# FCC TEST REPORT

| | |
|---|---|
| **Application No:** | ZR/2020/80004 |
| **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.:** | XT2091-3/XT2091-8 |
| **Trade Mark:** | Motorola/lenovo |
| **FCC ID:** | IHDT56ZK2 |
| **Standards:** | 47 CFR FCC Part 2, Subpart J<br>47 CFR FCC Part 15, Subpart C<br>47 CFR FCC Part 15, Subpart E |
| **Test Method:** | KDB 789033 D02 General UNII Test Procedures New Rules v02<br>FCC KDB 558074 D01 DTS Meas Guidance v0502<br>KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02<br>KDB 905462 D03 Client Without DFS New Rules v01r02<br>ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices |
| **Date of Receipt:** | 2020/9/2 |
| **Date of Test:** | 2020/9/3 to 2020/9/21 |
| **Date of Issue:** | 2021/4/20 |
| **Test Result:** | **PASS *** |

. * 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 | | 2021/4/20 | Kevin Lan | 1.Add test site Information<br>2.Modify data conversion error of antenna height<br>3.Update equipment list |
| | | | | |

| | | |
|---|---|---|
| **Authorized for issue by:** | | |
| **Prepared By** | | Kevin. lan<br>**(Kevin.Lan) /Engineer** |
| **Checked By** | | David Chen<br>**(David Chen) /Reviewer** |

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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 4.4 Clause 4.5 | 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. | | Pass | A |
| | 5250-5350 | | | | | |
| | 5470-5725 | | | | | |
| | 5725-5850 | | | | | |
| Duty Cycle | 5150-5850 | -- | No limit. | | Pass | A |
| Maximum Conducted Output Power | 5150-5250 | 15.407(a)(1) 15.407(a)(4) | FCC < 250mW (avg during transmission) | Clause 4.3 | | |
| | 5250-5350 | 15.407(a)(2) 15.407(a)(4) | <MIN{250mW,11dBm+10*lg(EBW)} (avg during transmission) | | | |
| | 5470-5725 | 15.407(a)(2) 15.407(a)(4) | <MIN{250mW,11dBm+10*lg(EBW)} (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 4.6 | | |
| | 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 4.7 | 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: | | | |

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| Test Item | Band | FCC Rule | Requirements | Test Result | Verdict | Test Lab* |
|---|---|---|---|---|---|---|
| | | | §15.209/§7.2.5 limit (AV&PK). | | | |
| | 5470-5750 | 15.407(b)(3)<br>15.407(b)(6)<br>15.407(b)(7)<br>15.209 | F<1GHz:<br>§15.209/§7.2.5 limit (QP).<br>F≥1GHz & out-restricted:<br><-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz).<br>F≥1GHz & in-restricted:<br>§15.209/§7.2.5 limit (AV&PK). | | | |
| | 5725-5850 | 15.407(b)(4)<br>15.407(b)(6)<br>15.407(b)(7)<br>15.209 | F<1GHz:<br>§15.209/§7.2.5 limit (QP)<br>F≥1GHz &out-restricted:(QP)<br>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;<br>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;<br>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<br>d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.<br>F≥1GHz & in-restricted:<br>§15.209/§7.2.5 limit (AV&PK). | | | |
| Unwanted Emissions in the Restricted Bands (Radiated) | 5150-5250<br>5250-5350<br>5470-5725<br>5725-5850 | 15.209 | | Clause 4.8 | Pass | B |
| AC Power Line Conducted Emissions | 5150-5250<br>5250-5350<br>5470-5725<br>5725-5850 | 15.207 | | Clause 4.2 | Pass | B |
| Frequency | 5150- | 15.209 | | Clause | Pass | A |

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| Test Item | Band | FCC Rule | Requirements | Test Result | Verdict | Test Lab* |
|---|---|---|---|---|---|---|
| Stability | 5250<br>5250-5350<br>5470-5600<br>5650-5725<br>5725-5850 | | | 4.9 | | |
| Dynamic Frequency Selection | 5250-5350<br>5470-5725 | 47 CFR Part 15, Subpart E 15.407 | Channel Move Time:10 Seconds<br>Transmission Time: milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>Non-occupancy period: Minimum 30 minutes | Clause 4.10 | Pass | A |

Remark：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.

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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, Mike Hu |

**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, Lean Chen |

## 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**

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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)**

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**• FCC –Designation Number: CN1271**

## 3.4 General Description of EUT

| | |
|---|---|
| EUT Description: | Mobile Phone |
| Model No.: | XT2091-3/XT2091-8 |
| Trade Mark: | Motorola/lenovo |
| Hardware Version: | DVT2 |
| Software Version: | QZC30.Q4-22 |
| IEEE 802.11 WLAN Mode Supported: | ☒ 802.11a (20 MHz channel bandwidth) ;<br>☒ 802.11n (20 MHz channel bandwidth);<br>☒ 802.11n (40 MHz channel bandwidth);<br>☒ 802.11ac (20 MHz channel bandwidth);<br>☒ 802.11ac (40 MHz channel bandwidth);<br>☒ 802.11ac (80 MHz channel bandwidth); |
| Operation Frequency: | IEEE 802.11n(HT20/40)/ ac(HT20/40/80/): 5150MHz to 5250MHz<br>IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5250MHz to 5350MHz<br>IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5470MHz to 5725MHz<br>IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz |
| Type of Modulation: | OFDM |
| DFS mode: | ☐Master ☐ Slave with radar detection ☒Slave without radar detection |
| Sample Type: | ☒ Portable Device, ☐Module |
| Antenna Type: | ☐ External, ☒ Integrated |
| Antenna Ports | ☒ Ant 1, ☐ Ant 2, ☐ Ant 3 |
| Smart System | ☒ SISO (for 802.11a/n/ac),<br>☐ MIMO (for 802.11n/ac), |

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| | |
|---|---|
| | ☐ Diversity (for 802.11a) : Tx & Rx |
| Antenna Gain: | -6.1dBi, |
| Power Supply | ☒ AC/DC Adapter; ☐ PoE:; ☐ 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 |
| | 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 |

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| | | |
|---|---|---|
| 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 |

## 3.5 Test Environment and Mode

| **Operating Environment:** | |
|---|---|
| Temperature: | 25.0 °C |
| Humidity: | 55 % RH |
| Atmospheric Pressure: | 101.32 KPa |
| **Test mode:** | |
| 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

| **Test Requirement:** | 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

| | | | |
|---|---|---|---|
| Test Requirement: | 47 CFR Part 15 Section 15.407(b) | | |
| Test Method: | ANSI C63.10: 2013 | | |
| Test Frequency Range: | 150kHz to 30MHz | | |
| Limit: | 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. | | |
| Test Procedure: | 1) The mains terminal disturbance voltage test was conducted in a shielded room.<br>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.<br>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,<br>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.<br>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. | | |

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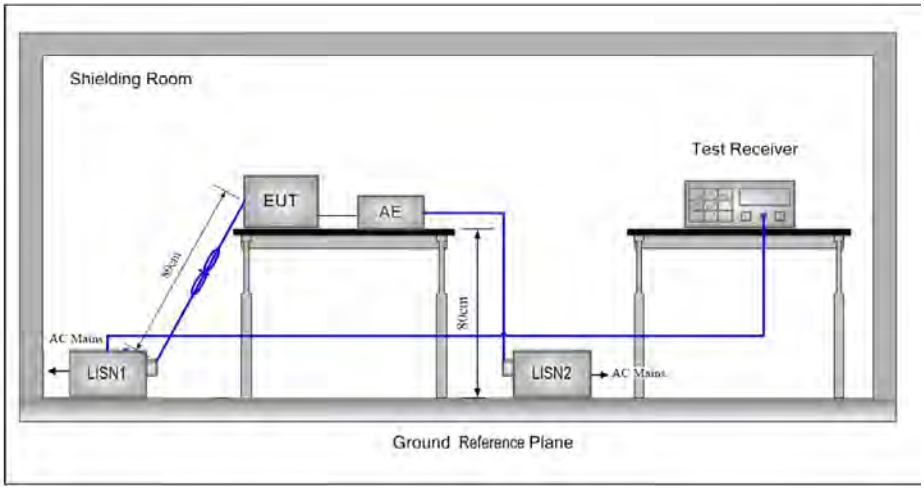
| | |
|---|---|
| Test Setup: |  |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. |
| Final Test Mode: | Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case.<br>Only the worst case is recorded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

**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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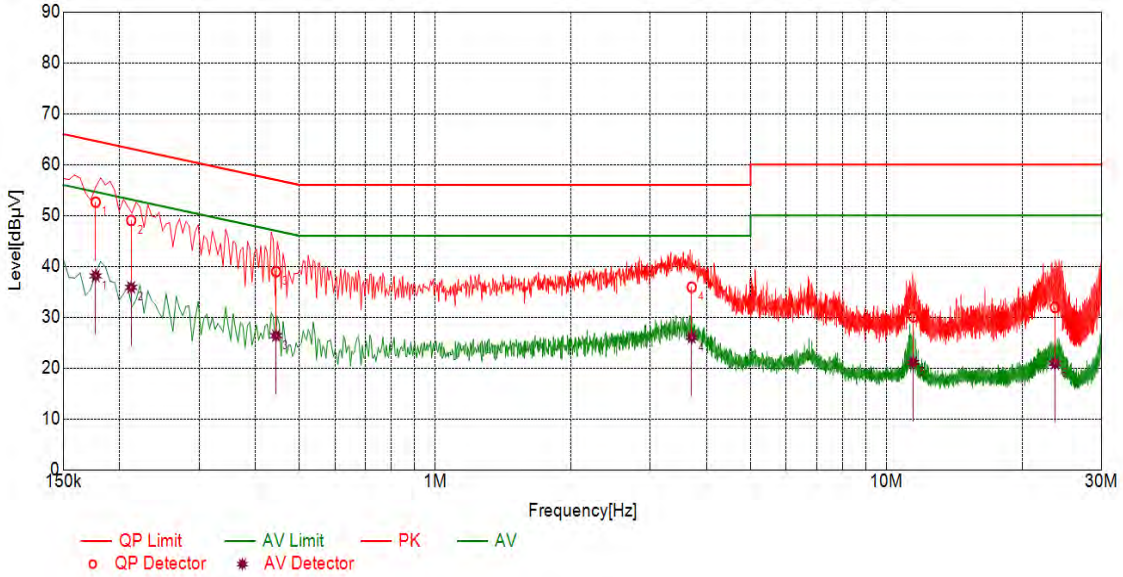
Live Line:




**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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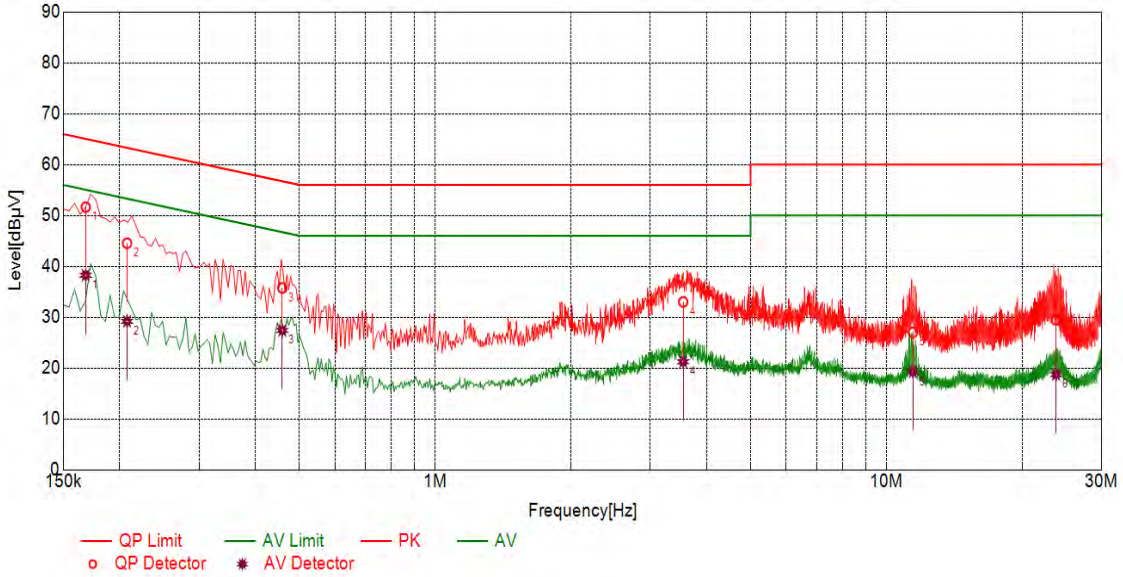
Neutral Line:




**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

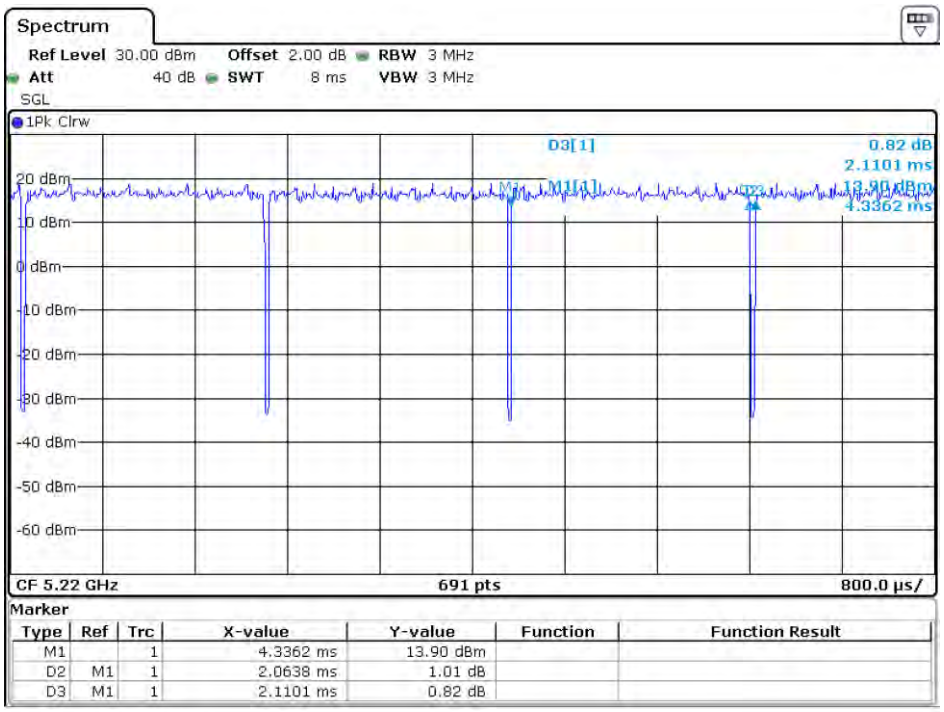
### 4.3.1 Test Results

| 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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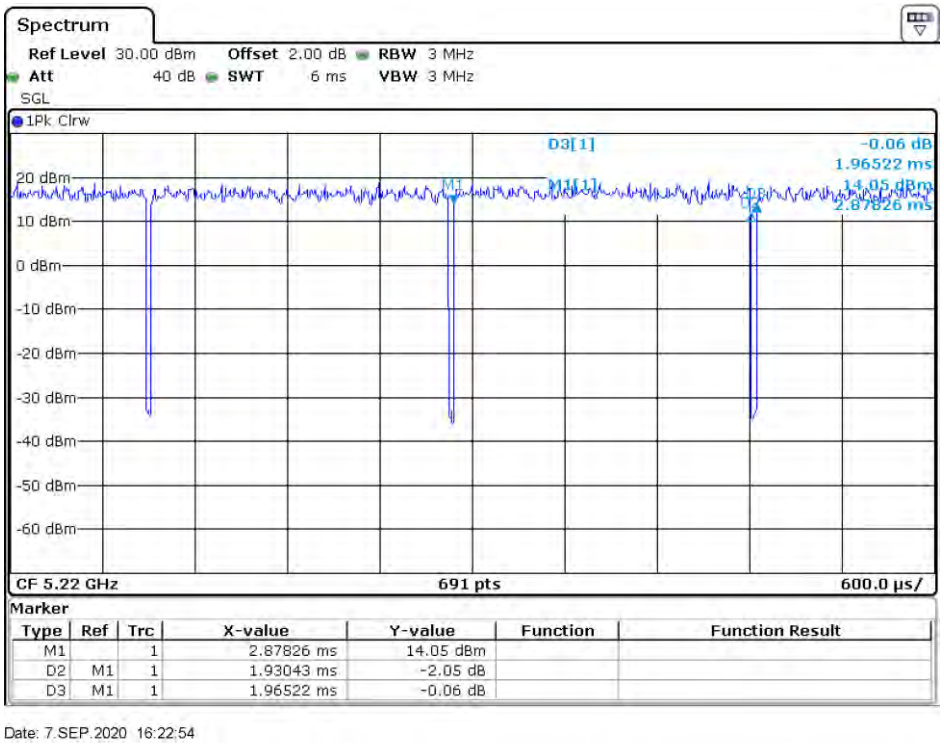
### 4.3.1.1.2 11N20

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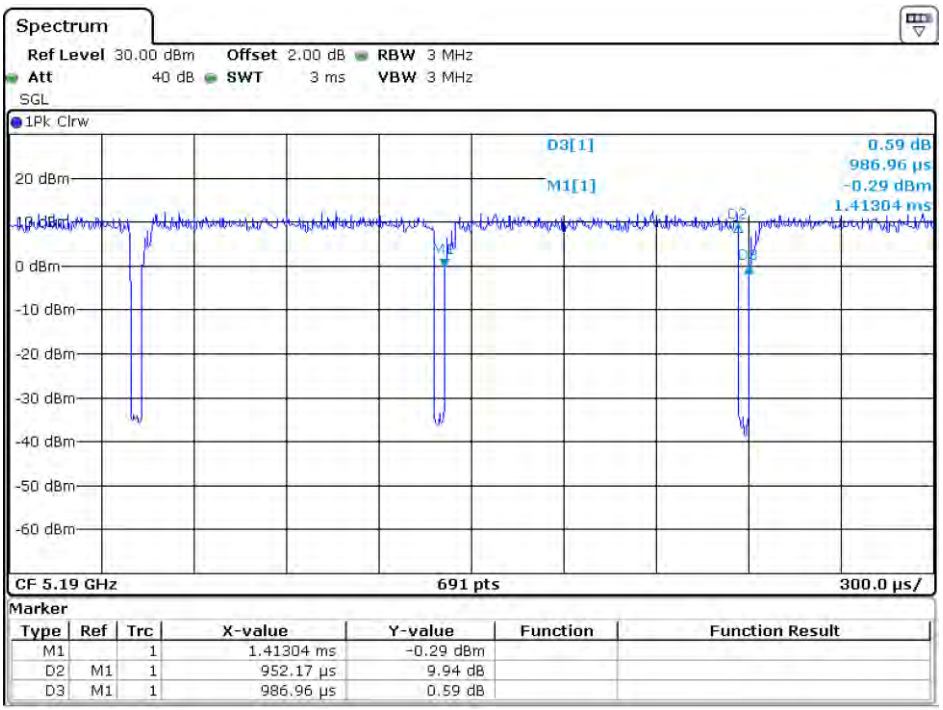
### 4.3.1.1.3 11N40

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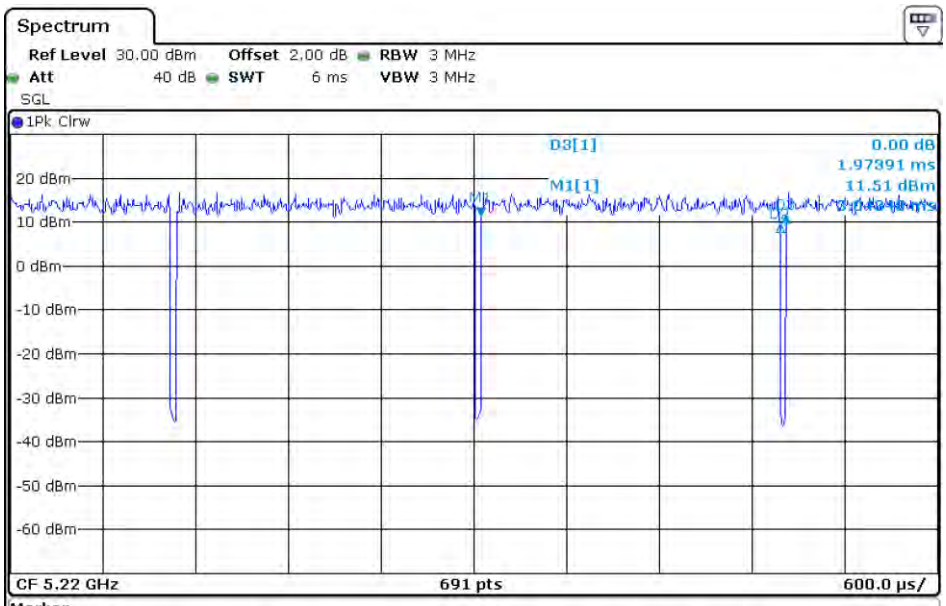
### 4.3.1.1.4 11AC20

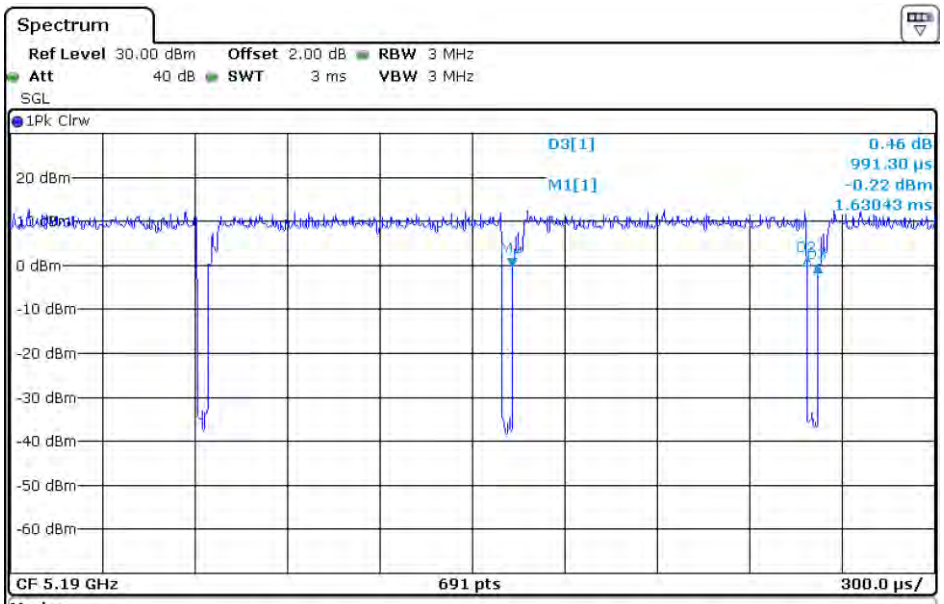



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 3.04348 ms | 11.51 dBm | | |
| D2 | M1 | 1 | 1.93913 ms | -2.10 dB | | |
| D3 | M1 | 1 | 1.97391 ms | 0.00 dB | | |

Date: 7.SEP.2020 16:25:09

### 4.3.1.1.5 11AC40




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 1.63043 ms | -0.22 dBm | | |
| D2 | M1 | 1 | 956.52 µs | 2.07 dB | | |
| D3 | M1 | 1 | 991.3 µs | 0.46 dB | | |

Date: 7.SEP.2020 16:28:47

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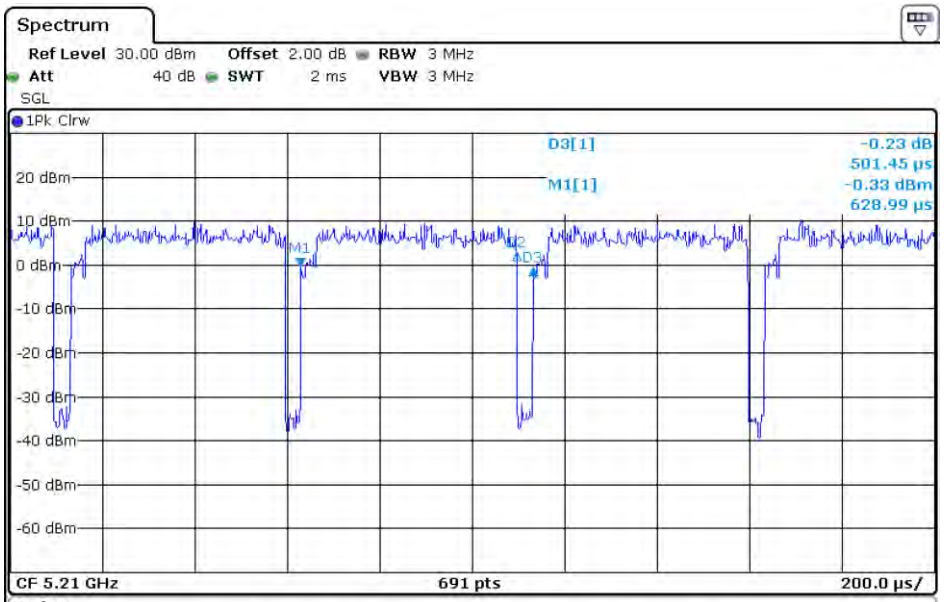
### 4.3.1.1.6 11AC80

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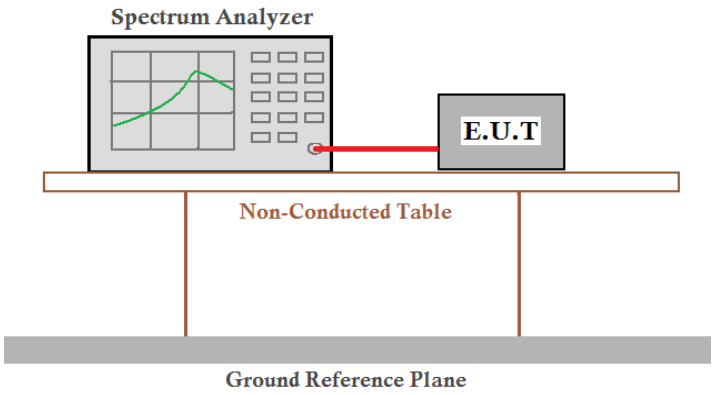
## 4.4 Conducted Output Power

| | | |
|---|---|---|
| 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: | Through Pre-scan, find that<br>6Mbps of rate is the worst case of 802.11a;<br>MCS0 of rate is the worst case of 802.11n(HT20);<br>MCS0 of rate is the worst case of 802.11n(HT40);<br>MCS0 of rate is the worst case of 802.11ac(HT20);<br>MCS0 of rate is the worst case of 802.11ac(HT40);<br>MCS0 of rate is the worst case of 802.11ac(HT80)<br>Only the worst case is recorded in the report. | |
| 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 | |

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### 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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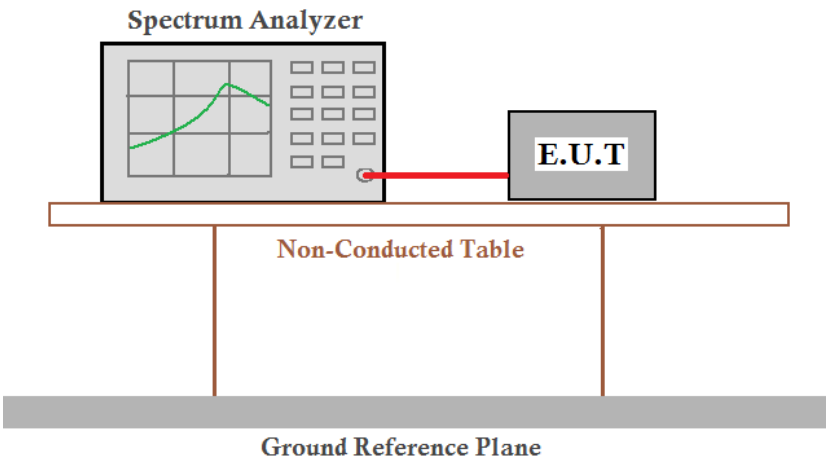
## 4.5 26dB Emission Bandwidth

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a) |
| Test Method: | ANSI C63.10: 2013 |
| Test Setup: |  |
| 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<br>6Mbps of rate is the worst case of 802.11a;<br>MCS0 of rate is the worst case of 802.11n(HT20);<br>MCS0 of rate is the worst case of 802.11n(HT40);<br>MCS0 of rate is the worst case of 802.11ac(HT20);<br>MCS0 of rate is the worst case of 802.11ac(HT40);<br>MCS0 of rate is the worst case of 802.11ac(HT80).<br>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 |
| | 140 | 5700 | ANT 1 | 21.27 | PASS |
| 11N40 | 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 |
| | 134 | 5670 | ANT 1 | 44.7 | PASS |
| 11AC20 | 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 |
| | 116 | 5580 | ANT 1 | 21.21 | PASS |
| | 140 | 5700 | ANT 1 | 21.24 | PASS |
| 11AC40 | 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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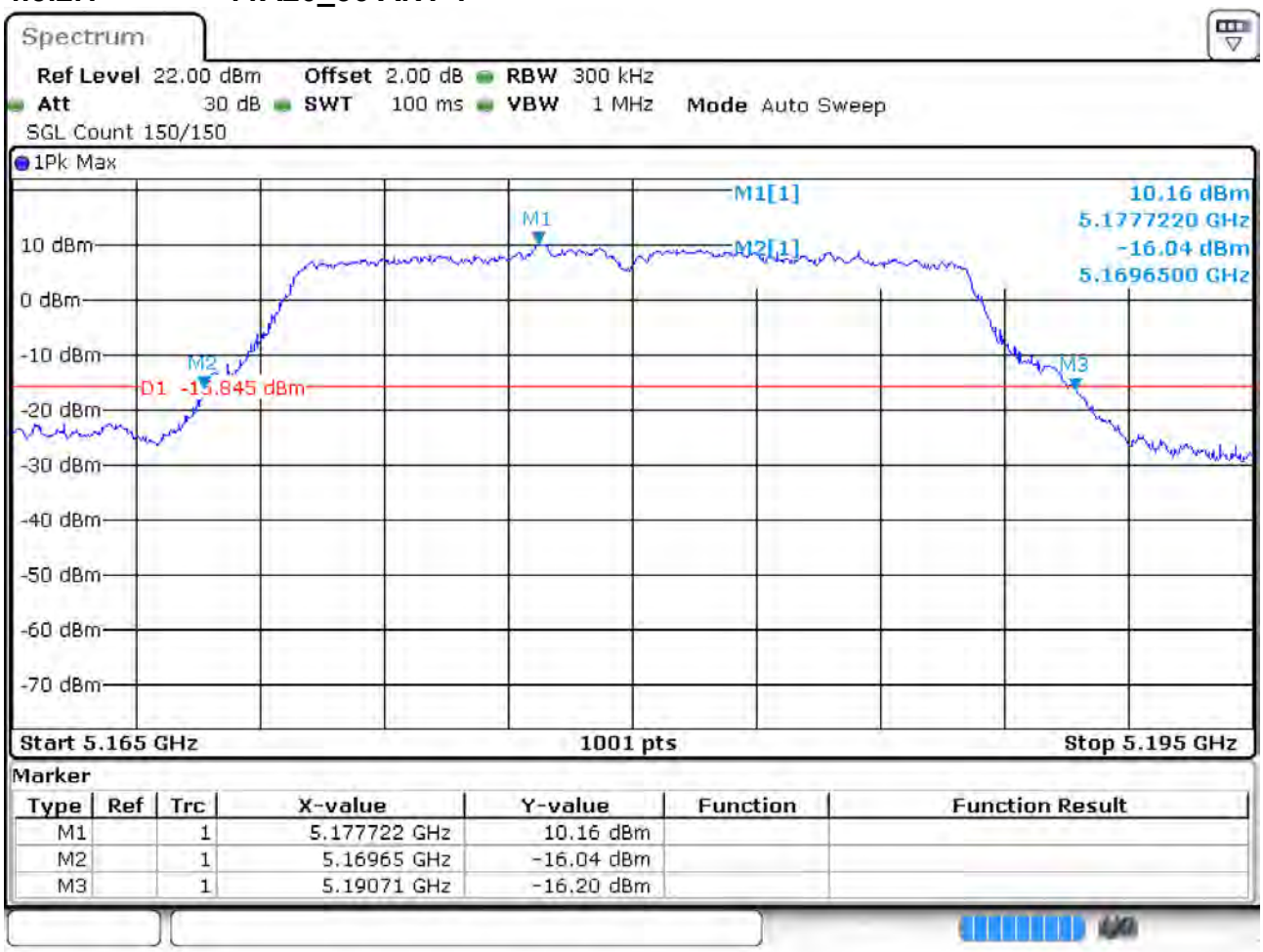
### 4.5.2 Plots for 26dB Emission Bandwidth

#### 4.5.2.1 11A20_36 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.177722 GHz | 10.16 dBm | | |
| M2 | | 1 | 5.16965 GHz | -16.04 dBm | | |
| M3 | | 1 | 5.19071 GHz | -16.20 dBm | | |

Date: 11.SEP.2020 15:47:05

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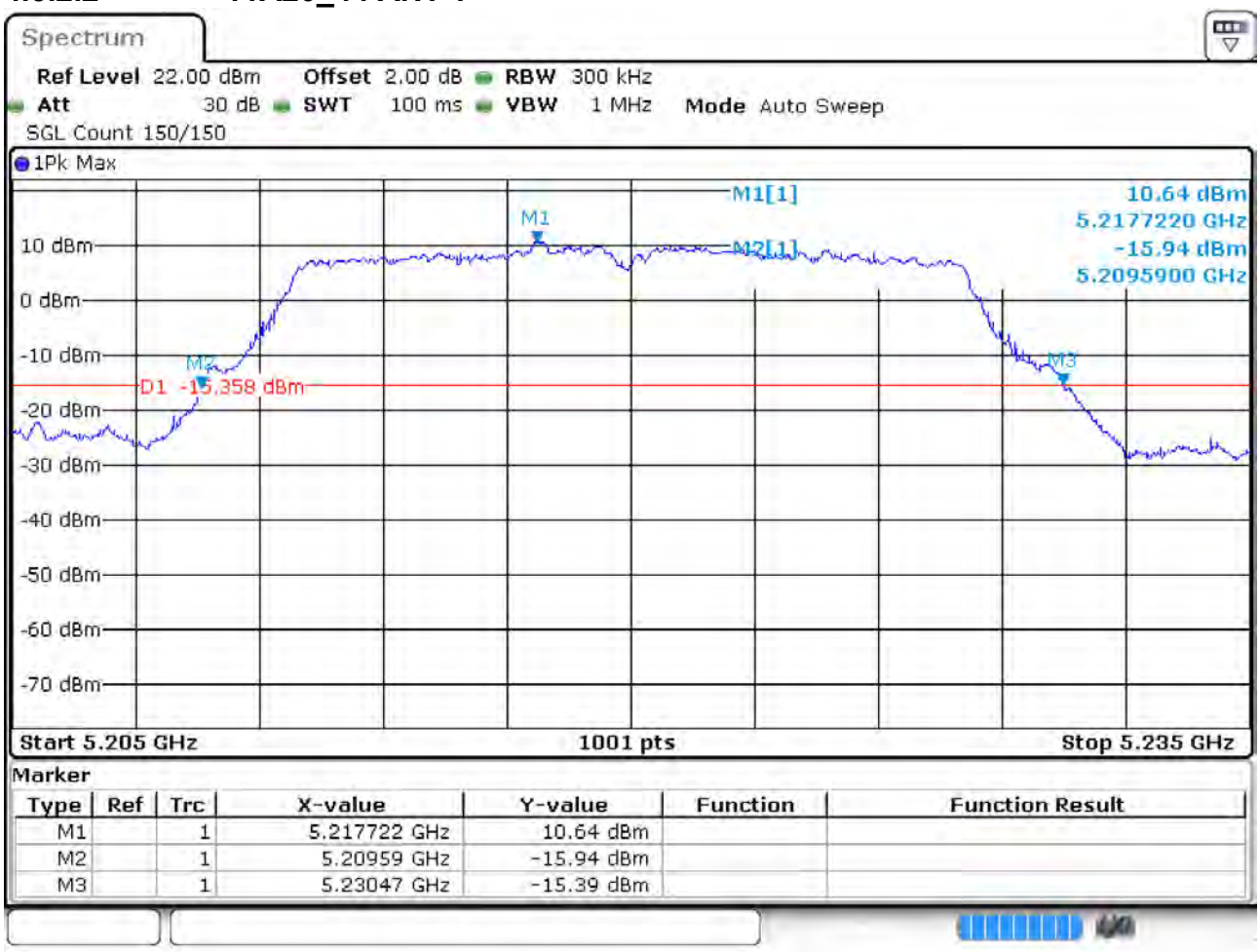
### 4.5.2.2 11A20_44 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.217722 GHz | 10.64 dBm | | |
| M2 | | 1 | 5.20959 GHz | -15.94 dBm | | |
| M3 | | 1 | 5.23047 GHz | -15.39 dBm | | |

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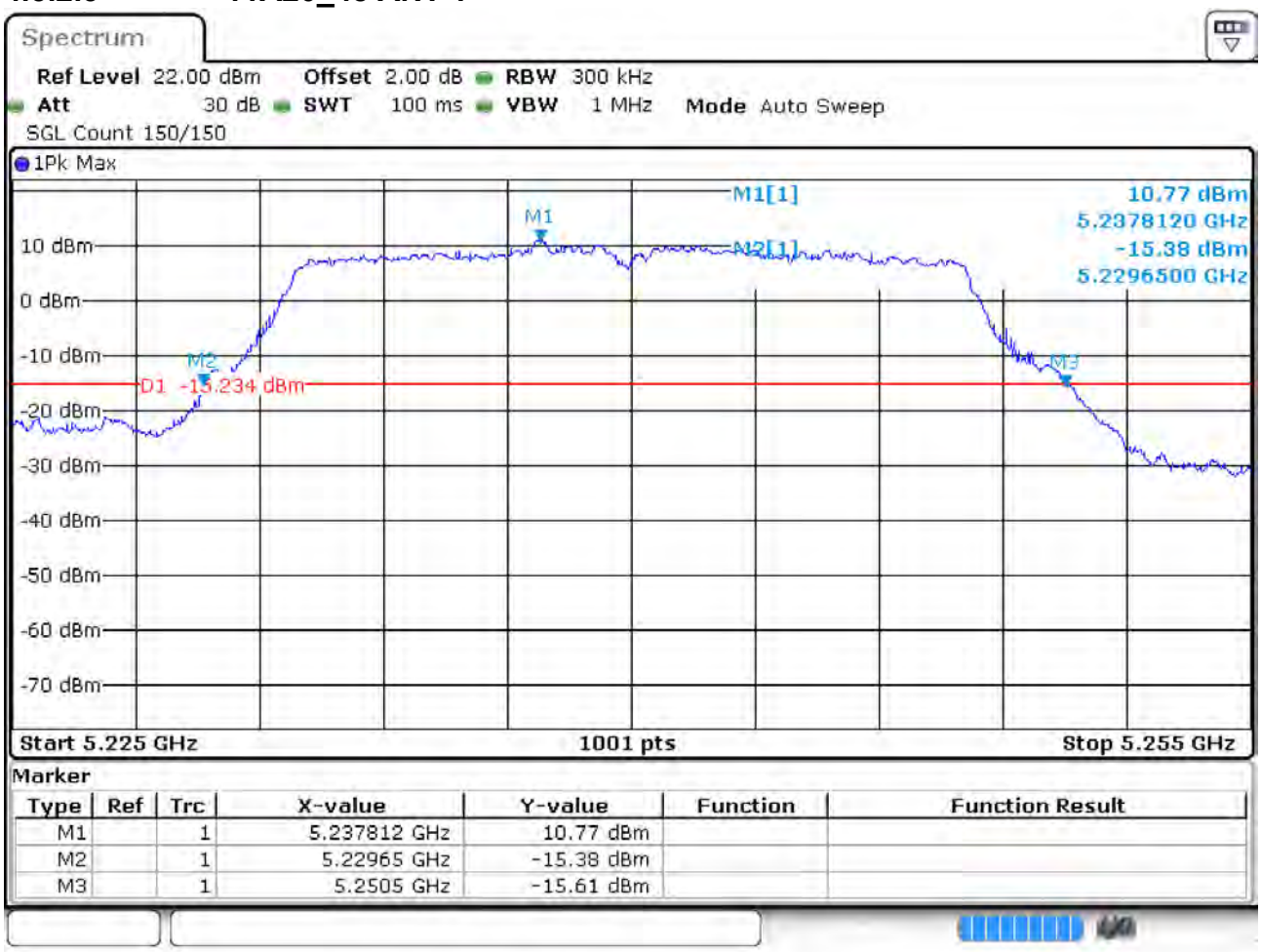
### 4.5.2.3 11A20_48 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.237812 GHz | 10.77 dBm | | |
| M2 | | 1 | 5.22965 GHz | -15.38 dBm | | |
| M3 | | 1 | 5.2505 GHz | -15.61 dBm | | |

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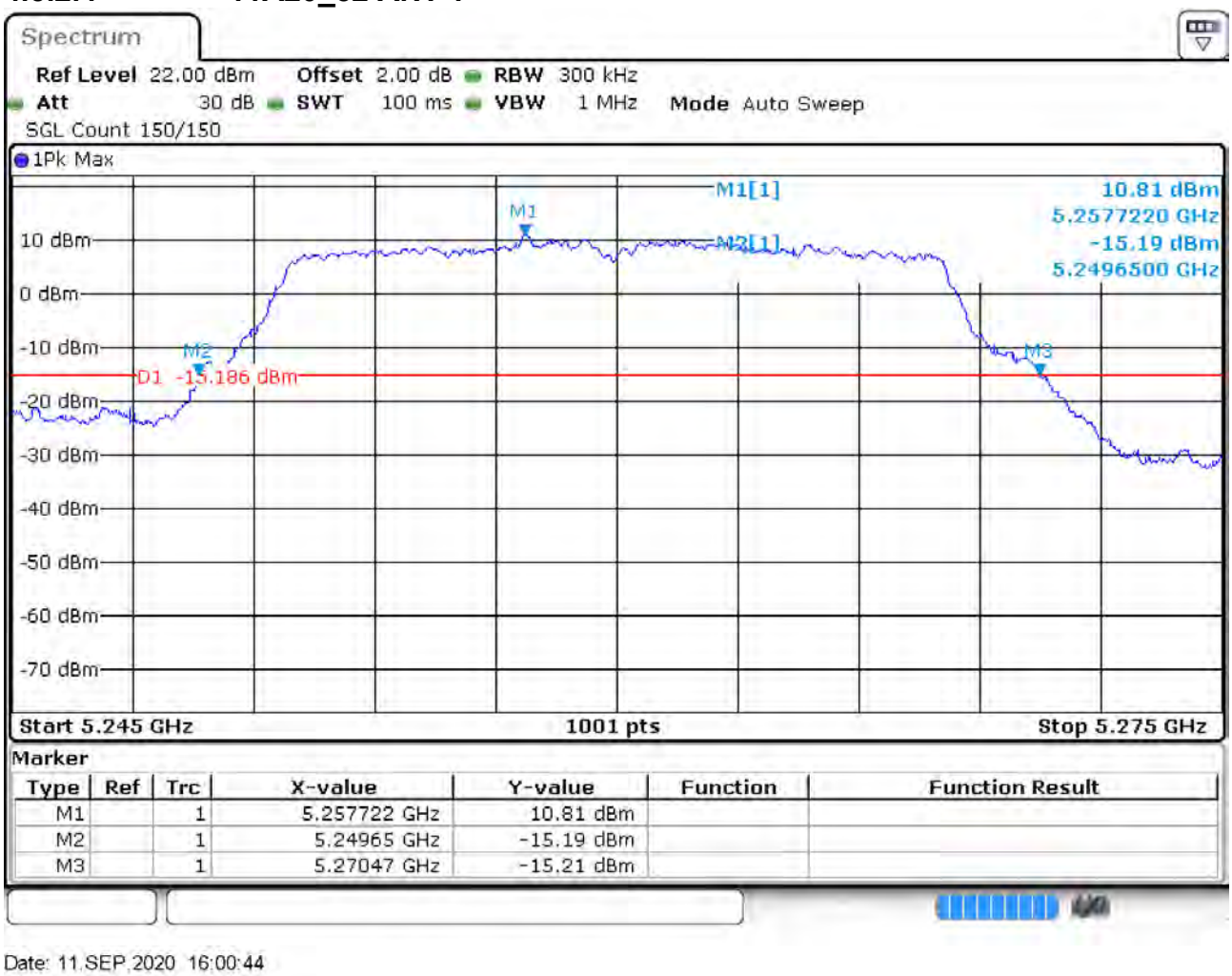
### 4.5.2.4 11A20_52 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.257722 GHz | 10.81 dBm | | |
| M2 | | 1 | 5.24965 GHz | -15.19 dBm | | |
| M3 | | 1 | 5.27047 GHz | -15.21 dBm | | |

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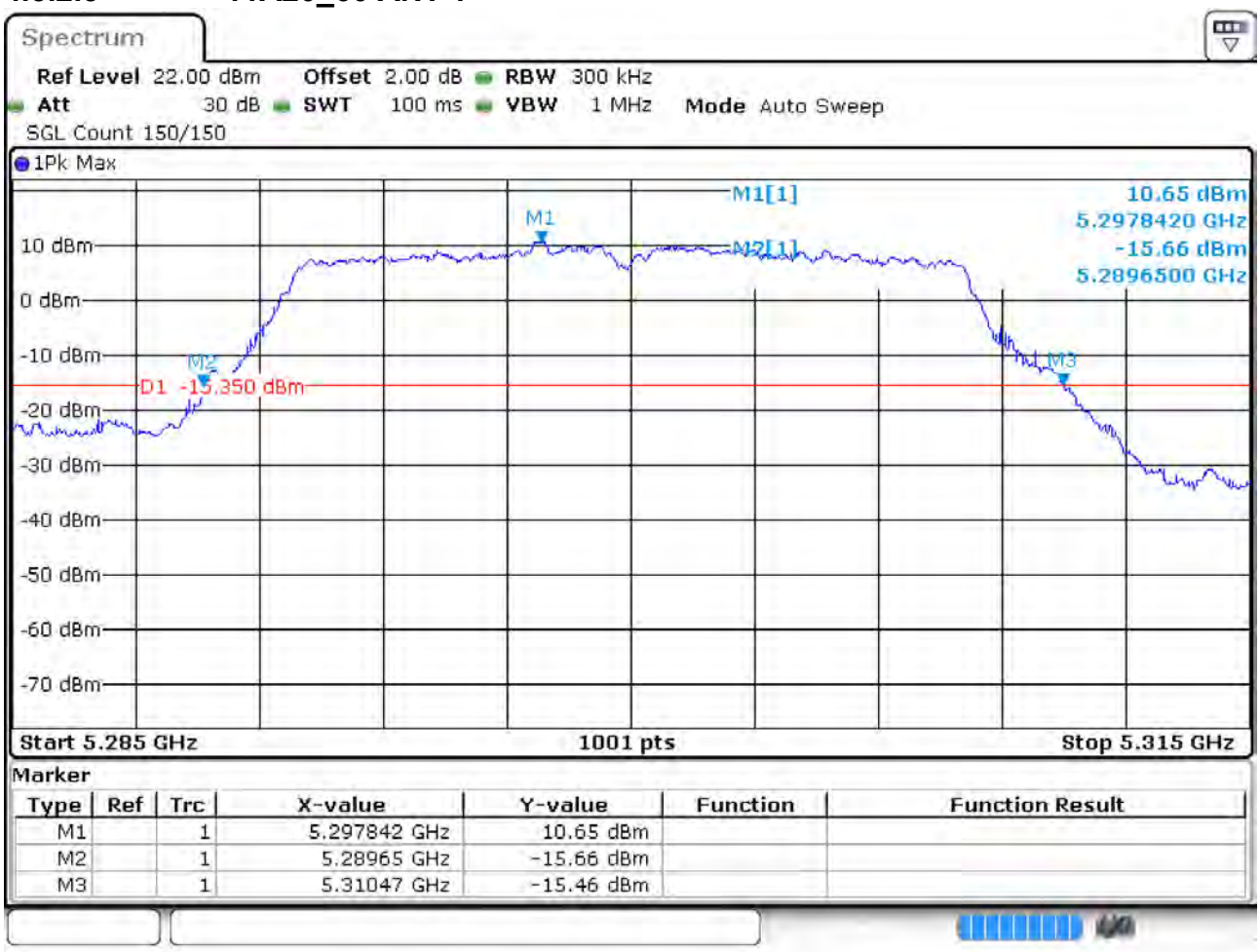
### 4.5.2.5 11A20_60 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.297842 GHz | 10.65 dBm | | |
| M2 | | 1 | 5.28965 GHz | -15.66 dBm | | |
| M3 | | 1 | 5.31047 GHz | -15.46 dBm | | |

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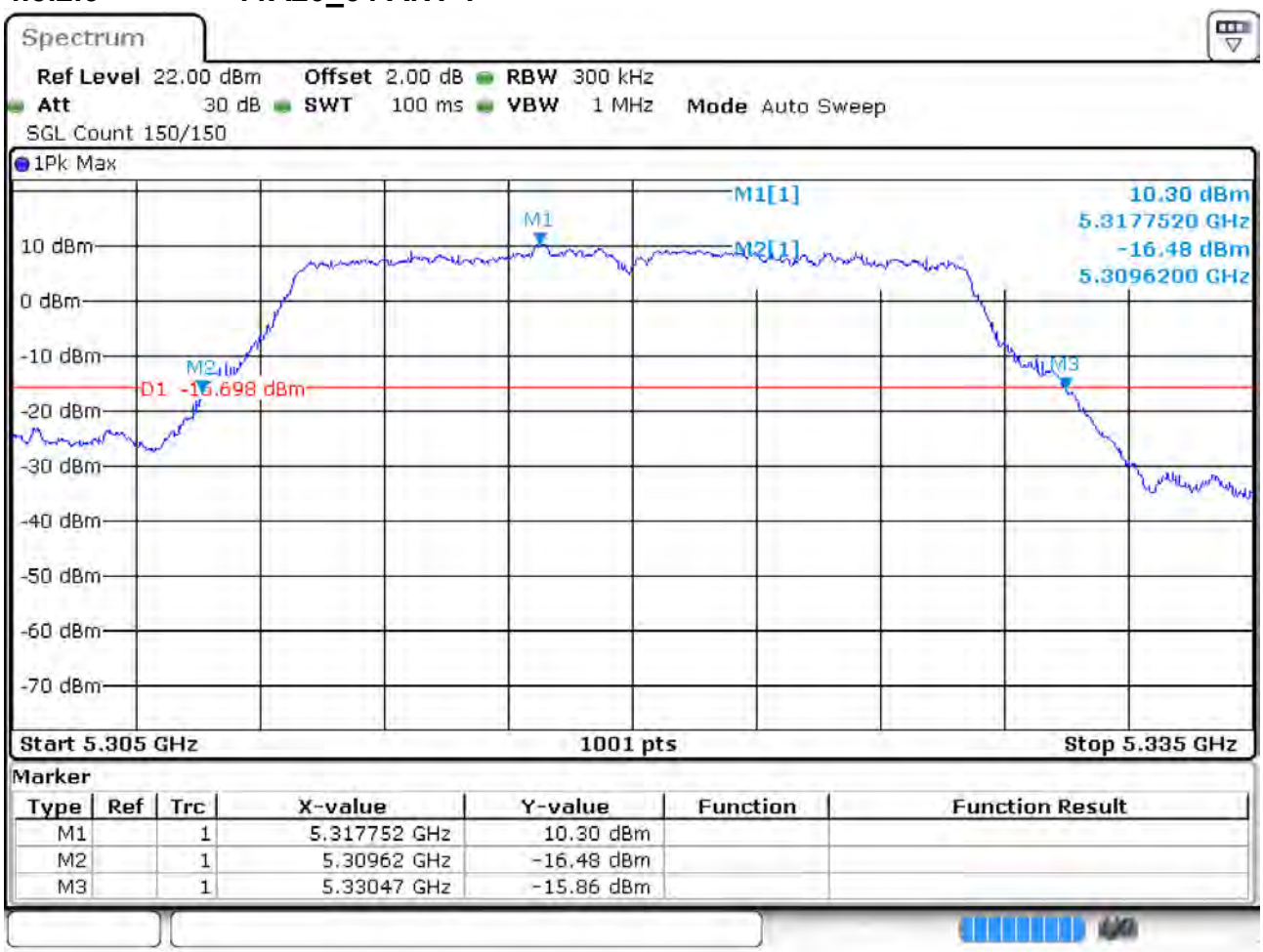
### 4.5.2.6 11A20_64 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.317752 GHz | 10.30 dBm | | |
| M2 | | 1 | 5.30962 GHz | -16.48 dBm | | |
| M3 | | 1 | 5.33047 GHz | -15.86 dBm | | |

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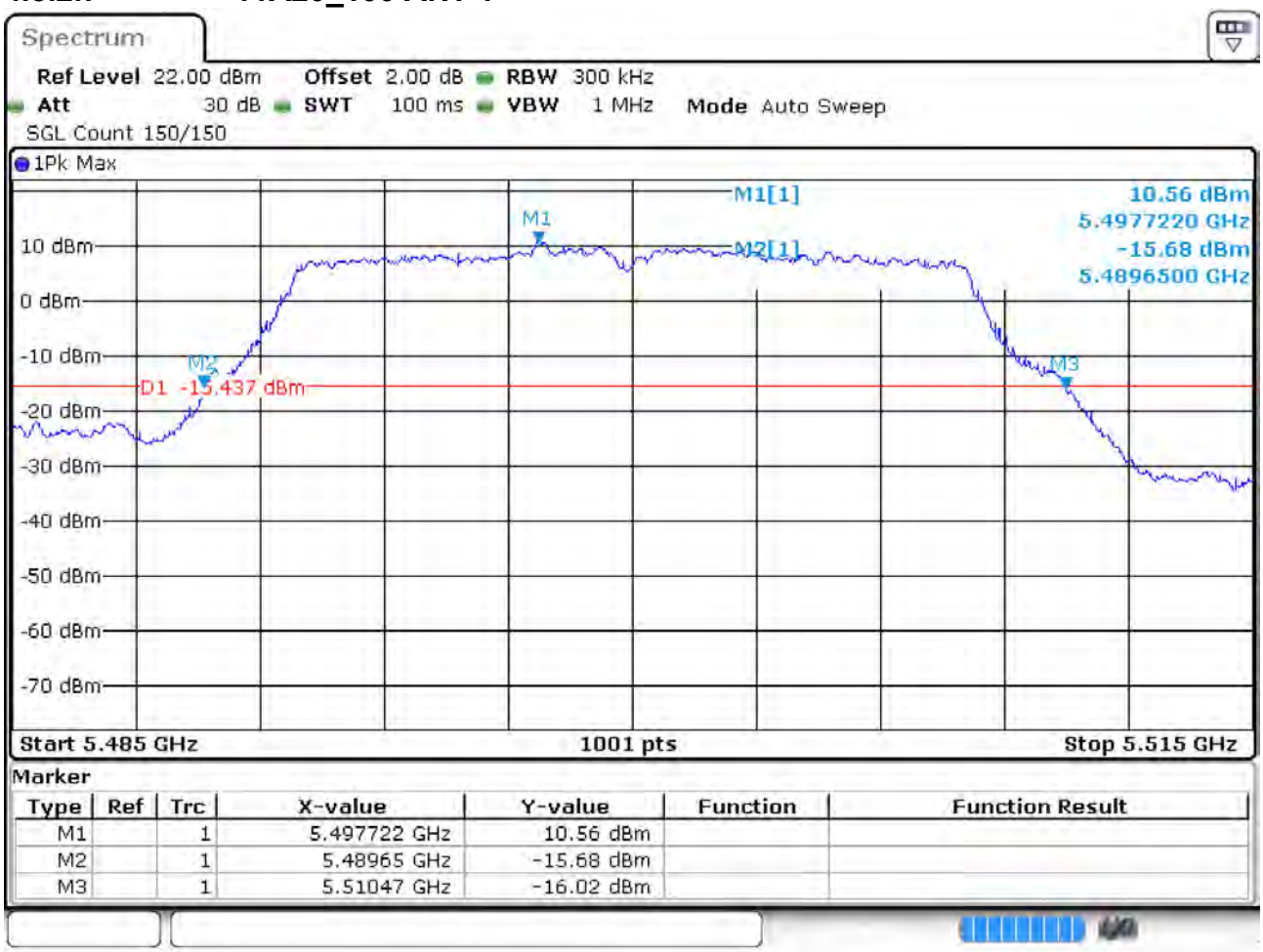
### 4.5.2.7 11A20_100 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.497722 GHz | 10.56 dBm | | |
| M2 | | 1 | 5.48965 GHz | -15.68 dBm | | |
| M3 | | 1 | 5.51047 GHz | -16.02 dBm | | |

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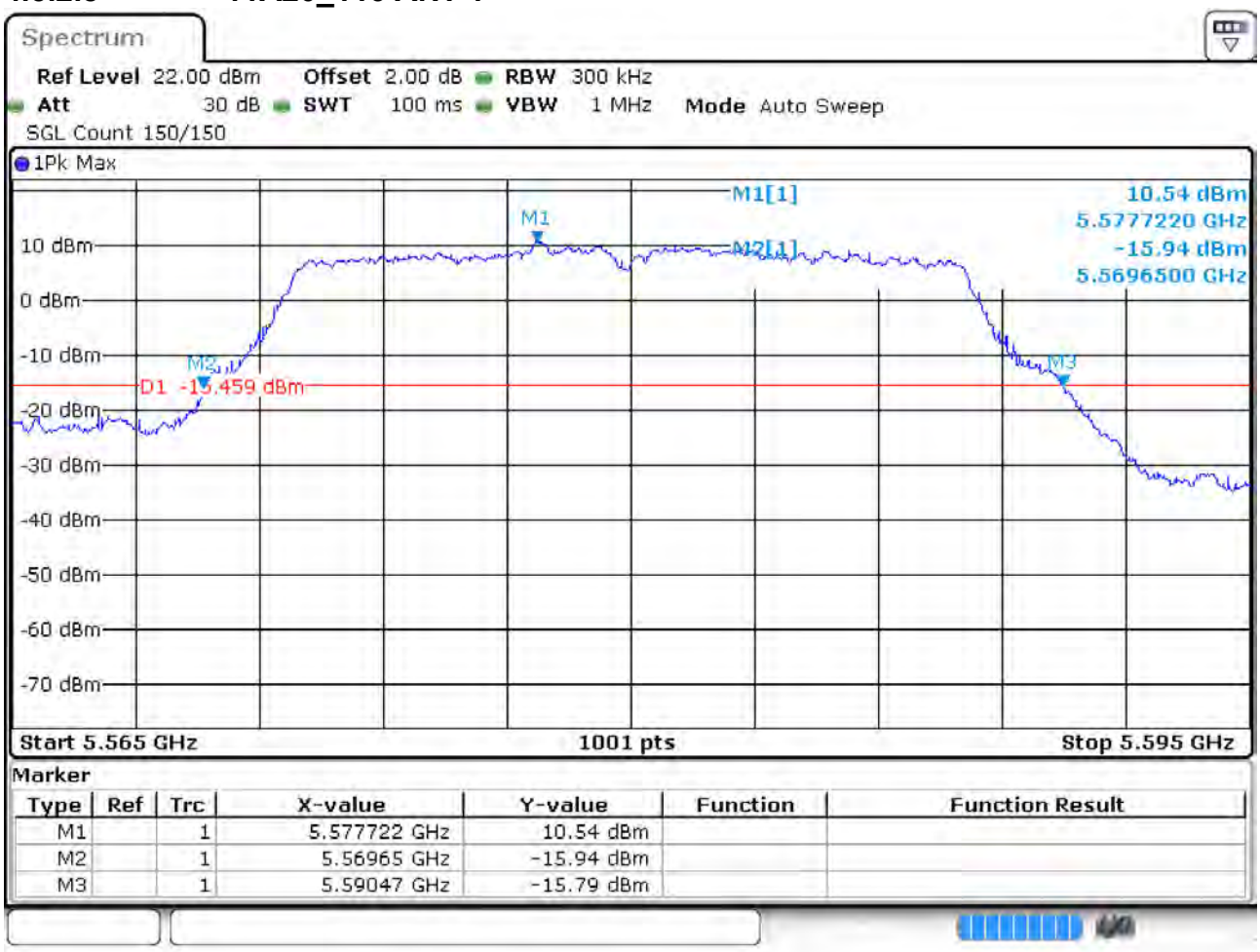
### 4.5.2.8 11A20_116 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.577722 GHz | 10.54 dBm | | |
| M2 | | 1 | 5.56965 GHz | -15.94 dBm | | |
| M3 | | 1 | 5.59047 GHz | -15.79 dBm | | |

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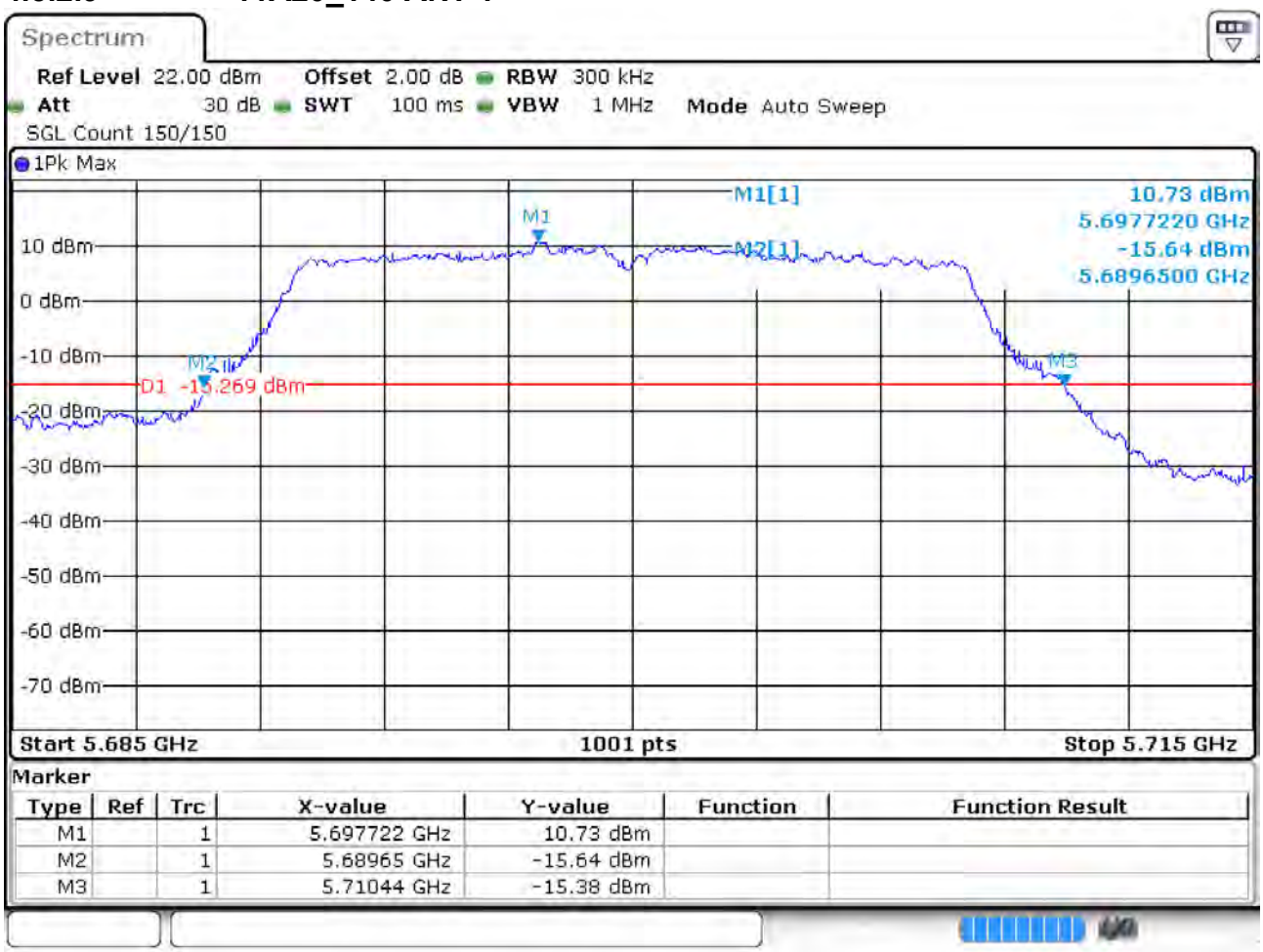
### 4.5.2.9 11A20_140 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.697722 GHz | 10.73 dBm | | |
| M2 | | 1 | 5.68965 GHz | -15.64 dBm | | |
| M3 | | 1 | 5.71044 GHz | -15.38 dBm | | |

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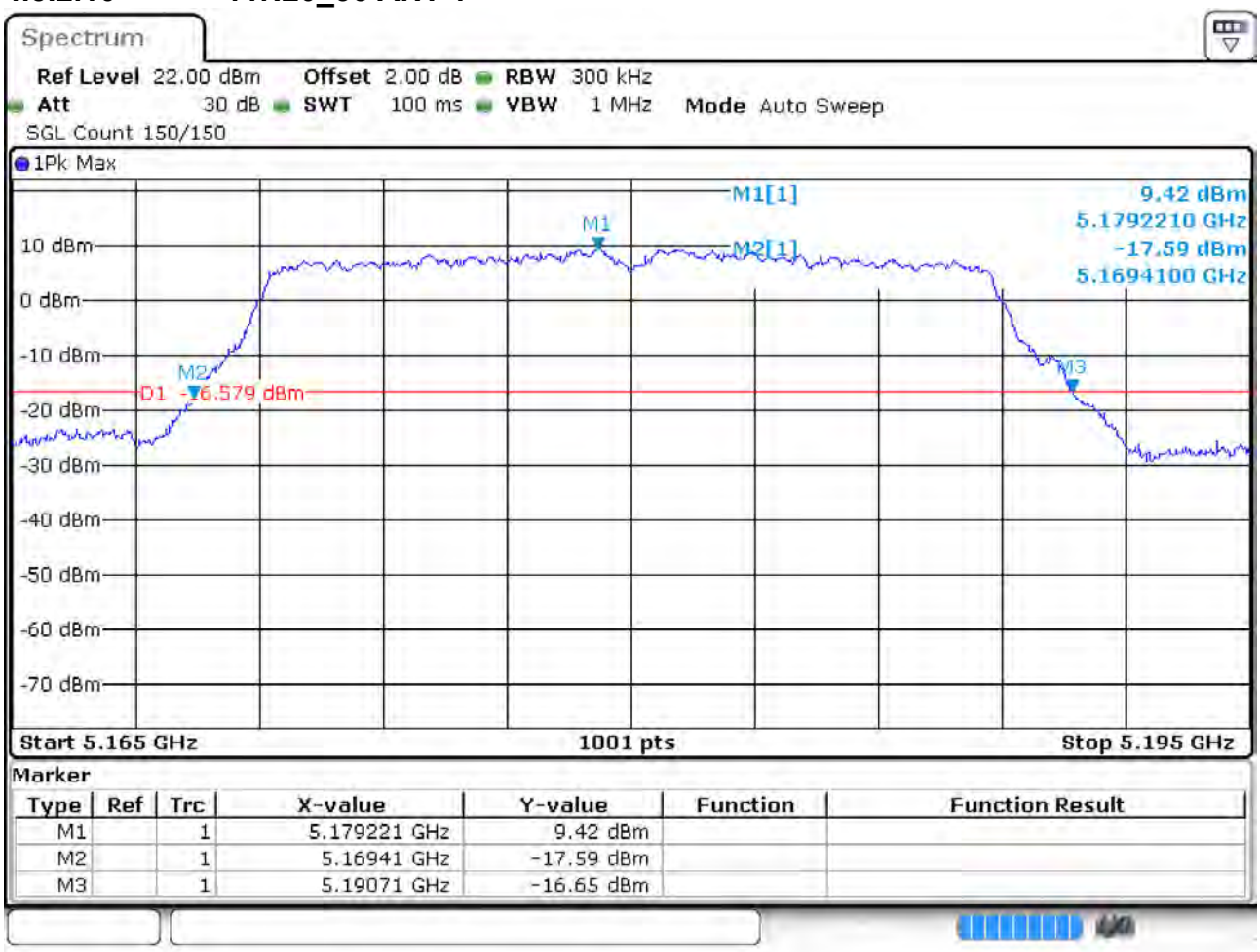
### 4.5.2.10 11N20_36 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.179221 GHz | 9.42 dBm | | |
| M2 | | 1 | 5.16941 GHz | -17.59 dBm | | |
| M3 | | 1 | 5.19071 GHz | -16.65 dBm | | |

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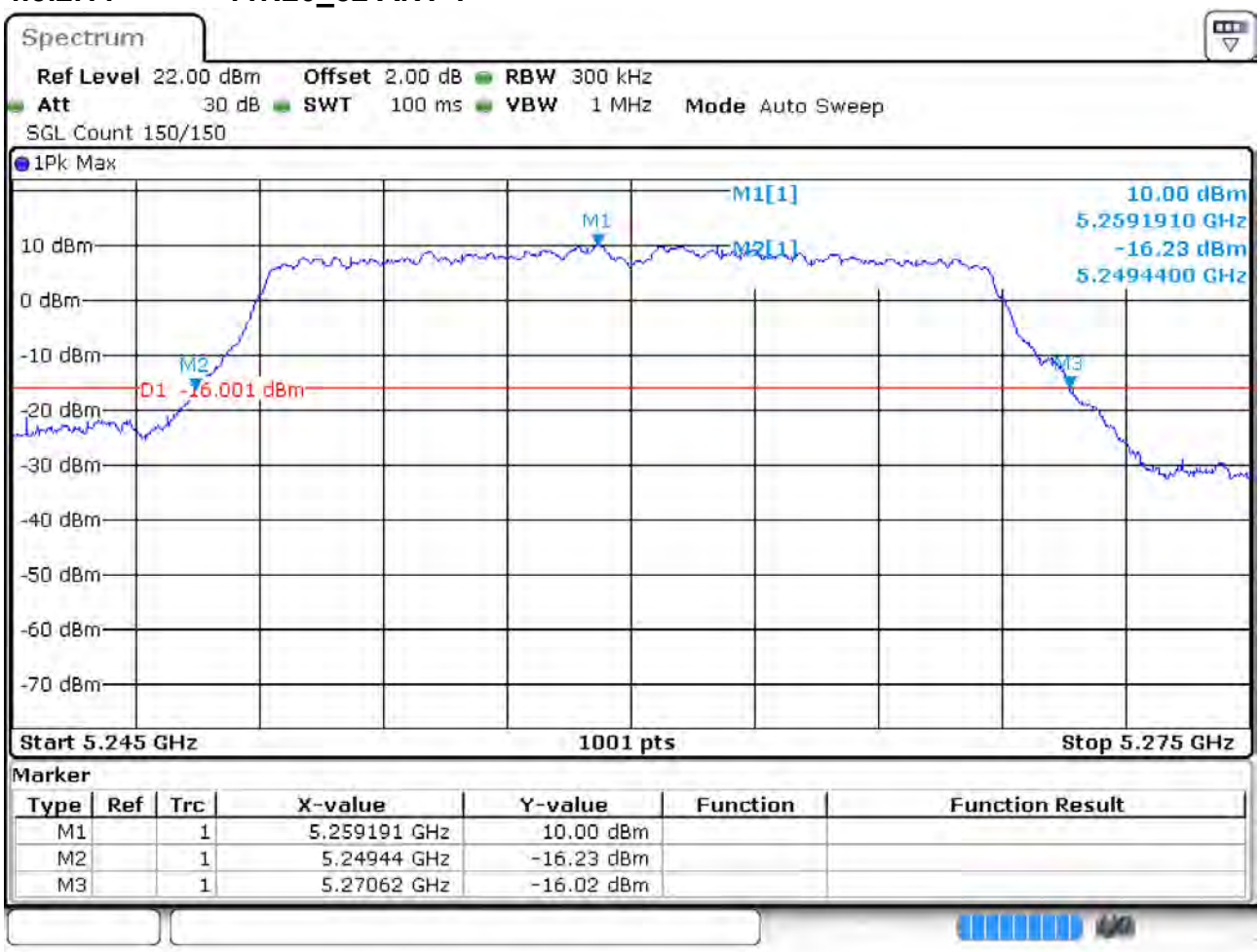
### 4.5.2.11 11N20_52 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.259191 GHz | 10.00 dBm | | |
| M2 | | 1 | 5.24944 GHz | -16.23 dBm | | |
| M3 | | 1 | 5.27062 GHz | -16.02 dBm | | |

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

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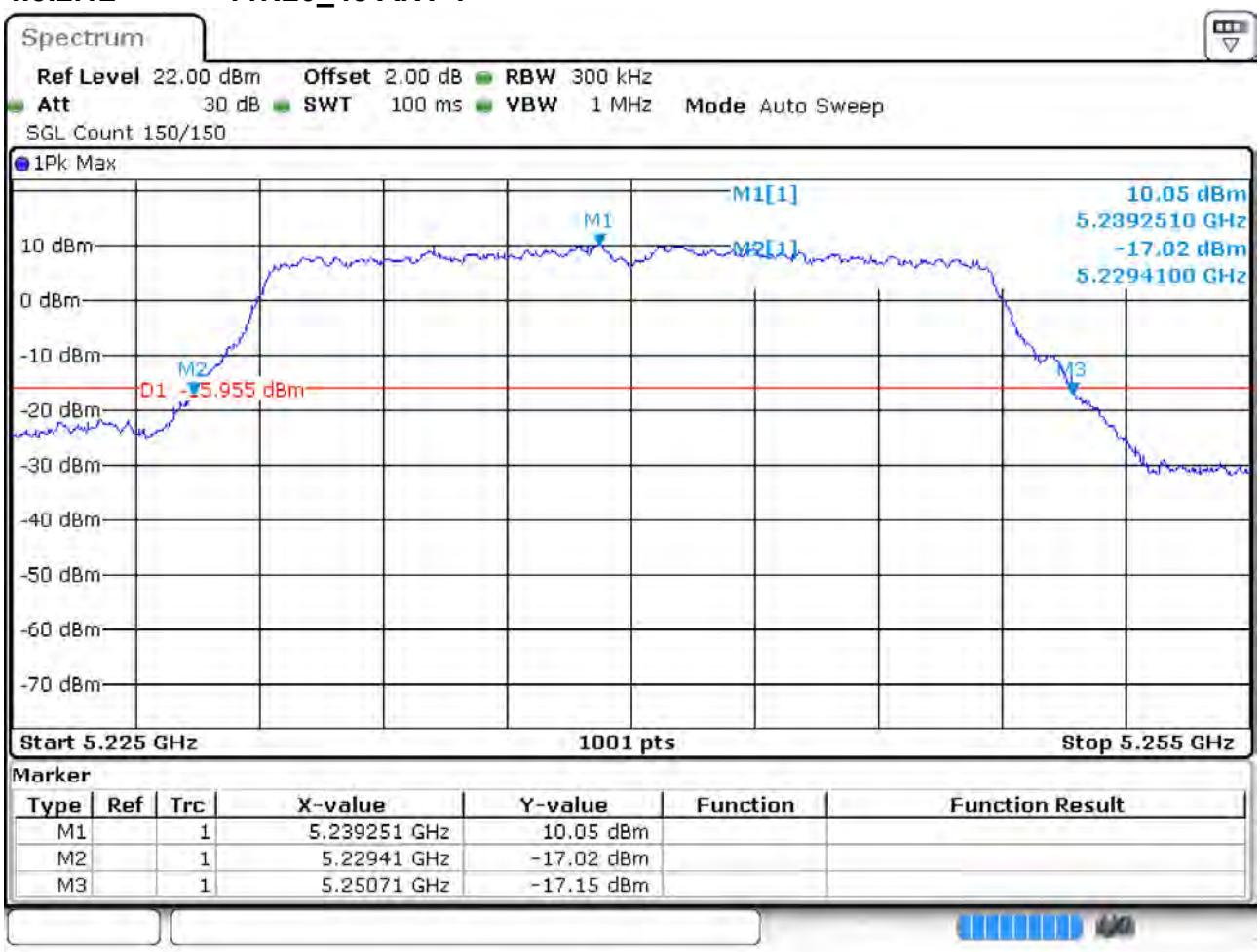
### 4.5.2.12 11N20_48 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.239251 GHz | 10.05 dBm | | |
| M2 | | 1 | 5.22941 GHz | -17.02 dBm | | |
| M3 | | 1 | 5.25071 GHz | -17.15 dBm | | |

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

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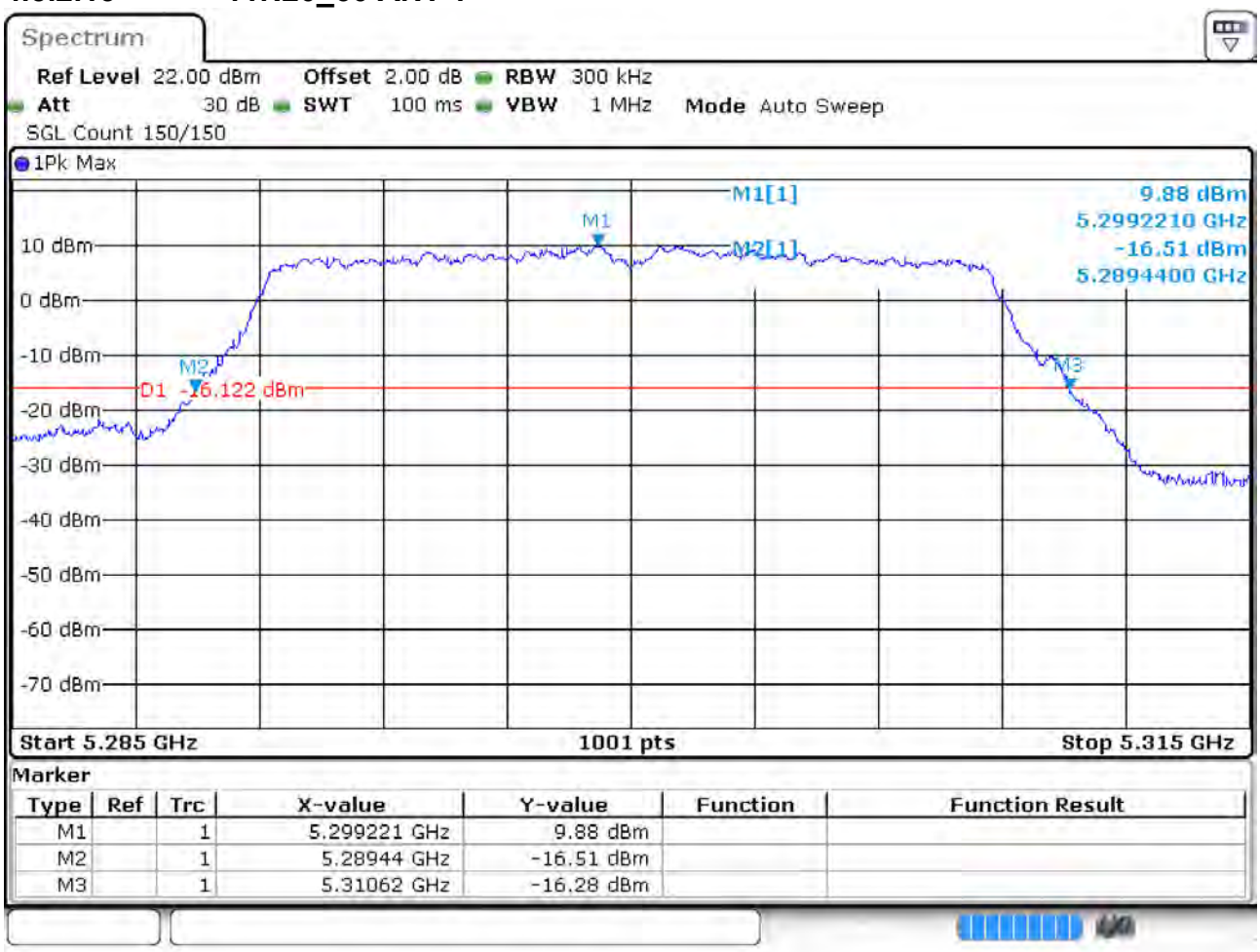
### 4.5.2.13 11N20_60 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.299221 GHz | 9.88 dBm | | |
| M2 | | 1 | 5.28944 GHz | -16.51 dBm | | |
| M3 | | 1 | 5.31062 GHz | -16.28 dBm | | |

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

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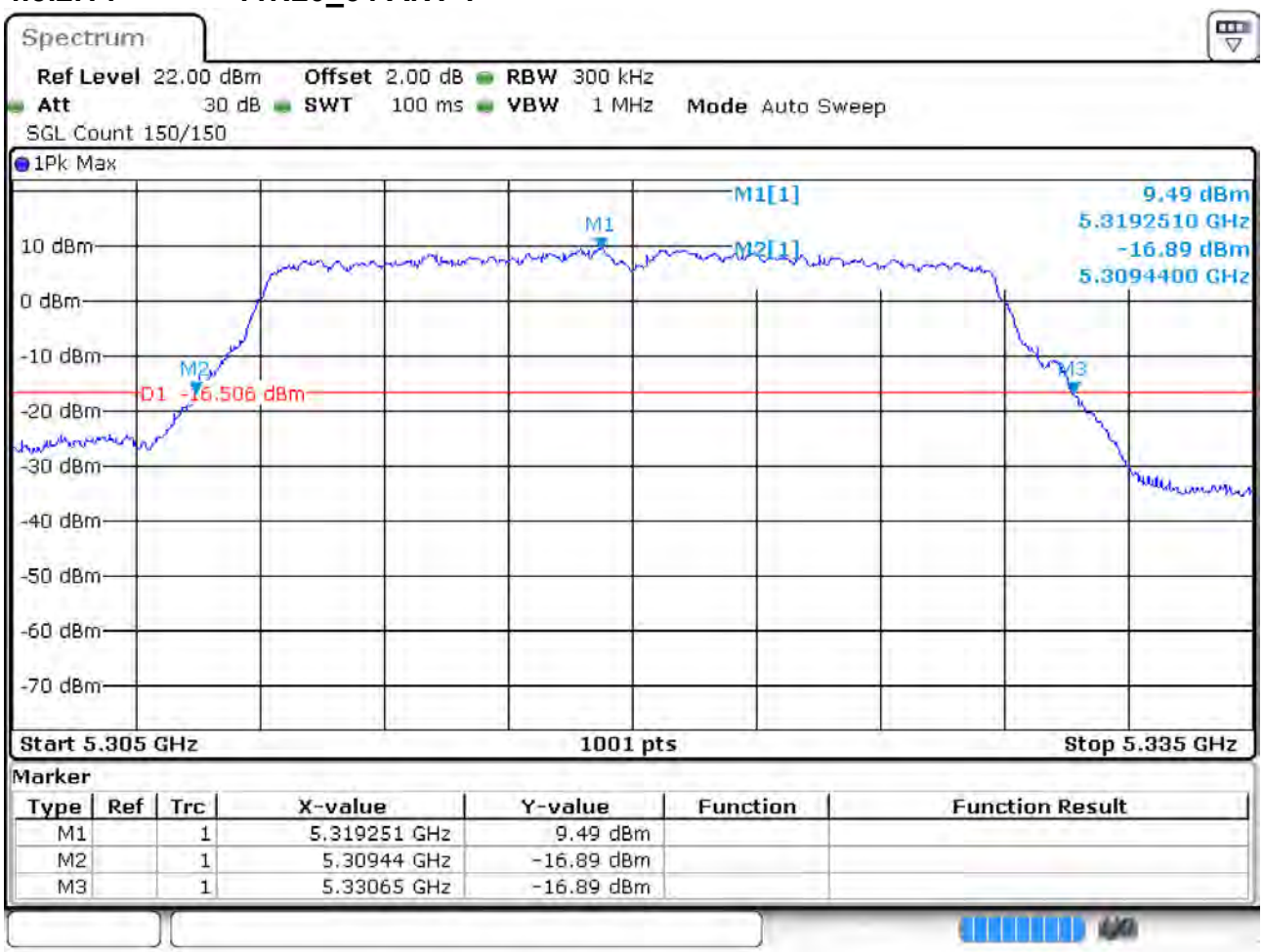
### 4.5.2.14 11N20_64 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.319251 GHz | 9.49 dBm | | |
| M2 | | 1 | 5.30944 GHz | -16.89 dBm | | |
| M3 | | 1 | 5.33065 GHz | -16.89 dBm | | |

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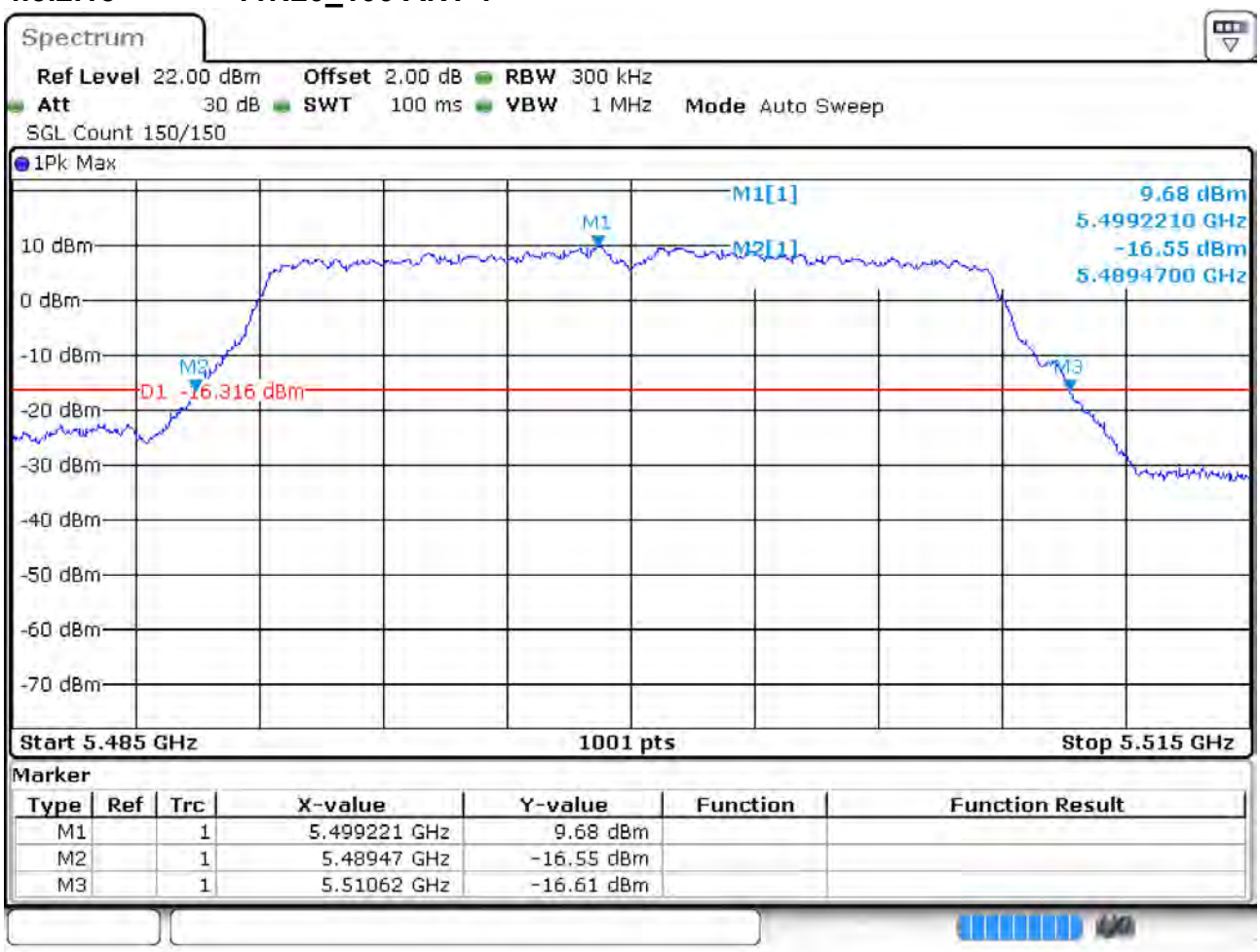
### 4.5.2.15 11N20_100 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.499221 GHz | 9.68 dBm | | |
| M2 | | 1 | 5.48947 GHz | -16.55 dBm | | |
| M3 | | 1 | 5.51062 GHz | -16.61 dBm | | |

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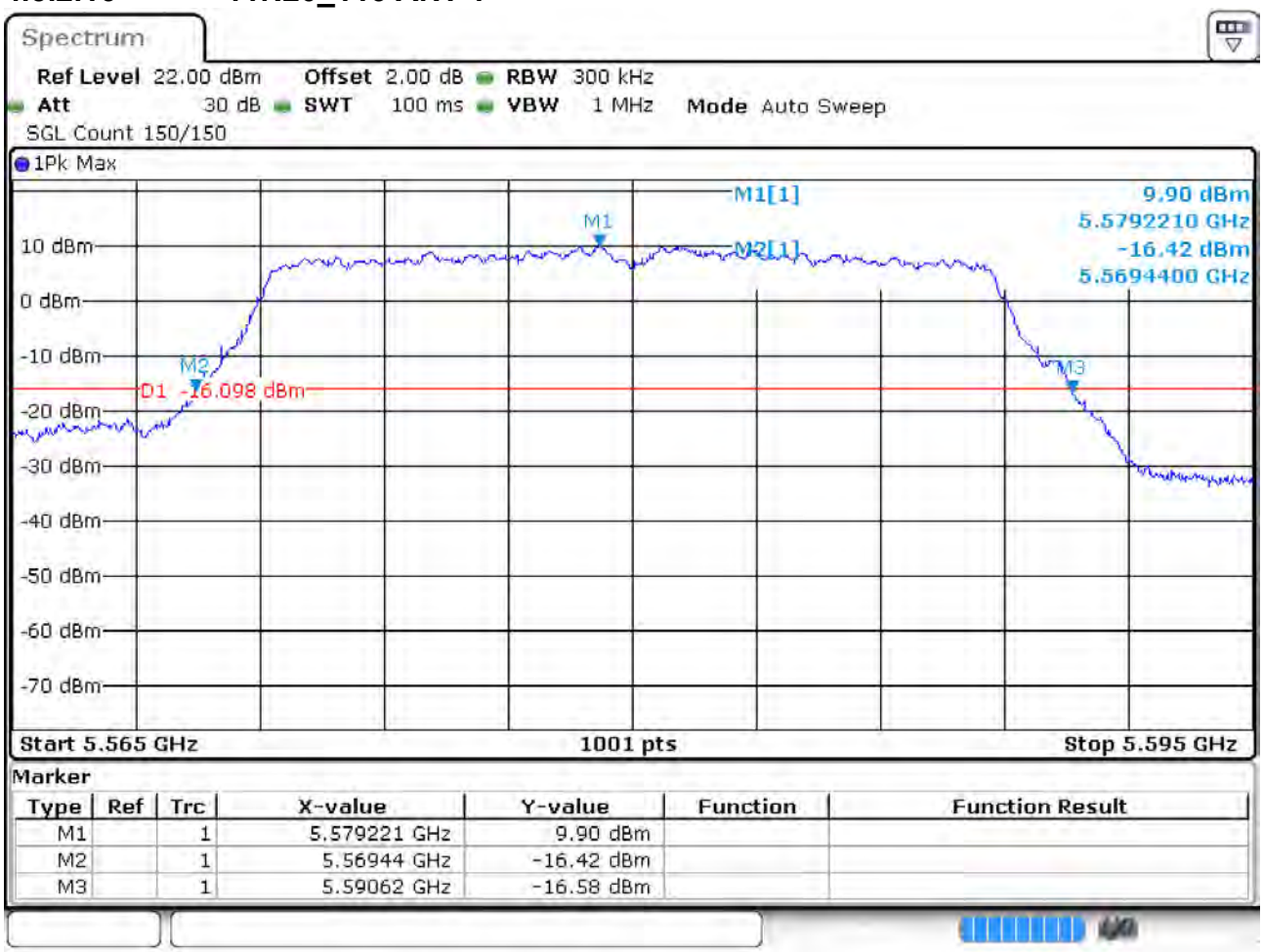
### 4.5.2.16 11N20_116 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.579221 GHz | 9.90 dBm | | |
| M2 | | 1 | 5.56944 GHz | -16.42 dBm | | |
| M3 | | 1 | 5.59062 GHz | -16.58 dBm | | |

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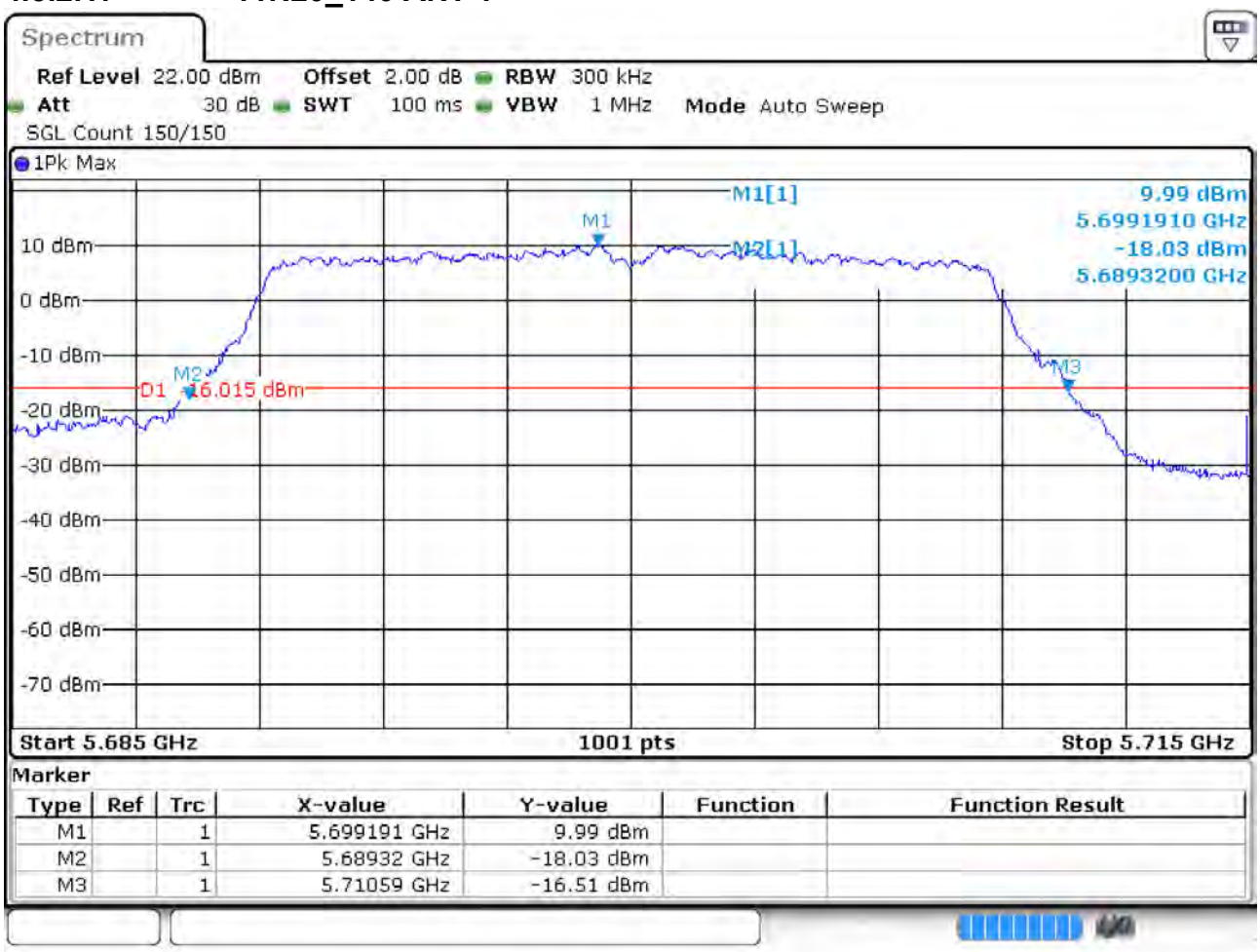
### 4.5.2.17 11N20_140 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.699191 GHz | 9.99 dBm | | |
| M2 | | 1 | 5.68932 GHz | -18.03 dBm | | |
| M3 | | 1 | 5.71059 GHz | -16.51 dBm | | |

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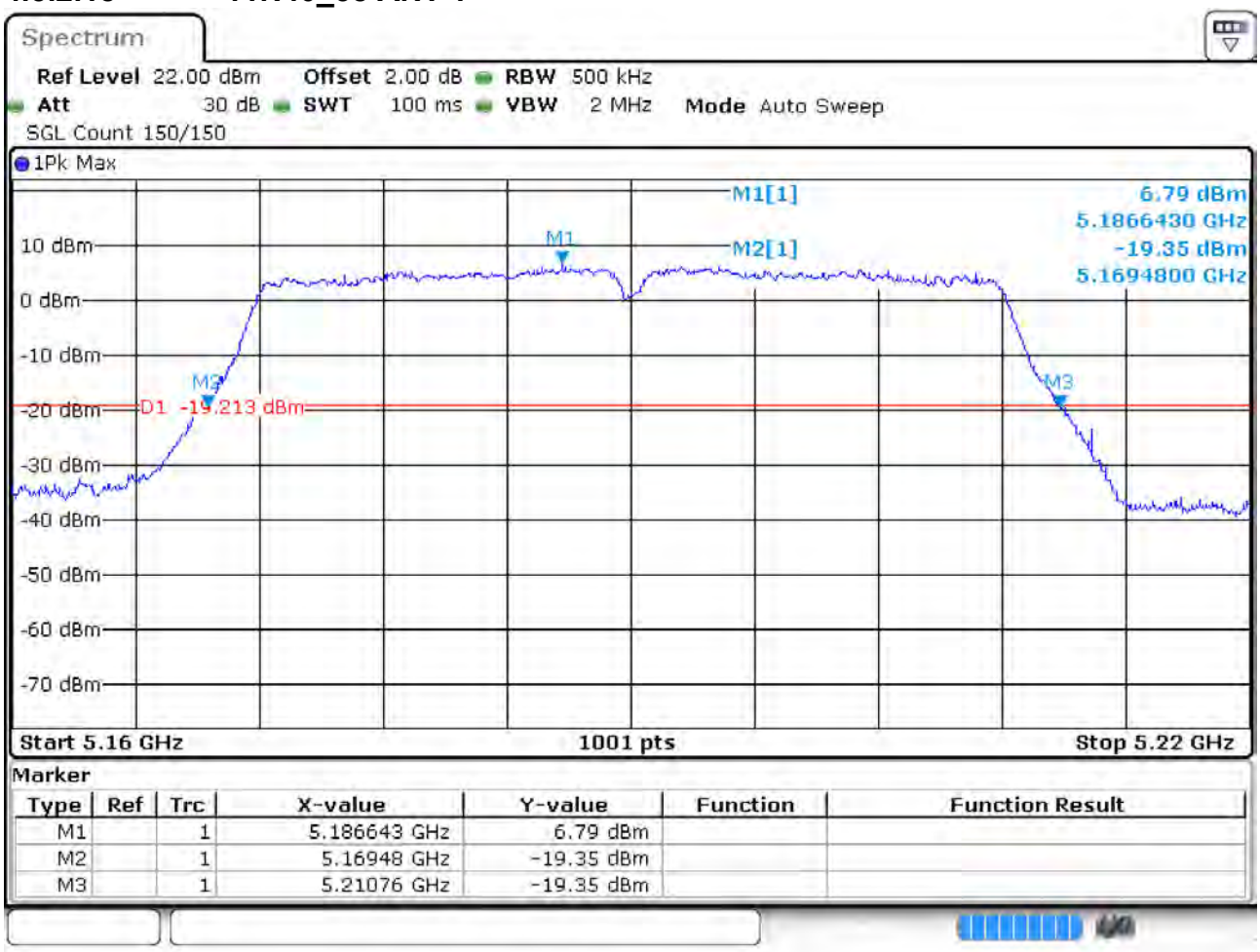
### 4.5.2.18 11N40_38 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.186643 GHz | 6.79 dBm | | |
| M2 | | 1 | 5.16948 GHz | -19.35 dBm | | |
| M3 | | 1 | 5.21076 GHz | -19.35 dBm | | |

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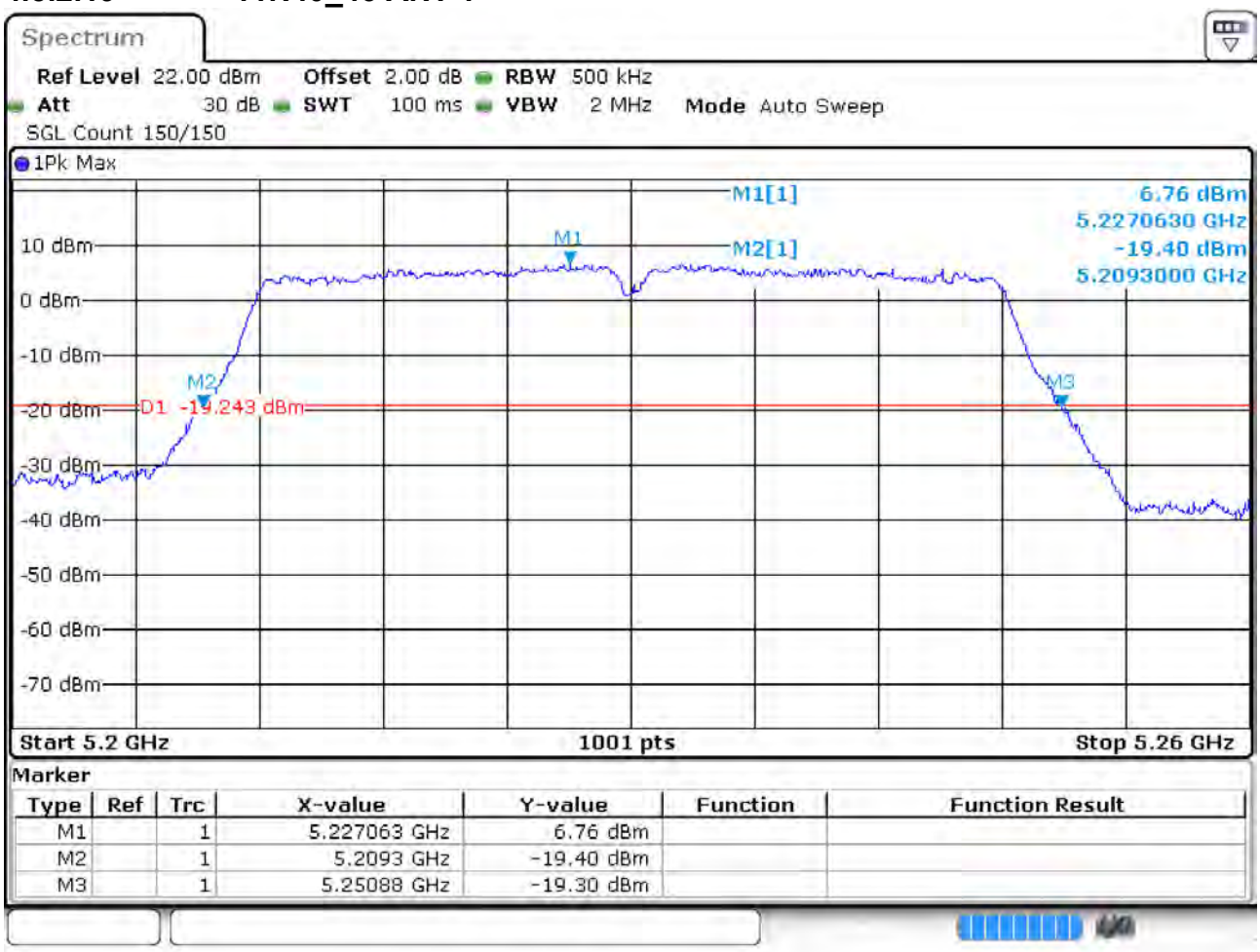
### 4.5.2.19 11N40_46 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.227063 GHz | 6.76 dBm | | |
| M2 | | 1 | 5.2093 GHz | -19.40 dBm | | |
| M3 | | 1 | 5.25088 GHz | -19.30 dBm | | |

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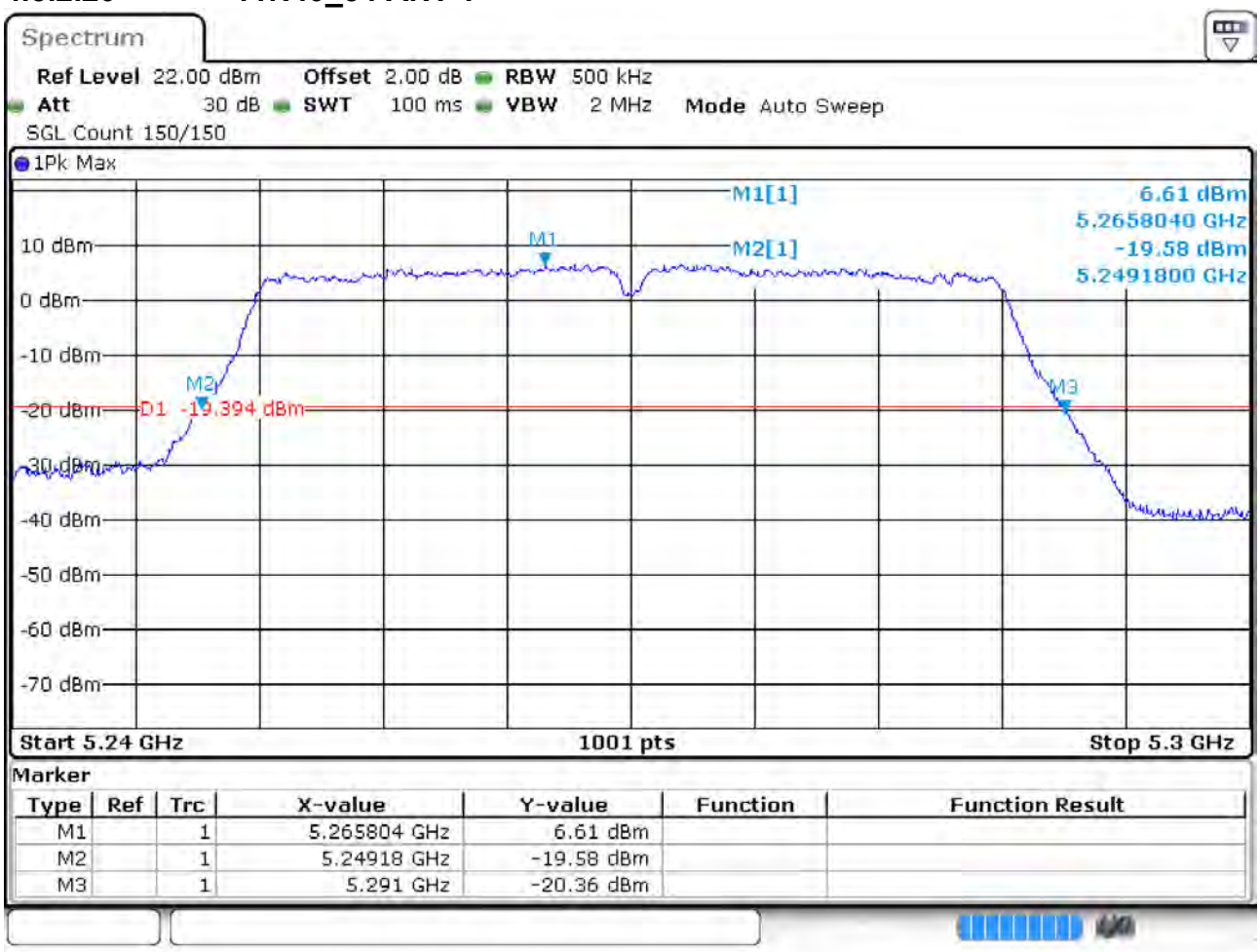
### 4.5.2.20 11N40_54 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.265804 GHz | 6.61 dBm | | |
| M2 | | 1 | 5.24918 GHz | -19.58 dBm | | |
| M3 | | 1 | 5.291 GHz | -20.36 dBm | | |

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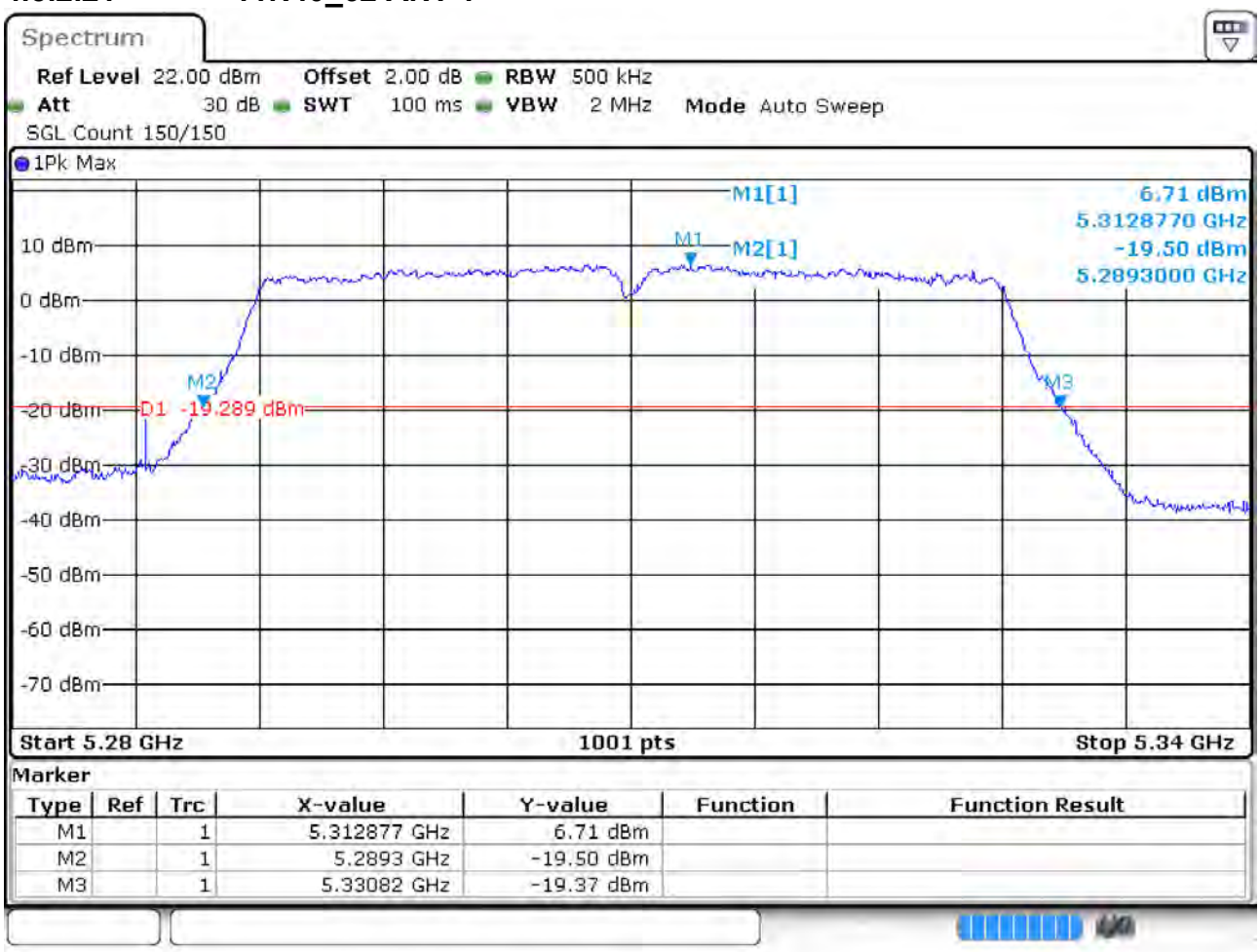
### 4.5.2.21 11N40_62 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.312877 GHz | 6.71 dBm | | |
| M2 | | 1 | 5.2893 GHz | -19.50 dBm | | |
| M3 | | 1 | 5.33082 GHz | -19.37 dBm | | |

Date: 11.SEP.2020 17:23:12

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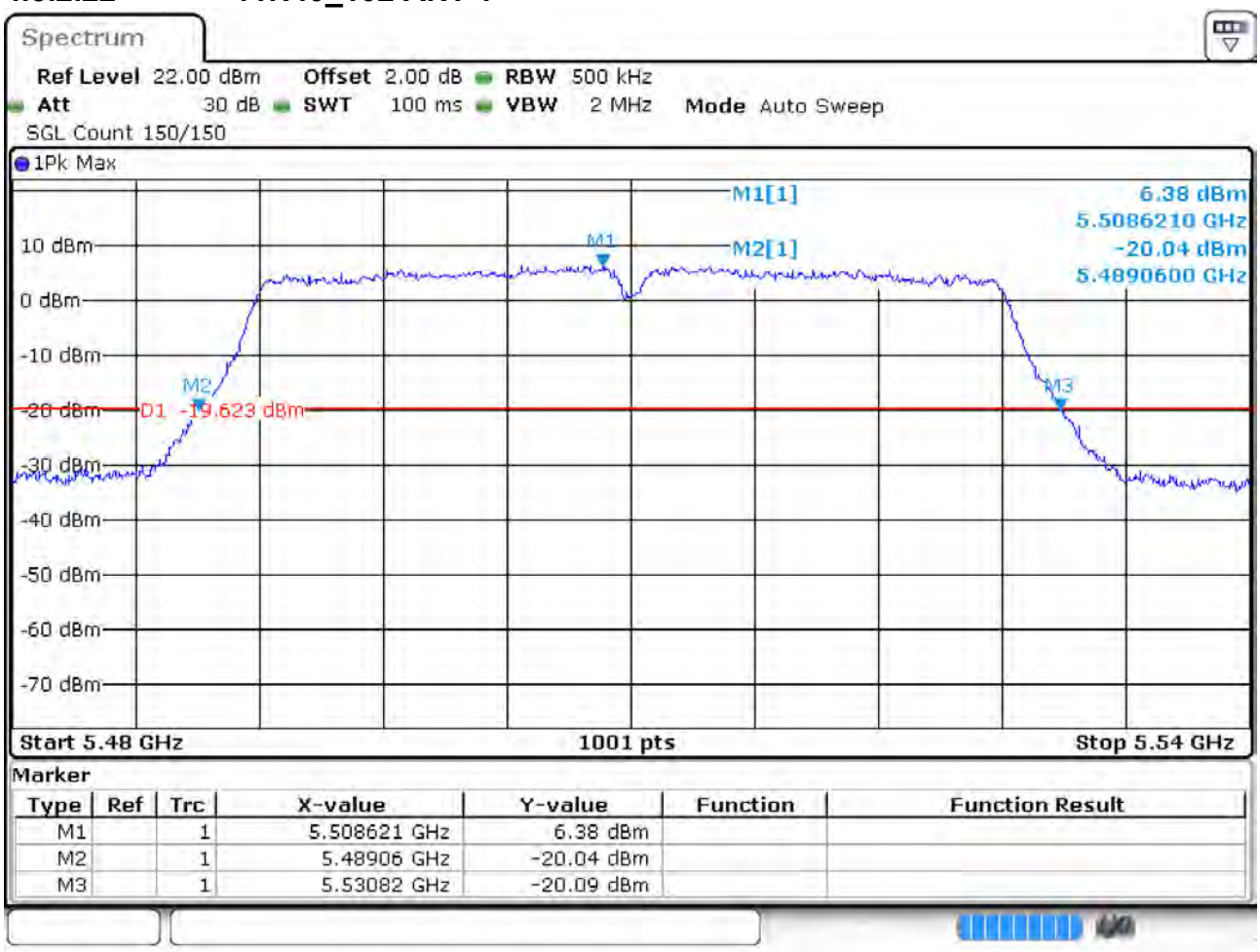
### 4.5.2.22 11N40_102 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.508621 GHz | 6.38 dBm | | |
| M2 | | 1 | 5.48906 GHz | -20.04 dBm | | |
| M3 | | 1 | 5.53082 GHz | -20.09 dBm | | |

Date: 11.SEP.2020 17:25:35

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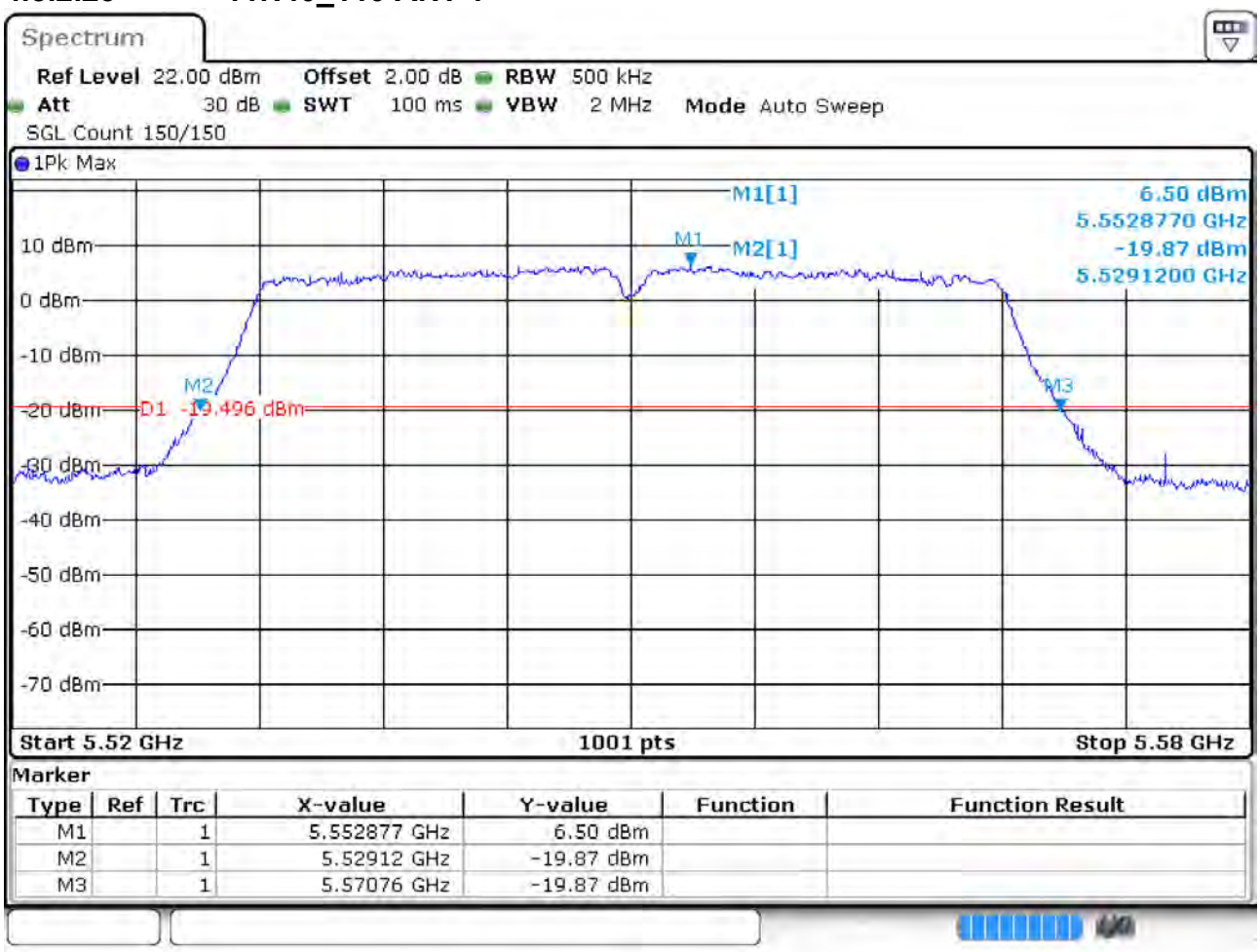
### 4.5.2.23 11N40_110 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.552877 GHz | 6.50 dBm | | |
| M2 | | 1 | 5.52912 GHz | -19.87 dBm | | |
| M3 | | 1 | 5.57076 GHz | -19.87 dBm | | |

Date: 11.SEP.2020 17:27:09

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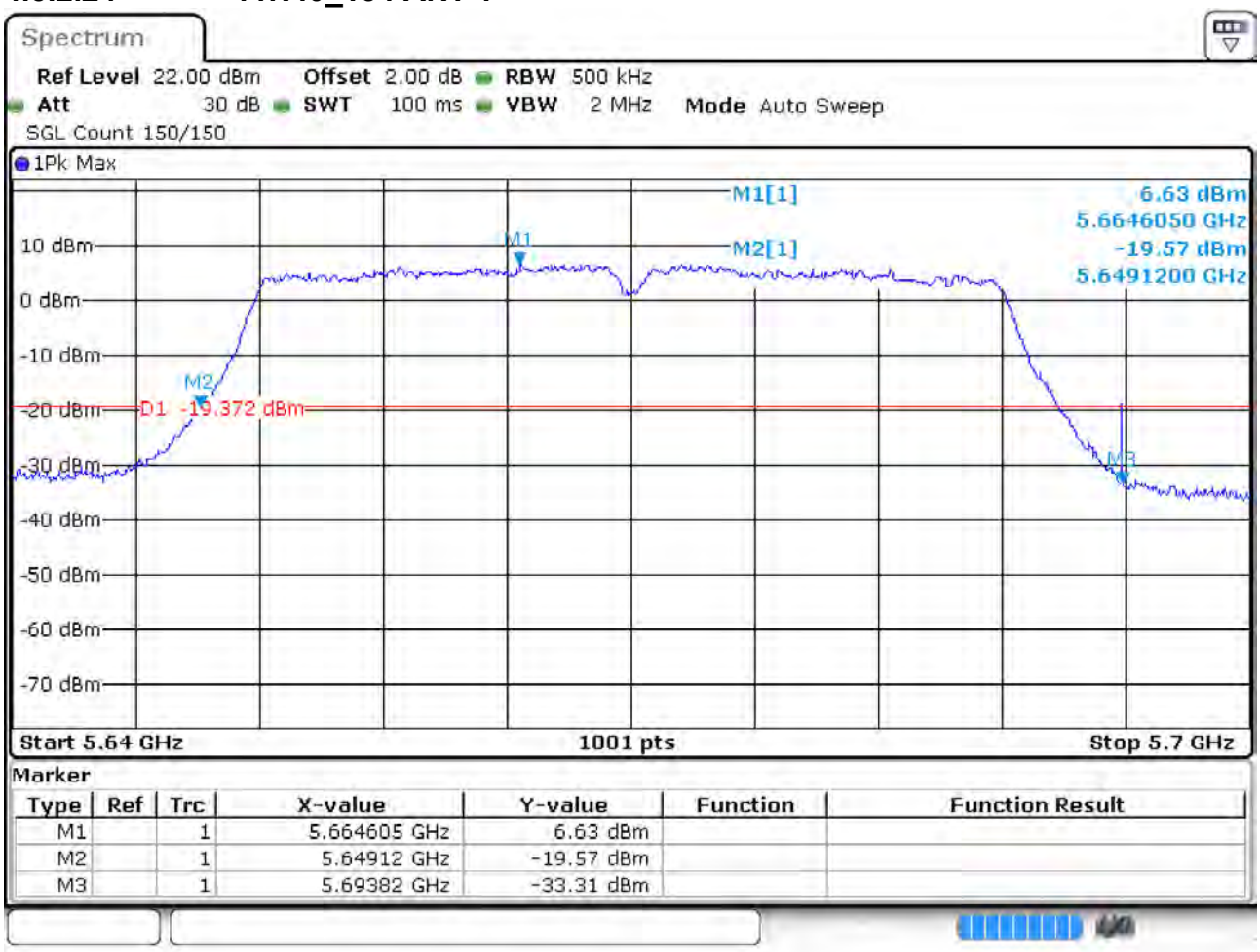
### 4.5.2.24 11N40_134 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.664605 GHz | 6.63 dBm | | |
| M2 | | 1 | 5.64912 GHz | -19.57 dBm | | |
| M3 | | 1 | 5.69382 GHz | -33.31 dBm | | |

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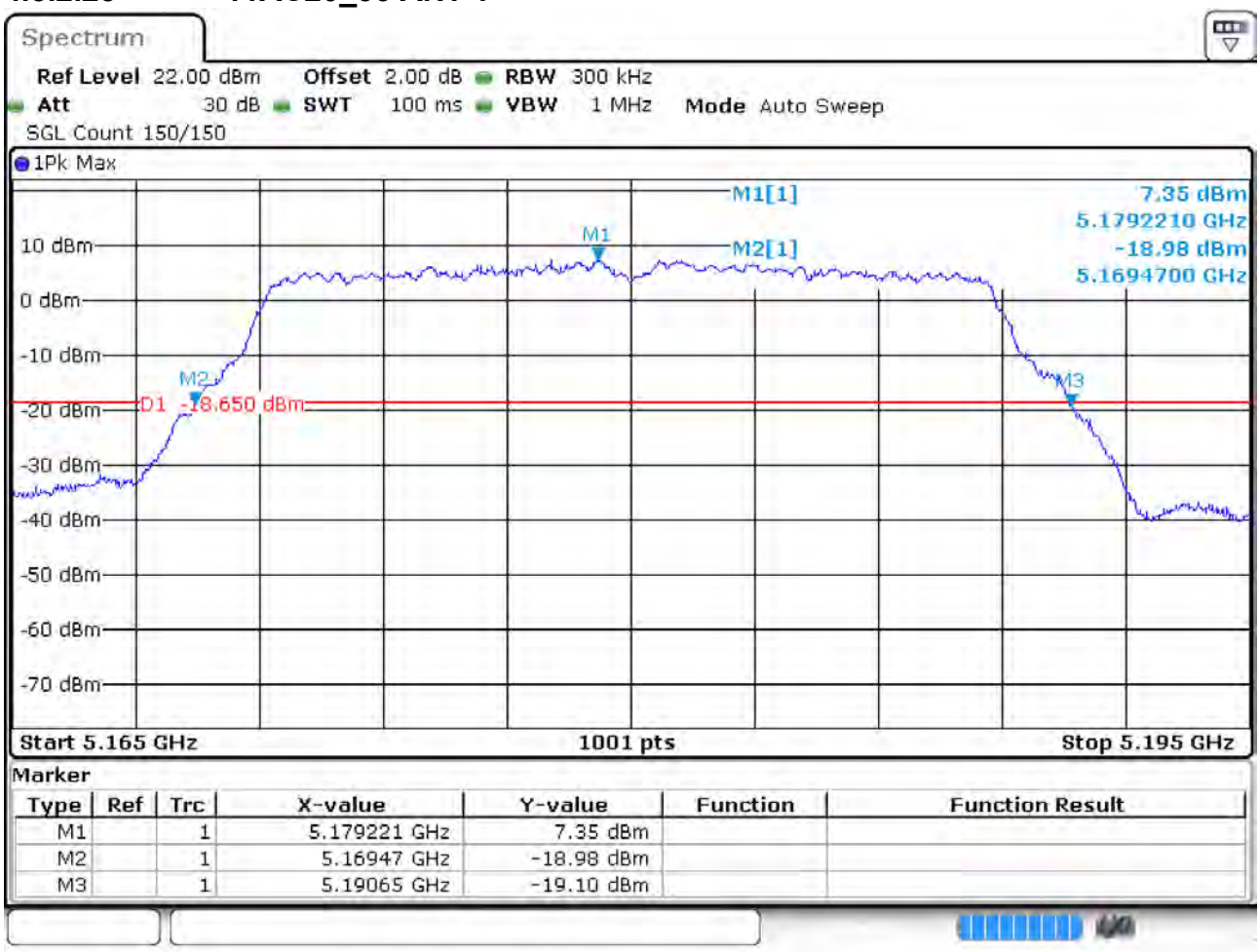
### 4.5.2.25 11AC20_36 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.179221 GHz | 7.35 dBm | | |
| M2 | | 1 | 5.16947 GHz | -18.98 dBm | | |
| M3 | | 1 | 5.19065 GHz | -19.10 dBm | | |

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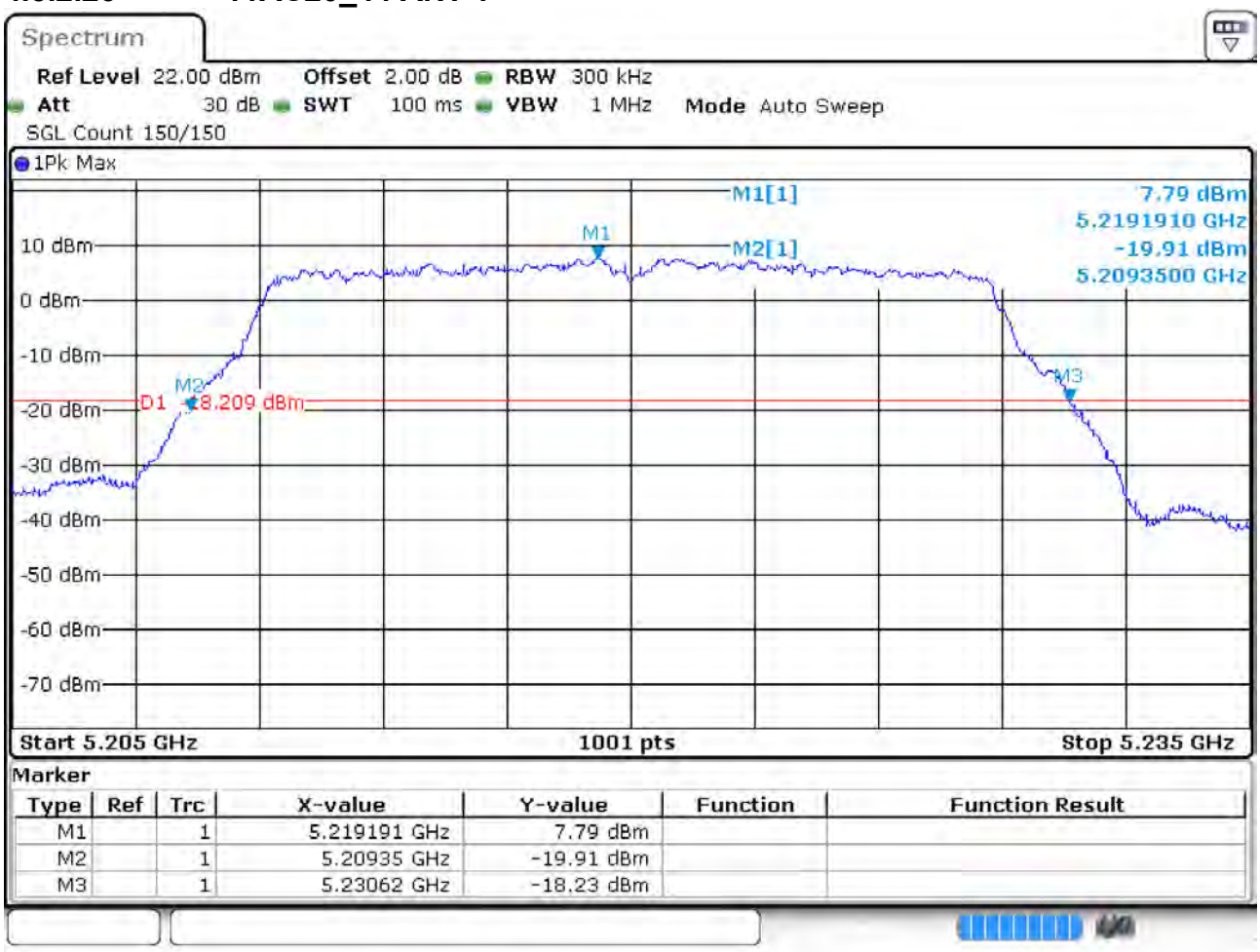
### 4.5.2.26 11AC20_44 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.219191 GHz | 7.79 dBm | | |
| M2 | | 1 | 5.20935 GHz | -19.91 dBm | | |
| M3 | | 1 | 5.23062 GHz | -18.23 dBm | | |

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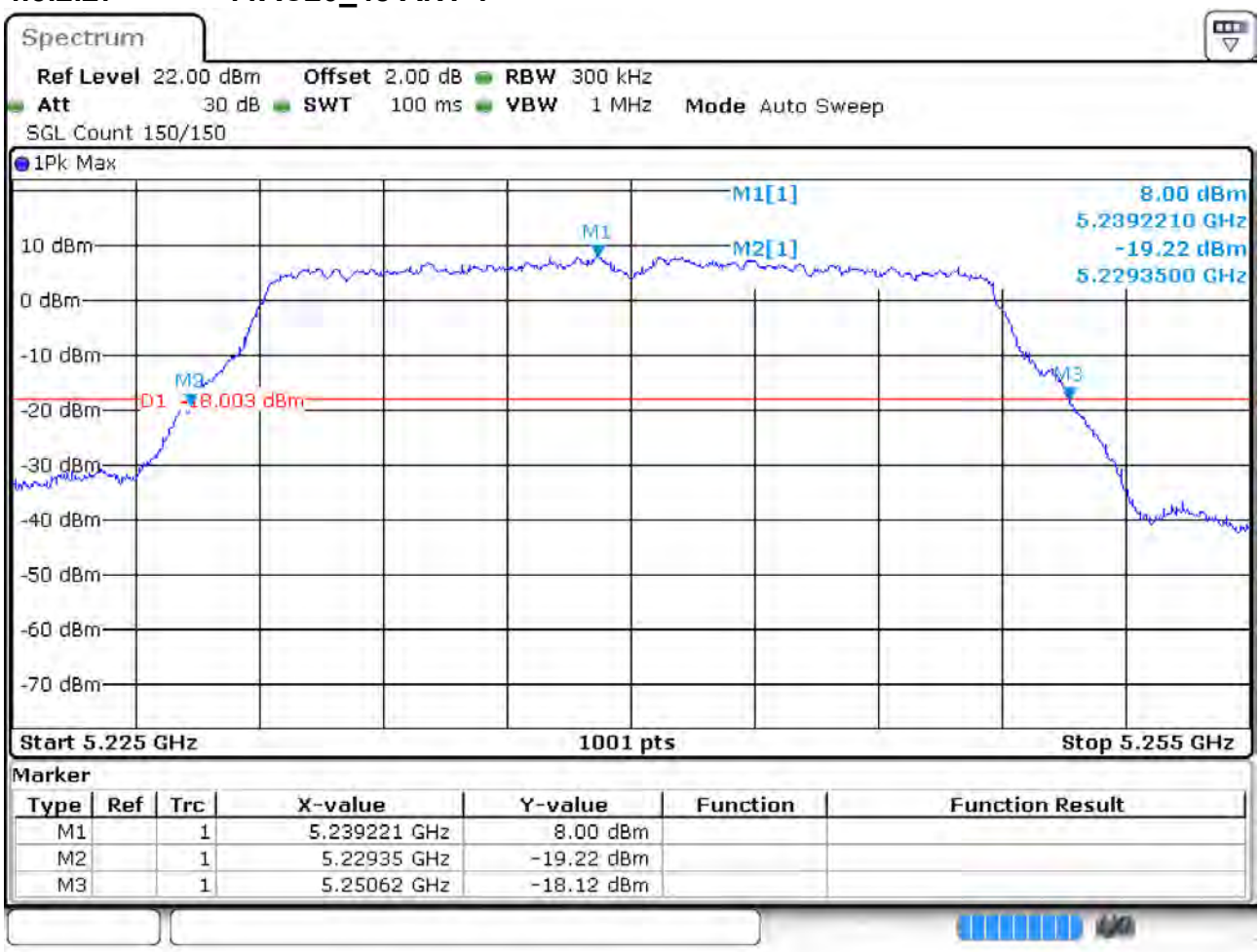
### 4.5.2.27 11AC20_48 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.239221 GHz | 8.00 dBm | | |
| M2 | | 1 | 5.22935 GHz | -19.22 dBm | | |
| M3 | | 1 | 5.25062 GHz | -18.12 dBm | | |

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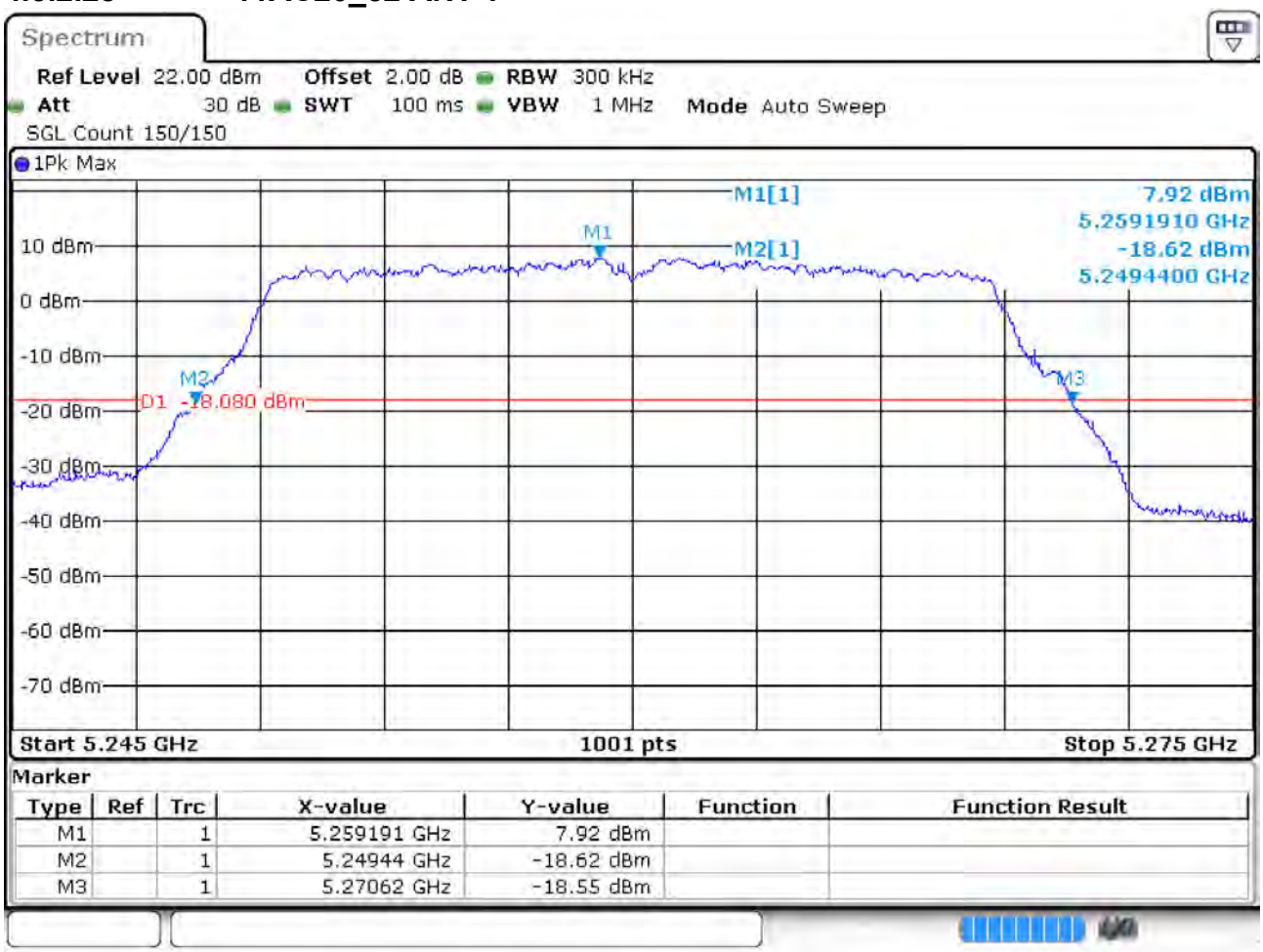
### 4.5.2.28 11AC20_52 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.259191 GHz | 7.92 dBm | | |
| M2 | | 1 | 5.24944 GHz | -18.62 dBm | | |
| M3 | | 1 | 5.27062 GHz | -18.55 dBm | | |

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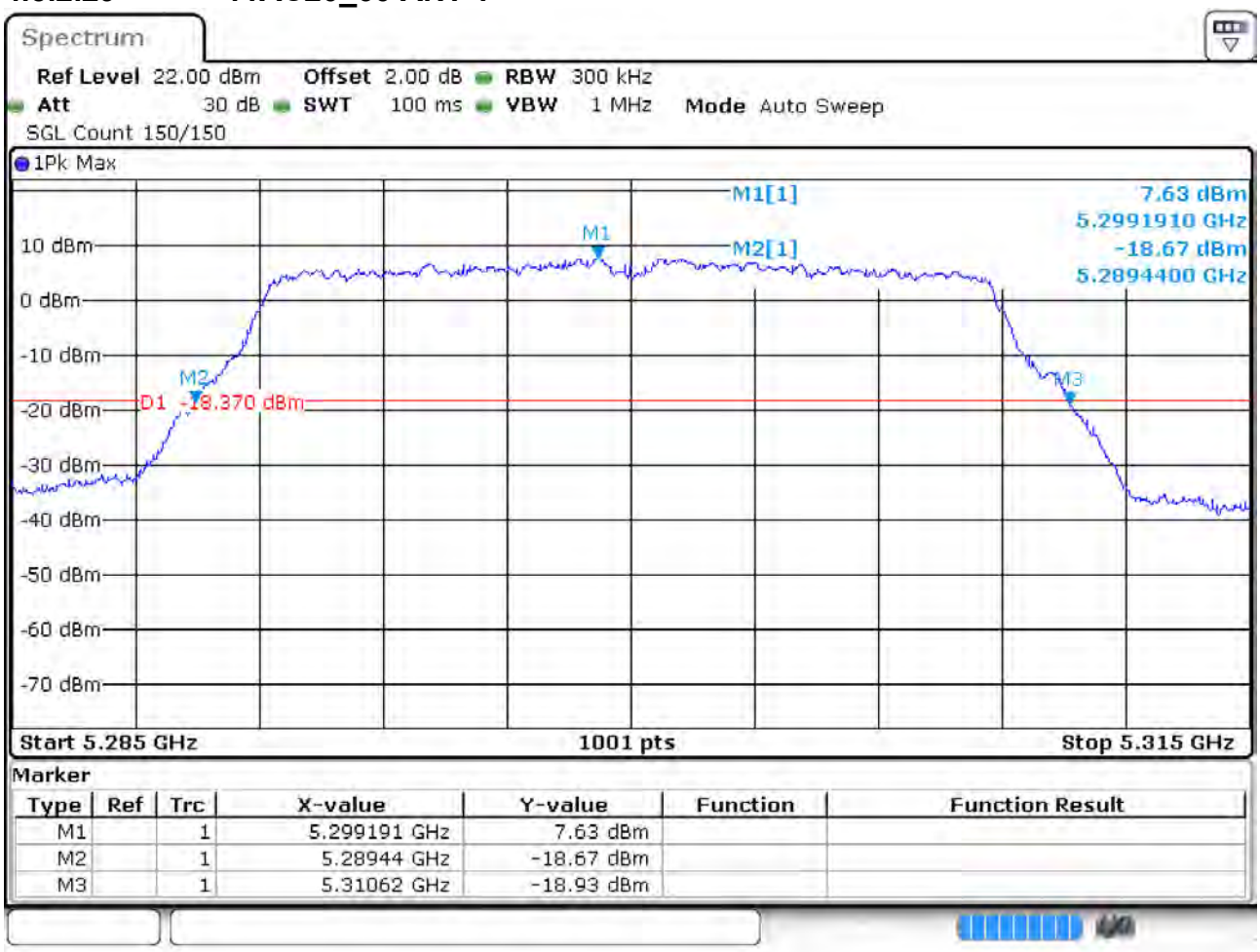
### 4.5.2.29 11AC20_60 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.299191 GHz | 7.63 dBm | | |
| M2 | | 1 | 5.28944 GHz | -18.67 dBm | | |
| M3 | | 1 | 5.31062 GHz | -18.93 dBm | | |

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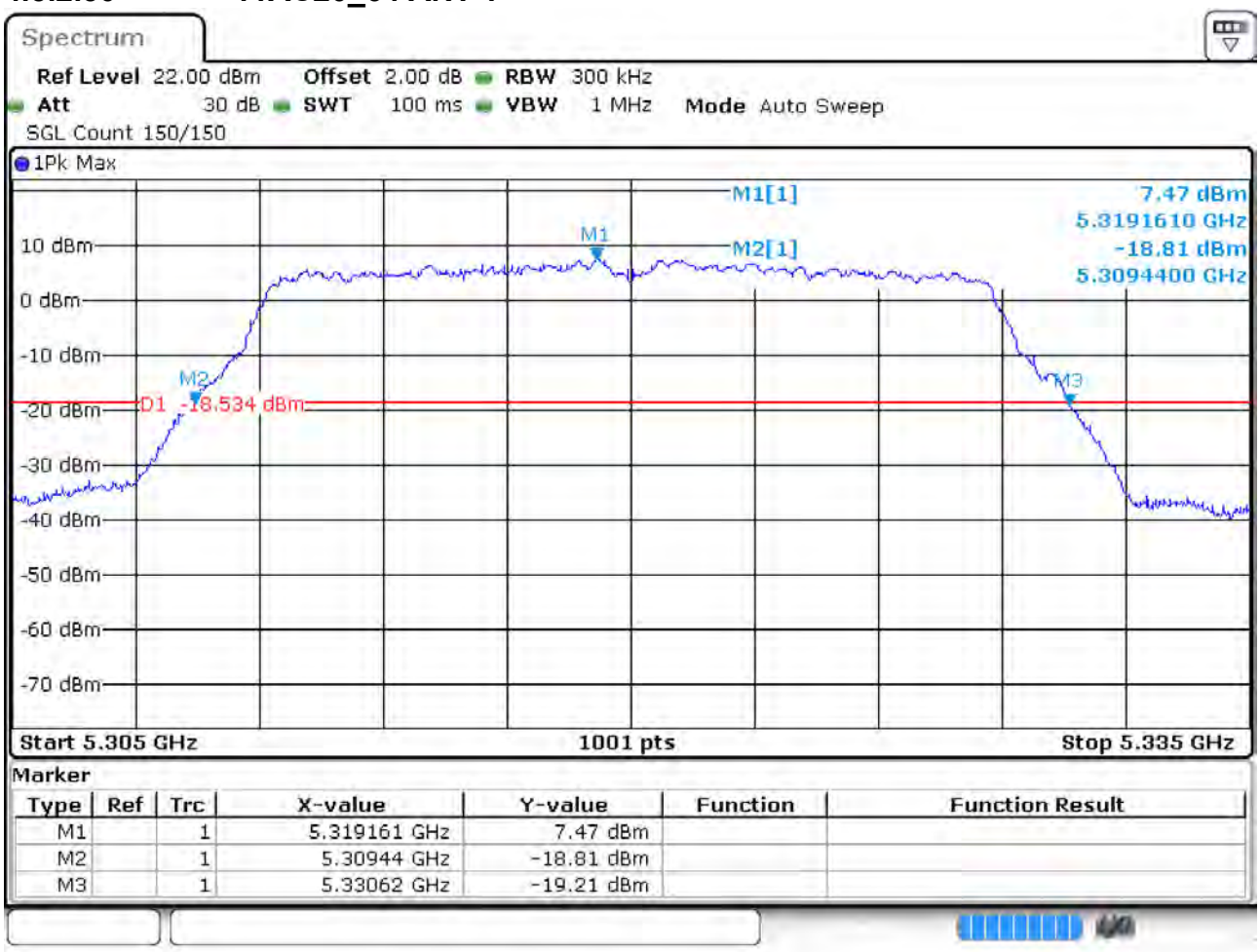
### 4.5.2.30 11AC20_64 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.319161 GHz | 7.47 dBm | | |
| M2 | | 1 | 5.30944 GHz | -18.81 dBm | | |
| M3 | | 1 | 5.33062 GHz | -19.21 dBm | | |

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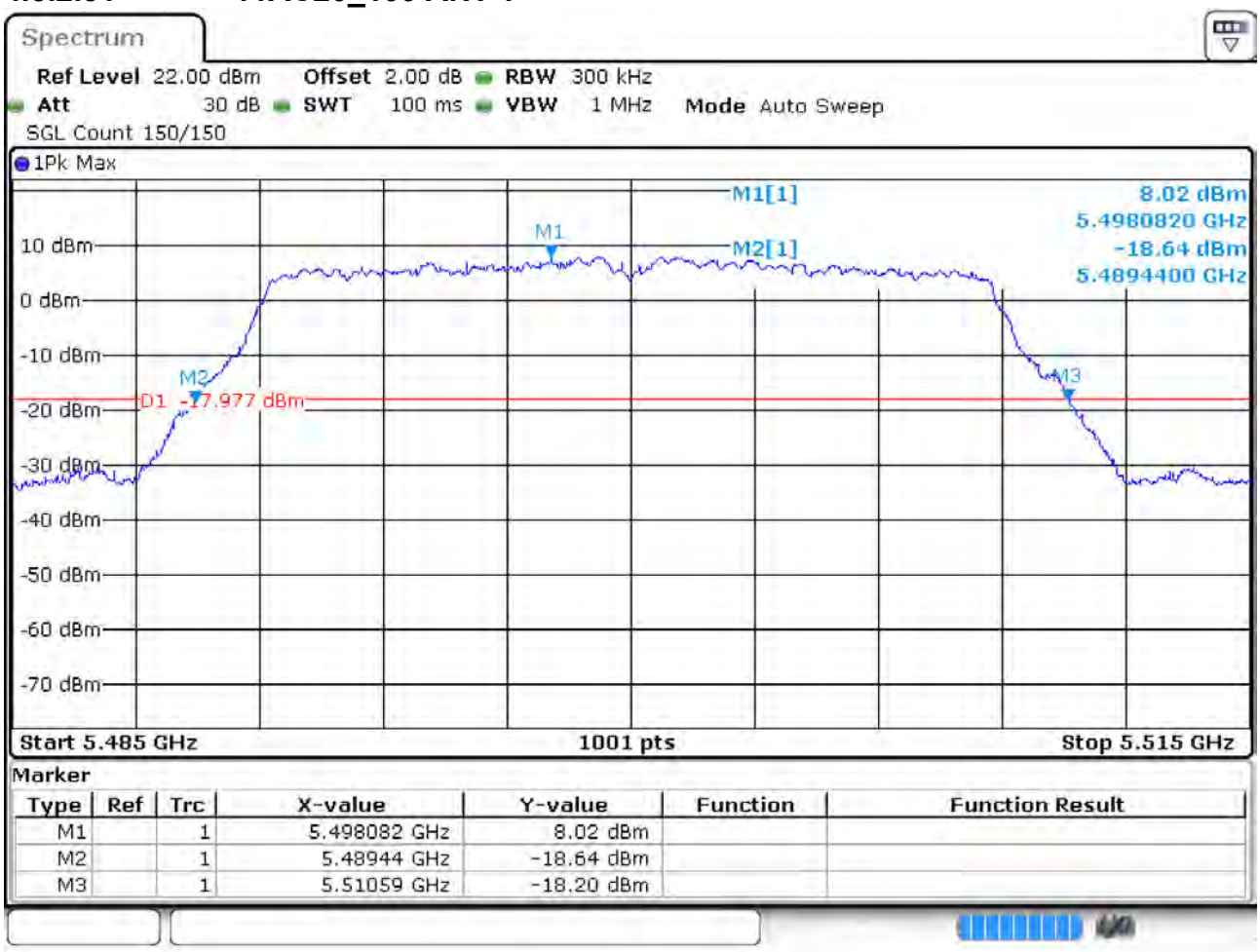
### 4.5.2.31 11AC20_100 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.498082 GHz | 8.02 dBm | | |
| M2 | | 1 | 5.48944 GHz | -18.64 dBm | | |
| M3 | | 1 | 5.51059 GHz | -18.20 dBm | | |

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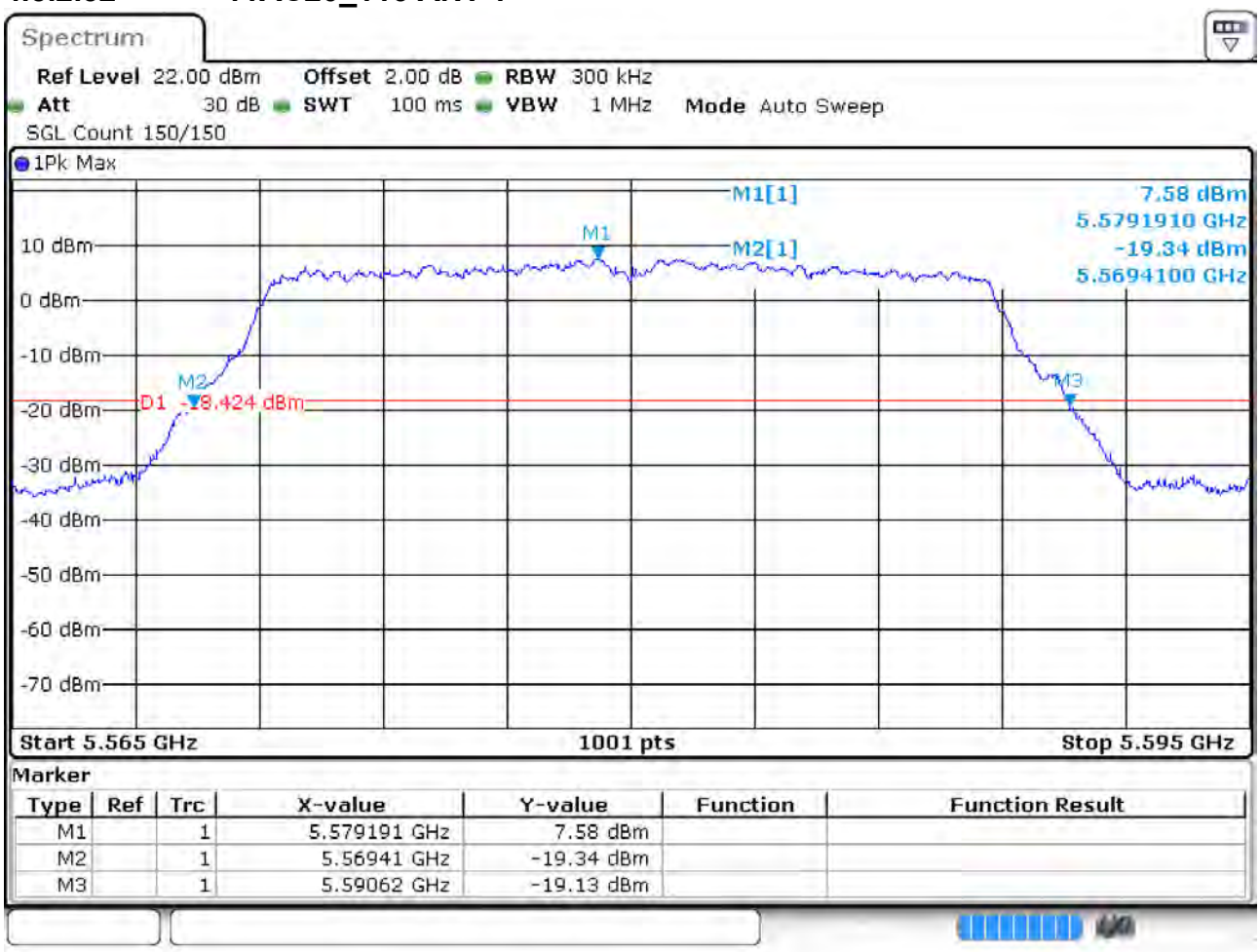
### 4.5.2.32 11AC20_116 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.579191 GHz | 7.58 dBm | | |
| M2 | | 1 | 5.56941 GHz | -19.34 dBm | | |
| M3 | | 1 | 5.59062 GHz | -19.13 dBm | | |

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### 4.5.2.33 11AC20_140 ANT 1

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.699191 GHz | 7.72 dBm | | |
| M2 | | 1 | 5.68935 GHz | -18.53 dBm | | |
| M3 | | 1 | 5.71059 GHz | -18.67 dBm | | |

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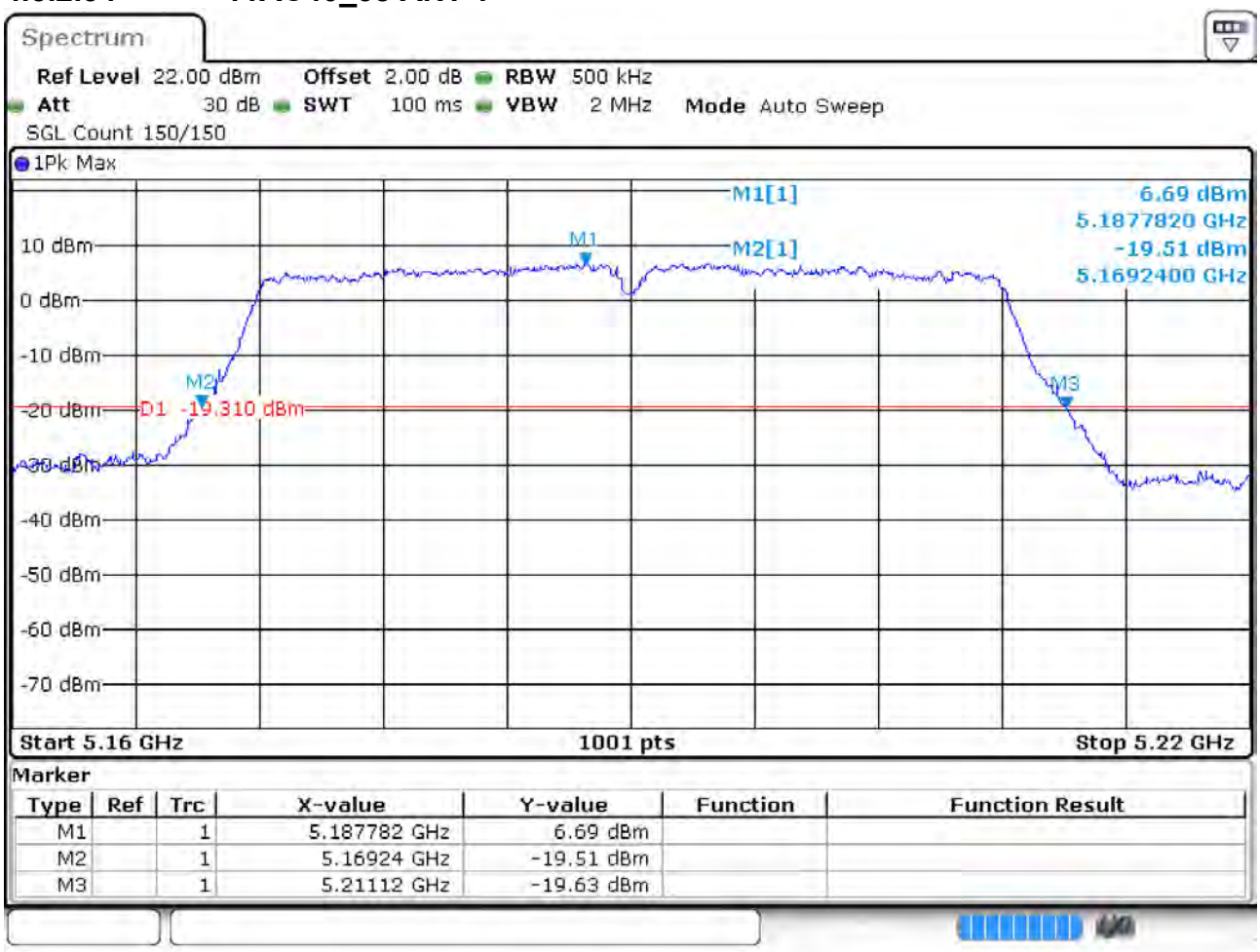
### 4.5.2.34 11AC40_38 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.187782 GHz | 6.69 dBm | | |
| M2 | | 1 | 5.16924 GHz | -19.51 dBm | | |
| M3 | | 1 | 5.21112 GHz | -19.63 dBm | | |

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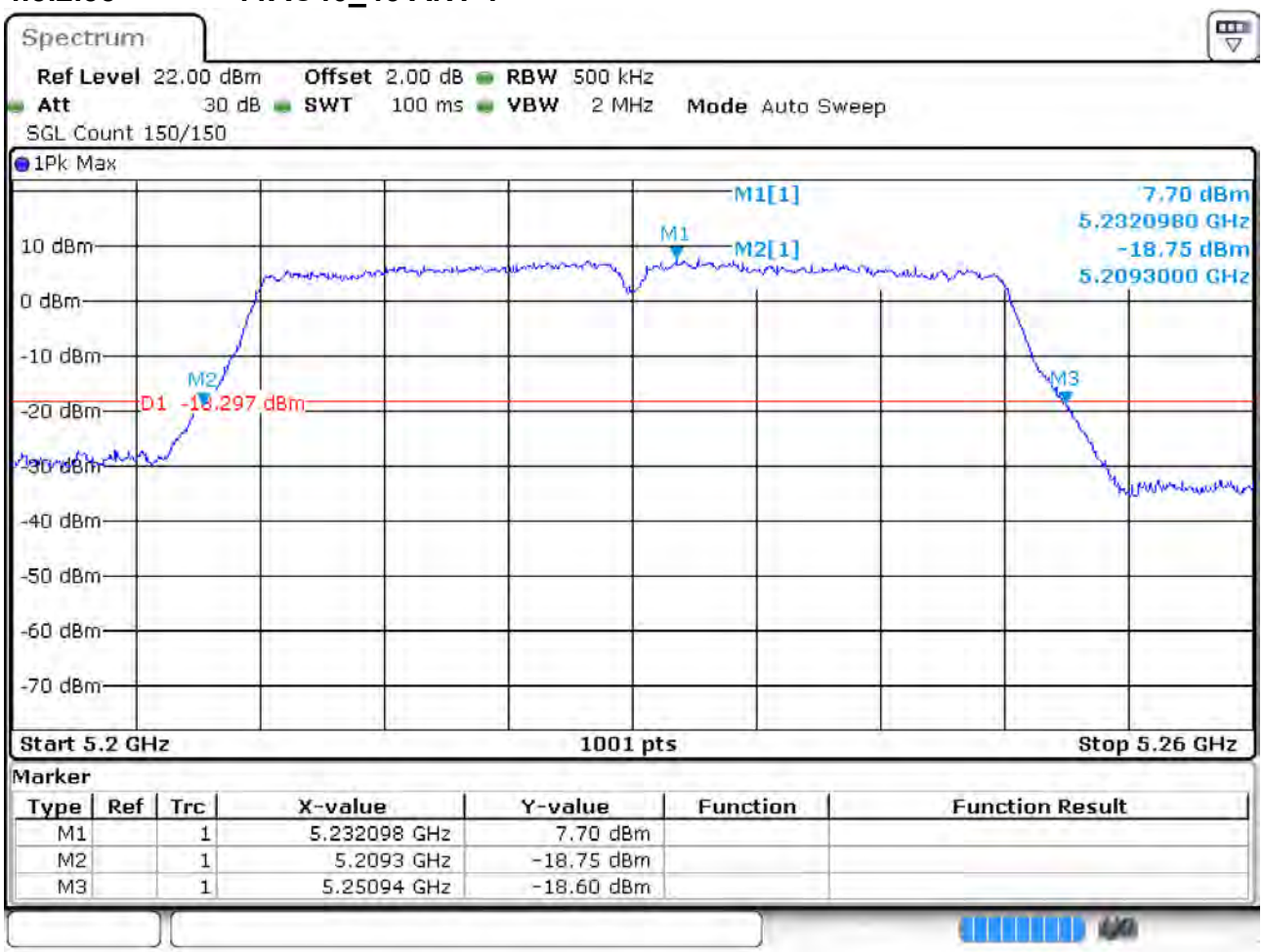
### 4.5.2.35 11AC40_46 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.232098 GHz | 7.70 dBm | | |
| M2 | | 1 | 5.2093 GHz | -18.75 dBm | | |
| M3 | | 1 | 5.25094 GHz | -18.60 dBm | | |

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

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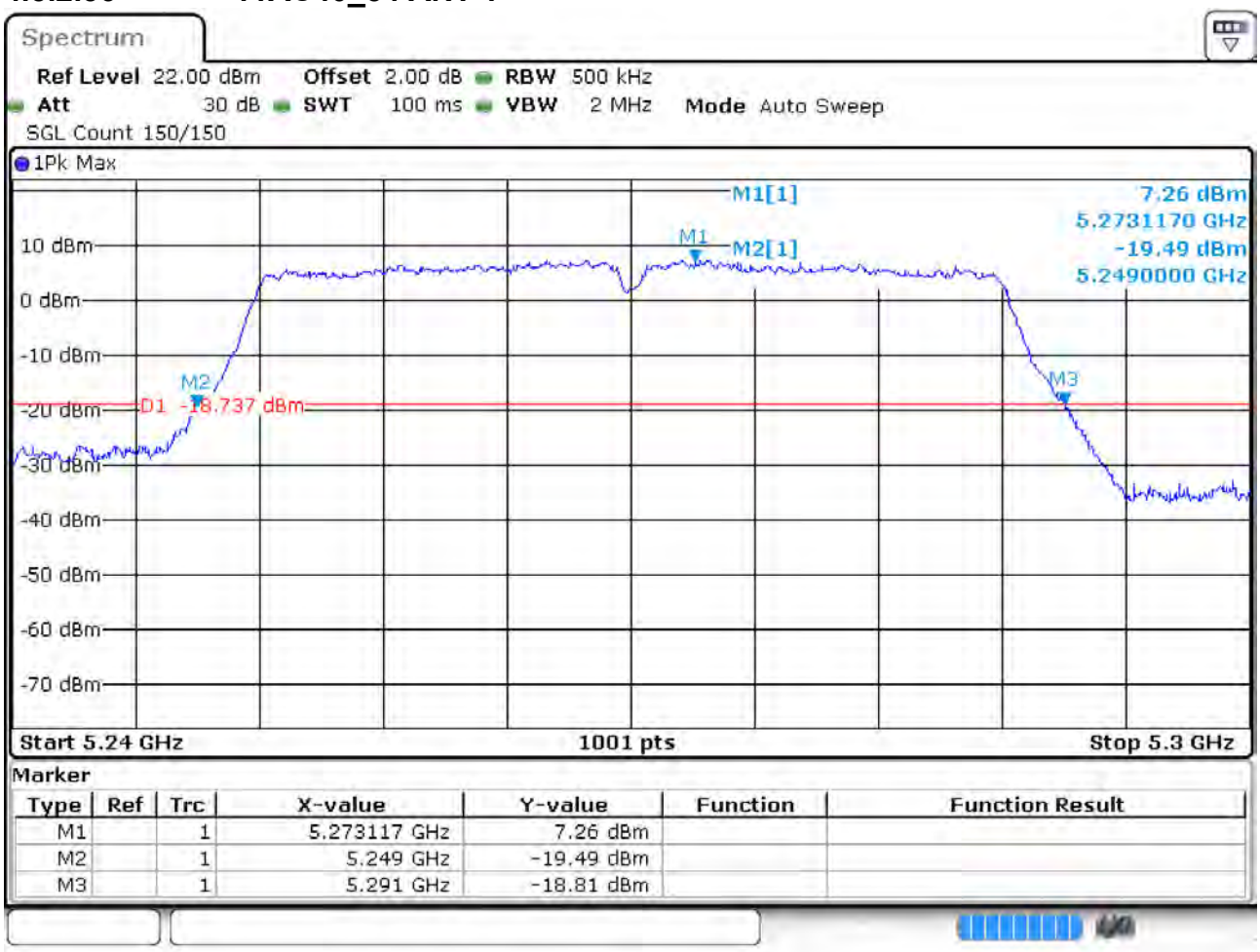
### 4.5.2.36 11AC40_54 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.273117 GHz | 7.26 dBm | | |
| M2 | | 1 | 5.249 GHz | -19.49 dBm | | |
| M3 | | 1 | 5.291 GHz | -18.81 dBm | | |

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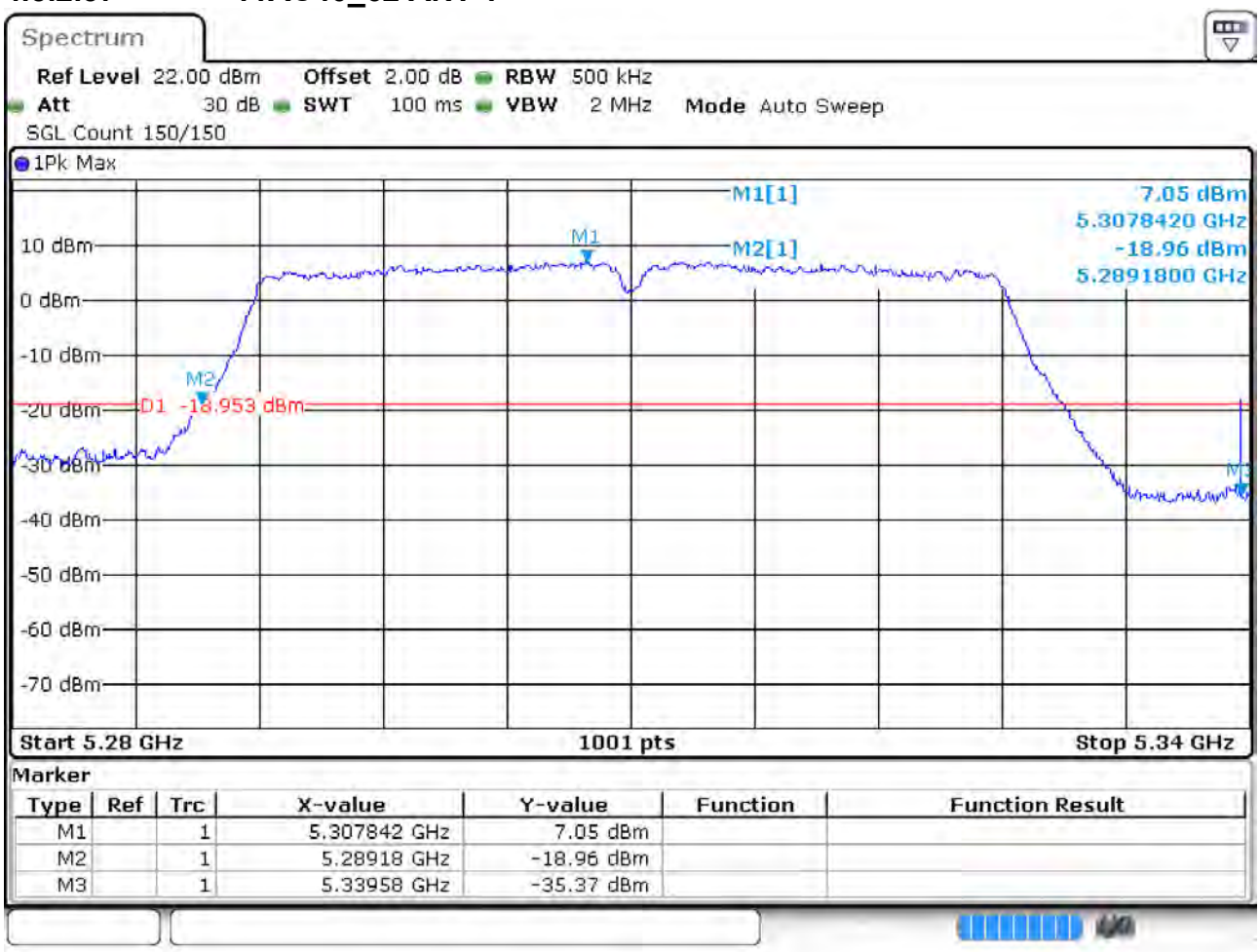
### 4.5.2.37 11AC40_62 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.307842 GHz | 7.05 dBm | | |
| M2 | | 1 | 5.28918 GHz | -18.96 dBm | | |
| M3 | | 1 | 5.33958 GHz | -35.37 dBm | | |

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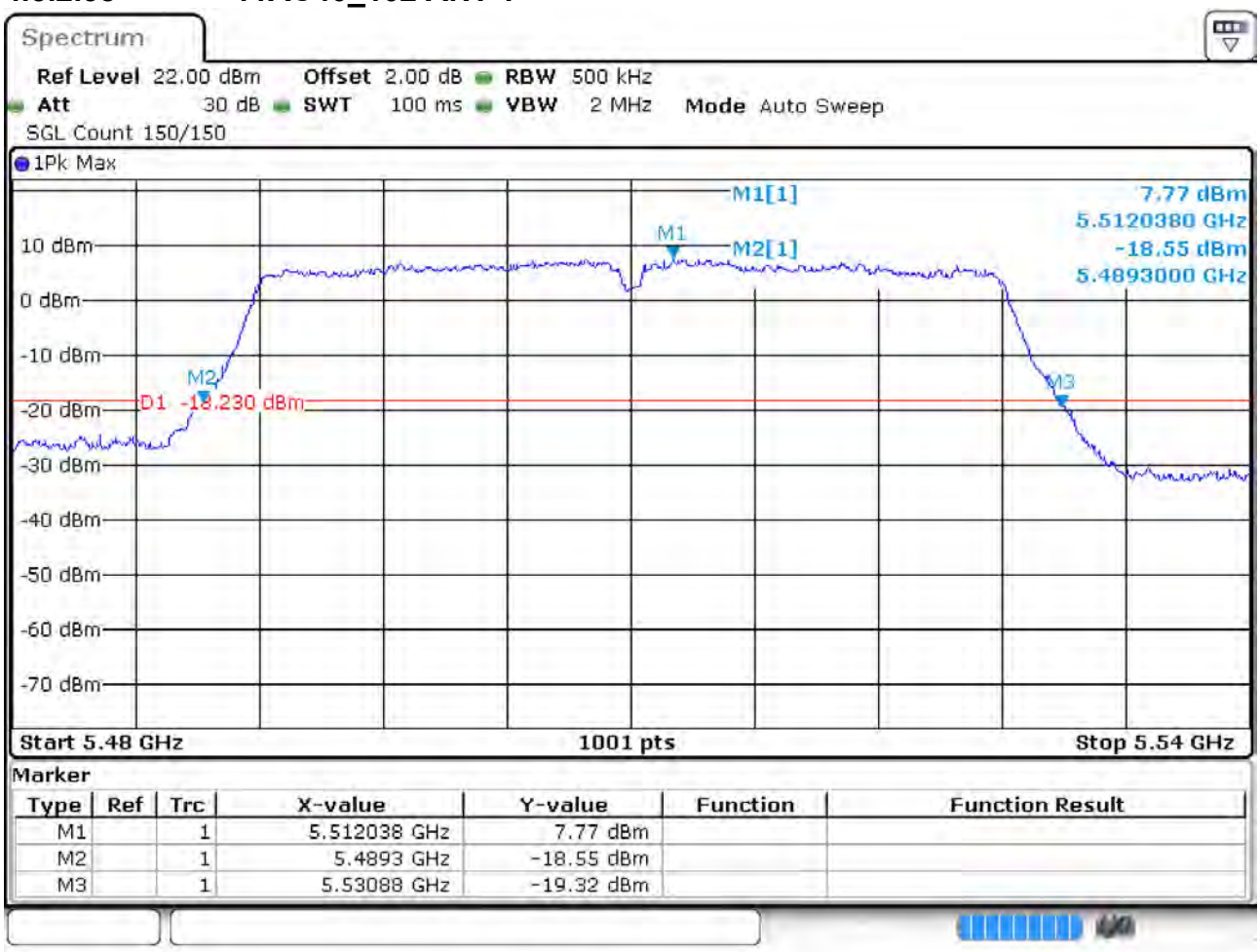
### 4.5.2.38 11AC40_102 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.512038 GHz | 7.77 dBm | | |
| M2 | | 1 | 5.4893 GHz | -18.55 dBm | | |
| M3 | | 1 | 5.53088 GHz | -19.32 dBm | | |

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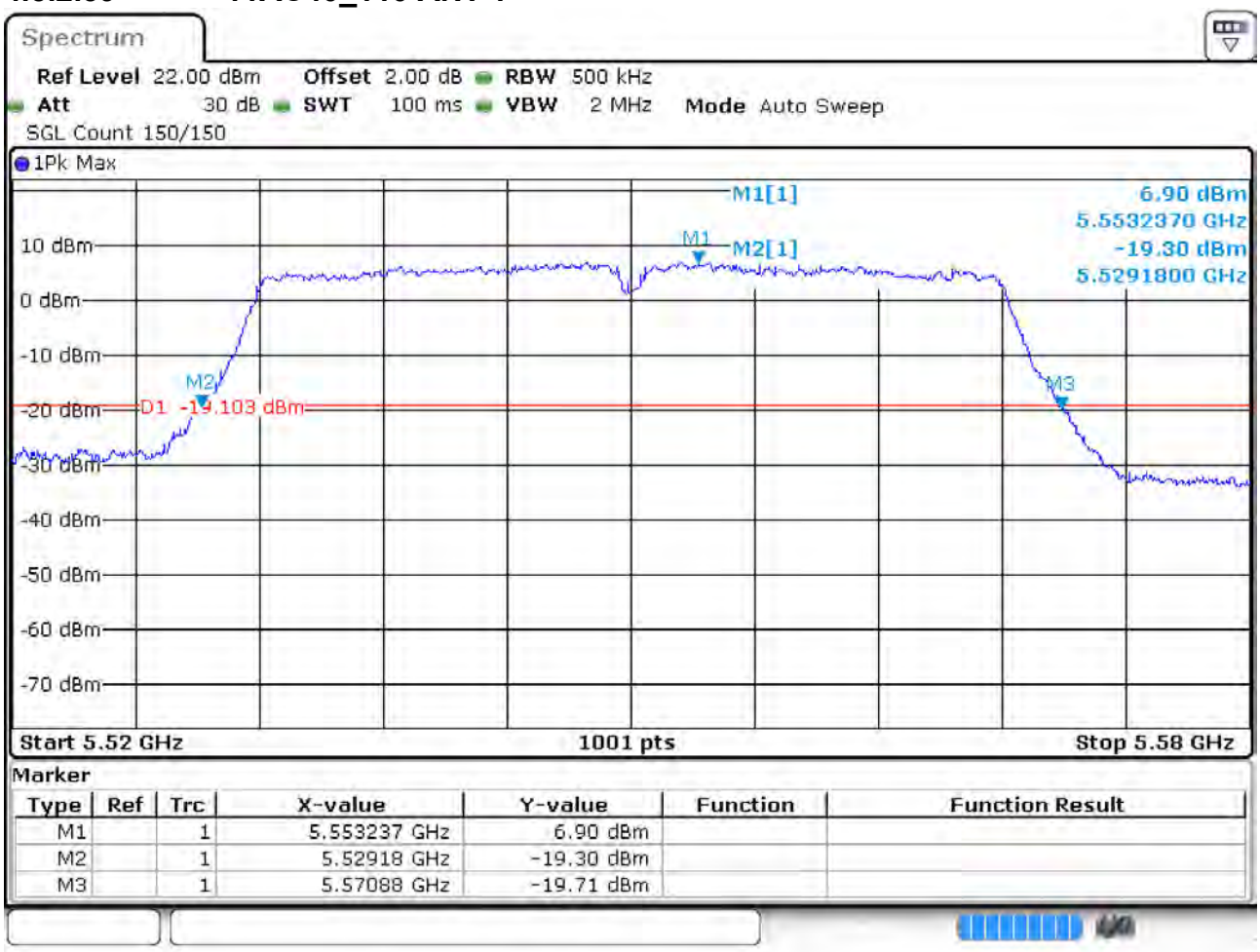
### 4.5.2.39 11AC40_110 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.553237 GHz | 6.90 dBm | | |
| M2 | | 1 | 5.52918 GHz | -19.30 dBm | | |
| M3 | | 1 | 5.57088 GHz | -19.71 dBm | | |

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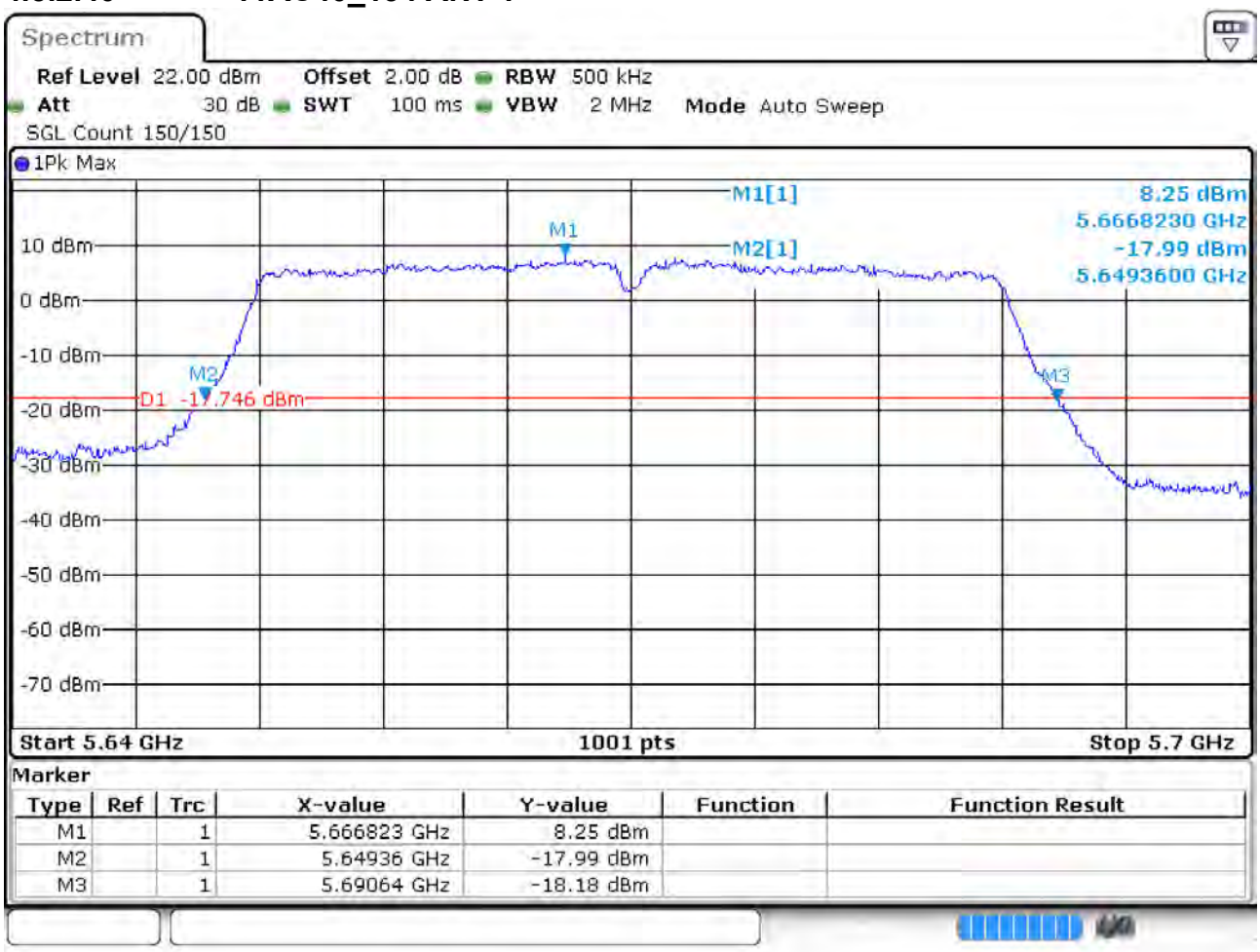
### 4.5.2.40 11AC40_134 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.666823 GHz | 8.25 dBm | | |
| M2 | | 1 | 5.64936 GHz | -17.99 dBm | | |
| M3 | | 1 | 5.69064 GHz | -18.18 dBm | | |

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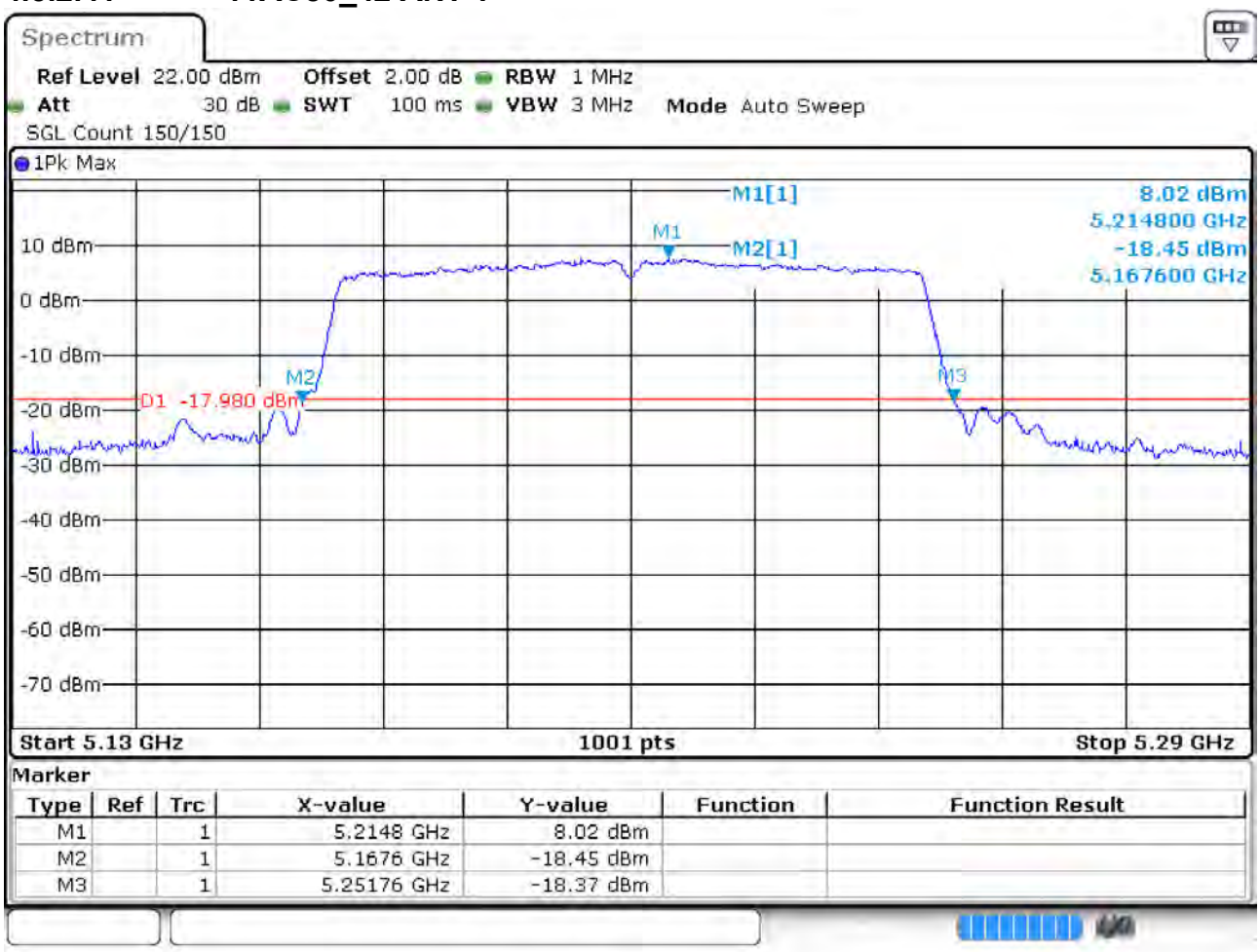
### 4.5.2.41 11AC80_42 ANT 1

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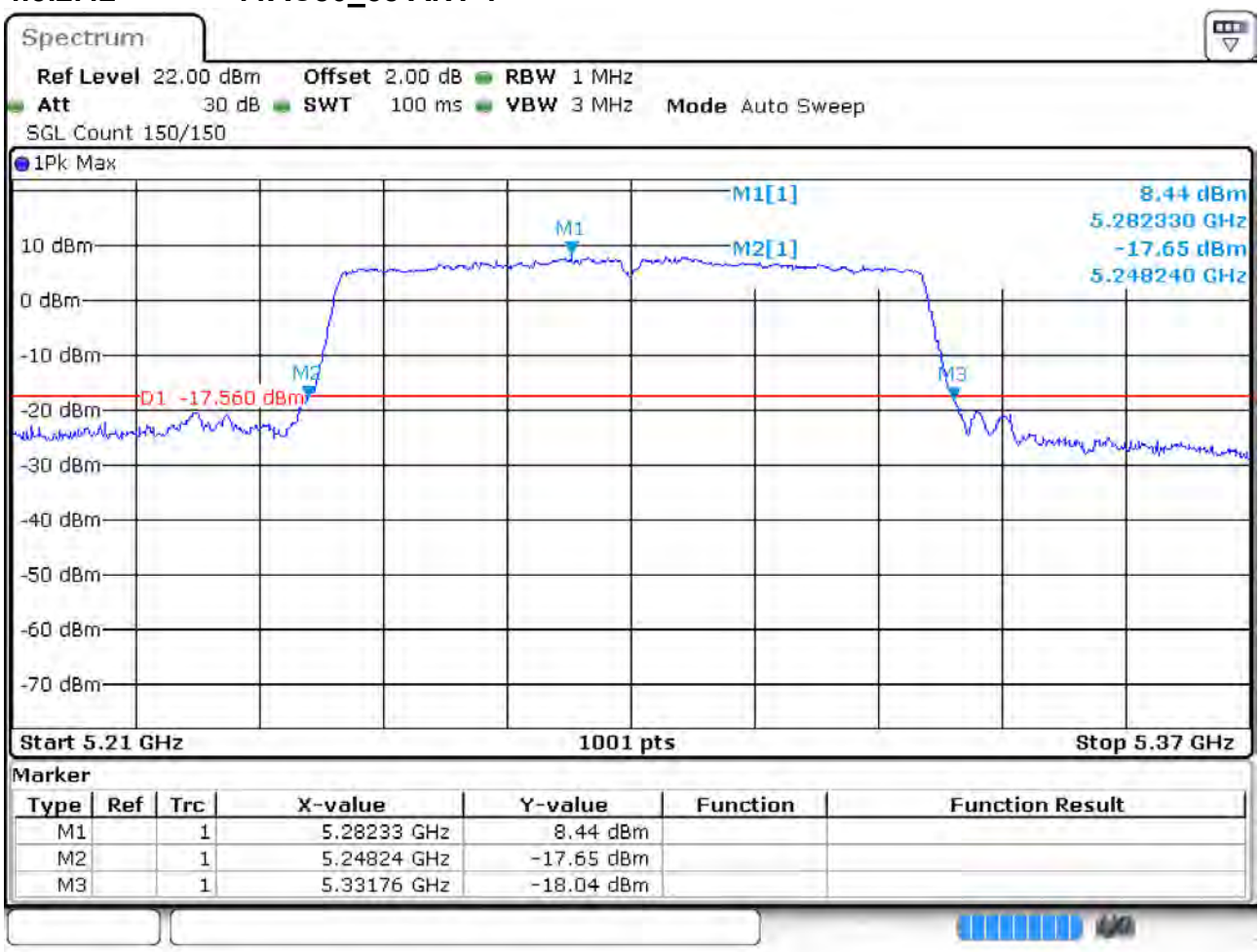
### 4.5.2.42 11AC80_58 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.28233 GHz | 8.44 dBm | | |
| M2 | | 1 | 5.24824 GHz | -17.65 dBm | | |
| M3 | | 1 | 5.33176 GHz | -18.04 dBm | | |

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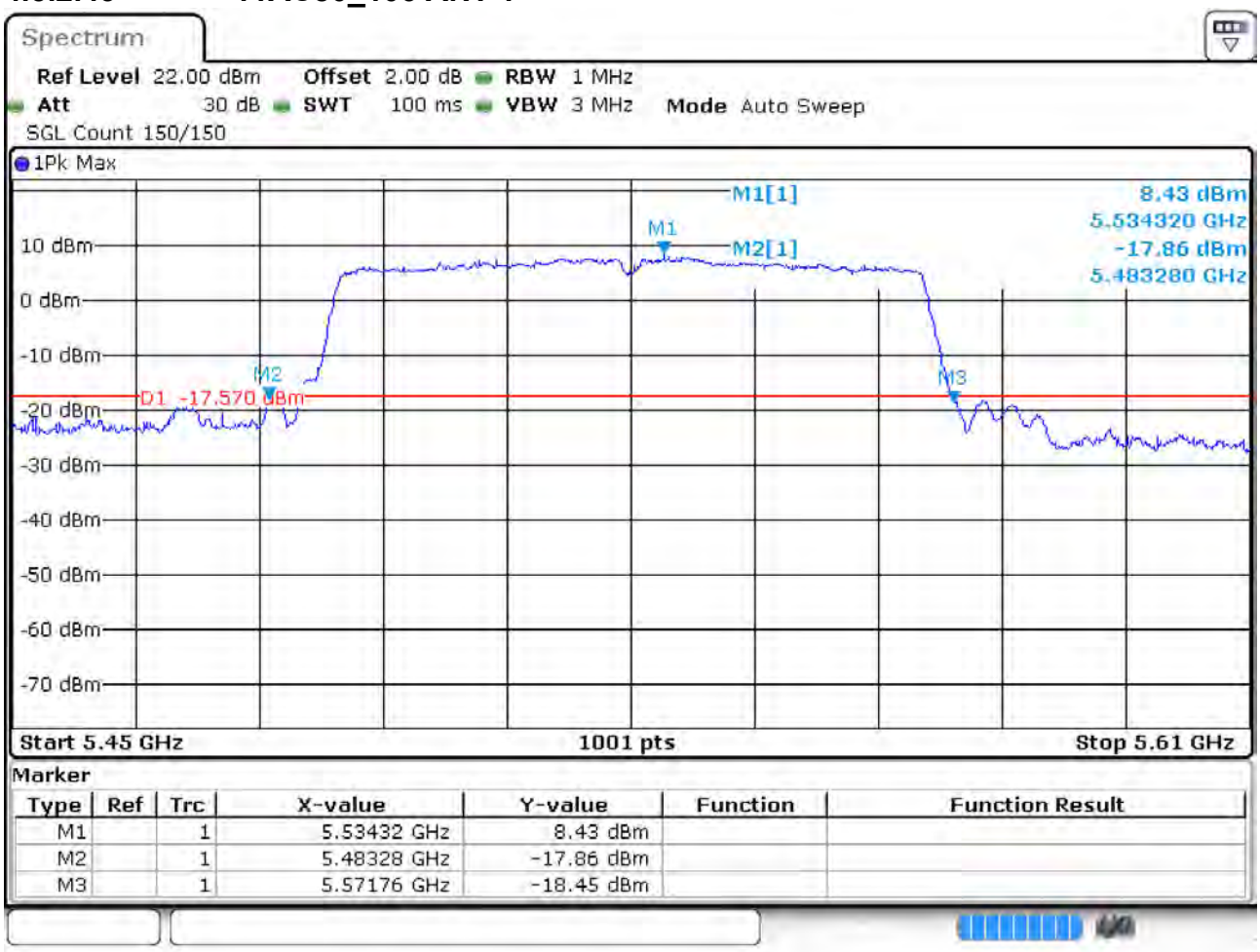
### 4.5.2.43 11AC80_106 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.53432 GHz | 8.43 dBm | | |
| M2 | | 1 | 5.48328 GHz | -17.86 dBm | | |
| M3 | | 1 | 5.57176 GHz | -18.45 dBm | | |

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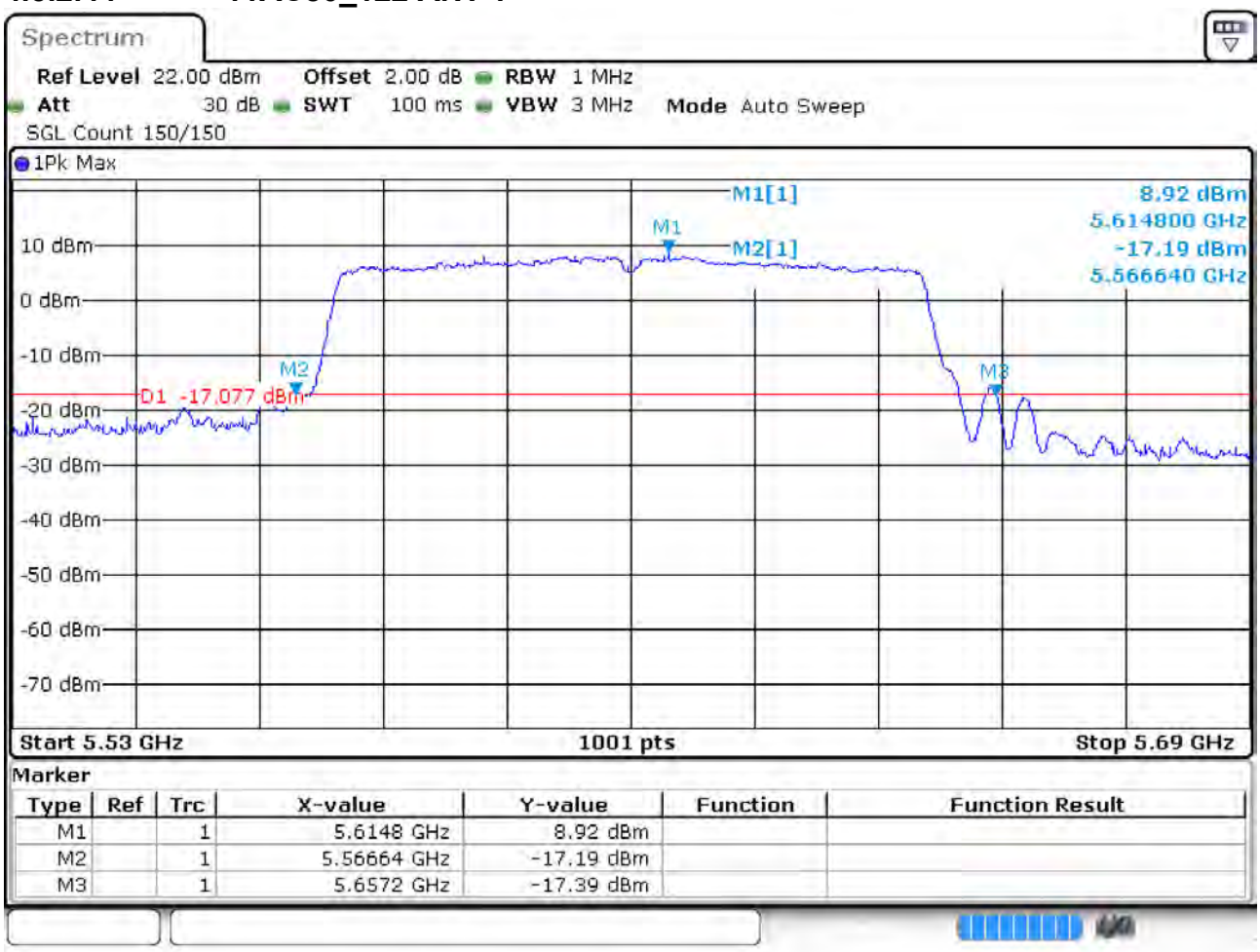
### 4.5.2.44 11AC80_122 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.6148 GHz | 8.92 dBm | | |
| M2 | | 1 | 5.56664 GHz | -17.19 dBm | | |
| M3 | | 1 | 5.6572 GHz | -17.39 dBm | | |

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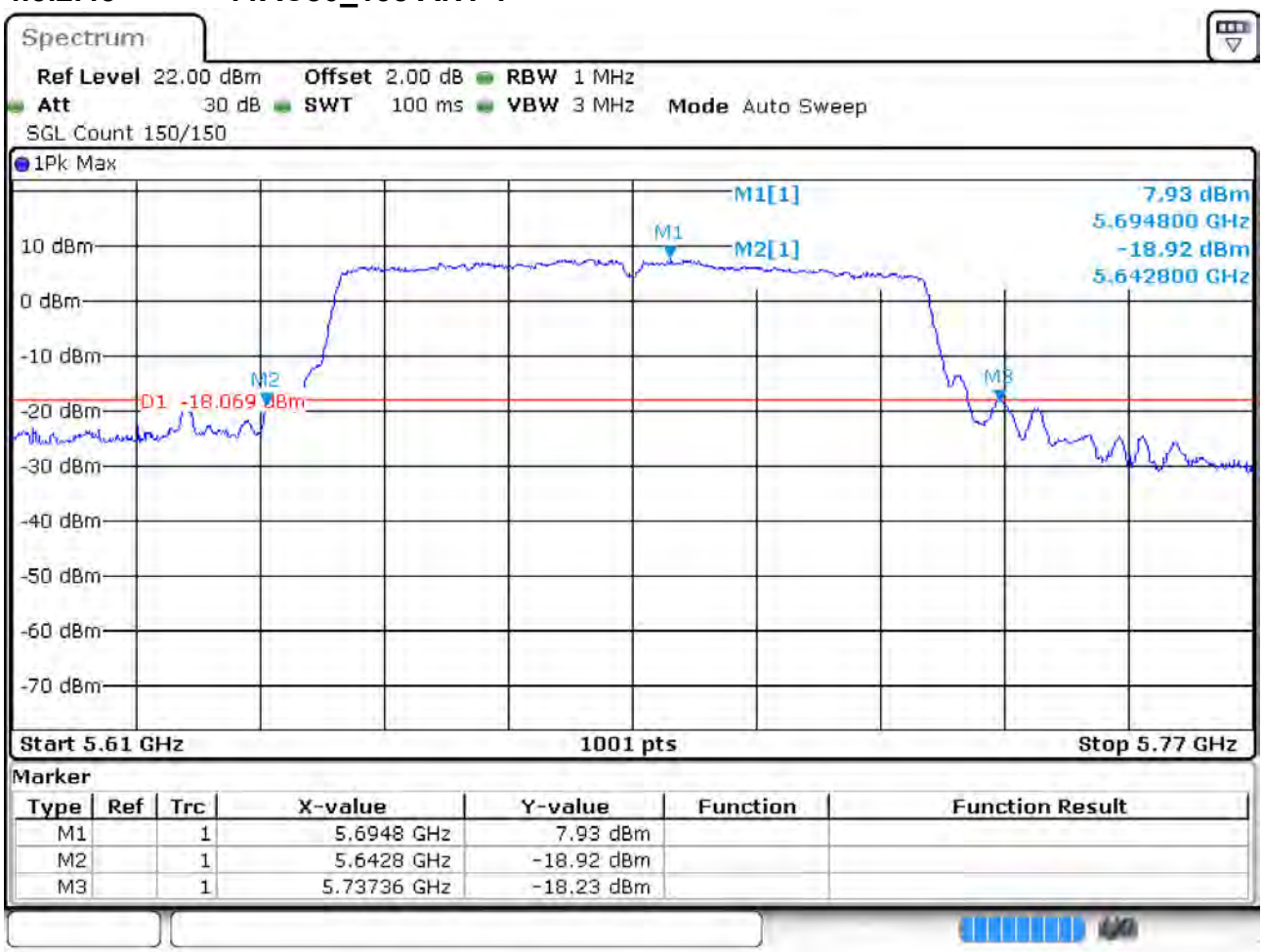
### 4.5.2.45 11AC80_138 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.6948 GHz | 7.93 dBm | | |
| M2 | | 1 | 5.6428 GHz | -18.92 dBm | | |
| M3 | | 1 | 5.73736 GHz | -18.23 dBm | | |

Date: 11.SEP.2020 19:51:14

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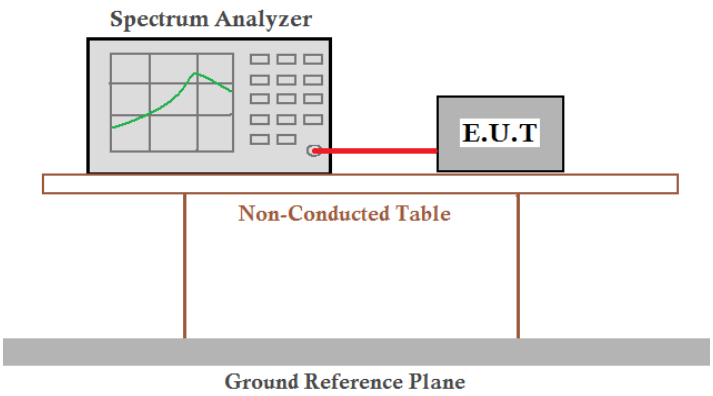
## 4.6 6dB Emission Bandwidth

| | | |
|---|---|---|
| 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: | Through Pre-scan, find the<br>6Mbps of rate is the worst case of 802.11a;<br>MCS0 of rate is the worst case of 802.11n(HT20);<br>MCS0 of rate is the worst case of 802.11n(HT40);<br>MCS0 of rate is the worst case of 802.11ac(HT20);<br>MCS0 of rate is the worst case of 802.11ac(HT40);<br>MCS0 of rate is the worst case of 802.11ac(HT80).<br>Only the worst case is recorded in the report. | |
| Limit: | Frequency Band | Limit |
| | 5725-5850MHz | At lease 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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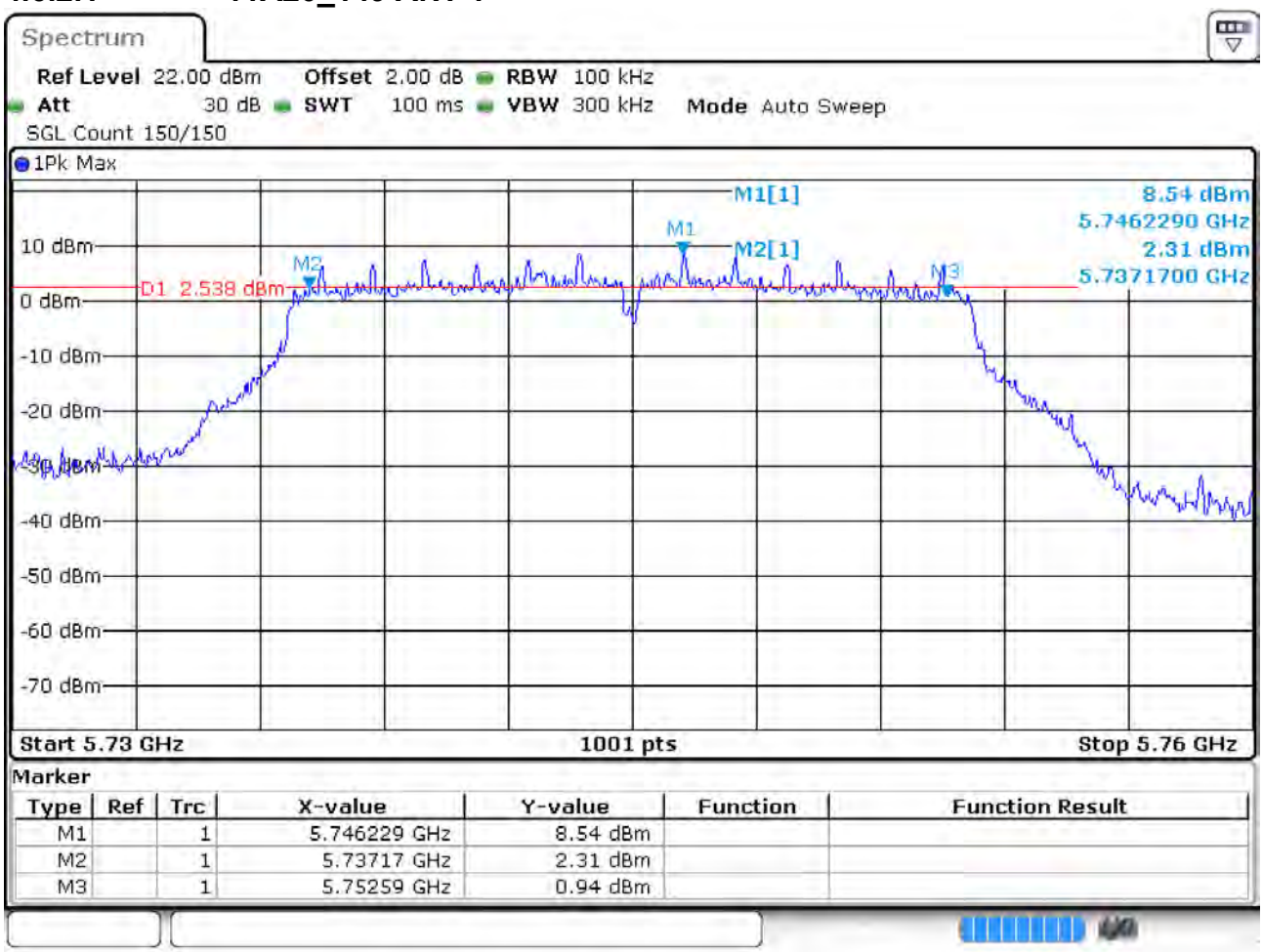
## 4.6.2 Plots for 6dB Emission Bandwidth

### 4.6.2.1 11A20_149 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.746229 GHz | 8.54 dBm | | |
| M2 | | 1 | 5.73717 GHz | 2.31 dBm | | |
| M3 | | 1 | 5.75259 GHz | 0.94 dBm | | |

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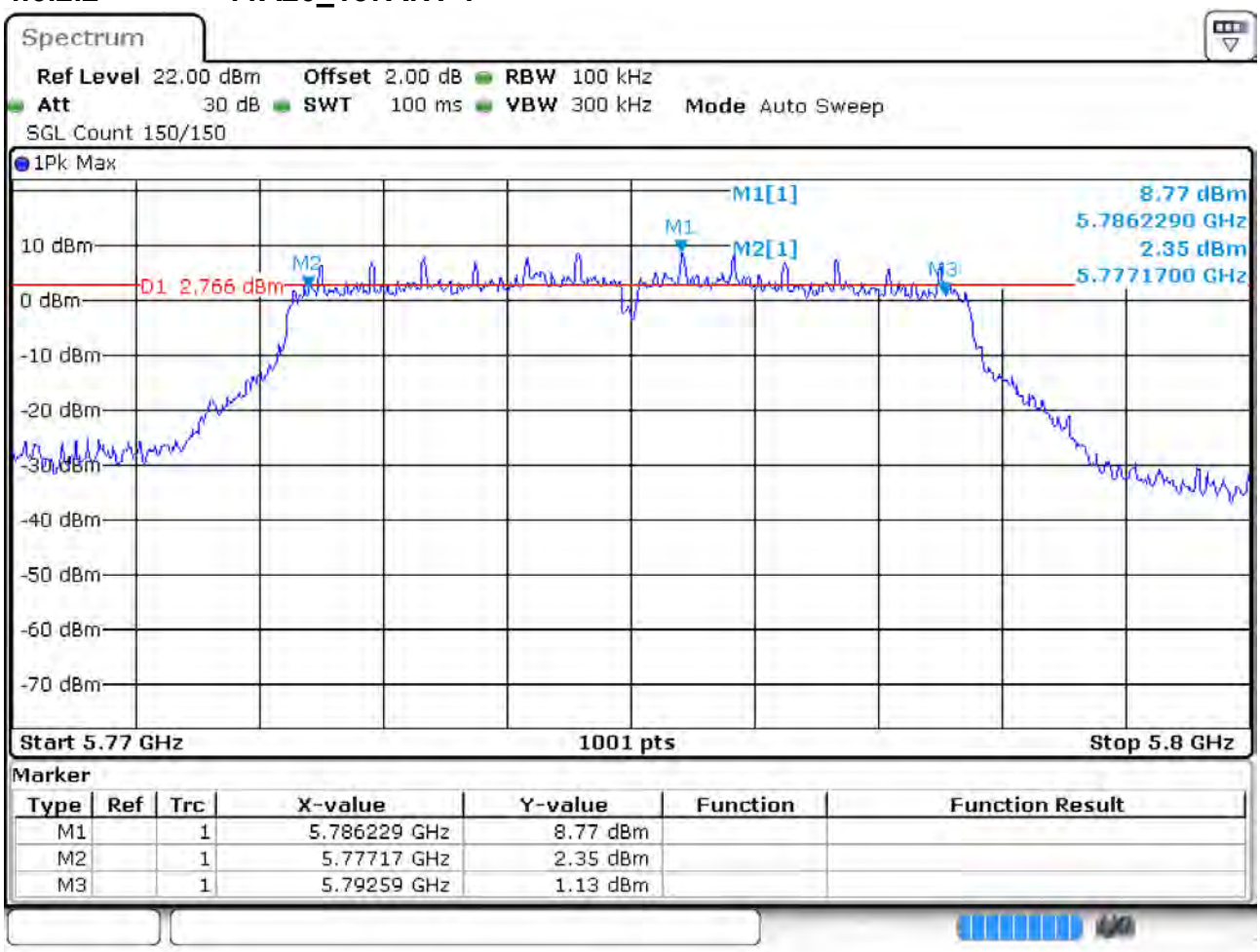
### 4.6.2.2 11A20_157ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.786229 GHz | 8.77 dBm | | |
| M2 | | 1 | 5.77717 GHz | 2.35 dBm | | |
| M3 | | 1 | 5.79259 GHz | 1.13 dBm | | |

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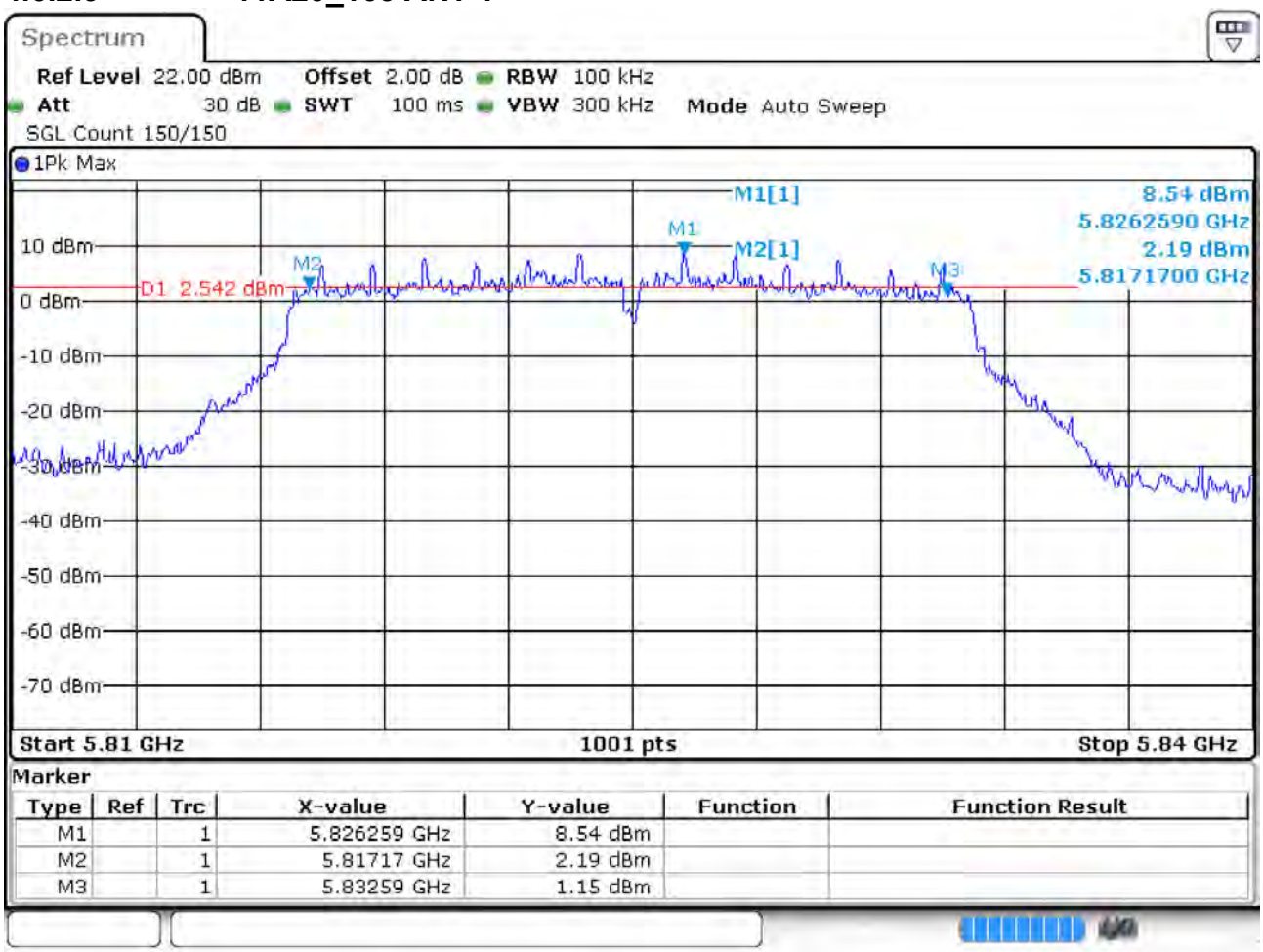
### 4.6.2.3 11A20_165 ANT 1

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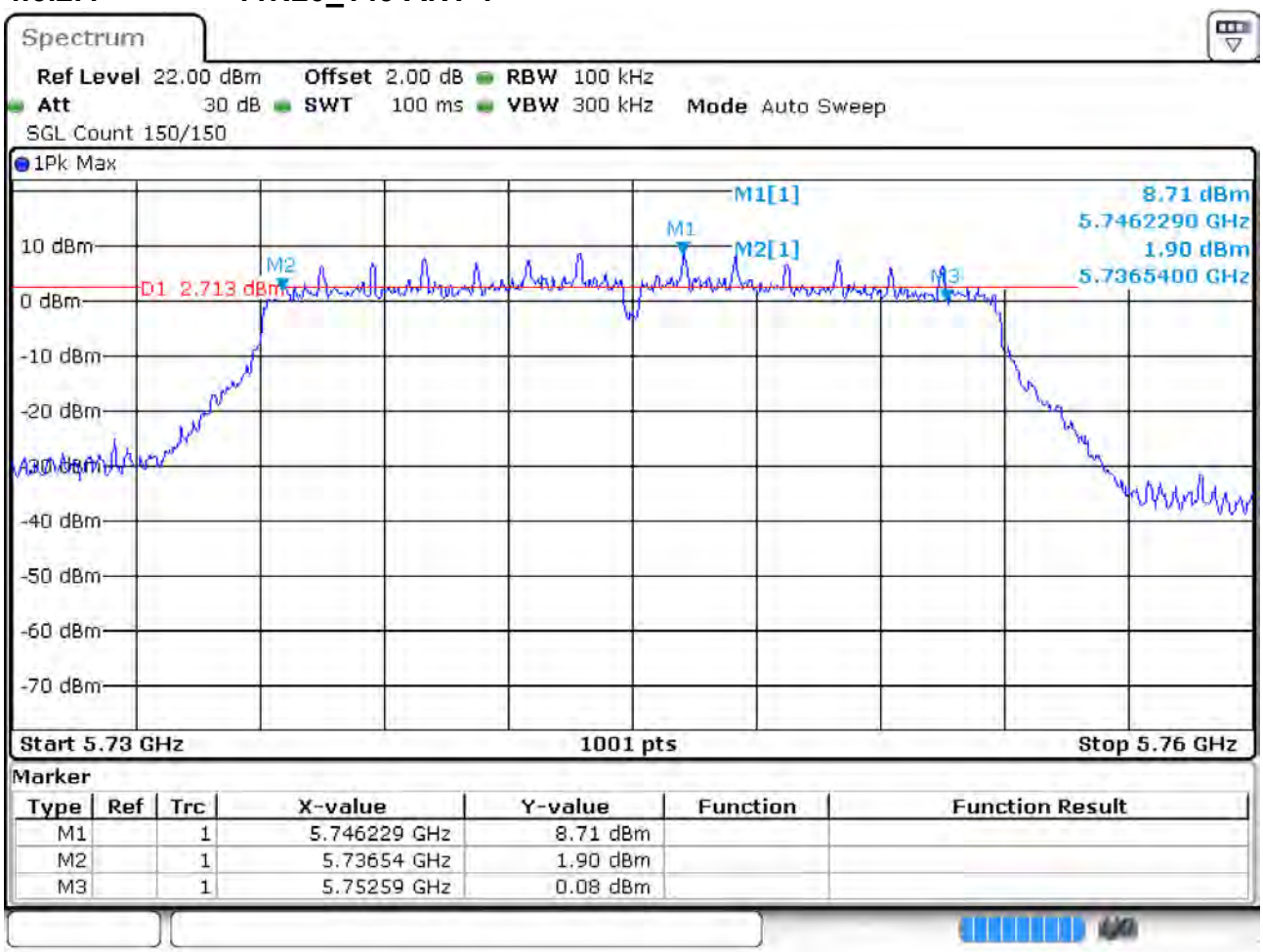
### 4.6.2.4 11N20_149 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.746229 GHz | 8.71 dBm | | |
| M2 | | 1 | 5.73654 GHz | 1.90 dBm | | |
| M3 | | 1 | 5.75259 GHz | 0.08 dBm | | |

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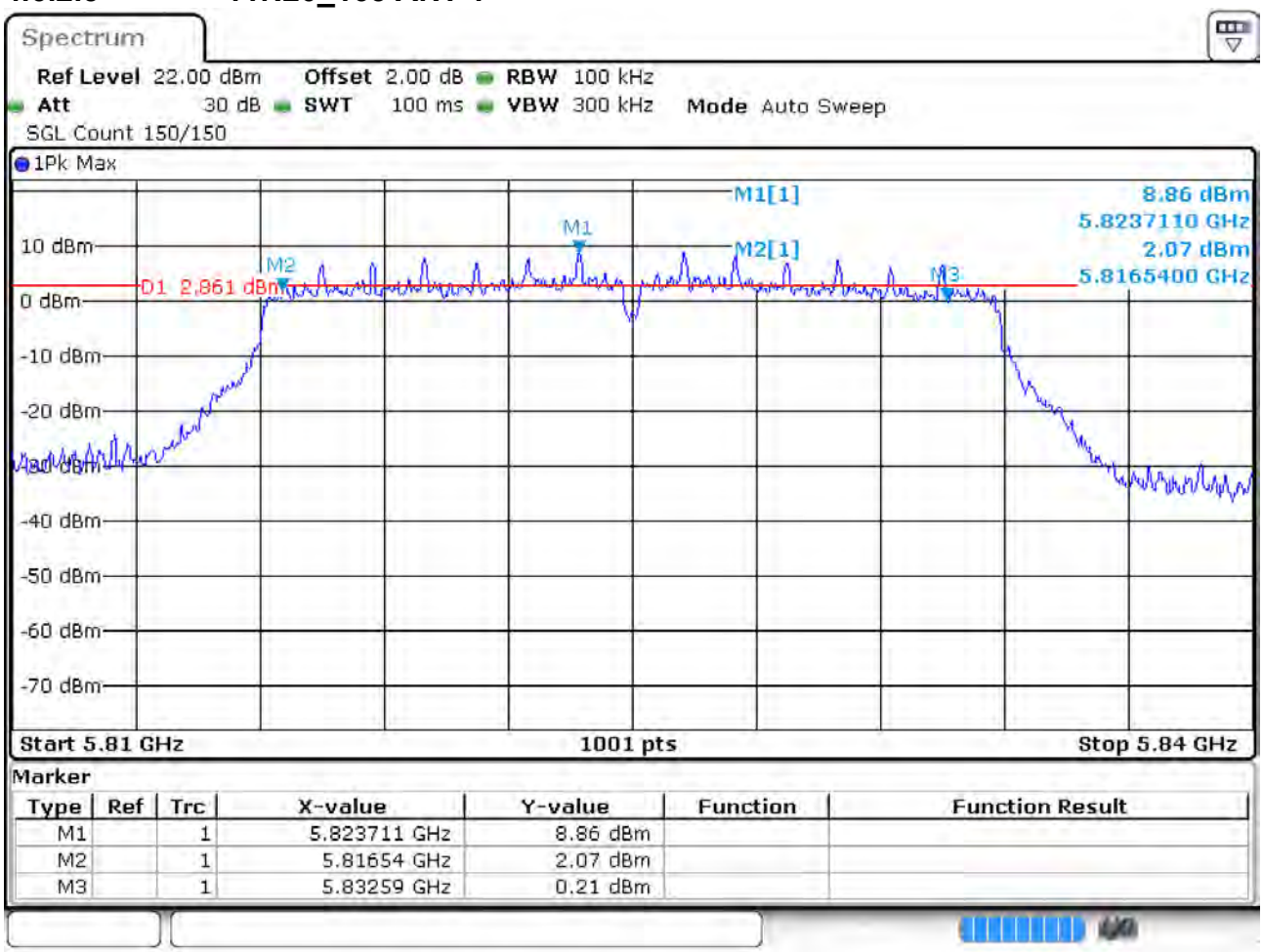
### 4.6.2.5 11N20_165 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.823711 GHz | 8.86 dBm | | |
| M2 | | 1 | 5.81654 GHz | 2.07 dBm | | |
| M3 | | 1 | 5.83259 GHz | 0.21 dBm | | |

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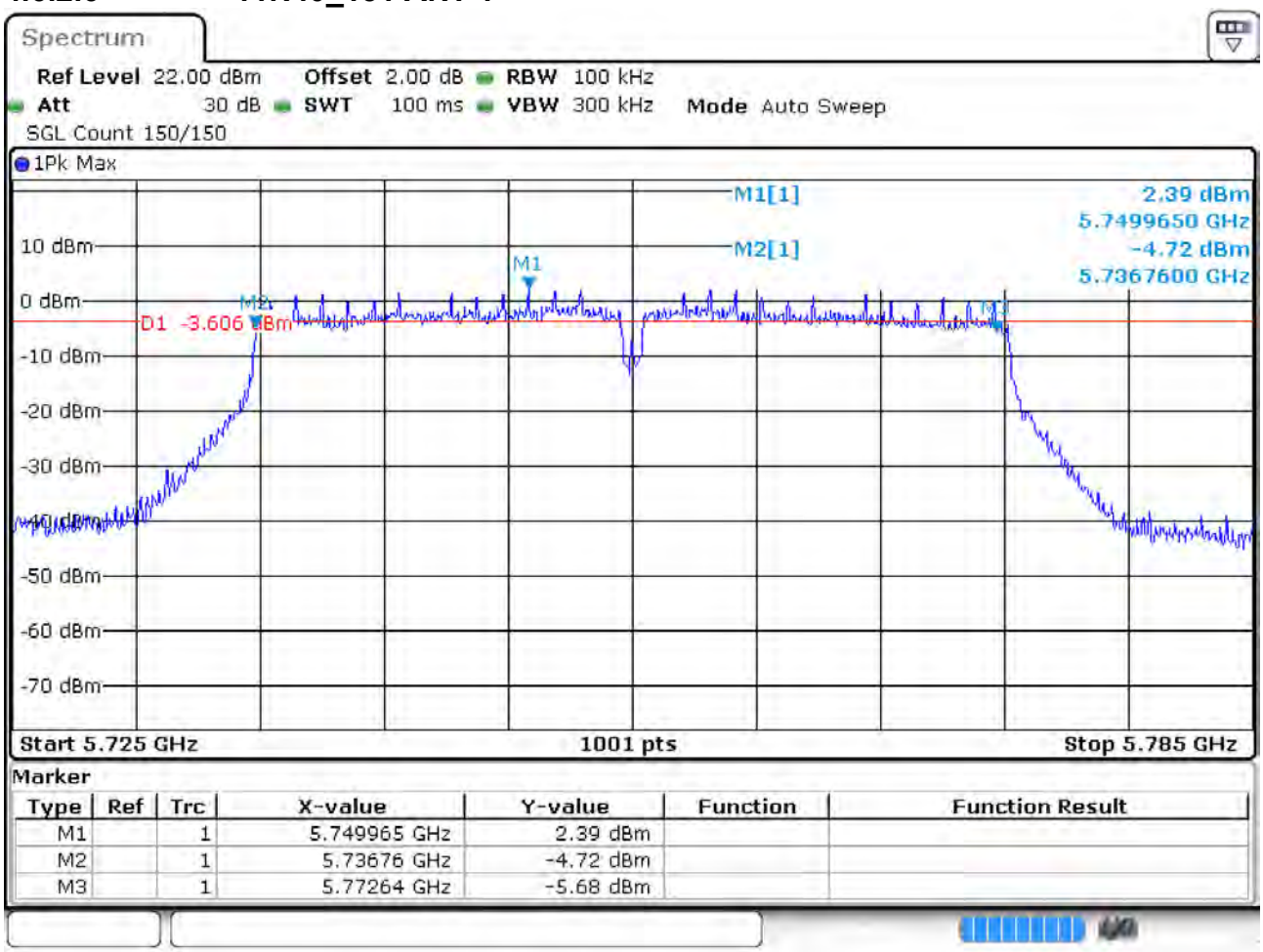
### 4.6.2.6 11N40_151 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.749965 GHz | 2.39 dBm | | |
| M2 | | 1 | 5.73676 GHz | -4.72 dBm | | |
| M3 | | 1 | 5.77264 GHz | -5.68 dBm | | |

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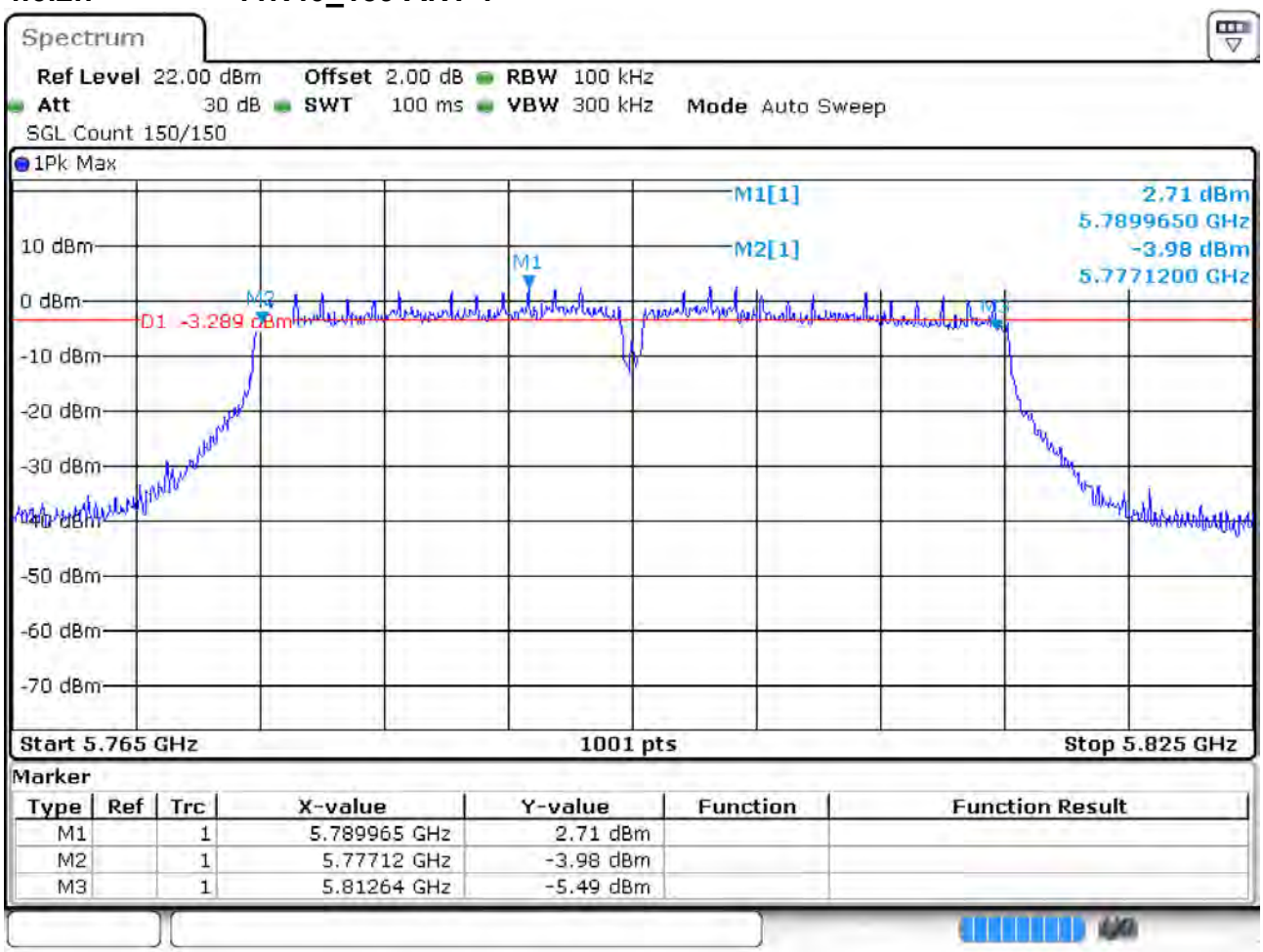
### 4.6.2.7 11N40_159 ANT 1

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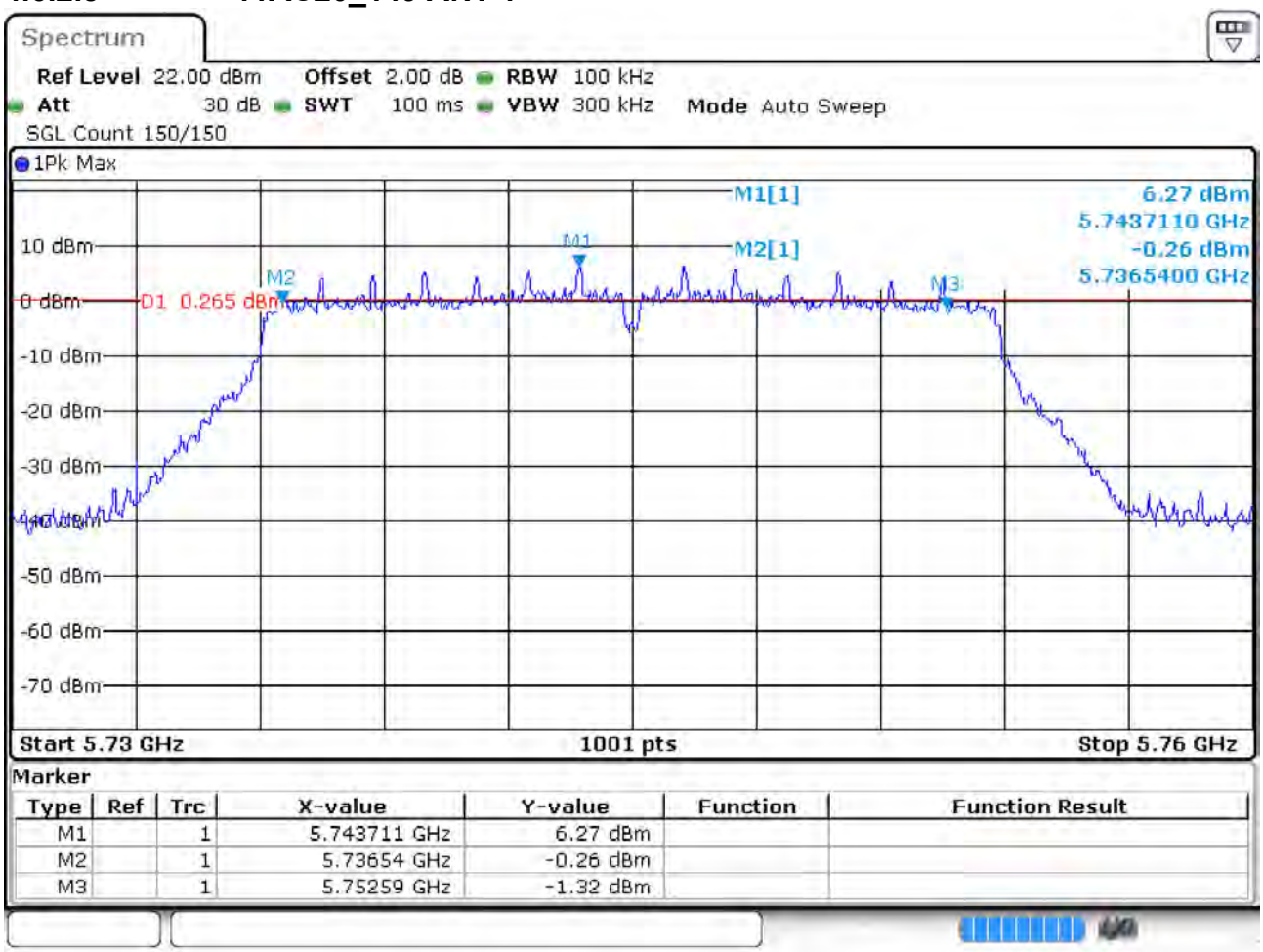
### 4.6.2.8 11AC20_149 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.743711 GHz | 6.27 dBm | | |
| M2 | | 1 | 5.73654 GHz | -0.26 dBm | | |
| M3 | | 1 | 5.75259 GHz | -1.32 dBm | | |

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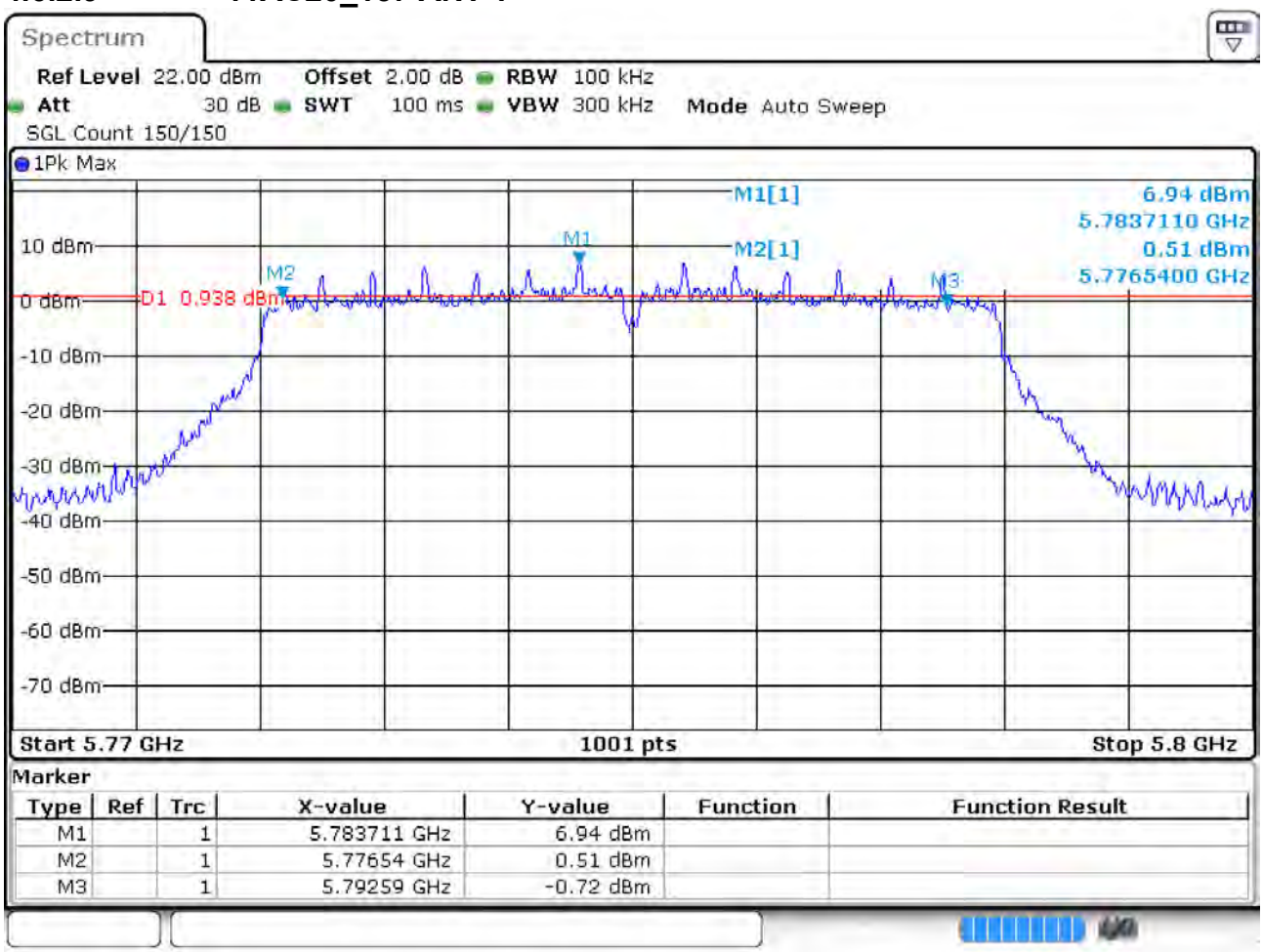
### 4.6.2.9 11AC20_157 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.783711 GHz | 6.94 dBm | | |
| M2 | | 1 | 5.77654 GHz | 0.51 dBm | | |
| M3 | | 1 | 5.79259 GHz | -0.72 dBm | | |

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

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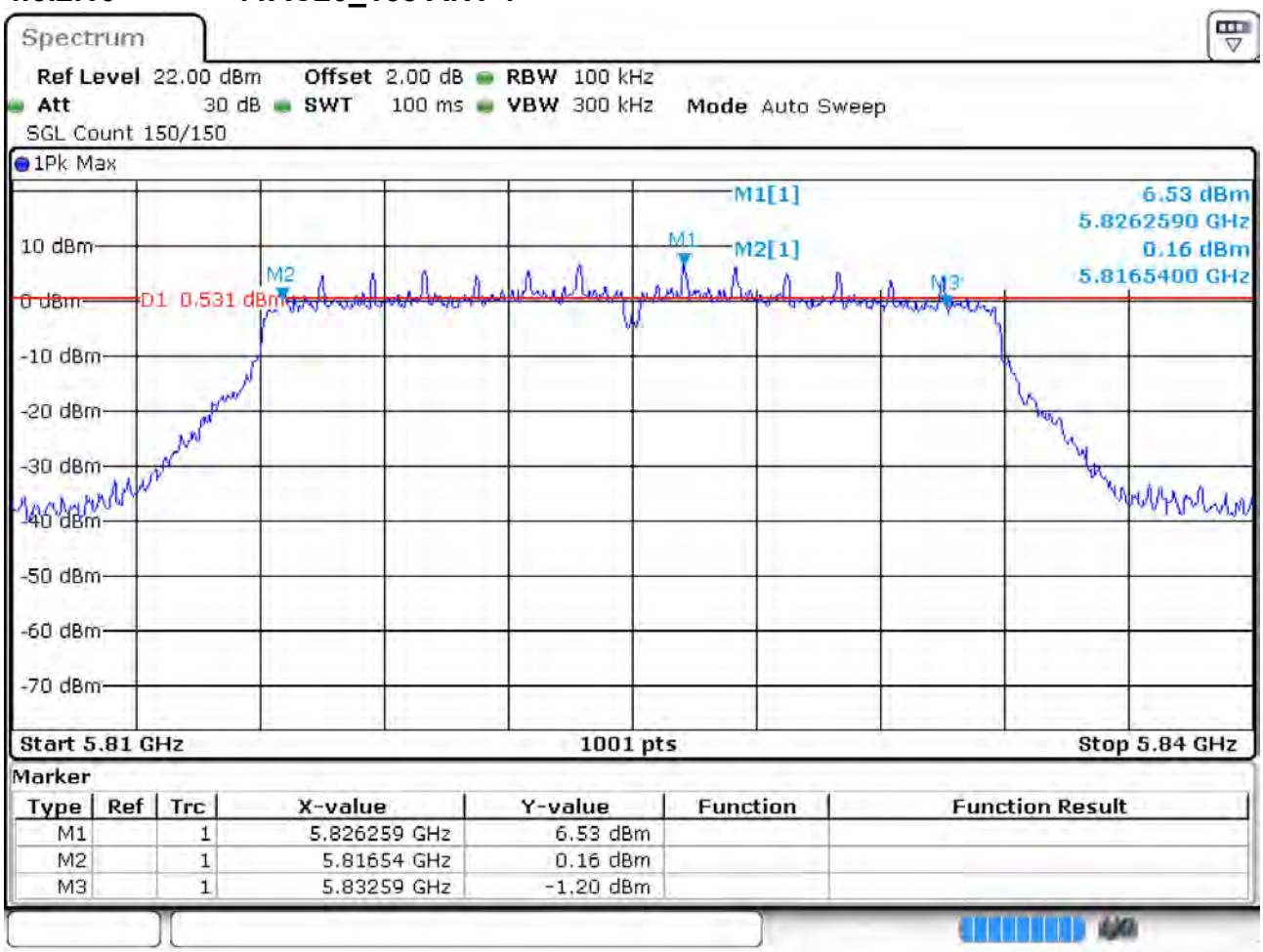
### 4.6.2.10 11AC20_165 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.826259 GHz | 6.53 dBm | | |
| M2 | | 1 | 5.81654 GHz | 0.16 dBm | | |
| M3 | | 1 | 5.83259 GHz | -1.20 dBm | | |

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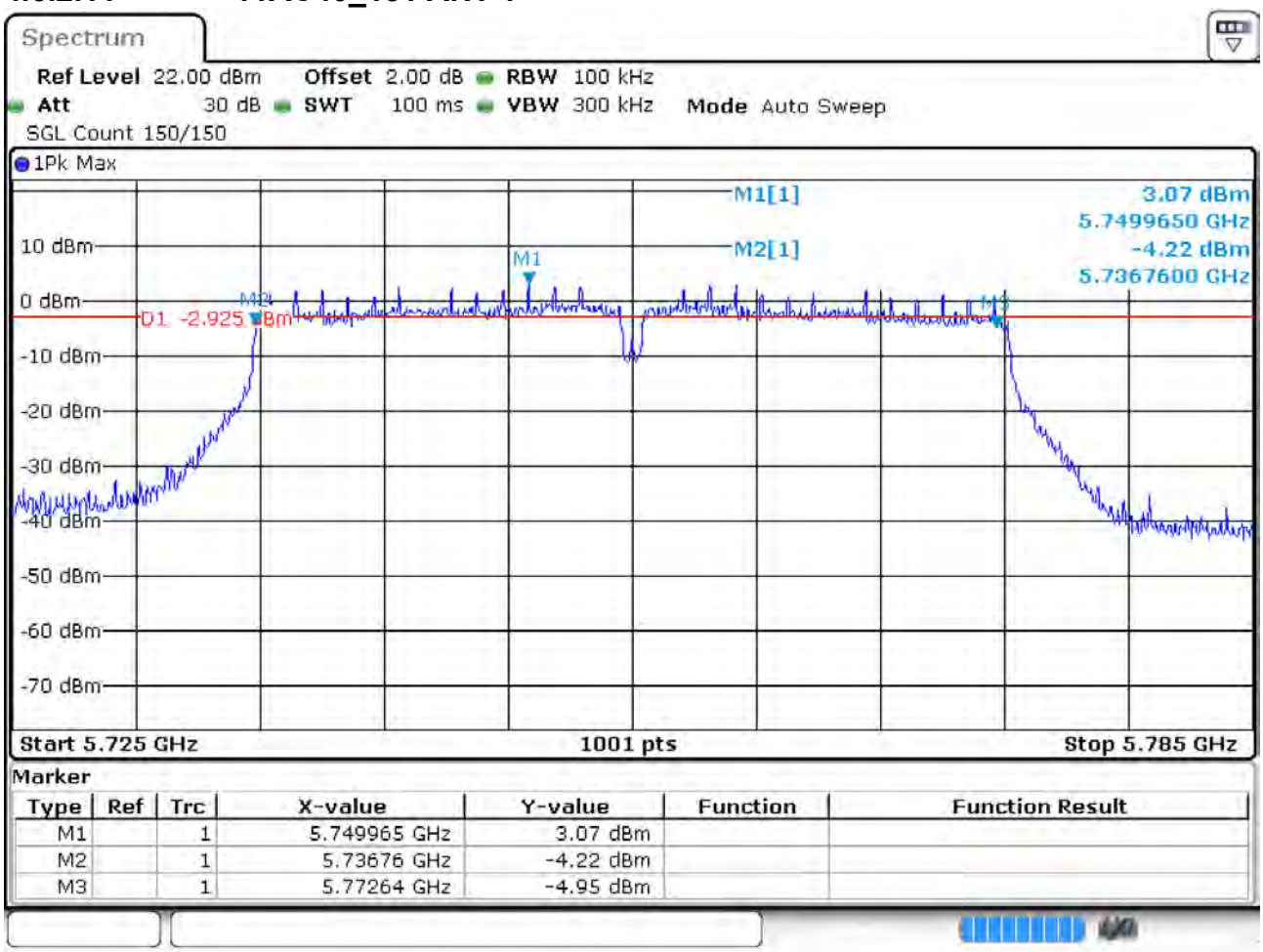
### 4.6.2.11 11AC40_151 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.749965 GHz | 3.07 dBm | | |
| M2 | | 1 | 5.73676 GHz | -4.22 dBm | | |
| M3 | | 1 | 5.77264 GHz | -4.95 dBm | | |

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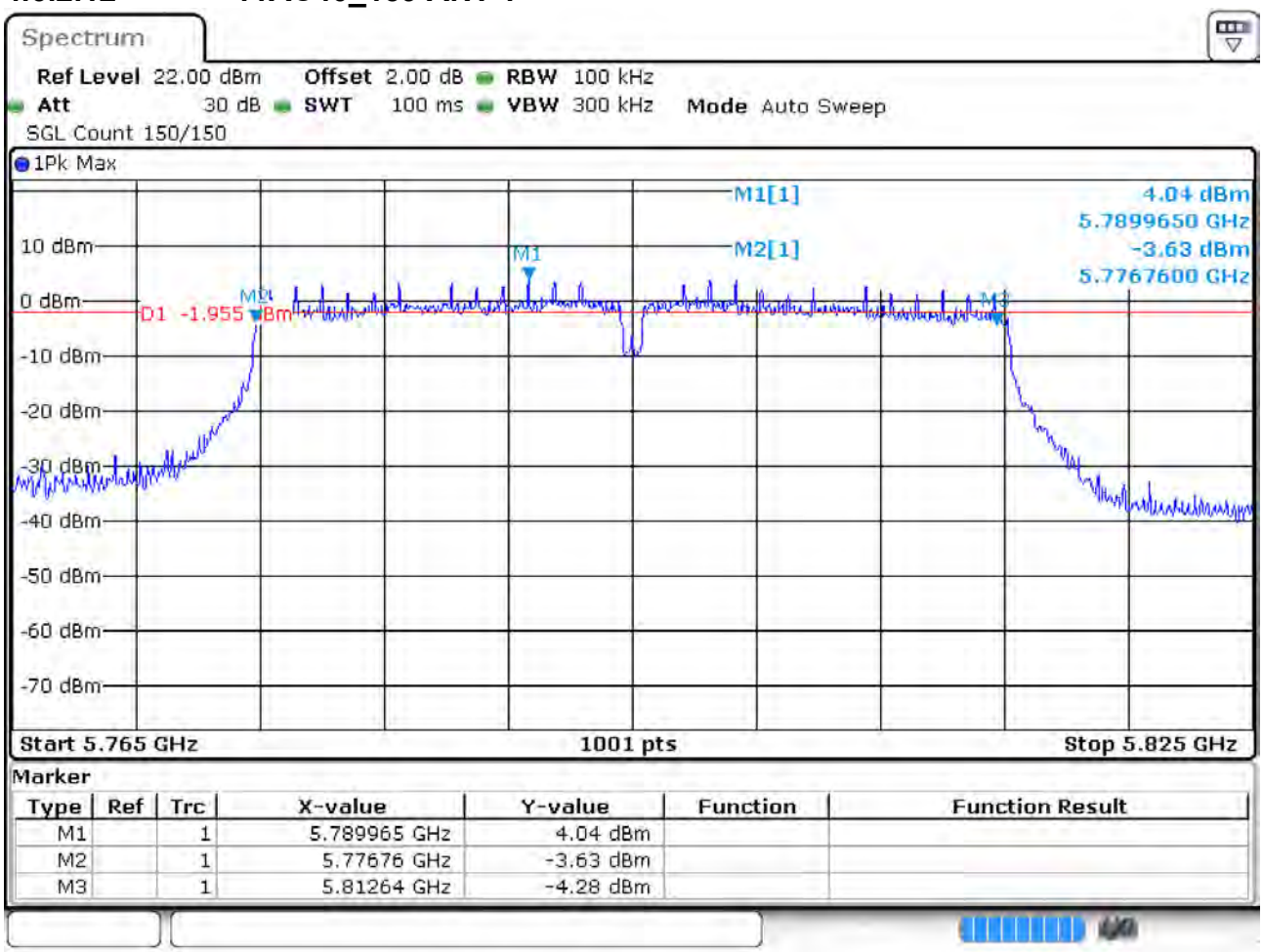
### 4.6.2.12 11AC40_159 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.789965 GHz | 4.04 dBm | | |
| M2 | | 1 | 5.77676 GHz | -3.63 dBm | | |
| M3 | | 1 | 5.81264 GHz | -4.28 dBm | | |

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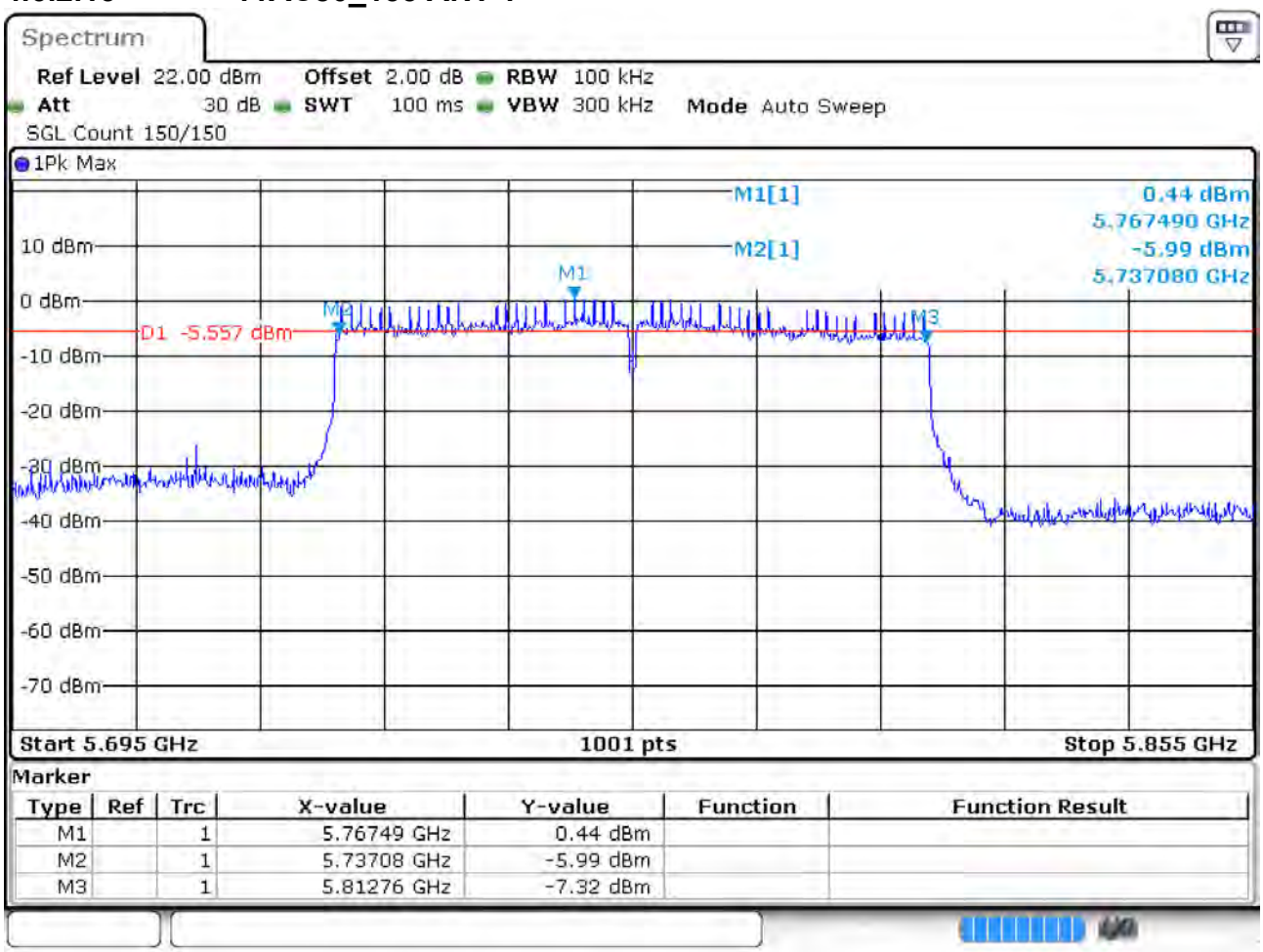
### 4.6.2.13 11AC80_155 ANT 1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.76749 GHz | 0.44 dBm | | |
| M2 | | 1 | 5.73708 GHz | -5.99 dBm | | |
| M3 | | 1 | 5.81276 GHz | -7.32 dBm | | |

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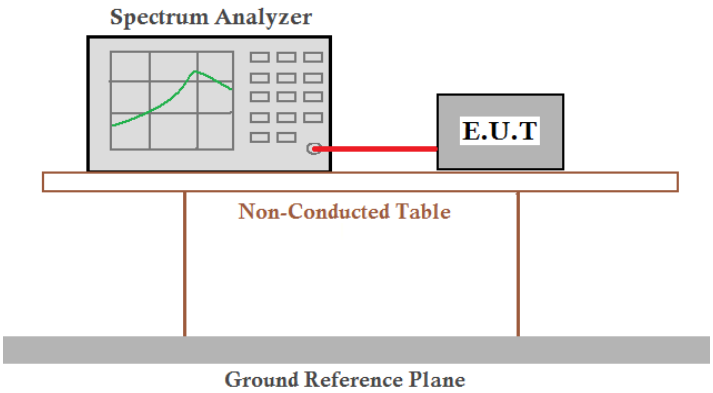
## 4.7 99% Occupied Bandwidth

| | | |
|---|---|---|
| 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: | Through Pre-scan, find the<br>6Mbps of rate is the worst case of 802.11a;<br>MCS0 of rate is the worst case of 802.11n(HT20);<br>MCS0 of rate is the worst case of 802.11n(HT40);<br>MCS0 of rate is the worst case of 802.11ac(HT20);<br>MCS0 of rate is the worst case of 802.11ac(HT40);<br>MCS0 of rate is the worst case of 802.11ac(HT80).<br>Only the worst case is recorded in the report. | |
| Limit: | Frequency Band | Limit |
| | 5725-5850MHz | At lease 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 | PASS |
| | 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 | 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 | 36.3237 | 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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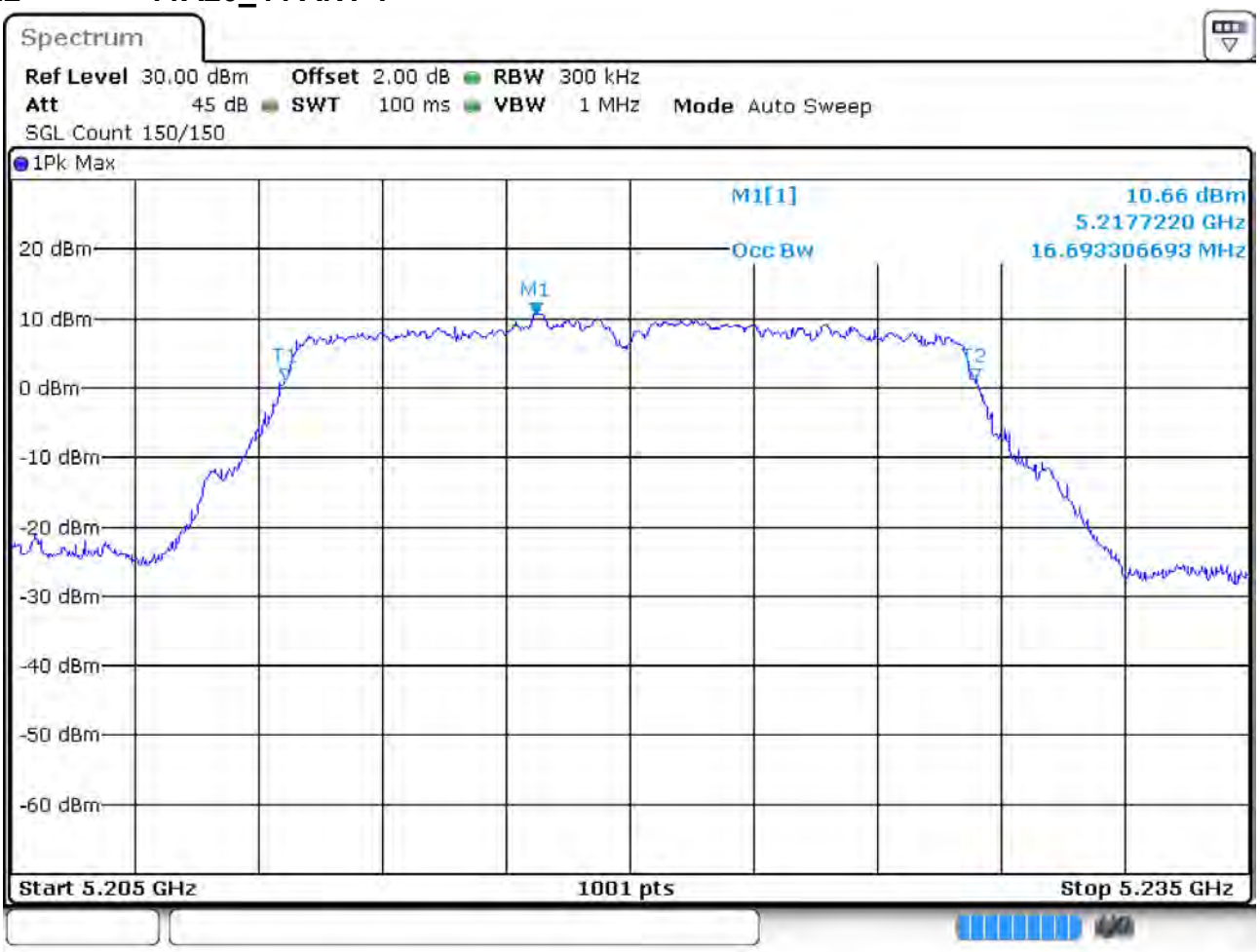
### 4.7.2.2 11A20_44 ANT 1

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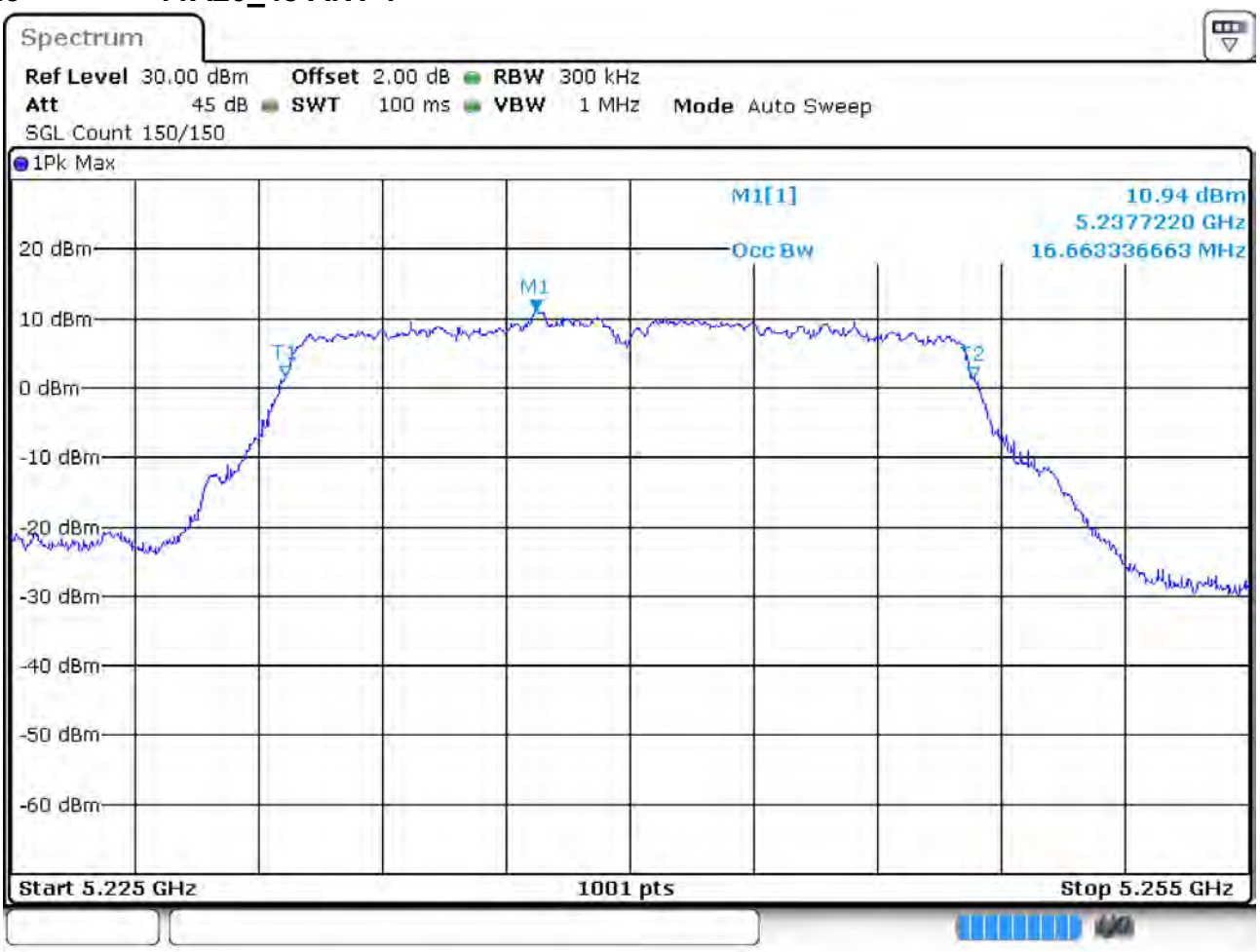
### 4.7.2.3 11A20_48 ANT 1

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### 4.7.2.4 11A20_52 ANT 1

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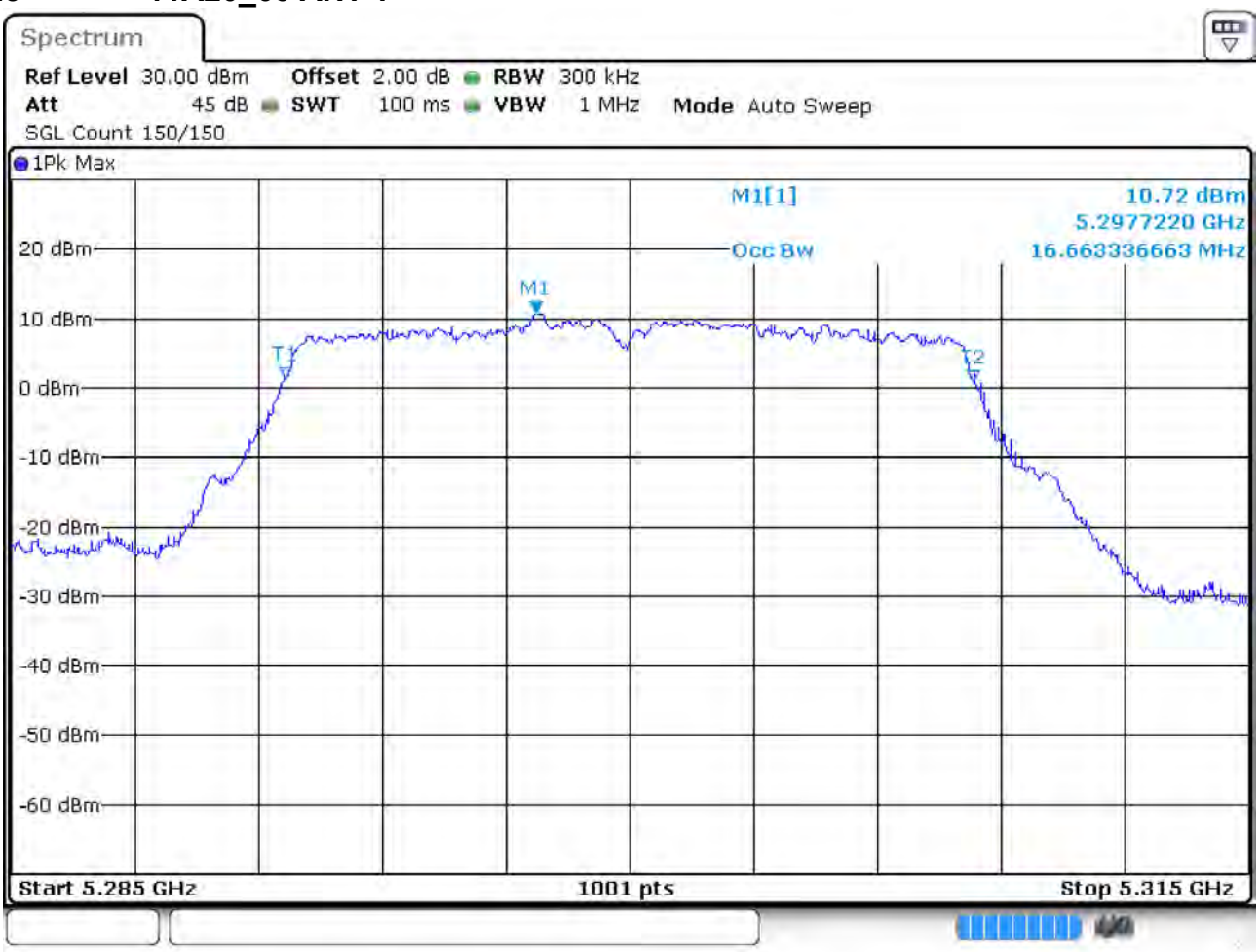
### 4.7.2.5 11A20_60 ANT 1

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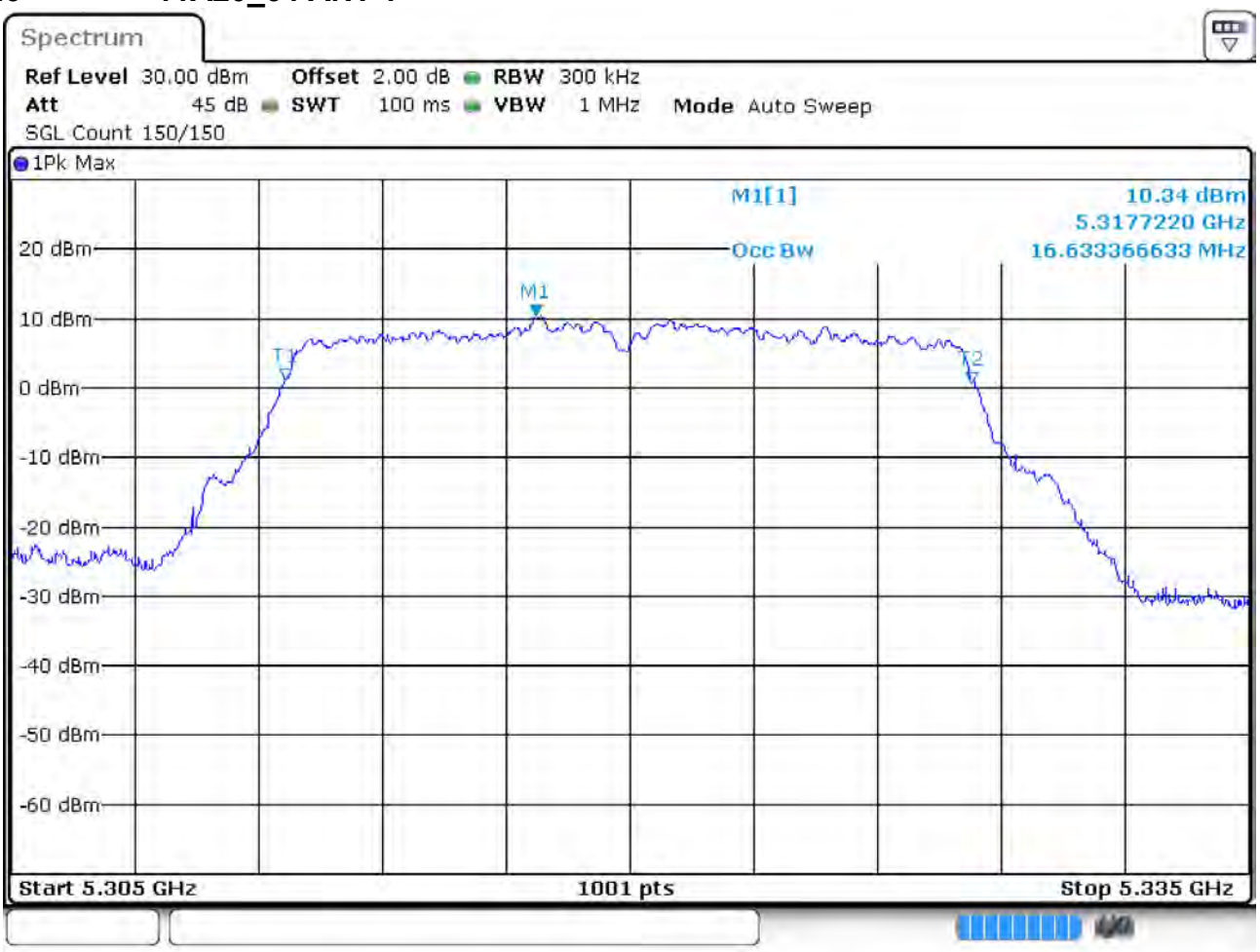


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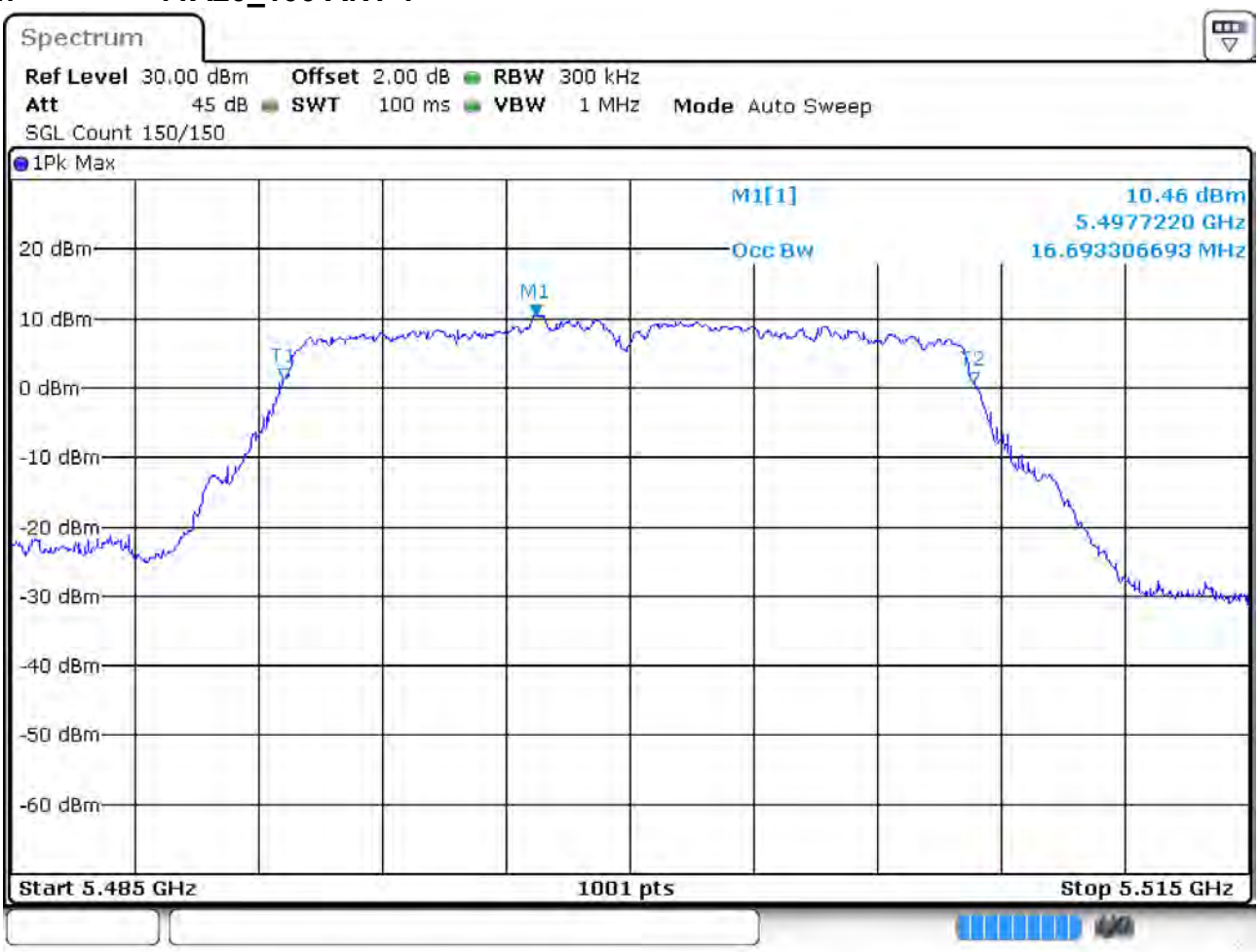


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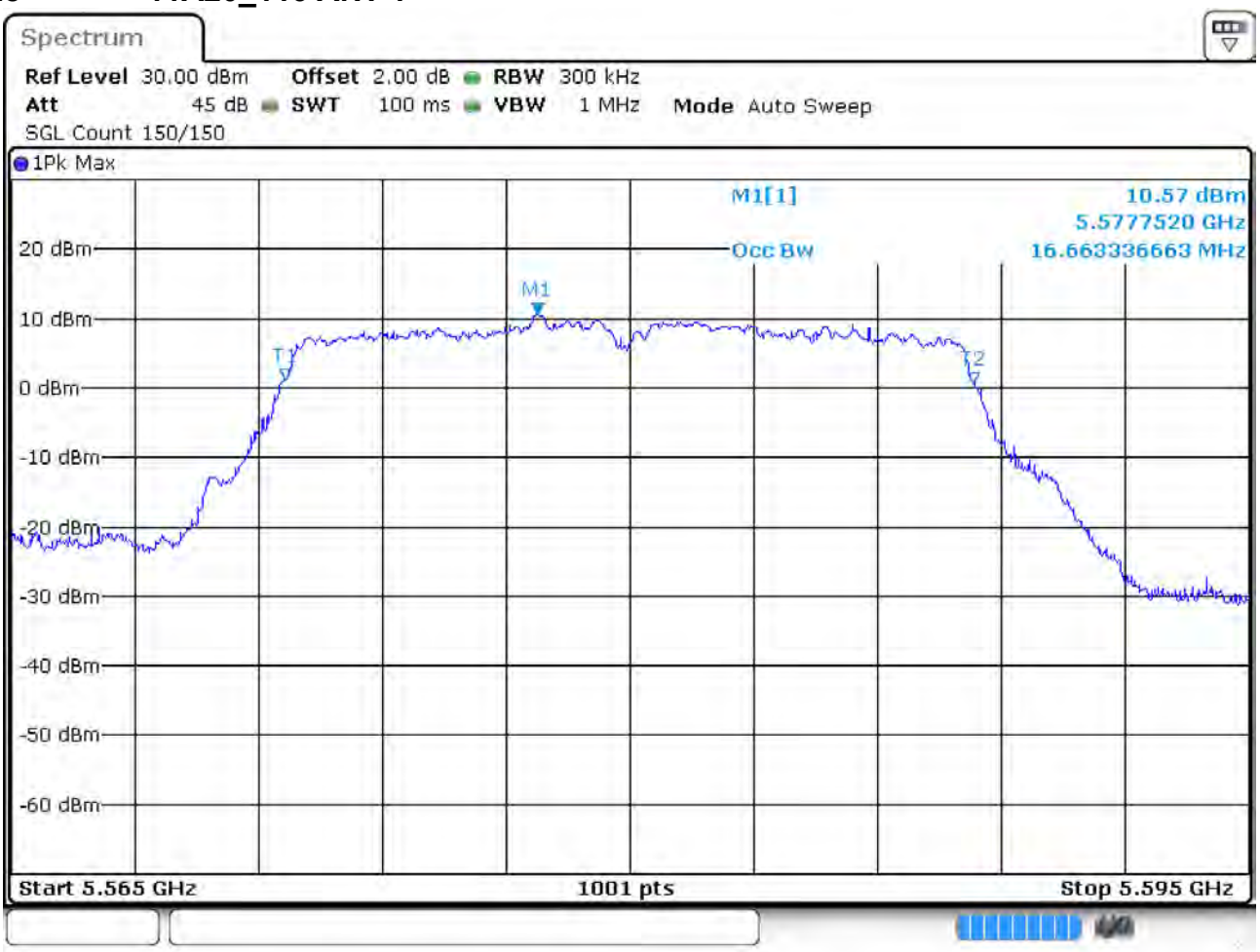


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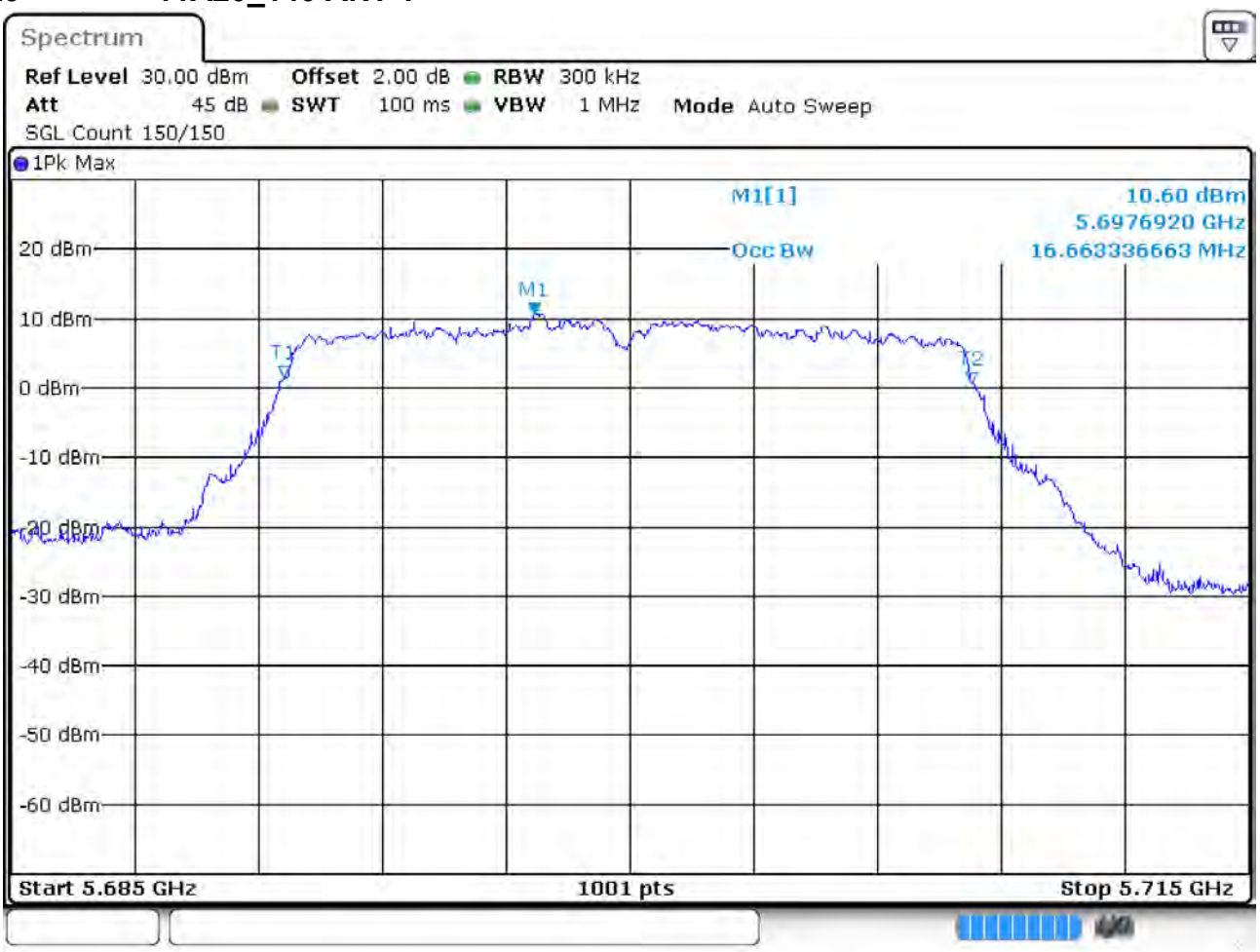


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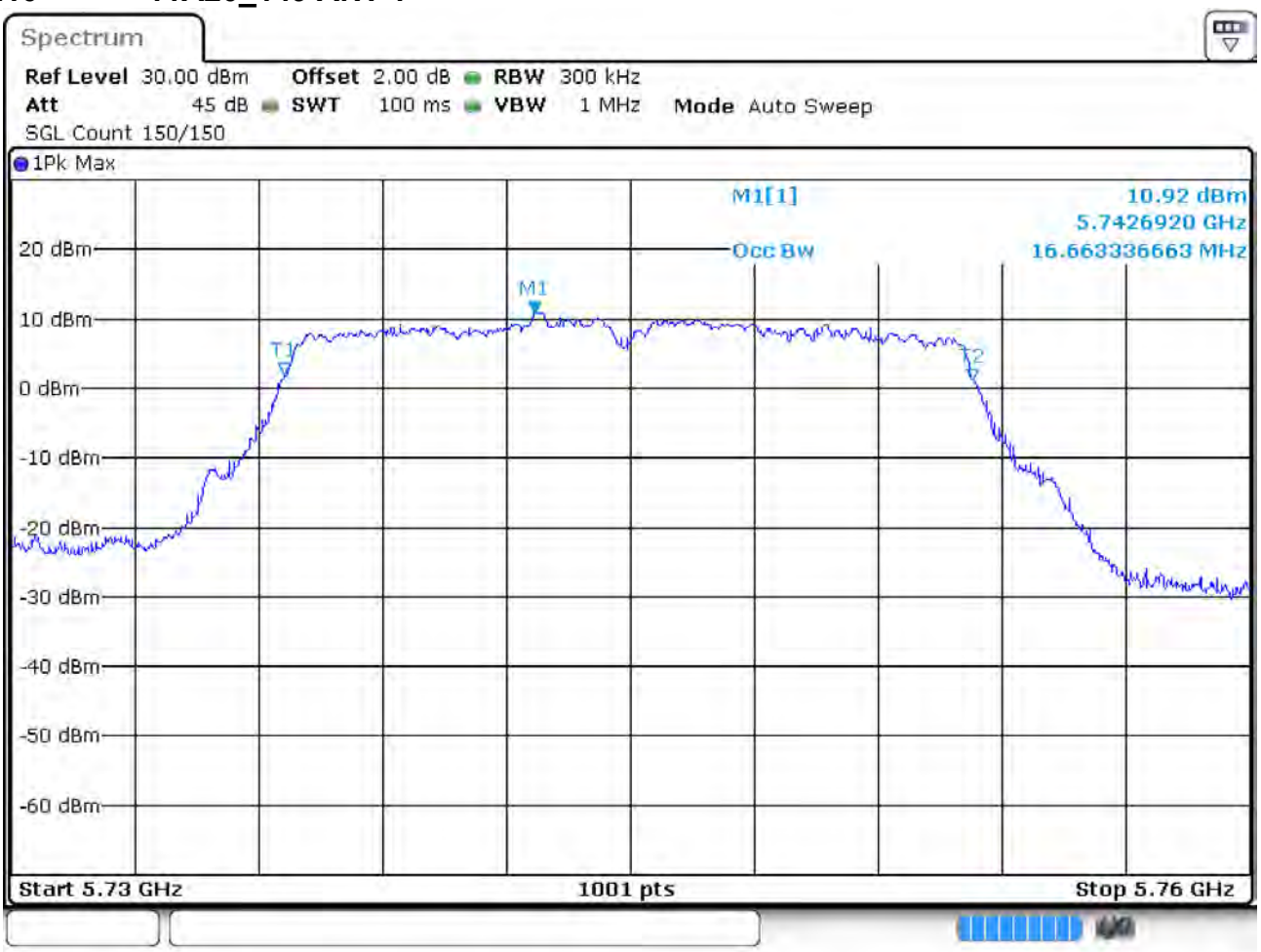


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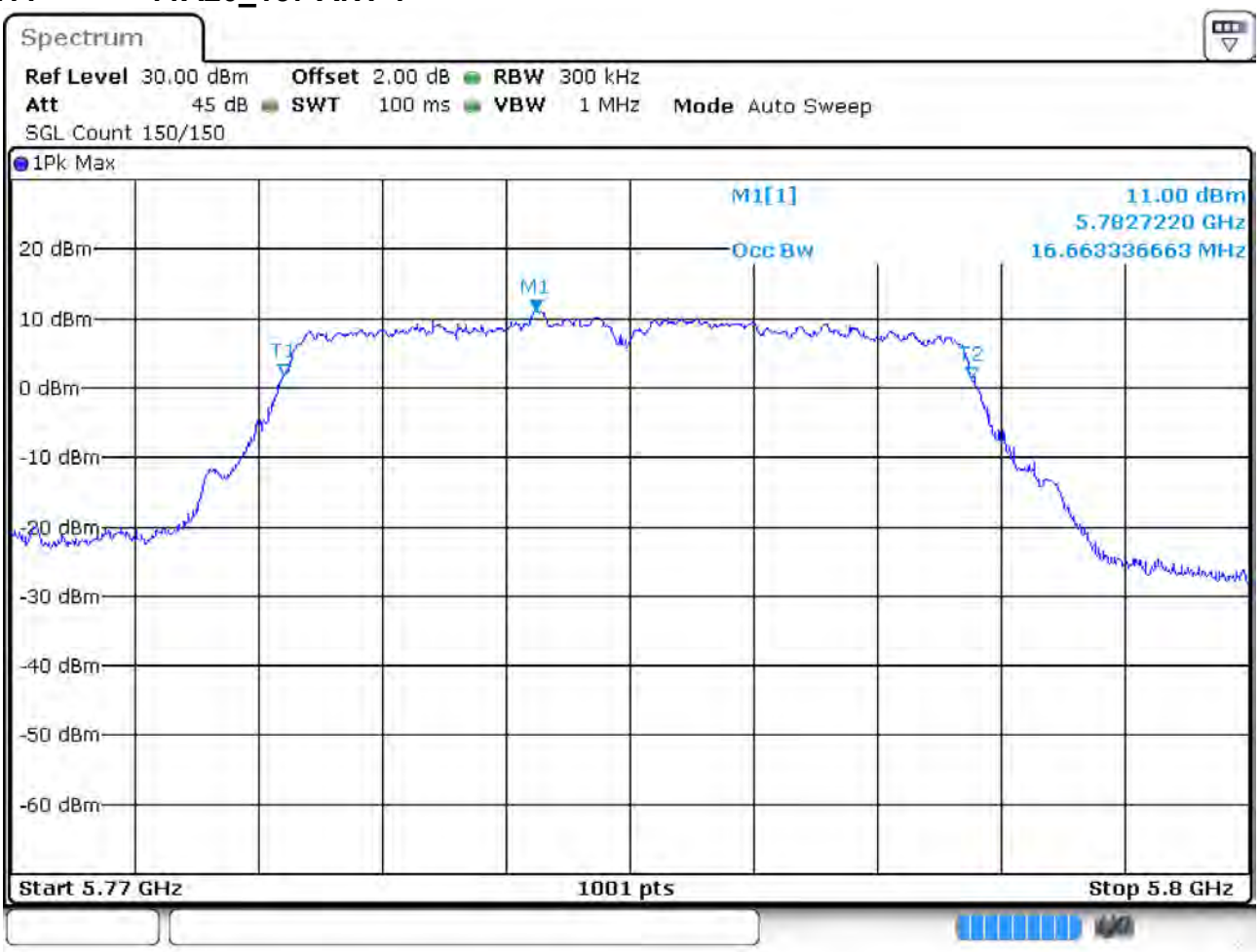


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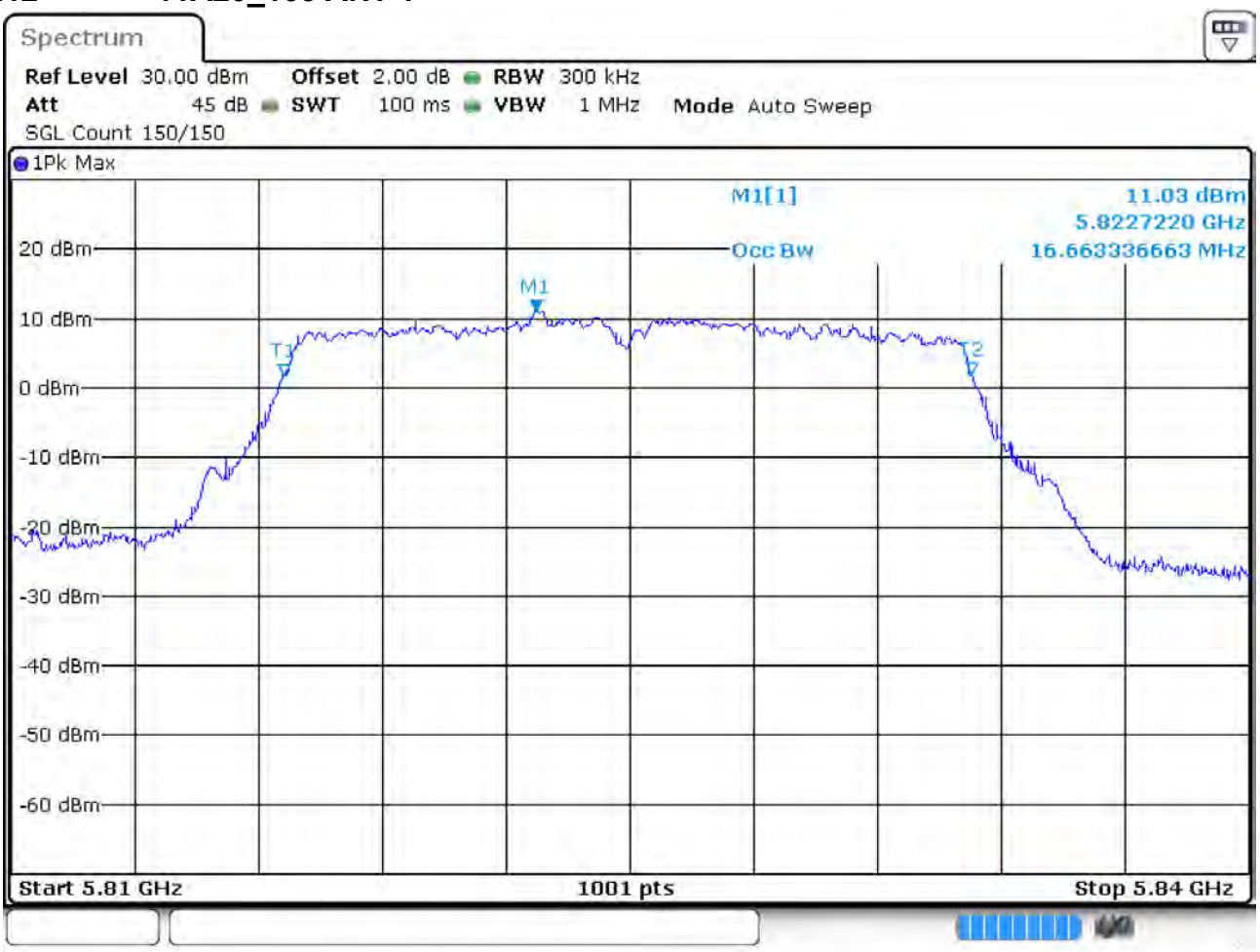


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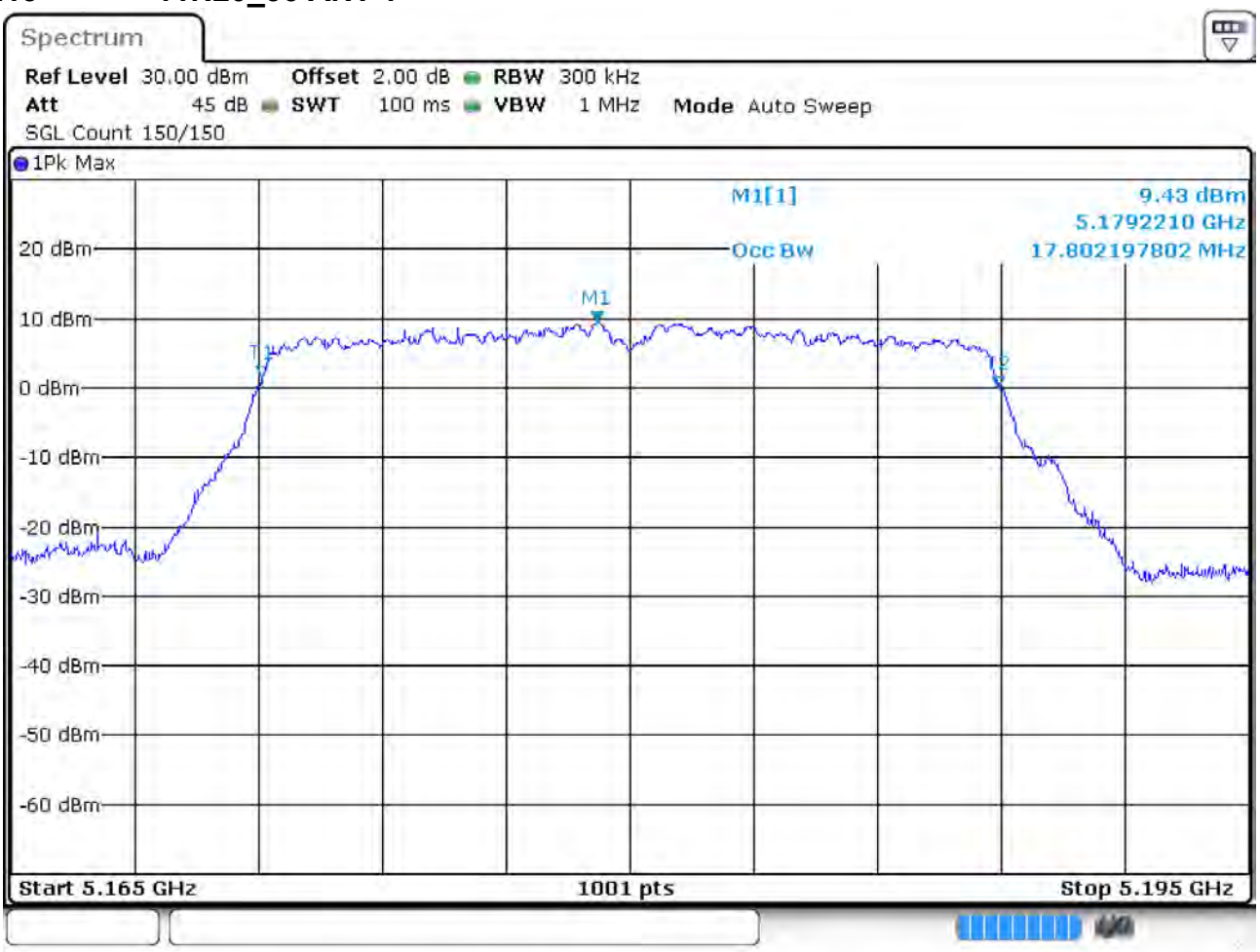


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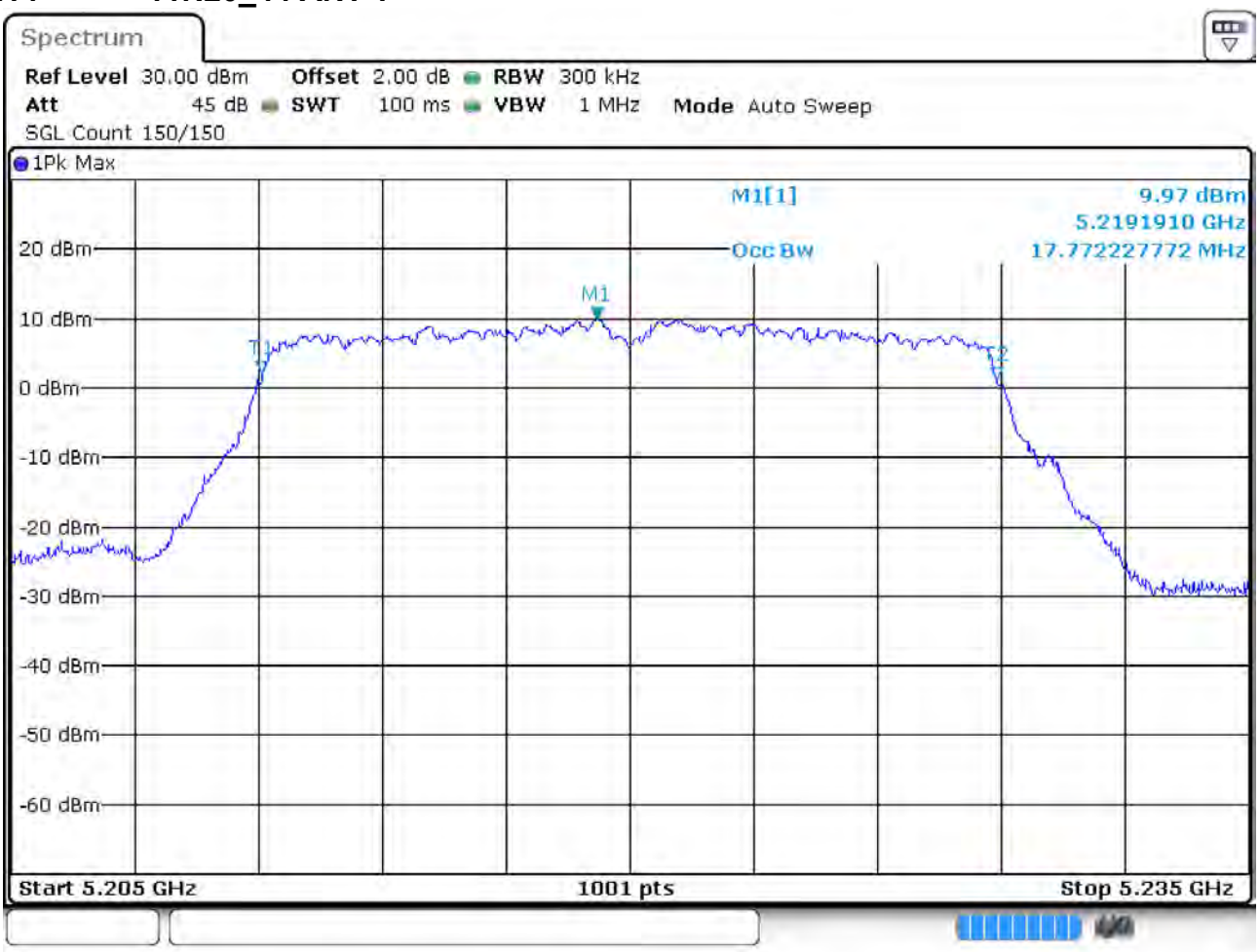


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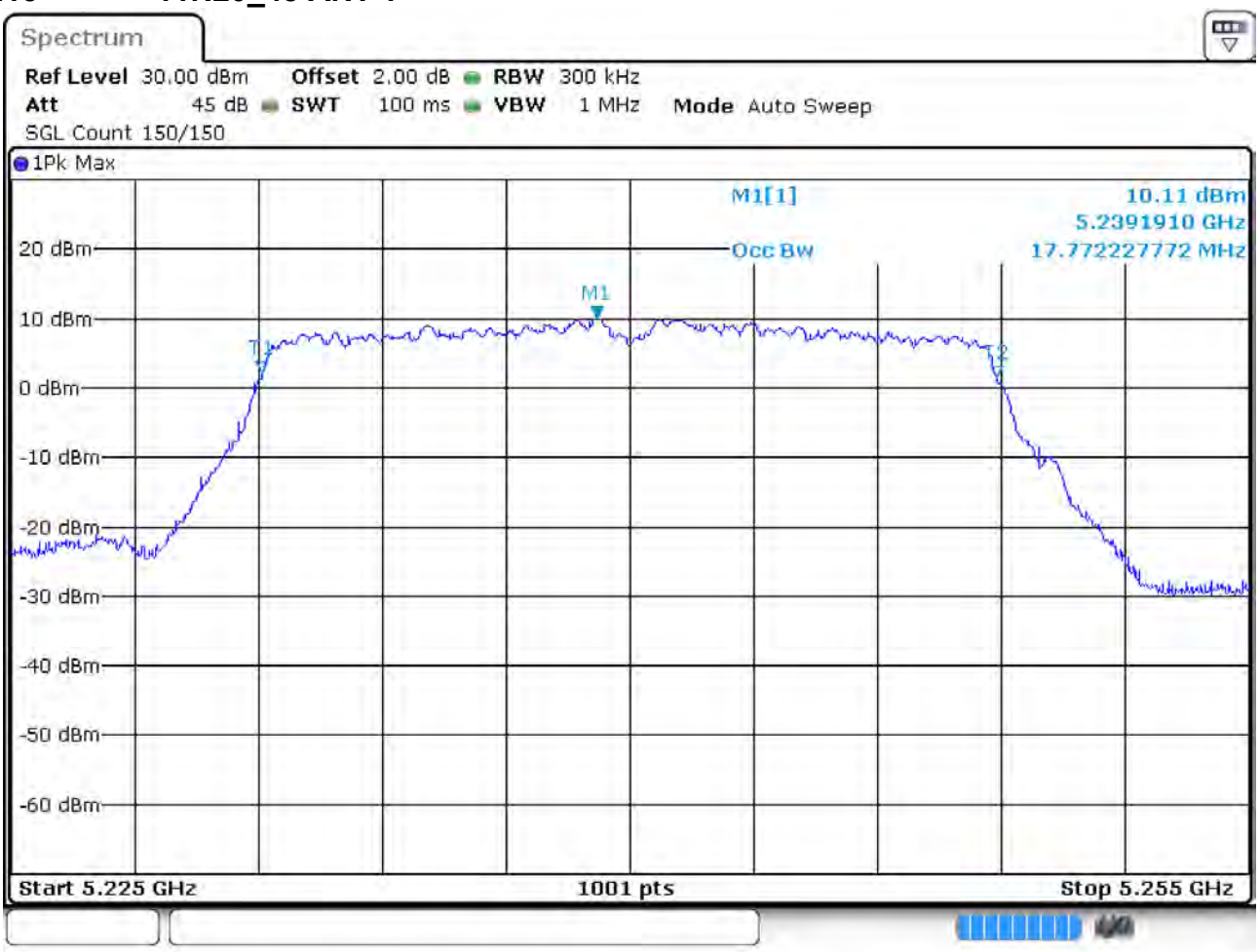


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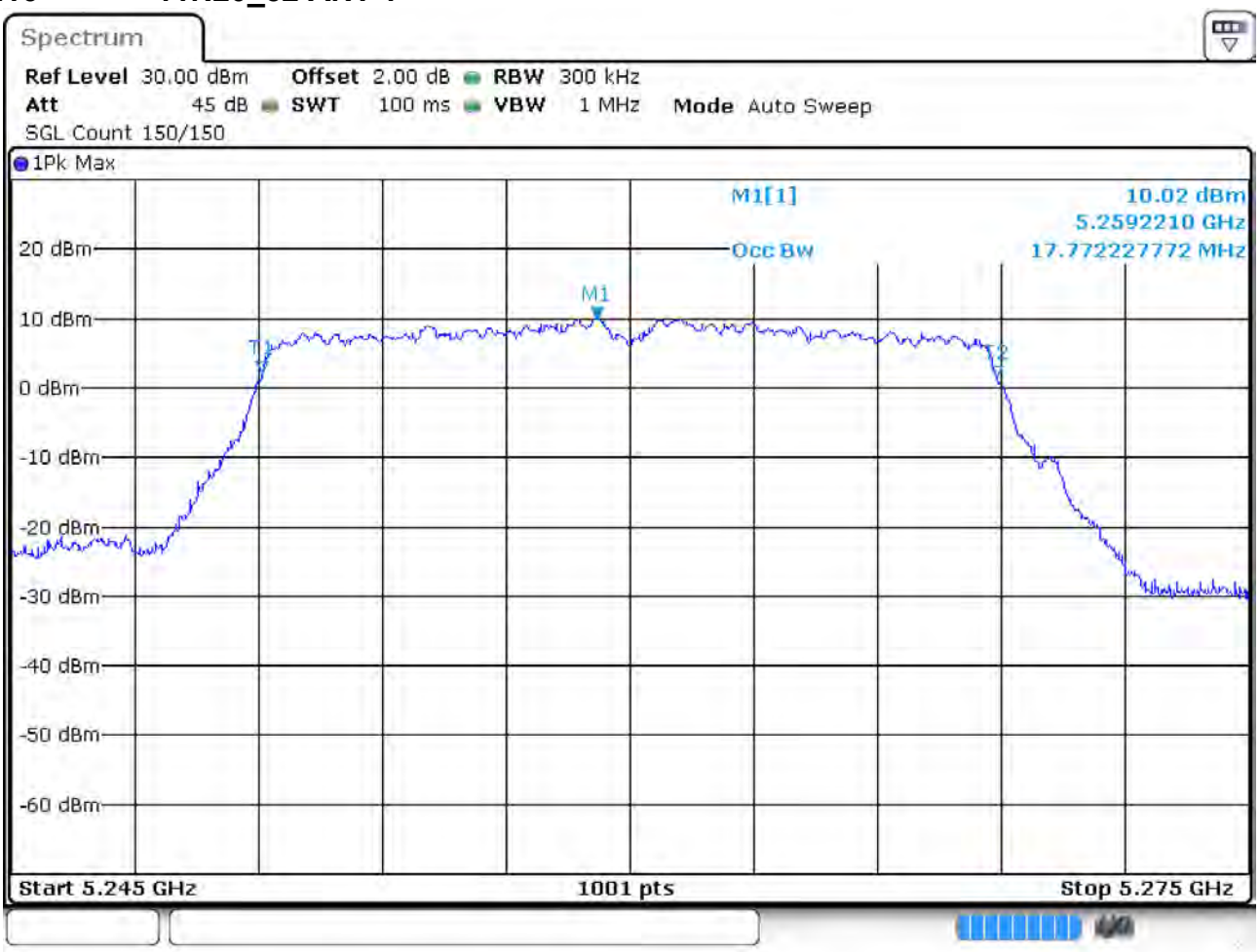


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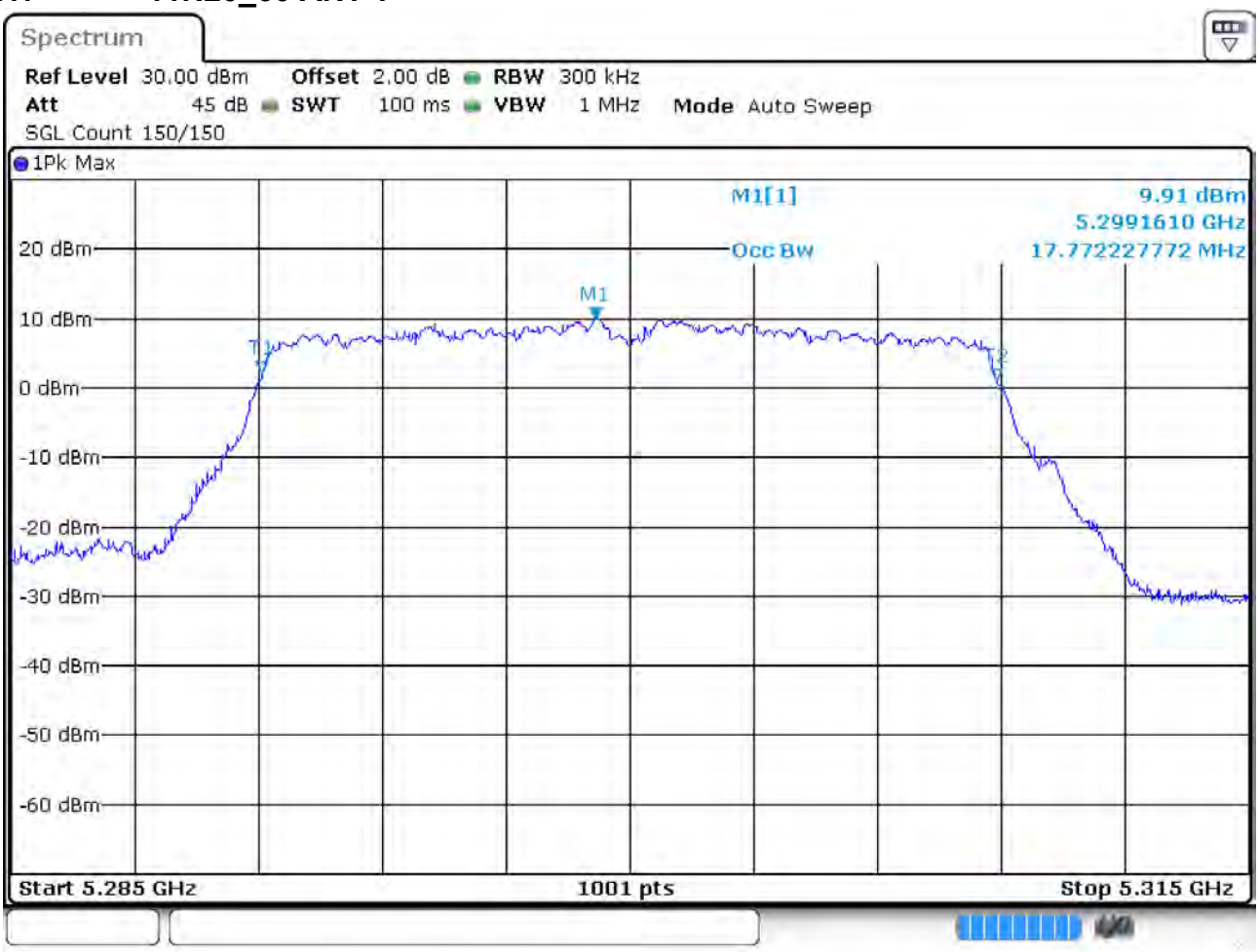


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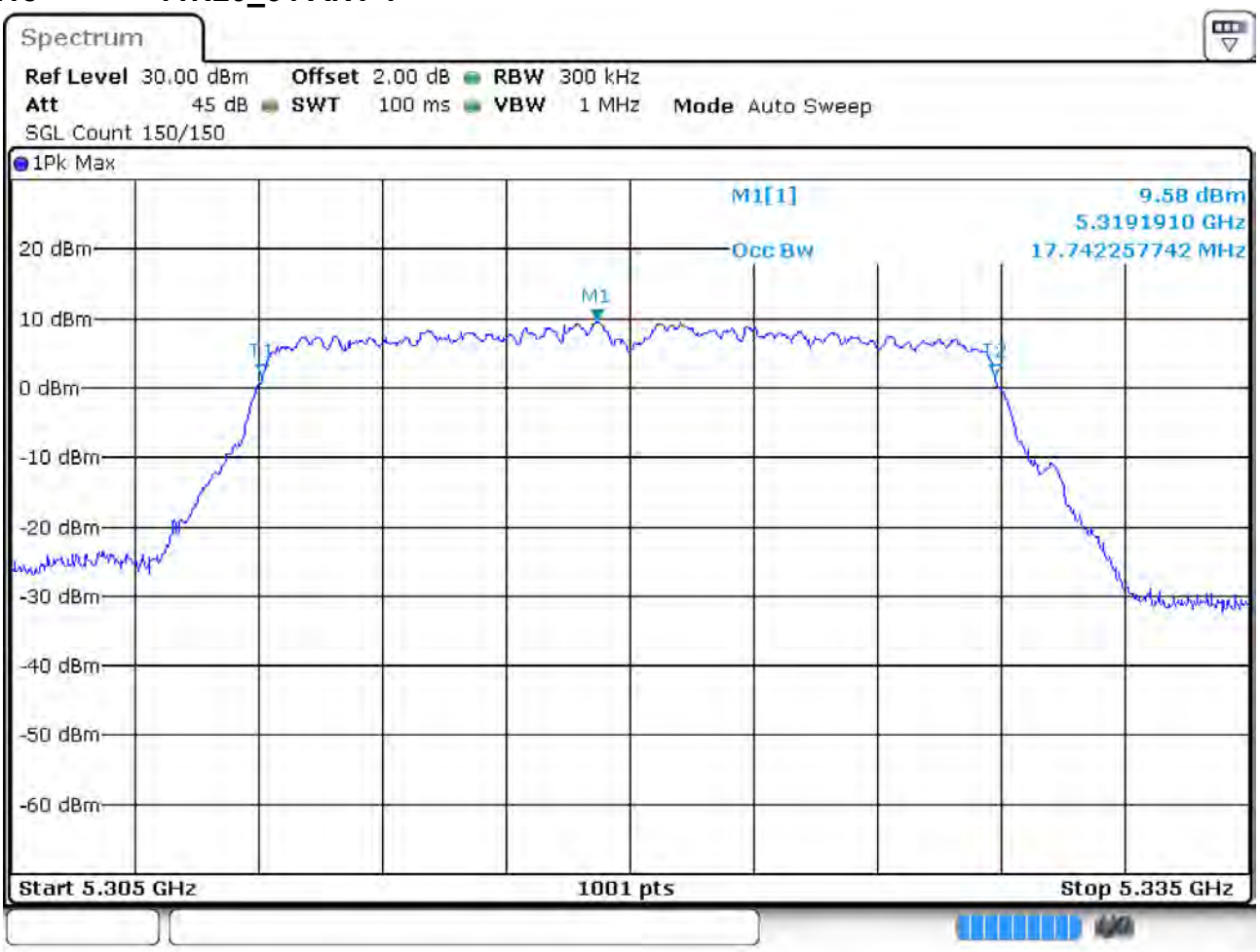


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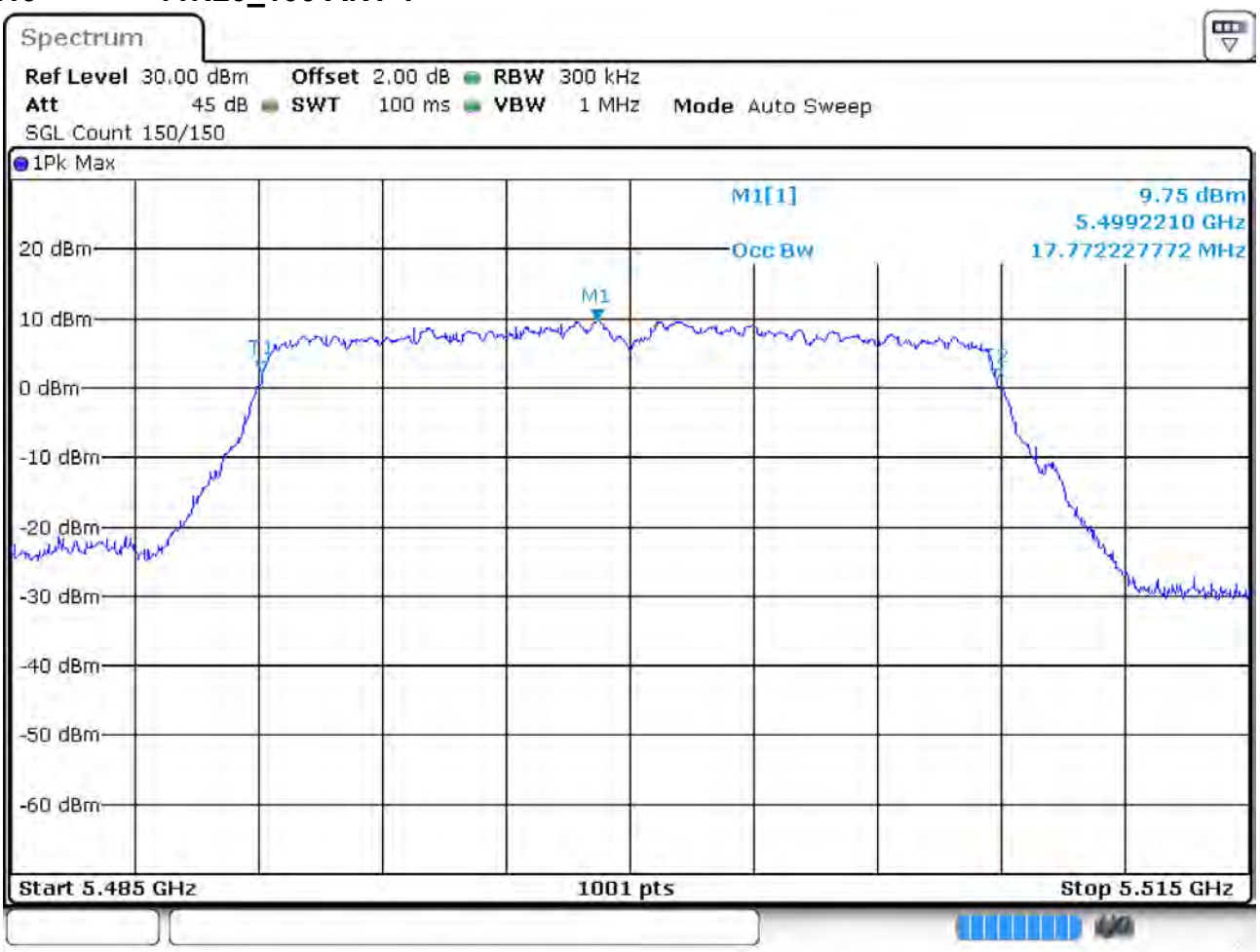


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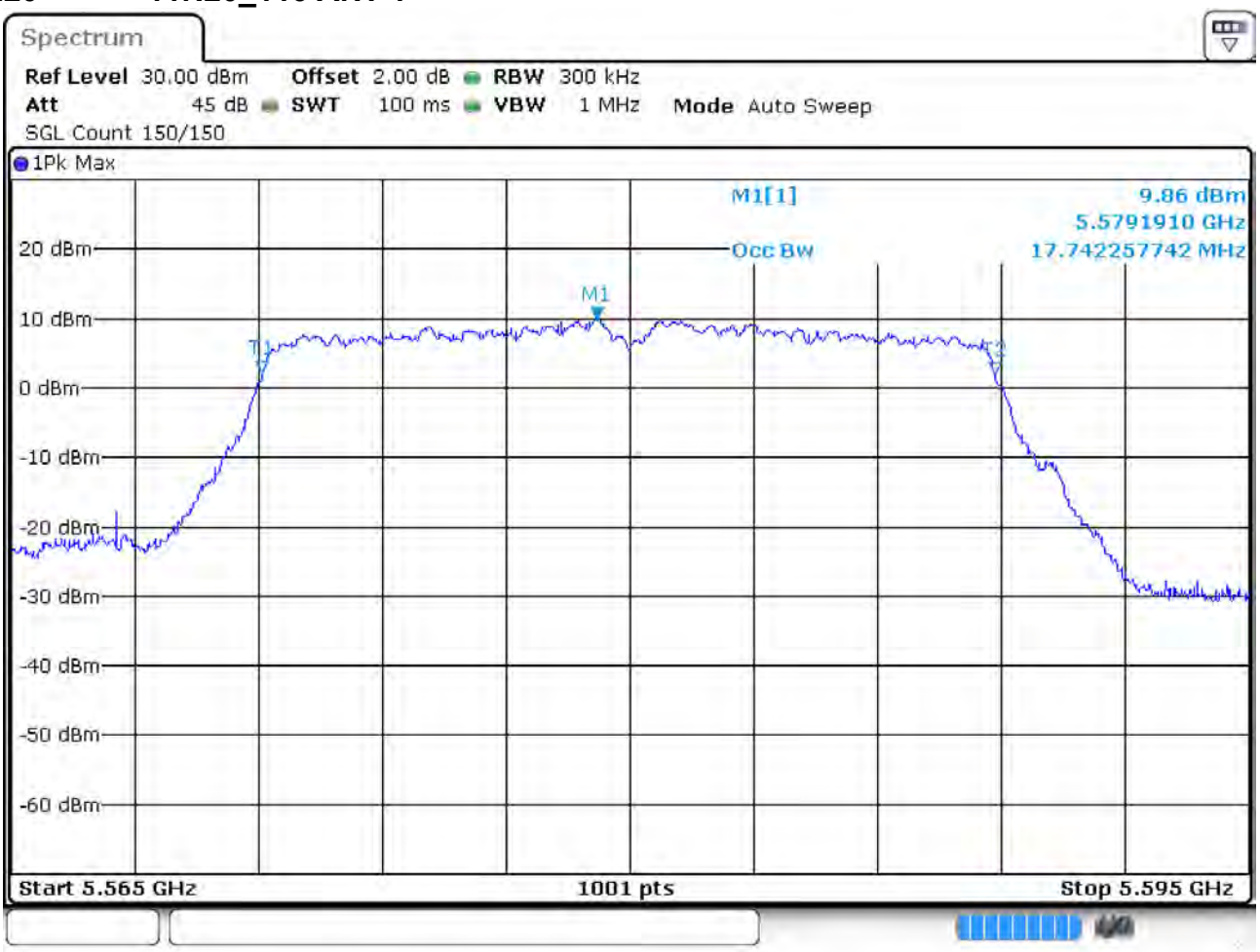


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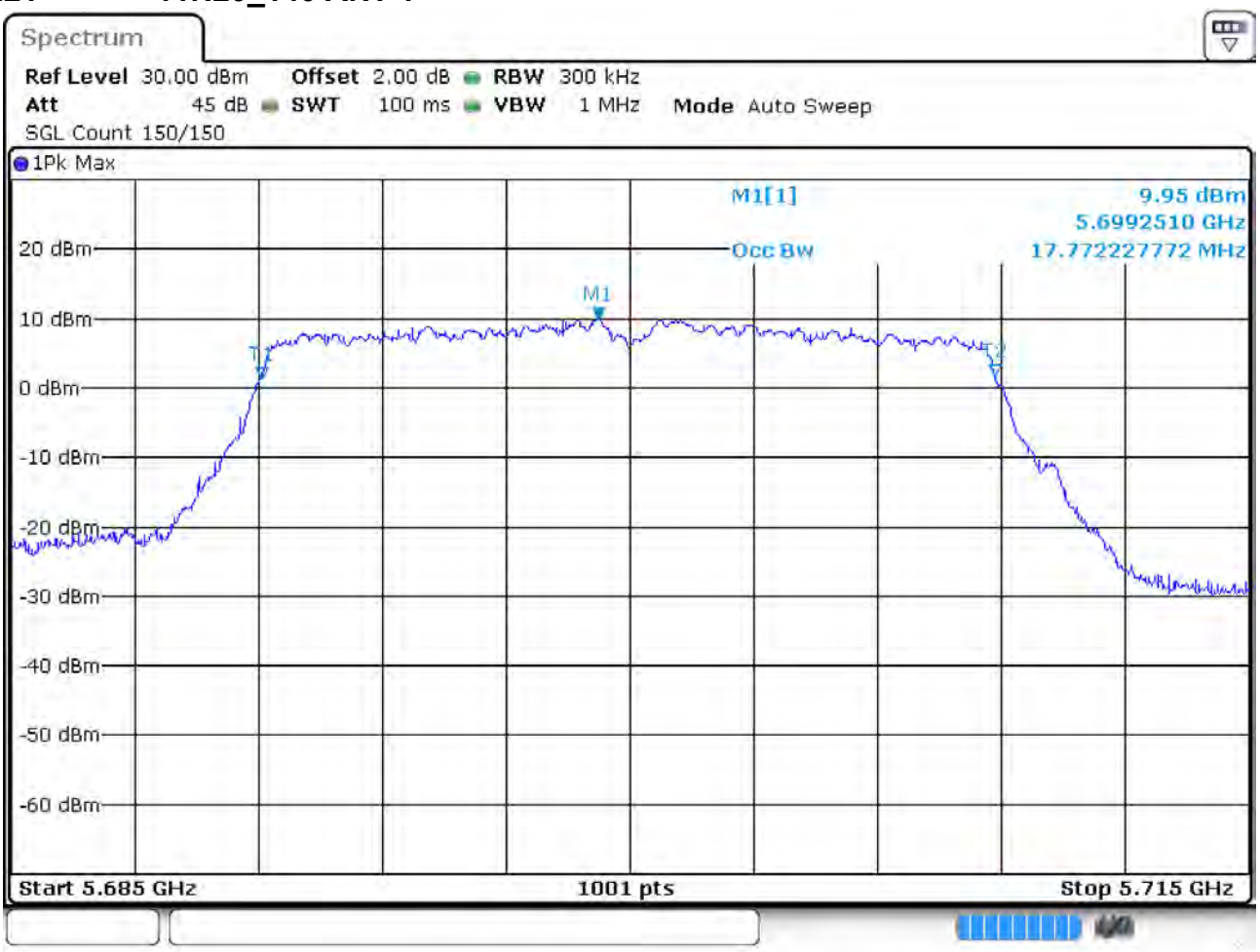


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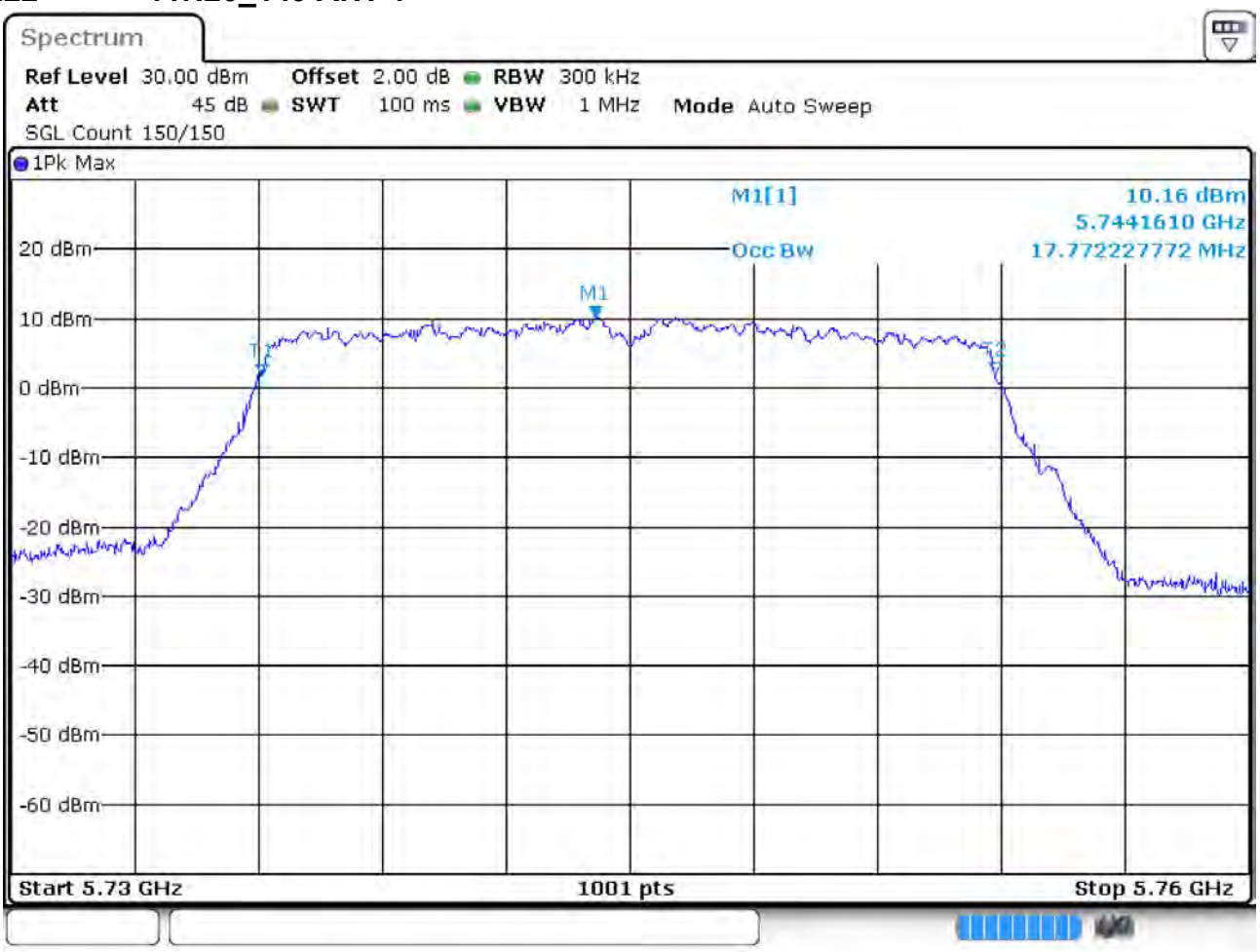


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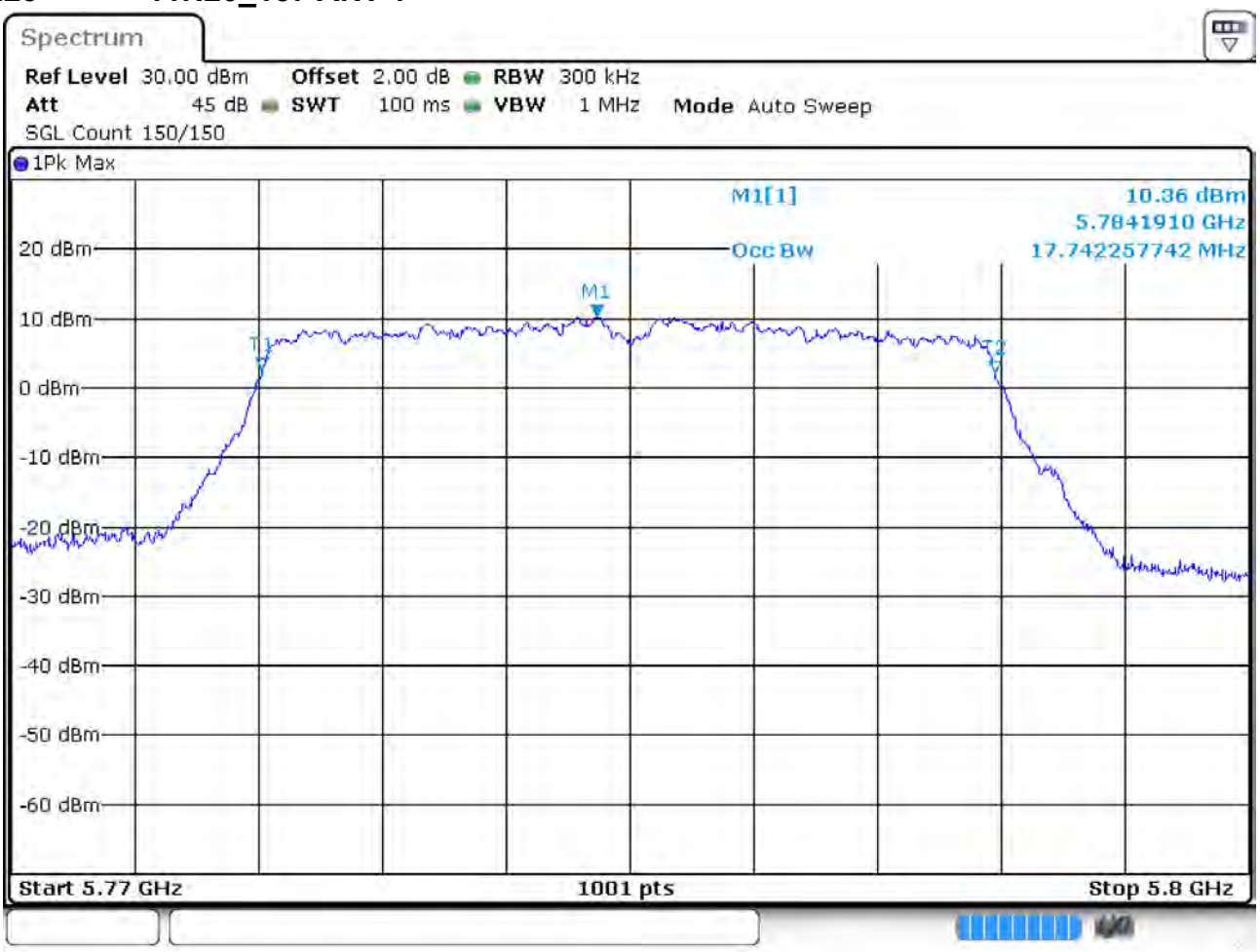


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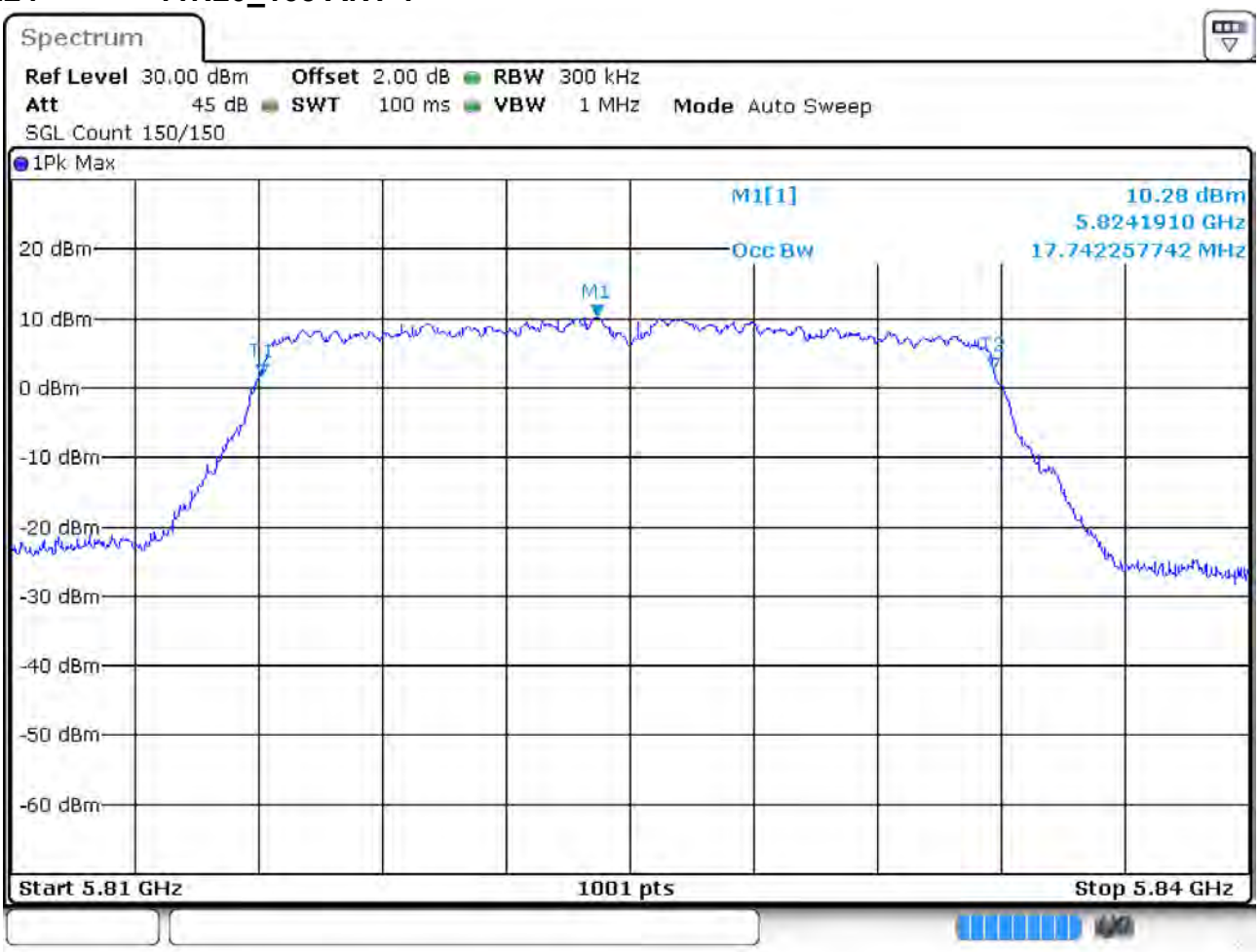


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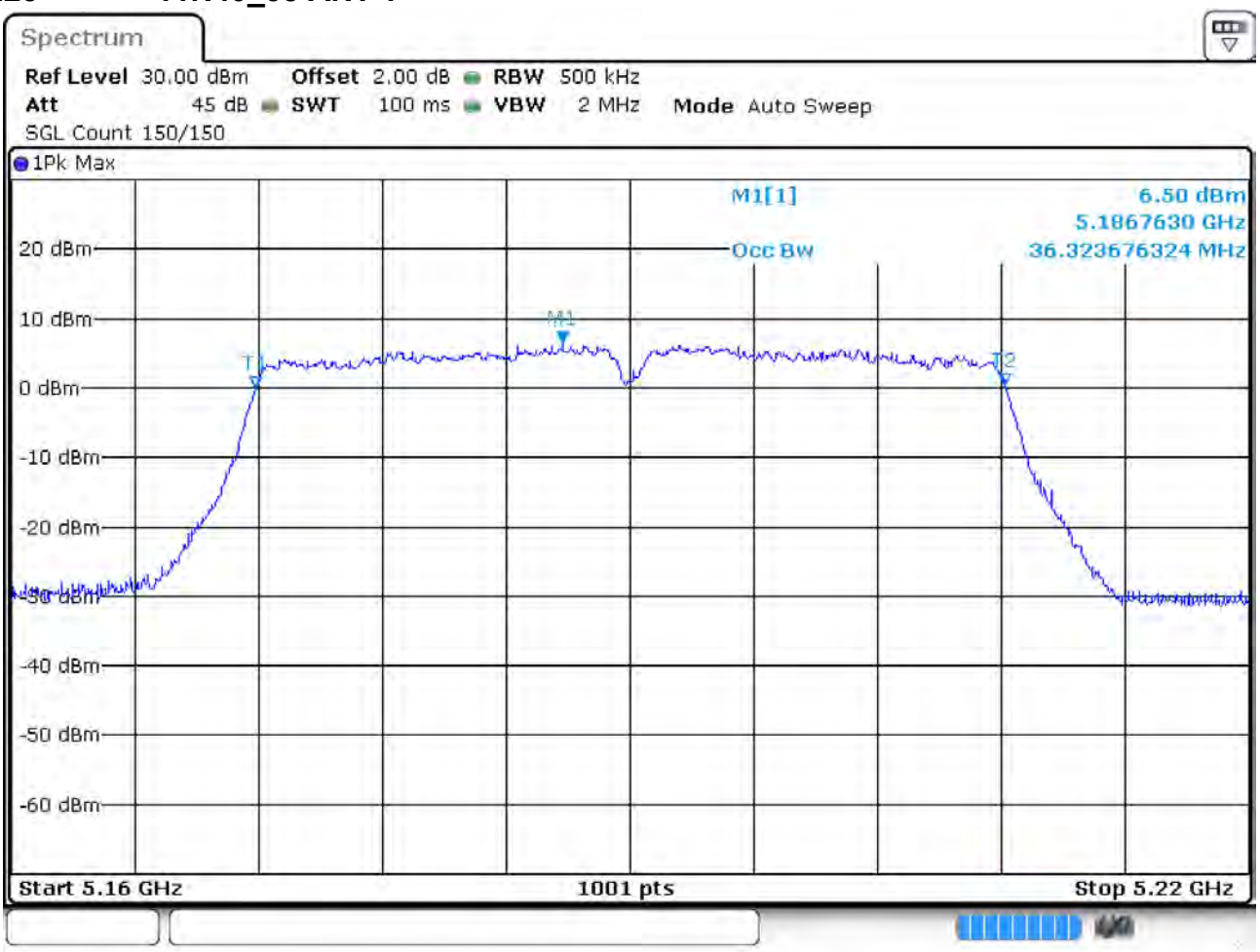


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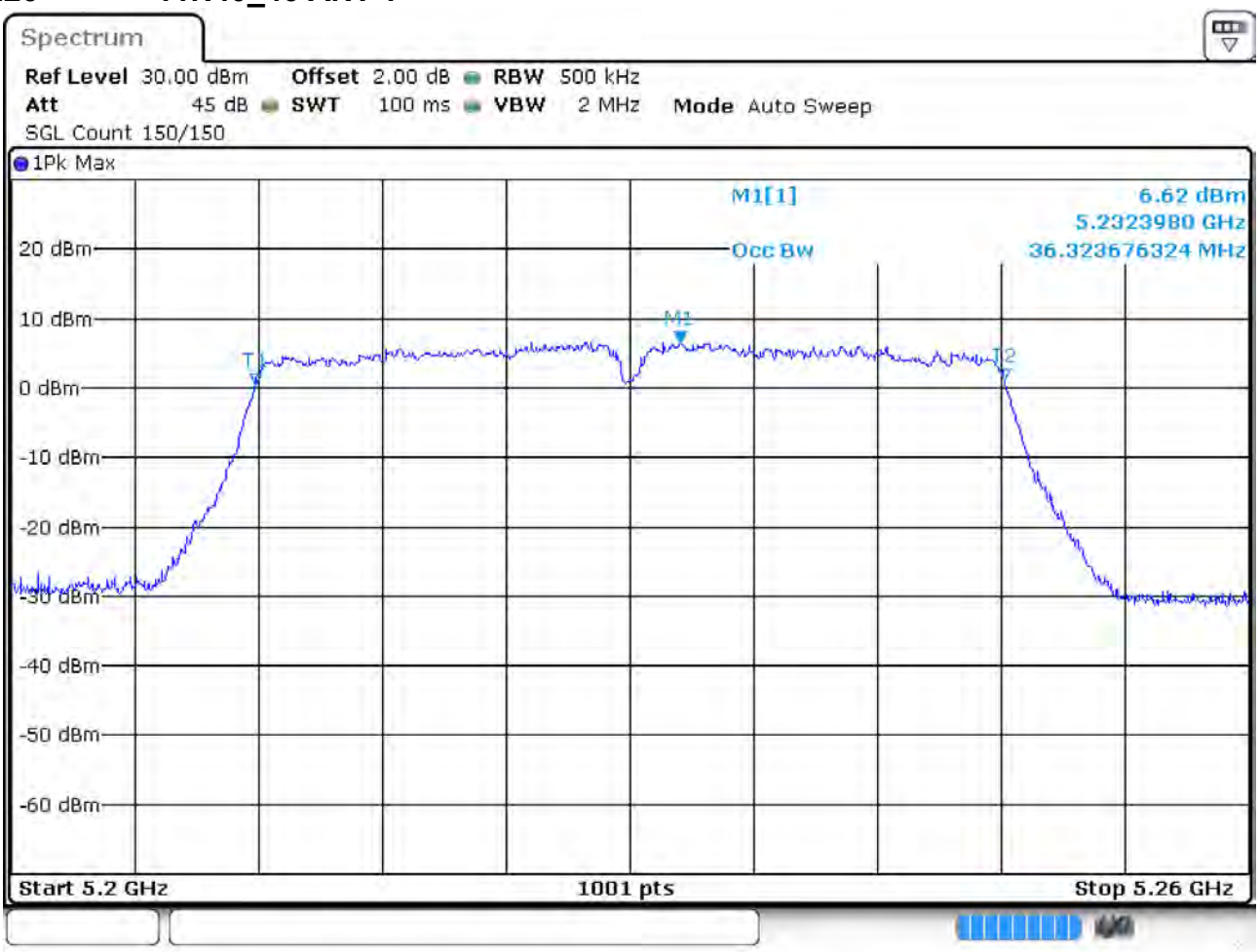


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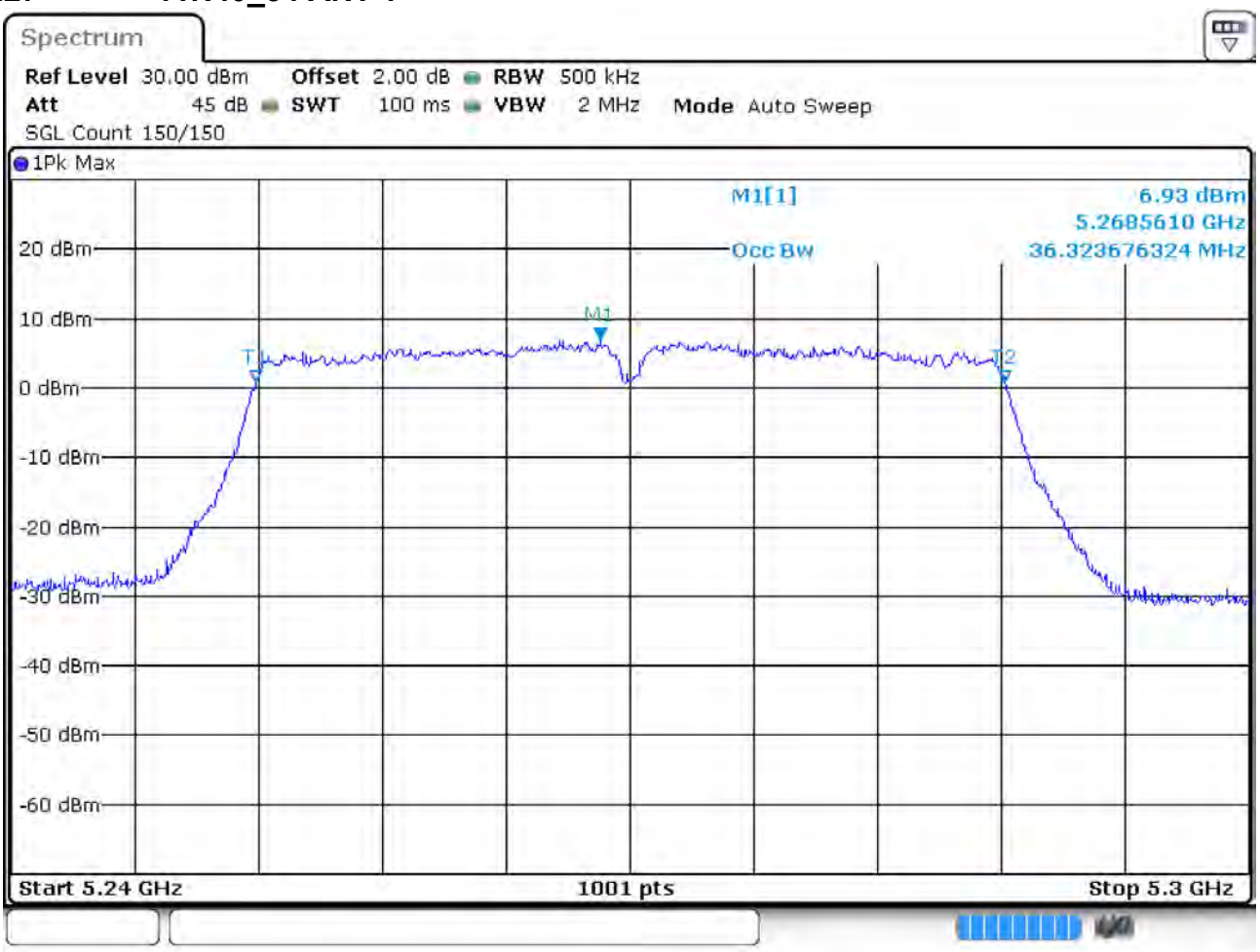


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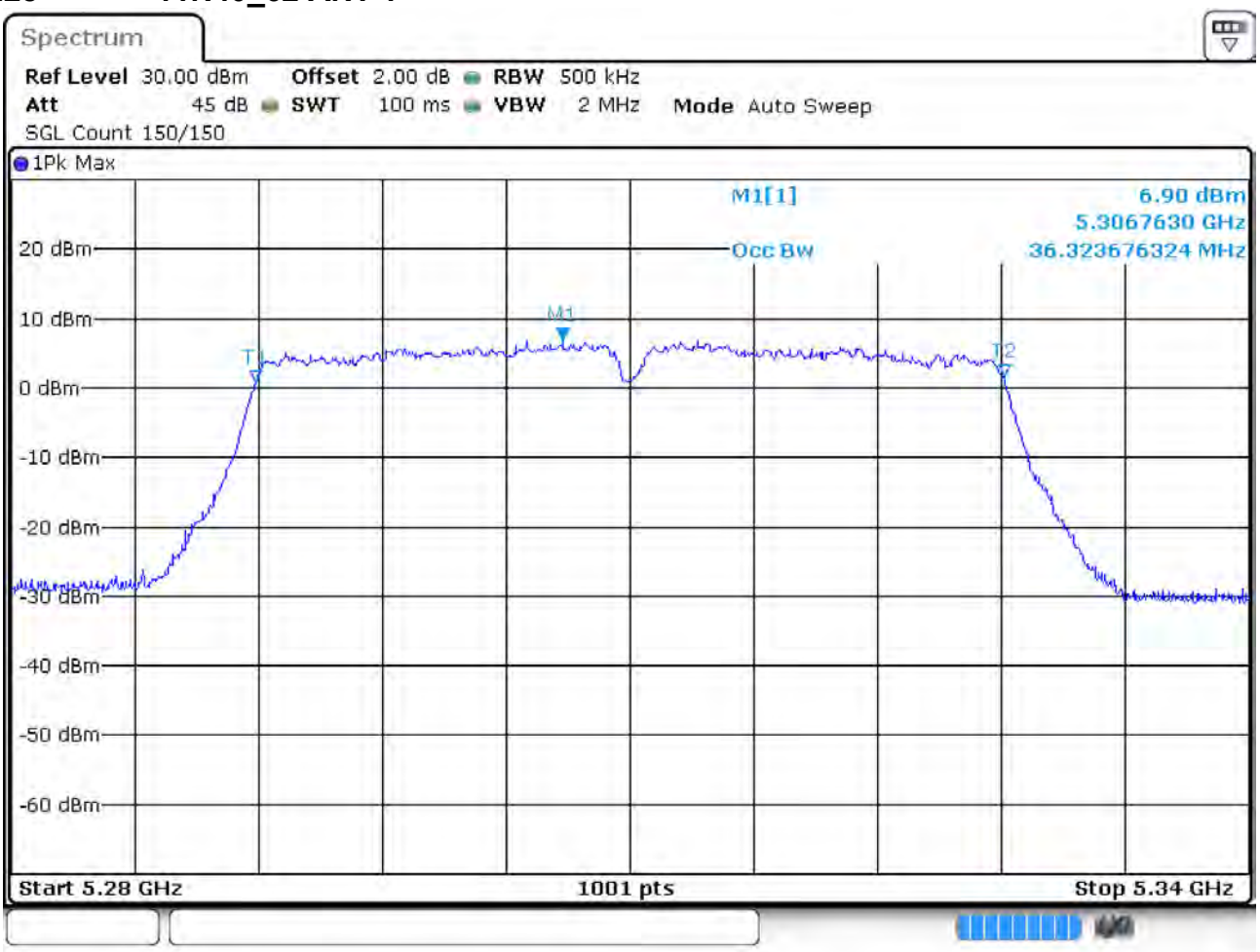


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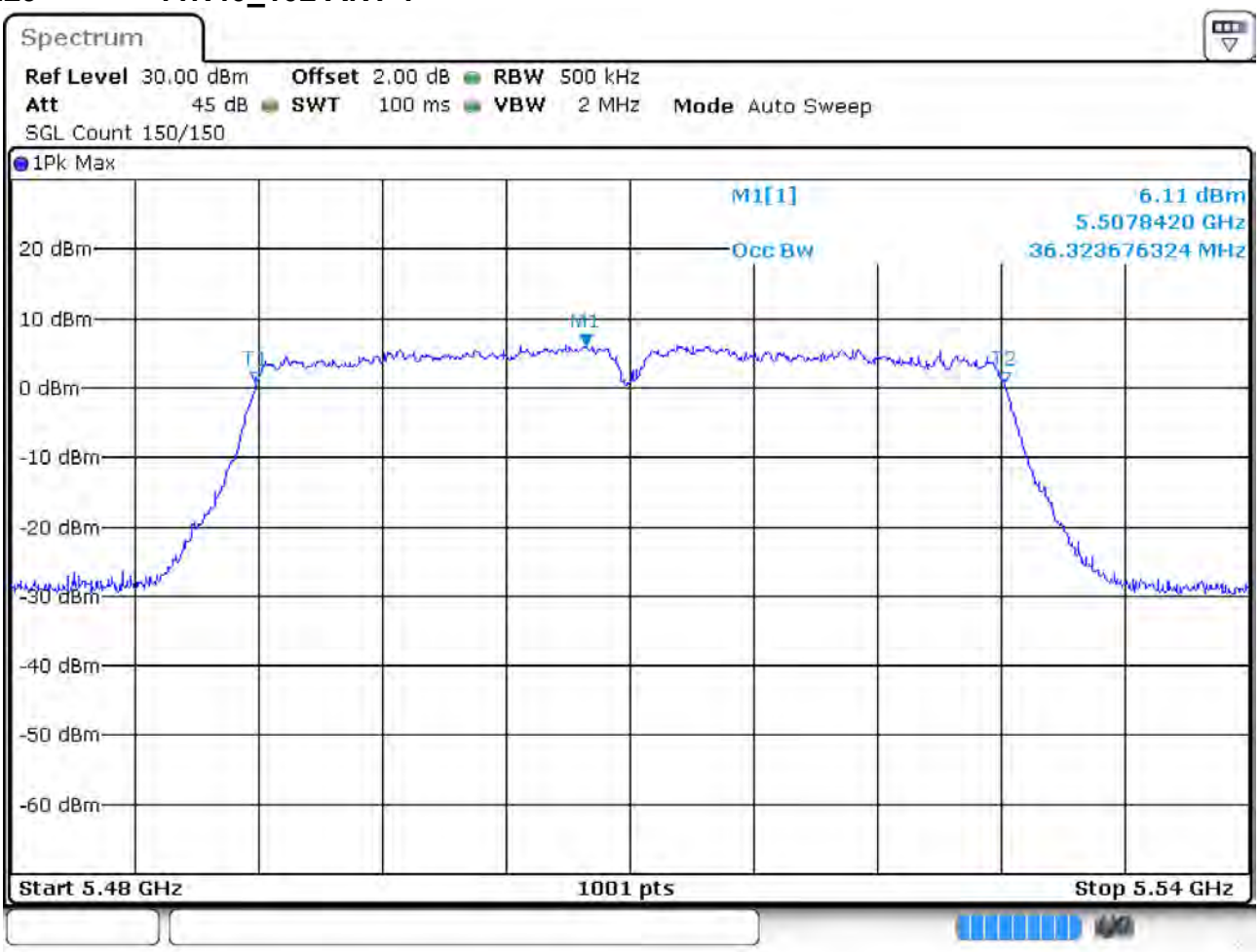


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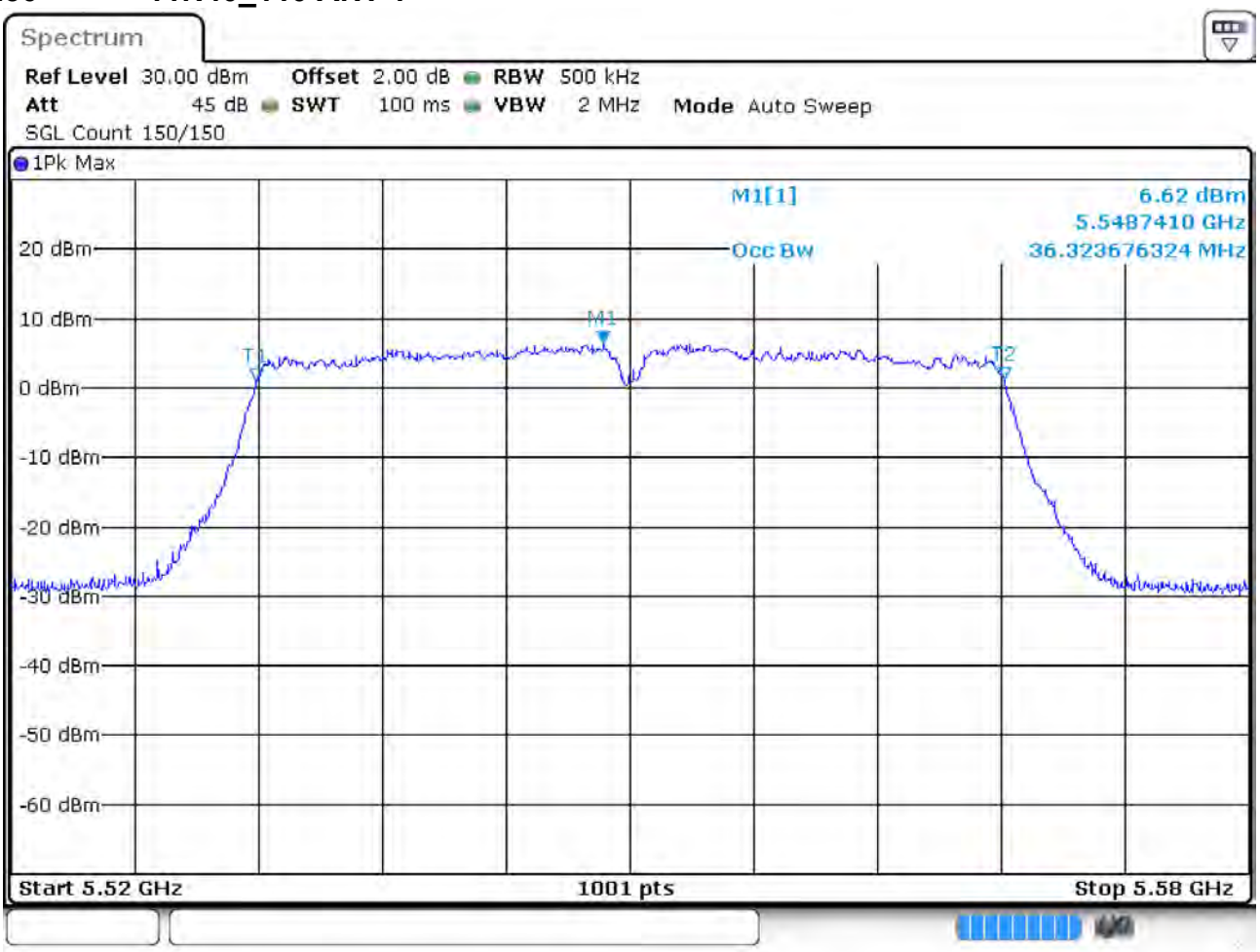


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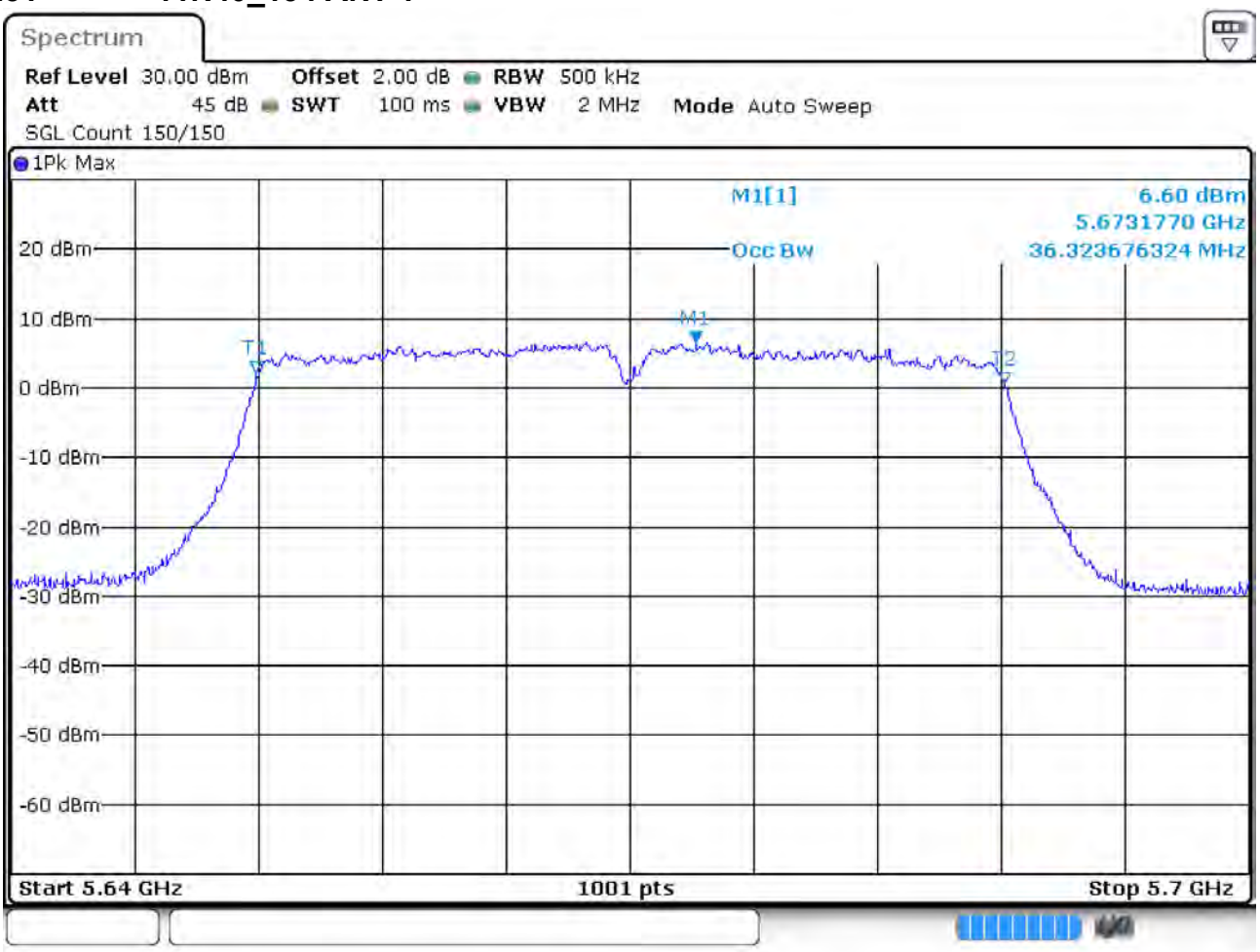


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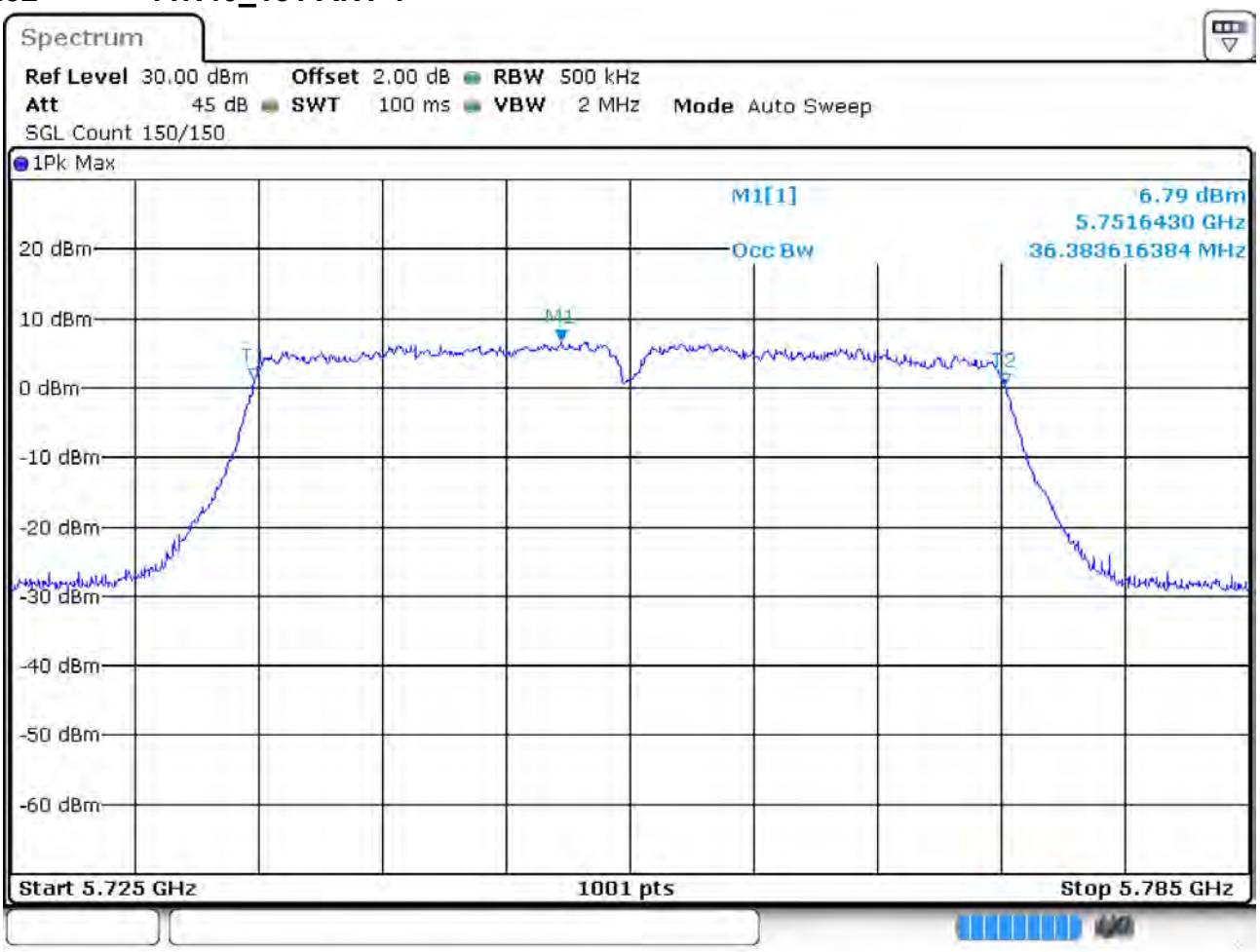
### 4.7.2.32 11N40_151 ANT 1

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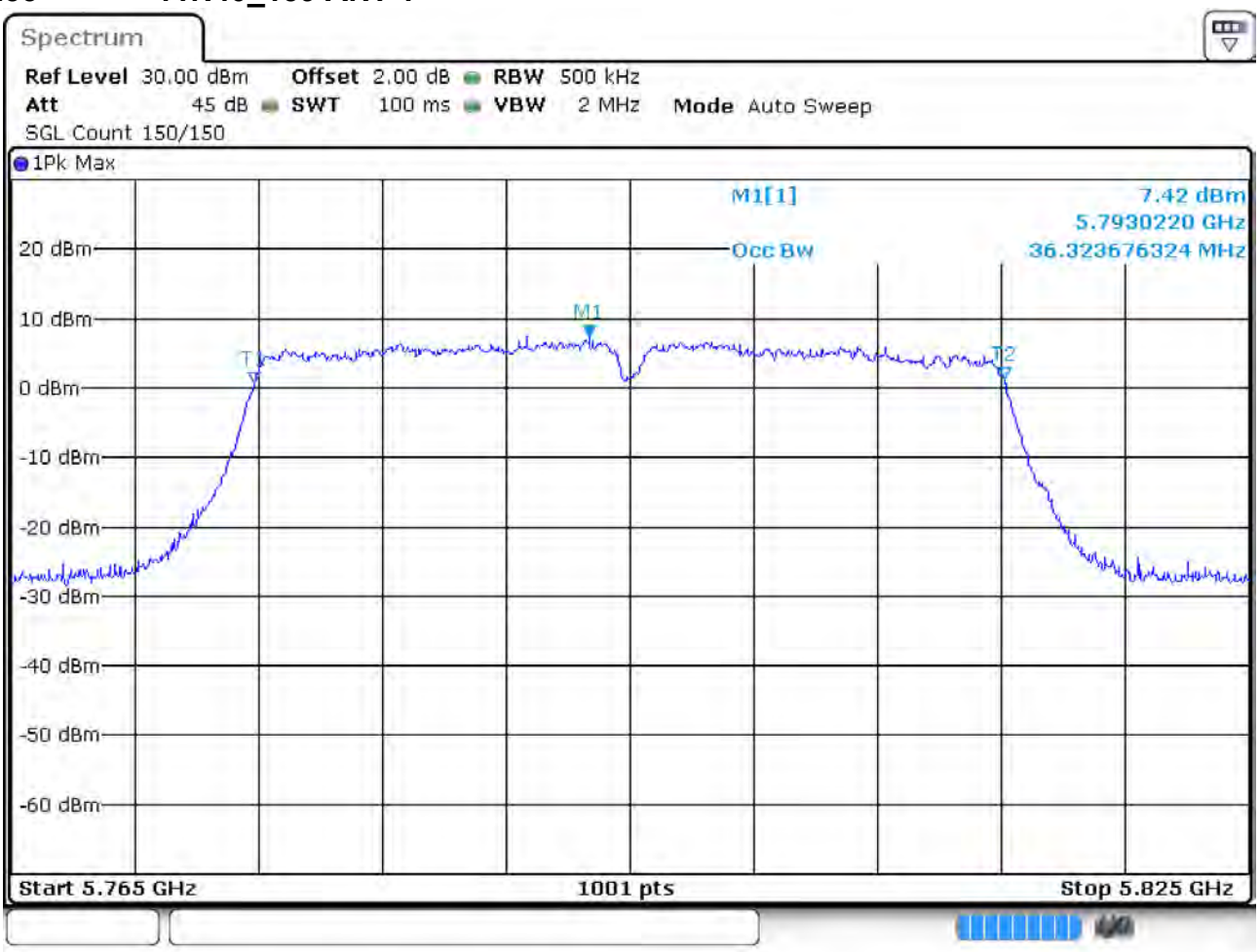


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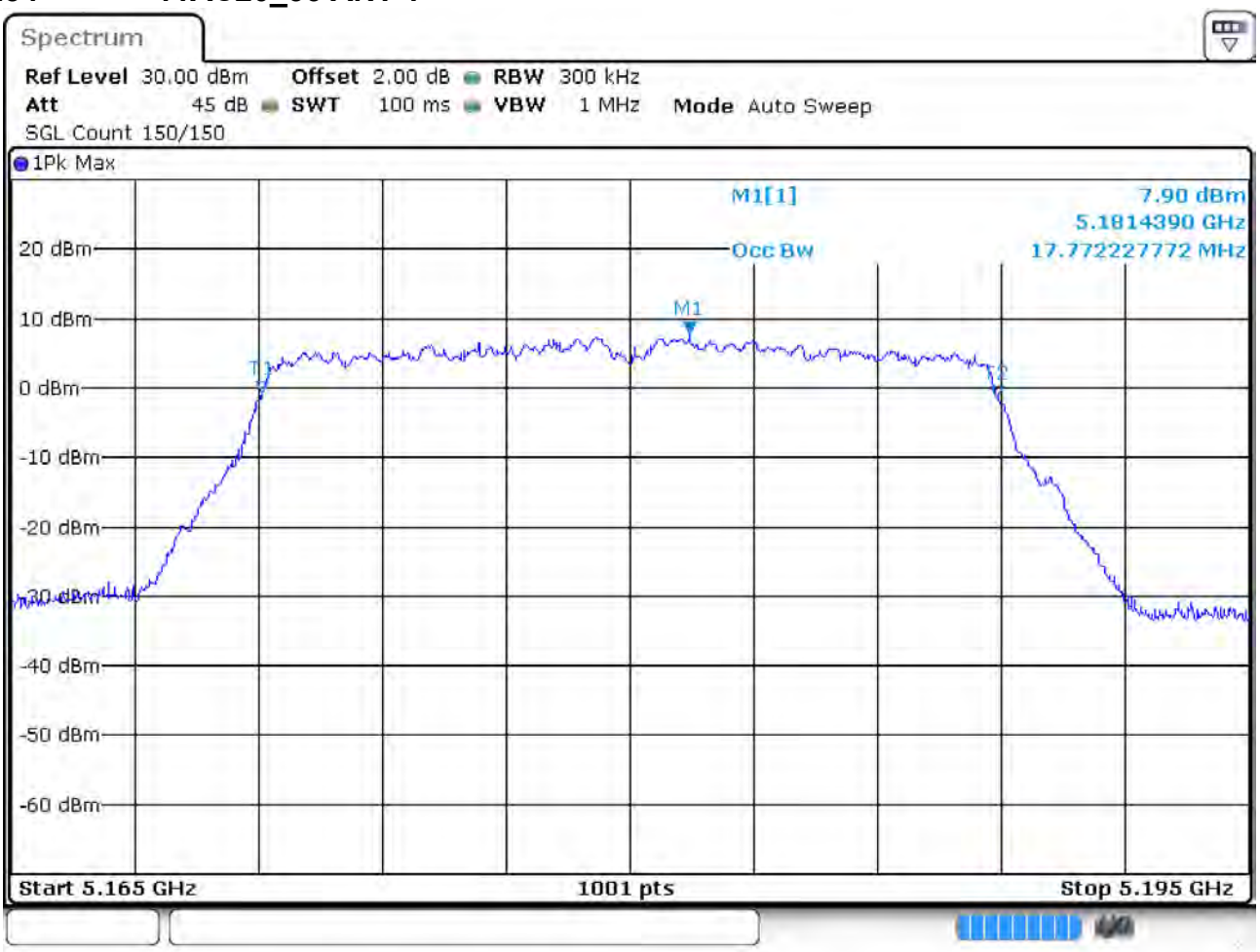


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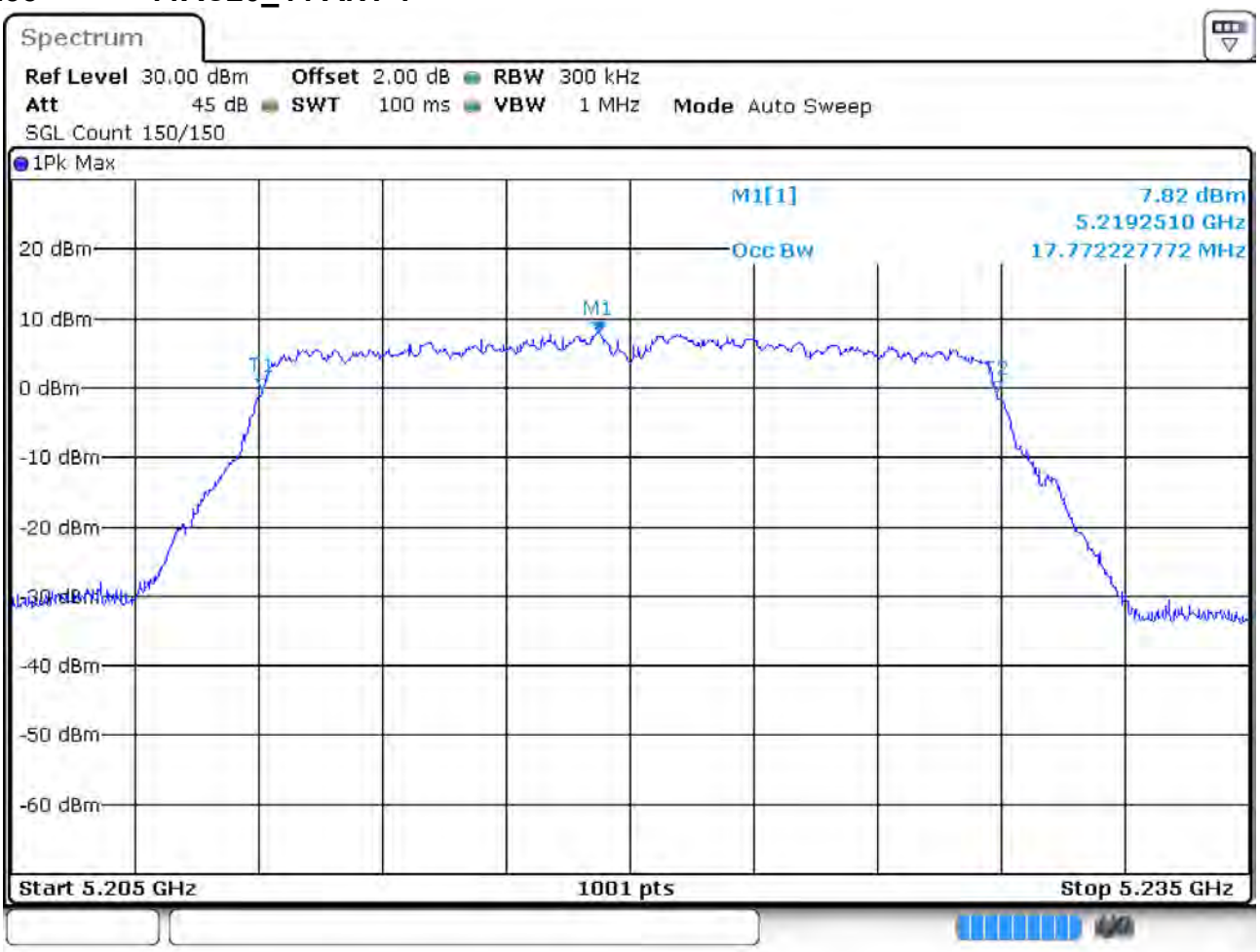


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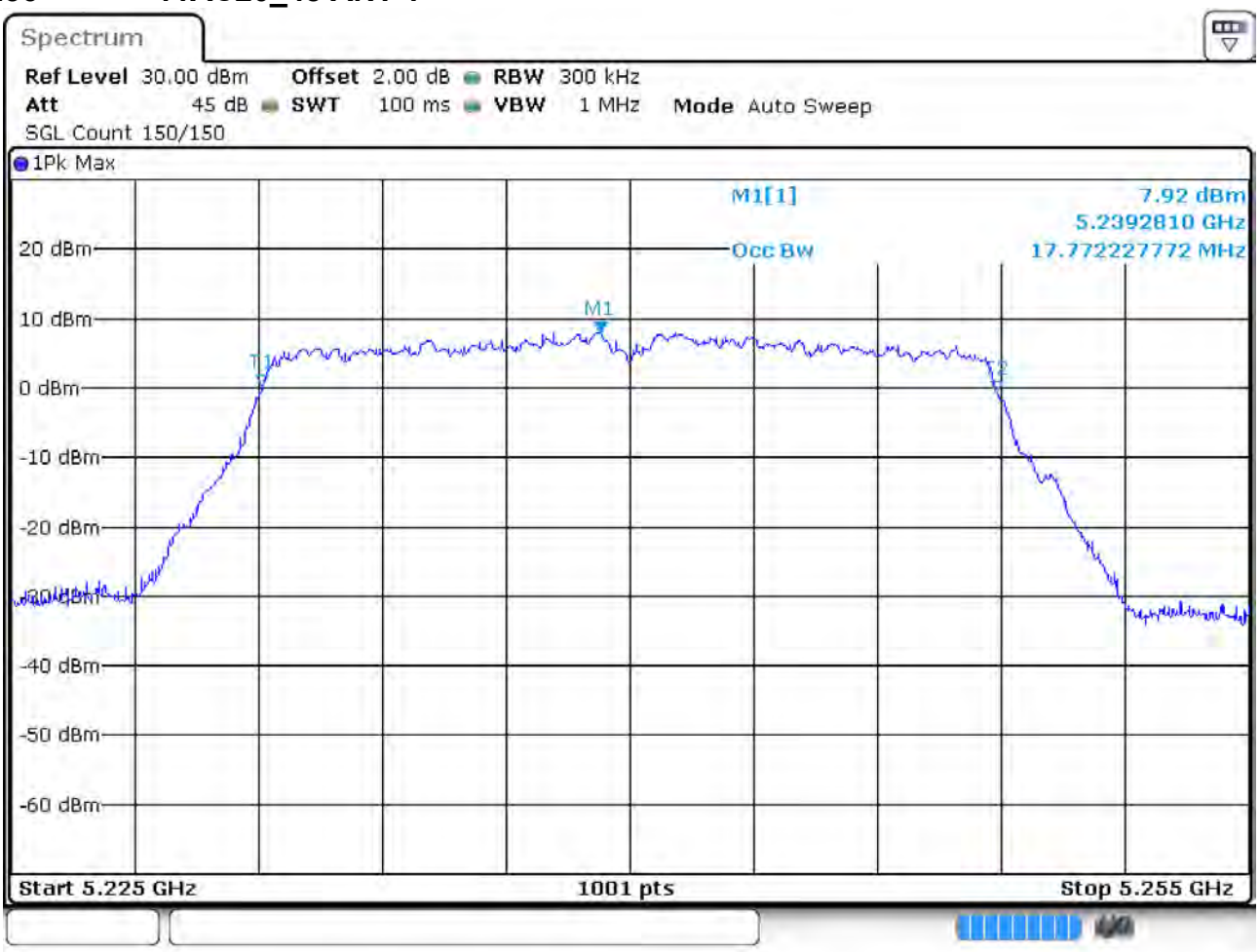
### 4.7.2.36 11AC20_48 ANT 1

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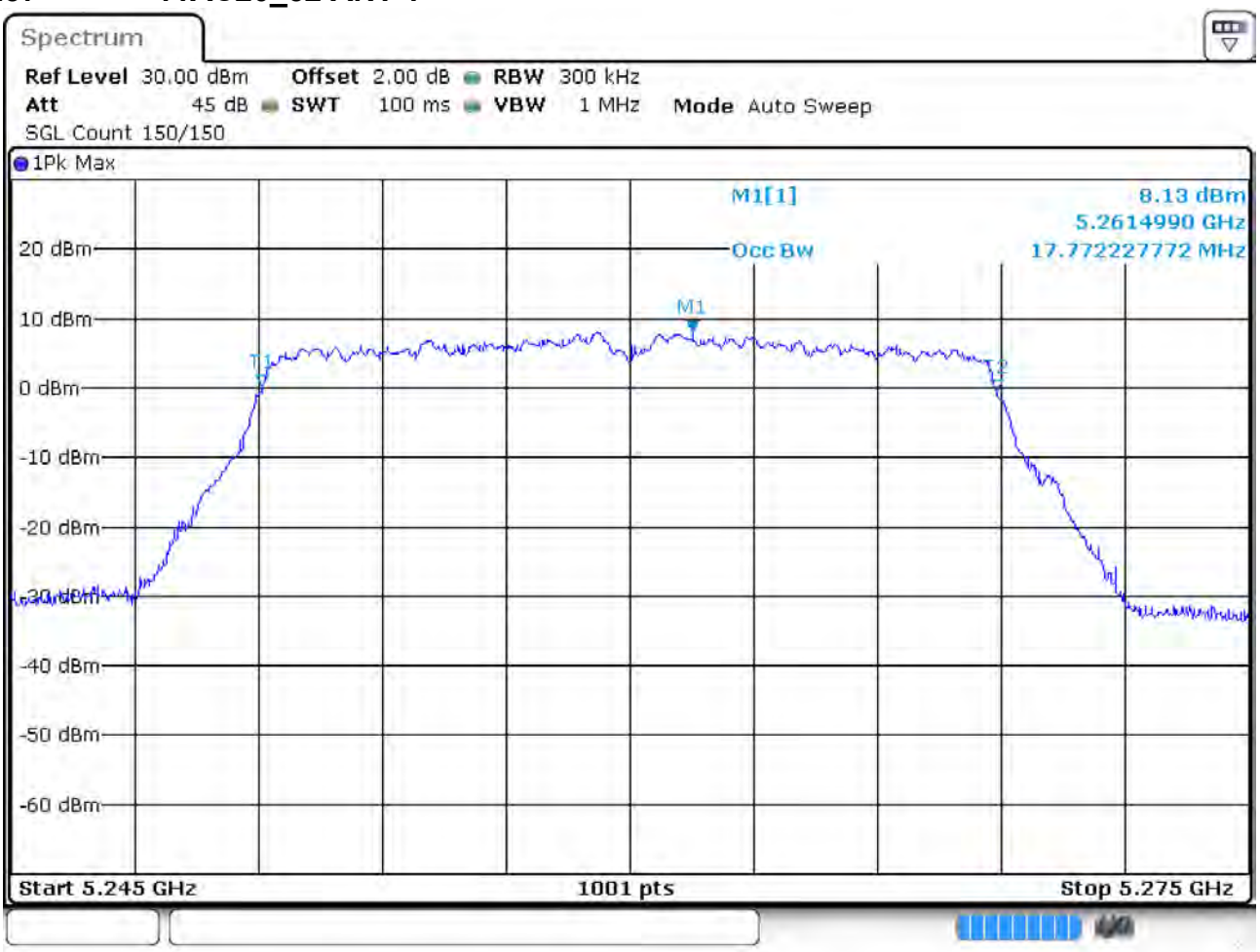


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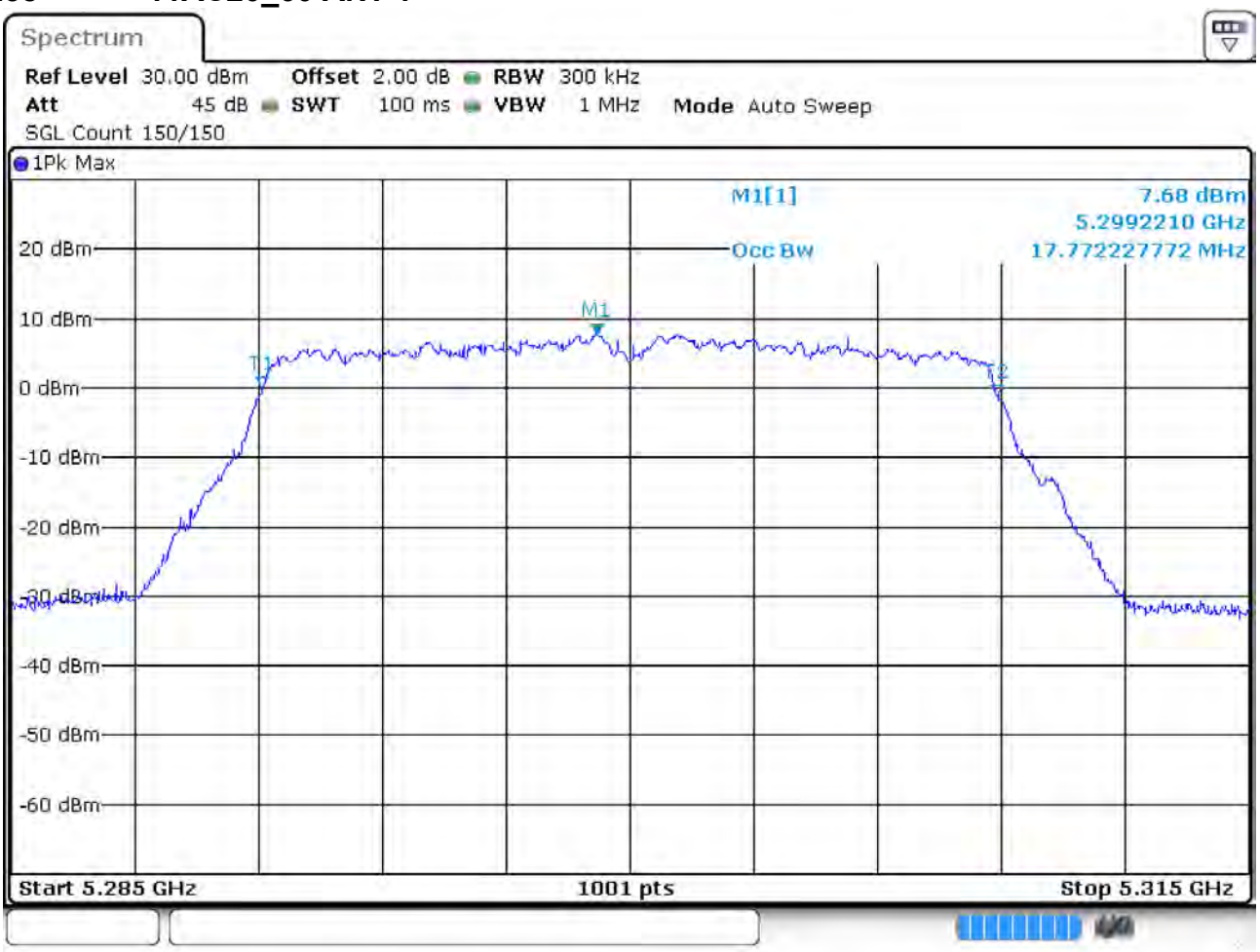
### 4.7.2.38 11AC20_60 ANT 1

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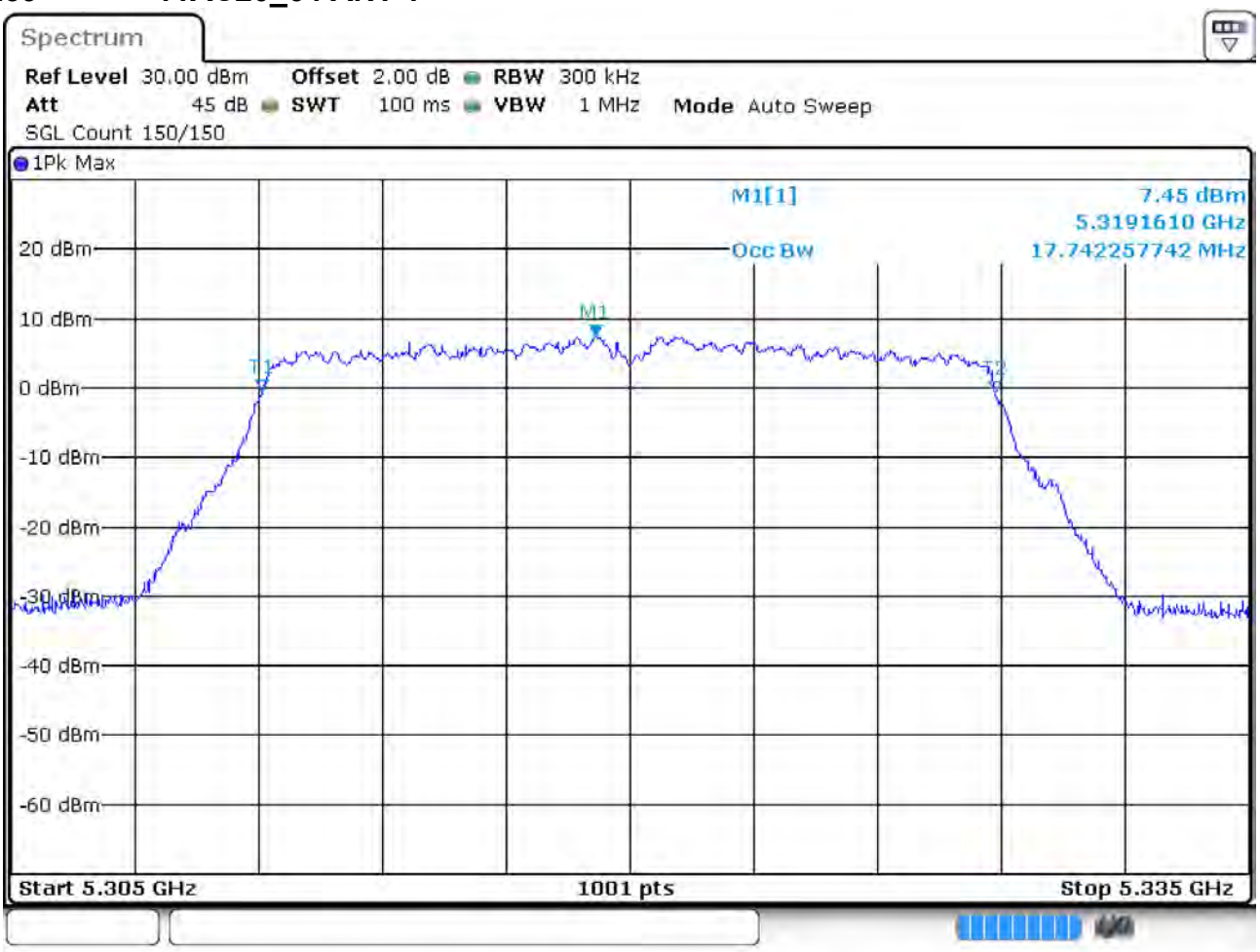


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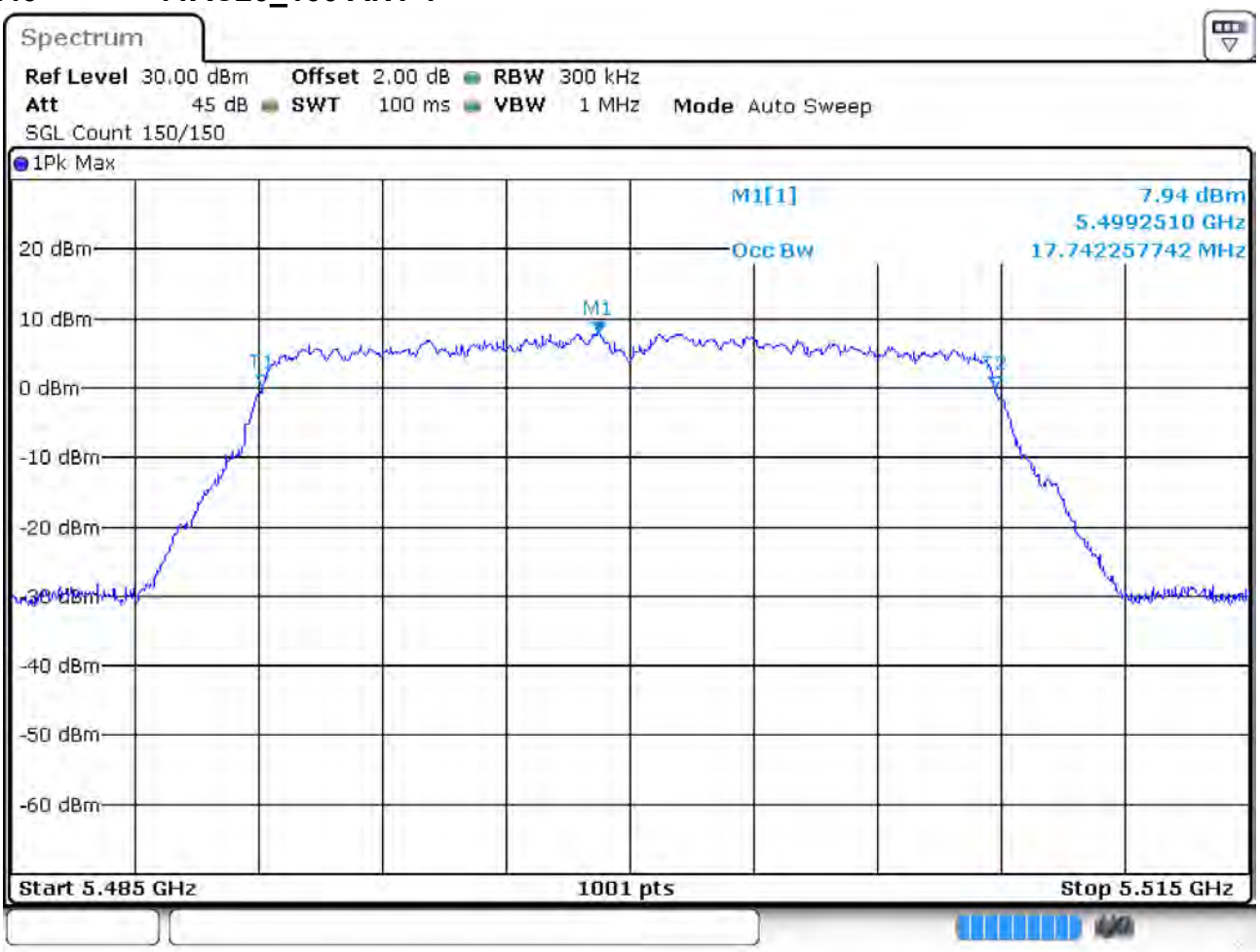
### 4.7.2.40 11AC20_100 ANT 1

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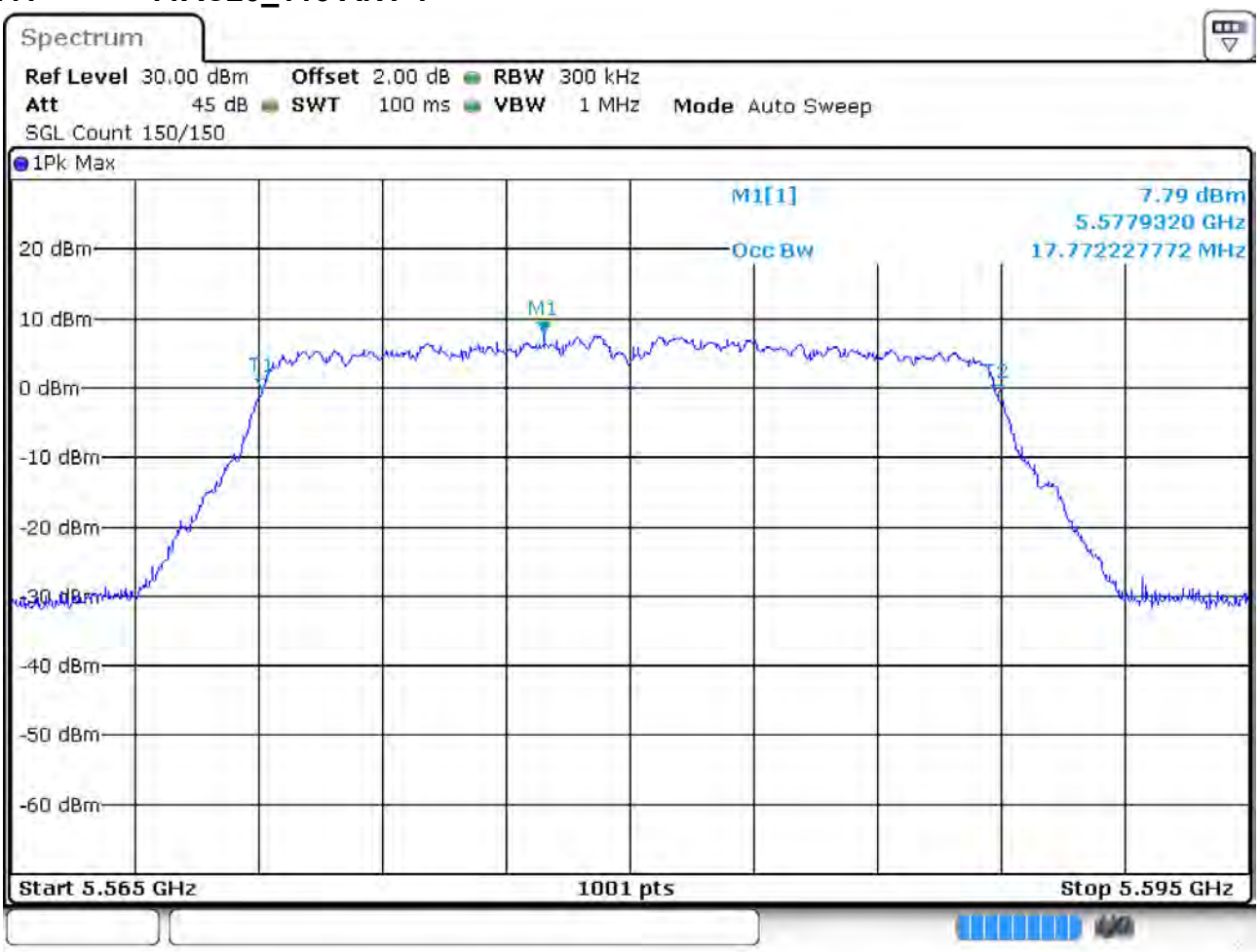


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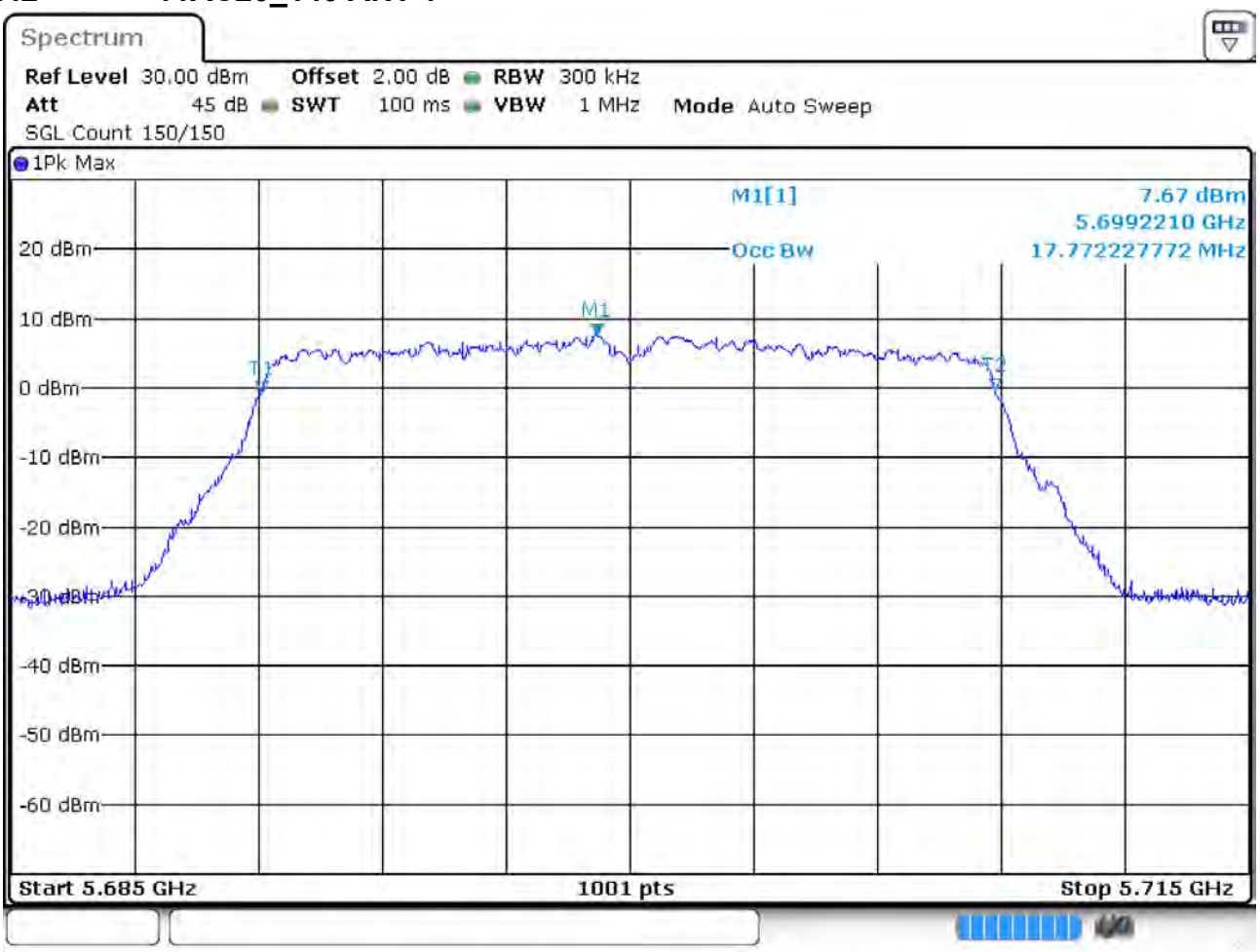


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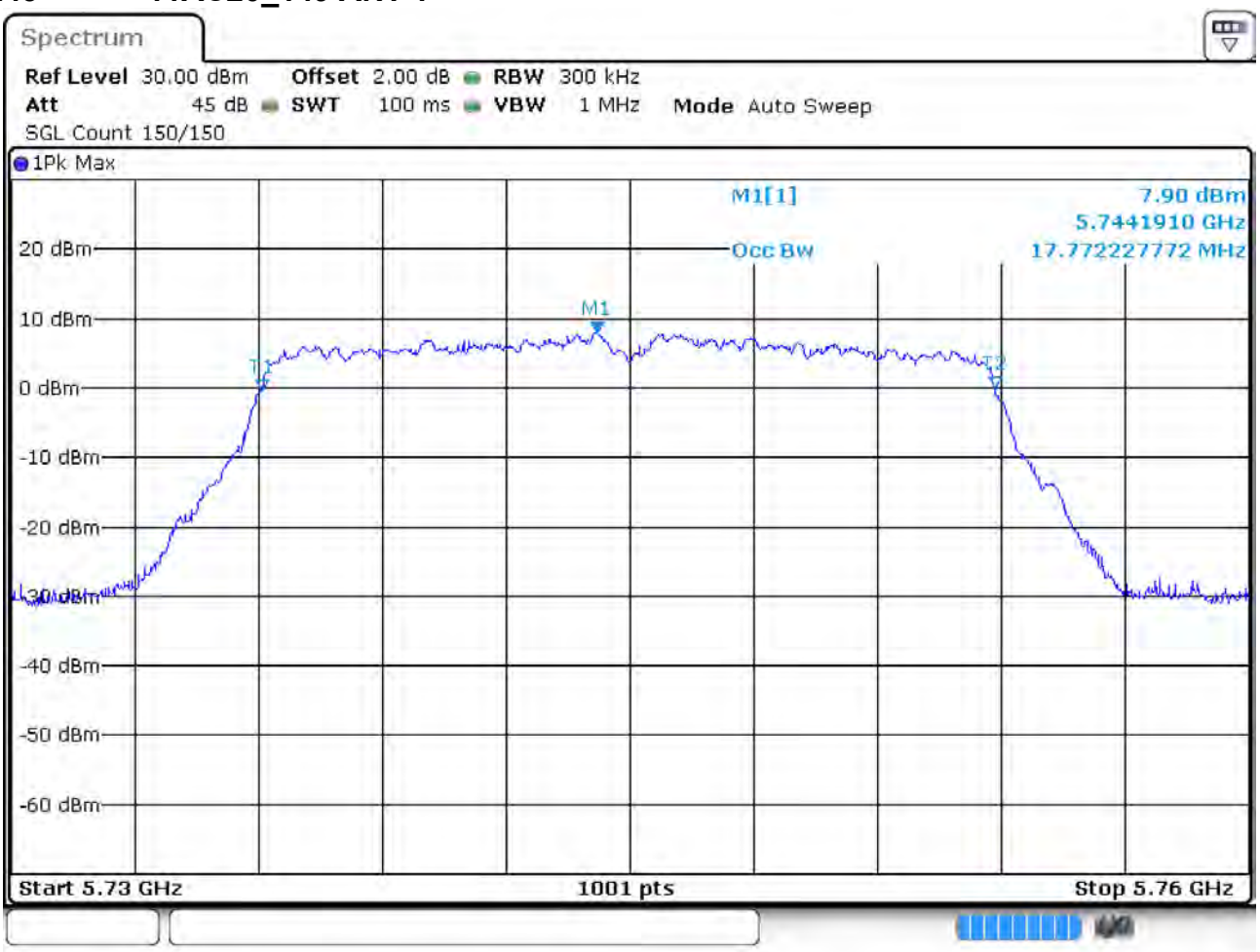
### 4.7.2.43 11AC20_149 ANT 1

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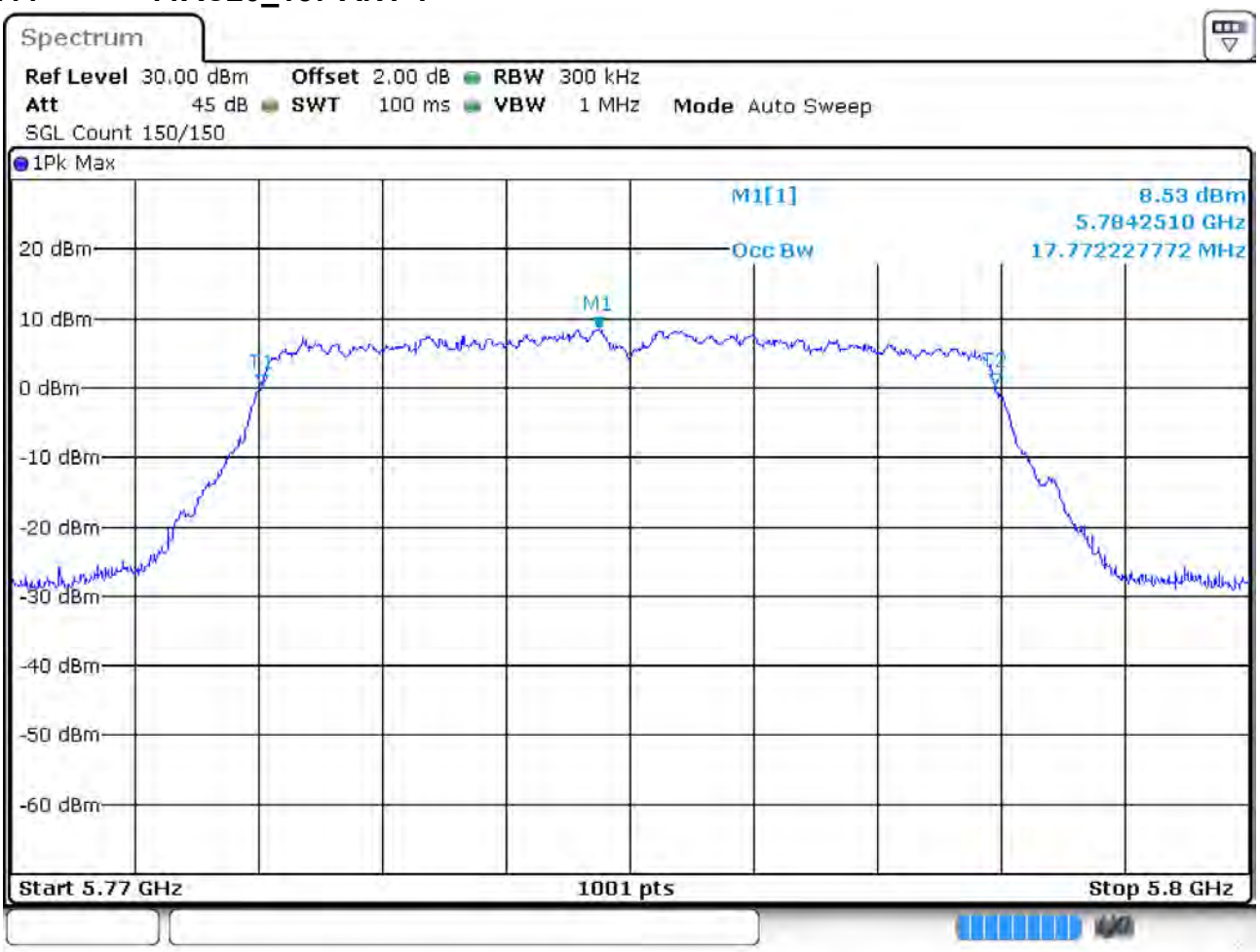


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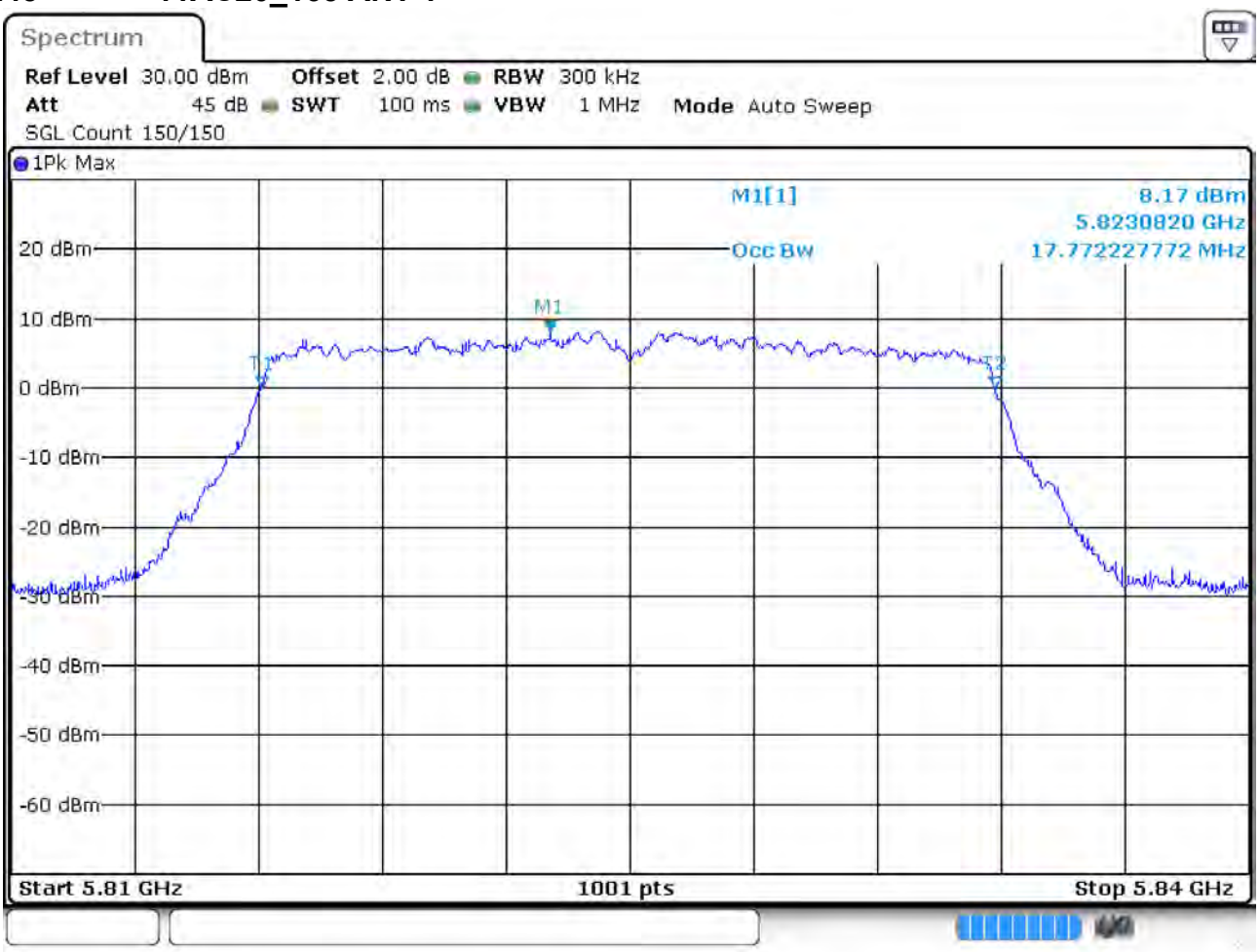
### 4.7.2.45 11AC20_165 ANT 1

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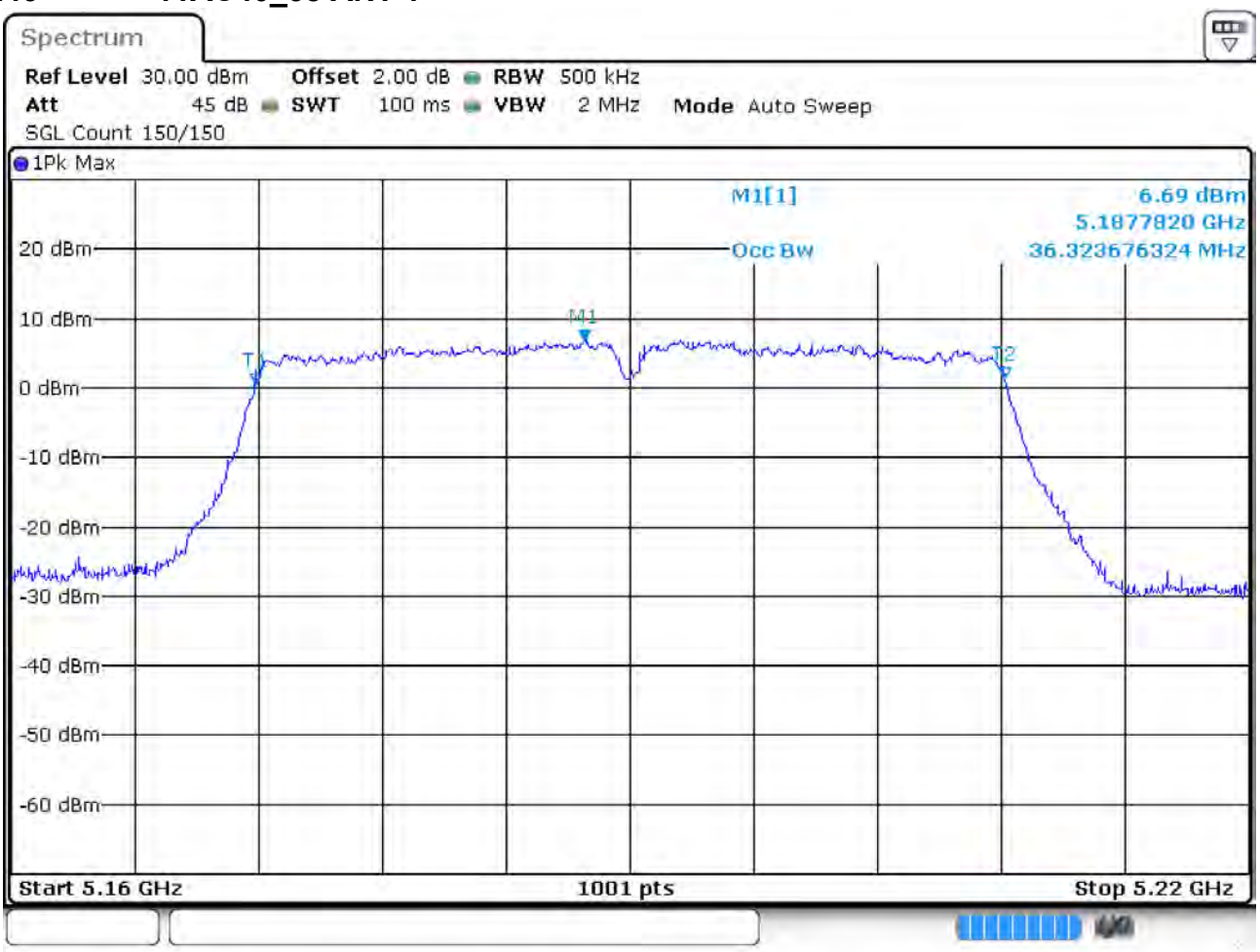


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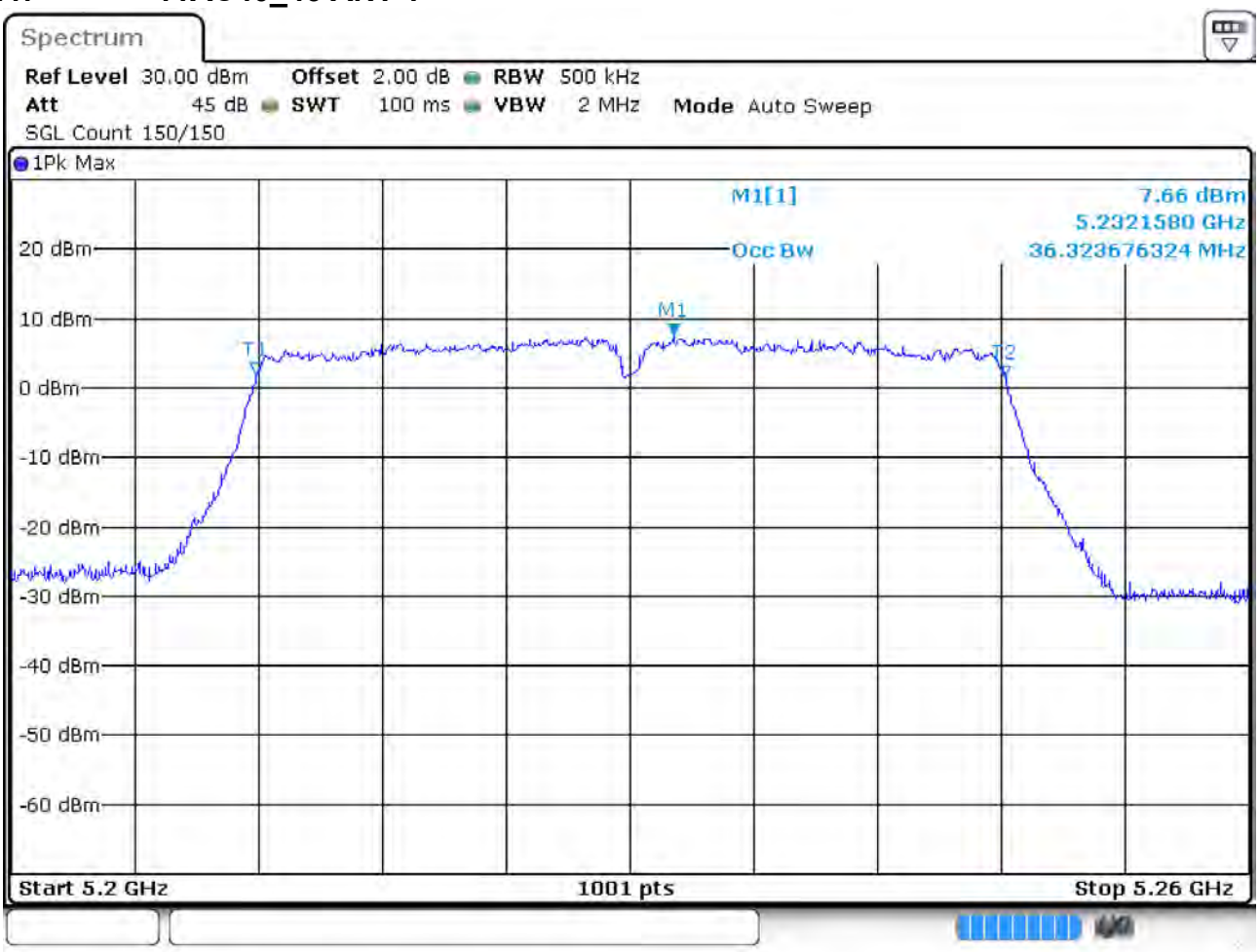


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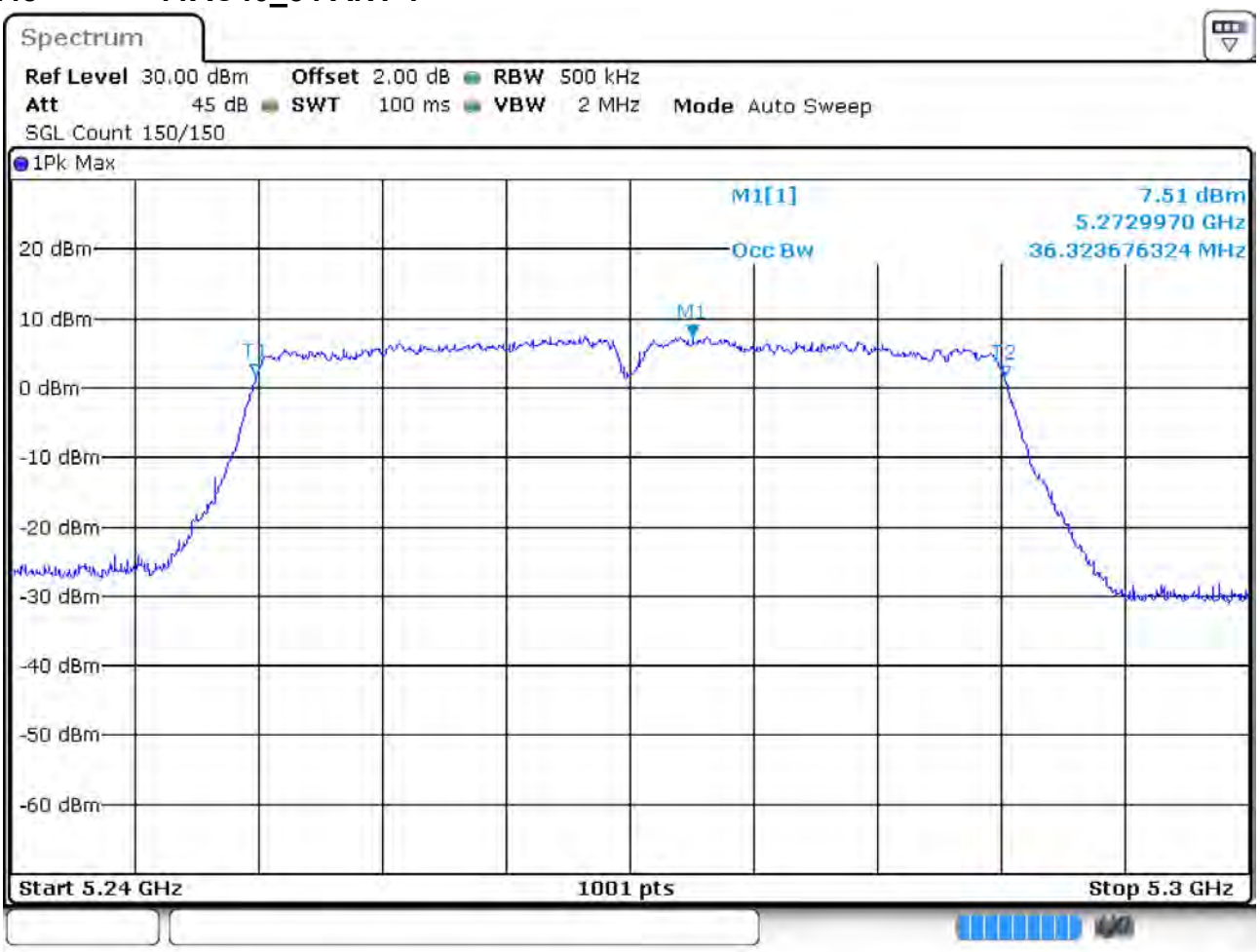


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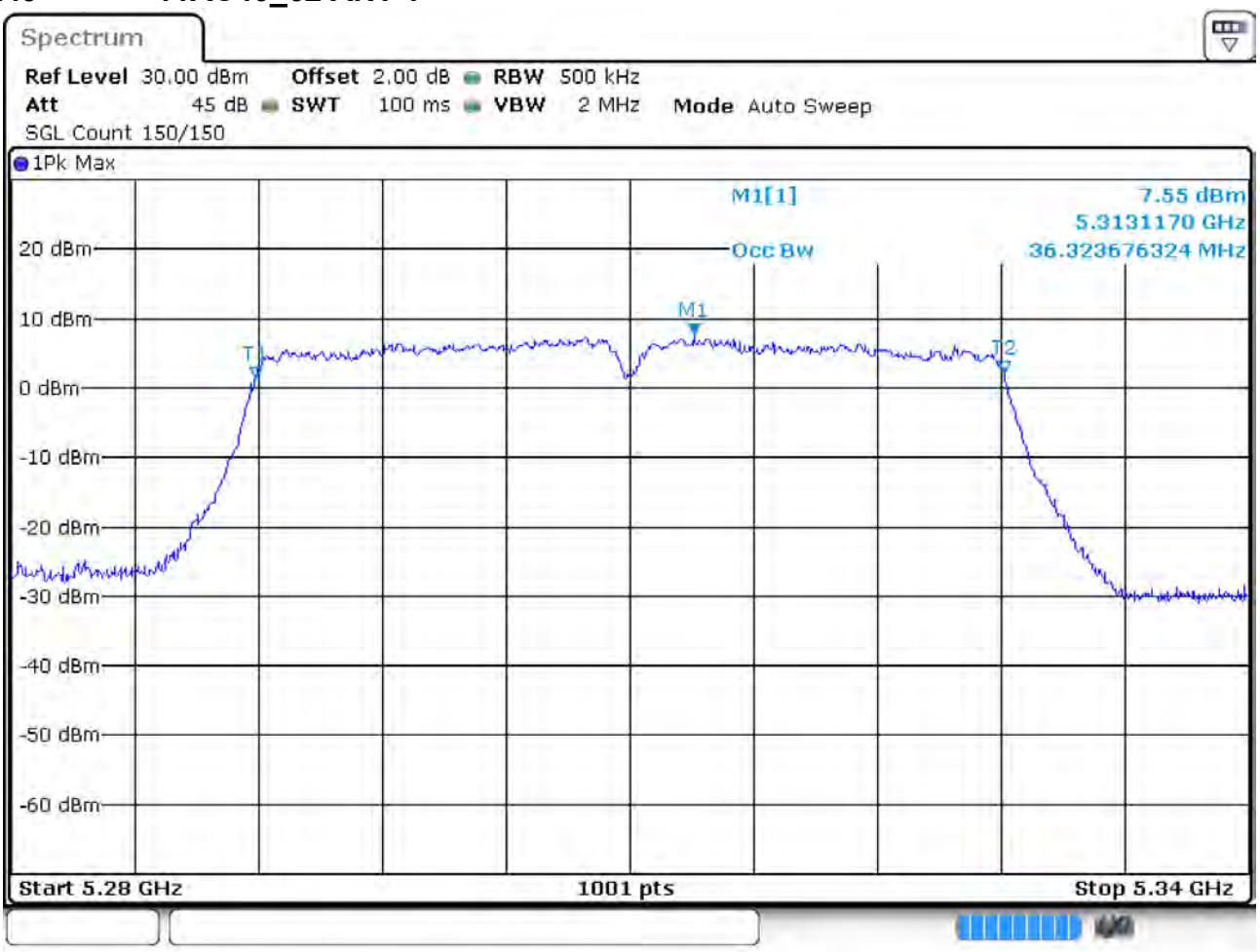
### 4.7.2.49 11AC40_62 ANT 1

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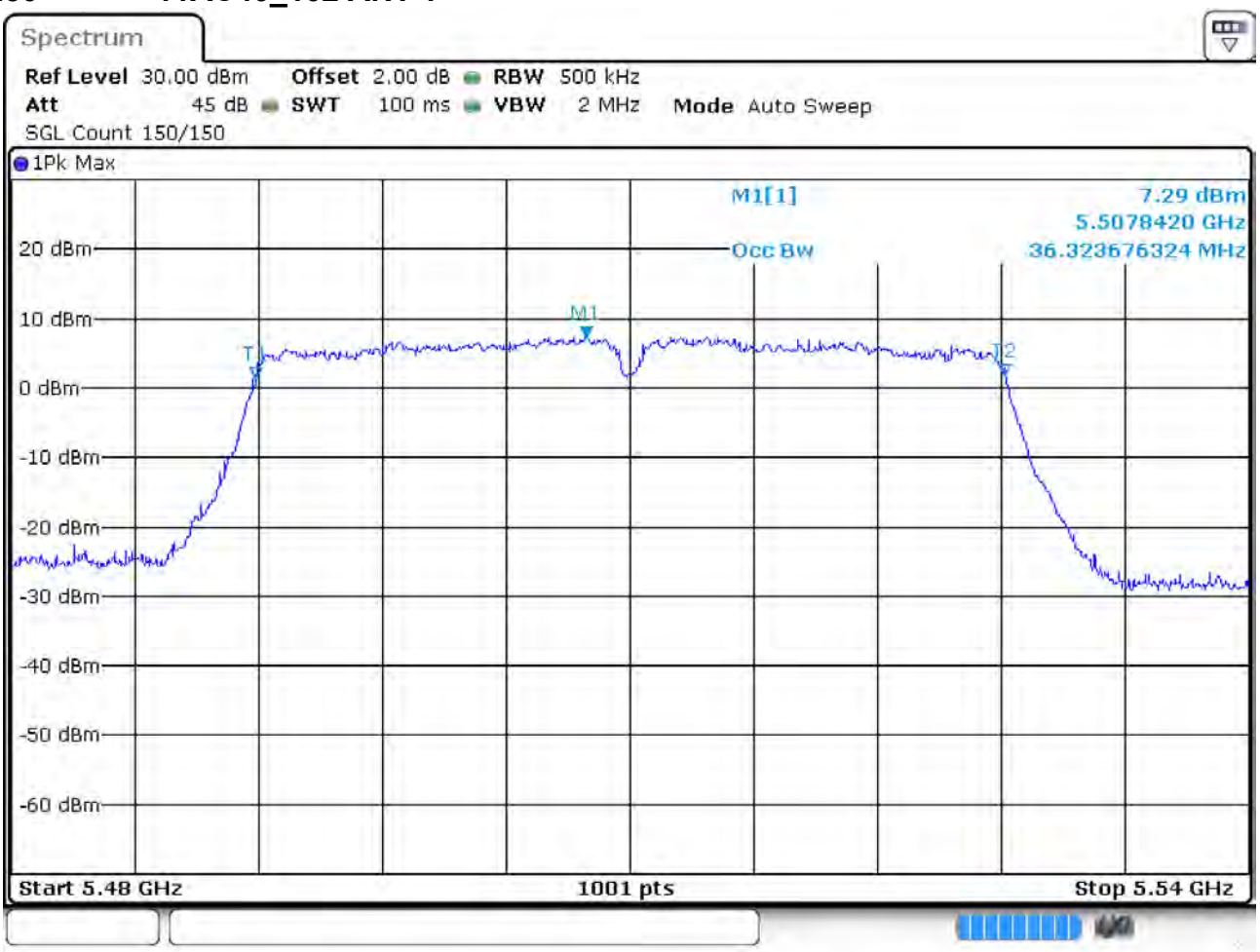


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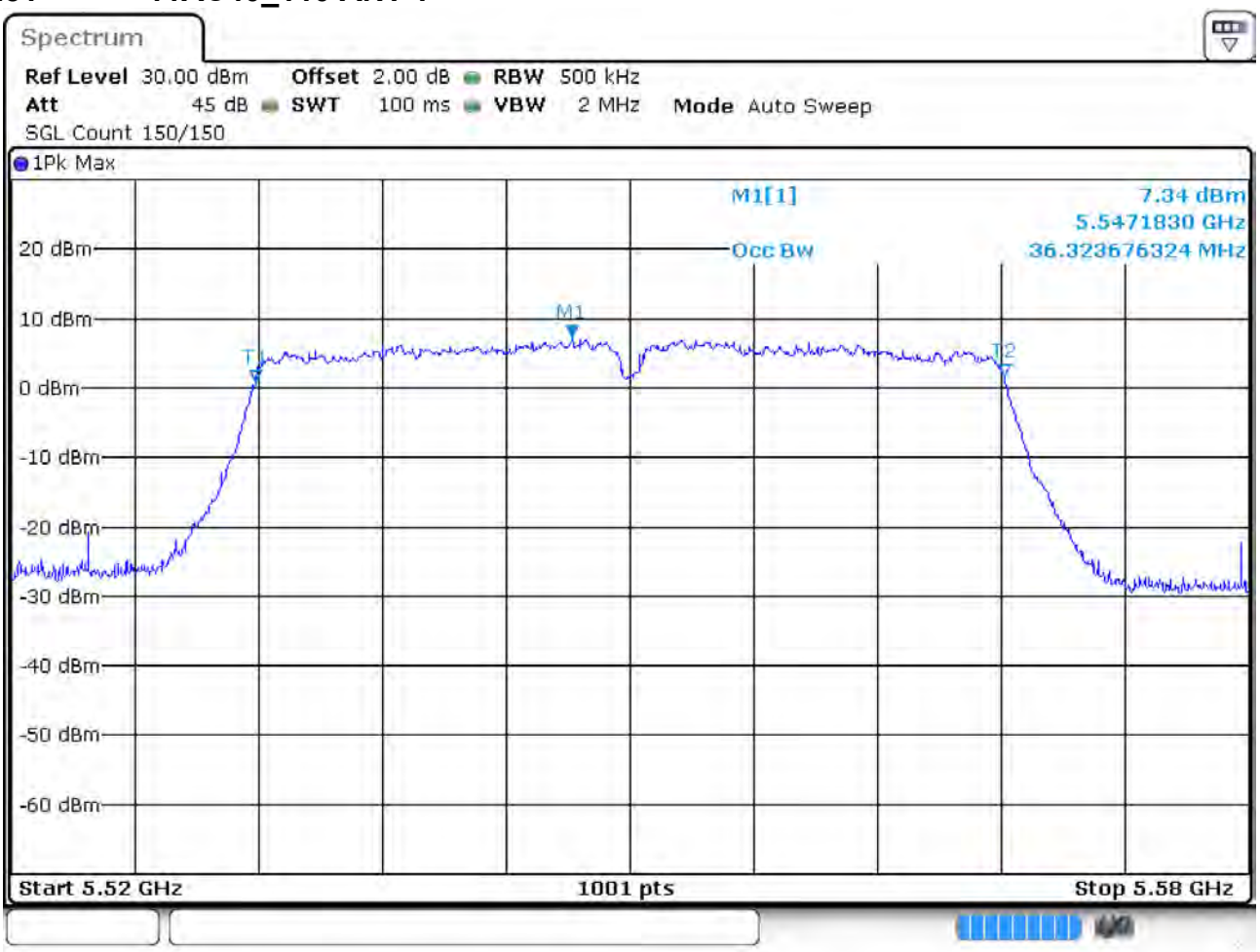


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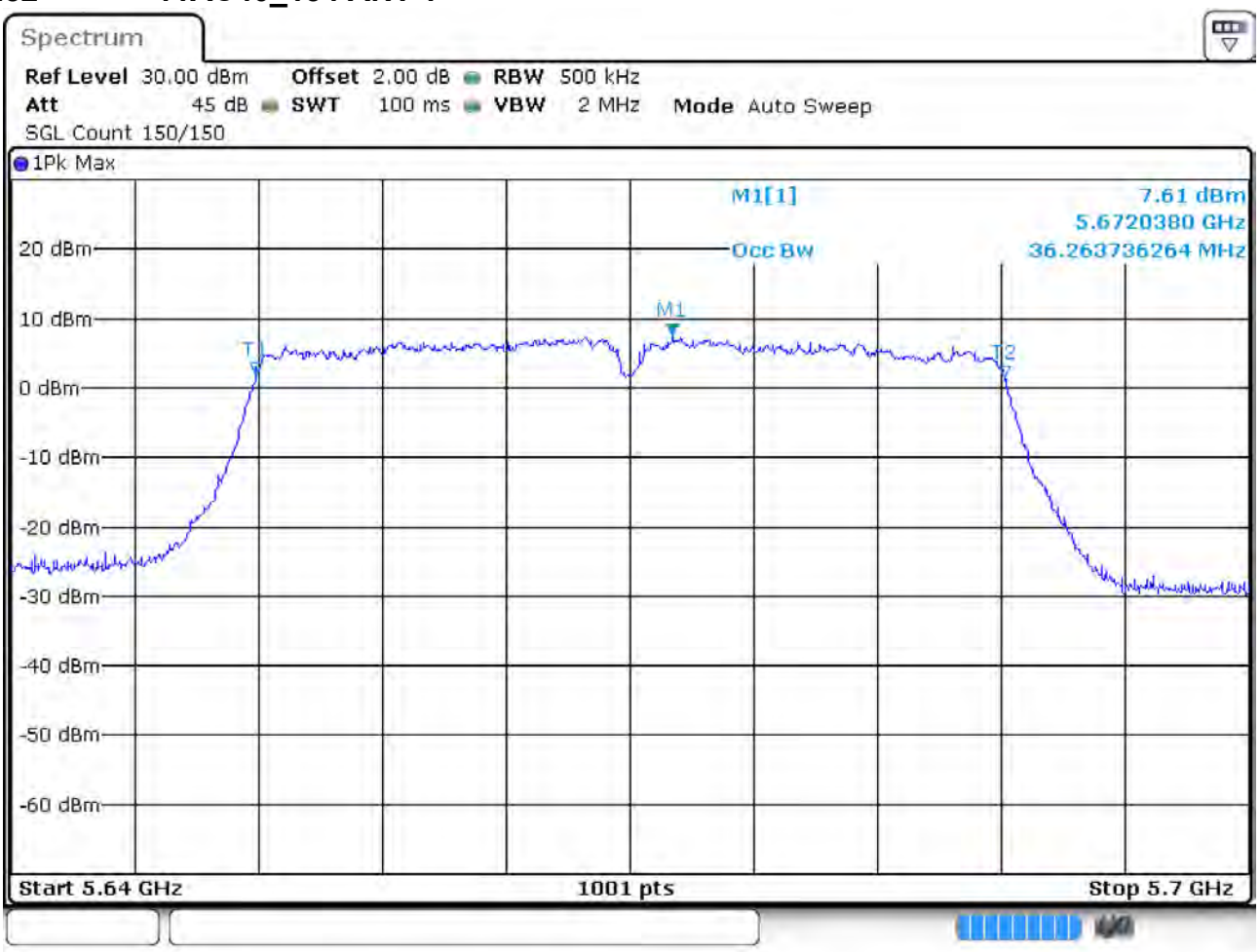


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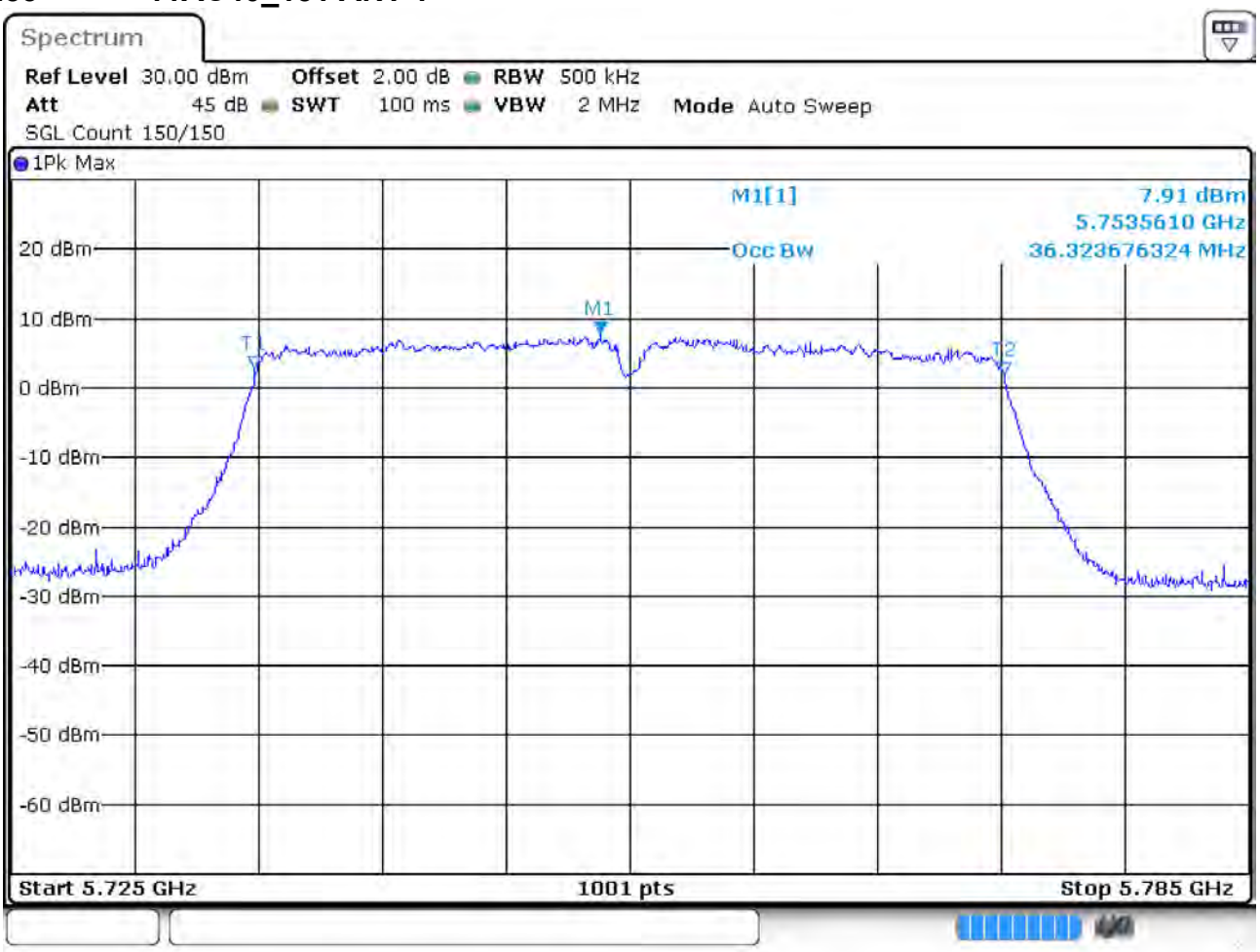


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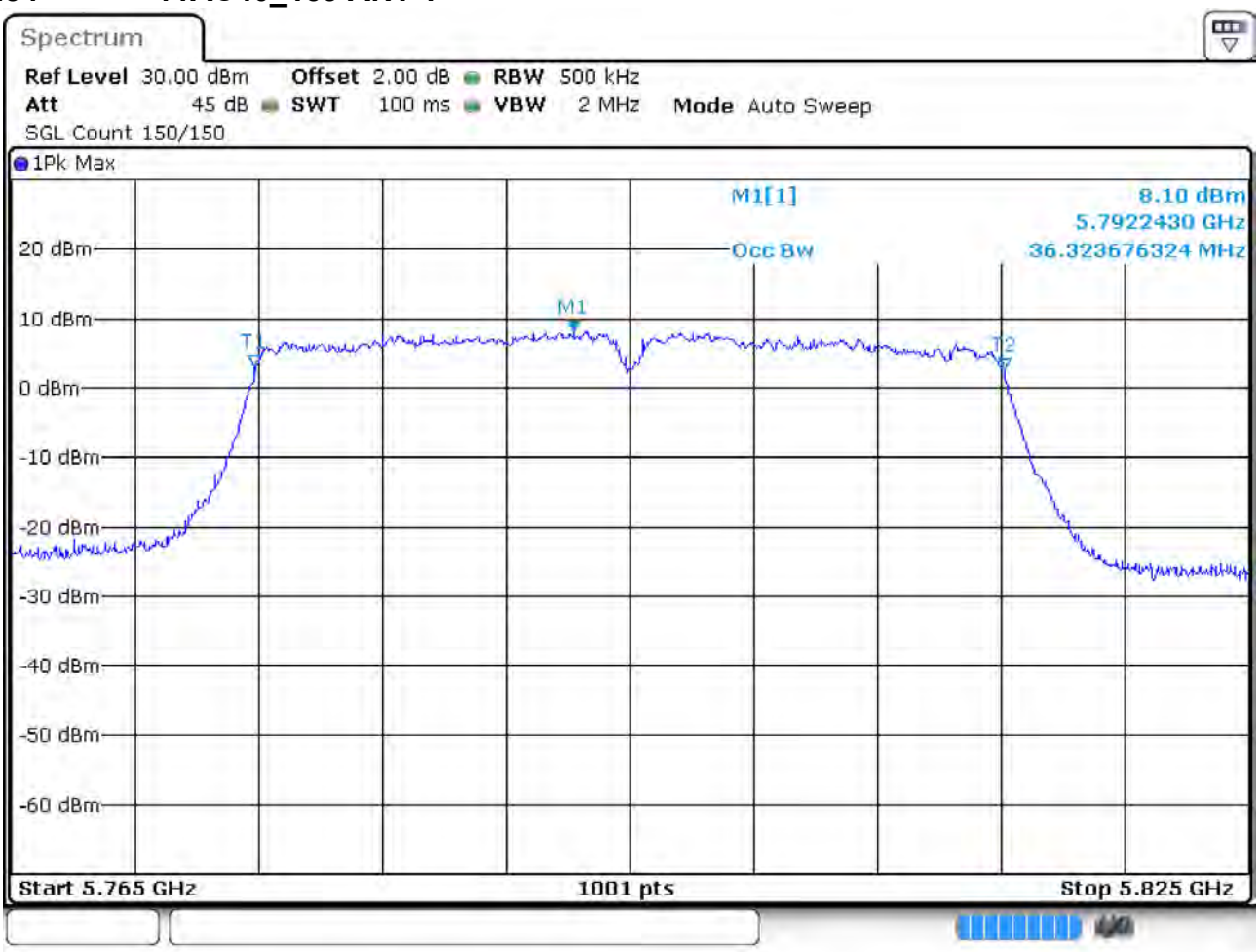


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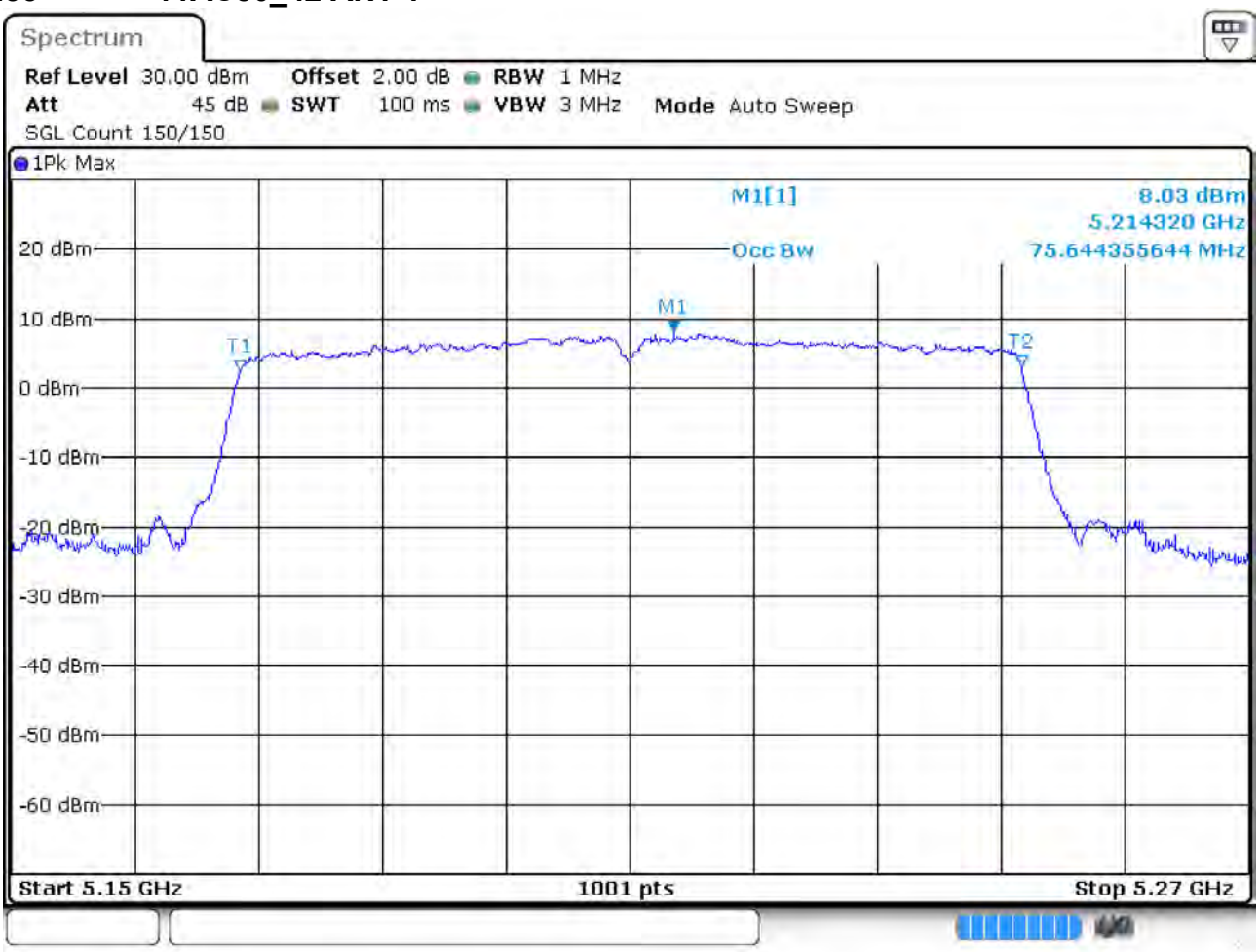


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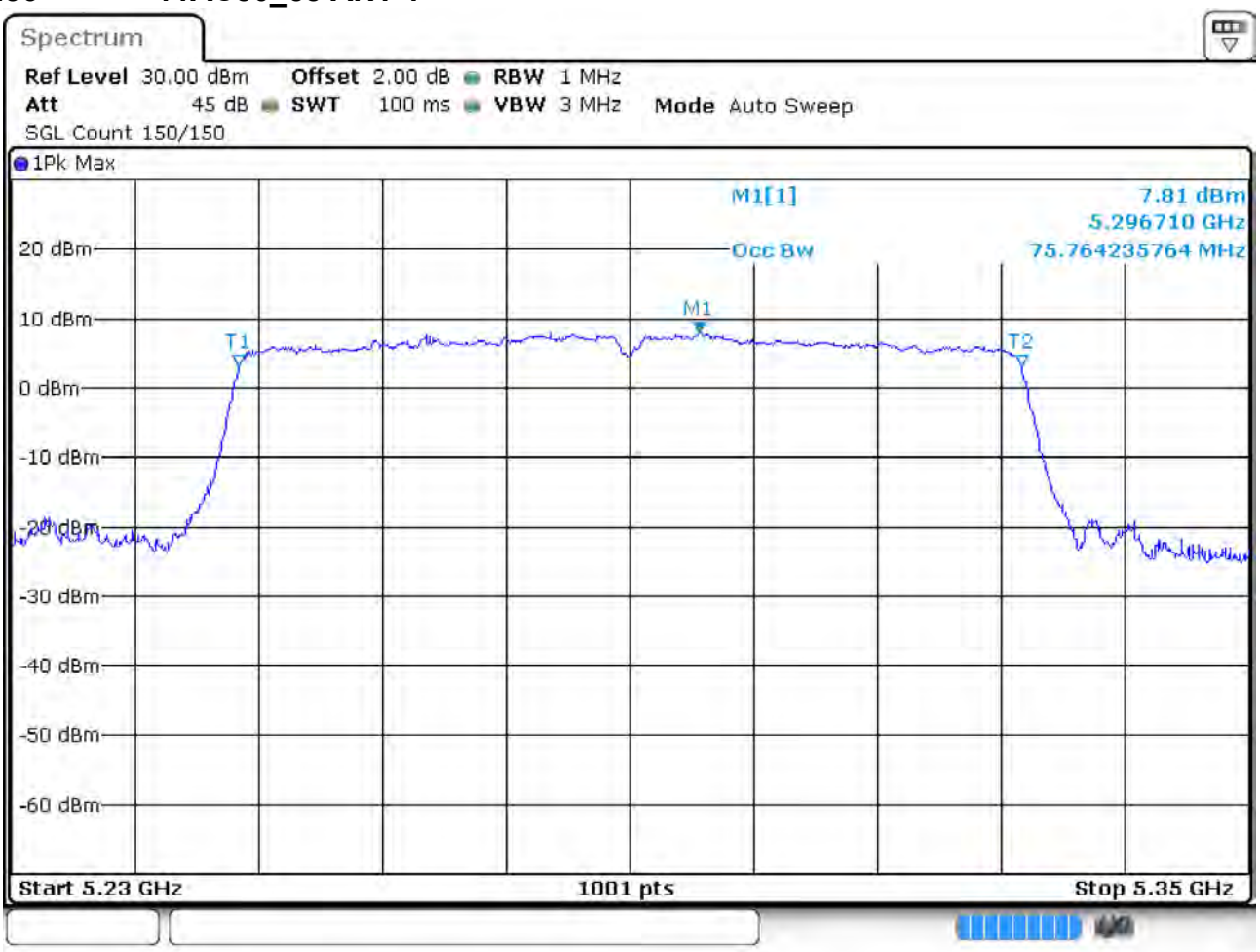
### 4.7.2.56 11AC80_58 ANT 1




Date: 11.SEP.2020 19:46:41

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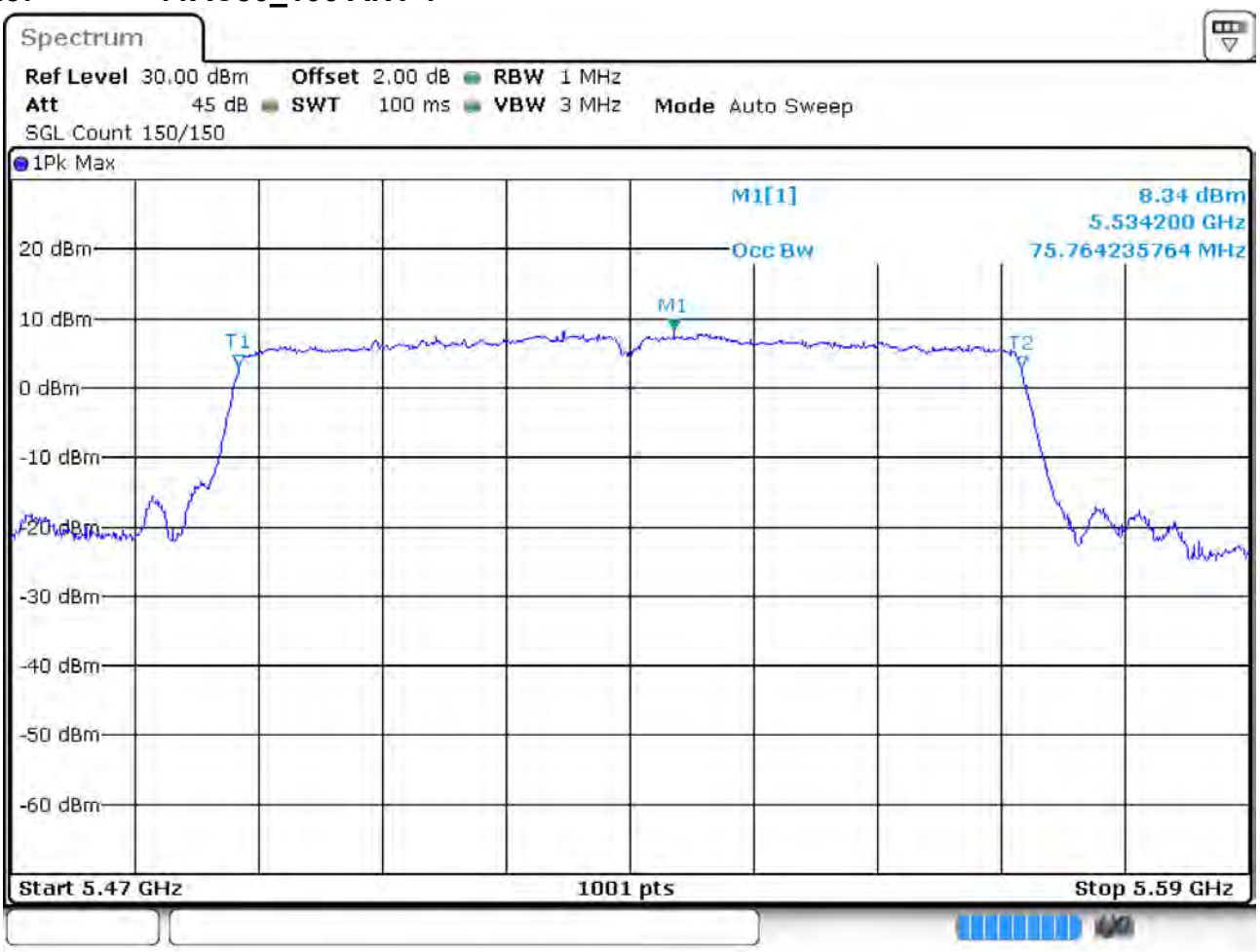
### 4.7.2.57 11AC80_106 ANT 1

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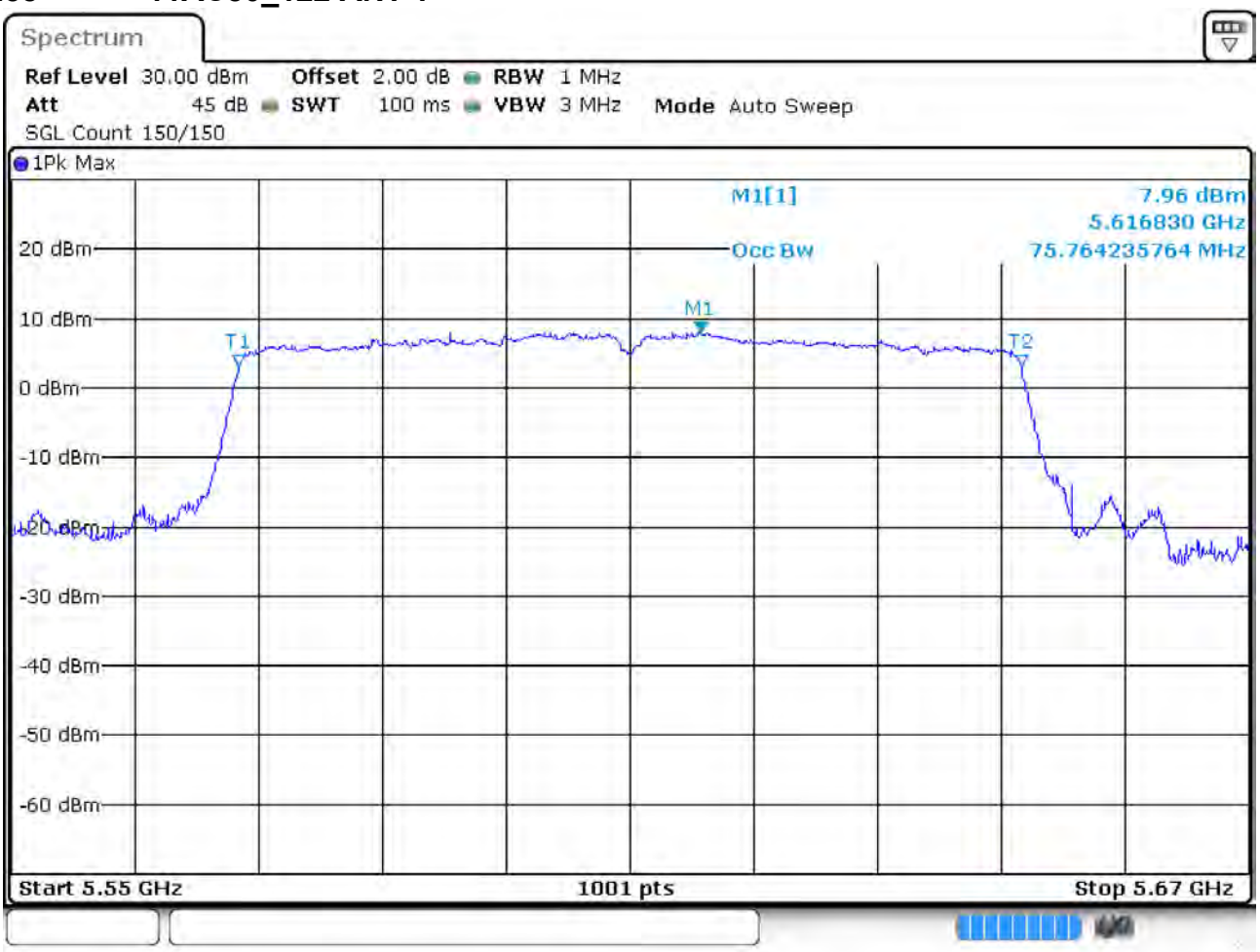
### 4.7.2.58 11AC80_122 ANT 1

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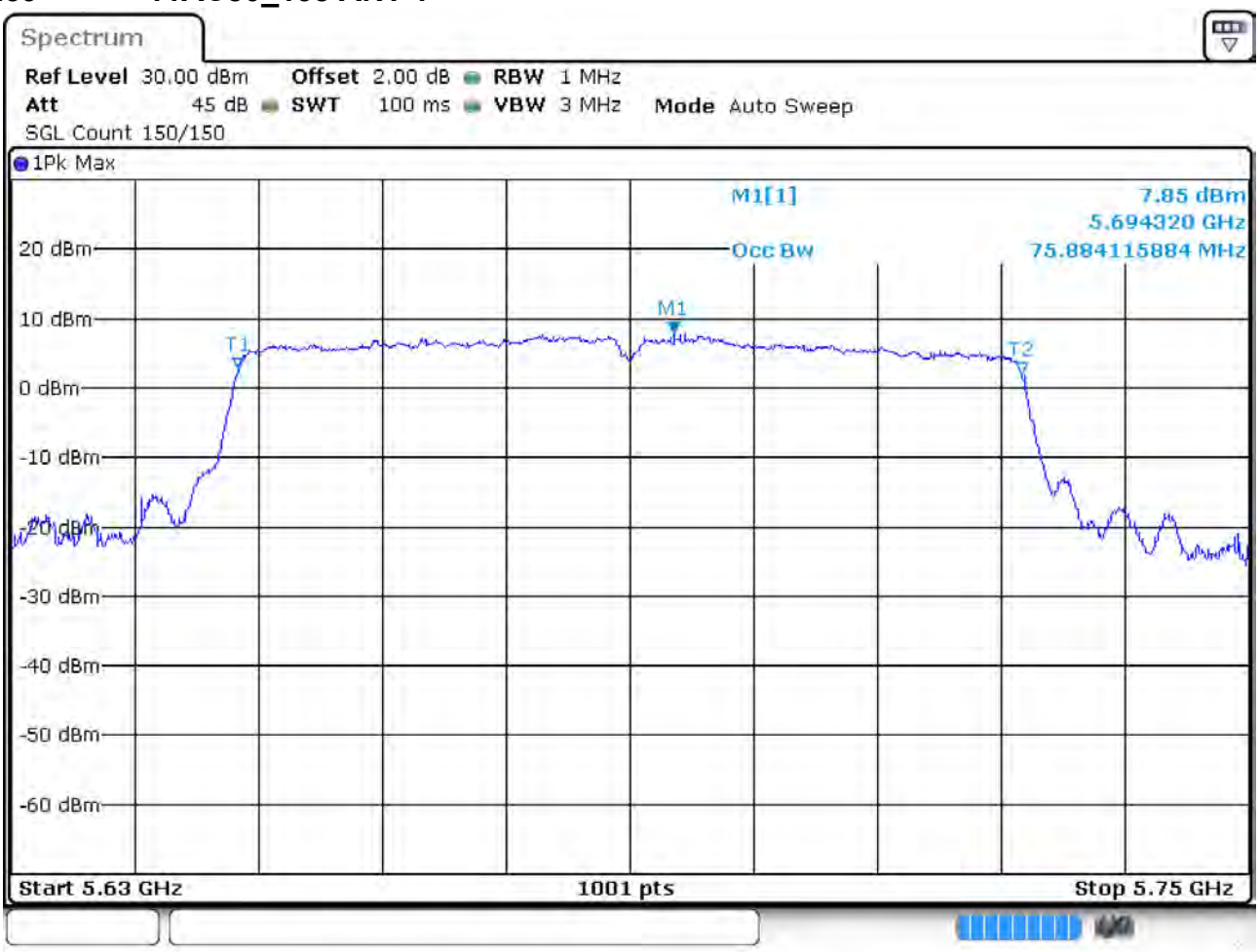
### 4.7.2.59 11AC80_138 ANT 1

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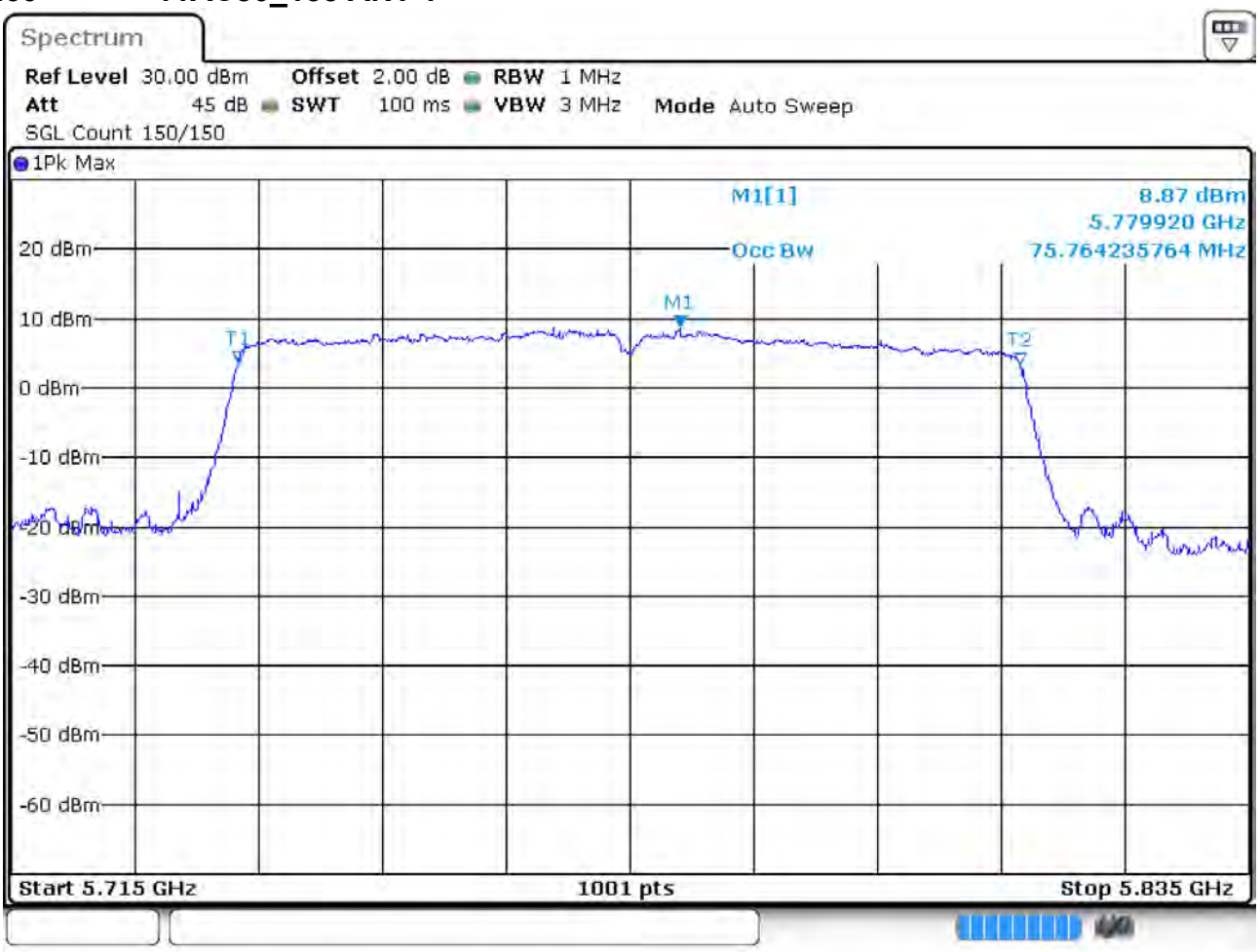
### 4.7.2.60 11AC80_155 ANT 1

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