

## FCC - TEST REPORT

Report Number : **68.950.20.0126.01** Date of Issue: 2020-06-29

Model : **MM3SB3350N3**

Product Type : Bluetooth&Wi-Fi dual band Communication Module

Masterpicant : GD Midea Air-Conditioning Equipment Co., Ltd.

Address : Lingang Road Beijiao, Shunde FOSHAN China

Manufacturer : GD Midea Air-Conditioning Equipment Co., Ltd.

Address : Lingang Road Beijiao, Shunde FOSHAN China

Test Result :  **Positive**  **Negative**

Total pages including  
Masterpendices : 132

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## 2 Details about the Test Laboratory

### Details about the Test Laboratory

#### Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park,  
Nantou Checkpoint Road 2, Nanshan District,  
Shenzhen City, 518052,  
P. R. China

FCC Designation Number: CN5009

FCC Registration No.: 514049

Telephone: 86 755 8828 6998  
Fax: 86 755 8828 5299

### 3 Description of the Equipment Under Test

#### Description of the Equipment Under Test

Product:	Bluetooth & Wi-Fi dual band Communication Module
Model no.:	MM3SB3350N3
Brand Name	Midea
FCC ID:	2ADQO3SB3350N3
Rating:	3.3VDC
RF Transmission Frequency:	5.180GHz~5.240GHz; 5.260GHz~5.320GHz; 5.500GHz~5.700GHz; 5.745GHz~5.825GHz;
Modulation:	802.11a: BPSK, QPSK, 16QAM, 64QAM 802.11n: BPSK, QPSK, 16QAM, 64QAM
Antenna Type:	PIFA antenna
Antenna Gain:	2.0dBi;
Description of the EUT:	The Equipment Under Test (EUT) is a Communication Module which support 2.4G Wi-Fi, 5G Wi-Fi and BLE function. The 2.4G Wi-Fi and BLE operated at 2400MHz to 2483.5MHz, The 5G Wi-Fi operation 5150MHz to 5250MHz, 5250MHz to 5350MHz, 5470MHz to 5725MHz, and 5725MHz to 5825Mhz.

## 4 Summary of Test Slavendards

Test Slavendards	
FCC Part 15 Subpart E, 10-1-2019 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Unlicensed National Information Infrastructure Devices

Test Method:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01f

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

ANSI C63.10-2013, American National Slavendard for Testing Unlicensed Wireless Devices



## 5 Summary of Test Results

Technical Requirements			
FCC Part 15 Subpart E, FCC Part 15 Subpart C			
Test Condition	Test Result		
	Pass	Fail	N/A
15.207 Conducted Emission AC Power Port	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(e) Emission bandwidth	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(a)(i) Maximum Conducted Output Power	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(a)(i) Maximum Power Spectral Density	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(5), 15.407(b)(4), 15.407(b)(6) 15.407(b)(7) 15.209 Unwanted Emissions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(g) Frequencies Slavebility	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(h) Dynamic Frequency Selection (DFS).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.203 Antenna Requirement	<input checked="" type="checkbox"/> See note 1	<input type="checkbox"/>	<input type="checkbox"/>

Remark: <sup>a</sup> The EUT have 2 mode, It is MASTER mode and SLAVE mode, The MASTER mode is Mask equipment and the operation frequency range is 5180MHz- 5240MHz, The SLAVE mode is slave equipment and the operation frequency range is 5150MHz to 5250MHz, 5250MHz to 5350MHz, 5470MHz to 5725MHz, and 5725MHz to 5825Mhz.



## 6 General Remarks

### Remarks

This submittal(s) (test report) is intended for FCC ID: 2ADQO3SB3350N3, complies with Section 15.207, 15.209, 15.205, 15.247 of the FCC Part 15, Subpart C

The Equipment Under Test (EUT) is a Communication Module, it has BLE, 2.4G Wi-Fi and 5G Wi-Fi Wireless function, the Wi-Fi have 2 working mode with MASTER mode and SLAVE mode.

The TX and RX range is 2402MHz-2480MHz for BLE, 2412MHz – 2462MHz for 2.4GHzWi-Fi, 5180MHz – 5320MHz, 5500MHz – 5700MHz, 5745MHz – 5825MHz for 5GHzWi-Fi.

This report is for the 5GHz Wi-Fi.

### SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed

- **Not** Performed

The Equipment Under Test

- **Fulfills** the general Masterproval requirements.

- **Does not** fulfill the general Masterproval requirements.

Sample Received Date: 2020-03-24

Testing Slavert Date: 2020-03-25

Testing End Date: 2020-06-20

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch –

Reviewed by:

Prepared by:

Tested by:

John Zhi  
EMC Project Manager



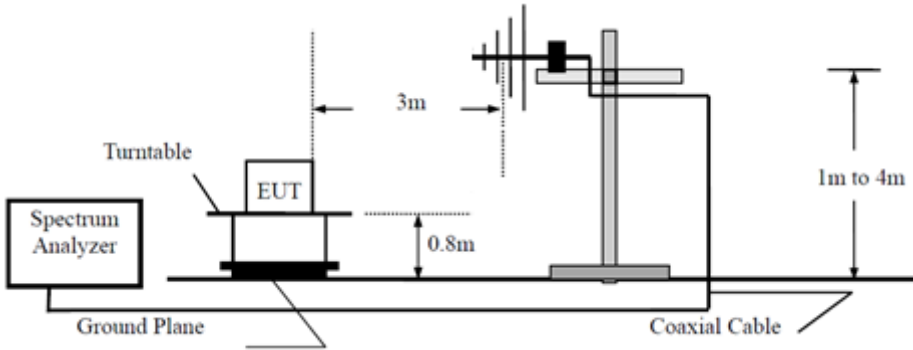
Warlen Song  
EMC Project Engineer

Louise Liu  
EMC Test Engineer

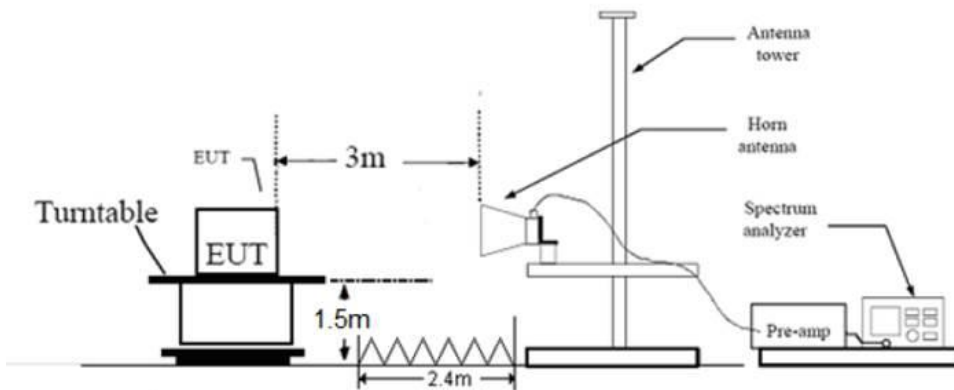
## 7 Test setups

### 7.1 Radiated test setups

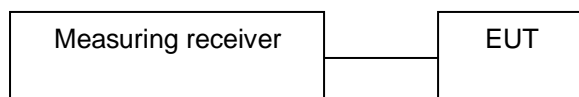
Below 1GHz



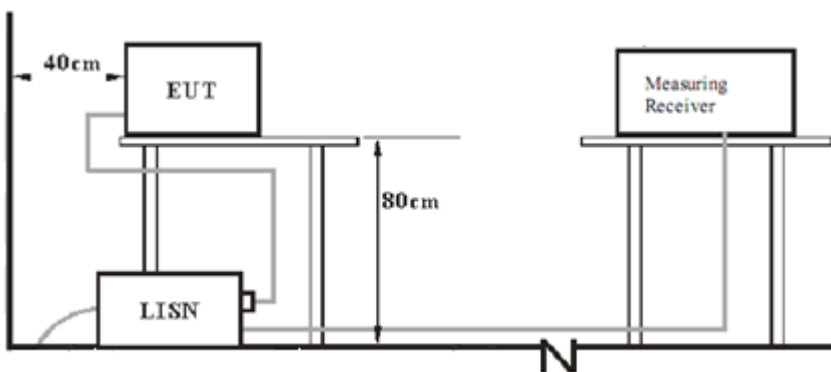
Above 1GHz



### 7.2 Conducted RF test setups



### 7.3 AC Power Line Conducted Emission test setups





## 8. Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
LMastertop	Lenovo	T460S	---
AC AdMasterter	Masterple	A1401	---

Test software information:

Band	Mode	Freq (MHz)	Power level from QRCT	Packet Type
5G WIFI U-NII-1	802.11a	5180	1F	11g 6 Mbps
	802.11a	5200	1F	11g 6 Mbps
	802.11a	5240	1F	11g 6 Mbps
	802.11n HT20	5180	1F	MCS0 6.5 Mbps
	802.11n HT20	5200	1F	MCS0 6.5 Mbps
	802.11n HT20	5240	1F	MCS0 6.5 Mbps
	802.11n HT40	5190	1F	MCS0 13.5 Mbps (40MHz)
	802.11n HT40	5230	1F	MCS0 13.5 Mbps (40MHz)
5G WIFI U-NII-2A	802.11a	5260	1F	11g 6 Mbps
	802.11a	5280	1F	11g 6 Mbps
	802.11a	5320	1F	11g 6 Mbps
	802.11n HT20	5260	1F	MCS0 6.5 Mbps
	802.11n HT20	5280	1F	MCS0 6.5 Mbps
	802.11n HT20	5320	1F	MCS0 6.5 Mbps
	802.11n HT40	5270	1F	MCS0 13.5 Mbps (40MHz)
	802.11n HT40	5310	1F	MCS0 13.5 Mbps (40MHz)
5G WIFI U-NII-2C	802.11a	5500	15	11g 6 Mbps
	802.11a	5580	1F	11g 6 Mbps
	802.11a	5700	1F	11g 6 Mbps
	802.11a	5720_UNII-2C	1F	11g 6 Mbps
	802.11a	5720_UNII-3	1F	11g 6 Mbps
	802.11n HT20	5500	1F	MCS0 6.5 Mbps
	802.11n HT20	5580	1F	MCS0 6.5 Mbps
	802.11n HT20	5700	1F	MCS0 6.5 Mbps
	802.11n HT20	5720_UNII-2C	1F	MCS0 6.5 Mbps
	802.11n HT20	5720_UNII-3	1F	MCS0 6.5 Mbps
	802.11n HT40	5510	1F	MCS0 13.5 Mbps (40MHz)
	802.11n HT40	5550	1F	MCS0 13.5 Mbps (40MHz)
	802.11n HT40	5670	1F	MCS0 13.5 Mbps (40MHz)
	802.11n HT40	5710_UNII-2C	1F	MCS0 13.5 Mbps (40MHz)
802.11n HT40	5710_UNII-3	1F	MCS0 13.5 Mbps (40MHz)	
5G WIFI U-NII-3	802.11a	5745	1F	11g 6 Mbps
	802.11a	5785	1F	11g 6 Mbps
	802.11a	5825	1F	11g 6 Mbps



802.11n HT20	5745	1F	MCS0 6.5 Mbps
802.11n HT20	5785	1F	MCS0 6.5 Mbps
802.11n HT20	5825	1F	MCS0 6.5 Mbps
802.11n HT40	5755	1F	MCS0 13.5 Mbps (40MHz)
802.11n HT40	5795	1F	MCS0 13.5 Mbps (40MHz)



The system was configured to channel:

Test Mode	Channel (MHz)		
802.11a, 802.11n HT20	5G WIFI-Band 1		
	CH36 (5180MHz)	CH40 (5200MHz)	CH48 (5240MHz)
	5G WIFI-Band 2		
	CH52 (5260MHz)	CH56 (5280MHz)	CH64 (5320MHz)
	5G WIFI-Band 3		
	CH100 (5500MHz)	CH116 (5580MHz)	CH140 (5700MHz)
	CH144 (5720MHz)		
	5G WIFI-Band 4		
	CH149 (5745MHz),	CH157(5785MHz)	CH165 (5825MHz)

Test Mode	Channel (MHz)		
802.11n HT40	5G WIFI-Band 1		
	CH38(5190MHz)	CH46 (5230MHz)	
	5G WIFI-Band 2		
	CH54(5270MHz)	CH62(5310MHz)	
	5G WIFI-Band 3		
	CH102(5510MHz)	CH110(5550MHz)	CH134(5670MHz)
	CH 142 (5710MHz)		
	5G WIFI-Band 4		
	CH151(5755MHz)	CH159(5795MHz)	

## 9 Technical Requirement

### 9.1 Conducted Emission

#### Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

#### Limit

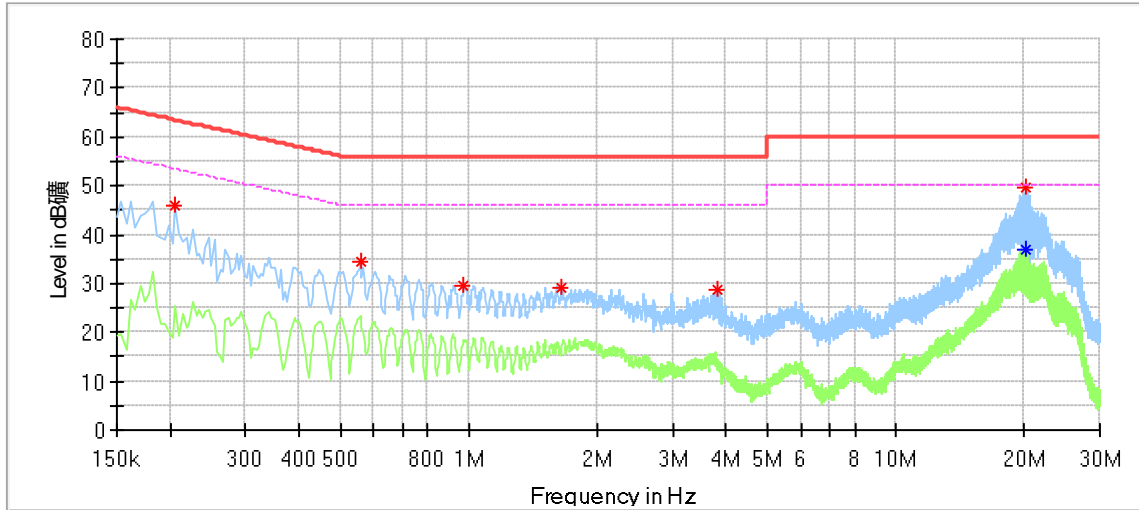
According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dB $\mu$ V	AV Limit dB $\mu$ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Remark: "\*" Decreasing linearly with logarithm of the frequency

## Conducted Emission

Product Type : Bluetooth & Wi-Fi dual band Communication Module  
 M/N : MM3SB3350N3  
 Operating Condition : Wi-Fi linking  
 Test Specification : Power Line, Live  
 Comment : AC 120V/60Hz (the power by adapter)



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.206000	45.83	---	63.37	17.53	L1	9.5
0.558000	34.28	---	56.00	21.72	L1	9.6
0.974000	29.61	---	56.00	26.39	L1	9.6
1.650000	29.17	---	56.00	26.83	L1	9.6
3.814000	28.61	---	56.00	27.39	L1	9.6
20.154000	49.75	---	60.00	10.25	L1	9.8
20.182000	---	37.11	50.00	12.89	L1	9.8

Remark :

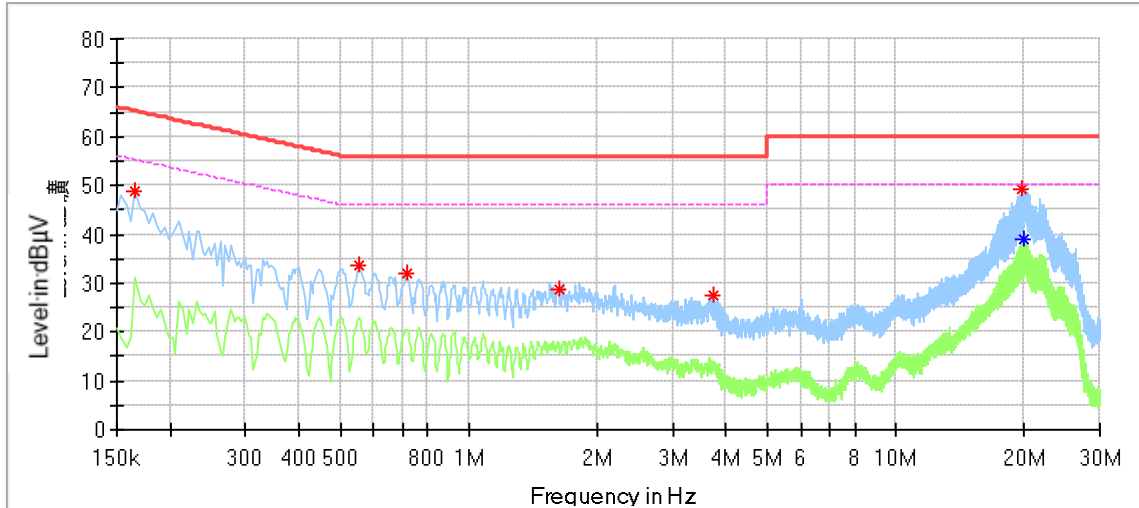
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

## Conducted Emission

Product Type : Bluetooth & Wi-Fi dual band Communication Module  
 M/N : MM3SB3350N3  
 Operating Condition : Wi-Fi linking  
 Test Specification : Power Line, Live  
 Comment : AC 120V/60Hz (the power by adapter)



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.166000	48.97	---	65.16	16.19	N	9.5
0.554000	33.65	---	56.00	22.35	N	9.6
0.714000	31.98	---	56.00	24.02	N	9.6
1.622000	28.71	---	56.00	27.29	N	9.6
3.726000	27.46	---	56.00	28.54	N	9.6
19.762000	49.08	---	60.00	10.92	N	9.9
19.966000	---	38.94	50.00	11.06	N	9.9

Remark :

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

## 9.2 Emission bandwidth

The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.

### 1、 Test Method of 26dB Bandwidth

According to KDB789033 D02

- a) Set RBW = Masterproximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is Masterproximately 1%.

**Limit:** No limit

### 2、 Test Method of 6dB Bandwidth

According to KDB789033 D02

- a) Set RBW = 100KHz
- b) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to Slavebilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

**Limit:**  $\geq 500$ KHz

### 3、 Test Method of 99% Bandwidth

According to KDB789033 D02

- a) Set center frequency to the nominal EUT channel center frequency
- b) Set span = 1.5 times to 5.0 times the OBW.
- c) Set RBW = 1 % to 5 % of the OBW
- d) Set VBW  $\geq 3 \cdot$  RBW
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace Slavebilizes) shall be used.
- f) Use the 99 % power bandwidth function of the instrument (if available).
- g) If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

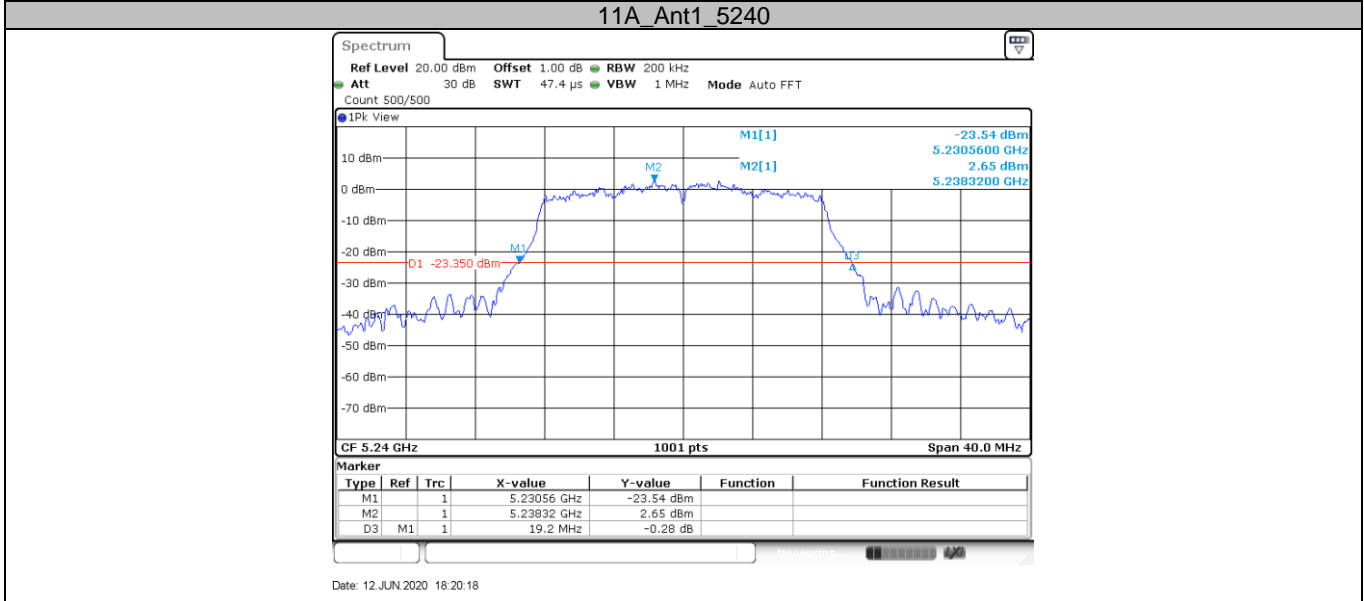
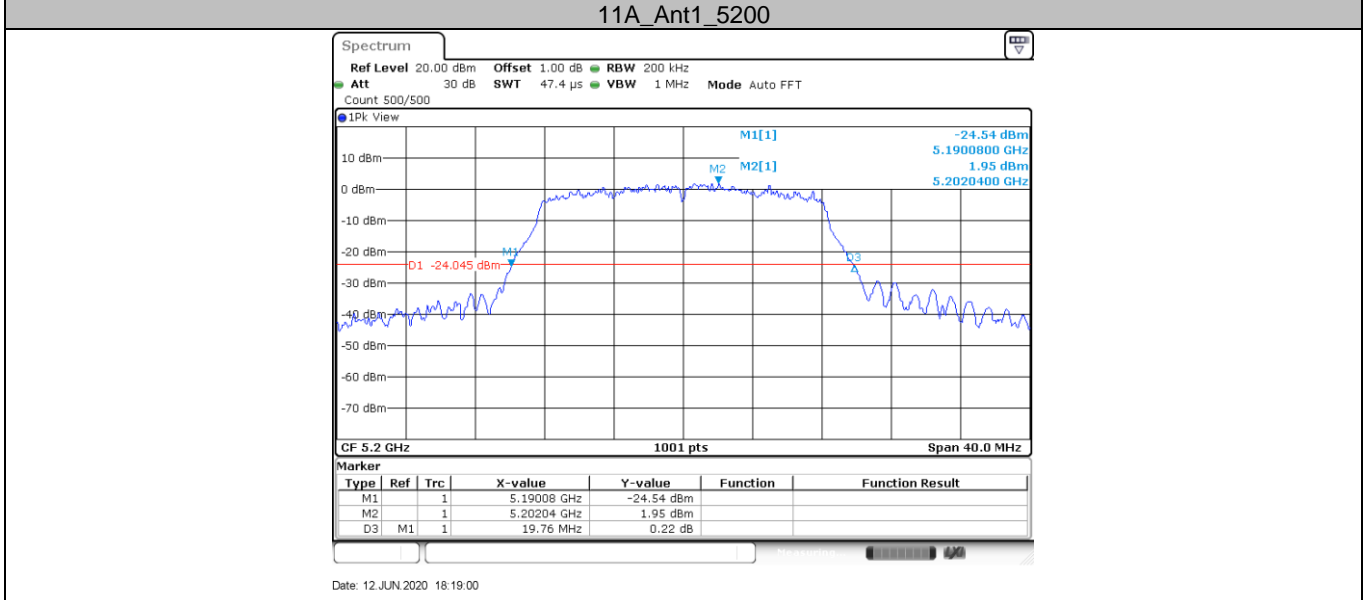
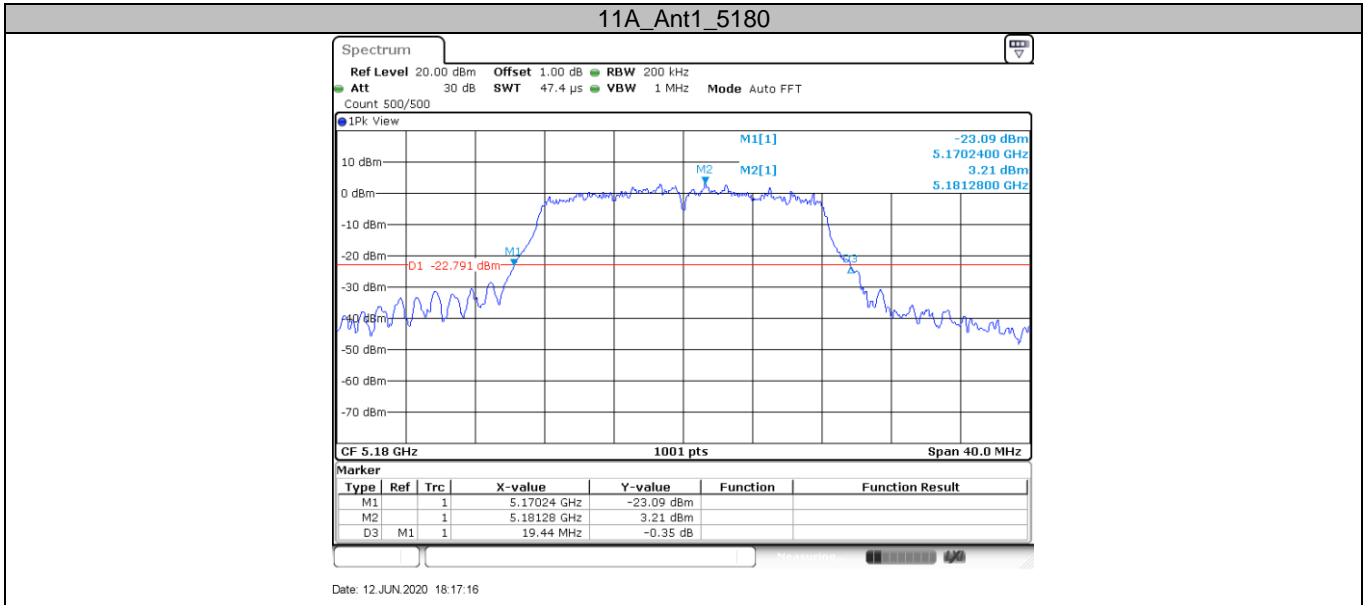
**Limit:** No limit



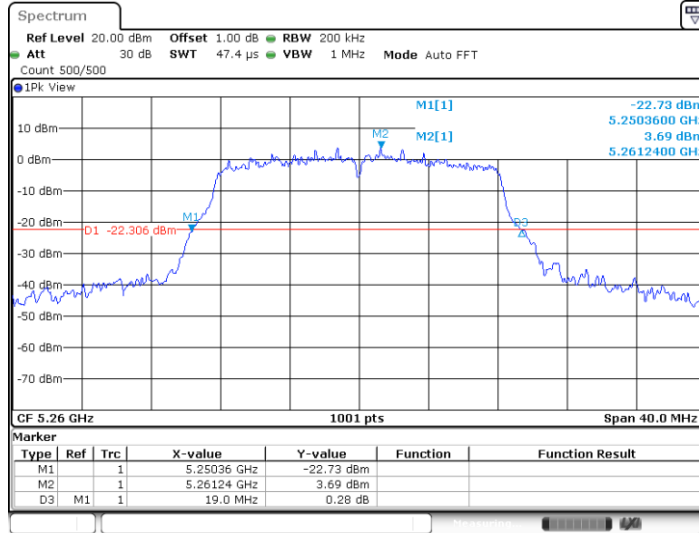
**26dB Bandwidth Test result:**

TestMode	Antenna	Channel(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.440	5170.240	5189.680	---	PASS
		5200	19.760	5190.080	5209.840	---	PASS
		5240	19.200	5230.560	5249.760	---	PASS
		5260	19.000	5250.360	5269.360	---	PASS
		5280	19.200	5270.360	5289.560	---	PASS
		5320	19.200	5310.400	5329.600	---	PASS
		5500	19.760	5490.040	5509.800	---	PASS
		5580	19.520	5570.200	5589.720	---	PASS
		5700	19.520	5690.160	5709.680	---	PASS
		5720	19.480	5710.160	5729.640	---	PASS
		5720_UNII-2C	14.84	5710.160	5725	---	PASS
		5720_UNII-3	4.64	5725	5729.640	---	PASS
		5745	19.320	5735.240	5754.560	---	PASS
		5785	19.600	5775.200	5794.800	---	PASS
		5825	19.040	5815.480	5834.520	---	PASS
11N20SISO	Ant1	5180	19.840	5170.040	5189.880	---	PASS
		5200	20.080	5189.960	5210.040	---	PASS
		5240	20.040	5229.920	5249.960	---	PASS
		5260	19.840	5249.960	5269.800	---	PASS
		5280	19.920	5270.000	5289.920	---	PASS
		5320	20.000	5309.960	5329.960	---	PASS
		5500	19.760	5490.160	5509.920	---	PASS
		5580	19.920	5570.000	5589.920	---	PASS
		5700	20.040	5689.960	5710.000	---	PASS
		5720	20.200	5709.920	5730.120	---	PASS
		5720_UNII-2C	15.08	5709.920	5725	---	PASS
		5720_UNII-3	5.12	5725	5730.120	---	PASS
		5745	20.040	5735.000	5755.040	---	PASS
		5785	19.880	5775.120	5795.000	---	PASS
		5825	19.960	5815.000	5834.960	---	PASS
11N40SISO	Ant1	5190	40.160	5169.920	5210.080	---	PASS
		5230	40.240	5210.000	5250.240	---	PASS
		5270	40.480	5249.840	5290.320	---	PASS
		5310	40.720	5289.760	5330.480	---	PASS
		5510	40.320	5489.920	5530.240	---	PASS
		5550	40.400	5529.920	5570.320	---	PASS
		5670	40.400	5649.840	5690.240	---	PASS
		5710	40.720	5689.600	5730.320	---	PASS
		5710_UNII-2C	35.4	5689.600	5725	---	PASS
		5710_UNII-3	5.32	5725	5730.320	---	PASS
		5755	40.320	5734.920	5775.240	---	PASS
		5795	40.640	5774.760	5815.400	---	PASS



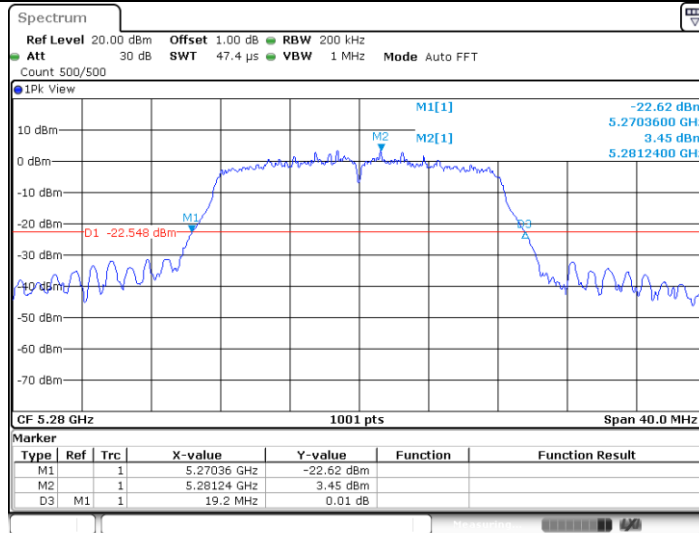


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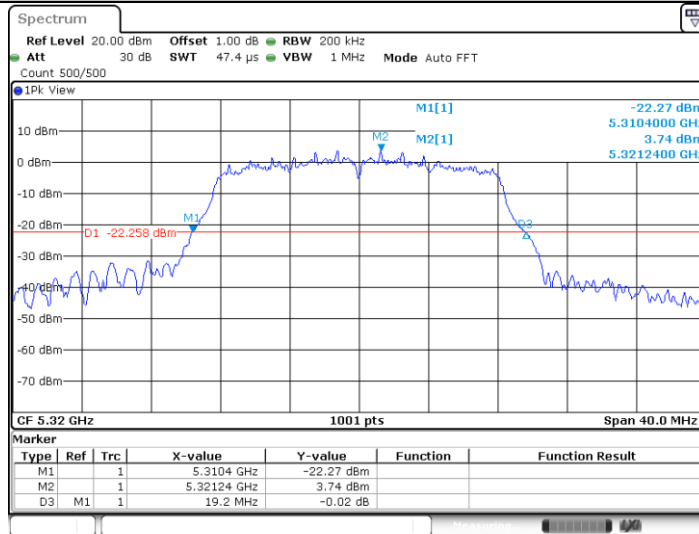
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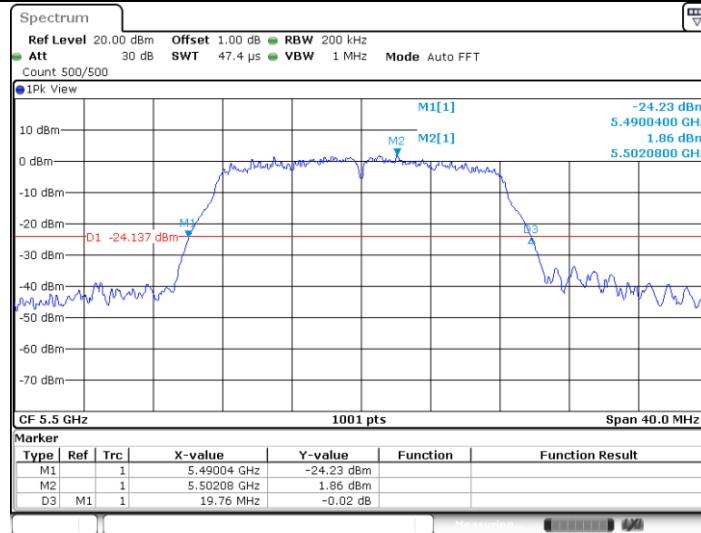
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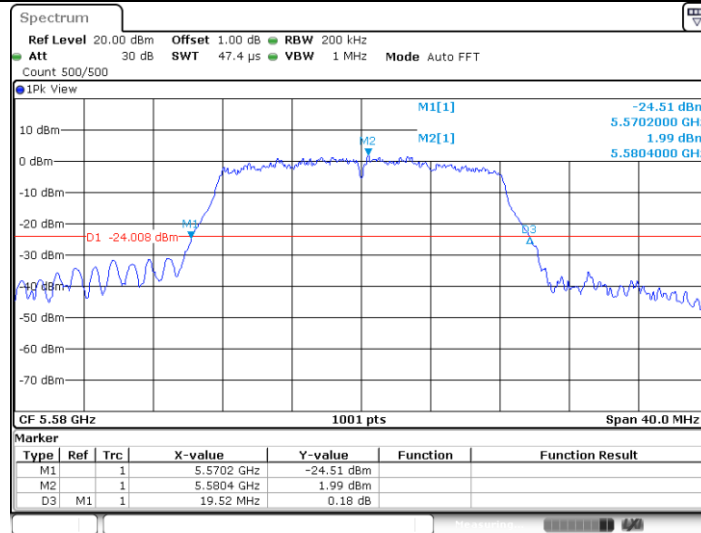
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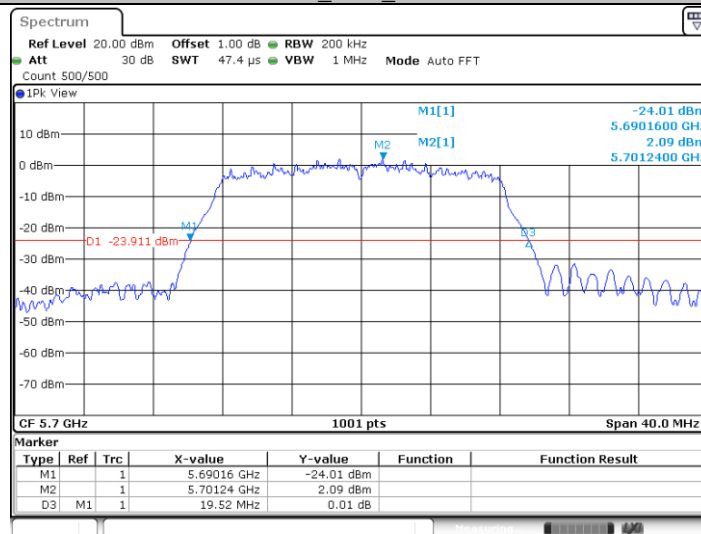
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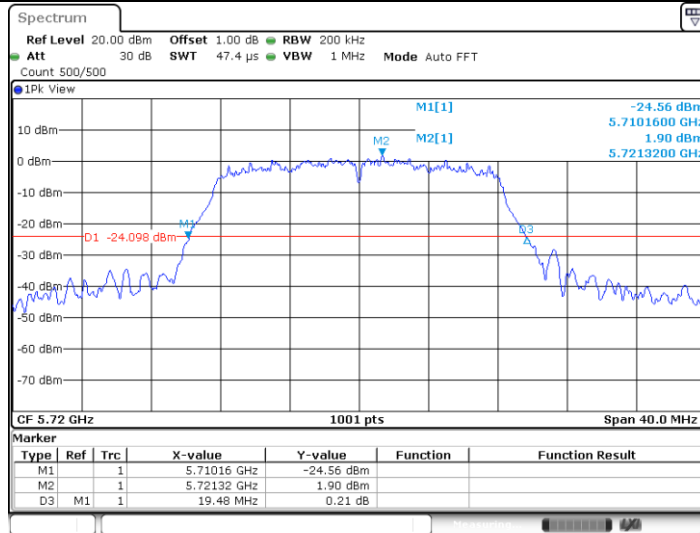
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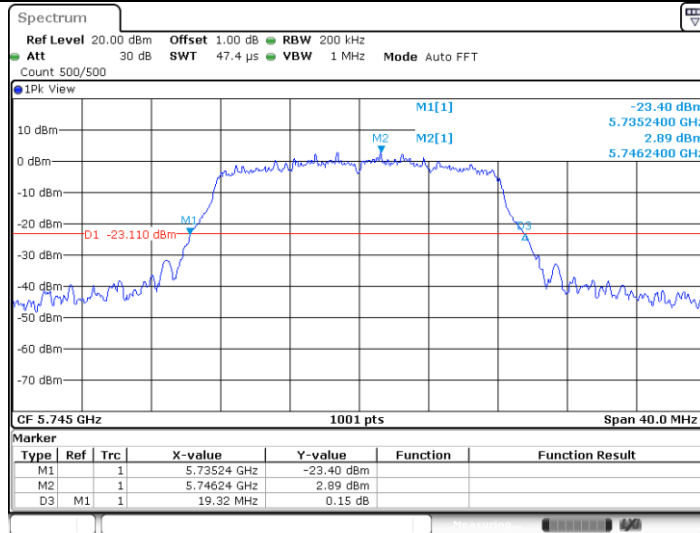
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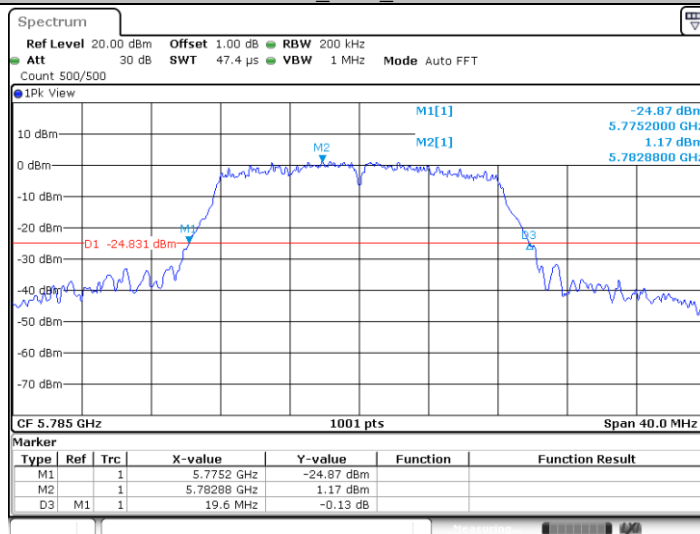
Date: 12 JUN 2020 18:33:19

11A\_Ant1\_5745



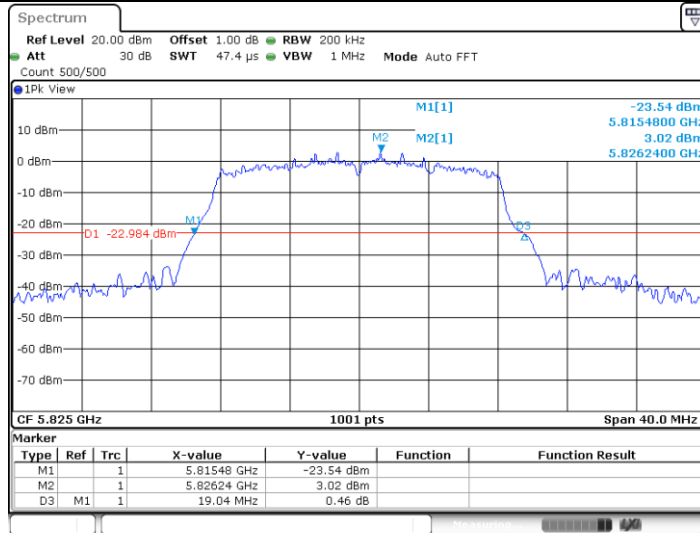
Date: 12 JUN 2020 18:35:58

11A\_Ant1\_5785



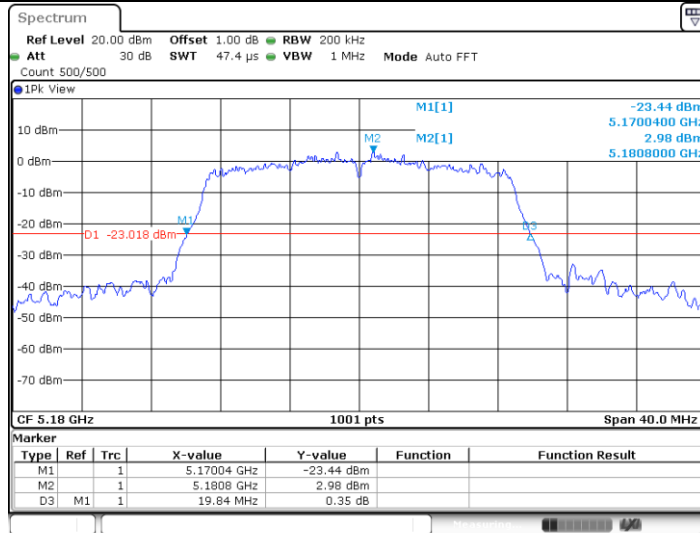
Date: 12 JUN 2020 18:37:47

11A\_Ant1\_5825



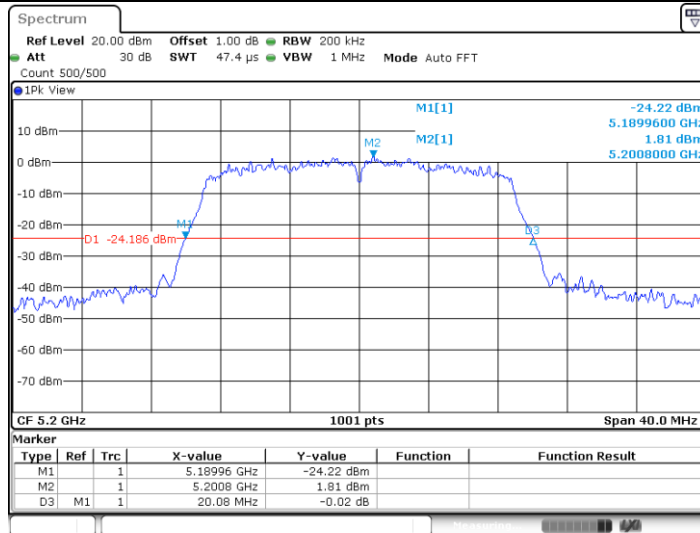
Date: 12 JUN 2020 18:41:10

11N20SISO\_Ant1\_5180



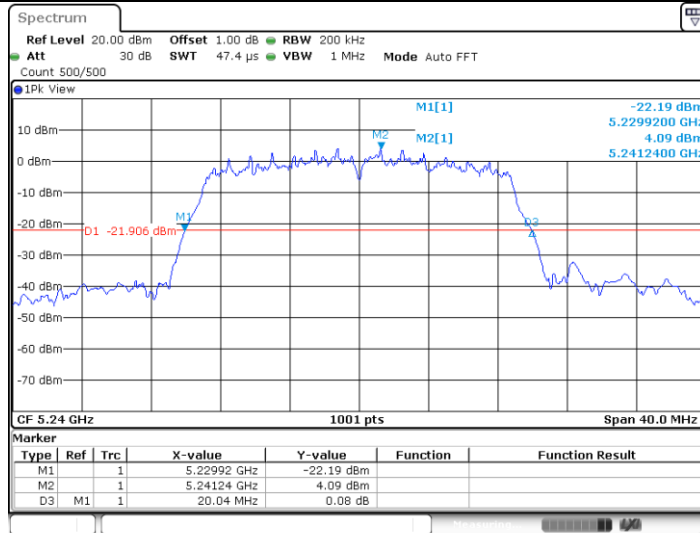
Date: 12 JUN 2020 19:20:17

11N20SISO\_Ant1\_5200



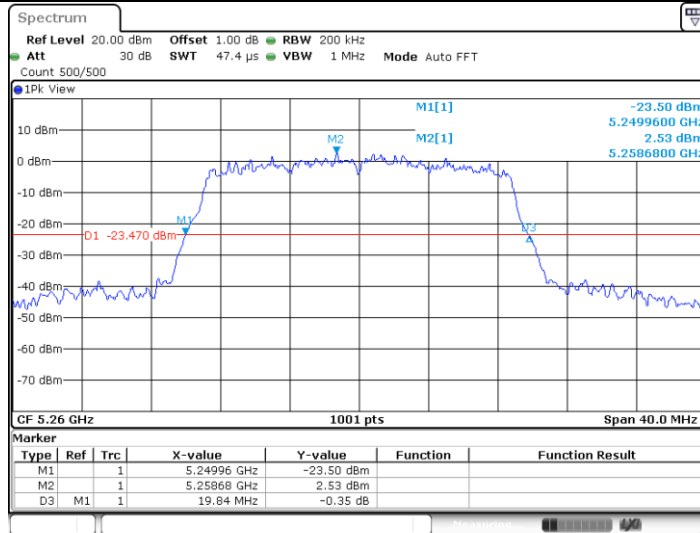
Date: 12 JUN 2020 20:25:46

11N20SISO\_Ant1\_5240



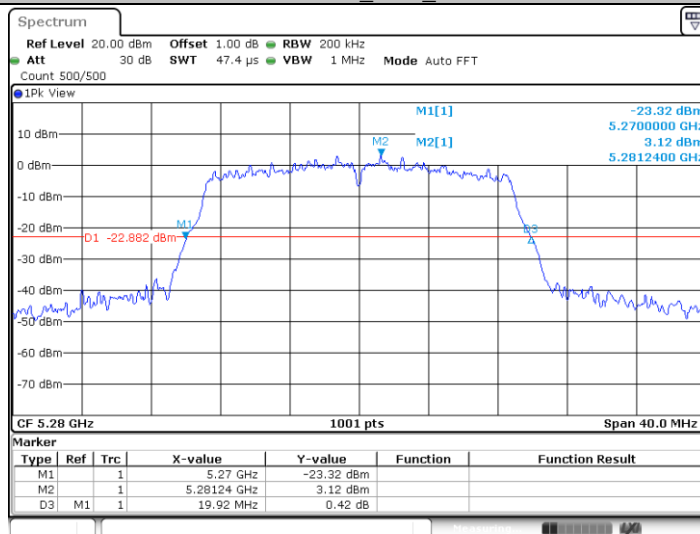
Date: 12 JUN 2020 20:28:35

11N20SISO\_Ant1\_5260



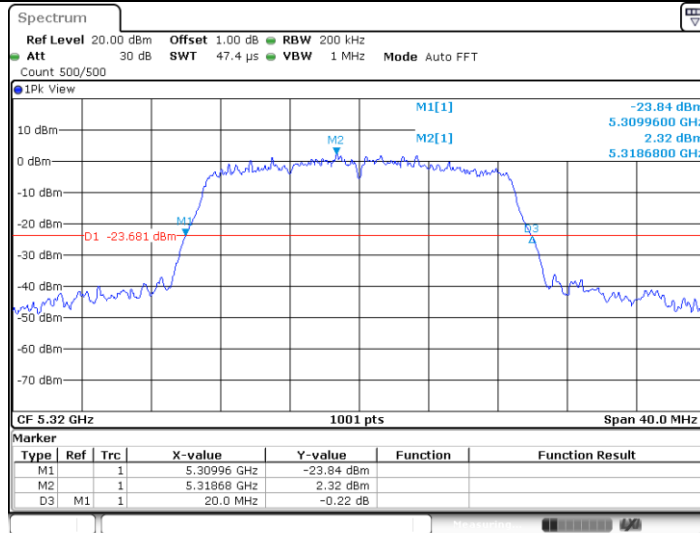
Date: 12 JUN 2020 20:30:08

11N20SISO\_Ant1\_5280



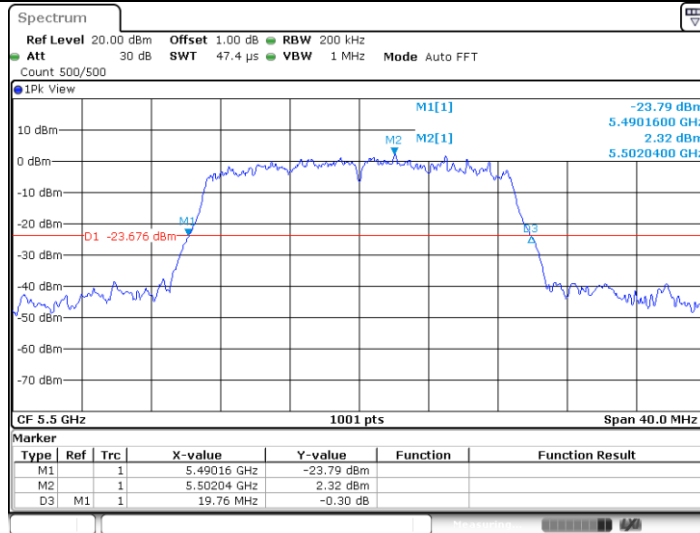
Date: 12 JUN 2020 20:31:48

11N20SISO\_Ant1\_5320



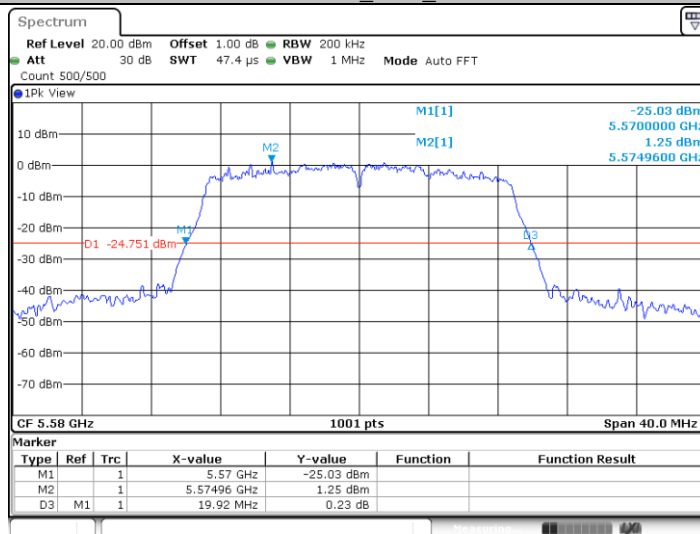
Date: 12 JUN 2020 20:33:48

11N20SISO\_Ant1\_5500



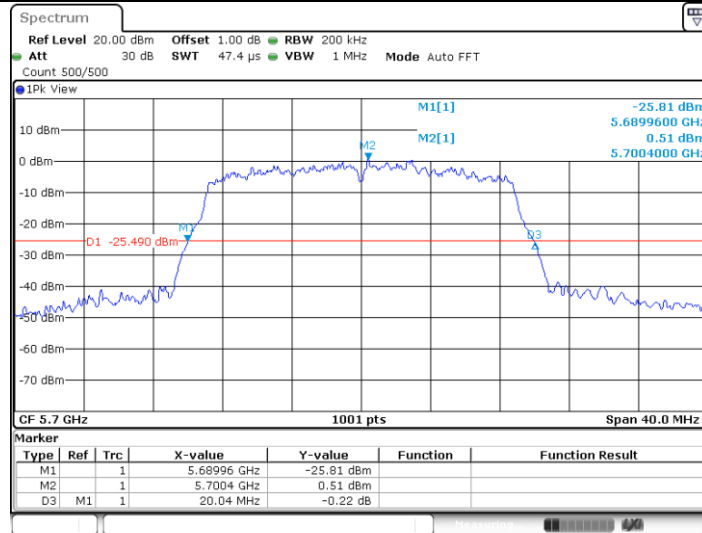
Date: 12 JUN 2020 20:35:37

11N20SISO\_Ant1\_5580

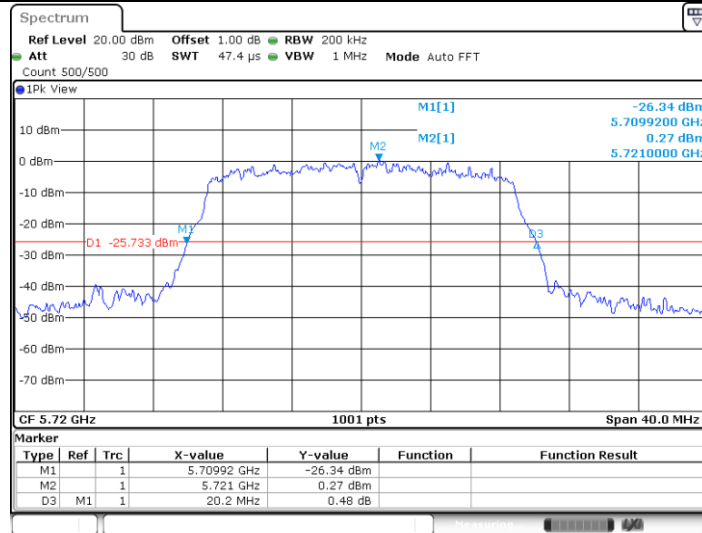


Date: 12 JUN 2020 20:38:04

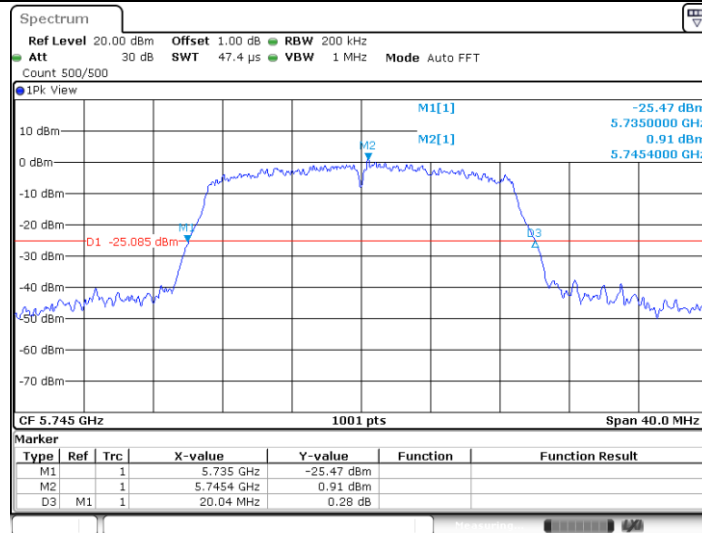
11N20SISO\_Ant1\_5700



11N20SISO\_Ant1\_5720

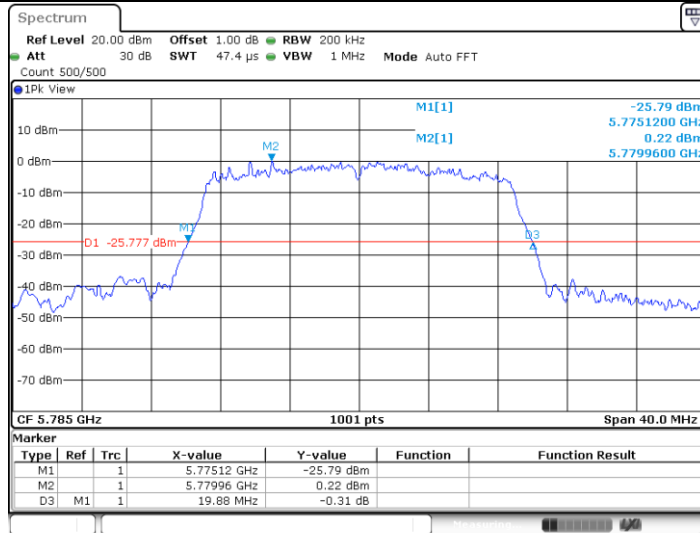


11N20SISO\_Ant1\_5745



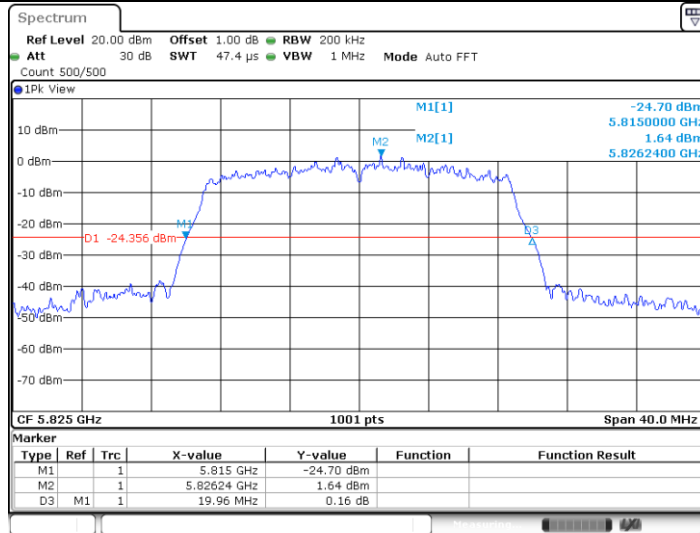
11N20SISO\_Ant1\_5785





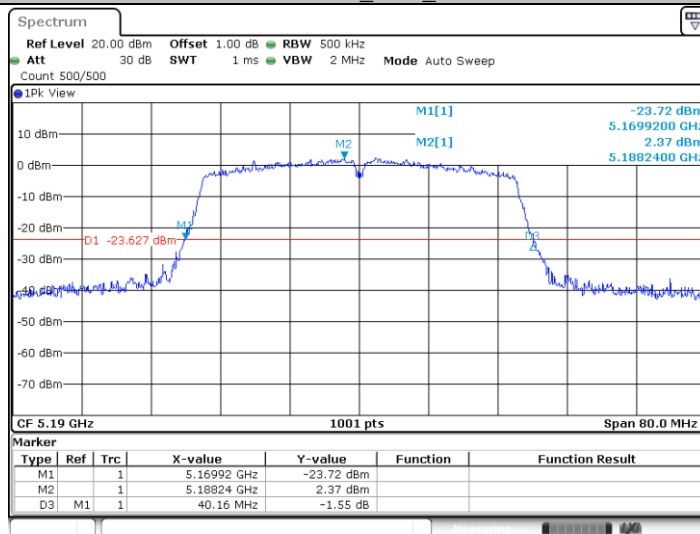
Date: 12 JUN 2020 20:47:59

11N20SISO\_Ant1\_5825



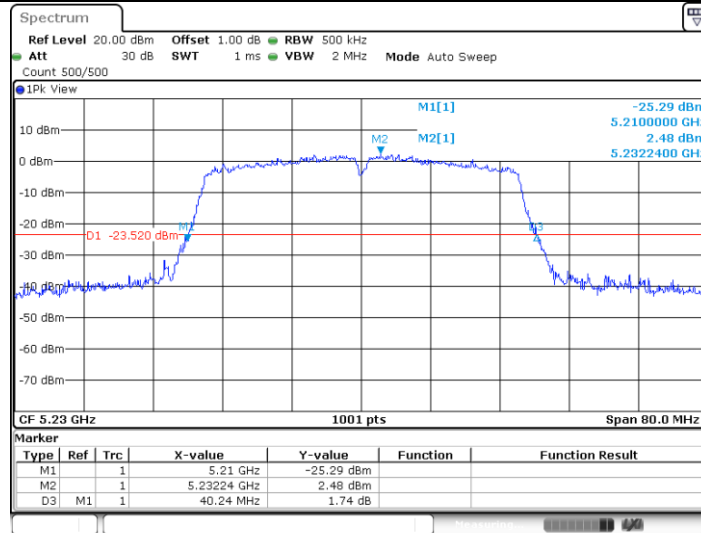
Date: 12 JUN 2020 20:49:34

11N40SISO\_Ant1\_5190



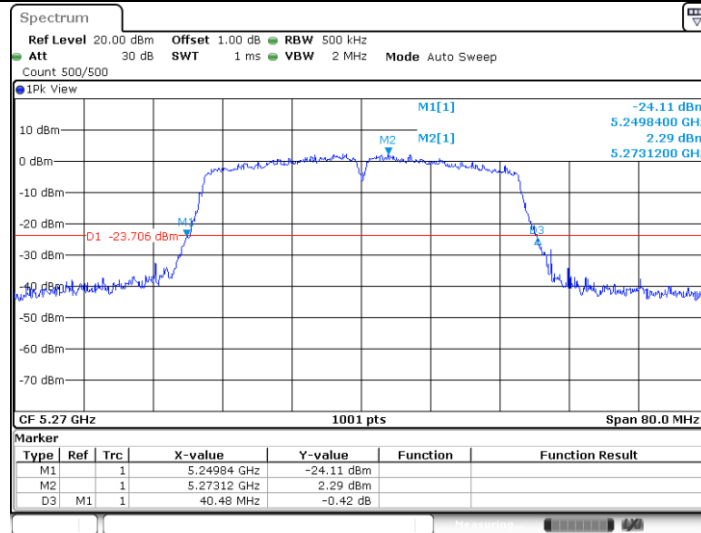
Date: 12 JUN 2020 20:59:13

11N40SISO\_Ant1\_5230



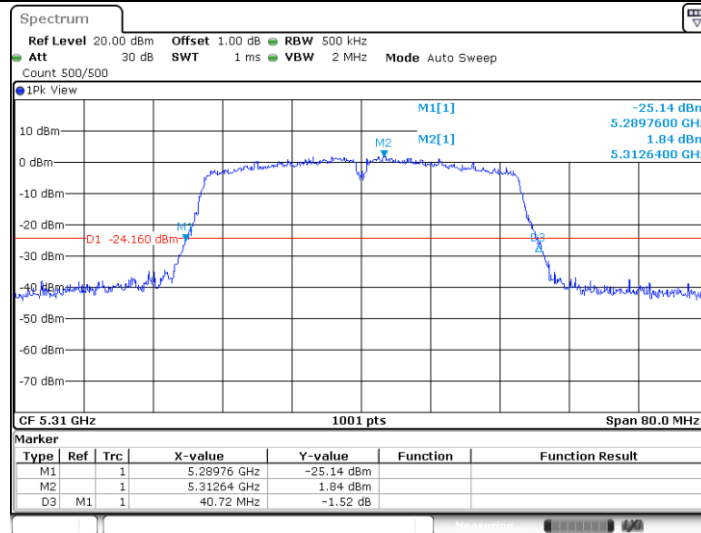
Date: 12 JUN 2020 21:01:26

11N40SISO\_Ant1\_5270



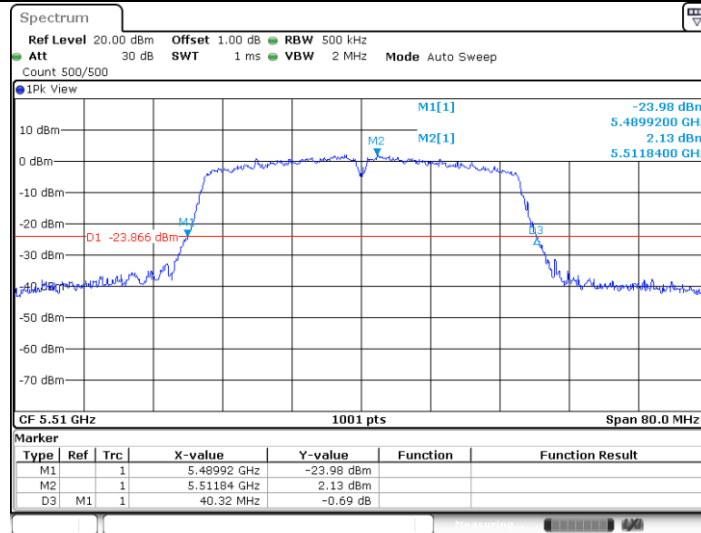
Date: 12 JUN 2020 21:03:40

11N40SISO\_Ant1\_5310



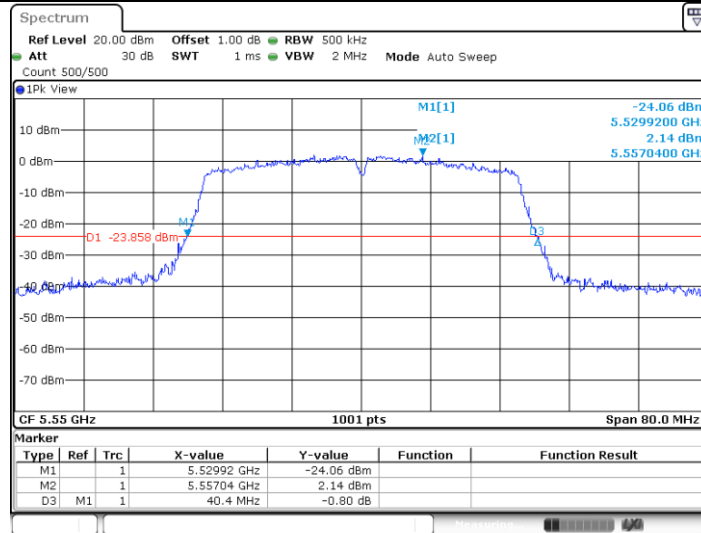
Date: 12 JUN 2020 21:05:32

11N40SISO\_Ant1\_5510



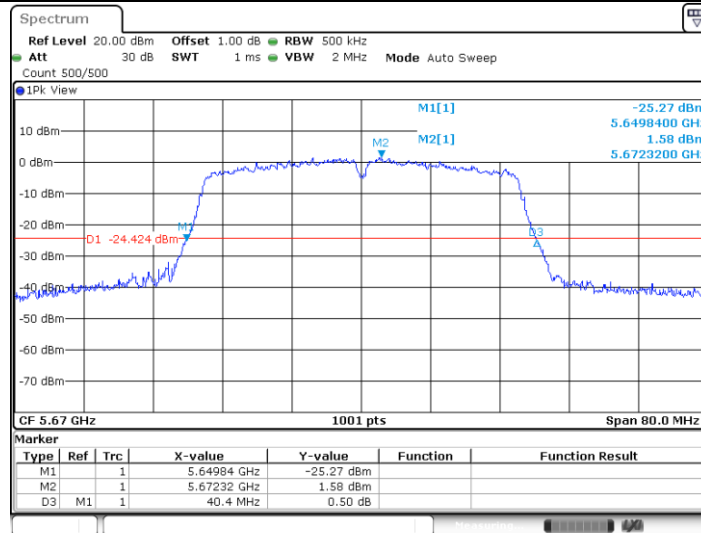
Date: 12 JUN 2020 21:07:16

11N40SISO\_Ant1\_5550



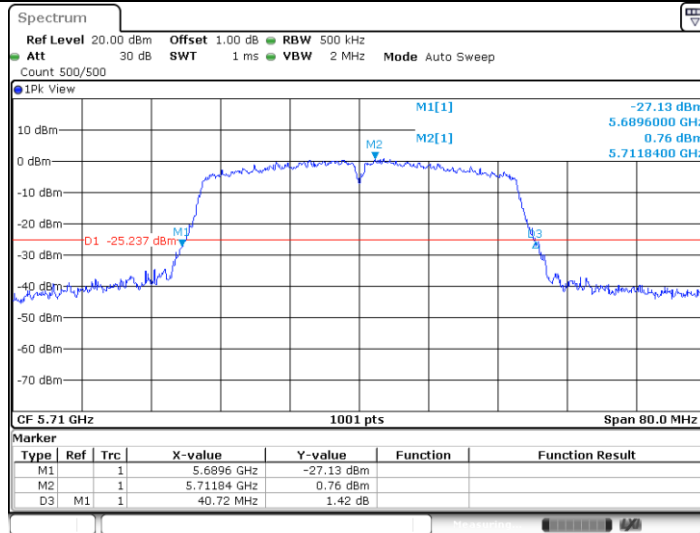
Date: 12 JUN 2020 21:09:02

11N40SISO\_Ant1\_5670



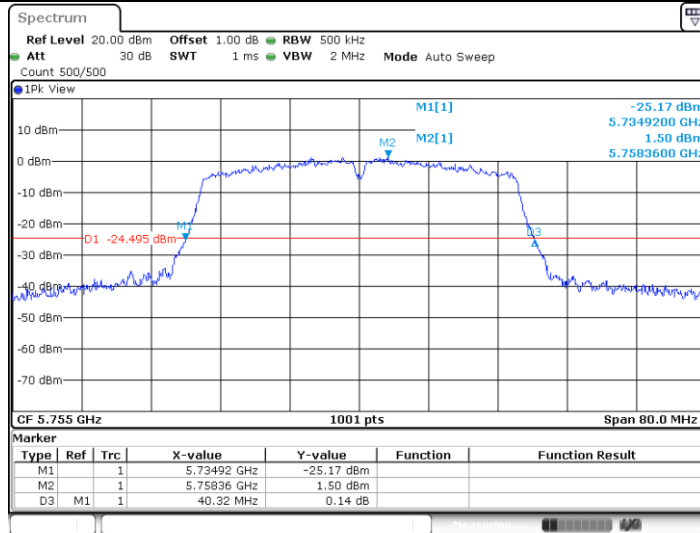
Date: 12 JUN 2020 21:10:55

11N40SISO\_Ant1\_5710



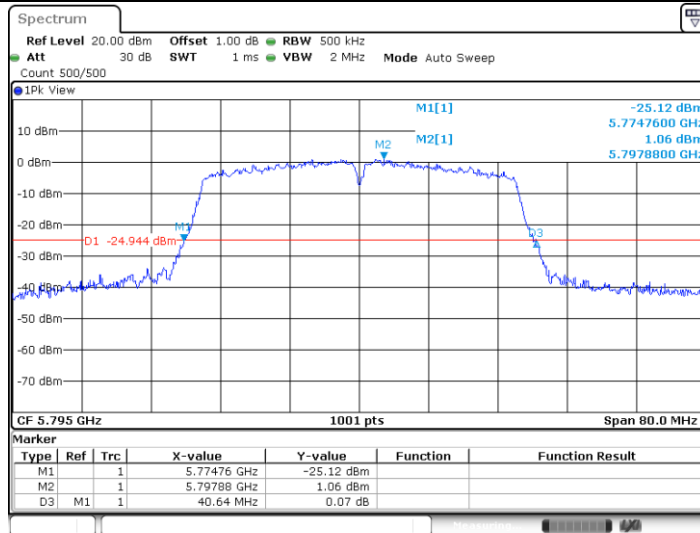
Date: 12 JUN 2020 21:14:21

11N40SISO\_Ant1\_5755



Date: 12 JUN 2020 21:16:38

11N40SISO\_Ant1\_5795

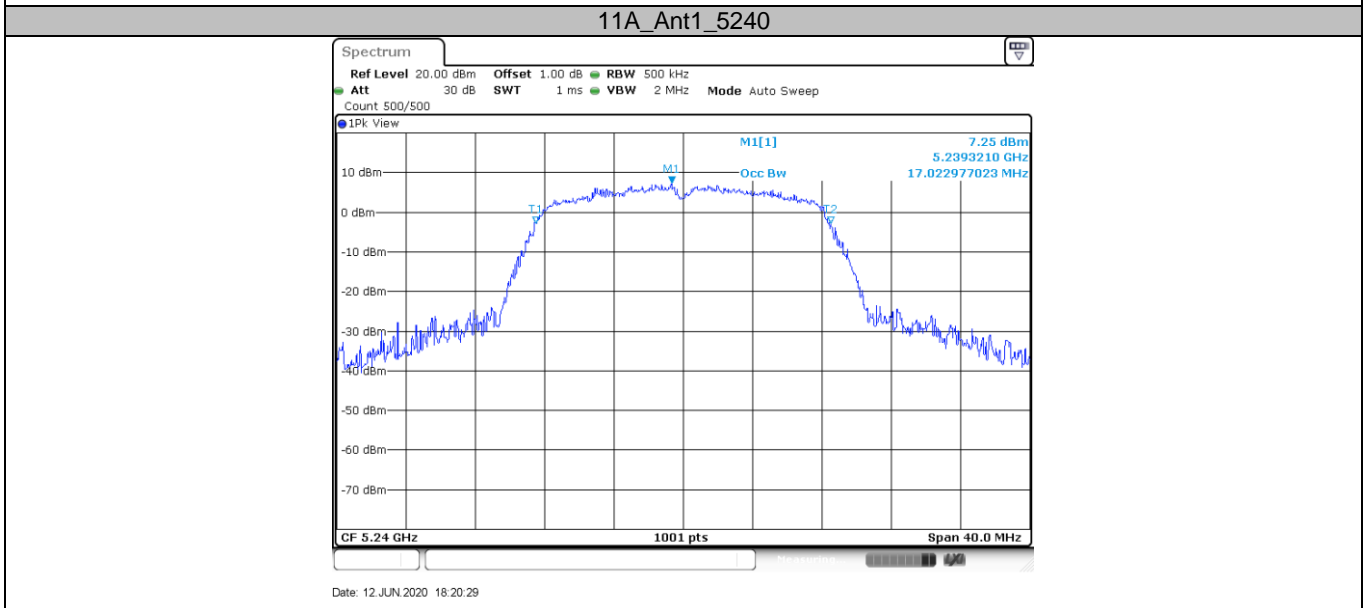
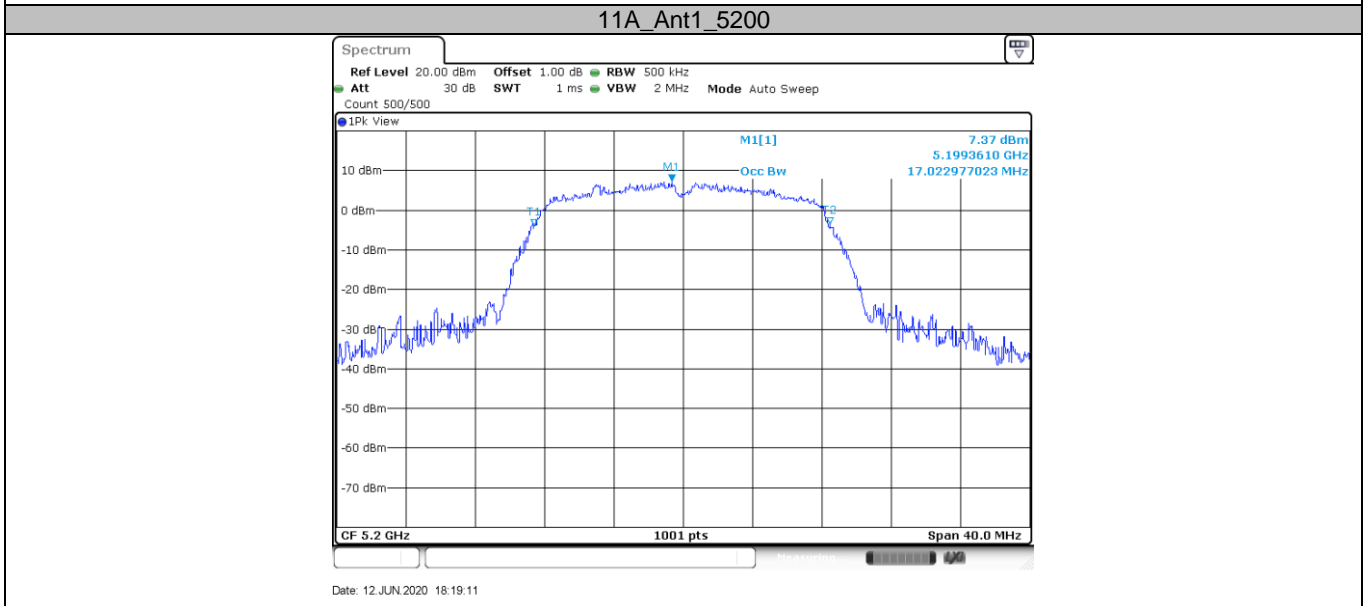
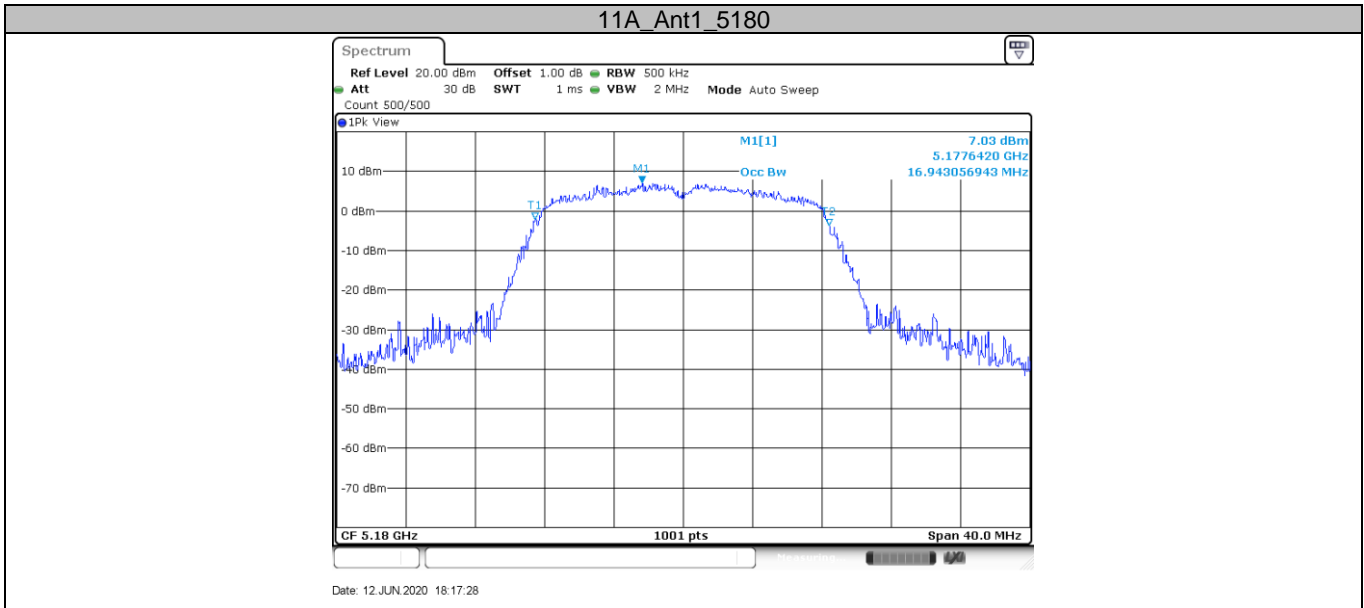


Date: 12 JUN 2020 21:19:02

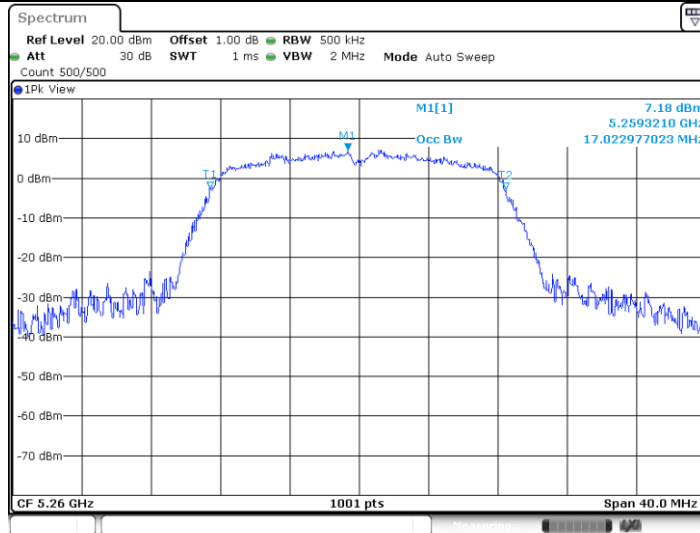


**99% Bandwidth Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.943	5171.449	5188.392	---	PASS
		5200	17.023	5191.409	5208.432	---	PASS
		5240	17.023	5231.489	5248.511	---	PASS
		5260	17.023	5251.409	5268.432	---	PASS
		5280	17.023	5271.409	5288.432	---	PASS
		5320	17.023	5311.449	5328.472	---	PASS
		5500	17.063	5491.409	5508.472	---	PASS
		5580	17.063	5571.409	5588.472	---	PASS
		5700	17.023	5691.449	5708.472	---	PASS
		5720	17.023	5711.409	5728.432	---	PASS
		5720_UNII-2C	13.591	5711.409	5725	---	PASS
		5720_UNII-3	3.432	5725	5728.432	---	PASS
		5745	16.983	5736.449	5753.432	---	PASS
		5785	17.063	5776.409	5793.472	---	PASS
5825	17.023	5816.409	5833.432	---	PASS		
11N20SISO	Ant1	5180	17.782	5171.089	5188.871	---	PASS
		5200	17.822	5191.049	5208.871	---	PASS
		5240	17.822	5231.089	5248.911	---	PASS
		5260	17.862	5251.049	5268.911	---	PASS
		5280	17.862	5271.049	5288.911	---	PASS
		5320	17.862	5311.049	5328.911	---	PASS
		5500	17.862	5491.049	5508.911	---	PASS
		5580	17.822	5571.049	5588.871	---	PASS
		5700	17.822	5691.049	5708.871	---	PASS
		5720	17.862	5711.009	5728.871	---	PASS
		5720_UNII-2C	13.991	5711.009	5725	---	PASS
		5720_UNII-3	3.871	5725	5728.871	---	PASS
		5745	17.822	5736.089	5753.911	---	PASS
		5785	17.822	5776.049	5793.871	---	PASS
5825	17.862	5816.009	5833.871	---	PASS		
11N40SISO	Ant1	5190	35.964	5172.018	5207.982	---	PASS
		5230	35.964	5212.018	5247.982	---	PASS
		5270	35.964	5252.018	5287.982	---	PASS
		5310	35.964	5292.018	5327.982	---	PASS
		5510	35.964	5492.018	5527.982	---	PASS
		5550	35.964	5532.018	5567.982	---	PASS
		5670	35.964	5652.018	5687.982	---	PASS
		5710	36.044	5692.018	5728.062	---	PASS
		5710_UNII-2C	32.982	5692.018	5725	---	PASS
		5710_UNII-3	3.062	5725	5728.062	---	PASS
		5755	35.884	5737.098	5772.982	---	PASS
		5795	36.044	5776.938	5812.982	---	PASS

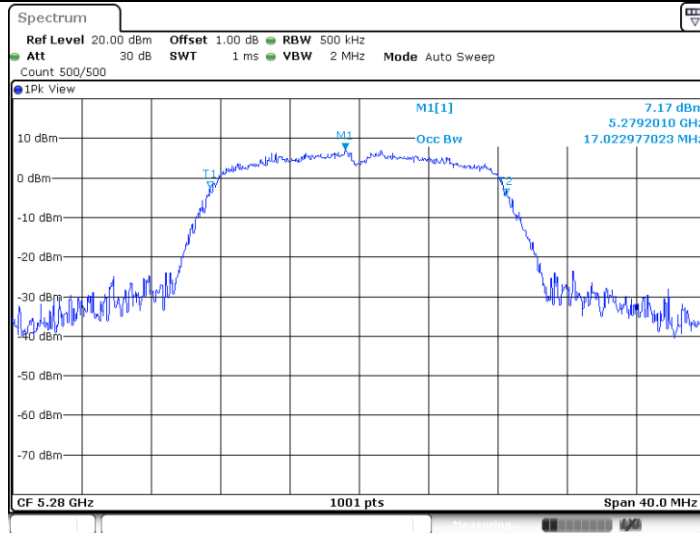


### 11A\_Ant1\_5260



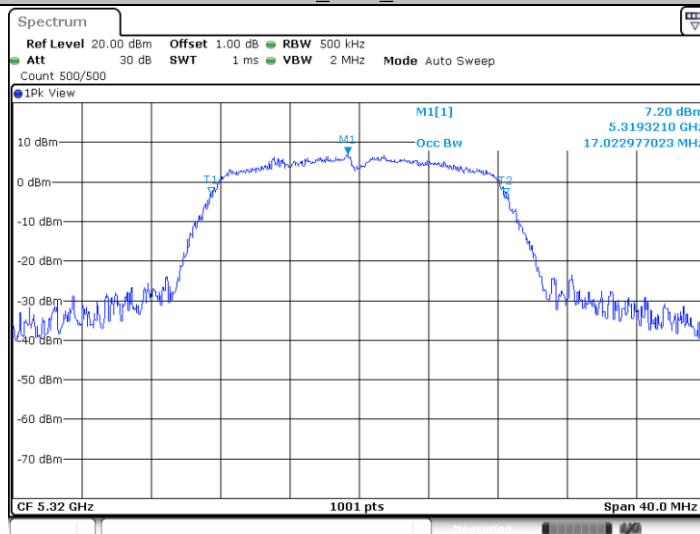
Date: 12 JUN 2020 18:22:06

### 11A\_Ant1\_5280



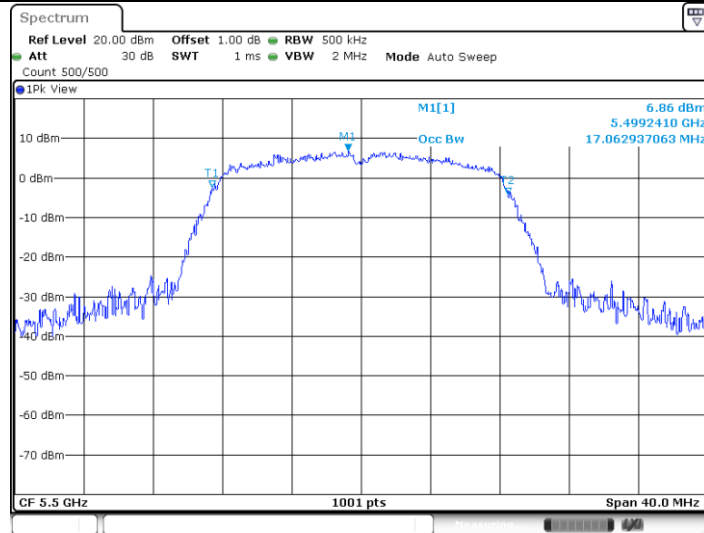
Date: 12 JUN 2020 18:23:33

### 11A\_Ant1\_5320



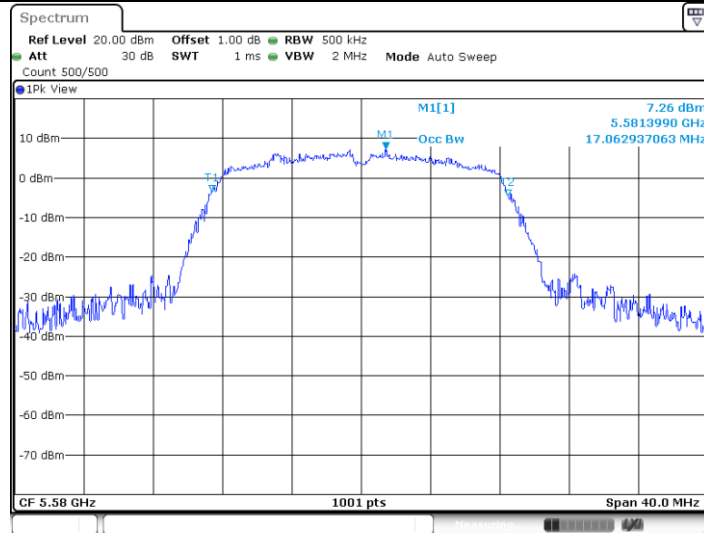
Date: 12 JUN 2020 18:25:01

### 11A\_Ant1\_5500



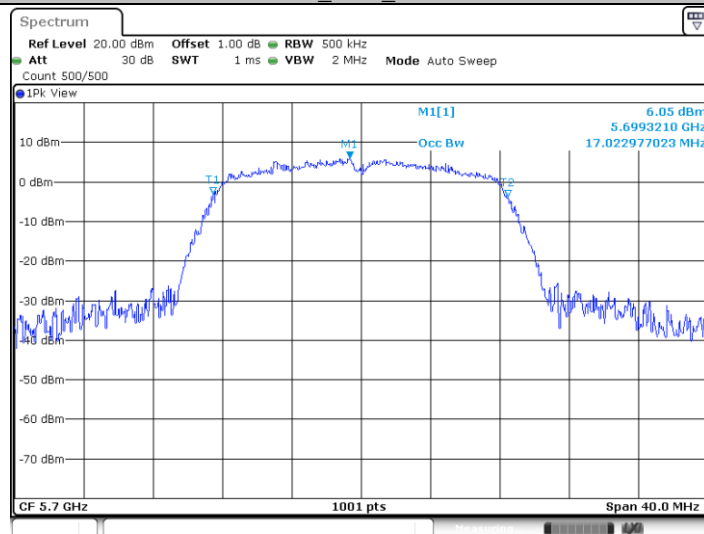
Date: 12 JUN 2020 18:26:56

11A\_Ant1\_5580



Date: 12 JUN 2020 18:29:08

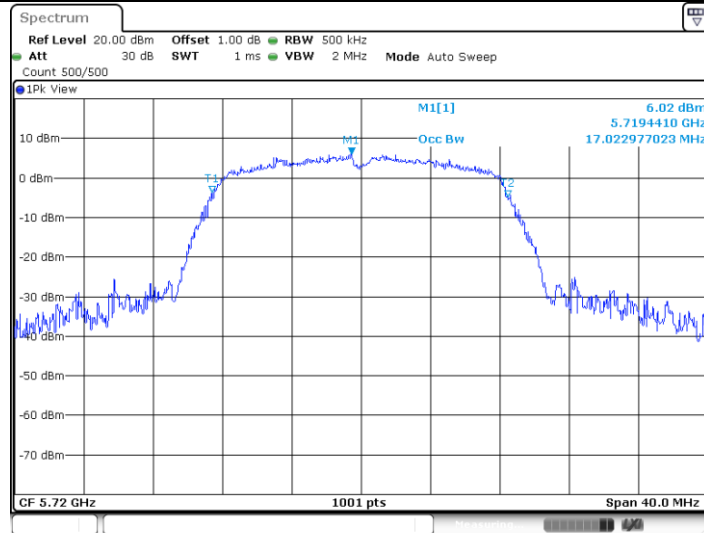
11A\_Ant1\_5720



Date: 12 JUN 2020 18:30:38

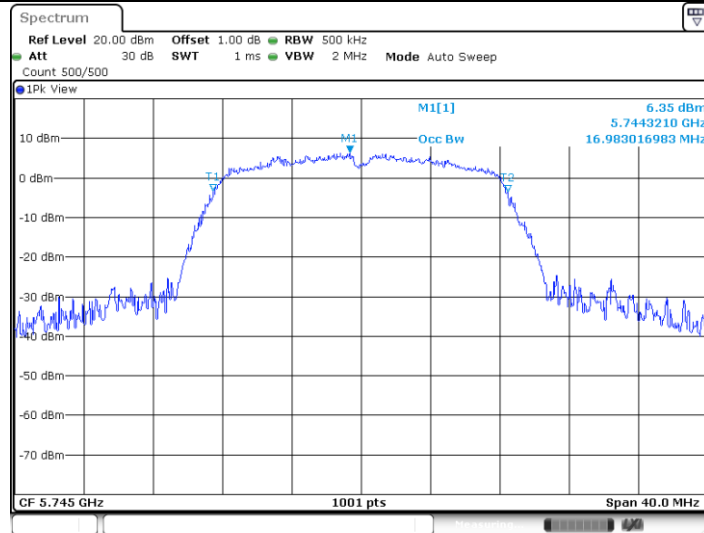
11A\_Ant1\_5720





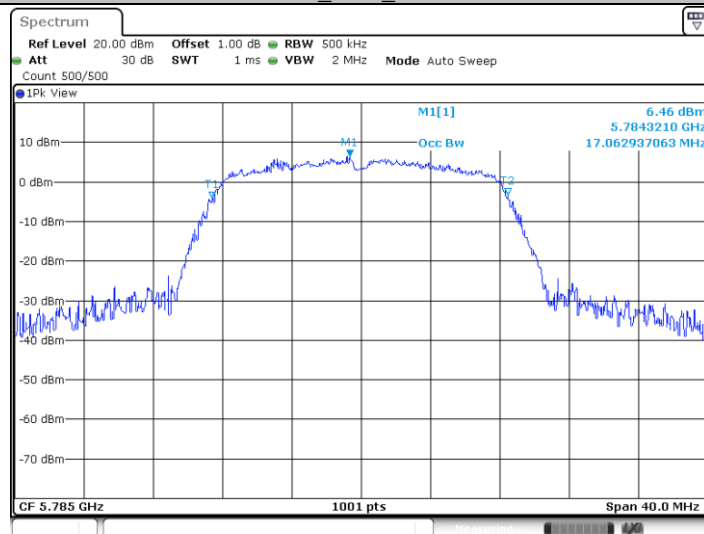
Date: 12 JUN 2020 18:33:32

11A\_Ant1\_5745



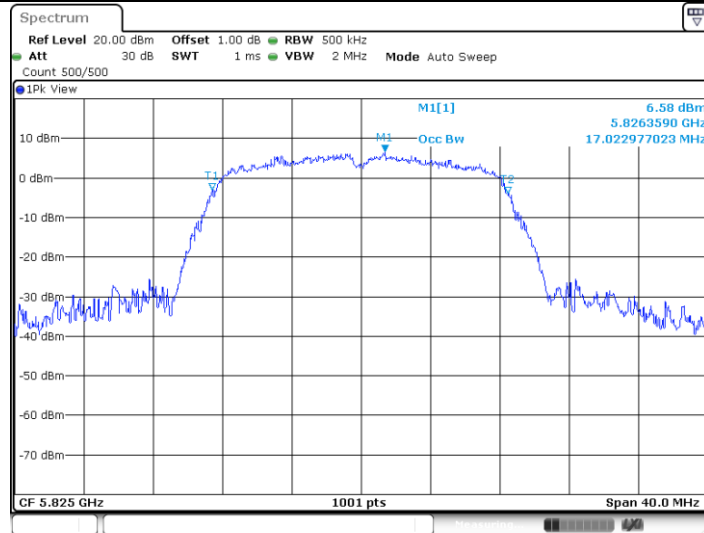
Date: 12 JUN 2020 18:36:10

11A\_Ant1\_5785



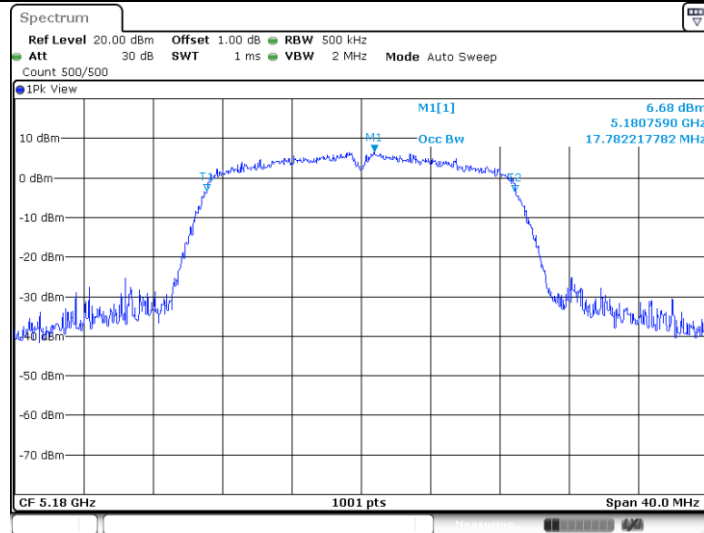
Date: 12 JUN 2020 18:37:59

11A\_Ant1\_5825



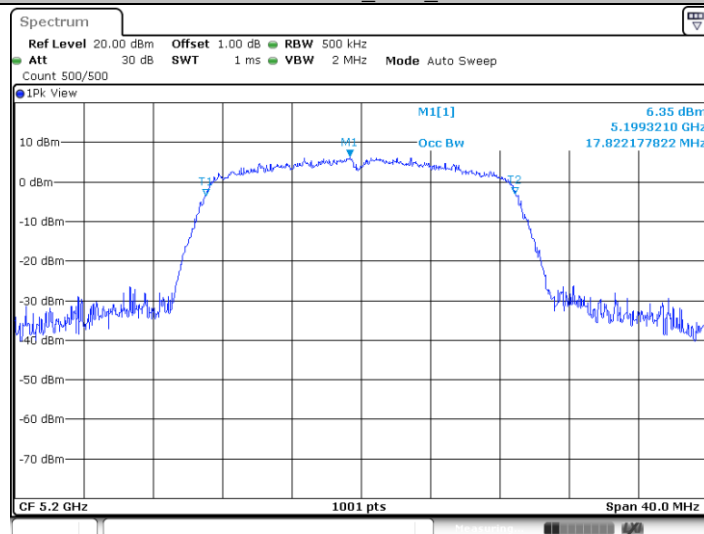
Date: 12 JUN 2020 18:41:21

11N20SISO\_Ant1\_5180



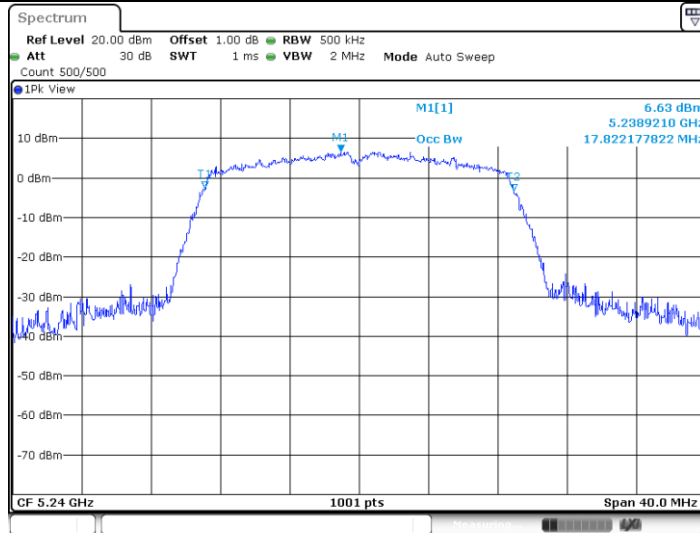
Date: 12 JUN 2020 19:20:28

11N20SISO\_Ant1\_5200



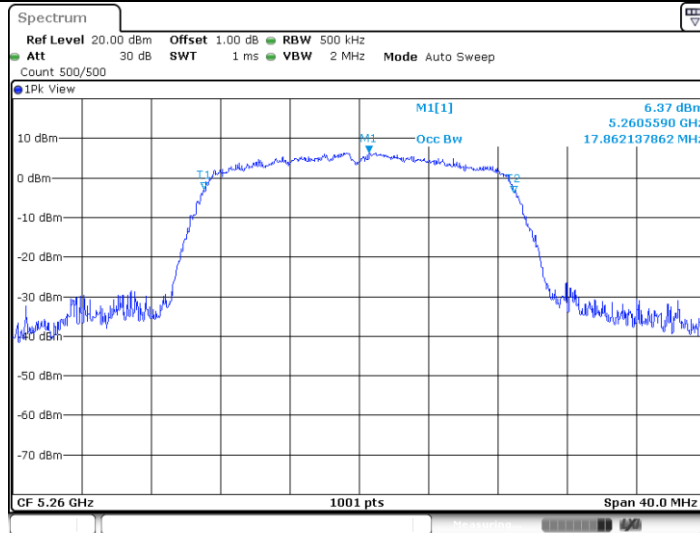
Date: 12 JUN 2020 20:25:58

11N20SISO\_Ant1\_5240



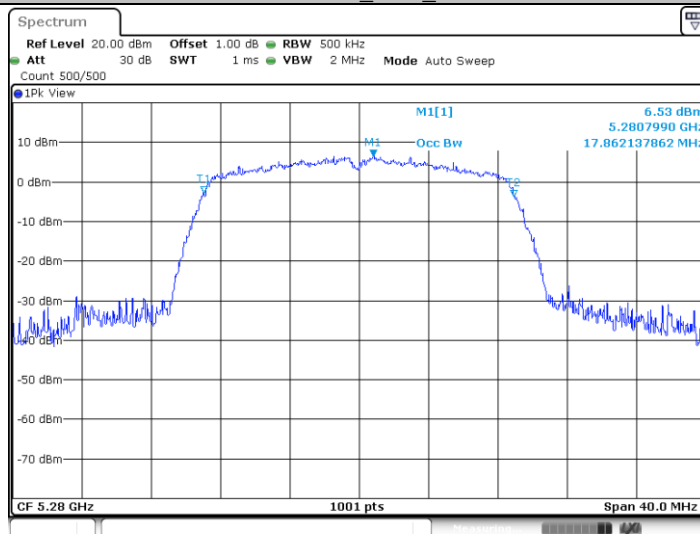
Date: 12 JUN 2020 20:28:46

11N20SISO\_Ant1\_5260



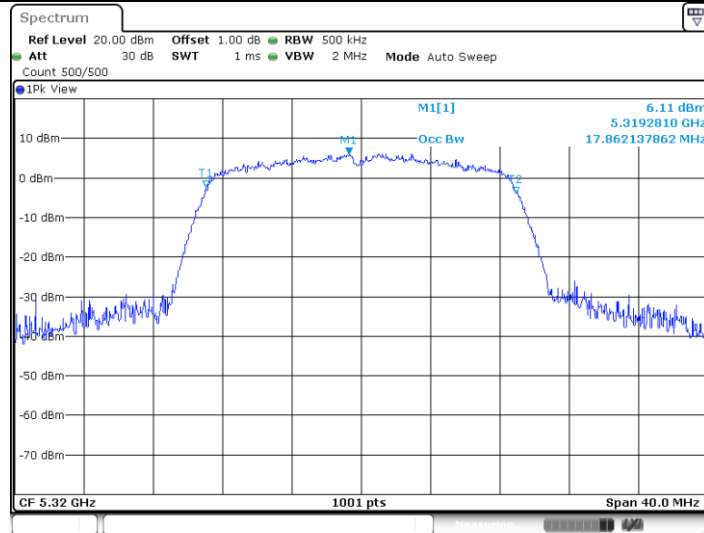
Date: 12 JUN 2020 20:30:19

11N20SISO\_Ant1\_5280



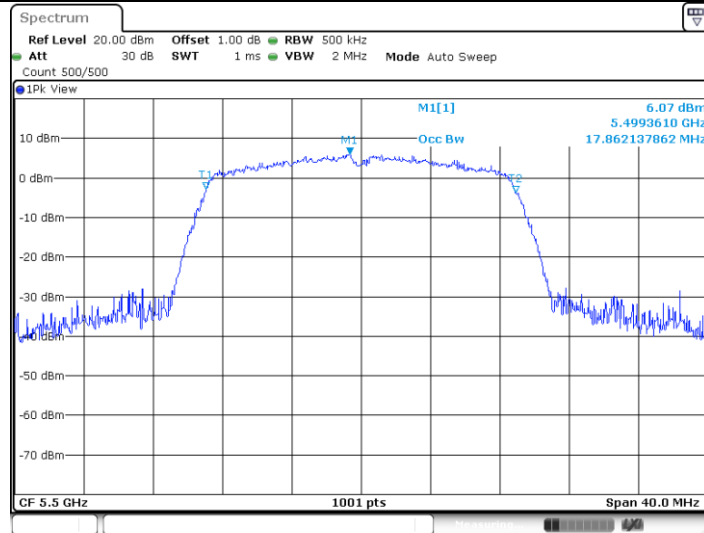
Date: 12 JUN 2020 20:31:59

11N20SISO\_Ant1\_5320



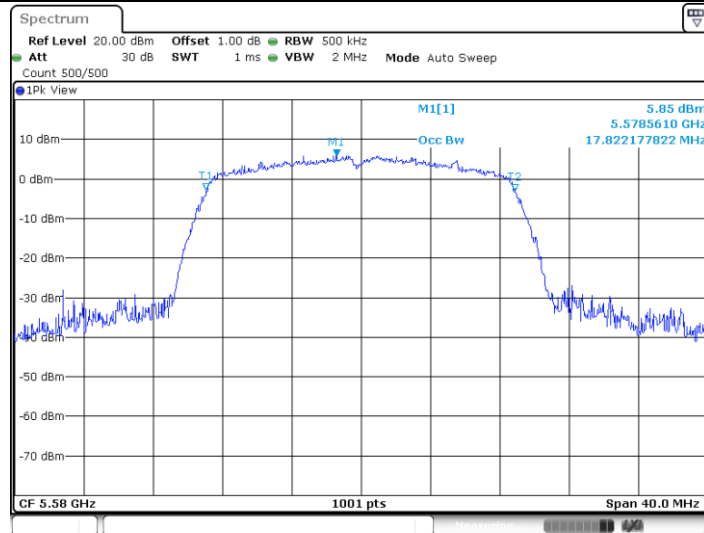
Date: 12 JUN 2020 20:33:59

11N20SISO\_Ant1\_5500



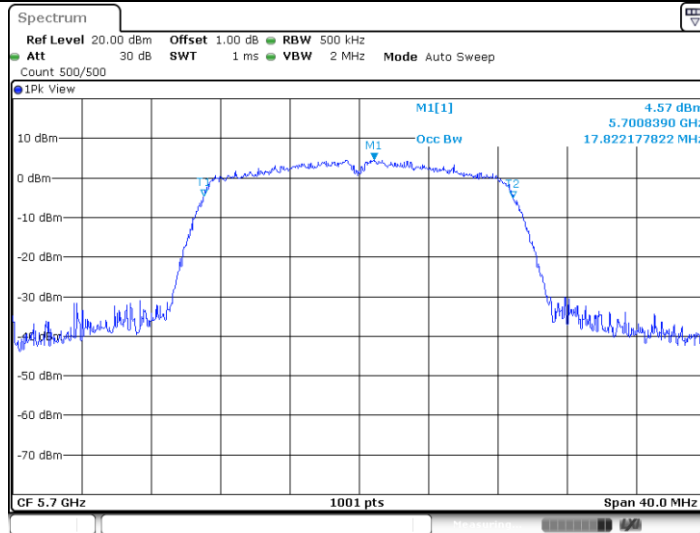
Date: 12 JUN 2020 20:35:48

11N20SISO\_Ant1\_5580



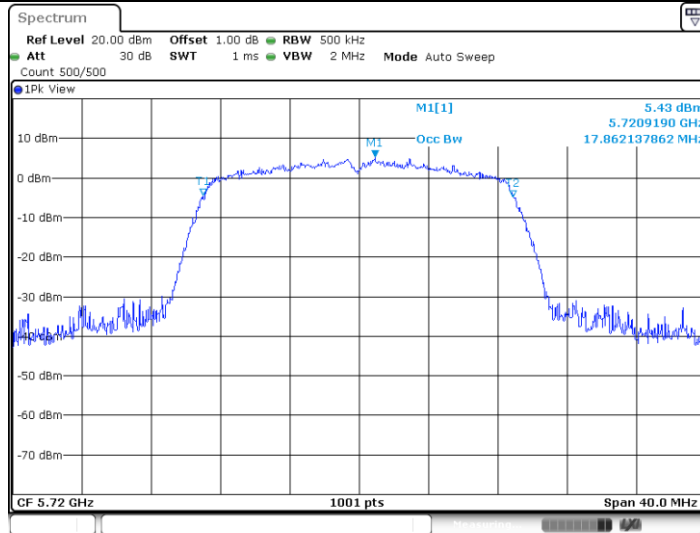
Date: 12 JUN 2020 20:38:16

11N20SISO\_Ant1\_5700



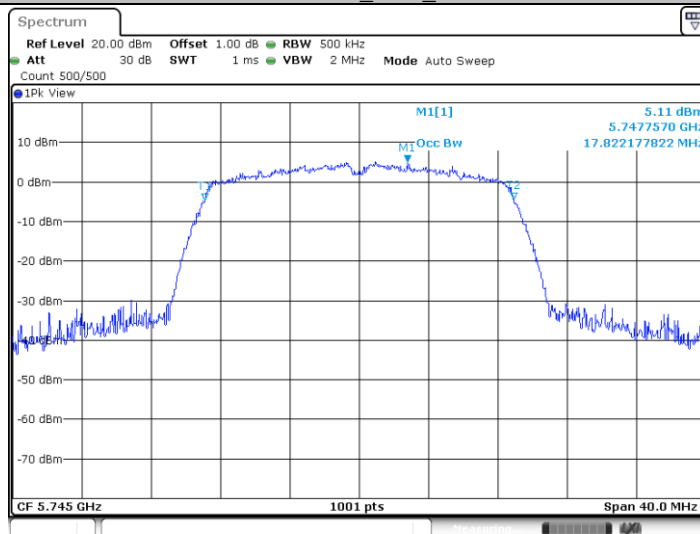
Date: 12 JUN 2020 20:41:43

11N20SISO\_Ant1\_5720



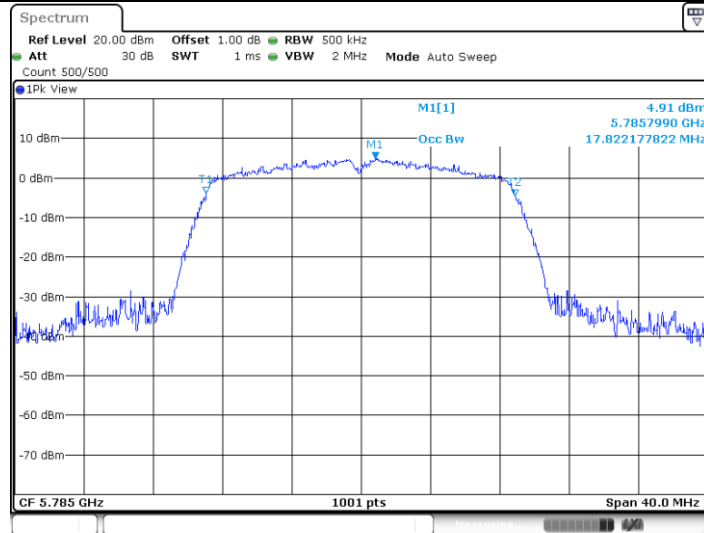
Date: 12 JUN 2020 20:43:49

11N20SISO\_Ant1\_5745



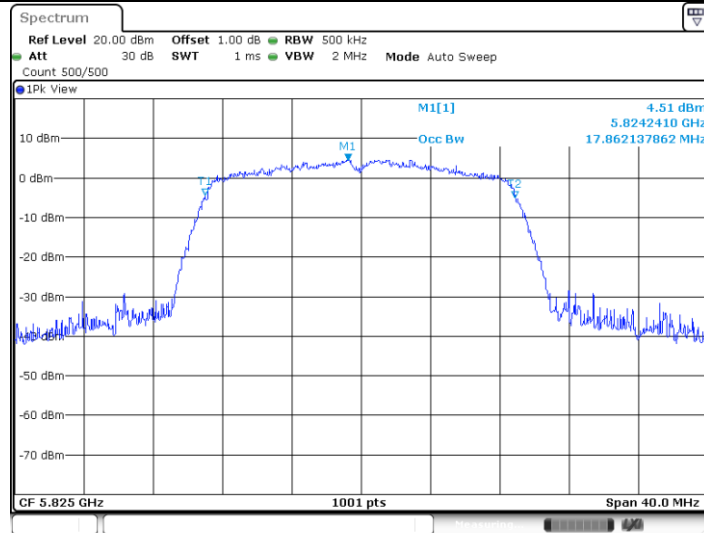
Date: 12 JUN 2020 20:46:07

11N20SISO\_Ant1\_5785



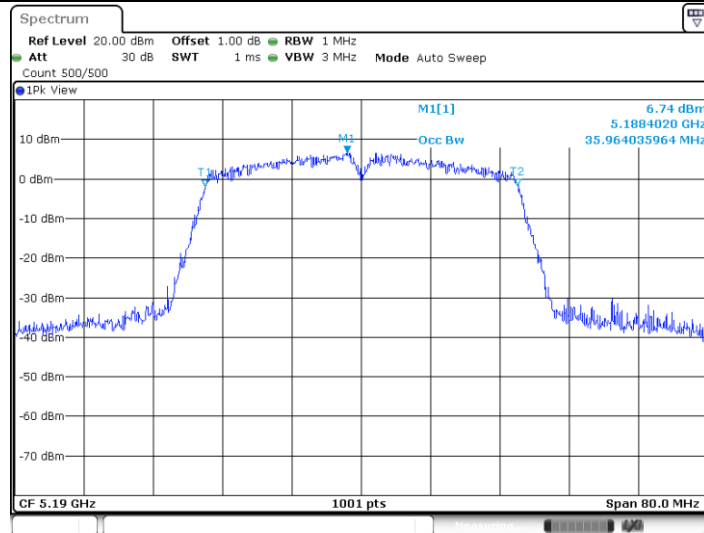
Date: 12 JUN 2020 20:48:10

11N20SISO\_Ant1\_5825



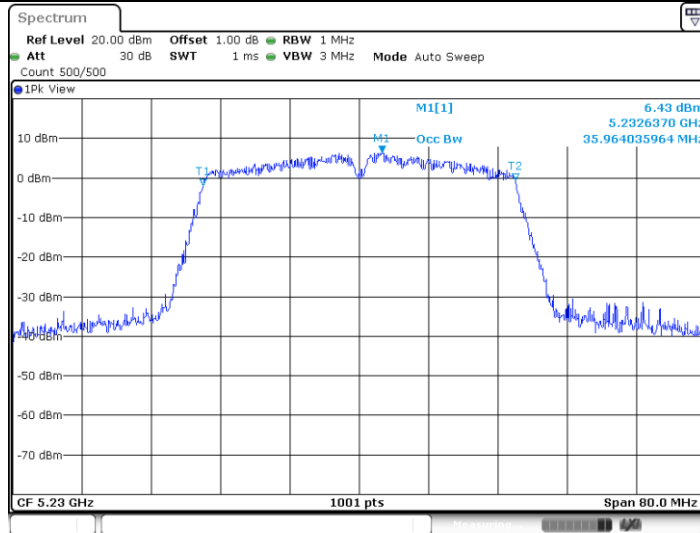
Date: 12 JUN 2020 20:49:45

11N40SISO\_Ant1\_5190



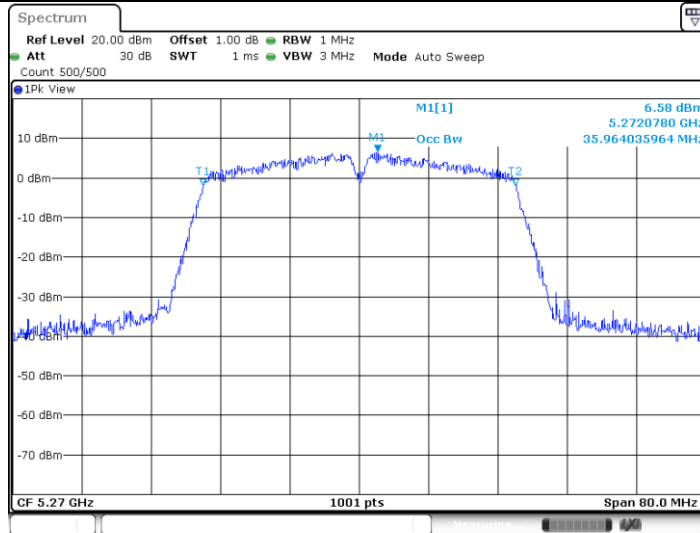
Date: 12 JUN 2020 20:59:24

11N40SISO\_Ant1\_5230



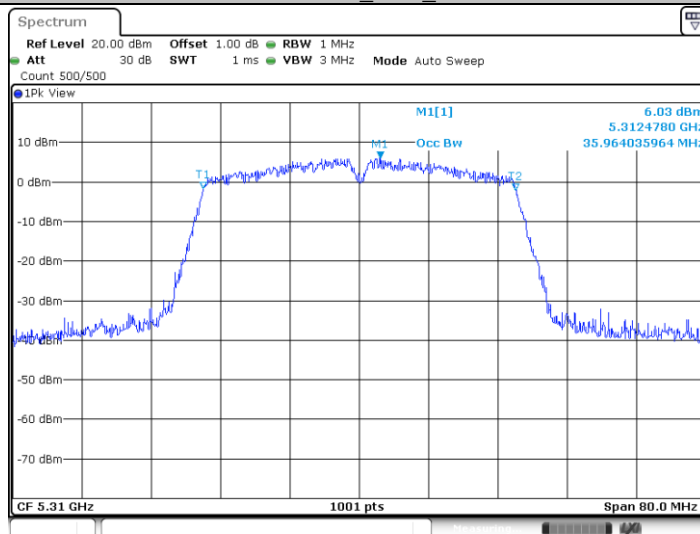
Date: 12 JUN 2020 21:01:37

11N40SISO\_Ant1\_5270



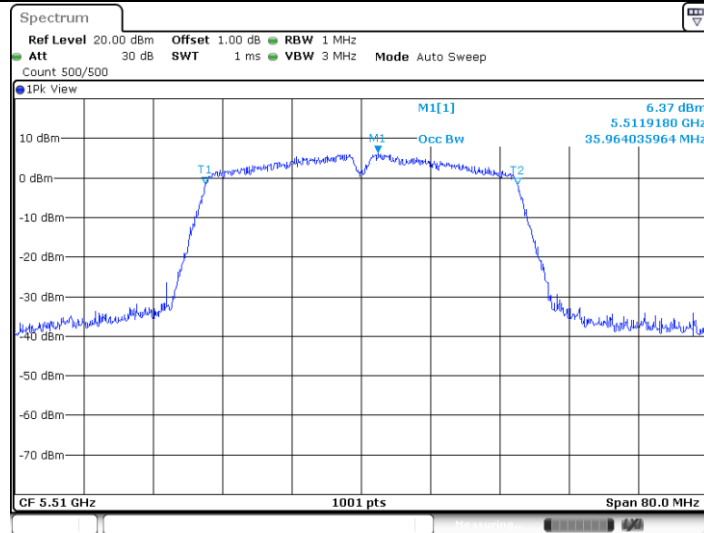
Date: 12 JUN 2020 21:03:51

11N40SISO\_Ant1\_5310



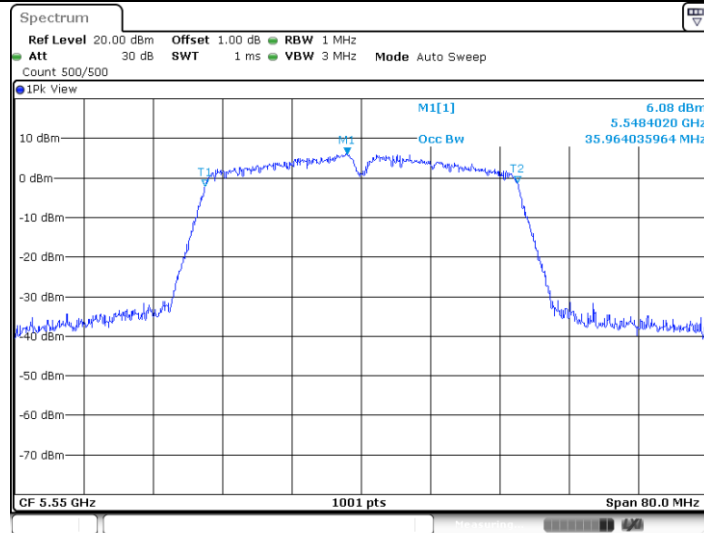
Date: 12 JUN 2020 21:05:43

11N40SISO\_Ant1\_5510



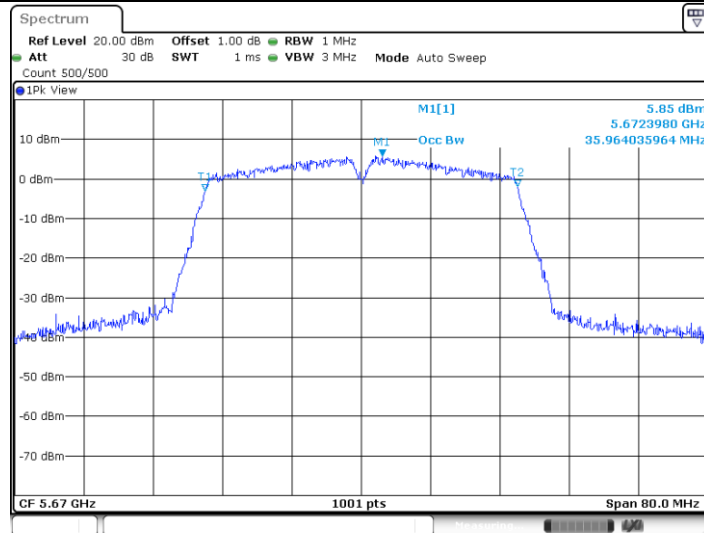
Date: 12 JUN 2020 21:07:27

11N40SISO\_Ant1\_5550



Date: 12 JUN 2020 21:09:13

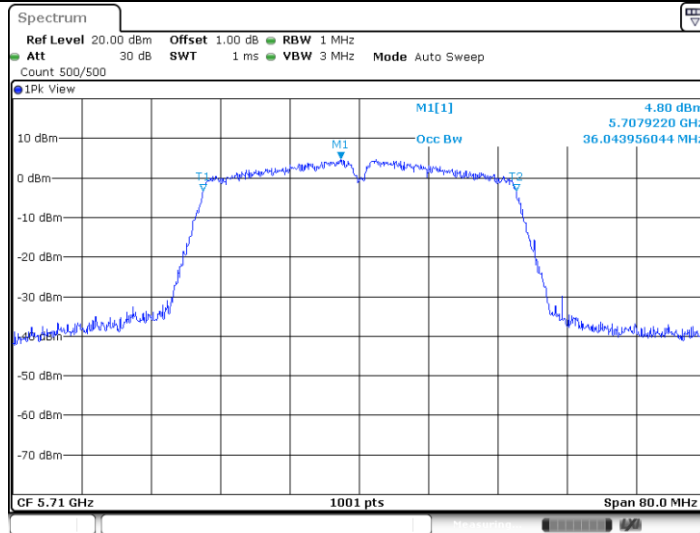
11N40SISO\_Ant1\_5670



Date: 12 JUN 2020 21:11:06

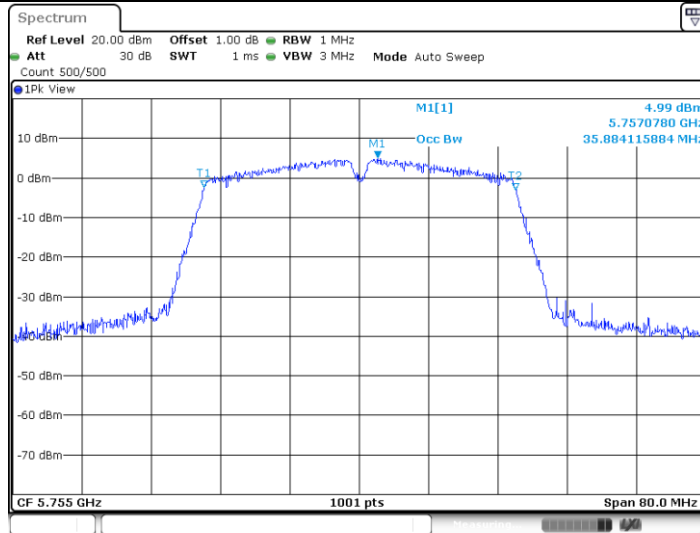
11N40SISO\_Ant1\_5710





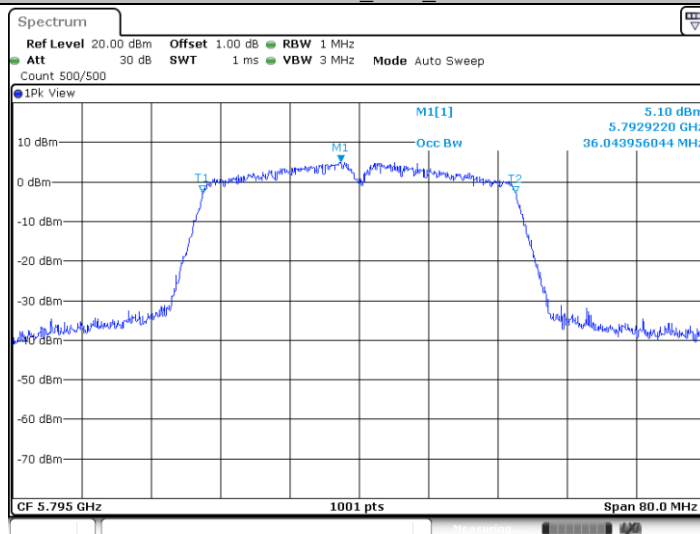
Date: 12 JUN 2020 21:14:33

11N40SISO\_Ant1\_5755



Date: 12 JUN 2020 21:16:50

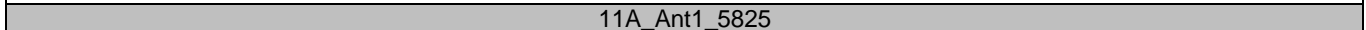
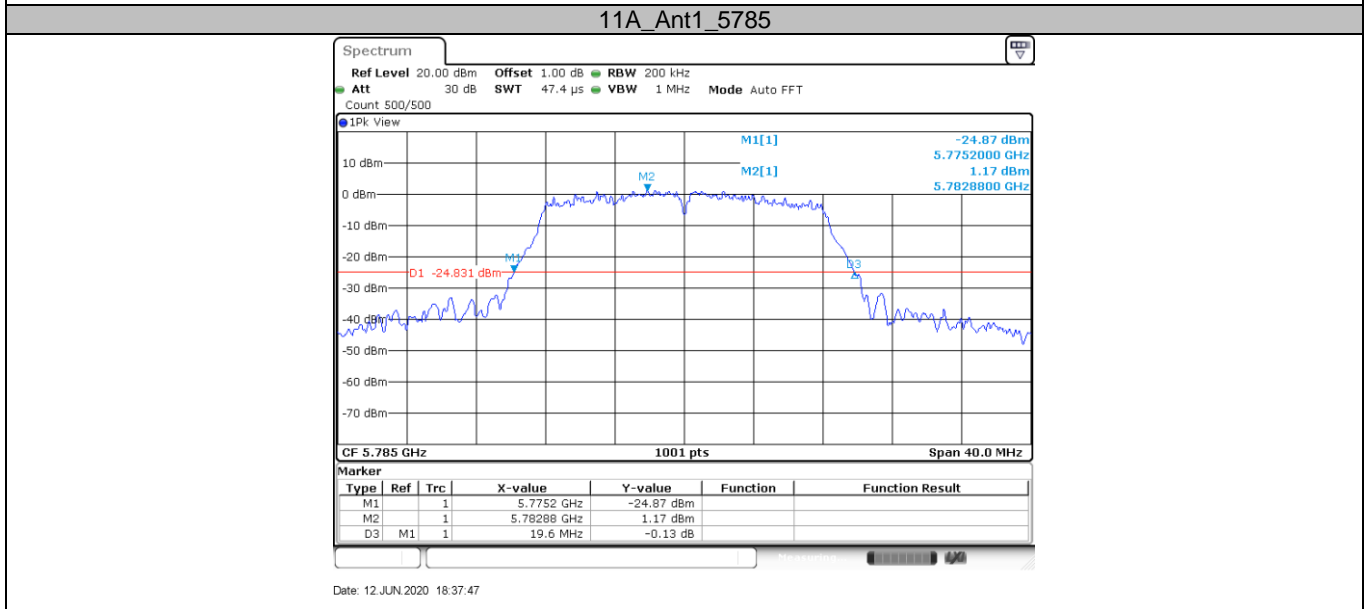
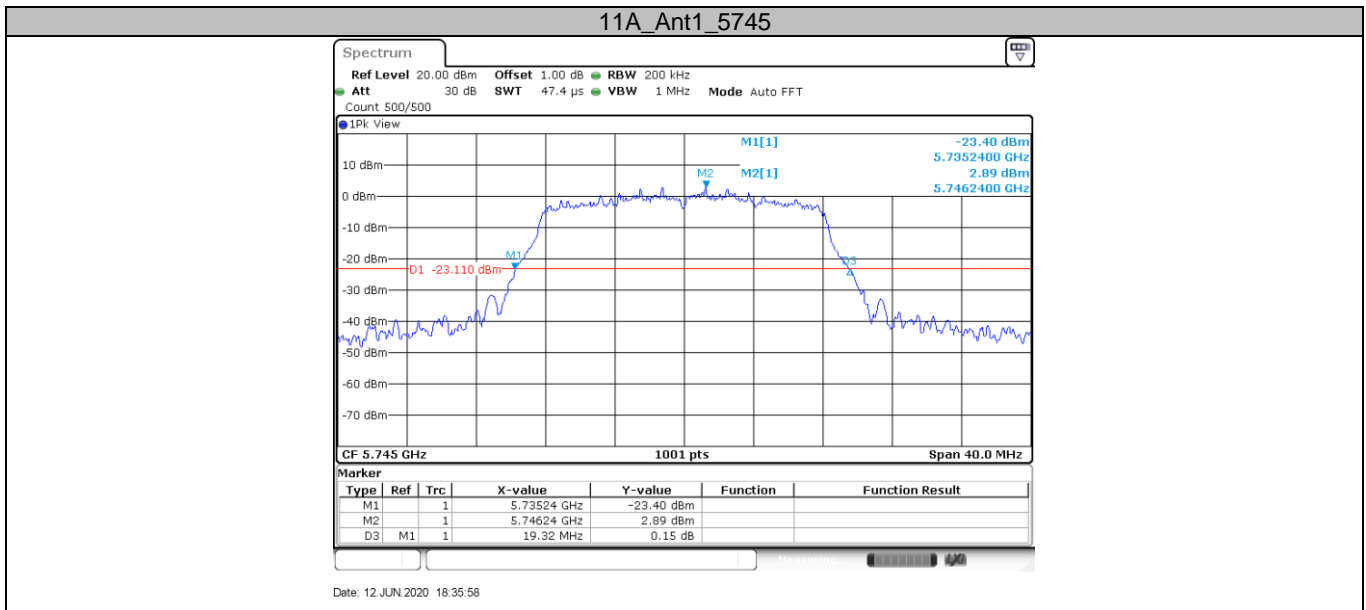
11N40SISO\_Ant1\_5795

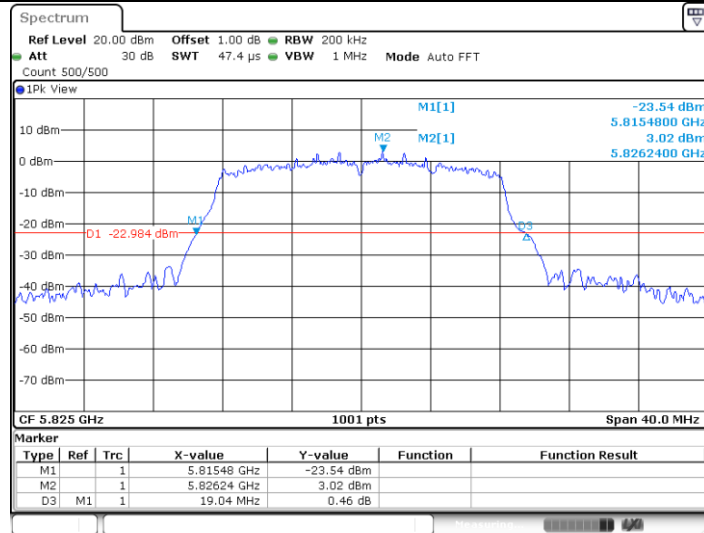


Date: 12 JUN 2020 21:19:13

**6dB Bandwidth Test Result**

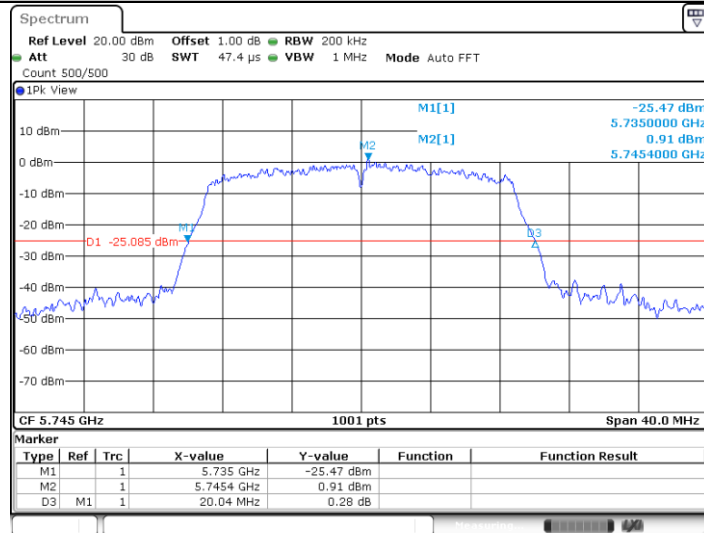
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	19.320	5735.240	5754.560	0.5	PASS
		5785	19.600	5775.200	5794.800	0.5	PASS
		5825	19.040	5815.480	5834.520	0.5	PASS
11N20SISO	Ant1	5745	20.040	5735.000	5755.040	0.5	PASS
		5785	19.880	5775.120	5795.000	0.5	PASS
		5825	19.960	5815.000	5834.960	0.5	PASS
11N40SISO	Ant1	5755	40.320	5734.920	5775.240	0.5	PASS
		5795	40.640	5774.760	5815.400	0.5	PASS





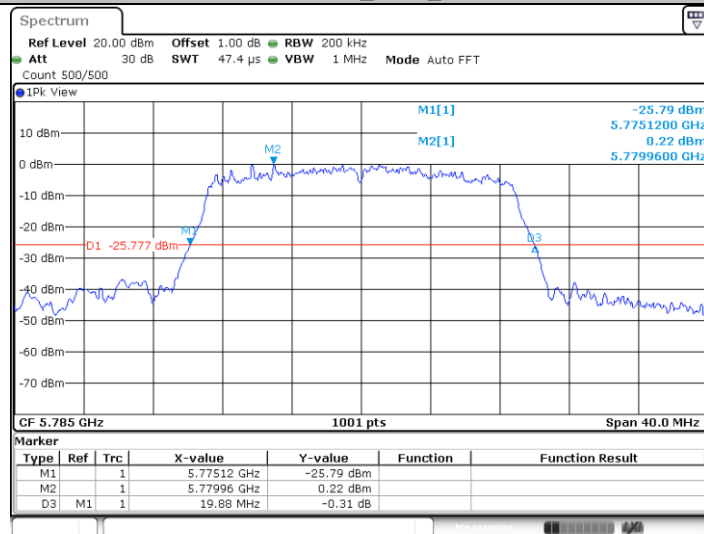
Date: 12 JUN 2020 18:41:10

11N20SISO\_Ant1\_5745



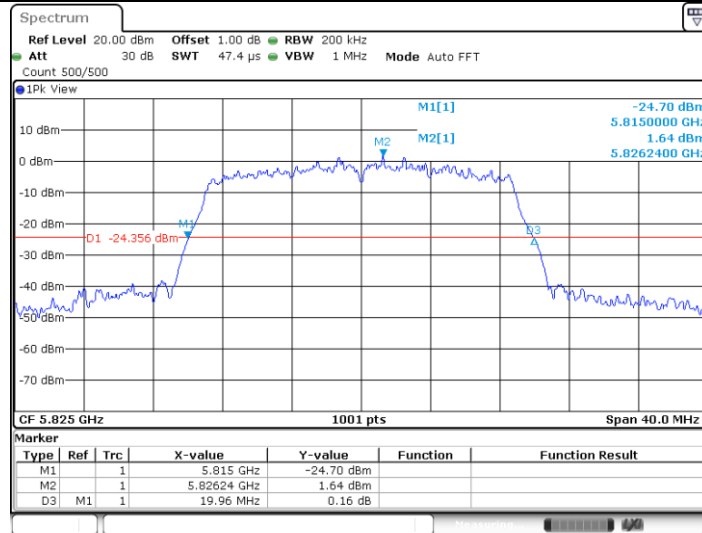
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11N20SISO\_Ant1\_5785



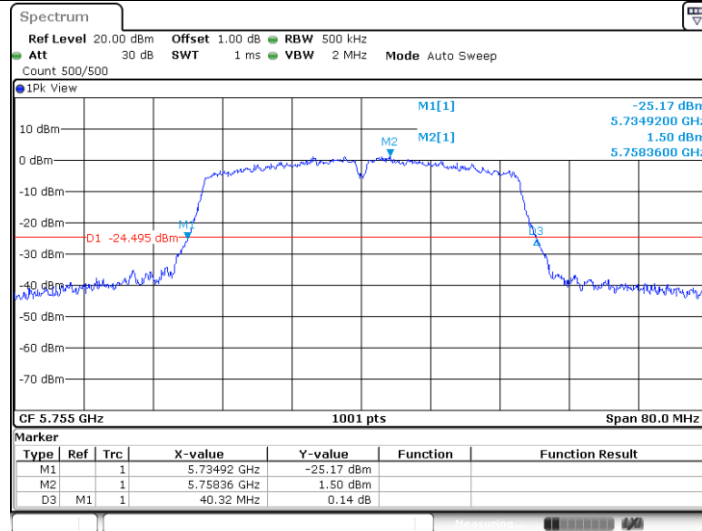
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11N20SISO\_Ant1\_5825



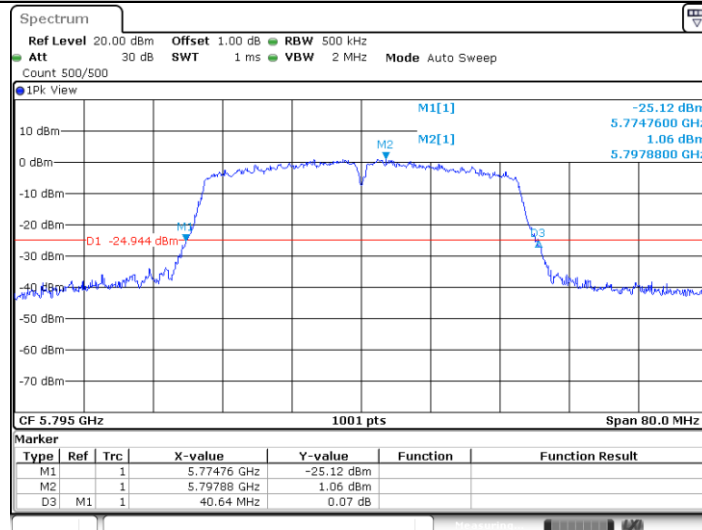
Date: 12 JUN 2020 20:49:34

11N40SISO\_Ant1\_5755



Date: 12 JUN 2020 21:16:38

11N40SISO\_Ant1\_5795



Date: 12 JUN 2020 21:19:02