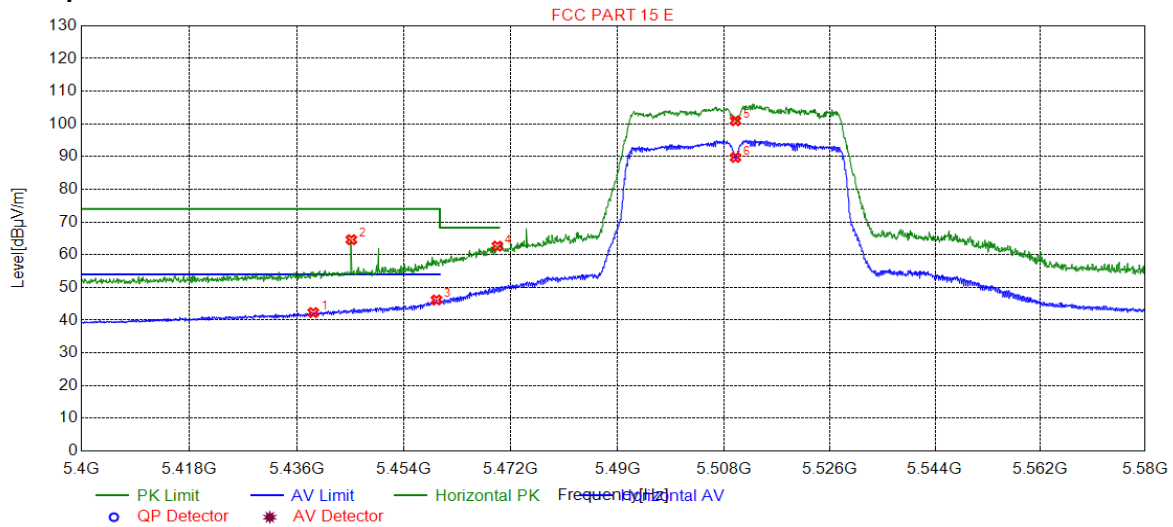


4.10.1.73 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5438.719	42.34	54.00	11.66	397	231	Horizontal
2	5445.112	64.61	74.00	9.39	222	314	Horizontal
3	5459.429	46.19	54.00	7.81	336	231	Horizontal
4	5469.694	62.65	68.30	5.65	284	231	Horizontal
5	5510.000	100.98	0.00	-100.98	125	236	Horizontal
6	5510.000	89.76	0.00	-89.76	237	231	Horizontal

Final Data List



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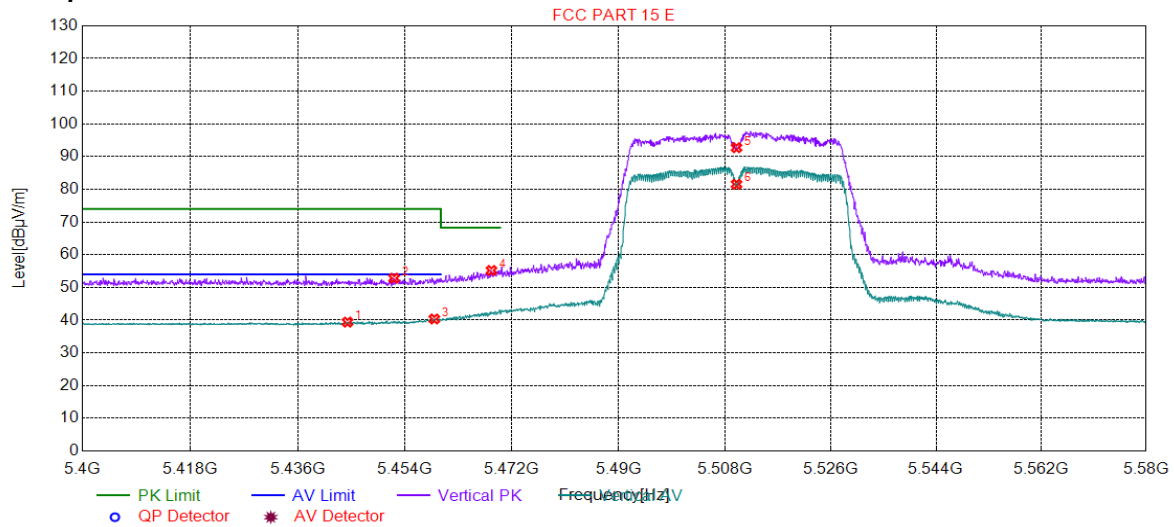
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4.10.1.74 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5444.302	39.42	54.00	14.58	245	257	Vertical
2	5452.136	52.85	74.00	21.15	115	139	Vertical
3	5458.889	40.38	54.00	13.62	158	144	Vertical
4	5468.524	55.21	68.30	13.09	123	144	Vertical
5	5510.000	92.75	0.00	-92.75	247	139	Vertical
6	5510.000	81.57	0.00	-81.57	377	144	Vertical

Final Data List



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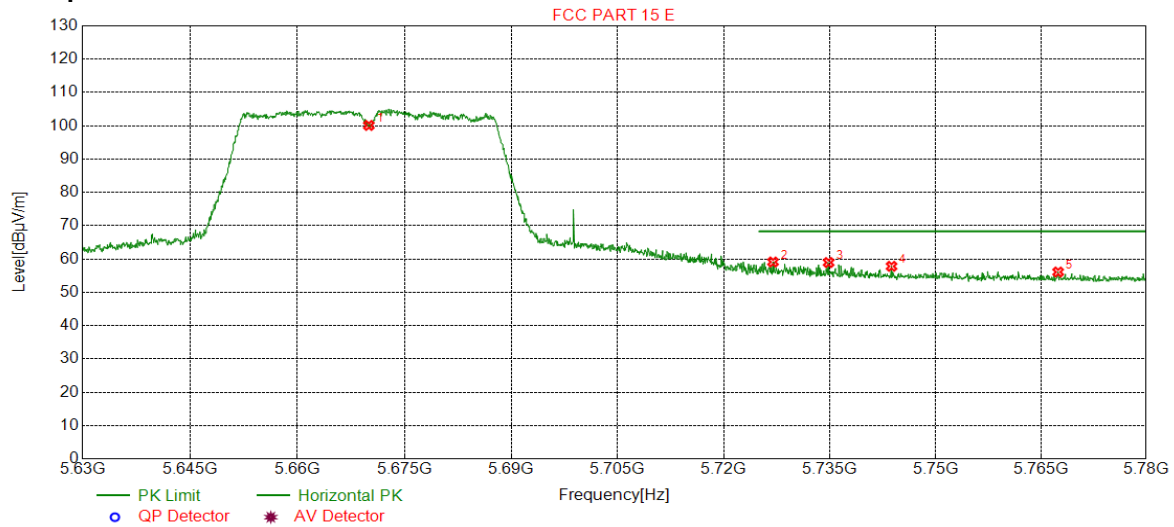
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4.10.1.75 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	100.10	0.00	-100.10	340	227	Horizontal
2	5726.948	59.12	68.30	9.18	345	230	Horizontal
3	5734.827	58.96	68.30	9.34	264	230	Horizontal
4	5743.756	57.82	68.30	10.48	351	227	Horizontal
5	5767.468	56.11	68.30	12.19	320	230	Horizontal

Final Data List



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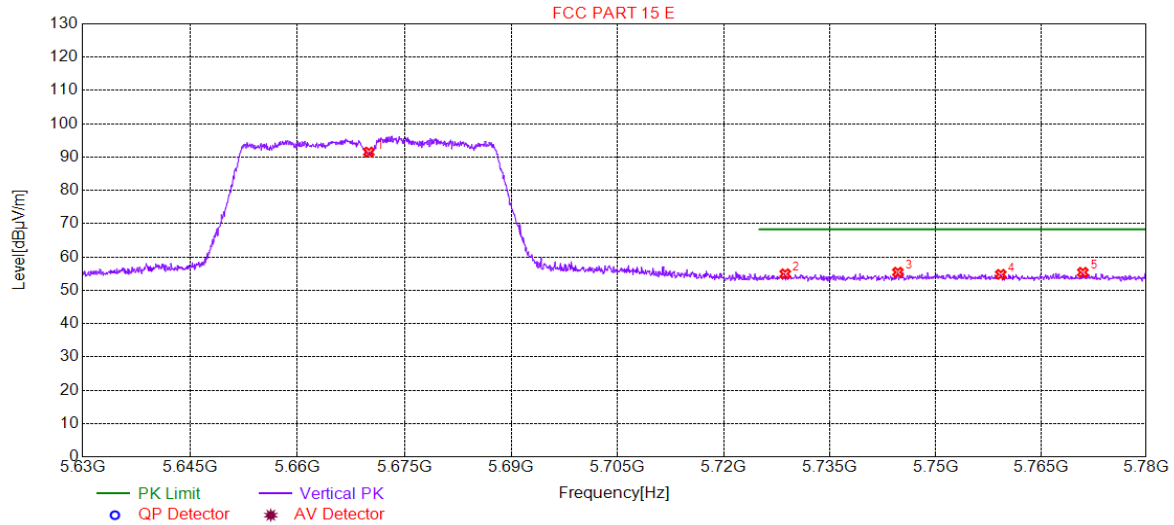
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4.10.1.76 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	91.52	0.00	-91.52	199	208	Vertical
2	5728.674	54.96	68.30	13.34	173	49	Vertical
3	5744.657	55.45	68.30	12.85	271	344	Vertical
4	5759.289	54.79	68.30	13.51	274	132	Vertical
5	5770.995	55.41	68.30	12.89	361	85	Vertical

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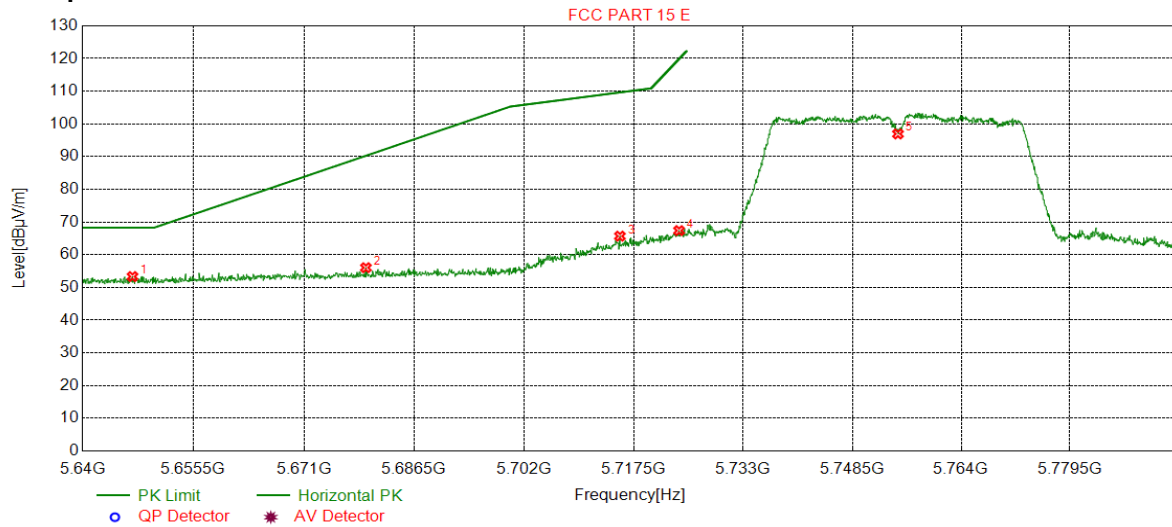
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4.10.1.77 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.978	53.34	68.30	14.96	285	16	Horizontal
2	5679.699	56.06	90.28	34.22	357	310	Horizontal
3	5715.522	65.70	109.65	43.95	173	235	Horizontal
4	5723.896	67.39	119.79	52.40	283	220	Horizontal
5	5755.000	96.95	0.00	-96.95	137	227	Horizontal

Final Data List



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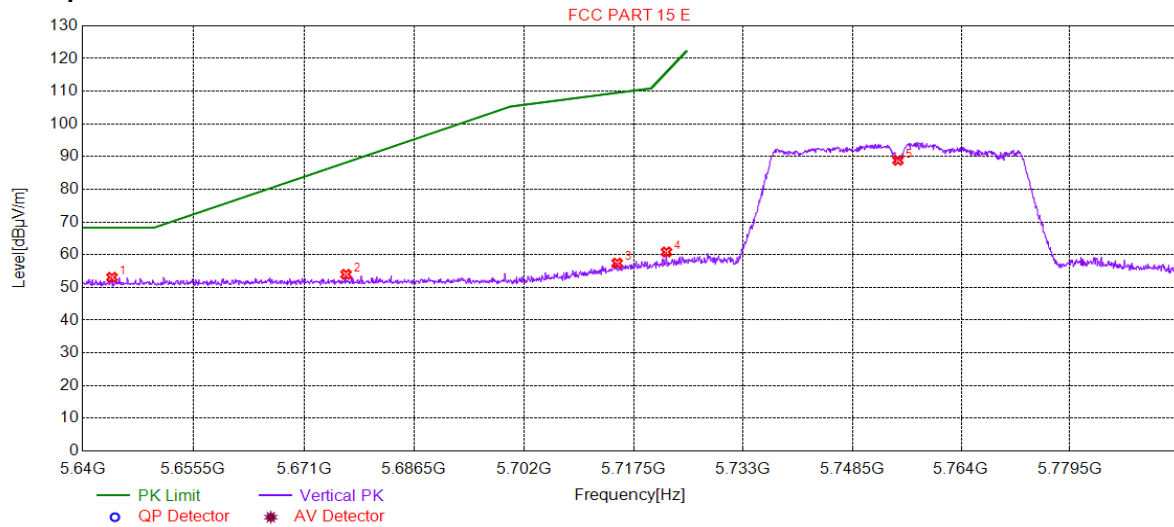
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4.10.1.78 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.109	53.11	68.30	15.19	184	169	Vertical
2	5676.908	54.01	88.21	34.20	114	208	Vertical
3	5715.135	57.46	109.54	52.08	300	187	Vertical
4	5722.113	60.85	115.72	54.87	314	4	Vertical
5	5755.000	88.89	0.00	-88.89	229	201	Vertical

Final Data List

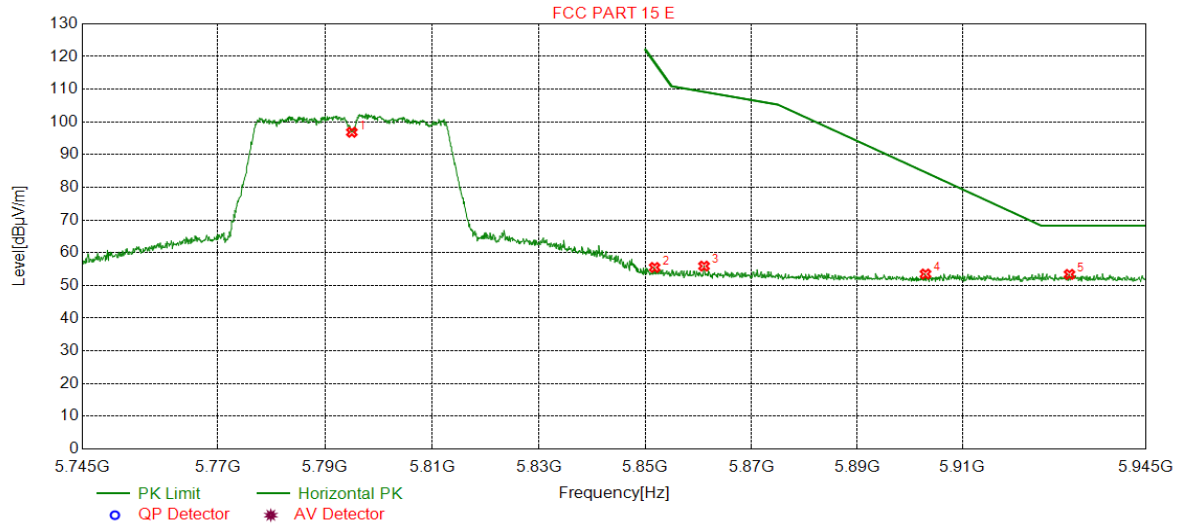


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4.10.1.79 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	96.85	0.00	-96.85	149	228	Horizontal
2	5851.753	55.52	118.30	62.78	224	231	Horizontal
3	5861.058	55.93	109.20	53.27	396	224	Horizontal
4	5902.979	53.51	84.60	31.09	279	228	Horizontal
5	5930.392	53.40	68.30	14.90	270	119	Horizontal

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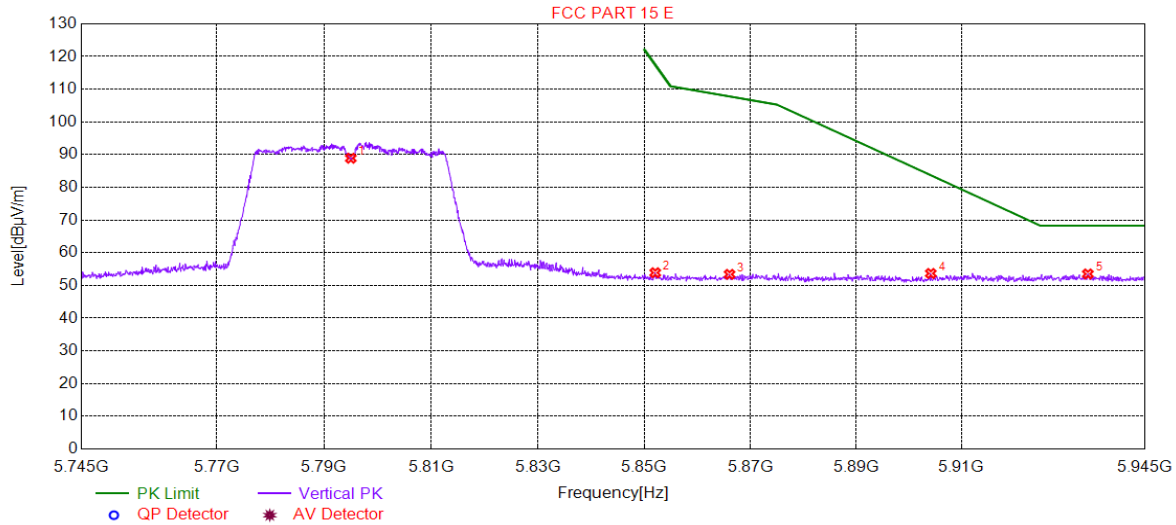
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4.10.1.80 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	88.91	0.00	-88.91	288	206	Vertical
2	5852.053	53.90	117.62	63.72	260	59	Vertical
3	5866.060	53.41	107.80	54.39	250	326	Vertical
4	5904.179	53.68	83.71	30.03	297	170	Vertical
5	5934.094	53.53	68.30	14.77	234	127	Vertical

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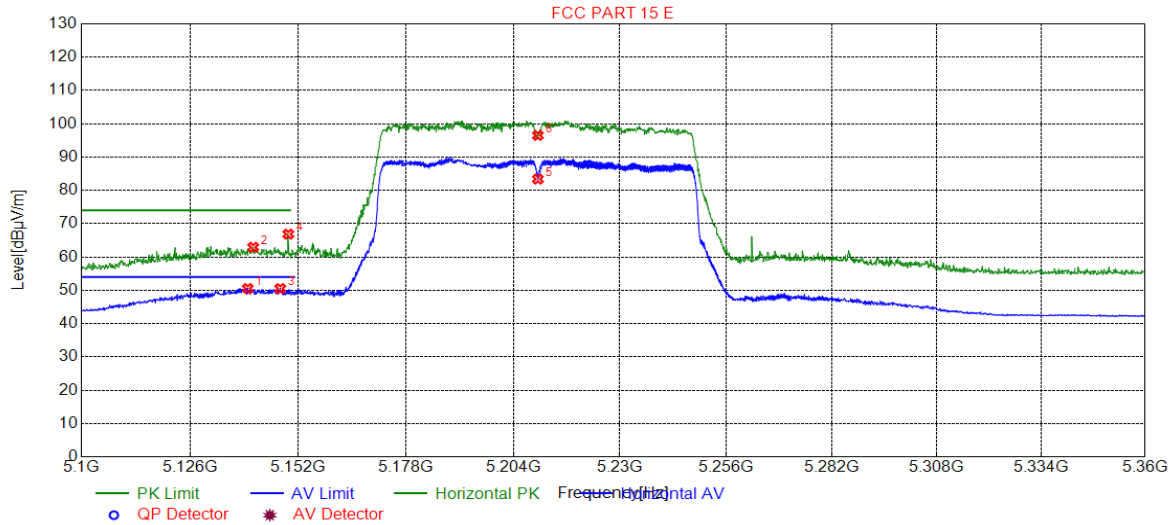
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4.10.1.81 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5139.799	50.57	54.00	3.43	110	231	Horizontal
2	5141.100	62.94	74.00	11.06	342	231	Horizontal
3	5147.603	50.55	54.00	3.45	374	231	Horizontal
4	5149.554	66.88	74.00	7.12	130	302	Horizontal
5	5210.000	83.39	0.00	-83.39	166	226	Horizontal
6	5210.000	96.50	0.00	-96.50	265	235	Horizontal

Final Data List

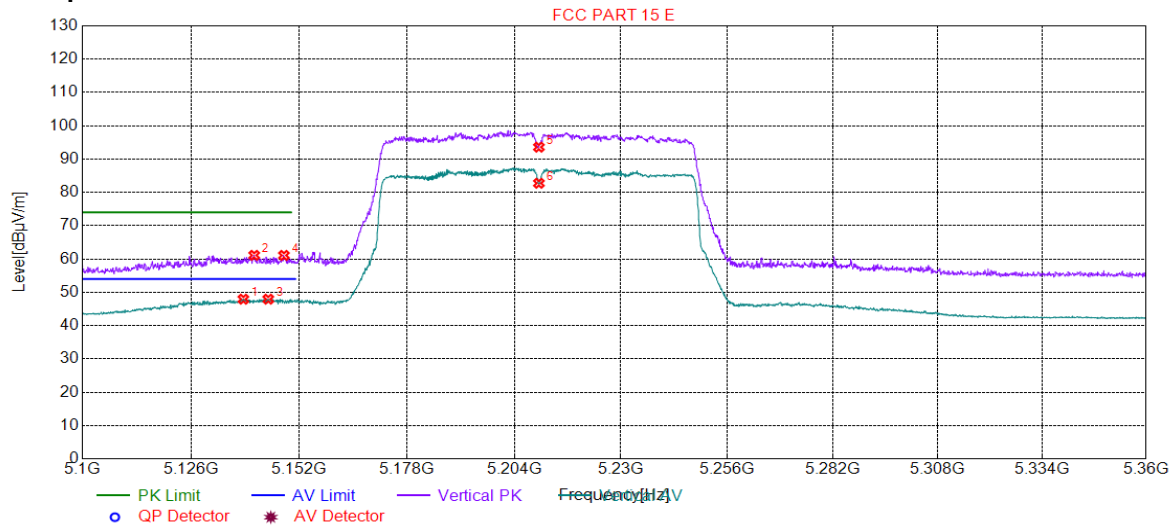


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4.10.1.82 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5138.499	47.96	54.00	6.04	203	168	Vertical
2	5141.100	61.12	74.00	12.88	276	164	Vertical
3	5144.482	47.96	54.00	6.04	351	168	Vertical
4	5148.254	61.10	74.00	12.90	388	174	Vertical
5	5210.000	93.59	0.00	-93.59	348	164	Vertical
6	5210.000	82.74	0.00	-82.74	340	168	Vertical

Final Data List



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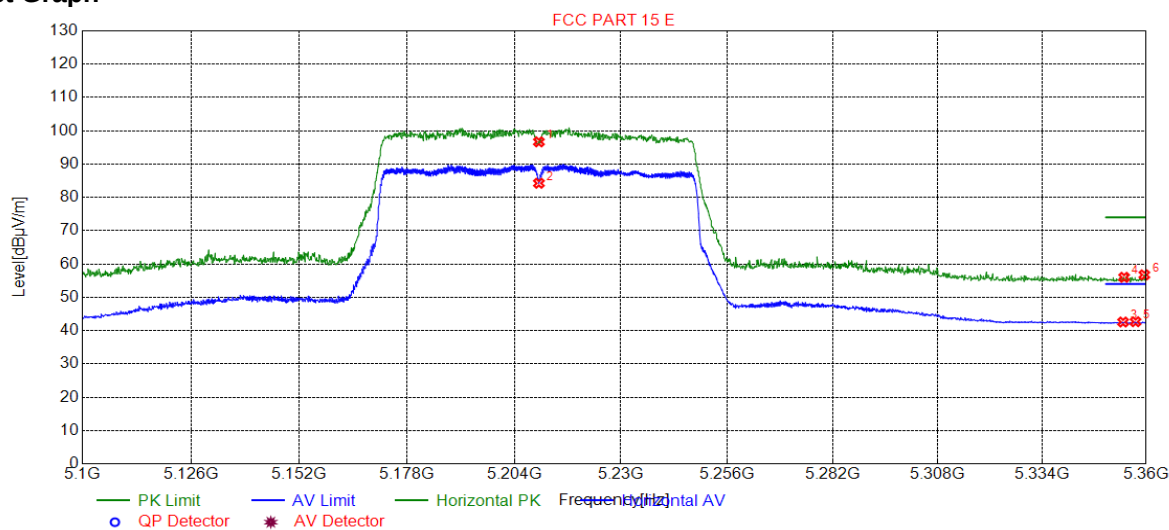
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4.10.1.83 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	96.68	0.00	-96.68	309	231	Horizontal
2	5210.000	84.25	0.00	-84.25	184	222	Horizontal
3	5354.277	42.60	54.00	11.40	125	335	Horizontal
4	5354.537	56.02	74.00	17.98	150	260	Horizontal
5	5357.398	42.69	54.00	11.31	110	231	Horizontal
6	5359.609	56.76	74.00	17.24	192	0	Horizontal

Final Data List

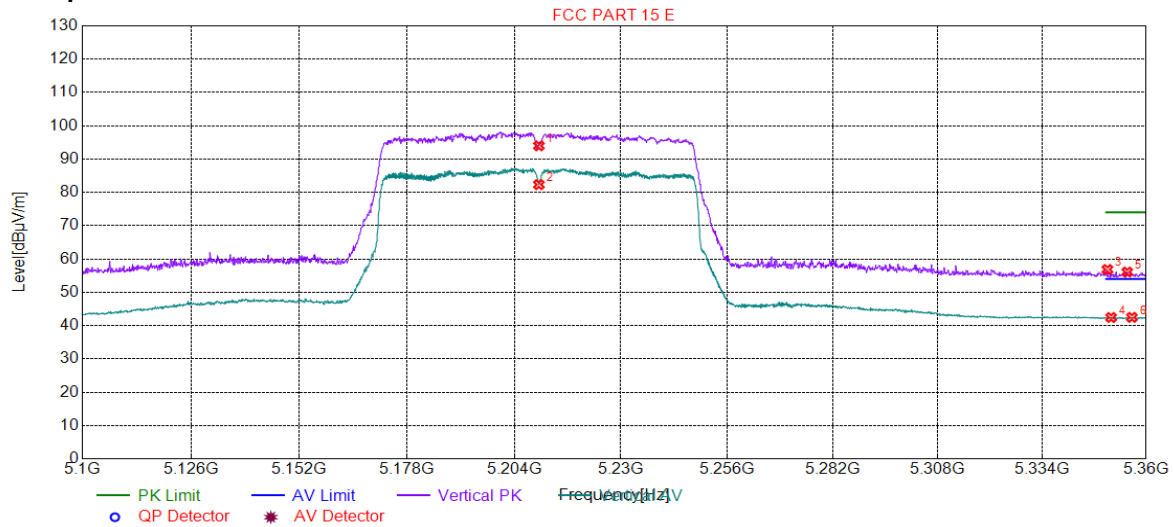


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4.10.1.84 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	93.99	0.00	-93.99	347	169	Vertical
2	5210.000	82.33	0.00	-82.33	391	164	Vertical
3	5350.375	56.87	74.00	17.13	231	40	Vertical
4	5351.285	42.47	54.00	11.53	346	144	Vertical
5	5355.317	56.12	74.00	17.88	114	19	Vertical
6	5356.488	42.50	54.00	11.50	343	15	Vertical

Final Data List

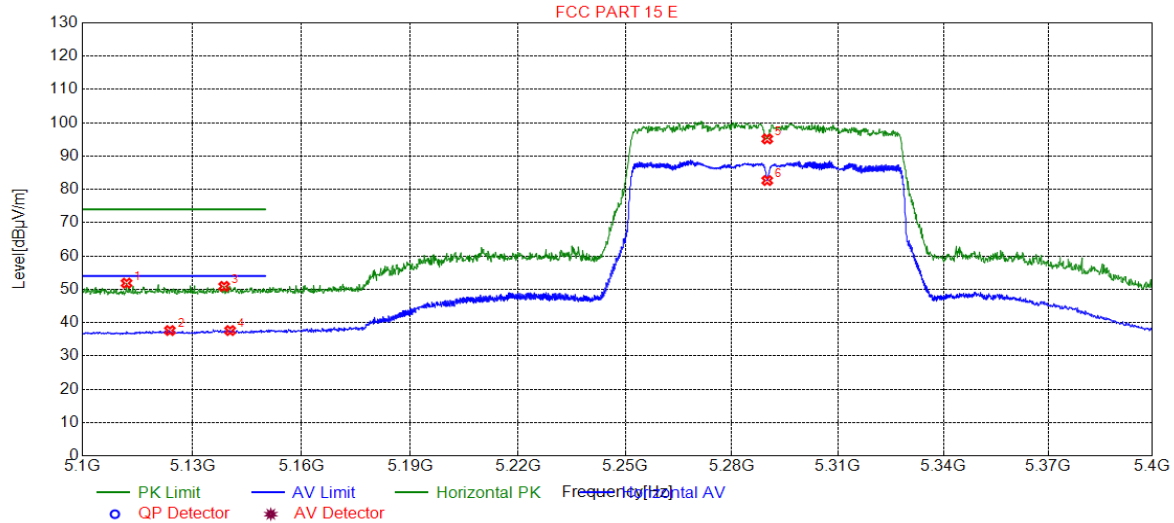


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4.10.1.85 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5112.006	51.86	74.00	22.14	194	235	Horizontal
2	5123.861	37.64	54.00	16.36	329	235	Horizontal
3	5138.719	50.89	74.00	23.11	263	235	Horizontal
4	5140.370	37.64	54.00	16.36	256	235	Horizontal
5	5290.000	95.16	0.00	-95.16	361	235	Horizontal
6	5290.000	82.66	0.00	-82.66	175	308	Horizontal

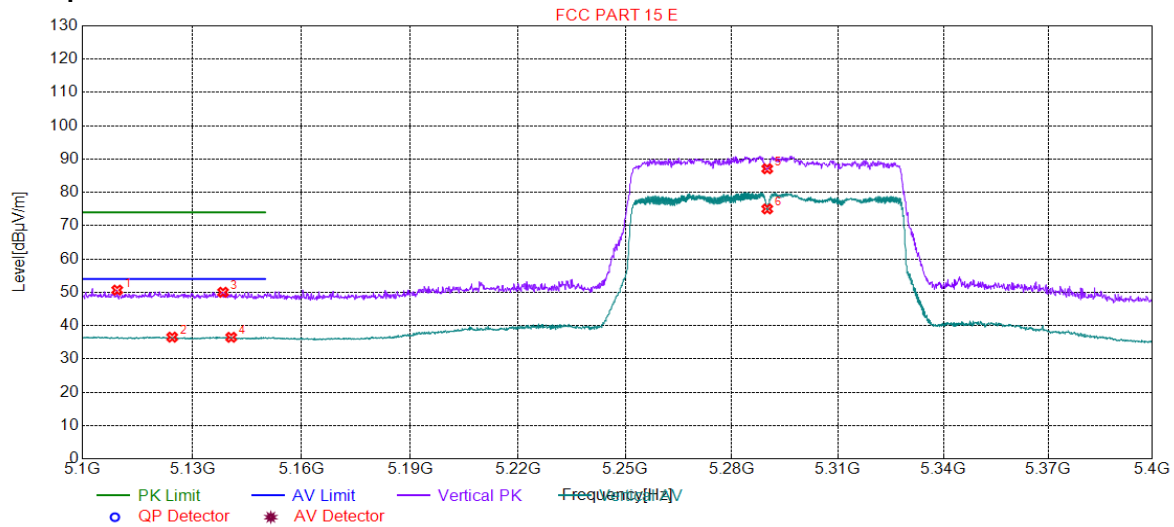
Final Data List

Final Data List							
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4.10.1.86

802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5109.454	50.69	74.00	23.31	308	1	Vertical
2	5124.462	36.56	54.00	17.44	355	130	Vertical
3	5138.419	50.03	74.00	23.97	332	252	Vertical
4	5140.670	36.52	54.00	17.48	242	344	Vertical
5	5290.000	87.10	0.00	-87.10	343	145	Vertical
6	5290.000	75.04	0.00	-75.04	355	140	Vertical

Final Data List



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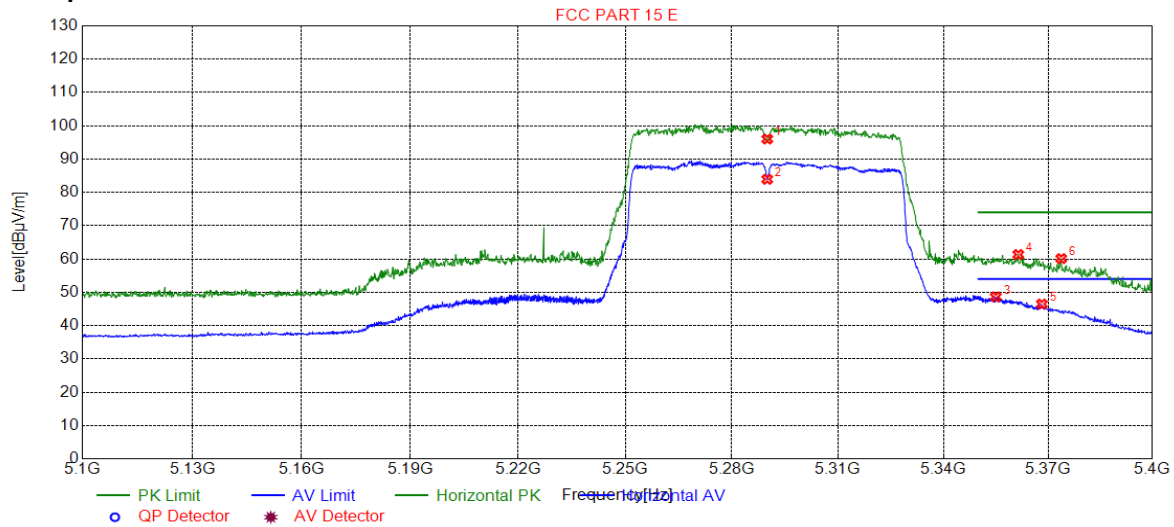
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4.10.1.87 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	96.03	0.00	-96.03	147	234	Horizontal
2	5290.000	83.93	0.00	-83.93	129	230	Horizontal
3	5354.977	48.66	54.00	5.34	144	230	Horizontal
4	5361.430	61.35	74.00	12.65	115	234	Horizontal
5	5368.184	46.50	54.00	7.50	383	230	Horizontal
6	5373.736	60.14	74.00	13.86	192	234	Horizontal

Final Data List

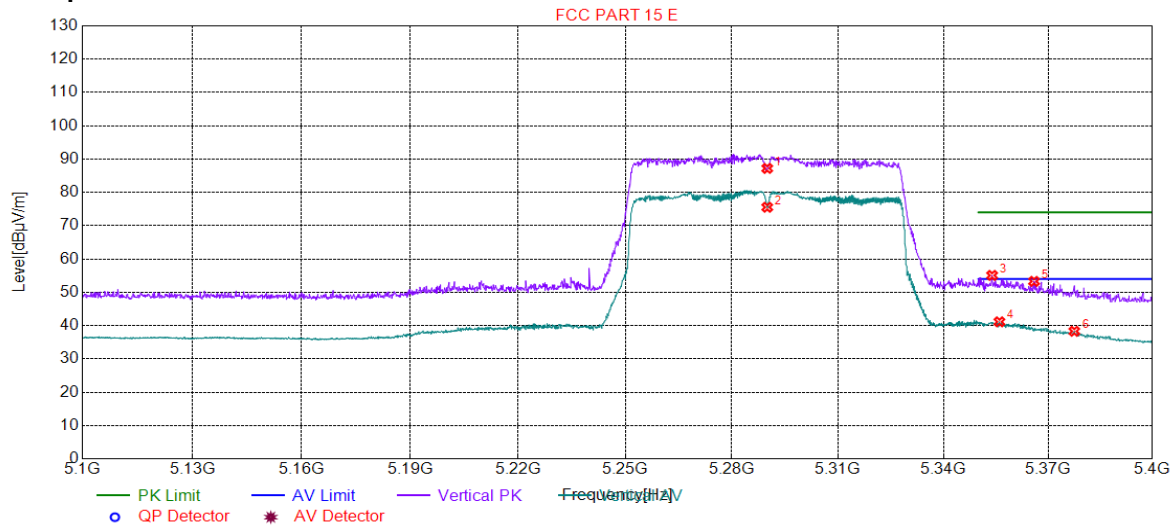


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4.10.1.88 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	87.21	0.00	-87.21	102	139	Vertical
2	5290.000	75.54	0.00	-75.54	271	139	Vertical
3	5353.927	55.09	74.00	18.91	132	144	Vertical
4	5356.028	41.16	54.00	12.84	104	252	Vertical
5	5365.933	53.30	74.00	20.70	237	246	Vertical
6	5377.488	38.32	54.00	15.68	319	149	Vertical

Final Data List

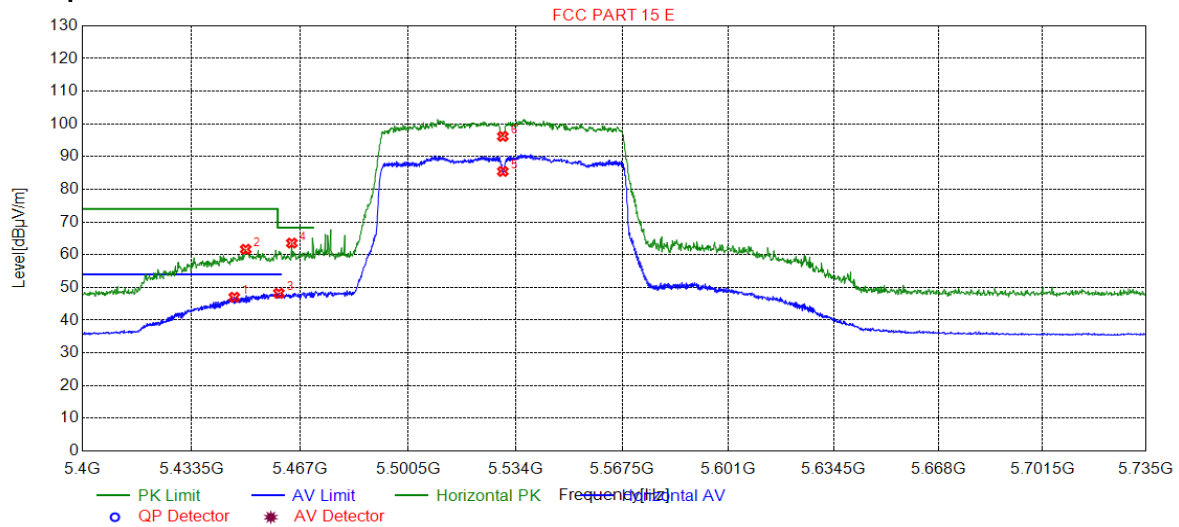


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4.10.1.89 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.588	47.03	54.00	6.97	194	221	Horizontal
2	5450.107	61.68	74.00	12.32	274	221	Horizontal
3	5460.330	48.22	54.00	5.78	315	221	Horizontal
4	5464.352	63.57	68.30	4.73	379	221	Horizontal
5	5530.000	85.48	0.00	-85.48	230	216	Horizontal
6	5530.000	96.19	0.00	-96.19	116	226	Horizontal

Final Data List

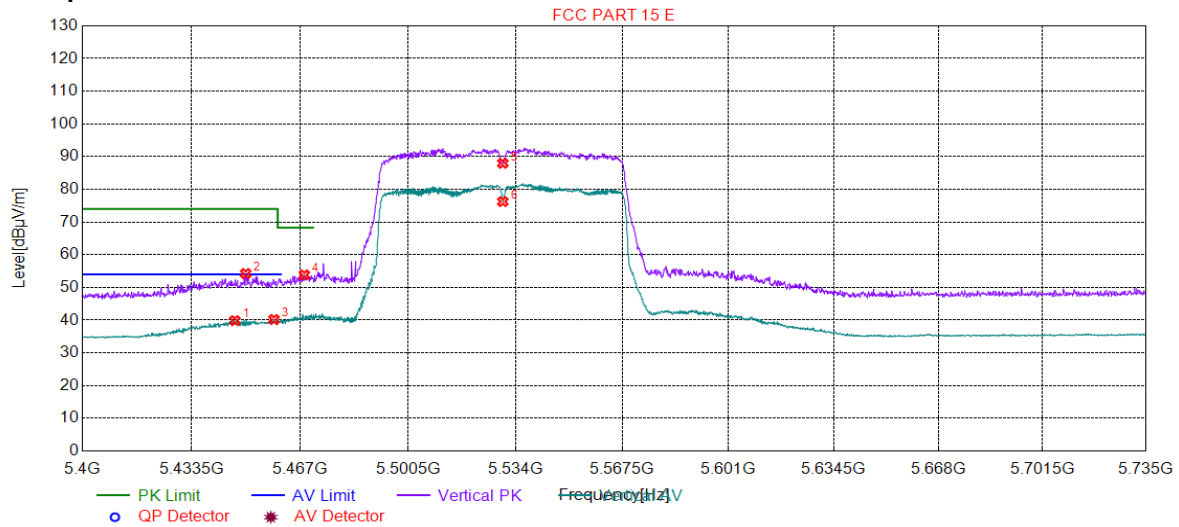


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4.10.1.90 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.755	39.87	54.00	14.13	303	247	Vertical
2	5450.107	54.27	74.00	19.73	217	134	Vertical
3	5458.821	40.22	54.00	13.78	247	247	Vertical
4	5468.206	53.87	68.30	14.43	164	247	Vertical
5	5530.000	87.97	0.00	-87.97	370	134	Vertical
6	5530.000	76.26	0.00	-76.26	392	3	Vertical

Final Data List



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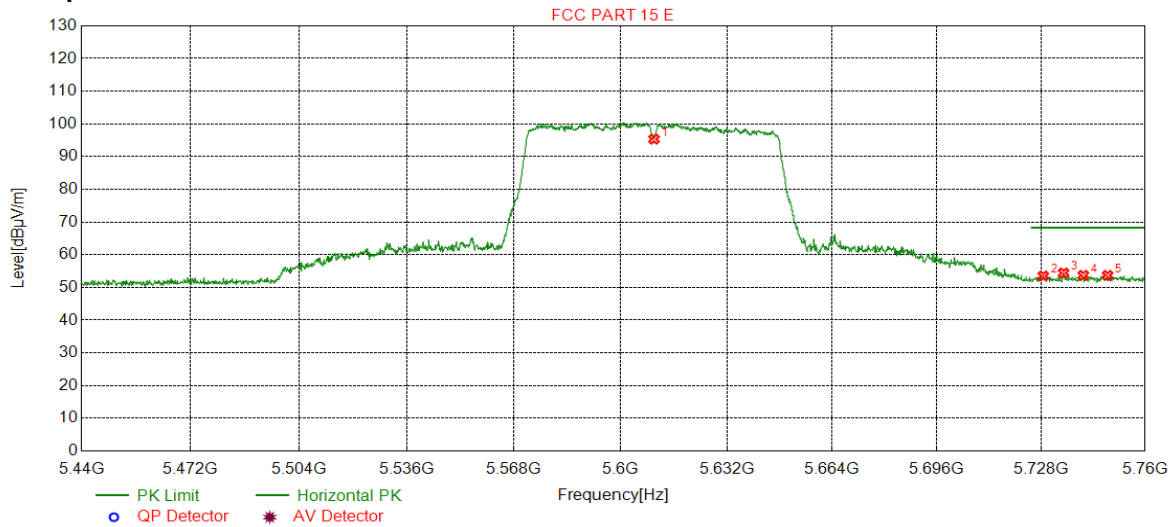
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4.10.1.91 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	95.35	0.00	-95.35	259	230	Horizontal
2	5728.624	53.52	68.30	14.78	333	55	Horizontal
3	5734.867	54.45	68.30	13.85	111	94	Horizontal
4	5740.950	53.72	68.30	14.58	233	16	Horizontal
5	5748.474	53.70	68.30	14.60	281	338	Horizontal

Final Data List

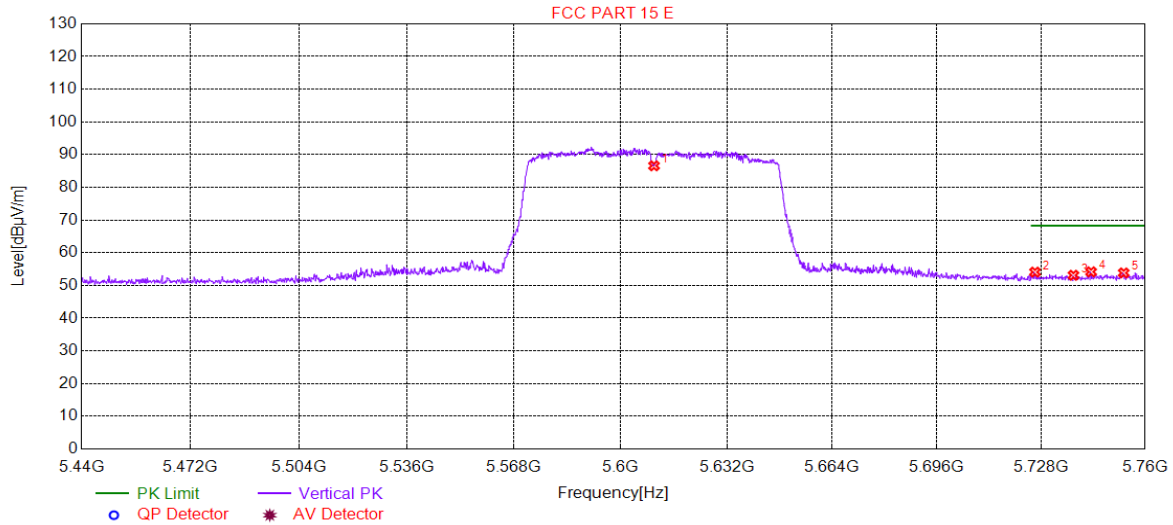


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4.10.1.92 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	86.59	0.00	-86.59	275	211	Vertical
2	5726.063	54.10	68.30	14.20	306	326	Vertical
3	5737.909	53.13	68.30	15.17	154	0	Vertical
4	5743.351	54.18	68.30	14.12	381	284	Vertical
5	5753.436	53.84	68.30	14.46	282	107	Vertical

Final Data List



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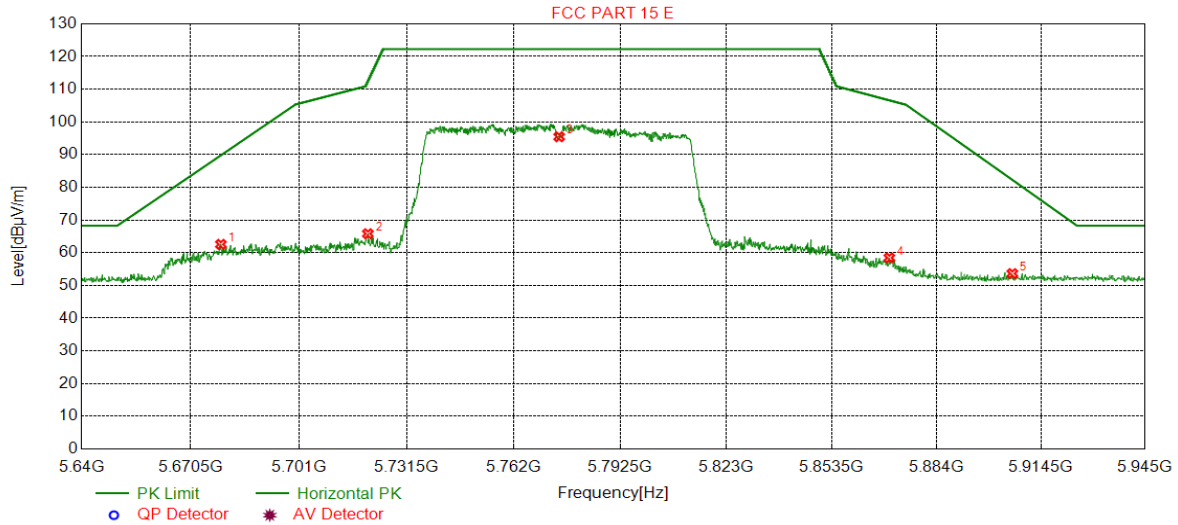
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4.10.1.93 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5679.059	62.59	89.80	27.21	234	221	Horizontal
2	5720.560	65.83	112.18	46.35	172	225	Horizontal
3	5775.000	95.47	122.30	26.83	335	225	Horizontal
4	5870.237	58.46	106.63	48.17	234	221	Horizontal
5	5906.093	53.64	82.29	28.65	324	142	Horizontal

Final Data List

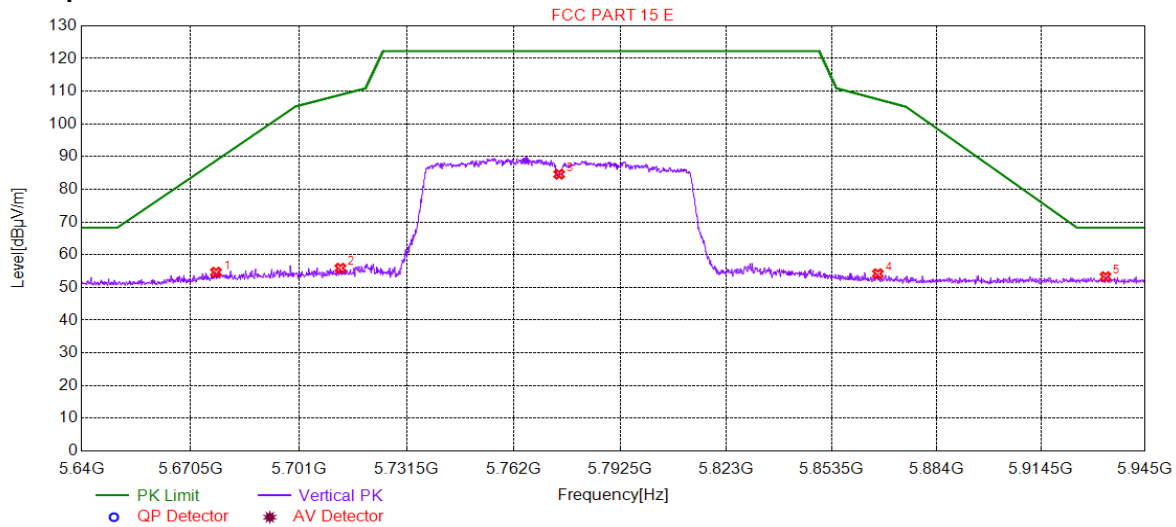
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4.10.1.94 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5677.686	54.67	88.79	34.12	187	20	Vertical
2	5712.778	55.91	108.88	52.97	159	204	Vertical
3	5775.000	84.63	122.30	37.67	174	208	Vertical
4	5866.880	54.22	107.57	53.35	218	204	Vertical
5	5933.404	53.31	68.30	14.99	276	110	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)	5180.004799	5825.009473
V max(V)	5180.012786	5825.012520
V min(V)	5180.014745	5825.013545
Max. Deviation Frequency	0.014745	0.013545
Max. Frequency Error (ppm)	2.846545	2.325386

4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency (MHz)	
	5180	5825
-5	5180.003709	5825.004766
5	5180.008301	5825.013779
15	5180.012054	5825.023384
25	5180.021106	5825.029616
35	5180.029322	5825.033119
45	5180.029328	5825.037450
50	5180.030085	5825.043233
Max. Deviation Frequency	0.030085	0.043233
Max. Frequency Error (ppm)	5.807876	7.422005



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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
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
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.		

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
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. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

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.
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 move</i> (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.	



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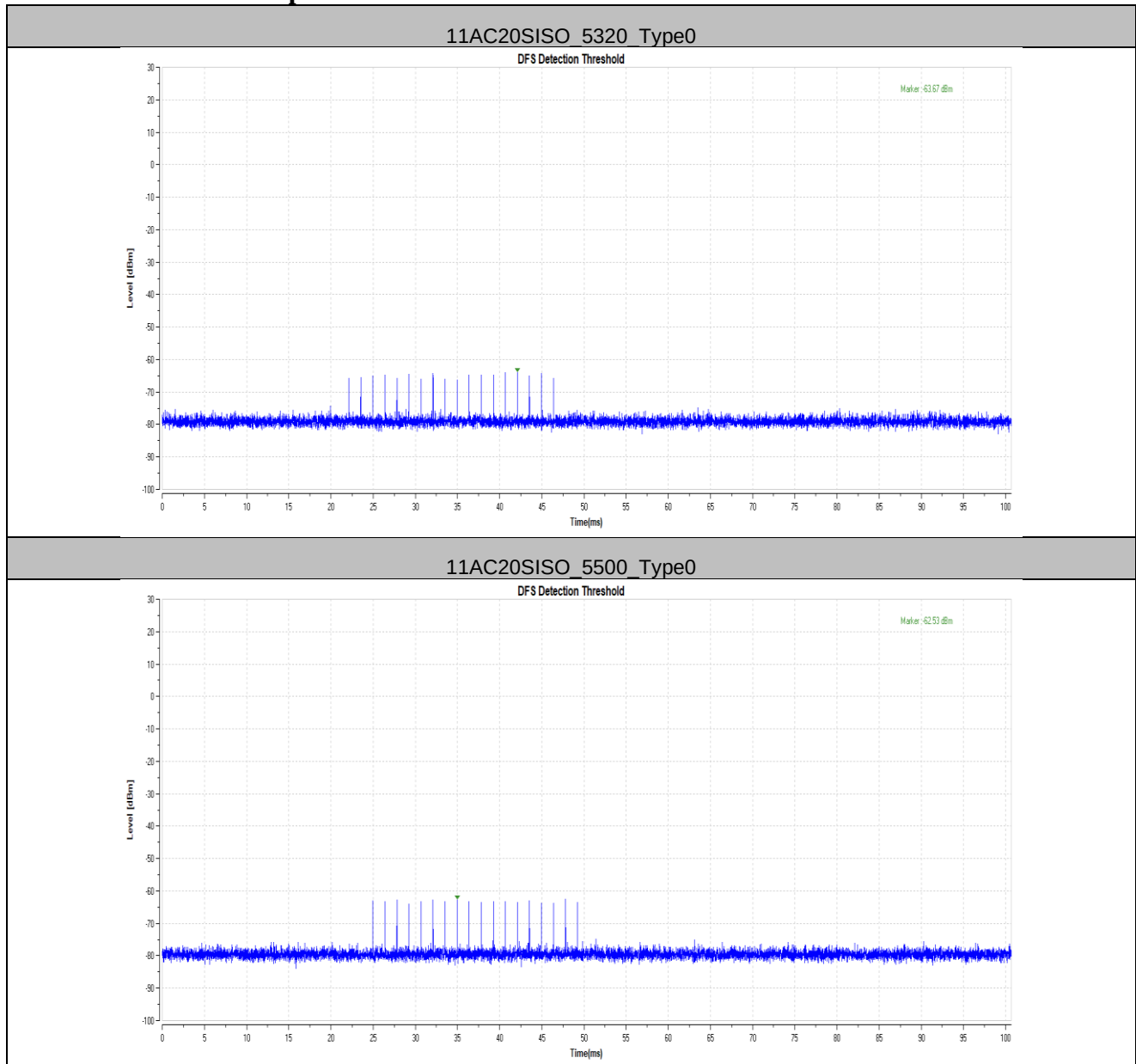
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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	-63.67	-62.00	PASS
	5500	Type0	-62.53	-62.00	PASS
11AC80SISO	5290	Type0	-62.43	-62.00	PASS
	5530	Type0	-62.85	-62.00	PASS



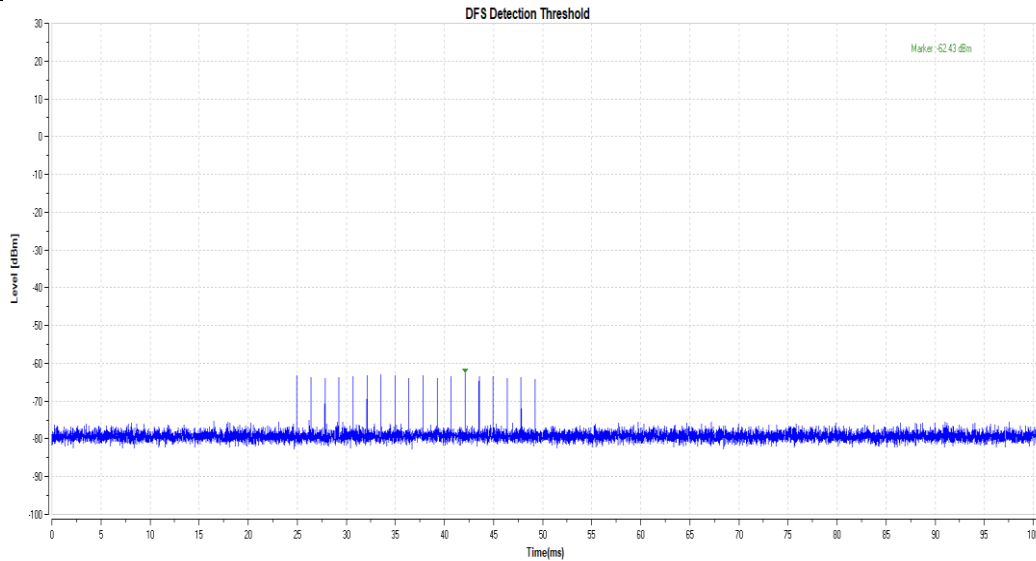
4.12.4.1.2 Test Graphs



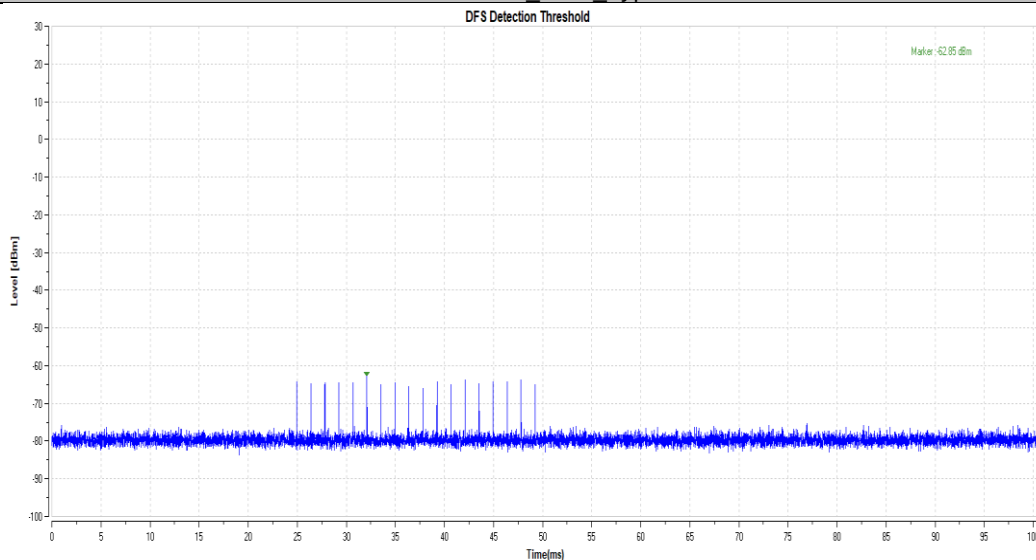
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11AC80SISO 5290 Type0



11AC80SISO 5530 Type0



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4.12.4.2 Channel Move Time and Channel Closing Transmission Time

4.12.4.2.1 Test Result

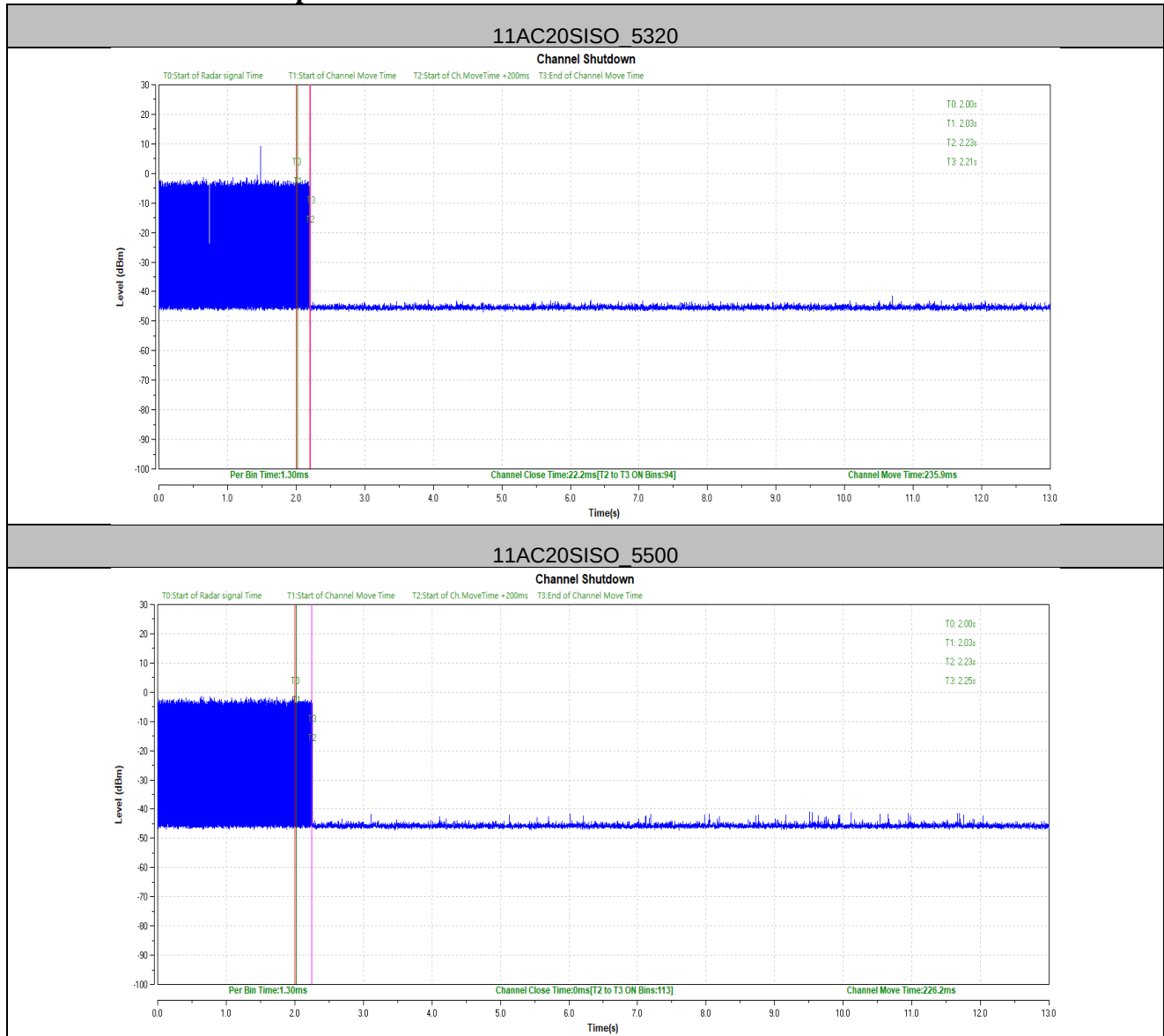
TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	22.2	60	235.9	10000	PASS
	5500	0	60	226.2	10000	PASS
11AC80SISO	5290	52.5	60	245.7	10000	PASS
	5530	0	60	206.7	10000	PASS



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4.12.4.2.2 Test Graphs

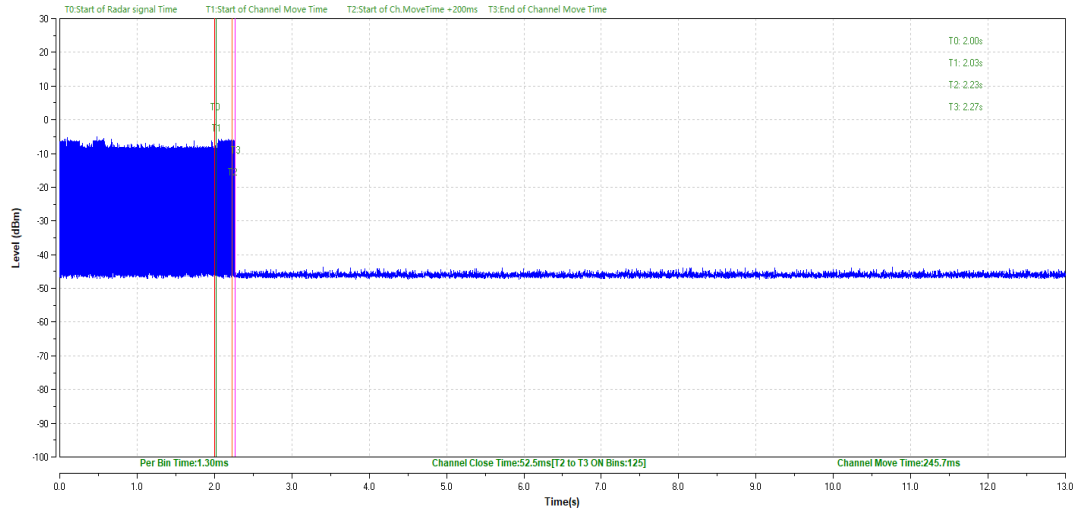


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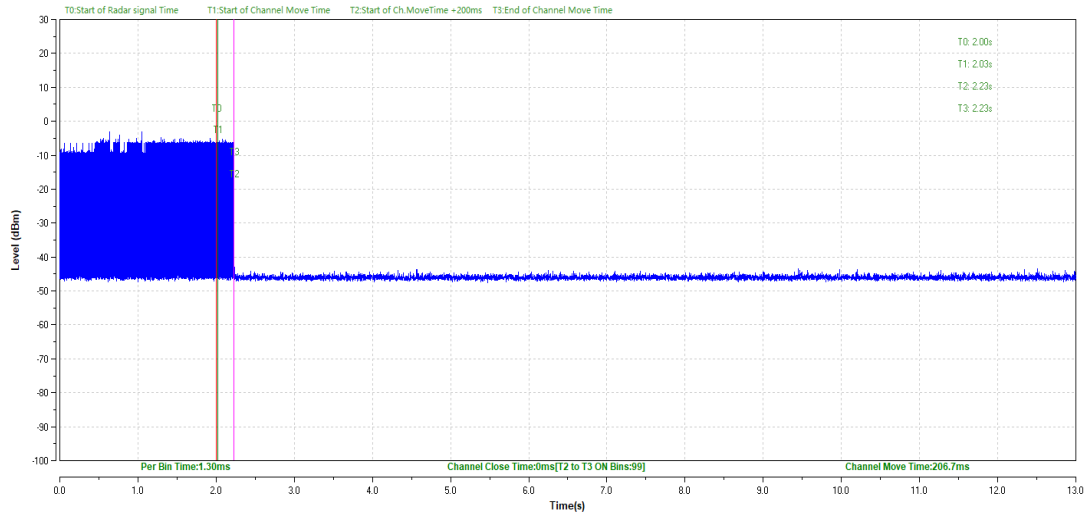
11AC80SISO_5290

Channel Shutdown



11AC80SISO_5530

Channel Shutdown



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4.12.4.3 Non-Occupancy Period

4.12.4.3.1 Test Result

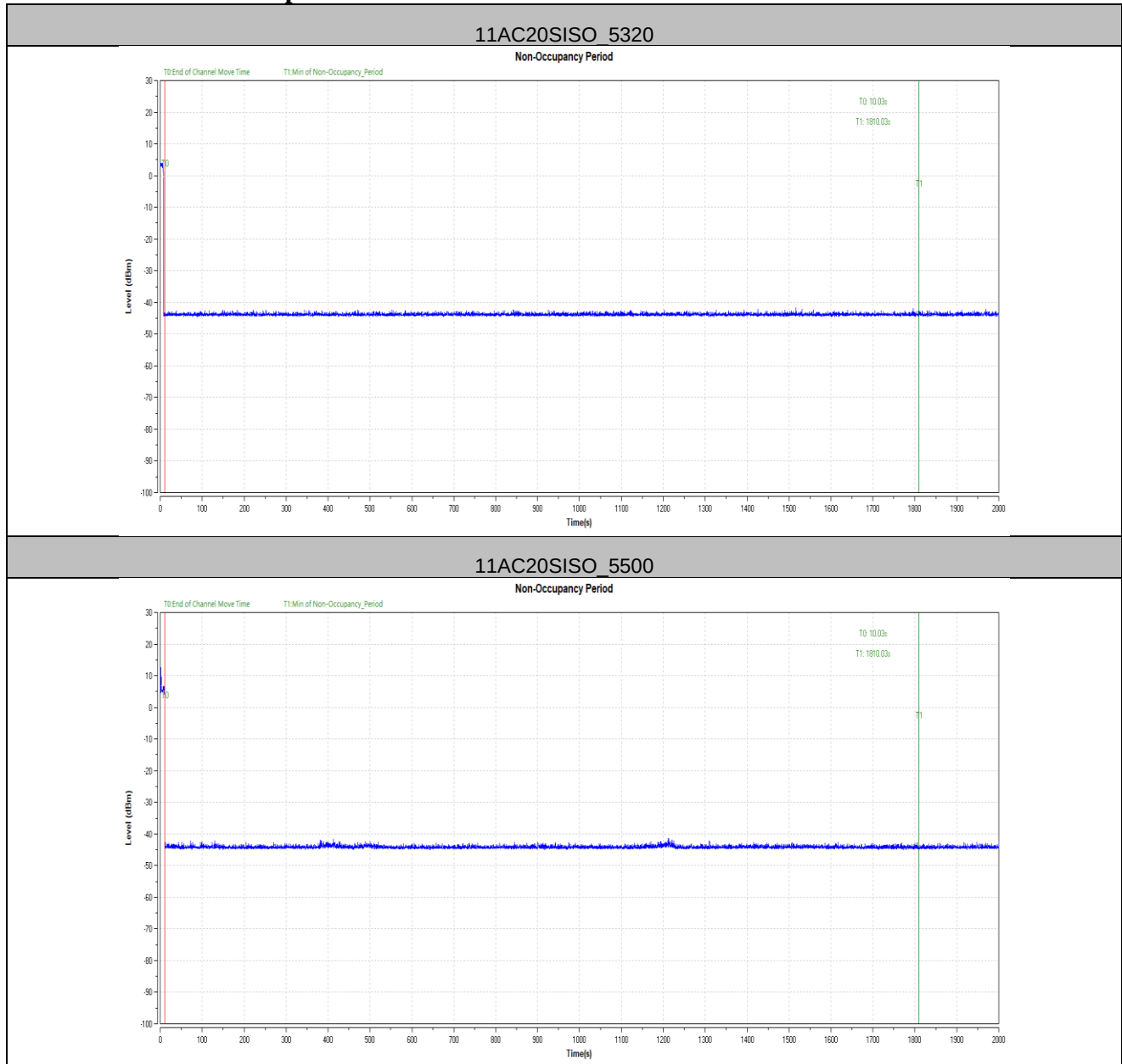
TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS



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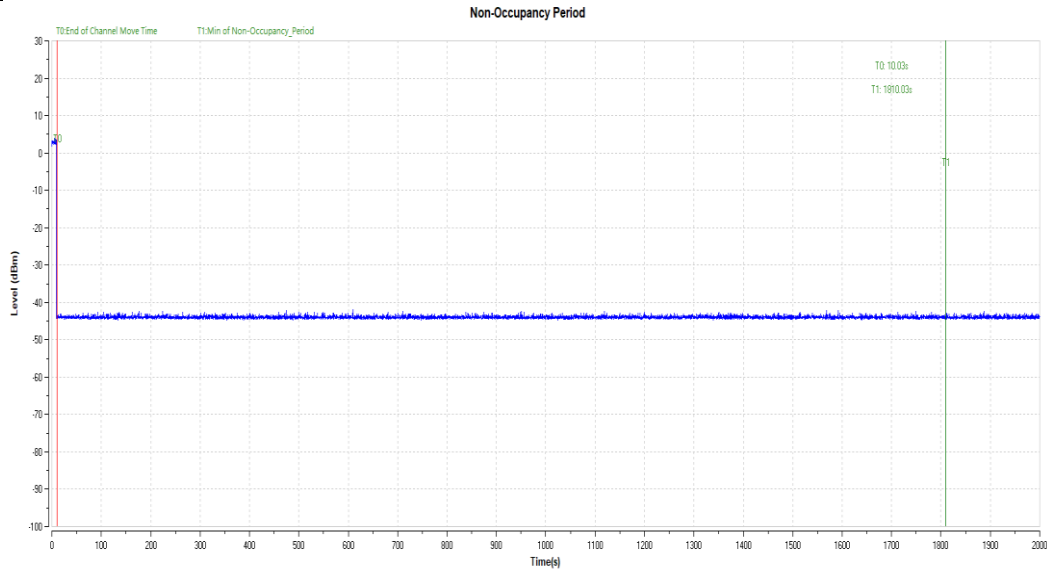
4.12.4.3.2 Test Graphs



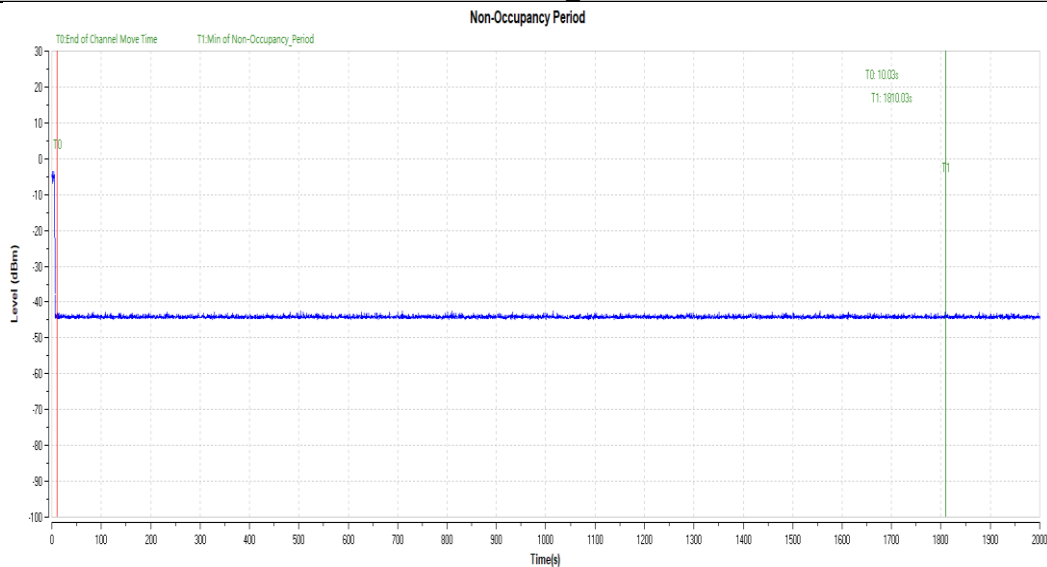
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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.75\text{dB}$
2	RF power density, conducted	$\pm 2.84\text{dB}$
3	Spurious emissions, conducted	$\pm 0.75\text{dB}$
4	Temperature test	$\pm 1^\circ\text{C}$
5	Humidity test	$\pm 3\%$
6	DC and low frequency voltages	$\pm 0.5\%$

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (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



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7 Photographs - EUT Constructional Details

Refer to Appendix A PCE 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	20.310	5169.830	5190.140	---	PASS
		5200	20.340	5189.770	5210.110	---	PASS
		5240	20.190	5229.920	5250.110	---	PASS
		5260	20.310	5249.890	5270.200	---	PASS
		5300	20.310	5289.830	5310.140	---	PASS
		5320	20.280	5309.770	5330.050	---	PASS
		5500	20.520	5489.590	5510.110	---	PASS
		5580	22.230	5569.890	5592.120	---	PASS
		5700	20.220	5689.830	5710.050	---	PASS
		5745	20.790	5734.350	5755.140	---	PASS
		5785	20.520	5774.590	5795.110	---	PASS
		5825	20.310	5814.860	5835.170	---	PASS
11N20SISO	Ant1	5180	20.580	5169.740	5190.320	---	PASS
		5200	20.640	5189.650	5210.290	---	PASS
		5240	20.640	5229.620	5250.260	---	PASS
		5260	20.550	5249.740	5270.290	---	PASS
		5300	20.580	5289.710	5310.290	---	PASS
		5320	20.610	5309.650	5330.260	---	PASS
		5500	20.550	5489.680	5510.230	---	PASS
		5580	20.610	5569.680	5590.290	---	PASS
		5700	20.580	5689.710	5710.290	---	PASS
		5745	20.760	5734.590	5755.350	---	PASS
		5785	20.910	5774.710	5795.620	---	PASS
		5825	20.640	5814.680	5835.320	---	PASS
11N40SISO	Ant1	5190	41.040	5169.540	5210.580	---	PASS
		5230	41.340	5209.300	5250.640	---	PASS
		5270	41.220	5249.480	5290.700	---	PASS
		5310	40.800	5289.540	5330.340	---	PASS
		5510	40.920	5489.360	5530.280	---	PASS



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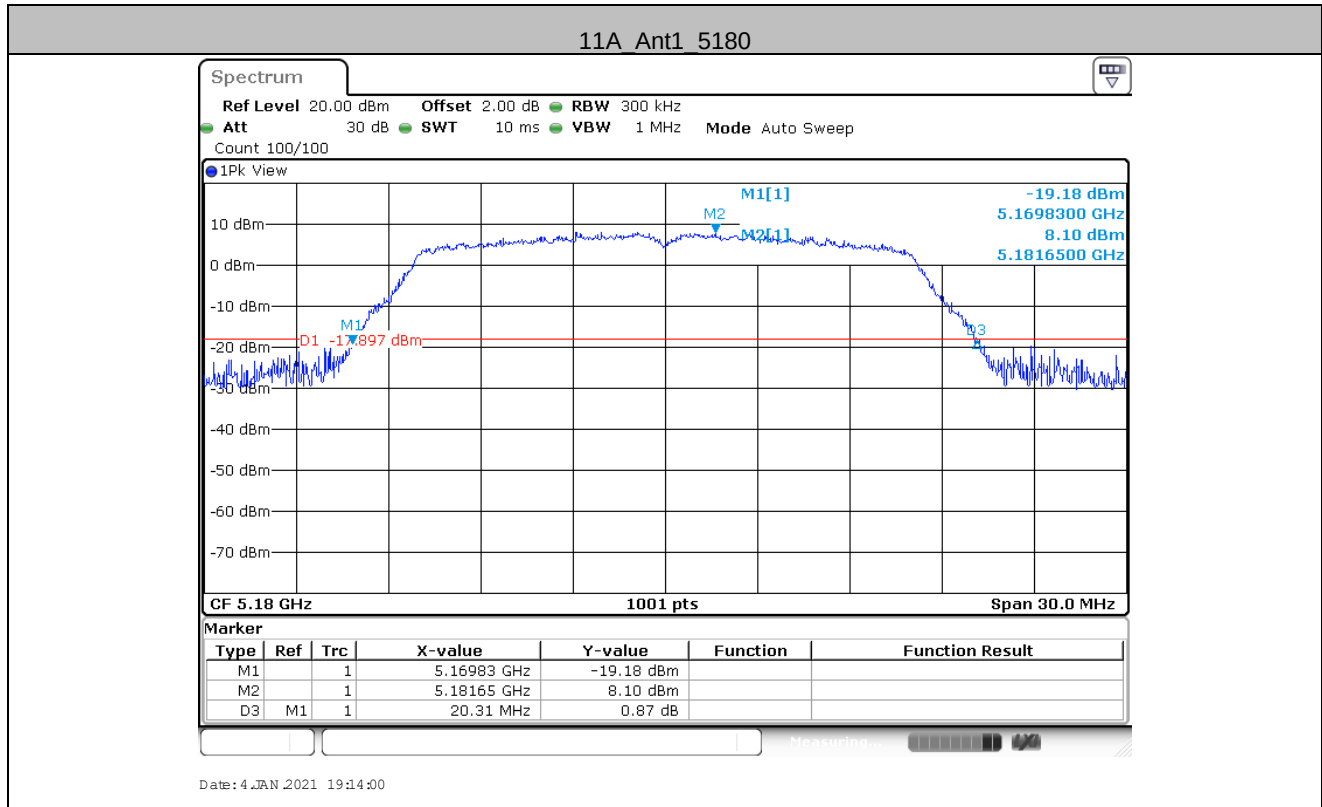
		5550	41.040	5529.480	5570.520	---	PASS
		5670	40.920	5649.540	5690.460	---	PASS
		5755	41.100	5734.420	5775.520	---	PASS
		5795	41.100	5774.420	5815.520	---	PASS
11AC20SISO	Ant1	5180	20.610	5169.650	5190.260	---	PASS
		5200	20.520	5189.740	5210.260	---	PASS
		5240	20.580	5229.770	5250.350	---	PASS
		5260	20.550	5249.710	5270.260	---	PASS
		5300	20.490	5289.770	5310.260	---	PASS
		5320	20.610	5309.680	5330.290	---	PASS
		5500	20.640	5489.680	5510.320	---	PASS
		5580	20.580	5569.710	5590.290	---	PASS
		5700	20.490	5689.710	5710.200	---	PASS
		5745	20.550	5734.650	5755.200	---	PASS
		5785	20.610	5774.680	5795.290	---	PASS
		5825	20.610	5814.710	5835.320	---	PASS
11AC40SISO	Ant1	5190	41.040	5169.420	5210.460	---	PASS
		5230	41.100	5209.420	5250.520	---	PASS
		5270	41.040	5249.600	5290.640	---	PASS
		5310	40.800	5289.540	5330.340	---	PASS
		5510	41.100	5489.360	5530.460	---	PASS
		5550	41.220	5529.360	5570.580	---	PASS
		5670	40.980	5649.480	5690.460	---	PASS
		5755	41.160	5734.300	5775.460	---	PASS
		5795	41.220	5774.360	5815.580	---	PASS
11AC80SISO	Ant1	5210	81.840	5169.080	5250.920	---	PASS
		5290	81.000	5249.440	5330.440	---	PASS
		5530	81.480	5489.080	5570.560	---	PASS
		5610	81.600	5569.200	5650.800	---	PASS
		5775	81.720	5733.960	5815.680	---	PASS



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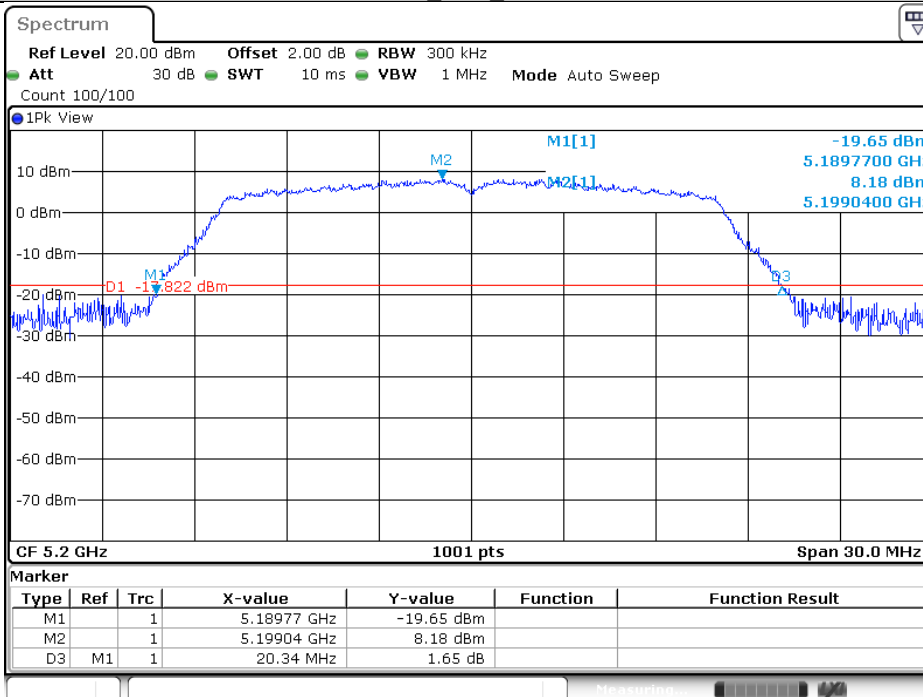
Test Graphs



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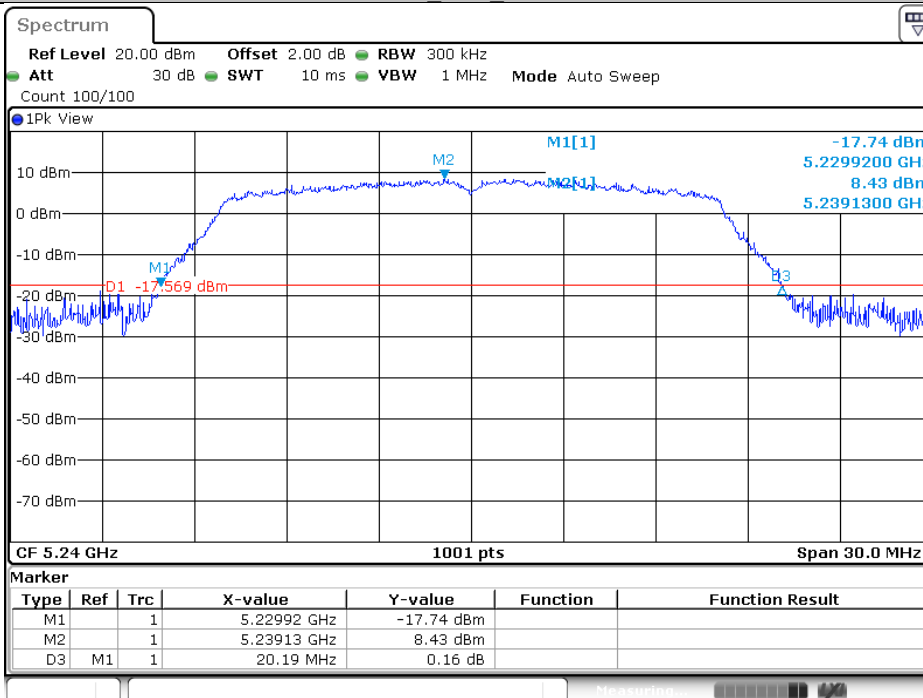
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11A Ant1 5200



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11A Ant1 5240



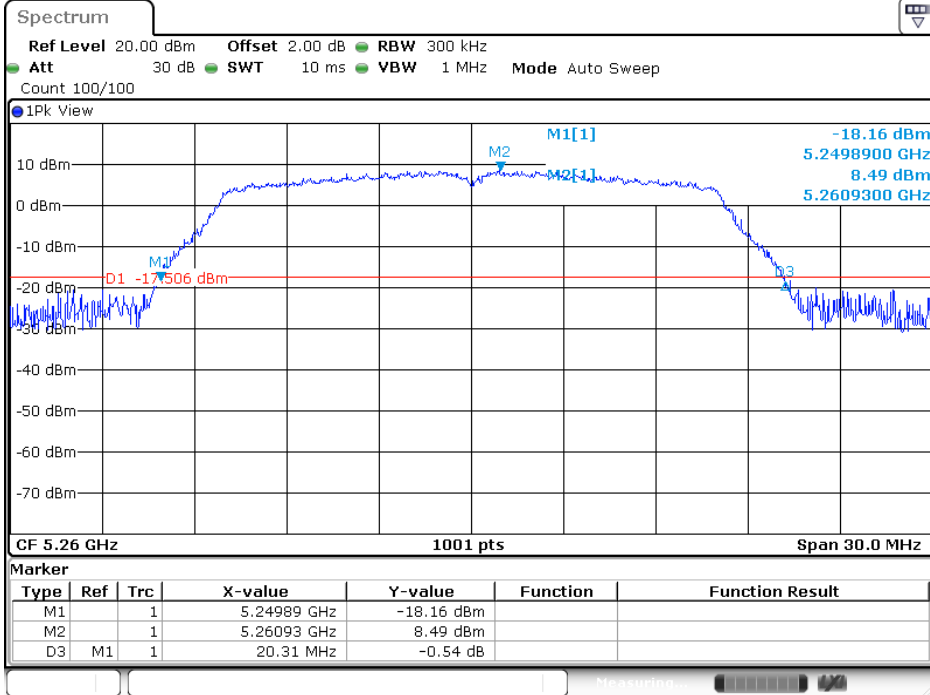
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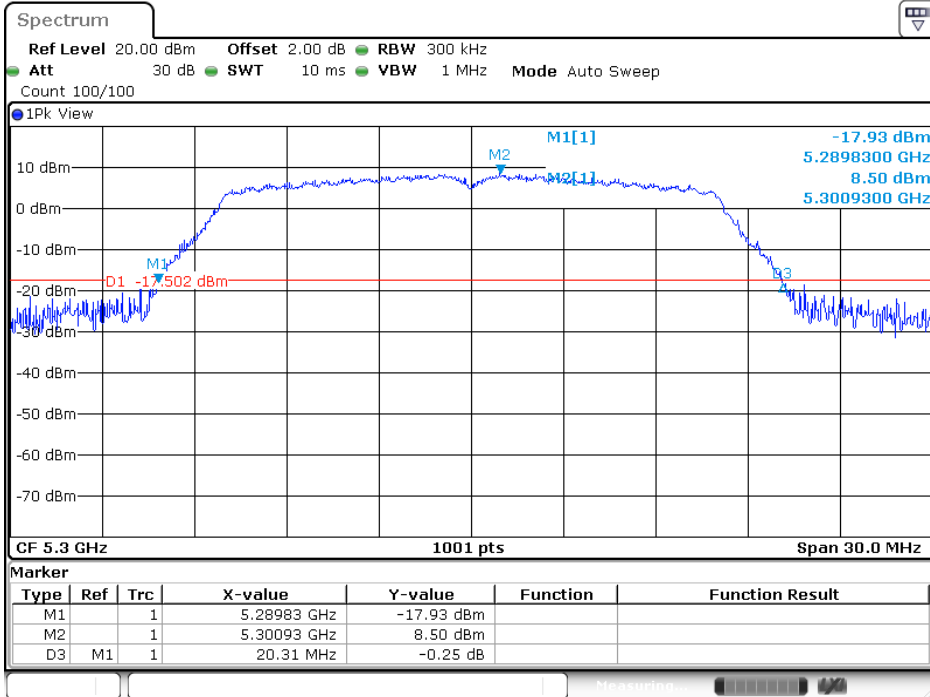
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11A Ant1 5260



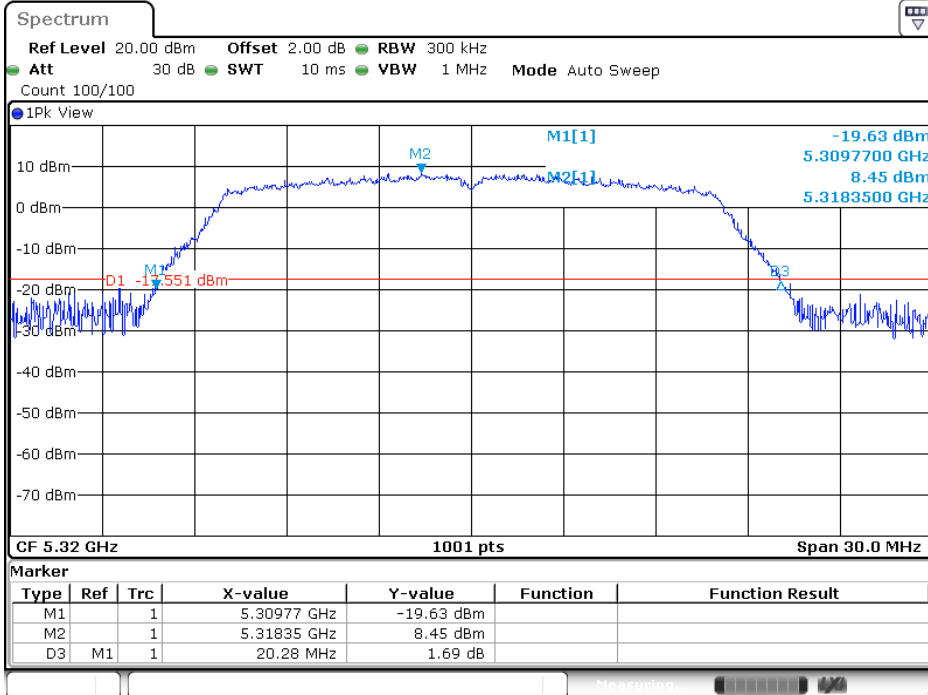
11A Ant1 5300



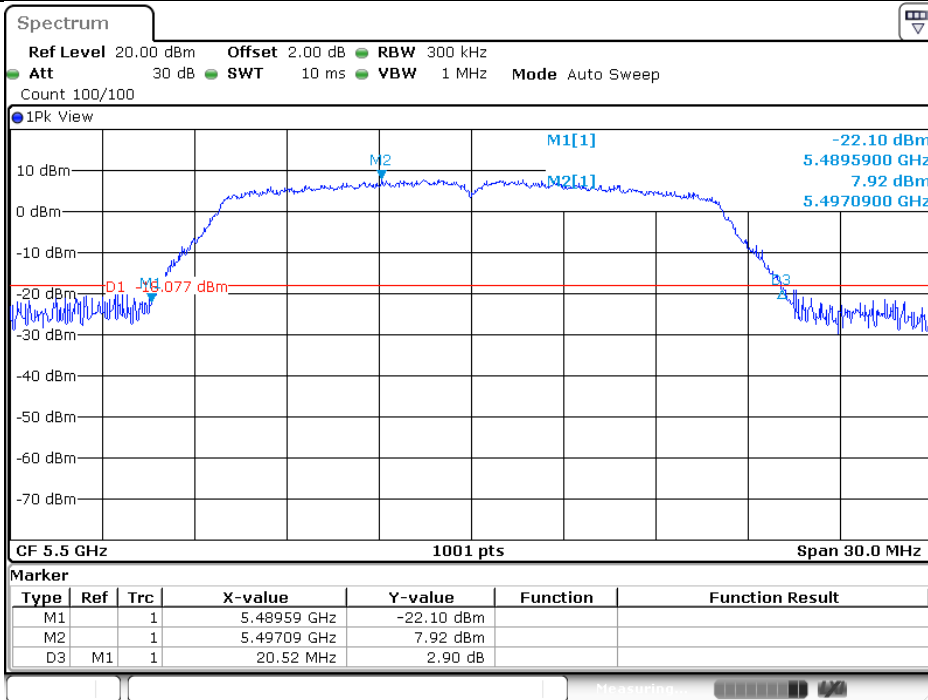
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11A Ant1 5320



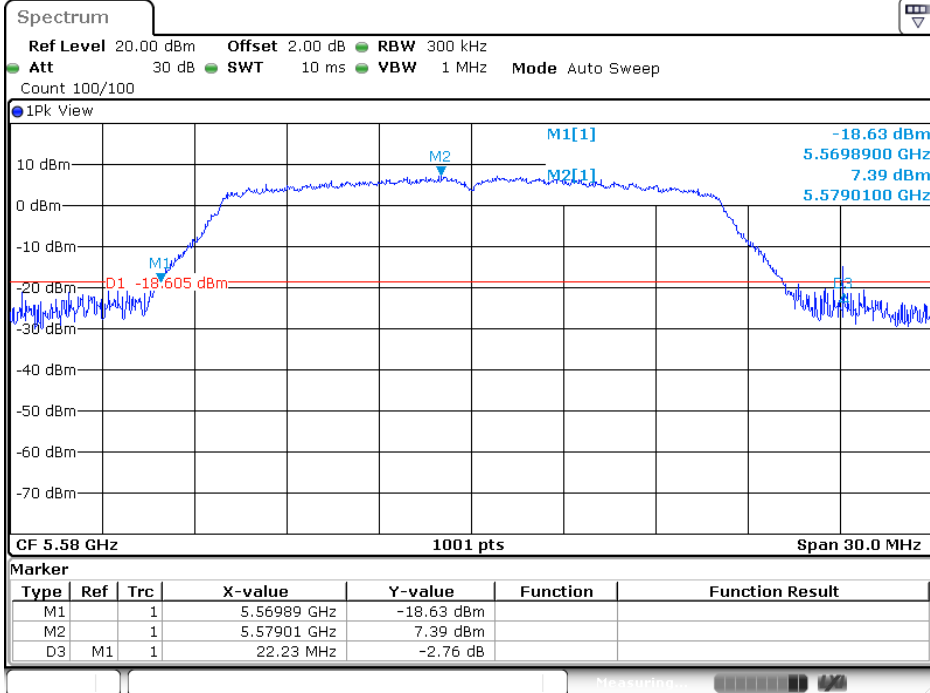
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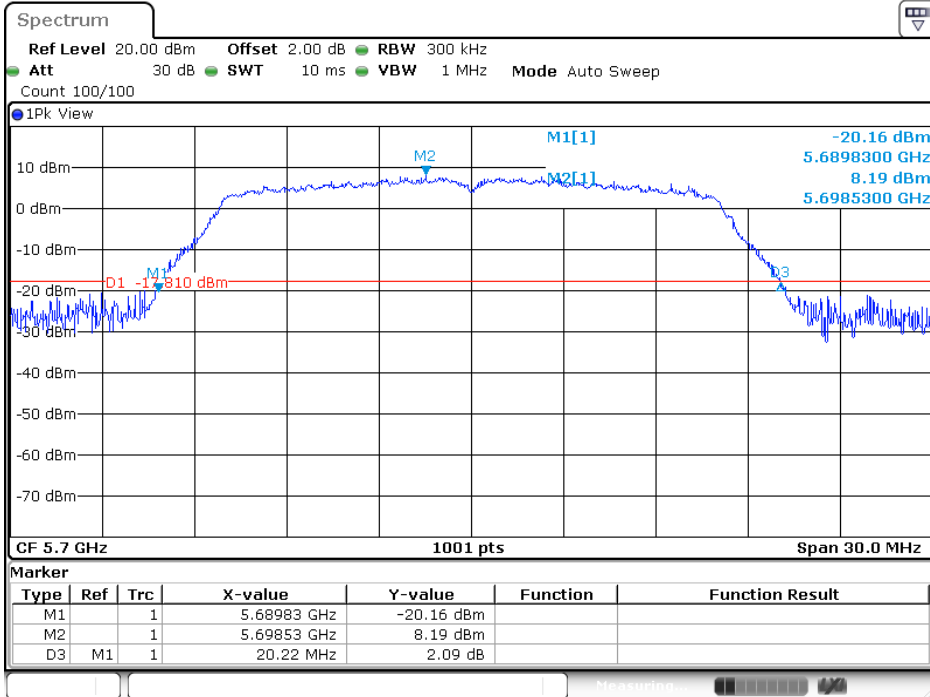
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11A Ant1 5580



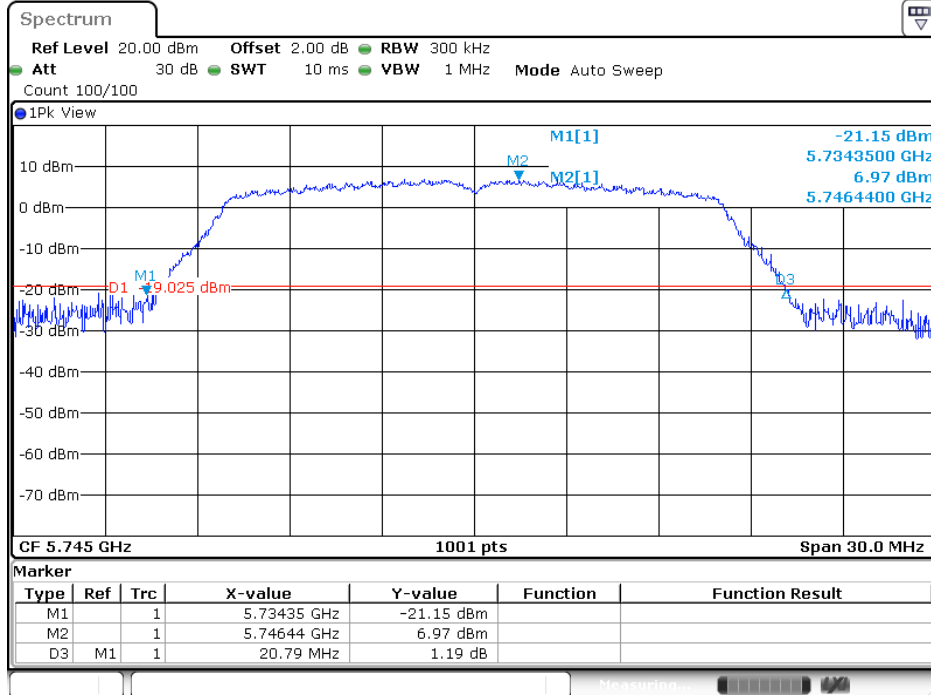
11A Ant1 5700



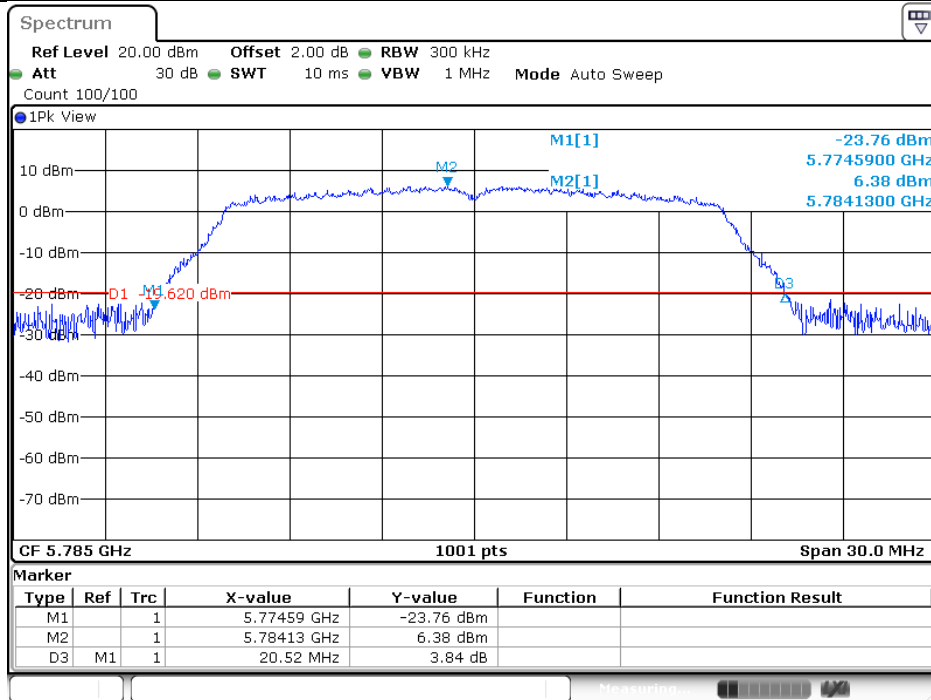
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11A Ant1 5745



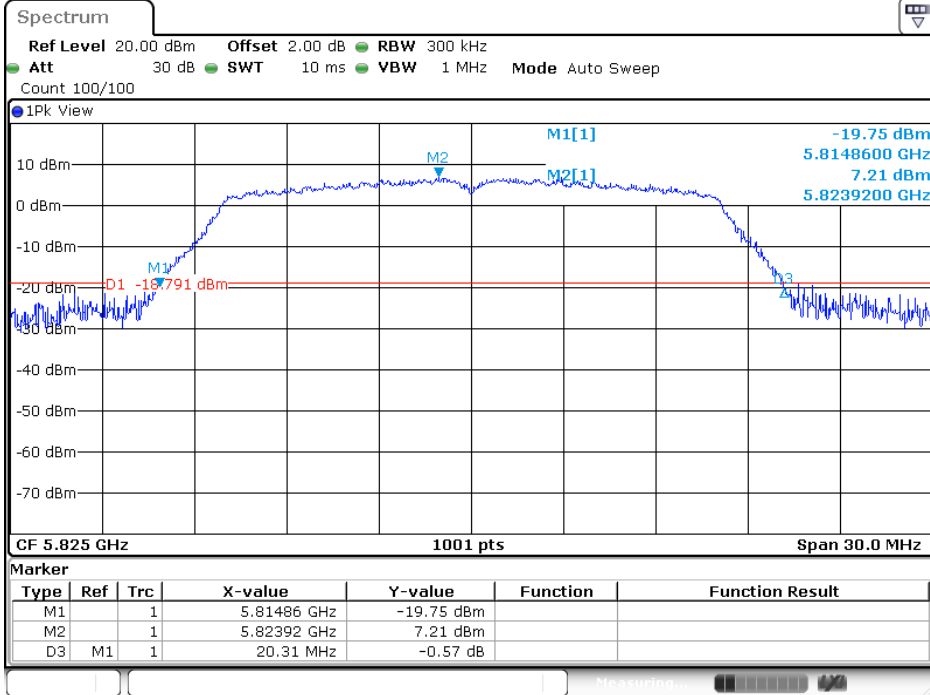
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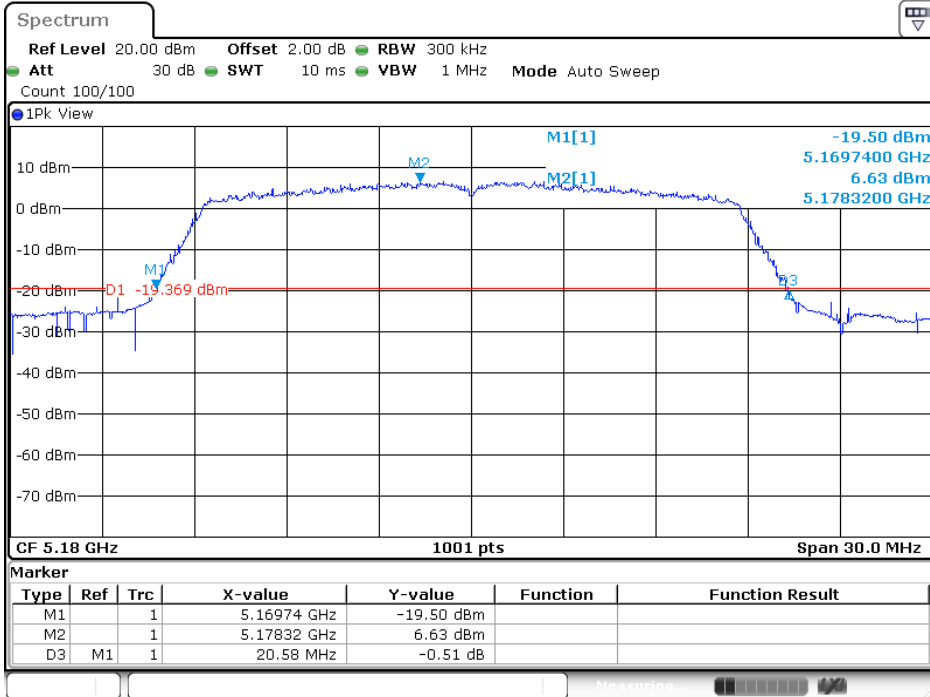
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11A Ant1 5825



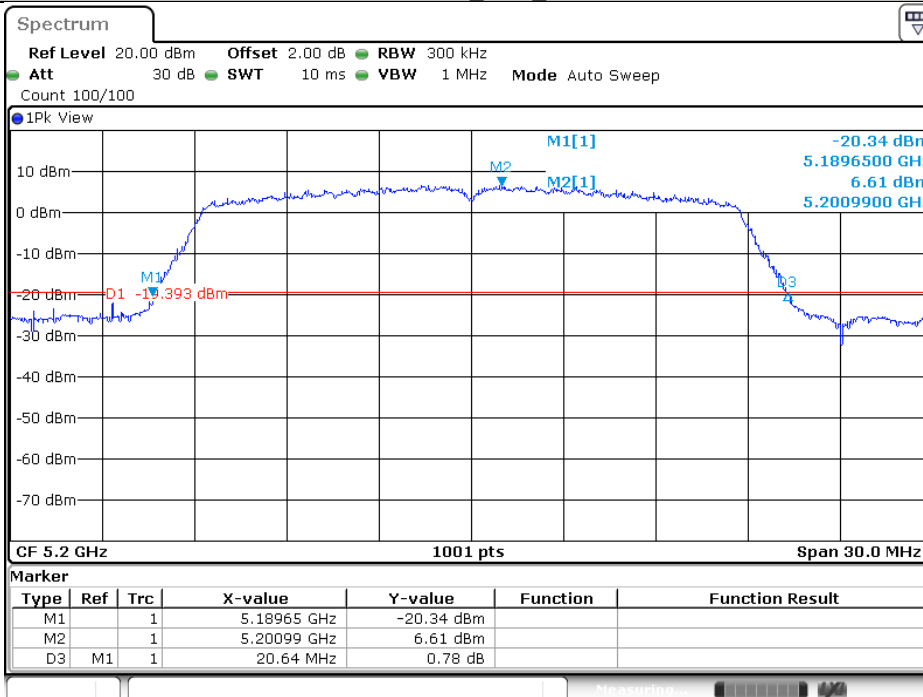
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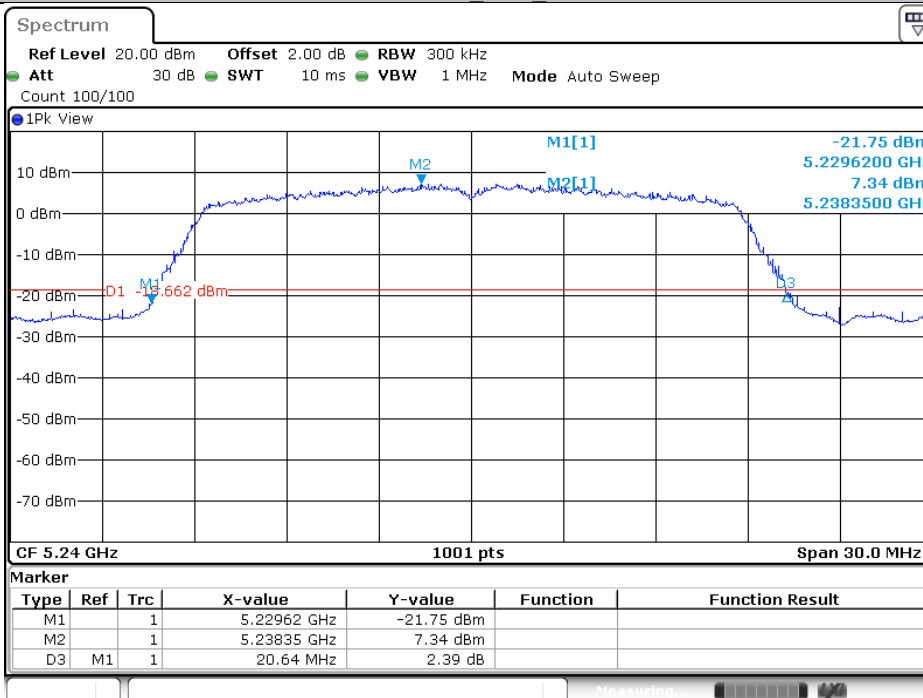
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11N20SISO Ant1 5240



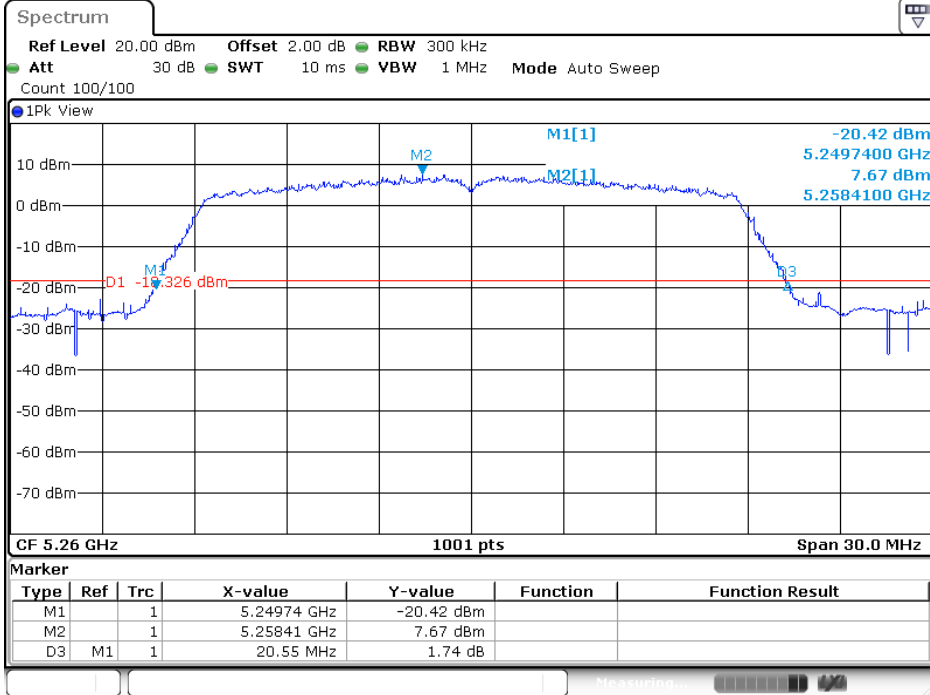
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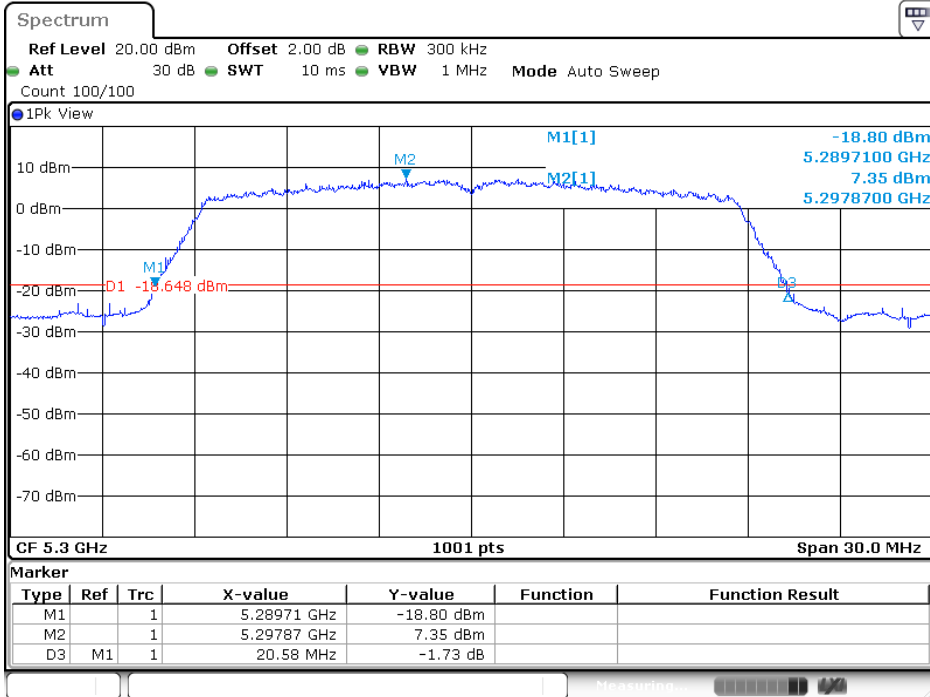
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11N20SISO Ant1 5260



11N20SISO Ant1 5300



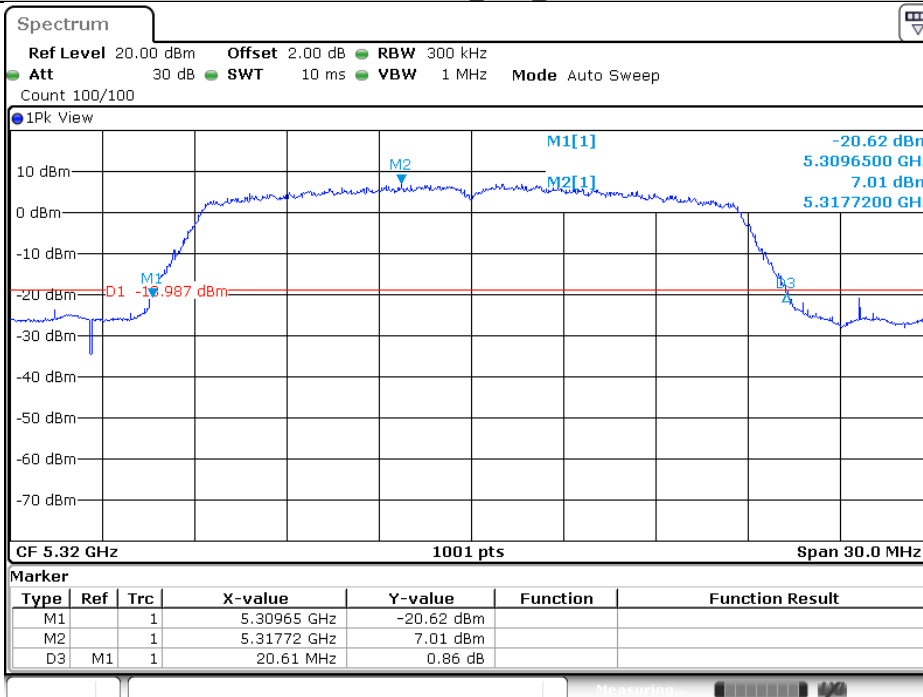
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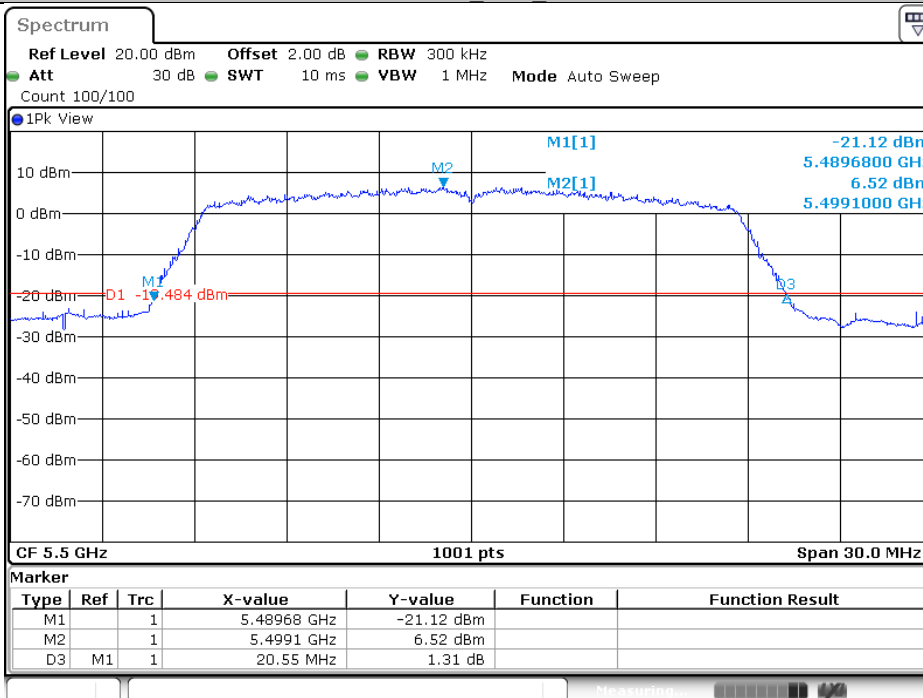
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11N20SISO Ant1 5320



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11N20SISO Ant1 5500



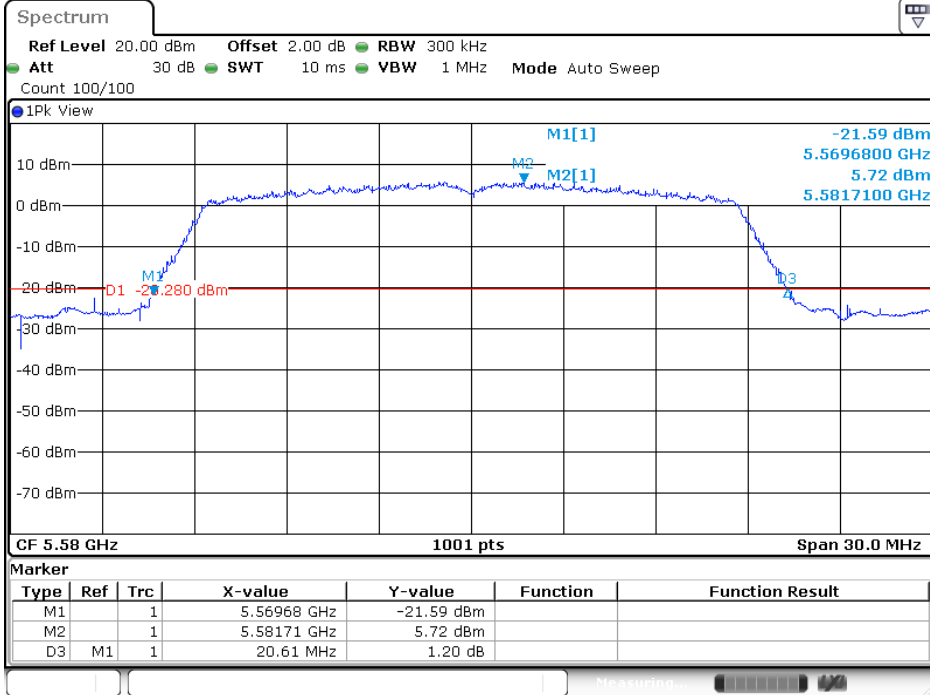
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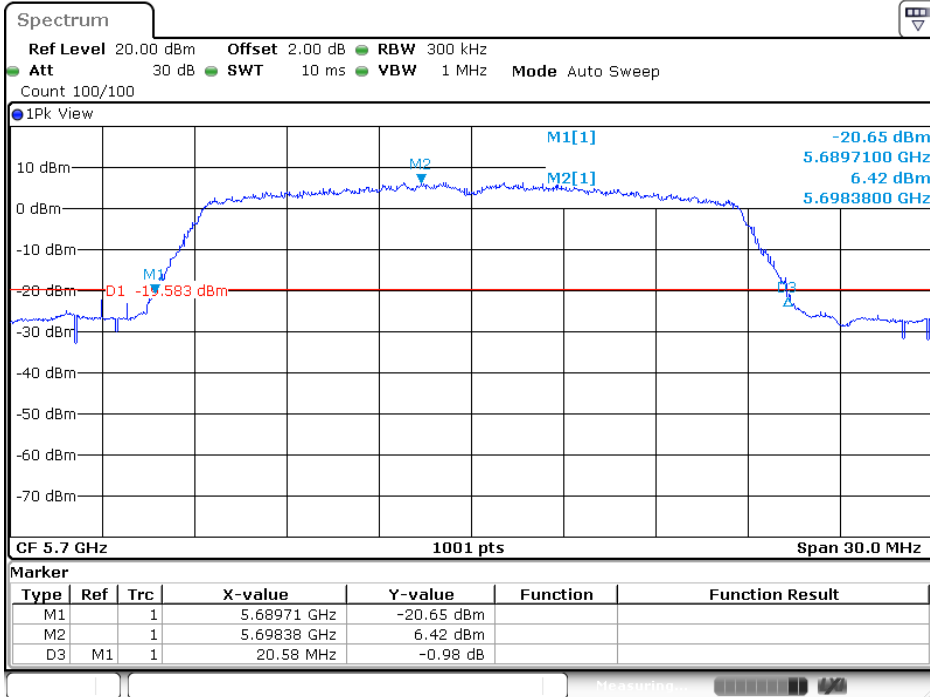
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11N20SISO Ant1 5580



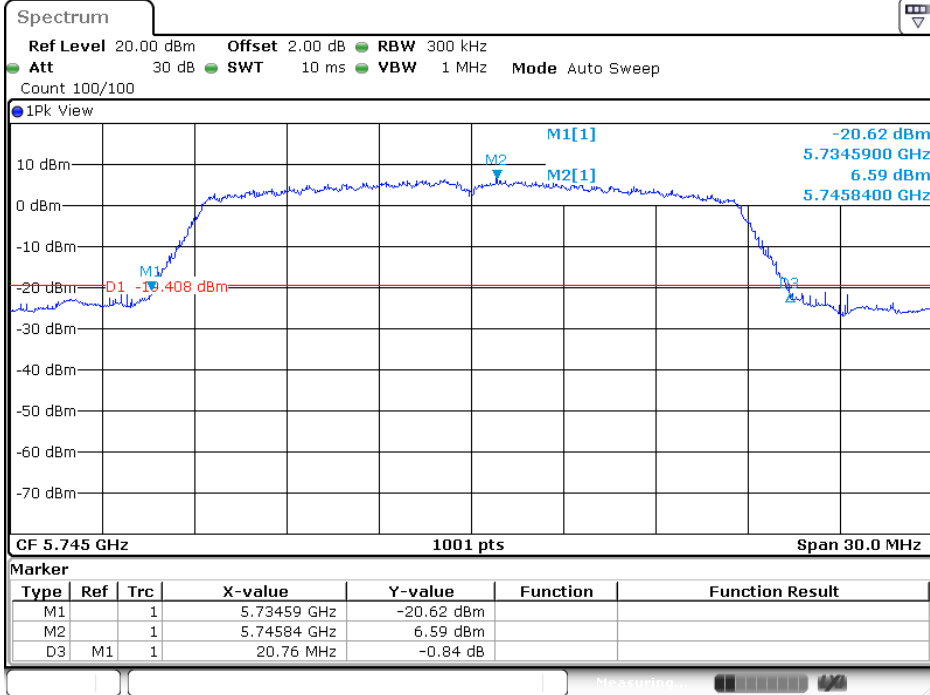
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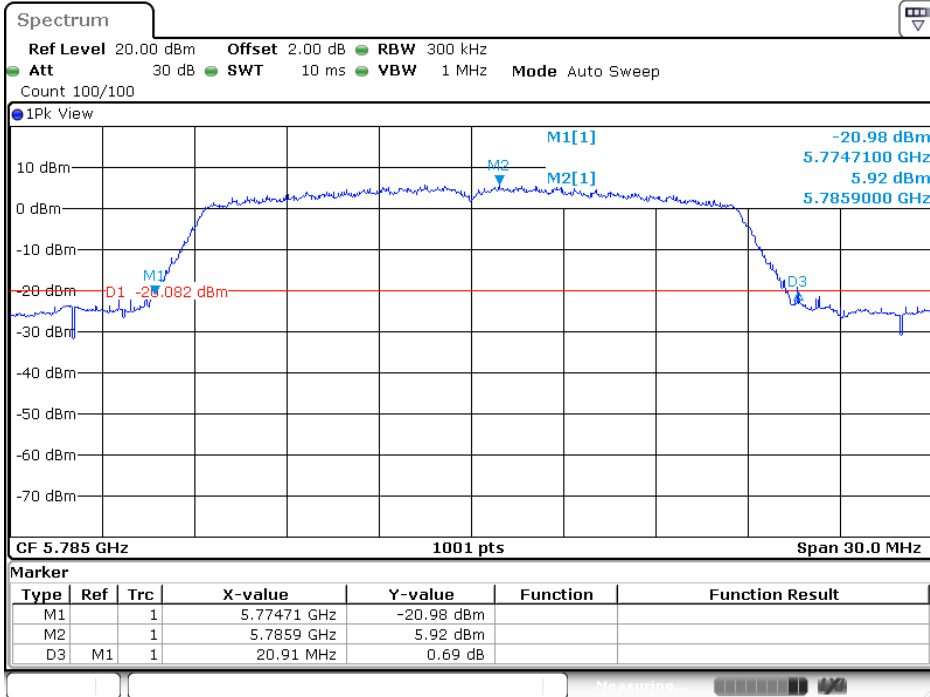
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11N20SISO Ant1 5785



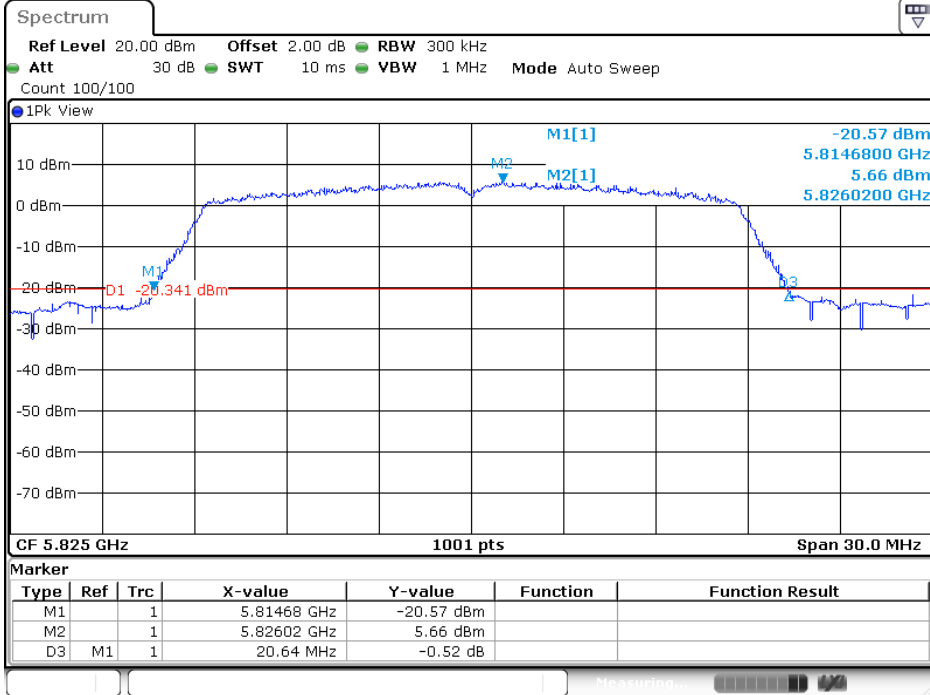
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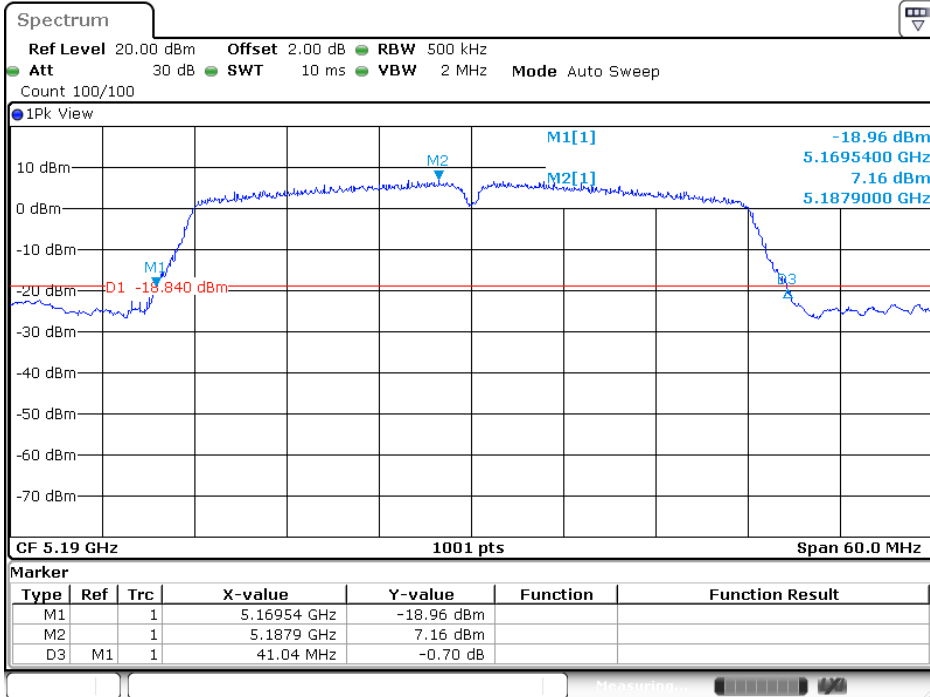
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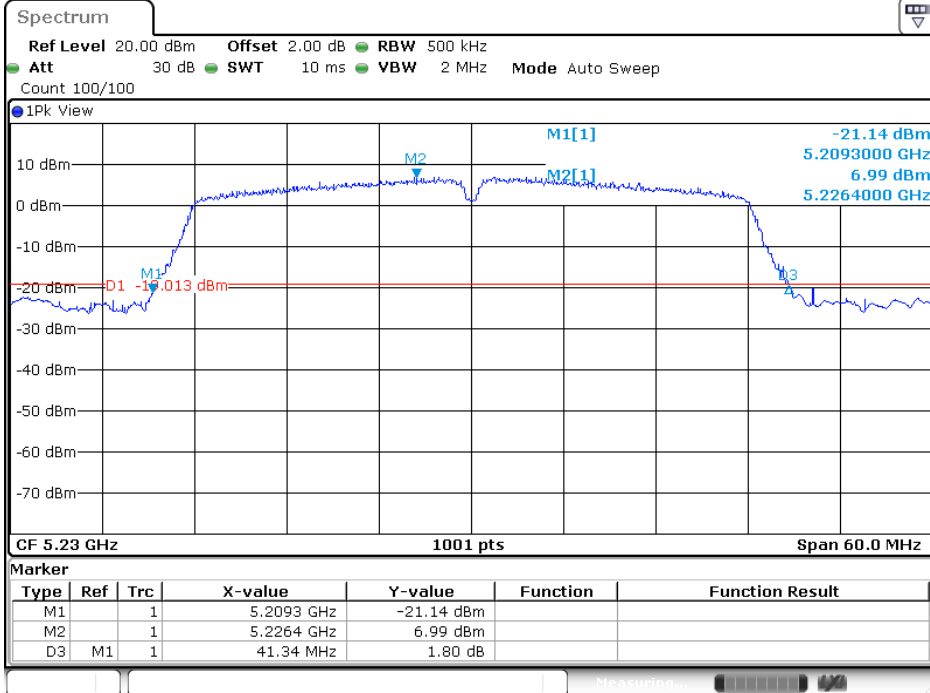
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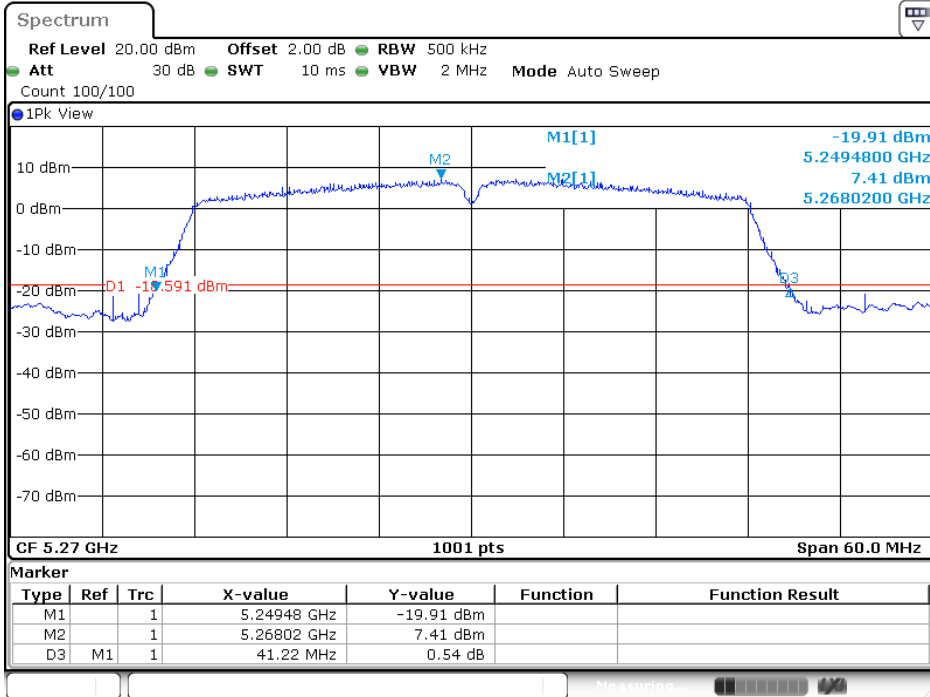
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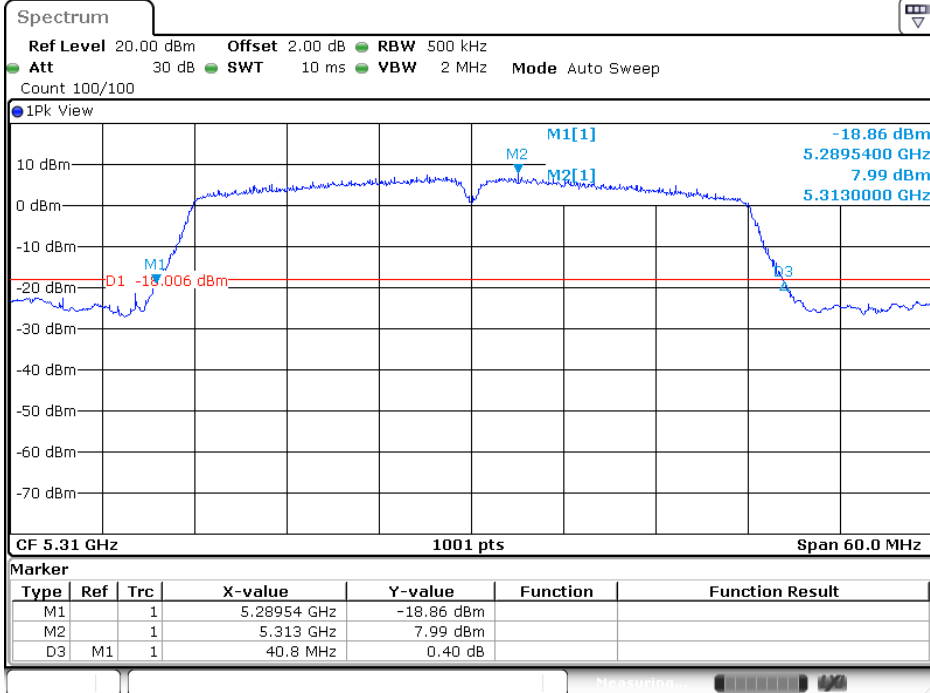
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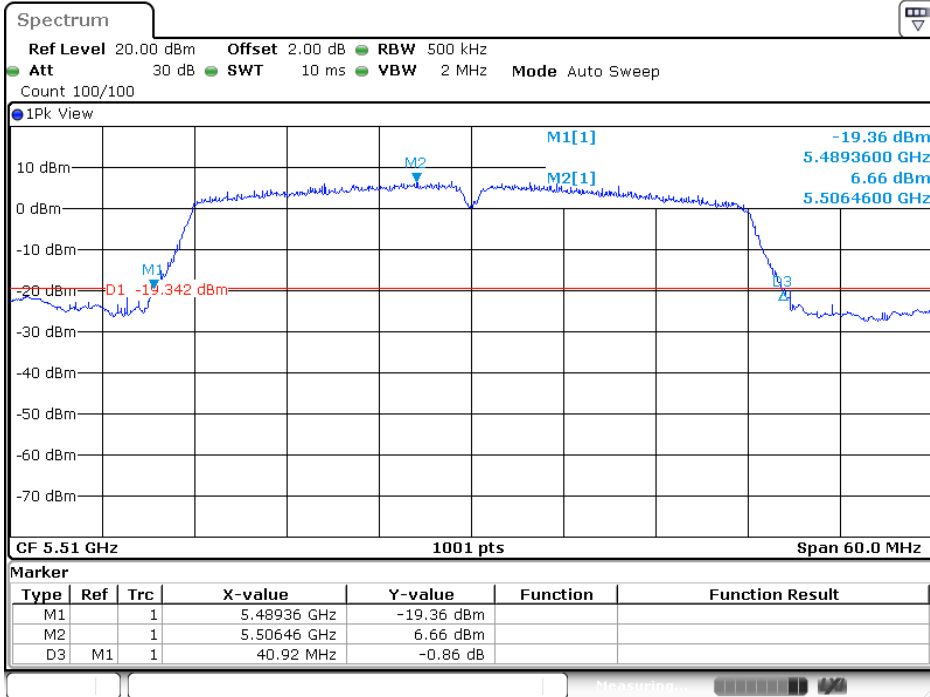
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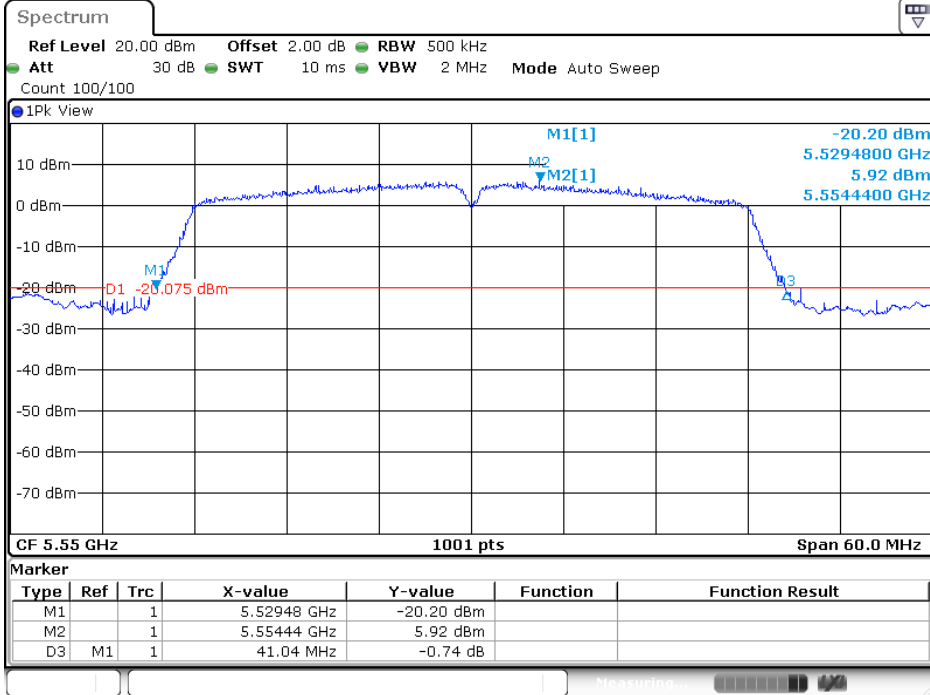
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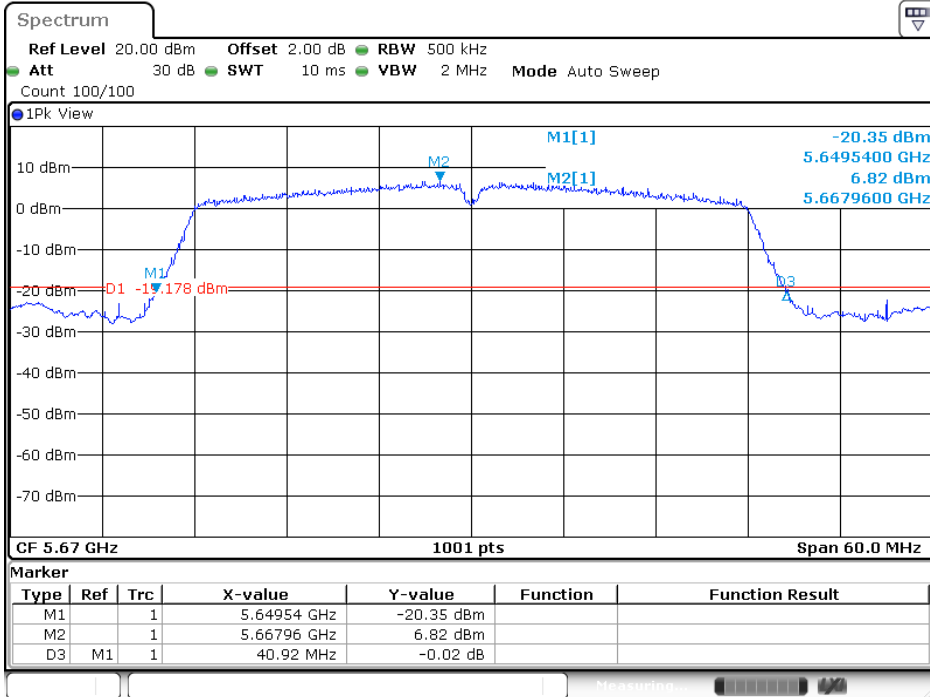
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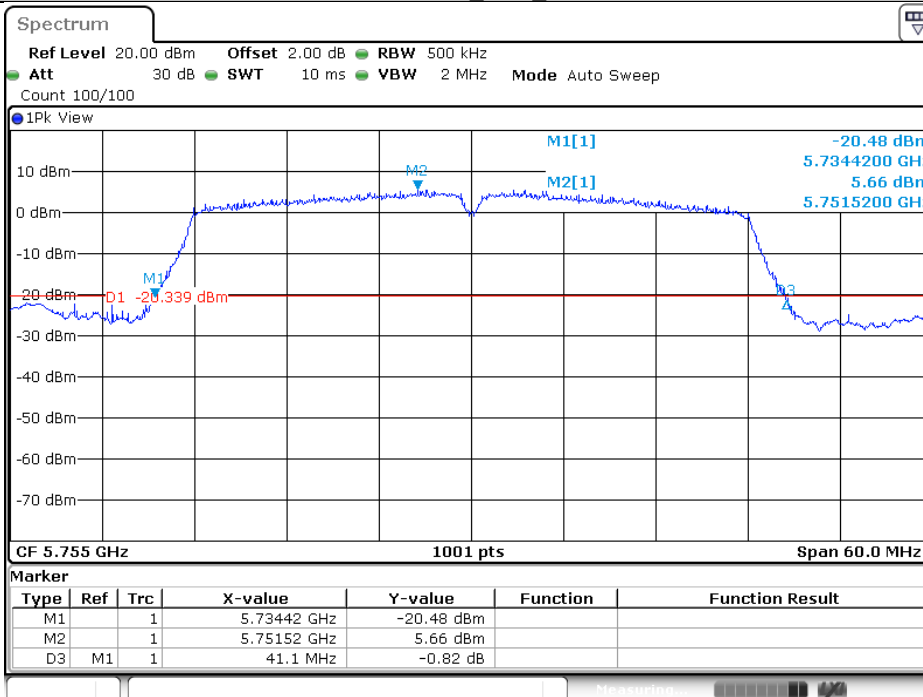
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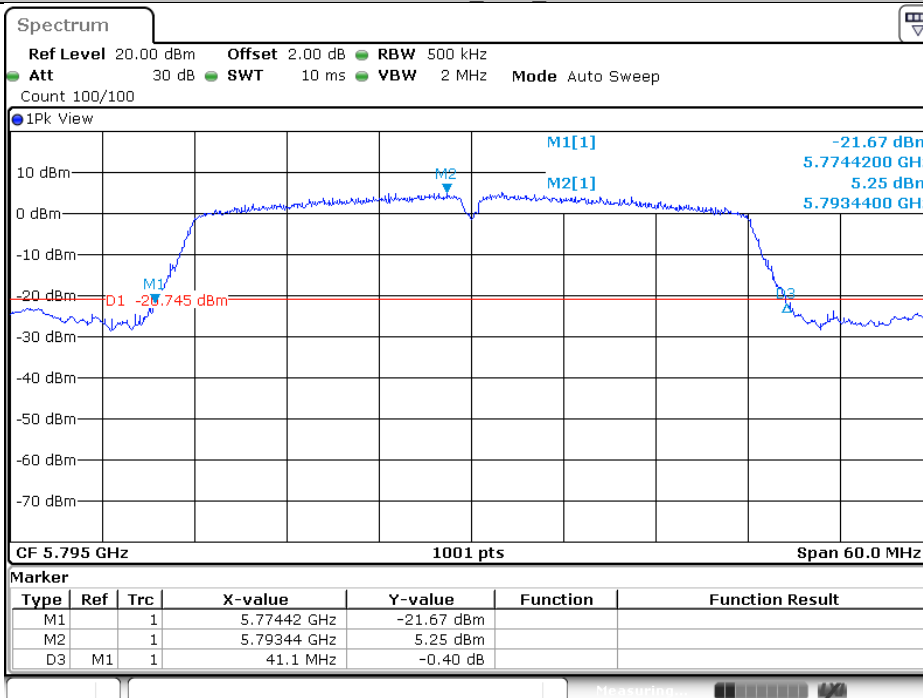
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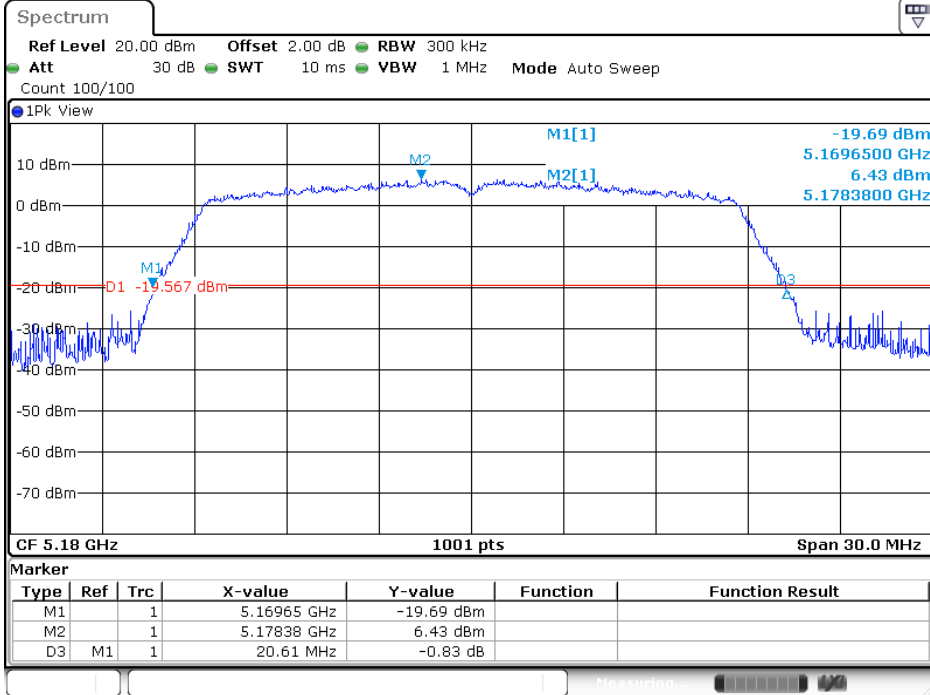
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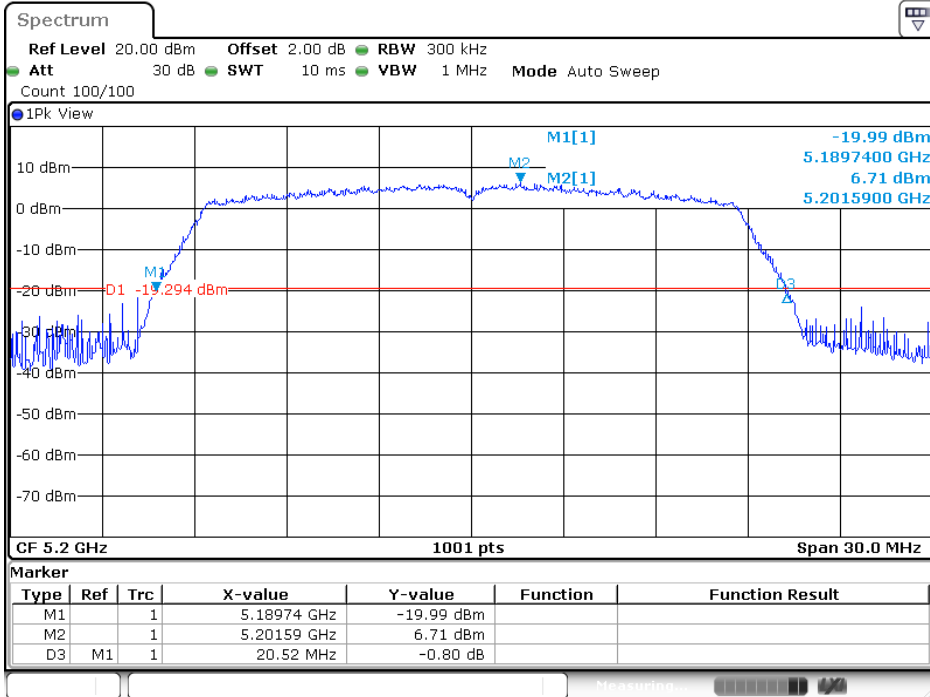
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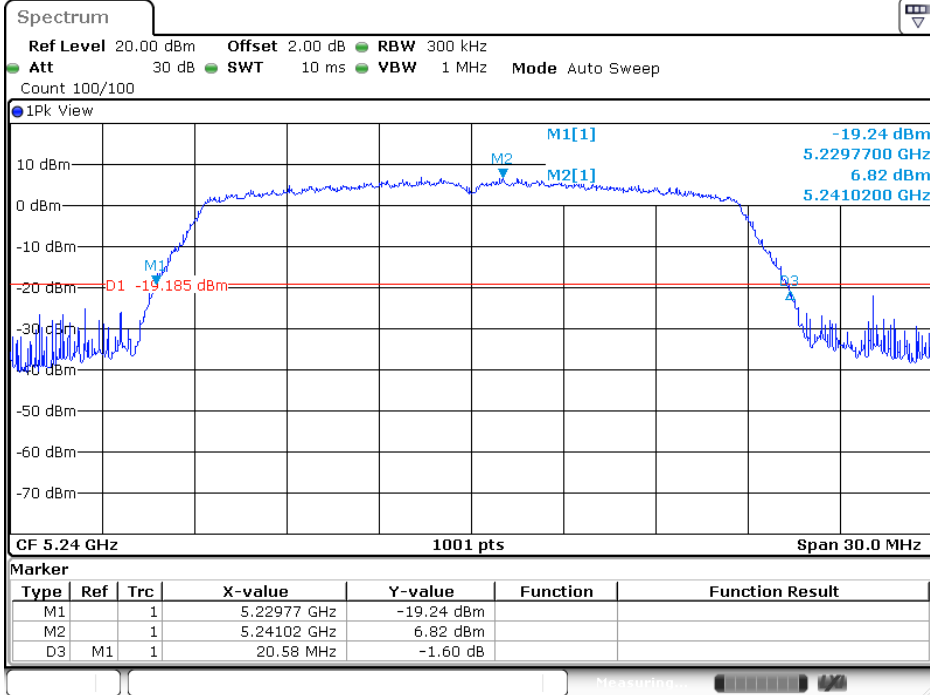
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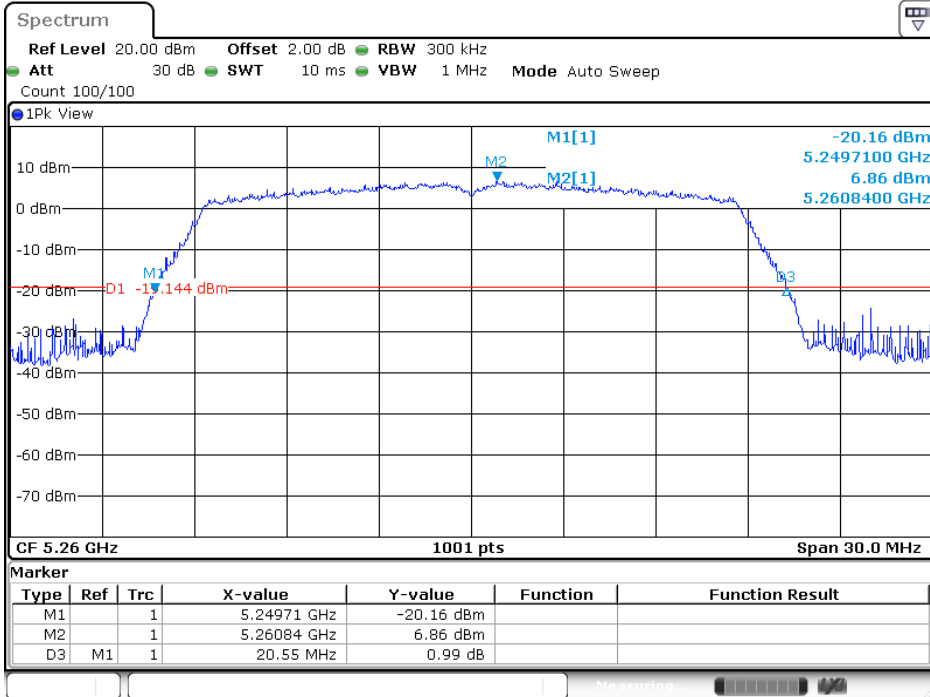
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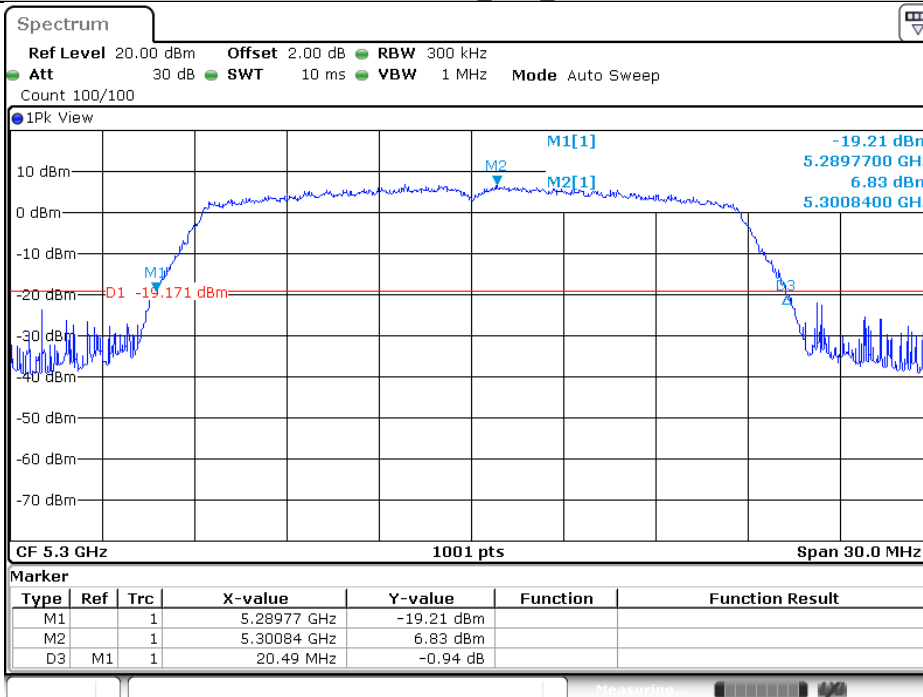
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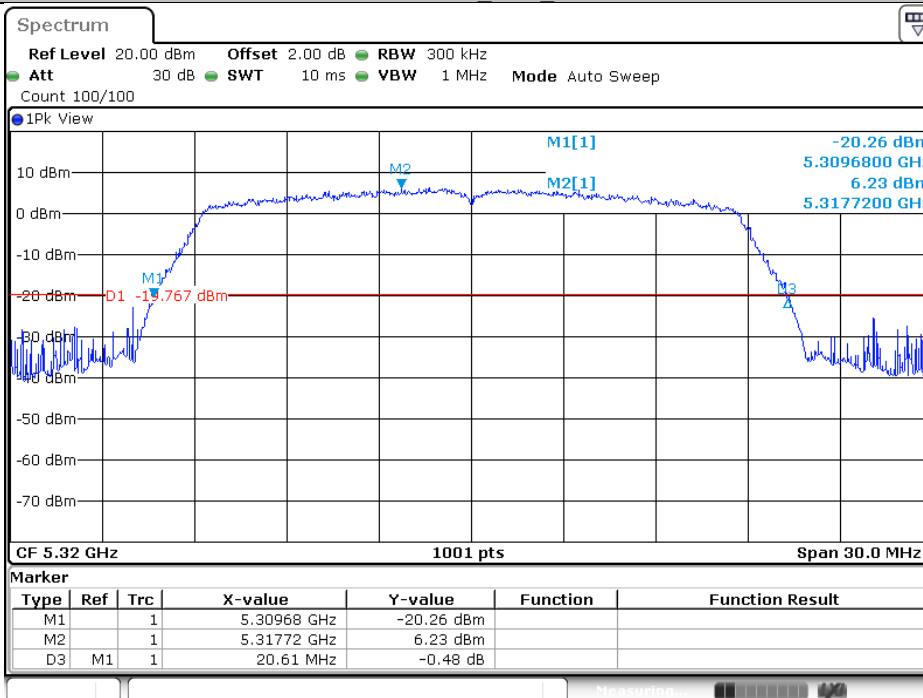
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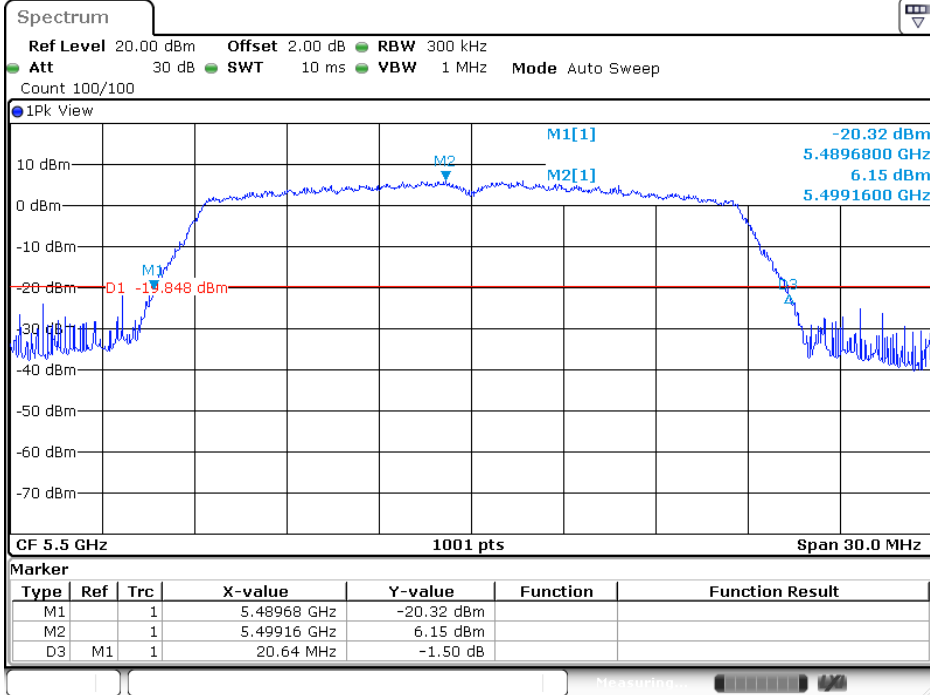
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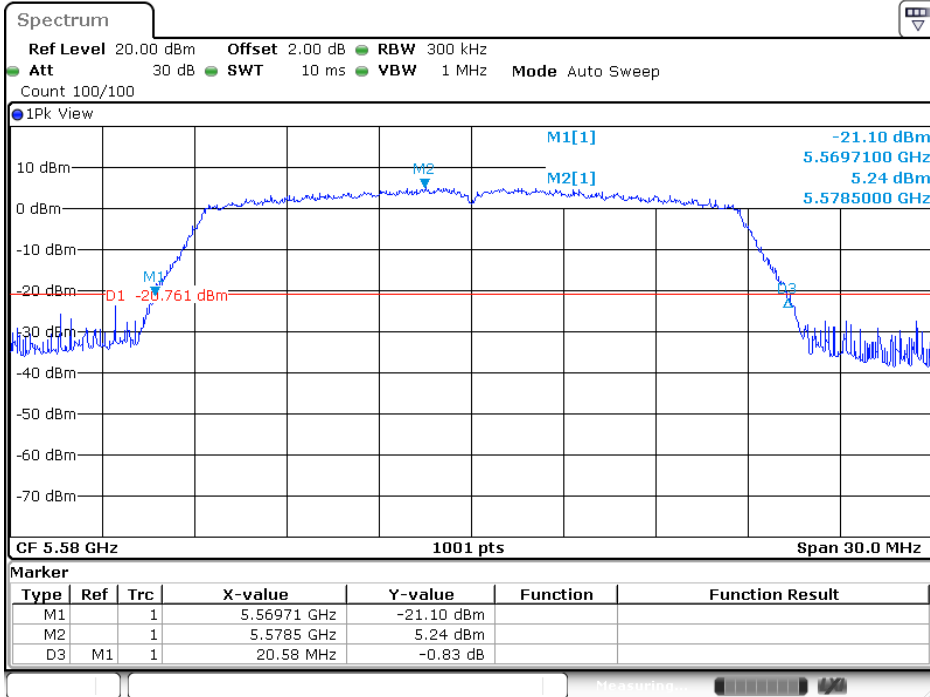
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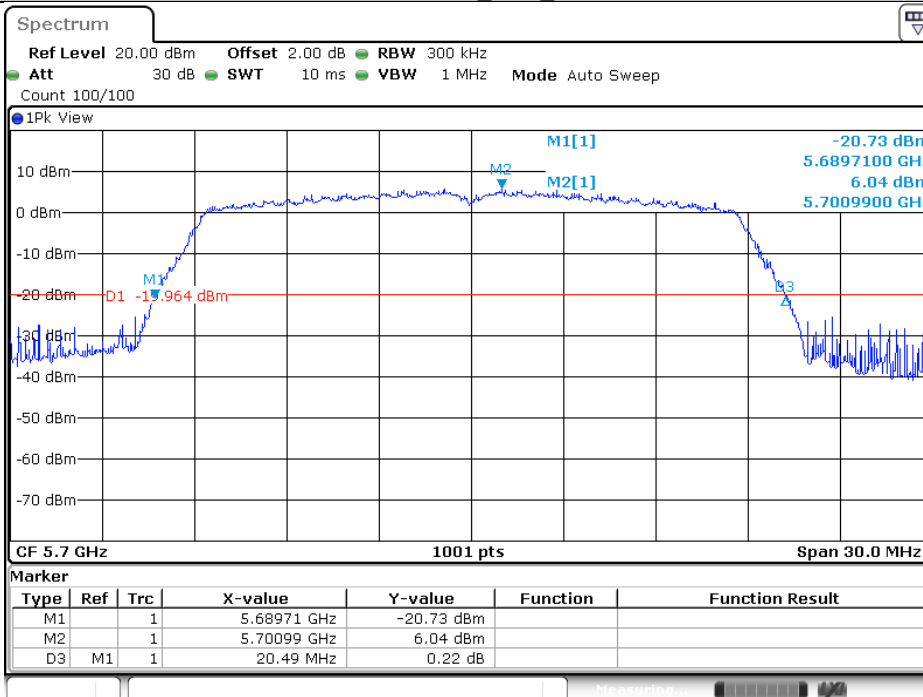
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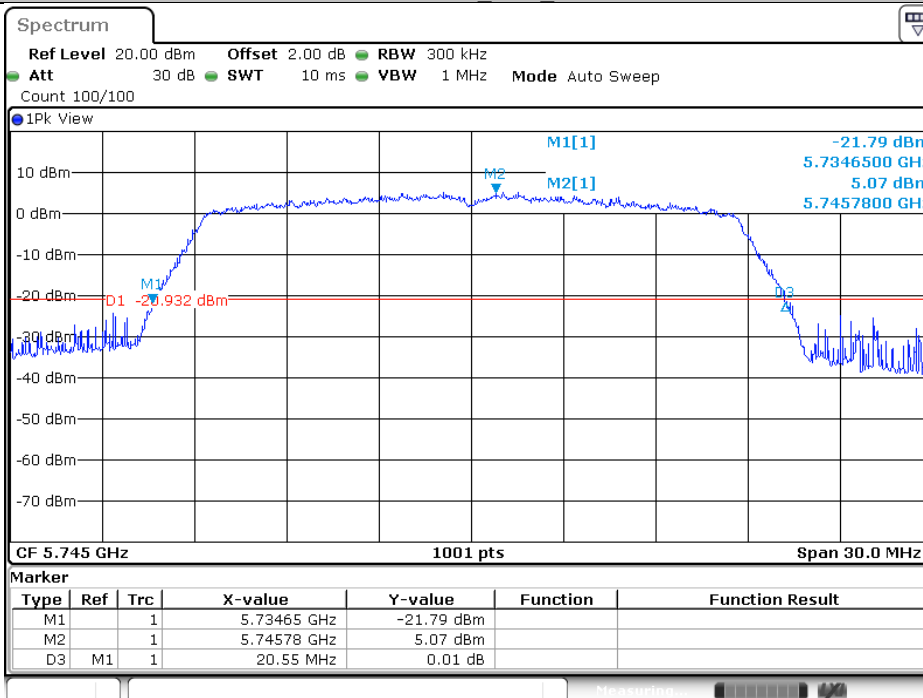
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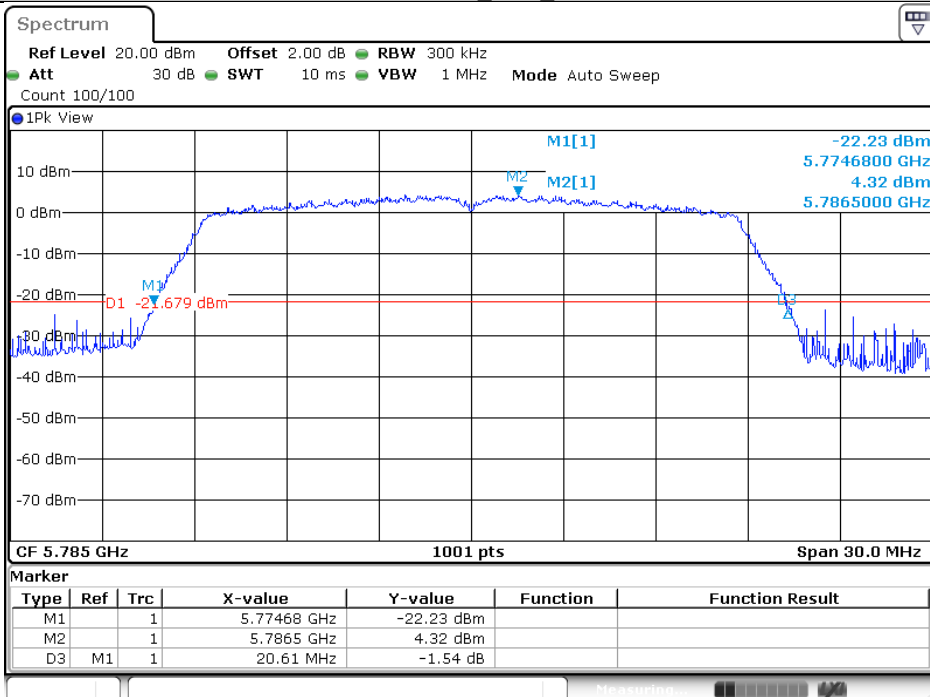
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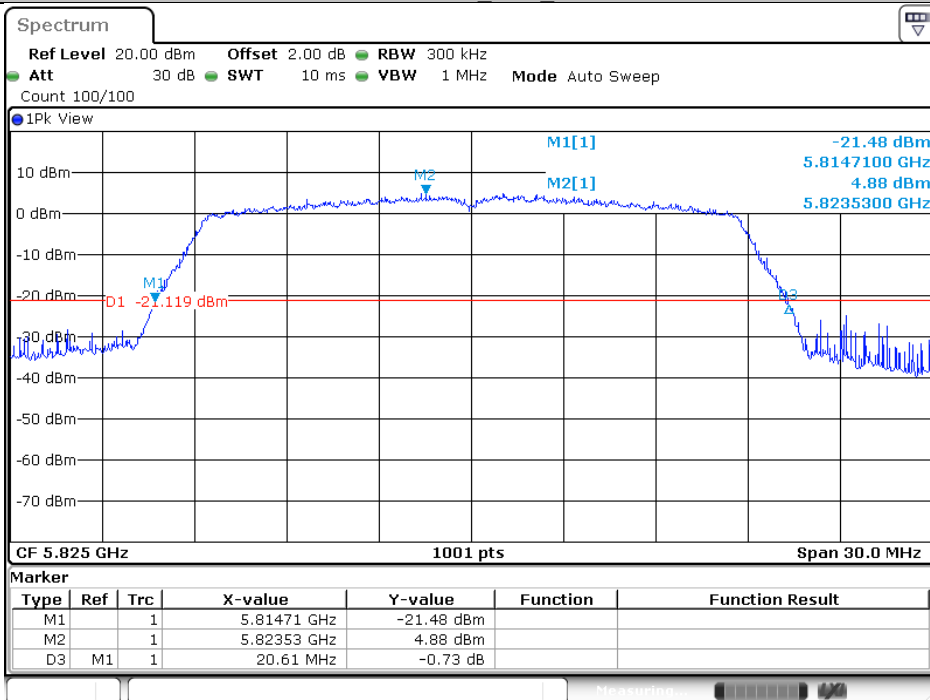
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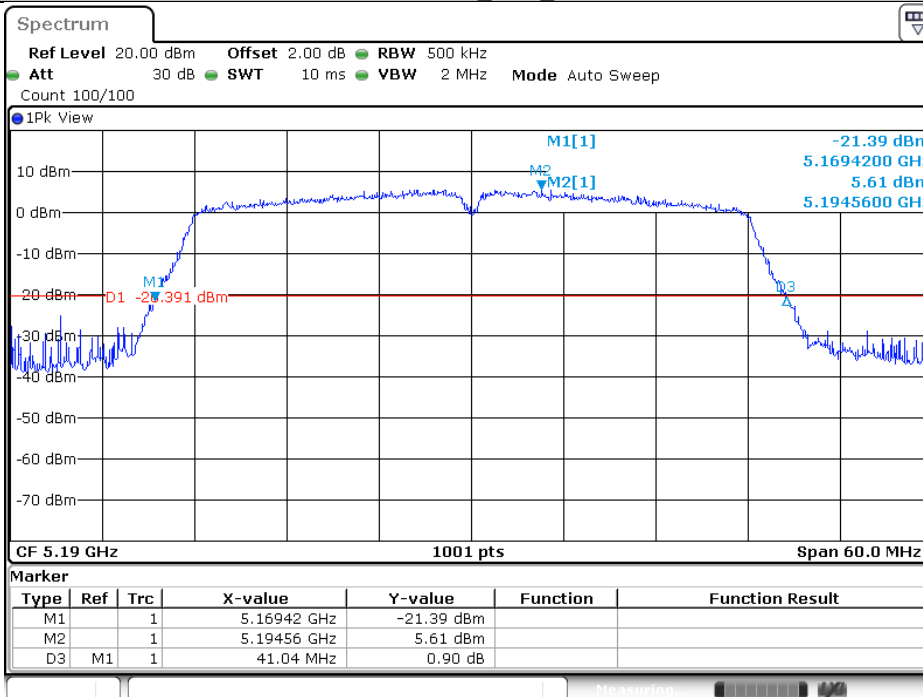
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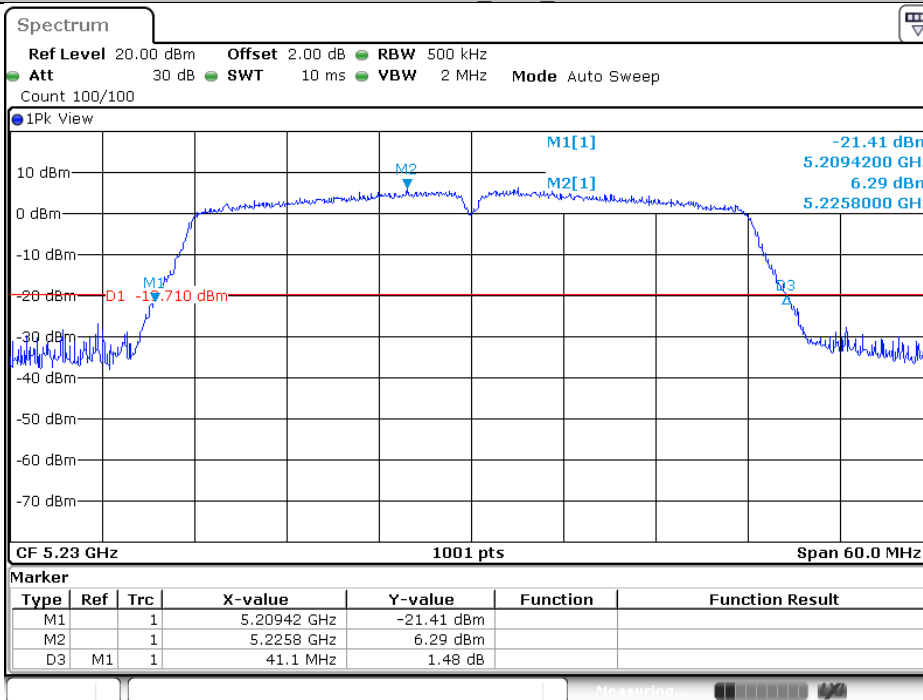
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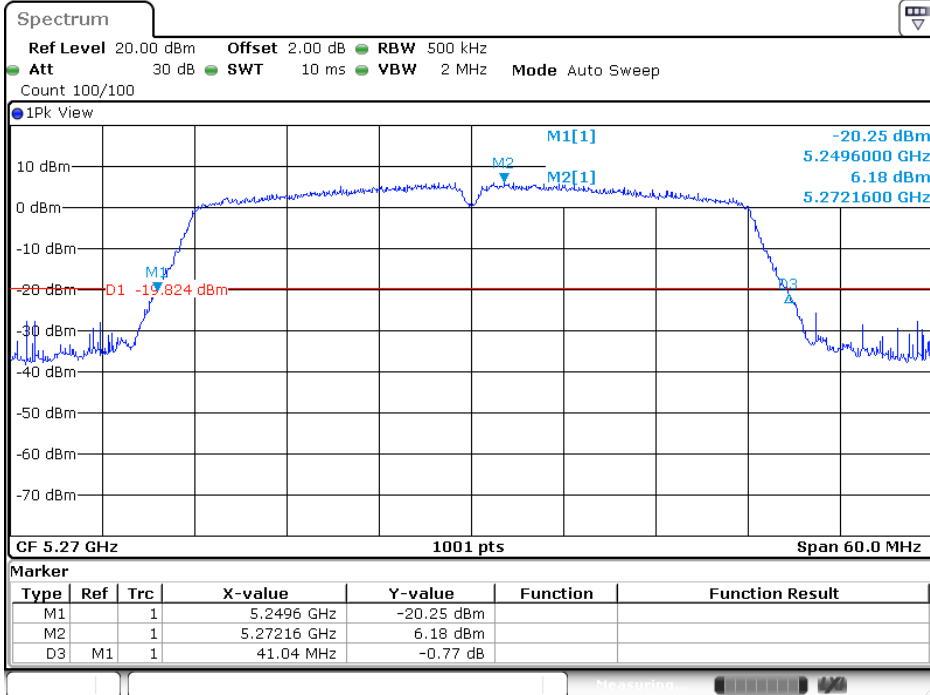
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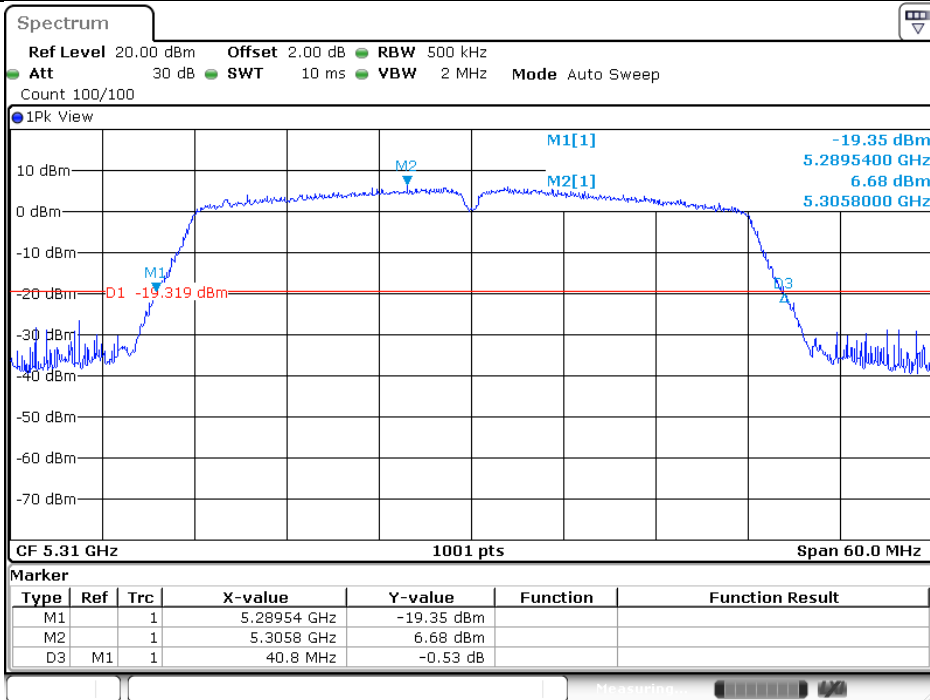
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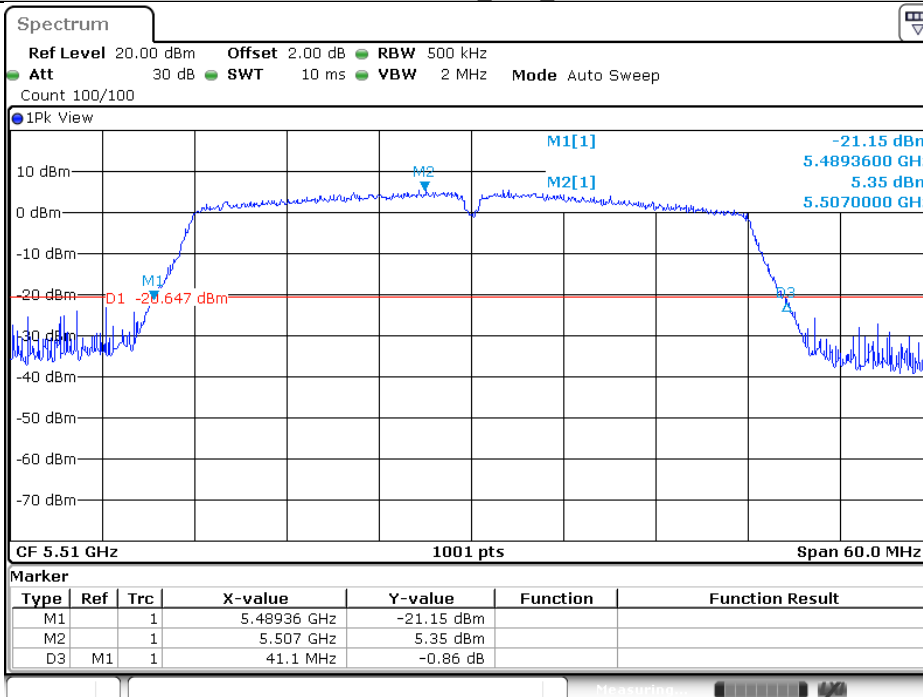
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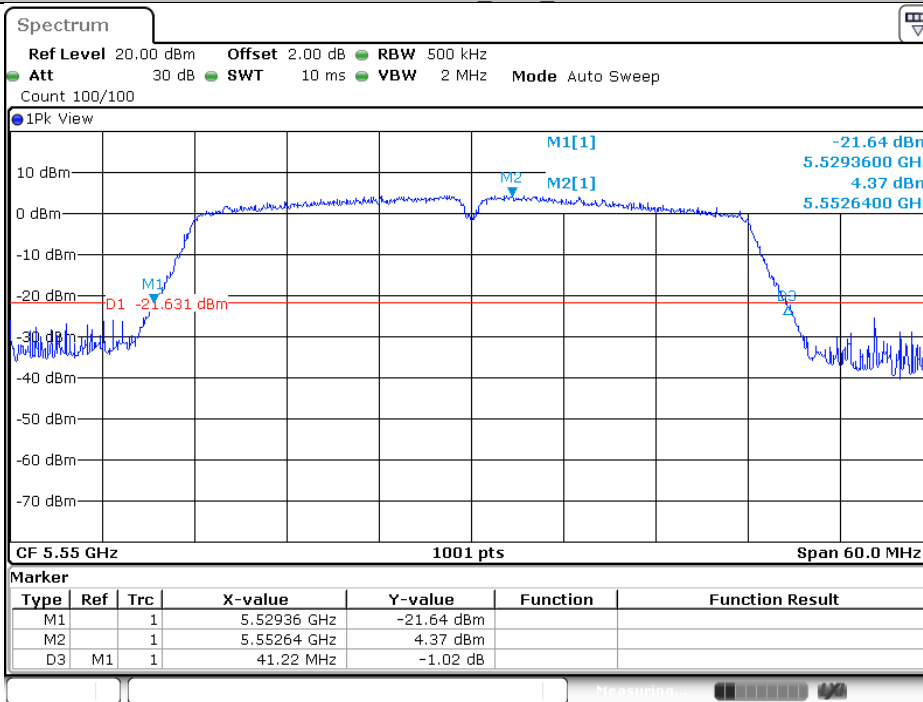
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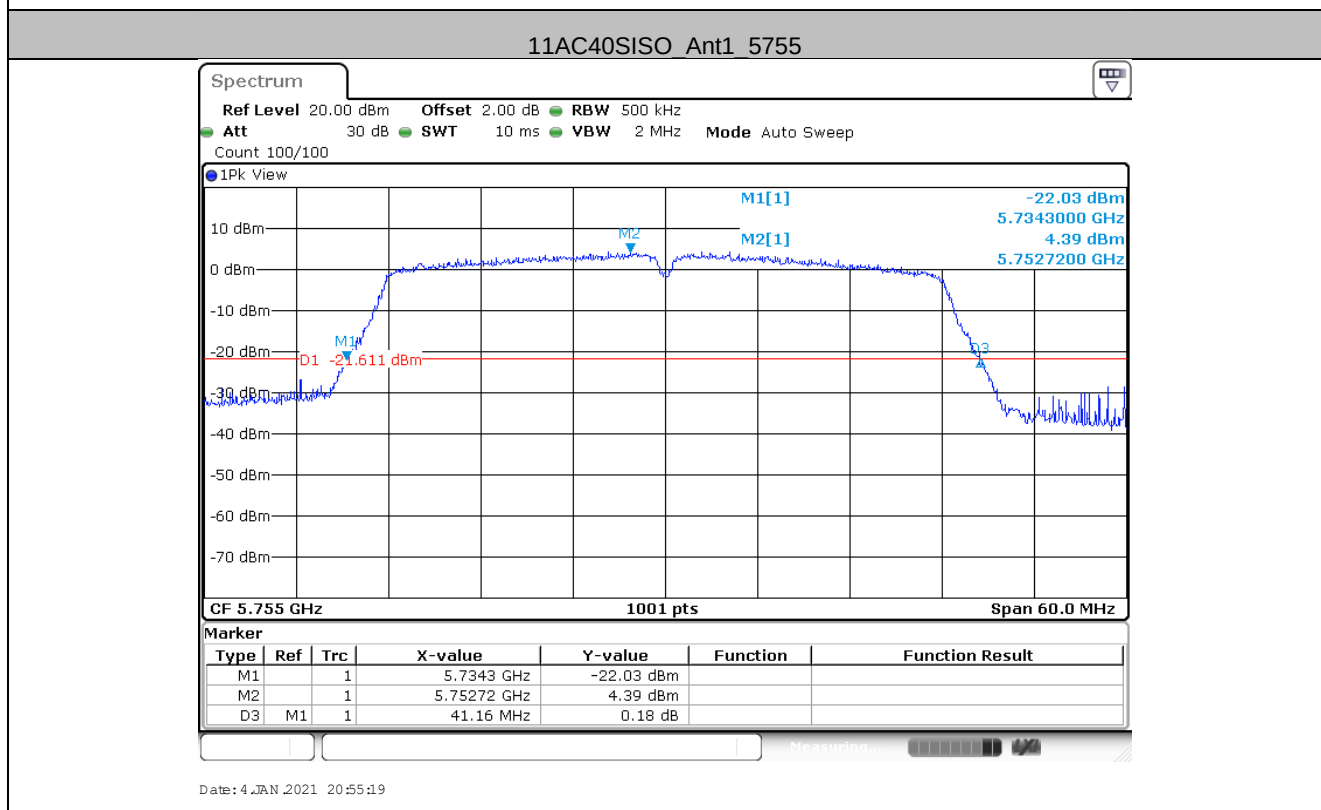
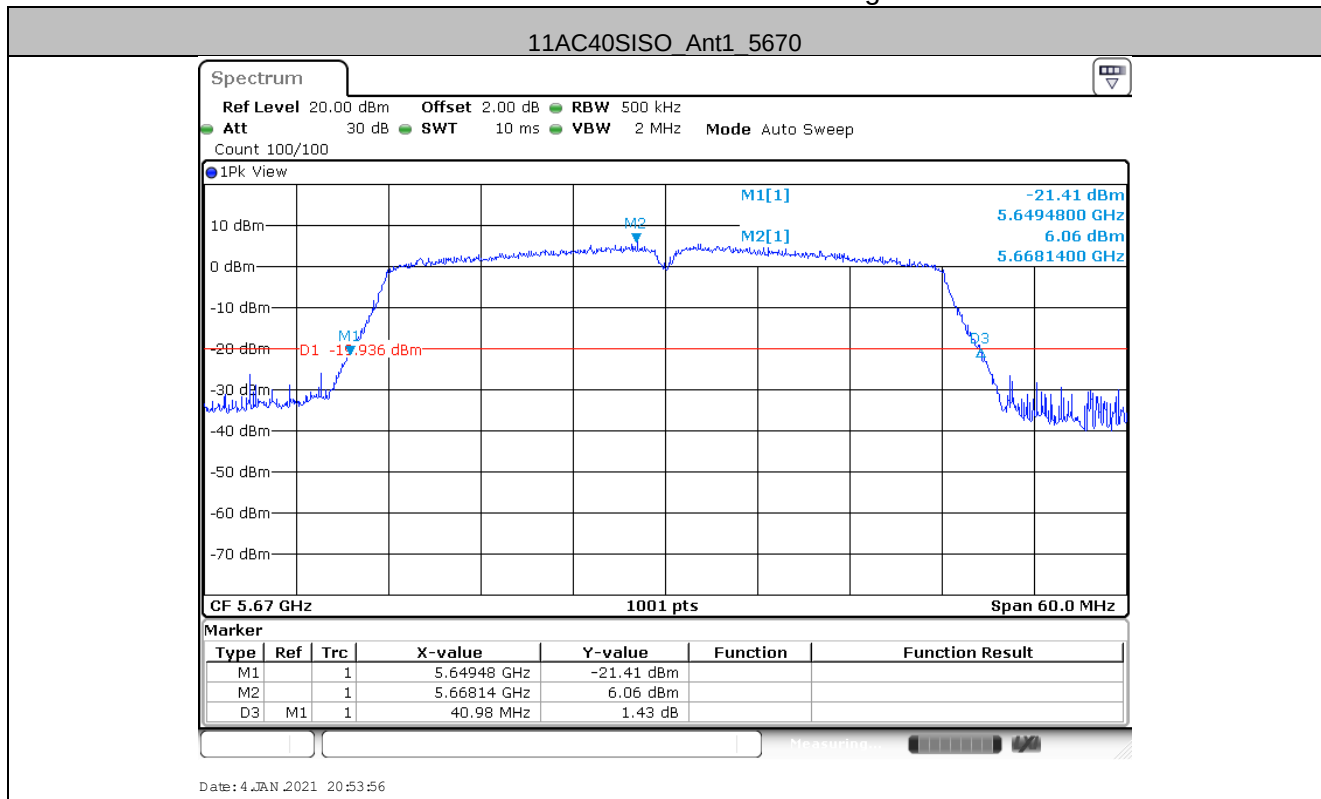


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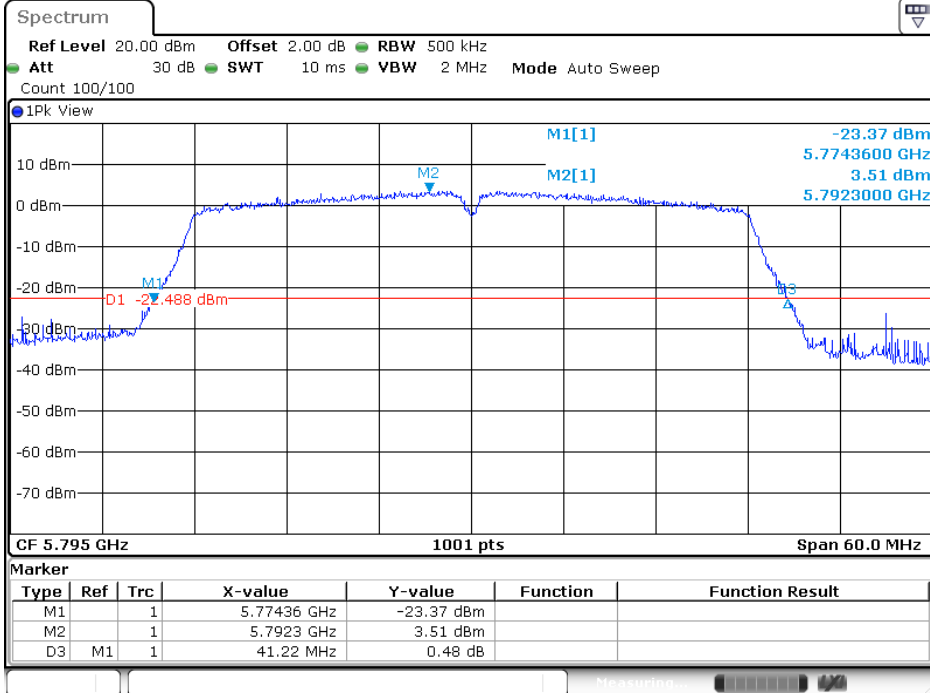
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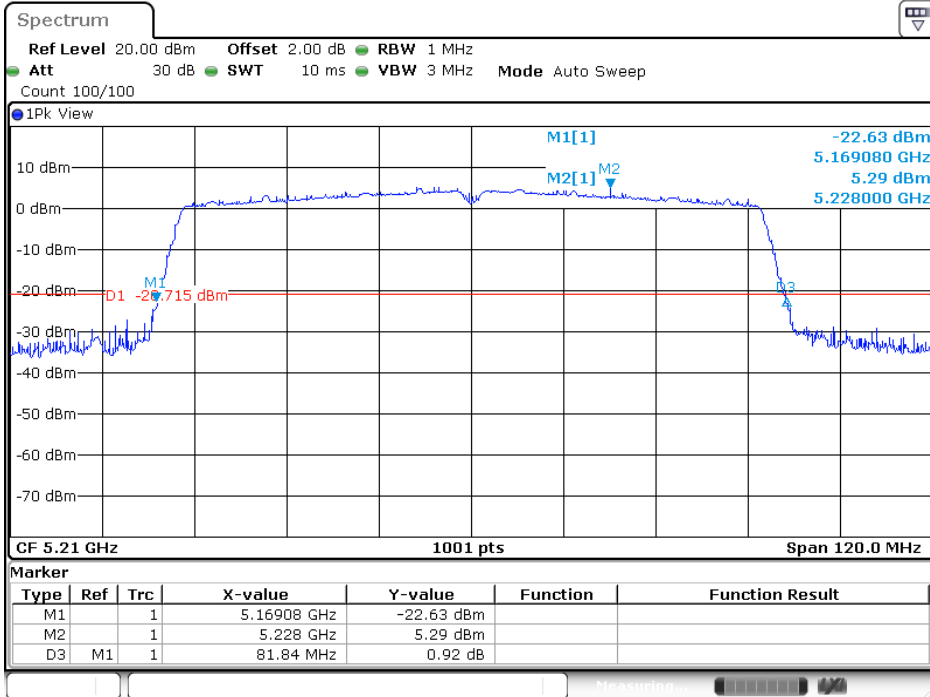
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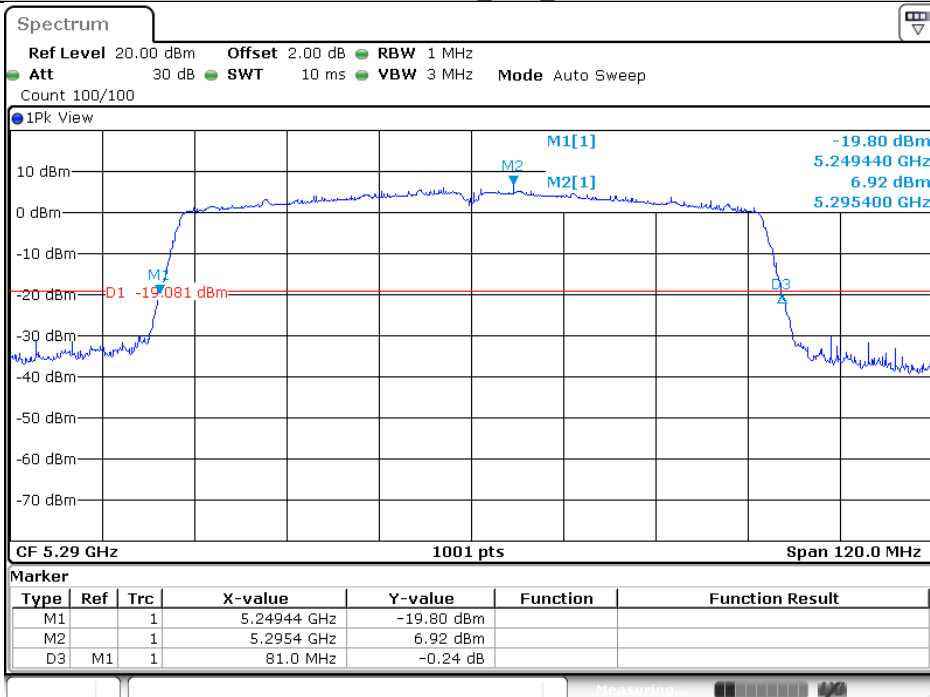
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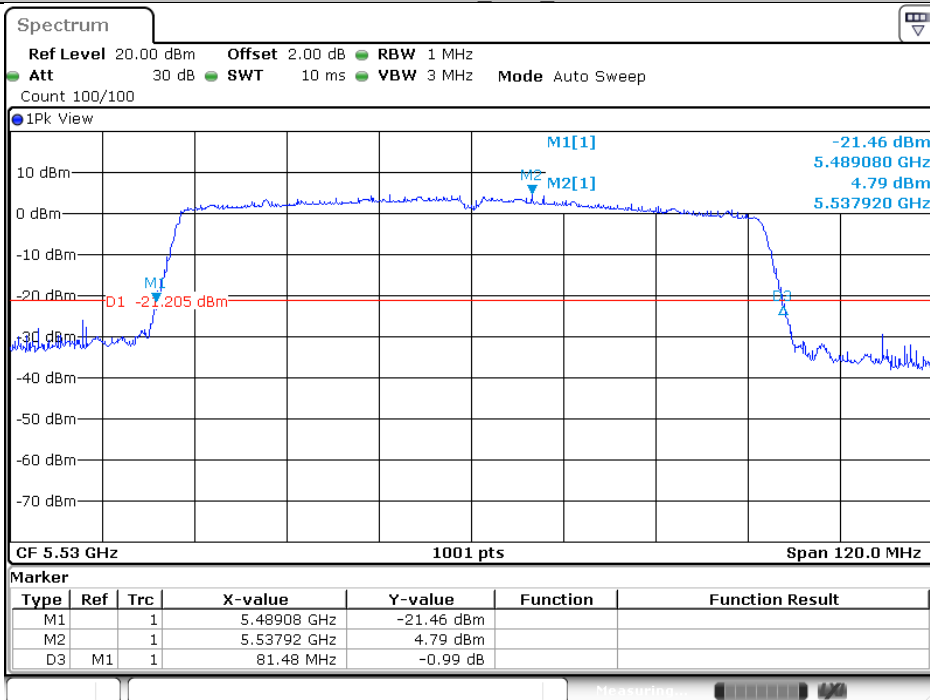
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11AC80SISO Ant1 5290



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11AC80SISO Ant1 5530



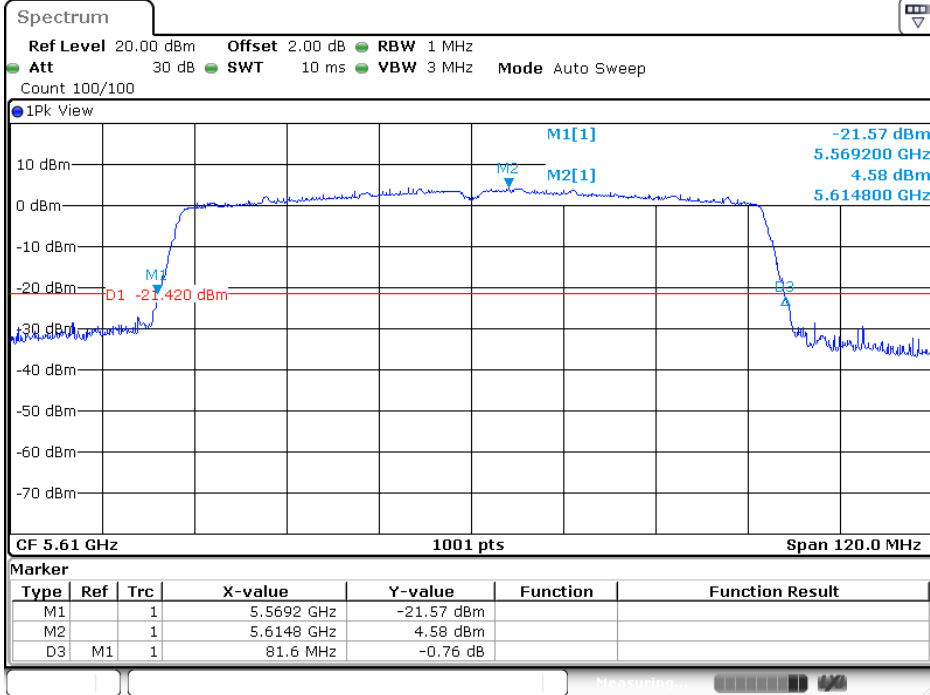
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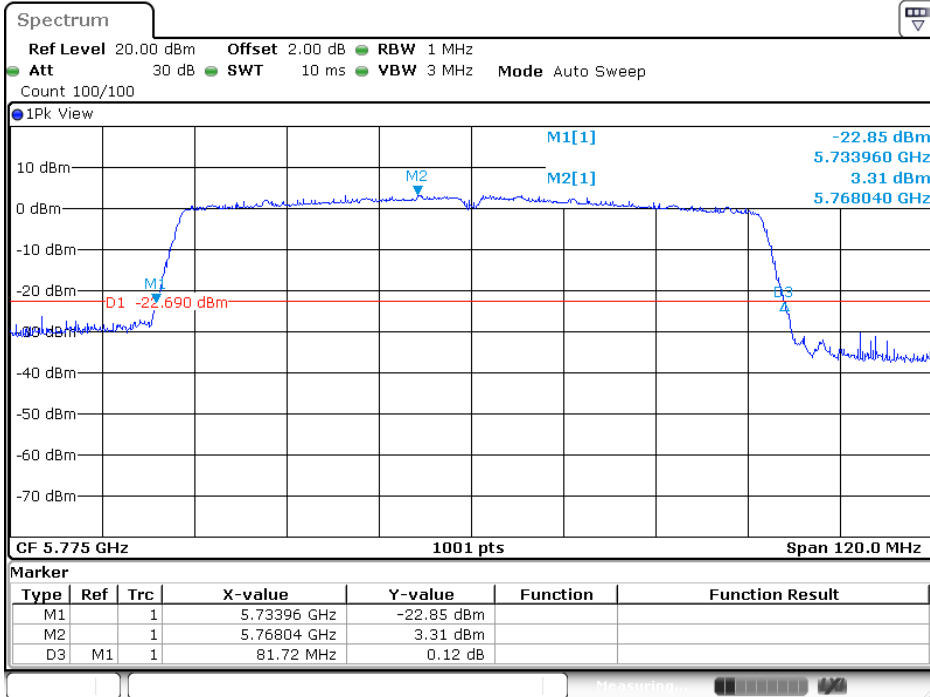
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Occupied channel bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.753	5171.608	5188.362	---	PASS
		5200	16.753	5191.608	5208.362	---	PASS
		5240	16.753	5231.608	5248.362	---	PASS
		5260	16.753	5251.638	5268.392	---	PASS
		5300	16.753	5291.608	5308.362	---	PASS
		5320	16.753	5311.578	5328.332	---	PASS
		5500	16.723	5491.578	5508.302	---	PASS
		5580	16.813	5571.578	5588.392	---	PASS
		5700	16.723	5691.608	5708.332	---	PASS
		5745	16.783	5736.548	5753.332	---	PASS
		5785	16.753	5776.608	5793.362	---	PASS
		5825	16.813	5816.608	5833.422	---	PASS
11N20SISO	Ant1	5180	17.772	5171.099	5188.871	---	PASS
		5200	17.712	5191.129	5208.841	---	PASS
		5240	17.742	5231.129	5248.871	---	PASS
		5260	17.742	5251.129	5268.871	---	PASS
		5300	17.742	5291.099	5308.841	---	PASS
		5320	17.742	5311.099	5328.841	---	PASS
		5500	17.742	5491.069	5508.811	---	PASS
		5580	17.772	5571.099	5588.871	---	PASS
		5700	17.712	5691.129	5708.841	---	PASS
		5745	17.772	5736.069	5753.841	---	PASS
		5785	17.772	5776.099	5793.871	---	PASS
		5825	17.772	5816.129	5833.901	---	PASS
11N40SISO	Ant1	5190	36.144	5171.898	5208.042	---	PASS
		5230	36.144	5211.958	5248.102	---	PASS
		5270	36.144	5251.958	5288.102	---	PASS
		5310	36.204	5291.838	5328.042	---	PASS
		5510	36.204	5491.778	5527.982	---	PASS



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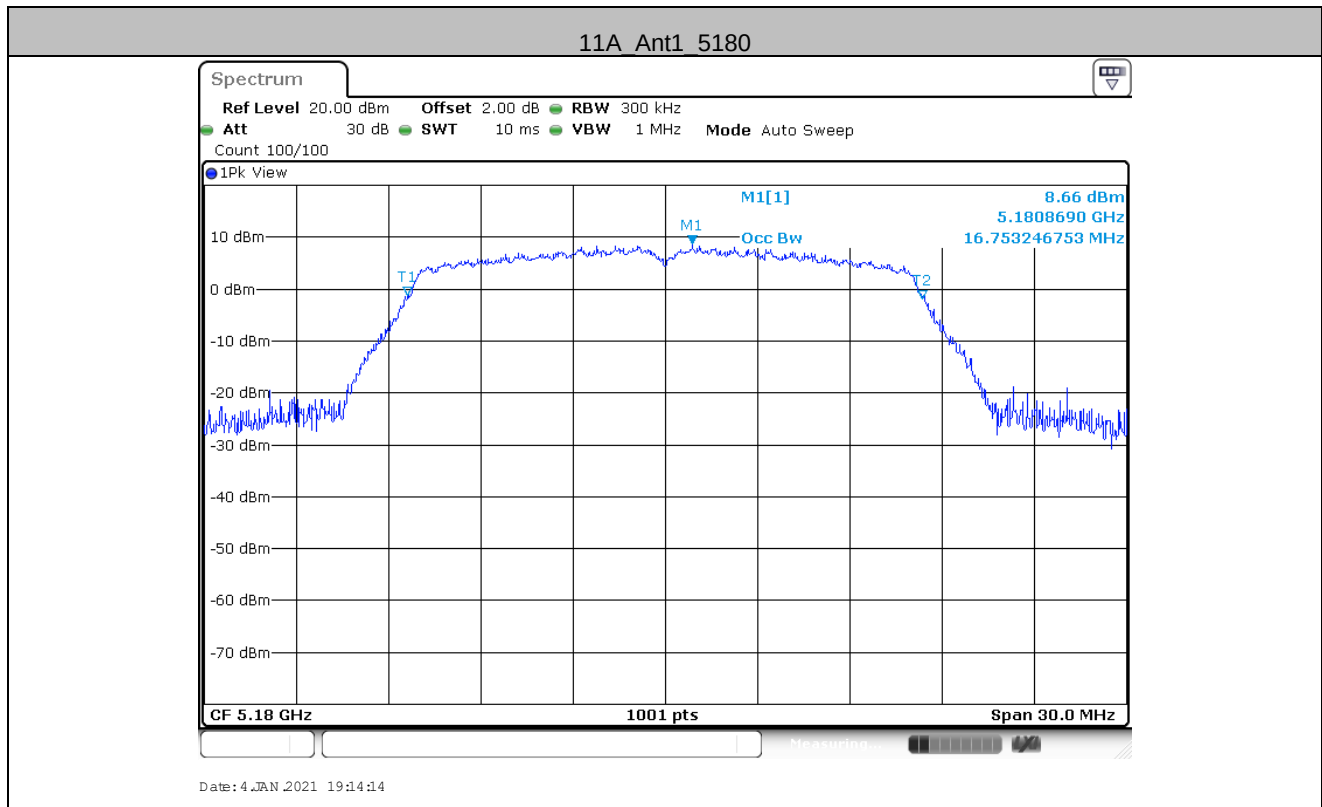
		5550	36.204	5531.838	5568.042	---	PASS
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		5755	36.204	5736.838	5773.042	---	PASS
		5795	36.204	5776.898	5813.102	---	PASS
11AC20SISO	Ant1	5180	17.712	5171.129	5188.841	---	PASS
		5200	17.712	5191.129	5208.841	---	PASS
		5240	17.712	5231.159	5248.871	---	PASS
		5260	17.682	5251.159	5268.841	---	PASS
		5300	17.682	5291.129	5308.811	---	PASS
		5320	17.712	5311.099	5328.811	---	PASS
		5500	17.712	5491.099	5508.811	---	PASS
		5580	17.712	5571.129	5588.841	---	PASS
		5700	17.682	5691.129	5708.811	---	PASS
		5745	17.712	5736.099	5753.811	---	PASS
		5785	17.712	5776.129	5793.841	---	PASS
		5825	17.742	5816.129	5833.871	---	PASS
11AC40SISO	Ant1	5190	36.144	5171.898	5208.042	---	PASS
		5230	36.084	5211.958	5248.042	---	PASS
		5270	36.144	5251.958	5288.102	---	PASS
		5310	36.084	5291.898	5327.982	---	PASS
		5510	36.144	5491.838	5527.982	---	PASS
		5550	36.204	5531.838	5568.042	---	PASS
		5670	36.144	5651.898	5688.042	---	PASS
		5755	36.144	5736.838	5772.982	---	PASS
		5795	36.144	5776.898	5813.042	---	PASS
11AC80SISO	Ant1	5210	75.285	5172.358	5247.642	---	PASS
		5290	75.045	5252.478	5327.522	---	PASS
		5530	75.285	5492.118	5567.403	---	PASS
		5610	75.165	5572.478	5647.642	---	PASS
		5775	75.405	5737.238	5812.642	---	PASS



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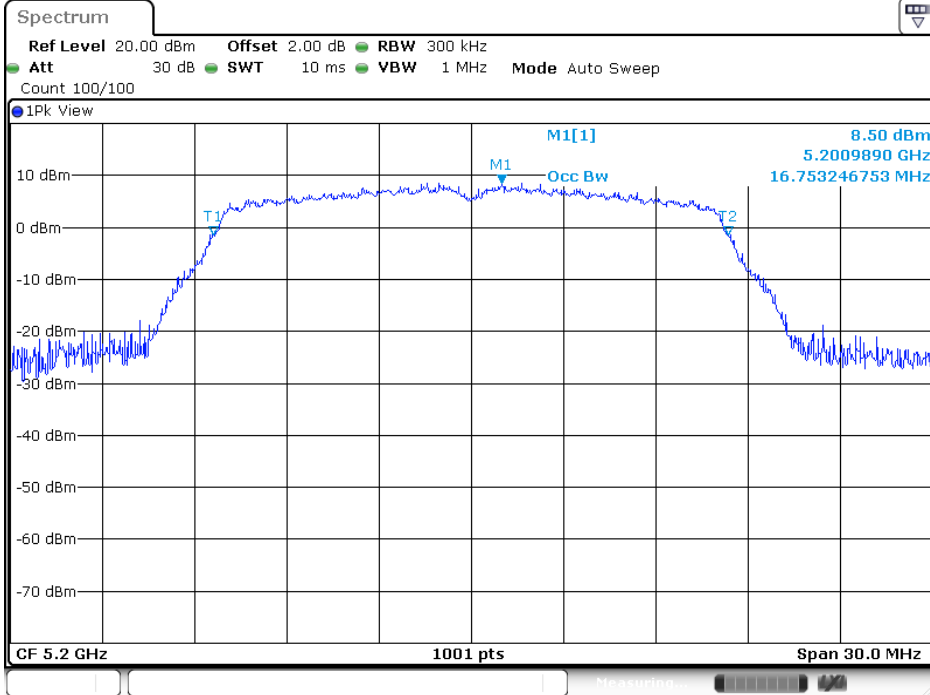
Test Graphs



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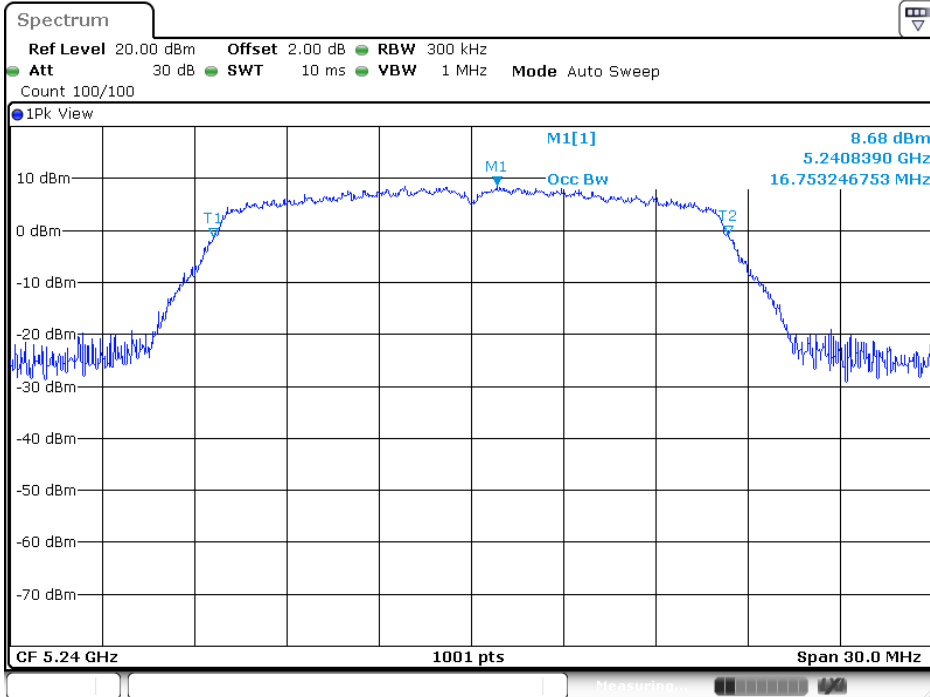
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11A Ant1 5200



Date: 4 JAN 2021 19:15:37

11A Ant1 5240



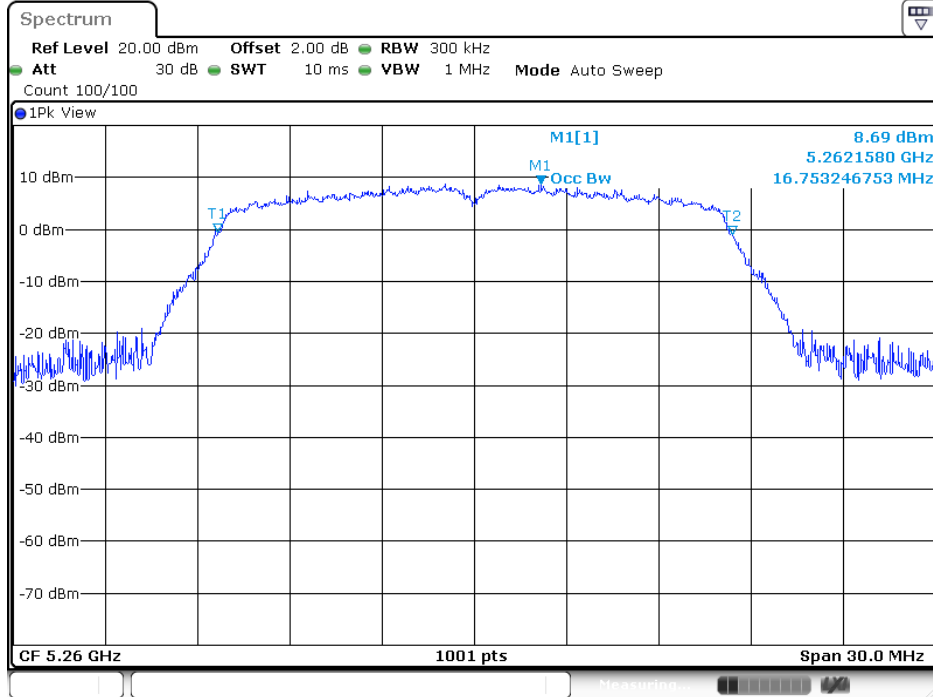
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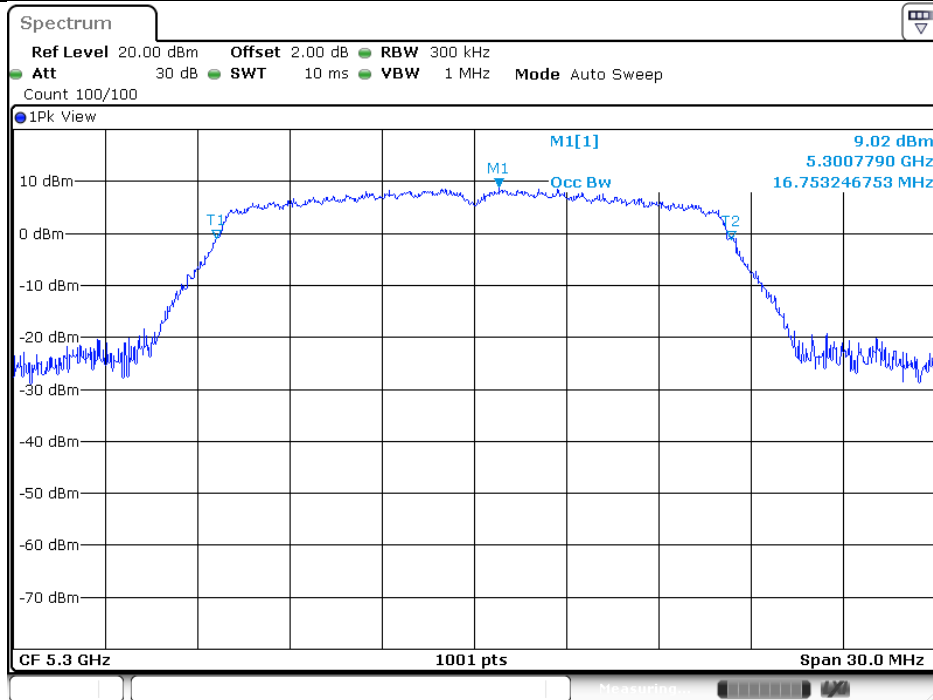
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11A Ant1 5260



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11A Ant1 5300



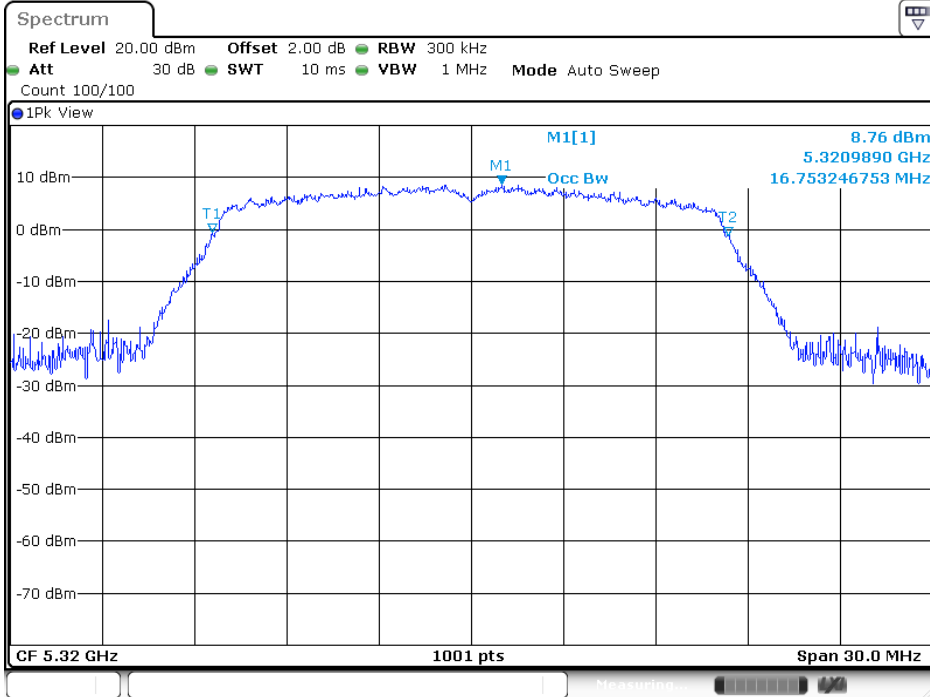
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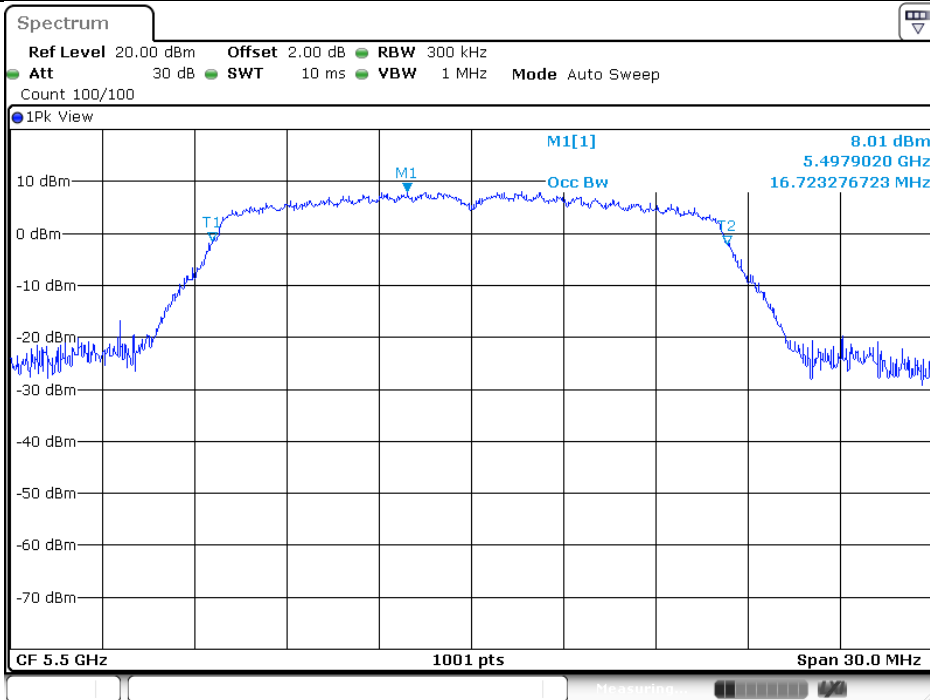
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11A Ant1 5320



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11A Ant1 5500



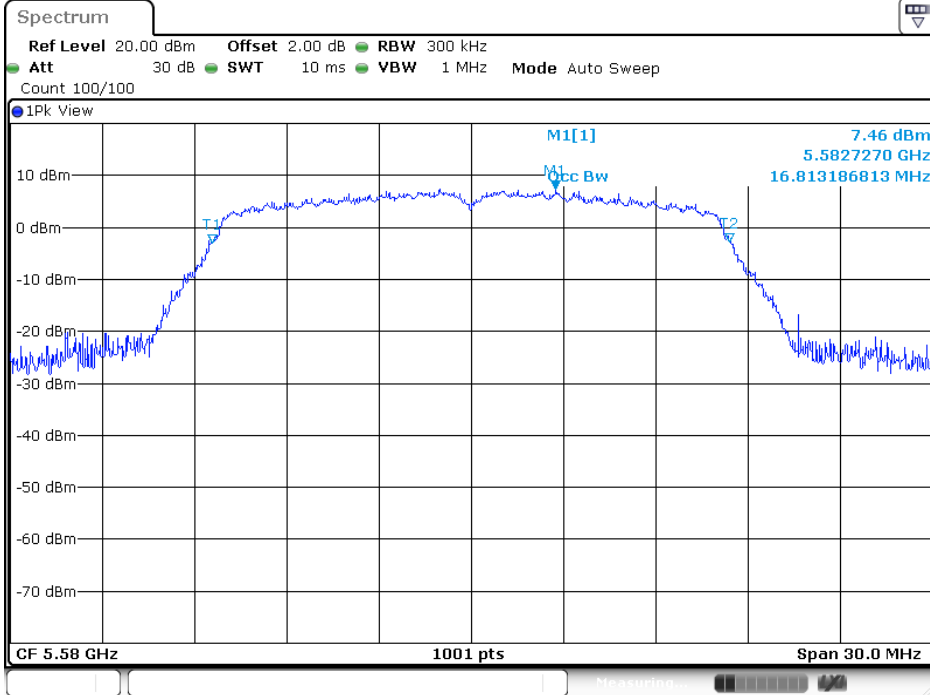
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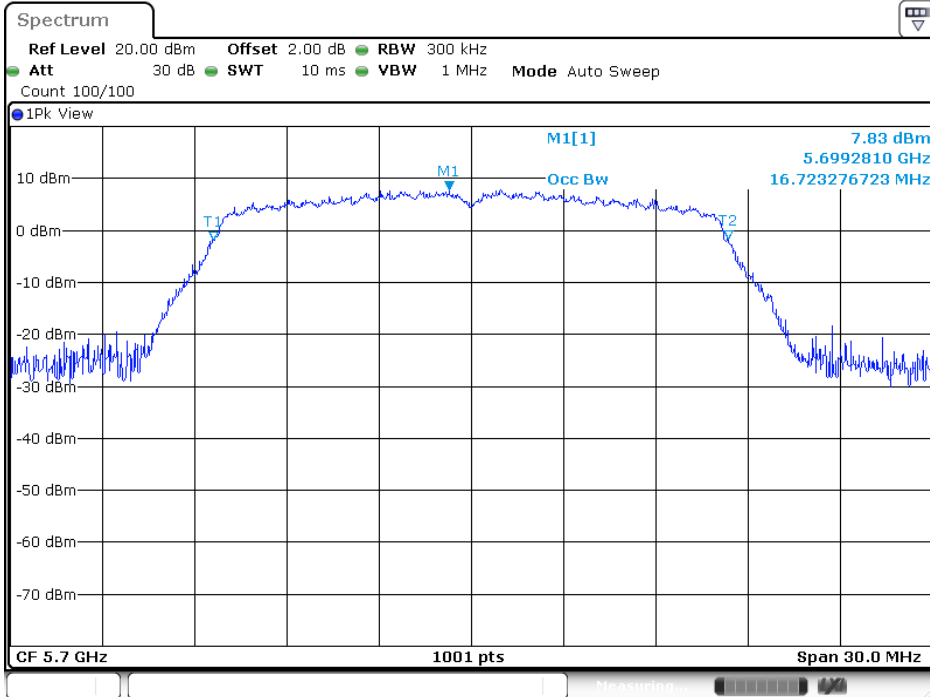
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11A Ant1 5580



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11A Ant1 5700



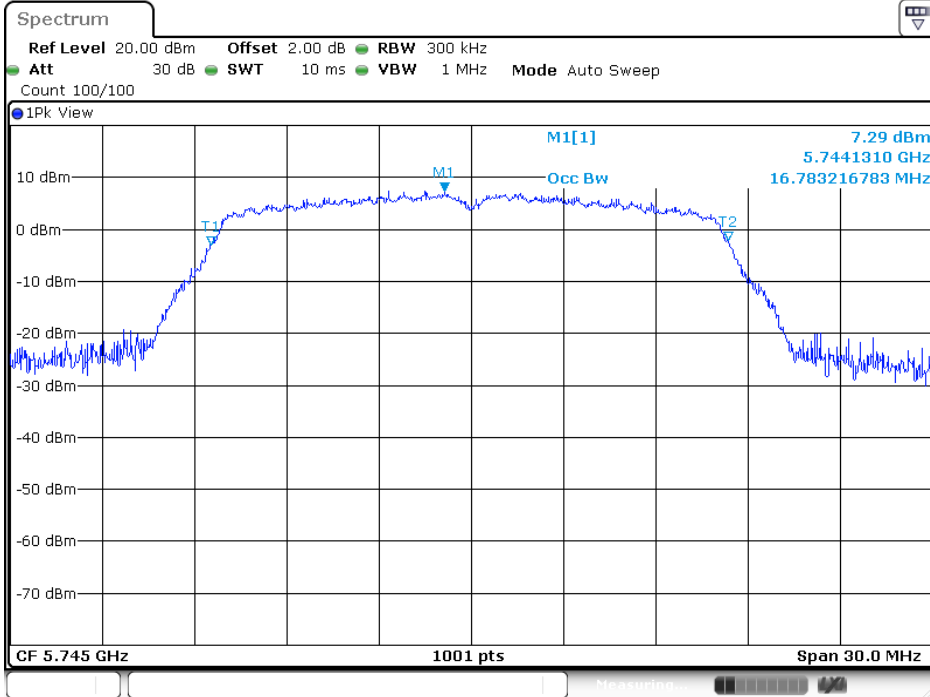
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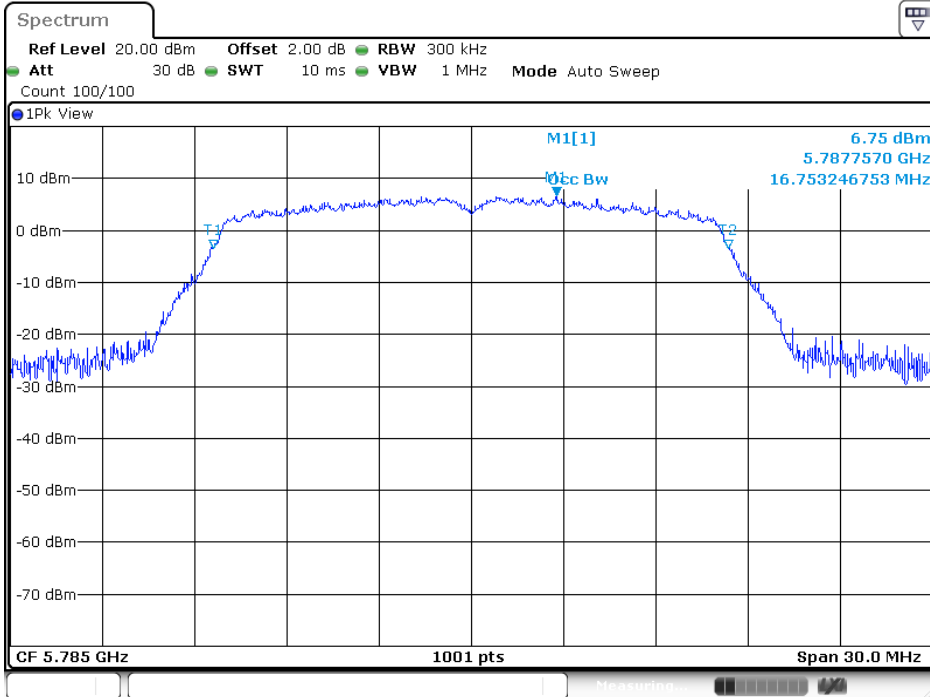
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11A Ant1 5745



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11A Ant1 5785



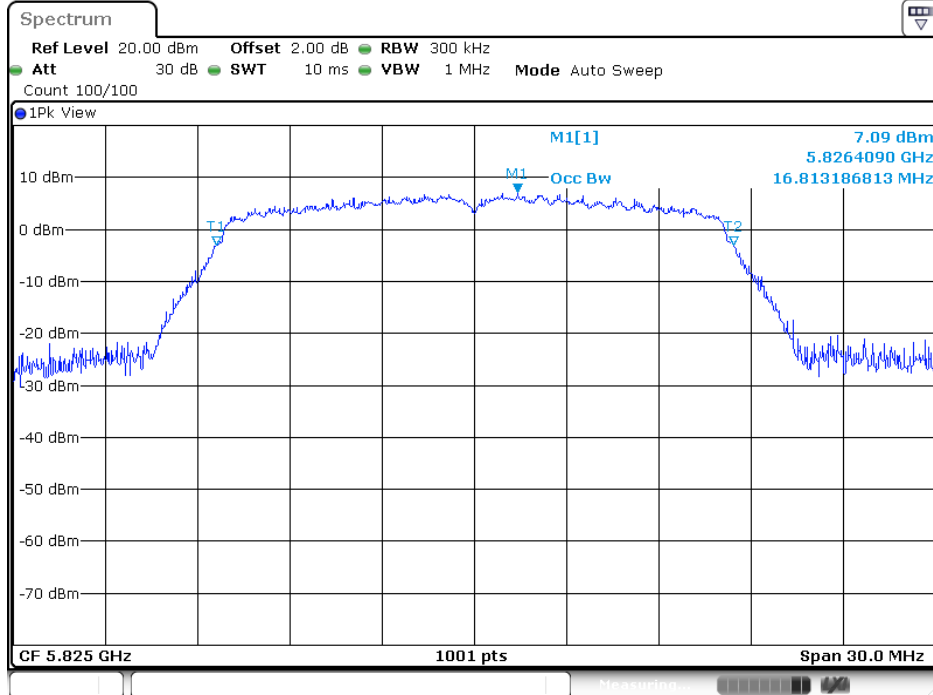
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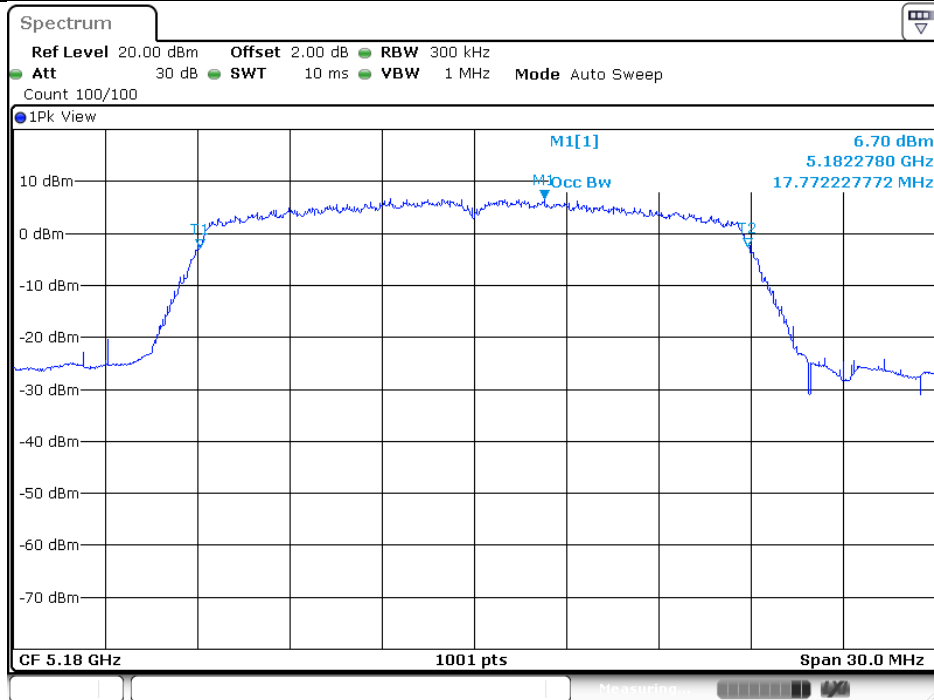
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11A Ant1 5825



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11N20SISO Ant1 5180



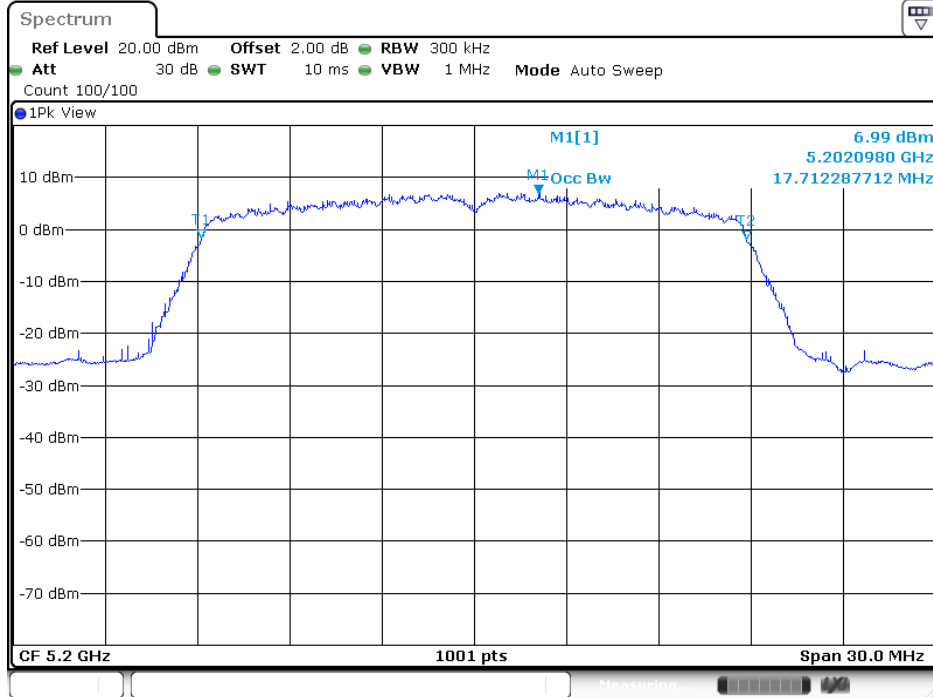
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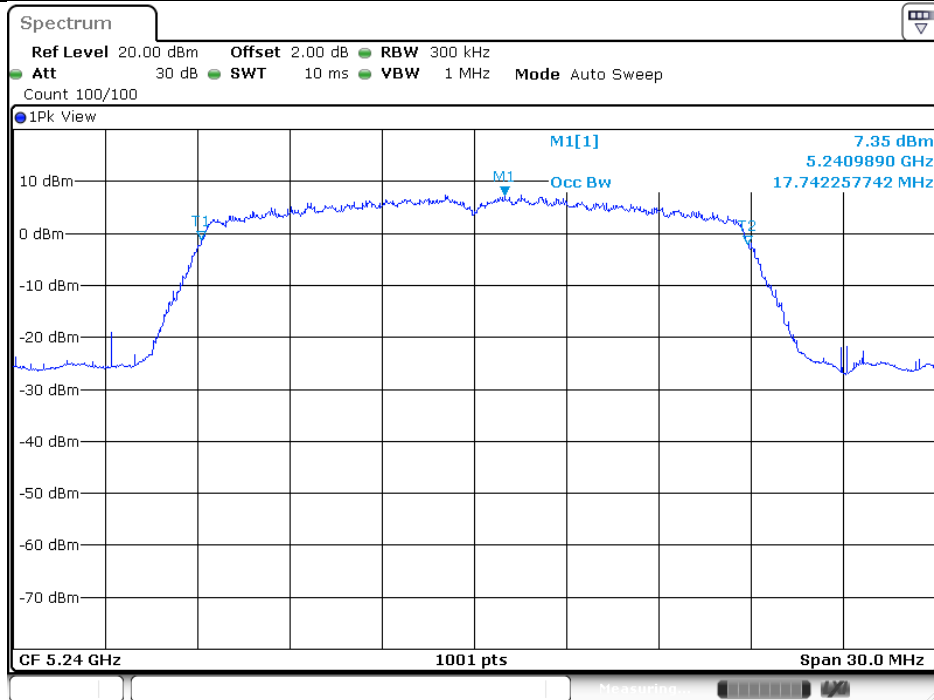
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11N20SISO Ant1 5200



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11N20SISO Ant1 5240



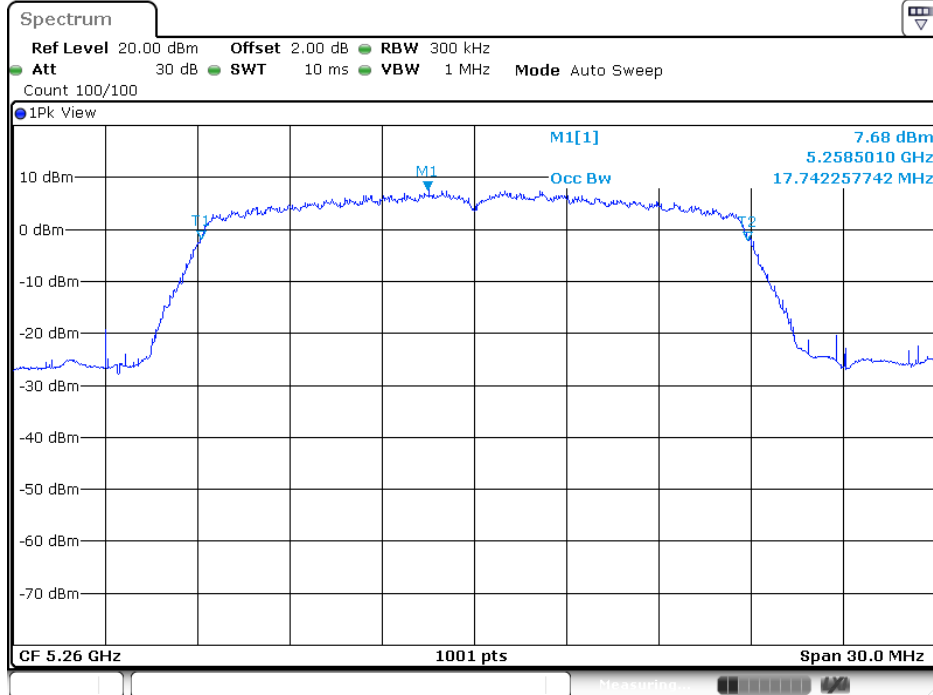
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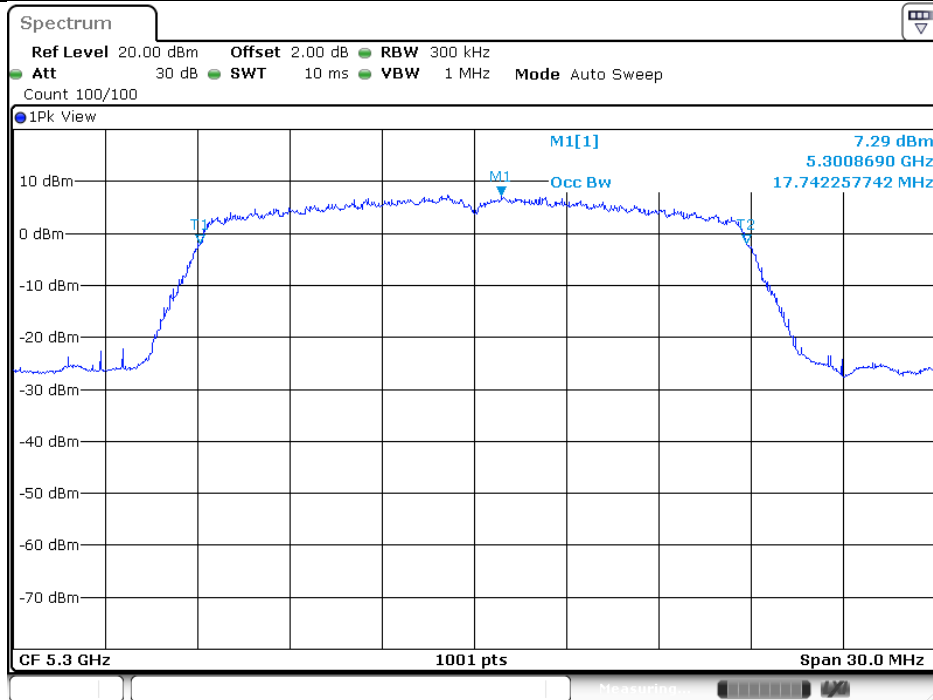
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11N20SISO Ant1 5260



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11N20SISO Ant1 5300



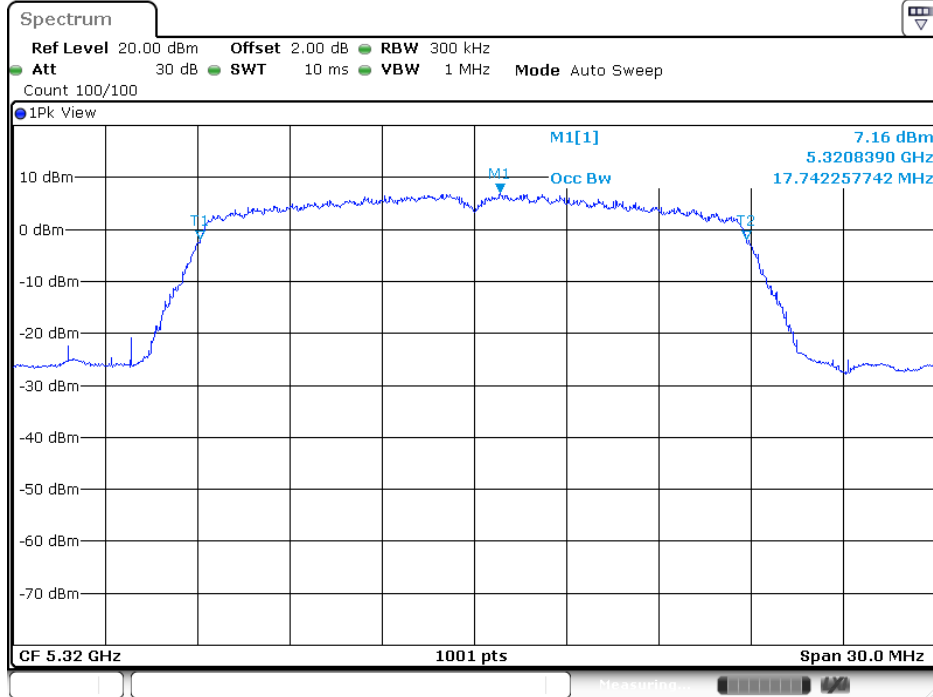
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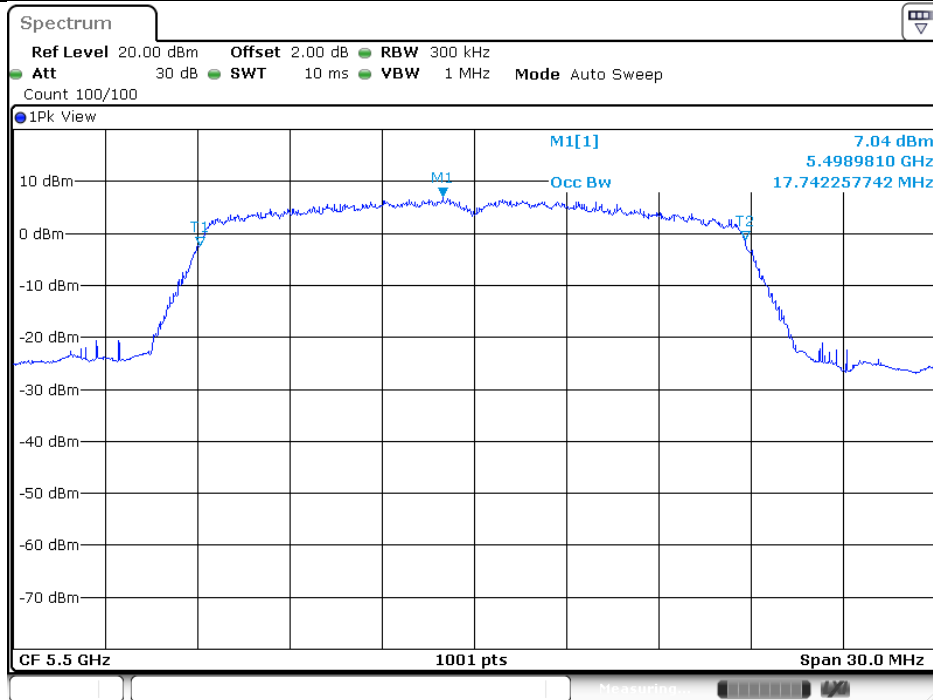
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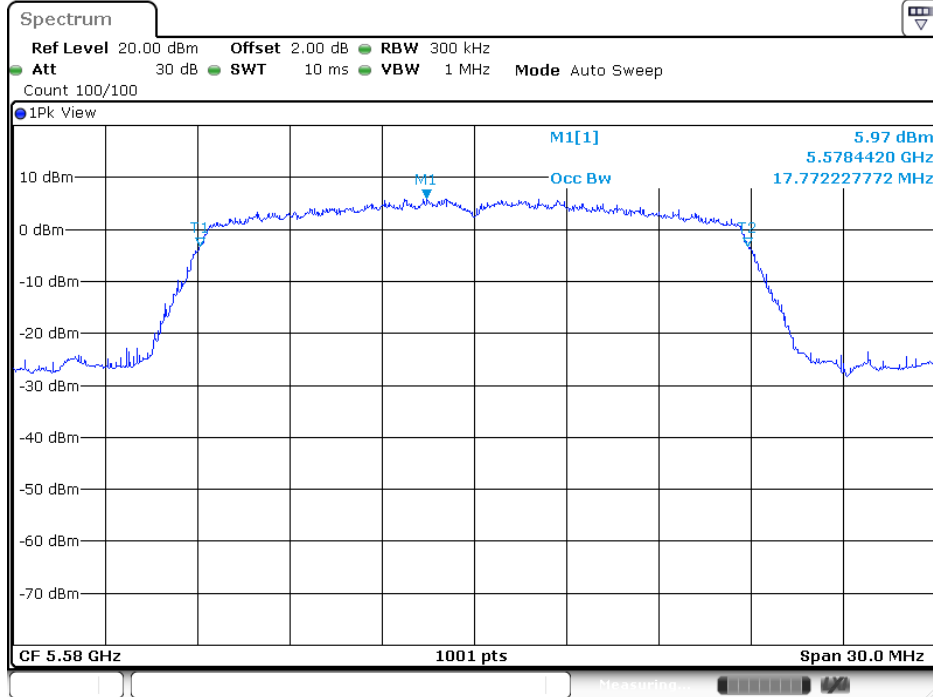
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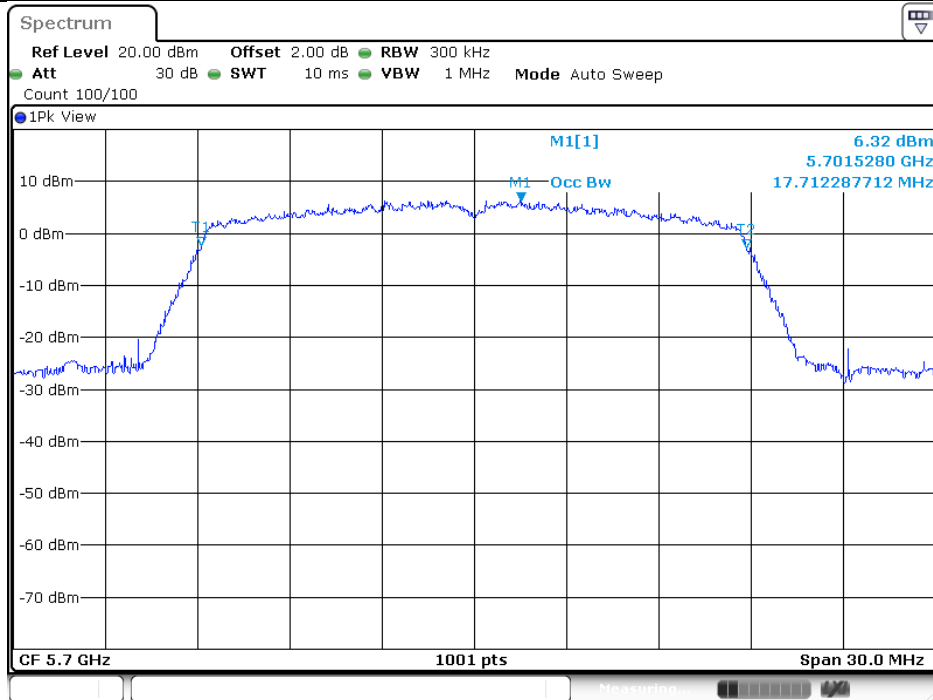
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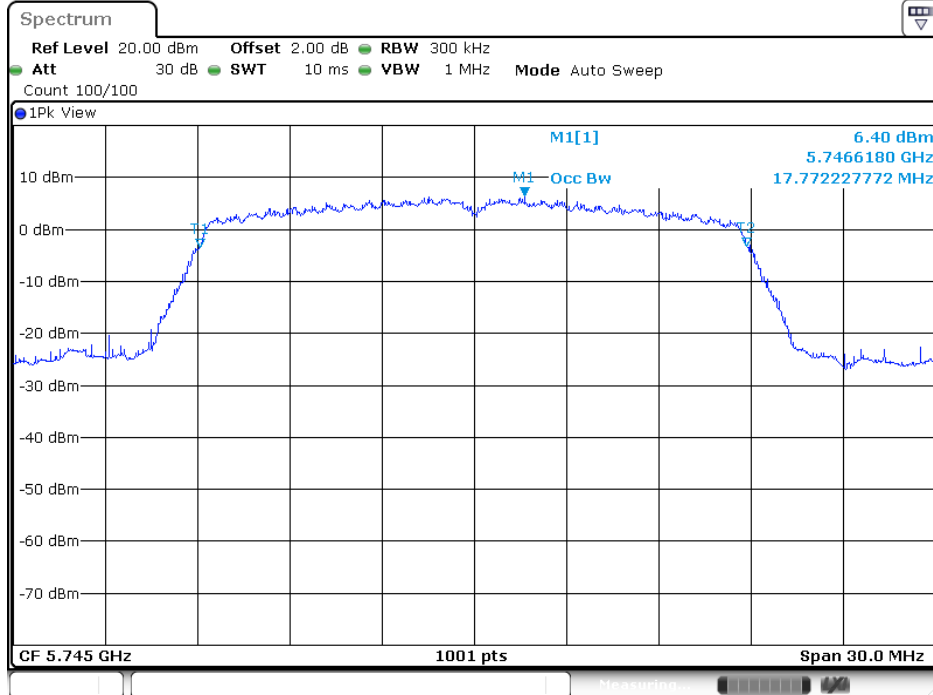
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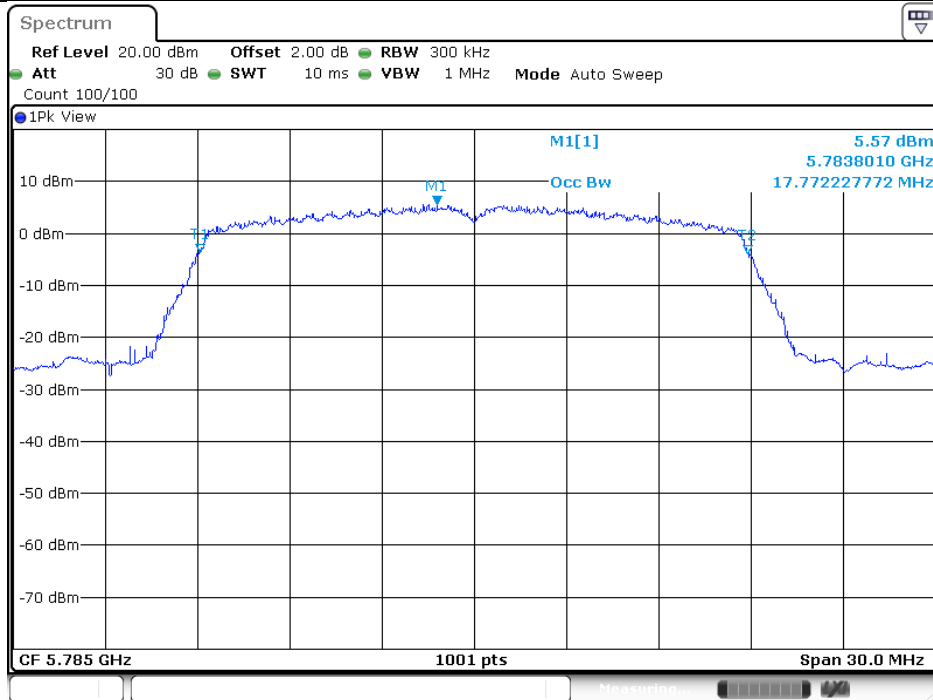
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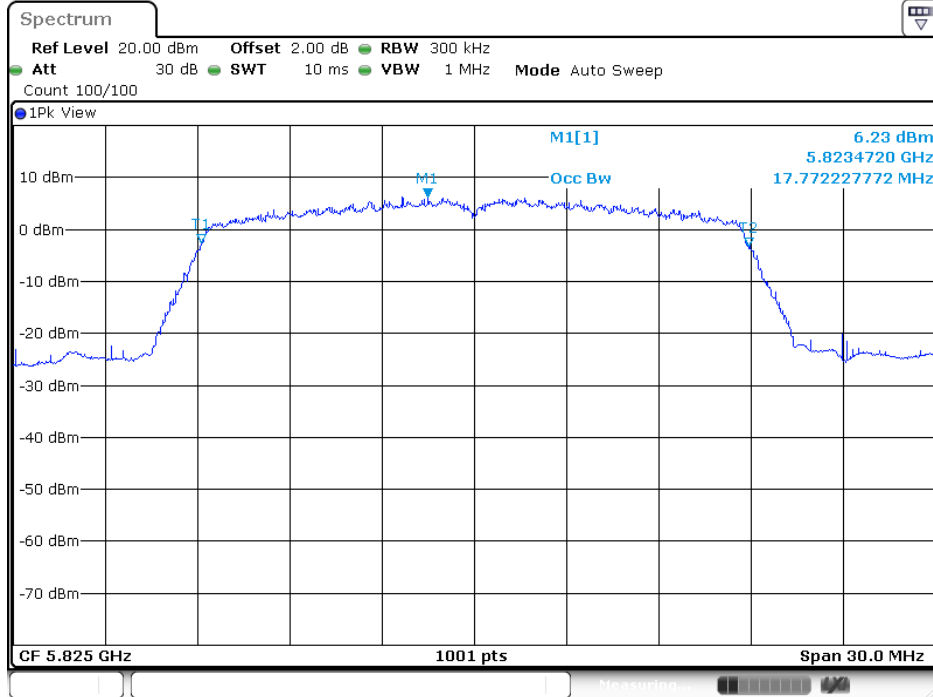
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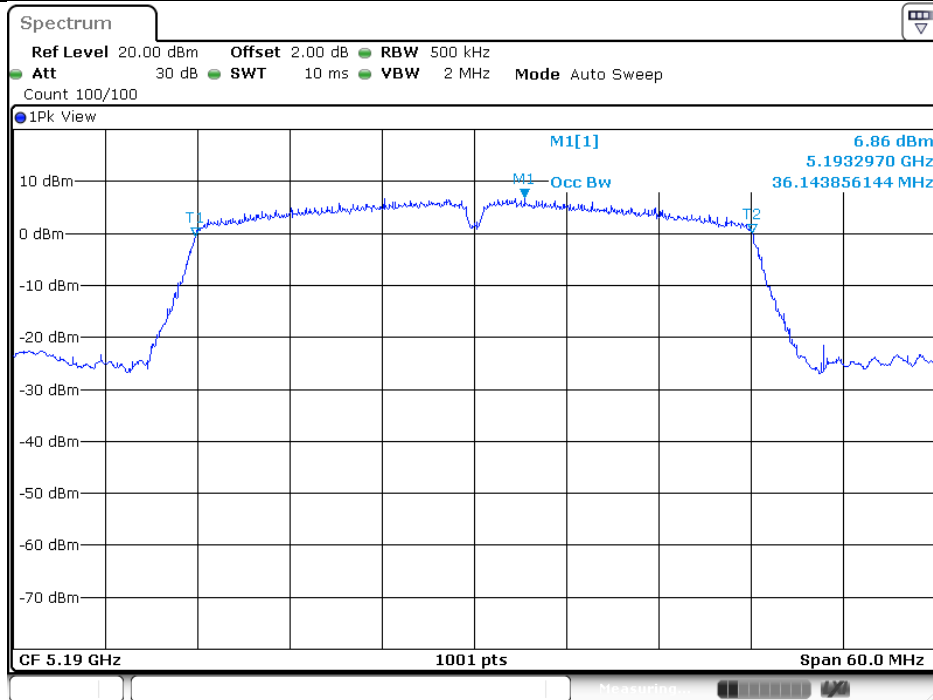
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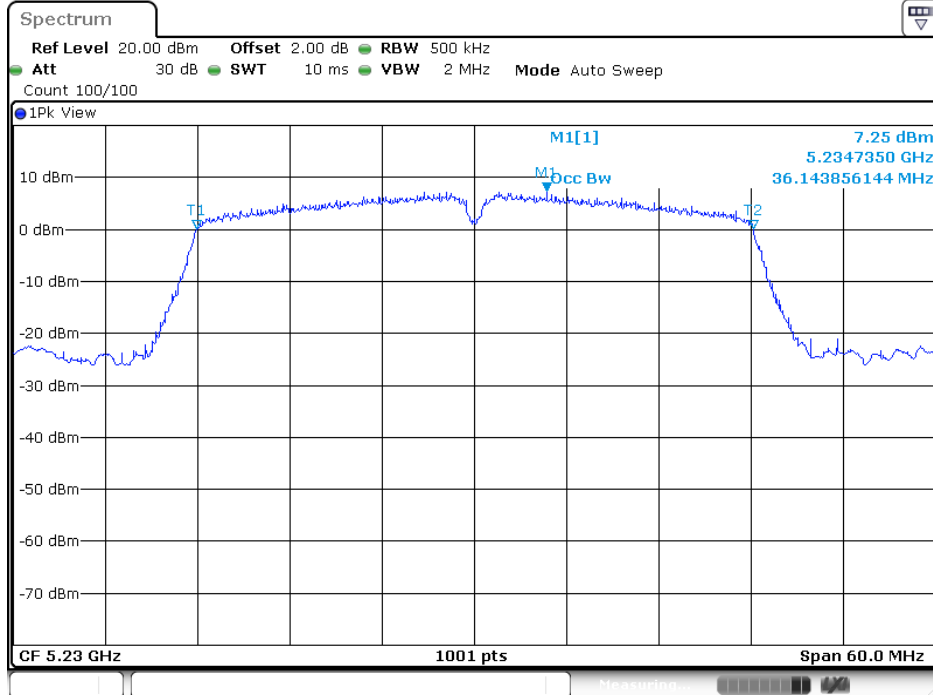
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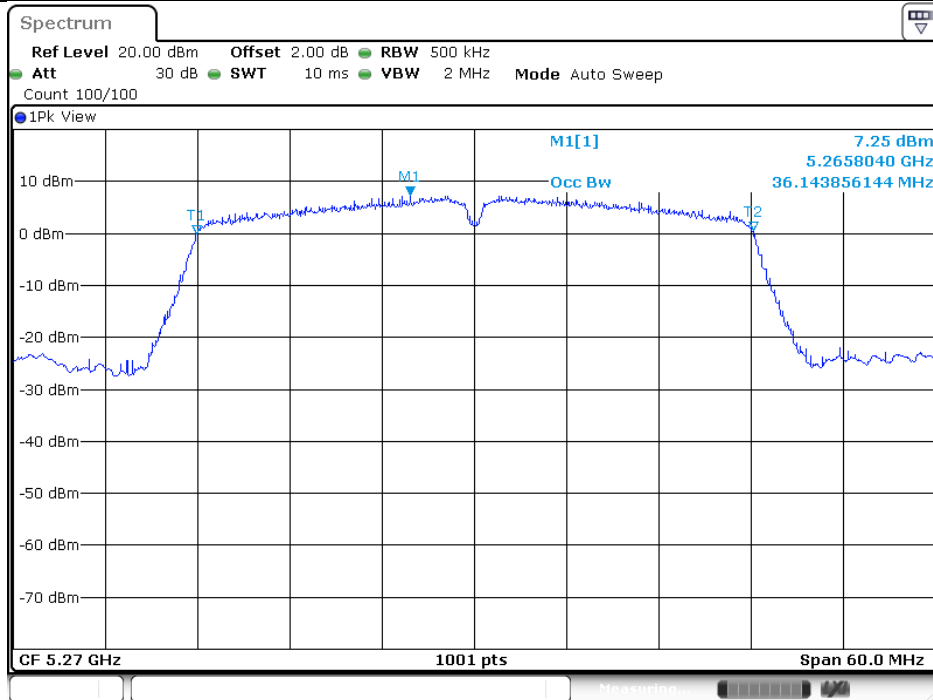
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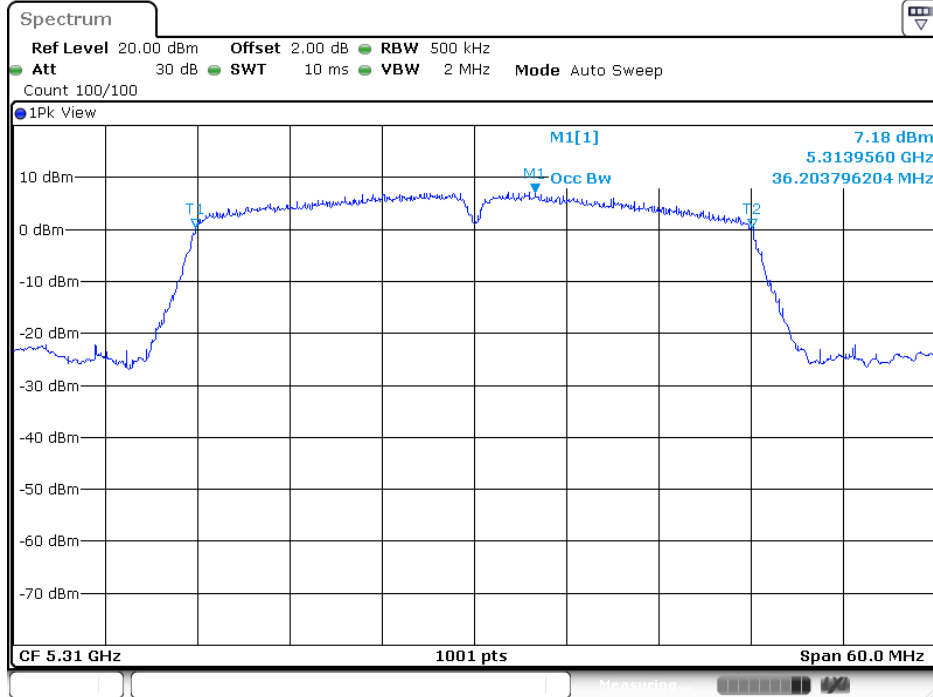
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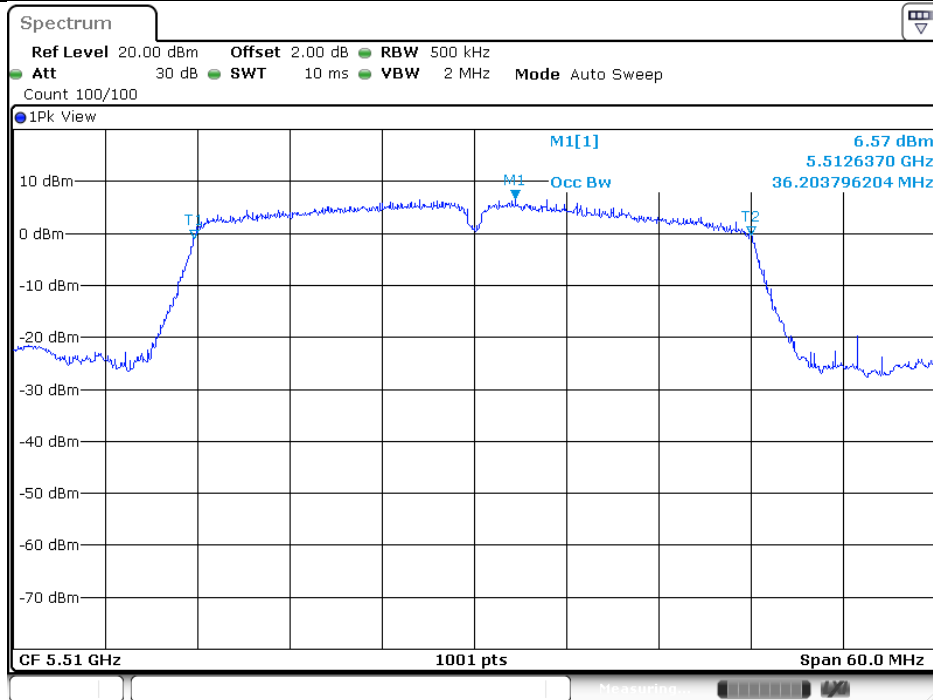
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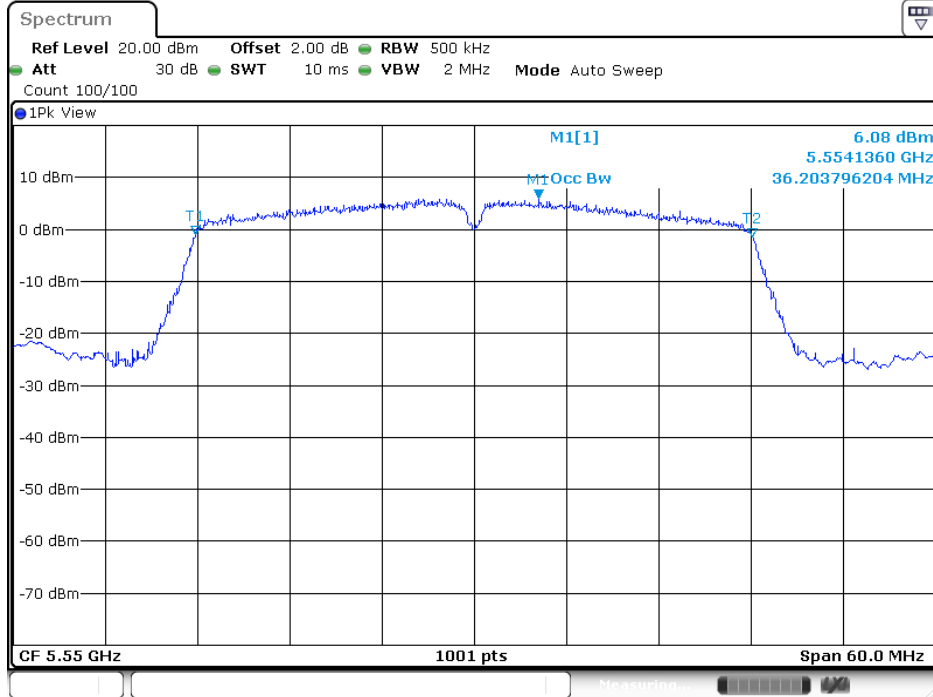
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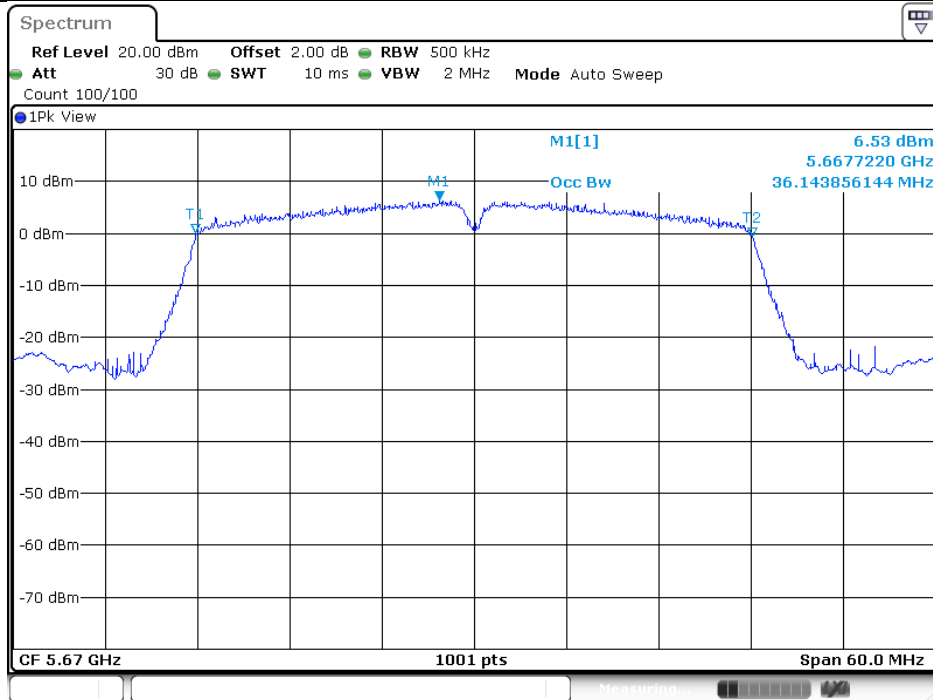
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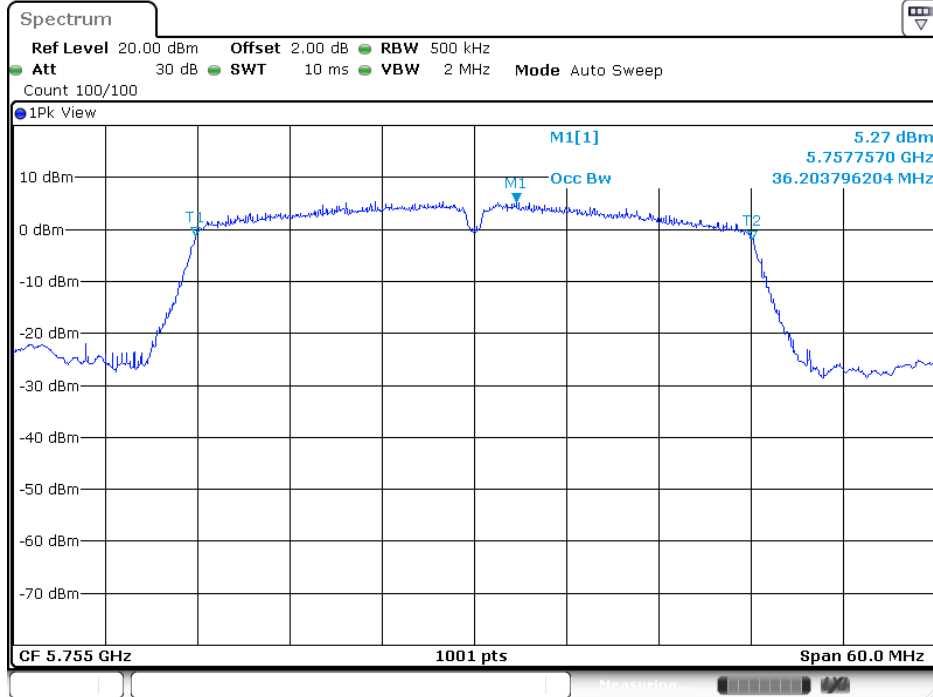
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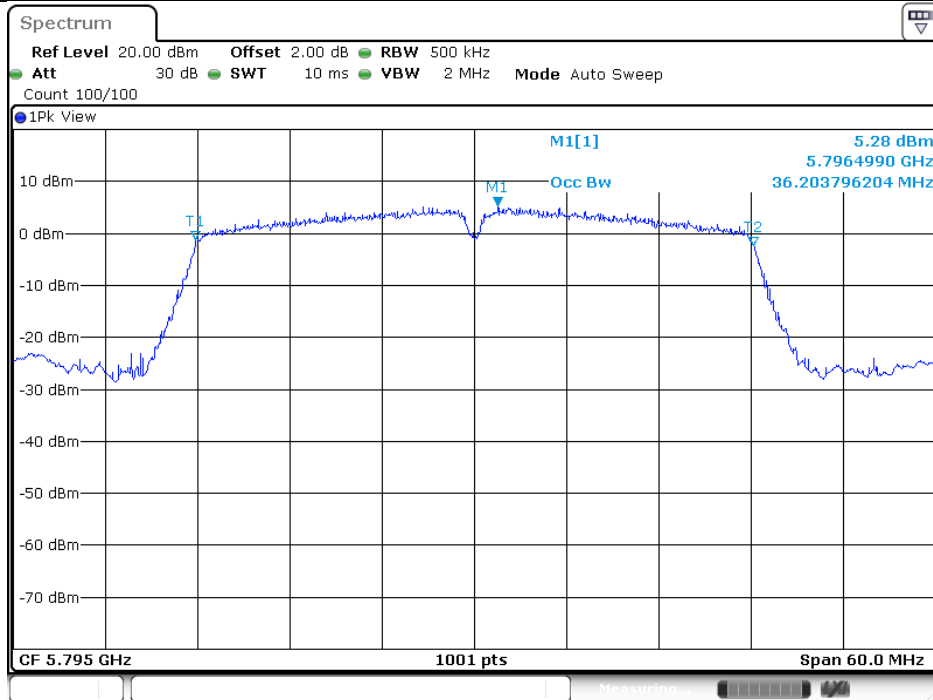
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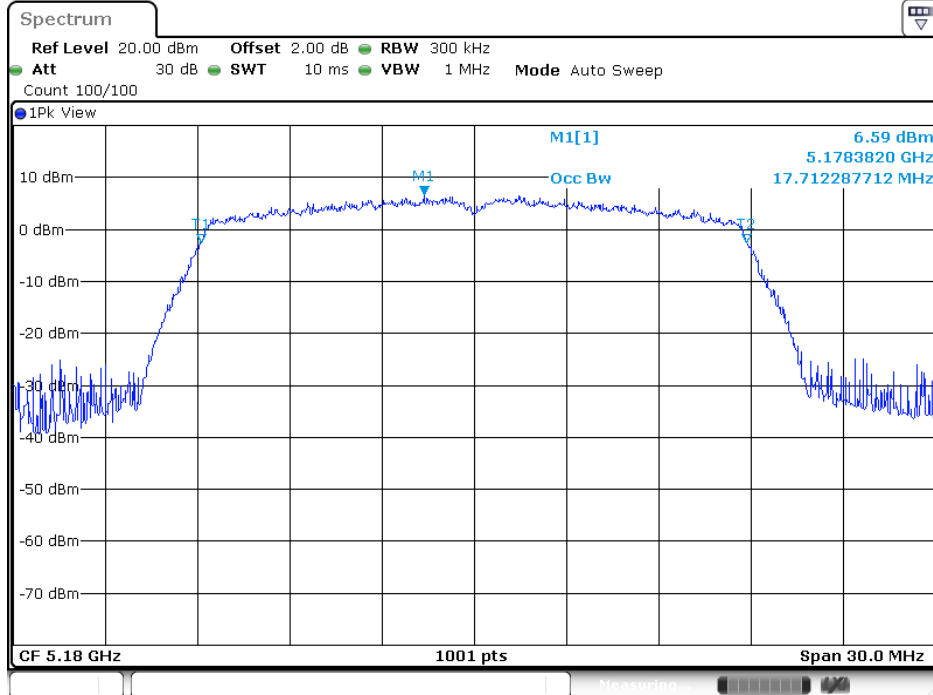
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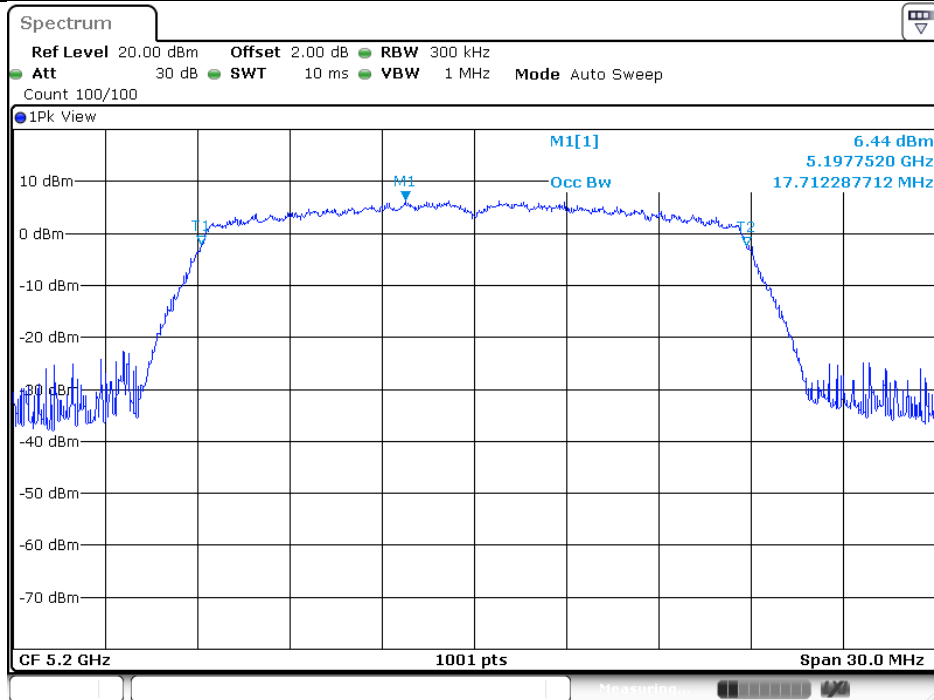
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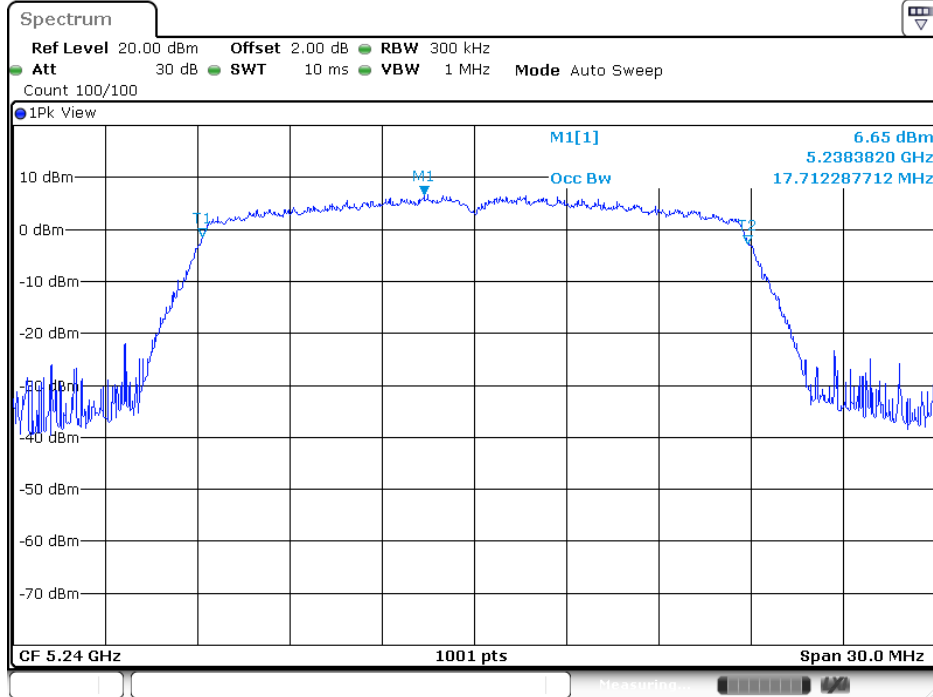
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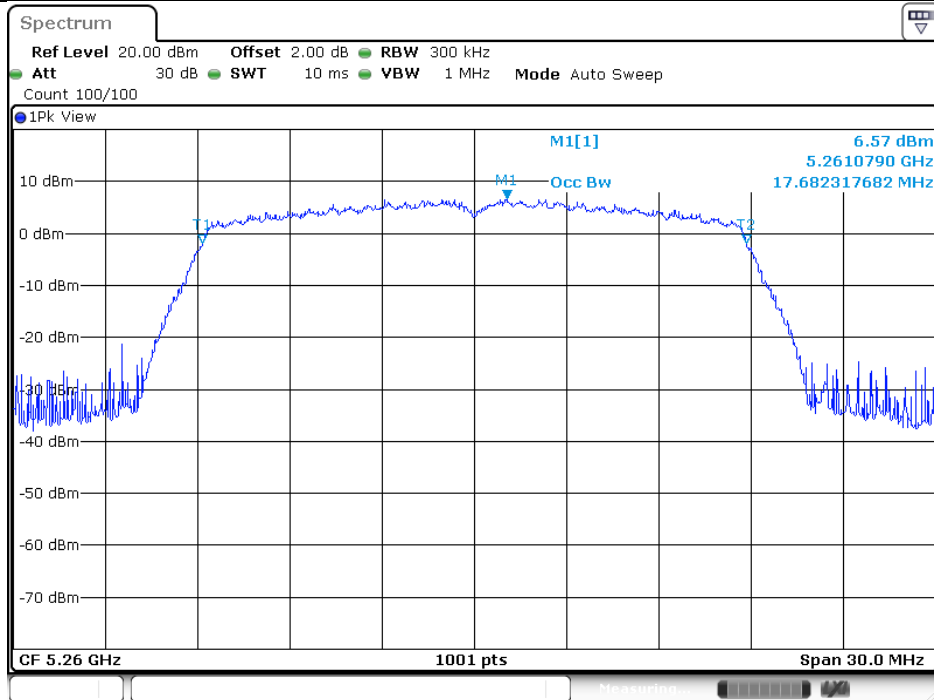
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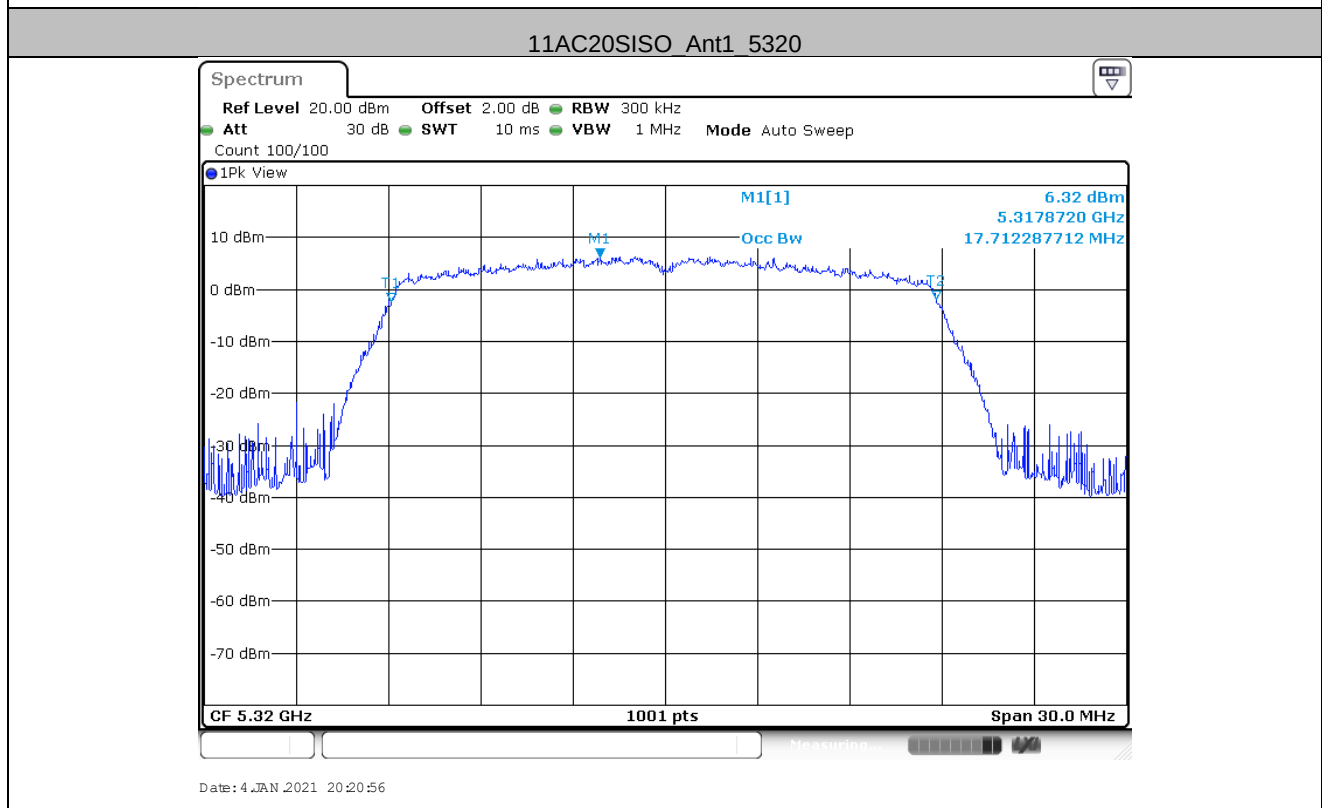
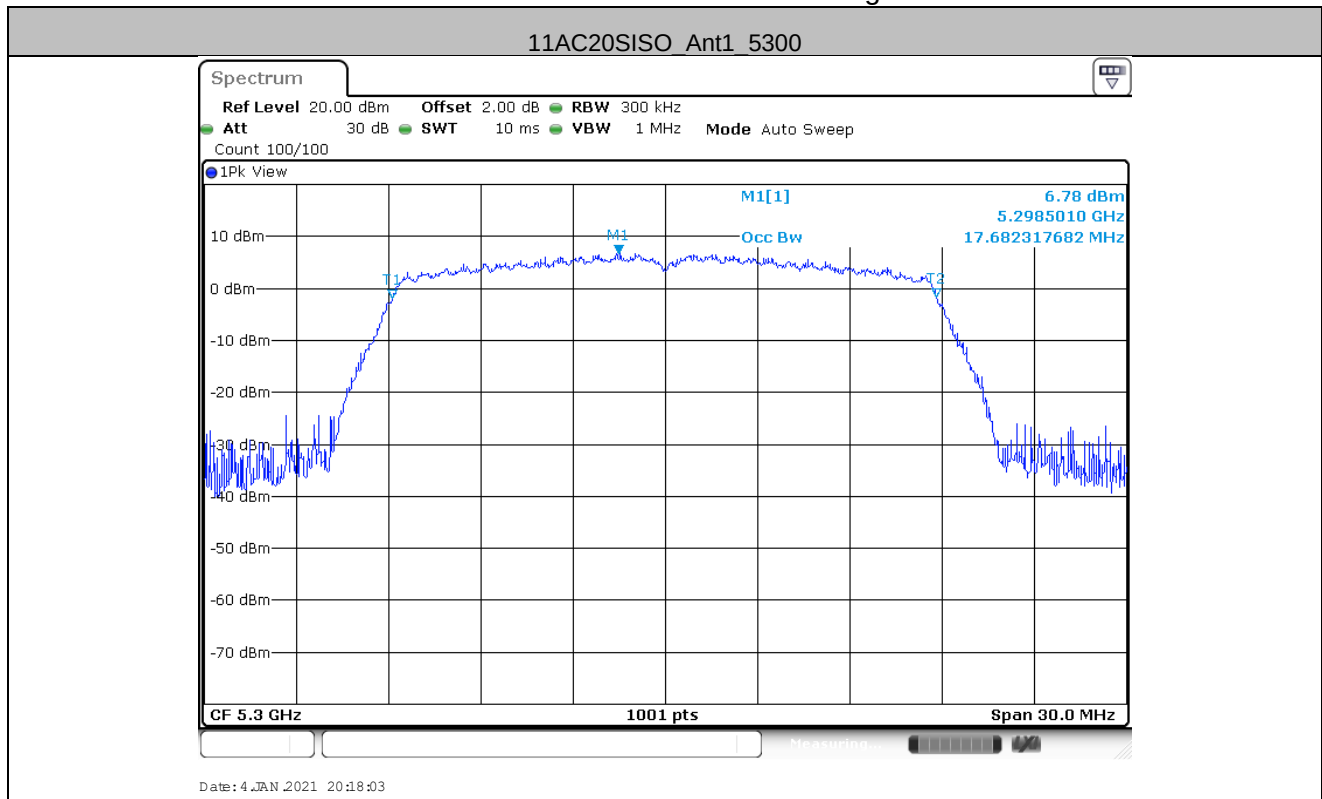


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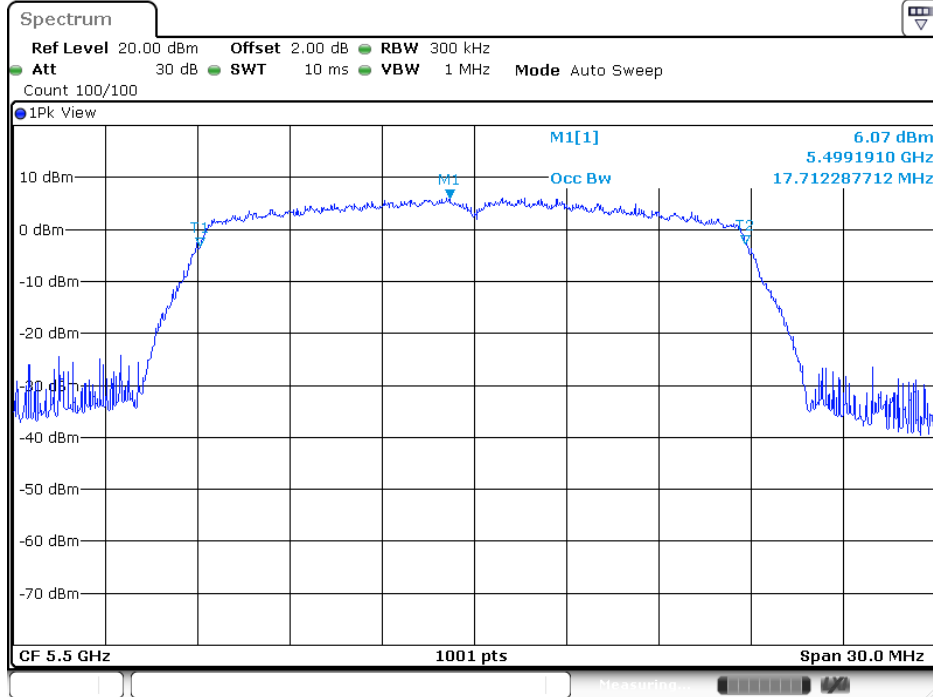
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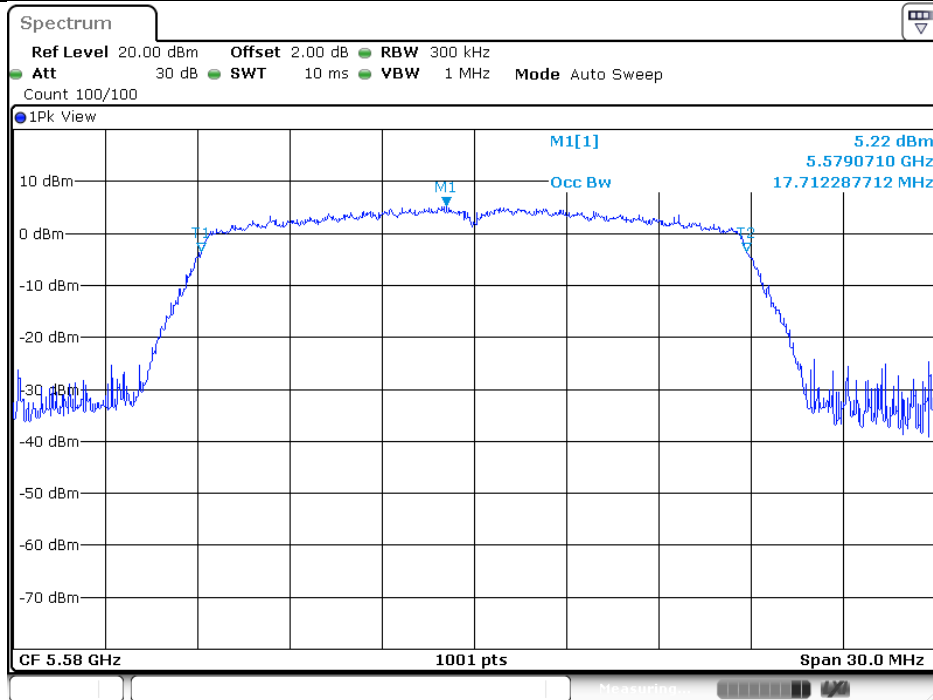
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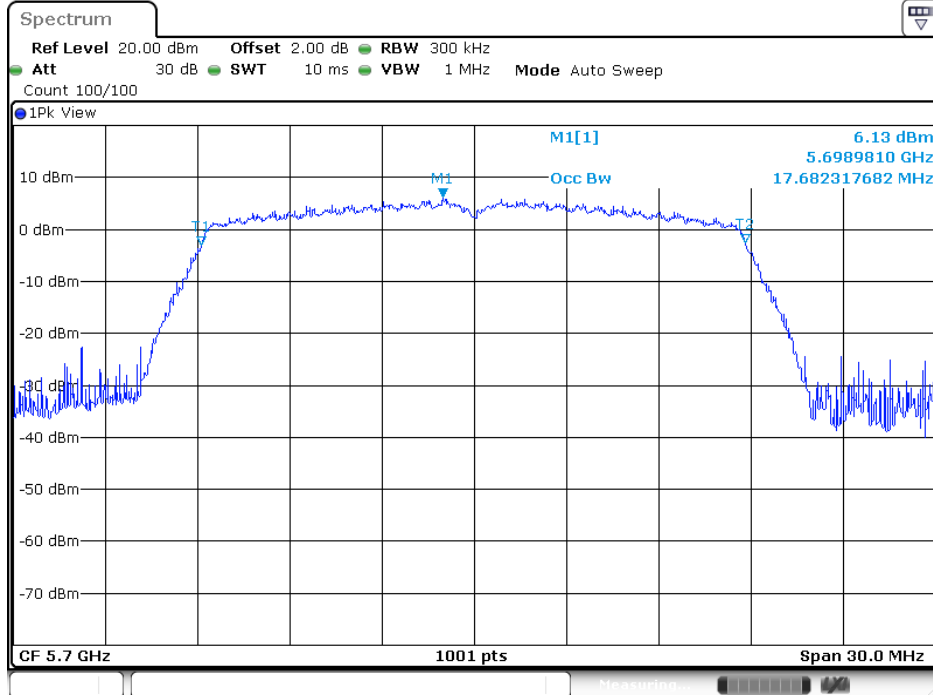
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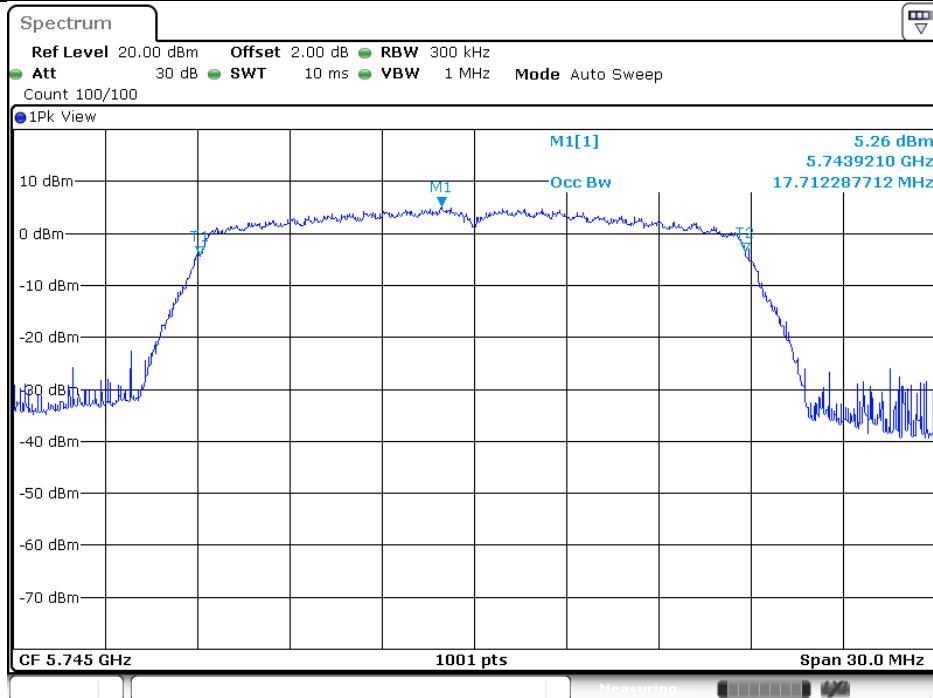
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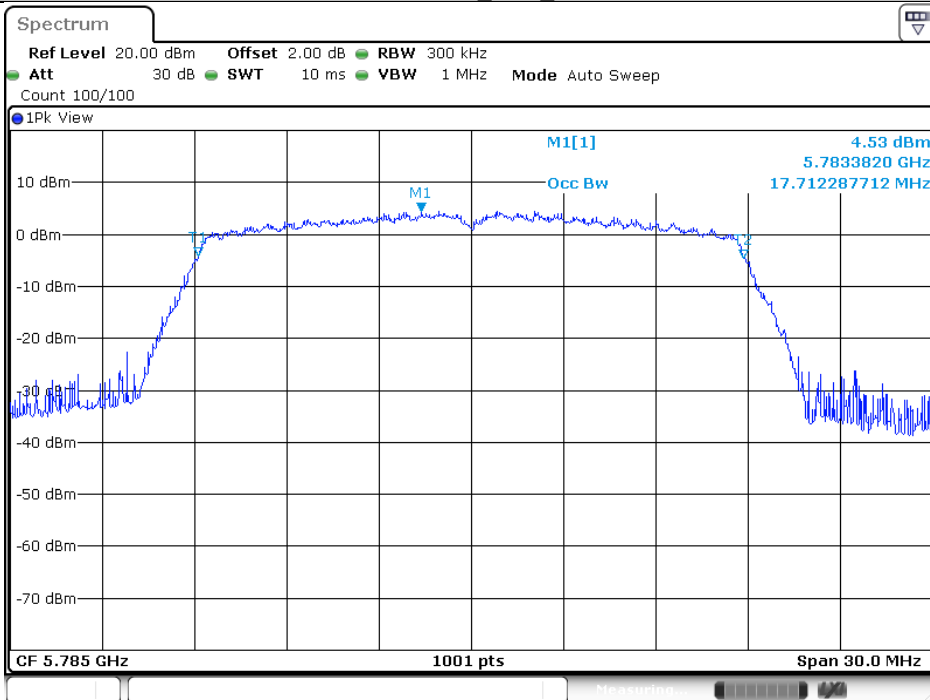
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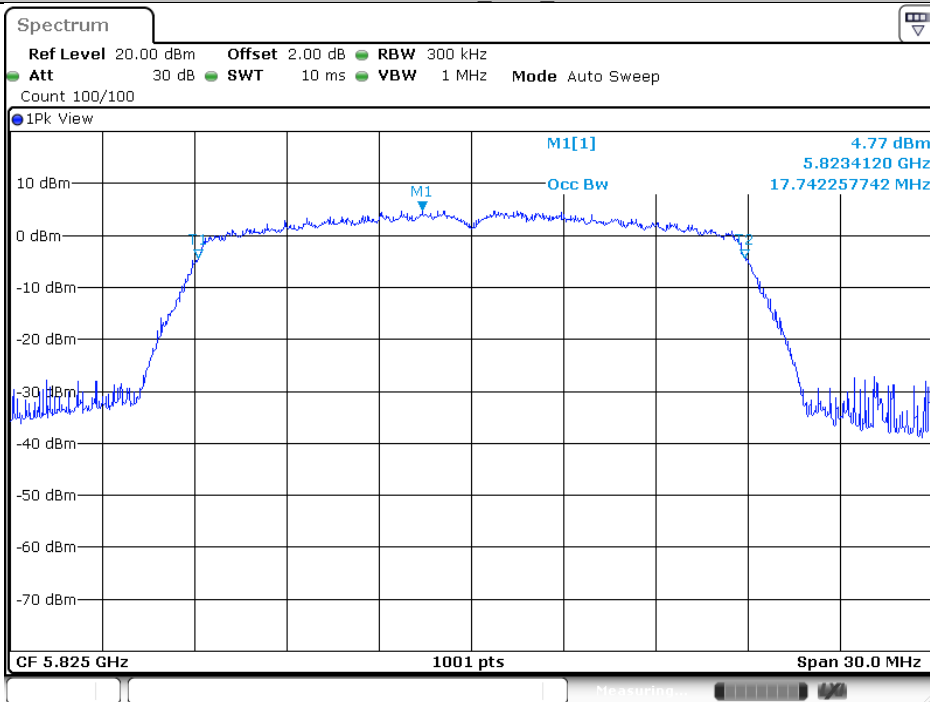
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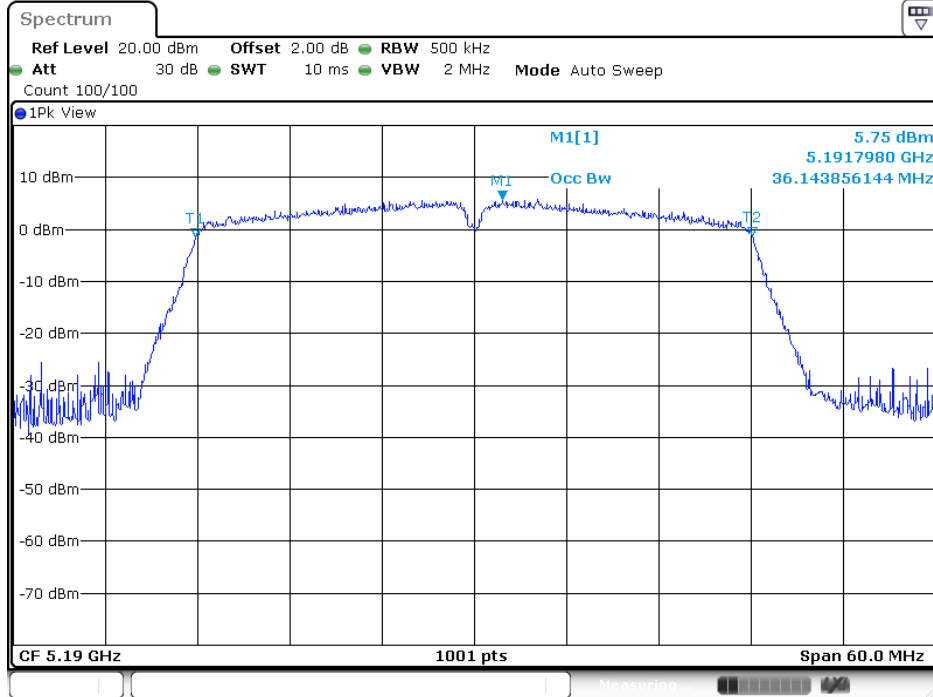
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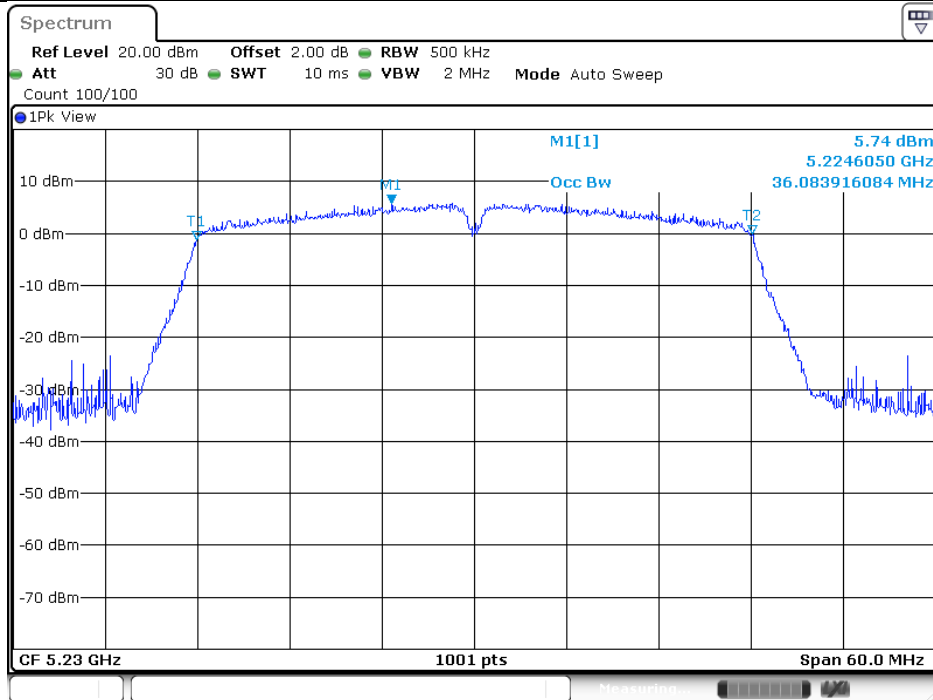
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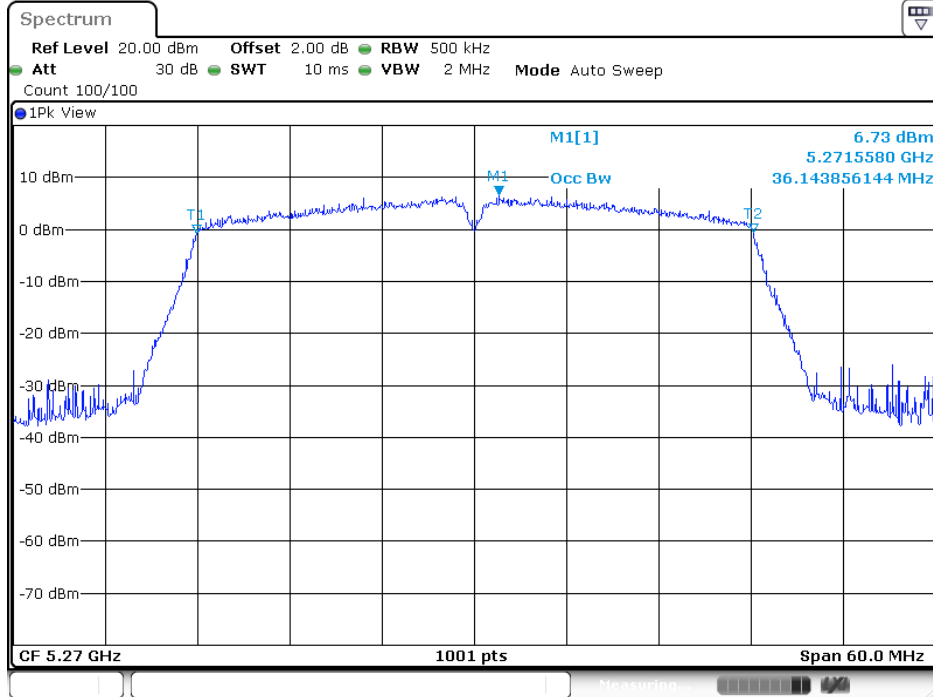
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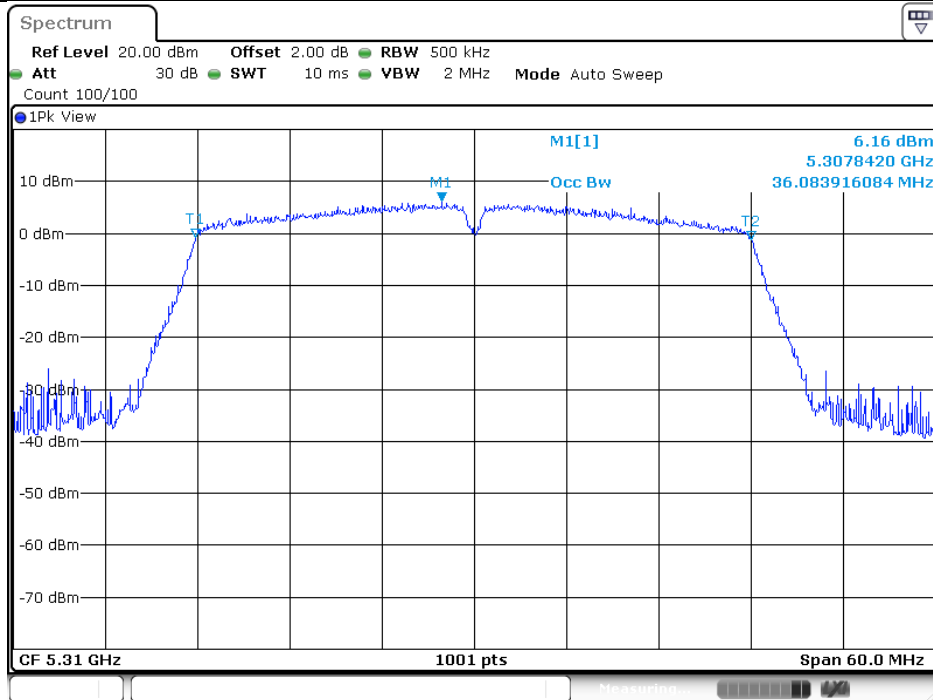
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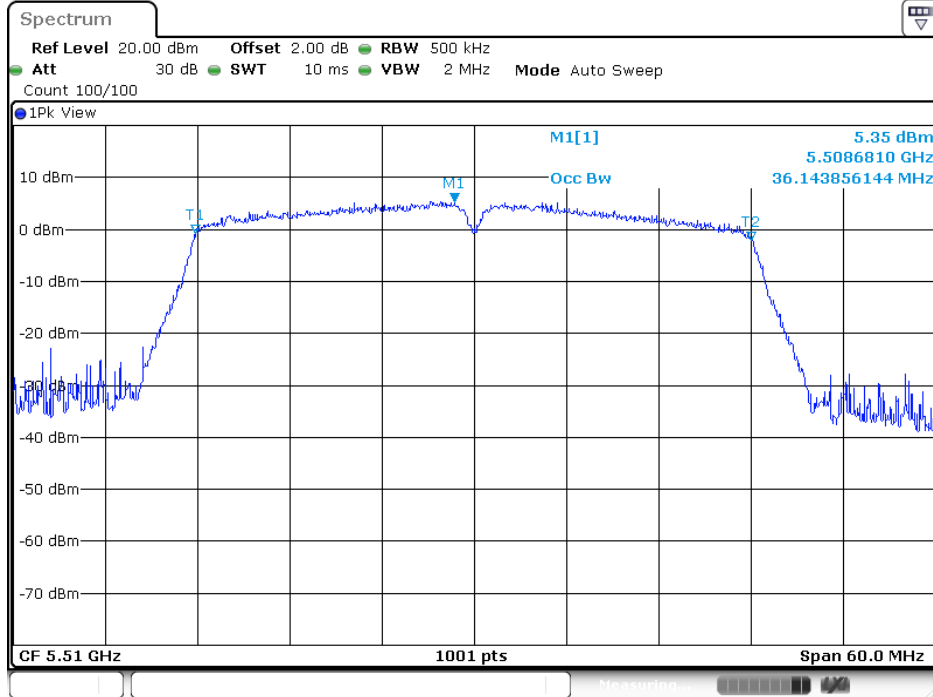
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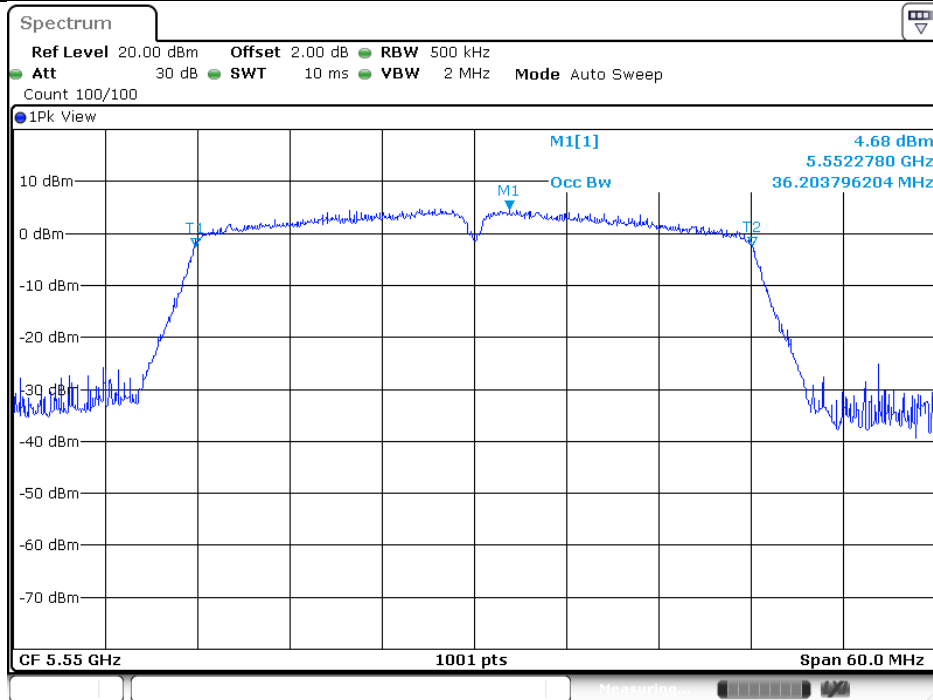
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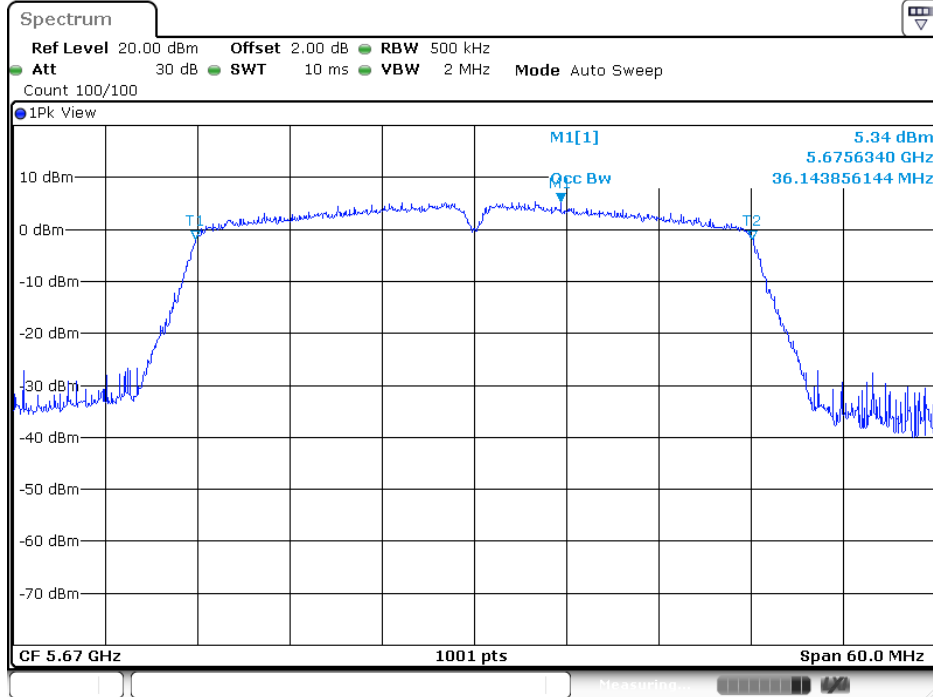
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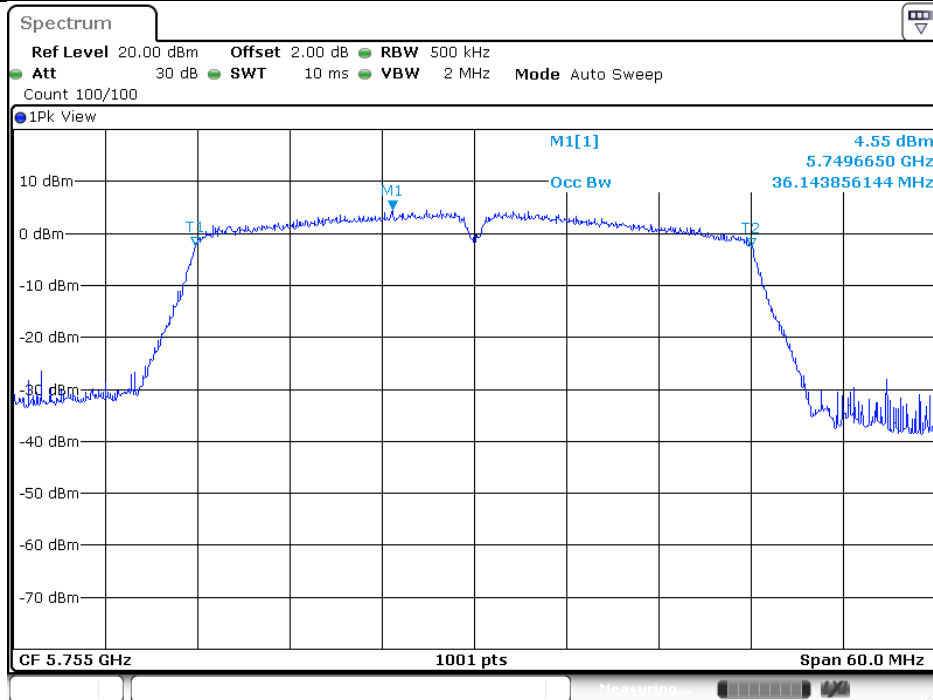
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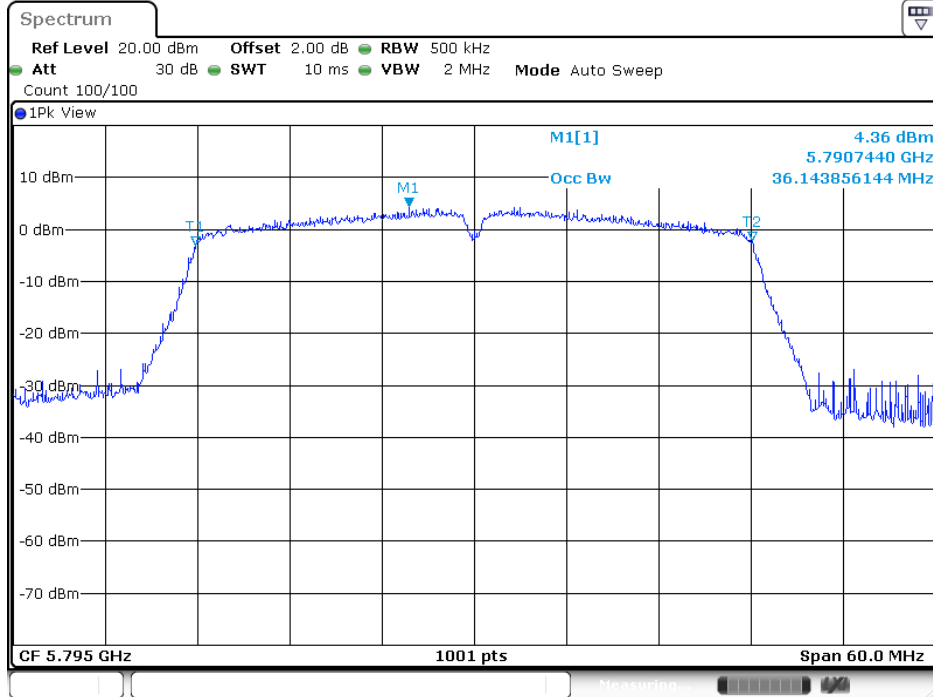
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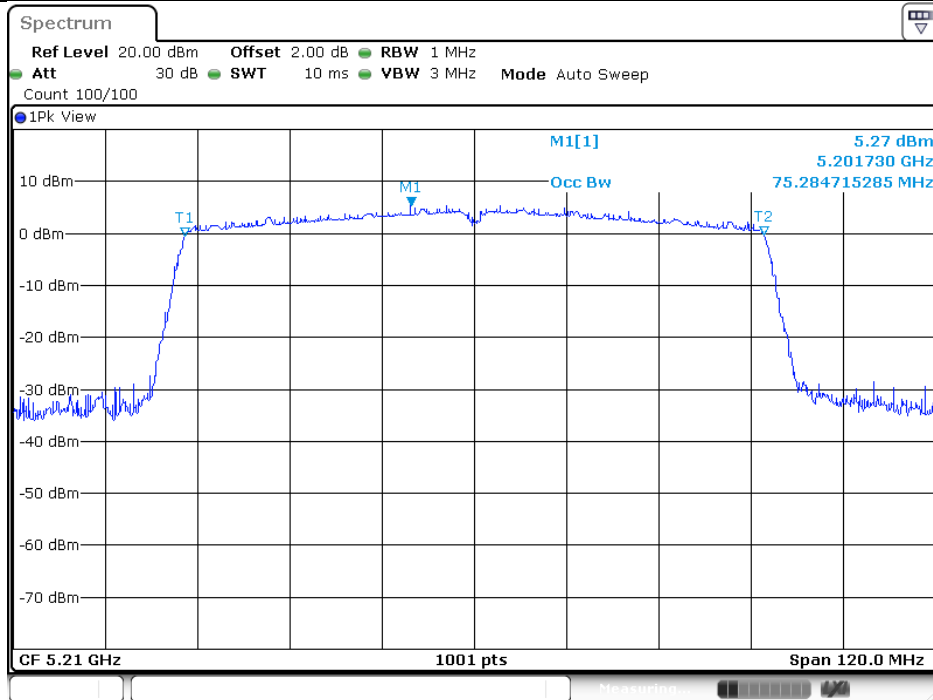
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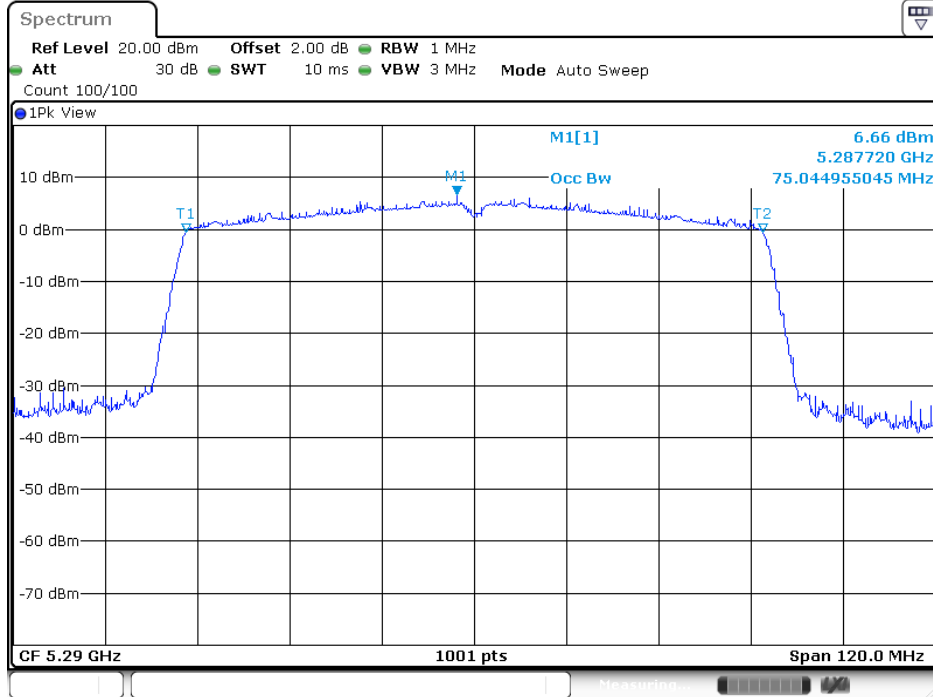
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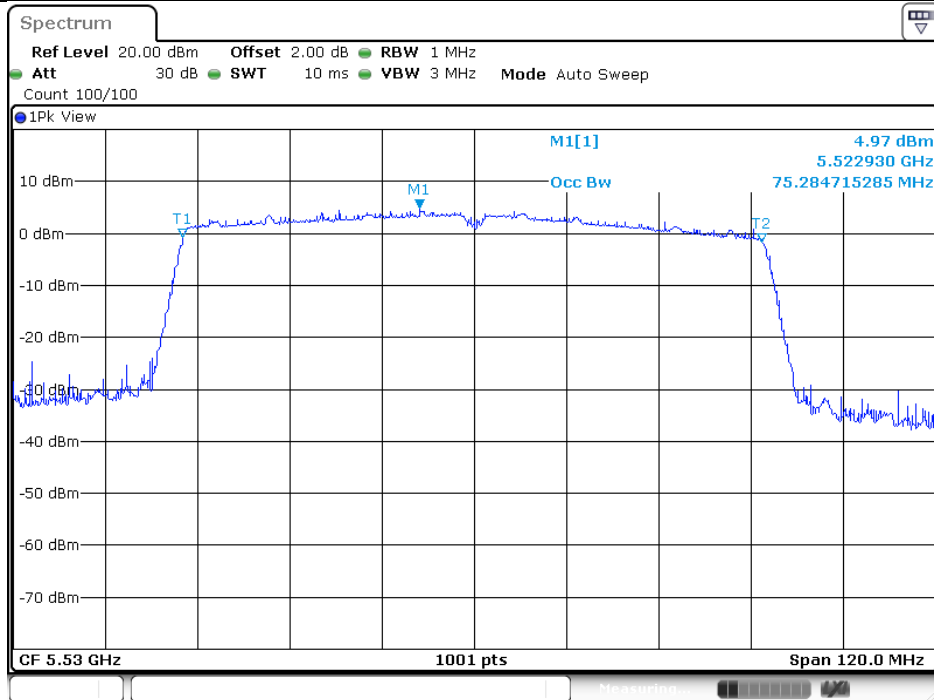
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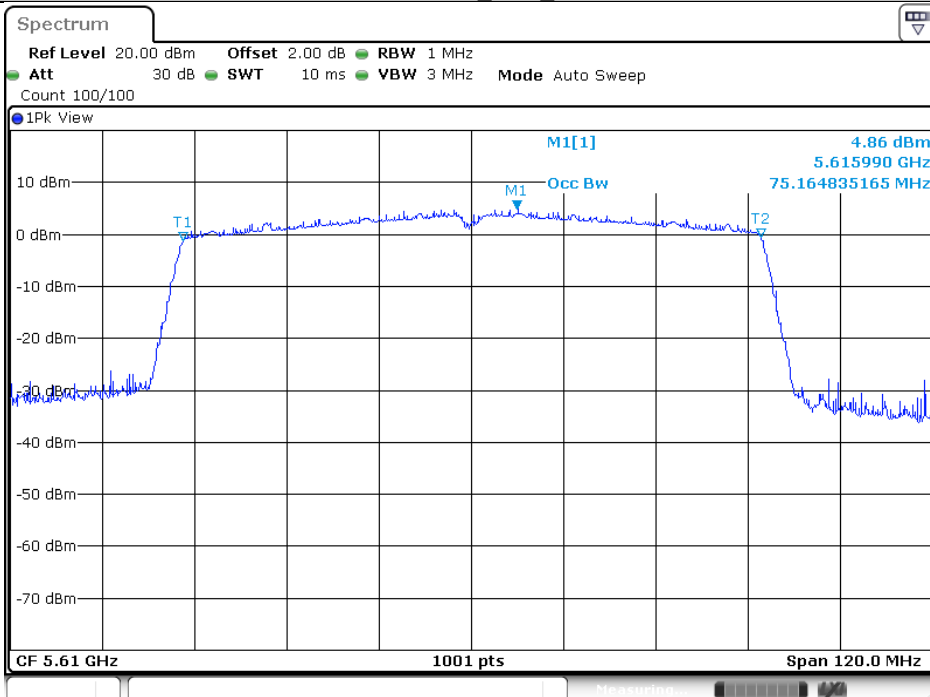
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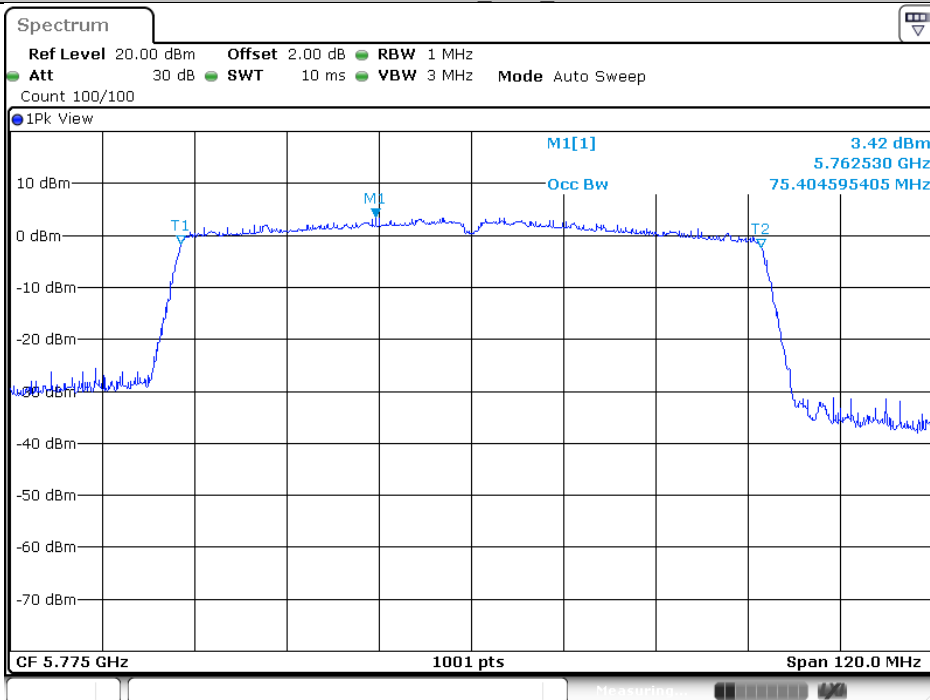
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6dB Emission Bandwidth Test Result

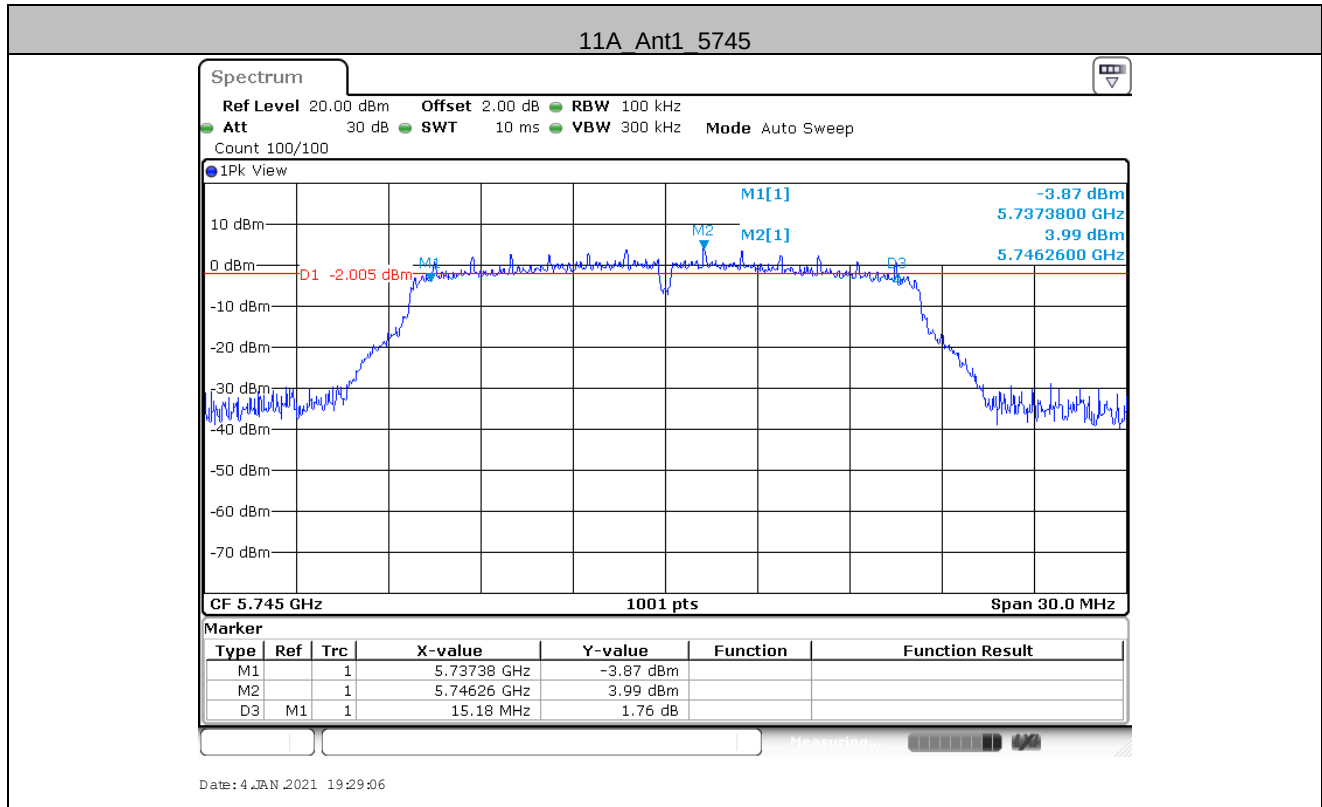
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.180	5737.380	5752.560	0.5	PASS
		5785	15.180	5777.410	5792.590	0.5	PASS
		5825	15.150	5817.410	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.360	5737.200	5752.560	0.5	PASS
		5785	15.180	5777.380	5792.560	0.5	PASS
		5825	15.180	5817.410	5832.590	0.5	PASS
11N40SISO	Ant1	5755	35.220	5737.360	5772.580	0.5	PASS
		5795	35.280	5777.360	5812.640	0.5	PASS
11AC20SISO	Ant1	5745	15.180	5737.380	5752.560	0.5	PASS
		5785	15.150	5777.410	5792.560	0.5	PASS
		5825	15.180	5817.410	5832.590	0.5	PASS
11AC40SISO	Ant1	5755	35.220	5737.360	5772.580	0.5	PASS
		5795	35.220	5777.360	5812.580	0.5	PASS
11AC80SISO	Ant1	5775	75.360	5737.320	5812.680	0.5	PASS



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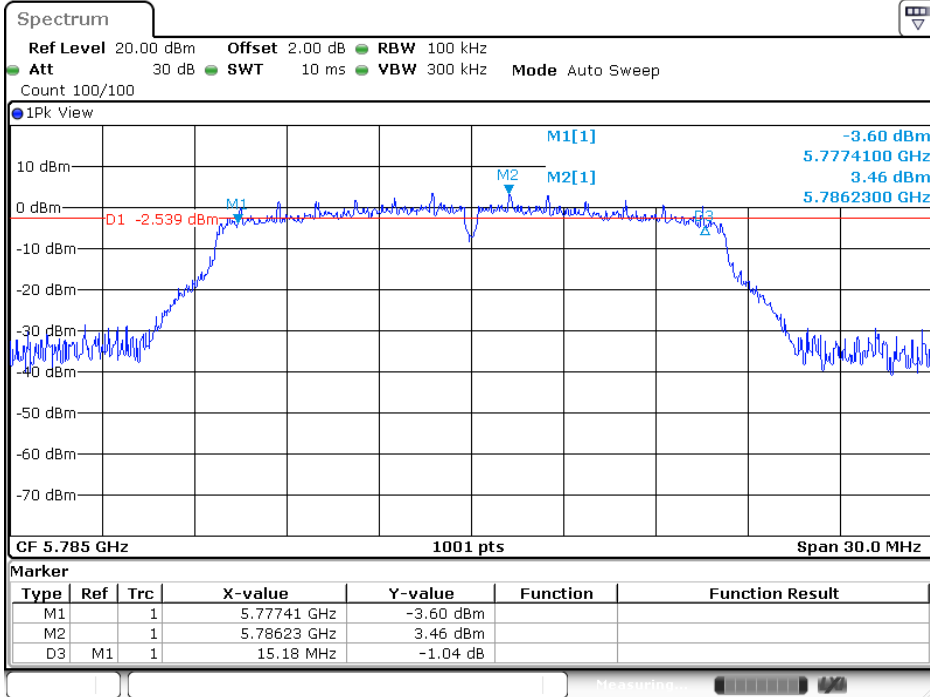
Test Graphs



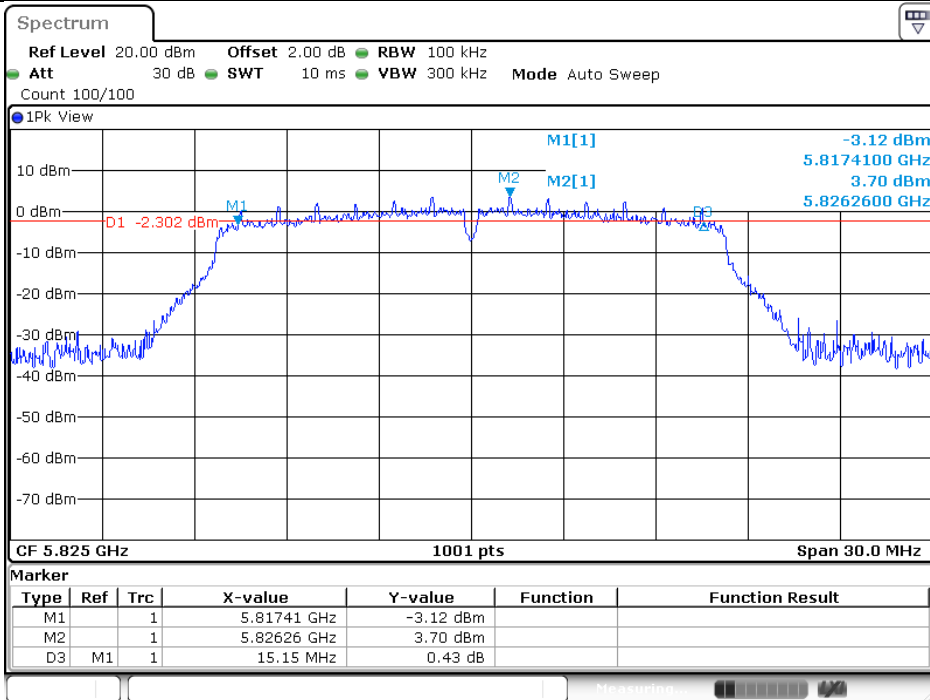
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11A Ant1 5785



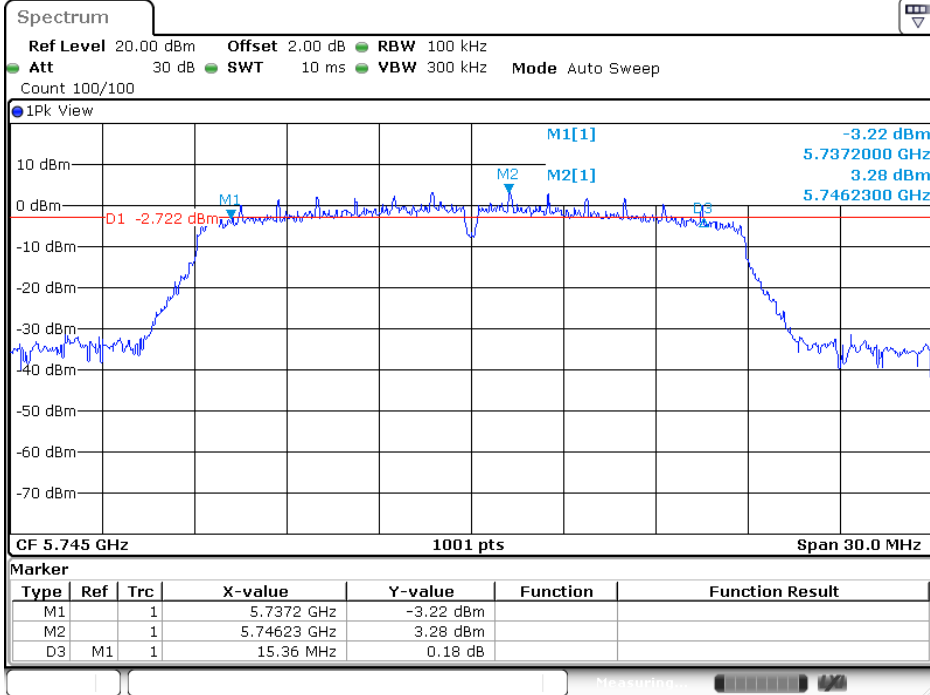
11A Ant1 5825



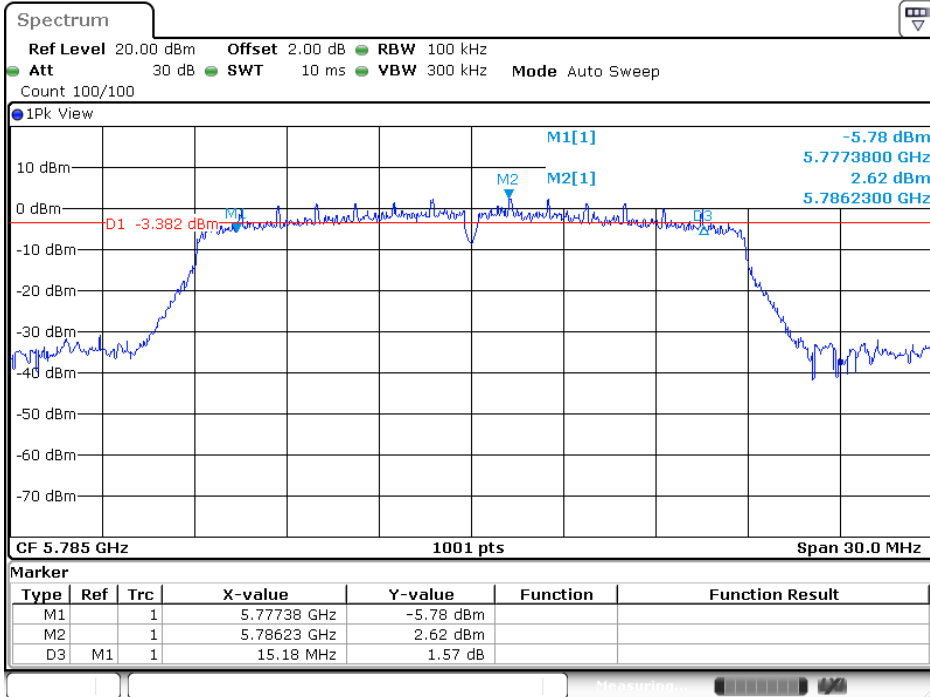
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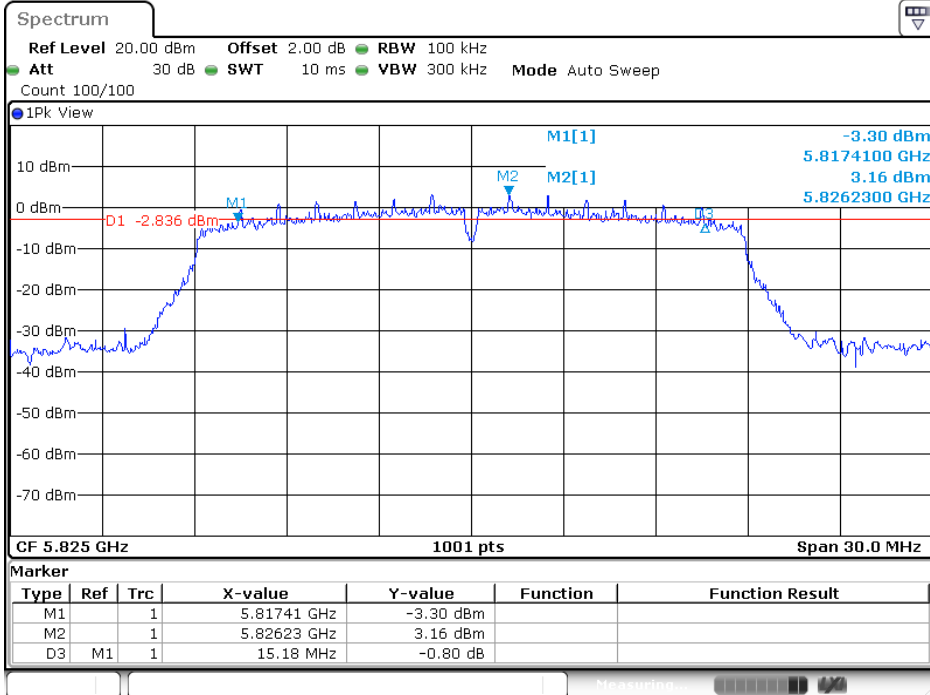
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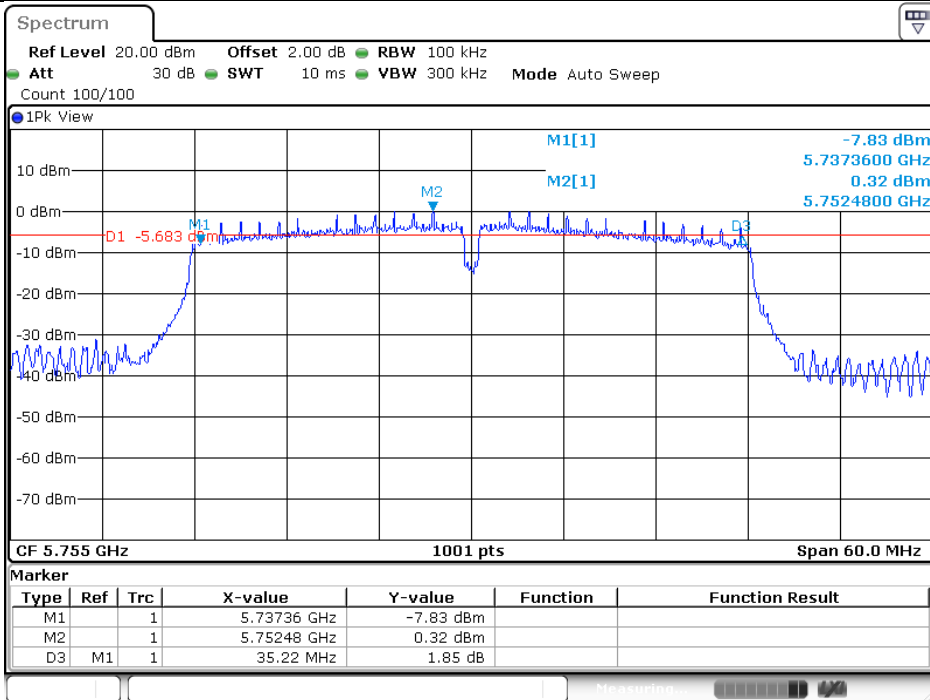
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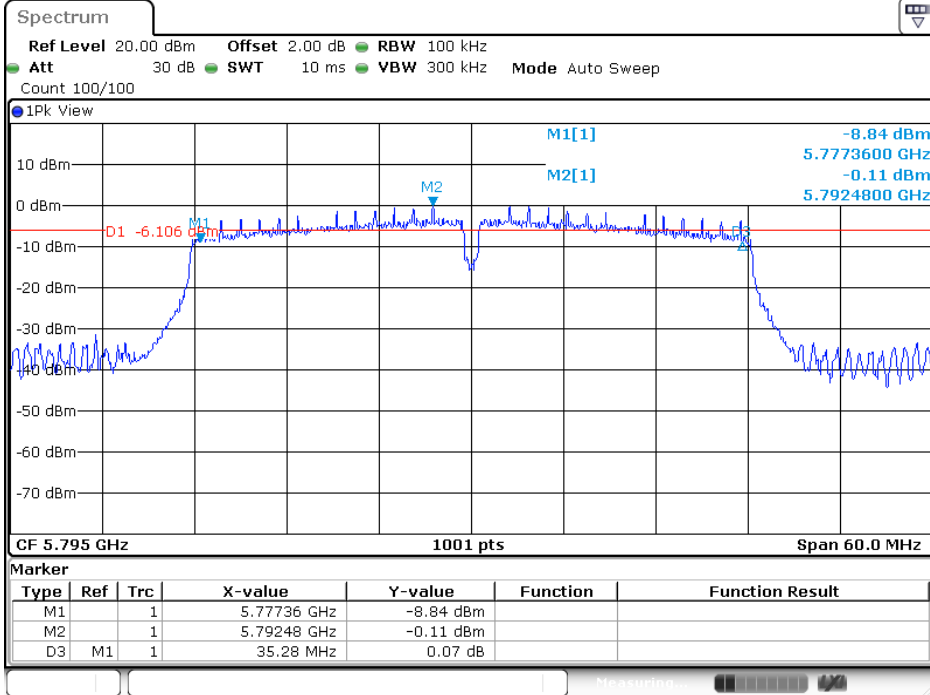
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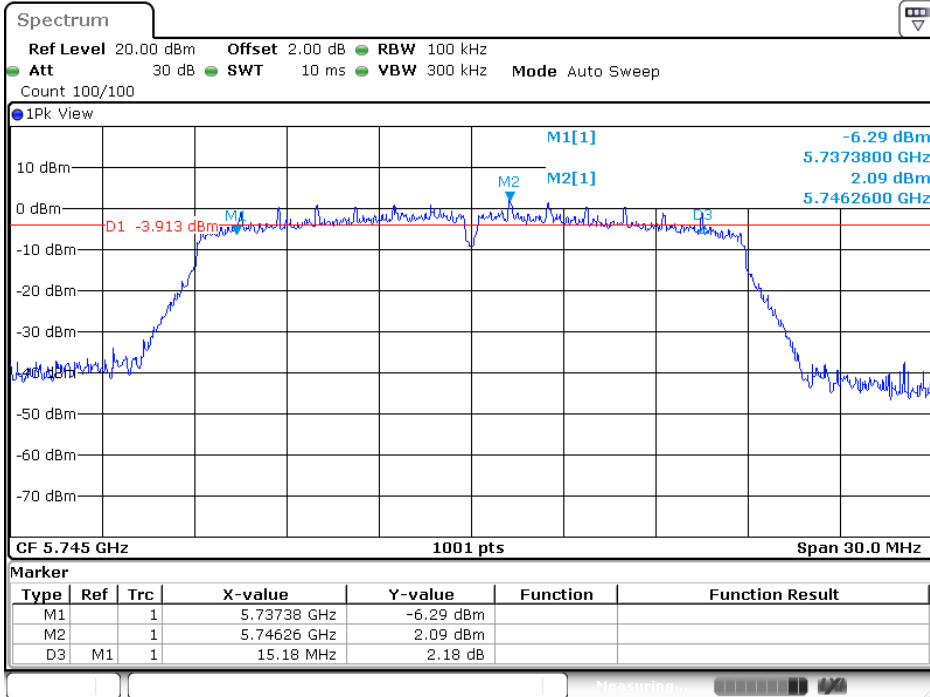
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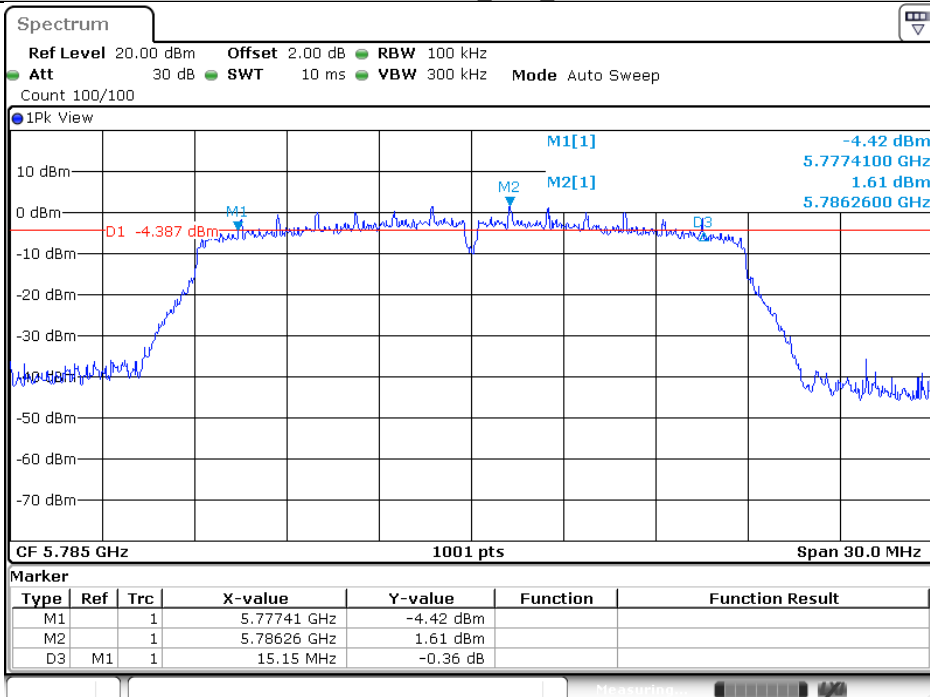
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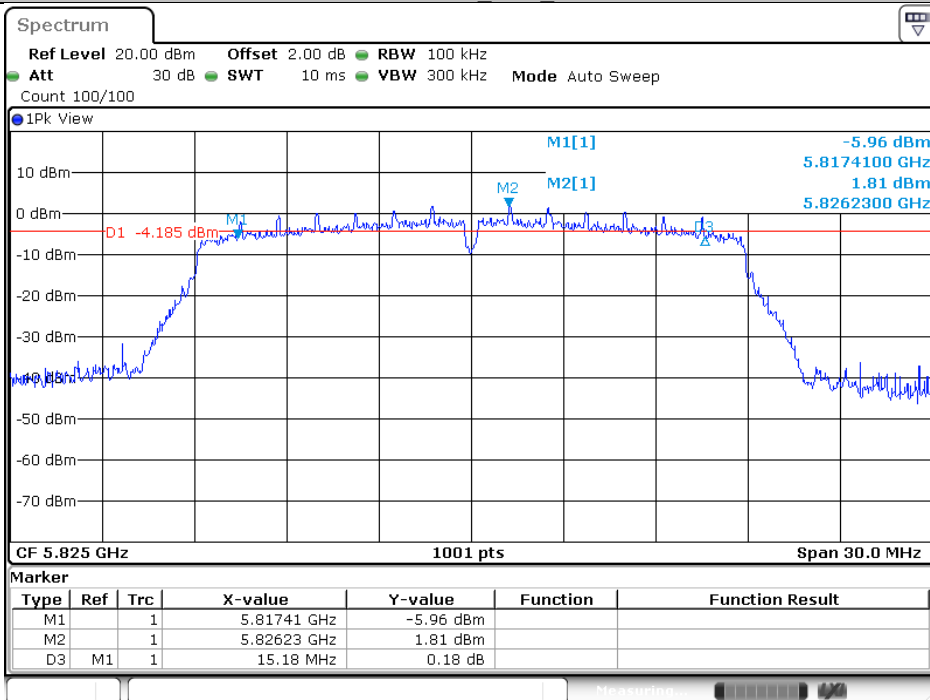
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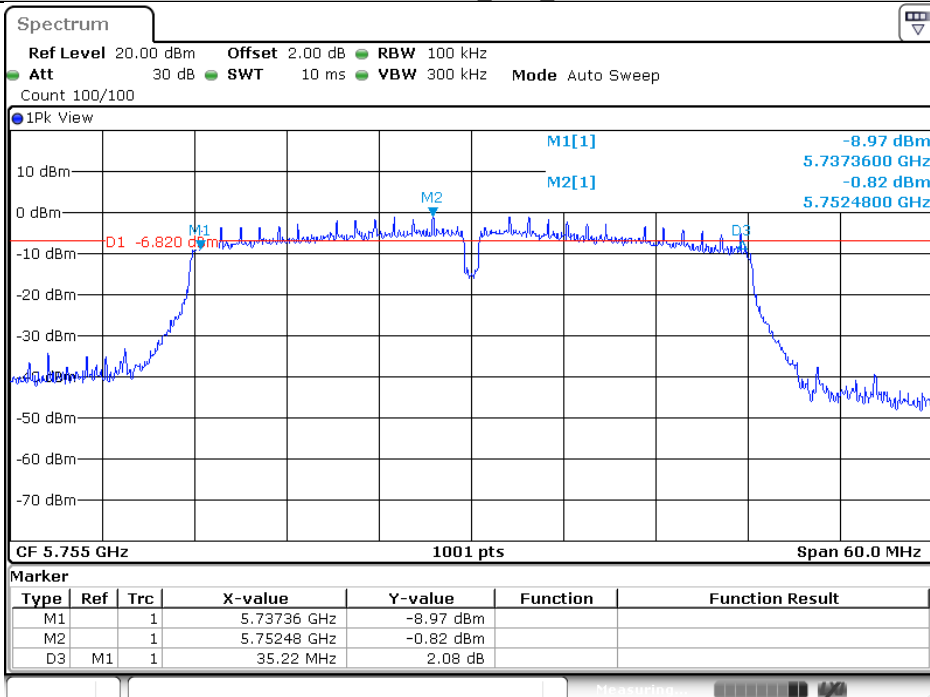
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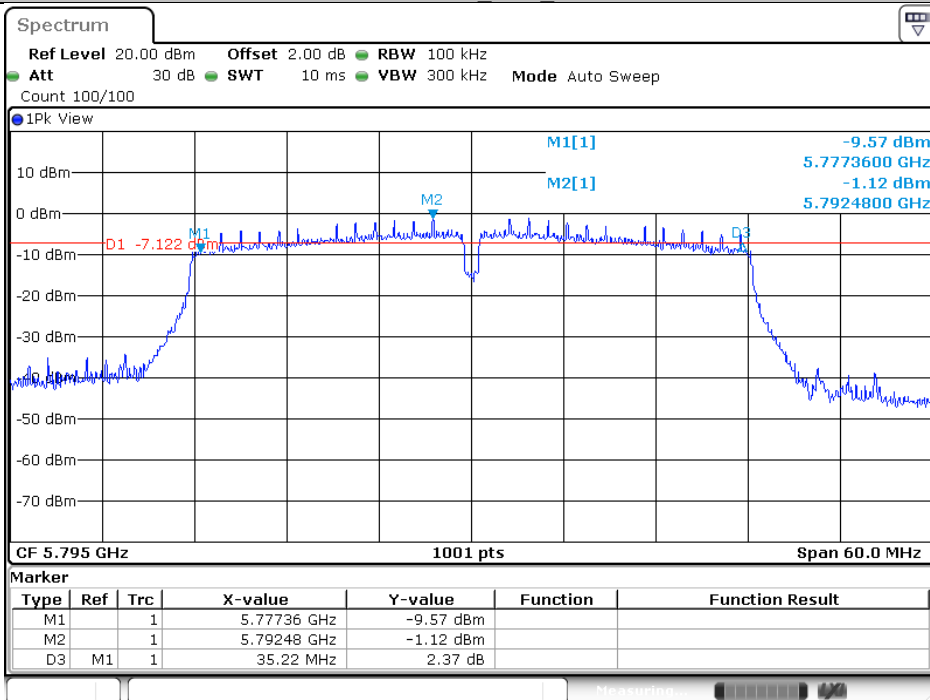
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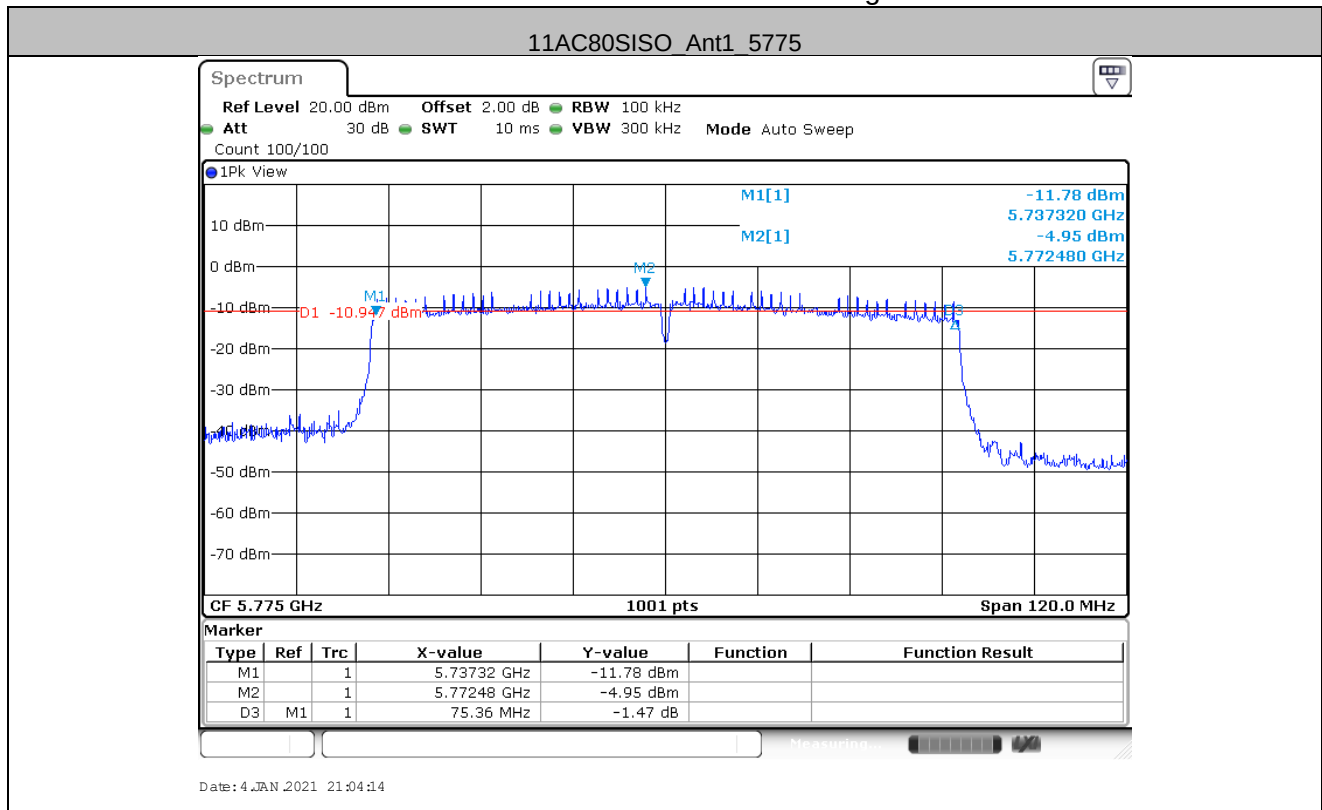


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Maximum conducted output power
Test Result

TestMode	Antenna	Channel	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP.) [dBm]	Verdict
11A	Ant1	5180	15.67	18.99	PASS
		5200	15.63	18.95	PASS
		5240	15.98	19.3	PASS
		5260	16.15	19.47	PASS
		5300	16.19	19.51	PASS
		5320	15.91	19.23	PASS
		5500	15.49	18.81	PASS
		5580	14.76	18.08	PASS
		5700	15.23	18.55	PASS
		5745	14.55	17.87	PASS
		5785	14.12	17.44	PASS
		5825	14.36	17.68	PASS
11N20SISO	Ant1	5180	14.42	17.74	PASS
		5200	14.48	17.8	PASS
		5240	14.86	18.18	PASS
		5260	15.00	18.32	PASS
		5300	14.80	18.12	PASS
		5320	14.56	17.88	PASS
		5500	14.46	17.78	PASS
		5580	13.48	16.8	PASS
		5700	13.98	17.3	PASS
		5745	13.98	17.3	PASS
		5785	13.25	16.57	PASS
		5825	13.70	17.02	PASS
11N40SISO	Ant1	5190	15.05	18.37	PASS
		5230	15.17	18.49	PASS
		5270	15.42	18.74	PASS
		5310	15.26	18.58	PASS



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		5510	14.71	18.03	PASS
		5550	14.05	17.37	PASS
		5670	14.59	17.91	PASS
		5755	13.48	16.8	PASS
		5795	13.22	16.54	PASS
11AC20SISO	Ant1	5180	13.94	17.26	PASS
		5200	13.93	17.25	PASS
		5240	14.18	17.5	PASS
		5260	14.34	17.66	PASS
		5300	14.32	17.64	PASS
		5320	13.98	17.3	PASS
		5500	13.70	17.02	PASS
		5580	12.86	16.18	PASS
		5700	13.44	16.76	PASS
		5745	12.54	15.86	PASS
		5785	12.10	15.42	PASS
		5825	12.35	15.67	PASS
11AC40SISO	Ant1	5190	12.76	16.08	PASS
		5230	12.94	16.26	PASS
		5270	12.20	15.52	PASS
		5310	13.03	16.35	PASS
		5510	12.35	15.67	PASS
		5550	11.83	15.15	PASS
		5670	12.40	15.72	PASS
		5755	12.31	15.63	PASS
		5795	12.14	15.46	PASS
11AC80SISO	Ant1	5210	12.84	16.16	PASS
		5290	13.19	16.51	PASS
		5530	12.10	15.42	PASS
		5610	12.21	15.53	PASS
		5775	11.26	14.58	PASS

Note : The Duty Cycle Factor is compensated in the graph.



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Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Verdict
11A	Ant1	5180	5.15	PASS
		5200	5.13	PASS
		5240	5.39	PASS
		5260	5.53	PASS
		5300	5.62	PASS
		5320	5.46	PASS
		5500	4.87	PASS
		5580	4.2	PASS
		5700	4.63	PASS
		5745	1.2	PASS
		5785	0.72	PASS
		5825	0.92	PASS
11N20SISO	Ant1	5180	3.75	PASS
		5200	3.8	PASS
		5240	4.04	PASS
		5260	4.23	PASS
		5300	4.09	PASS
		5320	3.91	PASS
		5500	3.68	PASS
		5580	2.74	PASS
		5700	3.35	PASS
		5745	0.4	PASS
		5785	-0.4	PASS
		5825	0.05	PASS
11N40SISO	Ant1	5190	1.58	PASS
		5230	1.73	PASS
		5270	2.01	PASS
		5310	1.89	PASS
		5510	1.37	PASS



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		5550	0.53	PASS
		5670	1.12	PASS
		5755	-2.95	PASS
		5795	-3.33	PASS
11AC20SISO	Ant1	5180	3.29	PASS
		5200	3.28	PASS
		5240	3.46	PASS
		5260	3.57	PASS
		5300	3.6	PASS
		5320	3.33	PASS
		5500	2.91	PASS
		5580	2.14	PASS
		5700	2.67	PASS
		5745	-1.02	PASS
		5785	-1.49	PASS
		5825	-1.21	PASS
11AC40SISO	Ant1	5190	-0.69	PASS
		5230	-0.56	PASS
		5270	-1.33	PASS
		5310	-0.32	PASS
		5510	-1.15	PASS
		5550	-1.65	PASS
		5670	-0.98	PASS
		5755	-4.11	PASS
		5795	-4.37	PASS
11AC80SISO	Ant1	5210	-3.81	PASS
		5290	-3.16	PASS
		5530	-4.41	PASS
		5610	-4.29	PASS
		5775	-8.41	PASS

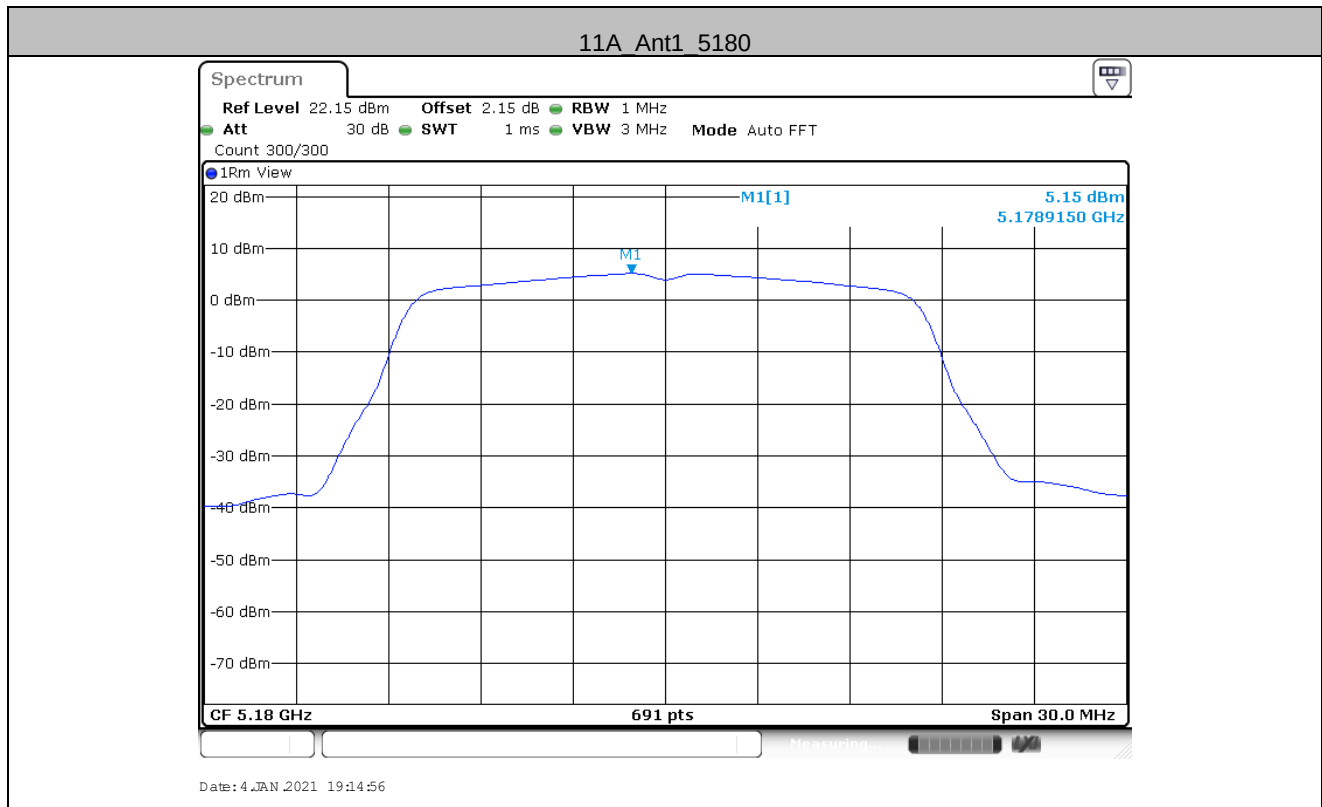
Note : 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



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Test Graphs



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