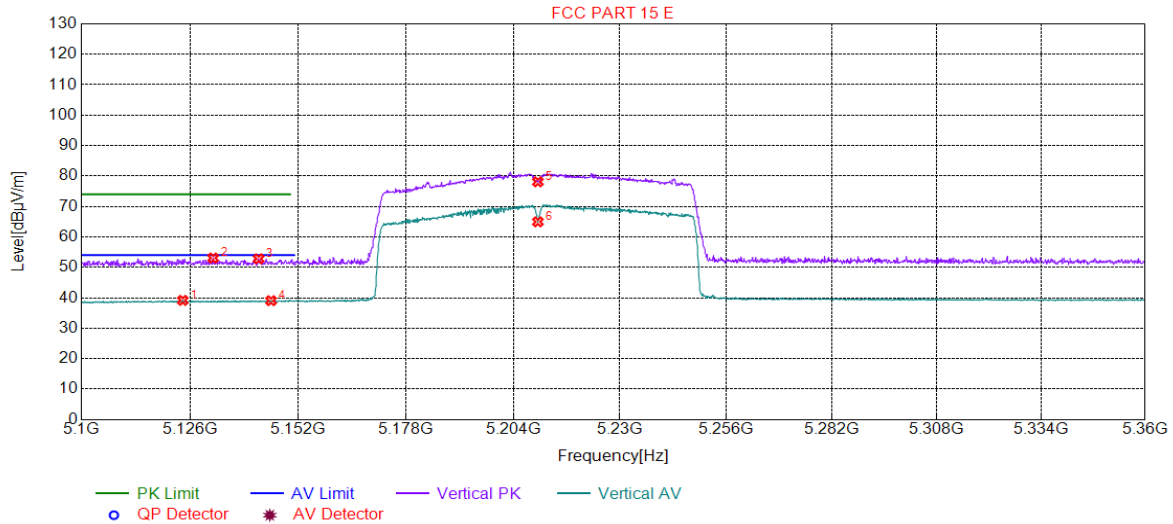


### 4.10.1.126 802.11AC80\_Channel 42

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5124.19	39.16	15.30	54.00	14.84	167	16	Vertical
2	5131.47	53.07	15.36	74.00	20.93	169	301	Vertical
3	5142.40	52.81	15.45	74.00	21.19	231	227	Vertical
4	5145.39	39.06	15.48	54.00	14.94	215	233	Vertical
5	5210.00	78.10	15.56	0.00	-78.10	212	96	Vertical
6	5210.00	64.96	15.56	0.00	-64.96	151	89	Vertical

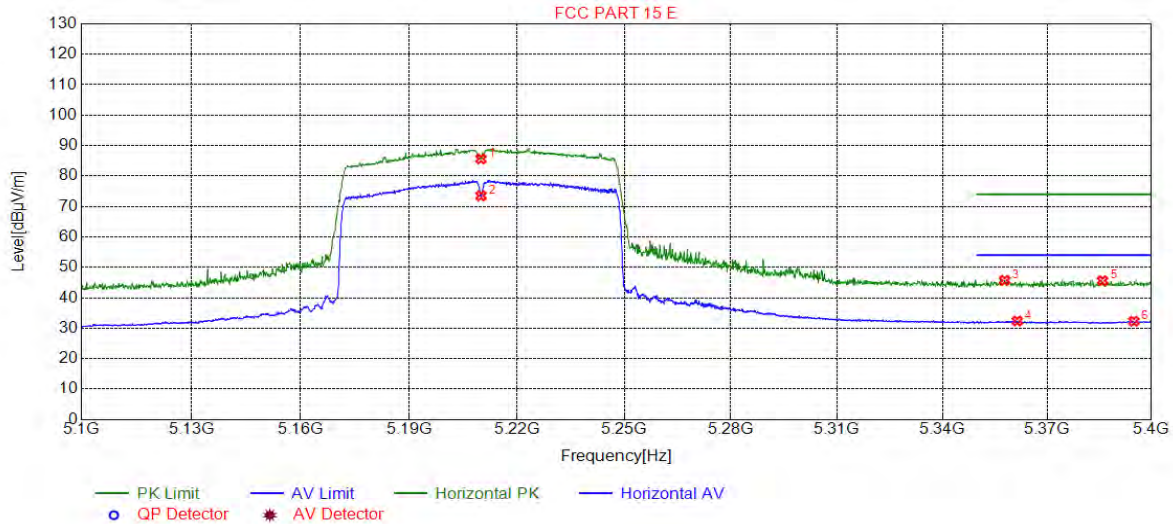
#### Final Data List



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### 4.10.1.127 802.11AC80\_Channel 42

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	85.61	15.56	0.00	-85.61	215	324	Horizontal
2	5210.00	73.51	15.56	0.00	-73.51	220	331	Horizontal
3	5357.82	45.74	15.99	74.00	28.26	144	134	Horizontal
4	5361.43	32.38	16.01	54.00	21.62	230	60	Horizontal
5	5385.89	45.63	16.16	74.00	28.37	150	208	Horizontal
6	5394.89	32.28	16.22	54.00	21.72	140	128	Horizontal

#### Final Data List

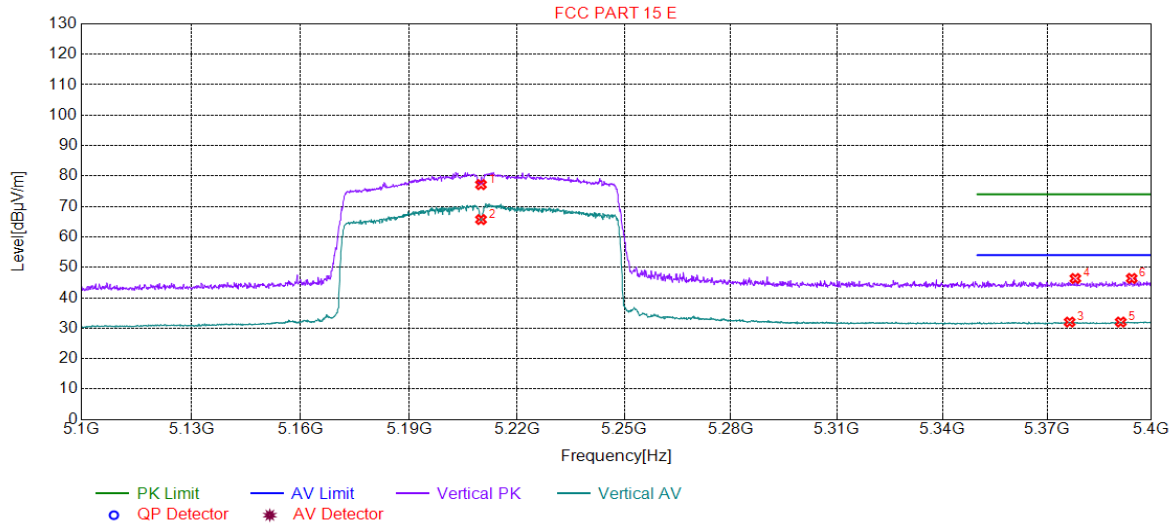


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**4.10.1.128 802.11AC80\_Channel 42**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	77.17	15.56	0.00	-77.17	159	311	Vertical
2	5210.00	65.70	15.56	0.00	-65.70	266	90	Vertical
3	5376.43	32.03	16.10	54.00	21.97	157	63	Vertical
4	5378.08	46.35	16.11	74.00	27.65	157	139	Vertical
5	5391.14	32.04	16.20	54.00	21.96	171	16	Vertical
6	5394.29	46.38	16.21	74.00	27.62	153	263	Vertical

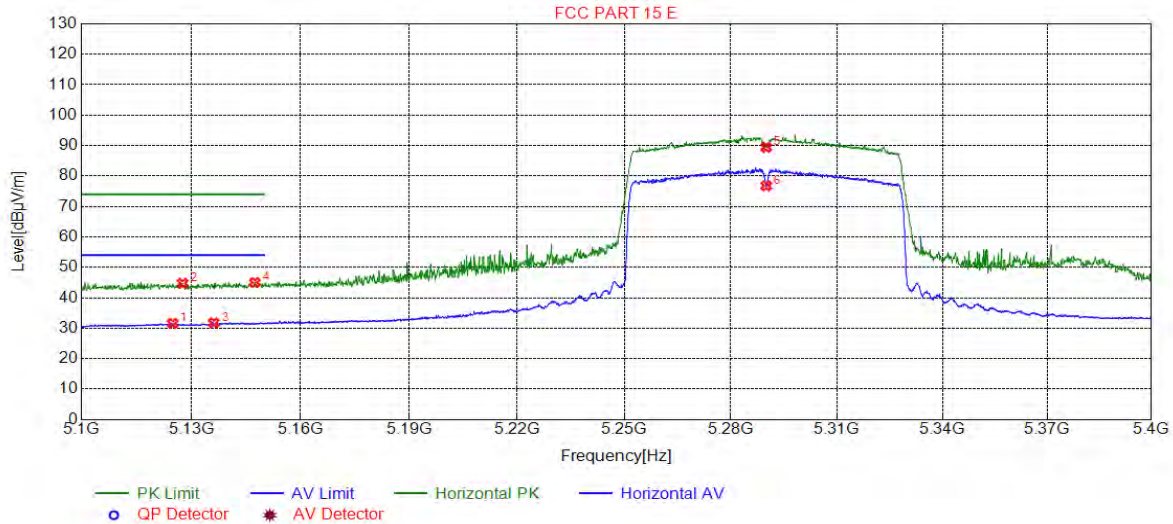
**Final Data List**



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### 4.10.1.129 802.11AC80\_Channel 58

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5124.91	31.61	15.30	54.00	22.39	190	18	Horizontal
2	5127.61	44.76	15.33	74.00	29.24	185	318	Horizontal
3	5136.16	31.77	15.40	54.00	22.23	122	332	Horizontal
4	5147.42	45.03	15.50	74.00	28.97	206	4	Horizontal
5	5290.00	89.44	15.65	0.00	-89.44	242	325	Horizontal
6	5290.00	76.77	15.65	0.00	-76.77	190	332	Horizontal

#### Final Data List

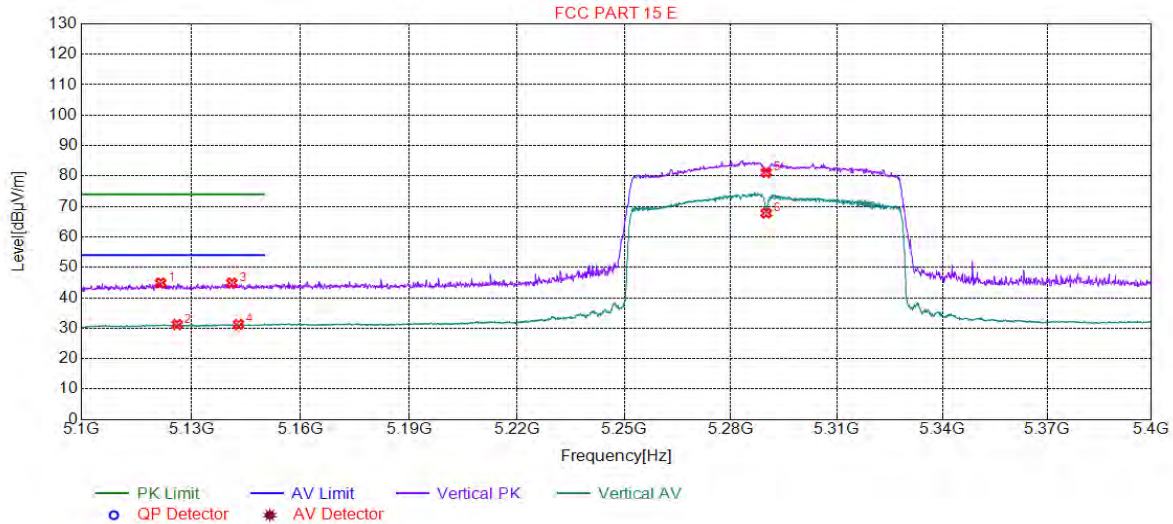


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### 4.10.1.130 802.11AC80\_Channel 58

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.61	44.92	15.28	74.00	29.08	186	357	Vertical
2	5126.11	31.24	15.31	54.00	22.76	196	203	Vertical
3	5141.12	44.88	15.44	74.00	29.12	292	29	Vertical
4	5142.92	31.29	15.46	54.00	22.71	181	58	Vertical
5	5290.00	81.15	15.65	0.00	-81.15	246	316	Vertical
6	5290.00	67.83	15.65	0.00	-67.83	182	86	Vertical

#### Final Data List

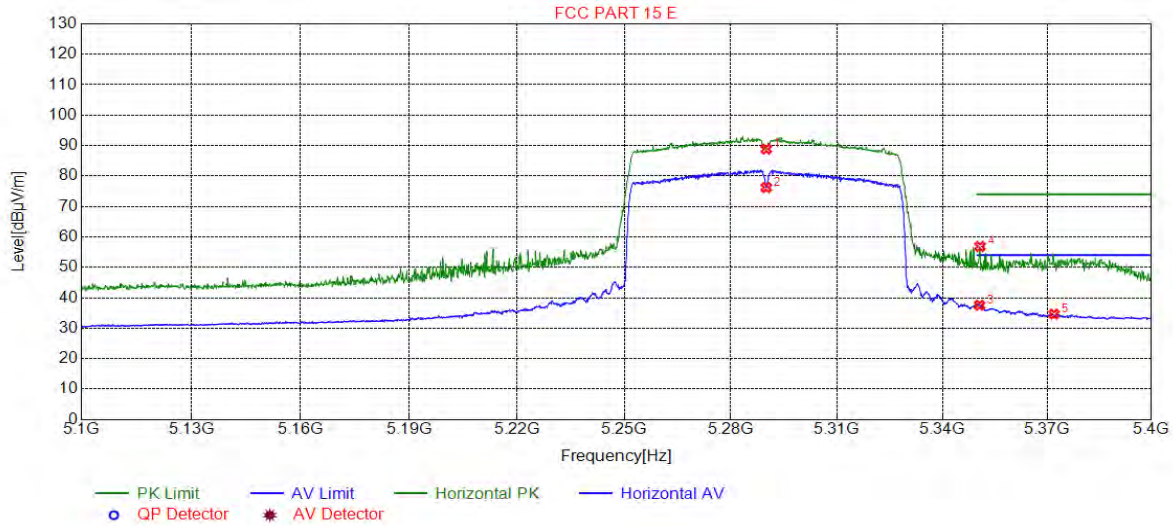


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### 4.10.1.131 802.11AC80\_Channel 58

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	88.86	15.65	0.00	-88.86	115	316	Horizontal
2	5290.00	76.21	15.65	0.00	-76.21	166	229	Horizontal
3	5350.62	37.56	15.94	54.00	16.44	169	236	Horizontal
4	5350.77	56.86	15.94	74.00	17.14	206	323	Horizontal
5	5371.93	34.64	16.08	54.00	19.36	108	222	Horizontal

#### Final Data List

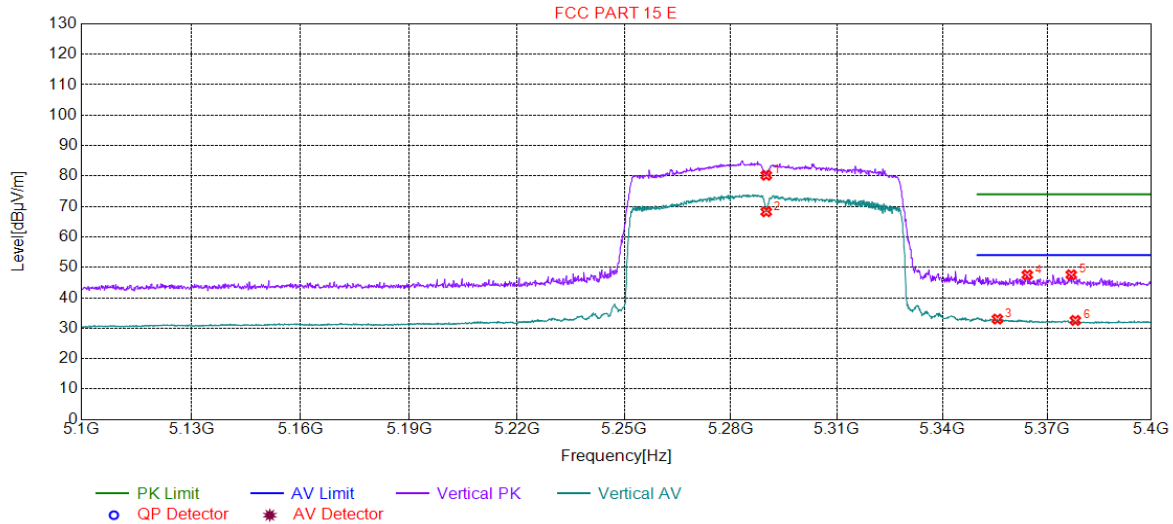


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### 4.10.1.132 802.11AC80\_Channel 58

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	80.24	15.65	0.00	-80.24	152	91	Vertical
2	5290.00	68.27	15.65	0.00	-68.27	297	309	Vertical
3	5355.72	33.01	15.98	54.00	20.99	208	309	Vertical
4	5364.28	47.53	16.03	74.00	26.47	154	302	Vertical
5	5376.88	47.57	16.11	74.00	26.43	178	288	Vertical
6	5378.08	32.57	16.11	54.00	21.43	283	302	Vertical

#### Final Data List

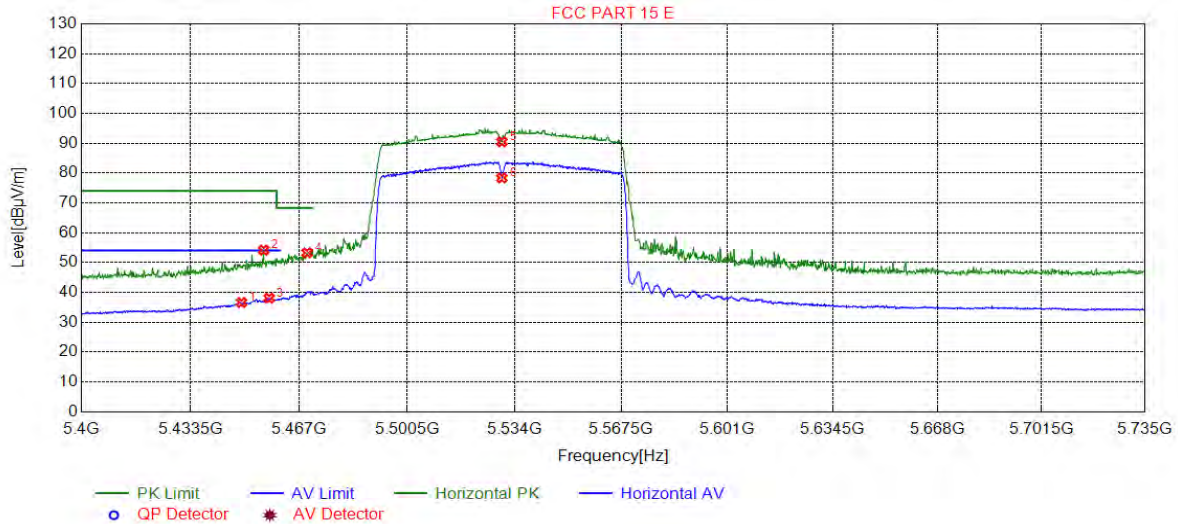


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**4.10.1.133 802.11AC80\_Channel 106**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5449.10	36.57	16.25	54.00	17.43	232	235	Horizontal
2	5455.97	54.16	16.25	74.00	19.84	228	210	Horizontal
3	5457.64	38.04	16.25	54.00	15.96	218	223	Horizontal
4	5469.37	53.24	16.25	68.30	15.06	108	229	Horizontal
5	5530.00	90.44	16.35	0.00	-90.44	174	235	Horizontal
6	5530.00	78.34	16.35	0.00	-78.34	193	223	Horizontal

**Final Data List**

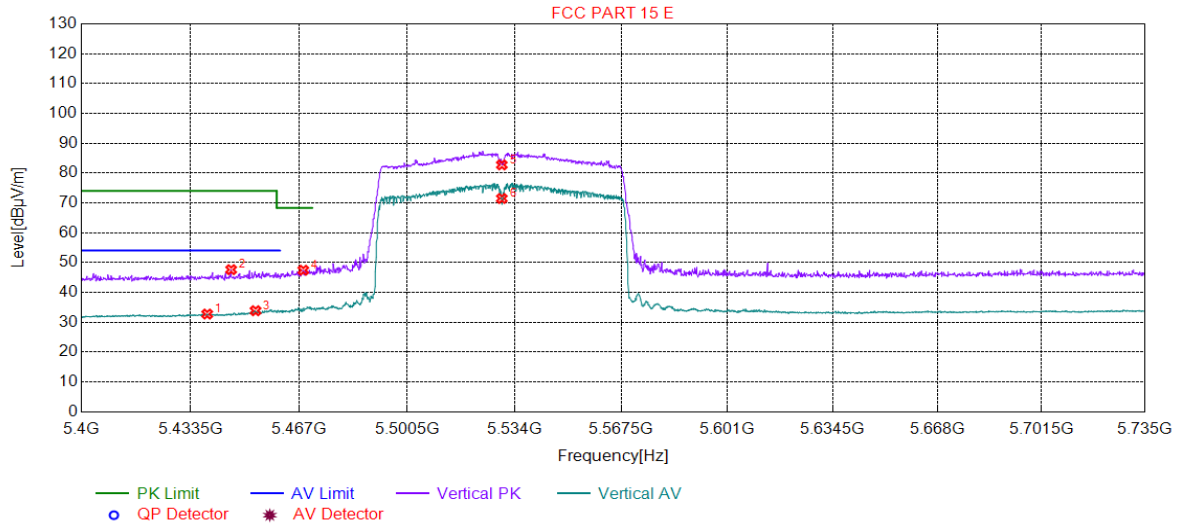
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**4.10.1.134 802.11AC80\_Channel 106**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5438.54	32.71	16.25	54.00	21.29	204	91	Vertical
2	5445.91	47.60	16.25	74.00	26.40	284	325	Vertical
3	5453.45	33.83	16.25	54.00	20.17	271	310	Vertical
4	5468.20	47.41	16.25	68.30	20.89	275	310	Vertical
5	5530.00	82.71	16.35	0.00	-82.71	292	317	Vertical
6	5530.00	71.45	16.35	0.00	-71.45	183	310	Vertical

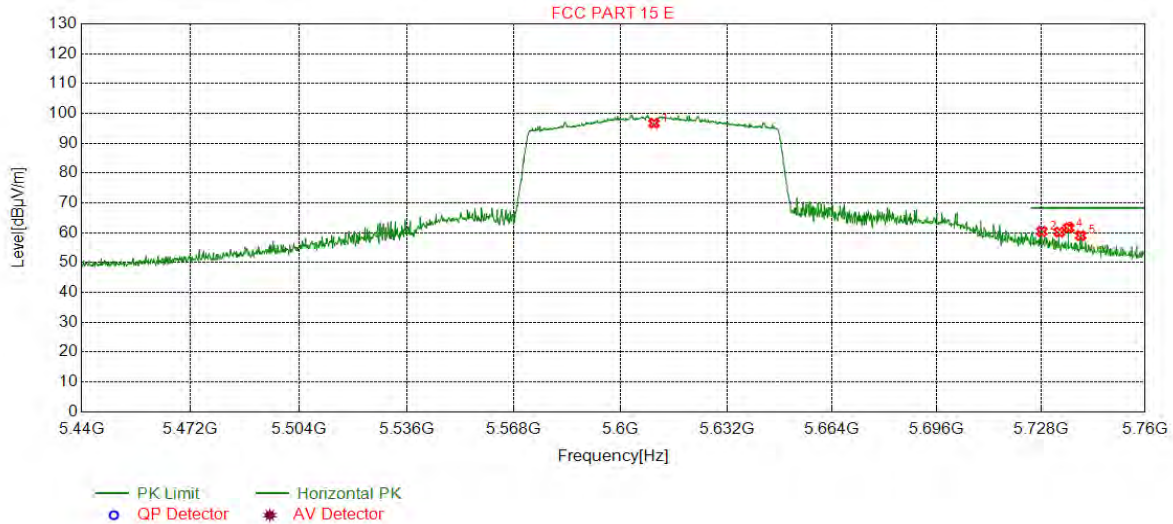
**Final Data List**



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### 4.10.1.135 802.11AC80\_Channel 122

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	96.67	16.58	0.00	-96.67	180	226	Horizontal
2	5728.14	60.42	16.98	68.30	7.88	147	226	Horizontal
3	5733.58	60.17	17.01	68.30	8.13	182	253	Horizontal
4	5736.46	61.61	17.03	68.30	6.69	150	230	Horizontal
5	5740.15	59.02	17.06	68.30	9.28	107	253	Horizontal

#### Final Data List

Final Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	96.67	16.58	0.00	-96.67	180	226	Horizontal
2	5728.14	60.42	16.98	68.30	7.88	147	226	Horizontal
3	5733.58	60.17	17.01	68.30	8.13	182	253	Horizontal
4	5736.46	61.61	17.03	68.30	6.69	150	230	Horizontal
5	5740.15	59.02	17.06	68.30	9.28	107	253	Horizontal

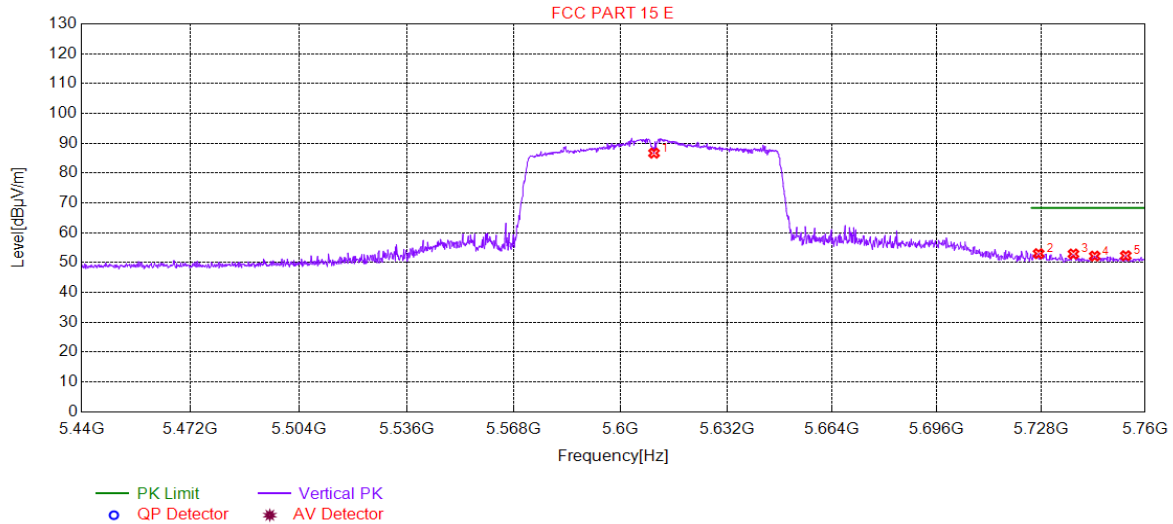


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### 4.10.1.136 802.11AC80\_Channel 122

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	86.65	16.58	0.00	-86.65	269	306	Vertical
2	5727.18	52.97	16.97	68.30	15.33	159	74	Vertical
3	5737.90	52.86	17.04	68.30	15.44	235	338	Vertical
4	5744.47	52.15	17.08	68.30	16.15	204	70	Vertical
5	5754.07	52.28	17.13	68.30	16.02	229	261	Vertical

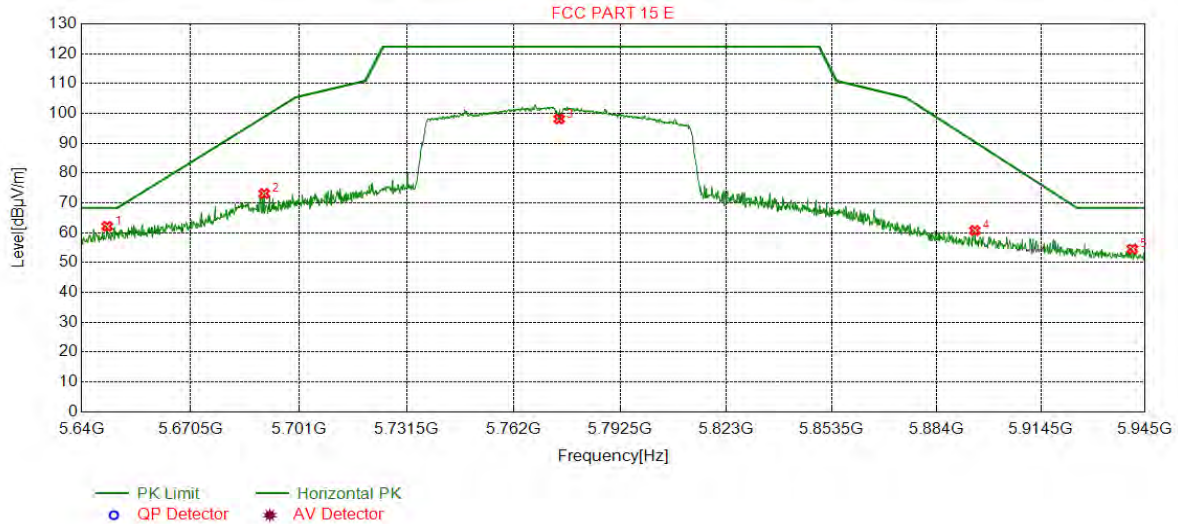
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### 4.10.1.137 802.11AC80\_Channel 155

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.17	62.09	16.53	68.30	6.21	151	212	Horizontal
2	5691.26	73.11	16.75	98.84	25.73	168	217	Horizontal
3	5775.00	98.10	17.16	122.30	24.20	149	221	Horizontal
4	5895.10	60.71	17.12	90.42	29.71	187	317	Horizontal
5	5941.33	54.52	17.75	68.30	13.78	218	221	Horizontal

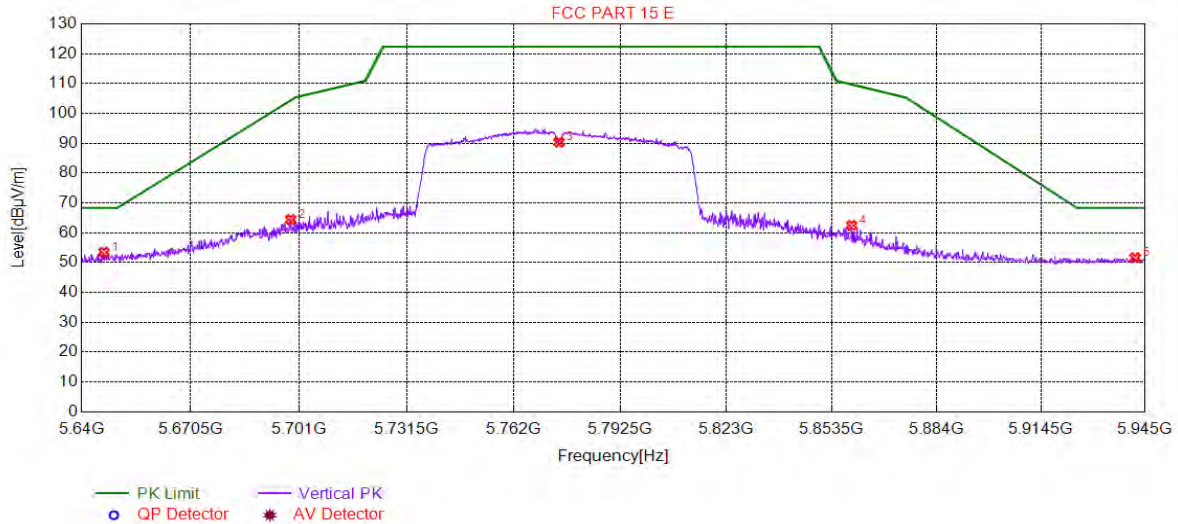
#### Final Data List



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### 4.10.1.138 802.11AC80\_Channel 155

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.25	53.45	16.53	68.30	14.85	193	306	Vertical
2	5698.74	64.40	16.79	104.37	39.97	290	61	Vertical
3	5775.00	90.33	17.16	122.30	31.97	186	297	Vertical
4	5859.25	62.44	17.23	109.71	47.27	246	89	Vertical
5	5942.10	51.59	17.76	68.30	16.71	171	66	Vertical

#### Final Data List

#### Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All modes have been tested, but only the worst case data displayed in this report.



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## 4.11 Frequencies Stability

### 4.11.1 Frequency Error vs. Voltage

Test Conditions	Measured Frequency ( MHz )	
	5180	5825
V nom(V)	5180.003224	5825.009597
V max(V)	5180.010760	5825.018284
V min(V)	5180.011279	5825.019783
Max. Deviation Frequency	0.011279	0.019783
Max. Frequency Error (ppm)	2.177423	3.396229

### 4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency ( MHz )	
	5180	5825
-5	5180.005724	5825.004138
5	5180.010918	5825.008064
15	5180.016968	5825.015235
25	5180.026545	5825.017510
35	5180.027866	5825.024623
45	5180.028205	5825.026787
50	5180.028620	5825.031525
Max. Deviation Frequency	0.028620	0.031525
Max. Frequency Error (ppm)	5.525066	5.411998



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## 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
<b>Additional requirements for devices with multiple bandwidth modes</b>	<b>Master Device or Client with Radar Detection</b>	<b>Client Without Radar Detection</b>
<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><b>Note:</b> 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 $\geq$ 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><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> 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.</p> <p><b>Note 3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

#### 4.12.3 Response Requirements



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**Table 4: DFS Response Requirement Values**

<b>Parameter</b>	<b>Value</b>
<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.

**Note 1:** *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel 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 *U-NII Detection Bandwidth* 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.



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#### 4.12.4 Test Procedures

The FCC KDB 905462 D02 describes a radiated test setup and a conducted test setup. A conducted test setup was used for this testing. Figure 1 shows the typical test setup.

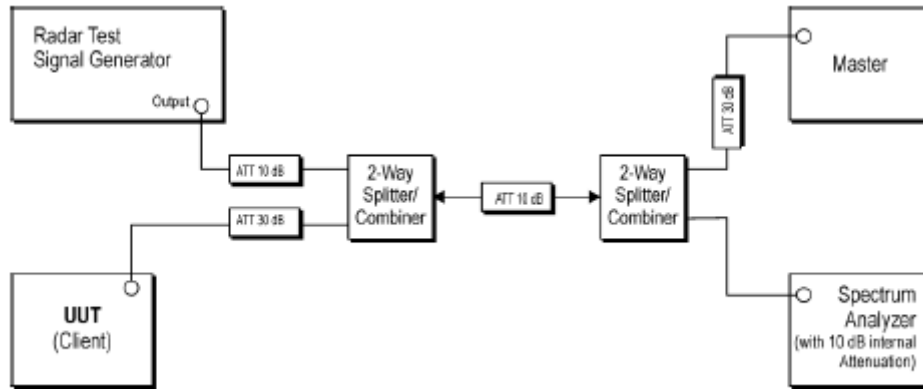


Figure 1. Test Setup for DFS

1. The radar pulse generator is setup to provide a pulse at the frequency that the Master and Client are operating. A Type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
  2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at a level of approximately -64dBm at the antenna of the Master device.
  3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the Traffic and the occurrence of the radar pulse.
  4. The Client Device (EUT) is set up per the diagram in Figure 1 and communications between the Master device and the Client is established.
  5. The data file specified by the FCC which the timing plots minimum channel loading of approximately 17% or greater is streamed from the "file computer" through the Master to the Slave Device.
  6. The real time spectrum analyzer is set to record a 13sec window to any transmissions occurring up to and after 10sec.
  7. The system is again setup and the monitoring time is shortened in order to capture the Channel Closing Transmission Time. This time is measured to insure that the Client ceases transmission within 200ms and the aggregate of emissions occurring after 200ms up to 10 sec do not exceed 60ms.
- (Note: the channel may be different since the Master and Client have changed channels due to the detection of the initial radar pulse.)



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8. Monitor the UUT for more than 30 minutes following Channel Closing Transmission Time if radar detection occurs to verify that the UUT does not resume any transmissions on this Channel.



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#### 4.12.5 Test plots

##### 4.12.5.1 DFS Detection Thresholds

##### 4.12.5.1.1 Test Result

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-64.21	-62.00	PASS
	5500	Type0	-62.00	-62.00	PASS
11AC80SISO	5290	Type0	-62.18	-62.00	PASS
	5530	Type0	-62.81	-62.00	PASS

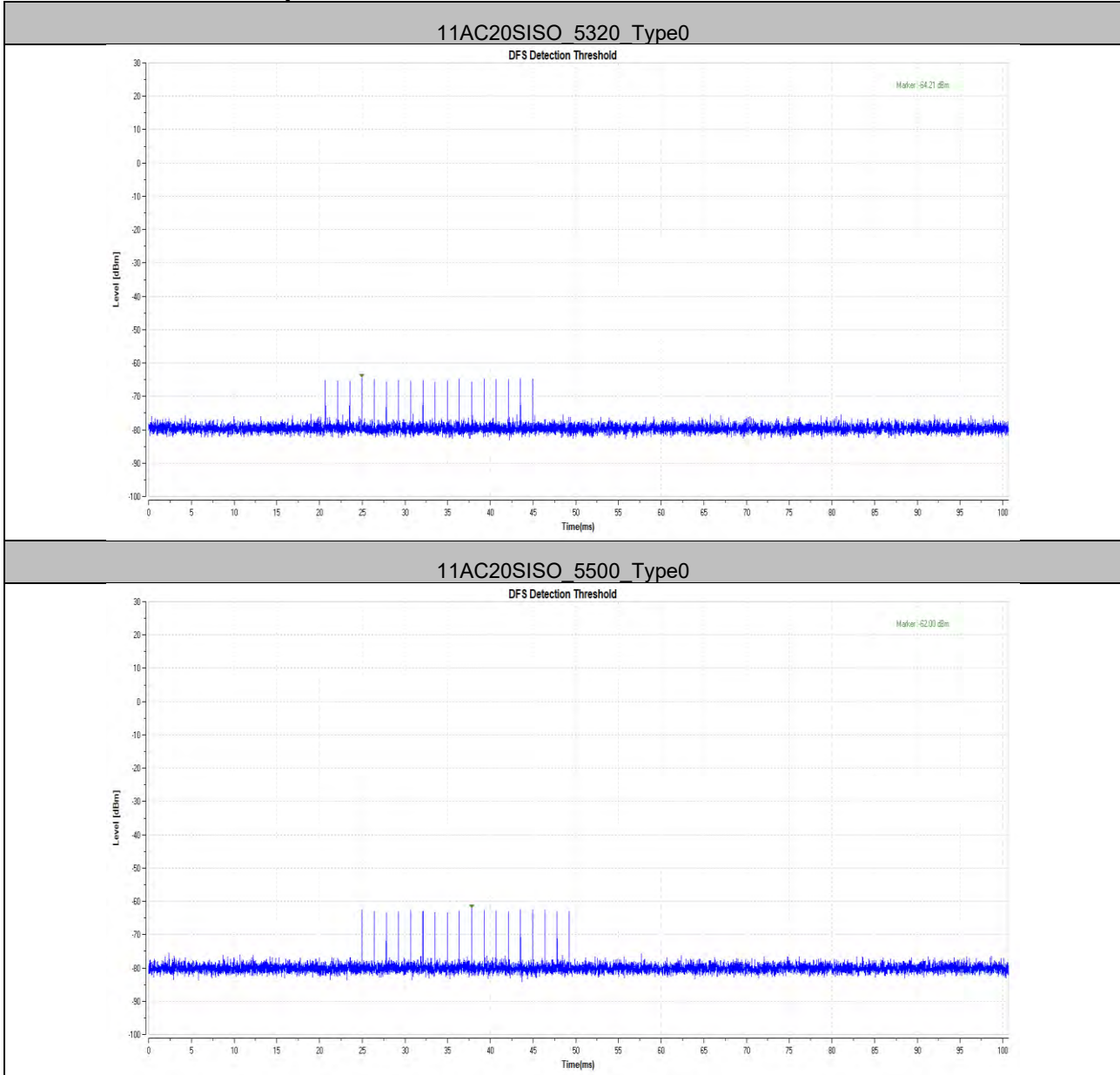


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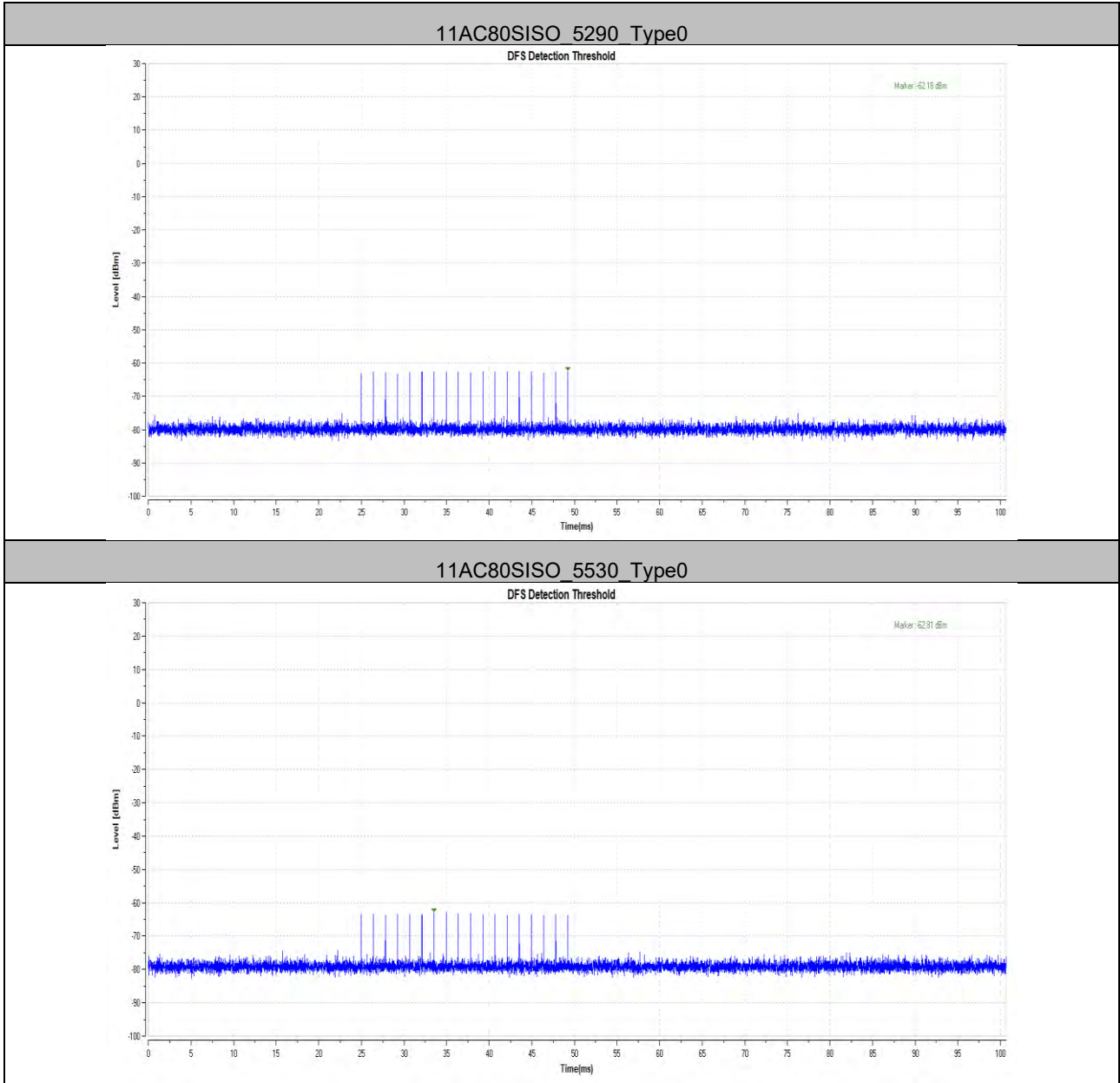
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### 4.12.5.1.2 Test Graphs



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**4.12.5.2 Channel Move Time and Channel Closing Transmission Time**

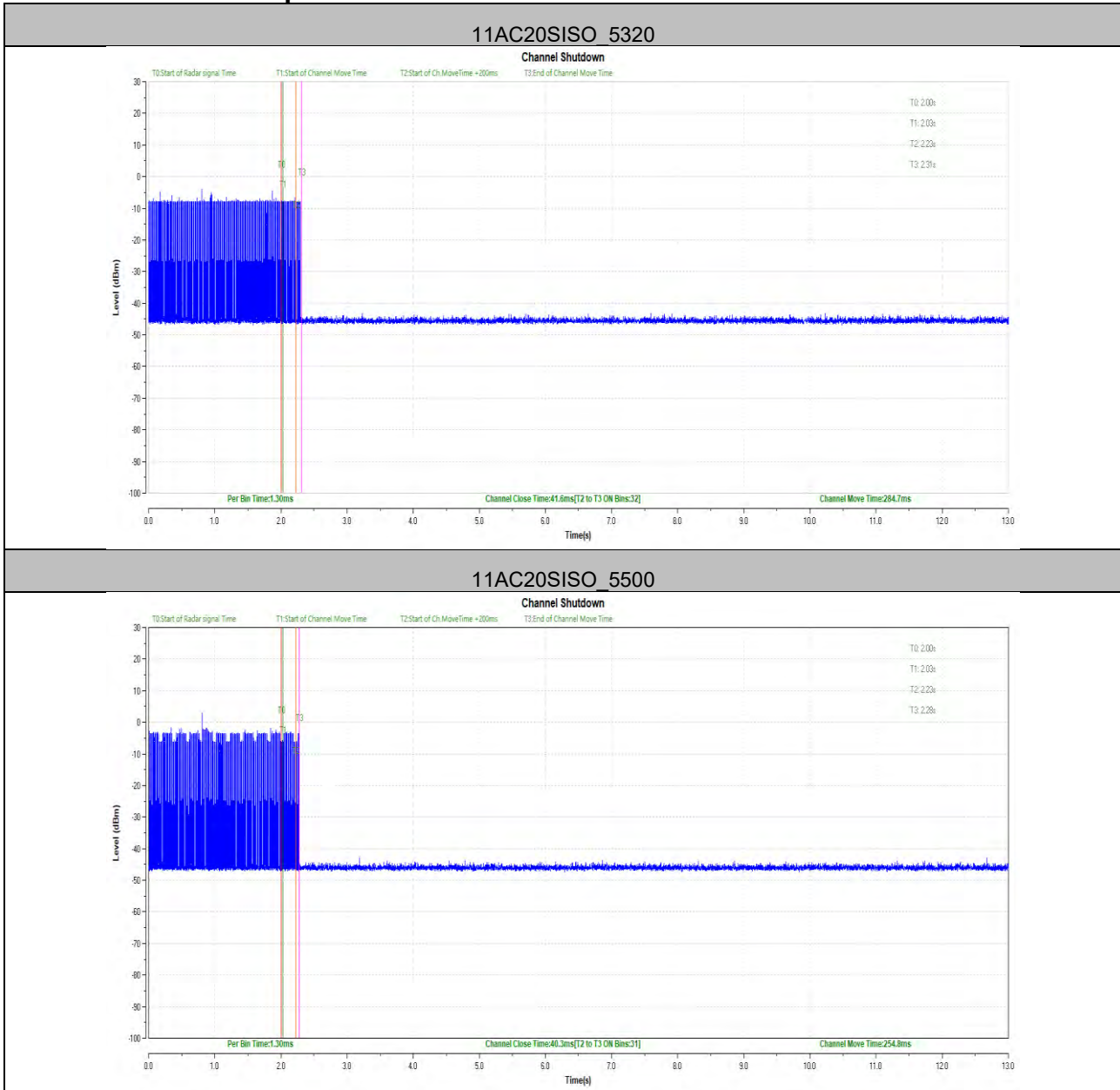
**4.12.5.2.1 Test Result**

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	41.6	60	284.7	10000	PASS
	5500	40.3	60	254.8	10000	PASS
11AC80SISO	5290	0	60	161.2	10000	PASS
	5530	53.3	60	343.2	10000	PASS



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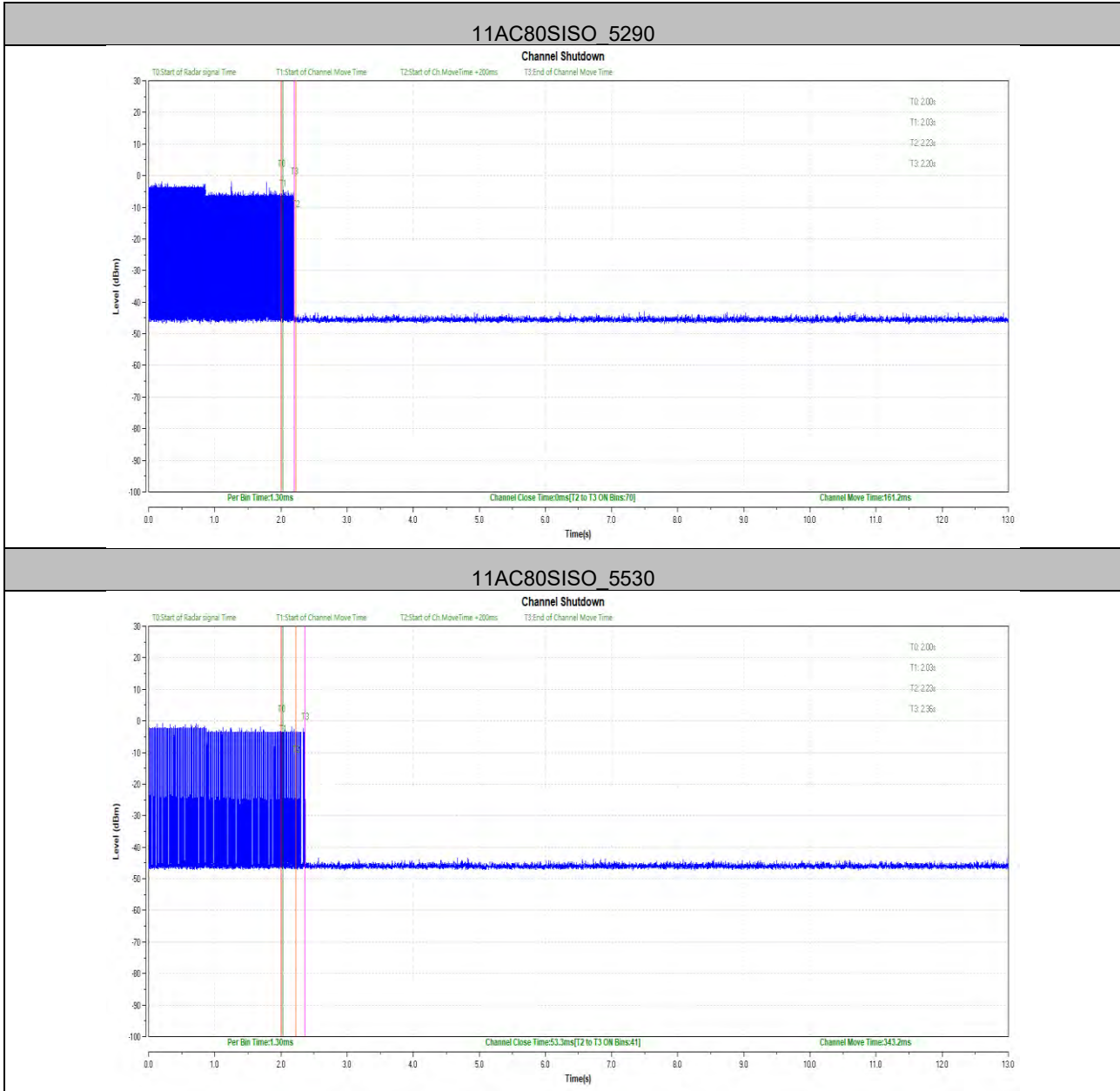
### 4.12.5.2.2 Test Graphs



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**4.12.5.3 Non-Occupancy Period**

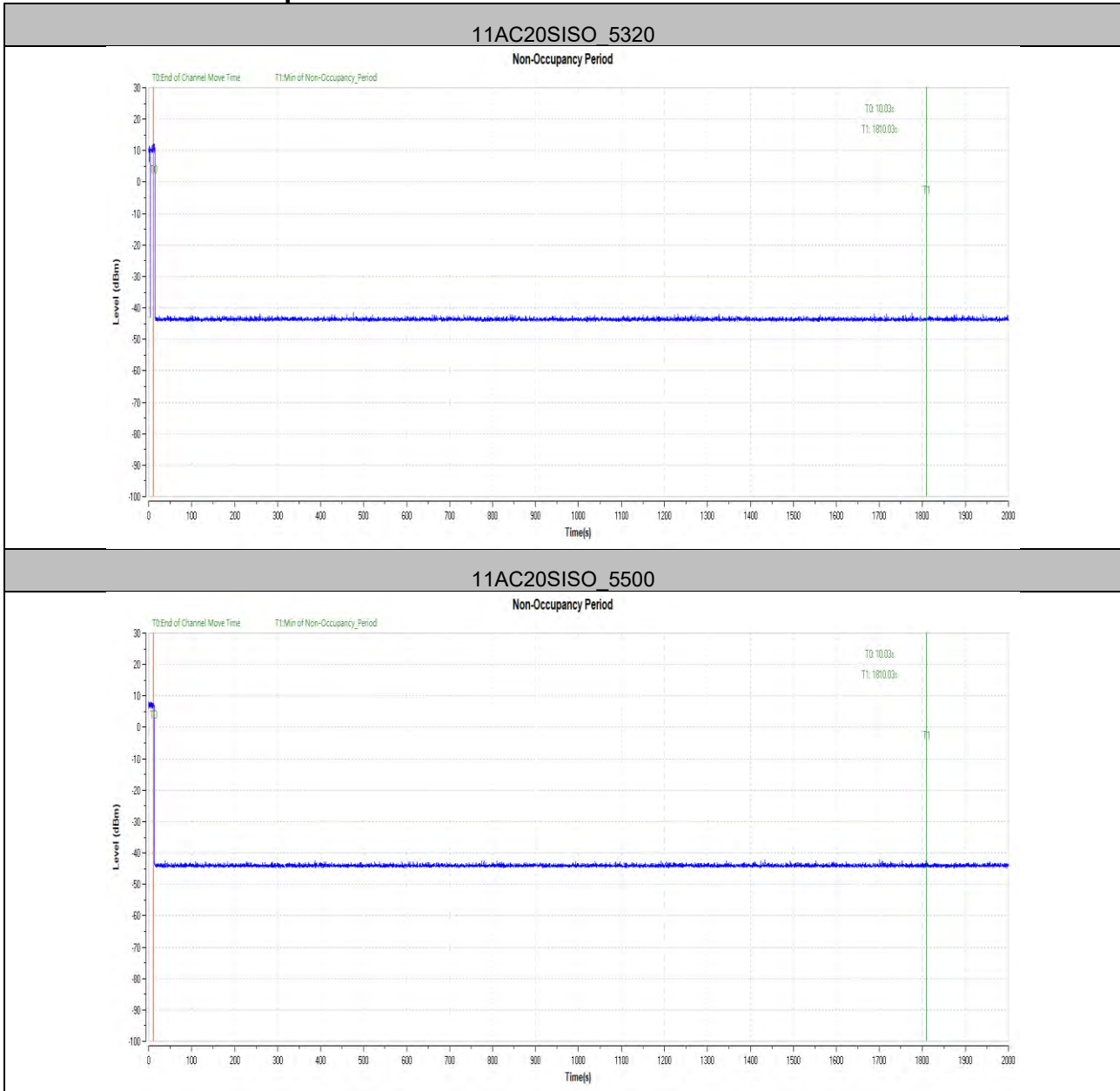
**4.12.5.3.1 Test Result**

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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### 4.12.5.3.2 Test Graphs



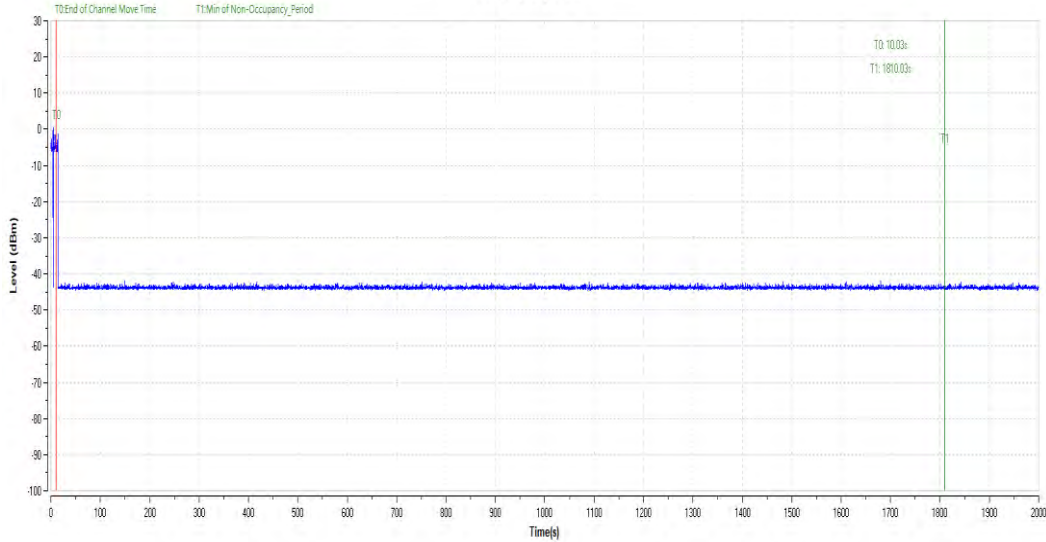
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

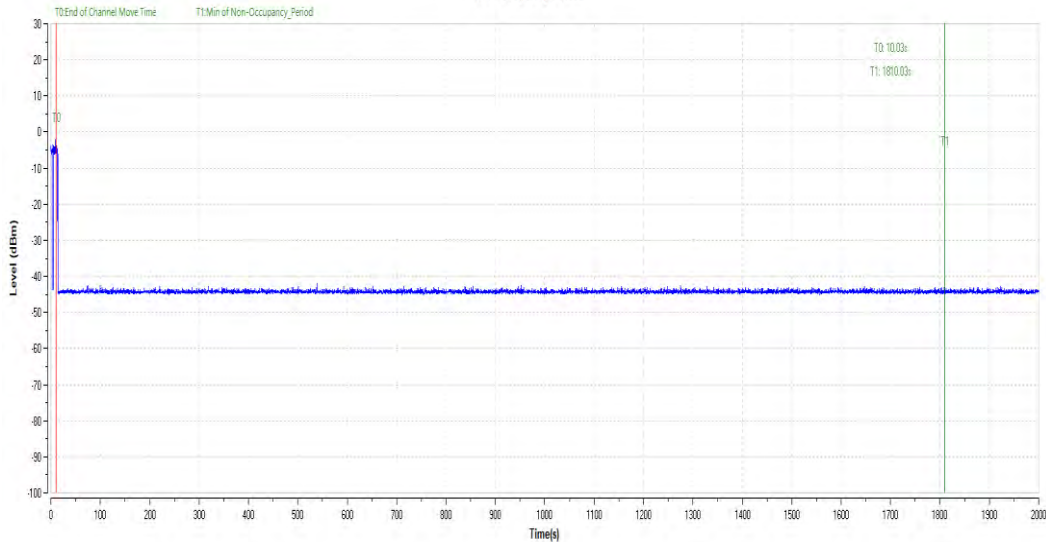
### 11AC80SISO\_5290

Non-Occupancy Period



### 11AC80SISO\_5530

Non-Occupancy Period



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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	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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## 6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2020/7/14	2021/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

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	XAW01-08-05	2020-04-12	2021-04-11
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



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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
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2020-04-15	2021-04-14
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	2020-04-12	2021-04-11
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

## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for HR/2020/B0007.



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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	28.020	5166.290	5194.310	---	PASS
		5200	27.270	5186.620	5213.890	---	PASS
		5240	26.700	5226.620	5253.320	---	PASS
		5260	25.320	5246.710	5272.030	---	PASS
		5300	24.900	5287.340	5312.240	---	PASS
		5320	25.290	5307.430	5332.720	---	PASS
		5500	25.080	5487.400	5512.480	---	PASS
		5580	25.770	5567.280	5593.050	---	PASS
		5700	25.650	5687.430	5713.080	---	PASS
		5745	20.250	5734.860	5755.110	---	PASS
		5785	20.310	5774.860	5795.170	---	PASS
		5825	20.460	5814.710	5835.170	---	PASS
		11N20SISO	Ant1	5180	29.850	5165.000	5194.850
5200	29.790			5185.210	5215.000	---	PASS
5240	29.640			5225.120	5254.760	---	PASS
5260	24.090			5247.190	5271.280	---	PASS
5300	26.370			5286.290	5312.660	---	PASS
5320	26.790			5306.470	5333.260	---	PASS
5500	26.940			5487.100	5514.040	---	PASS
5580	27.180			5567.070	5594.250	---	PASS
5700	24.450			5687.040	5711.490	---	PASS
5745	20.640			5734.680	5755.320	---	PASS
5785	20.700			5774.710	5795.410	---	PASS
5825	20.850			5814.740	5835.590	---	PASS
11N40SISO	Ant1			5190	56.760	5163.120	5219.880
		5230	58.920	5200.780	5259.700	---	PASS
		5270	49.020	5246.180	5295.200	---	PASS
		5310	58.680	5281.080	5339.760	---	PASS



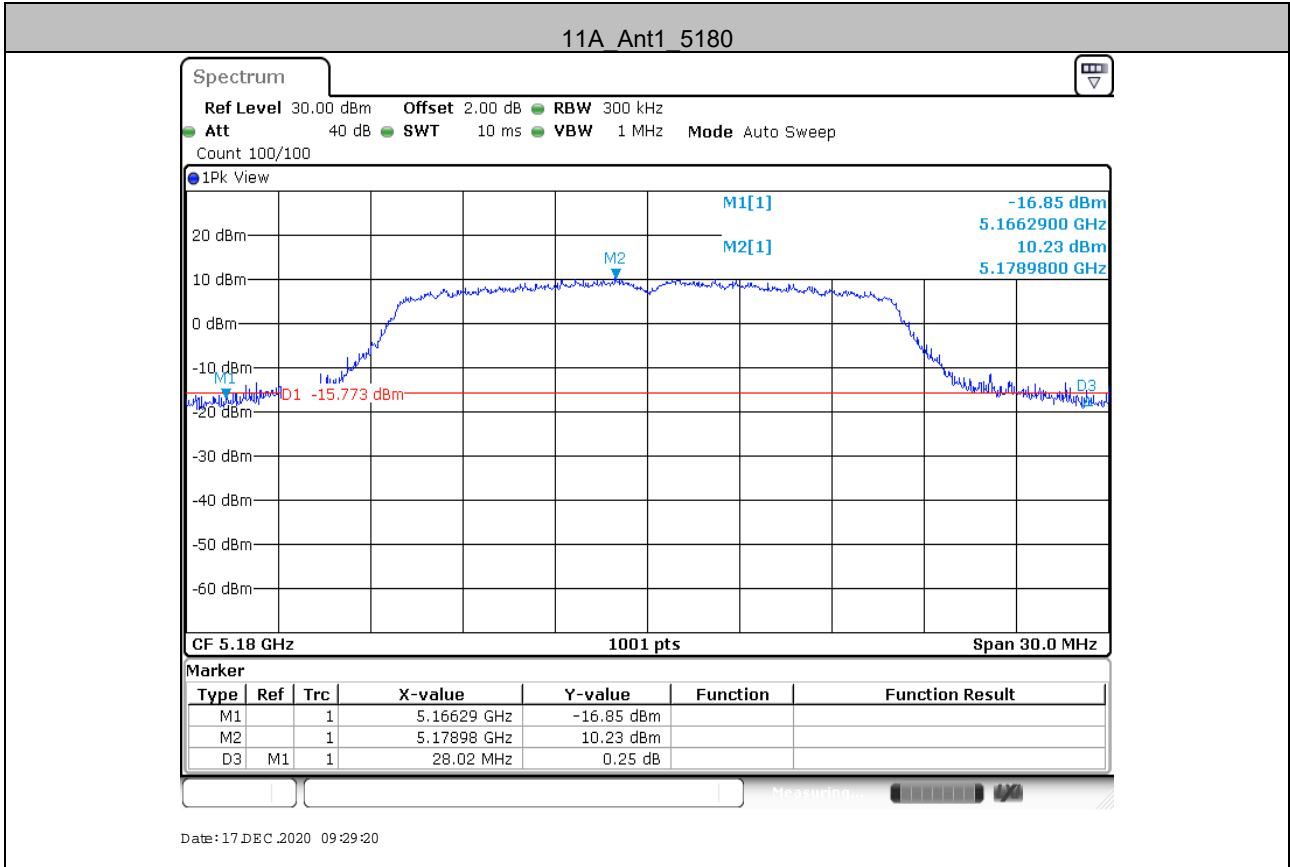
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		5510	47.760	5486.780	5534.540	---	PASS
		5550	54.480	5525.400	5579.880	---	PASS
		5670	47.400	5647.320	5694.720	---	PASS
		5755	41.040	5734.480	5775.520	---	PASS
		5795	41.040	5774.540	5815.580	---	PASS
11AC20SISO	Ant1	5180	29.670	5165.210	5194.880	---	PASS
		5200	29.910	5185.060	5214.970	---	PASS
		5240	29.910	5225.000	5254.910	---	PASS
		5260	25.680	5247.340	5273.020	---	PASS
		5300	26.340	5287.370	5313.710	---	PASS
		5320	22.440	5308.510	5330.950	---	PASS
		5500	26.040	5487.430	5513.470	---	PASS
		5580	28.830	5565.120	5593.950	---	PASS
		5700	24.060	5687.970	5712.030	---	PASS
		5745	20.610	5734.680	5755.290	---	PASS
		5785	21.390	5774.740	5796.130	---	PASS
		5825	20.640	5814.650	5835.290	---	PASS
11AC40SISO	Ant1	5190	55.320	5162.640	5217.960	---	PASS
		5230	53.340	5204.740	5258.080	---	PASS
		5270	45.540	5249.120	5294.660	---	PASS
		5310	51.660	5285.940	5337.600	---	PASS
		5510	42.000	5489.420	5531.420	---	PASS
		5550	45.840	5526.480	5572.320	---	PASS
		5670	50.160	5641.620	5691.780	---	PASS
		5755	40.740	5734.600	5775.340	---	PASS
		5795	40.980	5774.540	5815.520	---	PASS
11AC80SISO	Ant1	5210	118.680	5150.720	5269.400	---	PASS
		5290	116.400	5232.400	5348.800	---	PASS
		5530	110.280	5478.640	5588.920	---	PASS
		5610	106.800	5562.360	5669.160	---	PASS
		5775	81.600	5734.200	5815.800	---	PASS



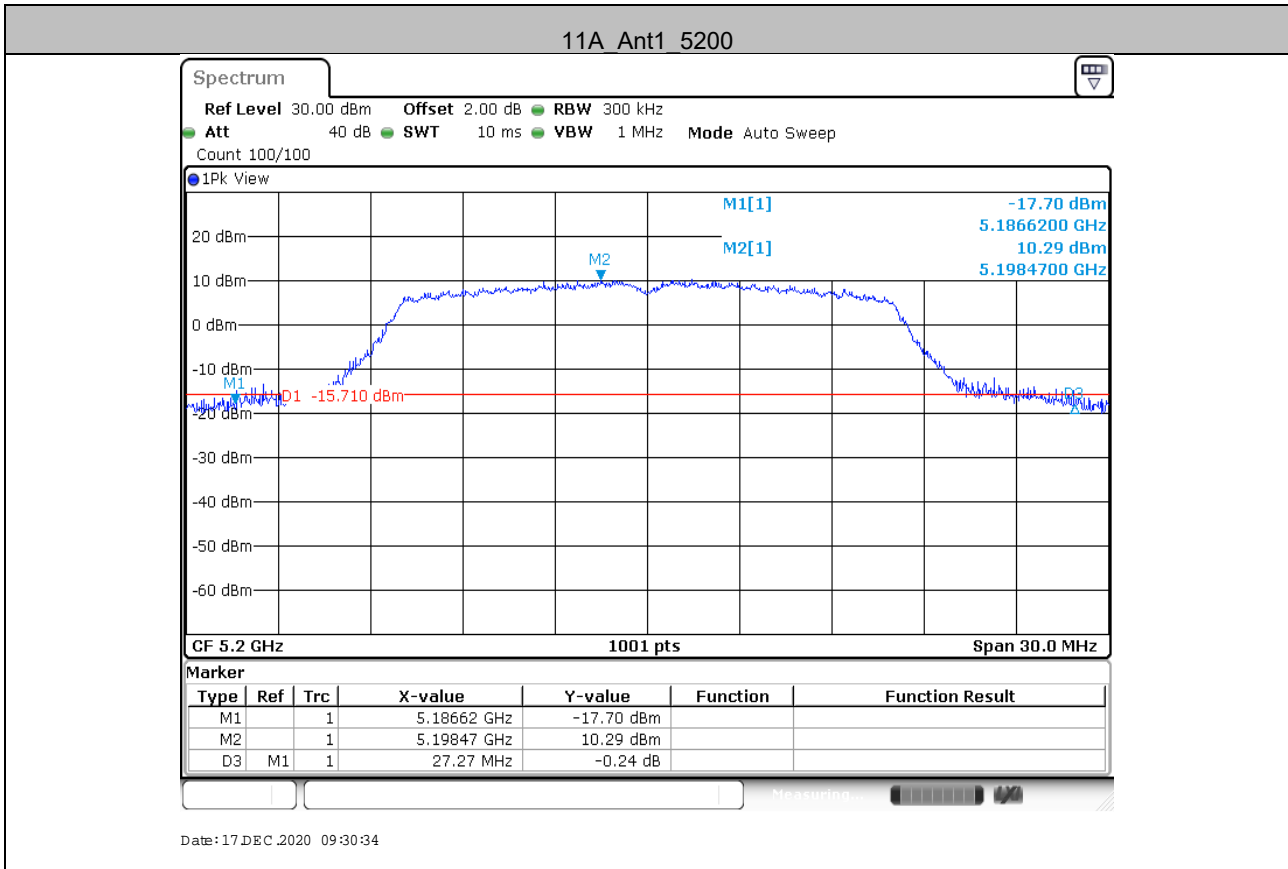
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### Test Graphs

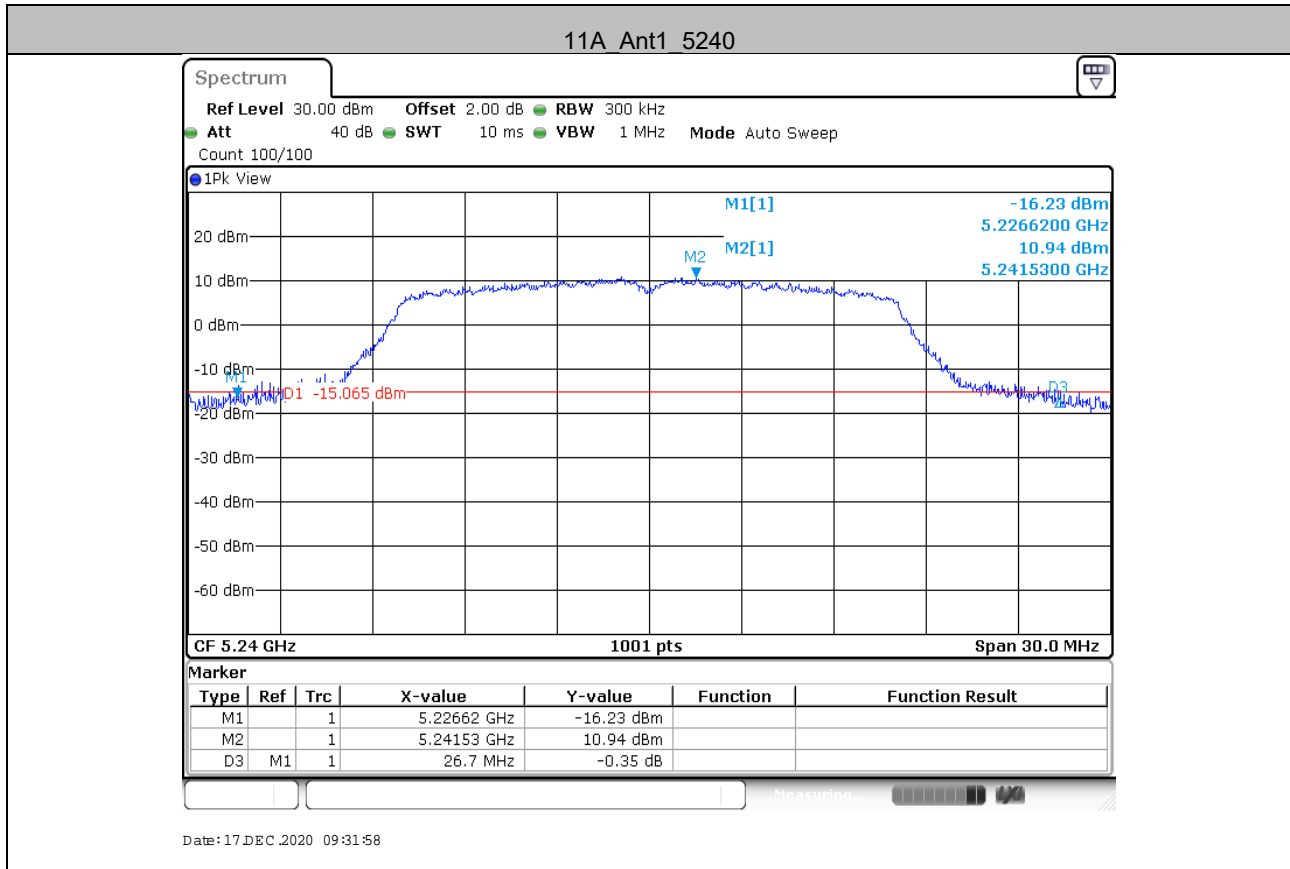


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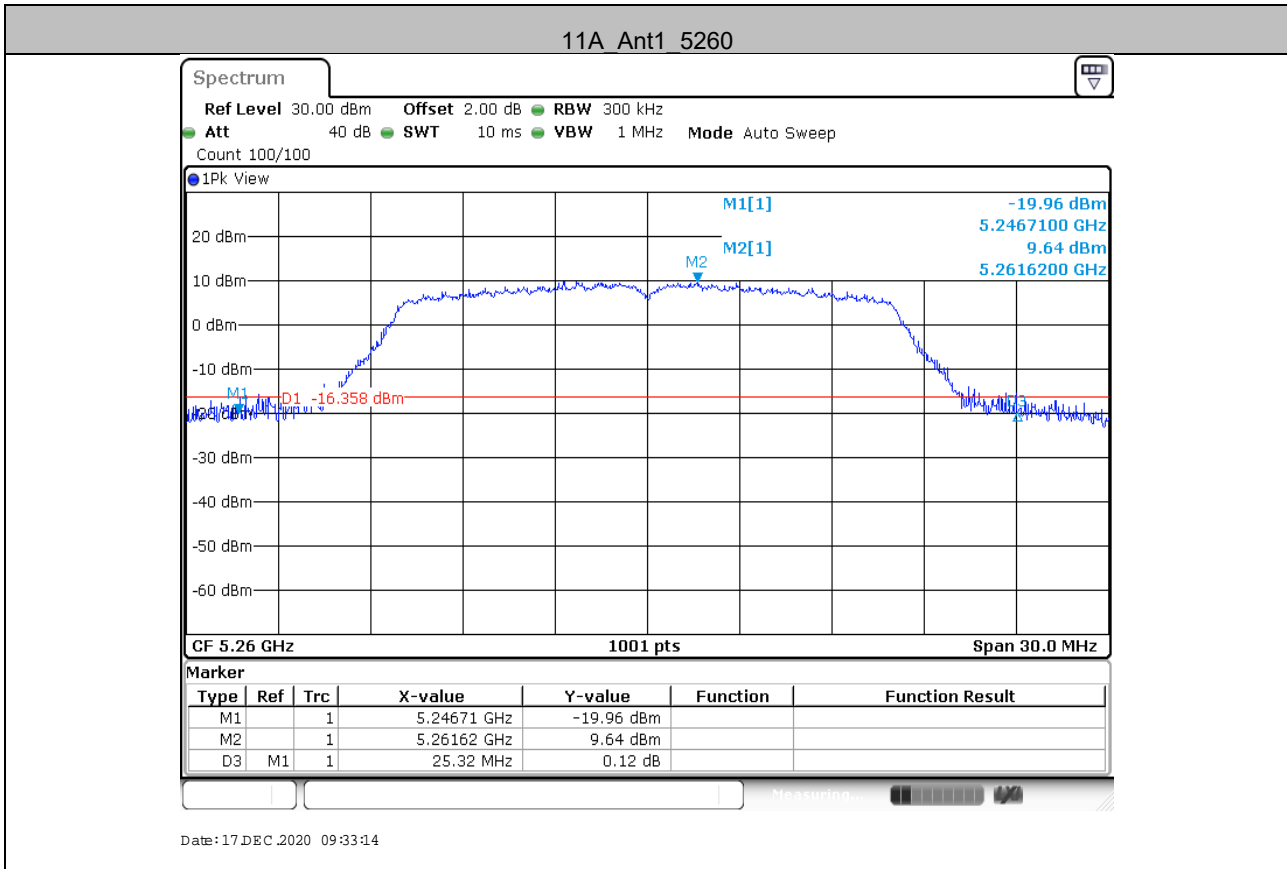
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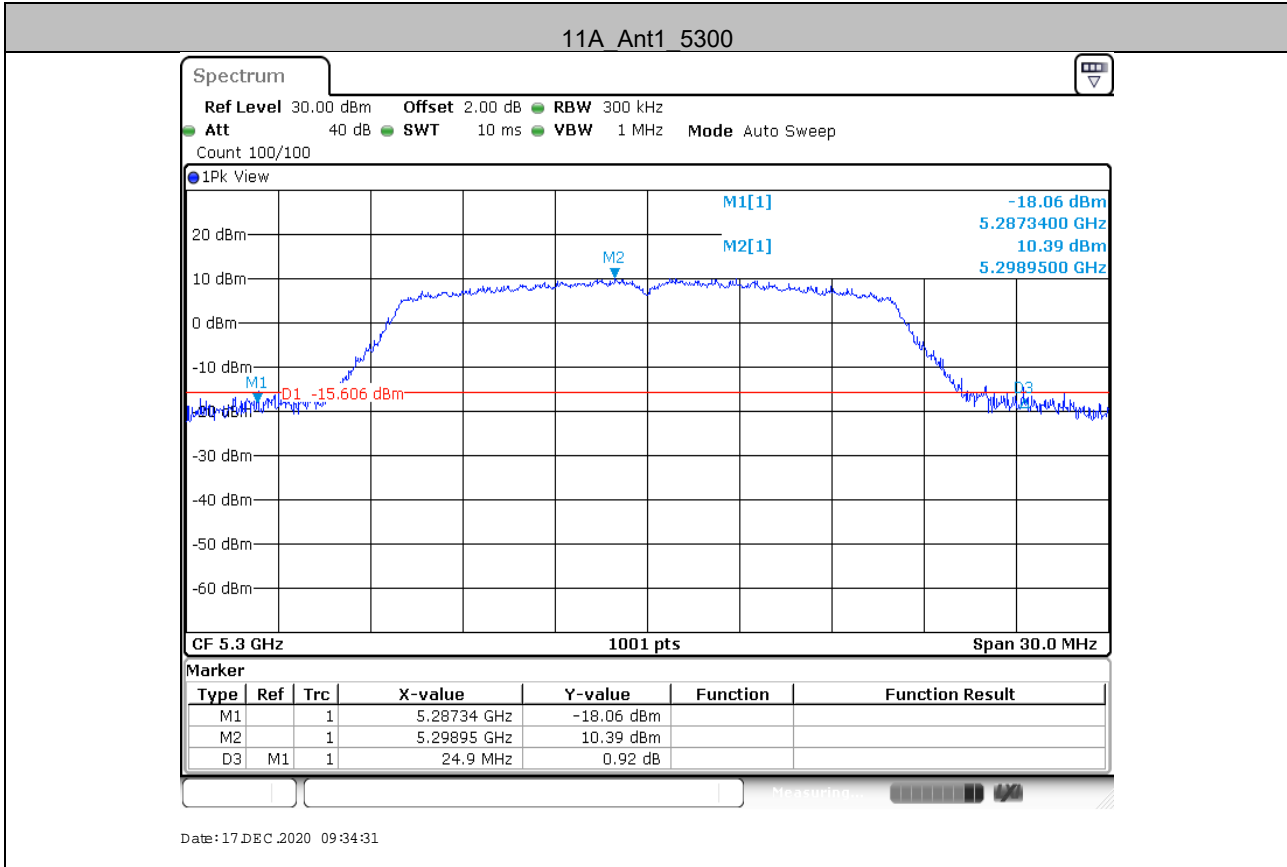


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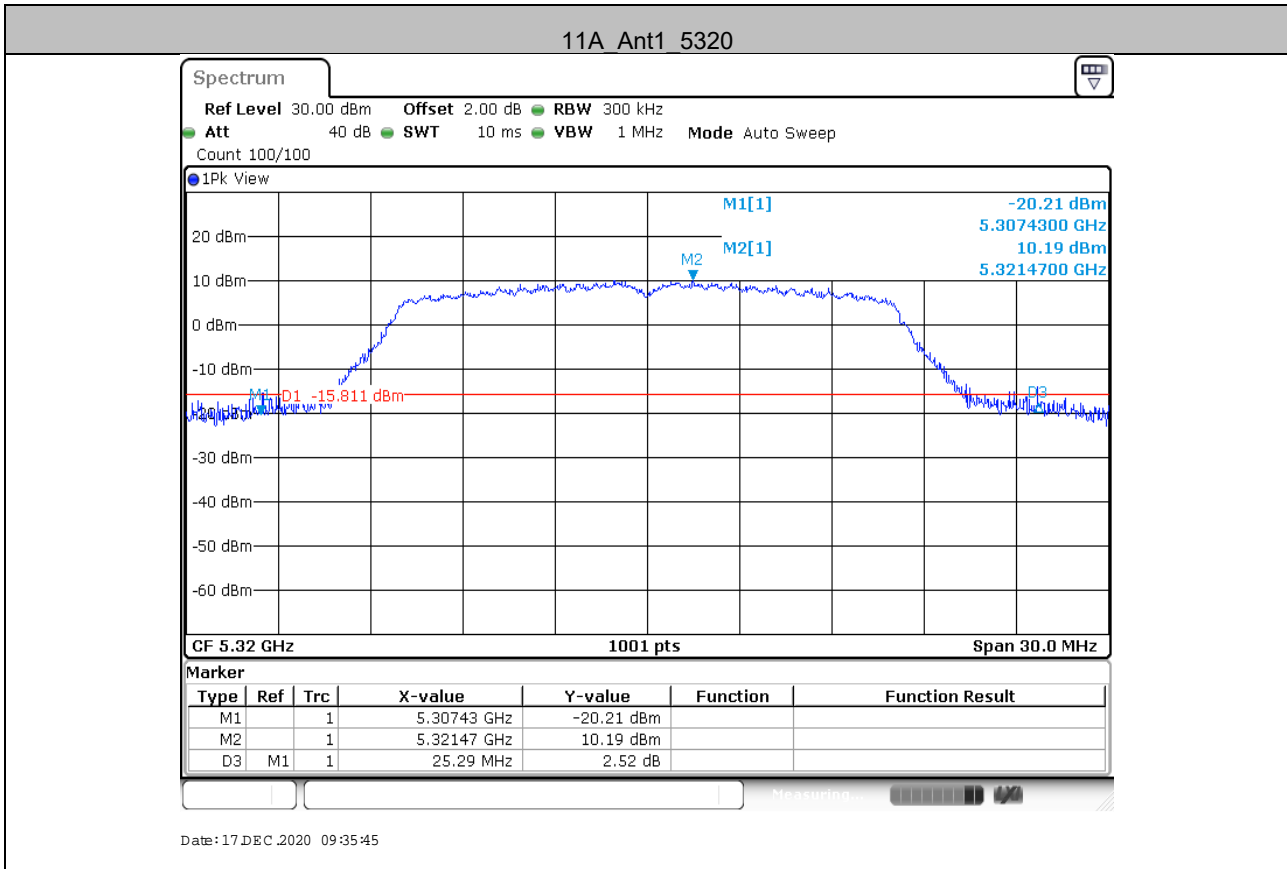


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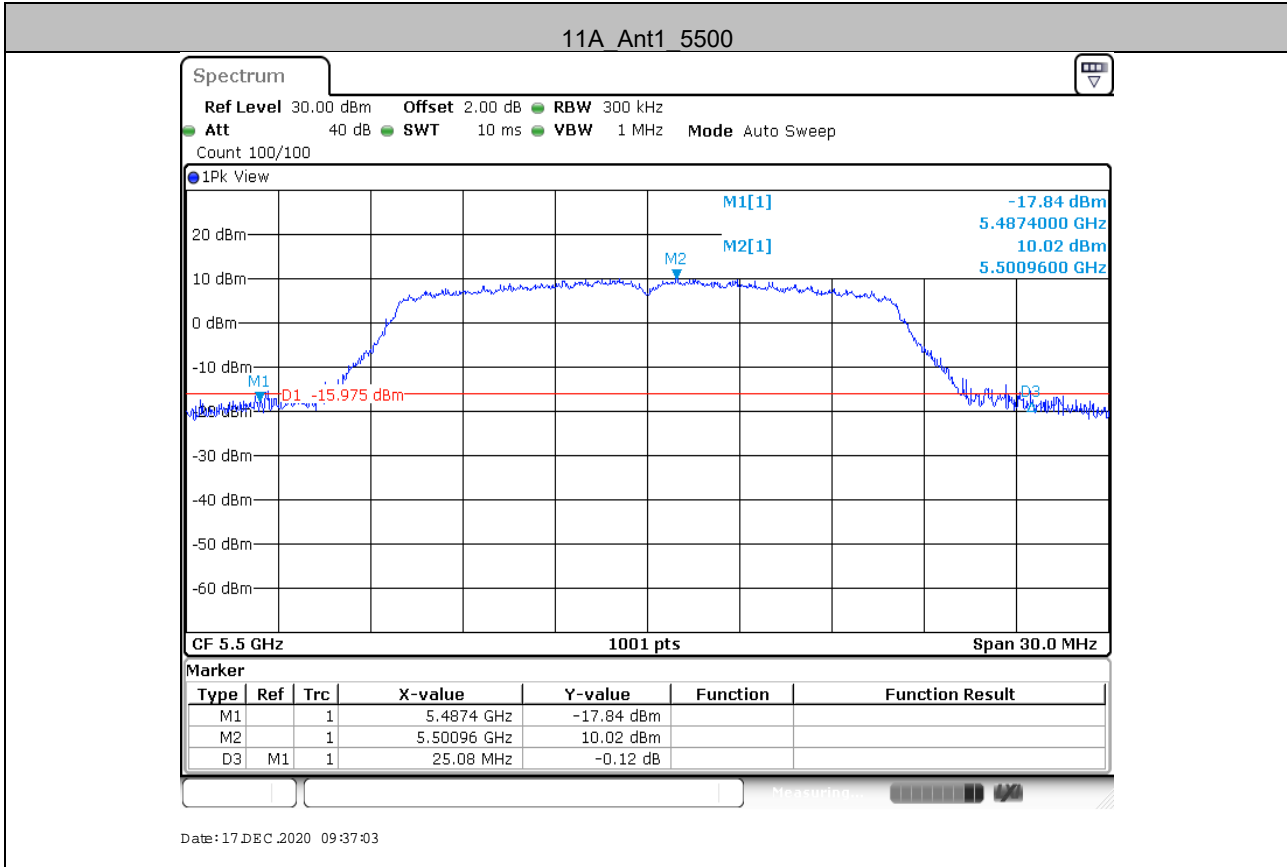
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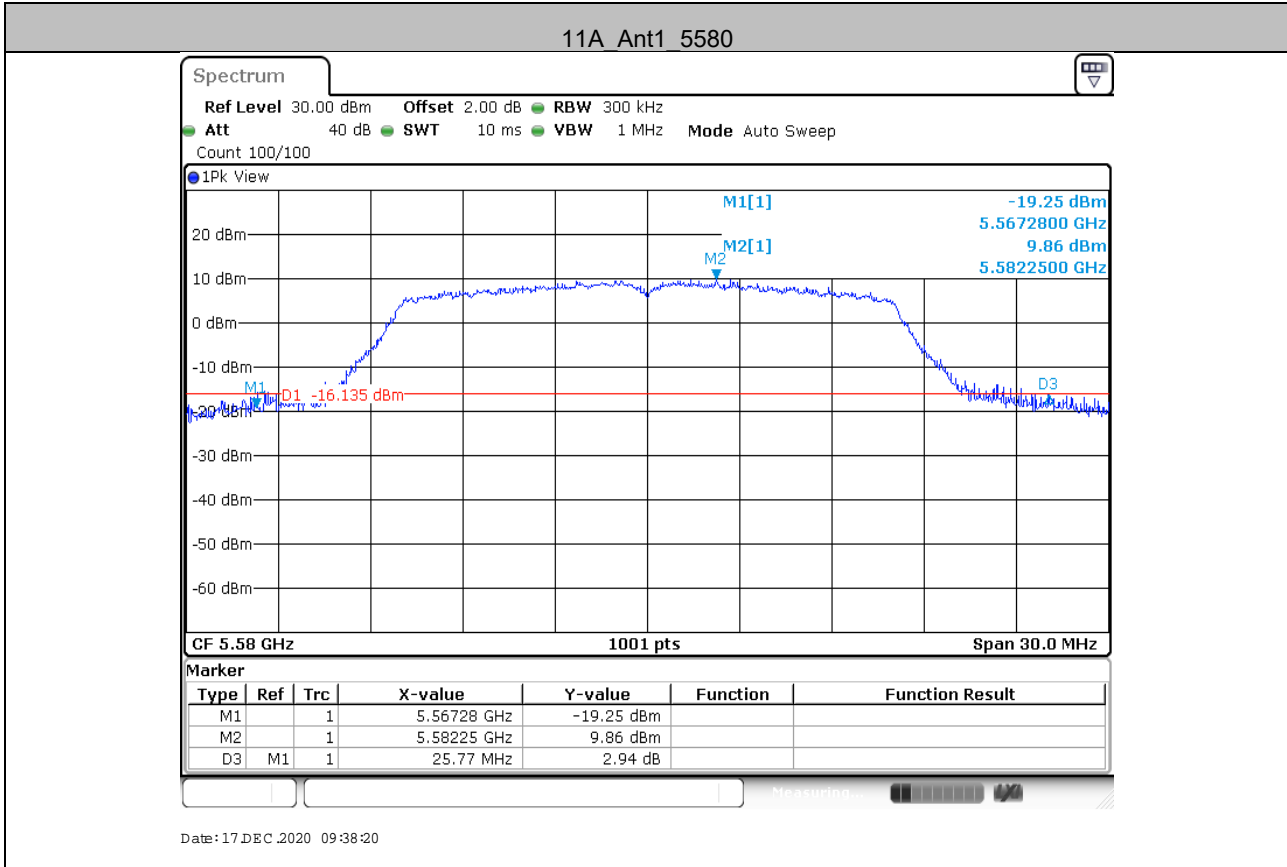
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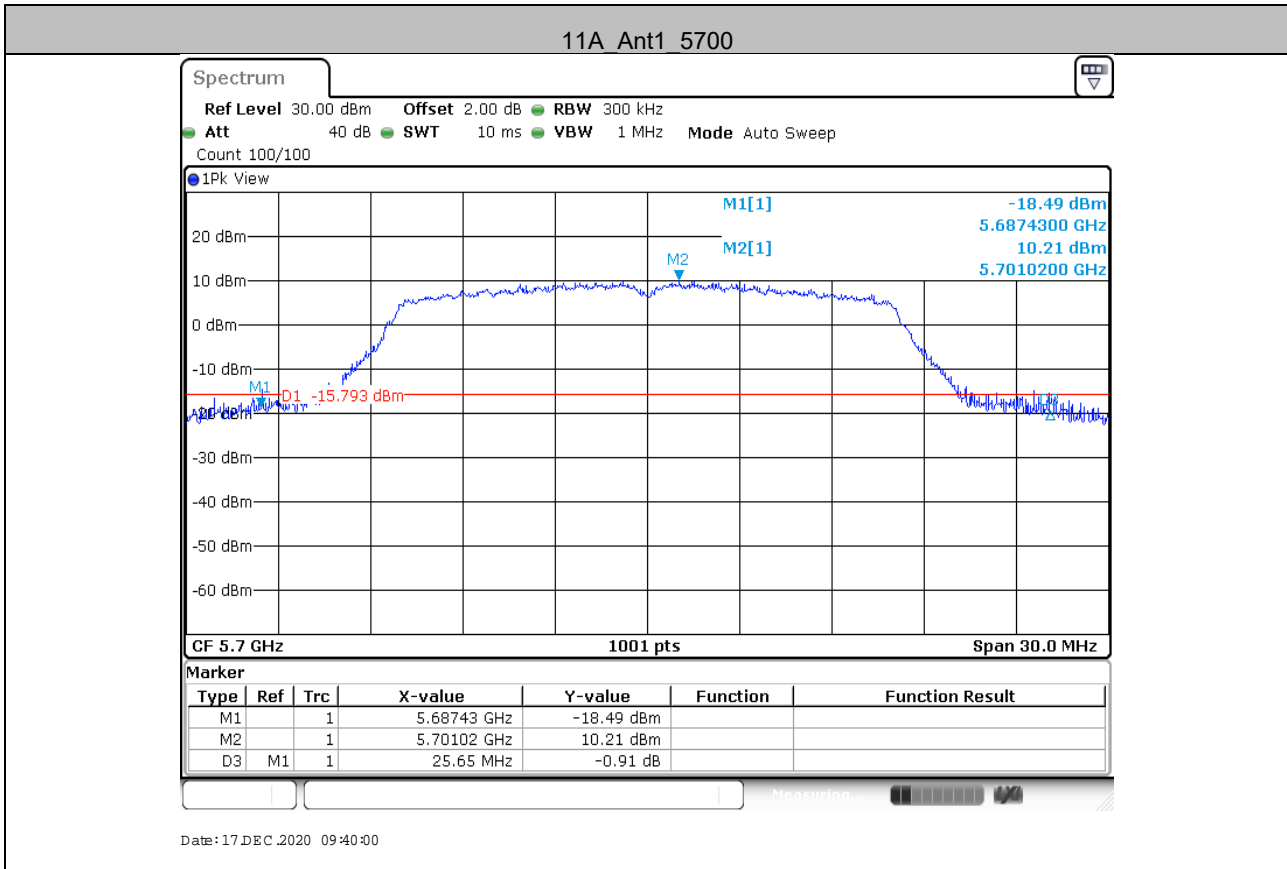




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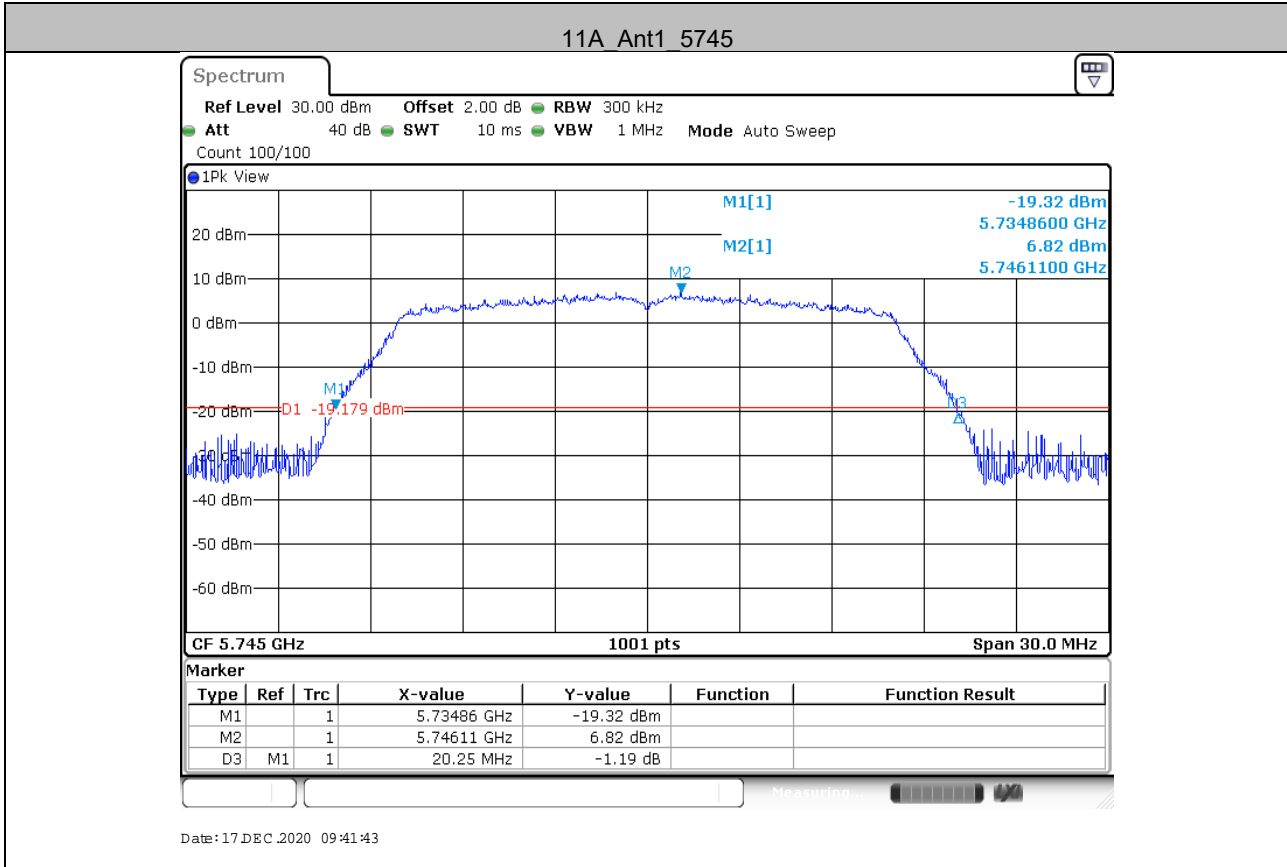


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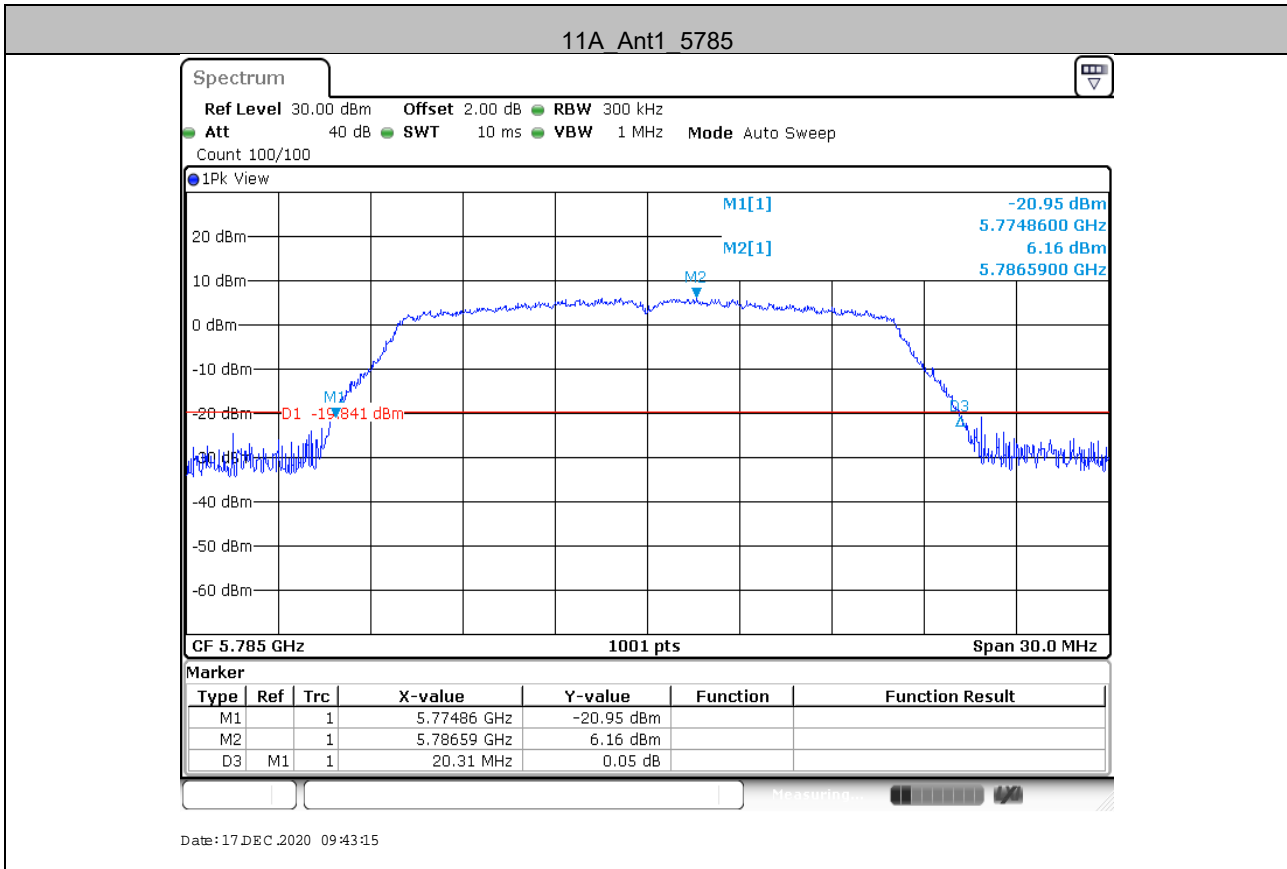
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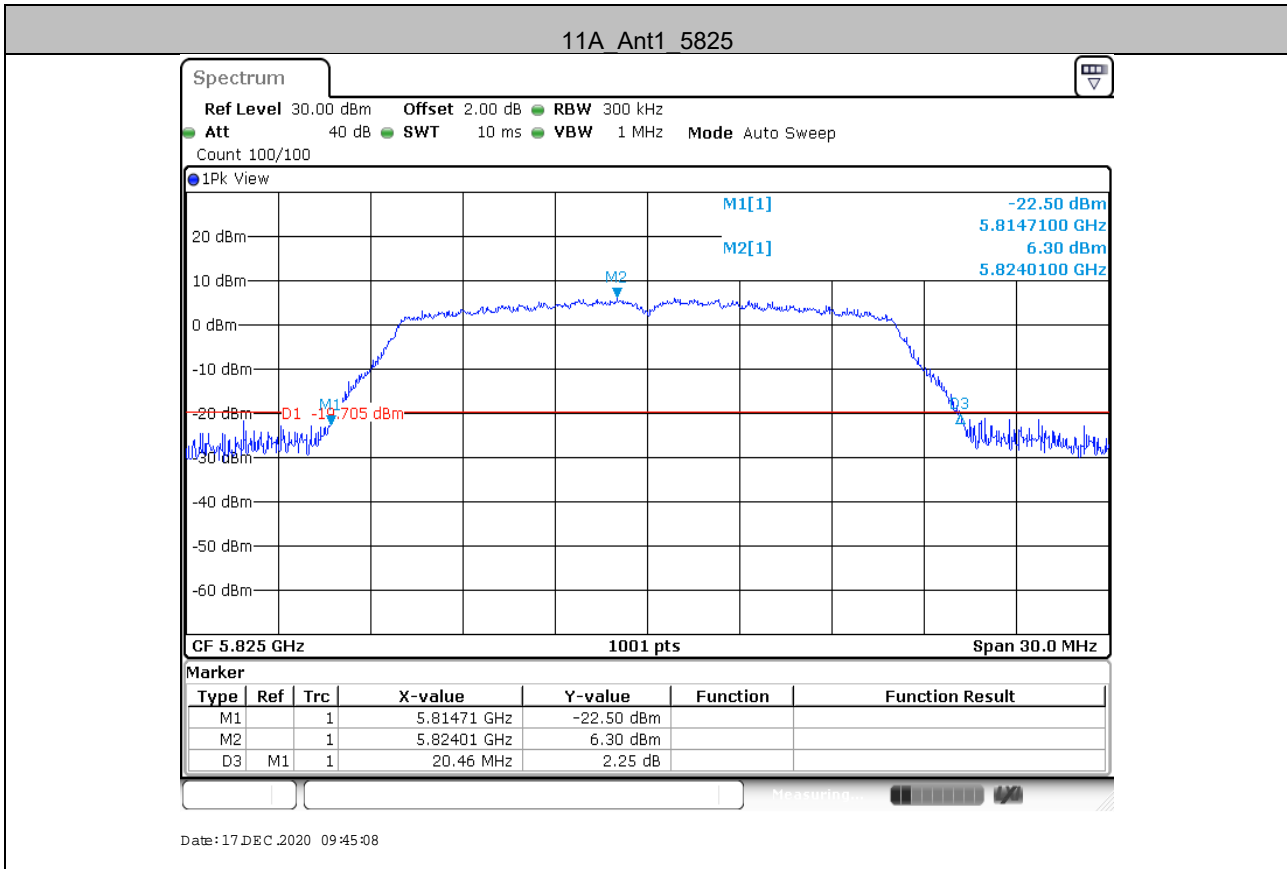


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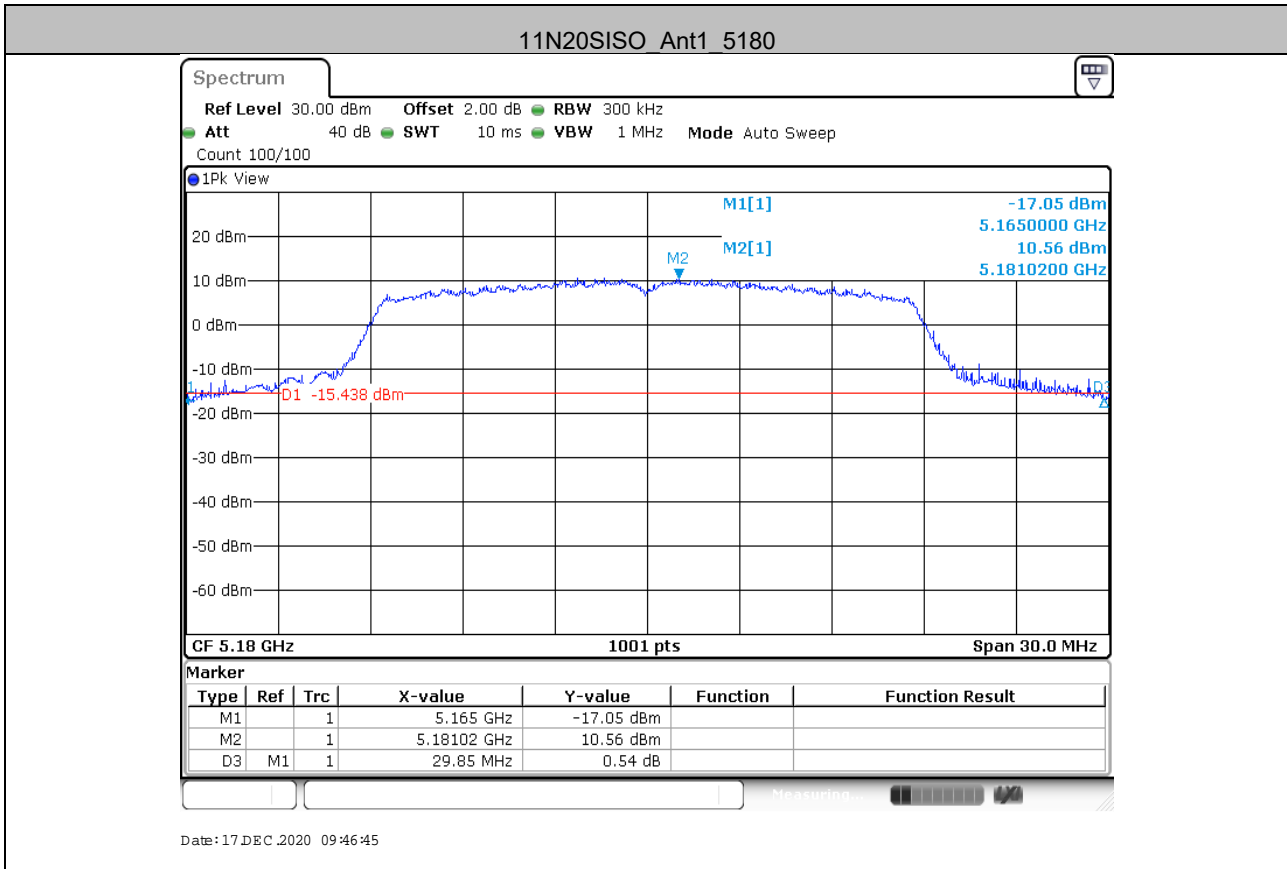
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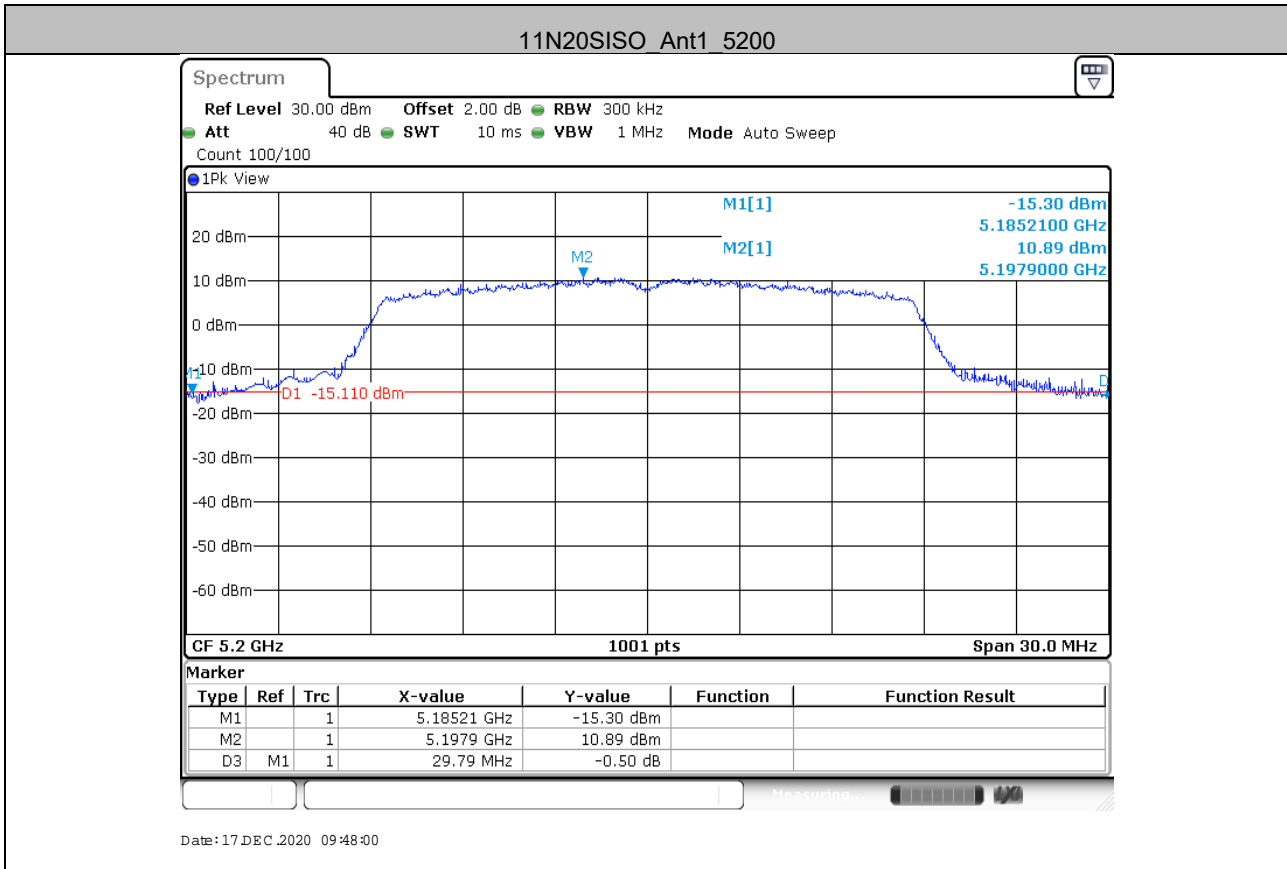


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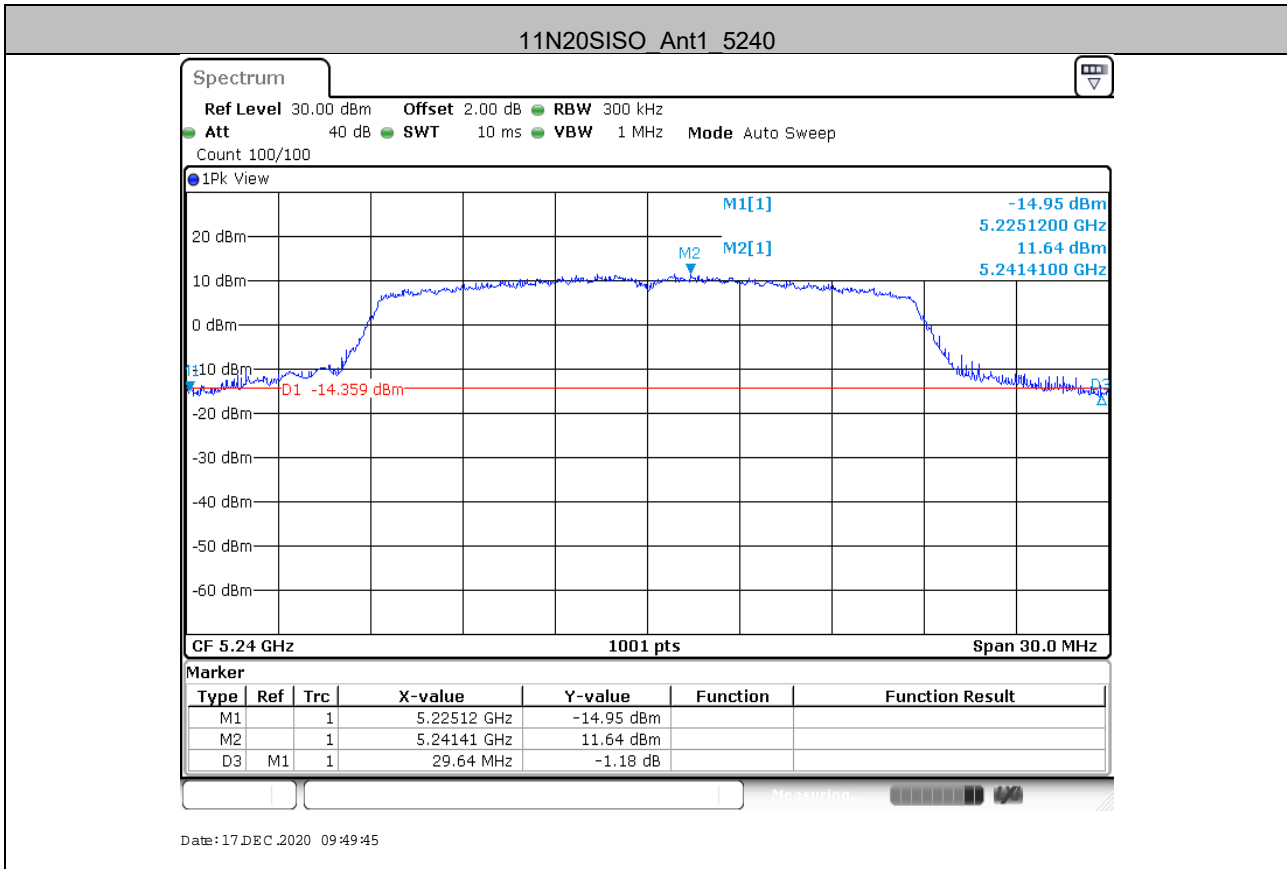
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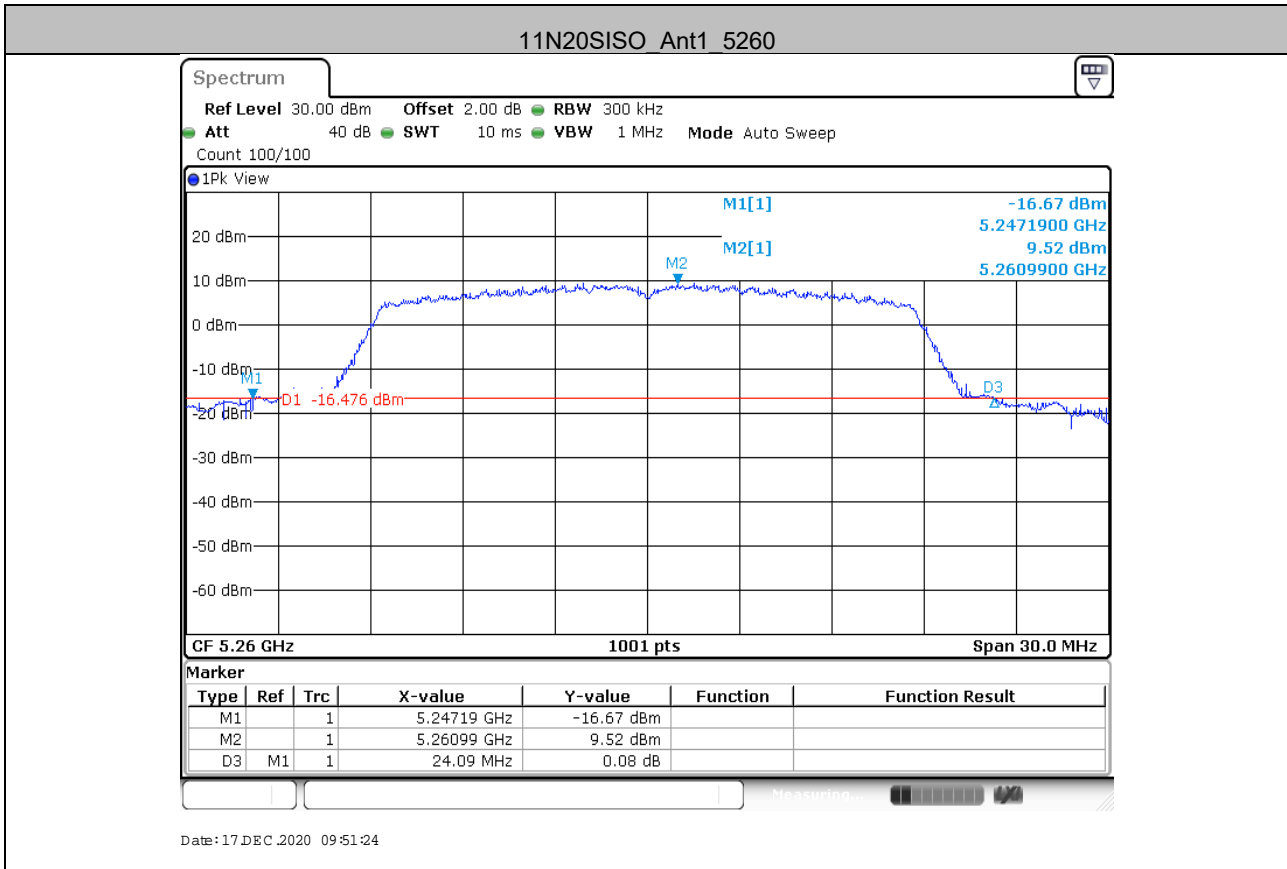


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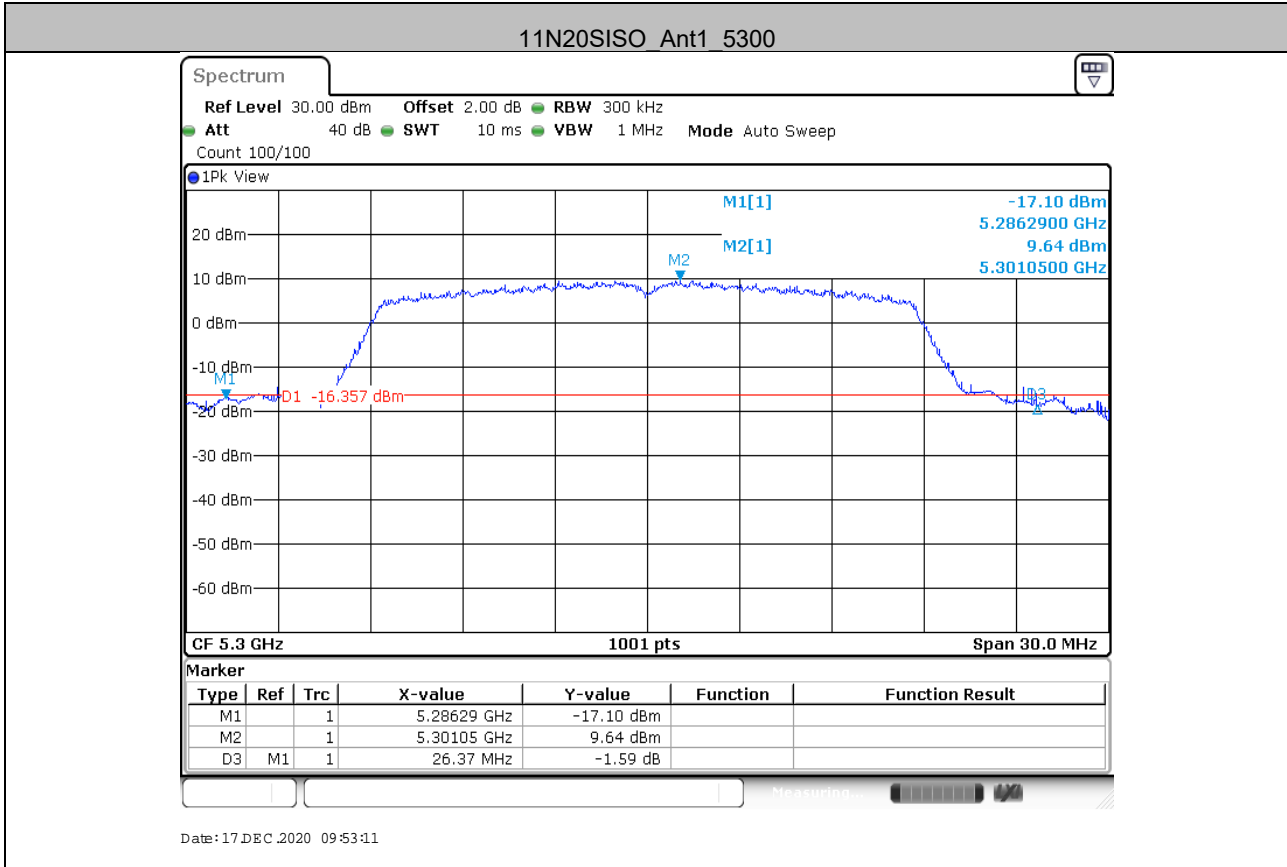




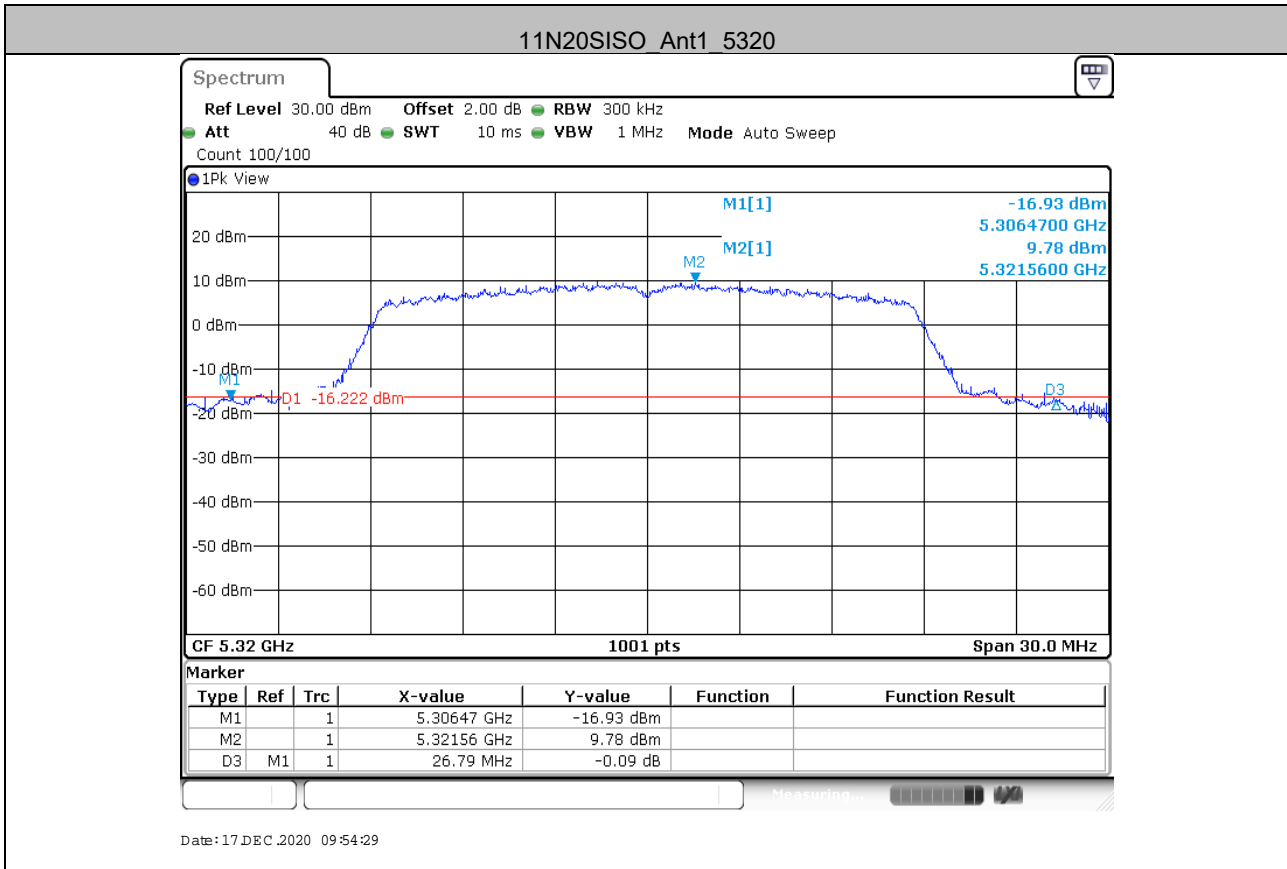
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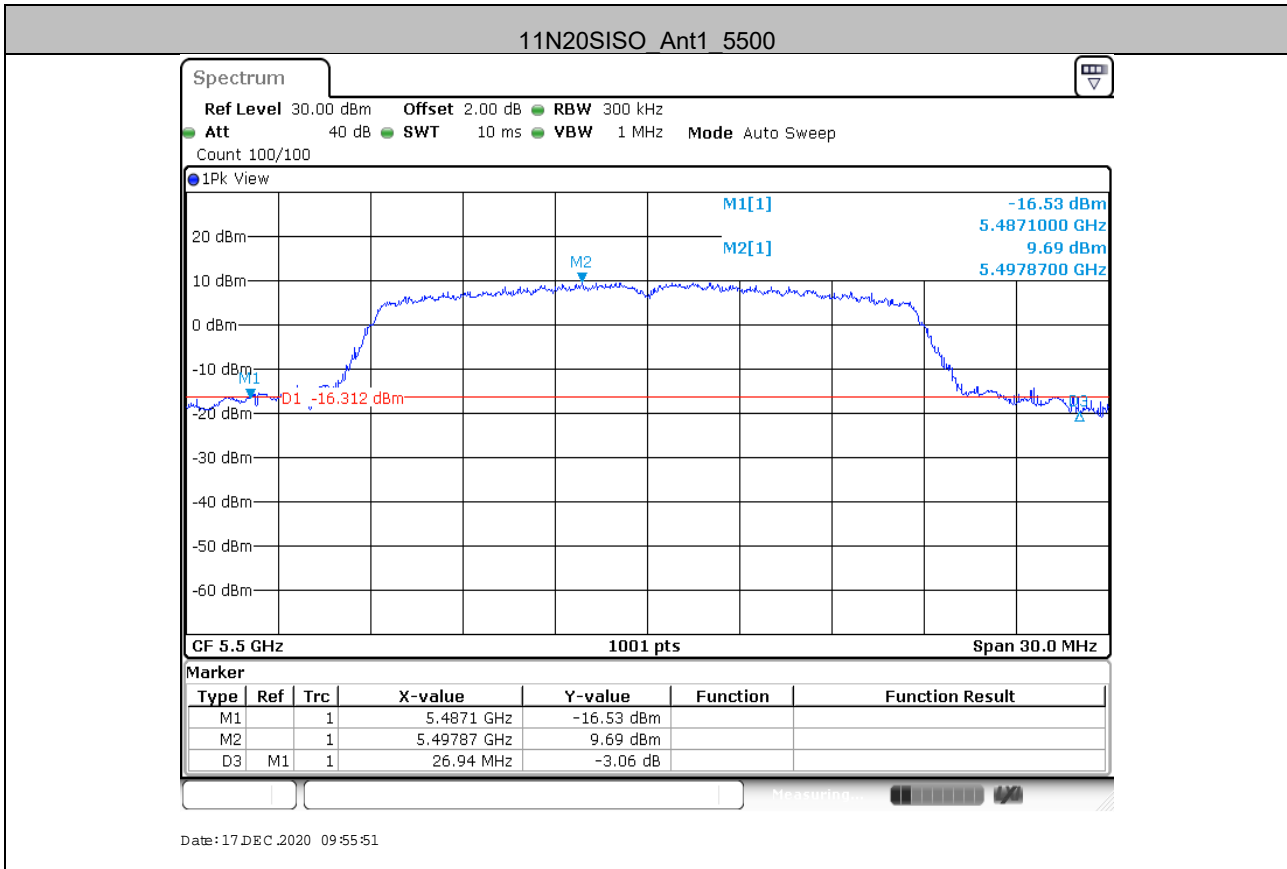


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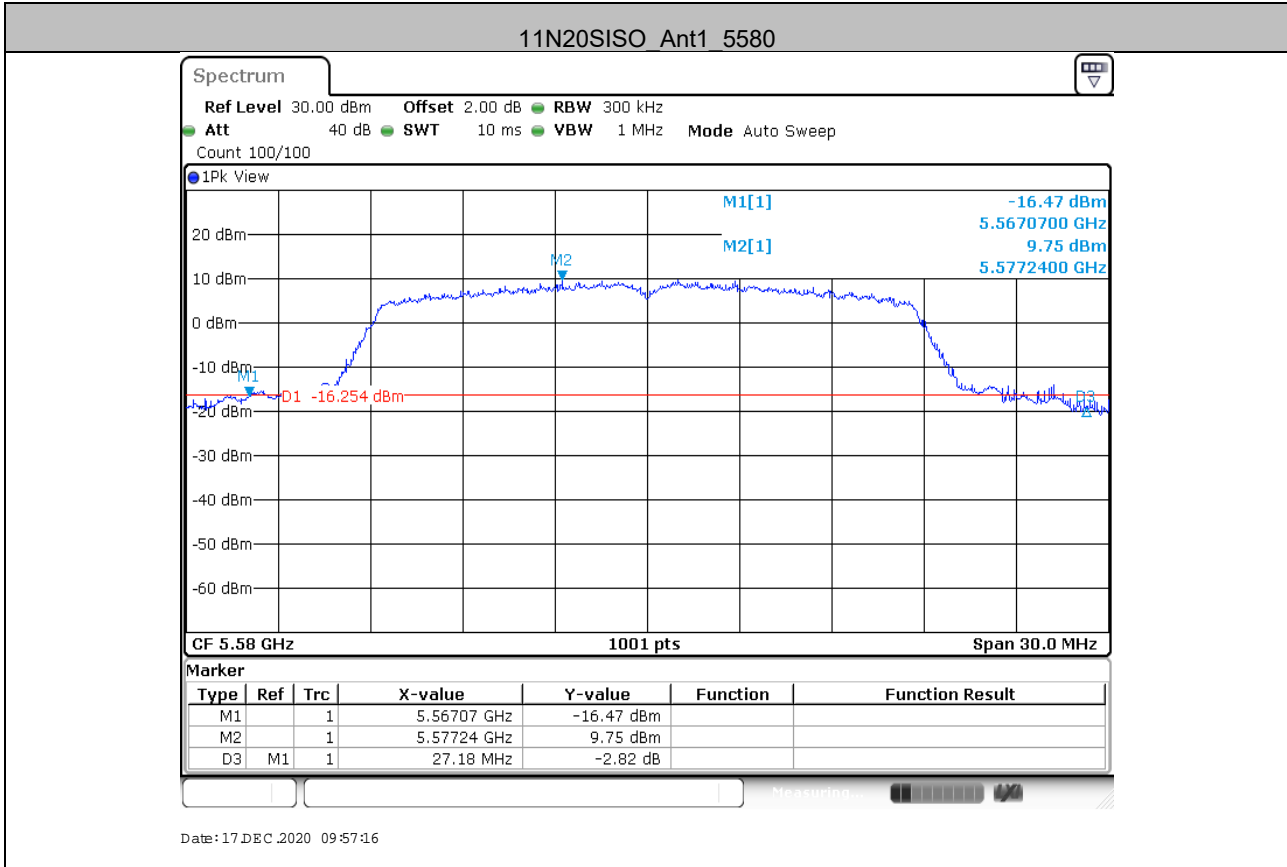


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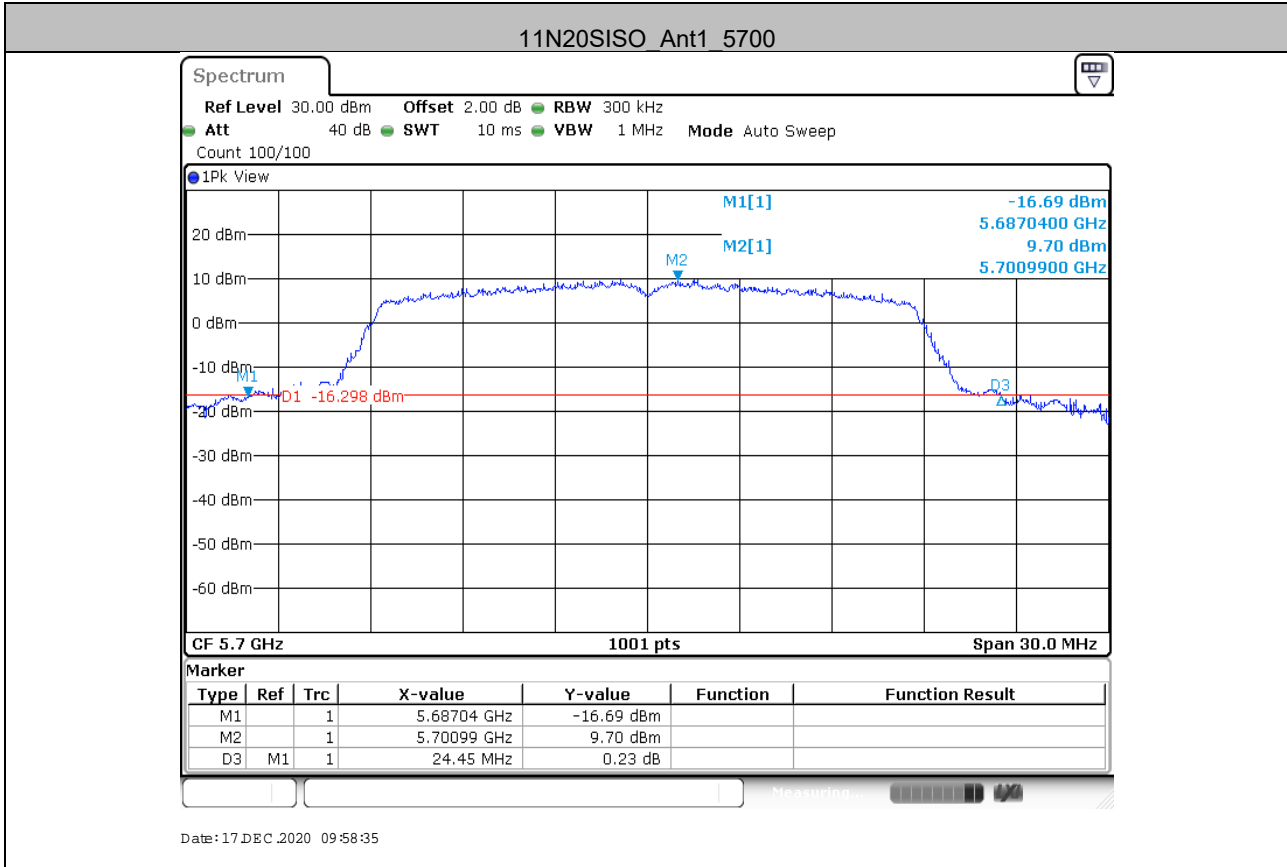


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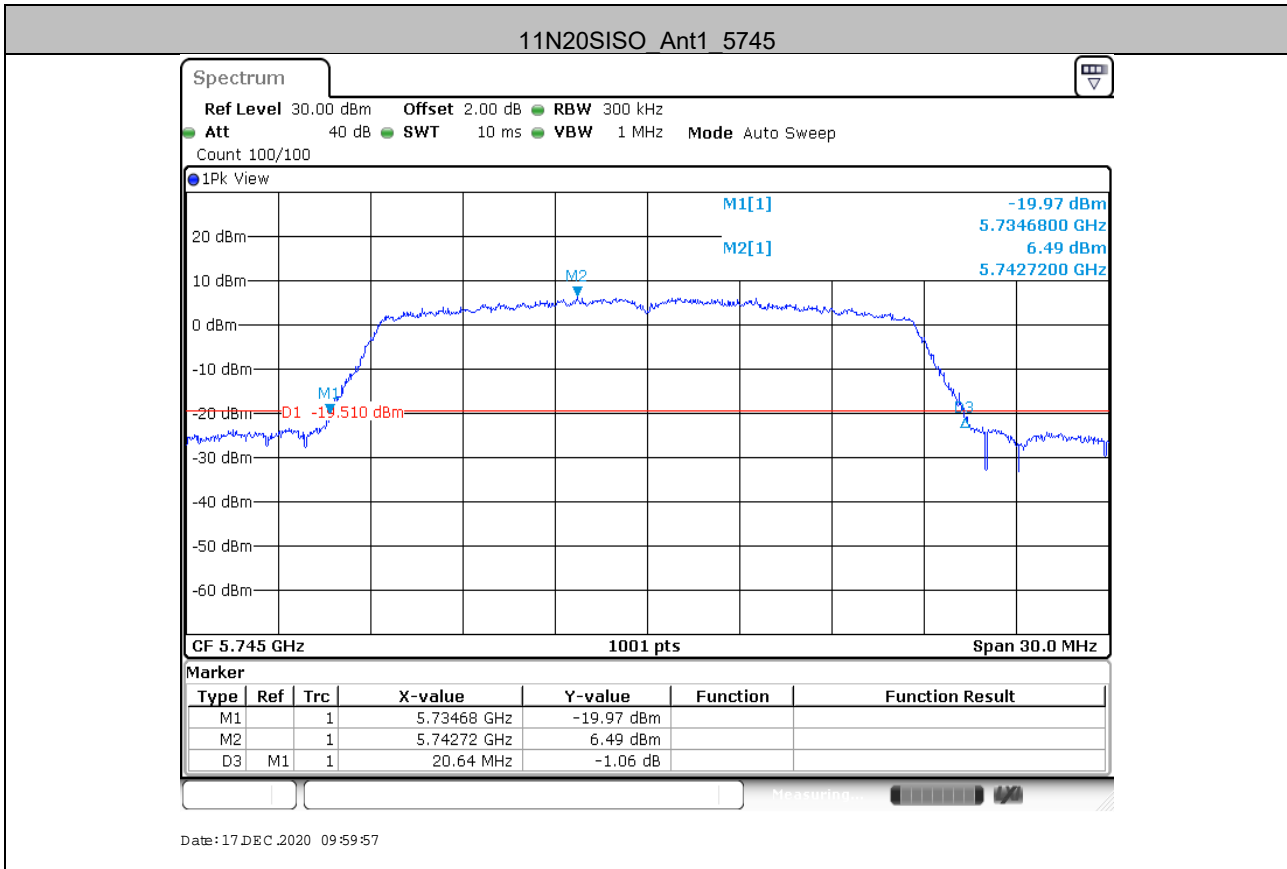
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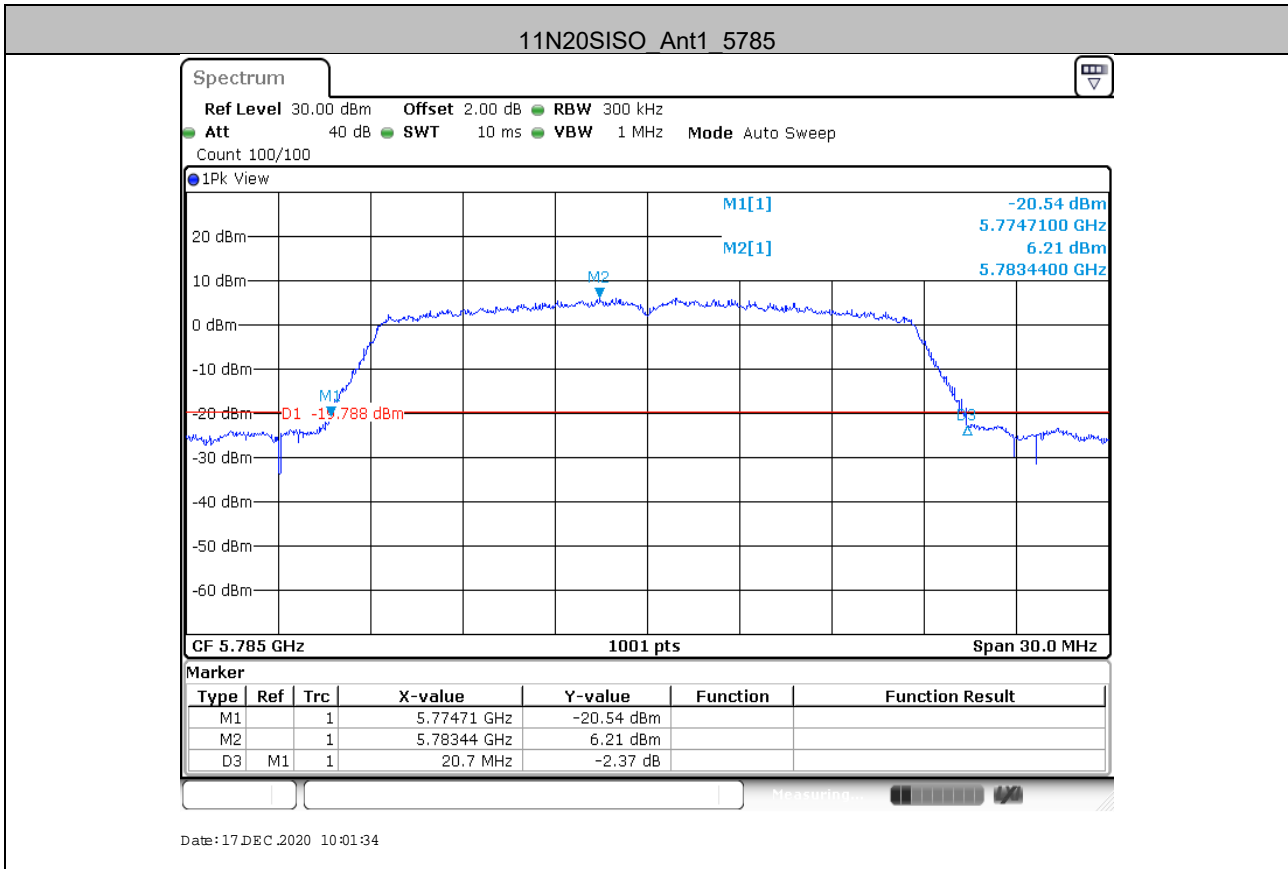
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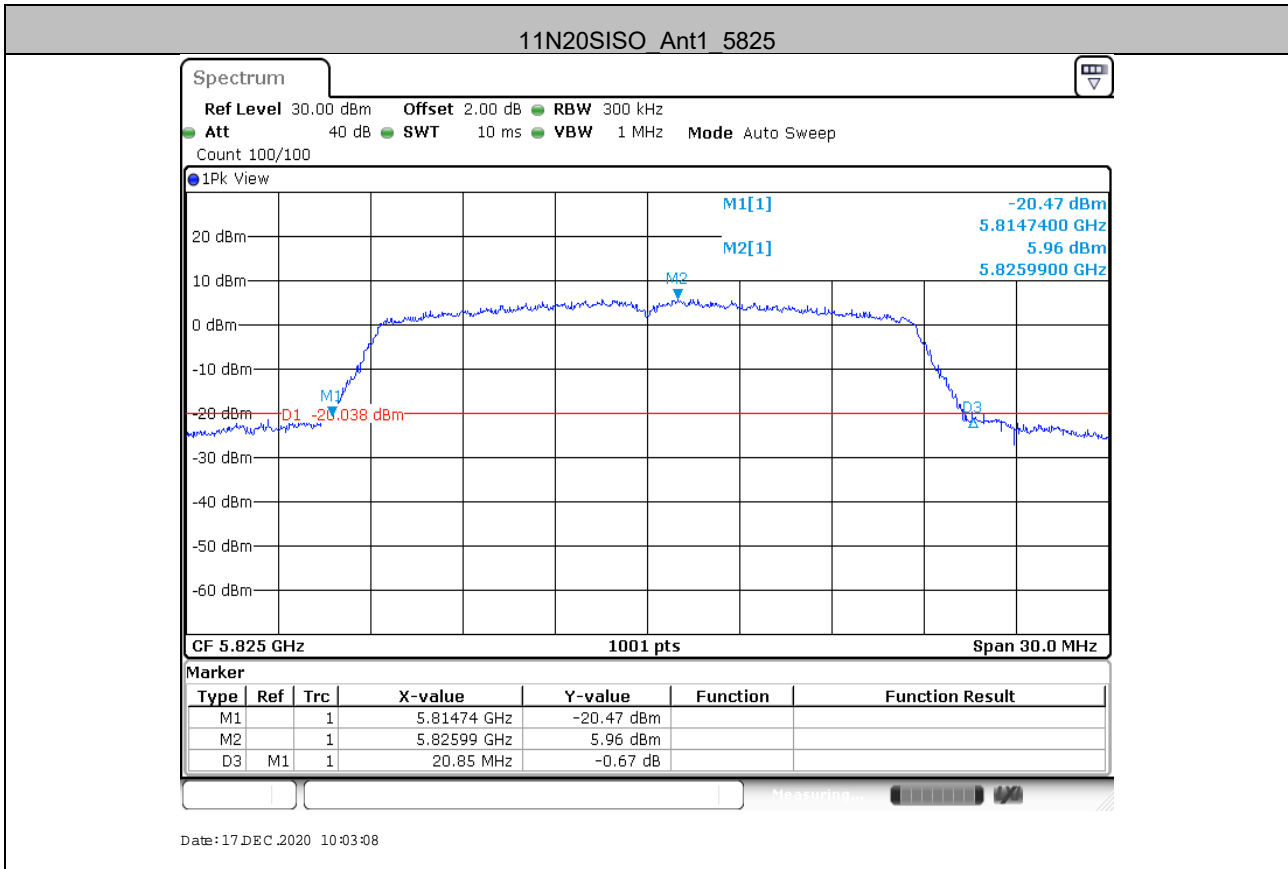
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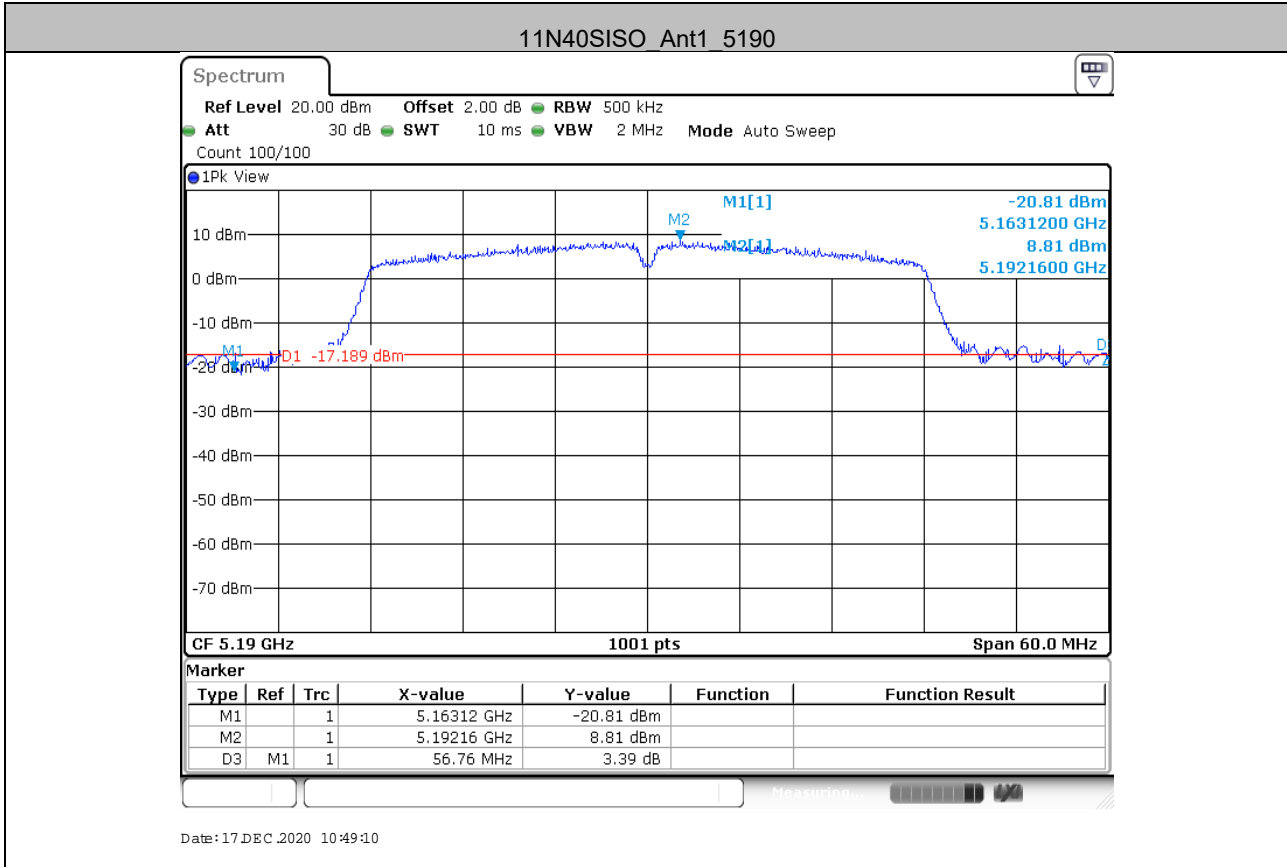




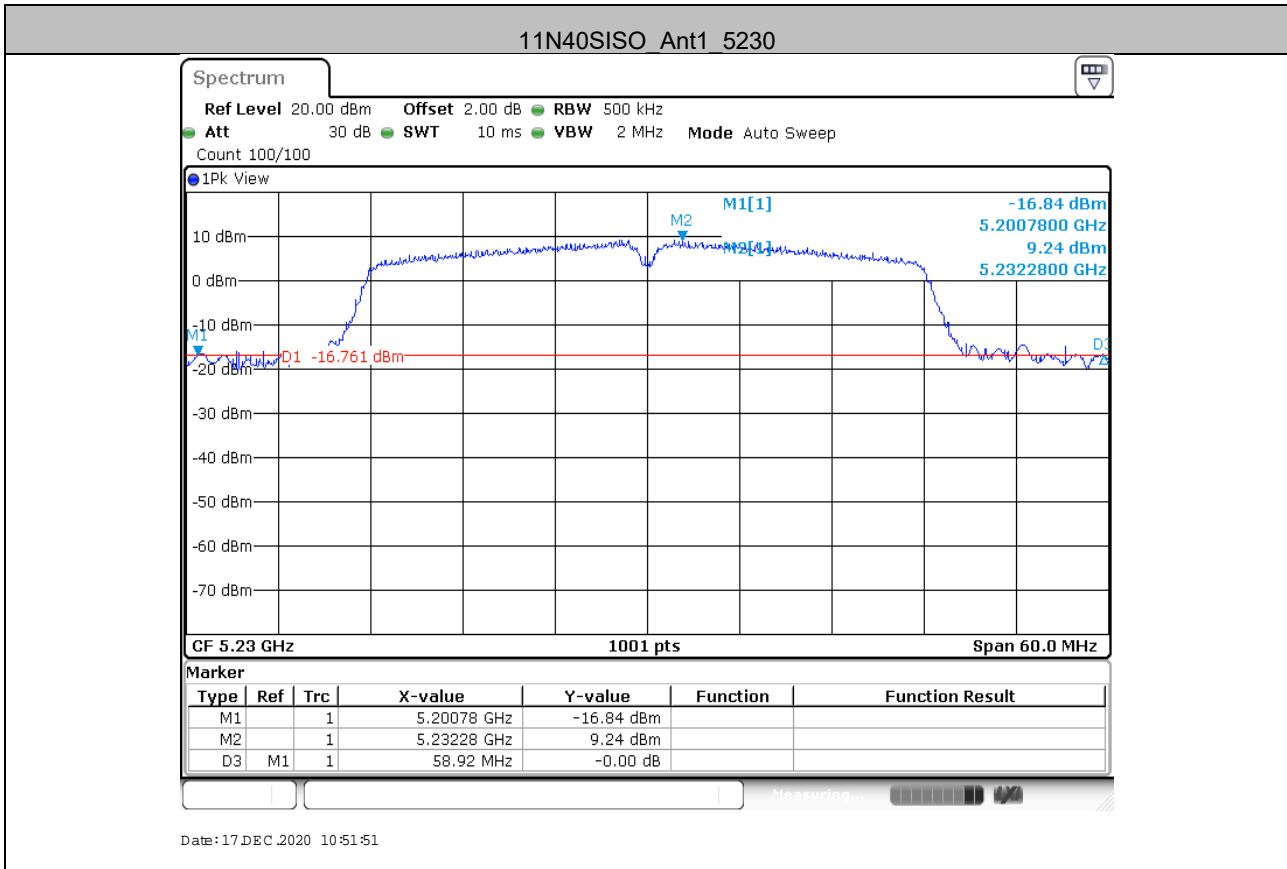
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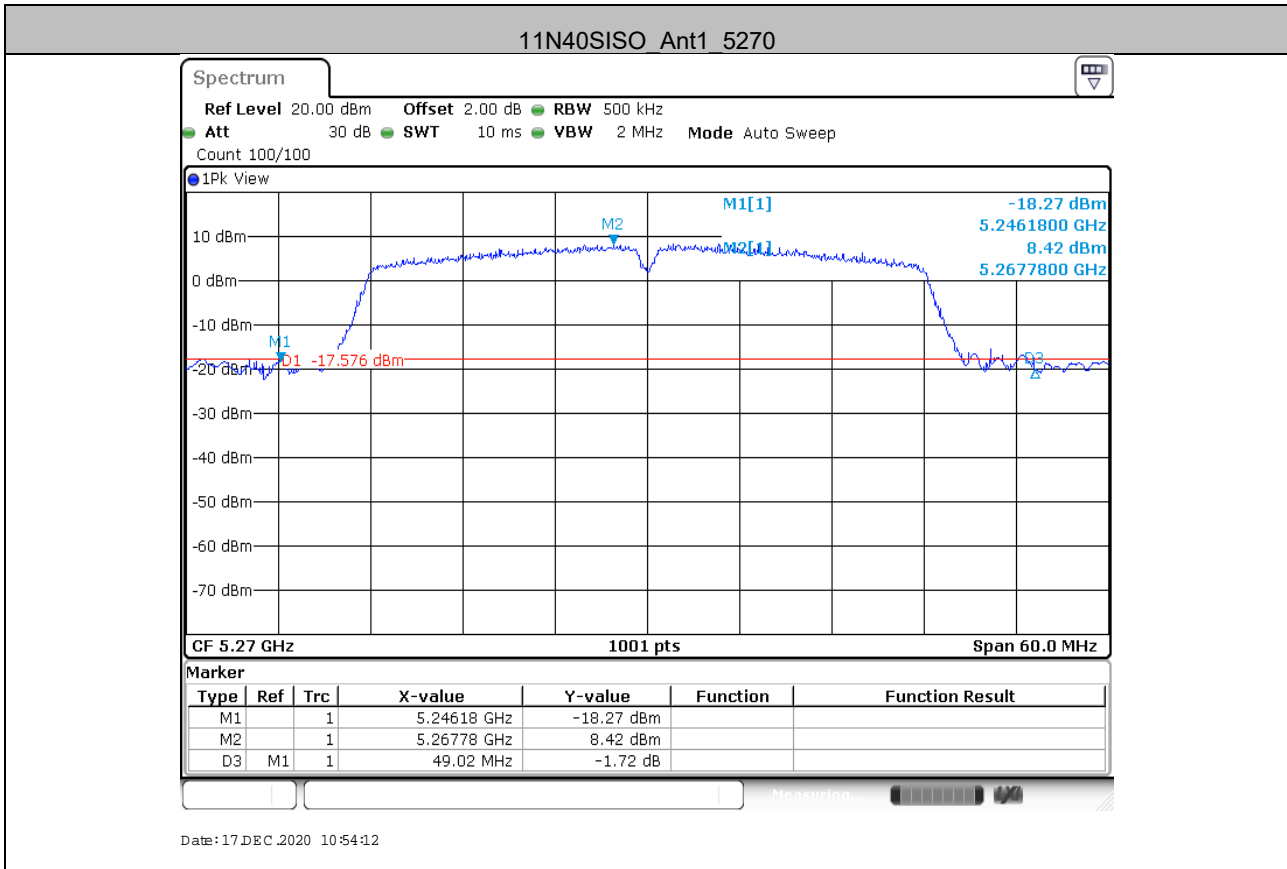
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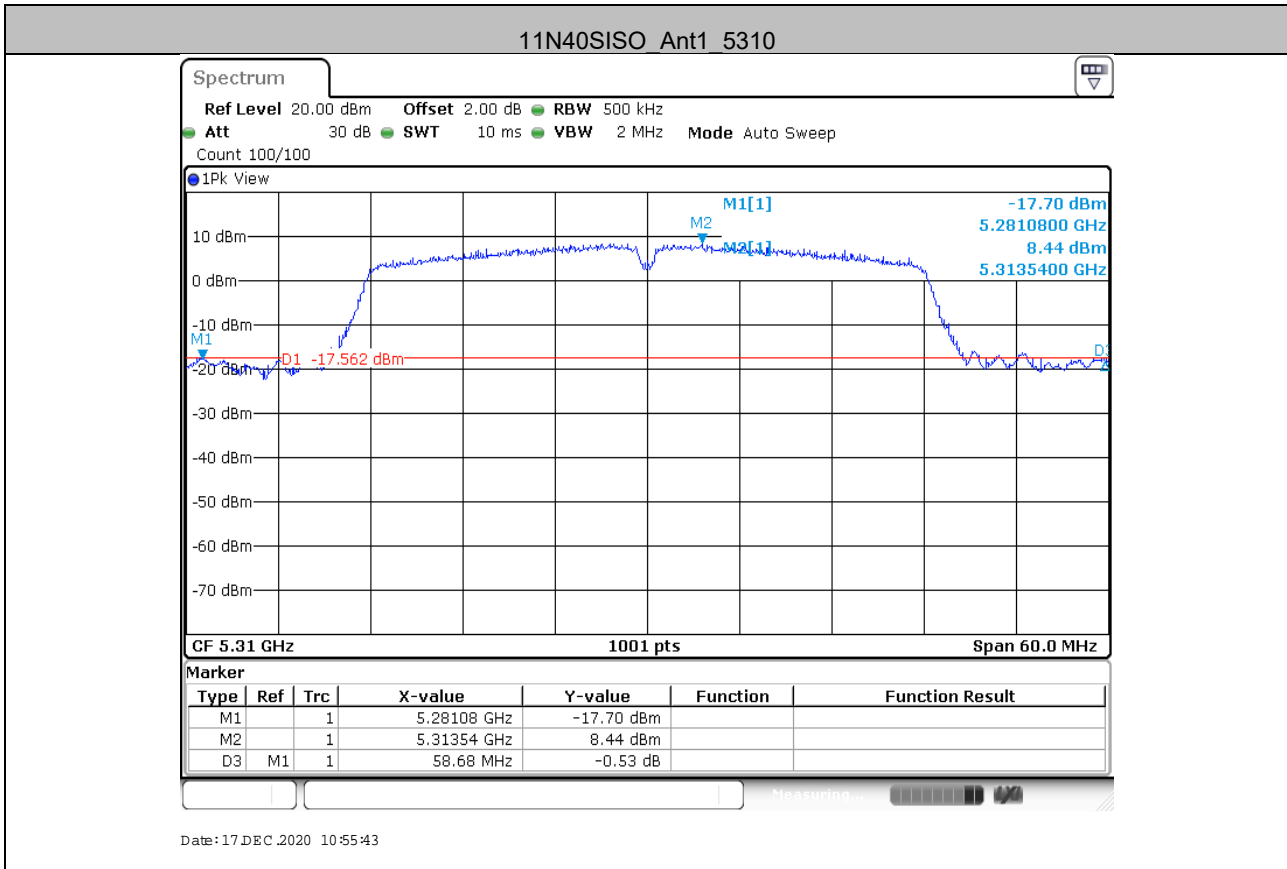


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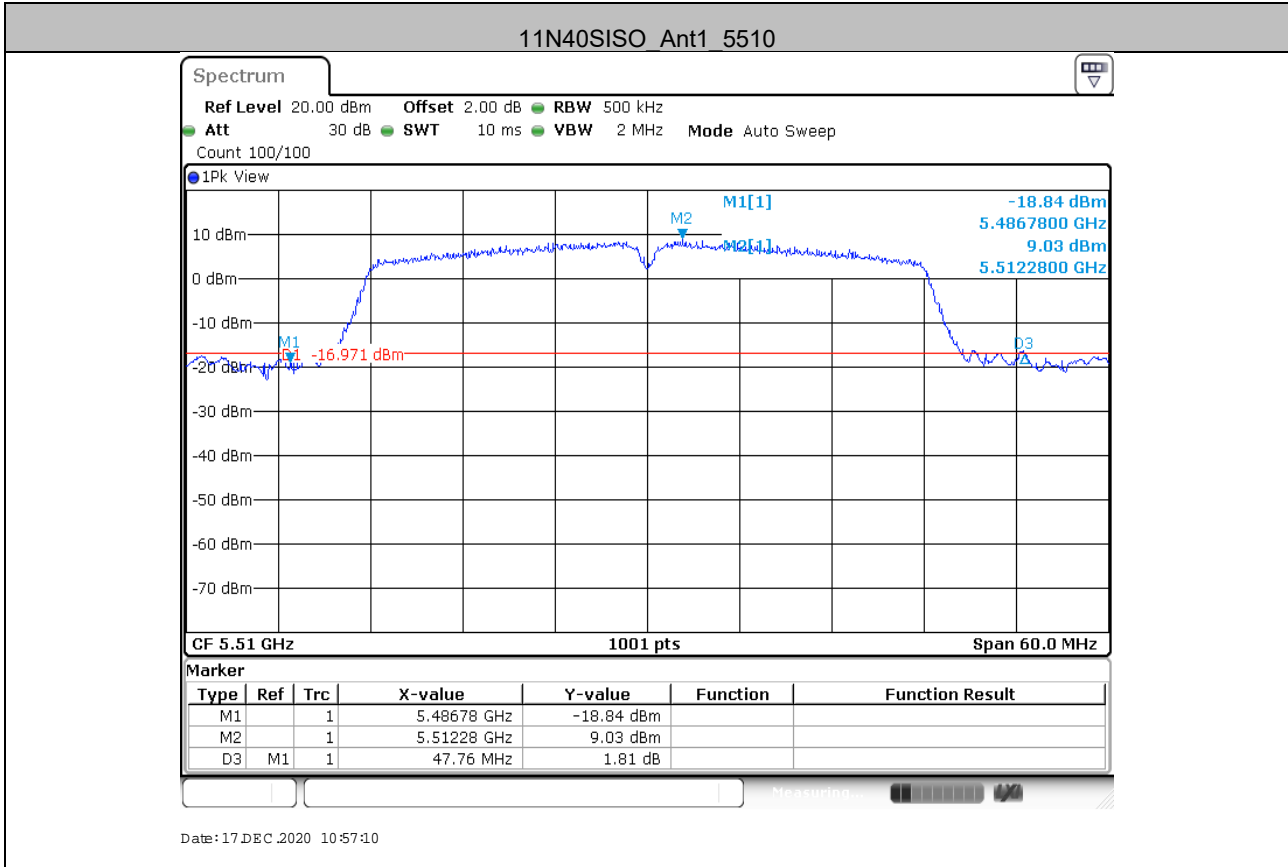


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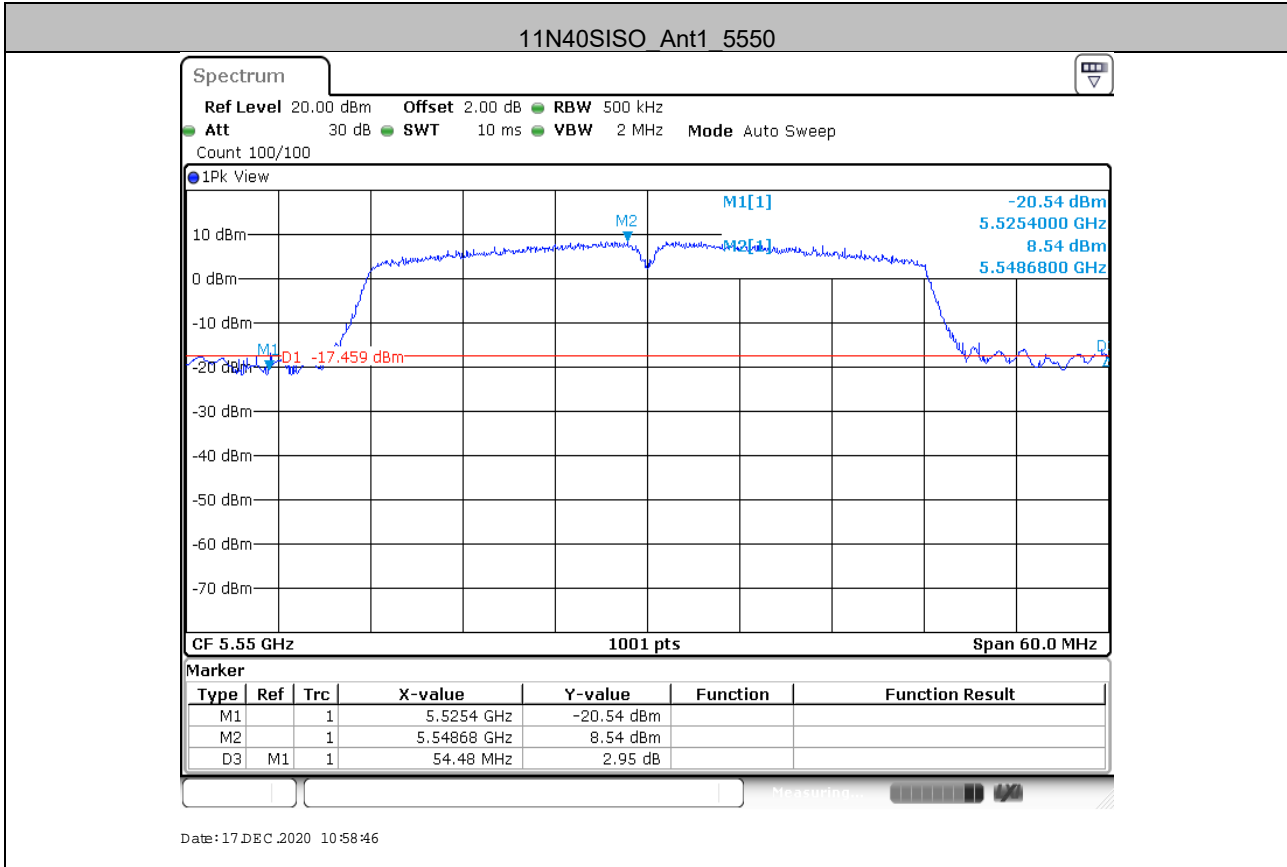
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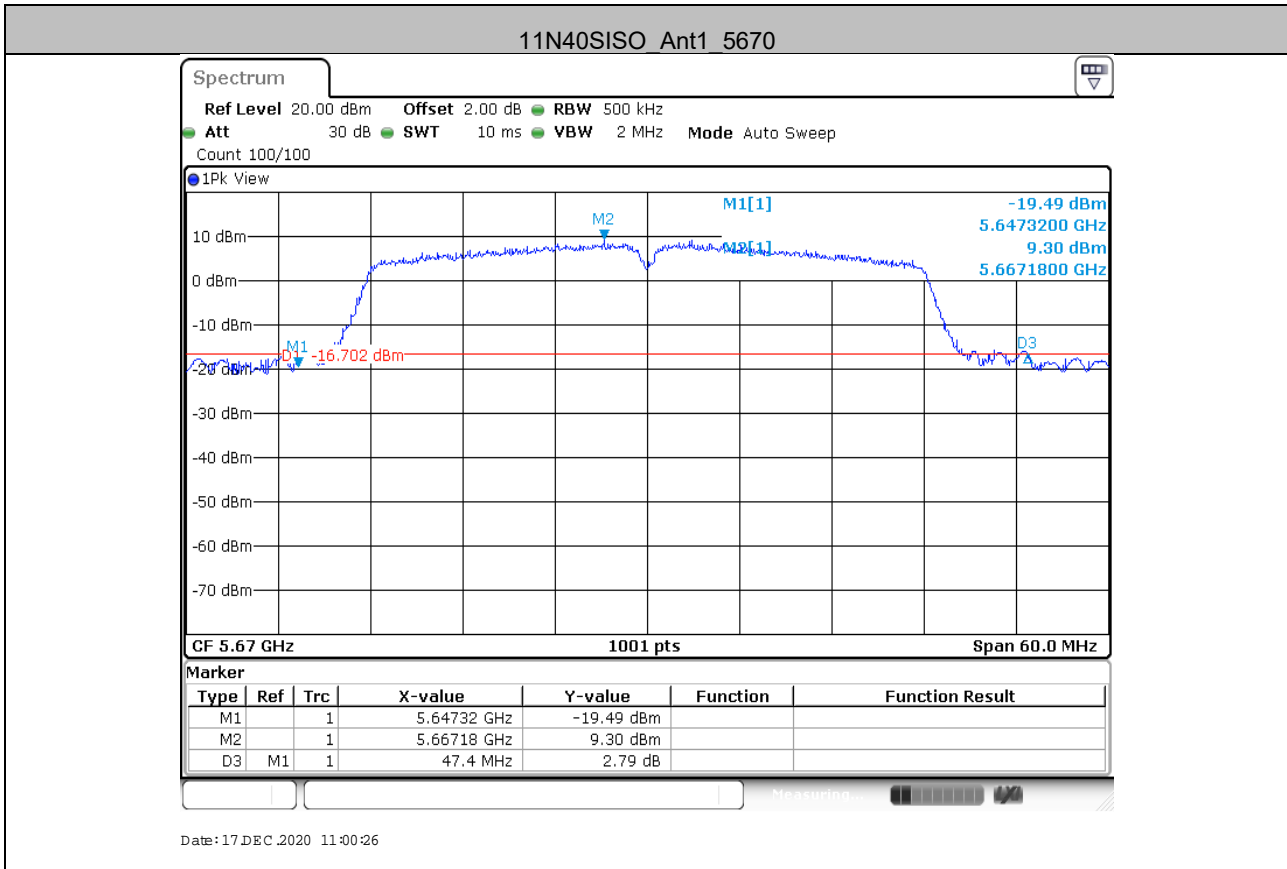


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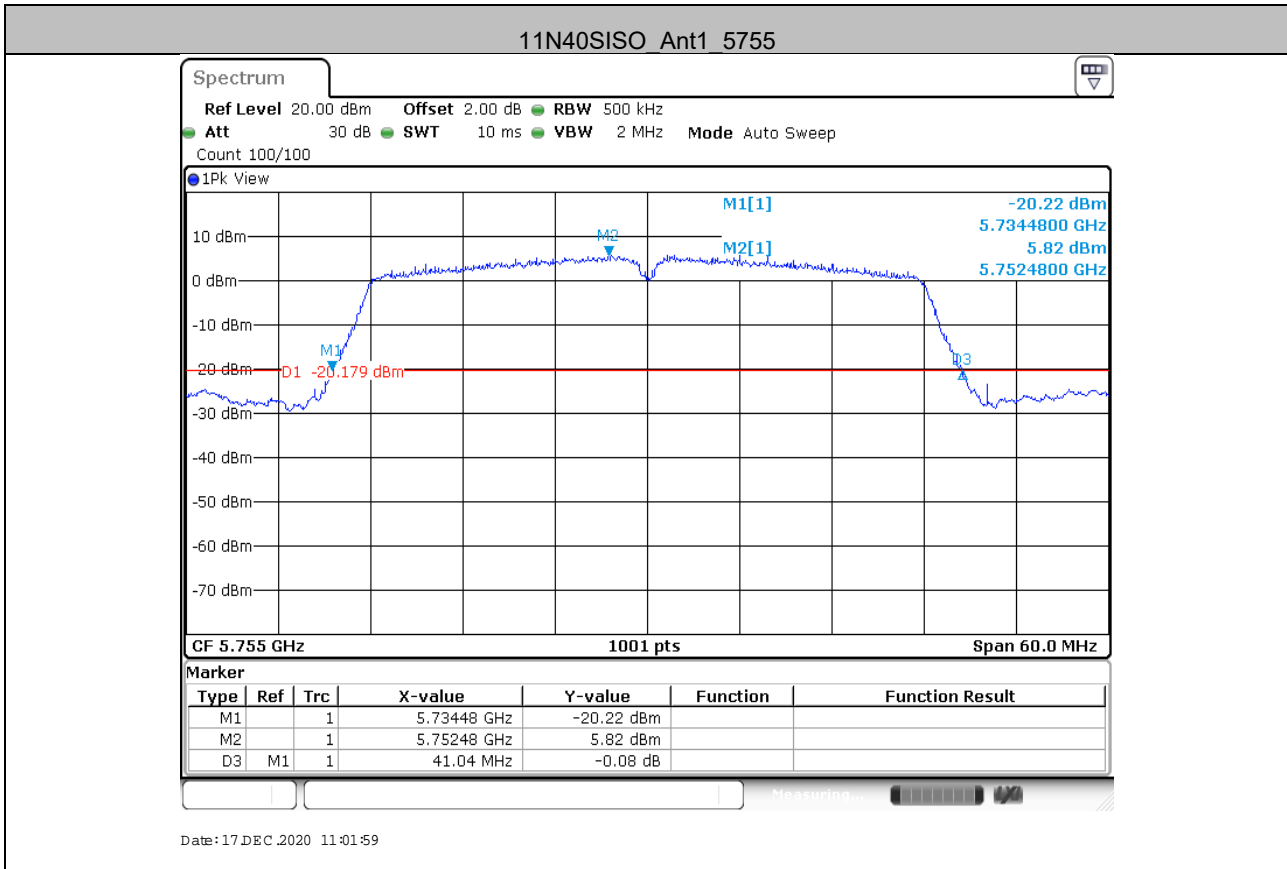


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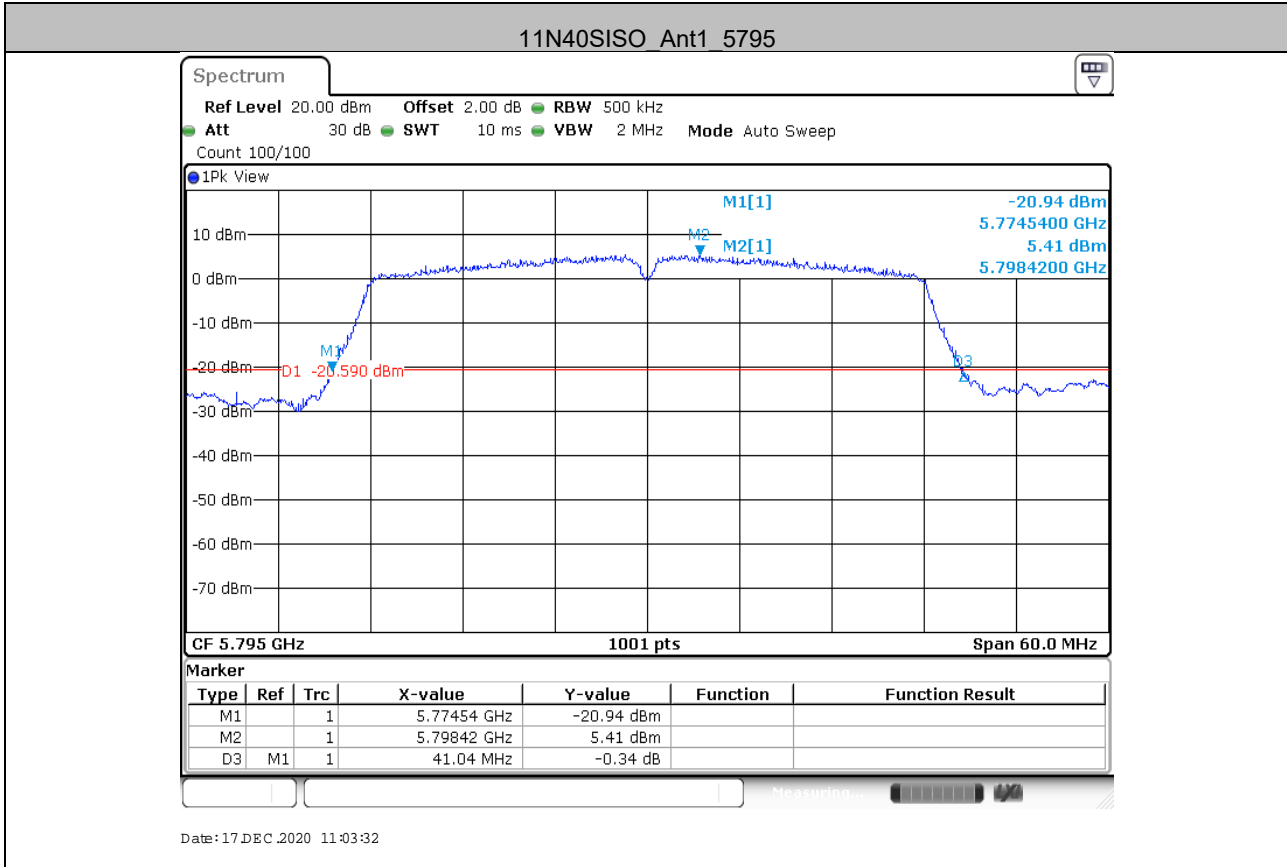




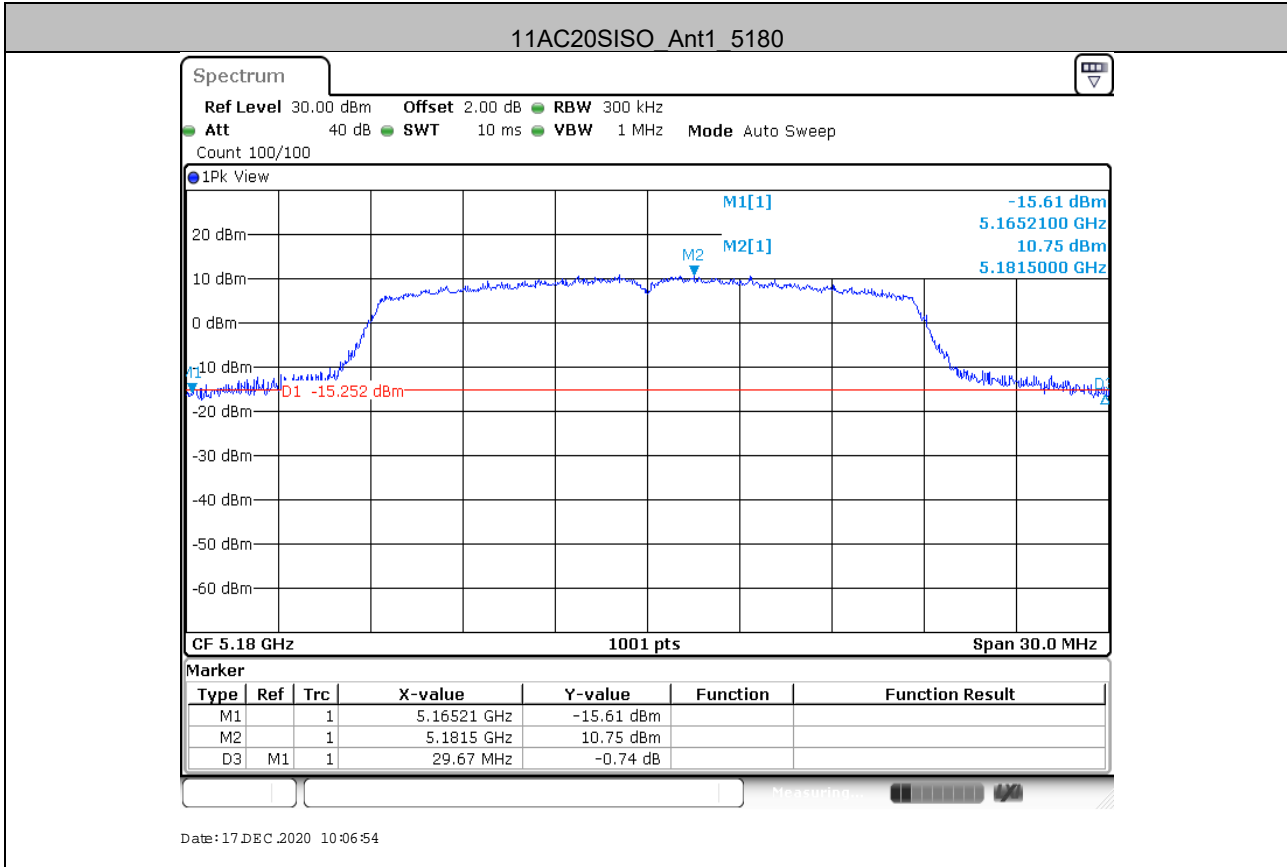
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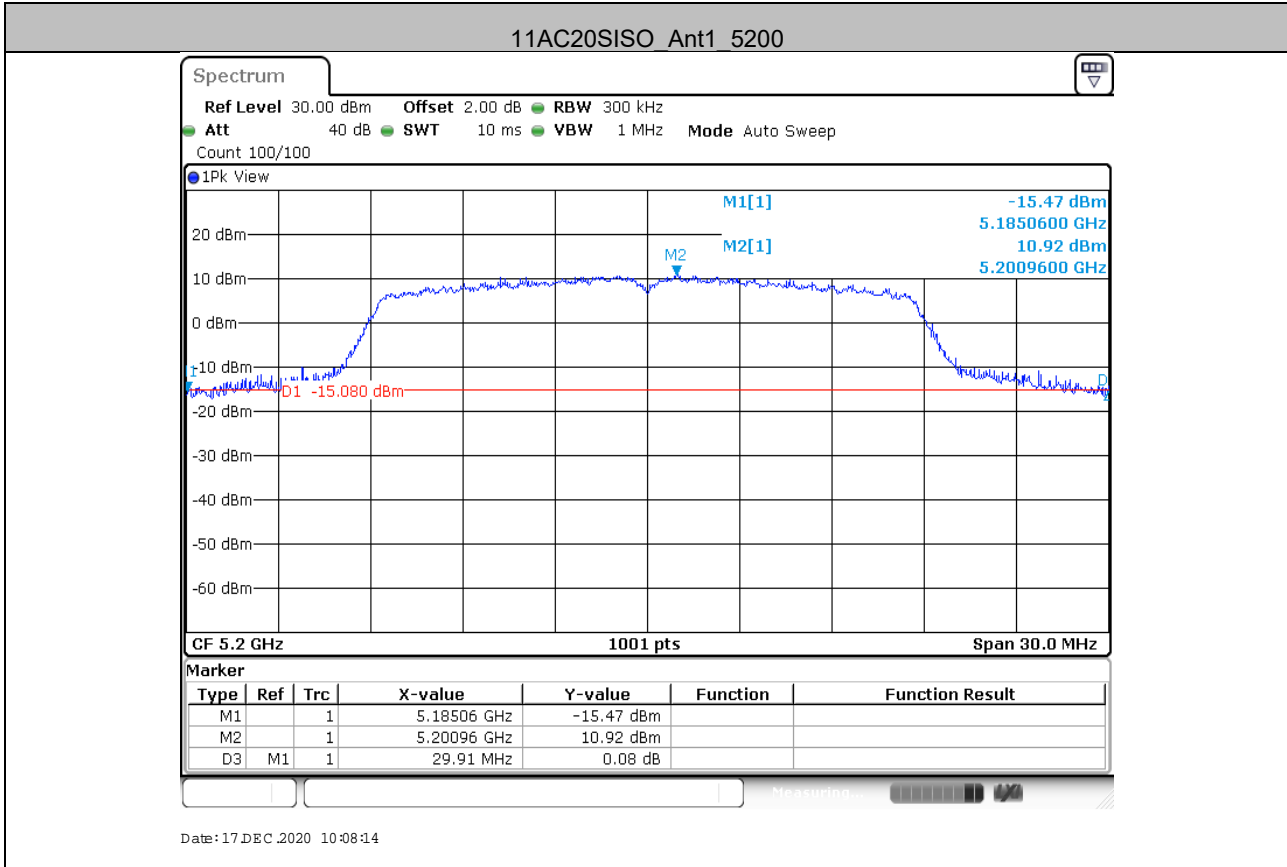


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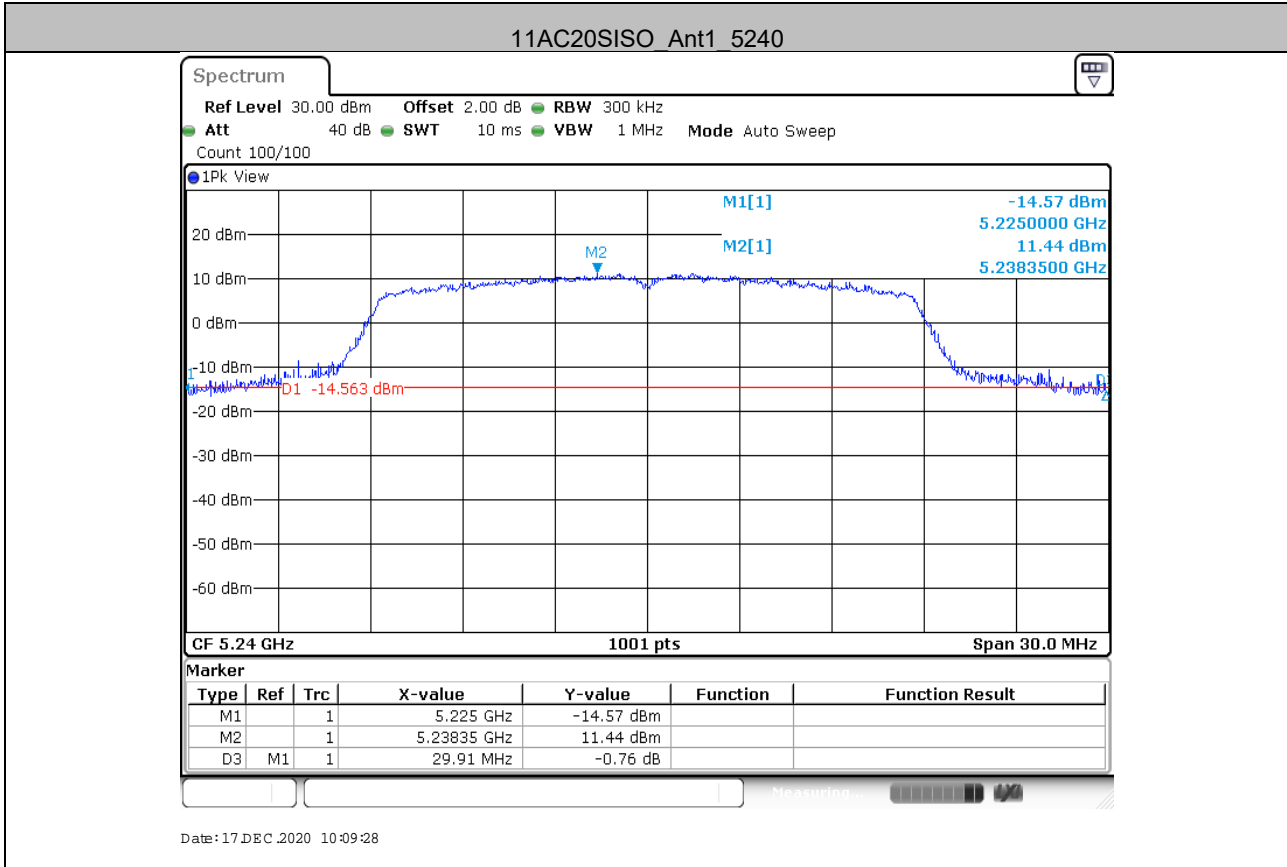


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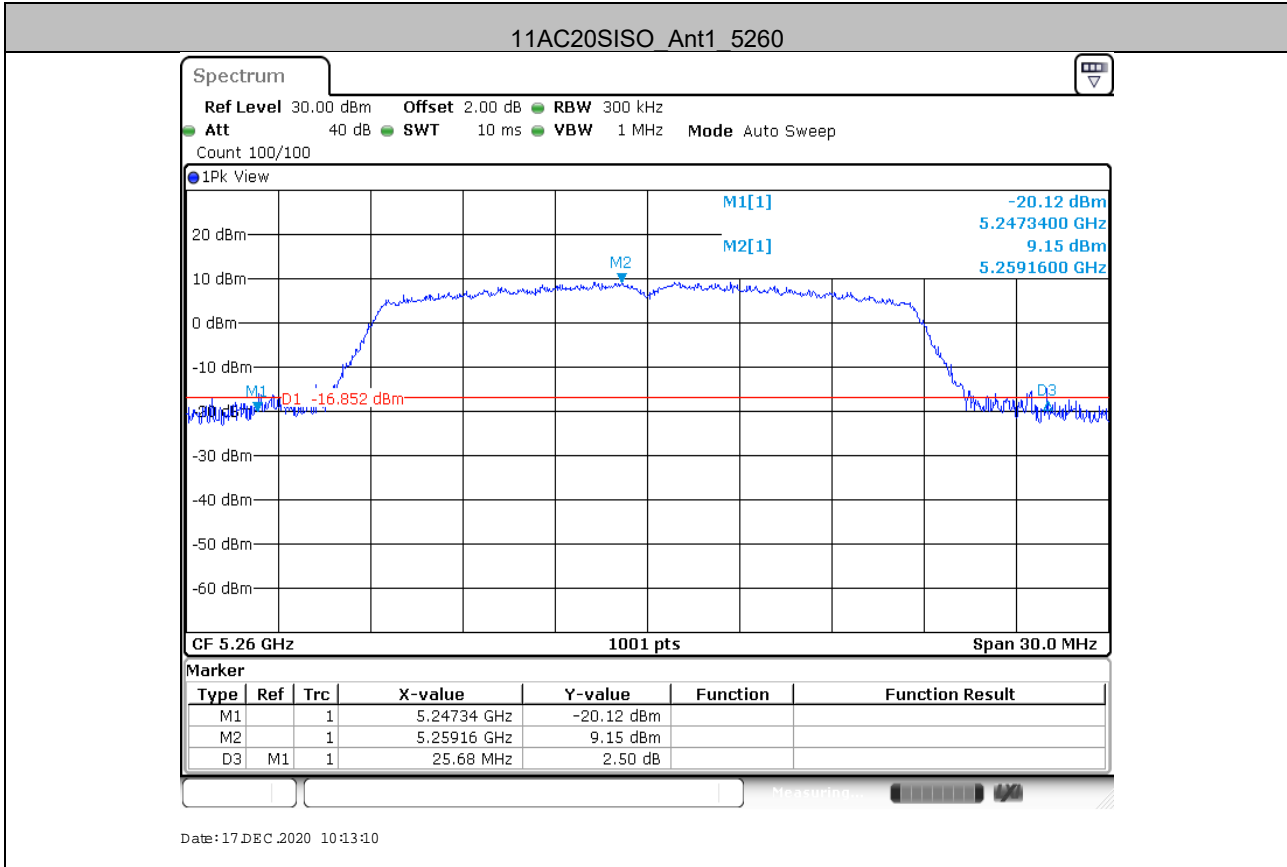
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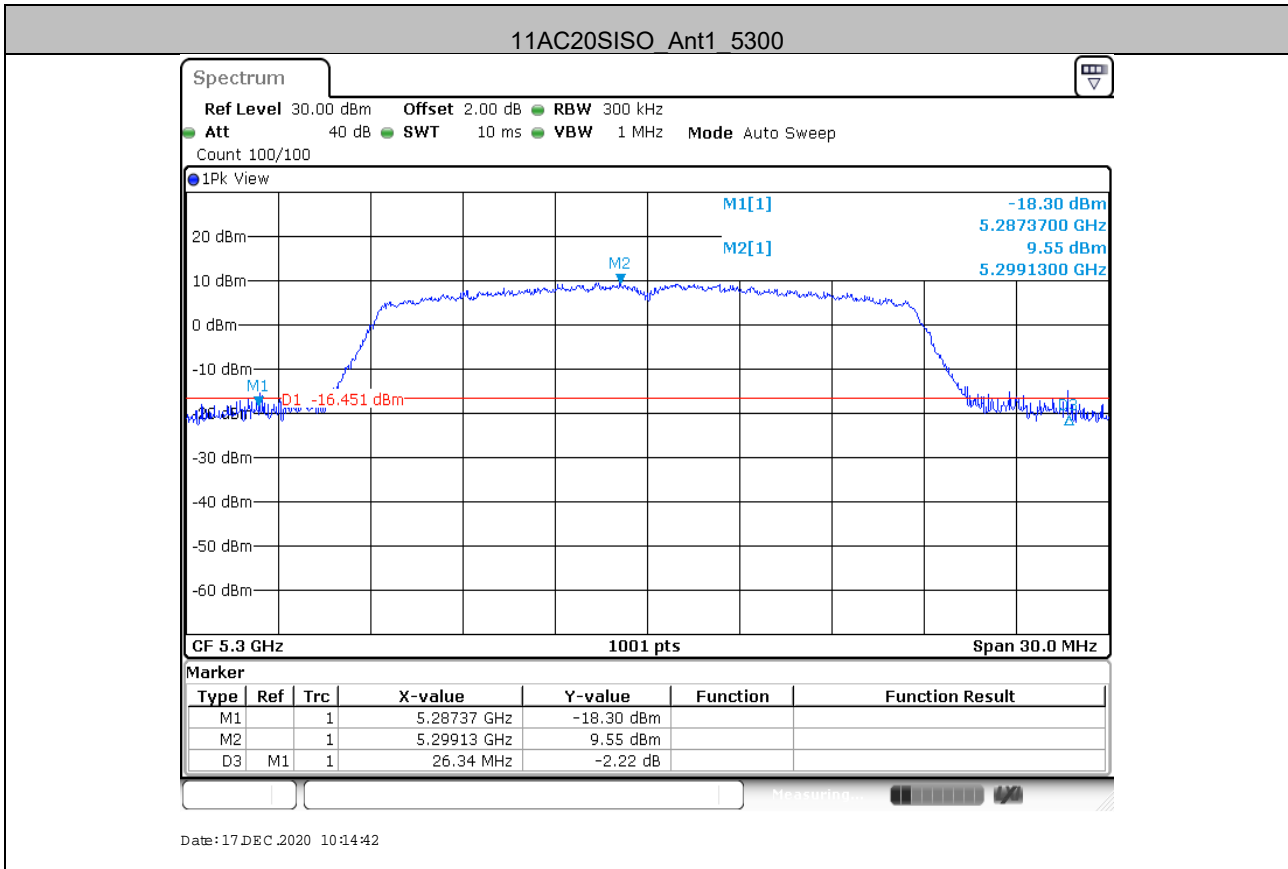
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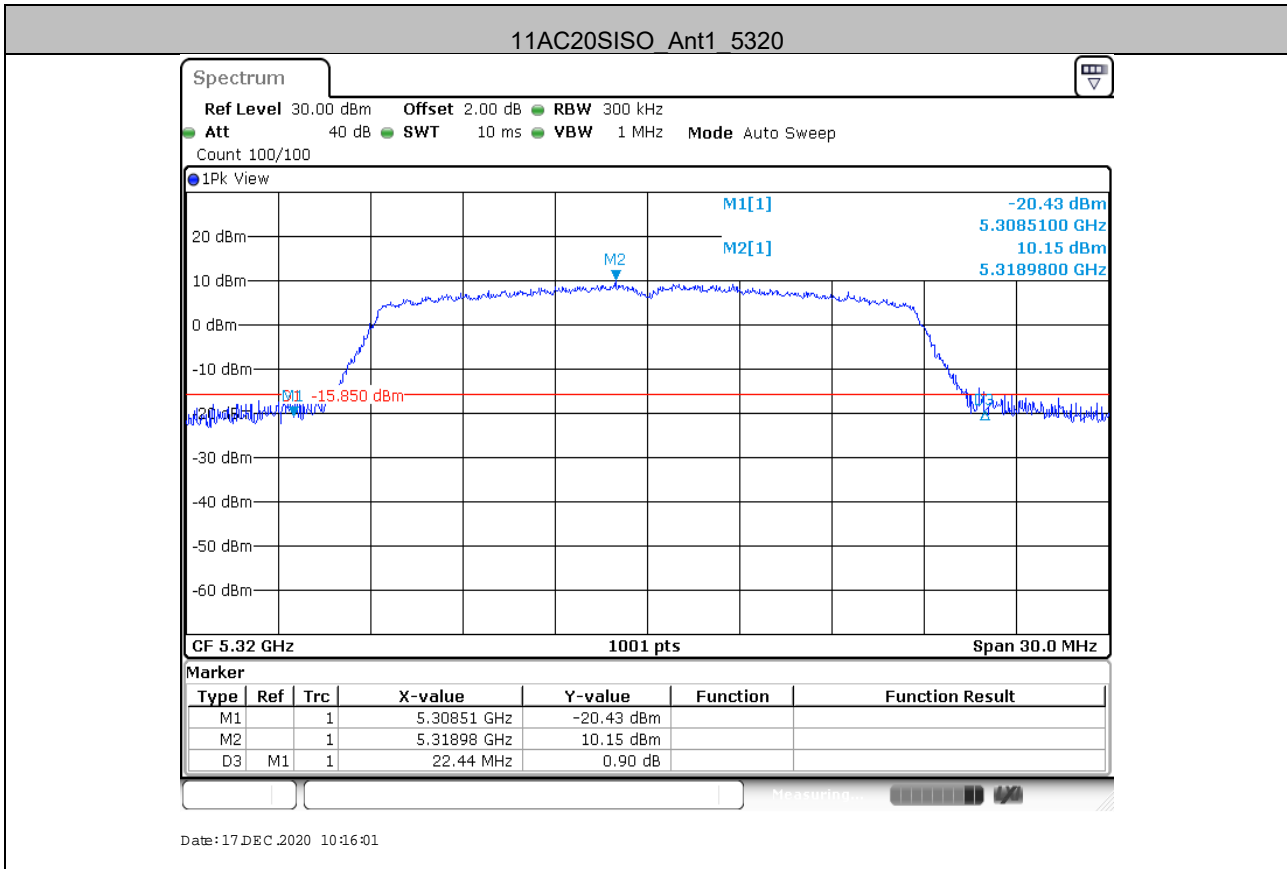


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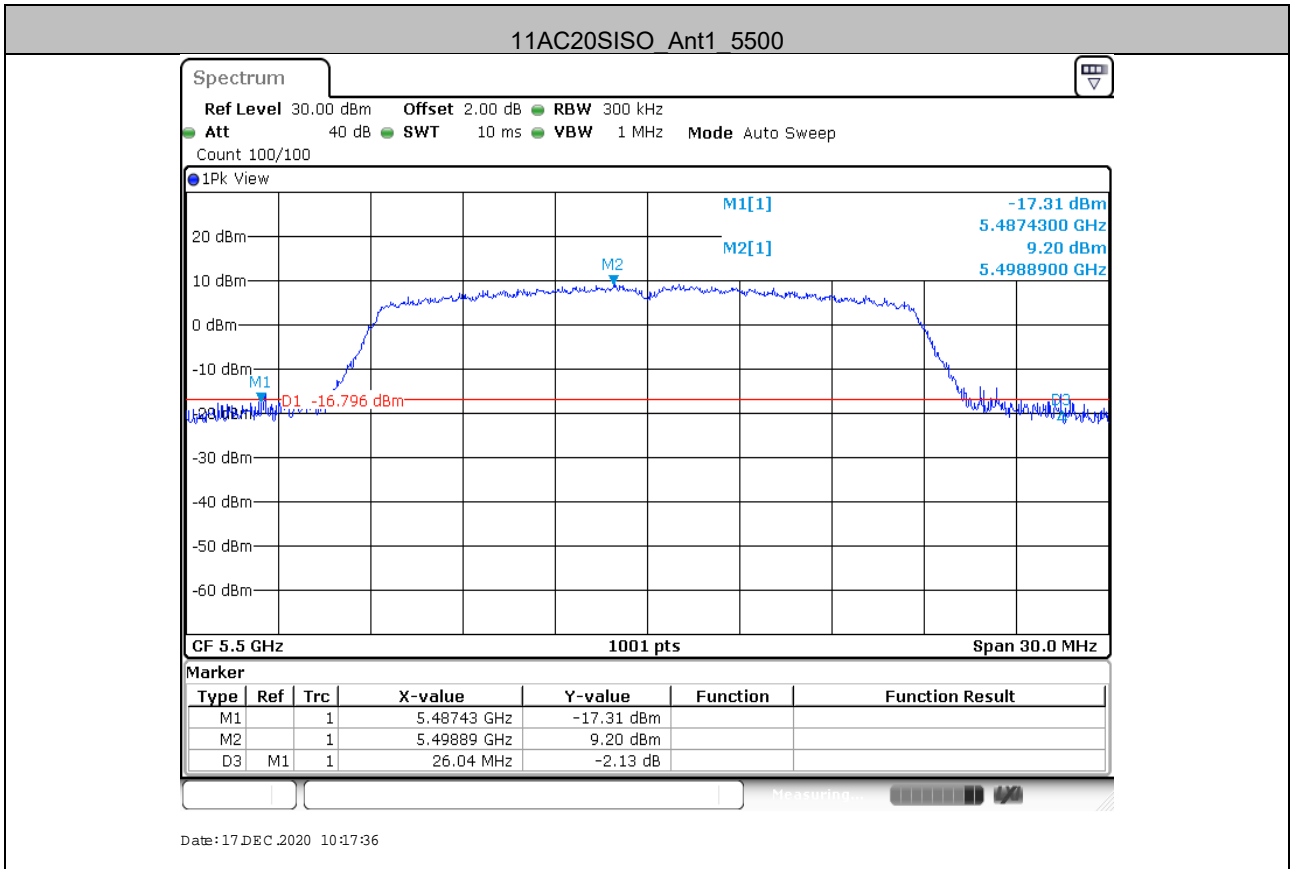


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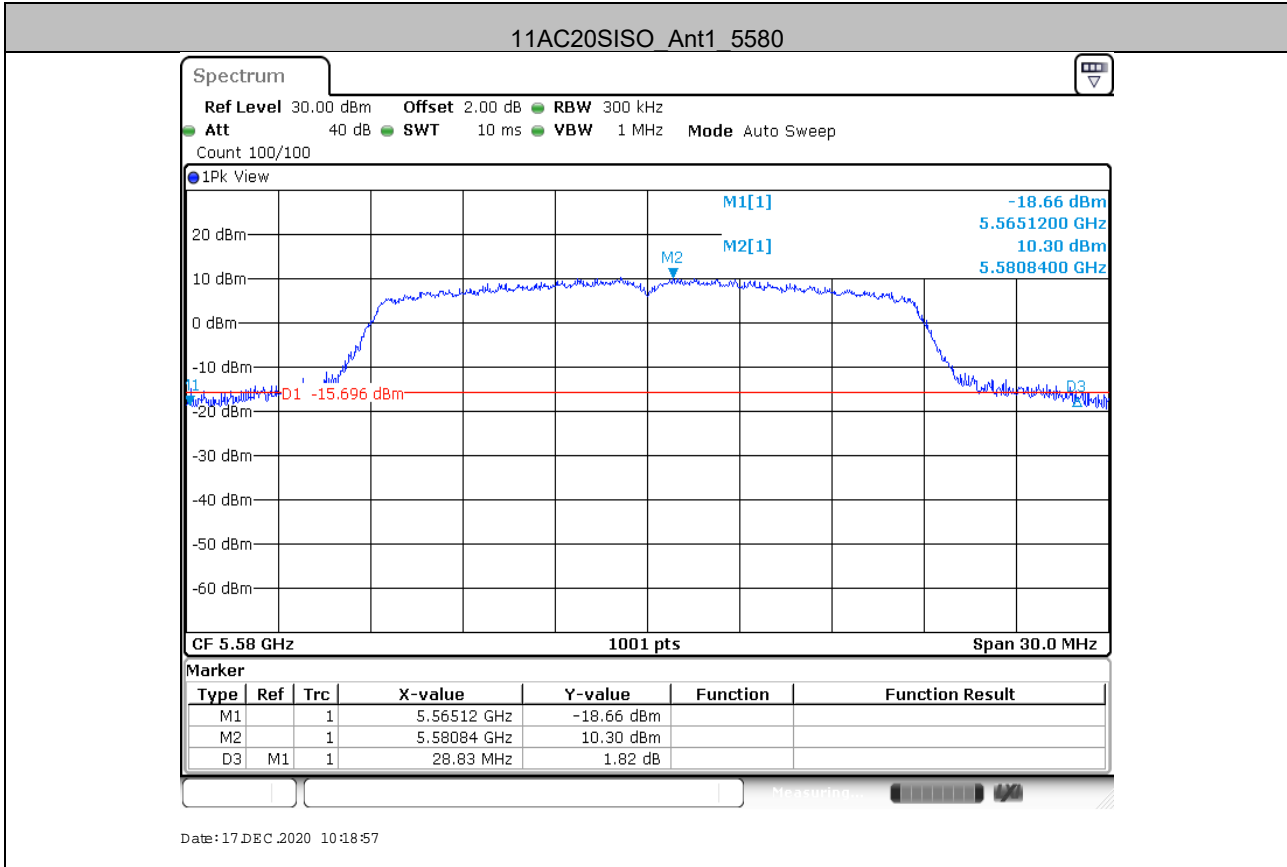




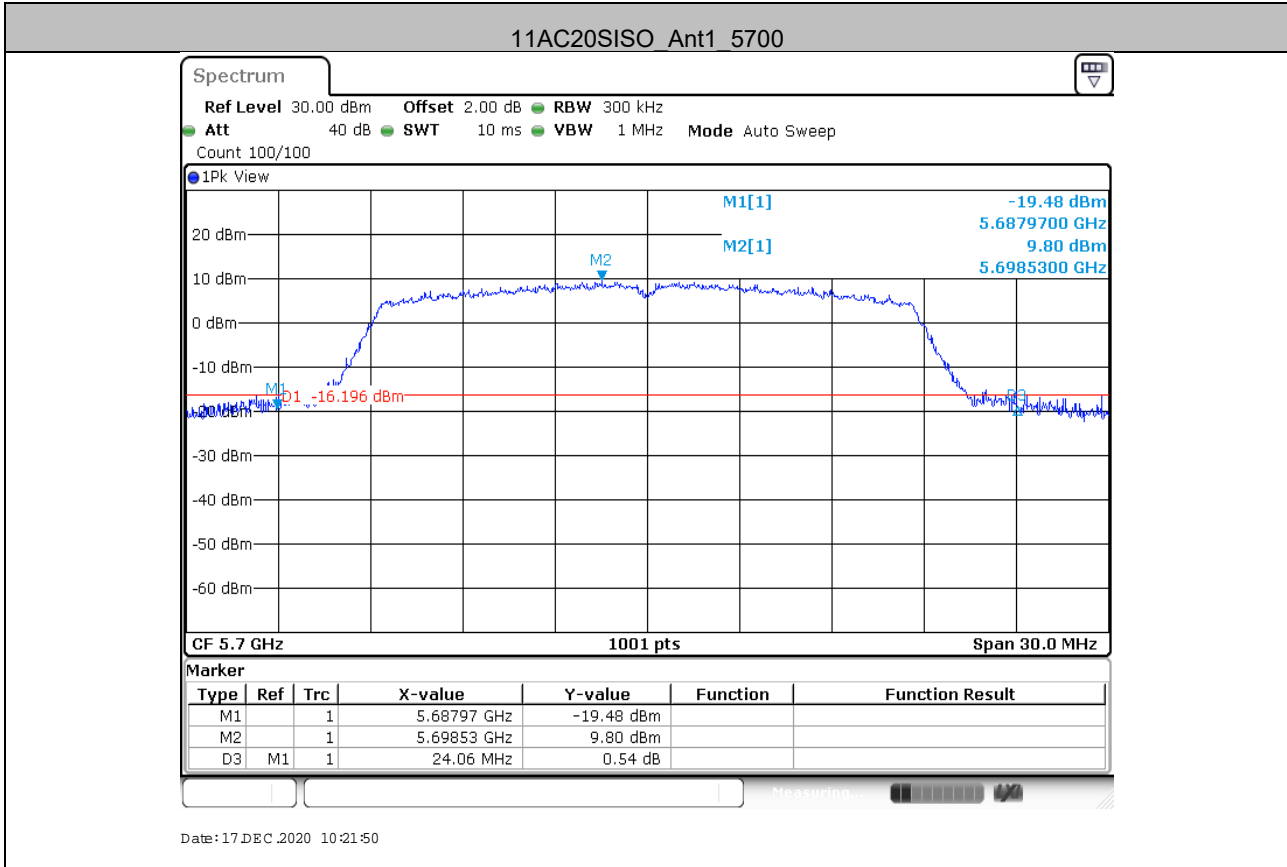
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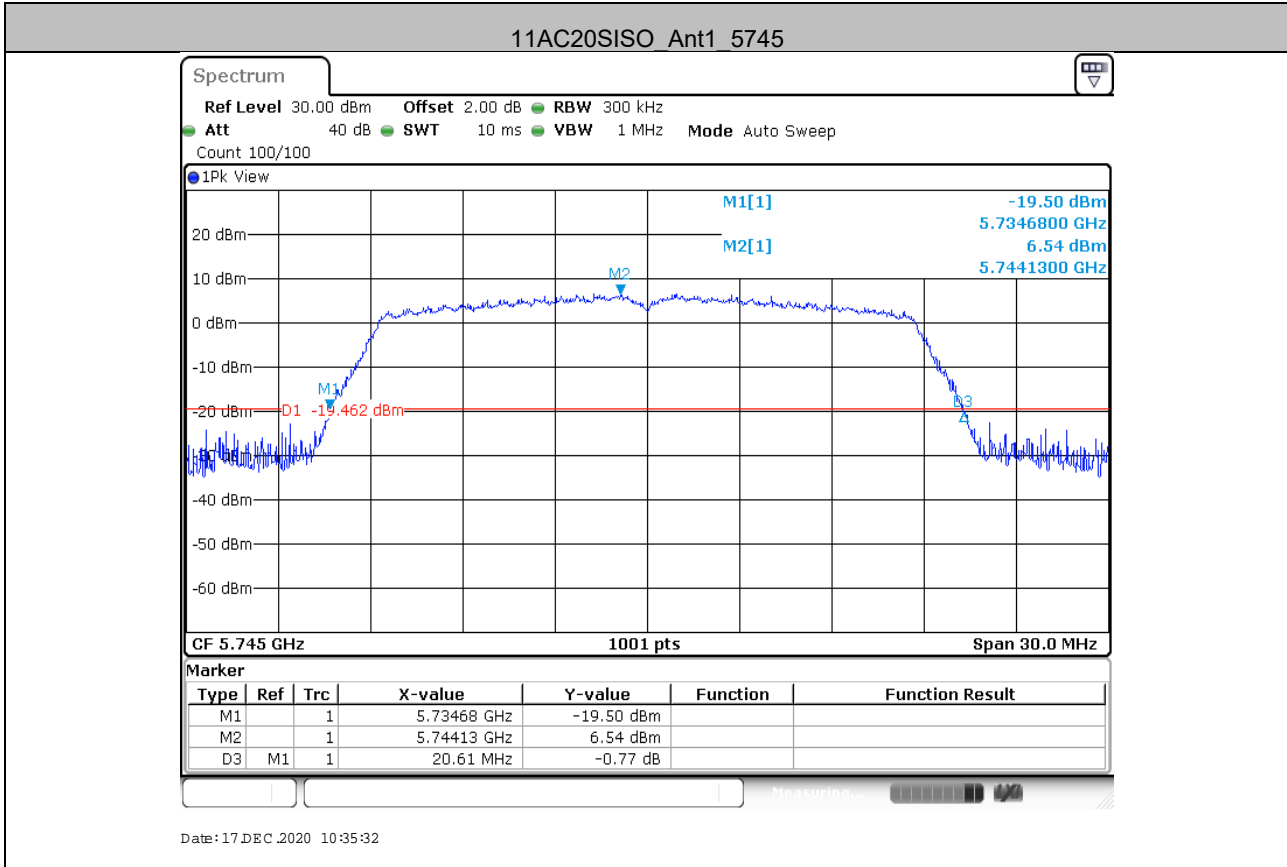


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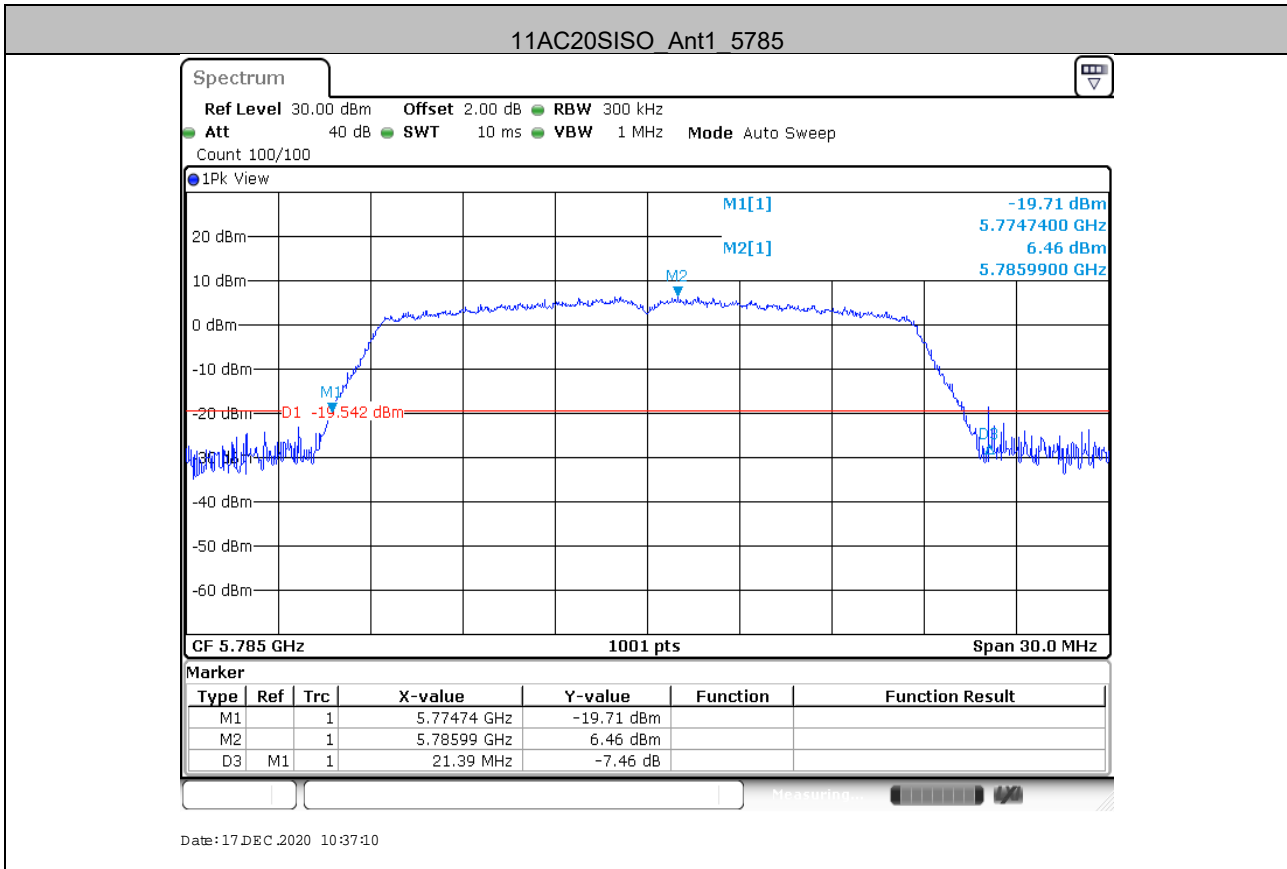


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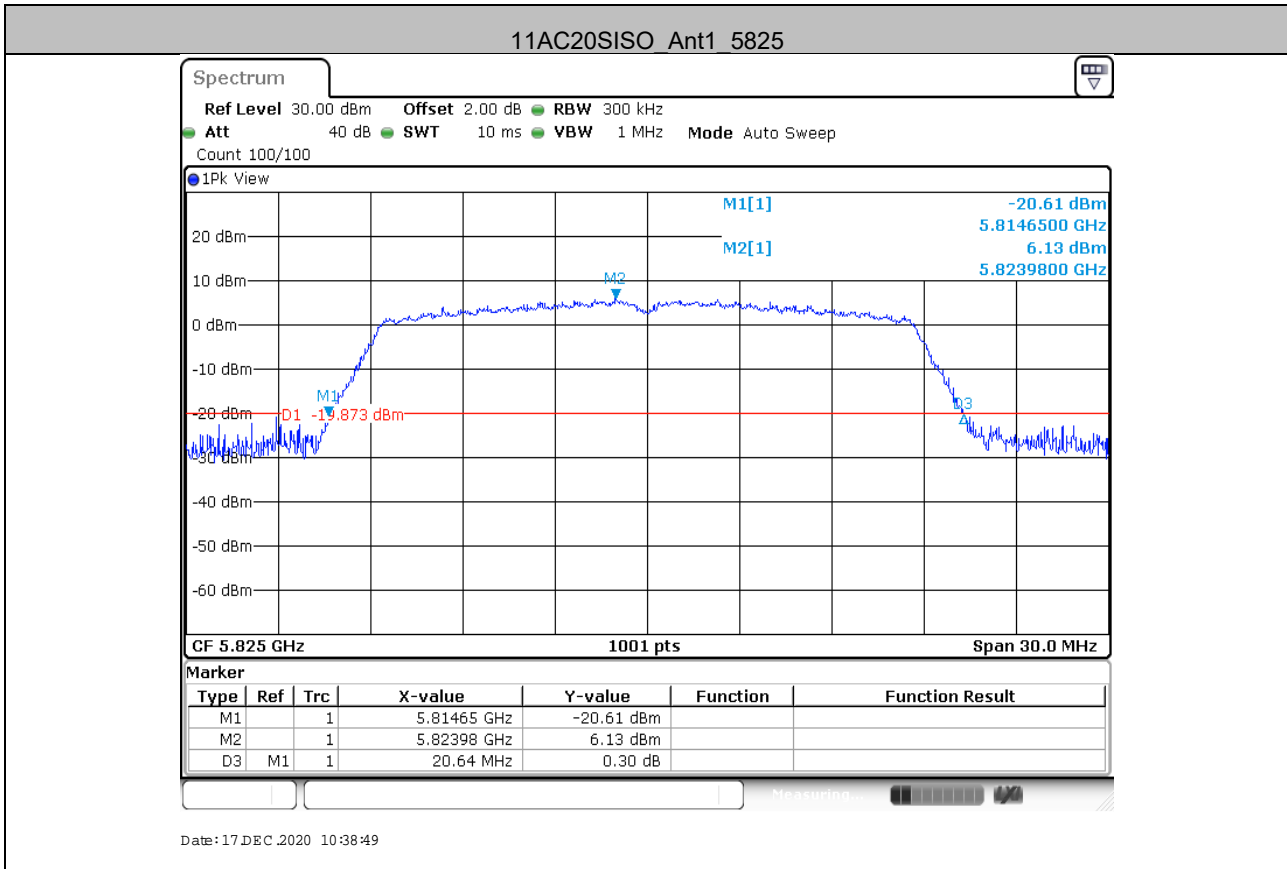


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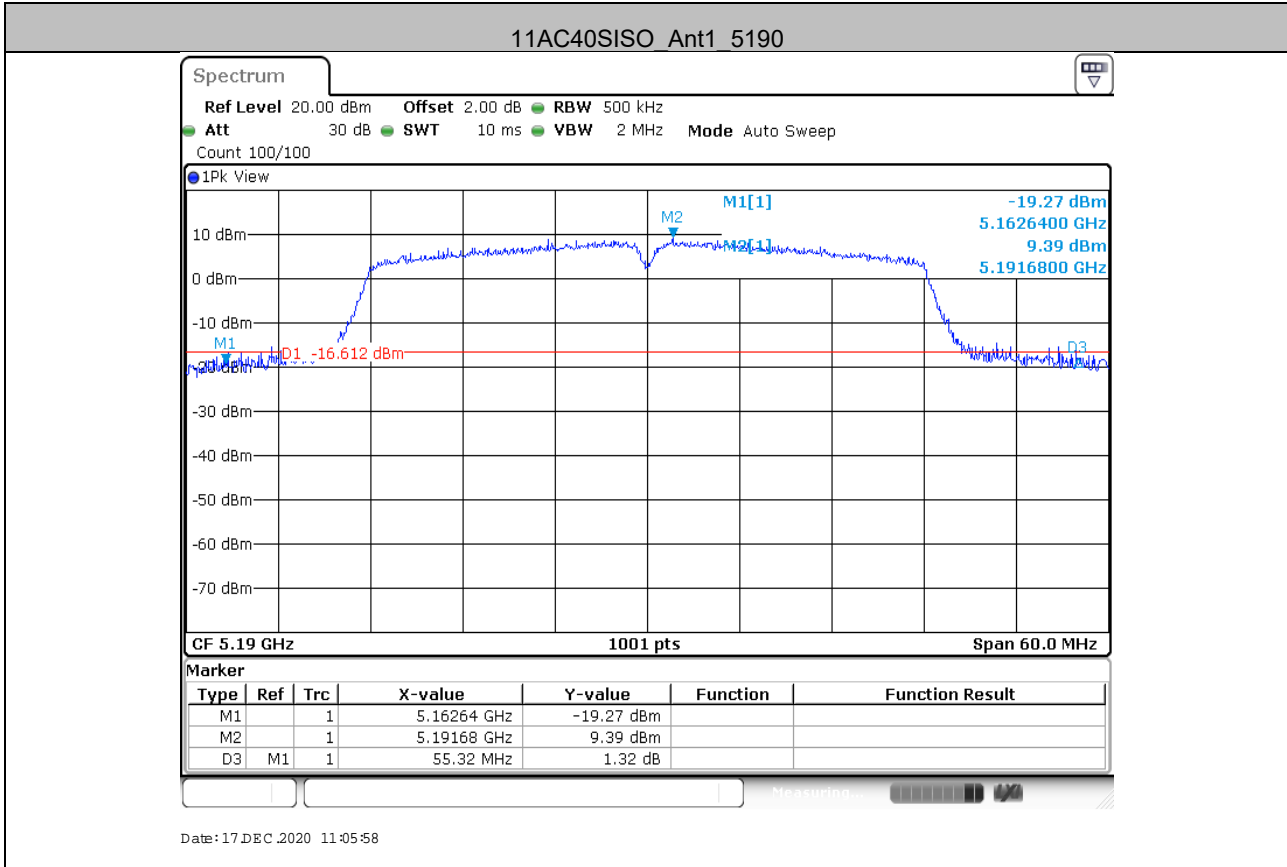


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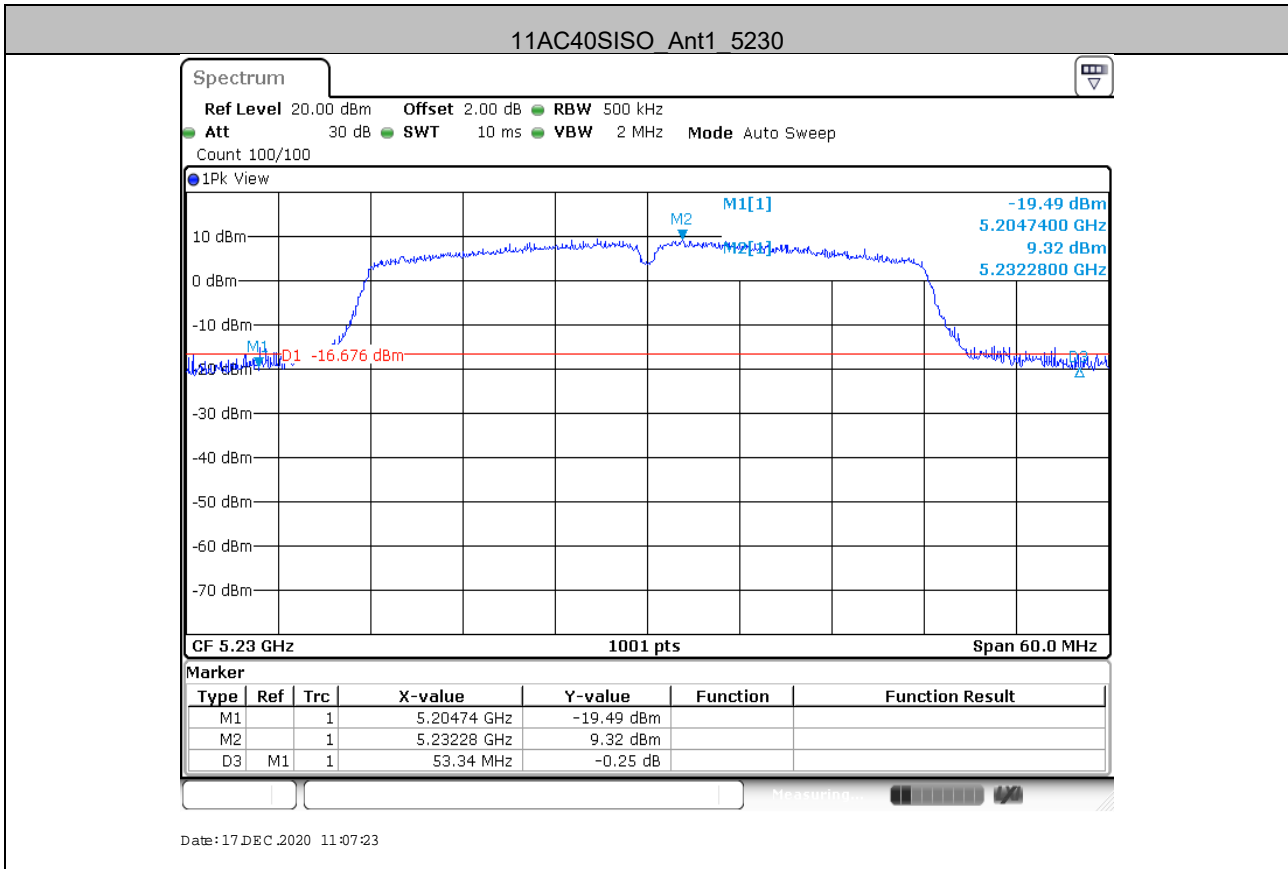


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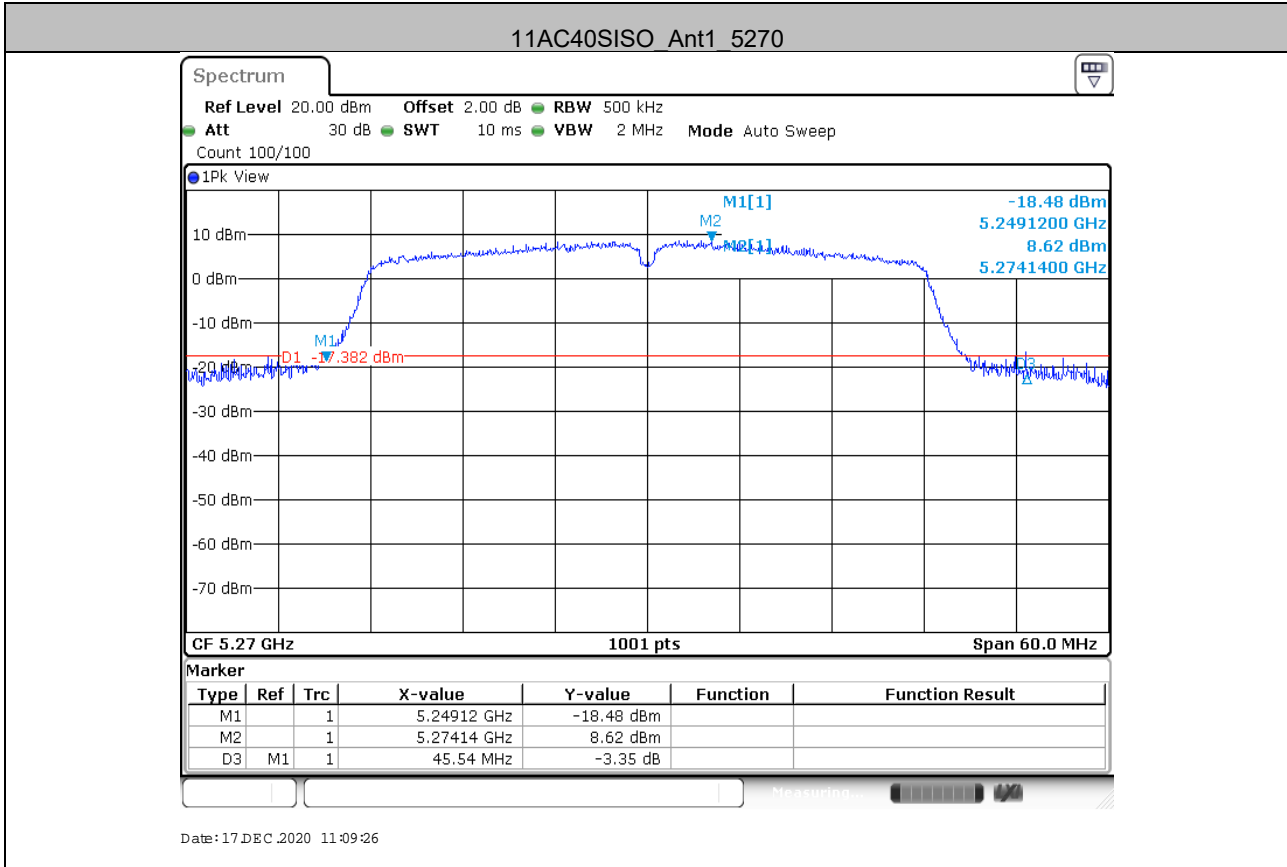


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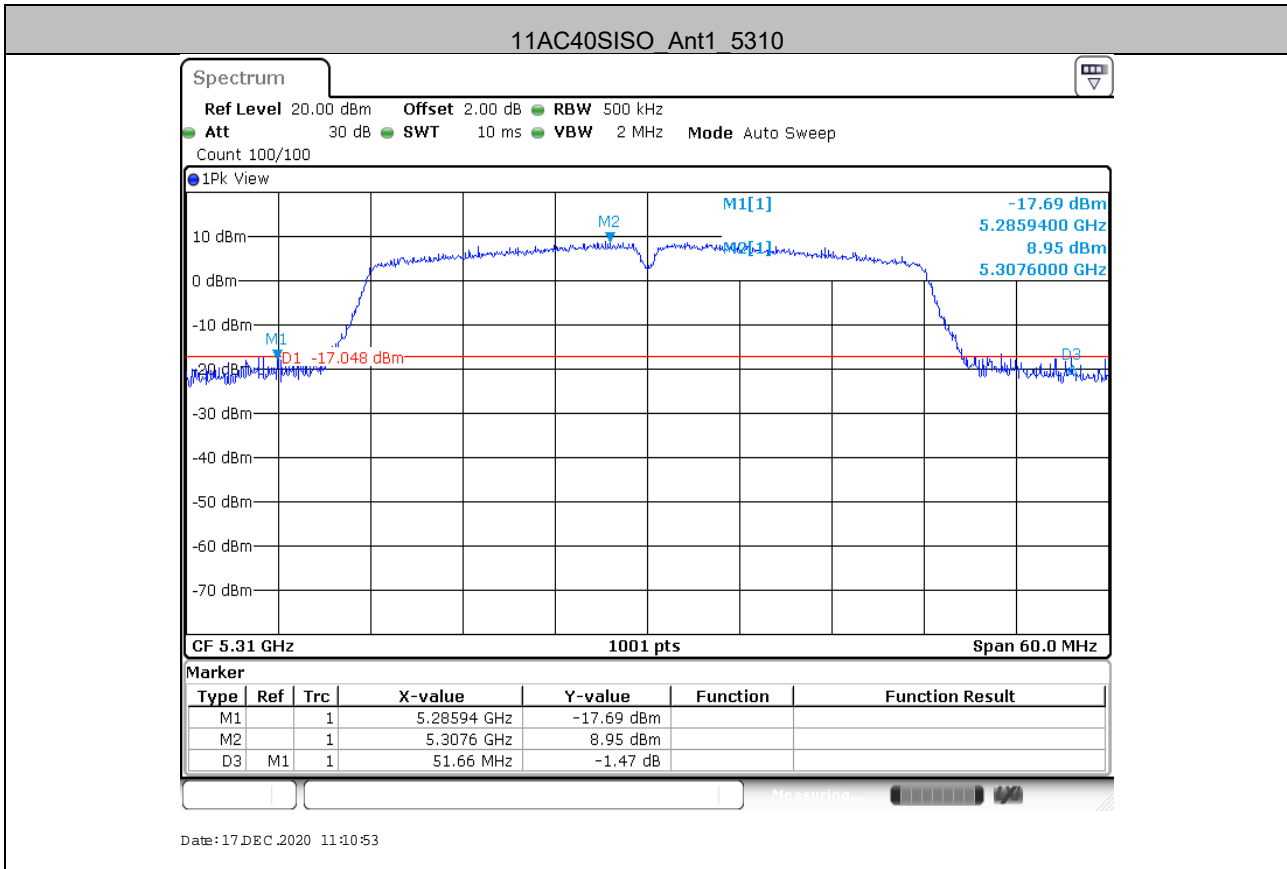


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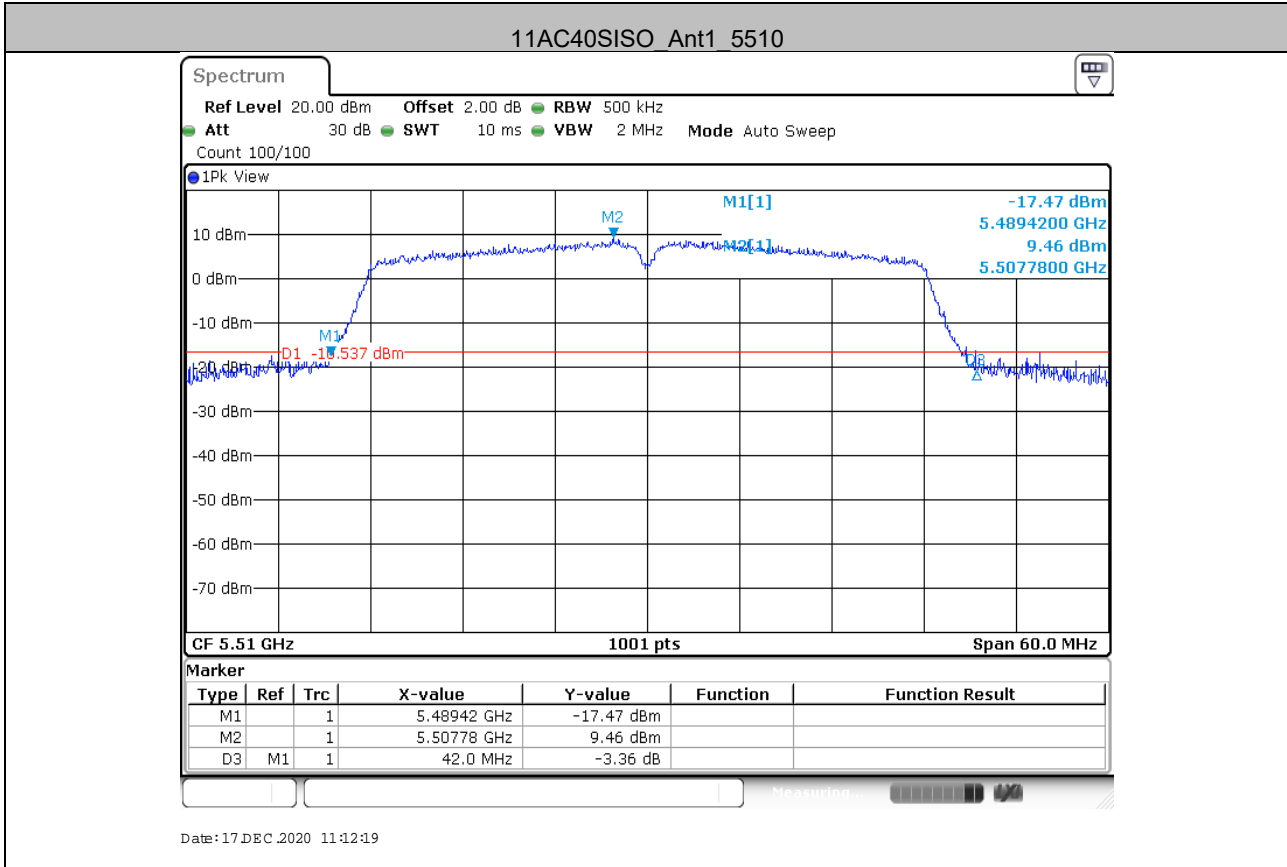


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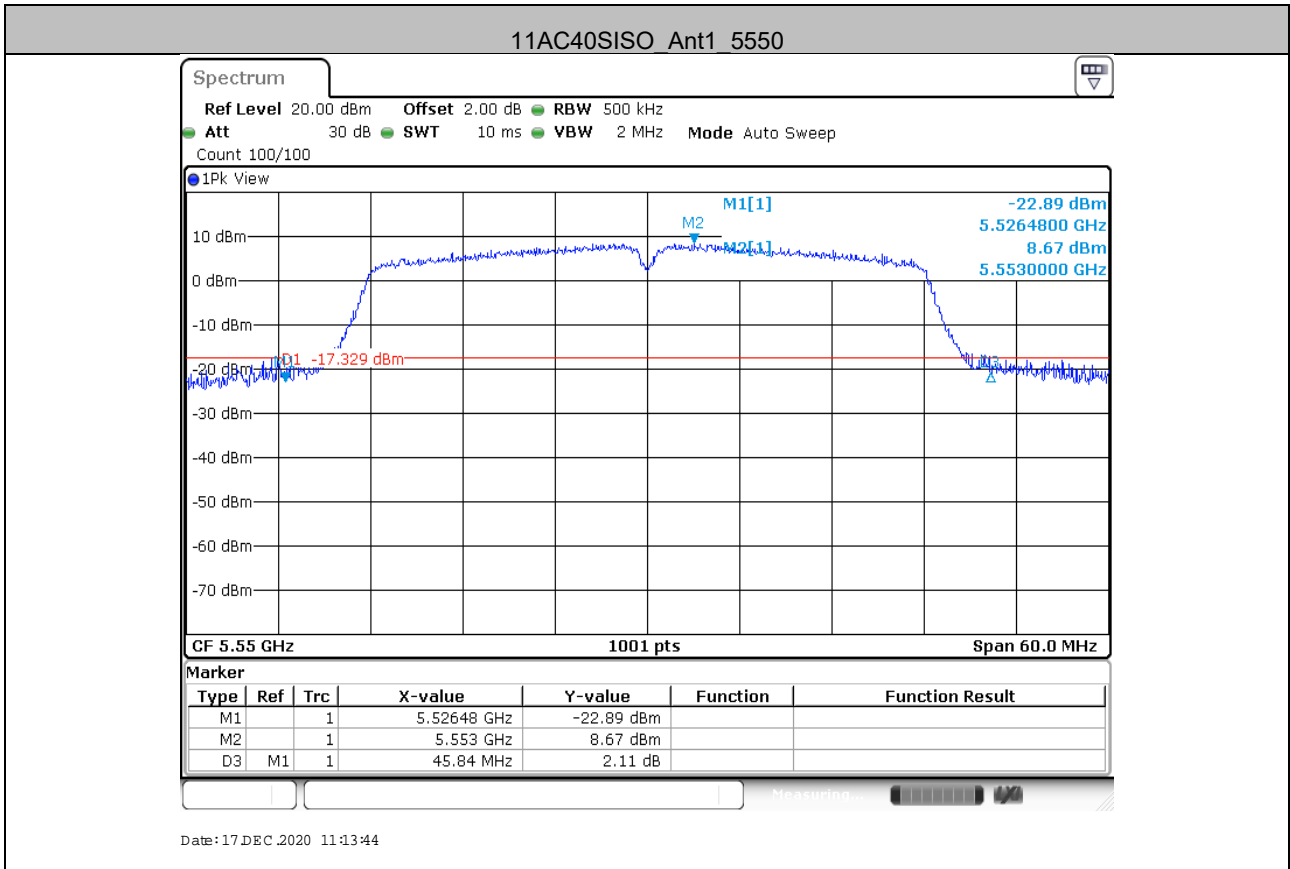
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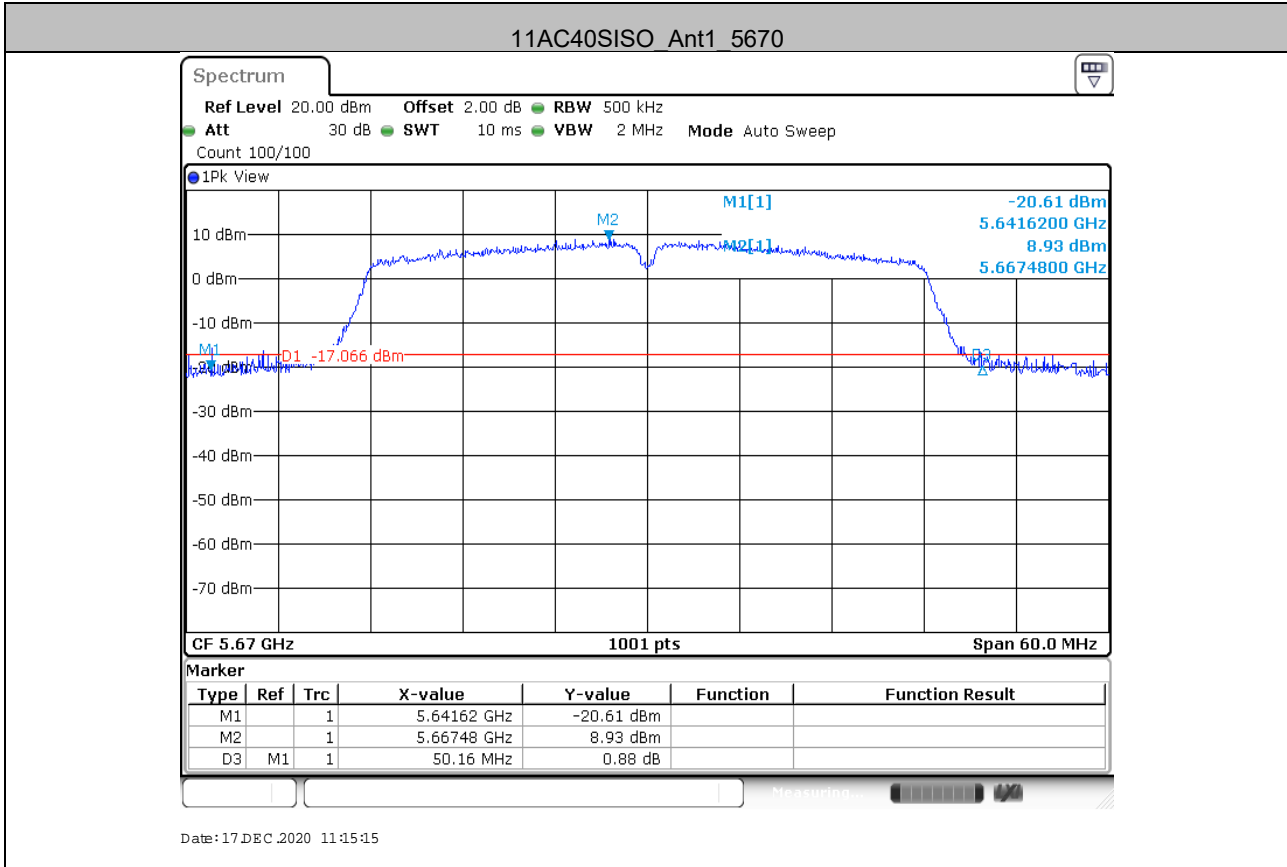
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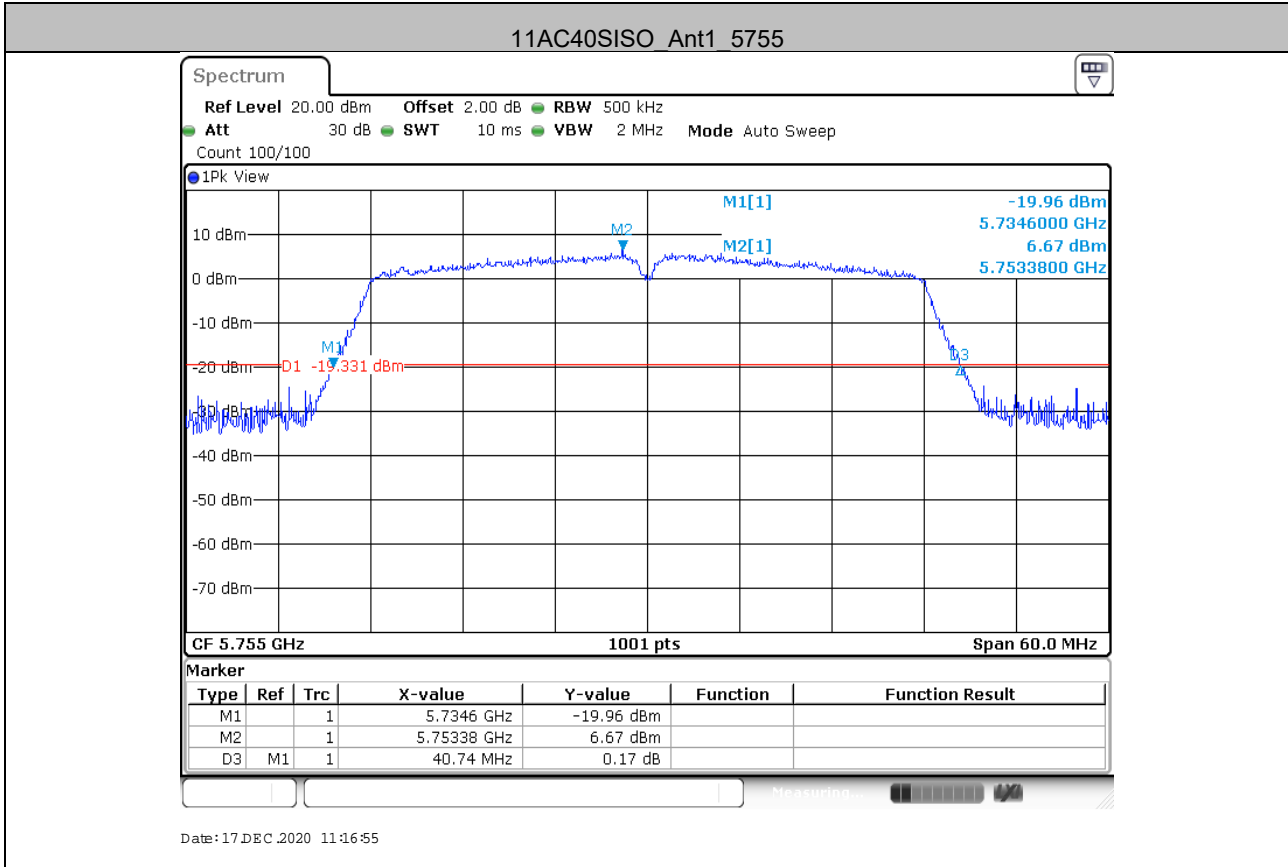
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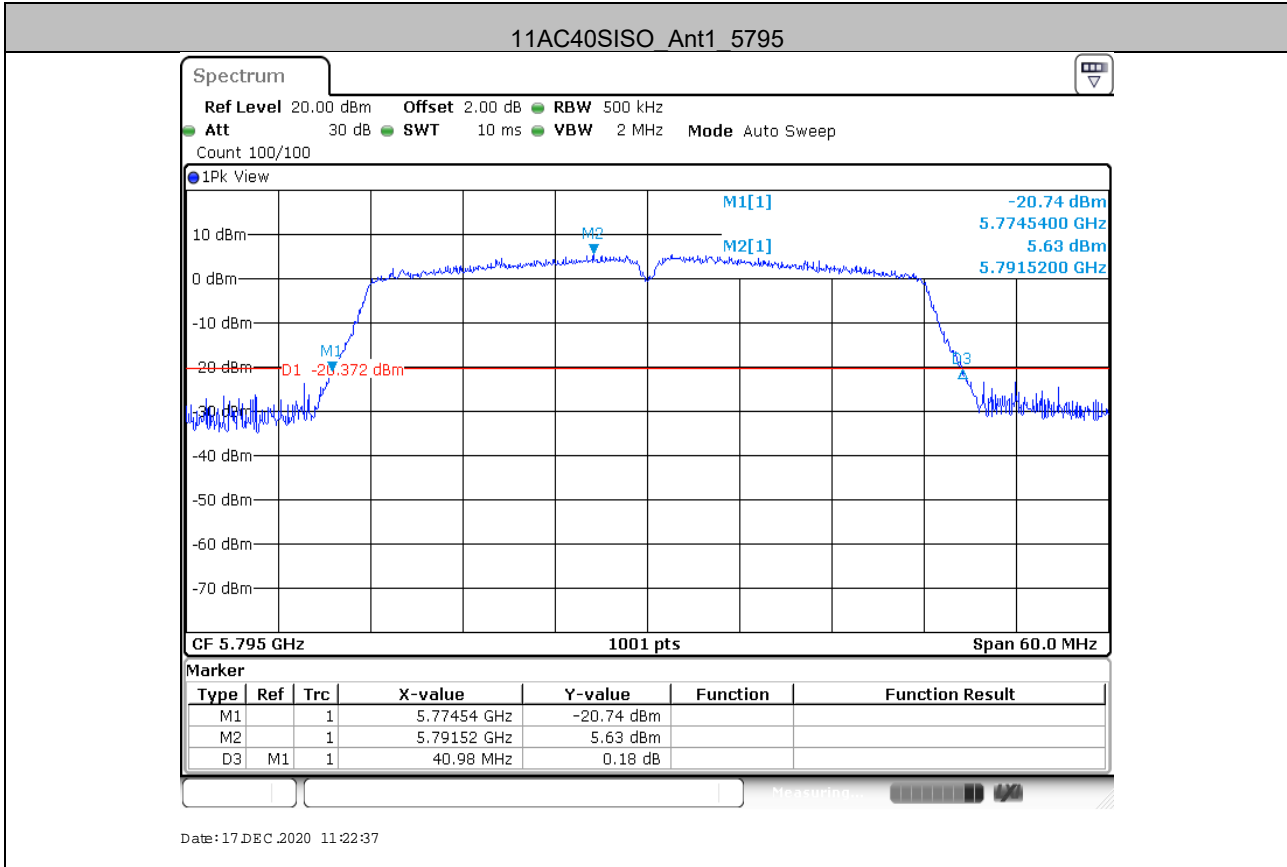
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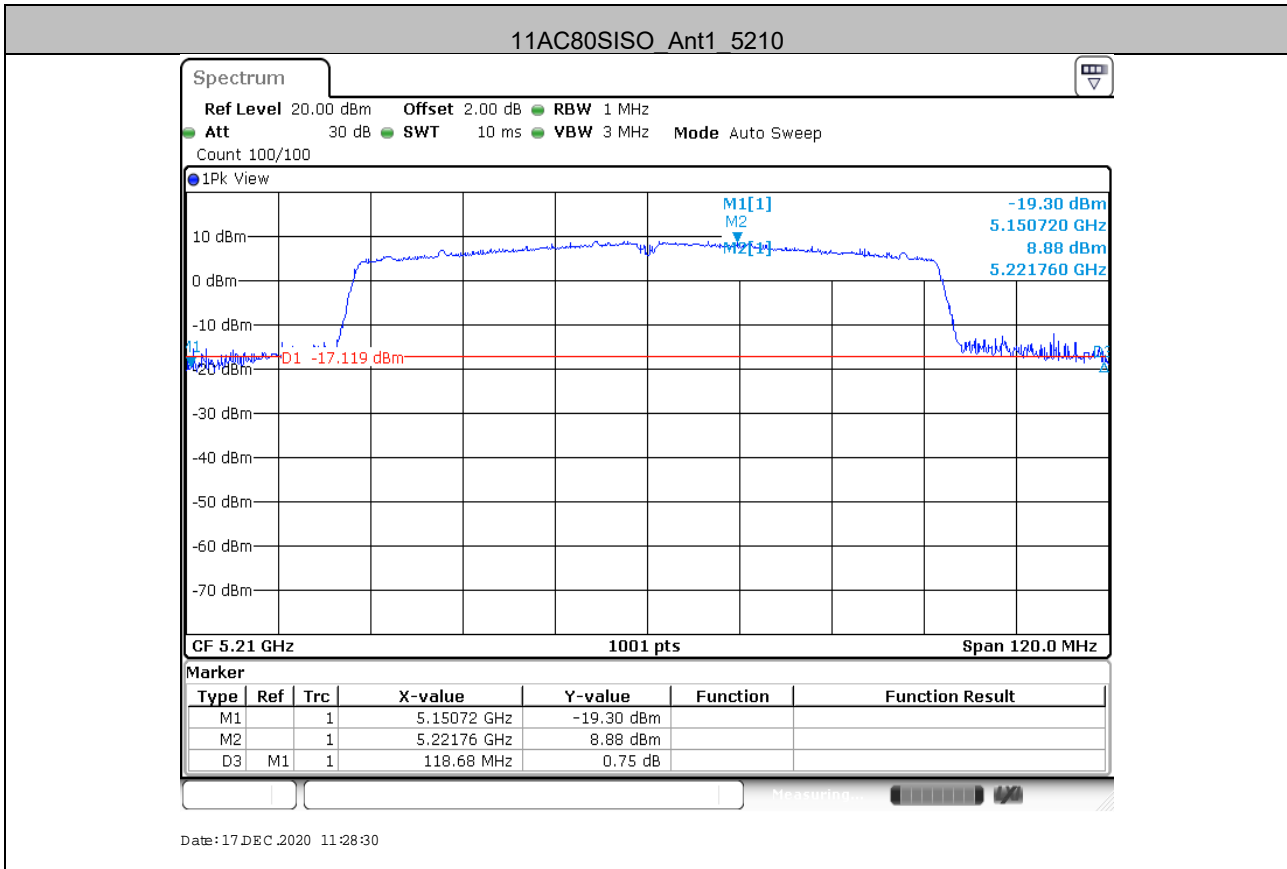


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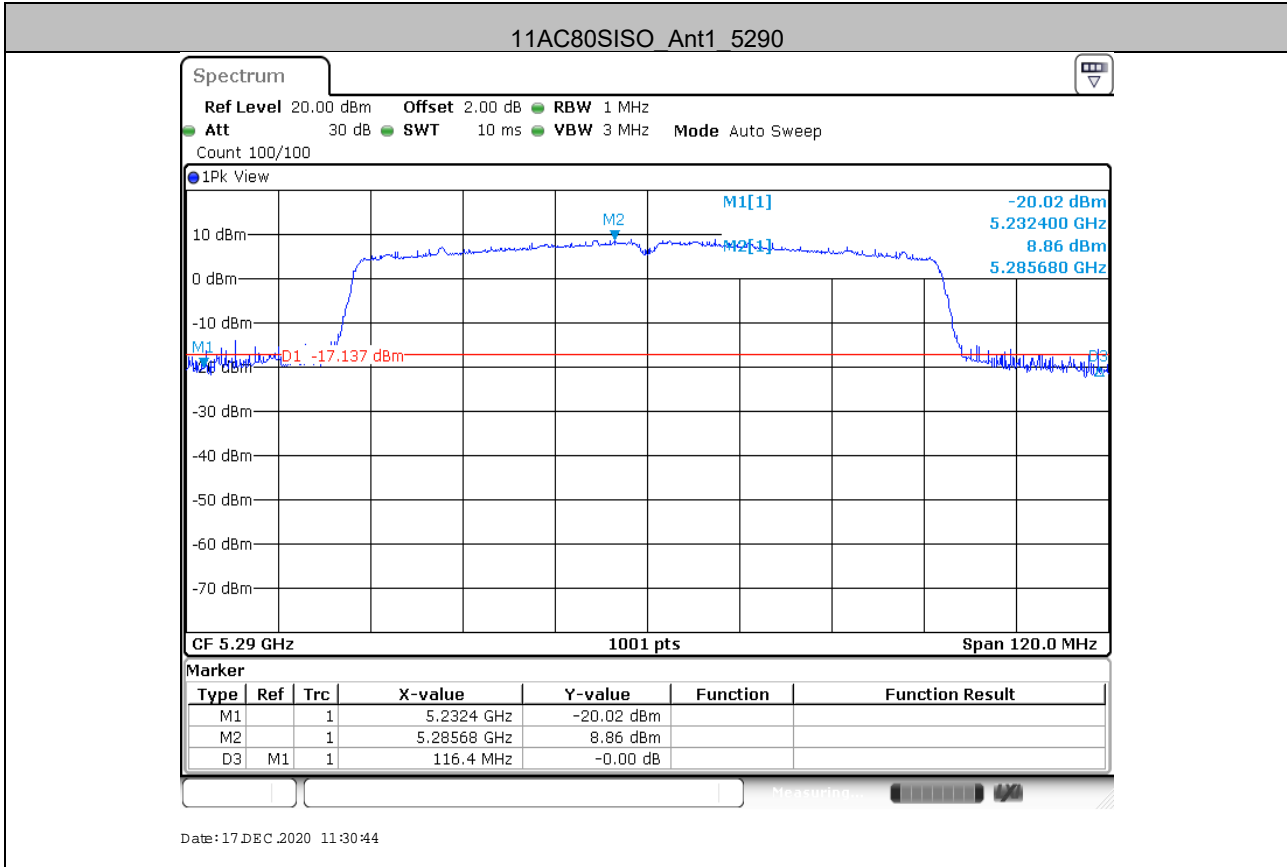


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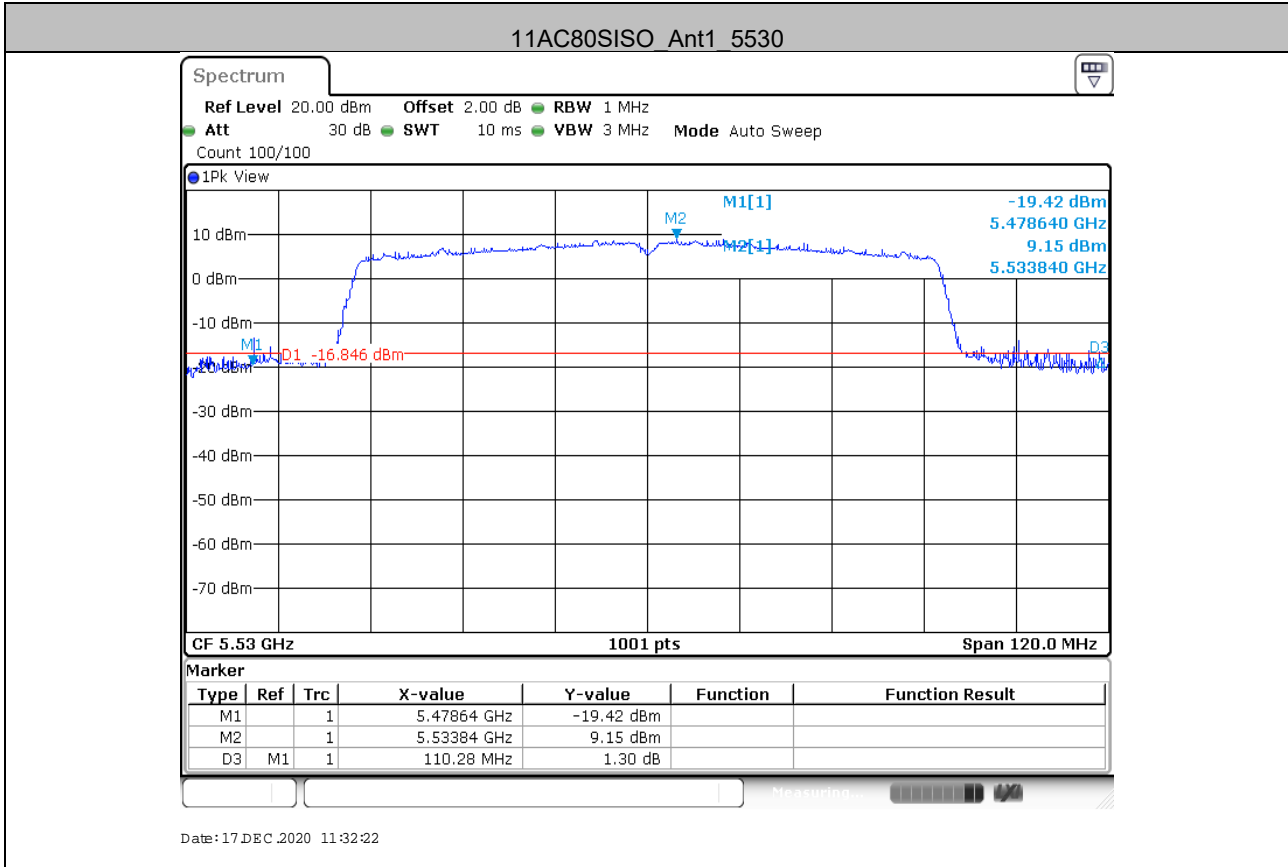




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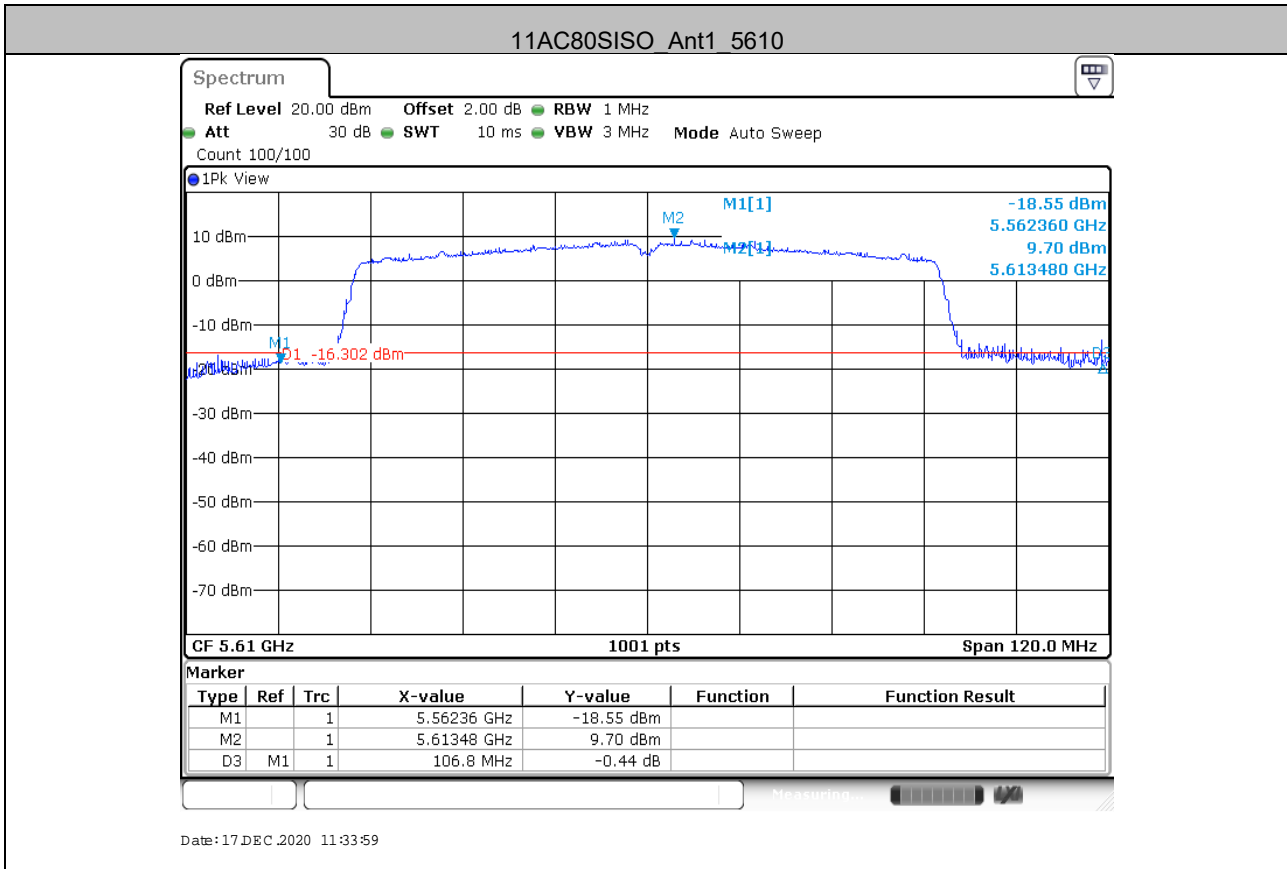


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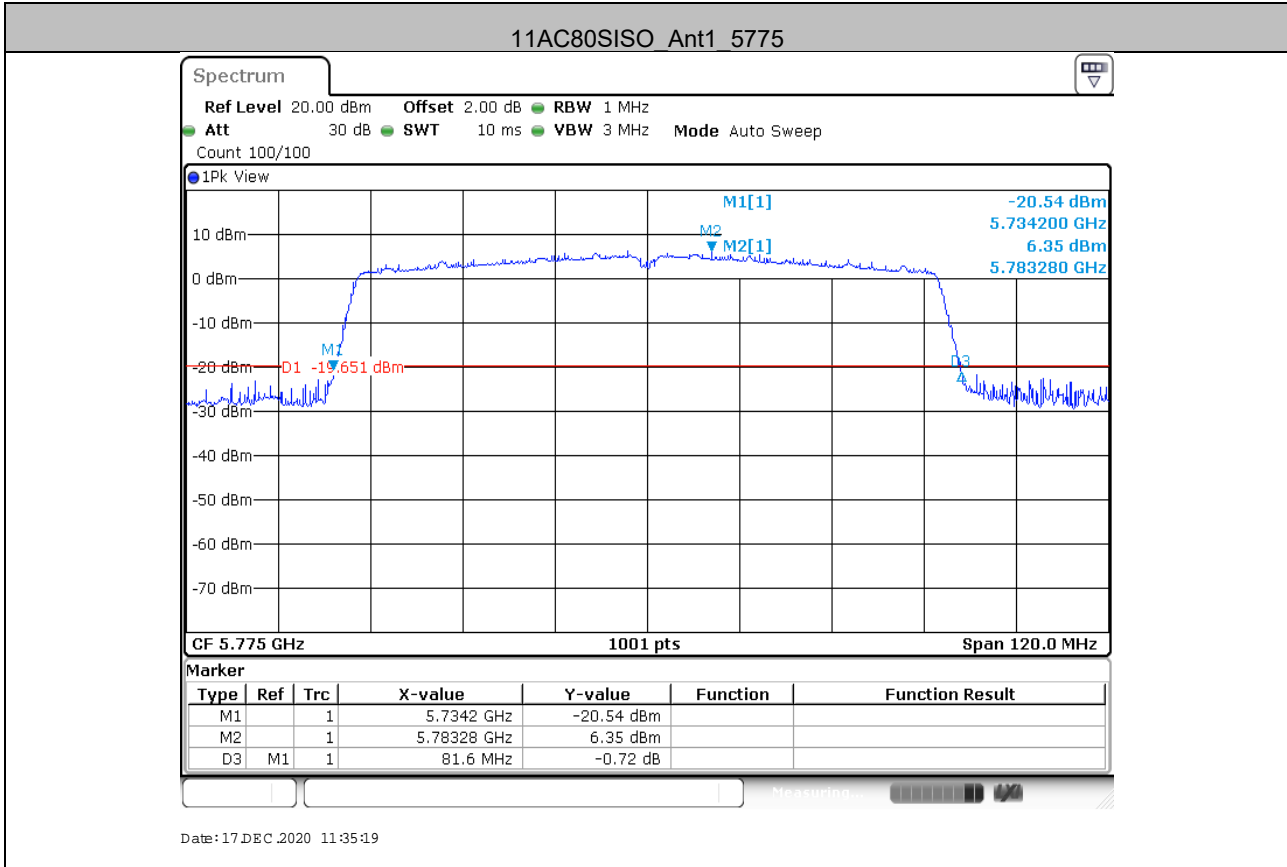


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**Occupied channel bandwidth**  
**Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.963	5171.518	5188.482	---	PASS
		5200	16.963	5191.518	5208.482	---	PASS
		5240	16.993	5231.489	5248.482	---	PASS
		5260	16.843	5251.548	5268.392	---	PASS
		5300	16.813	5291.578	5308.392	---	PASS
		5320	16.903	5311.548	5328.452	---	PASS
		5500	16.843	5491.578	5508.422	---	PASS
		5580	16.903	5571.548	5588.452	---	PASS
		5700	16.873	5691.518	5708.392	---	PASS
		5745	16.723	5736.608	5753.332	---	PASS
		5785	16.783	5776.608	5793.392	---	PASS
		5825	16.783	5816.608	5833.392	---	PASS
11N20SISO	Ant1	5180	18.042	5170.979	5189.021	---	PASS
		5200	18.042	5190.979	5209.021	---	PASS
		5240	18.042	5230.949	5248.991	---	PASS
		5260	17.862	5251.039	5268.901	---	PASS
		5300	17.892	5291.039	5308.931	---	PASS
		5320	17.892	5311.039	5328.931	---	PASS
		5500	17.892	5491.039	5508.931	---	PASS
		5580	17.892	5571.039	5588.931	---	PASS
		5700	17.892	5691.009	5708.901	---	PASS
		5745	17.742	5736.099	5753.841	---	PASS
		5785	17.772	5776.129	5793.901	---	PASS
		5825	17.802	5816.099	5833.901	---	PASS
11N40SISO	Ant1	5190	36.384	5171.838	5208.222	---	PASS
		5230	36.324	5211.838	5248.162	---	PASS
		5270	36.324	5251.838	5288.162	---	PASS



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		5310	36.324	5291.838	5328.162	---	PASS
		5510	36.324	5491.838	5528.162	---	PASS
		5550	36.384	5531.838	5568.222	---	PASS
		5670	36.324	5651.838	5688.162	---	PASS
		5755	36.144	5736.898	5773.042	---	PASS
		5795	36.204	5776.898	5813.102	---	PASS
11AC20SISO	Ant1	5180	18.012	5171.009	5189.021	---	PASS
		5200	18.042	5190.979	5209.021	---	PASS
		5240	18.012	5230.979	5248.991	---	PASS
		5260	17.832	5251.069	5268.901	---	PASS
		5300	17.832	5291.069	5308.901	---	PASS
		5320	17.832	5311.069	5328.901	---	PASS
		5500	17.832	5491.069	5508.901	---	PASS
		5580	17.952	5571.039	5588.991	---	PASS
		5700	17.862	5691.039	5708.901	---	PASS
		5745	17.712	5736.129	5753.841	---	PASS
		5785	17.742	5776.129	5793.871	---	PASS
		5825	17.742	5816.129	5833.871	---	PASS
11AC40SISO	Ant1	5190	36.324	5171.838	5208.162	---	PASS
		5230	36.324	5211.838	5248.162	---	PASS
		5270	36.204	5251.898	5288.102	---	PASS
		5310	36.204	5291.898	5328.102	---	PASS
		5510	36.264	5491.838	5528.102	---	PASS
		5550	36.204	5531.898	5568.102	---	PASS
		5670	36.264	5651.838	5688.102	---	PASS
		5755	36.144	5736.898	5773.042	---	PASS
		5795	36.144	5776.958	5813.102	---	PASS
11AC80SISO	Ant1	5210	75.644	5172.238	5247.882	---	PASS
		5290	75.524	5252.238	5327.762	---	PASS
		5530	75.524	5492.238	5567.762	---	PASS
		5610	75.405	5572.358	5647.762	---	PASS
		5775	75.285	5737.358	5812.642	---	PASS



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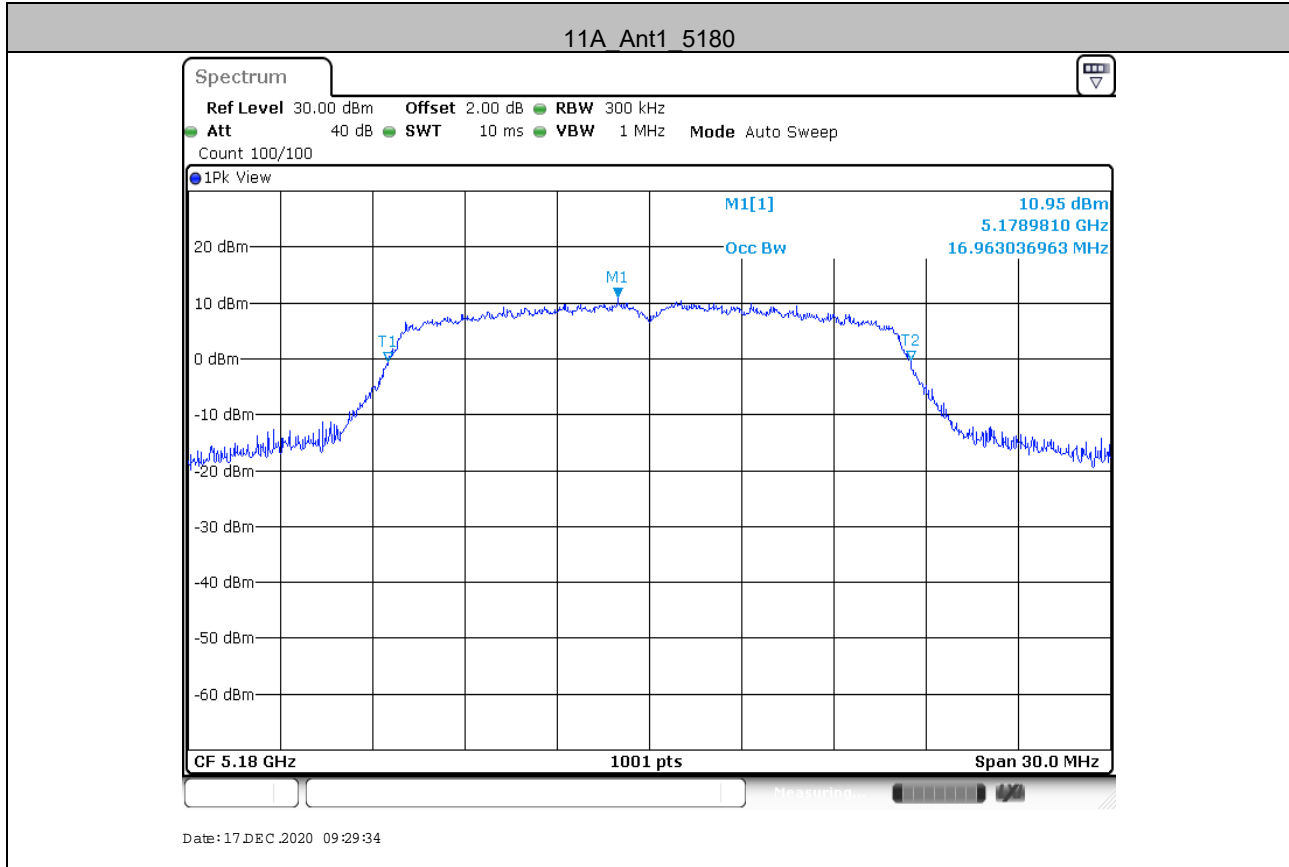


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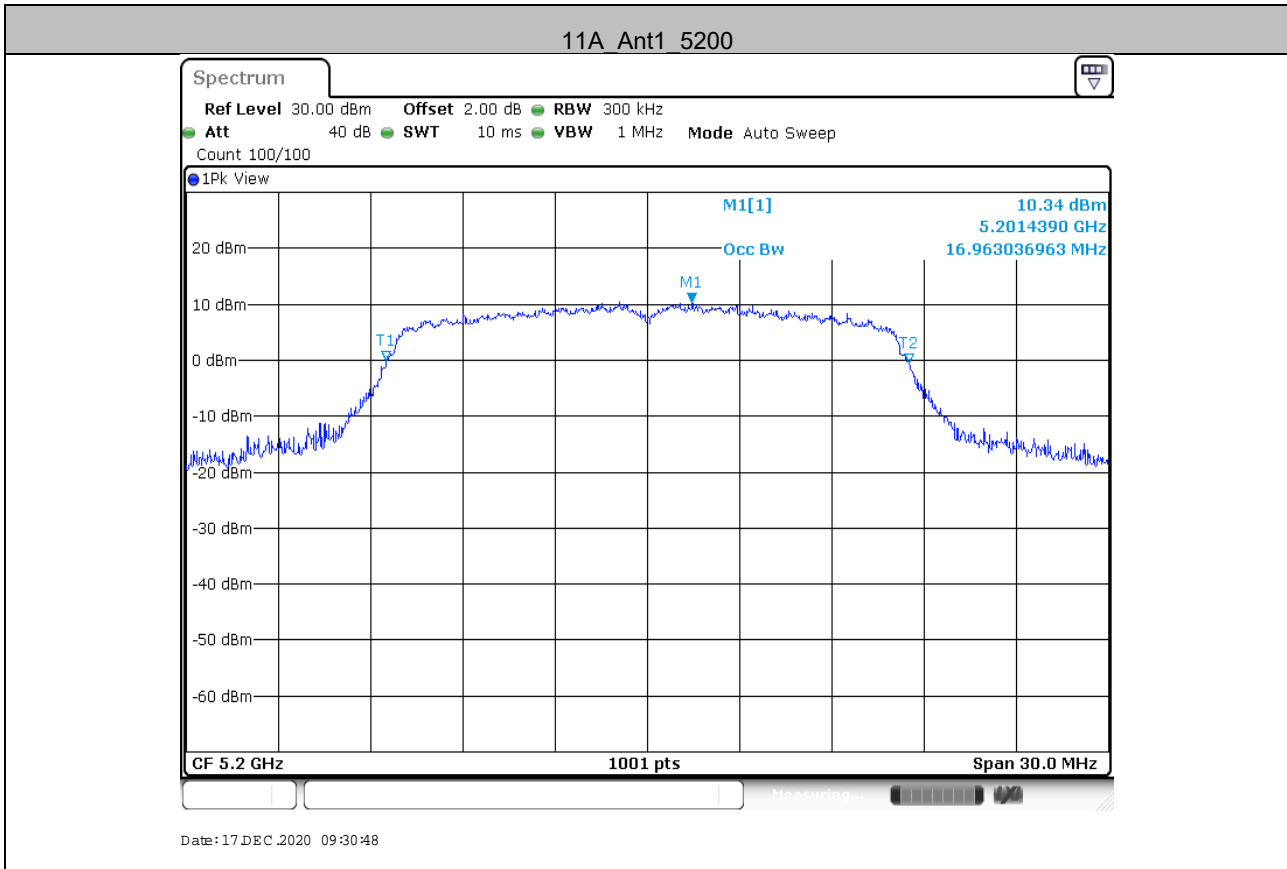


### Test Graphs



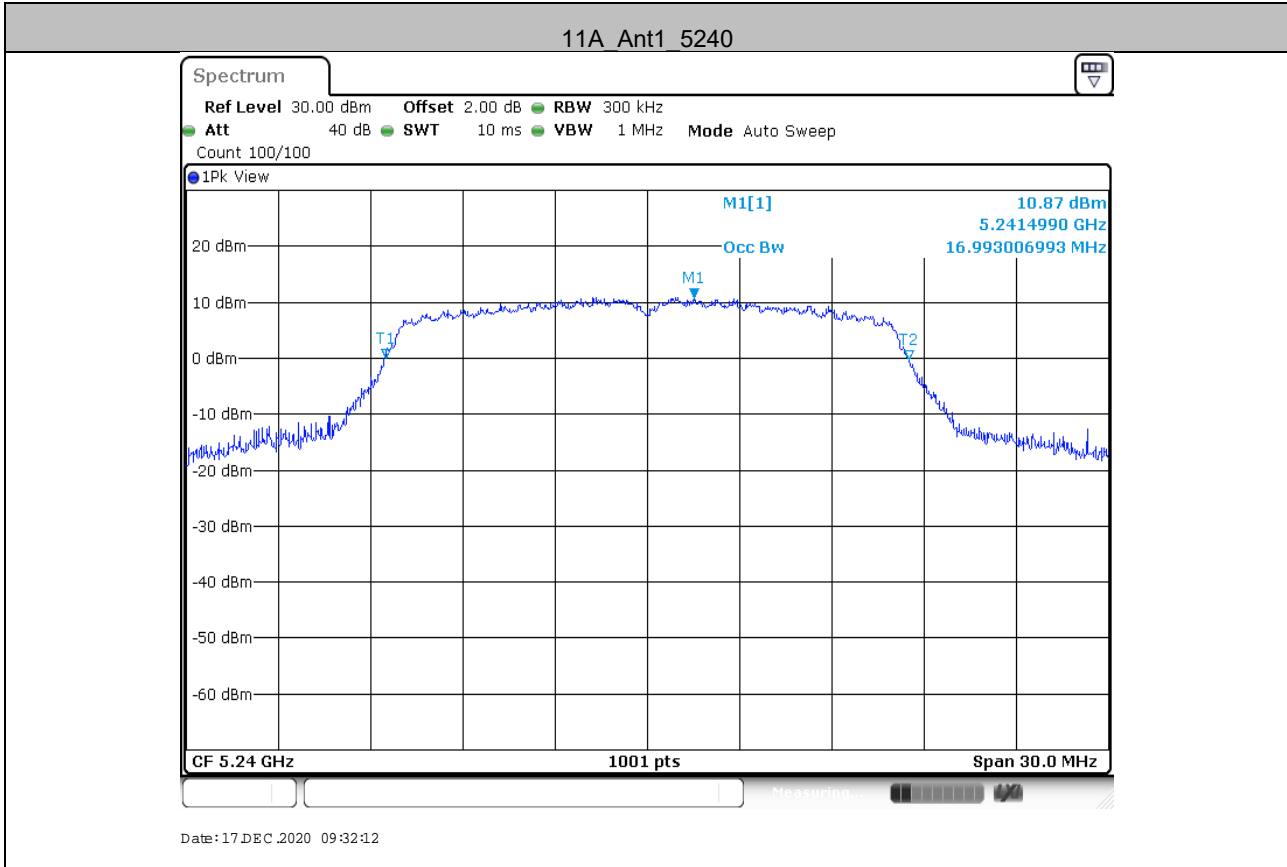
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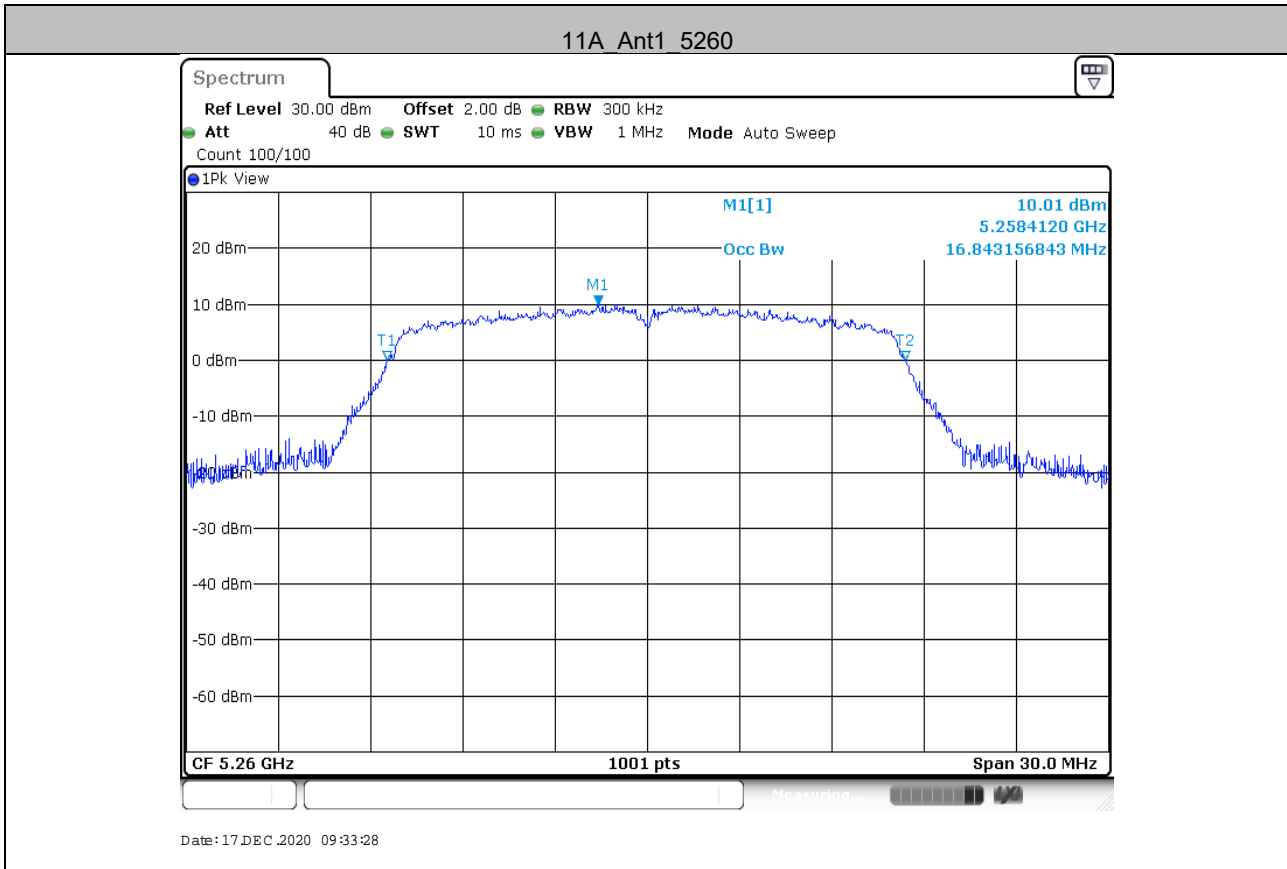


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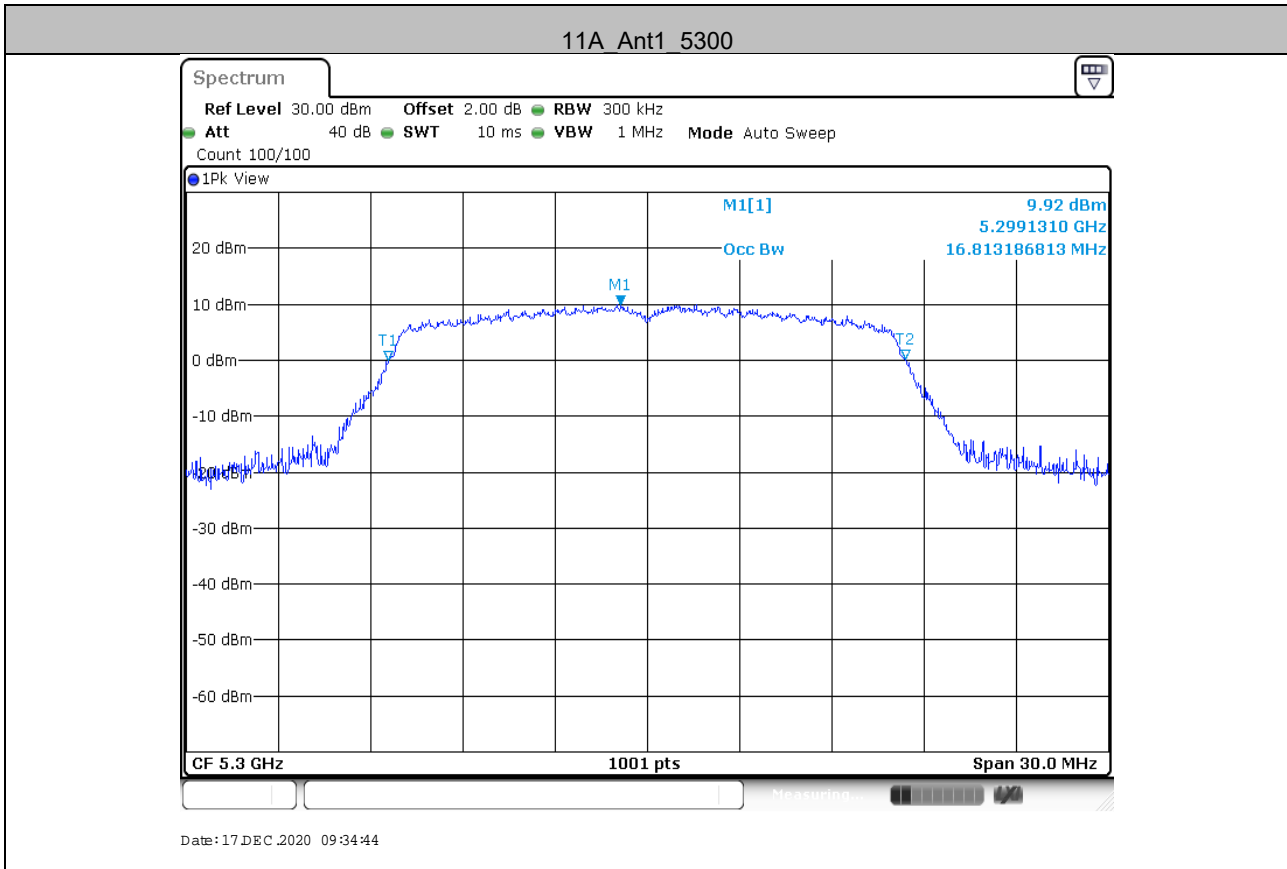
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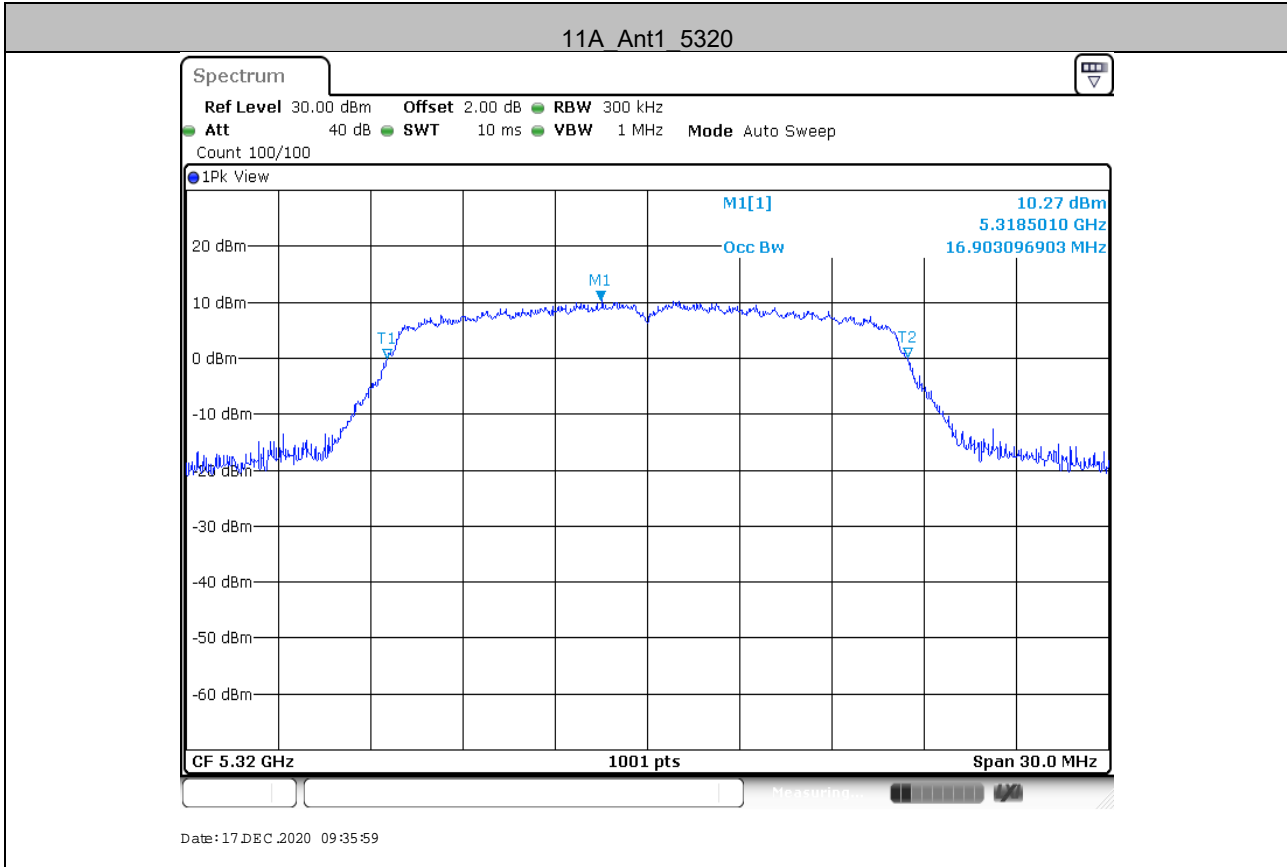
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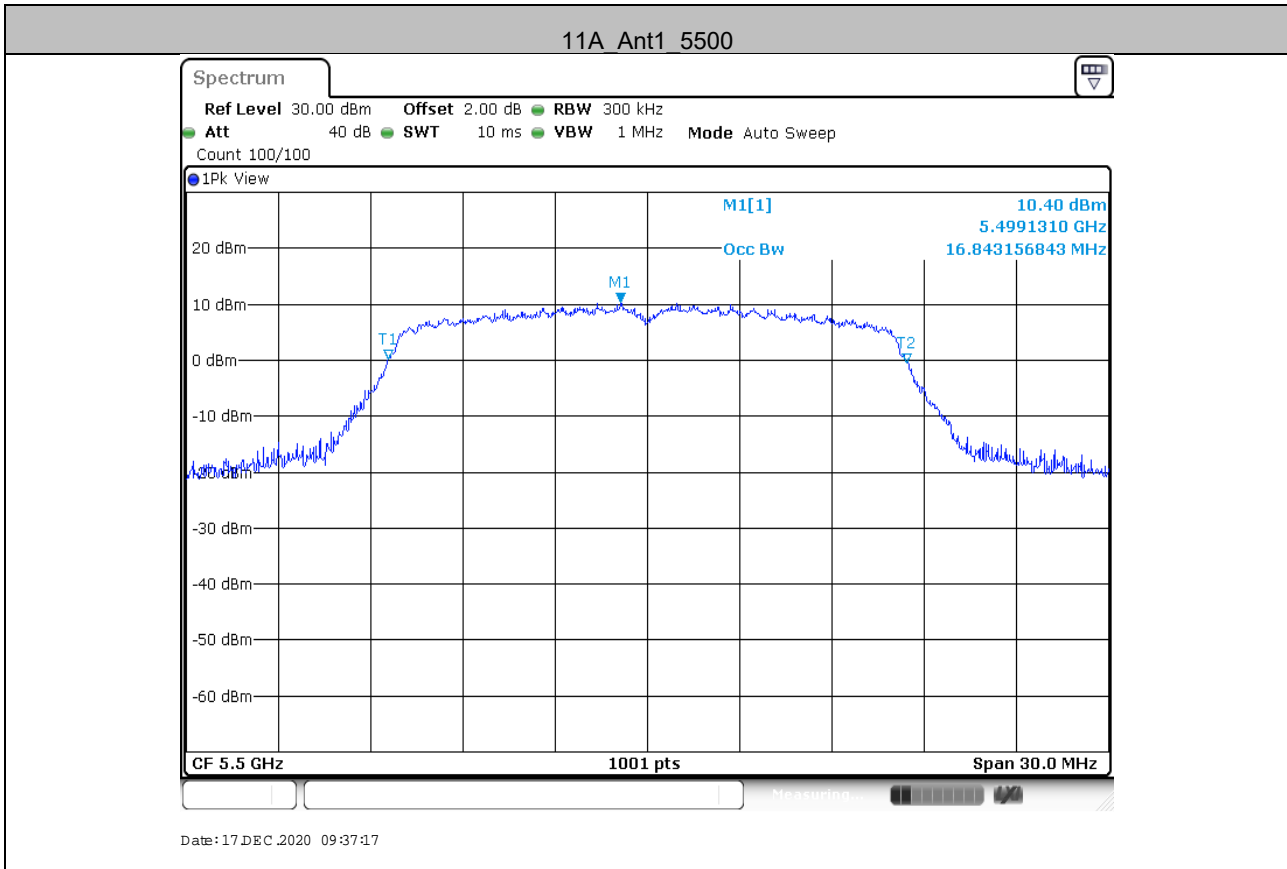
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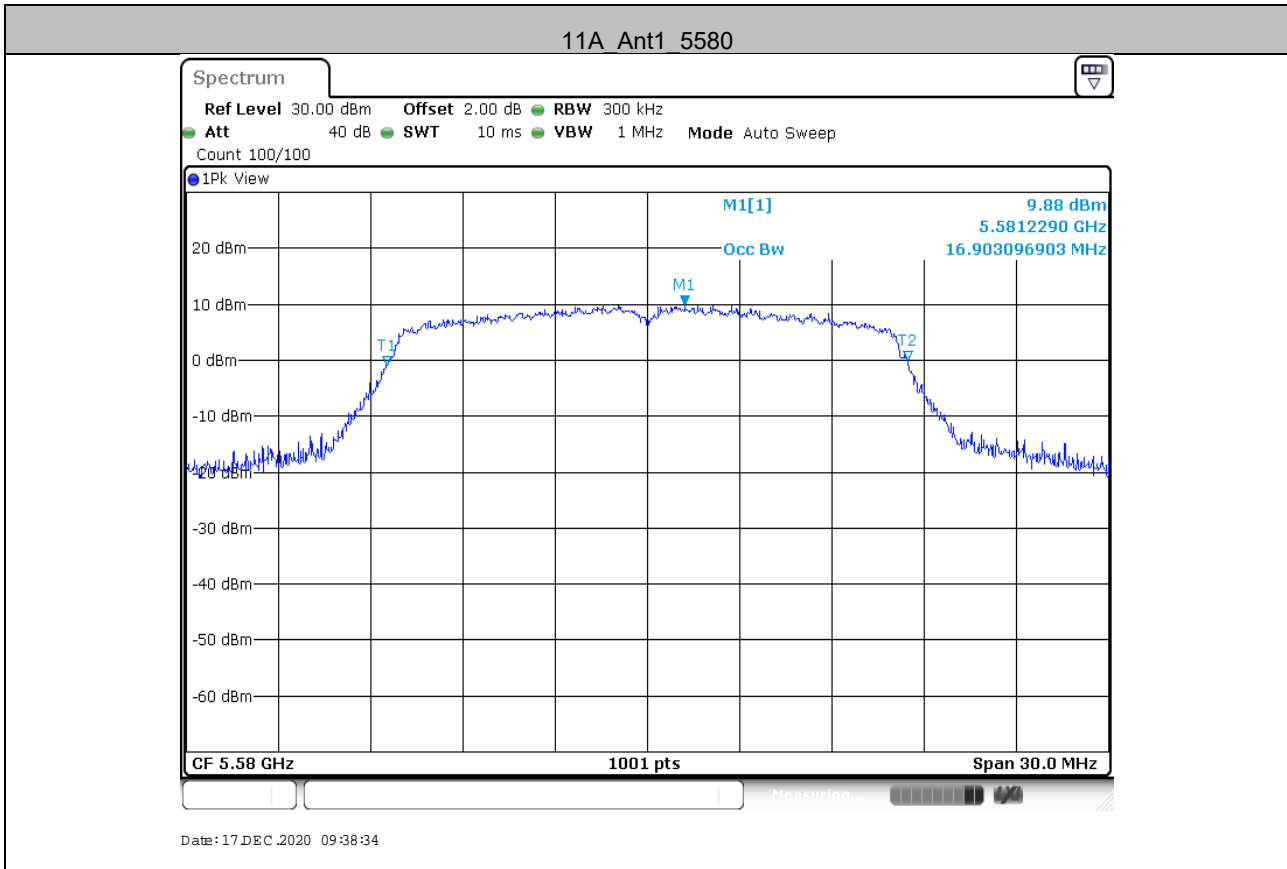
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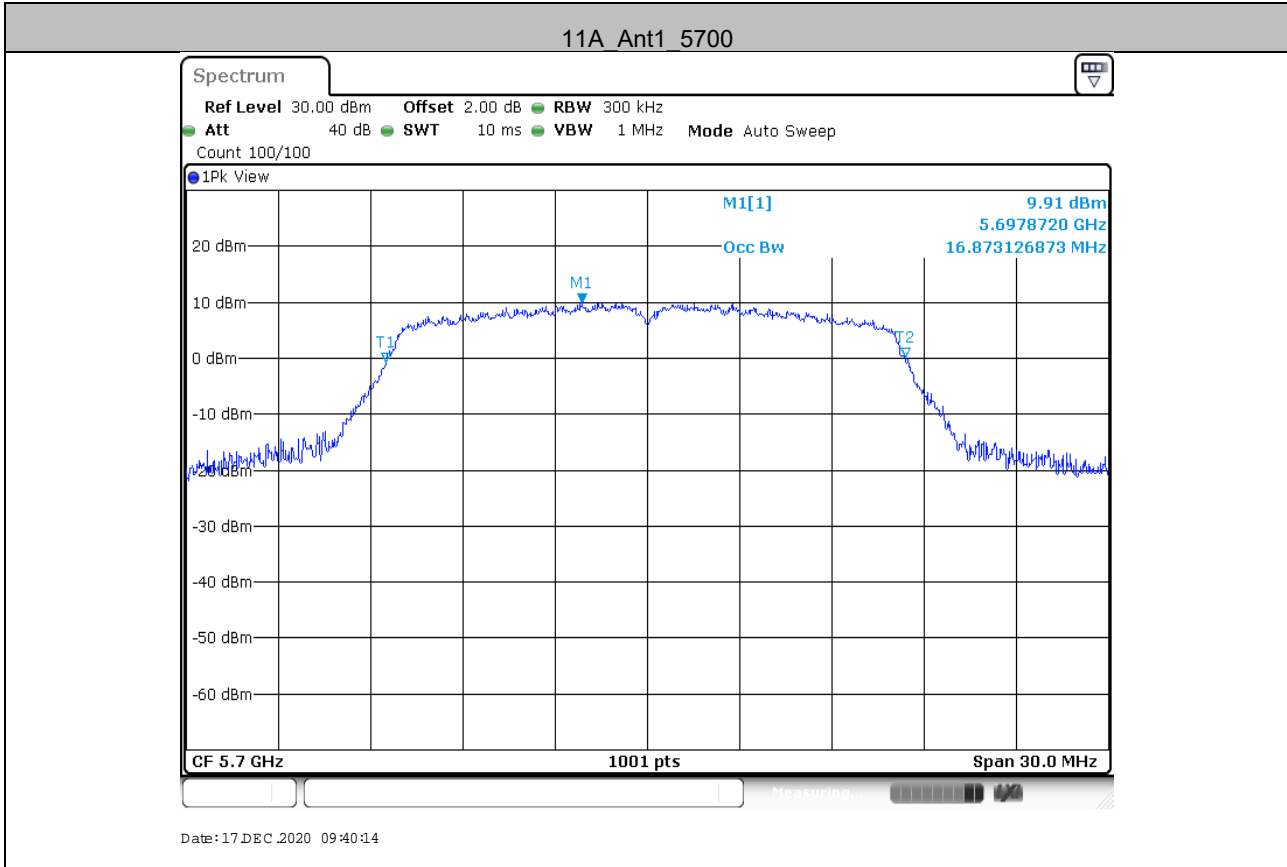
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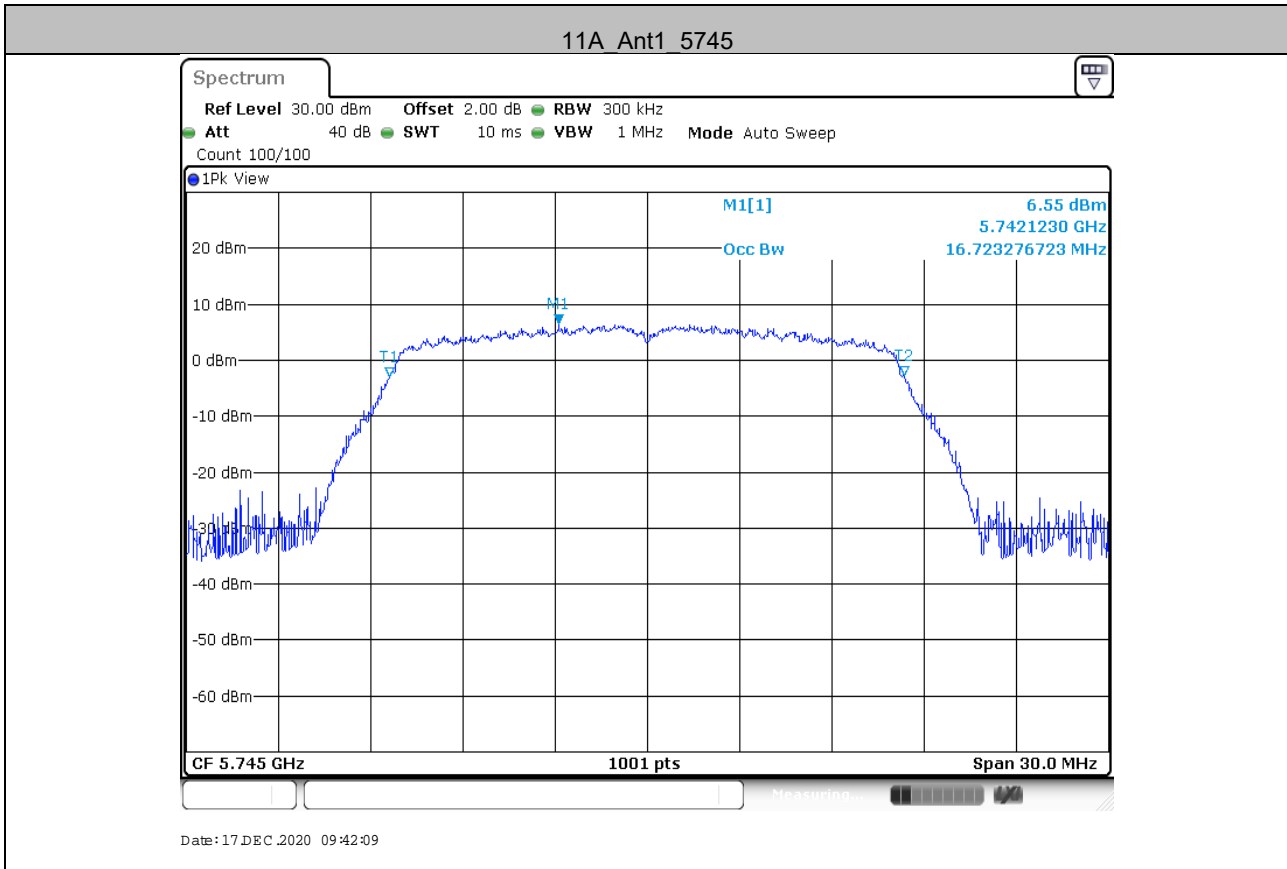
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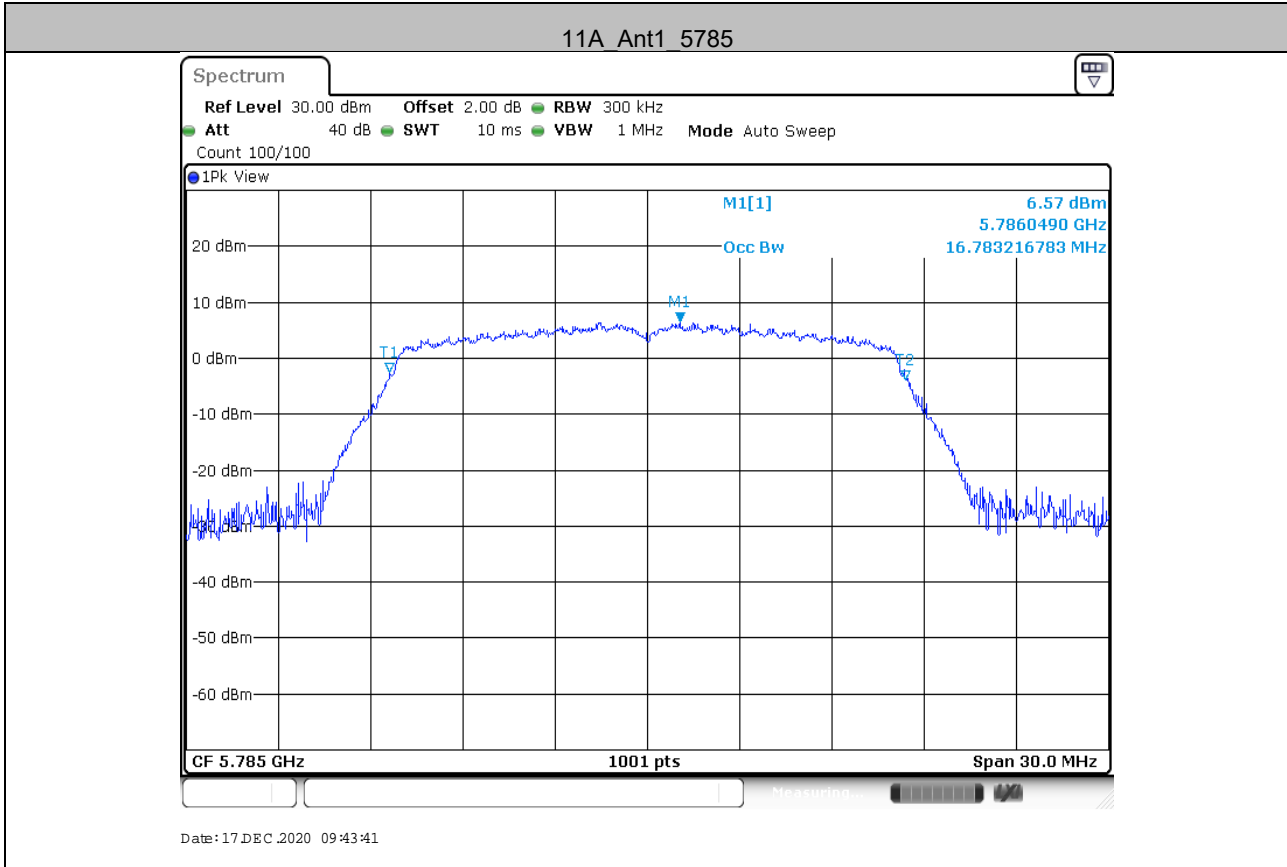


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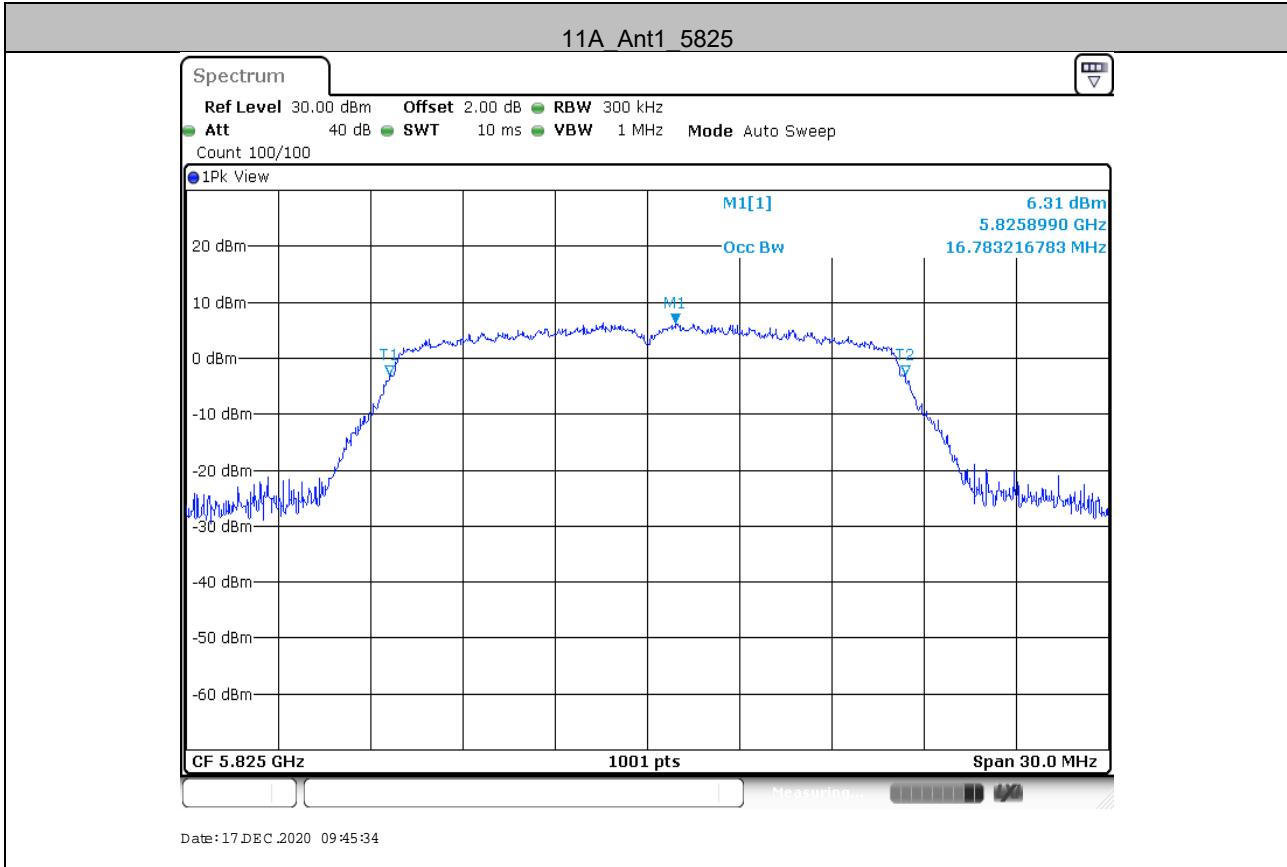
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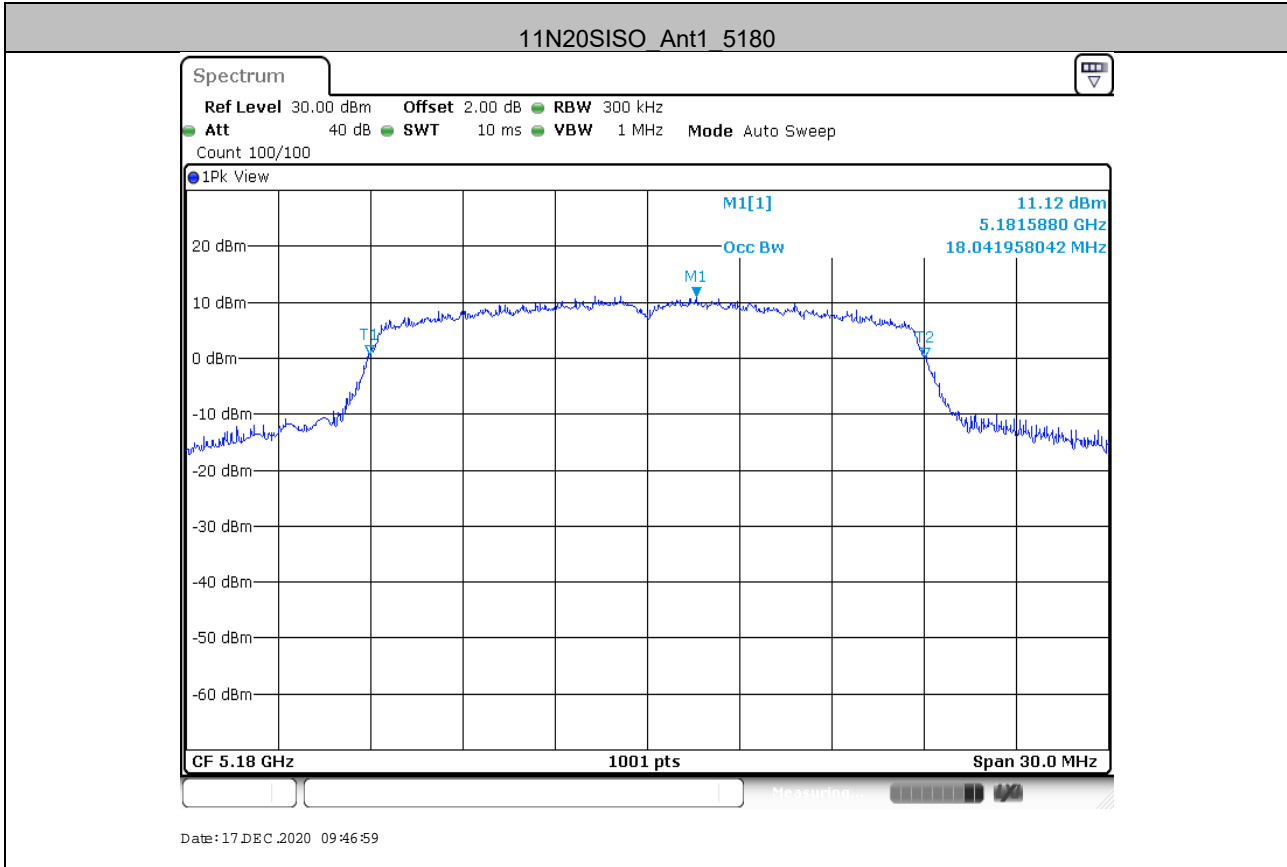
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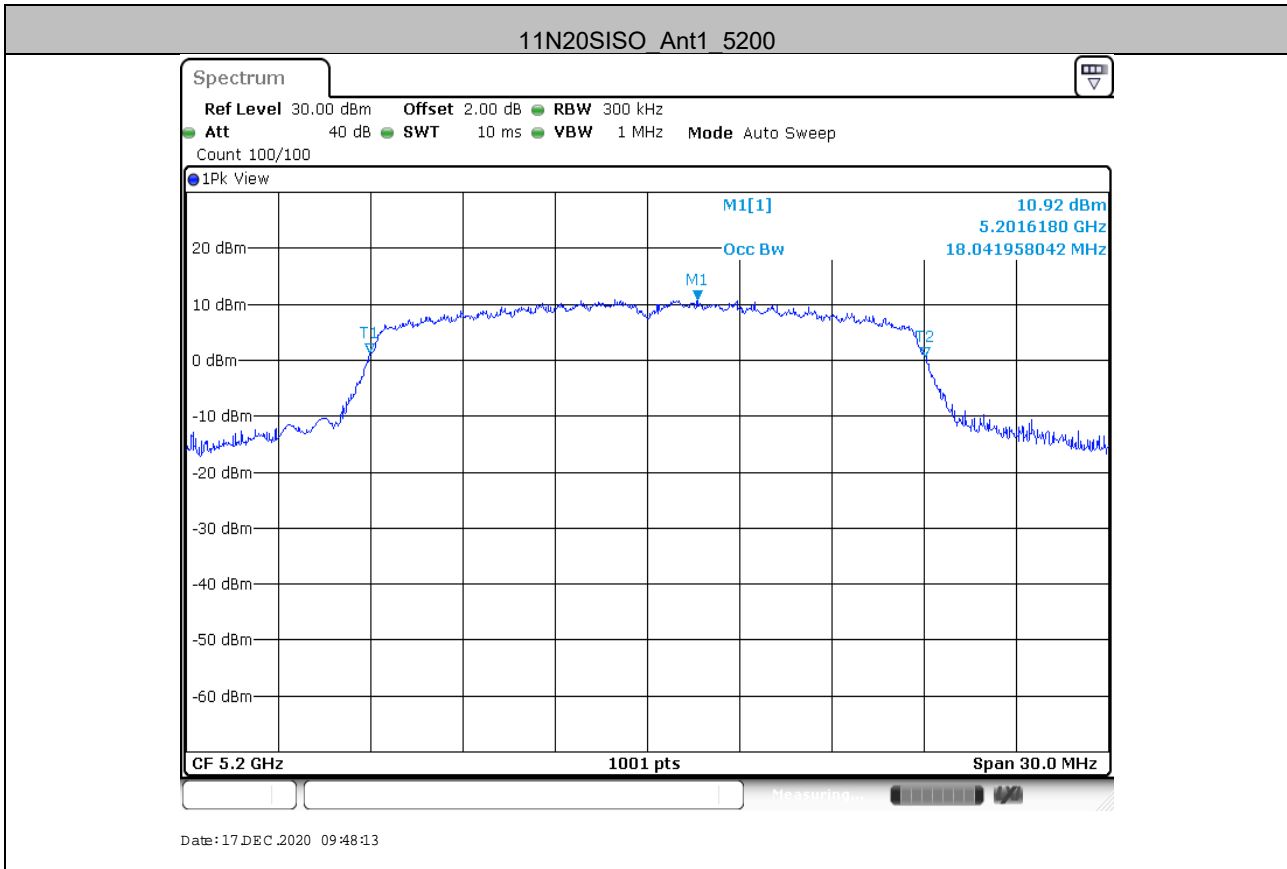
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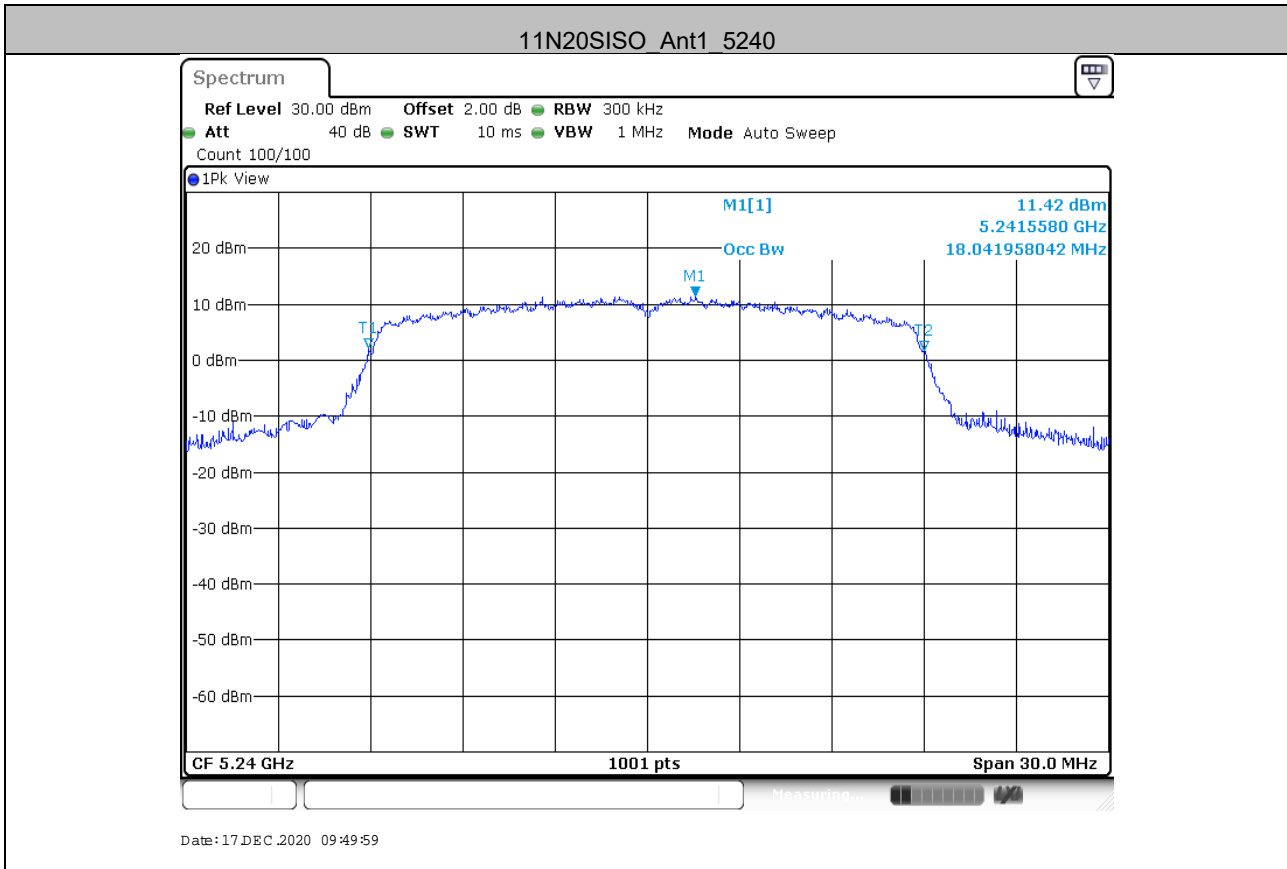
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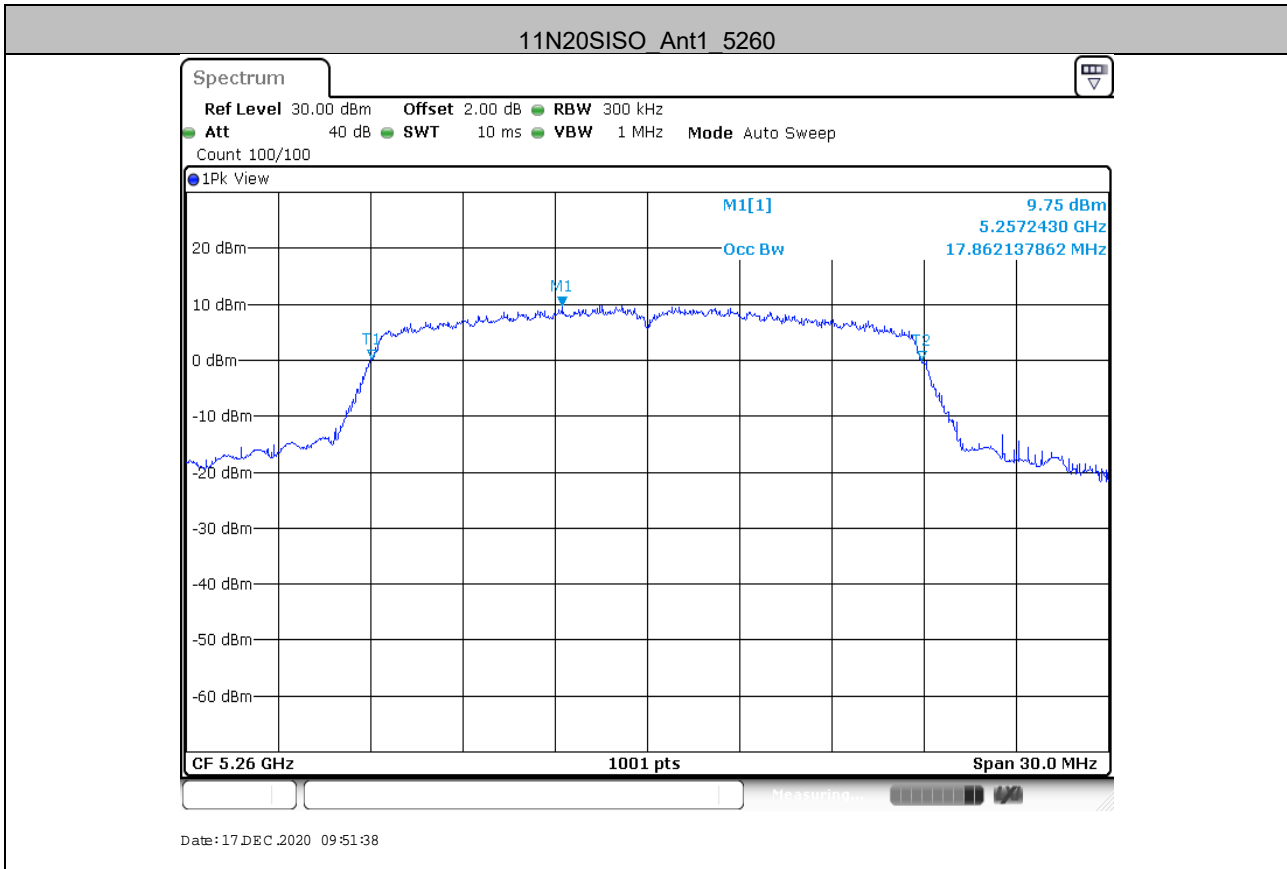
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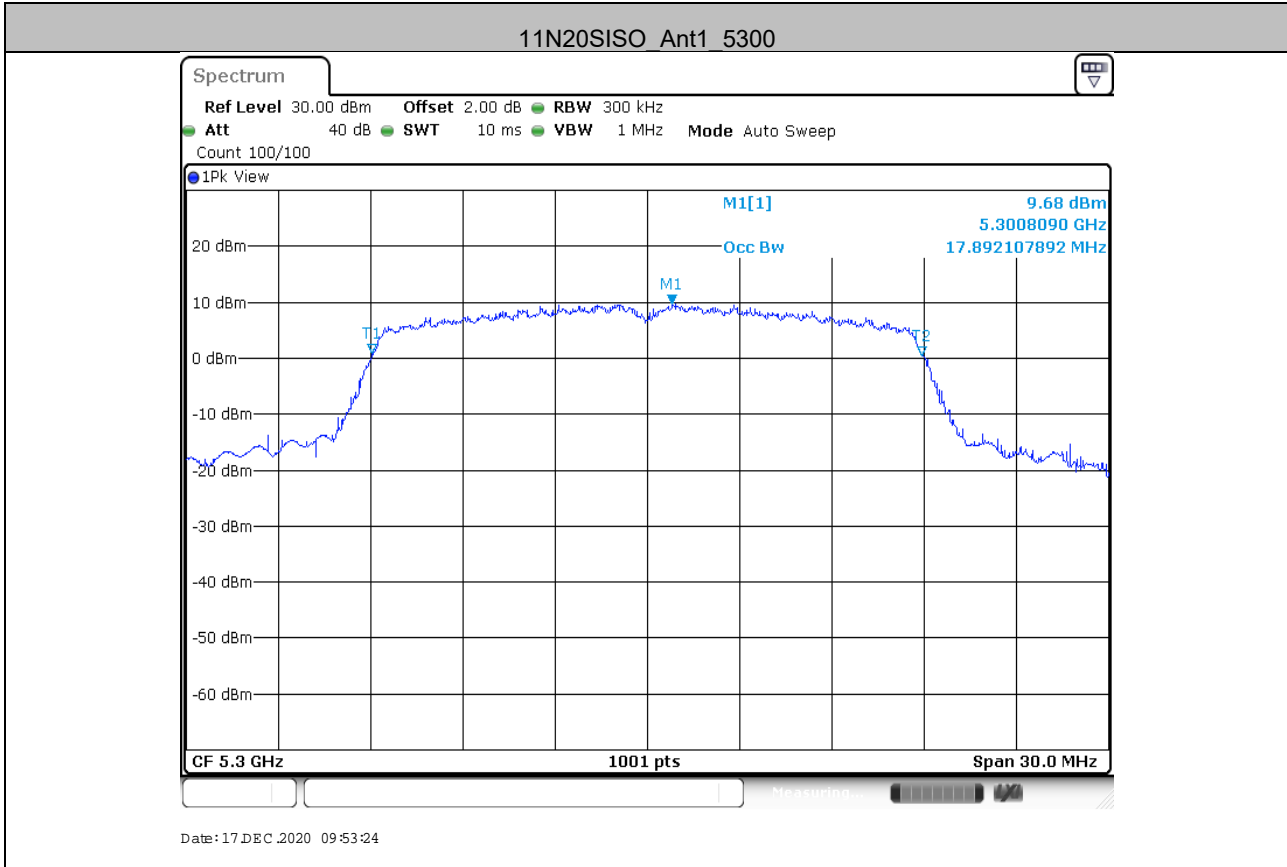
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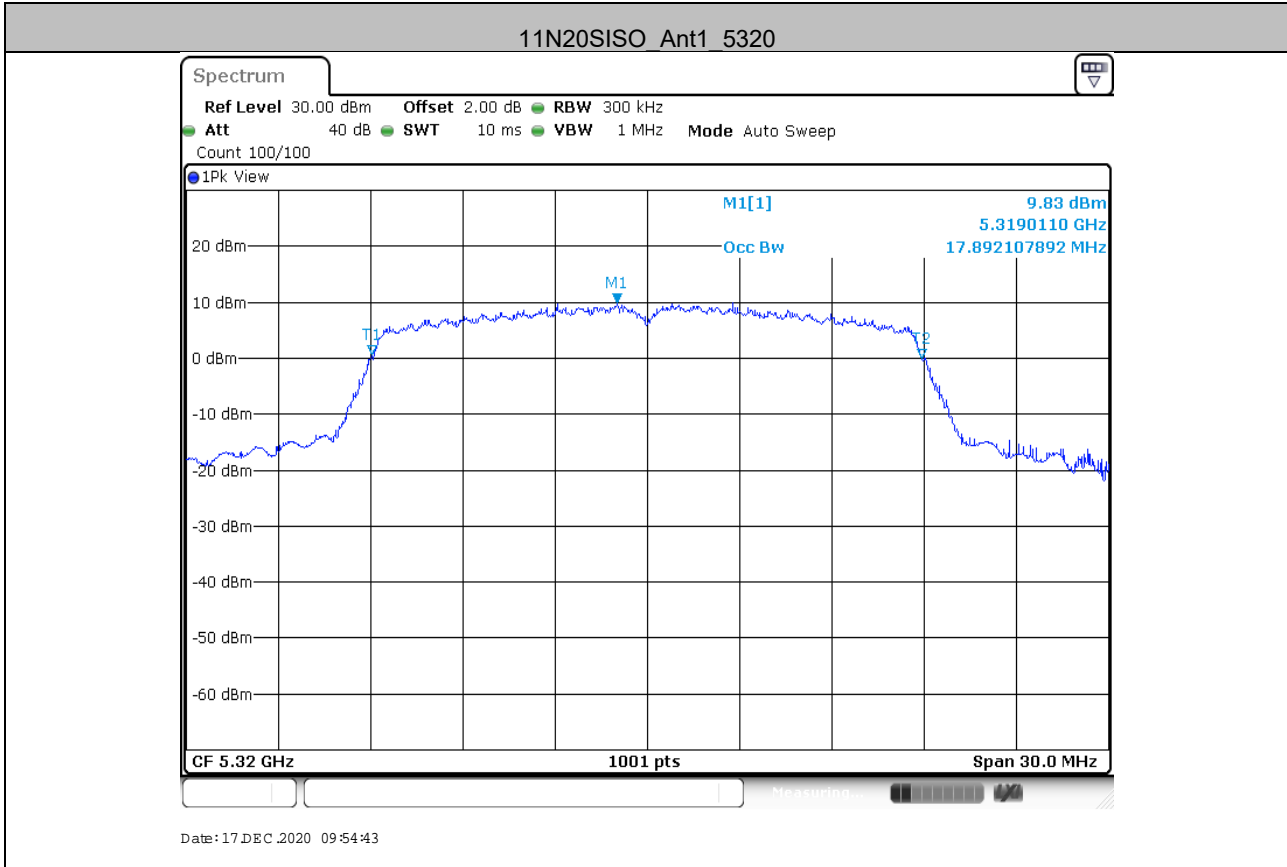




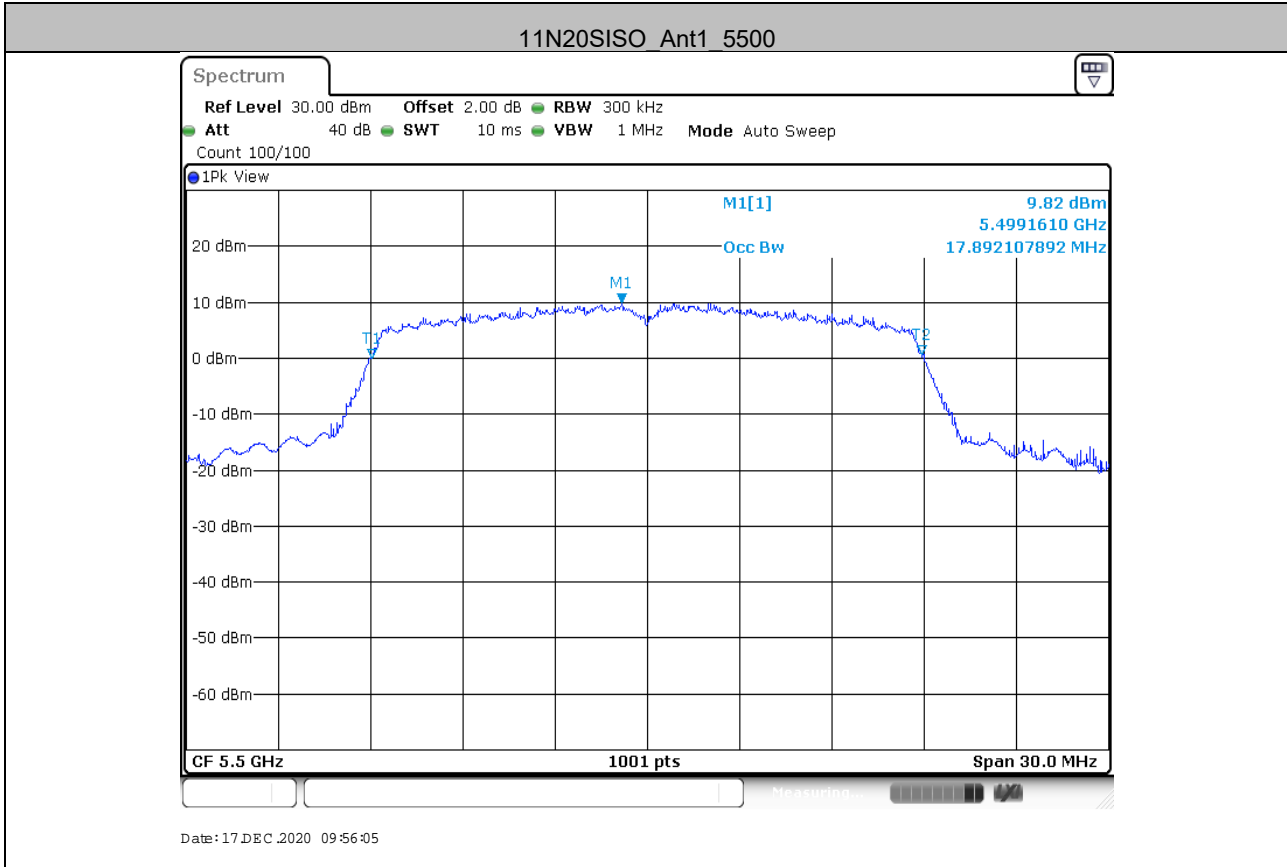
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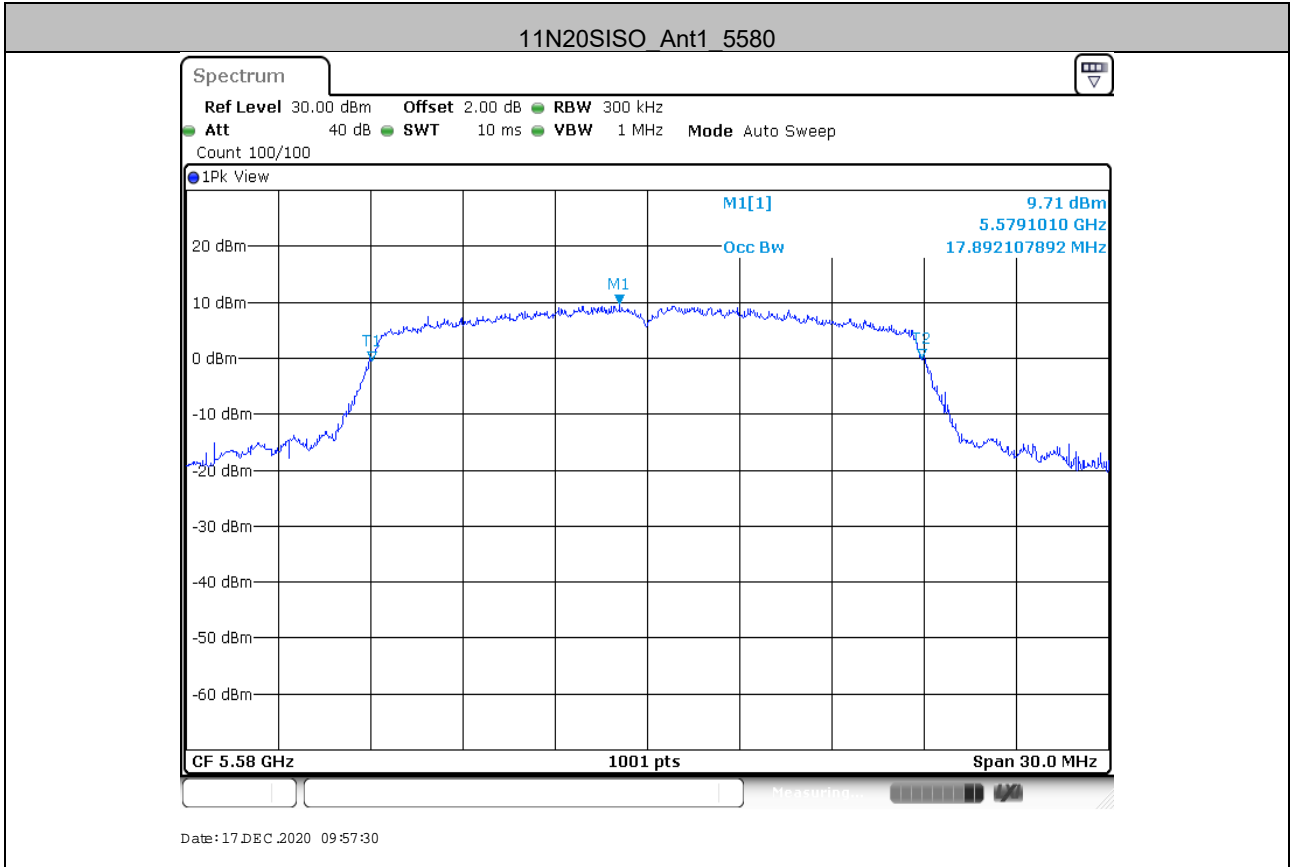
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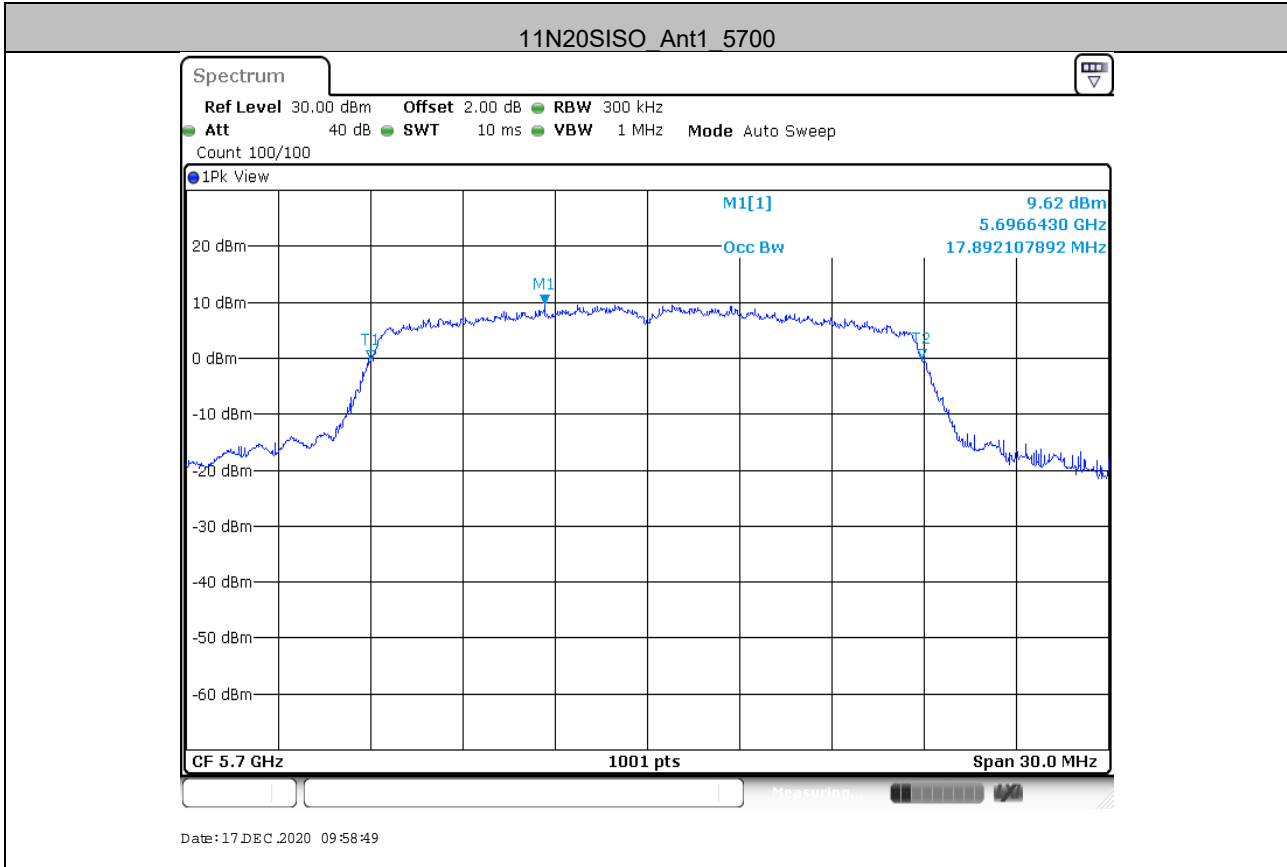


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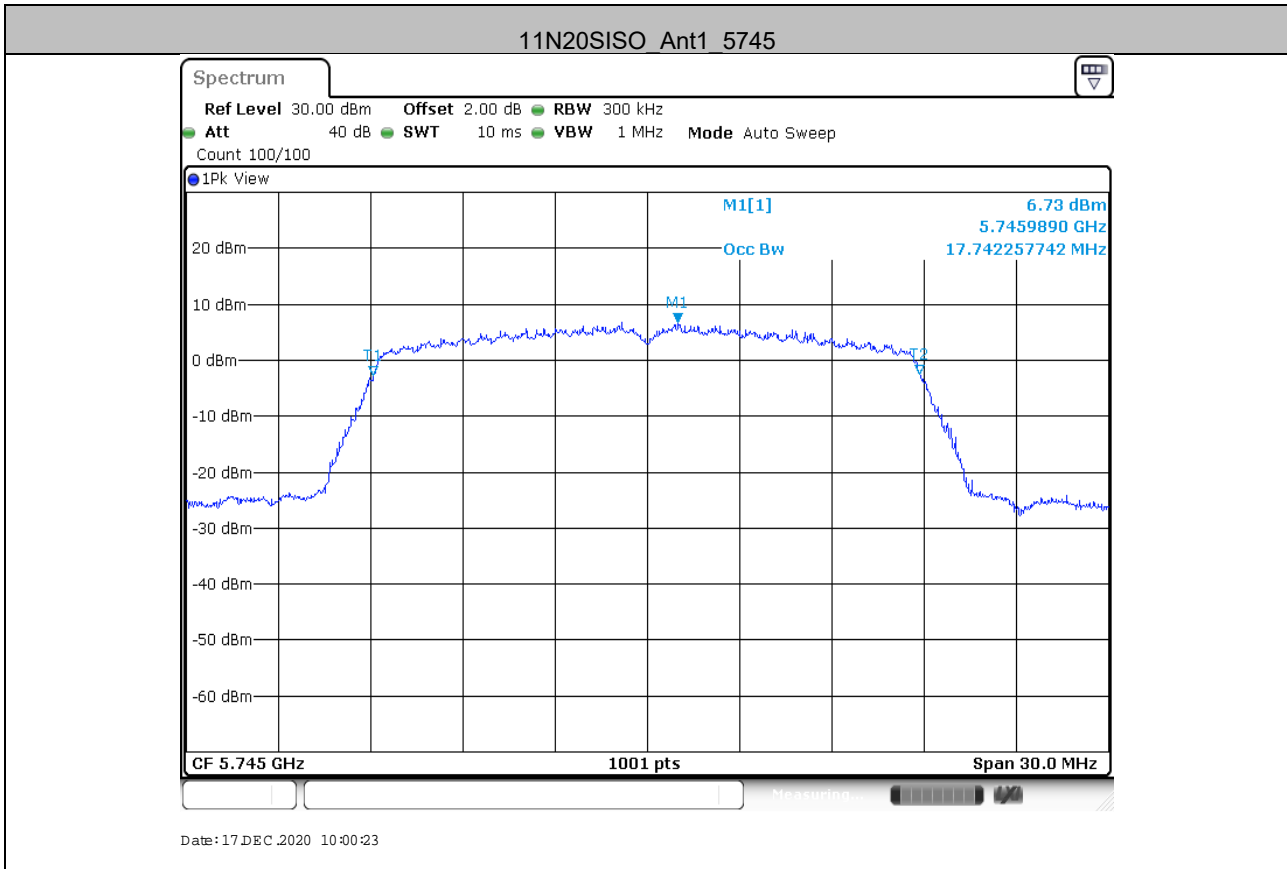
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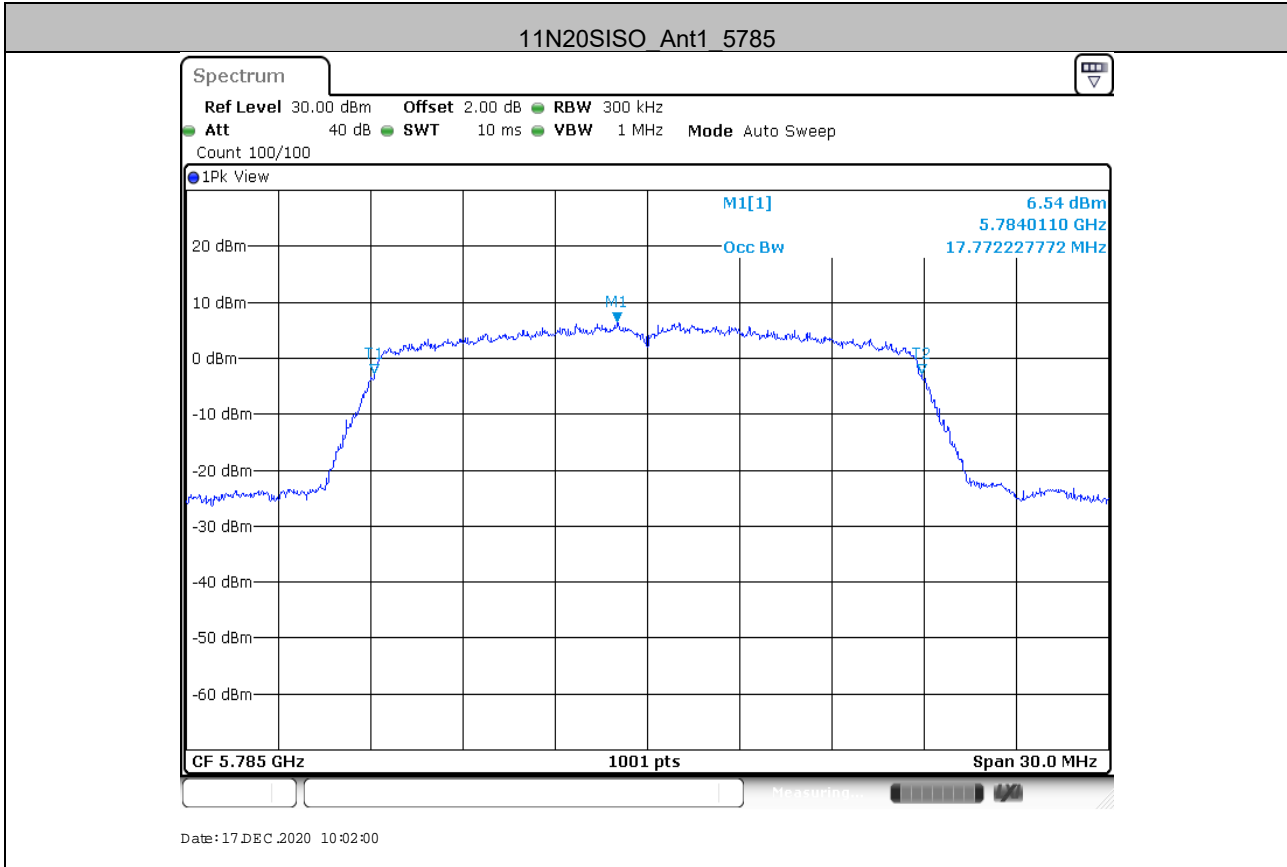
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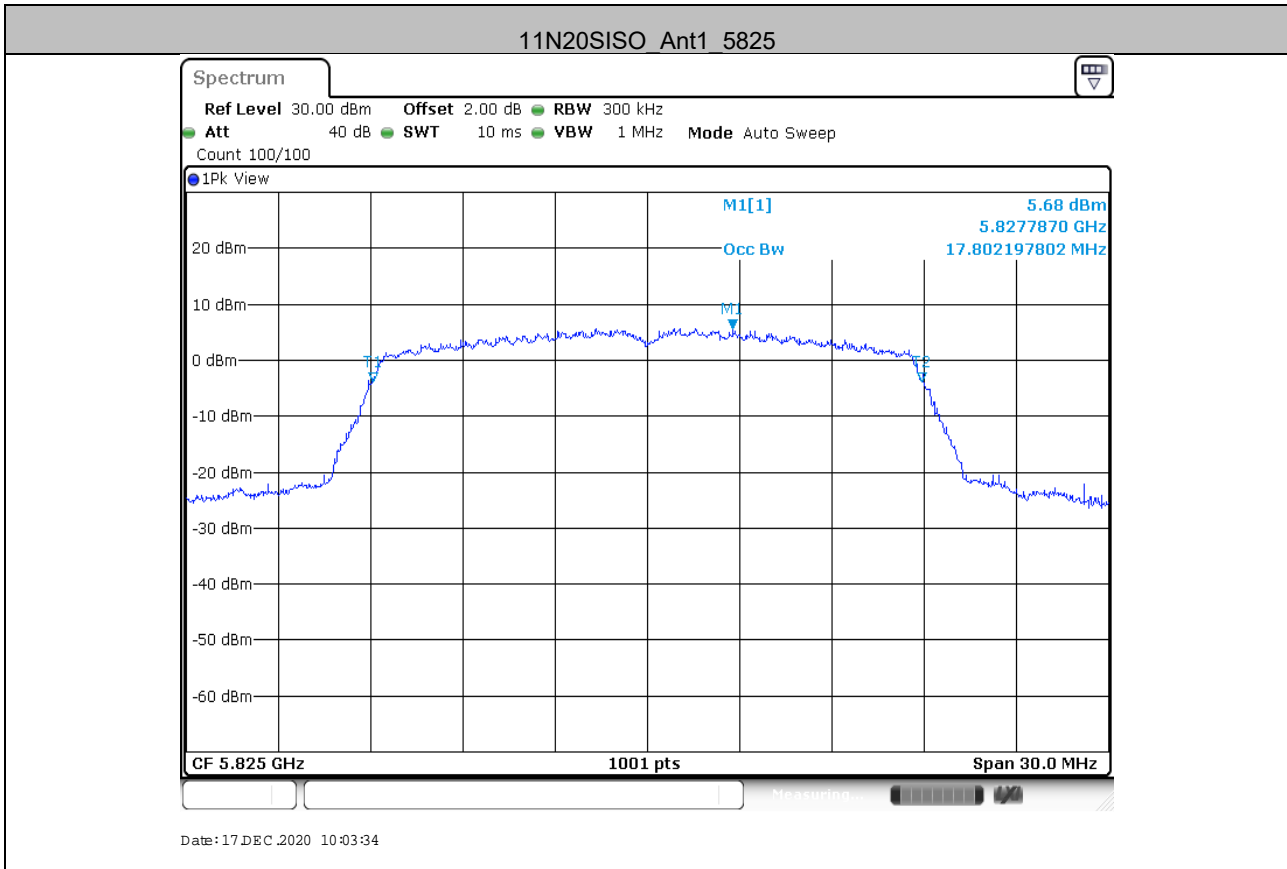
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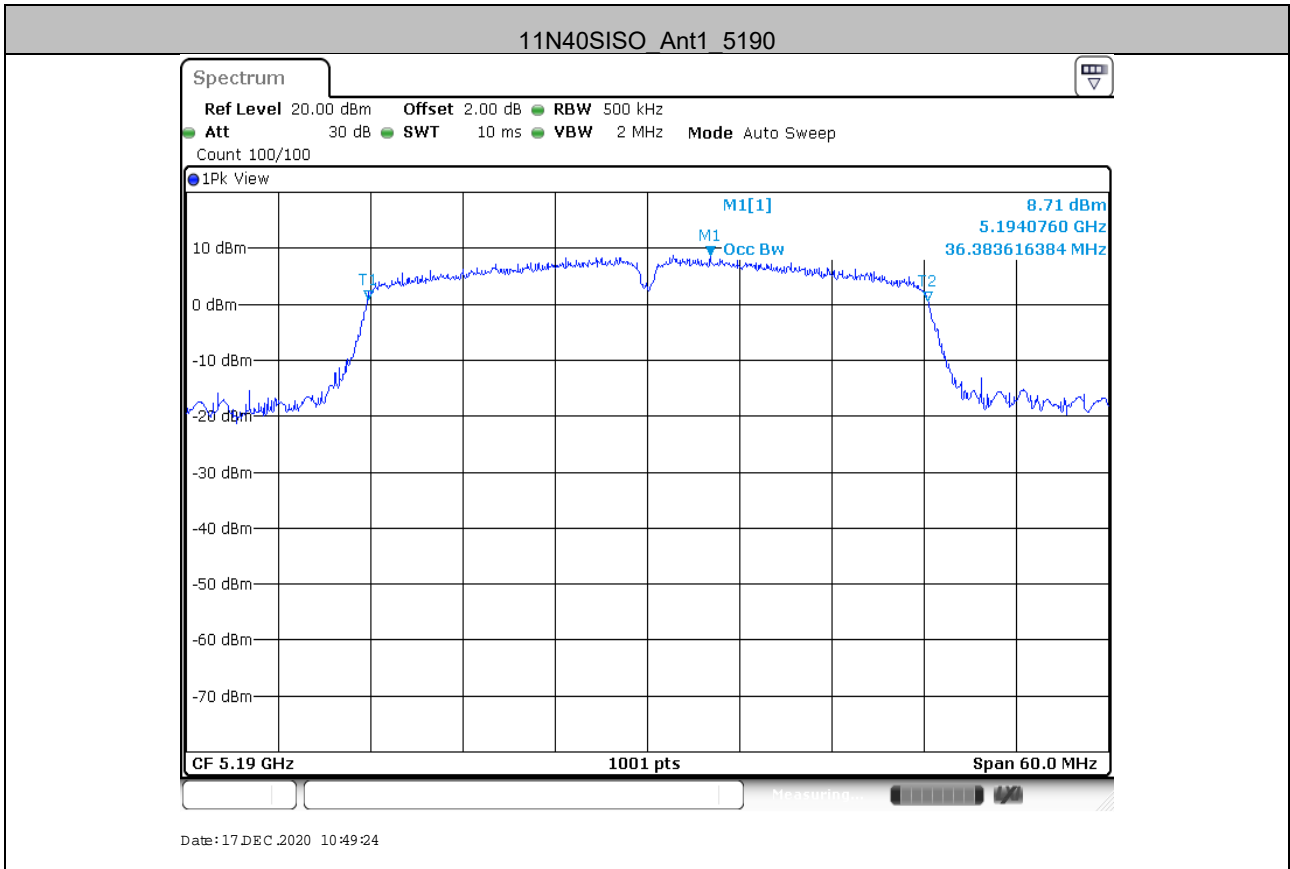
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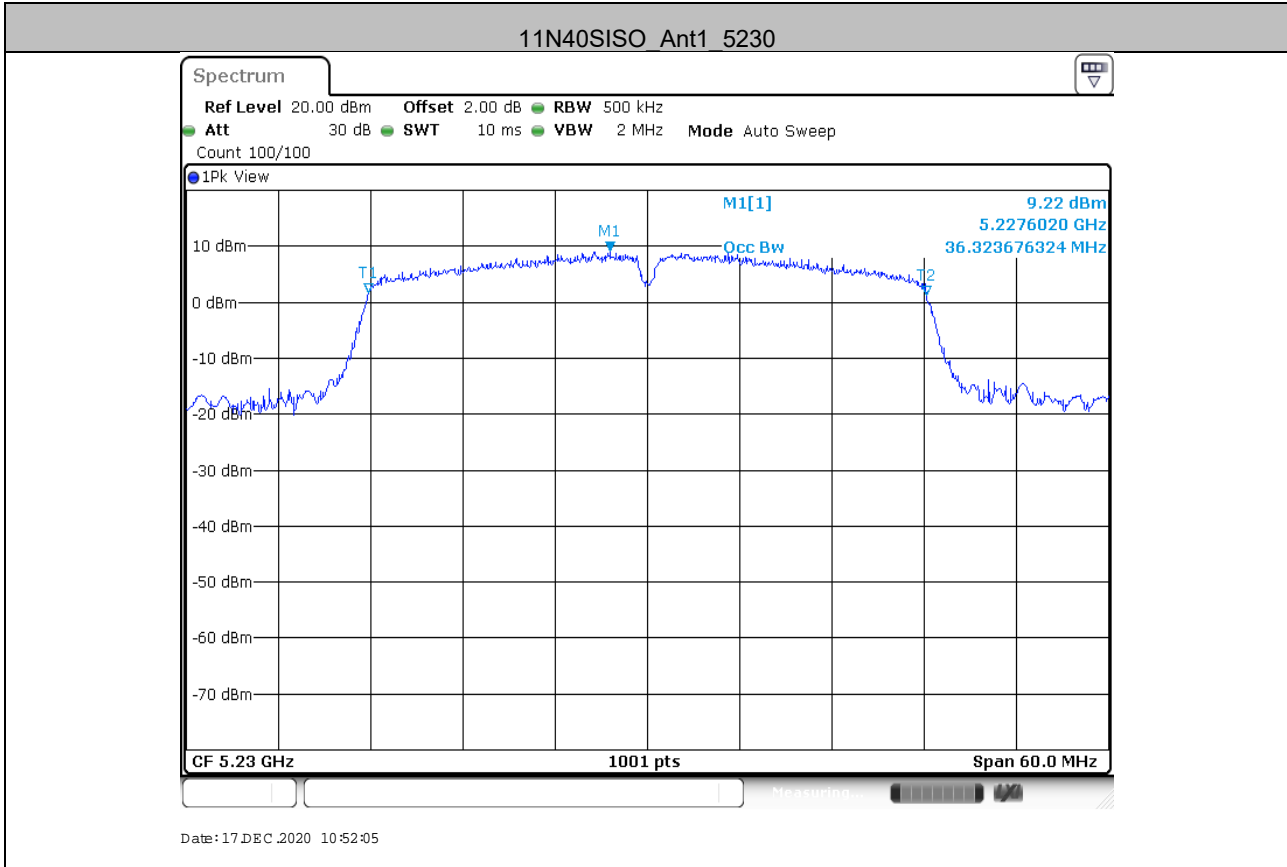
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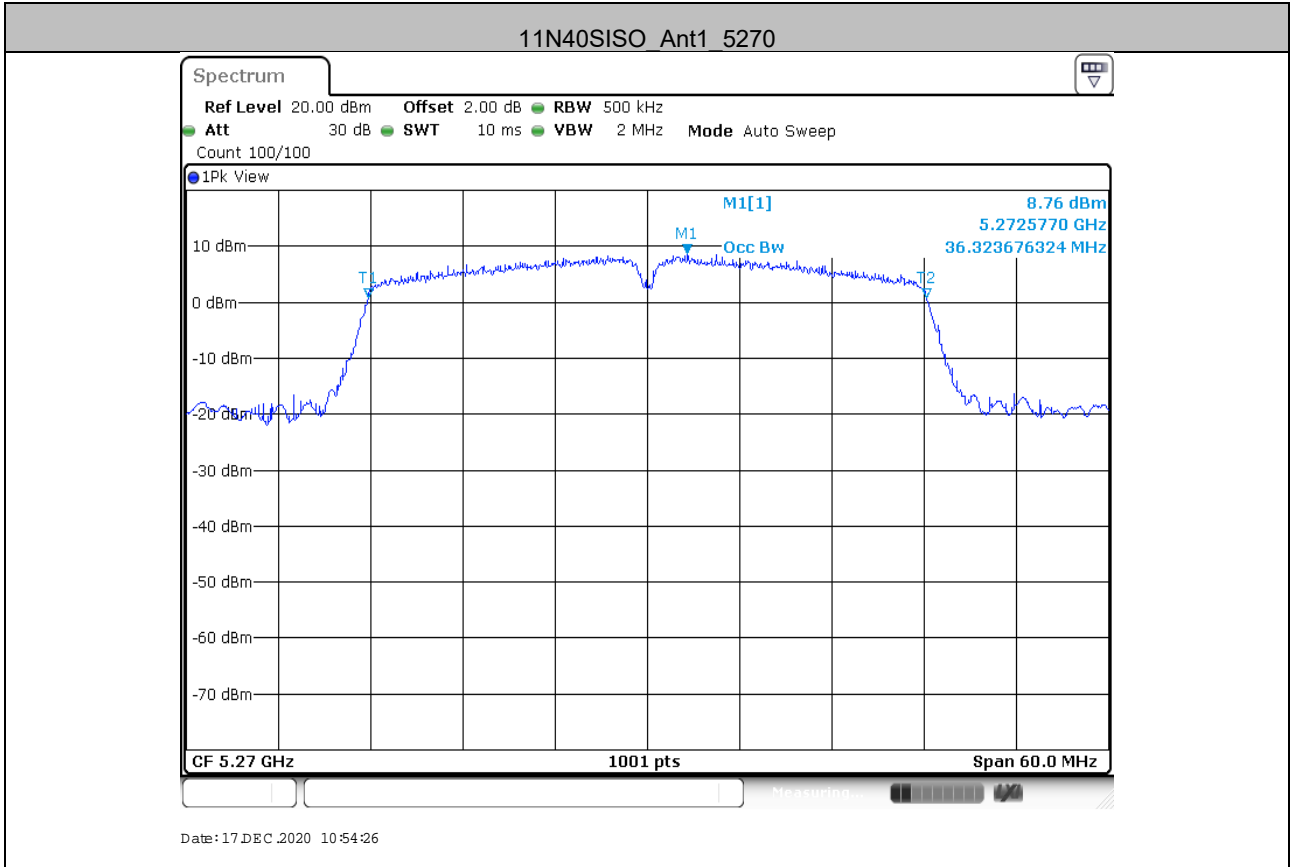
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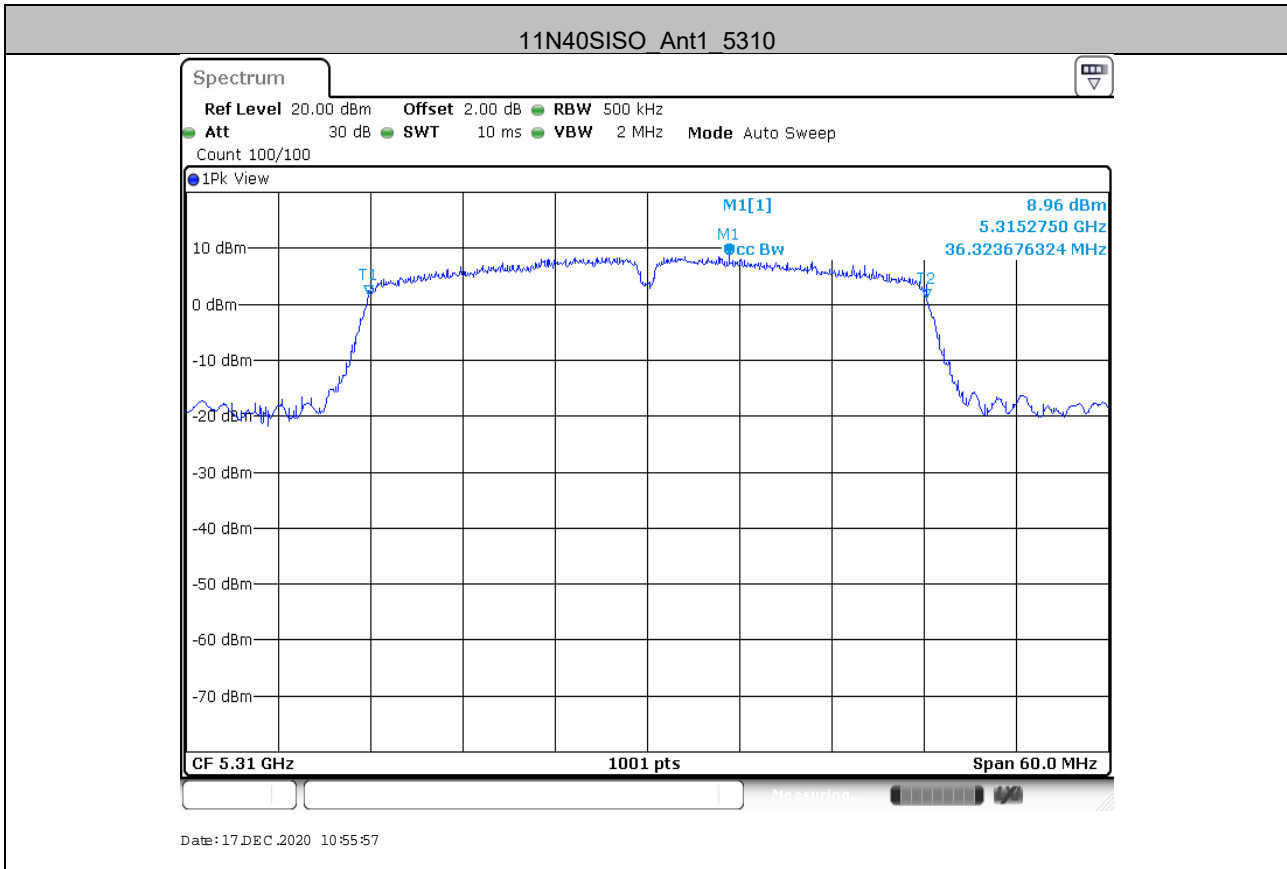
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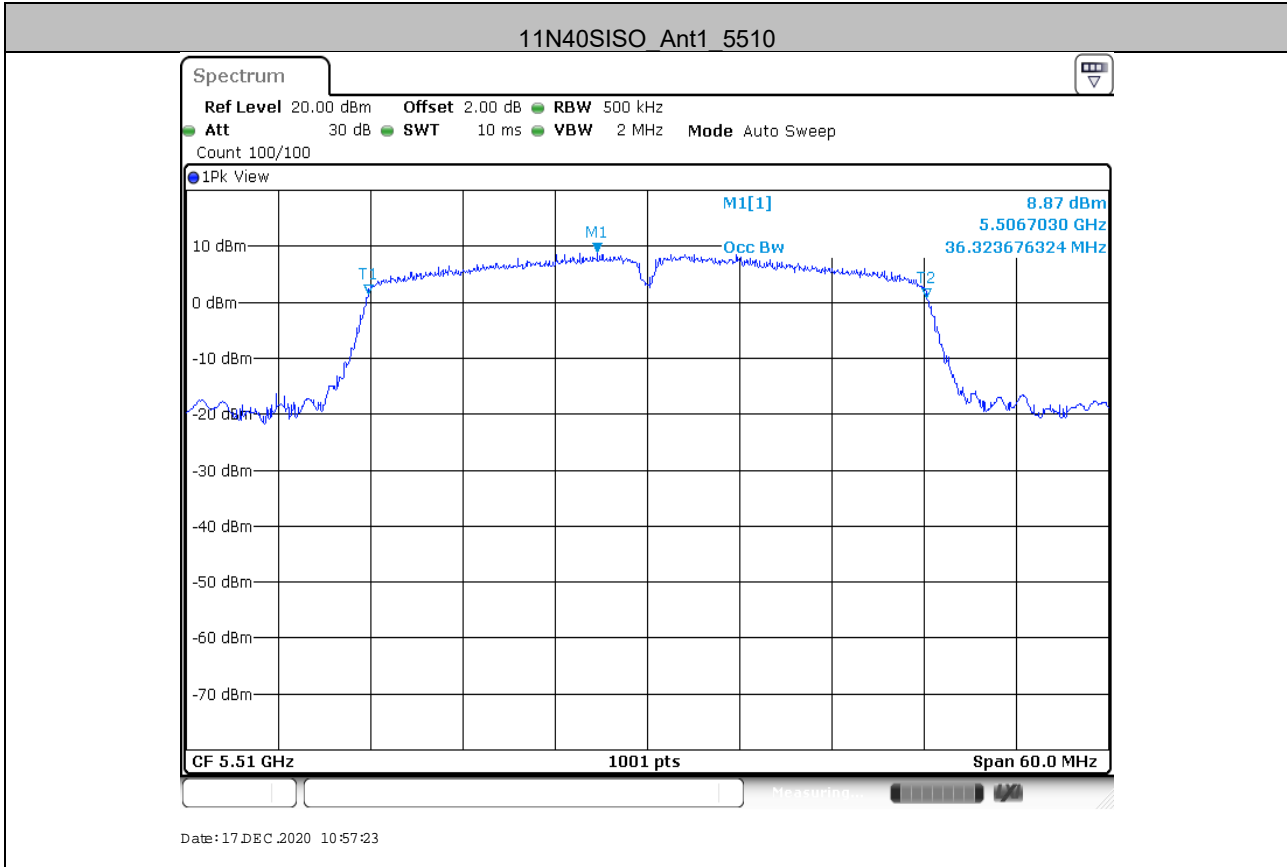
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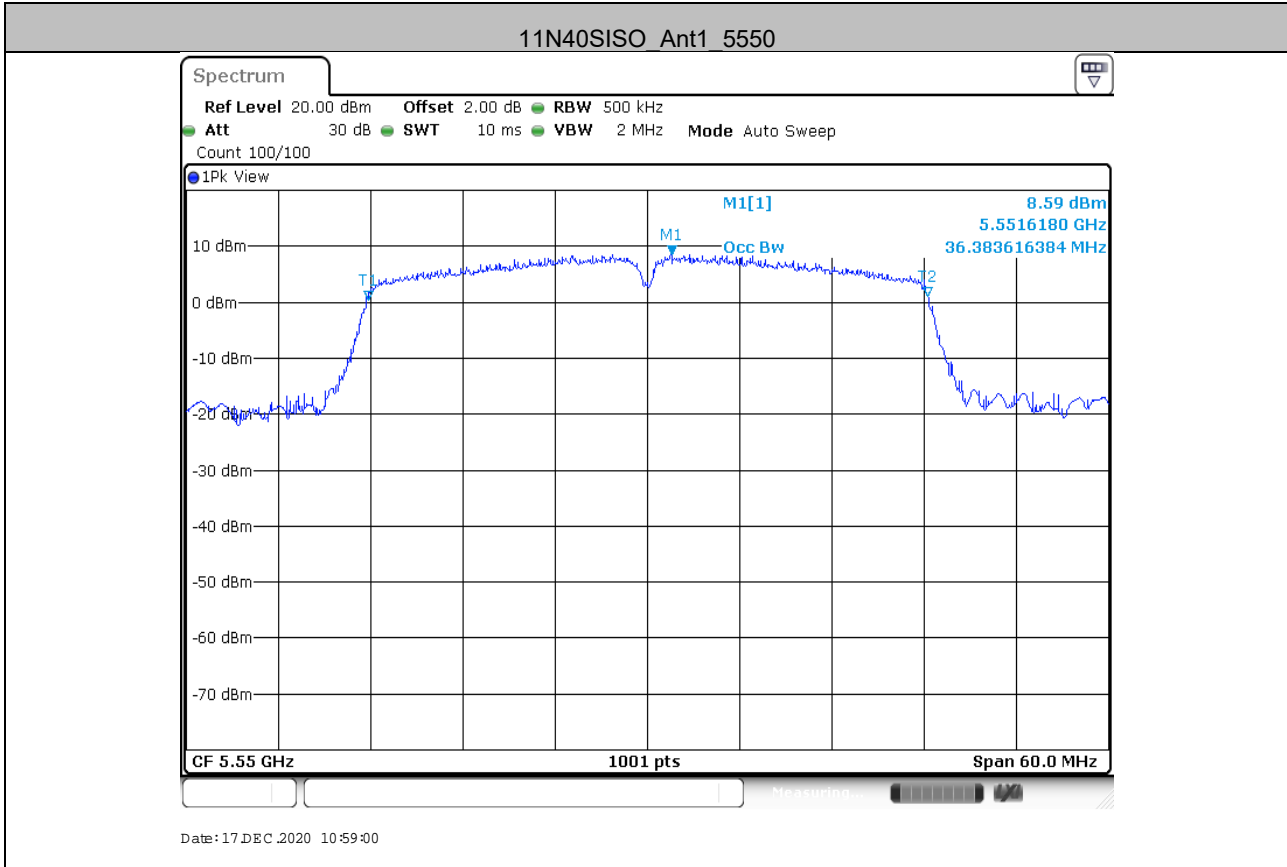
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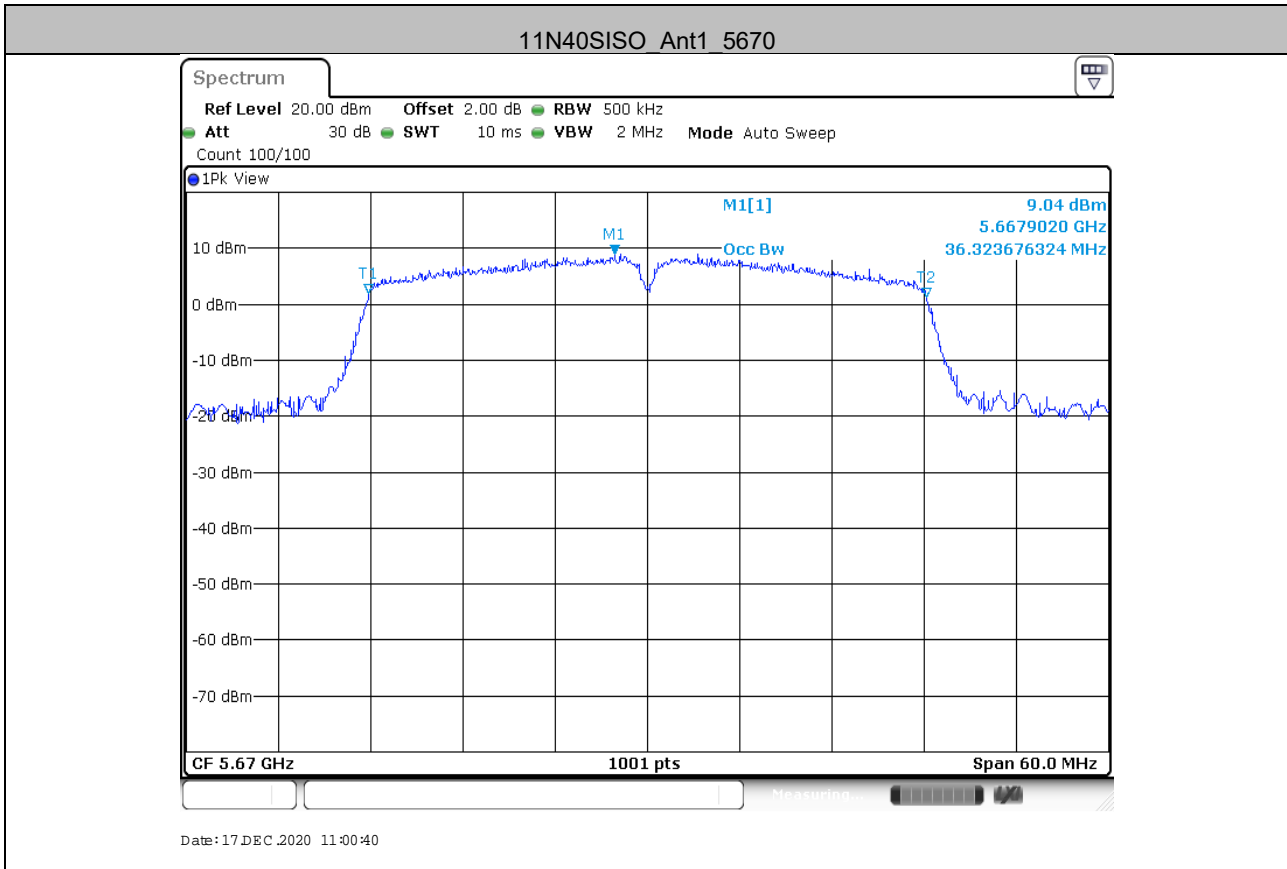


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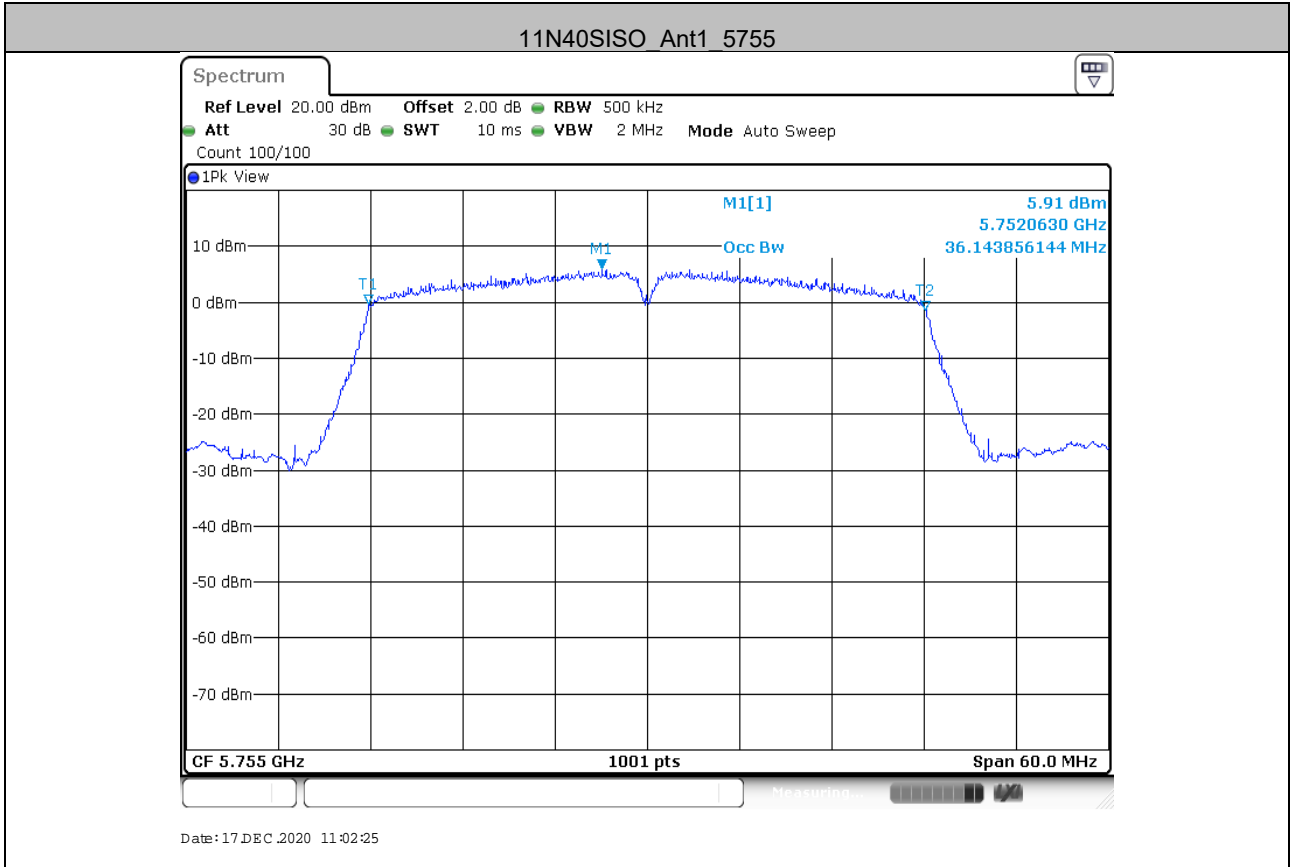
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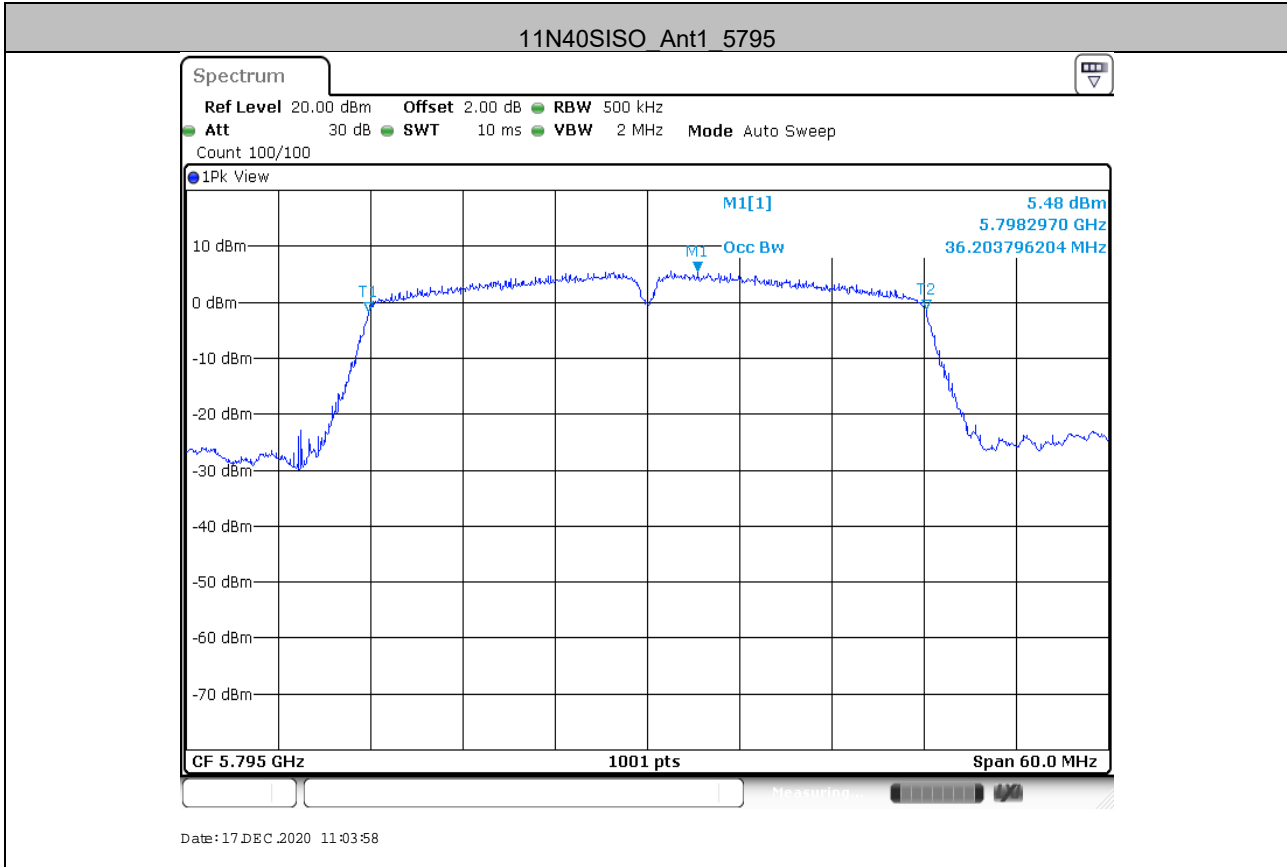


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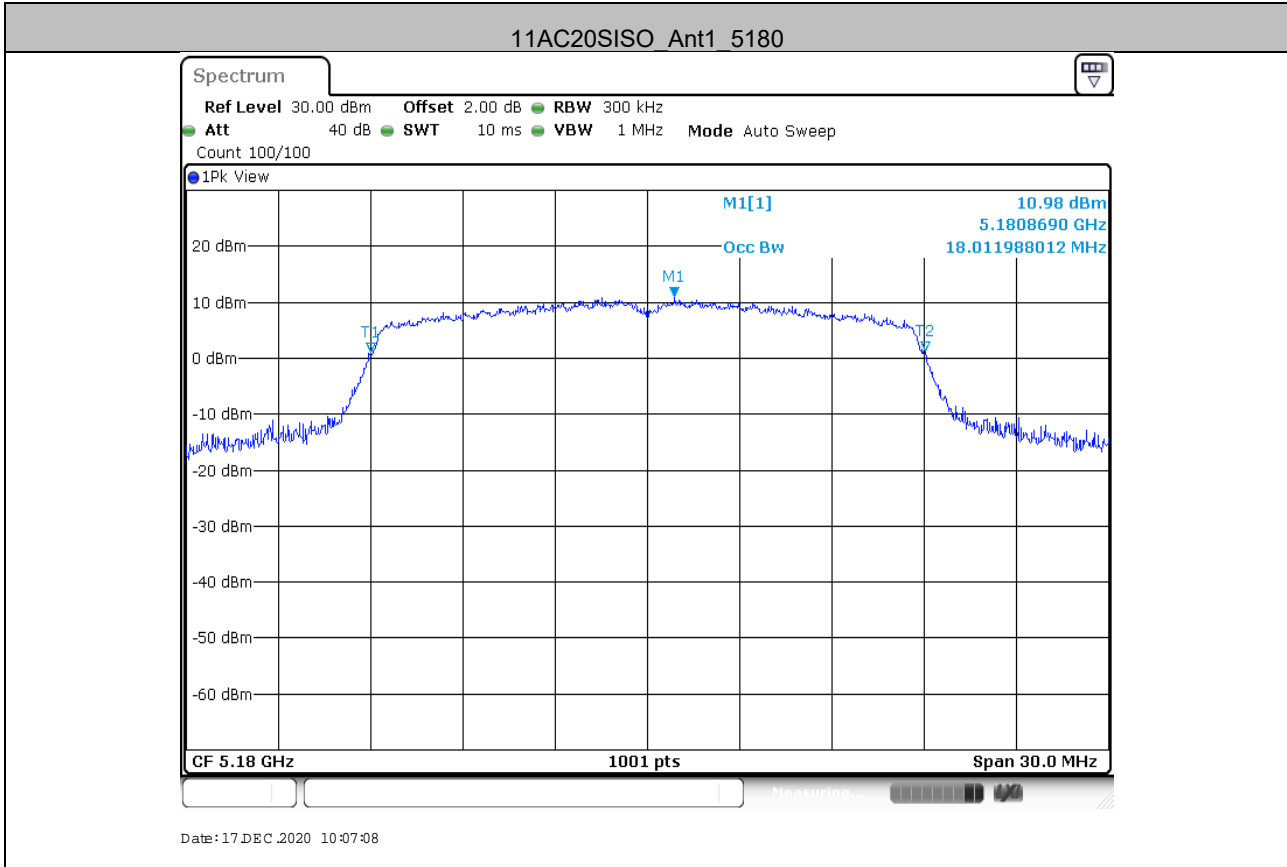
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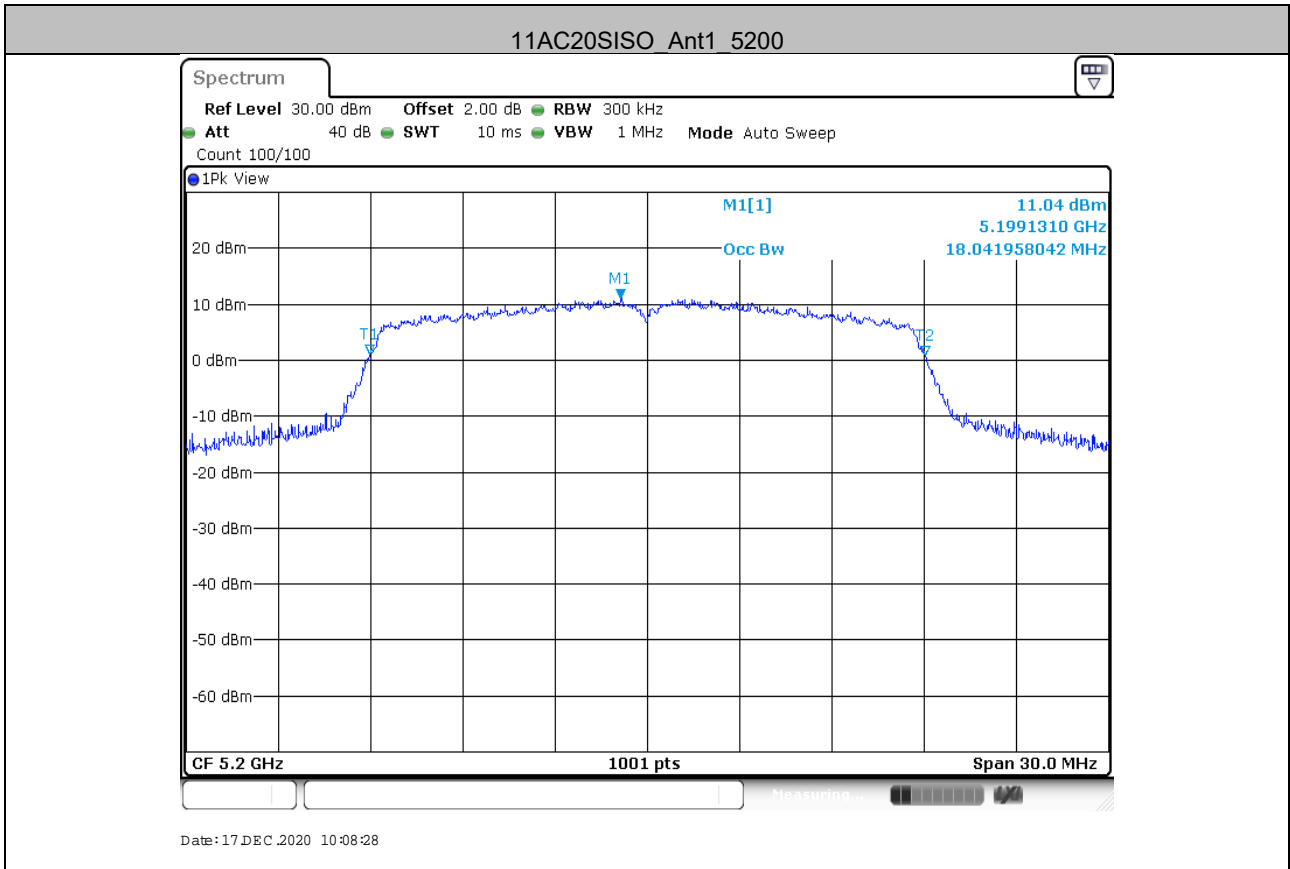
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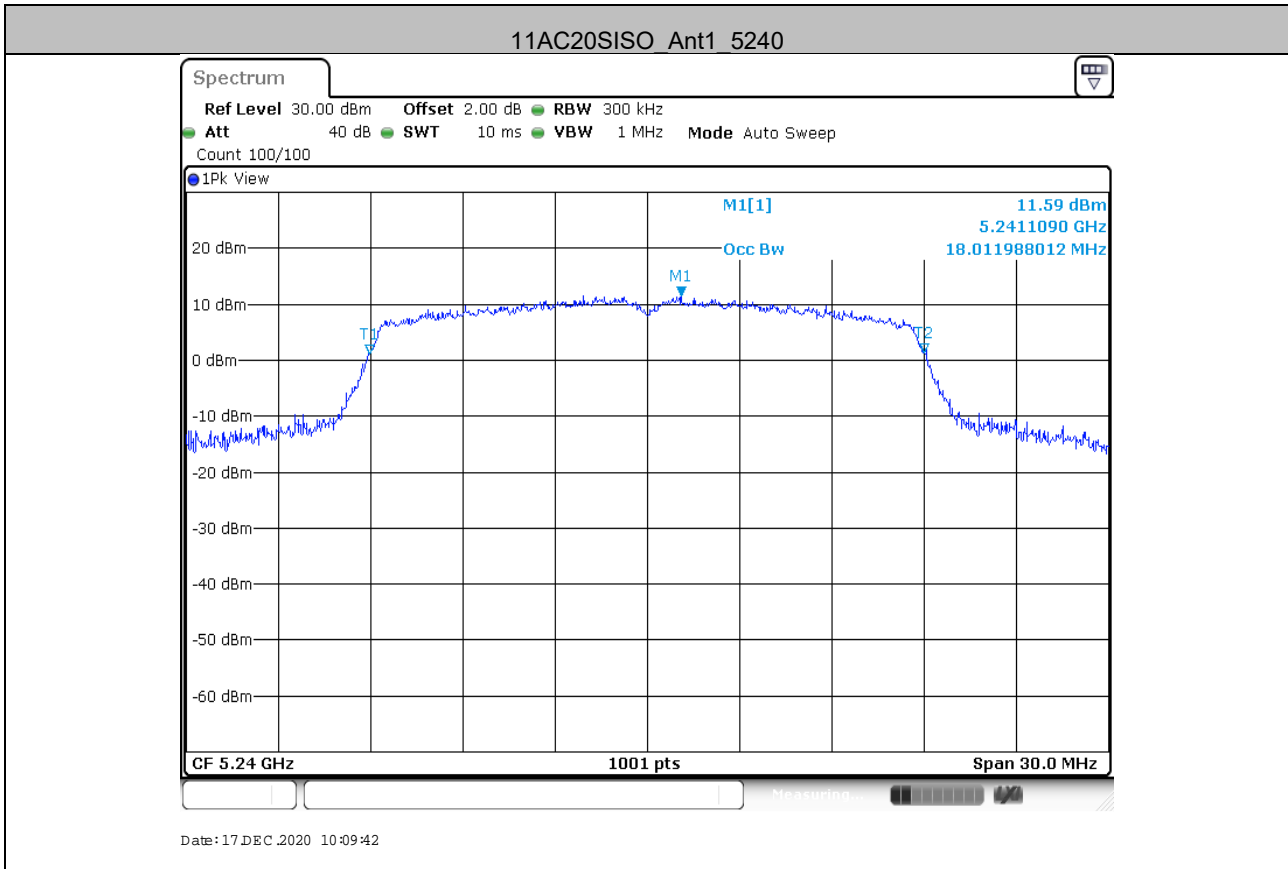
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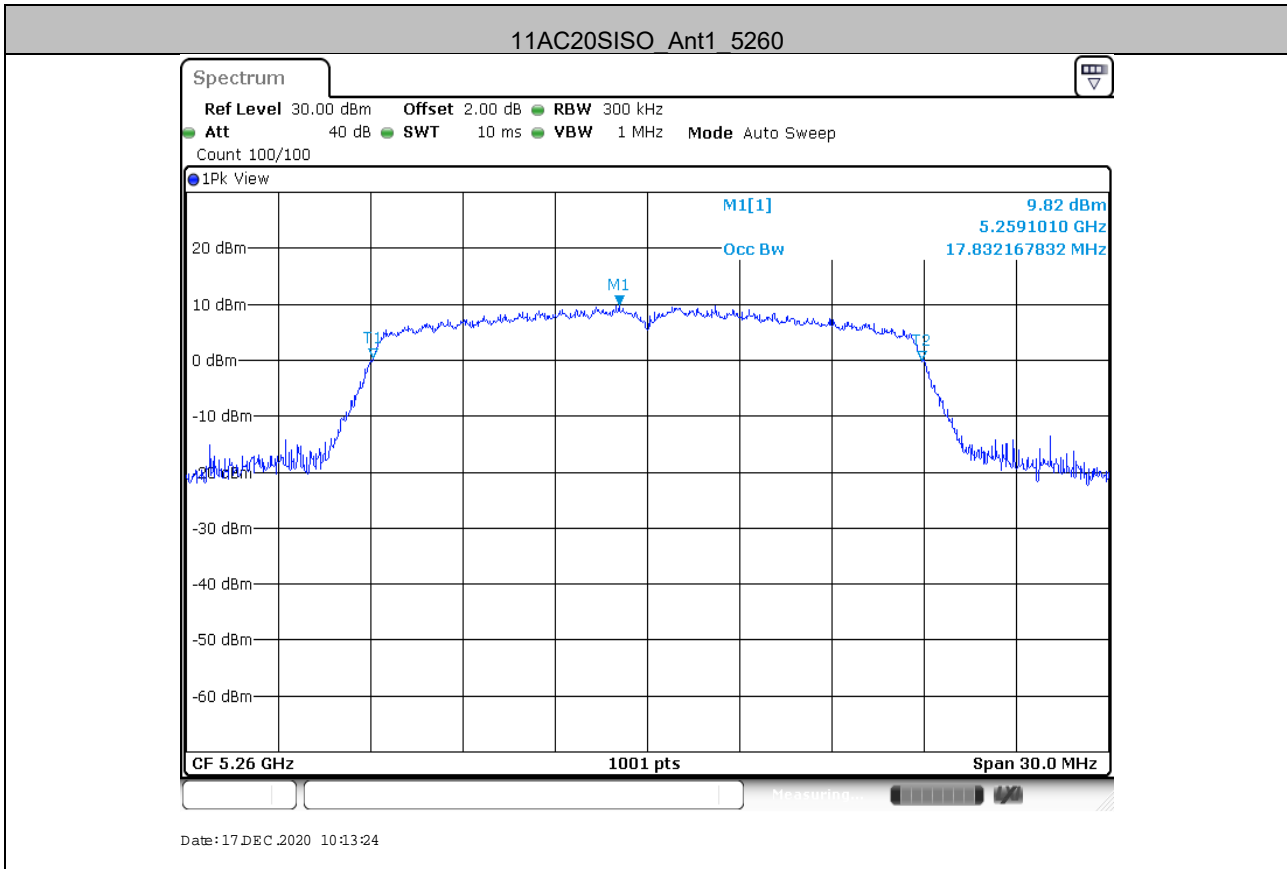
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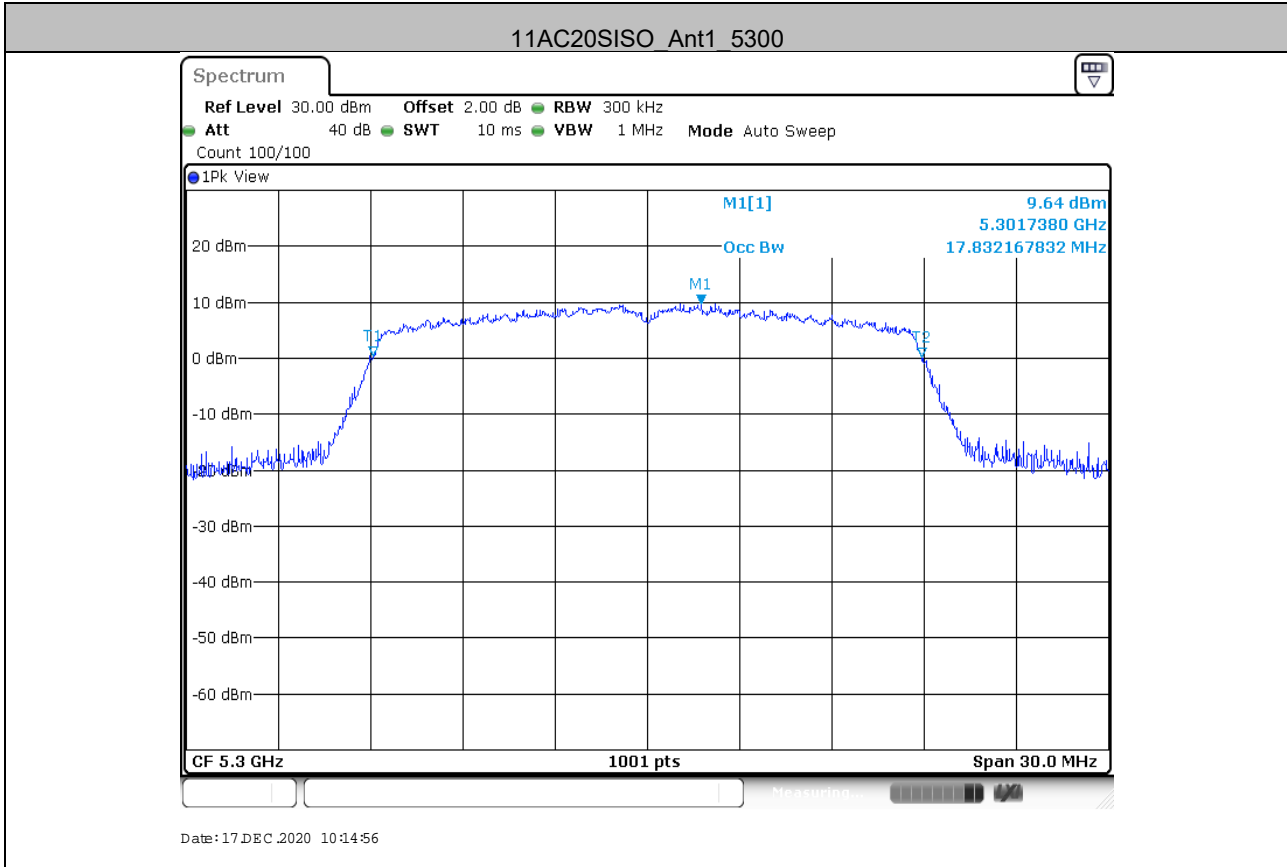
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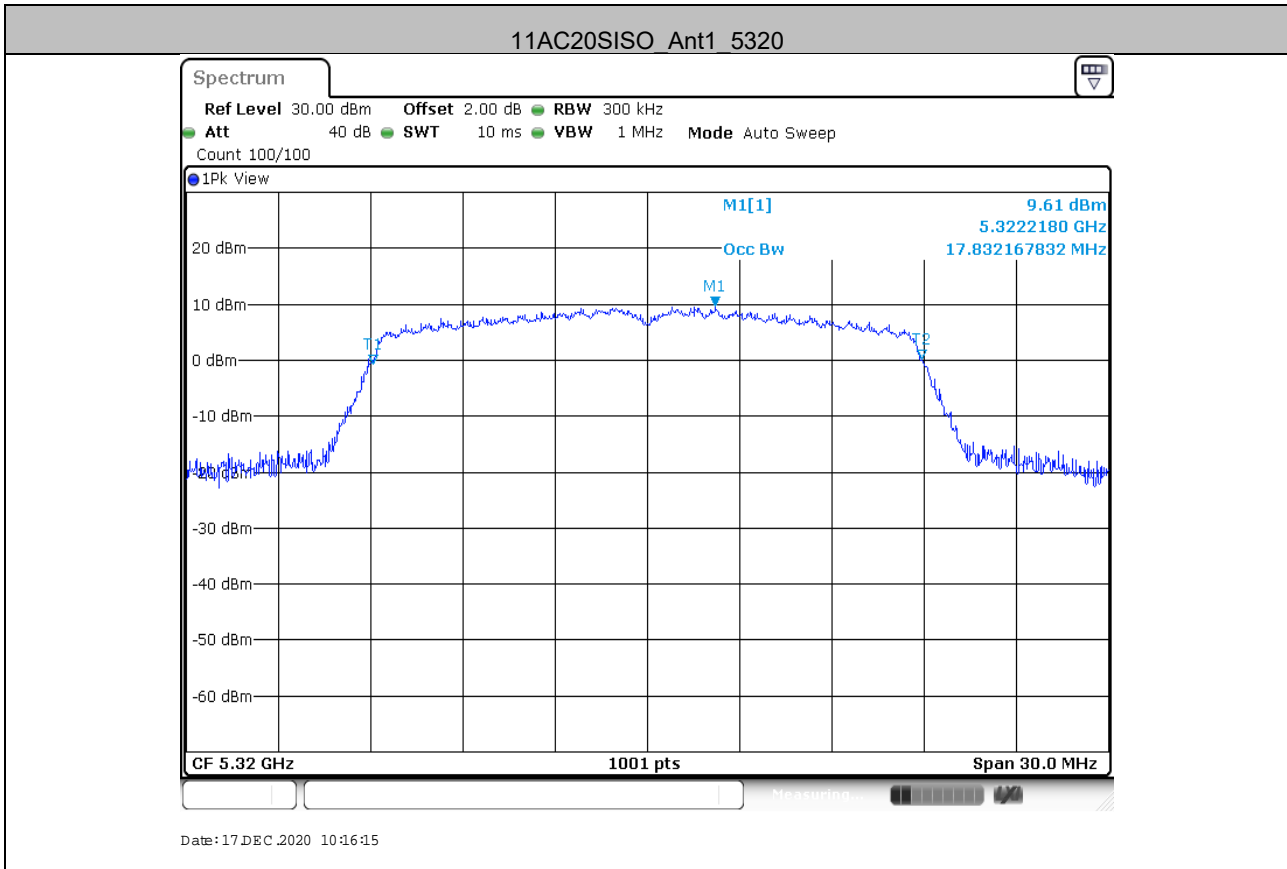
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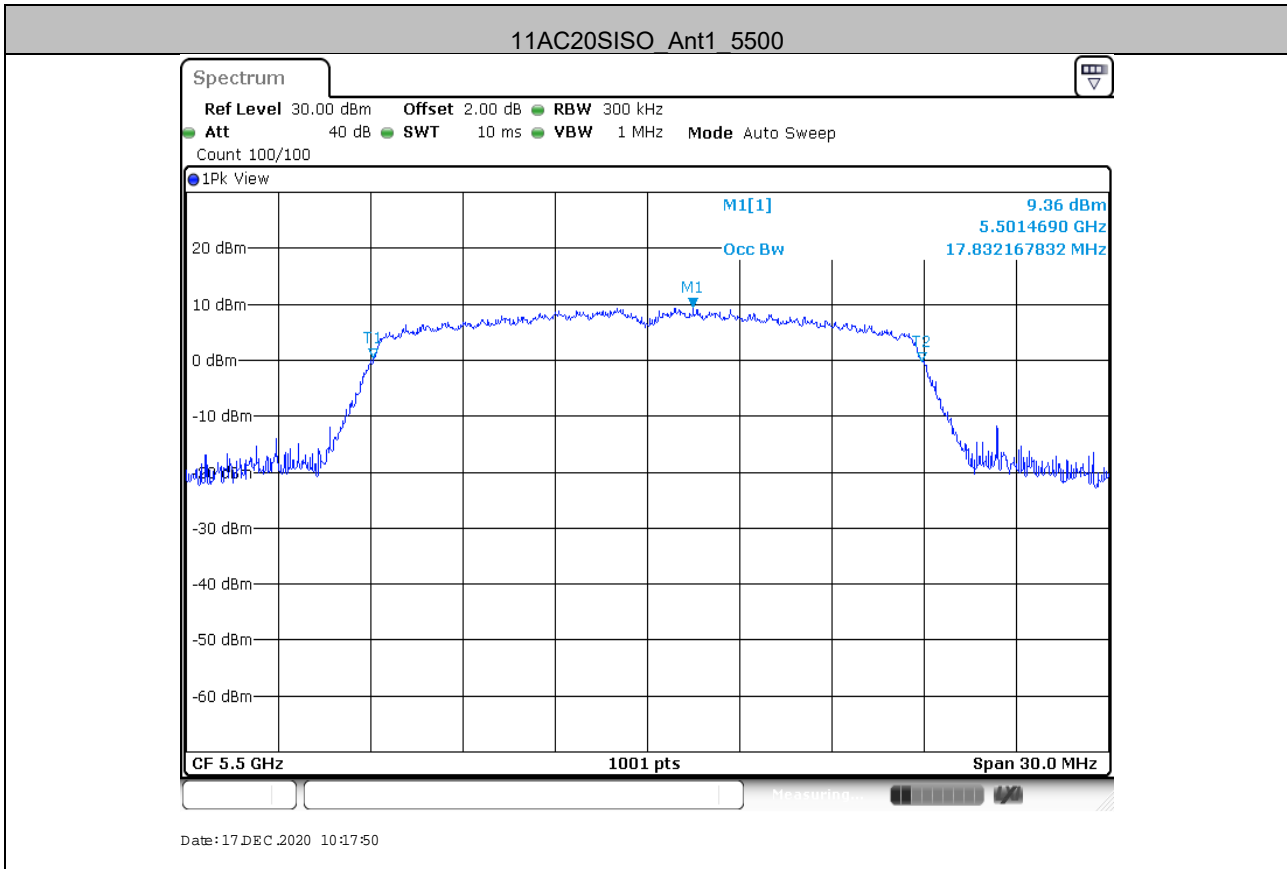
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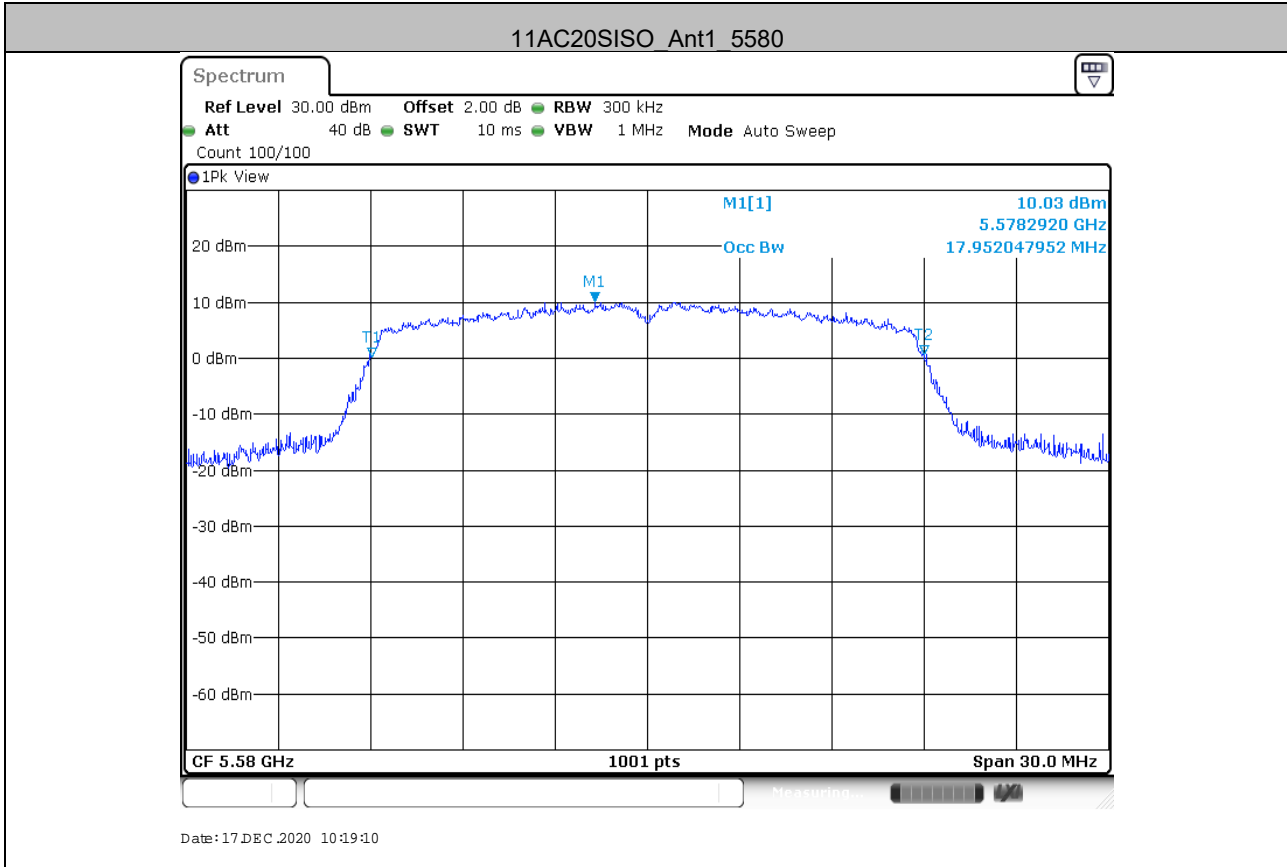
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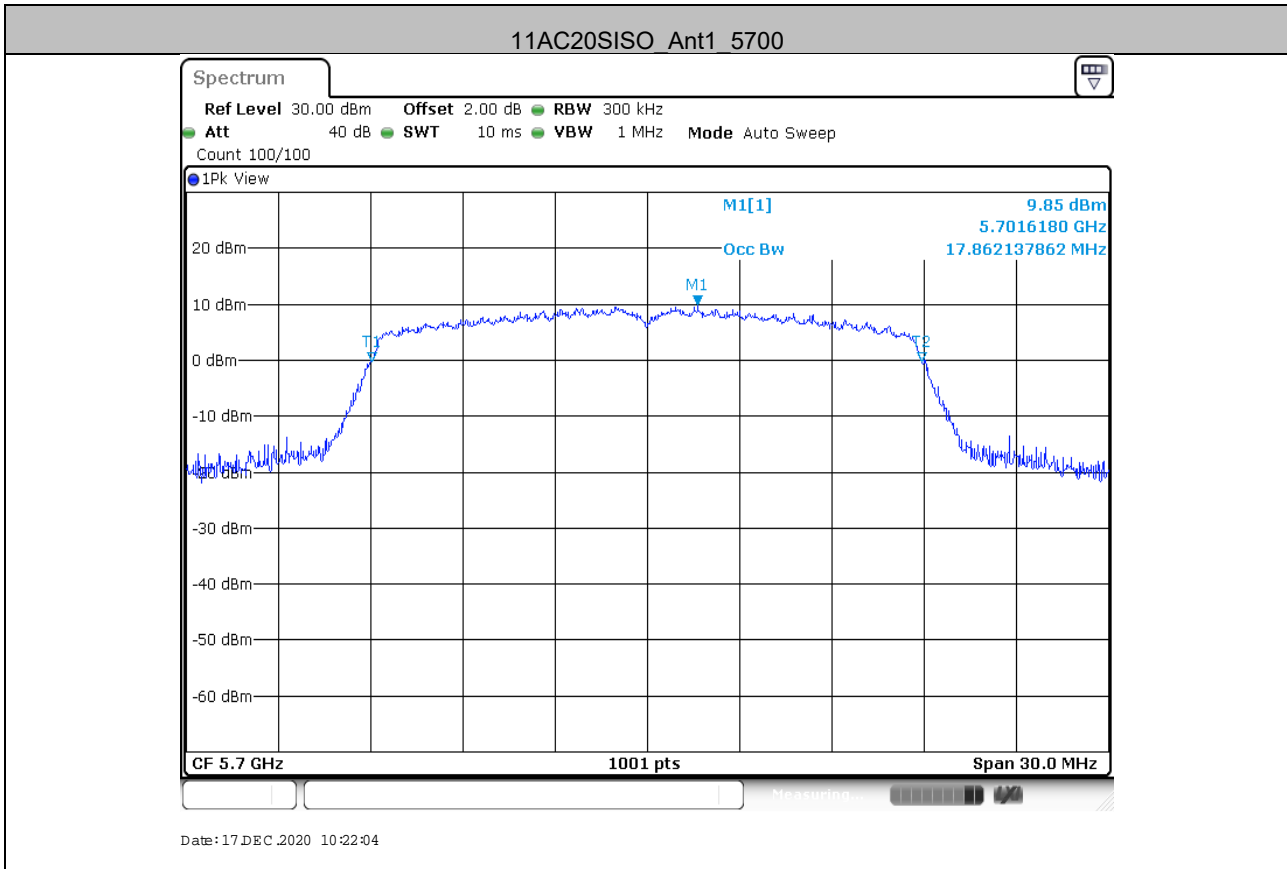
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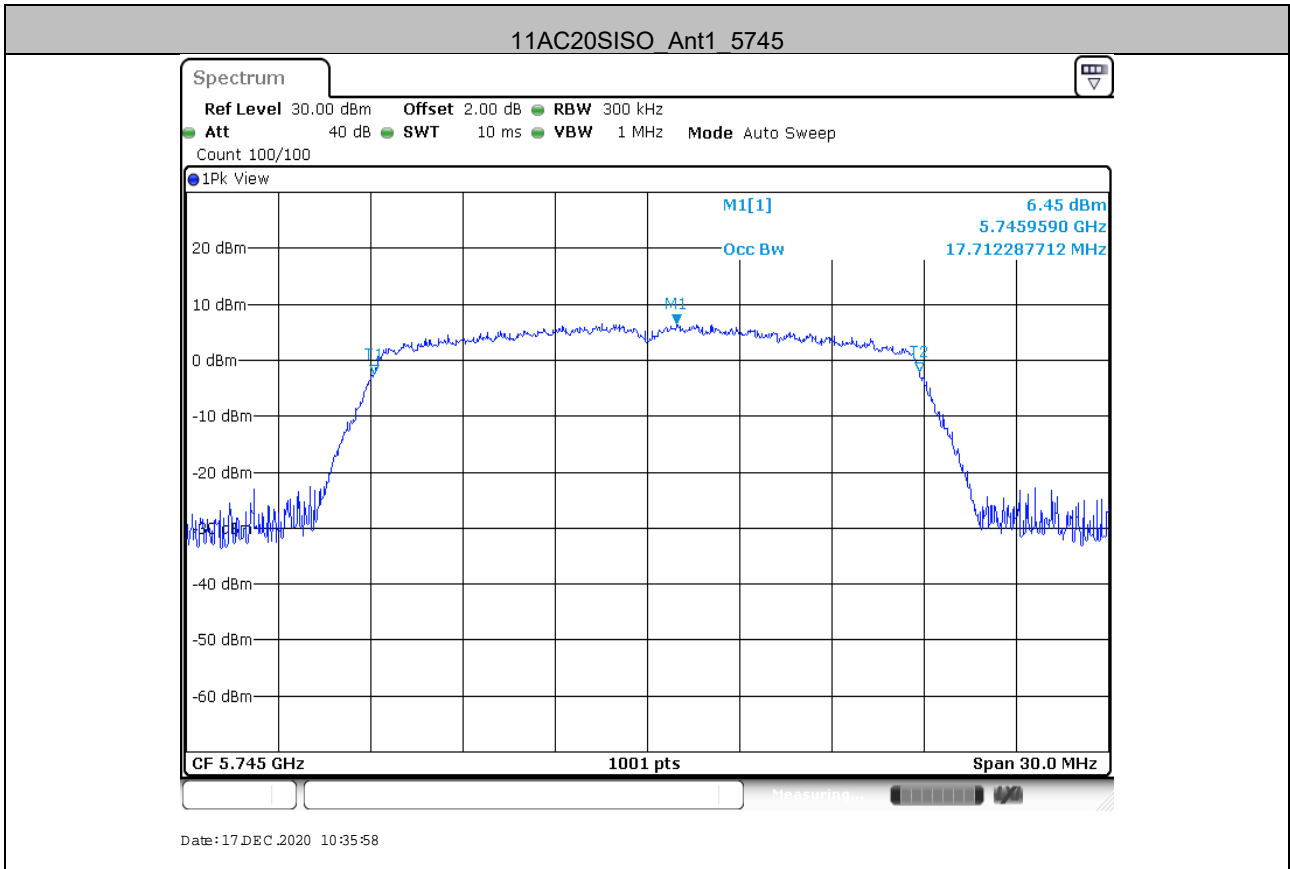


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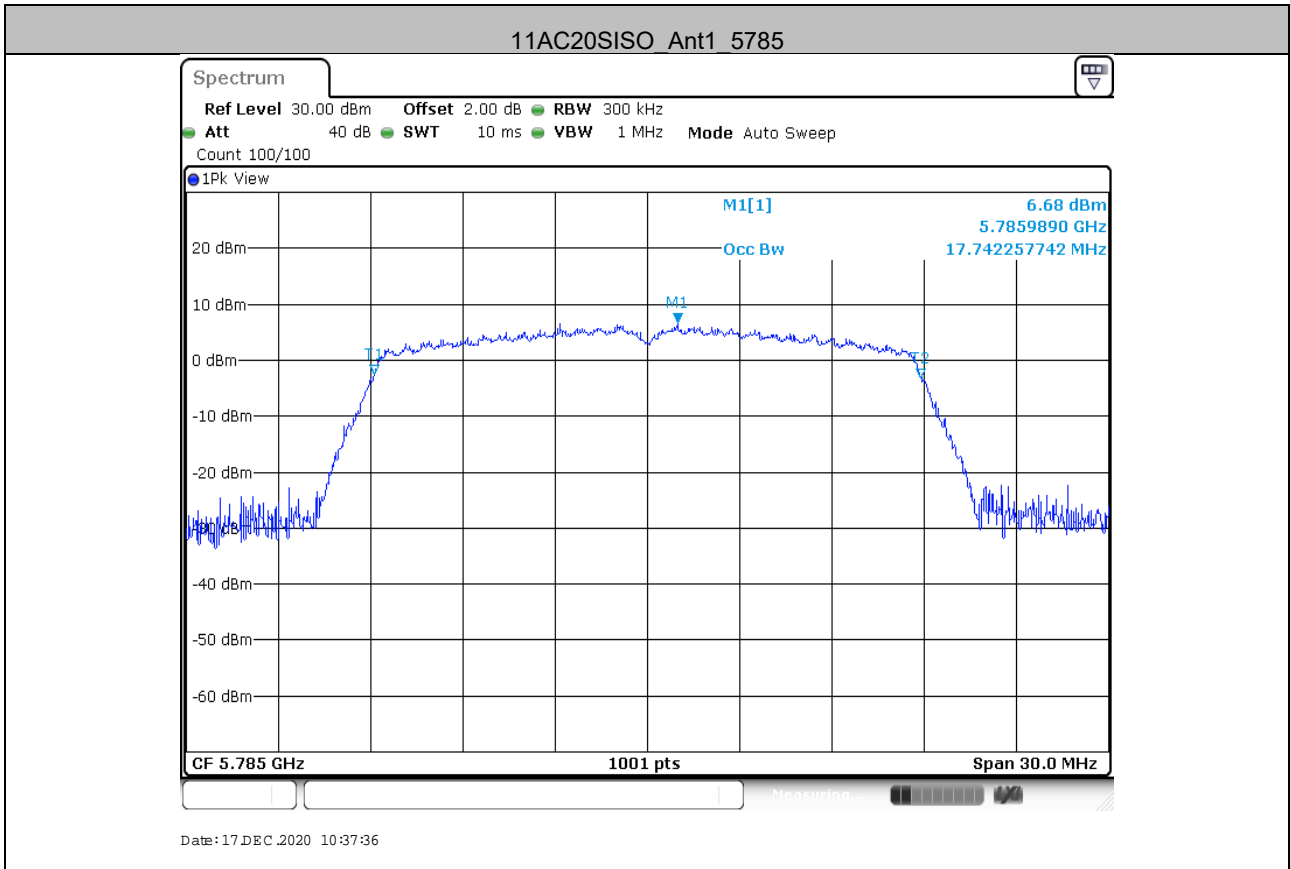
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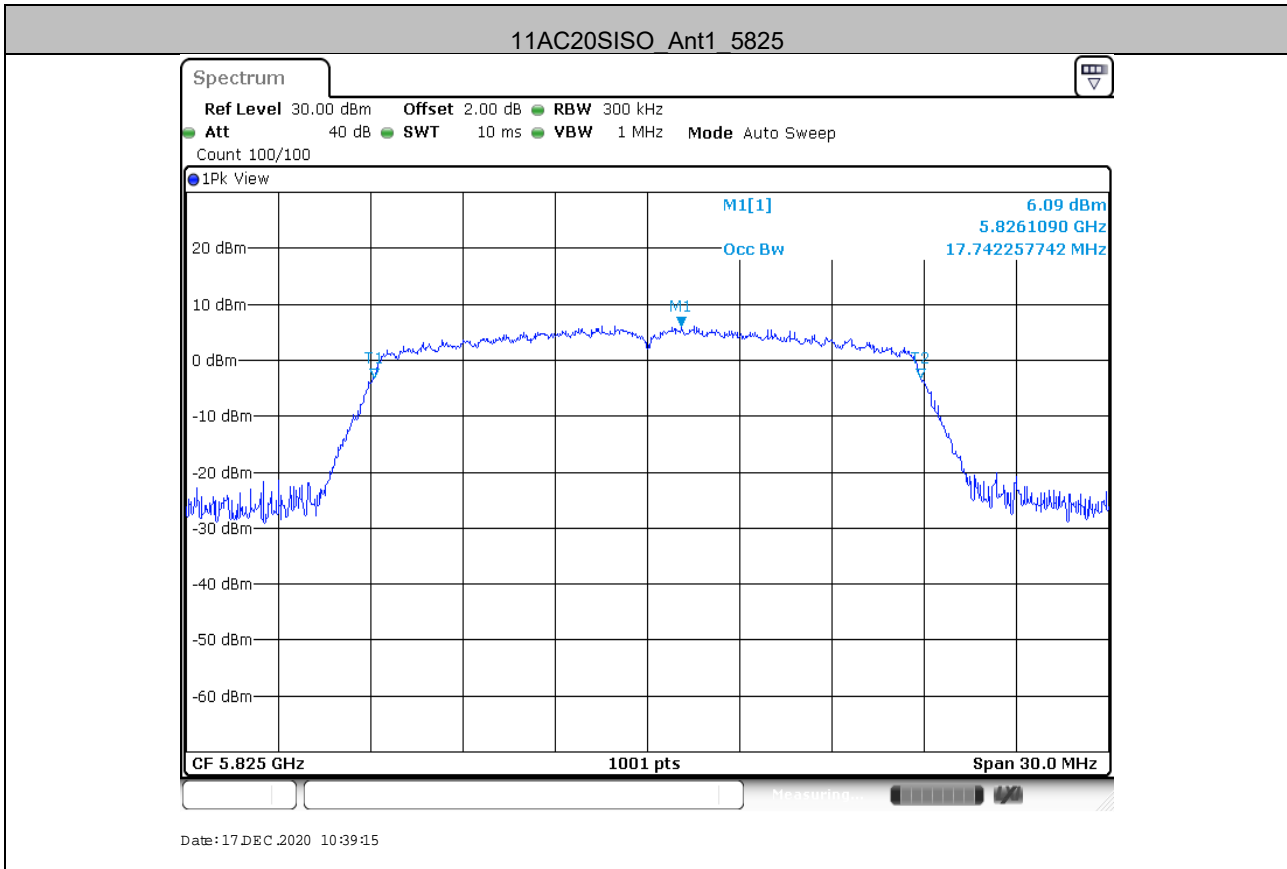
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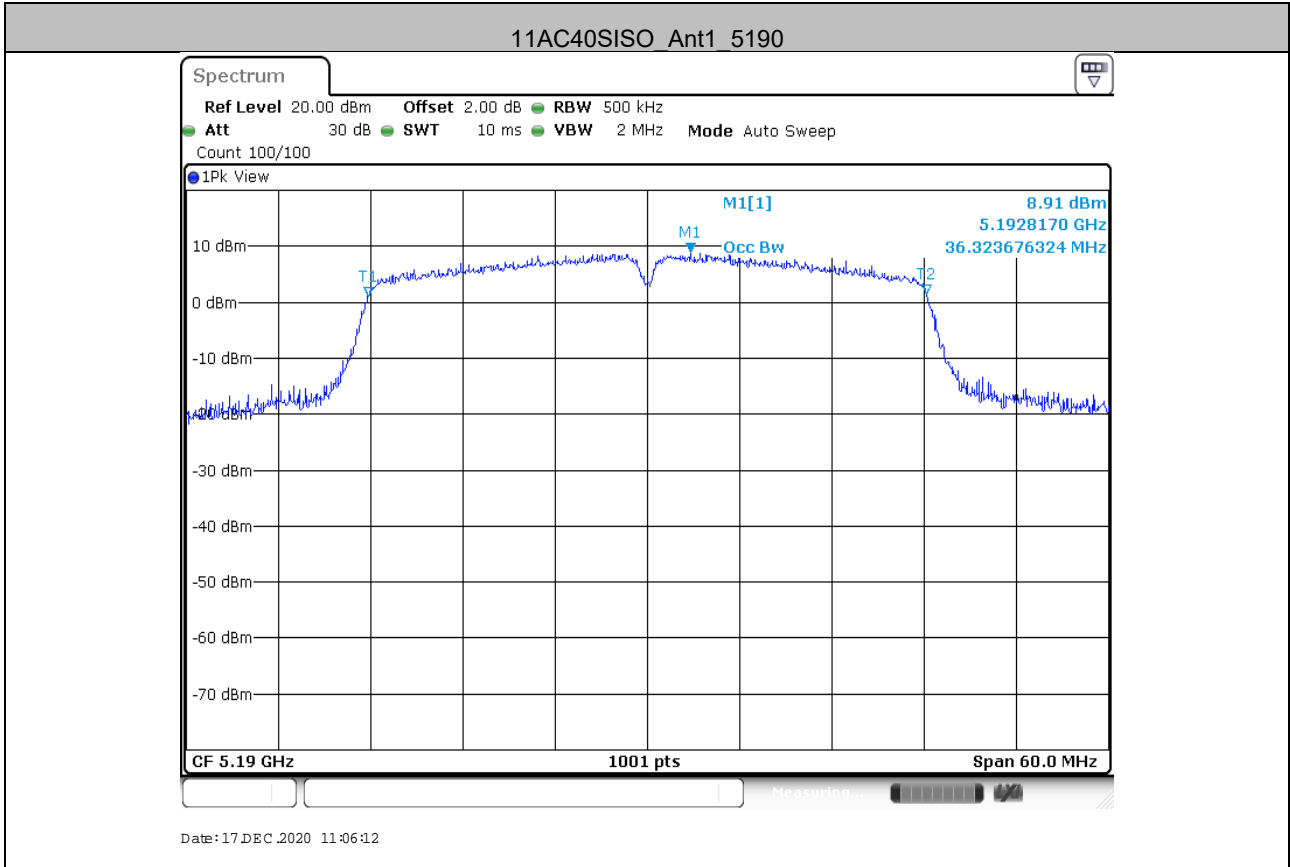
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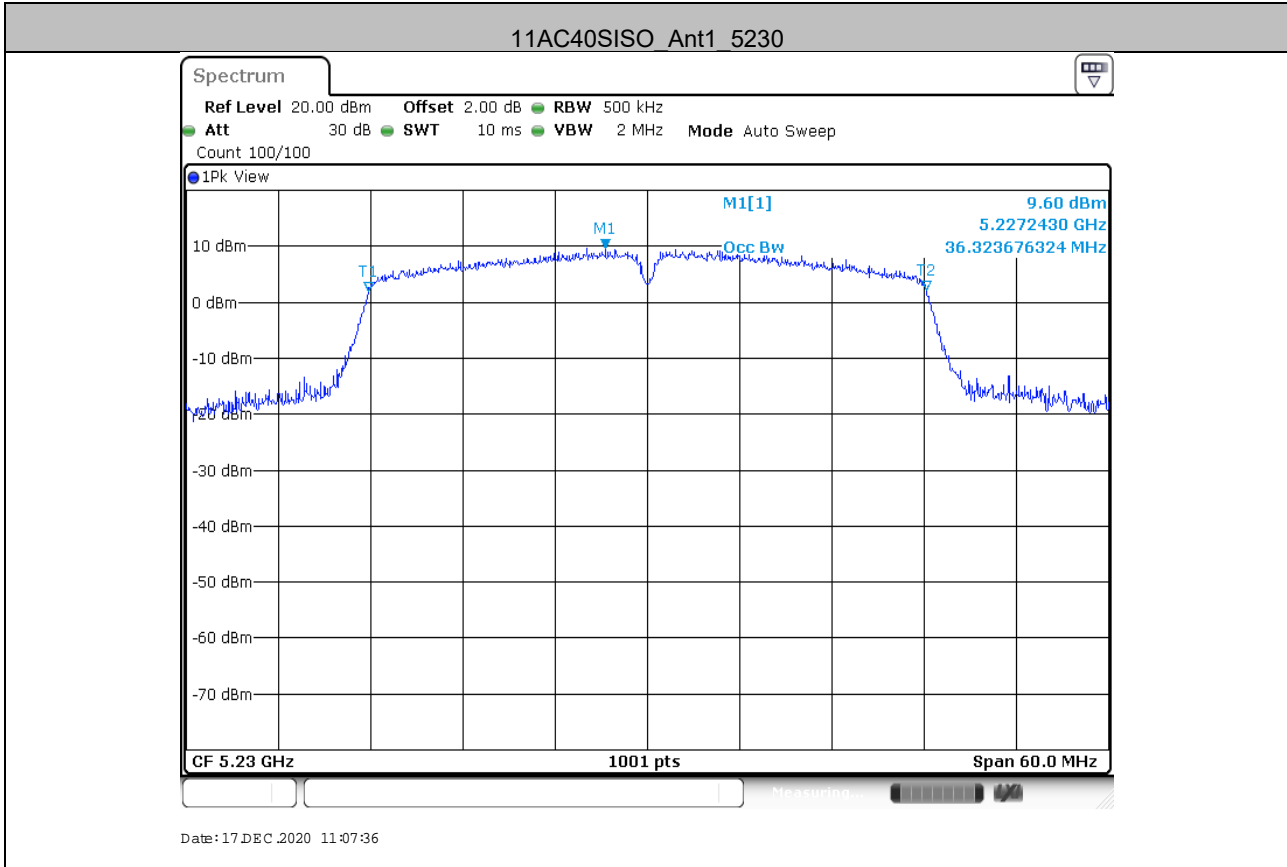
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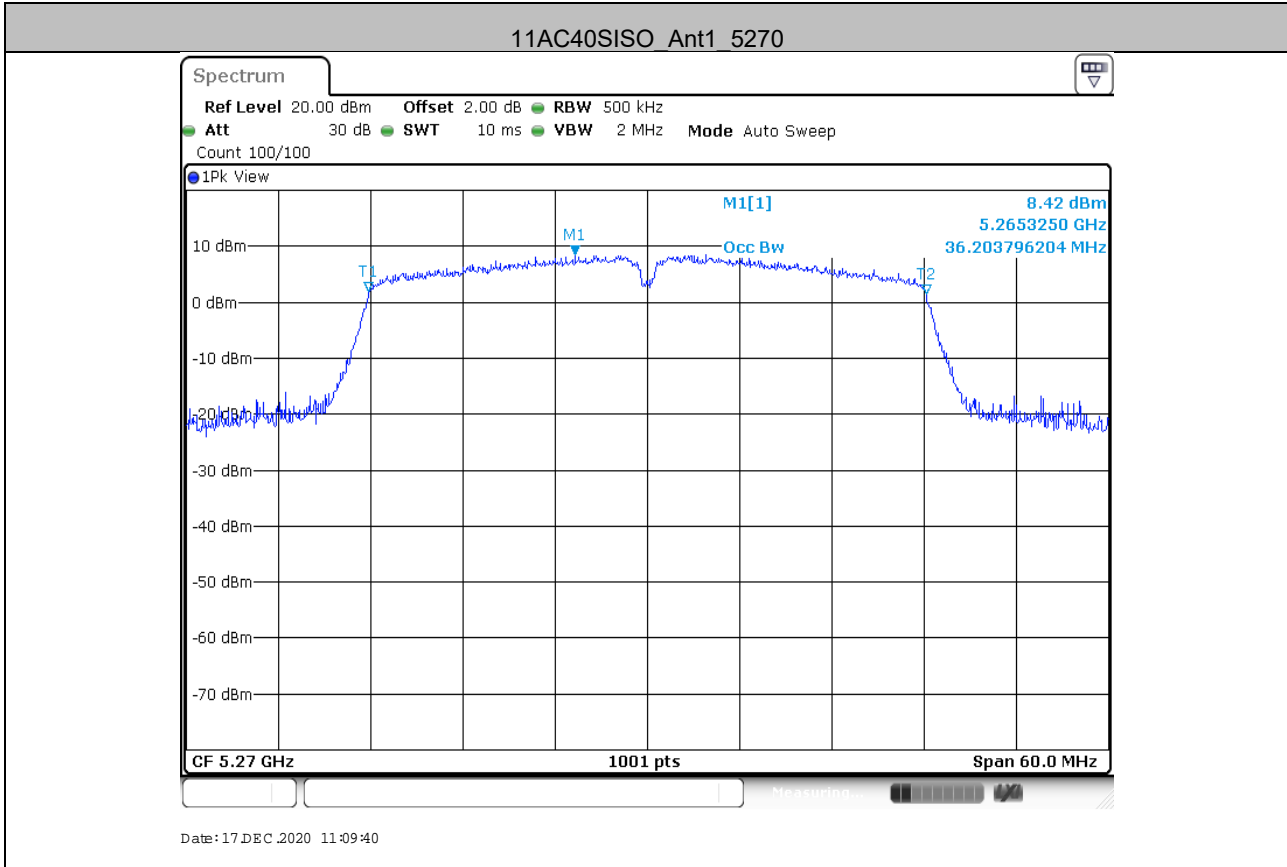


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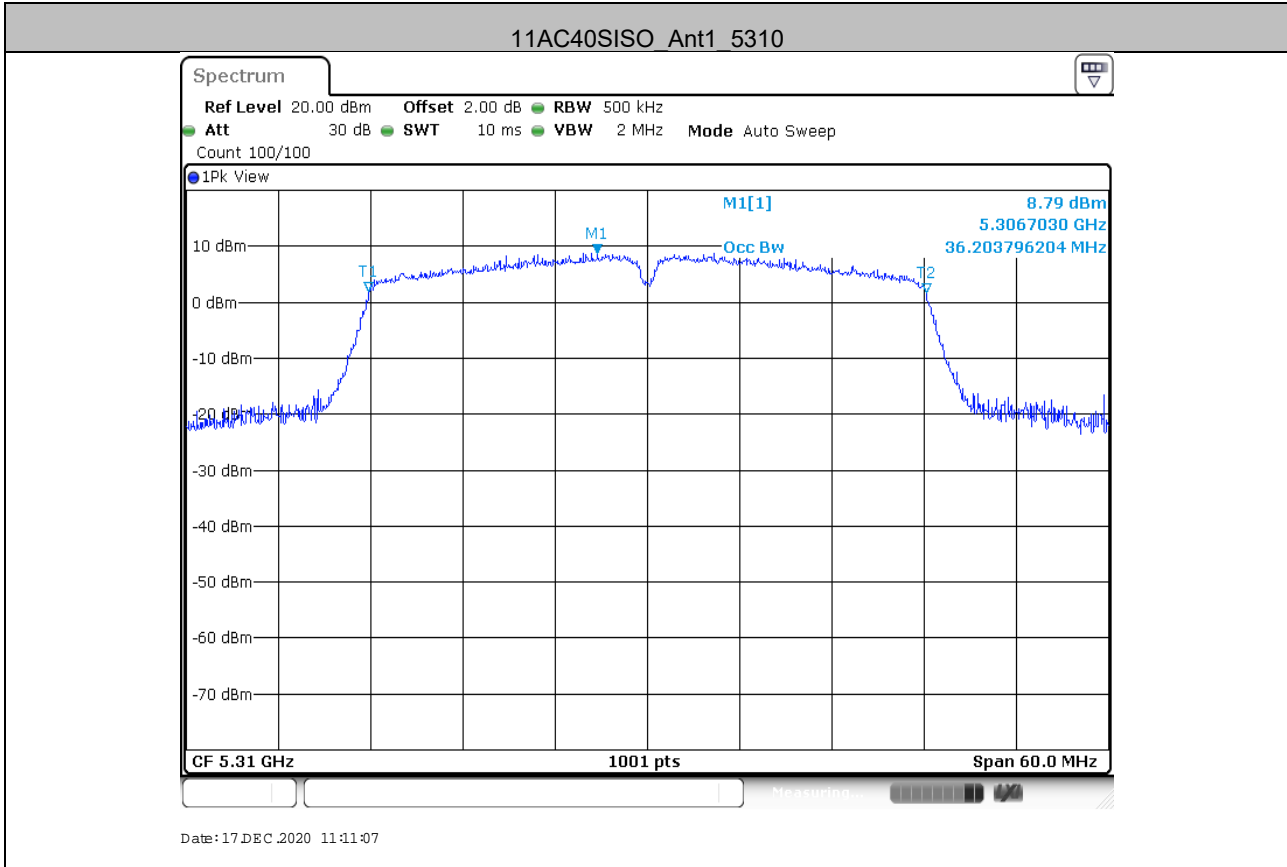
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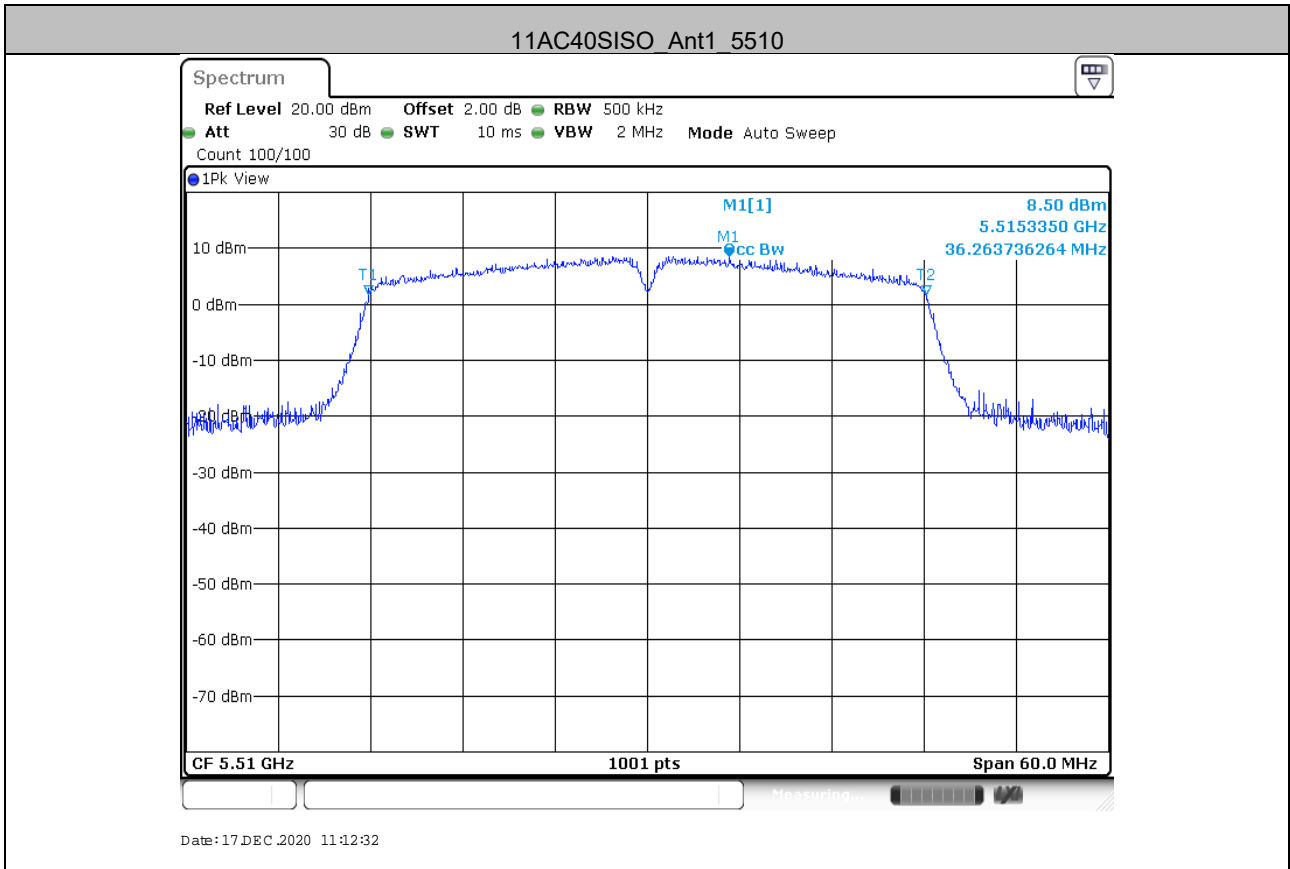


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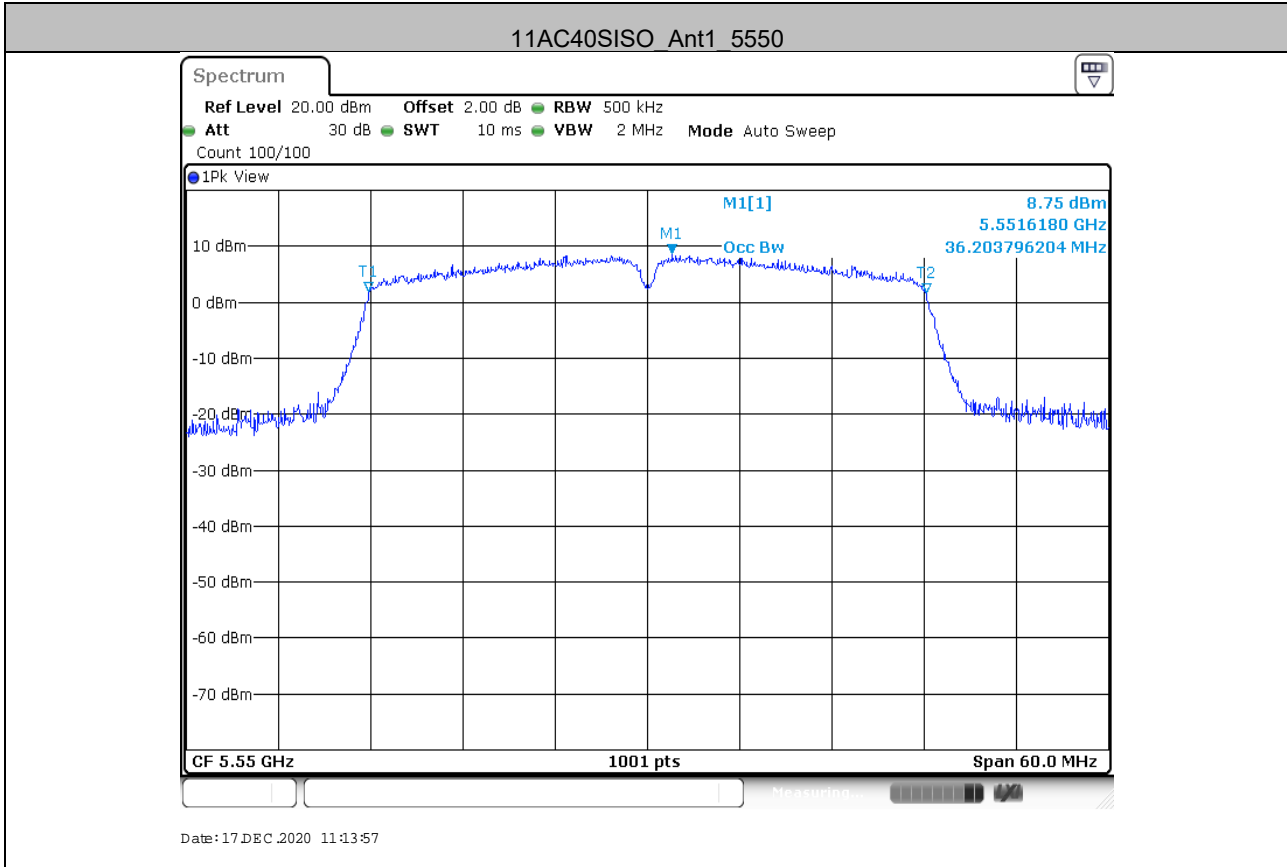


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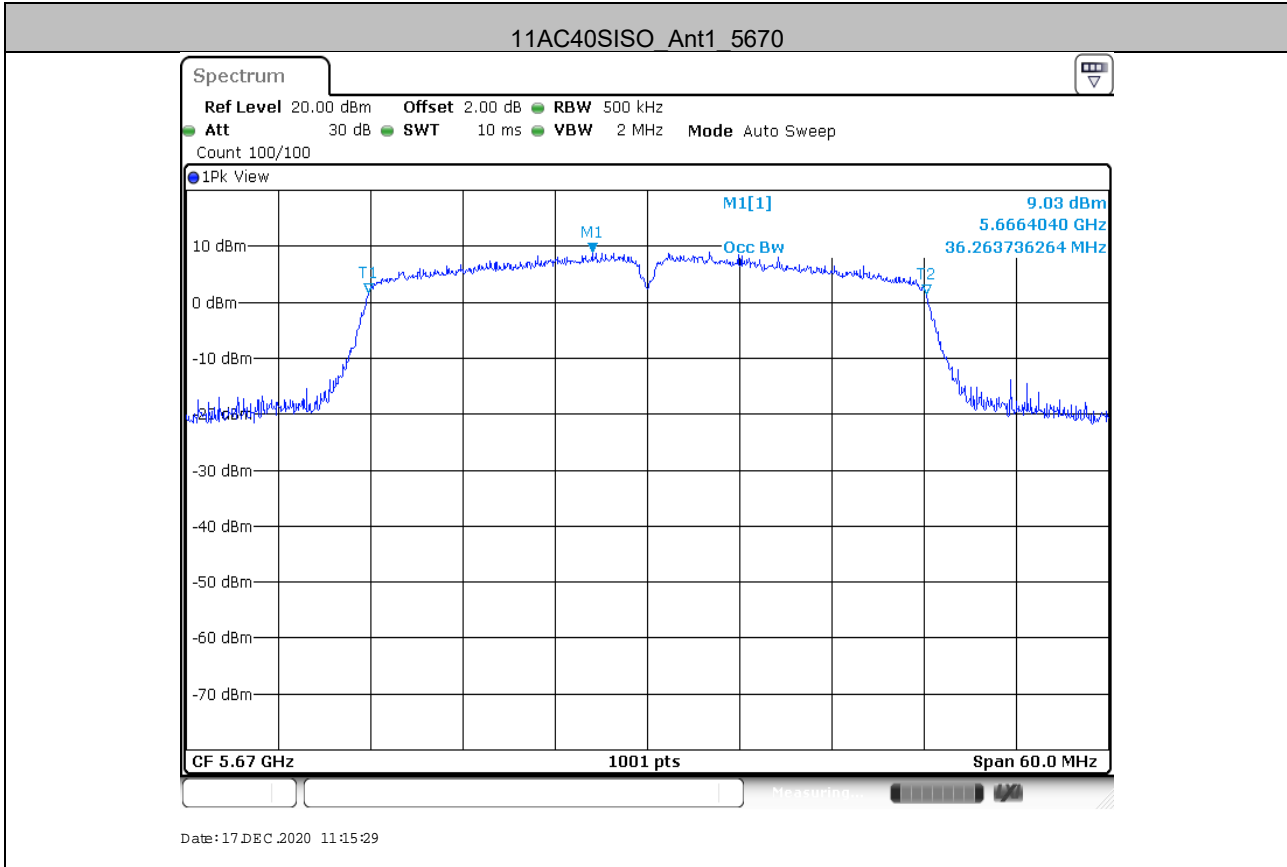


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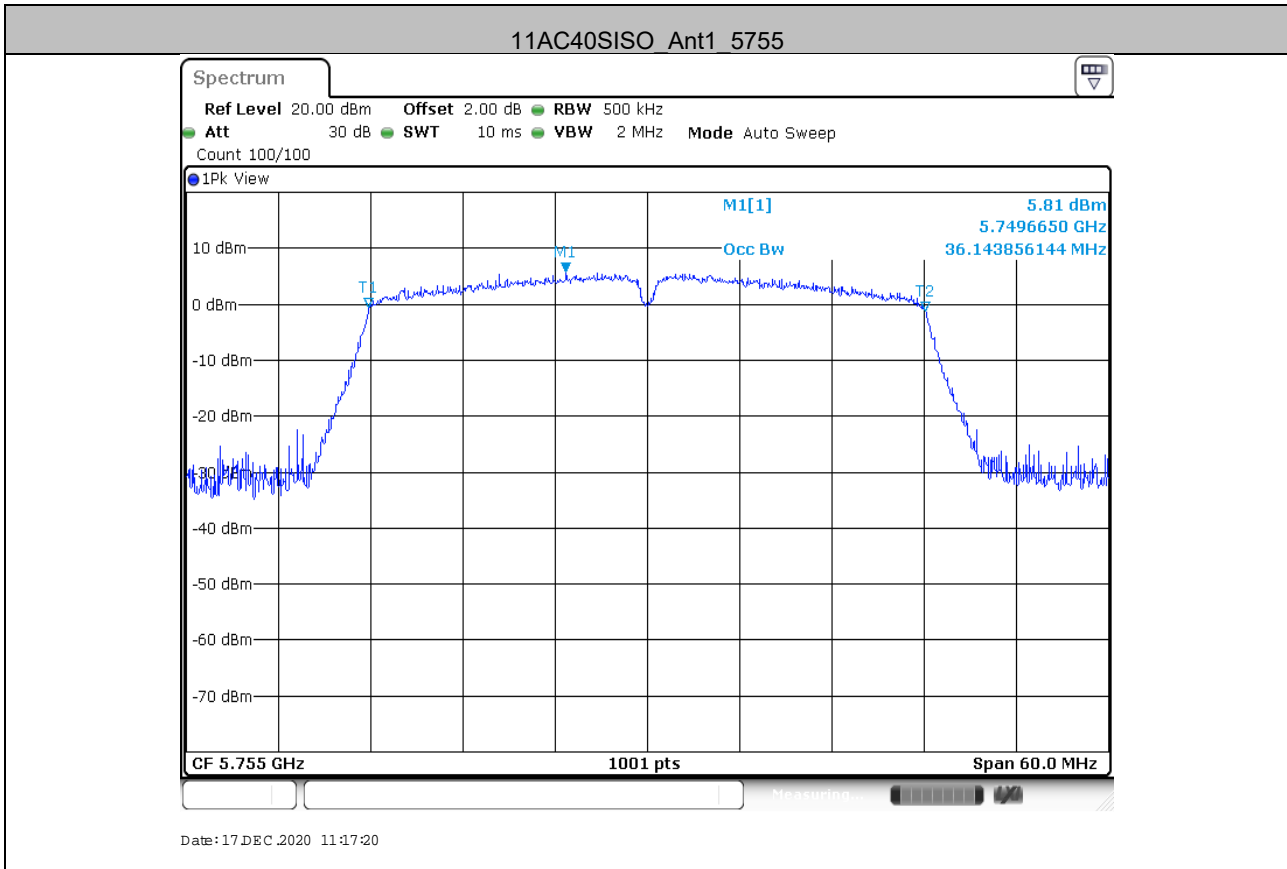
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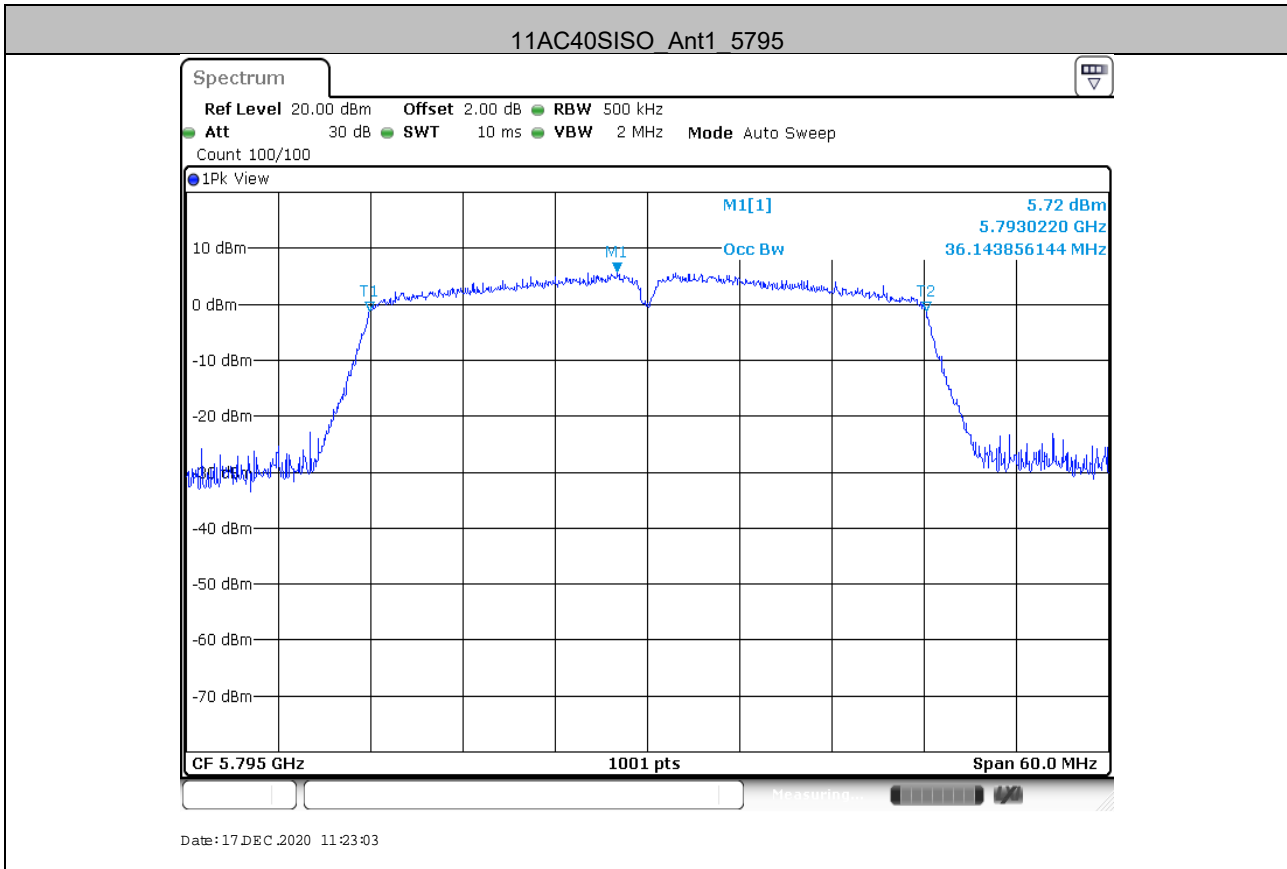
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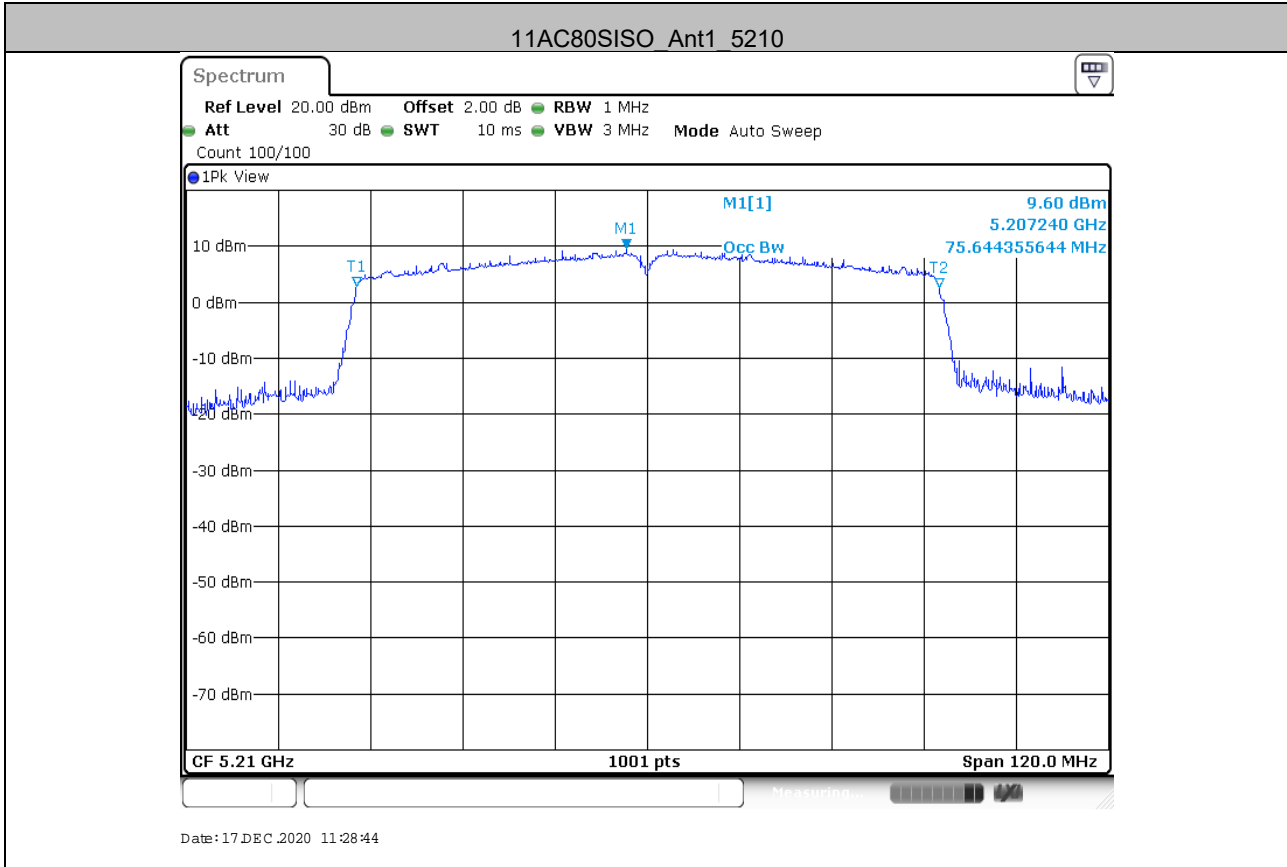
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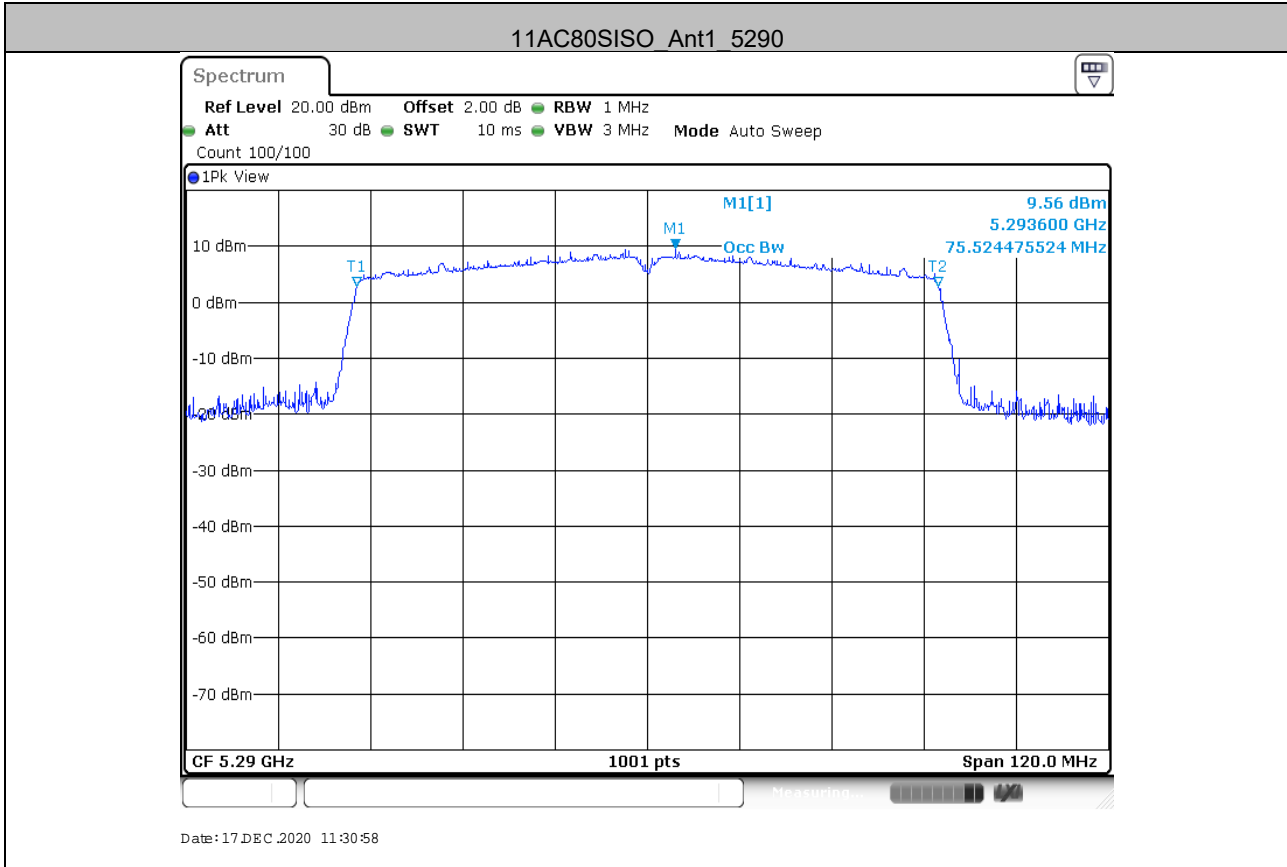
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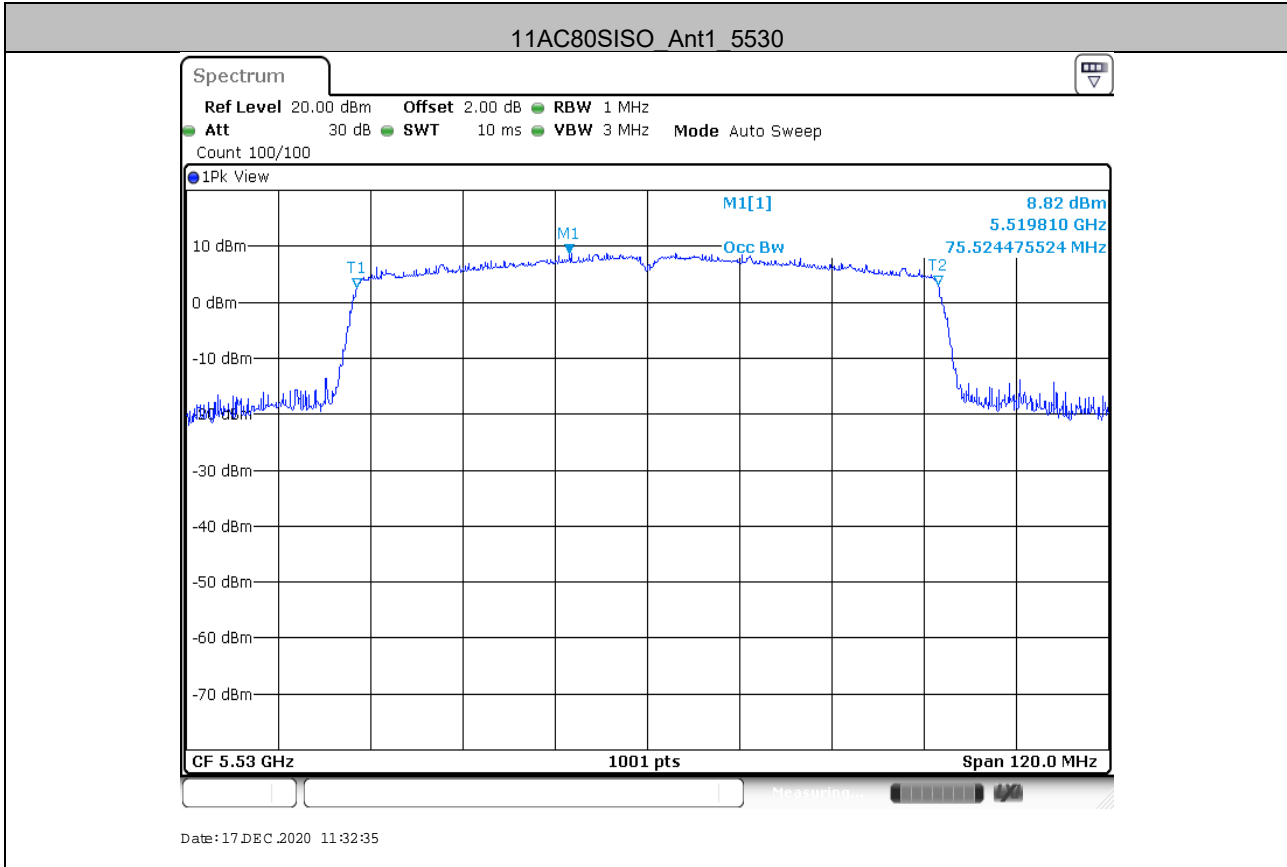


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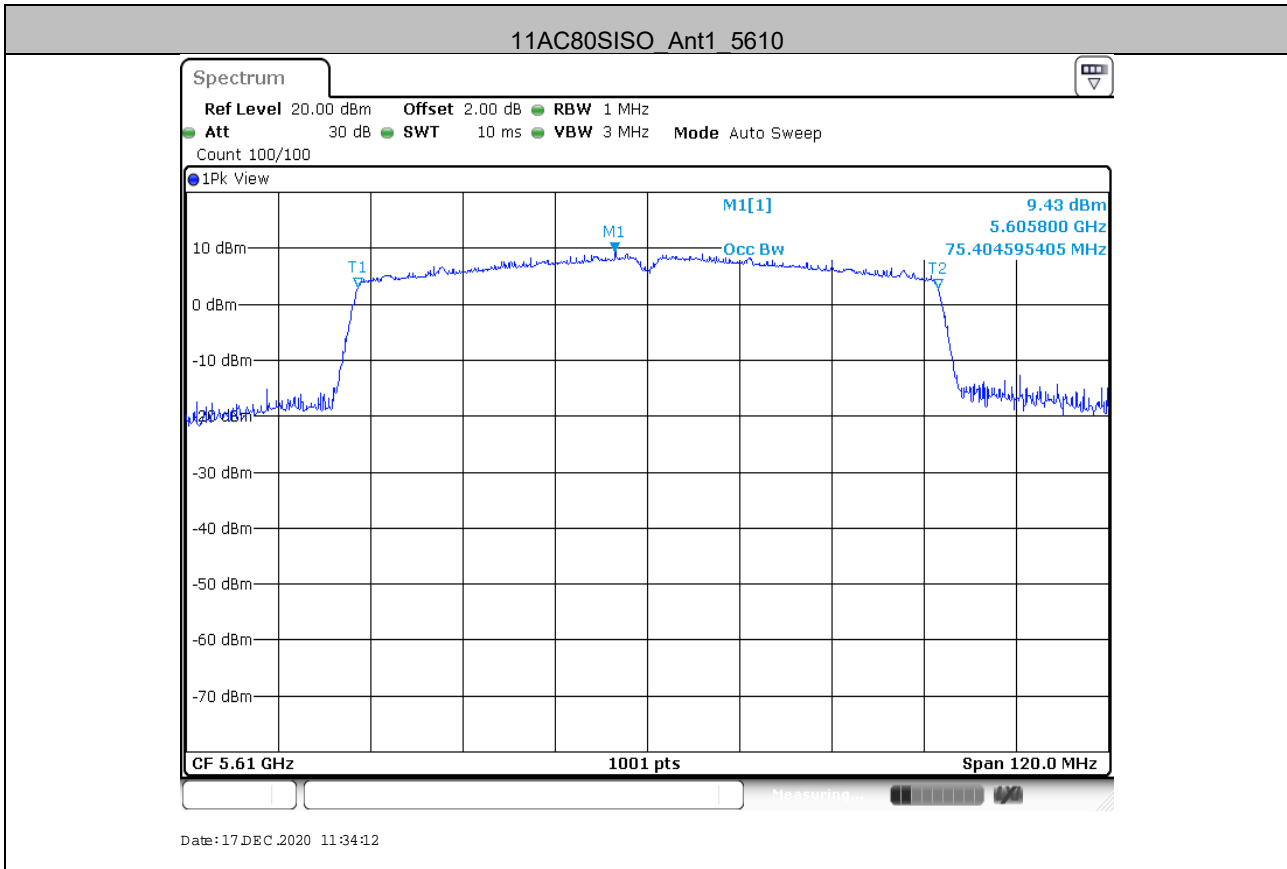


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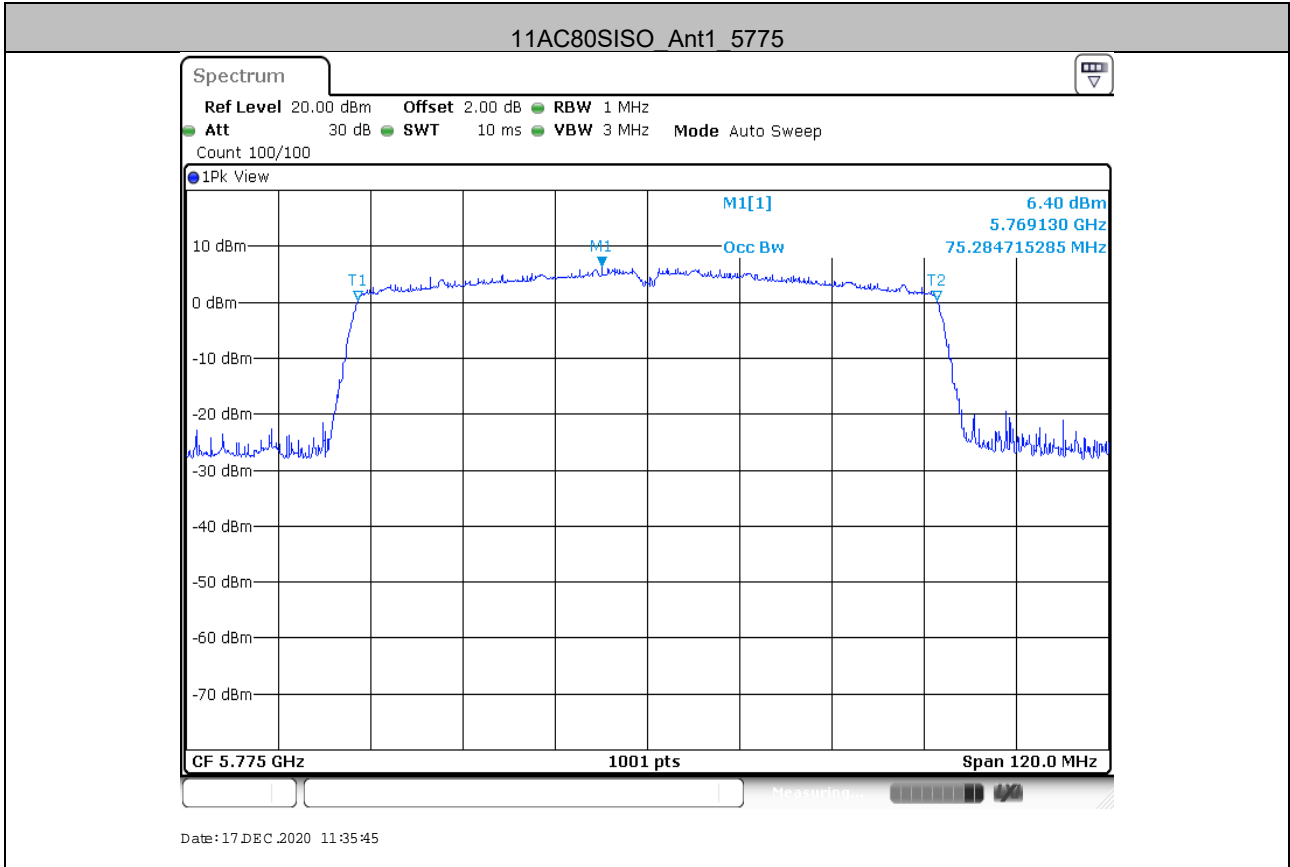


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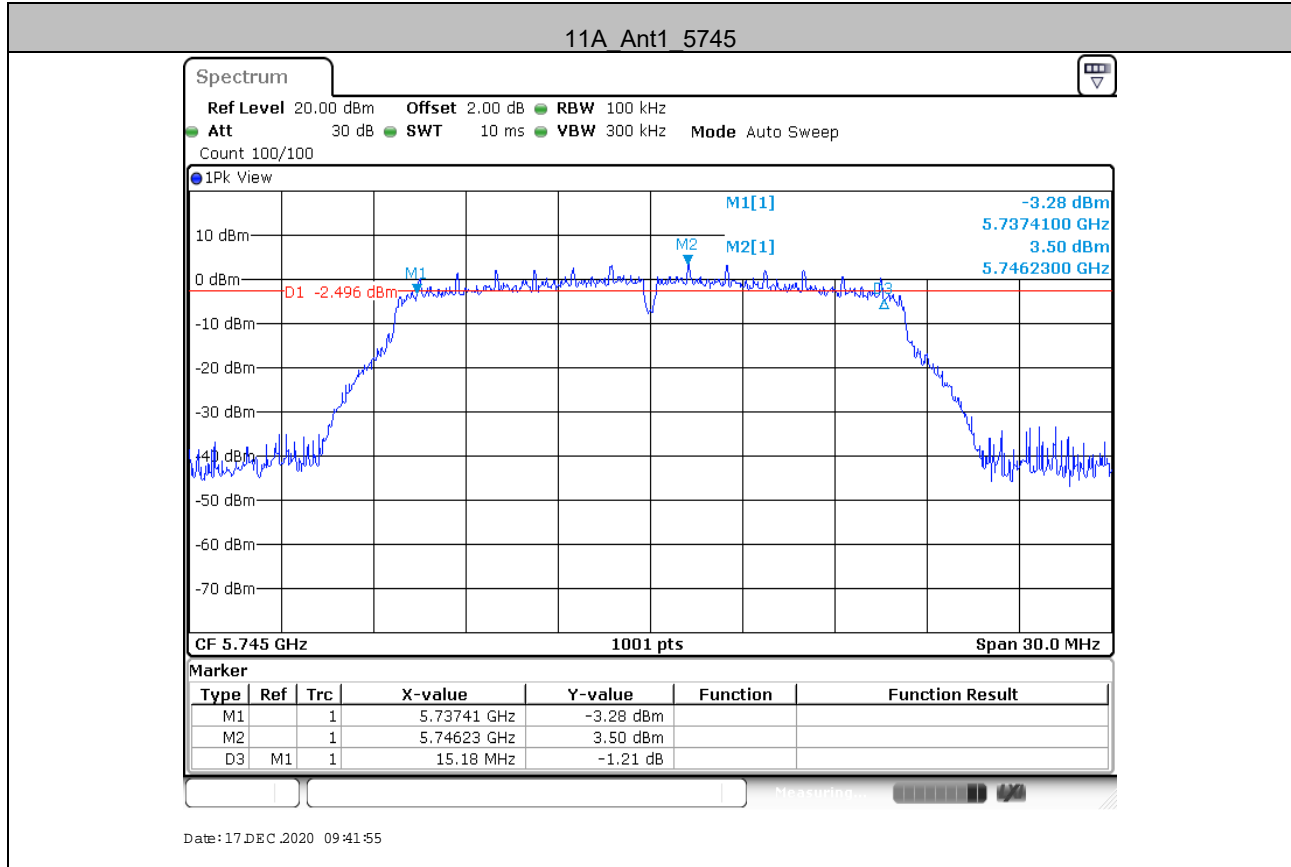
**Min emission bandwidth**  
**Test Result**

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5745	15.180	5737.410	5752.590	PASS
		5785	15.150	5777.410	5792.560	PASS
		5825	15.180	5817.410	5832.590	PASS
11N20SISO	Ant1	5745	15.210	5737.380	5752.590	PASS
		5785	15.150	5777.410	5792.560	PASS
		5825	15.180	5817.410	5832.590	PASS
11N40SISO	Ant1	5755	35.220	5737.360	5772.580	PASS
		5795	35.280	5777.360	5812.640	PASS
11AC20SISO	Ant1	5745	15.210	5737.380	5752.590	PASS
		5785	15.180	5777.410	5792.590	PASS
		5825	15.180	5817.410	5832.590	PASS
11AC40SISO	Ant1	5755	35.220	5737.360	5772.580	PASS
		5795	35.280	5777.360	5812.640	PASS
11AC80SISO	Ant1	5775	75.360	5737.320	5812.680	PASS



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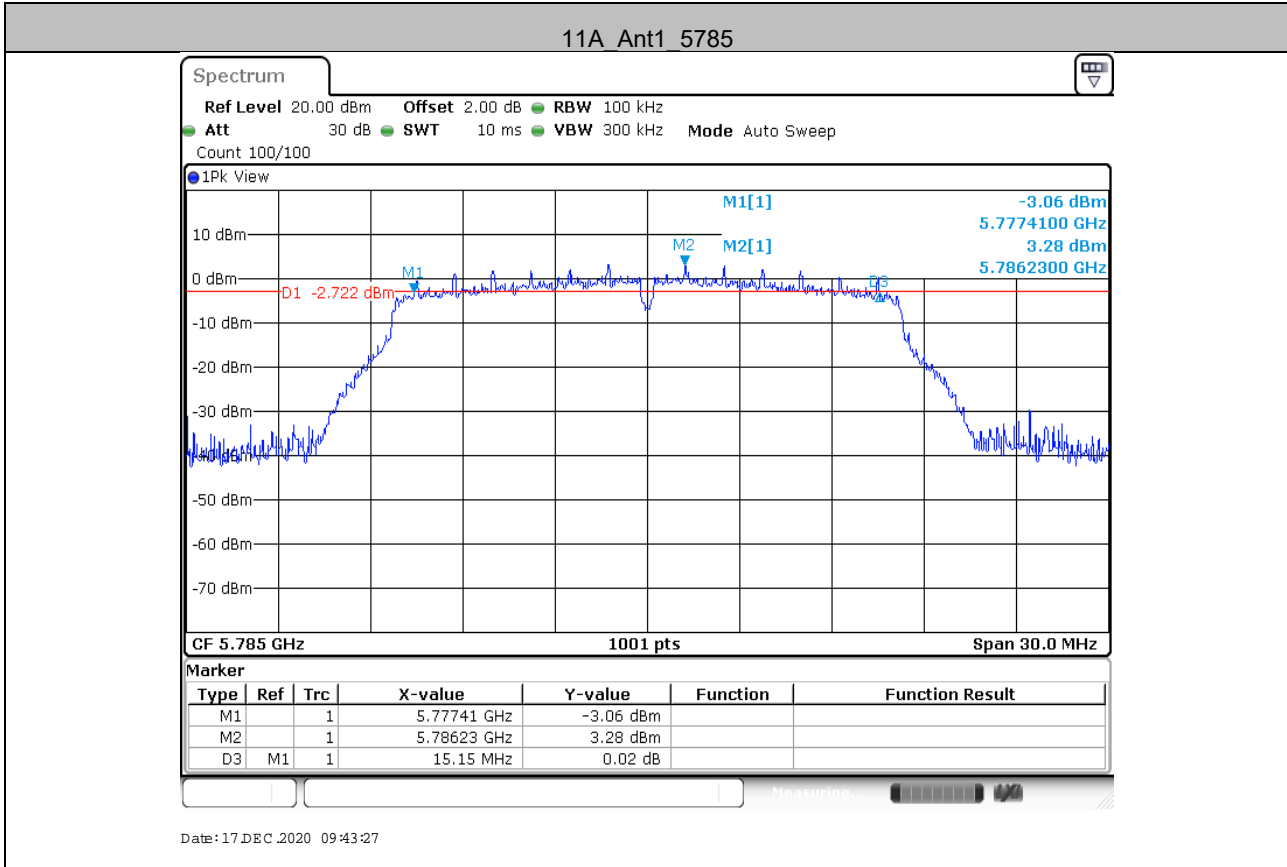
### Test Graphs



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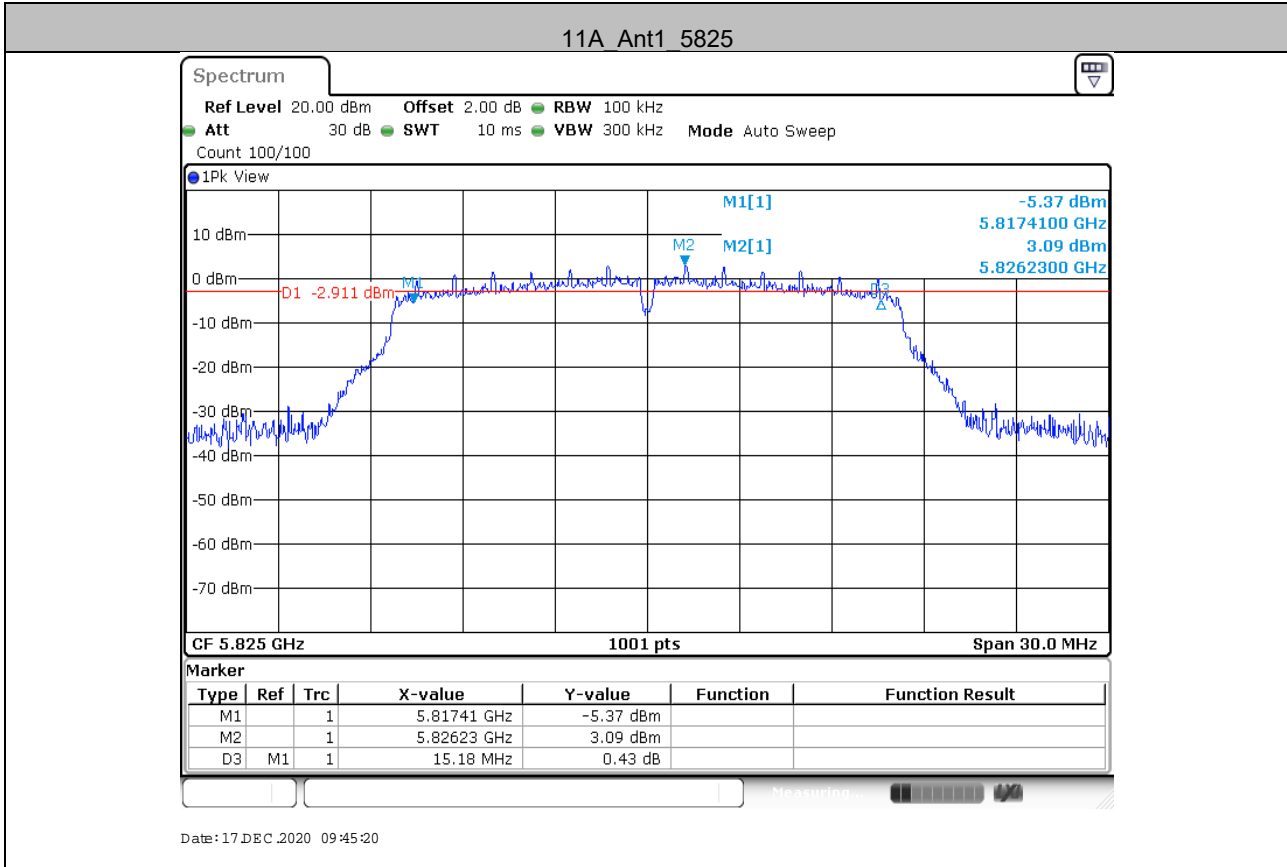
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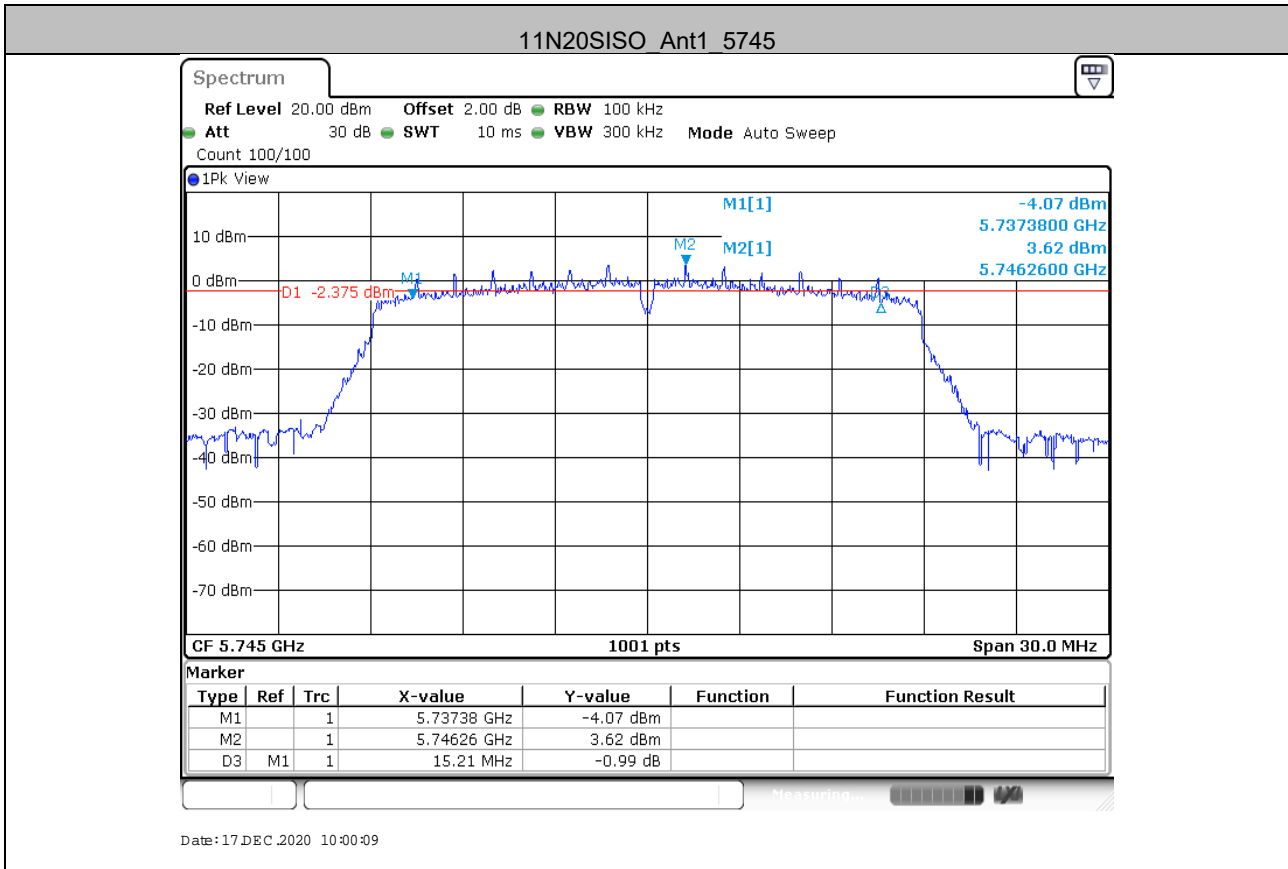
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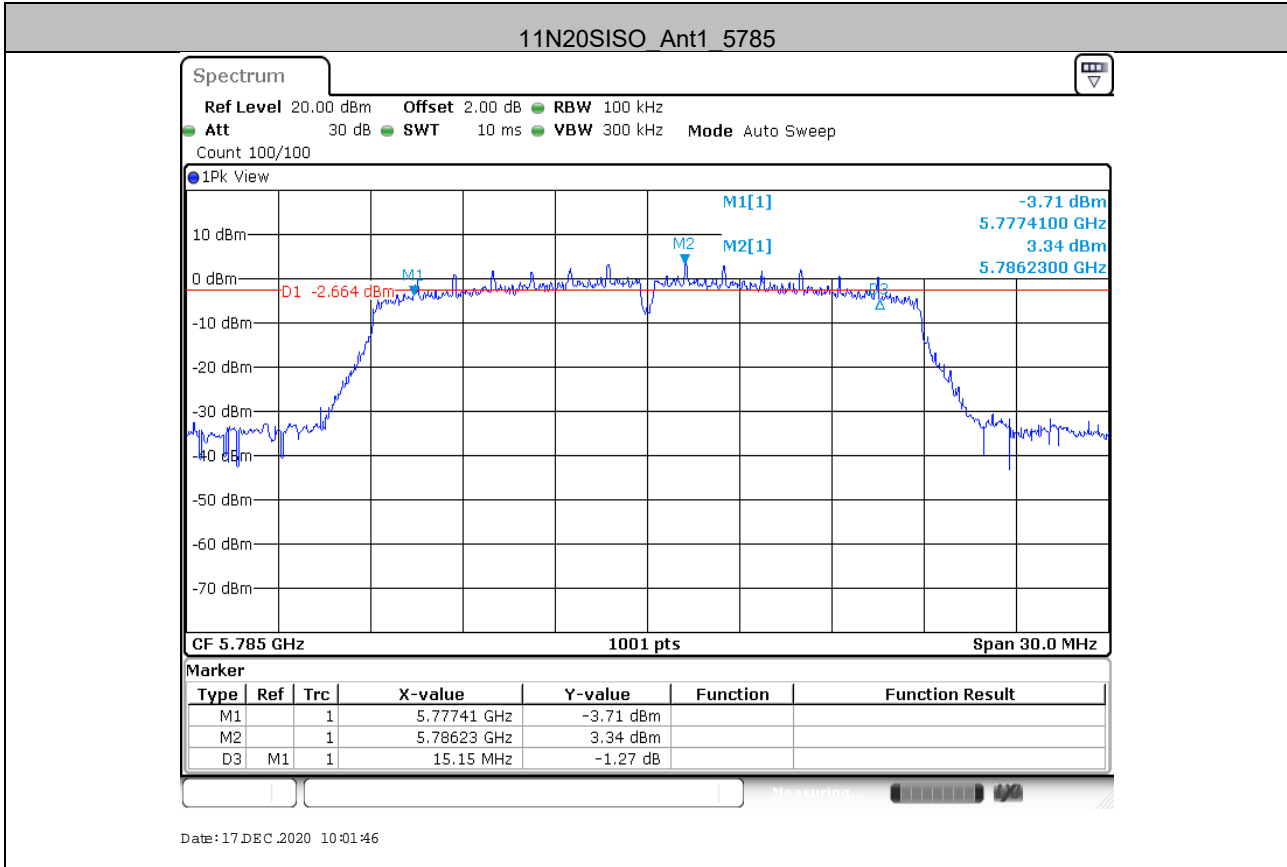
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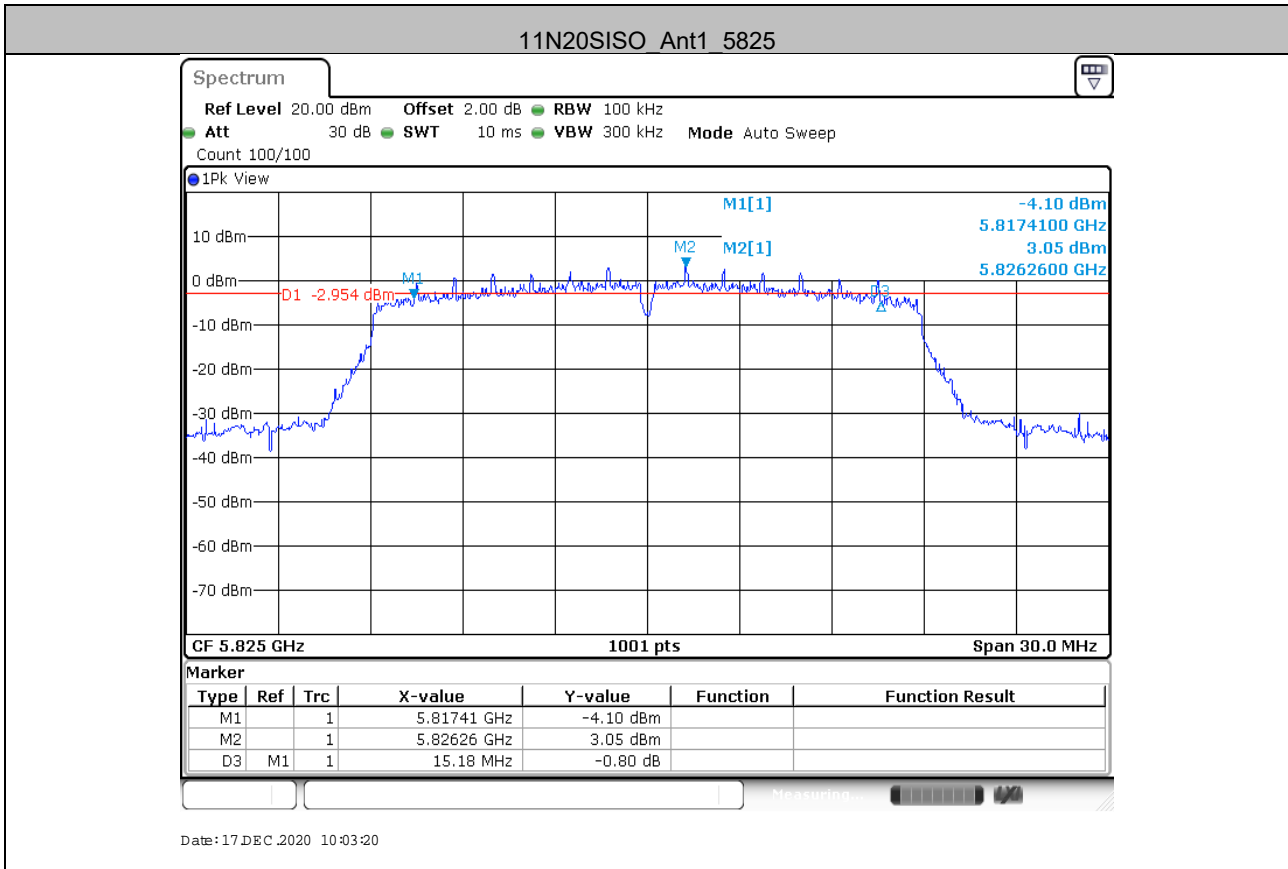
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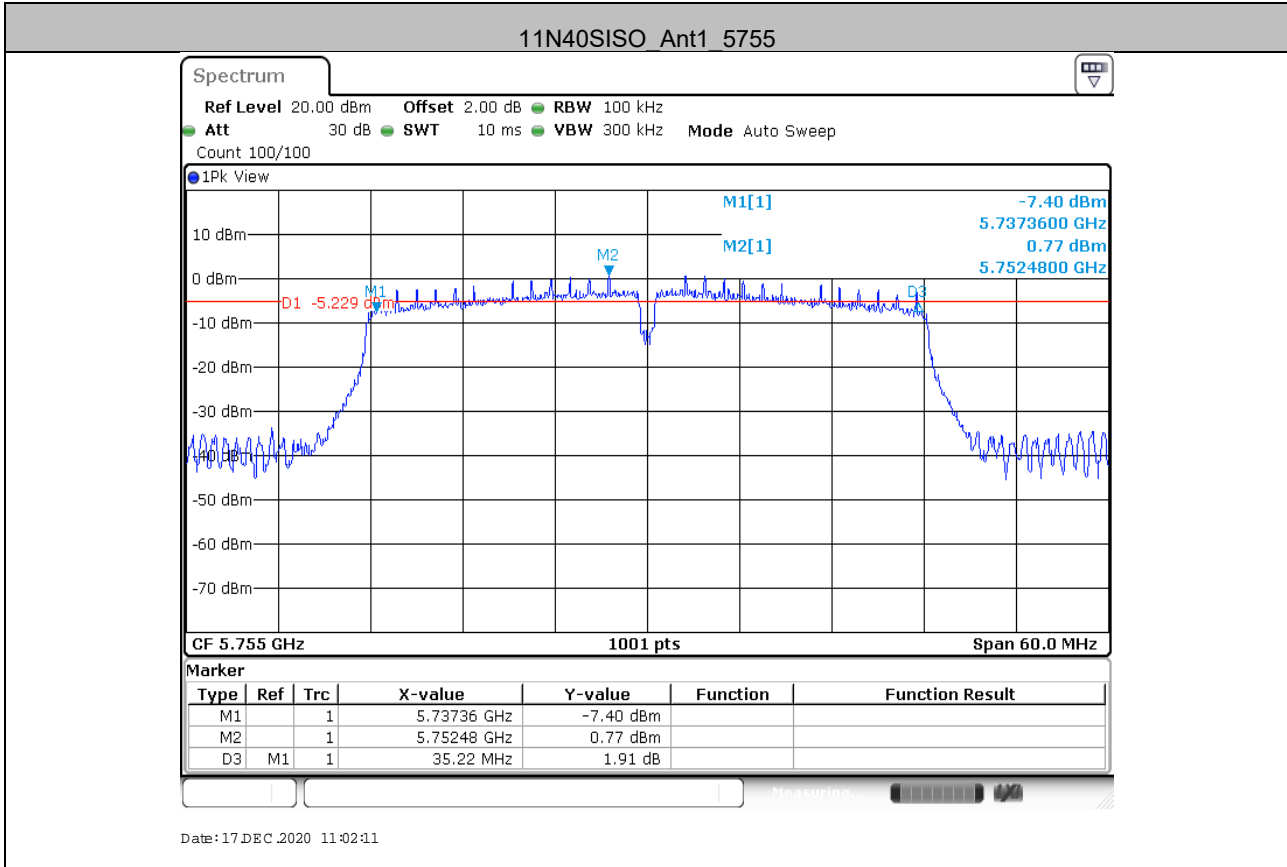


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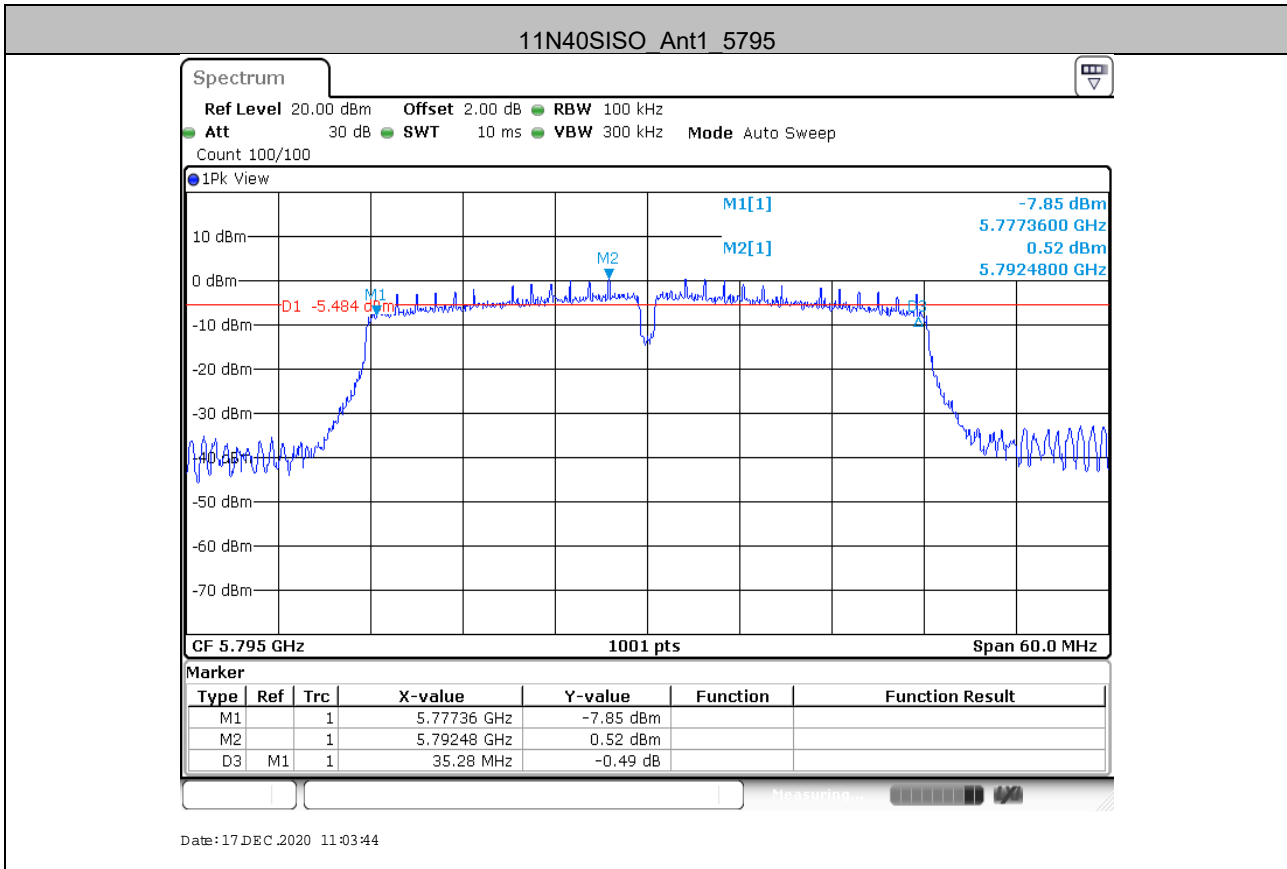
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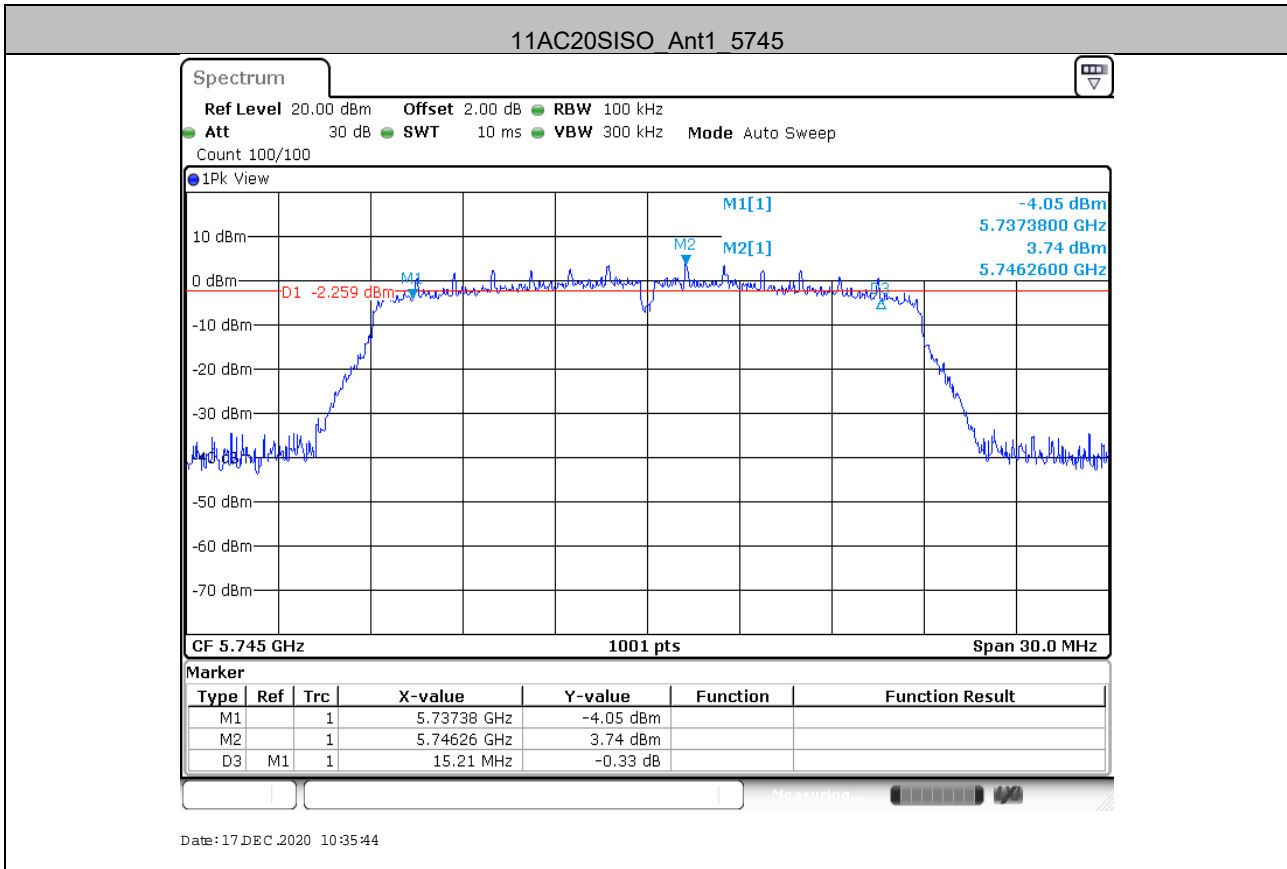
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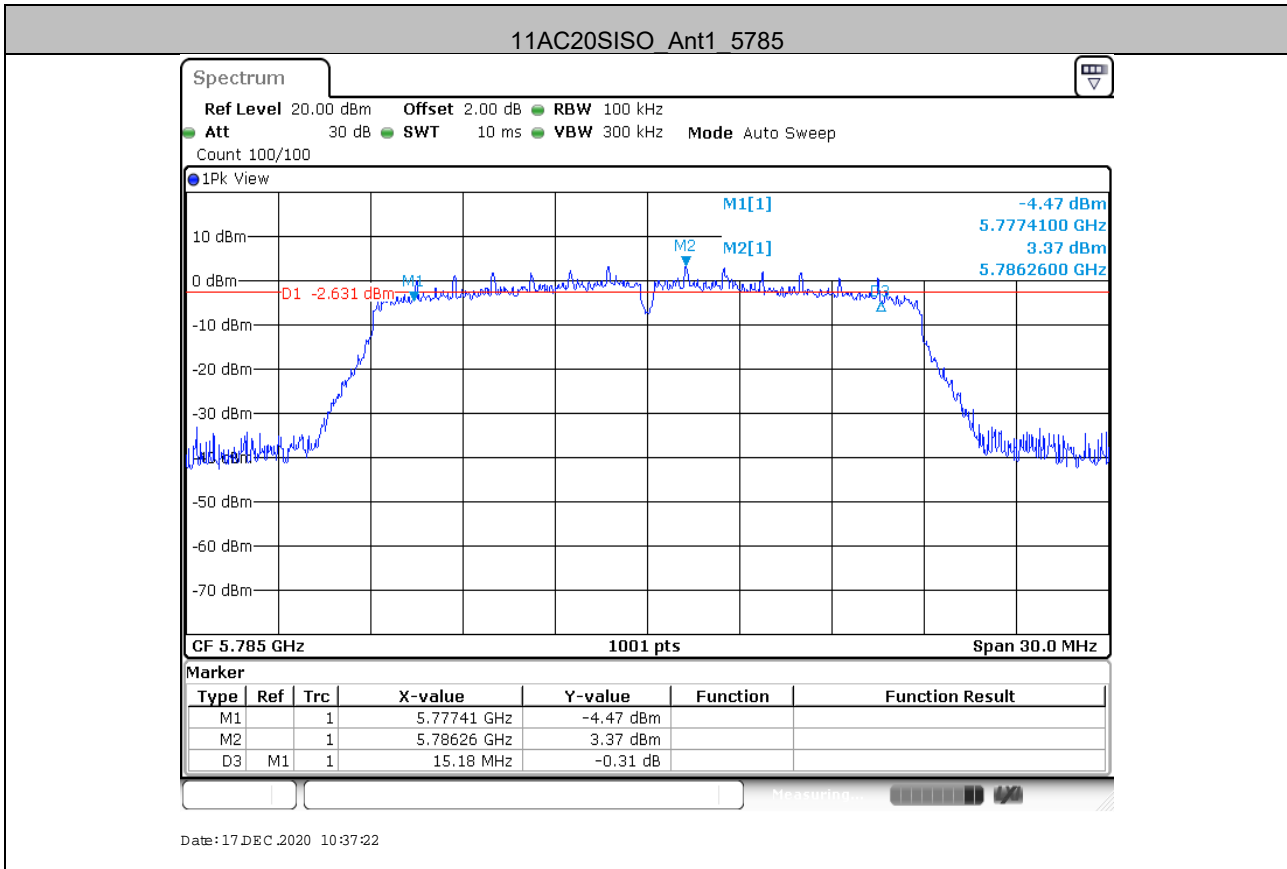
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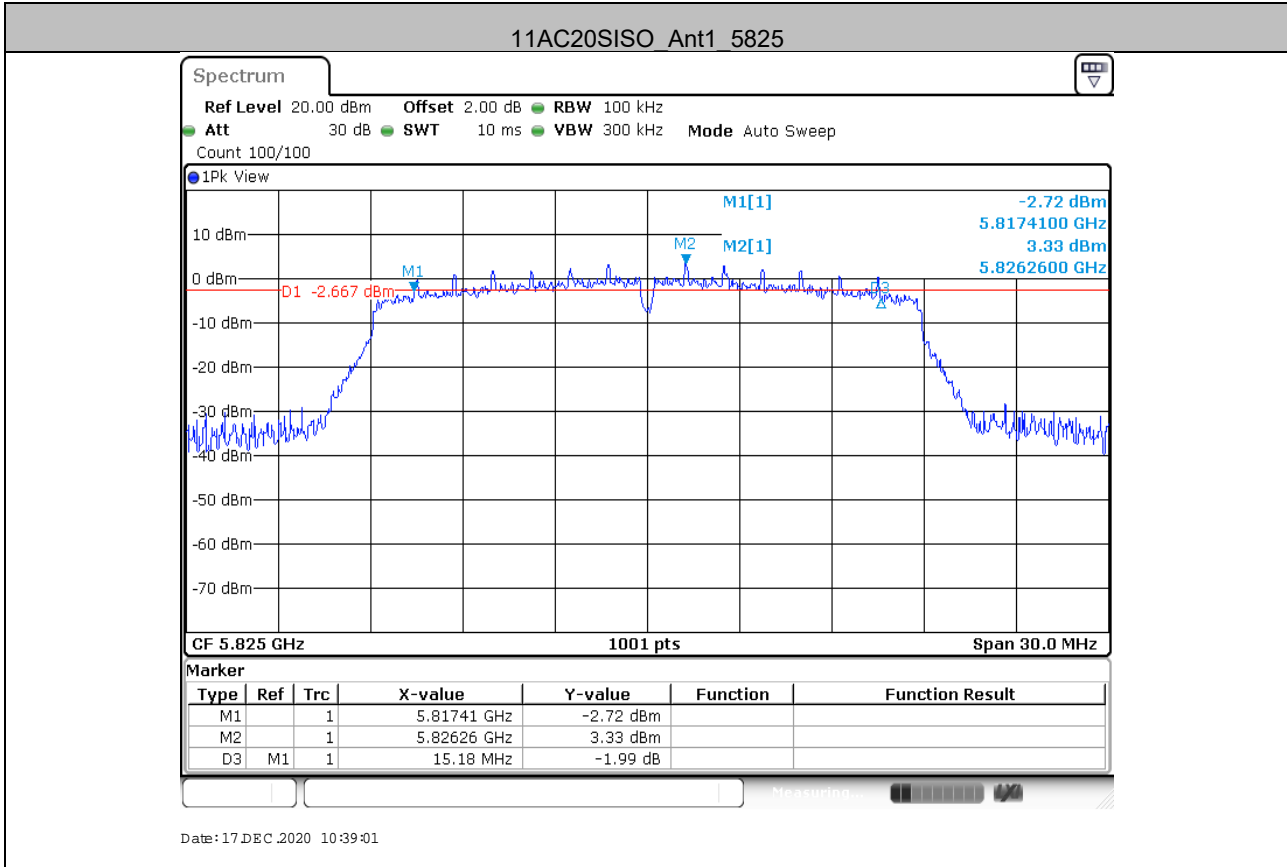


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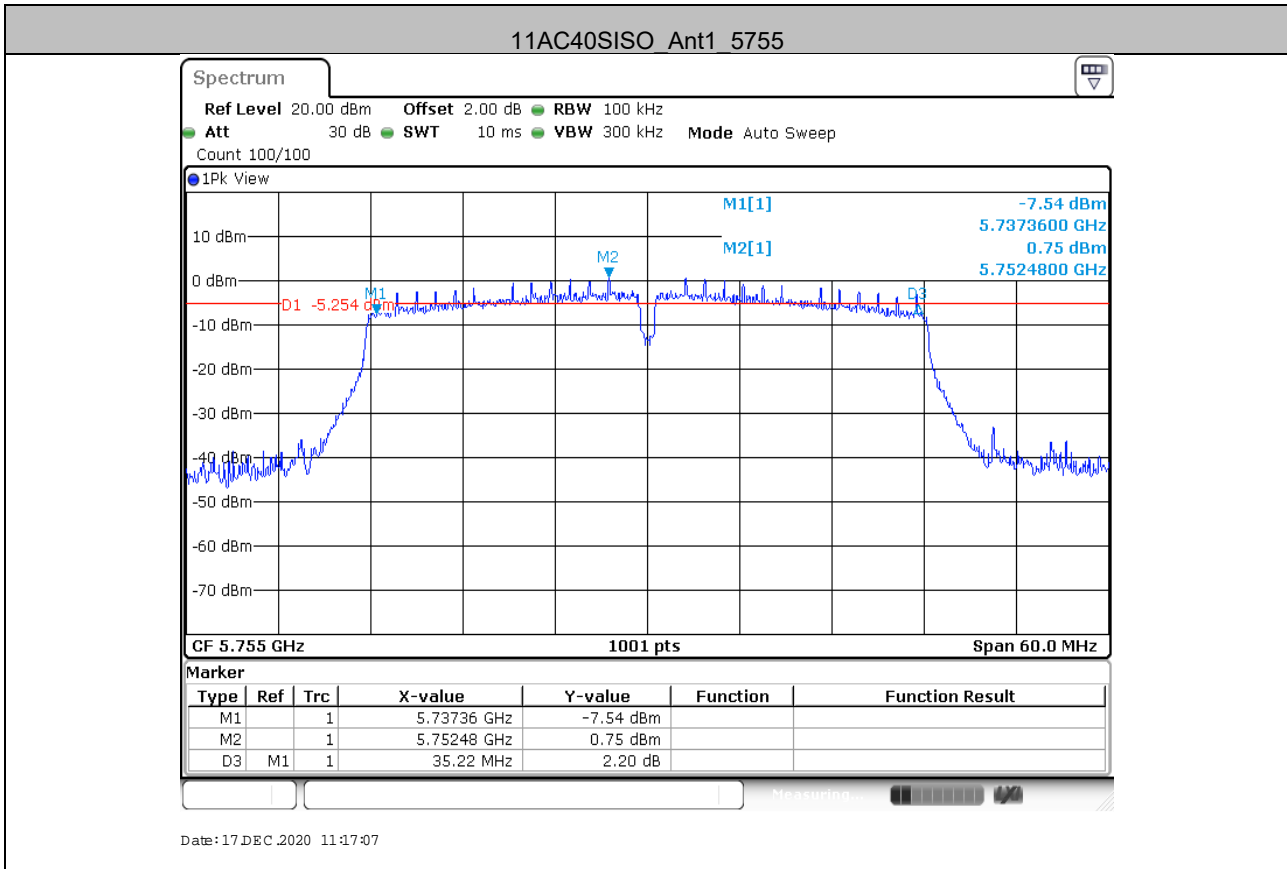


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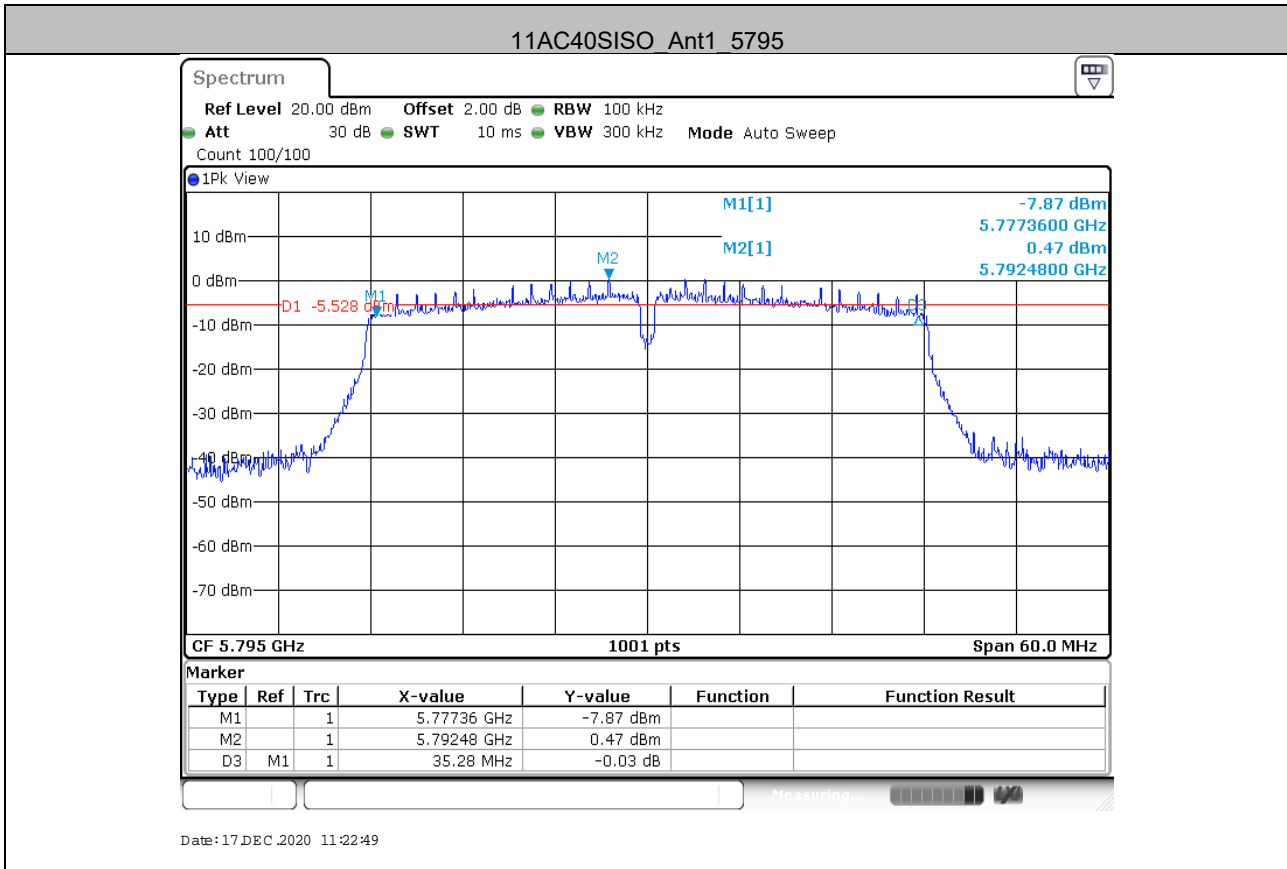


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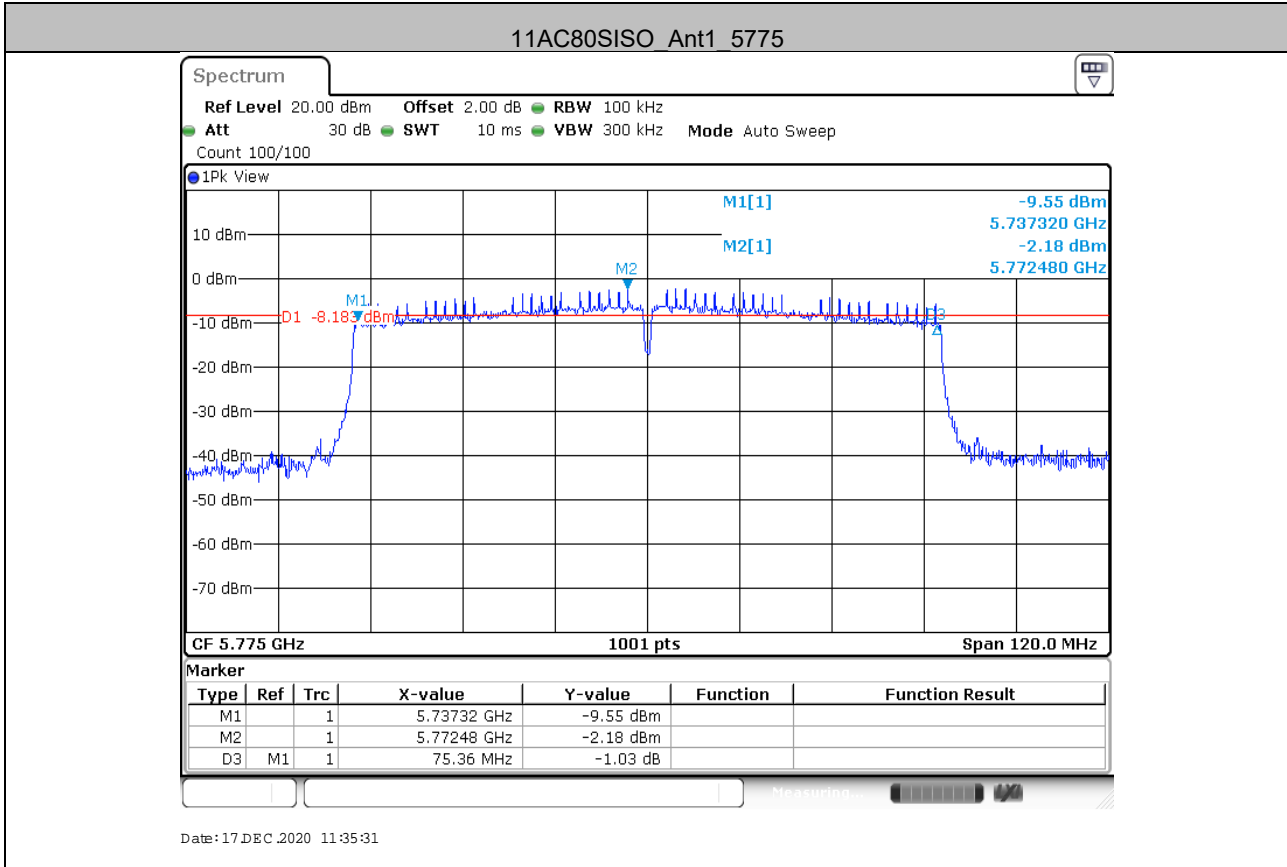
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**Maximum conducted output power**  
**Test Result**

TestMode	Antenna	Channel	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP.) [dBm]	Verdict
11A	Ant1	5180	11.96	11.46	PASS
		5200	14.65	14.15	PASS
		5240	18.88	18.38	PASS
		5260	18.11	17.61	PASS
		5300	14.23	13.73	PASS
		5320	11.60	11.1	PASS
		5500	11.03	10.53	PASS
		5580	17.96	17.46	PASS
		5700	10.51	10.01	PASS
		5745	18.83	18.33	PASS
		5785	18.48	17.98	PASS
		5825	18.01	17.51	PASS
11N20SISO	Ant1	5180	11.28	10.78	PASS
		5200	14.56	14.06	PASS
		5240	18.72	18.22	PASS
		5260	18.04	17.54	PASS
		5300	14.06	13.56	PASS
		5320	11.01	10.51	PASS
		5500	11.43	10.93	PASS
		5580	17.94	17.44	PASS
		5700	10.38	9.88	PASS
		5745	18.77	18.27	PASS
		5785	18.41	17.91	PASS
		5825	17.95	17.45	PASS
11N40SISO	Ant1	5190	9.37	8.87	PASS
		5230	17.66	17.16	PASS
		5270	16.97	16.47	PASS
		5310	10.04	9.54	PASS



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		5510	8.94	8.44	PASS
		5550	15.11	14.61	PASS
		5670	13.00	12.5	PASS
		5755	17.79	17.29	PASS
		5795	17.44	16.94	PASS
11AC20SISO	Ant1	5180	11.37	10.87	PASS
		5200	14.56	14.06	PASS
		5240	18.70	18.2	PASS
		5260	17.91	17.41	PASS
		5300	14.11	13.61	PASS
		5320	11.51	11.01	PASS
		5500	11.00	10.5	PASS
		5580	17.83	17.33	PASS
		5700	10.39	9.89	PASS
		5745	18.81	18.31	PASS
		5785	18.44	17.94	PASS
		5825	18.01	17.51	PASS
11AC40SISO	Ant1	5190	9.29	8.79	PASS
		5230	17.64	17.14	PASS
		5270	17.03	16.53	PASS
		5310	10.01	9.51	PASS
		5510	8.89	8.39	PASS
		5550	14.97	14.47	PASS
		5670	12.95	12.45	PASS
		5755	17.82	17.32	PASS
		5795	17.44	16.94	PASS
11AC80SISO	Ant1	5210	7.63	7.13	PASS
		5290	10.07	9.57	PASS
		5530	8.94	8.44	PASS
		5610	13.05	12.55	PASS
		5775	14.84	14.34	PASS



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**Maximum power spectral density**  
**Test Result**

TestMode	Antenna	Channel	Corr'd Level(Cond.) [dBm/1MHz(For UNII Band I/II)/500KHz(For UNII Band III)]	Verdict
11A	Ant1	5180	1.50	PASS
		5200	4.32	PASS
		5240	8.42	PASS
		5260	7.65	PASS
		5300	3.81	PASS
		5320	1.26	PASS
		5500	0.71	PASS
		5580	7.49	PASS
		5700	0.08	PASS
		5745	5.53	PASS
		5785	5.27	PASS
		5825	4.76	PASS
		11N20SISO	Ant1	5180
5200	3.99			PASS
5240	8.11			PASS
5260	7.46			PASS
5300	3.43			PASS
5320	0.44			PASS
5500	0.90			PASS
5580	7.36			PASS
5700	-0.23			PASS
5745	5.39			PASS
5785	4.93			PASS
5825	4.62			PASS
11N40SISO	Ant1			5190
		5230	4.90	PASS
		5270	3.85	PASS
		5310	-2.93	PASS



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		5510	-4.24	PASS
		5550	2.01	PASS
		5670	-0.21	PASS
		5755	1.56	PASS
		5795	1.32	PASS
11AC20SISO	Ant1	5180	0.82	PASS
		5200	4.06	PASS
		5240	8.12	PASS
		5260	7.30	PASS
		5300	3.48	PASS
		5320	0.96	PASS
		5500	0.36	PASS
		5580	7.20	PASS
		5700	-0.25	PASS
		5745	5.36	PASS
		5785	4.99	PASS
		5825	4.49	PASS
		11AC40SISO	Ant1	5190
5230	4.38			PASS
5270	3.81			PASS
5310	-3.15			PASS
5510	-4.31			PASS
5550	1.68			PASS
5670	-0.30			PASS
5755	1.55			PASS
5795	1.14			PASS
11AC80SISO	Ant1	5210	-8.39	PASS
		5290	-5.91	PASS
		5530	-7.12	PASS
		5610	-2.97	PASS
		5775	-4.13	PASS



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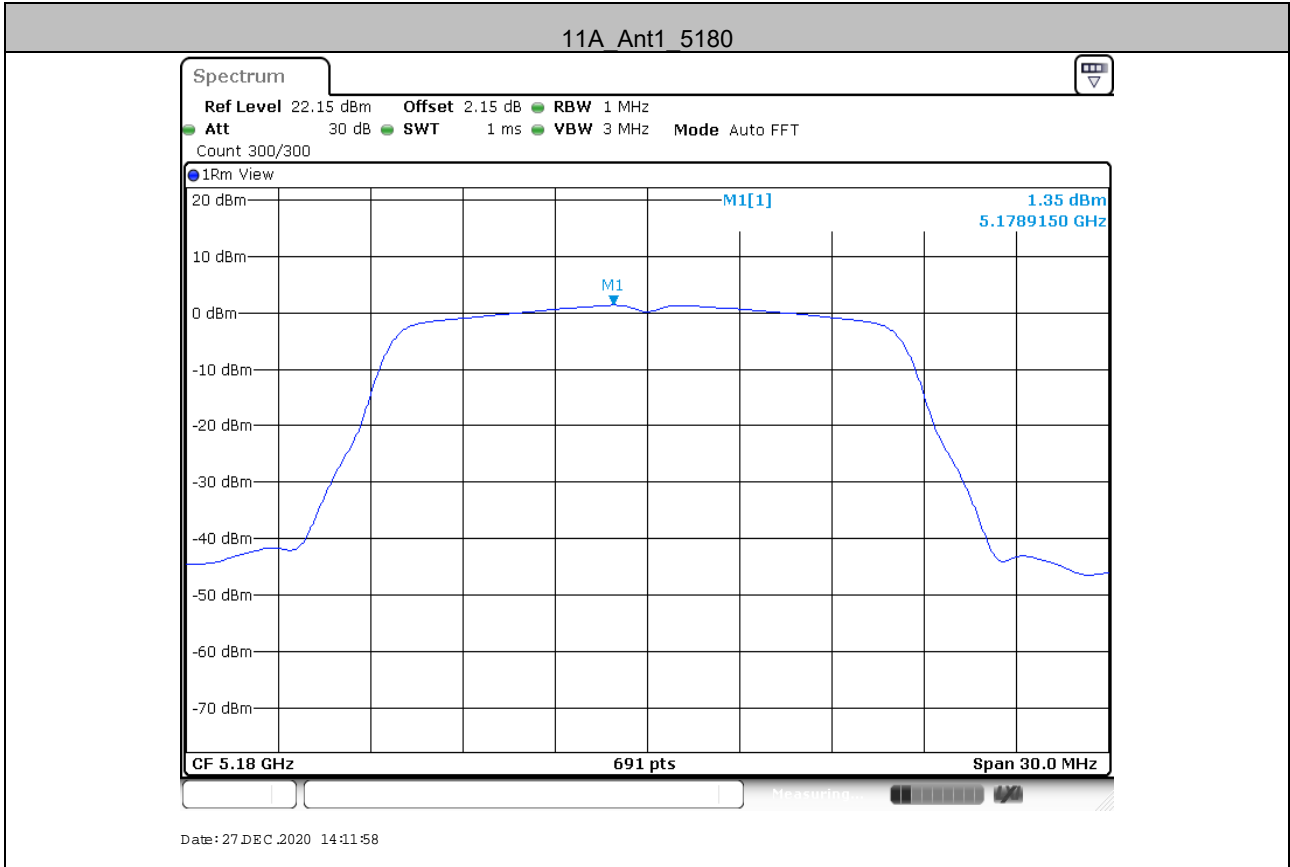
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- Note : 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.  
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



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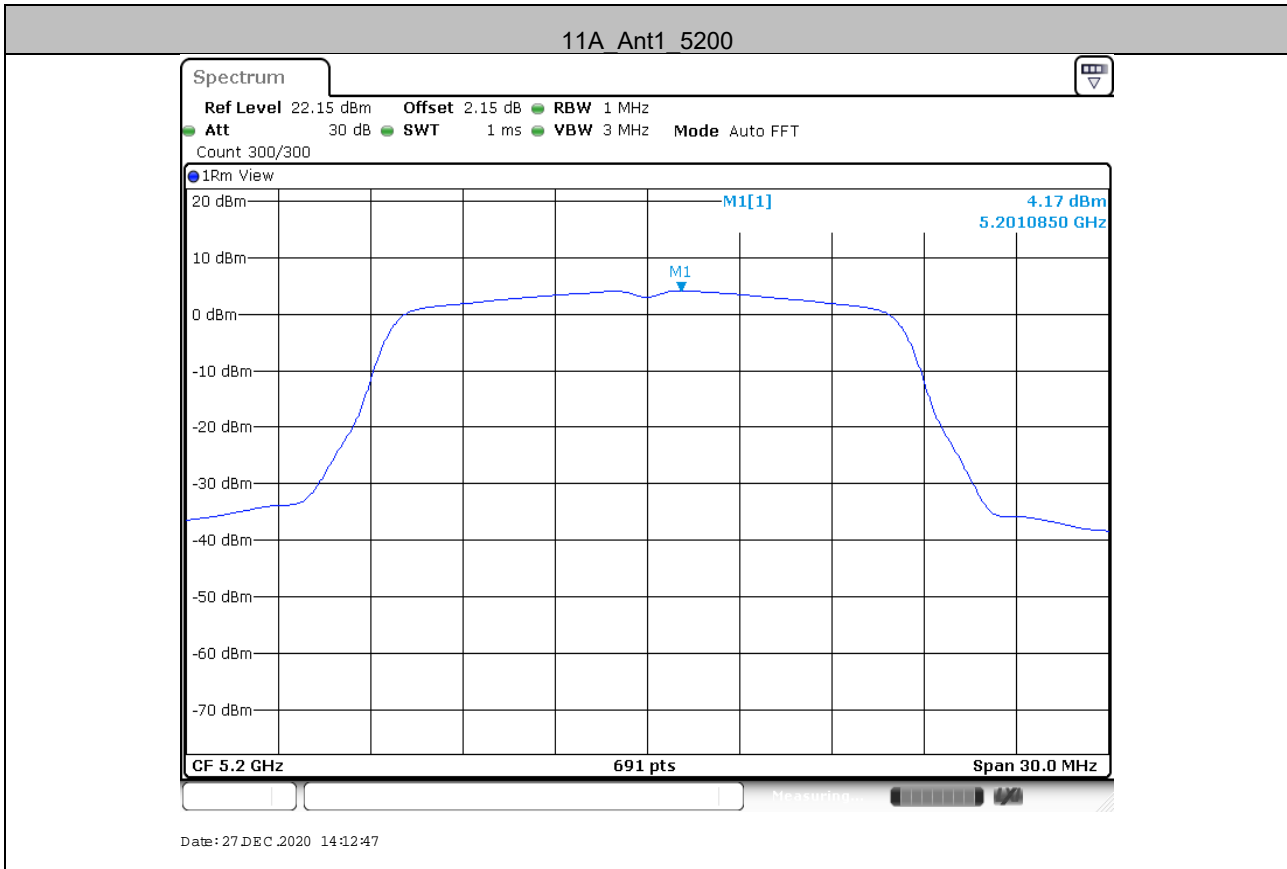
### Test Graphs



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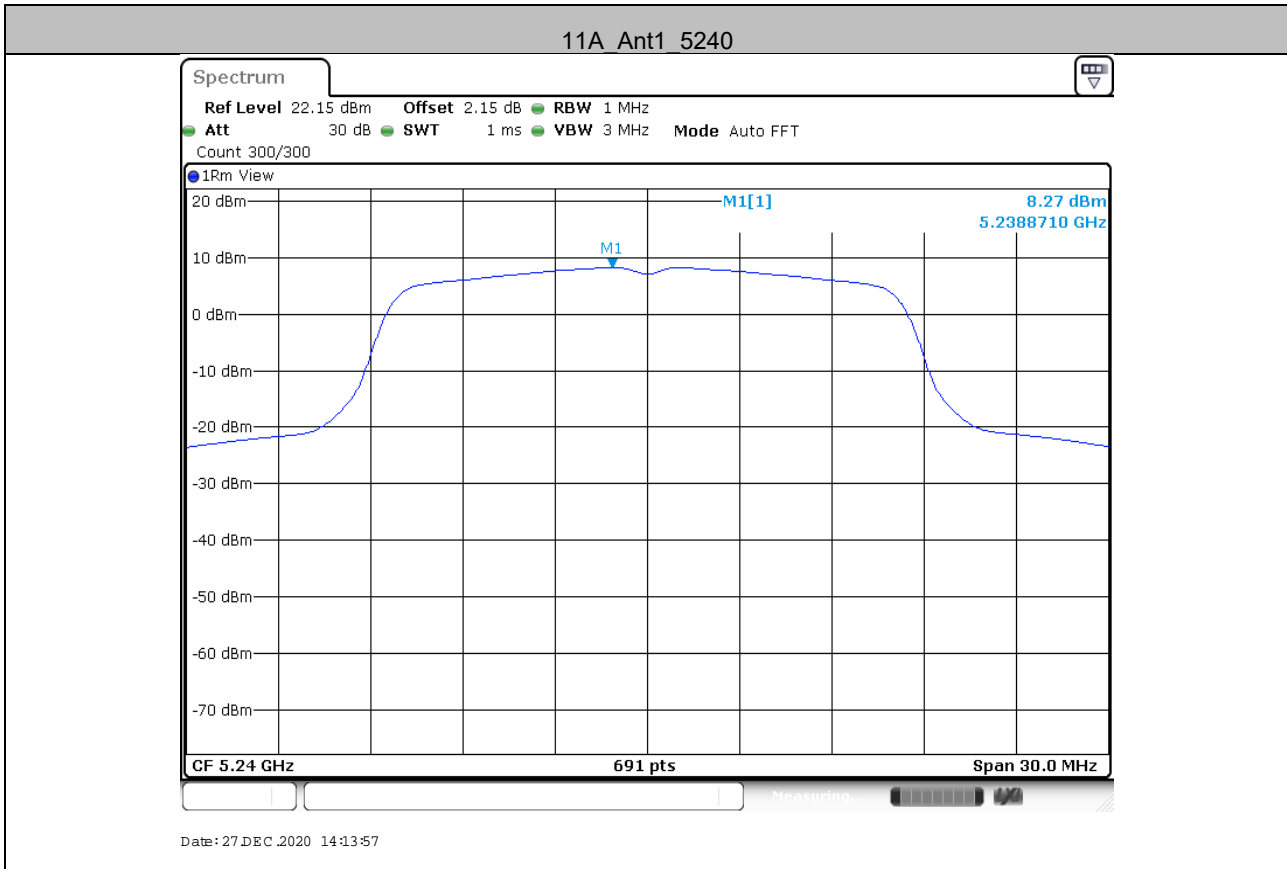
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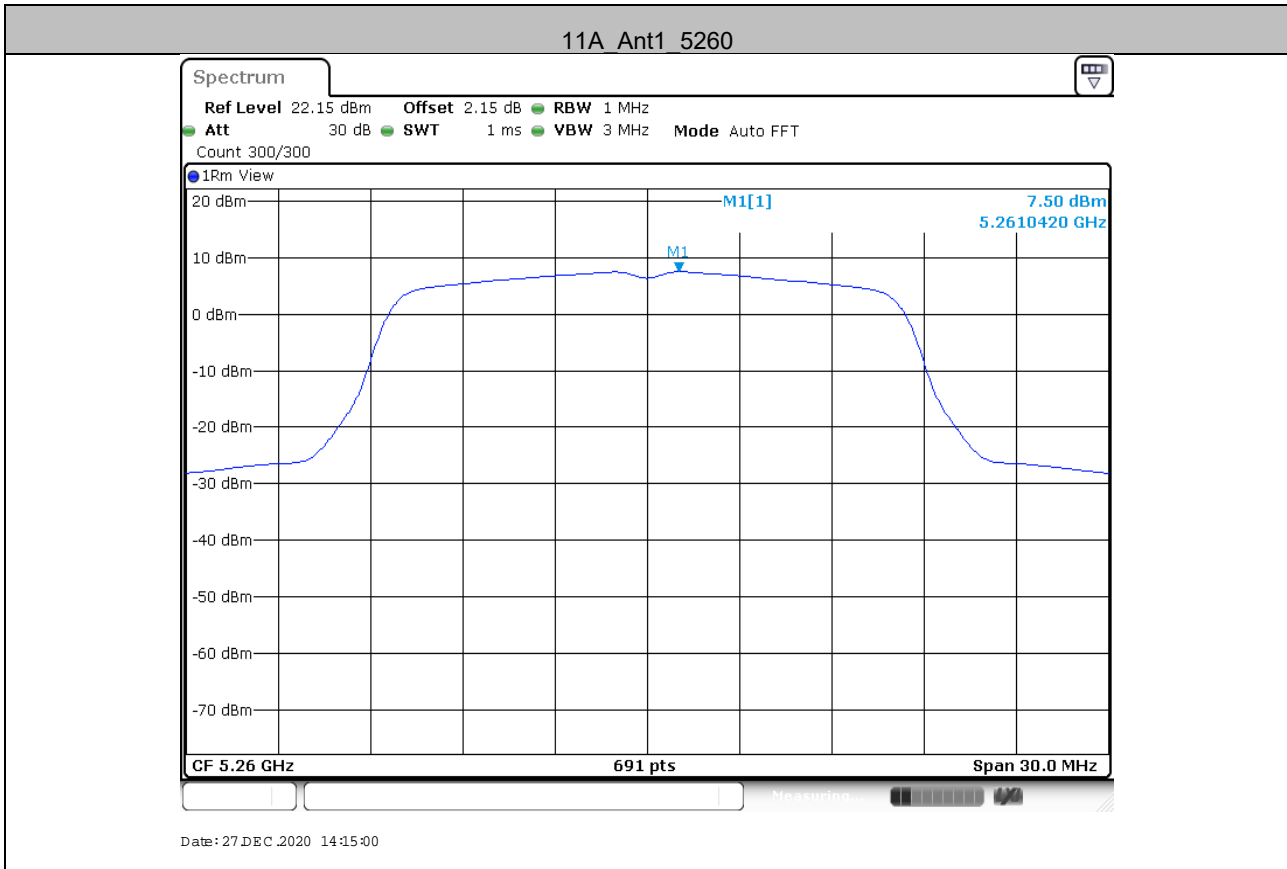


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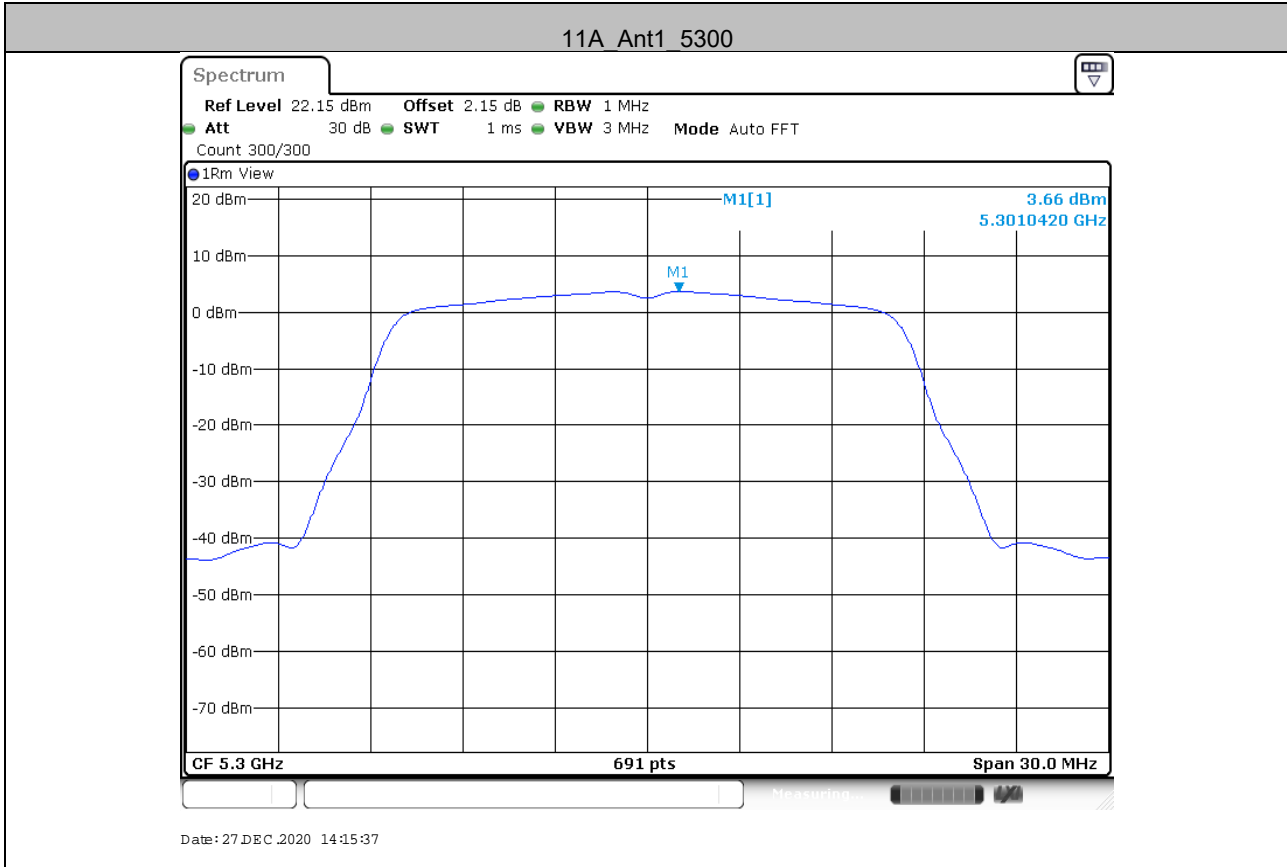
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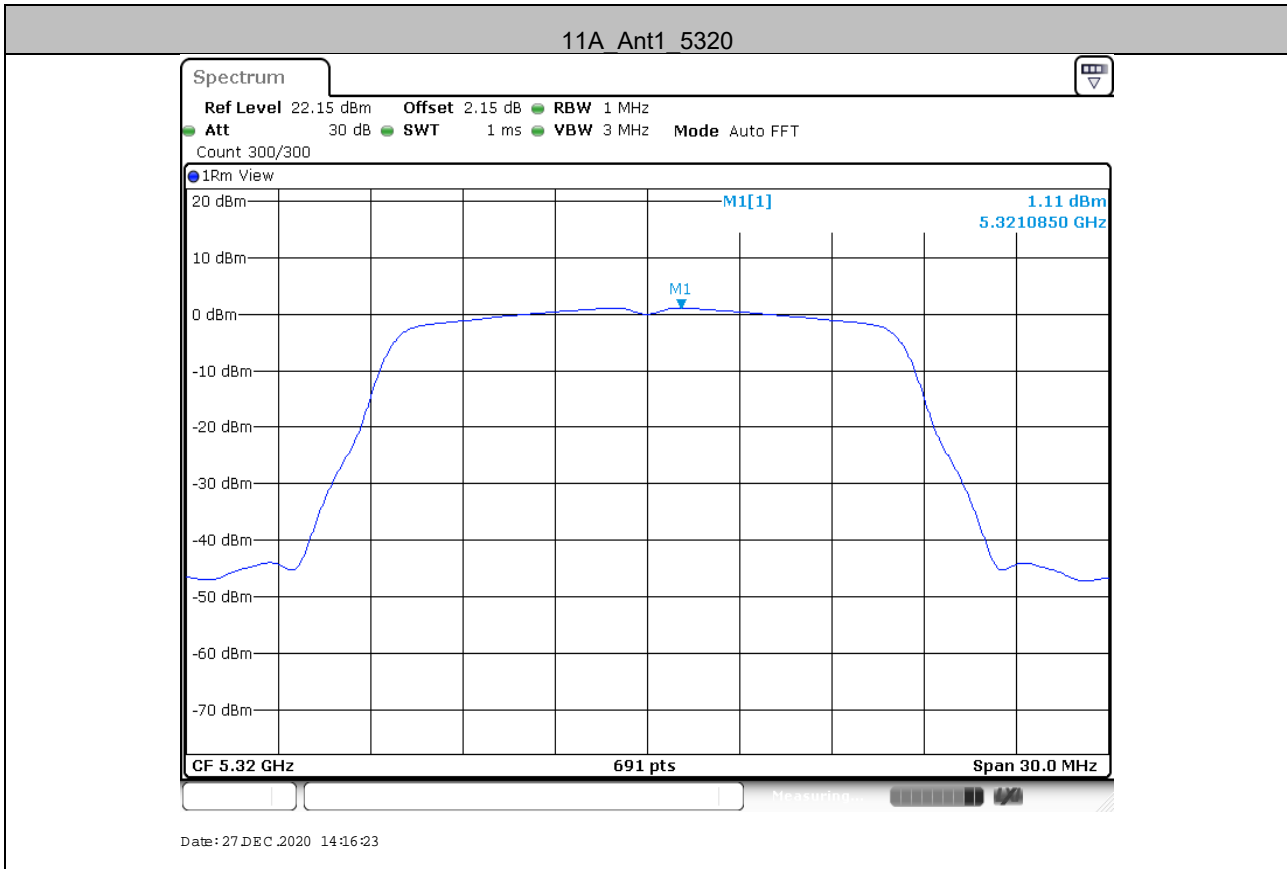
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