

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. Note 3: 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.	

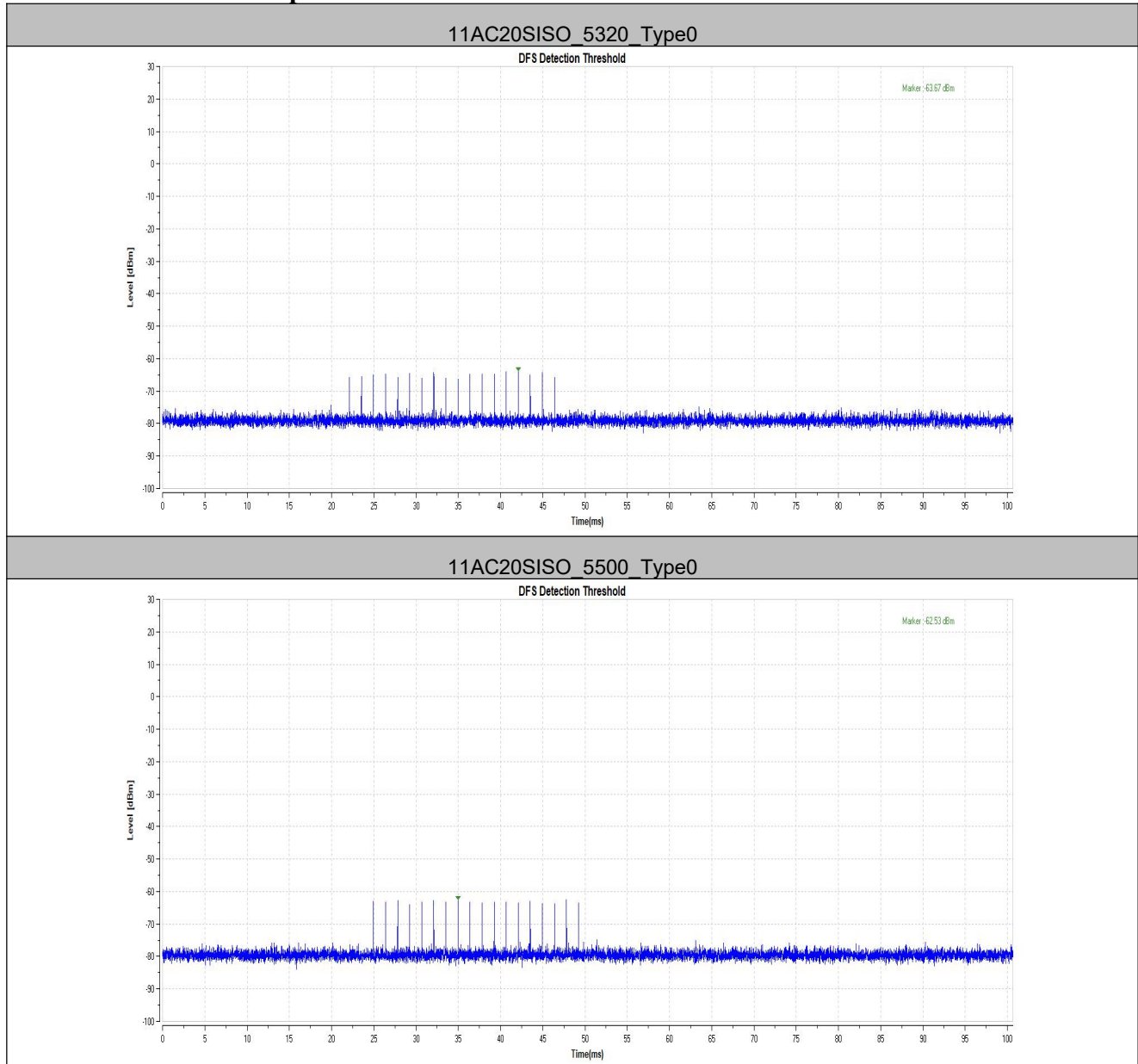
4.12.4 Test plots
4.12.4.1 DFS Detection Thresholds
4.12.4.1.1 Test Result

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



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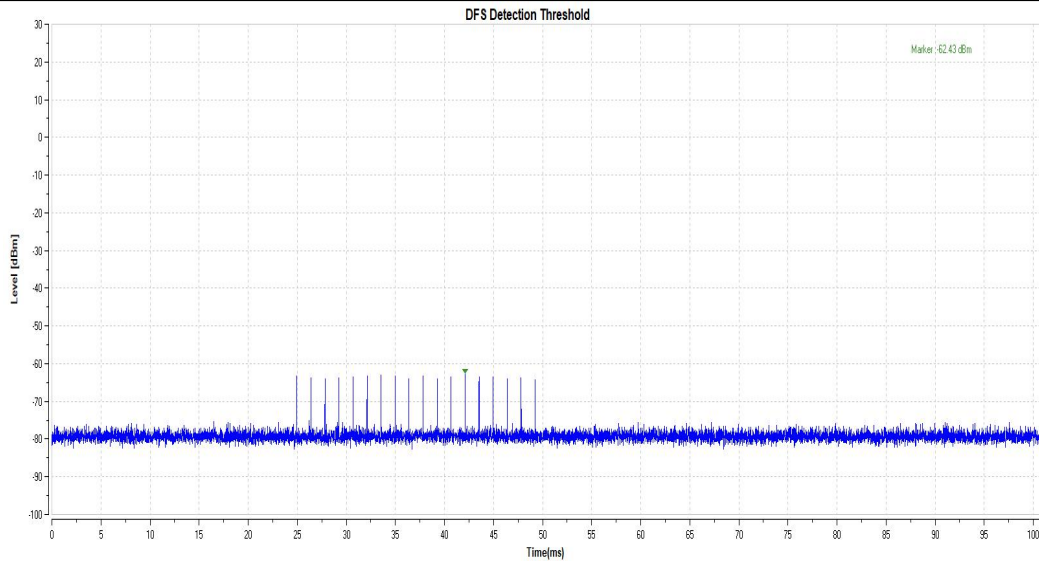
4.12.4.1.2 Test Graphs



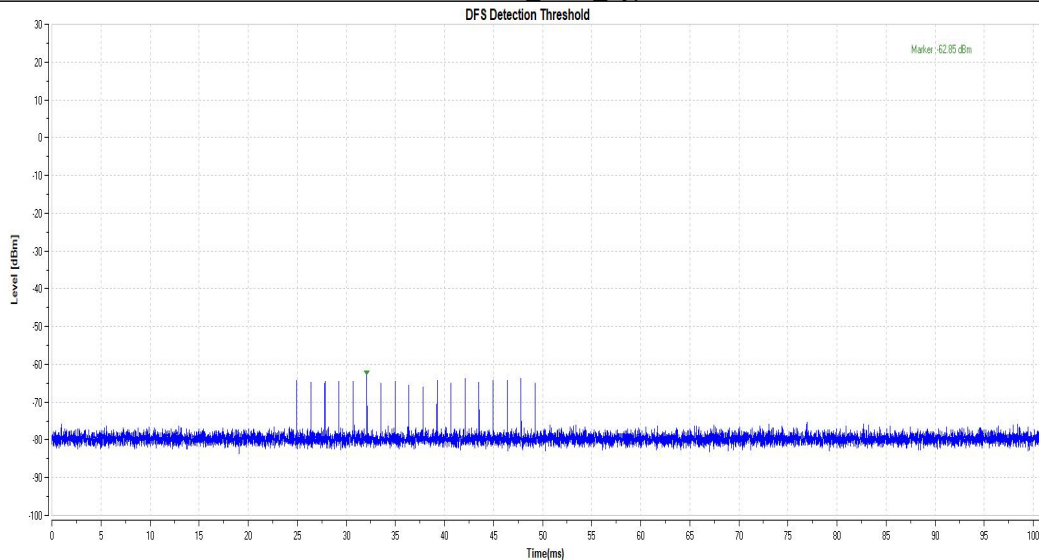
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11AC80SISO_5290_Type0



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

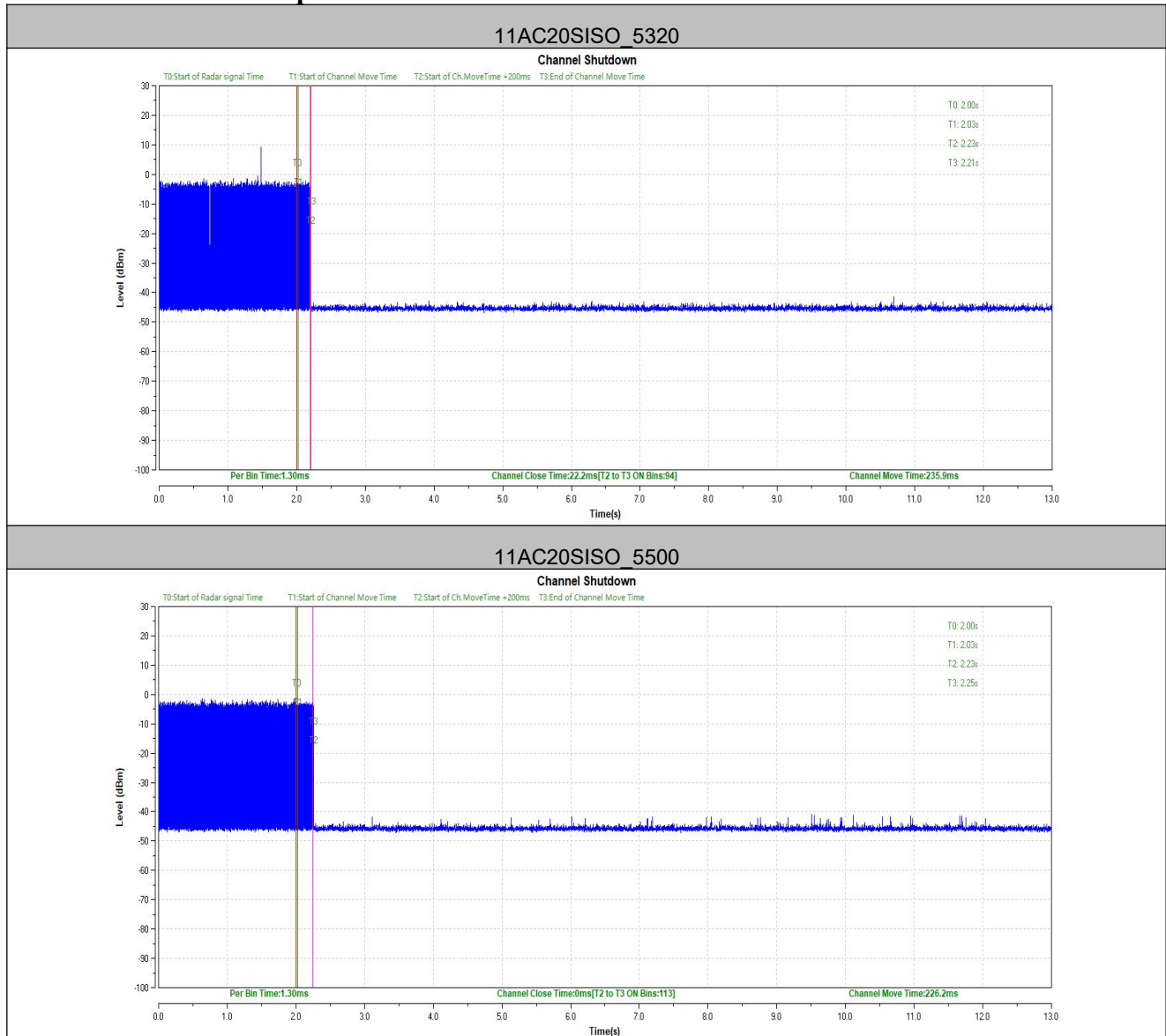
TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	22.2	60	235.9	10000	PASS
	5500	0	60	226.2	10000	PASS
11AC80SISO	5290	52.5	60	245.7	10000	PASS
	5530	0	60	206.7	10000	PASS



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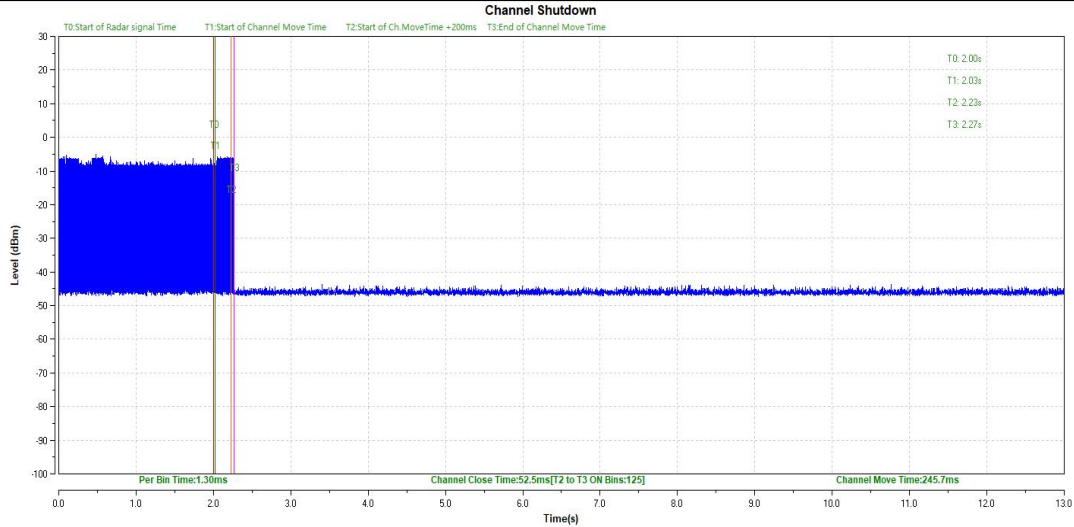
4.12.4.2.2 Test Graphs



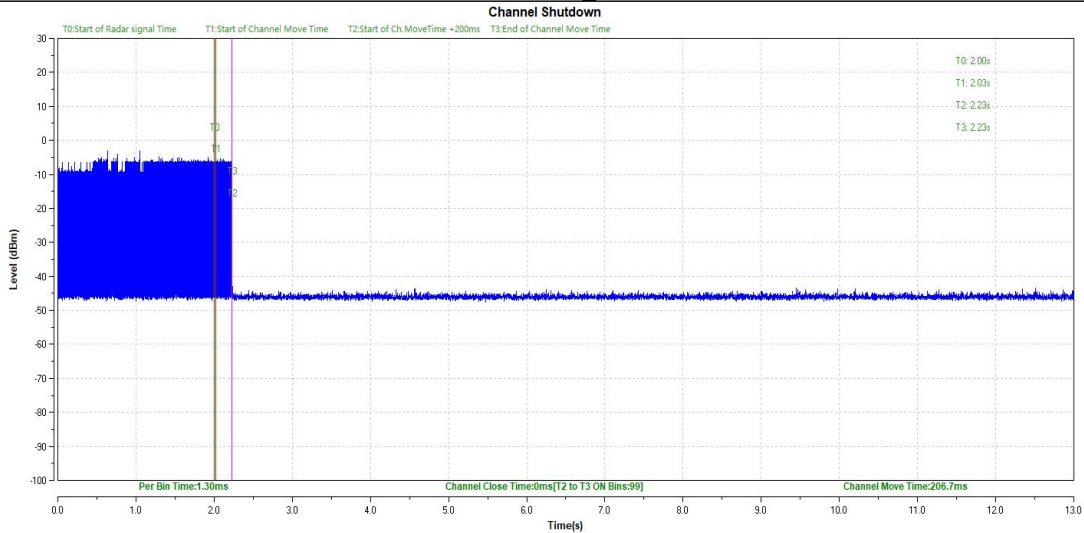
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4.12.4.3 Non-Occupancy Period

4.12.4.3.1 Test Result

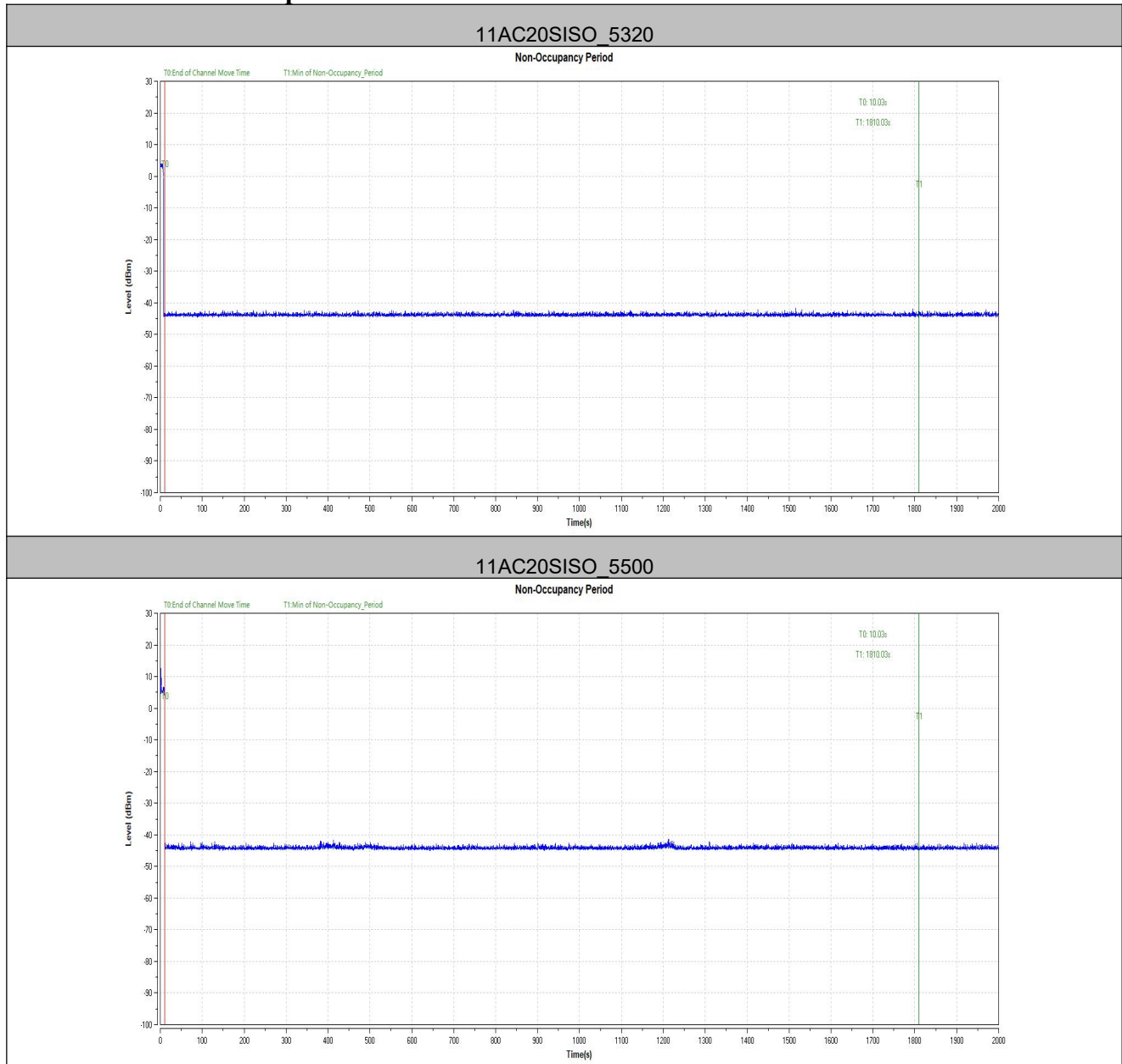
TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS



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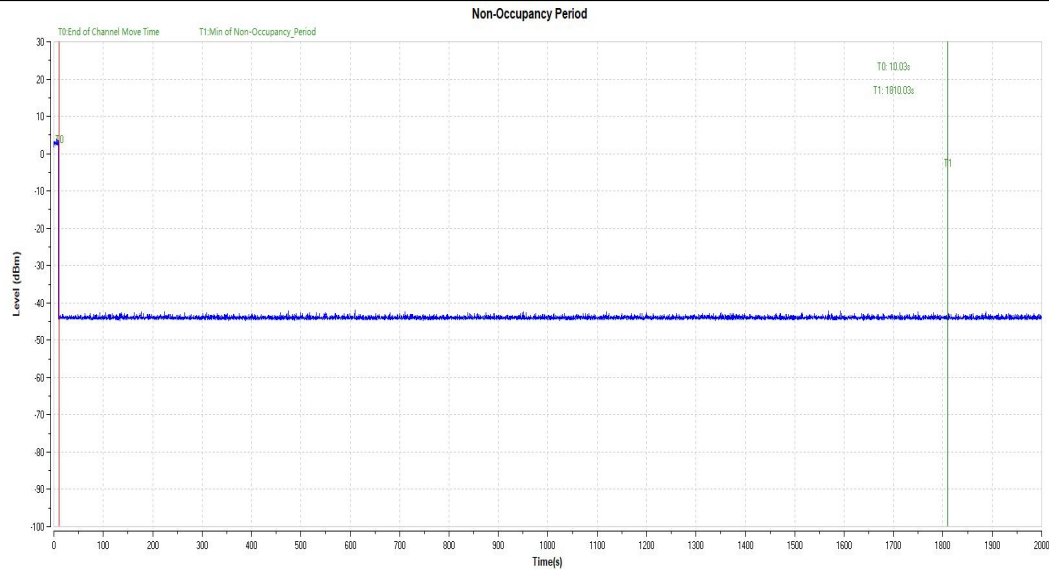
4.12.4.3.2 Test Graphs



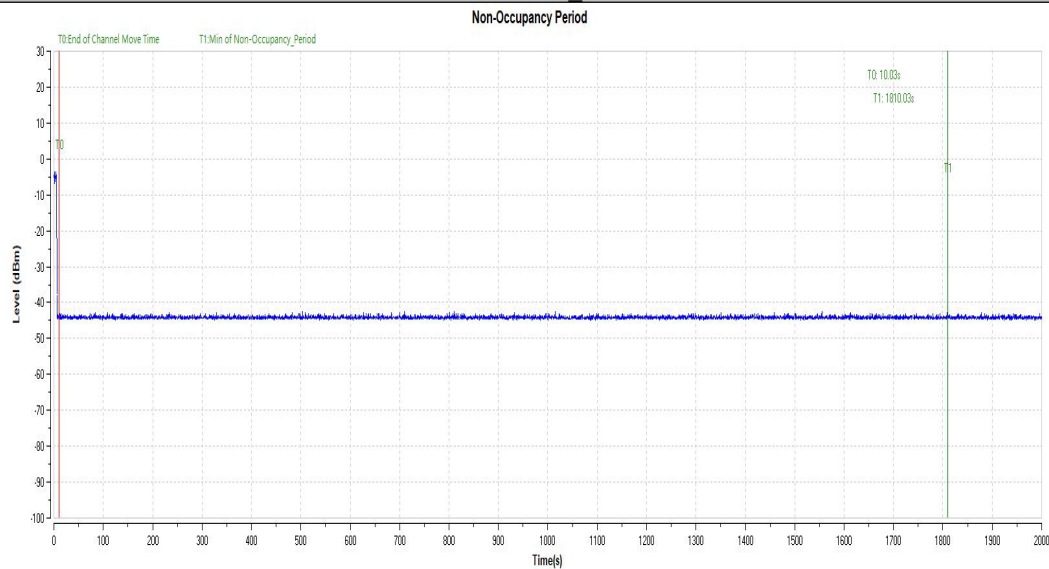
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5 Measurement Uncertainty (95% confidence levels, k=2)

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



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6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/3/2	2021/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2020/2/11	2021/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2020/2/11	2021/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1
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



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Page: 222 of 364

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2020/3/2	2021/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020/10/17	2023/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2020/7/14	2021/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/7/14	2021/7/14
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2020/10/20	2021/10/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020/3/2	2021/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020/6/12	2021/6/11



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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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Report No.: AR/2020/C000805

Page: 226 of 364

		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
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		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
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		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
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		5775	81.720	5733.960	5815.680	---	PASS



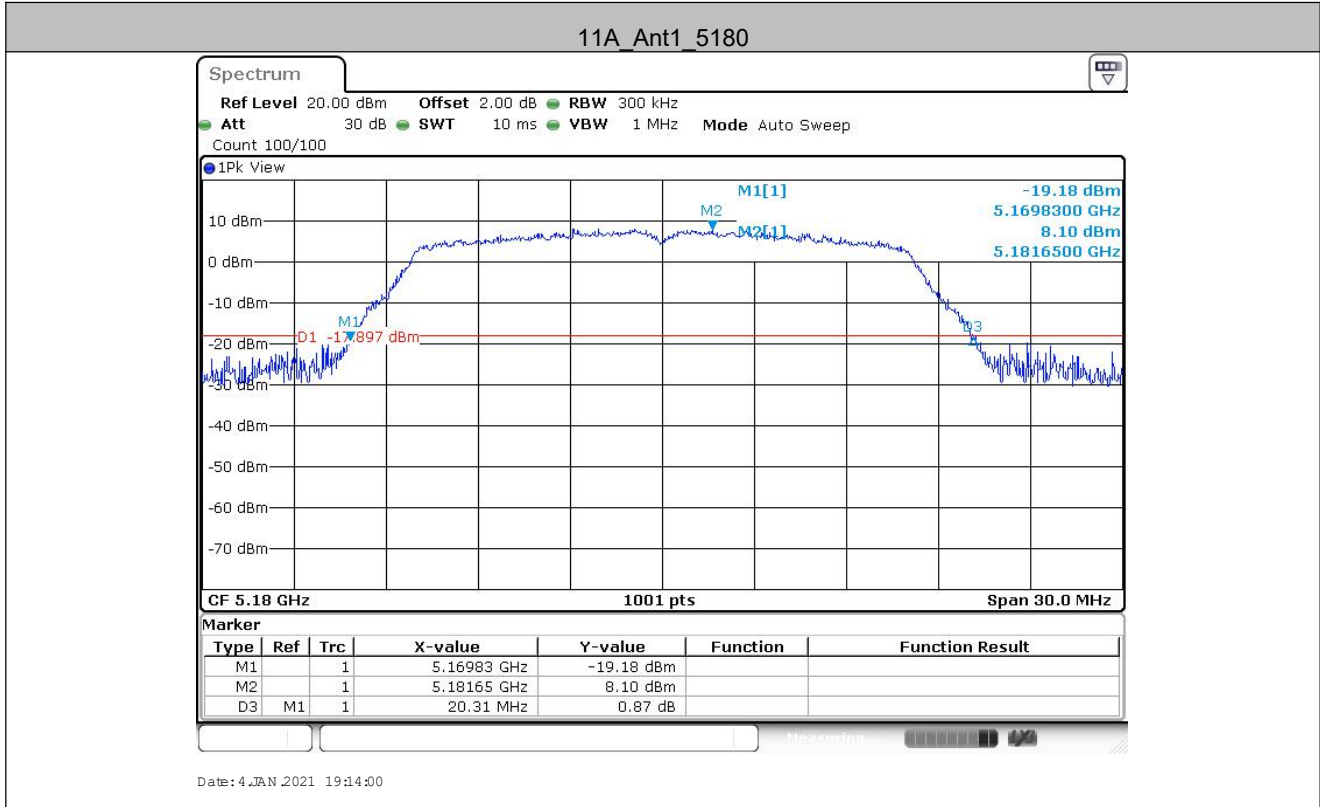
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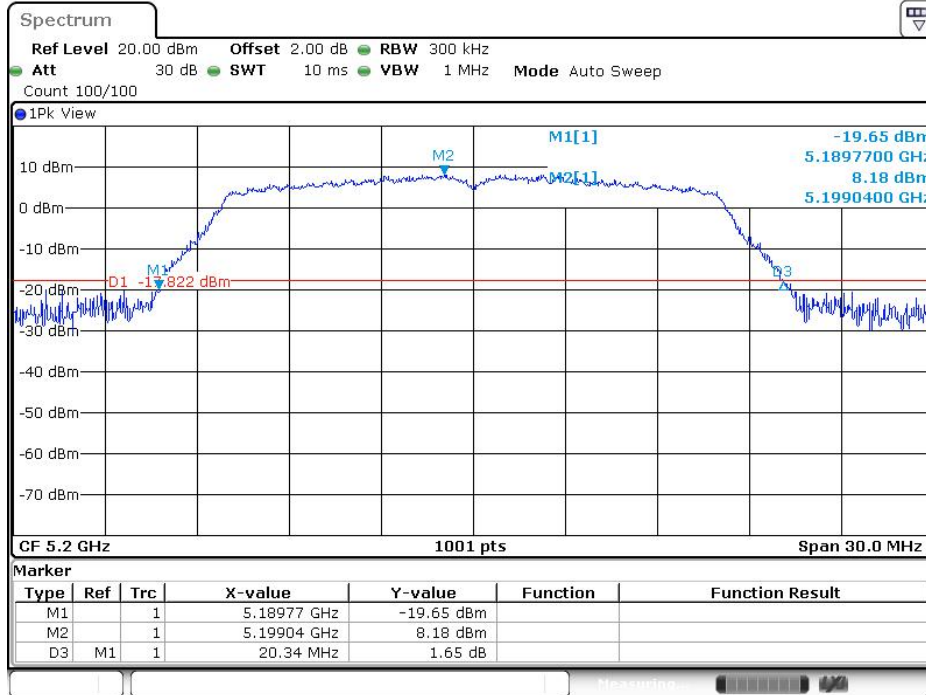
Test Graphs



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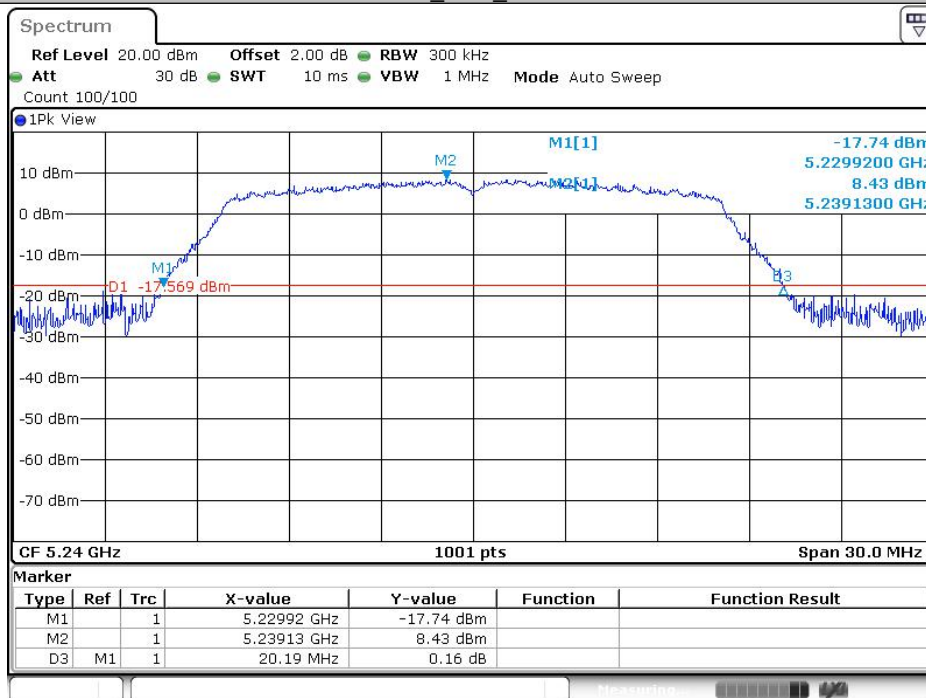
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11A_Ant1_5200



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11A_Ant1_5240



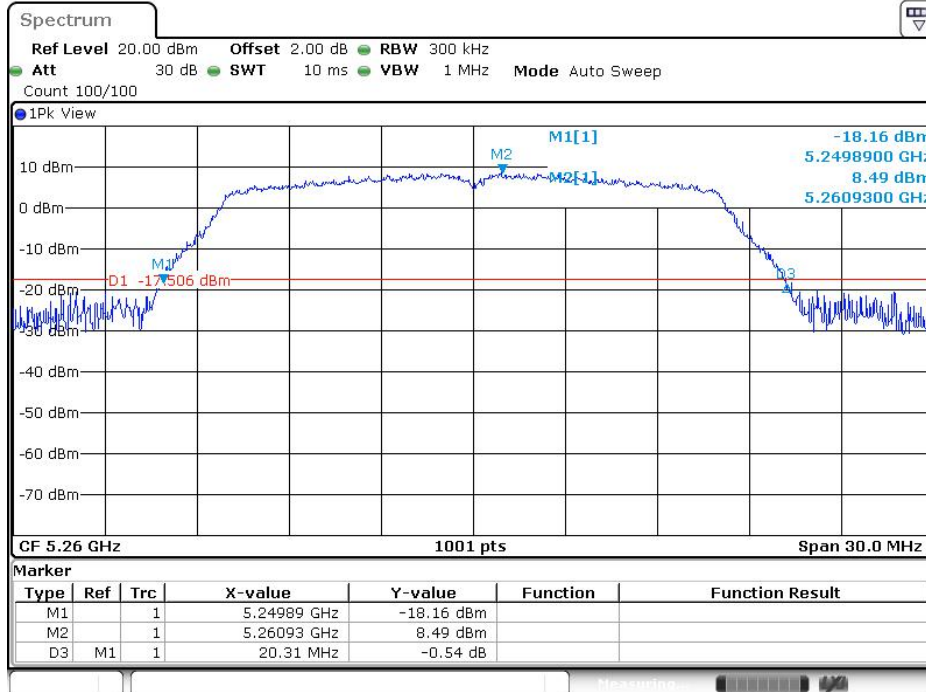
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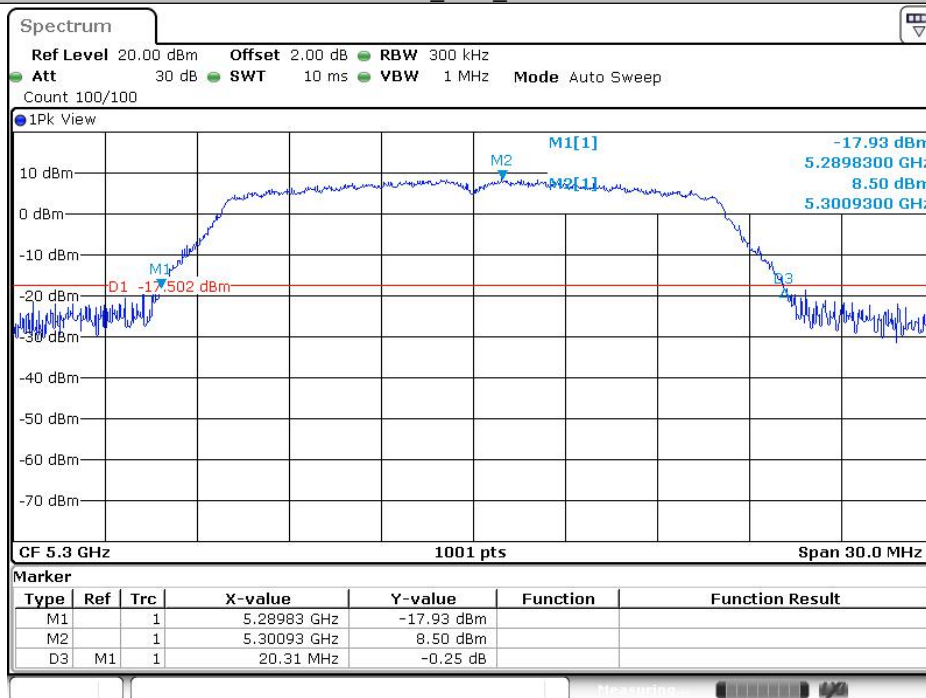
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11A_Ant1_5260



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11A_Ant1_5300



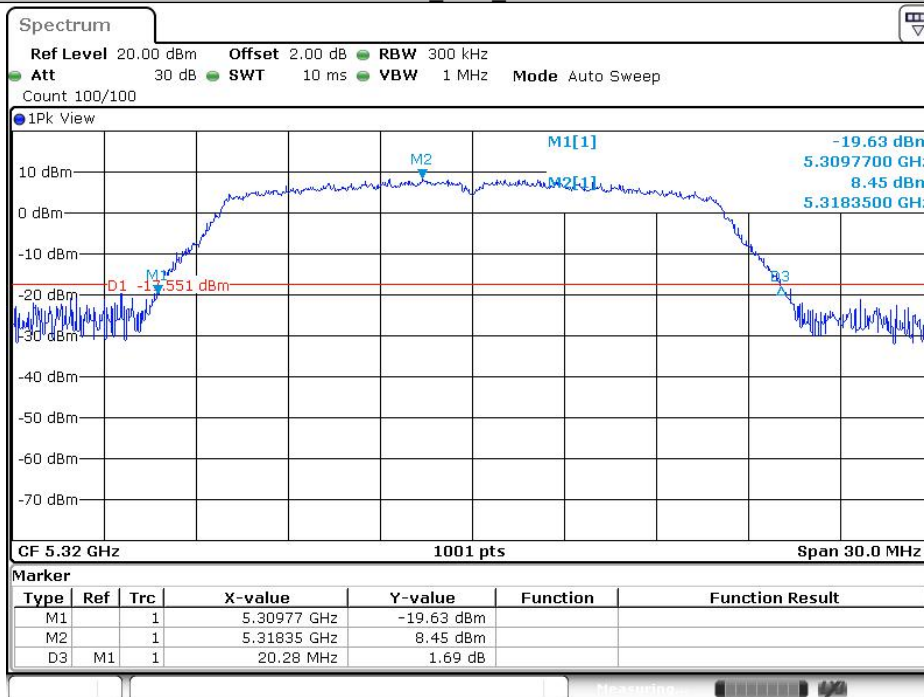
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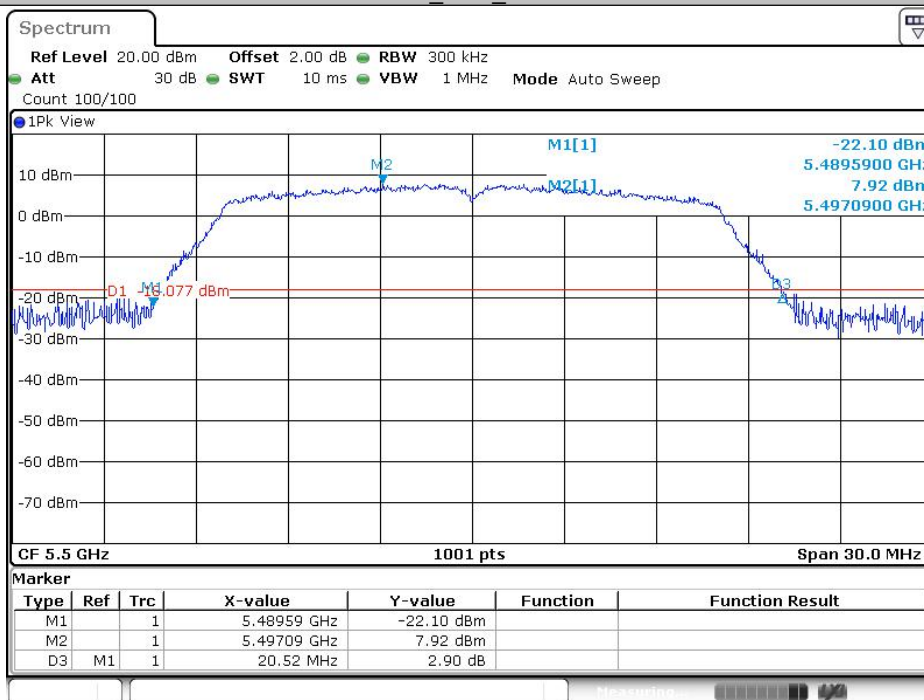
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11A_Ant1_5320



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11A_Ant1_5500



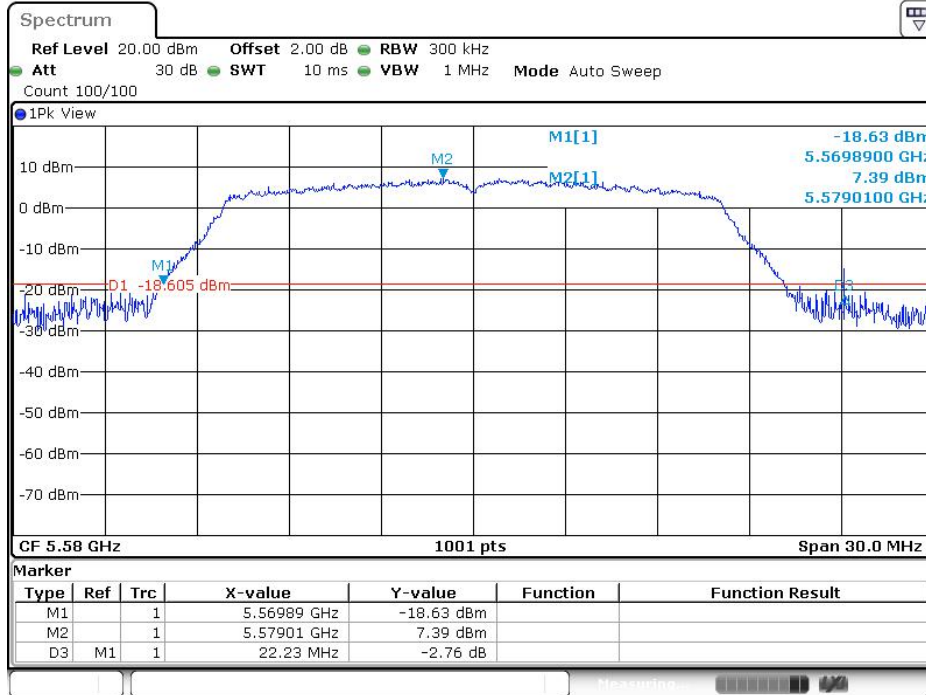
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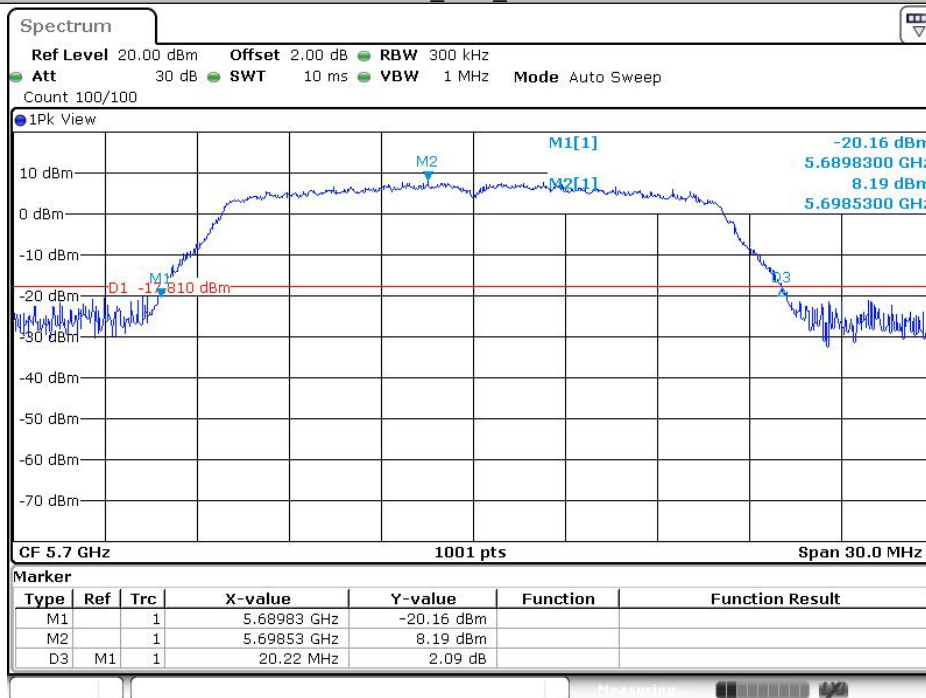
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11A_Ant1_5700



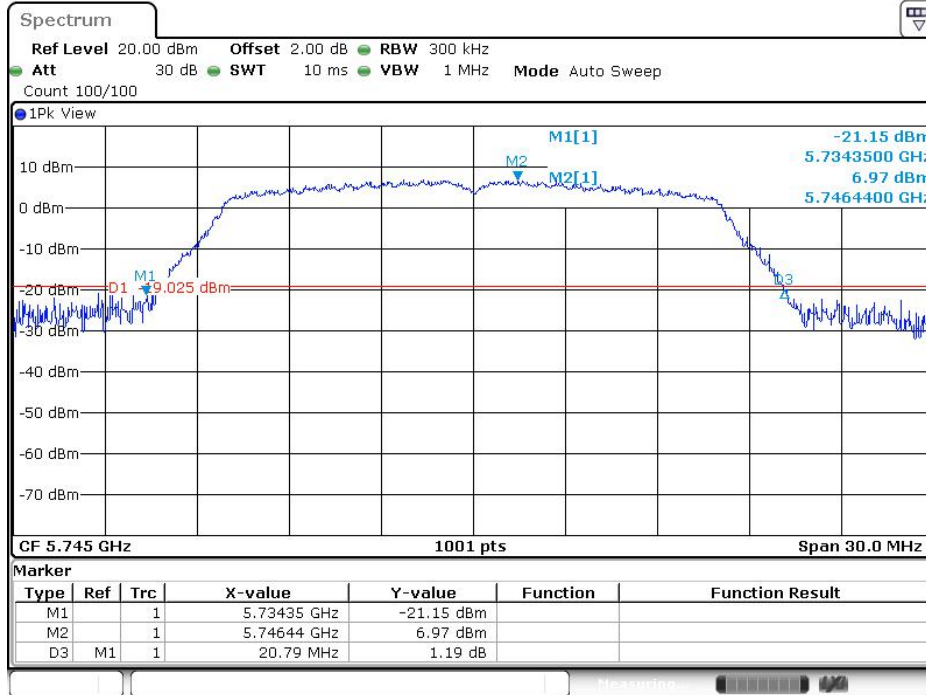
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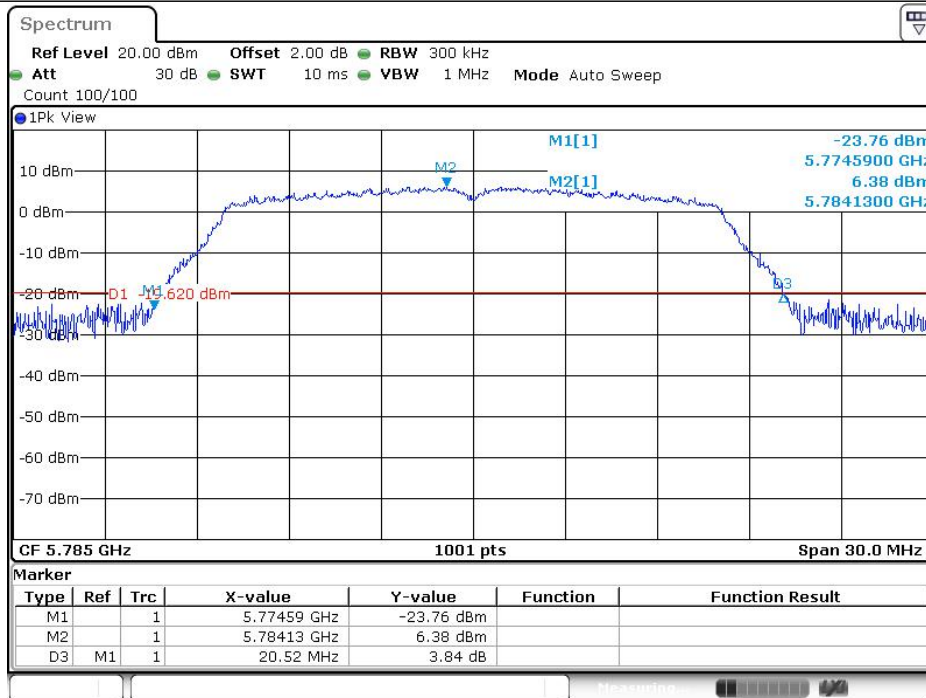
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11A_Ant1_5785



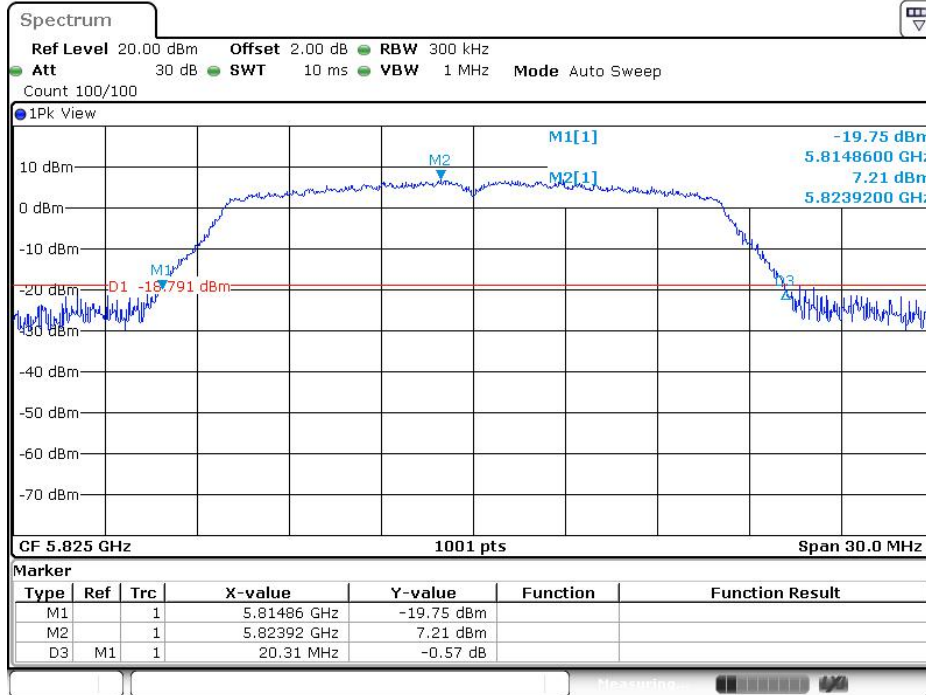
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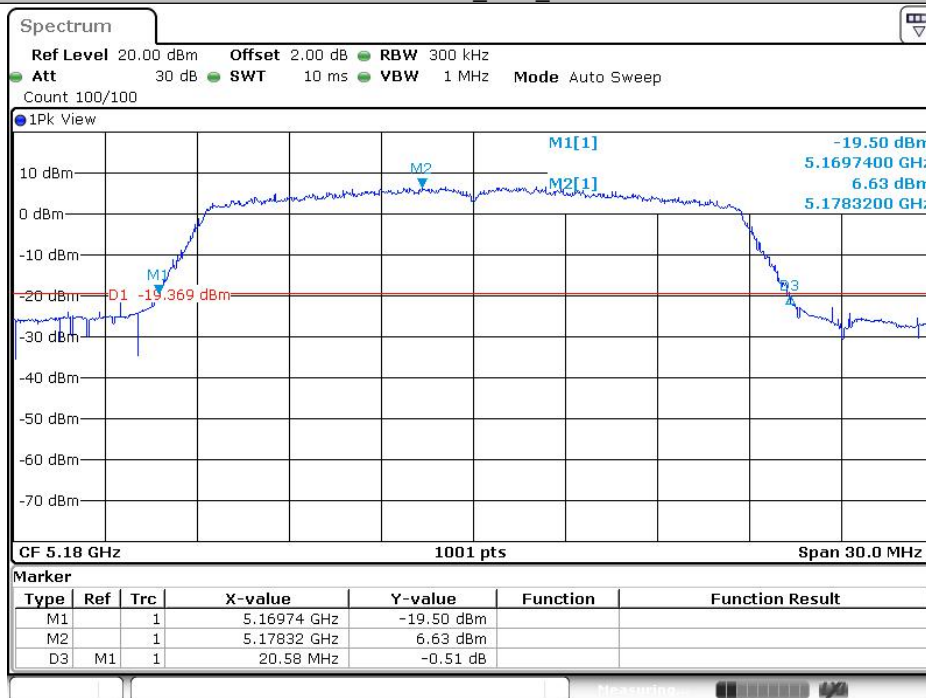
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11A_Ant1_5825



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11N20SISO_Ant1_5180



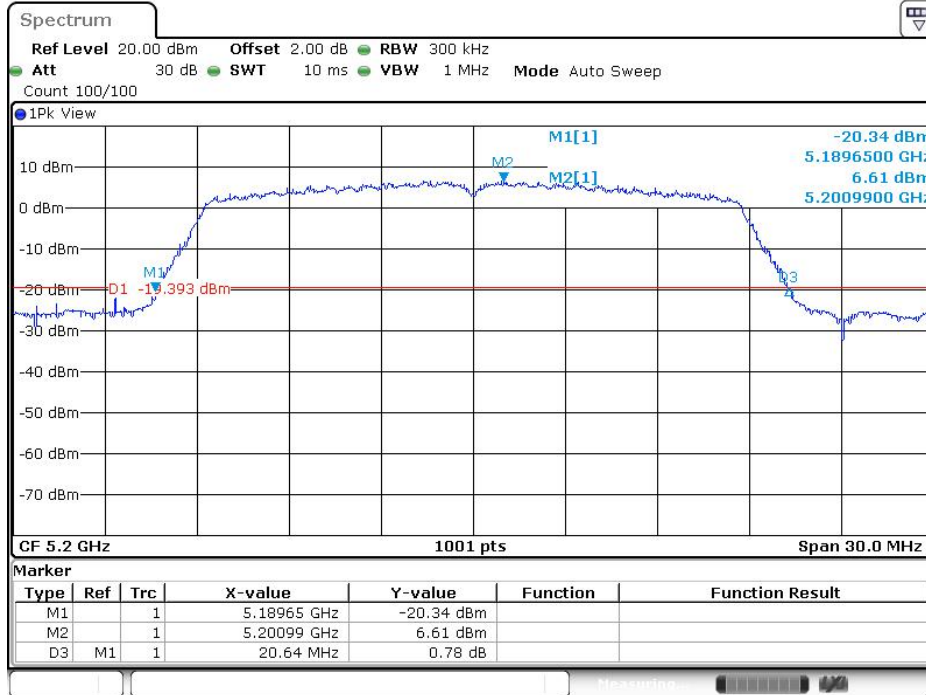
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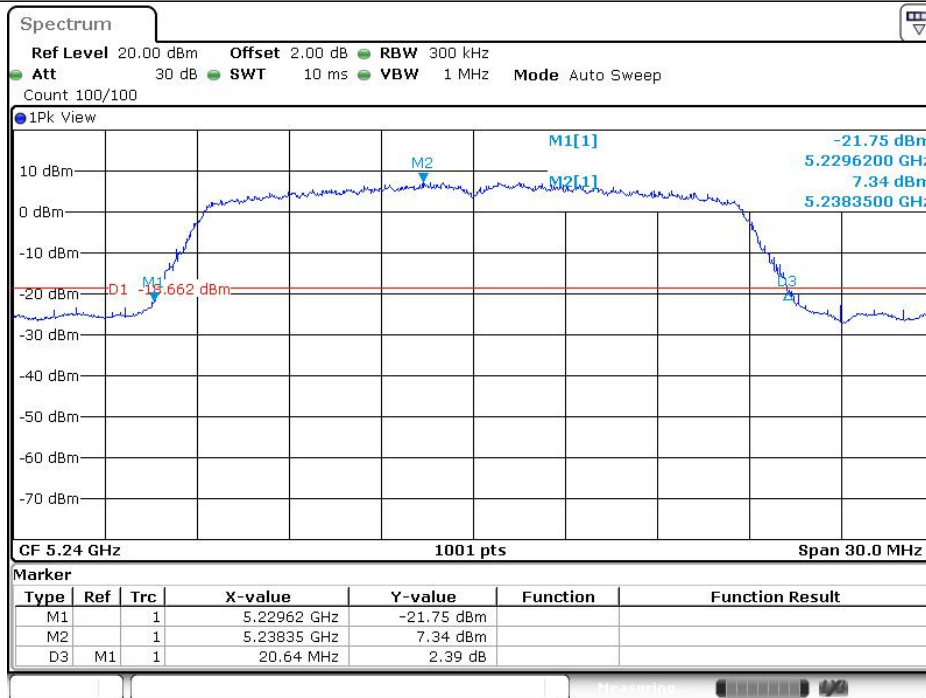
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11N20SISO_Ant1_5200



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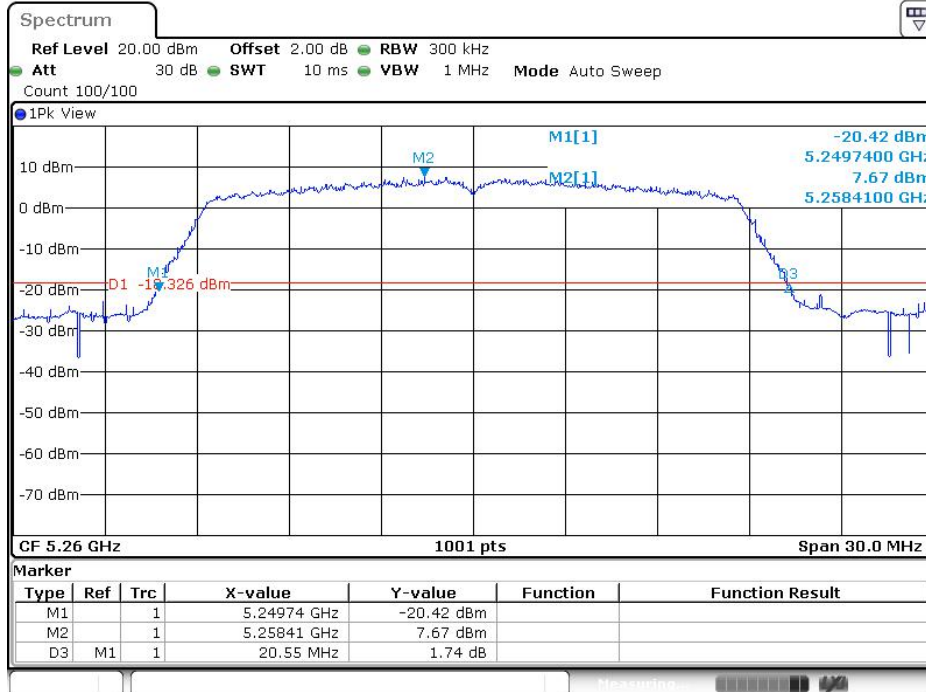
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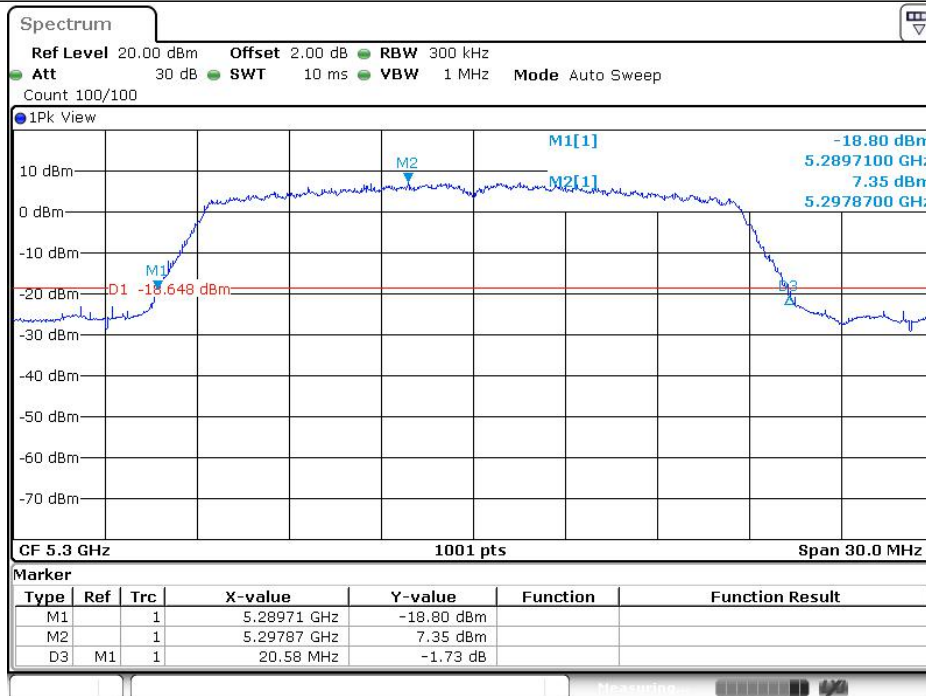
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11N20SISO_Ant1_5300



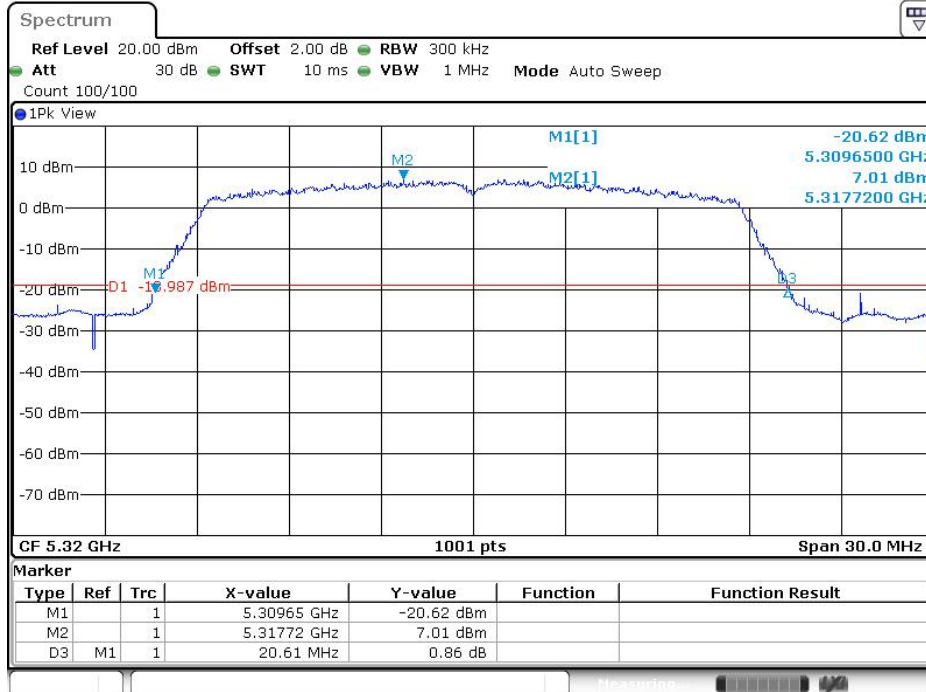
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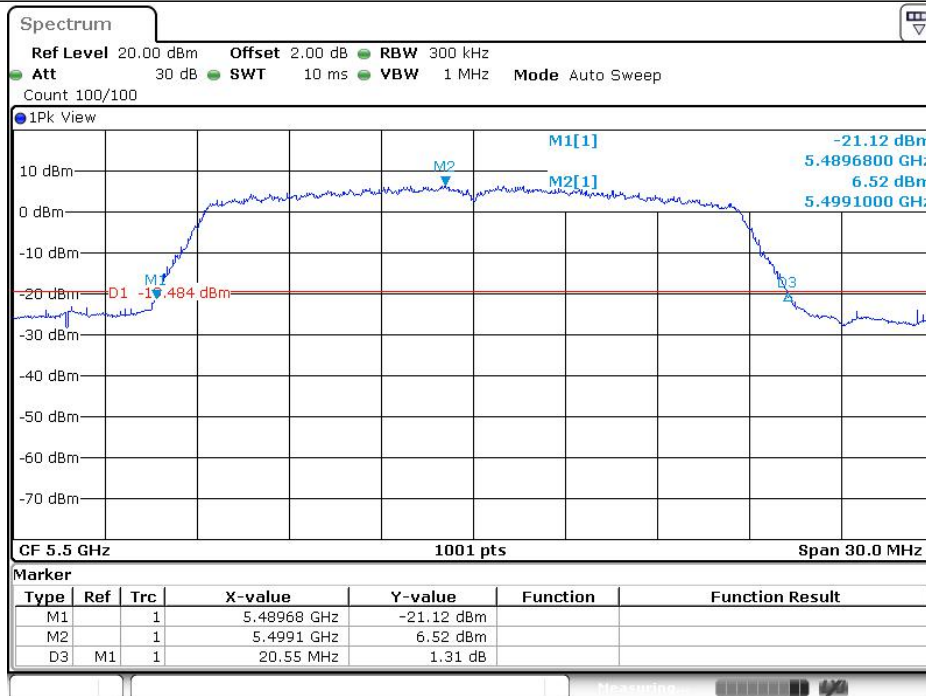
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11N20SISO_Ant1_5320



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11N20SISO_Ant1_5500



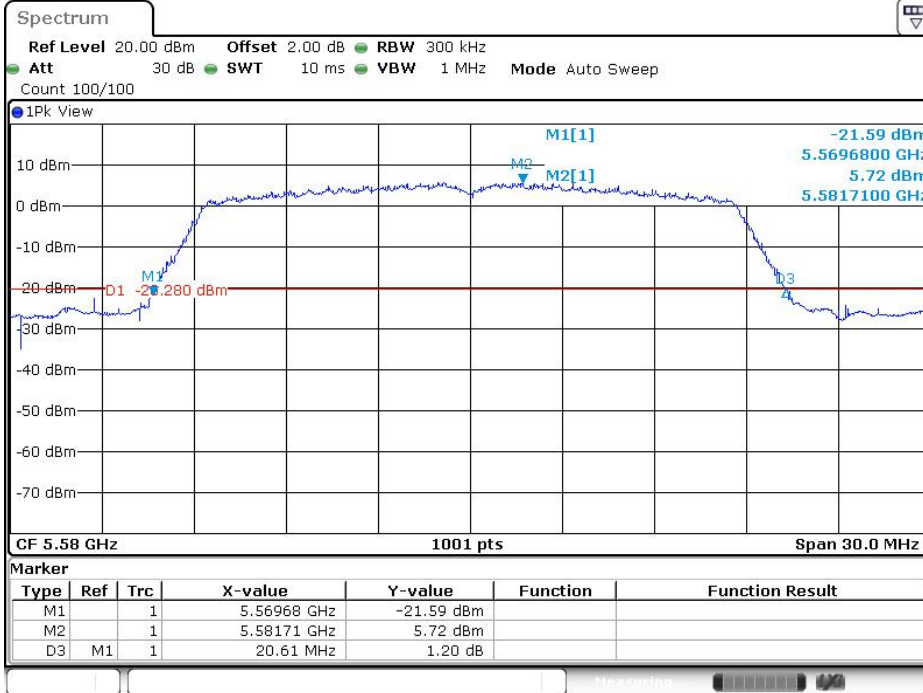
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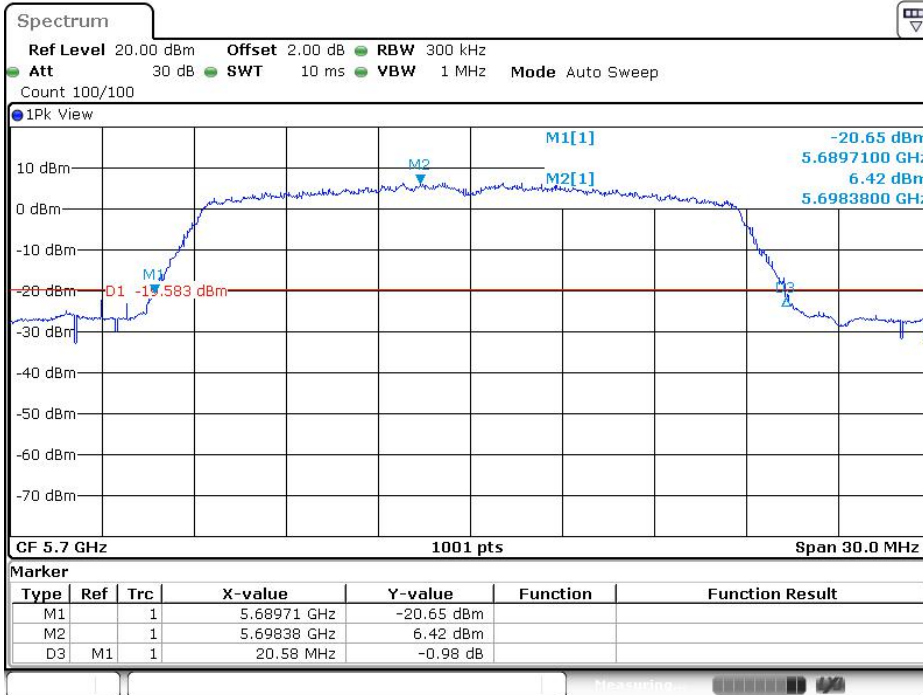
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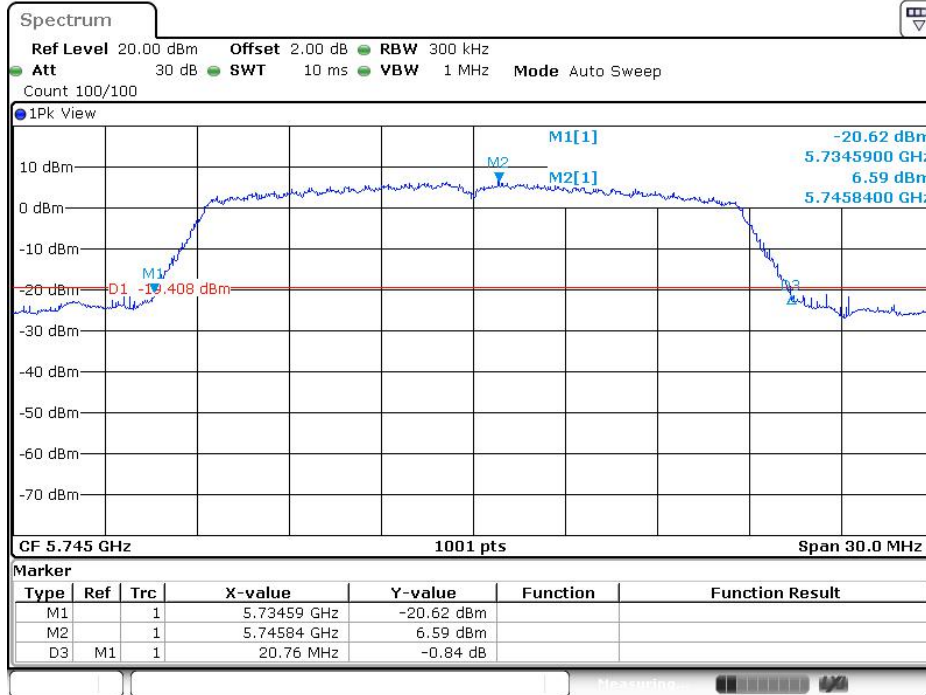
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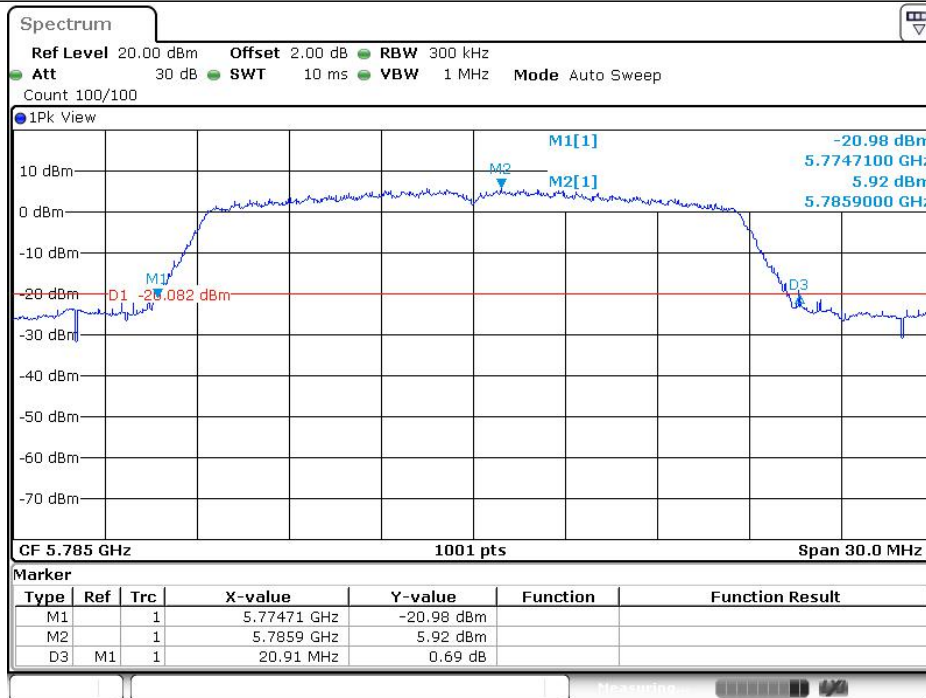
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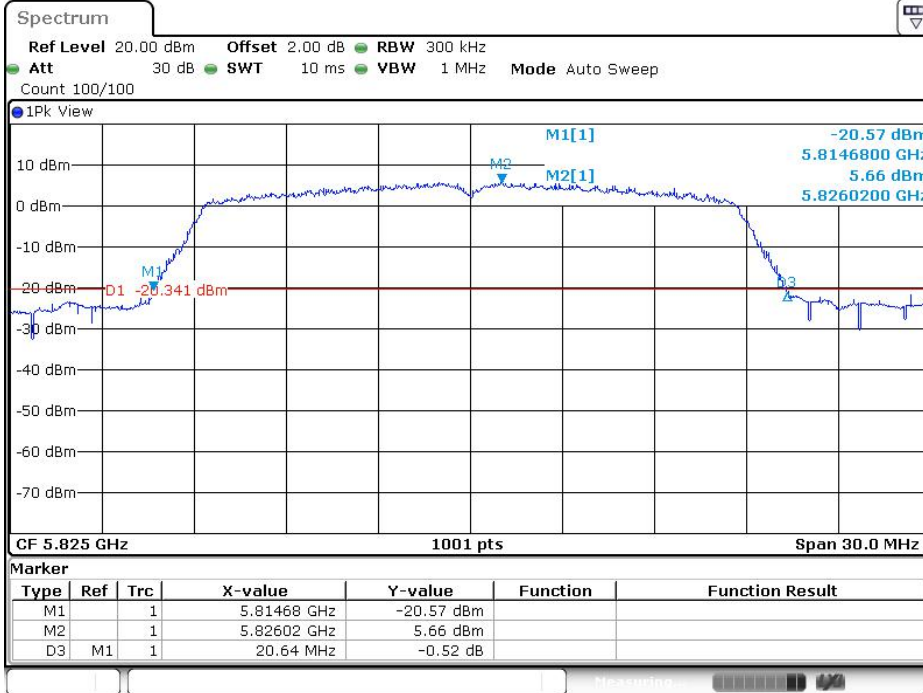
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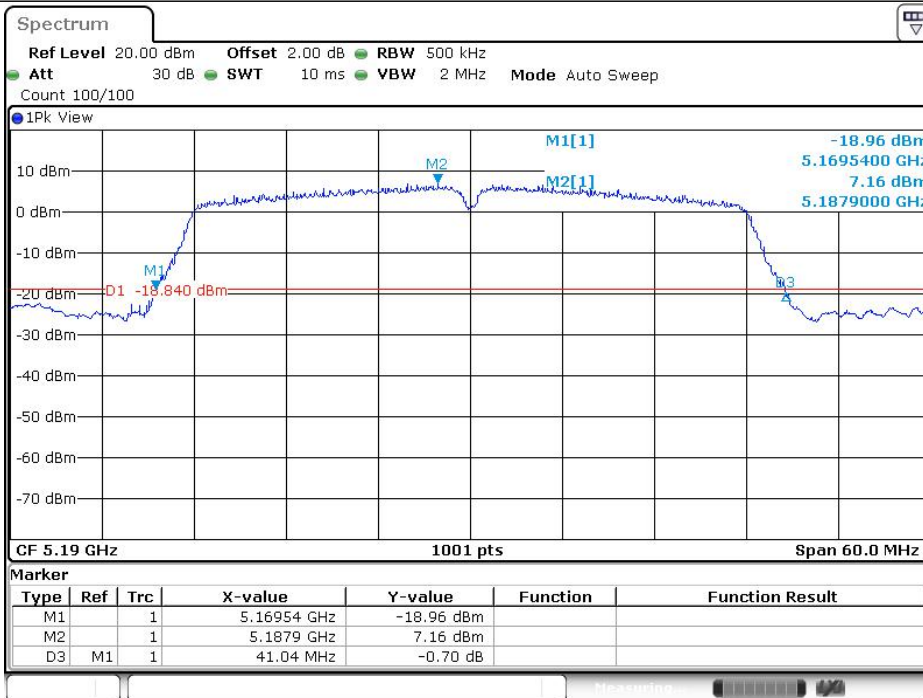
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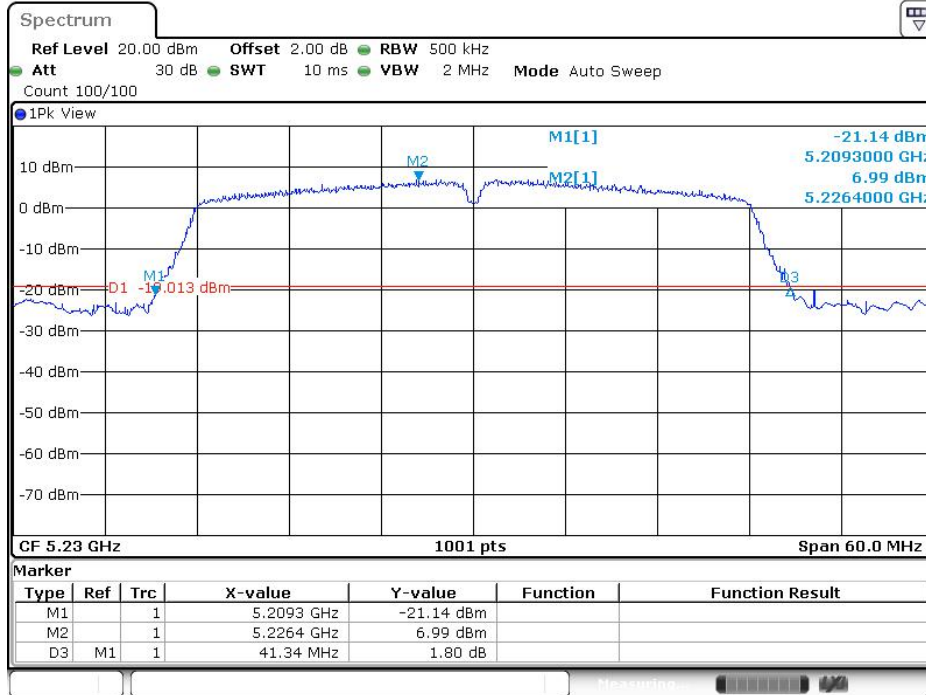
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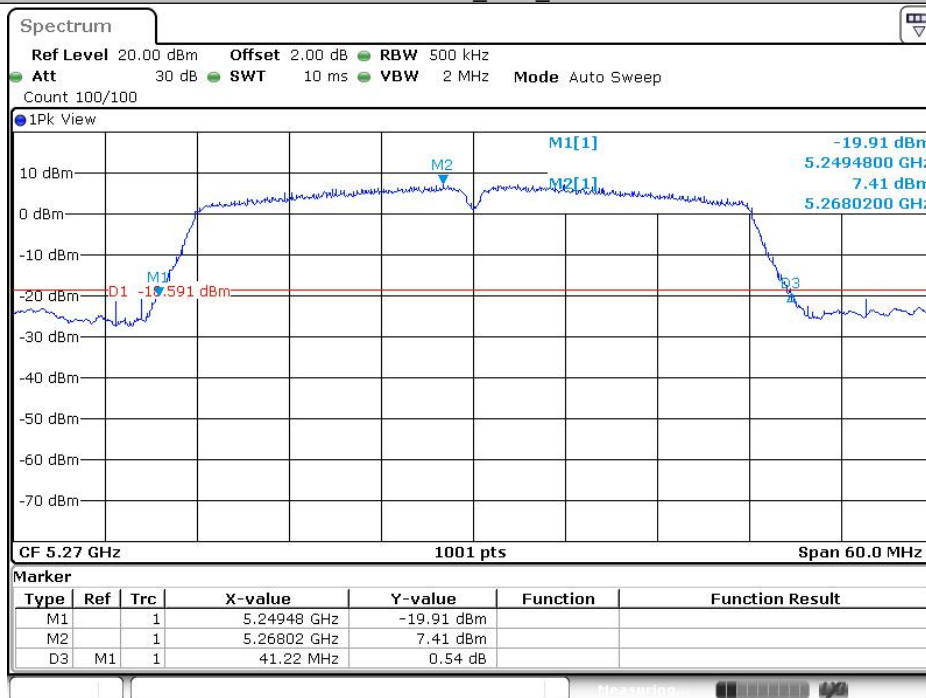
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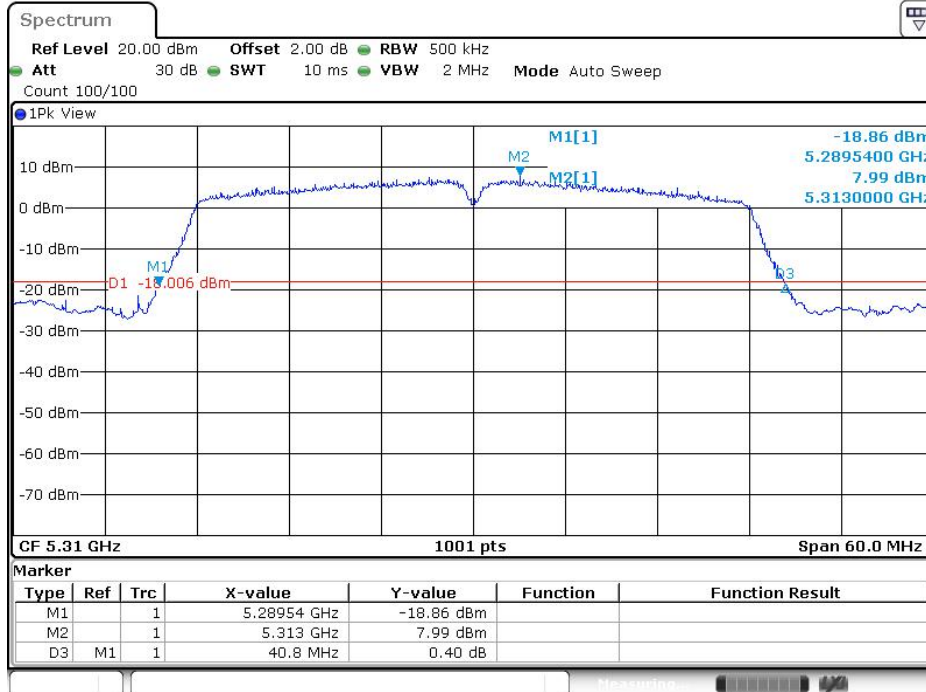
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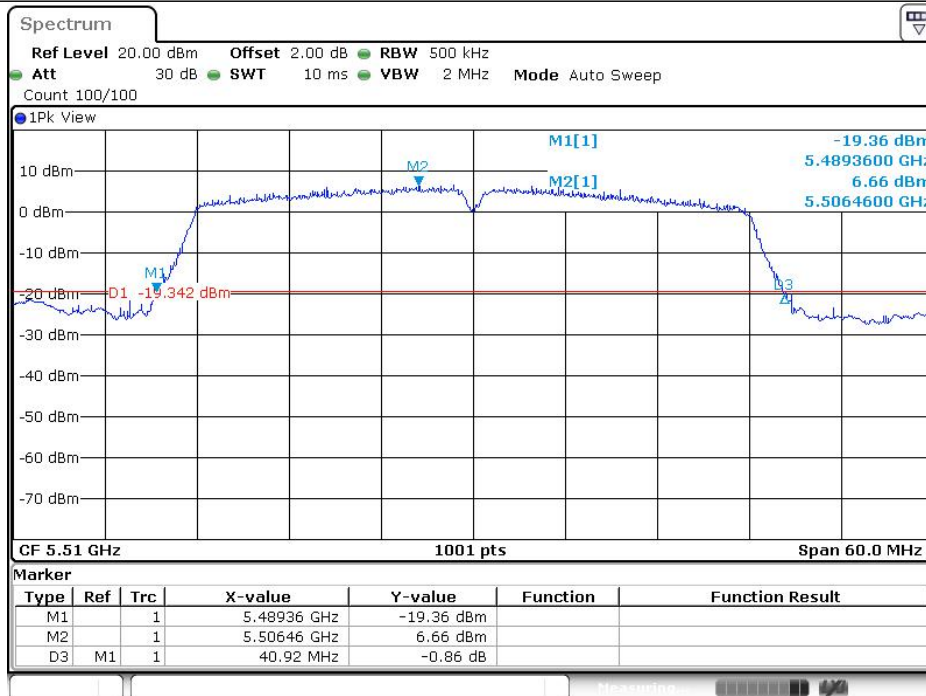


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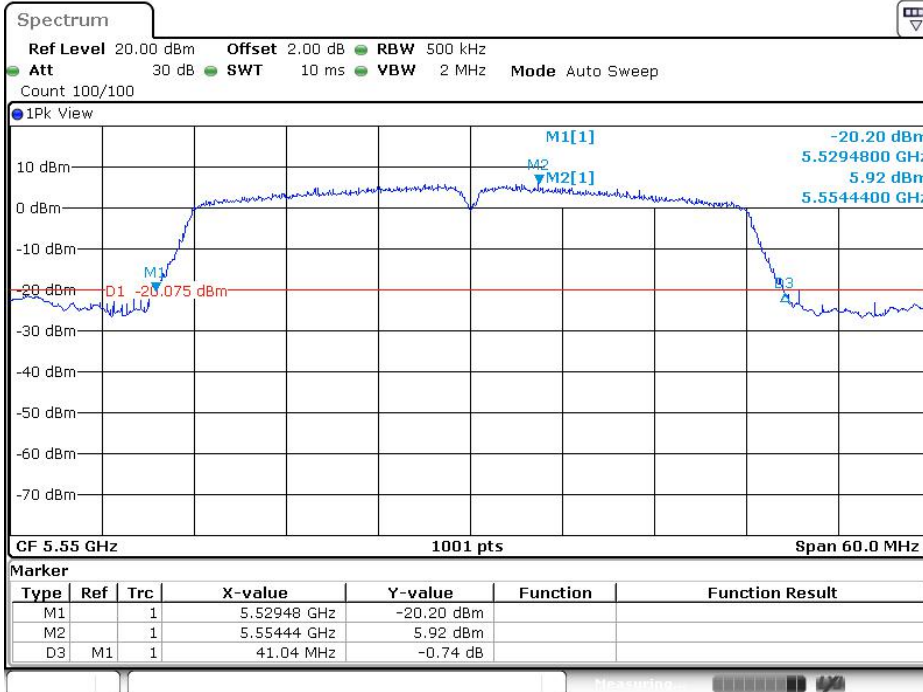
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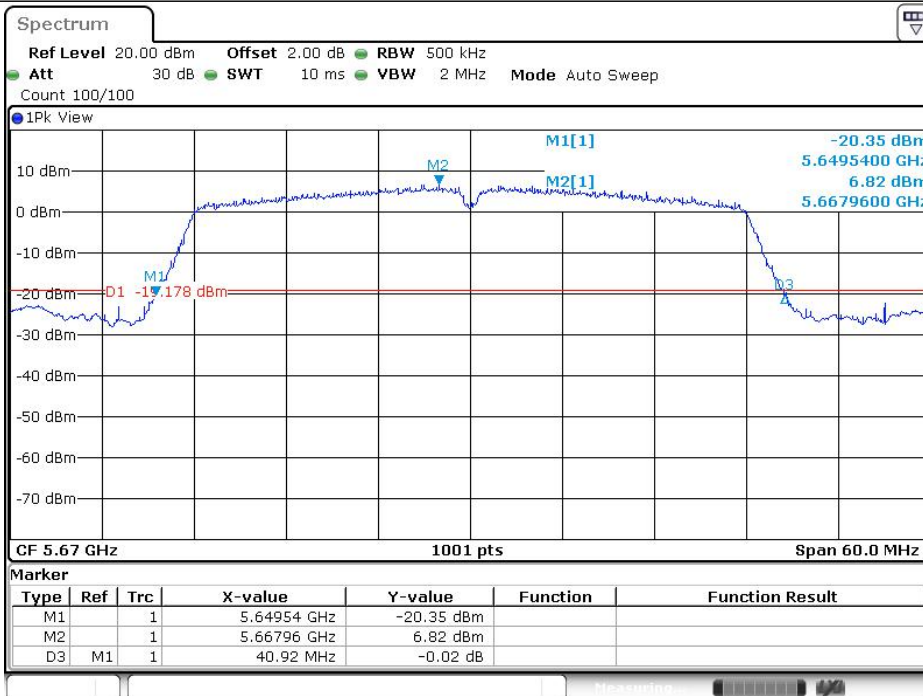
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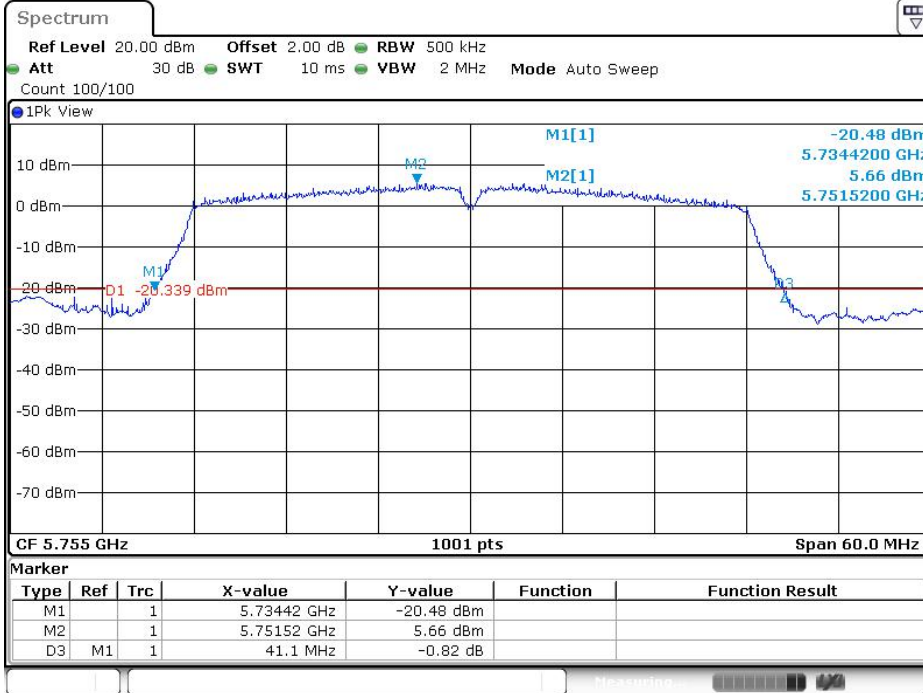
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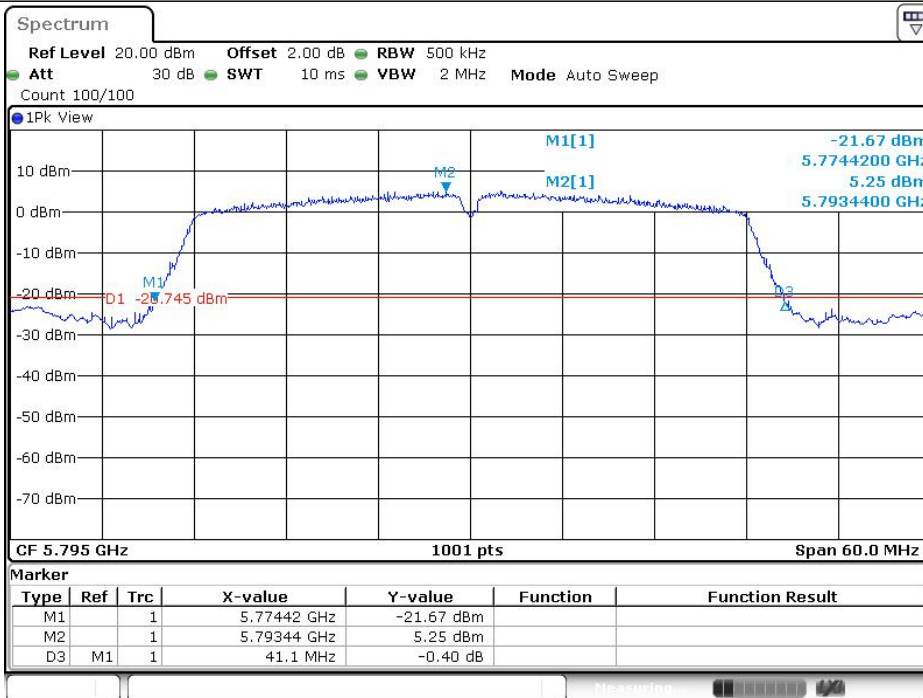
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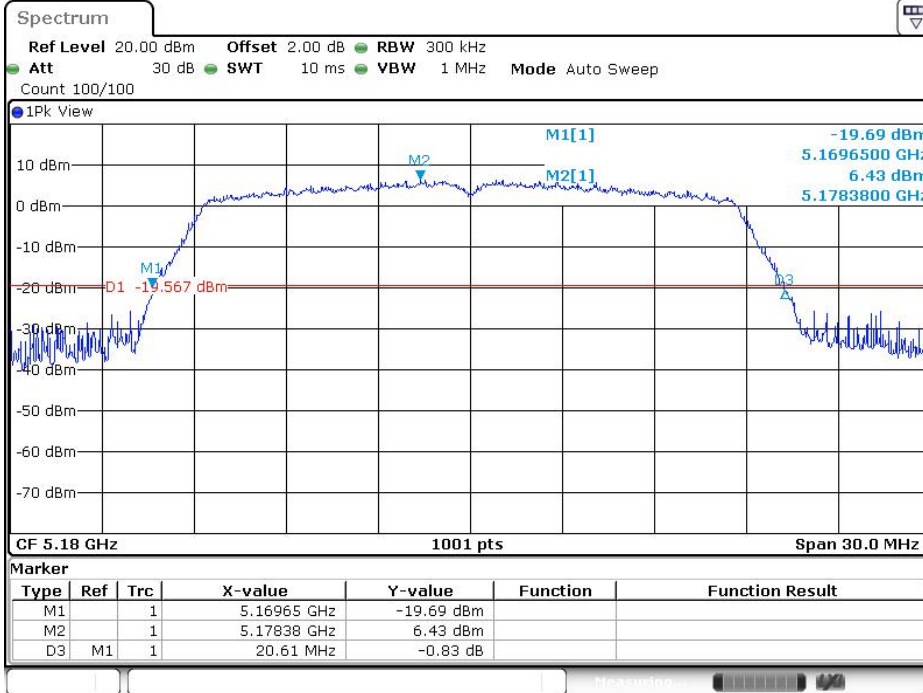
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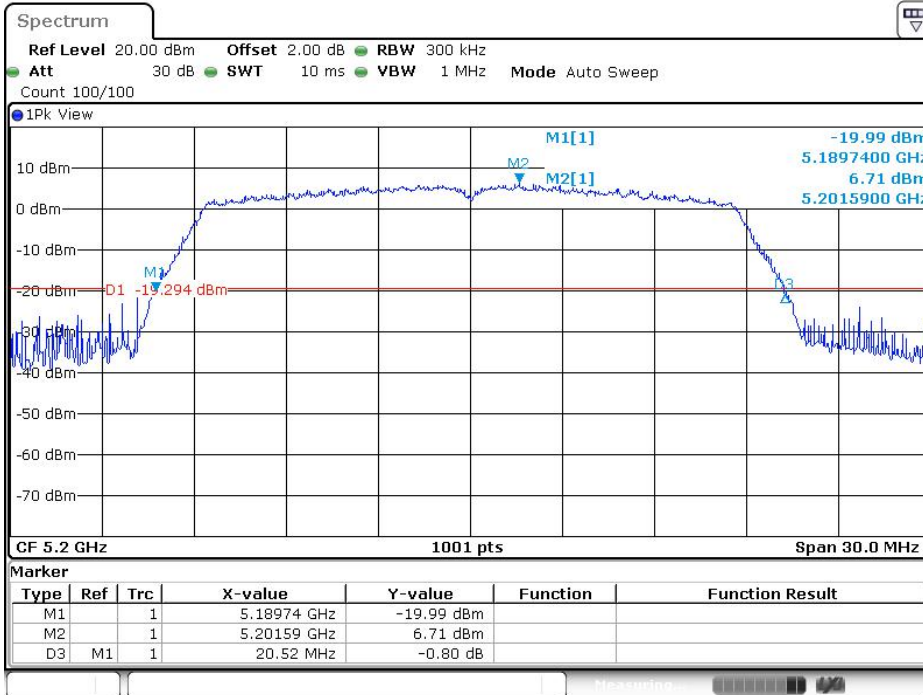


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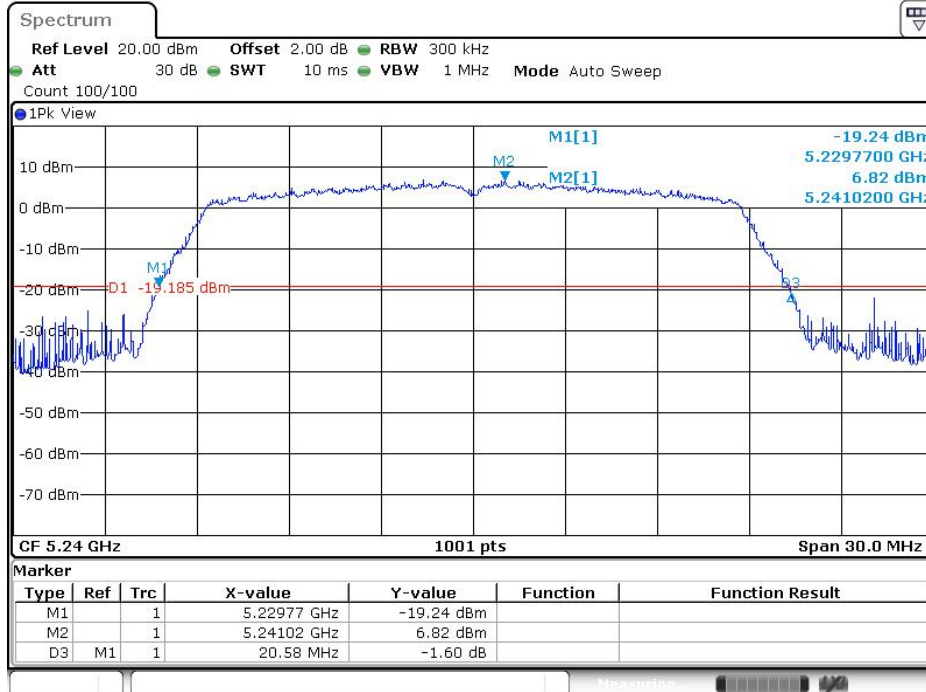
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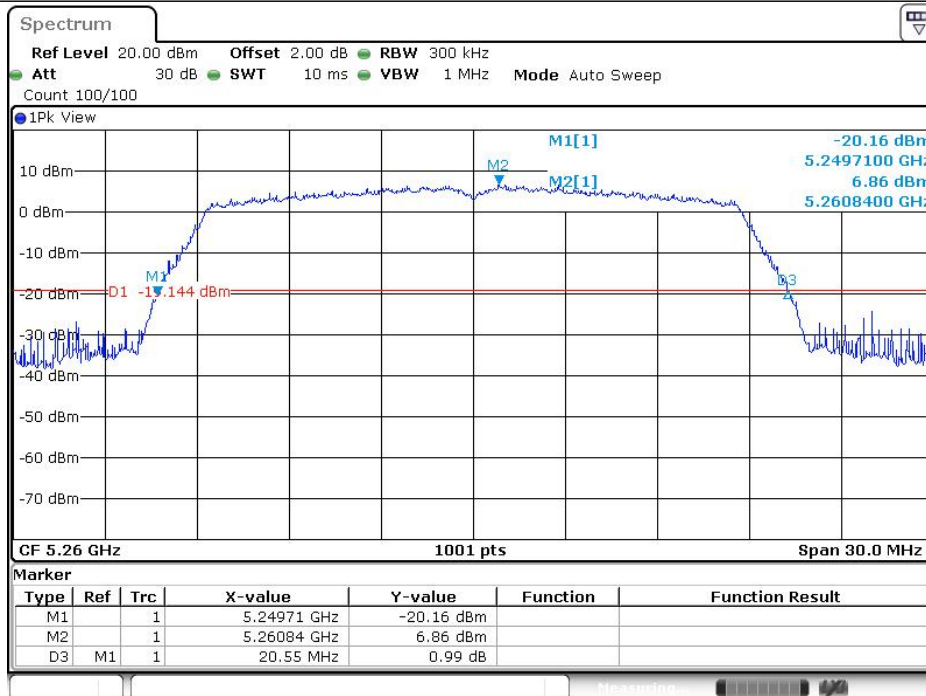
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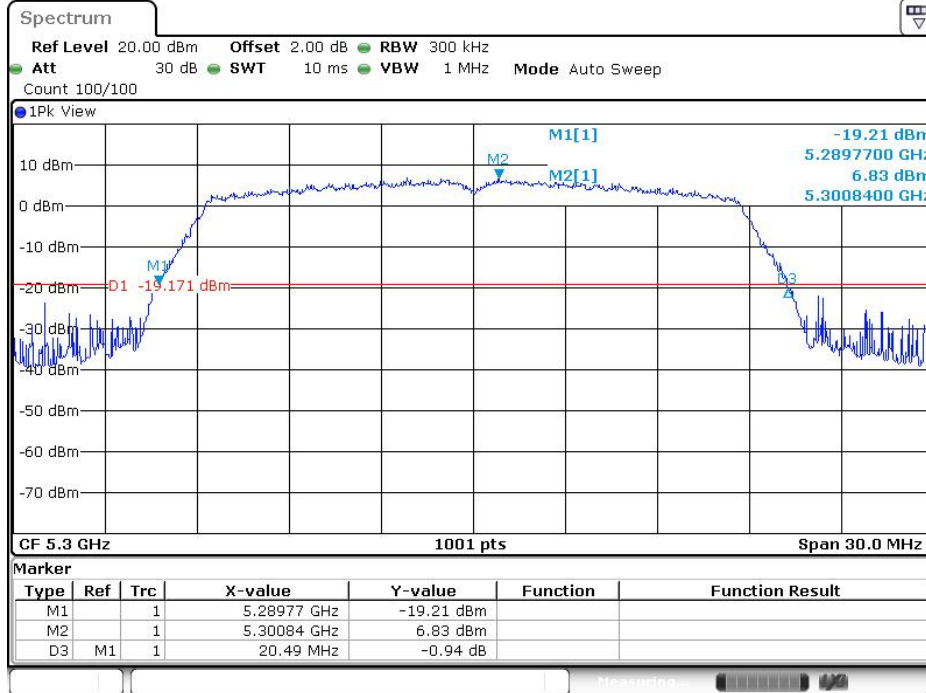
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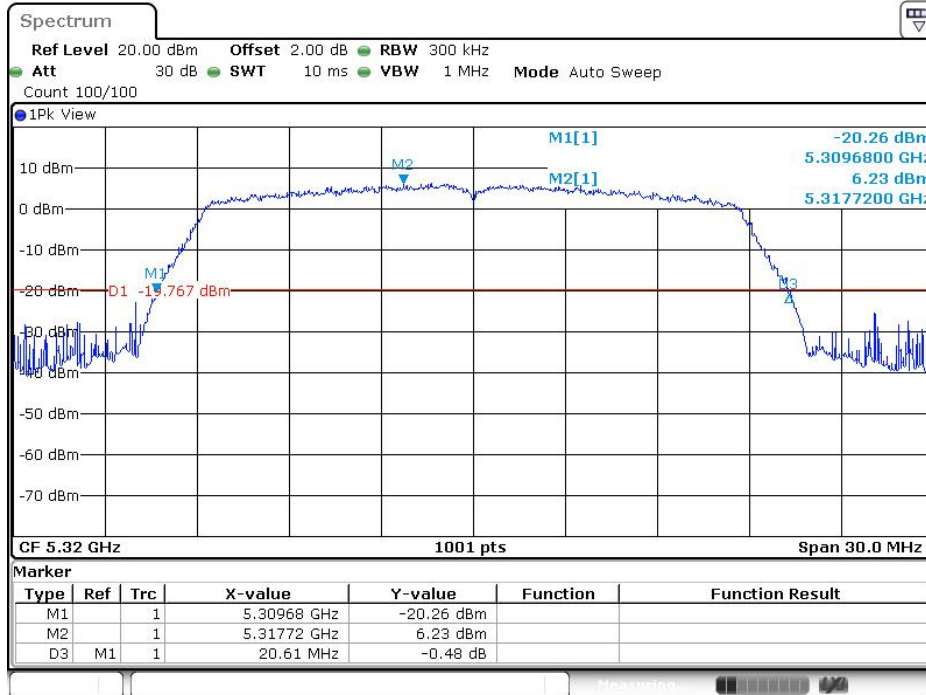
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