



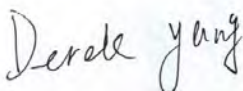
## FCC TEST REPORT

**Application No:** ZR/2020/20031  
**Applicant:** Fibocom Wireless Inc.  
**Address of Applicant:** 5/F, Tower A, Technology Building II, 1057# Nanhai Blvd, Shenzhen, China  
**Manufacturer:** Fibocom Wireless Inc.  
**Address of Manufacturer:** 5/F, Tower A, Technology Building II, 1057# Nanhai Blvd, Shenzhen, China  
**Factory:** BYD Precision Manufacture Co., Ltd  
**Address of Factory:** No. 3001, Baohe Road, Baolong Industrial City, Longgang street, Longgang District, Shenzhen  
**EUT Description:** LTE Module  
**Model No.:** SS808-NA  
**Trade Mark:** Fibocom  
**FCC ID:** ZMOSS808NA  
**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:** 2020/2/26  
**Date of Test:** 2020/2/27 to 2020/3/25  
**Date of Issue:** 2020/3/25

<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		2020/3/25		Original

<b>Authorized for issue by:</b>			
<b>Tested By</b>			2020/3/25
	<hr/>		<hr/>
	<b>(Mike Hu) /Project Engineer</b>		<b>Date</b>
<b>Checked By</b>			2020/3/25
	<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 4.4 Clause 4.5	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.		
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.3	Pass
	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	Clause 4.7	Pass



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
			(AV&PK).		
	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) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz & out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than		



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
			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 4.8	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 4.9	Pass
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.10	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:	Fibocom Wireless Inc.
Address of Applicant:	5/F, Tower A, Technology Building II, 1057# Nanhai Blvd, Shenzhen, China
Manufacturer:	Fibocom Wireless Inc.
Address of Manufacturer:	5/F, Tower A, Technology Building II, 1057# Nanhai Blvd, Shenzhen, China
Factory:	BYD Precision Manufacture Co., Ltd
Address of Factory:	No. 3001, Baohe Road, Baolong Industrial City, Longgang street, Longgang District, Shenzhen

#### 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:	LTE Module
Model No.:	SS808-NA
Trade Mark:	Fibocom
Hardware Version:	V1.0.1
Software Version:	SS808_NA_00_00-20200102-1
IEEE 802.11 WLAN Mode Supported:	<input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ac (20 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ac (40 MHz channel bandwidth); <input checked="" type="checkbox"/> 802.11ac (80 MHz channel bandwidth)
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(HT20/40/80/): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
DFS mode:	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection
Sample Type:	<input type="checkbox"/> Portable Device, <input checked="" type="checkbox"/> Module
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11a/n/ac), <input type="checkbox"/> MIMO (for 802.11n/ac), <input type="checkbox"/> Diversity (for 802.11a) : Tx & Rx
Antenna Gain:	3.66dBi,
Power Supply	<input checked="" type="checkbox"/> AC/DC Adapter; <input type="checkbox"/> PoE; <input type="checkbox"/> Other:

**Remark:**

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

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



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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
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



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	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

<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 3.66dBi.	

### 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>	<b>Frequency range (MHz)</b>	<b>Limit (dBuV)</b>	
		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>		



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

**Measurement Data**

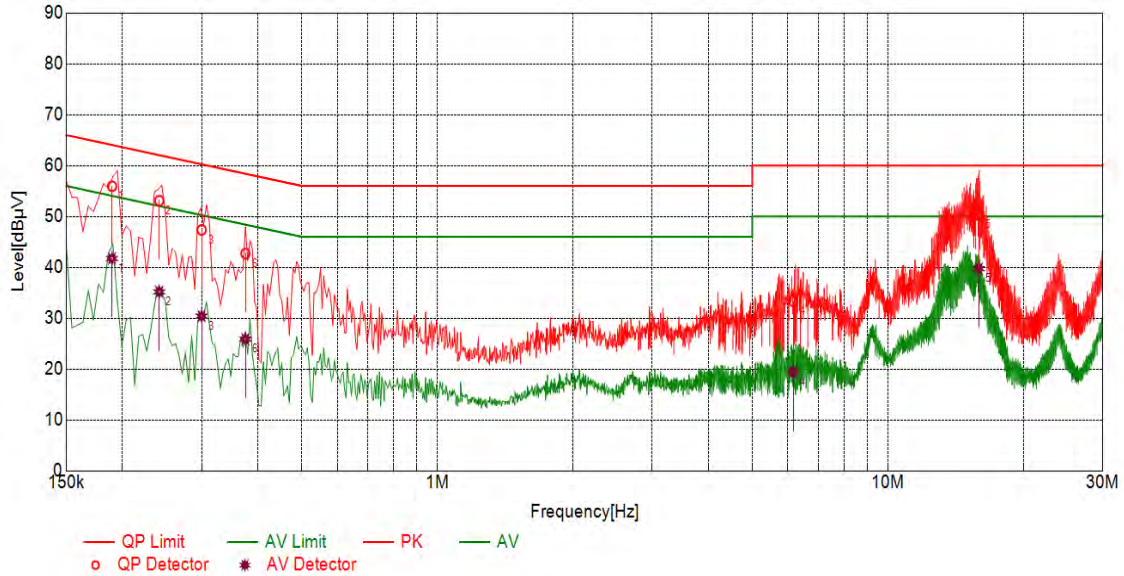
An initial pre-scan was performed on the live and neutral lines with peak detector.

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



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Live Line:



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	0.1897	10.10	55.94	64.05	8.11	41.73	54.05	12.32	L
2	0.2414	10.10	53.10	62.05	8.95	35.16	52.05	16.89	L
3	0.2998	10.10	47.35	60.25	12.90	30.41	50.25	19.84	L
4	6.1658	10.10	33.37	60.00	26.63	19.41	50.00	30.59	L
5	15.9100	10.11	50.26	60.00	9.74	39.73	50.00	10.27	L
6	0.3750	10.10	42.72	58.39	15.67	25.89	48.39	22.50	L

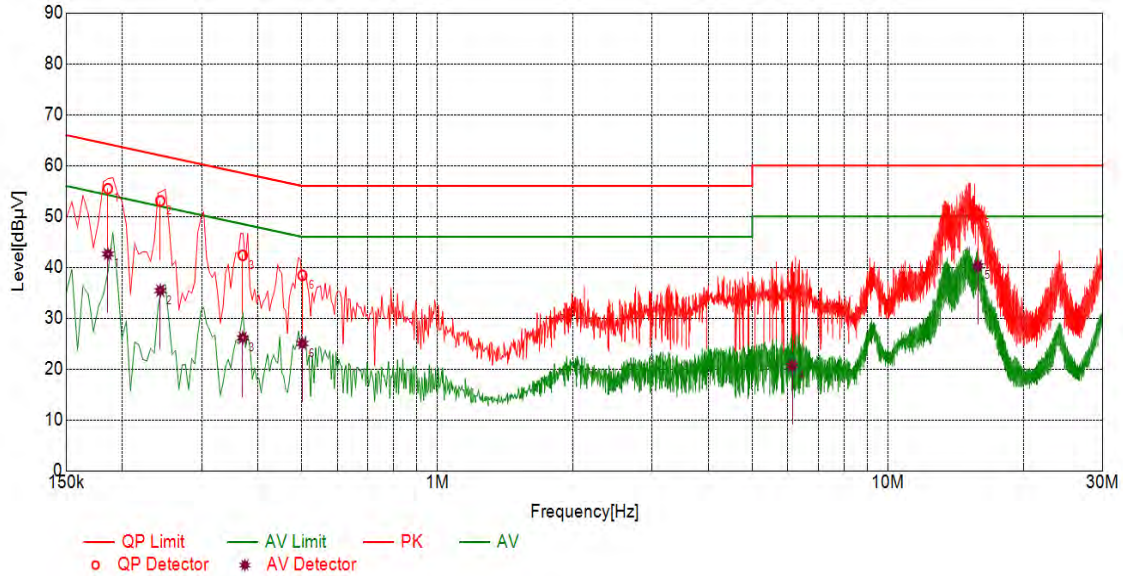


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Neutral Line:



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	55.47	64.22	8.75	42.60	54.22	11.62	N
2	0.2428	10.10	53.06	62.00	8.94	35.42	52.00	16.58	N
3	0.3700	10.10	42.35	58.50	16.15	26.14	48.50	22.36	N
4	6.1366	10.10	34.85	60.00	25.15	20.69	50.00	29.31	N
5	15.8393	10.11	50.48	60.00	9.52	40.28	50.00	9.72	N
6	0.5018	10.10	38.42	56.00	17.58	25.03	46.00	20.97	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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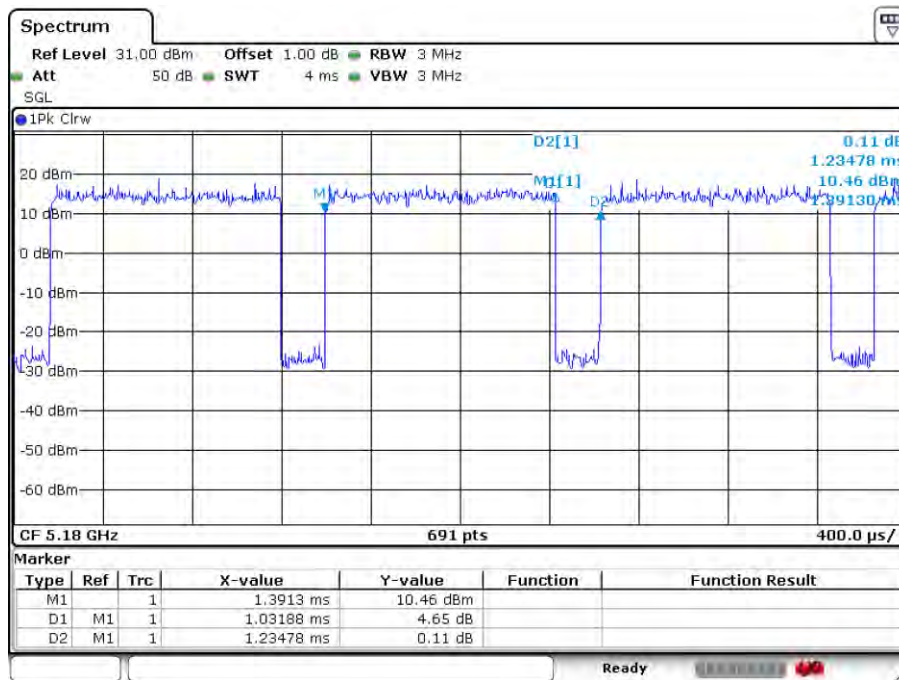
### 4.3 Duty Cycle

#### 4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11A	Ant 1: CH36	83.57
11N20	Ant 1: CH36	83.17
11N40	Ant 1: CH38	71.01
11AC20	Ant 1: CH36	83.25
11AC40	Ant 1: CH38	71.13
11AC80	Ant 1: CH42	55.16

#### 4.3.1 Test Plots

##### 4.3.1.1 ANT1 4.3.1.1.1 11A



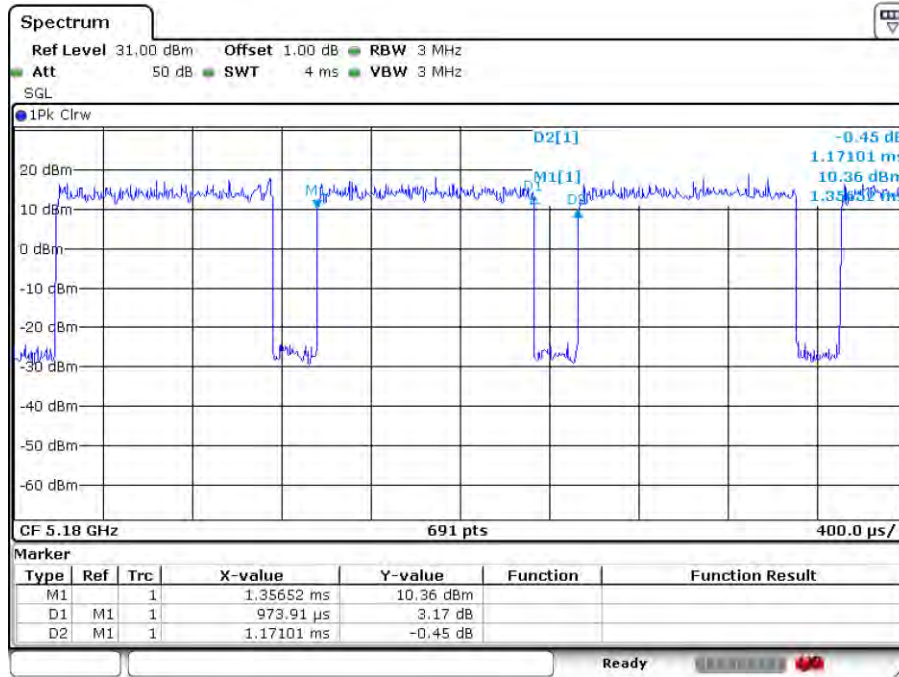
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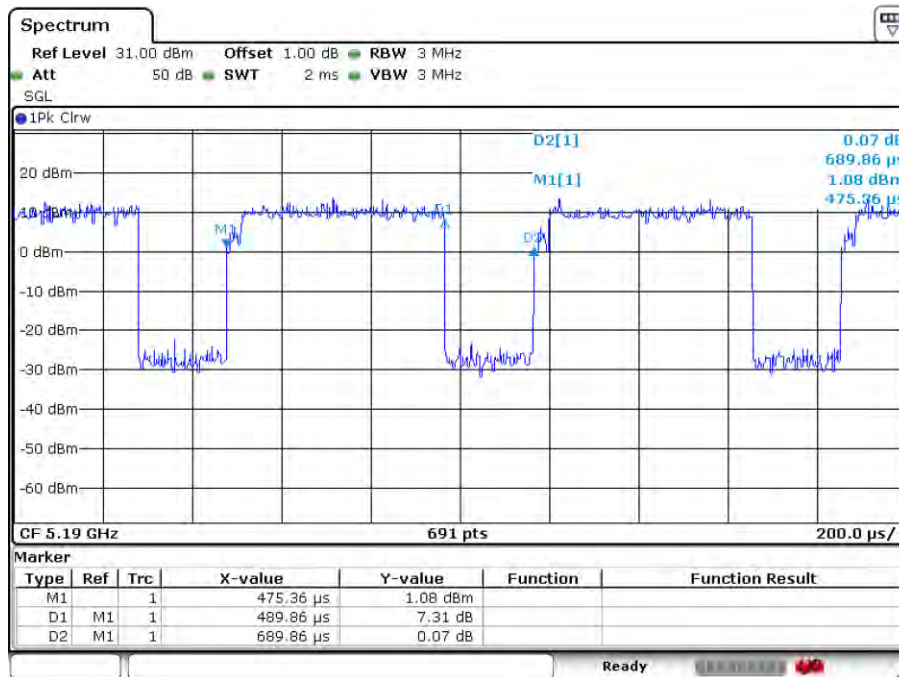
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**4.3.1.1.2 11N20**



Date: 13.MAR.2020 12:39:10

**4.3.1.1.3 11N40**



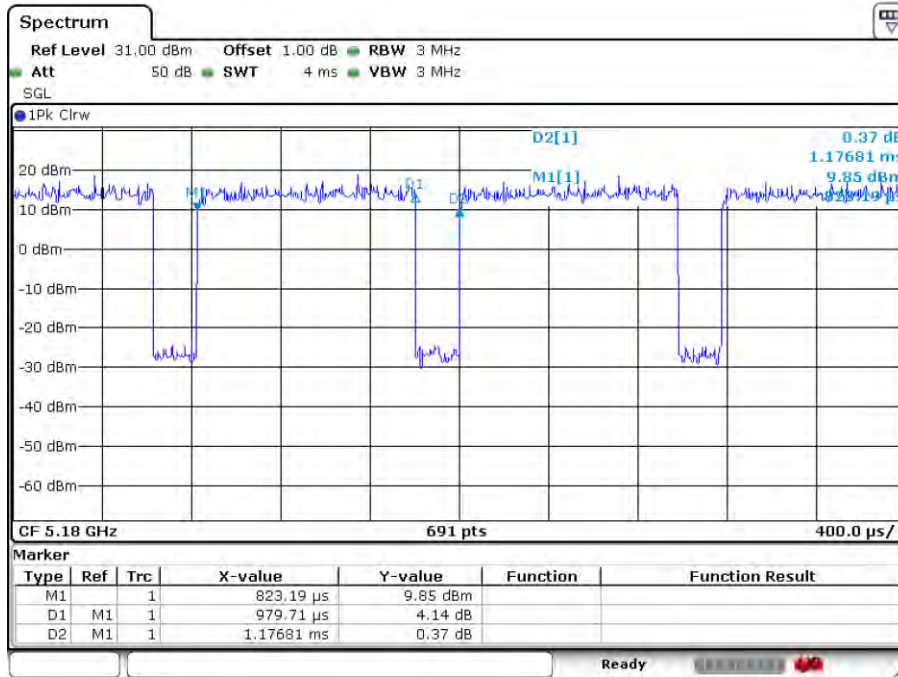
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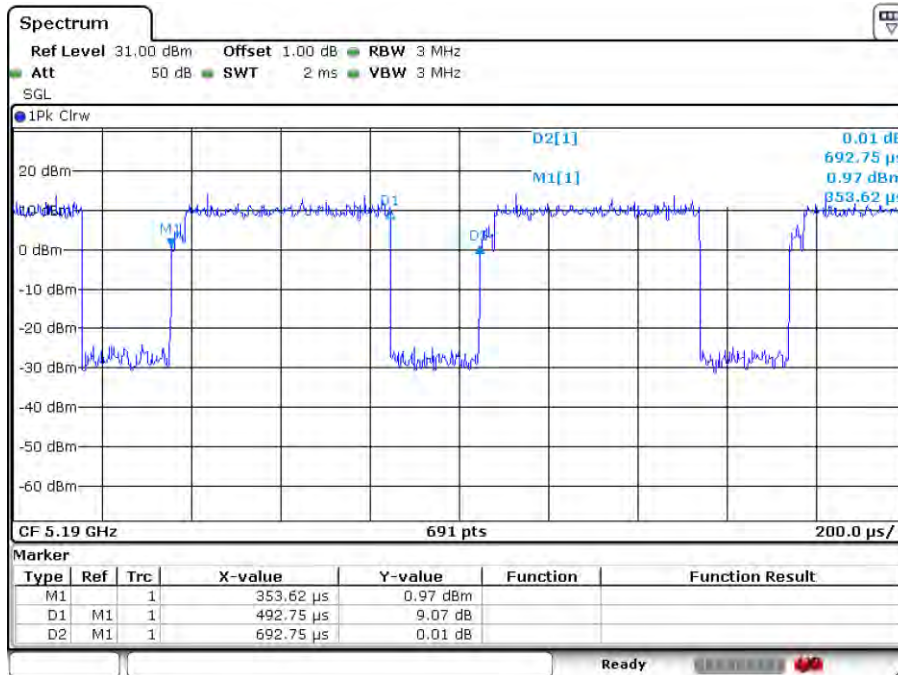


4.3.1.1.4 11AC20



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4.3.1.1.5 11AC40

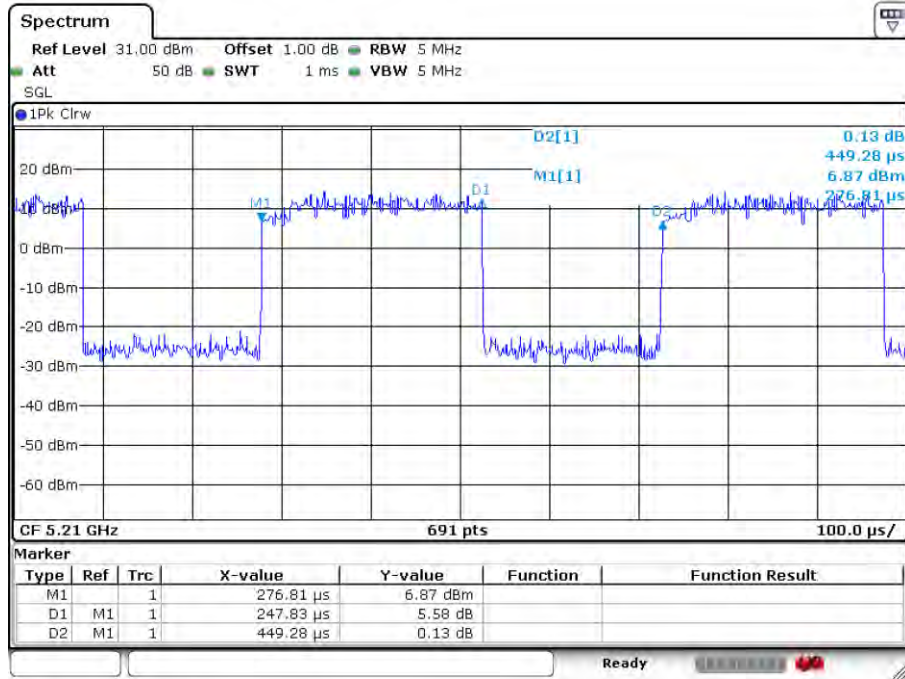


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**4.3.1.1.6 11AC80**

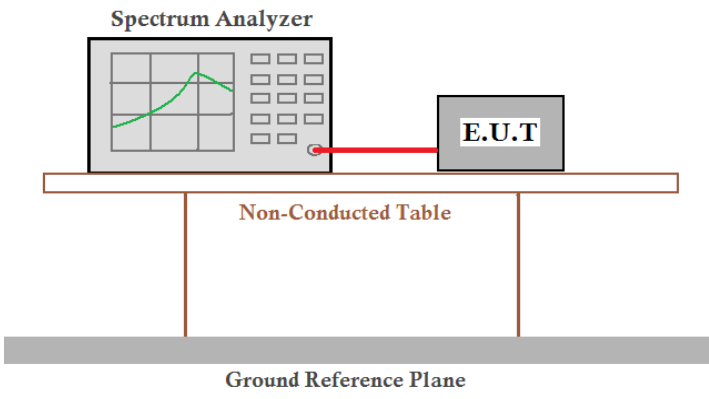


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### 4.4 Conducted Output Power

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





**4.4.1 Test Results for Conducted Output Power**

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP.) [dBm]	Verdict
11A20	36	5180	ANT 1	16.66	20.32	PASS
	40	5220	ANT 1	17.45	21.11	PASS
	48	5240	ANT 1	17.43	21.09	PASS
	52	5260	ANT 1	17.10	20.76	PASS
	60	5300	ANT 1	17.75	21.41	PASS
	64	5320	ANT 1	17.74	21.40	PASS
	100	5500	ANT 1	16.94	20.60	PASS
	140	5700	ANT 1	16.78	20.44	PASS
	144(BandII-C)	5720	ANT 1	16.30	19.96	PASS
	144(BandIII)	5720	ANT 1	10.42	14.08	PASS
	149	5745	ANT 1	16.66	20.32	PASS
	157	5785	ANT 1	17.45	21.11	PASS
	165	5825	ANT 1	17.43	21.09	PASS
11N20	36	5180	ANT 1	16.51	20.17	PASS
	40	5220	ANT 1	17.49	21.15	PASS
	48	5240	ANT 1	17.37	21.03	PASS
	52	5260	ANT 1	17.22	20.88	PASS
	60	5300	ANT 1	17.71	21.37	PASS
	64	5320	ANT 1	17.72	21.38	PASS
	100	5500	ANT 1	16.87	20.53	PASS
	140	5700	ANT 1	16.94	20.60	PASS
	144(BandII-C)	5720	ANT 1	16.33	19.99	PASS
	144(BandIII)	5720	ANT 1	10.76	14.42	PASS
	149	5745	ANT 1	16.51	20.17	PASS
	157	5785	ANT 1	17.49	21.15	PASS
	165	5825	ANT 1	17.37	21.03	PASS
11N40	38	5190	ANT 1	16.99	20.65	PASS
	46	5230	ANT 1	16.88	20.54	PASS
	54	5270	ANT 1	16.78	20.44	PASS
	62	5310	ANT 1	16.79	20.45	PASS
	102	5510	ANT 1	16.72	20.38	PASS
	134	5670	ANT 1	16.59	20.25	PASS
	142(BandII-C)	5710	ANT 1	16.80	20.46	PASS
	142(BandIII)	5710	ANT 1	5.58	9.24	PASS
	151	5755	ANT 1	16.82	20.48	PASS
159	5795	ANT 1	16.88	20.54	PASS	
11AC20	36	5180	ANT 1	16.44	20.10	PASS
	48	5240	ANT 1	17.19	20.85	PASS
	52	5260	ANT 1	17.17	20.83	PASS
	64	5320	ANT 1	16.88	20.54	PASS



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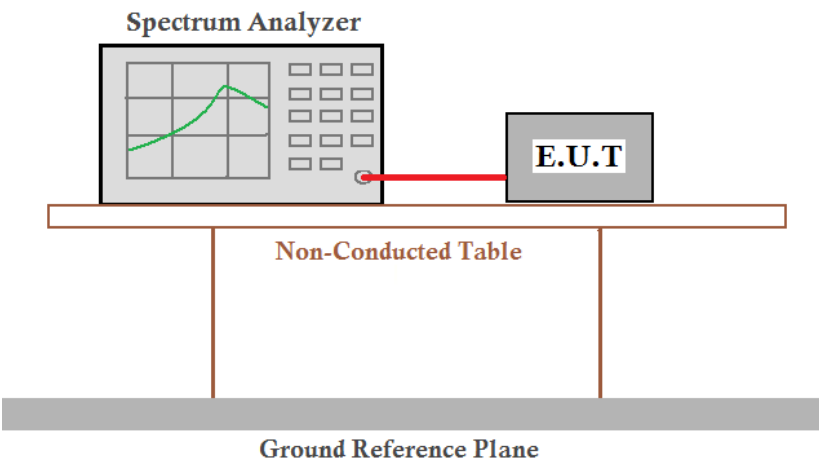
	100	5500	ANT 1	17.39	21.05	PASS
	140	5700	ANT 1	17.44	21.10	PASS
	144(BandII-C)	5720	ANT 1	17.49	21.15	PASS
	144(BandIII)	5720	ANT 1	10.78	14.44	PASS
	149	5745	ANT 1	16.62	20.28	PASS
	165	5825	ANT 1	16.71	20.37	PASS
11AC40	38	5190	ANT 1	16.88	20.54	PASS
	46	5230	ANT 1	17.14	20.80	PASS
	54	5270	ANT 1	17.74	21.40	PASS
	62	5310	ANT 1	17.51	21.17	PASS
	102	5510	ANT 1	18.15	21.81	PASS
	134	5670	ANT 1	17.96	21.62	PASS
	142(BandII-C)	5710	ANT 1	16.84	20.50	PASS
	142(BandIII)	5710	ANT 1	5.49	9.15	PASS
	151	5755	ANT 1	18.12	21.78	PASS
11AC80	159	5795	ANT 1	18.15	21.81	PASS
	42	5210	ANT 1	16.24	19.90	PASS
	58	5290	ANT 1	16.55	20.21	PASS
	106	5530	ANT 1	17.07	20.73	PASS
	138	5690	ANT 1	16.72	20.38	PASS
	138(BandII-C)	5690	ANT 1	16.46	20.12	PASS
	138(BandIII)	5690	ANT 1	-0.70	2.96	PASS
	155	5775	ANT 1	16.84	20.50	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 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass





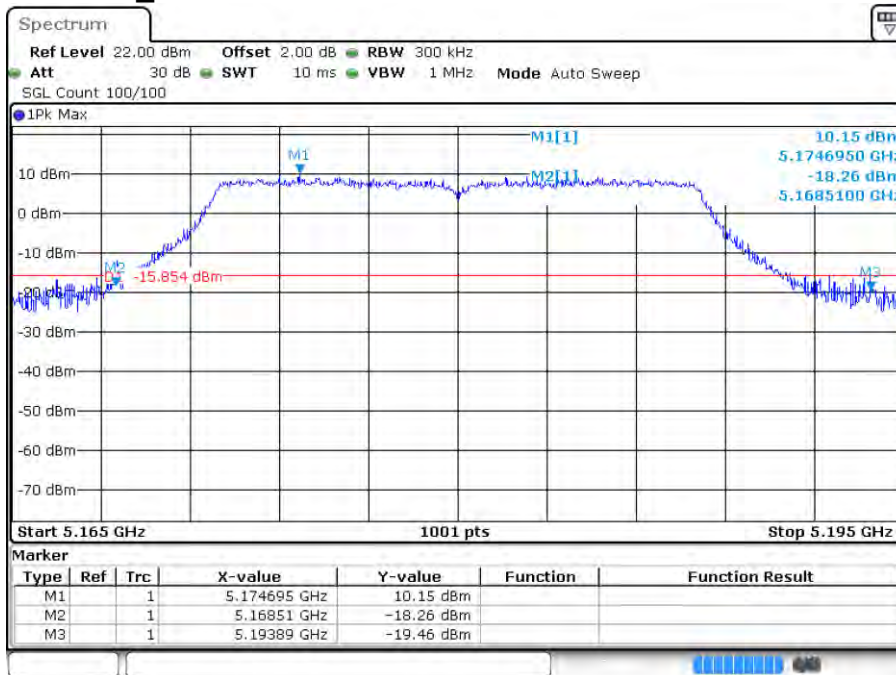
**4.5.1 Test Results for 26dB Emission Bandwidth**

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	25.38	PASS
	48	5240	ANT 1	27.63	PASS
	52	5260	ANT 1	28.89	PASS
	64	5320	ANT 1	27.99	PASS
	100	5500	ANT 1	28.02	PASS
	140	5700	ANT 1	26.01	PASS
	144	5720	ANT 1	17.79	PASS
11N20	36	5180	ANT 1	27.87	PASS
	48	5240	ANT 1	29.40	PASS
	52	5260	ANT 1	29.64	PASS
	64	5320	ANT 1	28.41	PASS
	100	5500	ANT 1	28.32	PASS
	140	5700	ANT 1	26.28	PASS
	144	5720	ANT 1	19.54	PASS
11N40	38	5190	ANT 1	48.36	PASS
	46	5230	ANT 1	48.30	PASS
	54	5270	ANT 1	57.06	PASS
	62	5310	ANT 1	57.42	PASS
	102	5510	ANT 1	55.44	PASS
	134	5670	ANT 1	56.76	PASS
	142	5720	ANT 1	47.37	PASS
11AC20	36	5180	ANT 1	22.26	PASS
	48	5240	ANT 1	28.77	PASS
	52	5260	ANT 1	29.52	PASS
	64	5320	ANT 1	29.43	PASS
	100	5500	ANT 1	27.54	PASS
	140	5700	ANT 1	25.41	PASS
	144	5720	ANT 1	18.67	PASS
11AC40	38	5190	ANT 1	45.96	PASS
	46	5230	ANT 1	48.24	PASS
	54	5270	ANT 1	55.14	PASS
	62	5310	ANT 1	55.14	PASS
	102	5510	ANT 1	55.26	PASS
	134	5670	ANT 1	55.56	PASS
	144	5720	ANT 1	41.45	PASS
11AC80	42	5210	ANT 1	89.60	PASS
	58	5290	ANT 1	122.56	PASS
	138	5690	ANT 1	93.18	PASS



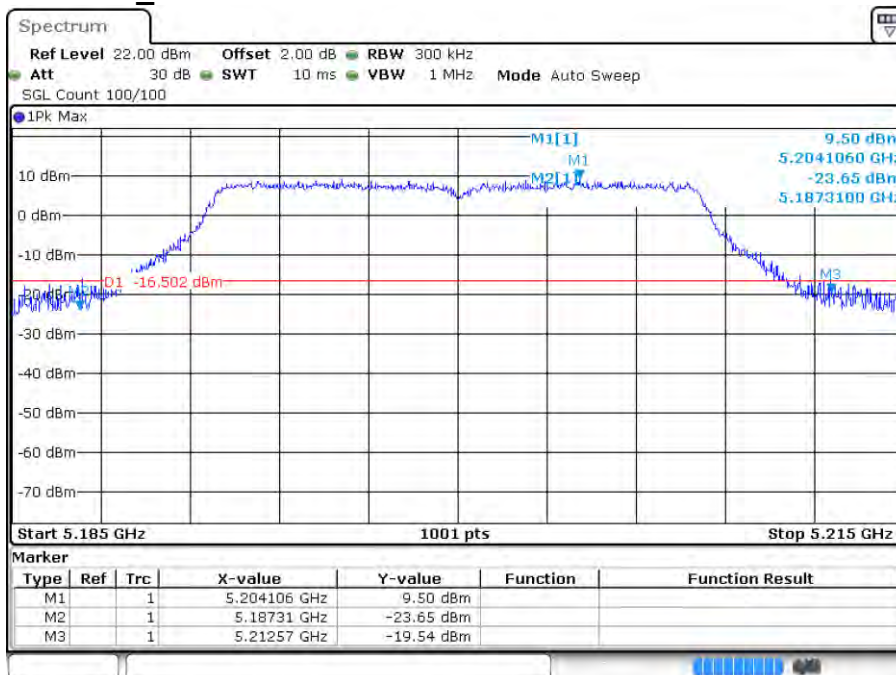
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4.5.2 Plots for 26dB Emission Bandwidth  
4.5.2.1 11A20\_36 ANT 1



Date: 13.MAR.2020 13:11:27

4.5.2.2 11A20\_40 ANT 1



Date: 13.MAR.2020 13:12:22

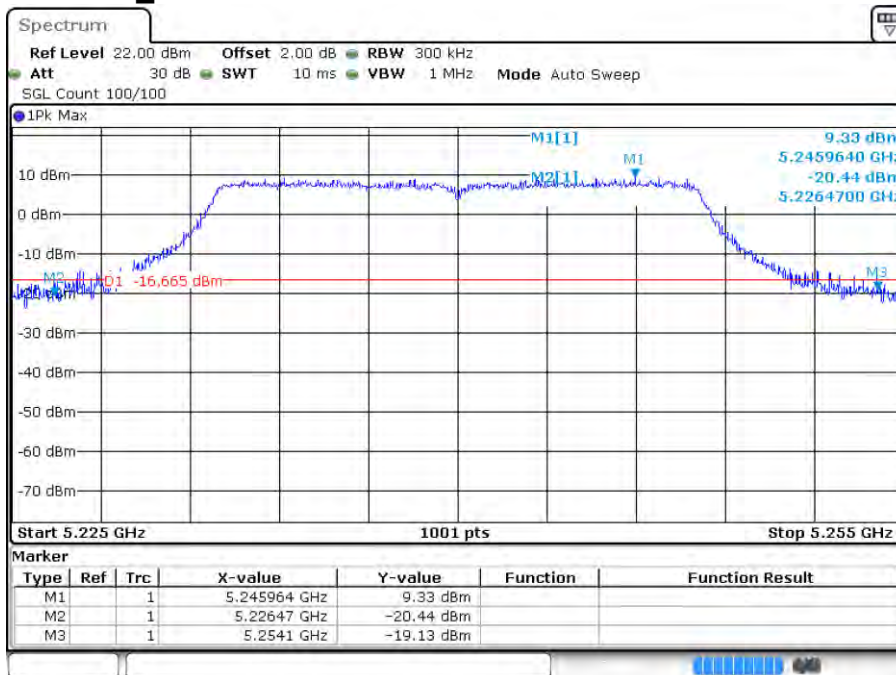


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**4.5.2.3**

**11A20\_48 ANT 1**



Date: 13.MAR.2020 13:15:13

**4.5.2.4**

**11A20\_52 ANT 1**

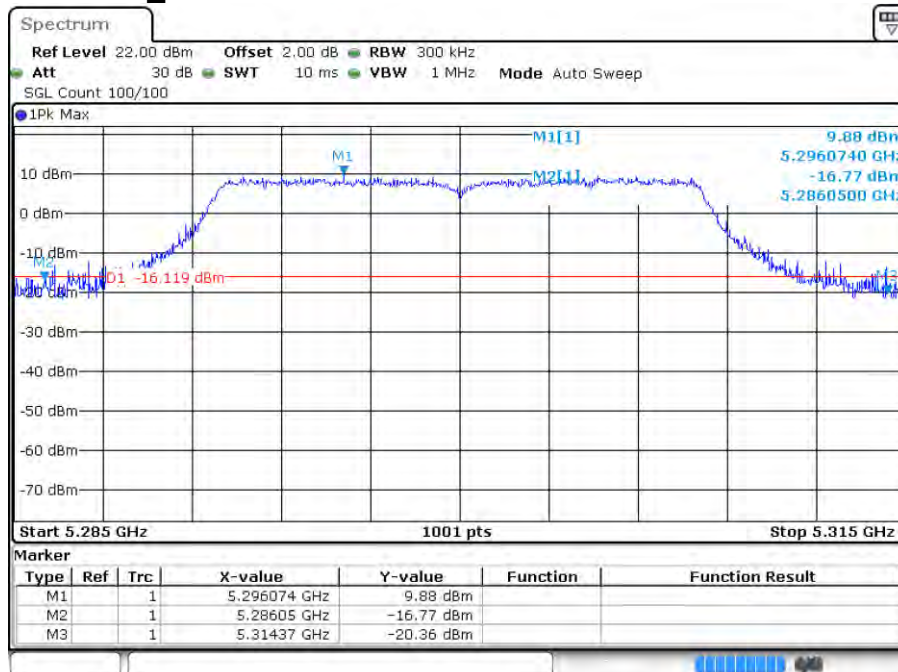


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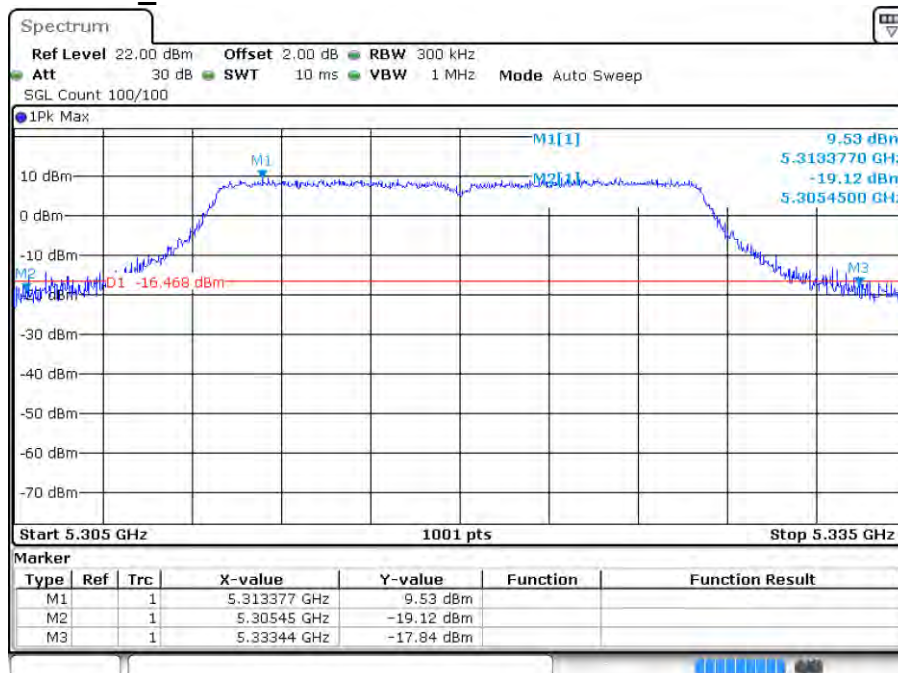
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4.5.2.5 11A20\_60 ANT 1



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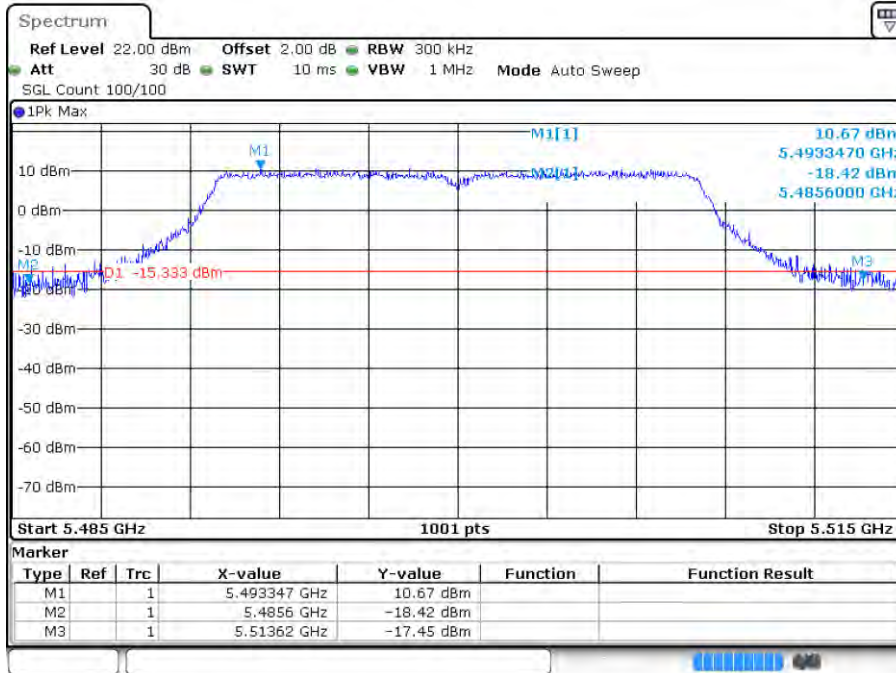
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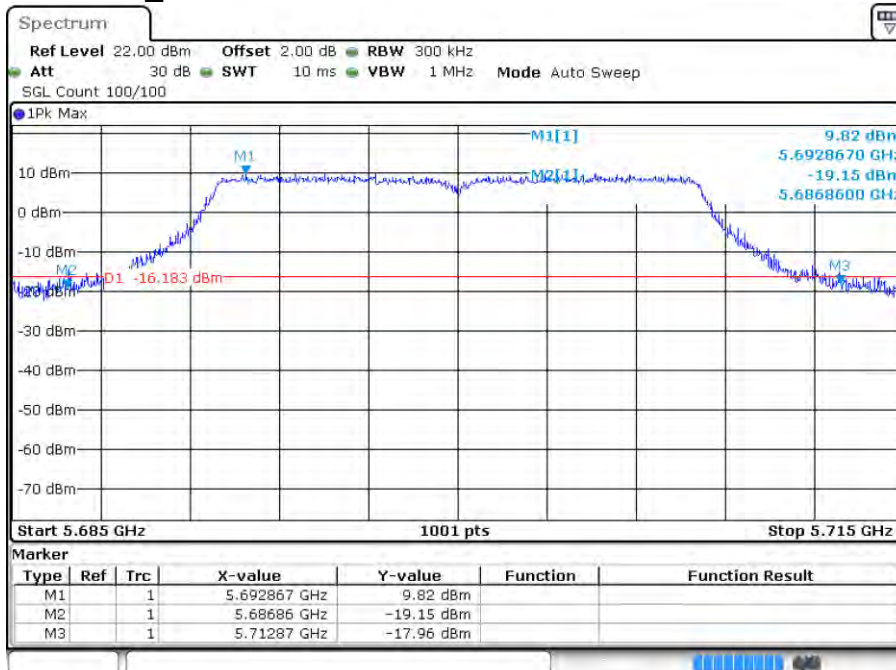


4.5.2.7 11A20\_100 ANT 1



Date: 13.MAR.2020 13:21:27

4.5.2.8 11A20\_140 ANT 1

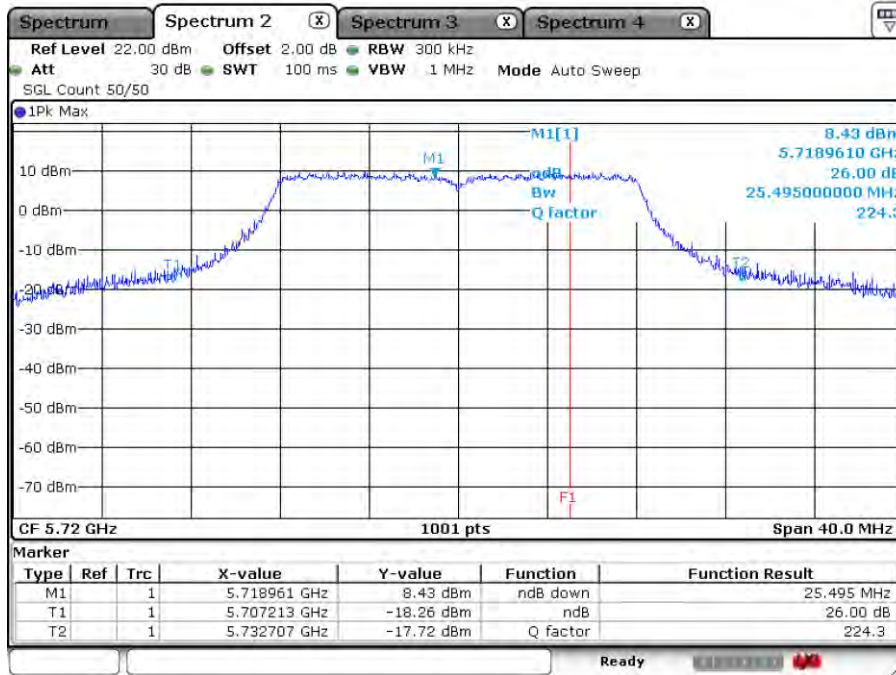


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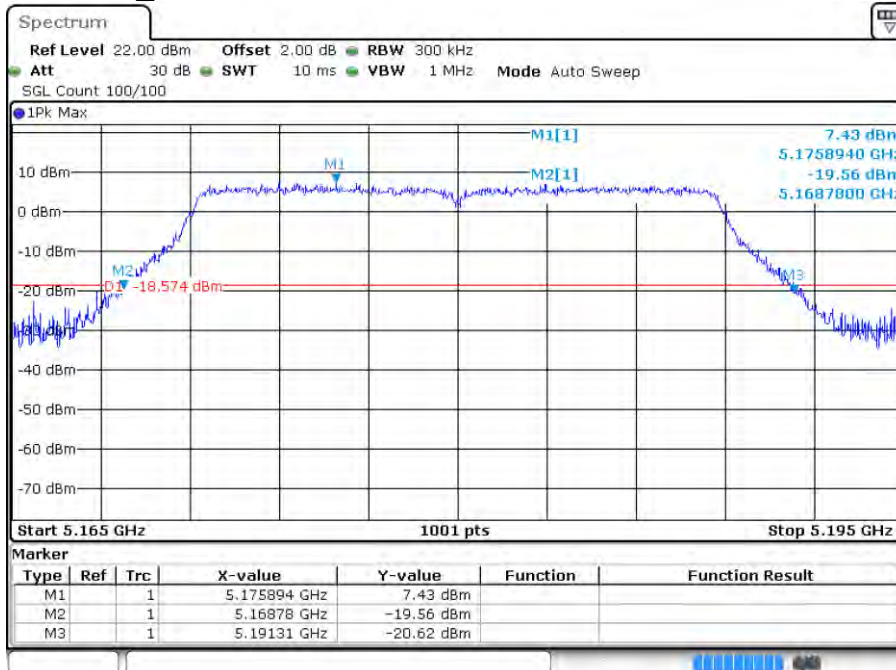


4.5.2.9 11A20\_144 ANT 1



Date: 27. MAR. 2020 08:29:10

4.5.2.10 11N20\_36 ANT 1

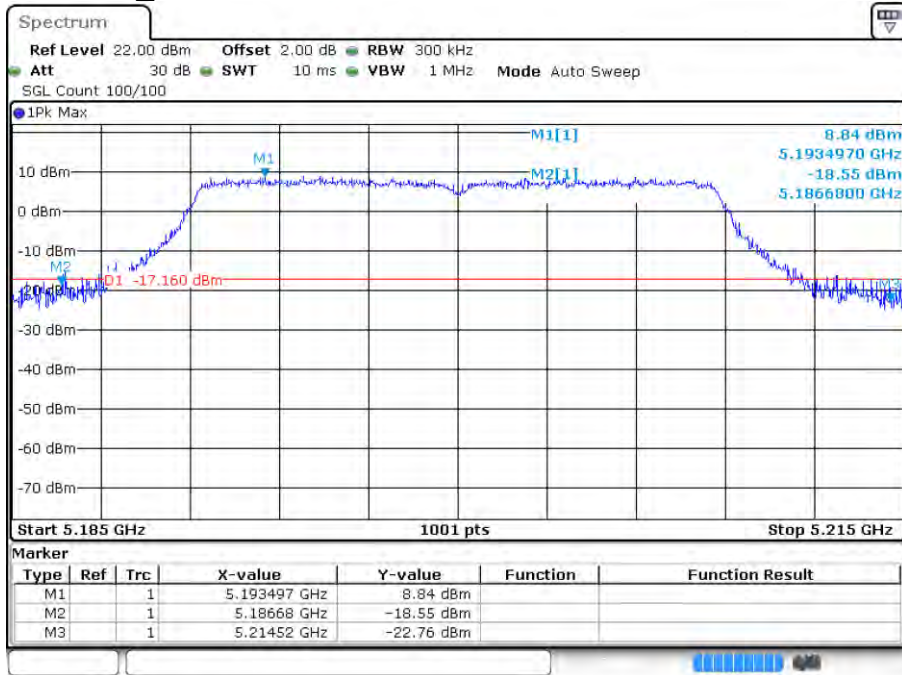


Date: 13. MAR. 2020 13:27:33



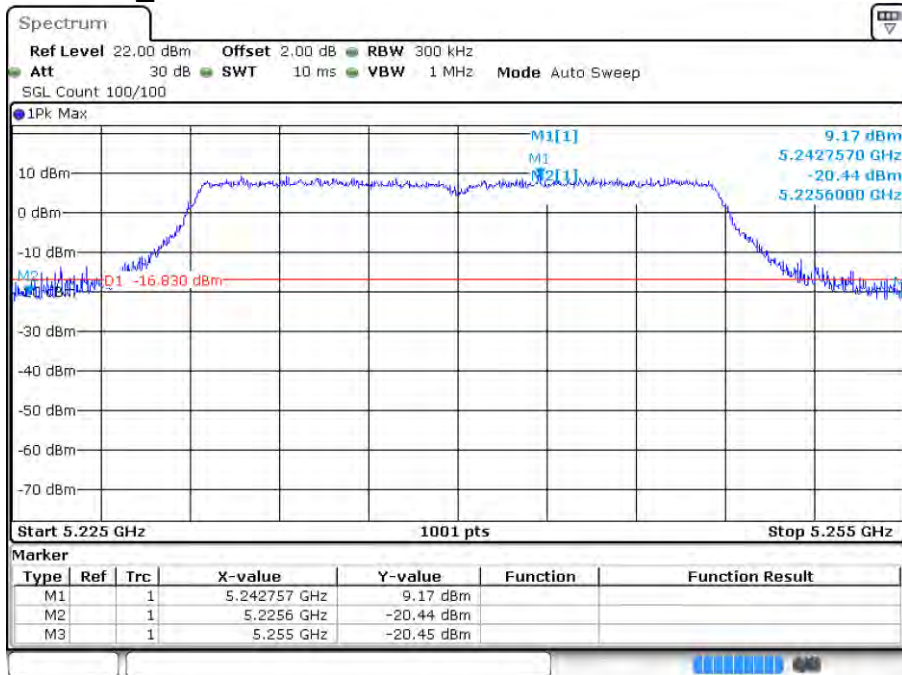


4.5.2.11 11N20\_40 ANT 1



Date: 13.MAR.2020 13:31:36

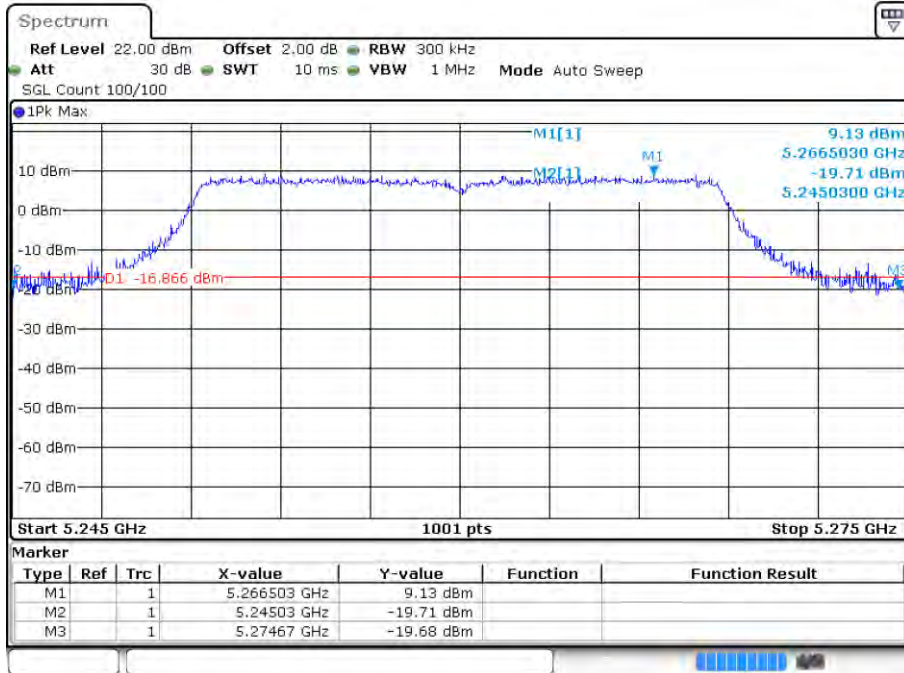
4.5.2.12 11N20\_48 ANT 1



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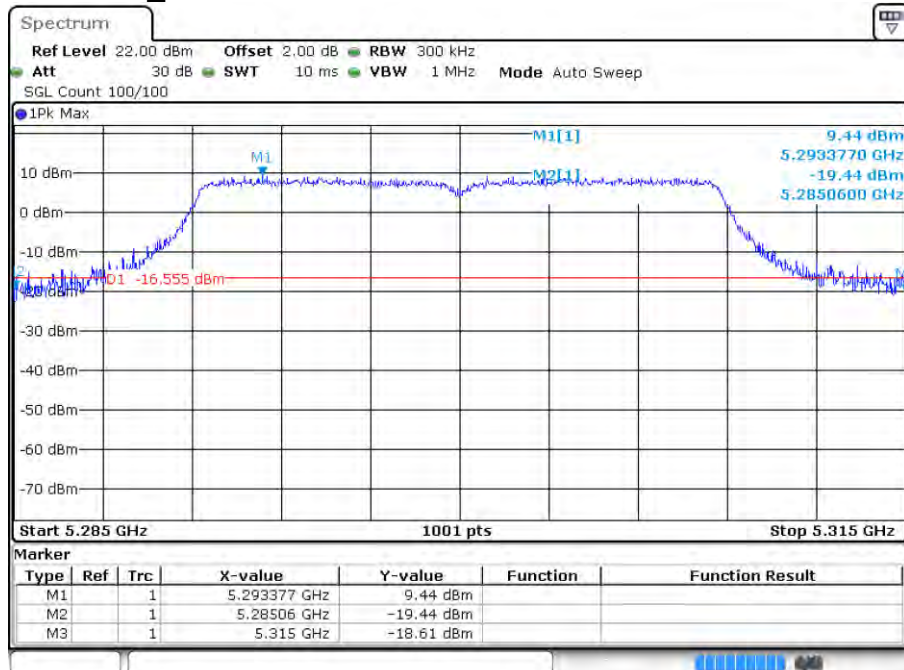


**4.5.2.13 11N20\_52 ANT 1**



Date: 13.MAR.2020 13:34:04

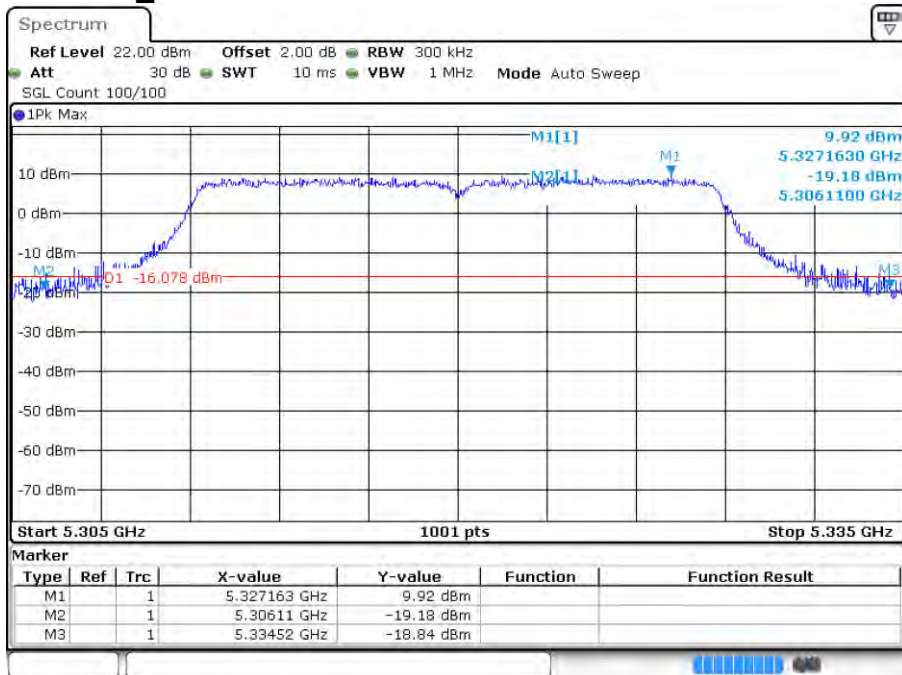
**4.5.2.14 11N20\_60 ANT 1**



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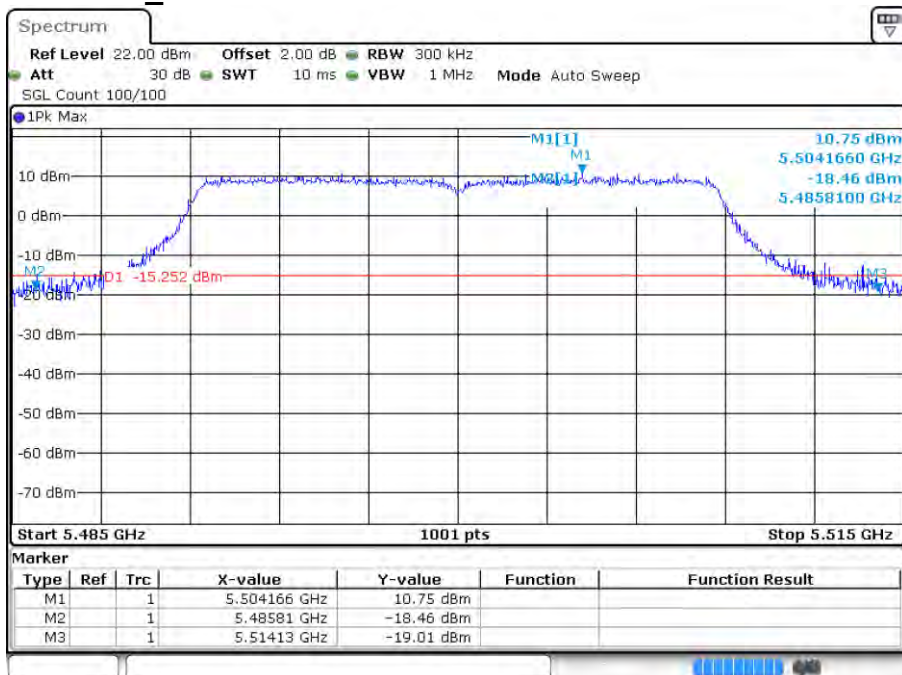


**4.5.2.15 11N20\_64 ANT 1**



Date: 13.MAR.2020 13:36:12

**4.5.2.16 11N20\_100 ANT 1**



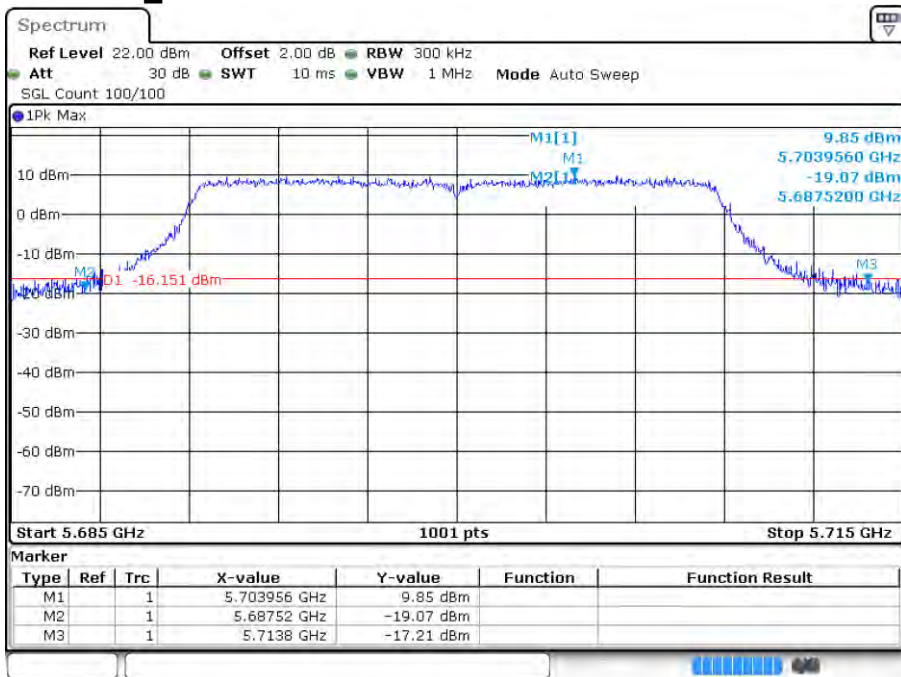
Date: 13.MAR.2020 13:39:18



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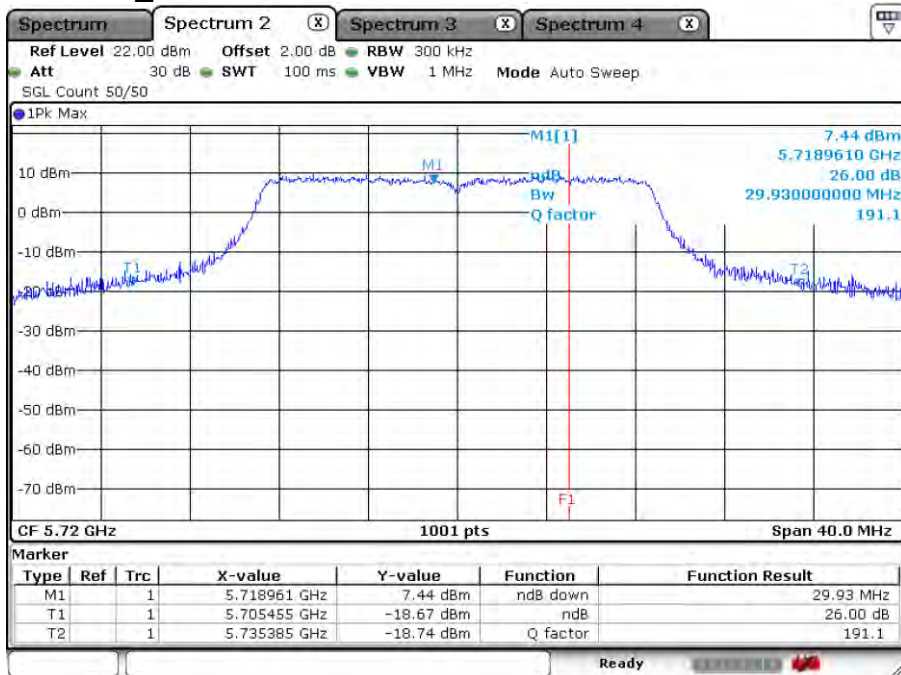
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**4.5.2.17 11N20\_140 ANT 1**



Date: 13.MAR.2020 13:40:32

**4.5.2.18 11N20\_144 ANT 1**



Date: 27.MAR.2020 08:36:47

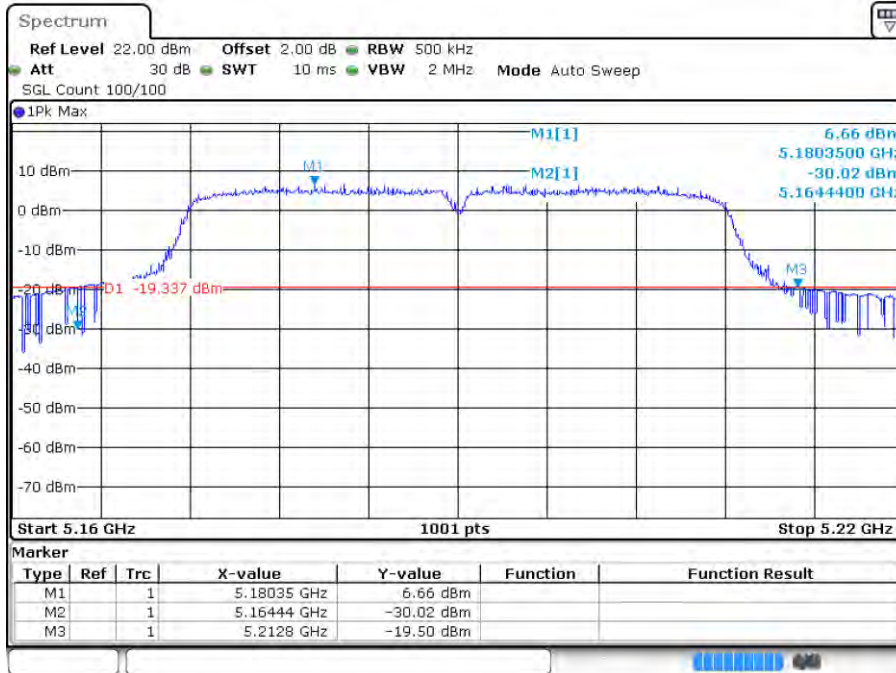


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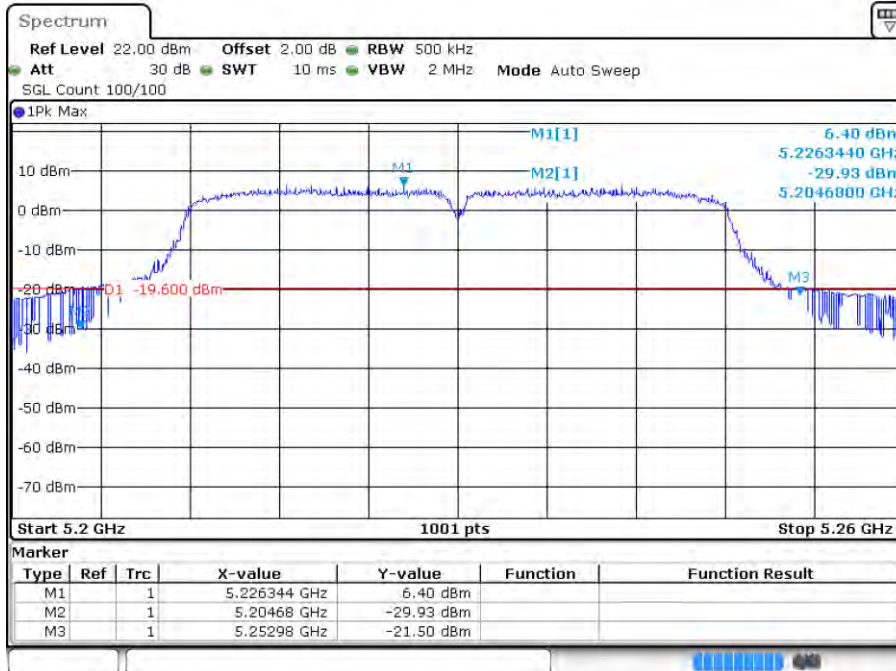


4.5.2.19 11N40\_38 ANT 1



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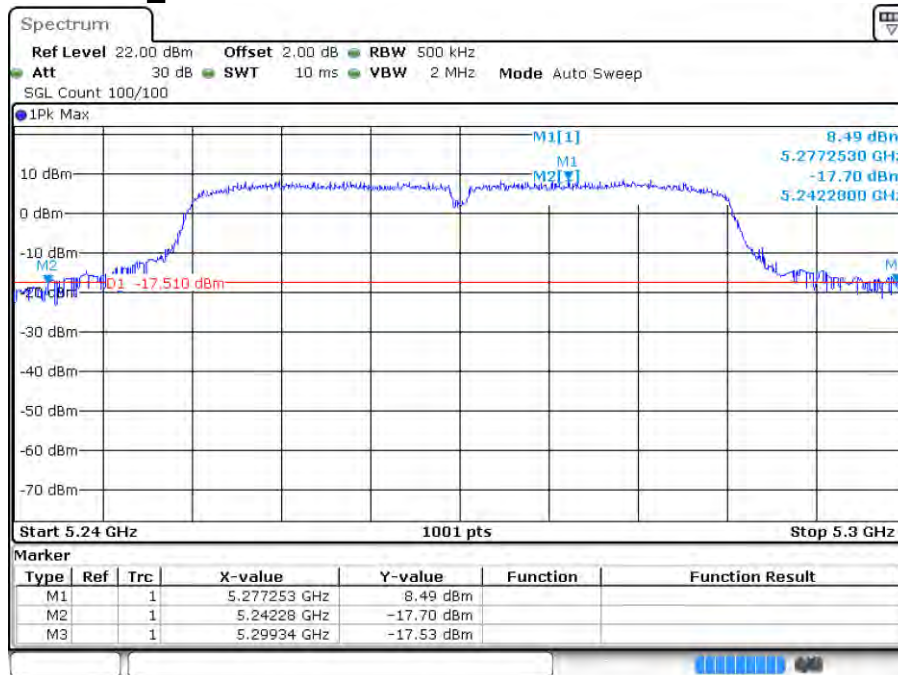
4.5.2.20 11N40\_46 ANT 1



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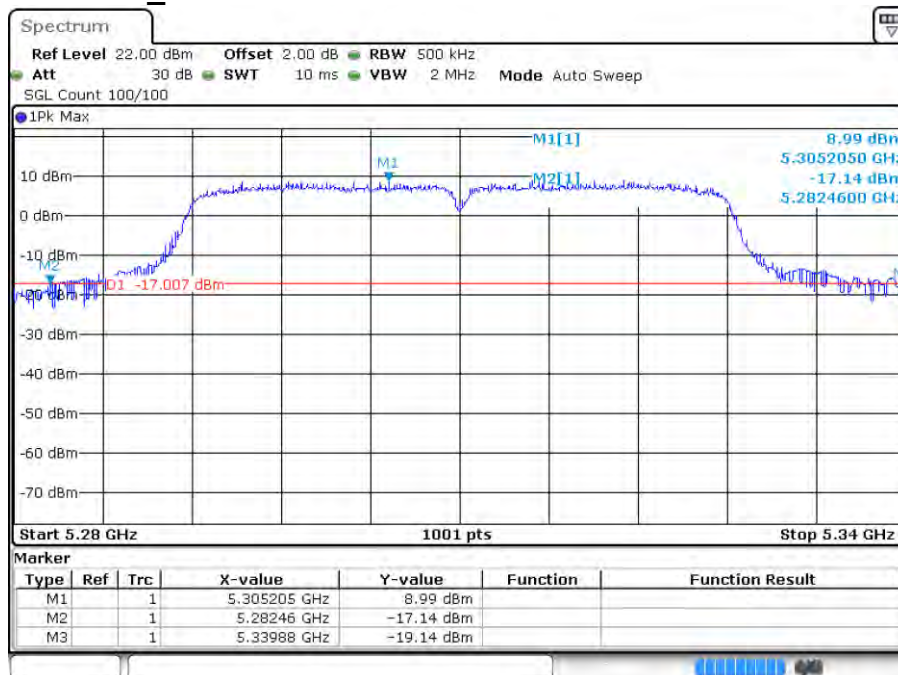


## 4.5.2.21 11N40\_54 ANT 1



Date: 13.MAR.2020 13:59:55

## 4.5.2.22 11N40\_62 ANT 1

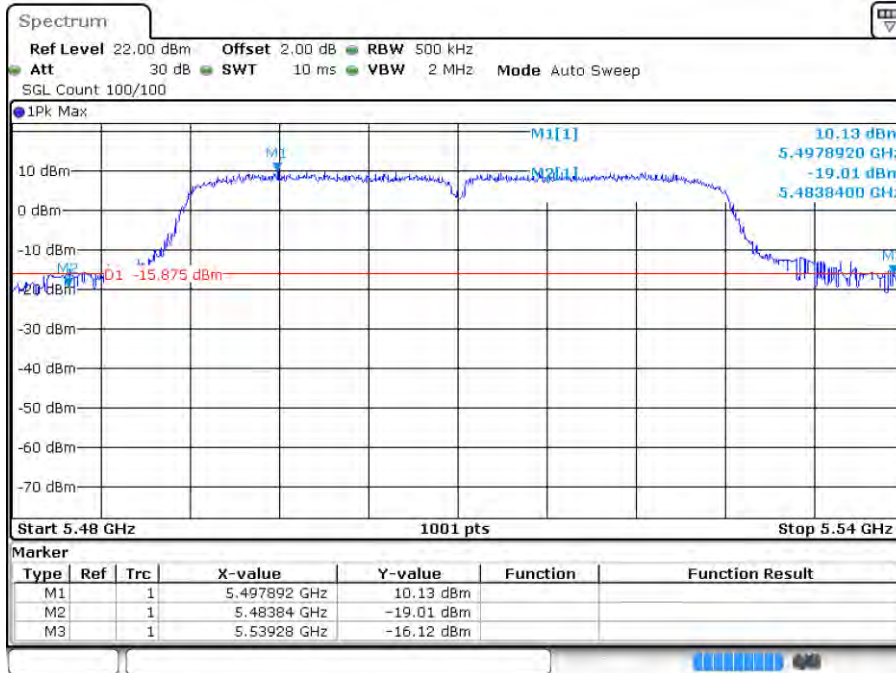


Date: 13.MAR.2020 14:00:47



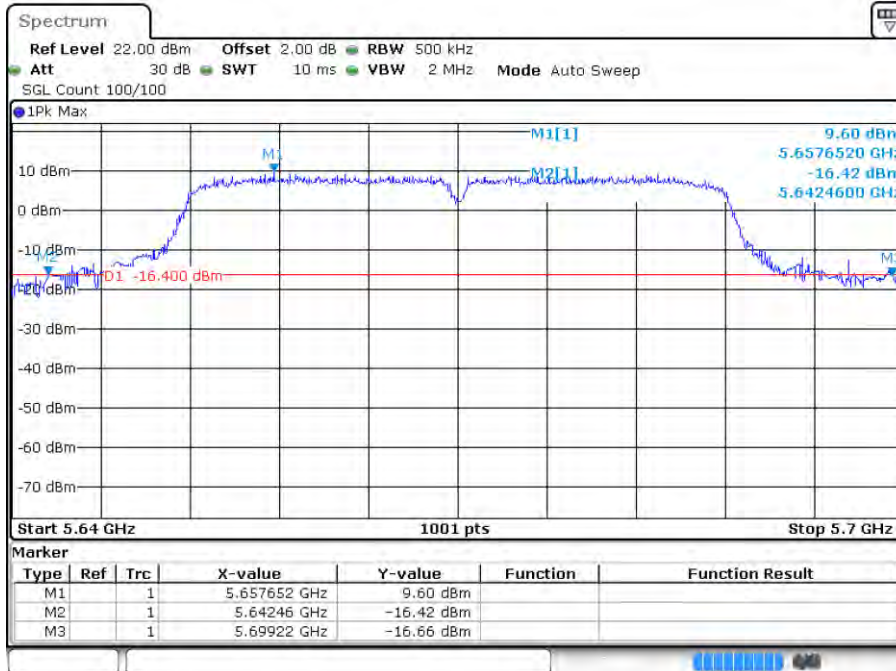


4.5.2.23 11N40\_102 ANT 1



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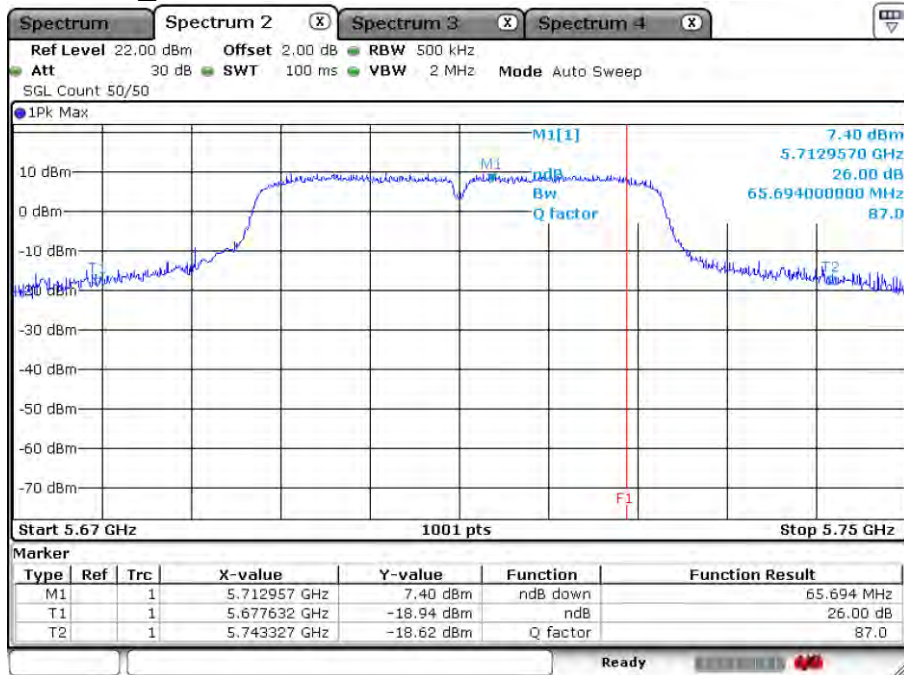
4.5.2.24 11N40\_134 ANT 1



Date: 13.MAR.2020 14:02:50



4.5.2.25 11N40\_142 ANT 1



Date: 27. MAR 2020 08:44:48

4.5.2.26 11AC20\_36 ANT 1



Date: 13. MAR 2020 13:45:39



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4.5.2.27 11AC20\_40 ANT 1



Date: 13.MAR.2020 13:46:49

4.5.2.28 11AC20\_48 ANT 1



Date: 13.MAR.2020 13:47:46

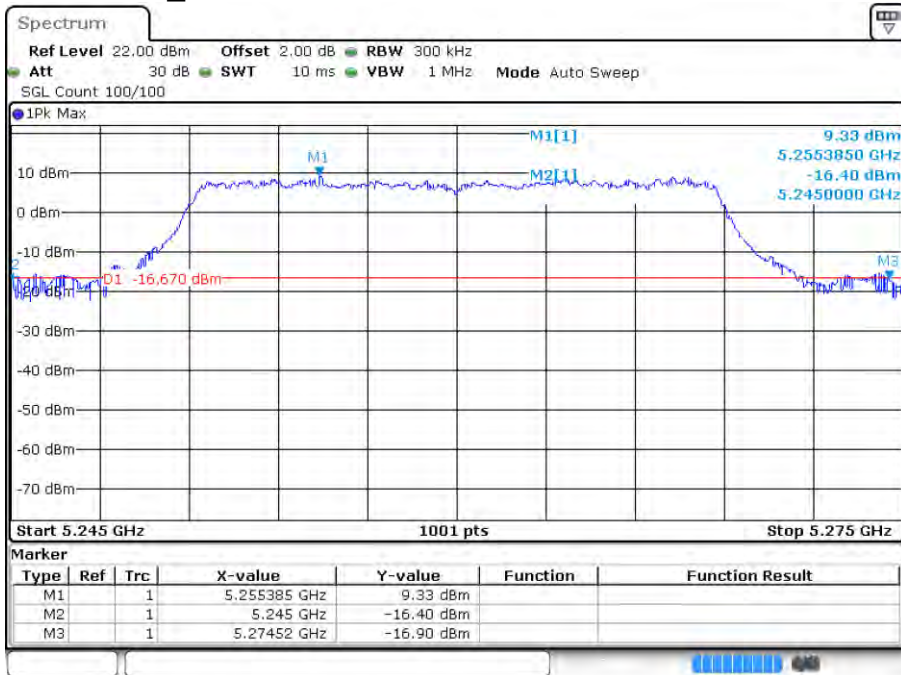


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4.5.2.29

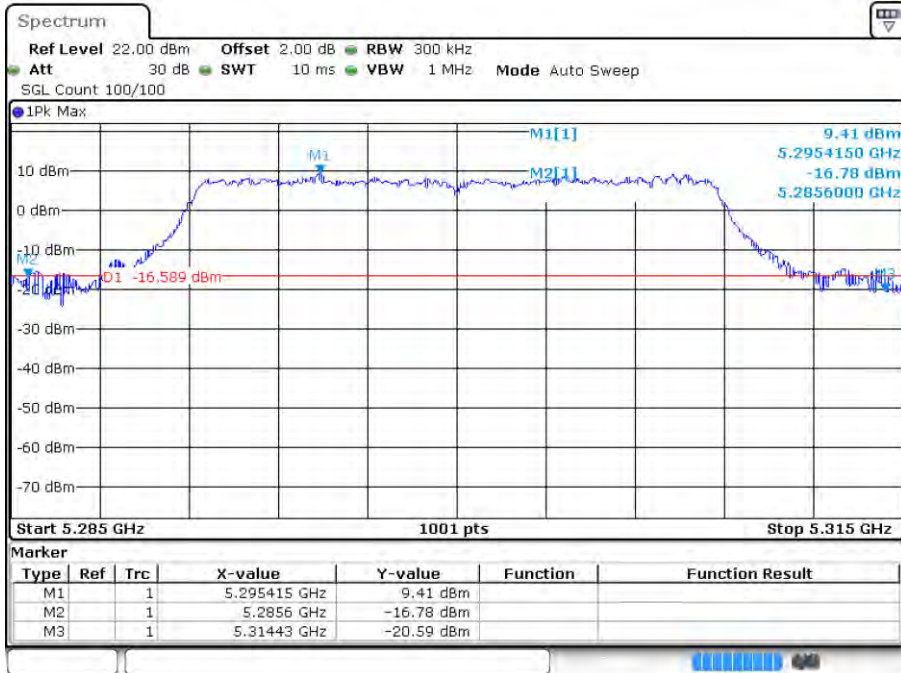
11AC20\_52 ANT 1



Date: 13.MAR.2020 13:48:55

4.5.2.30

11AC20\_60 ANT 1



Date: 13.MAR.2020 13:49:47



**4.5.2.31**

**11AC20\_64 ANT 1**



Date: 13.MAR.2020 13:50:44

**4.5.2.32**

**11AC20\_100 ANT 1**



Date: 13.MAR.2020 13:51:57



4.5.2.33

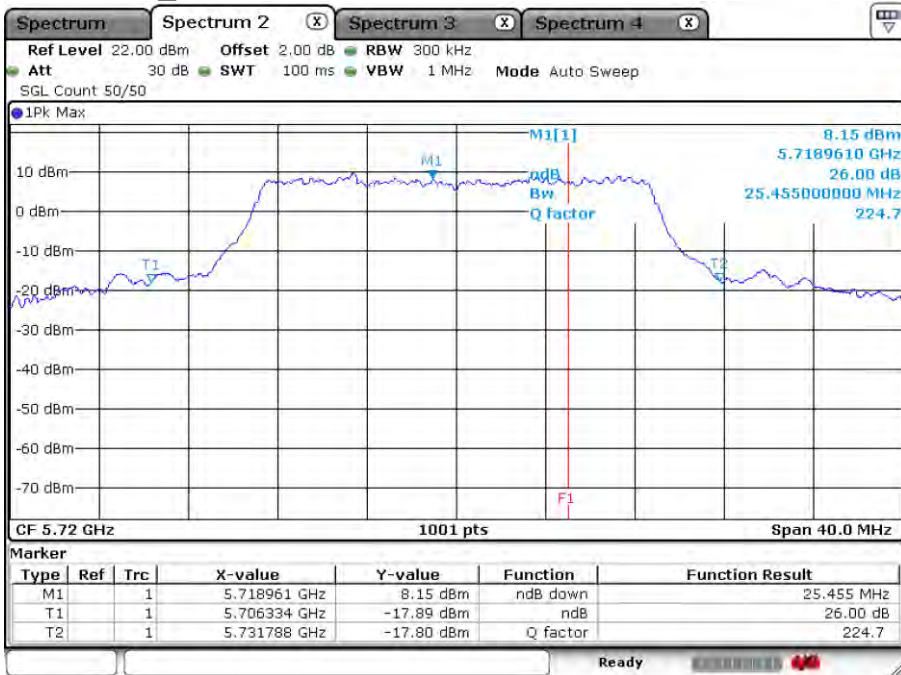
11AC20\_140 ANT 1



Date: 13.MAR.2020 13:52:49

4.5.2.34

11AC20\_144 ANT 1



Date: 27.MAR.2020 08:39:25



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4.5.2.35 11AC40\_38 ANT 1



Date: 13.MAR.2020 14:06:54

4.5.2.36 11AC40\_46 ANT 1



Date: 13.MAR.2020 14:07:51



**4.5.2.37 11AC40\_54 ANT 1**



Date: 13.MAR.2020 14:09:17

**4.5.2.38 11AC40\_62 ANT 1**



Date: 13.MAR.2020 14:10:09

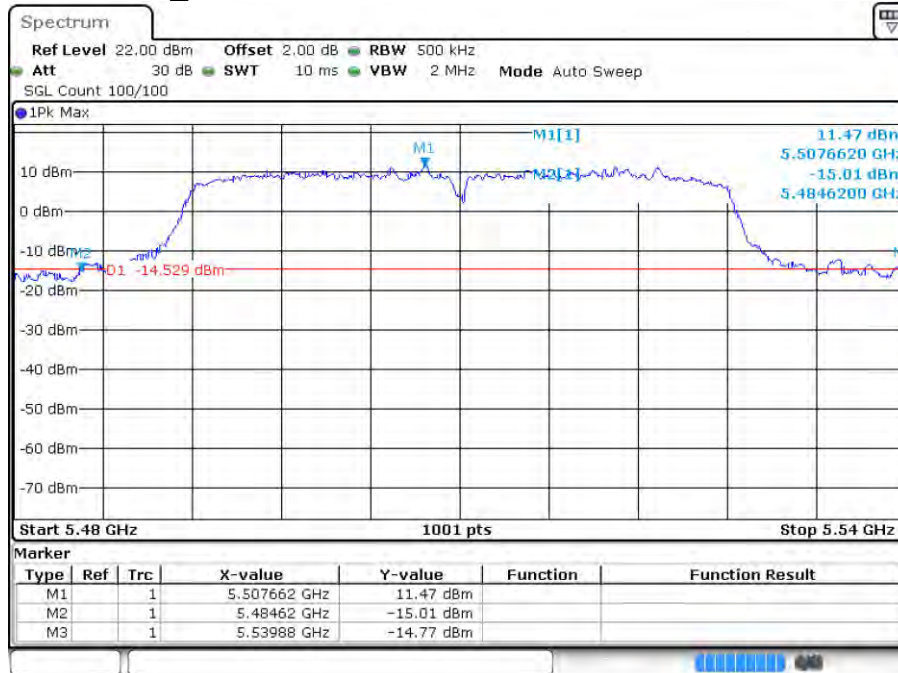


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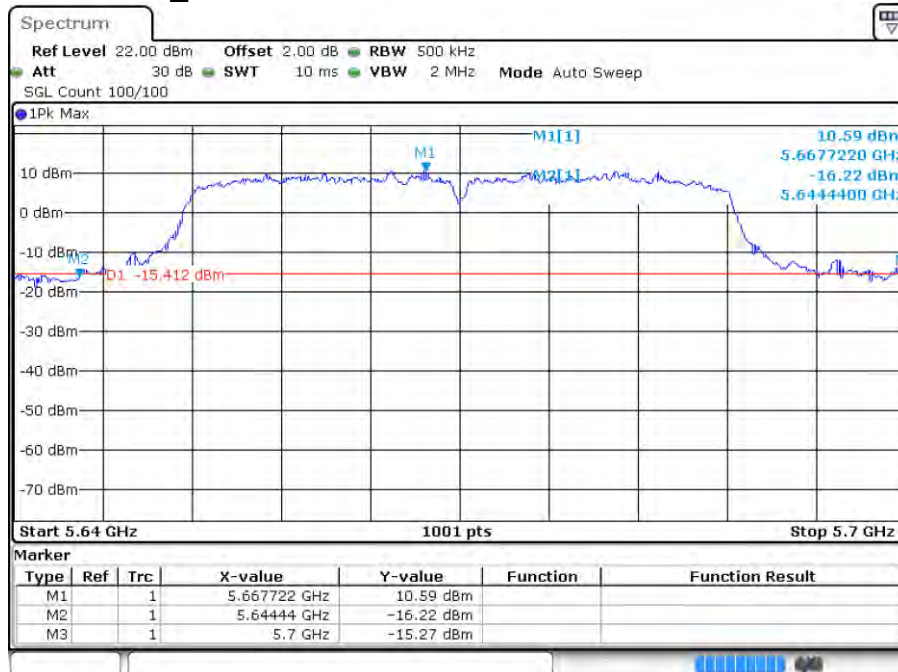


4.5.2.39 11AC40\_102 ANT 1



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4.5.2.40 11AC40\_134 ANT 1



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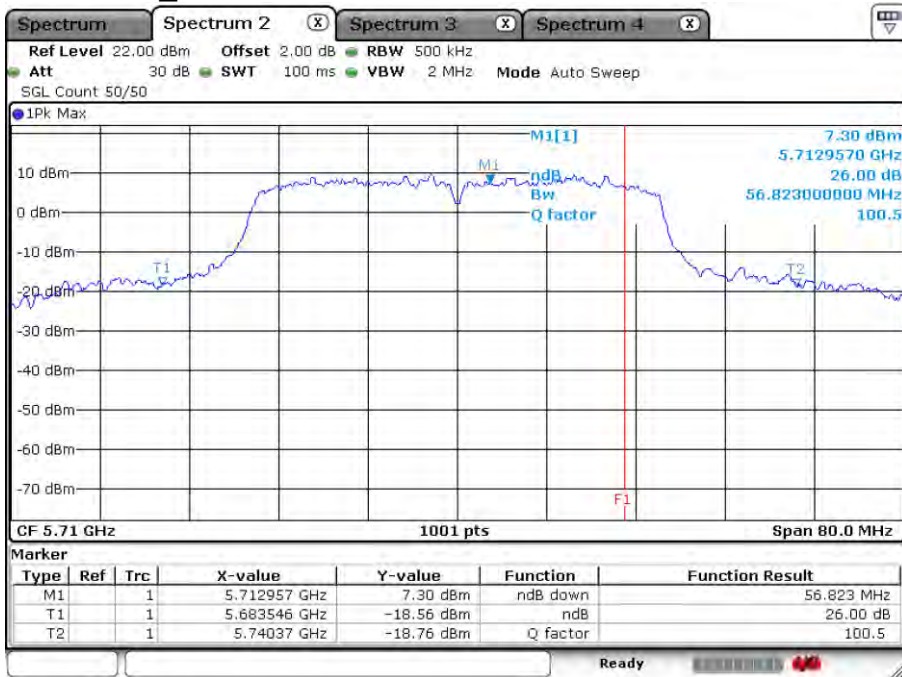


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### 4.5.2.41

### 11AC40\_142 ANT 1



Date: 27.MAR.2020 08:49:23

### 4.5.2.42

### 11AC80\_42 ANT 1



Date: 13.MAR.2020 12:58:07

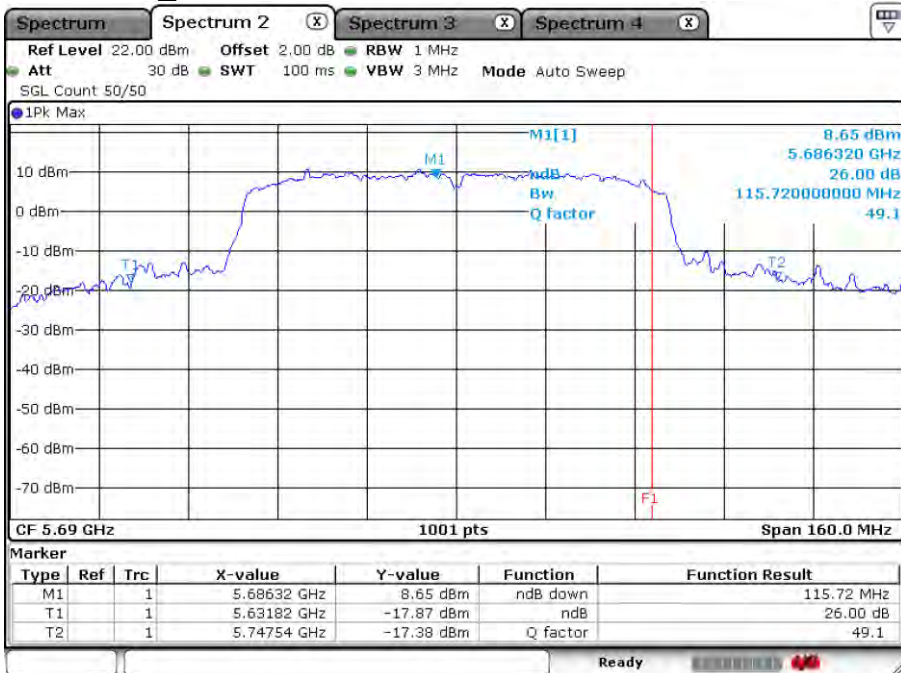


**4.5.2.43 11AC80\_58 ANT 1**



Date: 13.MAR.2020 13:04:12

**4.5.2.44 11AC80\_138 ANT 1**



Date: 27.MAR.2020 08:22:35





### 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 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	



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

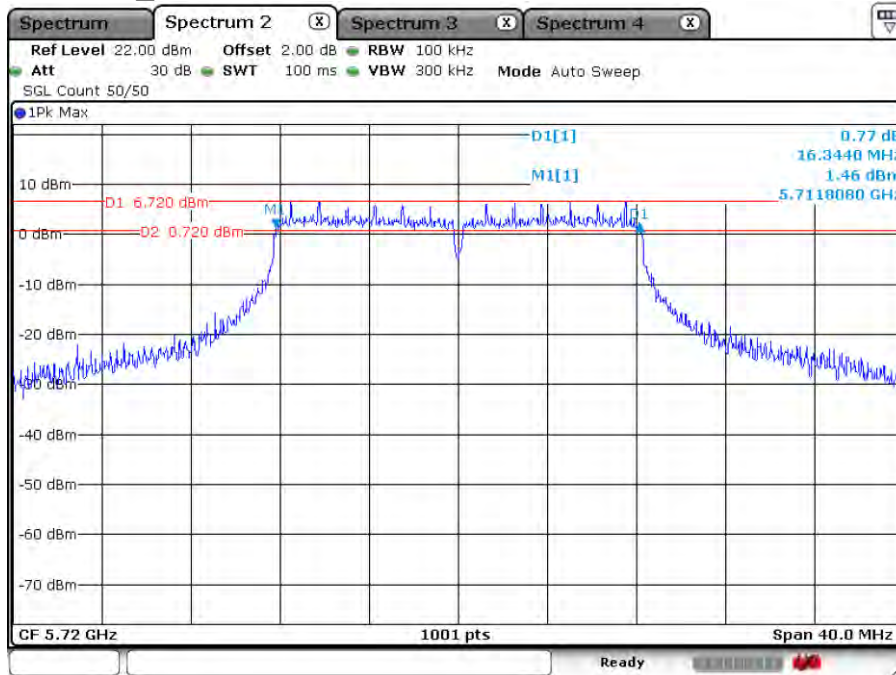
Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Verdict
11A20	144	5720	ANT 1	16.34	PASS
	149	5745	ANT 1	16.41	PASS
	165	5825	ANT 1	16.44	PASS
11N20	144	5720	ANT 1	17.58	PASS
	149	5745	ANT 1	17.67	PASS
	165	5825	ANT 1	17.64	PASS
11N40	142	5710	ANT 1	34.78	PASS
	151	5755	ANT 1	35.46	PASS
	159	5795	ANT 1	35.58	PASS
11AC20	144	5720	ANT 1	17.62	PASS
	149	5745	ANT 1	17.64	PASS
	165	5825	ANT 1	17.64	PASS
11AC40	142	5710	ANT 1	35.34	PASS
	151	5755	ANT 1	35.28	PASS
	159	5795	ANT 1	35.28	PASS
11AC80	138	5690	ANT 1	75.12	PASS
	155	5775	ANT 1	75.52	PASS



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4.6.2 Plots for 6dB Emission Bandwidth  
4.6.2.1 11A20\_144 ANT 1



Date: 27. MAR. 2020 09:08:52

4.6.2.2 11A20\_149 ANT 1



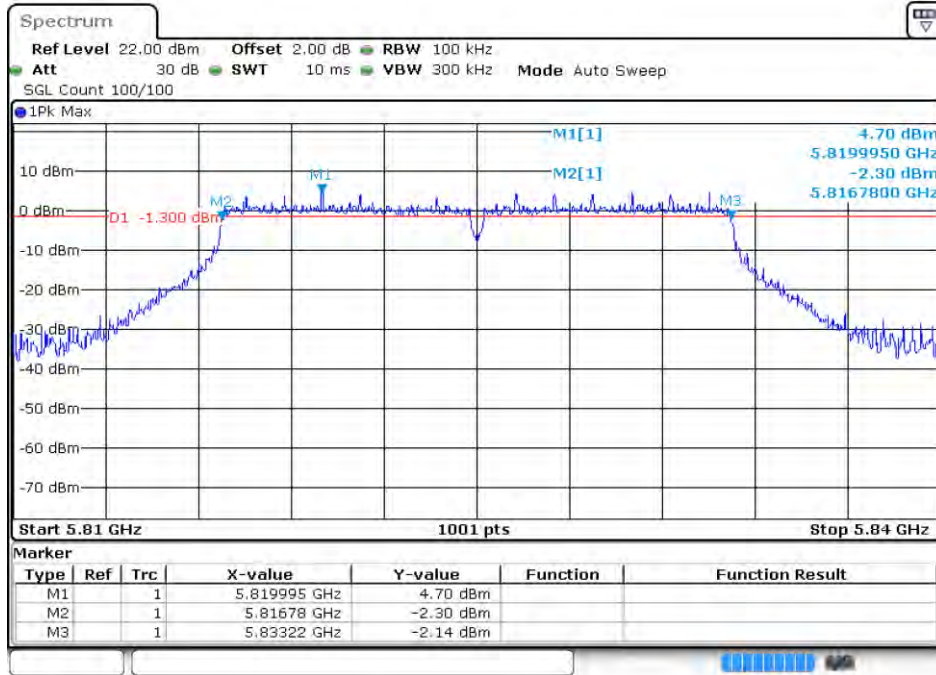
Date: 13. MAR. 2020 13:23:46





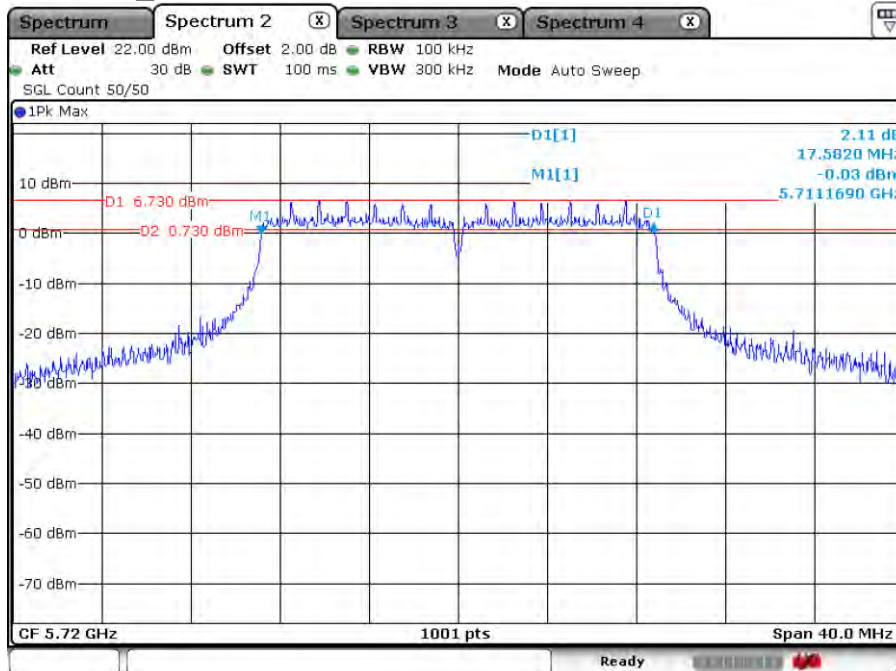


4.6.2.3 11A20\_165 ANT 1



Date: 13.MAR.2020 13:25:56

4.6.2.4 11N20\_144 ANT 1



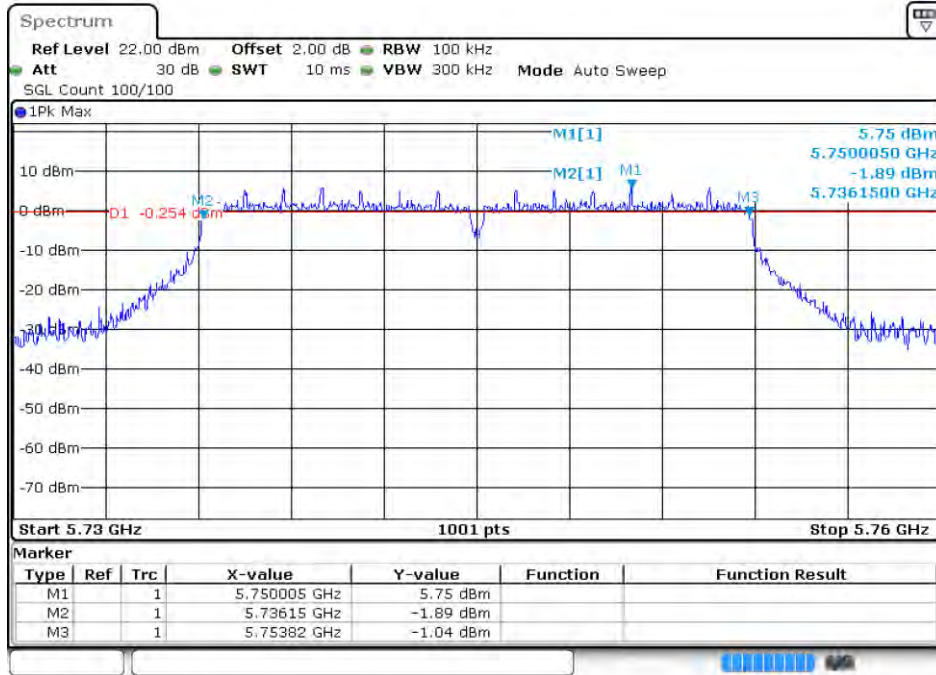
Date: 27.MAR.2020 09:10:34



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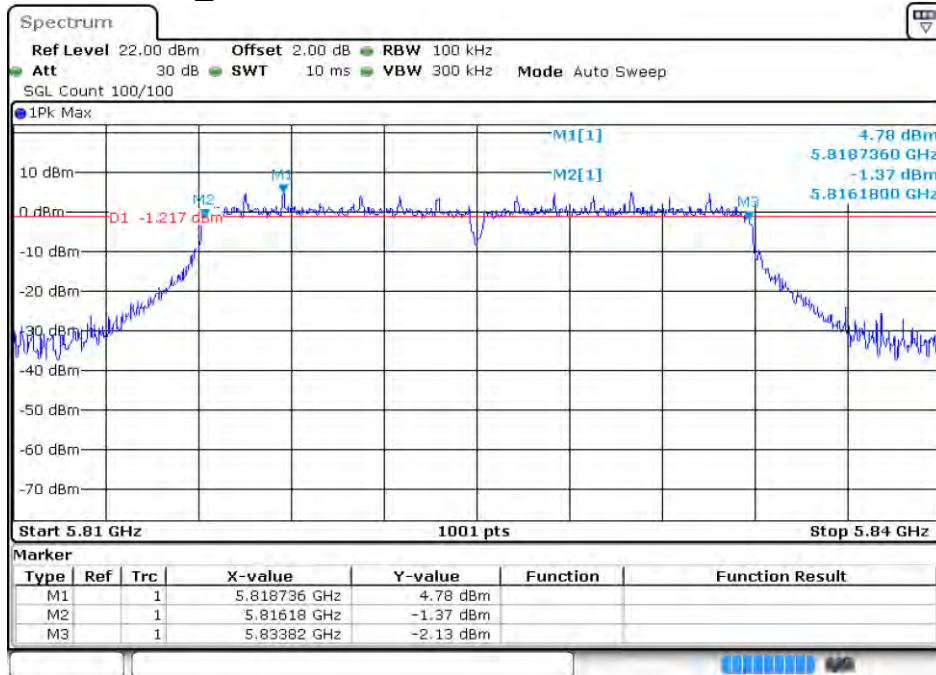


4.6.2.5 11N20\_149 ANT 1



Date: 13.MAR.2020 13:42:00

4.6.2.6 11N20\_165 ANT 1

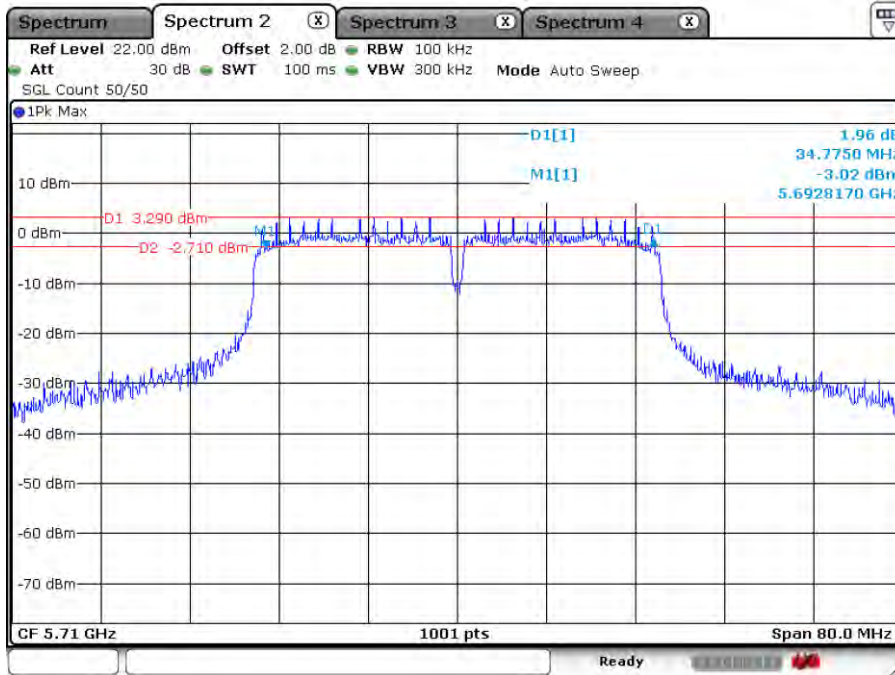


Date: 13.MAR.2020 13:43:59



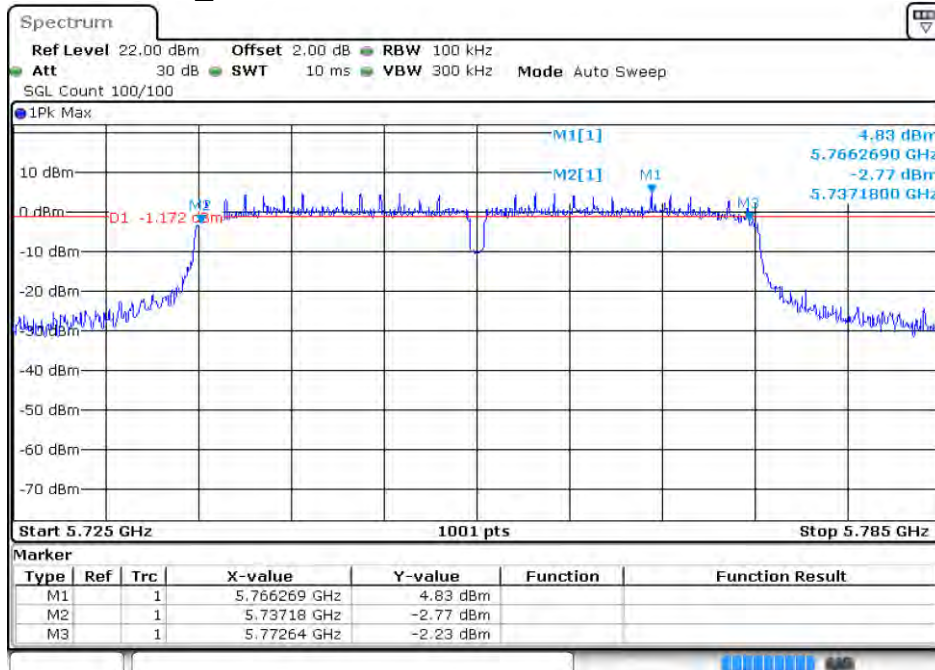
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4.6.2.7 11N40\_142 ANT 1



Date: 27. MAR. 2020 09:19:21

4.6.2.8 11N40\_151 ANT 1

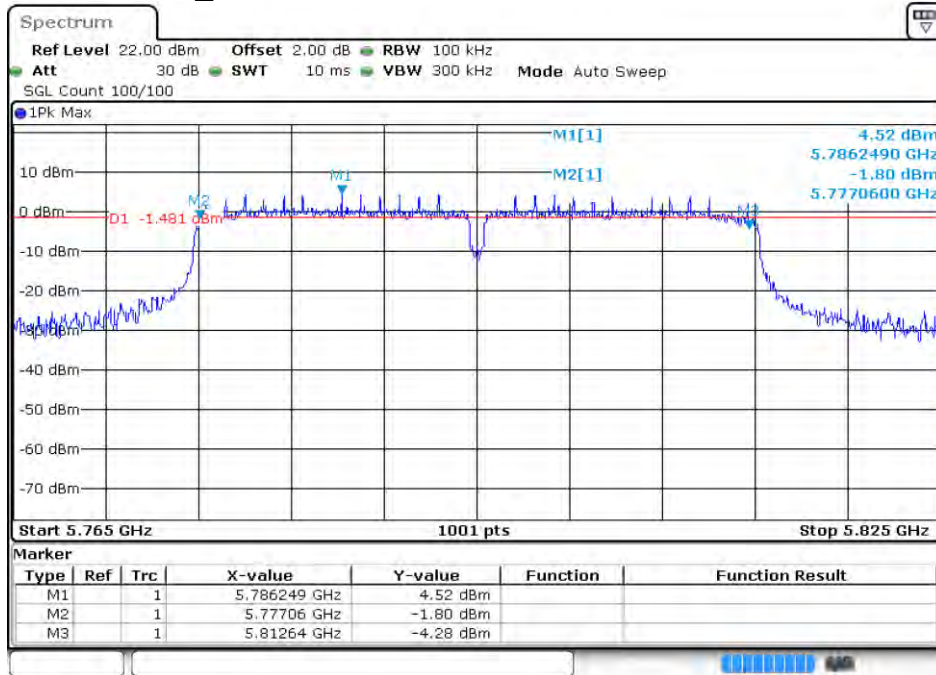


Date: 13. MAR. 2020 14:03:58



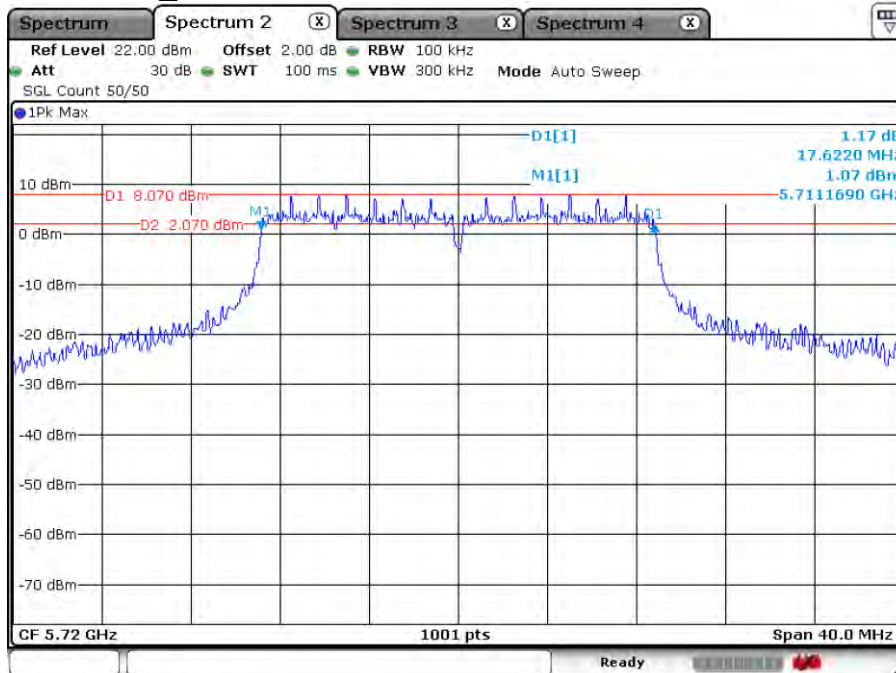


4.6.2.9 11N40\_159 ANT 1



Date: 13.MAR.2020 14:04:56

4.6.2.10 11AC20\_144 ANT 1



Date: 27.MAR.2020 09:12:03



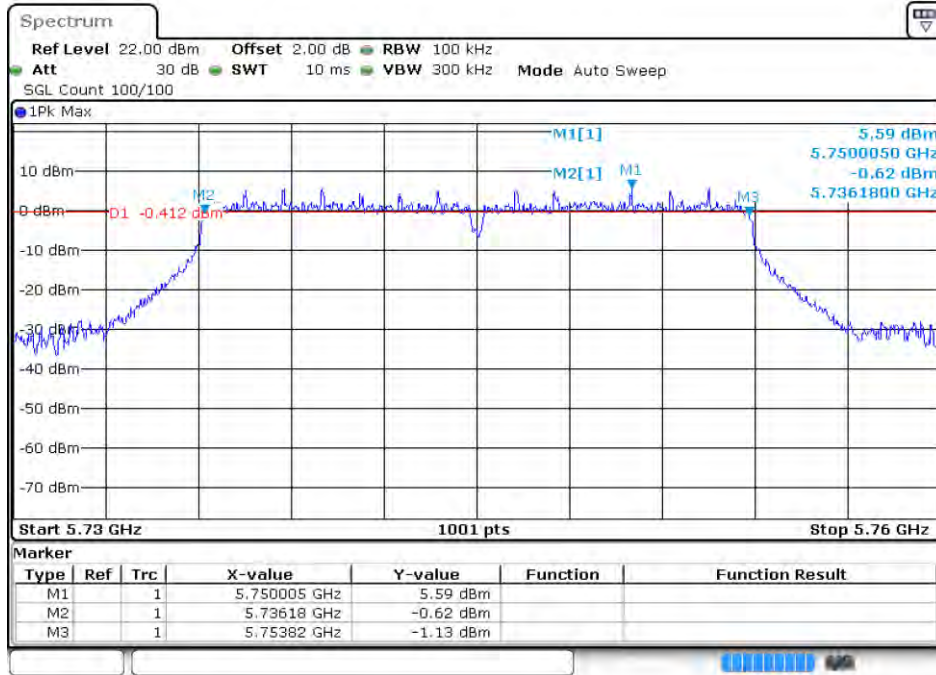
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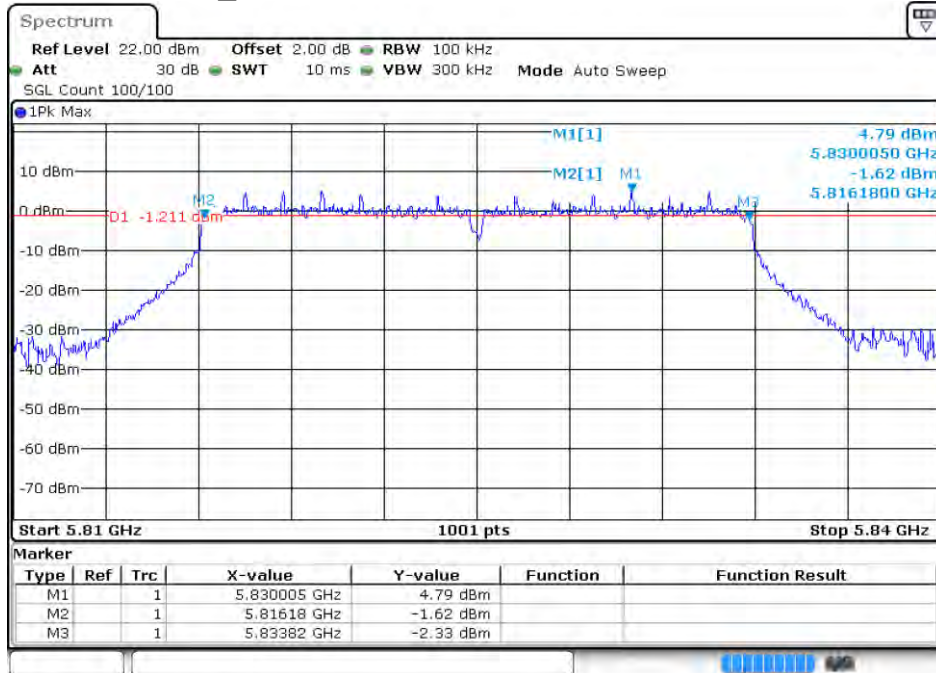


4.6.2.11 11AC20\_149 ANT 1



Date: 13.MAR.2020 13:53:59

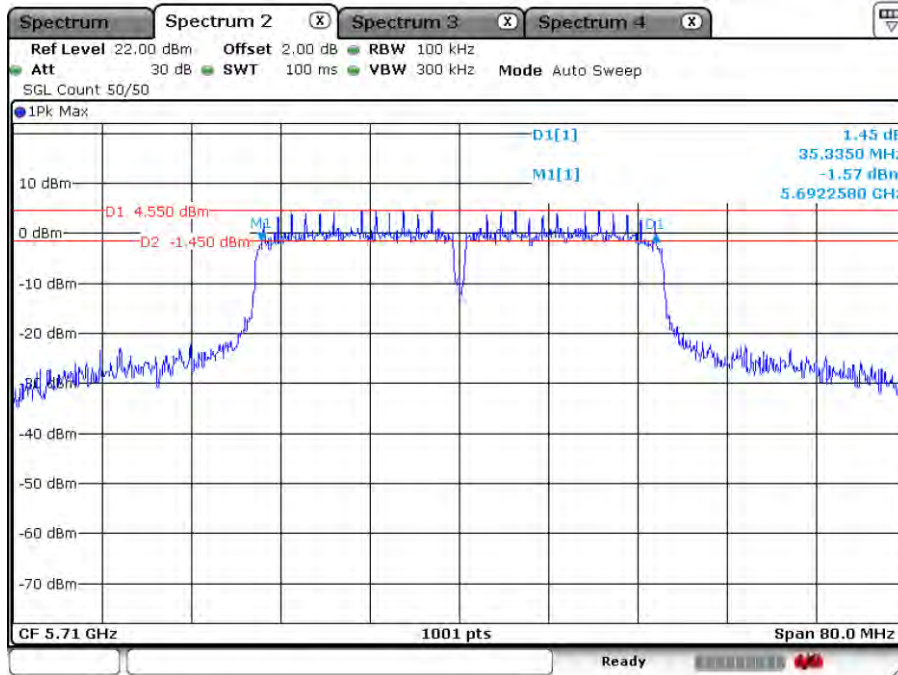
4.6.2.12 11AC20\_165 ANT 1



Date: 13.MAR.2020 13:55:58

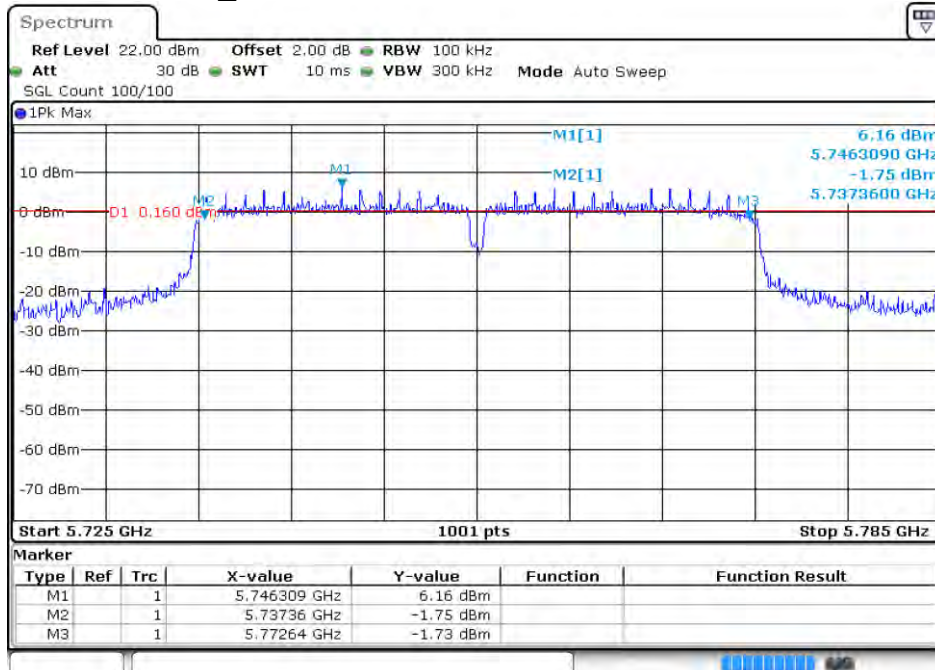


4.6.2.13 11AC40\_142 ANT 1



Date: 27.MAR.2020 09:21:09

4.6.2.14 11AC40\_151 ANT 1

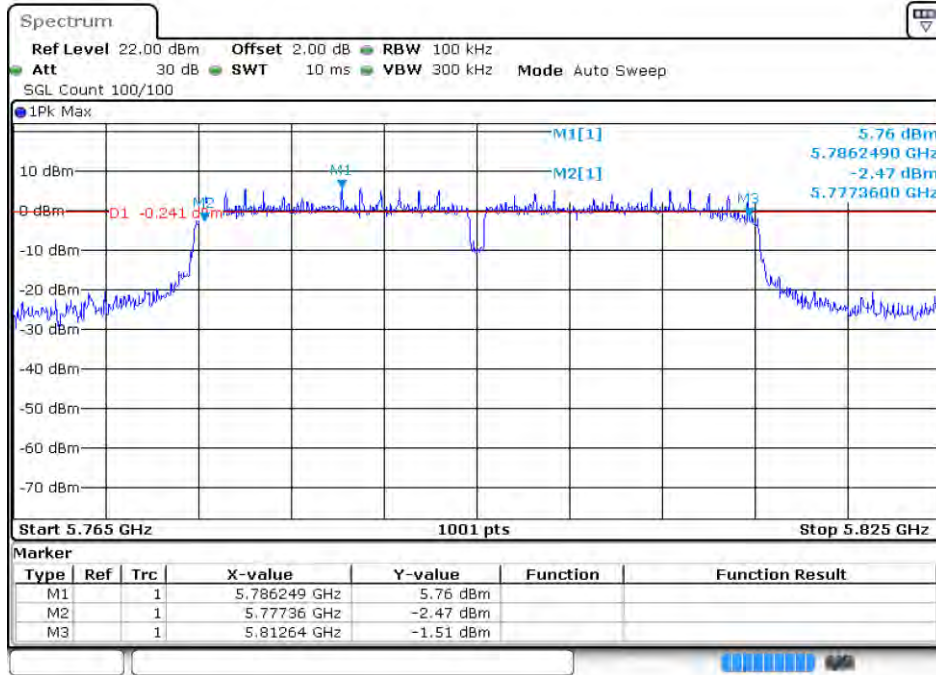


Date: 13.MAR.2020 14:13:20



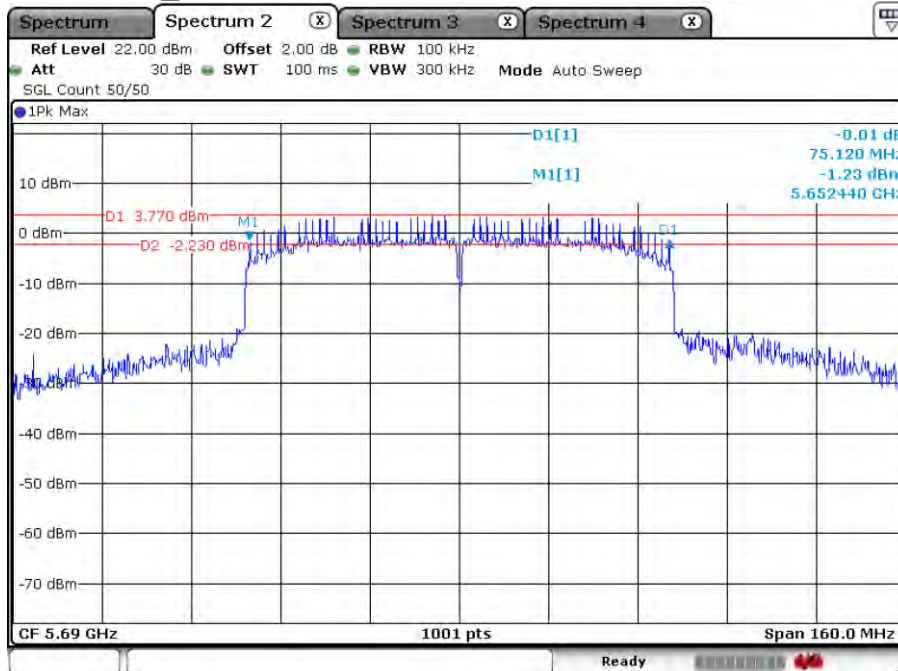


4.6.2.15 11AC40\_159 ANT 1



Date: 13.MAR.2020 14:14:26

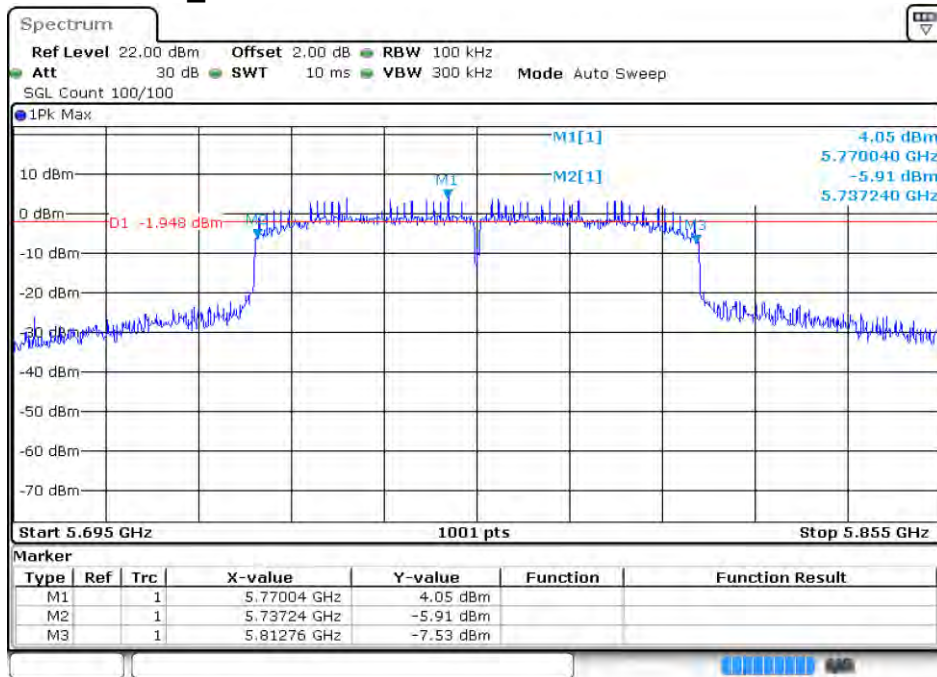
4.6.2.16 11AC80\_138 ANT 1



Date: 27.MAR.2020 09:05:42



**4.6.2.17 11AC80\_155 ANT 1**



Date: 13.MAR.2020 13:09:27







### 4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find the</p> <ul style="list-style-type: none"> <li>6Mbps of rate is the worst case of 802.11a;</li> <li>MCS0 of rate is the worst case of 802.11n(HT20);</li> <li>MCS0 of rate is the worst case of 802.11n(HT40);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT20);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT40);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT80).</li> </ul> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	



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

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	17.2328	PASS
	48	5240	ANT 1	17.2927	PASS
	52	5260	ANT 1	17.2927	PASS
	64	5320	ANT 1	17.2627	PASS
	100	5500	ANT 1	17.2328	PASS
	140	5700	ANT 1	17.2627	PASS
	144	5720	ANT 1	17.4819	PASS
	149	5745	ANT 1	17.1129	PASS
11N20	165	5825	ANT 1	17.1728	PASS
	36	5180	ANT 1	18.1618	PASS
	48	5240	ANT 1	18.2218	PASS
	52	5260	ANT 1	18.2218	PASS
	64	5320	ANT 1	18.1918	PASS
	100	5500	ANT 1	18.2218	PASS
	140	5700	ANT 1	18.2218	PASS
	144	5720	ANT 1	18.3500	PASS
11N40	149	5745	ANT 1	18.1319	PASS
	165	5825	ANT 1	18.1618	PASS
	38	5190	ANT 1	36.5035	PASS
	46	5230	ANT 1	36.5035	PASS
	54	5270	ANT 1	36.5634	PASS
	62	5310	ANT 1	36.5634	PASS
	102	5510	ANT 1	36.5035	PASS
	134	5670	ANT 1	36.5035	PASS
11AC20	142	5710	ANT 1	37.1635	PASS
	151	5755	ANT 1	36.5634	PASS
	159	5795	ANT 1	36.5634	PASS
	36	5180	ANT 1	18.0719	PASS
	48	5240	ANT 1	18.2517	PASS
	52	5260	ANT 1	18.2517	PASS
	64	5320	ANT 1	18.1918	PASS
	100	5500	ANT 1	18.1918	PASS
11AC40	140	5700	ANT 1	18.1618	PASS
	144	5720	ANT 1	18.2344	PASS
	149	5745	ANT 1	18.1019	PASS
	165	5825	ANT 1	18.1019	PASS
	38	5190	ANT 1	36.5035	PASS
	46	5230	ANT 1	36.5035	PASS
	54	5270	ANT 1	36.6234	PASS
	62	5310	ANT 1	36.6234	PASS
11AC40	102	5510	ANT 1	36.6234	PASS
	134	5670	ANT 1	36.6234	PASS

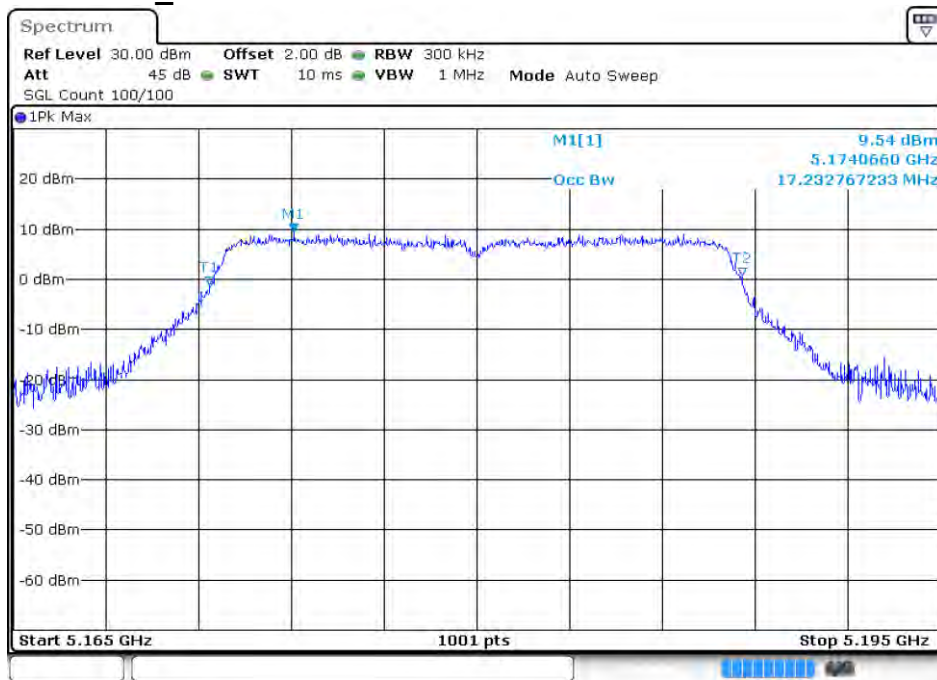


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	142	5710	ANT 1	36.700	PASS
	151	5755	ANT 1	36.6833	PASS
	159	5795	ANT 1	36.6833	PASS
11AC80	42	5210	ANT 1	74.9251	PASS
	58	5290	ANT 1	75.1648	PASS
	106	5530	ANT 1	75.045	PASS
	138	5690	ANT 1	75.4848	PASS
	155	5775	ANT 1	75.1648	PASS

### 4.7.2 Plots for 99% Occupied Bandwidth

#### 4.7.2.1 11A20\_36 ANT 1

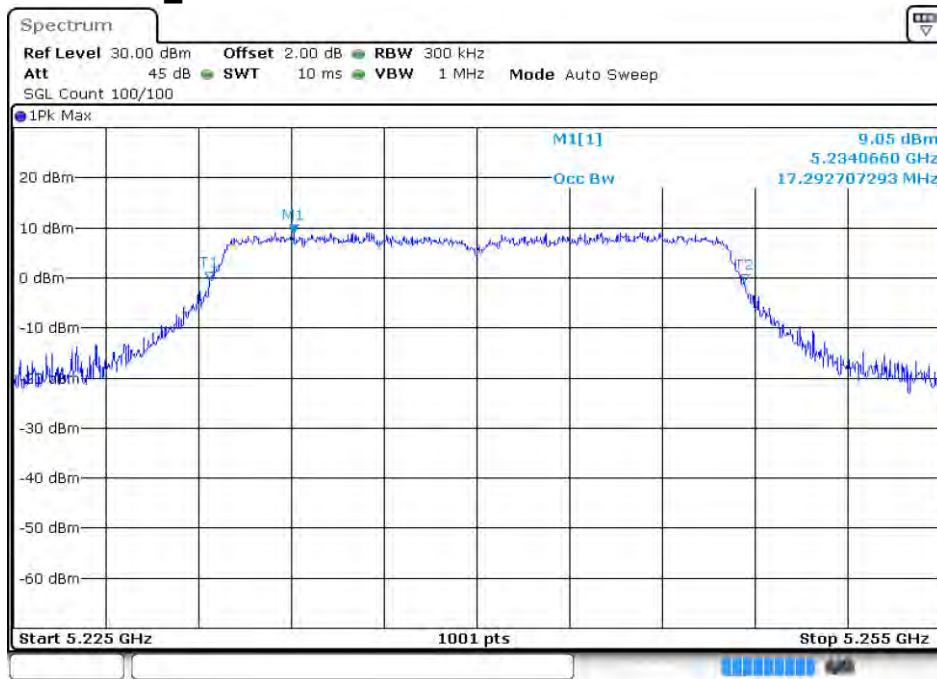


Date: 13.MAR.2020 13:11:33



4.7.2.2

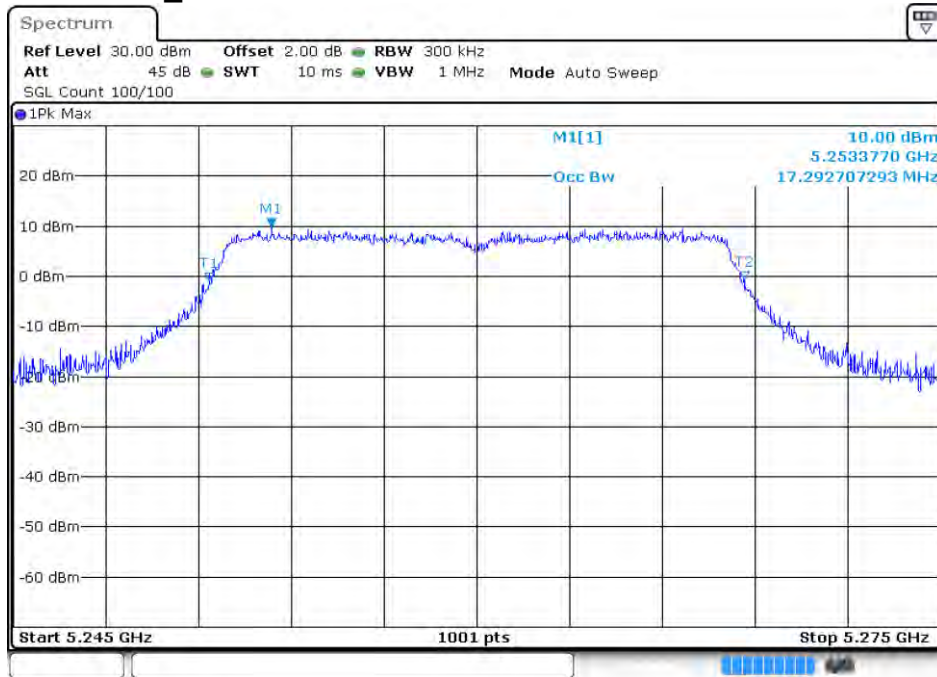
11A20\_48 ANT 1



Date: 13.MAR.2020 13:15:20

4.7.2.3

11A20\_52 ANT 1

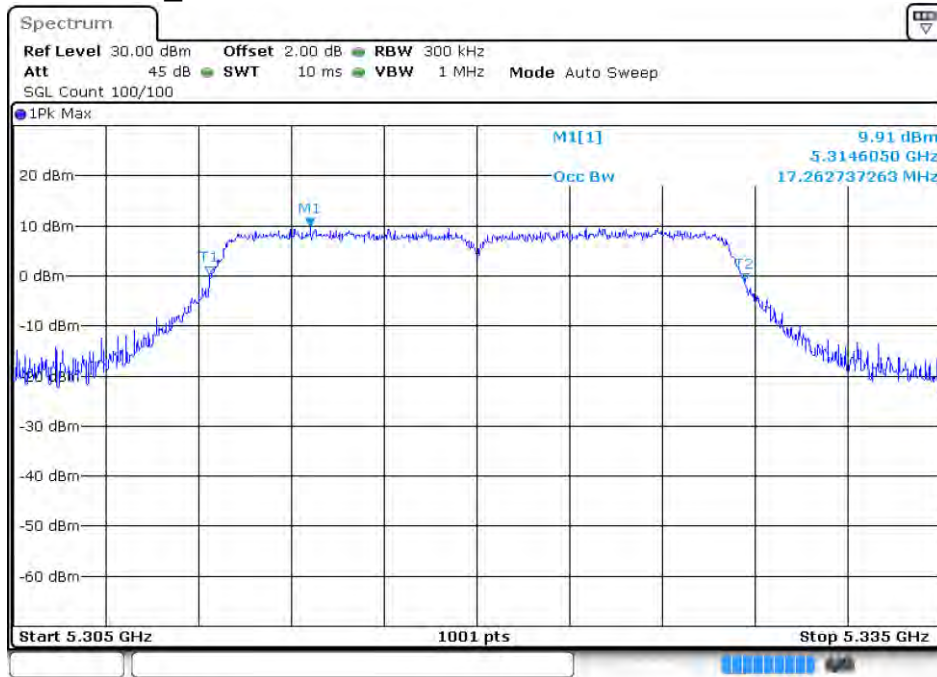


Date: 13.MAR.2020 13:17:46



4.7.2.4

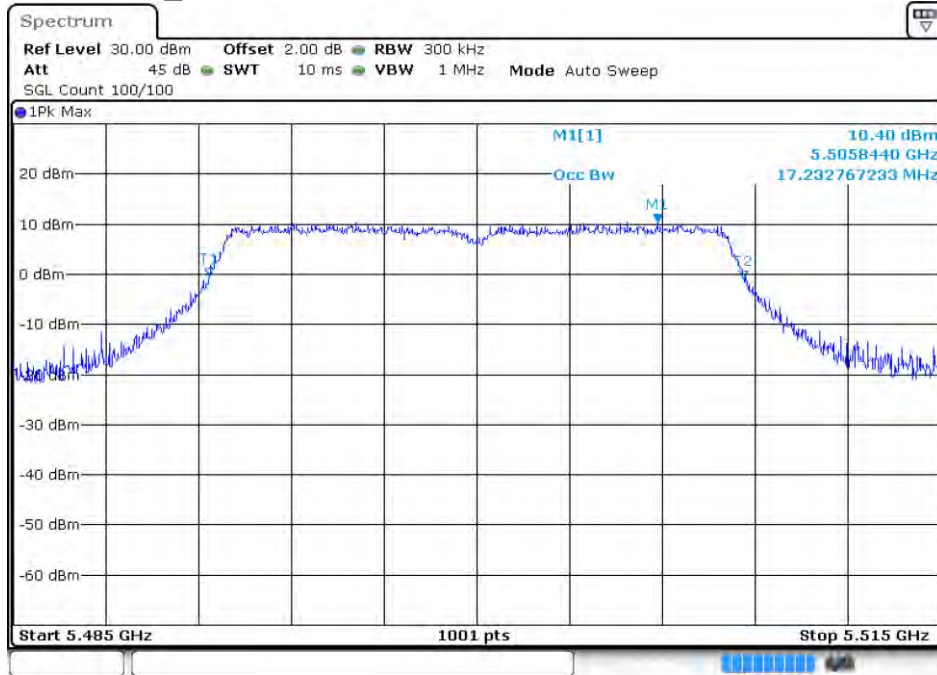
11A20\_64 ANT 1



Date: 13.MAR.2020 13:20:24

4.7.2.5

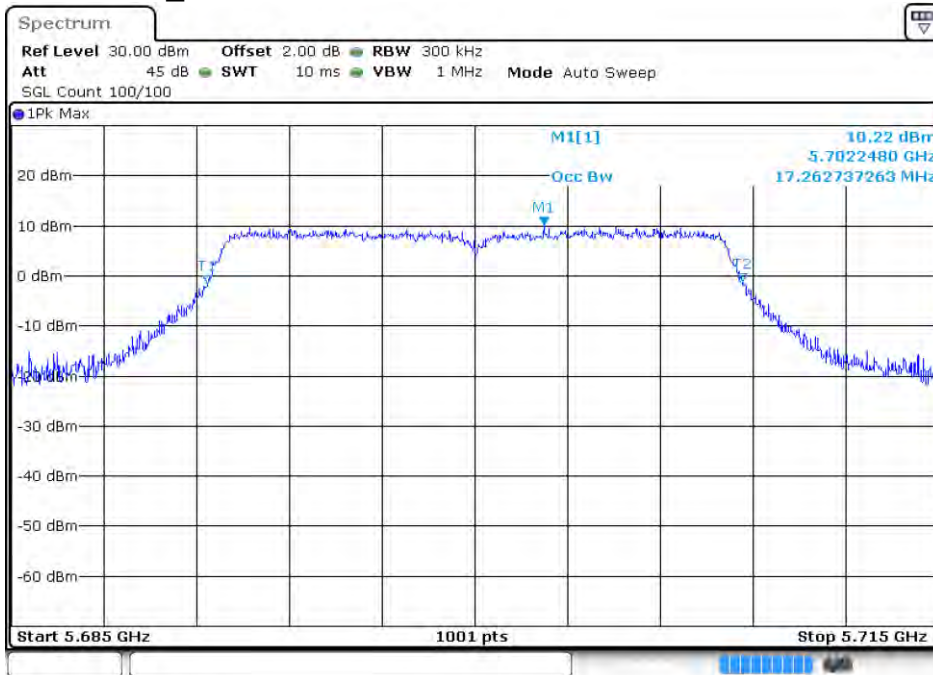
11A20\_100 ANT 1



Date: 13.MAR.2020 13:21:33

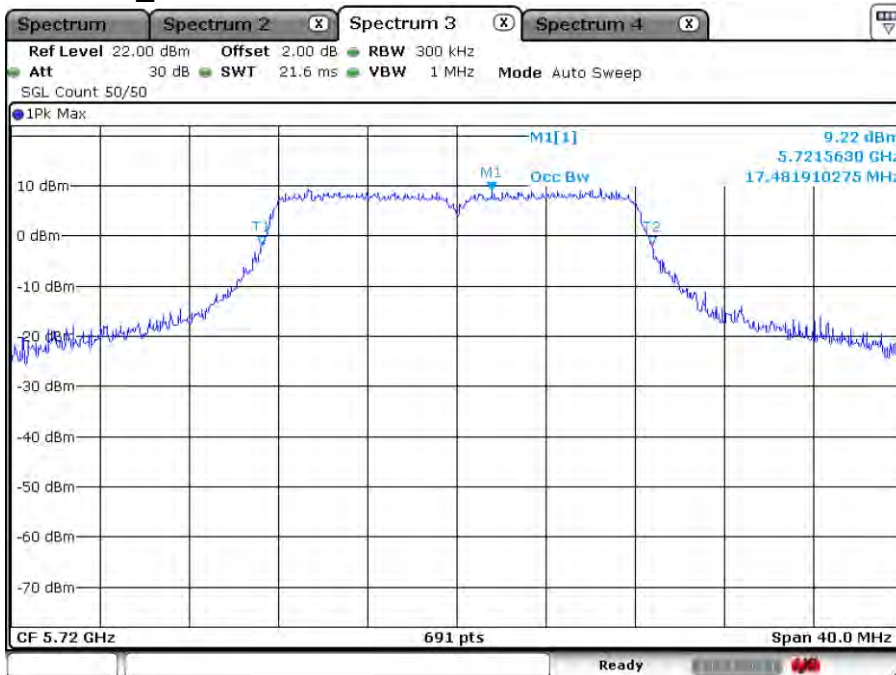


**4.7.2.6 11A20\_140 ANT 1**



Date: 13.MAR.2020 13:22:32

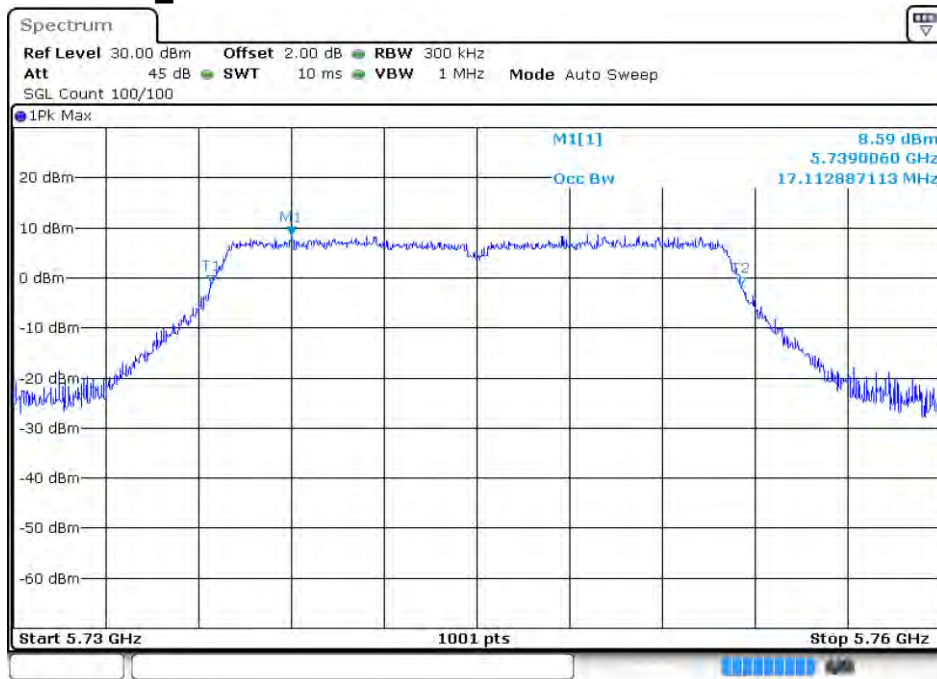
**4.7.2.7 11A20\_144 ANT 1**



Date: 27.MAR.2020 08:34:36

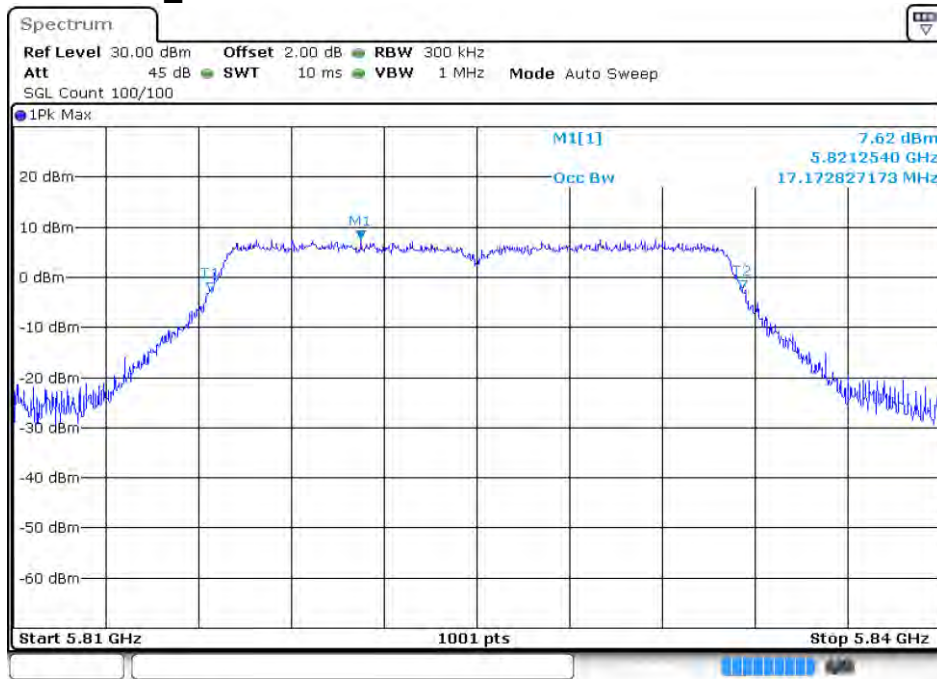


**4.7.2.8 11A20\_149 ANT 1**



Date: 13.MAR.2020 13:23:52

**4.7.2.9 11A20\_165 ANT 1**

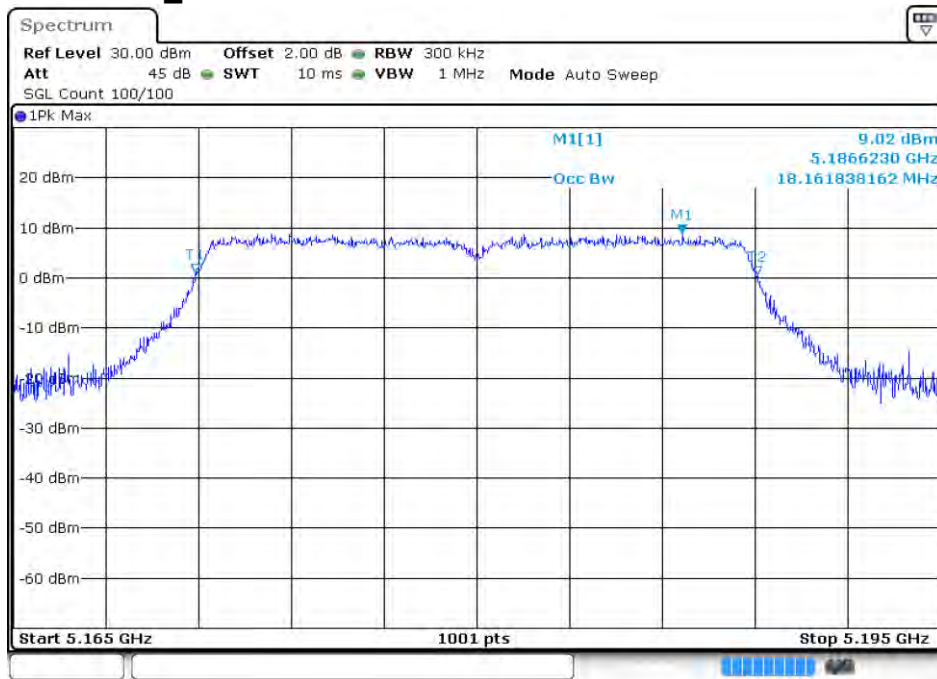


Date: 13.MAR.2020 13:26:03



4.7.2.10

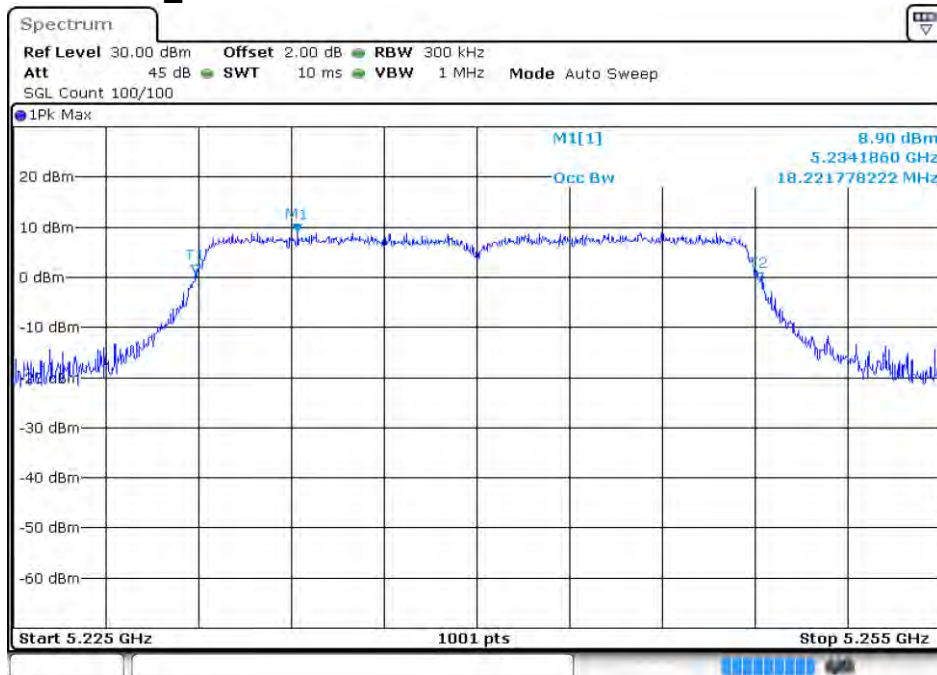
11N20\_36 ANT 1



Date: 13.MAR.2020 13:30:47

4.7.2.11

11N20\_48 ANT 1



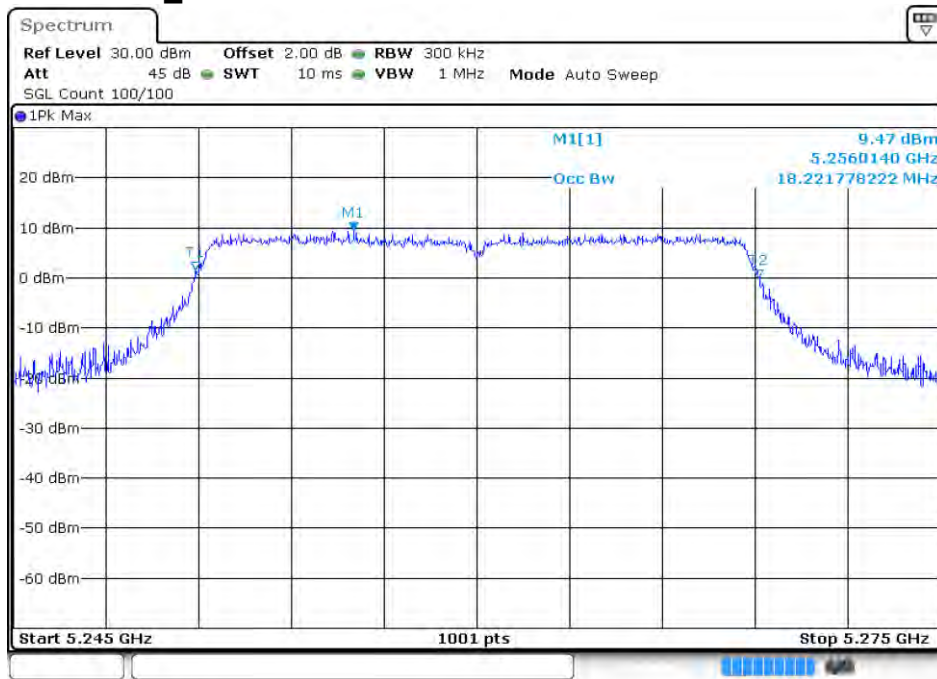
Date: 13.MAR.2020 13:32:39





4.7.2.12

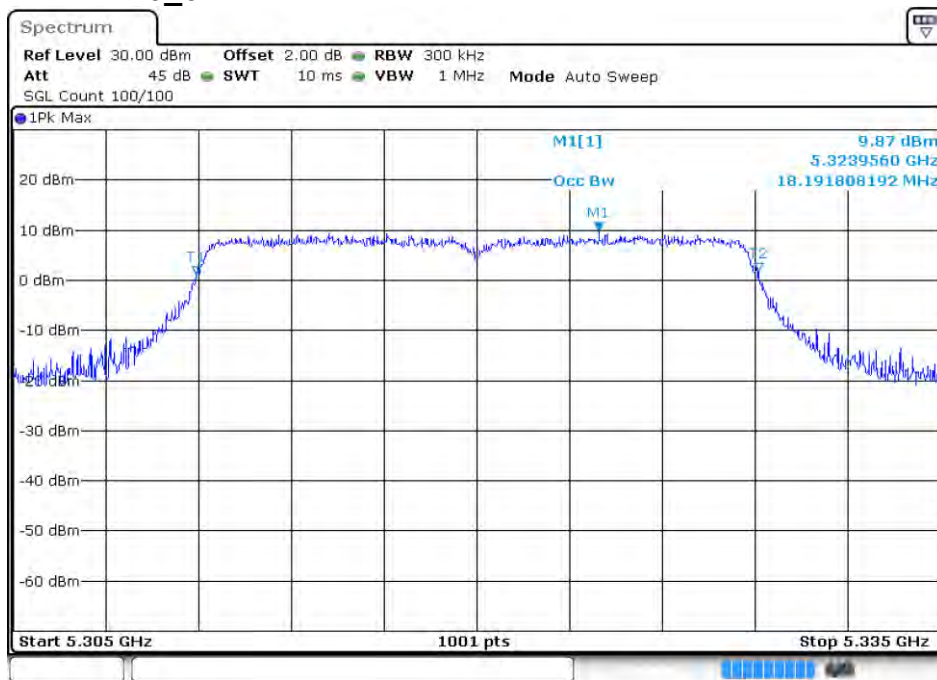
11N20\_52 ANT 1



Date: 13.MAR.2020 13:34:11

4.7.2.13

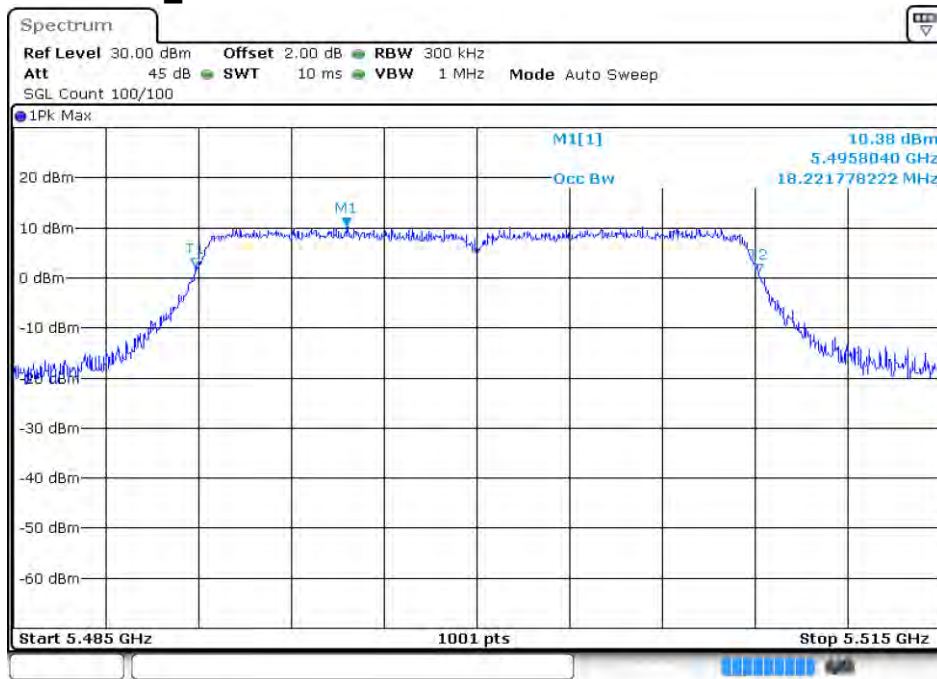
11N20\_64 ANT 1



Date: 13.MAR.2020 13:36:18

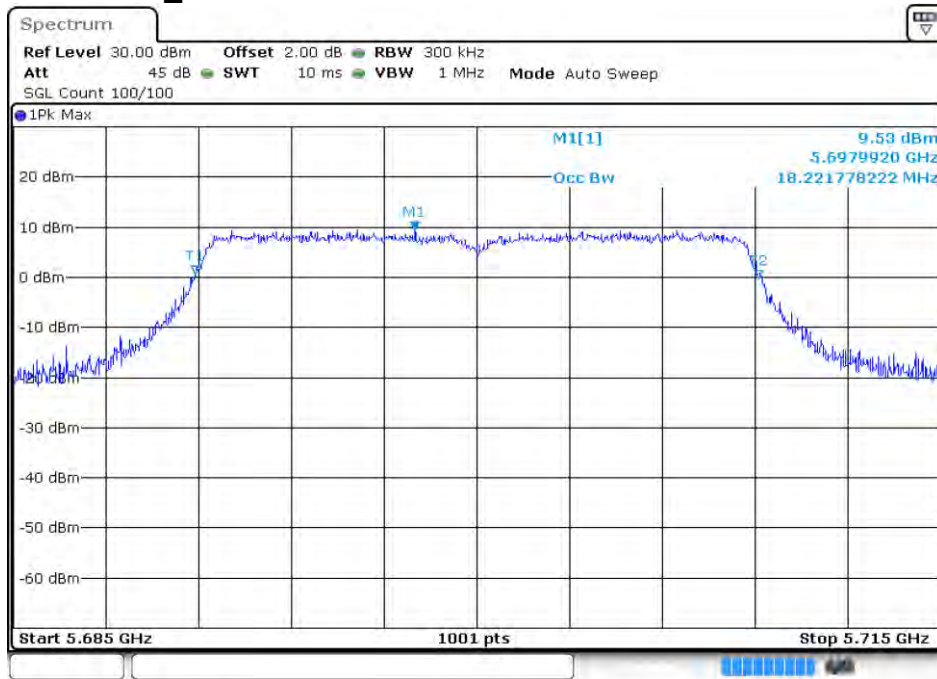


**4.7.2.14 11N20\_100 ANT 1**



Date: 13.MAR.2020 13:39:25

**4.7.2.15 11N20\_140 ANT 1**

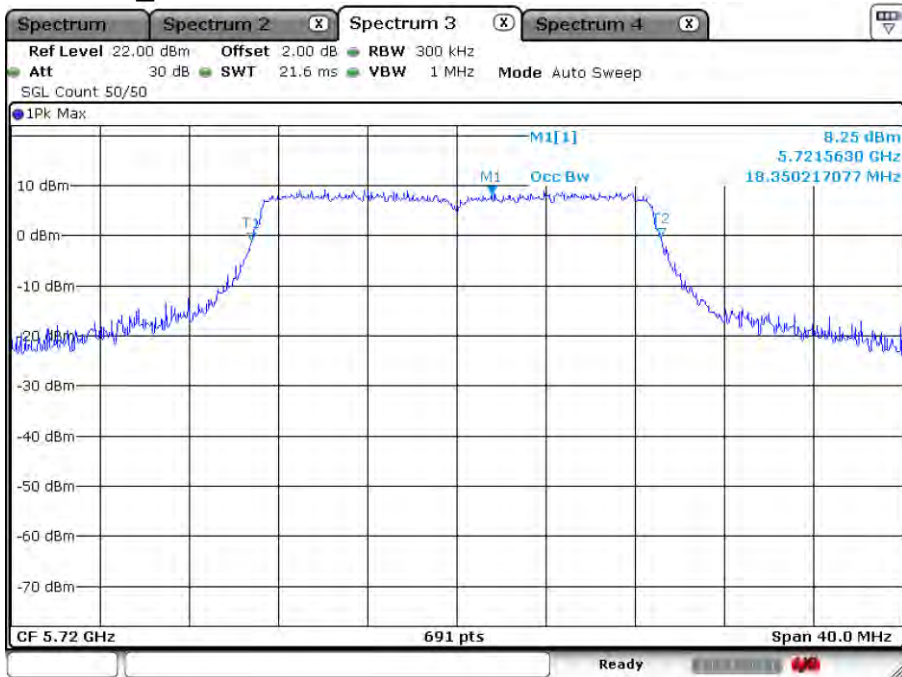


Date: 13.MAR.2020 13:40:38



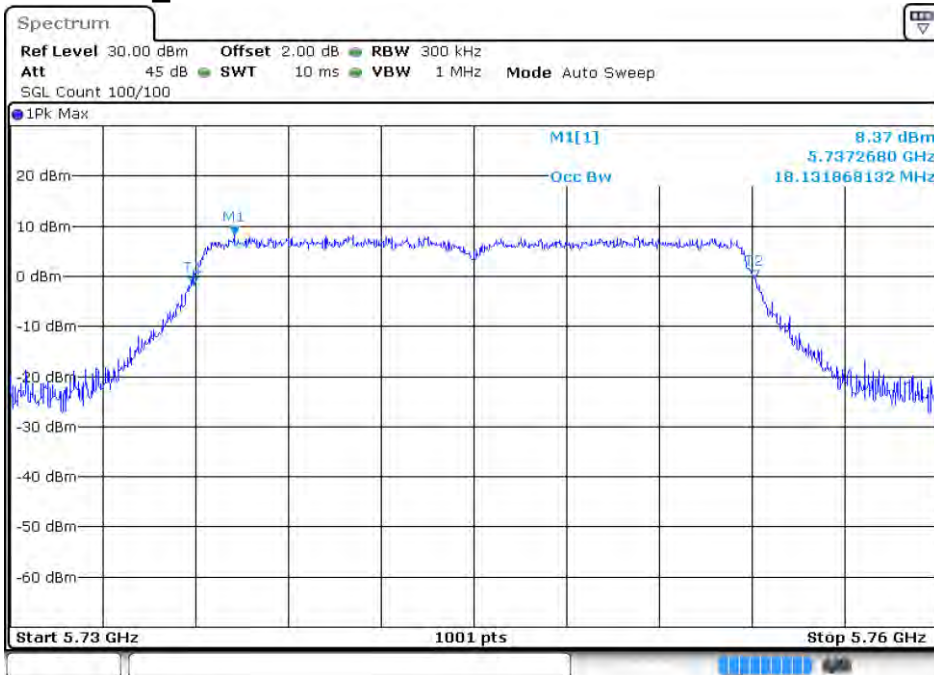
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**4.7.2.16 11N20\_144 ANT 1**



Date: 27.MAR.2020 08:38:12

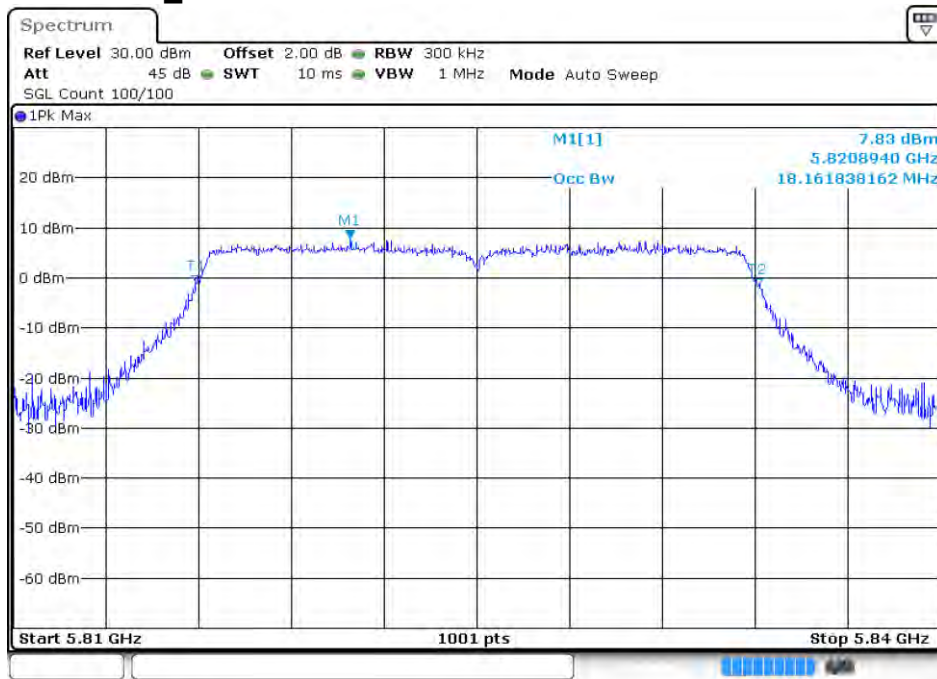
**4.7.2.17 11N20\_149 ANT 1**



Date: 13.MAR.2020 13:42:06



**4.7.2.18 11N20\_165 ANT 1**



Date: 13.MAR.2020 13:44:06

**4.7.2.19 11N40\_38 ANT 1**

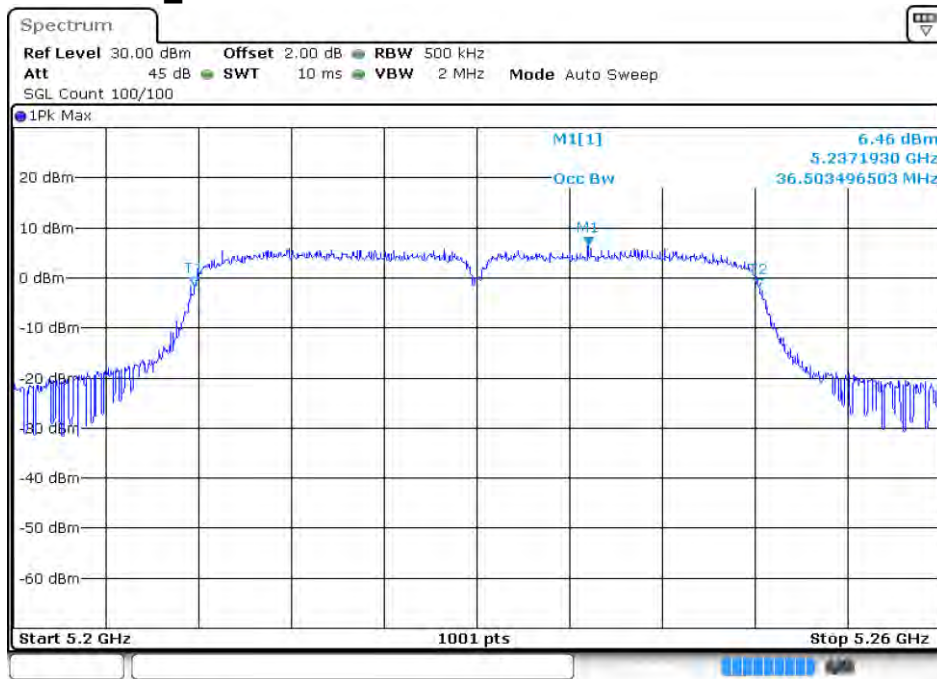


Date: 13.MAR.2020 13:57:59



**4.7.2.20**

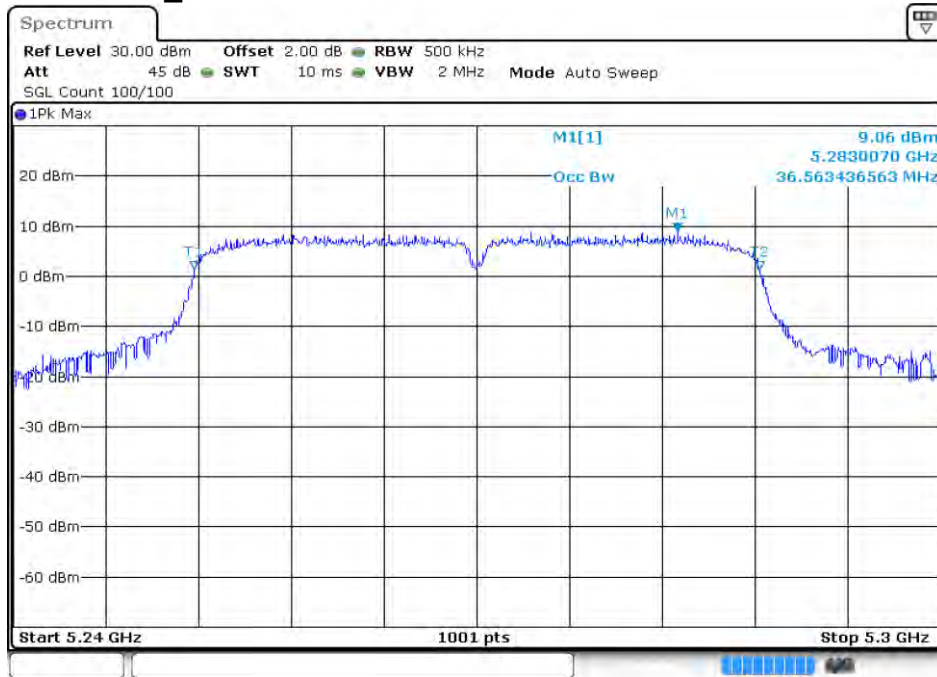
**11N40\_46 ANT 1**



Date: 13.MAR.2020 13:58:52

**4.7.2.21**

**11N40\_54 ANT 1**

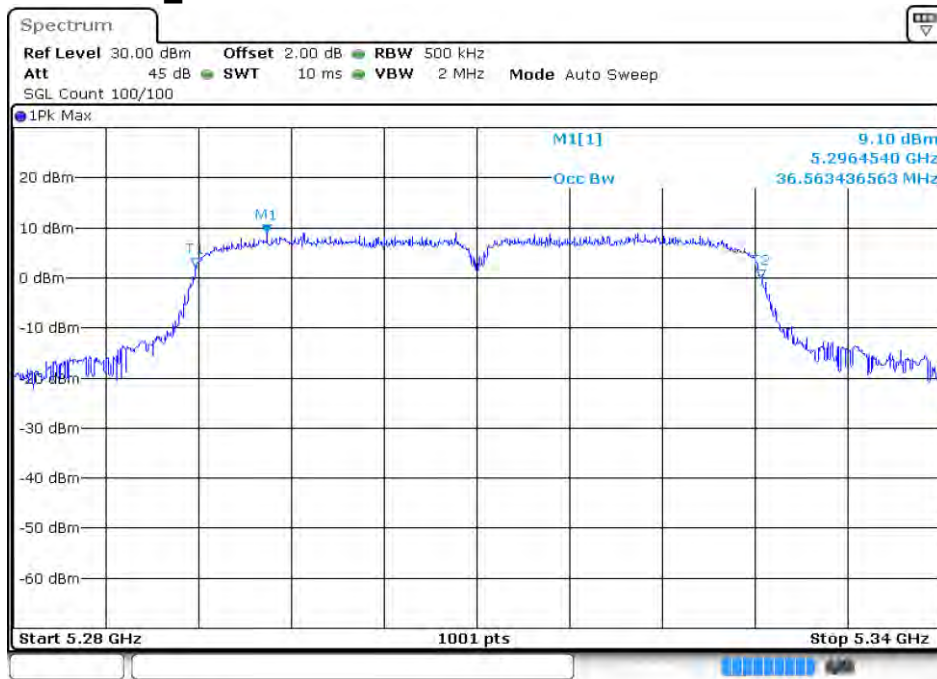


Date: 13.MAR.2020 14:00:01



4.7.2.22

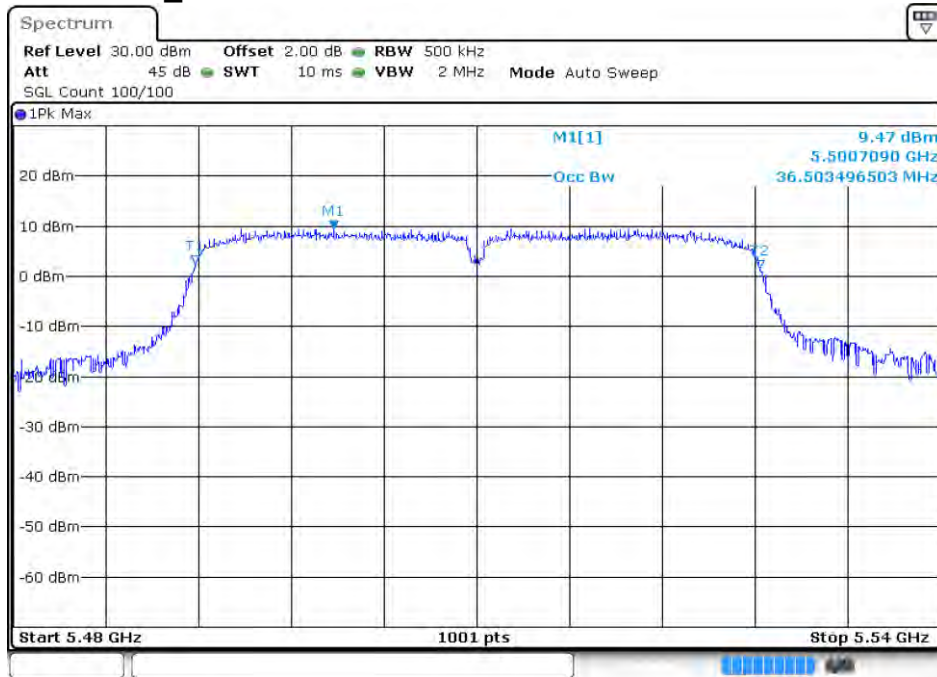
11N40\_62 ANT 1



Date: 13.MAR.2020 14:00:54

4.7.2.23

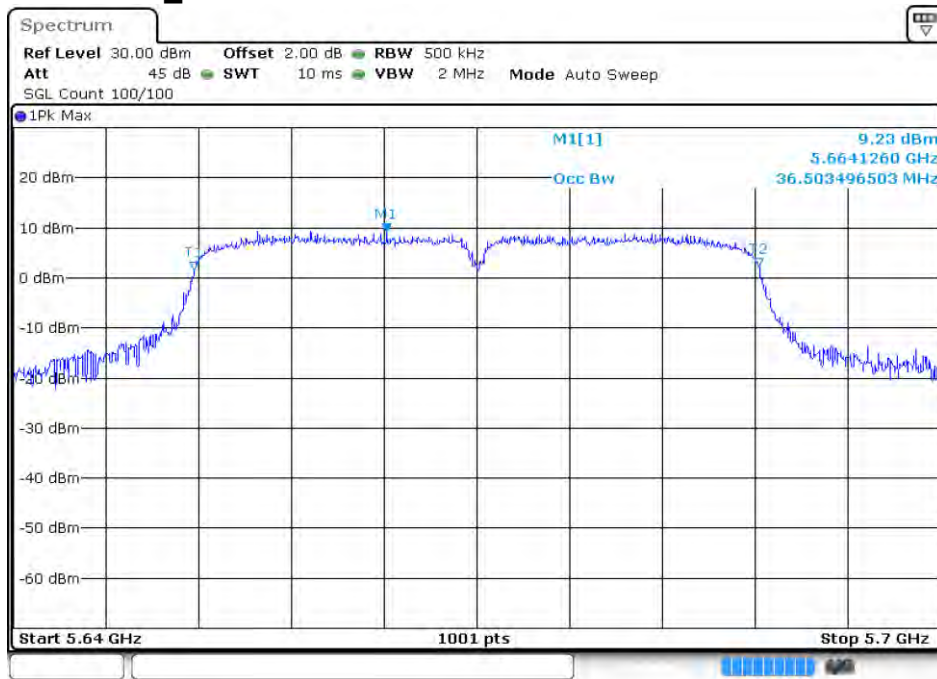
11N40\_102 ANT 1



Date: 13.MAR.2020 14:02:03

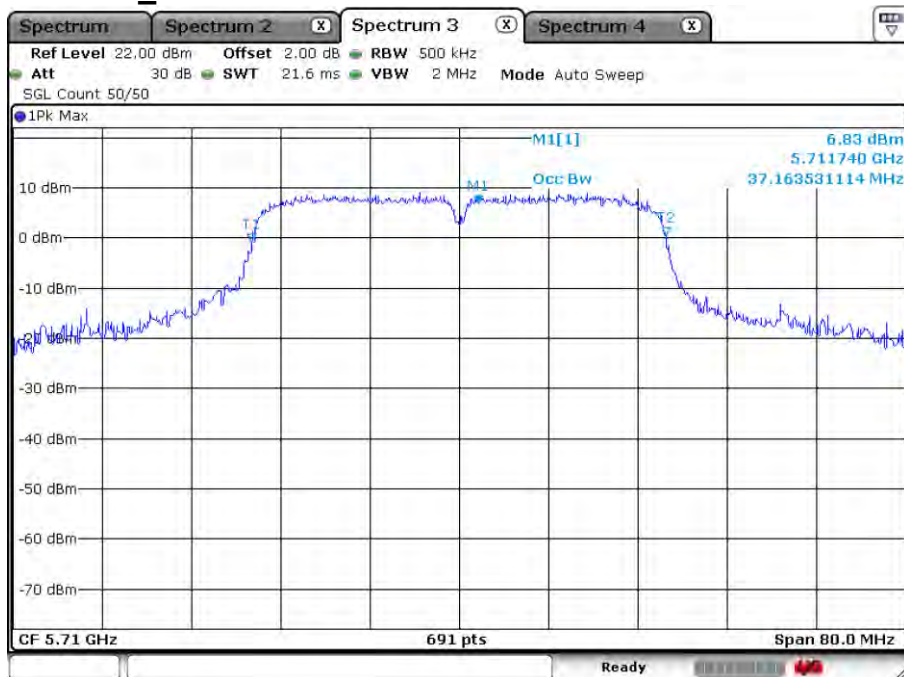


**4.7.2.24 11N40\_134 ANT 1**



Date: 13.MAR.2020 14:02:57

**4.7.2.25 11N40\_142 ANT 1**

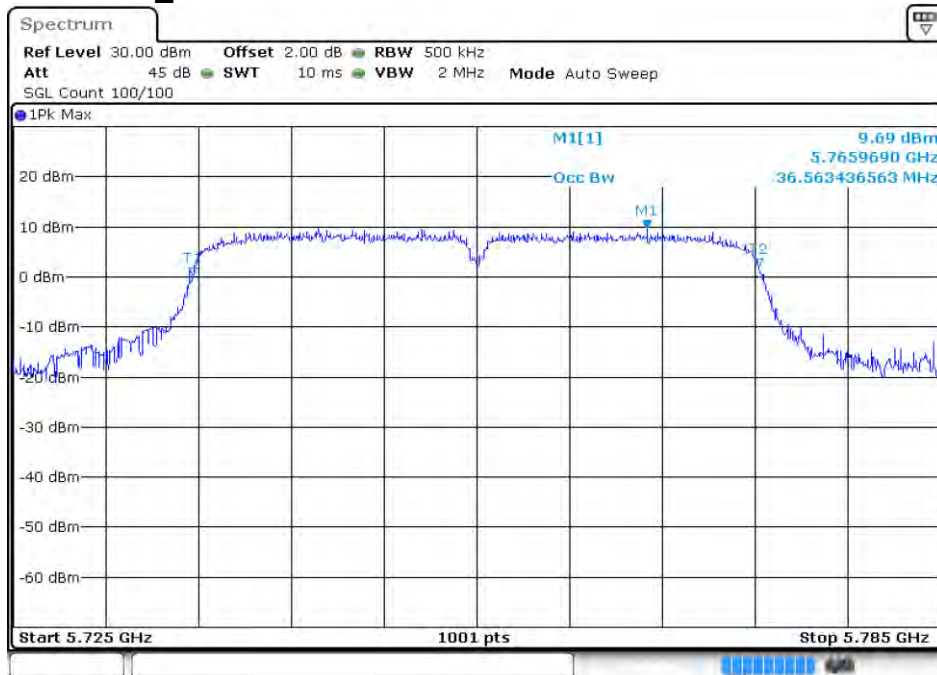


Date: 27.MAR.2020 08:48:03



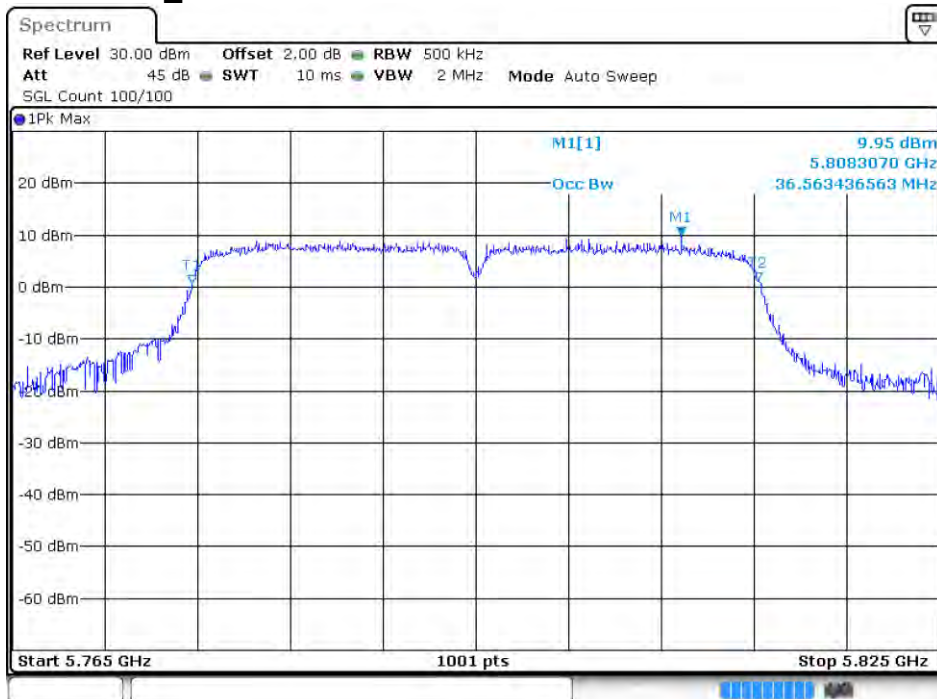
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**4.7.2.26 11N40\_151 ANT 1**



Date: 13.MAR.2020 14:04:04

**4.7.2.27 11N40\_159 ANT 1**



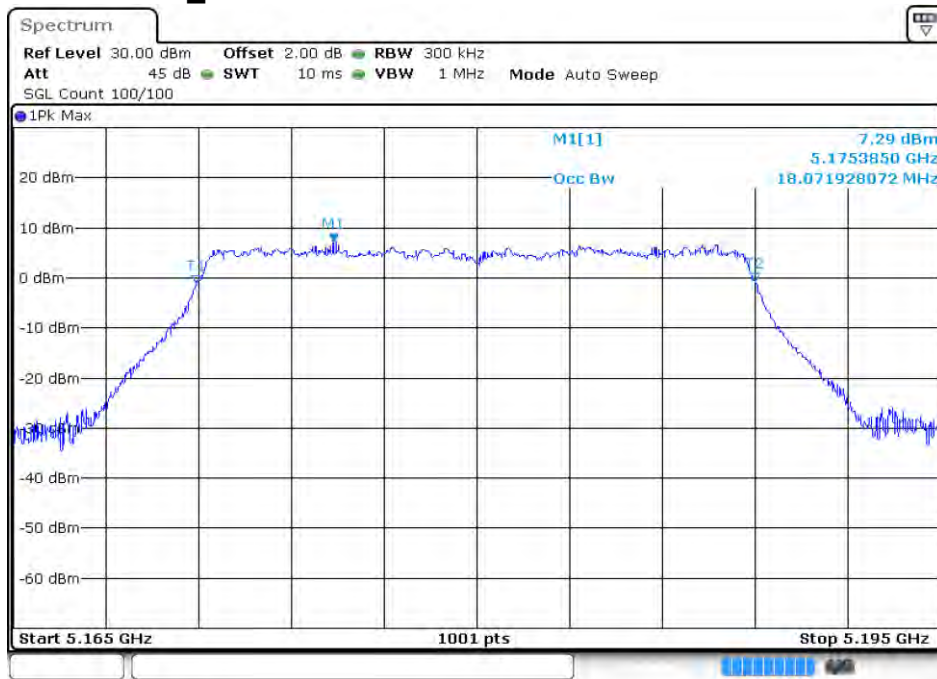
Date: 13.MAR.2020 14:05:03



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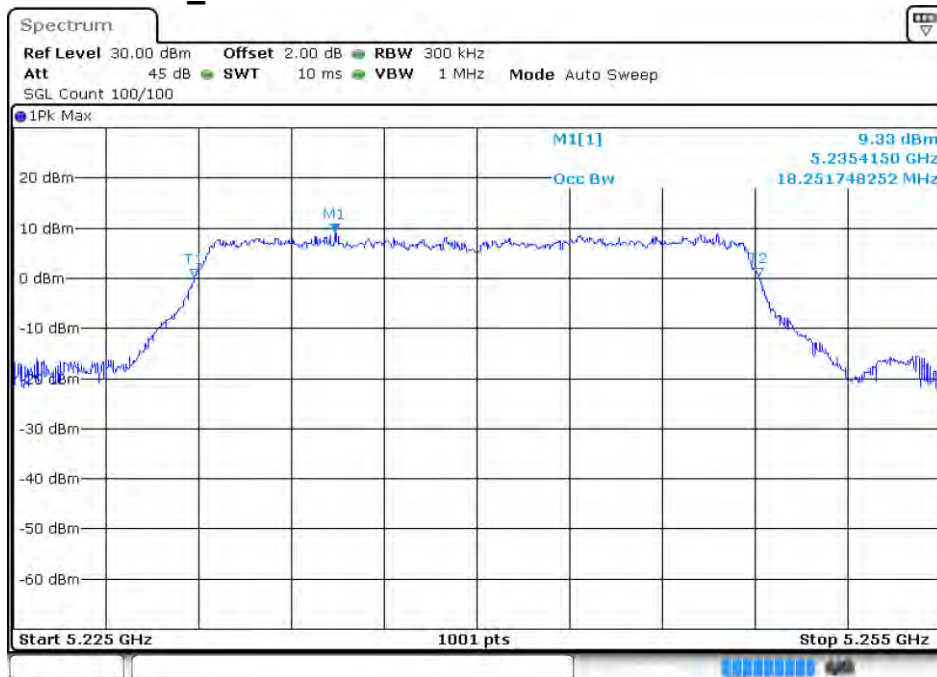


**4.7.2.28 11AC20\_36 ANT 1**



Date: 13.MAR.2020 13:45:46

**4.7.2.29 11AC20\_48 ANT 1**

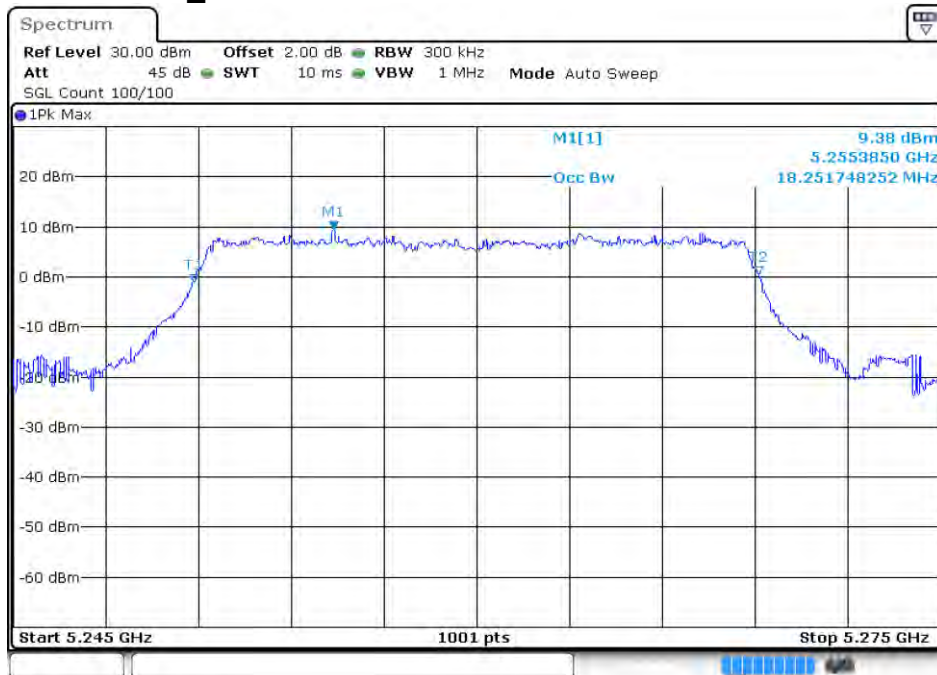


Date: 13.MAR.2020 13:47:52



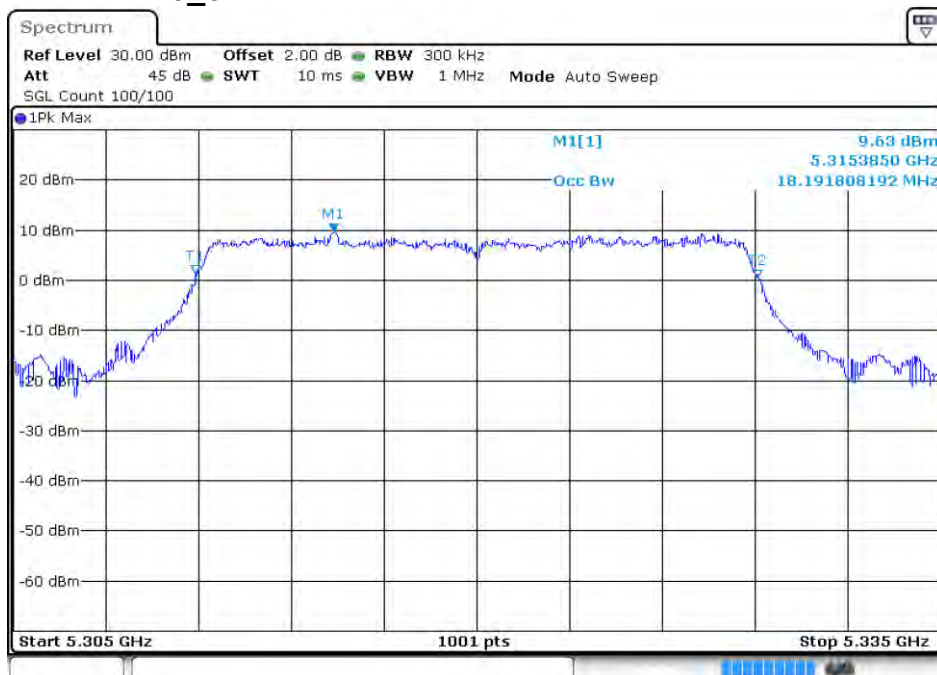


4.7.2.30 11AC20\_52 ANT 1



Date: 13.MAR.2020 13:49:02

4.7.2.31 11AC20\_64 ANT 1

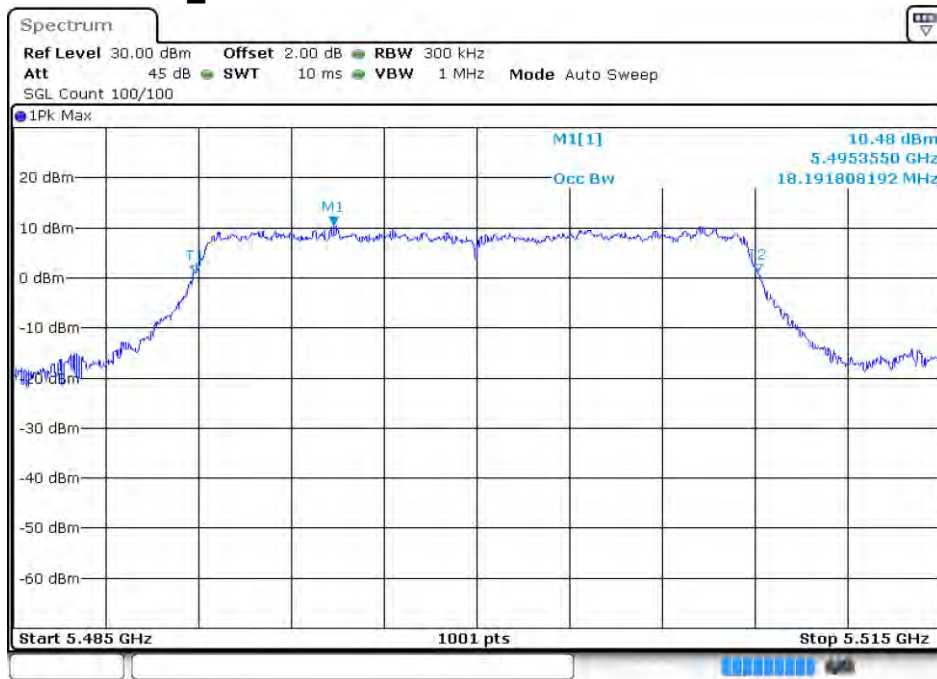


Date: 13.MAR.2020 13:50:51



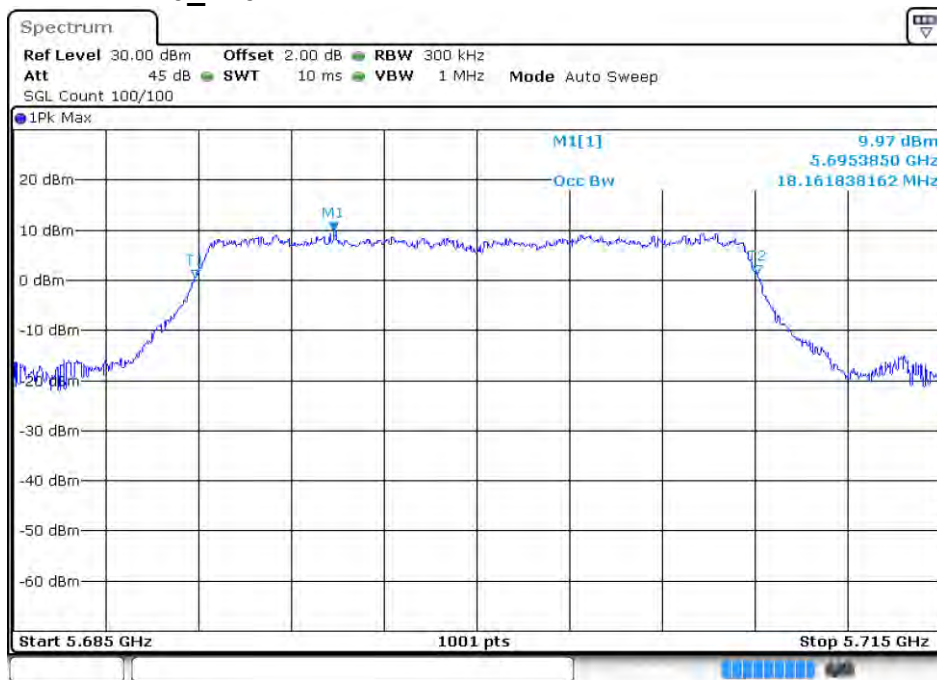
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**4.7.2.32 11AC20\_100 ANT 1**



Date: 13.MAR.2020 13:52:03

**4.7.2.33 11AC20\_140 ANT 1**

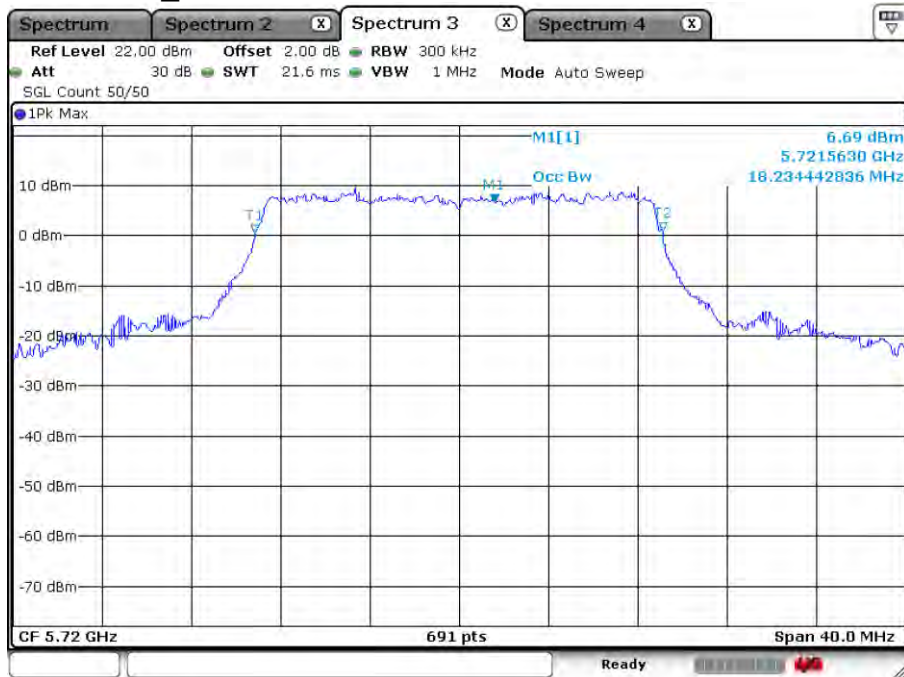


Date: 13.MAR.2020 13:52:56



**4.7.2.34**

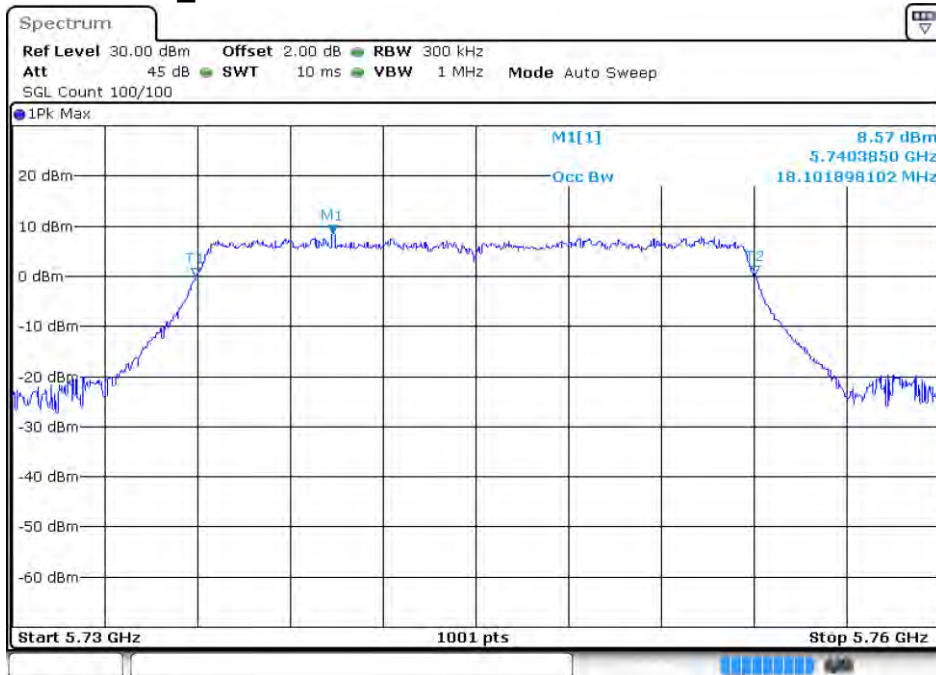
**11AC20\_144 ANT 1**



Date: 27.MAR.2020 08:41:13

**4.7.2.35**

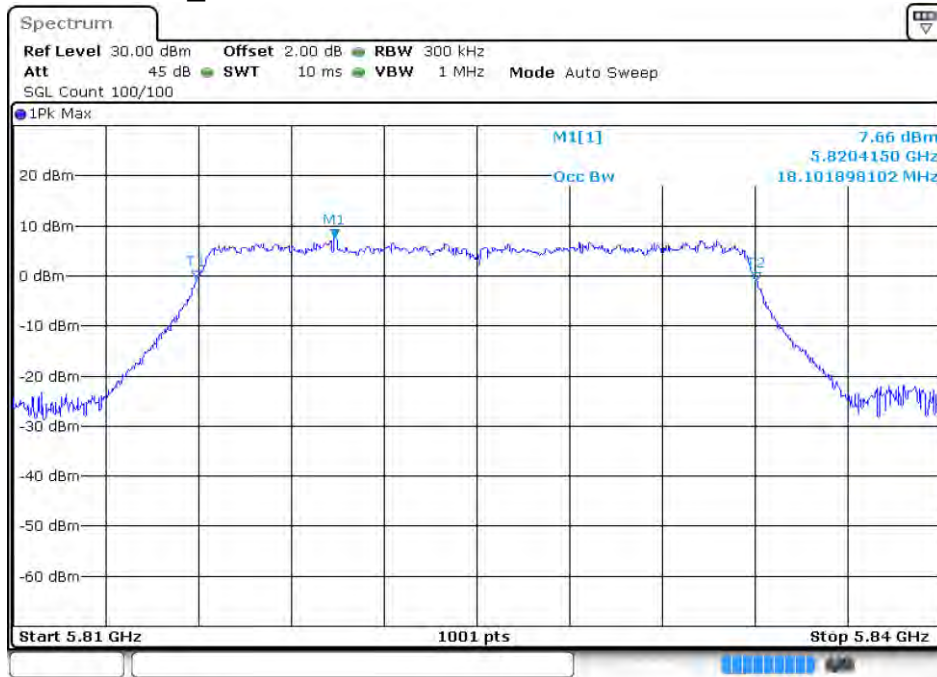
**11AC20\_149 ANT 1**



Date: 13.MAR.2020 13:54:06

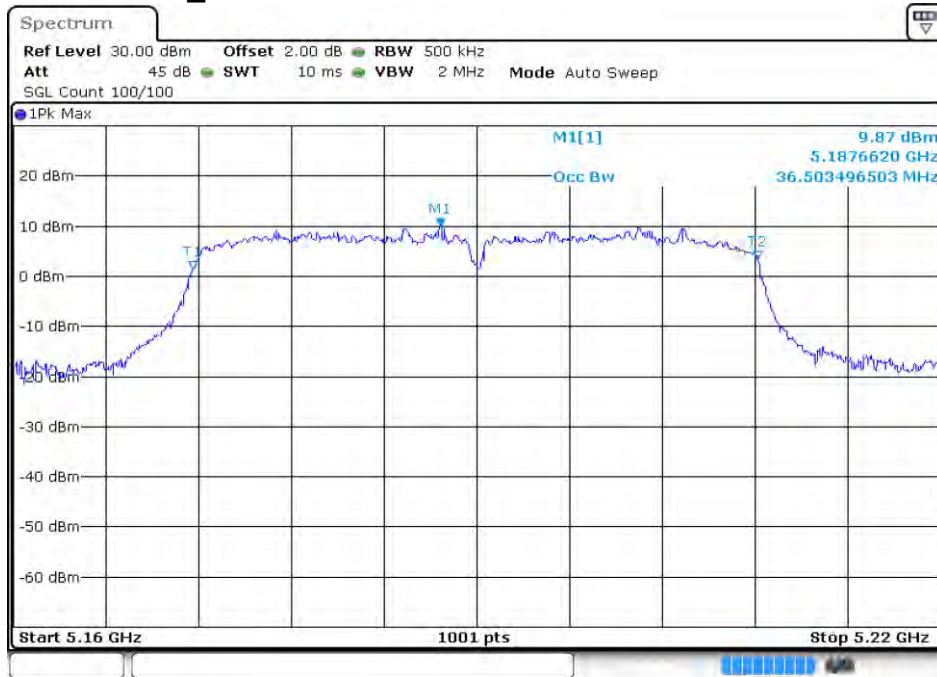


**4.7.2.36 11AC20\_165 ANT 1**



Date: 13.MAR.2020 13:56:05

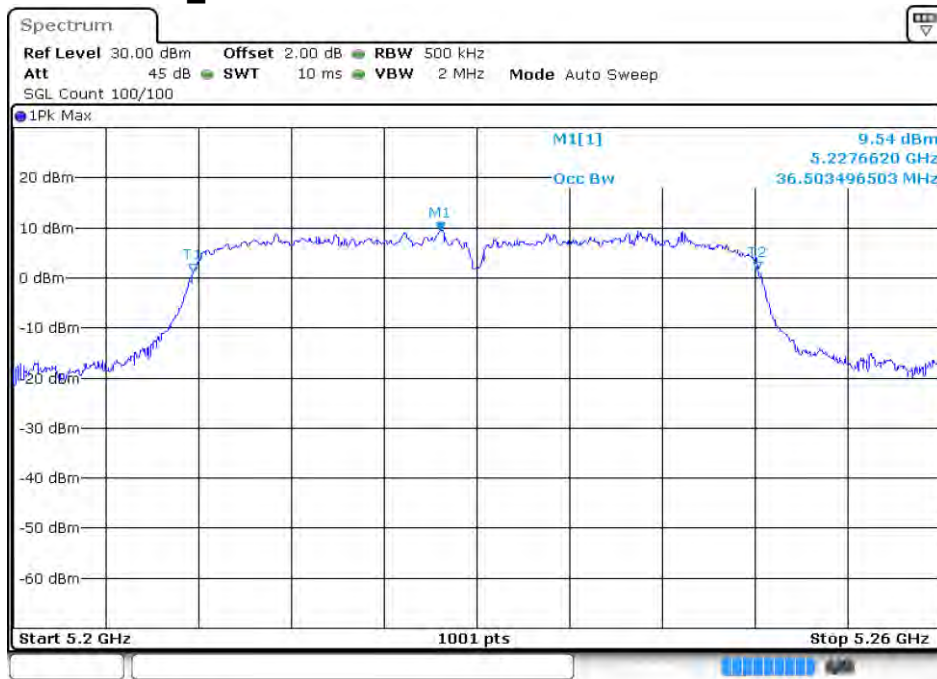
**4.7.2.37 11AC40\_38 ANT 1**



Date: 13.MAR.2020 14:07:02



**4.7.2.38 11AC40\_46 ANT 1**



Date: 13.MAR.2020 14:08:04

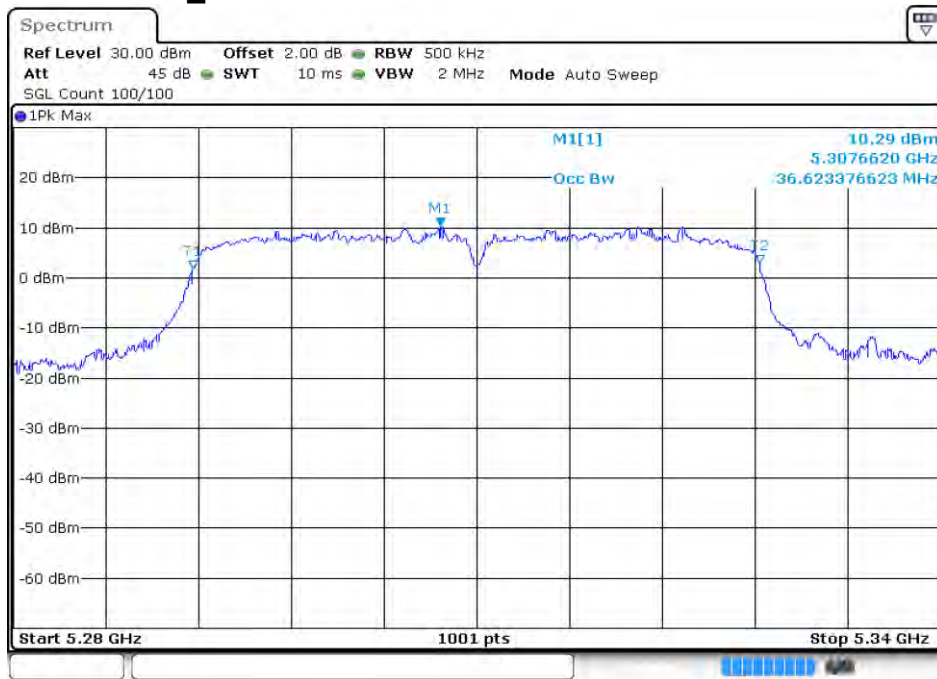
**4.7.2.39 11AC40\_54 ANT 1**



Date: 13.MAR.2020 14:09:23

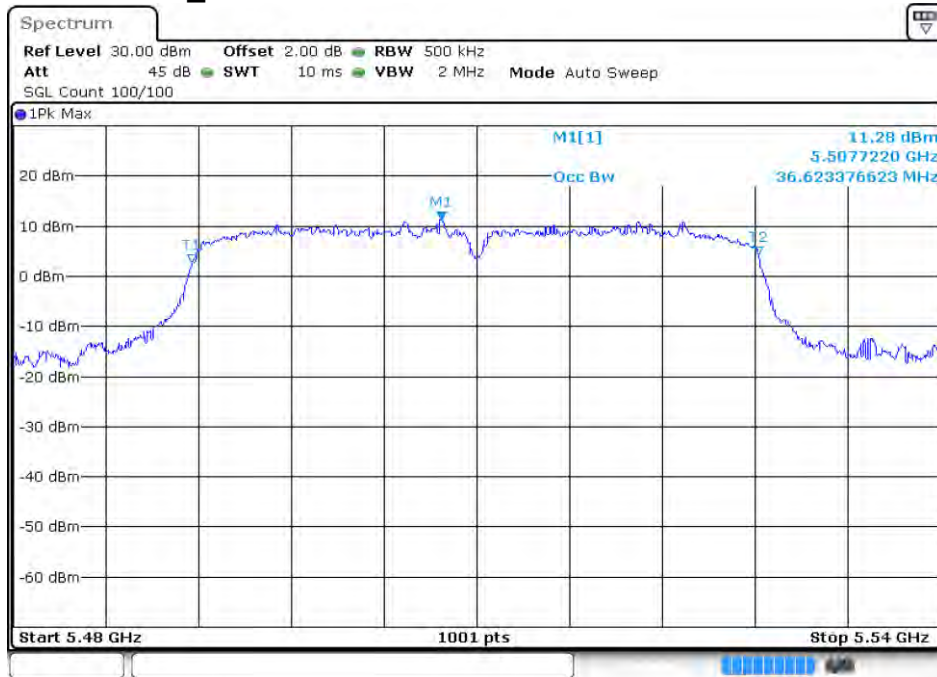


**4.7.2.40 11AC40\_62 ANT 1**



Date: 13.MAR.2020 14:10:16

**4.7.2.41 11AC40\_102 ANT 1**

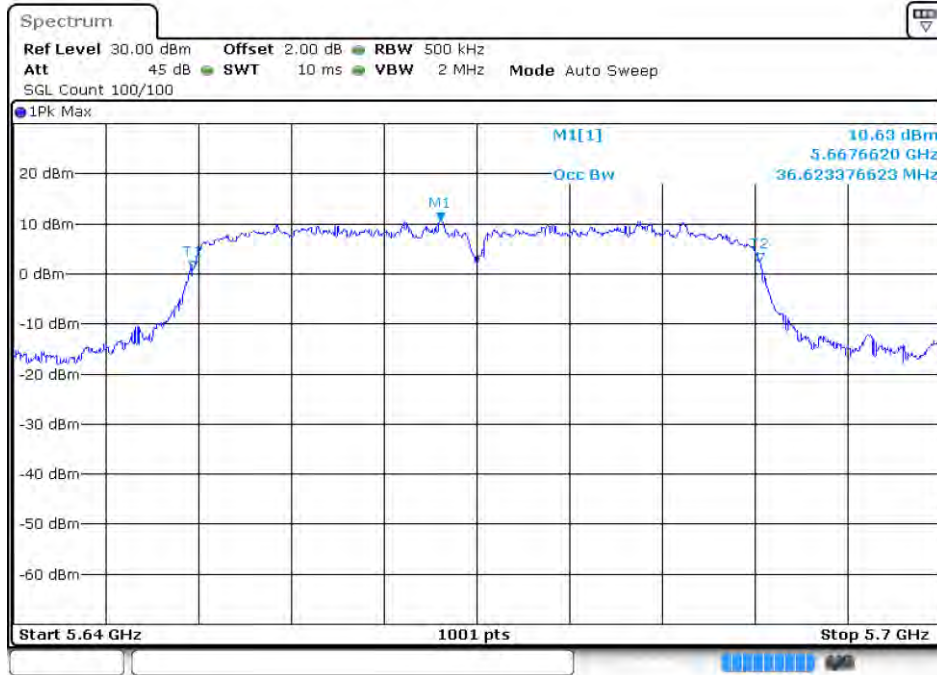


Date: 13.MAR.2020 14:11:22



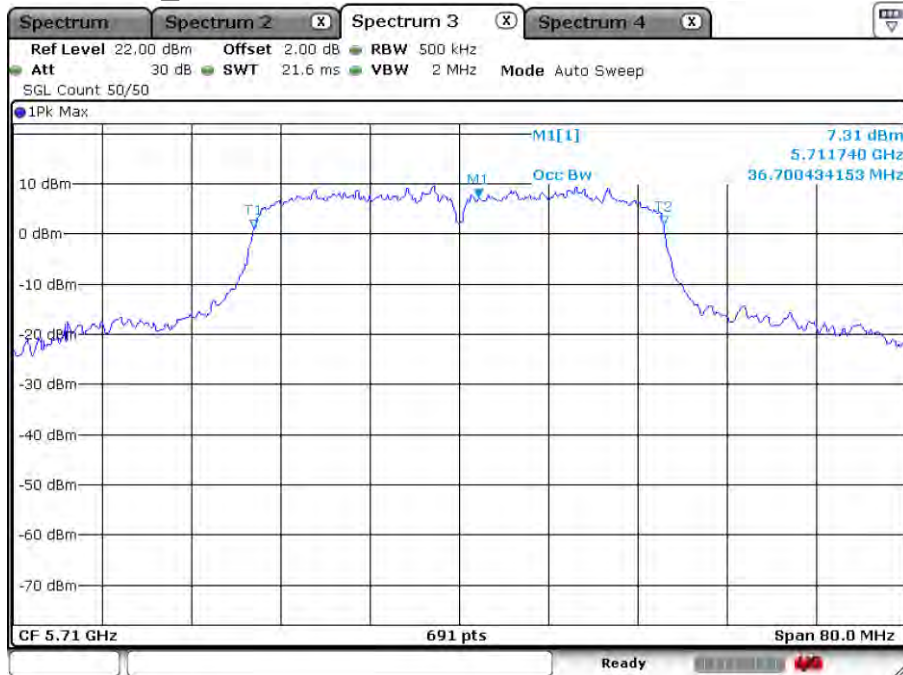


4.7.2.42 11AC40\_134 ANT 1



Date: 13.MAR.2020 14:12:20

4.7.2.43 11AC40\_142 ANT 1



Date: 27.MAR.2020 08:52:08



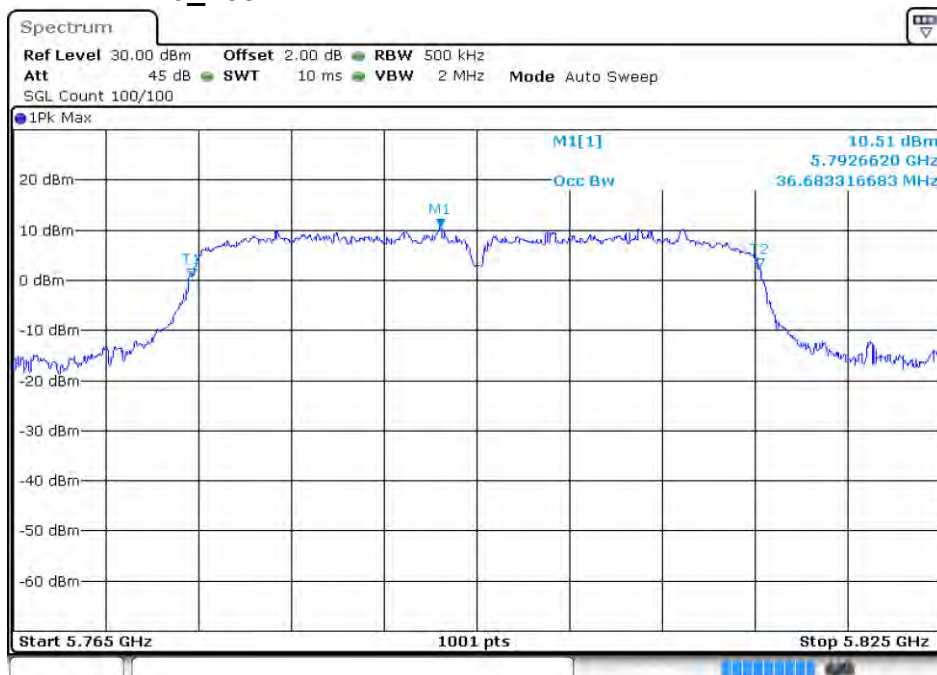


**4.7.2.44 11AC40\_151 ANT 1**



Date: 13.MAR.2020 14:13:27

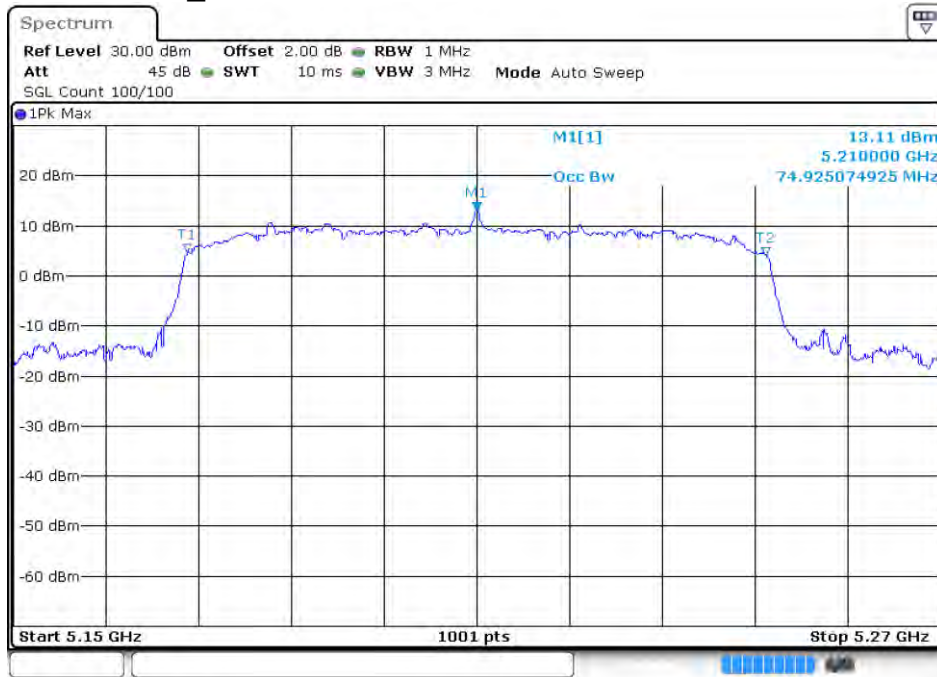
**4.7.2.45 11AC40\_159 ANT 1**



Date: 13.MAR.2020 14:14:32

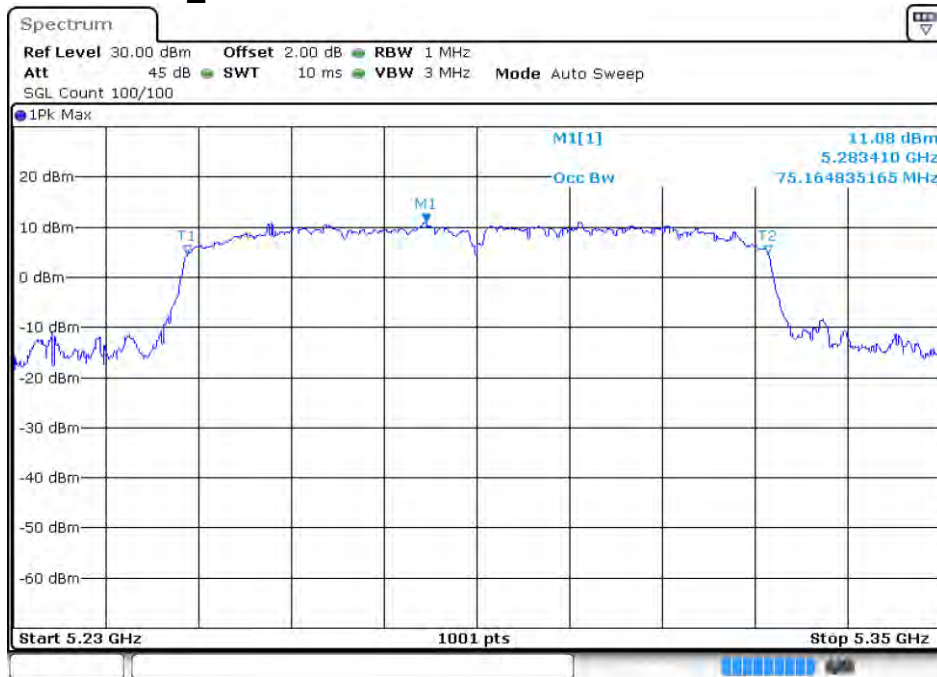


**4.7.2.46 11AC80\_42 ANT 1**



Date: 13.MAR.2020 12:58:16

**4.7.2.47 11AC80\_58 ANT 1**

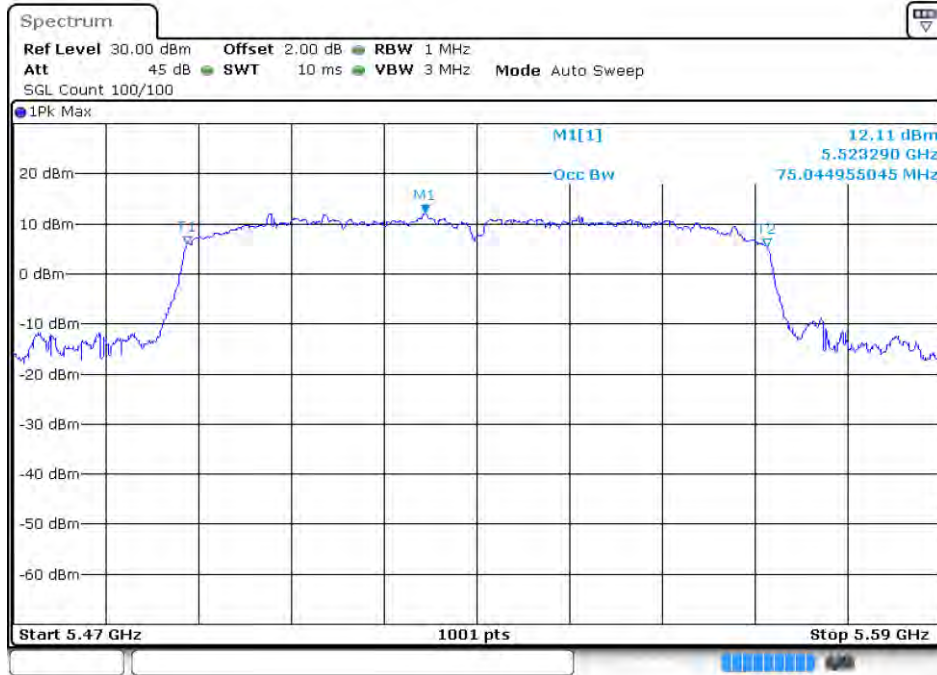


Date: 13.MAR.2020 13:04:19



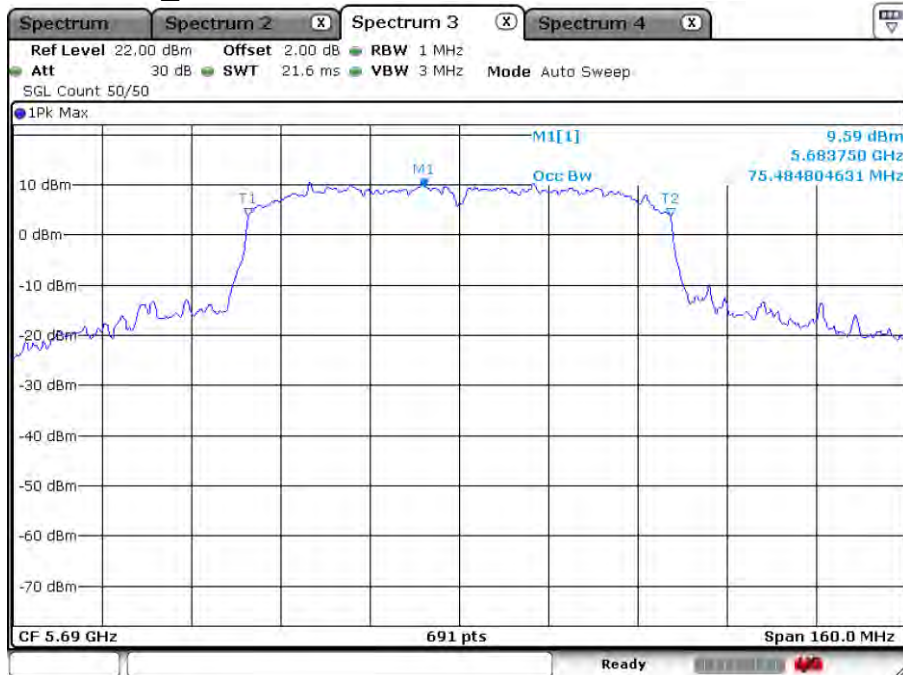


4.7.2.48 11AC80\_106 ANT 1



Date: 13.MAR.2020 13:06:14

4.7.2.49 11AC80\_138 ANT 1

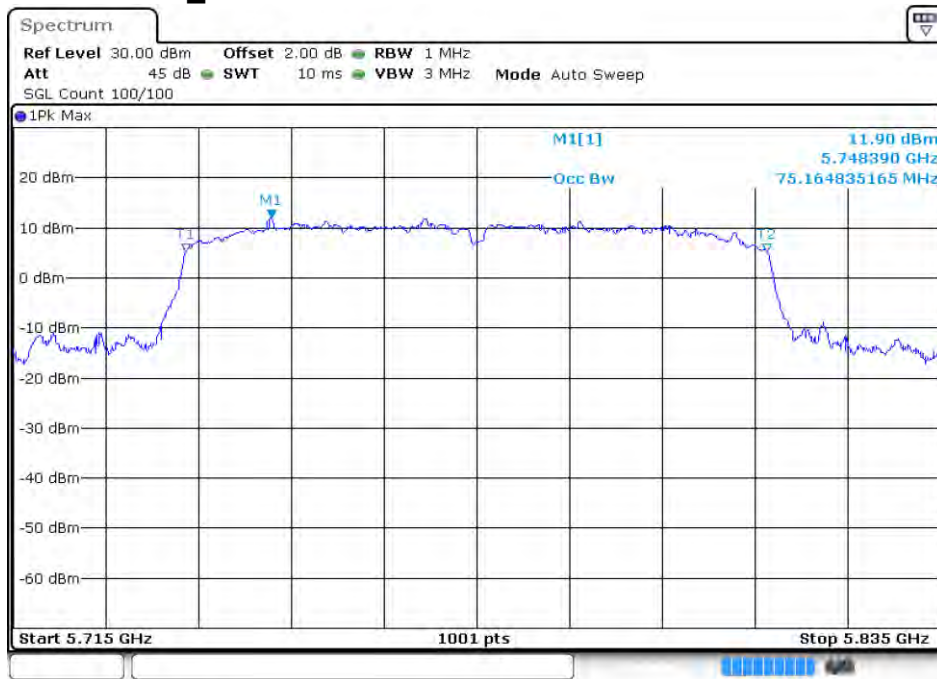


Date: 27.MAR.2020 08:26:29



**4.7.2.50**

**11AC80\_155 ANT 1**



Date: 13.MAR.2020 13:09:33



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### 4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20);</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT20);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT80).</p> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	



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**4.8.1 Test Results For Power Density**

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.)	Unit	Verdict
11A20	36	5180	ANT 1	4.44	dBm/MHz	PASS
	48	5240	ANT 1	4.66	dBm/MHz	PASS
	52	5260	ANT 1	4.68	dBm/MHz	PASS
	64	5320	ANT 1	5.03	dBm/MHz	PASS
	100	5500	ANT 1	5.73	dBm/MHz	PASS
	140	5700	ANT 1	5.41	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	7.06	dBm/MHz	PASS
	144(BandIII)	5720	ANT 1	4.33	dBm/500KHz	PASS
	149	5745	ANT 1	-0.64	dBm/500KHz	PASS
	165	5825	ANT 1	-1.47	dBm/500KHz	PASS
11N20	36	5180	ANT 1	4.17	dBm/MHz	PASS
	48	5240	ANT 1	4.60	dBm/MHz	PASS
	52	5260	ANT 1	4.59	dBm/MHz	PASS
	64	5320	ANT 1	4.85	dBm/MHz	PASS
	100	5500	ANT 1	5.63	dBm/MHz	PASS
	140	5700	ANT 1	4.74	dBm/MHz	PASS
	149	5745	ANT 1	-0.98	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	6.80	dBm/500KHz	PASS
	144(BandIII)	5720	ANT 1	4.06	dBm/500KHz	PASS
	165	5825	ANT 1	-2.01	dBm/500KHz	PASS
11N40	38	5190	ANT 1	-1.04	dBm/MHz	PASS
	46	5230	ANT 1	-2.15	dBm/MHz	PASS
	54	5270	ANT 1	0.87	dBm/MHz	PASS
	62	5310	ANT 1	1.32	dBm/MHz	PASS
	102	5510	ANT 1	1.86	dBm/MHz	PASS
	134	5670	ANT 1	1.68	dBm/MHz	PASS
	144(BandII-C)	5710	ANT 1	4.49	dBm/MHz	PASS
	144(BandIII)	5710	ANT 1	1.09	dBm/500KHz	PASS
	151	5755	ANT 1	-1.73	dBm/500KHz	PASS
	159	5795	ANT 1	-2.13	dBm/500KHz	PASS
11AC20	36	5180	ANT 1	2.44	dBm/MHz	PASS
	48	5240	ANT 1	4.44	dBm/MHz	PASS
	52	5260	ANT 1	4.49	dBm/MHz	PASS
	64	5320	ANT 1	4.75	dBm/MHz	PASS
	100	5500	ANT 1	5.58	dBm/MHz	PASS
	140	5700	ANT 1	4.82	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	6.70	dBm/MHz	PASS
	144(BandIII)	5720	ANT 1	3.85	dBm/500KHz	PASS
	149	5745	ANT 1	-0.77	dBm/500KHz	PASS
	165	5825	ANT 1	-1.78	dBm/500KHz	PASS
11AC40	38	5190	ANT 1	1.70	dBm/MHz	PASS
	46	5230	ANT 1	1.32	dBm/MHz	PASS



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	54	5270	ANT 1	2.44	dBm/MHz	PASS
	62	5310	ANT 1	1.96	dBm/MHz	PASS
	102	5510	ANT 1	2.83	dBm/MHz	PASS
	134	5670	ANT 1	2.44	dBm/MHz	PASS
	144(BandII-C)	5710	ANT 1	4.37	dBm/MHz	PASS
	144(BandIII)	5710	ANT 1	0.42	dBm/500KHz	PASS
	151	5755	ANT 1	-0.29	dBm/500KHz	PASS
	159	5795	ANT 1	-0.60	dBm/500KHz	PASS
11AC80	42	5210	ANT 1	-3.35	dBm/MHz	PASS
	58	5290	ANT 1	-1.73	dBm/MHz	PASS
	106	5530	ANT 1	-1.08	dBm/MHz	PASS
	138(BandII-C)	5690	ANT 1	1.96	dBm/MHz	PASS
	138(BandIII)	5690	ANT 1	-4.31	dBm/500KHz	PASS
	155	5775	ANT 1	-6.03	dBm/500KHz	PASS

## 4.8.2 Test plots For Power Density

### 4.8.2.1 11A20\_36 ANT 1



Date: 13.MAR.2020 13:11:54



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4.8.2.2 11A20\_48 ANT 1



Date: 13.MAR.2020 13:15:41

4.8.2.3 11A20\_52 ANT 1



Date: 13.MAR.2020 13:18:07



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4.8.2.4 11A20\_64 ANT 1



Date: 13.MAR.2020 13:20:45

4.8.2.5 11A20\_100 ANT 1



Date: 13.MAR.2020 13:21:54



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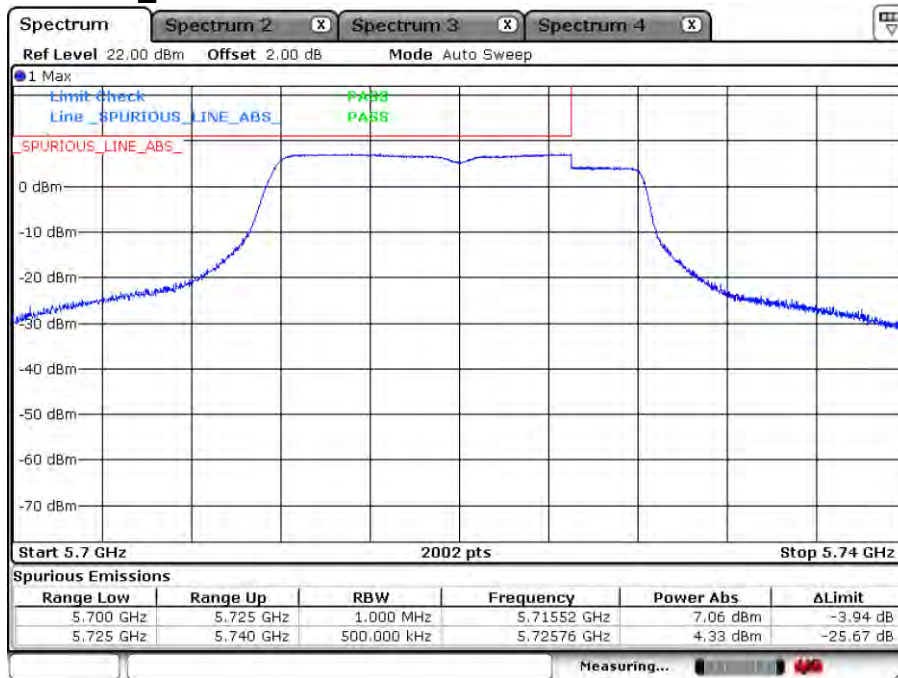


4.8.2.6 11A20\_140 ANT 1



Date: 13.MAR.2020 13:22:53

4.8.2.7 11A20\_144 ANT 1



Date: 27.MAR.2020 08:28:20





4.8.2.8 11A20\_149 ANT 1



Date: 13.MAR.2020 13:24:17

4.8.2.9 11A20\_165 ANT 1



Date: 13.MAR.2020 13:26:27



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4.8.2.10

11N20\_36 ANT 1



Date: 13.MAR.2020 13:31:08

4.8.2.11

11N20\_48 ANT 1



Date: 13.MAR.2020 13:33:00



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**4.8.2.12**

**11N20\_52 ANT 1**



Date: 13.MAR.2020 13:34:32

**4.8.2.13**

**11N20\_64 ANT 1**



Date: 13.MAR.2020 13:36:40



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4.8.2.14 11N20\_100 ANT 1



Date: 13.MAR.2020 13:39:46

4.8.2.15 11N20\_140 ANT 1



Date: 13.MAR.2020 13:41:00



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Shenzhen Branch

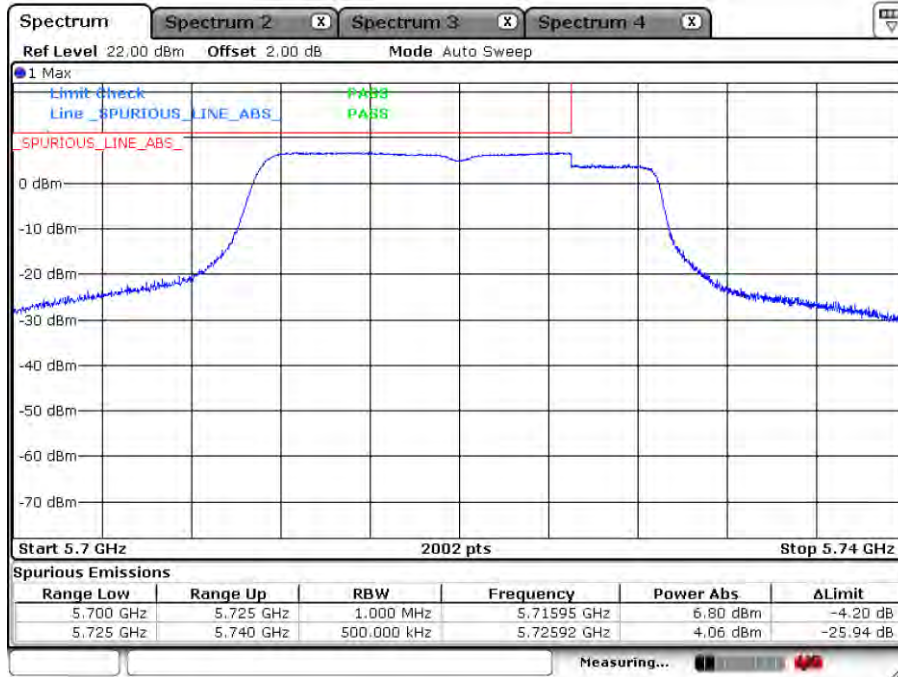
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4.8.2.16

11N20\_144 ANT 1



Date: 27.MAR.2020 08:36:04

4.8.2.17

11N20\_149 ANT 1



Date: 13.MAR.2020 13:42:31





4.8.2.18 11N20\_165 ANT 1



Date: 13.MAR.2020 13:44:30

4.8.2.19 11N40\_38 ANT 1



Date: 13.MAR.2020 13:58:20



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4.8.2.20

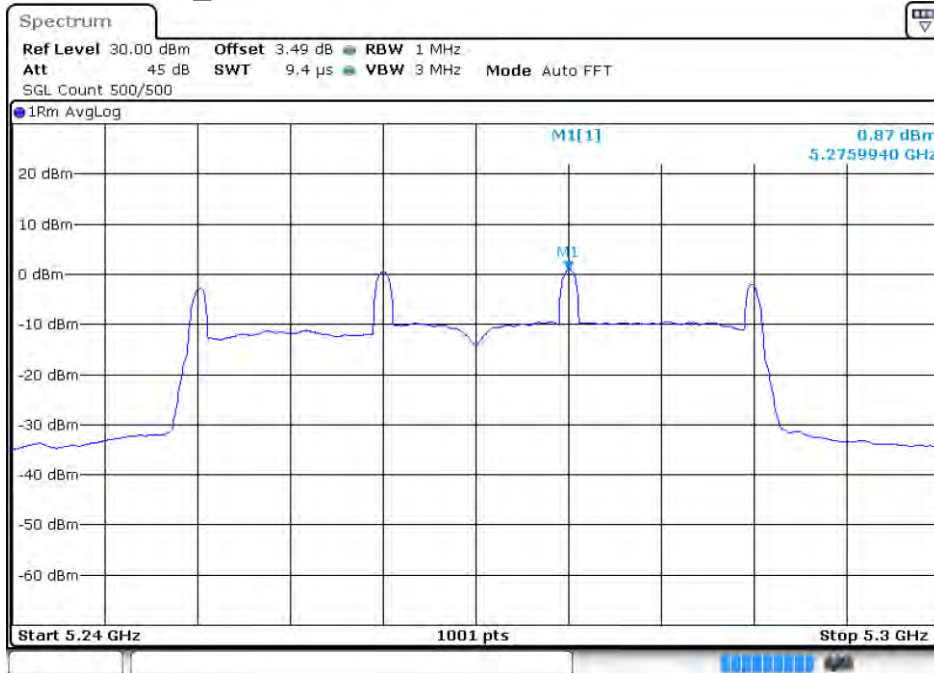
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Date: 13.MAR.2020 13:59:13

4.8.2.21

11N40\_54 ANT 1



Date: 13.MAR.2020 14:00:23

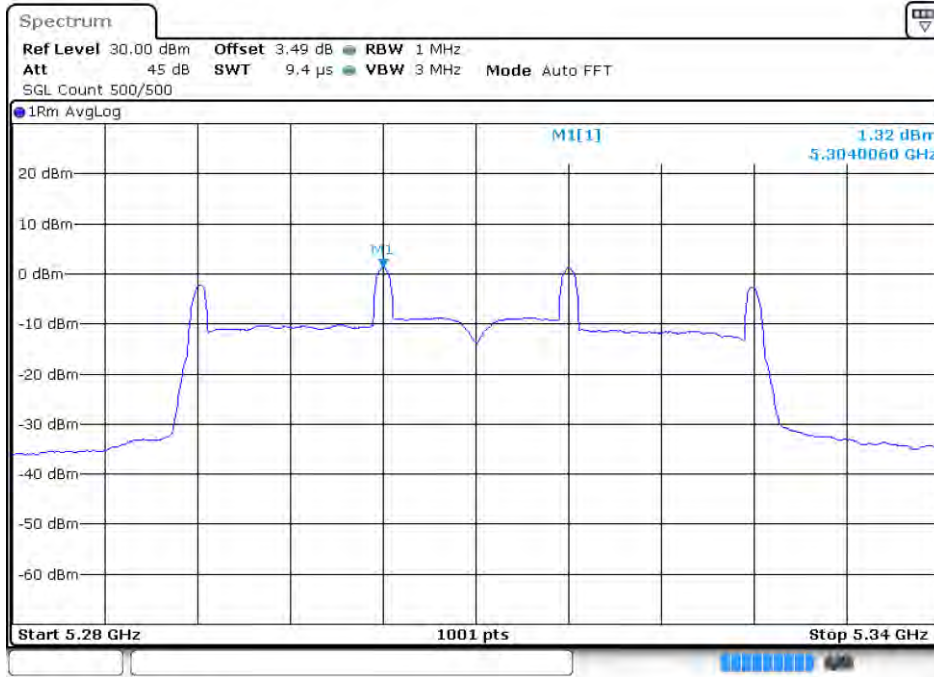


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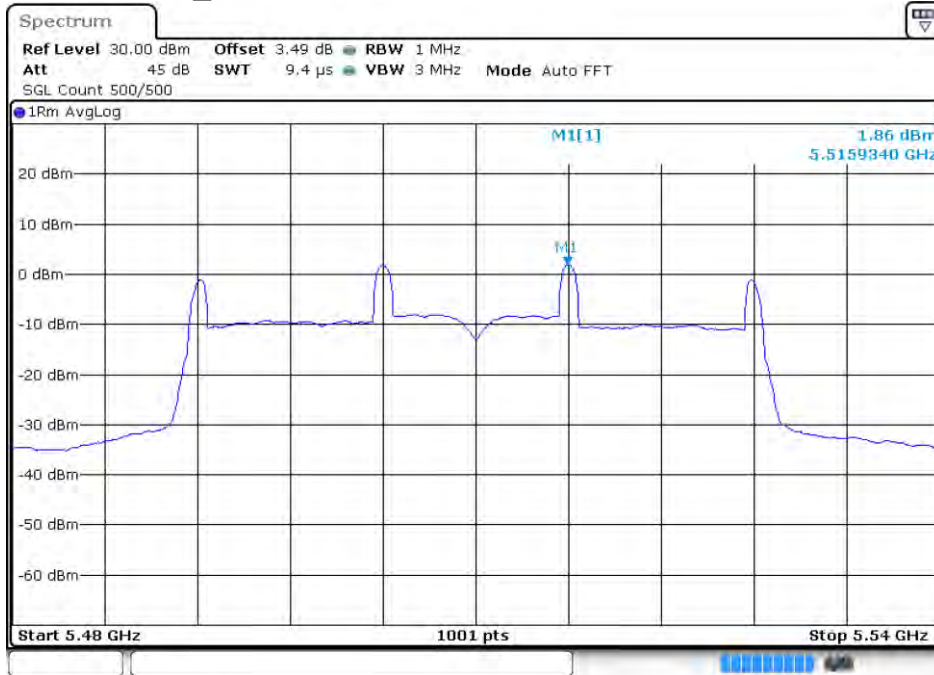


**4.8.2.22 11N40\_62 ANT 1**



Date: 13.MAR.2020 14:01:15

**4.8.2.23 11N40\_102 ANT 1**

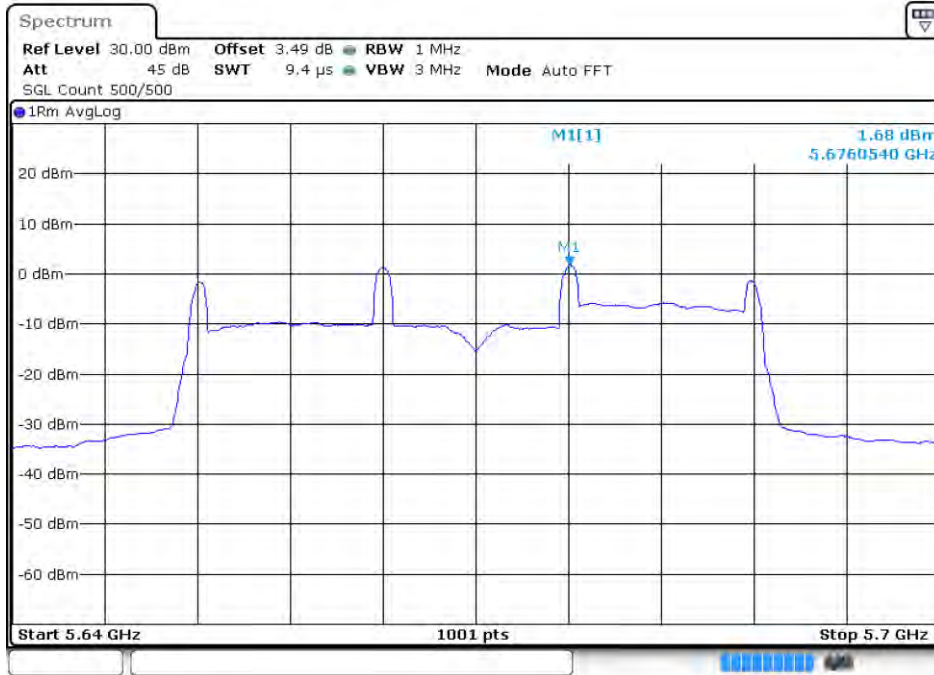


Date: 13.MAR.2020 14:02:24



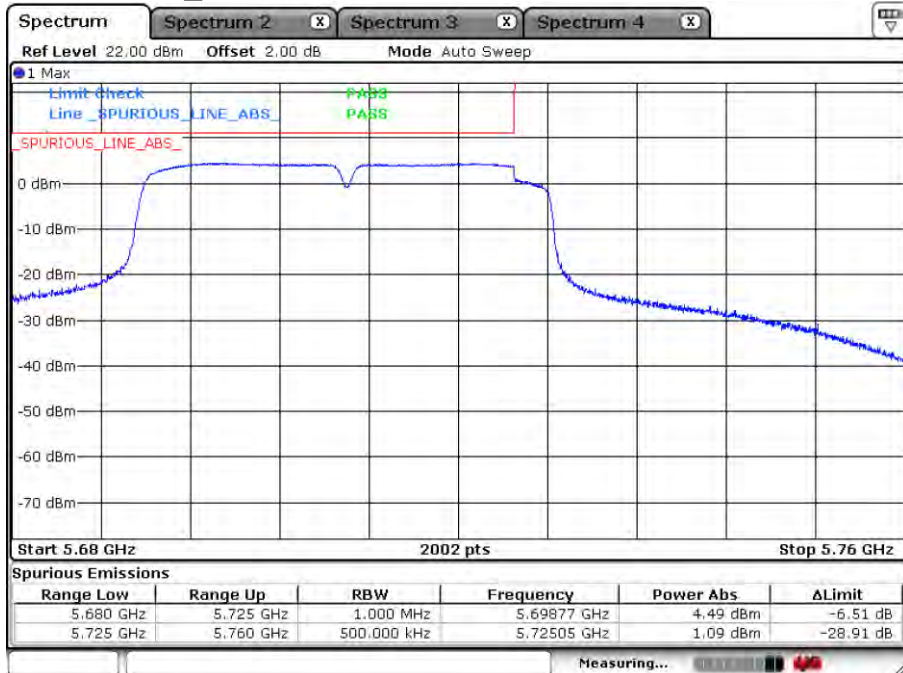


4.8.2.24 11N40\_134 ANT 1



Date: 13.MAR.2020 14:03:18

4.8.2.25 11N40\_142 ANT 1

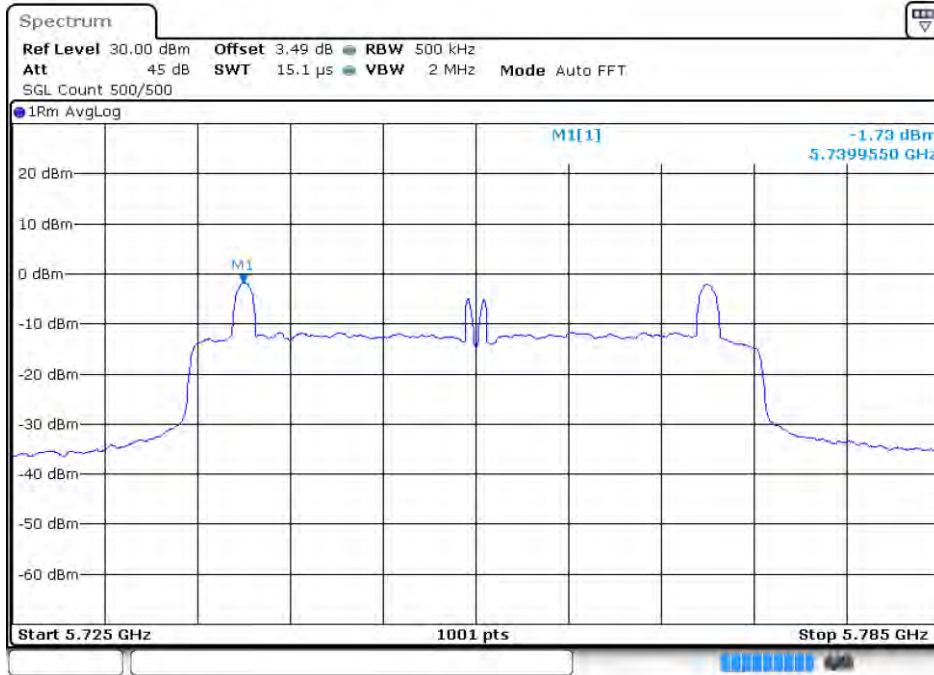


Date: 27.MAR.2020 08:43:19





4.8.2.26 11N40\_151 ANT 1



Date: 13.MAR.2020 14:04:31

4.8.2.27 11N40\_159 ANT 1



Date: 13.MAR.2020 14:05:30



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4.8.2.28 11AC20\_36 ANT 1



Date: 13.MAR.2020 13:46:07

4.8.2.29 11AC20\_48 ANT 1



Date: 13.MAR.2020 13:48:14

