

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

General Description of EUT	
Product Name:	Smart POS Payment Terminal
Test Model:	CM30
Sample ID:	202311-0170-7-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 24V
Test Engineer:	Yan zhen ming
Note: For a more detailed features description, please refer to the report TBR-C-202311-0170-83 The report only show the worst case data.	

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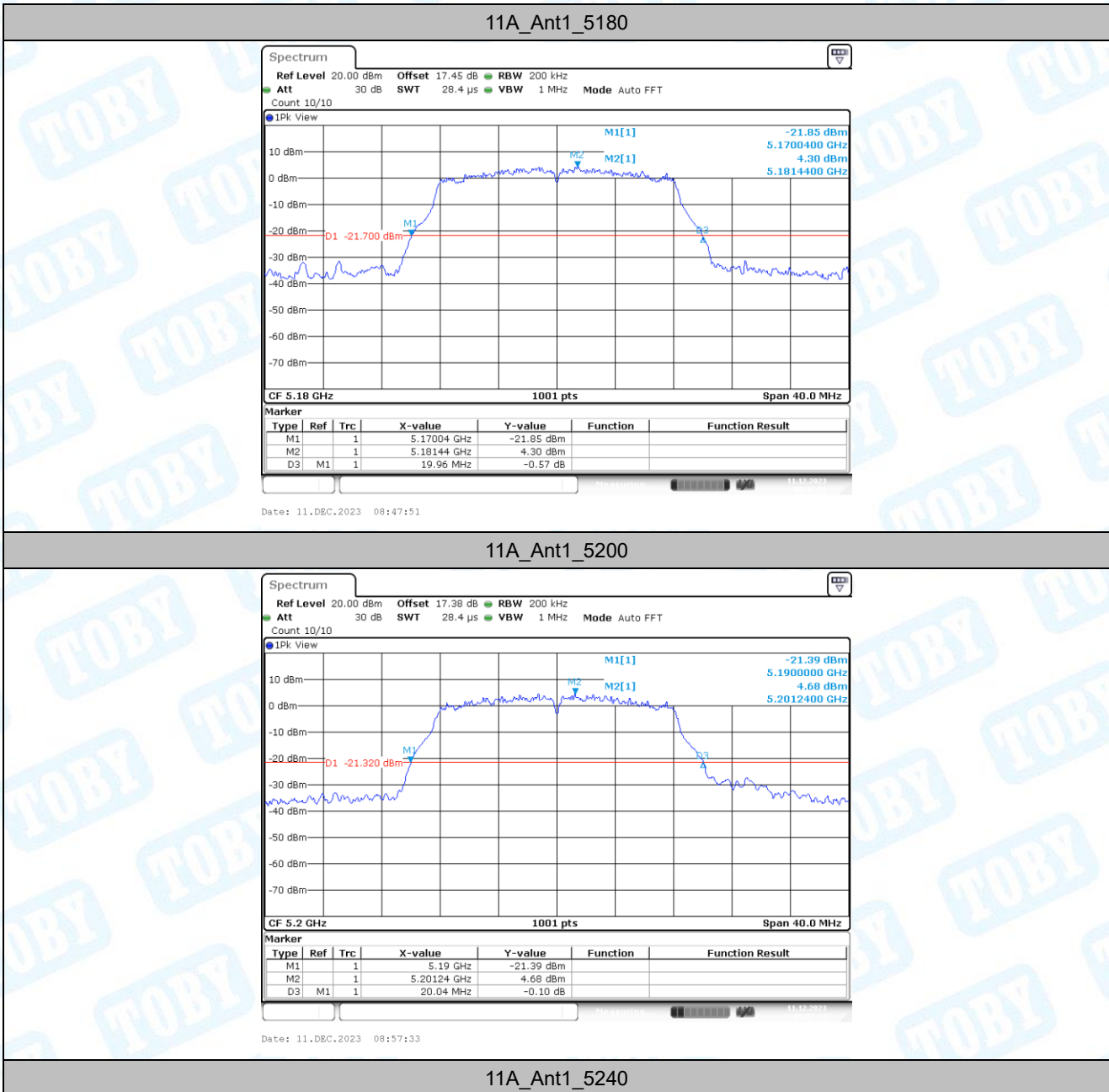
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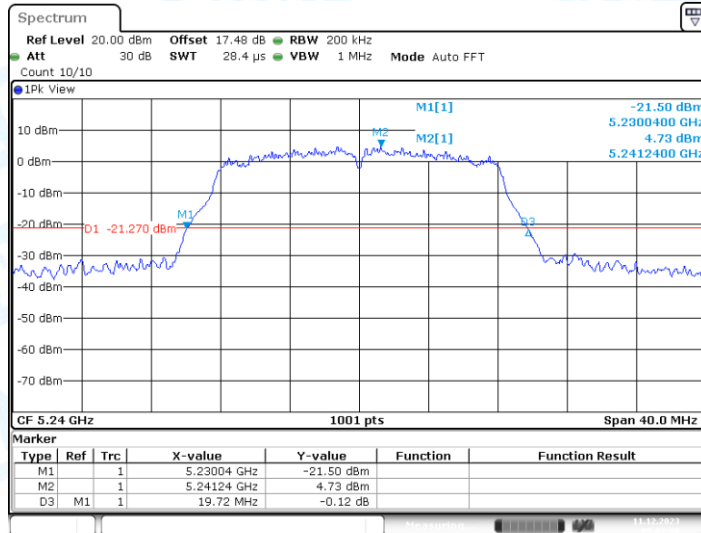
1. Emission Bandwidth

1.1. Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.96	5170.04	5190.00	---	---
		5200	20.04	5190.00	5210.04	---	---
		5240	19.72	5230.04	5249.76	---	---
		5745	24.92	5732.08	5757.00	---	---
		5785	19.88	5775.00	5794.88	---	---
		5825	24.80	5812.76	5837.56	---	---
11N20SISO	Ant1	5180	20.28	5169.76	5190.04	---	---
		5200	20.08	5190.00	5210.08	---	---
		5240	20.12	5229.84	5249.96	---	---
		5745	25.48	5733.32	5758.80	---	---
		5785	23.32	5773.28	5796.60	---	---
		5825	23.08	5814.48	5837.56	---	---
11N40SISO	Ant1	5190	40.88	5169.44	5210.32	---	---
		5230	41.04	5209.60	5250.64	---	---
		5755	41.12	5734.04	5775.16	---	---
		5795	40.96	5774.36	5815.32	---	---
11AC20SISO	Ant1	5180	20.24	5169.84	5190.08	---	---
		5200	20.48	5189.80	5210.28	---	---
		5240	20.28	5229.76	5250.04	---	---
		5745	23.24	5734.28	5757.52	---	---
		5785	26.68	5771.76	5798.44	---	---
		5825	20.44	5814.72	5835.16	---	---
11AC40SISO	Ant1	5190	40.40	5169.84	5210.24	---	---
		5230	40.96	5209.68	5250.64	---	---
		5755	42.96	5732.84	5775.80	---	---
		5795	48.08	5774.44	5822.52	---	---

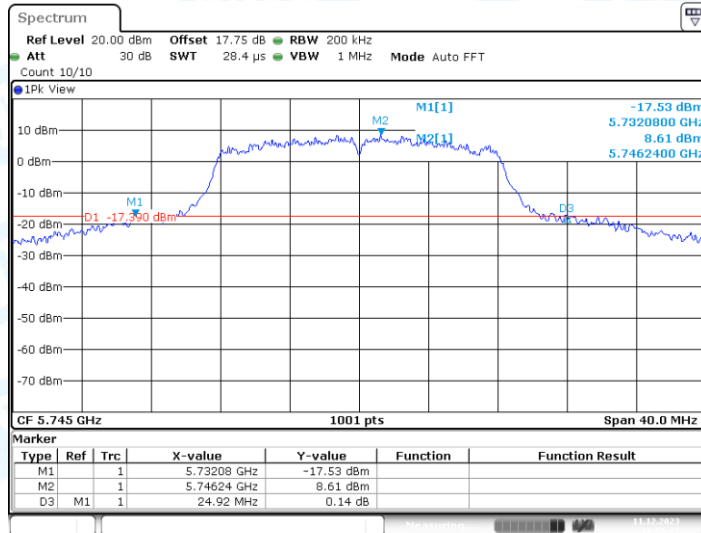
2.1. Test Graphs





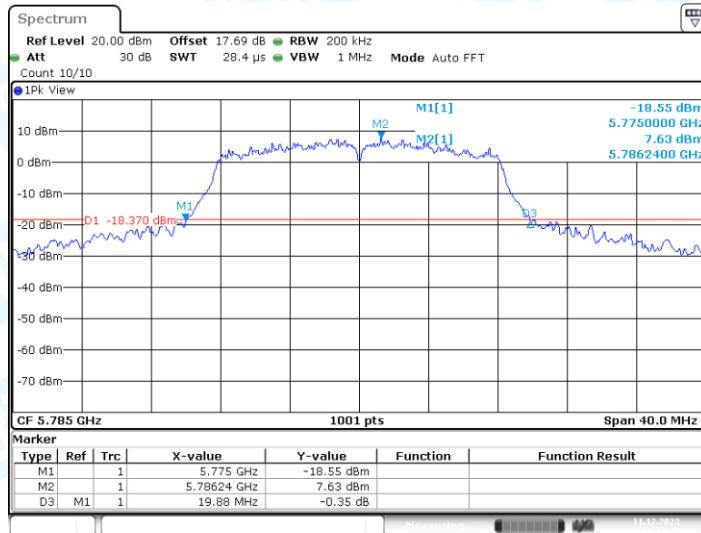
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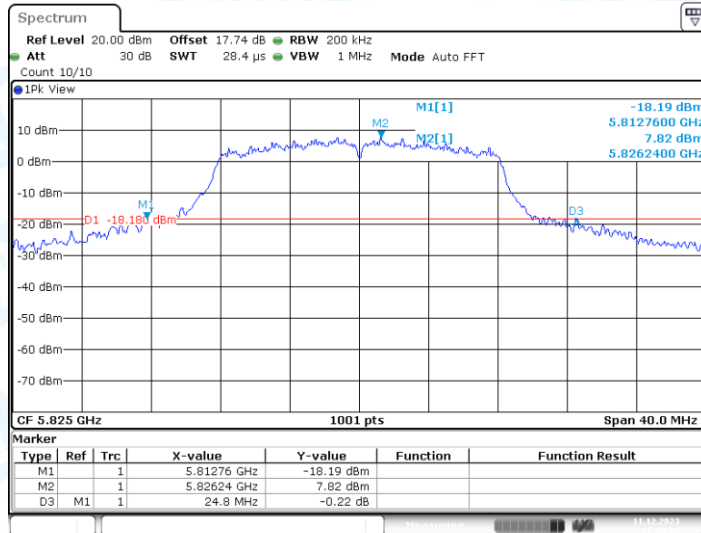
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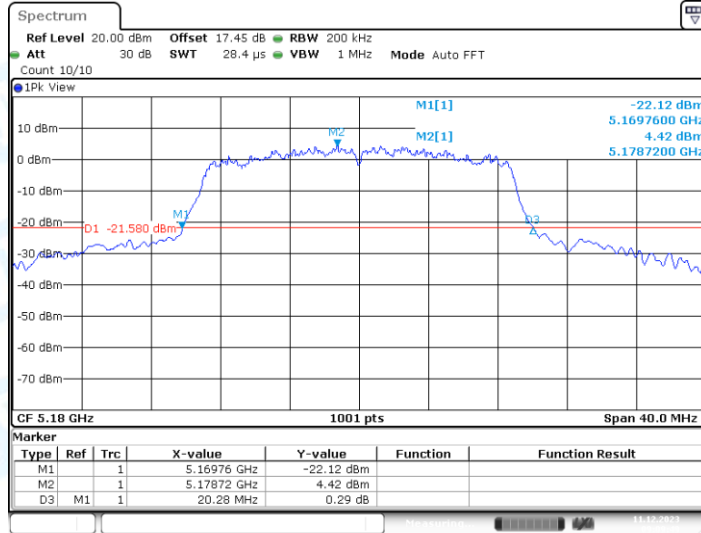
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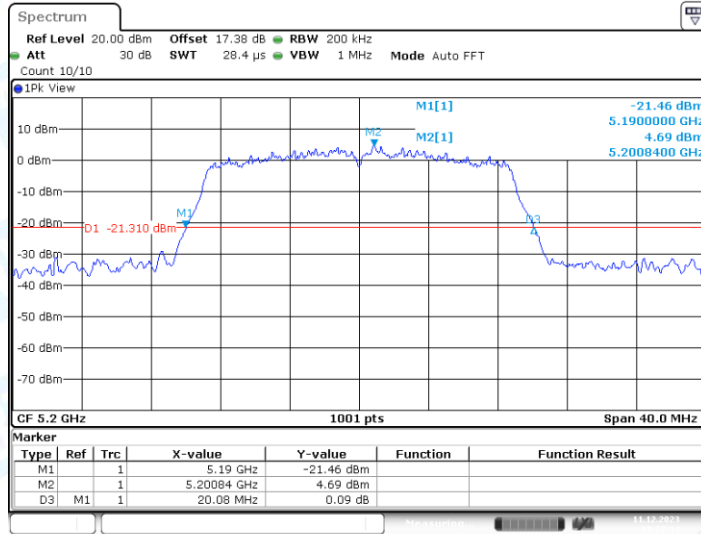
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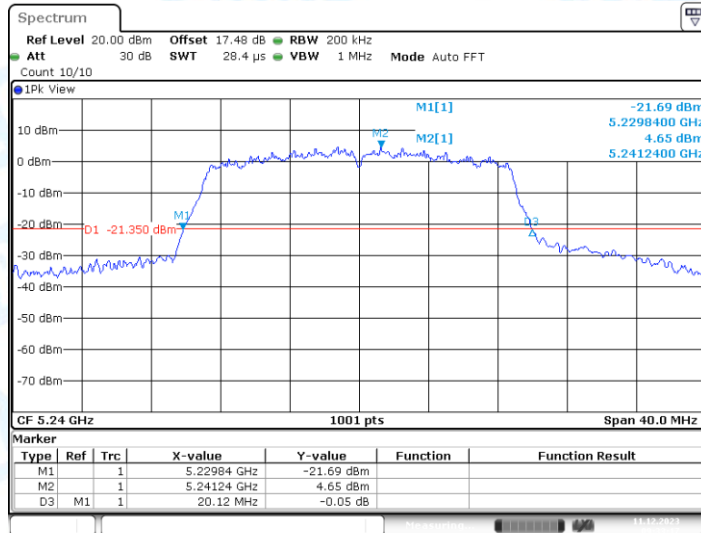
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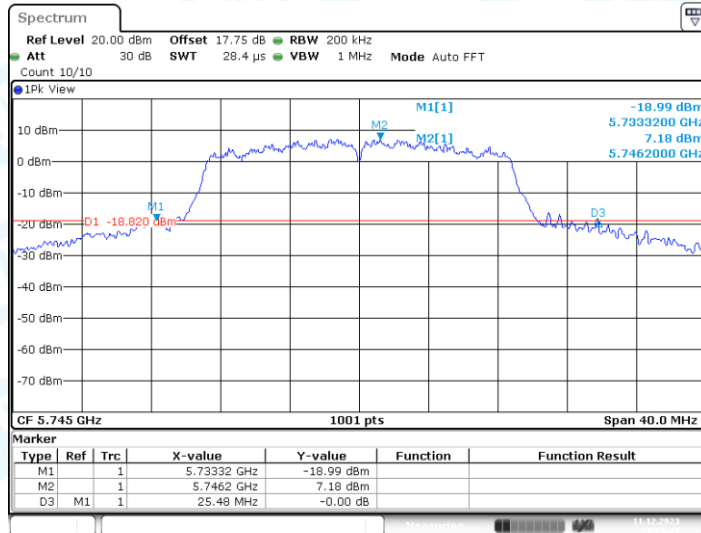
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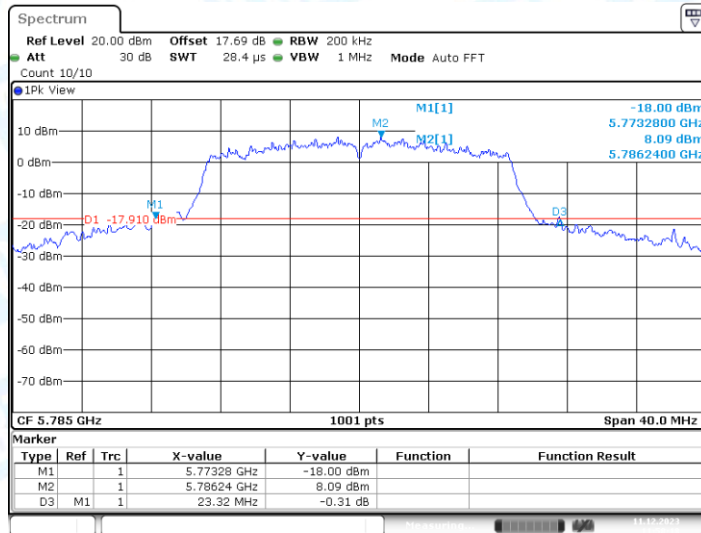
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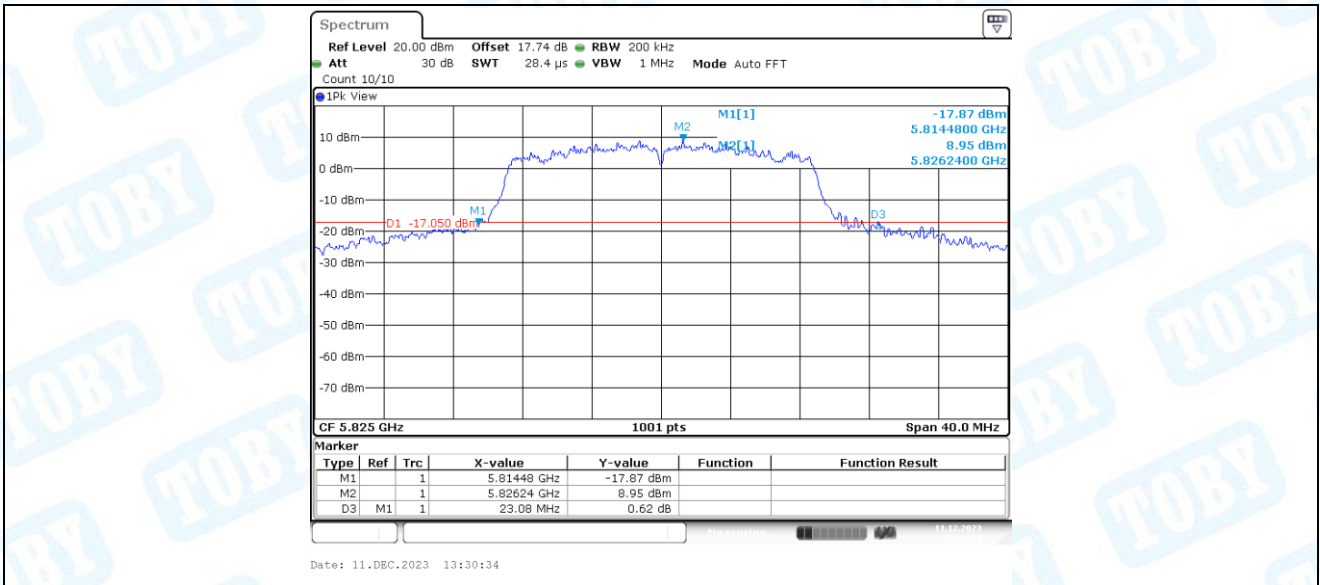
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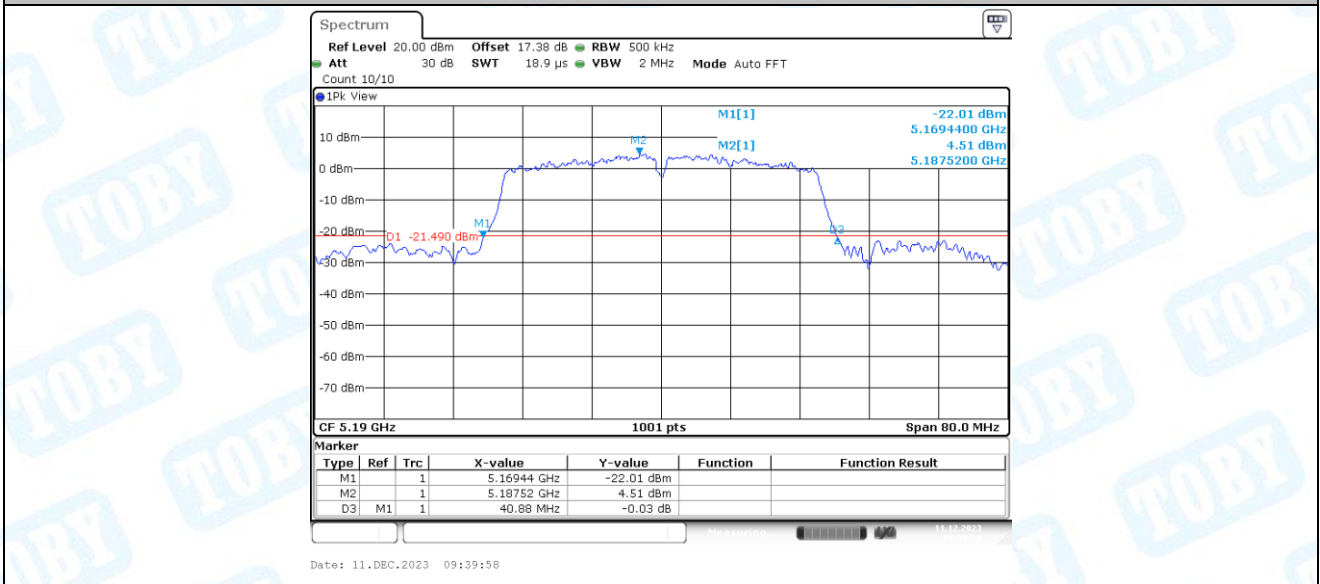


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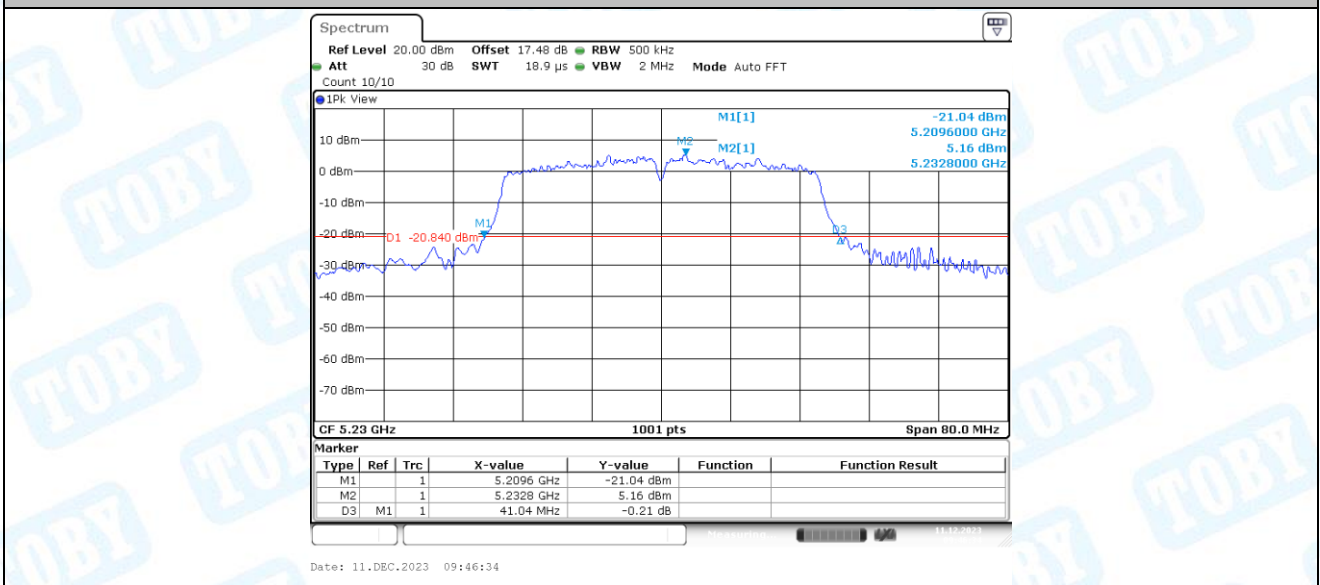
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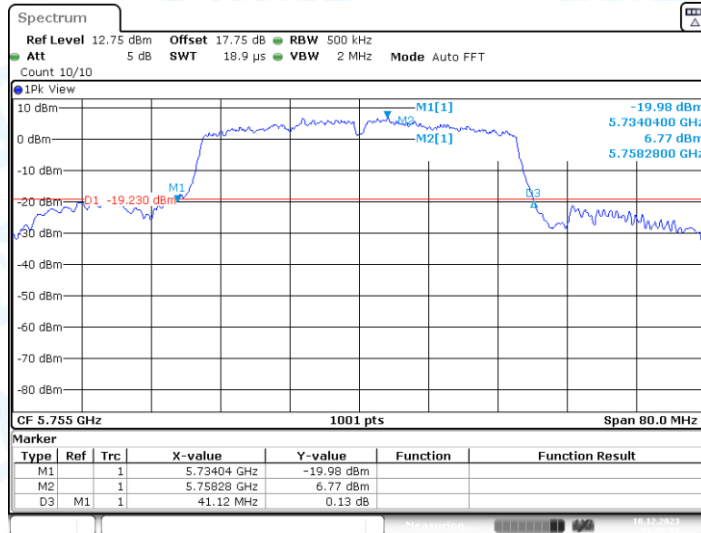
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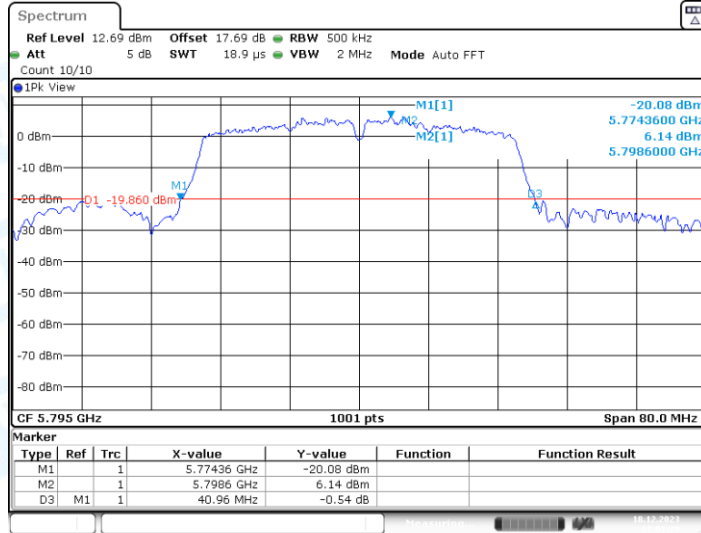


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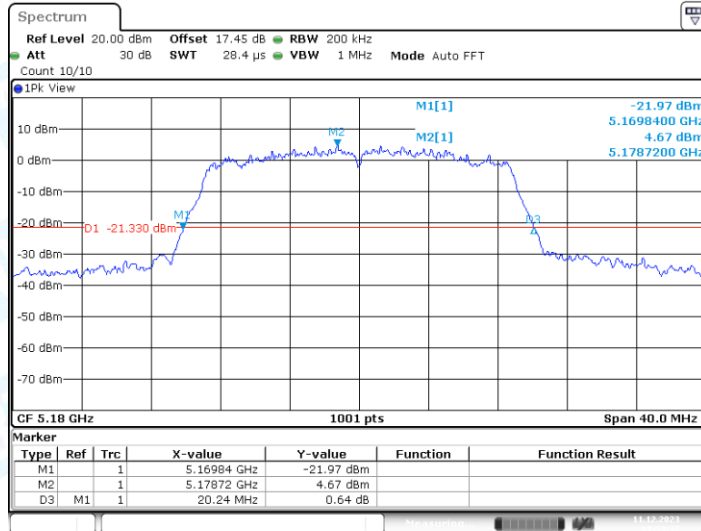
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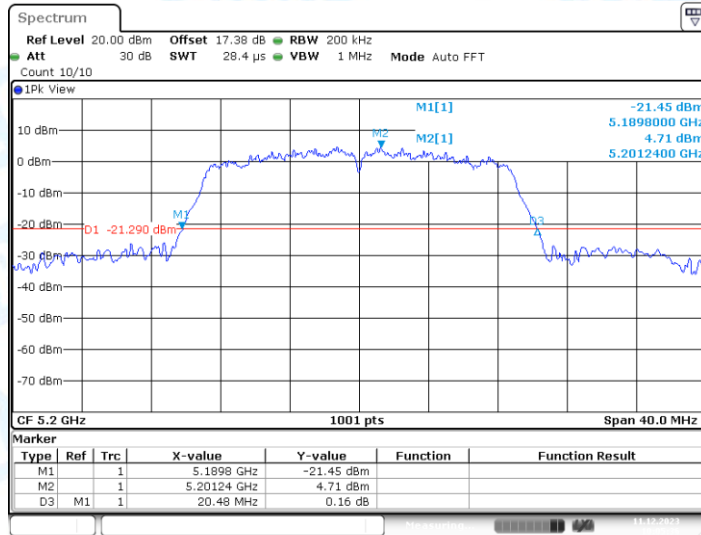
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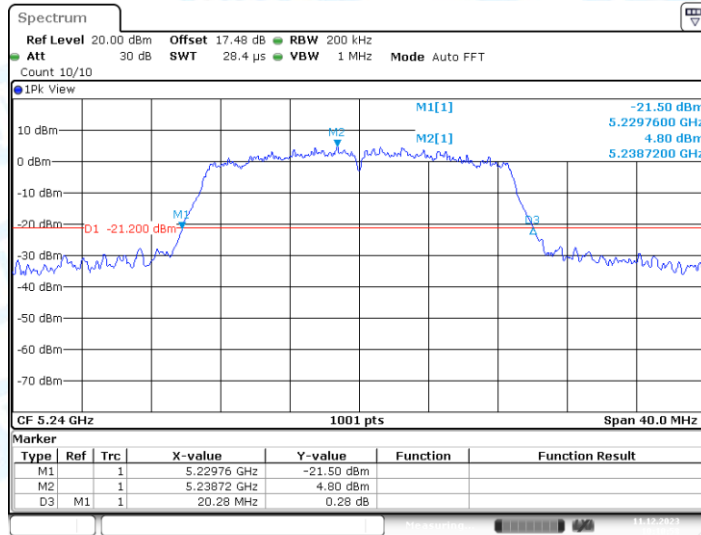
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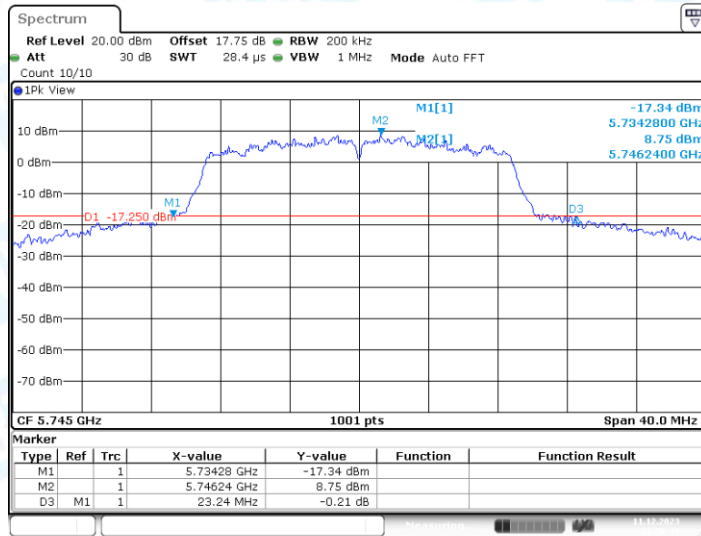
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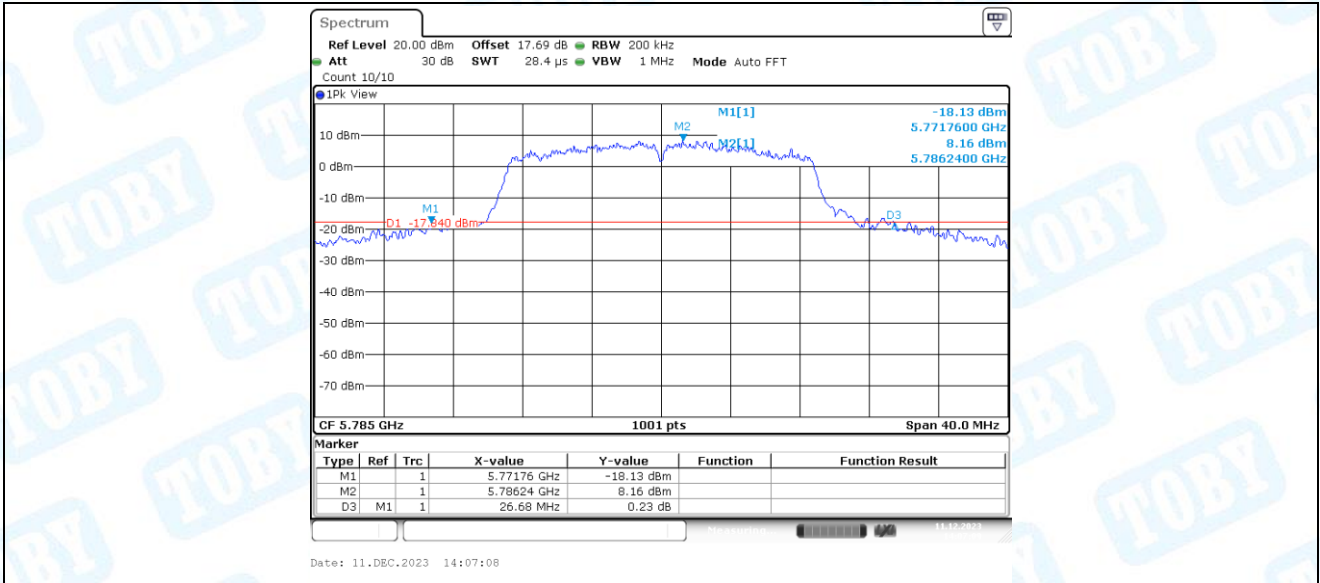
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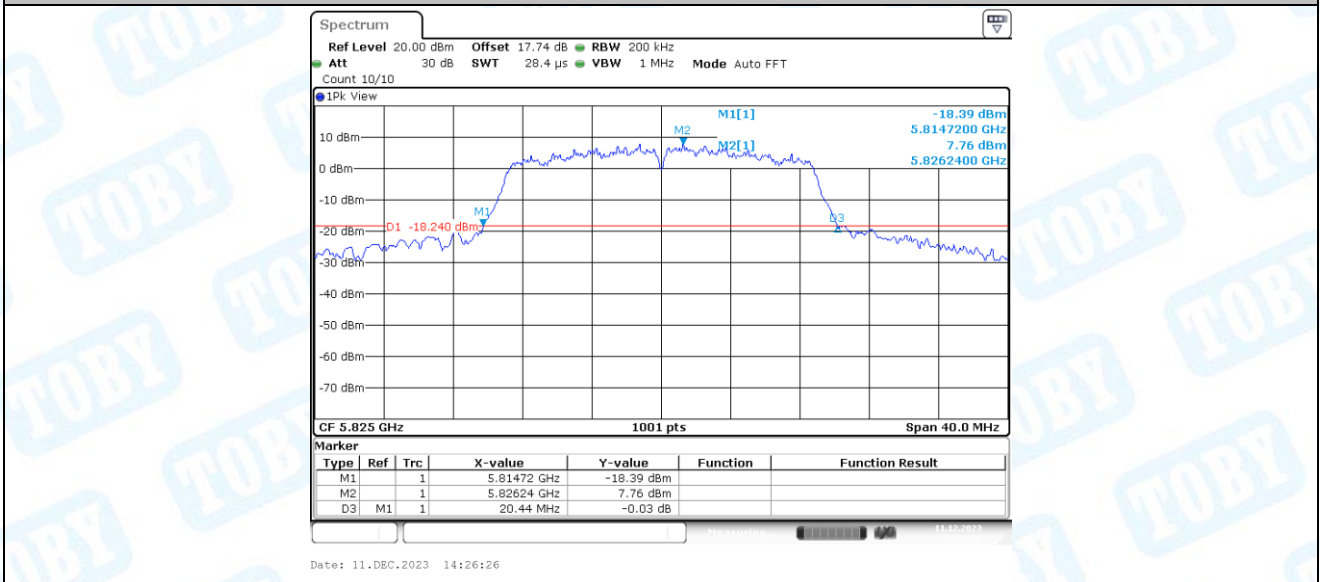


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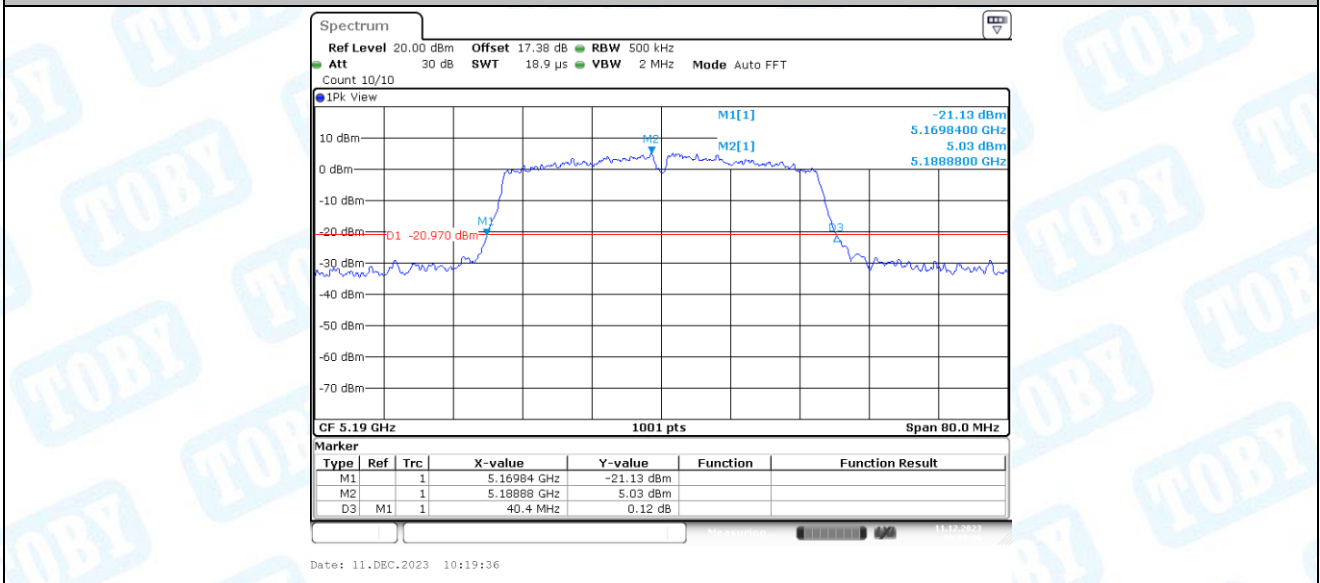
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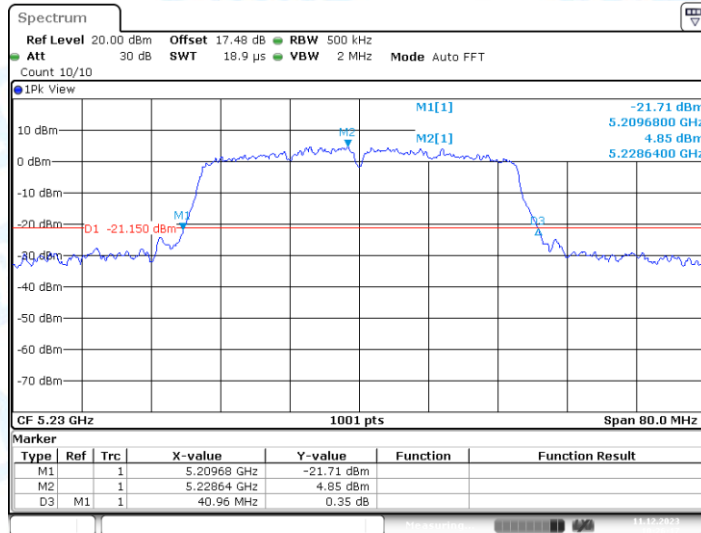
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11AC40SISO_Ant1_5190

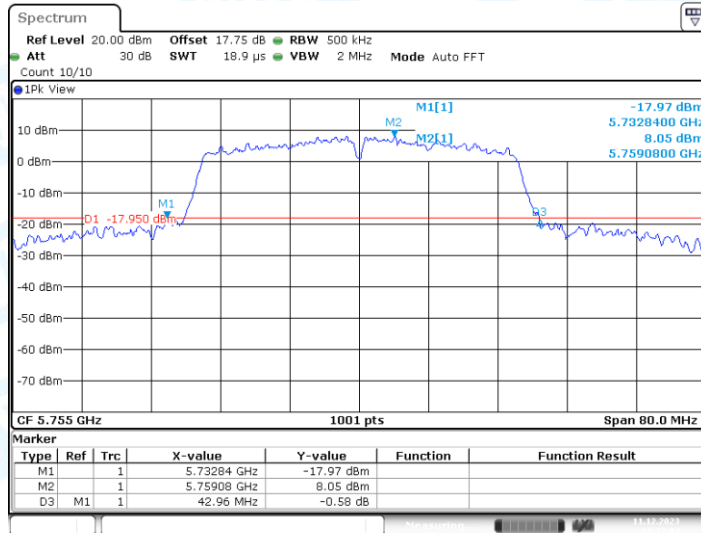


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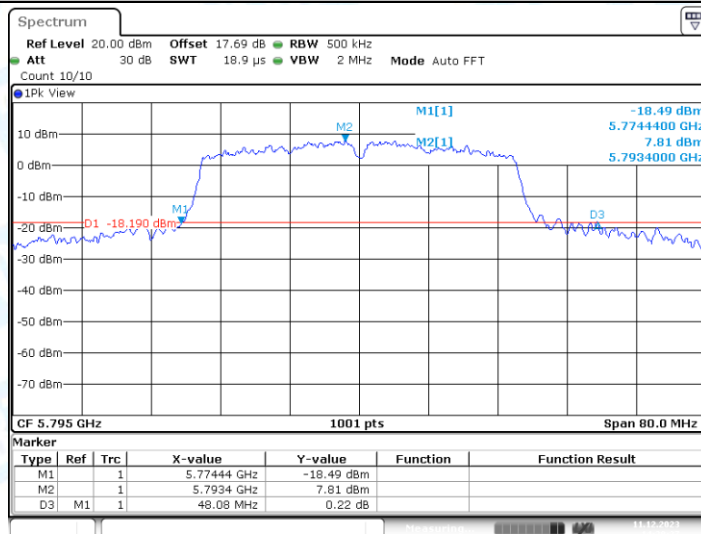
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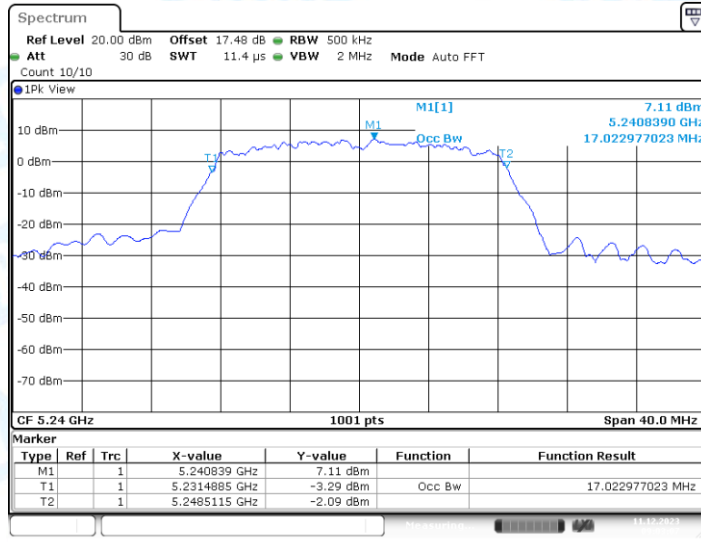
2. Occupied channel bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.623	5171.7283	5188.3516	---	---
		5200	16.823	5191.4486	5208.2717	---	---
		5240	17.023	5231.4885	5248.5115	---	---
		5745	17.143	5736.3287	5753.4715	---	---
		5785	17.023	5776.6484	5793.6713	---	---
		5825	16.983	5816.5684	5833.5514	---	---
11N20SISO	Ant1	5180	17.622	5171.1688	5188.7912	---	---
		5200	17.902	5191.1688	5209.0709	---	---
		5240	17.702	5231.1289	5248.8312	---	---
		5745	17.982	5736.0090	5753.9910	---	---
		5785	17.782	5776.0889	5793.8711	---	---
		5825	18.661	5815.4496	5834.1109	---	---
11N40SISO	Ant1	5190	36.044	5171.9381	5207.9820	---	---
		5230	36.044	5212.0180	5248.0619	---	---
		5755	36.284	5736.8581	5773.1419	---	---
		5795	36.284	5776.7782	5813.0619	---	---
11AC20SISO	Ant1	5180	17.902	5171.0090	5188.9111	---	---
		5200	17.742	5191.1688	5208.9111	---	---
		5240	18.022	5230.9291	5248.9510	---	---
		5745	17.782	5736.1289	5753.9111	---	---
		5785	18.142	5775.7293	5793.8711	---	---
		5825	17.822	5816.0889	5833.9111	---	---
11AC40SISO	Ant1	5190	35.884	5172.0180	5207.9021	---	---
		5230	36.204	5211.8581	5248.0619	---	---
		5755	36.284	5736.8581	5773.1419	---	---
		5795	36.044	5776.9381	5812.9820	---	---

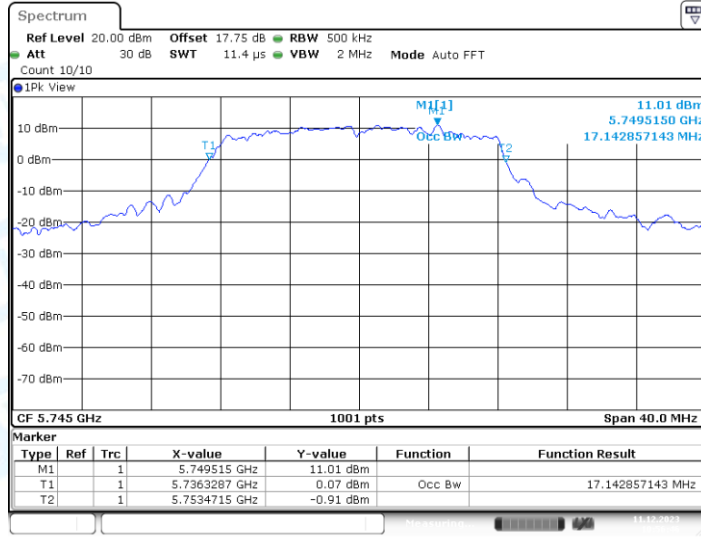
2.2. Test Graphs





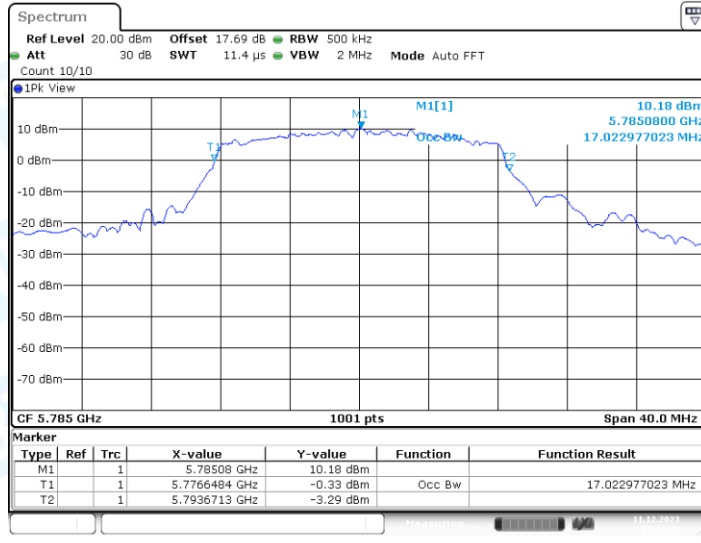
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11A_Ant1_5745



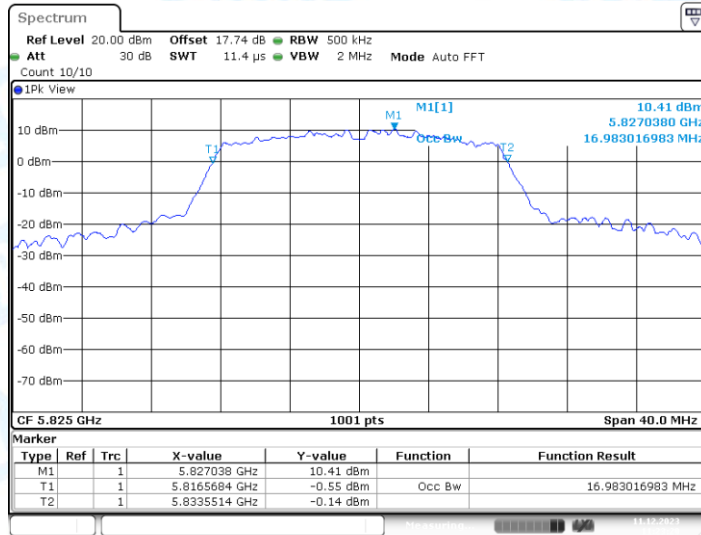
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11A_Ant1_5785



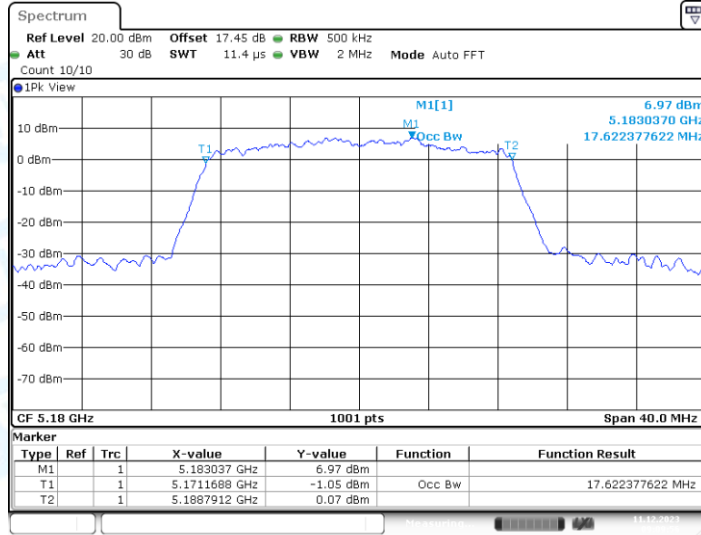
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11A_Ant1_5825



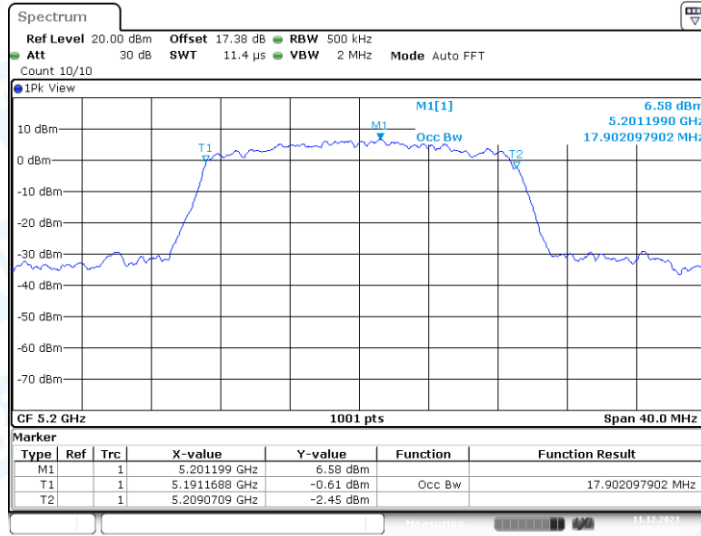
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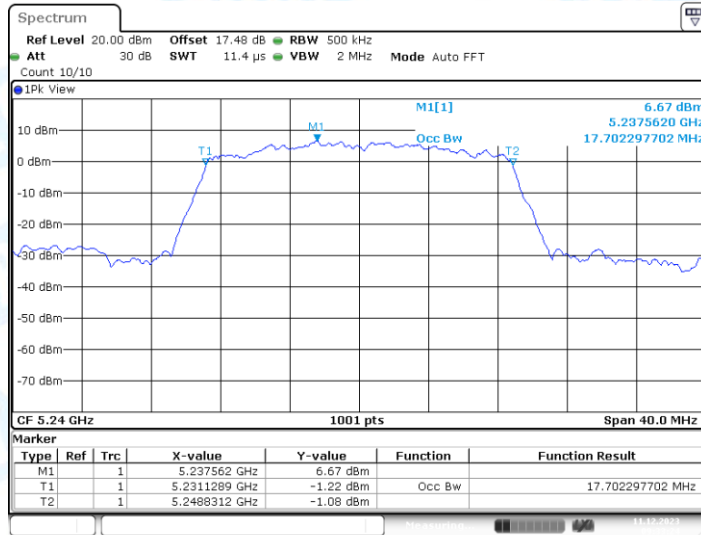
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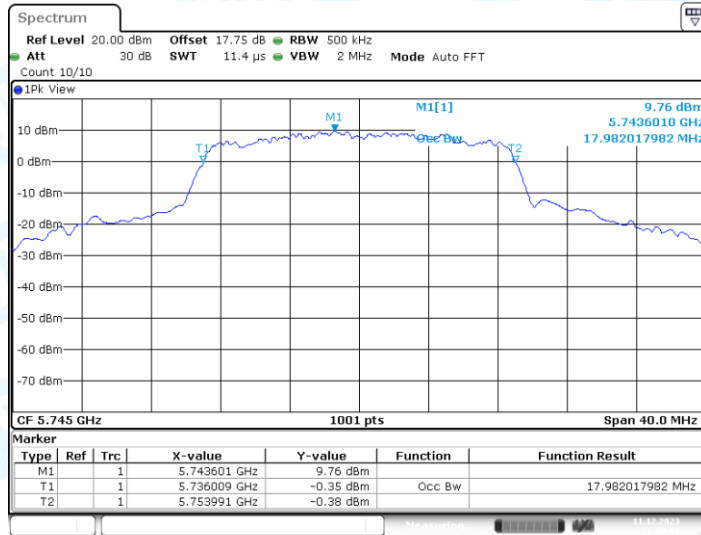
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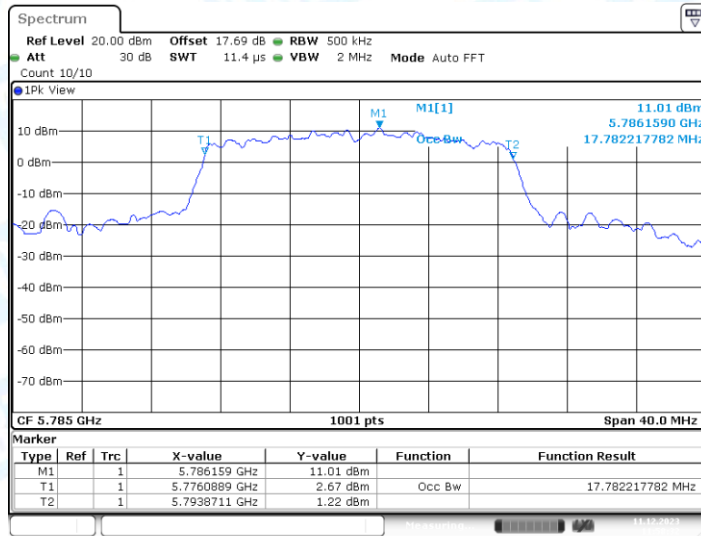
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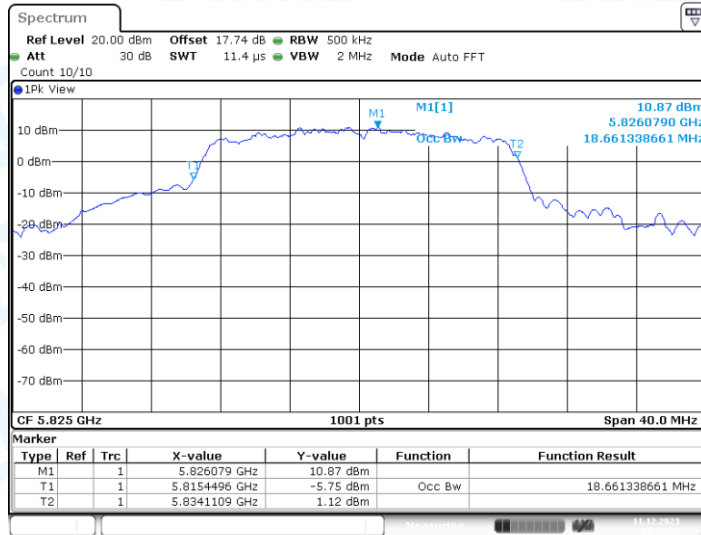
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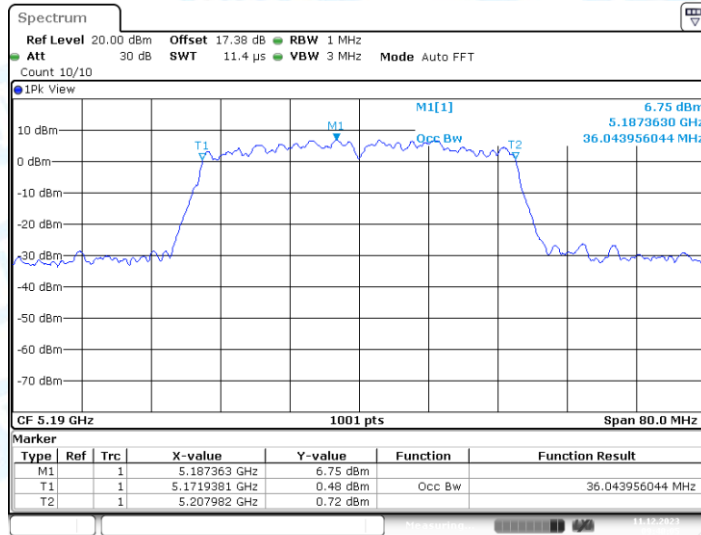
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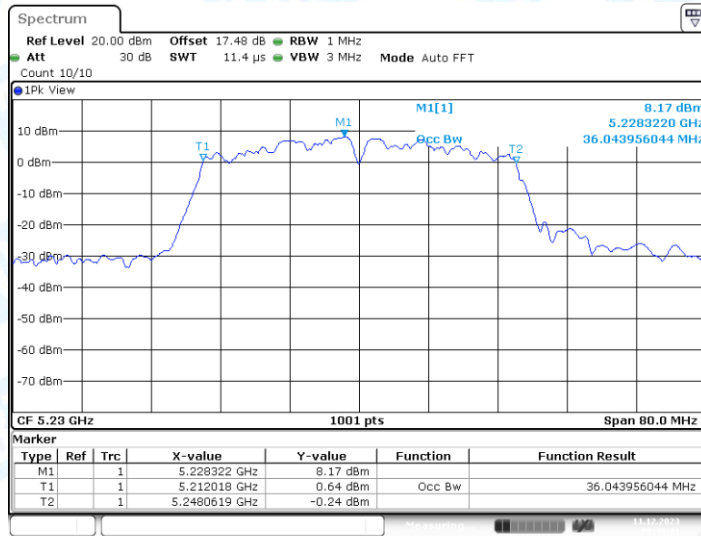
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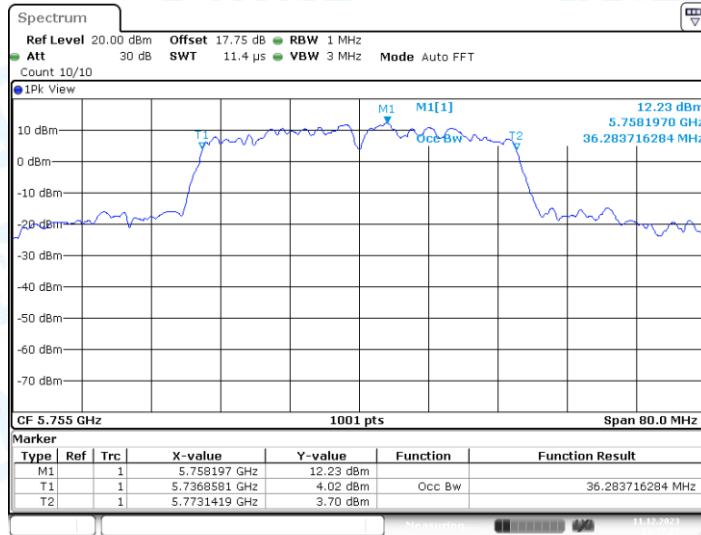
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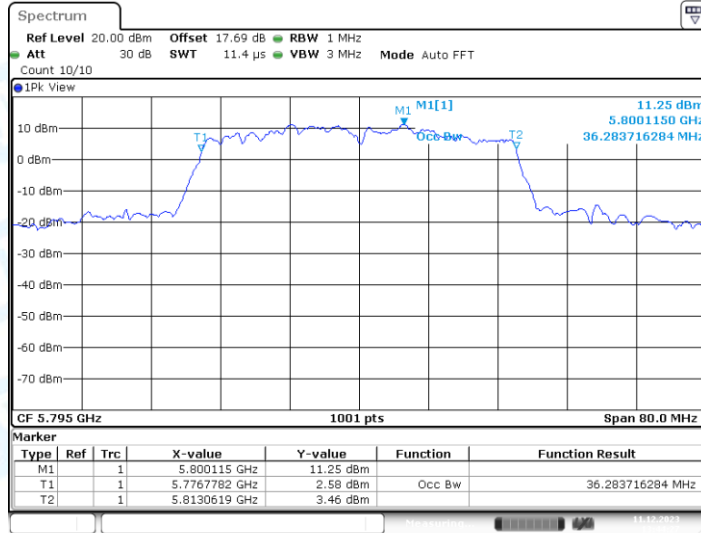
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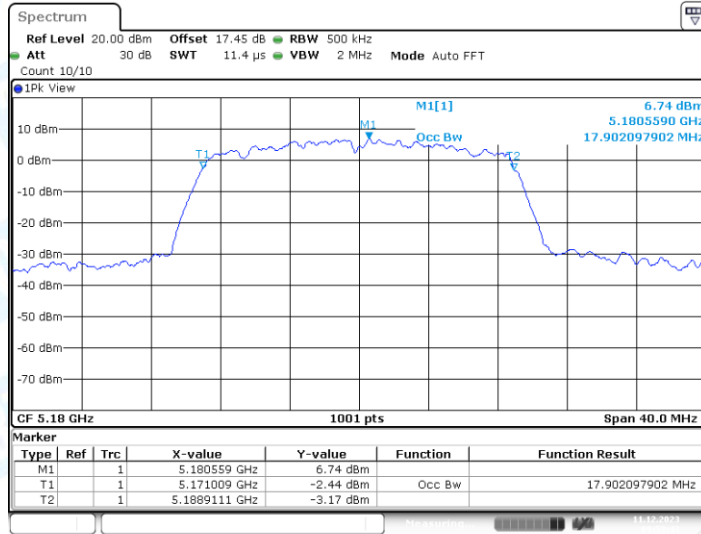
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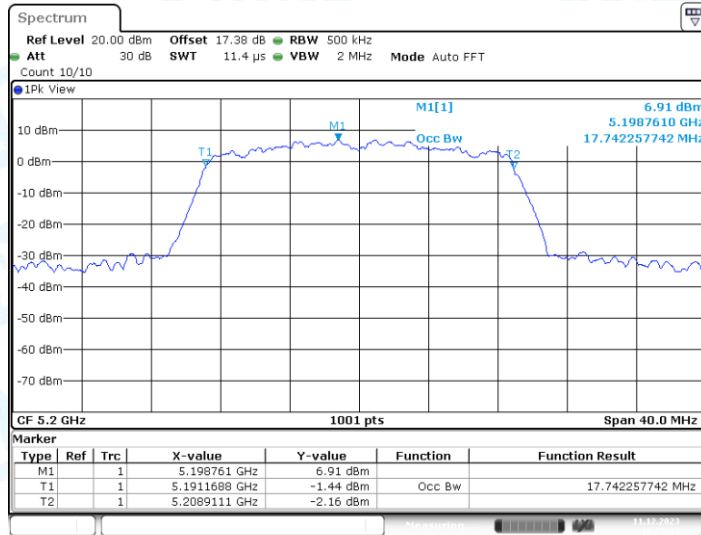
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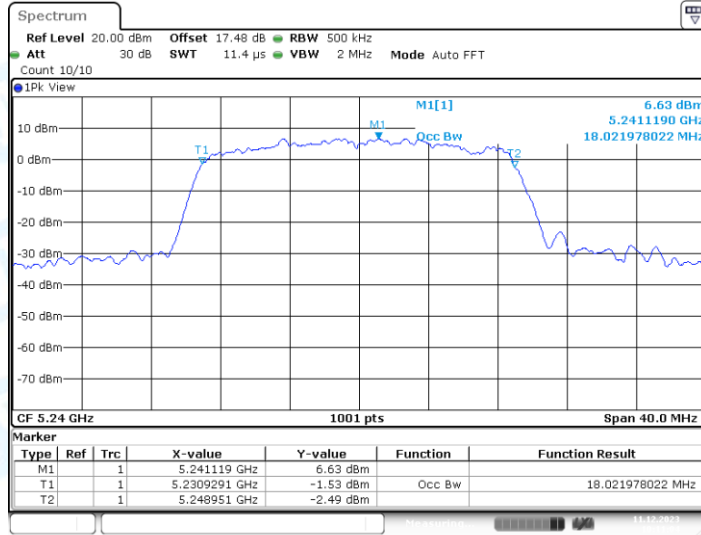
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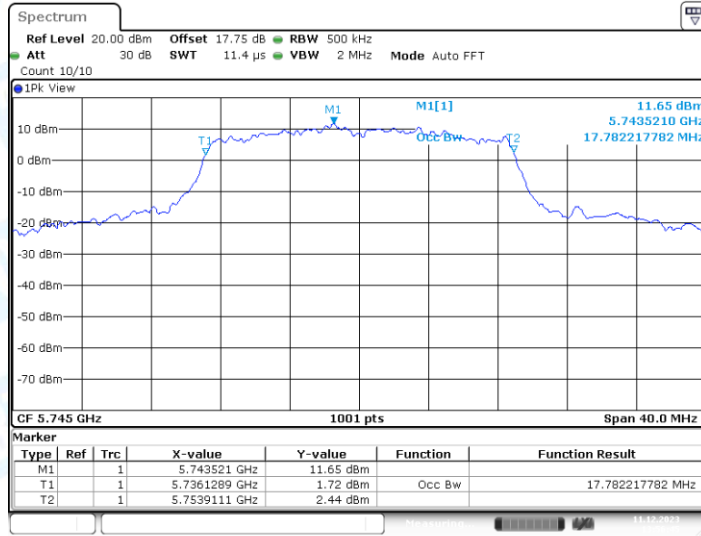
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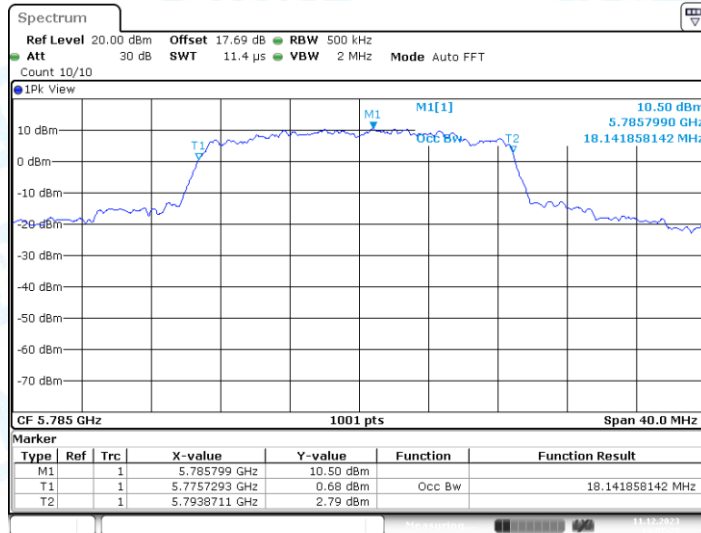
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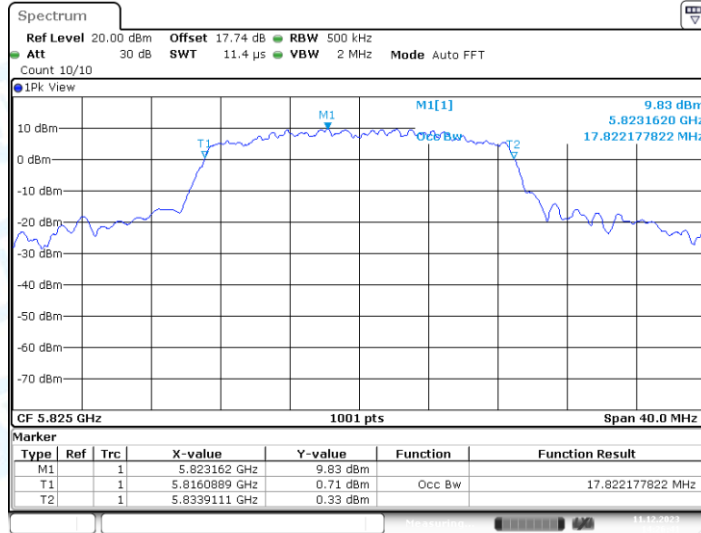
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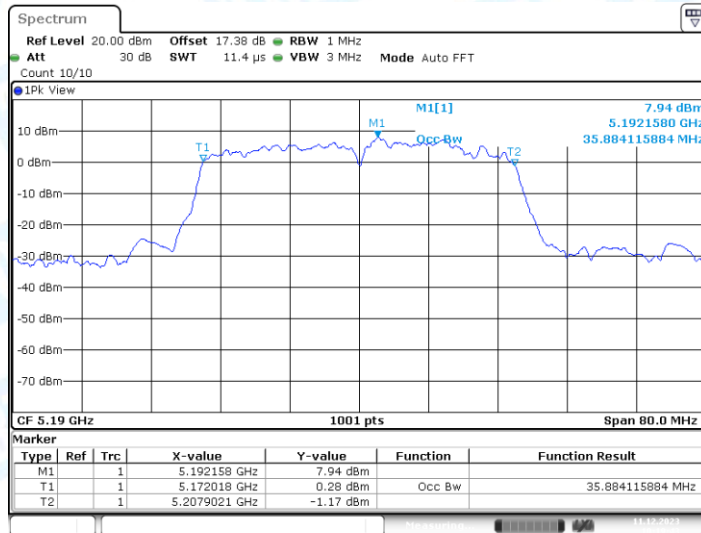
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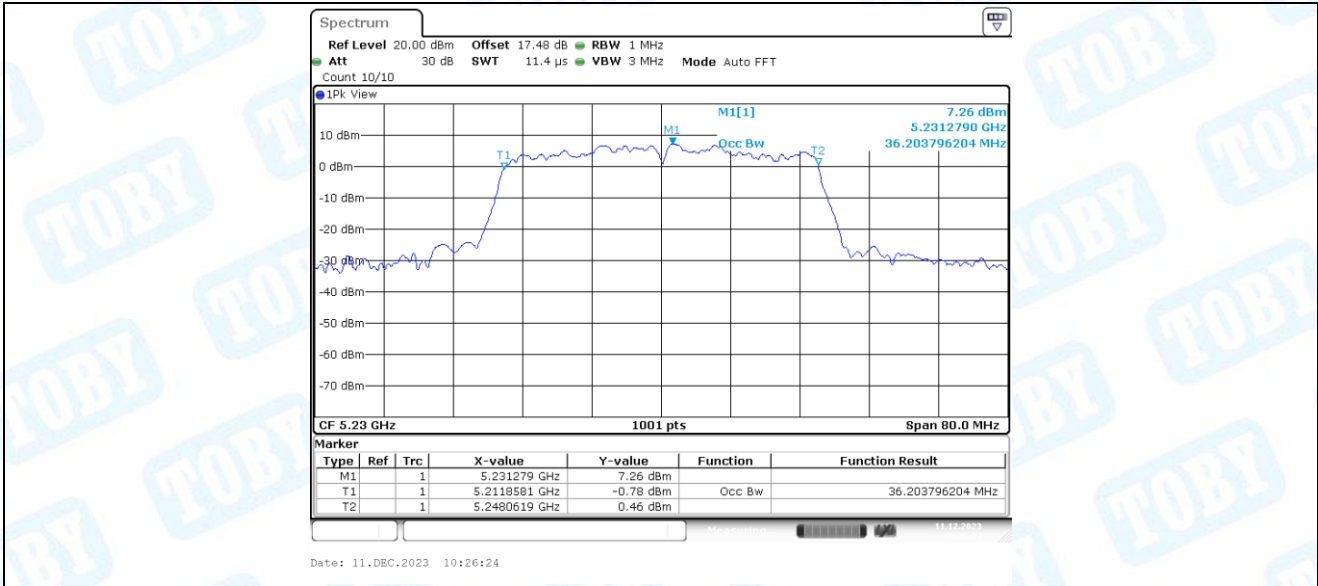
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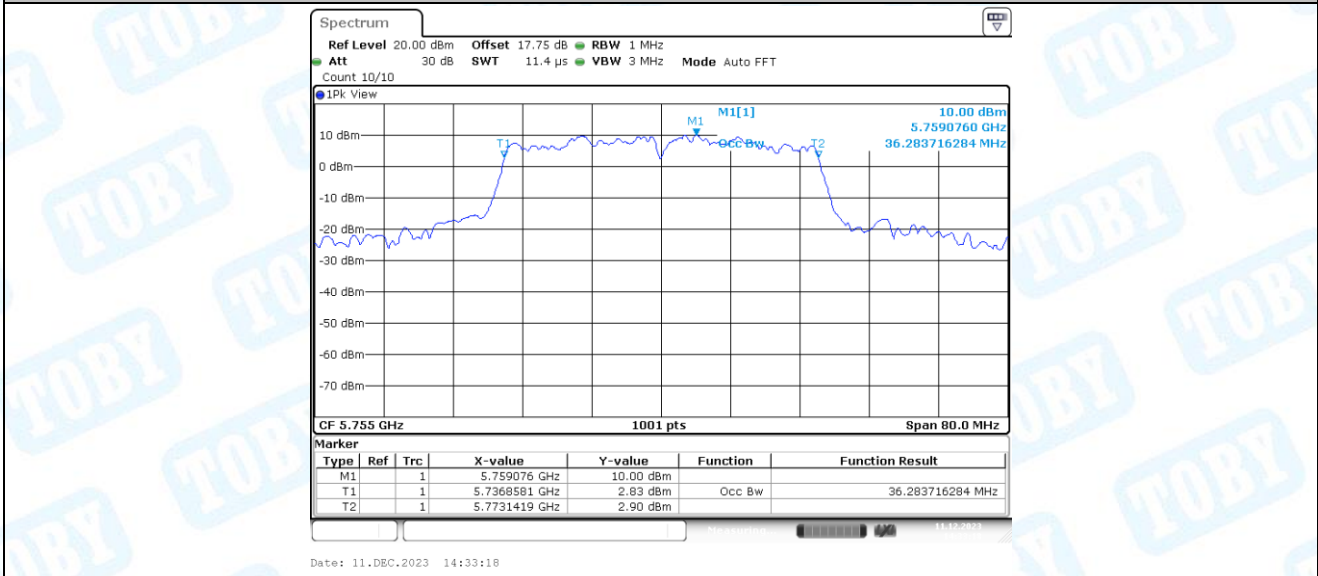


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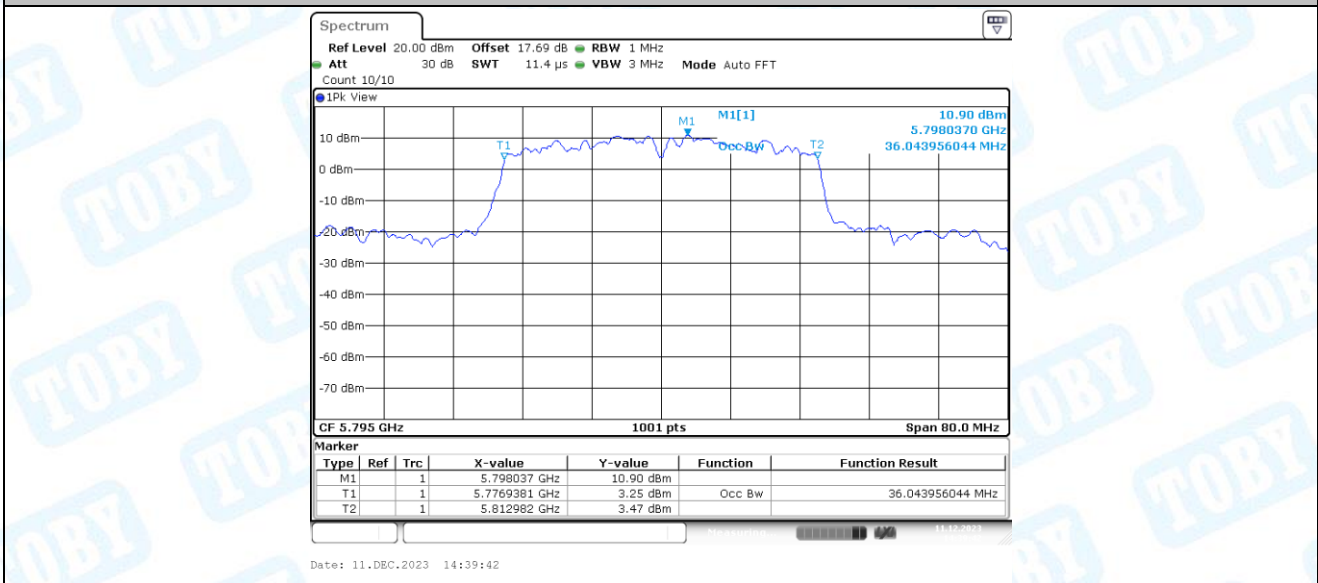
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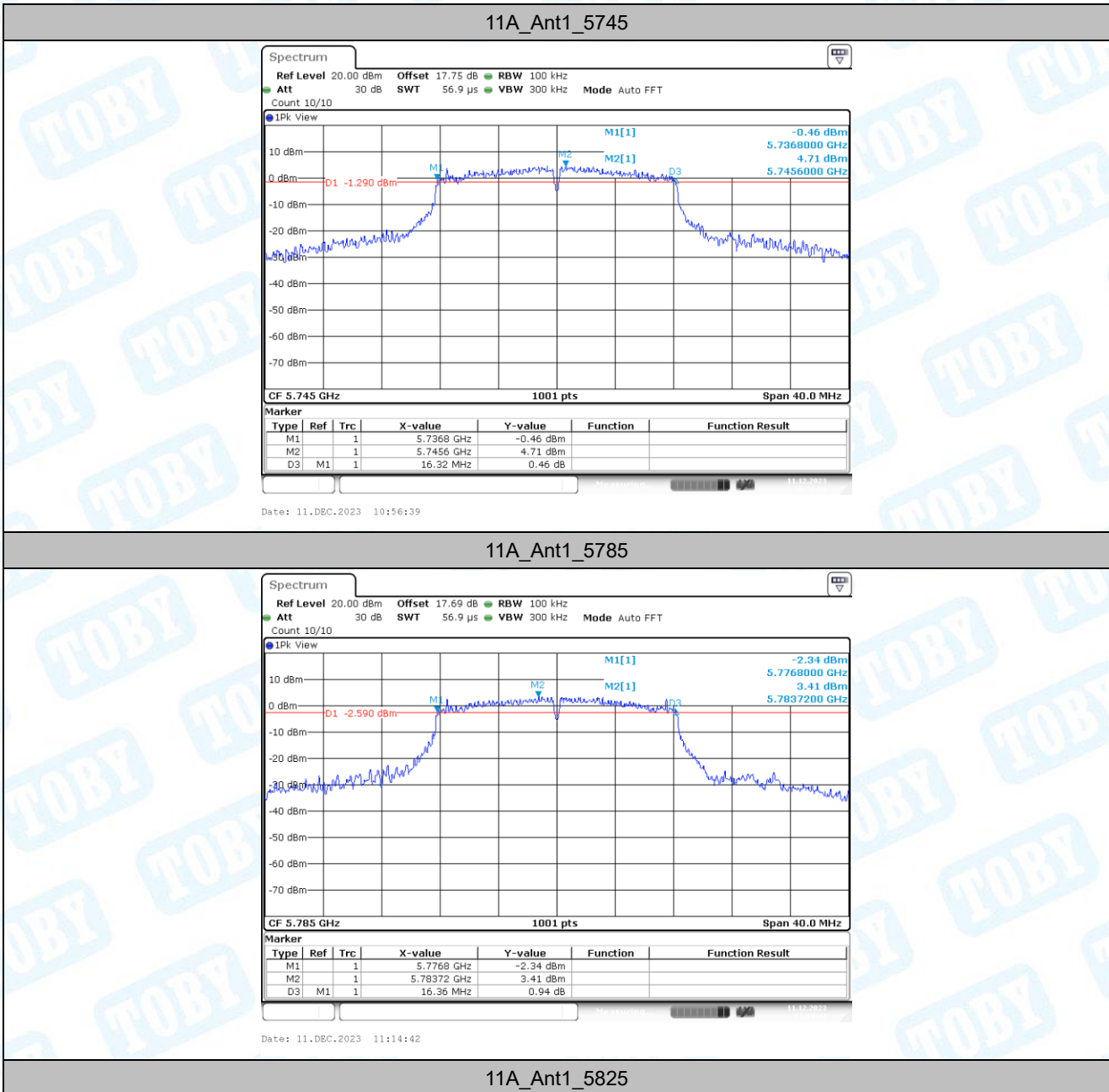


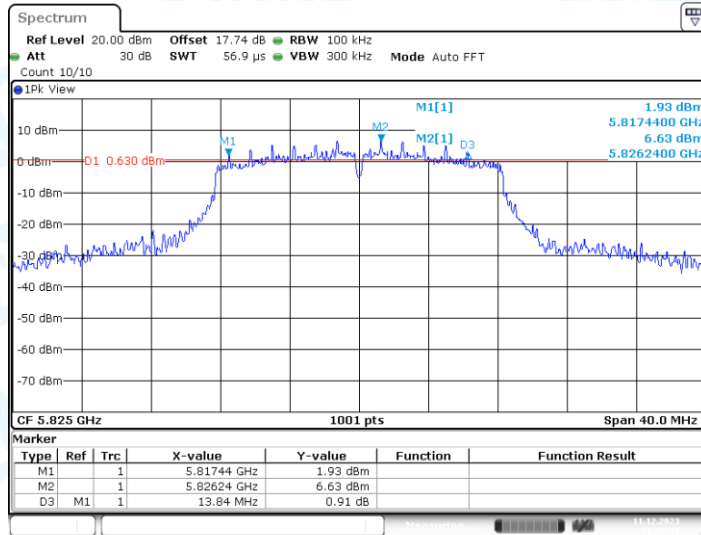
3. Min emission bandwidth

3.1. Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.32	5736.80	5753.12	0.5	PASS
		5785	16.36	5776.80	5793.16	0.5	PASS
		5825	13.84	5817.44	5831.28	0.5	PASS
11N20SISO	Ant1	5745	15.08	5737.44	5752.52	0.5	PASS
		5785	16.68	5776.84	5793.52	0.5	PASS
		5825	15.08	5817.44	5832.52	0.5	PASS
11N40SISO	Ant1	5755	33.84	5738.68	5772.52	0.5	PASS
		5795	34.96	5777.80	5812.76	0.5	PASS
11AC20SISO	Ant1	5745	13.88	5738.64	5752.52	0.5	PASS
		5785	15.32	5777.40	5792.72	0.5	PASS
		5825	17.60	5816.20	5833.80	0.5	PASS
11AC40SISO	Ant1	5755	35.20	5737.40	5772.60	0.5	PASS
		5795	33.84	5778.68	5812.52	0.5	PASS

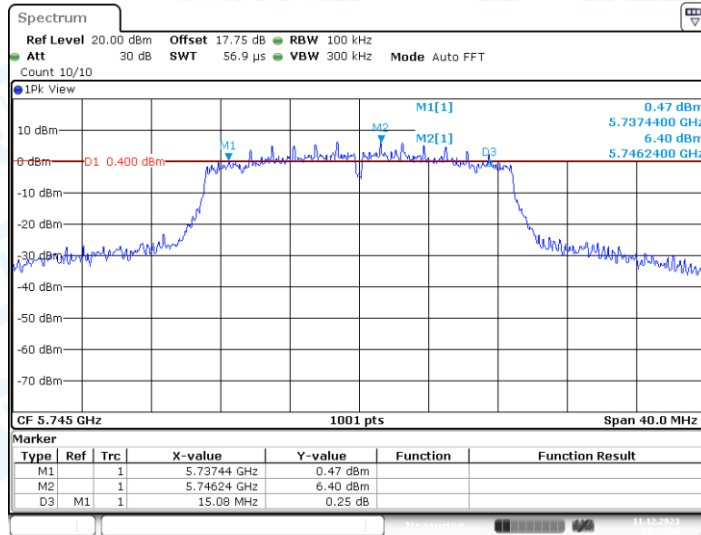
3.2. Test Graphs





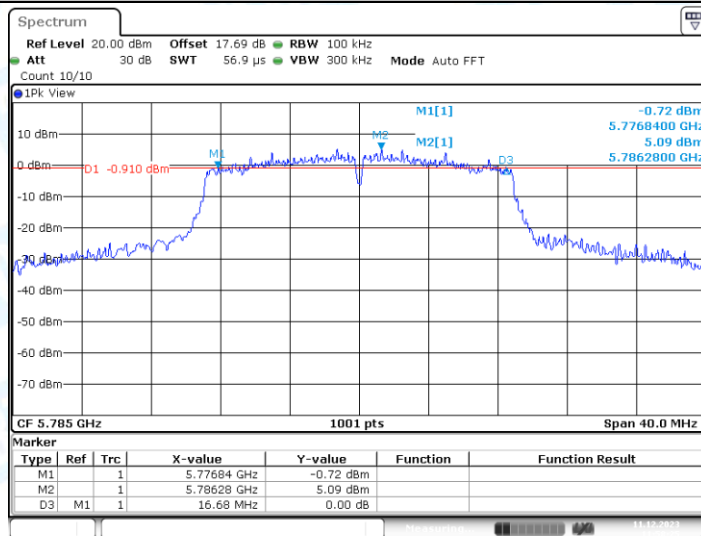
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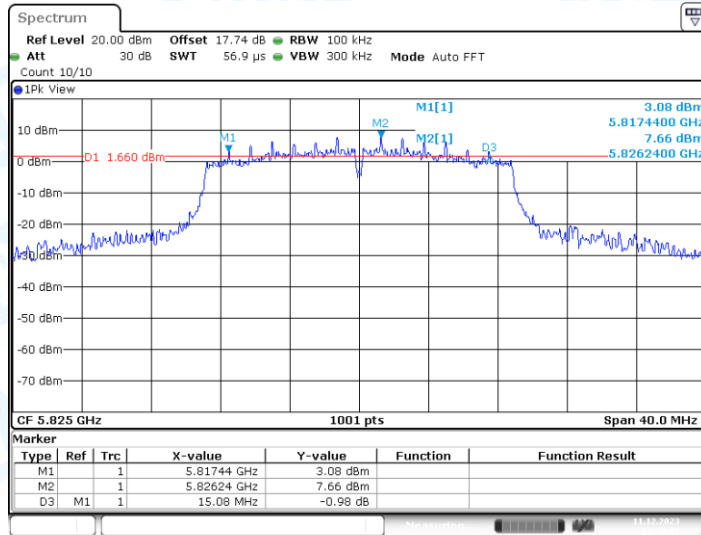
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11N20SISO_Ant1_5785



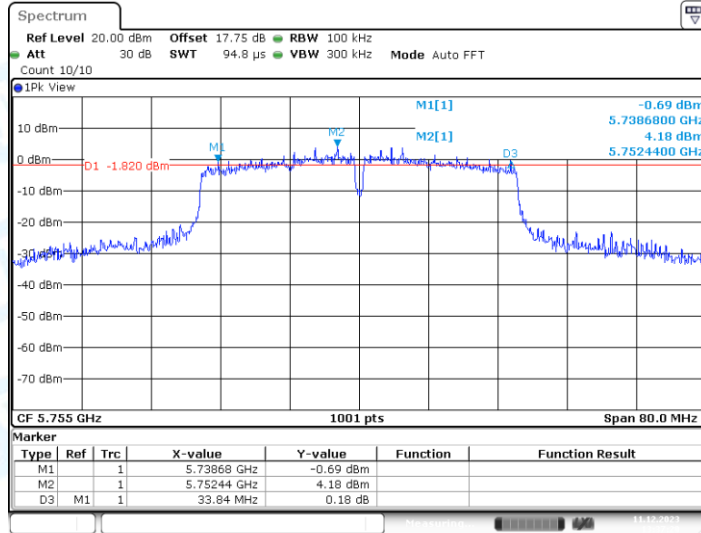
Date: 11.DEC.2023 11:58:25

11N20SISO_Ant1_5825



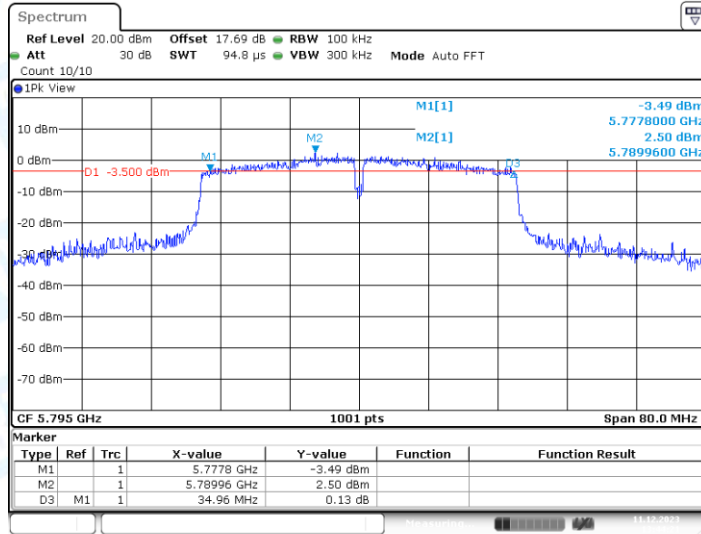
Date: 11.DEC.2023 13:30:42

11N40SISO_Ant1_5755



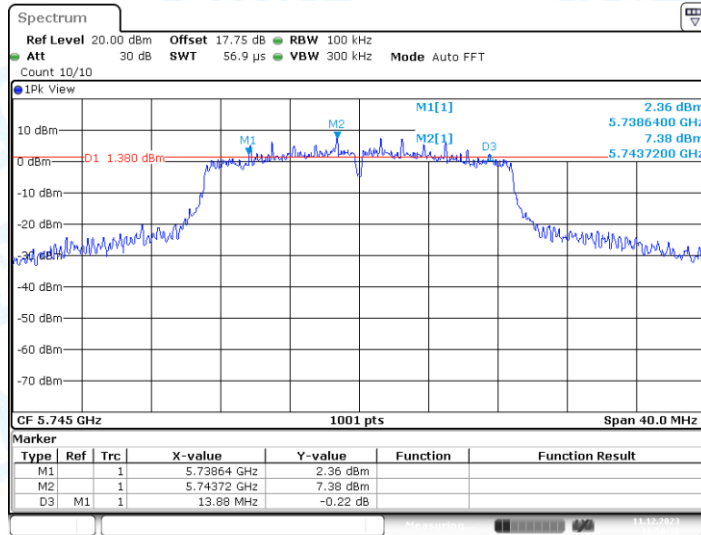
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11N40SISO_Ant1_5795



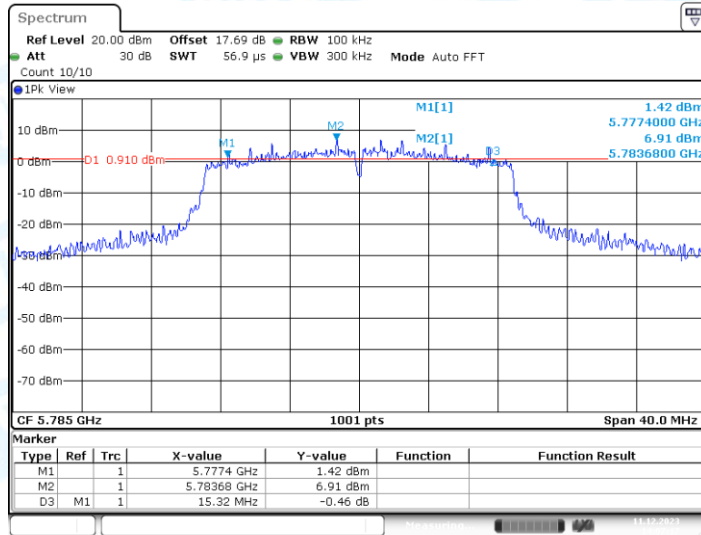
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11AC20SISO_Ant1_5745



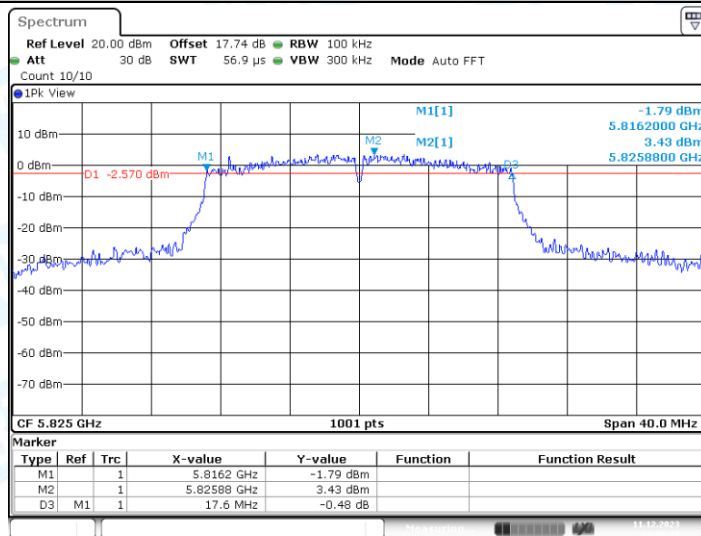
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11AC20SISO_Ant1_5785



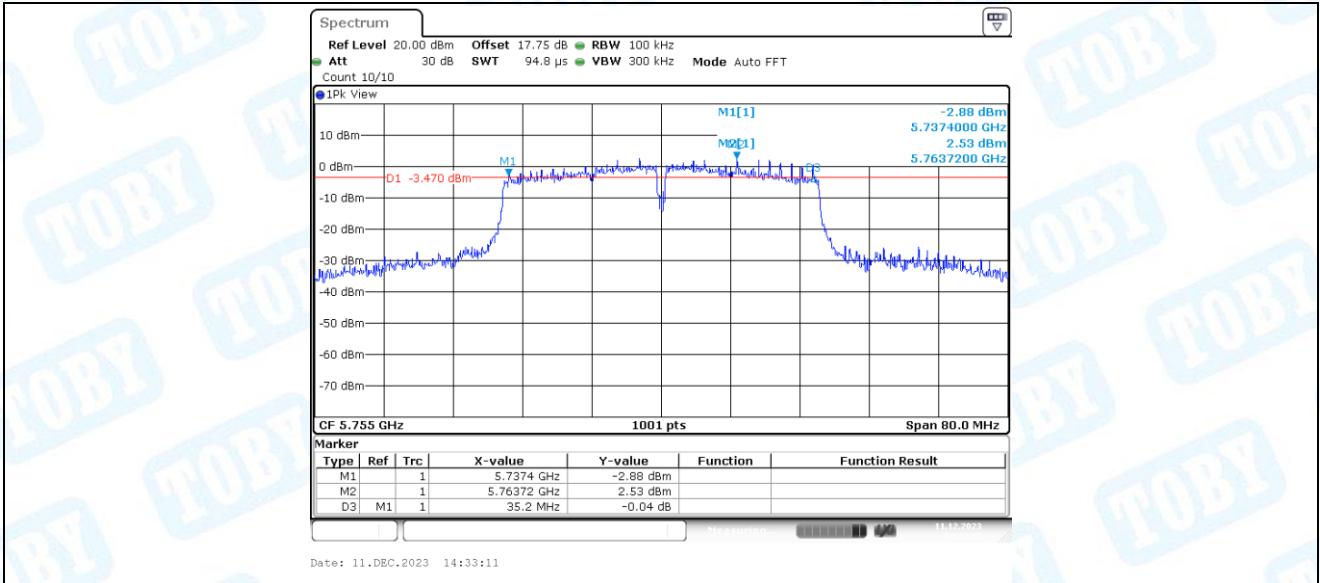
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11AC20SISO_Ant1_5825

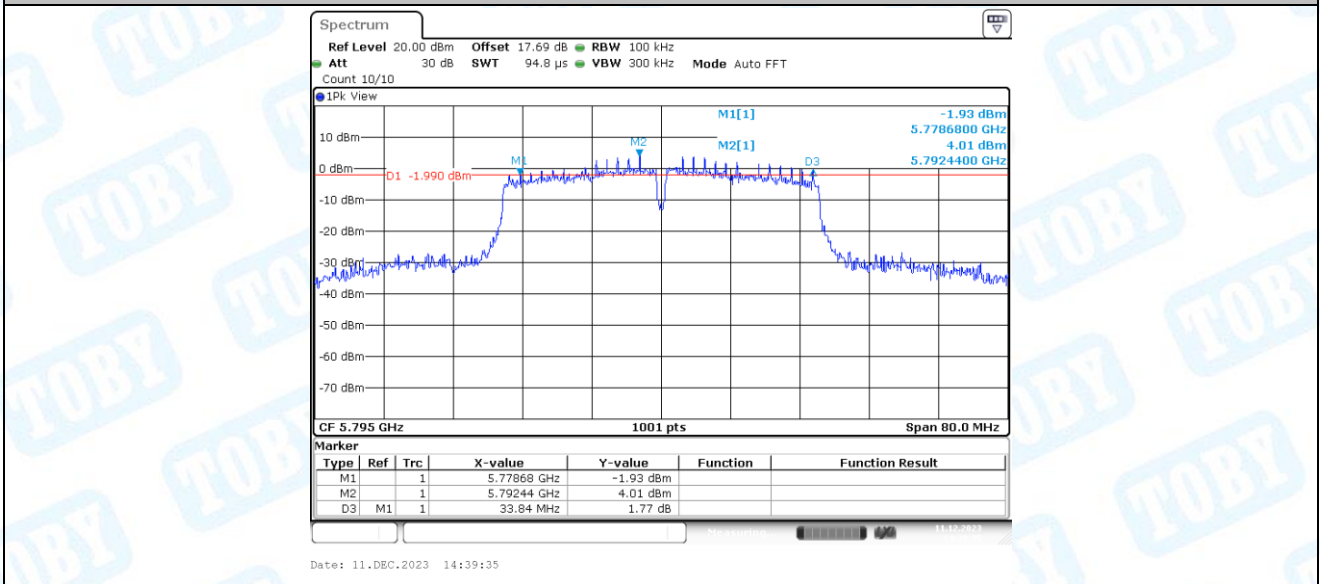


Date: 11.DEC.2023 14:26:34

11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



4. Maximum conducted output power

4.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	14.17	≤23.98	PASS
		5200	14.32	≤23.98	PASS
		5240	14.43	≤23.98	PASS
		5745	17.40	≤30.00	PASS
		5785	16.80	≤30.00	PASS
		5825	16.73	≤30.00	PASS
11N20SISO	Ant1	5180	14.27	≤23.98	PASS
		5200	14.05	≤23.98	PASS
		5240	14.11	≤23.98	PASS
		5745	16.64	≤30.00	PASS
		5785	17.19	≤30.00	PASS
		5825	17.85	≤30.00	PASS
11N40SISO	Ant1	5190	14.13	≤23.98	PASS
		5230	14.14	≤23.98	PASS
		5755	17.73	≤30.00	PASS
		5795	17.94	≤30.00	PASS
11AC20SISO	Ant1	5180	14.16	≤23.98	PASS
		5200	14.23	≤23.98	PASS
		5240	14.14	≤23.98	PASS
		5745	17.65	≤30.00	PASS
		5785	17.84	≤30.00	PASS
		5825	16.68	≤30.00	PASS
11AC40SISO	Ant1	5190	14.17	≤23.98	PASS
		5230	14.21	≤23.98	PASS
		5755	16.80	≤30.00	PASS
		5795	16.97	≤30.00	PASS

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

5. Maximum power spectral density

5.1. Test Result

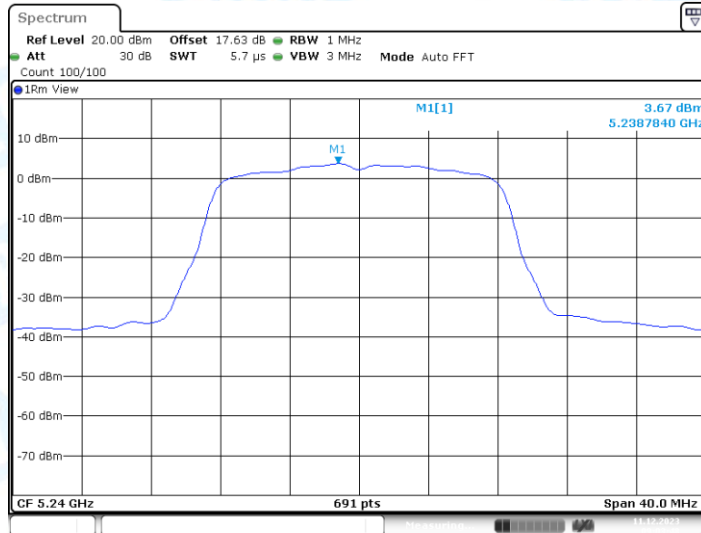
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.88	≤11.00	PASS
		5200	3.83	≤11.00	PASS
		5240	3.67	≤11.00	PASS
		5745	3.61	≤30.00	PASS
		5785	3.41	≤30.00	PASS
		5825	4.05	≤30.00	PASS
11N20SISO	Ant1	5180	3.60	≤11.00	PASS
		5200	3.82	≤11.00	PASS
		5240	3.27	≤11.00	PASS
		5745	4.17	≤30.00	PASS
		5785	3.93	≤30.00	PASS
		5825	4.60	≤30.00	PASS
11N40SISO	Ant1	5190	0.87	≤11.00	PASS
		5230	0.65	≤11.00	PASS
		5755	1.96	≤30.00	PASS
		5795	2.39	≤30.00	PASS
11AC20SISO	Ant1	5180	3.41	≤11.00	PASS
		5200	4.07	≤11.00	PASS
		5240	3.58	≤11.00	PASS
		5745	4.99	≤30.00	PASS
		5785	4.90	≤30.00	PASS
		5825	3.85	≤30.00	PASS
11AC40SISO	Ant1	5190	1.00	≤11.00	PASS
		5230	1.04	≤11.00	PASS
		5755	1.18	≤30.00	PASS
		5795	0.97	≤30.00	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.

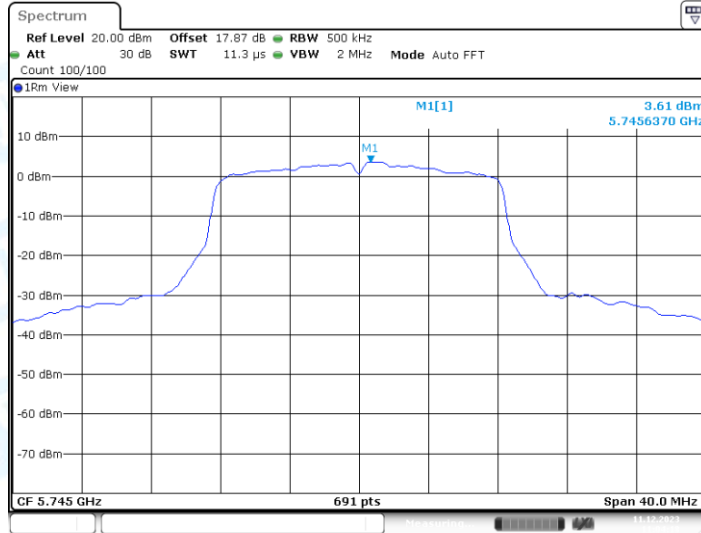
5.2. Test Graphs





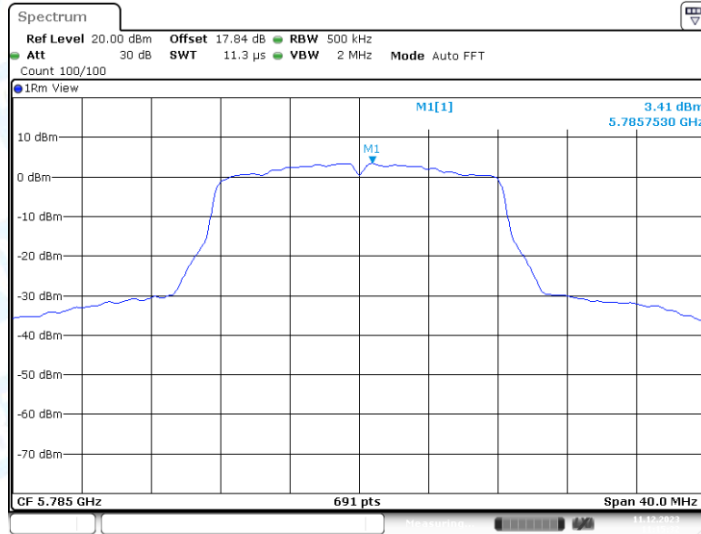
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11A_Ant1_5745



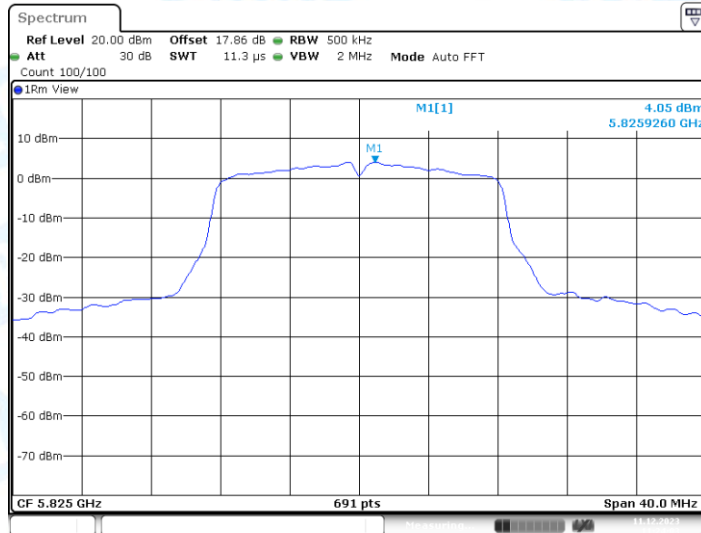
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11A_Ant1_5785



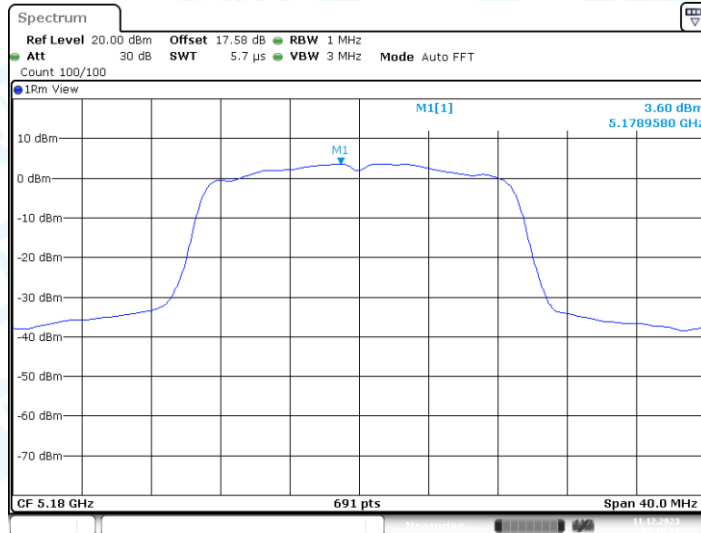
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11A_Ant1_5825



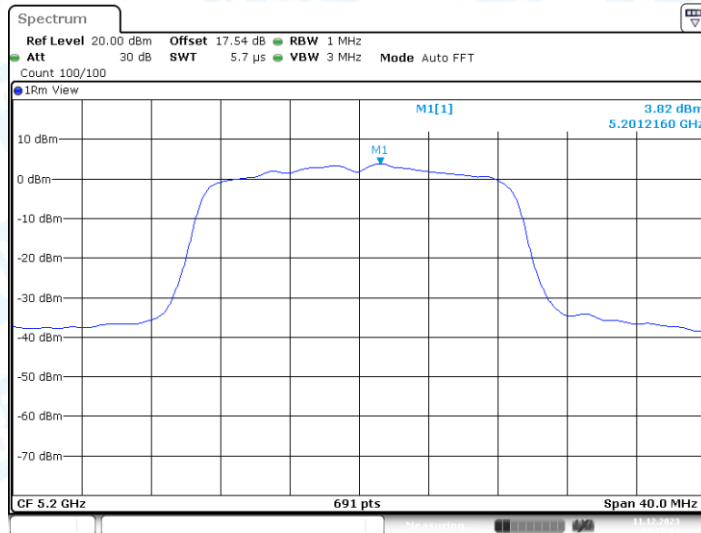
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11N20SISO_Ant1_5180



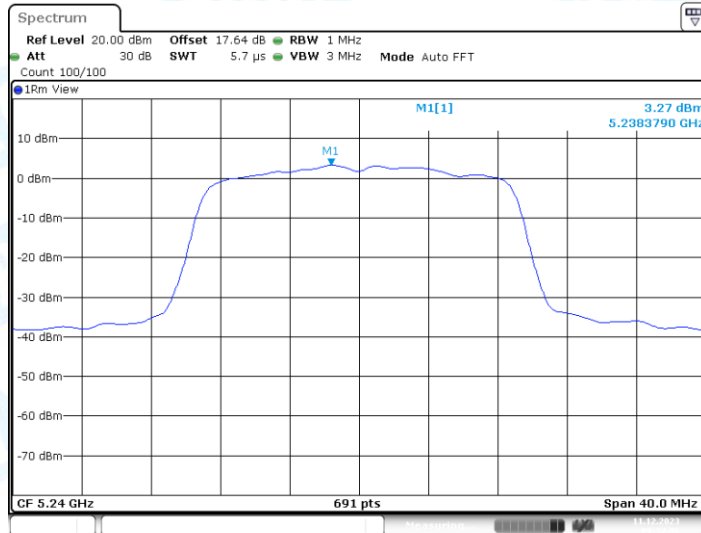
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11N20SISO_Ant1_5200



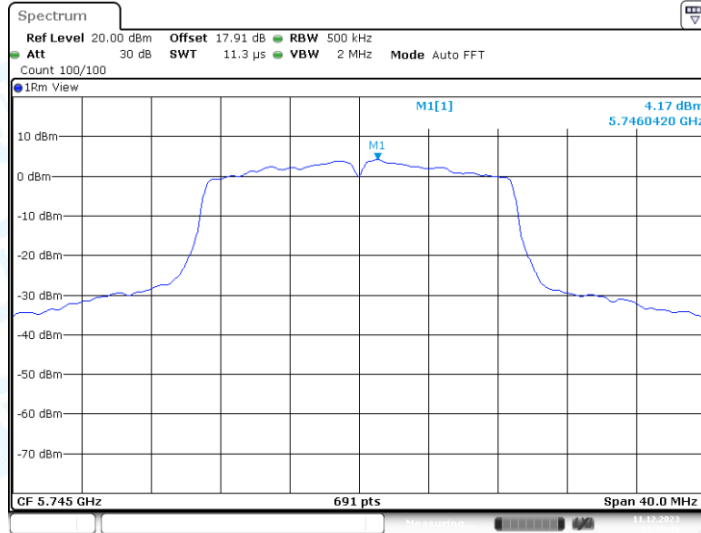
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11N20SISO_Ant1_5240



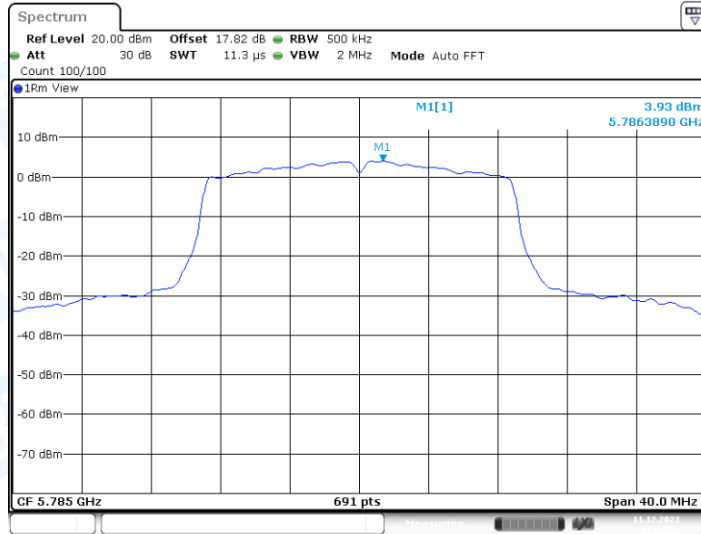
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11N20SISO_Ant1_5745



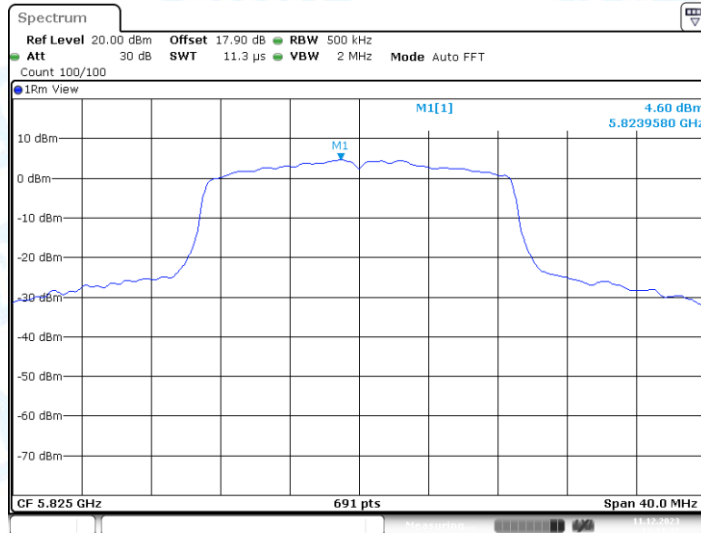
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11N20SISO_Ant1_5785



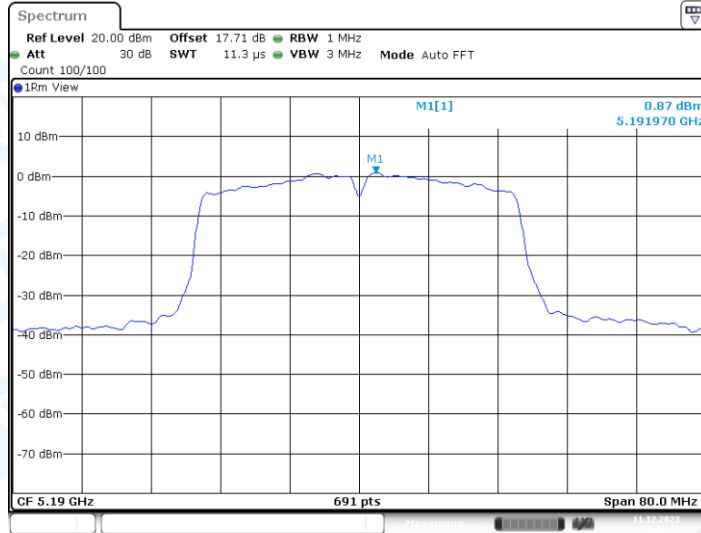
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11N20SISO_Ant1_5825



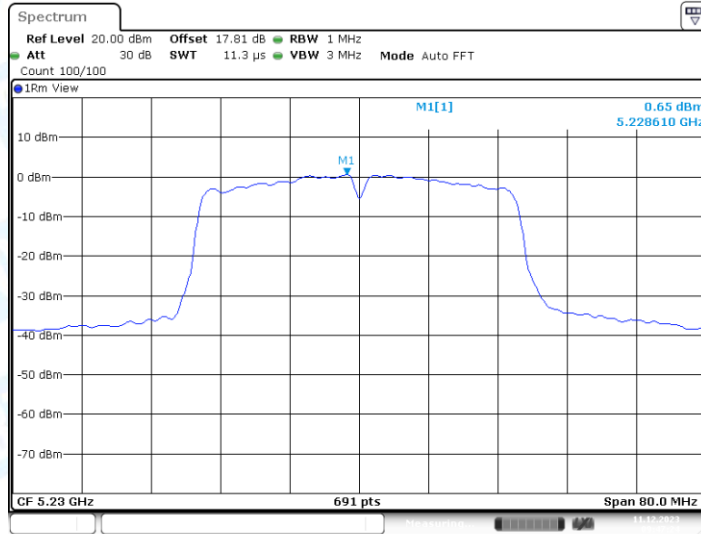
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11N40SISO_Ant1_5190



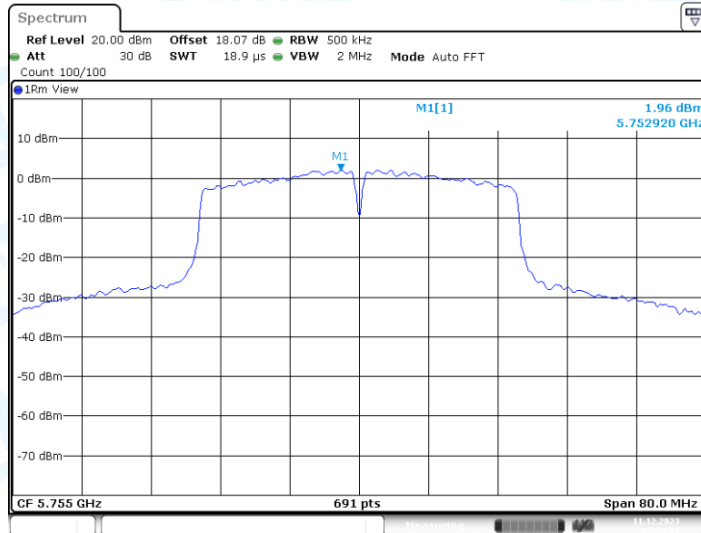
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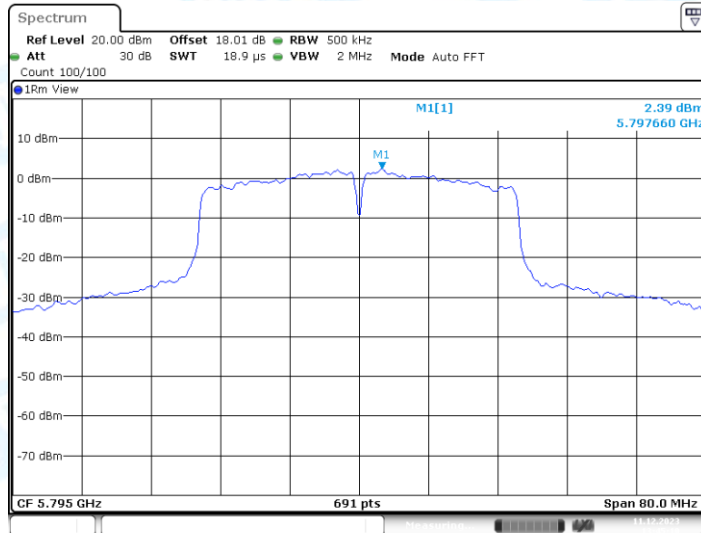


Date: 11.DEC.2023 09:47:24

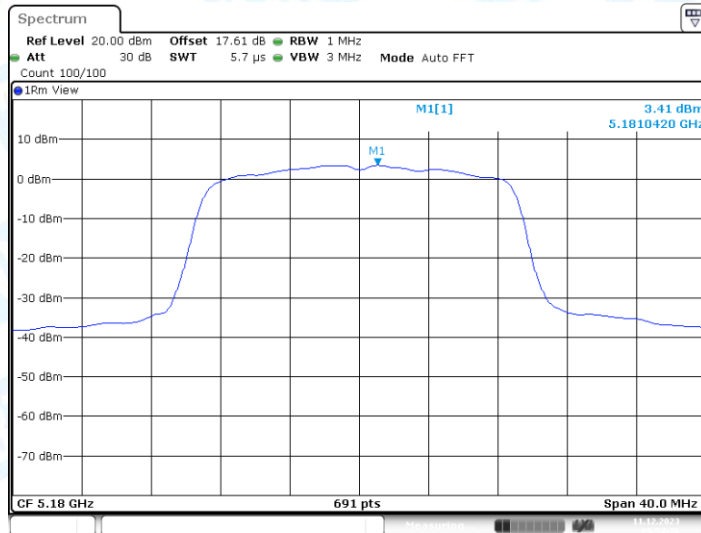
11N40SISO_Ant1_5755



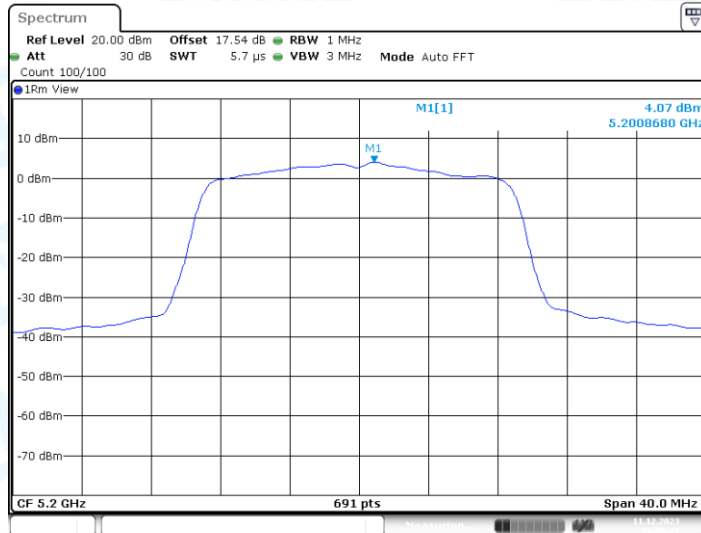
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11AC20SISO_Ant1_5180

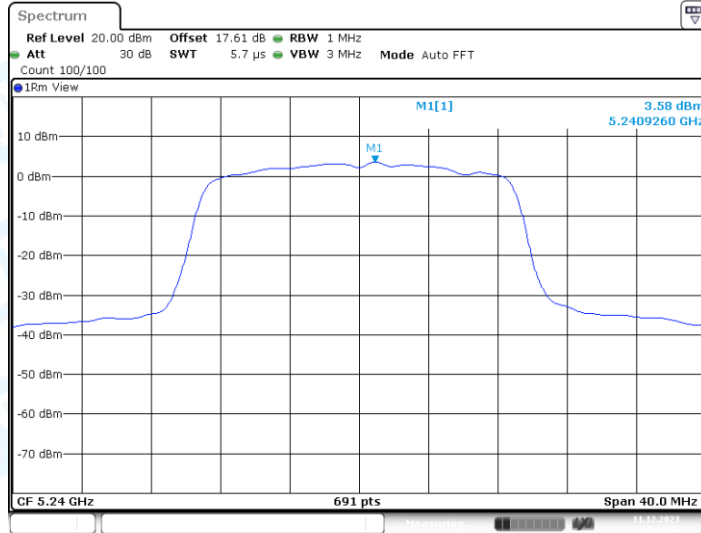


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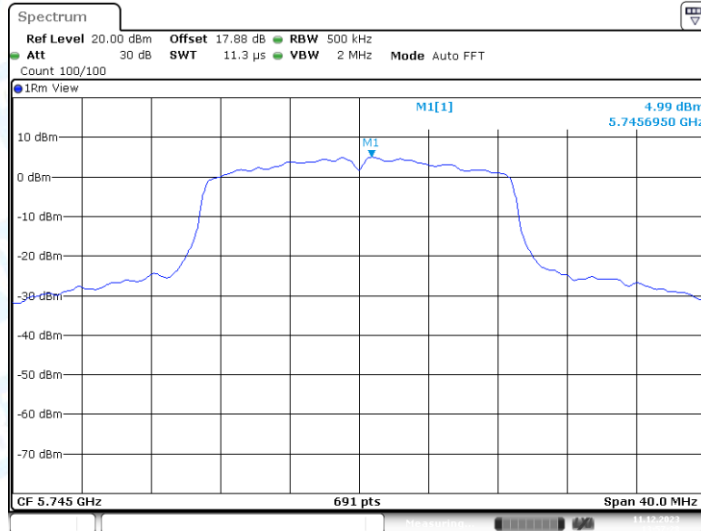
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11AC20SISO_Ant1_5240



Date: 11.DEC.2023 10:11:47

11AC20SISO_Ant1_5745



Date: 11.DEC.2023 13:57:28

11AC20SISO_Ant1_5785