ANT 1	21.18	PASS
	60	5300	ANT 1	21.18	PASS
	64	5320	ANT 1	21.21	PASS
	100	5500	ANT 1	21.15	PASS
	116	5580	ANT 1	21.18	PASS
11N40	140	5700	ANT 1	21.27	PASS
	38	5190	ANT 1	41.28	PASS
	46	5230	ANT 1	41.58	PASS
	54	5270	ANT 1	41.82	PASS
	62	5310	ANT 1	41.52	PASS
	102	5510	ANT 1	41.76	PASS
	110	5550	ANT 1	41.64	PASS
11AC20	134	5670	ANT 1	44.7	PASS
	36	5180	ANT 1	21.18	PASS
	44	5220	ANT 1	21.27	PASS
	48	5240	ANT 1	21.27	PASS
	52	5260	ANT 1	21.18	PASS
	60	5300	ANT 1	21.18	PASS
	64	5320	ANT 1	21.18	PASS
	100	5500	ANT 1	21.15	PASS
11AC40	116	5580	ANT 1	21.21	PASS
	140	5700	ANT 1	21.24	PASS
	38	5190	ANT 1	41.88	PASS
	46	5230	ANT 1	41.64	PASS



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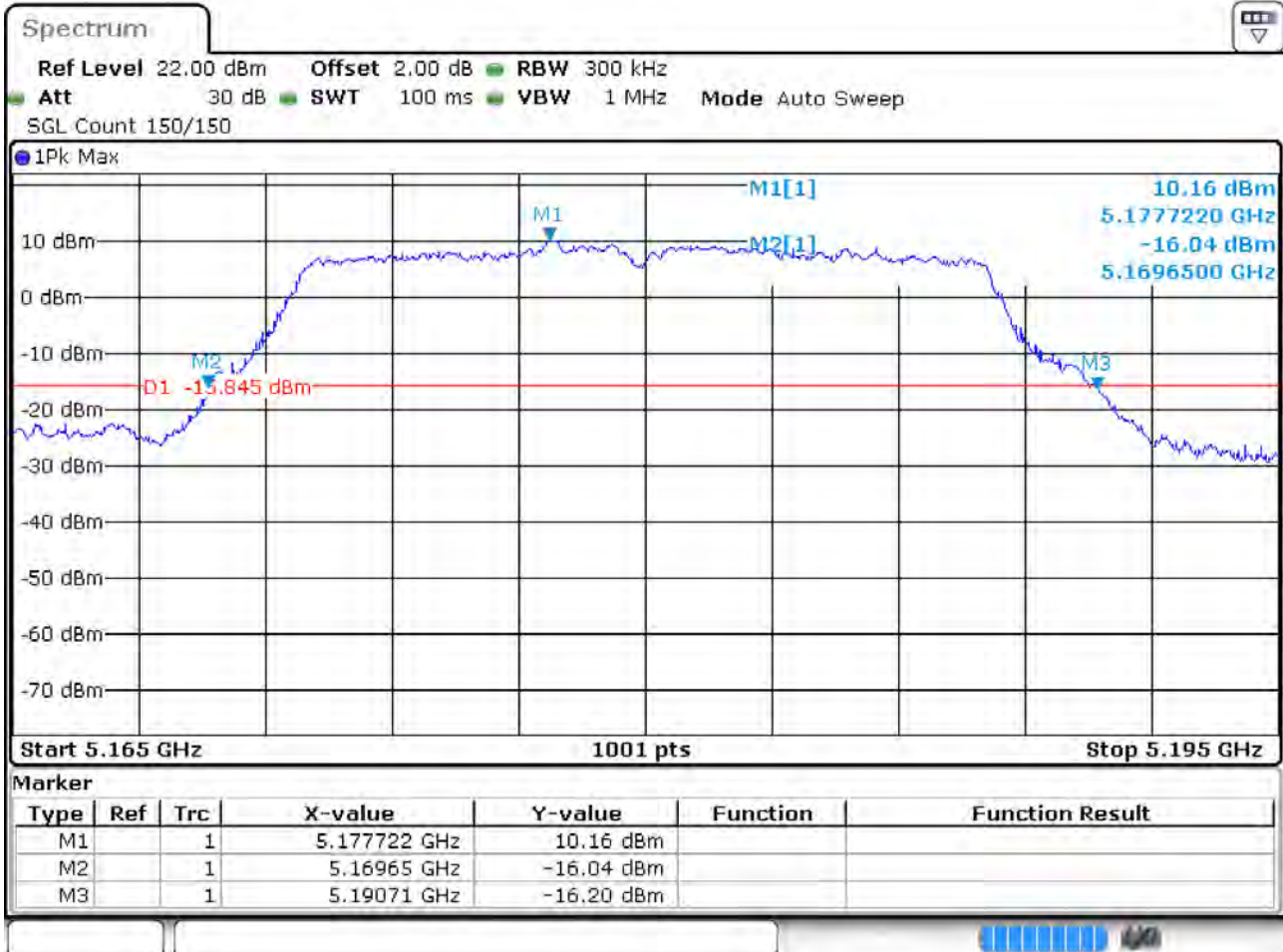
	54	5270	ANT 1	42	PASS
	62	5310	ANT 1	50.4	PASS
	102	5510	ANT 1	41.58	PASS
	110	5550	ANT 1	41.7	PASS
	134	5670	ANT 1	41.28	PASS
11AC80	42	5210	ANT 1	84.16	PASS
	58	5290	ANT 1	83.52	PASS
	106	5530	ANT 1	88.48	PASS
	122	5610	ANT 1	90.56	PASS
	138	5690	ANT 1	94.56	PASS



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4.5.2 Plots for 26dB Emission Bandwidth  
4.5.2.1 11A20\_36 ANT 1

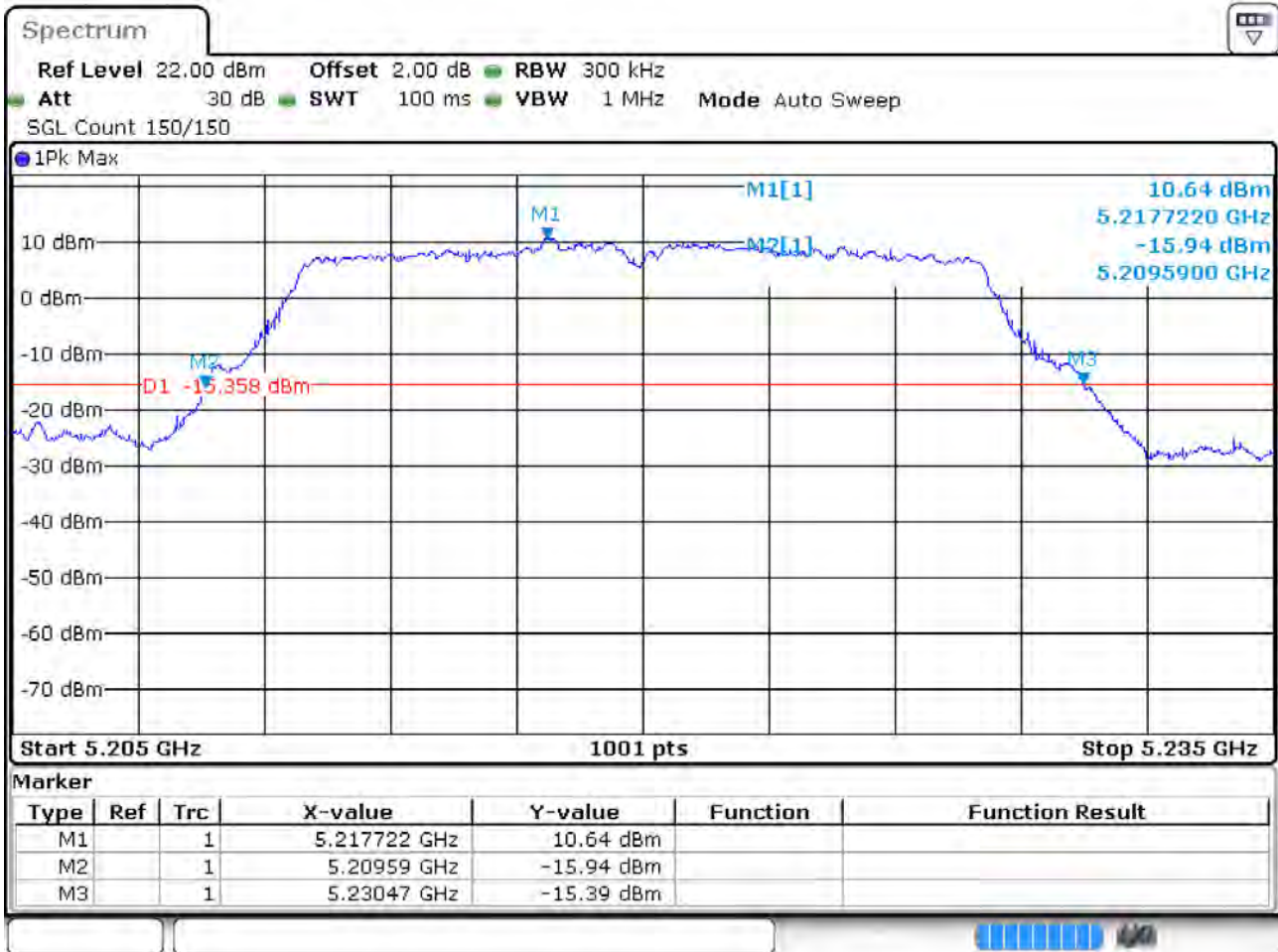


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**4.5.2.2 11A20\_44 ANT 1**



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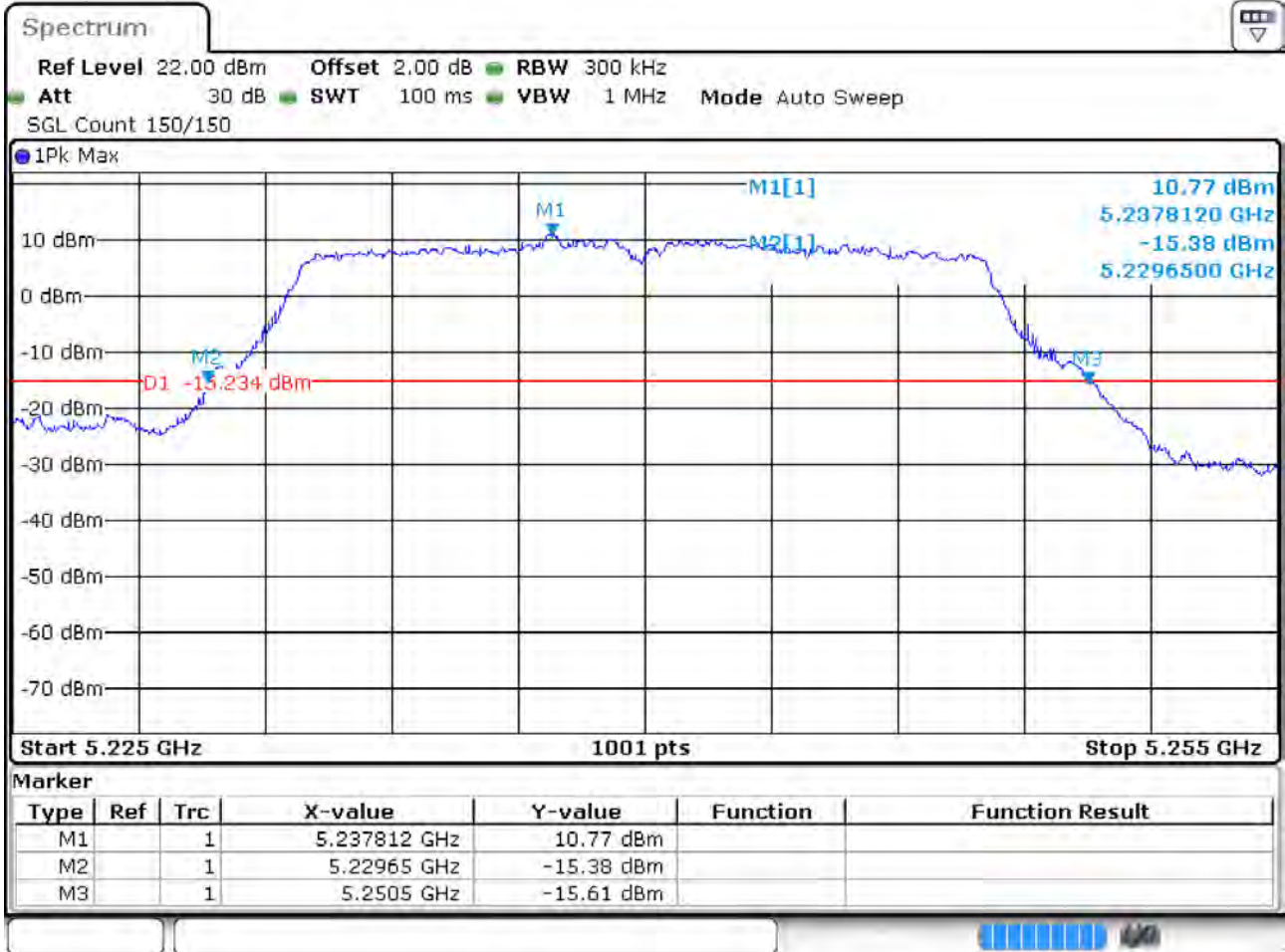


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4.5.2.3 11A20\_48 ANT 1



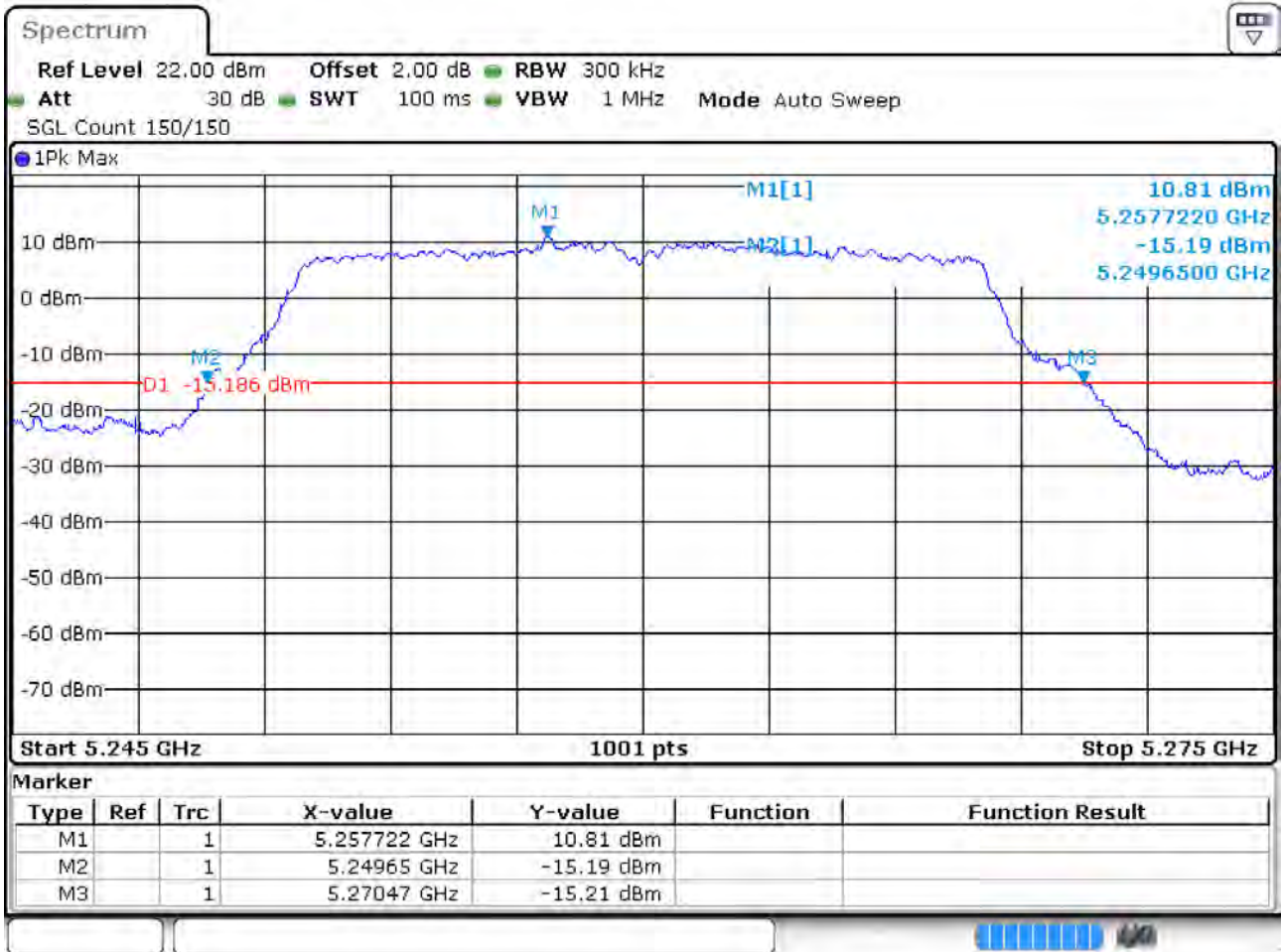
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4.5.2.4 11A20\_52 ANT 1



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**4.5.2.5 11A20\_60 ANT 1**



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4.5.2.6 11A20\_64 ANT 1

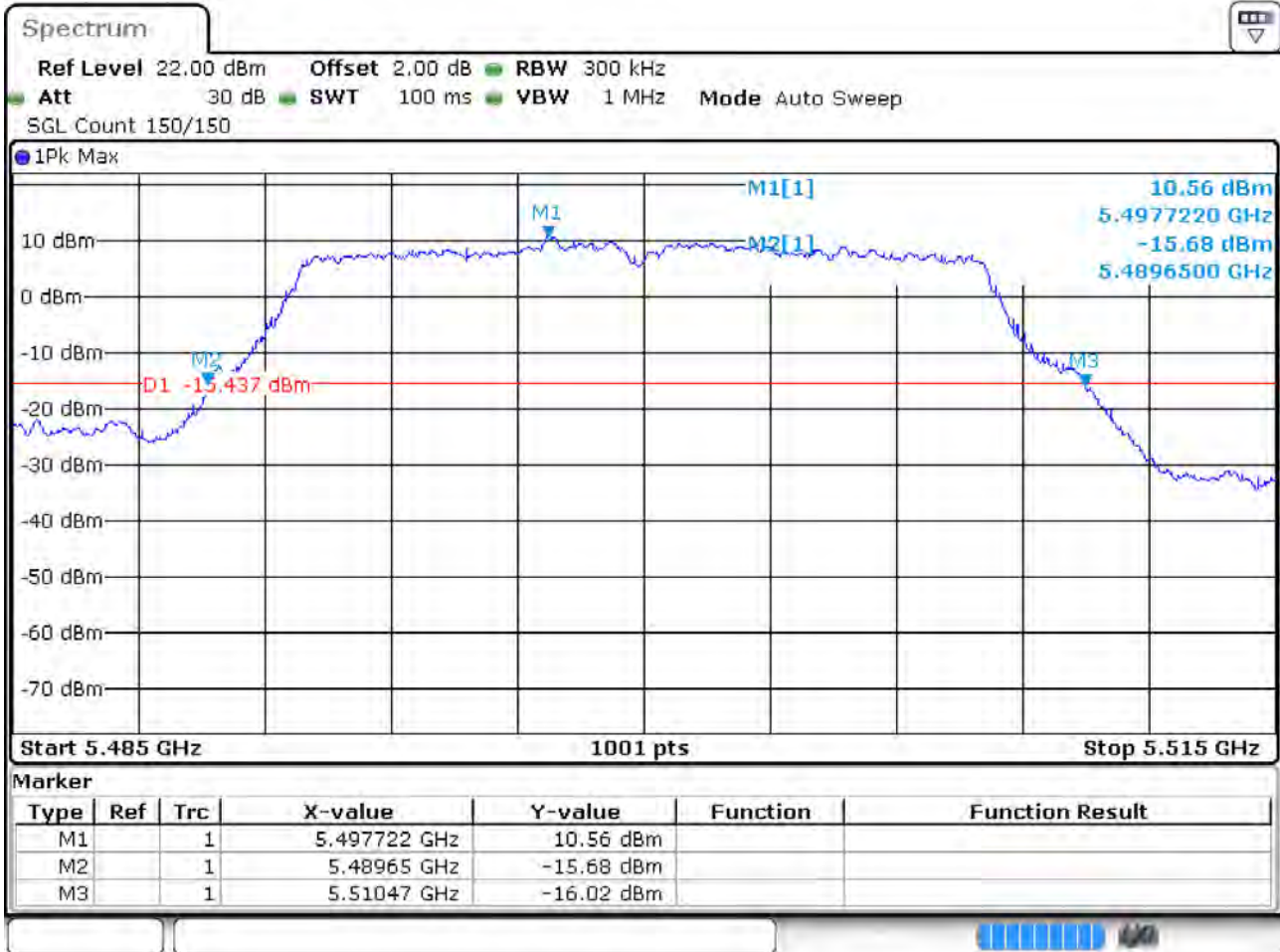


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4.5.2.7 11A20\_100 ANT 1



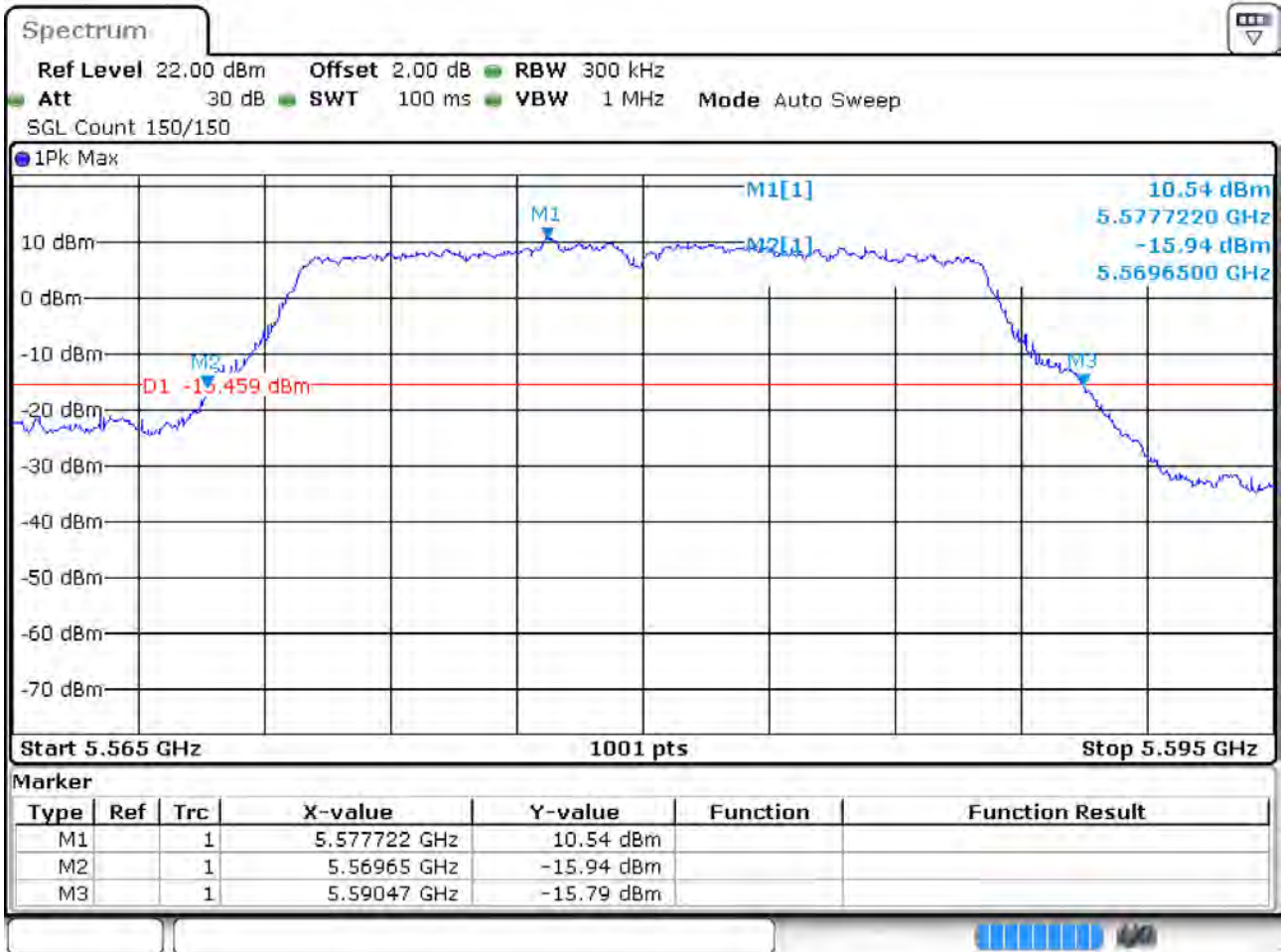
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**4.5.2.8 11A20\_116 ANT 1**



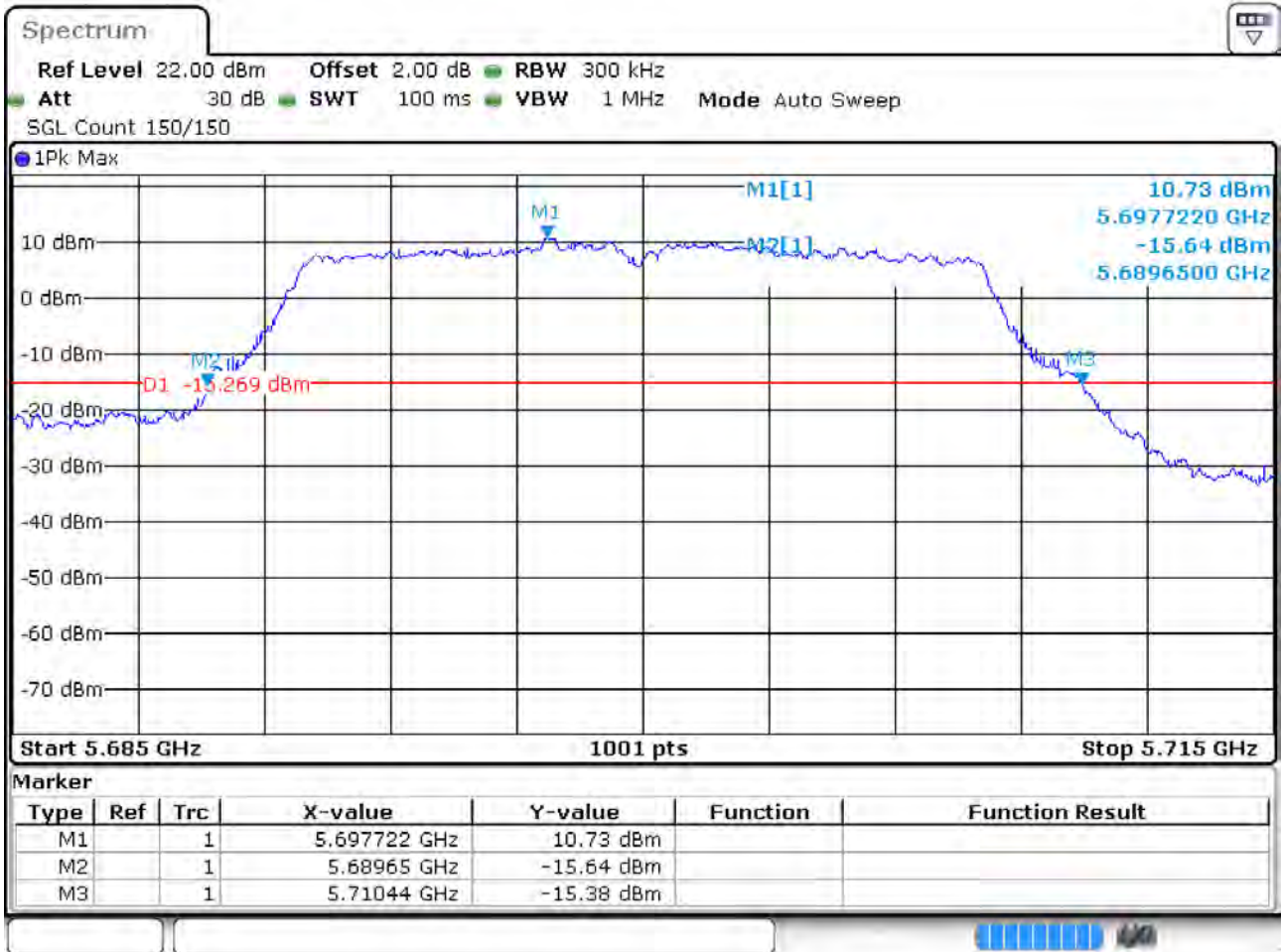
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4.5.2.9 11A20\_140 ANT 1



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4.5.2.10 11N20\_36 ANT 1



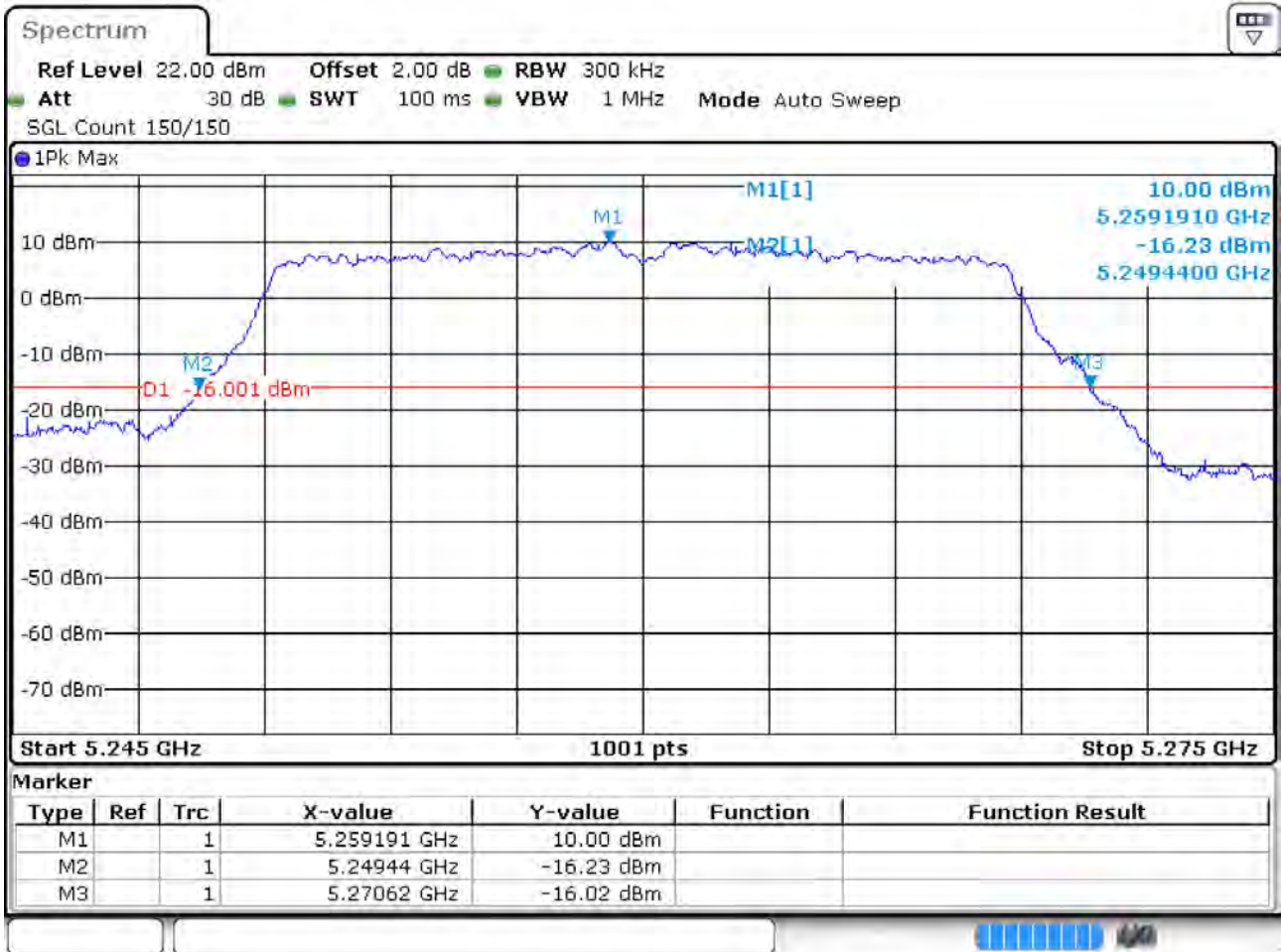
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**4.5.2.11 11N20\_52 ANT 1**



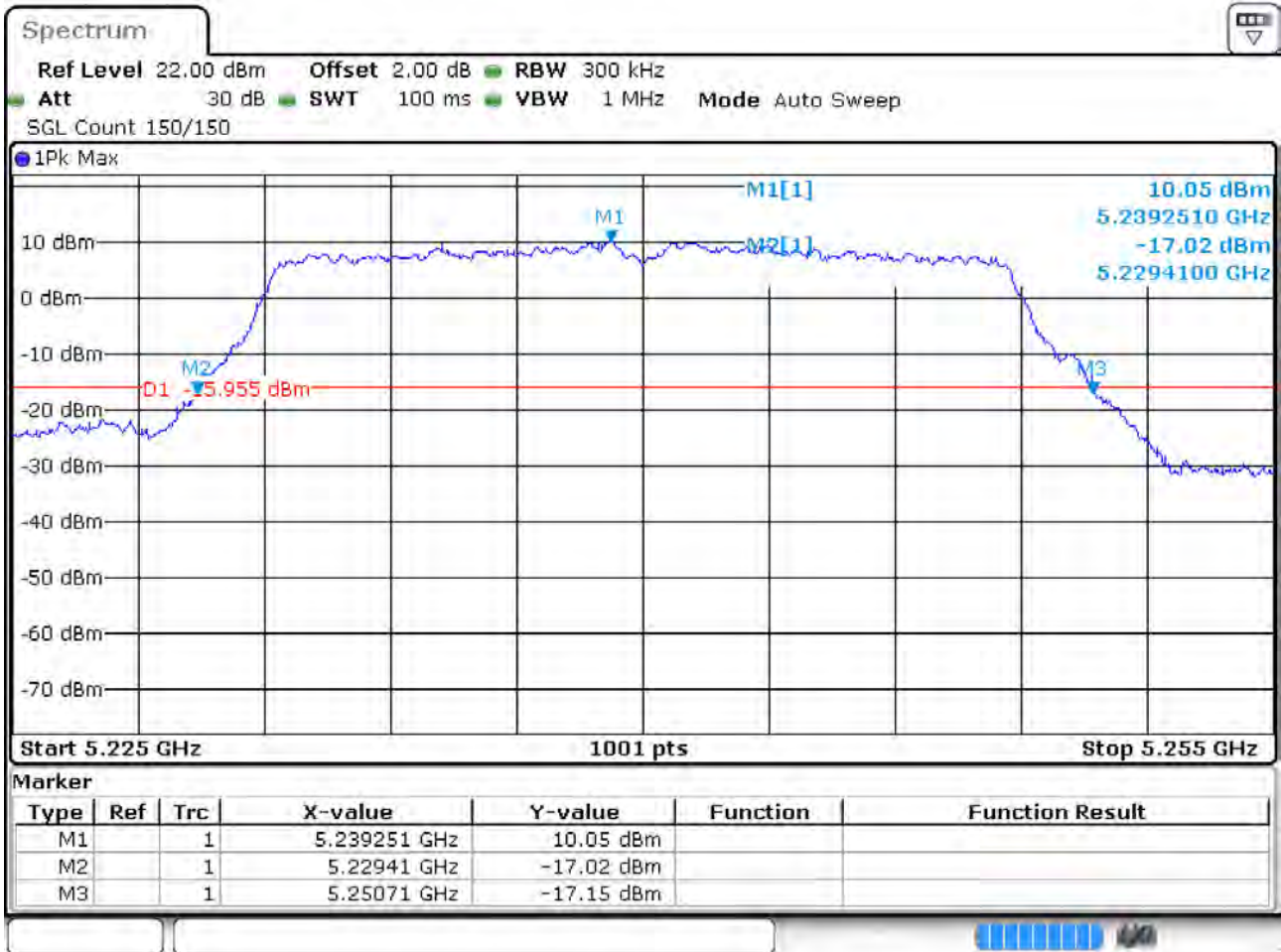
Date: 11.SEP.2020 16:20:39



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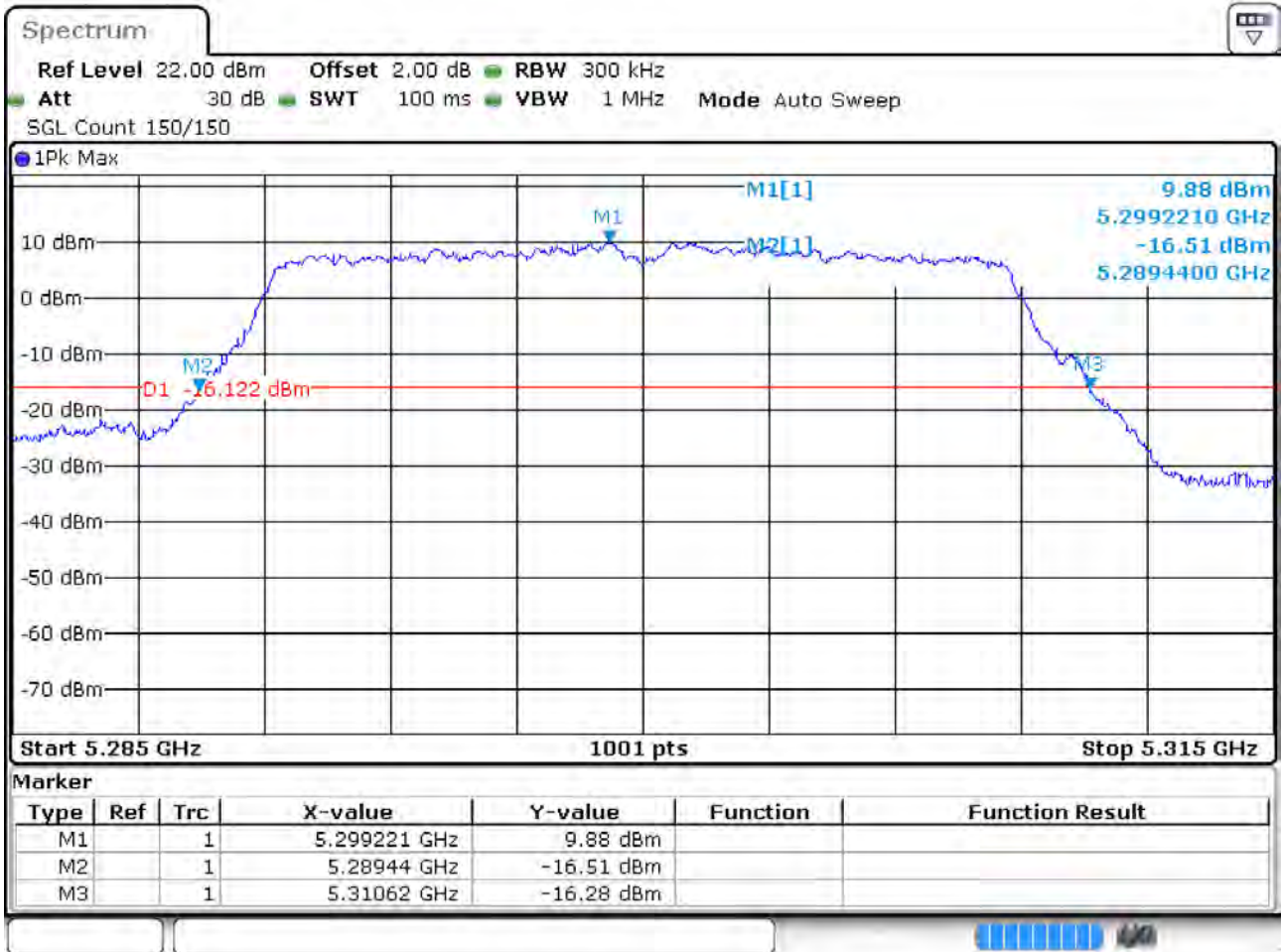
**4.5.2.12 11N20\_48 ANT 1**



Date: 11.SEP.2020 16:19:03



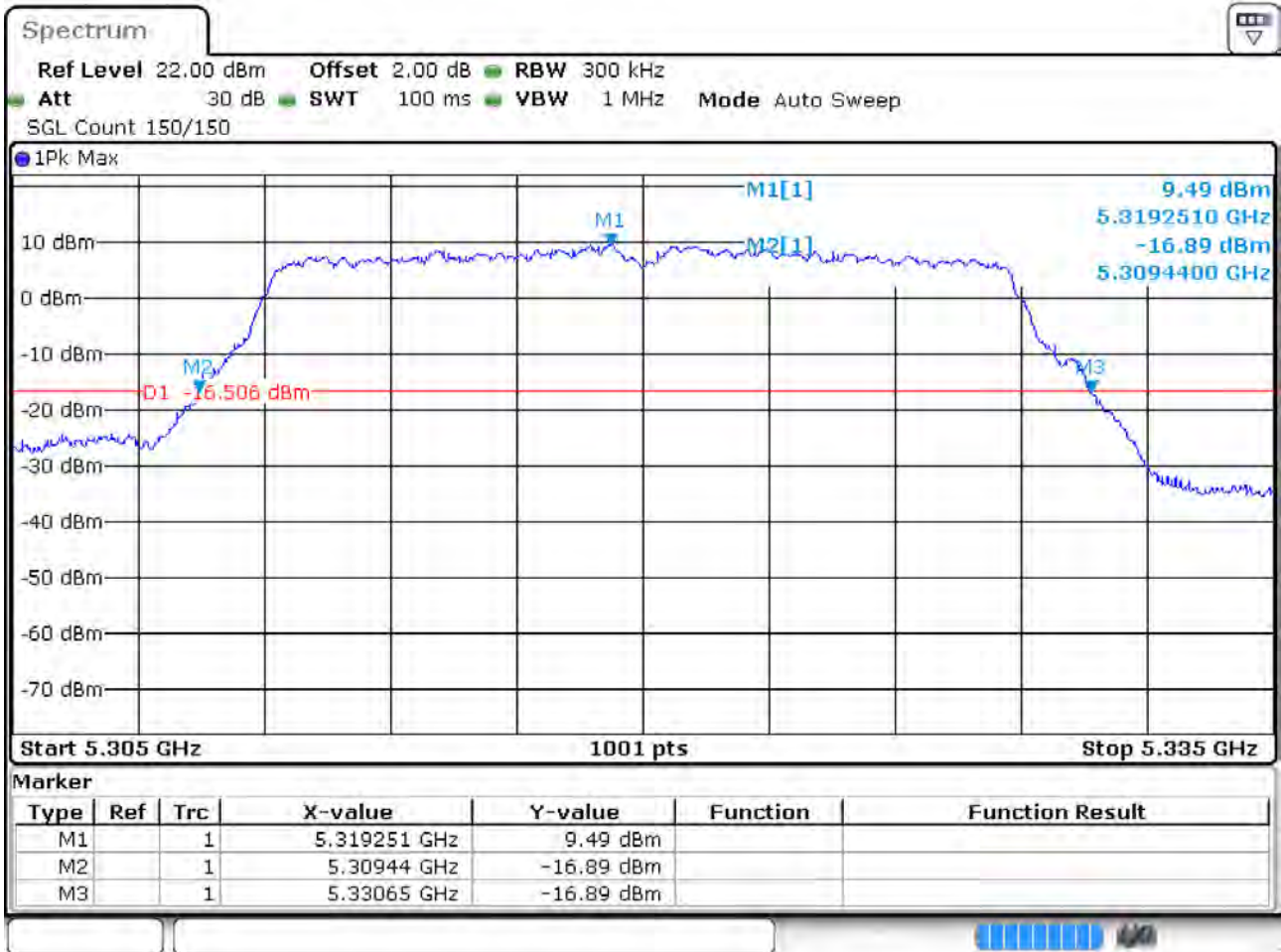
**4.5.2.13 11N20\_60 ANT 1**



Date: 11.SEP.2020 16:22:00



4.5.2.14 11N20\_64 ANT 1



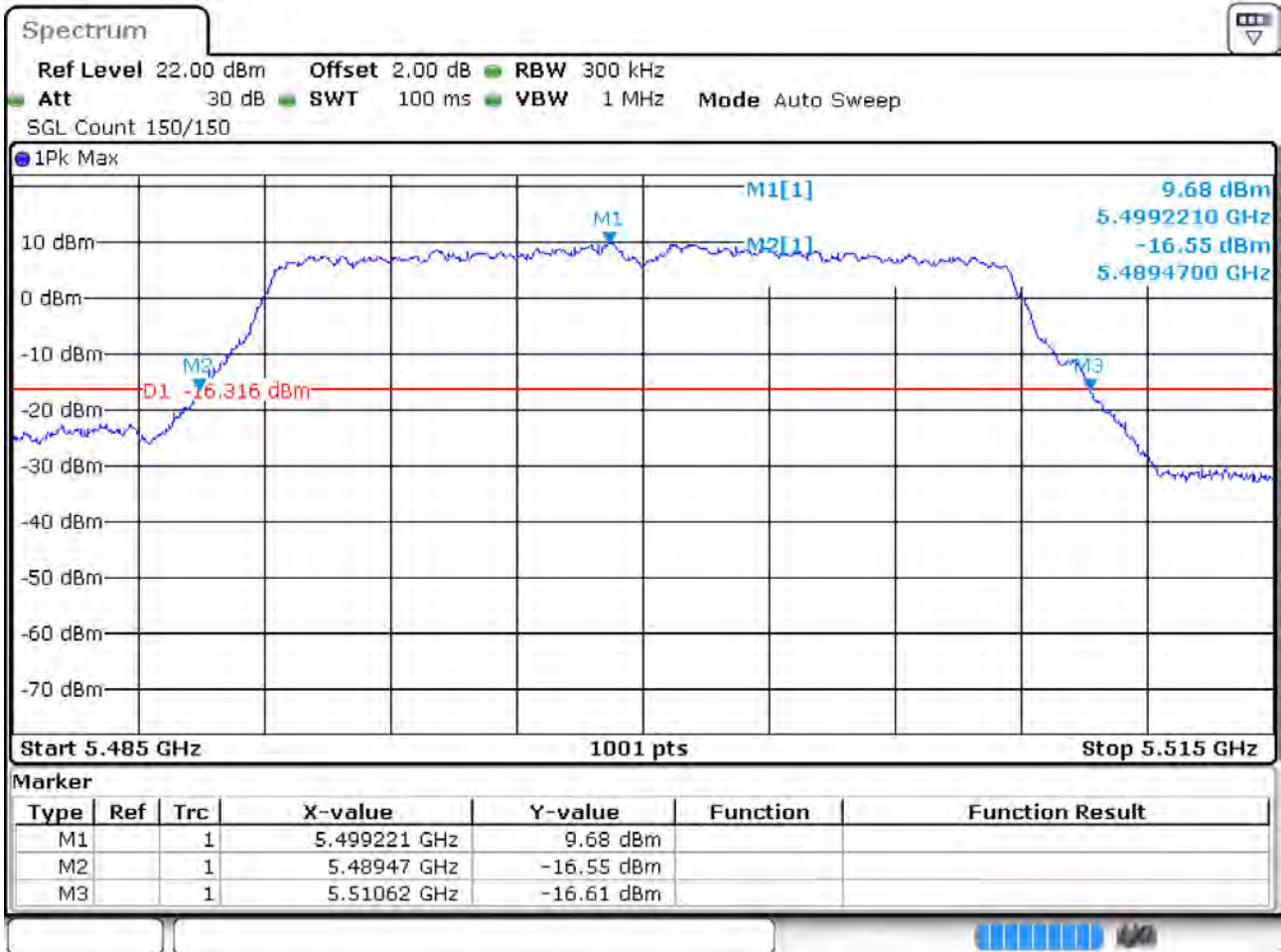
Date: 11.SEP.2020 16:23:38



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4.5.2.15 11N20\_100 ANT 1



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4.5.2.16 11N20\_116 ANT 1

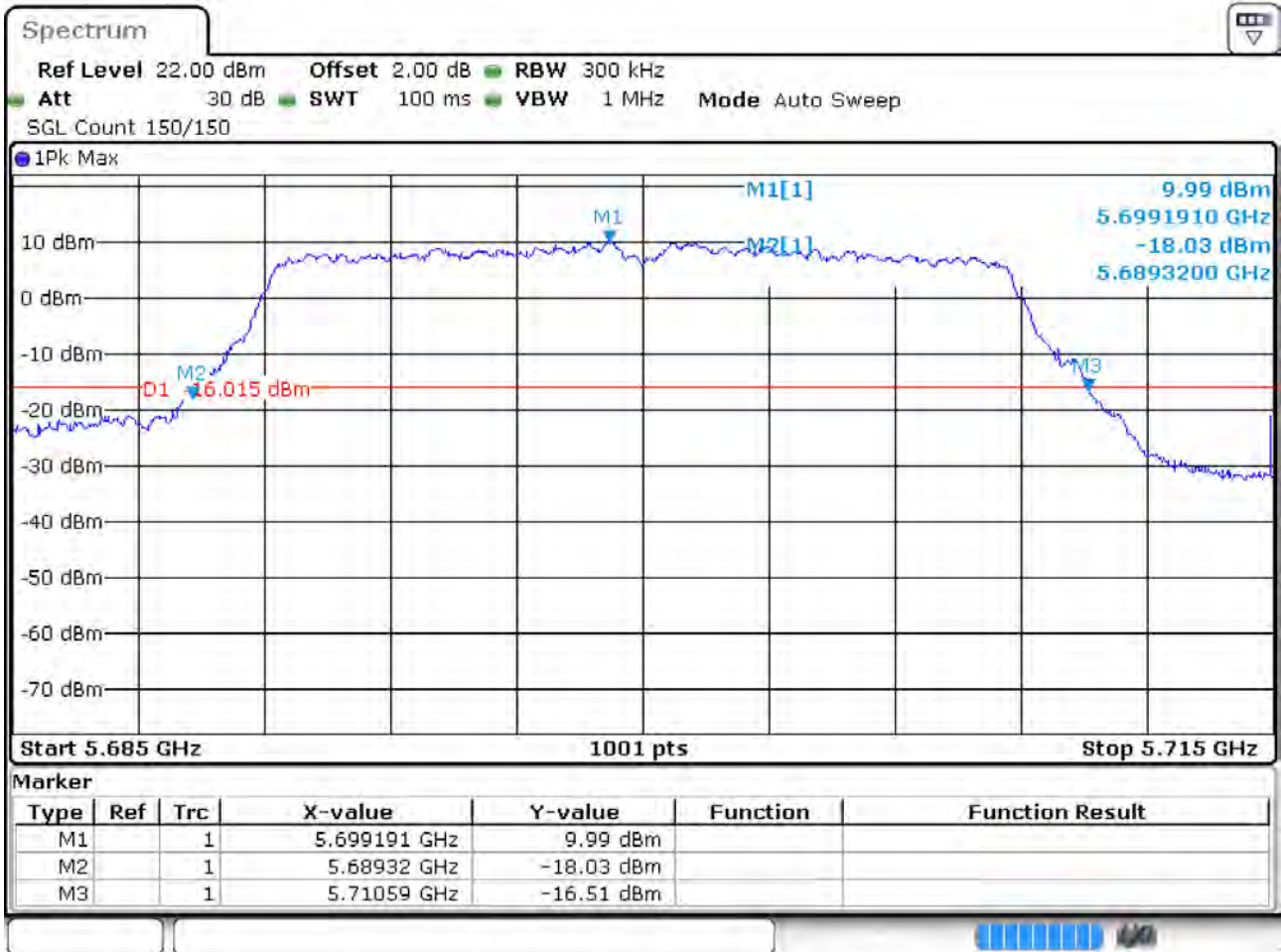


Date: 11.SEP.2020 17:08:17



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4.5.2.17 11N20\_140 ANT 1



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4.5.2.18 11N40\_38 ANT 1



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4.5.2.19 11N40\_46 ANT 1

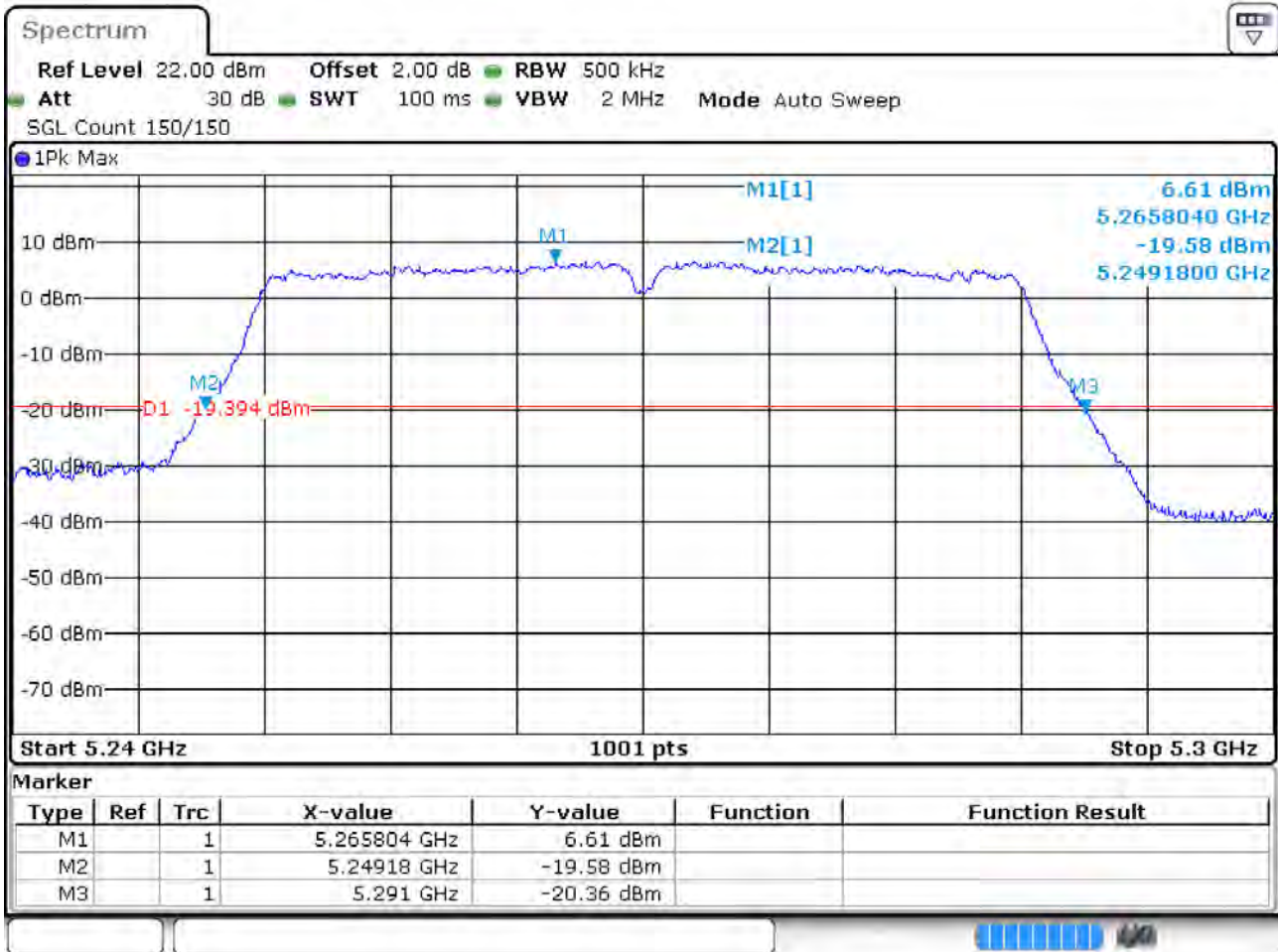


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4.5.2.20 11N40\_54 ANT 1

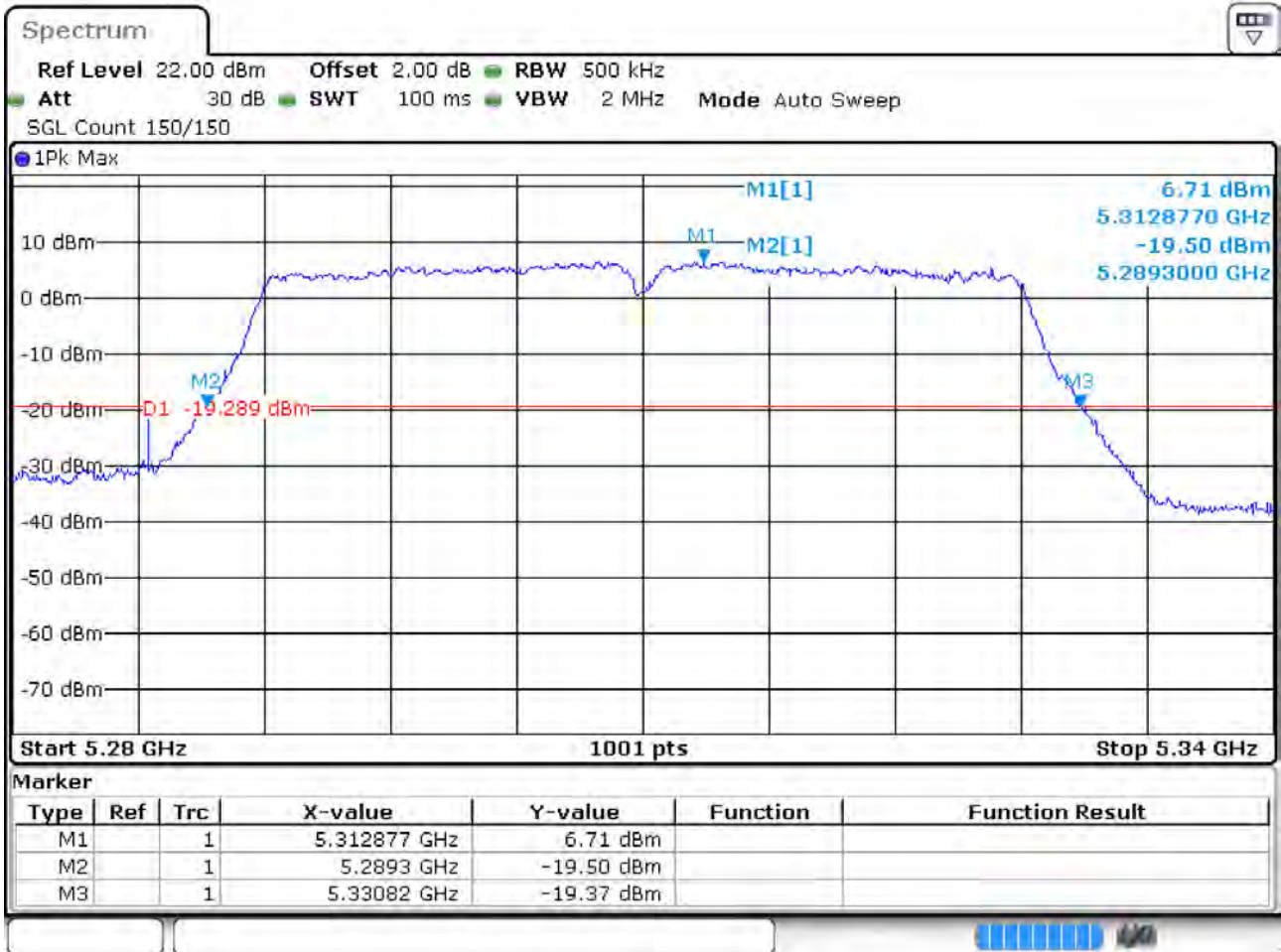


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**4.5.2.21 11N40\_62 ANT 1**

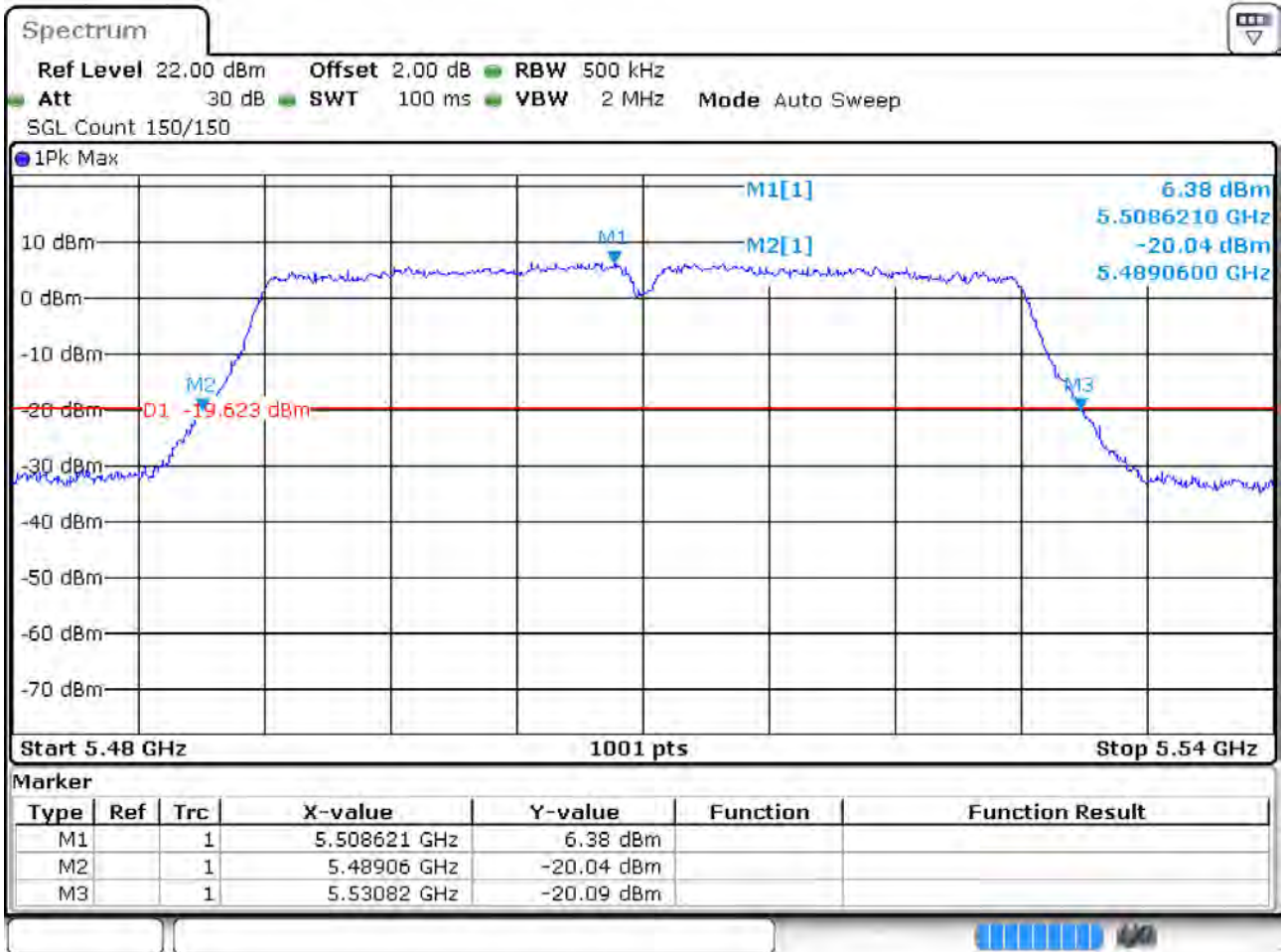


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4.5.2.22 11N40\_102 ANT 1



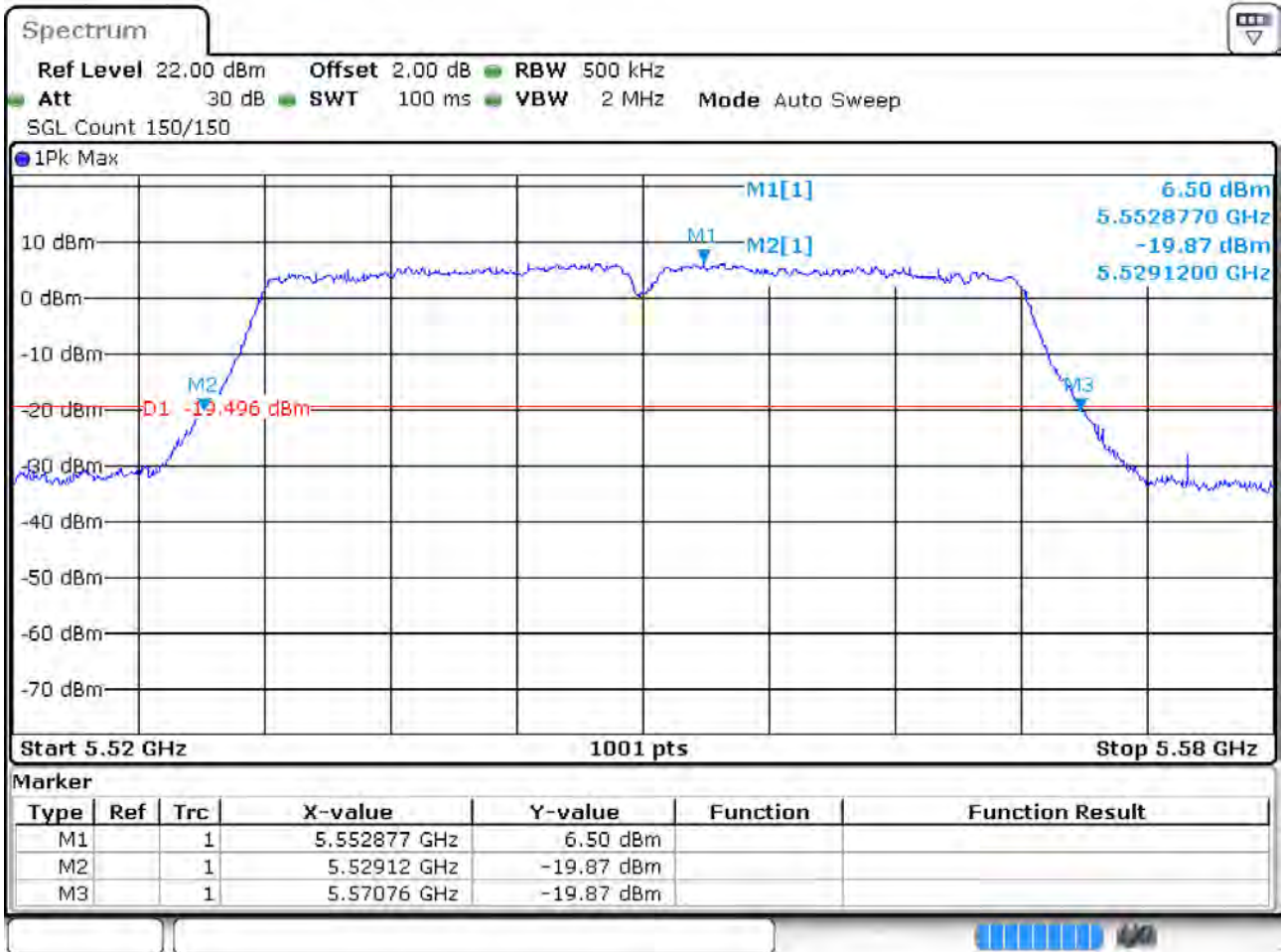
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4.5.2.23 11N40\_110 ANT 1

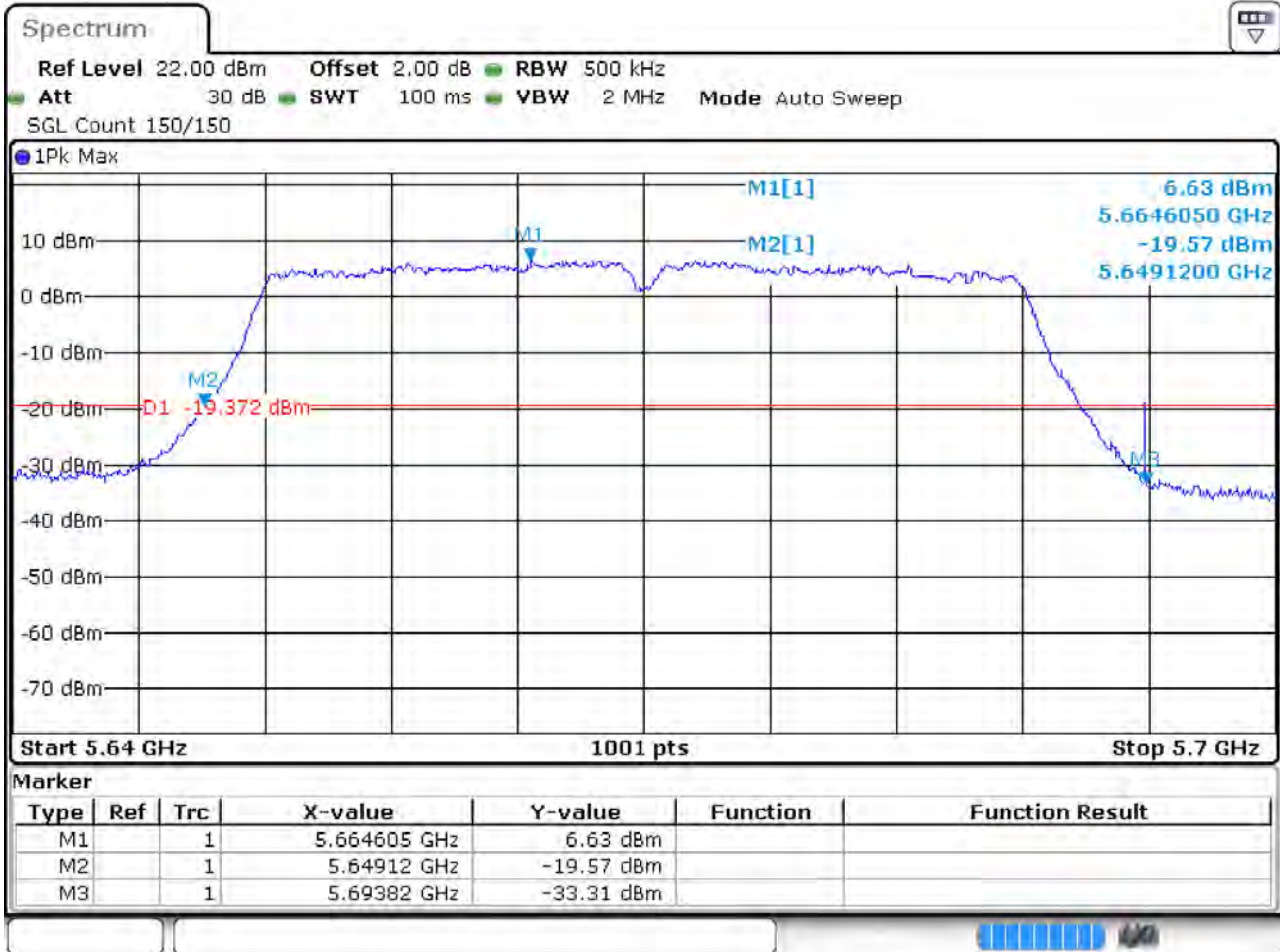


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4.5.2.24 11N40\_134 ANT 1



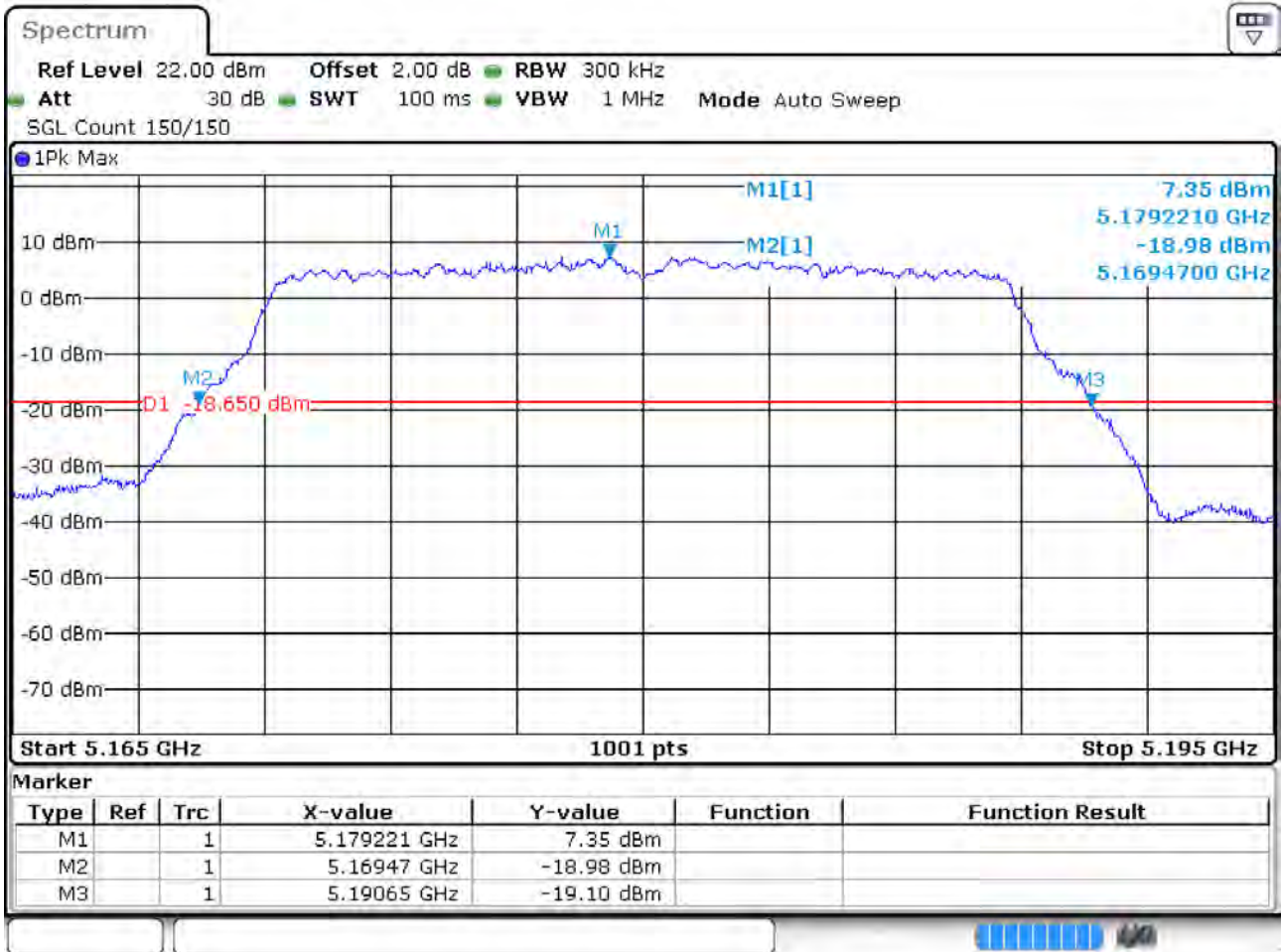
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4.5.2.25 11AC20\_36 ANT 1



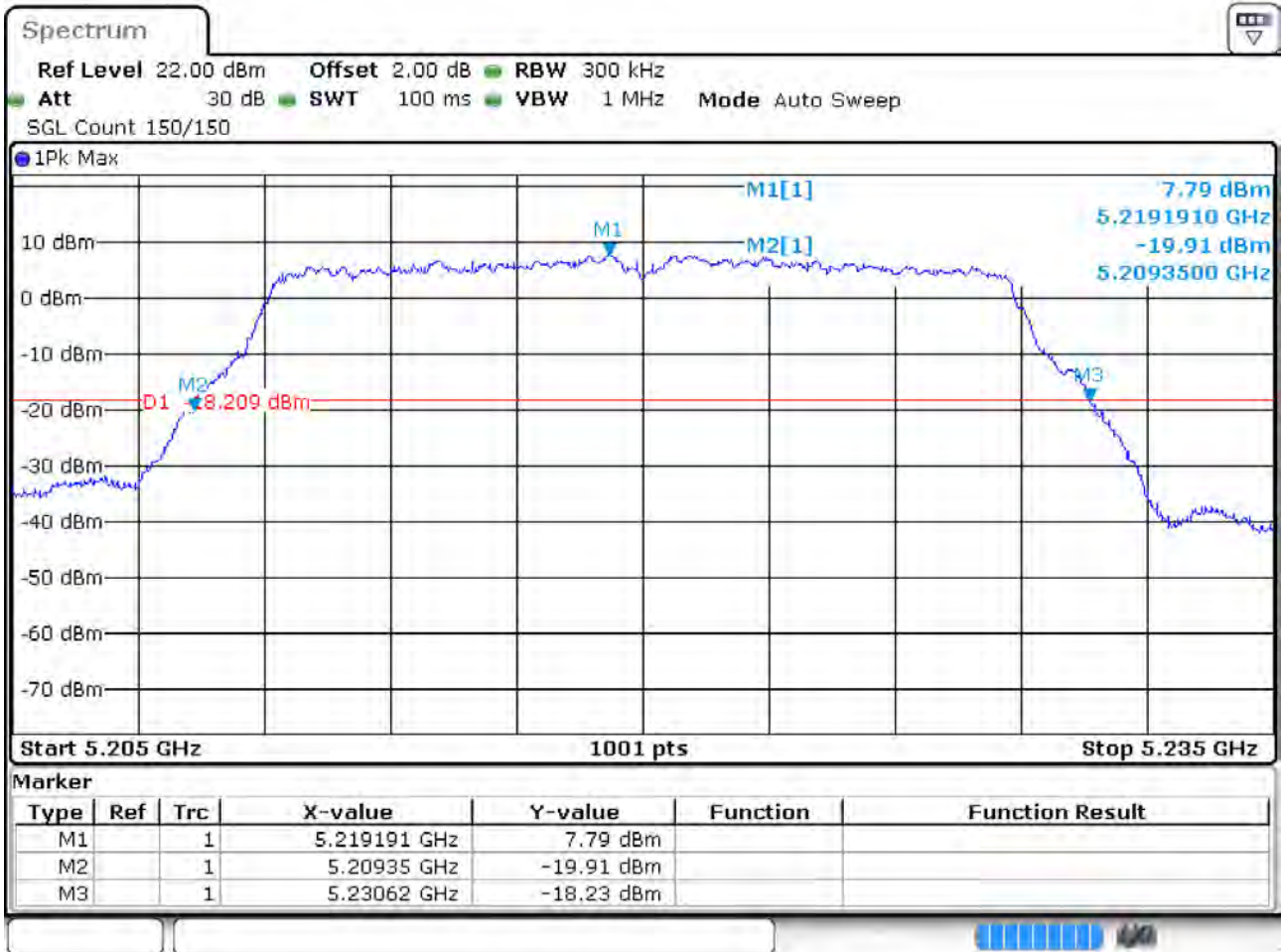
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4.5.2.26 11AC20\_44 ANT 1



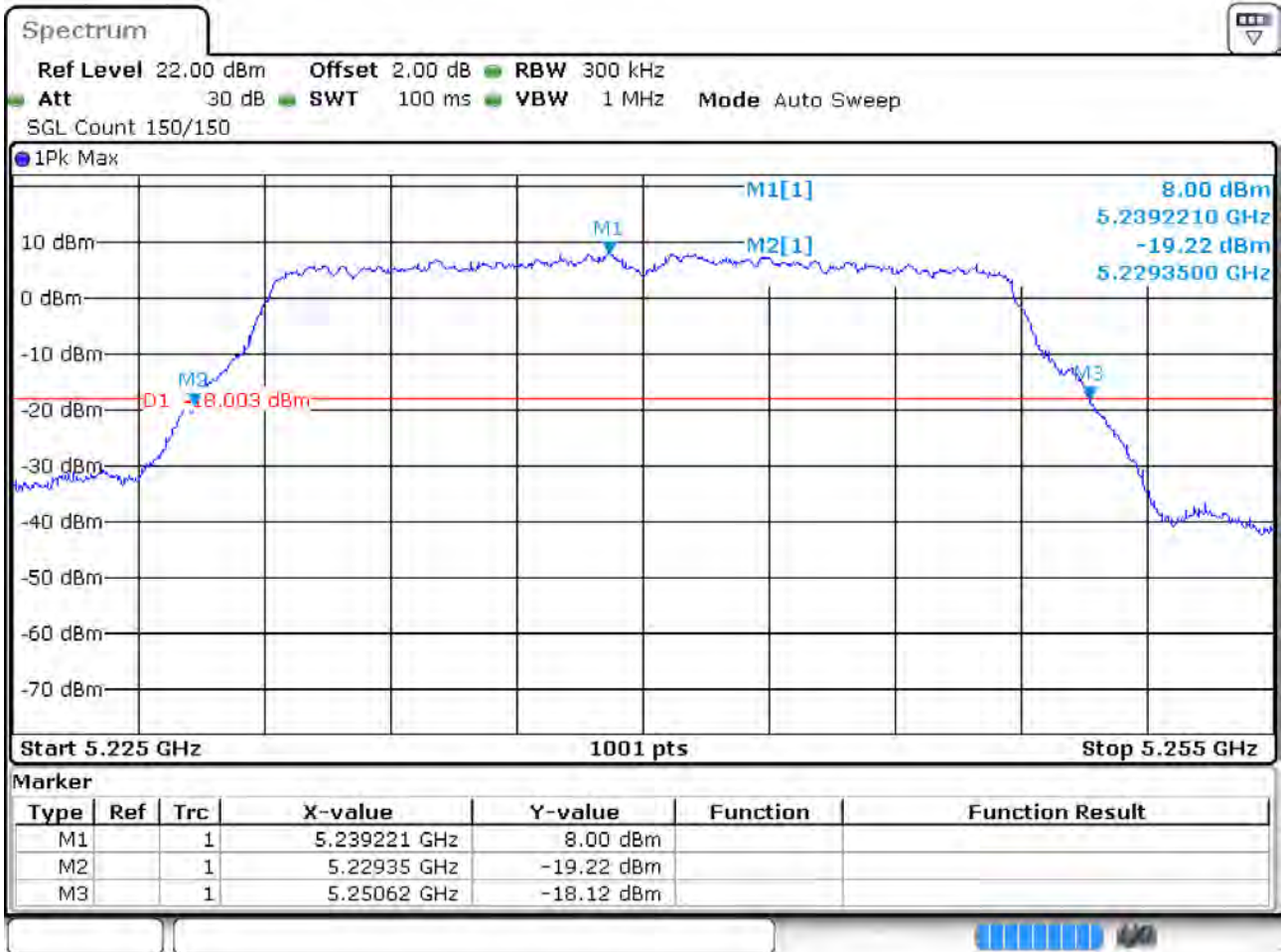
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4.5.2.27 11AC20\_48 ANT 1



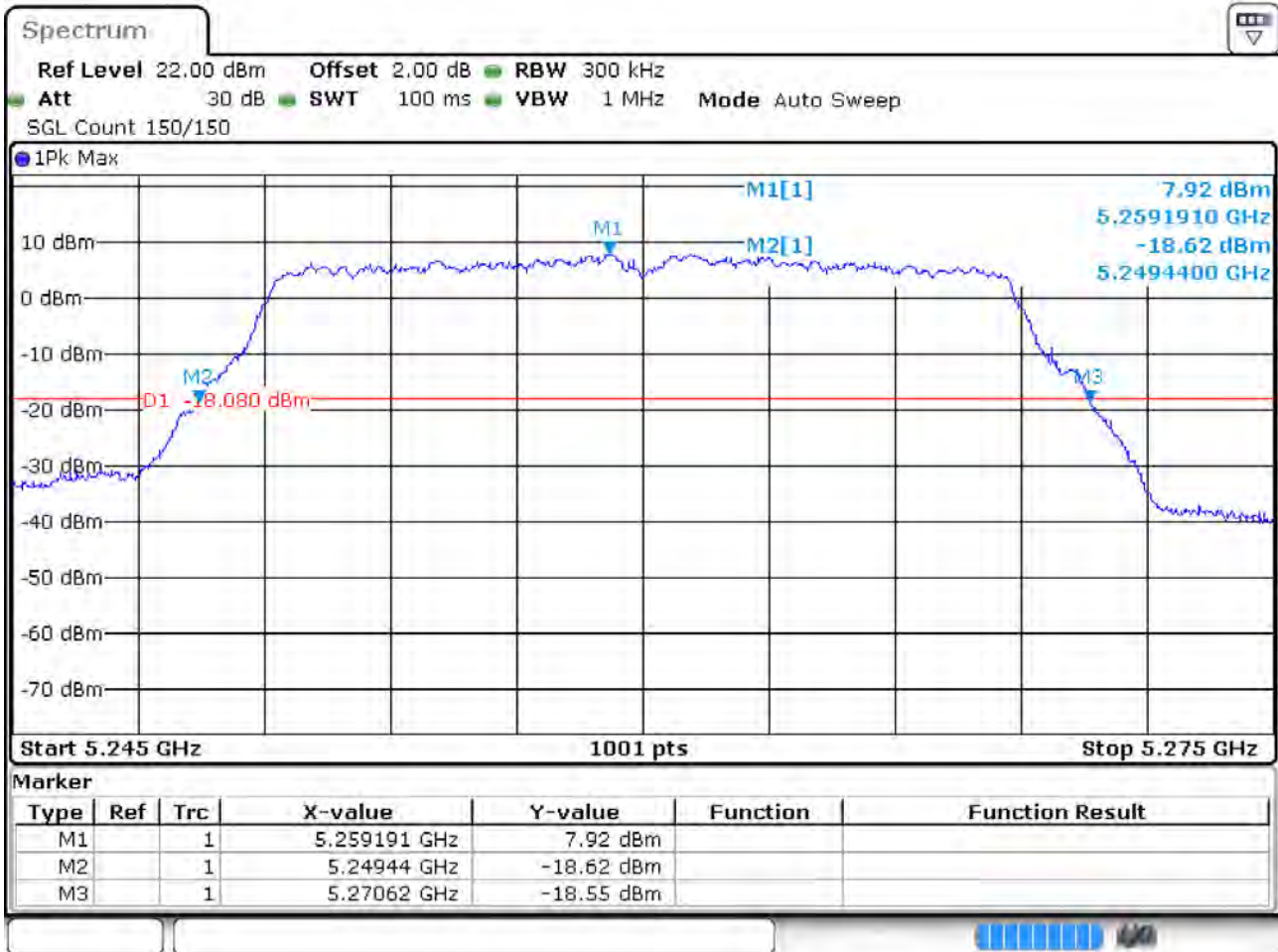
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4.5.2.28 11AC20\_52 ANT 1

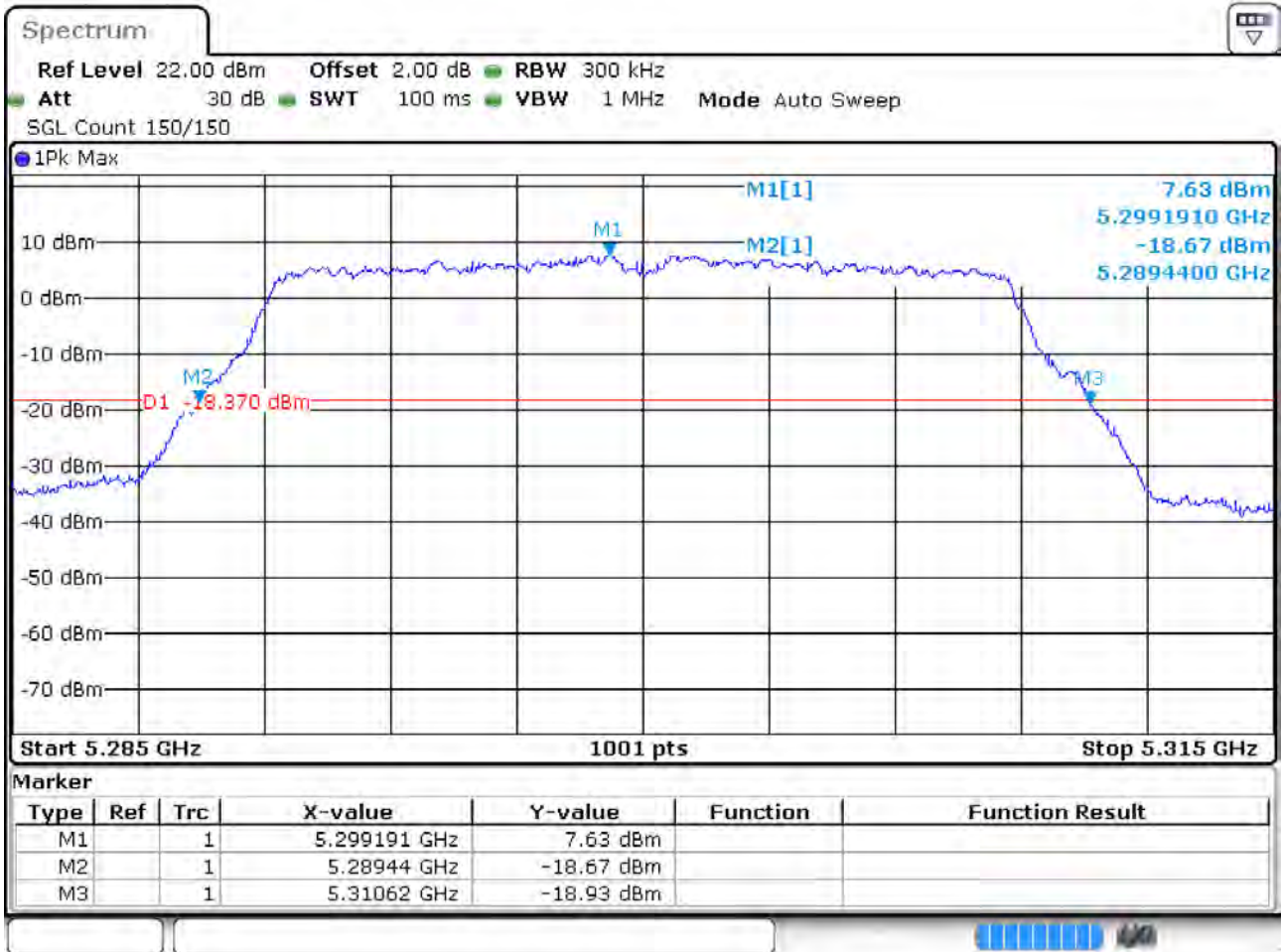


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4.5.2.29 11AC20\_60 ANT 1



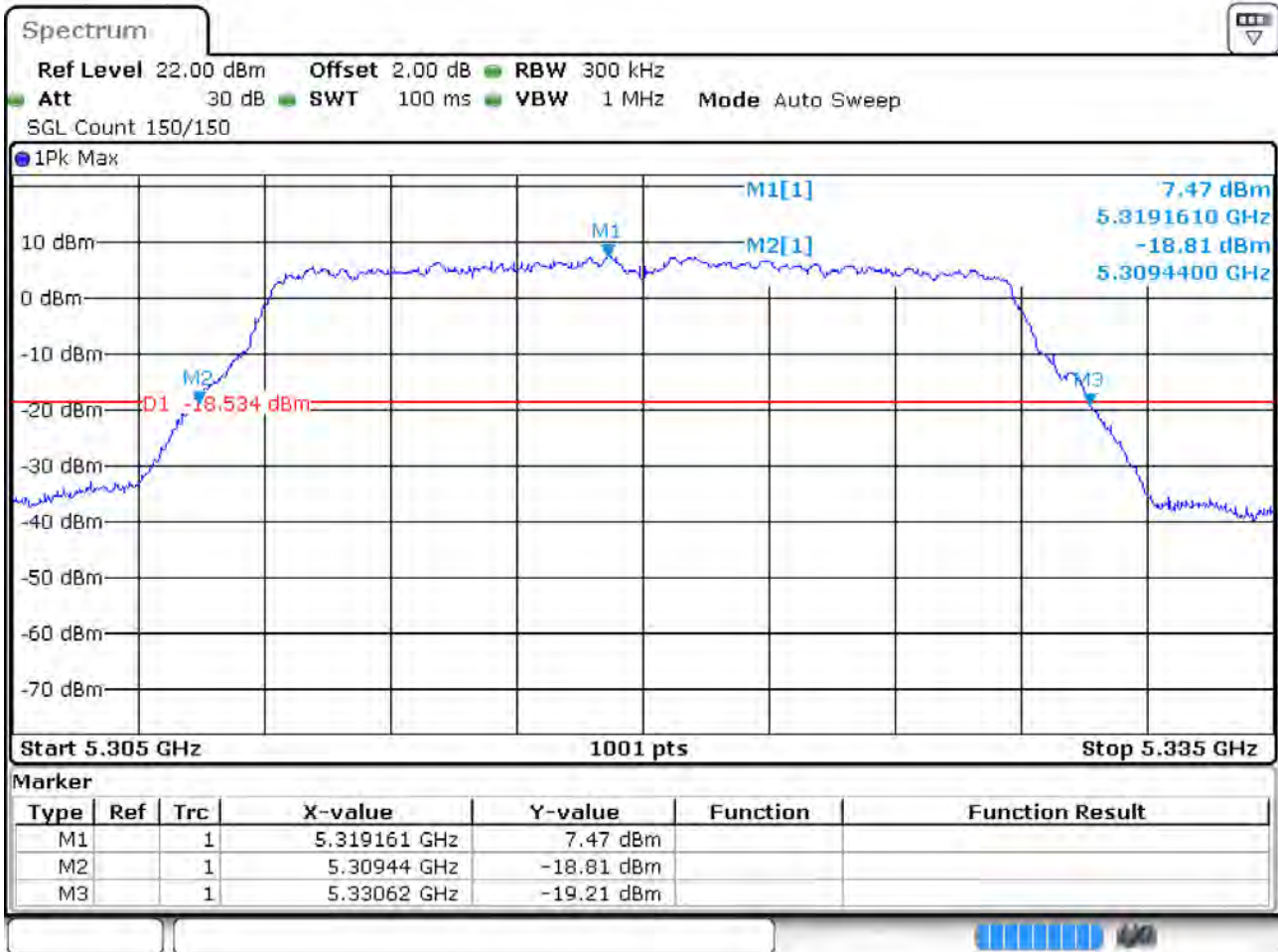
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4.5.2.30 11AC20\_64 ANT 1



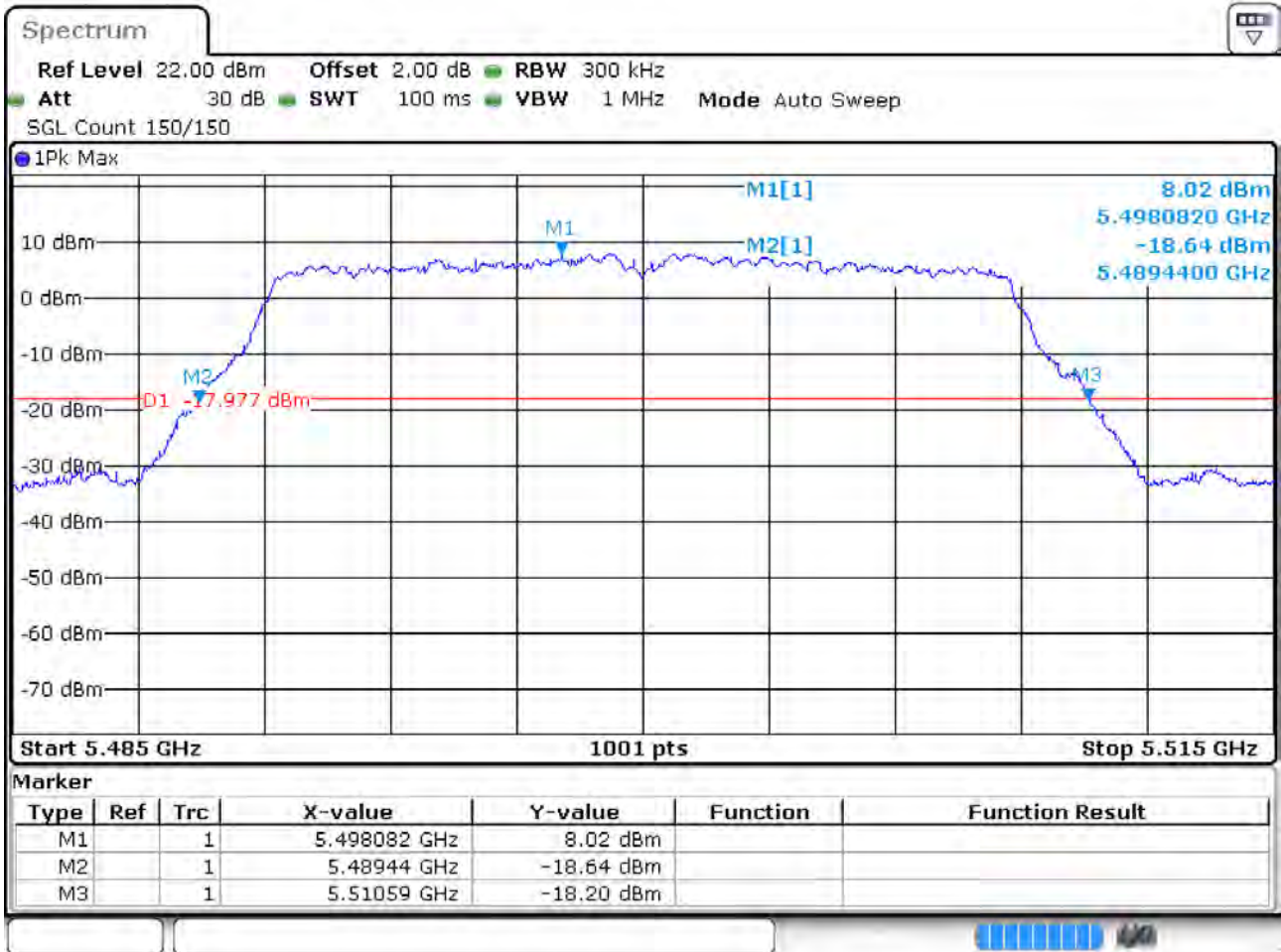
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4.5.2.31 11AC20\_100 ANT 1



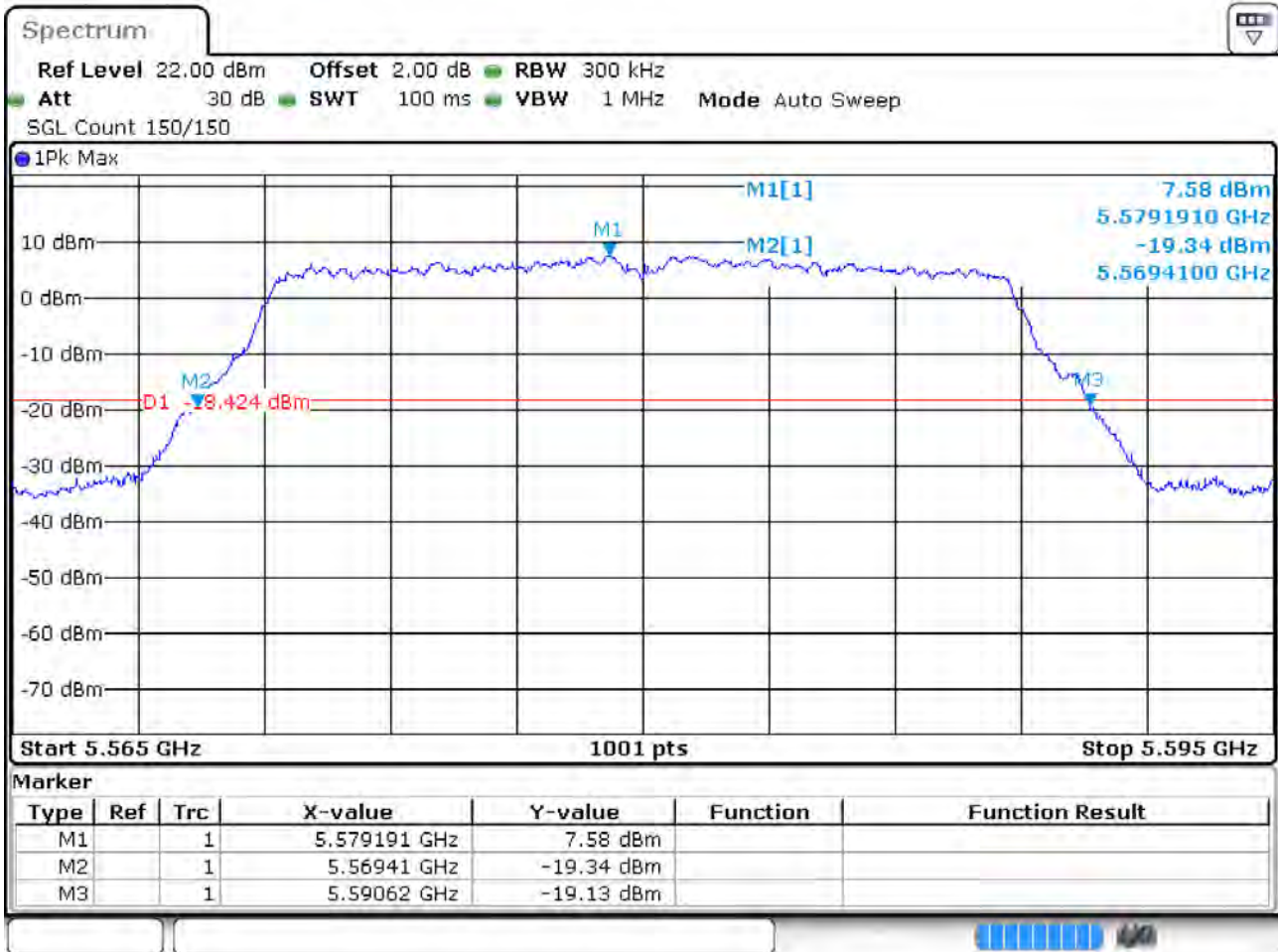
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4.5.2.32 11AC20\_116 ANT 1



Date: 11.SEP.2020 17:46:02



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**4.5.2.33 11AC20\_140 ANT 1**



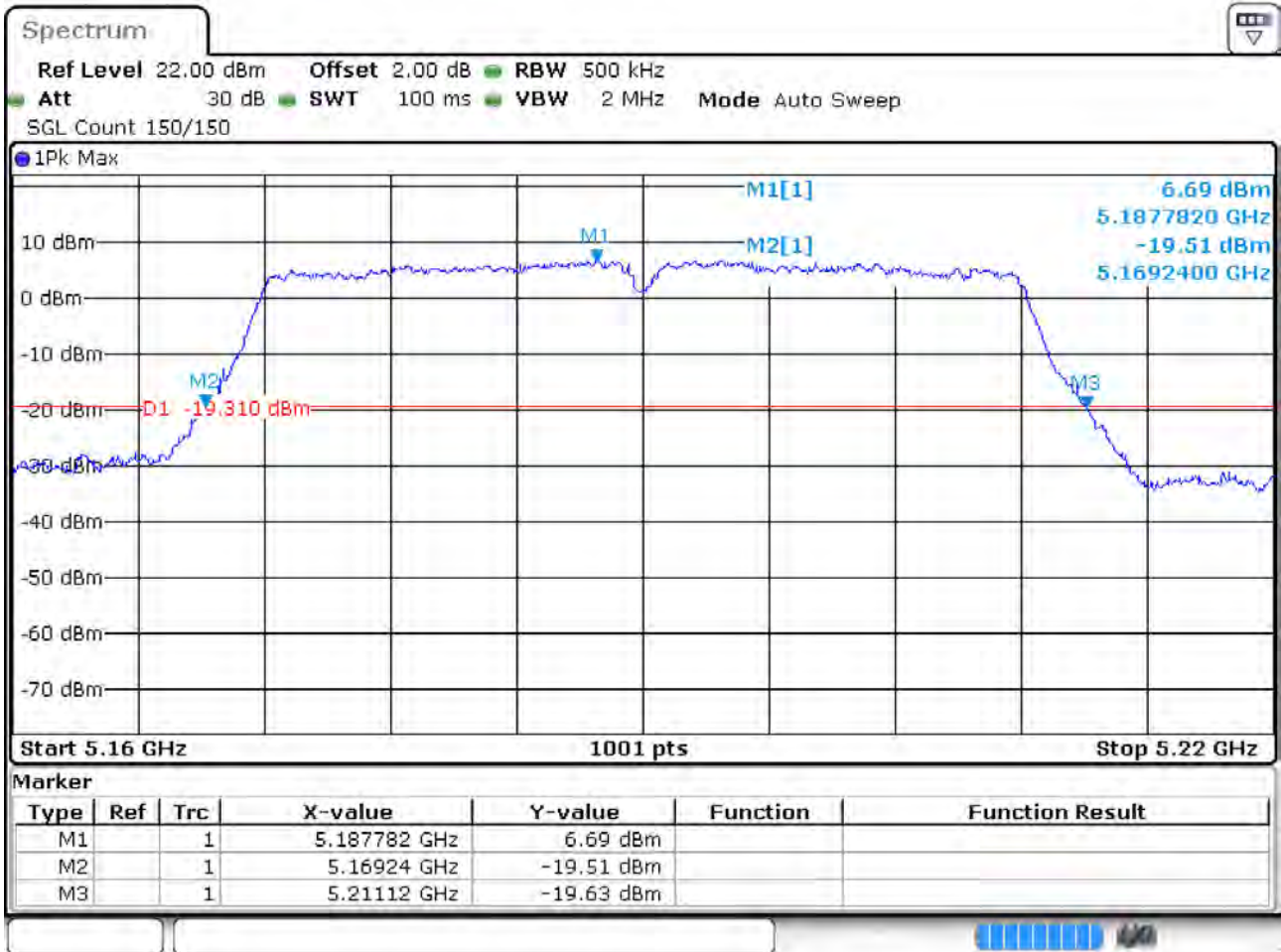
Date: 11.SEP.2020 17:47:25



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4.5.2.34 11AC40\_38 ANT 1

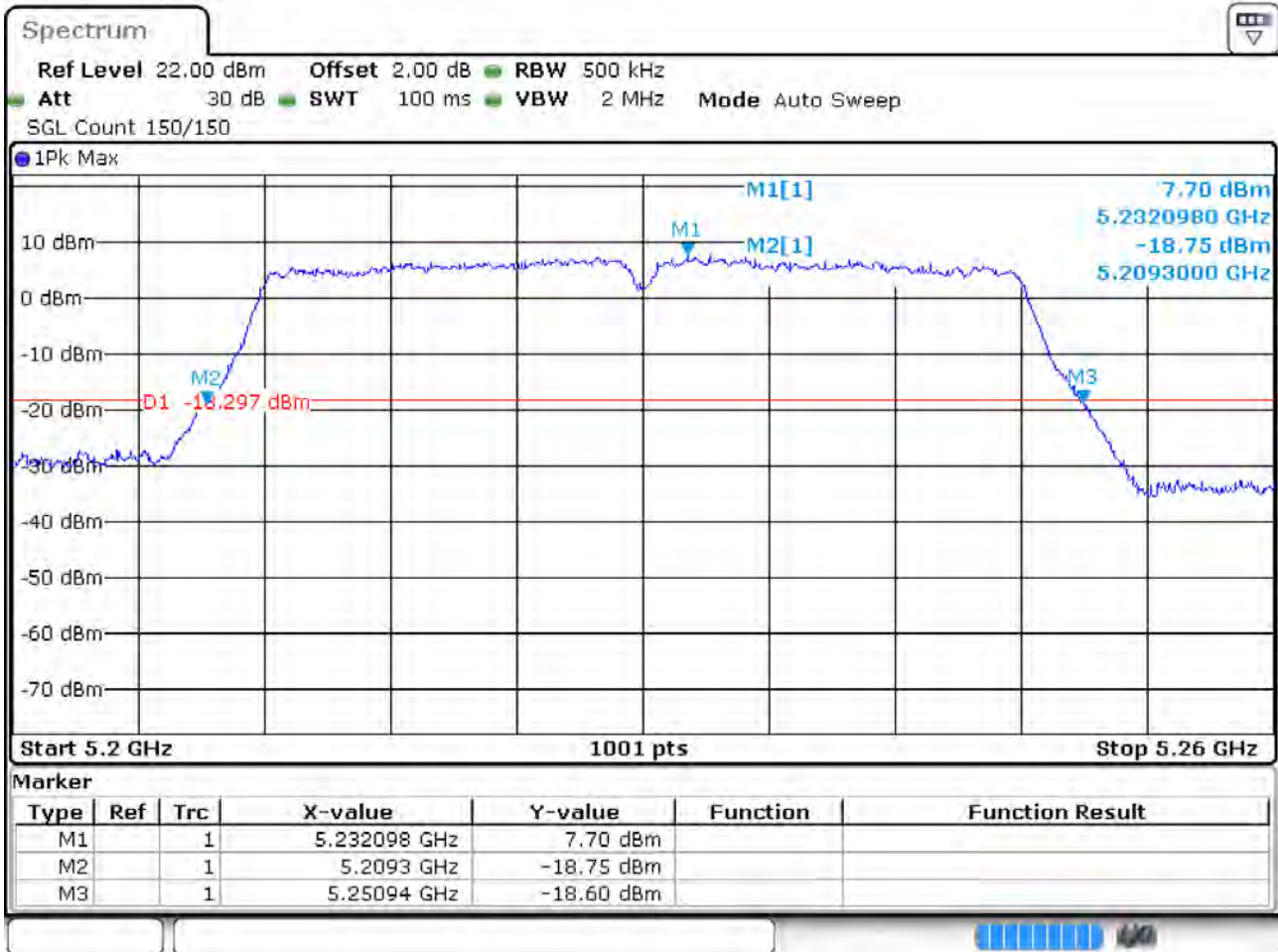


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4.5.2.35 11AC40\_46 ANT 1

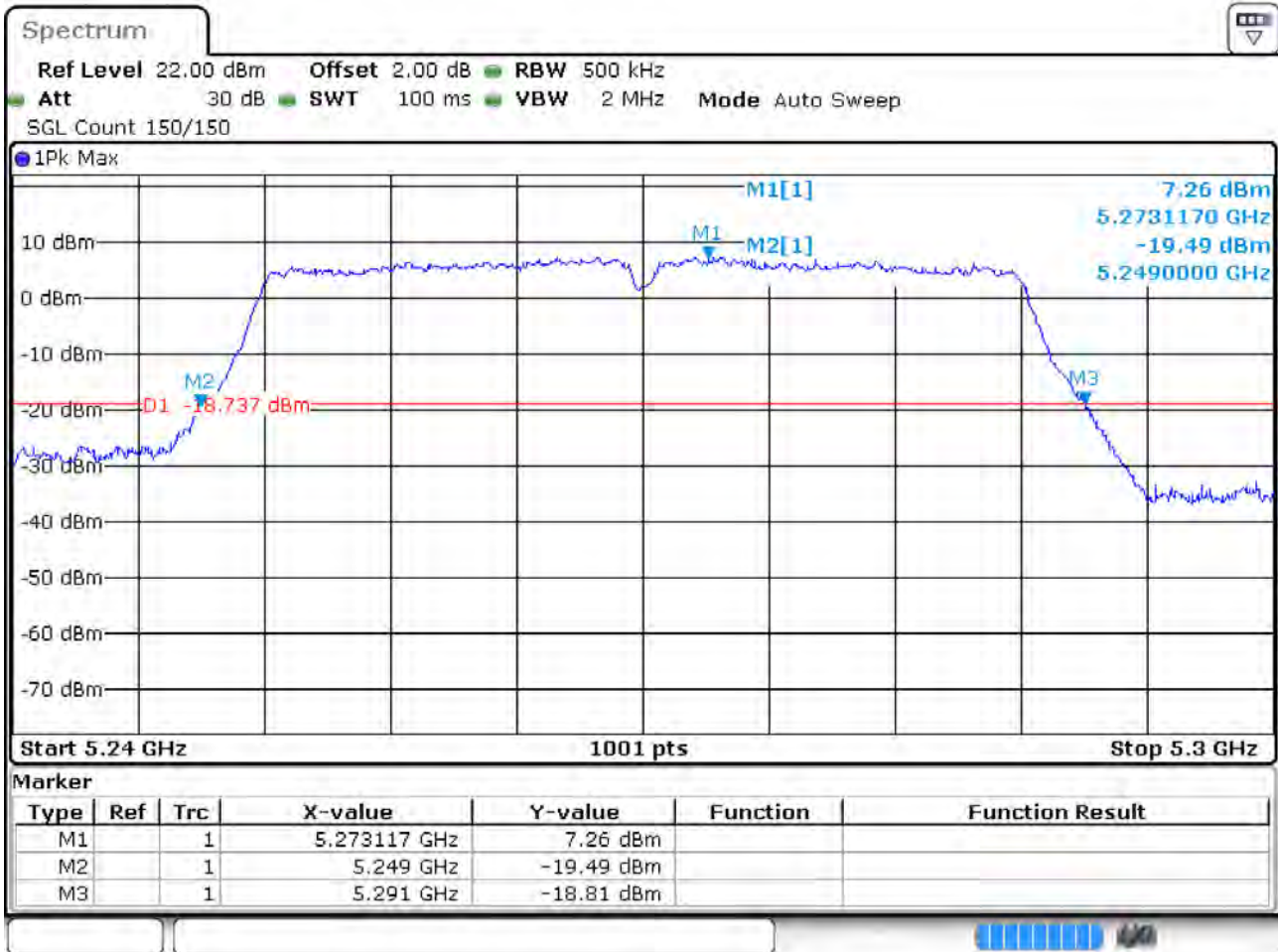


Date: 11.SEP.2020 17:57:32



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4.5.2.36 11AC40\_54 ANT 1



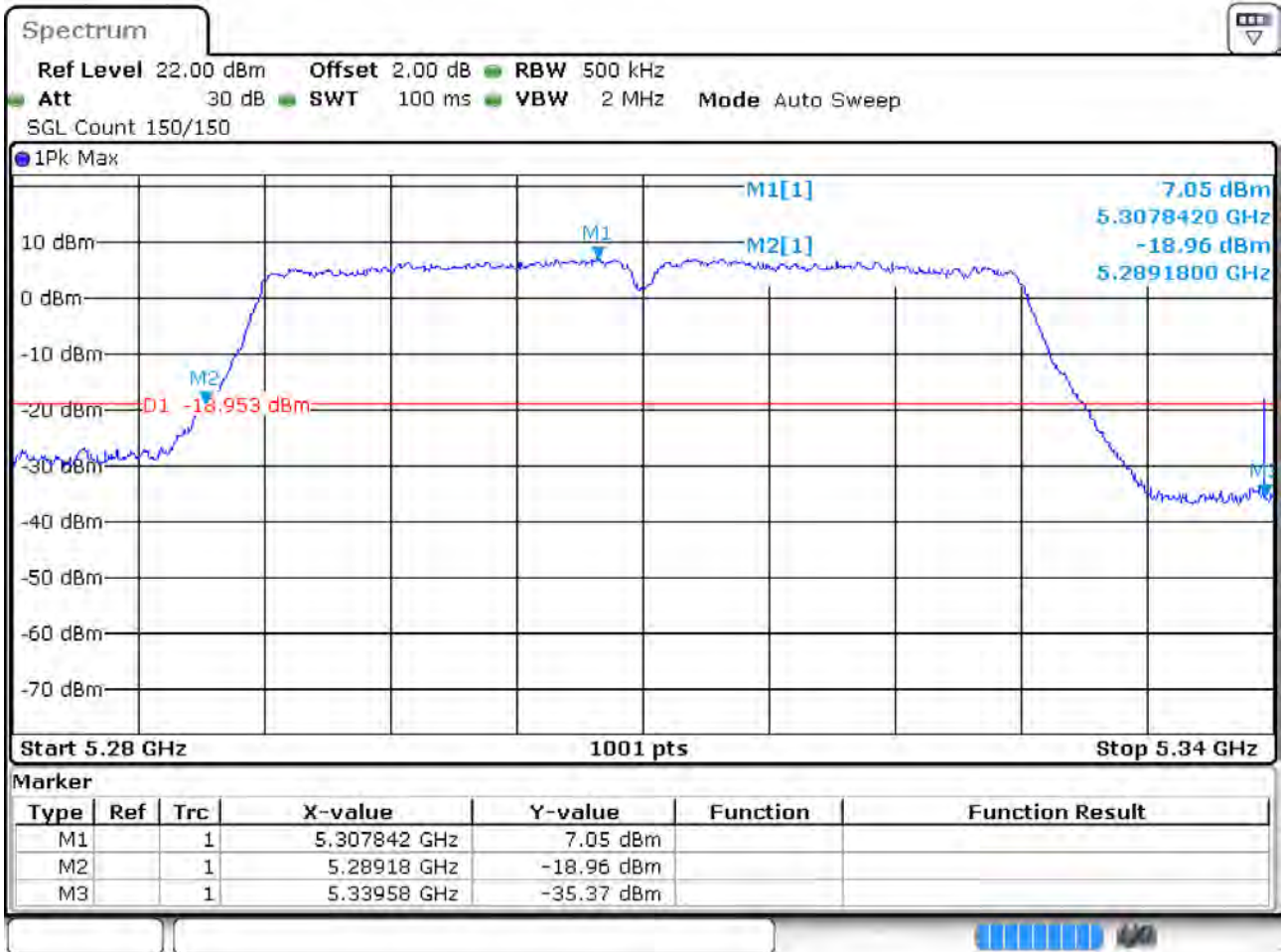
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4.5.2.37 11AC40\_62 ANT 1



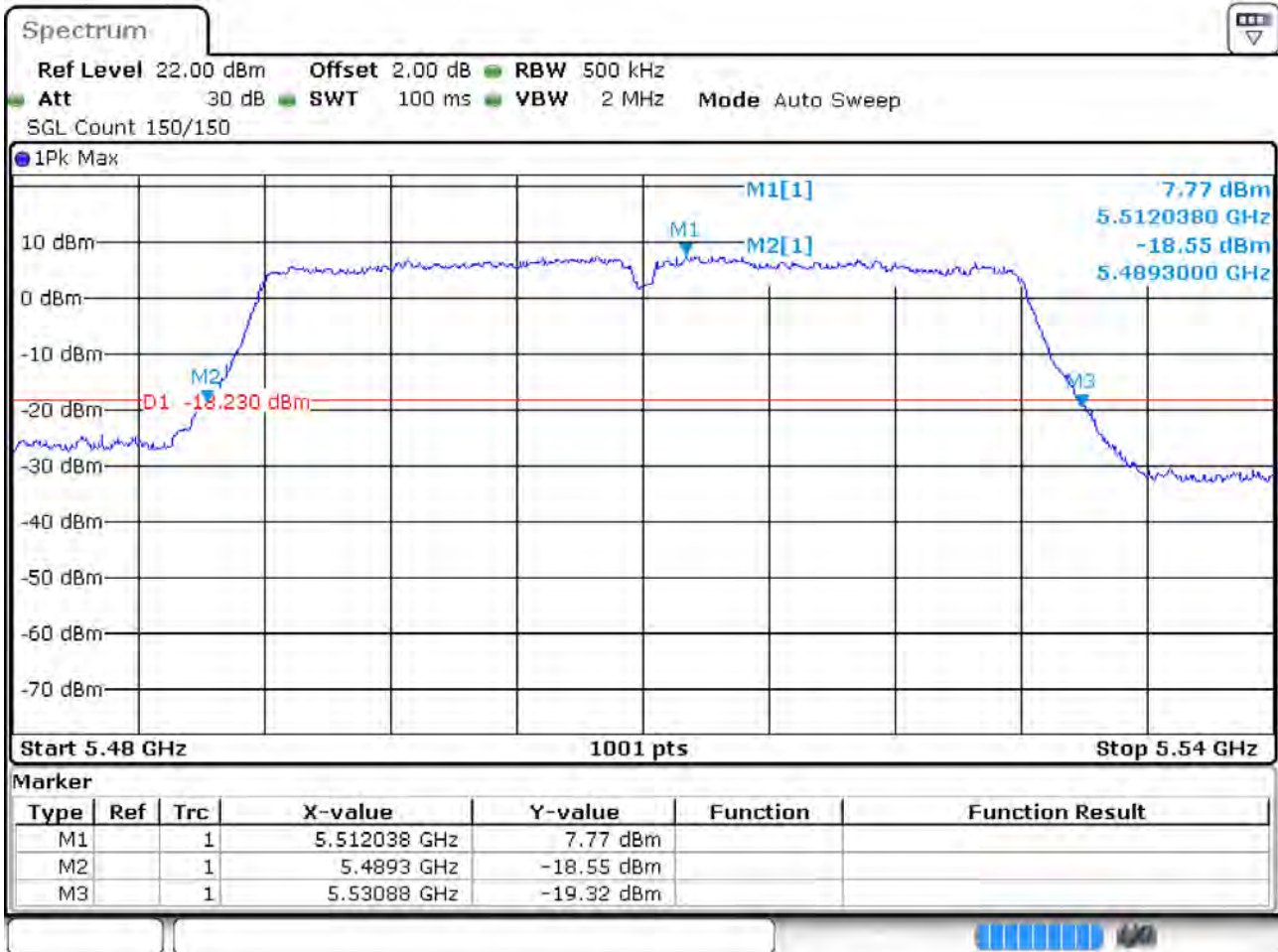
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4.5.2.38 11AC40\_102 ANT 1

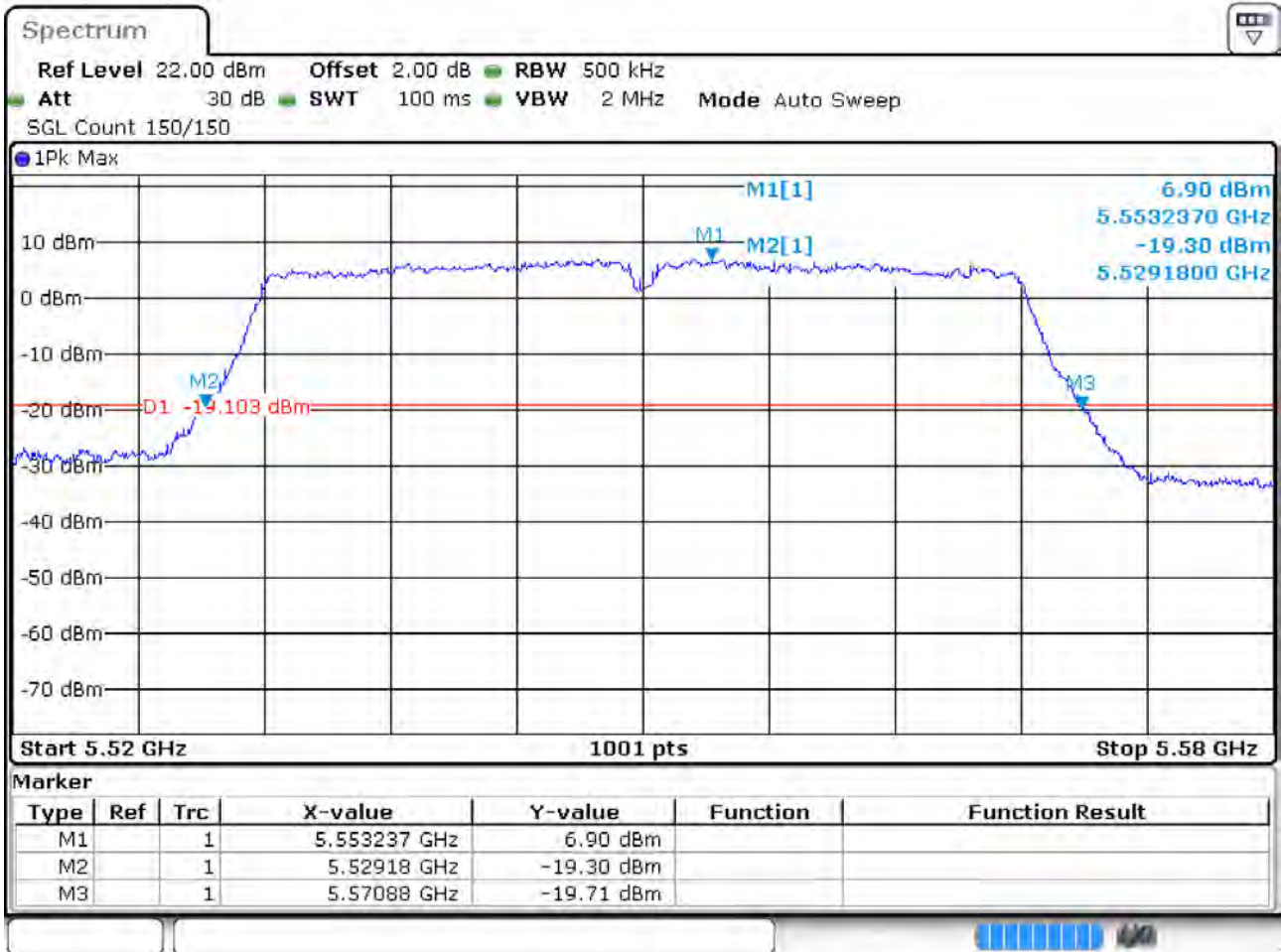


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4.5.2.39 11AC40\_110 ANT 1



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**4.5.2.40 11AC40\_134 ANT 1**



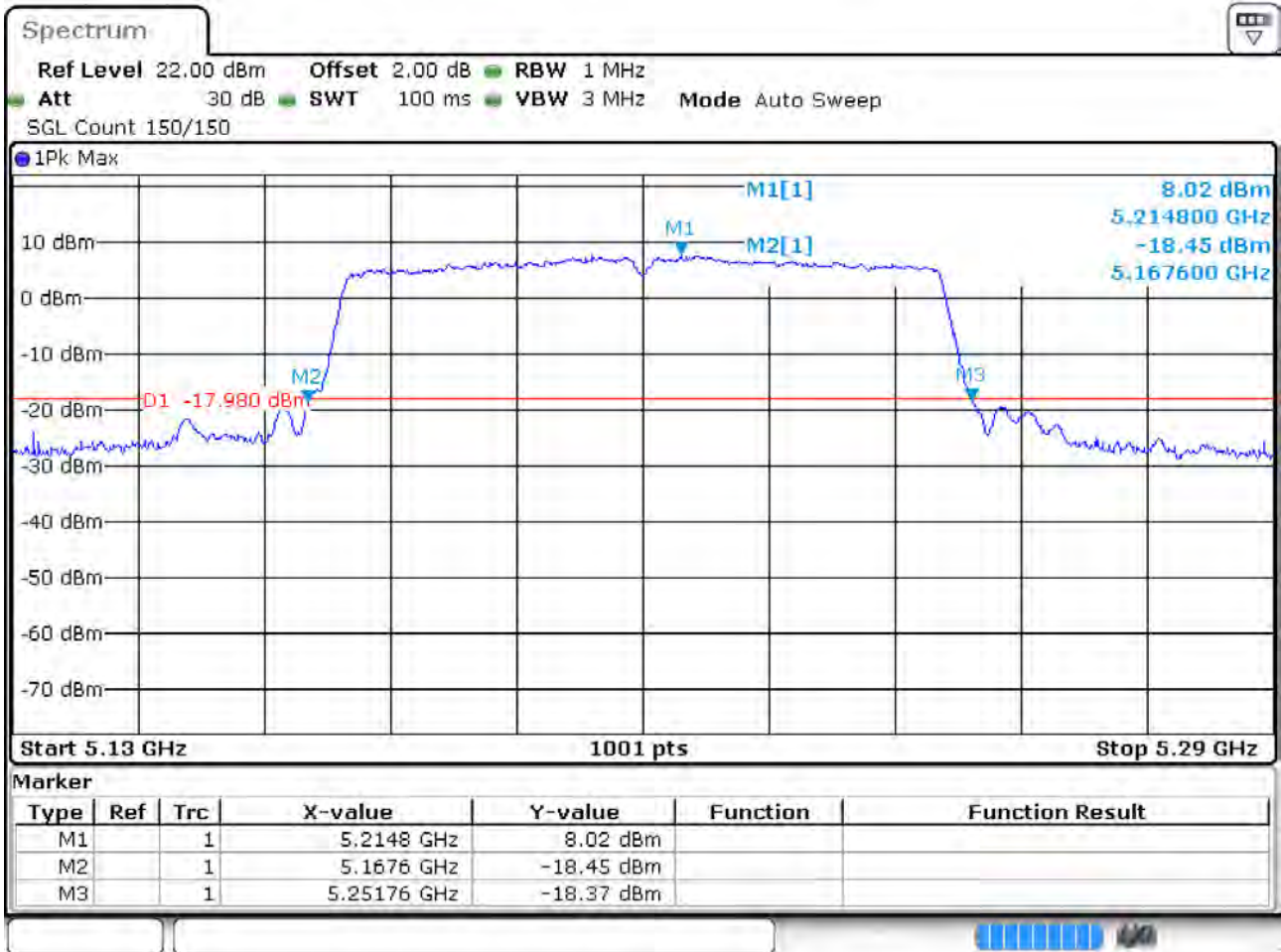
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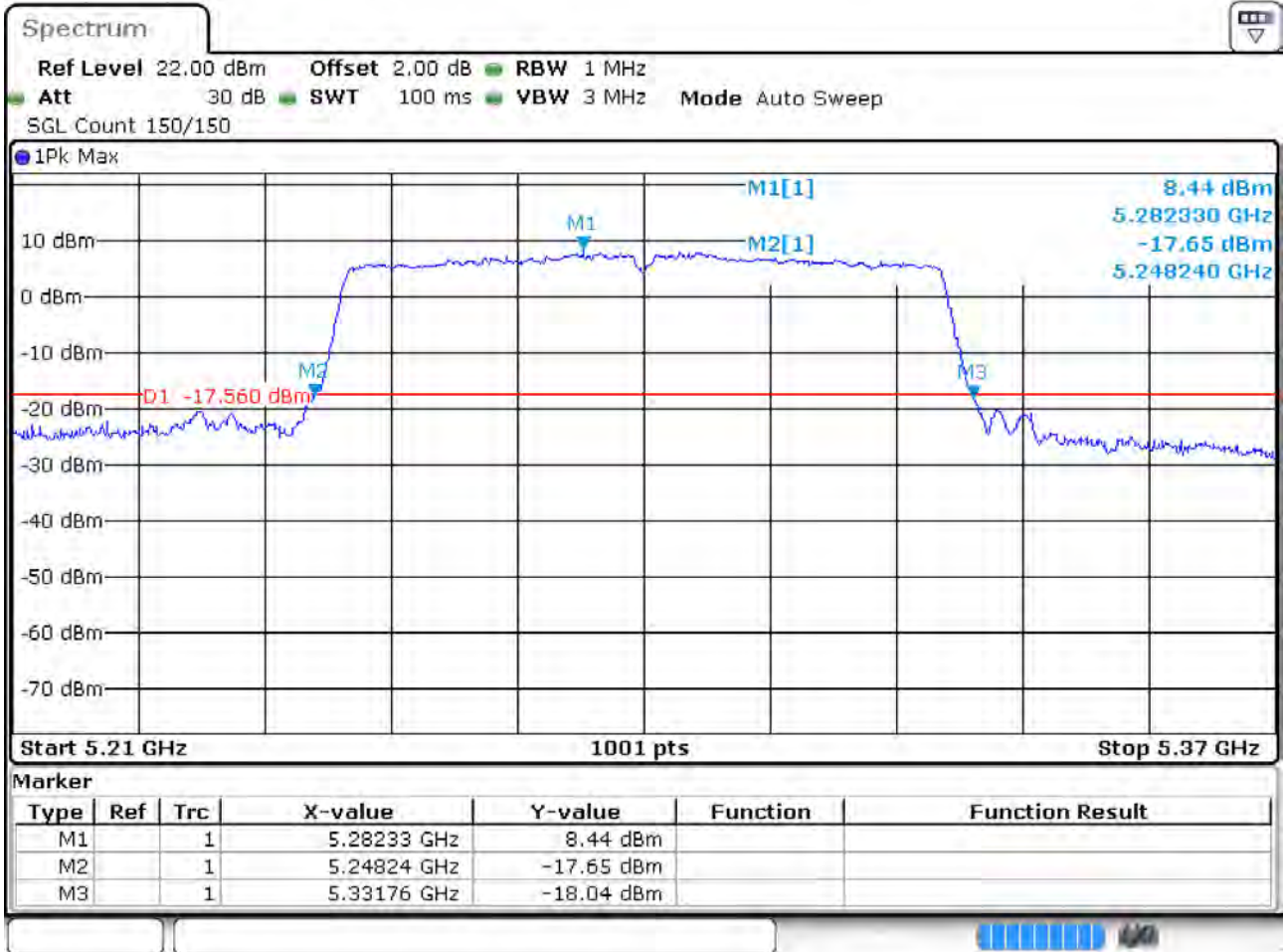
4.5.2.41 11AC80\_42 ANT 1



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4.5.2.42 11AC80\_58 ANT 1



Date: 11.SEP.2020 19:46:20



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4.5.2.43 11AC80\_106 ANT 1

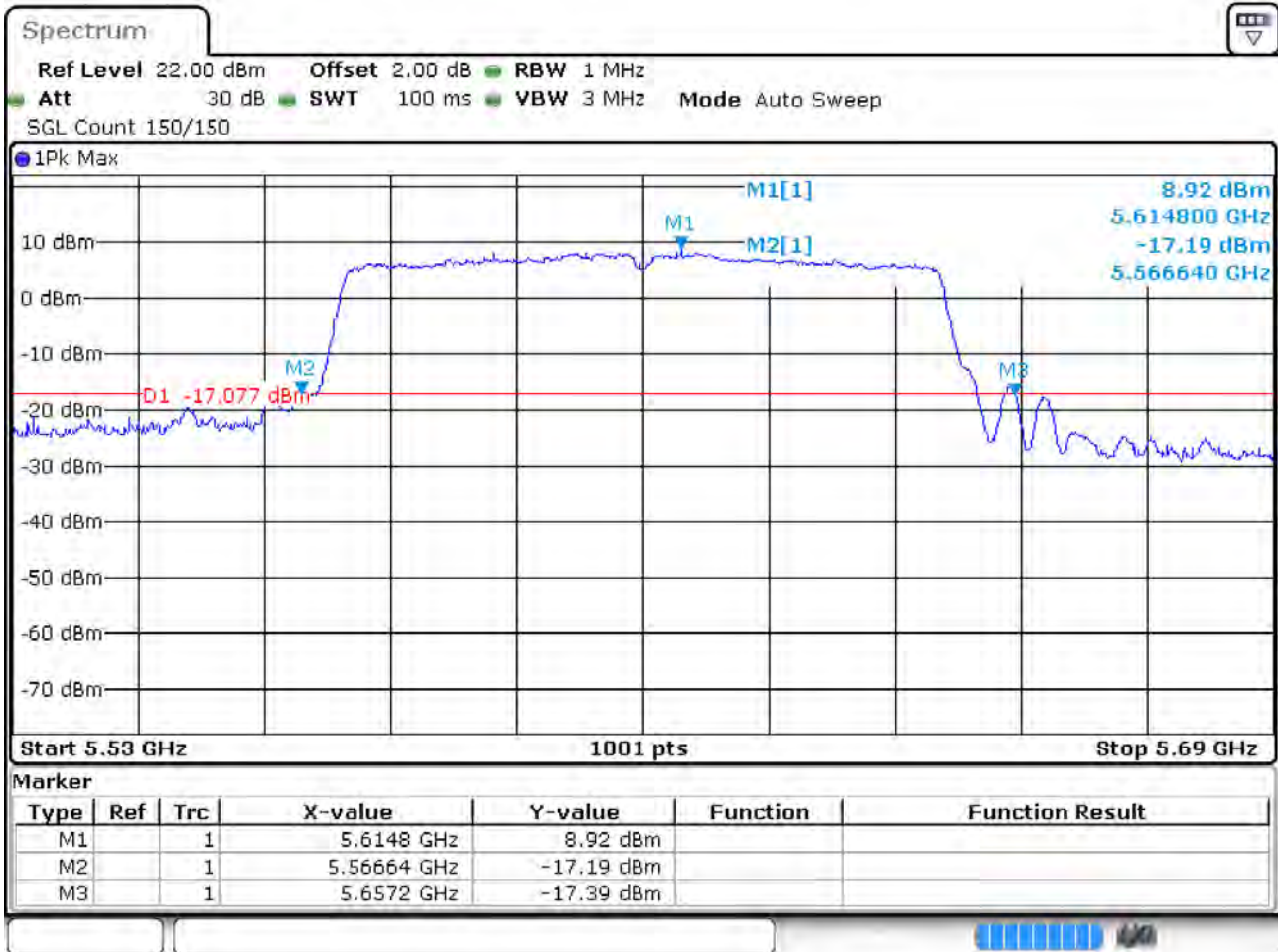


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4.5.2.44 11AC80\_122 ANT 1

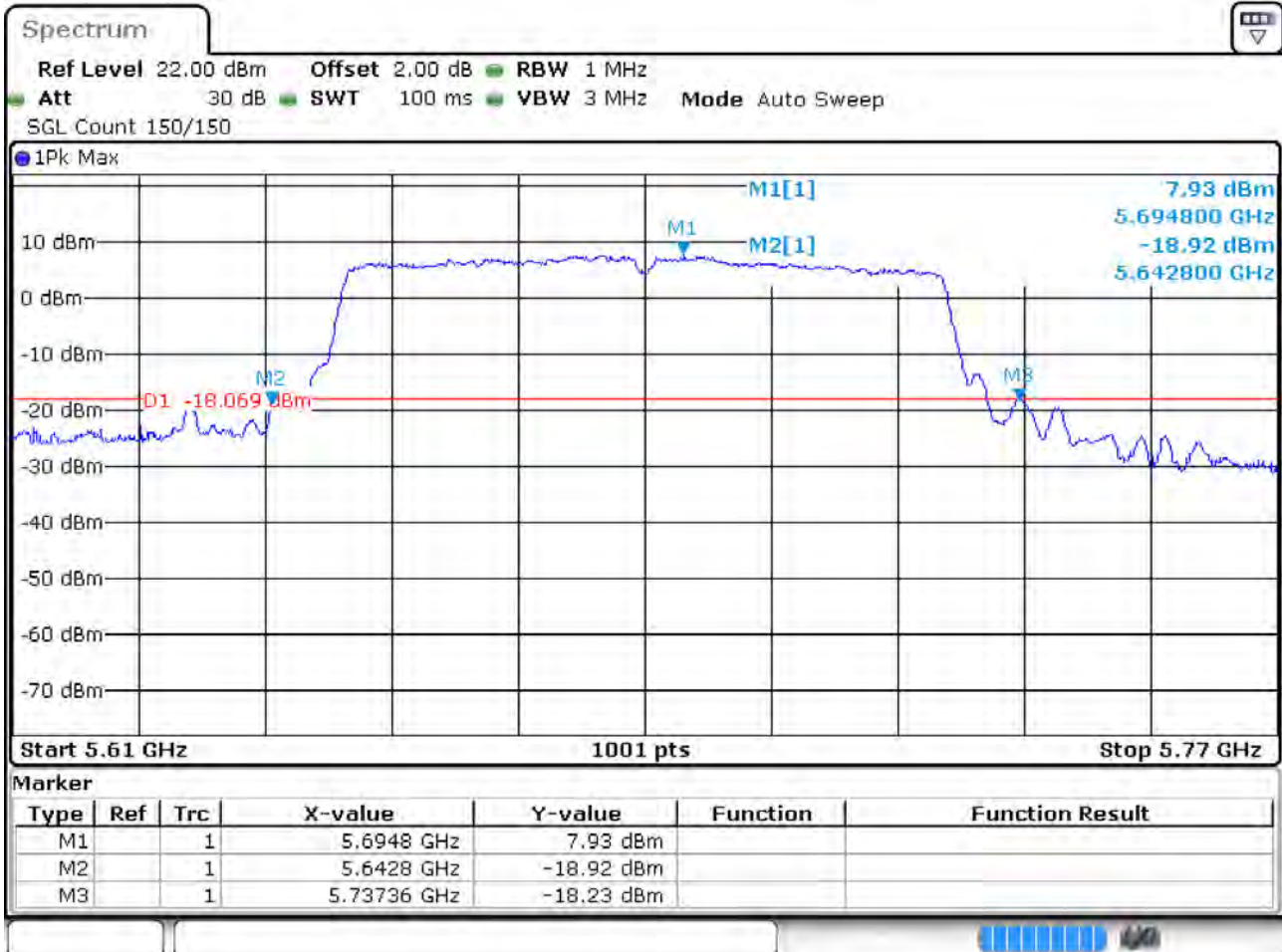


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4.5.2.45 11AC80\_138 ANT 1



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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> </ul> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	



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**4.6.1 Test Results for 6dB Emission Bandwidth**

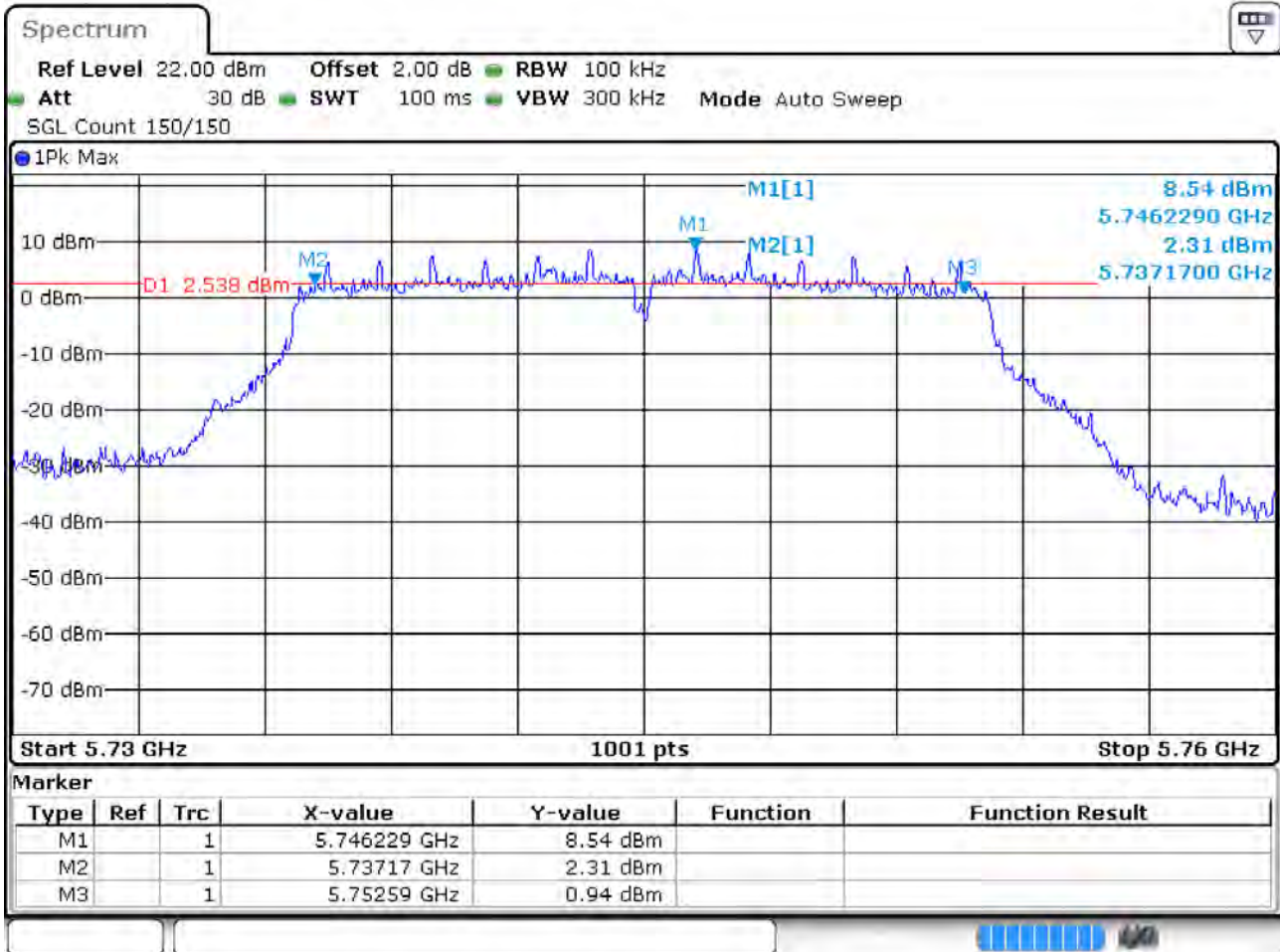
Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Verdict
11A20	149	5745	ANT 1	15.42	PASS
	157	5785	ANT 1	15.42	PASS
	165	5825	ANT 1	15.42	PASS
11N20	149	5745	ANT 1	16.05	PASS
	157	5745	ANT 1	16.05	PASS
	165	5825	ANT 1	16.05	PASS
11N40	151	5755	ANT 1	35.88	PASS
	159	5795	ANT 1	35.52	PASS
11AC20	149	5745	ANT 1	16.05	PASS
	149	5785	ANT 1	16.05	PASS
	165	5825	ANT 1	16.05	PASS
11AC40	151	5755	ANT 1	35.88	PASS
	159	5795	ANT 1	35.88	PASS
11AC80	155	5775	ANT 1	75.68	PASS



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4.6.2 Plots for 6dB Emission Bandwidth  
4.6.2.1 11A20\_149 ANT 1



Date: 11.SEP.2020 16:09:56

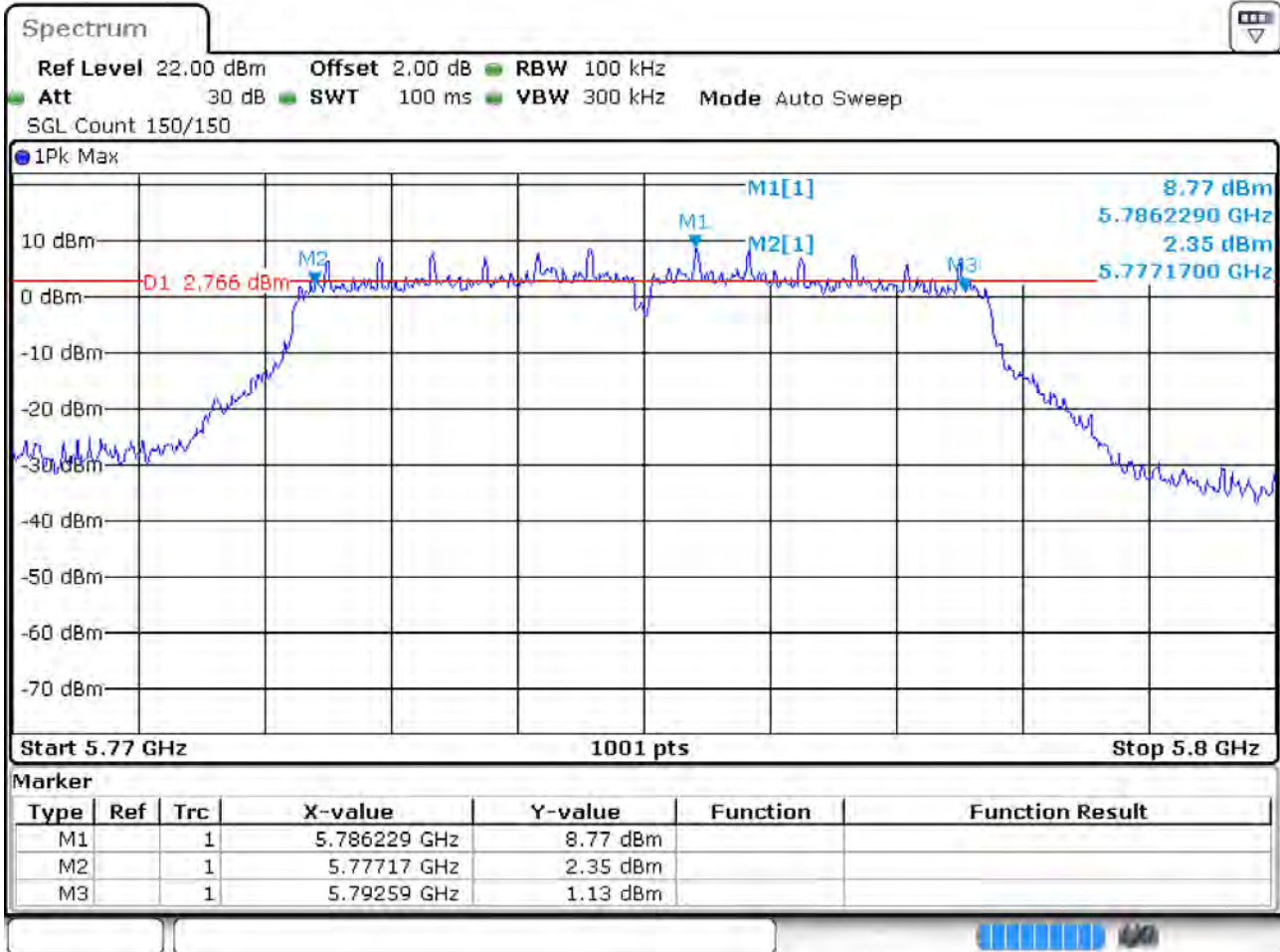


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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.6.2.2 11A20\_157ANT 1

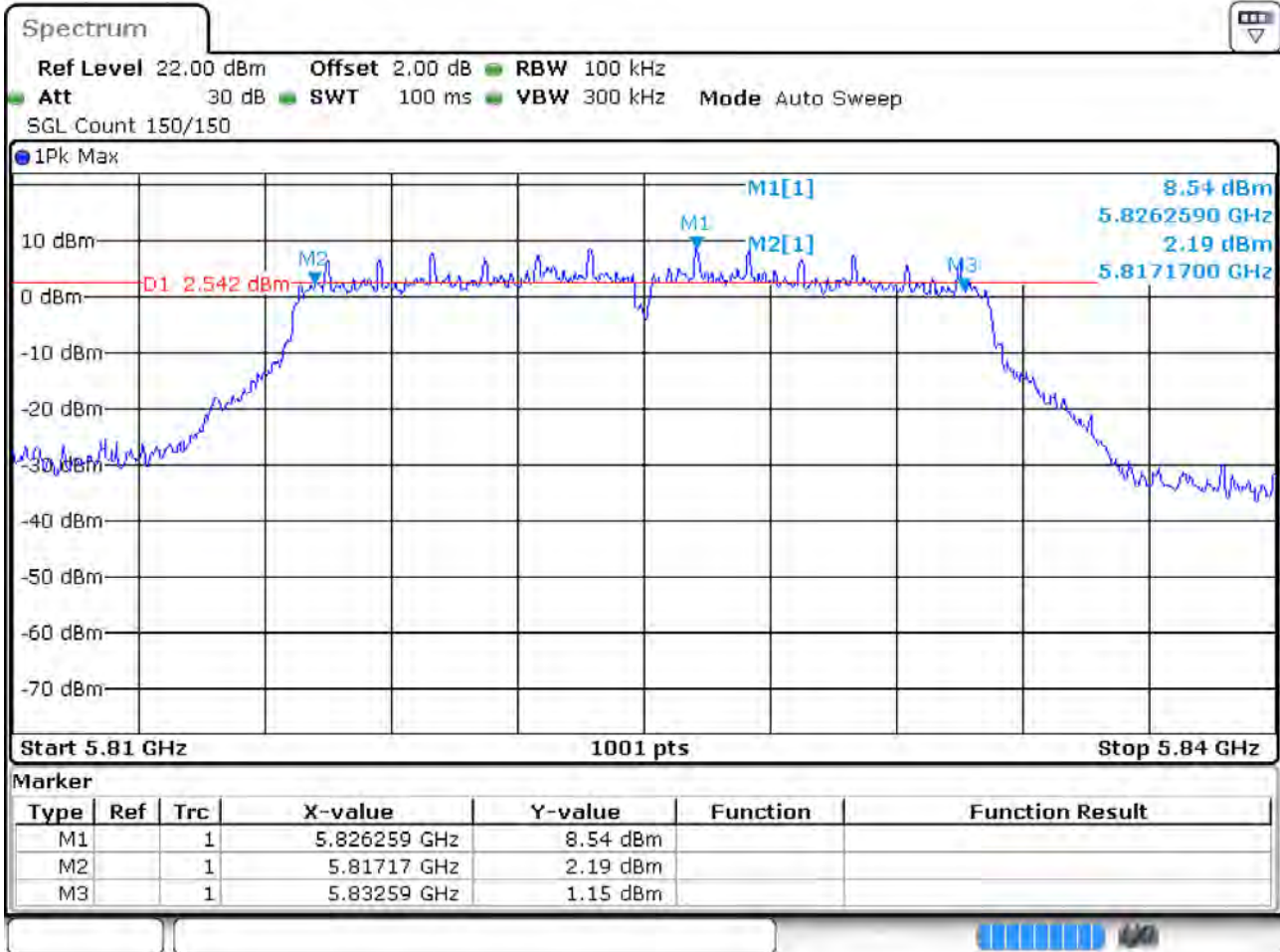


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**4.6.2.3 11A20\_165 ANT 1**

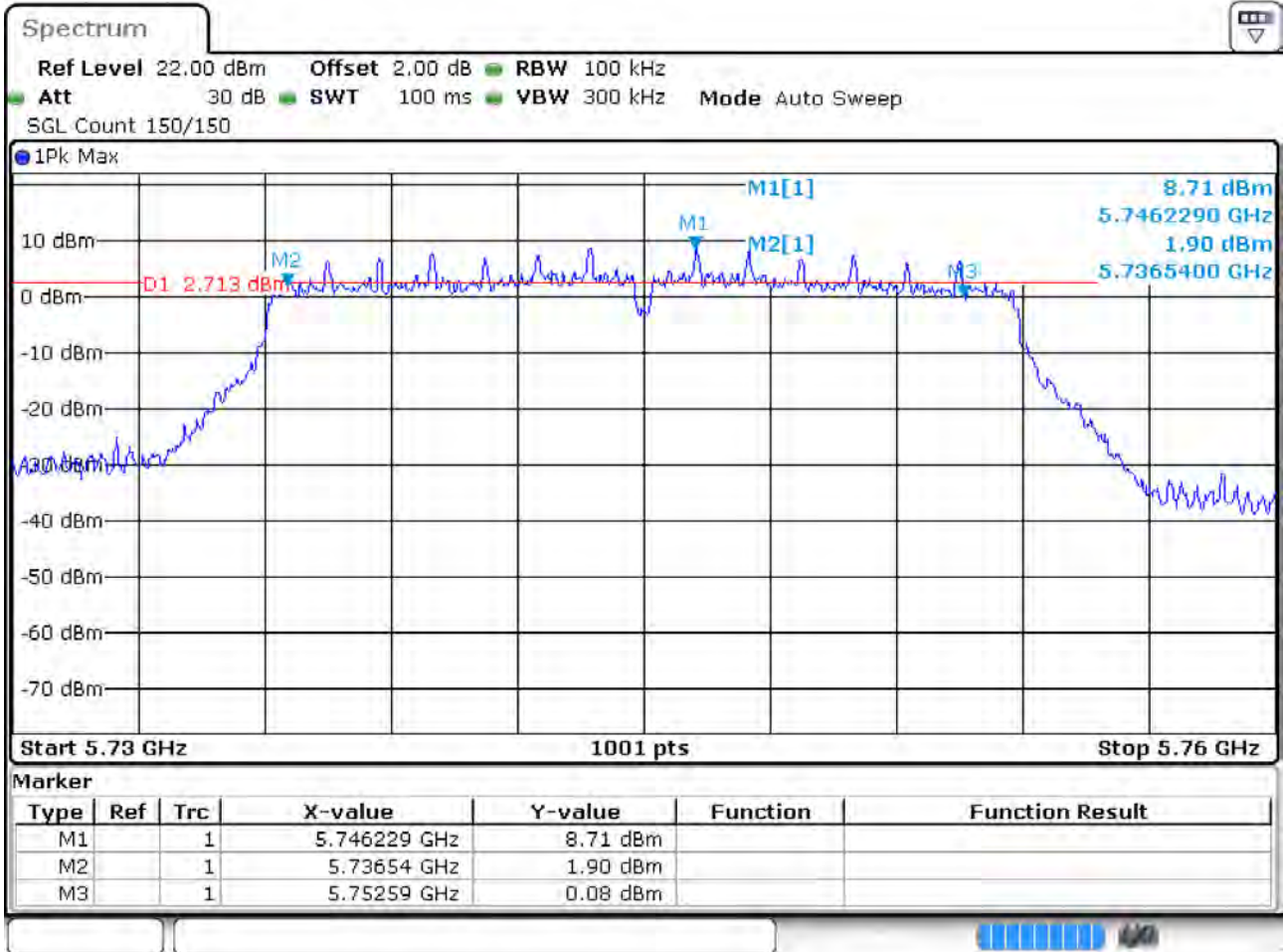


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4.6.2.4 11N20\_149 ANT 1

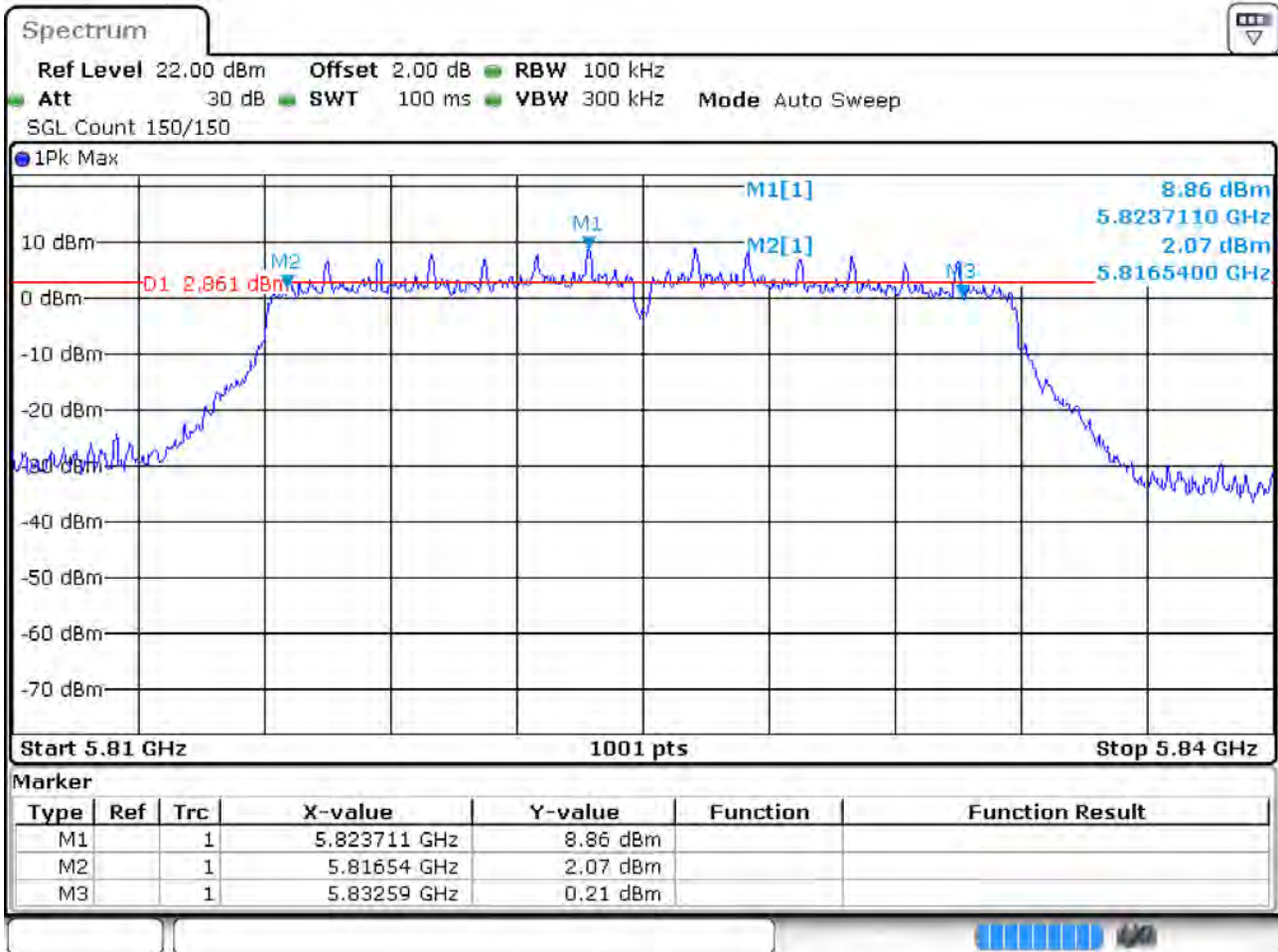


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4.6.2.5 11N20\_165 ANT 1



Date: 11.SEP.2020 17:14:19

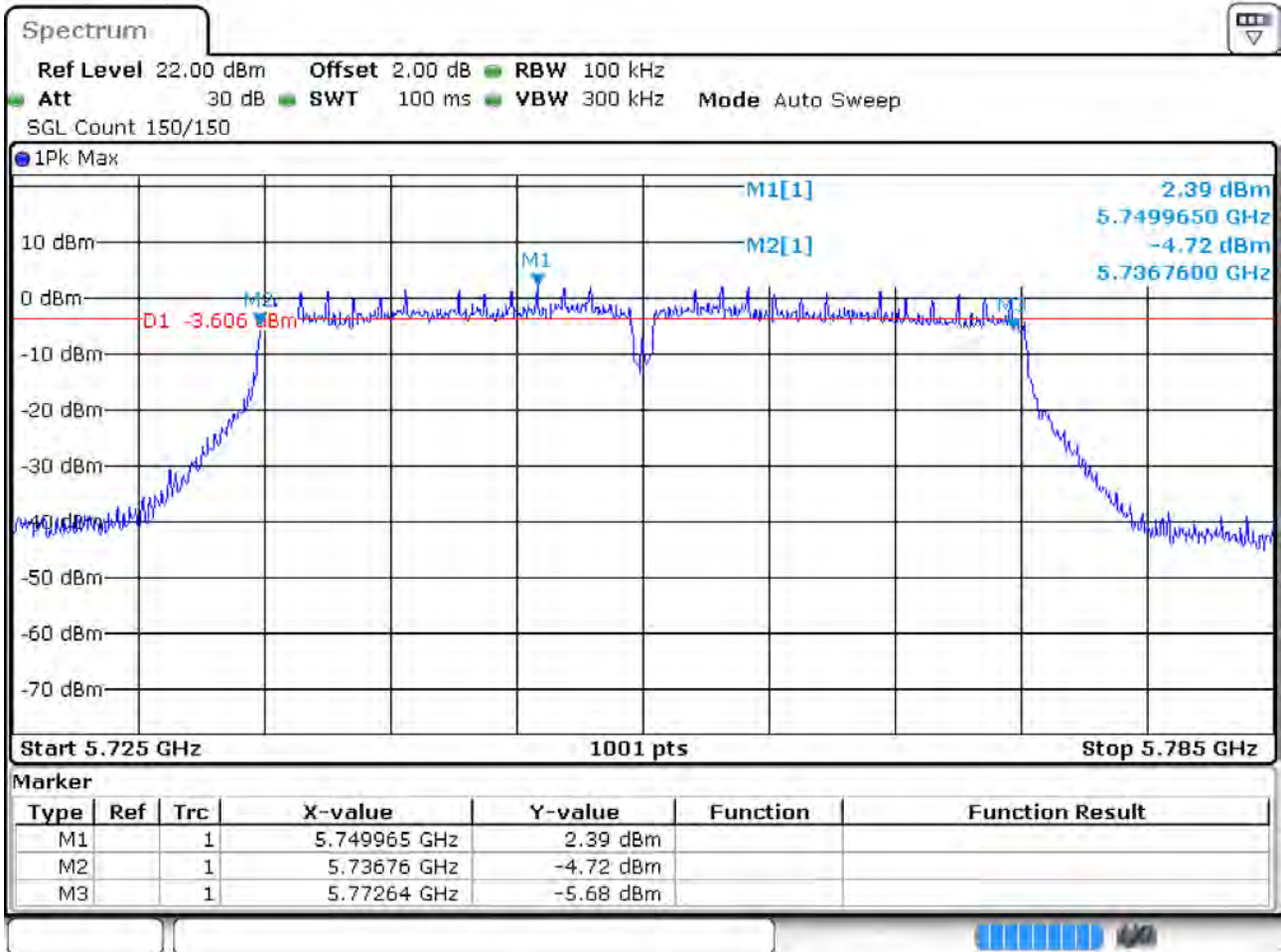


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4.6.2.6 11N40\_151 ANT 1

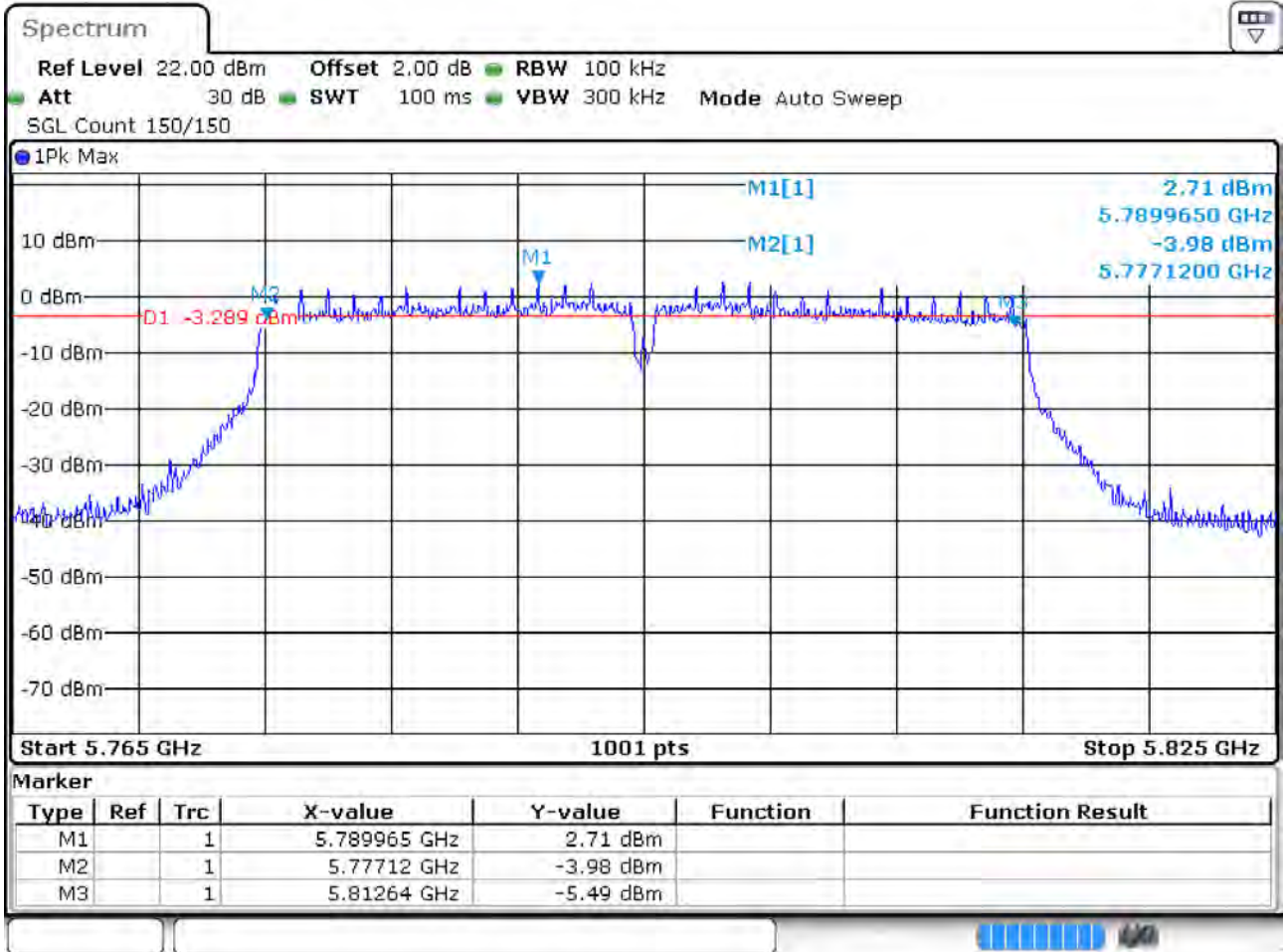


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**4.6.2.7 11N40\_159 ANT 1**



Date: 11.SEP.2020 17:32:06

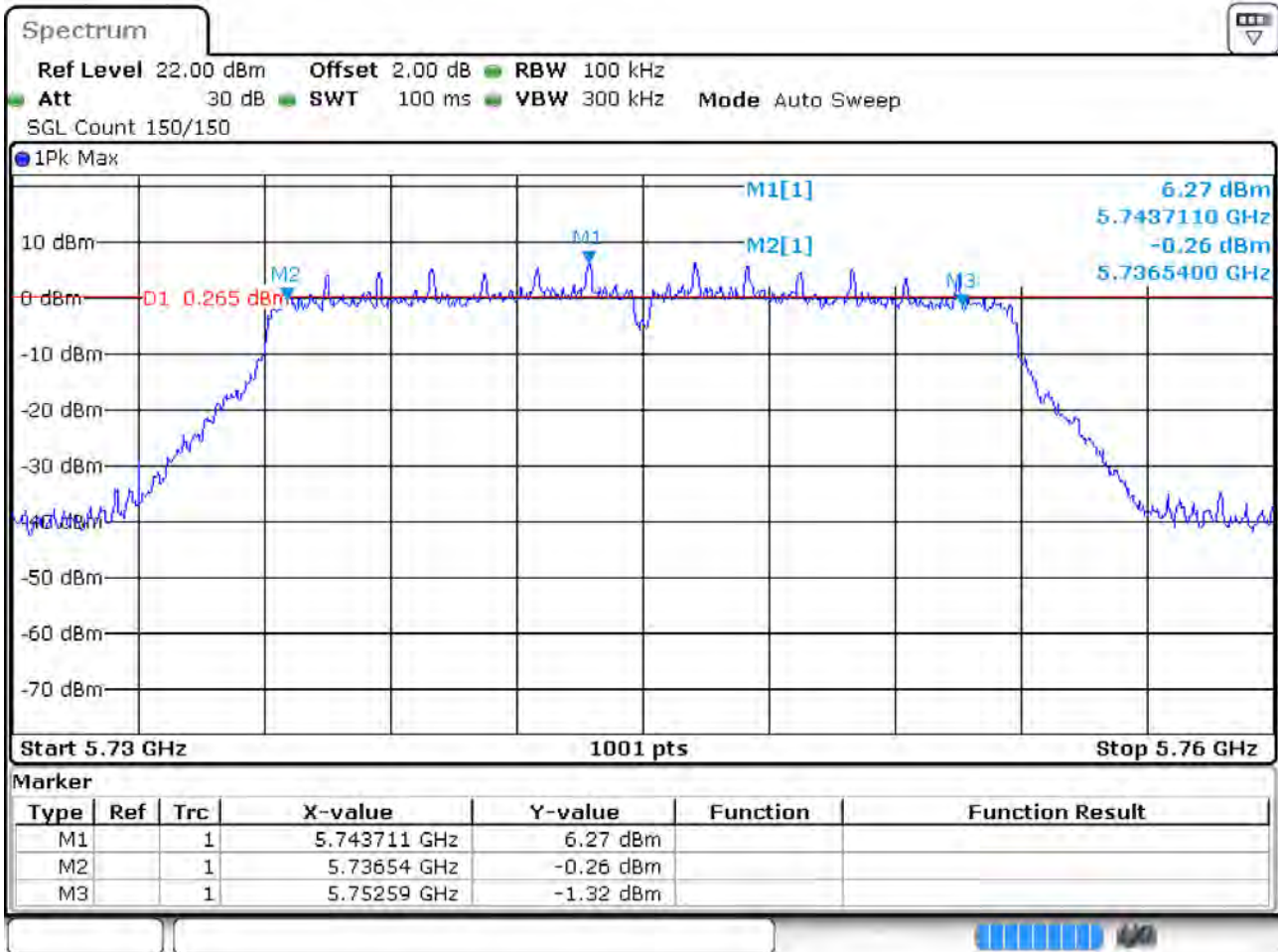


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4.6.2.8 11AC20\_149 ANT 1



Date: 11.SEP.2020 17:48:56

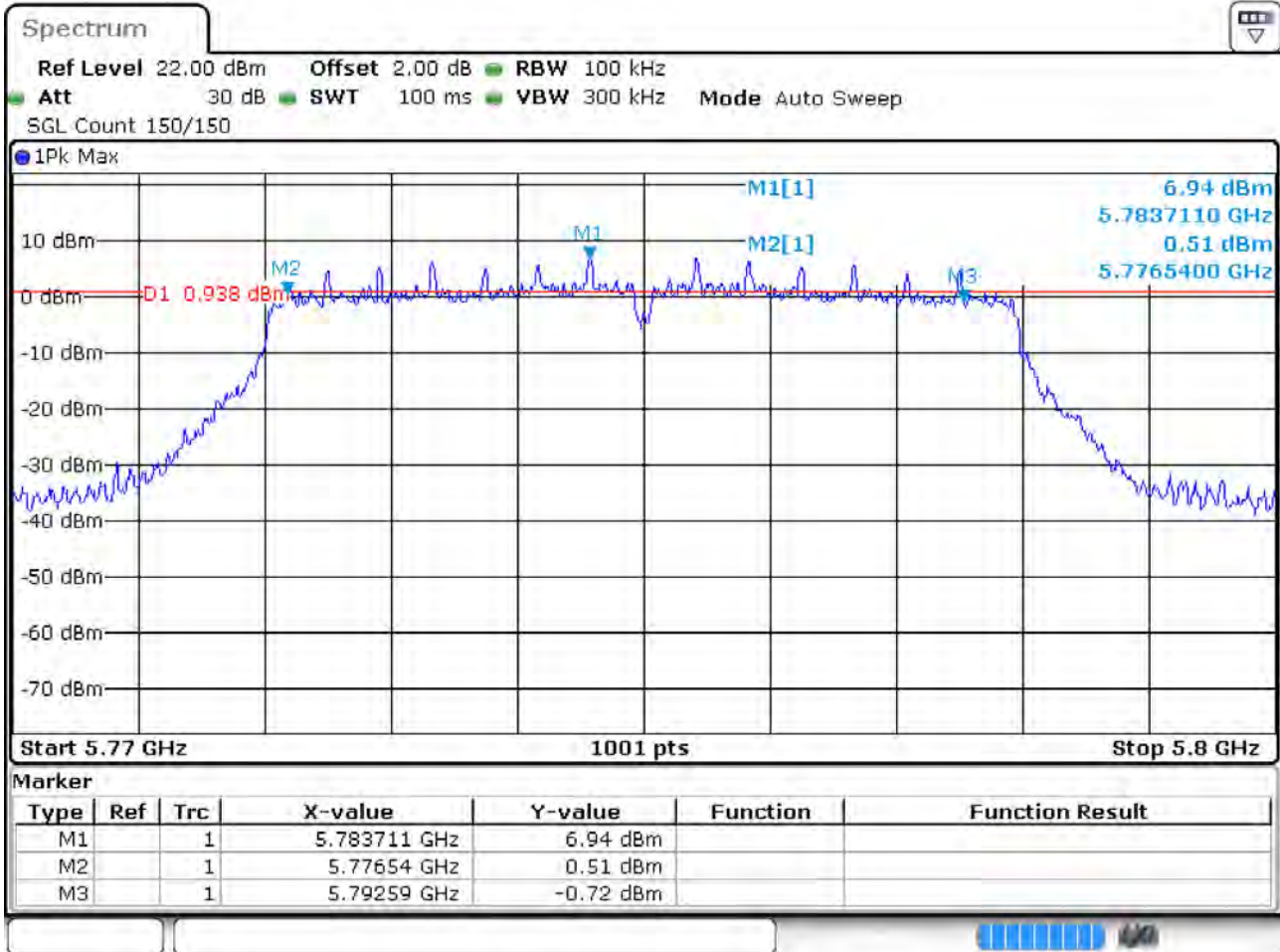


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4.6.2.9 11AC20\_157 ANT 1



Date: 11.SEP.2020 17:50:21

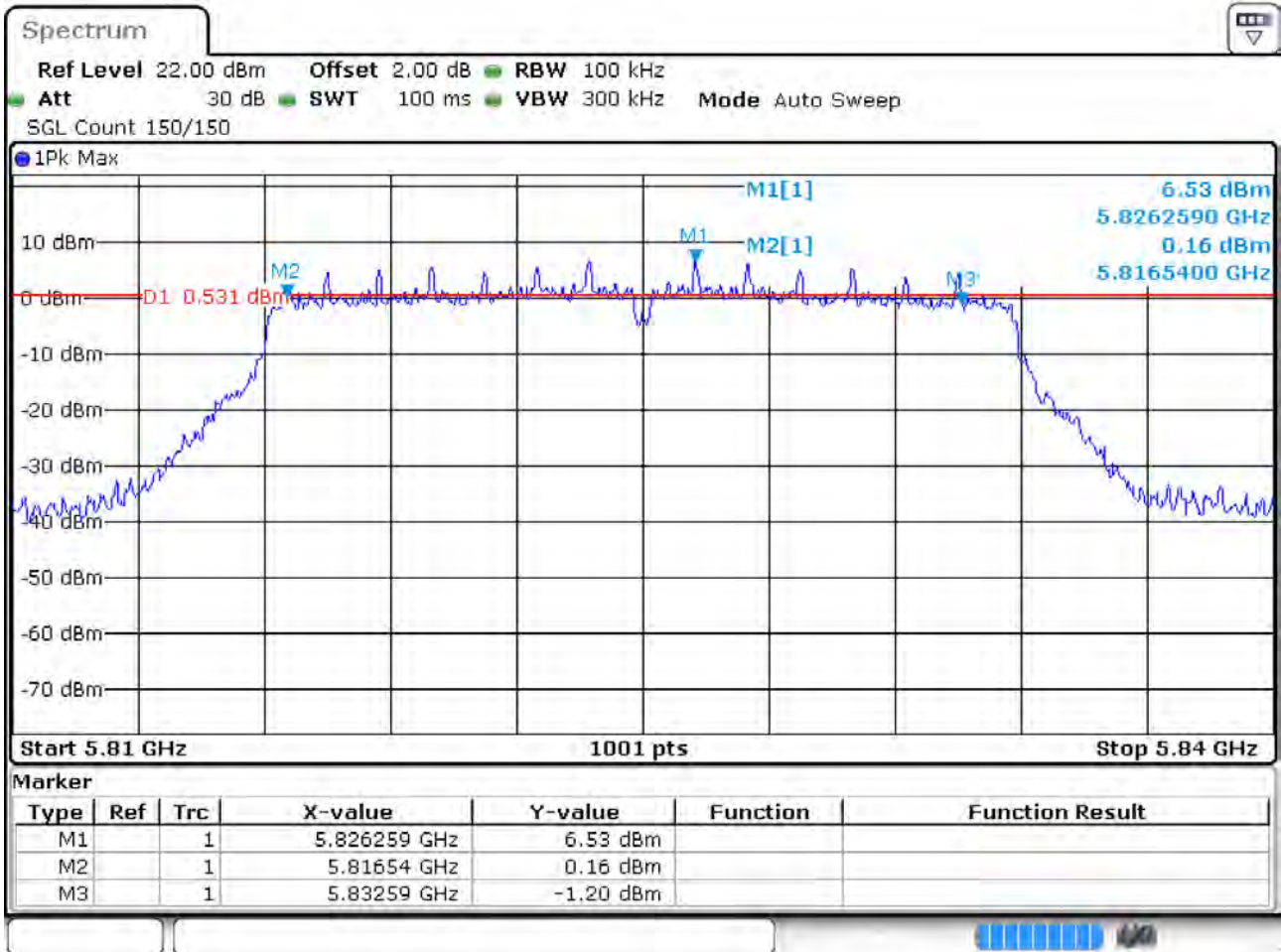


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**4.6.2.10 11AC20\_165 ANT 1**



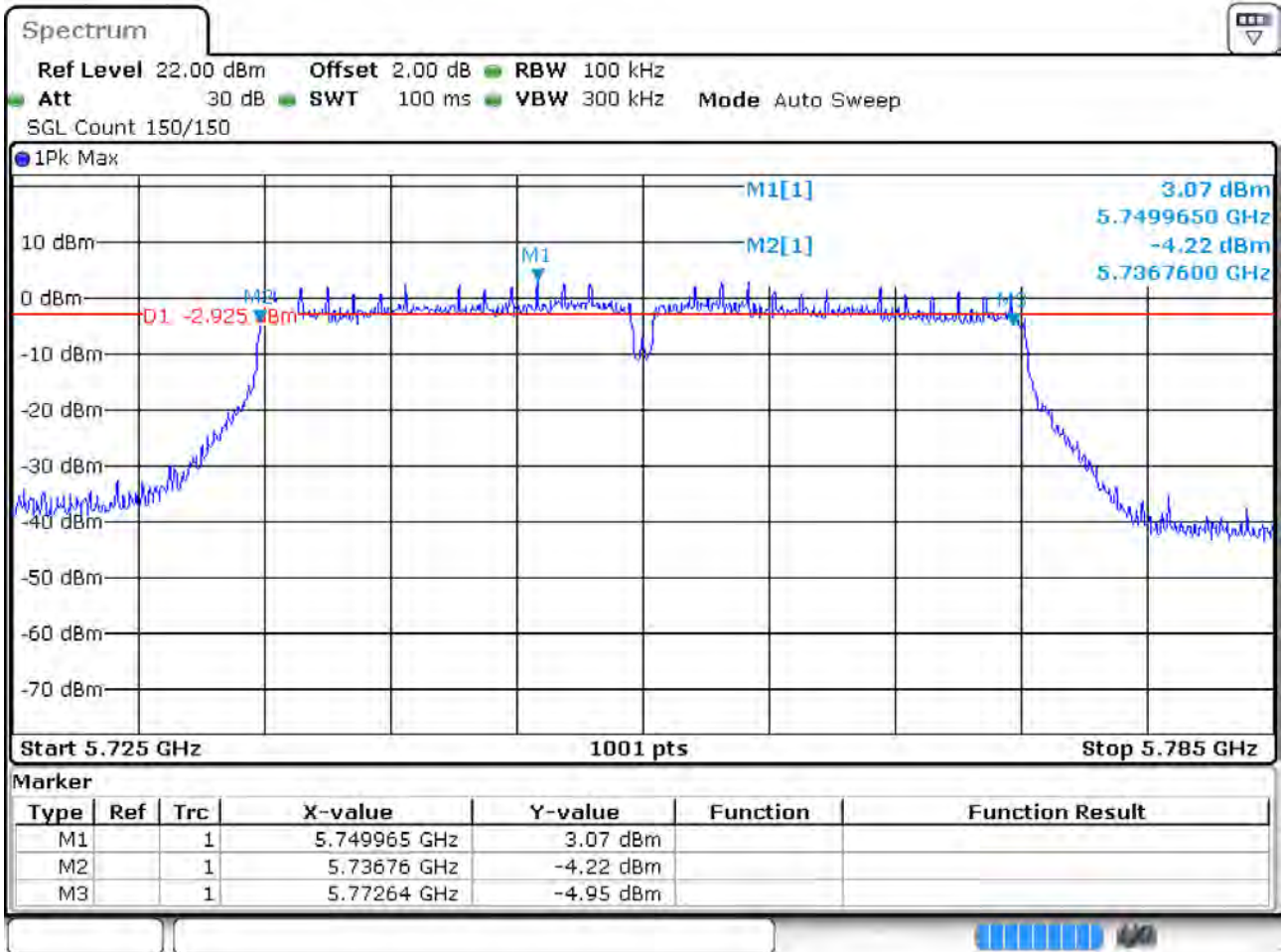
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4.6.2.11 11AC40\_151 ANT 1

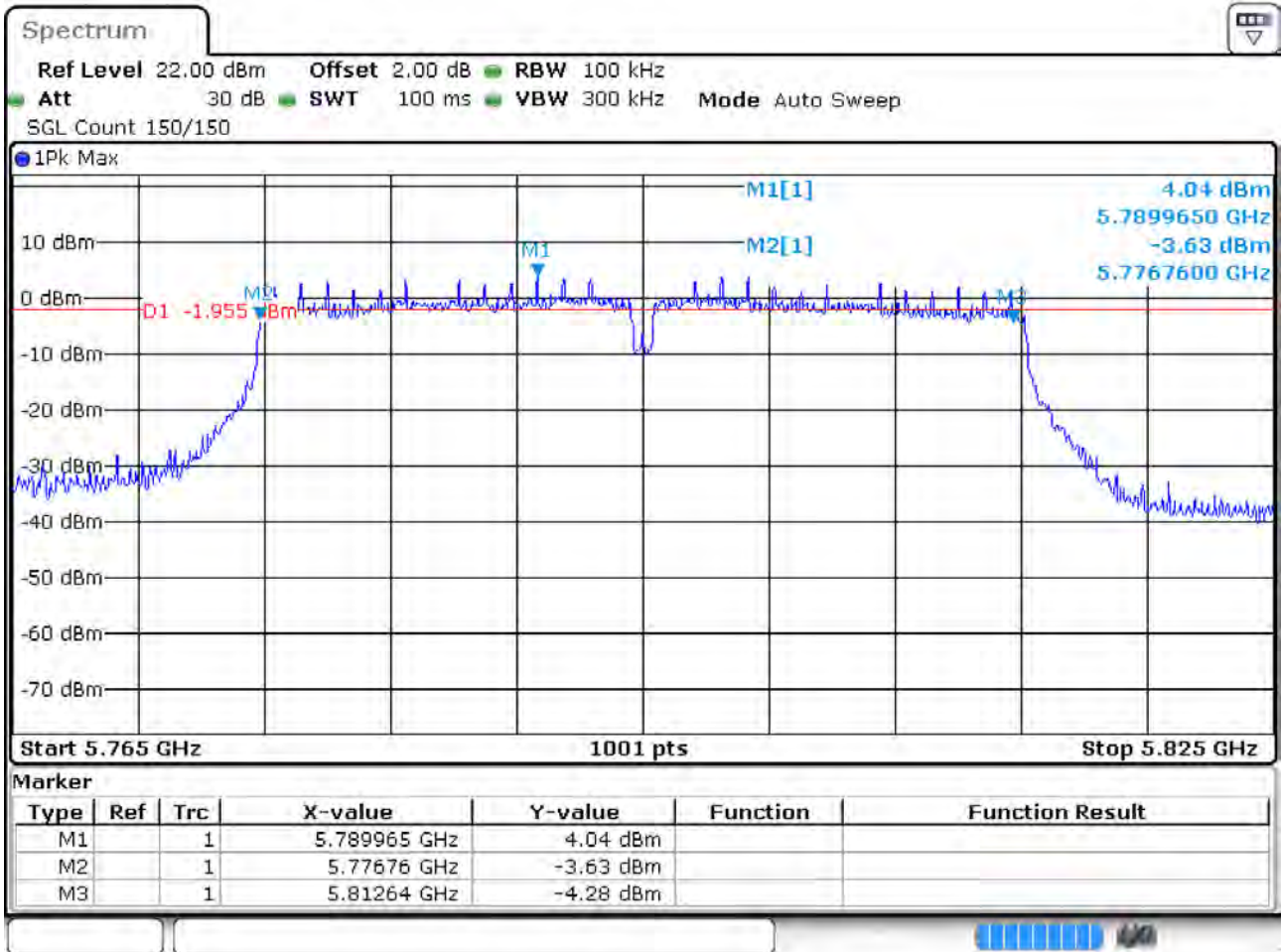


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4.6.2.12 11AC40\_159 ANT 1



Date: 11.SEP.2020 18:16:13

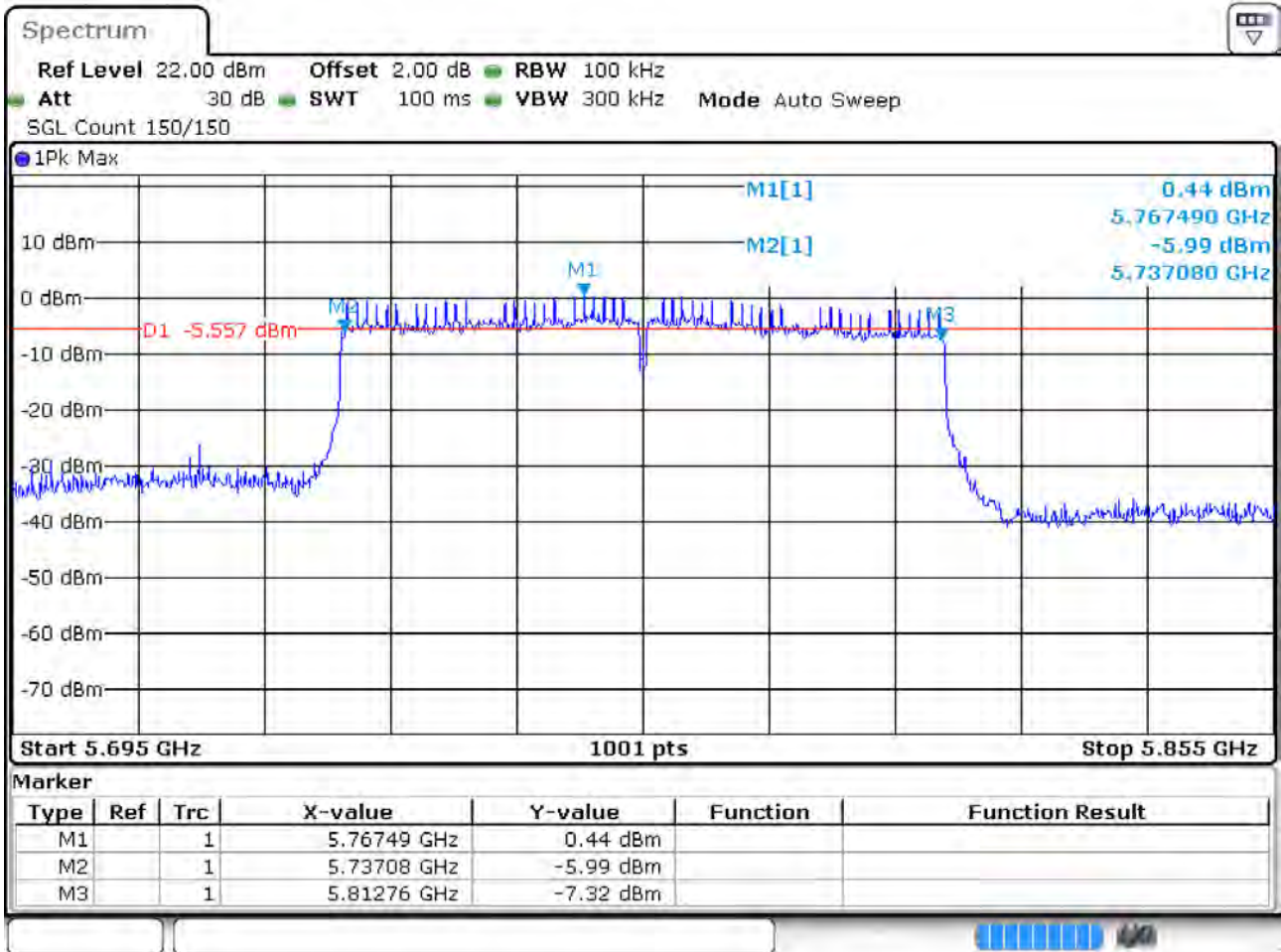


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4.6.2.13 11AC80\_155 ANT 1



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### 4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20);</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT20);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT80).</p> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	



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

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	16.6933	PASS
	44	5220	ANT 1	16.6933	PASS
	48	5240	ANT 1	16.6633	PASS
	52	5260	ANT 1	16.6633	PASS
	60	5300	ANT 1	16.6633	PASS
	64	5320	ANT 1	16.6334	PASS
	100	5500	ANT 1	16.6933	PASS
	116	5580	ANT 1	16.6633	PASS
	140	5700	ANT 1	16.6633	PASS
	149	5745	ANT 1	16.6633	PASS
	157	5785	ANT 1	16.6633	PASS
	165	5825	ANT 1	16.6633	PASS
	11N20	36	5180	ANT 1	17.8022
44		5220	ANT 1	17.7722	PASS
48		5240	ANT 1	17.7722	PASS
52		5260	ANT 1	17.7722	PASS
60		5300	ANT 1	17.7722	PASS
64		5320	ANT 1	17.7423	PASS
100		5500	ANT 1	17.7722	PASS
116		5580	ANT 1	17.7423	PASS
140		5700	ANT 1	17.7722	PASS
149		5745	ANT 1	17.7722	PASS
157		5785	ANT 1	17.7423	PASS
165		5825	ANT 1	17.7423	PASS
11N40		38	5190	ANT 1	36.3237
	46	5230	ANT 1	36.3237	PASS
	54	5270	ANT 1	36.3237	PASS
	62	5310	ANT 1	36.3237	PASS
	102	5510	ANT 1	36.3237	PASS
	110	5550	ANT 1	36.3237	PASS
	134	5670	ANT 1	36.3237	PASS
	151	5755	ANT 1	36.3836	PASS
	159	5795	ANT 1	36.3237	PASS
11AC20	36	5180	ANT 1	17.7722	PASS
	44	5220	ANT 1	17.7722	PASS



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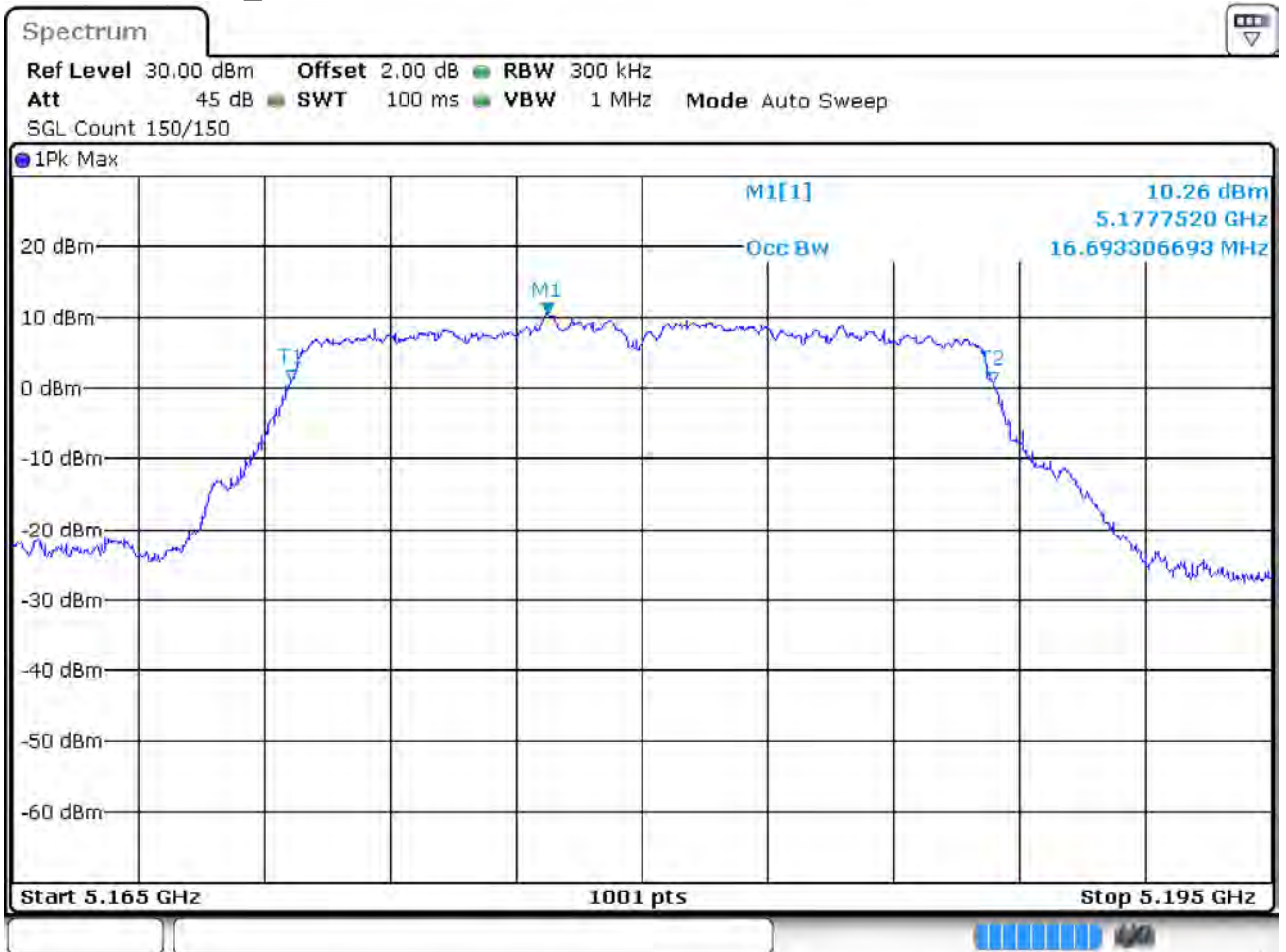
	48	5240	ANT 1	17.7722	PASS
	52	5260	ANT 1	17.7722	PASS
	60	5300	ANT 1	17.7722	PASS
	64	5320	ANT 1	17.7423	PASS
	100	5500	ANT 1	17.7423	PASS
	116	5580	ANT 1	17.7722	PASS
	140	5700	ANT 1	17.7722	PASS
	149	5745	ANT 1	17.7722	PASS
	157	5785	ANT 1	17.7722	PASS
	165	5825	ANT 1	17.7722	PASS
11AC40	38	5190	ANT 1	36.3237	PASS
	46	5230	ANT 1	36.3237	PASS
	54	5270	ANT 1	36.3237	PASS
	62	5310	ANT 1	36.3237	PASS
	102	5510	ANT 1	36.3237	PASS
	110	5550	ANT 1	36.3237	PASS
	134	5670	ANT 1	36.2637	PASS
	151	5755	ANT 1	36.3237	PASS
	159	5795	ANT 1	36.3237	PASS
11AC80	42	5210	ANT 1	75.6444	PASS
	58	5290	ANT 1	75.7642	PASS
	106	5530	ANT 1	75.7642	PASS
	122	5610	ANT 1	75.7642	PASS
	138	5690	ANT 1	75.8841	PASS
	155	5775	ANT 1	75.7642	PASS



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**4.7.2 Plots for 99% Occupied Bandwidth**  
**4.7.2.1 11A20\_36 ANT 1**

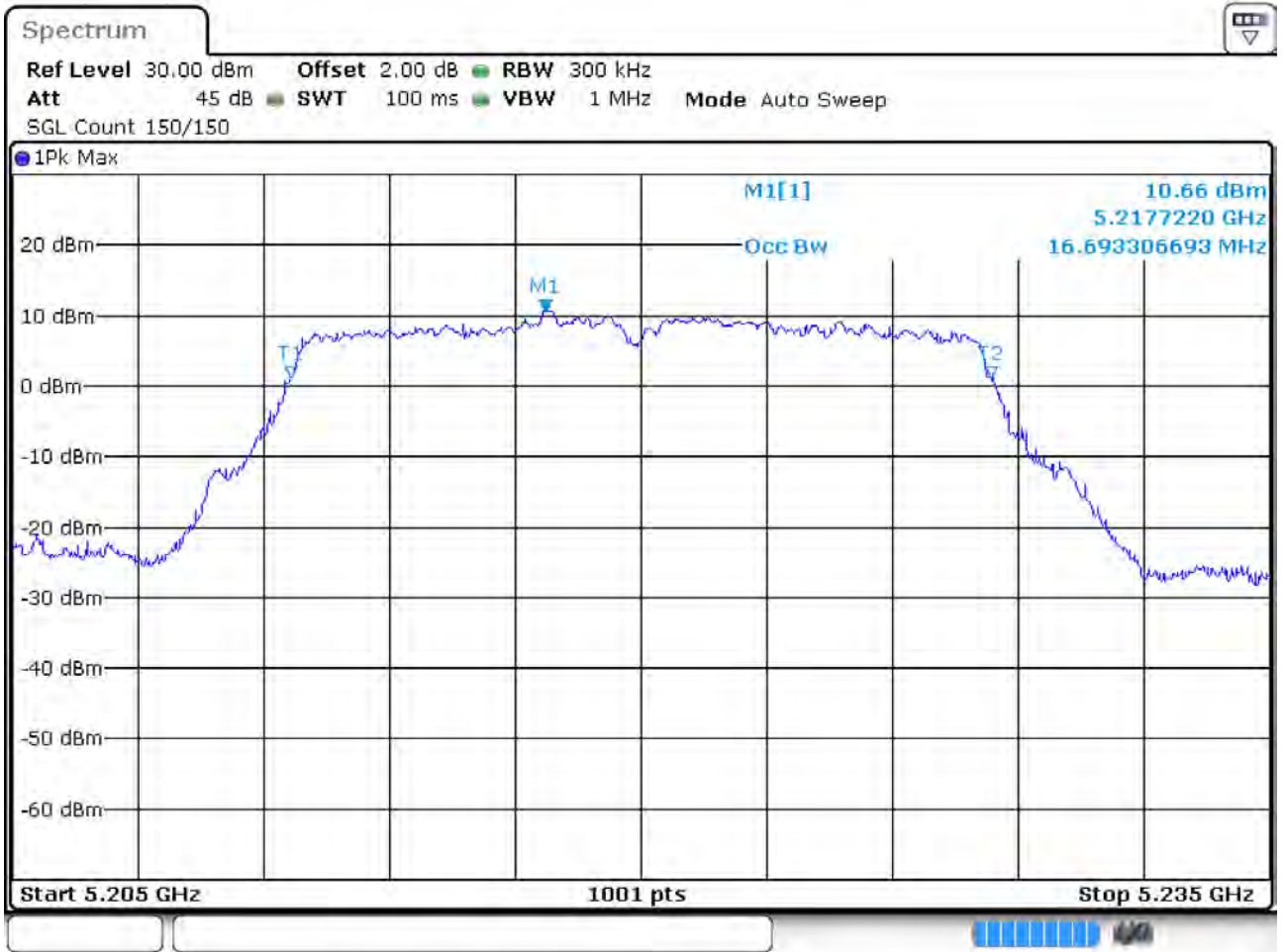


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**4.7.2.2 11A20\_44 ANT 1**

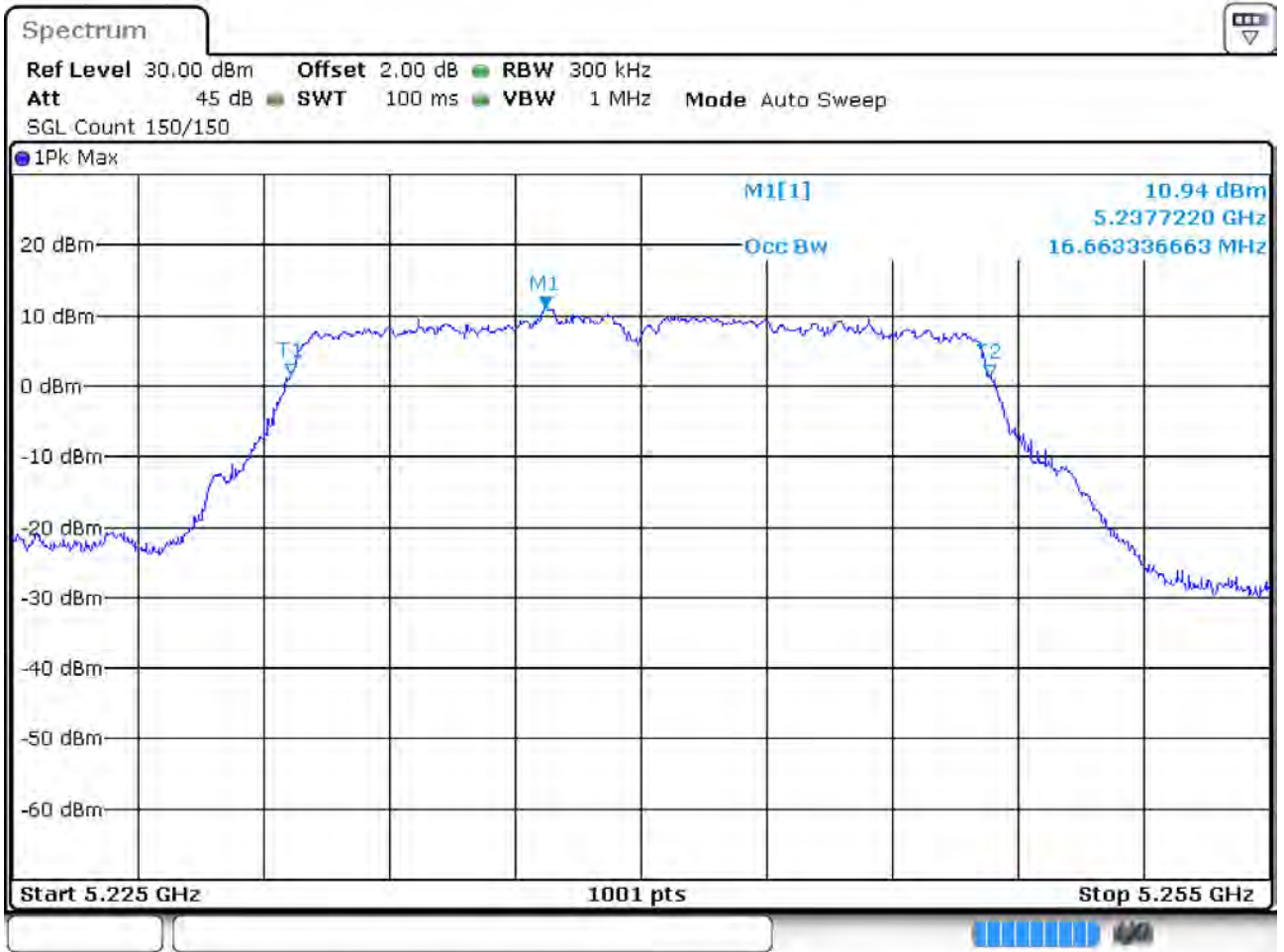


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**4.7.2.3 11A20\_48 ANT 1**

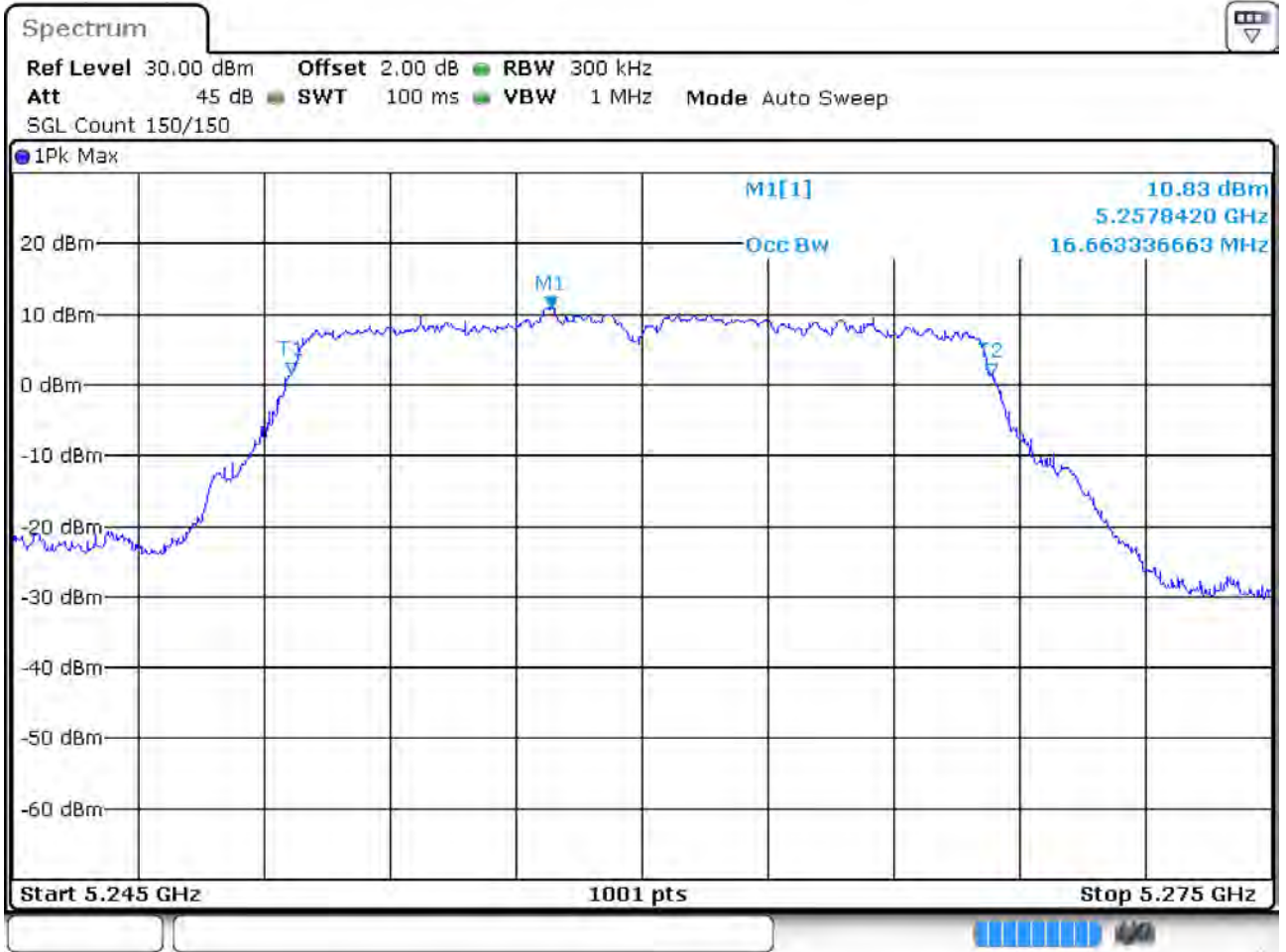


Date: 11.SEP.2020 15:59:28



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4.7.2.4 11A20\_52 ANT 1

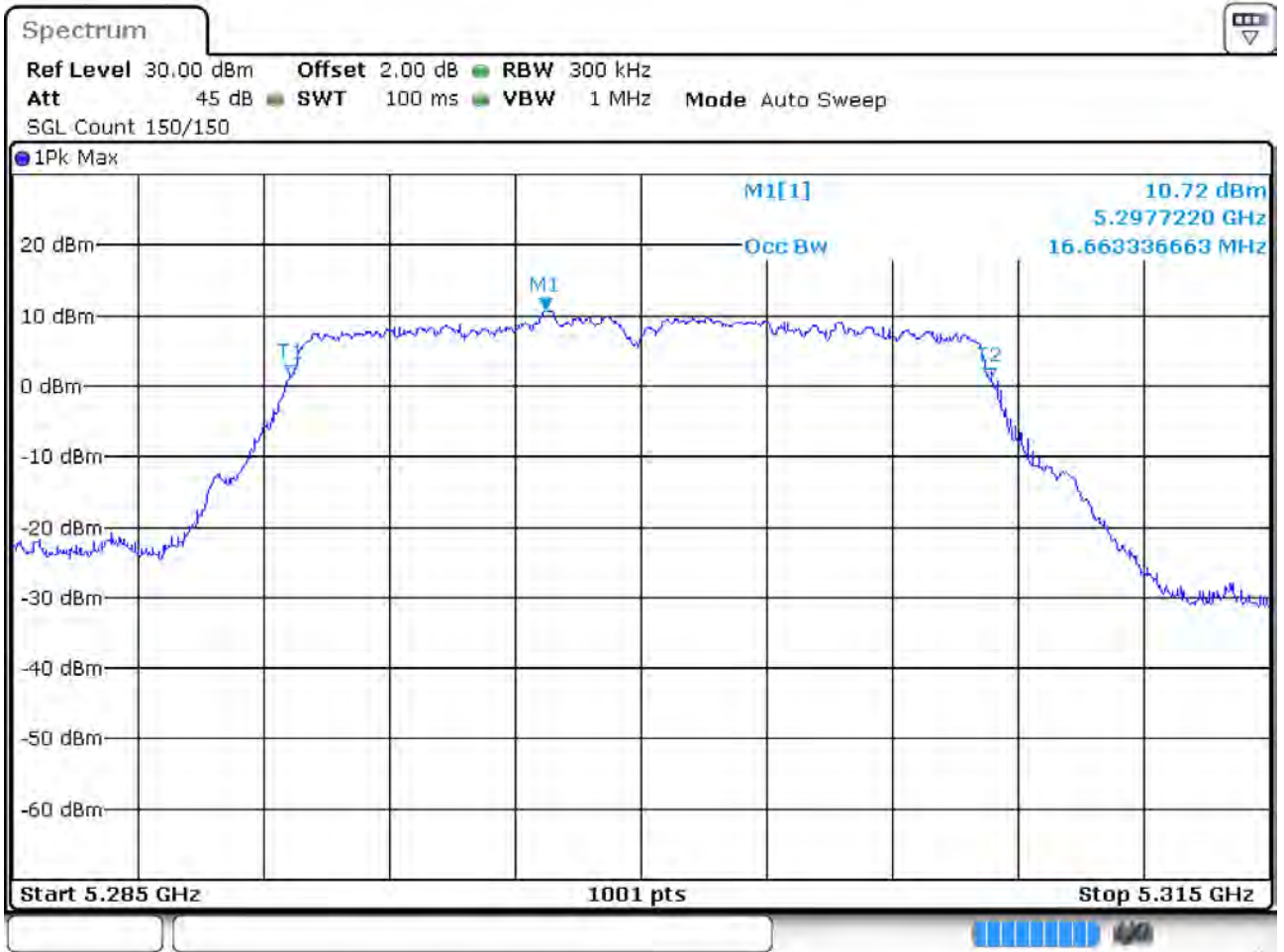


Date: 11.SEP.2020 16:01:05



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**4.7.2.5 11A20\_60 ANT 1**

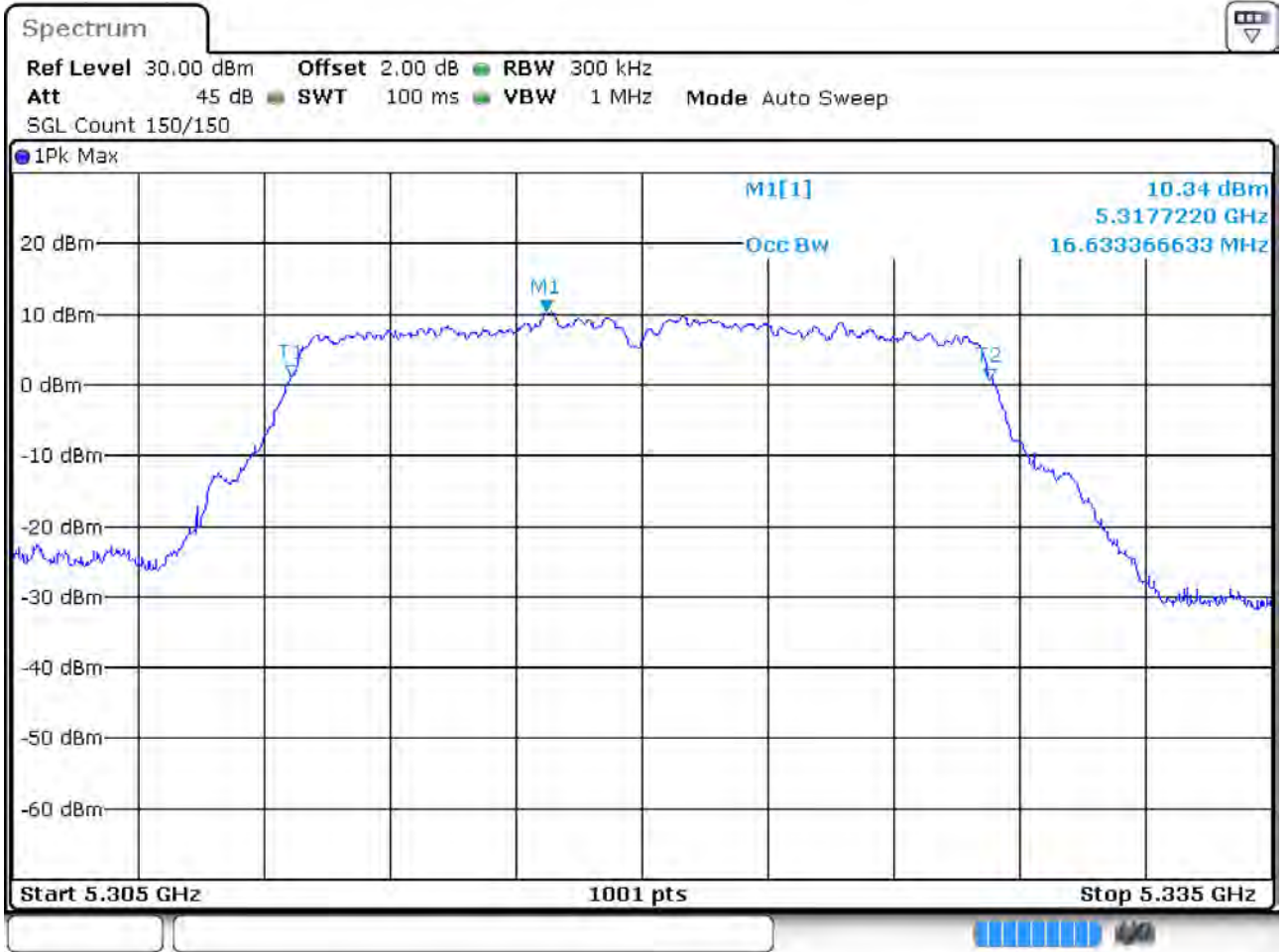


Date: 11.SEP.2020 16:02:30



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**4.7.2.6 11A20\_64 ANT 1**

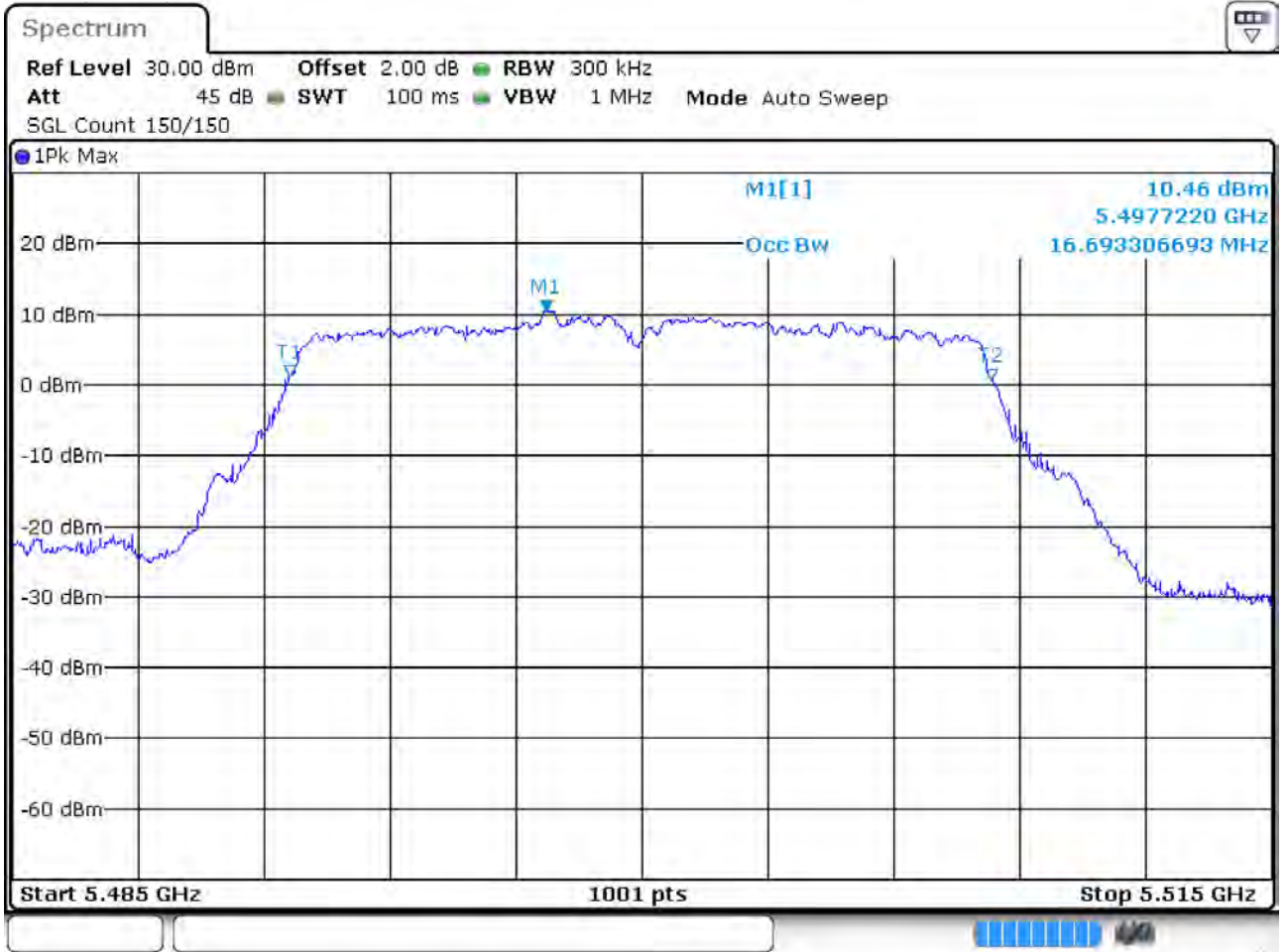


Date: 11.SEP.2020 16:03:49



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**4.7.2.7 11A20\_100 ANT 1**

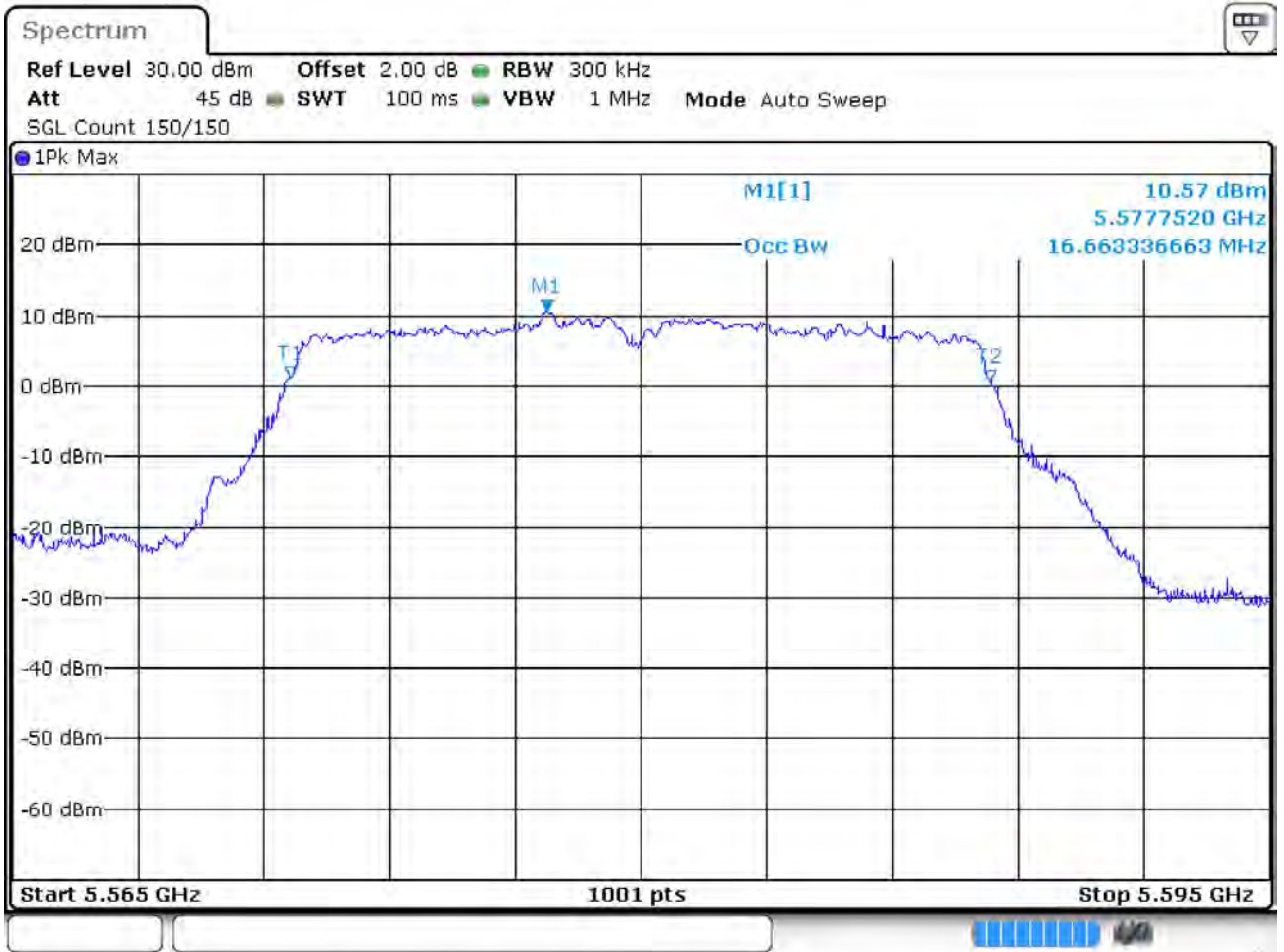


Date: 11.SEP.2020 16:05:16



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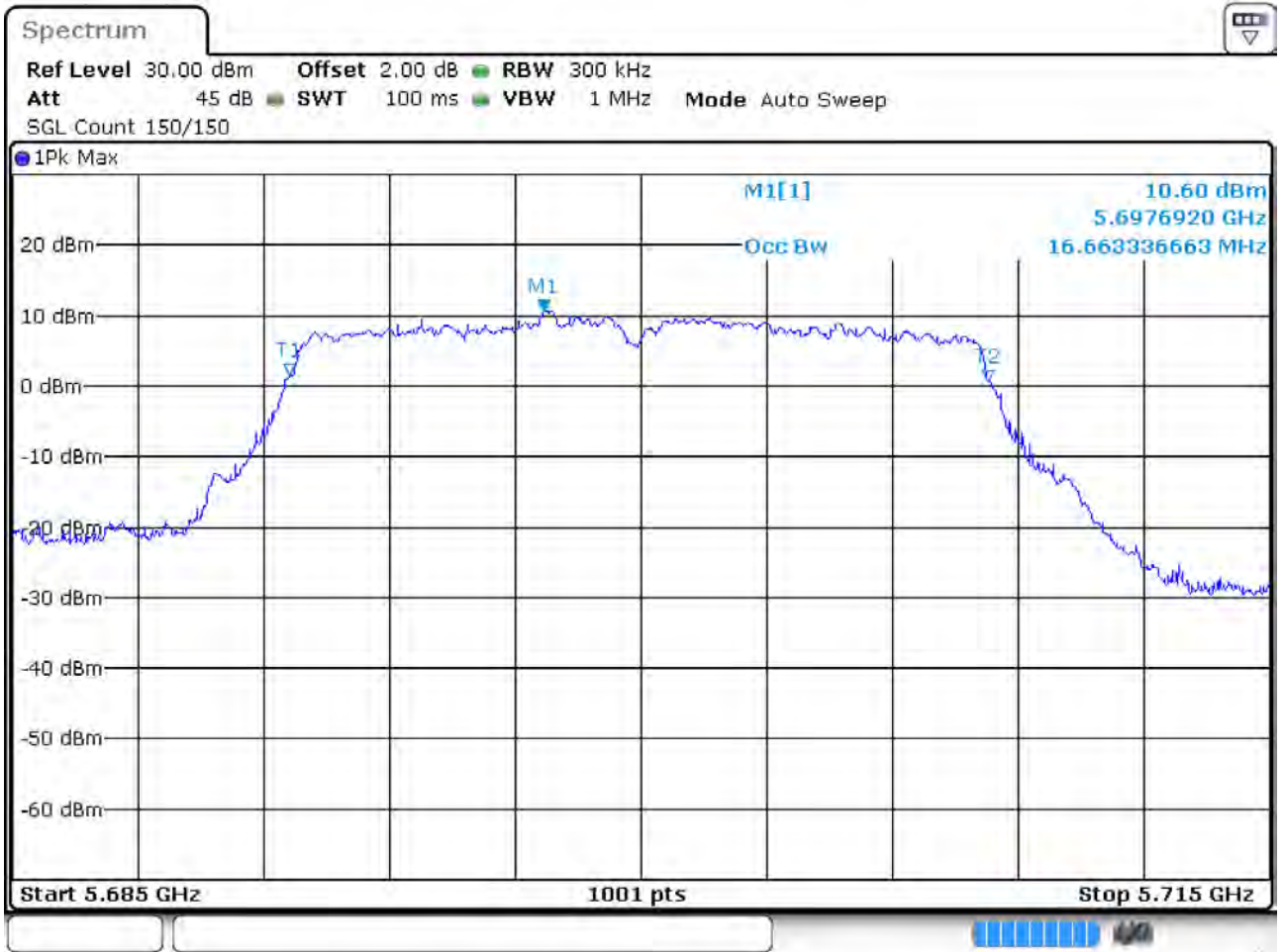
**4.7.2.8 11A20\_116 ANT 1**



Date: 11.SEP.2020 16:06:47



4.7.2.9 11A20\_140 ANT 1

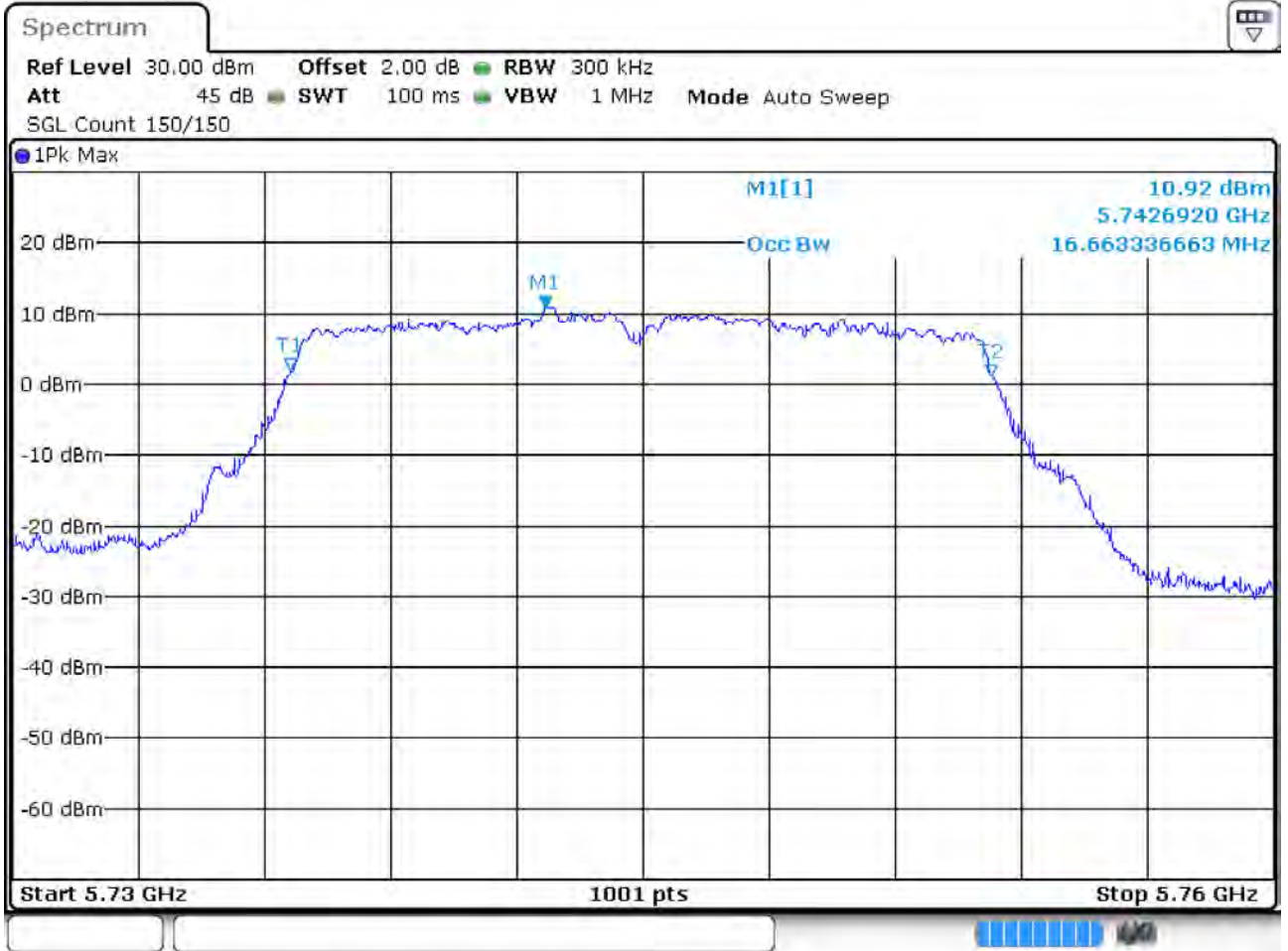


Date: 11.SEP.2020 16:08:47



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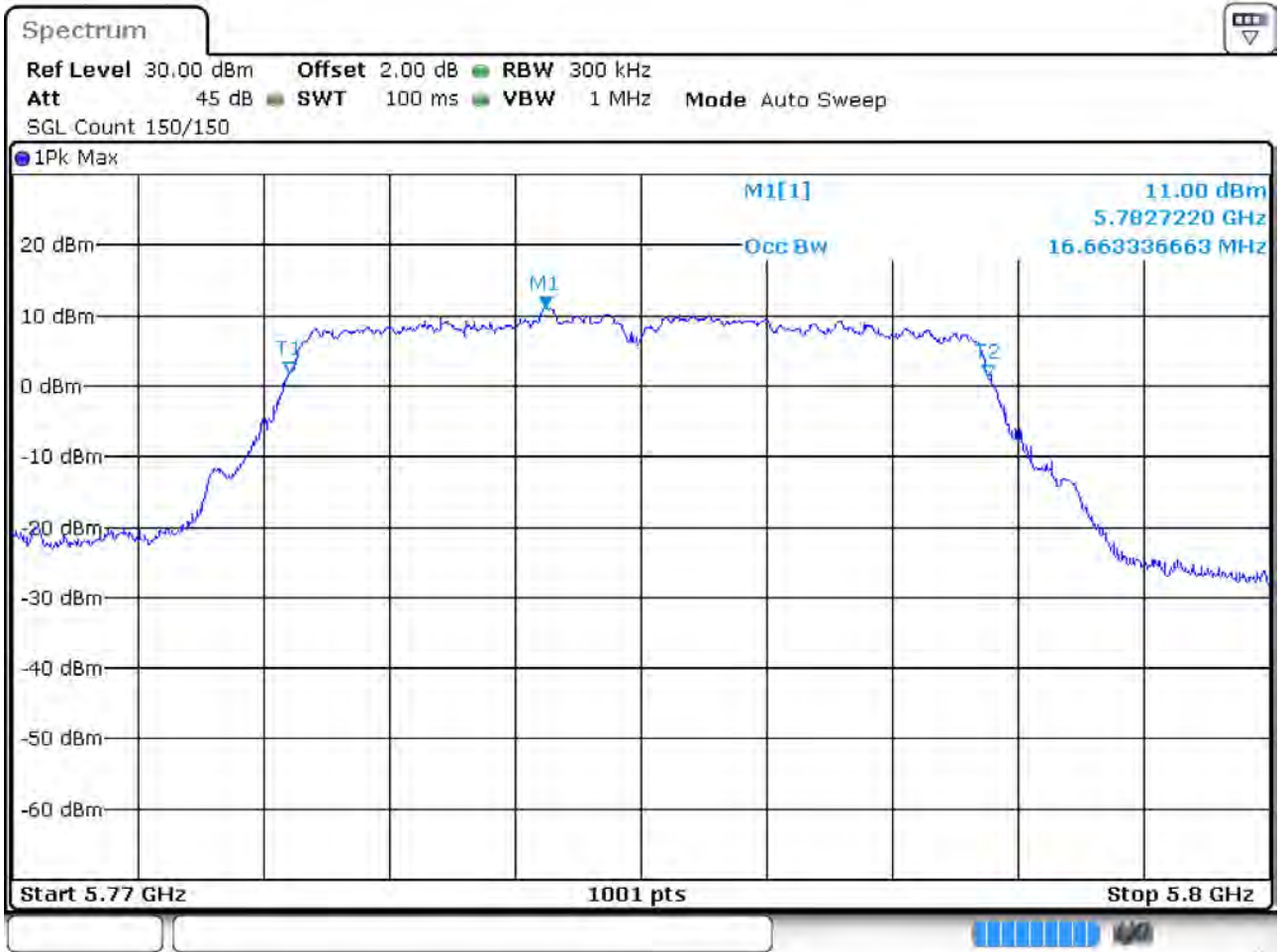
**4.7.2.10 11A20\_149 ANT 1**



Date: 11.SEP.2020 16:10:16



**4.7.2.11 11A20\_157 ANT 1**

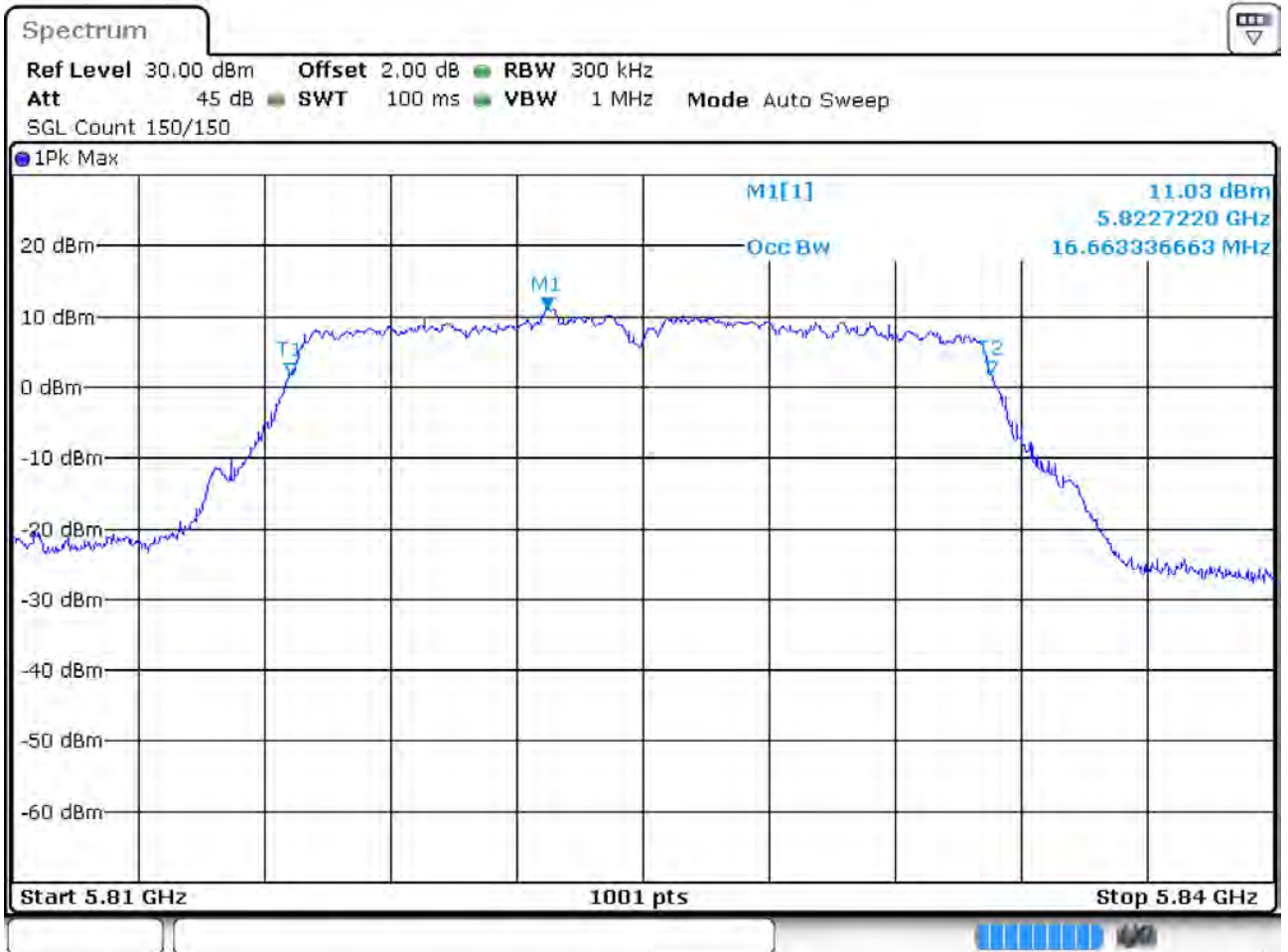


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**4.7.2.12 11A20\_165 ANT 1**

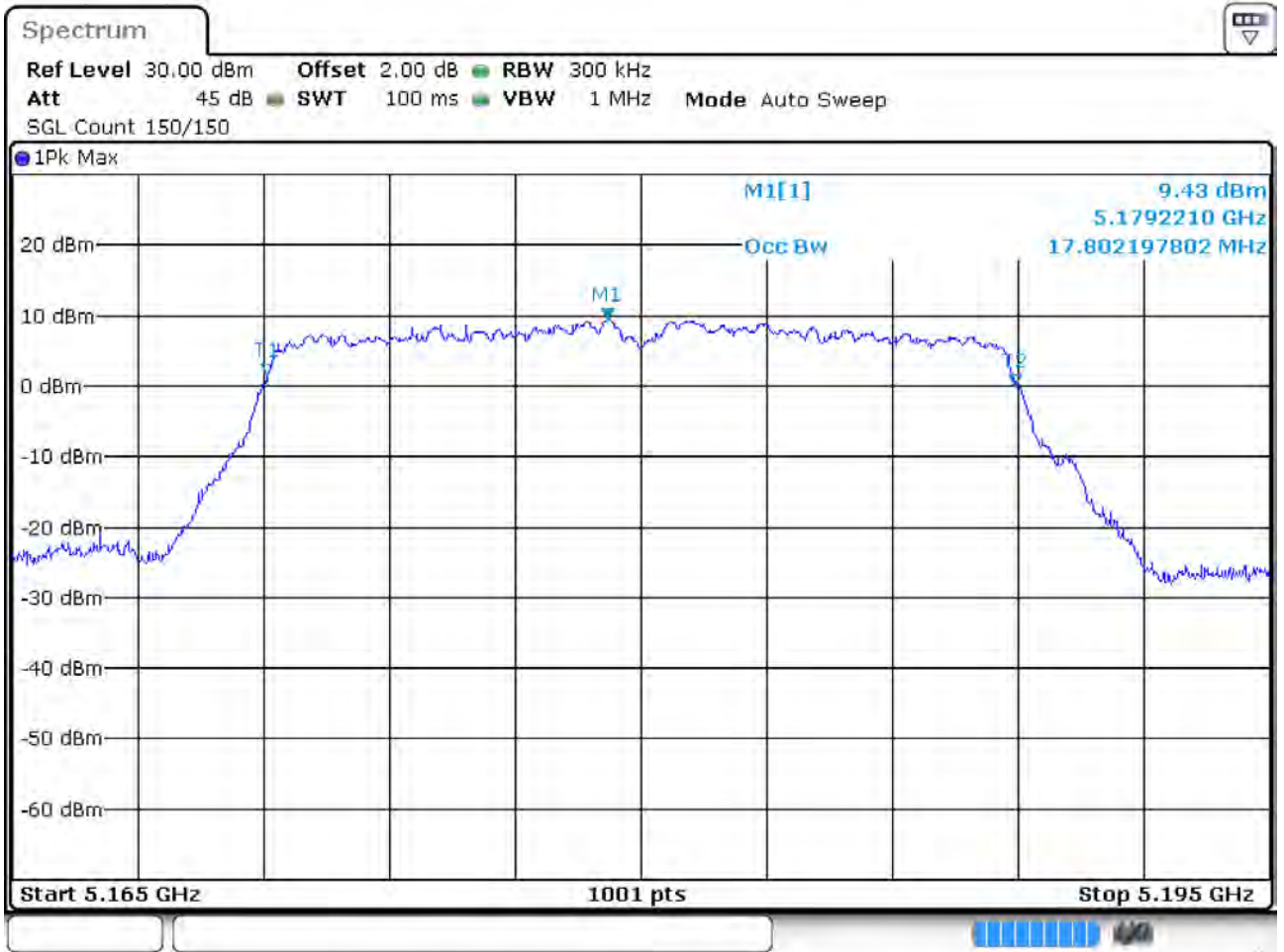


Date: 11.SEP.2020 16:14:00



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**4.7.2.13 11N20\_36 ANT 1**



Date: 11.SEP.2020 16:16:24

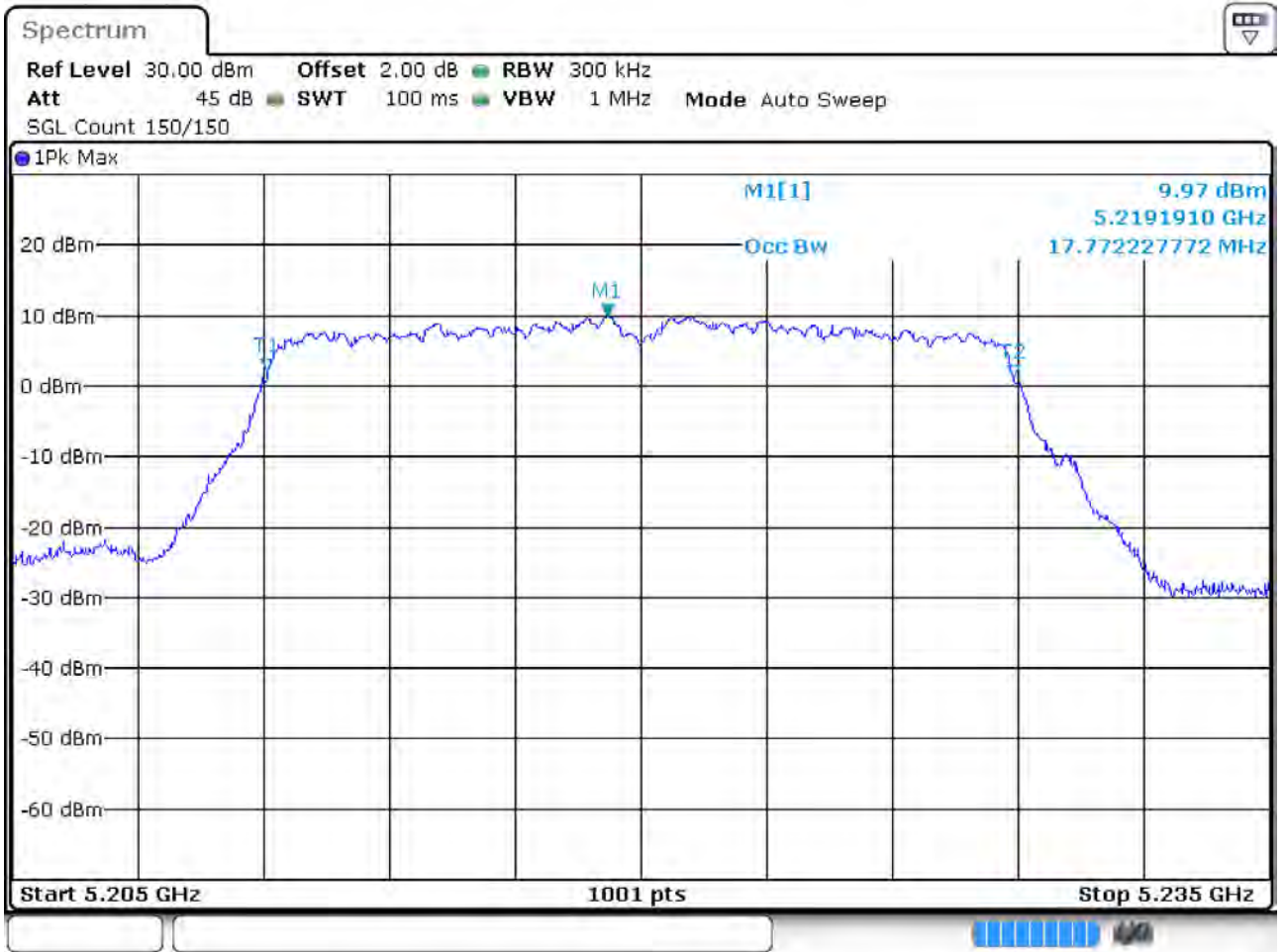


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4.7.2.14 11N20\_44 ANT 1

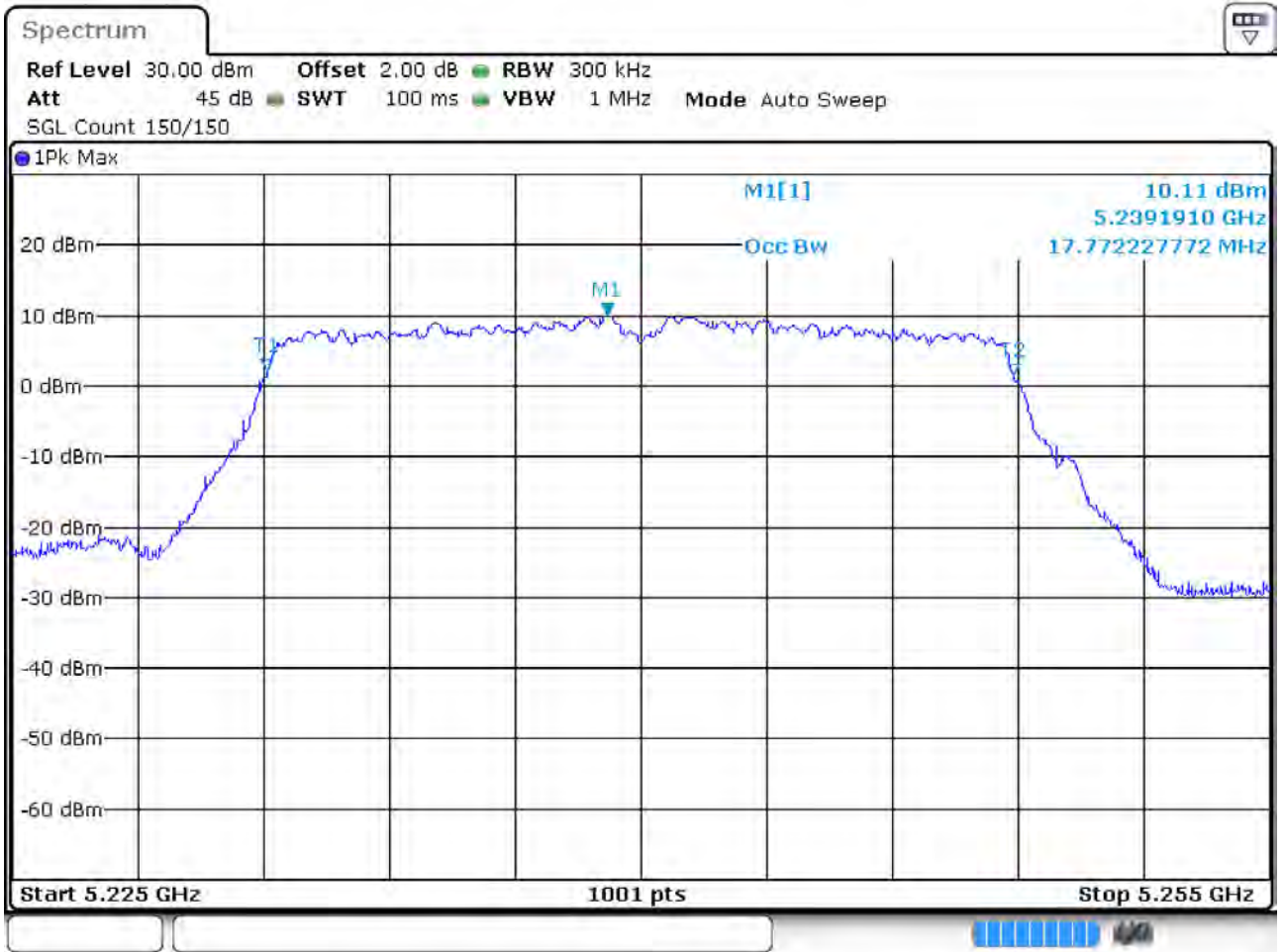


Date: 11.SEP.2020 16:17:59



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**4.7.2.15 11N20\_48 ANT 1**

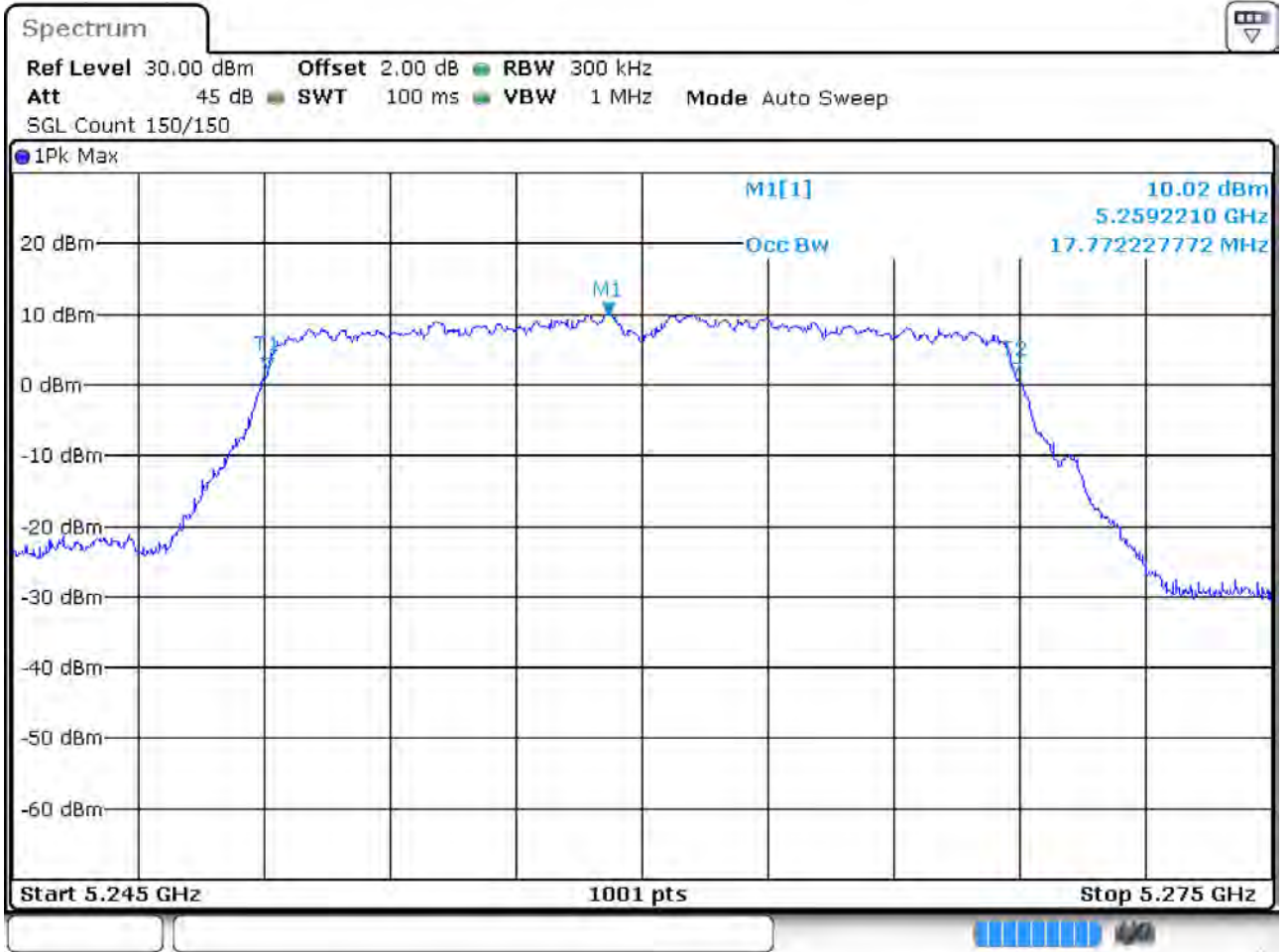


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**4.7.2.16 11N20\_52 ANT 1**



Date: 11.SEP.2020 16:21:00

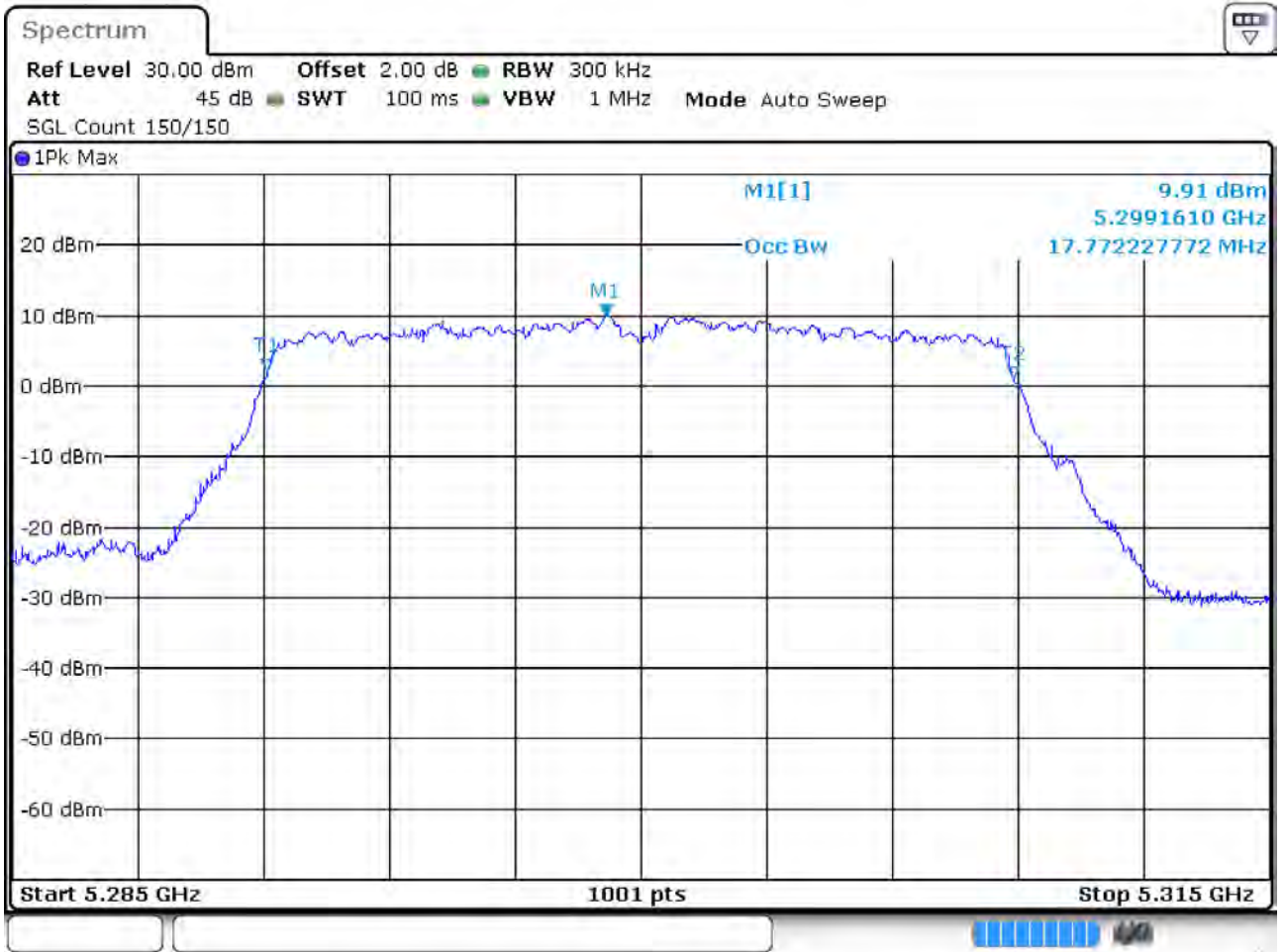


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**4.7.2.17 11N20\_60 ANT 1**



Date: 11.SEP.2020 16:22:21

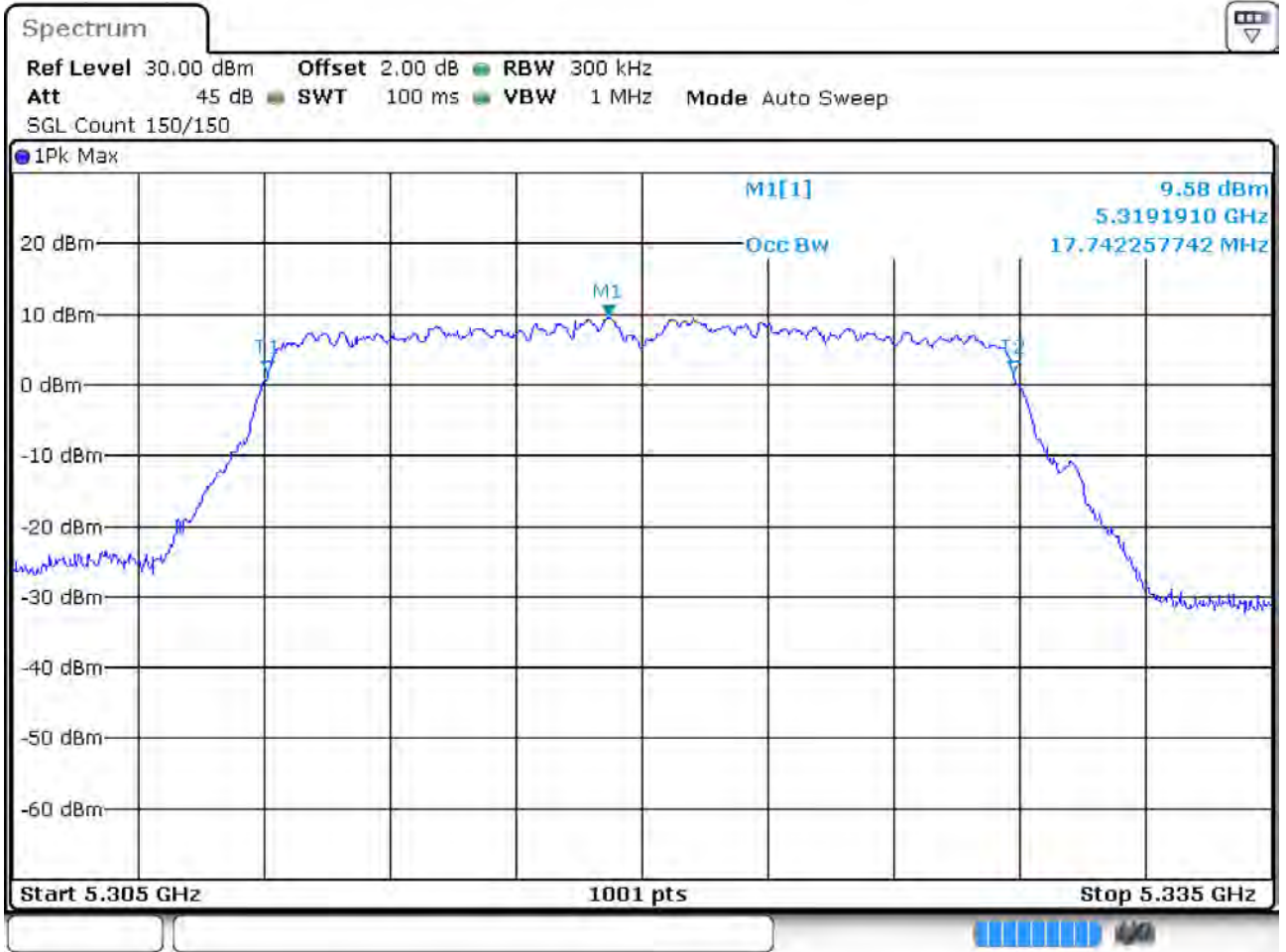


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Shenzhen Branch Inspection & Testing Laboratory

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**4.7.2.18 11N20\_64 ANT 1**



Date: 11.SEP.2020 16:23:59

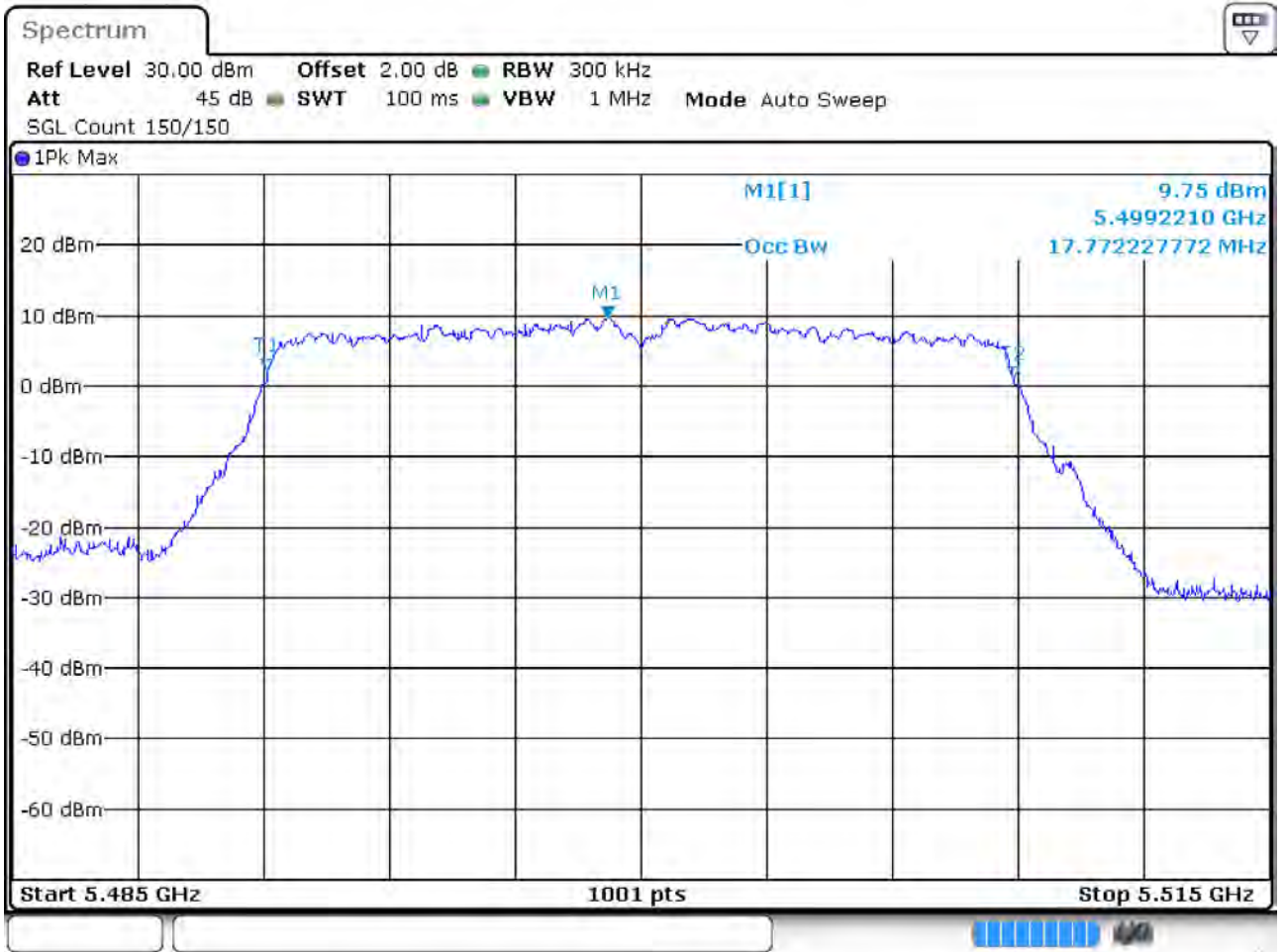


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4.7.2.19 11N20\_100 ANT 1

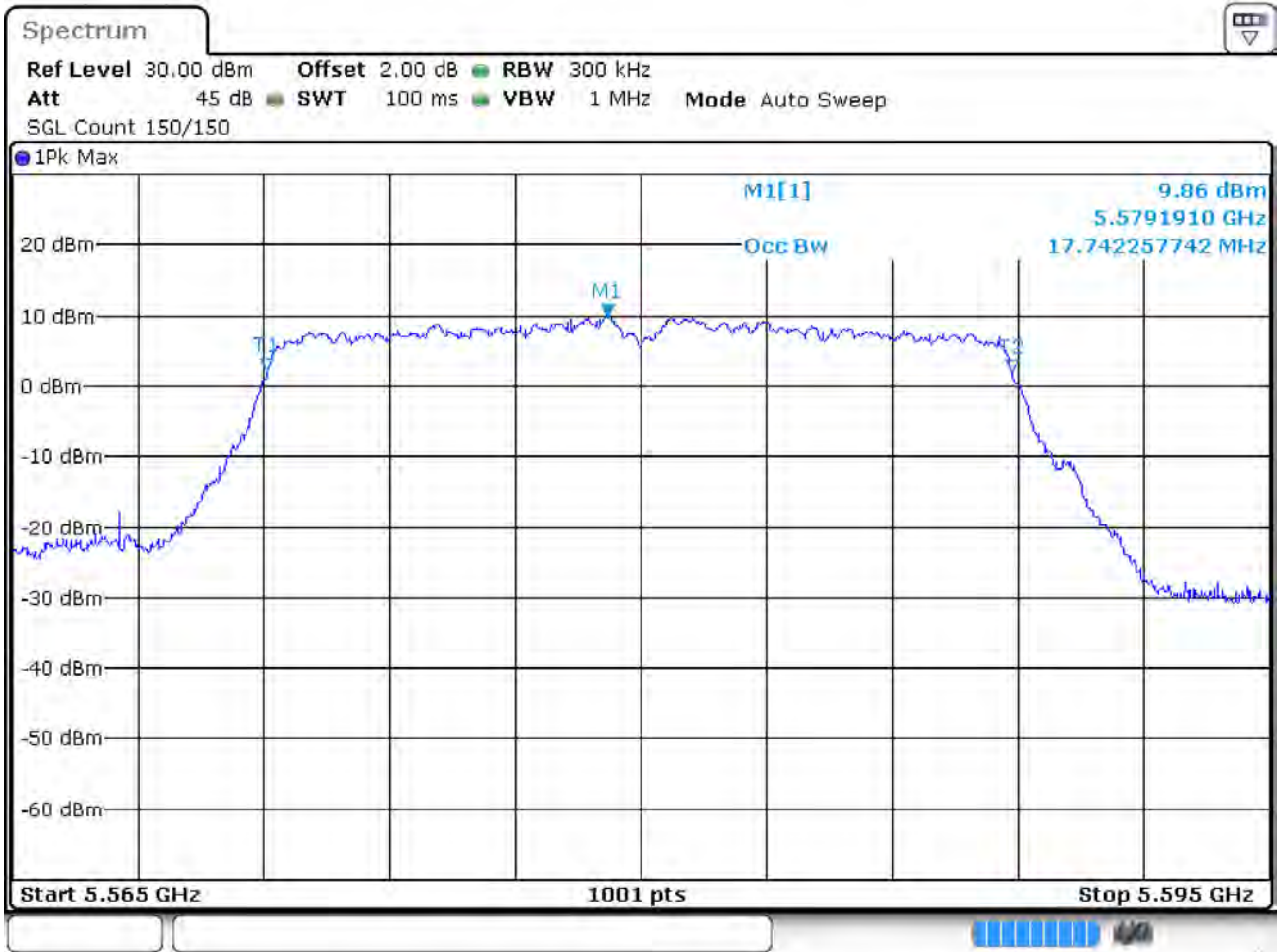


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**4.7.2.20 11N20\_116 ANT 1**

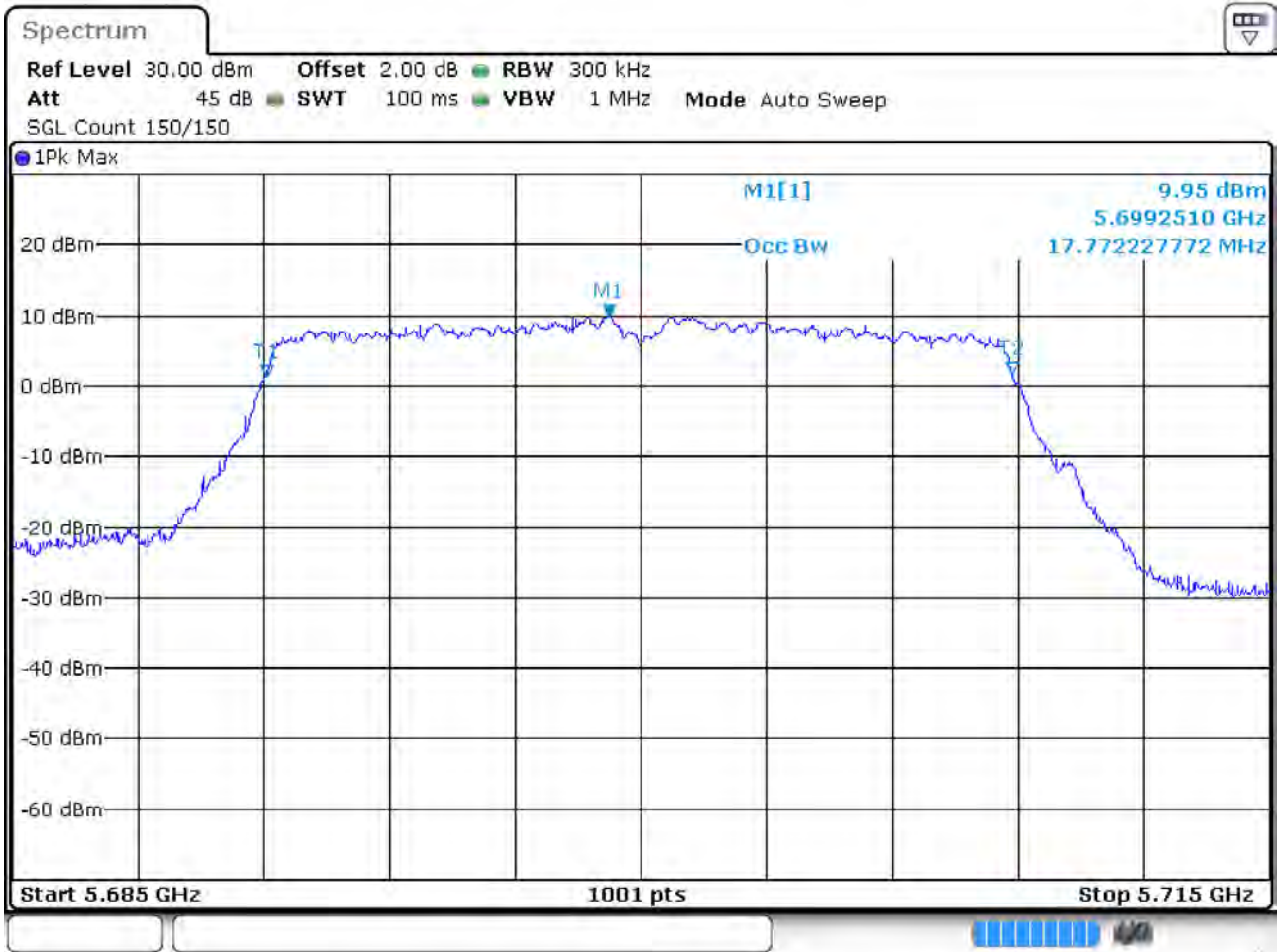


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**4.7.2.21 11N20\_140 ANT 1**

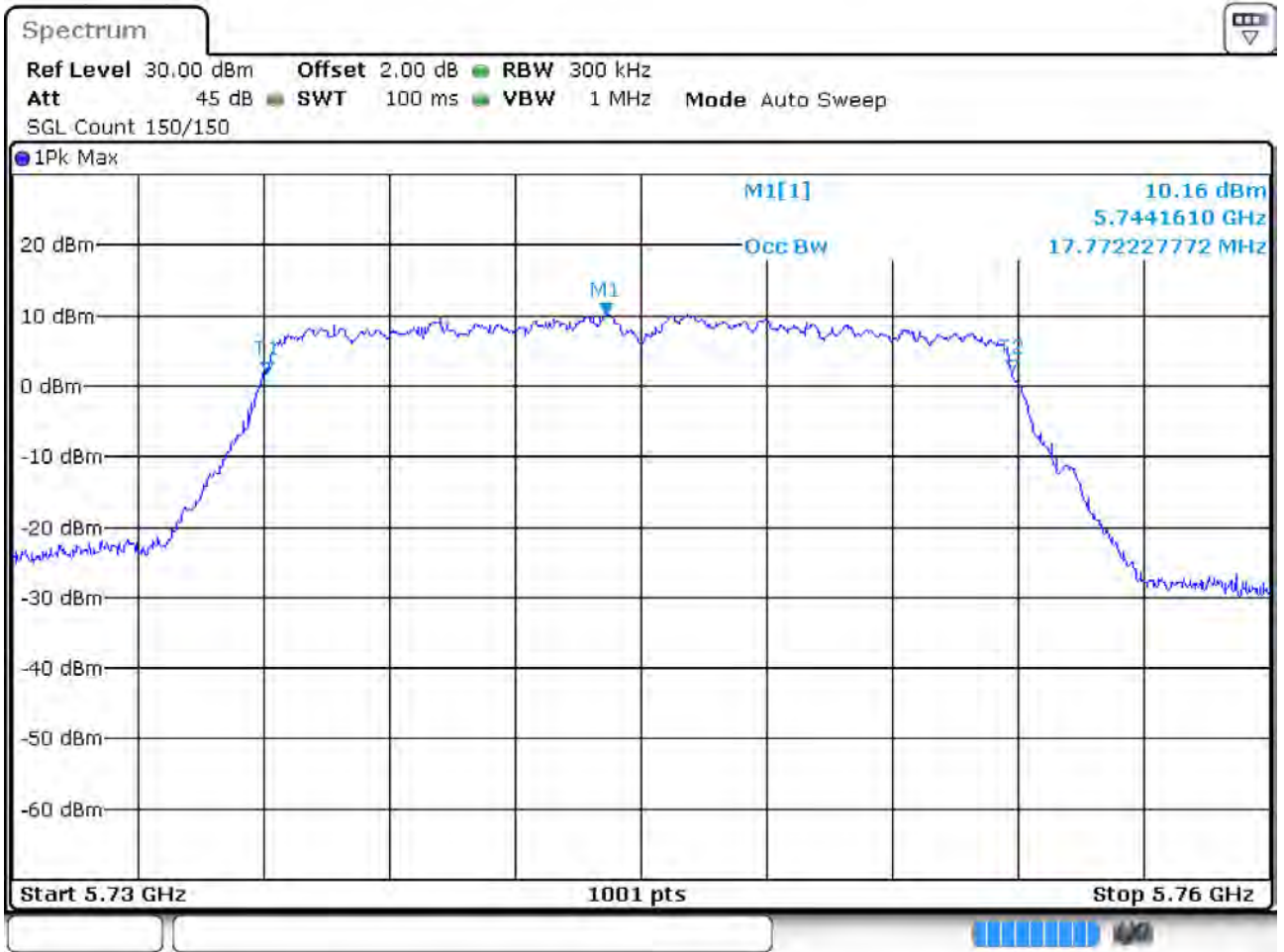


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4.7.2.22 11N20\_149 ANT 1

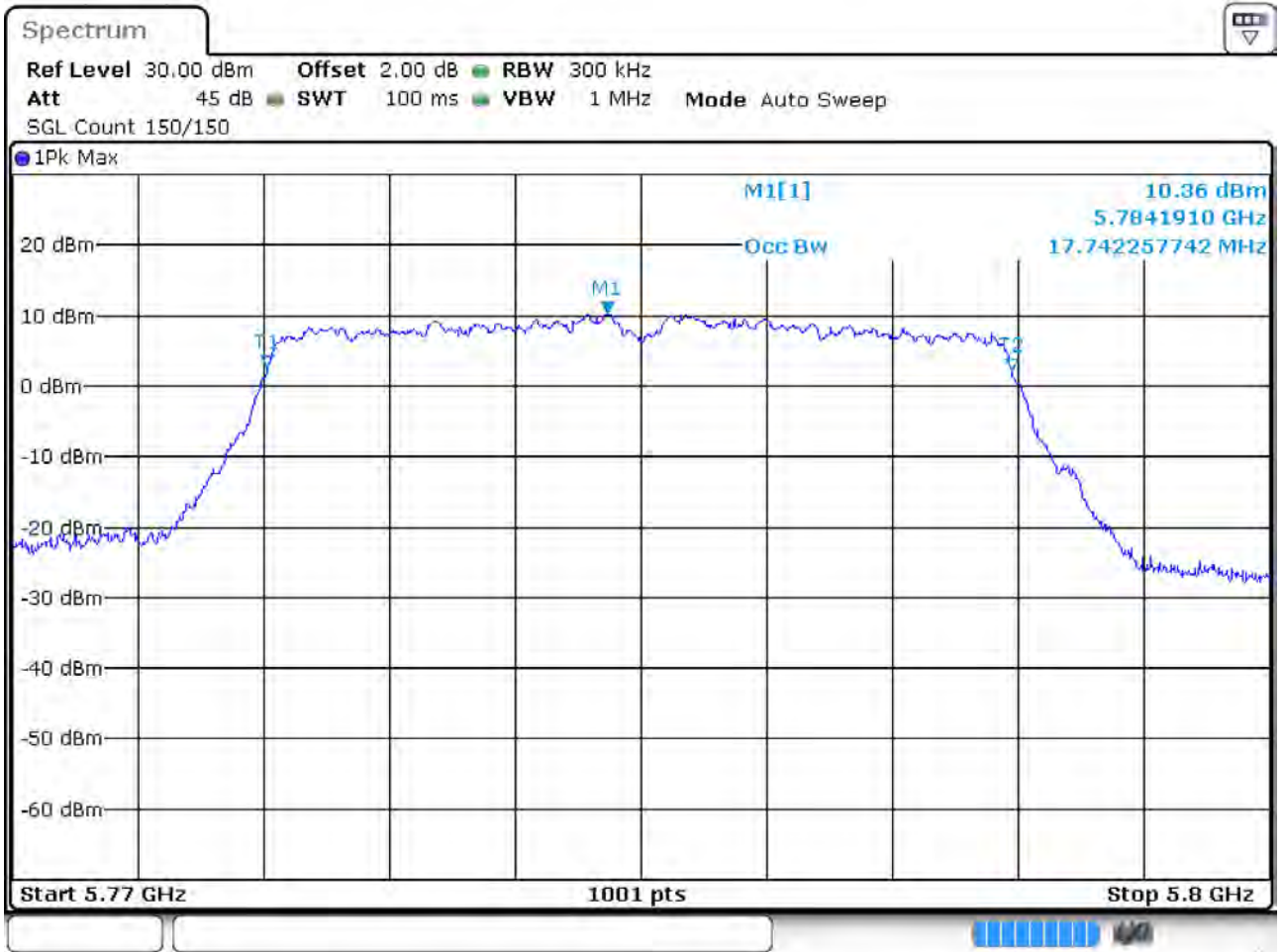


Date: 11.SEP.2020 17:11:50



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**4.7.2.23 11N20\_157 ANT 1**

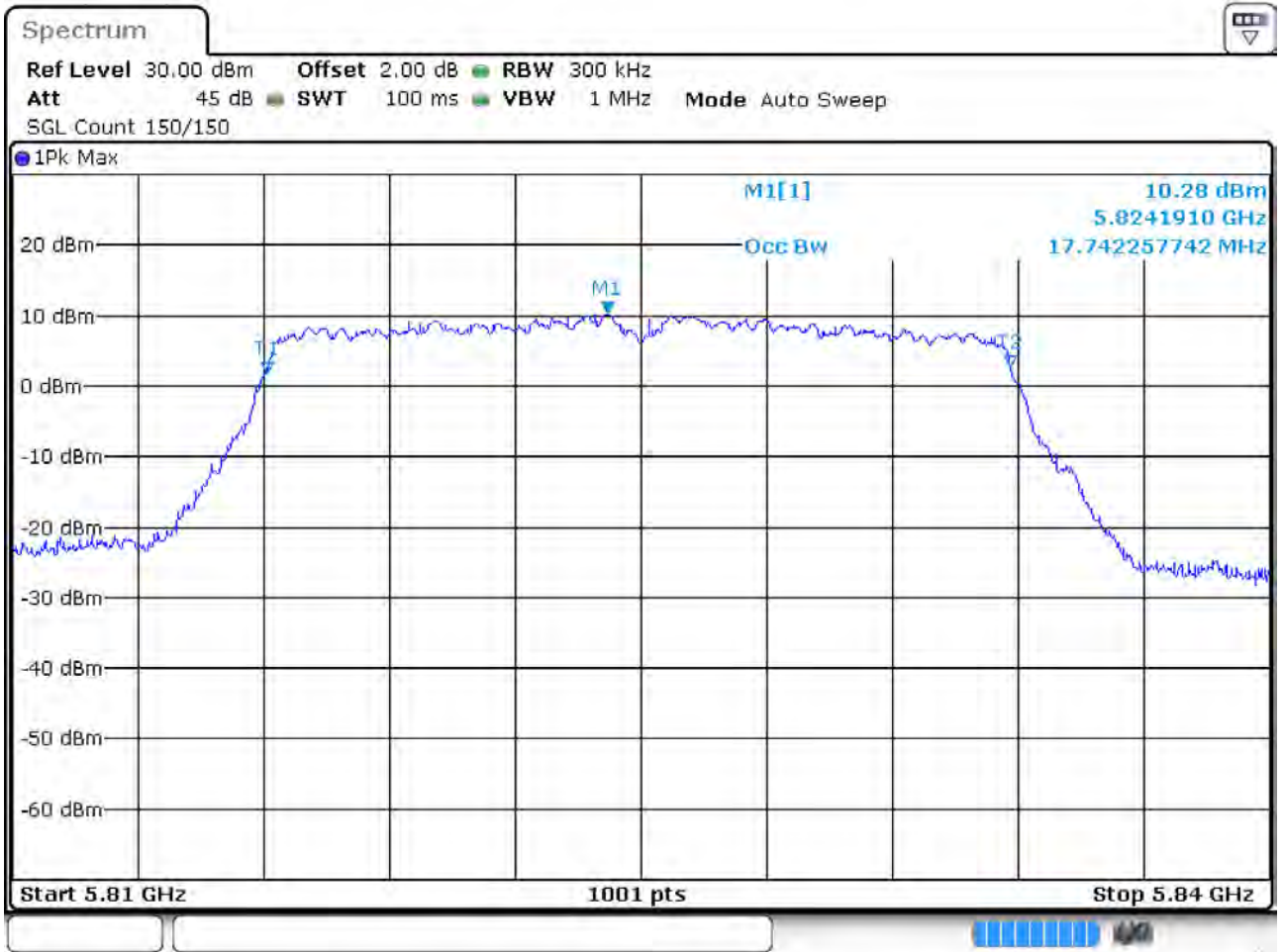


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**4.7.2.24 11N20\_165 ANT 1**

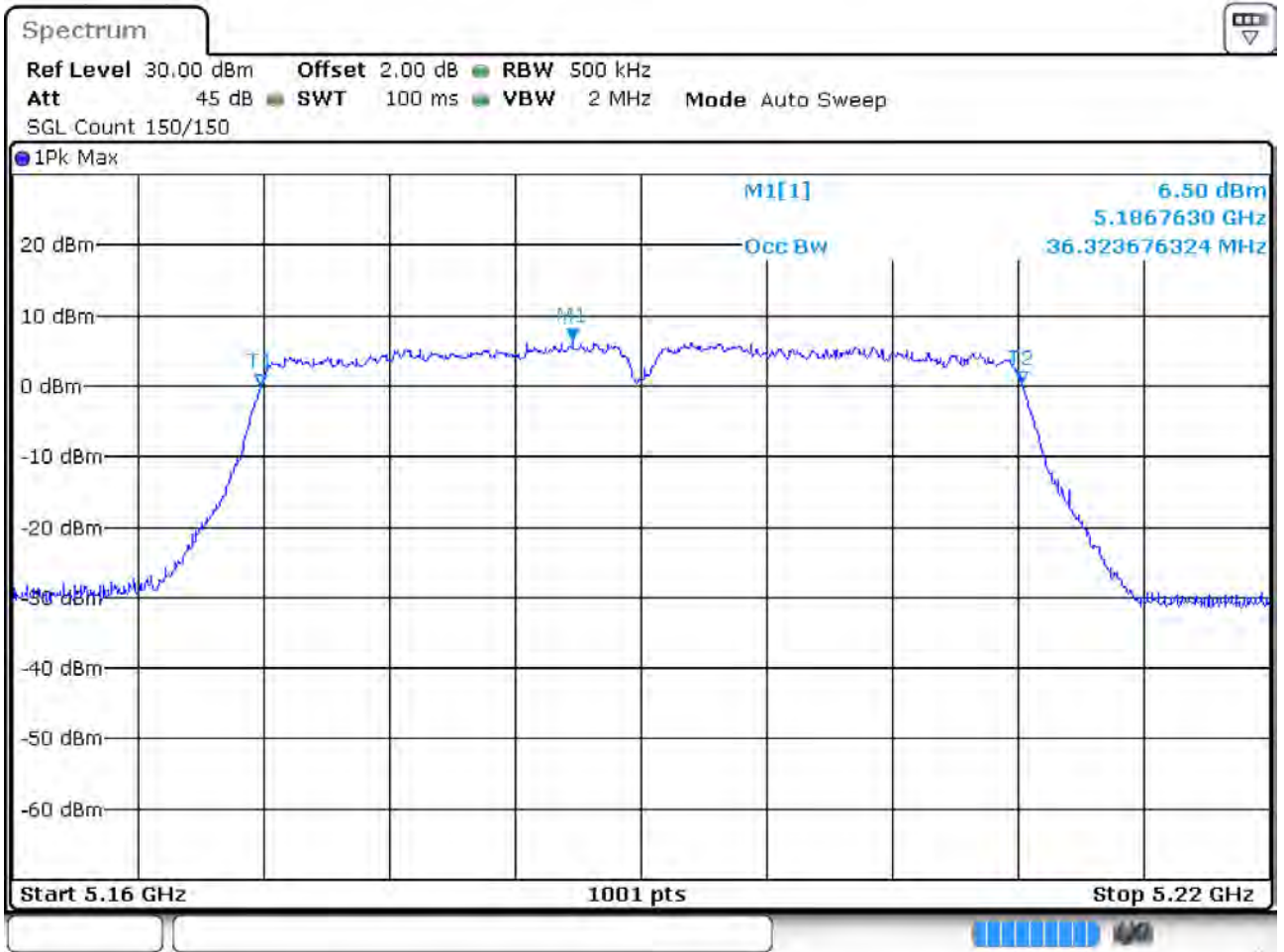


Date: 11.SEP.2020 17:14:40



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**4.7.2.25 11N40\_38 ANT 1**

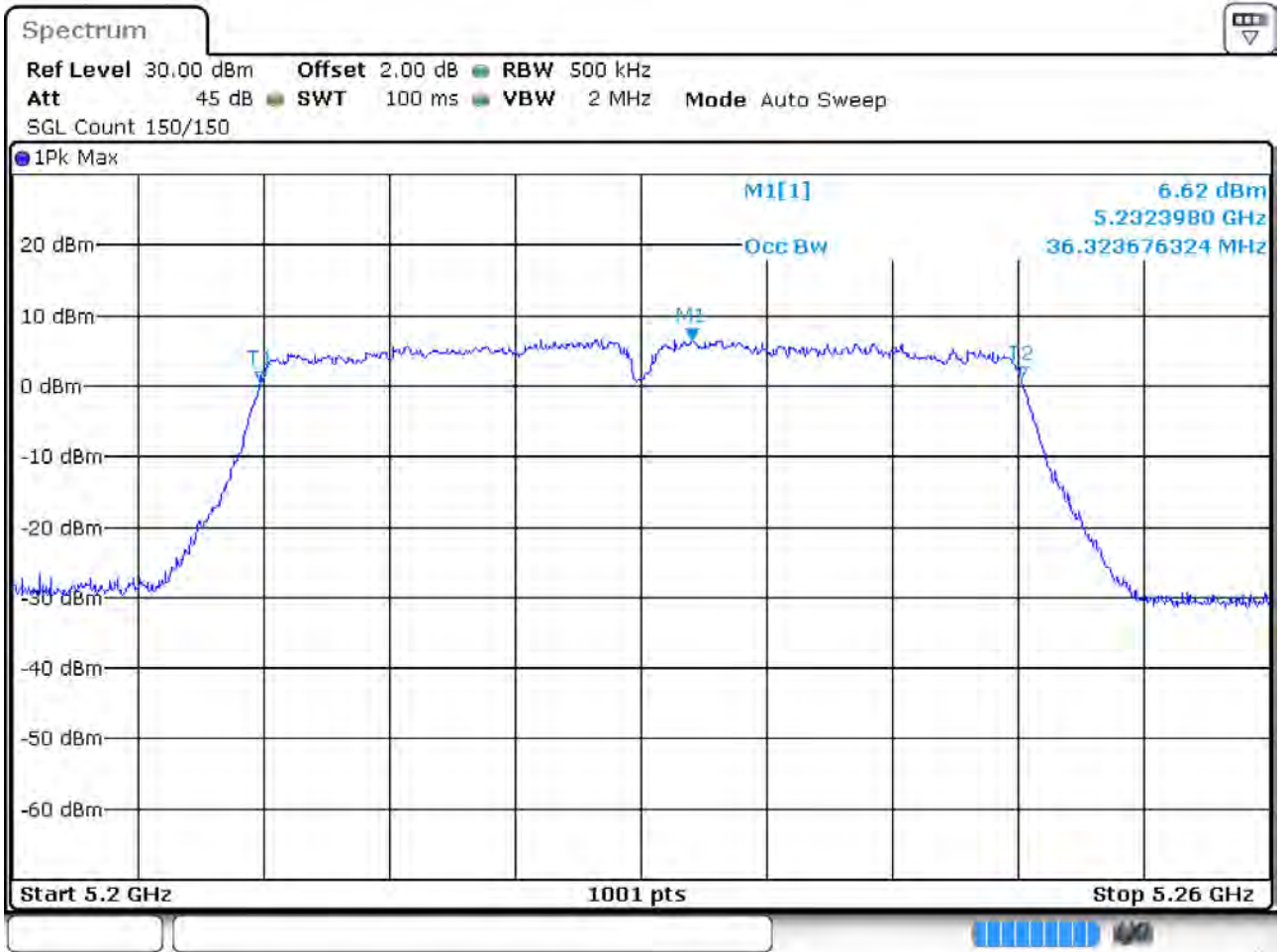


Date: 11.SEP.2020 17:17:14



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**4.7.2.26 11N40\_46 ANT 1**

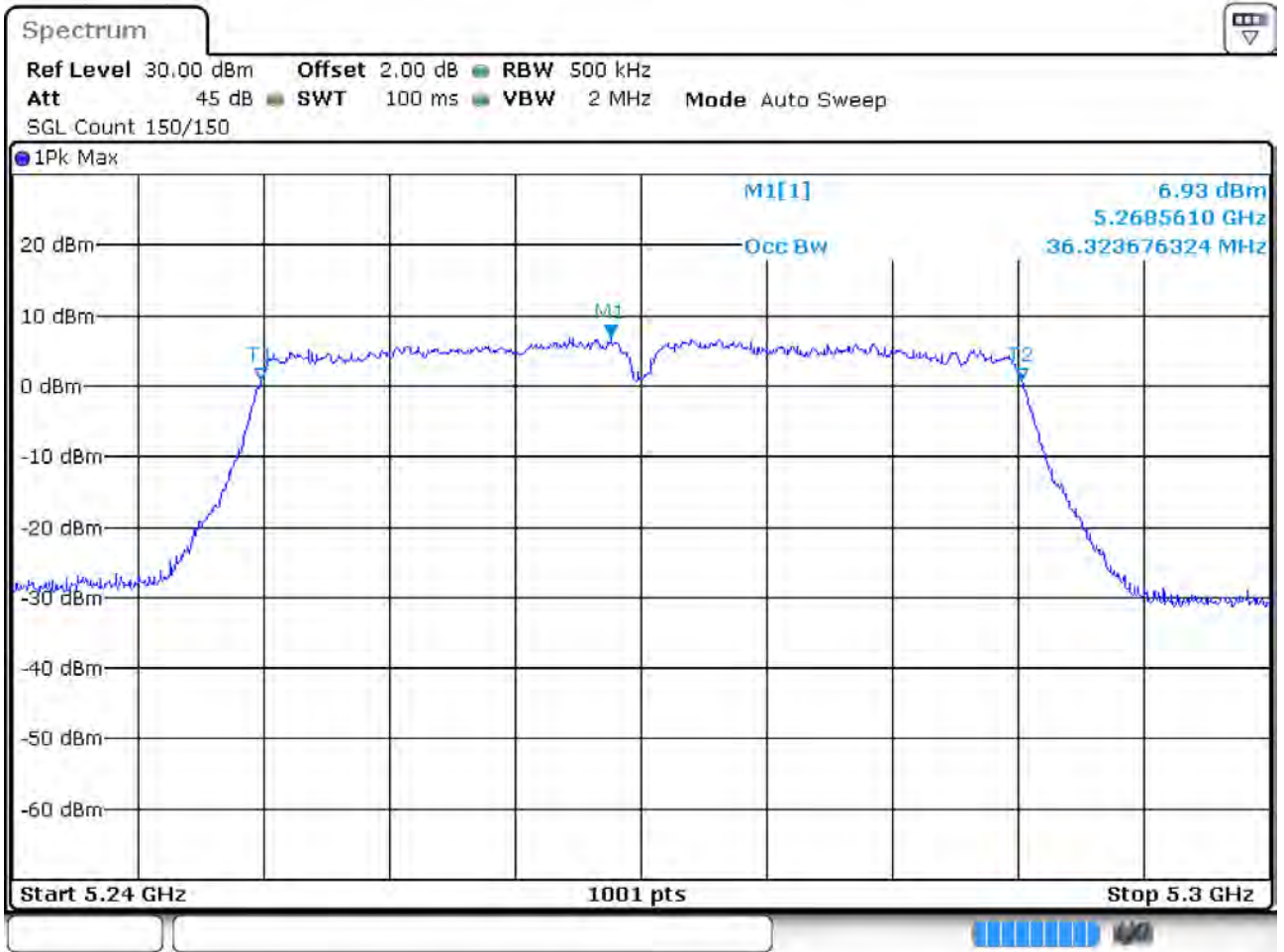


Date: 11.SEP.2020 17:19:11



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**4.7.2.27 11N40\_54 ANT 1**

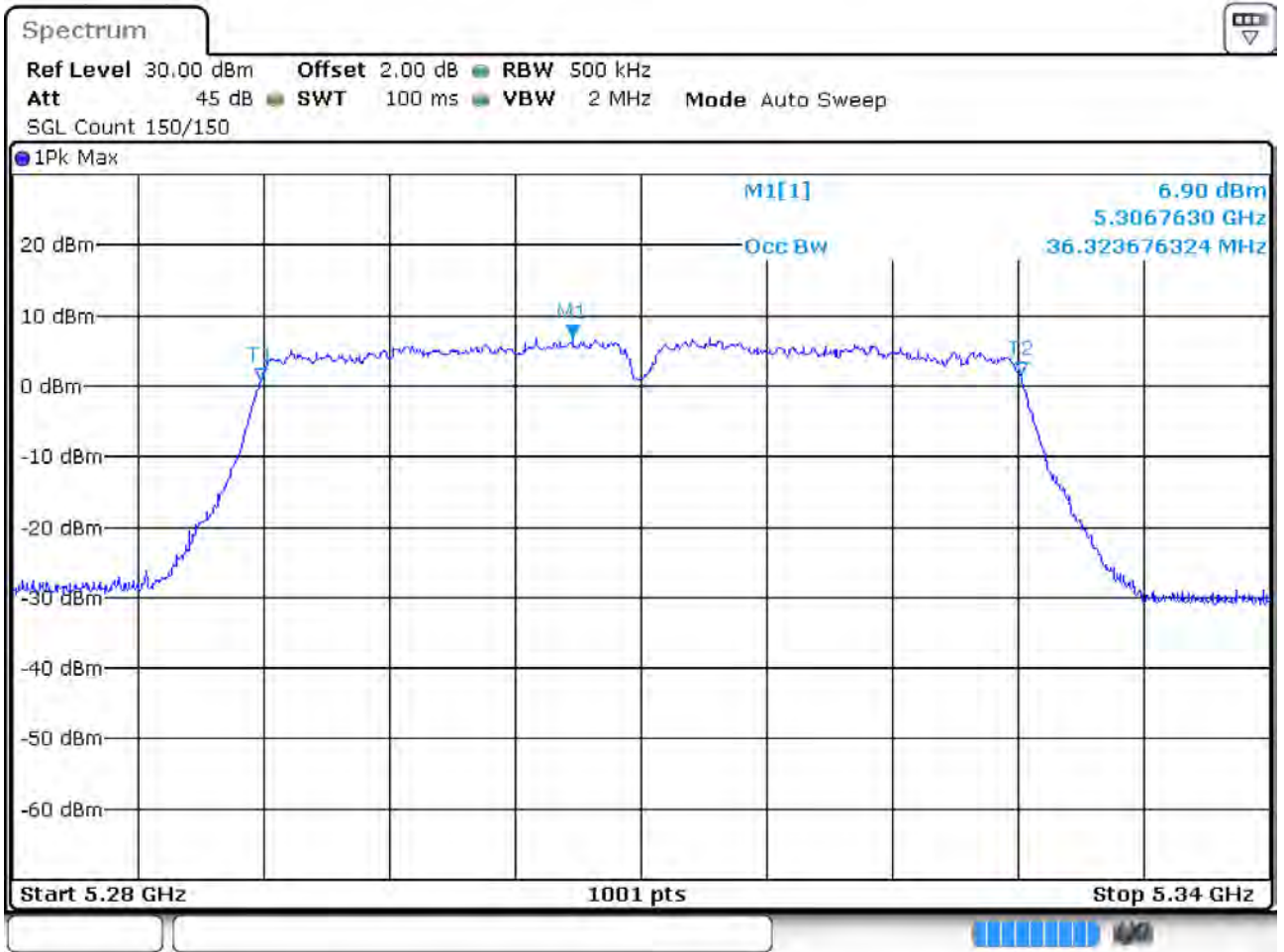


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**4.7.2.28 11N40\_62 ANT 1**

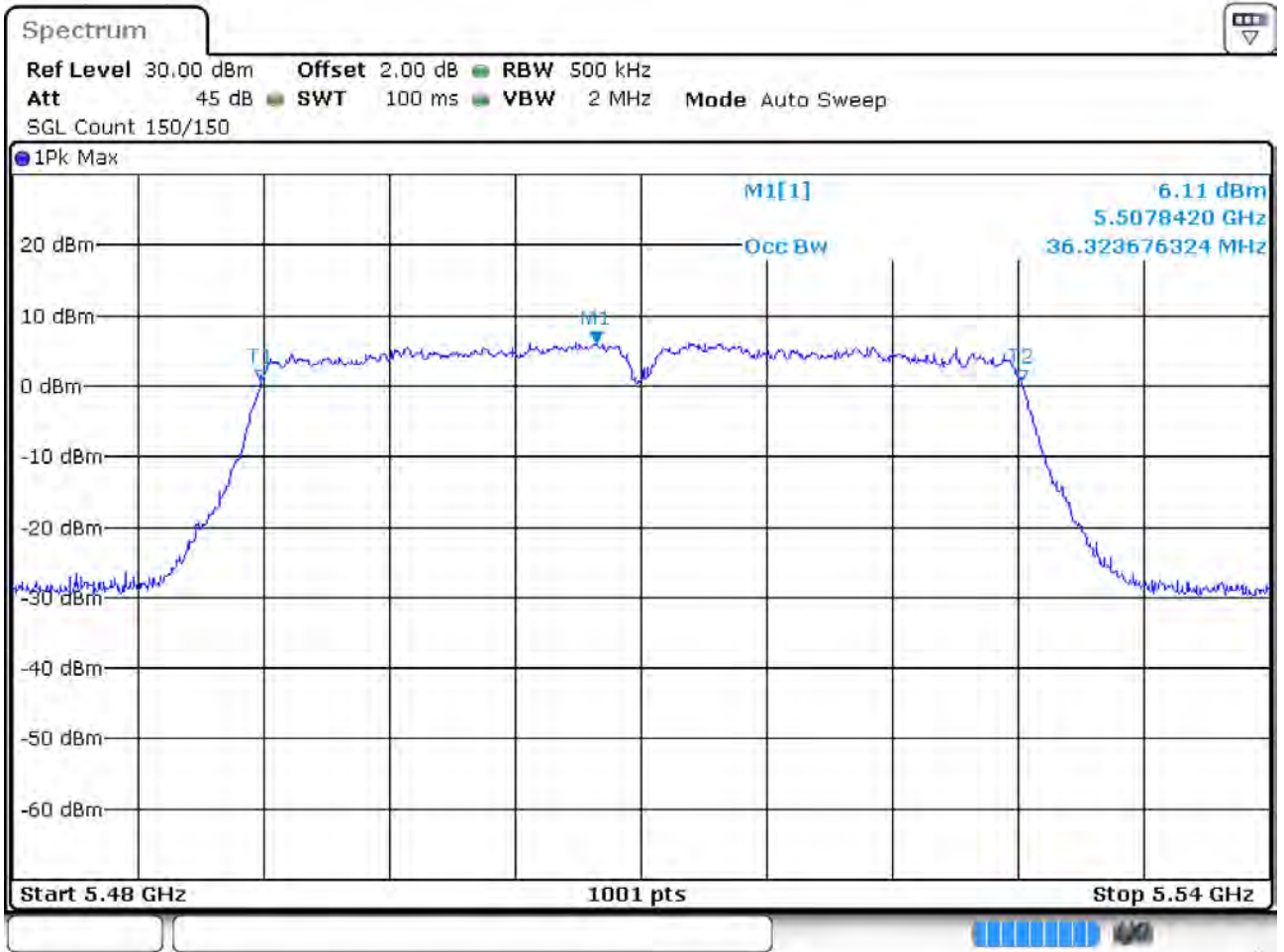


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**4.7.2.29 11N40\_102 ANT 1**



Date: 11.SEP.2020 17:25:55

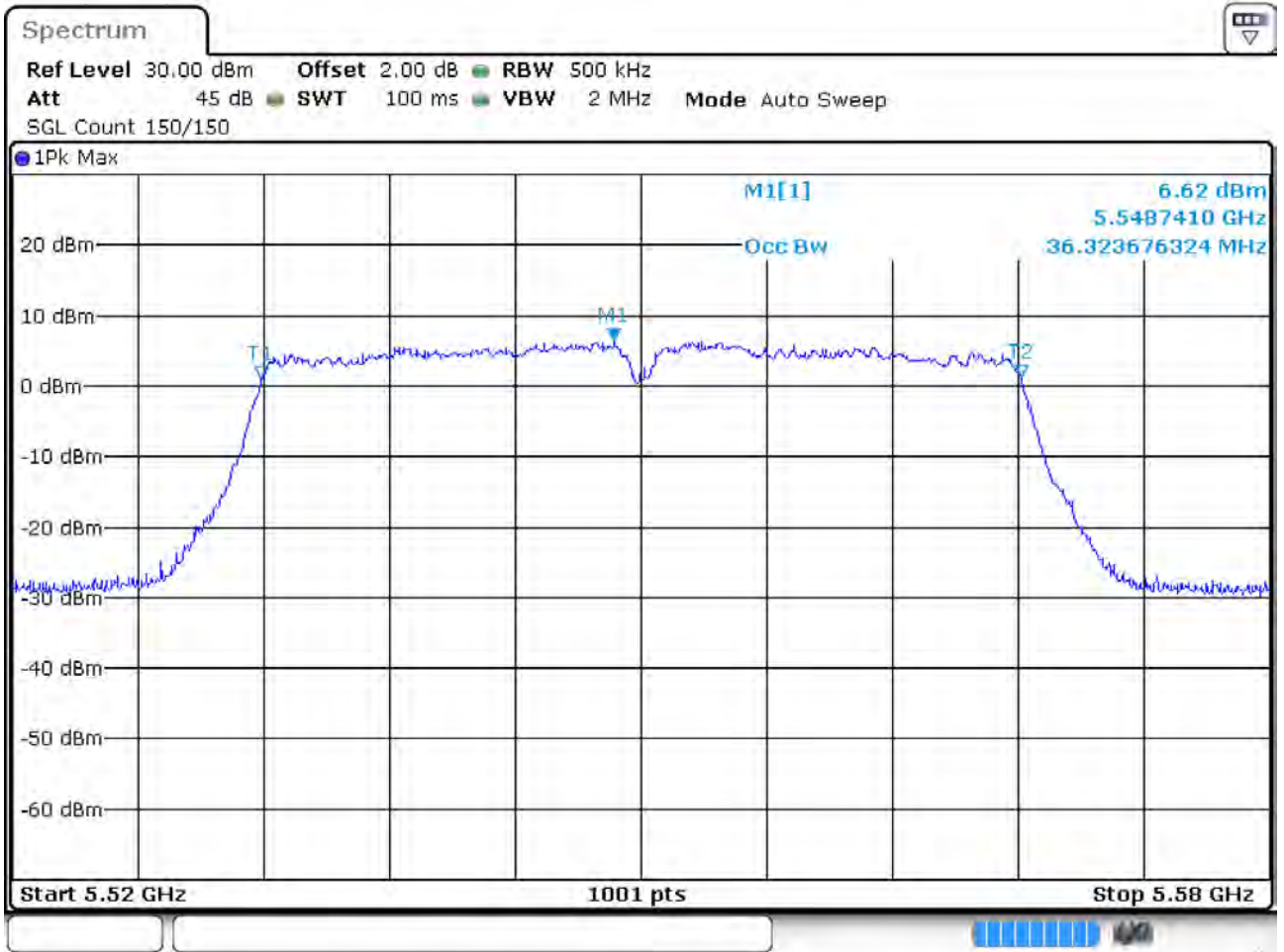


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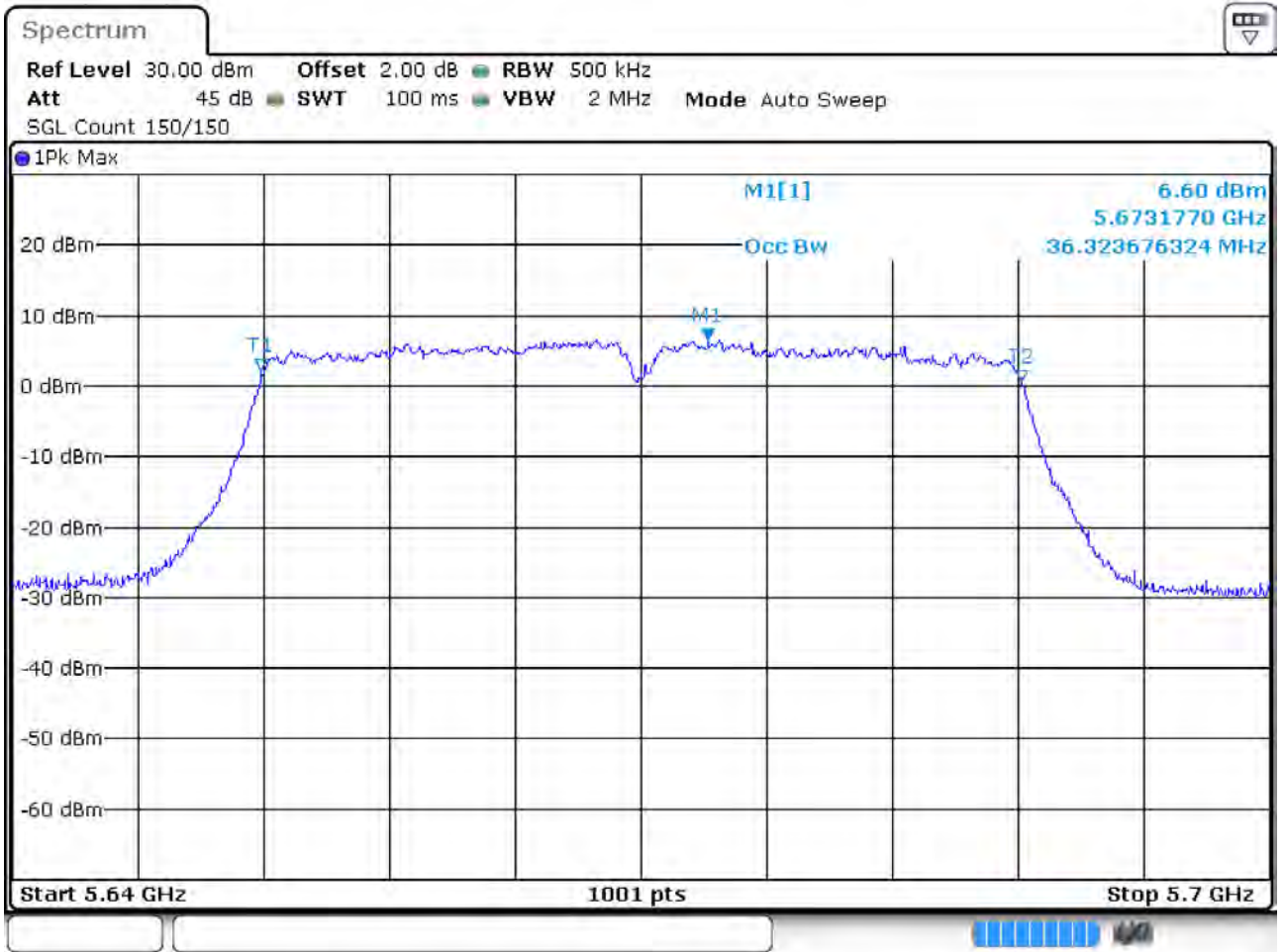
4.7.2.30 11N40\_110 ANT 1



Date: 11.SEP.2020 17:27:30



4.7.2.31 11N40\_134 ANT 1

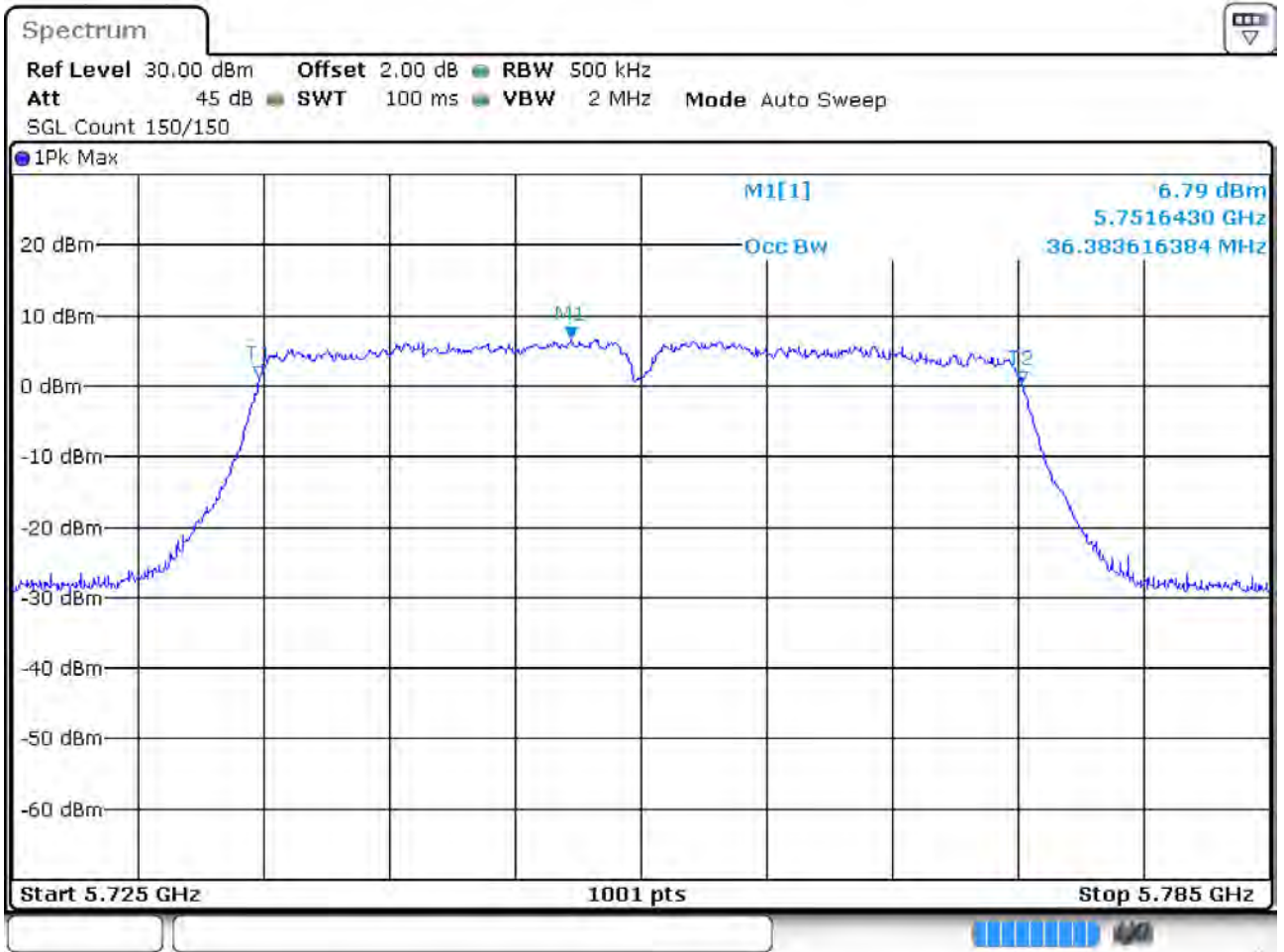


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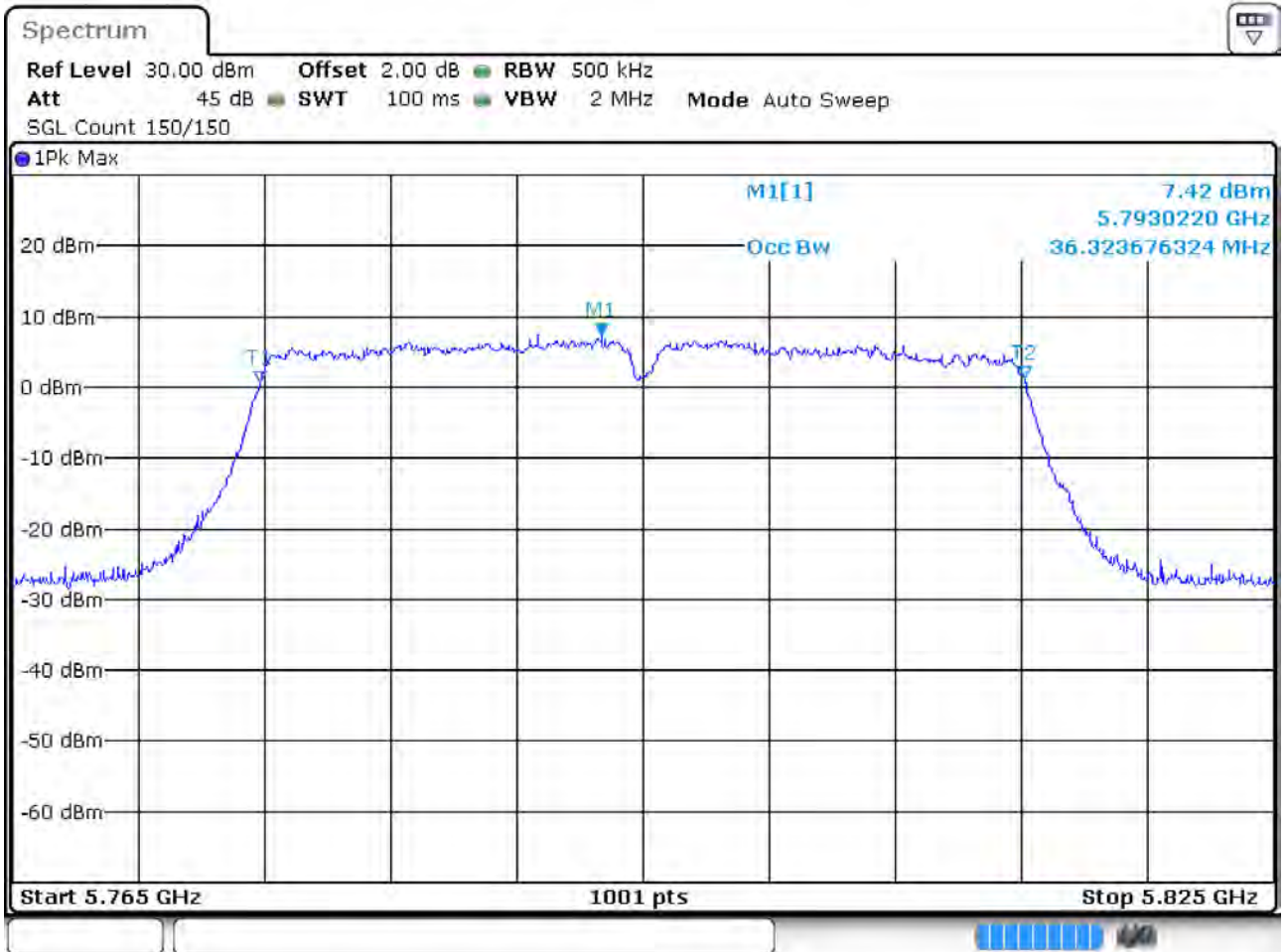
4.7.2.32 11N40\_151 ANT 1



Date: 11.SEP.2020 17:30:58



**4.7.2.33 11N40\_159 ANT 1**

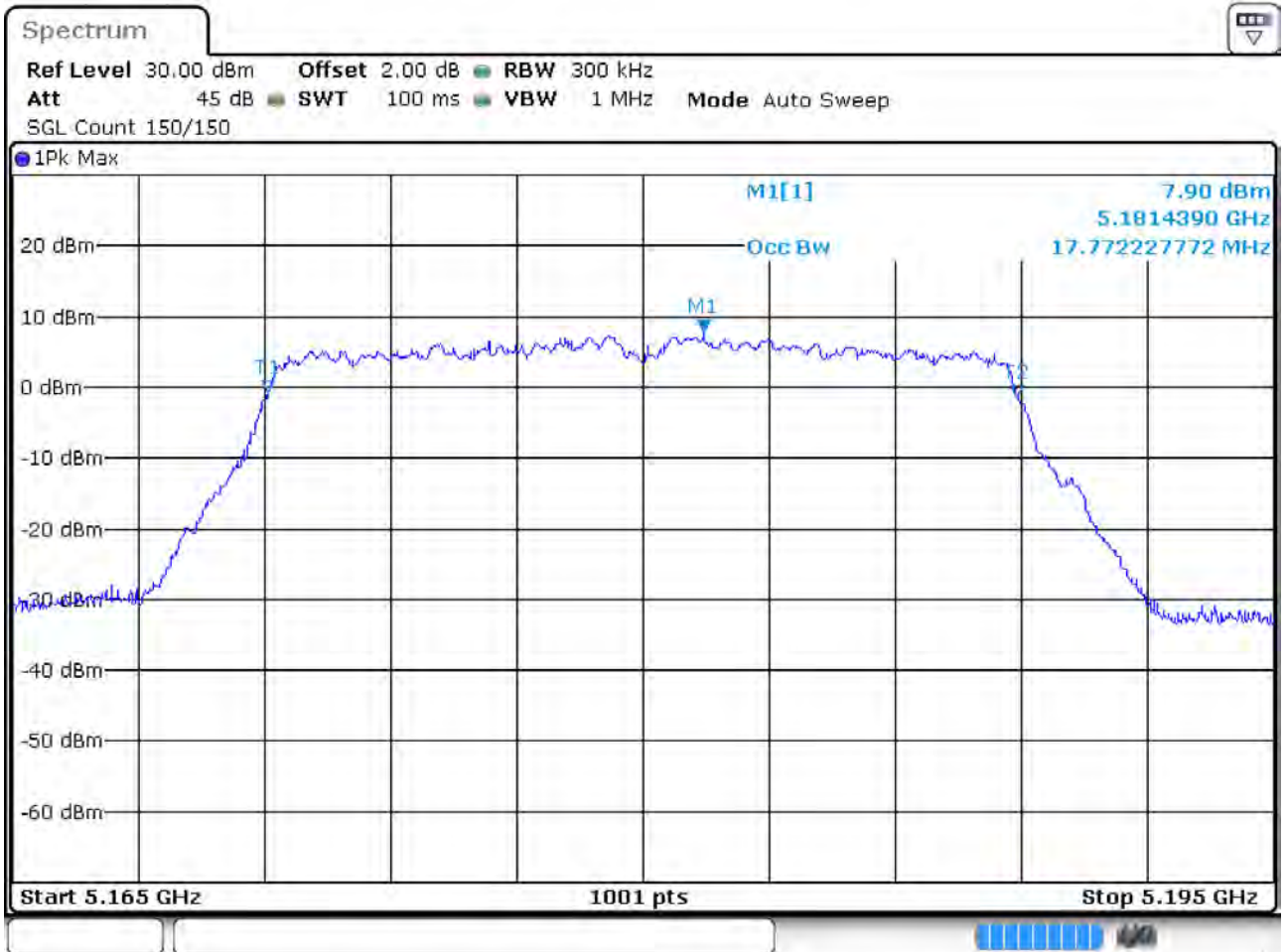


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**4.7.2.34 11AC20\_36 ANT 1**

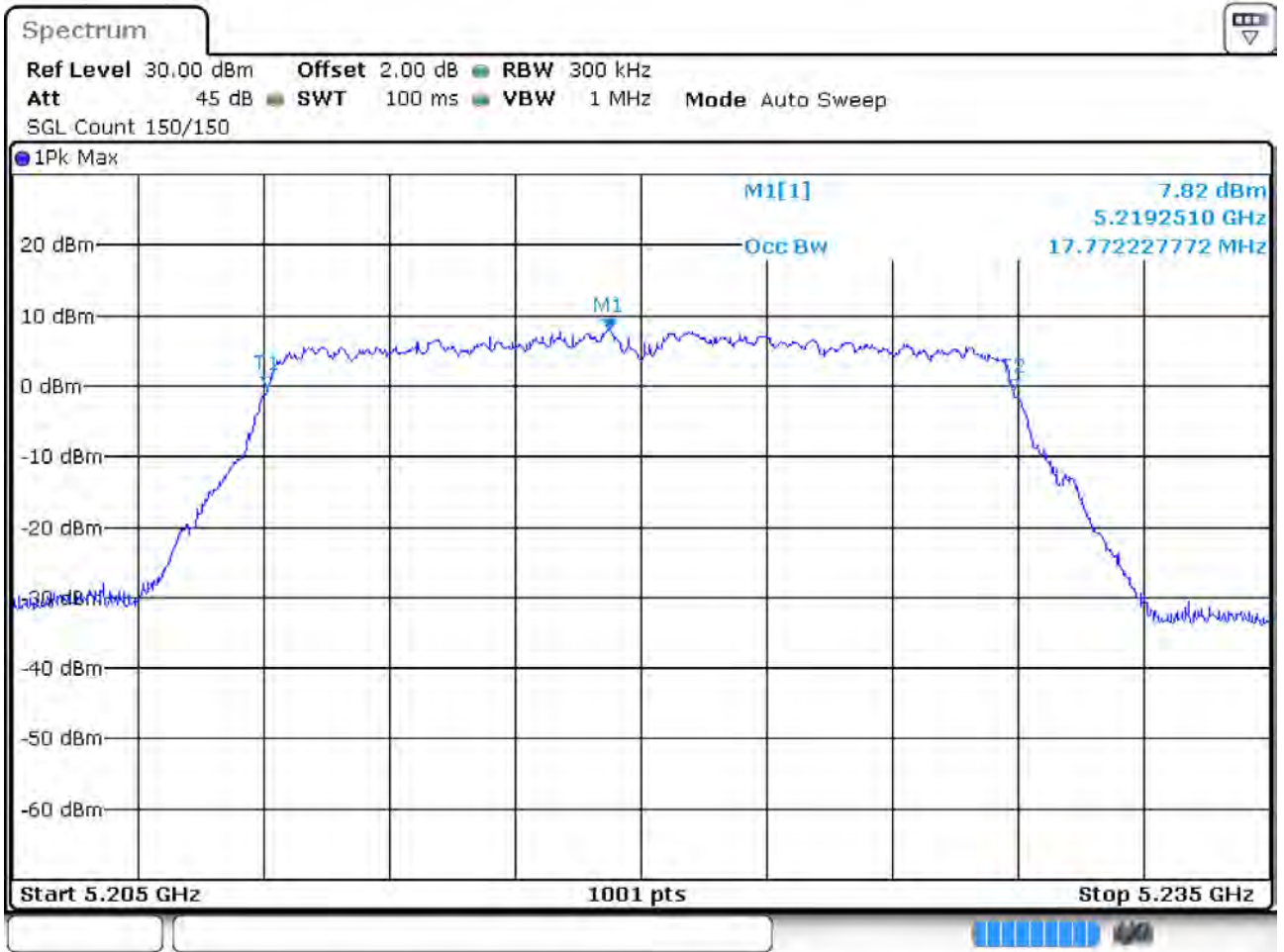


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4.7.2.35 11AC20\_44 ANT 1



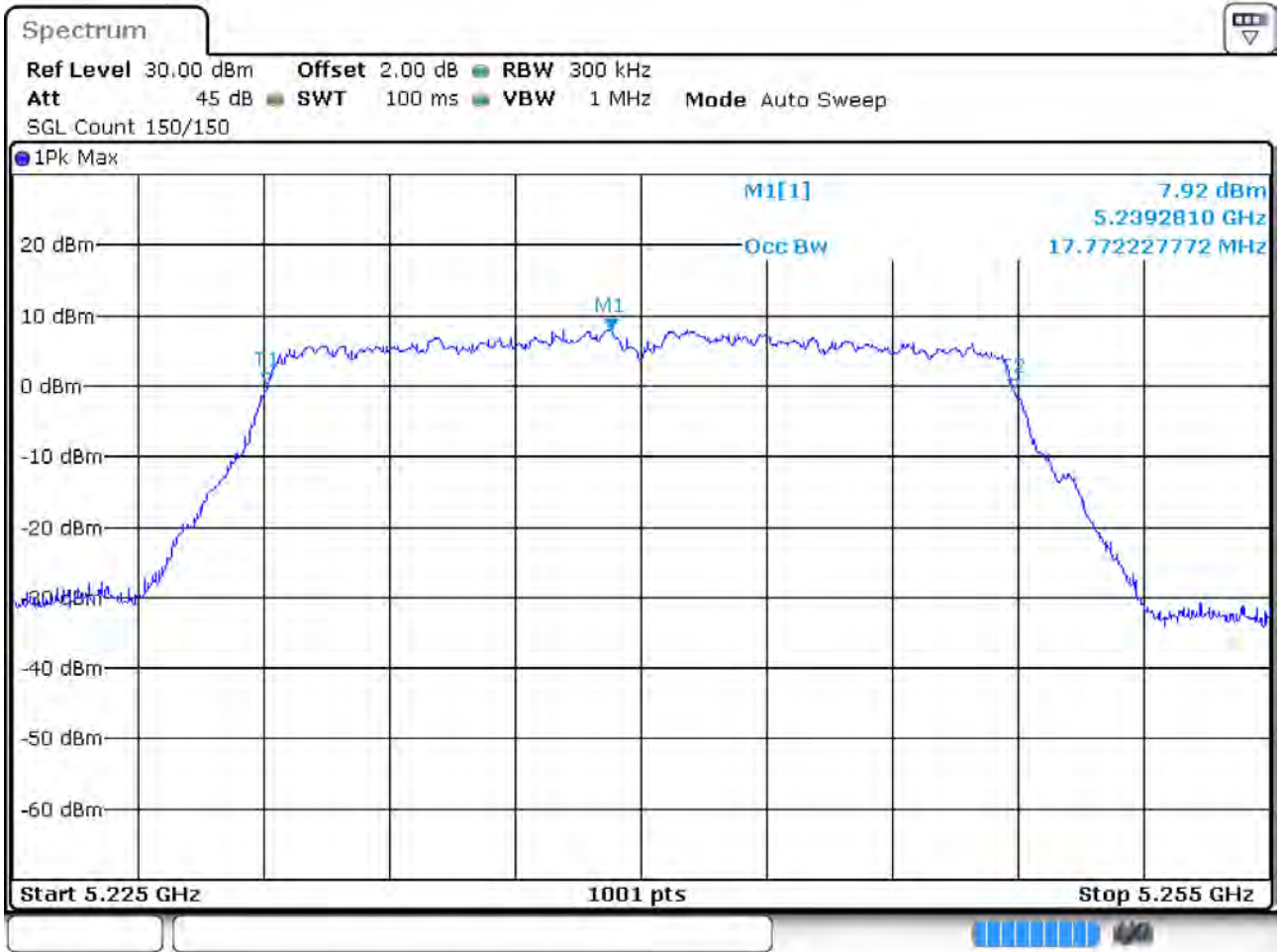
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4.7.2.36 11AC20\_48 ANT 1

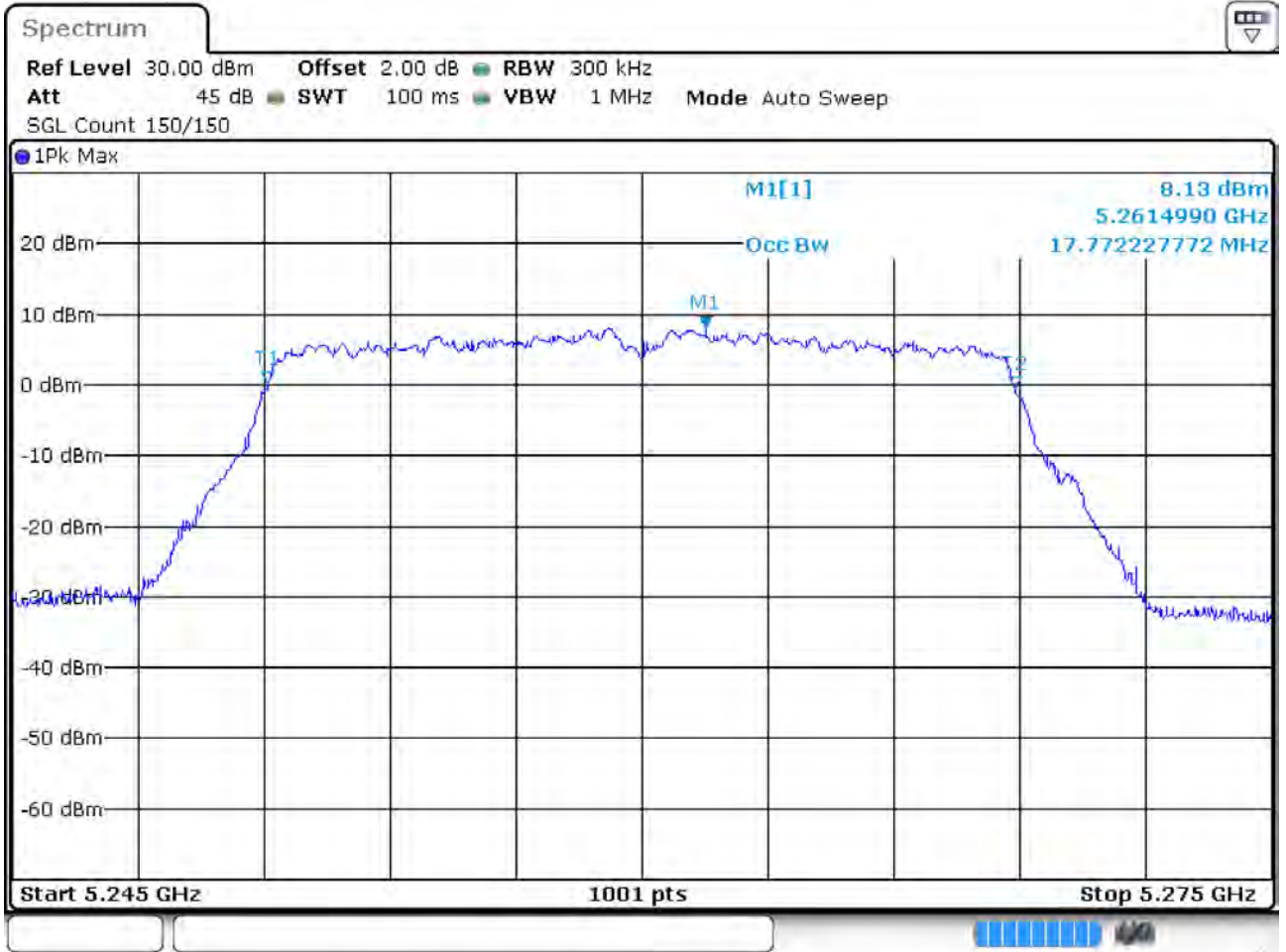


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4.7.2.37 11AC20\_52 ANT 1

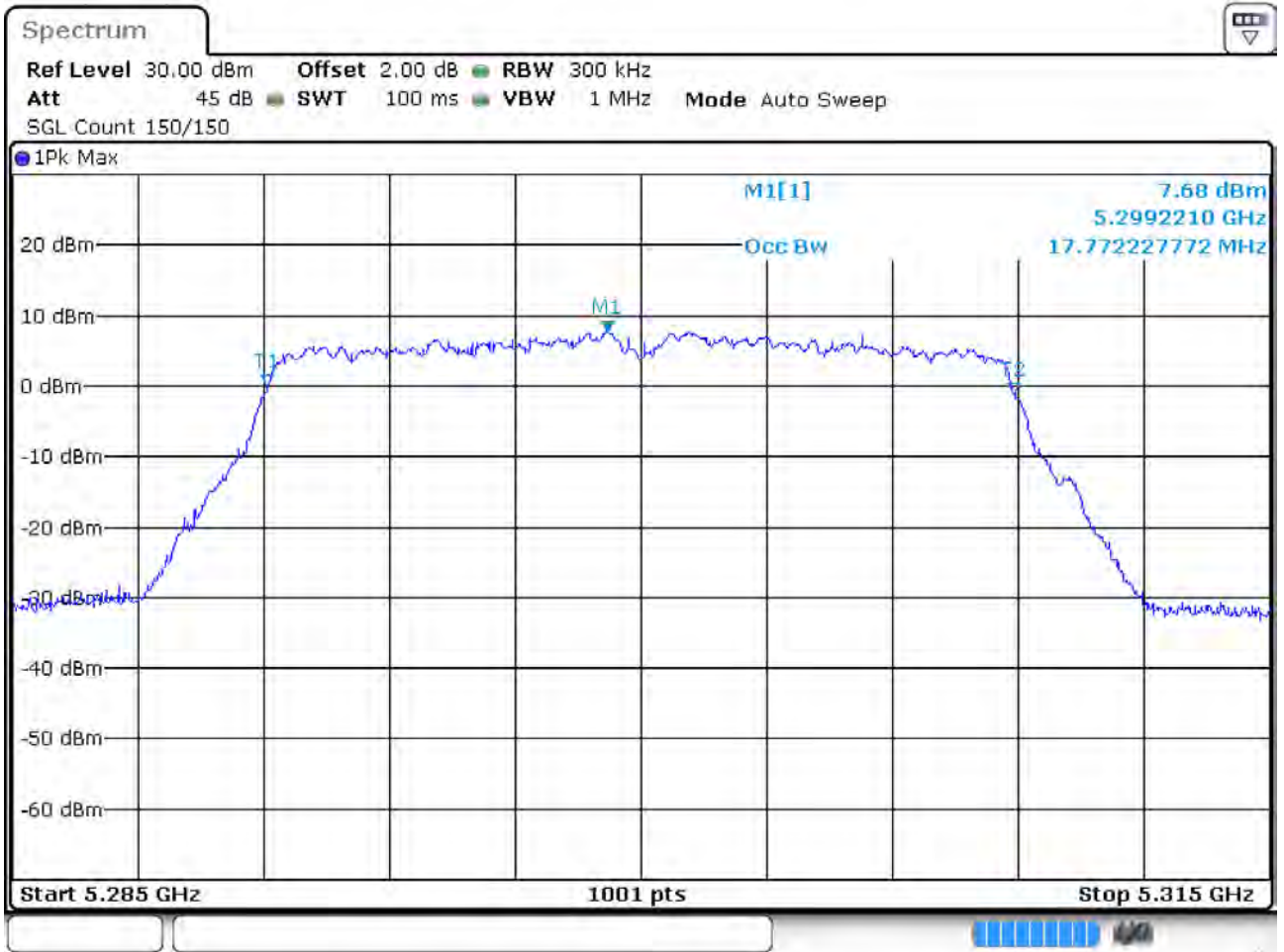


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**4.7.2.38 11AC20\_60 ANT 1**

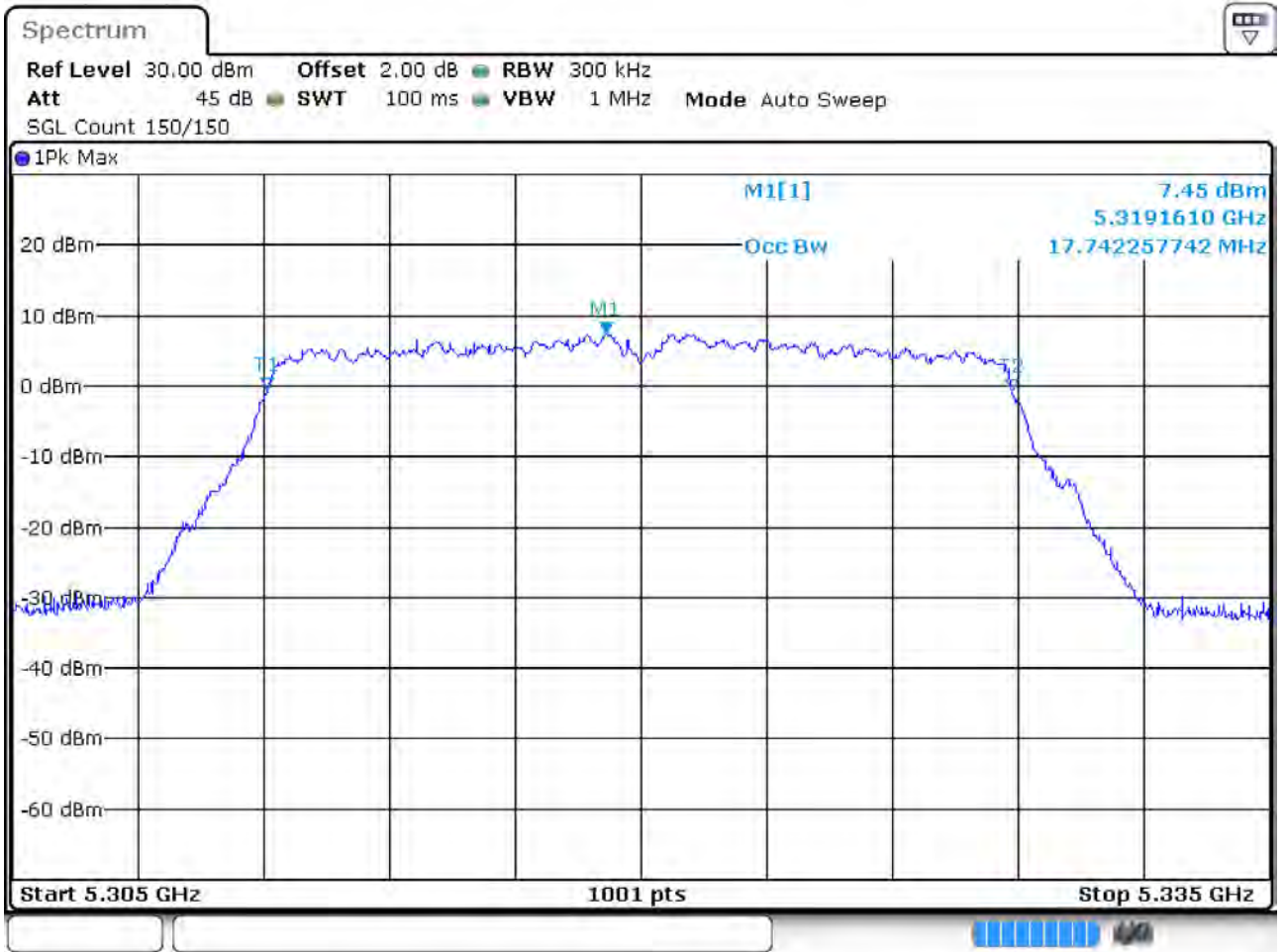


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**4.7.2.39 11AC20\_64 ANT 1**

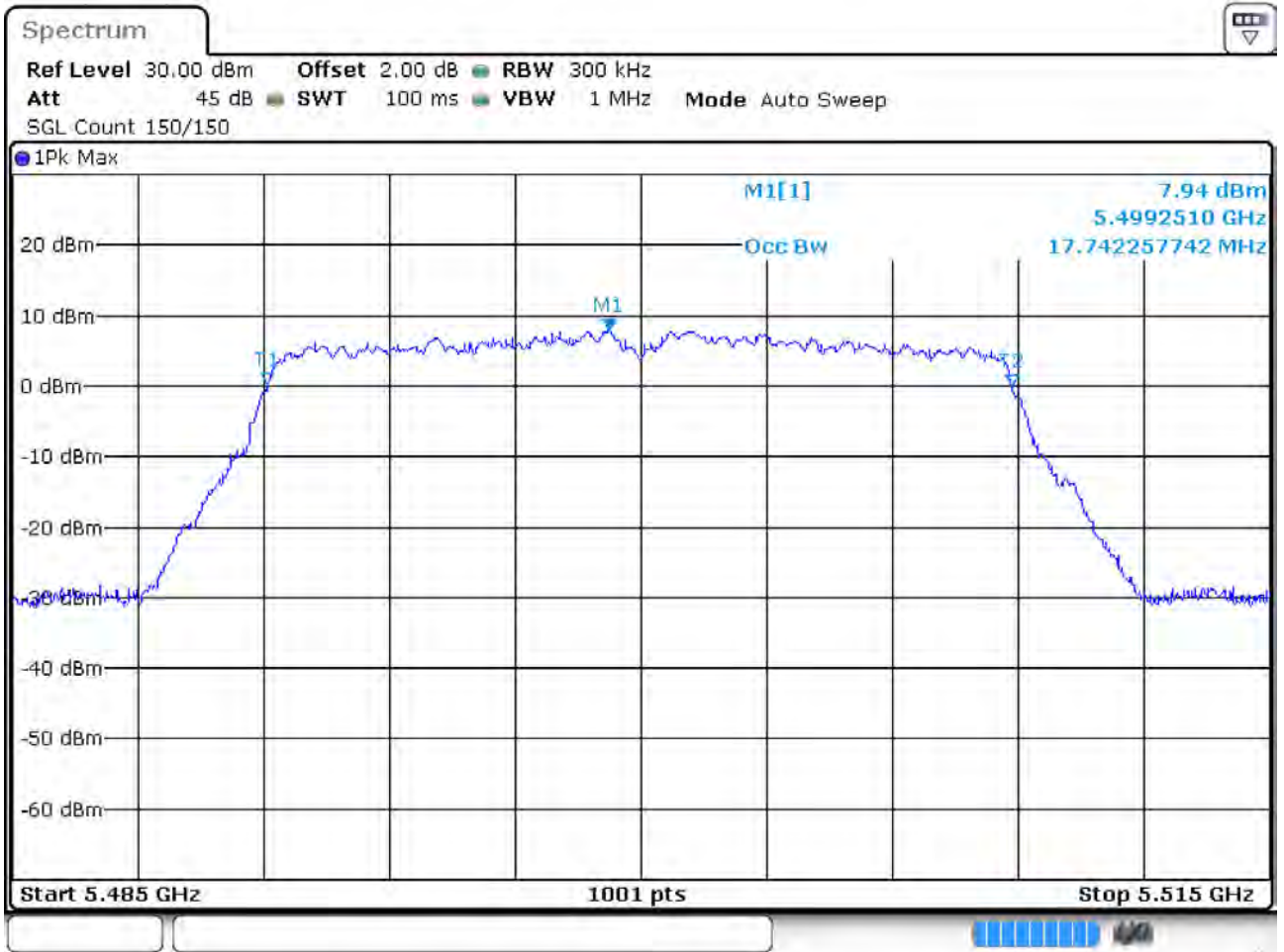


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**4.7.2.40 11AC20\_100 ANT 1**

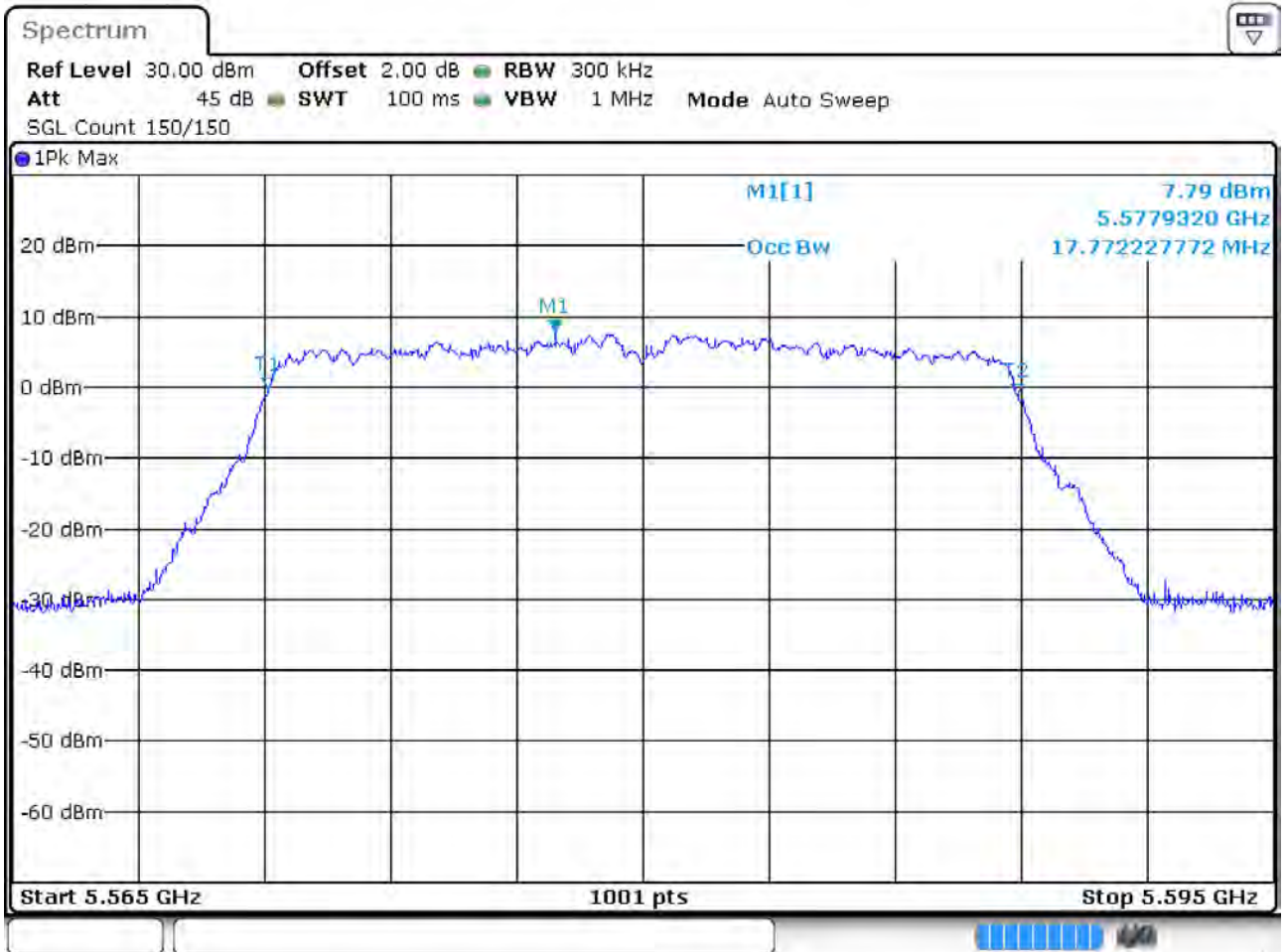


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**4.7.2.41 11AC20\_116 ANT 1**



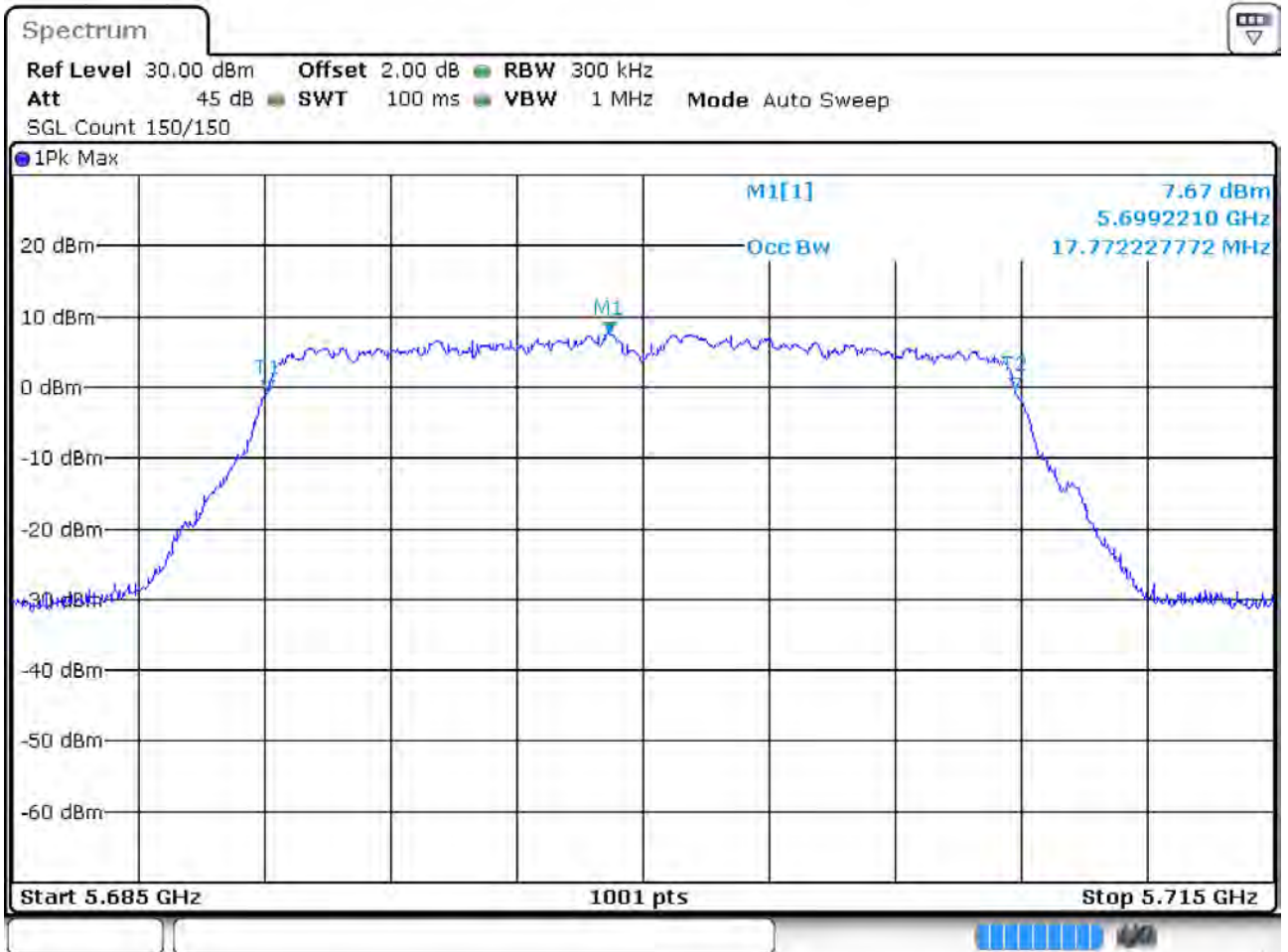
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**4.7.2.42 11AC20\_140 ANT 1**

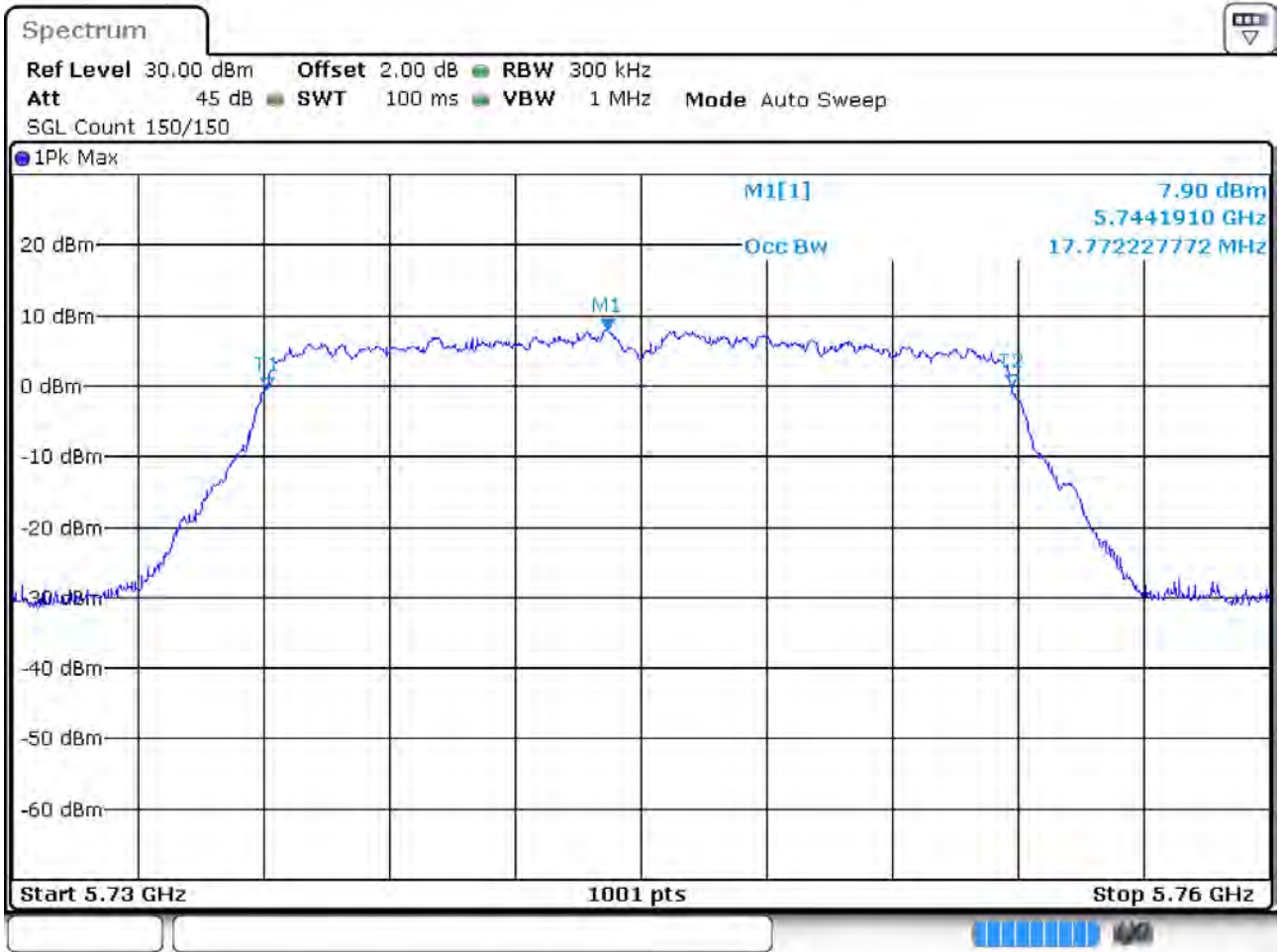


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**4.7.2.43 11AC20\_149 ANT 1**

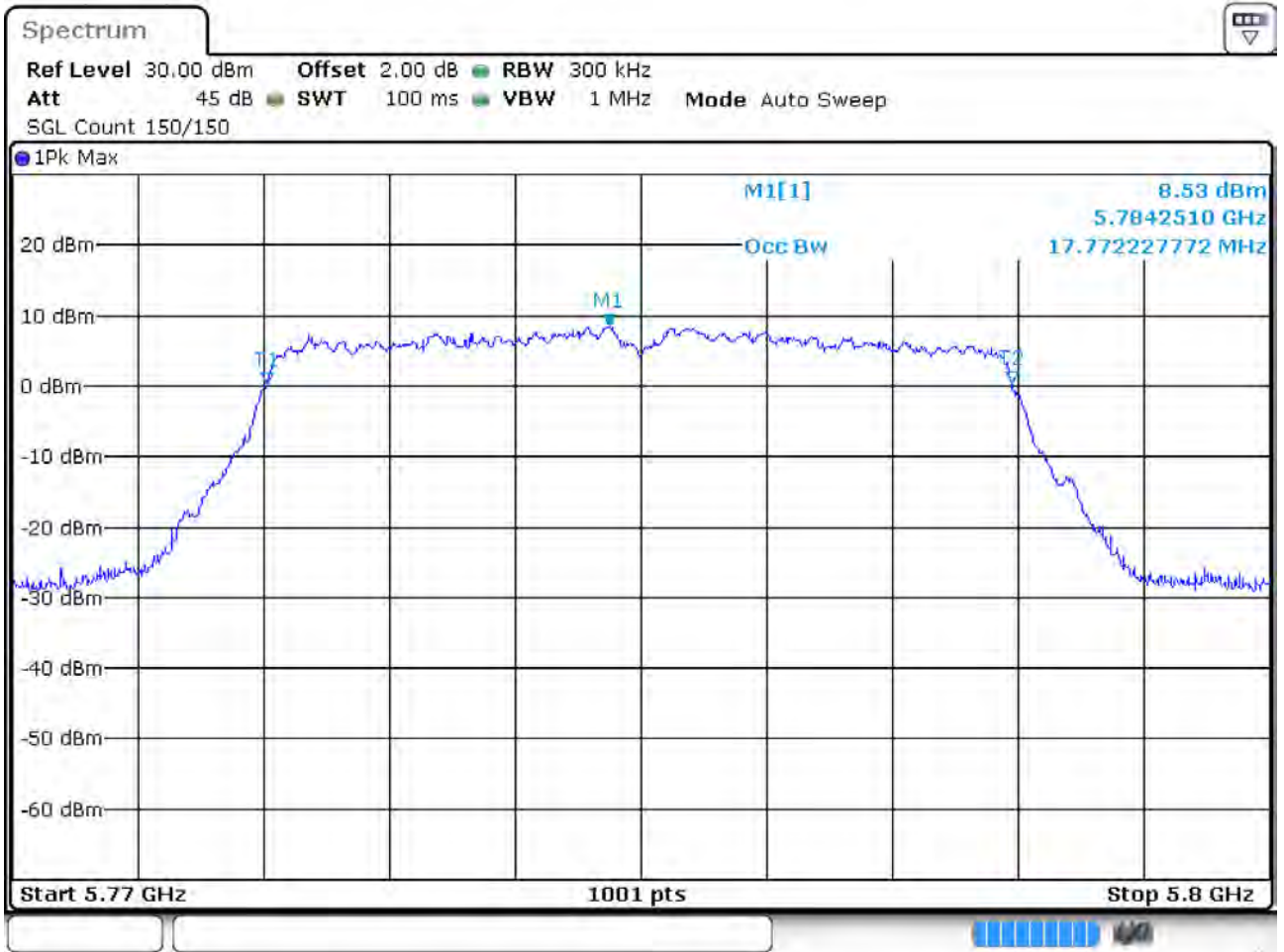


Date: 11.SEP.2020 17:49:16



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**4.7.2.44 11AC20\_157 ANT 1**



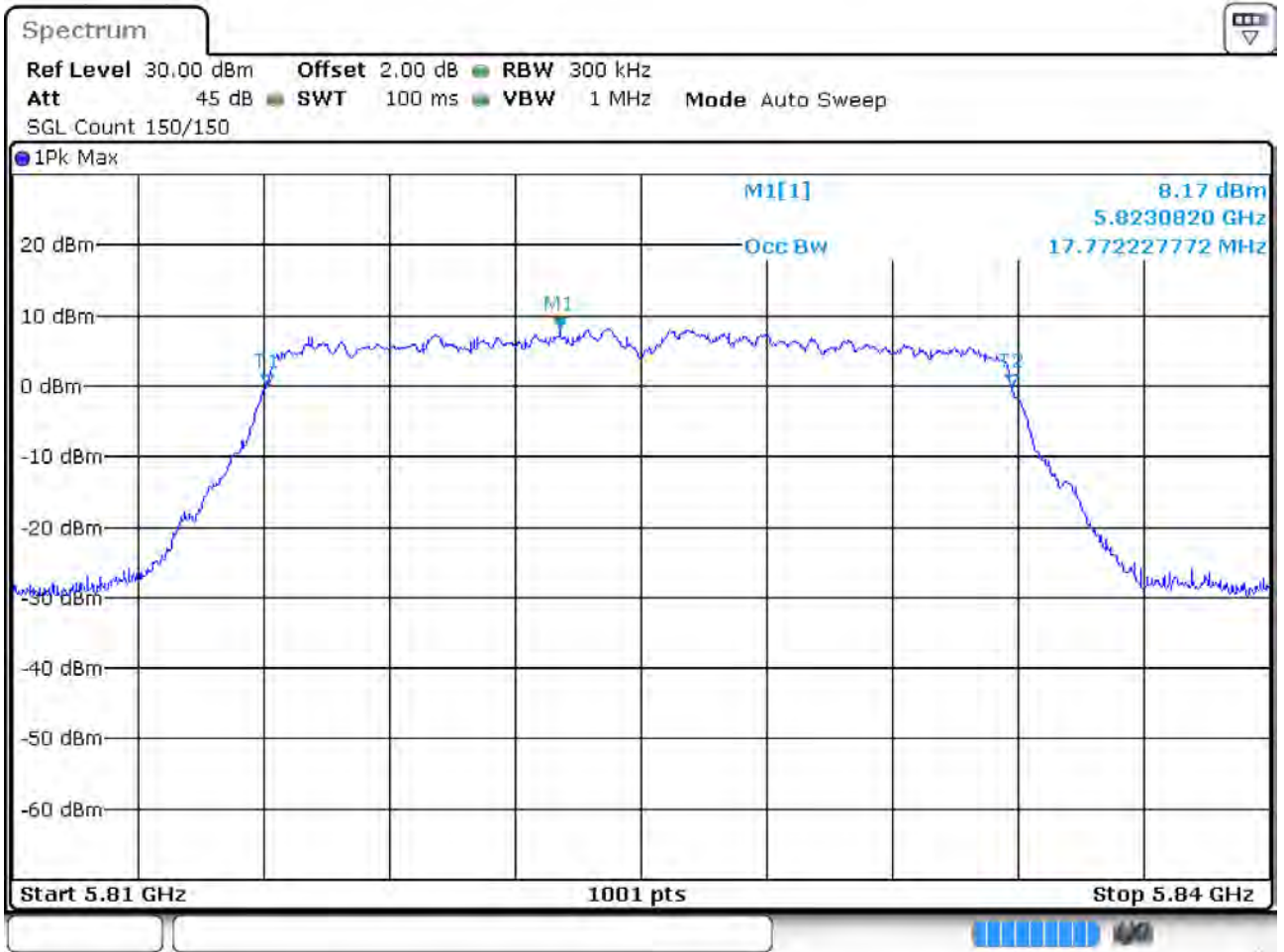
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**4.7.2.45 11AC20\_165 ANT 1**



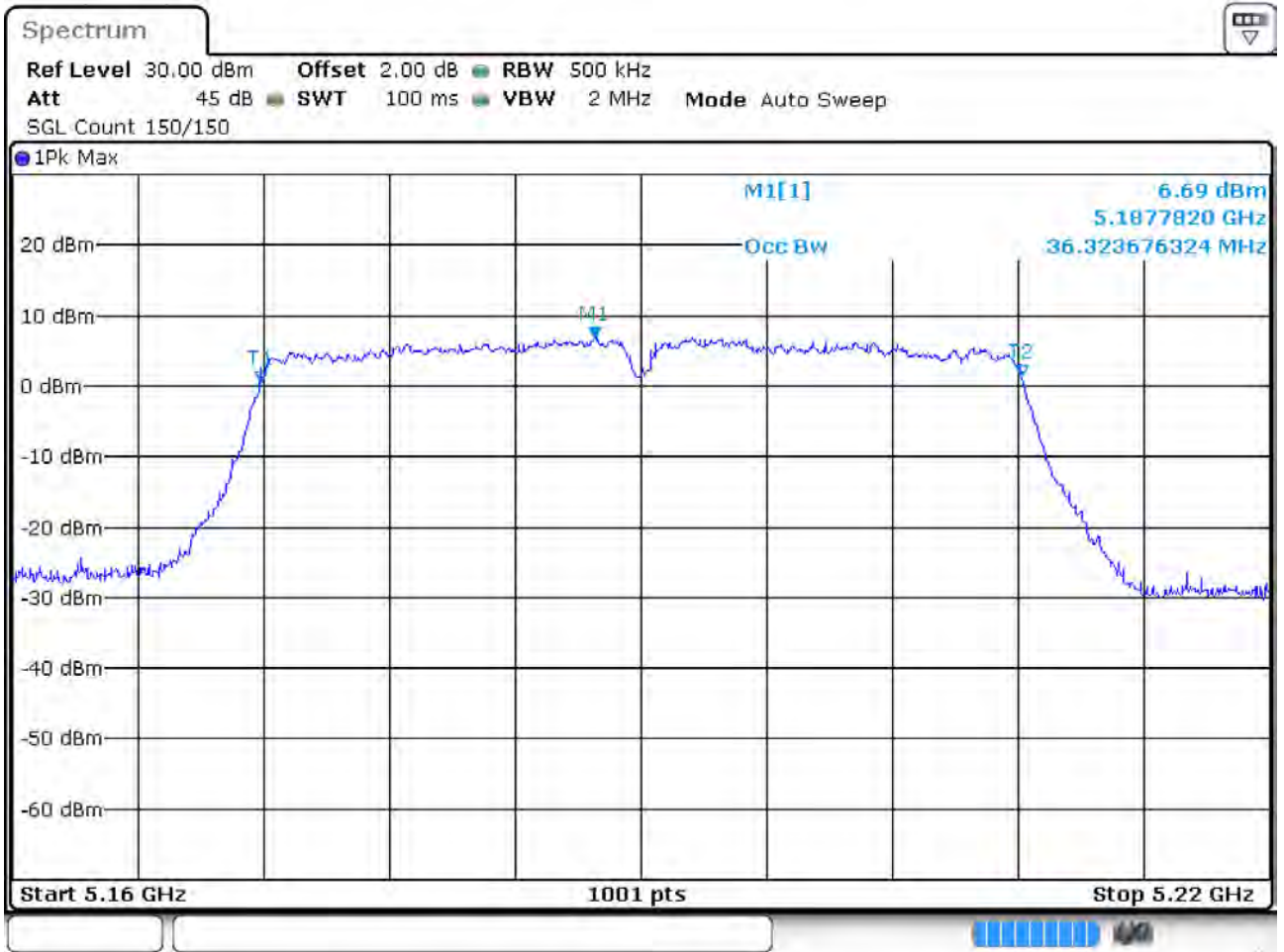
Date: 11.SEP.2020 17:53:13



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**4.7.2.46 11AC40\_38 ANT 1**

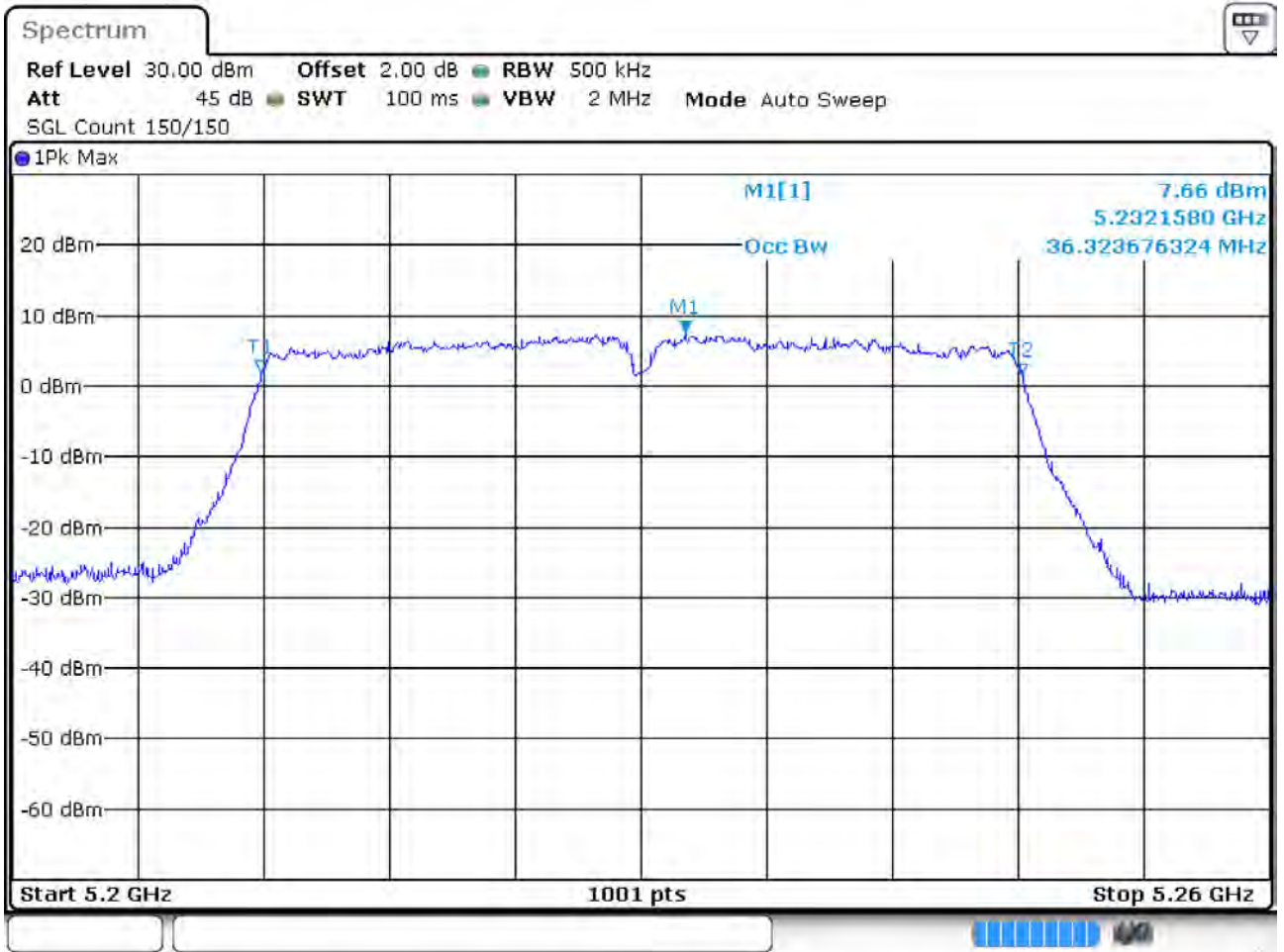


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**4.7.2.47 11AC40\_46 ANT 1**



Date: 11.SEP.2020 17:57:54

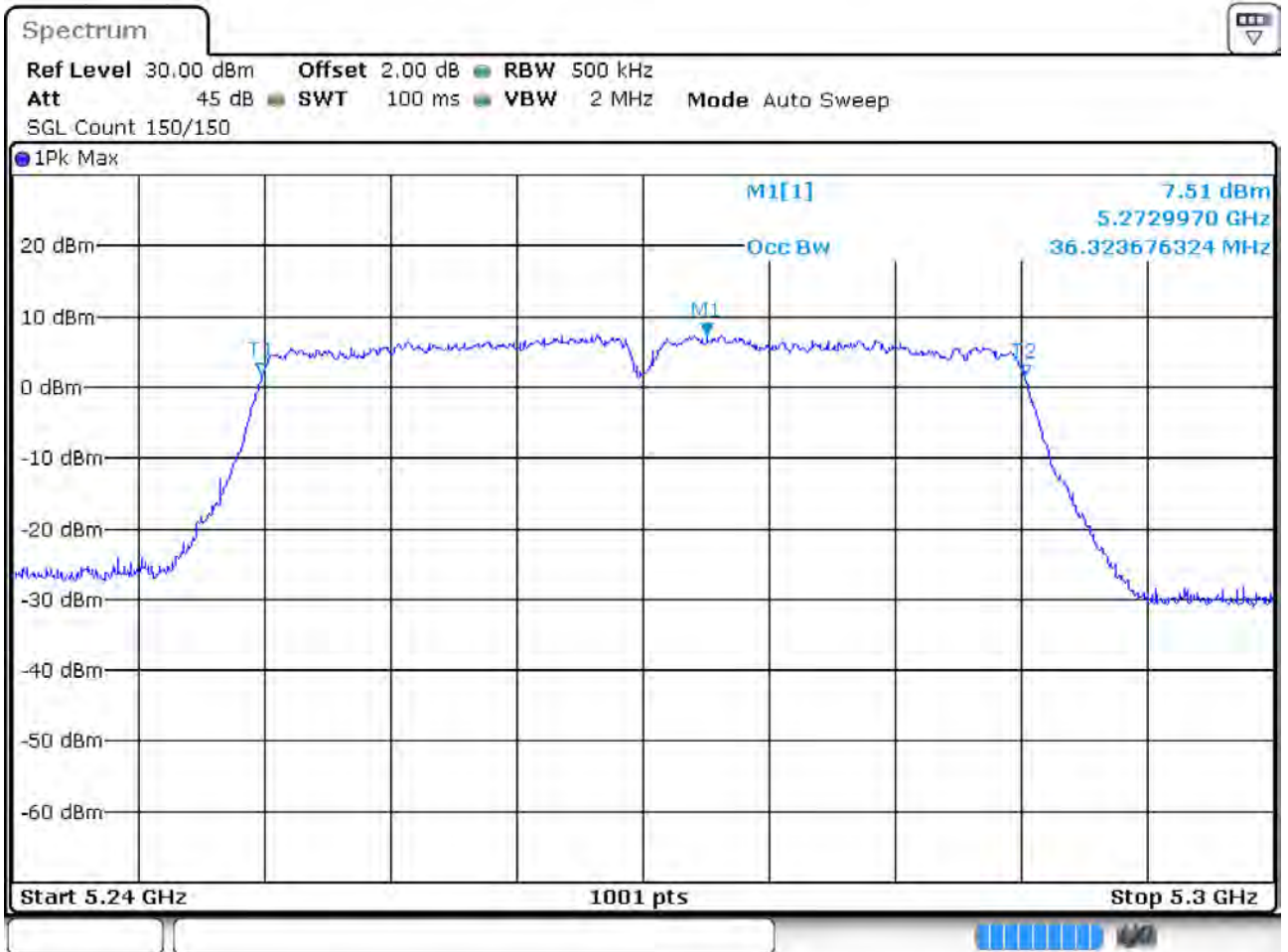


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4.7.2.48 11AC40\_54 ANT 1

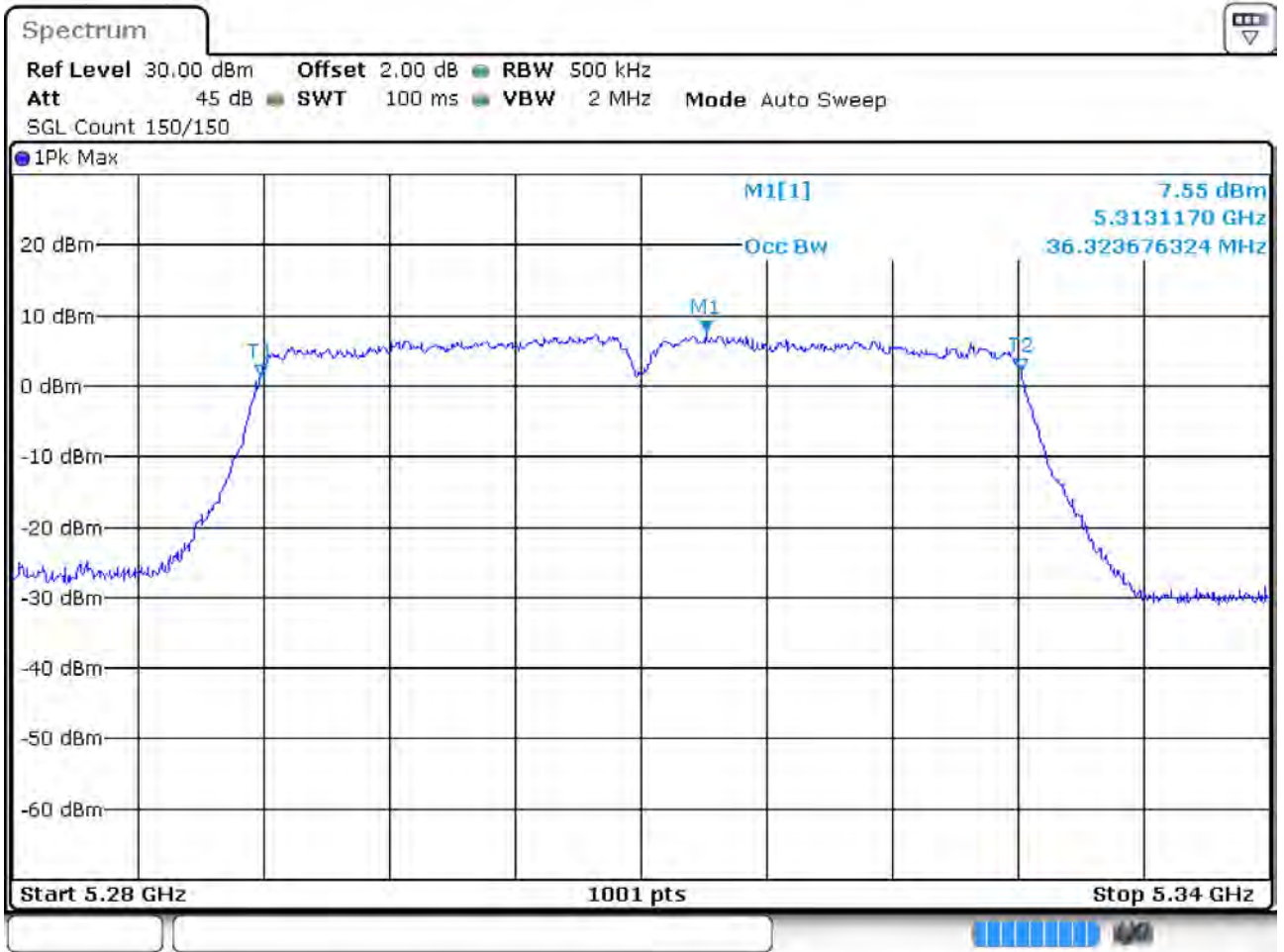


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**4.7.2.49 11AC40\_62 ANT 1**

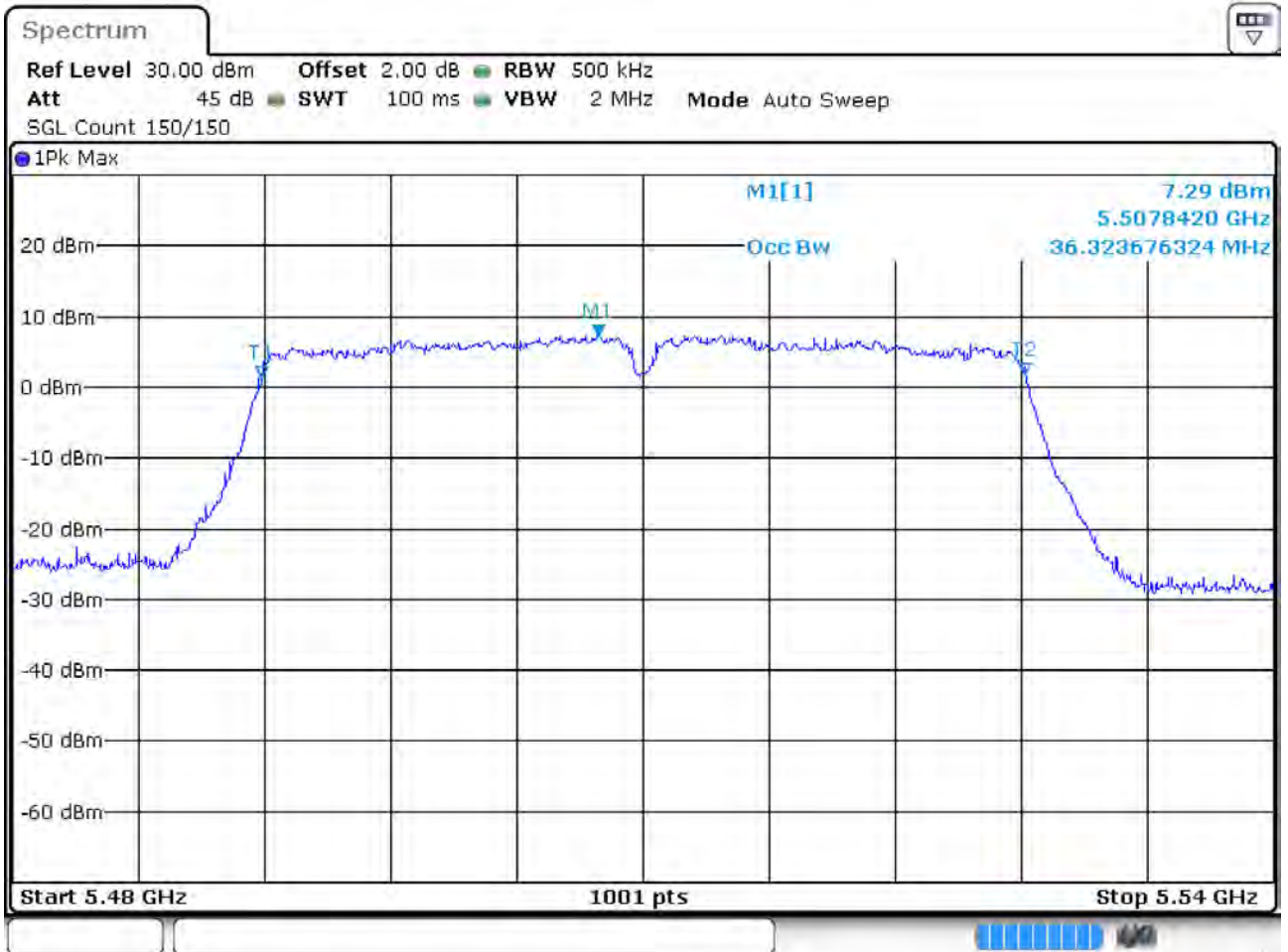


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**4.7.2.50 11AC40\_102 ANT 1**

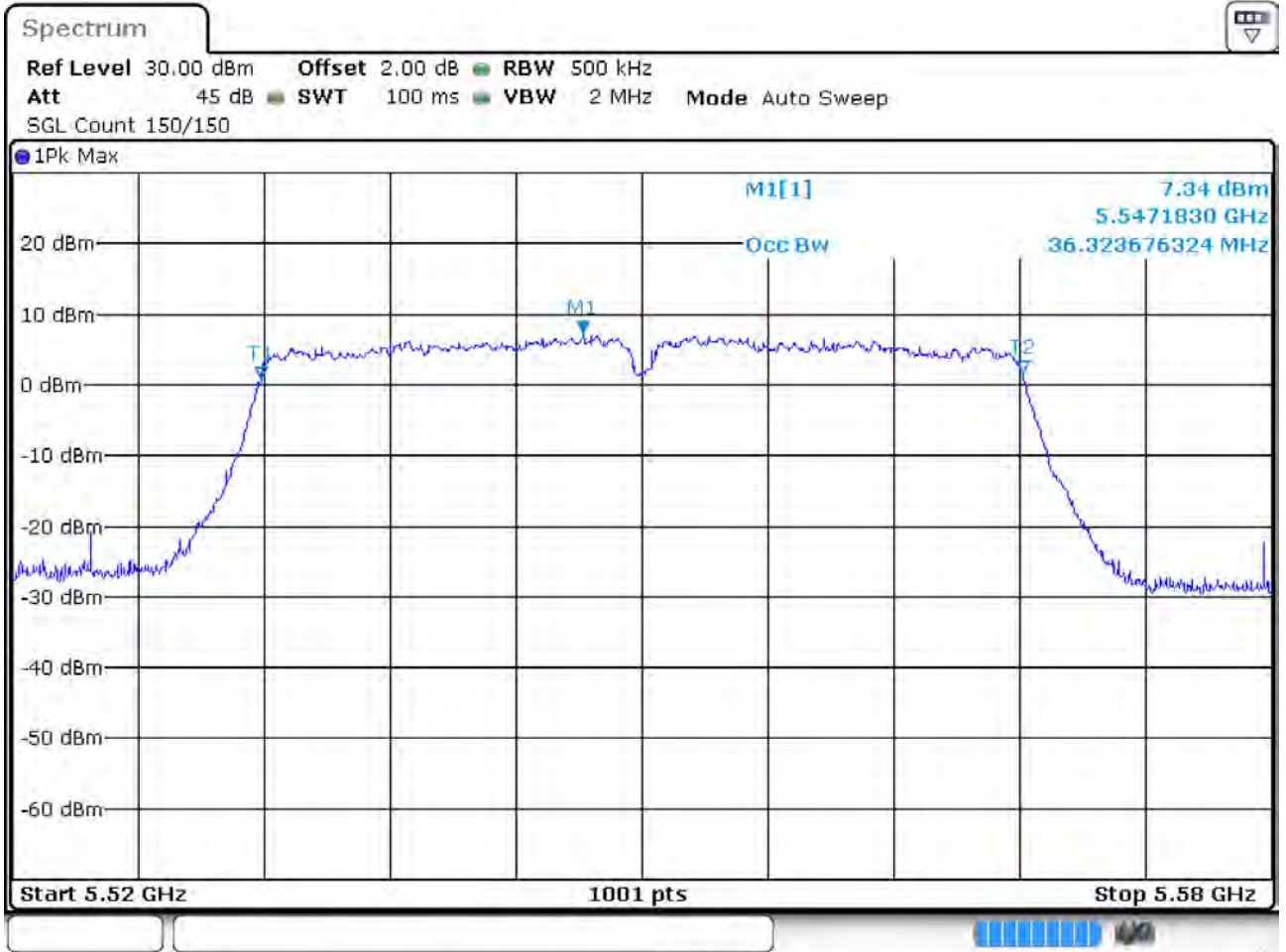


Date: 11.SEP.2020 18:03:03



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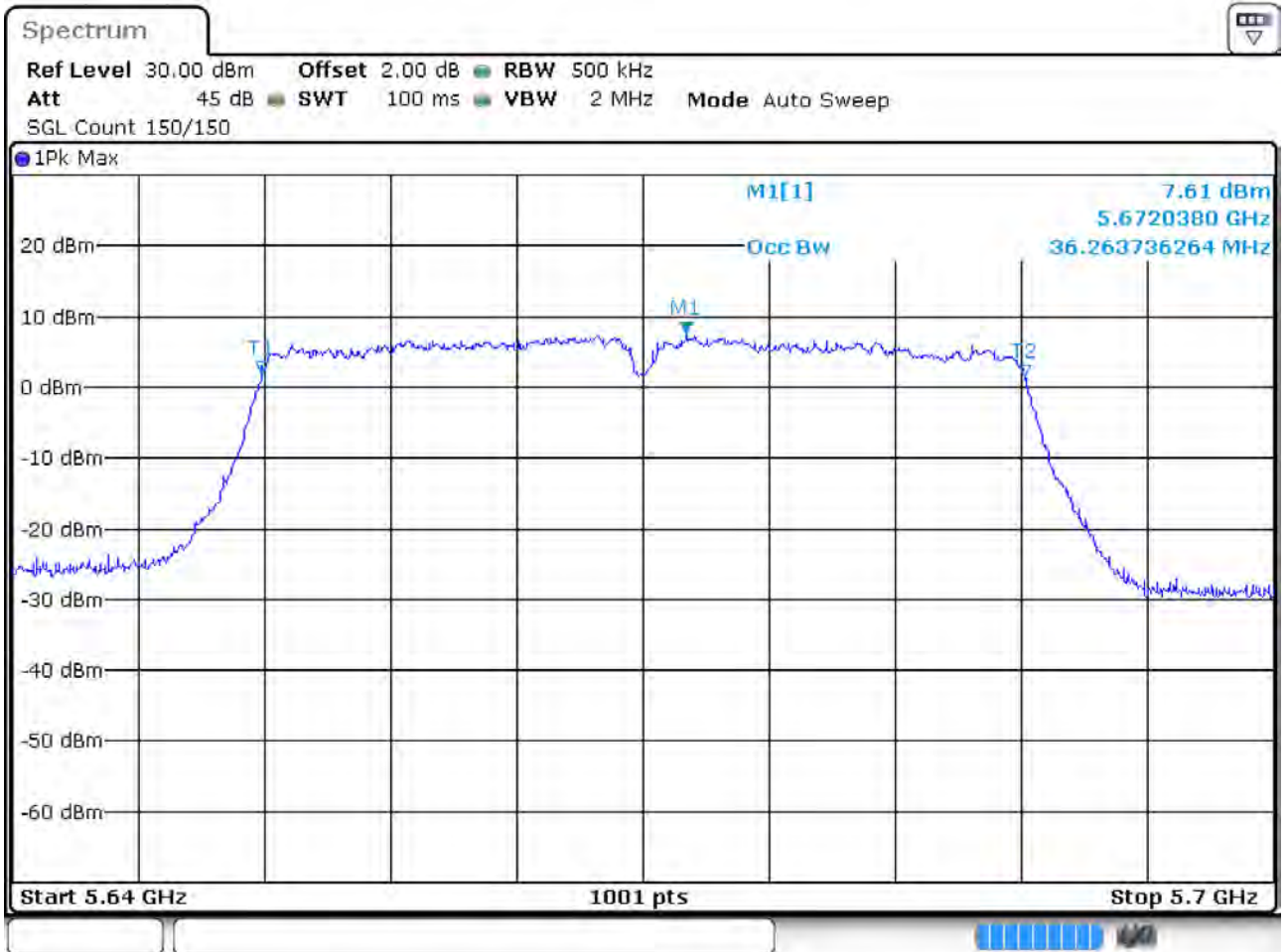
**4.7.2.51 11AC40\_110 ANT 1**



Date: 11.SEP.2020 18:05:02



**4.7.2.52 11AC40\_134 ANT 1**



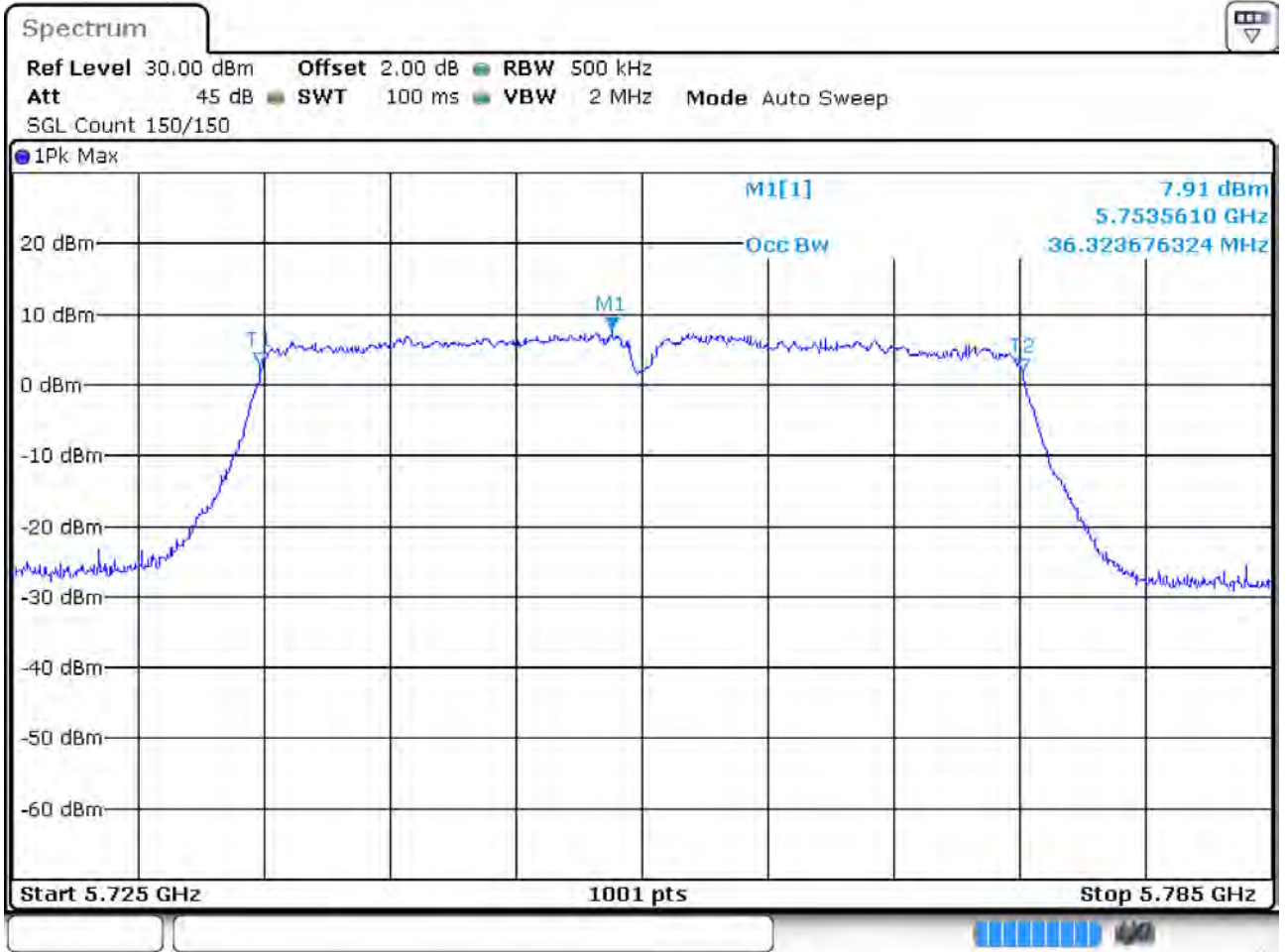
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**4.7.2.53 11AC40\_151 ANT 1**

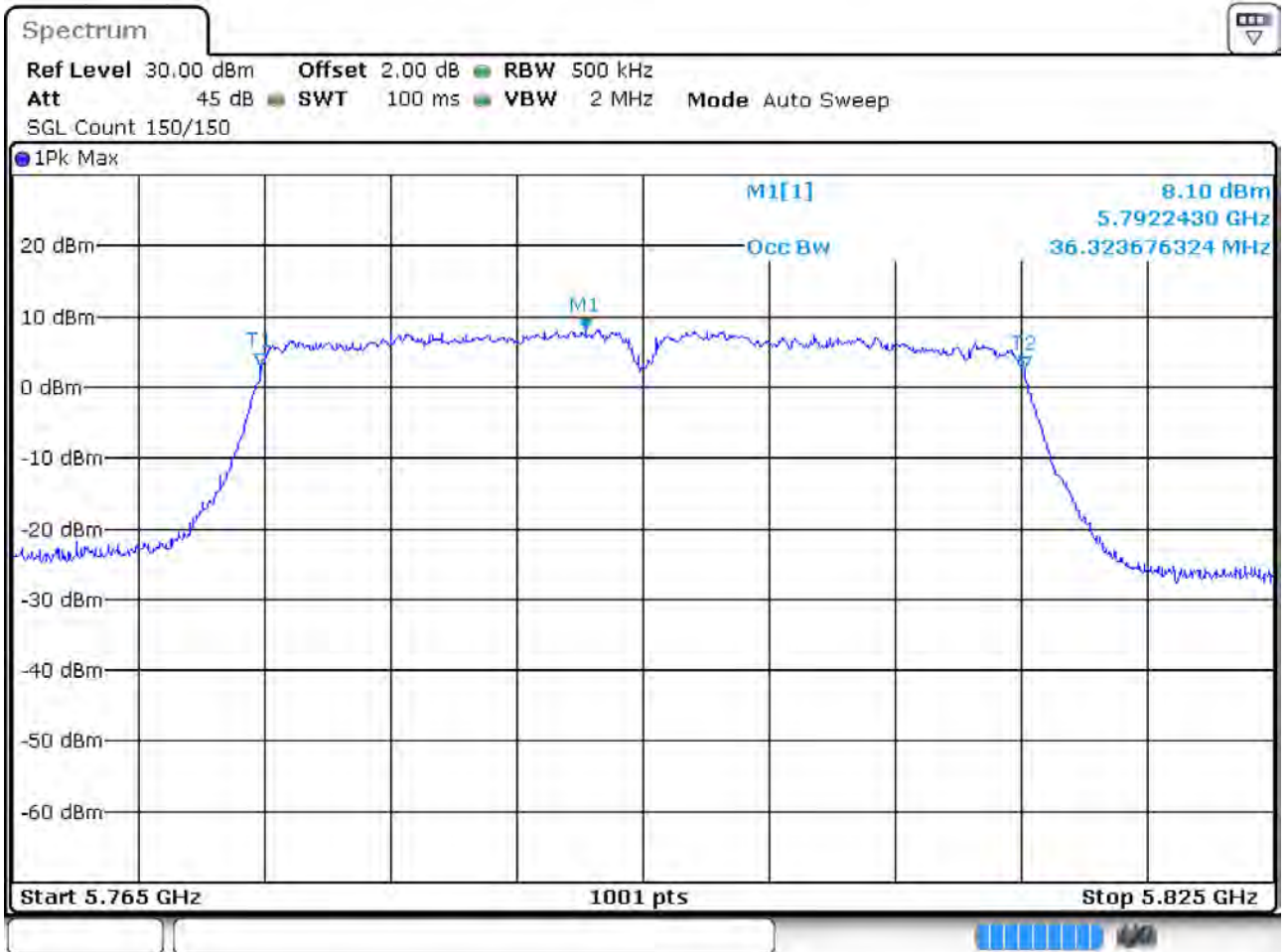


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**4.7.2.54 11AC40\_159 ANT 1**

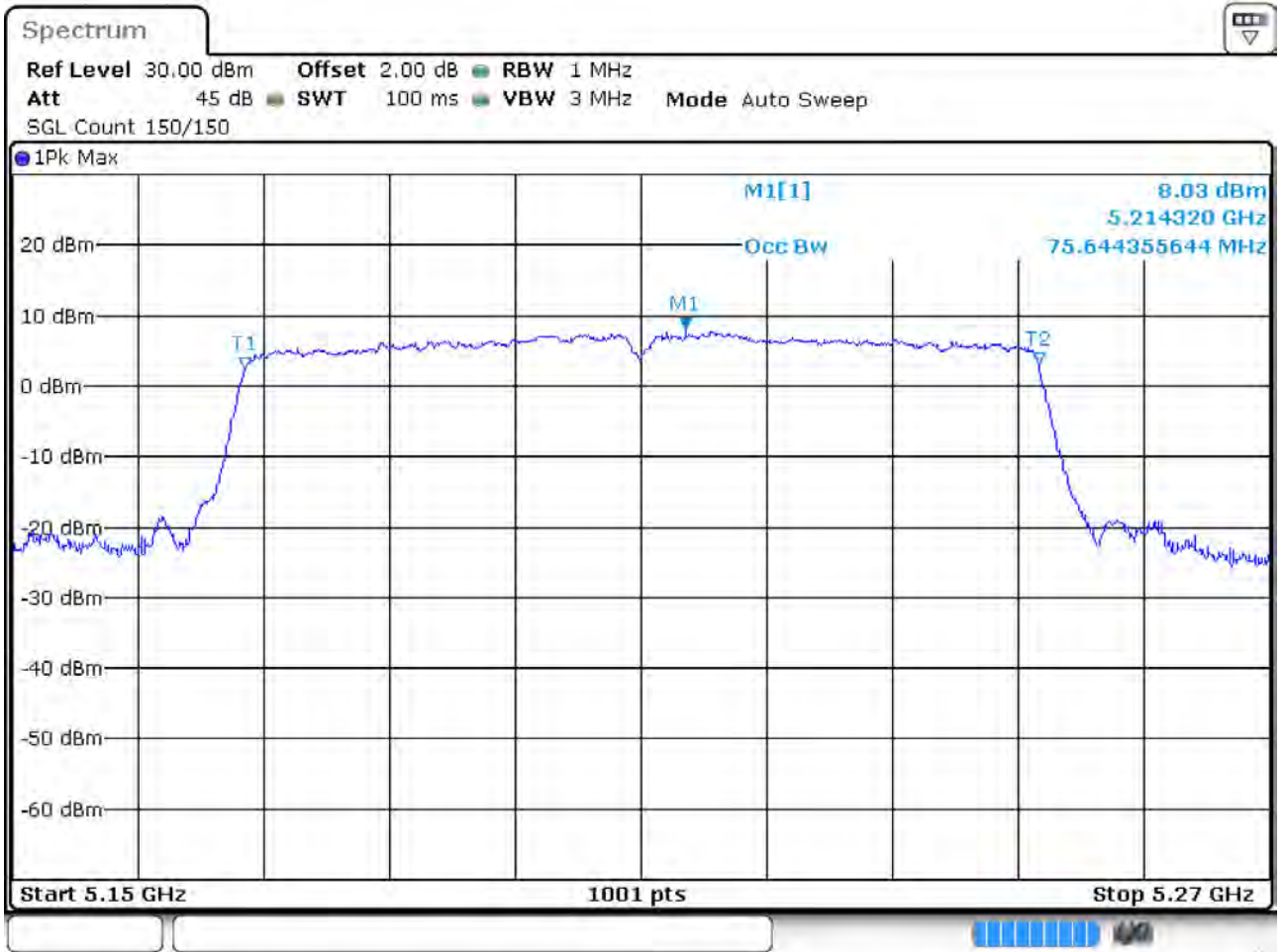


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**4.7.2.55 11AC80\_42 ANT 1**

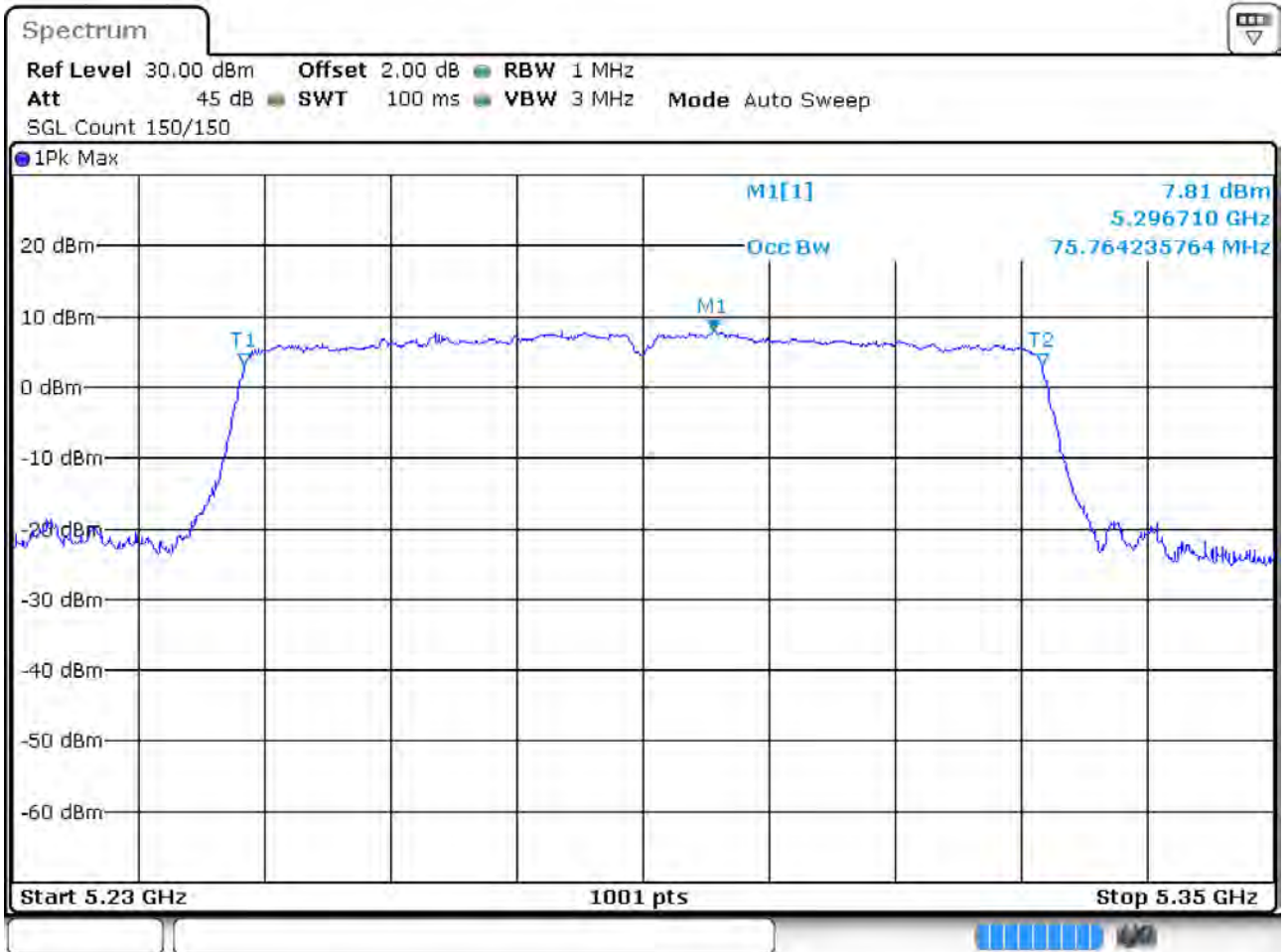


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**4.7.2.56 11AC80\_58 ANT 1**

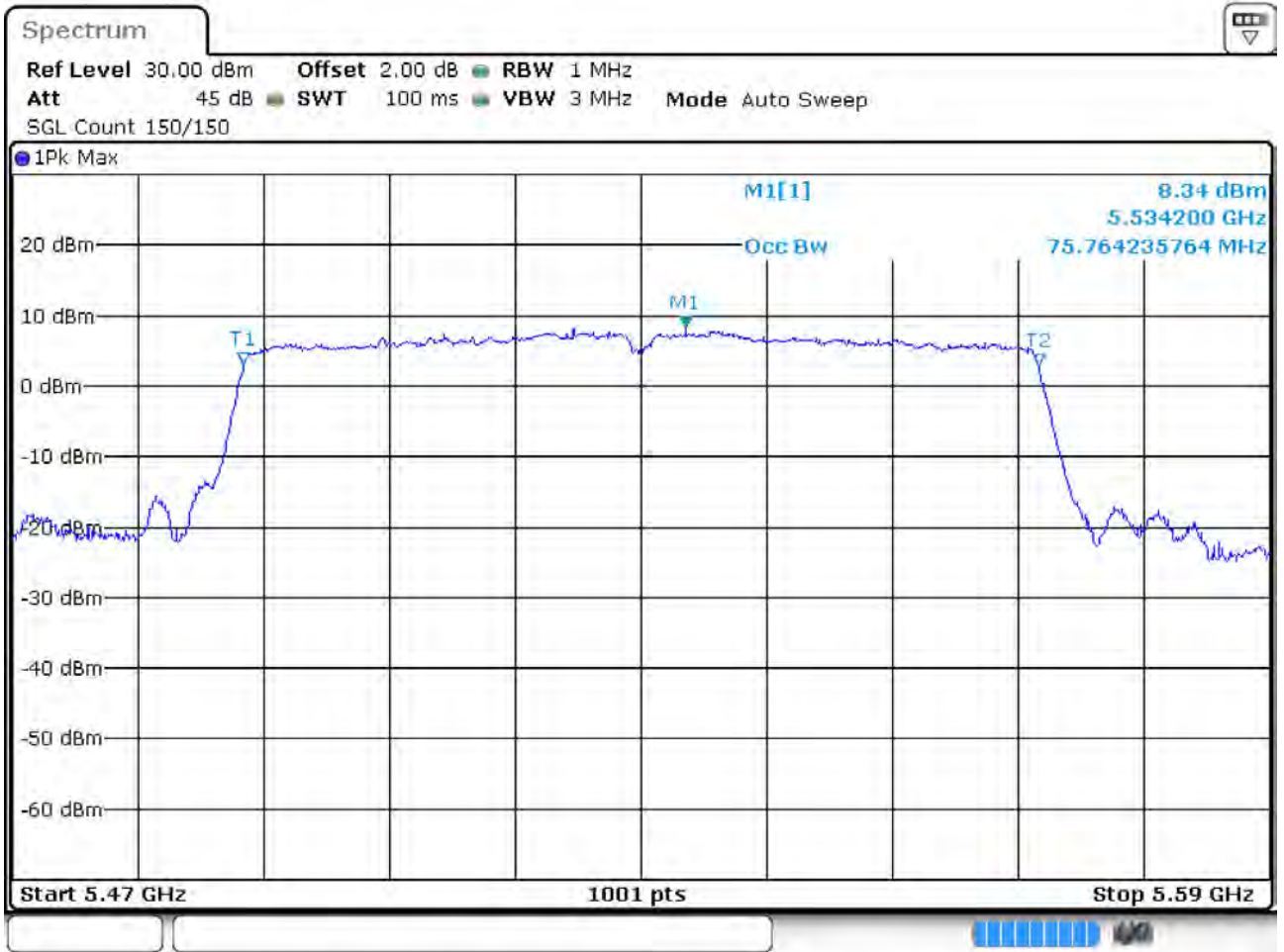


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**4.7.2.57 11AC80\_106 ANT 1**

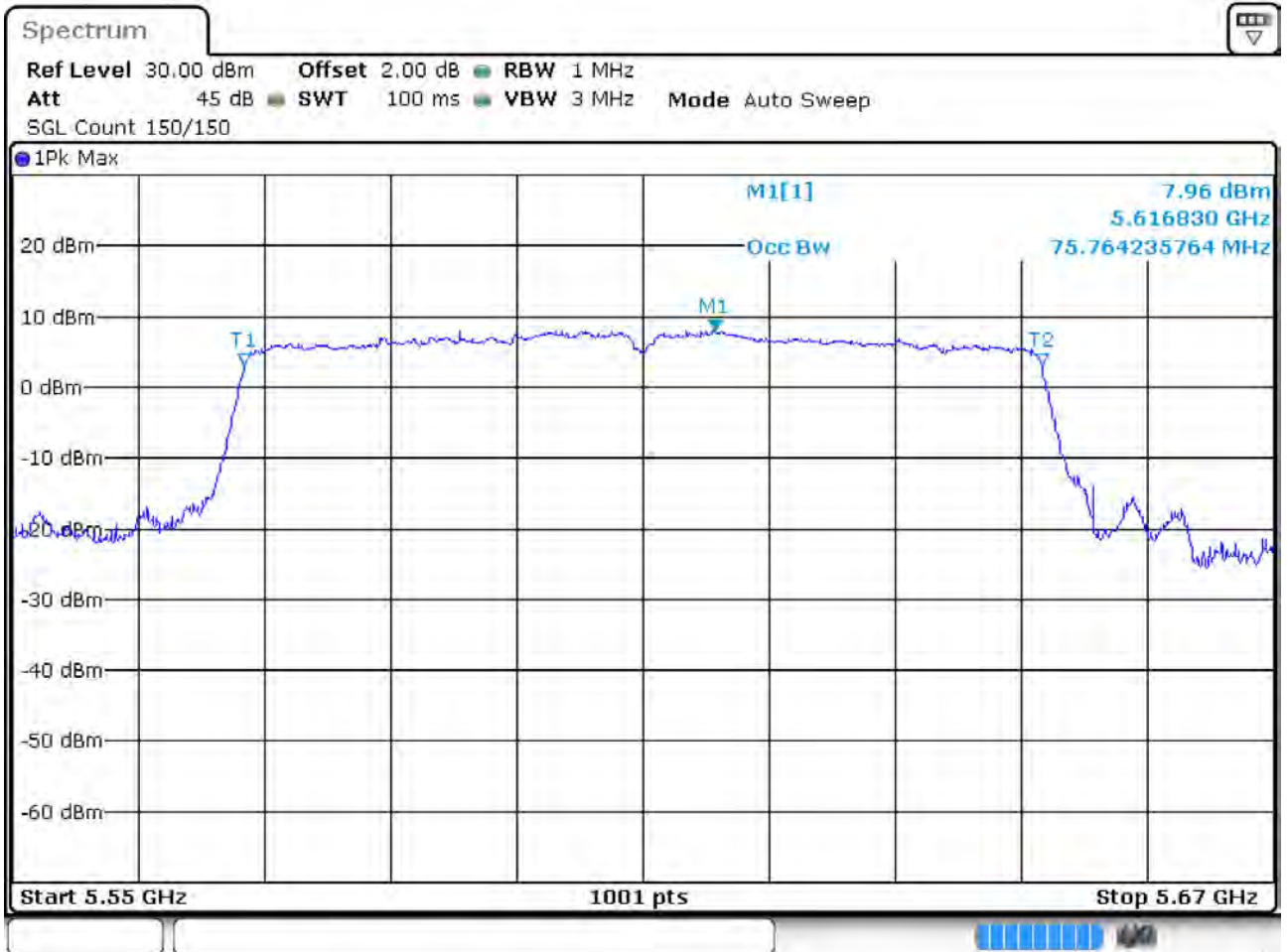


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4.7.2.58 11AC80\_122 ANT 1



Date: 11.SEP.2020 19:50:10

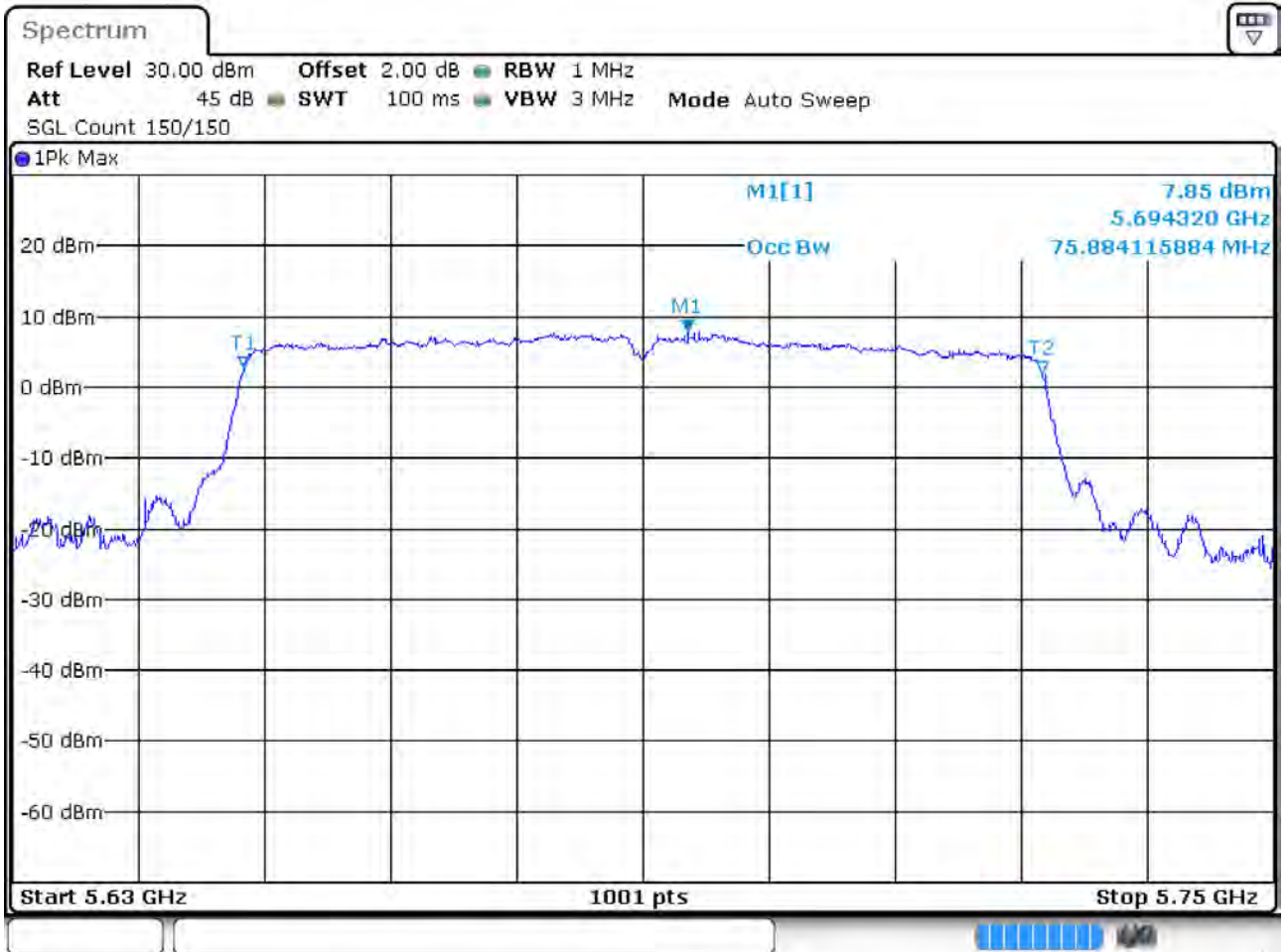


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4.7.2.59 11AC80\_138 ANT 1



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