

4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p>Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		



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4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	



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4.12.4 Test plots

4.12.4.1 DFS Detection Thresholds

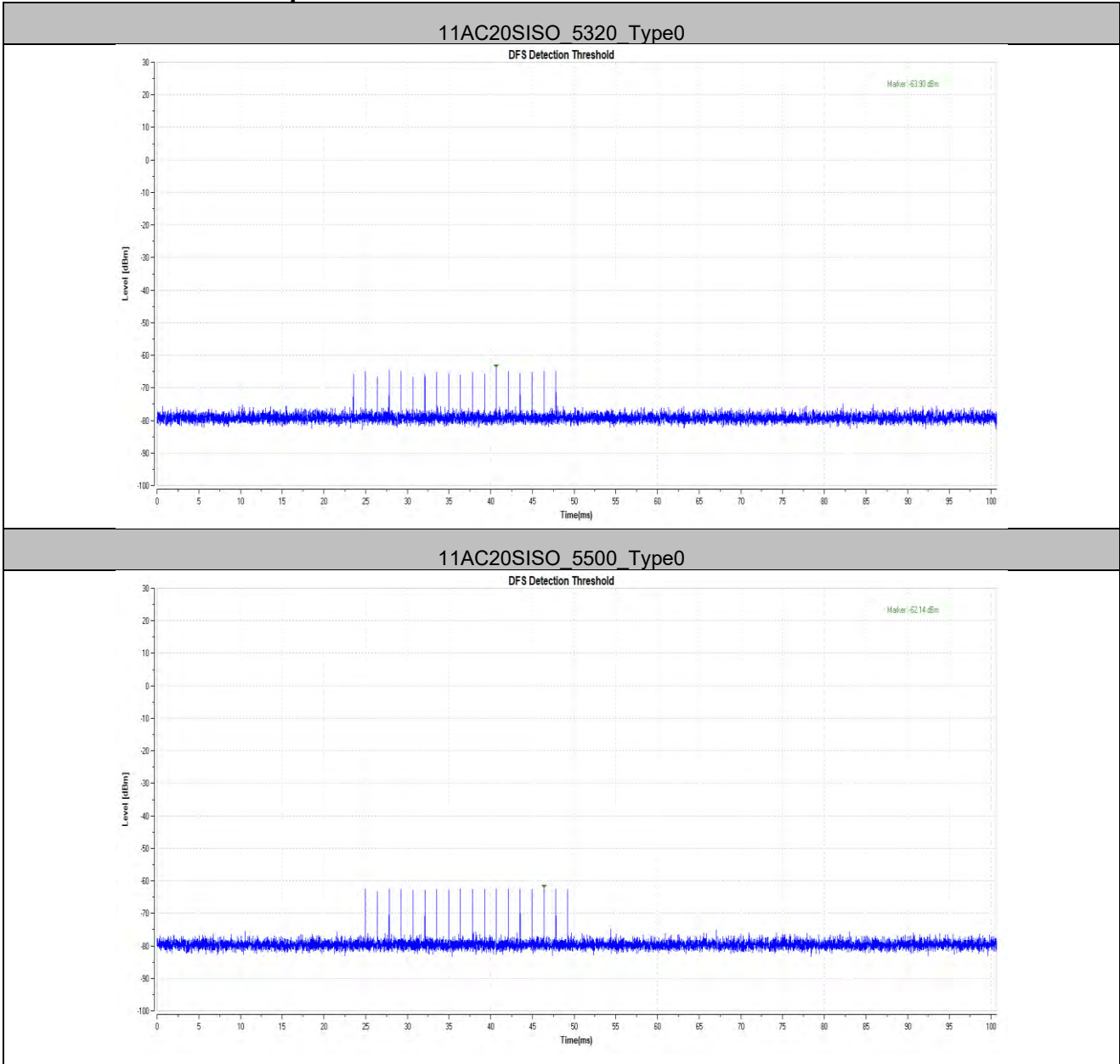
4.12.4.1.1 Test Result

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-63.90	-62.00	PASS
	5500	Type0	-62.14	-62.00	PASS
11AC80SISO	5290	Type0	-62.28	-62.00	PASS
	5530	Type0	-63.36	-62.00	PASS



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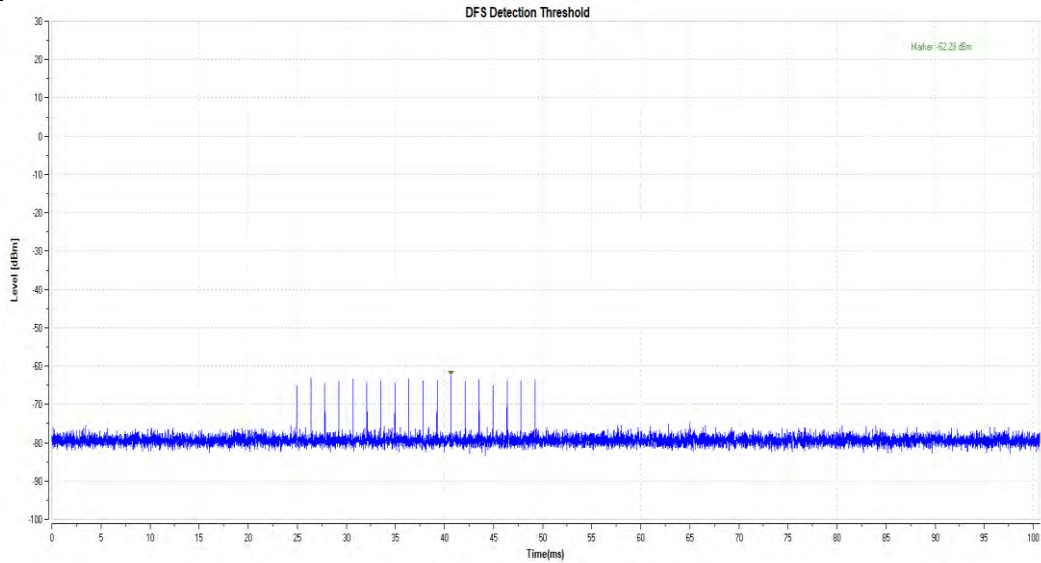
4.12.4.1.2 Test Graphs



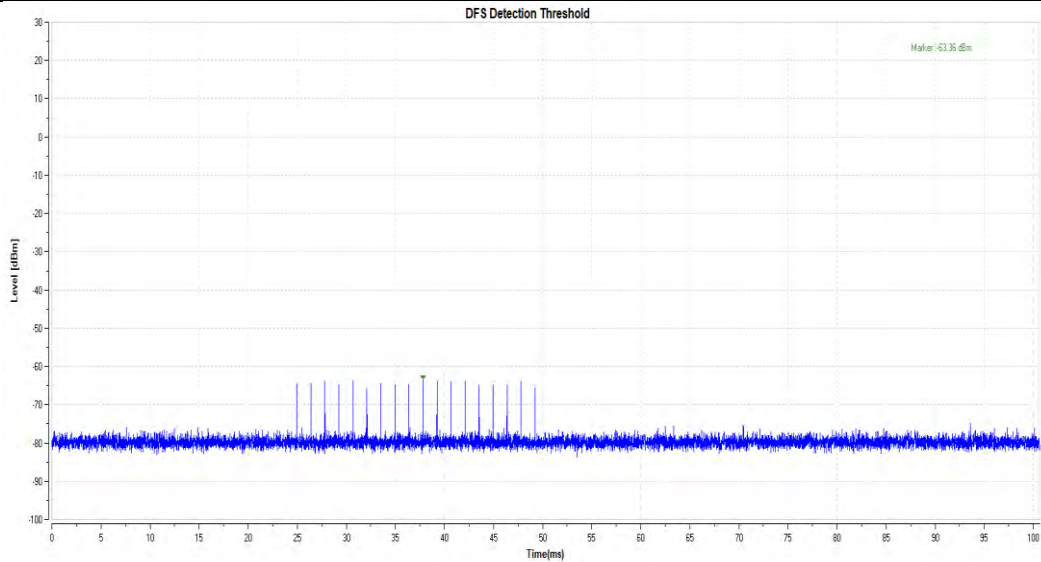
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11AC80SISO_5290_Type0



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4.12.4.2 Channel Move Time and Channel Closing Transmission Time

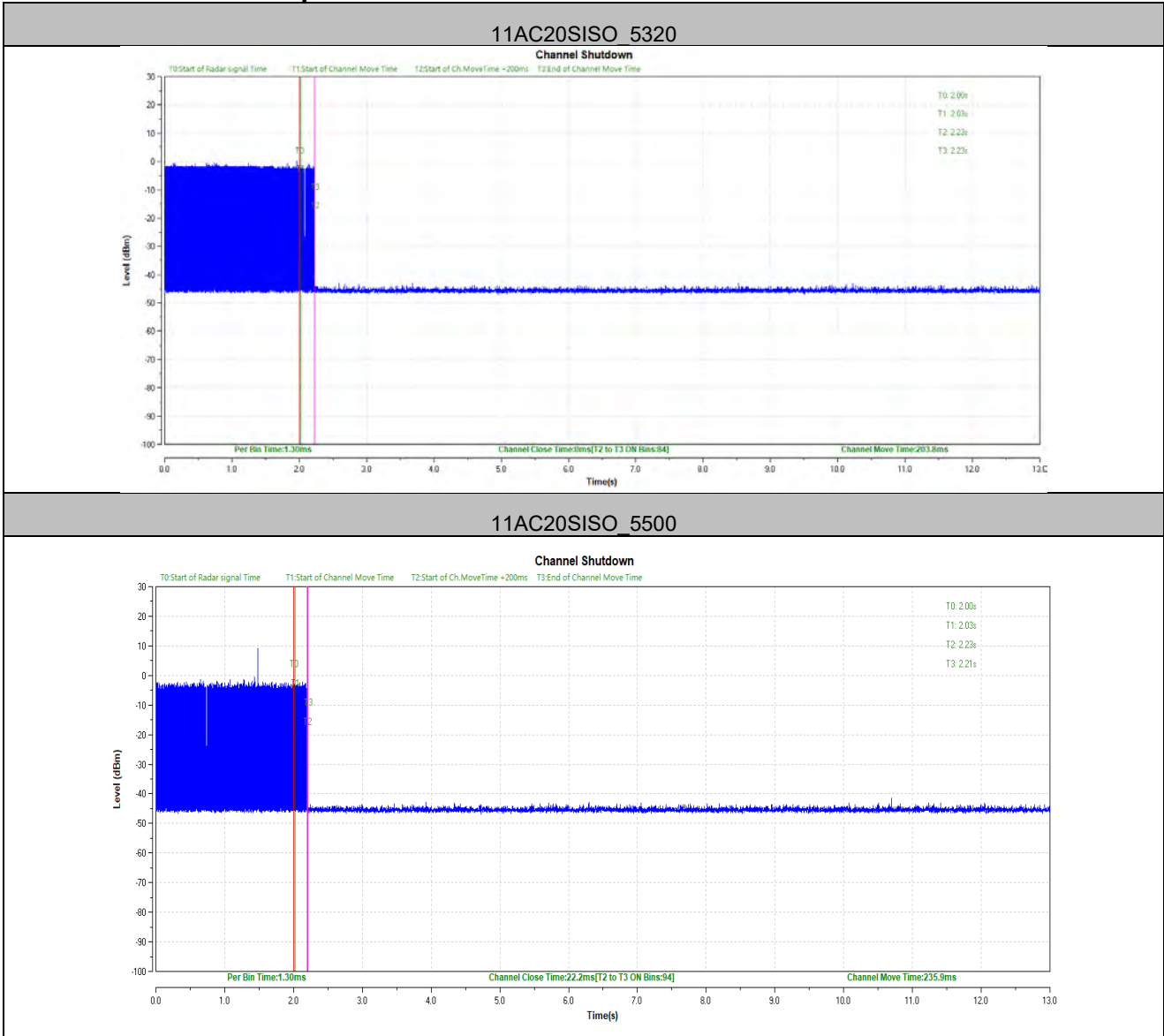
4.12.4.2.1 Test Result

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	0	60	203.8	10000	PASS
	5500	22.2	60	235.9	10000	PASS
11AC80SISO	5290	0	60	203.6	10000	PASS
	5530	42.3	60	245.7	10000	PASS



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4.12.4.2.2 Test Graphs

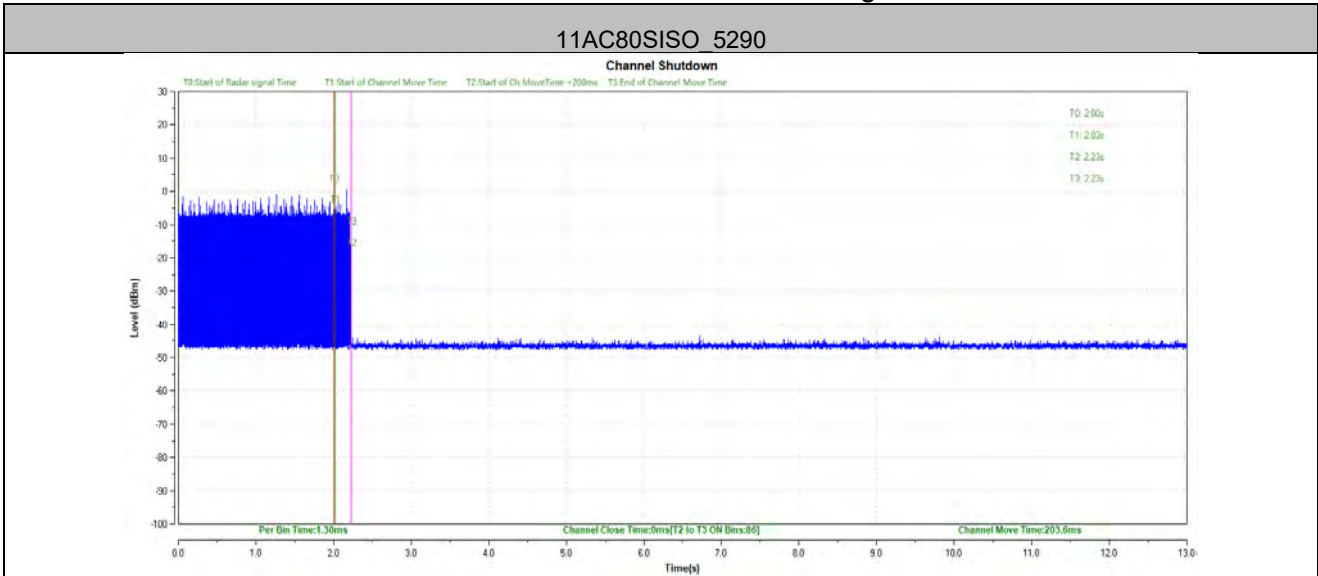


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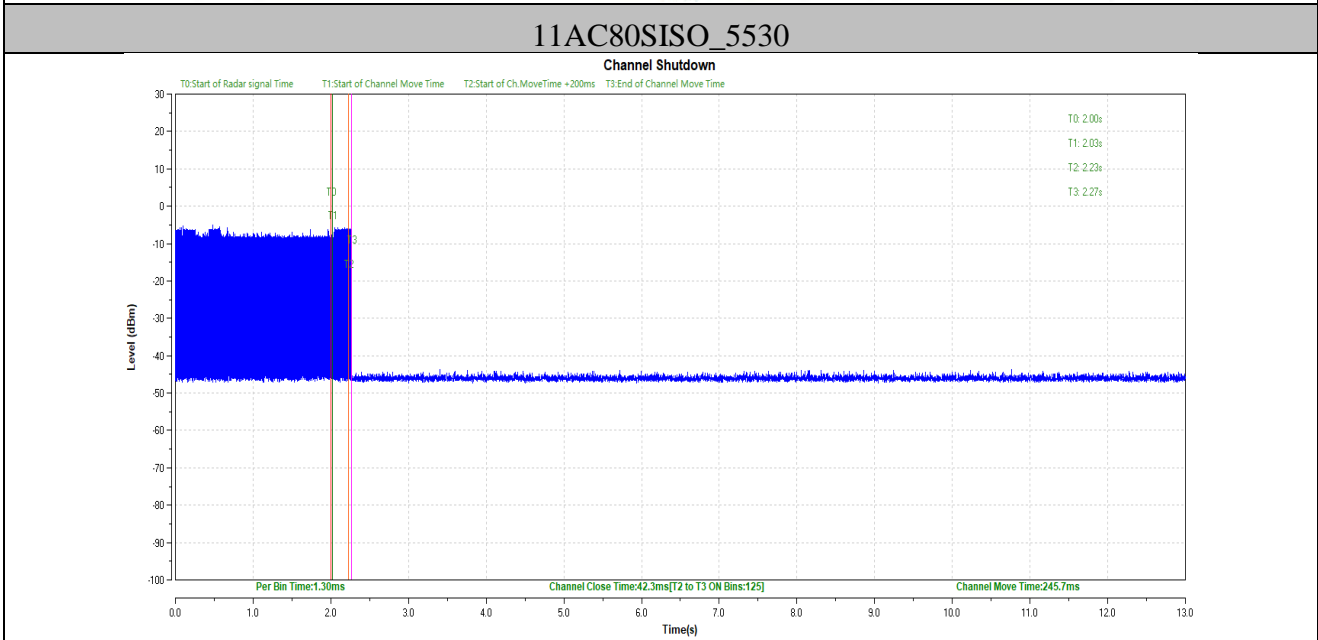
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4.12.4.3 Non-Occupancy Period

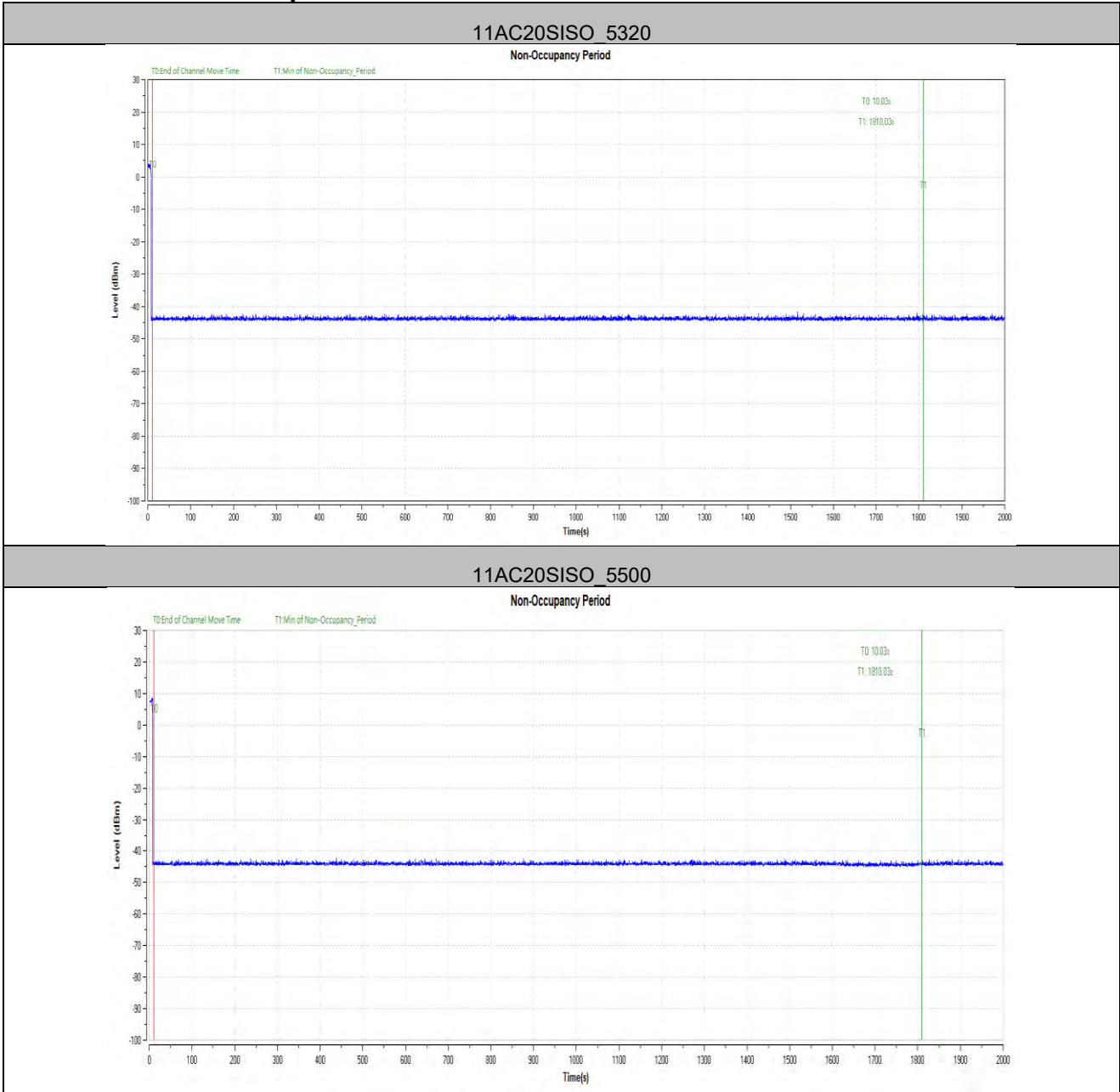
4.12.4.3.1 Test Result

TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS



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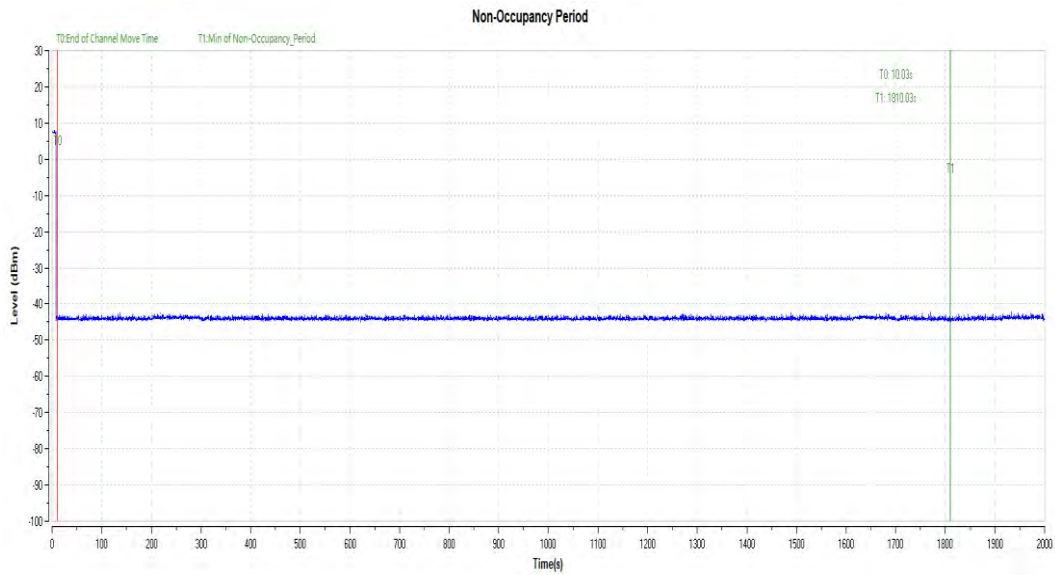
4.12.4.3.2 Test Graphs



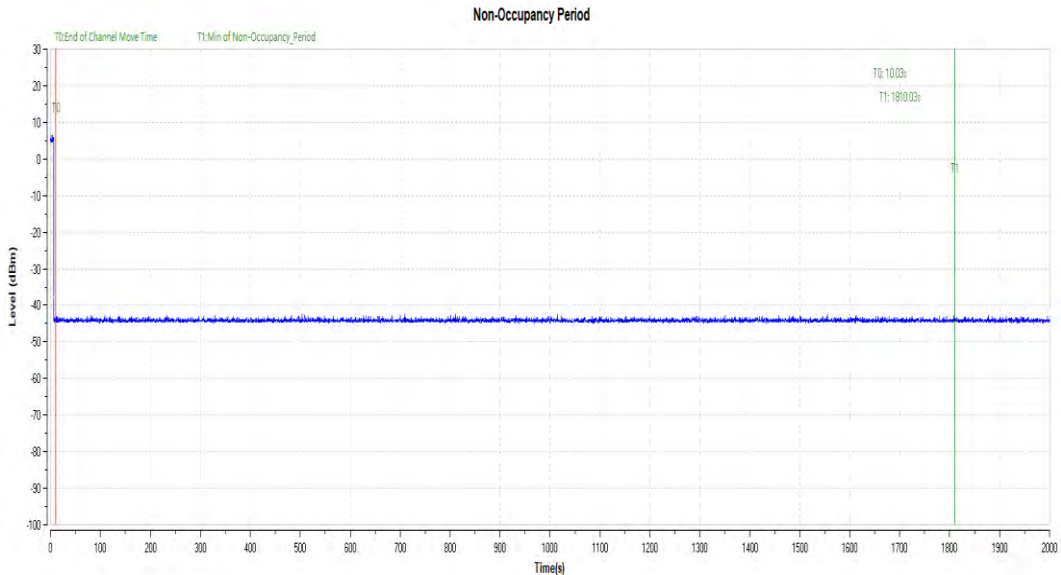
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Remark: All test were performed by Lab A and B.

Parts of test items above were subcontracted to Lab B.

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Lab B: SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	Radiated Spurious emission test	±4.8dB (30MHz-1GHz)
		±5.2dB (1GHz-6GHz)
		±5.5dB (6GHz-18GHz)
		±5.02dB (18GHz-40GHz)
2	Conduct emission test	±3.4 dB (9KHz- 30MHz)



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6 Equipment List

RF conducted					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/4/16	2021/4/15
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020/7/15	2021/7/15
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2020/4/21	2021/4/20

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

DFS					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2020/4/16 2021/4/1	2021/4/15 2022/3/31
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2021/4/1 2020/4/16	2022/3/31 2021/4/15
MXG vector signal Generator	Agilent	N5182A	XAW01-07-17	2021/4/1 2020/4/16	2022/03/31 2021/4/15



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
				2021-04-01	2022-03-31
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2019-06-28	2020-06-27
				2020-04-15	2021-04-14
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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7 Photographs - EUT Constructional Details

Refer to Appendix A Setup Photos.



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Appendix



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Emission Bandwidth
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.620	5169.770	5189.390	---	PASS
		5200	19.560	5189.860	5209.420	---	PASS
		5240	19.800	5229.800	5249.600	---	PASS
		5260	19.590	5249.800	5269.390	---	PASS
		5300	19.830	5289.800	5309.630	---	PASS
		5320	21.540	5309.830	5331.370	---	PASS
		5500	19.620	5489.770	5509.390	---	PASS
		5580	19.800	5569.800	5589.600	---	PASS
		5700	19.800	5689.770	5709.570	---	PASS
		5745	20.010	5734.740	5754.750	---	PASS
		5785	19.980	5774.740	5794.720	---	PASS
		5825	19.980	5814.770	5834.750	---	PASS
		11N20SISO	Ant1	5180	20.760	5169.560	5190.320
5200	20.790			5189.530	5210.320	---	PASS
5240	20.820			5229.530	5250.350	---	PASS
5260	20.790			5249.560	5270.350	---	PASS
5300	20.670			5289.620	5310.290	---	PASS
5320	20.730			5309.590	5330.320	---	PASS
5500	20.790			5489.560	5510.350	---	PASS
5580	20.730			5569.530	5590.260	---	PASS
5700	20.760			5689.560	5710.320	---	PASS
5745	20.880			5734.500	5755.380	---	PASS
5785	20.880			5774.500	5795.380	---	PASS
5825	20.910			5814.530	5835.440	---	PASS
11N40SISO	Ant1			5190	41.040	5169.480	5210.520
		5230	41.100	5209.360	5250.460	---	PASS
		5270	41.160	5249.420	5290.580	---	PASS
		5310	41.400	5289.420	5330.820	---	PASS
		5510	41.700	5488.820	5530.520	---	PASS



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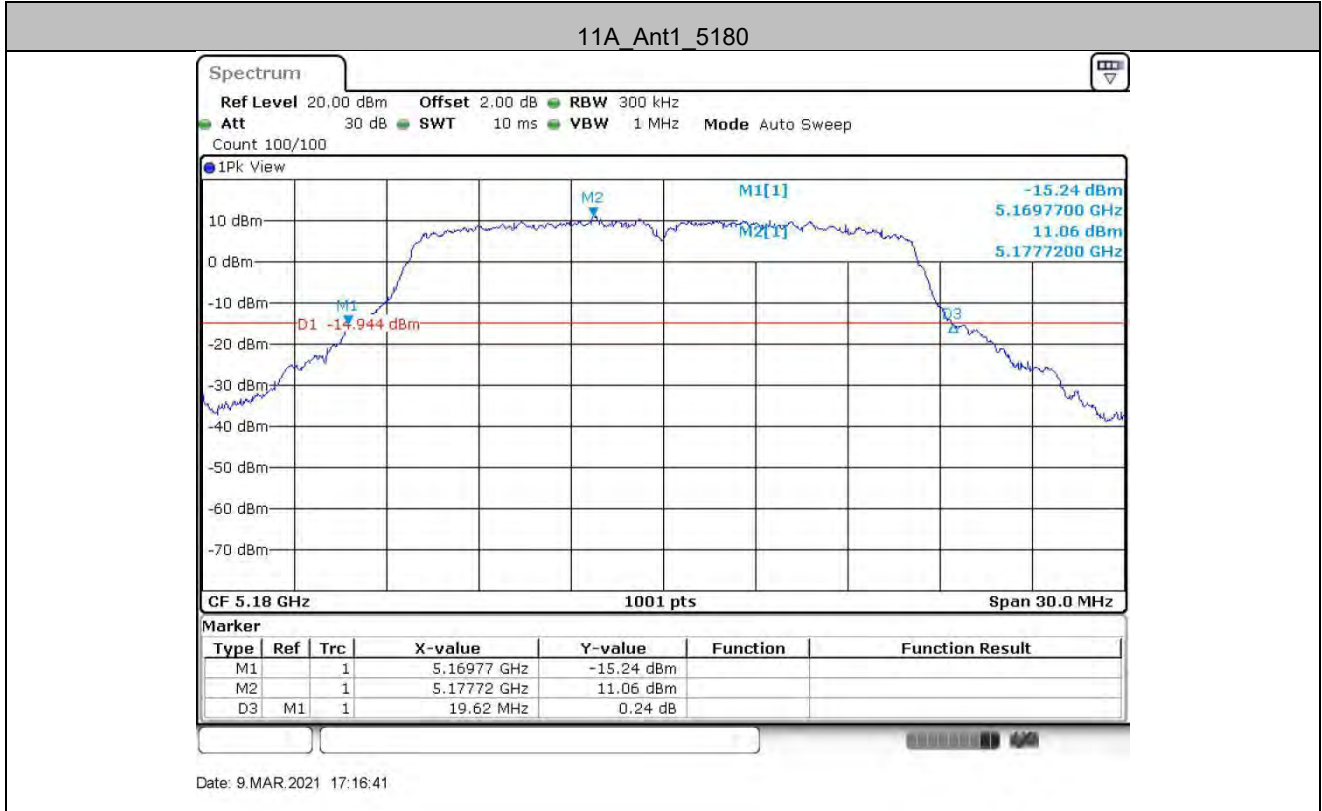
		5550	41.100	5529.360	5570.460	---	PASS
		5670	41.400	5649.300	5690.700	---	PASS
		5755	41.580	5734.000	5775.580	---	PASS
		5795	41.220	5774.420	5815.640	---	PASS
11AC20SISO	Ant1	5180	20.820	5169.530	5190.350	---	PASS
		5200	20.670	5189.590	5210.260	---	PASS
		5240	20.730	5229.530	5250.260	---	PASS
		5260	20.820	5249.530	5270.350	---	PASS
		5300	20.700	5289.620	5310.320	---	PASS
		5320	20.760	5309.560	5330.320	---	PASS
		5500	20.790	5489.560	5510.350	---	PASS
		5580	20.790	5569.560	5590.350	---	PASS
		5700	20.880	5689.500	5710.380	---	PASS
		5745	20.880	5734.500	5755.380	---	PASS
		5785	20.940	5774.500	5795.440	---	PASS
		5825	20.940	5814.500	5835.440	---	PASS
11AC40SISO	Ant1	5190	41.100	5169.360	5210.460	---	PASS
		5230	41.160	5209.360	5250.520	---	PASS
		5270	41.160	5249.360	5290.520	---	PASS
		5310	41.100	5289.420	5330.520	---	PASS
		5510	41.160	5489.360	5530.520	---	PASS
		5550	41.700	5528.820	5570.520	---	PASS
		5670	41.040	5649.360	5690.400	---	PASS
		5755	41.340	5734.240	5775.580	---	PASS
		5795	41.220	5774.540	5815.760	---	PASS
11AC80SISO	Ant1	5210	81.840	5168.960	5250.800	---	PASS
		5290	84.000	5248.000	5332.000	---	PASS
		5530	84.000	5487.640	5571.640	---	PASS
		5610	83.880	5567.760	5651.640	---	PASS
		5775	85.680	5732.880	5818.560	---	PASS



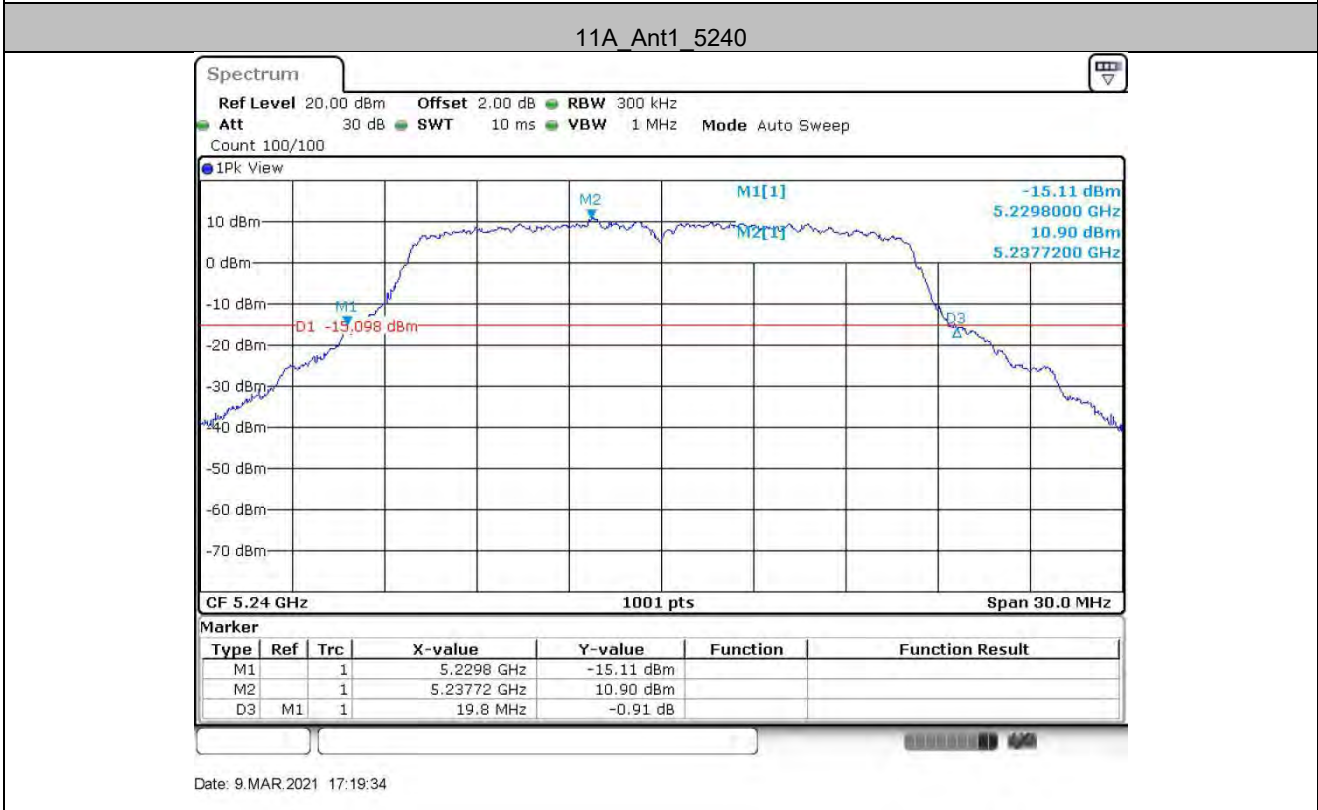
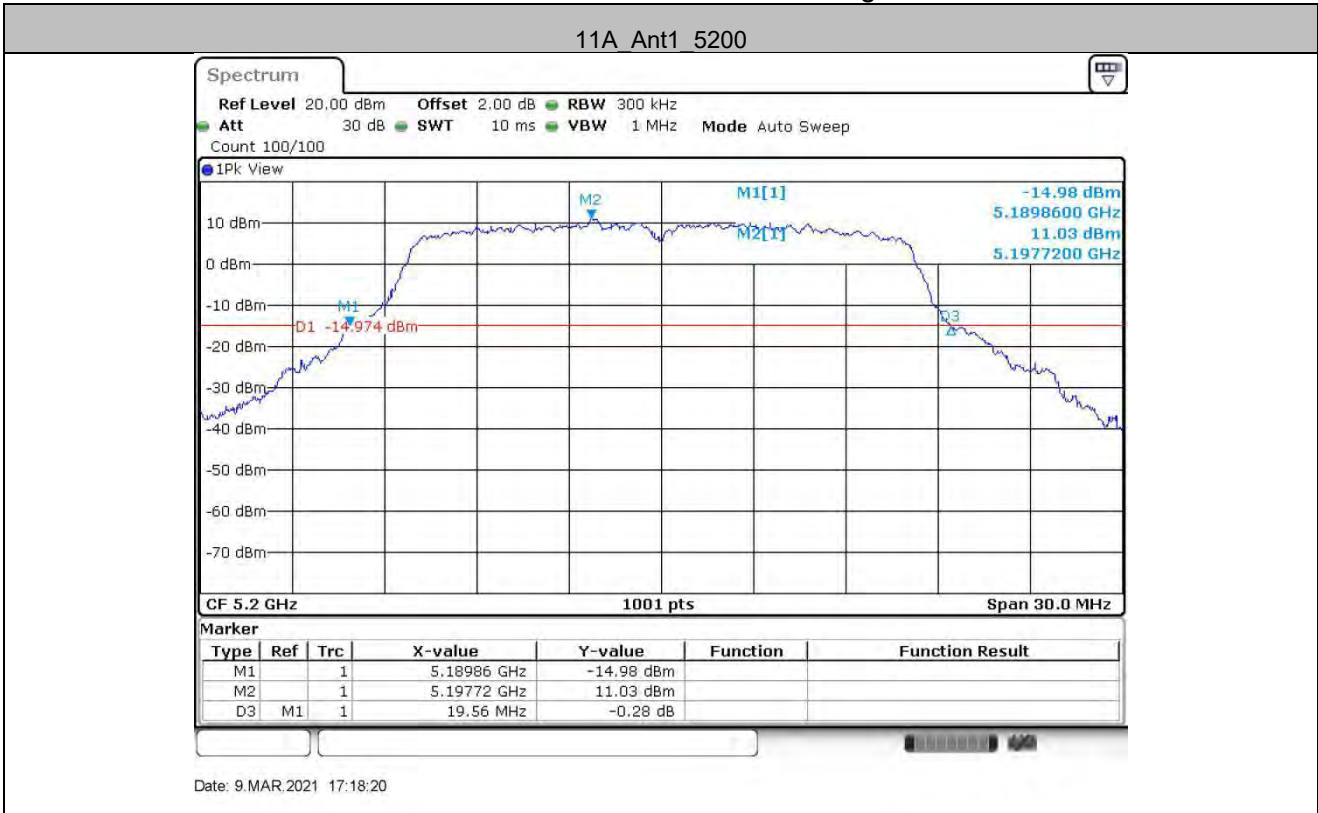
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Test Graphs

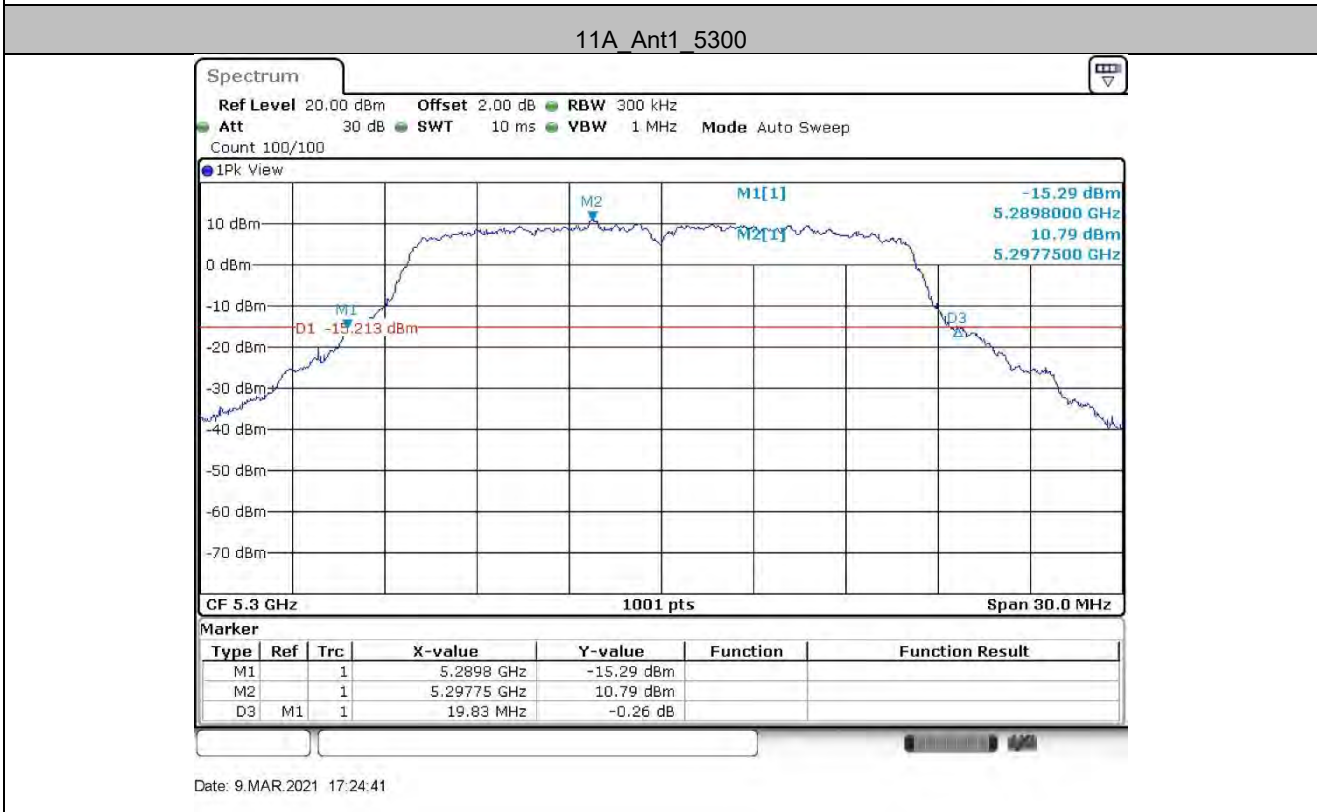
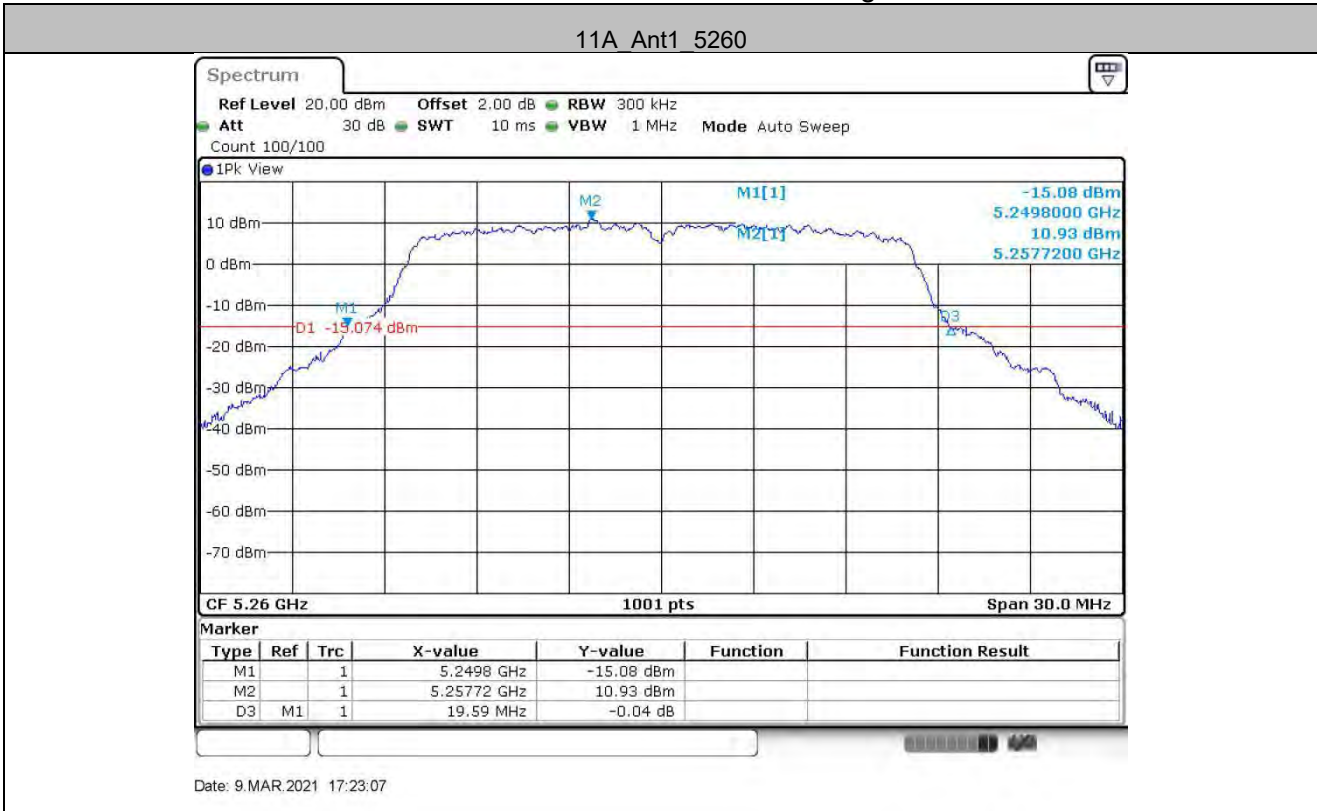


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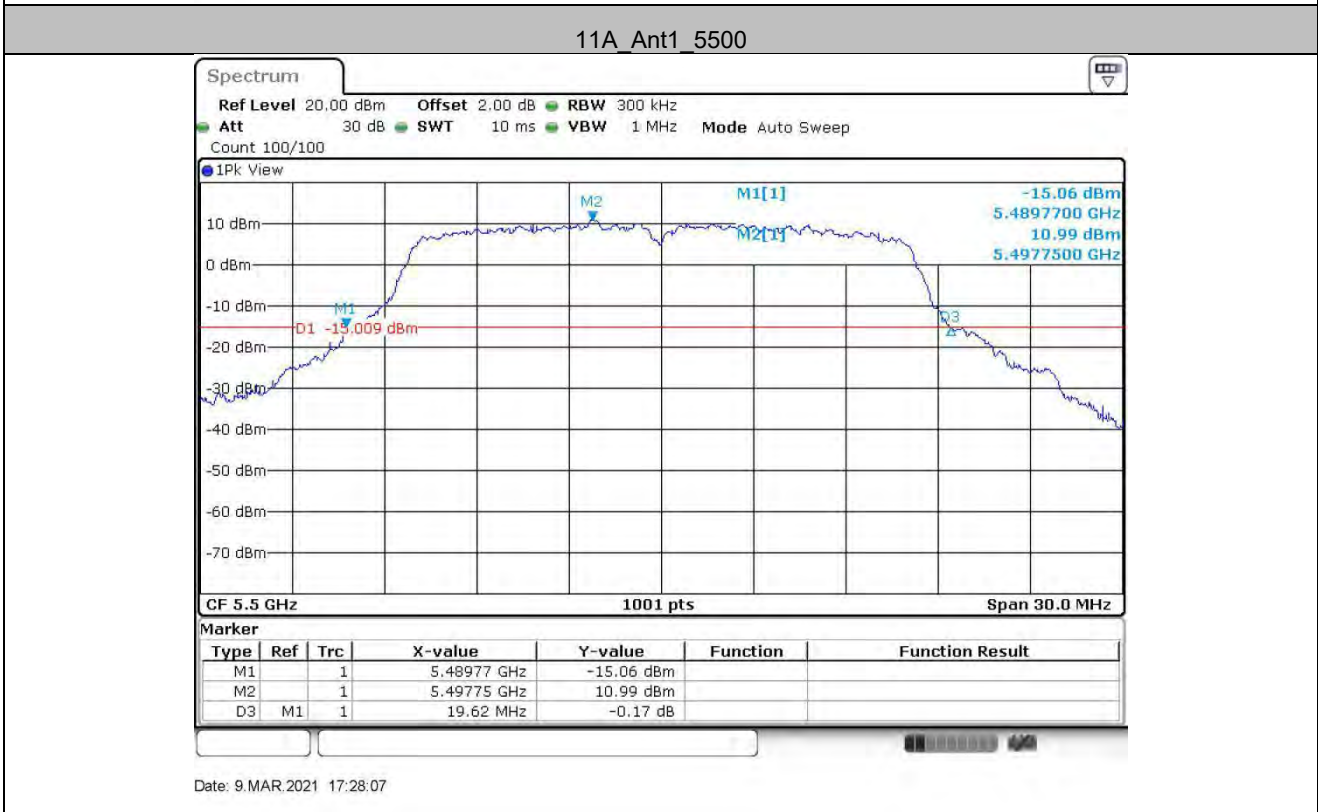
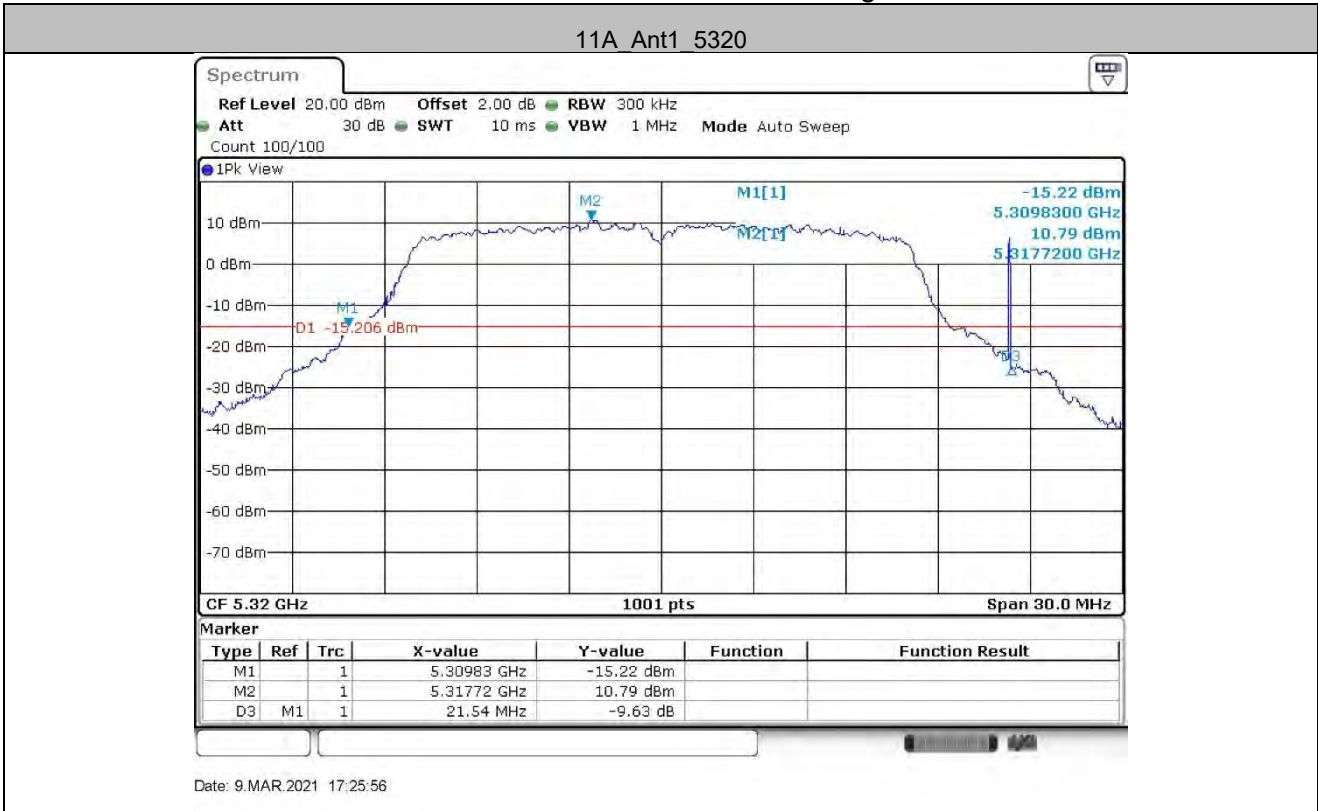


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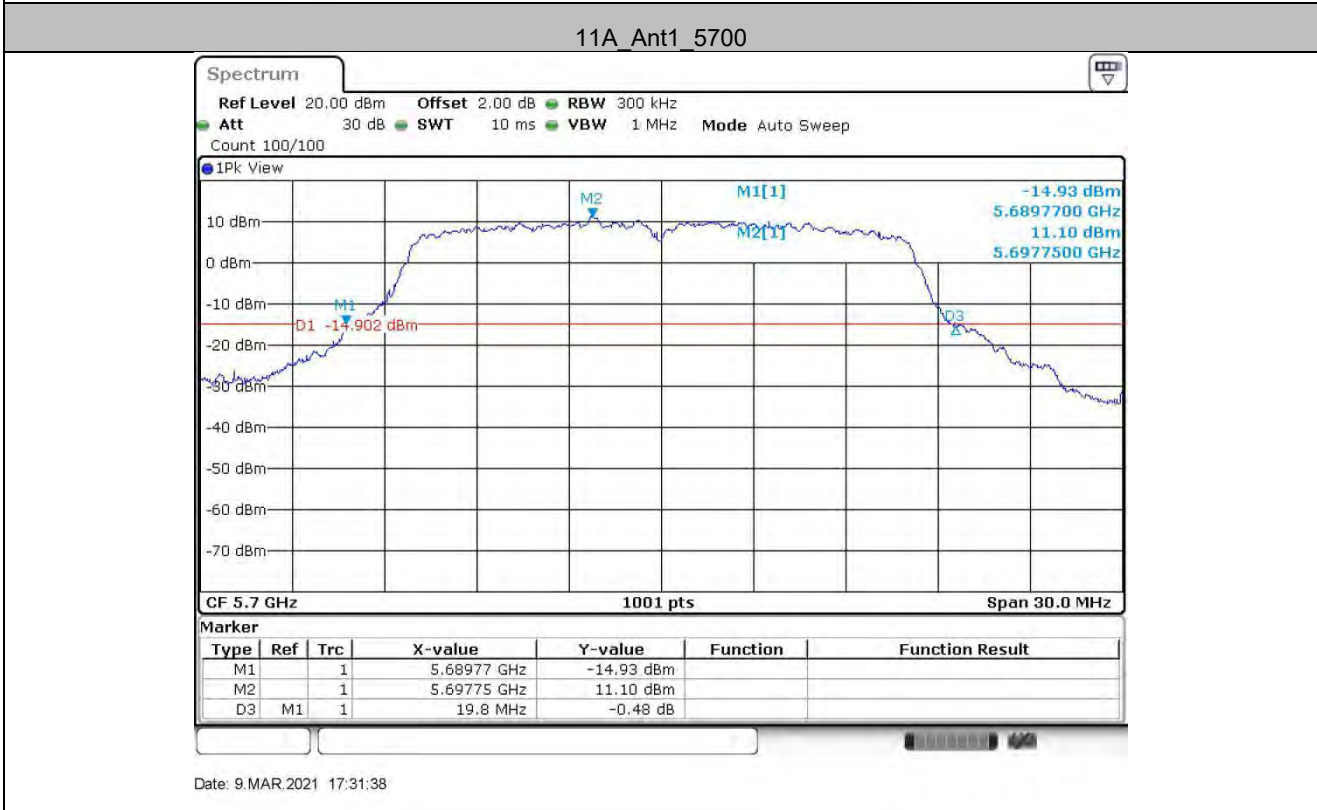
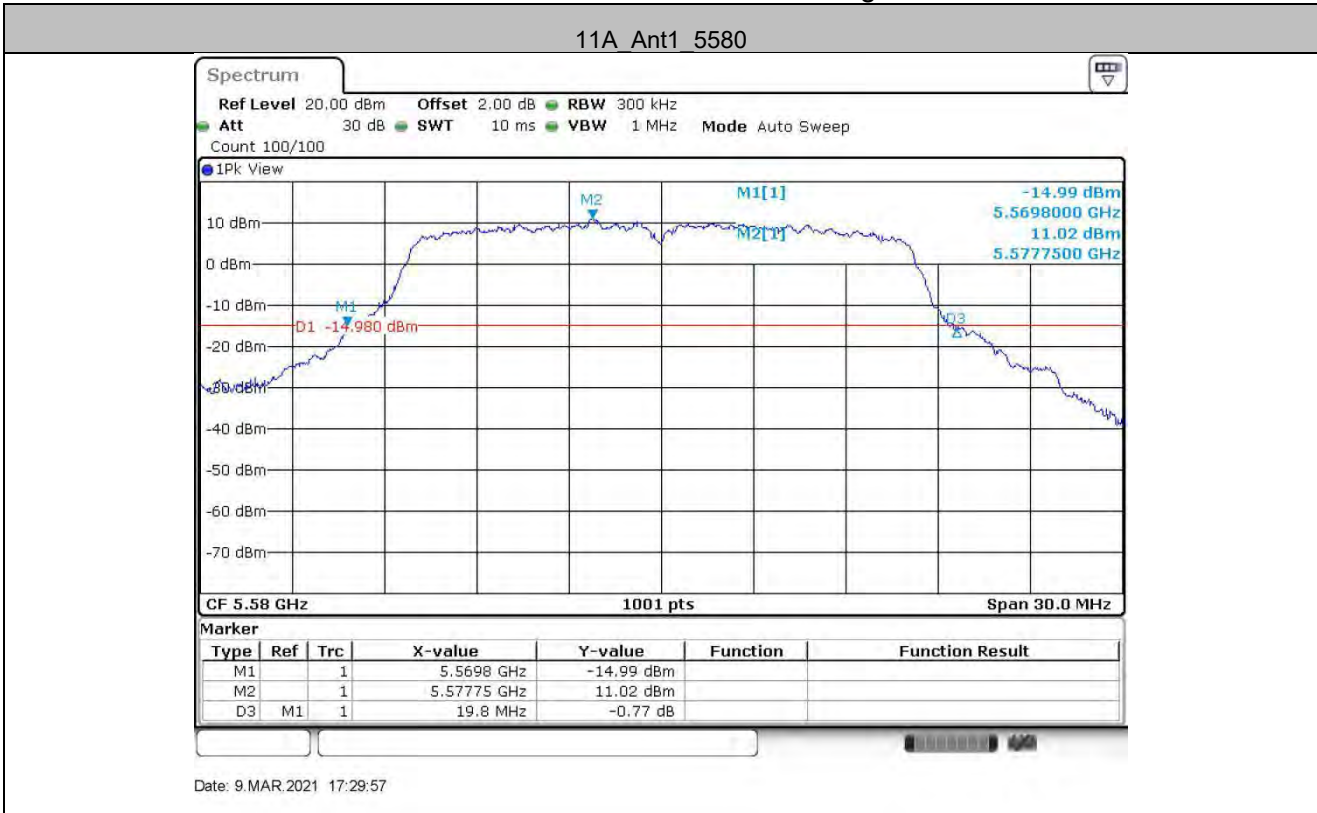
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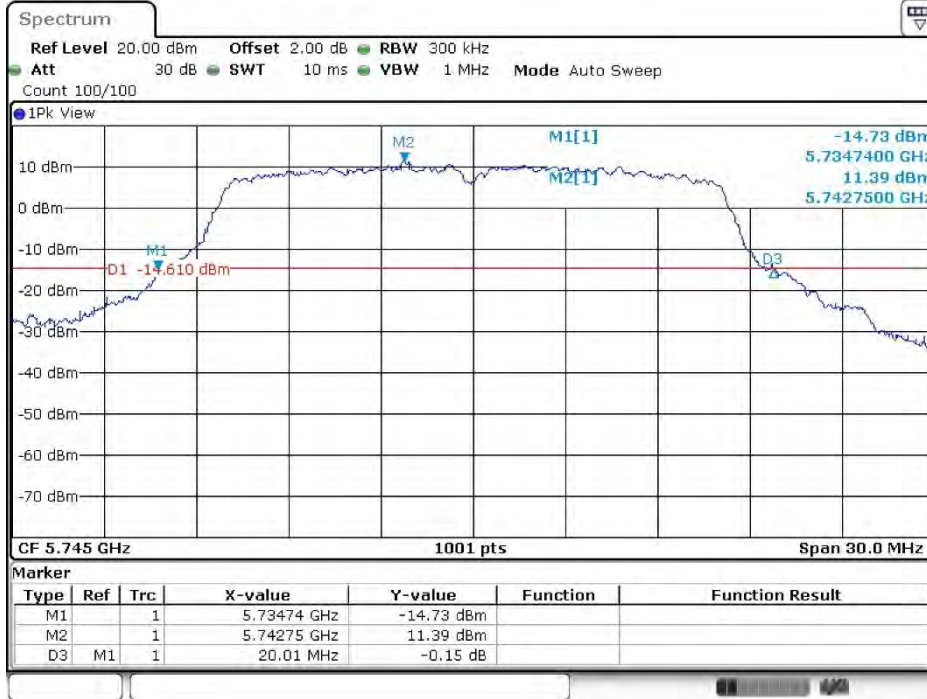


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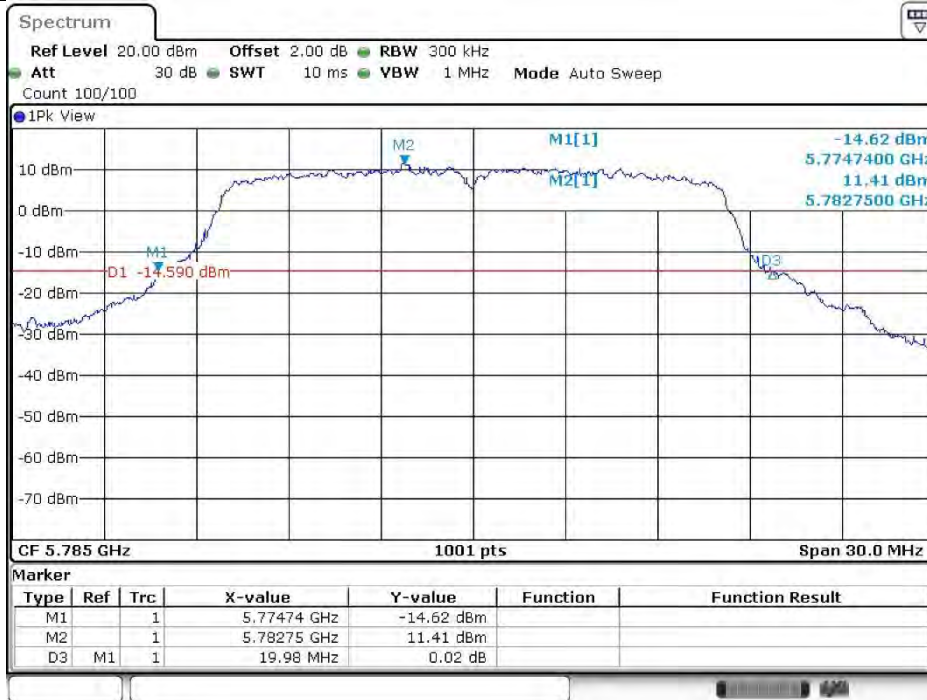
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11A Ant1 5745



Date: 9.MAR.2021 17:40:19

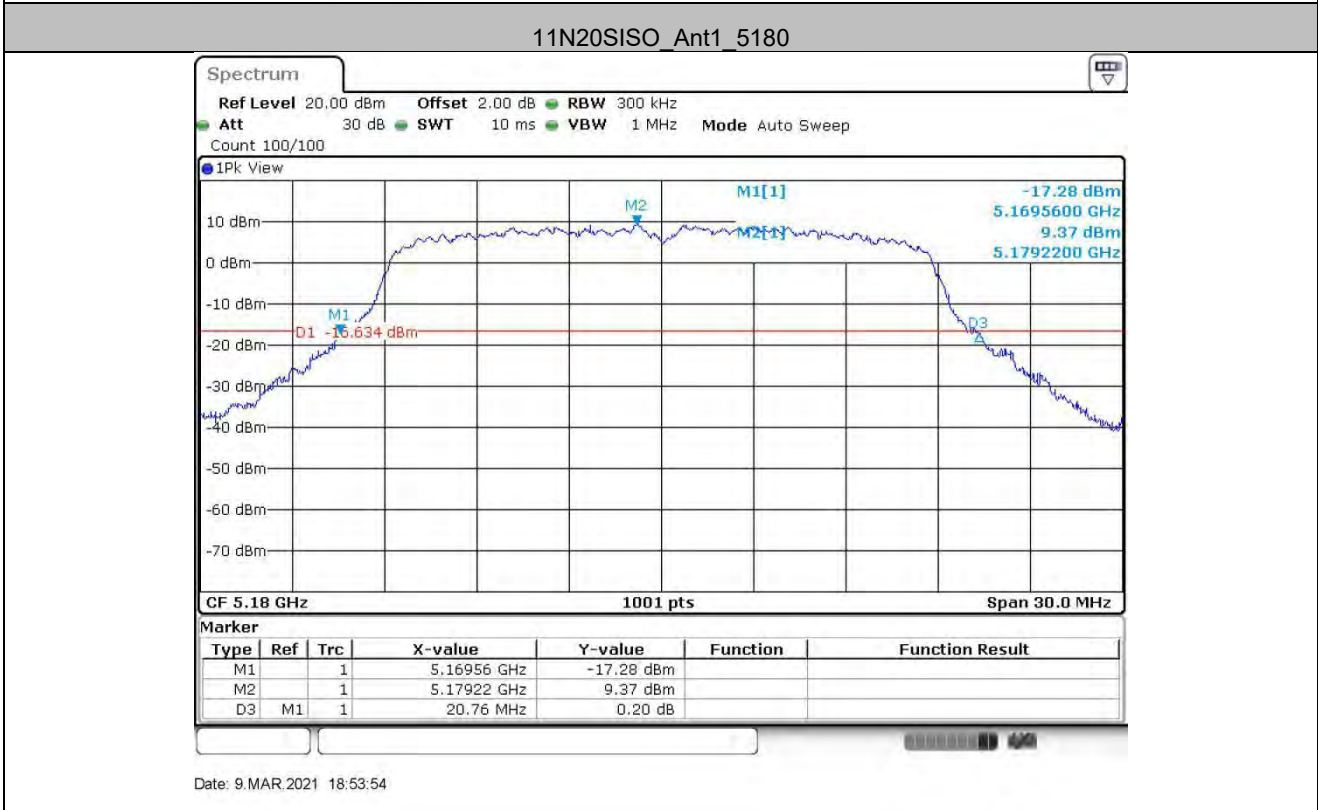
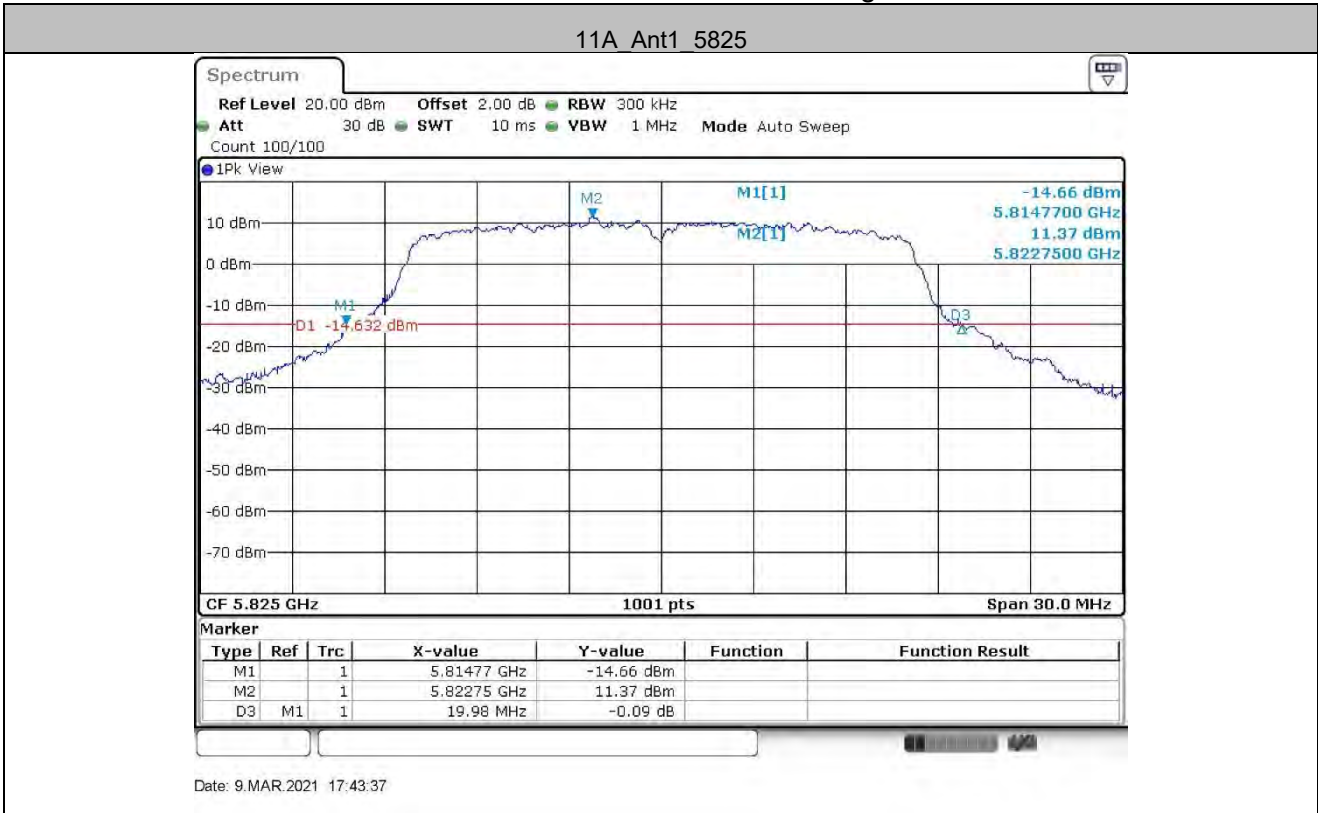
11A Ant1 5785



Date: 9.MAR.2021 17:42:15

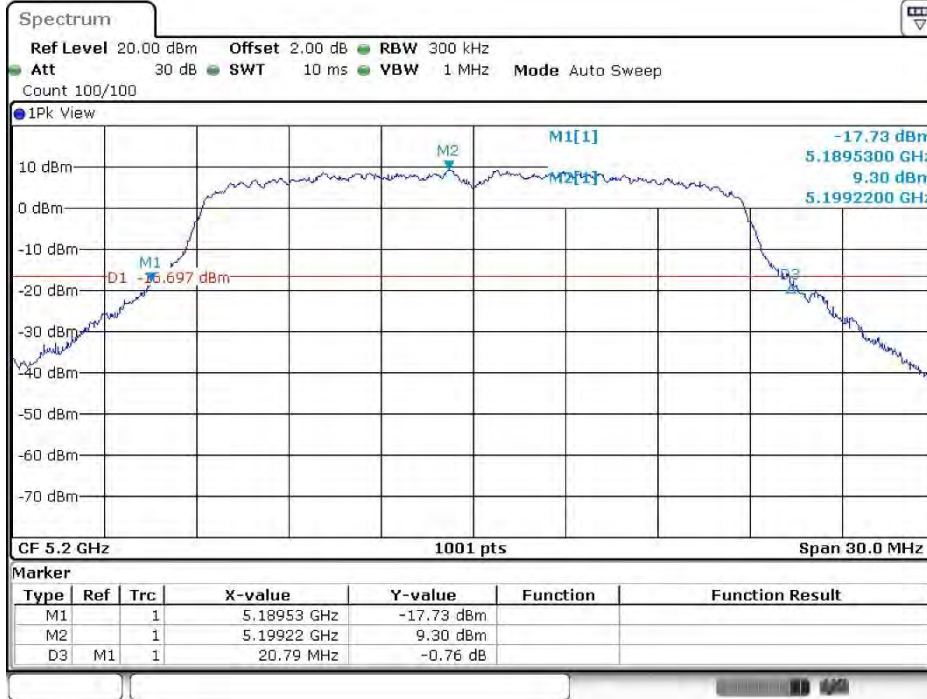


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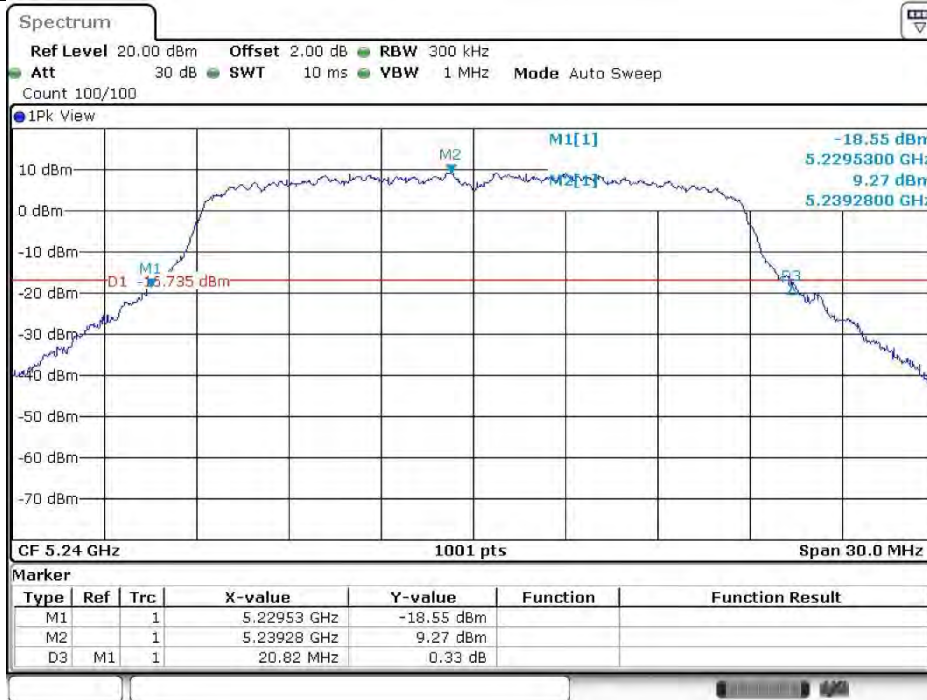
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11N20SISO Ant1_5240



Date: 9.MAR.2021 18:58:21

11N20SISO Ant1_5240

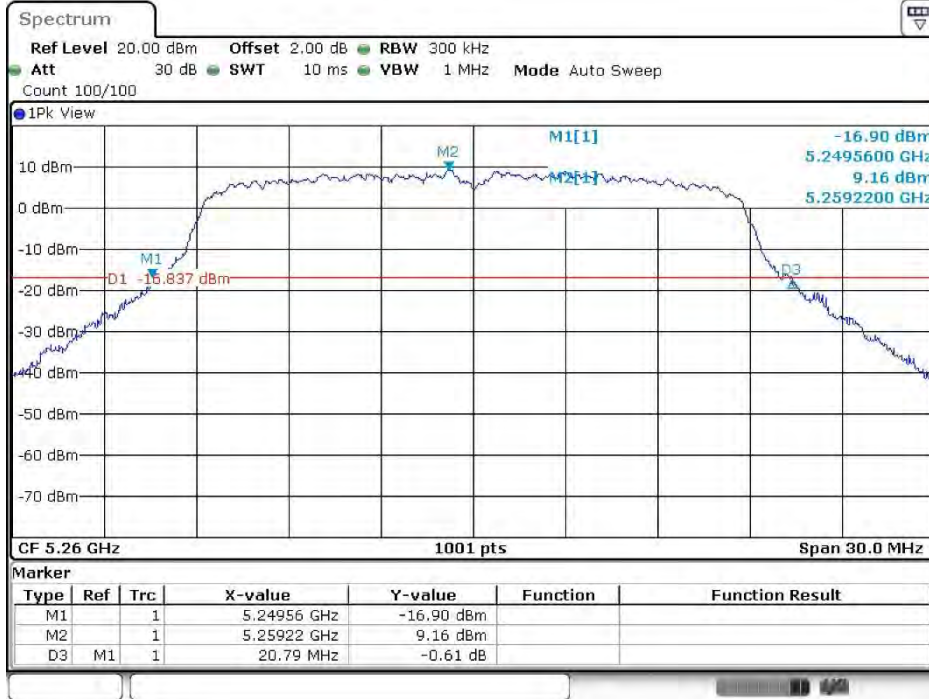


Date: 9.MAR.2021 19:00:14



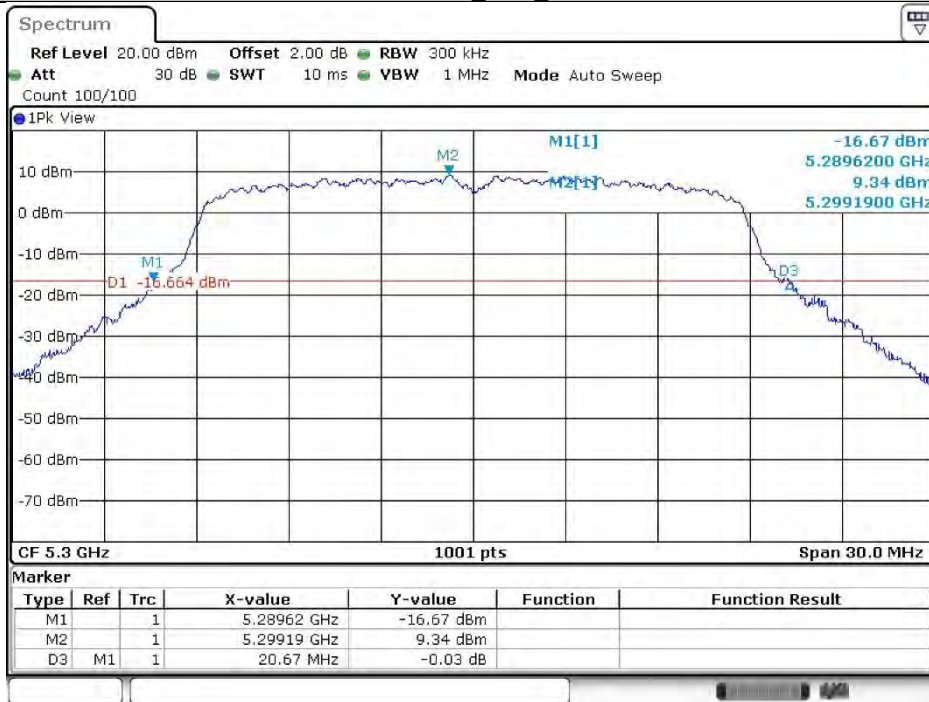
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11N20SISO_Ant1_5260



Date: 9.MAR.2021 19:01:43

11N20SISO_Ant1_5300

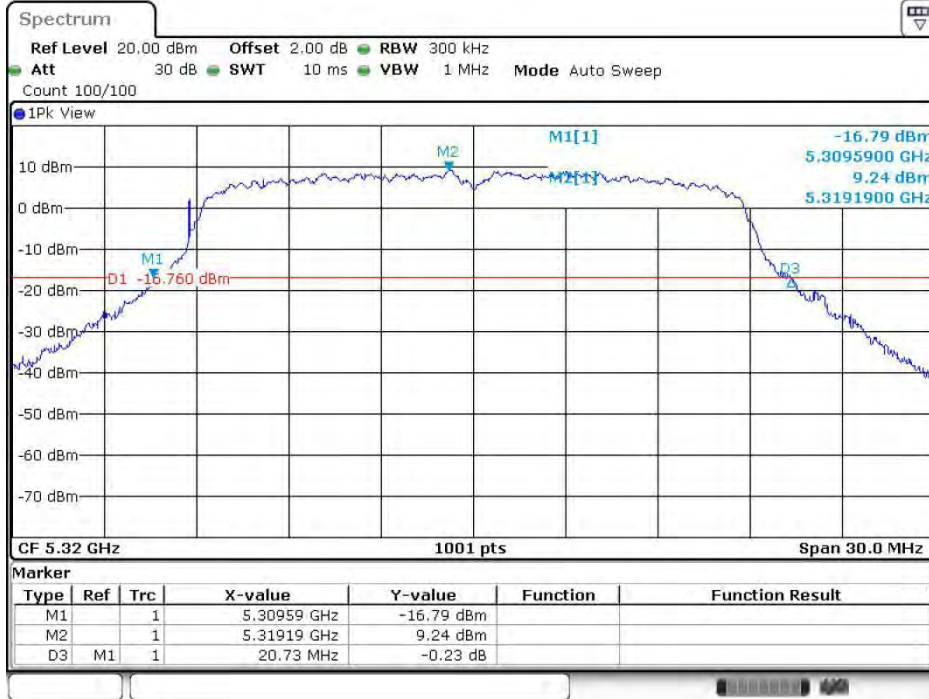


Date: 9.MAR.2021 19:03:58



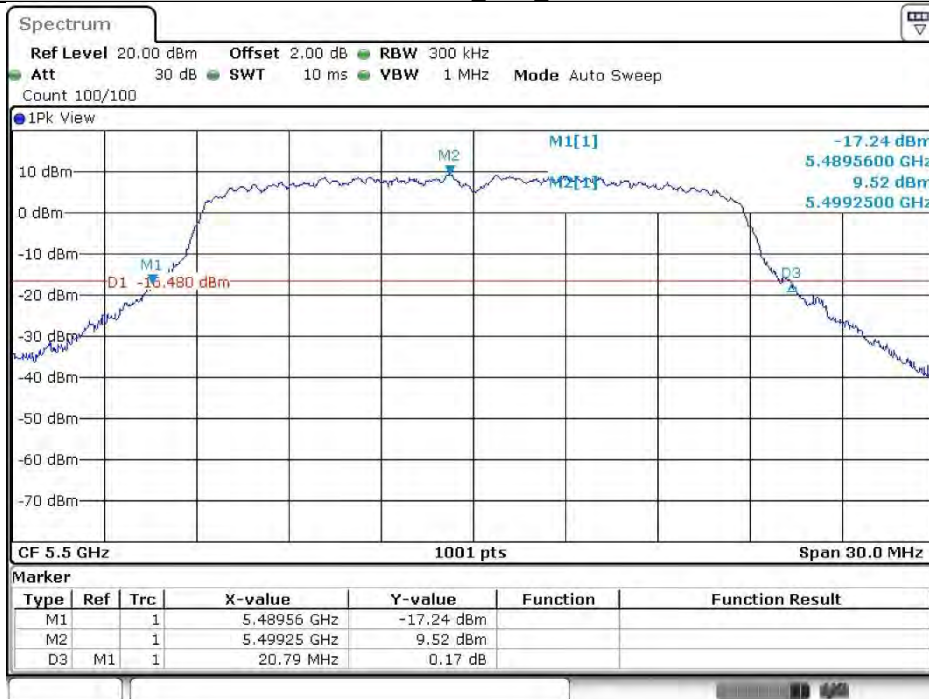
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11N20SISO_Ant1_5320



Date: 9.MAR.2021 19:05:17

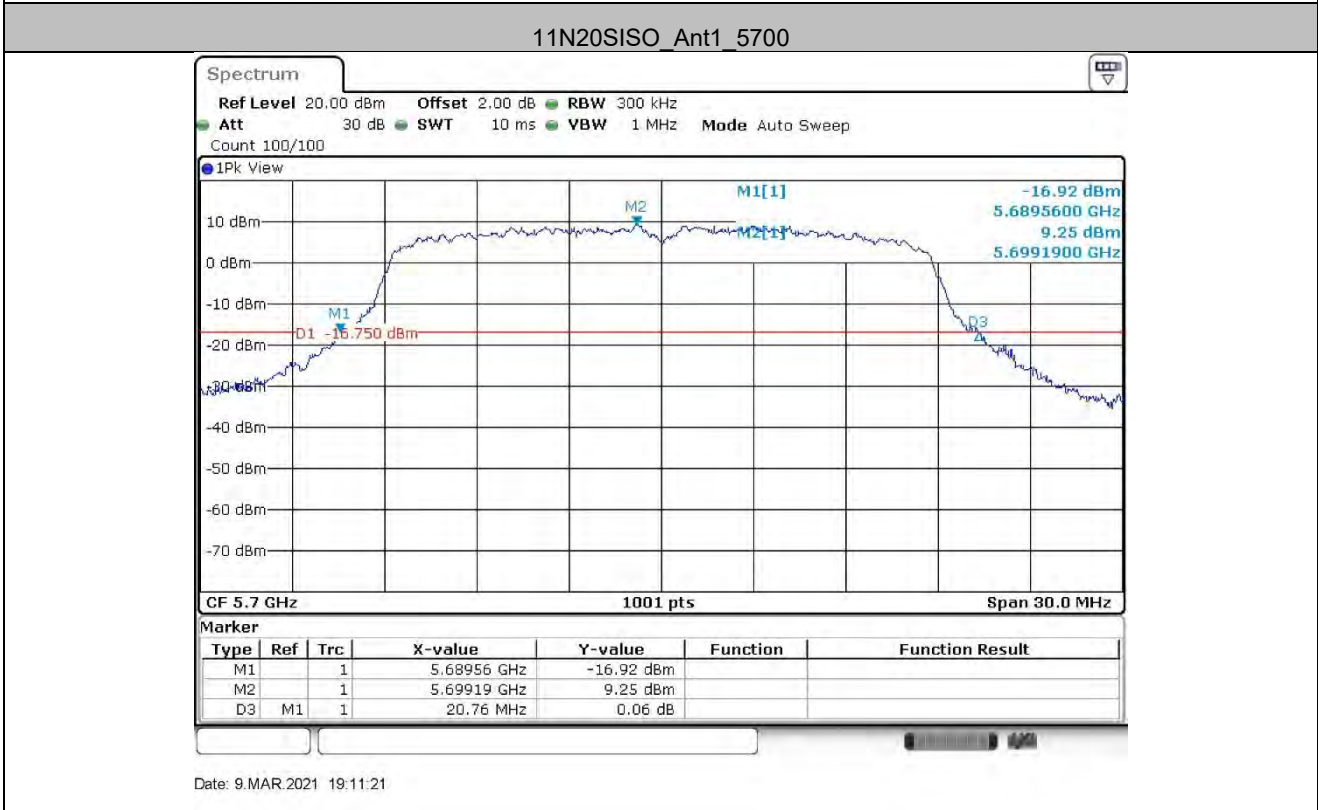
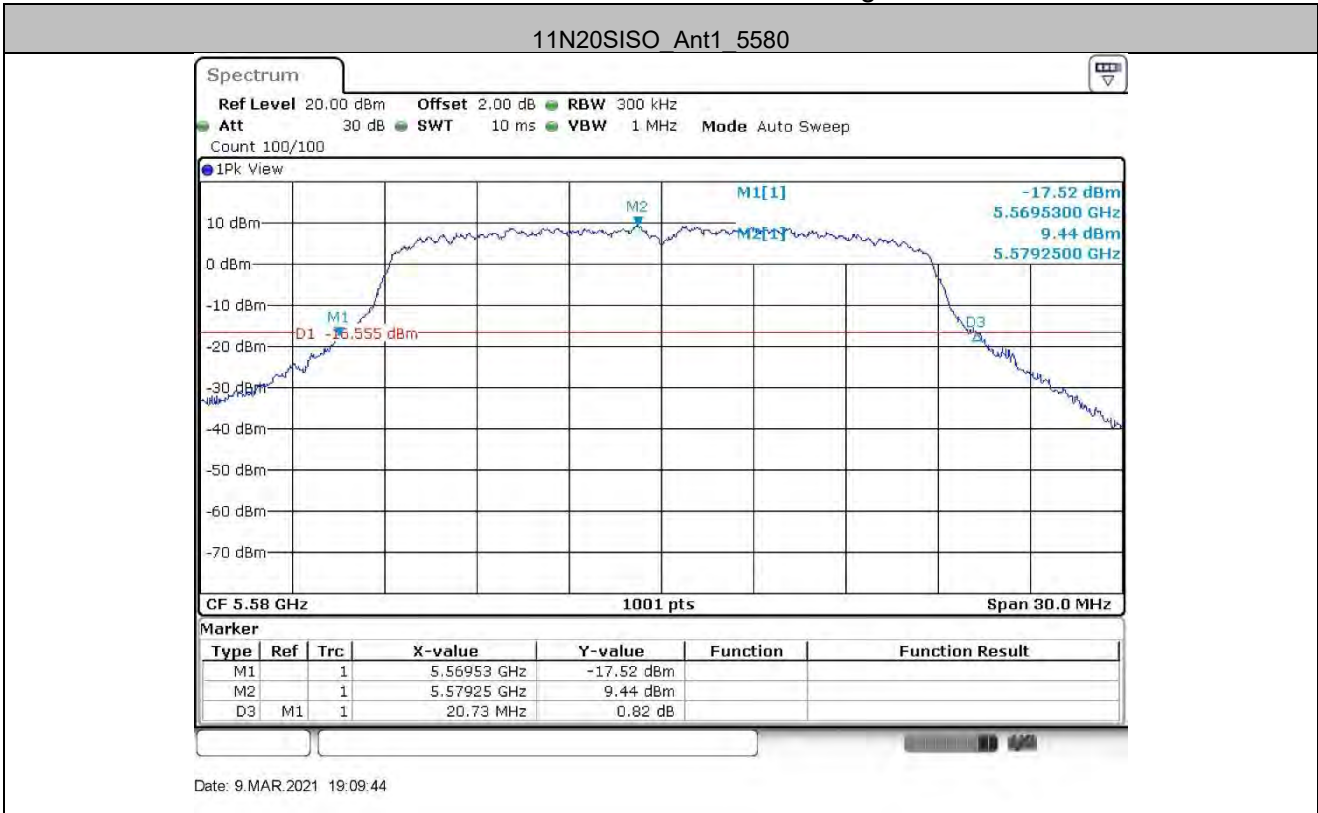
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Date: 9.MAR.2021 19:06:33

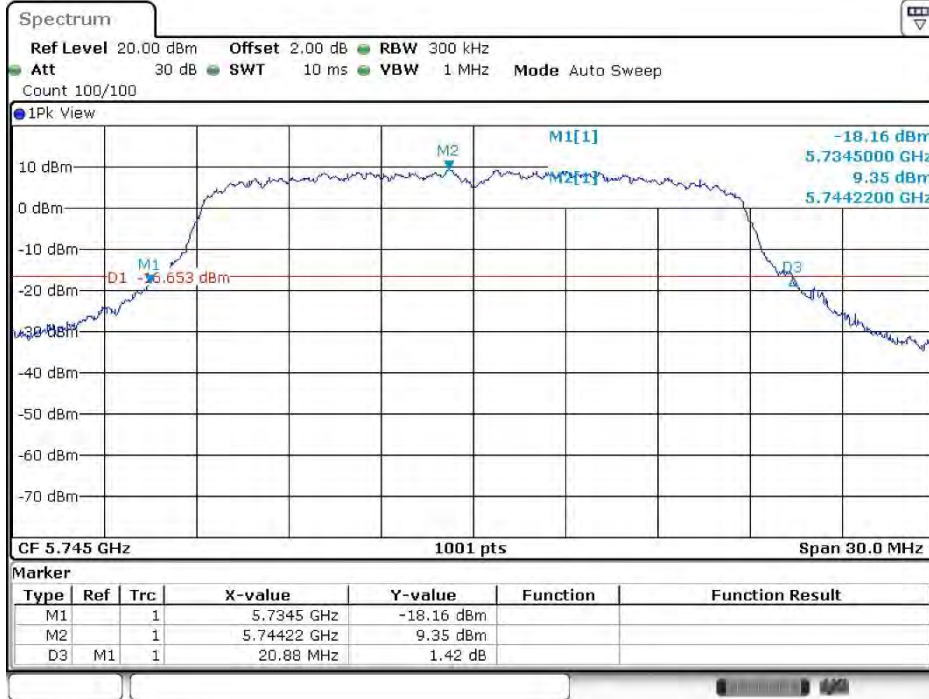


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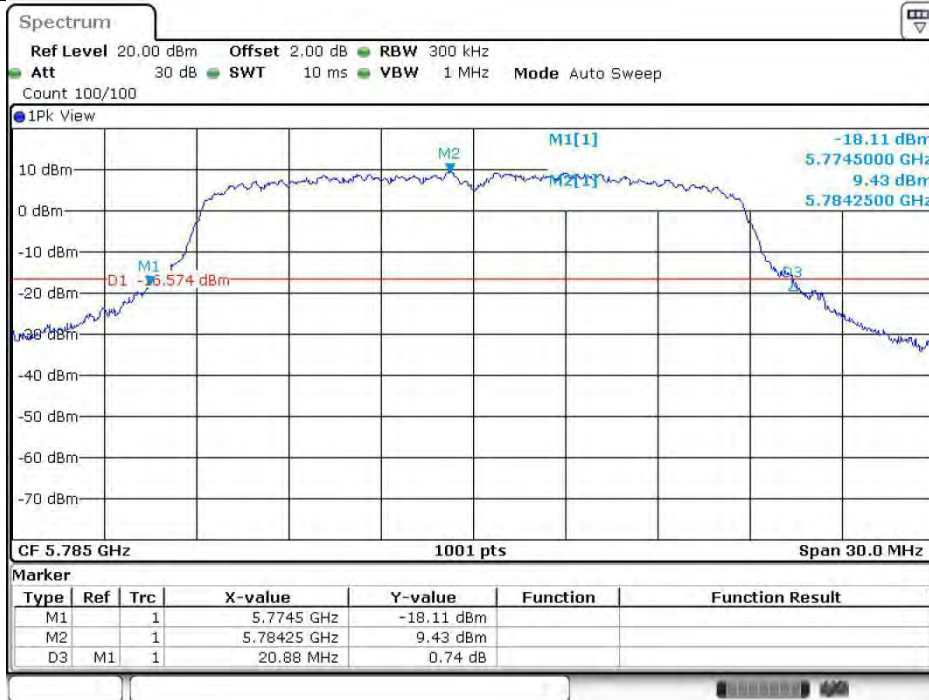
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11N20SISO_Ant1_5745



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11N20SISO_Ant1_5785

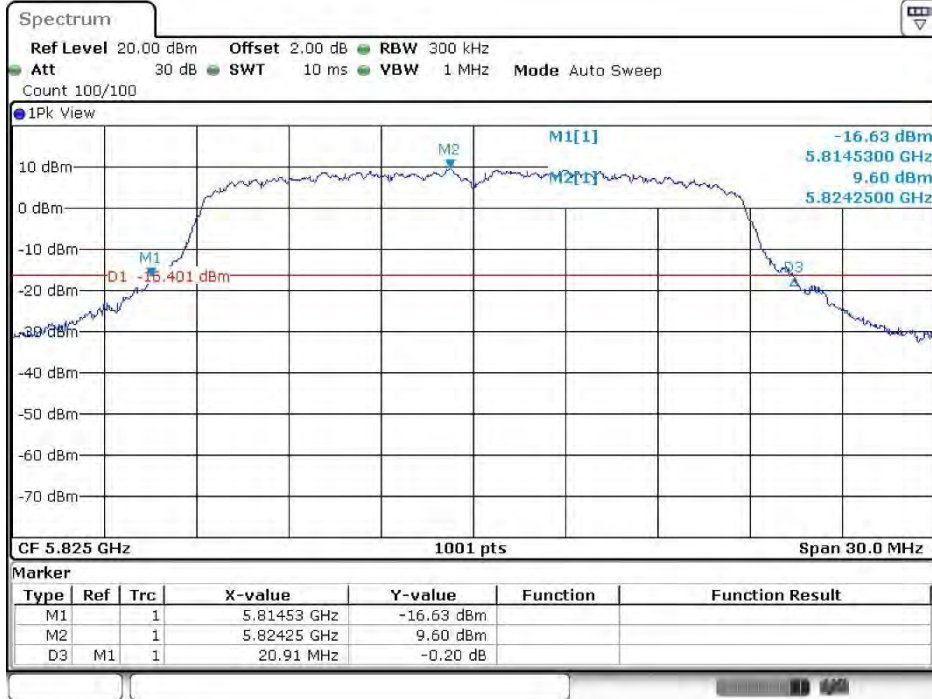


Date: 9.MAR.2021 19:15:52



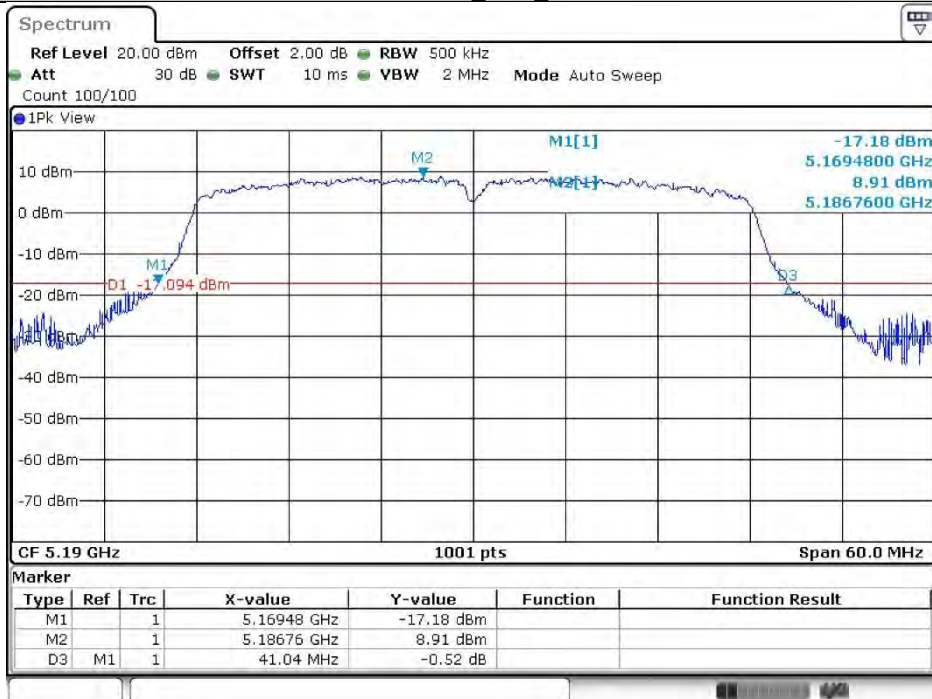
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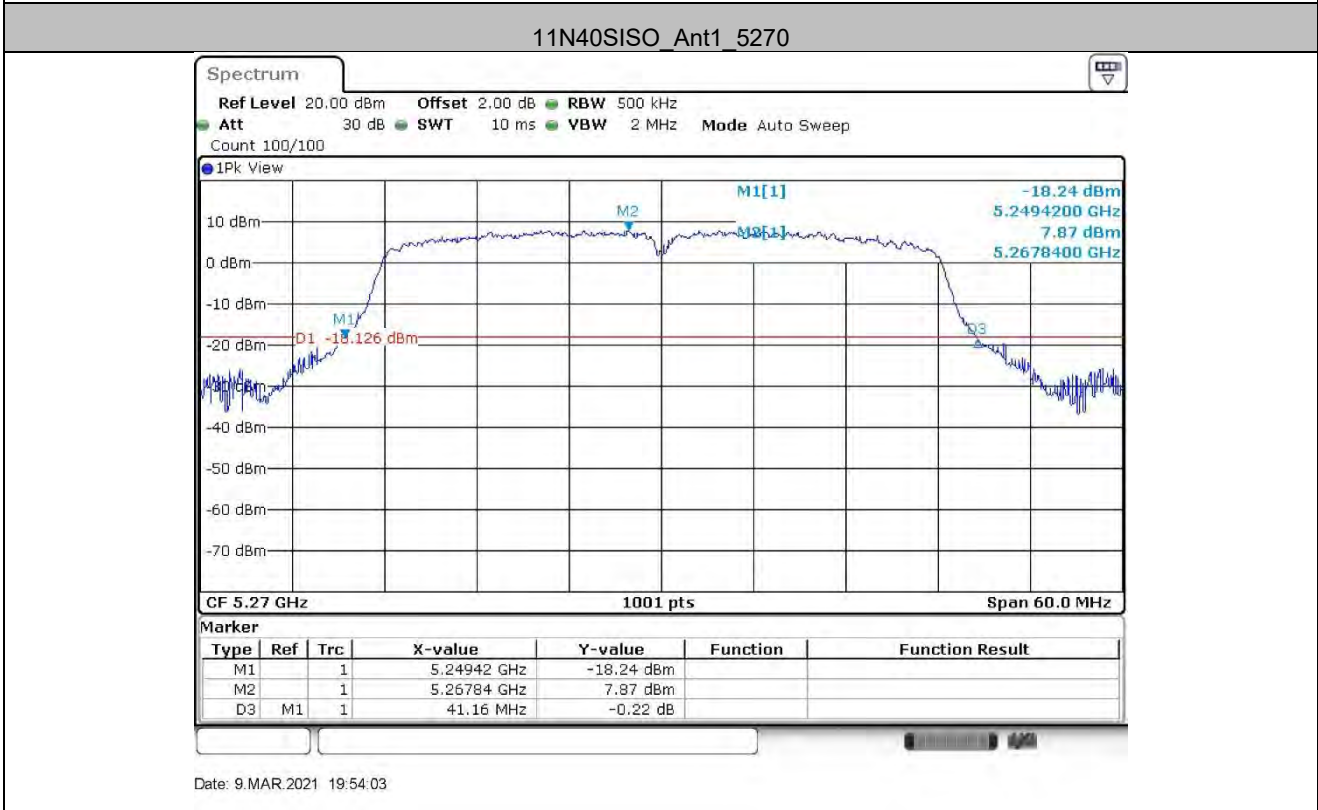
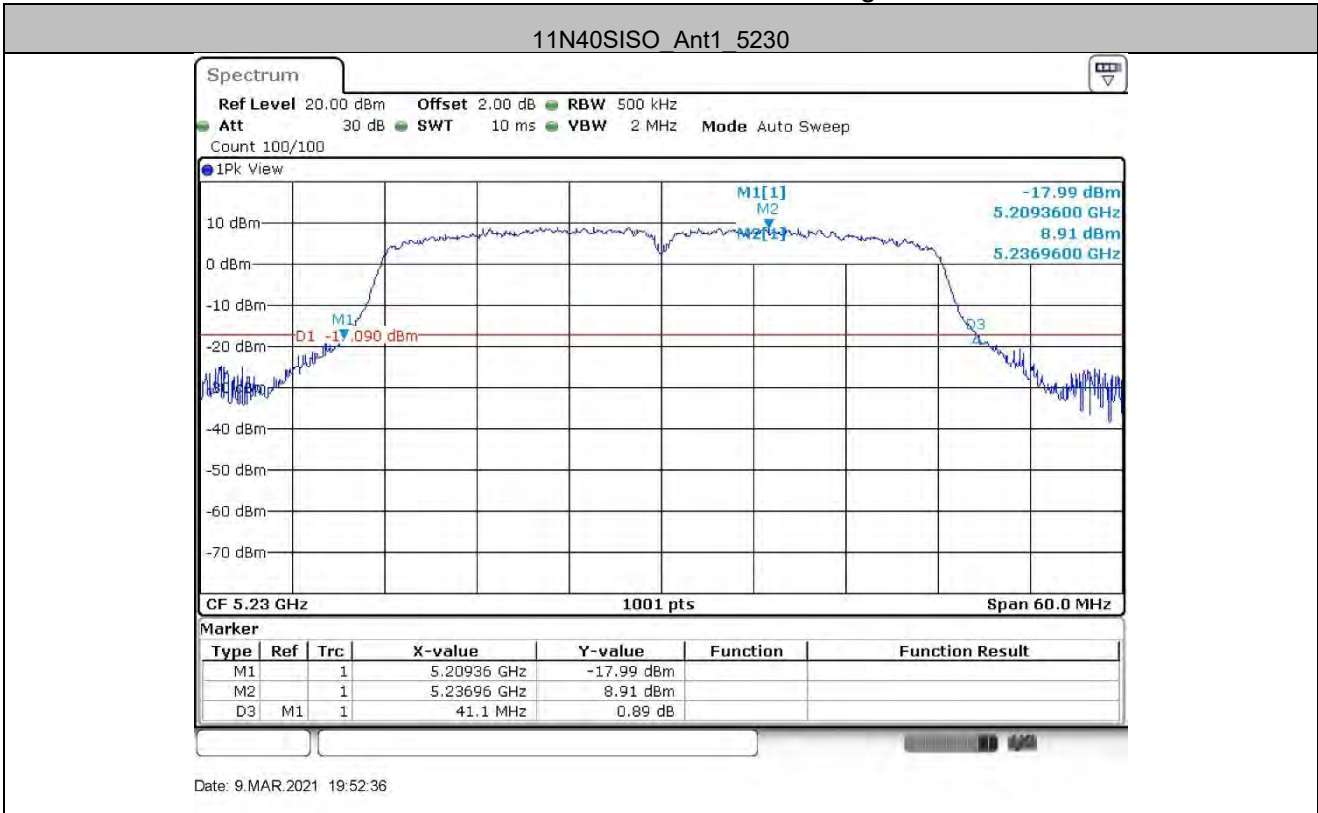
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Date: 9.MAR.2021 19:49:55



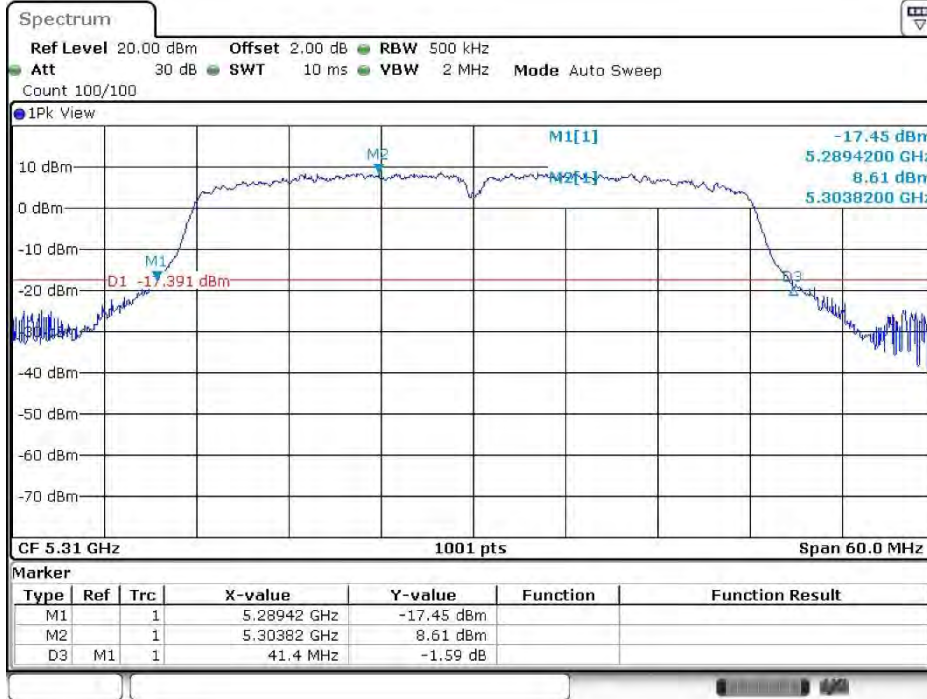
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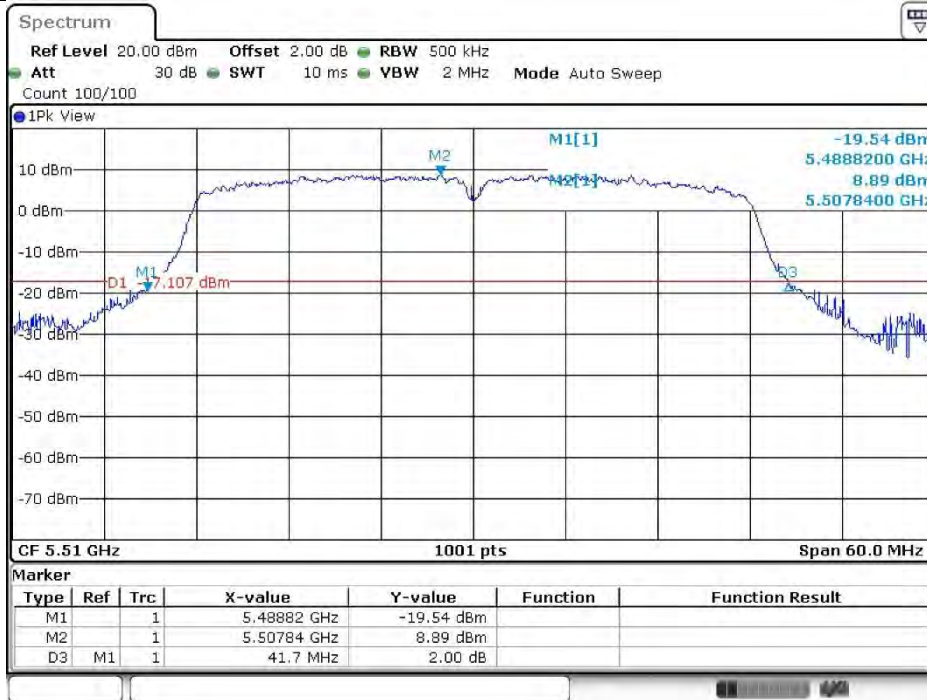
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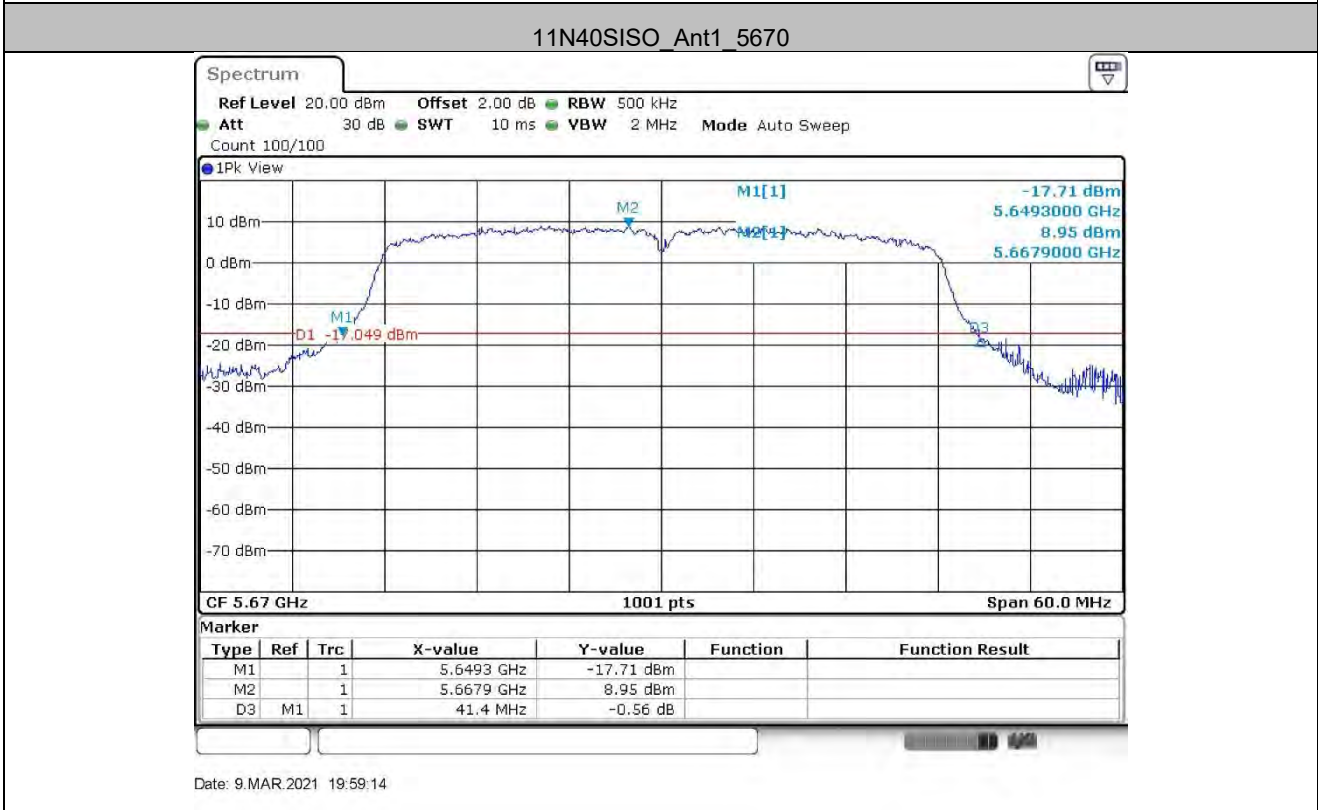
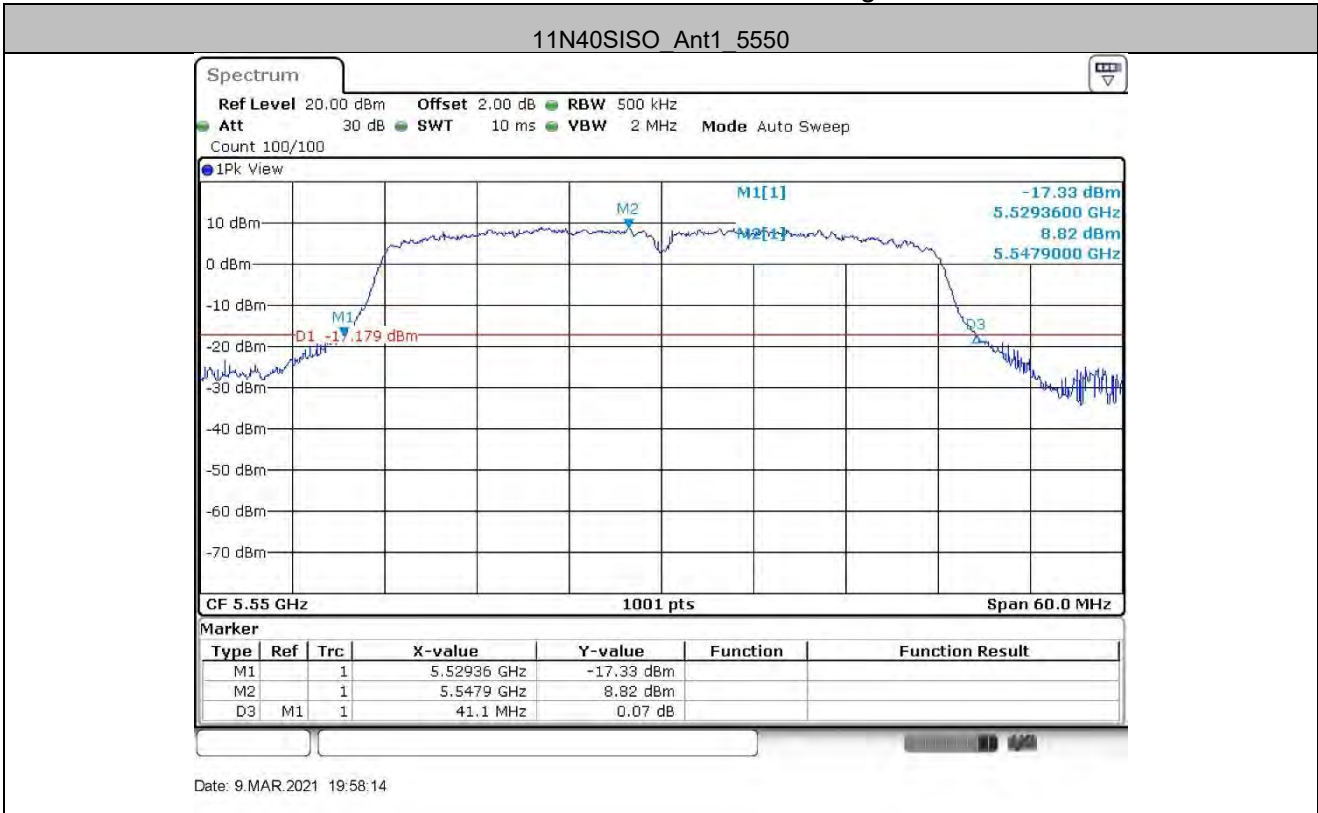


Date: 9.MAR.2021 19:56:48



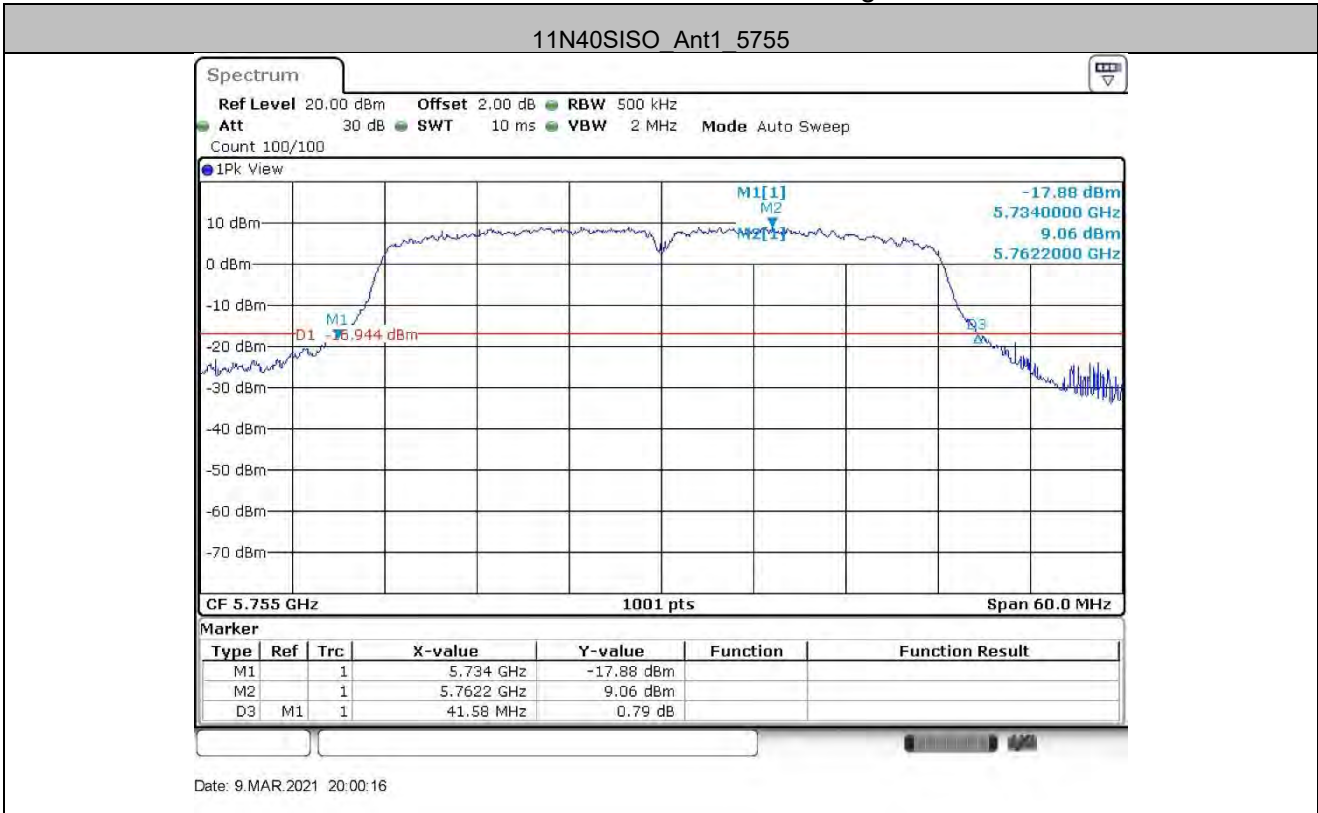
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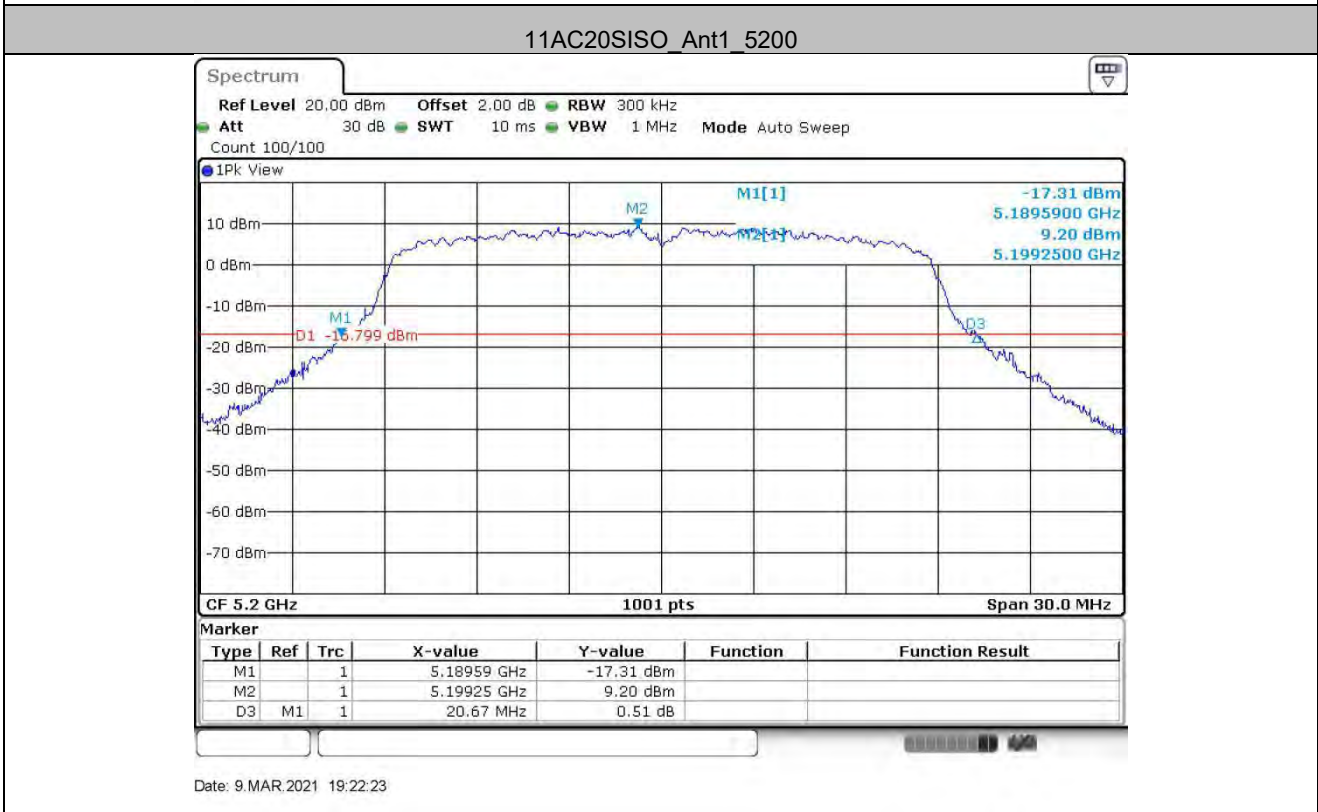
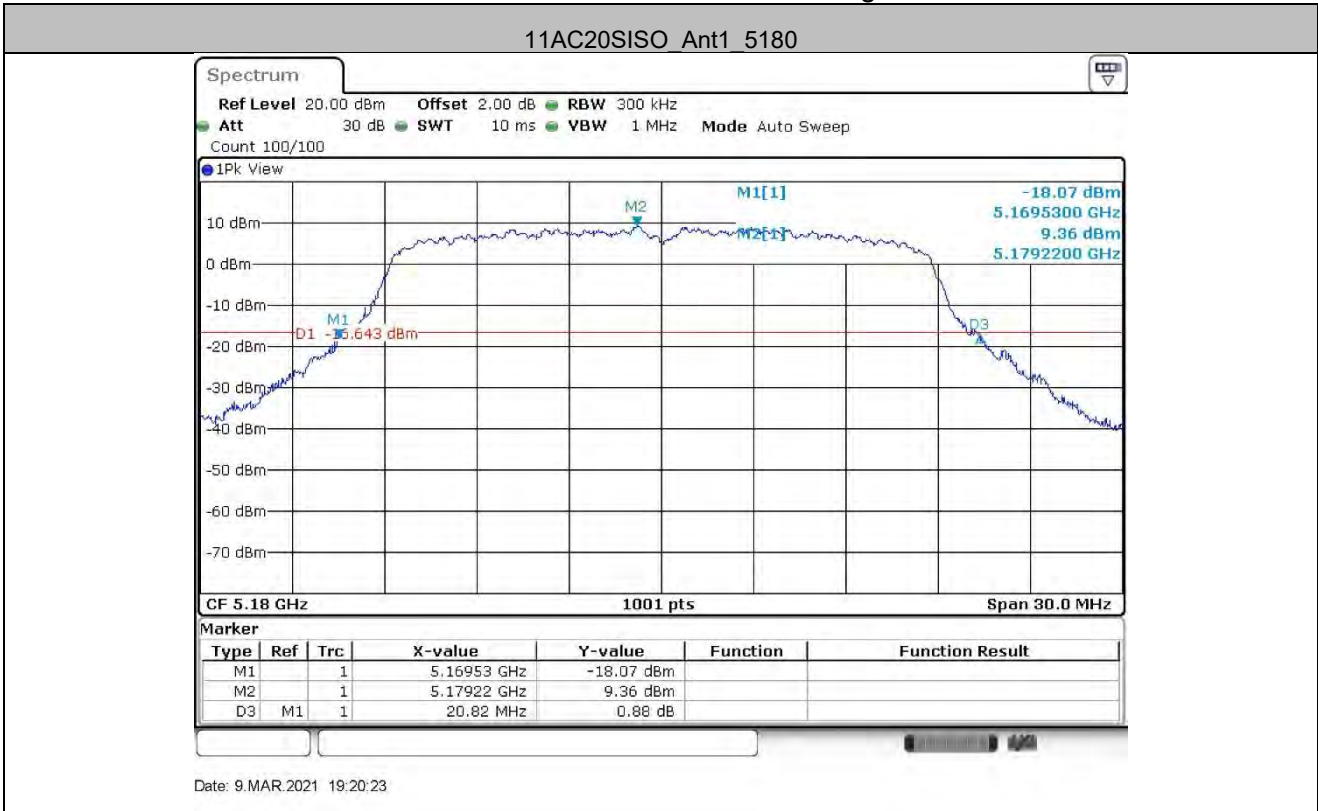


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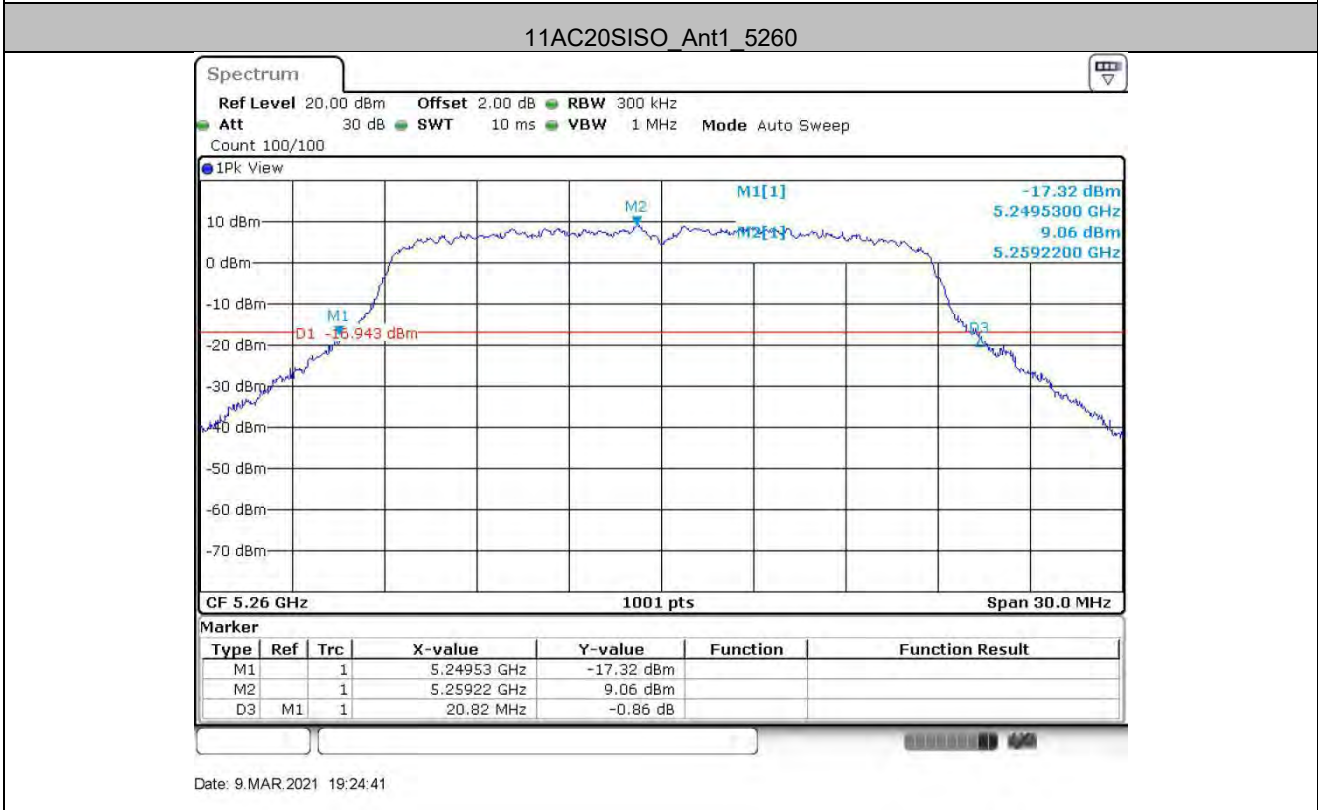
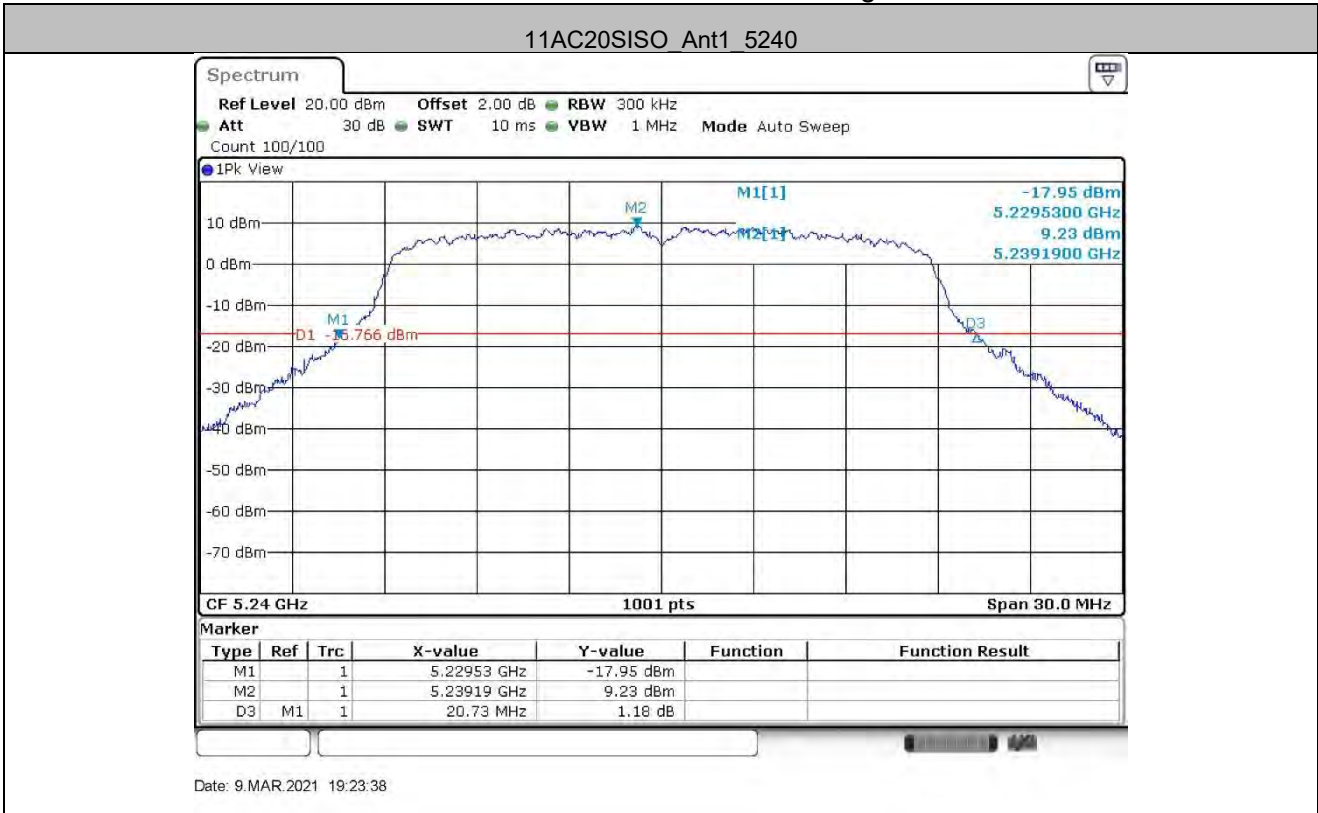
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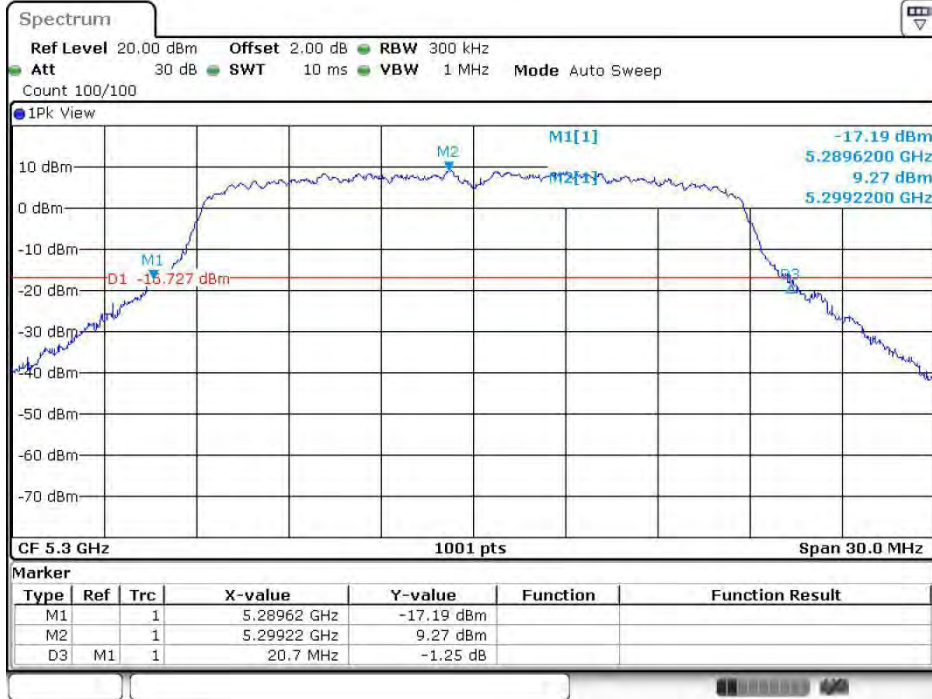
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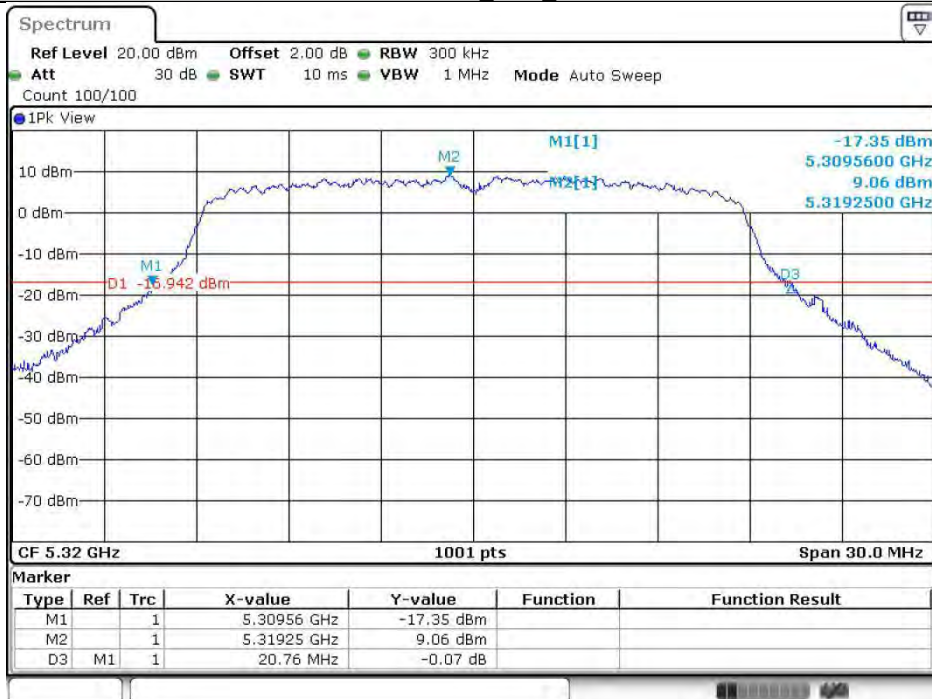
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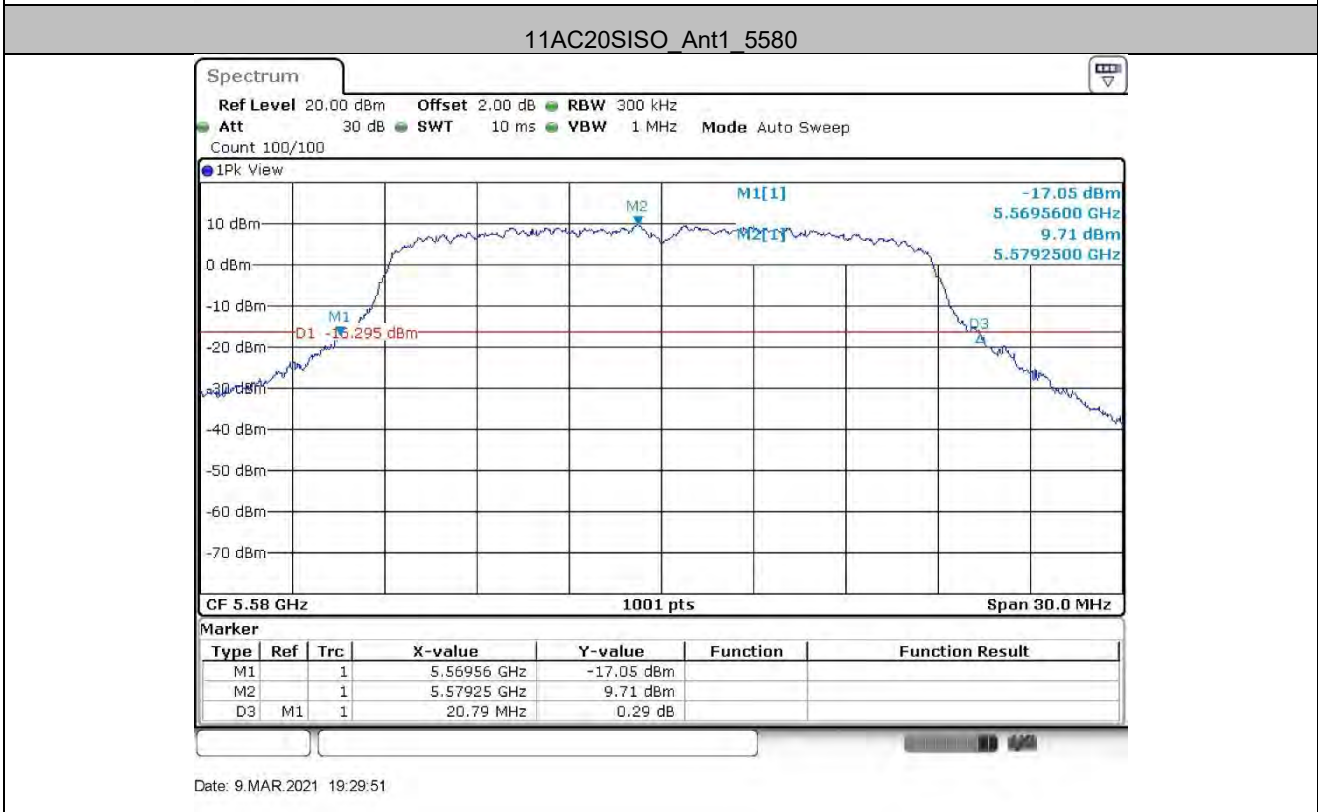
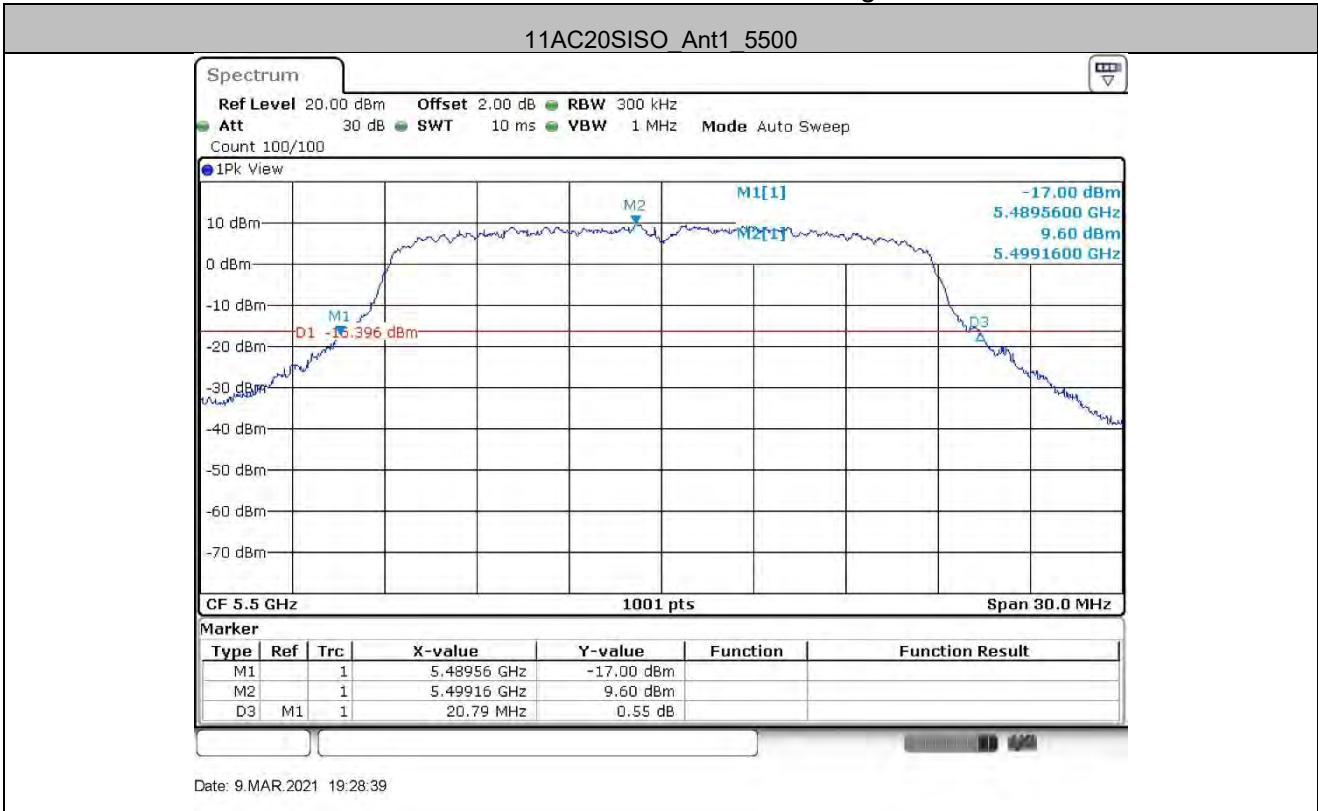


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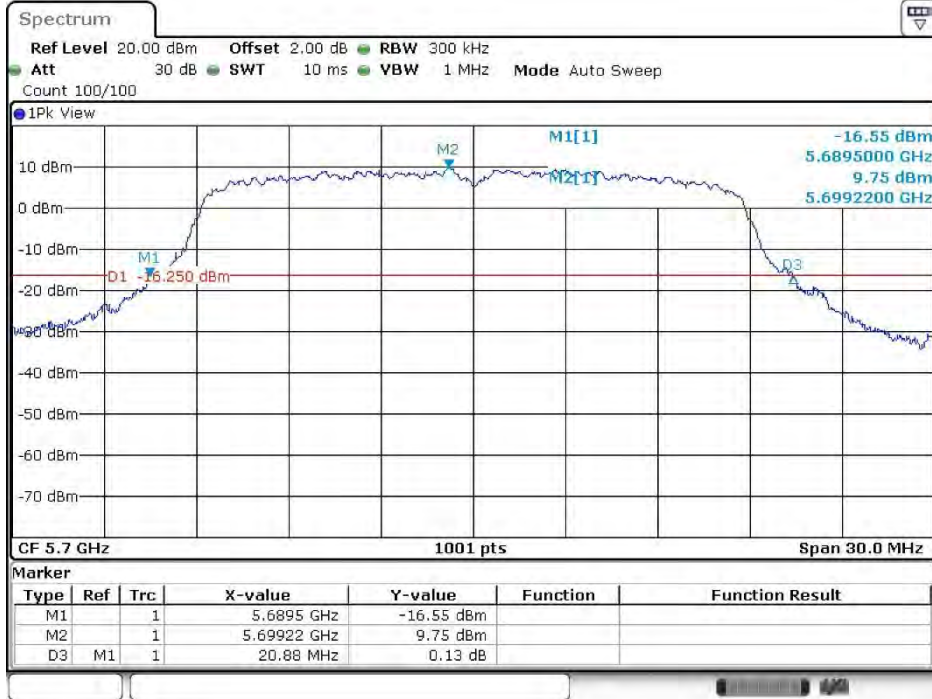
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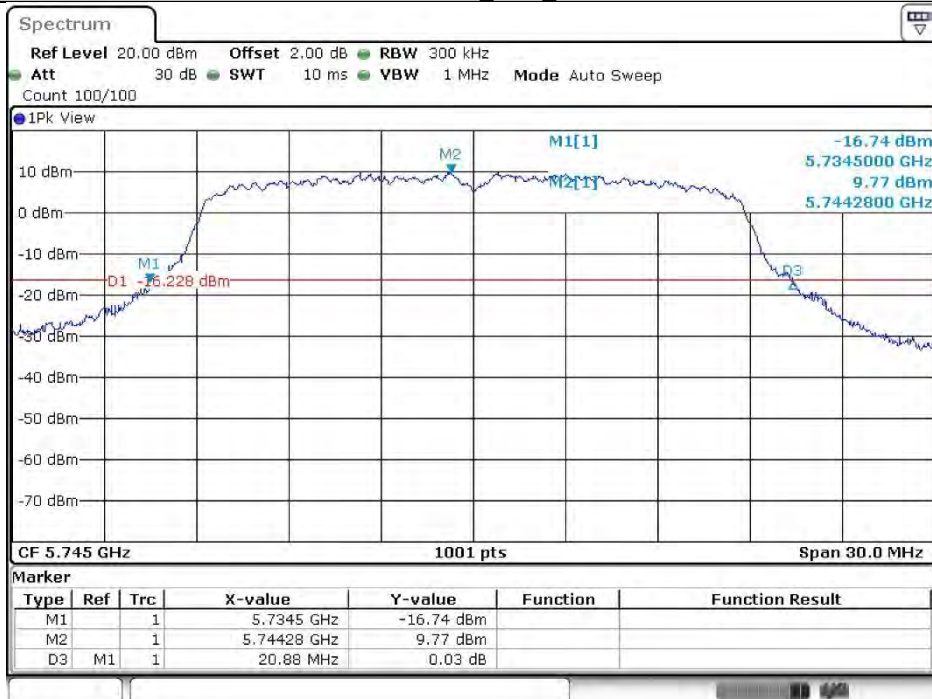
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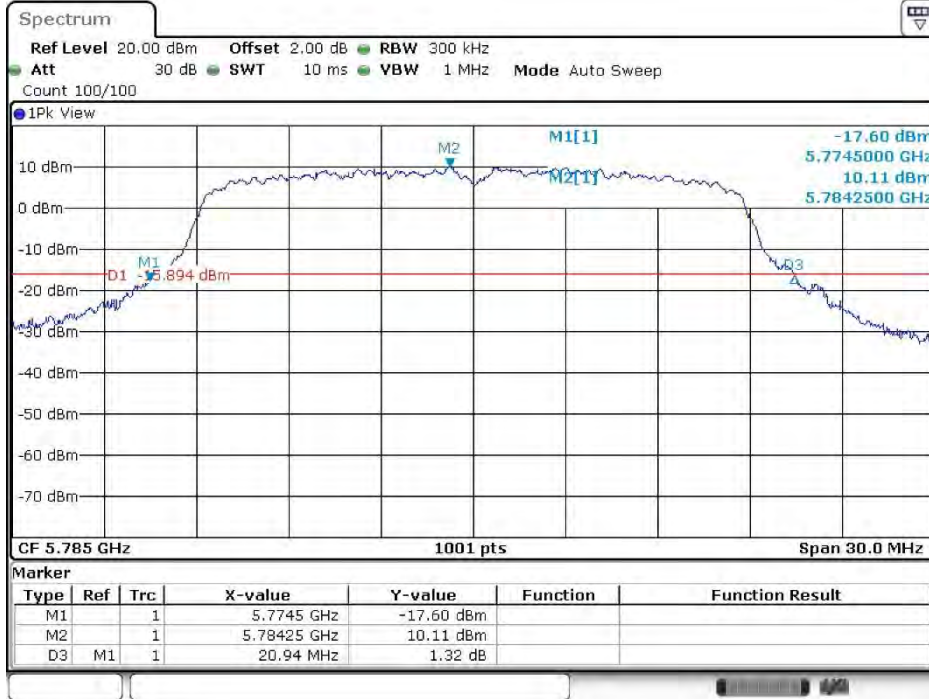


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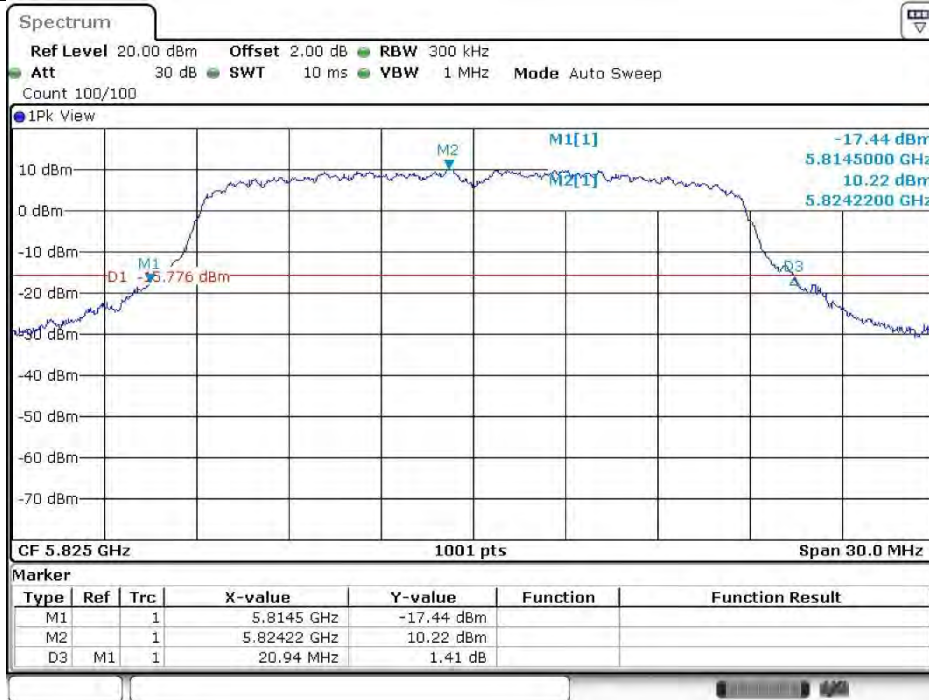
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11AC20SISO Ant1 5825



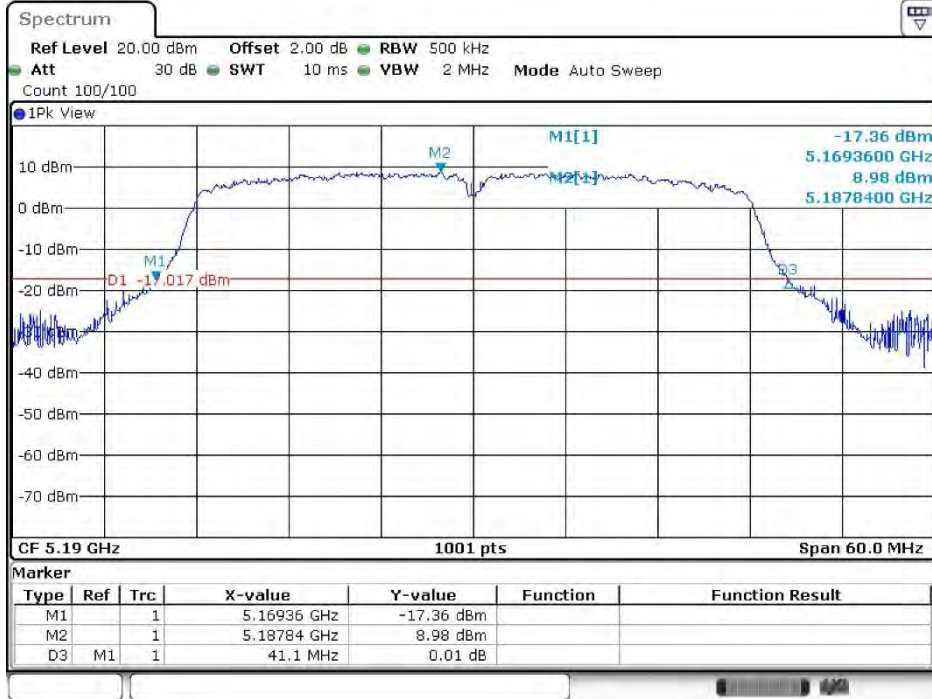
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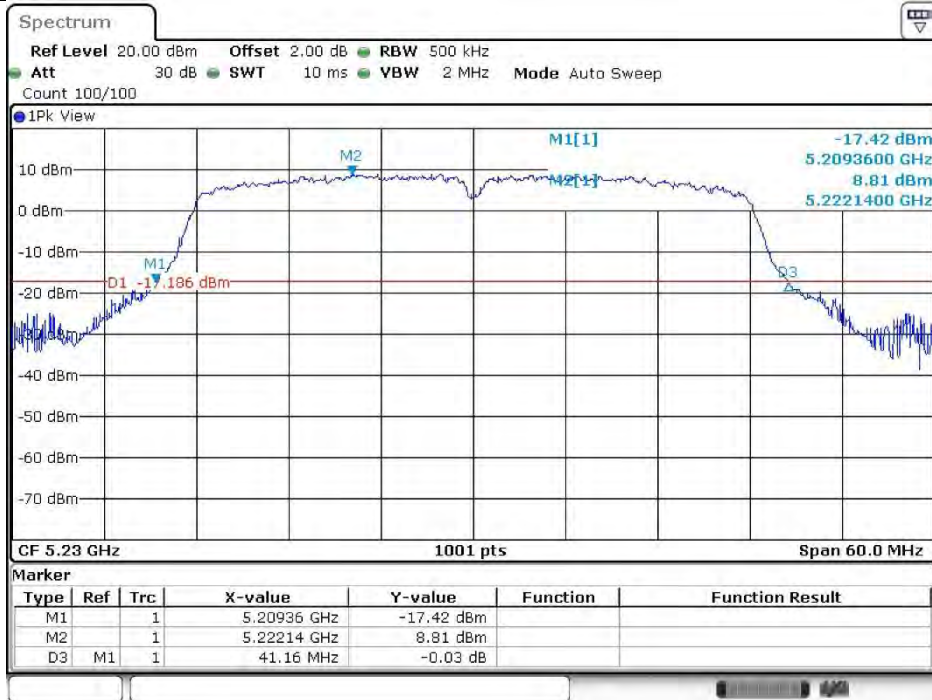
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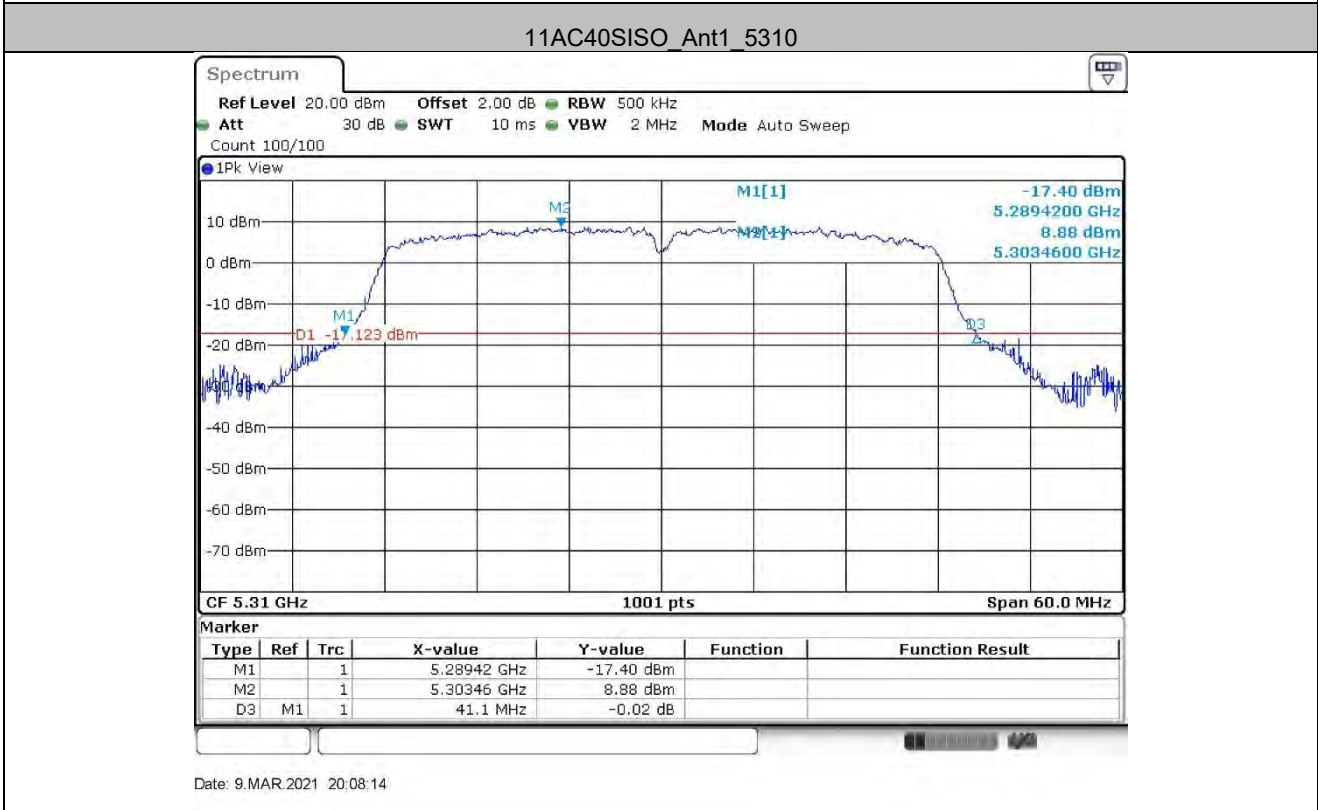
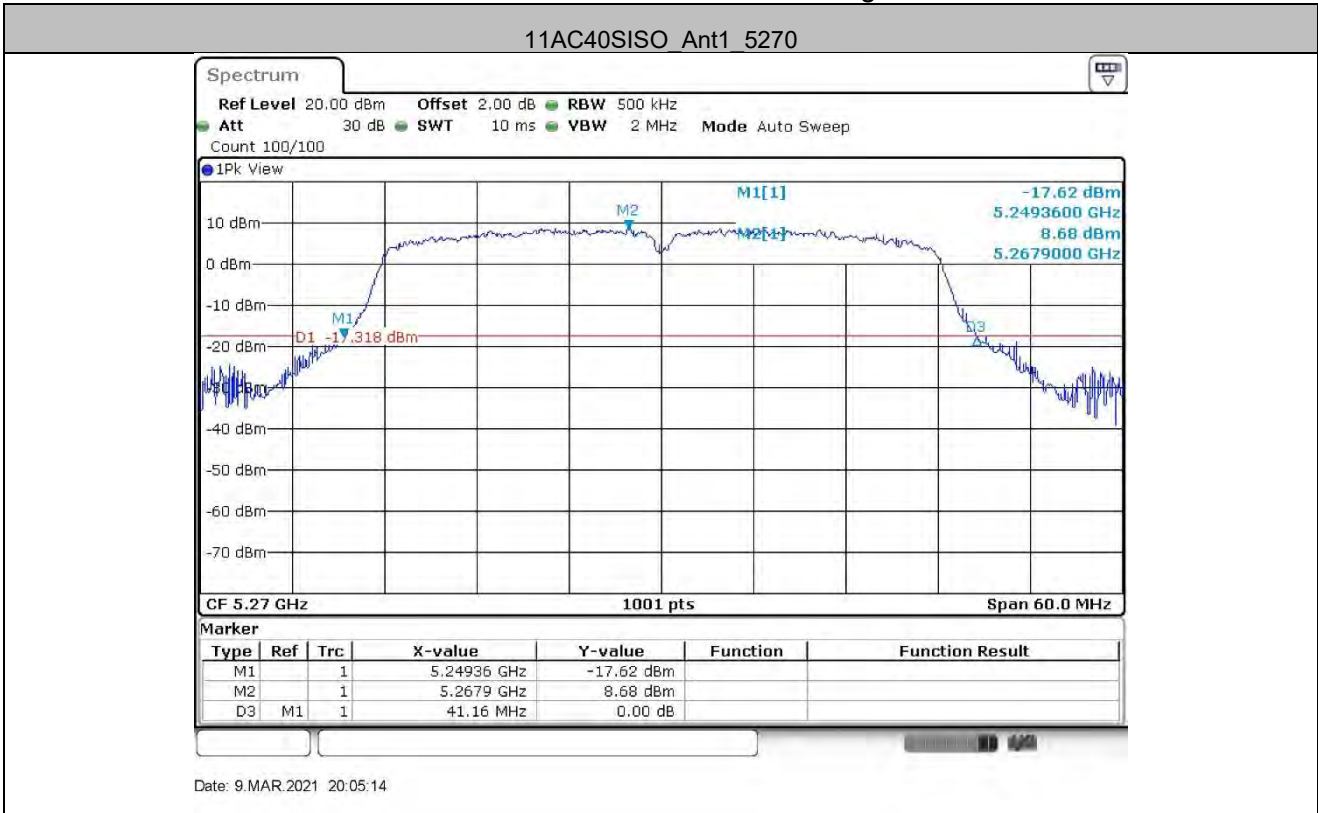
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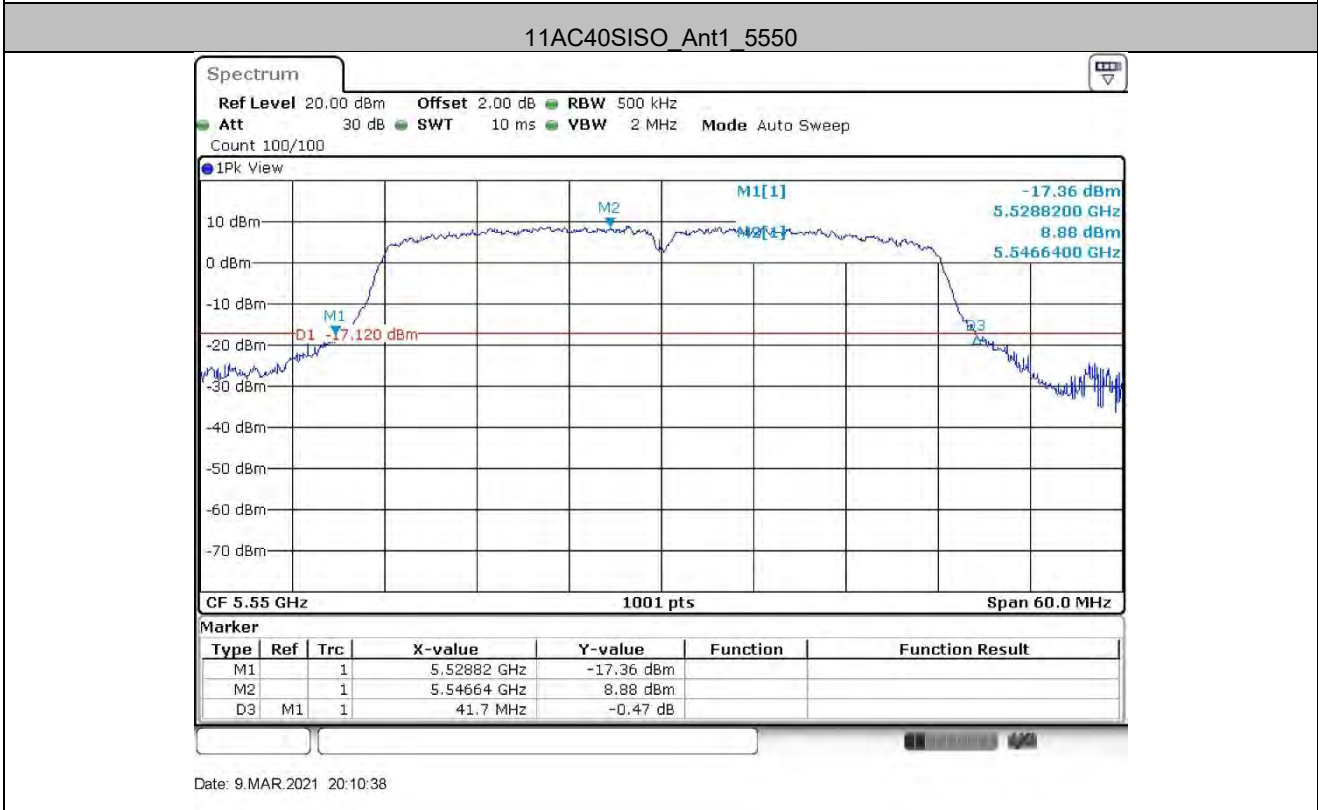
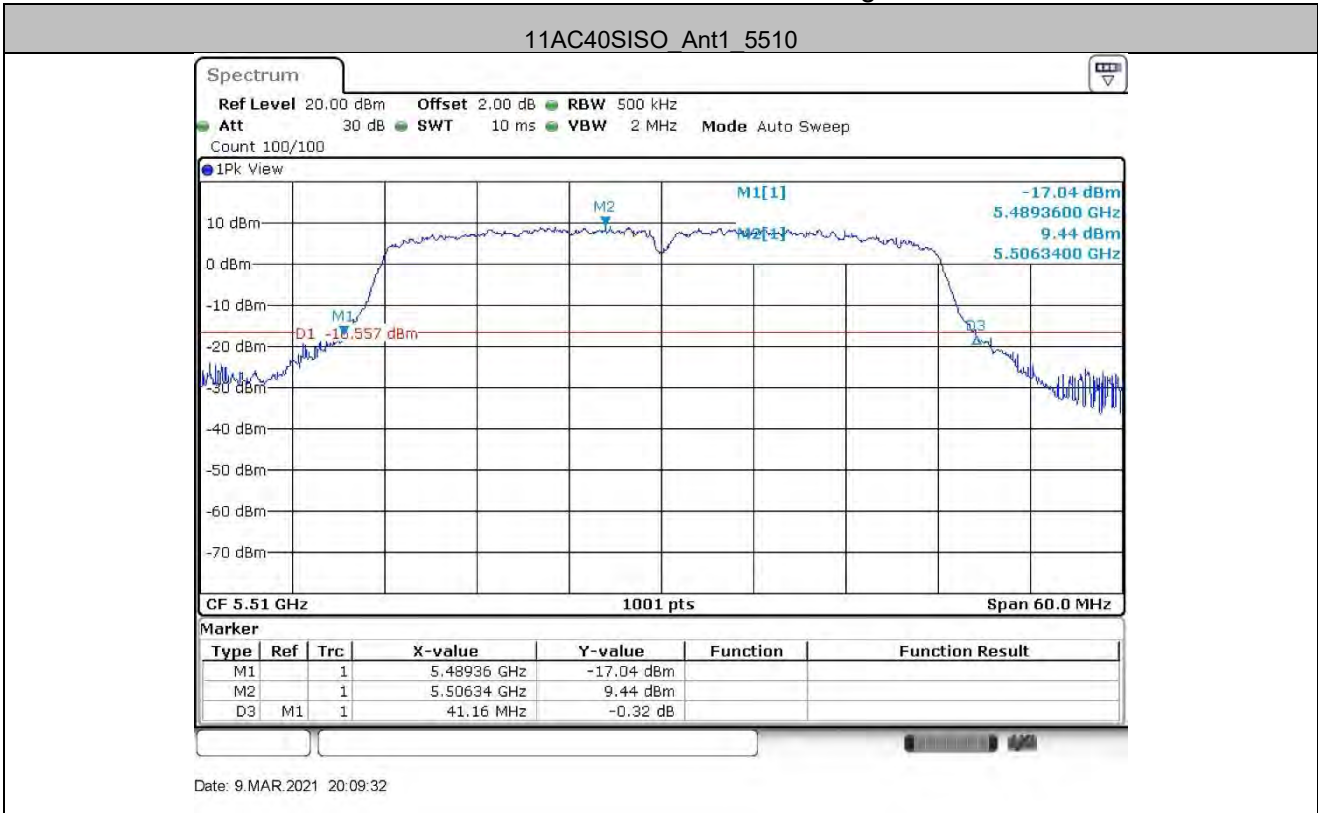
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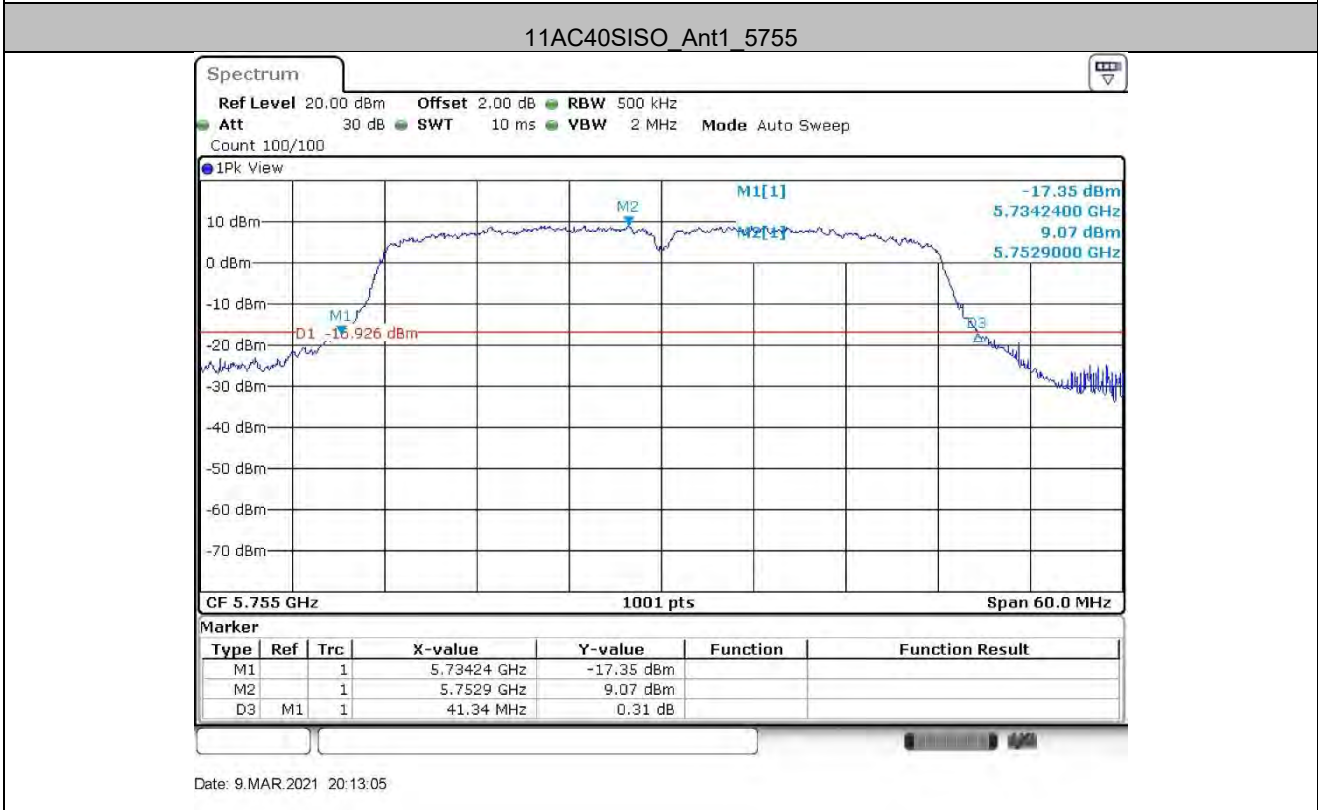
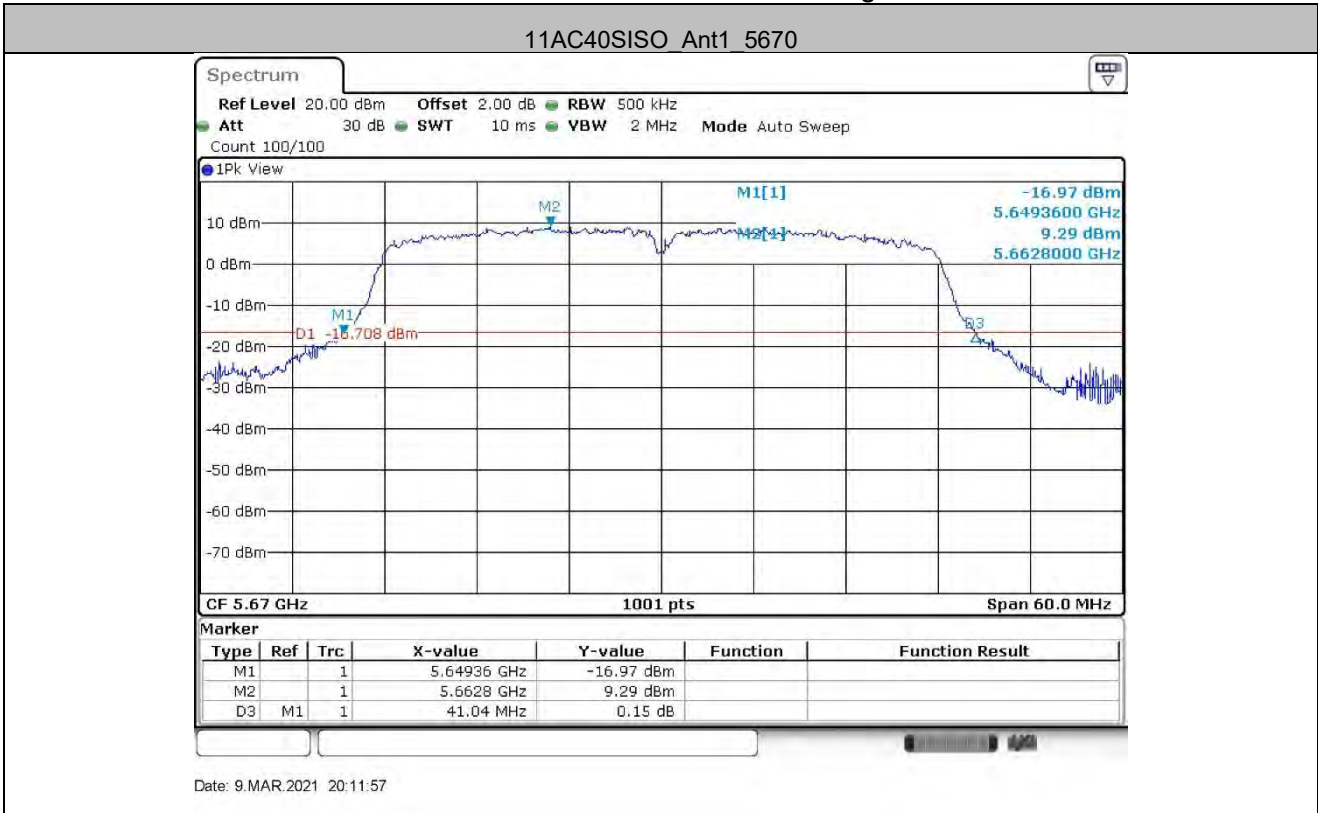


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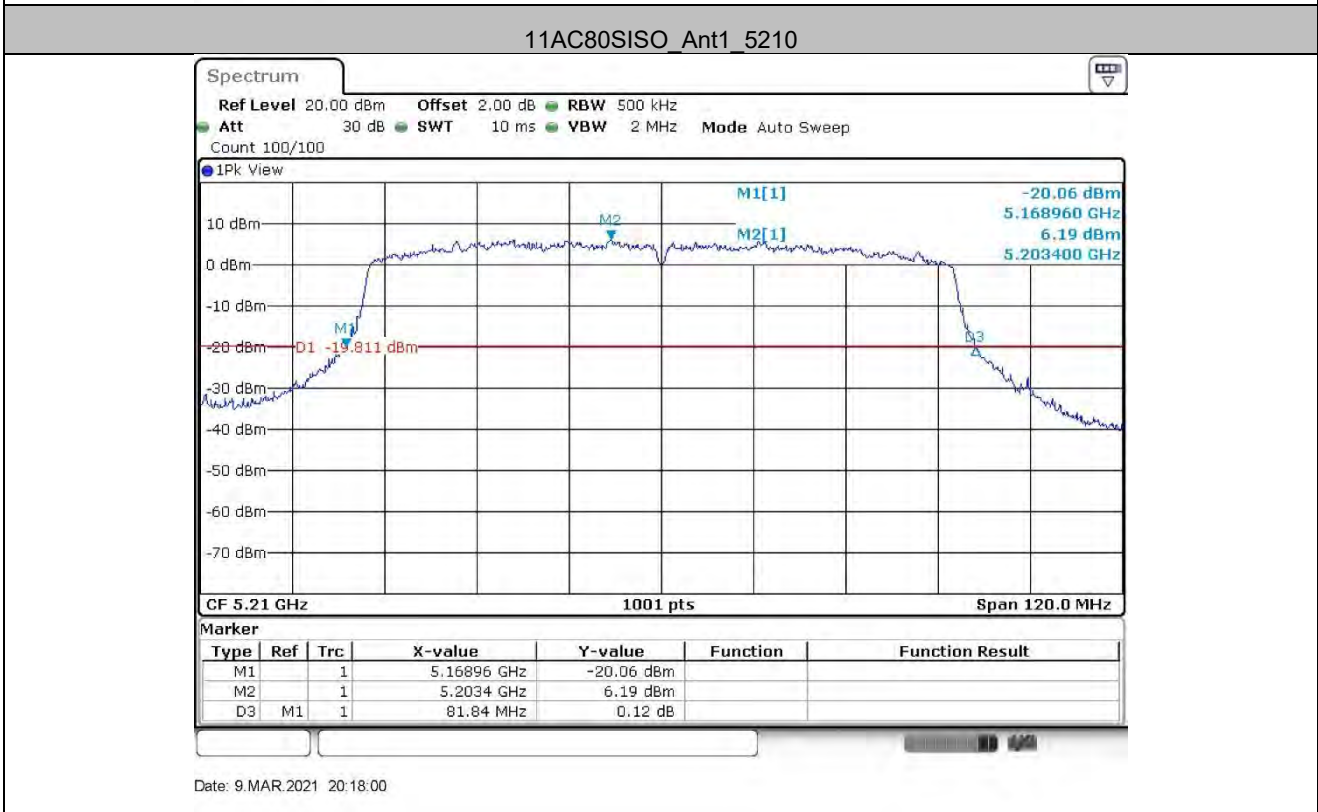
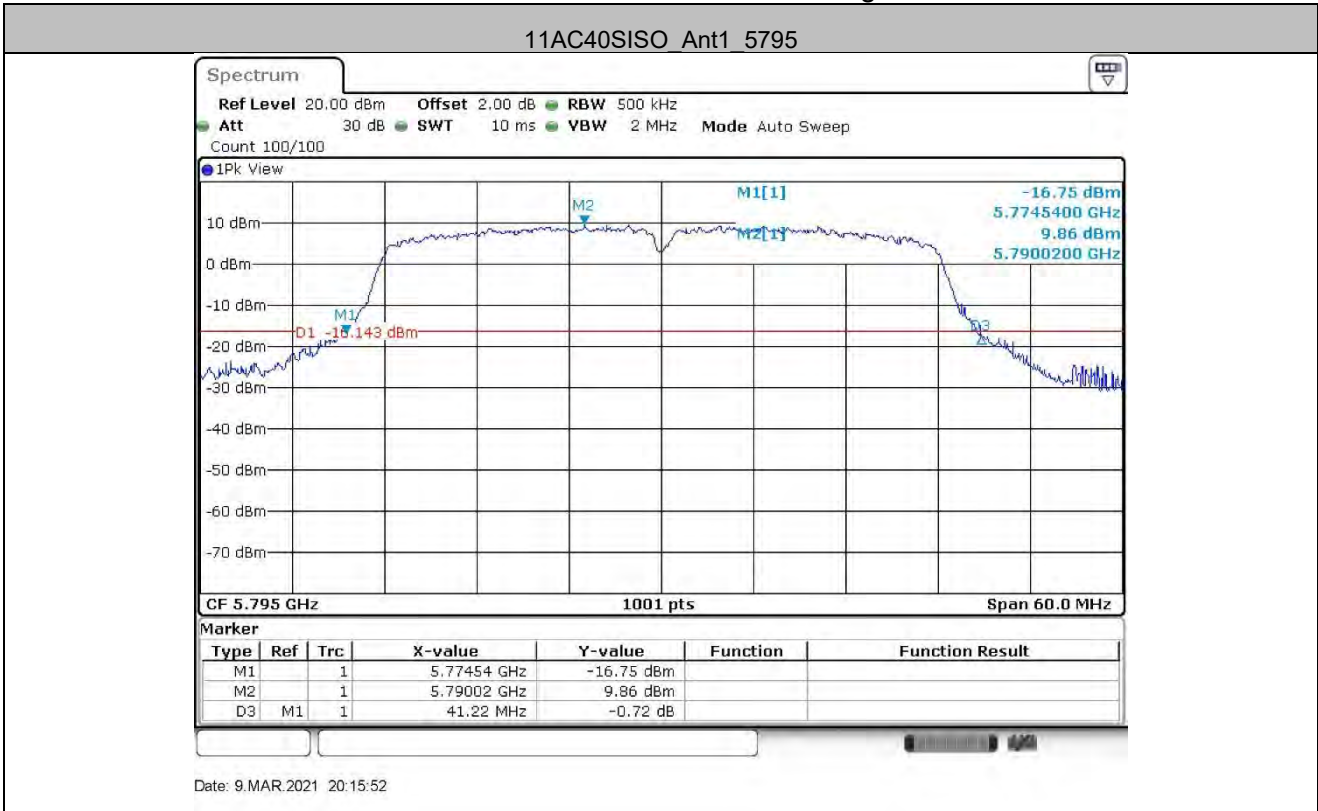


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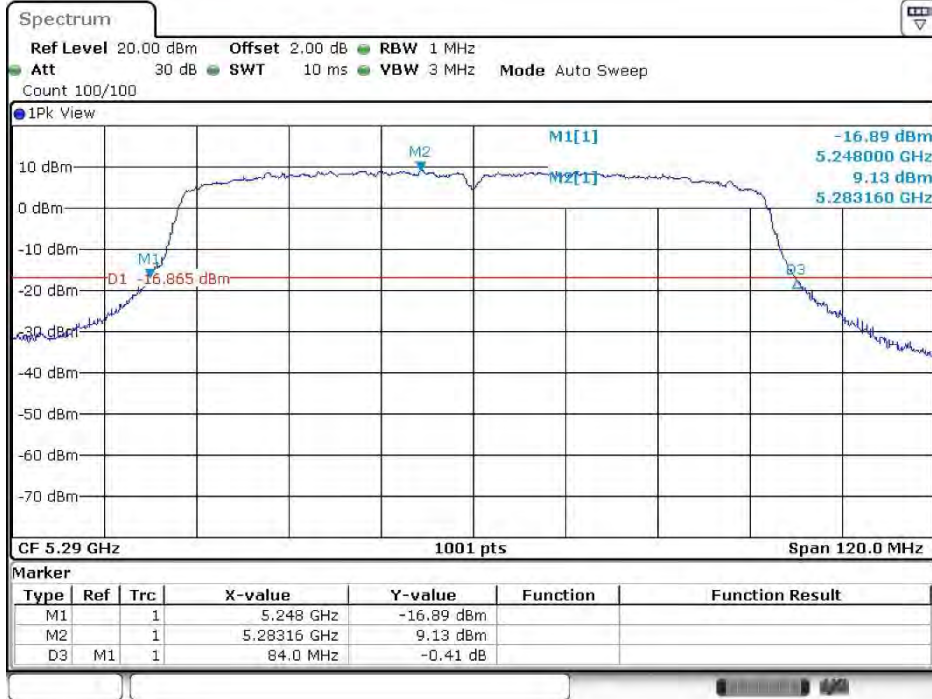


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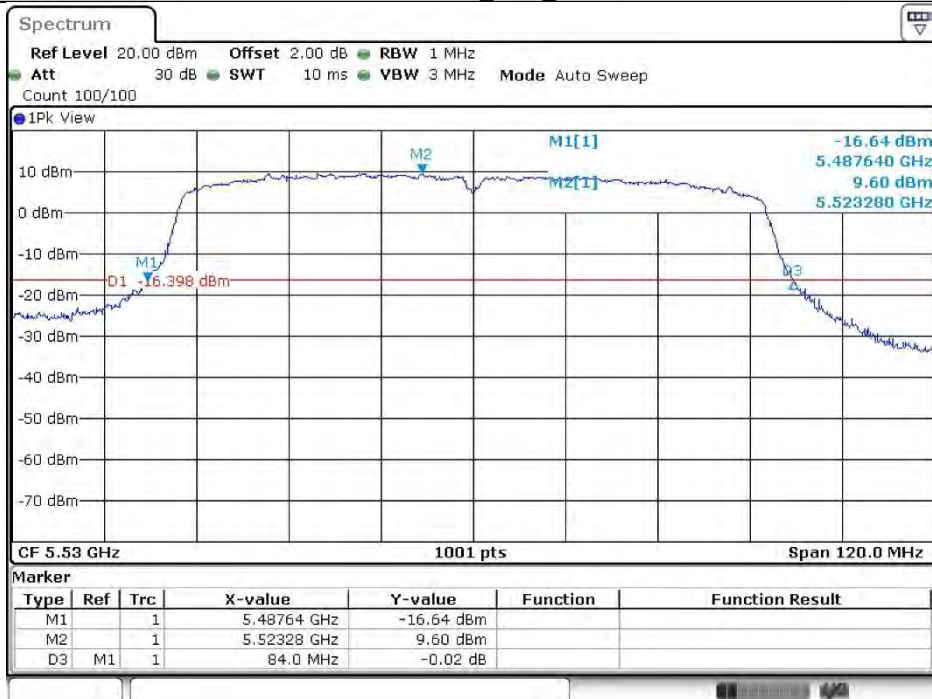
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11AC80SISO Ant1 5290



Date: 9.MAR.2021 20:19:04

11AC80SISO Ant1 5530



Date: 9.MAR.2021 20:20:21



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11AC80SISO Ant1 5610



Date: 9.MAR.2021 20:21:28

11AC80SISO Ant1 5775



Date: 9.MAR.2021 20:23:42



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Occupied channel bandwidth
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.274	5171.848	5188.122	---	PASS
		5200	16.274	5191.848	5208.122	---	PASS
		5240	16.274	5231.848	5248.122	---	PASS
		5260	16.274	5251.848	5268.122	---	PASS
		5300	16.274	5291.848	5308.122	---	PASS
		5320	16.304	5311.848	5328.152	---	PASS
		5500	16.274	5491.848	5508.122	---	PASS
		5580	16.304	5571.818	5588.122	---	PASS
		5700	16.274	5691.848	5708.122	---	PASS
		5745	16.304	5736.818	5753.122	---	PASS
		5785	16.304	5776.848	5793.152	---	PASS
		5825	16.304	5816.848	5833.152	---	PASS
		11N20SISO	Ant1	5180	17.413	5171.279	5188.691
5200	17.383			5191.309	5208.691	---	PASS
5240	17.413			5231.279	5248.691	---	PASS
5260	17.413			5251.279	5268.691	---	PASS
5300	17.383			5291.309	5308.691	---	PASS
5320	17.383			5311.309	5328.691	---	PASS
5500	17.413			5491.279	5508.691	---	PASS
5580	17.413			5571.279	5588.691	---	PASS
5700	17.413			5691.279	5708.691	---	PASS
5745	17.413			5736.279	5753.691	---	PASS
5785	17.413			5776.279	5793.691	---	PASS
5825	17.413			5816.279	5833.691	---	PASS
11N40SISO	Ant1			5190	35.904	5172.018	5207.922
		5230	35.904	5212.018	5247.922	---	PASS
		5270	35.904	5252.018	5287.922	---	PASS
		5310	35.844	5292.078	5327.922	---	PASS



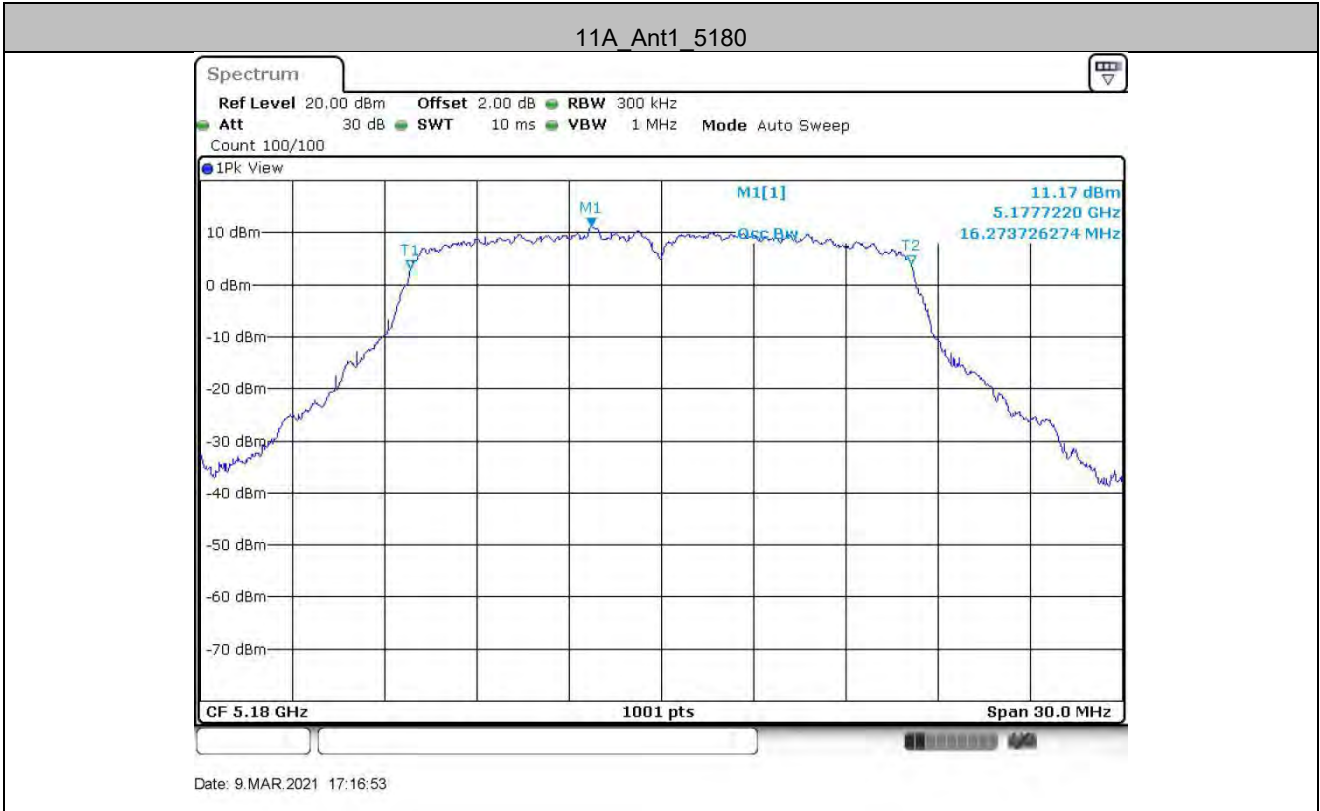
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		5510	35.904	5492.018	5527.922	---	PASS
		5550	35.904	5532.018	5567.922	---	PASS
		5670	35.964	5651.958	5687.922	---	PASS
		5755	35.904	5737.018	5772.922	---	PASS
		5795	35.964	5777.018	5812.982	---	PASS
11AC20SISO	Ant1	5180	17.413	5171.279	5188.691	---	PASS
		5200	17.413	5191.279	5208.691	---	PASS
		5240	17.413	5231.279	5248.691	---	PASS
		5260	17.413	5251.279	5268.691	---	PASS
		5300	17.383	5291.309	5308.691	---	PASS
		5320	17.383	5311.309	5328.691	---	PASS
		5500	17.413	5491.279	5508.691	---	PASS
		5580	17.413	5571.279	5588.691	---	PASS
		5700	17.413	5691.279	5708.691	---	PASS
		5745	17.413	5736.279	5753.691	---	PASS
		5785	17.413	5776.279	5793.691	---	PASS
		5825	17.413	5816.279	5833.691	---	PASS
11AC40SISO	Ant1	5190	35.904	5172.018	5207.922	---	PASS
		5230	35.844	5212.078	5247.922	---	PASS
		5270	35.904	5252.018	5287.922	---	PASS
		5310	36.024	5292.078	5328.102	---	PASS
		5510	35.844	5492.018	5527.862	---	PASS
		5550	35.844	5532.018	5567.862	---	PASS
		5670	35.844	5652.018	5687.862	---	PASS
		5755	35.904	5737.018	5772.922	---	PASS
		5795	35.844	5777.078	5812.922	---	PASS
11AC80SISO	Ant1	5210	74.805	5172.478	5247.283	---	PASS
		5290	74.925	5252.478	5327.403	---	PASS
		5530	74.925	5492.358	5567.283	---	PASS
		5610	74.925	5572.358	5647.283	---	PASS
		5775	74.925	5737.478	5812.403	---	PASS



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Test Graphs



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11A Ant1 5200



Date: 9.MAR.2021 17:18:31

11A Ant1 5240



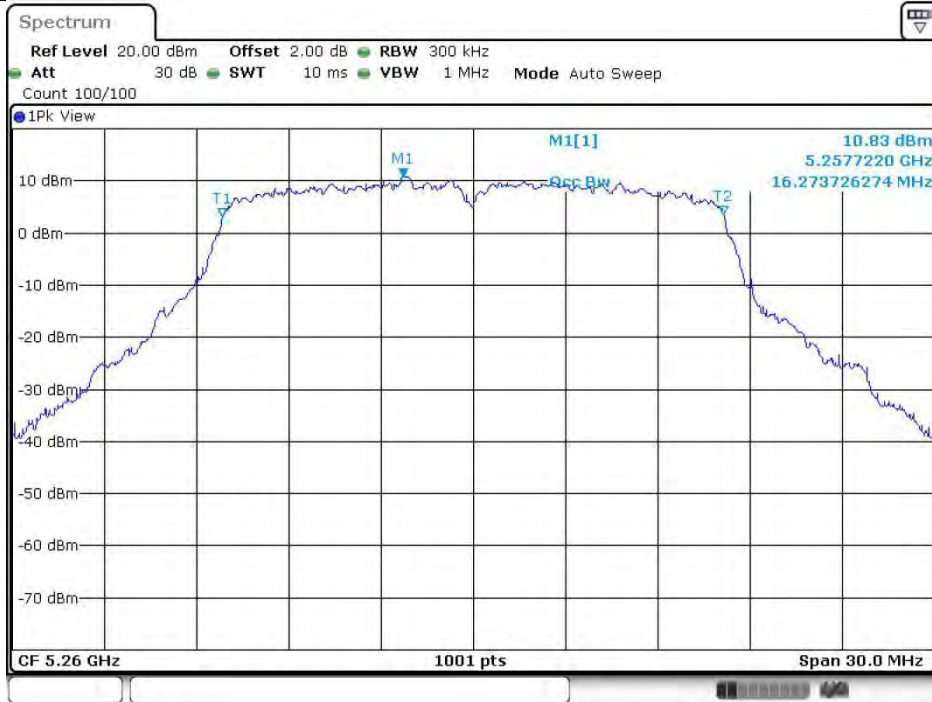
Date: 9.MAR.2021 17:19:46



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11A Ant1 5260



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11A Ant1 5300

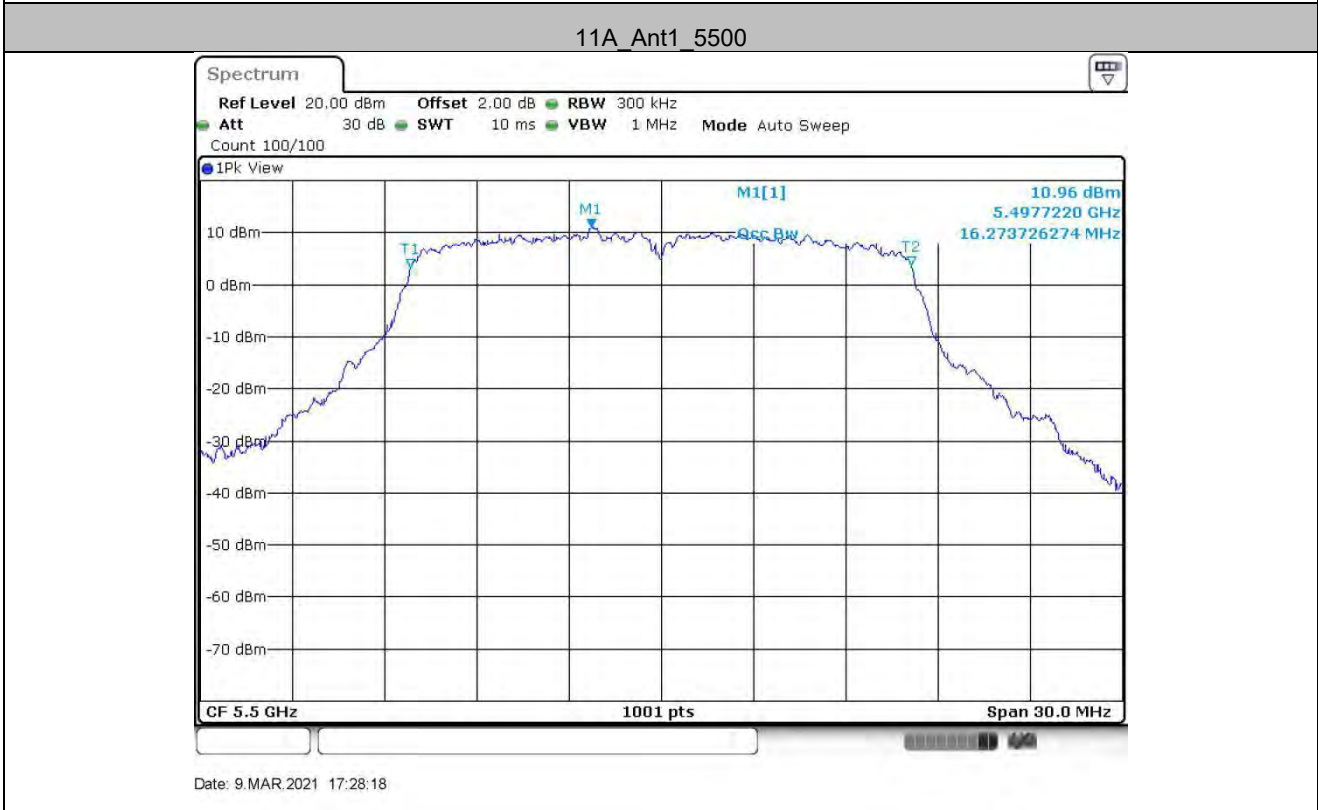
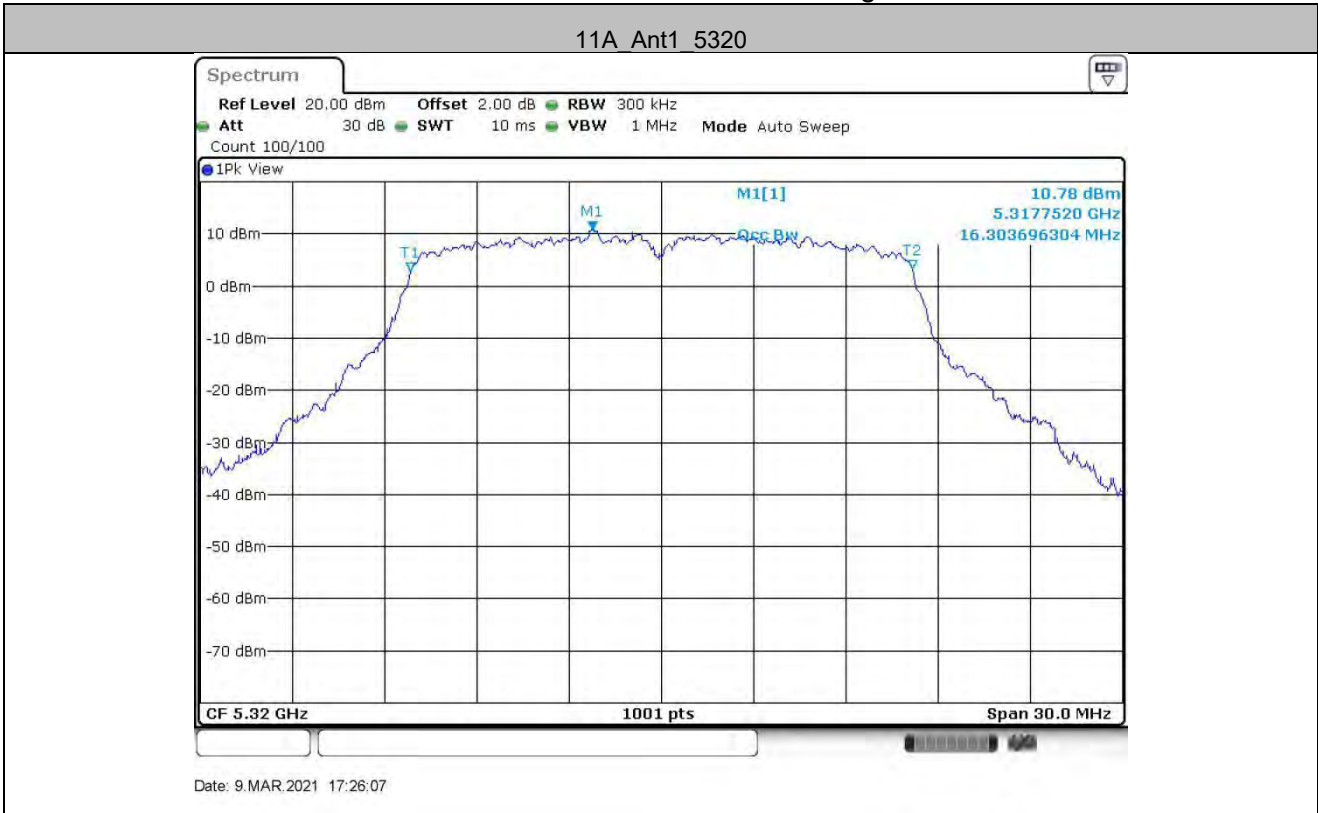


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11A Ant1 5580



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11A Ant1 5700



Date: 9.MAR.2021 17:31:49



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11A Ant1 5745



Date: 9.MAR.2021 17:40:40

11A Ant1 5785

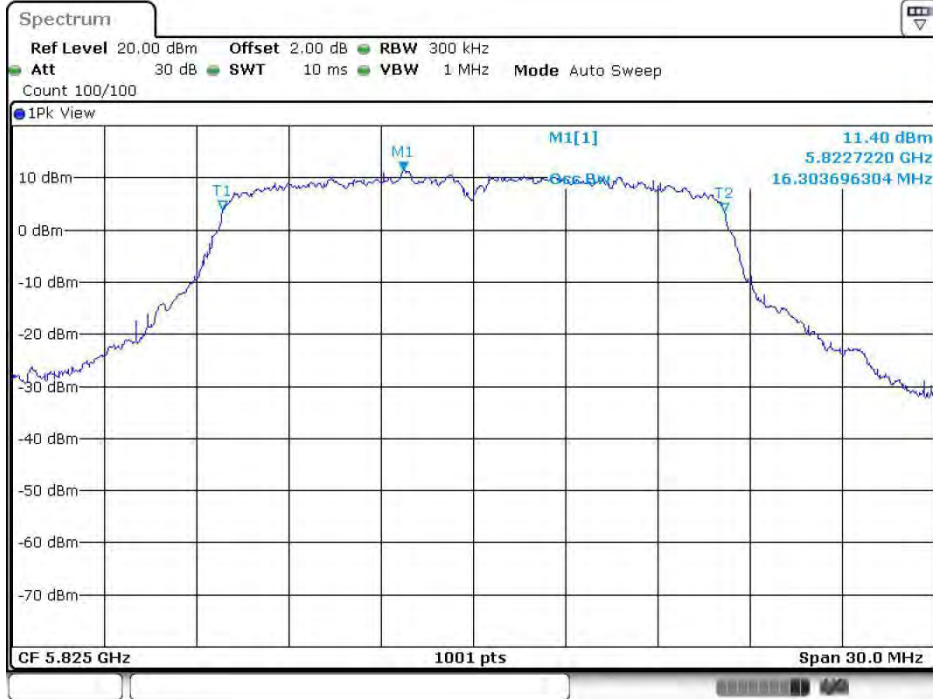


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11A Ant1 5825



Date: 9.MAR.2021 17:43:58

11N20SISO_Ant1_5180

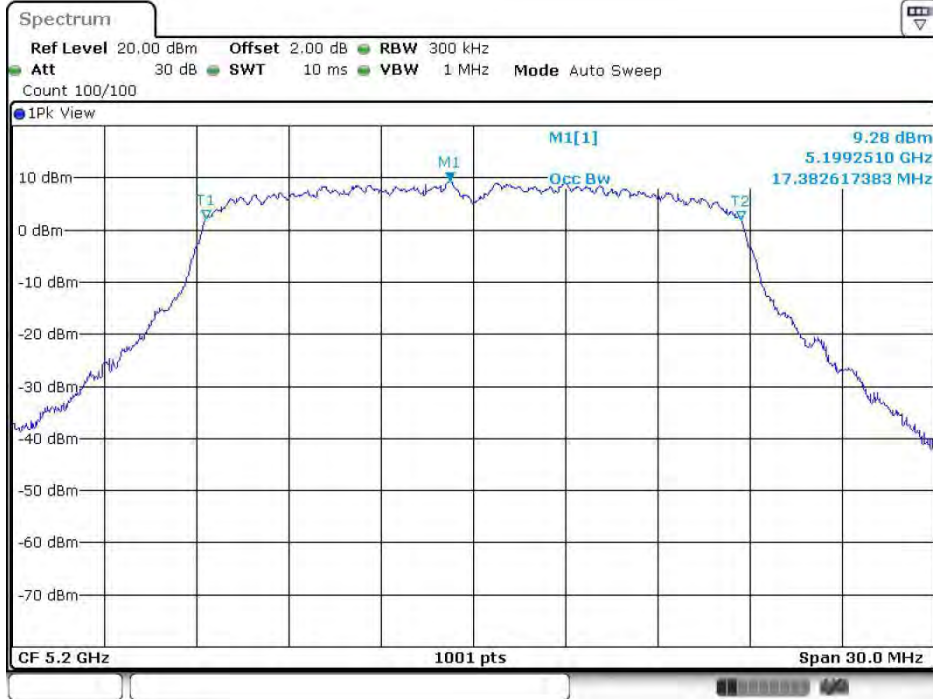


Date: 9.MAR.2021 18:54:05



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11N20SISO_Ant1_5240



Date: 9.MAR.2021 18:58:33

11N20SISO_Ant1_5240



Date: 9.MAR.2021 19:00:25



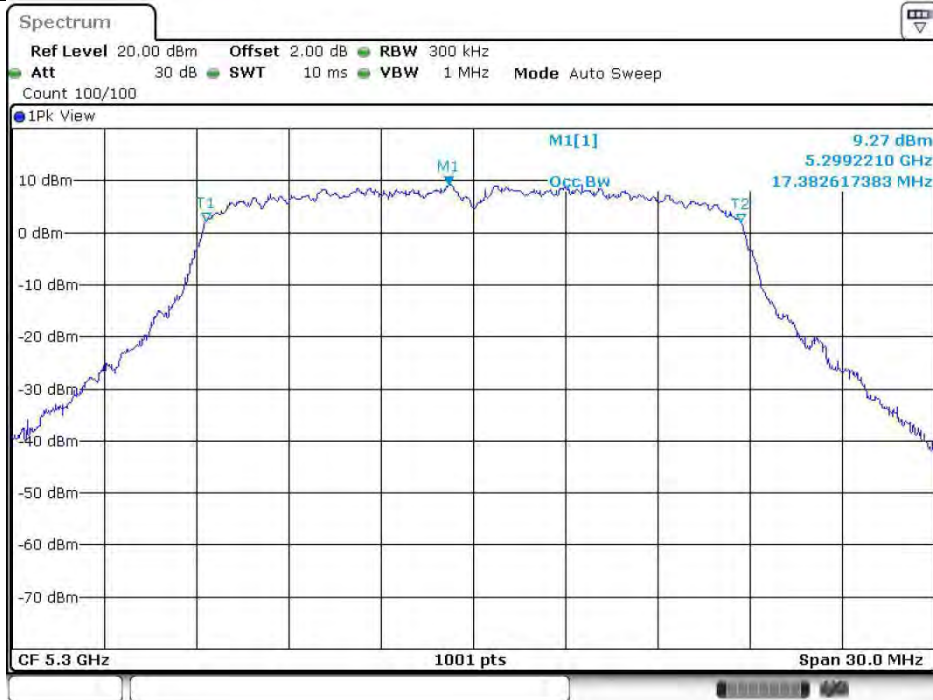
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11N20SISO_Ant1_5260



Date: 9.MAR.2021 19:01:55

11N20SISO_Ant1_5300

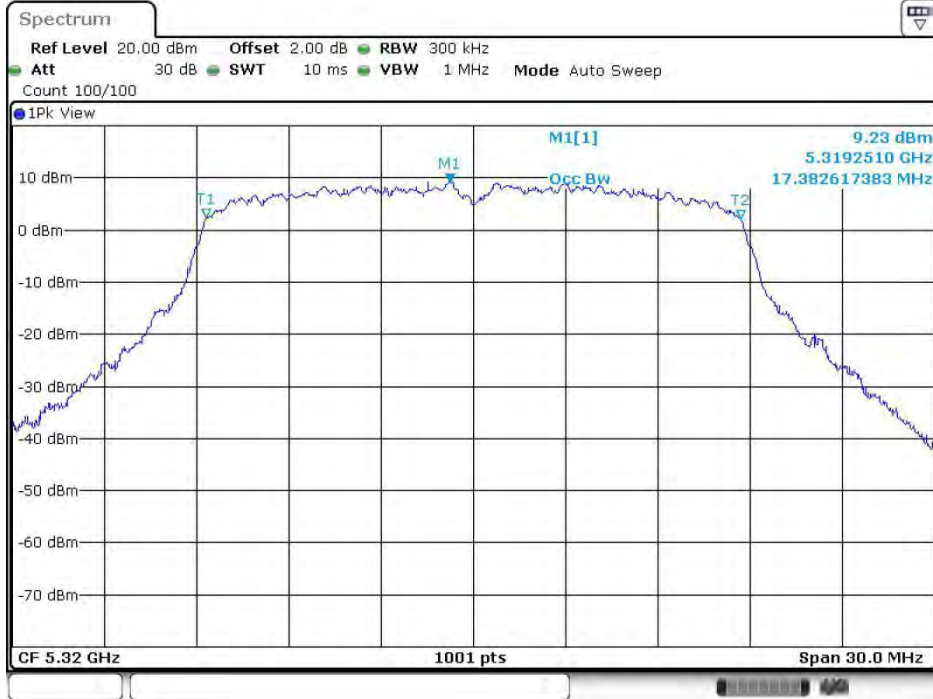


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11N20SISO_Ant1_5320



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11N20SISO_Ant1_5500



Date: 9.MAR.2021 19:06:44



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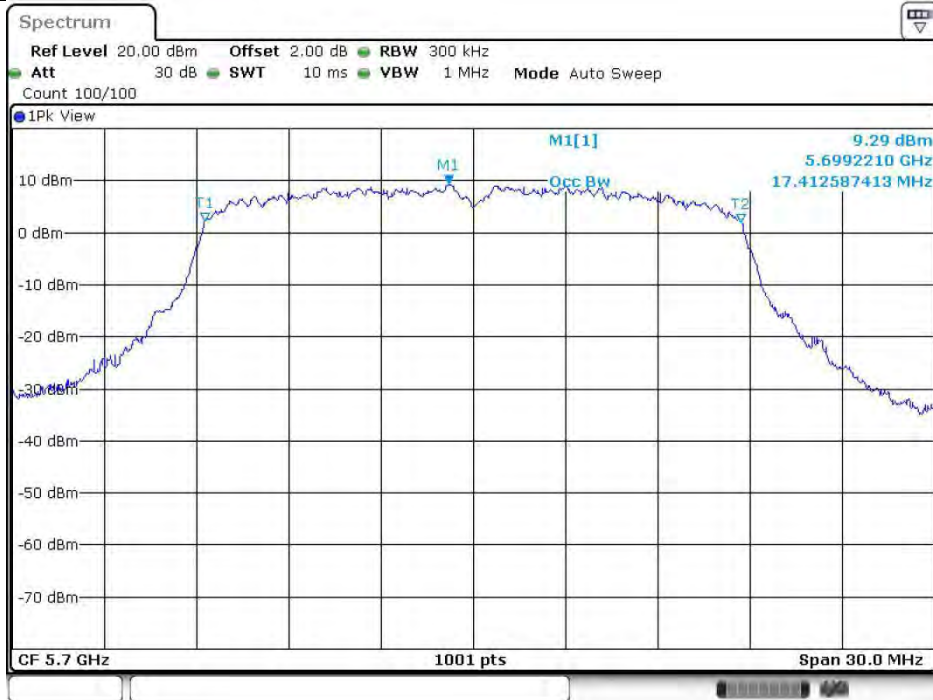
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11N20SISO_Ant1_5580



Date: 9.MAR.2021 19:09:56

11N20SISO_Ant1_5700



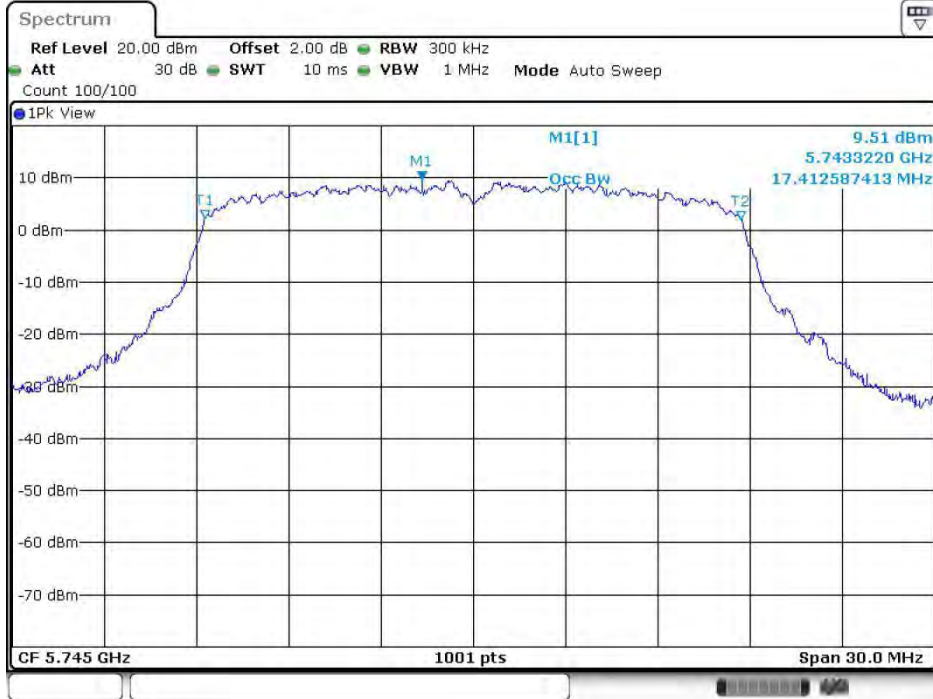
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11N20SISO_Ant1_5745



Date: 9.MAR.2021 19:13:54

11N20SISO_Ant1_5785



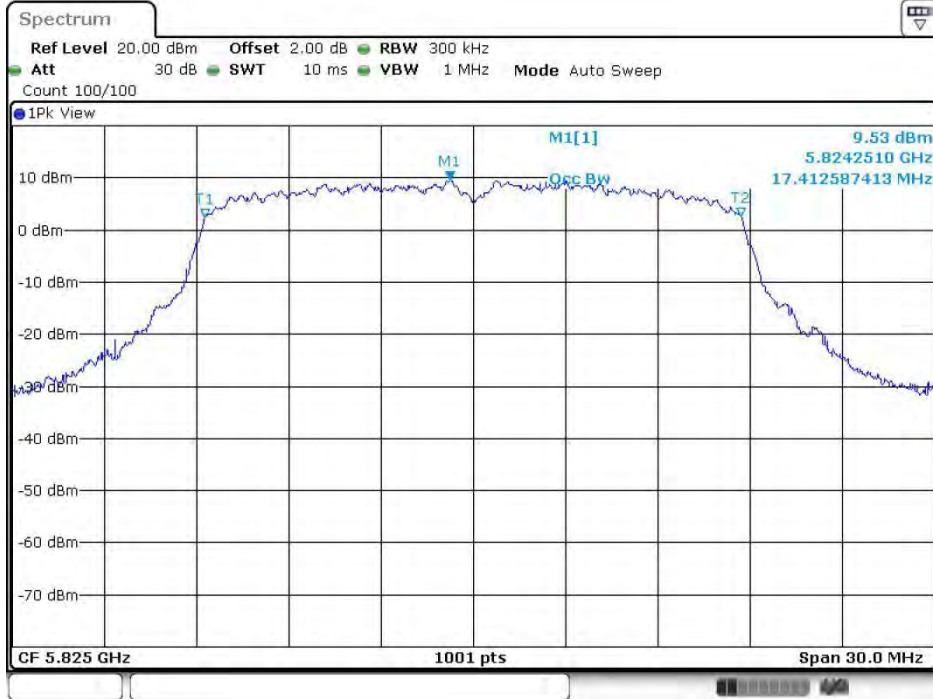
Date: 9.MAR.2021 19:16:13



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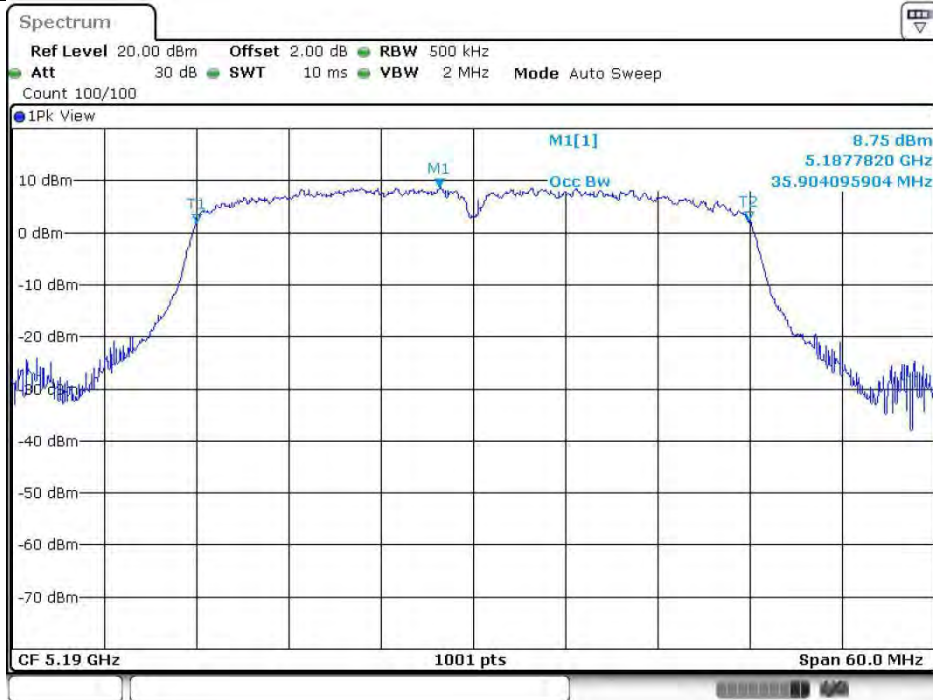
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11N20SISO Ant1_5825



Date: 9.MAR.2021 19:17:35

11N40SISO Ant1_5190

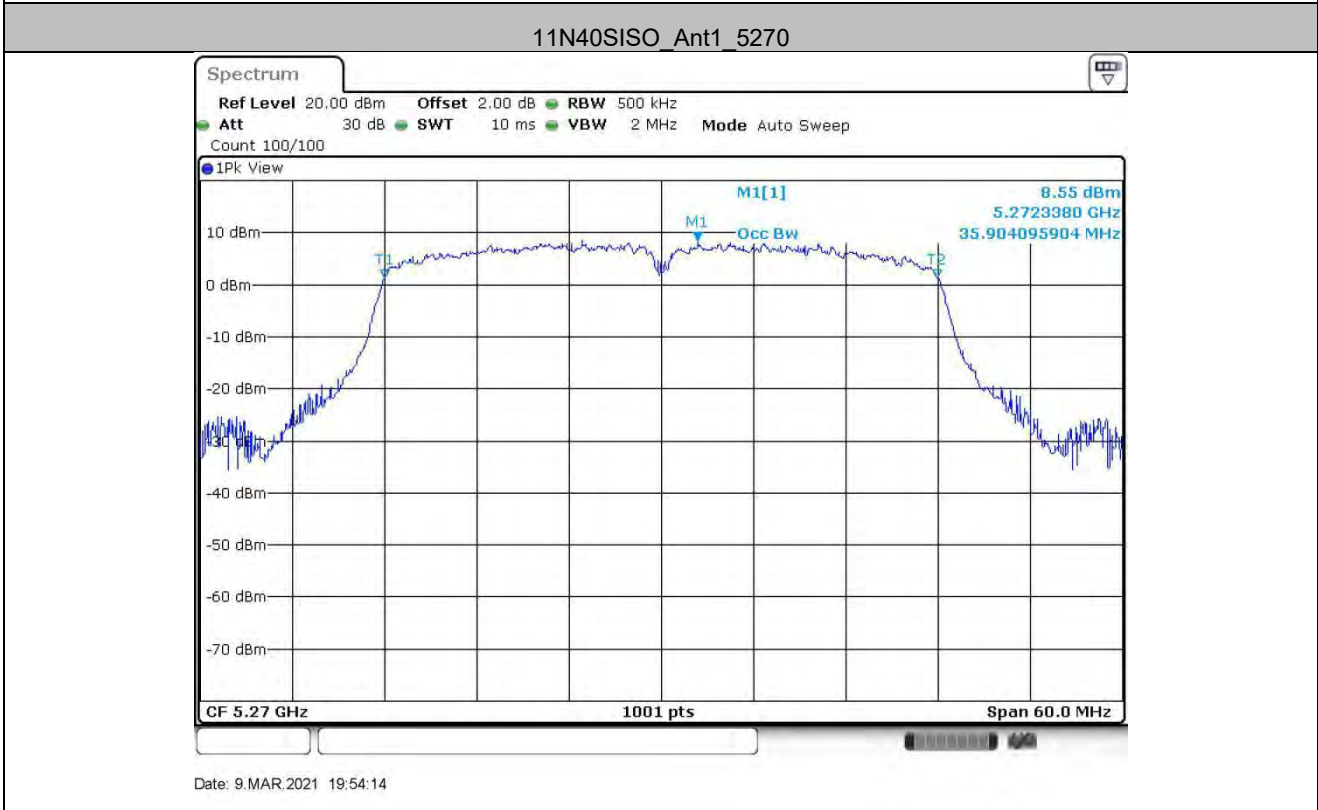
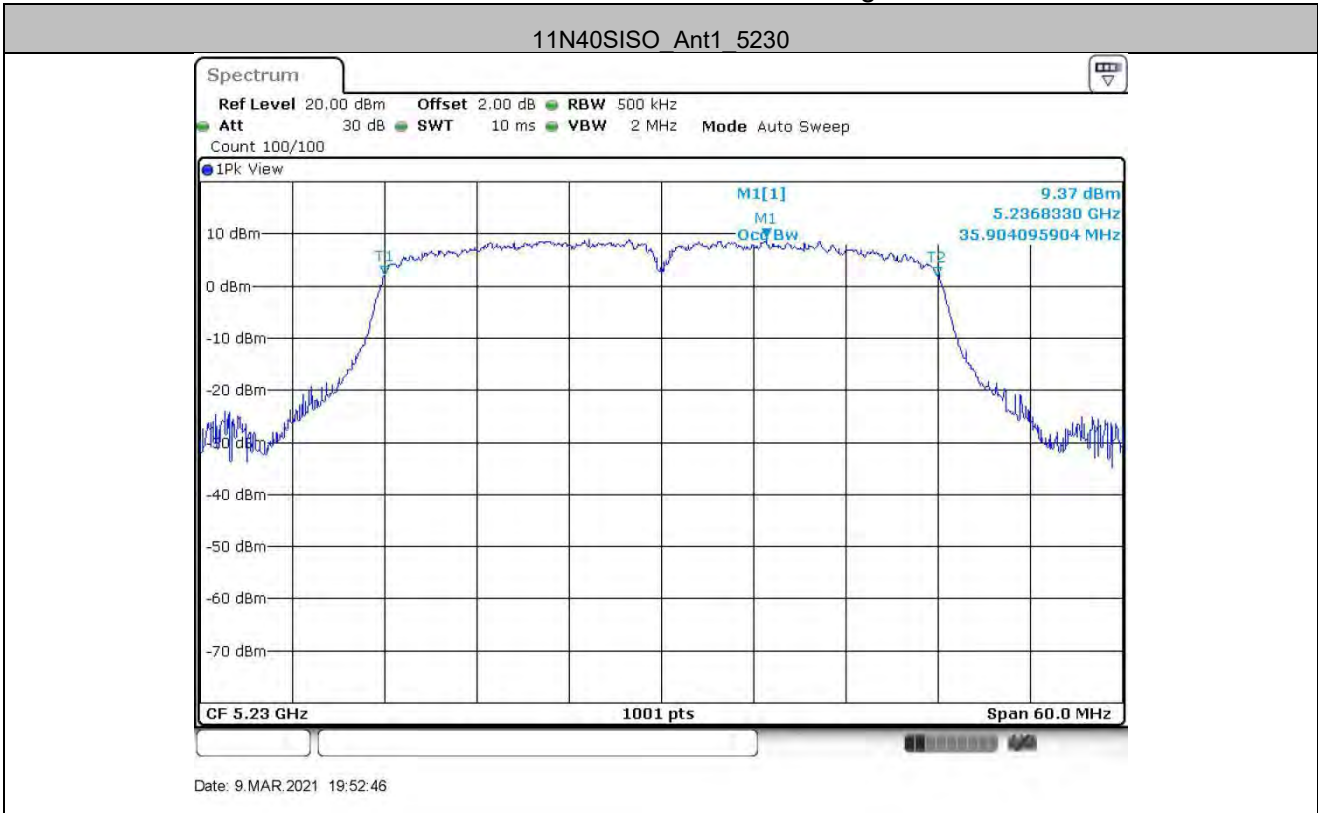


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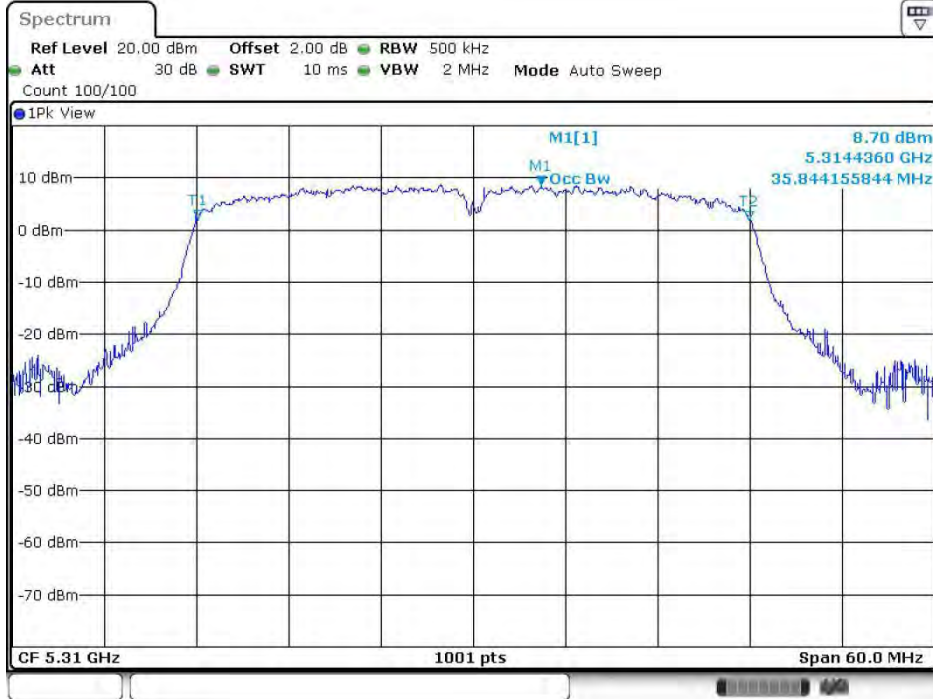
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11N40SISO_Ant1_5310



Date: 9.MAR.2021 19:55:36

11N40SISO_Ant1_5510



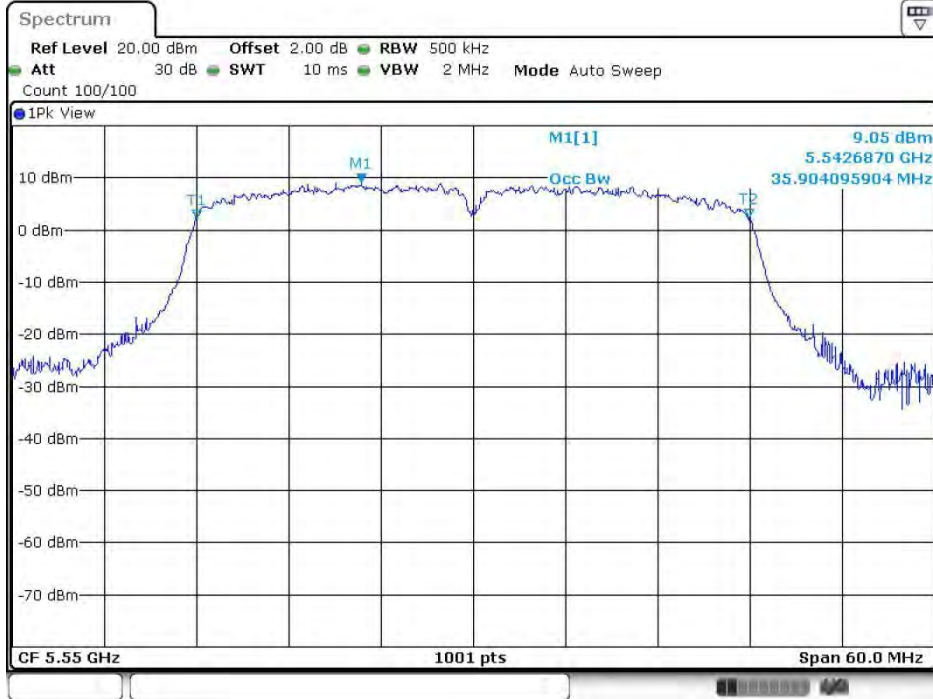
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11N40SISO_Ant1_5550



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