

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

General Description of EUT	
Product Name:	Deeper Connect Wi-Fi Adapter
Test Model:	DCWA01B
Sample ID:	HC-C-202312-0266-02-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	Zhou Zhen
Note: For a more detailed features description, please refer to the report TBR-C-202312-0266-11	

Contents

1. Emission Bandwidth.....	3
1.1. Test Result.....	3
1.2. Test Graphs	4
2. Occupied channel bandwidth	9
2.1. Test Result.....	9
2.2. Test Graphs	10
3. Min emission bandwidth	20
3.1. Test Result.....	20
3.2. Test Graphs	21
4. Maximum conducted output power.....	26
4.1. Test Result.....	26
5. Maximum power spectral density	27
5.1. Test Result.....	27
5.2. Test Graphs	28
6. Band edge measurements	38
6.1. Test Result.....	38
6.2. Test Graphs	40
7. Emissions in Restricted Bands.....	48
7.1. Test Result.....	48
7.2. Test Graphs	51
8. Conducted Spurious Emission.....	63
8.1. Test Result.....	63
8.2. Test Graphs	65
9. Frequency Stability	84
9.1. Test Result.....	84
10. Duty Cycle	92
10.1. Test Result.....	92
10.2. Test Graphs	93

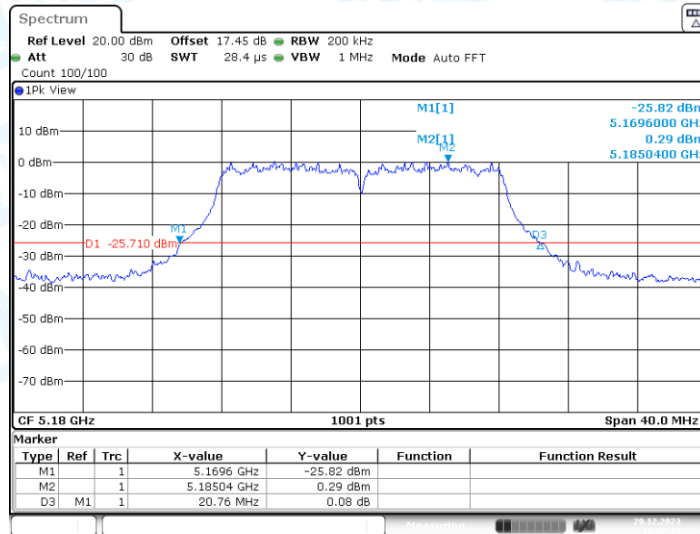
1. Emission Bandwidth

1.1. Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.76	5169.60	5190.36	---	---
		5200	20.76	5189.84	5210.60	---	---
		5240	21.04	5229.36	5250.40	---	---
11N20SISO	Ant1	5180	21.04	5169.52	5190.56	---	---
		5200	20.96	5189.56	5210.52	---	---
		5240	20.88	5229.48	5250.36	---	---
11N40SISO	Ant1	5190	41.84	5169.28	5211.12	---	---
		5230	41.92	5208.80	5250.72	---	---
11AC20SISO	Ant1	5180	20.76	5169.60	5190.36	---	---
		5200	21.00	5189.36	5210.36	---	---
		5240	21.32	5229.20	5250.52	---	---
11AC40SISO	Ant1	5190	42.00	5168.80	5210.80	---	---
		5230	42.24	5208.80	5251.04	---	---
11AC80SISO	Ant1	5210	80.32	5170.00	5250.32	---	---

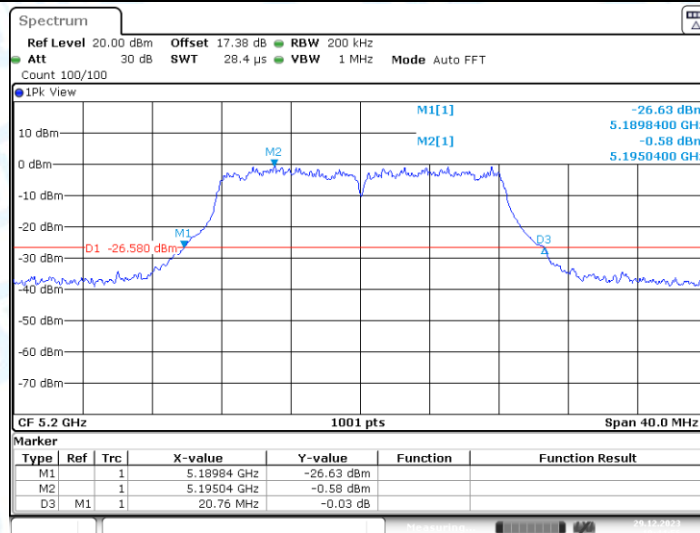
1.2. Test Graphs

11A_Ant1_5180



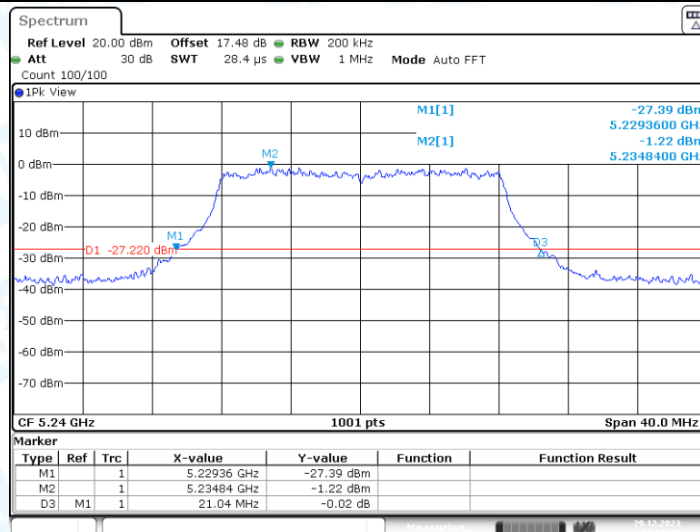
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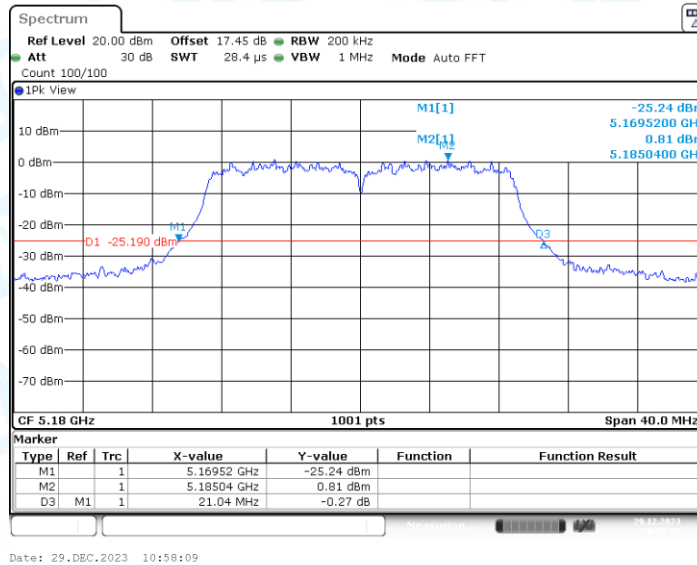
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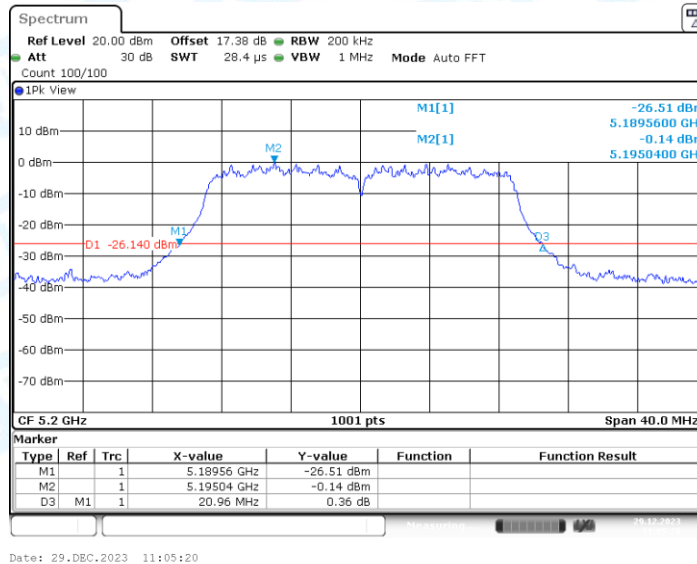


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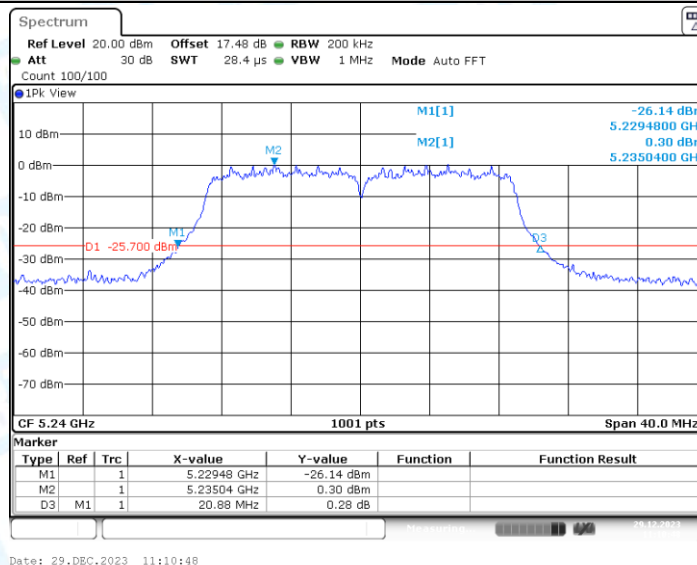
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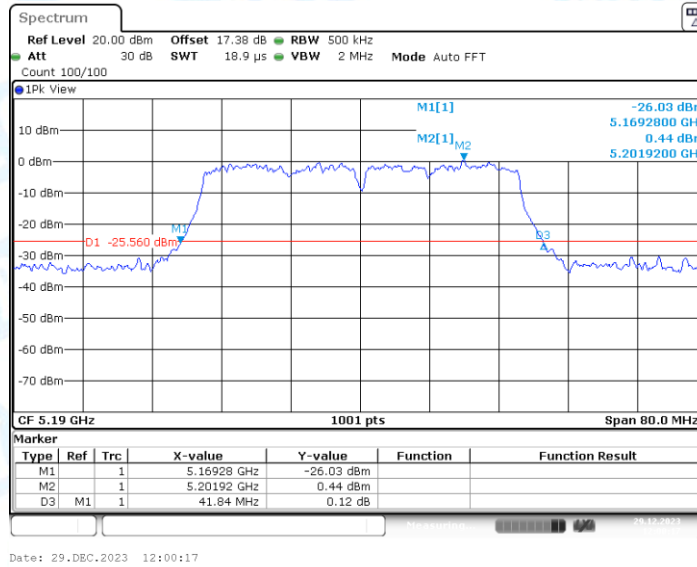
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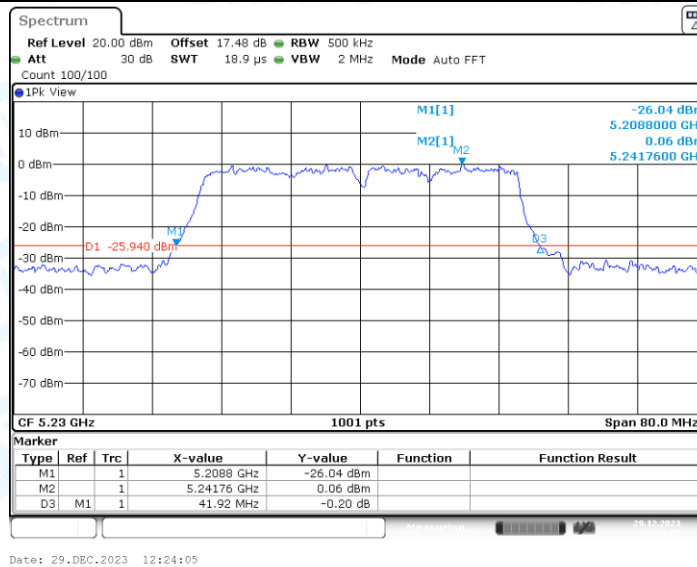
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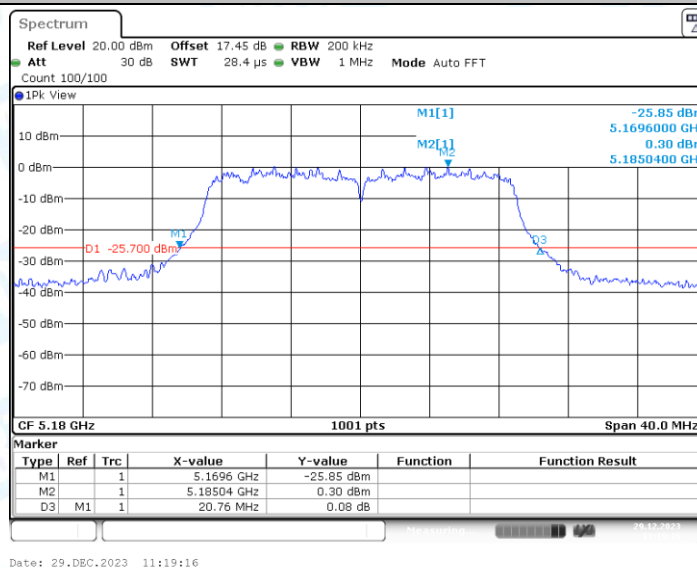
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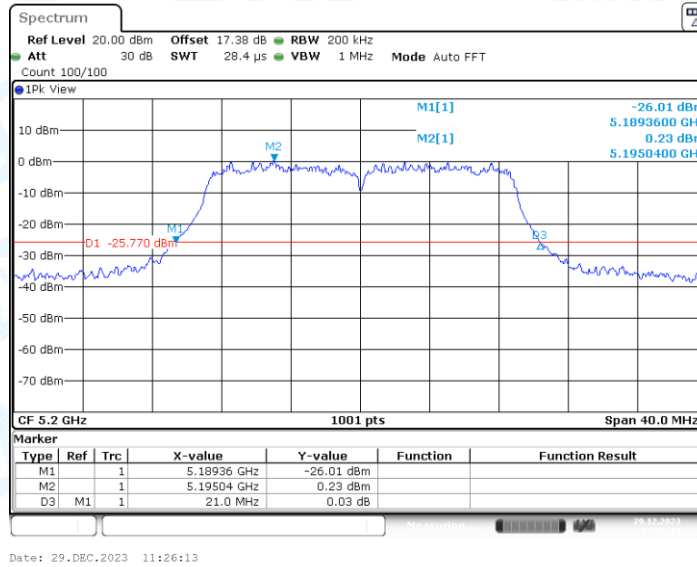
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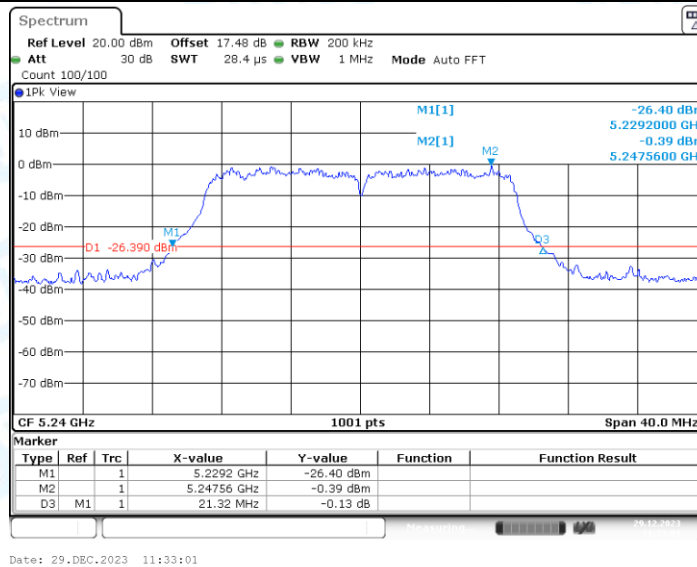
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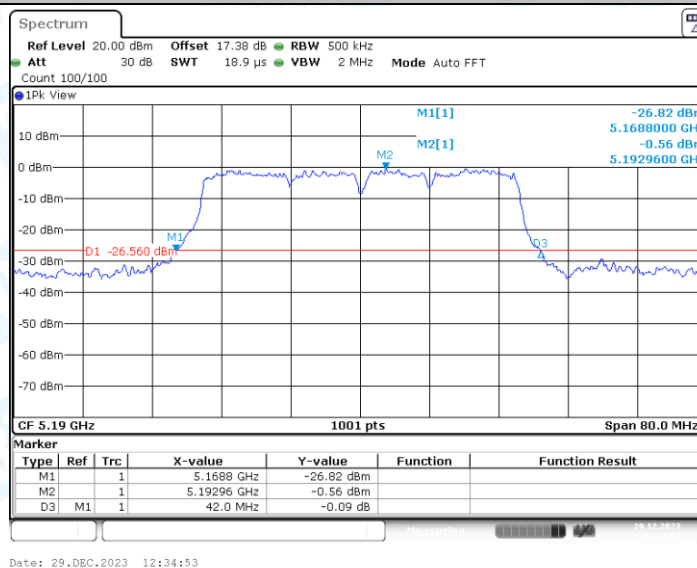
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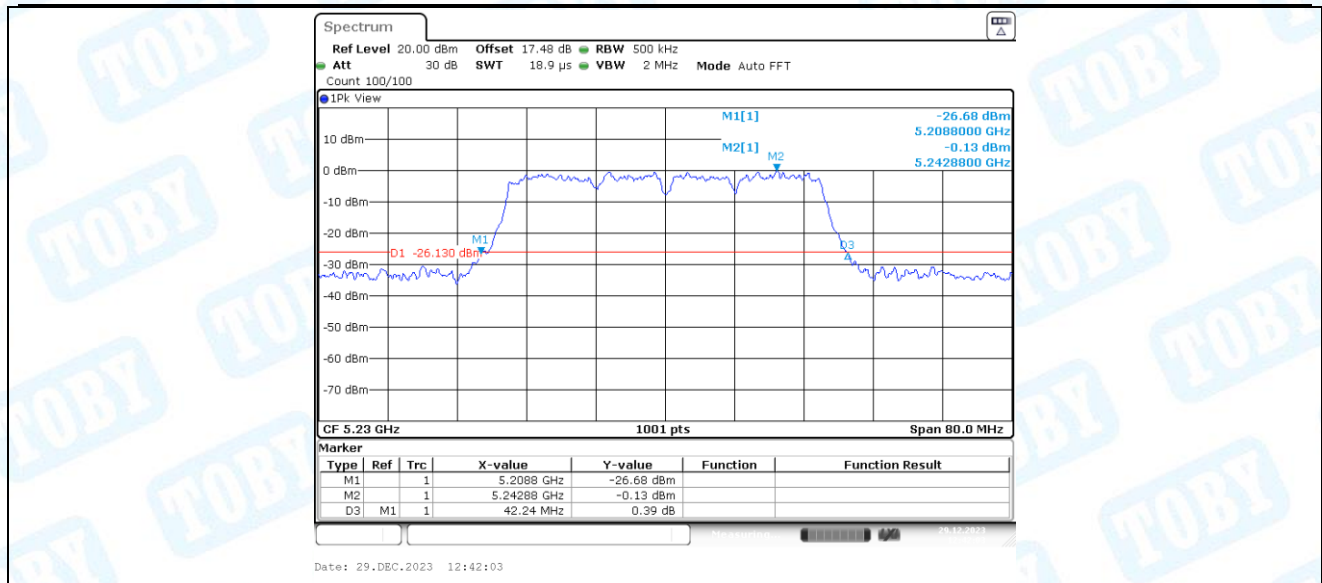
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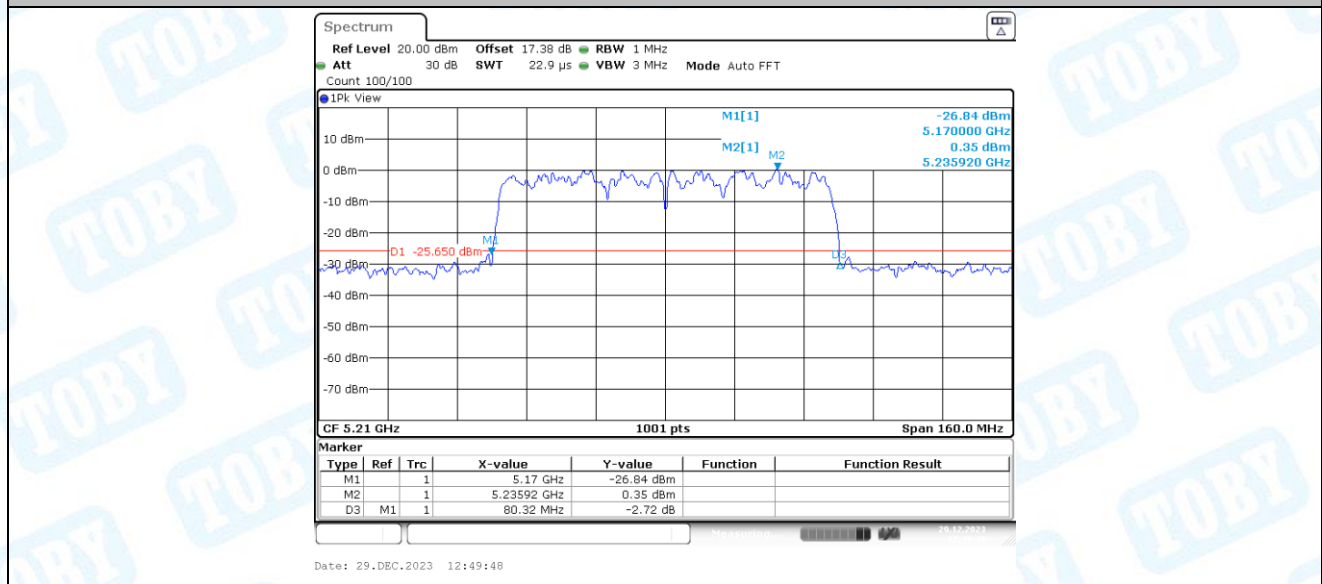
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11AC40SISO_Ant1_5230



11A80SISO_Ant1_5210

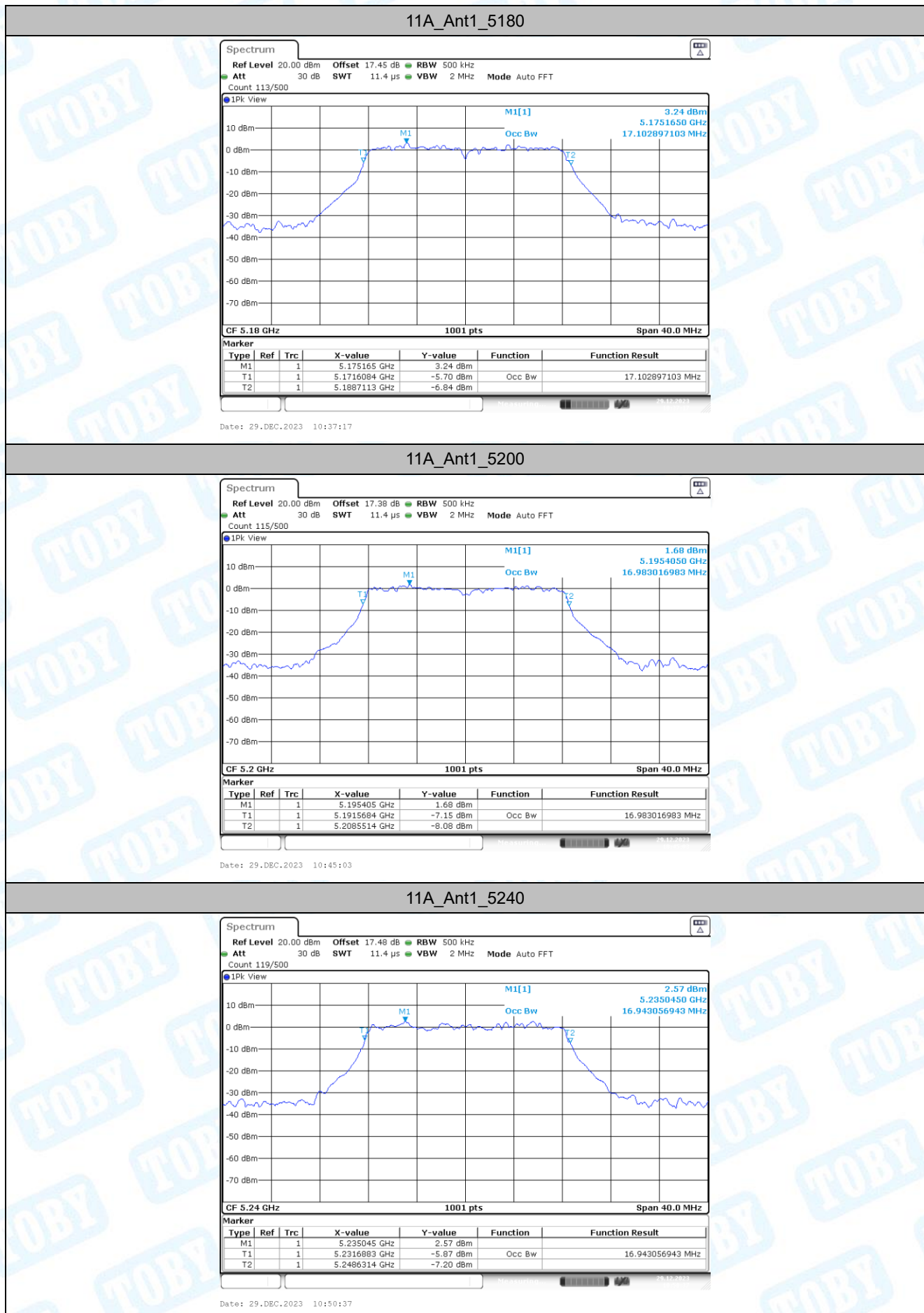


2. Occupied channel bandwidth

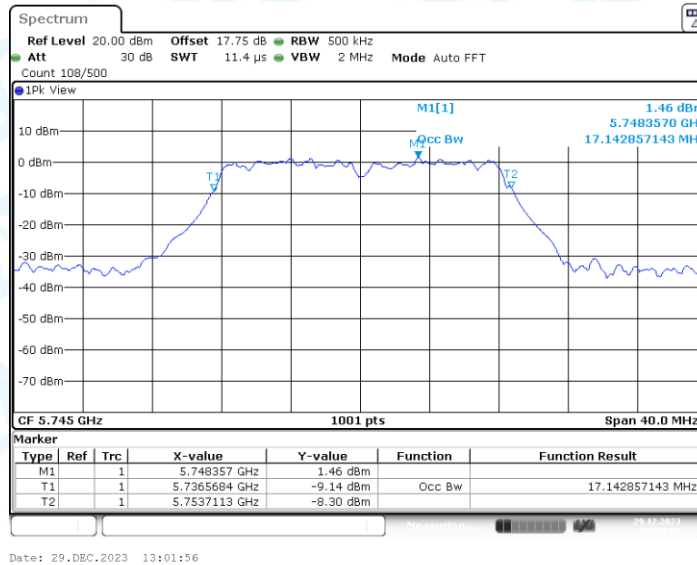
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.103	5171.6084	5188.7113	---	---
		5200	16.983	5191.5684	5208.5514	---	---
		5240	16.943	5231.6883	5248.6314	---	---
		5745	17.143	5736.5684	5753.7113	---	---
		5785	17.423	5776.4086	5793.8312	---	---
		5825	17.383	5816.5285	5833.9111	---	---
11N20SISO	Ant1	5180	18.182	5171.0889	5189.2707	---	---
		5200	18.102	5190.8891	5208.9910	---	---
		5240	18.262	5230.8492	5249.1109	---	---
		5745	17.862	5736.1688	5754.0310	---	---
		5785	18.062	5775.9291	5793.9910	---	---
		5825	18.182	5816.0090	5834.1908	---	---
11N40SISO	Ant1	5190	36.843	5171.2987	5208.1419	---	---
		5230	36.284	5211.9381	5248.2218	---	---
		5755	36.603	5736.9381	5773.5415	---	---
		5795	36.364	5776.8581	5813.2218	---	---
11AC20SISO	Ant1	5180	17.942	5171.0090	5188.9510	---	---
		5200	17.902	5191.0490	5208.9510	---	---
		5240	17.662	5231.2088	5248.8711	---	---
		5745	17.942	5736.1289	5754.0709	---	---
		5785	17.862	5776.1688	5794.0310	---	---
		5825	17.782	5816.2088	5833.9910	---	---
11AC40SISO	Ant1	5190	36.284	5171.9381	5208.2218	---	---
		5230	36.364	5211.9381	5248.3017	---	---
		5755	36.284	5736.8581	5773.1419	---	---
		5795	36.683	5776.8581	5813.5415	---	---
11AC80SISO	Ant1	5210	76.244	5171.7982	5248.0420	---	---
		5775	76.723	5736.6384	5813.3616	---	---

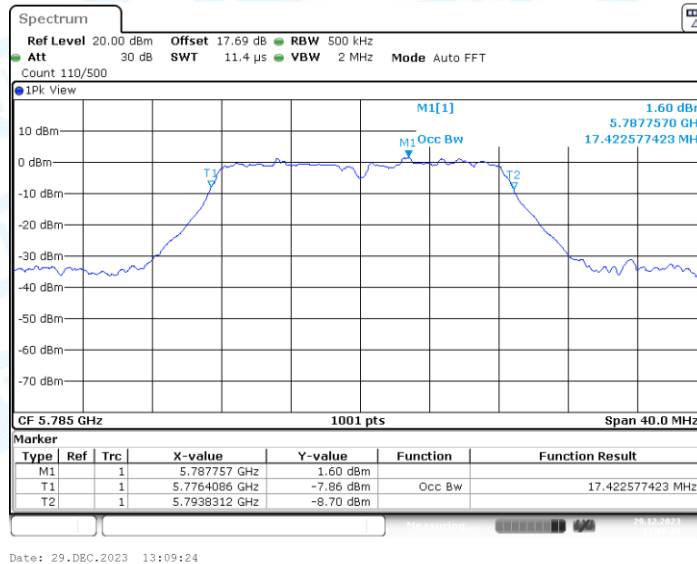
2.2. Test Graphs



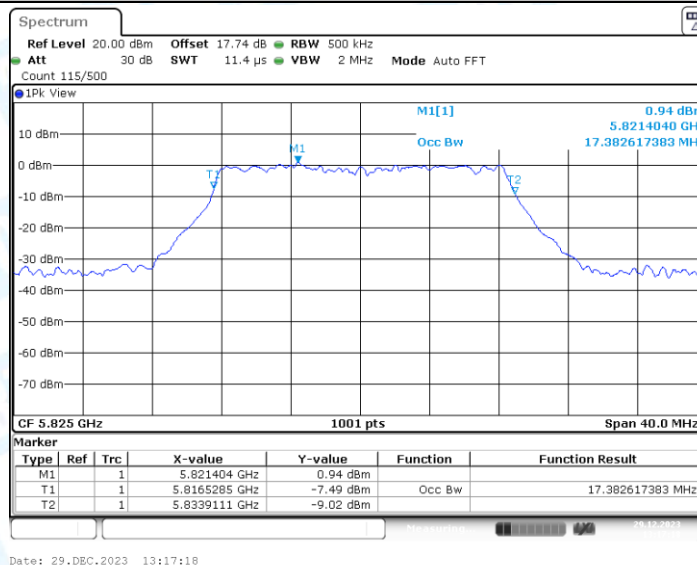
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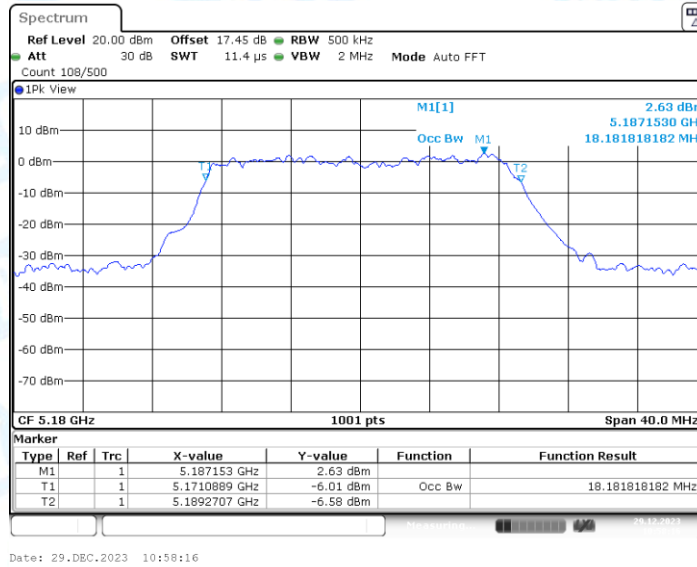
11A_Ant1_5785



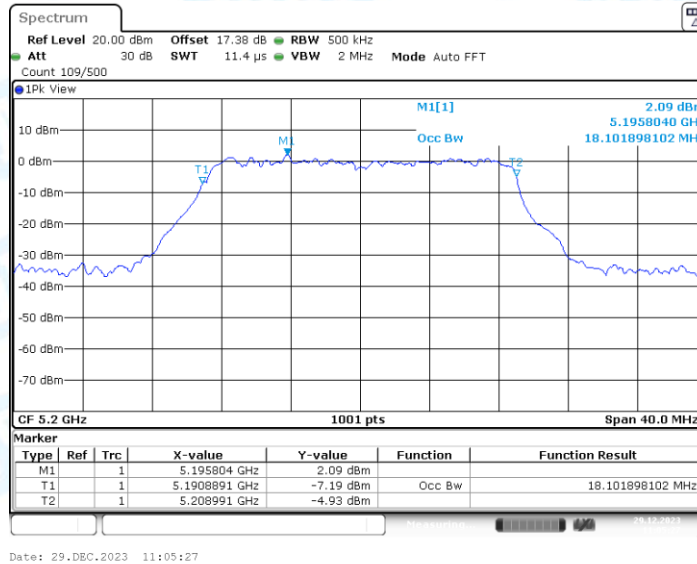
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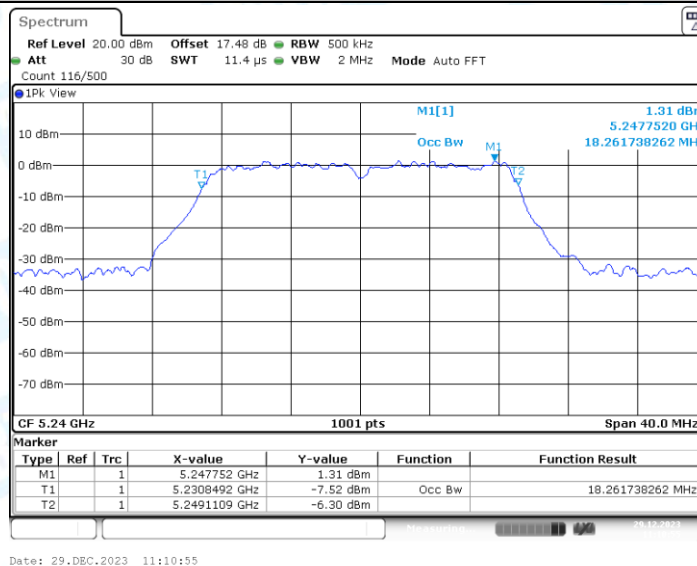
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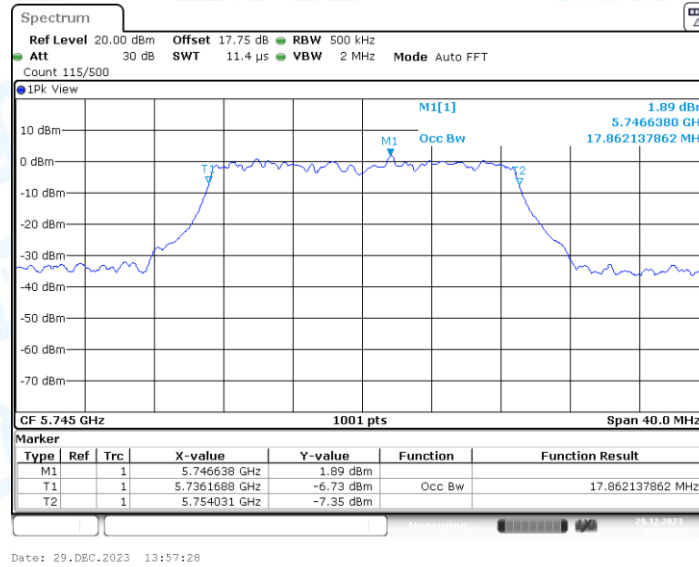
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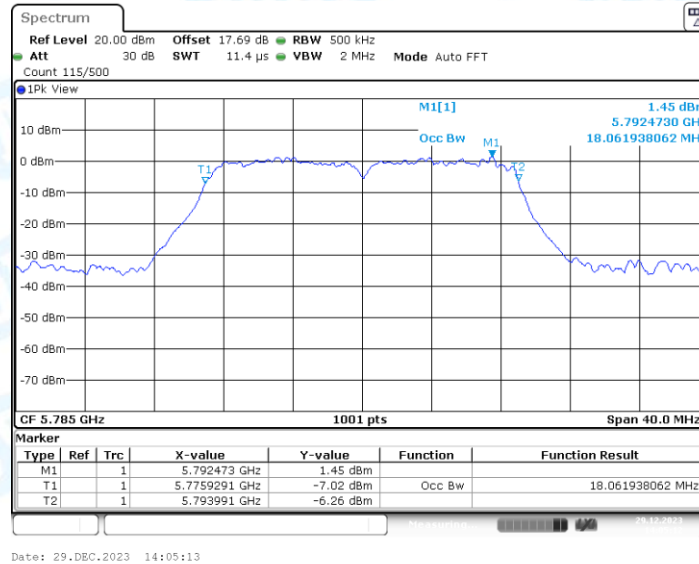
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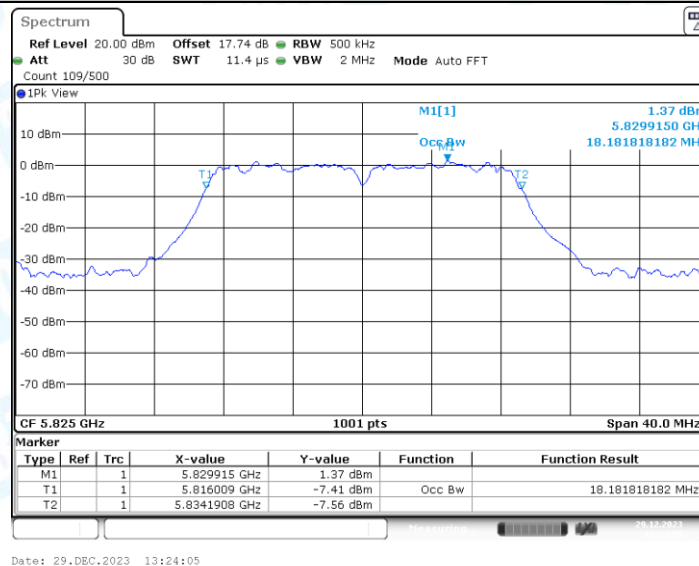
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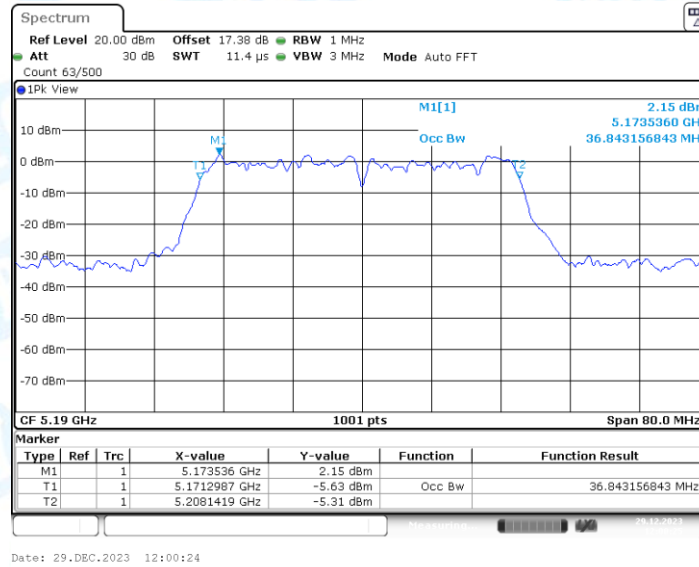
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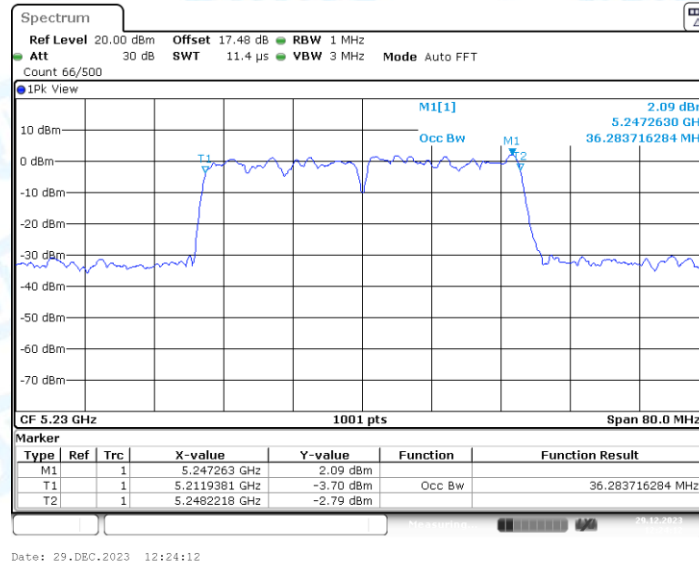
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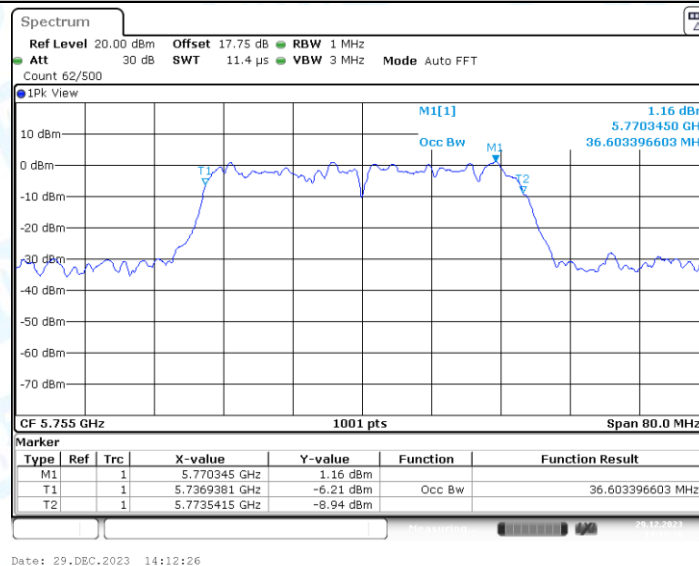
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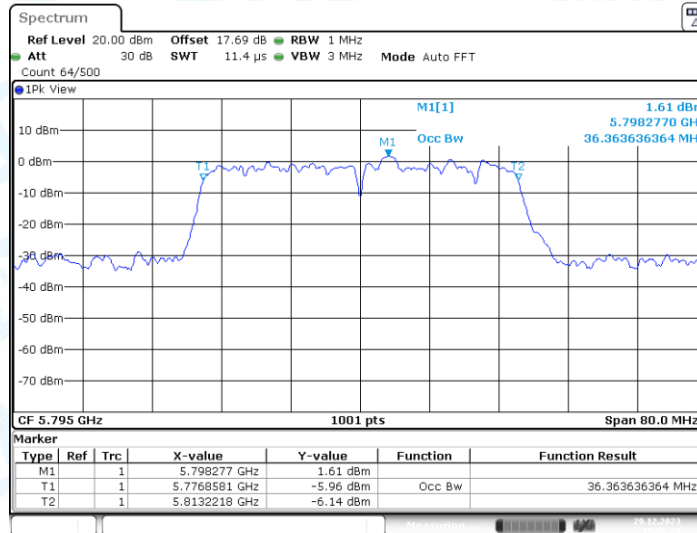
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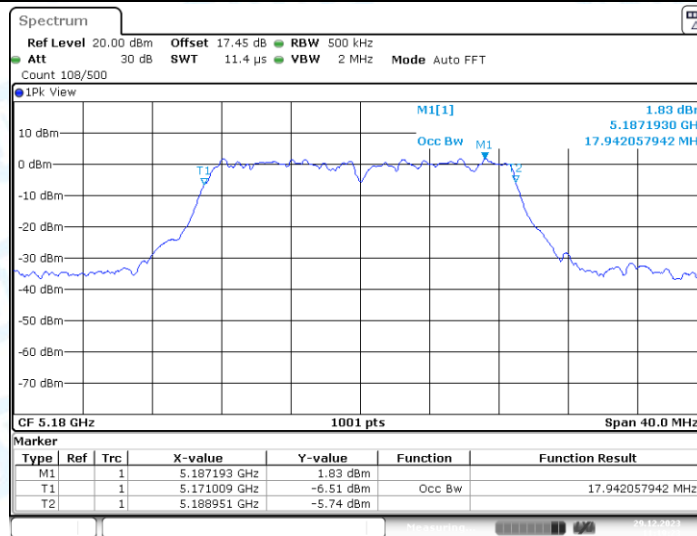
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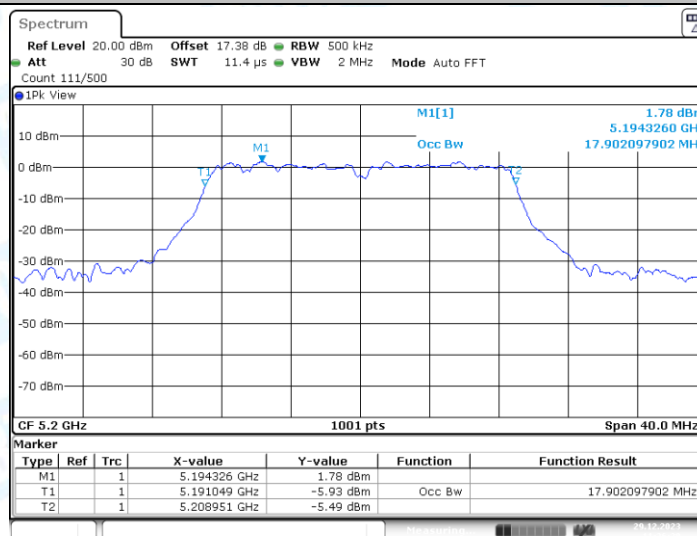
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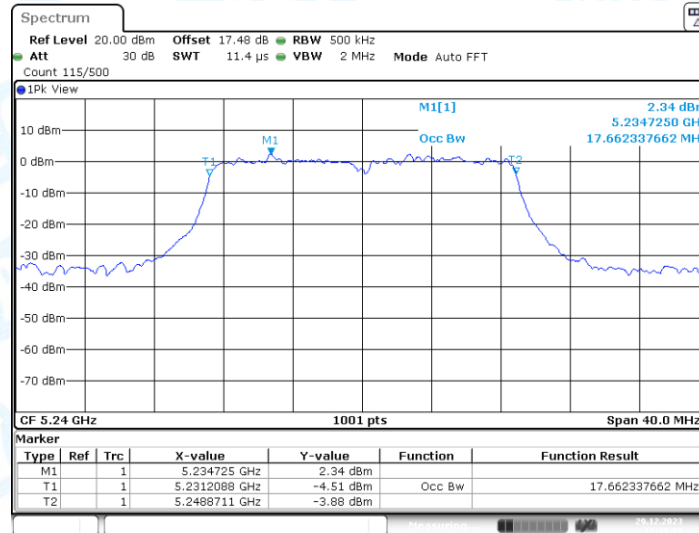
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11AC20SISO_Ant1_5200

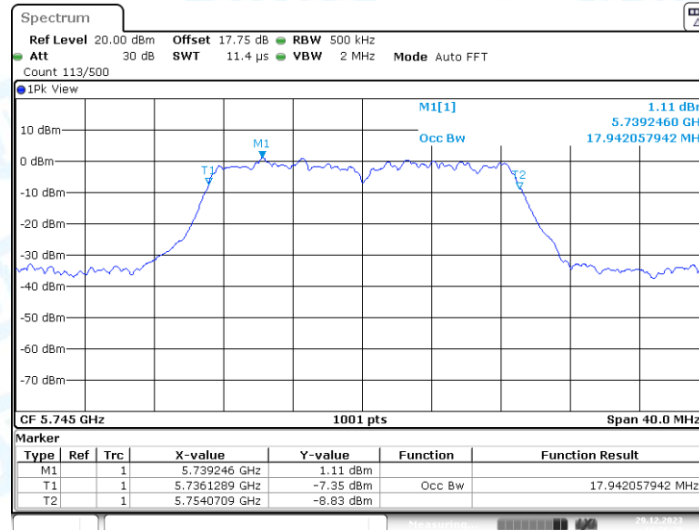


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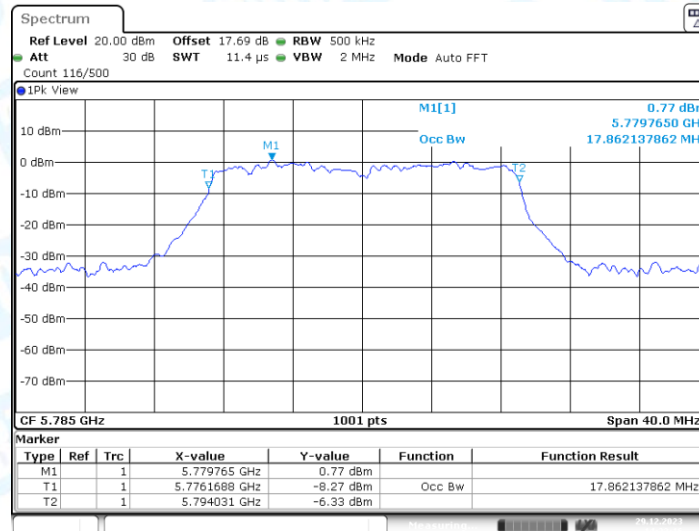
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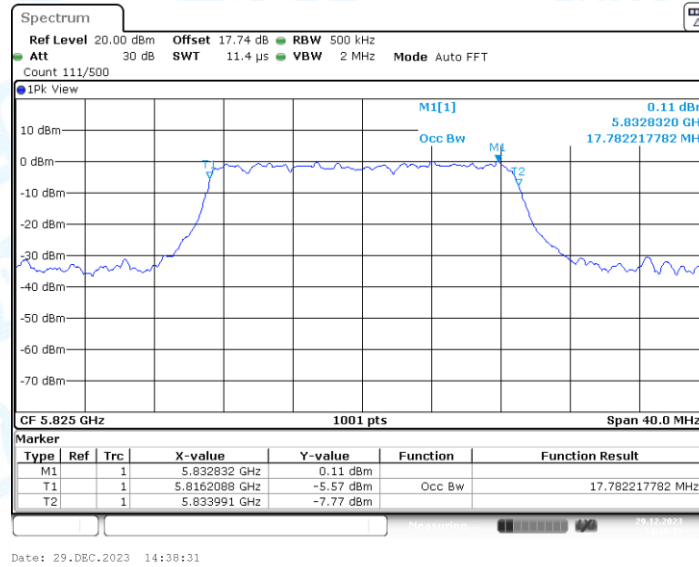
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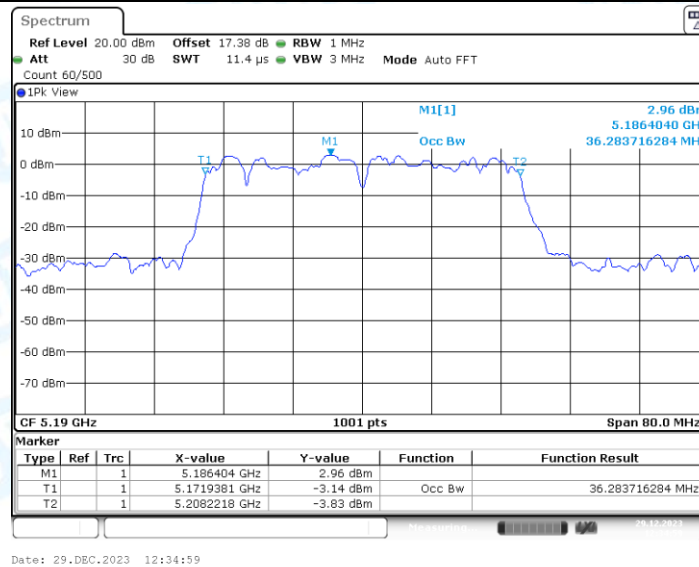


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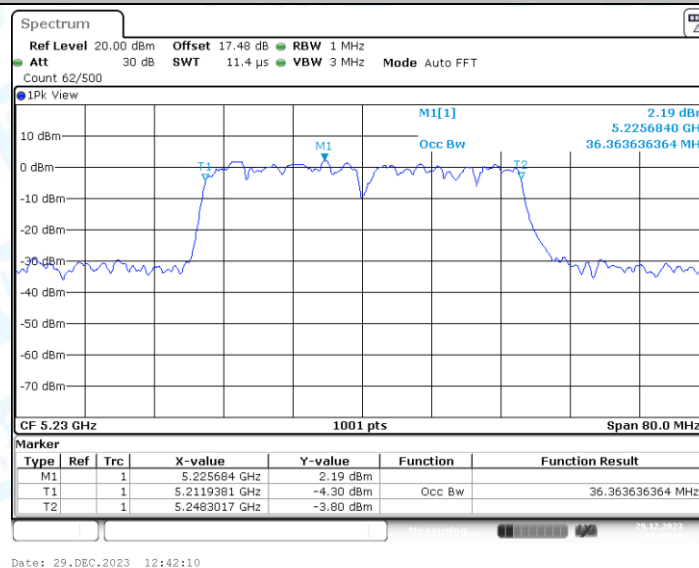
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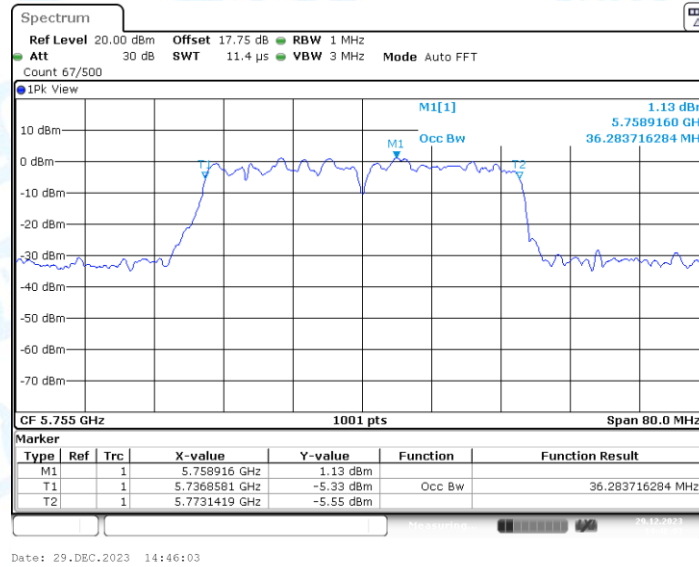
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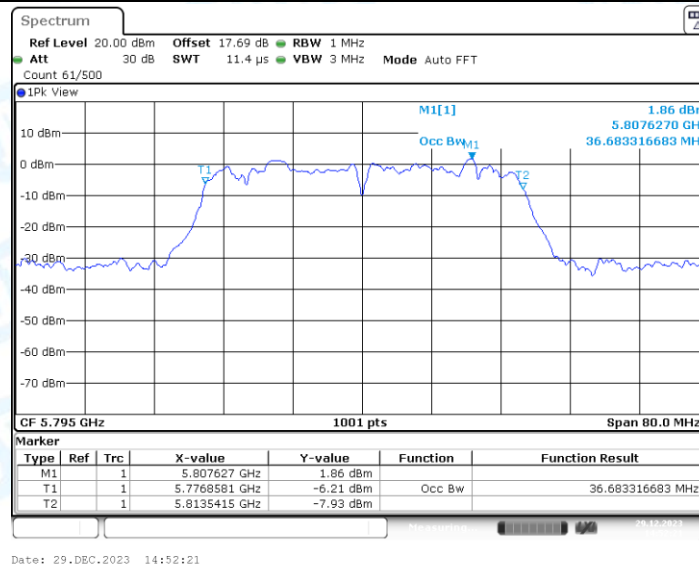
11AC40SISO_Ant1_5230



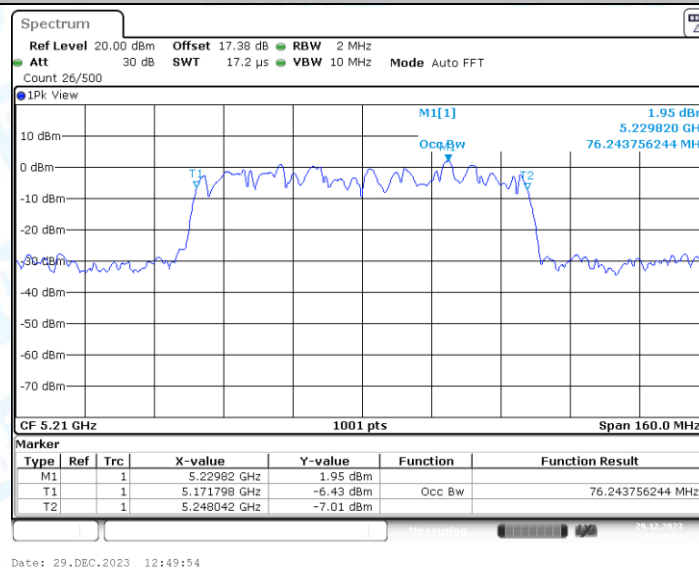
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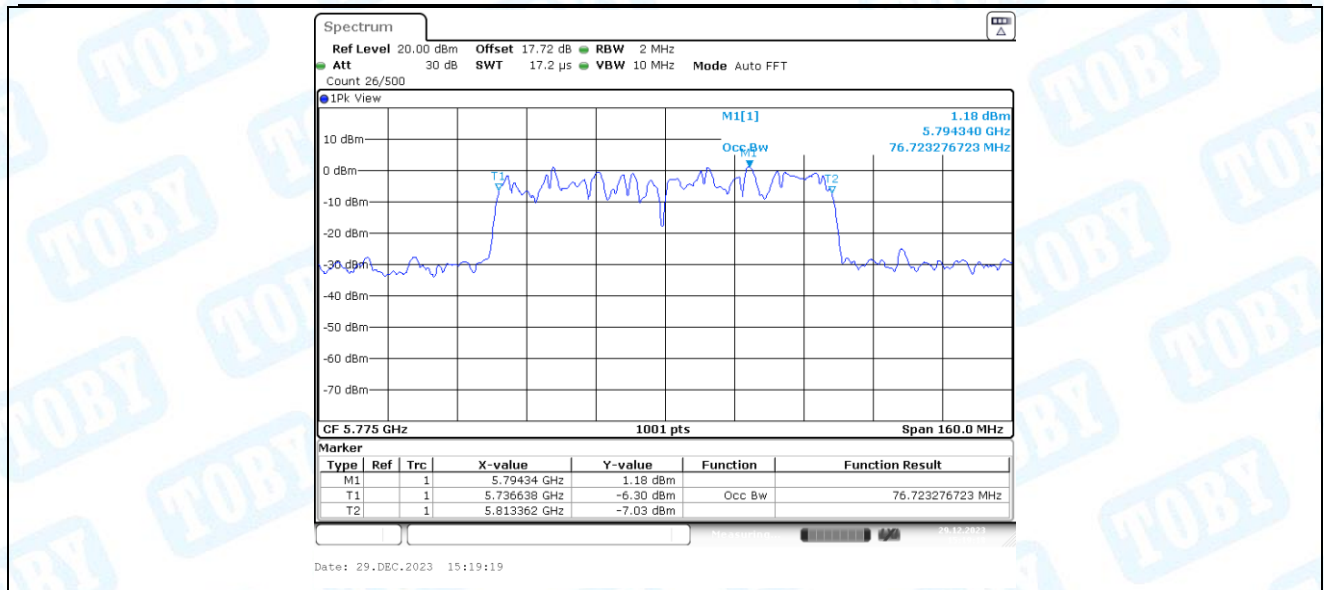
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11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

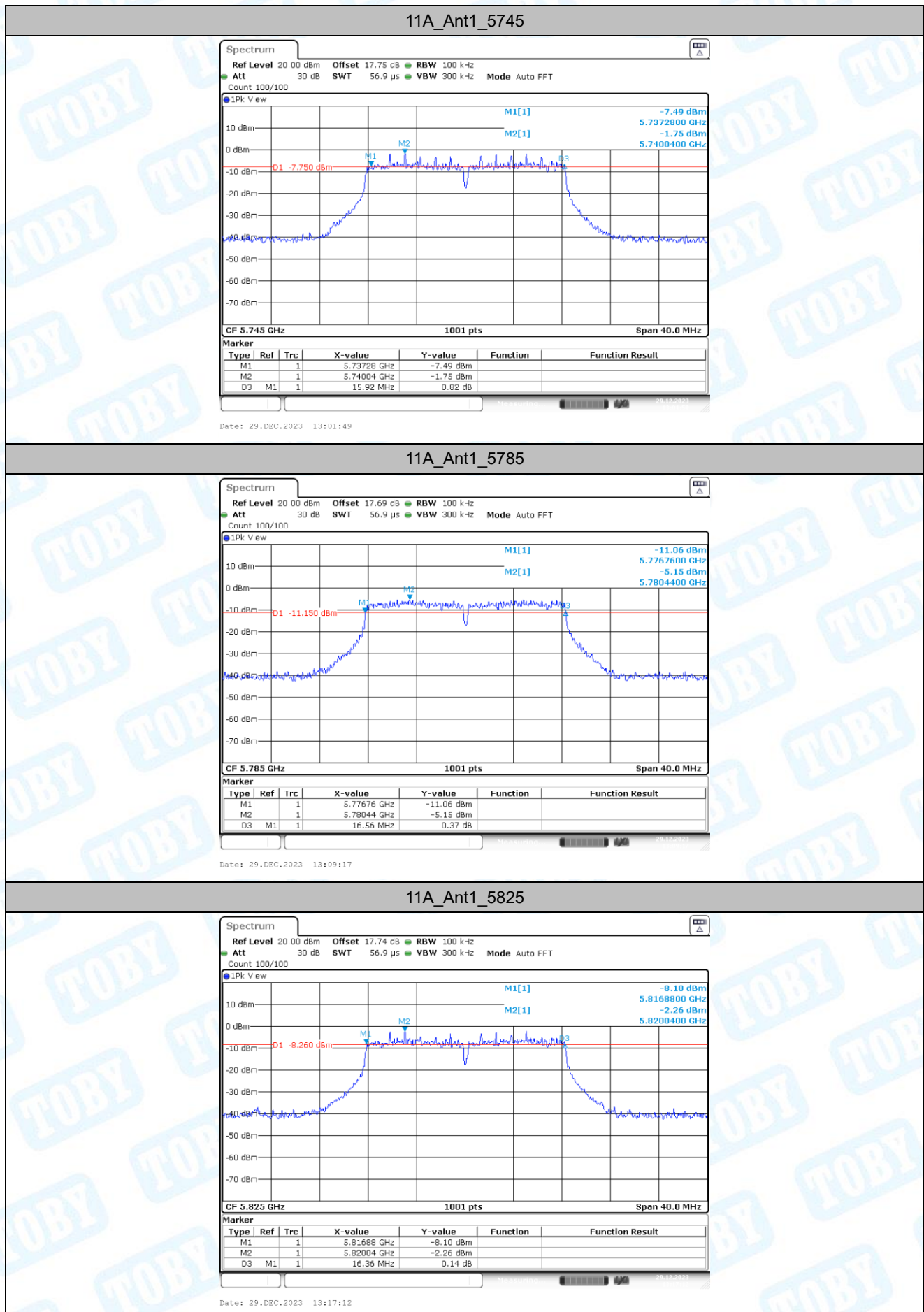


3. Min emission bandwidth

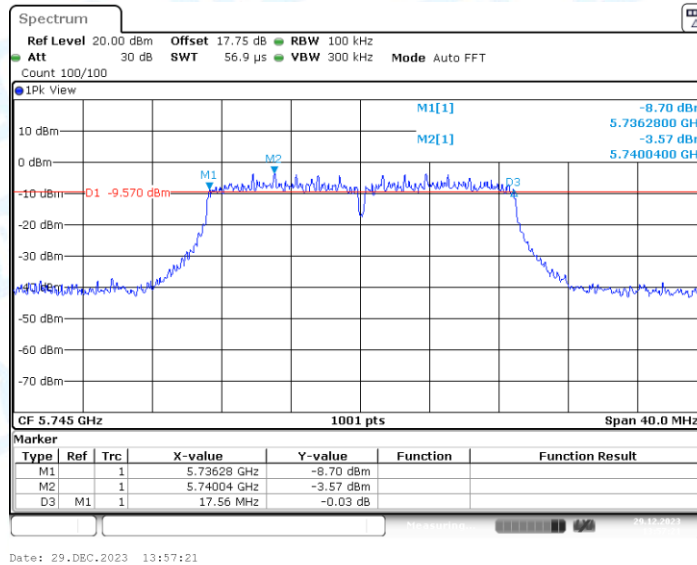
3.1. Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.92	5737.28	5753.20	0.5	PASS
		5785	16.56	5776.76	5793.32	0.5	PASS
		5825	16.36	5816.88	5833.24	0.5	PASS
11N20SISO	Ant1	5745	17.56	5736.28	5753.84	0.5	PASS
		5785	16.72	5776.88	5793.60	0.5	PASS
		5825	17.56	5816.28	5833.84	0.5	PASS
11N40SISO	Ant1	5755	36.40	5736.84	5773.24	0.5	PASS
		5795	35.68	5777.56	5813.24	0.5	PASS
11AC20SISO	Ant1	5745	17.20	5736.64	5753.84	0.5	PASS
		5785	17.16	5776.64	5793.80	0.5	PASS
		5825	17.64	5816.24	5833.88	0.5	PASS
11AC40SISO	Ant1	5755	34.72	5738.12	5772.84	0.5	PASS
		5795	35.68	5777.24	5812.92	0.5	PASS
11AC80SISO	Ant1	5775	75.52	5737.40	5812.92	0.5	PASS

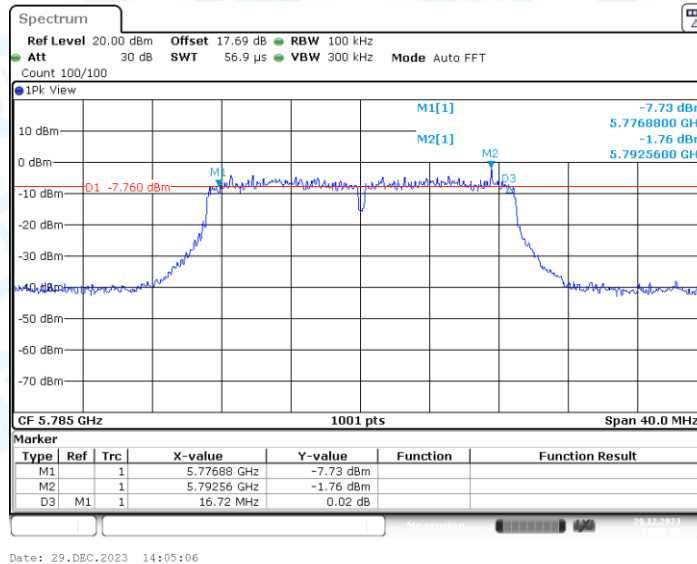
3.2. Test Graphs



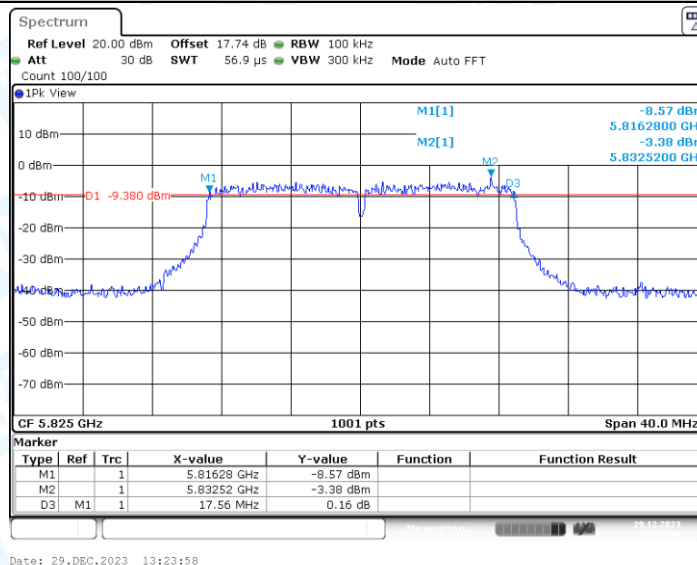
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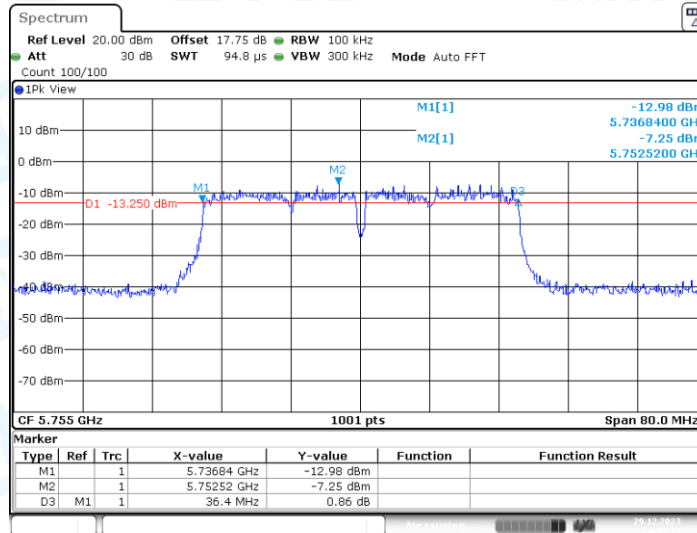
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11N20SISO_Ant1_5825

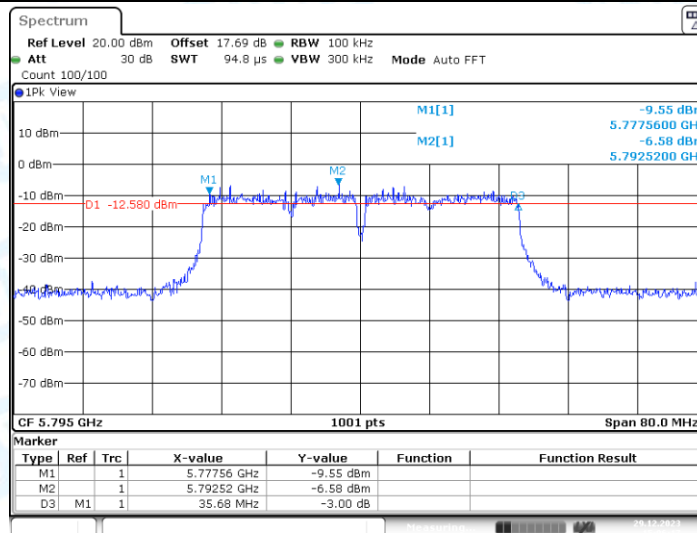


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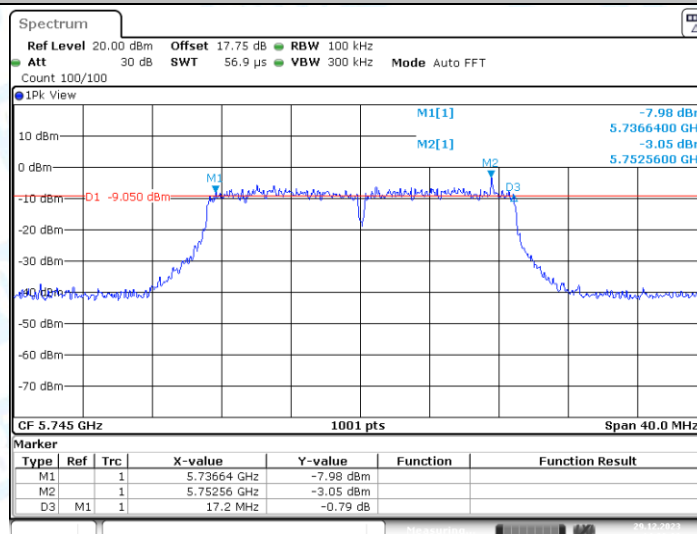
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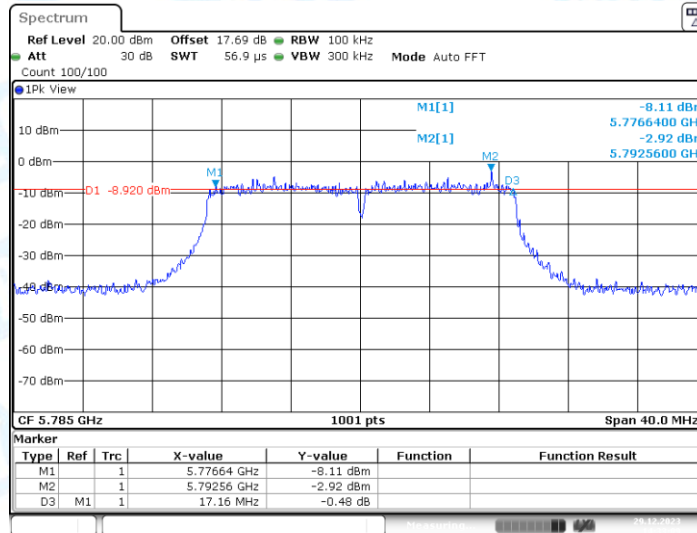
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11AC20SISO_Ant1_5745



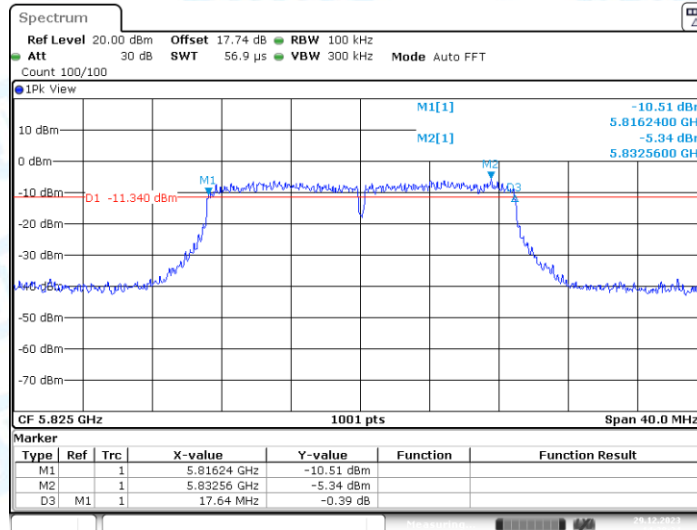
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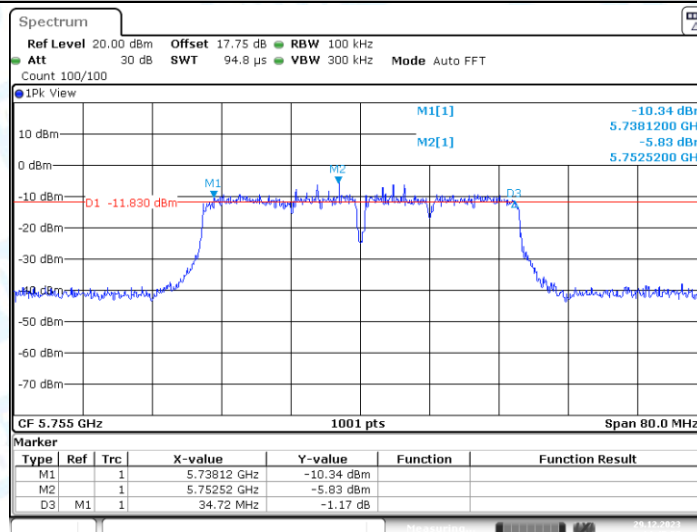
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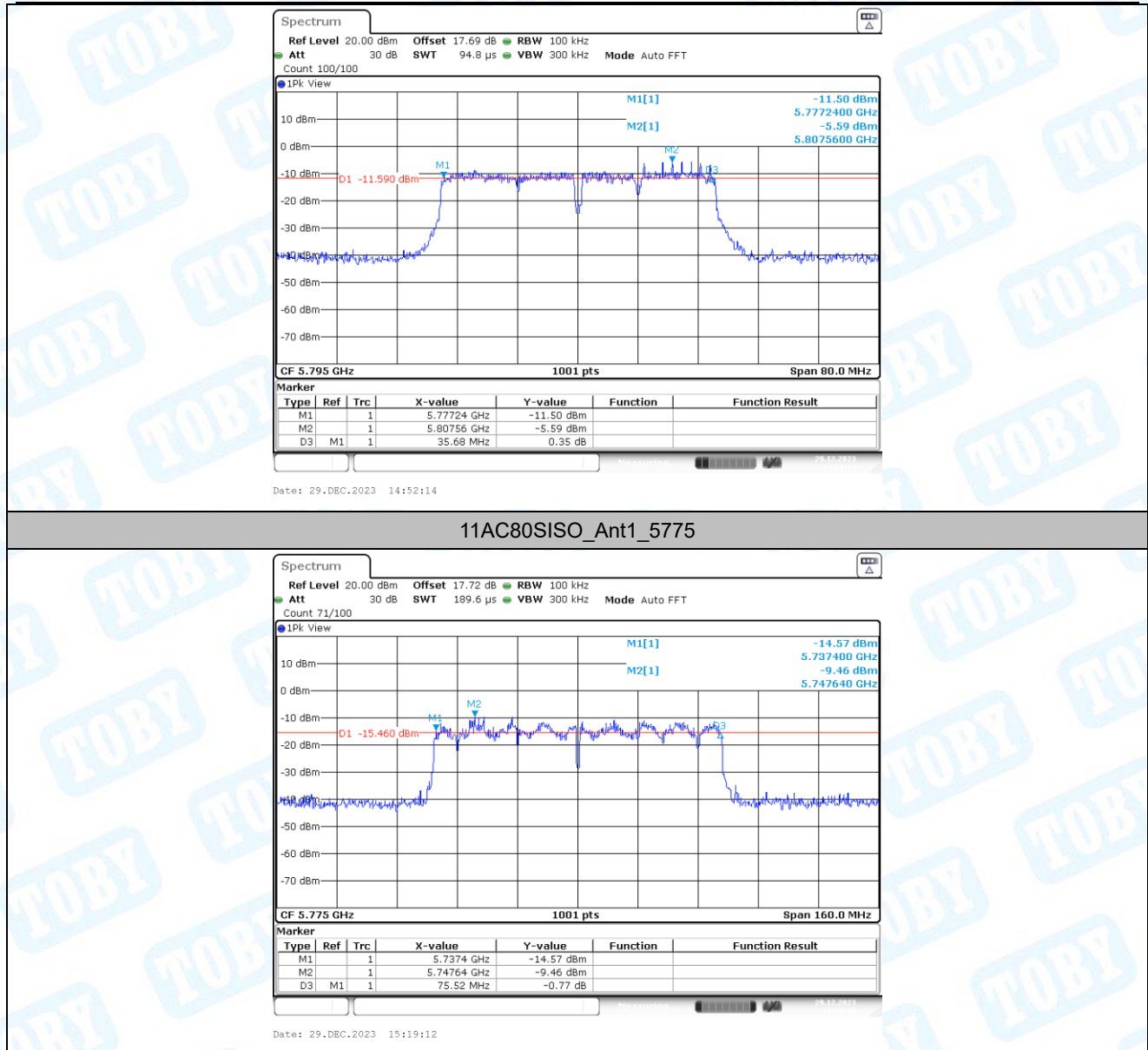
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11AC40SISO_Ant1_5755



Date: 29.DEC.2023 14:45:56

11AC40SISO_Ant1_5795



4. Maximum conducted output power

4.1. Test Result

TestMode	Antenna	Channel	Conducted power [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	7.70	≤23.98	PASS
		5200	7.36	≤23.98	PASS
		5240	7.45	≤23.98	PASS
		5745	7.31	≤30.00	PASS
		5785	7.54	≤30.00	PASS
		5825	7.33	≤30.00	PASS
11N20SISO	Ant1	5180	7.76	≤23.98	PASS
		5200	7.52	≤23.98	PASS
		5240	7.54	≤23.98	PASS
		5745	7.14	≤30.00	PASS
		5785	7.65	≤30.00	PASS
		5825	7.54	≤30.00	PASS
11N40SISO	Ant1	5190	7.54	≤23.98	PASS
		5230	7.59	≤23.98	PASS
		5755	7.10	≤30.00	PASS
		5795	7.10	≤30.00	PASS
11AC20SISO	Ant1	5180	7.56	≤23.98	PASS
		5200	7.57	≤23.98	PASS
		5240	7.45	≤23.98	PASS
		5745	6.47	≤30.00	PASS
		5785	6.67	≤30.00	PASS
		5825	6.73	≤30.00	PASS
11AC40SISO	Ant1	5190	7.51	≤23.98	PASS
		5230	7.59	≤23.98	PASS
		5755	6.75	≤30.00	PASS
		5795	6.58	≤30.00	PASS
11AC80SISO	Ant1	5210	7.66	≤23.98	PASS
		5775	7.50	≤30.00	PASS

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

5. Maximum power spectral density

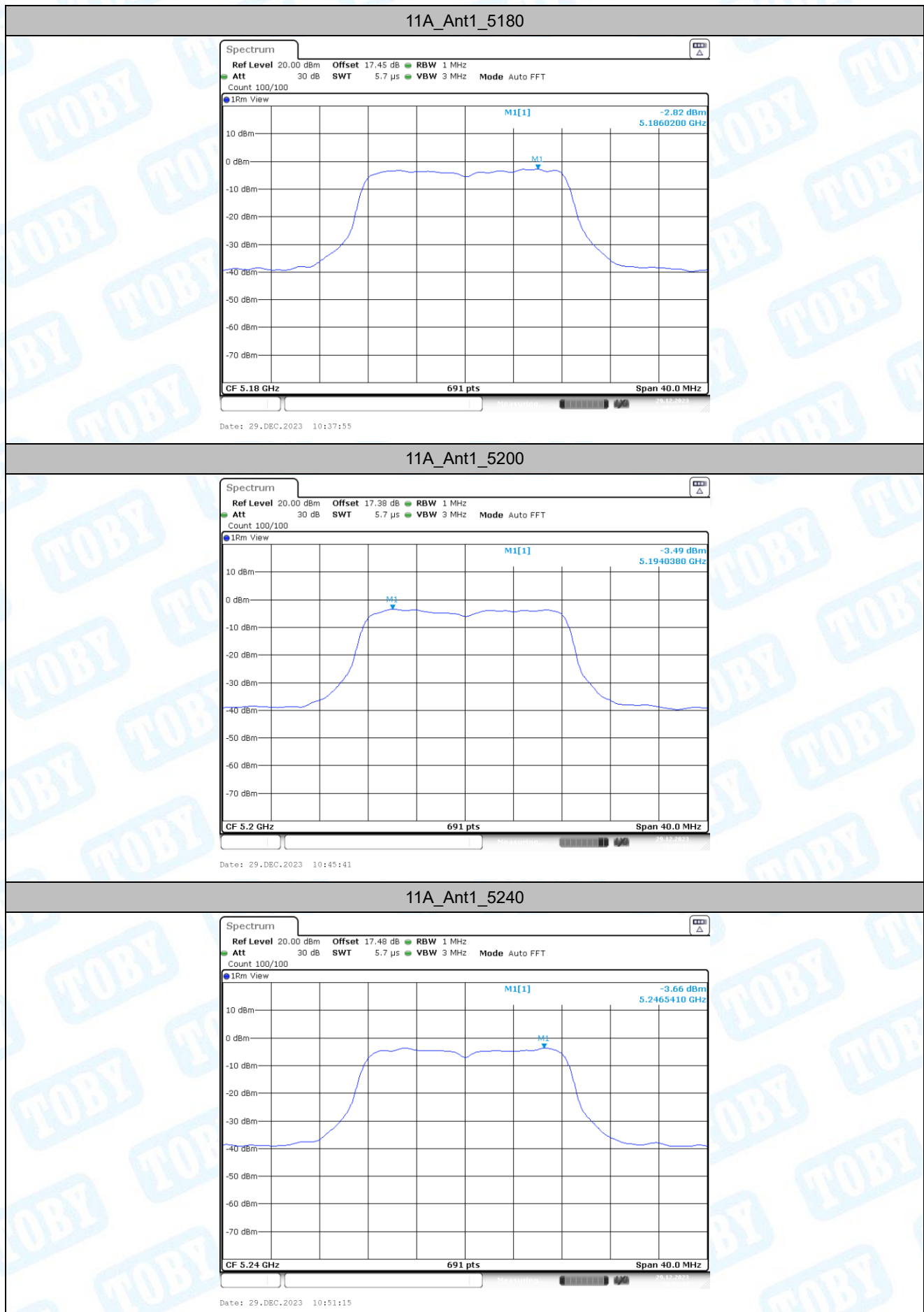
5.1. Test Result

TestMode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-2.62	≤11.00	PASS
		5200	-3.29	≤11.00	PASS
		5240	-3.44	≤11.00	PASS
		5745	-6.48	≤30.00	PASS
		5785	-6.15	≤30.00	PASS
		5825	-5.97	≤30.00	PASS
11N20SISO	Ant1	5180	-3.38	≤11.00	PASS
		5200	-3.32	≤11.00	PASS
		5240	-3.57	≤11.00	PASS
		5745	-6.52	≤30.00	PASS
		5785	-5.94	≤30.00	PASS
		5825	-6.05	≤30.00	PASS
11N40SISO	Ant1	5190	-5.82	≤11.00	PASS
		5230	-5.28	≤11.00	PASS
		5755	-9.08	≤30.00	PASS
		5795	-8.30	≤30.00	PASS
11AC20SISO	Ant1	5180	-2.94	≤11.00	PASS
		5200	-3.58	≤11.00	PASS
		5240	-2.80	≤11.00	PASS
		5745	-6.81	≤30.00	PASS
		5785	-7.20	≤30.00	PASS
		5825	-7.06	≤30.00	PASS
11AC40SISO	Ant1	5190	-5.81	≤11.00	PASS
		5230	-6.36	≤11.00	PASS
		5755	-9.34	≤30.00	PASS
		5795	-9.47	≤30.00	PASS
11AC80SISO	Ant1	5210	-7.51	≤11.00	PASS
		5775	-10.41	≤30.00	PASS

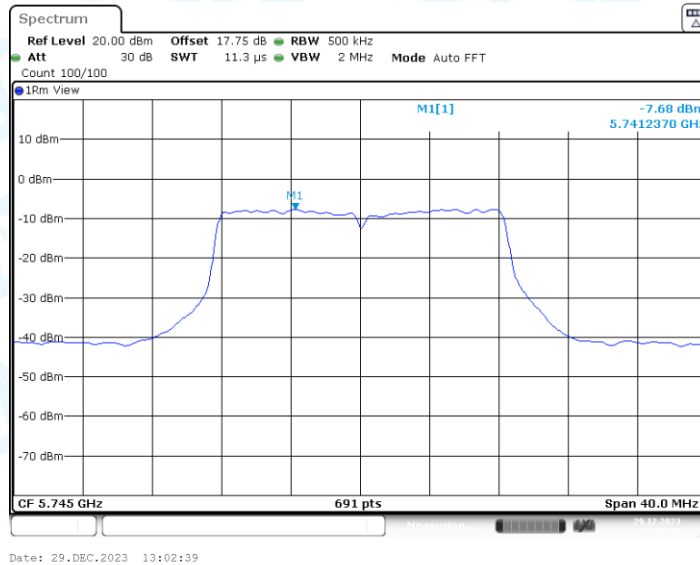
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

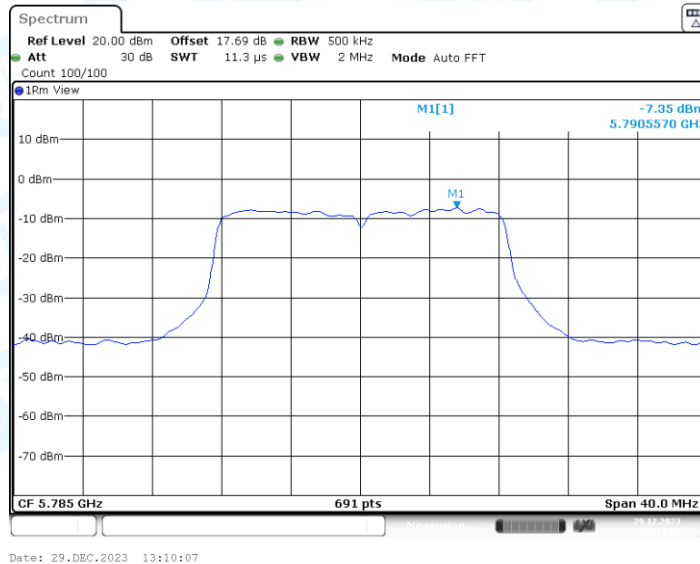
5.2. Test Graphs



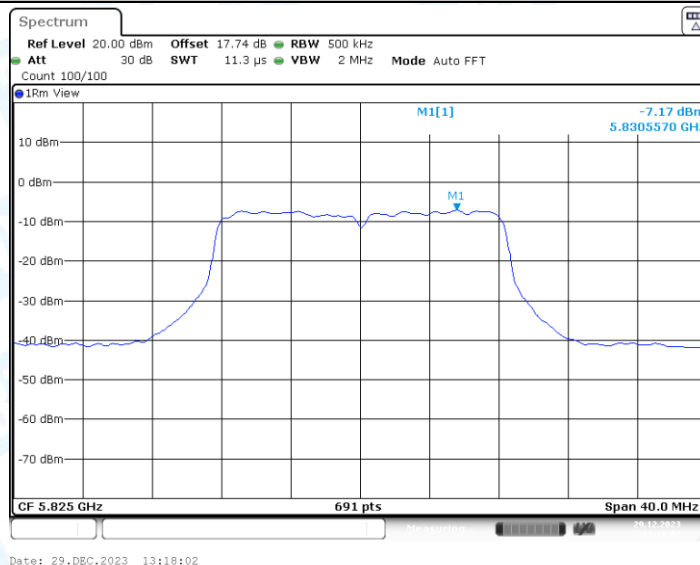
11A_Ant1_5745



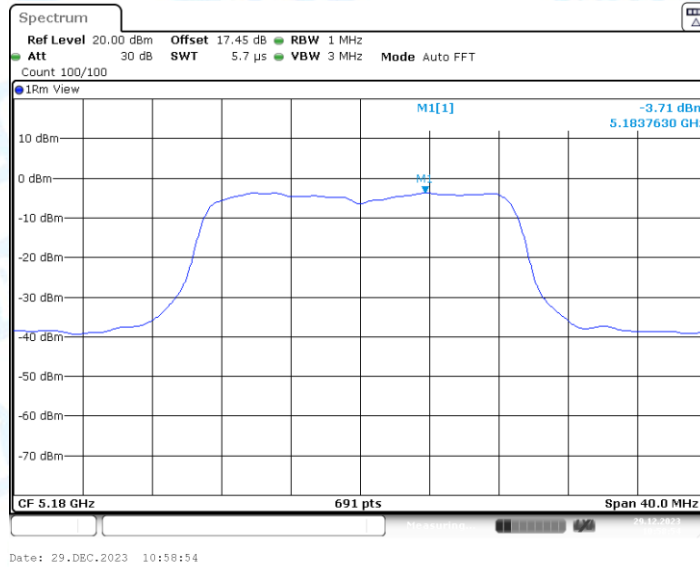
11A_Ant1_5785



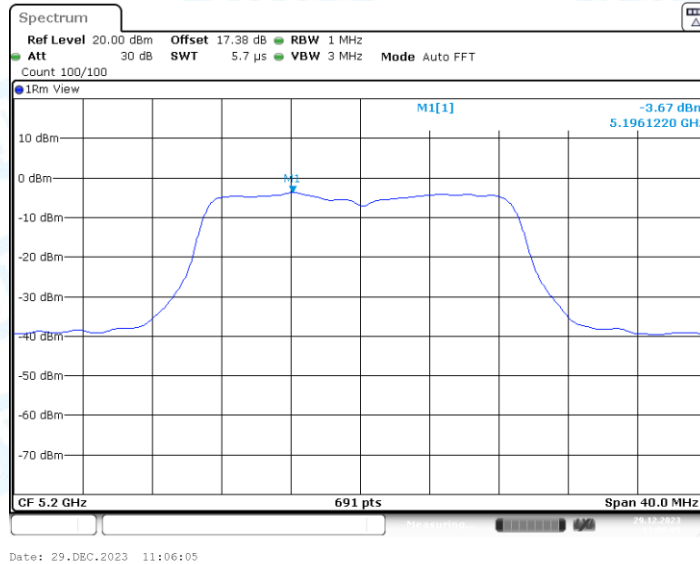
11A_Ant1_5825



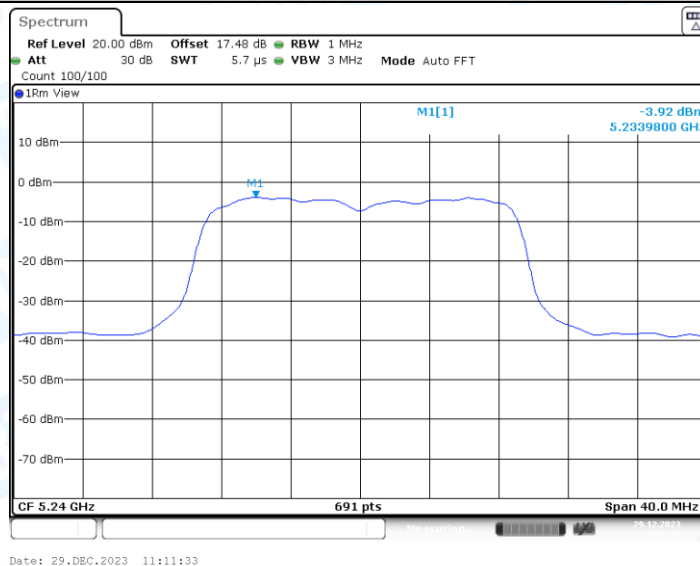
11N20SISO_Ant1_5180



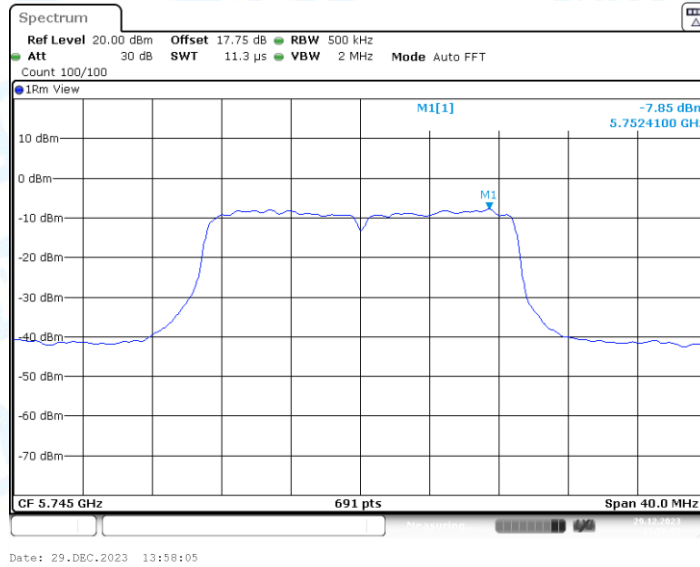
11N20SISO_Ant1_5200



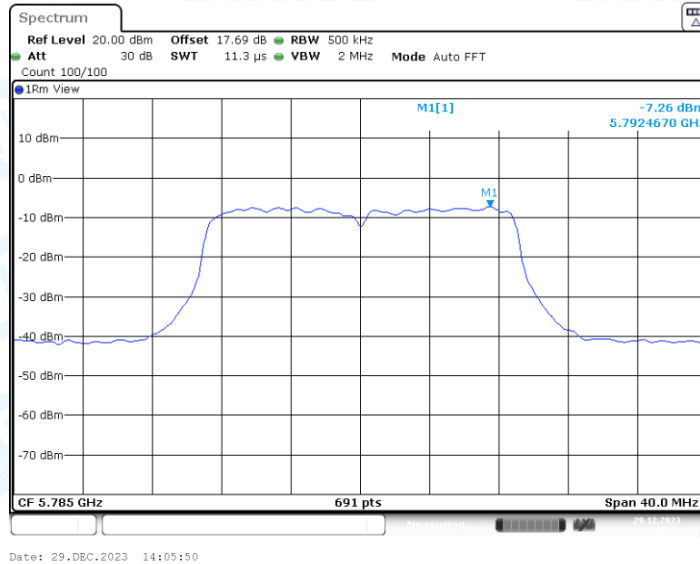
11N20SISO_Ant1_5240



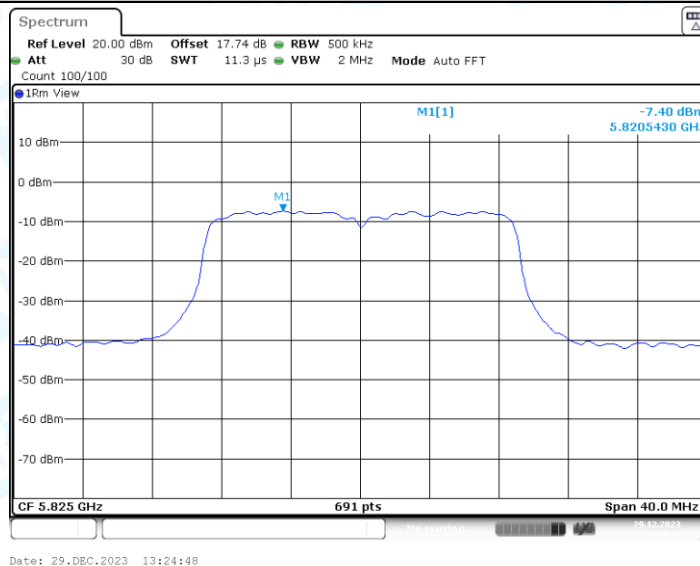
11N20SISO_Ant1_5745



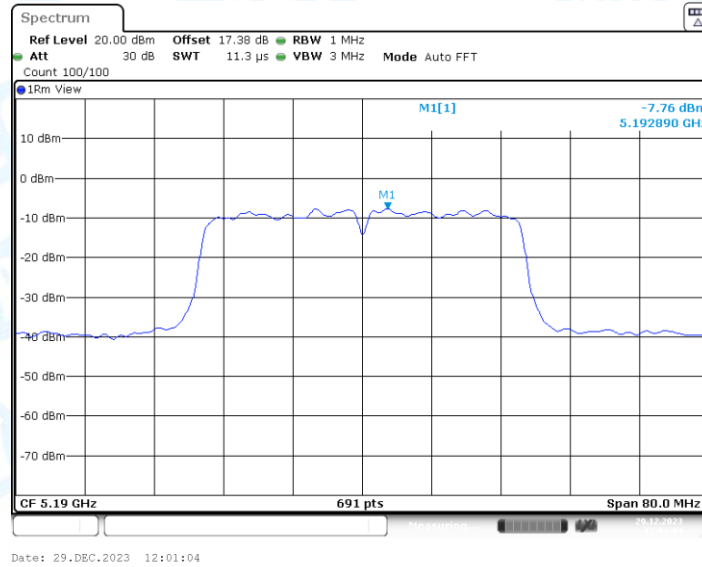
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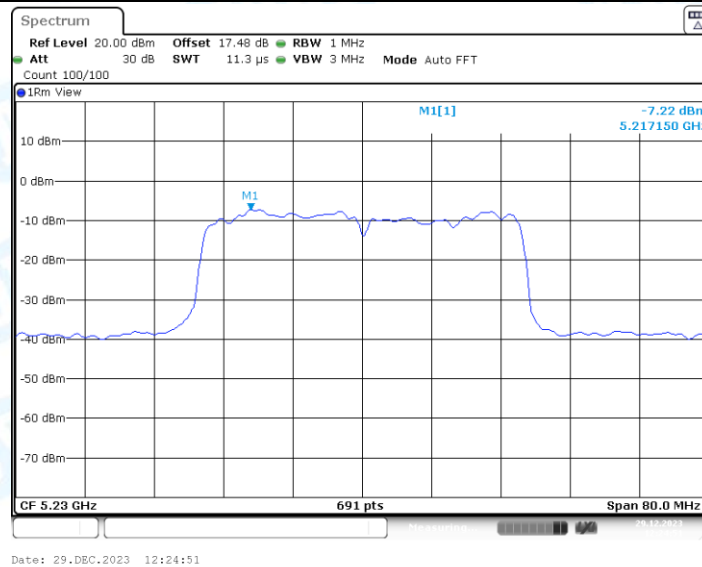
11N20SISO_Ant1_5825



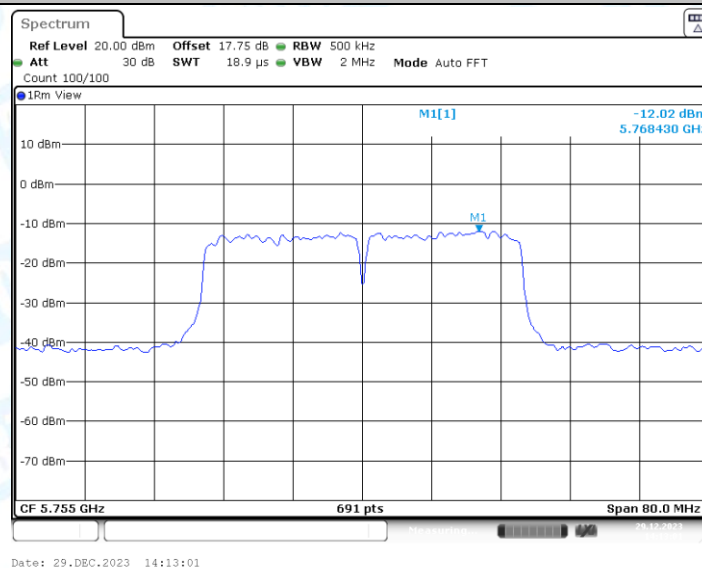
11N40SISO_Ant1_5190



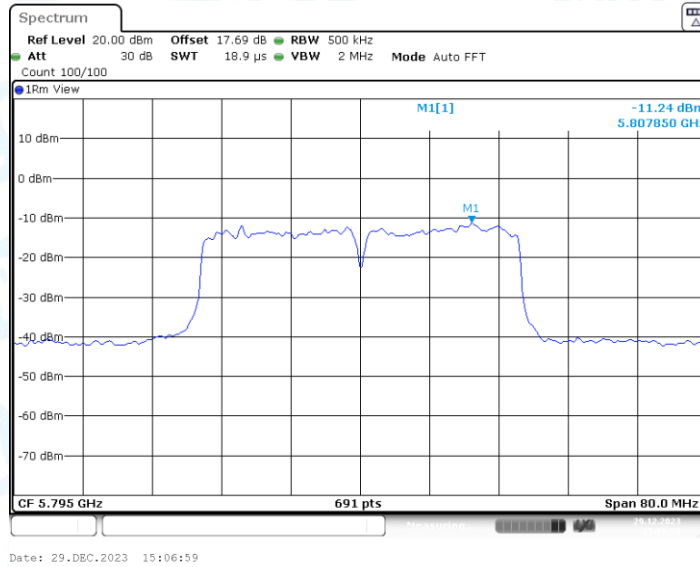
11N40SISO_Ant1_5230



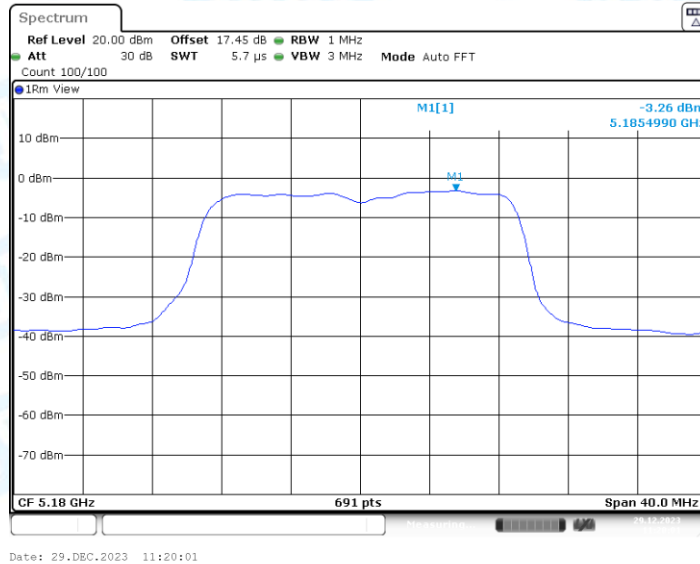
11N40SISO_Ant1_5755



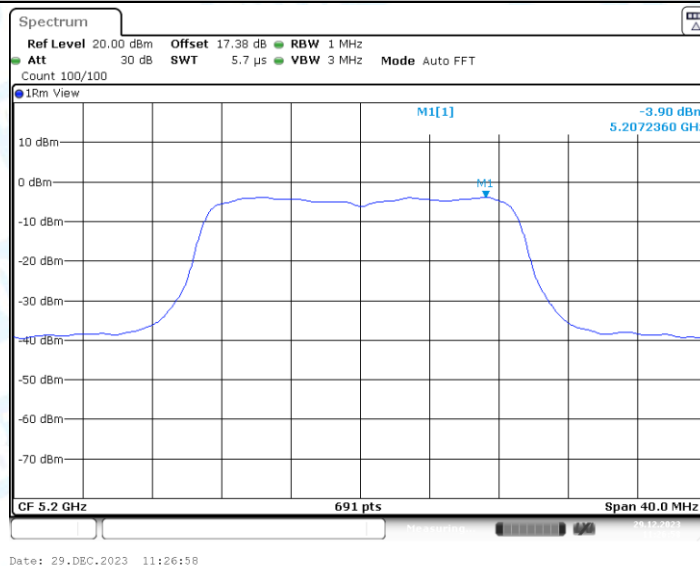
11N40SISO_Ant1_5795



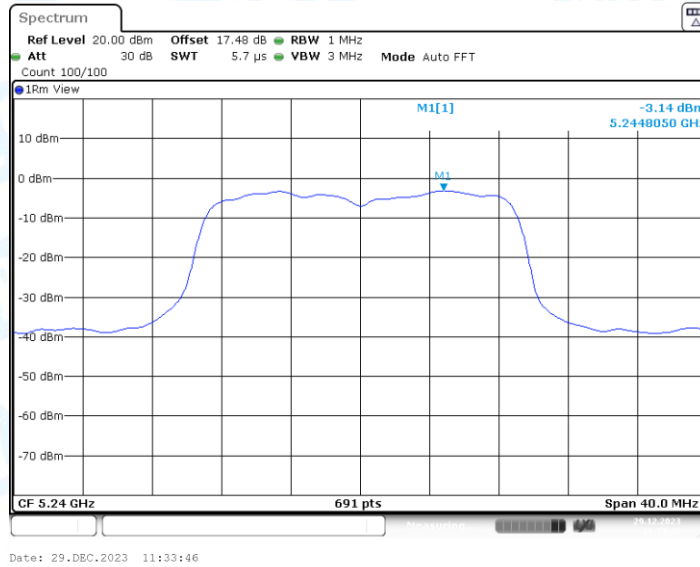
11AC20SISO_Ant1_5180



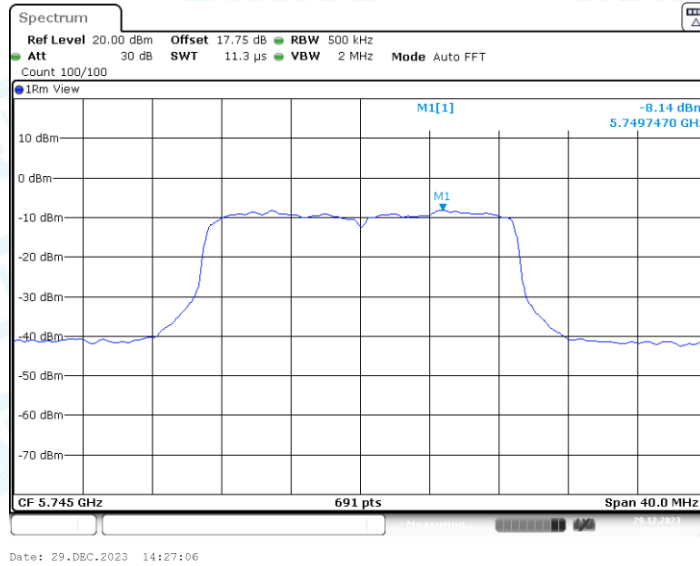
11AC20SISO_Ant1_5200



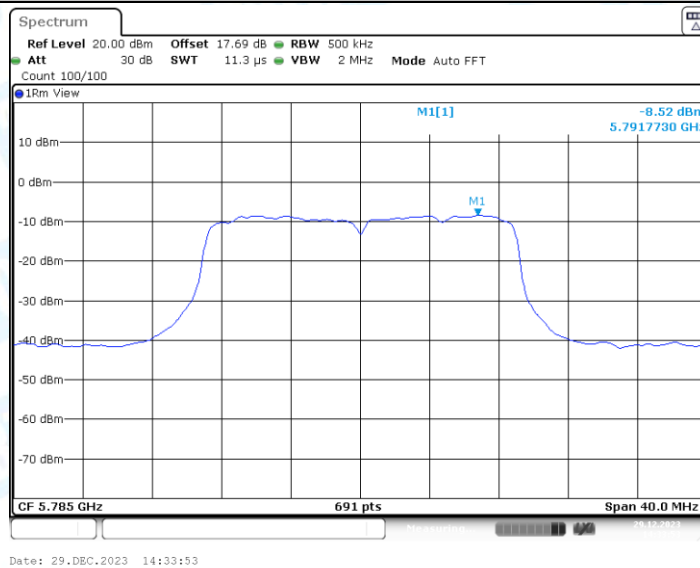
11AC20SISO_Ant1_5240



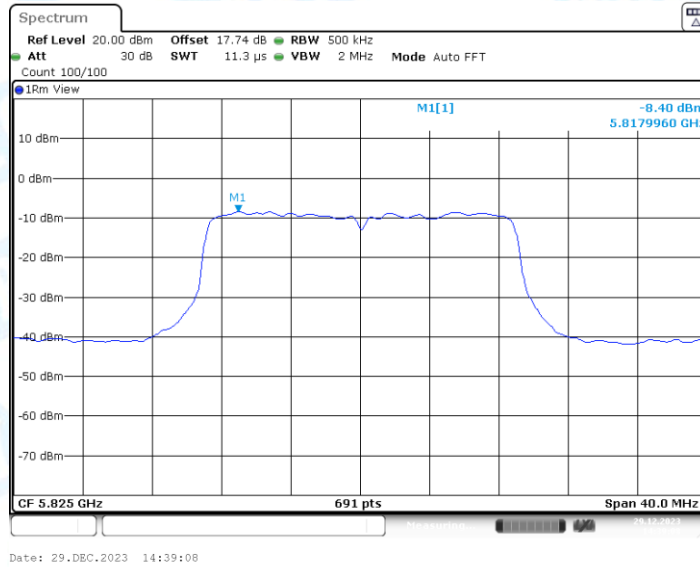
11AC20SISO_Ant1_5745



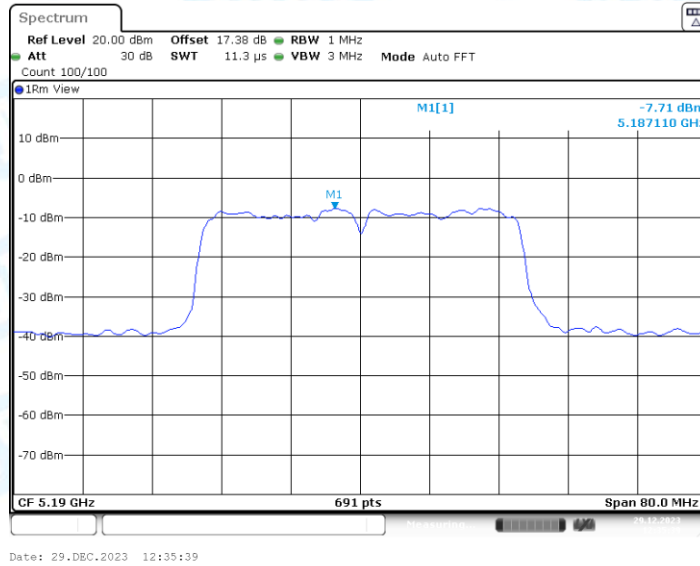
11AC20SISO_Ant1_5785



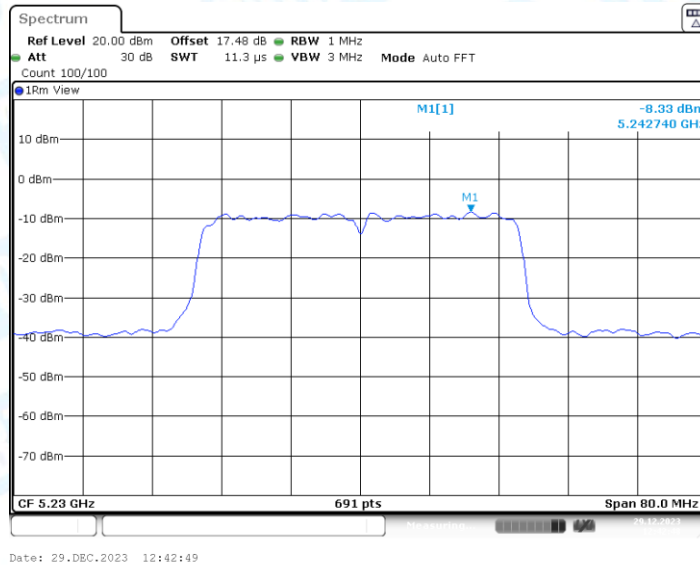
11AC20SISO_Ant1_5825



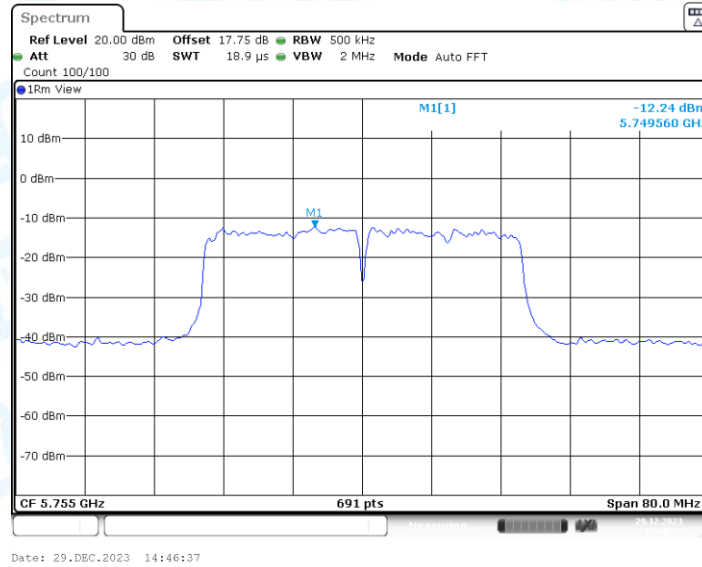
11AC40SISO_Ant1_5190



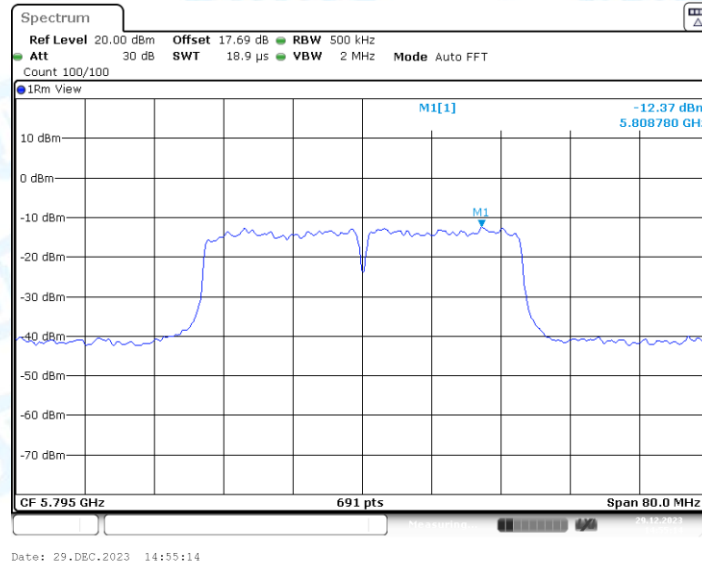
11AC40SISO_Ant1_5230



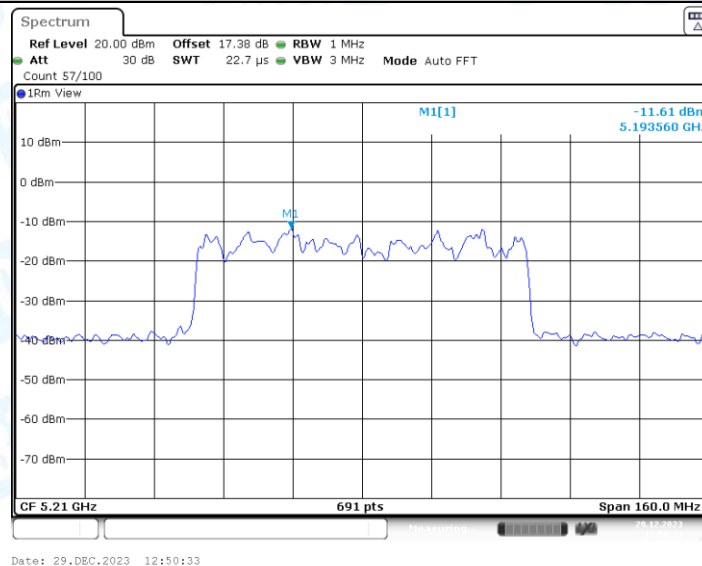
11AC40SISO_Ant1_5755



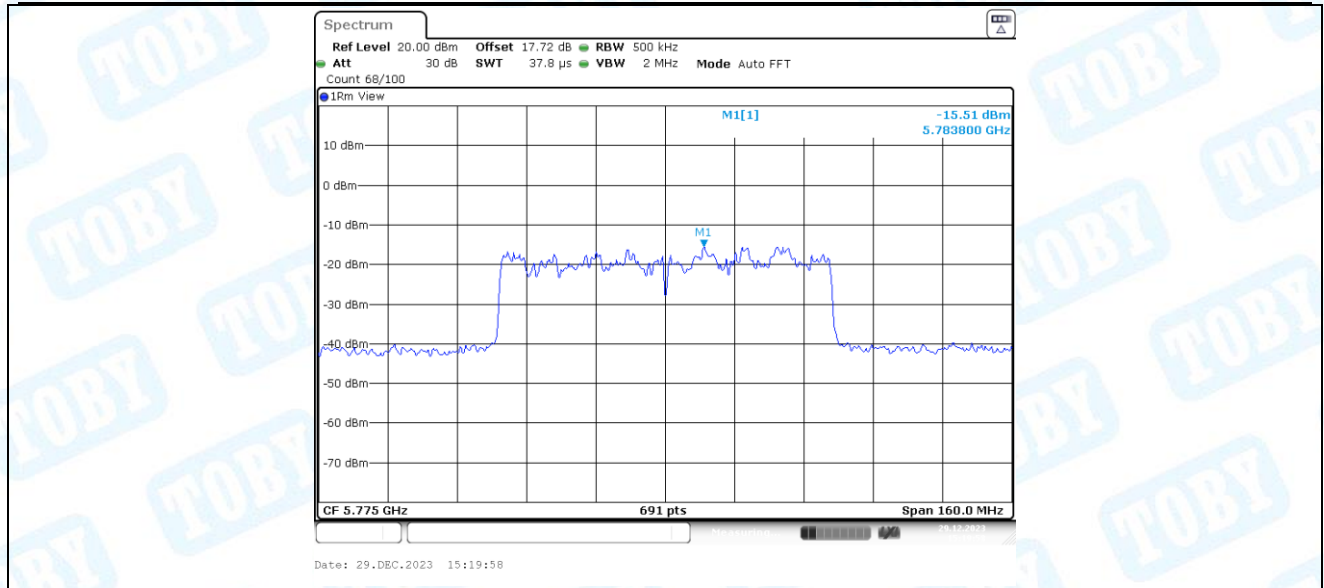
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



6. Band edge measurements

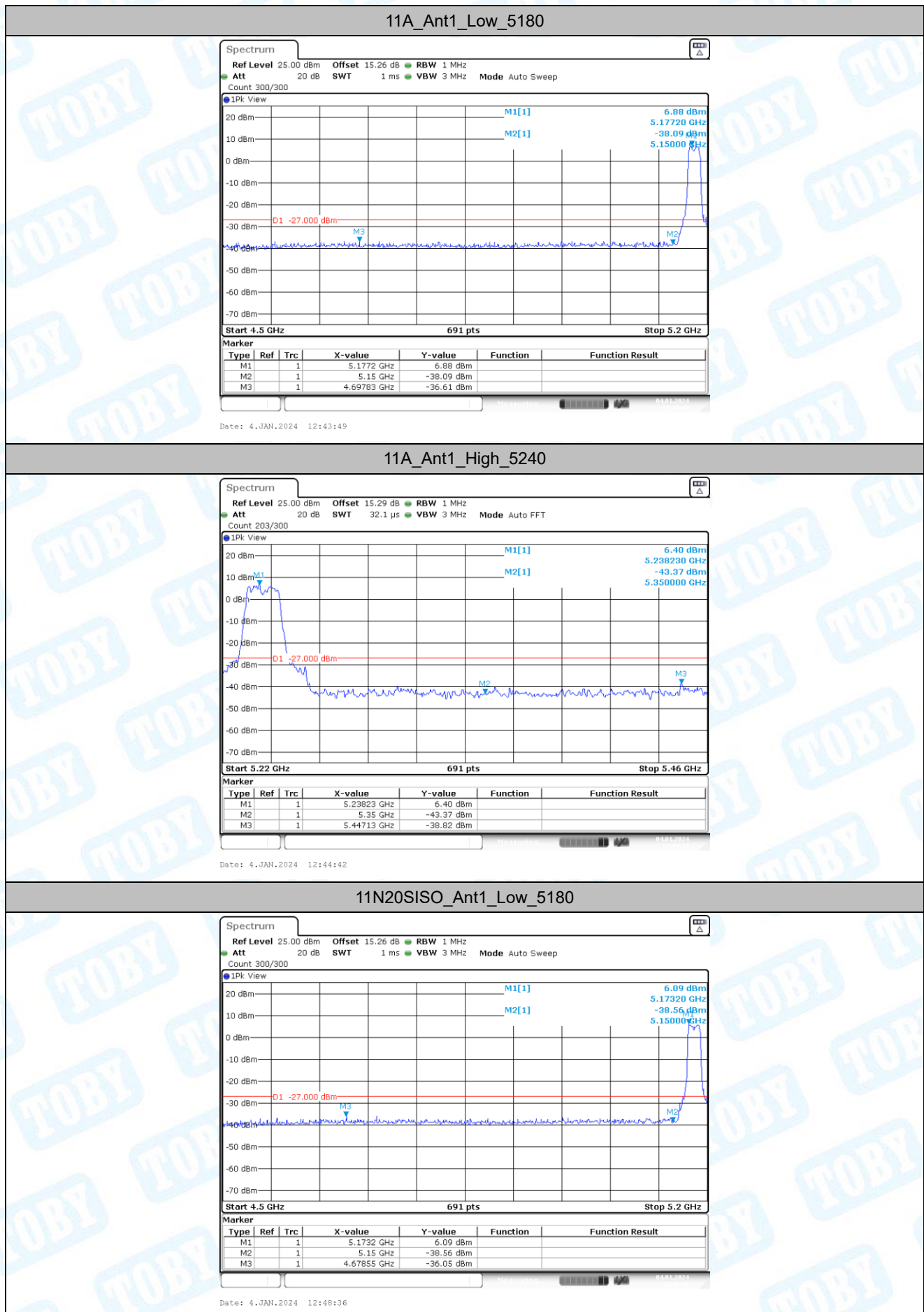
6.1. Test Result

TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.61	≤-27	PASS
		High	5240	-38.82	≤-27	PASS
11N20SISO	Ant1	Low	5180	-36.05	≤-27	PASS
		High	5240	-40.09	≤-27	PASS
11N40SISO	Ant1	Low	5190	-35.14	≤-27	PASS
		High	5230	-39.52	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-36.51	≤-27	PASS
		High	5240	-40.65	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-35.86	≤-27	PASS
		High	5230	-40.5	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-33.64	≤-27	PASS
		High	5210	-39.48	≤-27	PASS

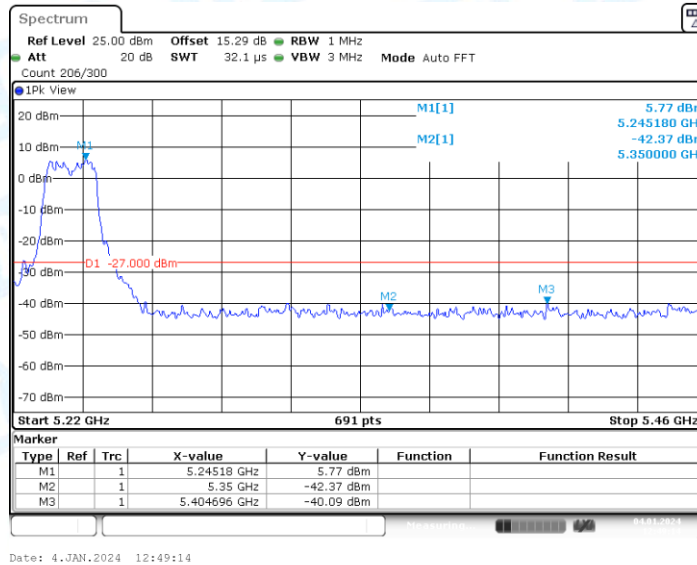
TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-40.33	≤-1.84	PASS
				5700~5720	-39.64	≤15.60	PASS
				5720~5725	-37.77	≤23.58	PASS
				5760~5650	-40.98	≤-27	PASS
		High	5825	5850~5855	-39.45	≤20.70	PASS
				5855~5875	-39.56	≤13.77	PASS
				5875~5925	-38.58	≤8.57	PASS
				5925~5935	-38.98	≤-27	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-40.3	≤-18.00	PASS
				5700~5720	-39.52	≤15.18	PASS
				5720~5725	-32.5	≤22.06	PASS
				5760~5650	-40.22	≤-27	PASS
		High	5825	5850~5855	-39.94	≤22.49	PASS
				5855~5875	-39.28	≤12.51	PASS
				5875~5925	-39.35	≤-15.61	PASS
				5925~5935	-39.93	≤-27	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-39.76	≤-19.26	PASS
				5700~5720	-35.7	≤15.31	PASS
				5720~5725	-35.57	≤23.48	PASS
				5780~5650	-41.33	≤-27	PASS
		High	5795	5850~5855	-39.65	≤22.93	PASS
				5855~5875	-37.52	≤13.92	PASS
				5875~5925	-39.23	≤8.20	PASS
				5925~5935	-40.65	≤-27	PASS
11AC20SISO	Ant1	Low	5745	5650~5700	-39.21	≤-1.59	PASS

				5700~5720	-38.59	≤14.85	PASS
				5720~5725	-35.62	≤25.86	PASS
				5760~5650	-39.82	≤-27	PASS
		High	5825	5850~5855	-39.57	≤16.25	PASS
				5855~5875	-39.85	≤10.21	PASS
				5875~5925	-38.77	≤-19.66	PASS
				5925~5935	-40.35	≤-27	PASS
11AC40SISO	Ant1	Low	5755	5650~5700	-39.28	≤3.03	PASS
				5700~5720	-36.11	≤14.49	PASS
				5720~5725	-37.76	≤22.59	PASS
				5780~5650	-39.93	≤-27	PASS
		High	5795	5850~5855	-39.9	≤24.03	PASS
				5855~5875	-37.83	≤14.19	PASS
				5875~5925	-38.8	≤-0.30	PASS
11AC80SISO	Ant1	Low	5775	5925~5935	-40.78	≤-27	PASS
				5650~5700	-37.85	≤-3.94	PASS
				5700~5720	-36	≤15.42	PASS
				5720~5725	-36.65	≤15.67	PASS
		High	5775	5800~5650	-41.38	≤-27	PASS
				5850~5855	-38.87	≤15.62	PASS
				5855~5875	-38.21	≤10.93	PASS
				5875~5925	-39.16	≤2.52	PASS
				5925~5935	-40.47	≤-27	PASS

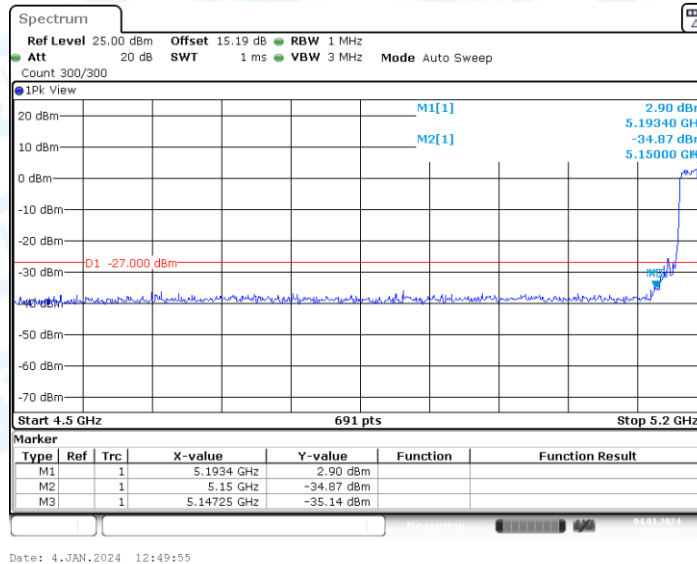
6.2. Test Graphs



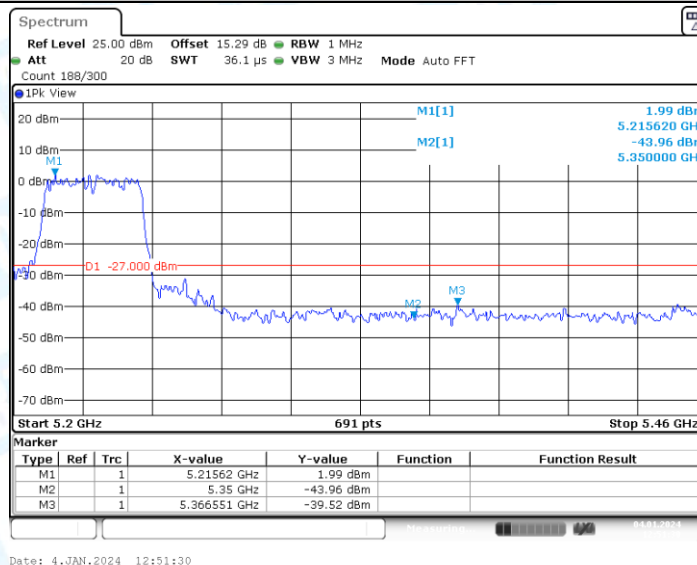
11N20SISO_Ant1_High_5240



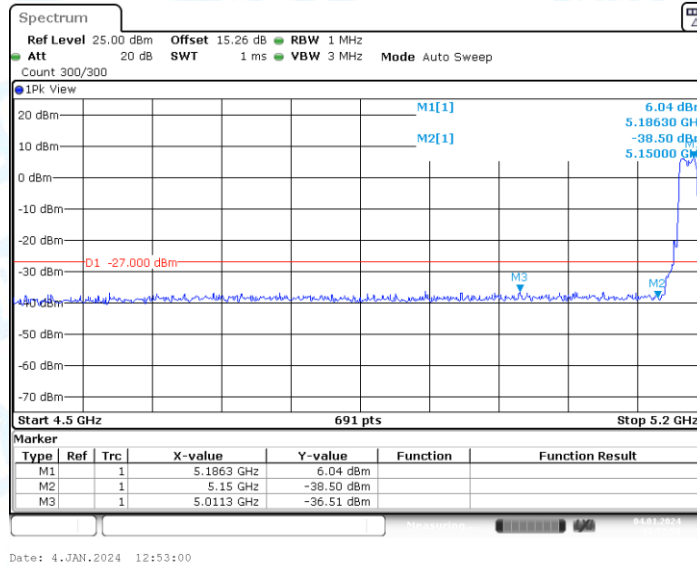
11N40SISO_Ant1_Low_5190



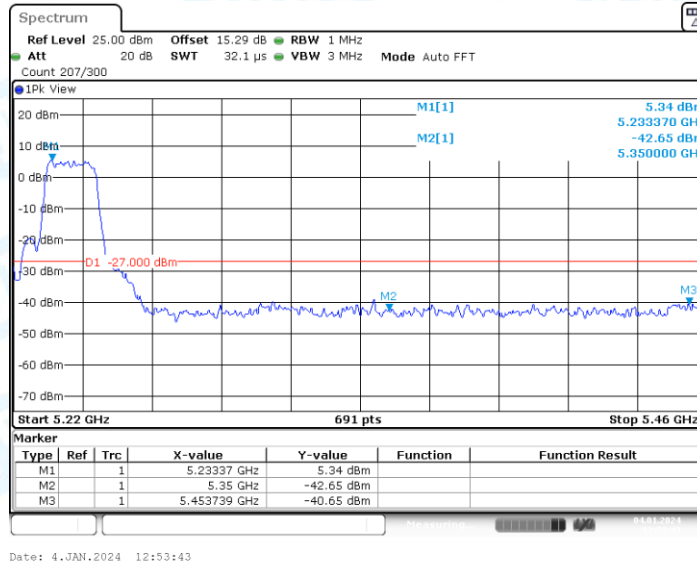
11N40SISO_Ant1_High_5230



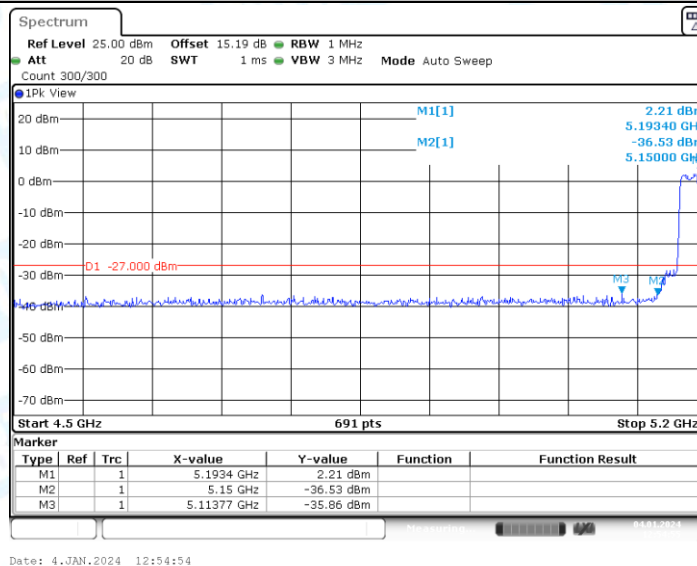
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230