



## FCC TEST REPORT

**Application No:** ZR/2020/30010  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Mobile Phone  
**Model No.:** M2004J11G  
**Trade Mark:** POCO  
**FCC ID:** 2AFZZJ11G  
**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  
 KDB 662911 D01 Multiple Transmitter Output v02r01  
**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:** 2020/3/12  
**Date of Test:** 2020/3/13 to 2020/4/27  
**Date of Issue:** 2020/4/27

<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
00		2020/4/27		Original

<b>Authorized for issue by:</b>			
<b>Tested By</b>			2020/4/27
	<hr/>		<hr/>
	<b>(Mike Hu) /Project Engineer</b>		<b>Date</b>
<b>Checked By</b>			2020/4/27
	<hr/>		<hr/>
	<b>(David Chen) /Reviewer</b>		<b>Date</b>



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## 2 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.5 Clause 4.6	Pass
	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.		Pass
	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
	5250-5350	15.407(a)(2) 15.407(a)(4)	<MIN{250mW,11dBm+10*Ig(EB W)} (avg during transmission)		
	5470-5725	15.407(a)(2) 15.407(a)(4)	<MIN{250mW,11dBm+10*Ig(EB W)} (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	
	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
	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).		
	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7)	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted:		



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
		15.209	<-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
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	---	Clause 4.2	Pass
Frequency Stability	5150-5250 5250-5350 5470-5600 5650-5725 5725-5850	15.209	---	Clause 4.11	Pass
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.12	Pass
			Transmission Time: milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.		
			Non-occupancy period: Minimum 30 minutes		



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### 3 General Information

#### 3.1 Client Information

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 3.2 Test Location

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
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com

#### 3.3 Test Facility

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

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **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.

• **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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### 3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	M2004J11G
Trade Mark:	POCO
Hardware Version:	P2
Software Version:	MIUI11
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) ; <input checked="" type="checkbox"/> 802.11ax (20 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ax (40 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ax(80 MHz channel bandwidth) ;
Operation Frequency:	IEEE 802.11a/n(HT20/40)/ac(HT20/40/80)/ax(HT20/40/80): 5150MHz to 5250MHz IEEE 802.11a/n(HT20/40)/ac(HT20/40/80)/ax(HT20/40/80): 5250MHz to 5350MHz IEEE 802.11a/n(HT20/40)/ac(HT20/40/80)/ax(HT20/40/80): 5470MHz to 5725MHz IEEE 802.11a/n(HT20/40)/ac(HT20/40/80)/ax(HT20/40/80): 5725MHz to 5825MHz
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:	PIFA Antenna
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input checked="" type="checkbox"/> Ant 2
Smart System	<input type="checkbox"/> SISO (for 802.11a/n/ac), <input checked="" type="checkbox"/> MIMO (for 802.11n/ac), <input type="checkbox"/> Diversity (for 802.11a) : Tx & Rx
Antenna Gain:	Ant1: -2.06dBi; Ant2: -1.43dBi
Power Supply	<input type="checkbox"/> AC/DC Adapter; <input checked="" type="checkbox"/> Battery; <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



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For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac/ax 80MHz	The Middle channel	5210

For UNII Band II-A:

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

For UNII Band II-C:

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

For UNII Band III:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5805



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IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac/ax 80MHz	The Middle channel	5775

### 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

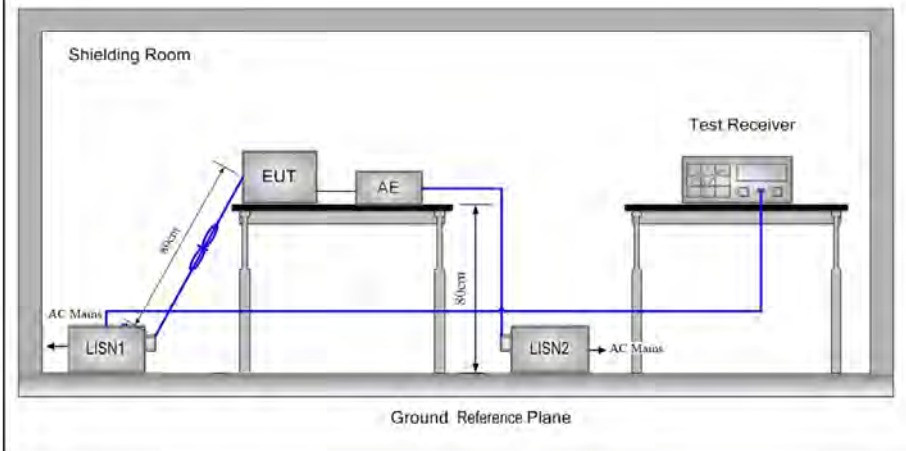
### 4.1 Antenna Requirement

<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 -0.47dBi.	

### 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**

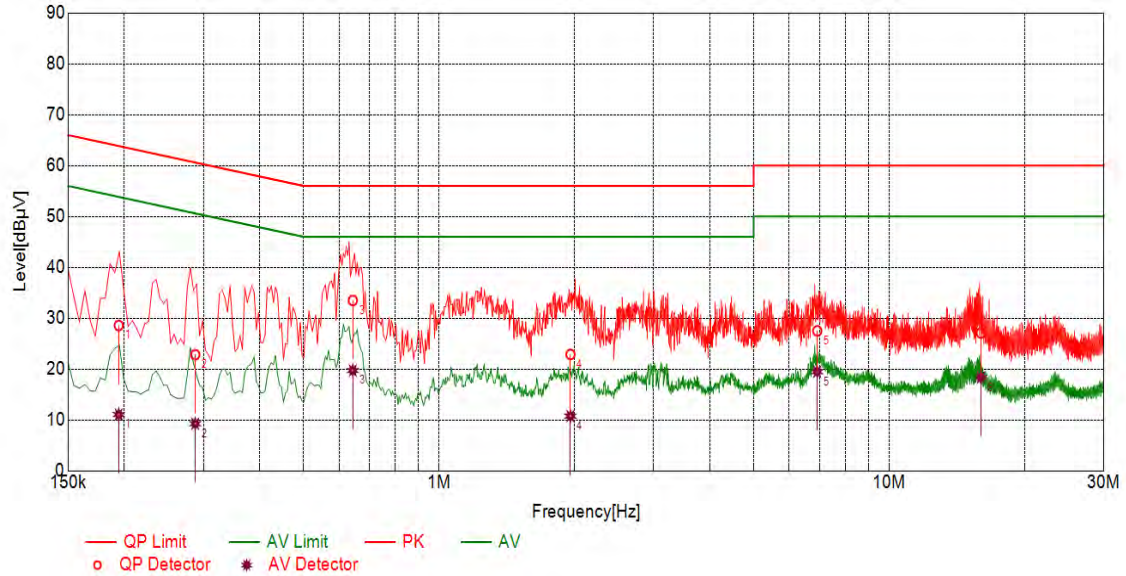
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.





Live Line:



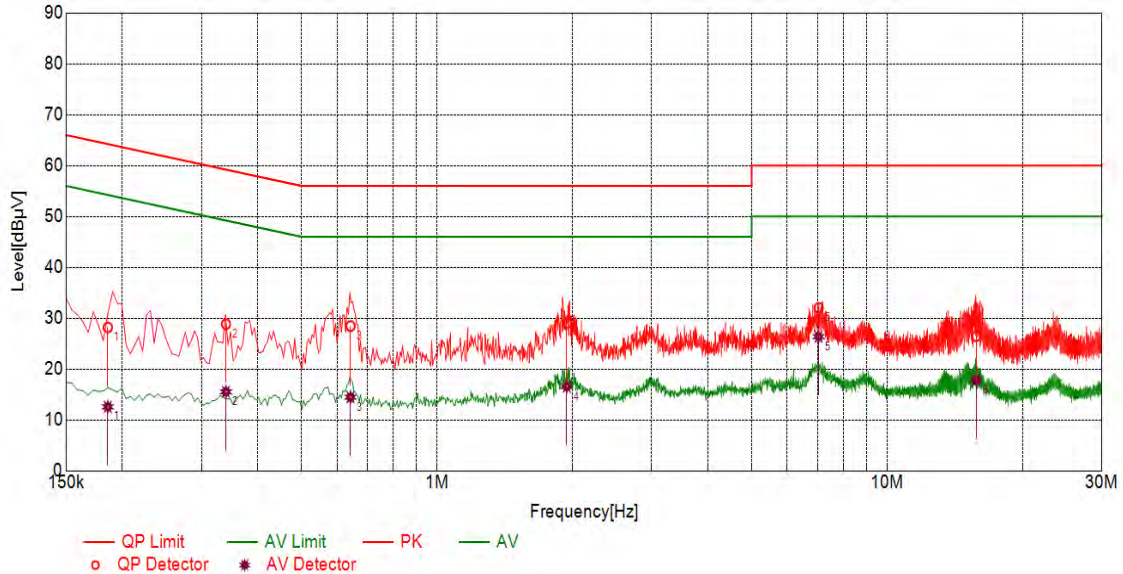
Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1944	10.10	28.58	63.85	35.27	11.07	53.85	42.78	L
2	0.2875	10.10	22.83	60.60	37.77	9.25	50.60	41.35	L
3	0.6437	10.10	33.48	56.00	22.52	19.71	46.00	26.29	L
4	1.9597	10.10	22.87	56.00	33.13	10.75	46.00	35.25	L
5	6.9240	10.10	27.51	60.00	32.49	19.48	50.00	30.52	L
6	15.9910	10.11	27.09	60.00	32.91	18.33	50.00	31.67	L



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Neutral Line:



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	0.1857	10.10	28.18	64.22	36.04	12.57	54.22	41.65	N
2	0.3399	10.10	28.85	59.21	30.36	15.52	49.21	33.69	N
3	0.6428	10.10	28.46	56.00	27.54	14.47	46.00	31.53	N
4	1.9435	10.10	29.01	56.00	26.99	16.56	46.00	29.44	N
5	7.0448	10.10	32.04	60.00	27.96	26.38	50.00	23.62	N
6	15.7742	10.11	26.48	60.00	33.52	17.82	50.00	32.18	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 [%]	
		Ant1	Ant2
11A_CDD	CH36	98.58	99.45
11N20MIMO	CH36	98.42	99.11
11N40MIMO	CH38	98.76	98.48
11AC20MIMO	CH36	98.35	99.05
11AC40MIMO	CH38	99.28	99.43
11AC80MIMO	CH42	98.59	98.12
11AX20MIMO_26T	CH36	98.78	98.61
11AX20MIMO_52T	CH36	98.93	99.27
11AX20MIMO_106T	CH36	98.86	98.83
11AX20MIMO_242T	CH36	98.76	98.07
11AX40MIMO_242T	CH38	98.53	98.91
11AX40MIMO_484T	CH38	99.28	99.50
11AX80MIMO_484T	CH42	98.59	98.21
11AX80MIMO_996T	CH42	98.71	98.61



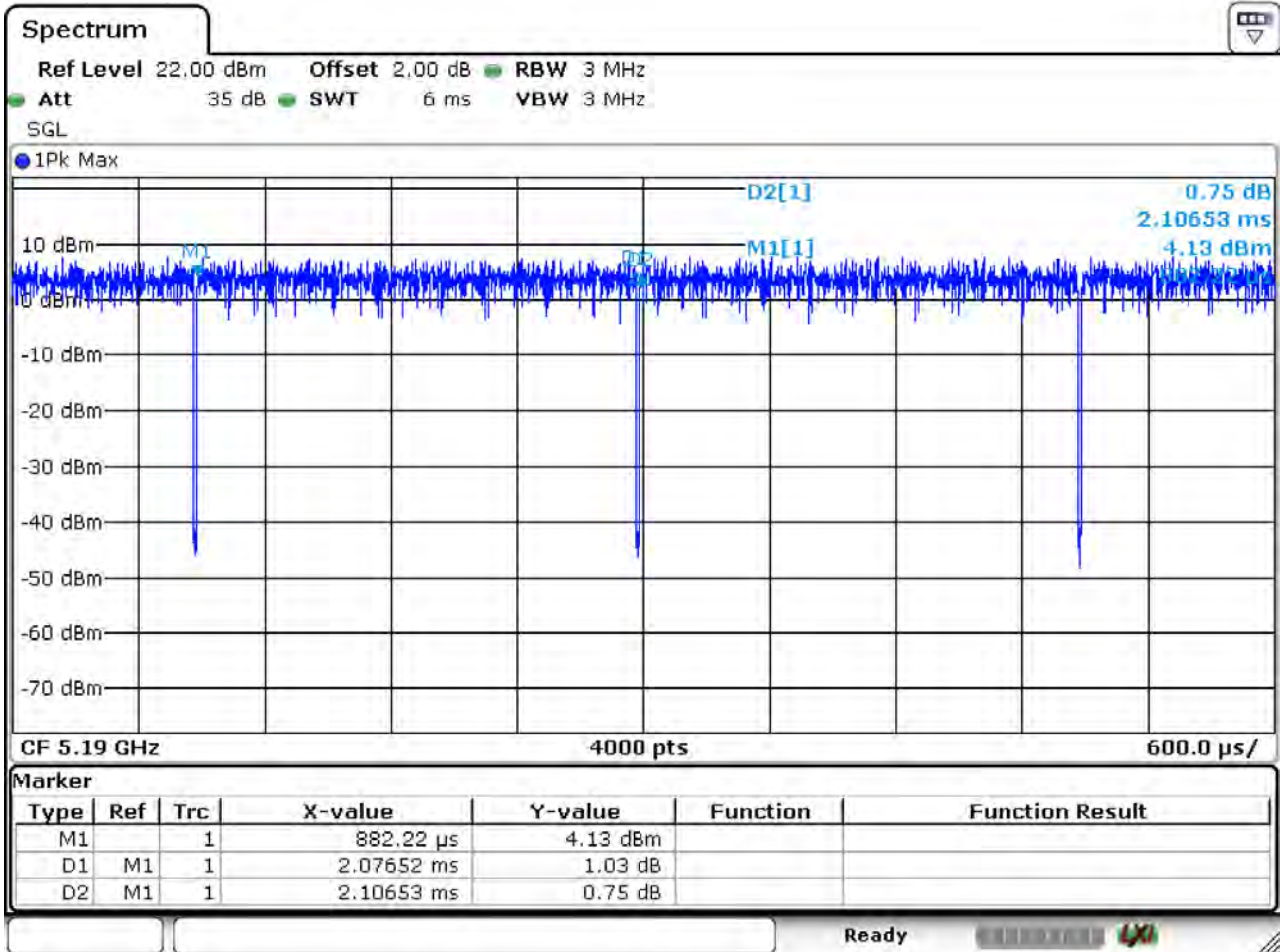
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4.3.1 Test Plots

4.3.1.1 ANT1

4.3.1.1.1 11A\_CDD



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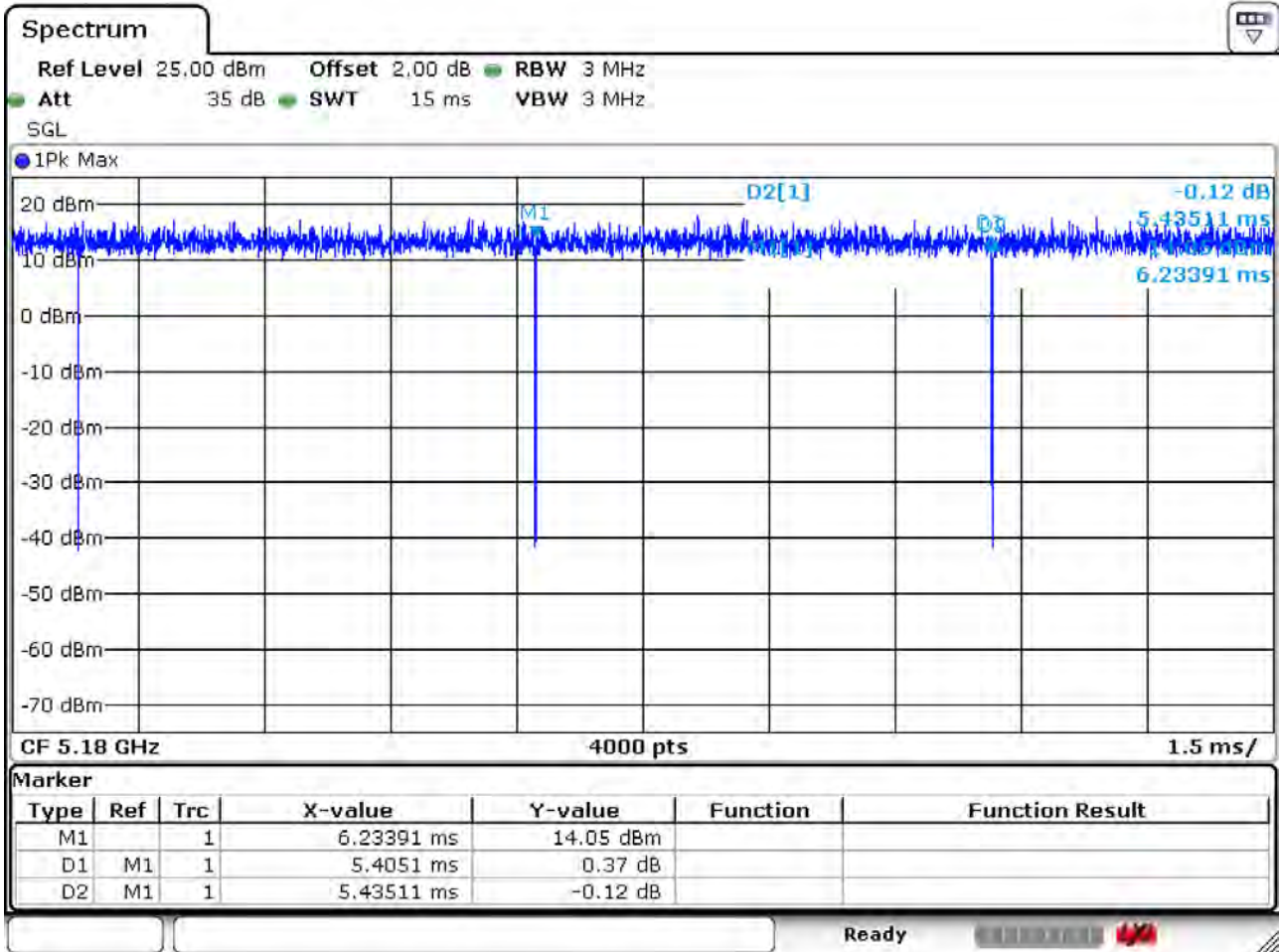
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4.3.1.1.2 11N20MIMO



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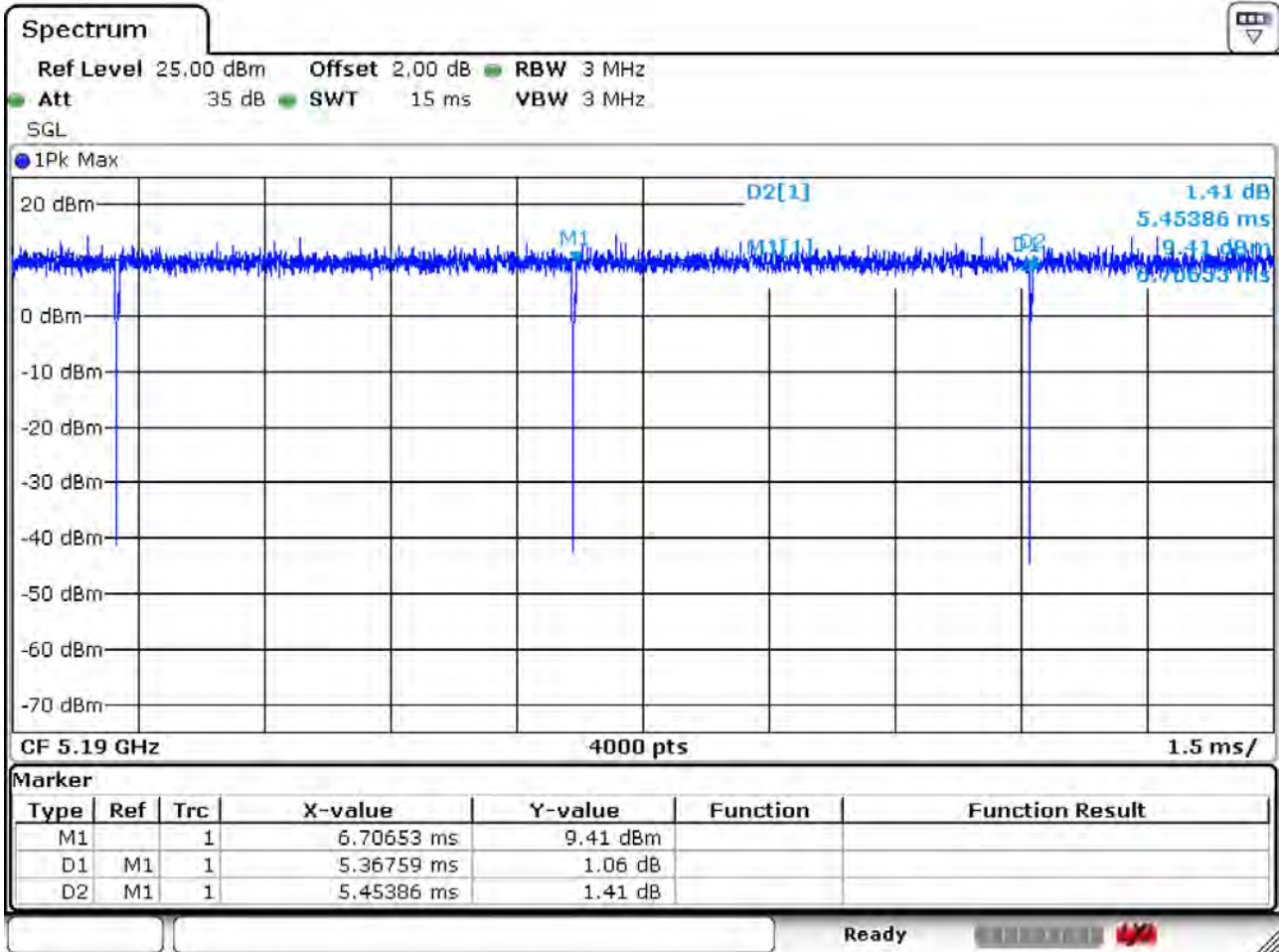
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4.3.1.1.3 11N40MIMO

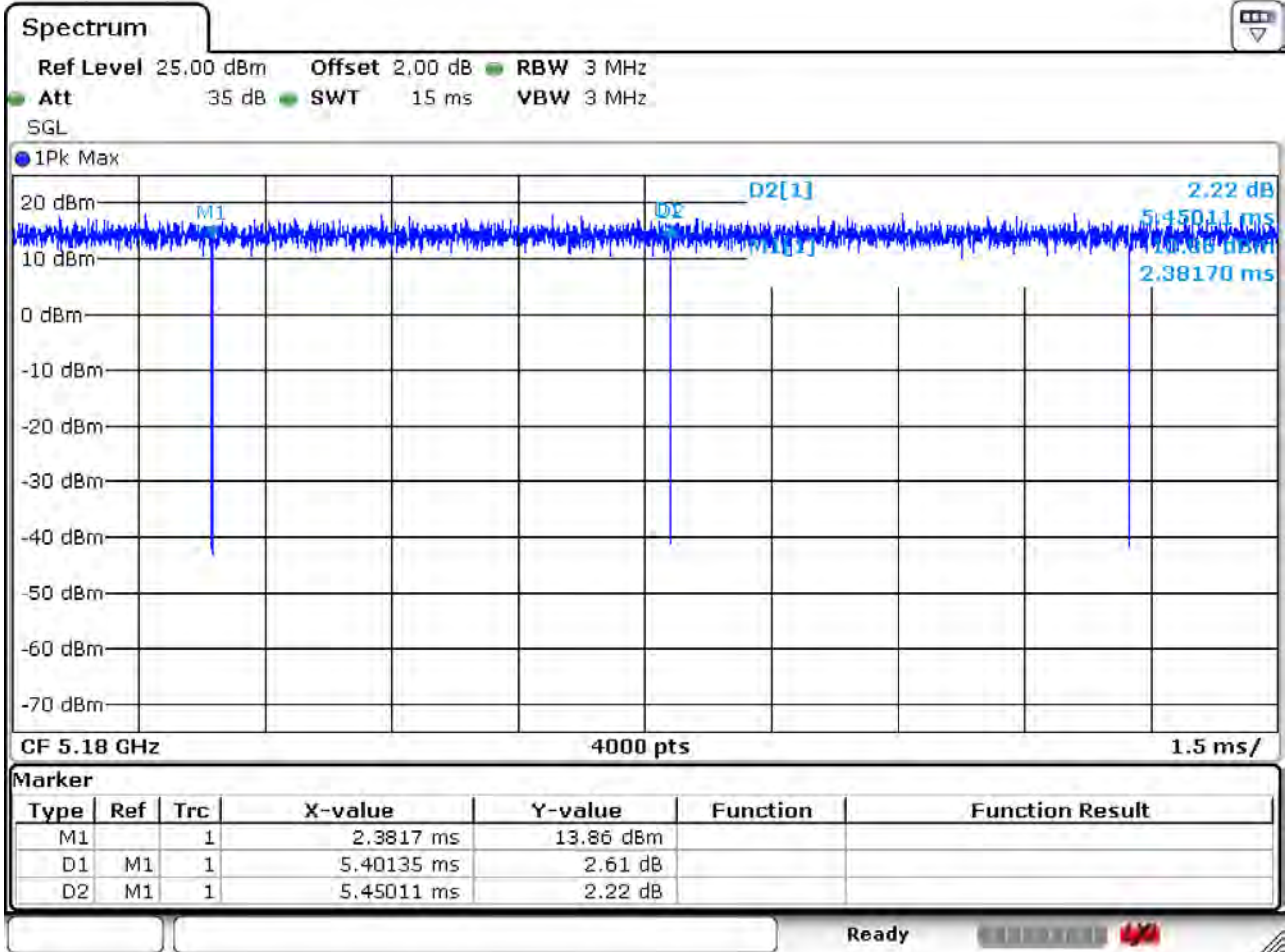


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4.3.1.1.4 11AC20MIMO



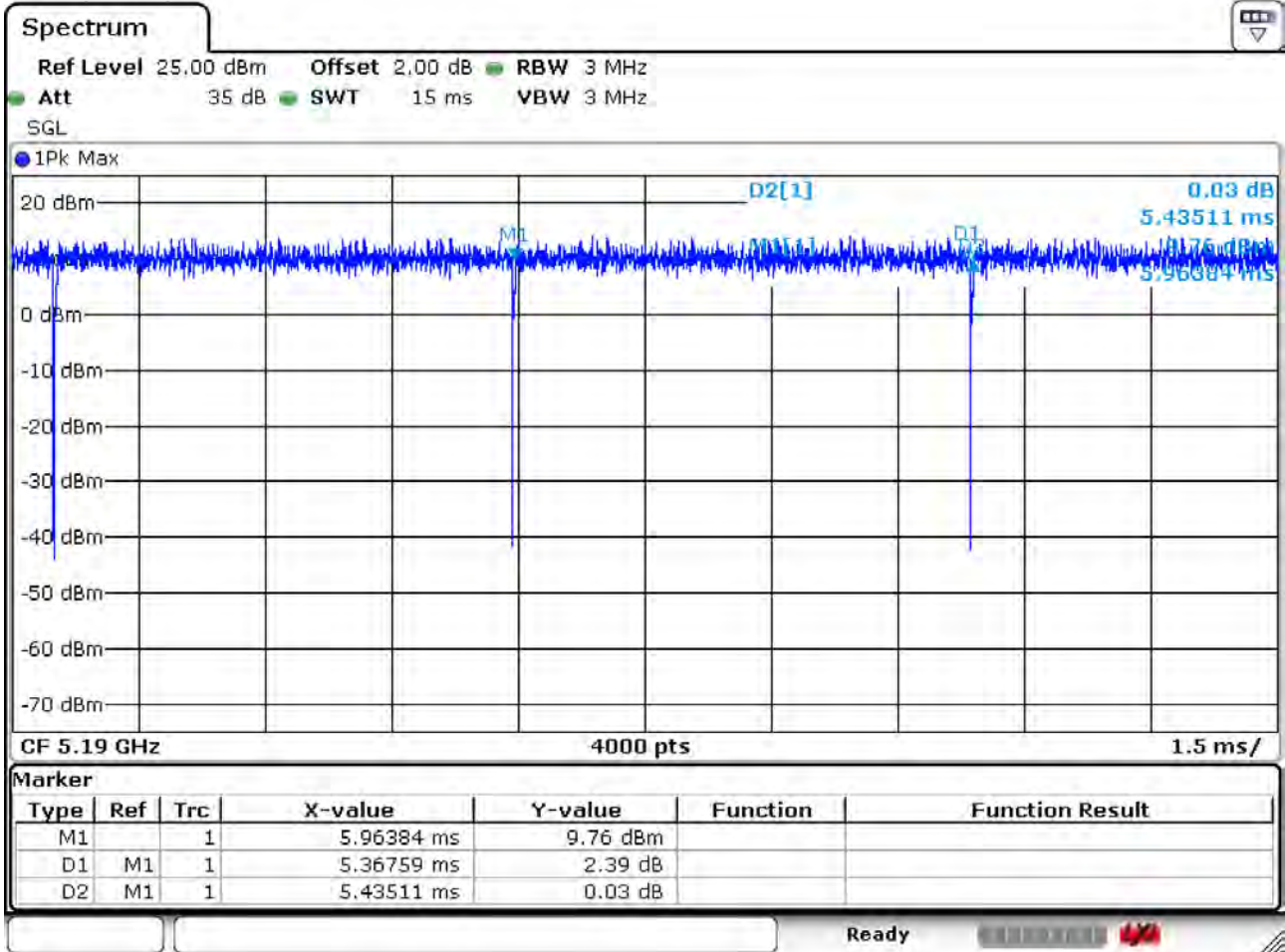
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4.3.1.1.5 11AC40MIMO



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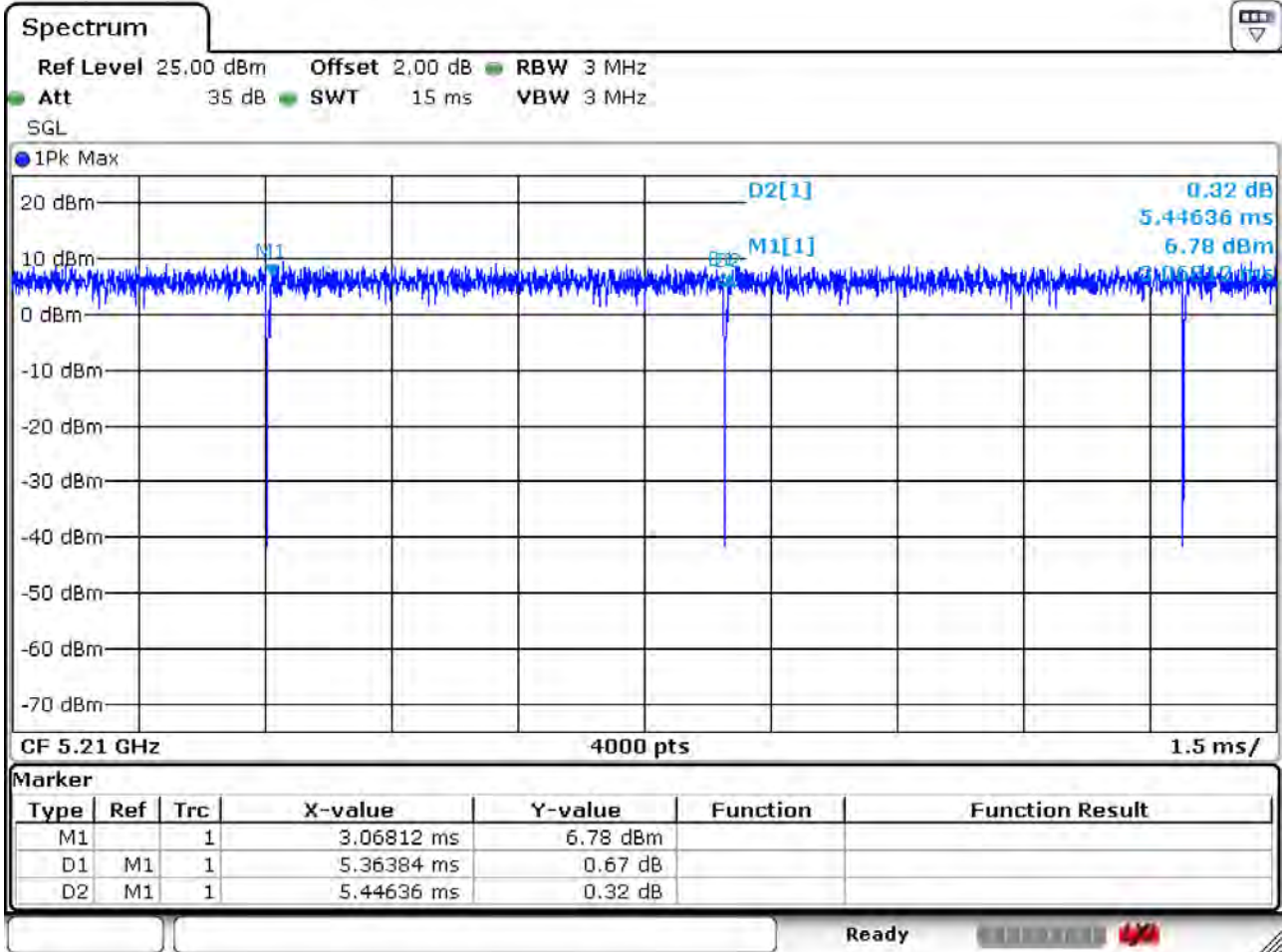
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4.3.1.1.6 11AC80MIMO

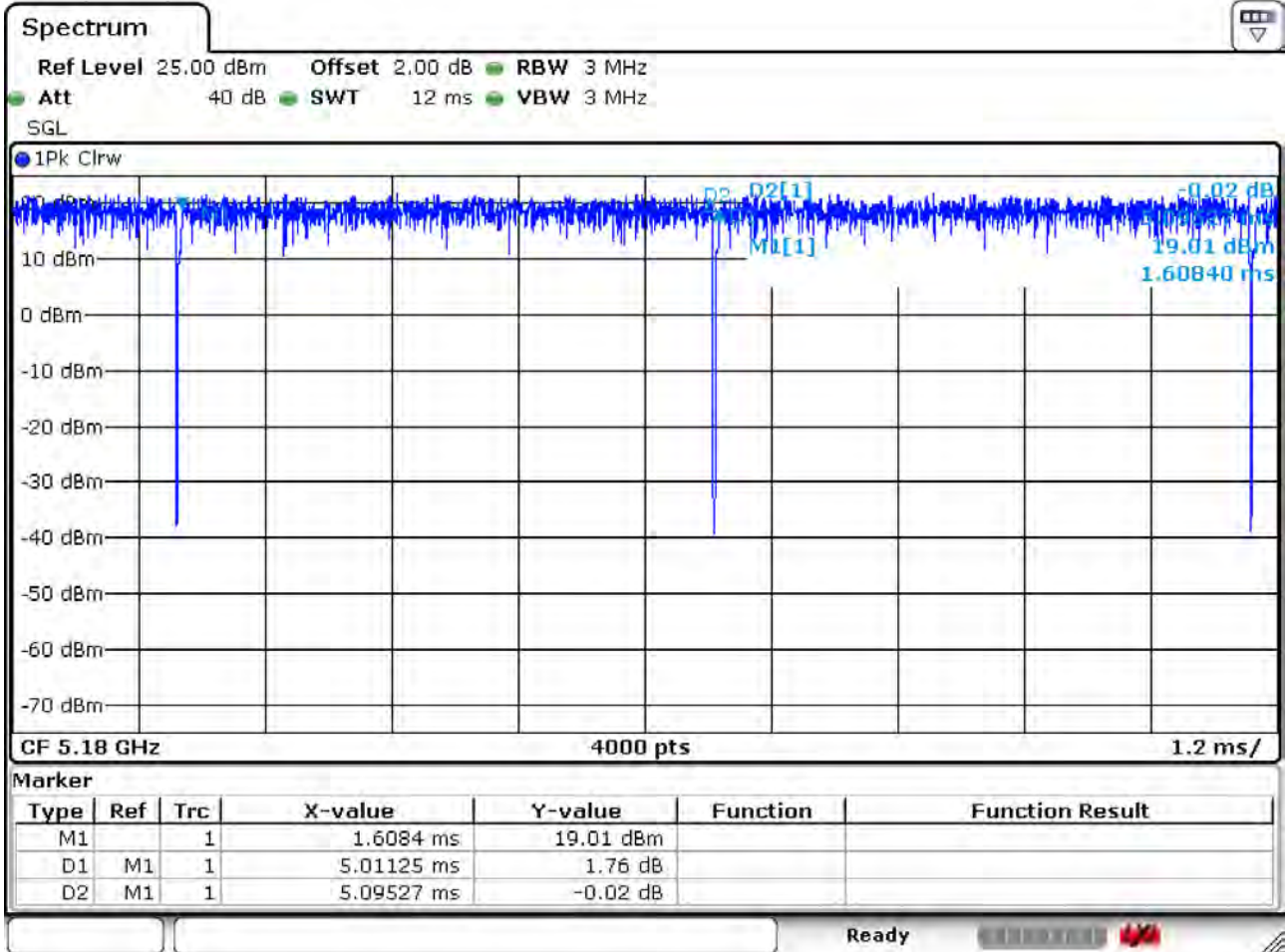


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4.3.1.1.7 11AX20MIMO\_26T



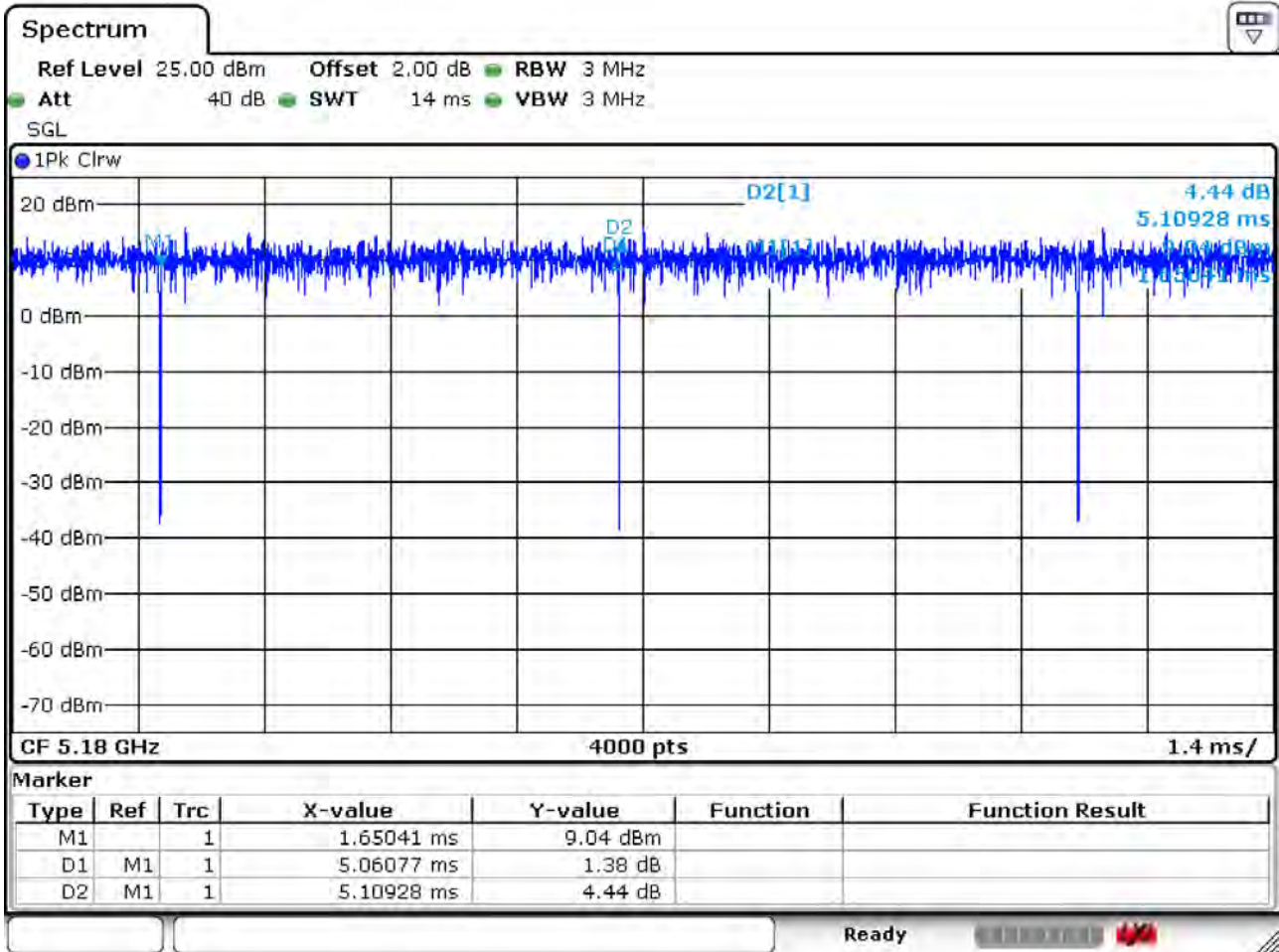
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4.3.1.1.8 11AX20MIMO\_52T

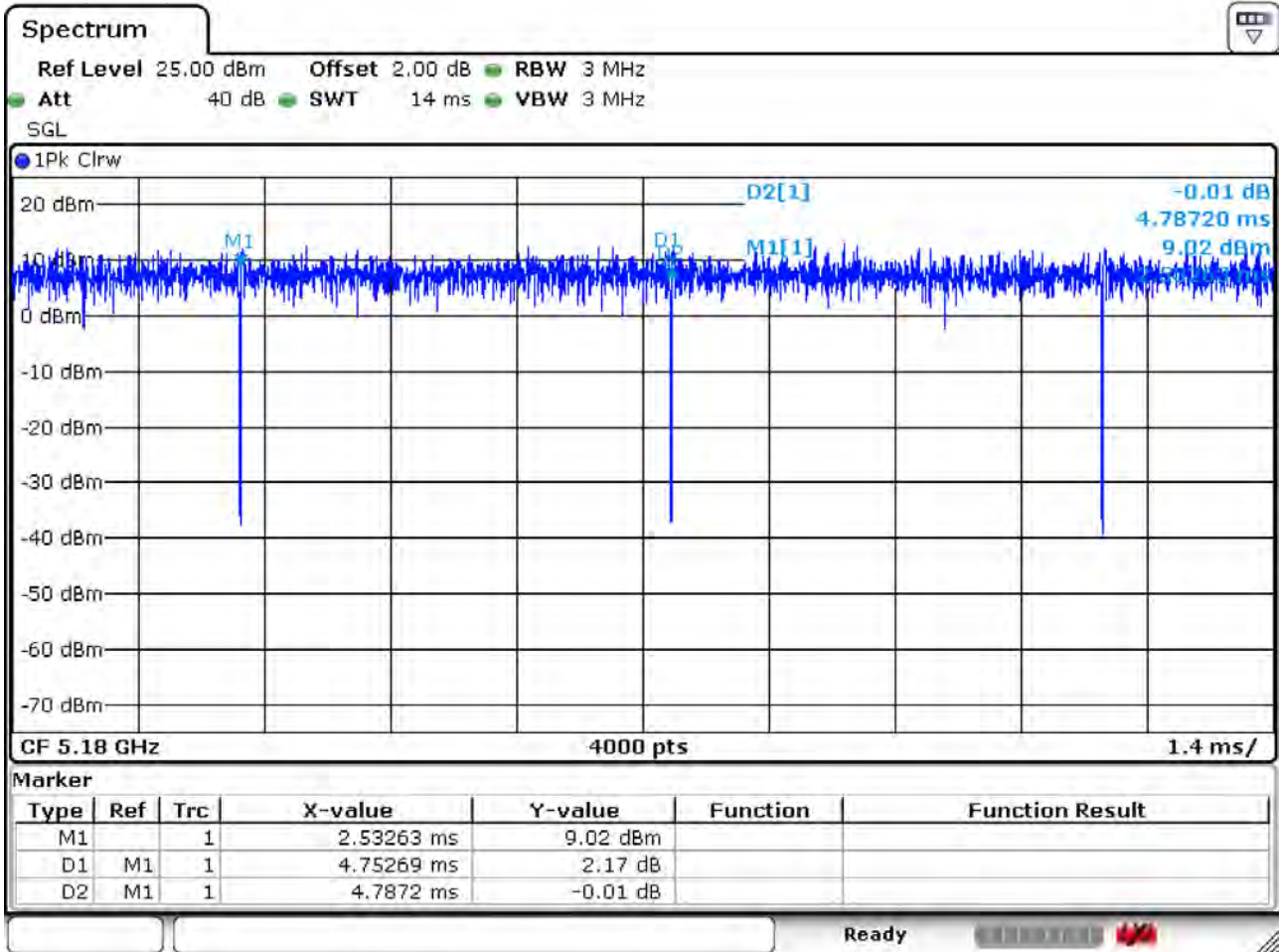


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4.3.1.1.9 11AX20MIMO\_106T



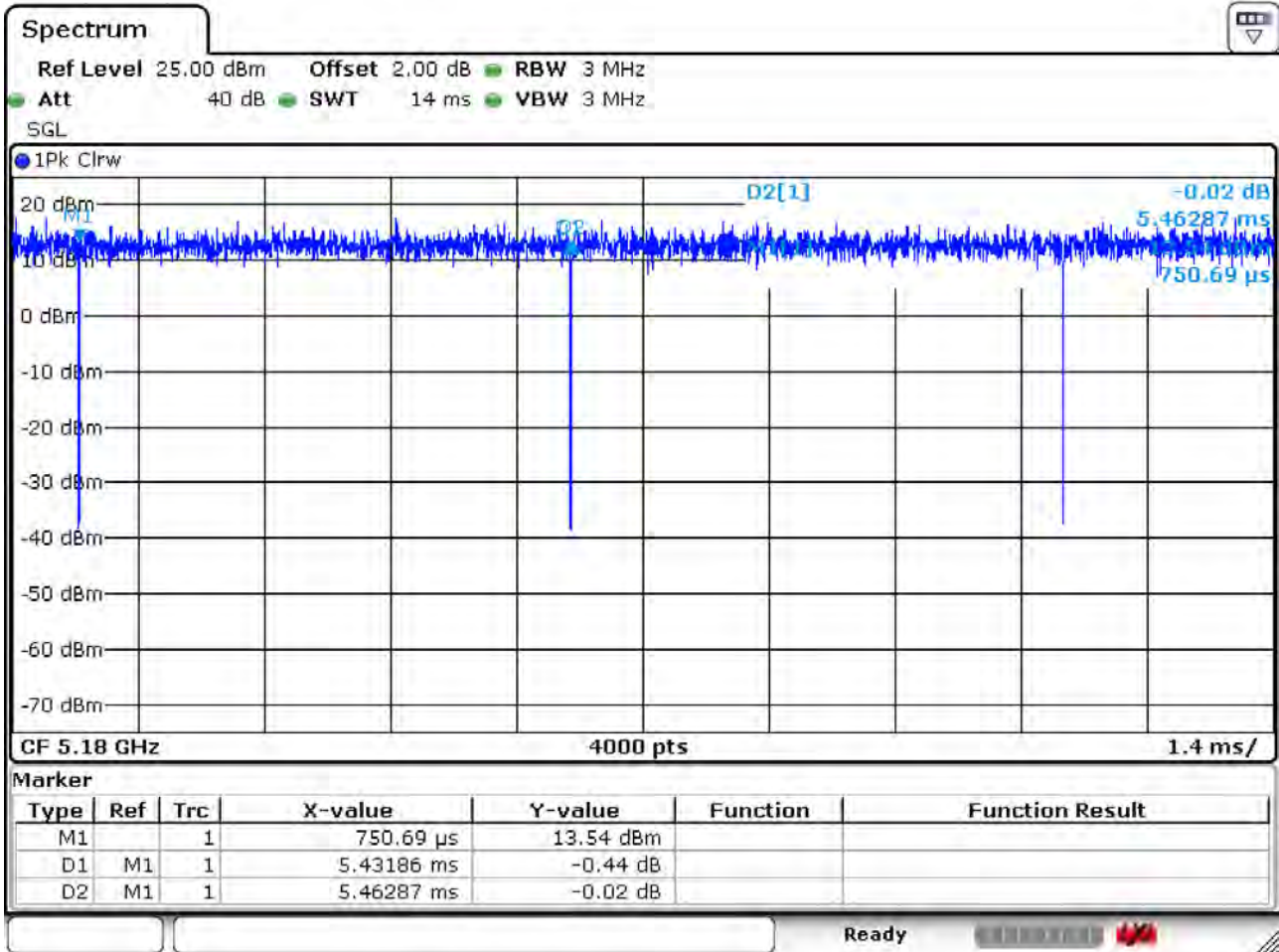
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4.3.1.1.10 11AX20MIMO\_242T



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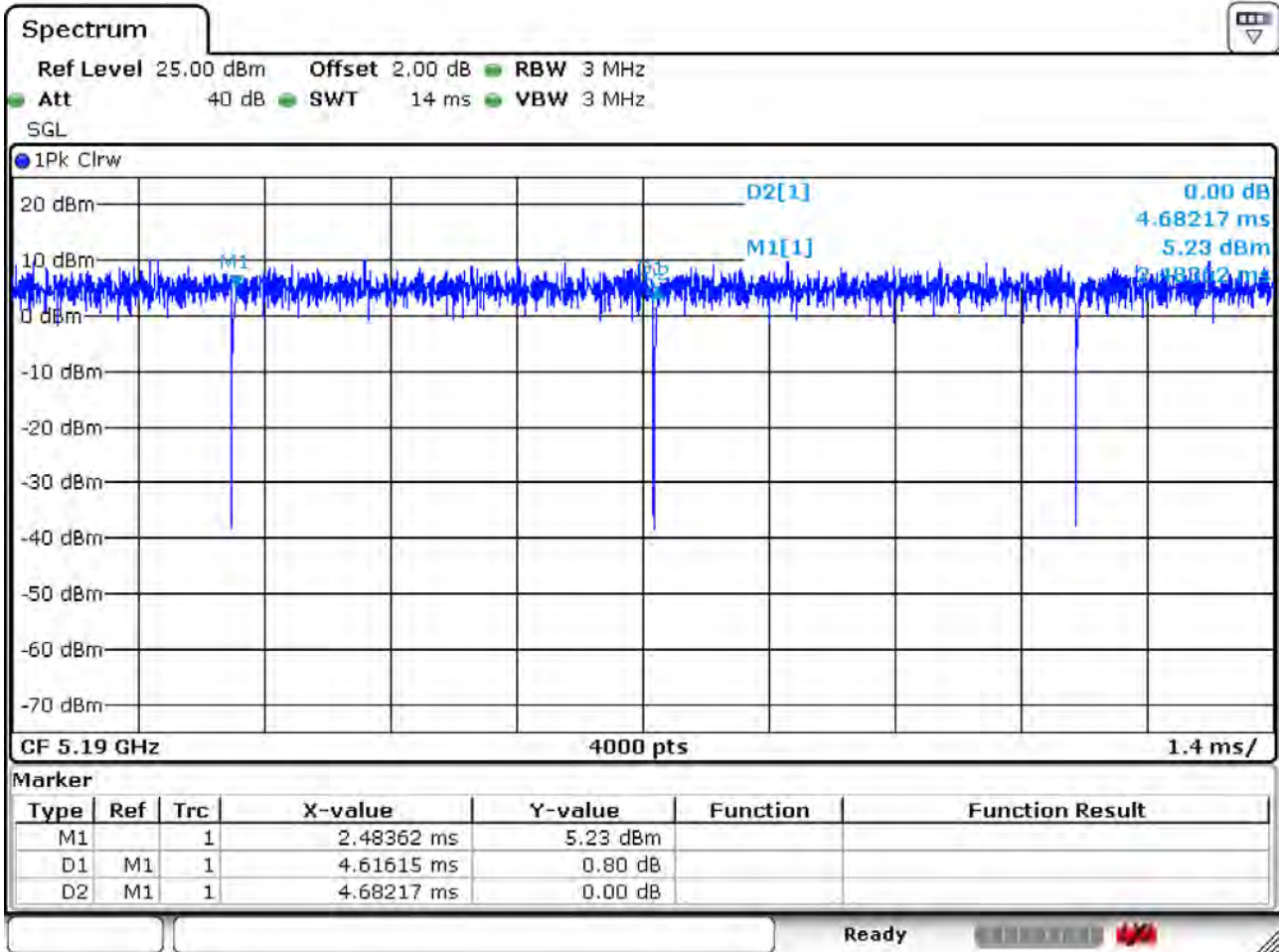
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4.3.1.1.11 11AX40MIMO\_242T



Date: 10.APR.2020 07:11:39



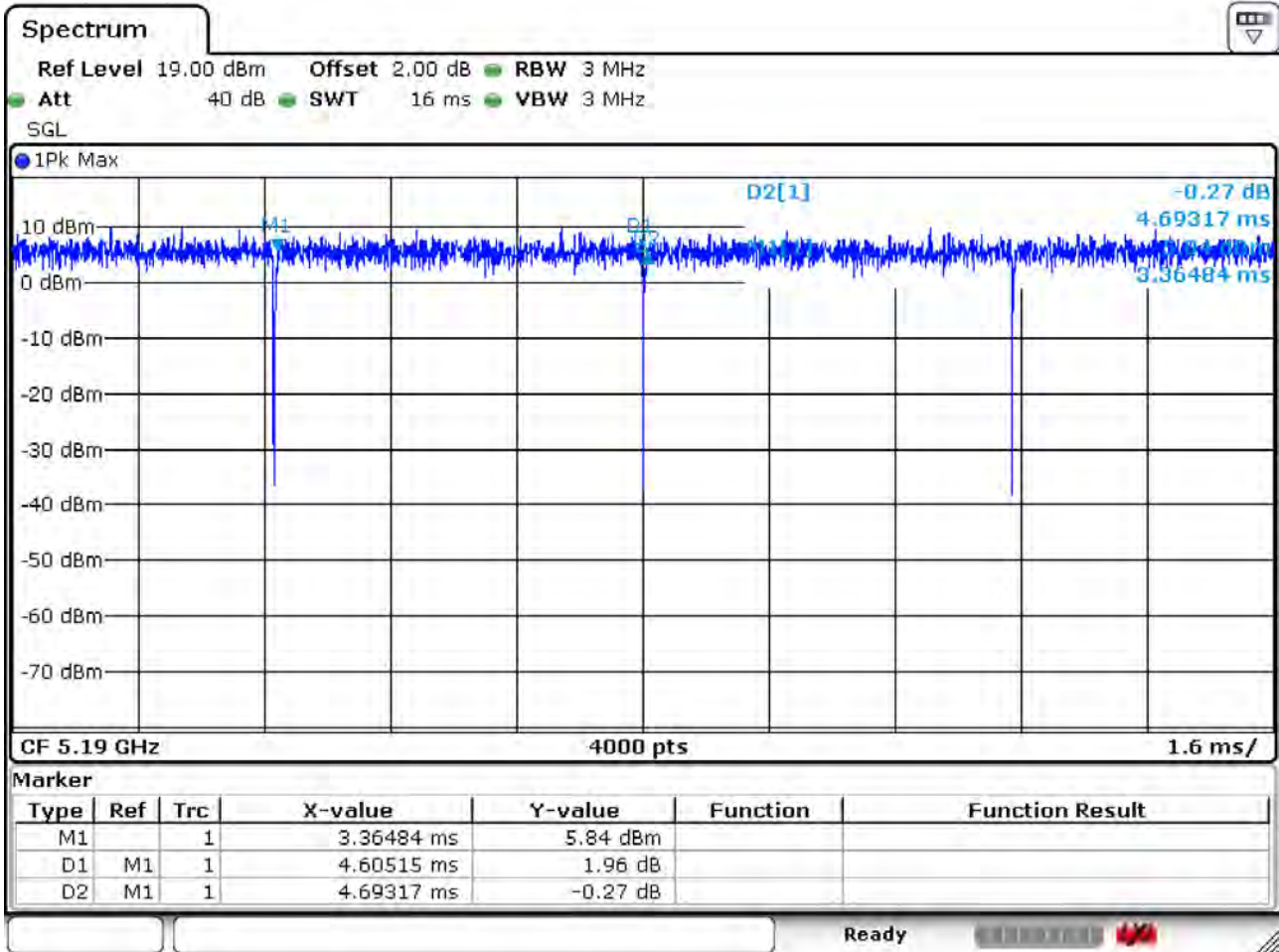
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4.3.1.1.12 11AX40MIMO\_484T



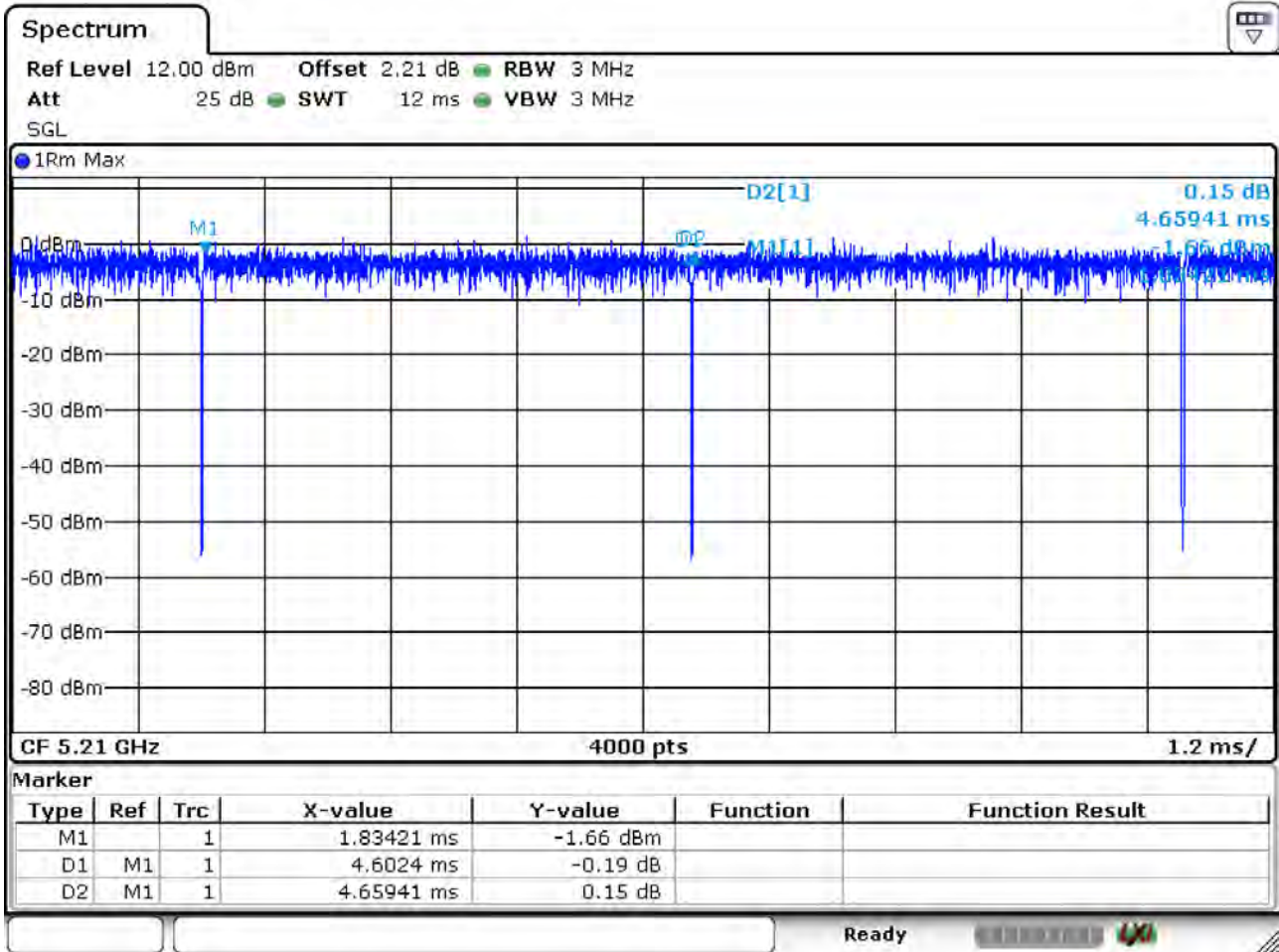
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4.3.1.1.13 11AX80MIMO\_484T



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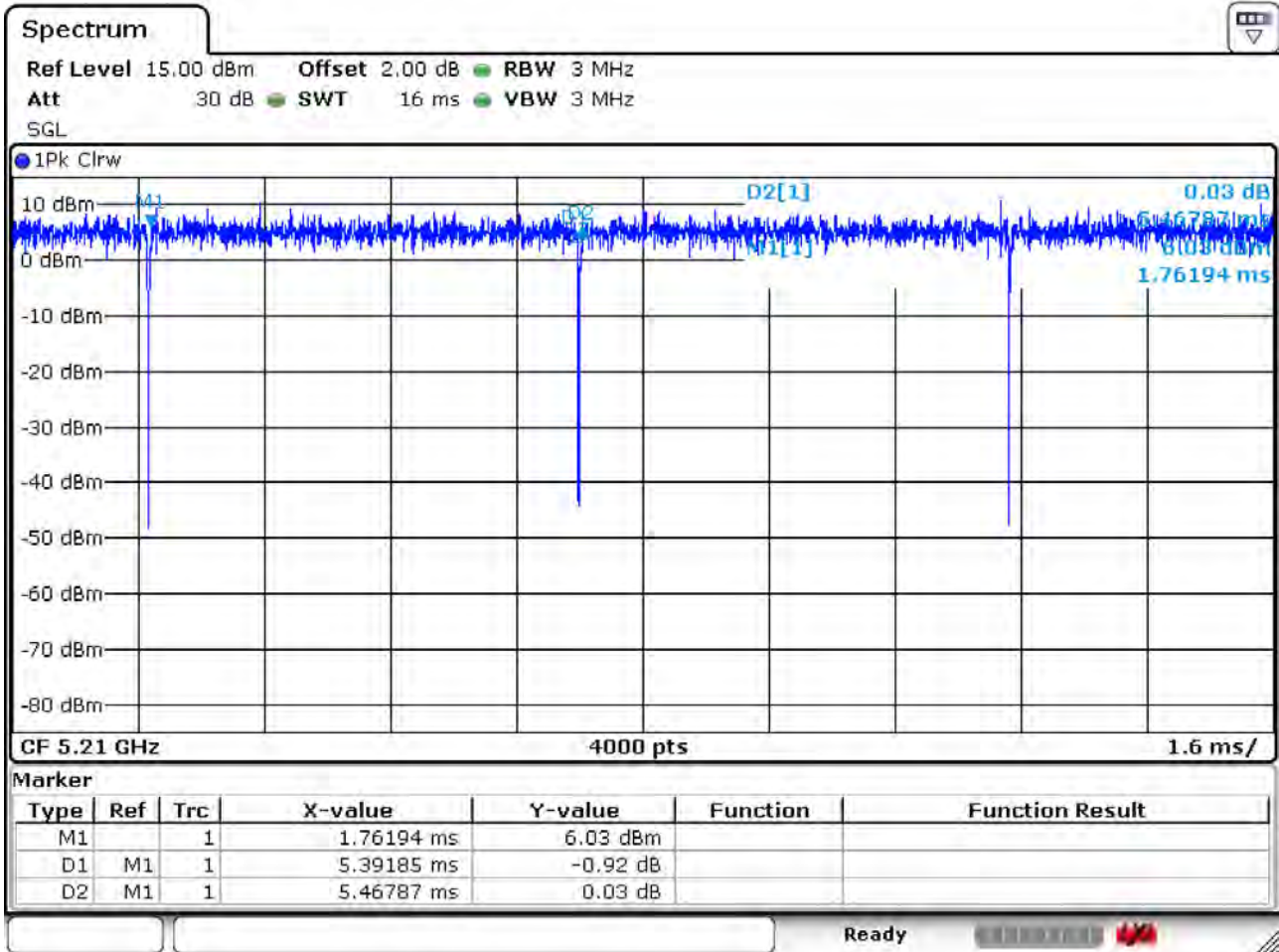


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**4.3.1.1.14 11AX80MIMO\_996T**



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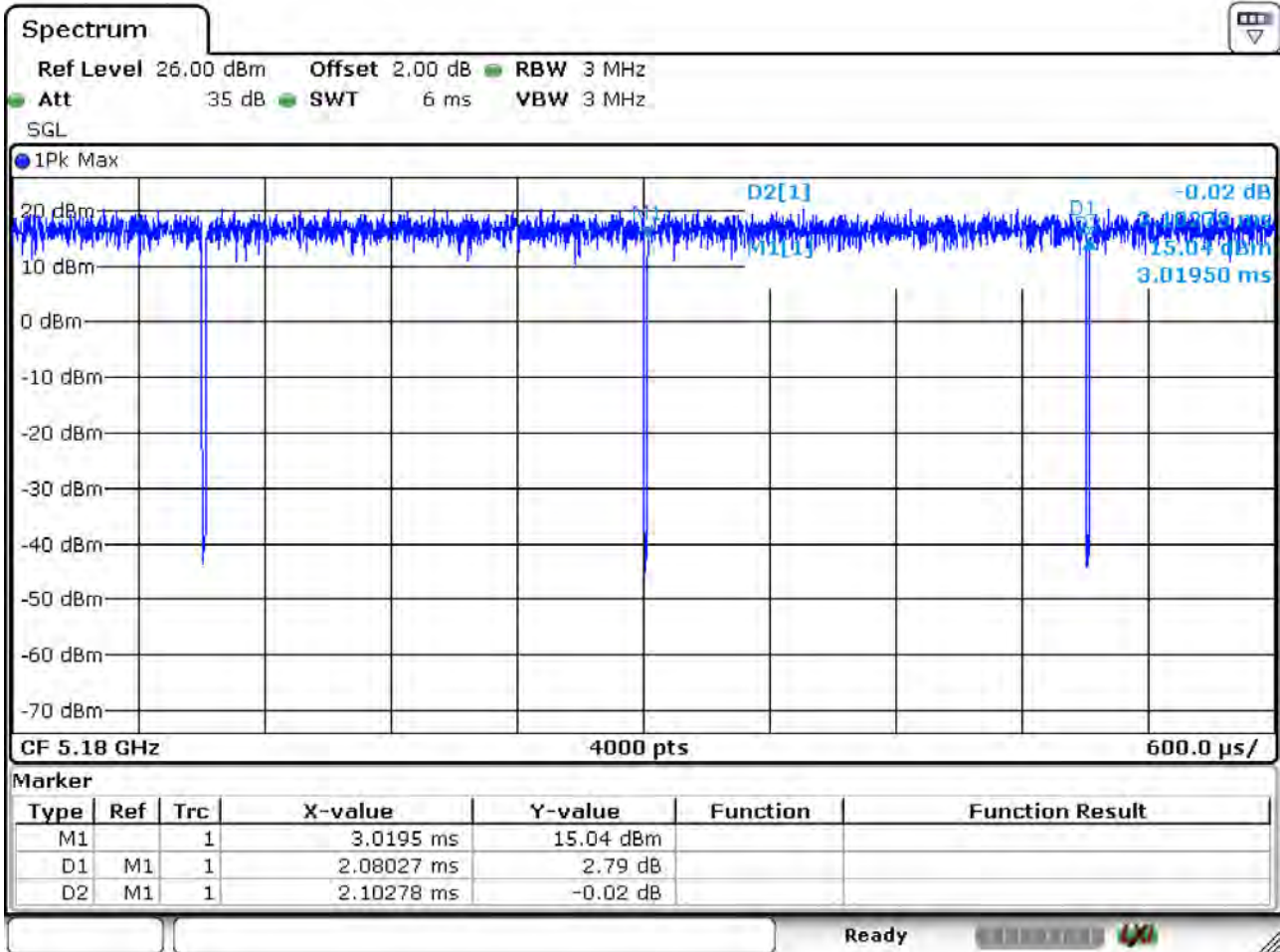
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4.3.1.2 ANT2

4.3.1.2.1 11A\_CDD



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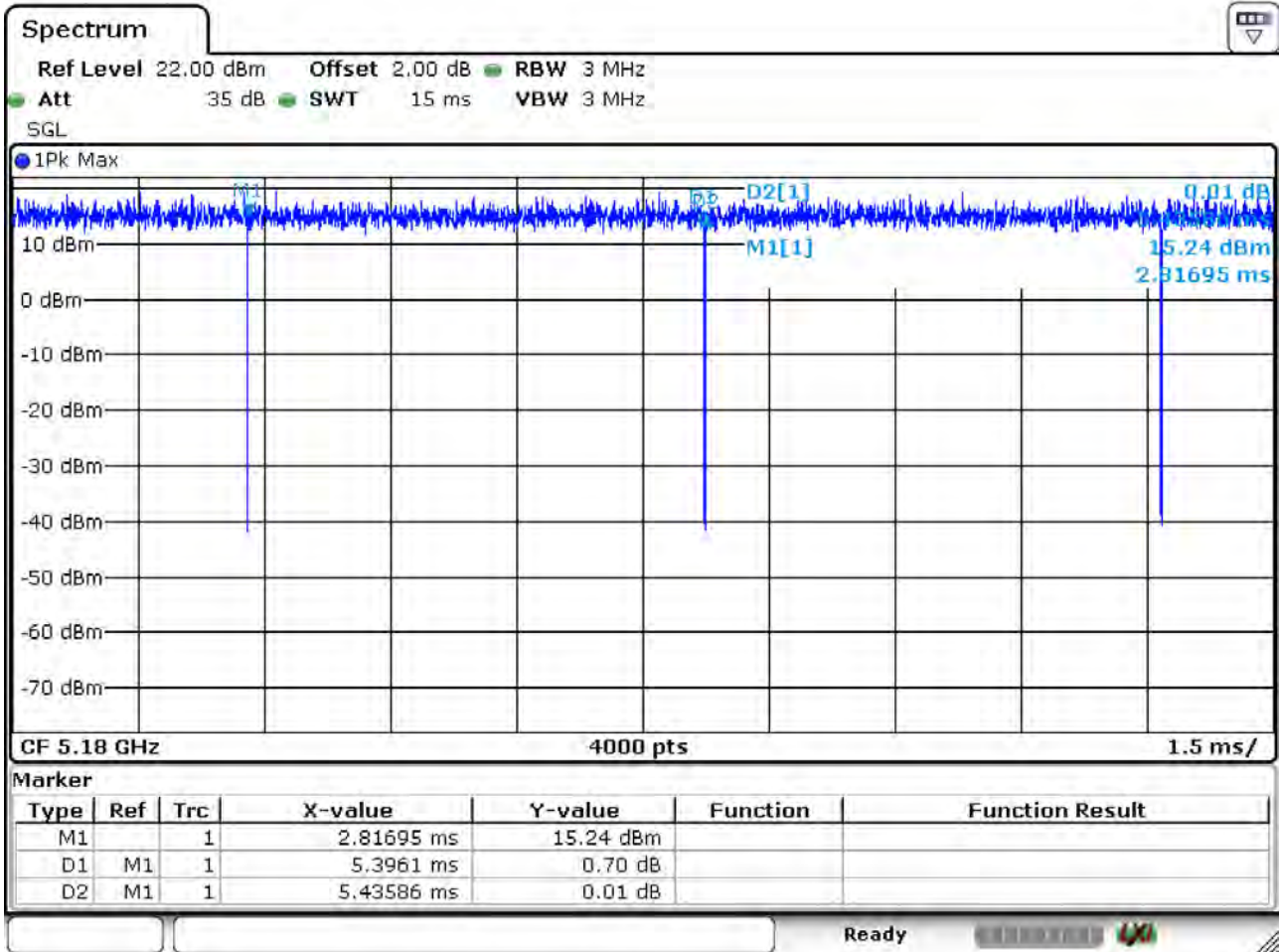


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4.3.1.2.2 11N20MIMO



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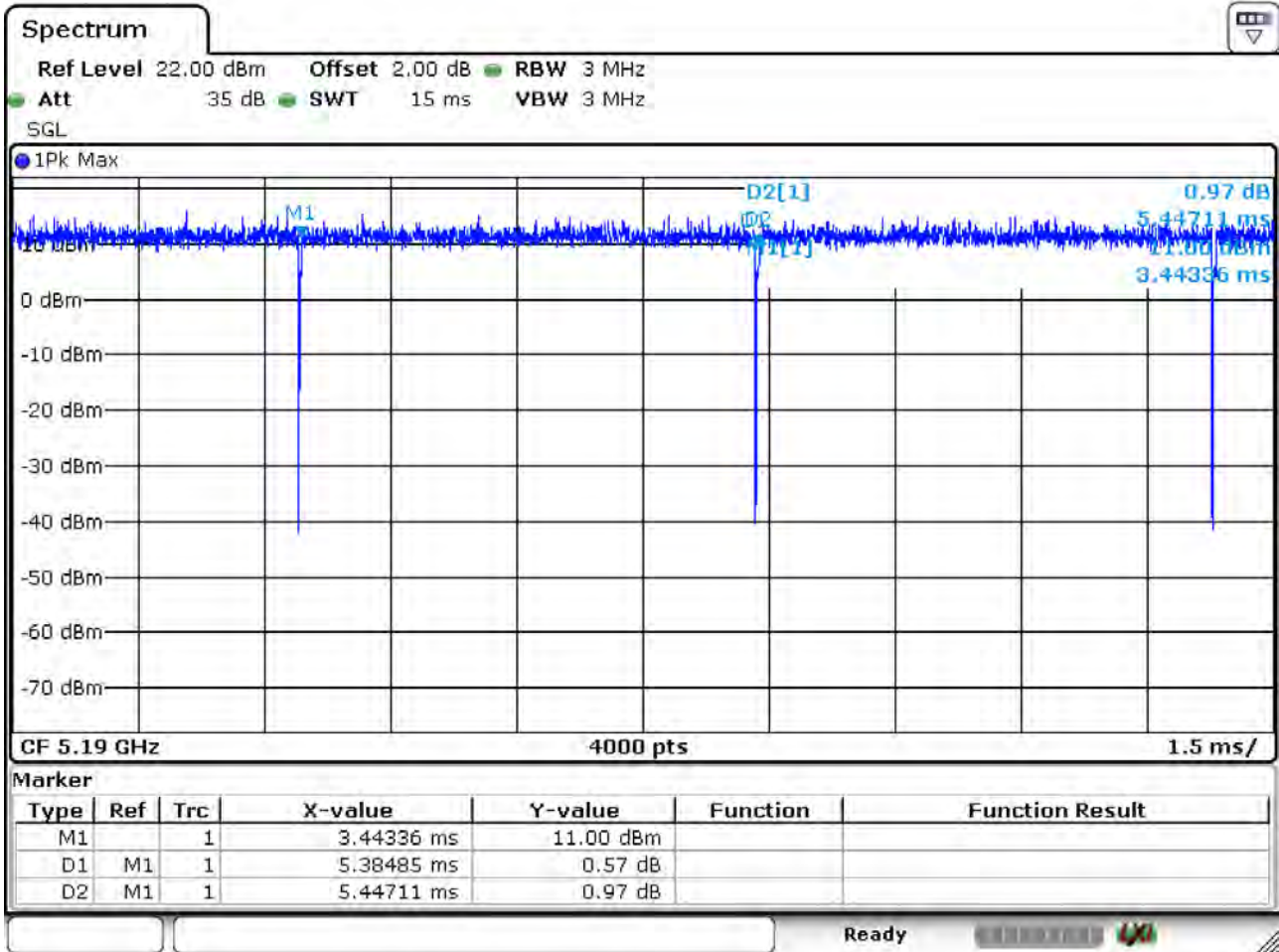
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4.3.1.2.3 11N40MIM



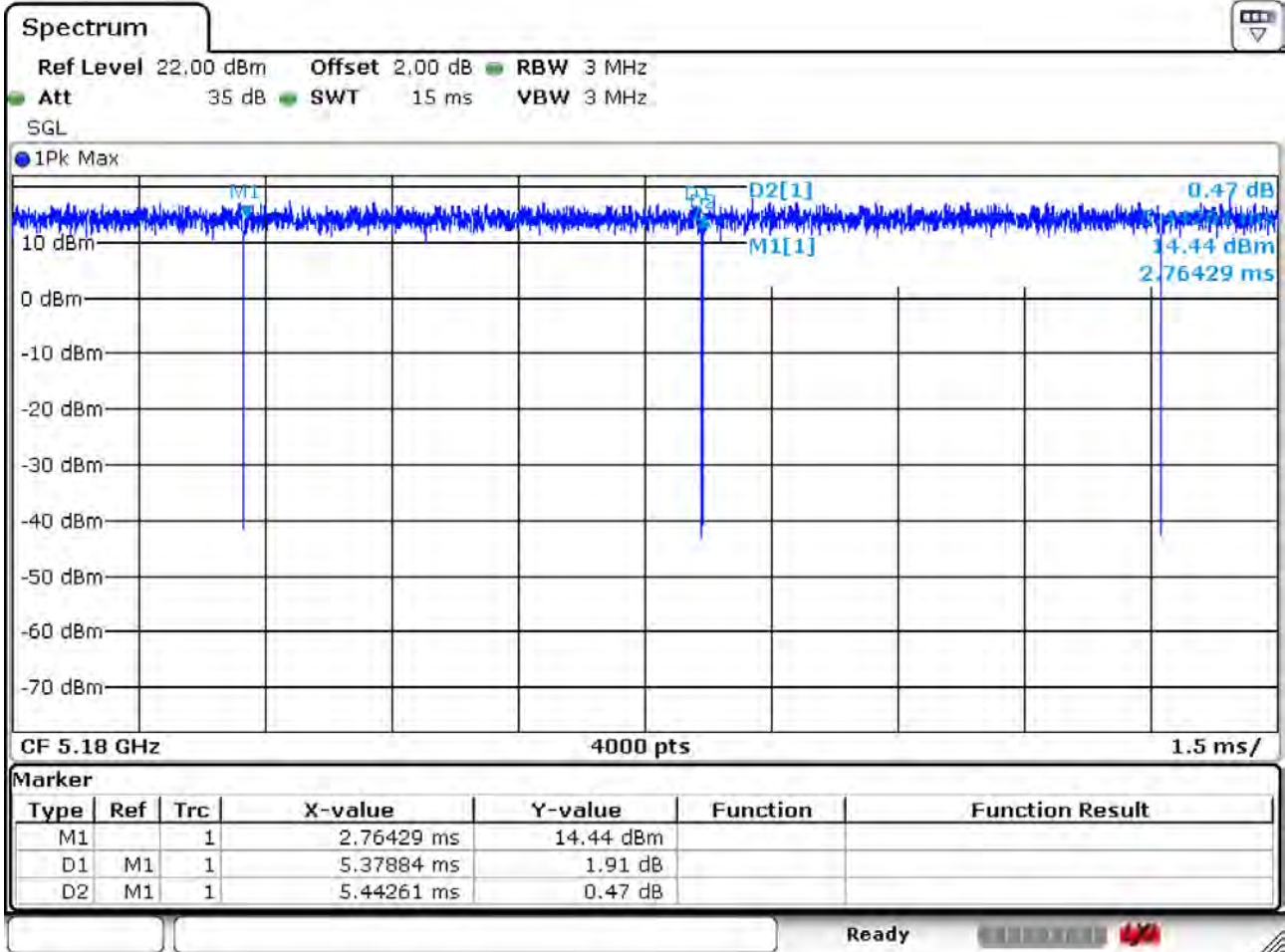
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4.3.1.2.4 11AC20MIMO



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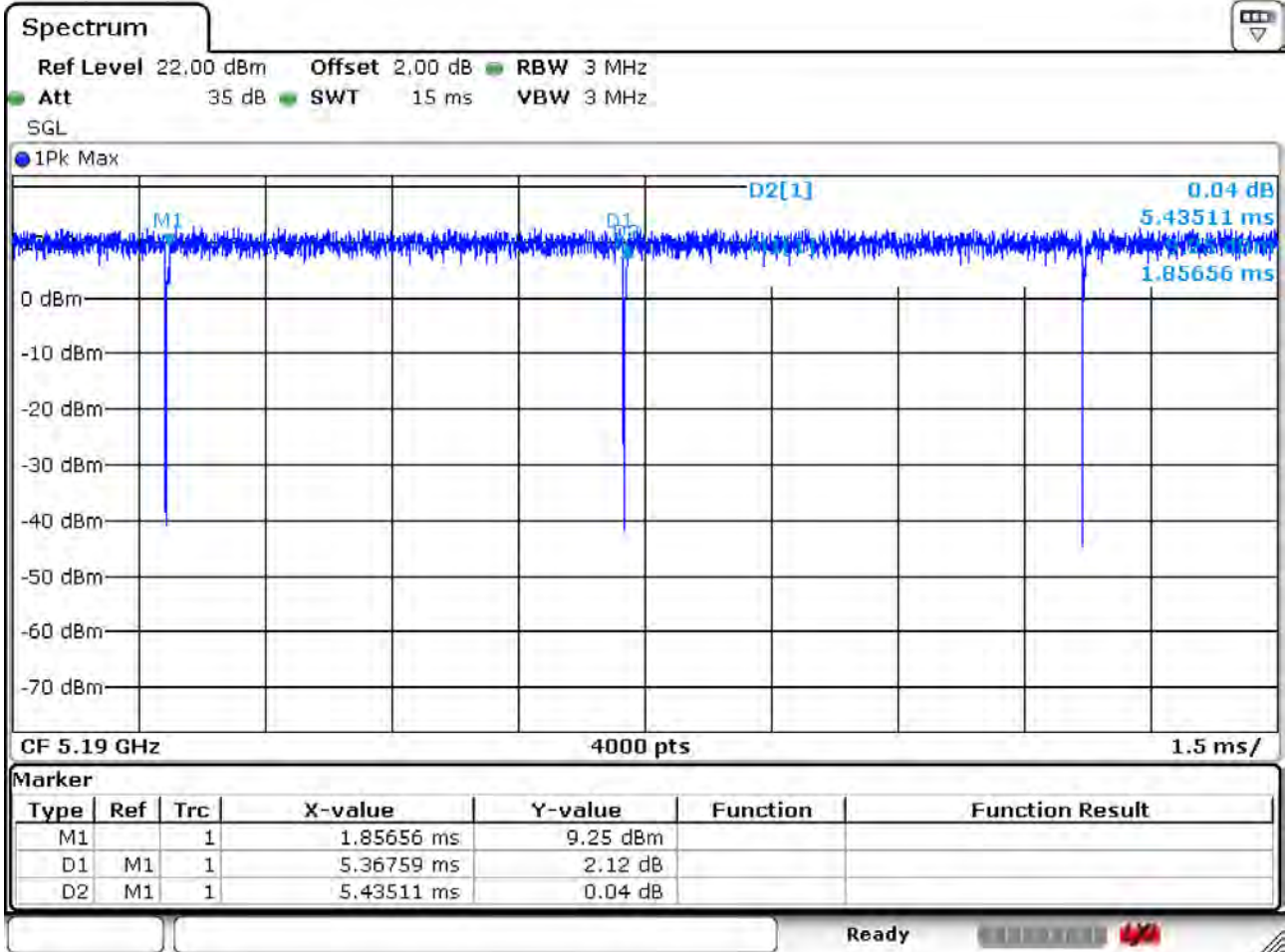
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4.3.1.2.5 11AC40MIMO



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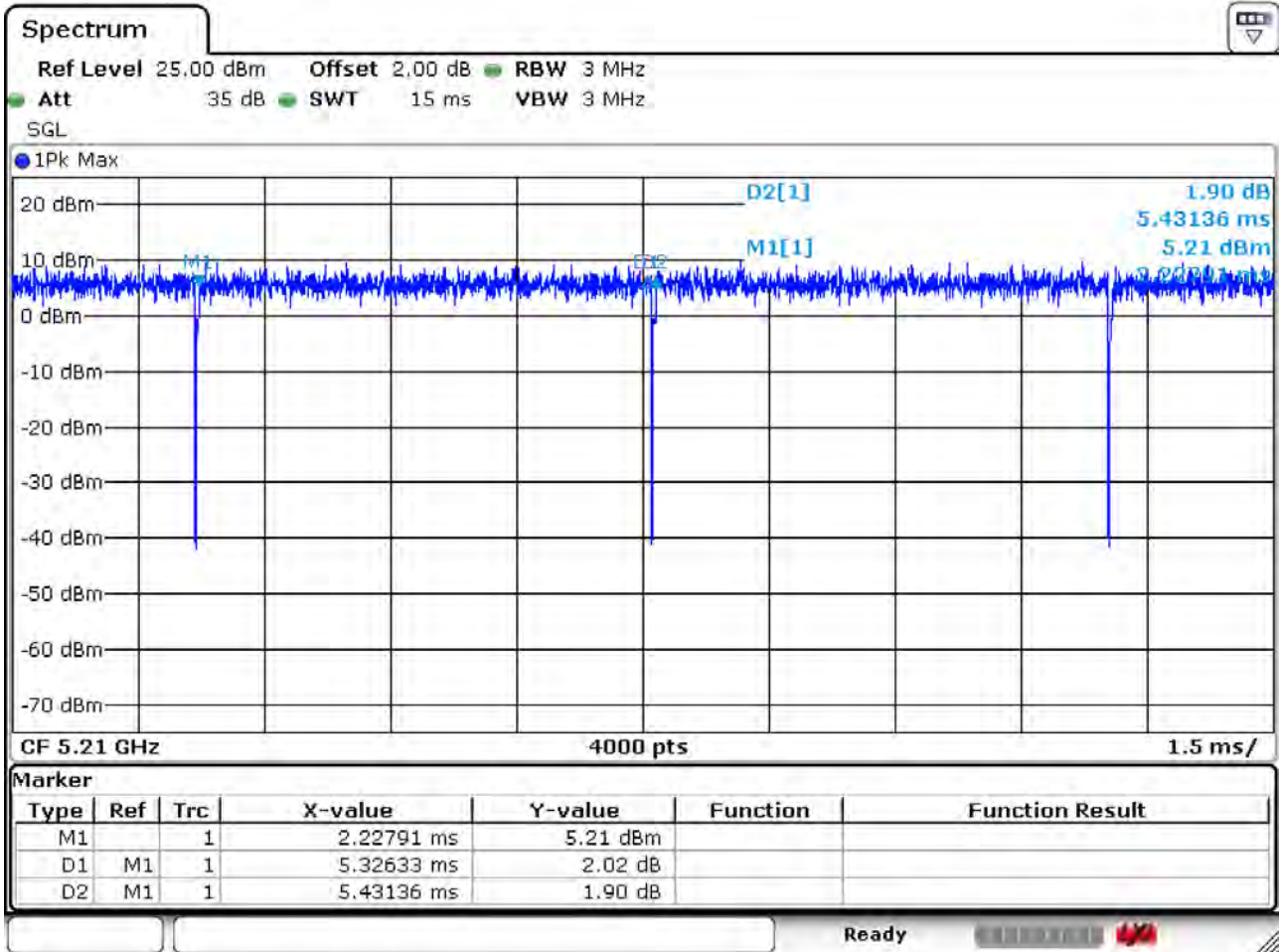
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4.3.1.2.6 11AC80MIMO



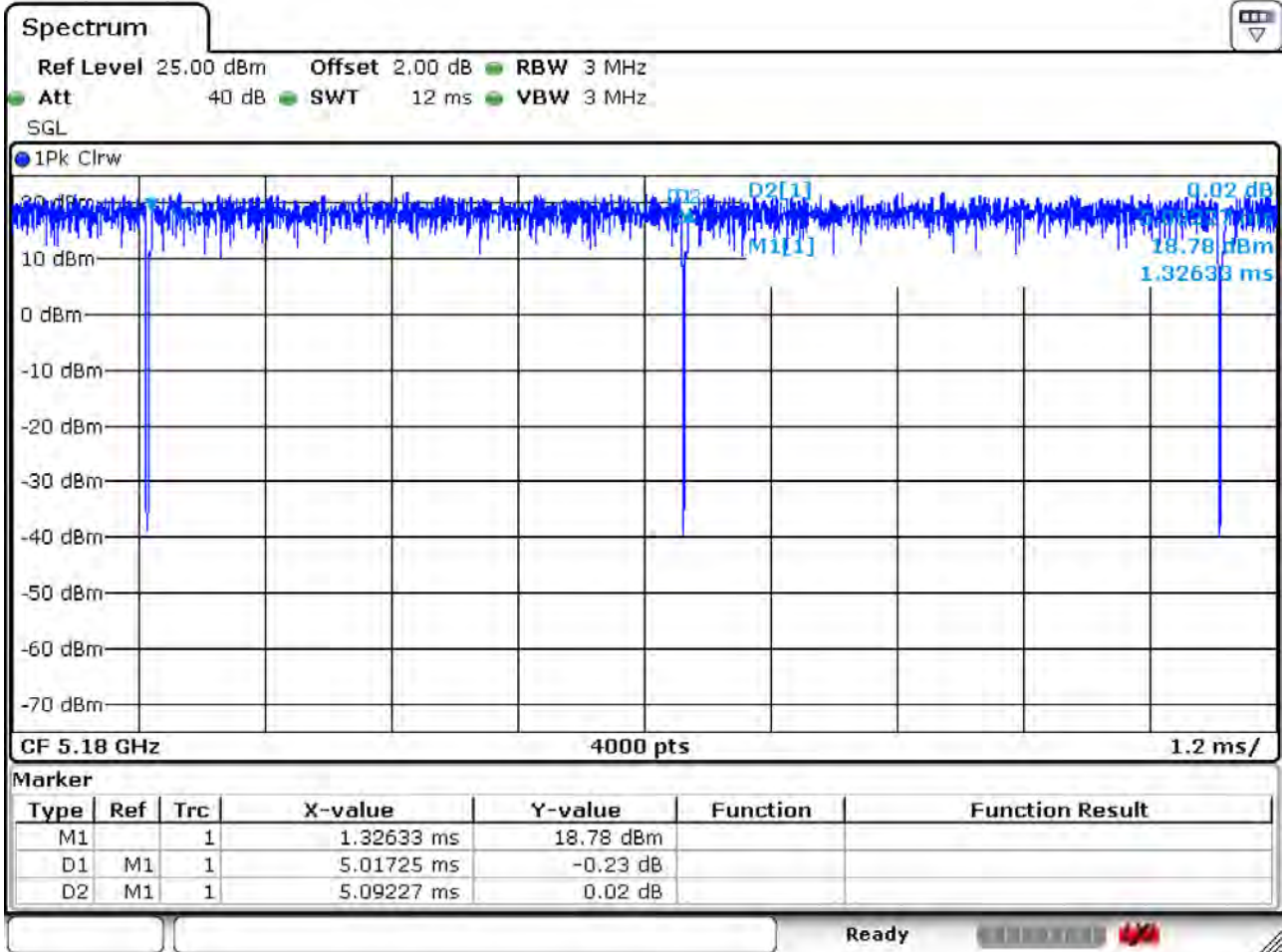
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4.3.1.2.7 11AX20MIMO\_26T



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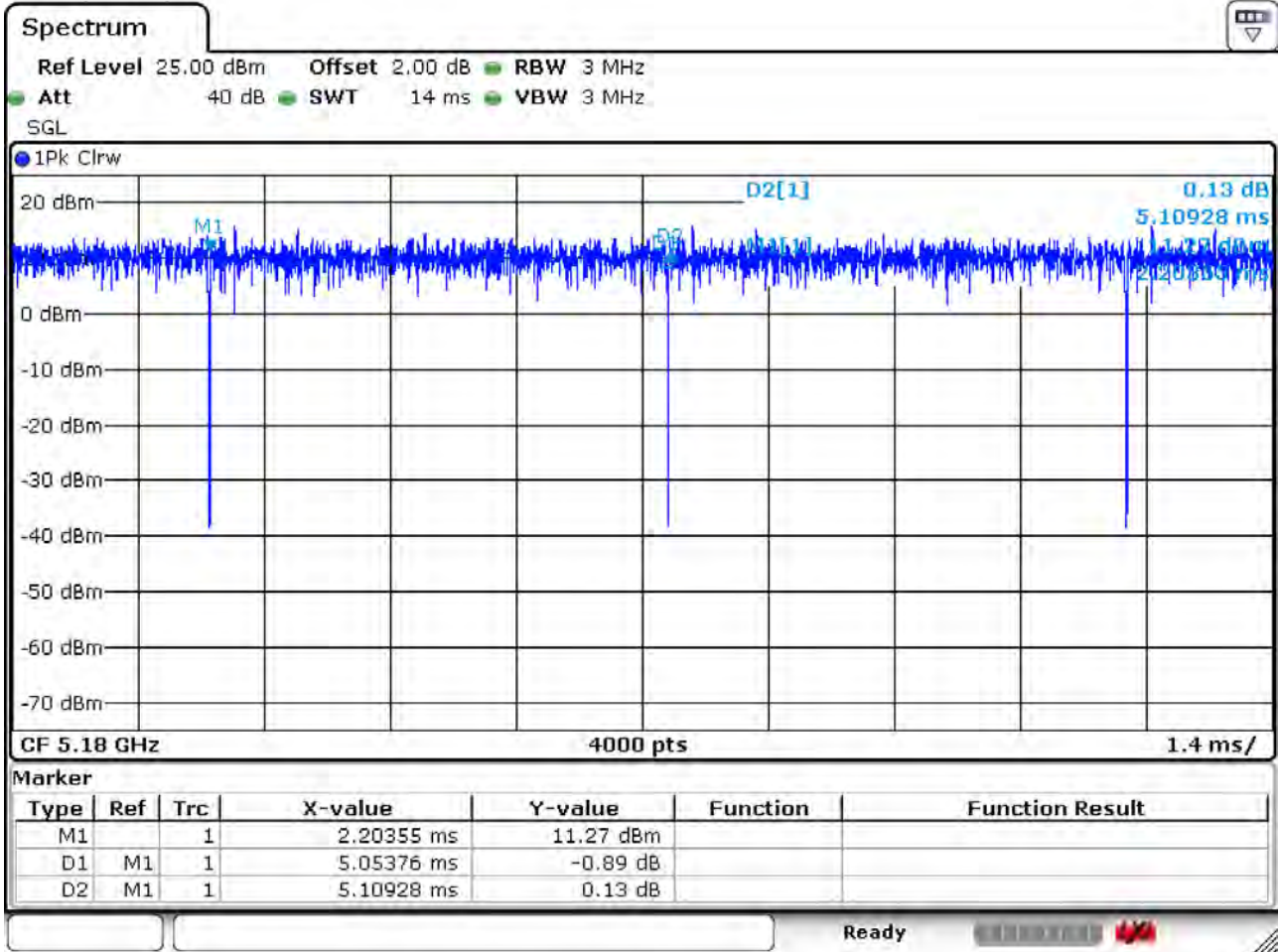


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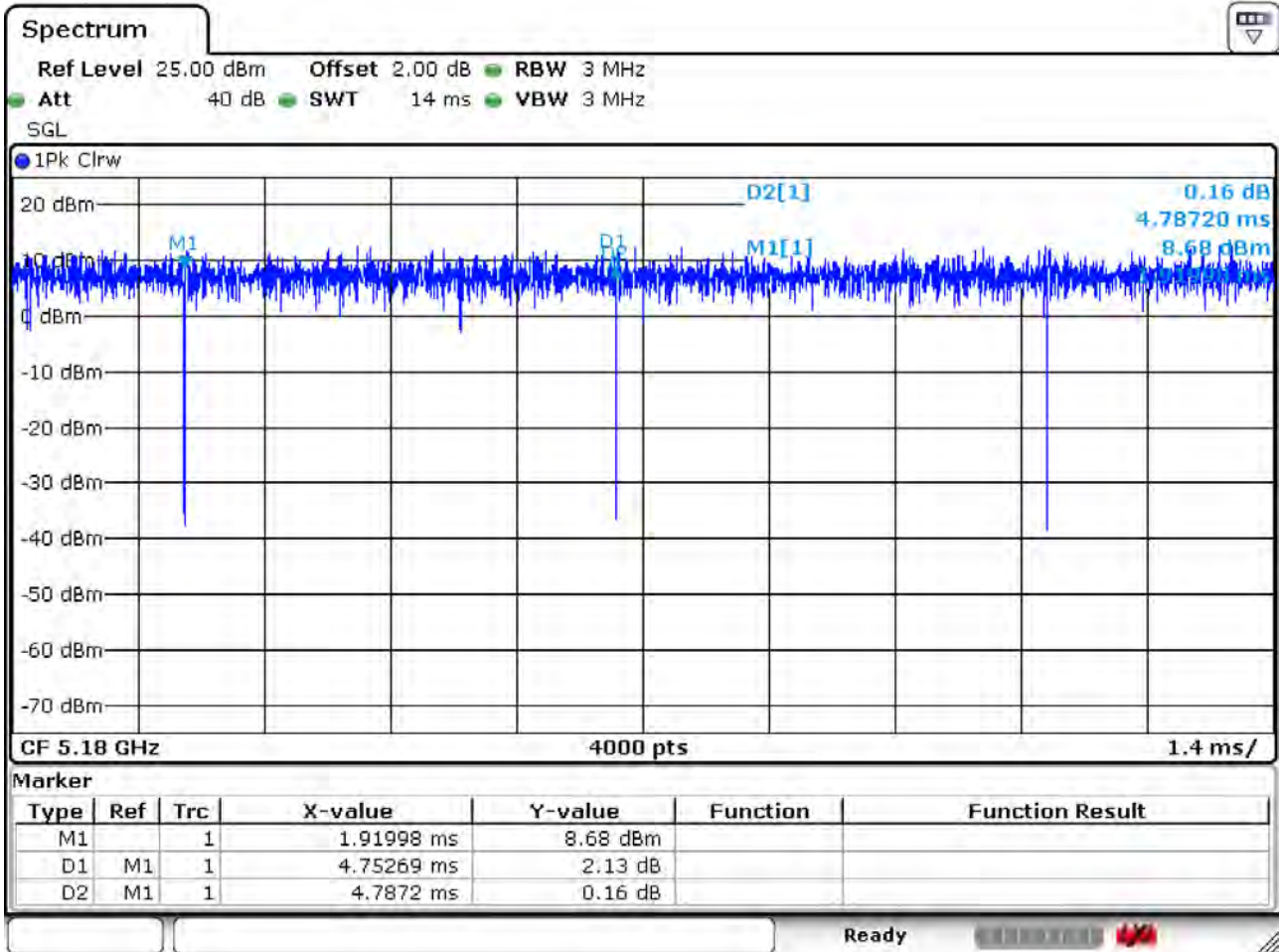
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4.3.1.2.9 11AX20MIMO\_106T



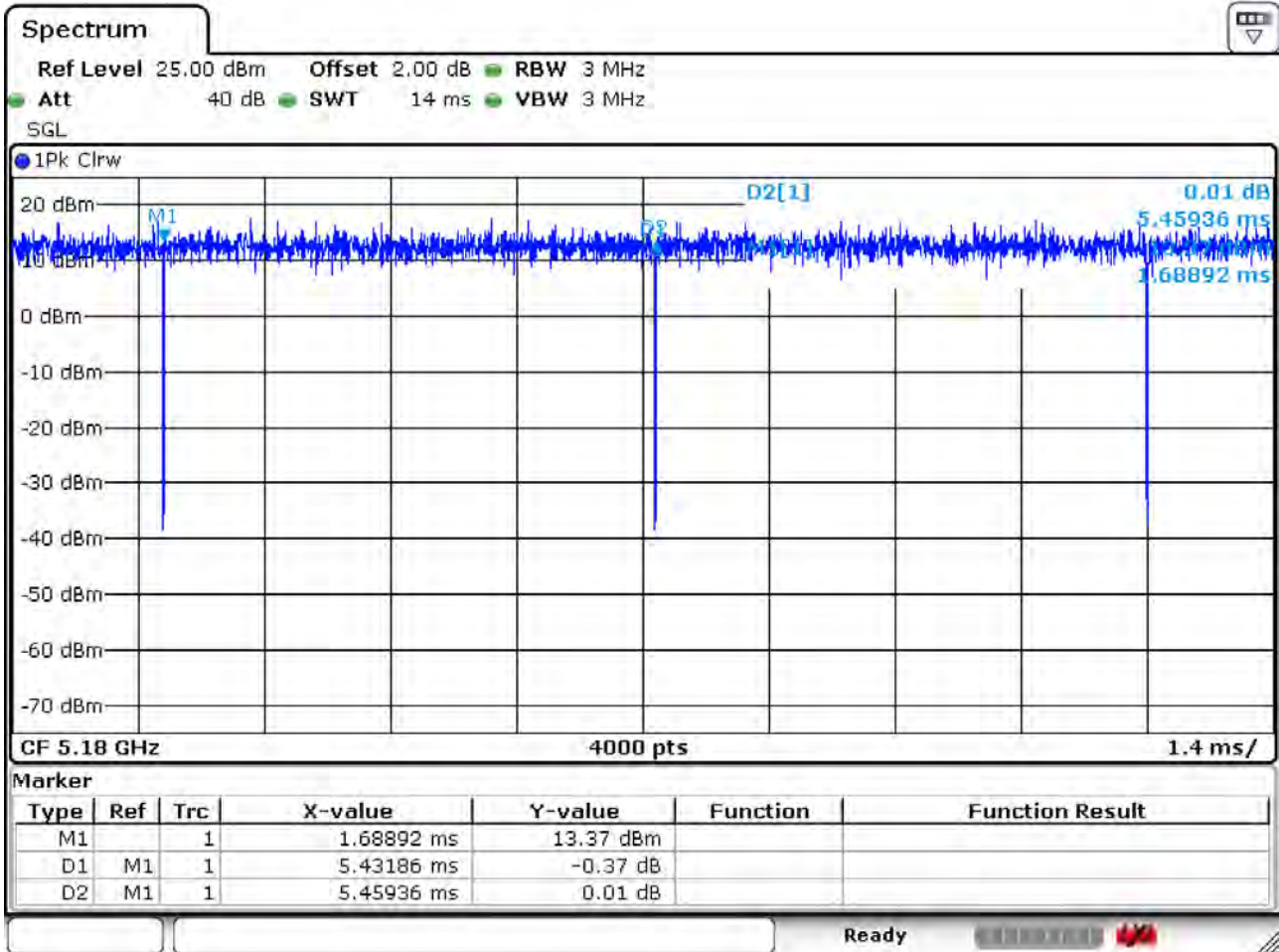
Date: 10.APR.2020 07:02:55



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4.3.1.2.10 11AX20MIMO\_242T

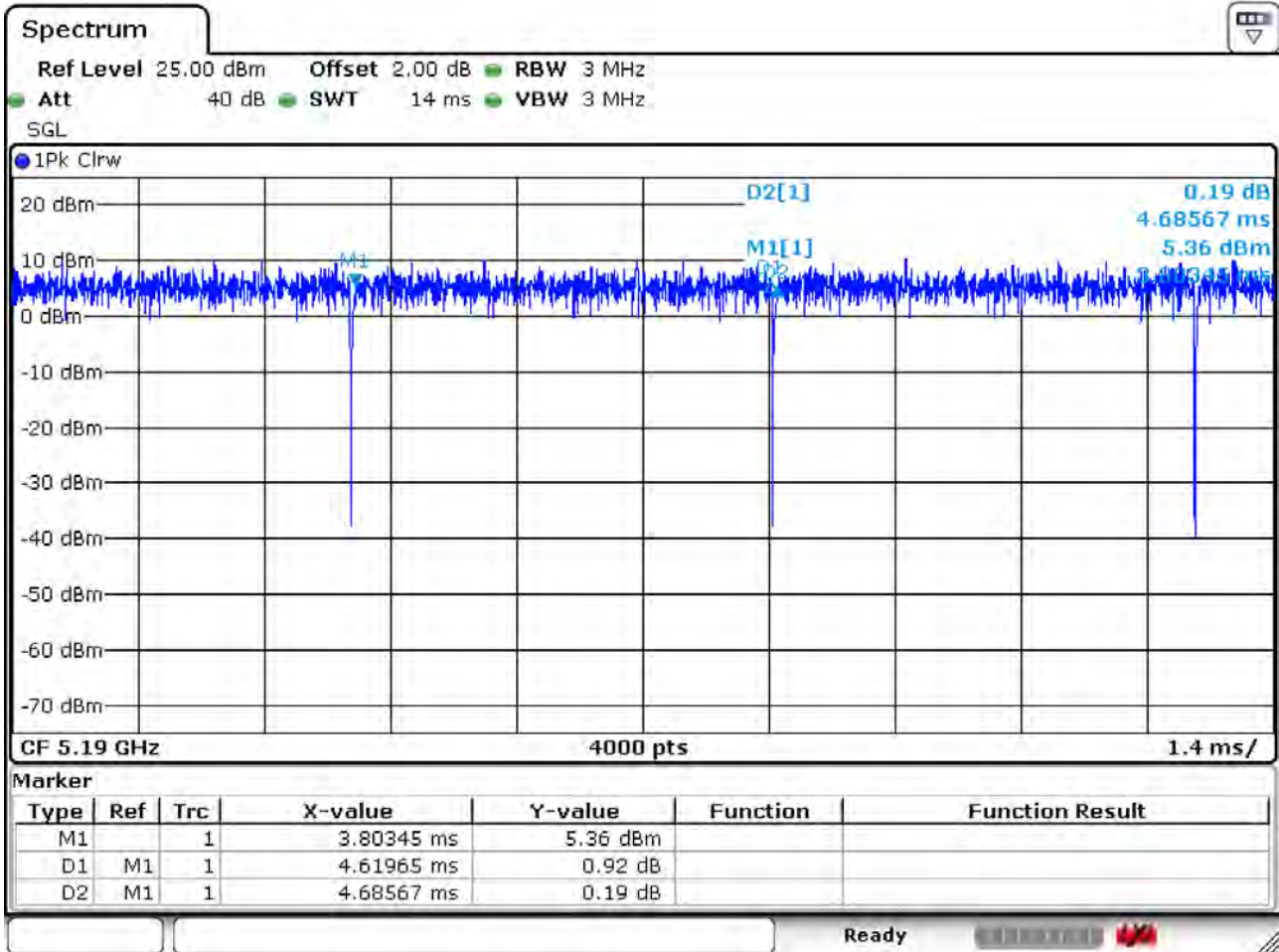


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**4.3.1.2.11 11AX40MIMO\_242T**



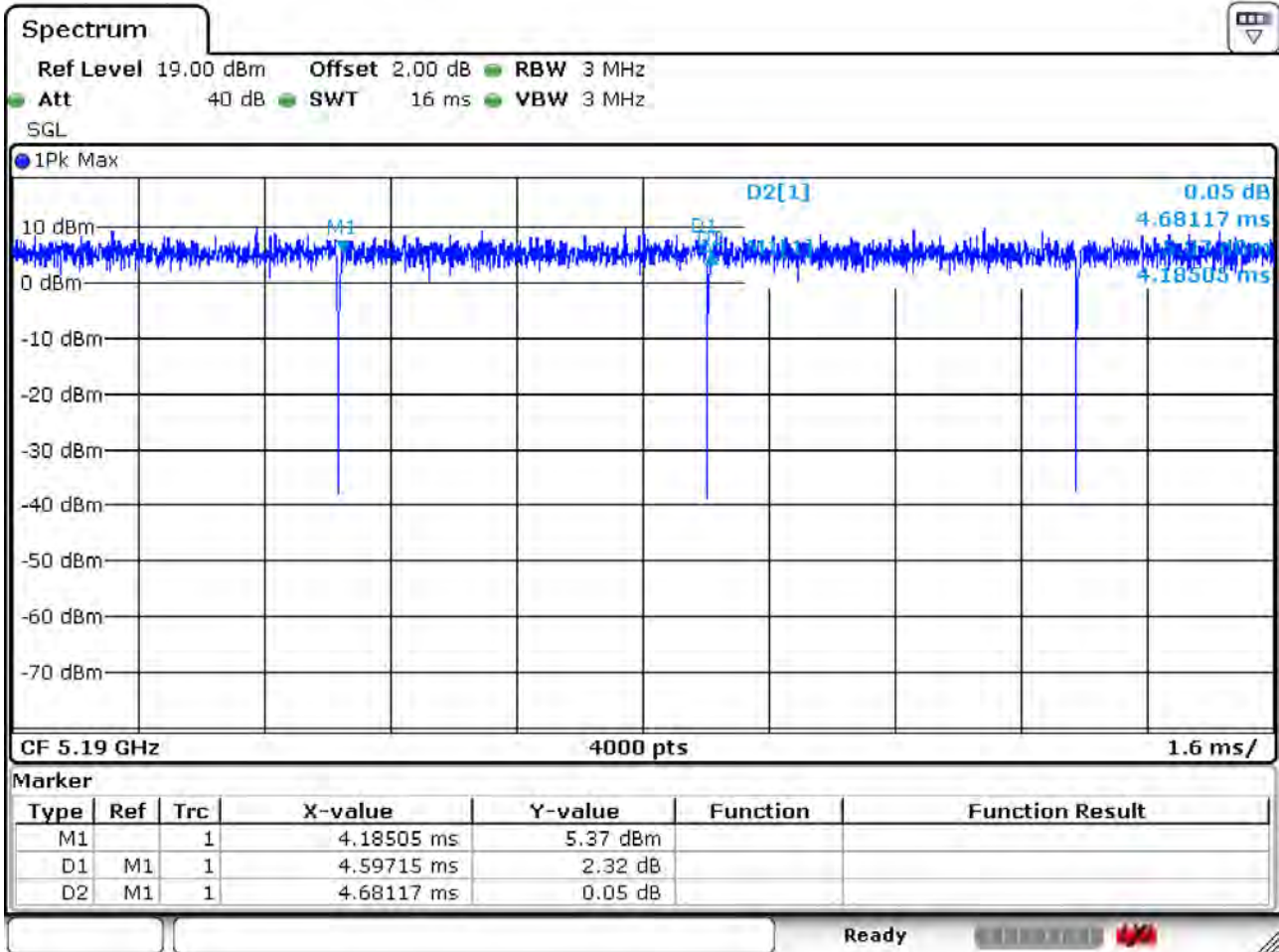
Date: 10.APR.2020 07:09:37



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4.3.1.2.12 11AX40MIMO\_484T



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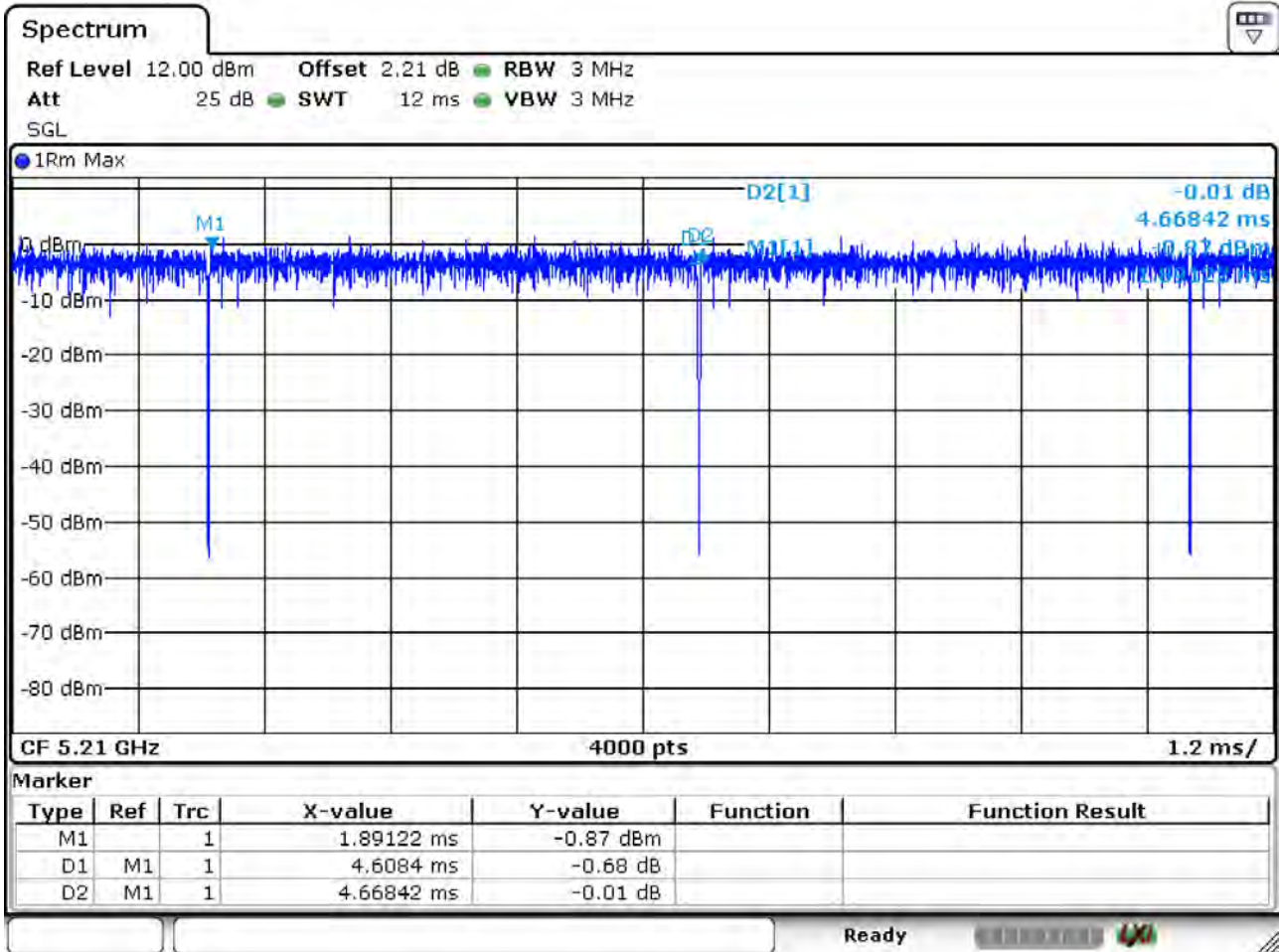
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4.3.1.2.13 11AX80MIMO\_484T



Date: 26 APR.2020 14:03:30

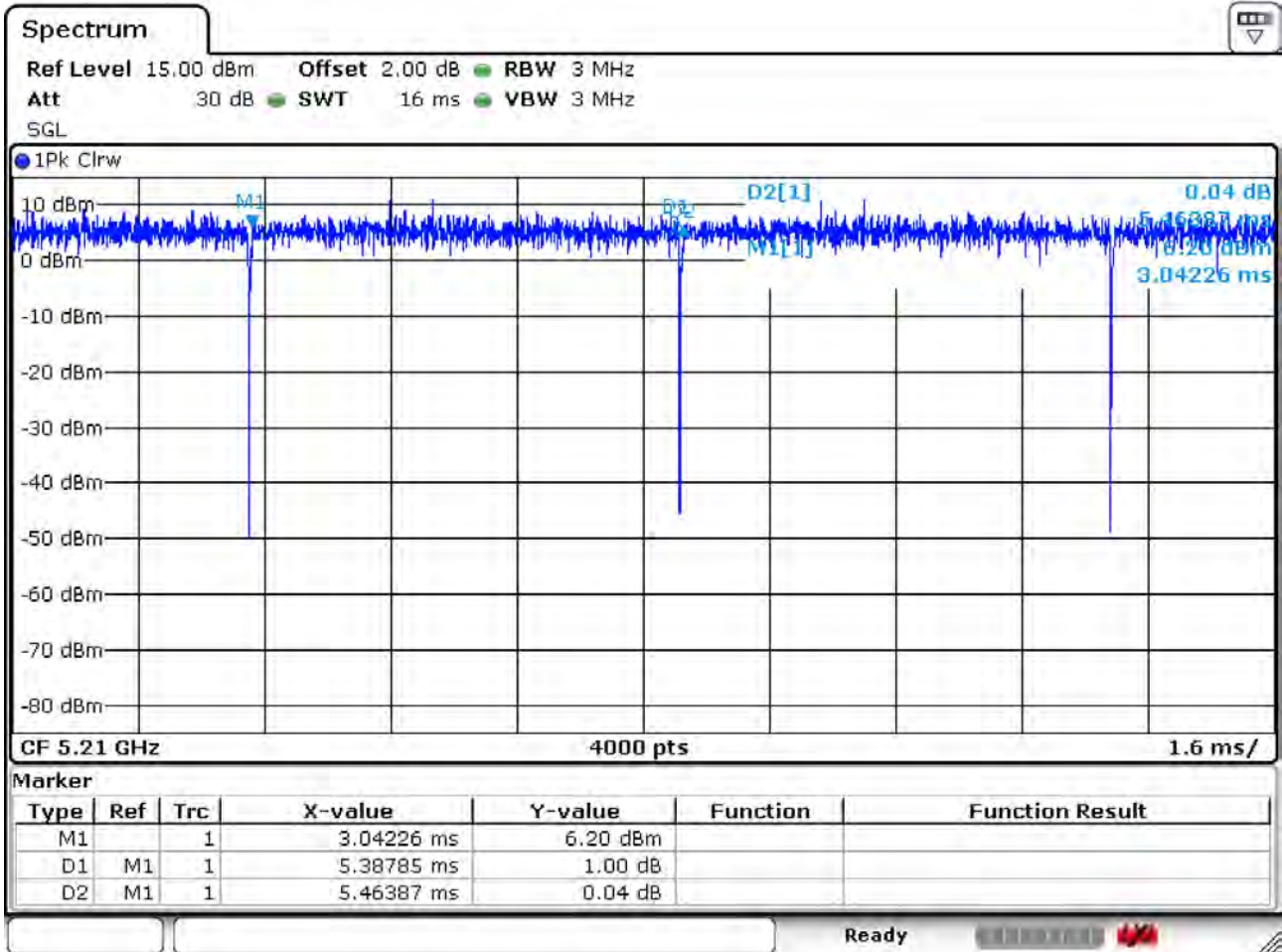


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4.3.1.2.14 11AX80MIMO\_996T



Date: 10 APR 2020 07:49:22

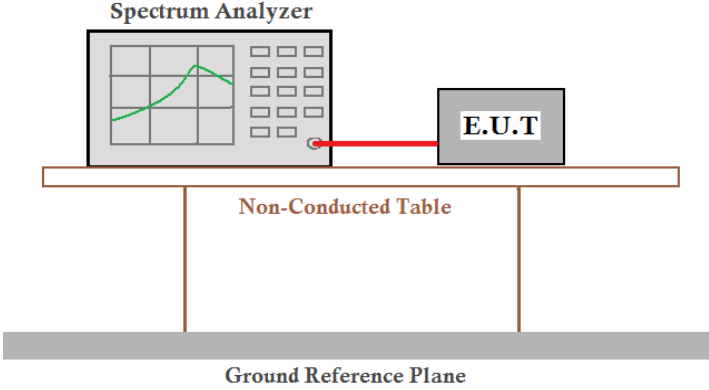


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### 4.4 Conducted Output Power

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>MCS0 of rate is the worst case of 802.11ax(HT20);</p> <p>MCS0 of rate is the worst case of 802.11ax(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ax(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
	5725-5825MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	



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Test Mode	Test Channel	Frequency [MHz]	Meas. Level (Cond.) [dBm]			Verdict
			ANT 1	ANT 2	SUM	
11A20 CDD	36	5180	16.64	16.80	19.73	PASS
	48	5240	16.93	16.83	19.89	PASS
	52	5260	16.98	16.79	19.90	PASS
	64	5320	17.20	16.62	19.93	PASS
	100	5500	17.20	17.32	20.27	PASS
	140	5700	16.79	16.90	19.86	PASS
	144	5720	16.87	16.86	19.88	PASS
	149	5745	17.01	16.87	19.95	PASS
	161	5805	16.48	16.72	19.61	PASS
11N20 MIMO	36	5180	16.56	16.73	19.66	PASS
	48	5240	16.91	16.83	19.88	PASS
	52	5260	16.97	16.73	19.86	PASS
	64	5320	17.19	16.55	19.89	PASS
	100	5500	17.1	17.23	20.18	PASS
	140	5700	16.78	16.85	19.83	PASS
	144	5720	16.81	16.79	19.81	PASS
	149	5745	16.93	16.84	19.90	PASS
	161	5805	16.45	16.69	19.58	PASS
11N40MIMO	38	5190	15.99	15.8	18.91	PASS
	46	5230	16.19	15.92	19.07	PASS
	54	5270	16.38	15.92	19.17	PASS
	62	5310	16.41	16.16	19.30	PASS
	102	5510	16.3	16.43	19.38	PASS
	134	5670	16.05	16.12	19.10	PASS
	142	5710	16.08	16.07	19.09	PASS
	151	5755	16.23	16.14	19.20	PASS
	159	5795	16.15	15.96	19.07	PASS
11AC20MIMO	36	5180	17.23	17.42	20.34	PASS
	48	5240	17.72	17.45	20.60	PASS
	52	5260	17.87	17.68	20.79	PASS
	64	5320	17.91	17.76	20.85	PASS
	100	5500	18.01	17.98	21.01	PASS
	140	5700	17.79	15.41	19.77	PASS
	144	5720	17.75	17.66	20.72	PASS
	149	5745	17.65	17.67	20.67	PASS
	161	5805	17.78	17.72	20.76	PASS
11AC40MIMO	38	5190	16.04	15.91	18.99	PASS
	46	5230	16.19	16.02	19.12	PASS
	54	5270	16.41	16.02	19.23	PASS



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	62	5310	16.43	16.26	19.36	PASS
	102	5510	16.4	16.5	19.46	PASS
	134	5670	16.13	16.2	19.18	PASS
	142	5710	16.17	15.87	19.03	PASS
	151	5755	16.3	16.23	19.28	PASS
	159	5795	16.25	16.02	19.15	PASS
11AC80MIMO	42	5210	15.05	15.03	18.05	PASS
	58	5290	15.44	15.3	18.38	PASS
	106	5530	15.3	15.38	18.35	PASS
	155	5775	15.2	15.17	18.20	PASS
11AX20MIMO_26T	36	5180	15.29	15.03	18.17	PASS
	48	5240	15.78	15.34	18.58	PASS
	52	5260	15.68	15.12	18.42	PASS
	64	5320	15.76	14.6	18.23	PASS
	100	5500	16.28	15.87	19.09	PASS
	140	5700	16.45	15.18	18.87	PASS
	149	5745	16.6	15.26	18.99	PASS
	161	5805	16.55	15.22	18.95	PASS
11AX20MIMO_52T	36	5180	15.13	15.12	18.14	PASS
	48	5240	15.46	15.47	18.48	PASS
	52	5260	15.33	15.29	18.32	PASS
	64	5320	14.56	14.73	17.66	PASS
	100	5500	15.88	15.96	18.93	PASS
	140	5700	15.54	15.27	18.42	PASS
	149	5745	15.4	15.39	18.41	PASS
	161	5805	15.52	15.38	18.46	PASS
11AX20MIMO_106T	36	5180	15.44	15.22	18.34	PASS
	48	5240	15.96	15.55	18.77	PASS
	52	5260	15.87	15.38	18.64	PASS
	64	5320	15.94	14.82	18.43	PASS
	100	5500	16.41	15.92	19.18	PASS
	140	5700	16.6	15.34	19.03	PASS
	149	5745	16.78	15.41	19.16	PASS
	161	5805	16.79	15.32	19.13	PASS
11AX20MIMO_242T	36	5180	16.05	15.79	18.93	PASS
	48	5240	16.1	15.88	19.00	PASS
	52	5260	16.17	15.75	18.98	PASS
	64	5320	16.01	15.76	18.90	PASS
	100	5500	16.48	16.23	19.37	PASS
	140	5700	15.86	16.01	18.95	PASS
	149	5745	15.86	16.16	19.02	PASS
	161	5805	16	16.08	19.05	PASS
11AX40MIMO_242T	38	5190	14.38	14.2	17.30	PASS



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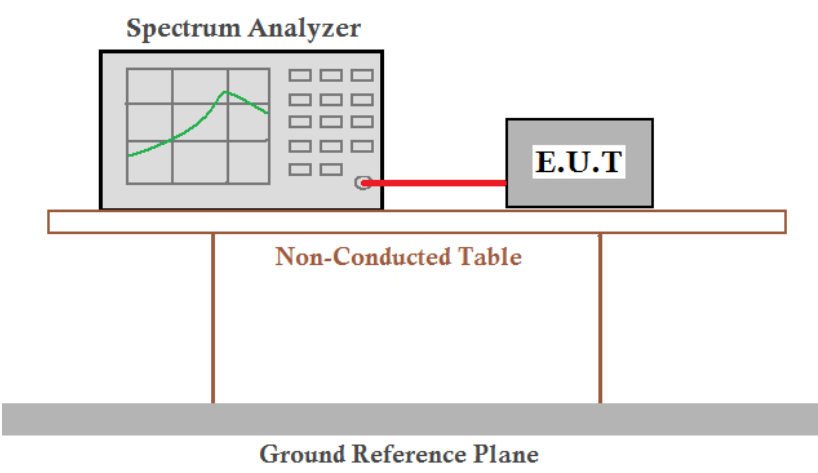
	46	5230	14.64	14.62	17.64	PASS
	54	5270	14.5	14.28	17.40	PASS
	62	5310	14.62	14.07	17.36	PASS
	102	5510	15.41	14.77	18.11	PASS
	134	5670	15.13	14.25	17.72	PASS
	151	5755	15.71	14.53	18.17	PASS
	159	5795	15.59	14.5	18.09	PASS
11AX40MIMO_484T	38	5190	14.55	14.32	17.45	PASS
	46	5230	14.68	14.63	17.67	PASS
	54	5270	14.53	14.5	17.53	PASS
	62	5310	14.73	14.69	17.72	PASS
	102	5510	15.41	14.84	18.14	PASS
	134	5670	15.26	14.23	17.79	PASS
	151	5755	15.79	14.55	18.22	PASS
11AX80MIMO_484T	159	5795	15.66	14.88	18.30	PASS
	42	5210	16.4	16.38	19.40	PASS
	58	5290	17.05	16.78	19.93	PASS
	106	5530	16.97	15.85	19.46	PASS
11AX80MIMO_996T	155	5775	16.3	15.6	18.97	PASS
	42	5210	14.73	14.83	17.79	PASS
	58	5290	14.47	14.38	17.44	PASS
	106	5530	14.9	14.83	17.88	PASS
	155	5775	14.76	14.62	17.70	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:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	<p>Through Pre-scan, find the</p> <ul style="list-style-type: none"> <li>6Mbps of rate is the worst case of 802.11a;</li> <li>MCS0 of rate is the worst case of 802.11n(HT20);</li> <li>MCS0 of rate is the worst case of 802.11n(HT40);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT20);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT40);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT80).</li> <li>MCS0 of rate is the worst case of 802.11ax(HT20);</li> <li>MCS0 of rate is the worst case of 802.11ax(HT40);</li> <li>MCS0 of rate is the worst case of 802.11ax(HT80).</li> </ul> <p>Only the worst case is recorded in the report.</p>
Limit:	No restriction limits
Test Results:	Pass



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Test Mode	Test Channel	Frequency [MHz]	26dB Emission Bandwidth [MHz]		Verdict
			ANT 1	ANT 2	
11A20CDD	36	5180	20.01	19.11	PASS
	48	5240	19.65	19.11	PASS
	52	5260	19.95	19.02	PASS
	64	5320	21.15	19.08	PASS
	100	5500	19.11	19.02	PASS
	140	5700	19.26	19.08	PASS
	144	5720	19.29	19.02	PASS
11N20MIMO	36	5180	20.31	20.13	PASS
	48	5240	19.95	19.95	PASS
	52	5260	20.31	20.22	PASS
	64	5320	21.12	19.98	PASS
	100	5500	20.04	20.07	PASS
	140	5700	20.22	19.98	PASS
	144	5720	19.89	18.89	PASS
11N40MIMO	38	5190	39.66	39.36	PASS
	46	5230	39.78	39.24	PASS
	54	5270	39.66	39.12	PASS
	62	5310	39.84	39.24	PASS
	102	5510	39.78	39.24	PASS
	134	5670	39.54	39.06	PASS
	142	5710	39.66	39.06	PASS
11AC20MIMO	36	5180	29.76	29.55	PASS
	48	5240	29.88	28.95	PASS
	52	5260	29.97	27.84	PASS
	64	5320	29.91	28.71	PASS
	100	5500	26.76	25.26	PASS
	140	5700	26.55	22.92	PASS
	144	5720	26.25	26.25	PASS
11AC40MIMO	38	5190	51.42	47.88	PASS
	46	5230	52.74	52.14	PASS
	54	5270	48.84	46.68	PASS
	62	5310	46.14	46.14	PASS
	102	5510	44.64	46.08	PASS
	134	5670	44.4	45.18	PASS
	142	5710	45.18	45.6	PASS
11AC80MIMO	42	5210	89.12	92.96	PASS
	58	5290	88.16	90.88	PASS
	106	5530	88.48	91.36	PASS
11AX20MIMO_26T	36	5180	18.54	18.54	PASS
	48	5240	18.9	18.57	PASS
	52	5260	18.9	18.57	PASS
	64	5320	18.84	18.57	PASS



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	100	5500	18.81	18.51	PASS
	140	5700	18.57	18.06	PASS
11AX20MIMO_106T	36	5180	23.31	25.92	PASS
	48	5240	23.79	24.93	PASS
	52	5260	23.34	24.99	PASS
	64	5320	23.25	24.93	PASS
	100	5500	21.48	24.12	PASS
	140	5700	21.39	21.48	PASS
11AX20MIMO_242T	36	5180	21.27	21.03	PASS
	48	5240	21.3	21.24	PASS
	52	5260	21.21	21.21	PASS
	64	5320	21.18	21.18	PASS
	100	5500	21.3	21.33	PASS
	140	5700	21.24	21.27	PASS
11AX40MIMO_242T	38	5190	41.82	42.18	PASS
	46	5230	41.82	42.18	PASS
	54	5270	41.88	41.7	PASS
	62	5310	42.18	41.94	PASS
	102	5510	41.46	41.64	PASS
	134	5670	41.4	41.76	PASS
11AX40MIMO_484T	38	5190	44.16	44.22	PASS
	46	5230	44.16	44.40	PASS
	54	5270	44.22	44.22	PASS
	62	5310	44.28	44.28	PASS
	102	5510	44.28	44.22	PASS
	134	5670	44.1	44.28	PASS
11AX80MIMO_484T	42	5210	88.00	86.88	PASS
	58	5290	93.44	93.44	PASS
	106	5530	84.64	85.44	PASS
11AX80MIMO_996T	42	5210	82.88	82.4	PASS
	58	5290	83.04	83.04	PASS
	106	5530	82.88	82.4	PASS



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### 4.5.1 Plots for 26dB Emission Bandwidth

#### 4.5.1.1 11A20\_CDD\_36 ANT 1



Date: 9 APR 2020 03:37:38

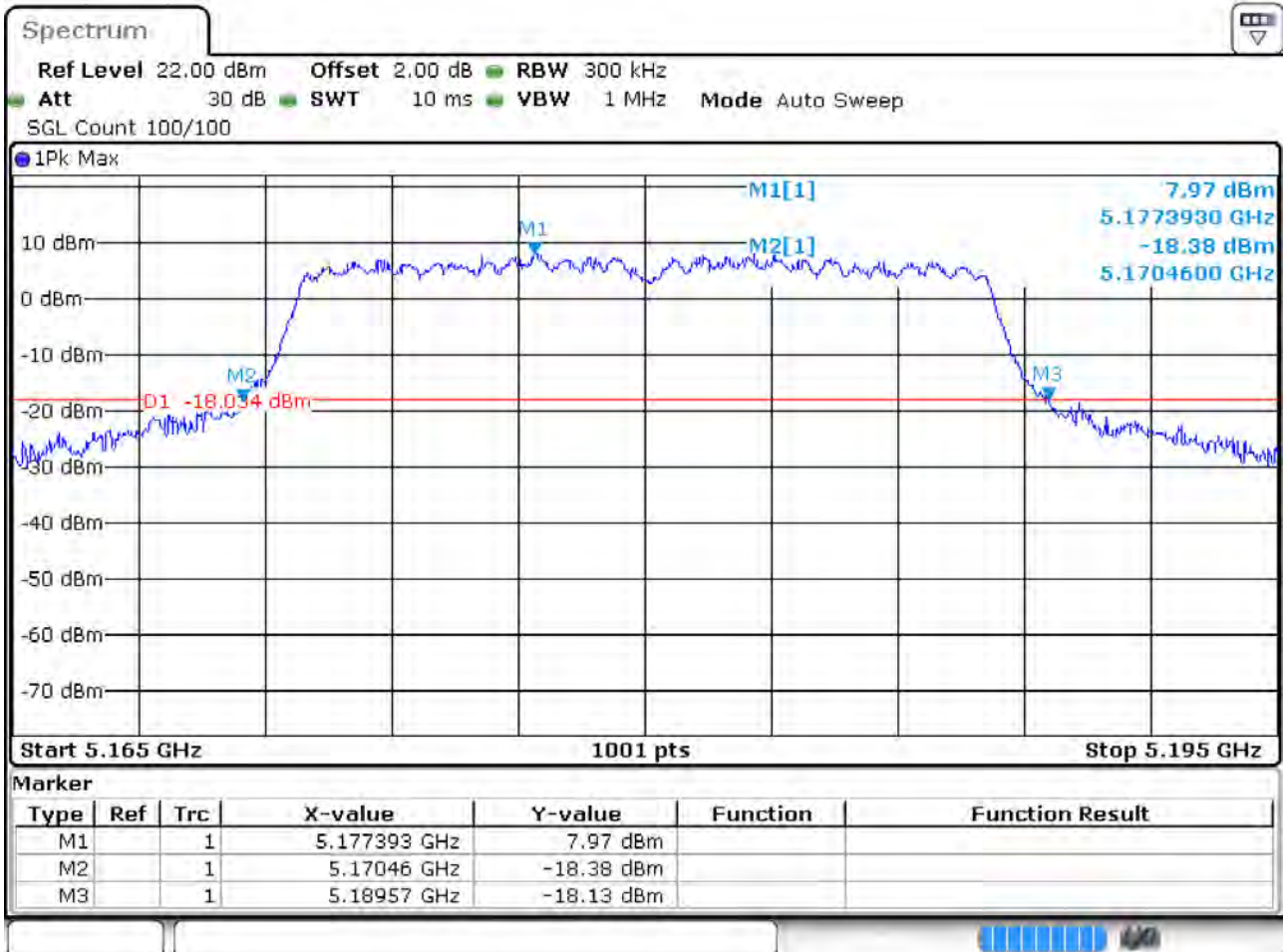


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**4.5.1.2 11A20\_CDD\_36 ANT 2**

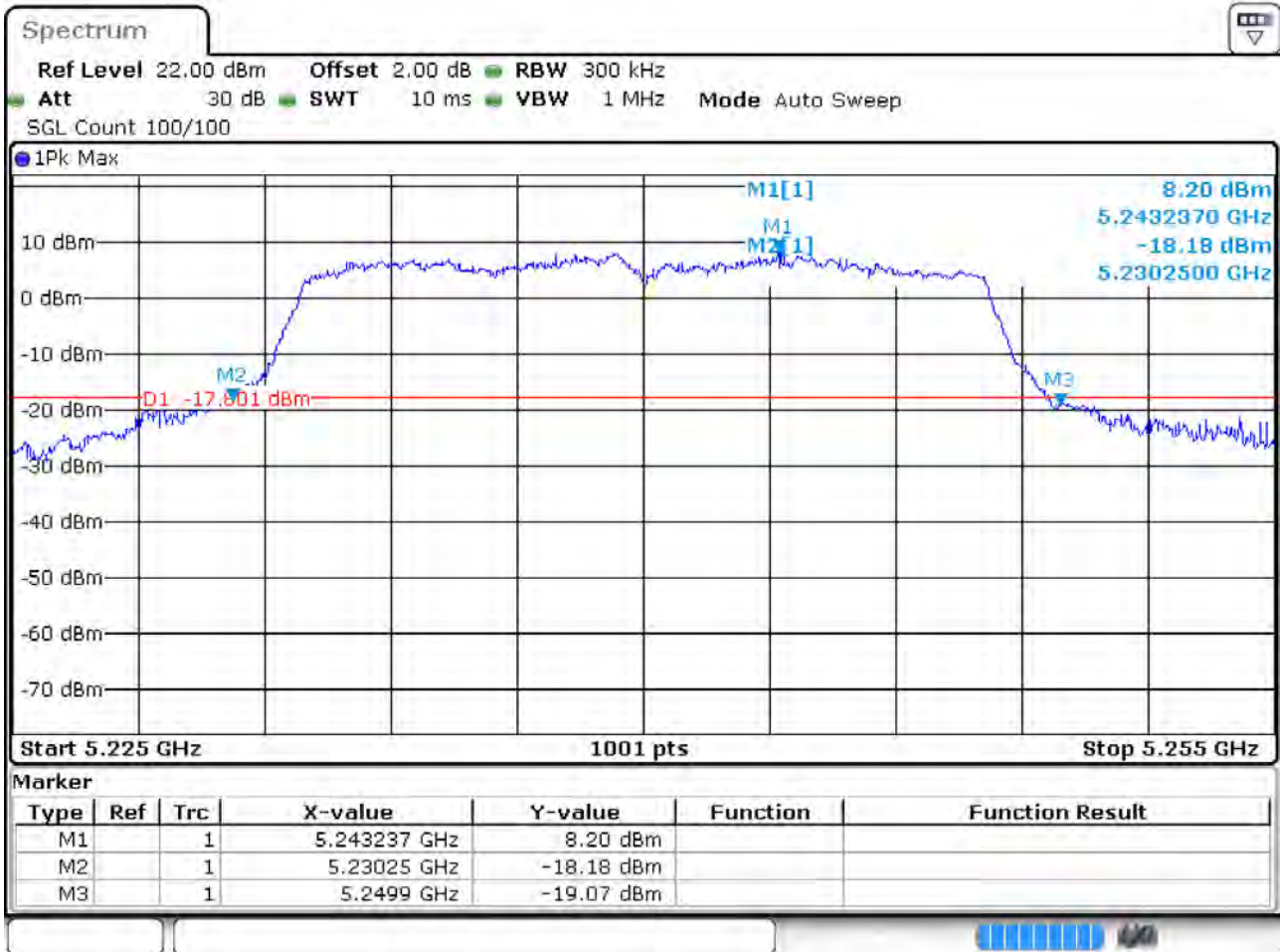


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4.5.1.3 11A20\_CDD\_48 ANT 1



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**4.5.1.4 11A20\_CDD\_48 ANT 2**

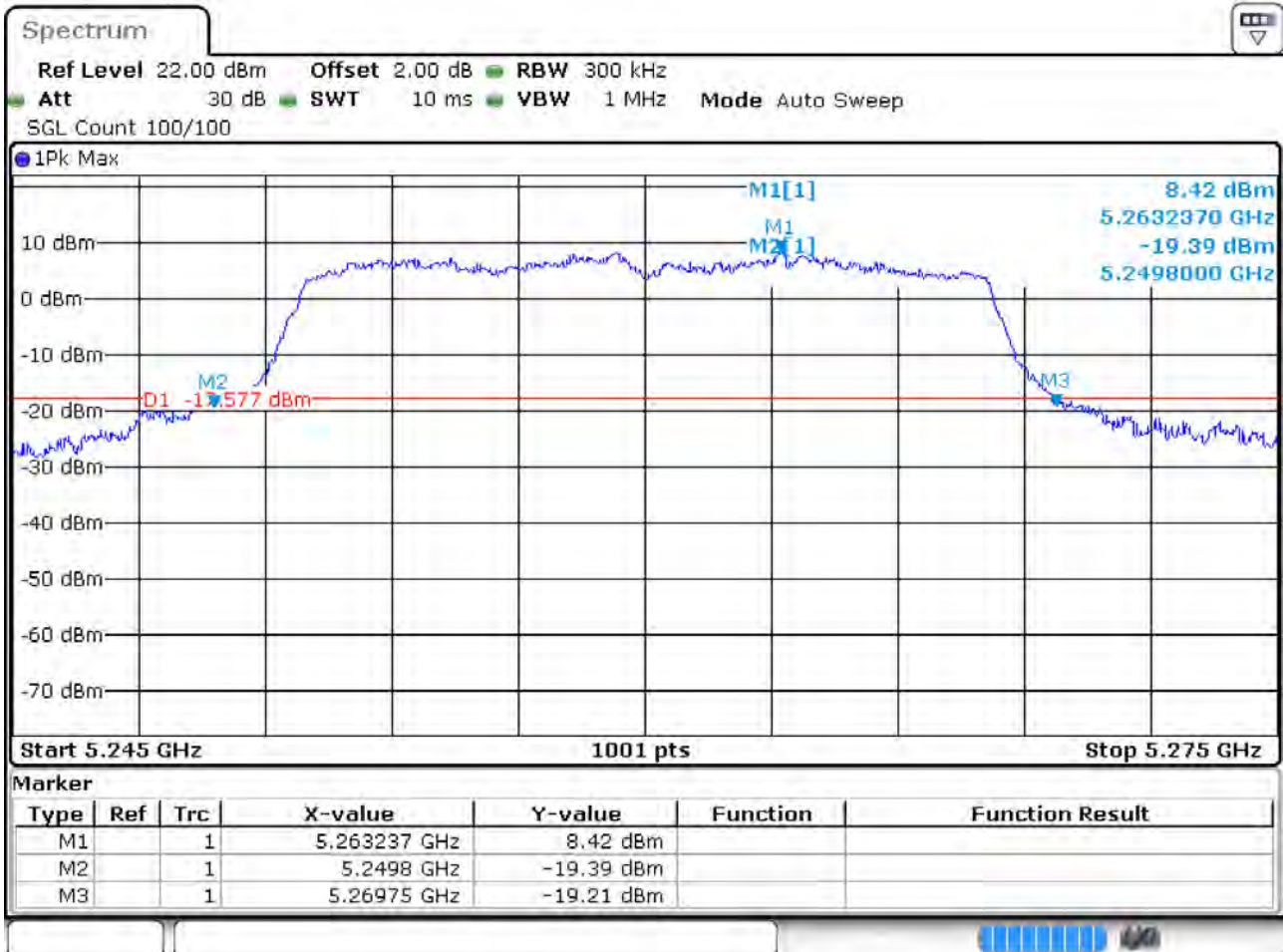


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4.5.1.5 11A20\_CDD\_52 ANT 1

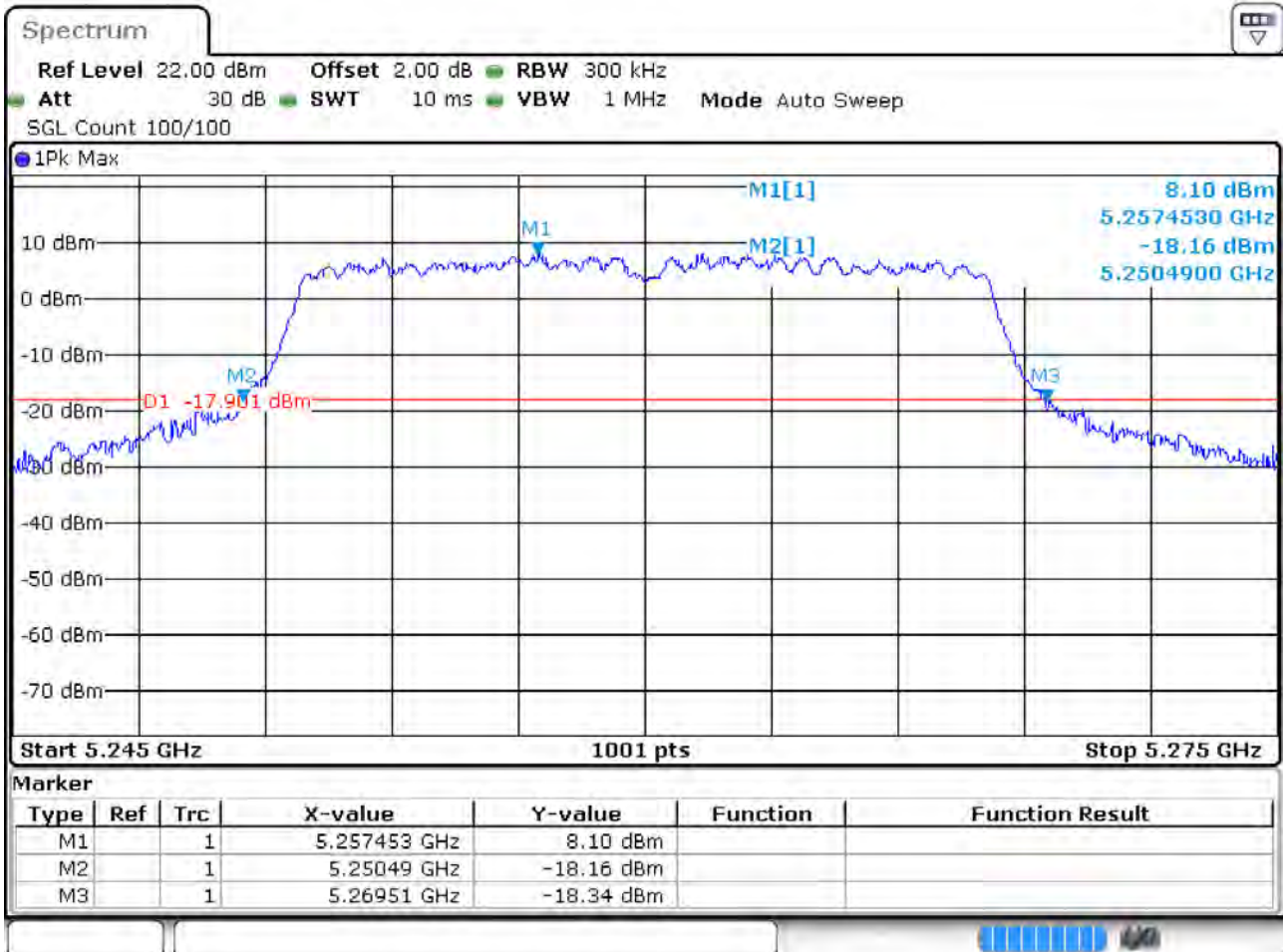


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4.5.1.6 11A20\_CDD\_52 ANT 2

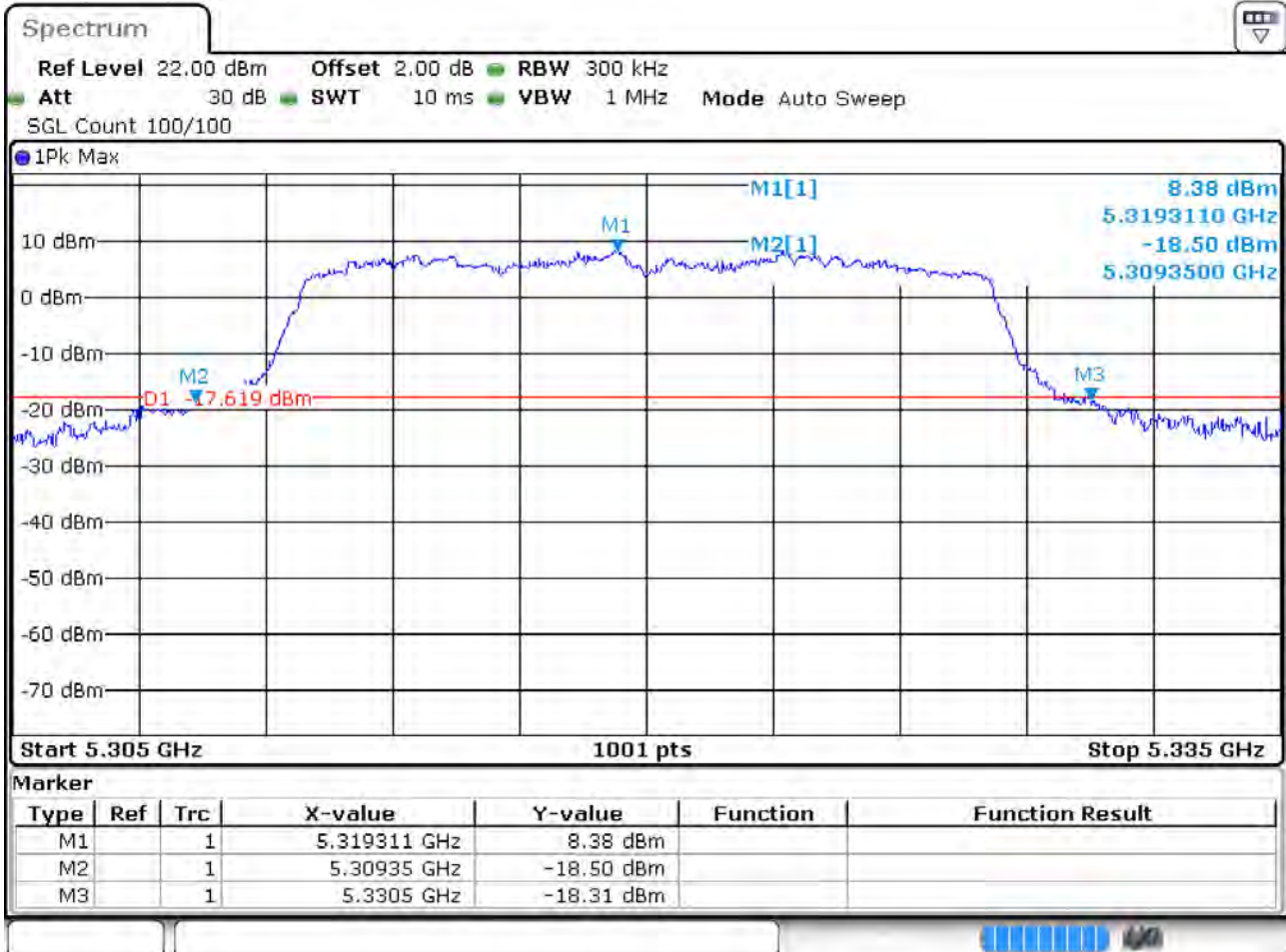


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4.5.1.7 11A20\_CDD\_64 ANT 1



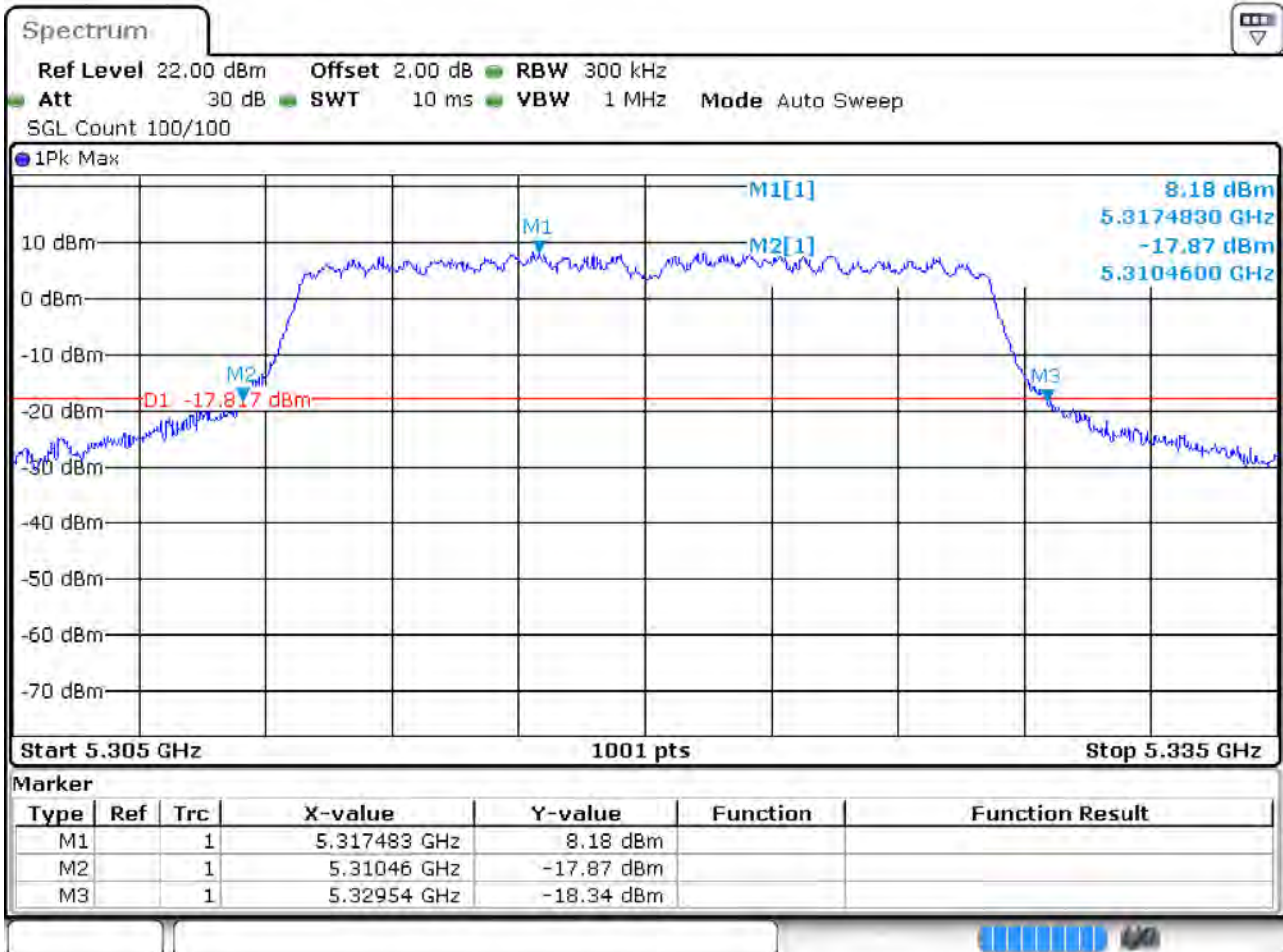
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4.5.1.8 11A20\_CDD\_64 ANT 2



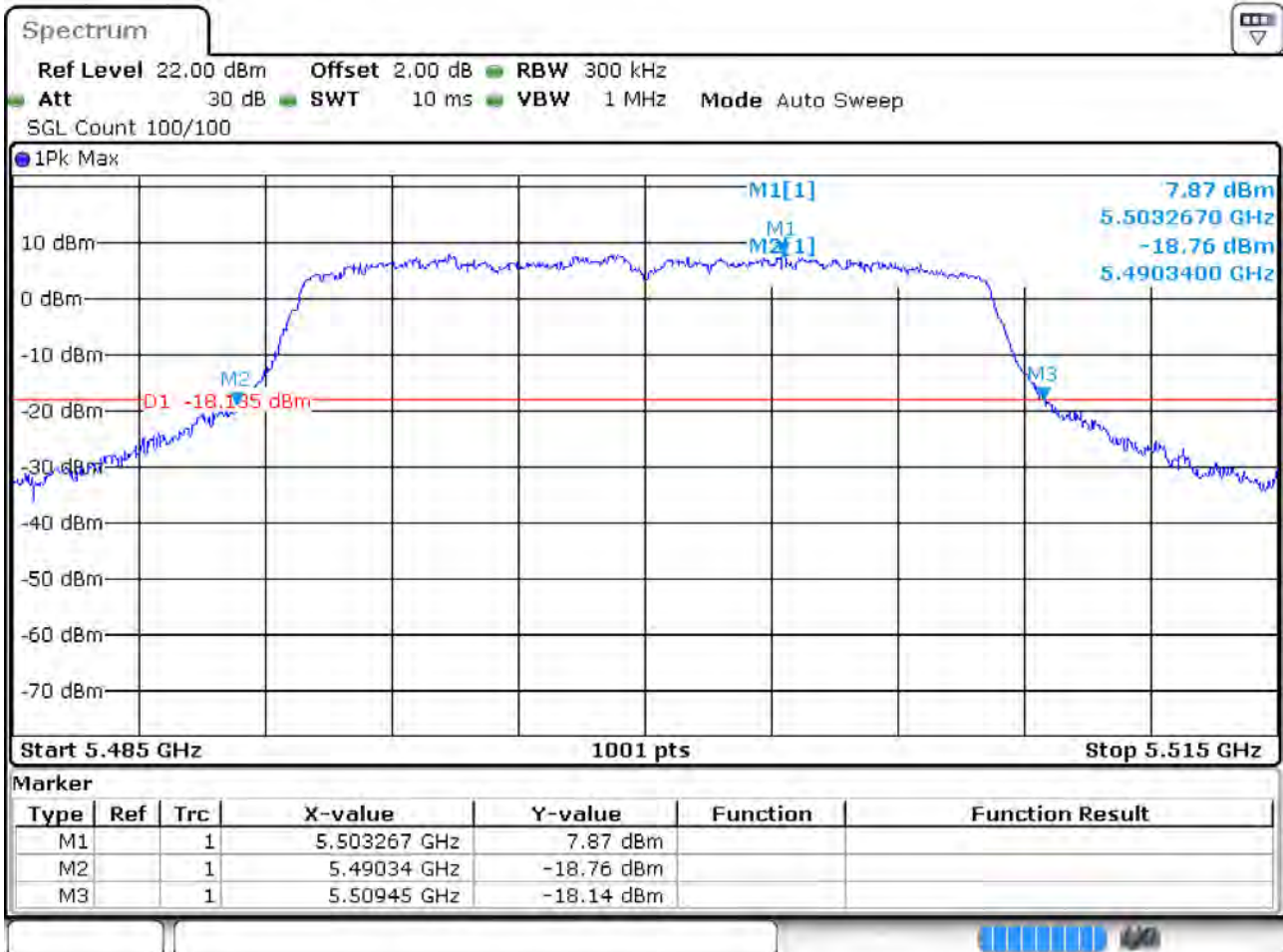
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**4.5.1.9 11A20\_CDD\_100 ANT 1**

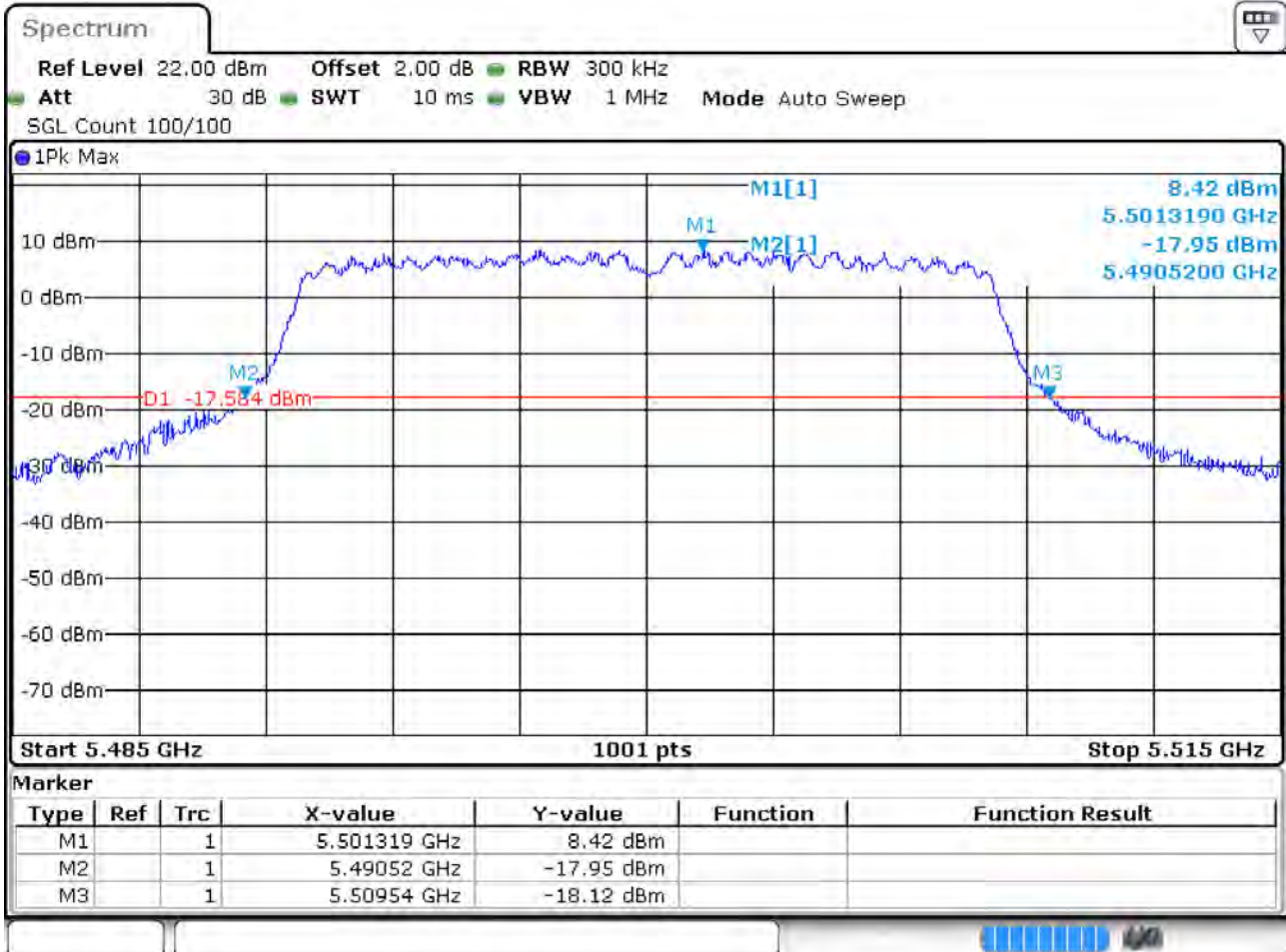


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4.5.1.10 11A20\_CDD\_100 ANT 2



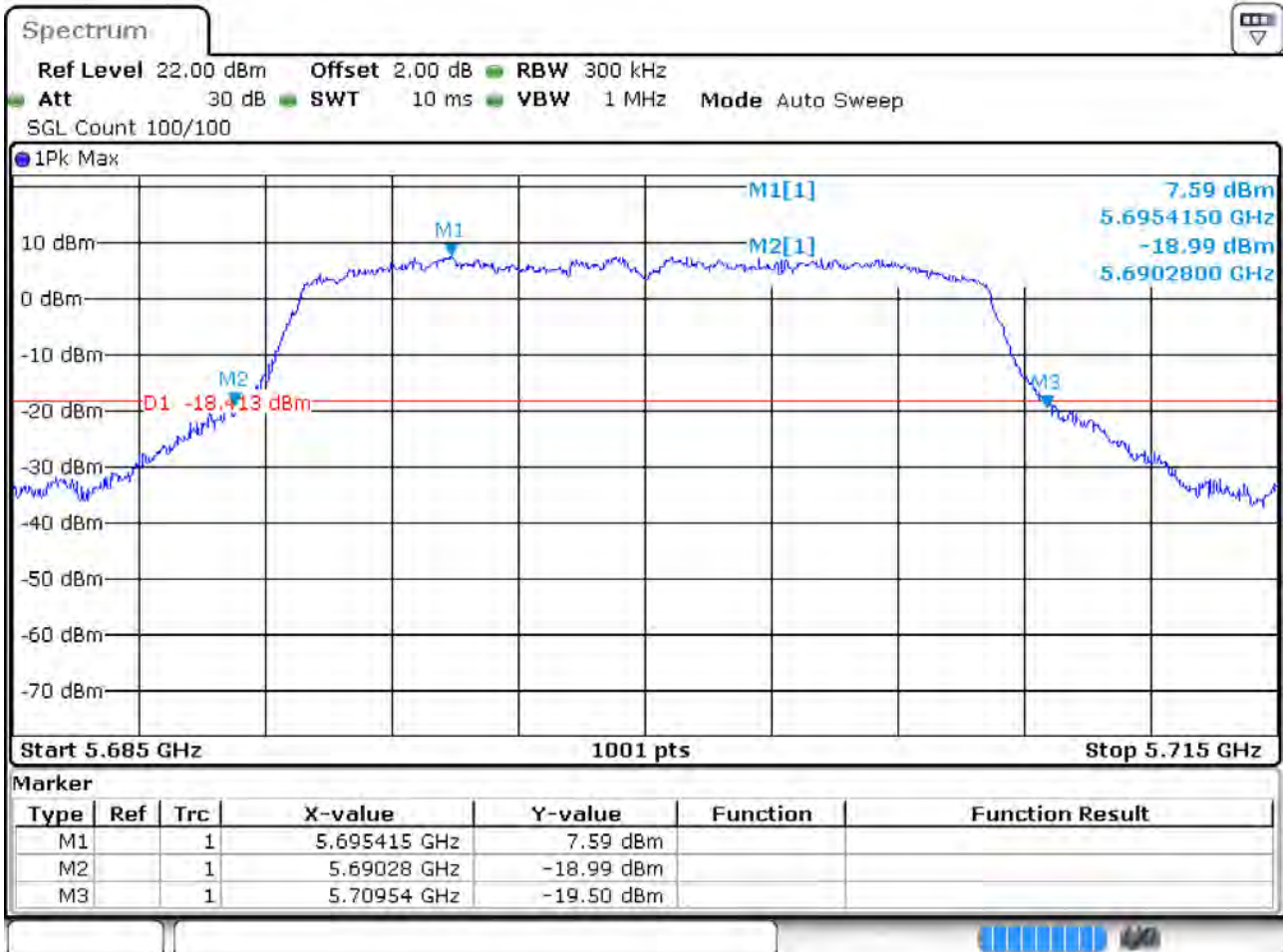
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4.5.1.11 11A20\_CDD\_140 ANT 1



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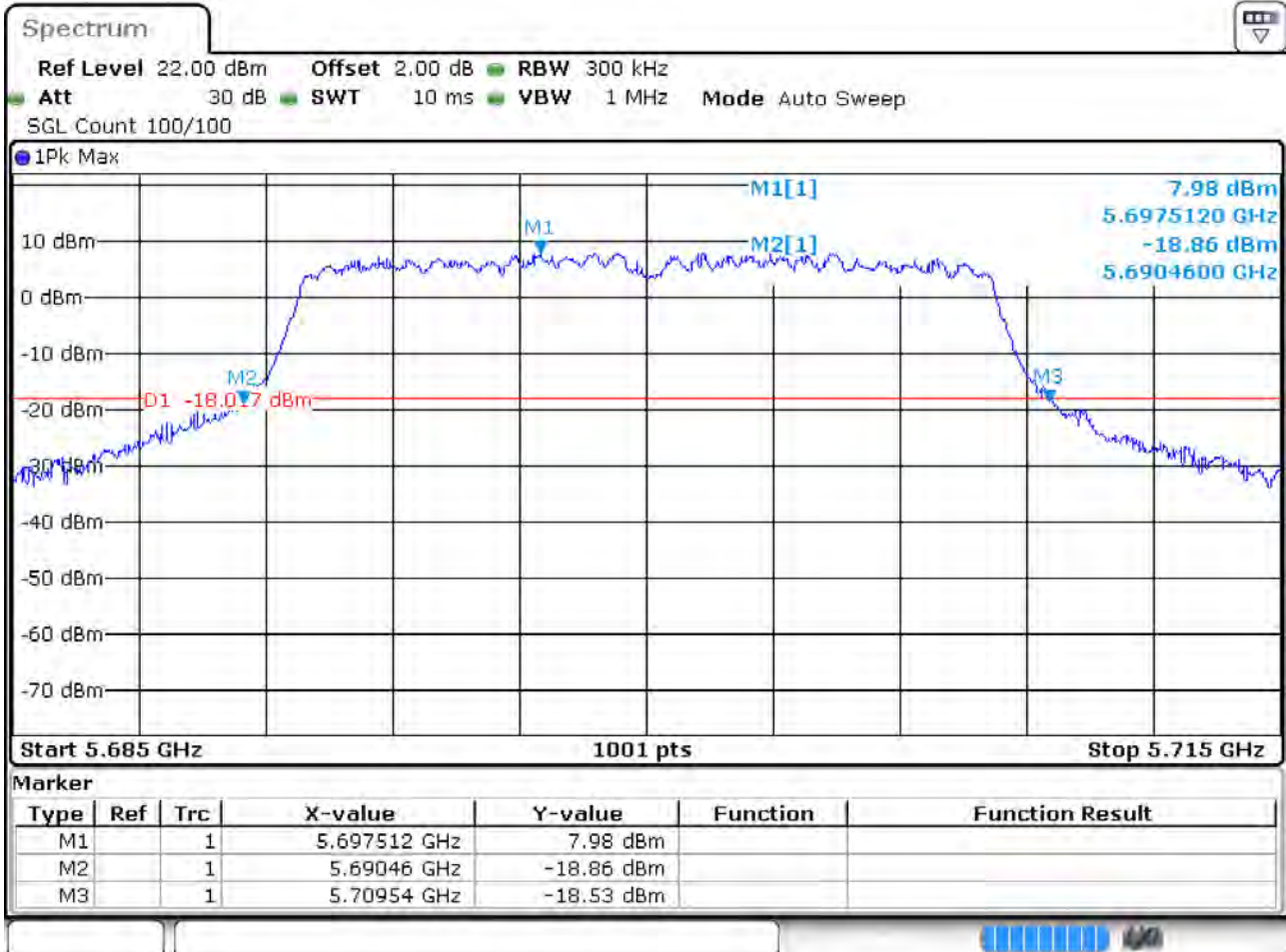


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4.5.1.12 11A20\_CDD\_140 ANT 2



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4.5.1.13 11N20MIMO\_36 ANT 1

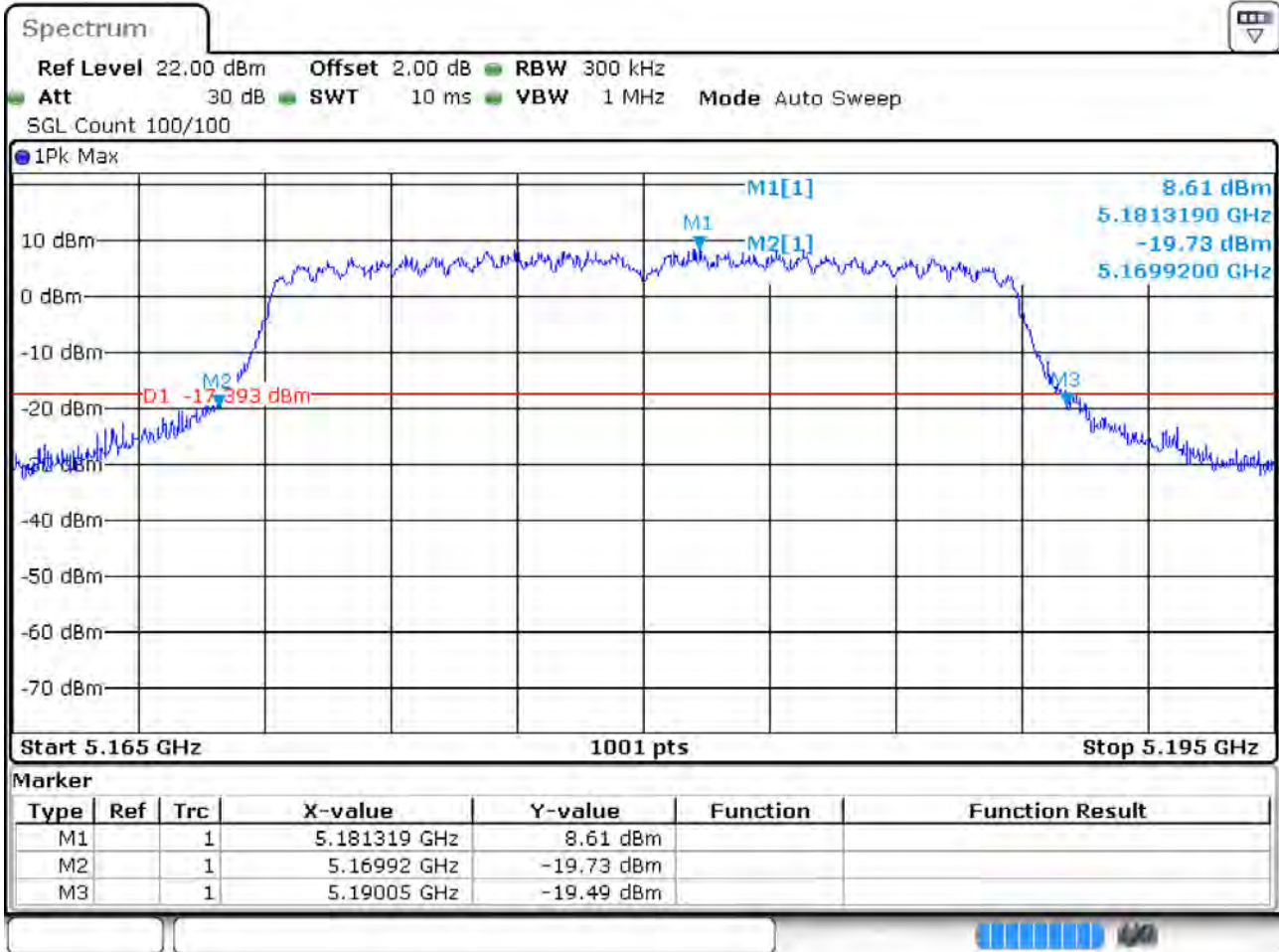


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4.5.1.14 11N20MIMO\_36 ANT 2

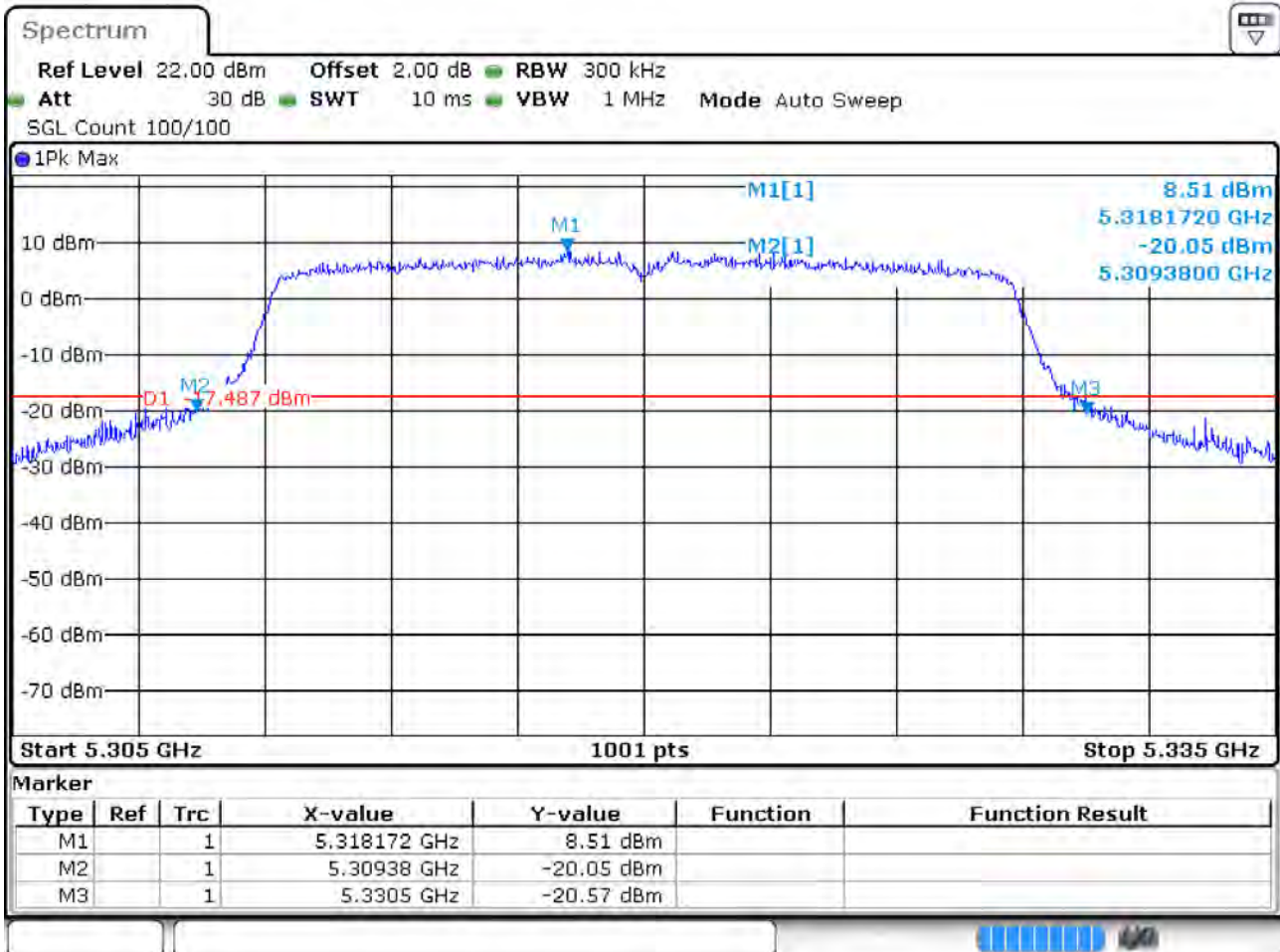


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4.5.1.15 11N20MIMO\_48 ANT 1



Date: 9 APR 2020 04:26:18



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**4.5.1.16 11N20MIMO\_48 ANT 2**



Date: 10.APR.2020 02:37:44



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4.5.1.17 11N20MIMO\_52 ANT 1

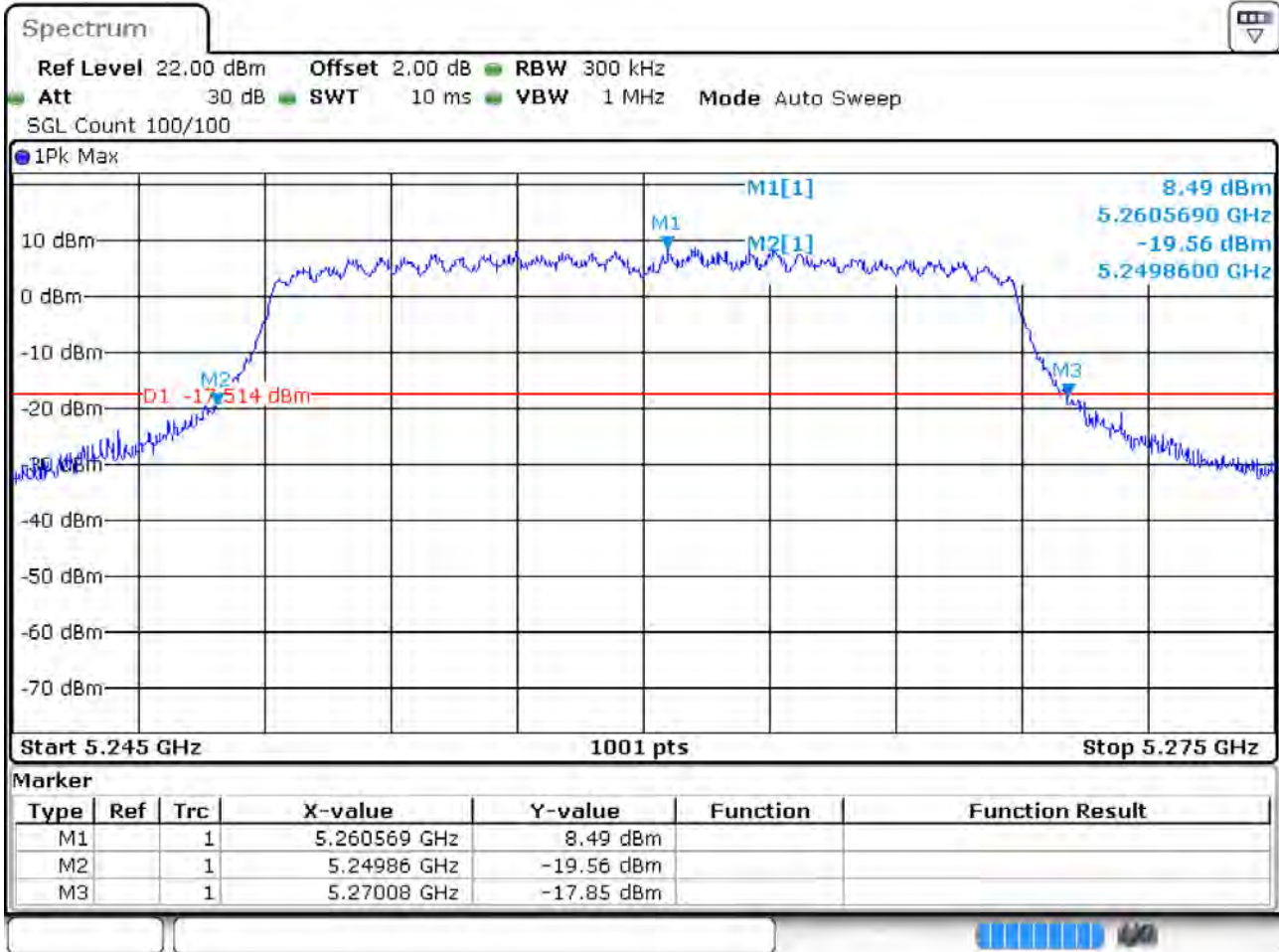


Date: 9 APR 2020 04:24:07



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4.5.1.18 11N20MIMO\_52 ANT 2

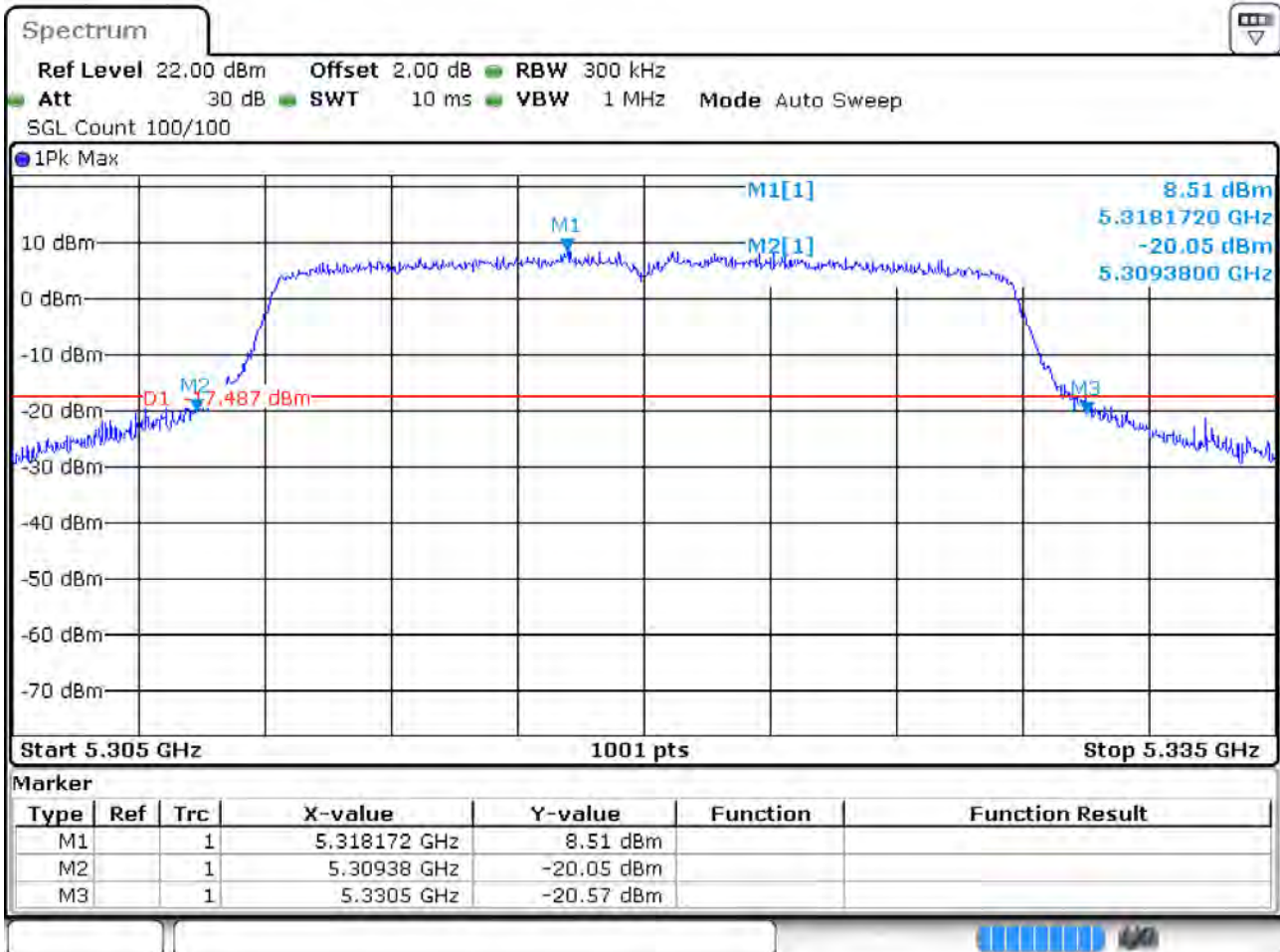


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4.5.1.19 11N20MIMO\_64 ANT 1

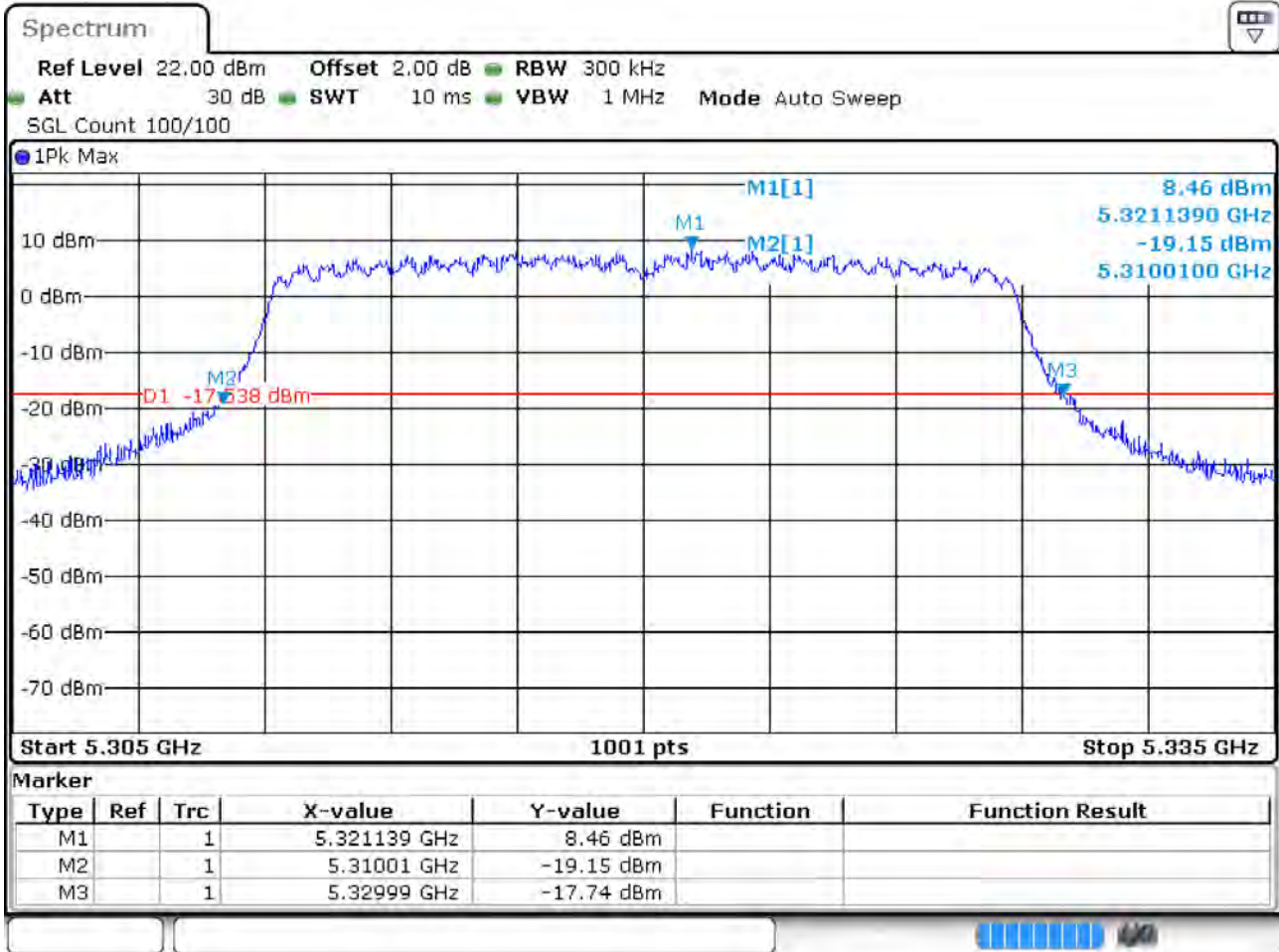


Date: 9 APR 2020 04:26:18



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4.5.1.20 11N20MIMO\_64 ANT 2



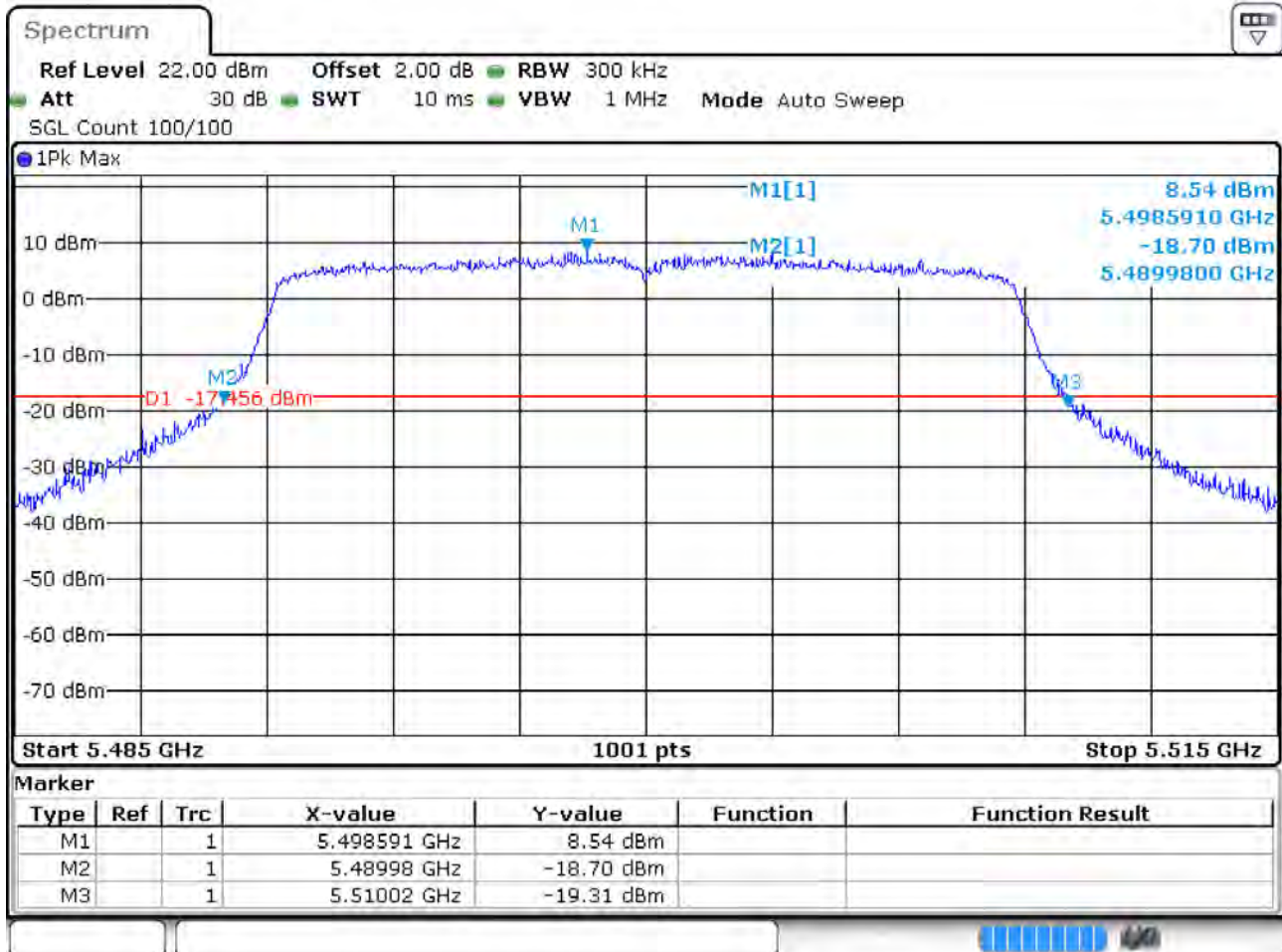
Date: 10.APR.2020 02:39:16



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**4.5.1.21 11N20MIMO\_100 ANT 1**

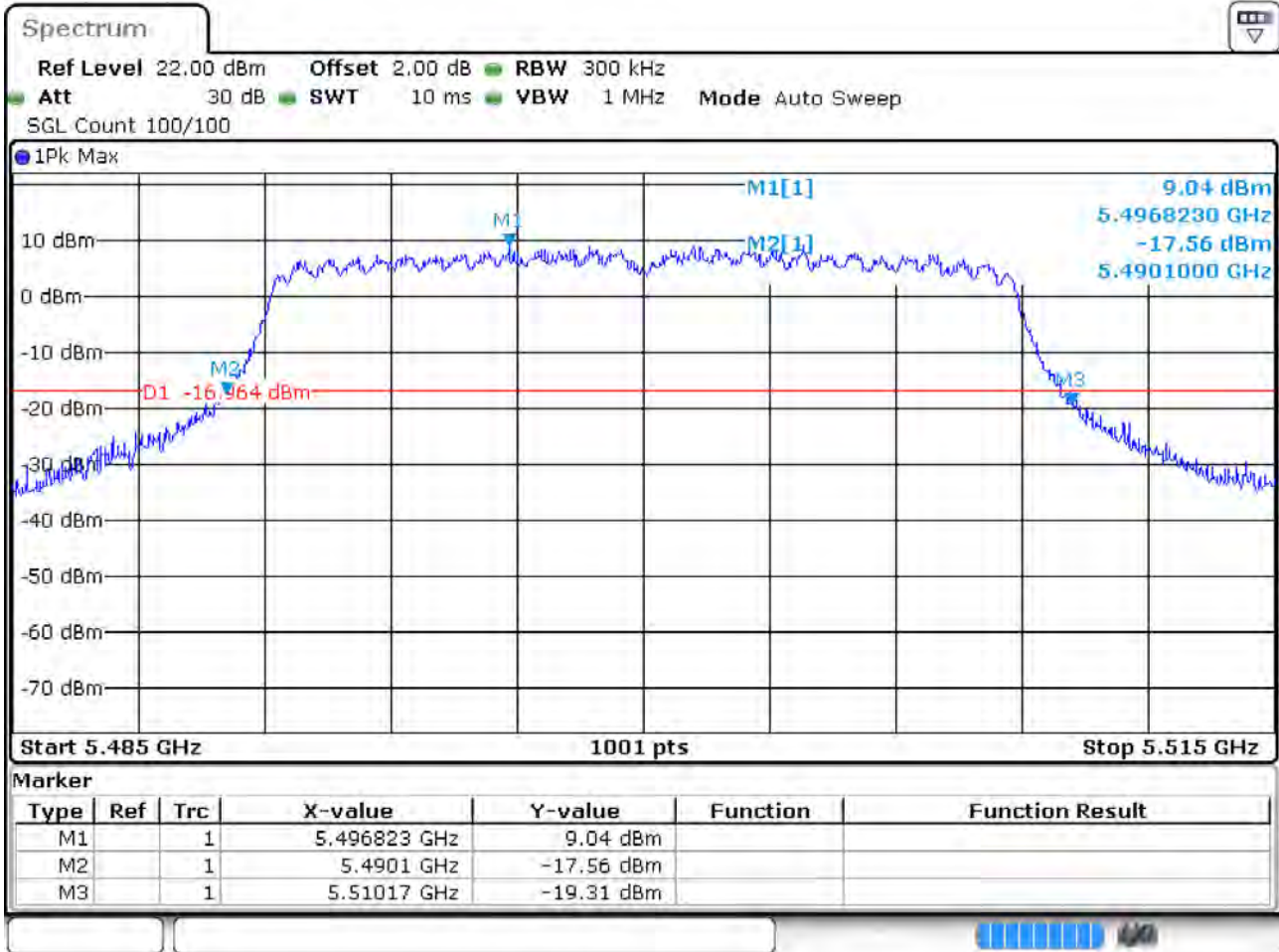


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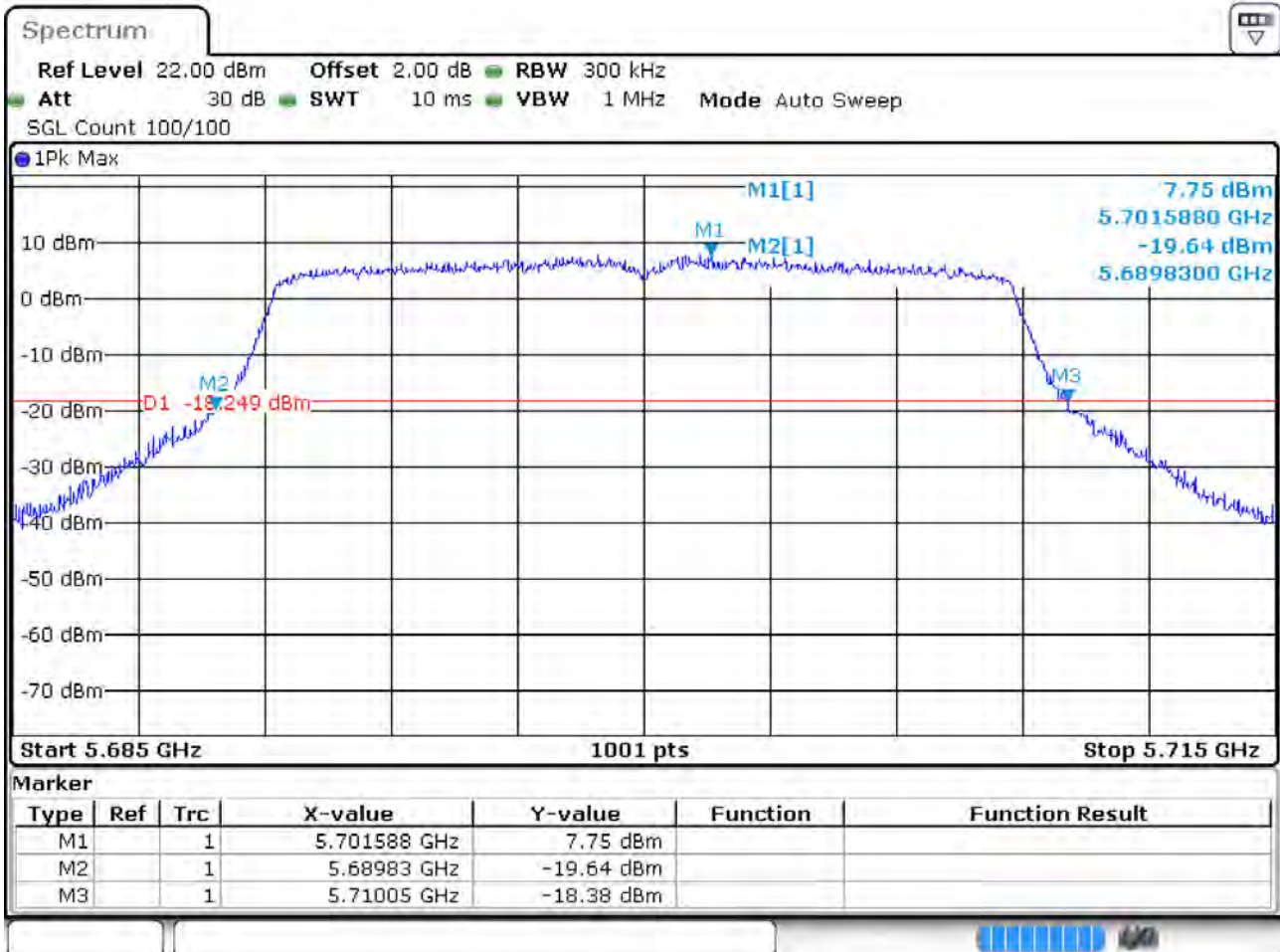
4.5.1.22 11N20MIMO\_100 ANT 2



Date: 9.APR.2020 07:37:54



**4.5.1.23 11N20MIMO\_140 ANT 1**



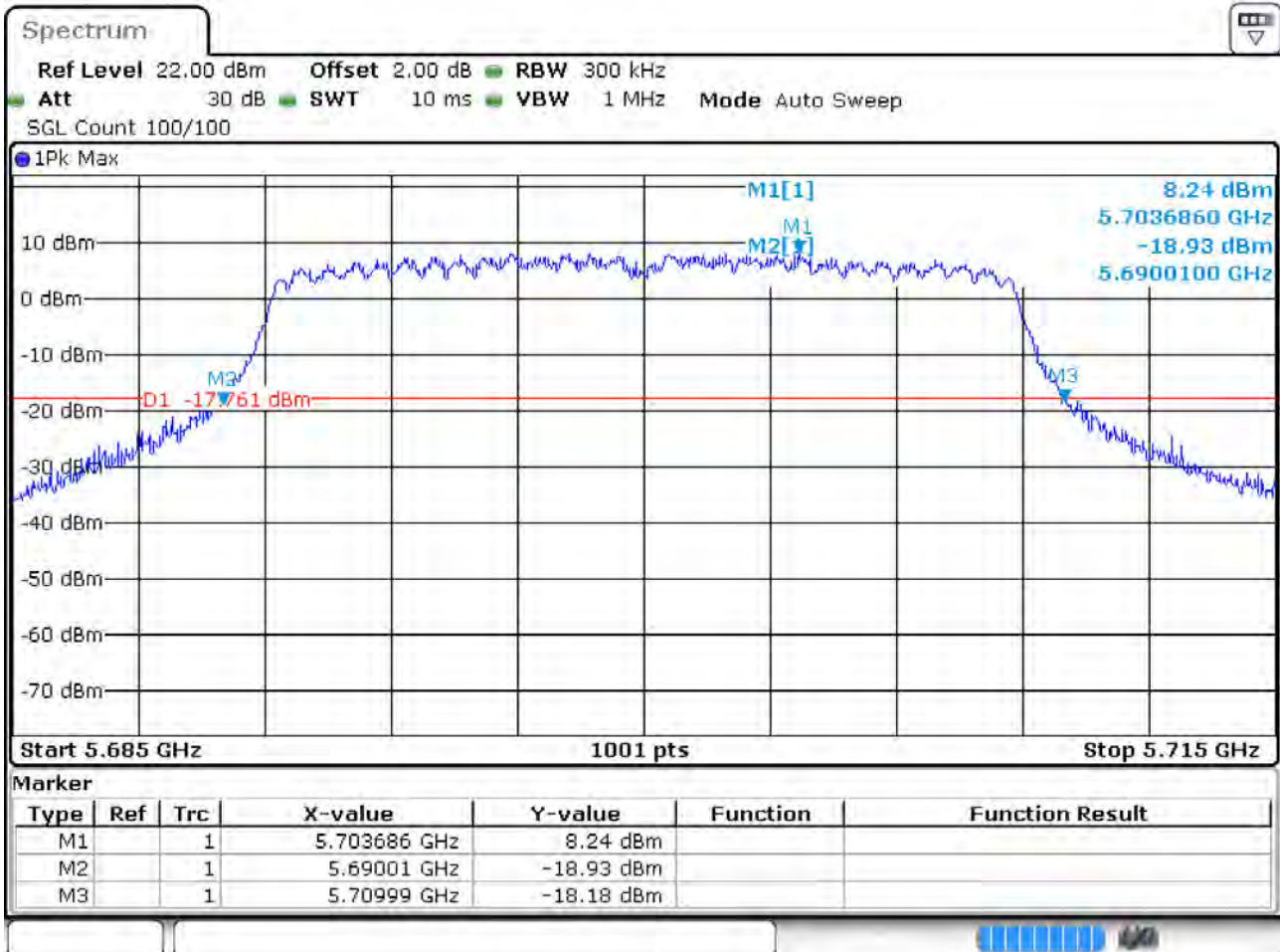
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4.5.1.24 11N20MIMO\_140 ANT 2



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**4.5.1.25 11N40MIMO\_38 ANT 1**



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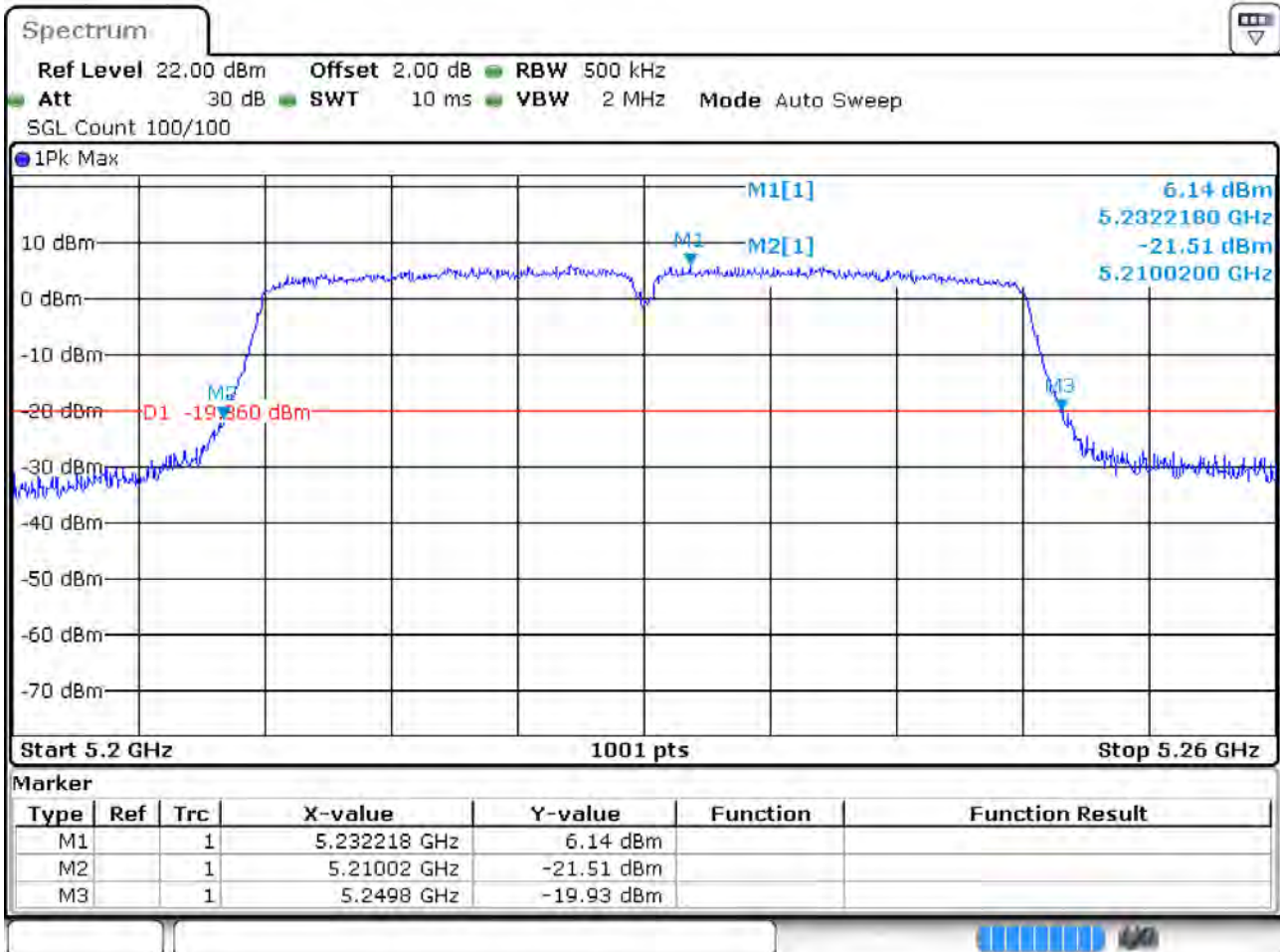
4.5.1.26 11N40MIMO\_38 ANT 2



Date: 9 APR 2020 08:00:29



4.5.1.27 11N40MIMO\_46 ANT 1



Date: 9 APR 2020 04:46:52

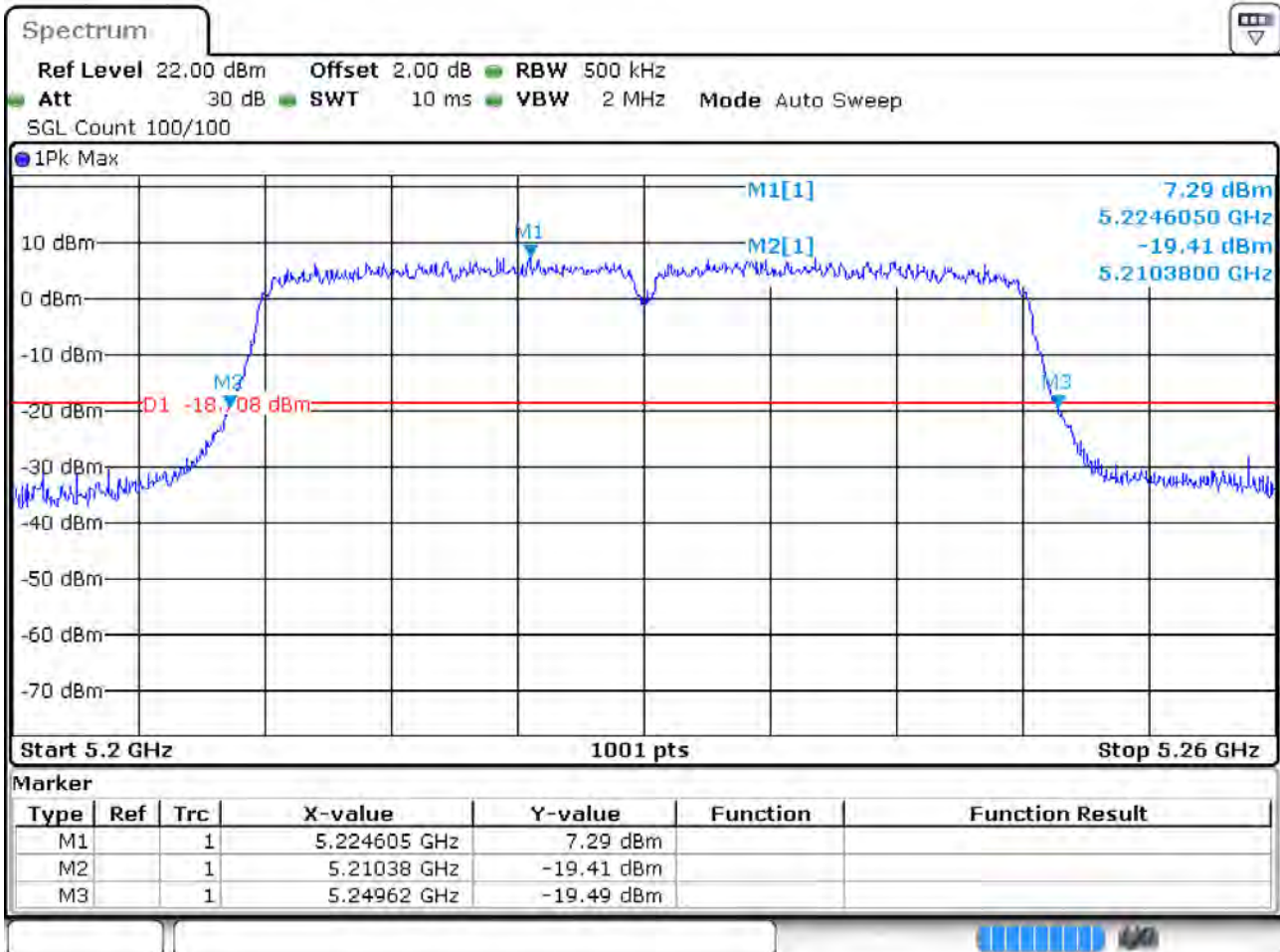


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4.5.1.28 11N40MIMO\_46 ANT 2

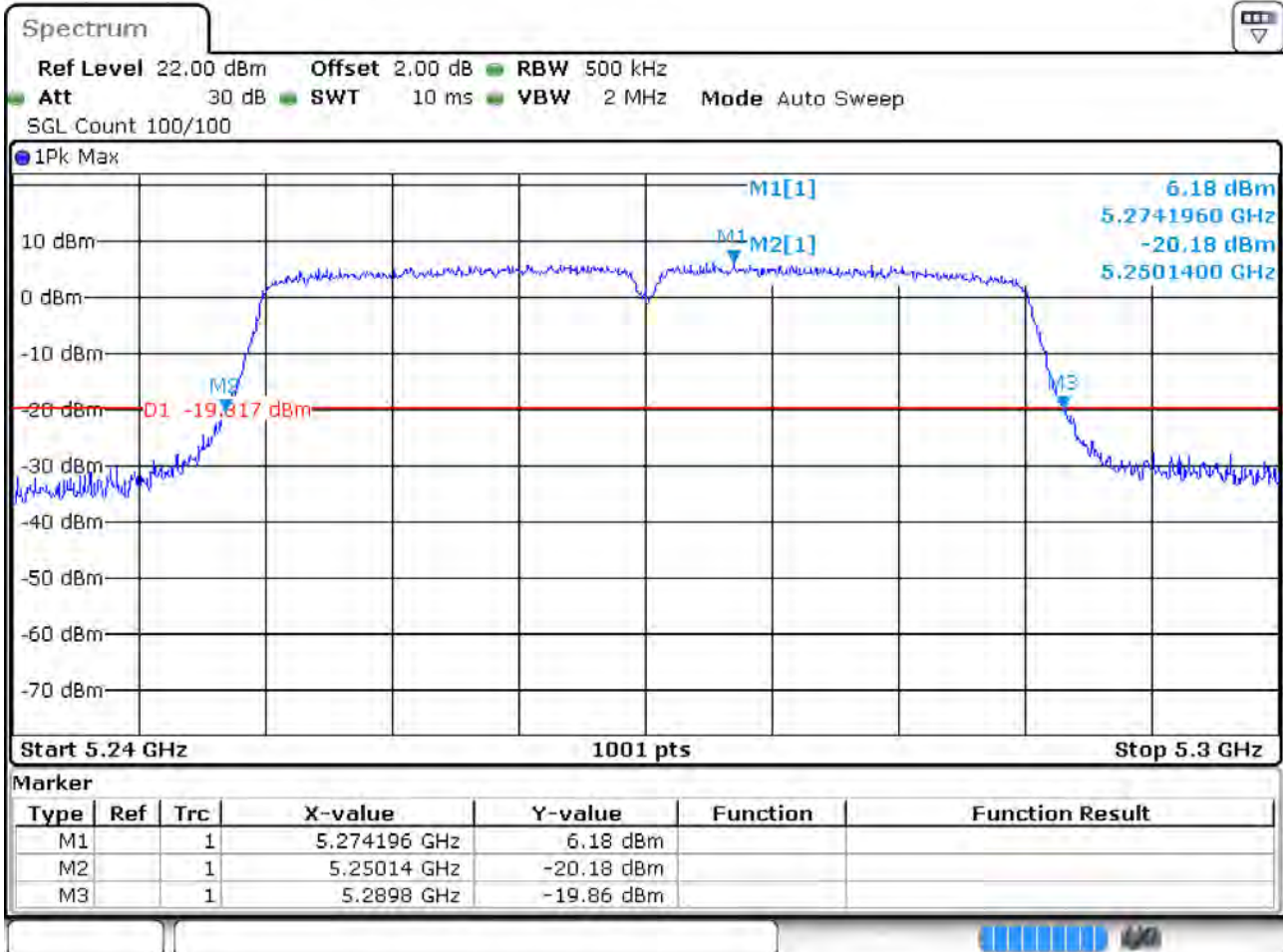


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4.5.1.29 11N40MIMO\_54 ANT 1

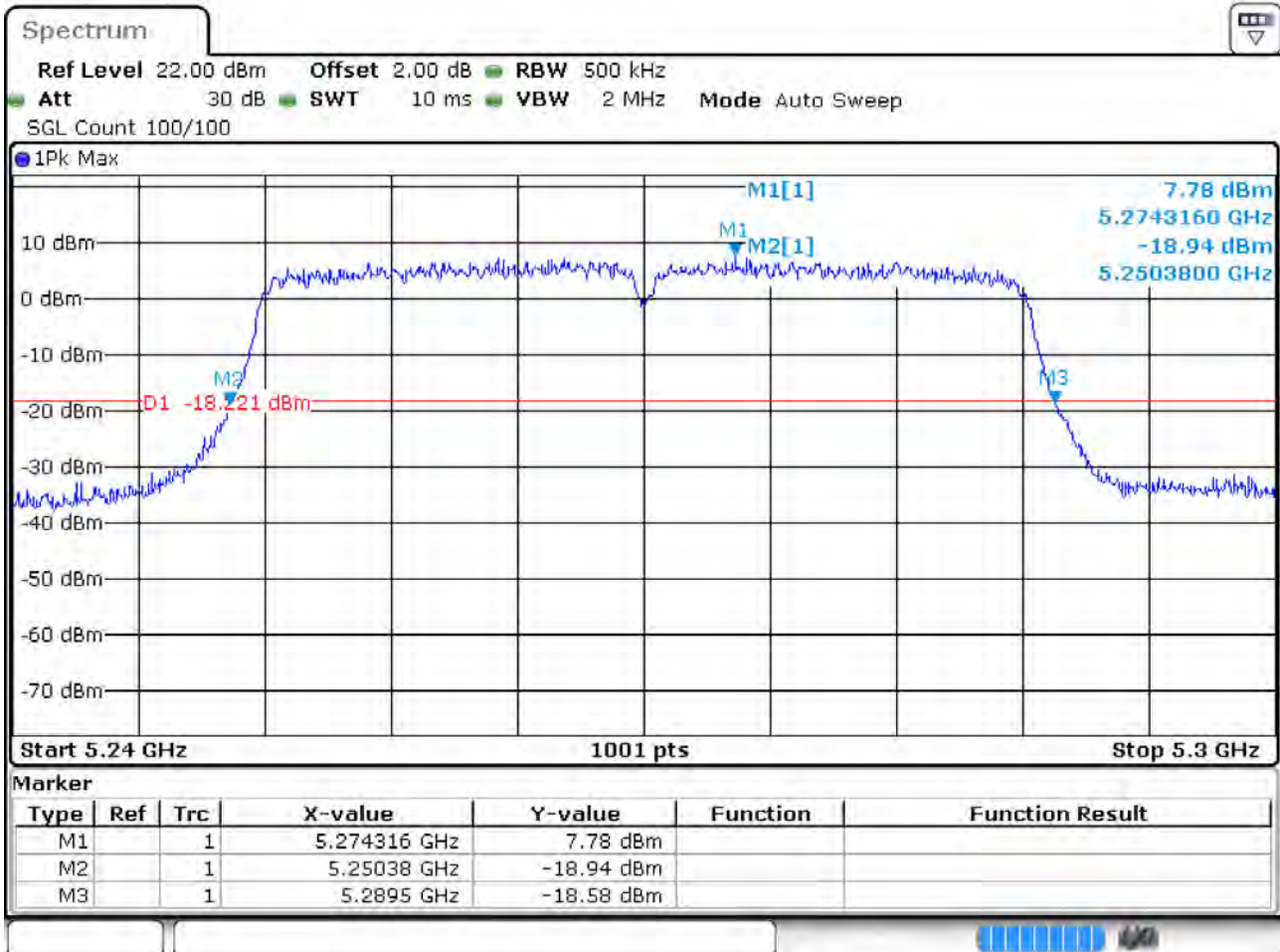


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4.5.1.30 11N40MIMO\_54 ANT 2

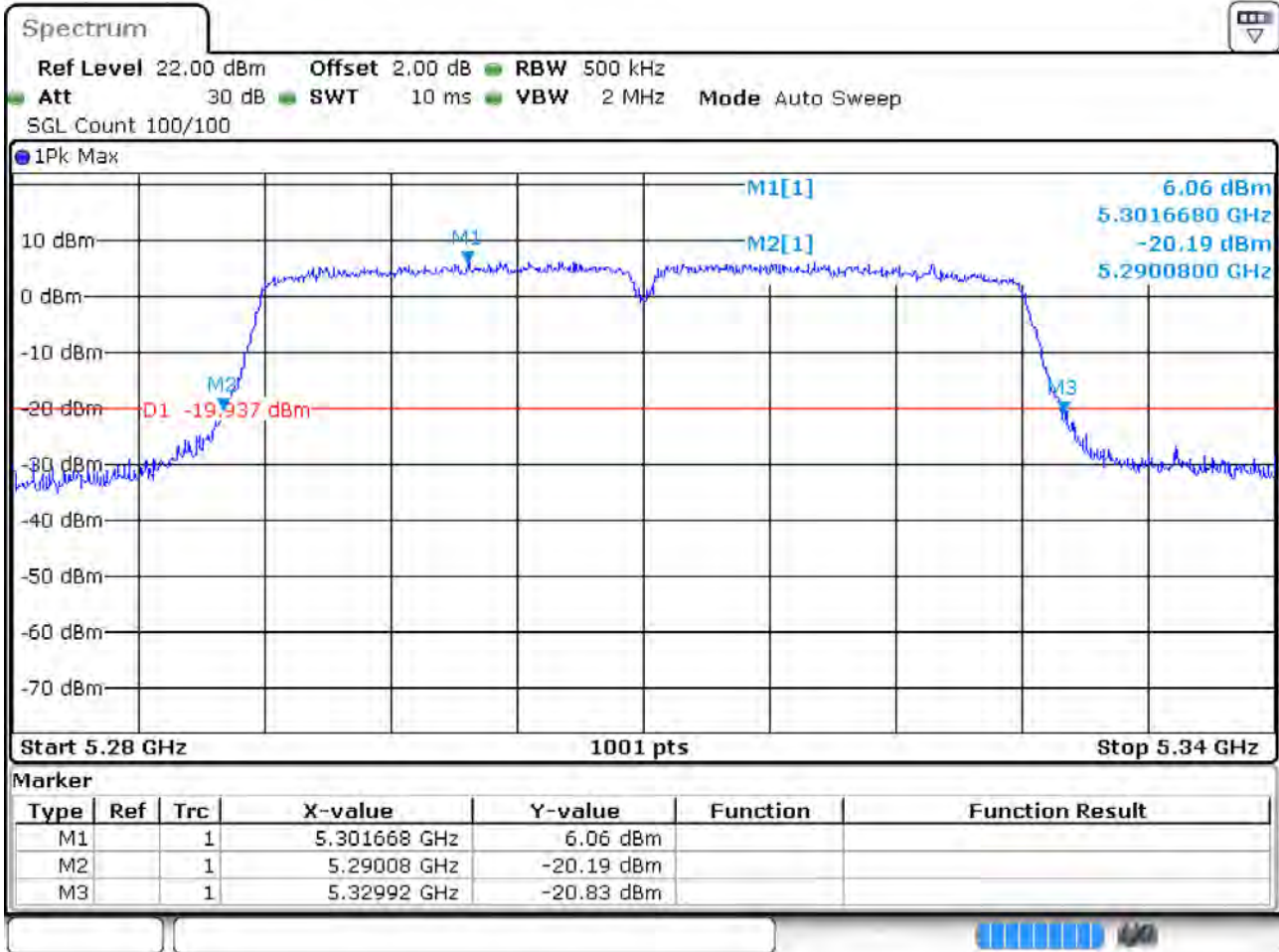


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**4.5.1.31 11N40MIMO\_62 ANT 1**



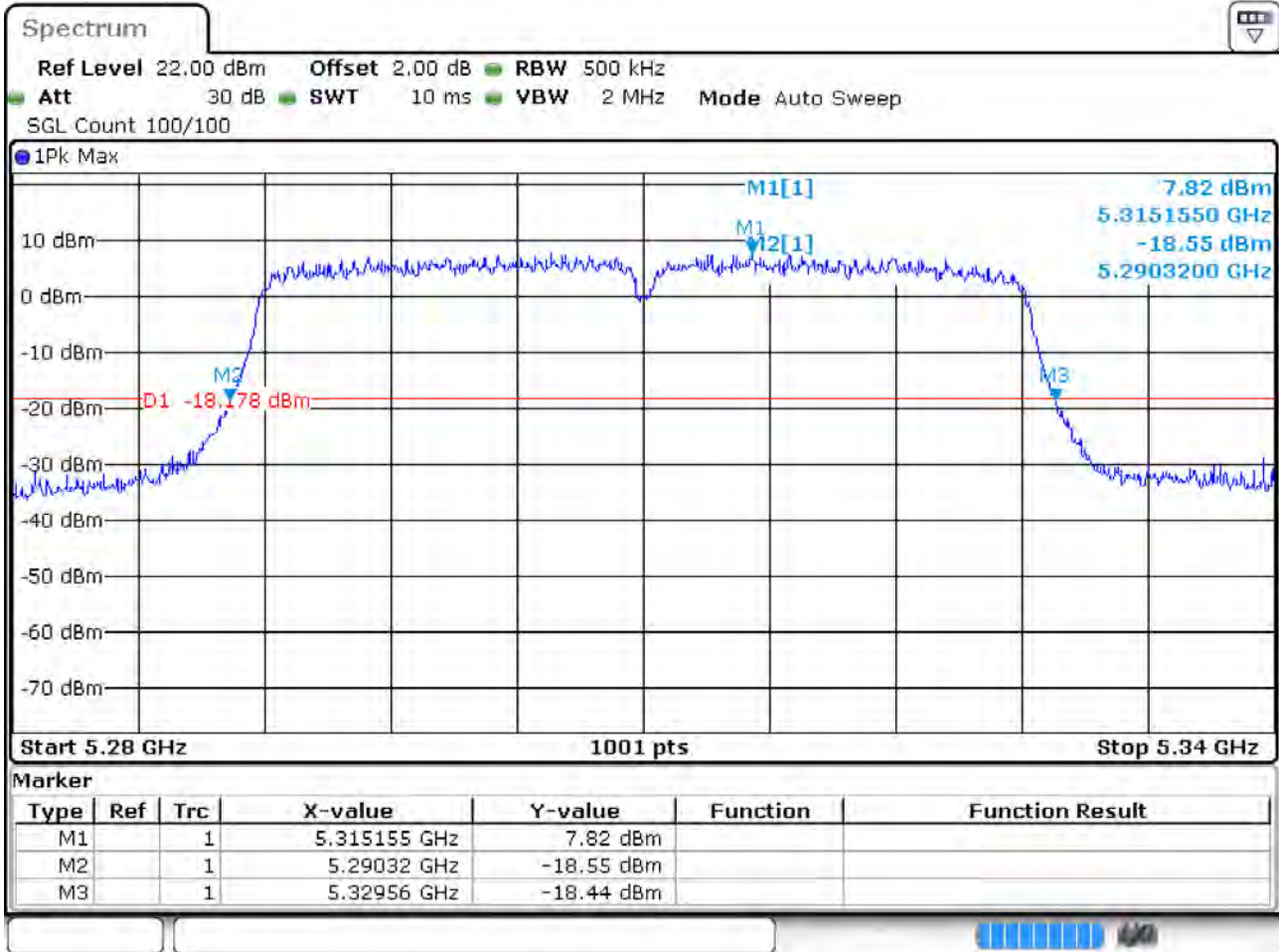
Date: 9 APR 2020 04:49:41



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4.5.1.32 11N40MIMO\_62 ANT 2



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4.5.1.33 11N40MIMO\_102 ANT 1

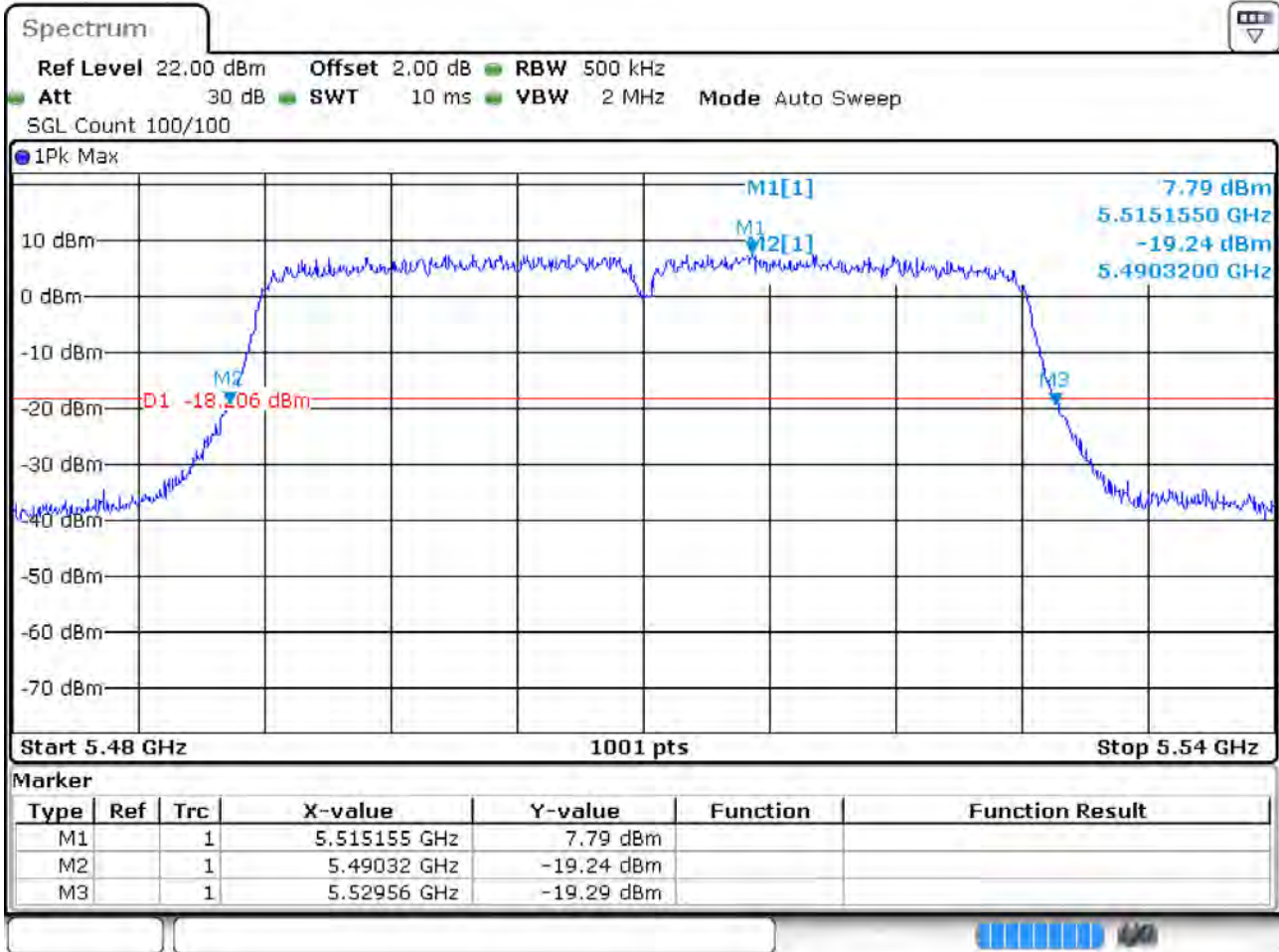


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**4.5.1.34 11N40MIMO\_102 ANT 2**

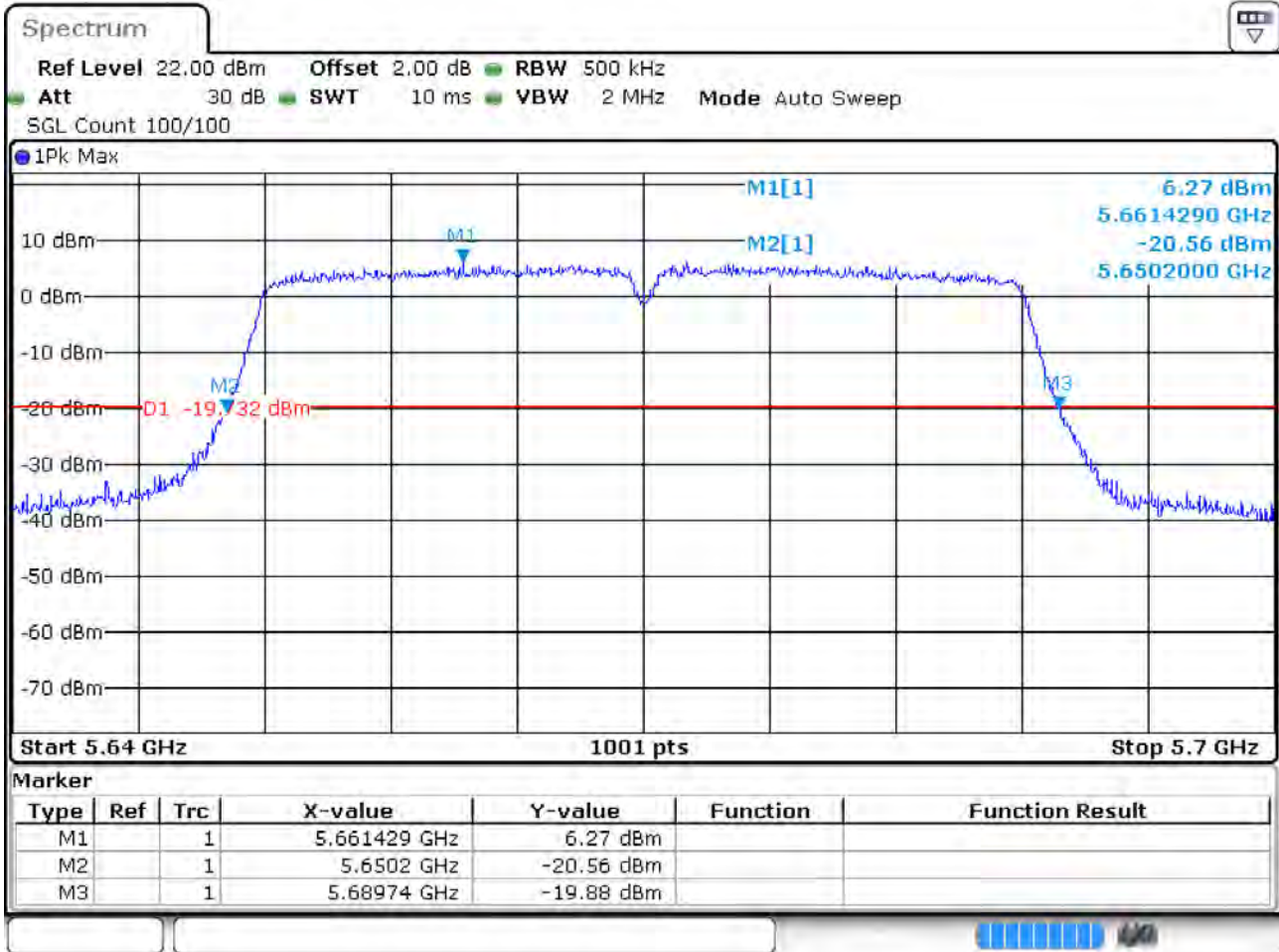


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**4.5.1.35 11N40MIMO\_134 ANT 1**

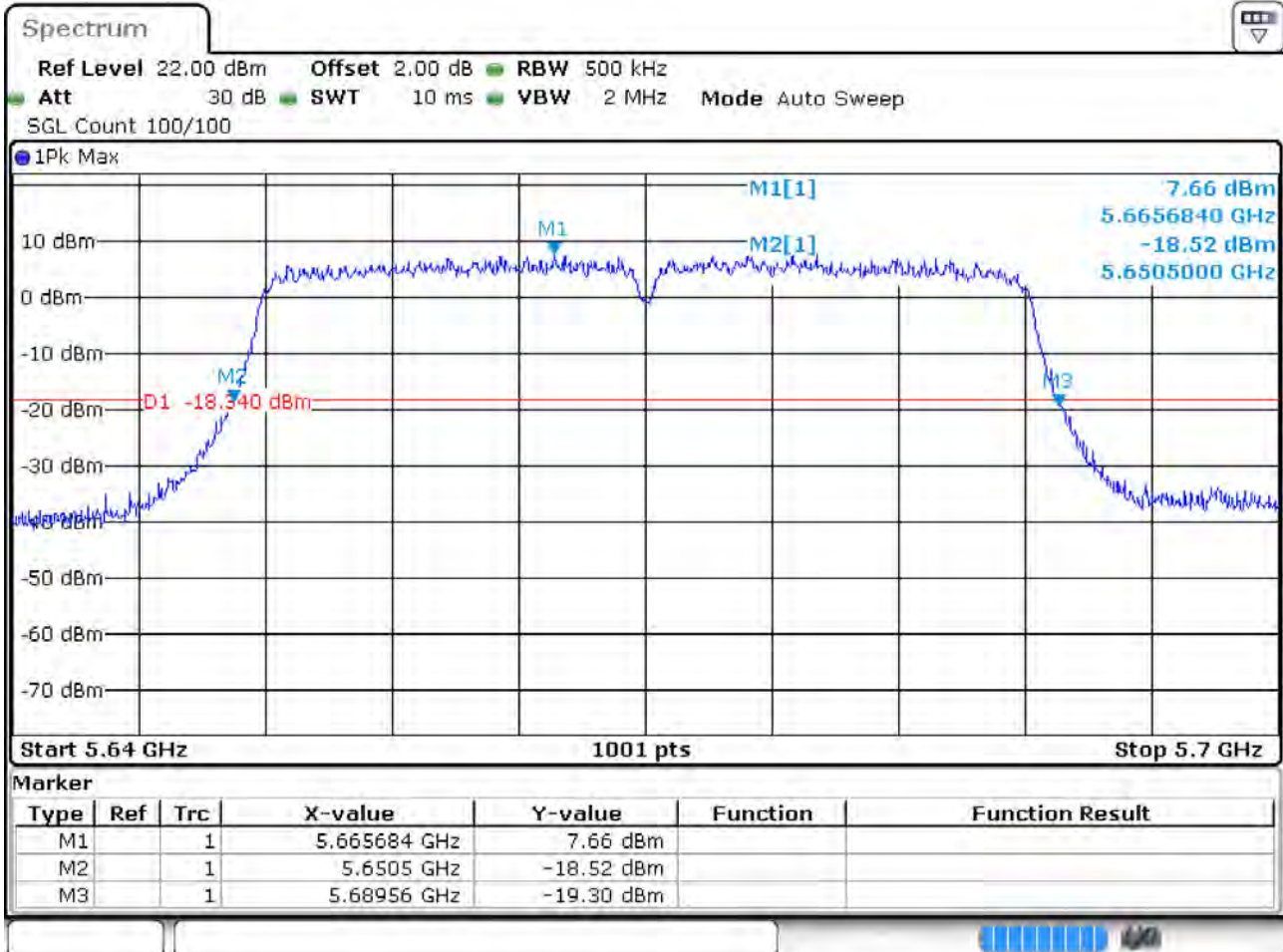


Date: 9 APR 2020 04:53:35



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4.5.1.36 11N40MIMO\_134 ANT 2



Date: 9 APR 2020 08:20:24



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**4.5.1.37 11N40MIMO\_142 ANT 1**



Date: 9 APR 2020 04:54:47

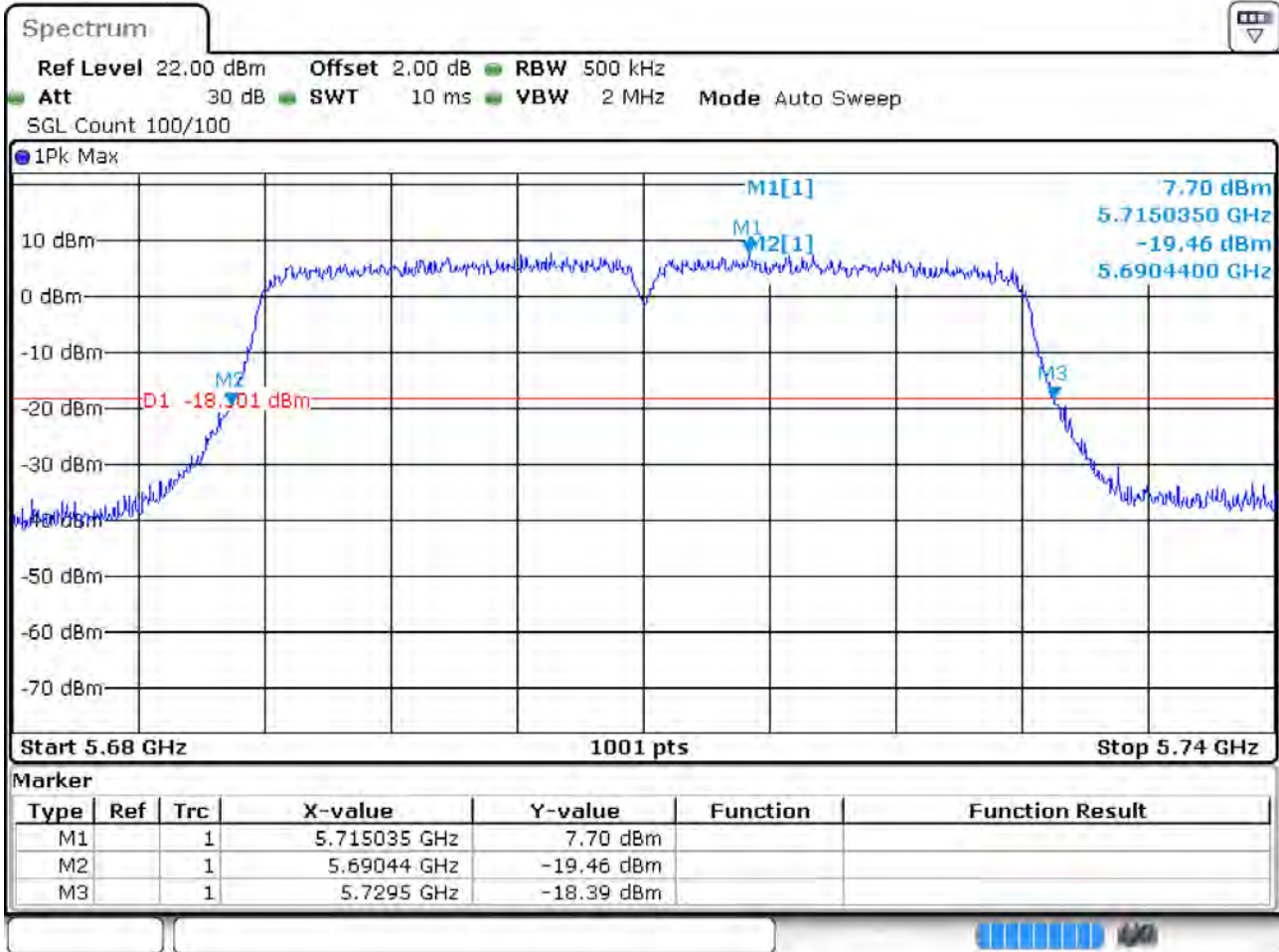


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**4.5.1.38 11N40MIMO\_142 ANT 2**



Date: 9 APR 2020 08:21:15

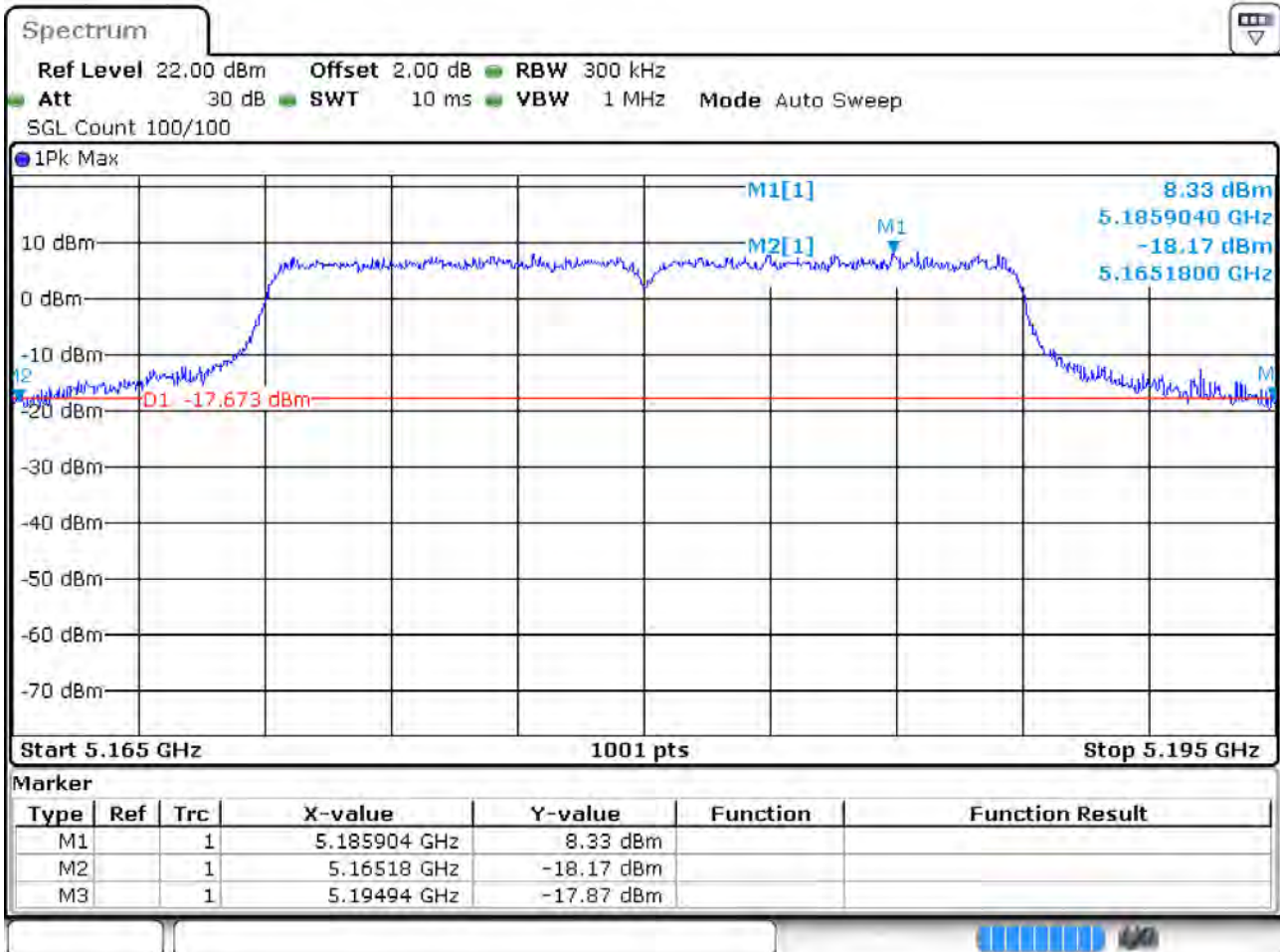


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**4.5.1.39 11AC20MIMO\_36 ANT 1**



Date: 9 APR 2020 05:04:23

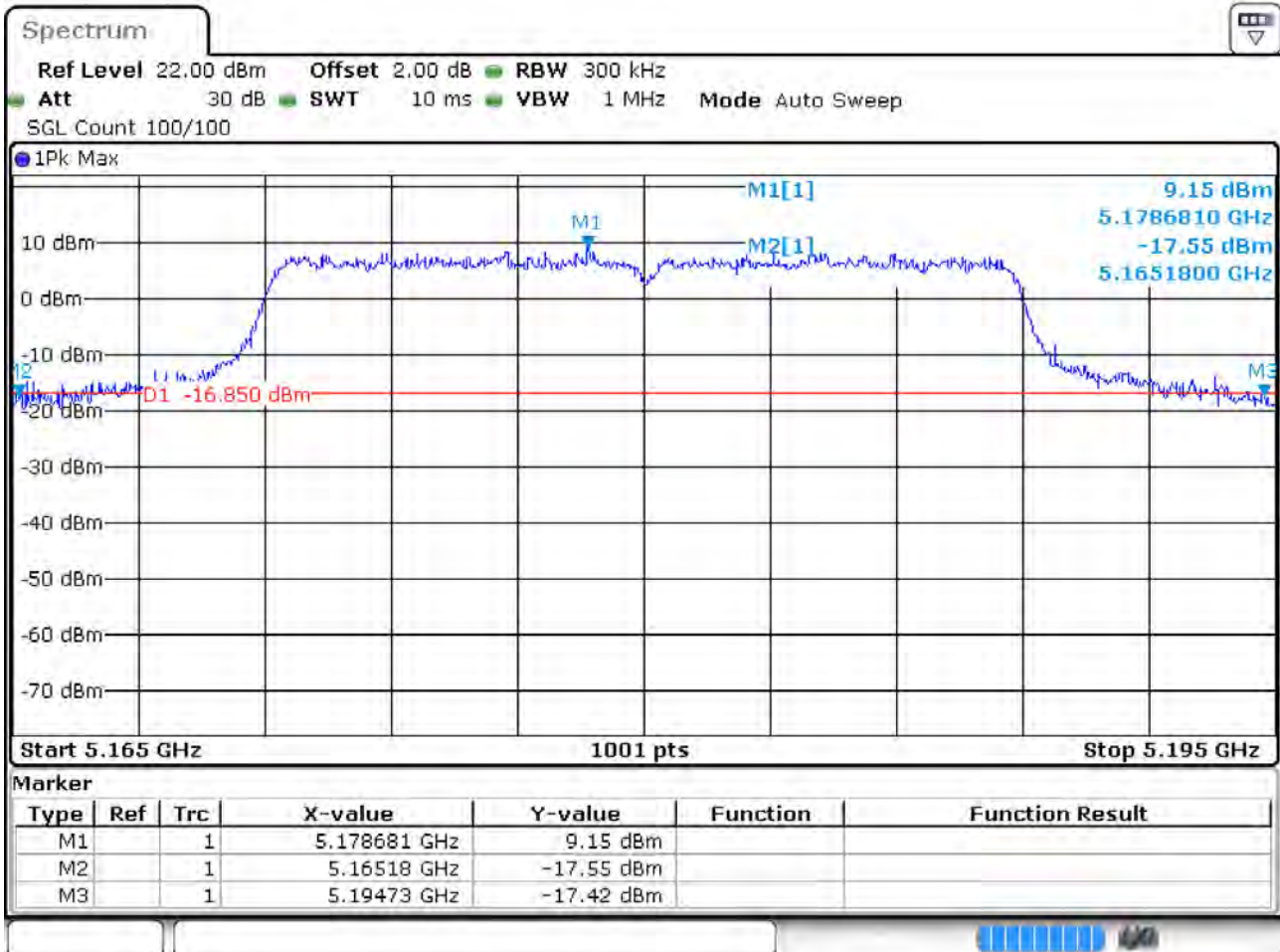


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**4.5.1.40 11AC20MIMO\_36 ANT 2**



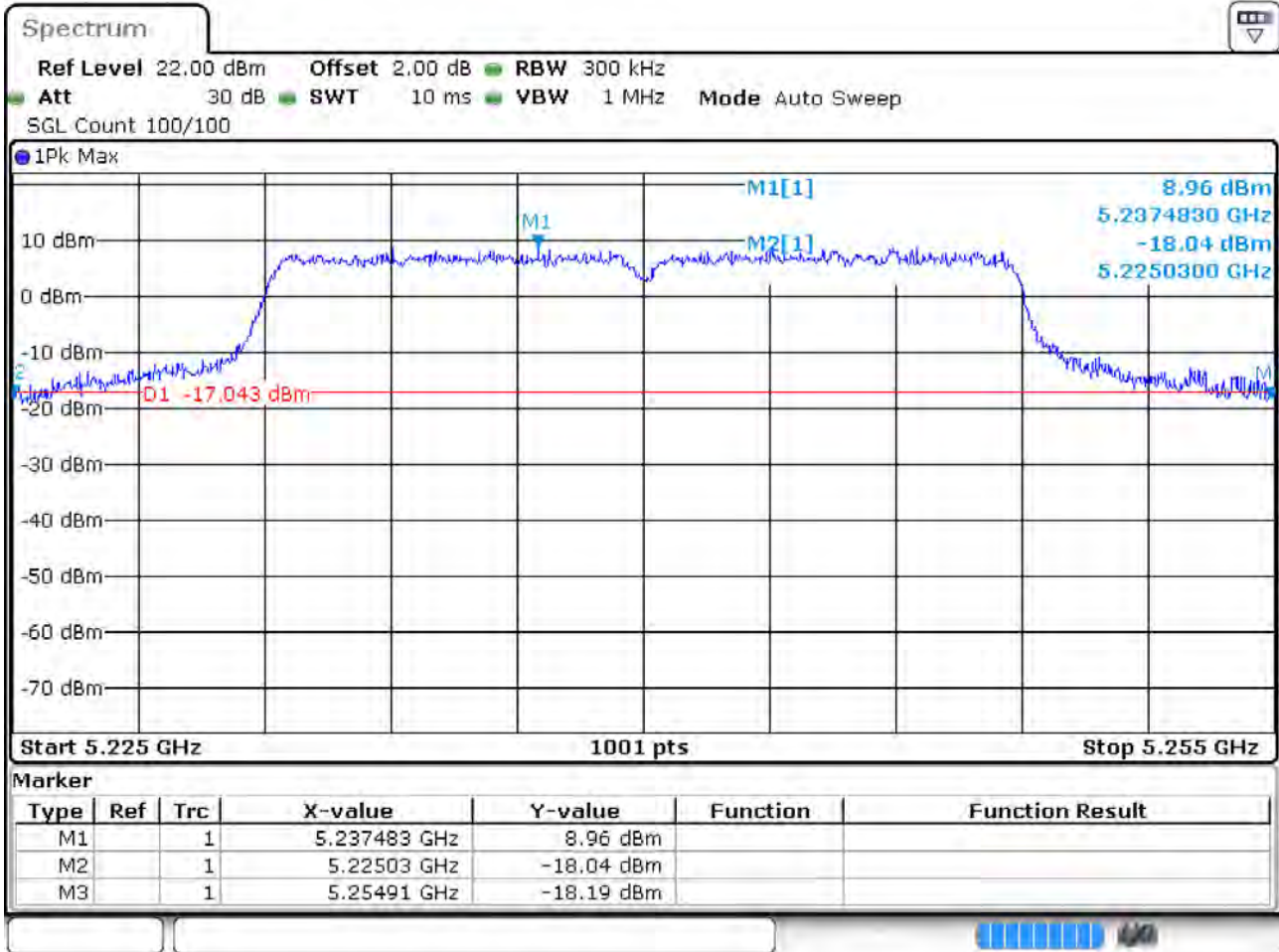
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**4.5.1.41 11AC20MIMO\_48 ANT 1**

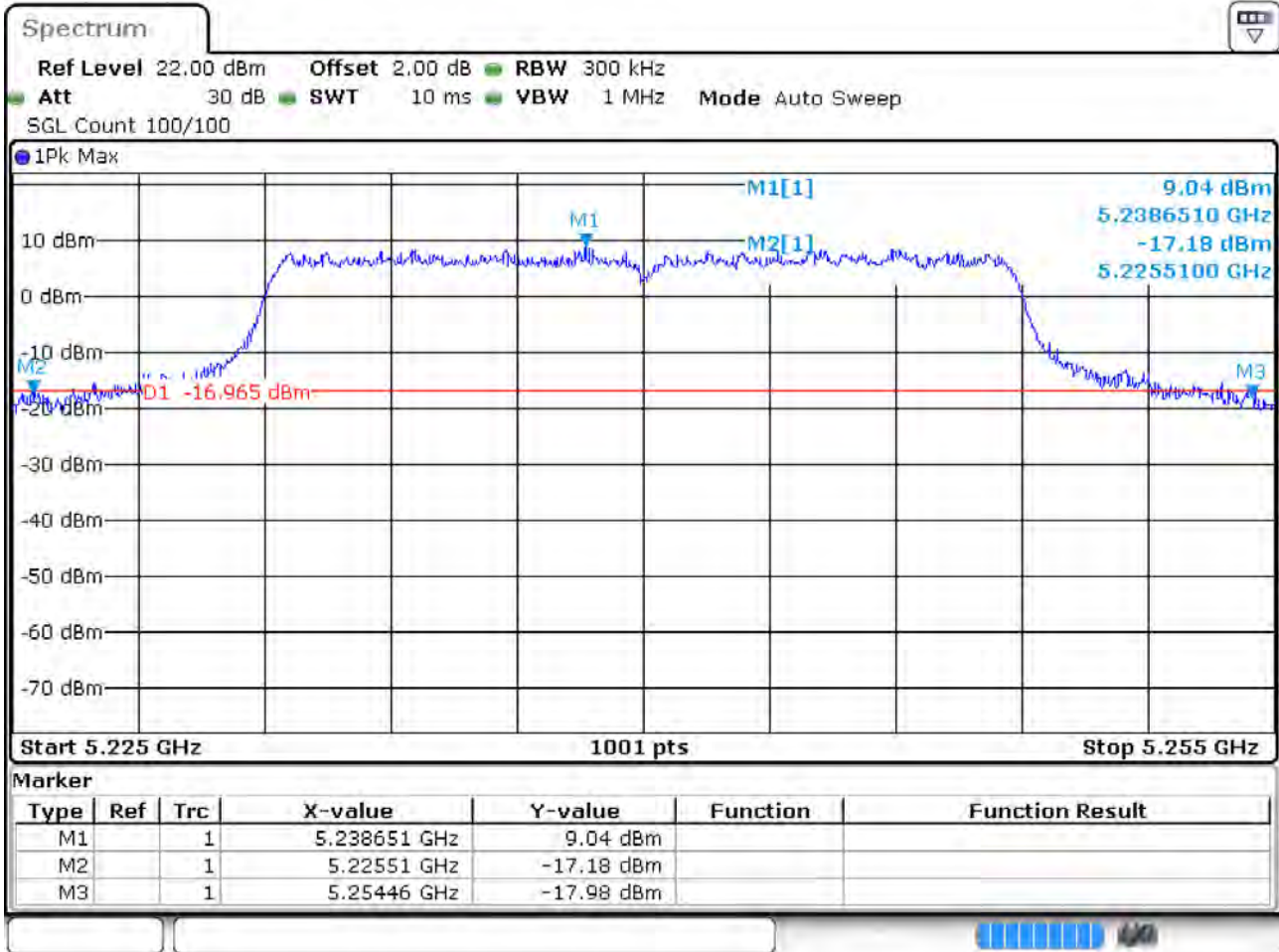


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**4.5.1.42 11AC20MIMO\_48 ANT 2**



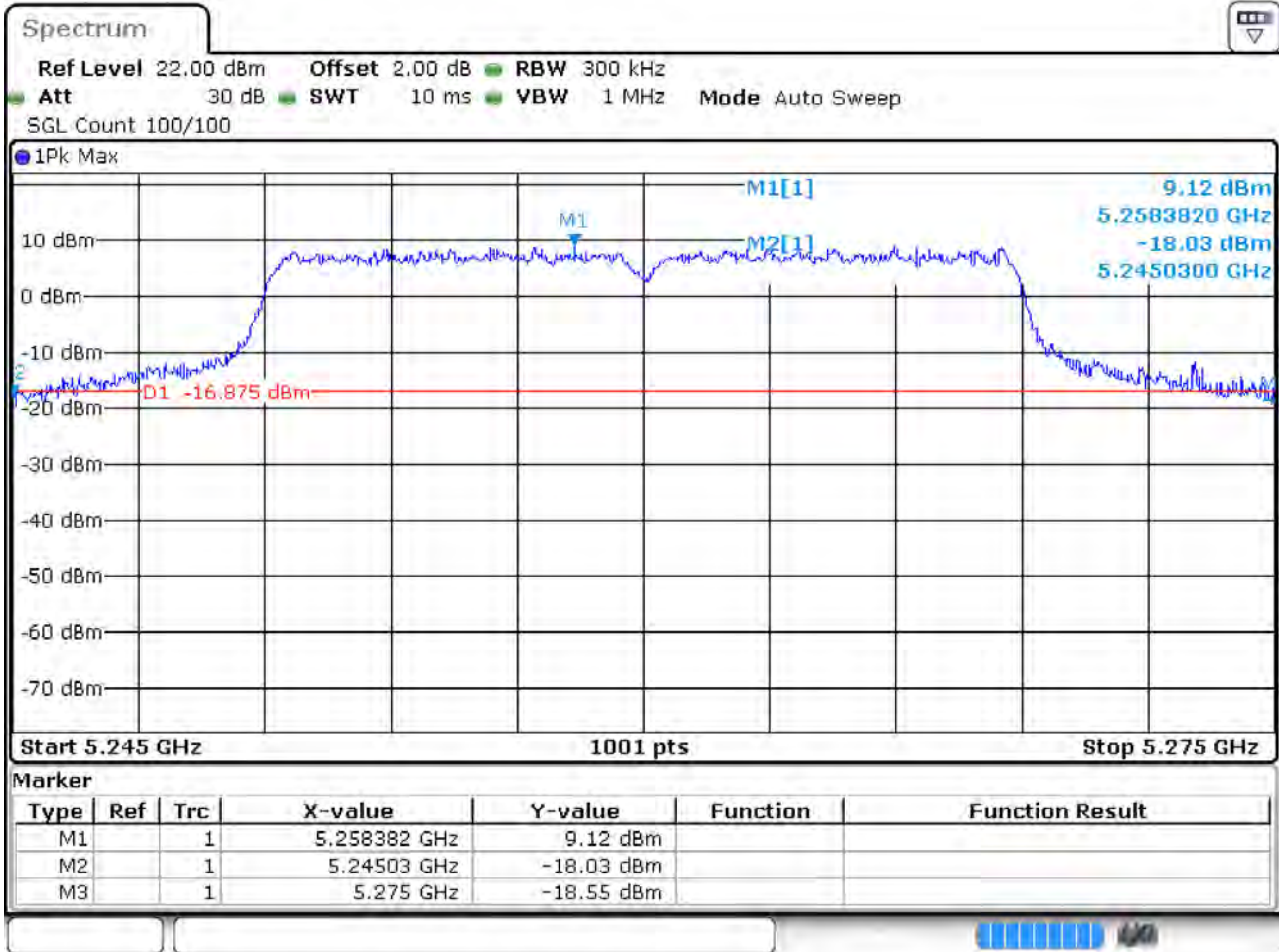
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**4.5.1.43 11AC20MIMO\_52 ANT 1**



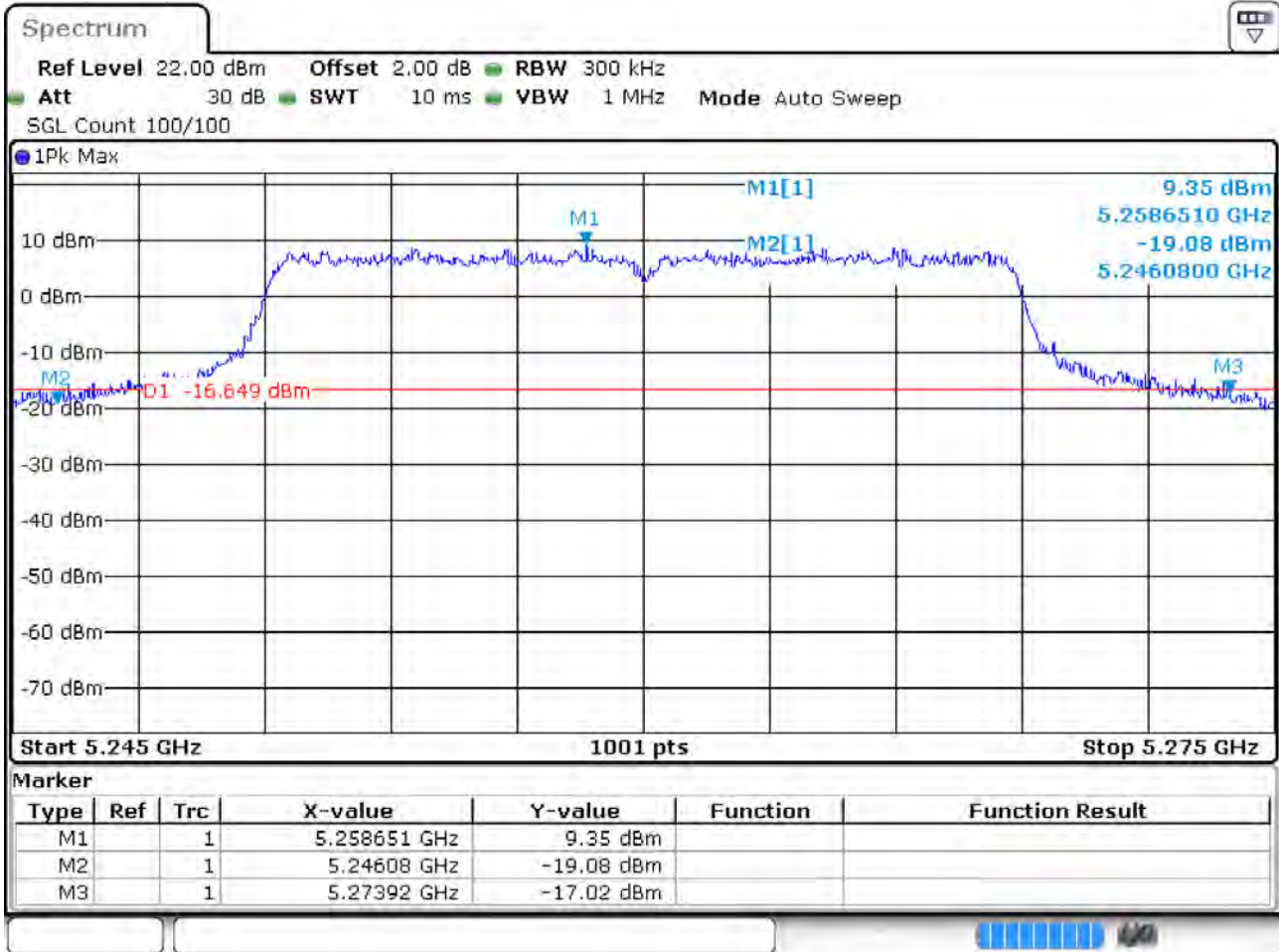
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**4.5.1.44 11AC20MIMO\_52 ANT 2**

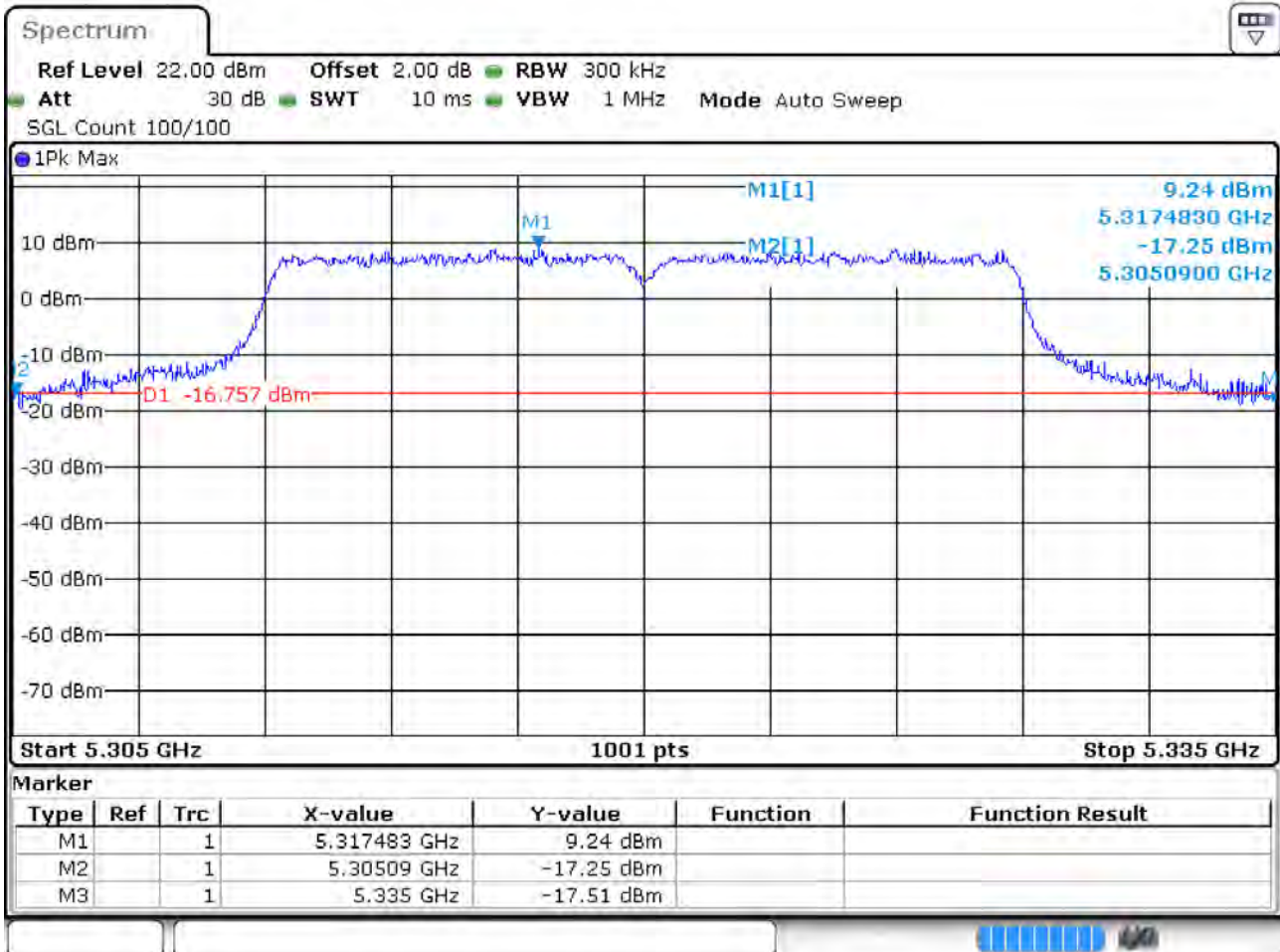


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4.5.1.45 11AC20MIMO\_64 ANT 1

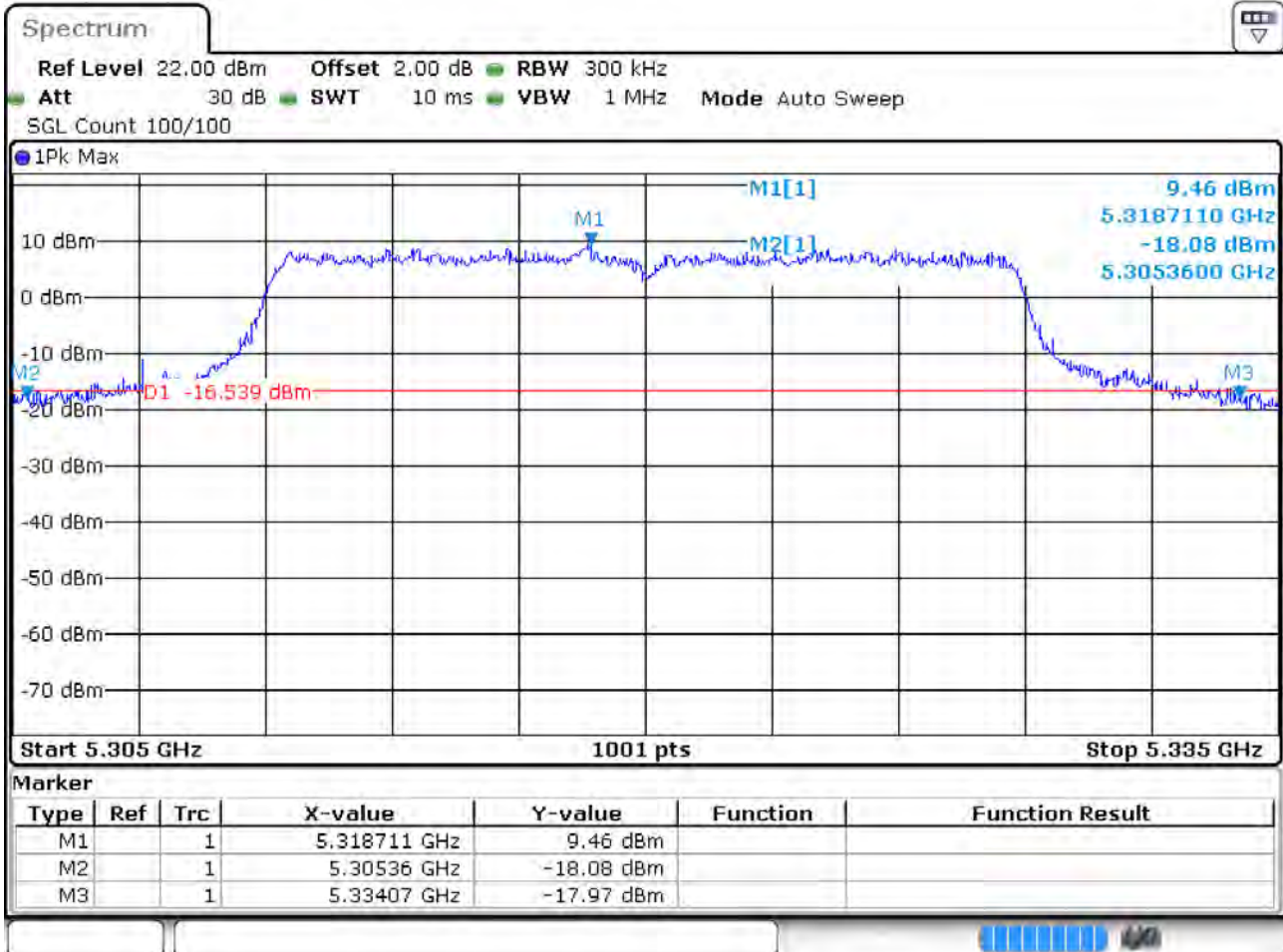


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**4.5.1.46 11AC20MIMO\_64 ANT 2**

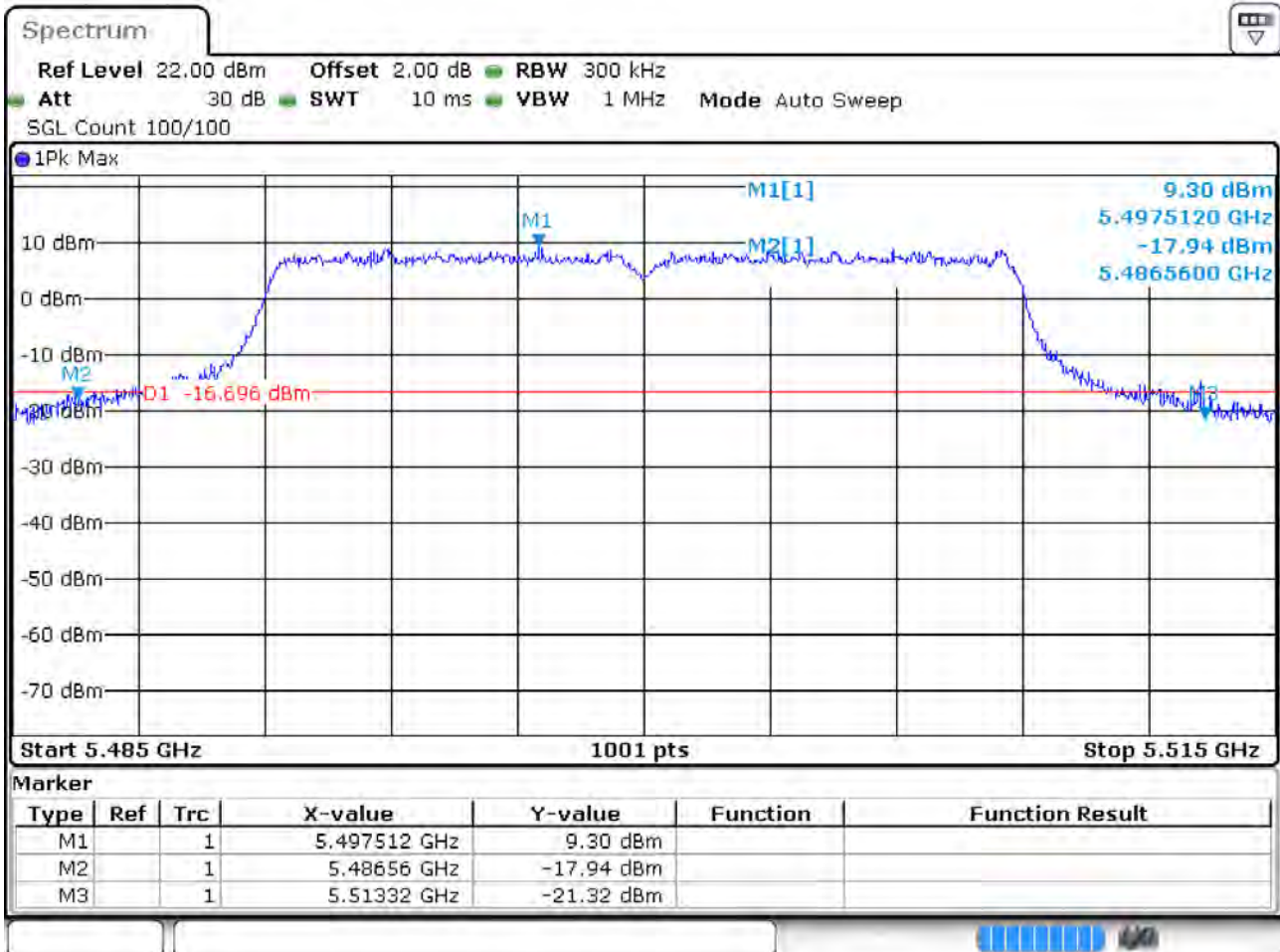


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4.5.1.47 11AC20MIMO\_100 ANT 1



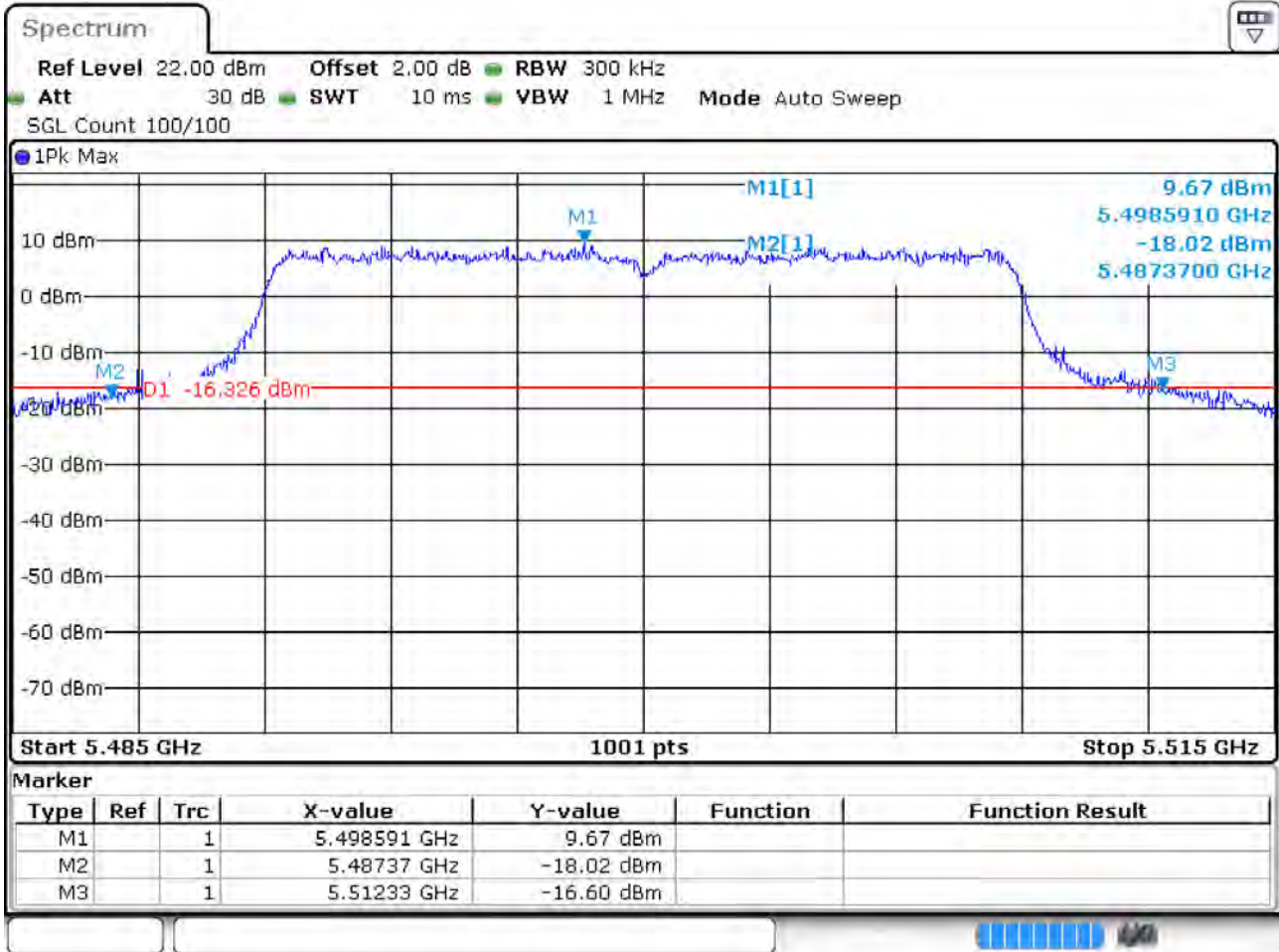
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4.5.1.48 11AC20MIMO\_100 ANT 2



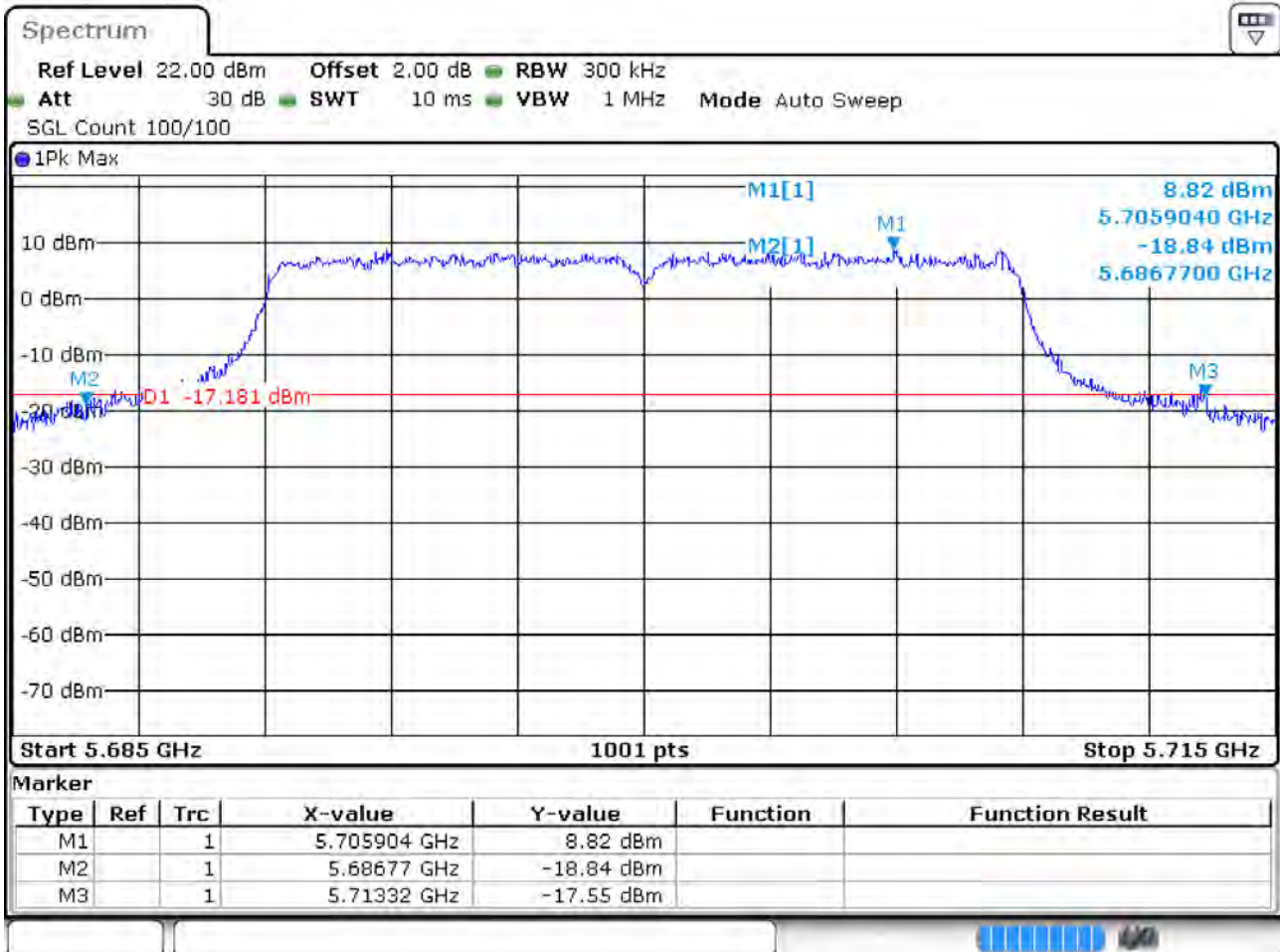
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**4.5.1.49 11AC20MIMO\_140 ANT 1**



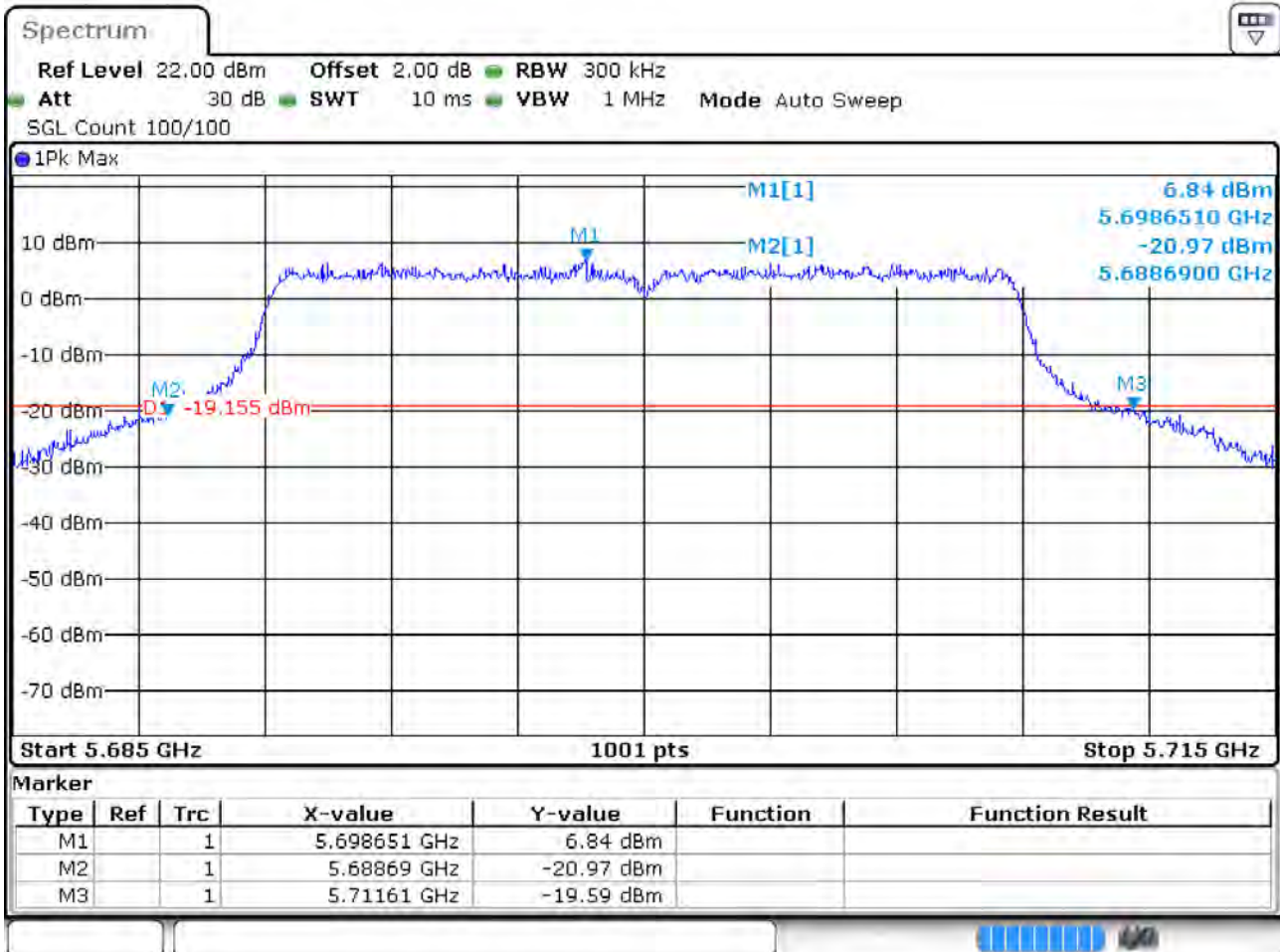
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4.5.1.50 11AC20MIMO\_140 ANT 2

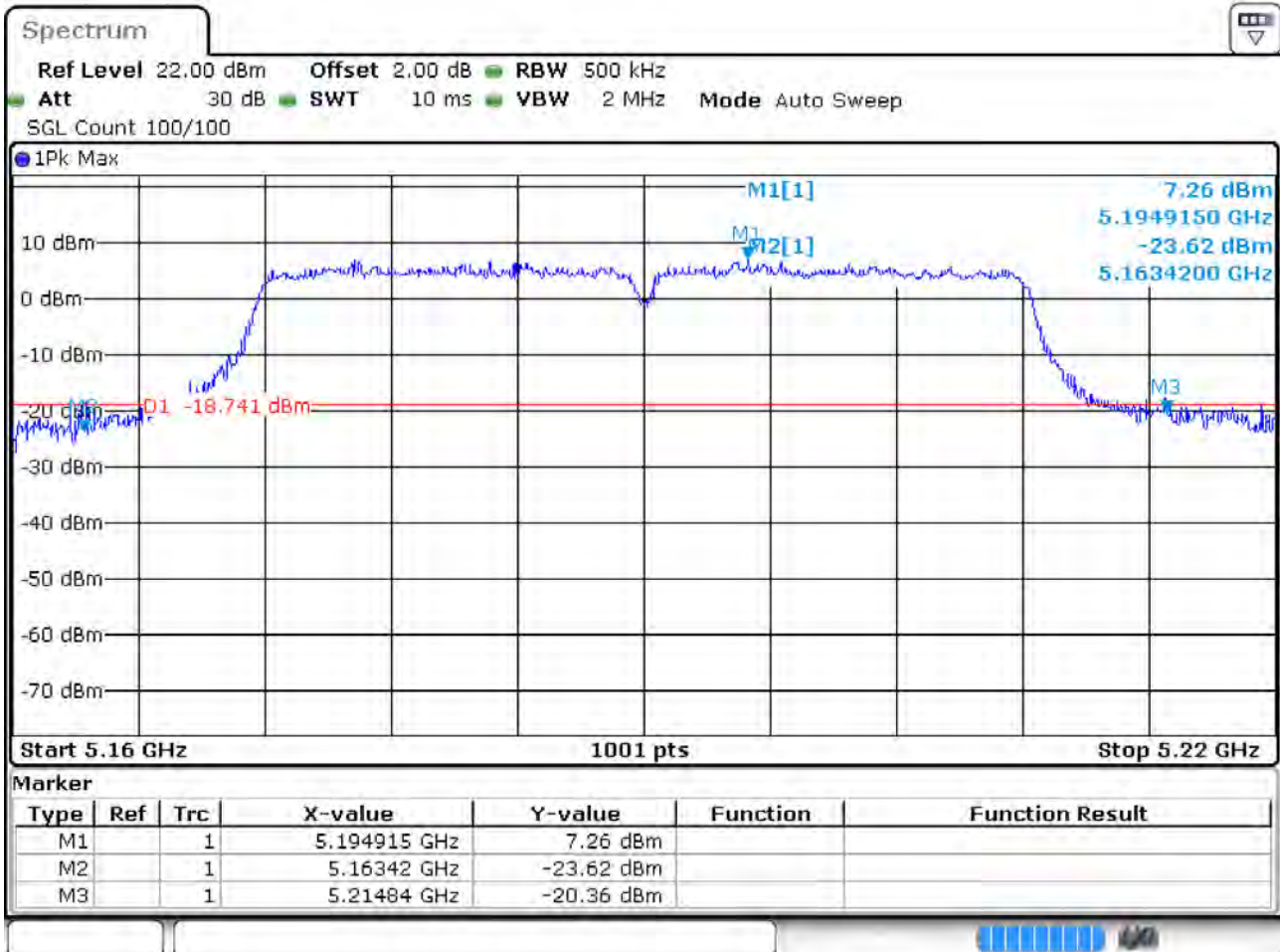


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**4.5.1.51 11AC40MIMO\_38 ANT 1**



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4.5.1.52 11AC40MIMO\_38 ANT 2

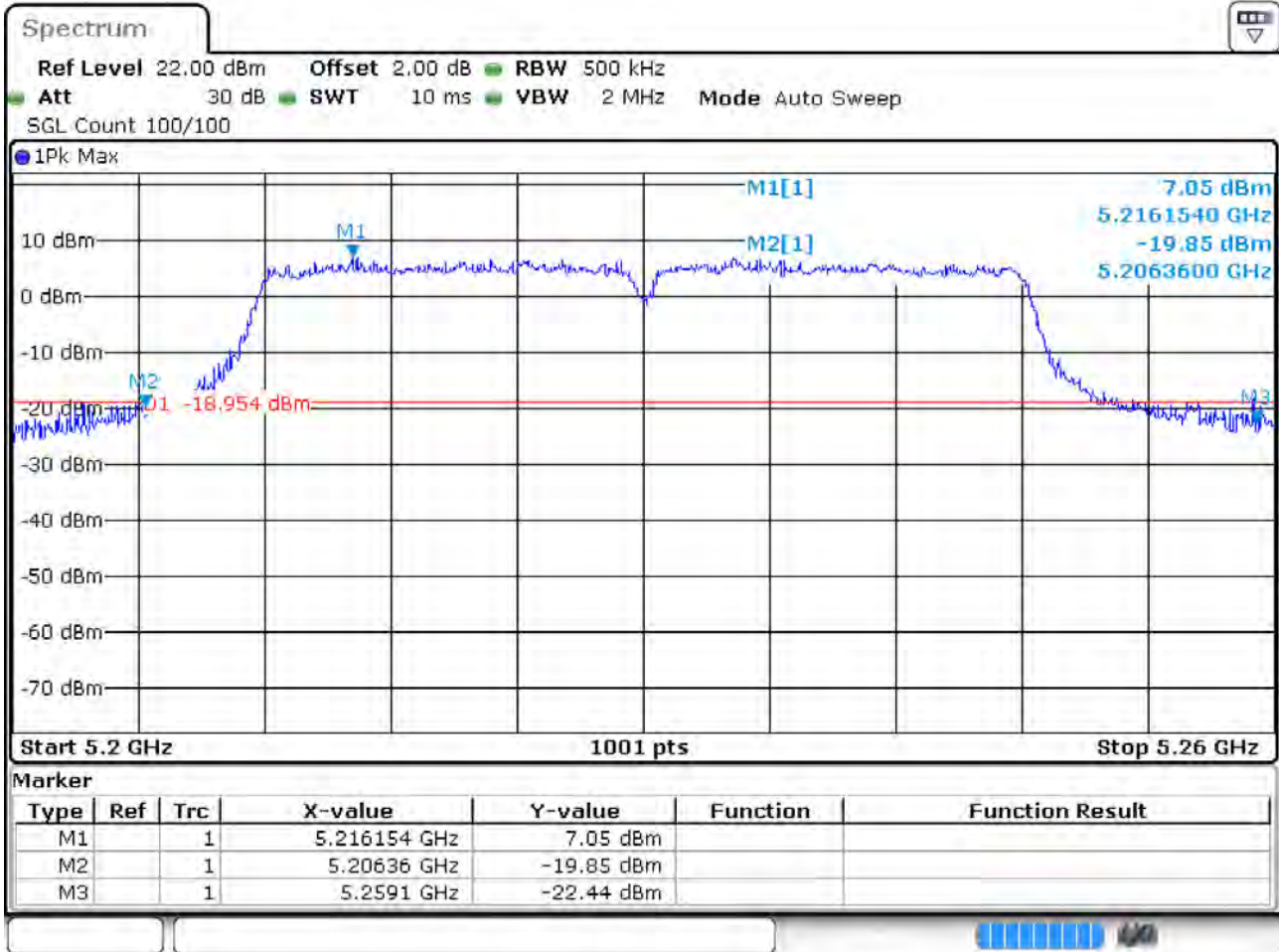


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**4.5.1.53 11AC40MIMO\_46 ANT 1**



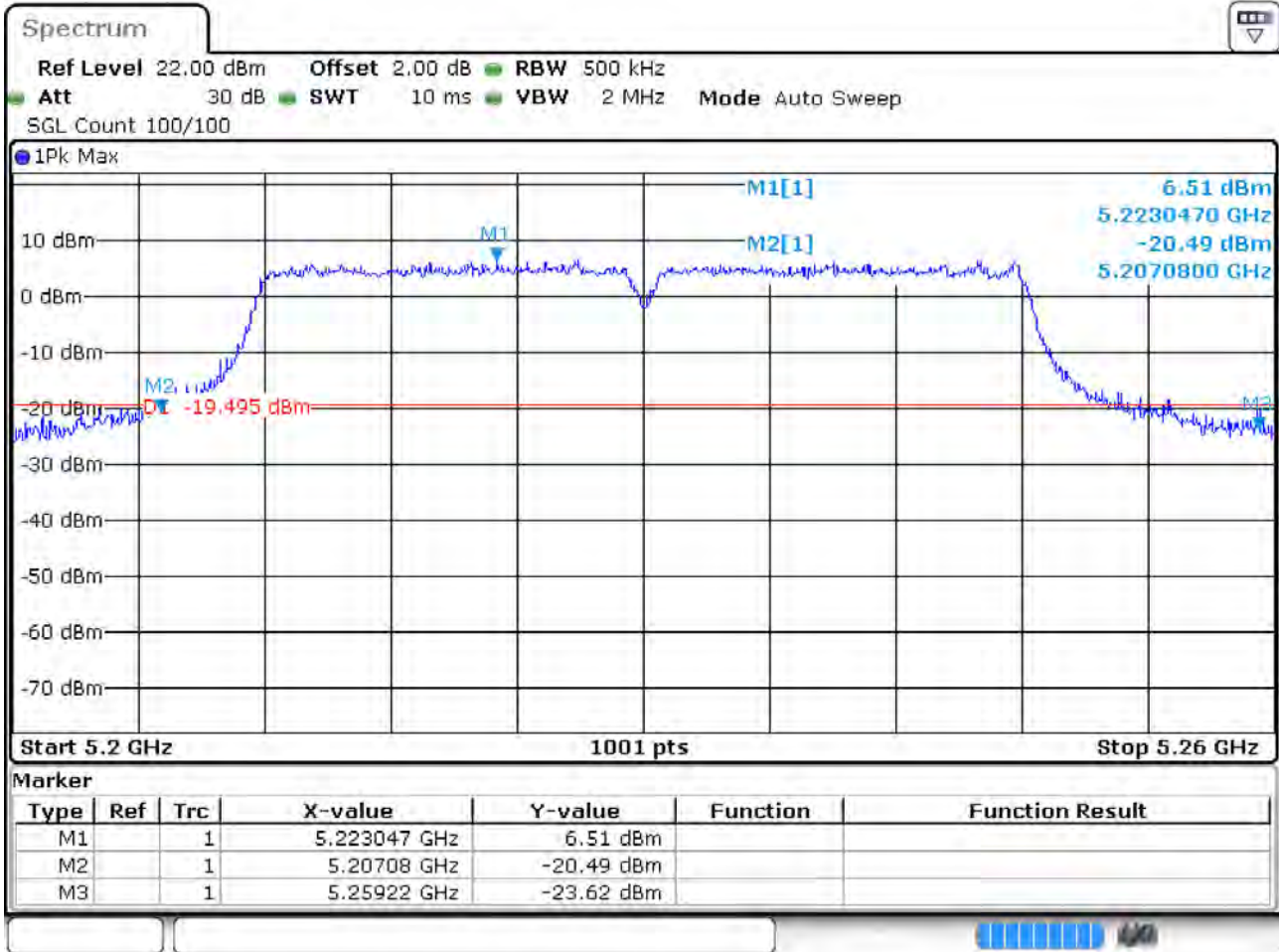
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**4.5.1.54 11AC40MIMO\_46 ANT 2**

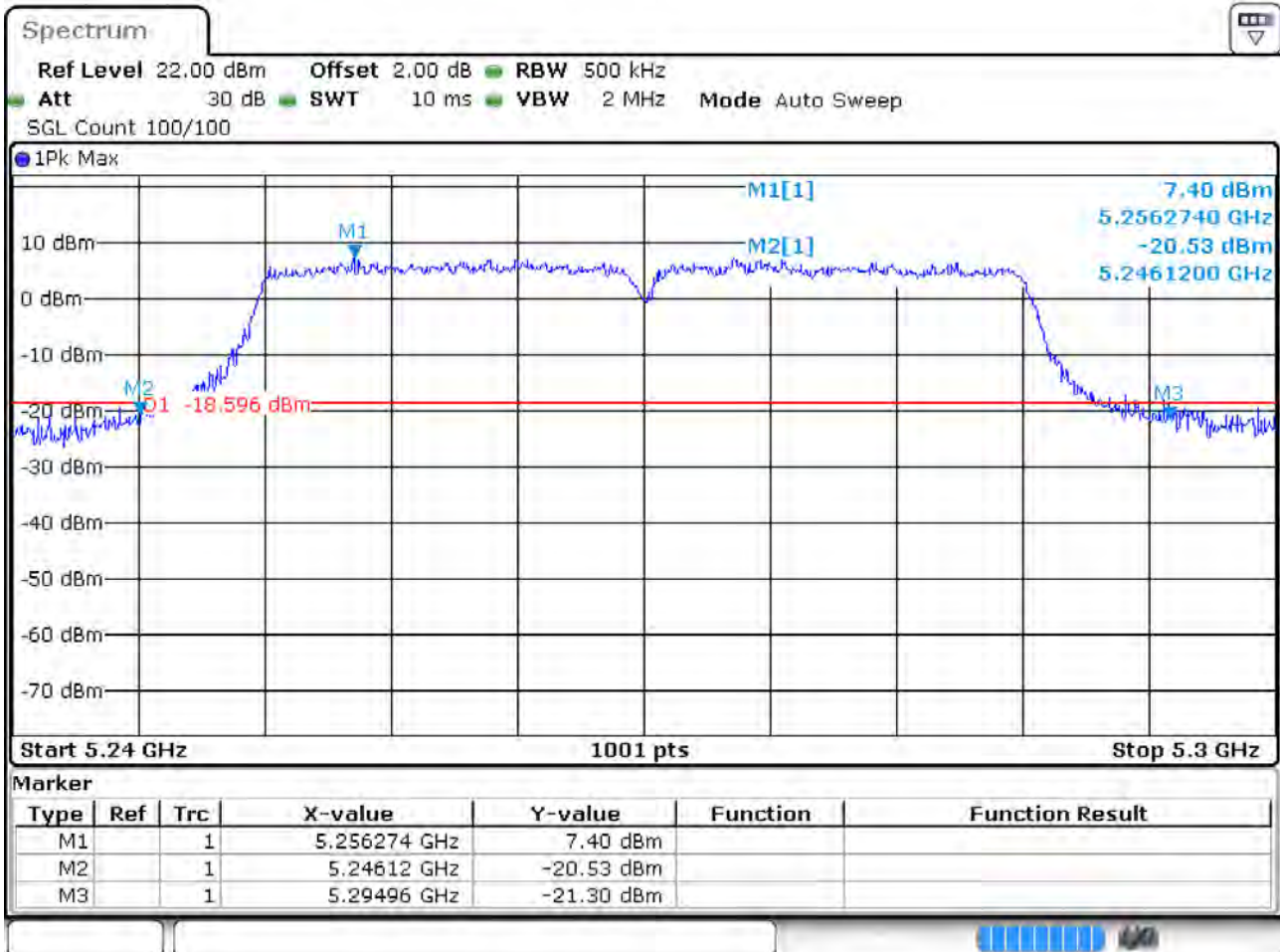


Date: 9 APR 2020 08:27:04



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**4.5.1.55 11AC40MIMO\_54 ANT 1**



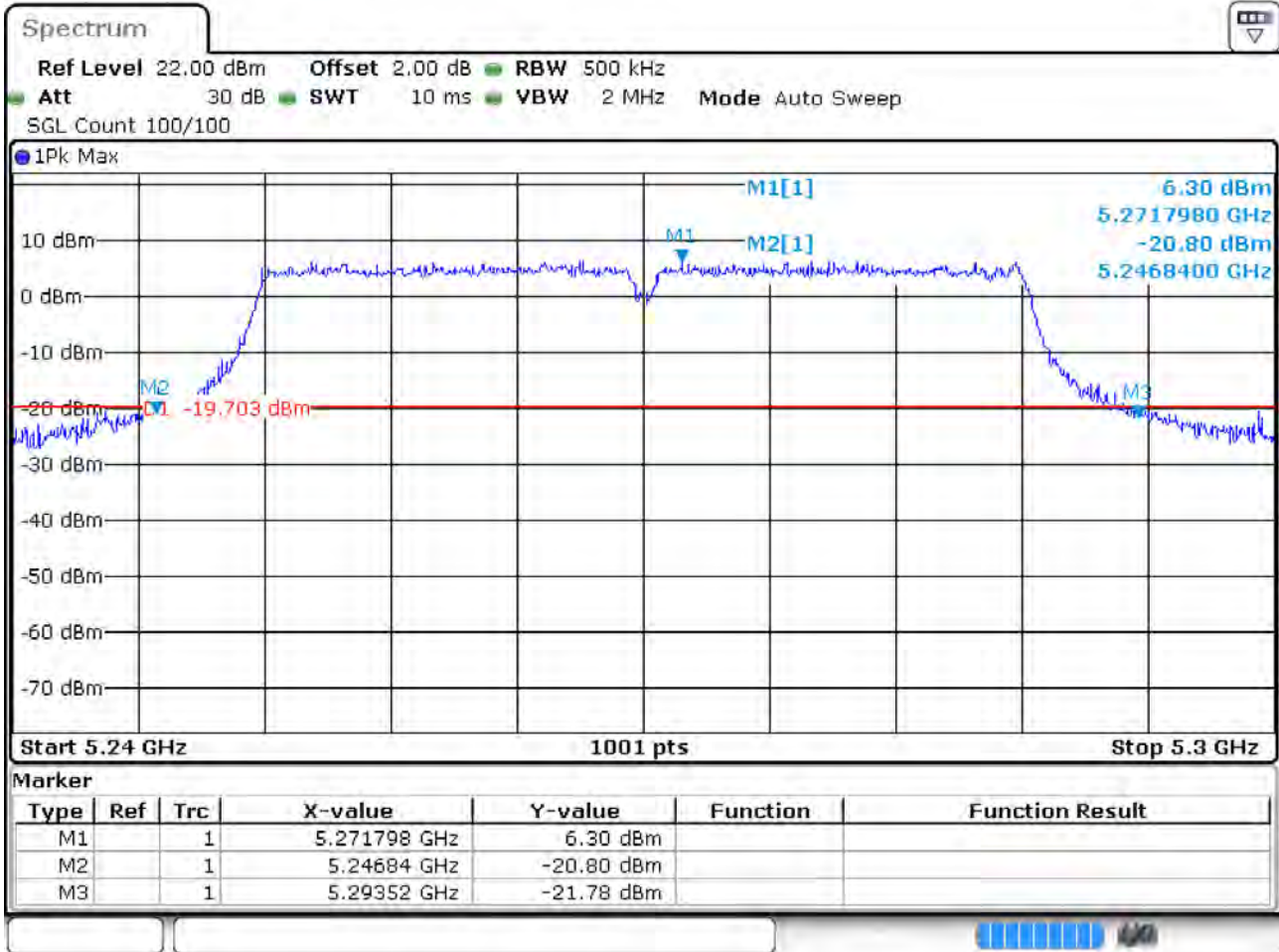
Date: 9.APR.2020 06:53:34



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**4.5.1.56 11AC40MIMO\_54 ANT 2**



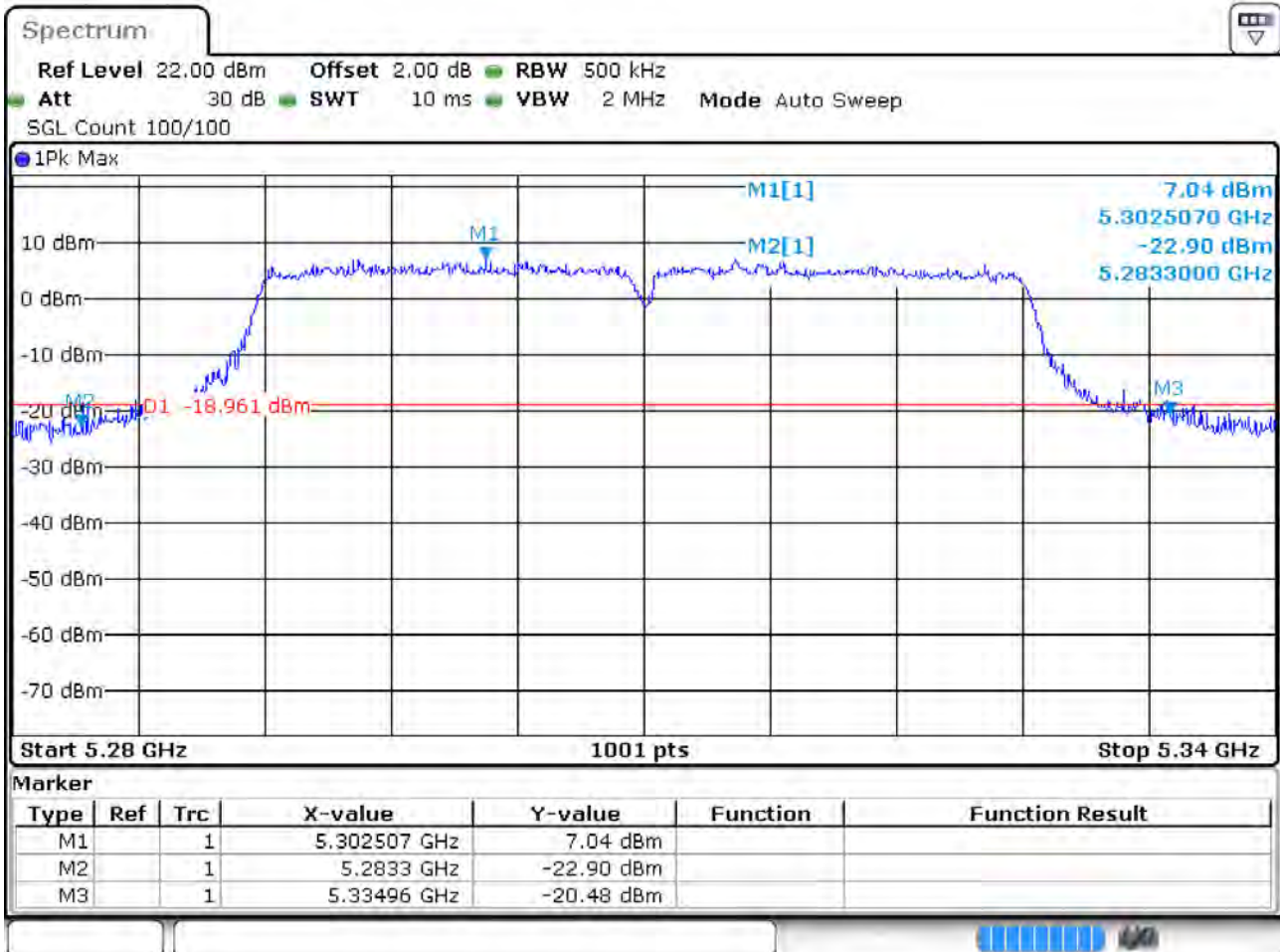
Date: 9 APR 2020 08:28:51



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**4.5.1.57 11AC40MIMO\_62 ANT 1**

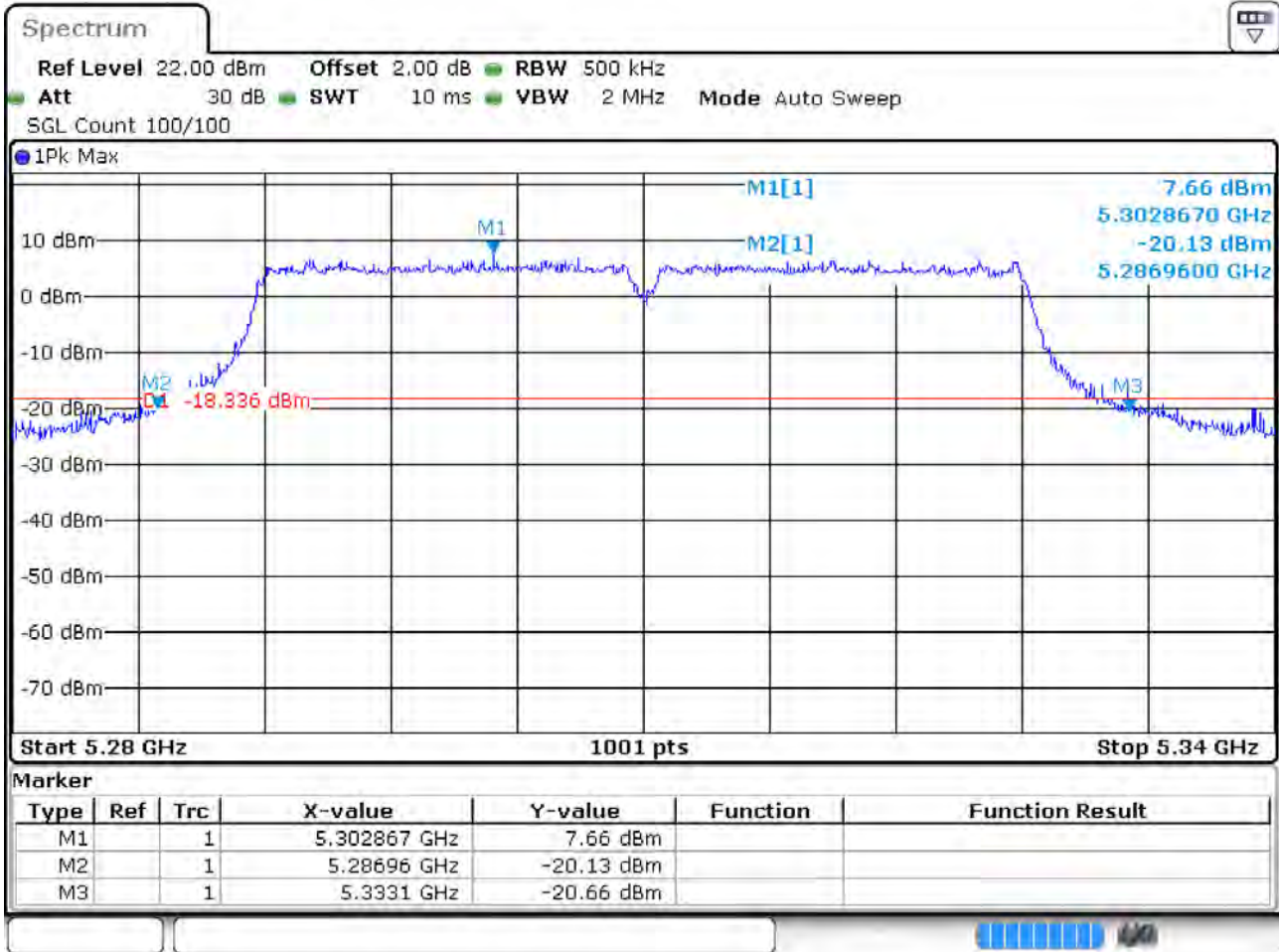


Date: 10. APR.2020 03:03:35



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**4.5.1.58 11AC40MIMO\_62 ANT 2**



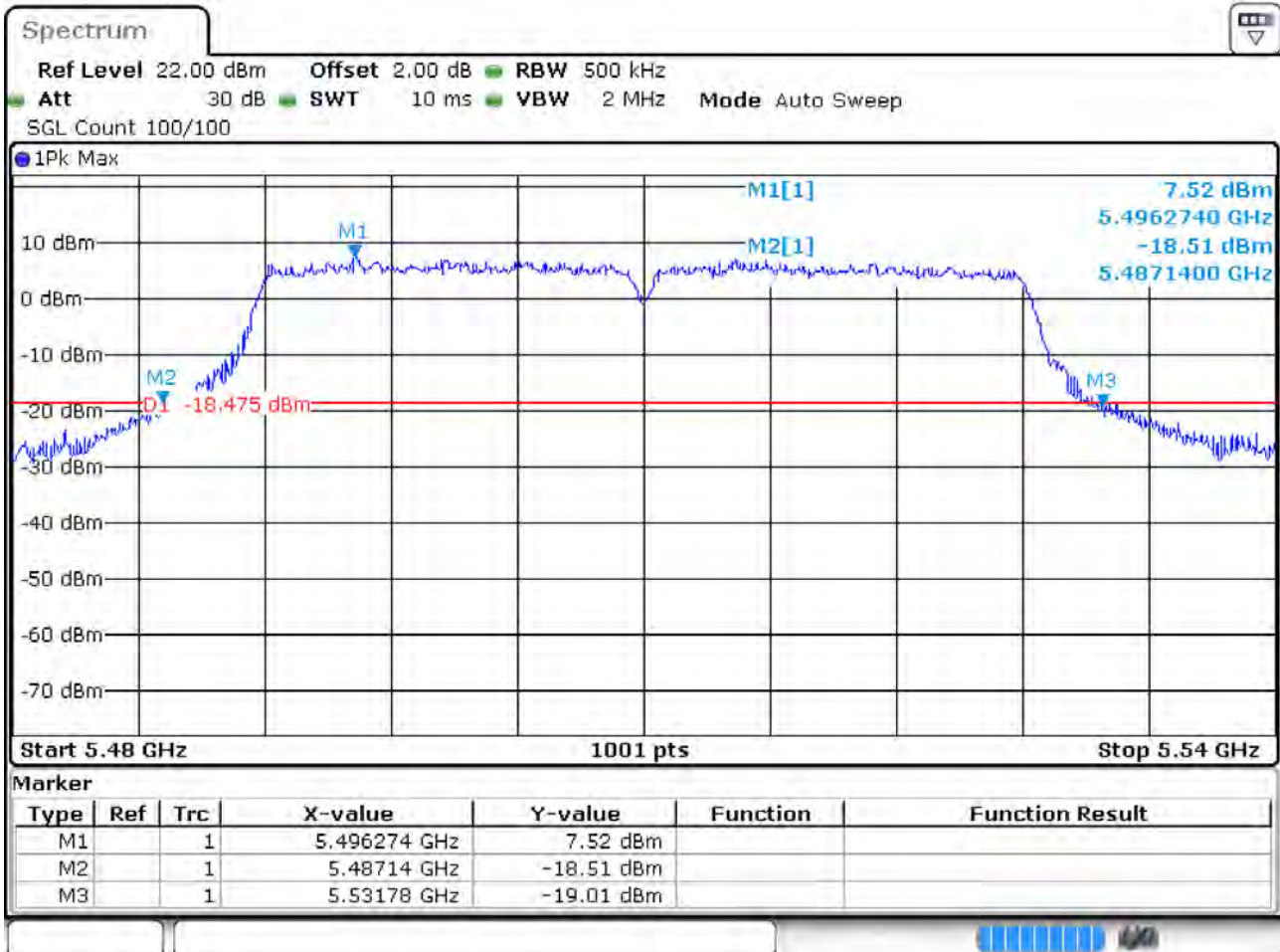
Date: 9.APR.2020 08:30:27



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4.5.1.59 11AC40MIMO\_102 ANT 1

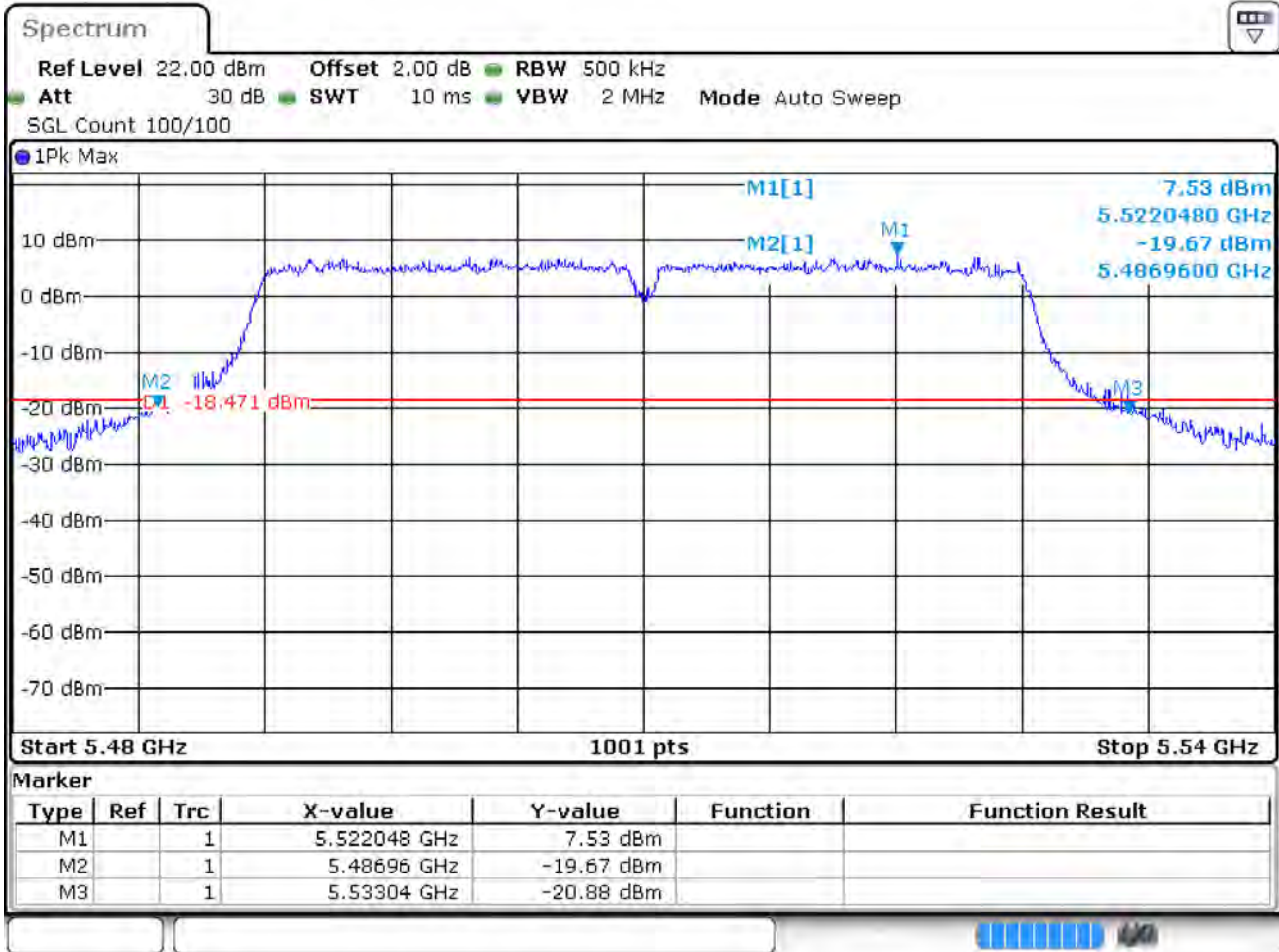


Date: 9 APR 2020 06:55:02



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4.5.1.60 11AC40MIMO\_102 ANT 2

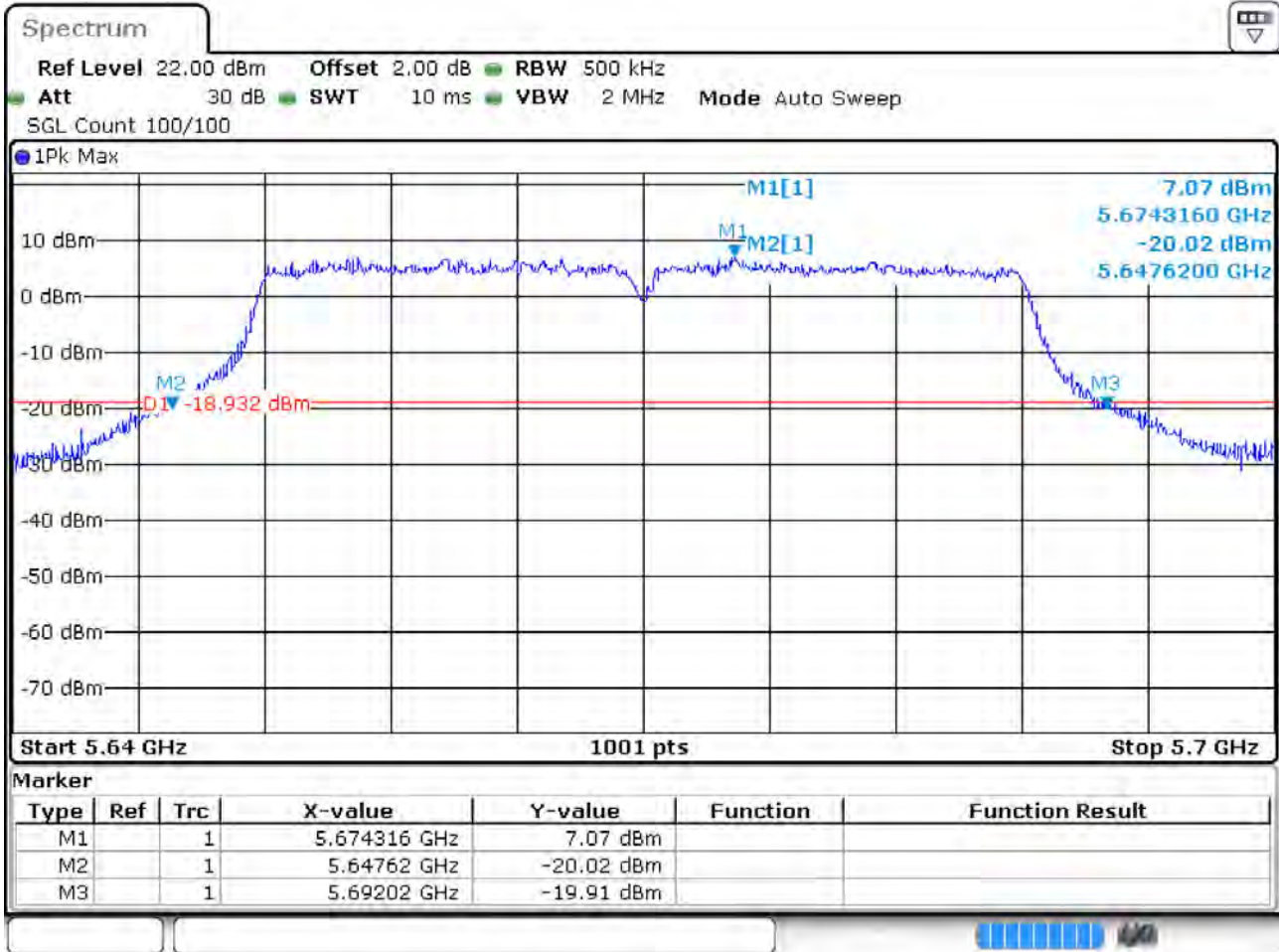


Date: 9 APR 2020 08:31:32



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4.5.1.61 11AC40MIMO\_134 ANT 1

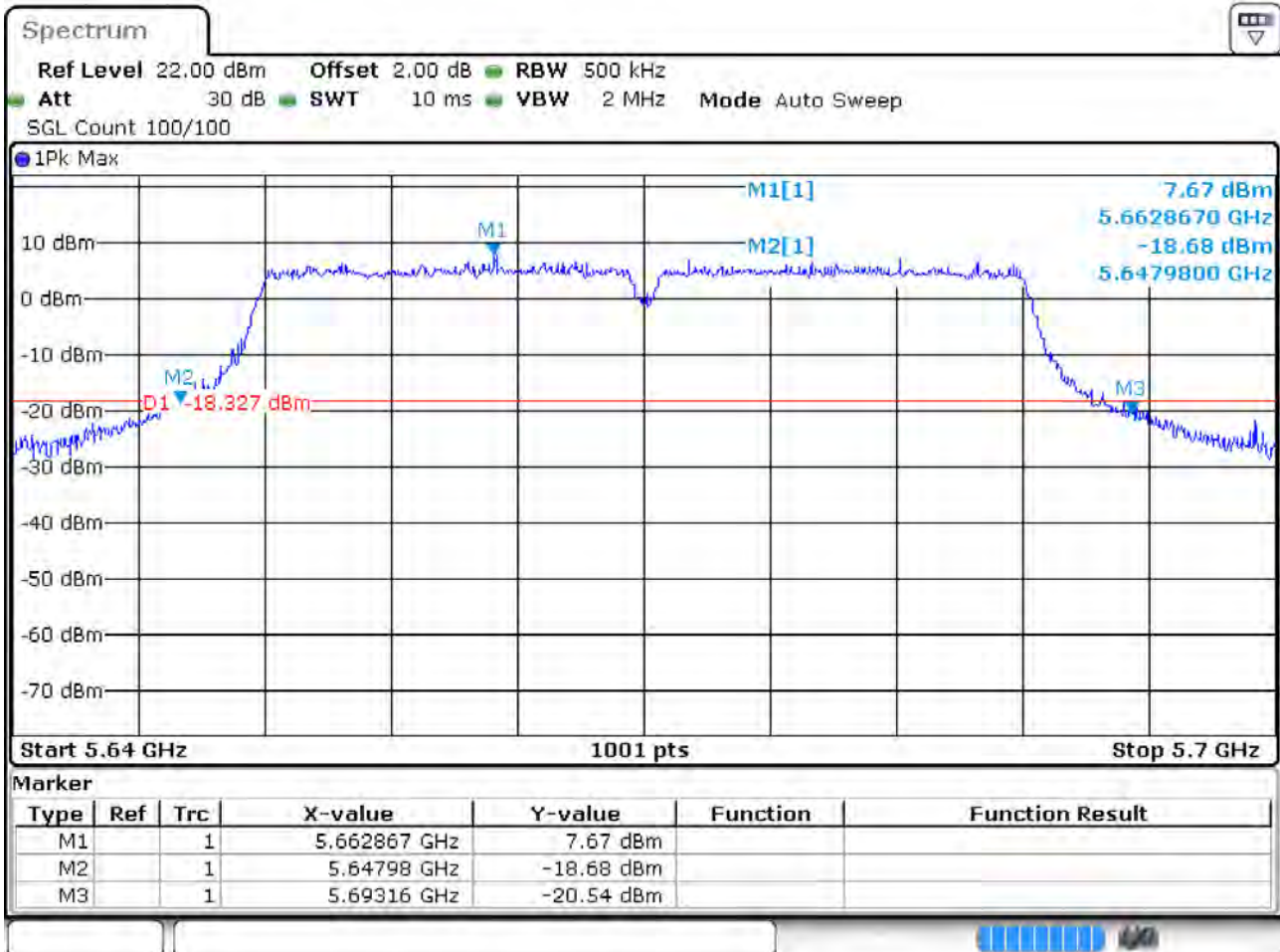


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4.5.1.62 11AC40MIMO\_134 ANT 2

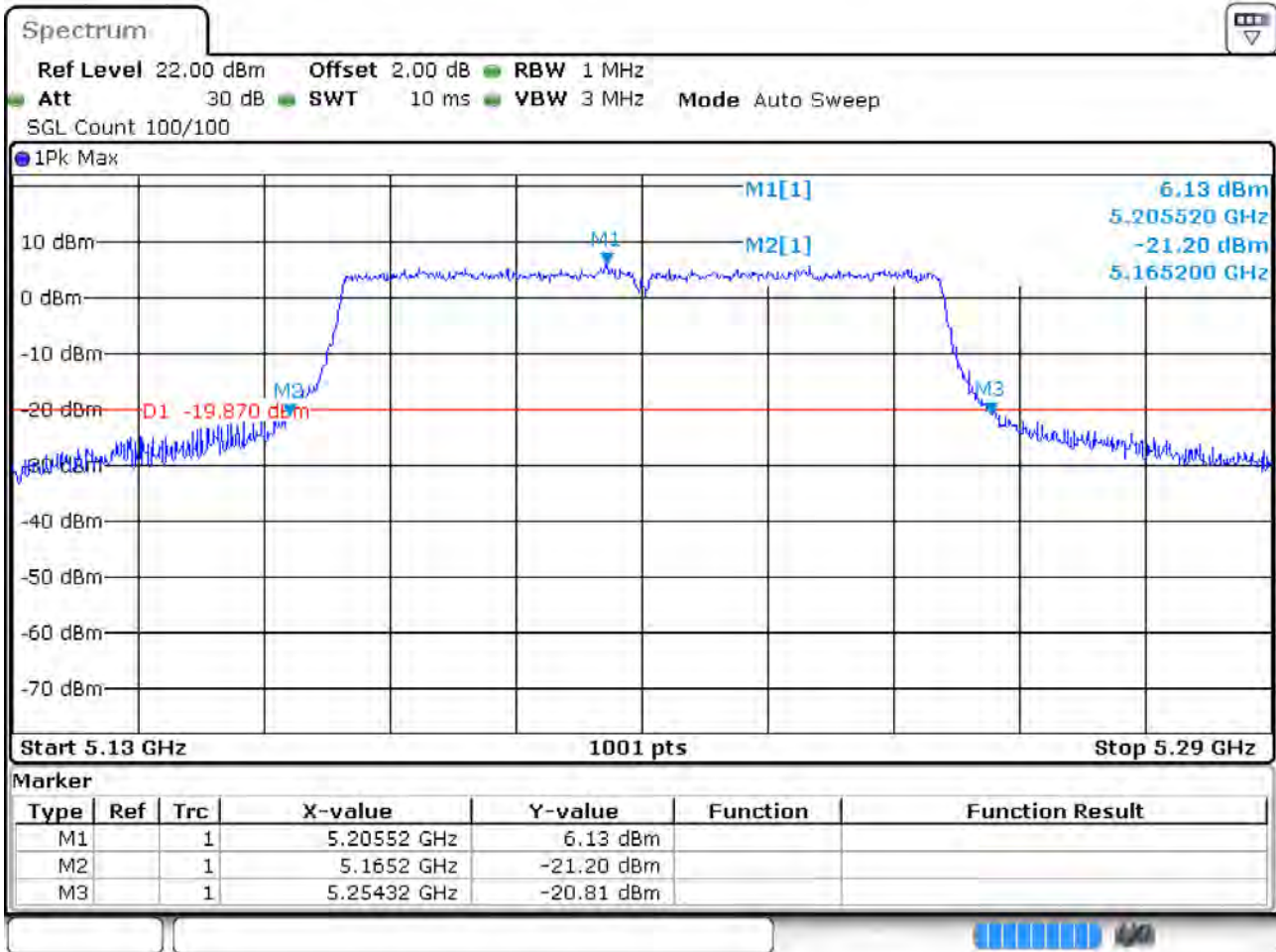


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**4.5.1.63 11AC80MIMO\_42 ANT 1**



Date: 9 APR 2020 07:02:54

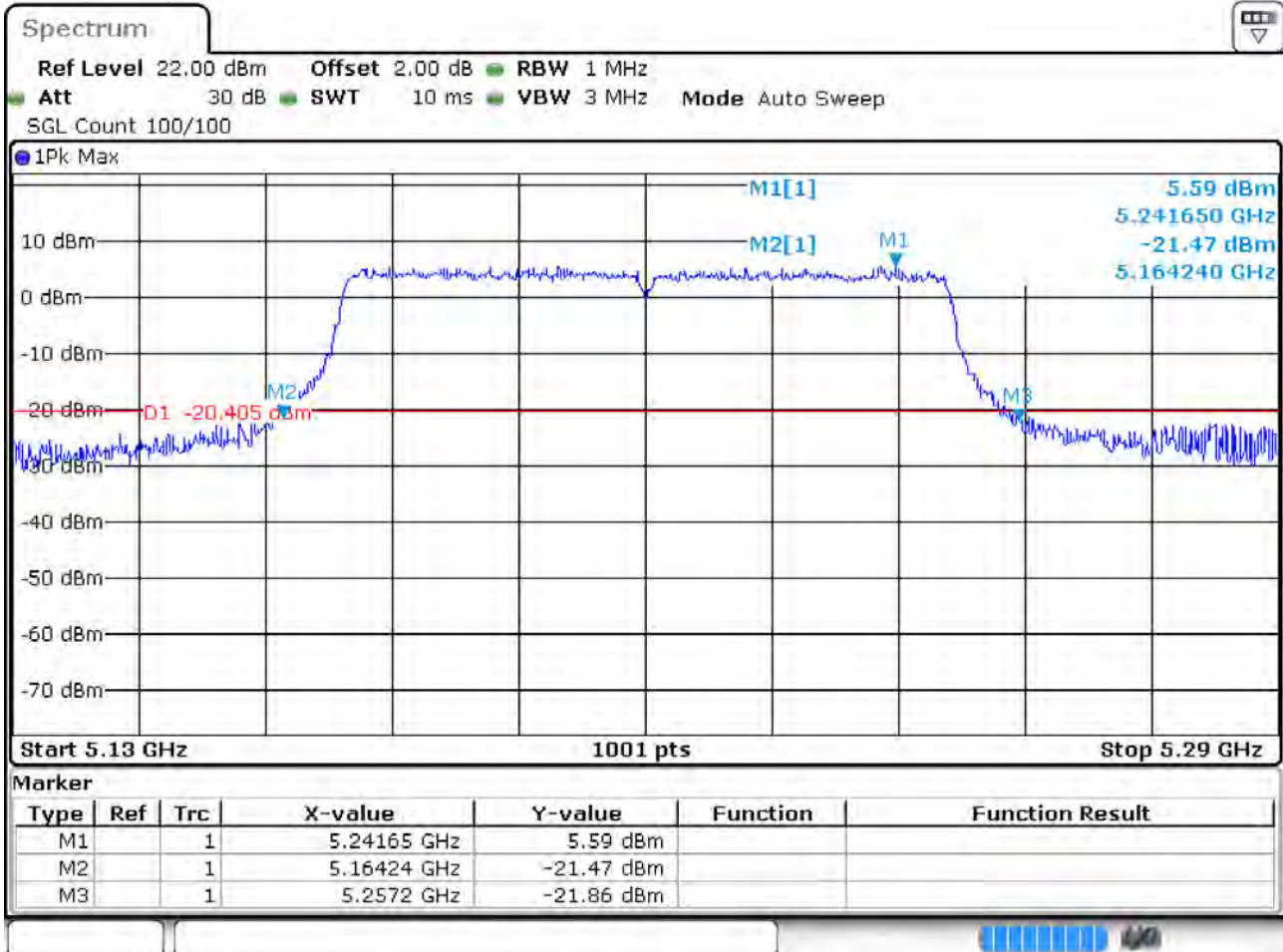


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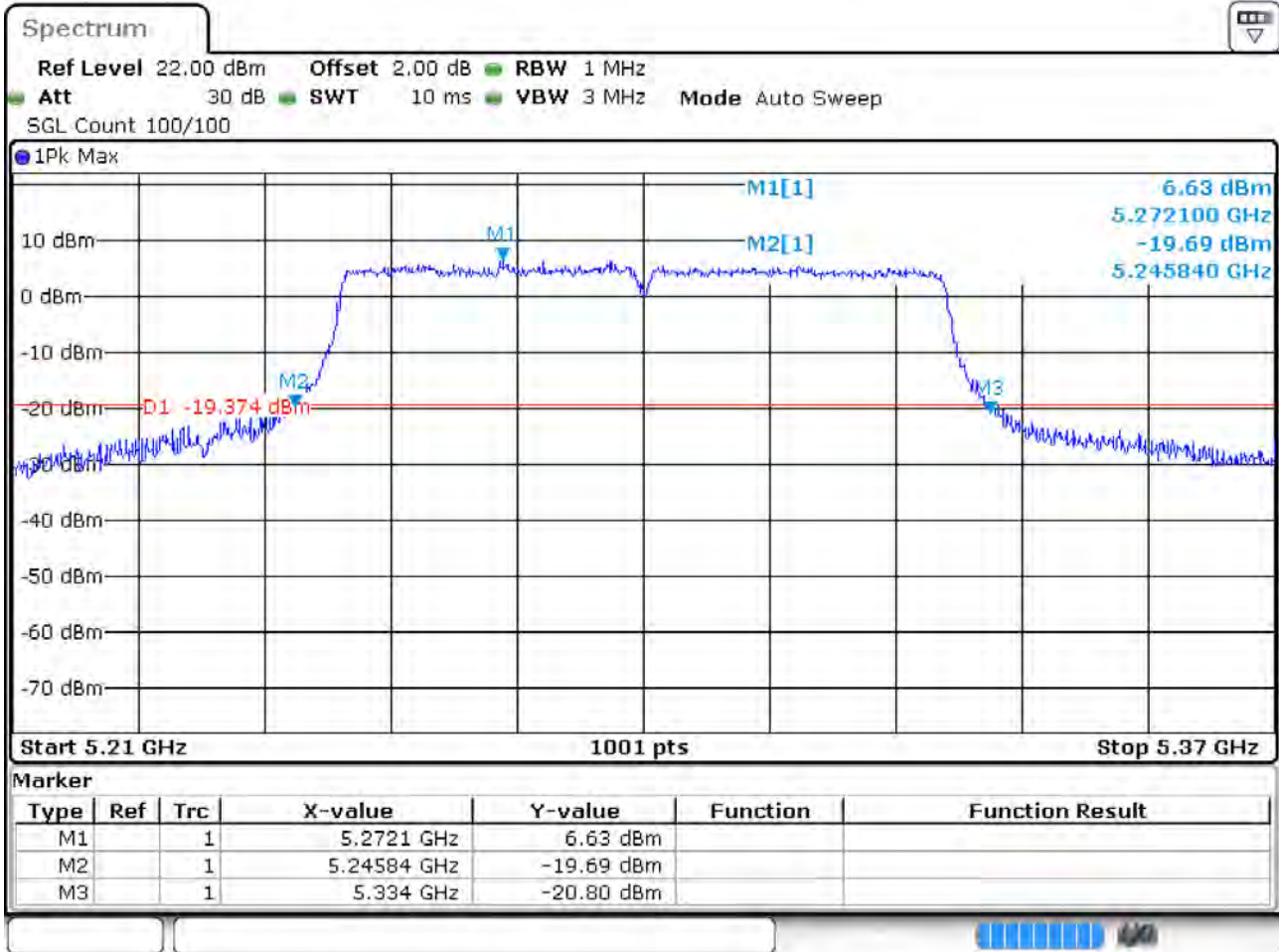
4.5.1.64 11AC80MIMO\_42 ANT 2



Date: 9 APR 2020 07:13:46



**4.5.1.65 11AC80MIMO\_58 ANT 1**



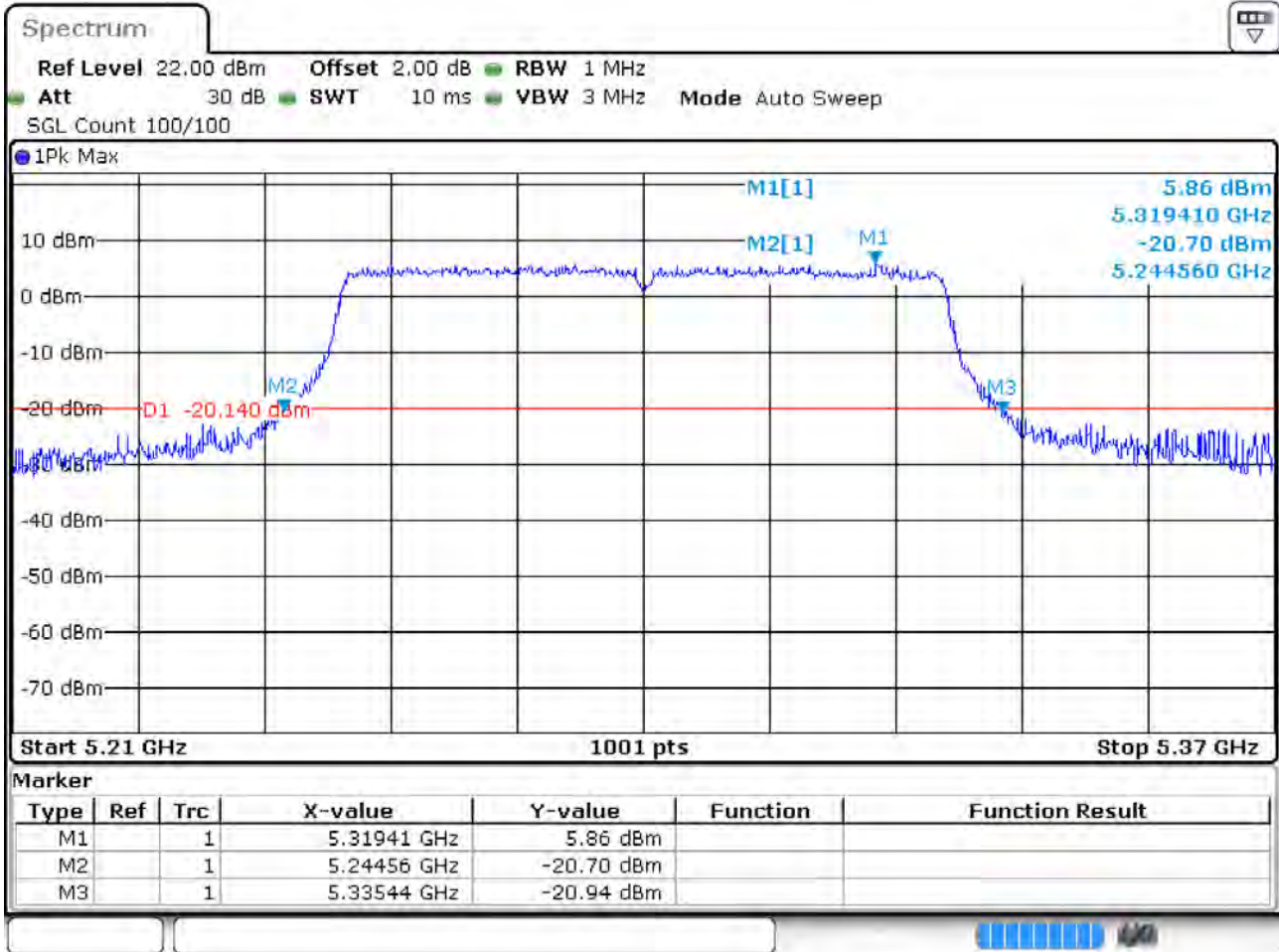
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4.5.1.66 11AC80MIMO\_58 ANT 2

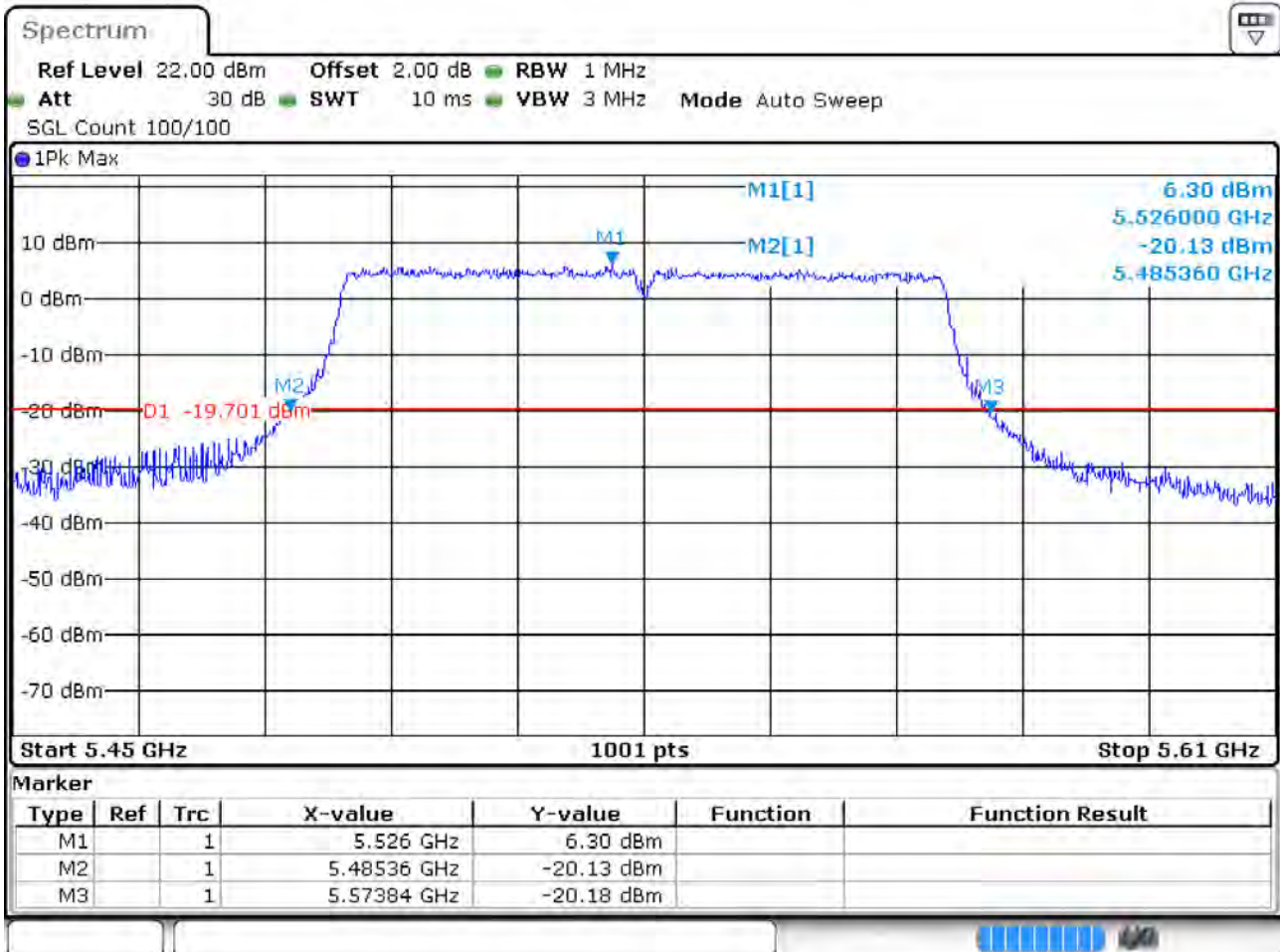


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**4.5.1.67 11AC80MIMO\_106 ANT 1**



Date: 9.APR.2020 07:07:29

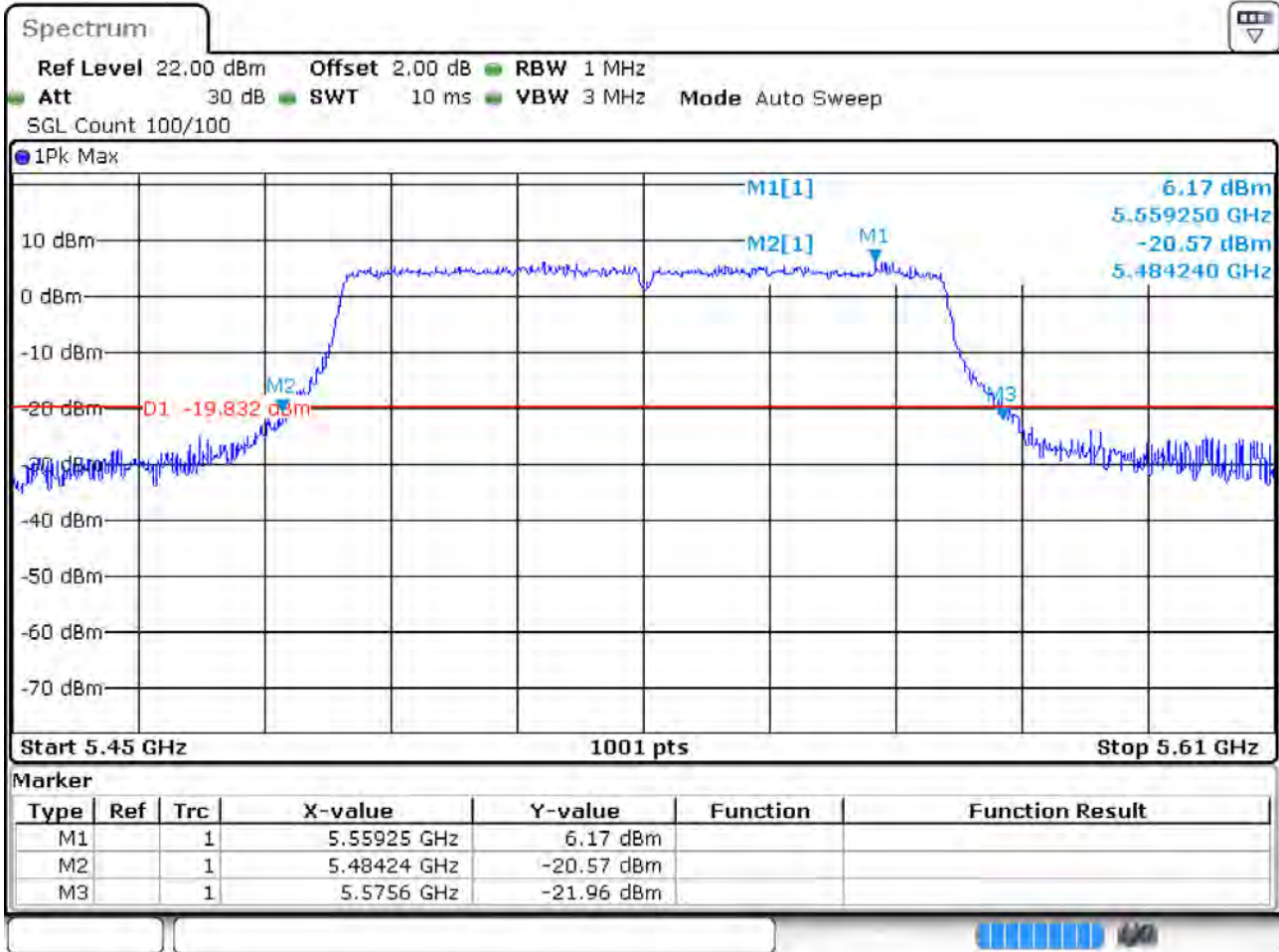


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4.5.1.68 11AC80MIMO\_106 ANT 2



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4.5.1.69 11AX20MIMO\_26T\_36 ANT 1



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**4.5.1.70 11AX20MIMO\_26T\_36 ANT 2**



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**4.5.1.71 11AX20MIMO\_26T\_48 ANT 1**



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4.5.1.72 11AX20MIMO\_26T\_48 ANT 2



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4.5.1.73 11AX20MIMO\_26T\_52 ANT 1



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**4.5.1.74 11AX20MIMO\_26T\_52 ANT 2**



Date: 11.APR.2020 07:42:36



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4.5.1.75 11AX20MIMO\_26T\_64 ANT 1



Date: 11.APR.2020 07:21:34



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**4.5.1.76 11AX20MIMO\_26T\_64 ANT 2**



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**4.5.1.77 11AX20MIMO\_26T\_100 ANT 1**



Date: 11.APR.2020 07:23:19



**4.5.1.78 11AX20MIMO\_26T\_100 ANT 2**



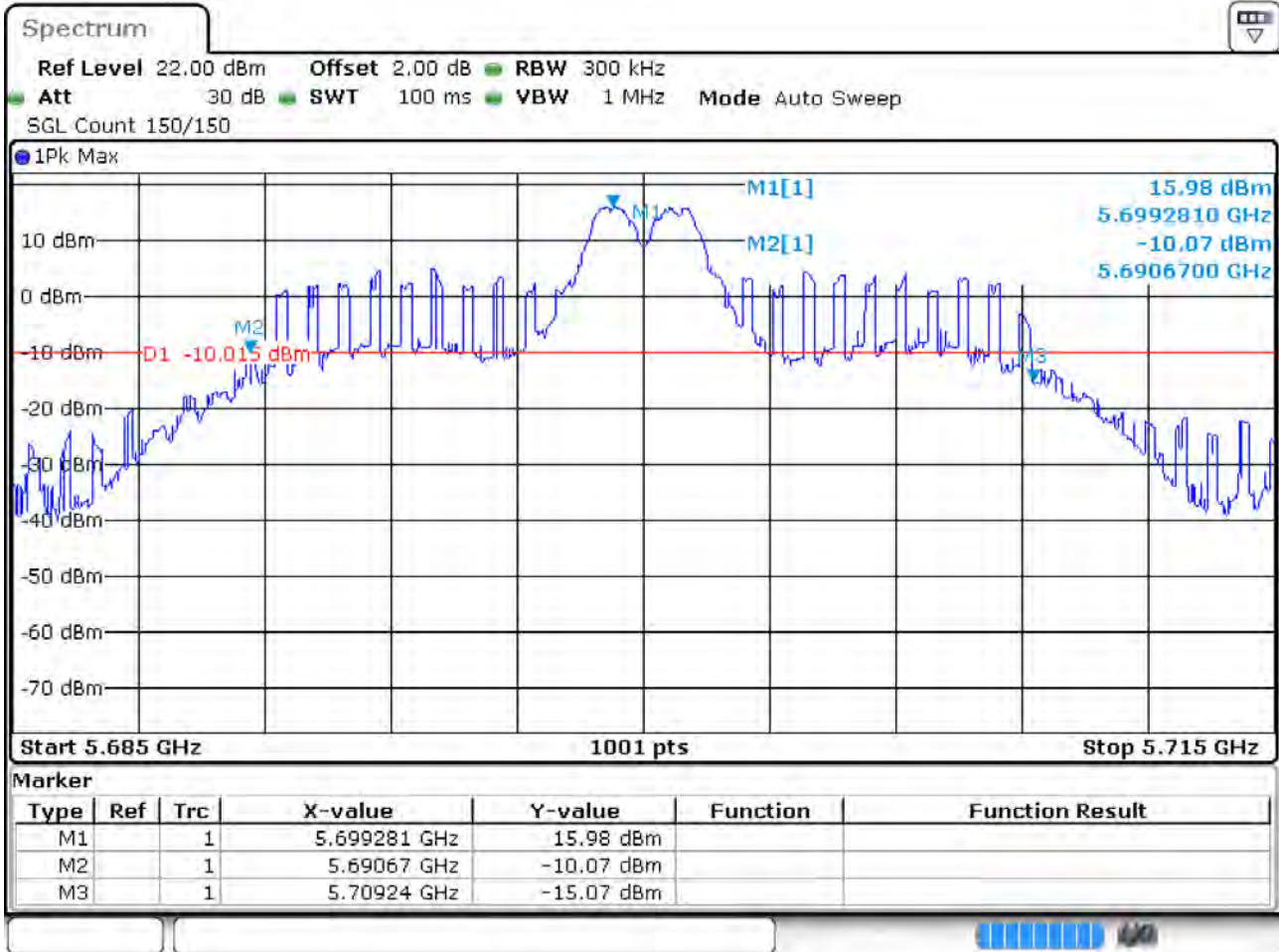
Date: 11.APR.2020 07:55:11



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**4.5.1.79 11AX20MIMO\_26T\_140 ANT 1**



Date: 11.APR.2020 07:24:50

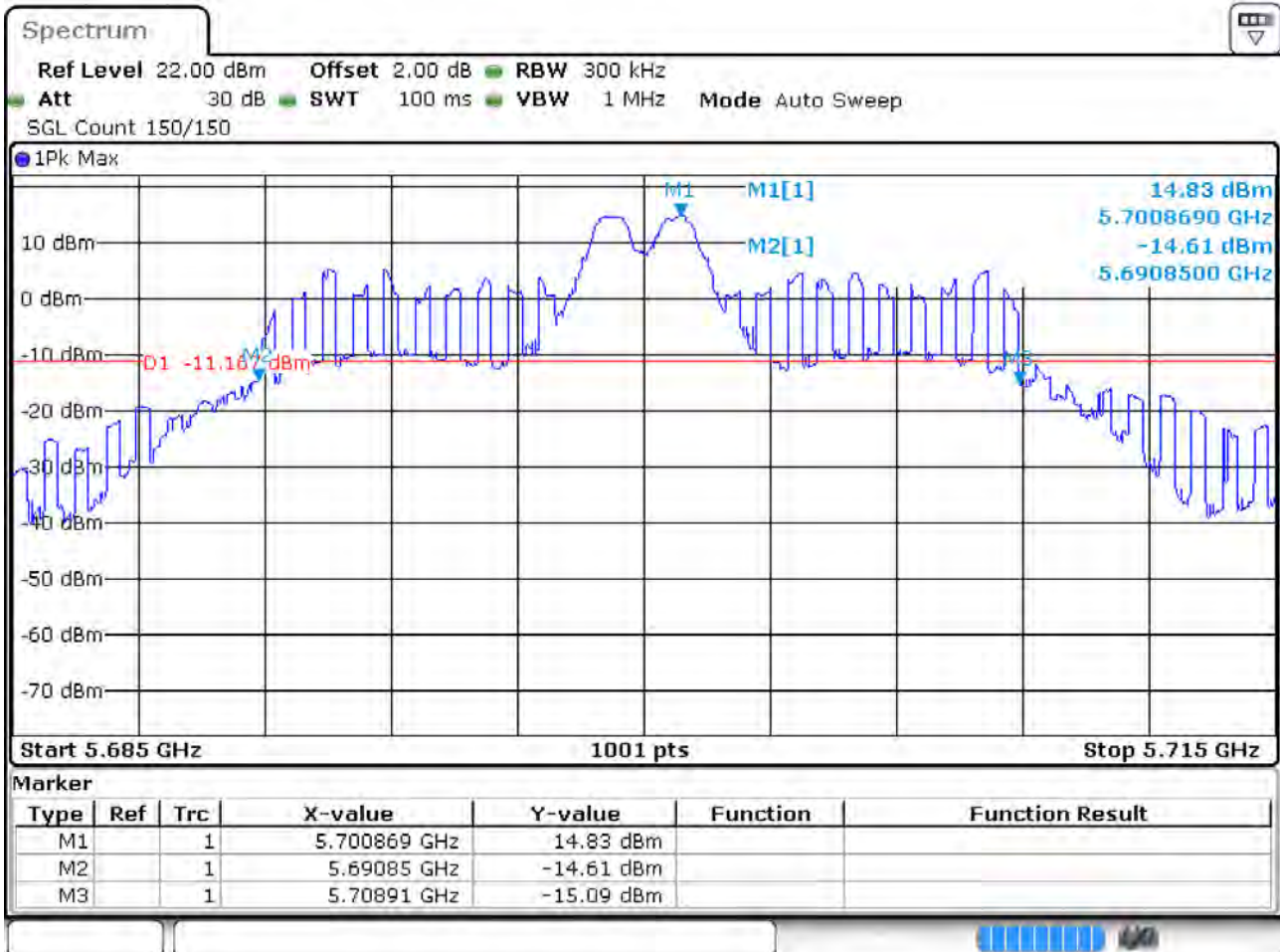


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**4.5.1.80 11AX20MIMO\_26T\_140 ANT 2**



Date: 11.APR.2020 07:58:30



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4.5.1.81 11AX20MIMO\_52T\_36 ANT 1



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**4.5.1.82 11AX20MIMO\_52T\_36 ANT 2**



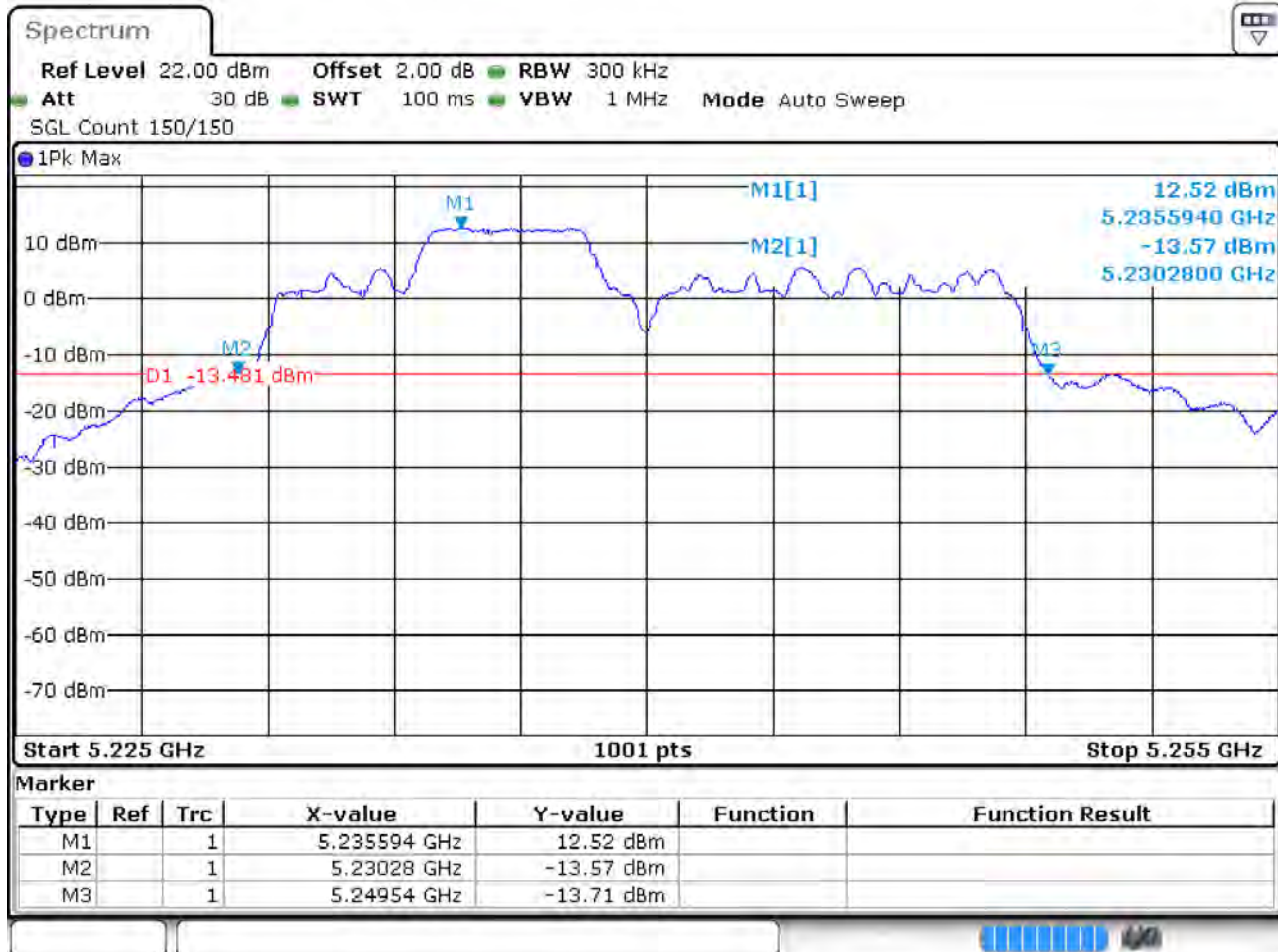
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**4.5.1.83 11AX20MIMO\_52T\_48 ANT 1**



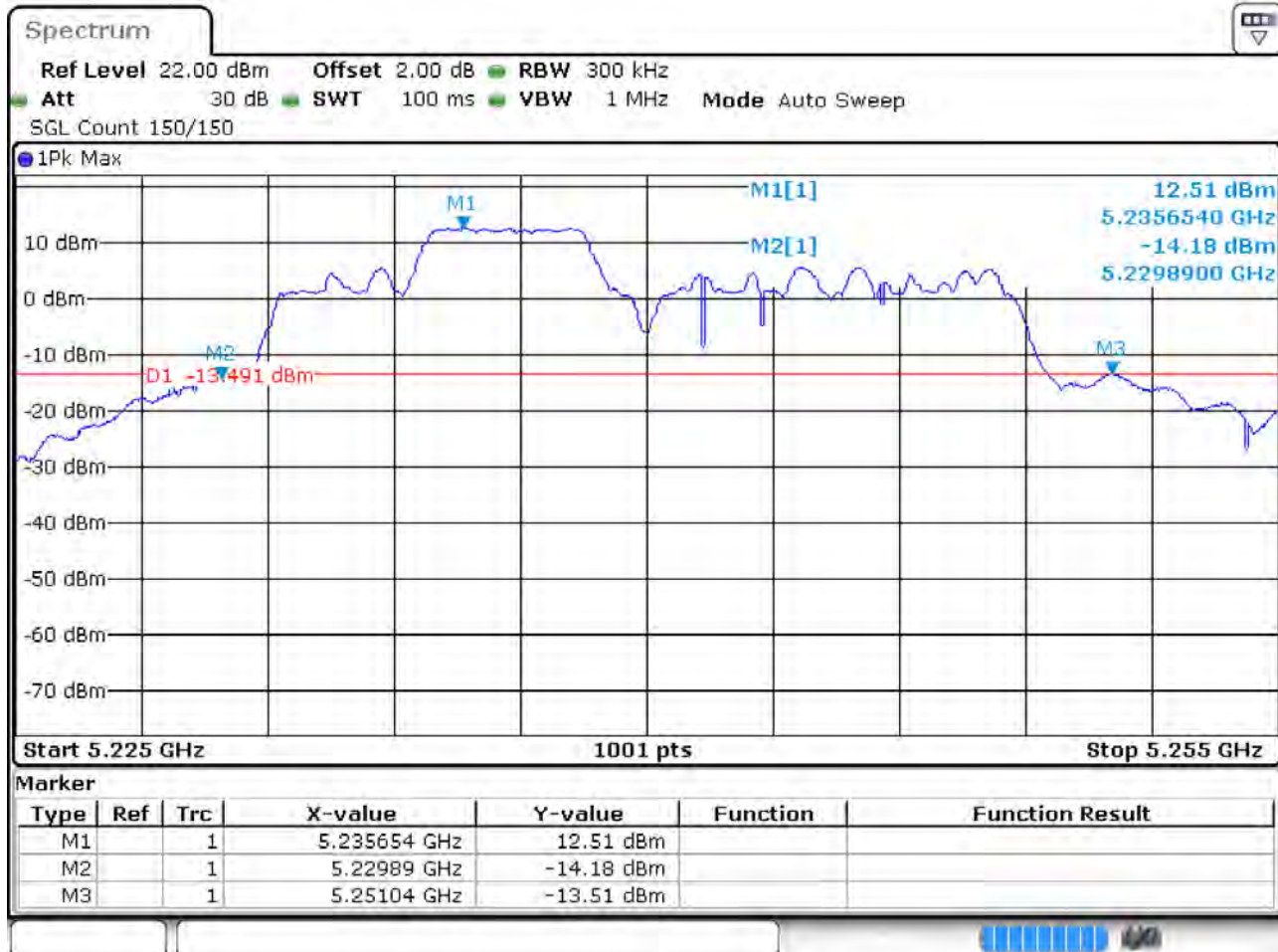
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**4.5.1.84 11AX20MIMO\_52T\_48 ANT 2**



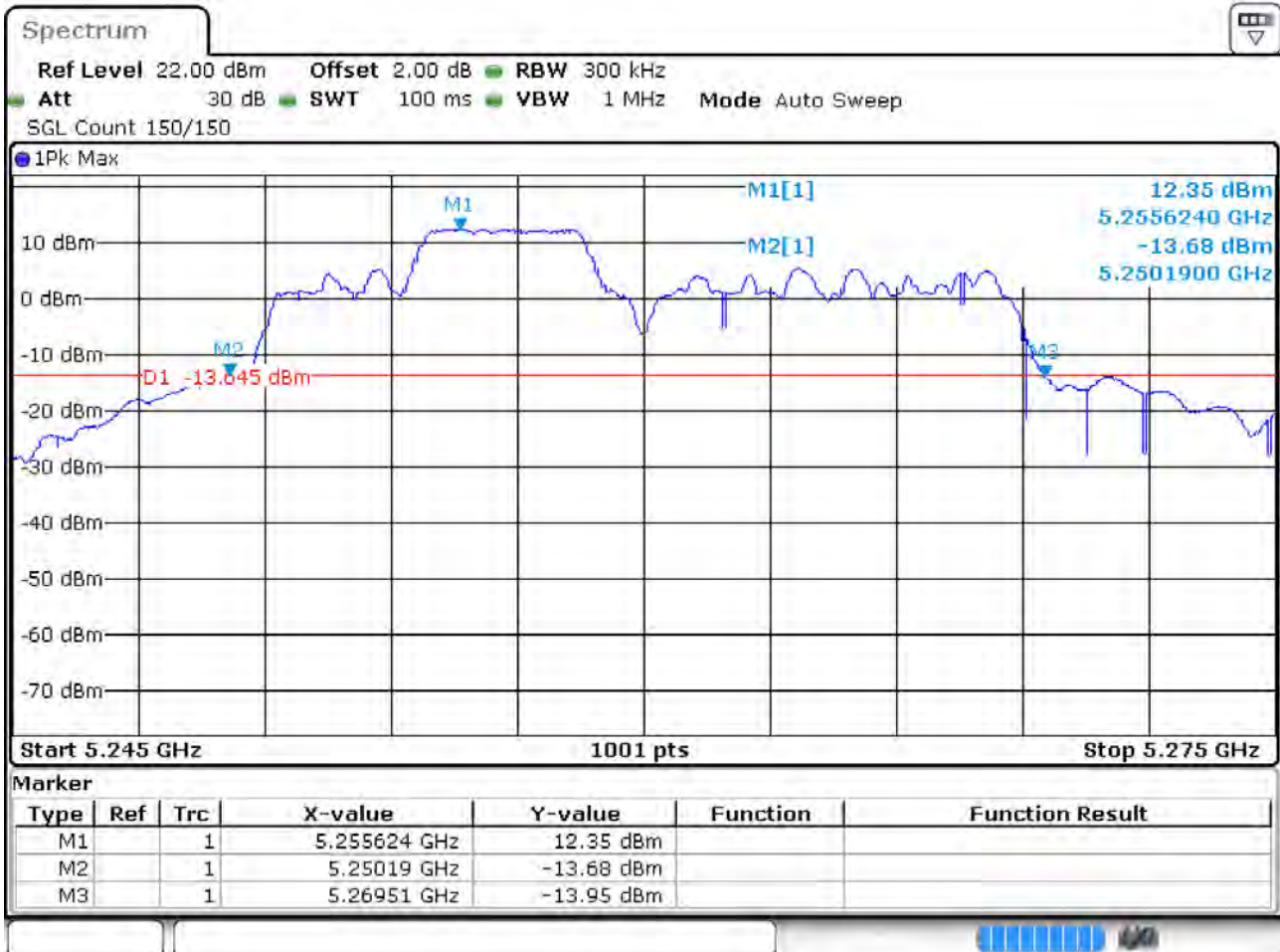
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**4.5.1.85 11AX20MIMO\_52T\_52 ANT 1**



Date: 11.APR.2020 08:47:33



**4.5.1.86 11AX20MIMO\_52T\_52 ANT 2**



Date: 11.APR.2020 08:47:33



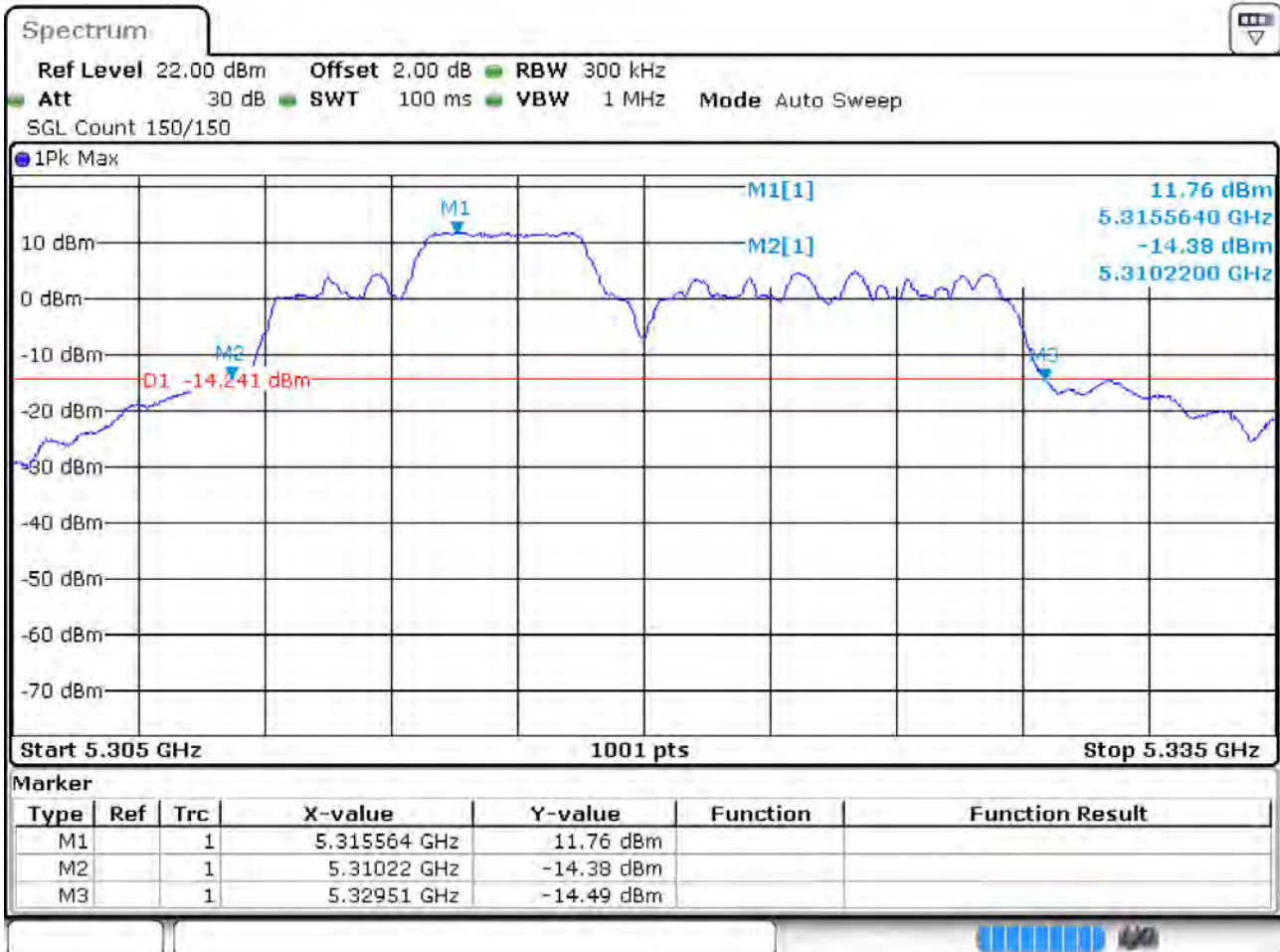
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**4.5.1.87 11AX20MIMO\_52T\_64 ANT 1**

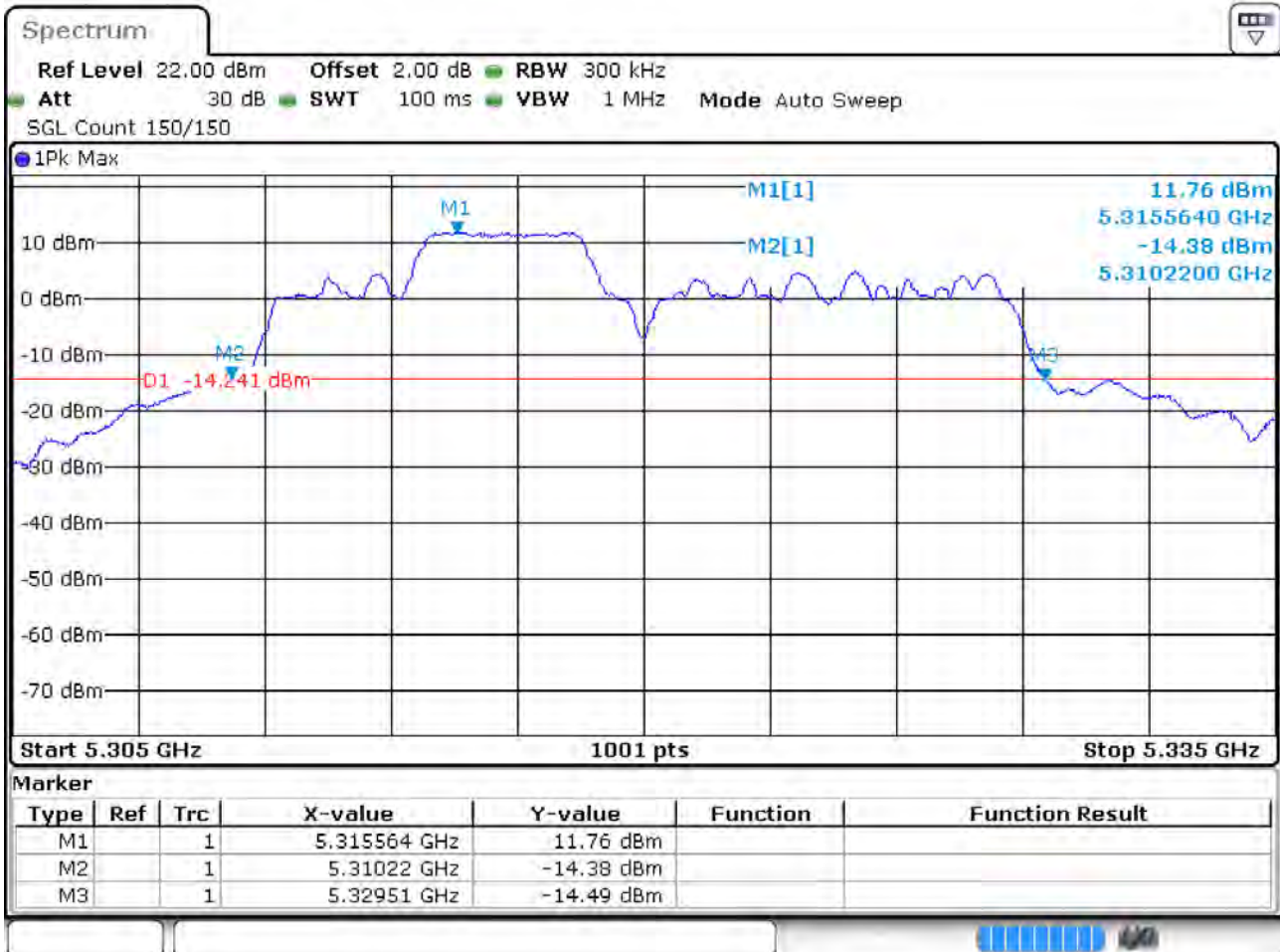


Date: 11.APR.2020 08:52:42





4.5.1.88 11AX20MIMO\_52T\_64 ANT 2



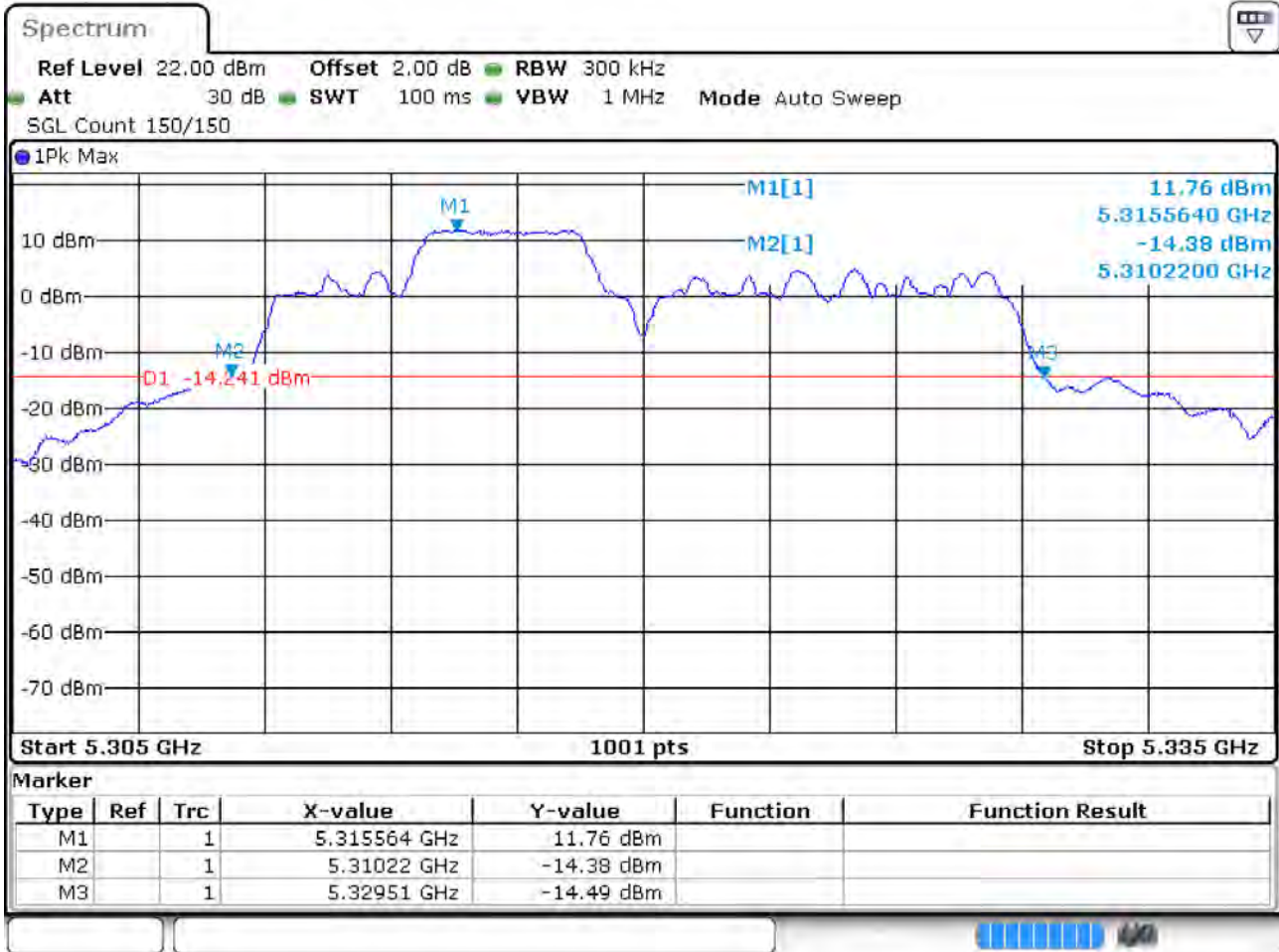
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**4.5.1.89 11AX20MIMO\_52T\_100 ANT 1**



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**4.5.1.90 11AX20MIMO\_52T\_100 ANT 2**



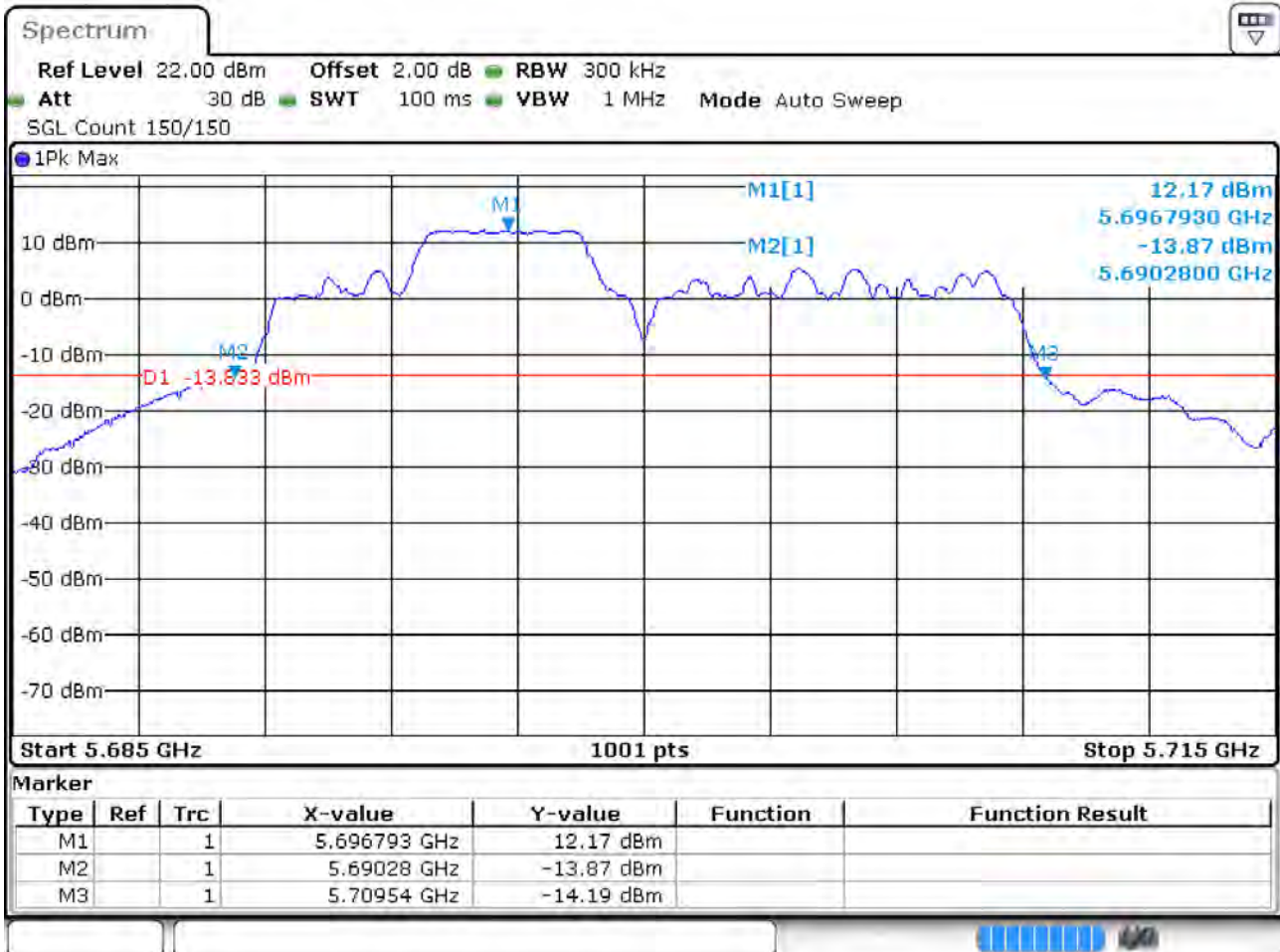
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4.5.1.91 11AX20MIMO\_52T\_140 ANT 1

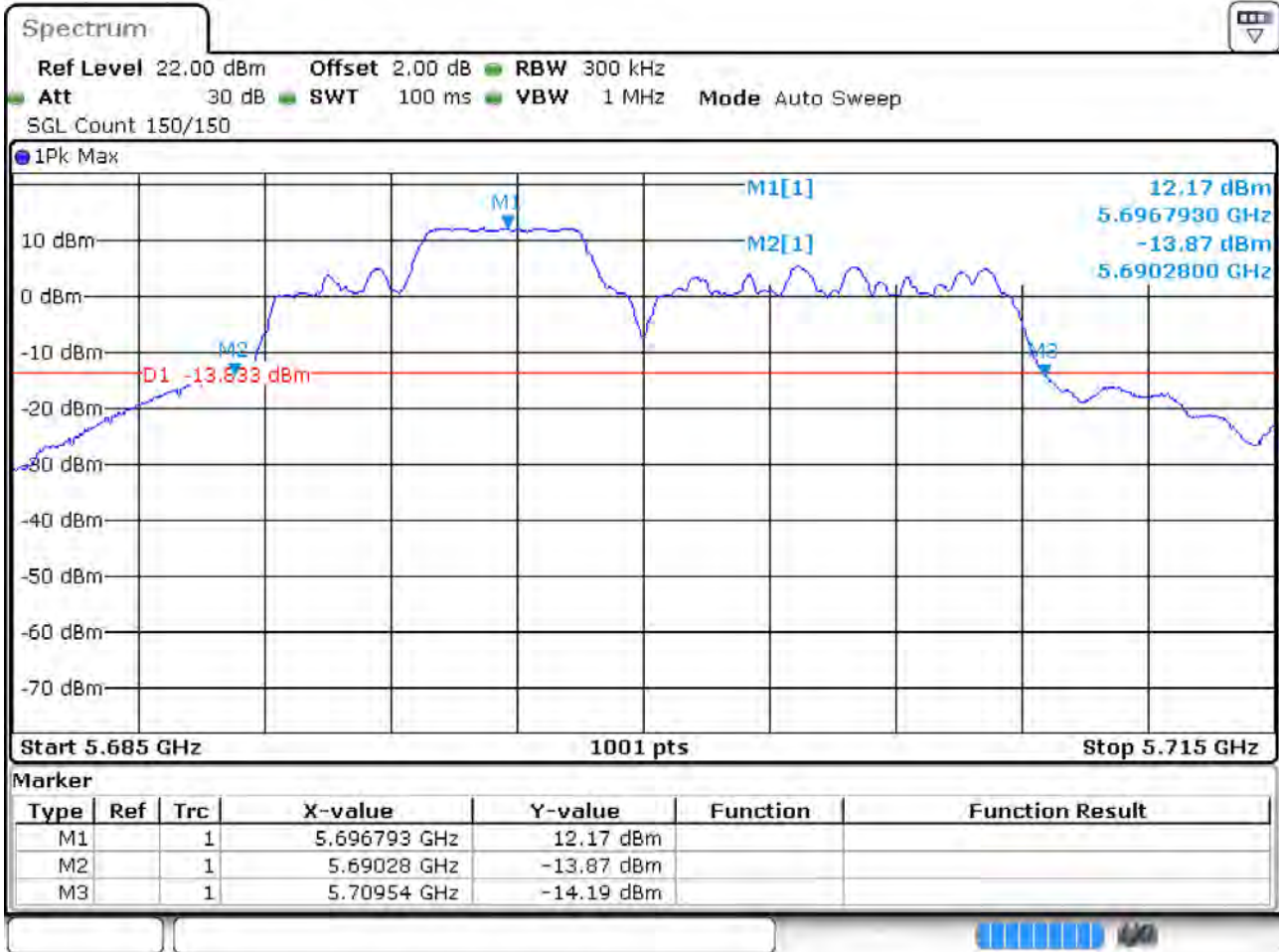


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4.5.1.92 11AX20MIMO\_52T\_140 ANT 2



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



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