

RF Test Data for 5G Wi-Fi (Conducted Measurements)

General Description of EUT	
EUT Name:	AP5811SA
Model:	AP5811SA
Sample ID:	HC-C-202503-0077-01-01
Test Standard:	FCC Part 15.407
Environmental Conditions	
Ambient Temperature:	25°C
Ambient Humidity:	45%RH
Test Power Supply:	DC 3.3V
Test Engineer:	Gold zhang
Note: For a more detailed features description, please refer to the report TBR-C-202503-0077-42	

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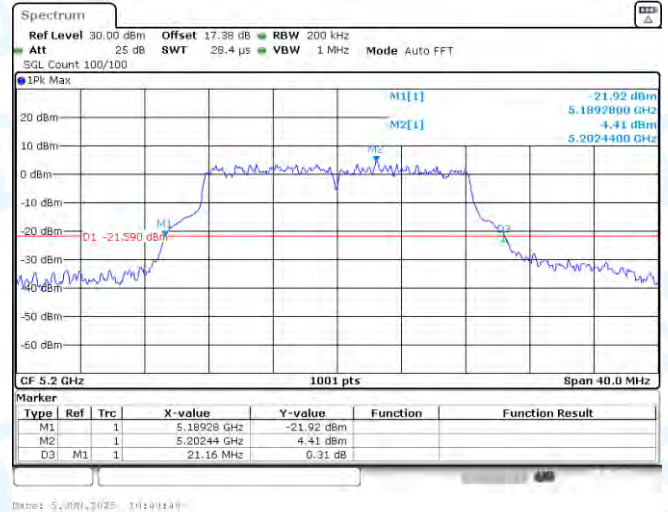
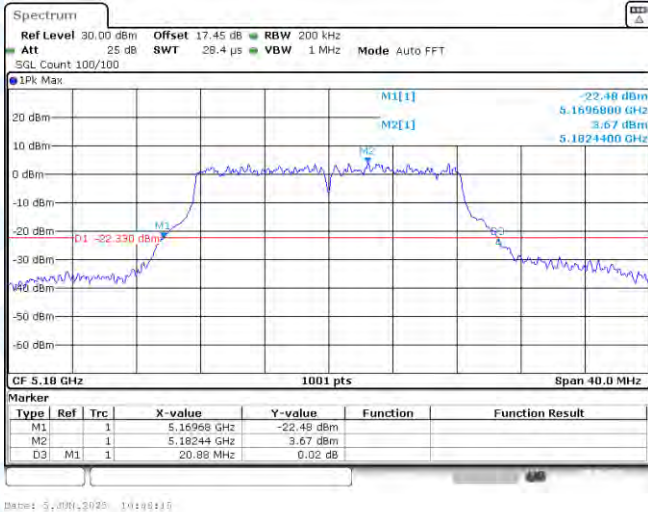
1: Emission Bandwidth

1.1 Test Result

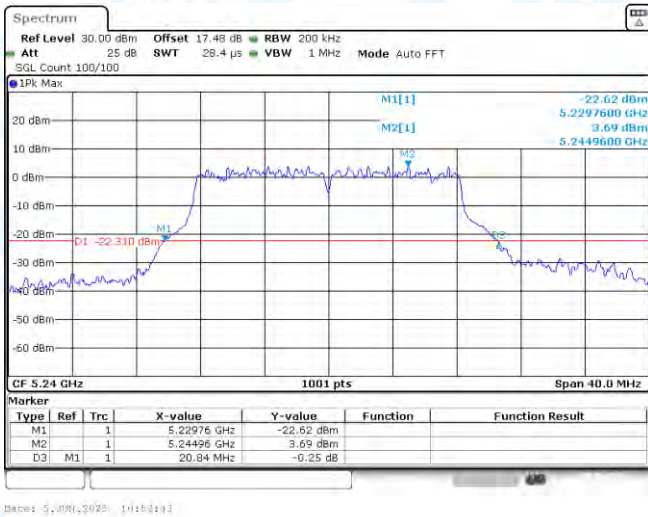
TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.88	5169.68	5190.56	---	---
11A	Ant1	5200	21.16	5189.28	5210.44	---	---
11A	Ant1	5240	20.84	5229.76	5250.60	---	---
11A	Ant1	5260	20.88	5249.52	5270.40	---	---
11A	Ant1	5280	20.44	5270.08	5290.52	---	---
11A	Ant1	5320	21.04	5309.48	5330.52	---	---
11A	Ant1	5500	20.92	5489.48	5510.40	---	---
11A	Ant1	5580	21.12	5569.36	5590.48	---	---
11A	Ant1	5720	20.84	5709.60	5730.44	---	---
11A	Ant1	5720_UNII-2C	15.4	5709.60	5725	---	---
11A	Ant1	5720_UNII-3	5.44	5725	5730.44	---	---
11N20SISO	Ant1	5180	21.20	5169.44	5190.64	---	---
11N20SISO	Ant1	5200	21.16	5189.44	5210.60	---	---
11N20SISO	Ant1	5240	21.24	5229.28	5250.52	---	---
11N20SISO	Ant1	5260	21.20	5249.16	5270.36	---	---
11N20SISO	Ant1	5280	21.12	5269.32	5290.44	---	---
11N20SISO	Ant1	5320	21.12	5309.40	5330.52	---	---
11N20SISO	Ant1	5500	20.88	5489.48	5510.36	---	---
11N20SISO	Ant1	5580	21.20	5569.48	5590.68	---	---
11N20SISO	Ant1	5720	21.12	5709.44	5730.56	---	---
11N20SISO	Ant1	5720_UNII-2C	15.56	5709.44	5725	---	---
11N20SISO	Ant1	5720_UNII-3	5.56	5725	5730.56	---	---
11N20SISO	Ant1	5745	21.32	5734.44	5755.76	---	---
11N40SISO	Ant1	5190	39.44	5170.24	5209.68	---	---
11N40SISO	Ant1	5230	39.36	5210.32	5249.68	---	---
11N40SISO	Ant1	5270	39.52	5250.16	5289.68	---	---
11N40SISO	Ant1	5310	39.44	5290.24	5329.68	---	---
11N40SISO	Ant1	5510	39.60	5490.24	5529.84	---	---
11N40SISO	Ant1	5550	39.36	5530.32	5569.68	---	---
11N40SISO	Ant1	5710	39.28	5690.32	5729.60	---	---
11N40SISO	Ant1	5710_UNII-2C	34.68	5690.32	5725	---	---
11N40SISO	Ant1	5710_UNII-3	4.6	5725	5729.60	---	---
11AC20SISO	Ant1	5180	21.52	5169.24	5190.76	---	---
11AC20SISO	Ant1	5200	21.00	5189.36	5210.36	---	---
11AC20SISO	Ant1	5240	21.08	5229.44	5250.52	---	---
11AC20SISO	Ant1	5260	21.24	5249.36	5270.60	---	---
11AC20SISO	Ant1	5280	21.04	5269.60	5290.64	---	---
11AC20SISO	Ant1	5320	21.28	5309.24	5330.52	---	---
11AC20SISO	Ant1	5500	21.08	5489.36	5510.44	---	---
11AC20SISO	Ant1	5580	21.24	5569.40	5590.64	---	---
11AC20SISO	Ant1	5720	21.52	5709.20	5730.72	---	---

11AC20SISO	Ant1	5720_UNII-2C	15.8	5709.20	5725	---	---
11AC20SISO	Ant1	5720_UNII-3	5.72	5725	5730.72	---	---
11AC40SISO	Ant1	5190	42.00	5168.96	5210.96	---	---
11AC40SISO	Ant1	5230	41.76	5209.36	5251.12	---	---
11AC40SISO	Ant1	5270	41.76	5249.12	5290.88	---	---
11AC40SISO	Ant1	5310	41.20	5289.44	5330.64	---	---
11AC40SISO	Ant1	5510	40.88	5489.44	5530.32	---	---
11AC40SISO	Ant1	5550	41.92	5529.28	5571.20	---	---
11AC40SISO	Ant1	5710	41.76	5689.36	5731.12	---	---
11AC40SISO	Ant1	5710_UNII-2C	35.64	5689.36	5725	---	---
11AC40SISO	Ant1	5710_UNII-3	6.12	5725	5731.12	---	---
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11AC80SISO	Ant1	5290	83.04	5250.00	5333.04	---	---
11AC80SISO	Ant1	5530	83.84	5488.88	5572.72	---	---
11AC80SISO	Ant1	5610	83.36	5568.72	5652.08	---	---
11AC80SISO	Ant1	5690	82.88	5649.52	5732.40	---	---
11AC80SISO	Ant1	5690_UNII-2C	75.48	5649.52	5725	---	---
11AC80SISO	Ant1	5690_UNII-3	7.4	5725	5732.40	---	---
11AX20SISO	Ant1	5180	20.80	5169.56	5190.36	---	---
11AX20SISO	Ant1	5200	20.88	5189.52	5210.40	---	---
11AX20SISO	Ant1	5240	20.92	5229.48	5250.40	---	---
11AX20SISO	Ant1	5260	20.80	5249.60	5270.40	---	---
11AX20SISO	Ant1	5280	20.88	5269.48	5290.36	---	---
11AX20SISO	Ant1	5320	20.68	5309.60	5330.28	---	---
11AX20SISO	Ant1	5500	20.64	5489.64	5510.28	---	---
11AX20SISO	Ant1	5580	20.76	5569.56	5590.32	---	---
11AX20SISO	Ant1	5720	20.88	5709.52	5730.40	---	---
11AX20SISO	Ant1	5720_UNII-2C	15.48	5709.52	5725	---	---
11AX20SISO	Ant1	5720_UNII-3	5.4	5725	5730.40	---	---
11AX40SISO	Ant1	5190	39.68	5170.16	5209.84	---	---
11AX40SISO	Ant1	5230	39.68	5210.24	5249.92	---	---
11AX40SISO	Ant1	5270	39.36	5250.32	5289.68	---	---
11AX40SISO	Ant1	5310	39.52	5290.24	5329.76	---	---
11AX40SISO	Ant1	5510	39.52	5490.16	5529.68	---	---
11AX40SISO	Ant1	5550	39.52	5530.32	5569.84	---	---
11AX40SISO	Ant1	5710	39.44	5690.16	5729.60	---	---
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11AX40SISO	Ant1	5710_UNII-3	4.6	5725	5729.60	---	---
11AX80SISO	Ant1	5210	84.16	5167.76	5251.92	---	---
11AX80SISO	Ant1	5290	85.12	5247.44	5332.56	---	---
11AX80SISO	Ant1	5530	82.88	5489.68	5572.56	---	---
11AX80SISO	Ant1	5610	83.36	5567.76	5651.12	---	---
11AX80SISO	Ant1	5690	83.36	5648.88	5732.24	---	---
11AX80SISO	Ant1	5690_UNII-2C	76.12	5648.88	5725	---	---
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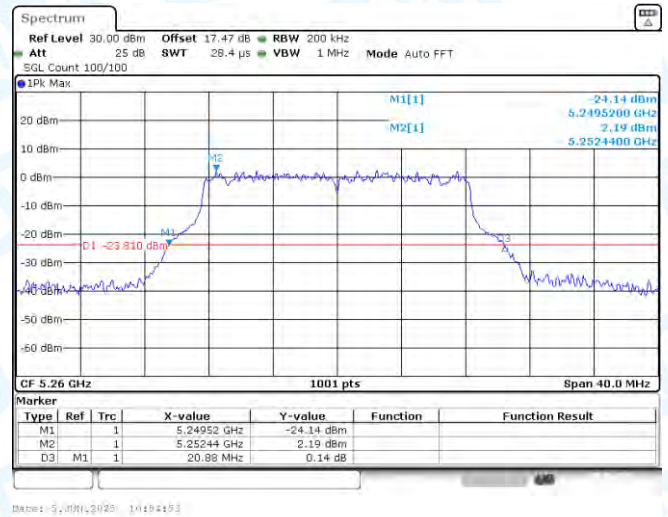
1.2 Test Graphs



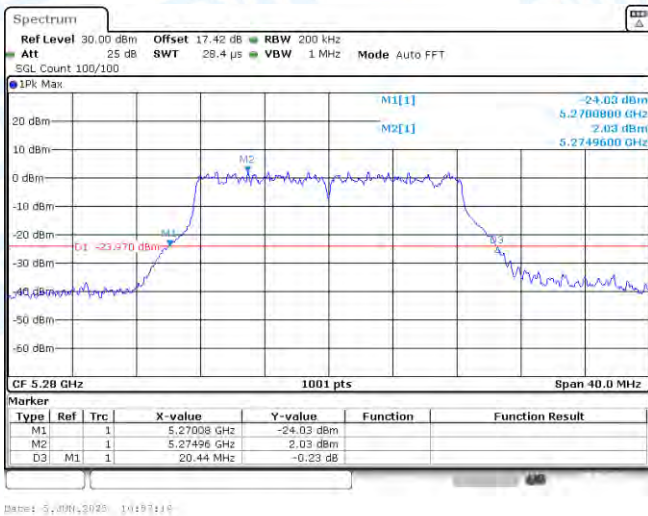
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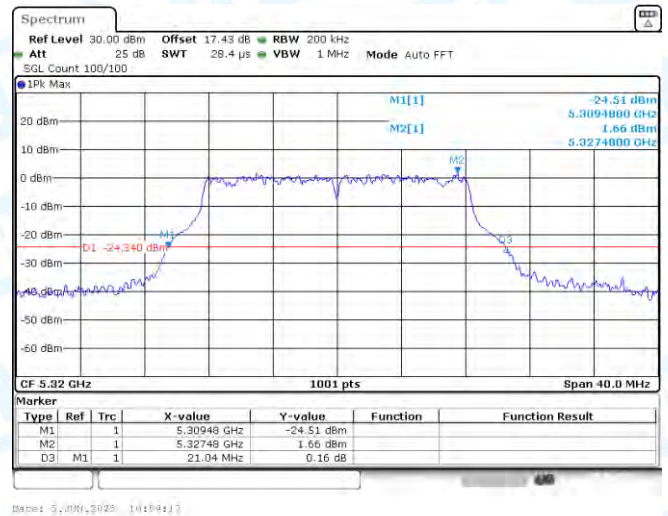
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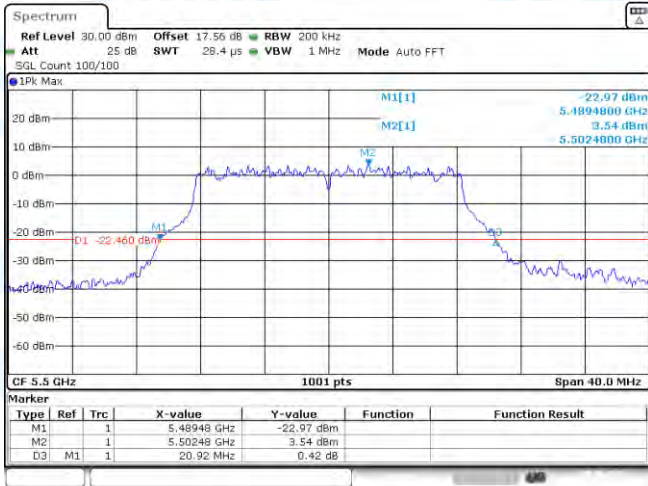


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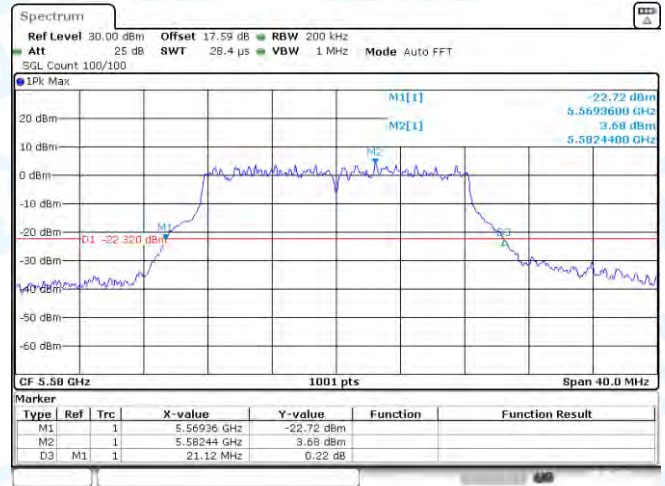


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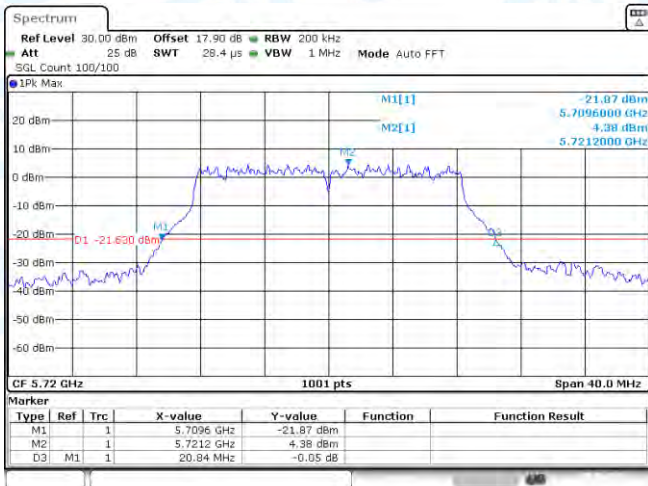
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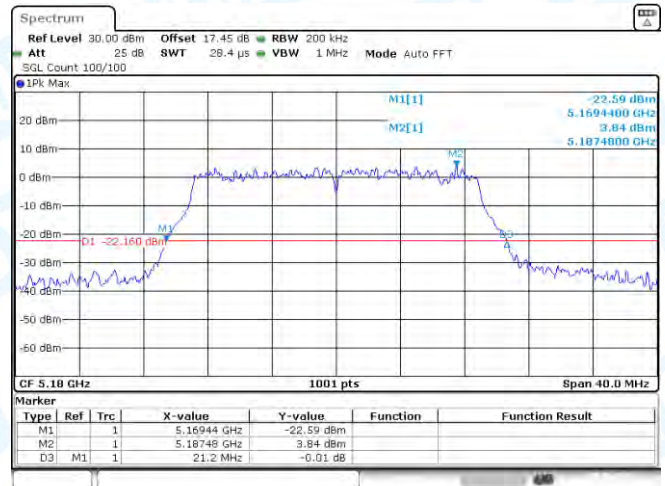
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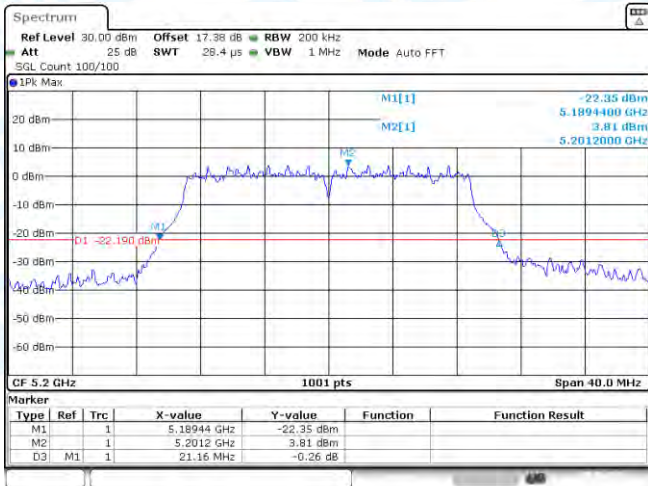
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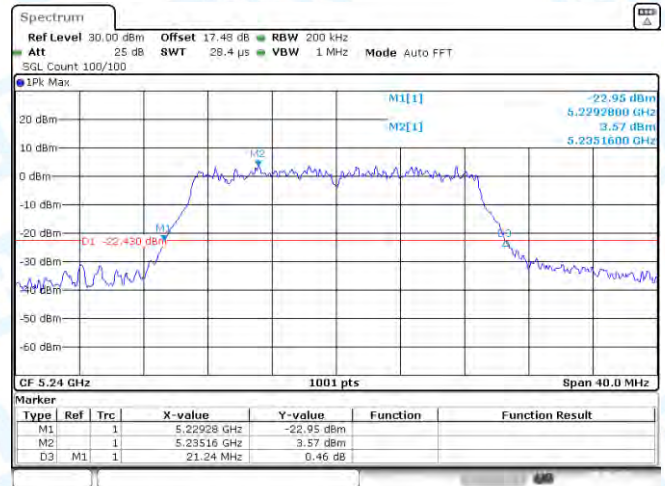
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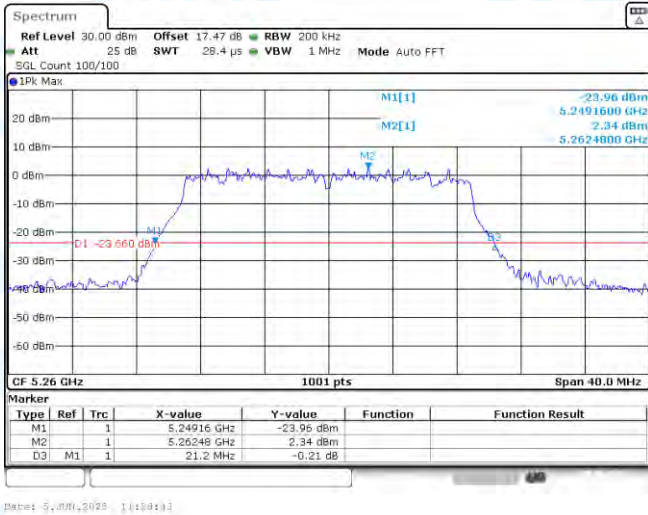
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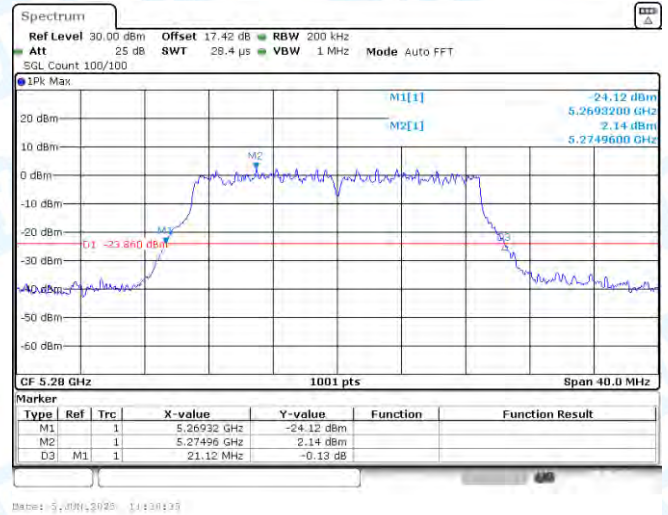
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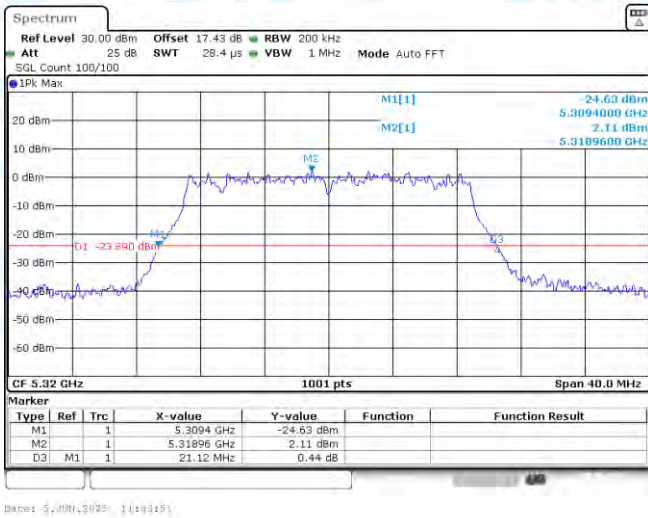
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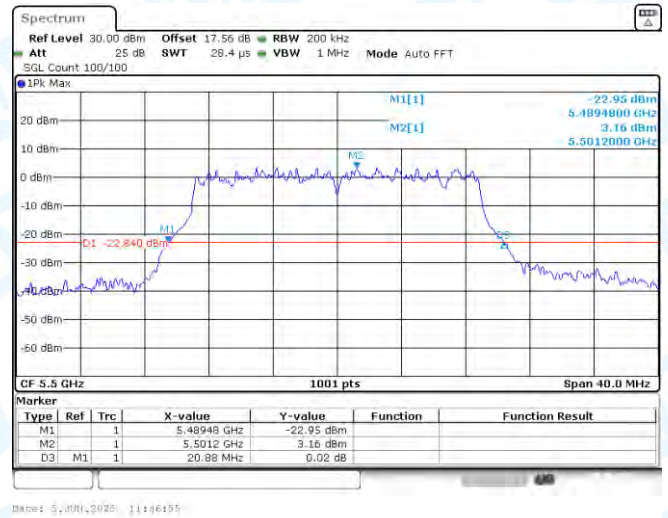
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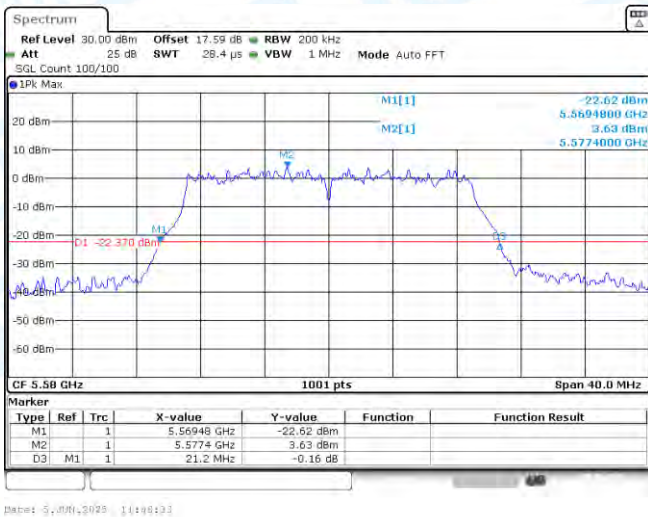
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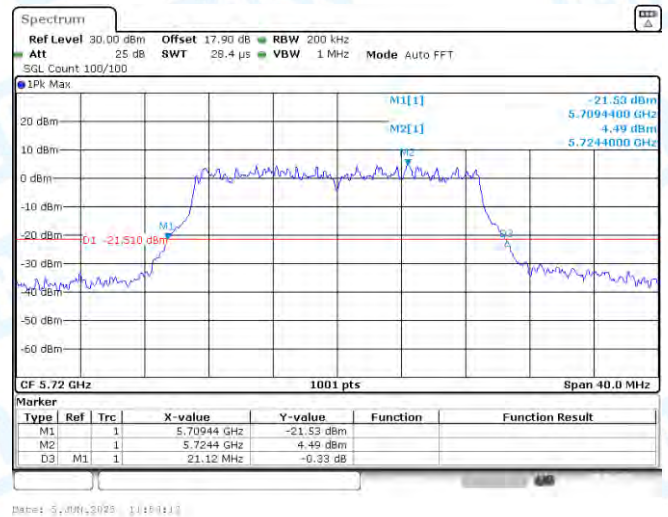
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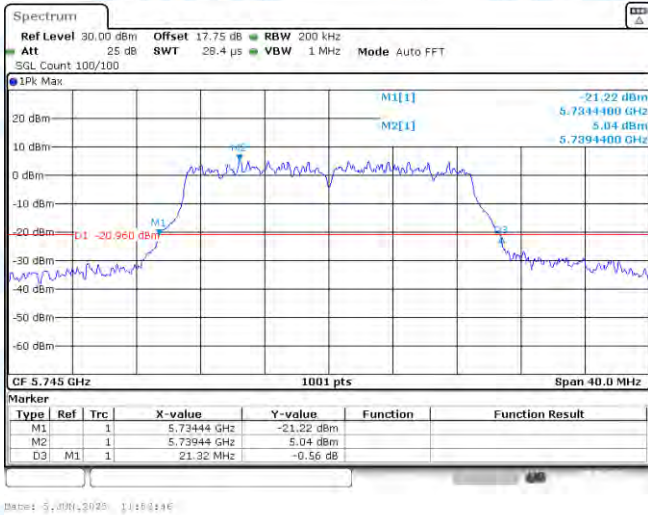
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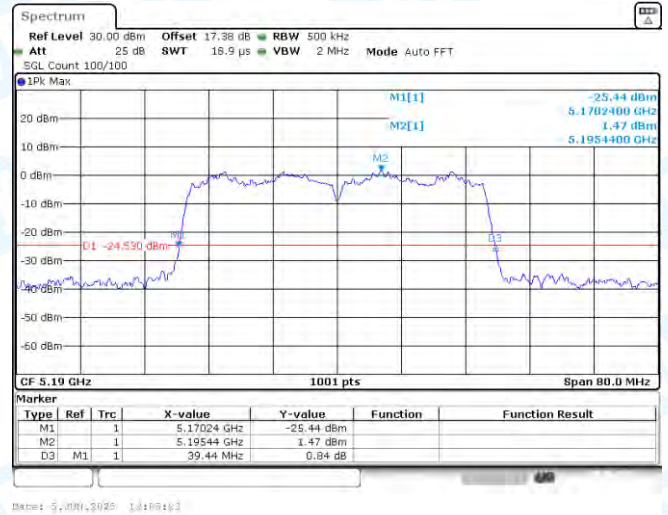
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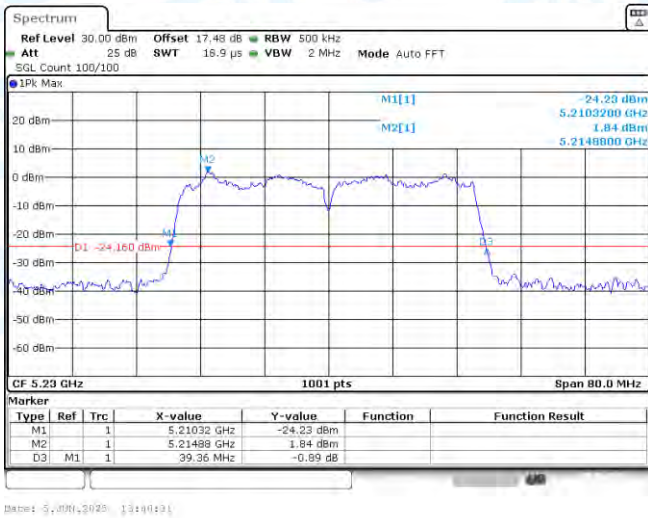
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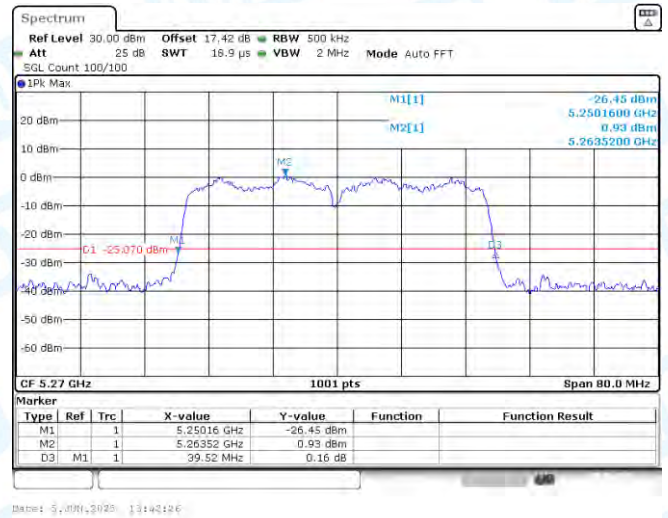
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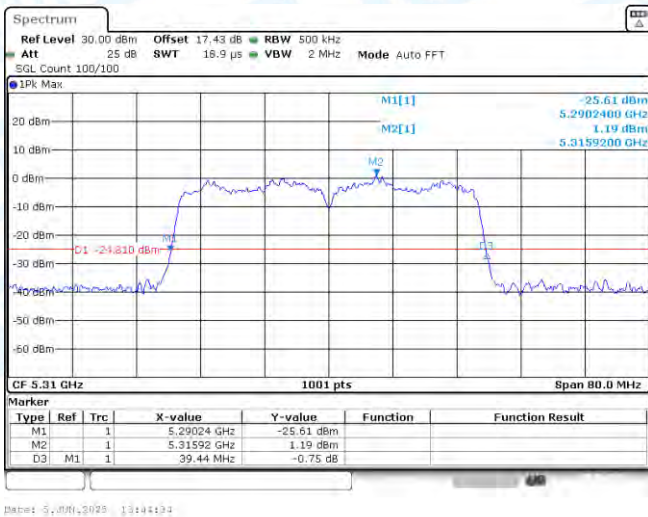
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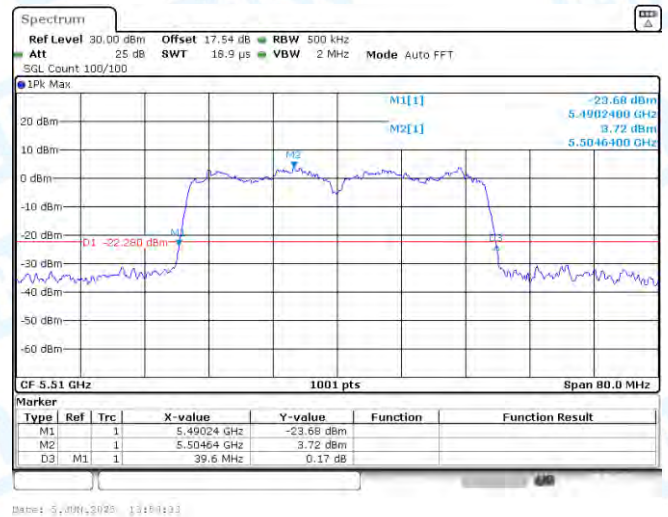
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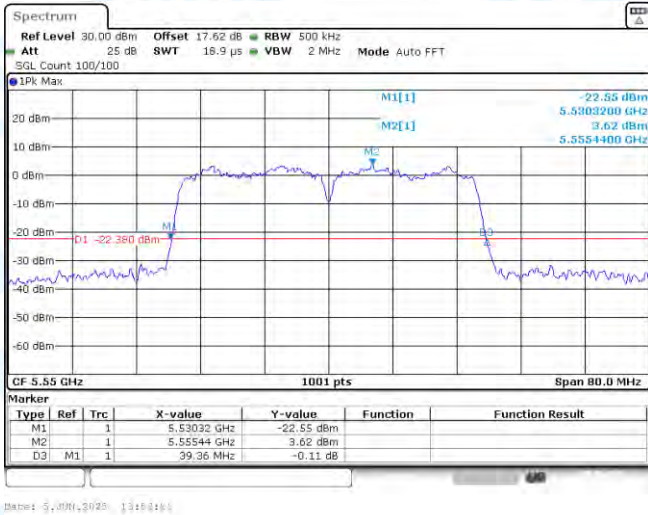
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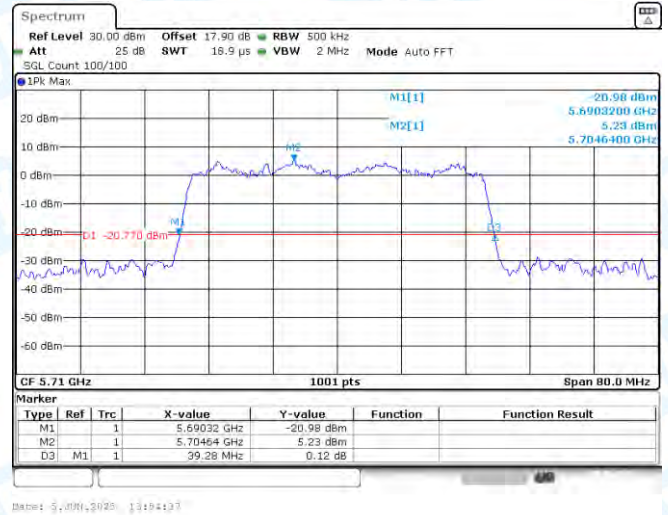
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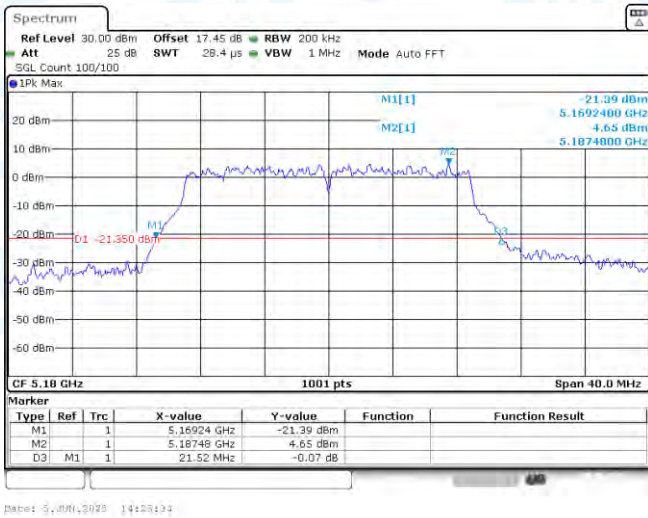
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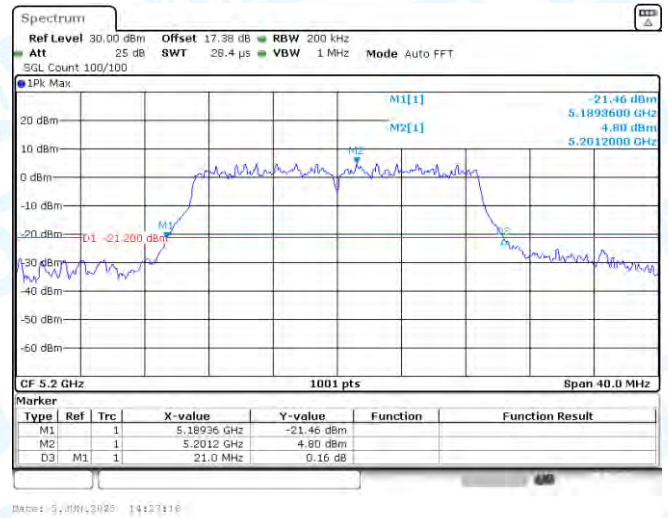
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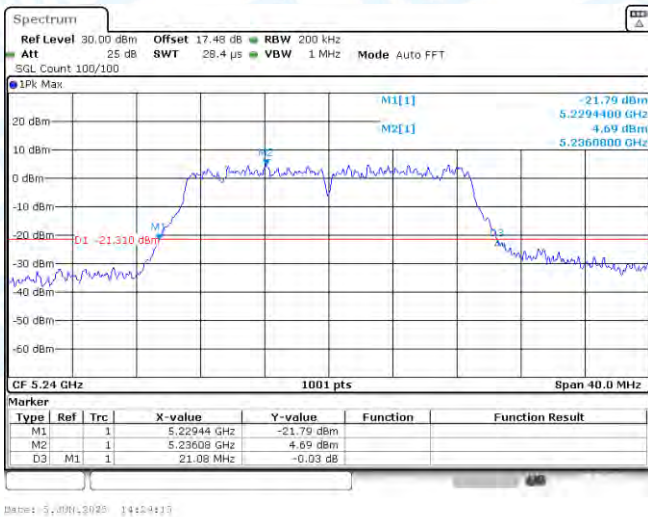
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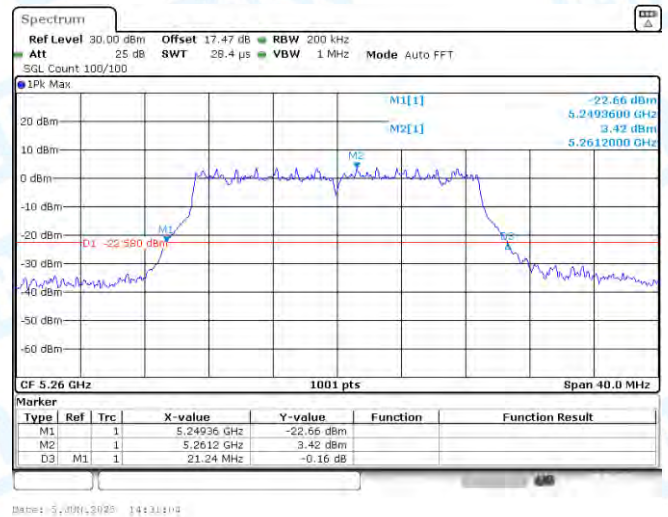
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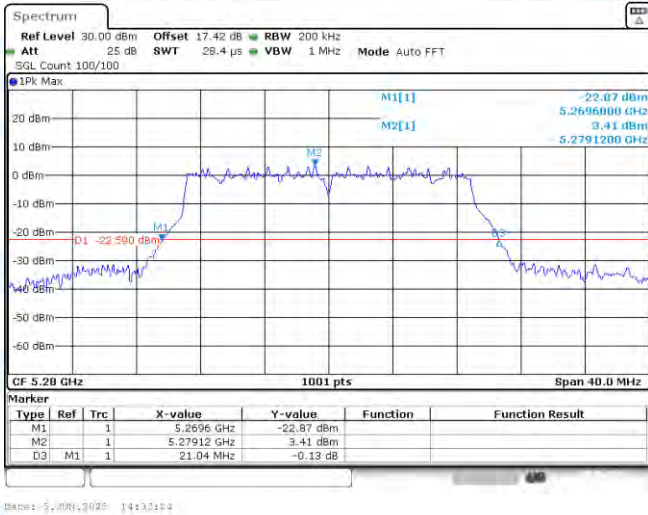
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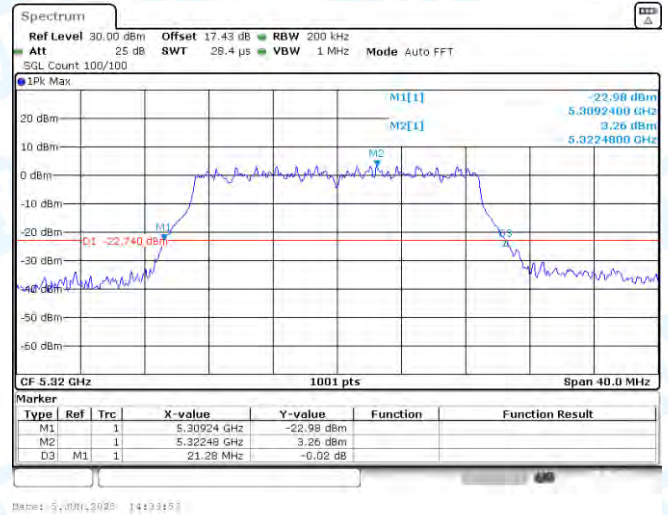
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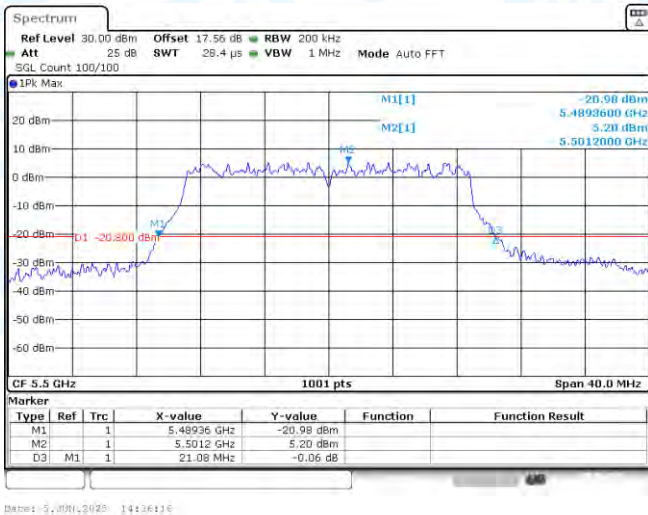
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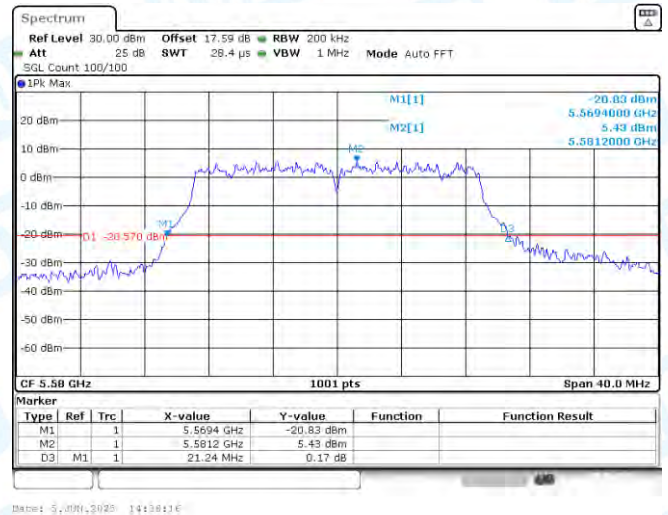
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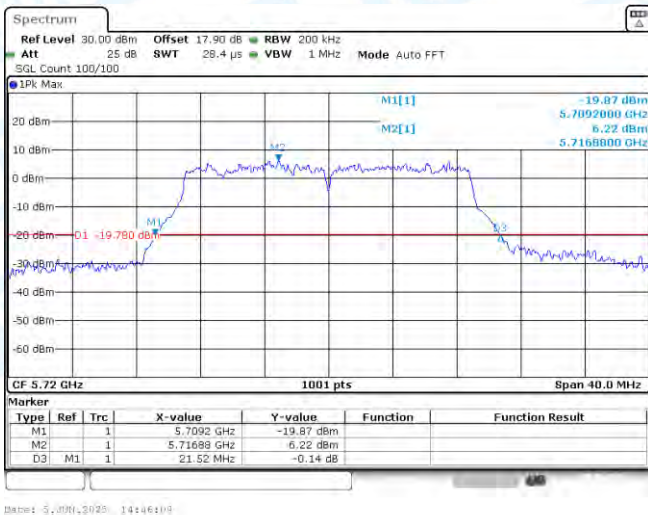
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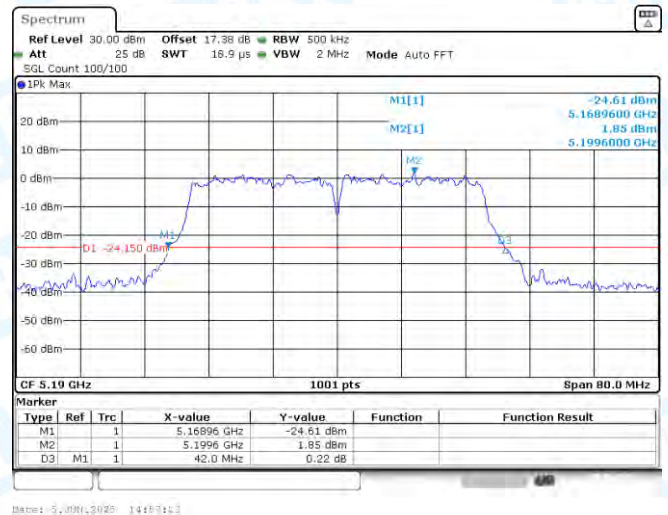
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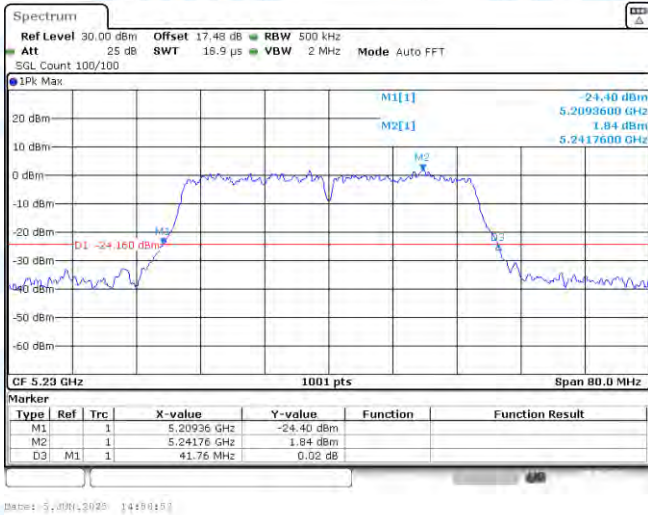
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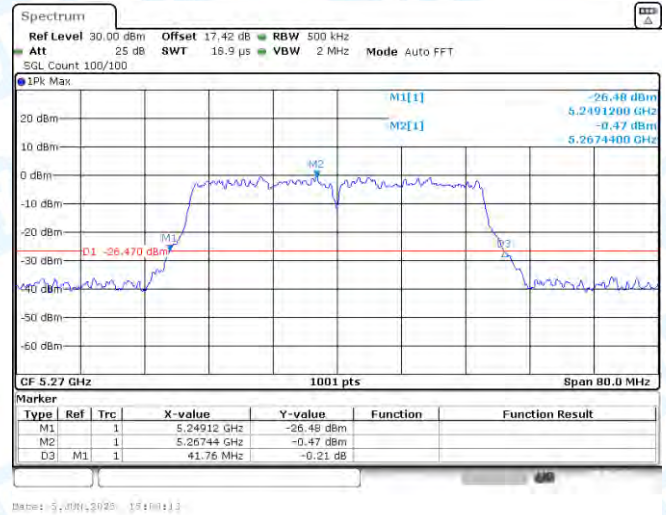
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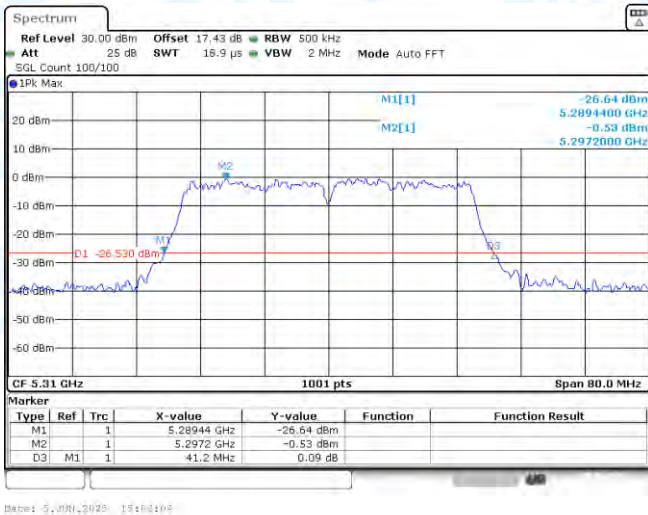
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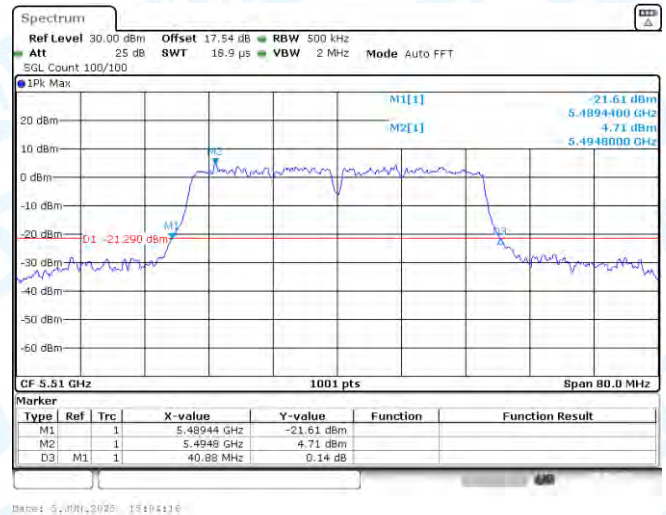
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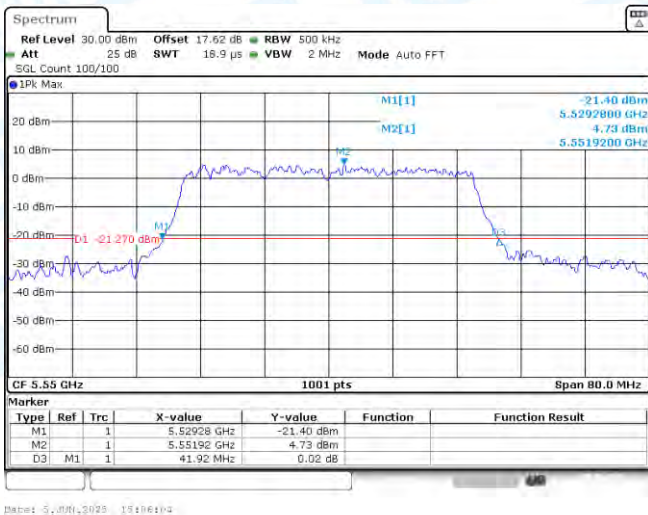
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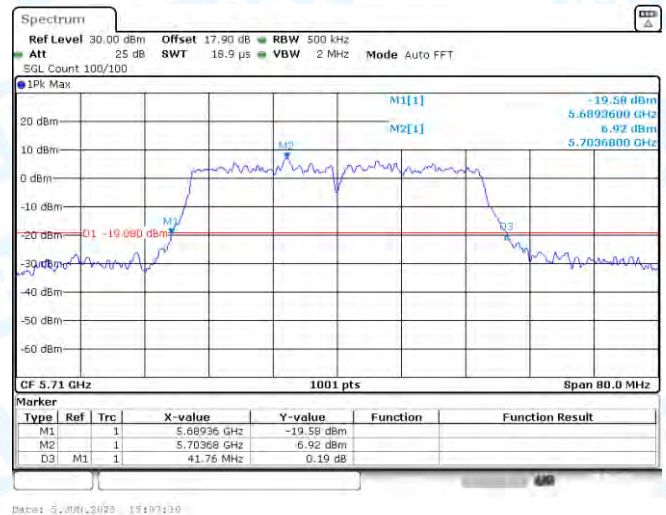
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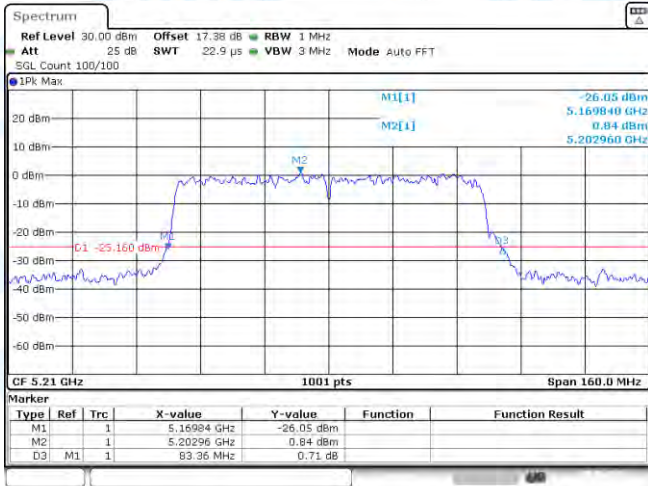
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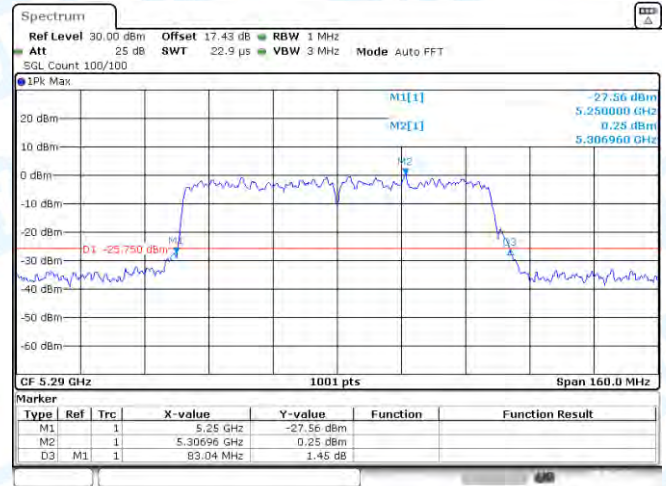
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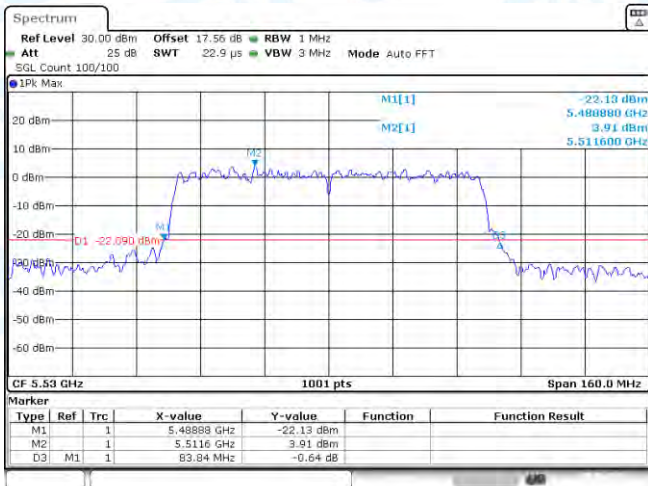
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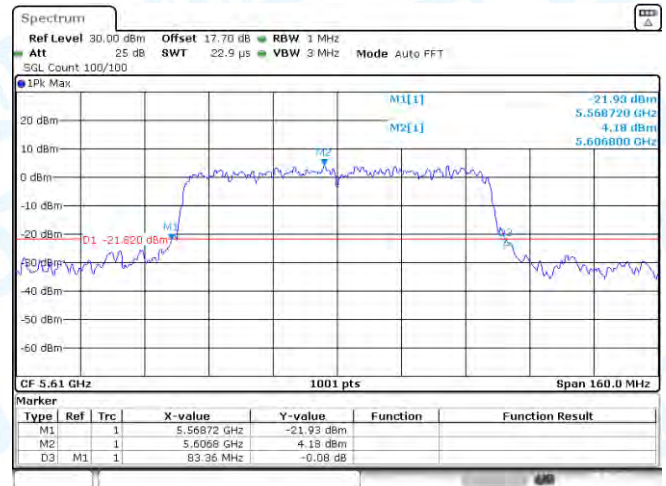
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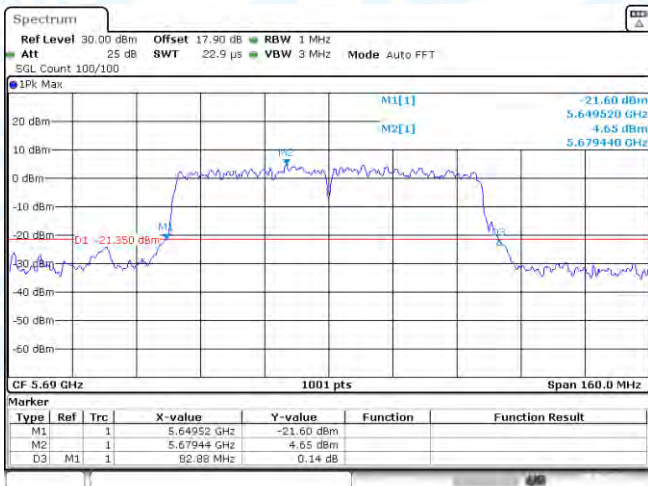
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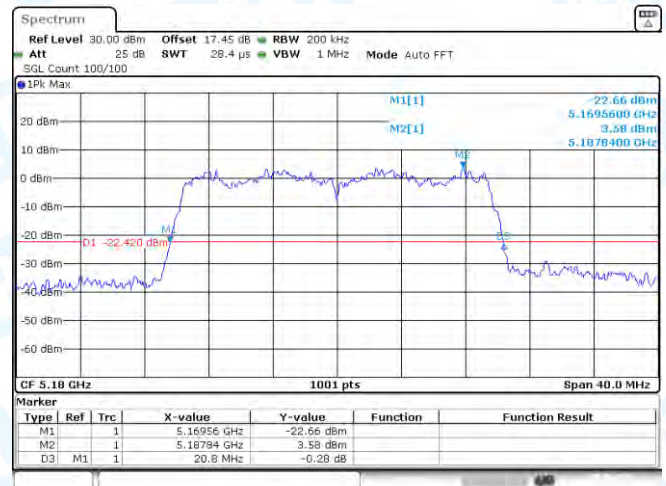
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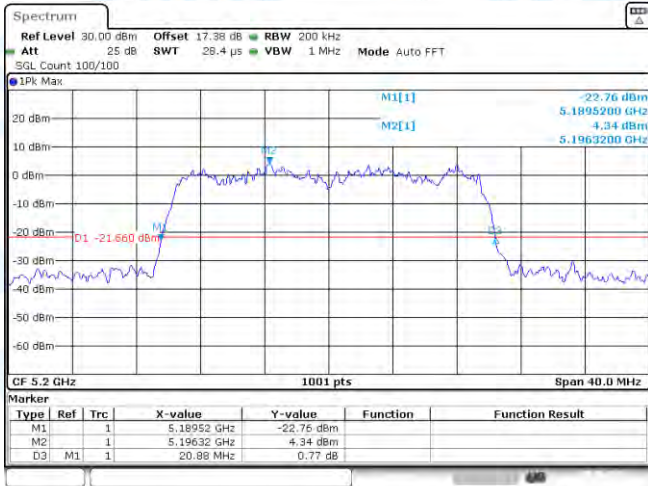
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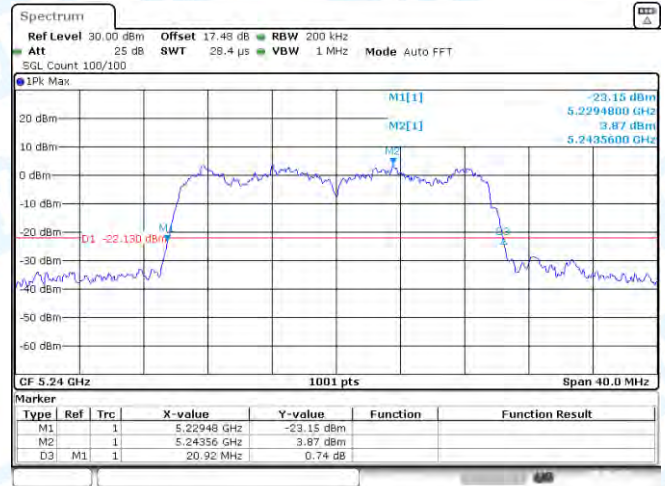
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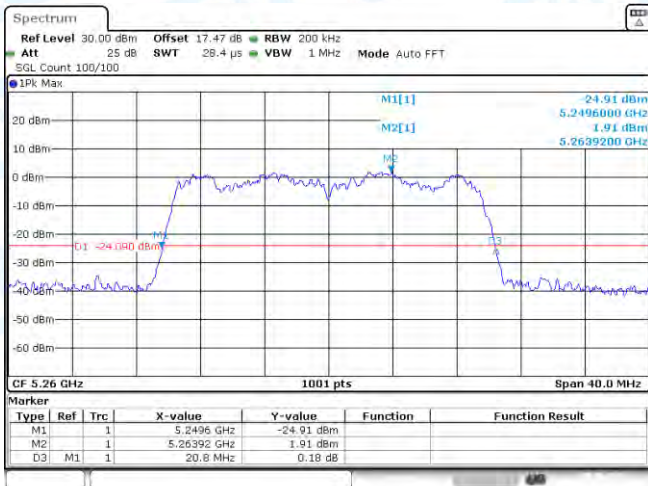
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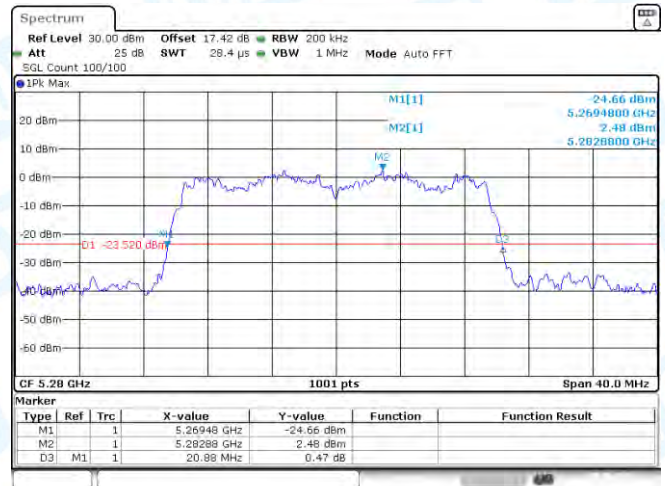
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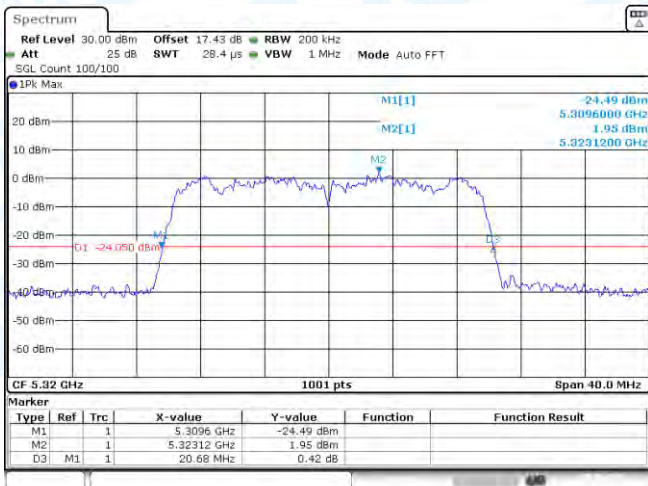
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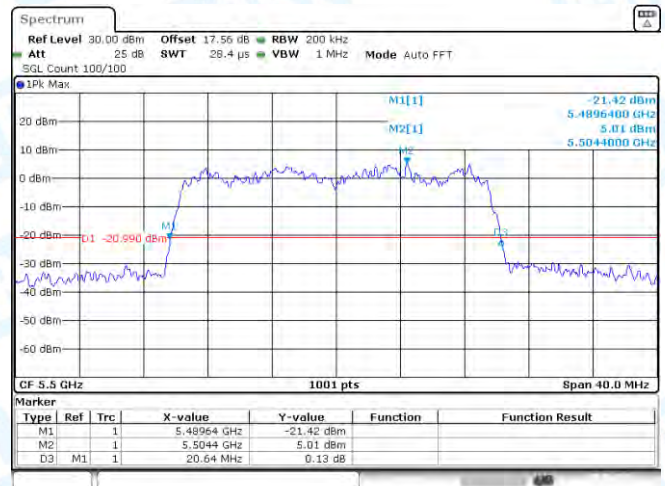
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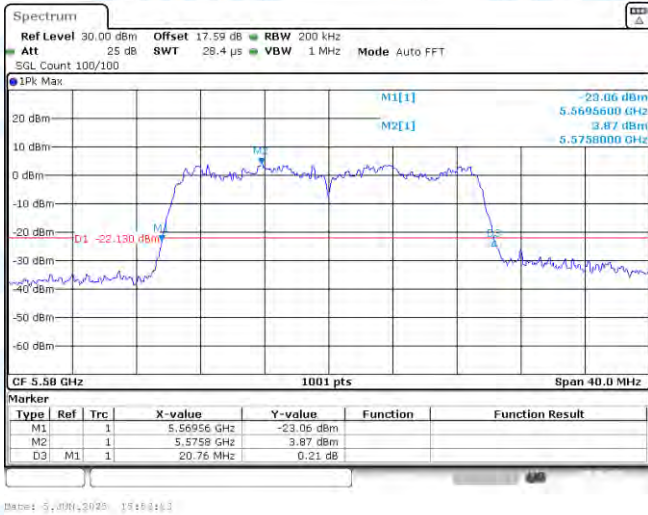
11AX20SISO-Ant1-5280



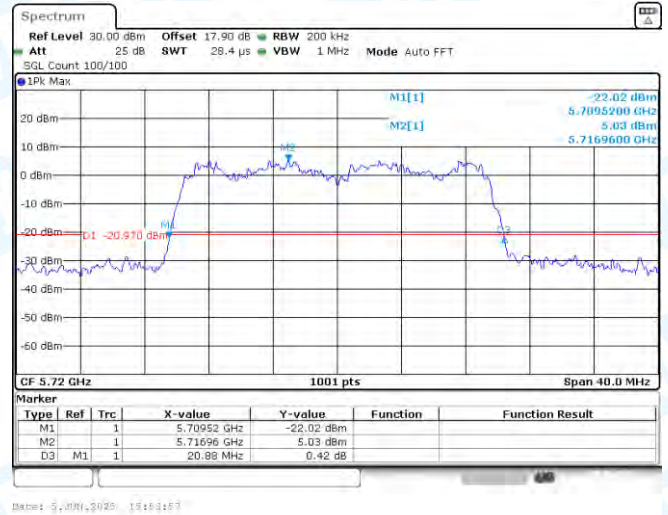
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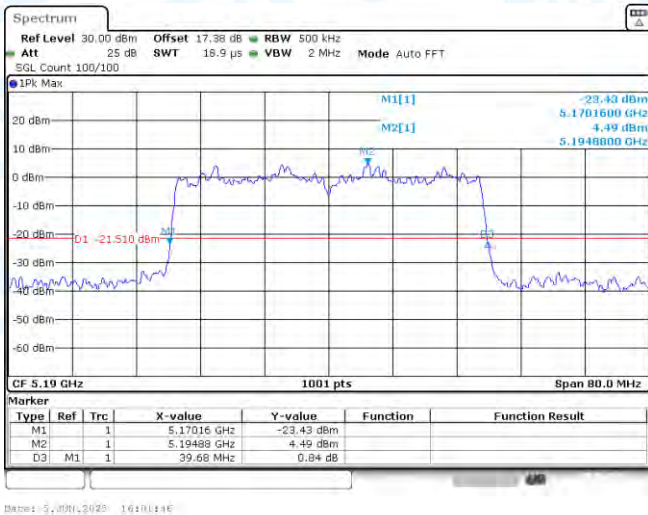
11AX20SISO-Ant1-5500



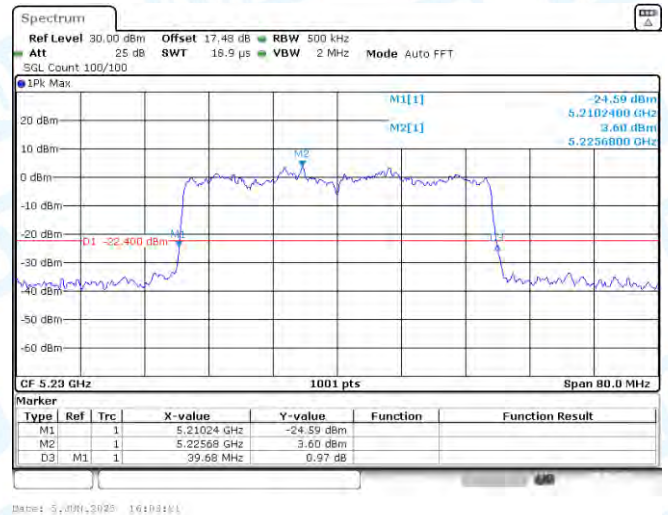
11AX20ISO-Ant1-5580



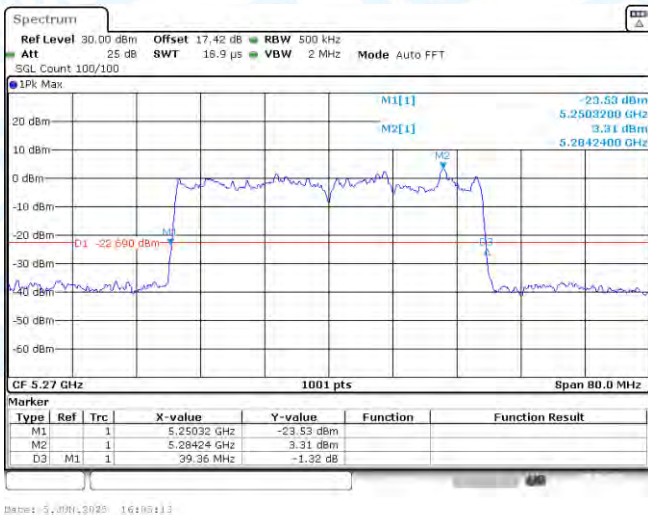
11AX20ISO-Ant1-5720



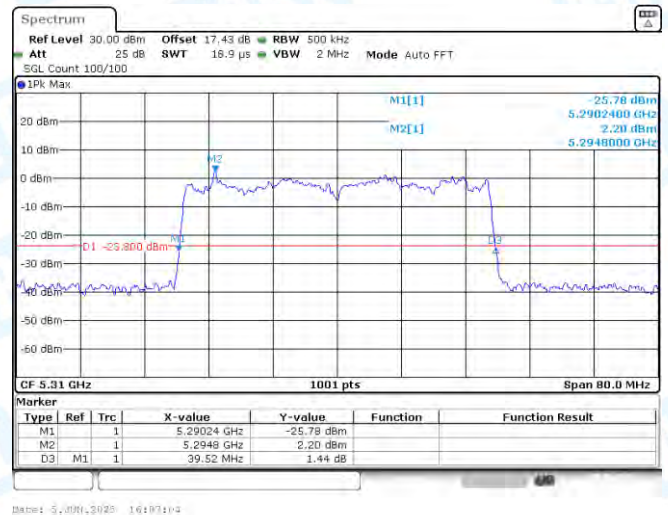
11AX20ISO-Ant1-5580



11AX20ISO-Ant1-5720



11AX40ISO-Ant1-5190



11AX40ISO-Ant1-5230

11AX40ISO-Ant1-5270

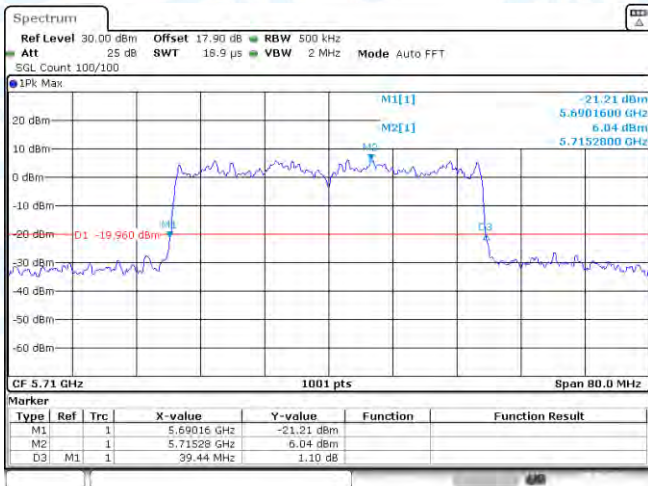
11AX40ISO-Ant1-5310



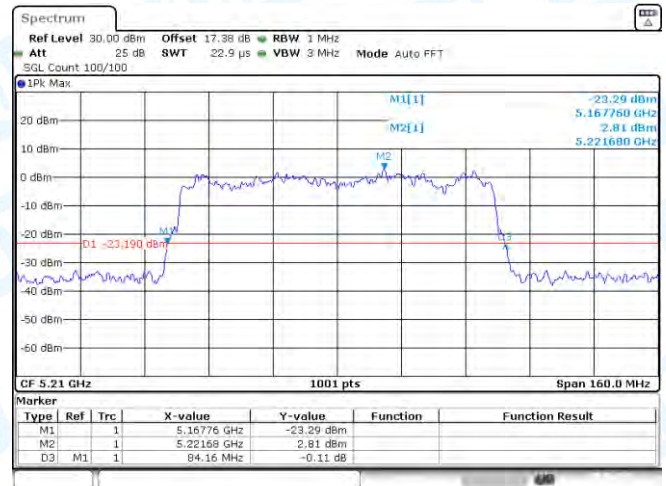
11AX40SISO-Ant1-5510



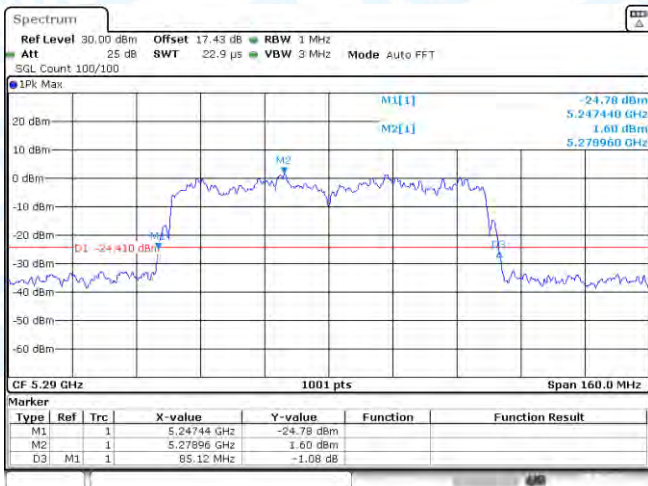
11AX40SISO-Ant1-5550



11AX40SISO-Ant1-5710



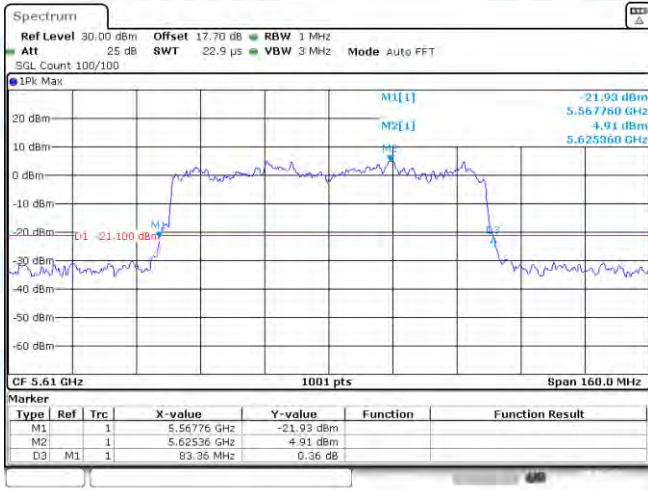
11AX80SISO-Ant1-5210



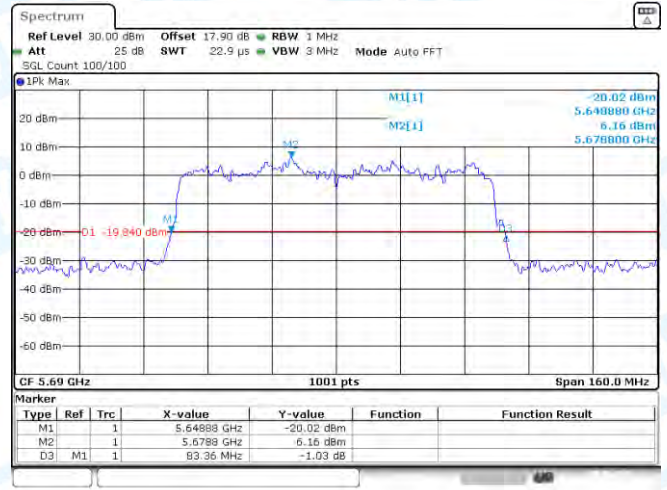
11AX80SISO-Ant1-5290



11AX80SISO-Ant1-5530



11AX80SISO-Ant1-5610



11AX80SISO-Ant1-5690

Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

2: Occupied channel bandwidth

2.1 Test Result

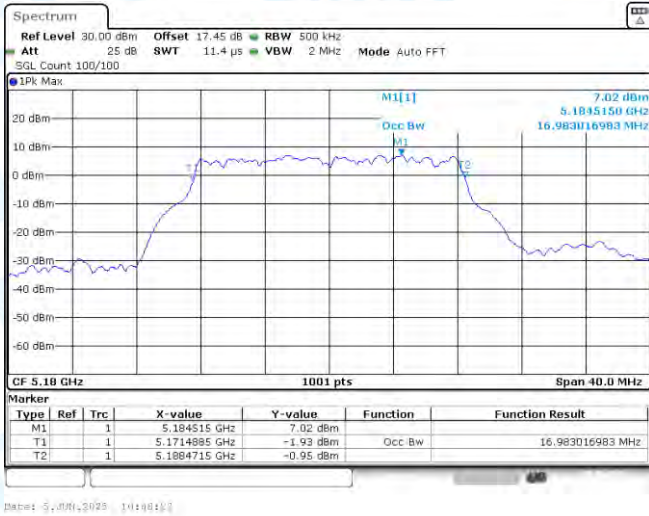
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.983	5171.4885	5188.4715	---	---
11A	Ant1	5200	17.463	5191.2088	5208.6713	---	---
11A	Ant1	5240	17.143	5231.4086	5248.5514	---	---
11A	Ant1	5260	17.143	5251.2887	5268.4316	---	---
11A	Ant1	5280	17.662	5271.1289	5288.7912	---	---
11A	Ant1	5320	17.303	5311.3686	5328.6713	---	---
11A	Ant1	5500	17.023	5491.4486	5508.4715	---	---
11A	Ant1	5580	17.103	5571.3287	5588.4316	---	---
11A	Ant1	5720	17.263	5711.3686	5728.6314	---	---
11A	Ant1	5720_UNII-2C	13.631	5711.3686	5725	---	---
11A	Ant1	5720_UNII-3	3.631	5725	5728.6314	---	---
11A	Ant1	5745	17.223	5736.2488	5753.4715	---	---
11A	Ant1	5785	17.303	5776.1688	5793.4715	---	---
11A	Ant1	5825	17.343	5816.4086	5833.7512	---	---
11N20SISO	Ant1	5180	18.102	5170.8092	5188.9111	---	---
11N20SISO	Ant1	5200	18.022	5190.9690	5208.9910	---	---
11N20SISO	Ant1	5240	18.342	5230.7692	5249.1109	---	---
11N20SISO	Ant1	5260	18.222	5250.7692	5268.9910	---	---
11N20SISO	Ant1	5280	18.262	5270.8891	5289.1508	---	---
11N20SISO	Ant1	5320	18.102	5310.9291	5329.0310	---	---
11N20SISO	Ant1	5500	18.422	5490.9291	5509.3506	---	---
11N20SISO	Ant1	5580	18.062	5570.9291	5588.9910	---	---
11N20SISO	Ant1	5720	18.342	5710.6893	5729.0310	---	---
11N20SISO	Ant1	5720_UNII-2C	14.311	5710.6893	5725	---	---
11N20SISO	Ant1	5720_UNII-3	4.031	5725	5729.0310	---	---
11N20SISO	Ant1	5745	18.182	5735.9291	5754.1109	---	---
11N20SISO	Ant1	5785	18.102	5775.8492	5793.9510	---	---
11N20SISO	Ant1	5825	18.342	5816.0090	5834.3506	---	---
11N40SISO	Ant1	5190	36.683	5171.5385	5208.2218	---	---
11N40SISO	Ant1	5230	36.683	5211.6983	5248.3816	---	---
11N40SISO	Ant1	5270	36.763	5251.5385	5288.3017	---	---
11N40SISO	Ant1	5310	36.364	5291.7782	5328.1419	---	---
11N40SISO	Ant1	5510	36.683	5491.5385	5528.2218	---	---
11N40SISO	Ant1	5550	36.843	5531.6184	5568.4615	---	---
11N40SISO	Ant1	5710	36.683	5691.5385	5728.2218	---	---
11N40SISO	Ant1	5710_UNII-2C	33.462	5691.5385	5725	---	---
11N40SISO	Ant1	5710_UNII-3	3.222	5725	5728.2218	---	---
11N40SISO	Ant1	5755	36.923	5736.4585	5773.3816	---	---
11N40SISO	Ant1	5795	36.683	5776.5385	5813.2218	---	---
11AC20SISO	Ant1	5180	18.342	5170.8092	5189.1508	---	---
11AC20SISO	Ant1	5200	18.222	5190.8492	5209.0709	---	---

11AC20SISO	Ant1	5240	18.222	5230.7293	5248.9510	---	---
11AC20SISO	Ant1	5260	18.142	5250.9291	5269.0709	---	---
11AC20SISO	Ant1	5280	18.262	5270.7692	5289.0310	---	---
11AC20SISO	Ant1	5320	18.142	5310.8492	5328.9910	---	---
11AC20SISO	Ant1	5500	18.302	5491.0490	5509.3506	---	---
11AC20SISO	Ant1	5580	18.342	5570.8492	5589.1908	---	---
11AC20SISO	Ant1	5720	18.222	5710.9291	5729.1508	---	---
11AC20SISO	Ant1	5720_UNII-2C	14.071	5710.9291	5725	---	---
11AC20SISO	Ant1	5720_UNII-3	4.151	5725	5729.1508	---	---
11AC20SISO	Ant1	5745	18.342	5735.6893	5754.0310	---	---
11AC20SISO	Ant1	5785	18.222	5775.9291	5794.1508	---	---
11AC20SISO	Ant1	5825	18.022	5816.0090	5834.0310	---	---
11AC40SISO	Ant1	5190	36.364	5171.8581	5208.2218	---	---
11AC40SISO	Ant1	5230	36.603	5211.6983	5248.3017	---	---
11AC40SISO	Ant1	5270	36.444	5251.6983	5288.1419	---	---
11AC40SISO	Ant1	5310	36.364	5291.8581	5328.2218	---	---
11AC40SISO	Ant1	5510	36.523	5491.6983	5528.2218	---	---
11AC40SISO	Ant1	5550	36.683	5531.6184	5568.3017	---	---
11AC40SISO	Ant1	5710	36.603	5691.6983	5728.3017	---	---
11AC40SISO	Ant1	5710_UNII-2C	33.302	5691.6983	5725	---	---
11AC40SISO	Ant1	5710_UNII-3	3.302	5725	5728.3017	---	---
11AC40SISO	Ant1	5755	36.763	5736.6983	5773.4615	---	---
11AC40SISO	Ant1	5795	36.683	5776.6983	5813.3816	---	---
11AC80SISO	Ant1	5210	77.043	5171.7982	5248.8412	---	---
11AC80SISO	Ant1	5290	76.244	5251.9580	5328.2018	---	---
11AC80SISO	Ant1	5530	75.764	5492.1179	5567.8821	---	---
11AC80SISO	Ant1	5610	75.924	5571.7982	5647.7223	---	---
11AC80SISO	Ant1	5690	75.445	5652.2777	5727.7223	---	---
11AC80SISO	Ant1	5690_UNII-2C	72.722	5652.2777	5725	---	---
11AC80SISO	Ant1	5690_UNII-3	2.722	5725	5727.7223	---	---
11AC80SISO	Ant1	5775	76.563	5736.6384	5813.2018	---	---
11AX20SISO	Ant1	5180	19.061	5170.4496	5189.5105	---	---
11AX20SISO	Ant1	5200	19.381	5190.3297	5209.7103	---	---
11AX20SISO	Ant1	5240	19.421	5230.2498	5249.6703	---	---
11AX20SISO	Ant1	5260	19.021	5250.4496	5269.4705	---	---
11AX20SISO	Ant1	5280	19.341	5270.3696	5289.7103	---	---
11AX20SISO	Ant1	5320	19.141	5310.3297	5329.4705	---	---
11AX20SISO	Ant1	5500	19.221	5490.4895	5509.7103	---	---
11AX20SISO	Ant1	5580	19.341	5570.2498	5589.5904	---	---
11AX20SISO	Ant1	5720	19.061	5710.4496	5729.5105	---	---
11AX20SISO	Ant1	5720_UNII-2C	14.55	5710.4496	5725	---	---
11AX20SISO	Ant1	5720_UNII-3	4.511	5725	5729.5105	---	---
11AX20SISO	Ant1	5745	19.421	5735.2897	5754.7103	---	---
11AX20SISO	Ant1	5785	19.301	5775.3297	5794.6304	---	---
11AX20SISO	Ant1	5825	19.021	5815.4496	5834.4705	---	---

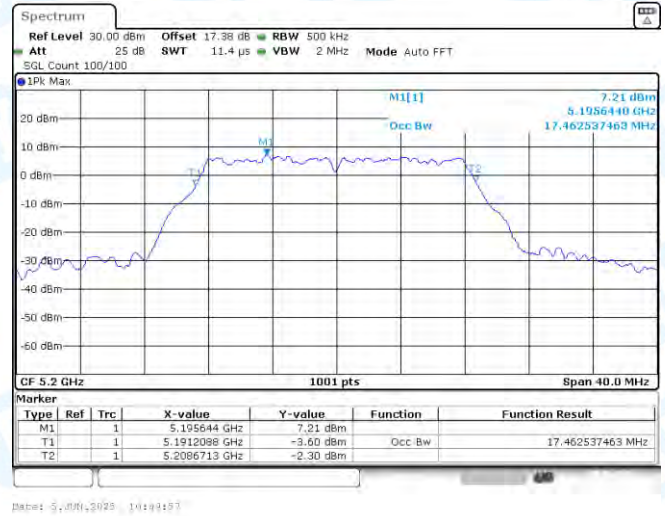
11AX40SISO	Ant1	5190	38.202	5170.7393	5208.9411	---	---
11AX40SISO	Ant1	5230	38.042	5210.9790	5249.0210	---	---
11AX40SISO	Ant1	5270	37.962	5250.9790	5288.9411	---	---
11AX40SISO	Ant1	5310	38.042	5290.8991	5328.9411	---	---
11AX40SISO	Ant1	5510	38.042	5490.8192	5528.8611	---	---
11AX40SISO	Ant1	5550	37.962	5530.9790	5568.9411	---	---
11AX40SISO	Ant1	5710	38.042	5690.8991	5728.9411	---	---
11AX40SISO	Ant1	5710_UNII-2C	34.101	5690.8991	5725	---	---
11AX40SISO	Ant1	5710_UNII-3	3.941	5725	5728.9411	---	---
11AX40SISO	Ant1	5755	38.122	5735.8991	5774.0210	---	---
11AX40SISO	Ant1	5795	37.962	5775.9790	5813.9411	---	---
11AX80SISO	Ant1	5210	78.002	5170.9990	5249.0010	---	---
11AX80SISO	Ant1	5290	77.842	5250.8392	5328.6813	---	---
11AX80SISO	Ant1	5530	77.203	5491.3187	5568.5215	---	---
11AX80SISO	Ant1	5610	78.002	5570.8392	5648.8412	---	---
11AX80SISO	Ant1	5690	78.322	5651.1588	5729.4805	---	---
11AX80SISO	Ant1	5690_UNII-2C	73.841	5651.1588	5725	---	---
11AX80SISO	Ant1	5690_UNII-3	4.48	5725	5729.4805	---	---
11AX80SISO	Ant1	5775	77.522	5736.1588	5813.6813	---	---

Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

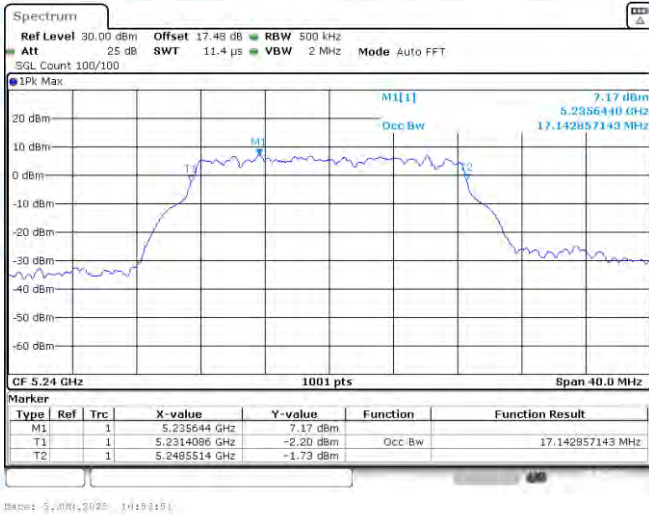
2.2 Test Graphs



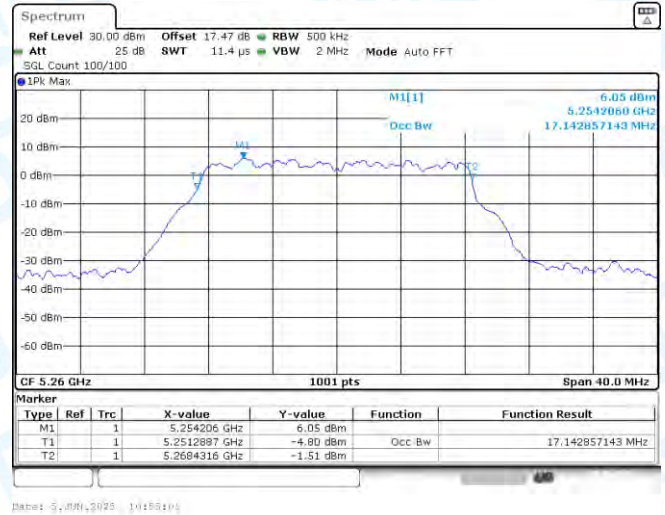
11A-Ant1-5180



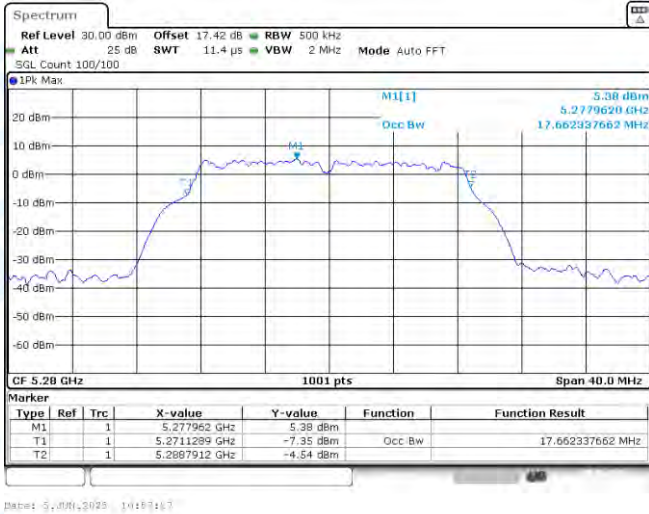
11A-Ant1-5200



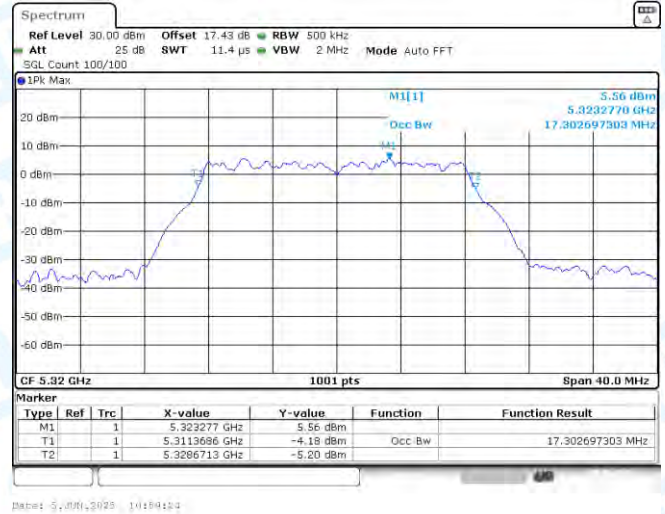
11A-Ant1-5240



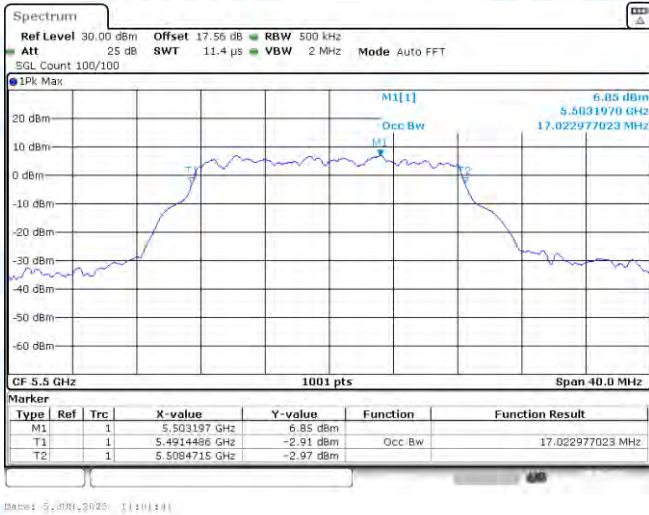
11A-Ant1-5260



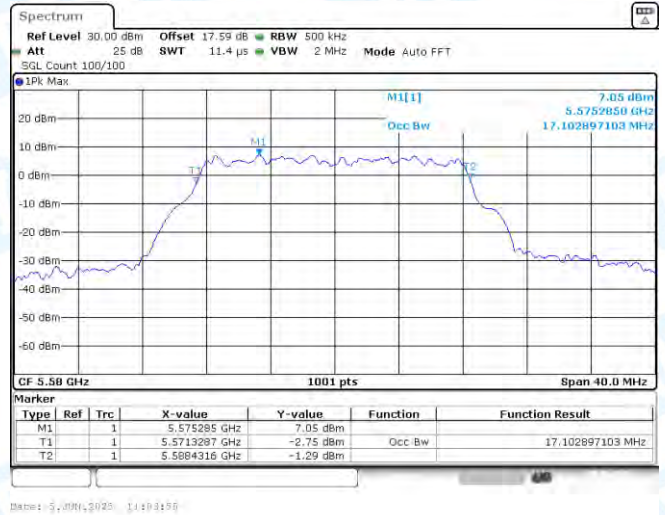
11A-Ant1-5280



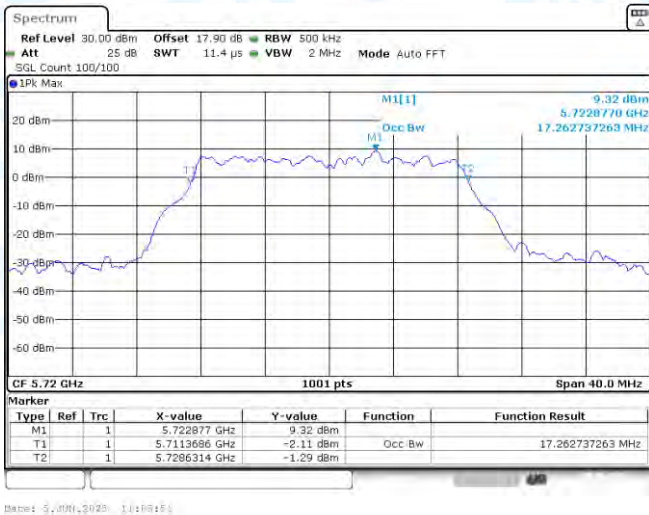
11A-Ant1-5320



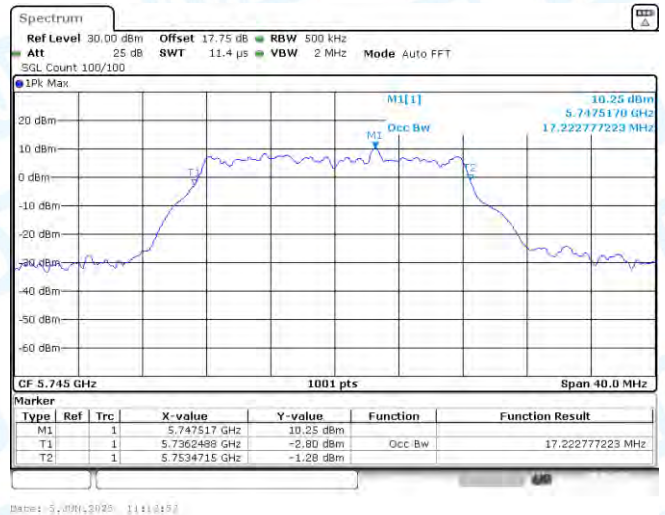
11A-Ant1-5500



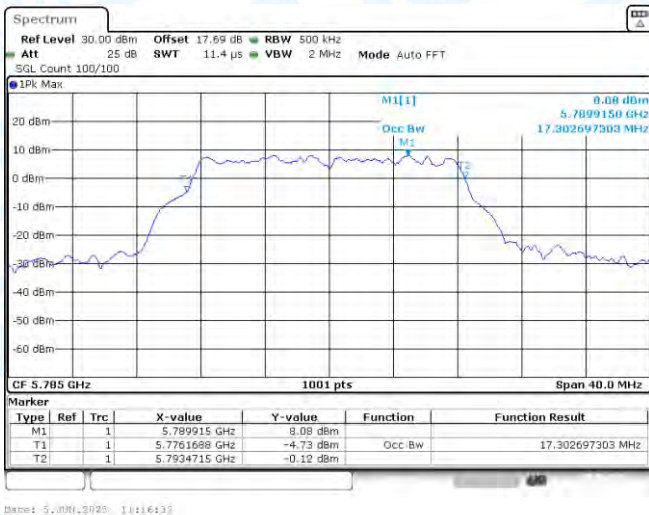
11A-Ant1-5580



11A-Ant1-5720



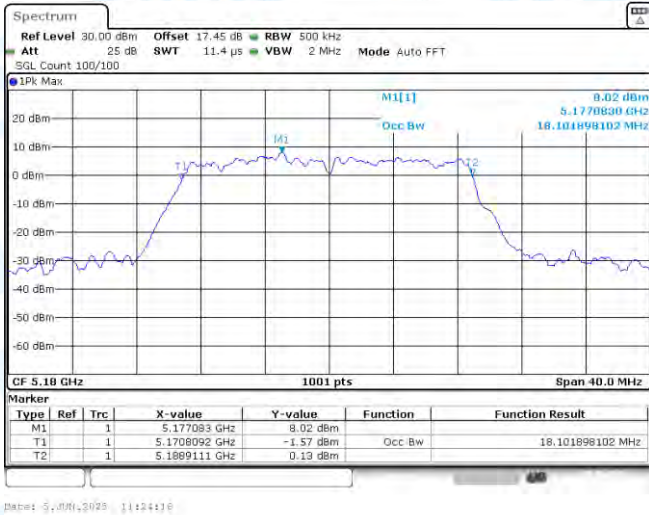
11A-Ant1-5745



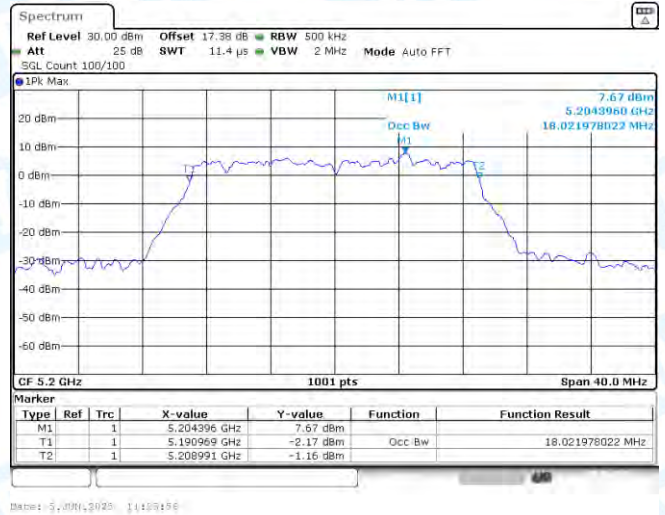
11A-Ant1-5785



11A-Ant1-5825



11N20SISO-Ant1-5180



11N20SISO-Ant1-5200



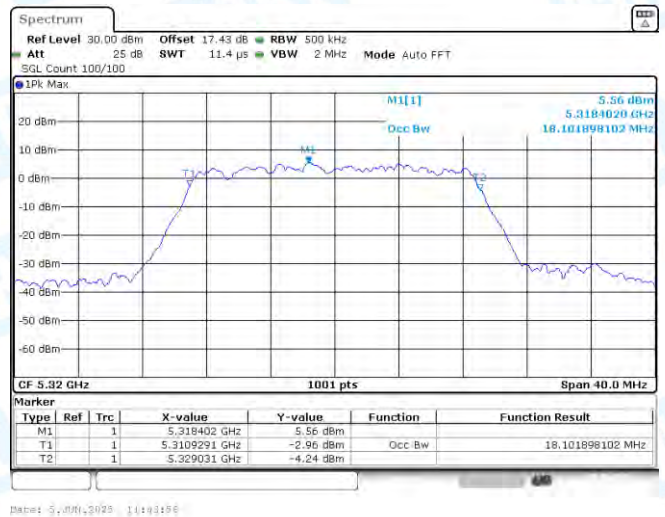
11N20SISO-Ant1-5240



11N20SISO-Ant1-5260



11N20SISO-Ant1-5280



11N20SISO-Ant1-5320