

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

General Description of EUT	
Product Name:	AC Wireless Network Card
Test Model:	CF-813B
Sample ID:	20211223-01_03-02#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TB-FCC186041	

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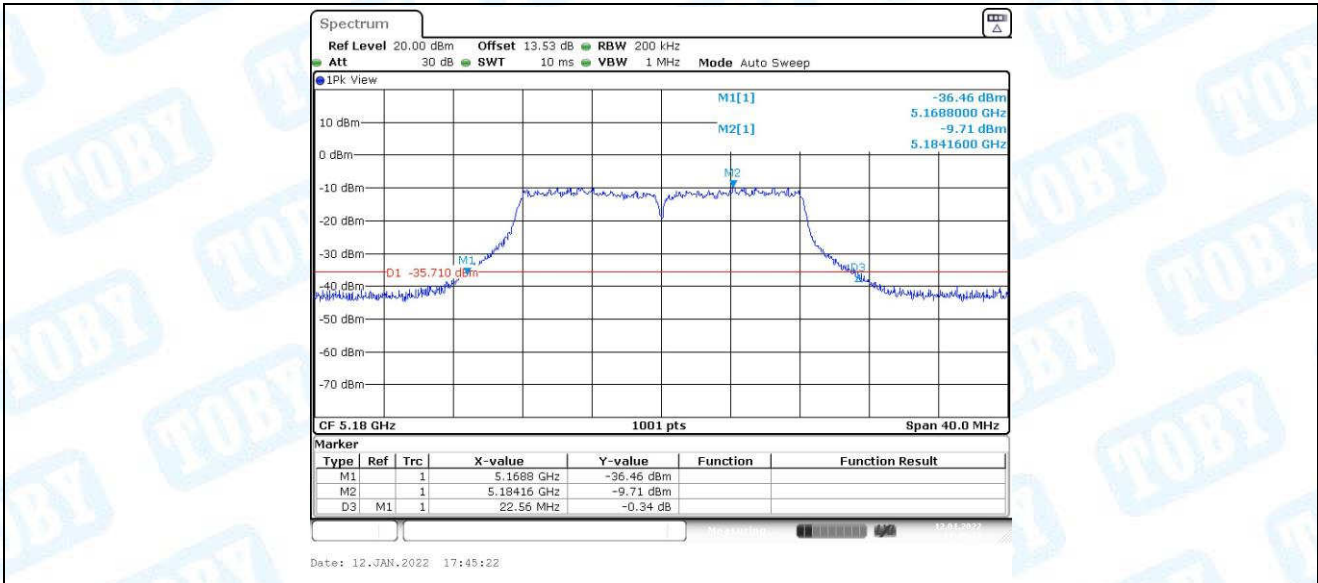
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1. Emission Bandwidth

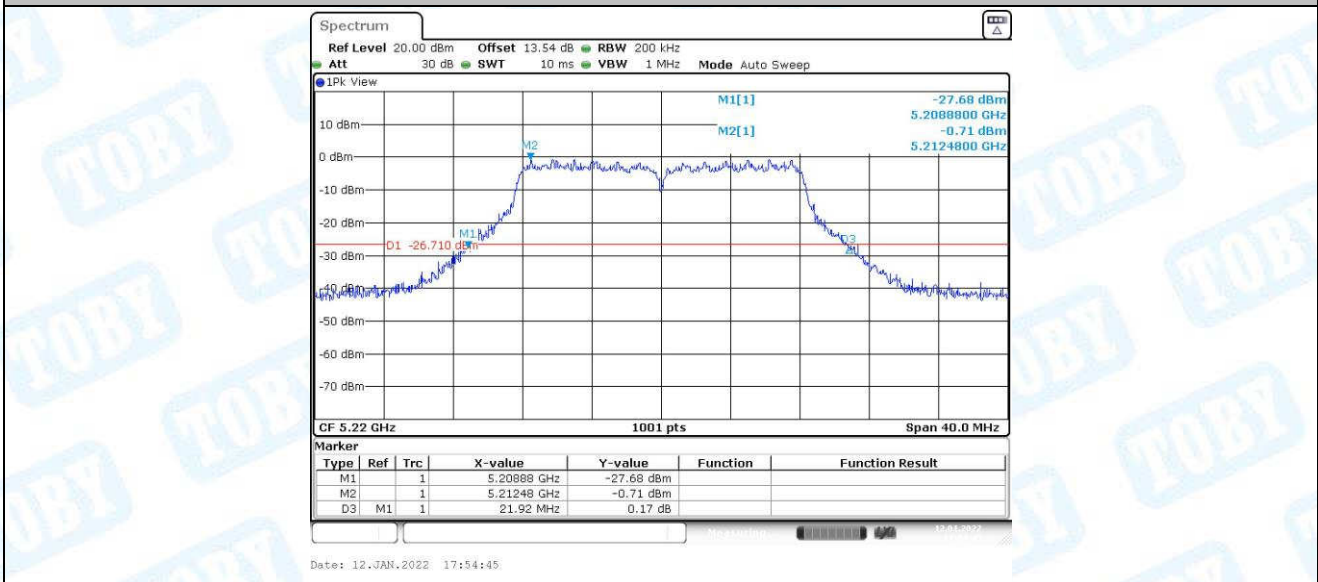
1.1. Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.56	5168.80	5191.36	---	---
		5220	21.92	5208.88	5230.80	---	---
		5240	22.52	5228.68	5251.20	---	---
		5745	22.00	5733.92	5755.92	---	---
		5785	21.88	5773.88	5795.76	---	---
		5825	22.36	5813.68	5836.04	---	---
11N20SISO	Ant1	5180	22.44	5168.80	5191.24	---	---
		5220	22.80	5208.40	5231.20	---	---
		5240	22.28	5228.92	5251.20	---	---
		5745	22.92	5733.56	5756.48	---	---
		5785	22.68	5773.52	5796.20	---	---
		5825	22.68	5813.60	5836.28	---	---
11N40SISO	Ant1	5190	44.40	5167.68	5212.08	---	---
		5230	46.56	5207.68	5254.24	---	---
		5755	44.88	5732.52	5777.40	---	---
		5795	44.72	5772.52	5817.24	---	---
11AC20SISO	Ant1	5180	22.36	5168.84	5191.20	---	---
		5220	22.48	5208.80	5231.28	---	---
		5240	22.44	5228.92	5251.36	---	---
		5745	22.76	5733.68	5756.44	---	---
		5785	22.72	5773.68	5796.40	---	---
		5825	22.60	5813.76	5836.36	---	---
11AC40SISO	Ant1	5190	46.16	5167.04	5213.20	---	---
		5230	48.56	5206.80	5255.36	---	---
		5755	46.24	5731.88	5778.12	---	---
		5795	46.00	5771.96	5817.96	---	---
11AC80SISO	Ant1	5210	83.84	5168.24	5252.08	---	---
		5775	83.84	5733.24	5817.08	---	---

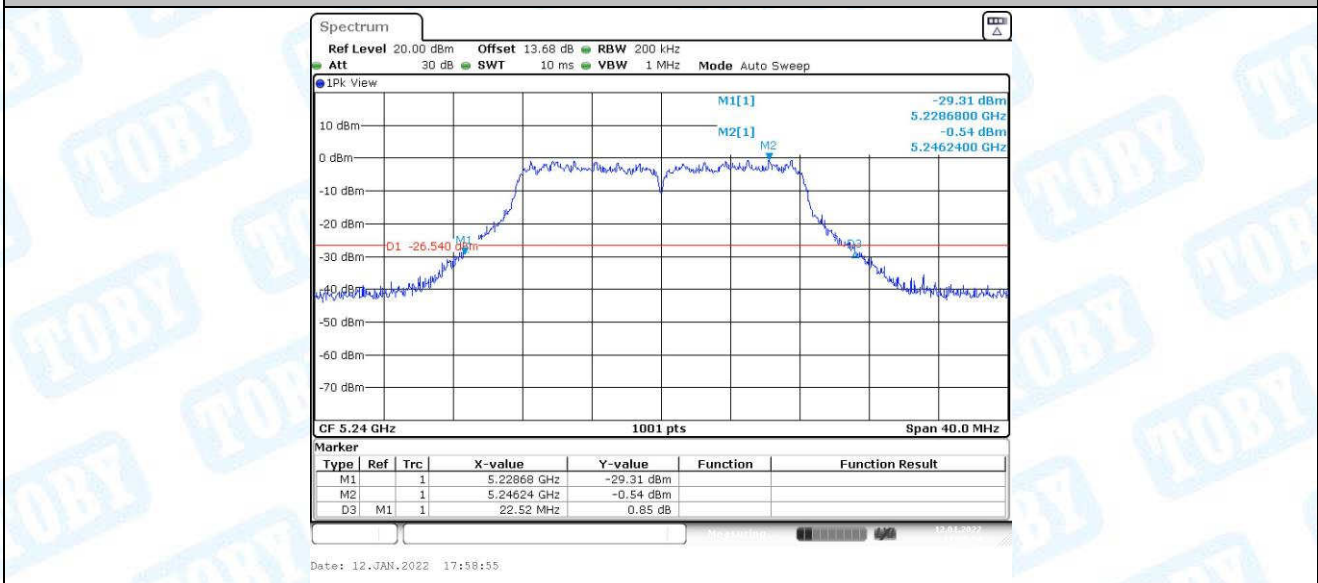
2.1. Test Graphs



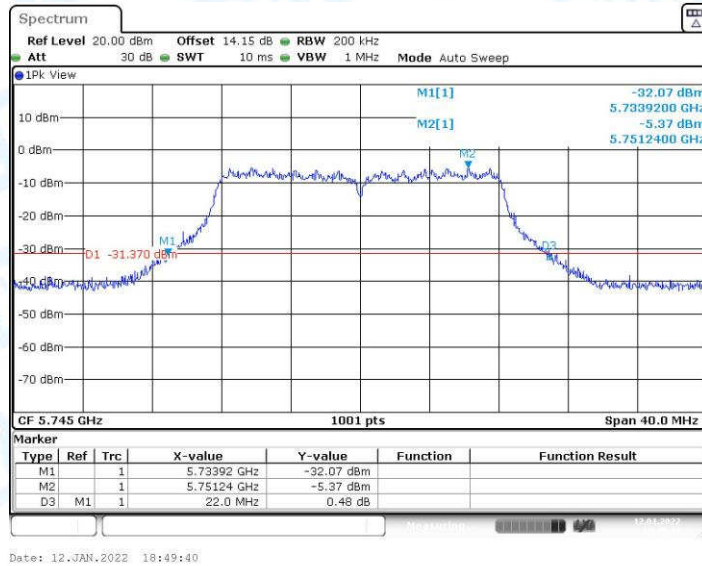
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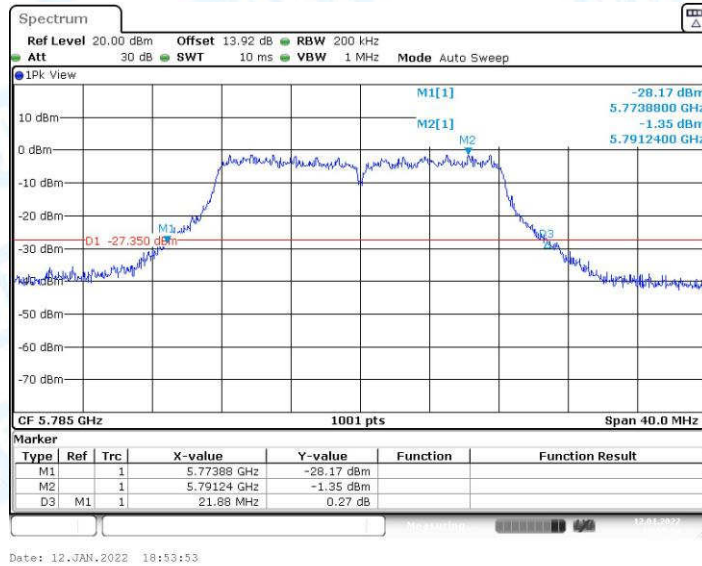
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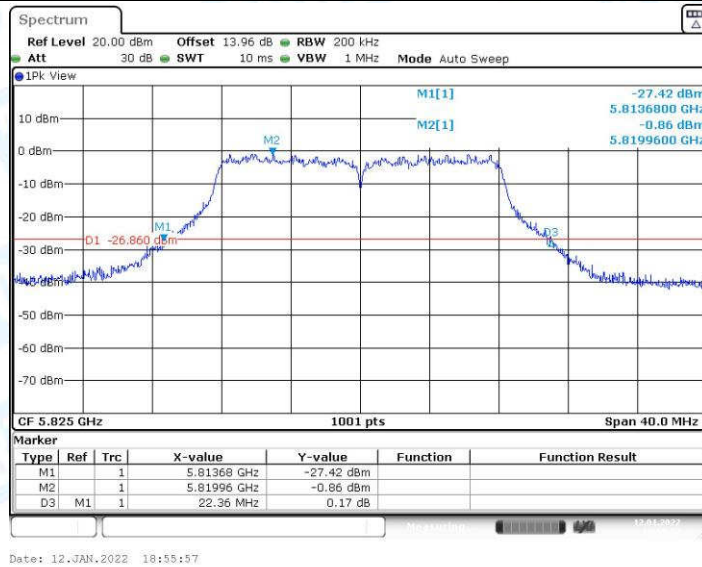
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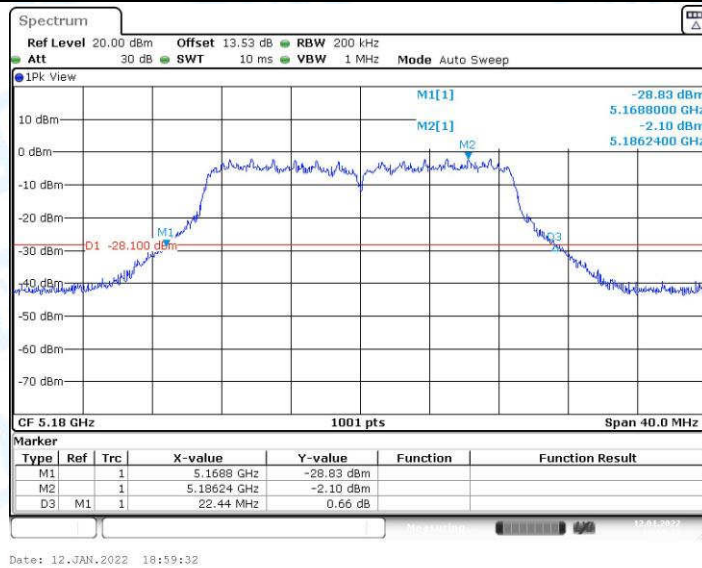
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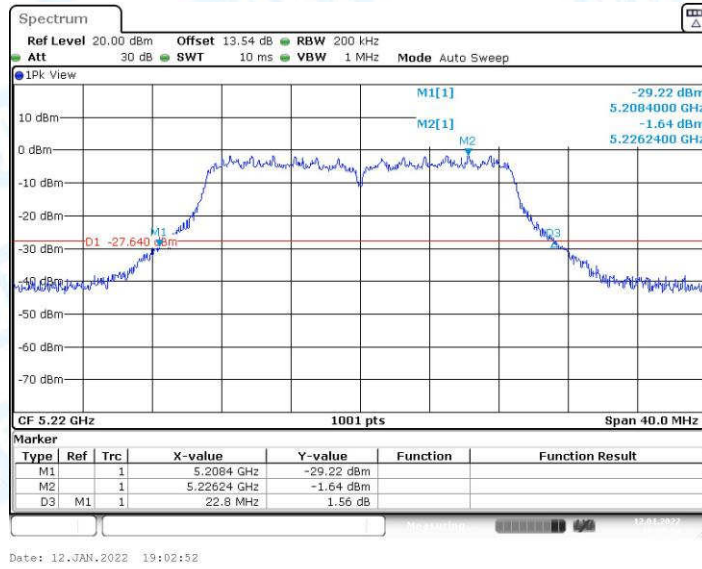
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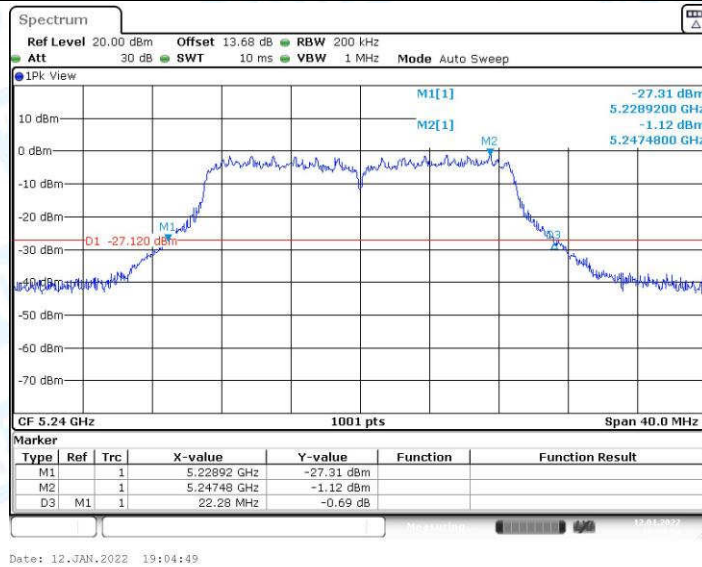
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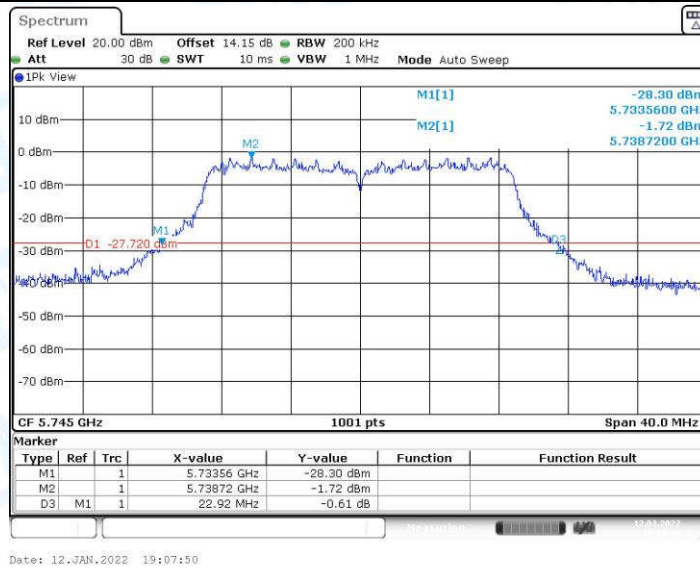
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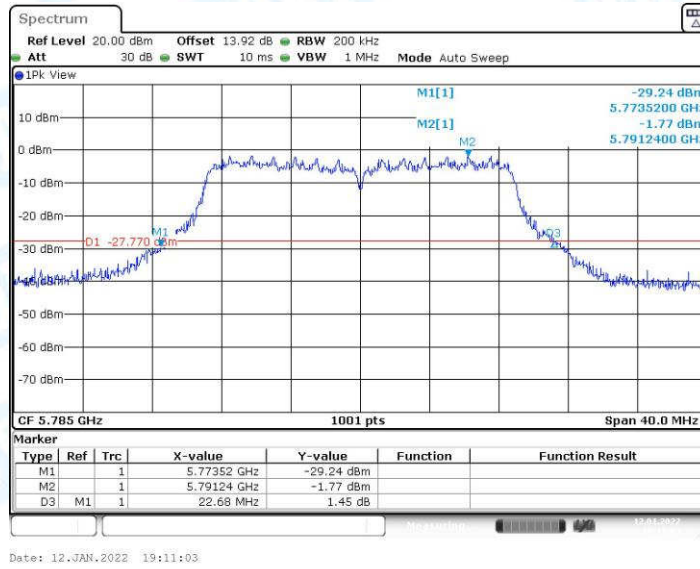
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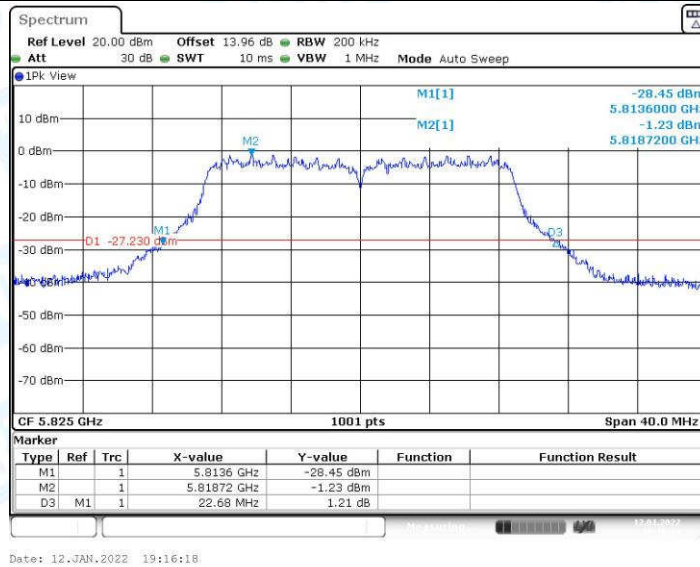
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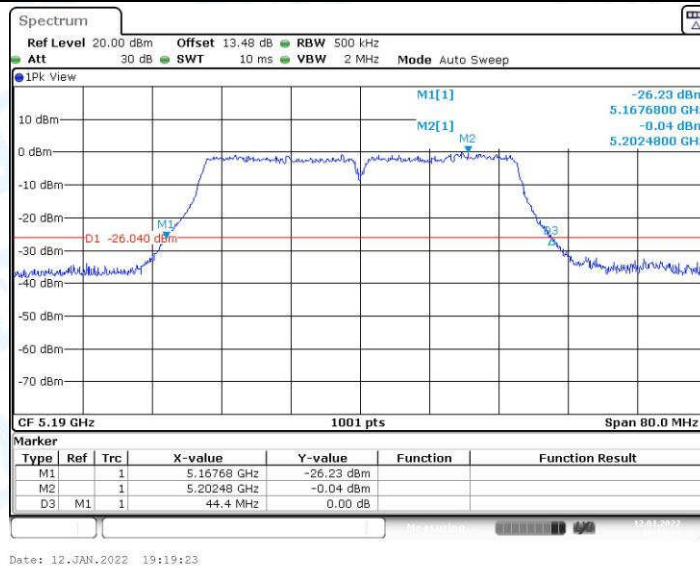
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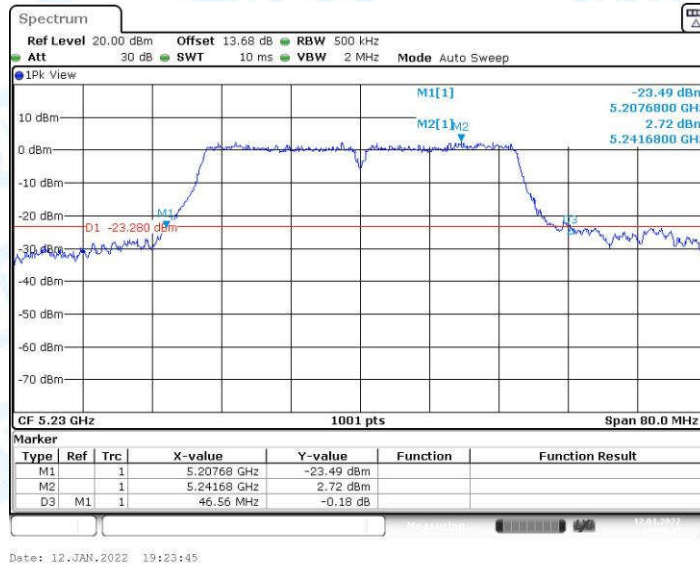
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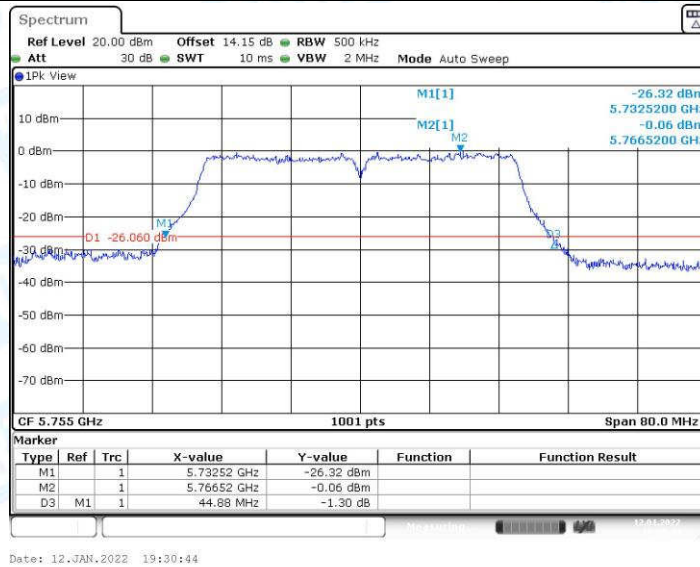
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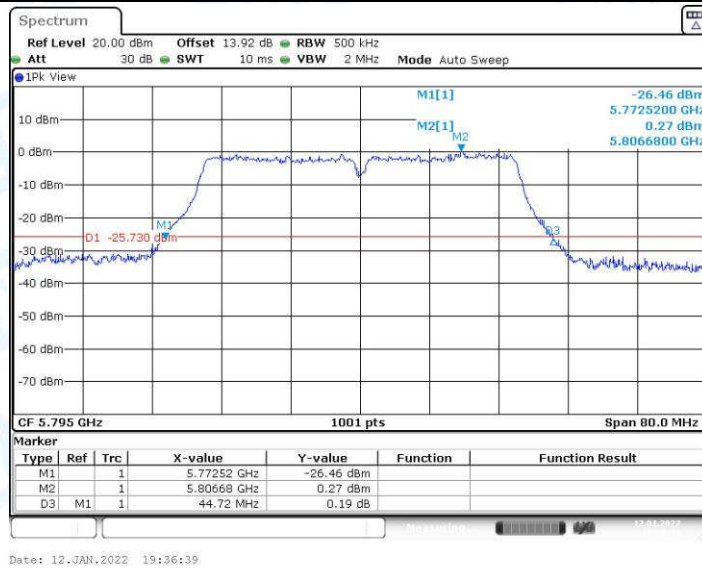
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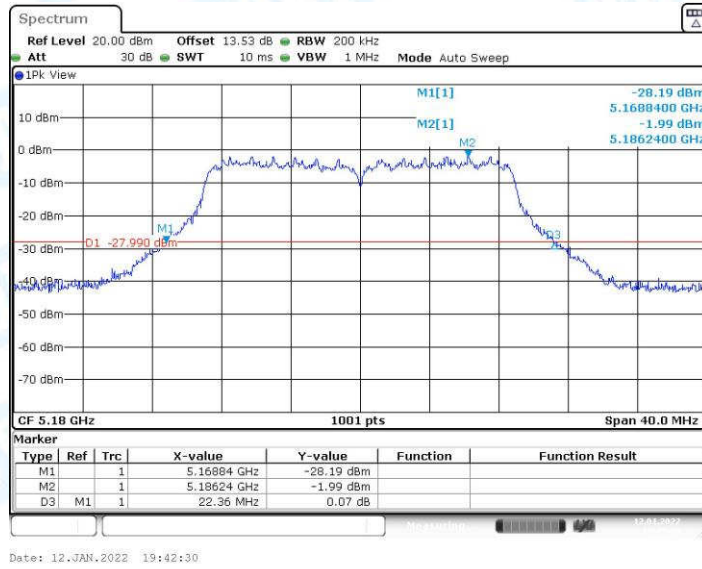
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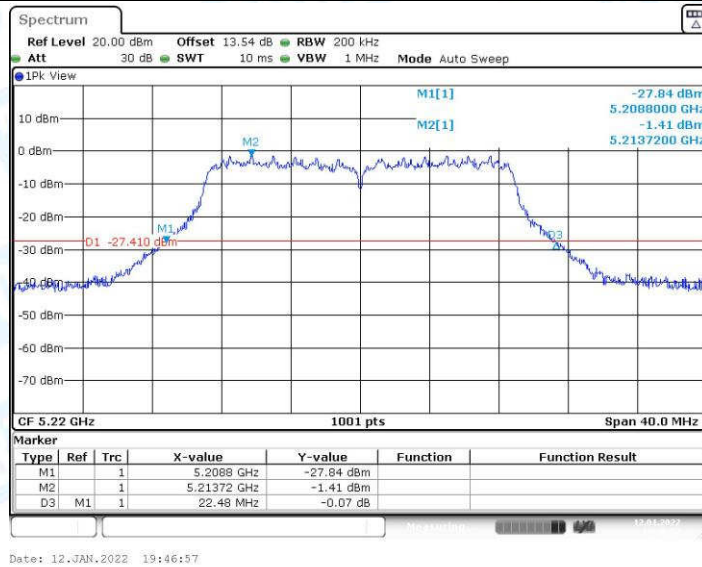
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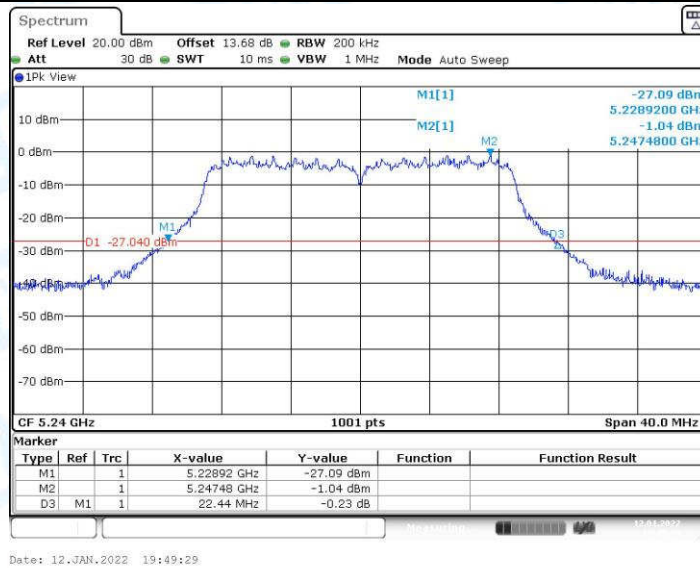
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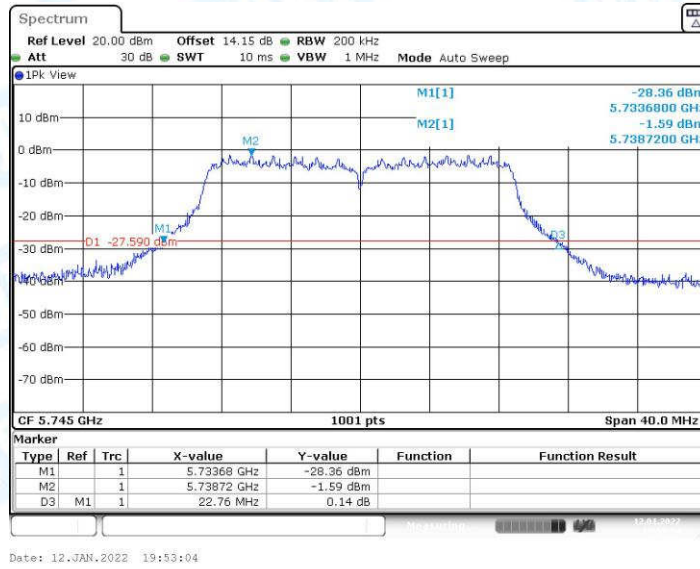
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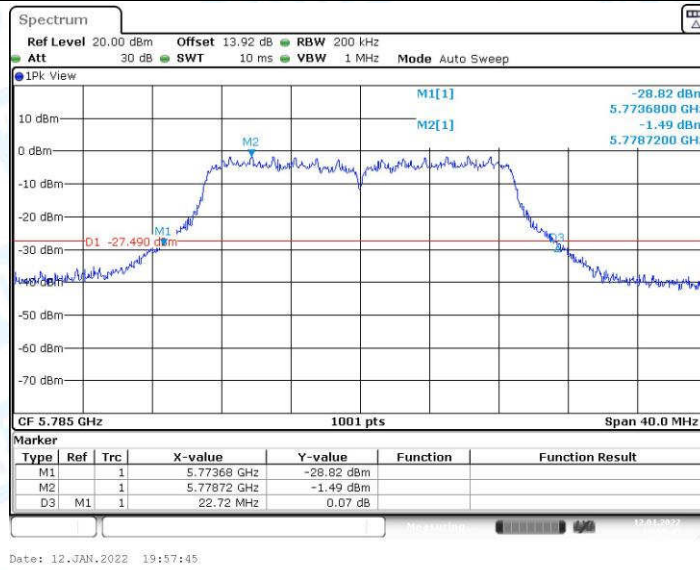
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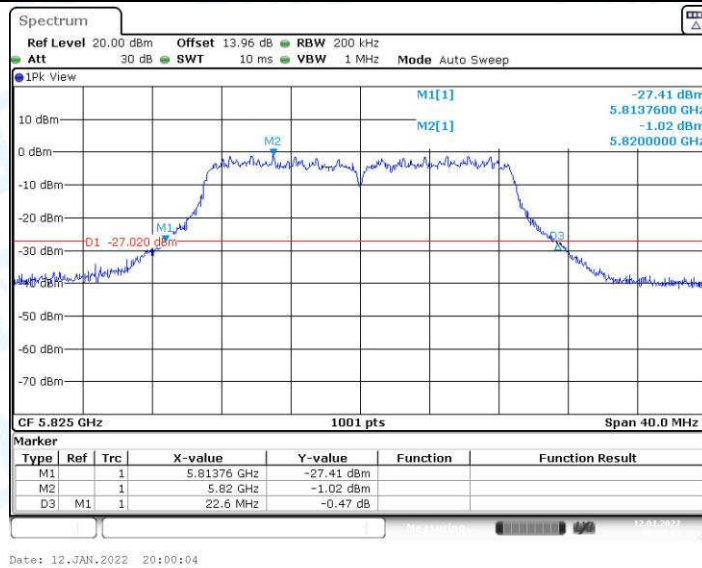
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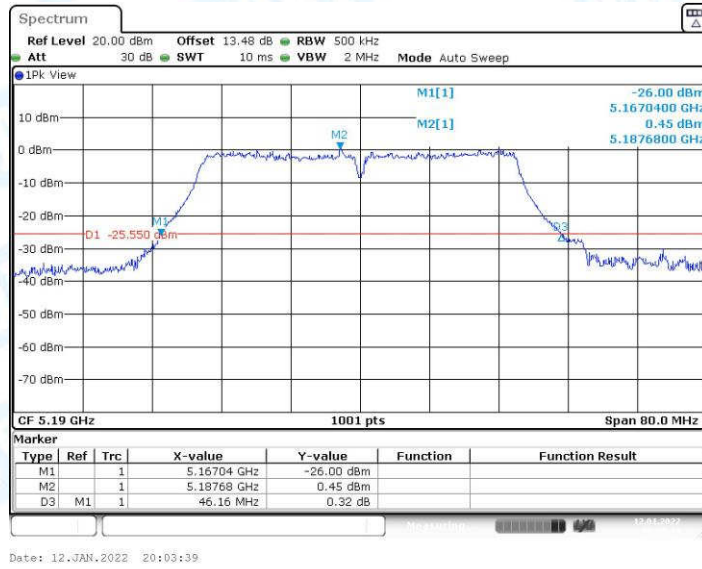
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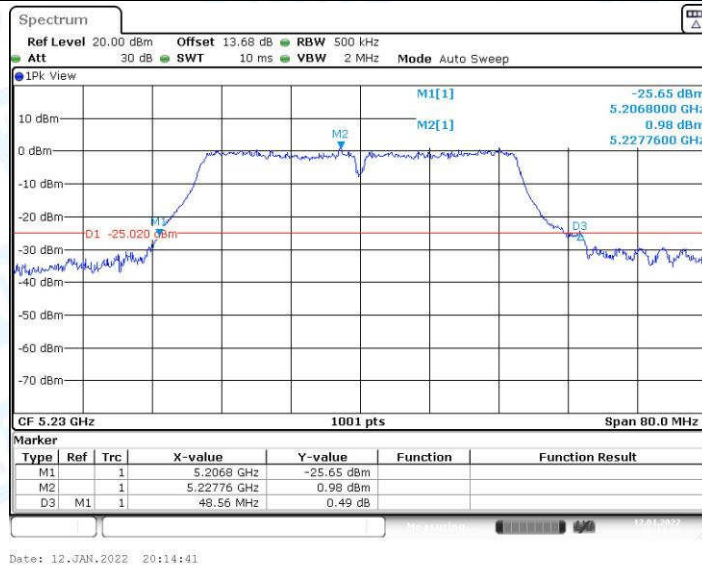
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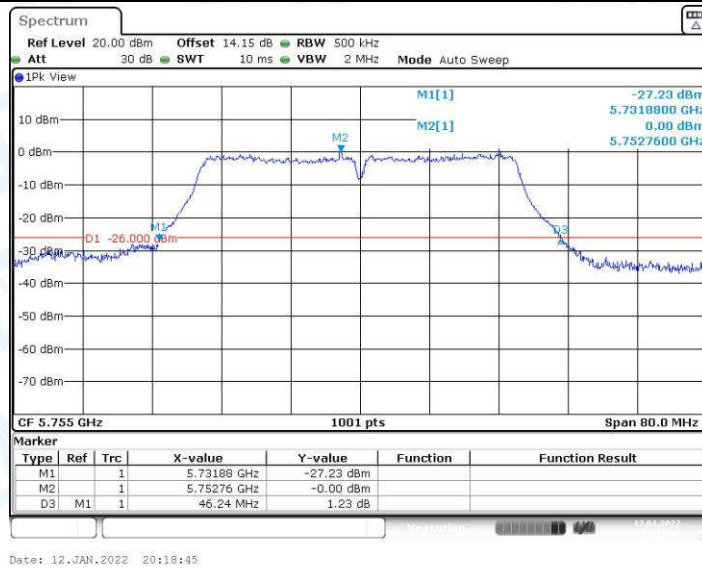
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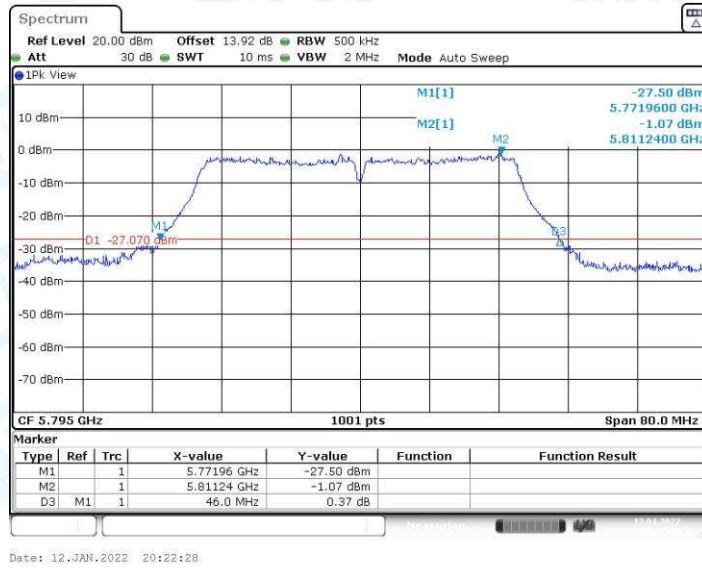
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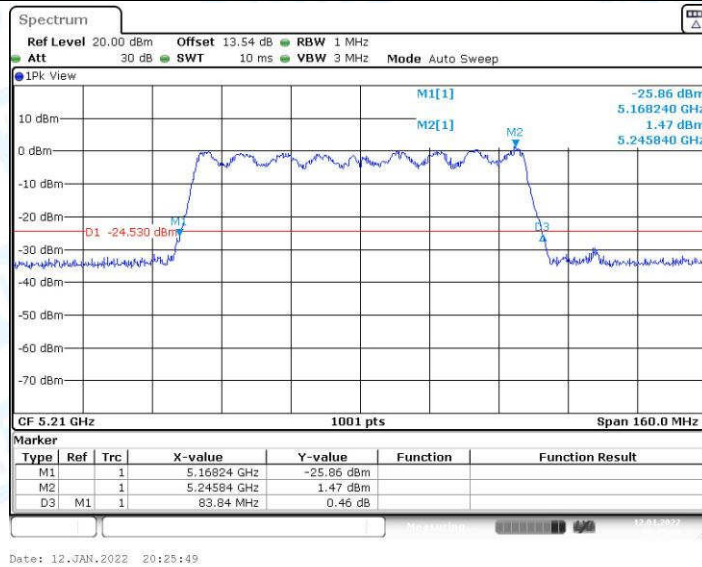
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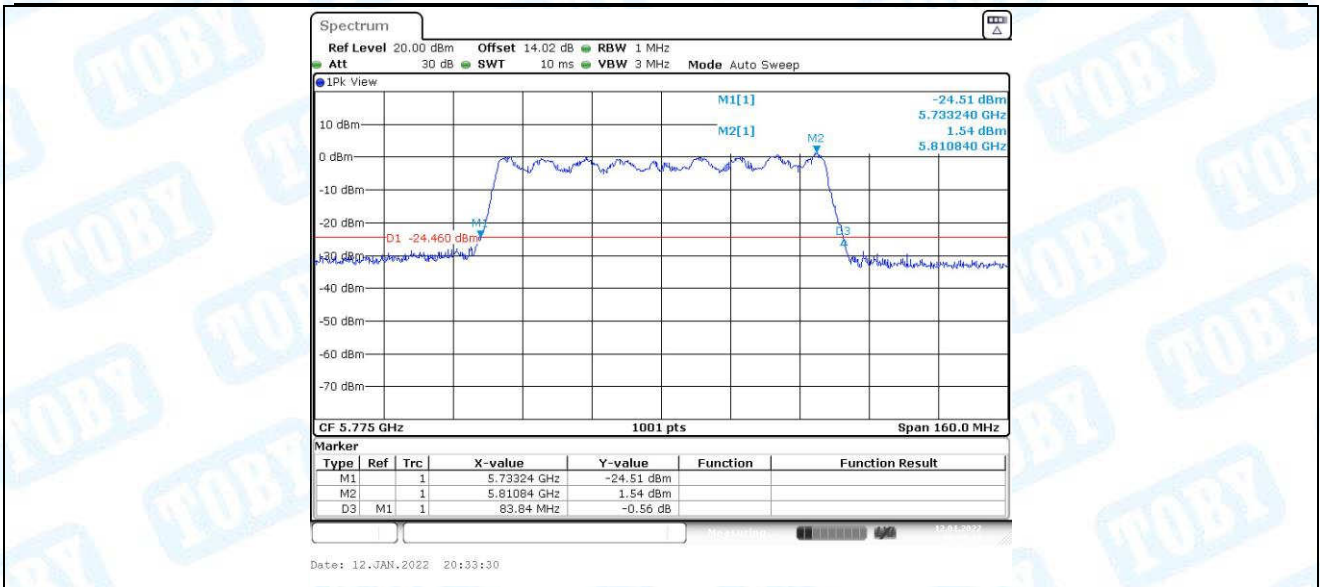
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



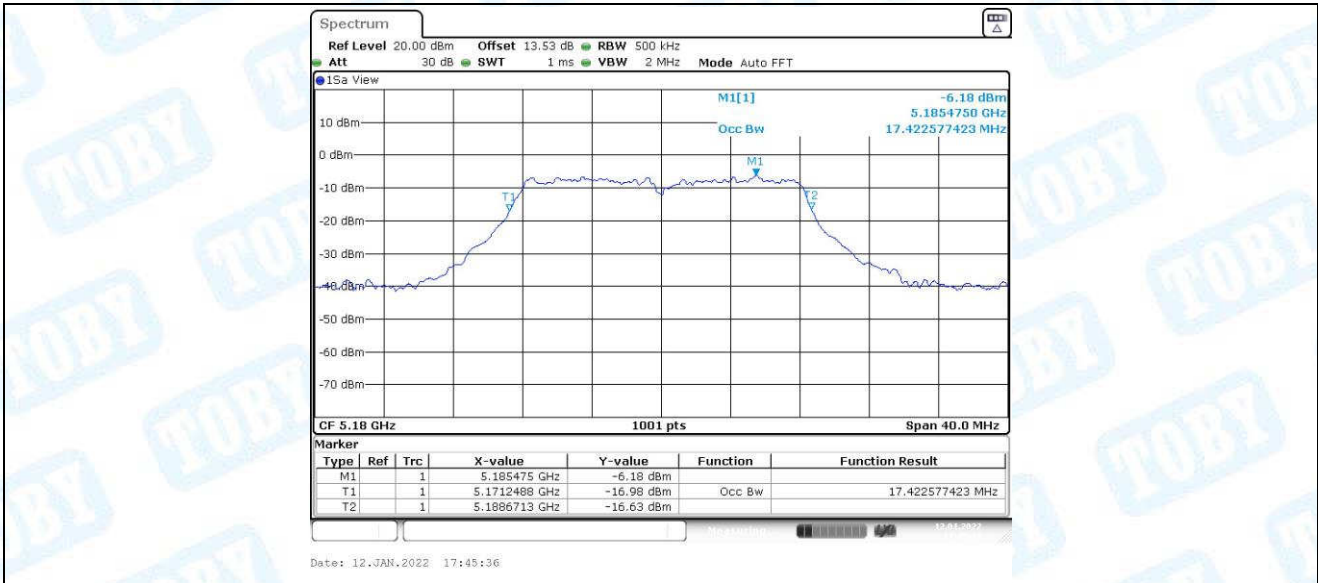
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2. Occupied channel bandwidth

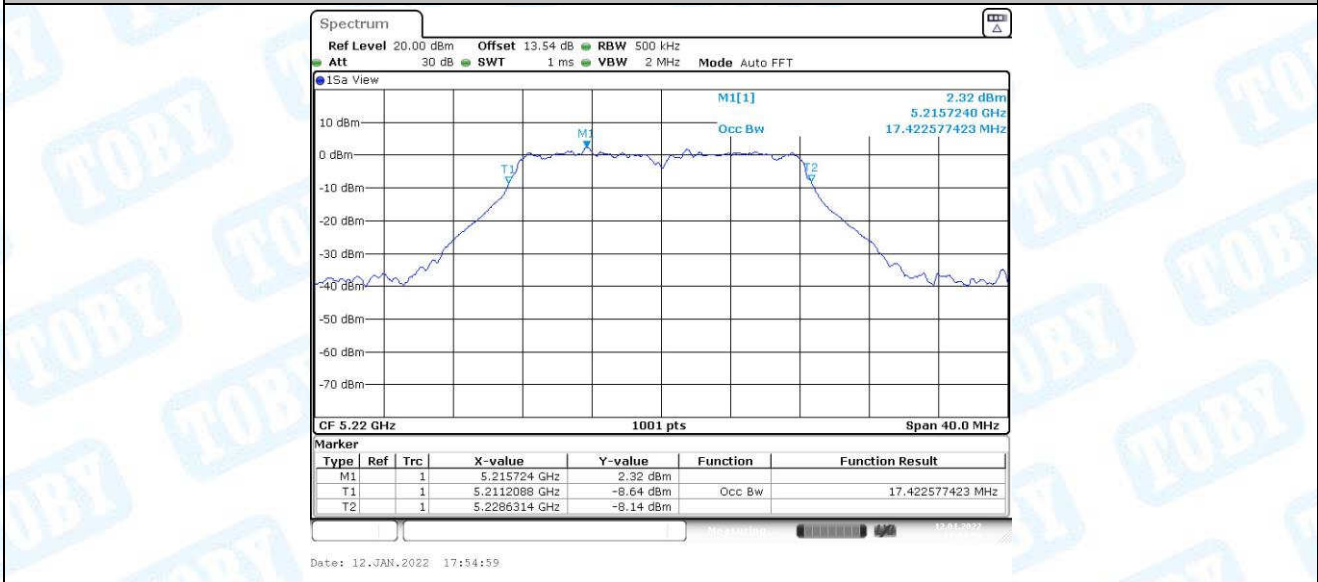
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.423	5171.249	5188.671	---	---
		5220	17.423	5211.209	5228.631	---	---
		5240	17.143	5231.369	5248.511	---	---
		5745	17.902	5736.129	5754.031	---	---
		5785	18.022	5775.849	5793.871	---	---
		5825	17.103	5816.249	5833.352	---	---
11N20SISO	Ant1	5180	18.501	5170.649	5189.151	---	---
		5220	18.501	5210.849	5229.351	---	---
		5240	18.741	5230.769	5249.510	---	---
		5745	18.541	5735.769	5754.311	---	---
		5785	18.422	5775.809	5794.231	---	---
		5825	18.621	5815.450	5834.071	---	---
11N40SISO	Ant1	5190	36.763	5171.618	5208.382	---	---
		5230	37.483	5211.379	5248.861	---	---
		5755	37.163	5736.299	5773.462	---	---
		5795	37.562	5776.299	5813.861	---	---
11AC20SISO	Ant1	5180	18.262	5170.929	5189.191	---	---
		5220	18.222	5210.849	5229.071	---	---
		5240	18.262	5230.849	5249.111	---	---
		5745	18.382	5735.889	5754.271	---	---
		5785	18.342	5775.809	5794.151	---	---
		5825	18.462	5815.649	5834.111	---	---
11AC40SISO	Ant1	5190	38.442	5170.899	5209.341	---	---
		5230	37.083	5211.459	5248.541	---	---
		5755	37.722	5736.459	5774.181	---	---
		5795	37.962	5775.500	5813.462	---	---
11AC80SISO	Ant1	5210	76.563	5171.958	5248.521	---	---
		5775	76.723	5736.798	5813.521	---	---

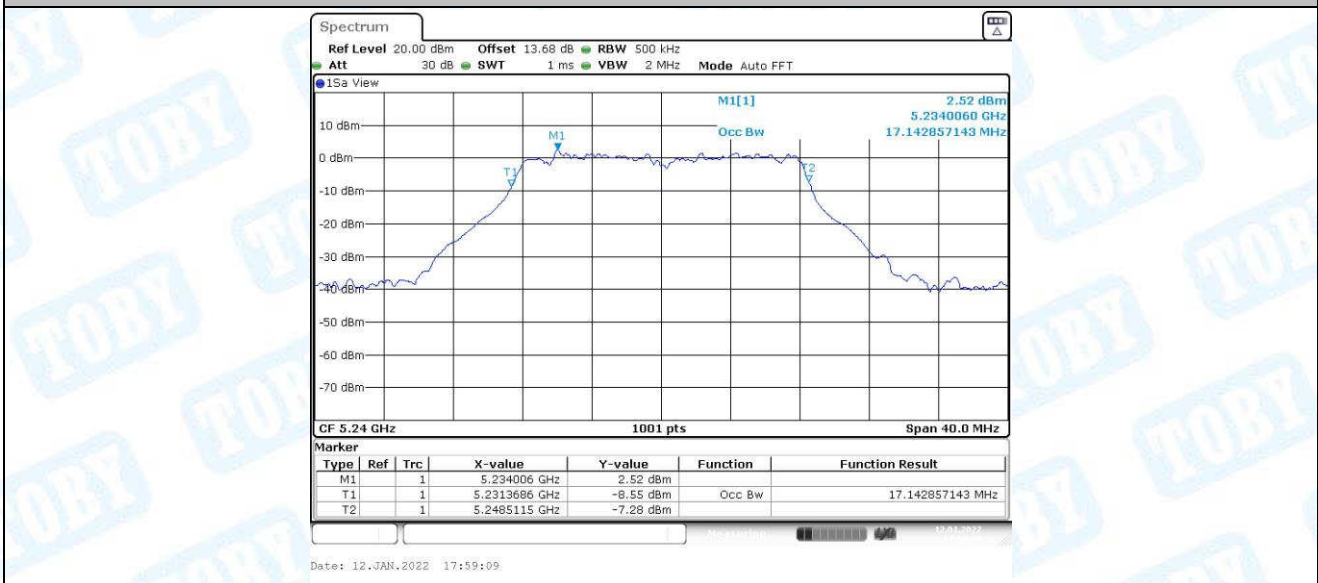
2.2. Test Graphs



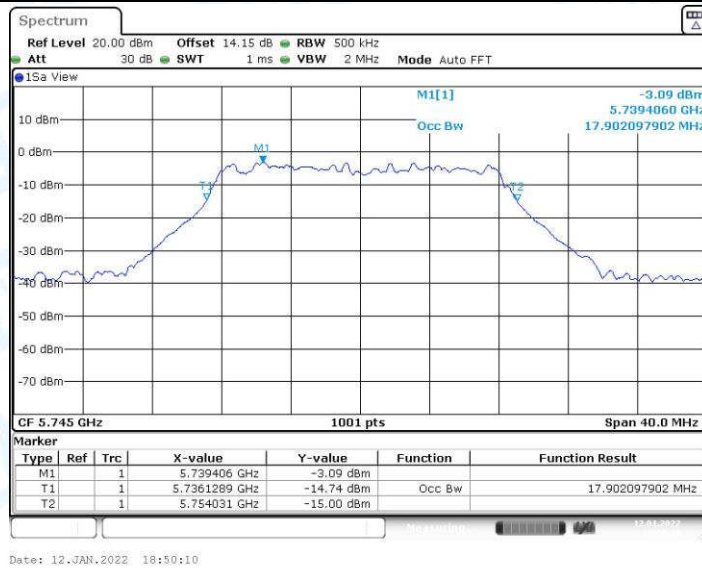
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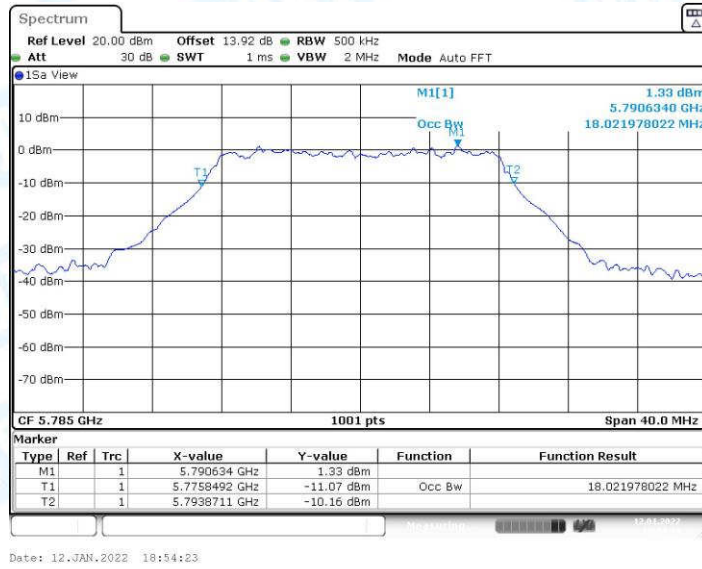
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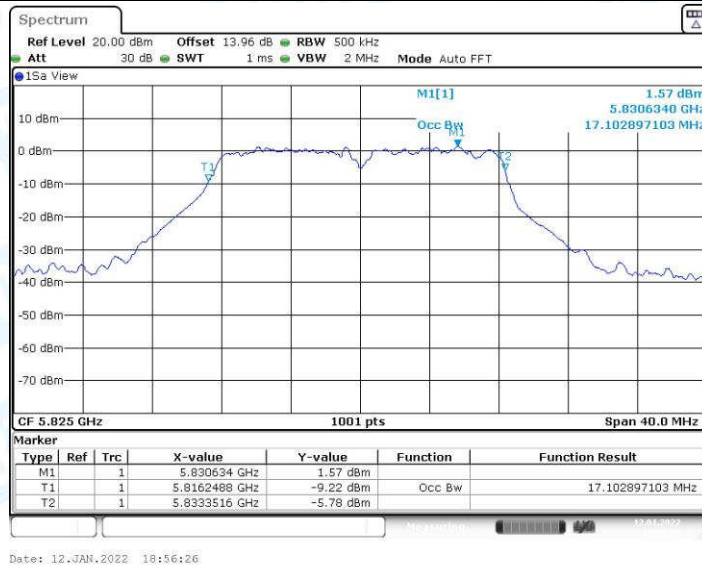
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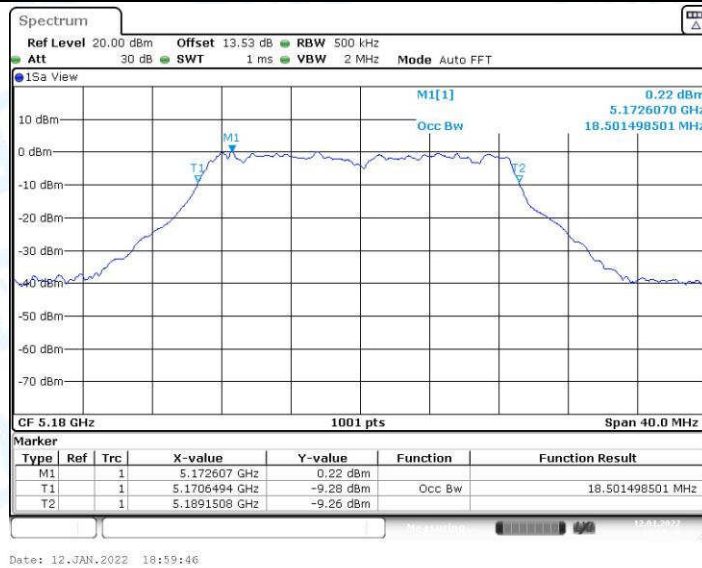
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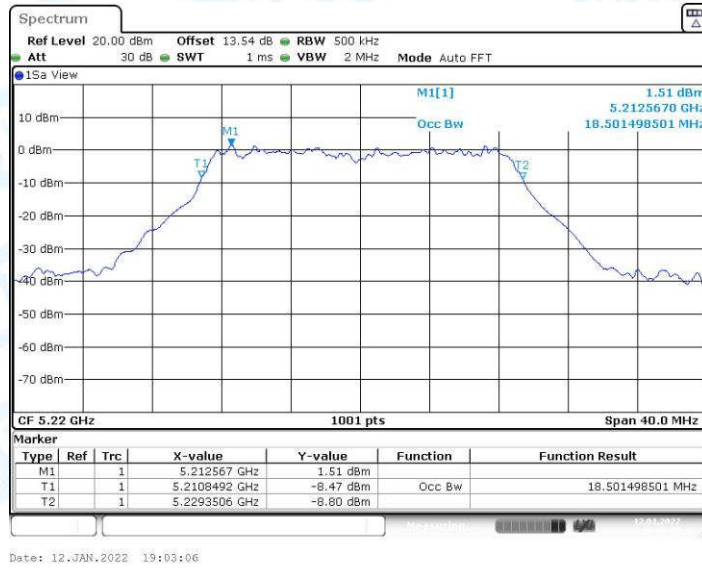
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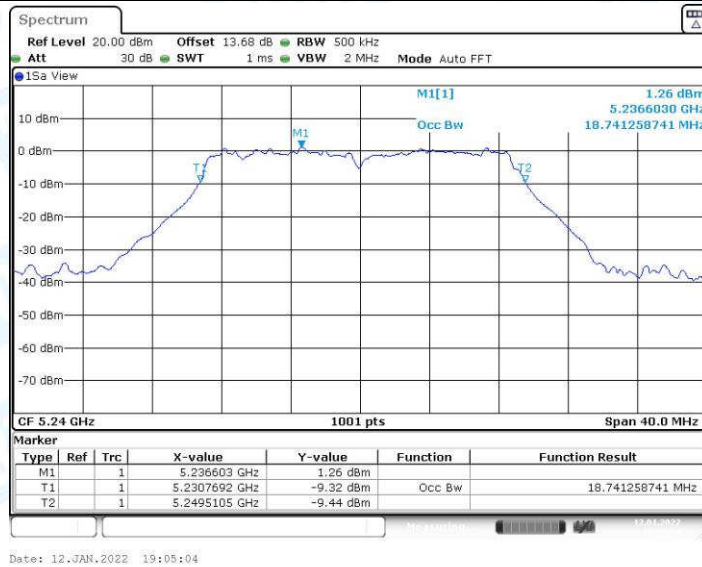
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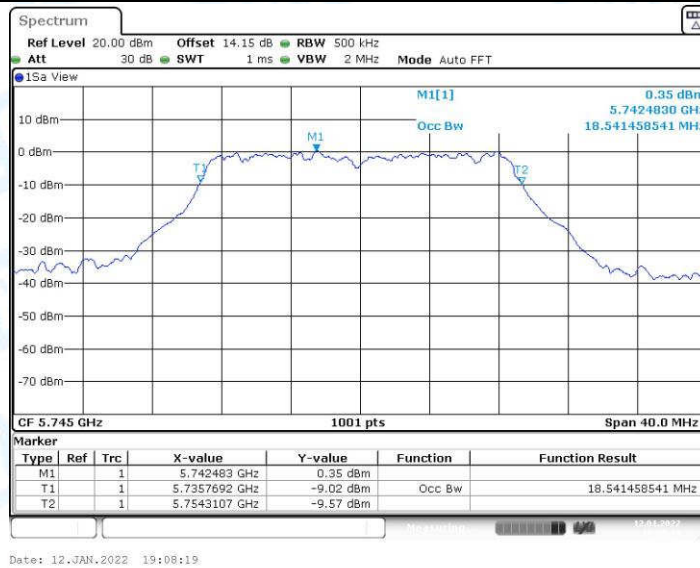
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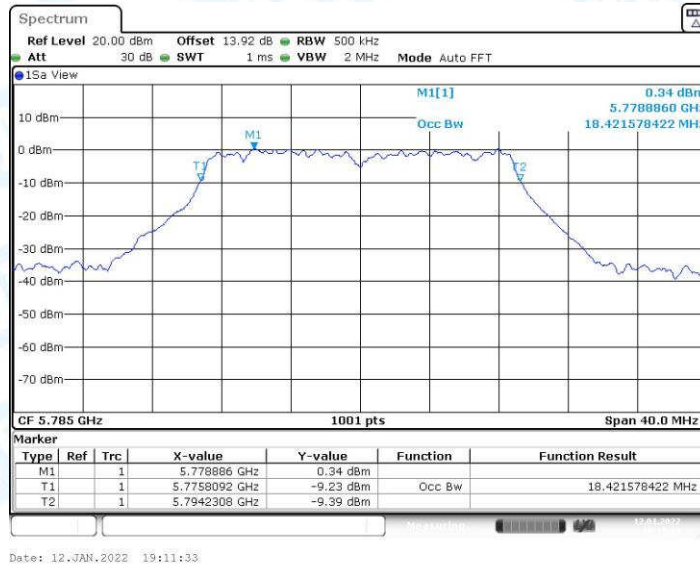
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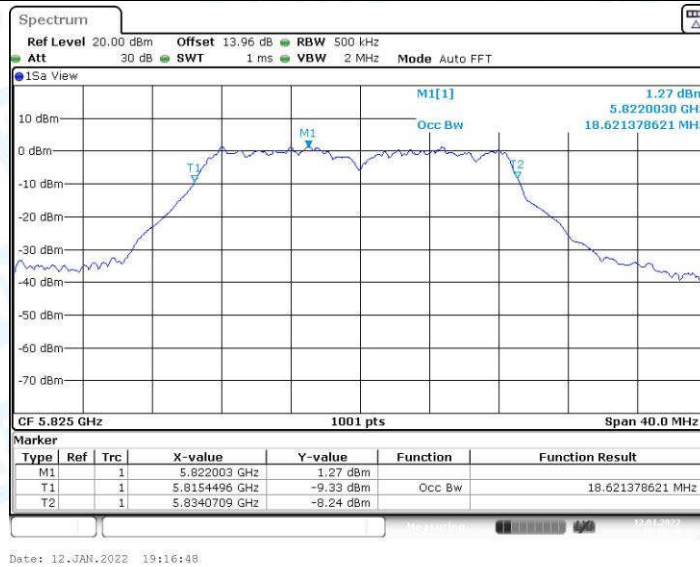
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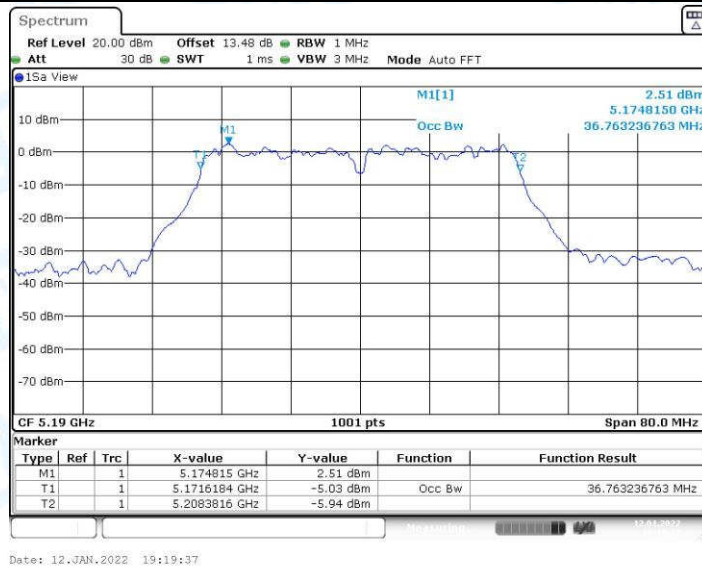
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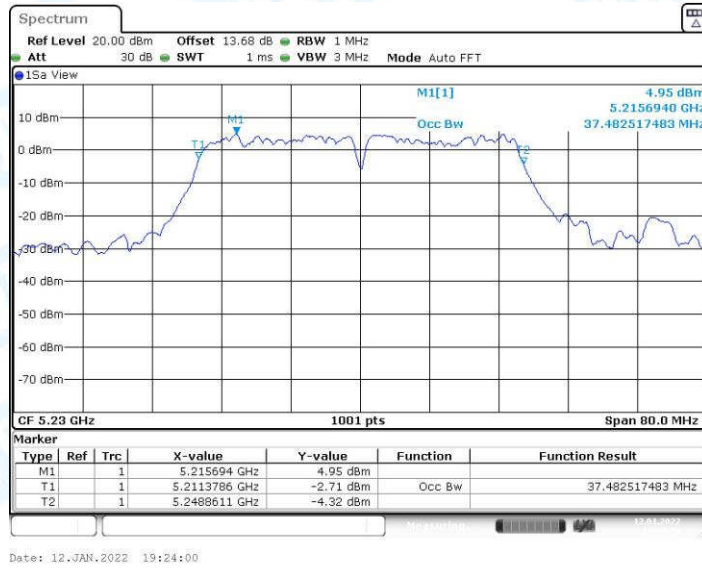
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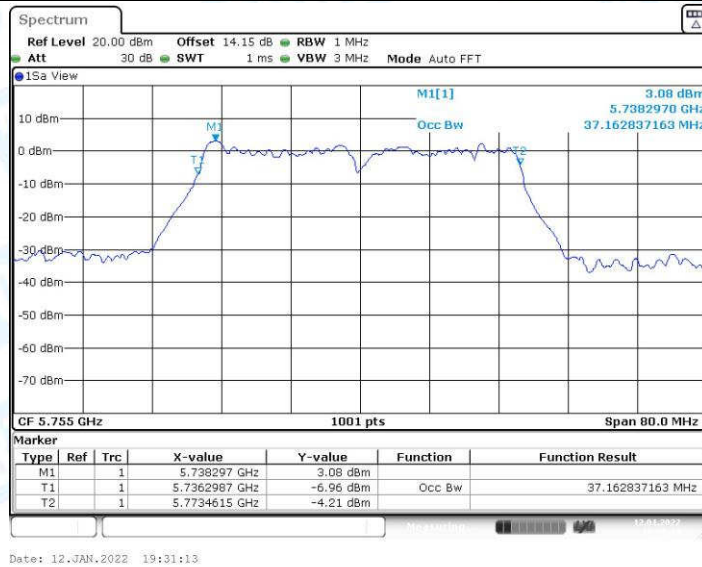
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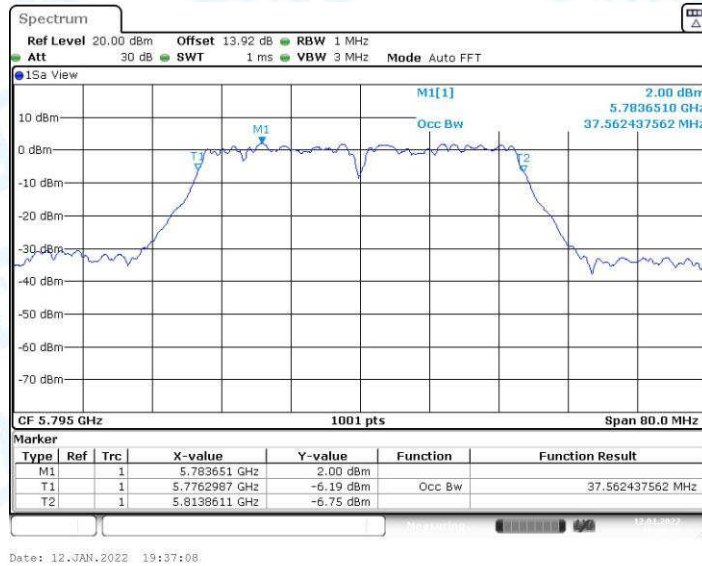
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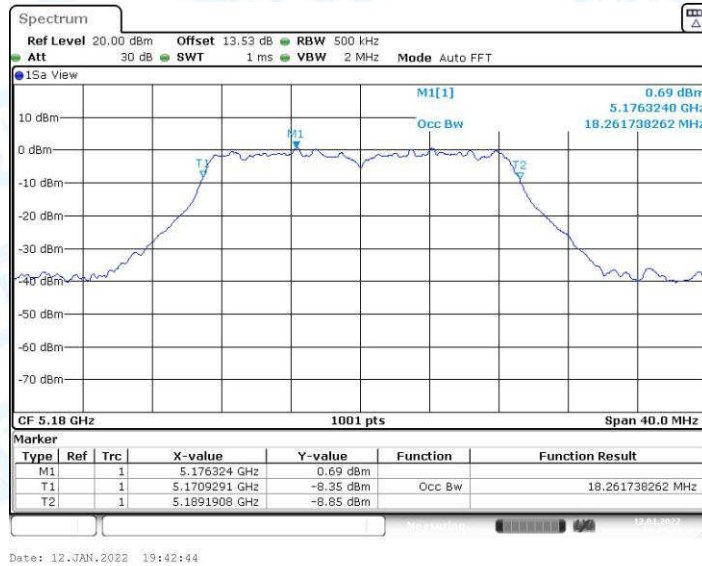
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11N40SISO_Ant1_5755



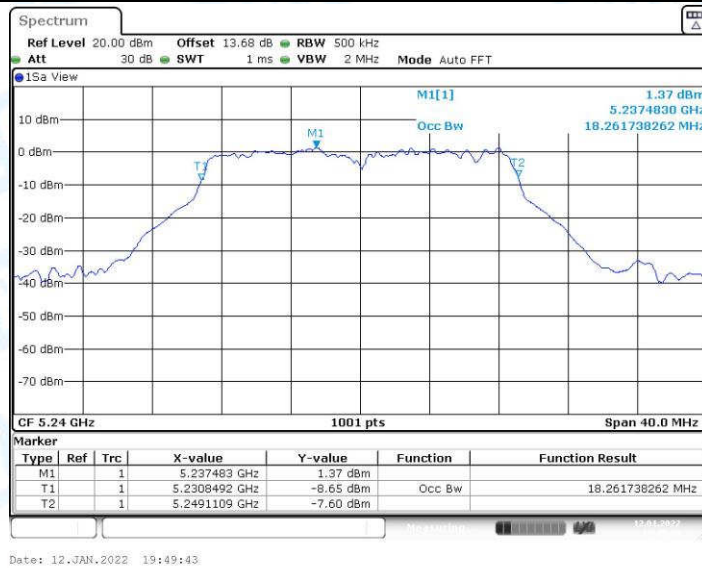
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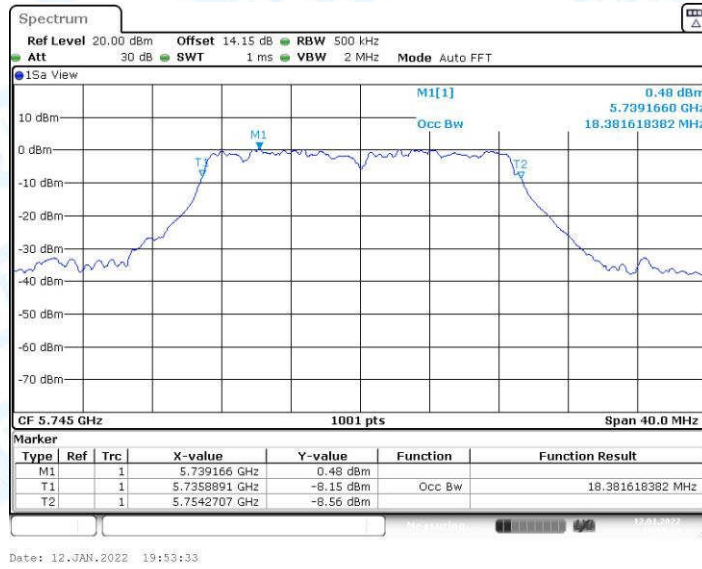
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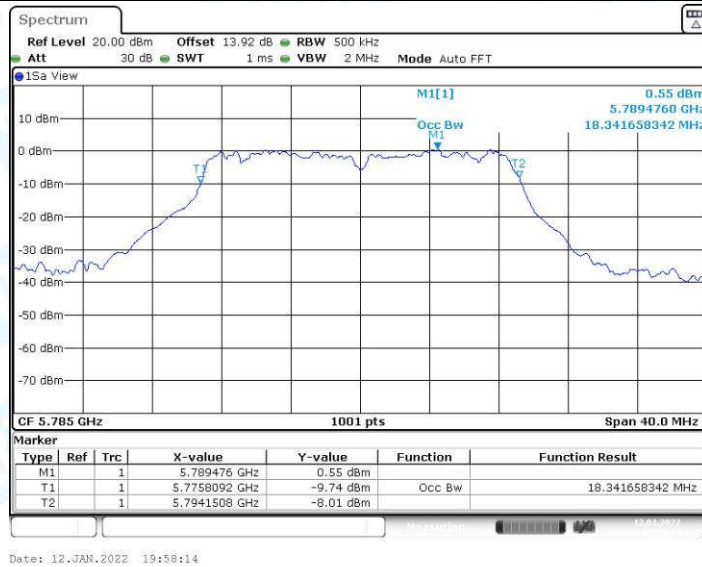
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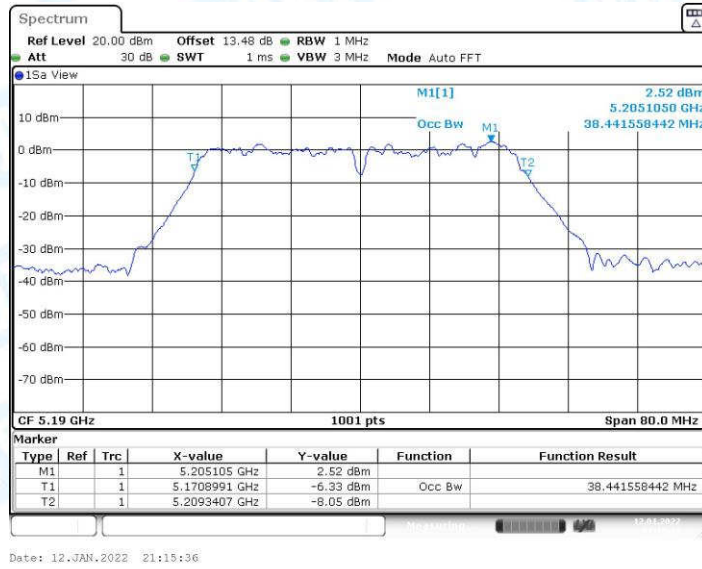
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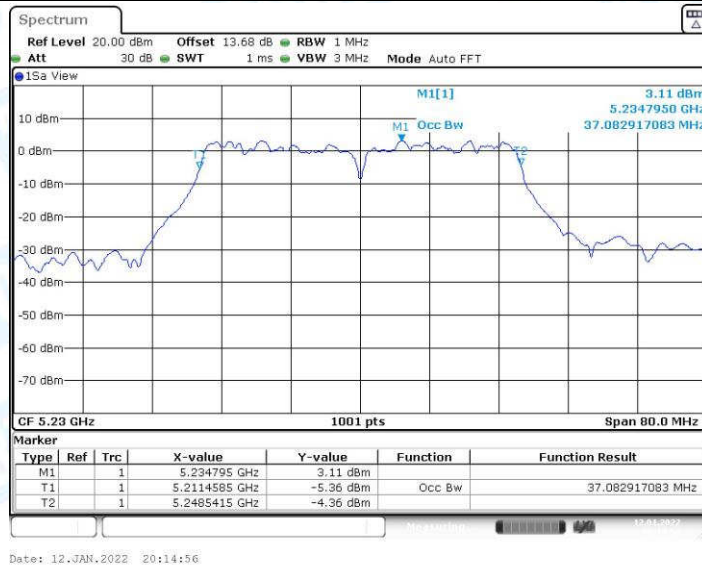
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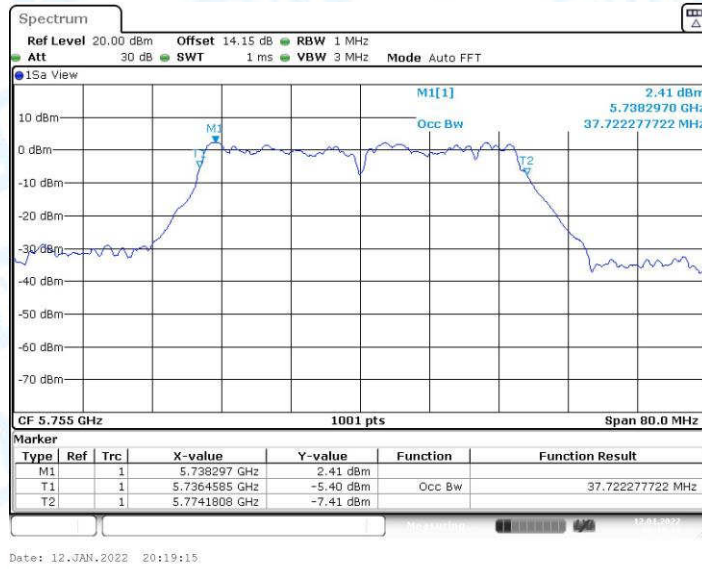
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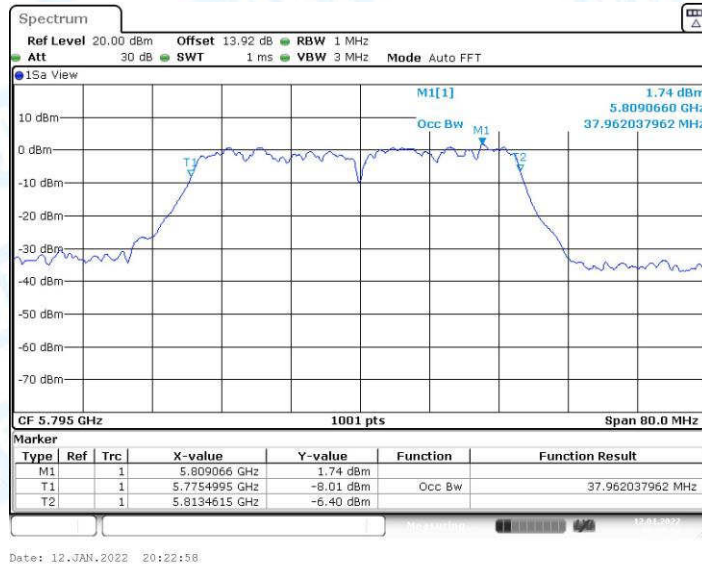
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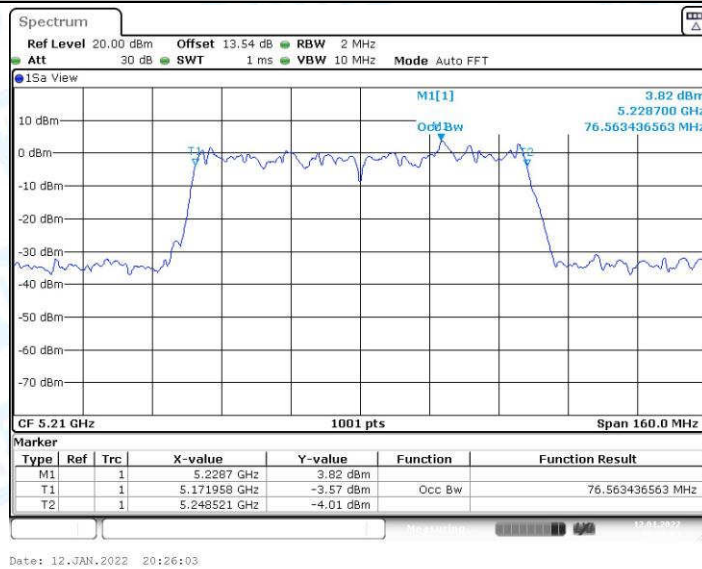
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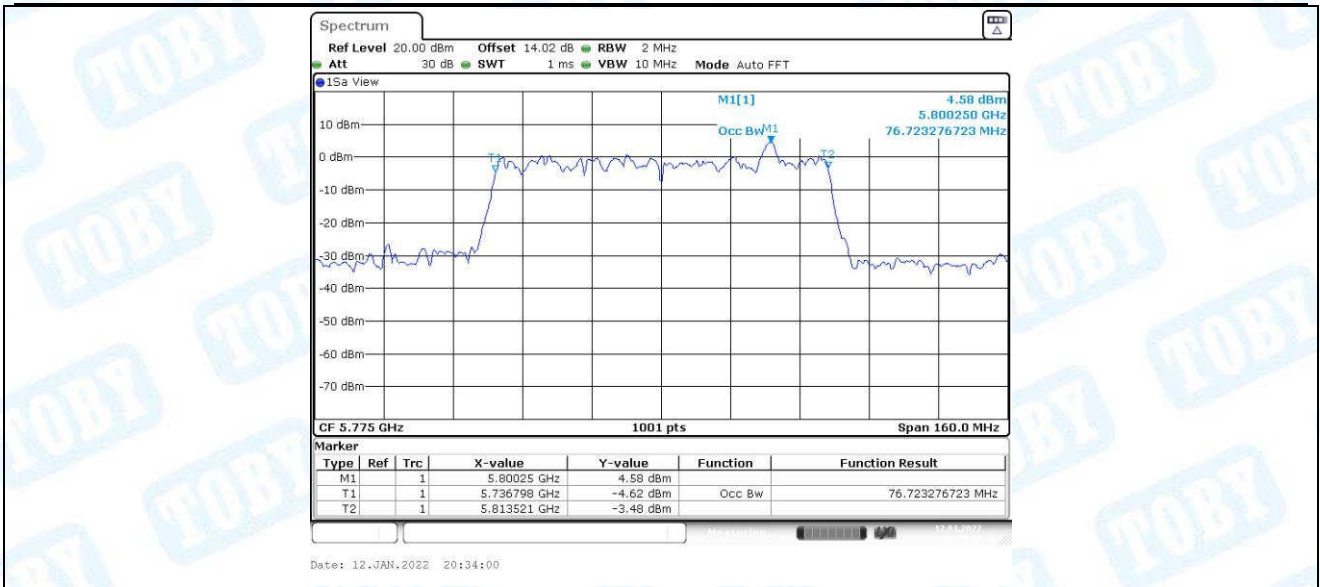
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



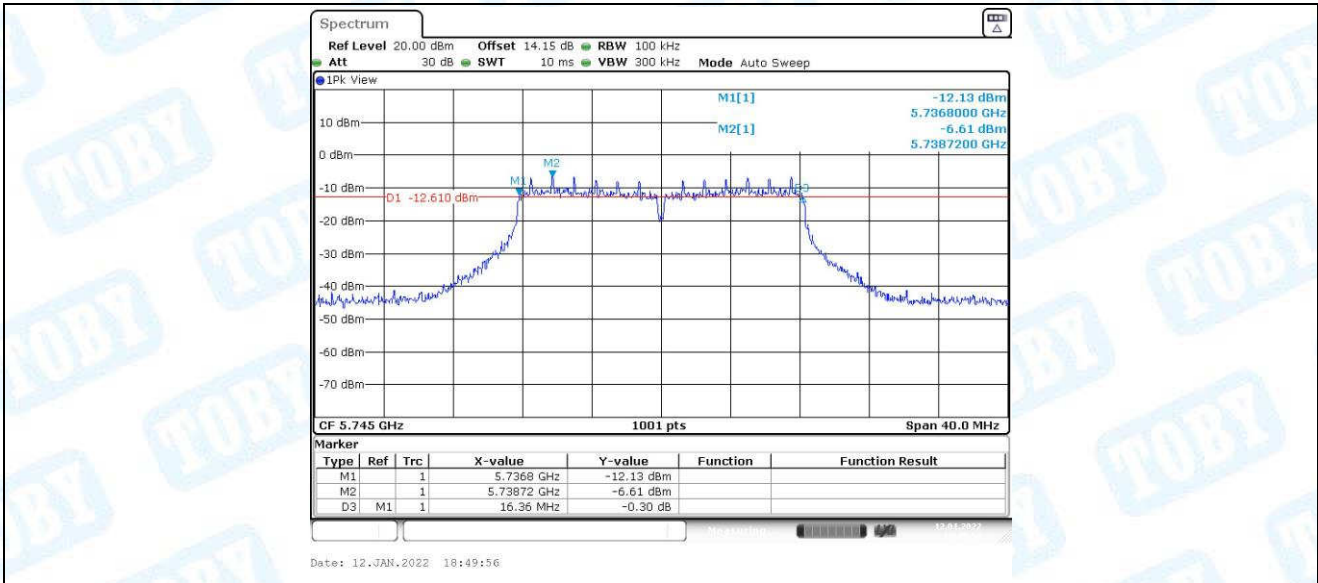
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3. Min emission bandwidth

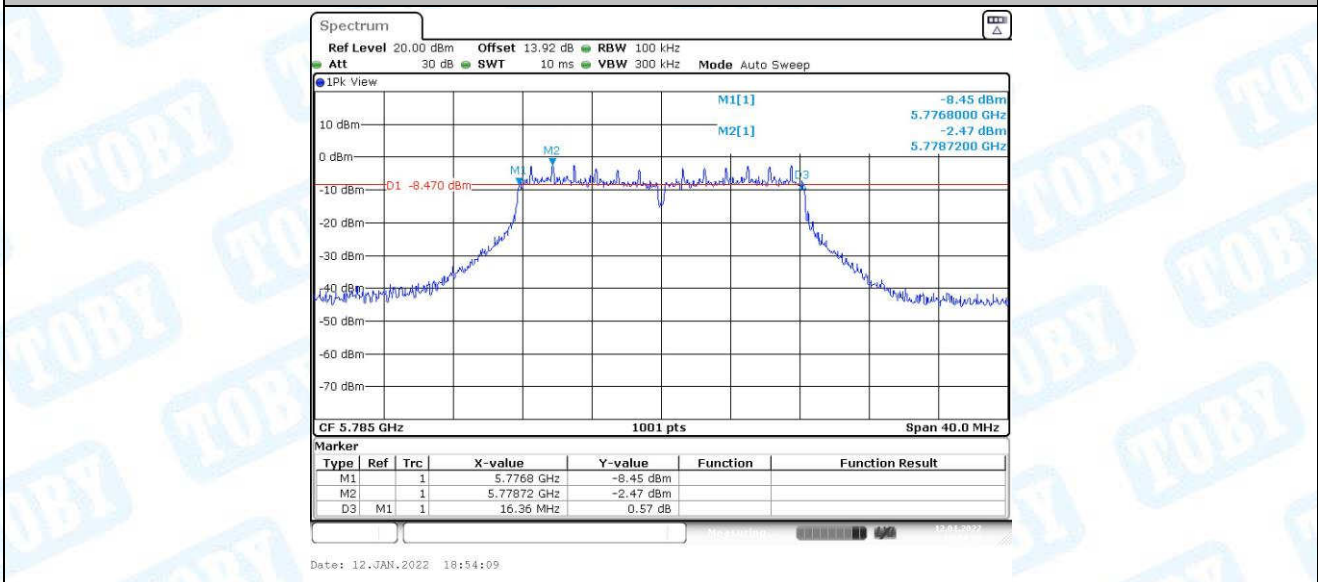
3.1. Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.36	5736.80	5753.16	0.5	PASS
		5785	16.36	5776.80	5793.16	0.5	PASS
		5825	16.36	5816.80	5833.16	0.5	PASS
11N20SISO	Ant1	5745	17.56	5736.20	5753.76	0.5	PASS
		5785	17.56	5776.20	5793.76	0.5	PASS
		5825	17.52	5816.24	5833.76	0.5	PASS
11N40SISO	Ant1	5755	36.32	5736.84	5773.16	0.5	PASS
		5795	36.00	5777.16	5813.16	0.5	PASS
11AC20SISO	Ant1	5745	17.56	5736.20	5753.76	0.5	PASS
		5785	17.56	5776.20	5793.76	0.5	PASS
		5825	17.56	5816.20	5833.76	0.5	PASS
11AC40SISO	Ant1	5755	36.00	5737.16	5773.16	0.5	PASS
		5795	36.32	5776.84	5813.16	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

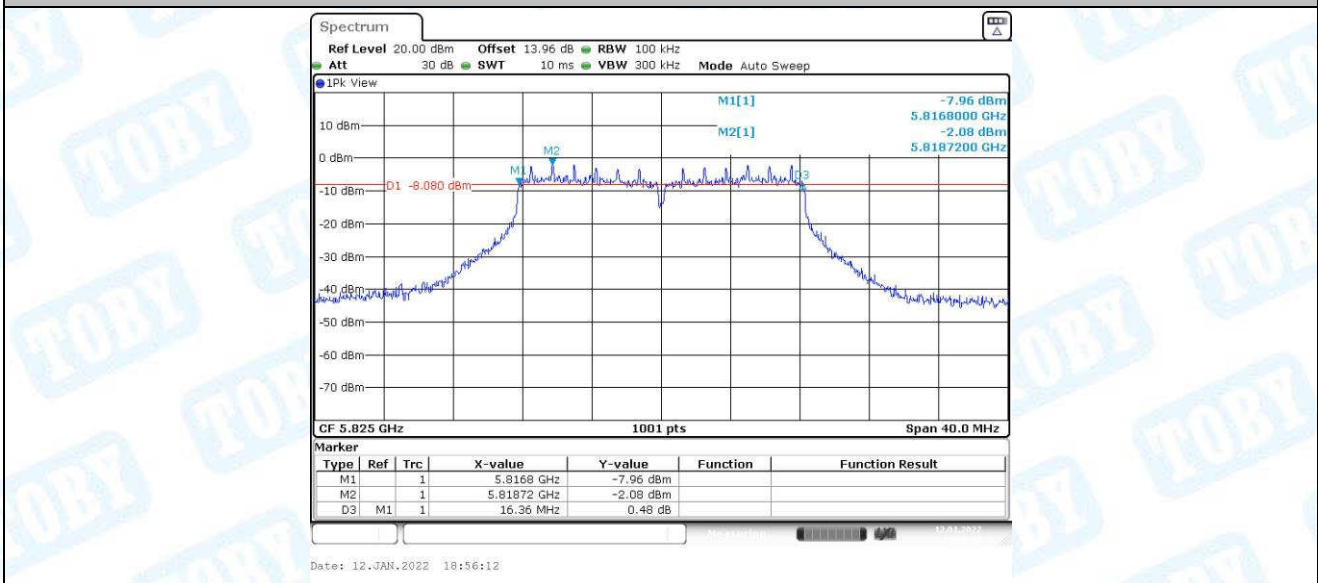
3.2. Test Graphs



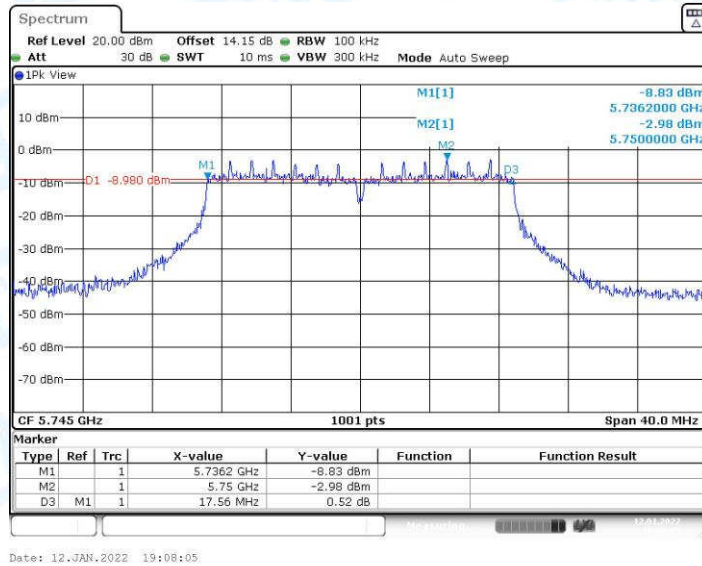
11A_Ant1_5745



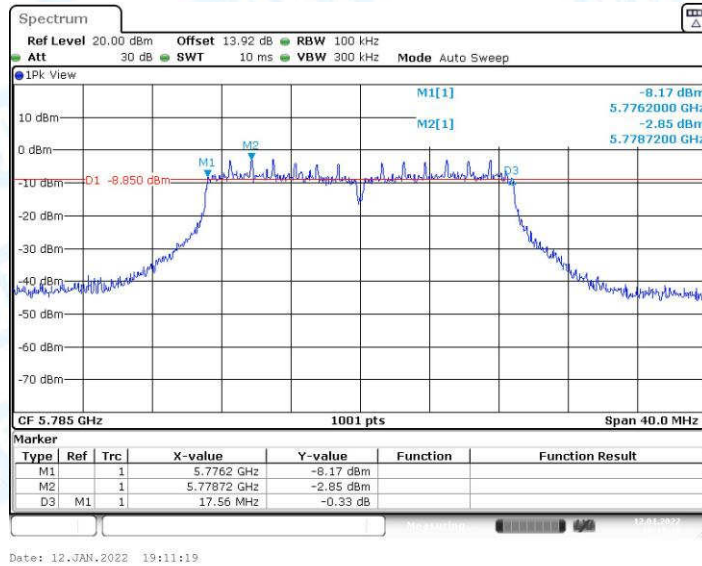
11A_Ant1_5785



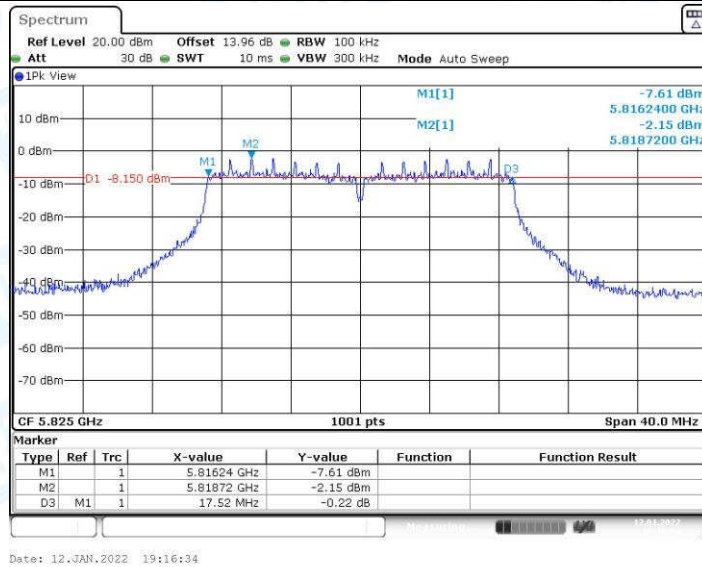
11A_Ant1_5825



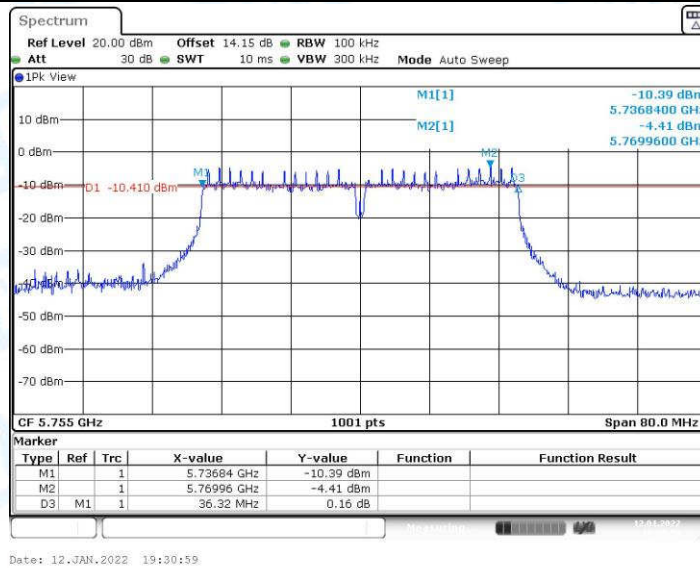
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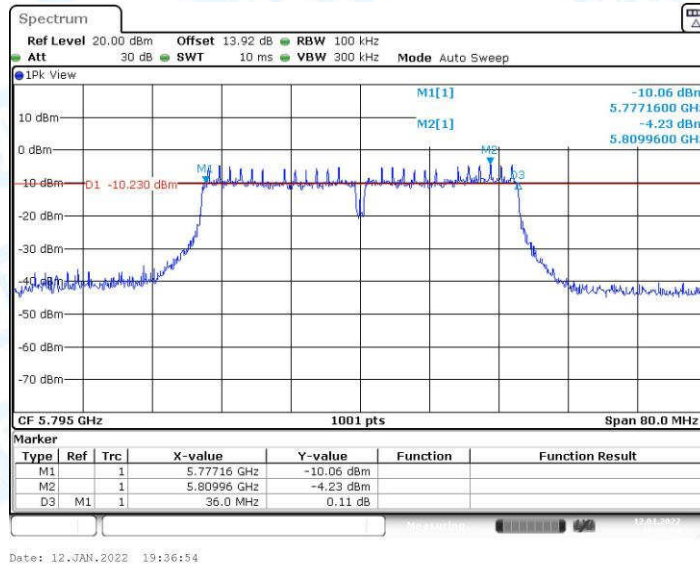
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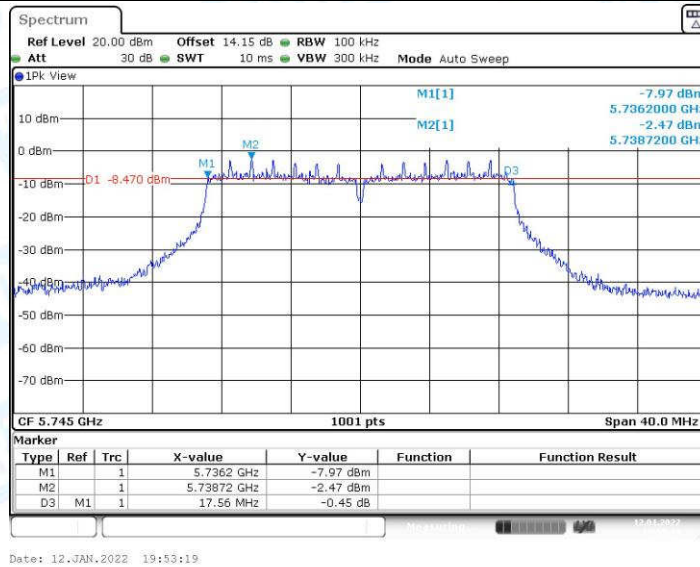
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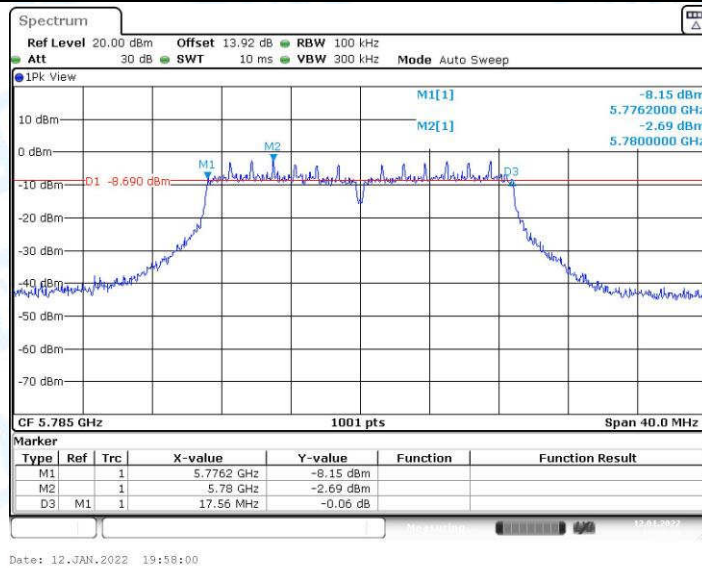
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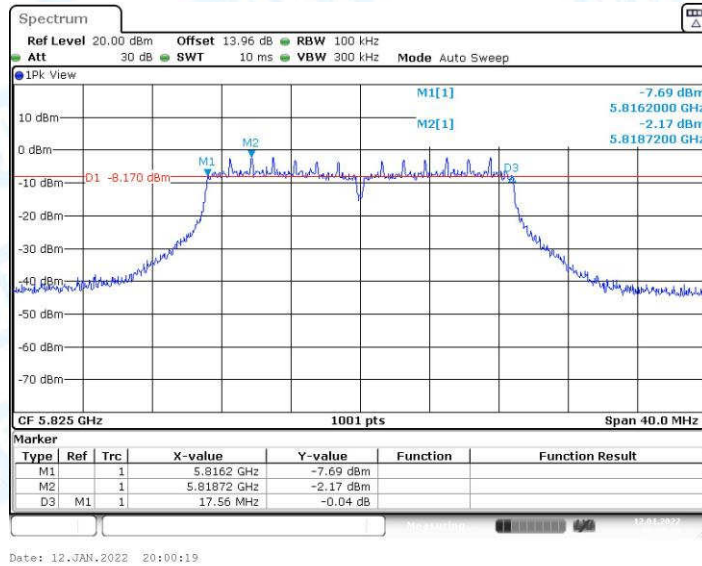
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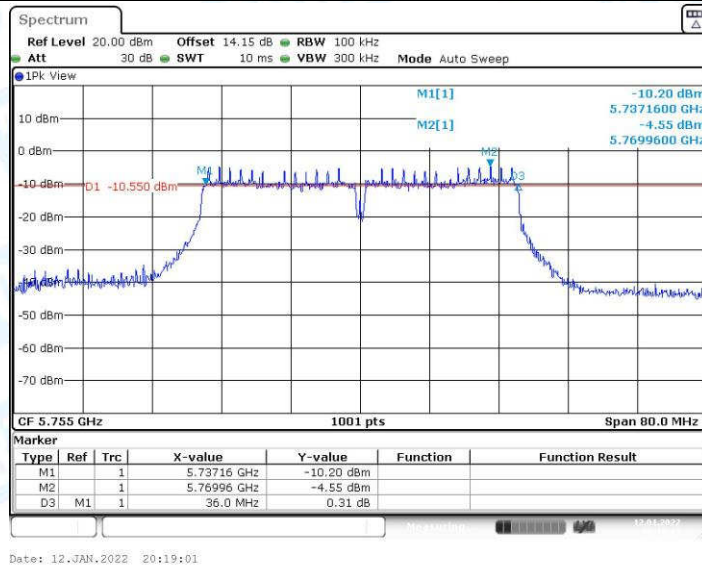
11A20SISO_Ant1_5745



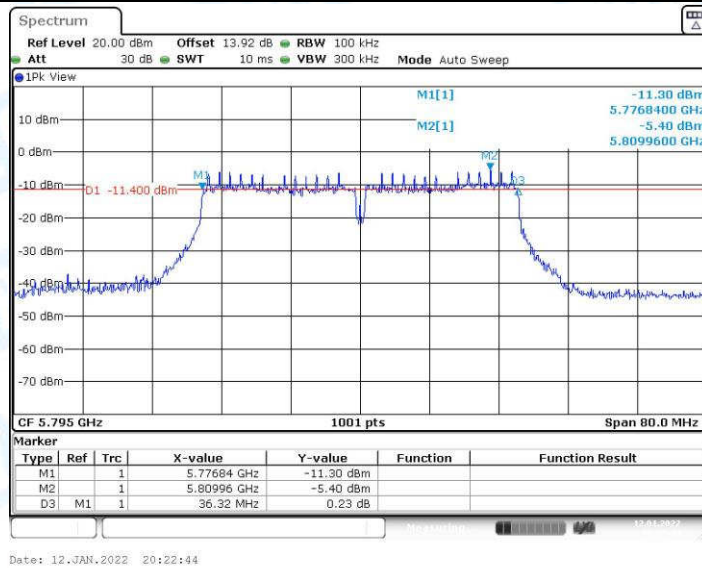
11AC20SISO_Ant1_5785



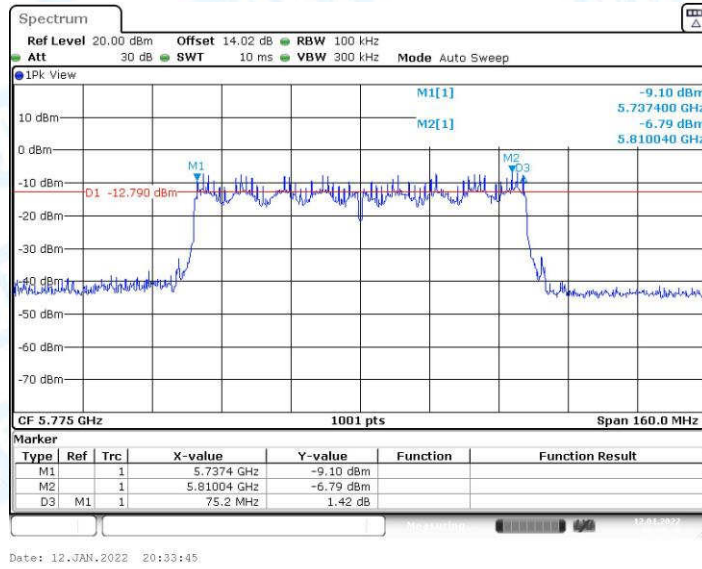
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

4. Maximum conducted output power

4.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.83	≤30.00	PASS
		5220	7.62	≤30.00	PASS
		5240	7.42	≤30.00	PASS
		5745	6.79	≤30.00	PASS
		5785	6.57	≤30.00	PASS
		5825	6.85	≤30.00	PASS
11N20SISO	Ant1	5180	7.78	≤30.00	PASS
		5220	7.01	≤30.00	PASS
		5240	7.64	≤30.00	PASS
		5745	6.19	≤30.00	PASS
		5785	6.62	≤30.00	PASS
		5825	6.69	≤30.00	PASS
11N40SISO	Ant1	5190	7.22	≤30.00	PASS
		5230	7.09	≤30.00	PASS
		5755	6.76	≤30.00	PASS
		5795	6.97	≤30.00	PASS
11AC20SISO	Ant1	5180	7.08	≤30.00	PASS
		5220	7.08	≤30.00	PASS
		5240	7.28	≤30.00	PASS
		5745	6.46	≤30.00	PASS
		5785	6.95	≤30.00	PASS
		5825	6.71	≤30.00	PASS
11AC40SISO	Ant1	5190	7.82	≤30.00	PASS
		5230	7.44	≤30.00	PASS
		5755	6.30	≤30.00	PASS
		5795	6.42	≤30.00	PASS
11AC80SISO	Ant1	5210	7.46	≤30.00	PASS
		5775	6.86	≤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	-0.97	≤17.00	PASS
		5220	-1.08	≤17.00	PASS
		5240	-1.12	≤17.00	PASS
		5745	-4.55	≤17.00	PASS
		5785	-4.01	≤17.00	PASS
		5825	-3.46	≤17.00	PASS
11N20SISO	Ant1	5180	-1.82	≤17.00	PASS
		5220	-1.99	≤17.00	PASS
		5240	-0.9	≤17.00	PASS
		5745	-4.65	≤17.00	PASS
		5785	-3.9	≤17.00	PASS
		5825	-3.91	≤17.00	PASS
11N40SISO	Ant1	5190	-4.08	≤17.00	PASS
		5230	-4.11	≤17.00	PASS
		5755	-6.16	≤17.00	PASS
		5795	-6.1	≤17.00	PASS
11AC20SISO	Ant1	5180	-1.84	≤17.00	PASS
		5220	-1.72	≤17.00	PASS
		5240	-1.61	≤17.00	PASS
		5745	-4.31	≤17.00	PASS
		5785	-4.54	≤17.00	PASS
		5825	-3.89	≤17.00	PASS
11AC40SISO	Ant1	5190	-5.4	≤17.00	PASS
		5230	-3.13	≤17.00	PASS
		5755	-6.85	≤17.00	PASS
		5795	-6.46	≤17.00	PASS
11AC80SISO	Ant1	5210	-6.75	≤17.00	PASS
		5775	-8.18	≤17.00	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.

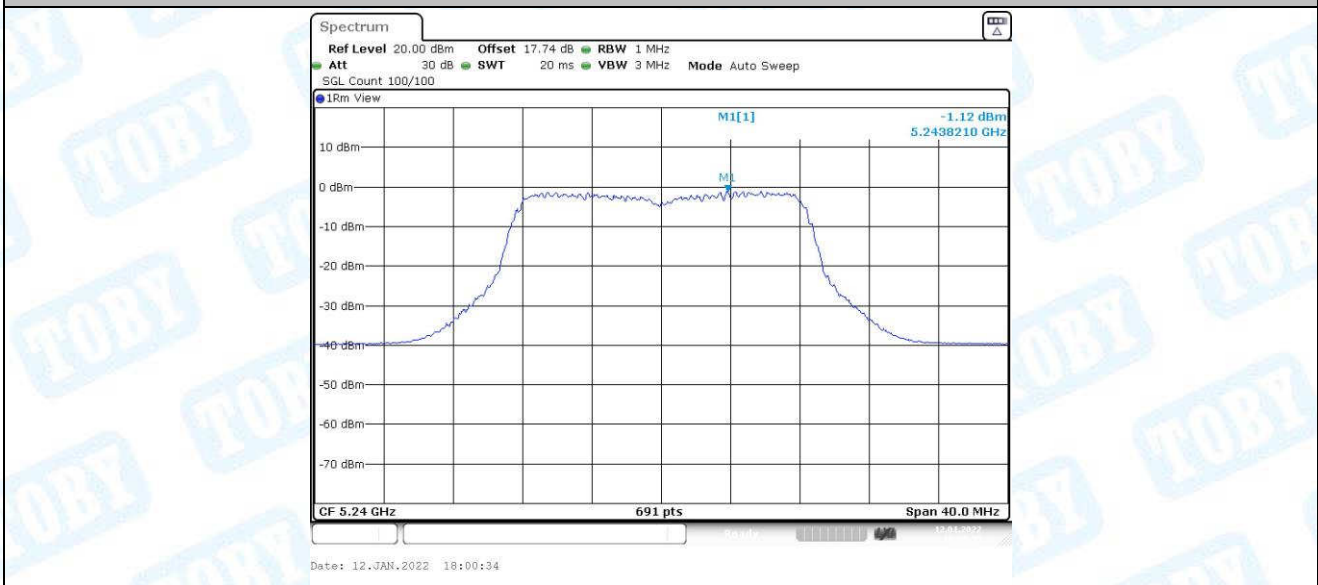
5.2. Test Graphs



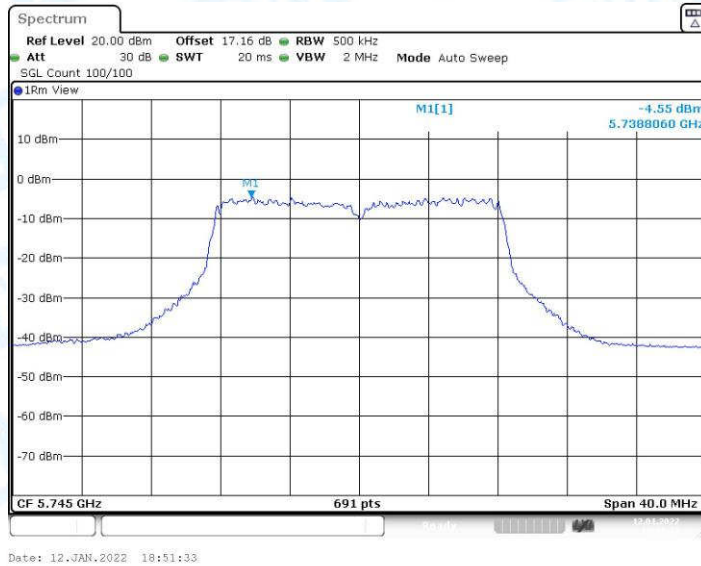
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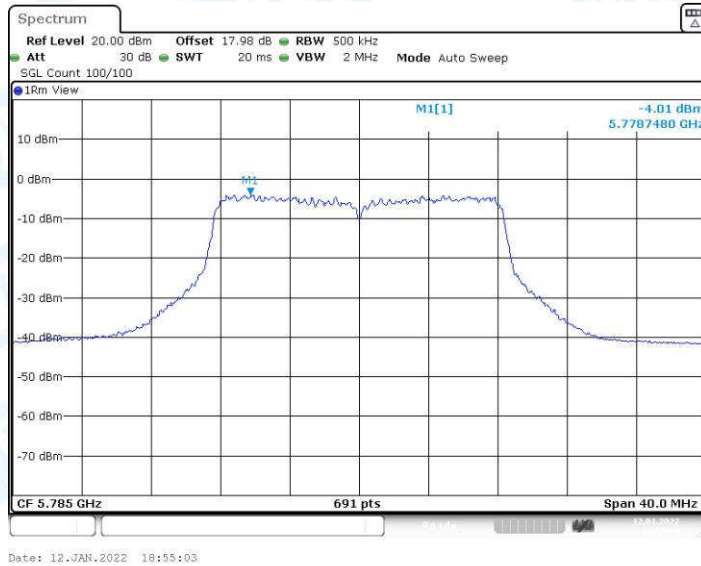
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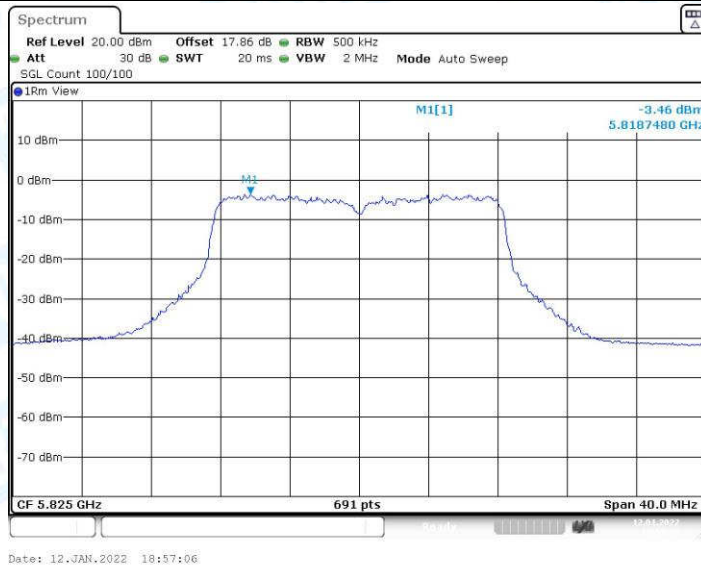
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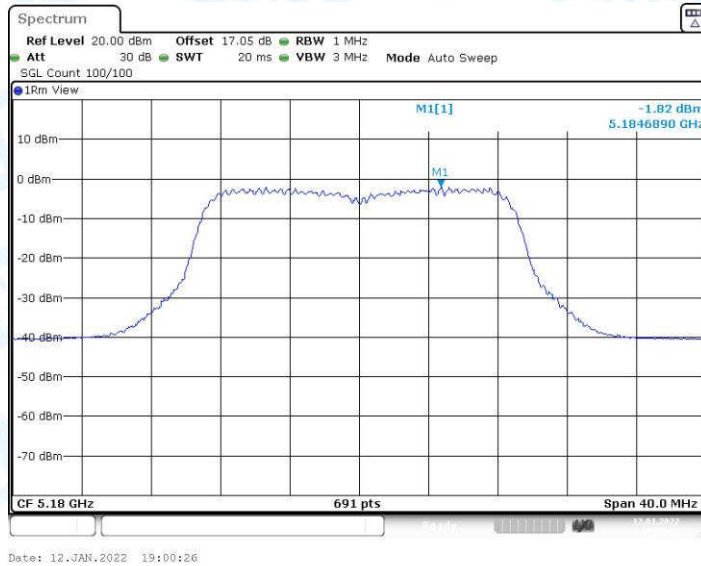
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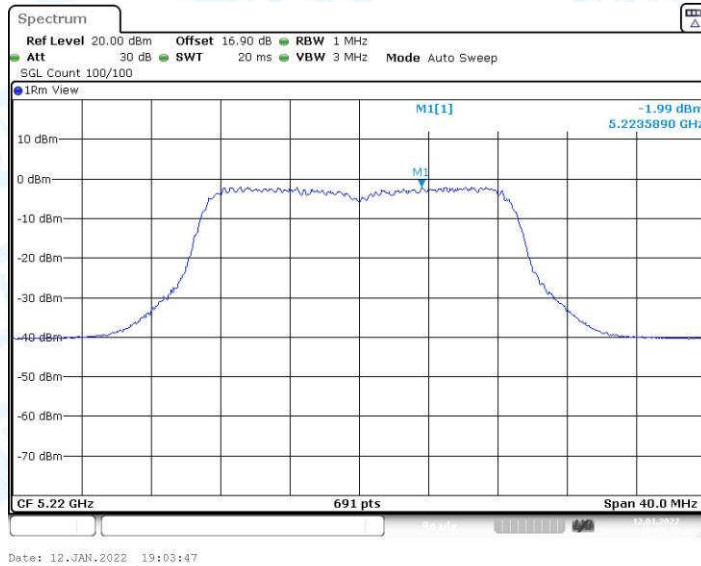
11A_Ant1_5785



11A_Ant1_5825



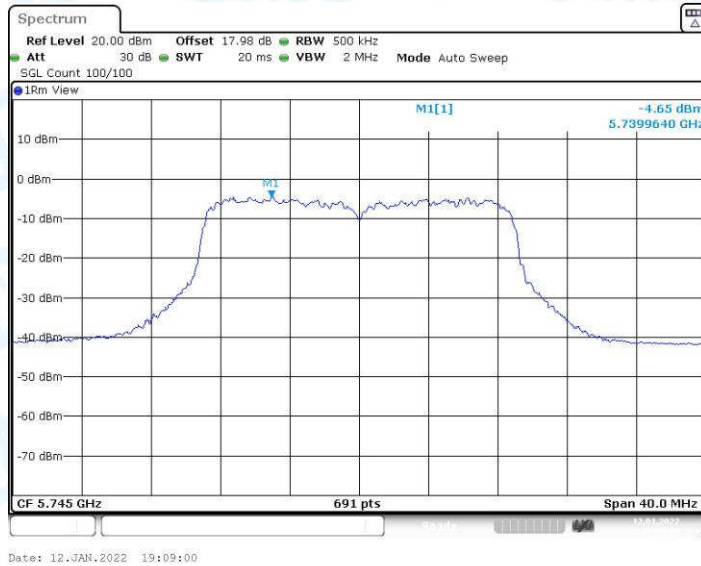
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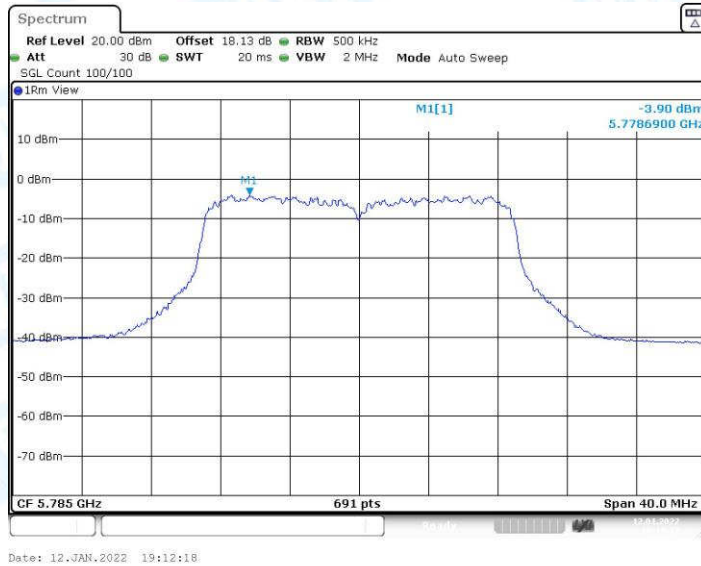
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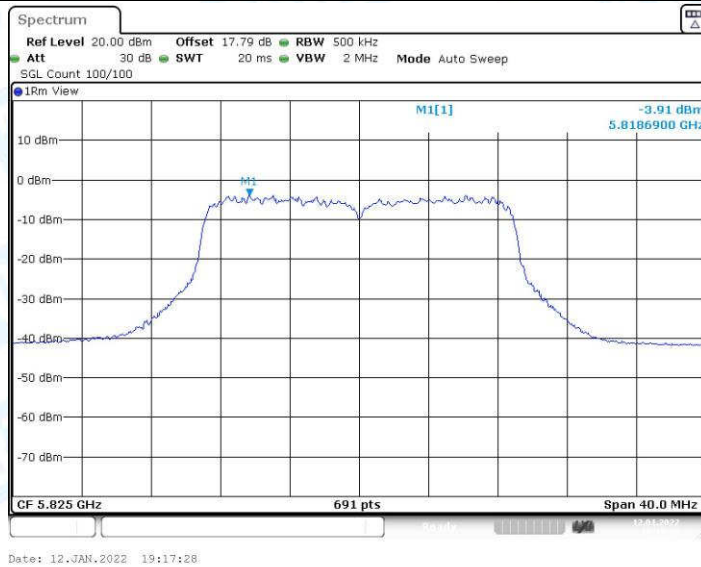
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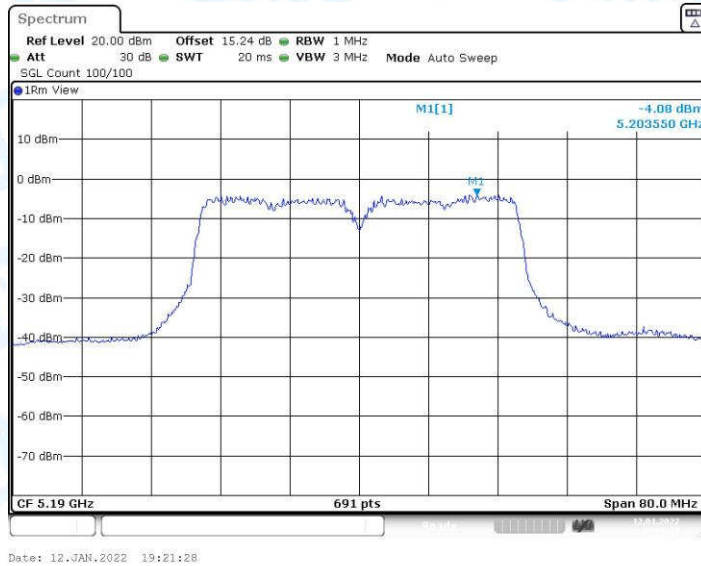
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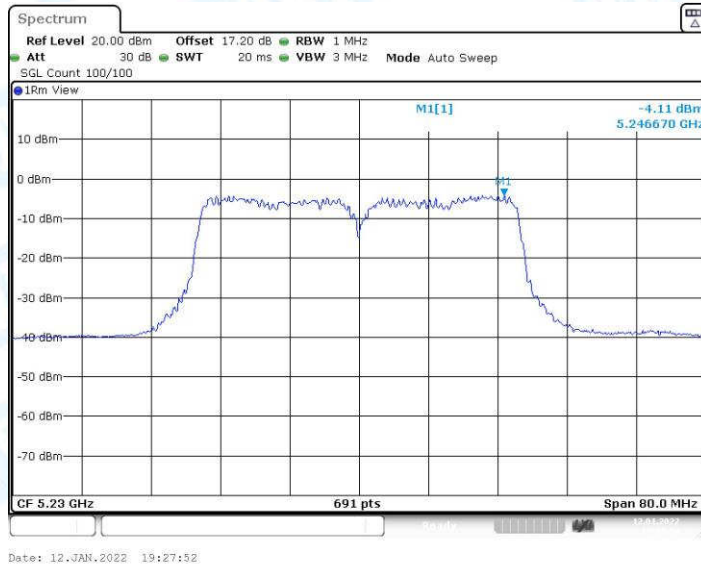
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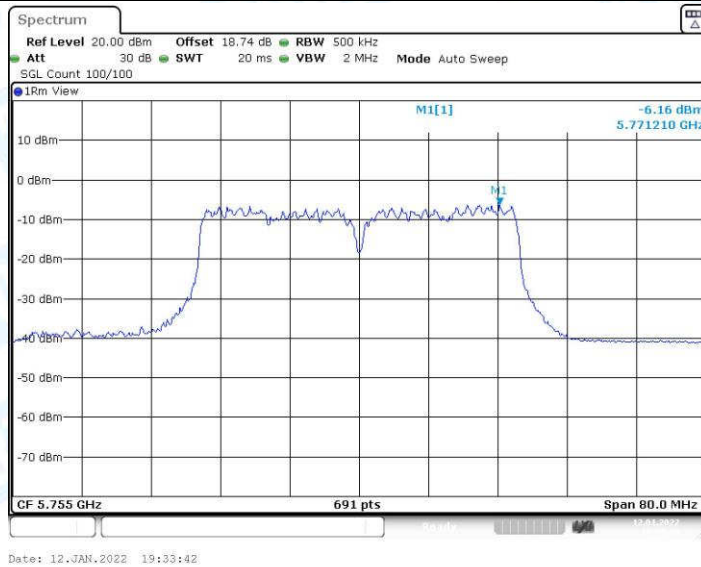
11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755