

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

General Description of EUT	
Product Name:	SKIN CONNECT, META PROFILER, BIOSCAN, SKINSNAP
Test Model:	SK-01
Sample ID:	202210-0079-20-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC 3.6V
Test Engineer:	YANZHENMING
Note: For a more detailed features description, please refer to the report TBR-C-202210-0079-24	

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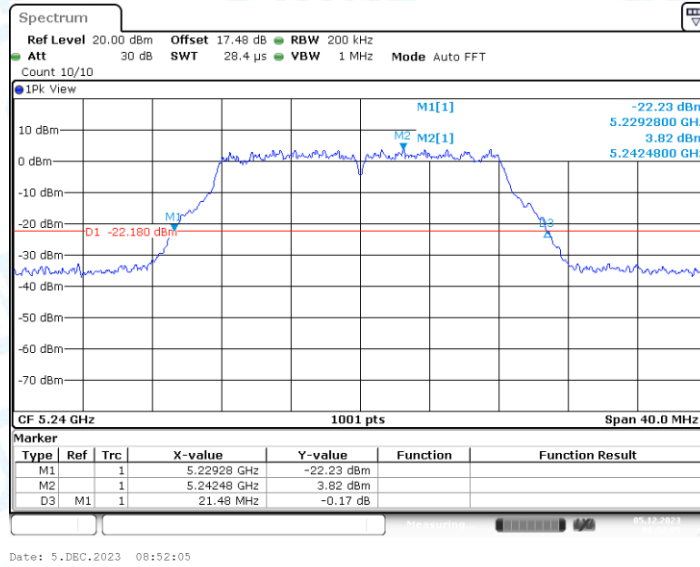
1. Emission Bandwidth

1.1. Test Result

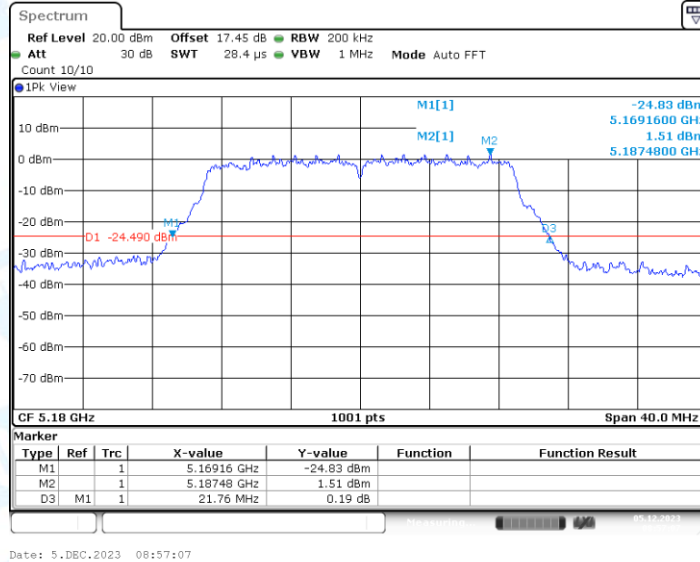
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.60	5169.20	5190.80	---	---
		5200	21.56	5189.20	5210.76	---	---
		5240	21.48	5229.28	5250.76	---	---
11N20SISO	Ant1	5180	21.76	5169.16	5190.92	---	---
		5200	21.76	5189.16	5210.92	---	---
		5240	21.96	5229.12	5251.08	---	---
11N40SISO	Ant1	5190	40.64	5169.60	5210.24	---	---
		5230	40.24	5209.92	5250.16	---	---
11AC20SISO	Ant1	5180	21.80	5169.20	5191.00	---	---
		5200	21.72	5189.16	5210.88	---	---
		5240	21.96	5229.12	5251.08	---	---
11AC40SISO	Ant1	5190	40.56	5169.76	5210.32	---	---
		5230	40.32	5209.92	5250.24	---	---
11AC80SISO	Ant1	5210	81.44	5169.84	5251.28	---	---

2.1. Test Graphs

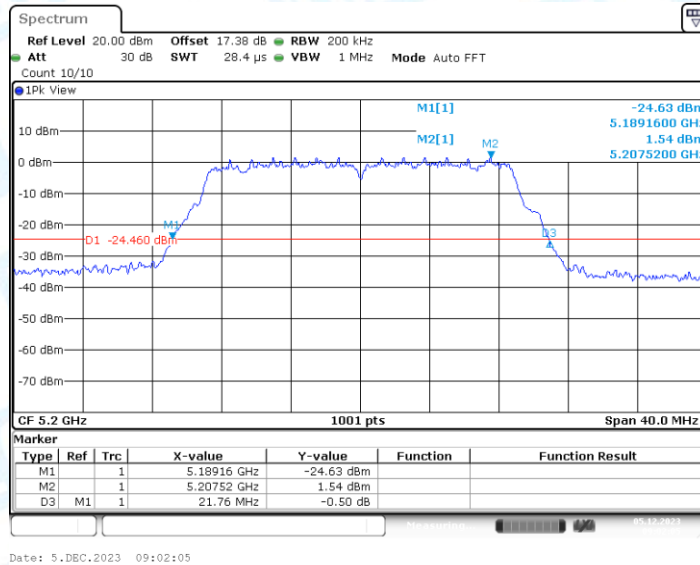




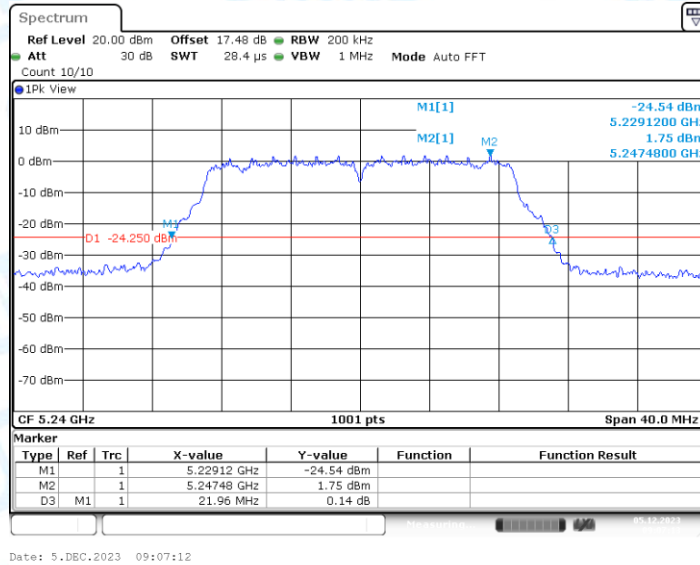
11N20SISO_Ant1_5180



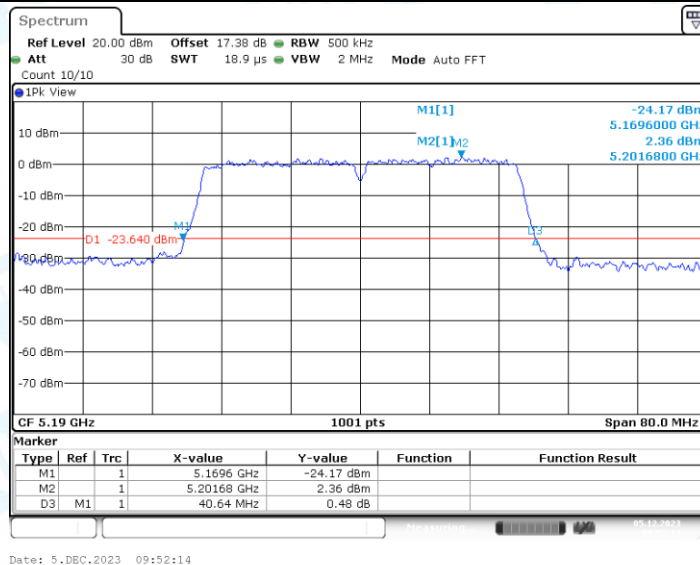
11N20SISO_Ant1_5200



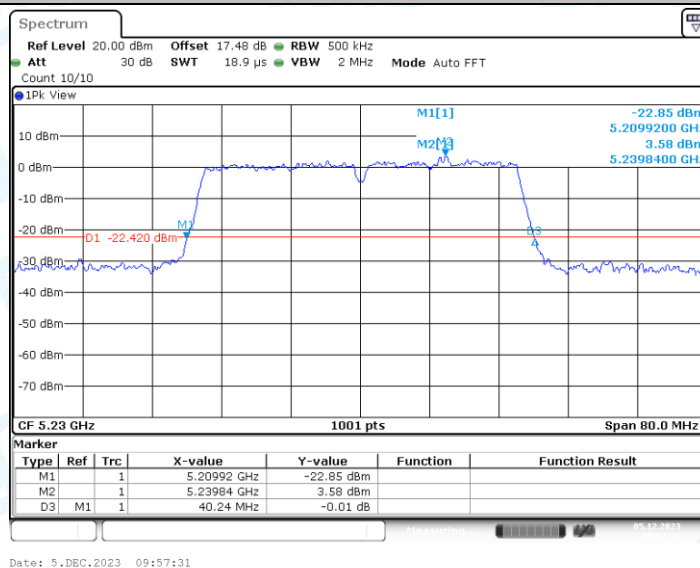
11N20SISO_Ant1_5240



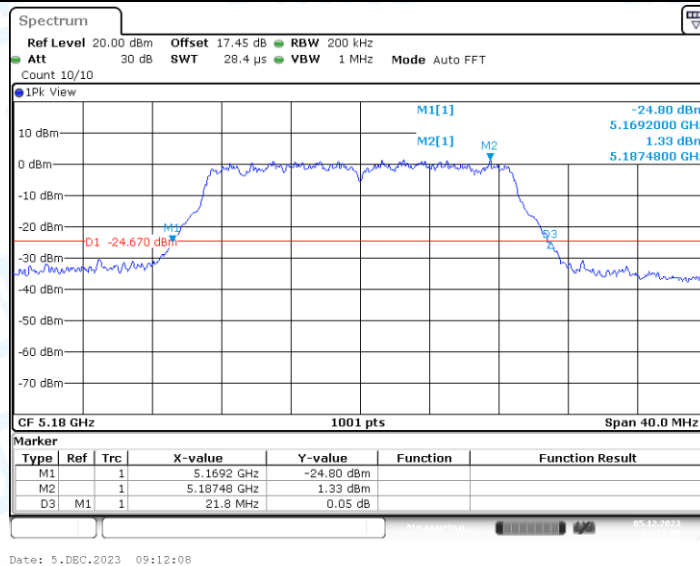
11N40SISO_Ant1_5190



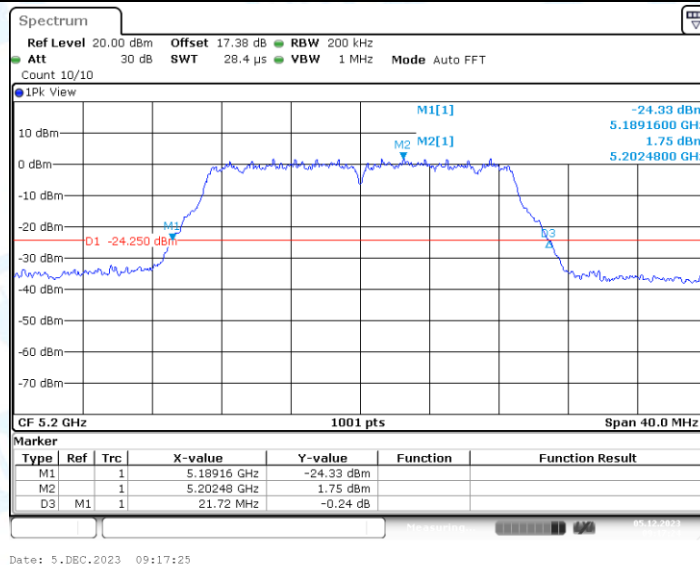
11N40SISO_Ant1_5230



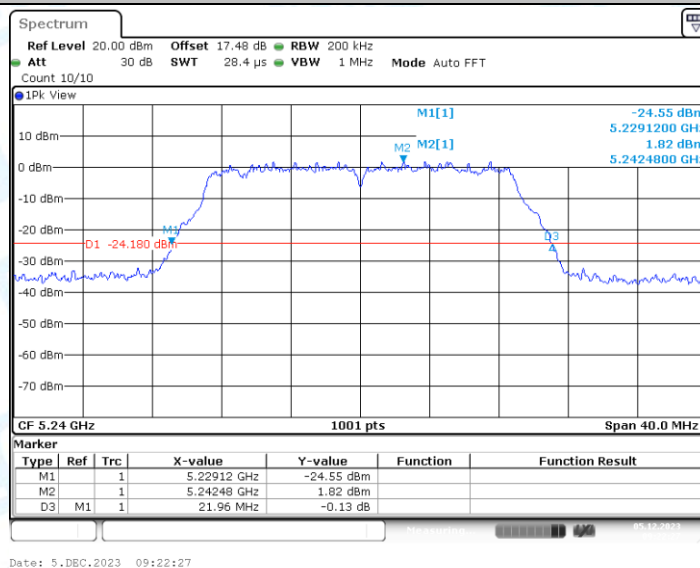
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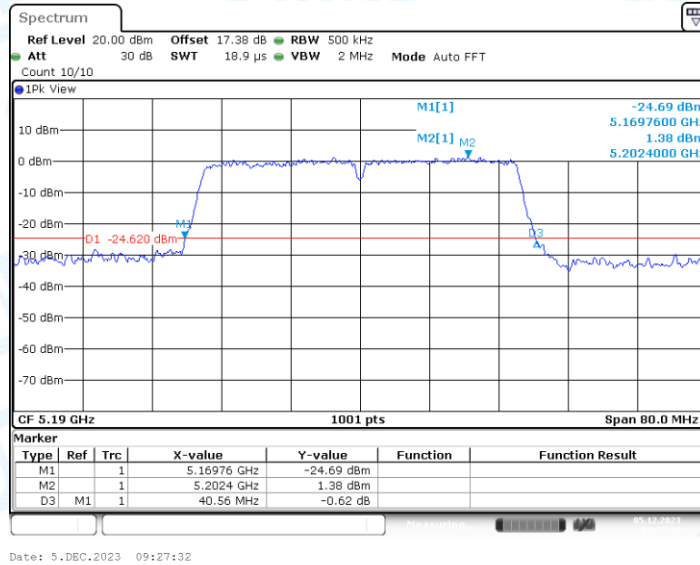
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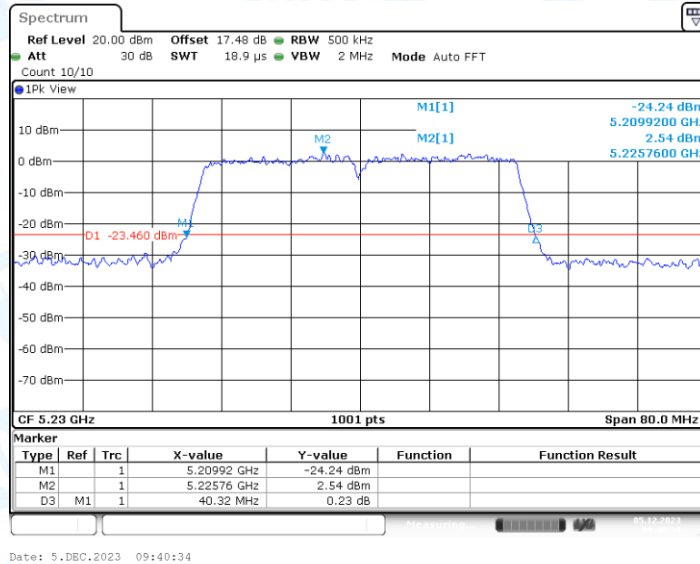
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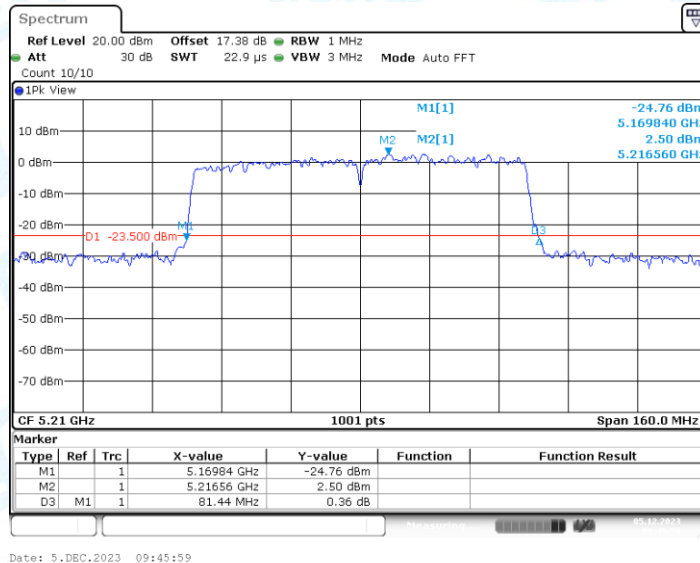
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



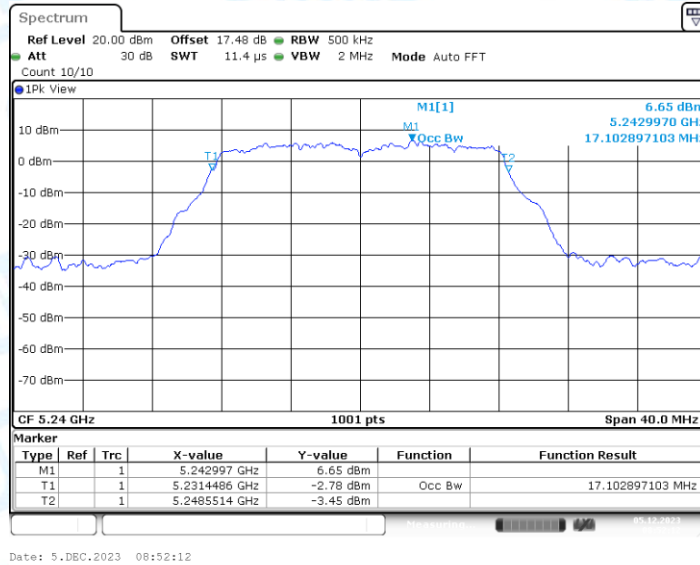
2. Occupied channel bandwidth

2.1. Test Result

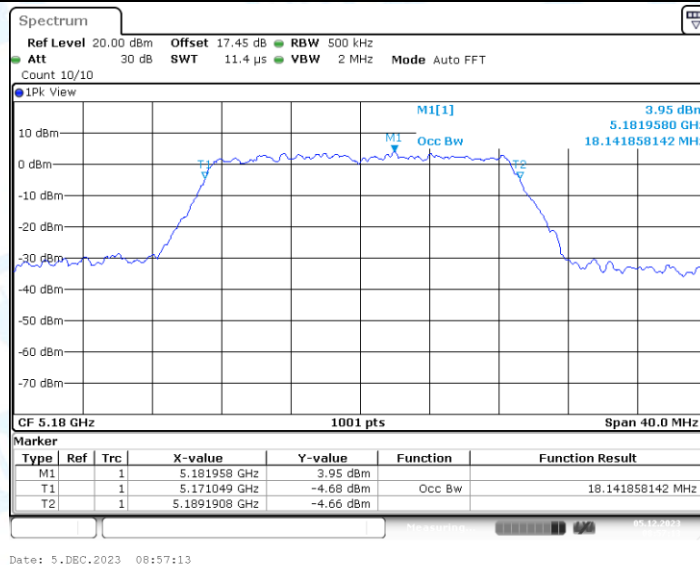
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.702	5171.2488	5188.9510	---	---
		5200	17.502	5191.2488	5208.7512	---	---
		5240	17.103	5231.4486	5248.5514	---	---
11N20SISO	Ant1	5180	18.142	5171.0490	5189.1908	---	---
		5200	18.661	5190.6494	5209.3107	---	---
		5240	18.222	5230.7293	5248.9510	---	---
11N40SISO	Ant1	5190	36.444	5171.8581	5208.3017	---	---
		5230	36.523	5211.7782	5248.3017	---	---
11AC20SISO	Ant1	5180	18.422	5170.9690	5189.3906	---	---
		5200	18.821	5190.3297	5209.1508	---	---
		5240	18.541	5230.7293	5249.2707	---	---
11AC40SISO	Ant1	5190	36.523	5171.8581	5208.3816	---	---
		5230	36.523	5211.8581	5248.3816	---	---
11AC80SISO	Ant1	5210	76.084	5172.2777	5248.3616	---	---

2.2. Test Graphs

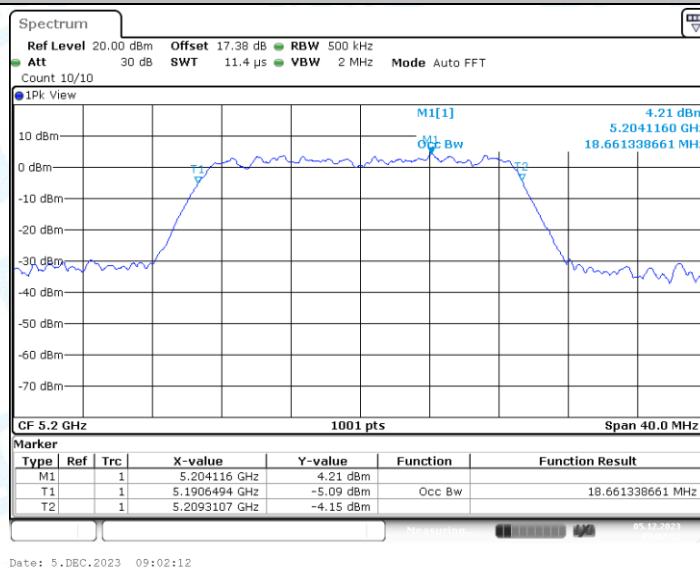




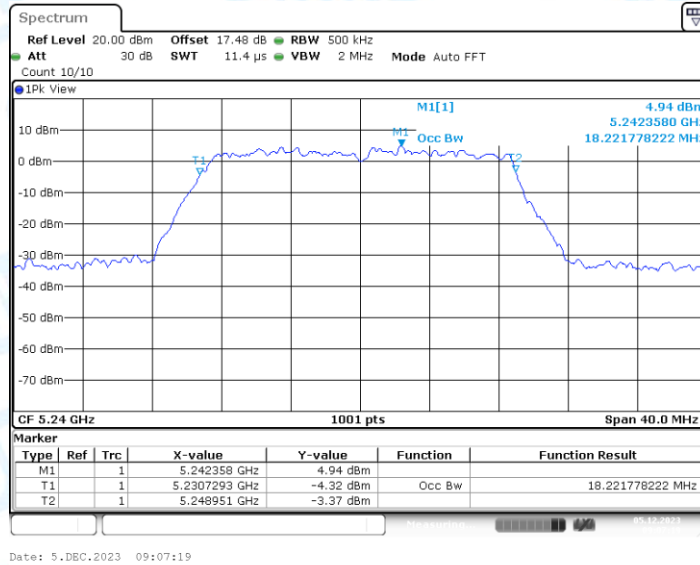
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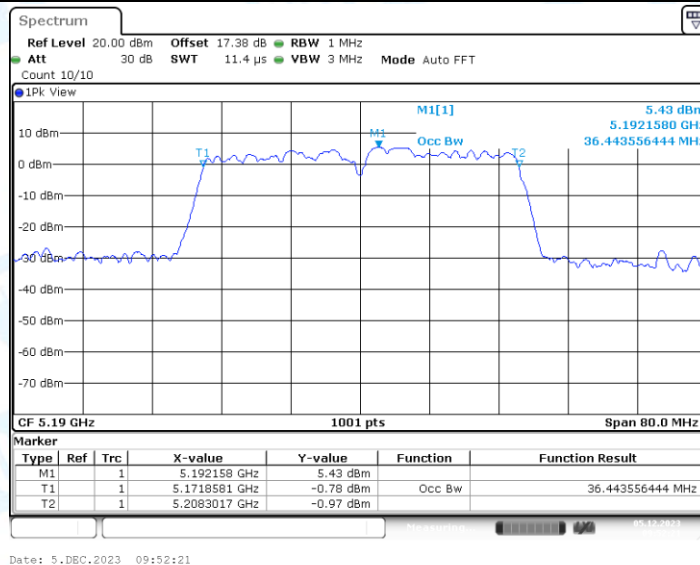
11N20SISO_Ant1_5200



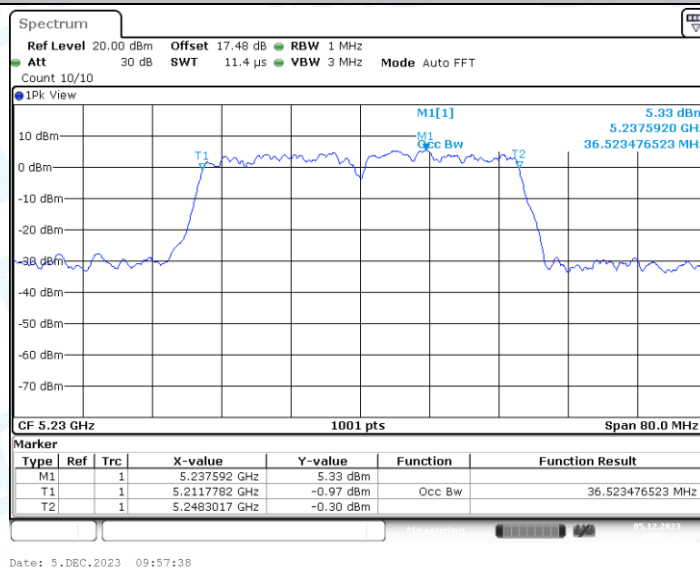
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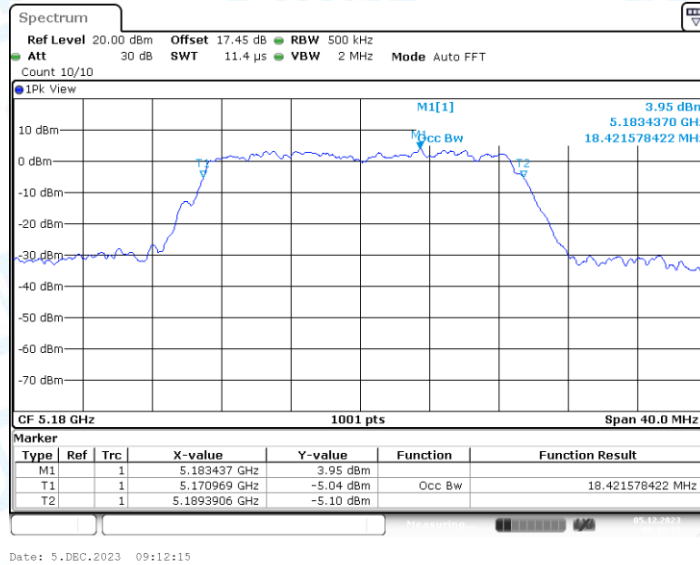
11N40SISO_Ant1_5190



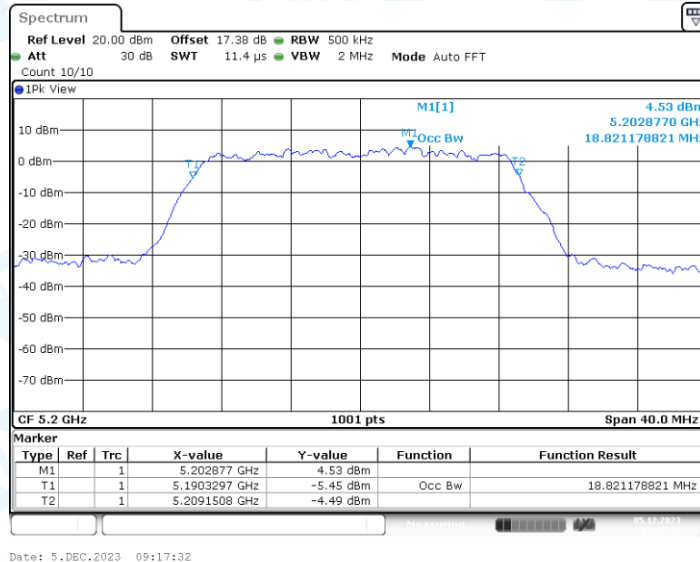
11N40SISO_Ant1_5230



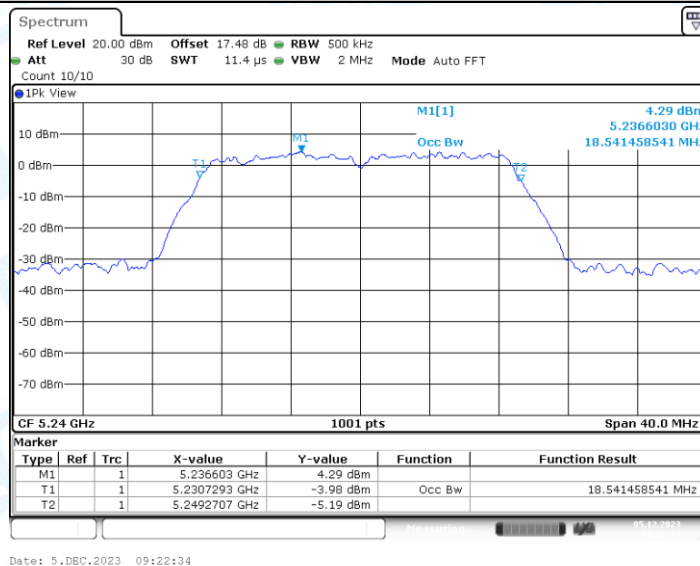
11AC20SISO_Ant1_5180



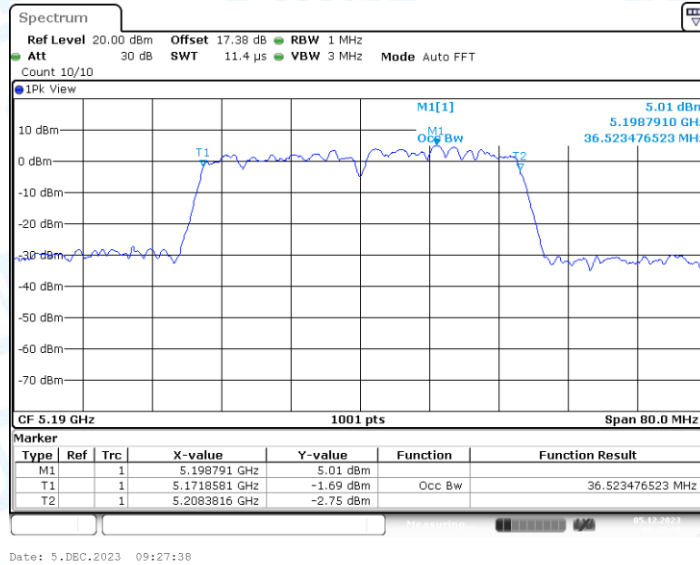
11AC20SISO_Ant1_5200



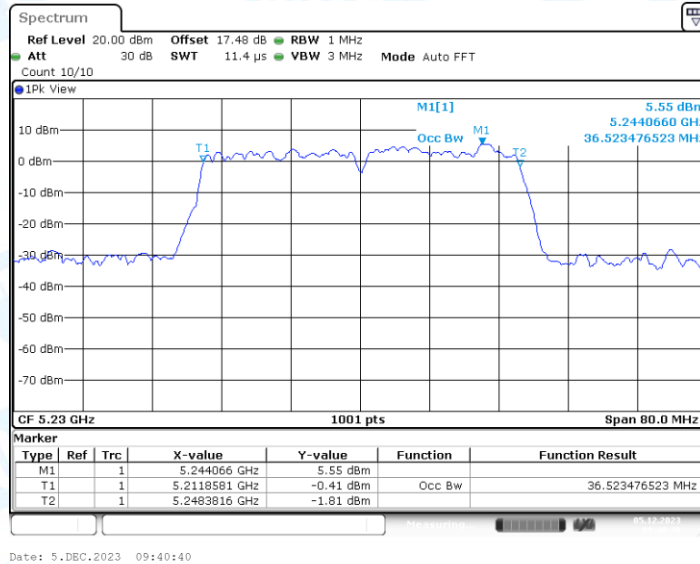
11AC20SISO_Ant1_5240



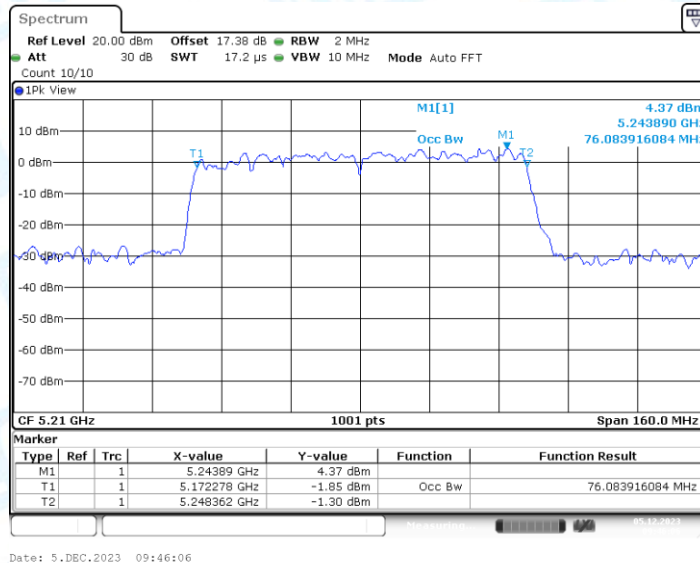
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



3. Maximum conducted output power

3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	EIRP[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	13.67	≤23.98	15.36	≤23.01	PASS
		5200	13.64	≤23.98	15.33	≤23.01	PASS
		5240	13.67	≤23.98	15.36	≤23.01	PASS
11N20SISO	Ant1	5180	11.20	≤23.98	12.89	≤23.01	PASS
		5200	11.44	≤23.98	13.13	≤23.01	PASS
		5240	11.69	≤23.98	13.38	≤23.01	PASS
11N40SISO	Ant1	5190	11.96	≤23.98	13.65	≤23.01	PASS
		5230	12.15	≤23.98	13.84	≤23.01	PASS
11AC20SISO	Ant1	5180	11.16	≤23.98	12.85	≤23.01	PASS
		5200	11.68	≤23.98	13.37	≤23.01	PASS
		5240	11.52	≤23.98	13.21	≤23.01	PASS
11AC40SISO	Ant1	5190	11.16	≤23.98	12.85	≤23.01	PASS
		5230	11.97	≤23.98	13.66	≤23.01	PASS
11AC80SISO	Ant1	5210	11.91	≤23.98	13.60	≤23.01	PASS

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

4. Maximum power spectral density

4.1. Test Result

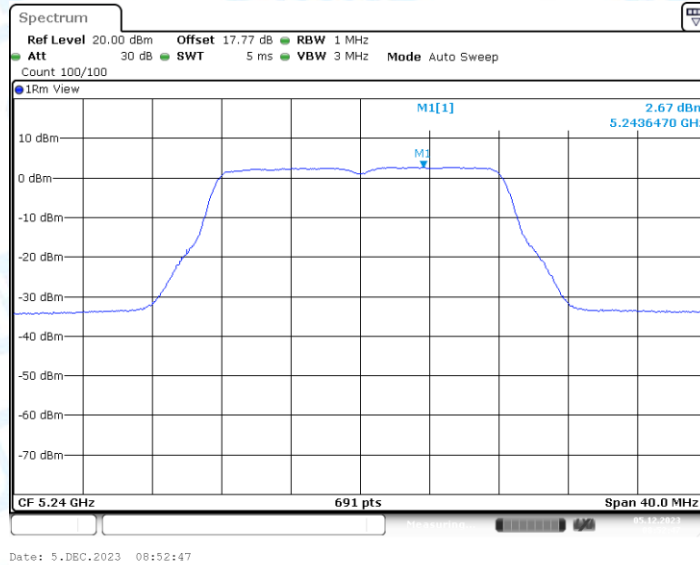
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	3.07	≤11.00	4.76	≤10.00	PASS
		5200	2.85	≤11.00	4.54	≤10.00	PASS
		5240	2.67	≤11.00	4.36	≤10.00	PASS
11N20SISO	Ant1	5180	-0.03	≤11.00	1.66	≤10.00	PASS
		5200	0.16	≤11.00	1.85	≤10.00	PASS
		5240	0.12	≤11.00	1.81	≤10.00	PASS
11N40SISO	Ant1	5190	-2.06	≤11.00	-0.37	≤10.00	PASS
		5230	-1.99	≤11.00	-0.3	≤10.00	PASS
11AC20SISO	Ant1	5180	-0.12	≤11.00	1.57	≤10.00	PASS
		5200	0.43	≤11.00	2.12	≤10.00	PASS
		5240	0.27	≤11.00	1.96	≤10.00	PASS
11AC40SISO	Ant1	5190	-2.79	≤11.00	-1.10	≤10.00	PASS
		5230	-2.31	≤11.00	-0.62	≤10.00	PASS
11AC80SISO	Ant1	5210	-4.82	≤11.00	-3.13	≤10.00	PASS

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

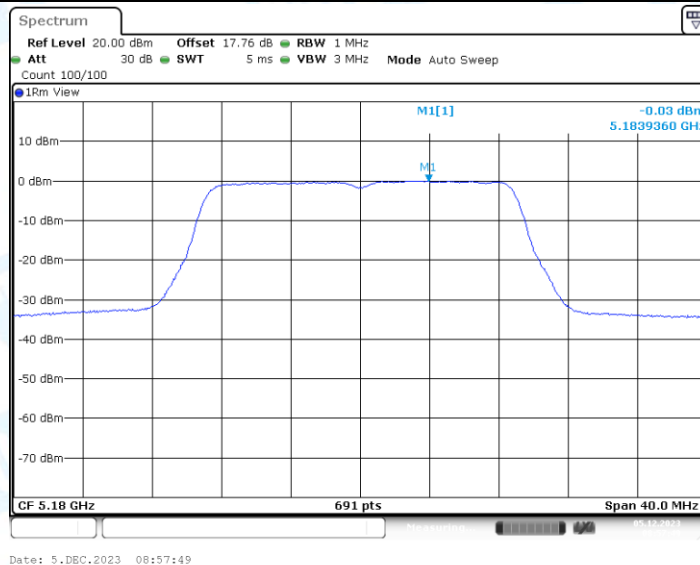
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

4.2. Test Graphs

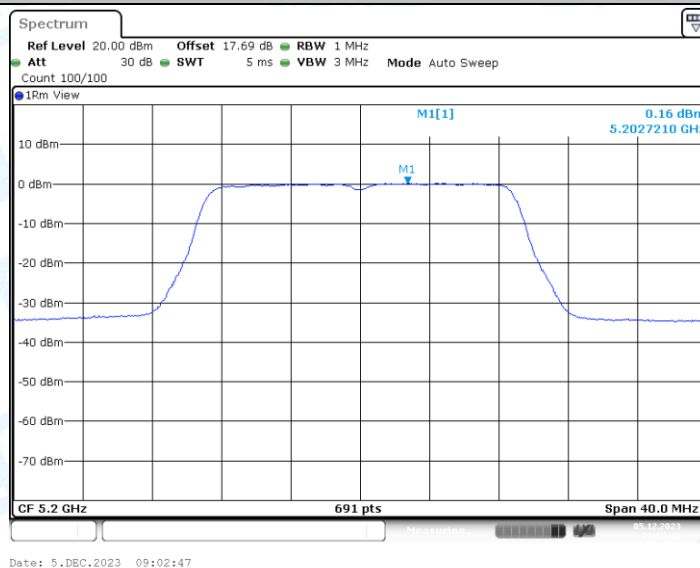




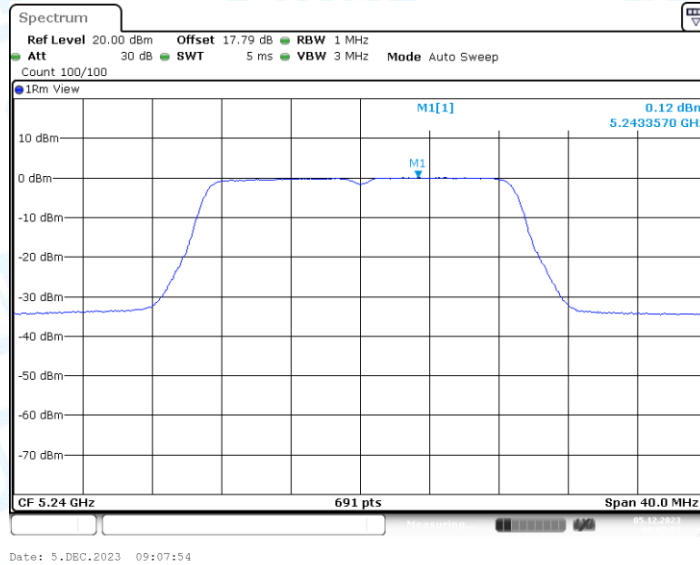
11N20SISO_Ant1_5180



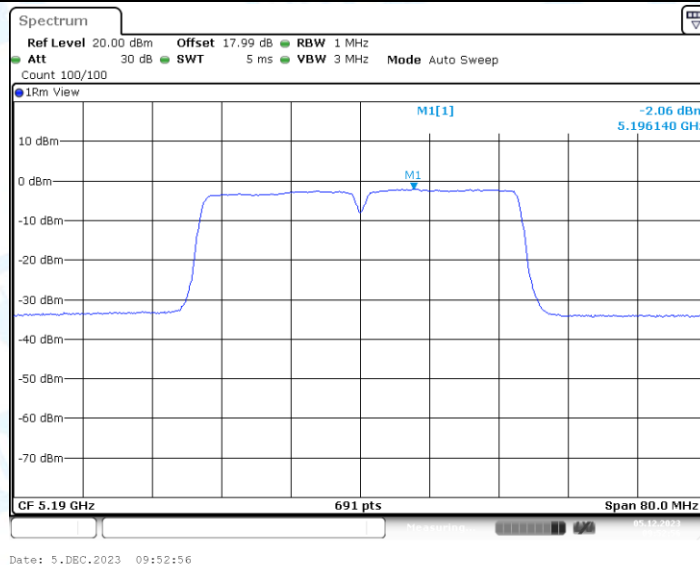
11N20SISO_Ant1_5200



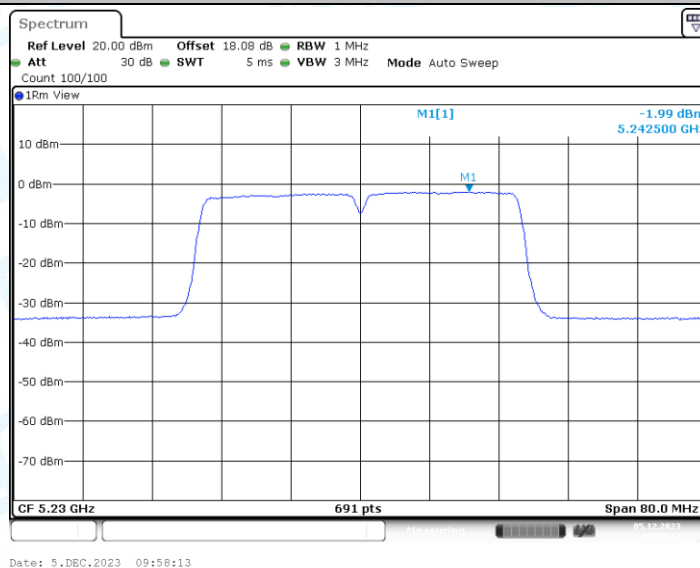
11N20SISO_Ant1_5240



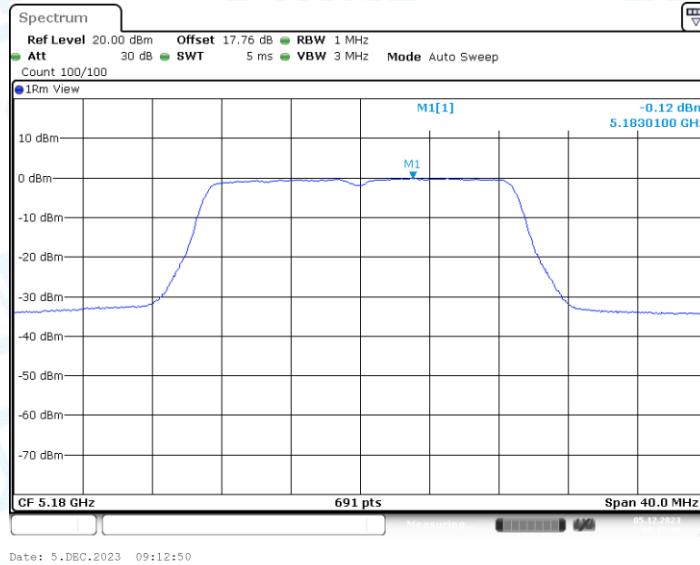
11N40SISO_Ant1_5190



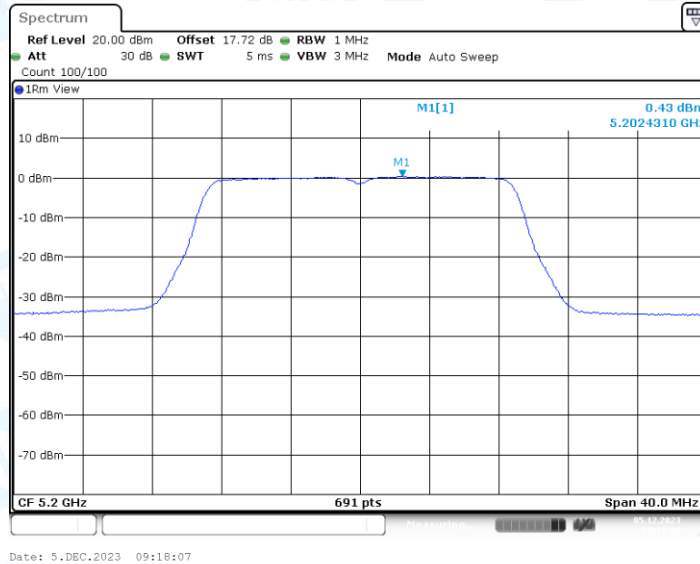
11N40SISO_Ant1_5230



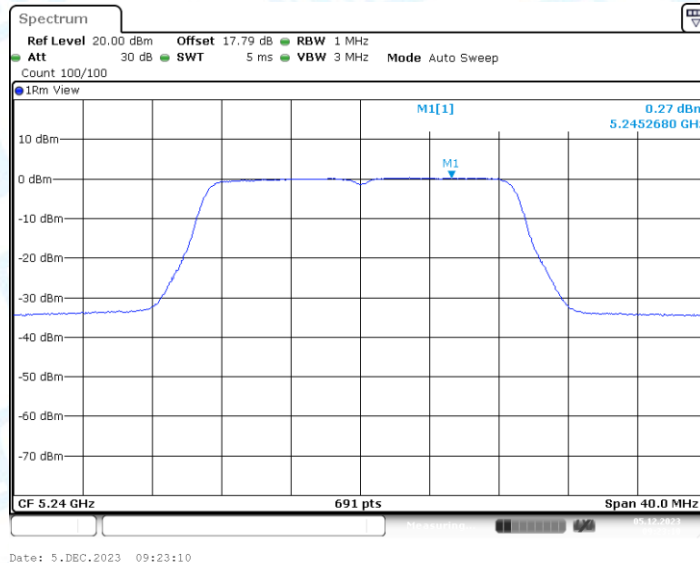
11AC20SISO_Ant1_5180



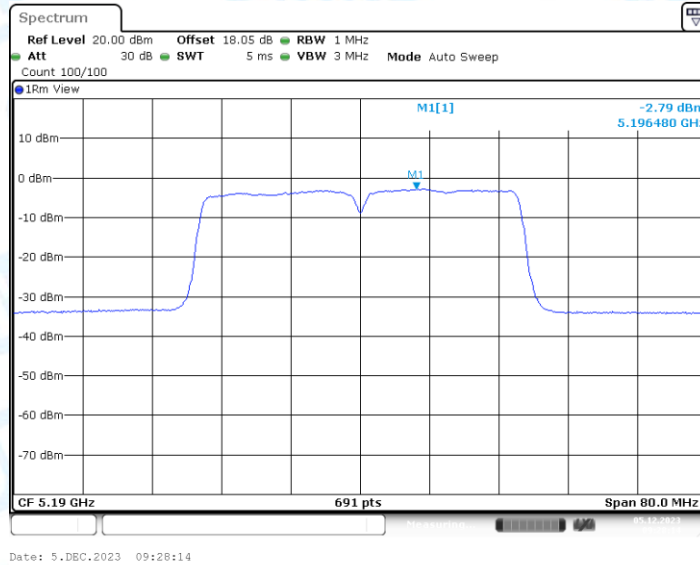
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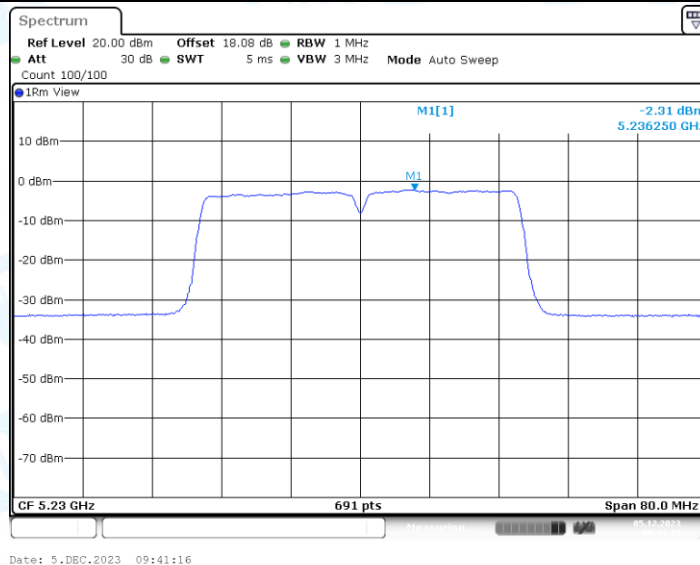
11AC20SISO_Ant1_5240



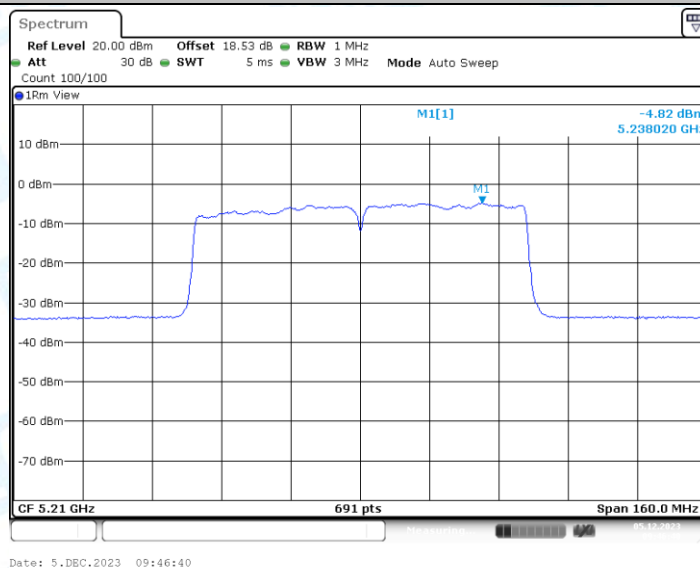
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

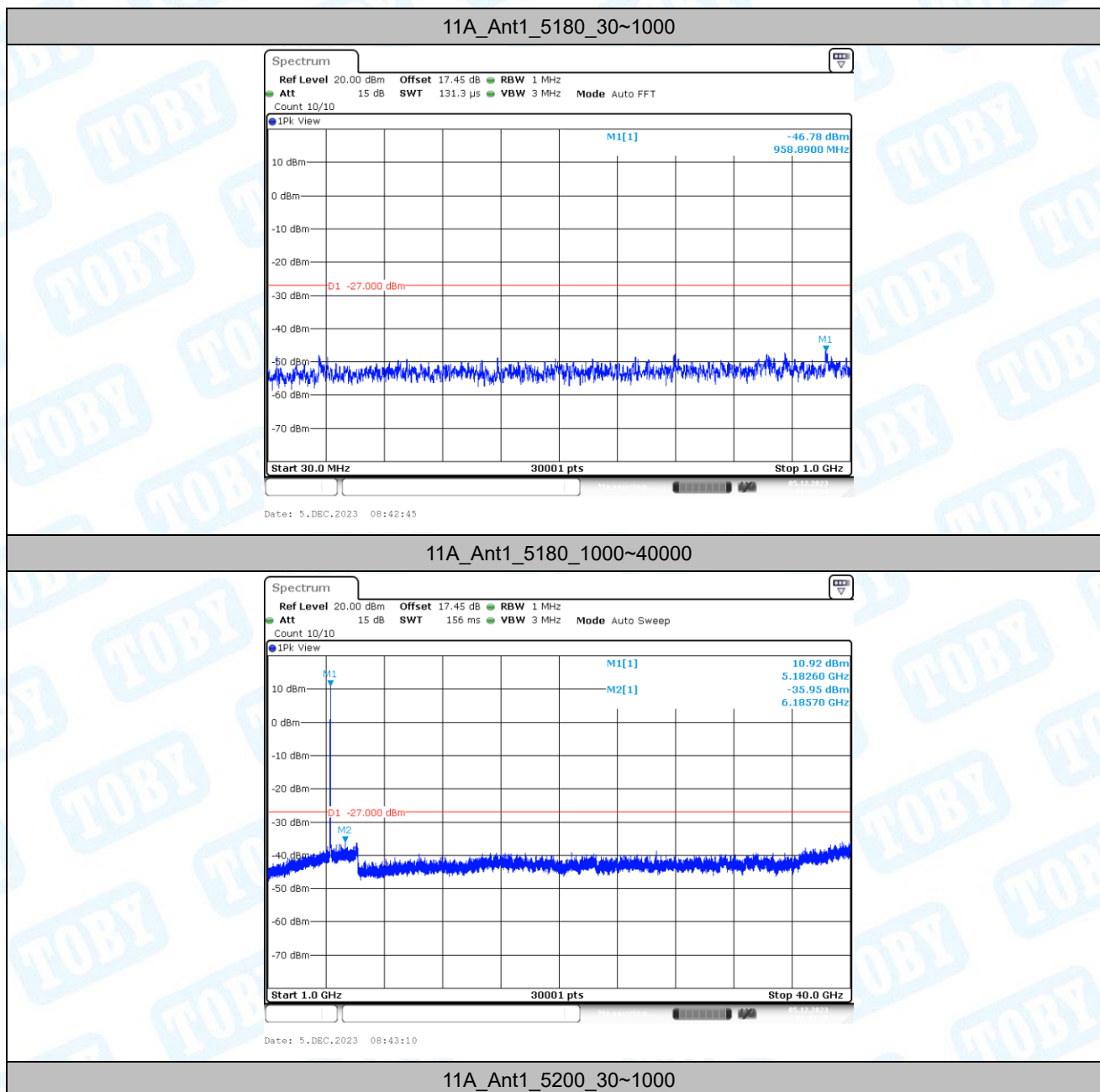


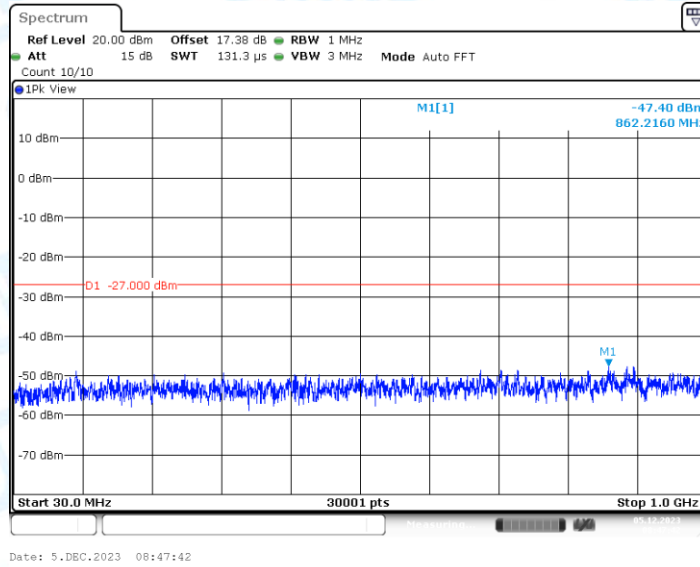
5. Conducted Spurious Emission

5.1. Test Result

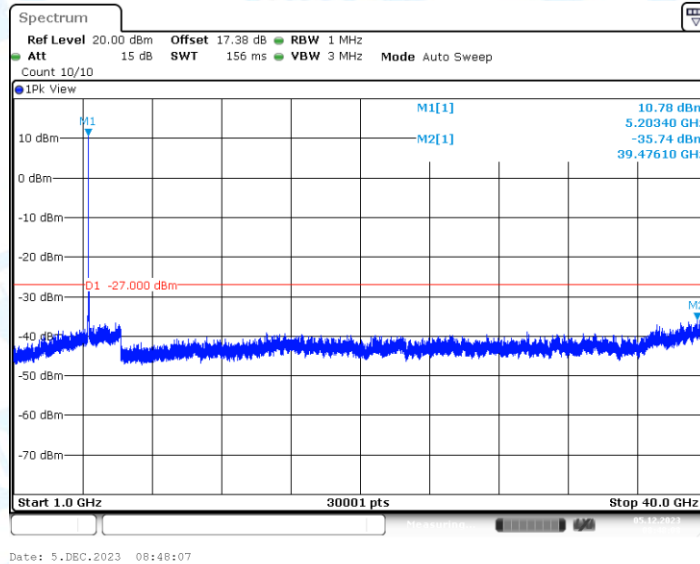
TestMode	Antenna	Channel	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~1000	958.89	-46.78	≤-27	PASS
			1000~40000	6185.7	-35.95	≤-27	PASS
		5200	30~1000	862.22	-47.4	≤-27	PASS
			1000~40000	39476.1	-35.74	≤-27	PASS
		5240	30~1000	889.02	-45.88	≤-27	PASS
			1000~40000	6980	-35.82	≤-27	PASS
11N20SISO	Ant1	5180	30~1000	960.31	-46.75	≤-27	PASS
			1000~40000	6174	-35.72	≤-27	PASS
		5200	30~1000	964.26	-47.26	≤-27	PASS
			1000~40000	39600.9	-35.75	≤-27	PASS
		5240	30~1000	892.93	-47.55	≤-27	PASS
			1000~40000	39656.8	-35.84	≤-27	PASS
11N40SISO	Ant1	5190	30~1000	916.28	-46.18	≤-27	PASS
			1000~40000	39979.2	-36.22	≤-27	PASS
		5230	30~1000	888.5	-46.75	≤-27	PASS
			1000~40000	39612.6	-35.91	≤-27	PASS
11AC20SISO	Ant1	5180	30~1000	864.32	-47.16	≤-27	PASS
			1000~40000	6898.1	-35.63	≤-27	PASS
		5200	30~1000	952.13	-47.25	≤-27	PASS
			1000~40000	38988.6	-35.89	≤-27	PASS
		5240	30~1000	863.96	-46.66	≤-27	PASS
			1000~40000	38935.3	-35.24	≤-27	PASS
11AC40SISO	Ant1	5190	30~1000	889.83	-47.95	≤-27	PASS
			1000~40000	39992.2	-35.99	≤-27	PASS
		5230	30~1000	723.38	-47.19	≤-27	PASS
			1000~40000	39318.8	-35.83	≤-27	PASS
11AC80SISO	Ant1	5210	30~1000	509.83	-48.14	≤-27	PASS
			1000~40000	39971.4	-36.35	≤-27	PASS

5.2. Test Graphs

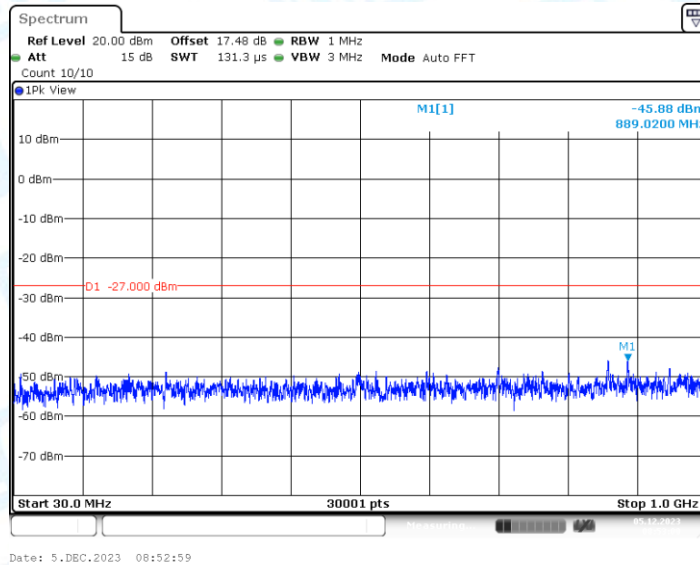




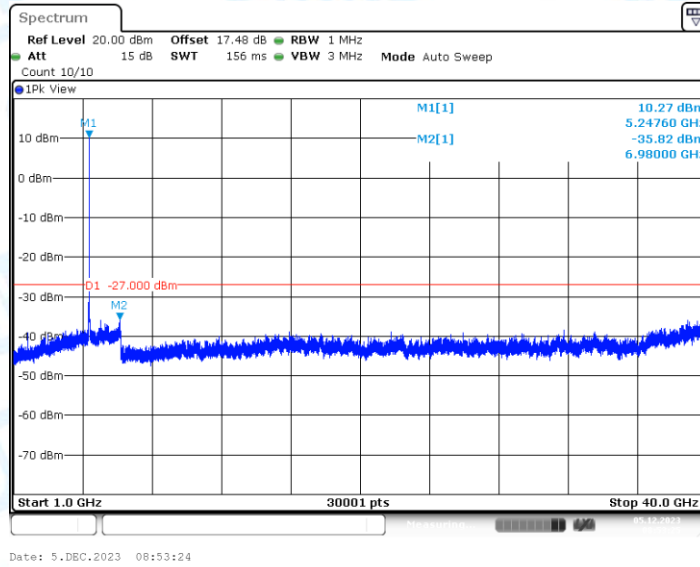
11A_Ant1_5200_1000~40000



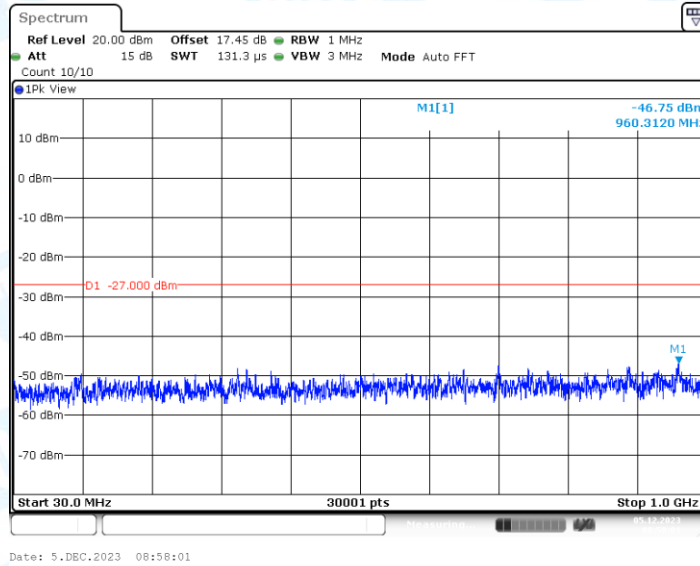
11A_Ant1_5240_30~1000



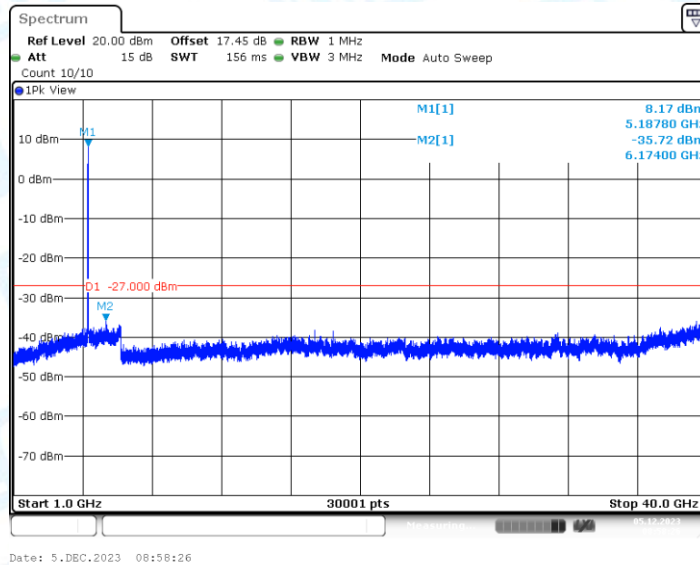
11A_Ant1_5240_1000~40000



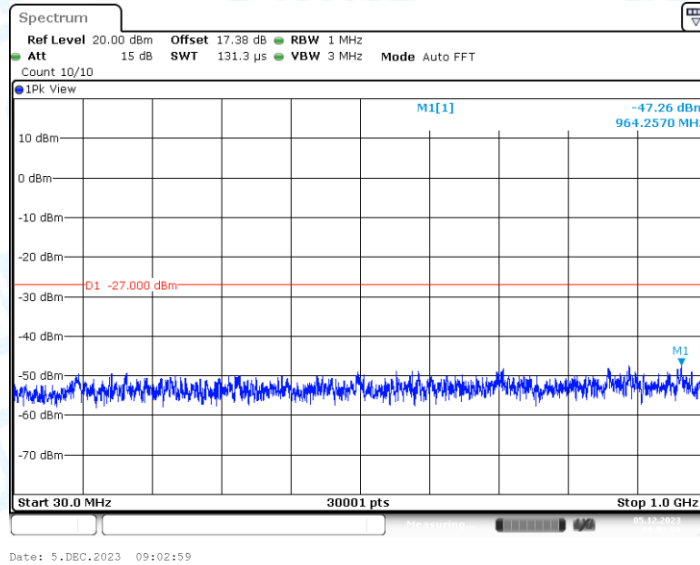
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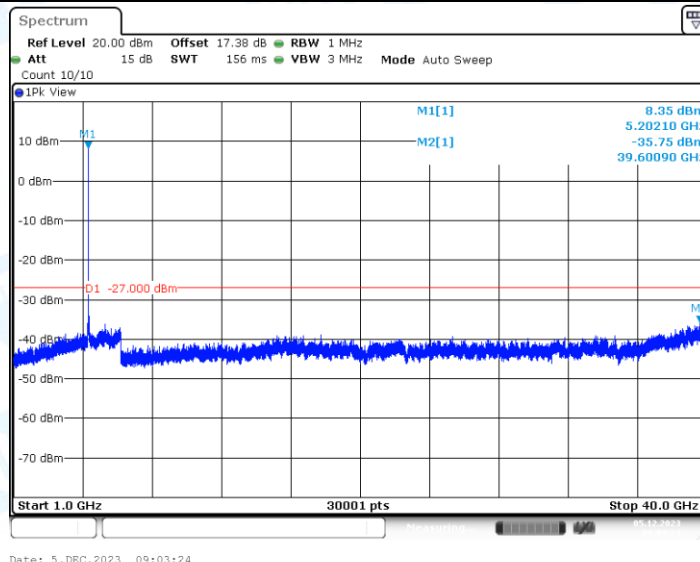
11N20SISO_Ant1_5180_1000~40000



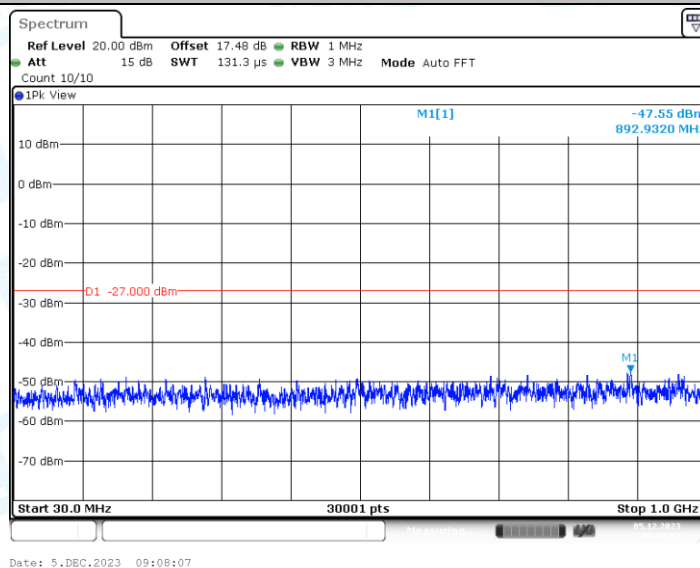
11N20SISO_Ant1_5200_30~1000



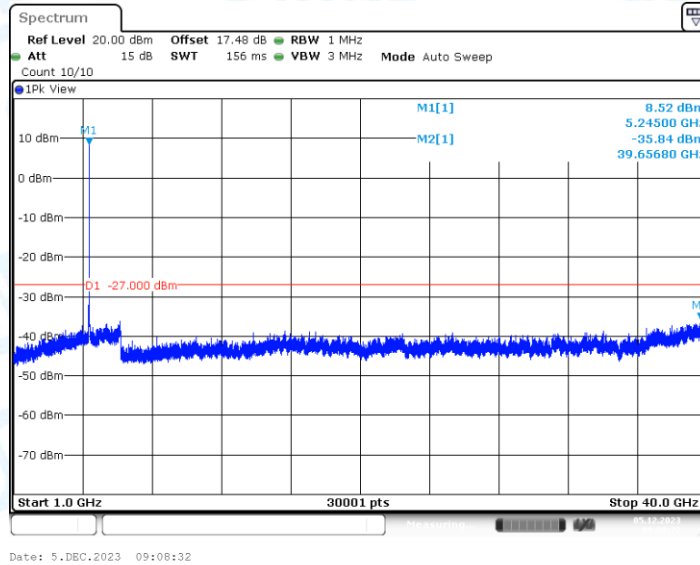
11N20SISO_Ant1_5200_1000~40000



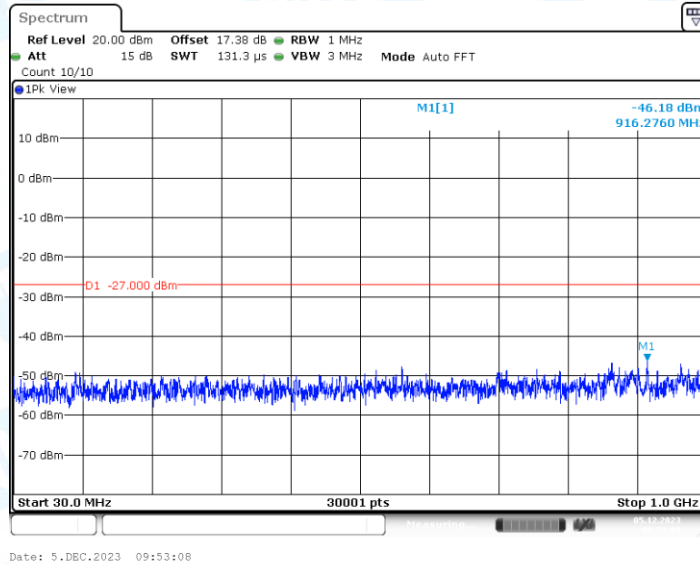
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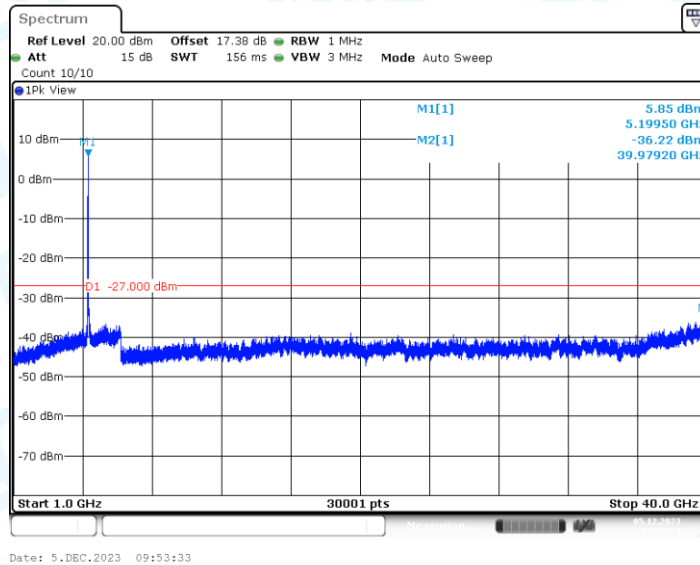
11N20SISO_Ant1_5240_1000~40000



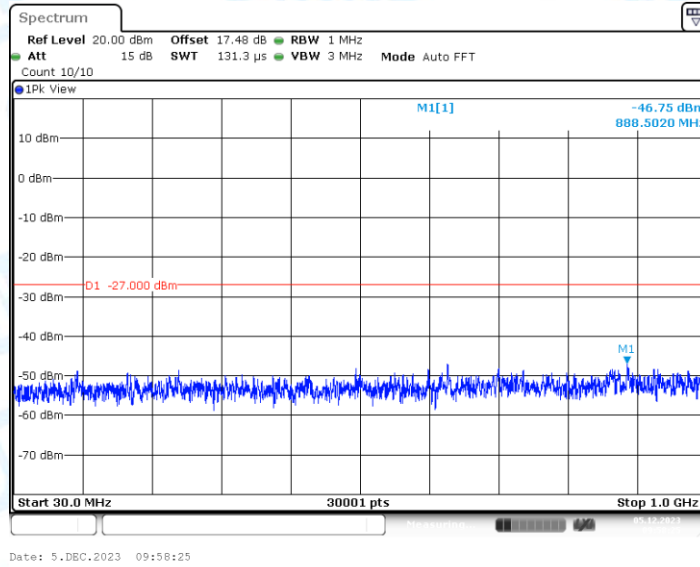
11N40SISO_Ant1_5190_30~1000



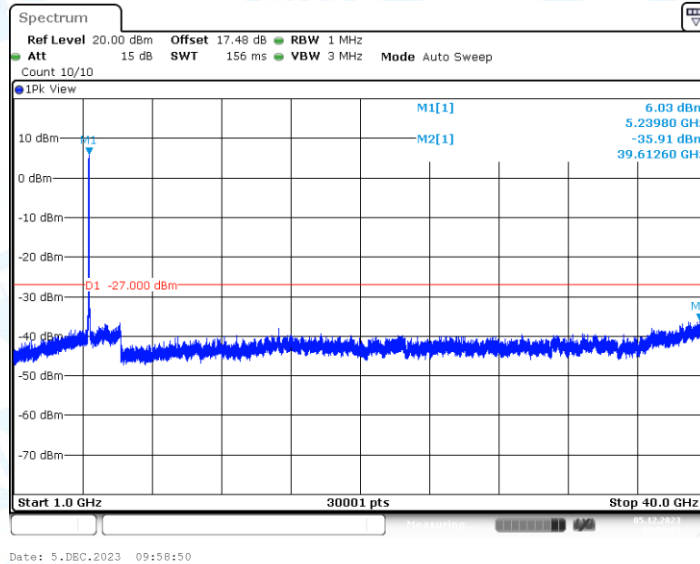
11N40SISO_Ant1_5190_1000~40000



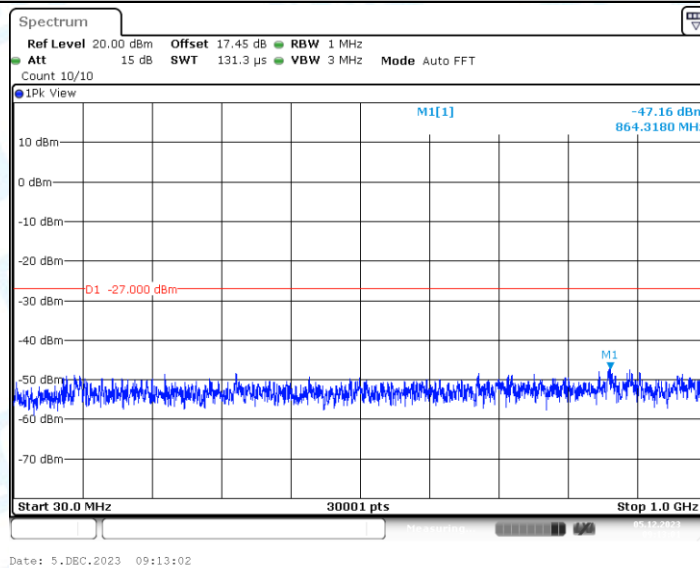
11N40SISO_Ant1_5230_30~1000



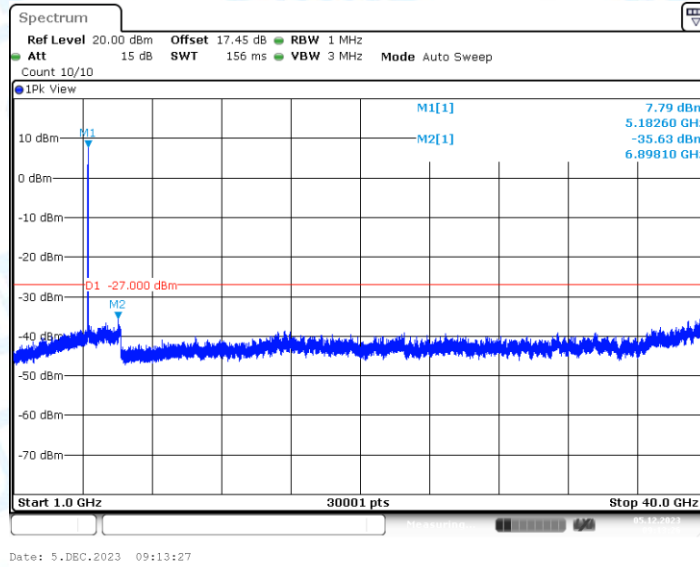
11N40SISO_Ant1_5230_1000~40000



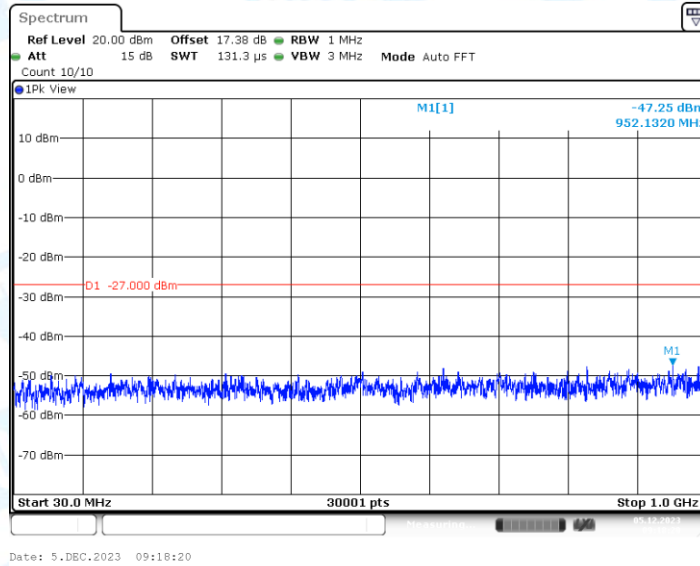
11AC20SISO_Ant1_5180_30~1000



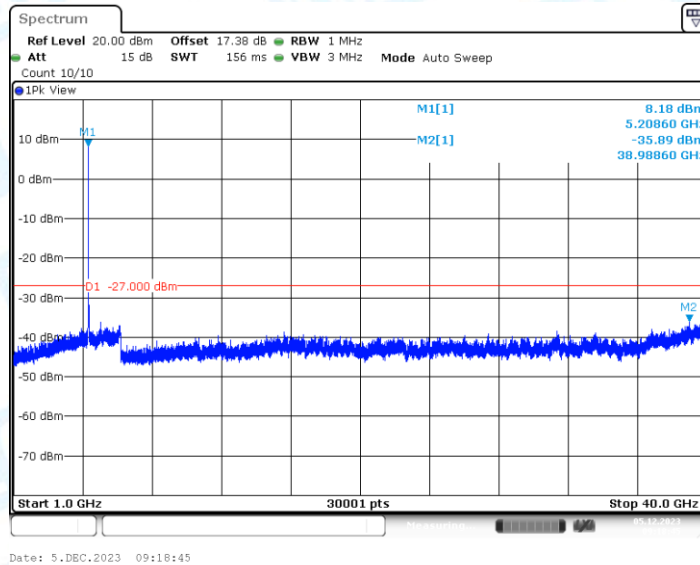
11AC20SISO_Ant1_5180_1000~40000



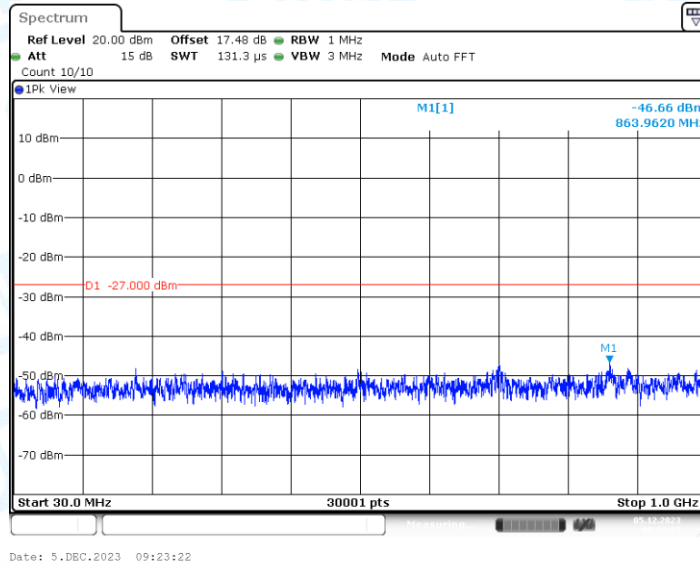
11AC20SISO_Ant1_5200_30~1000



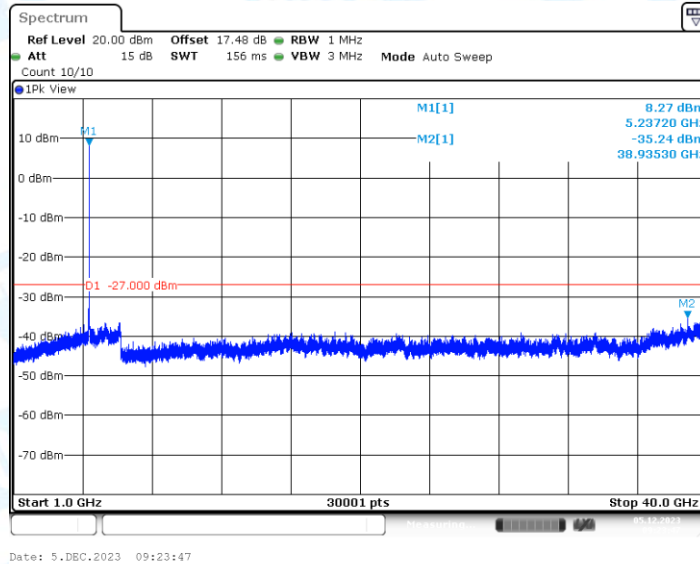
11AC20SISO_Ant1_5200_1000~40000



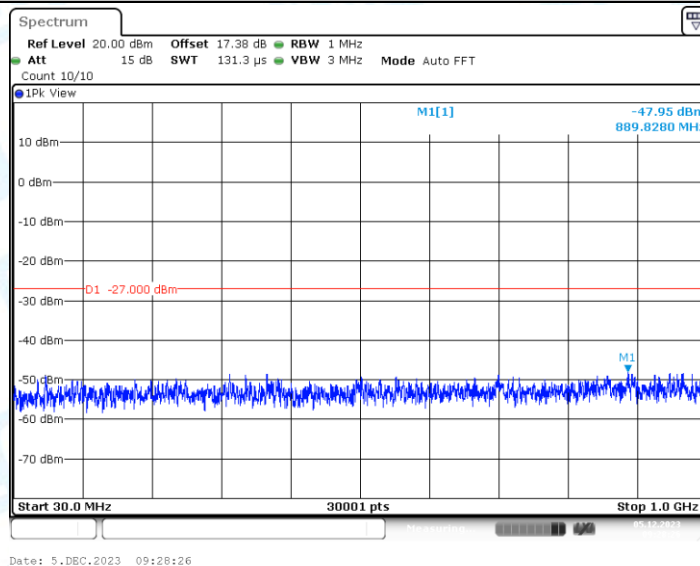
11AC20SISO_Ant1_5240_30~1000



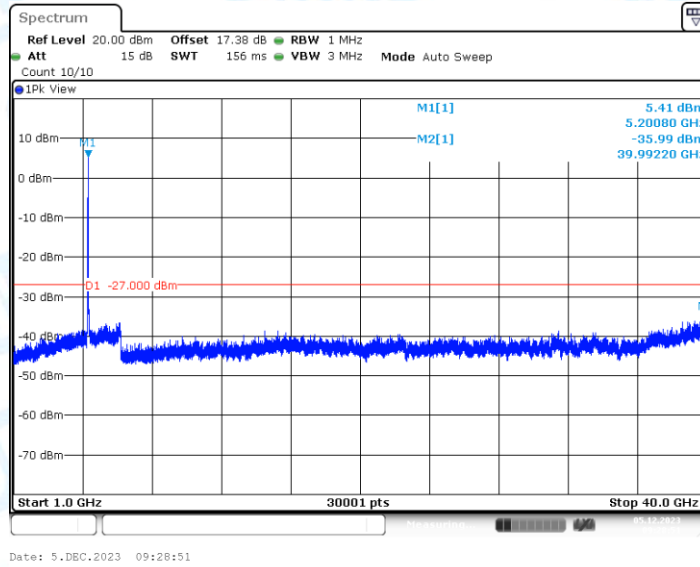
11AC20SISO_Ant1_5240_1000~40000



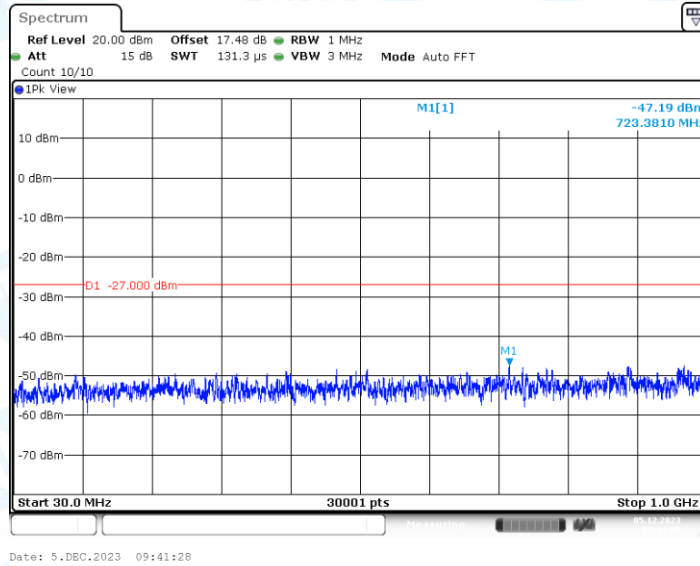
11AC40SISO_Ant1_5190_30~1000



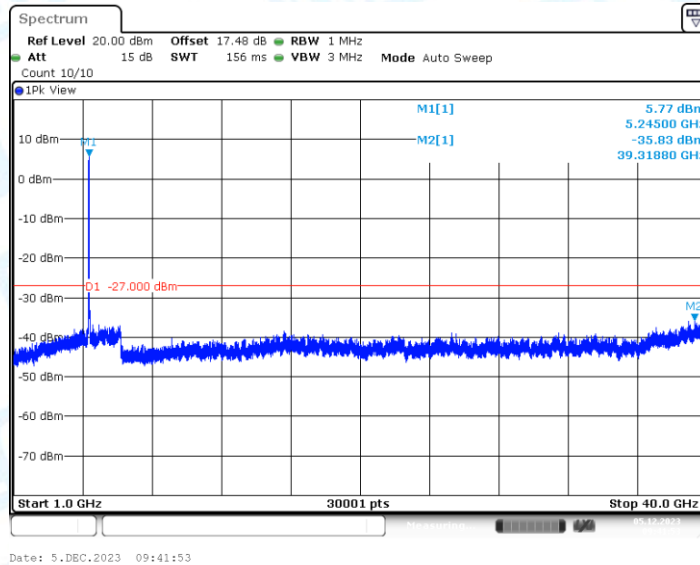
11AC40SISO_Ant1_5190_1000~40000



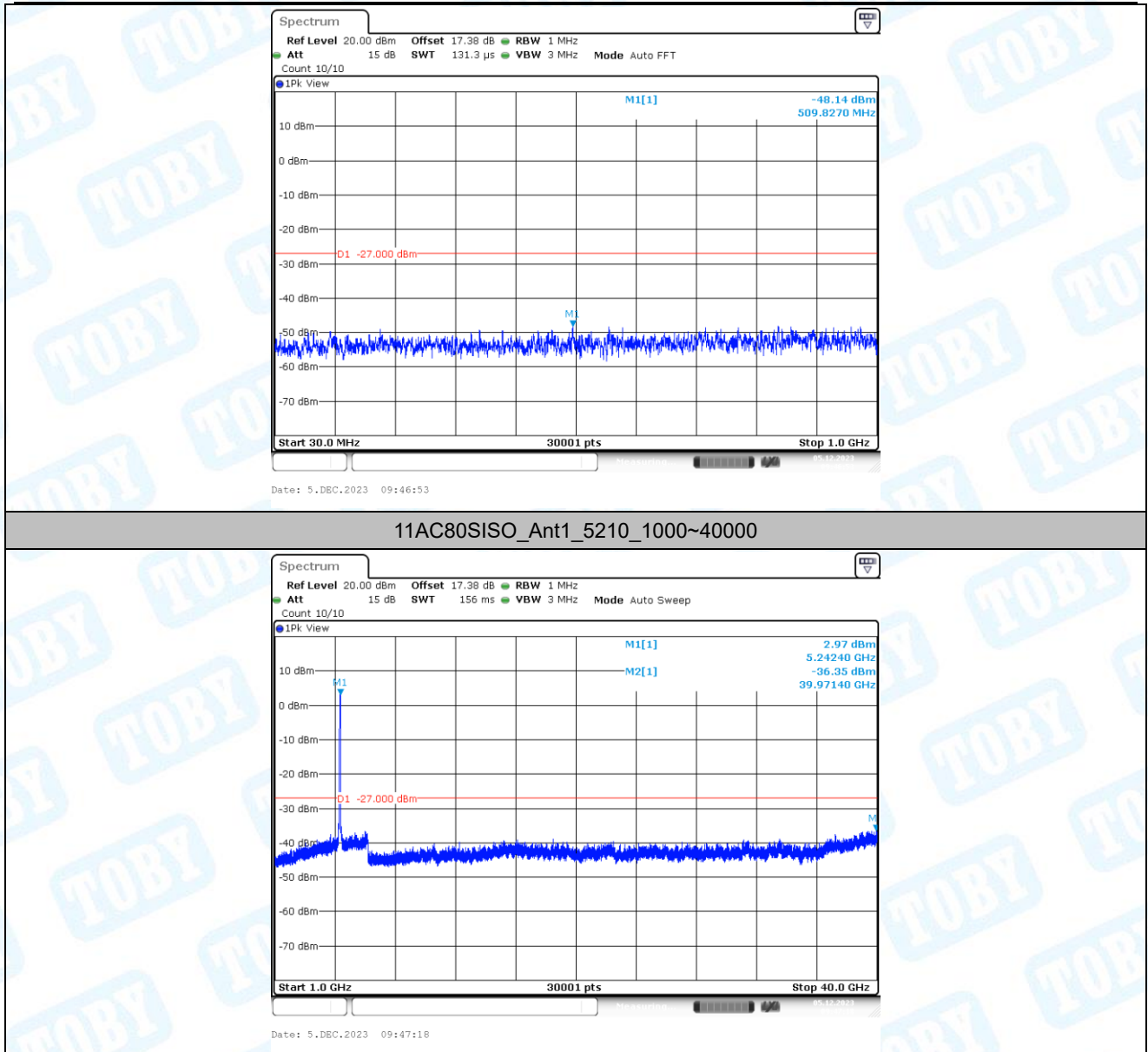
11AC40SISO_Ant1_5230_30~1000



11AC40SISO_Ant1_5230_1000~40000



11AC80SISO_Ant1_5210_30~1000



6. Frequency Stability

6.1. Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-40000.00	-7.722008	20	PASS
			LV	NT	-40000.00	-7.722008	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
		5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
11N20SISO	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
11N40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	-40000.00	-7.648184	20	PASS
11AC20SISO	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
		5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
		5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS

			HV	NT	0.00	0.000000	20	PASS
11AC80SIS O	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-40000.00	-7.722008	20	PASS
			NV	-20	-20000.00	-3.861004	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	-40000.00	-7.722008	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.861004	20	PASS
			NV	50	-40000.00	-7.722008	20	PASS
		5200	NV	-30	-20000.00	-3.846154	20	PASS
			NV	-20	-20000.00	-3.846154	20	PASS
			NV	-10	-20000.00	-3.846154	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-7.692308	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	-20000.00	-3.816794	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.816794	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
11N20SISO	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.861004	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	-20000.00	-3.861004	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

		5200	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.846154	20	PASS
			NV	-10	-20000.00	-3.846154	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.846154	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	-20000.00	-3.846154	20	PASS
			NV	40	-20000.00	-3.846154	20	PASS
			NV	50	-20000.00	-3.846154	20	PASS
		5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.816794	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.816794	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
11N40SISO	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.707129	20	PASS
			NV	50	40000.00	7.707129	20	PASS
		5230	NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	40000.00	7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.648184	20	PASS
11AC20SISO	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.861004	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	0.00	0.000000	20	PASS

		5200	NV	50	-20000.00	-3.861004	20	PASS
			NV	-30	-20000.00	-3.846154	20	PASS
			NV	-20	20000.00	3.846154	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5240	NV	-30	20000.00	3.816794	20	PASS
			NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	-20000.00	-3.816794	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC40SIS O	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.707129	20	PASS
		5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.648184	20	PASS
11AC80SIS O	Ant1	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS

			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

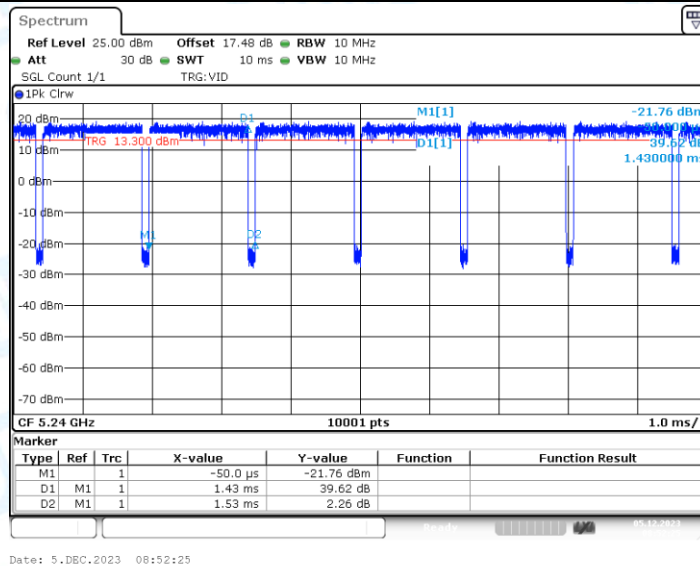
7. Duty Cycle

7.1. Test Result

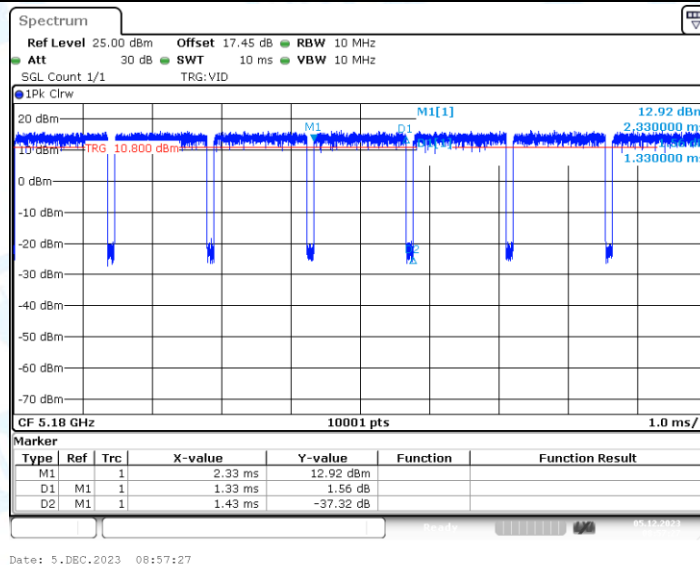
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T KHz	Verdict
11A	Ant1	5180	1.43	1.53	93.46	0.70	---
		5200	1.43	1.53	93.46	0.70	---
		5240	1.43	1.53	93.46	0.70	---
11N20SISO	Ant1	5180	1.33	1.43	93.01	0.75	---
		5200	1.34	1.44	93.06	0.75	---
		5240	1.34	1.44	93.06	0.75	---
11N40SISO	Ant1	5190	0.66	0.76	86.84	1.52	---
		5230	0.67	0.77	87.01	1.49	---
11AC20SISO	Ant1	5180	1.34	1.44	93.06	0.76	---
		5200	1.34	1.45	92.41	0.75	---
		5240	1.35	1.45	93.10	0.74	---
11AC40SISO	Ant1	5190	0.66	0.77	85.71	1.52	---
		5230	0.67	0.77	87.01	1.49	---
11AC80SISO	Ant1	5210	0.33	0.43	76.74	3.03	---

7.2. Test Graphs

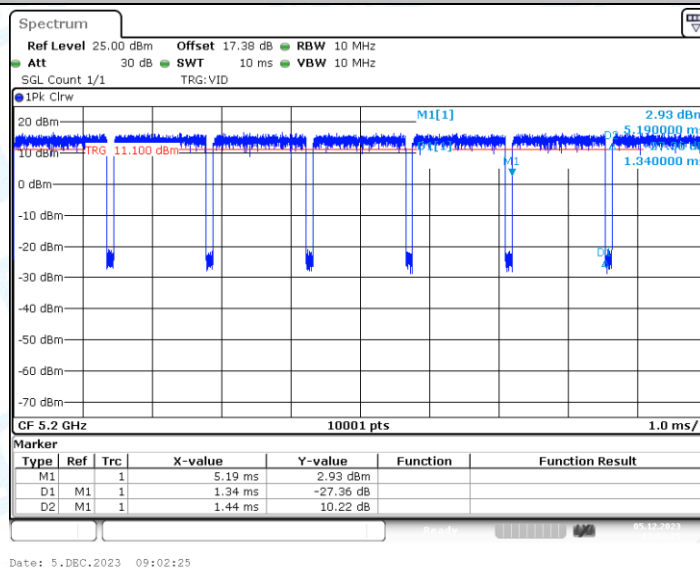




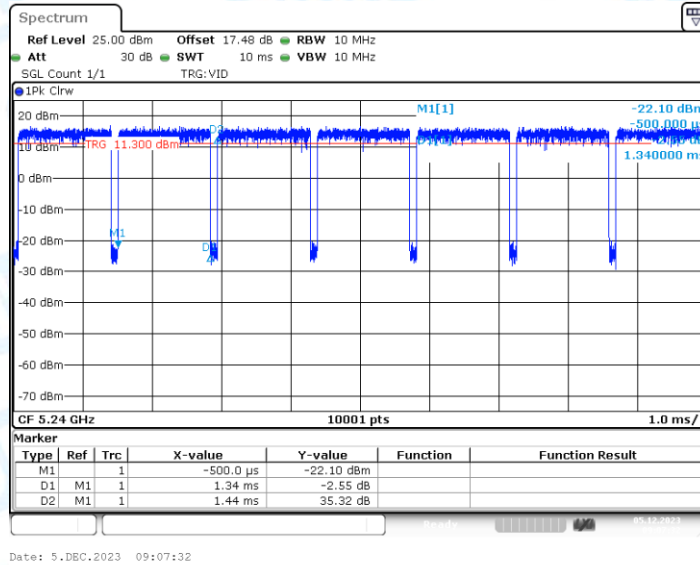
11N20SISO_Ant1_5180



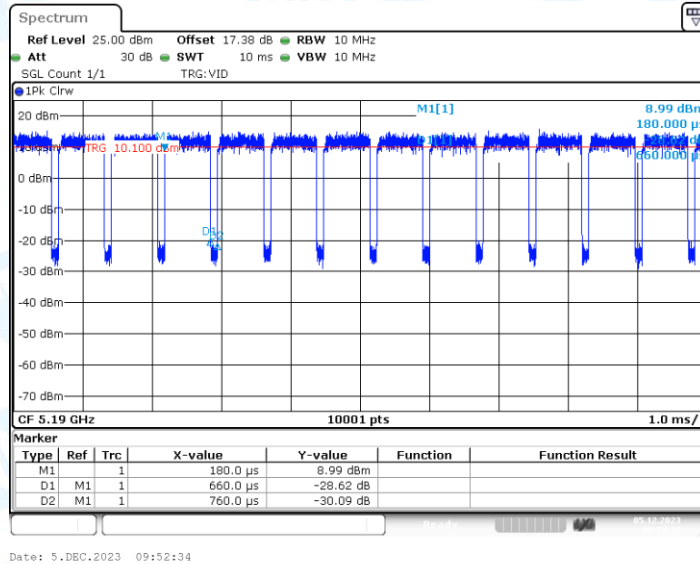
11N20SISO_Ant1_5200



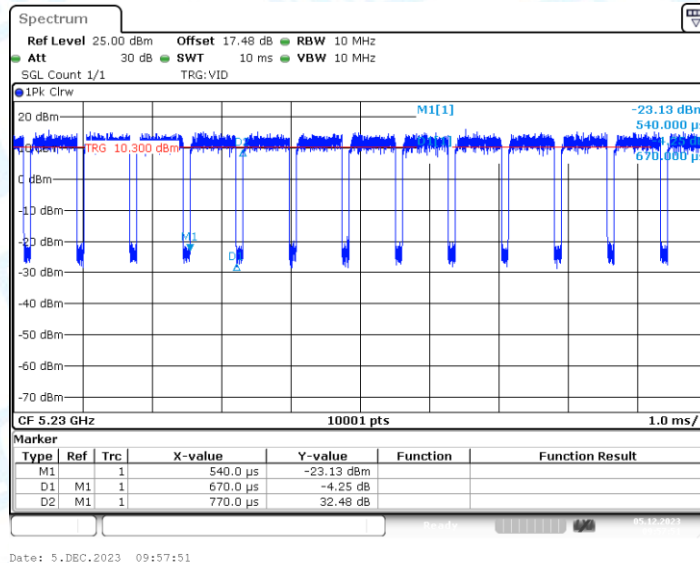
11N20SISO_Ant1_5240



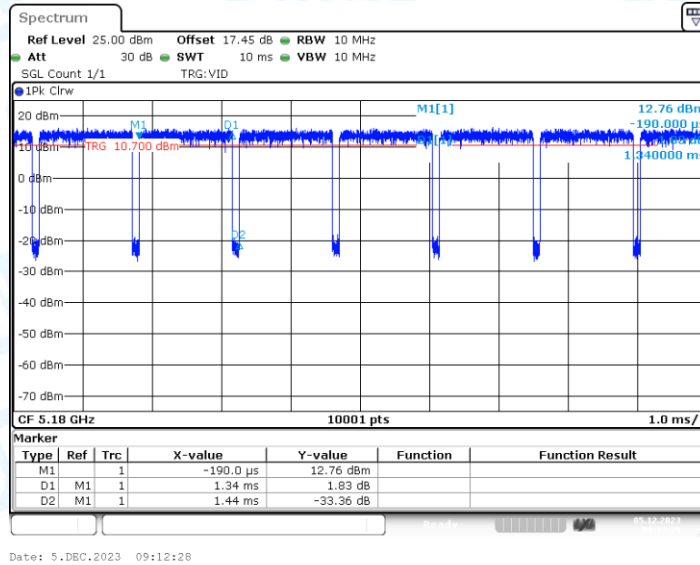
11N40SISO_Ant1_5190



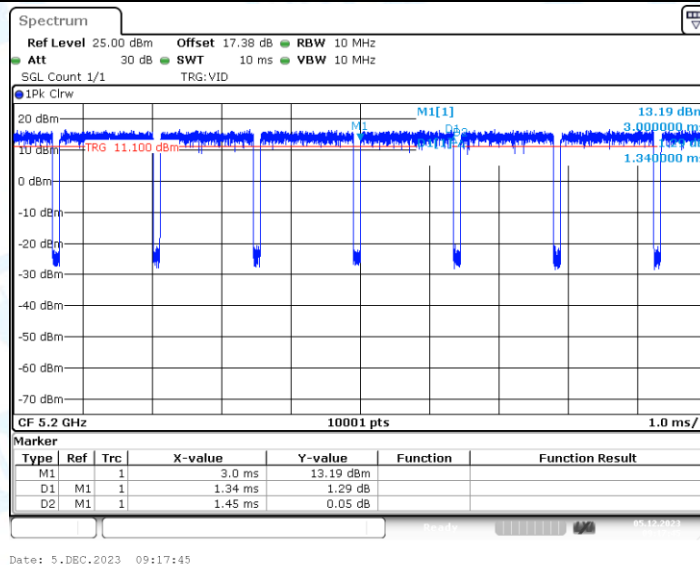
11N40SISO_Ant1_5230



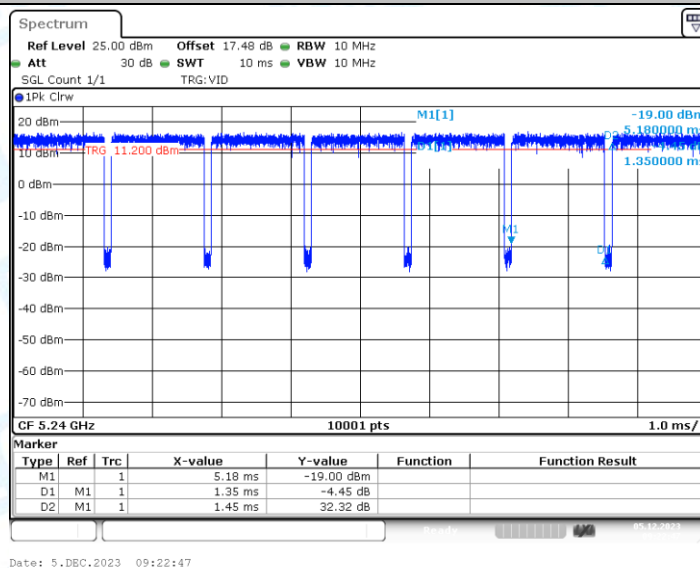
11AC20SISO_Ant1_5180



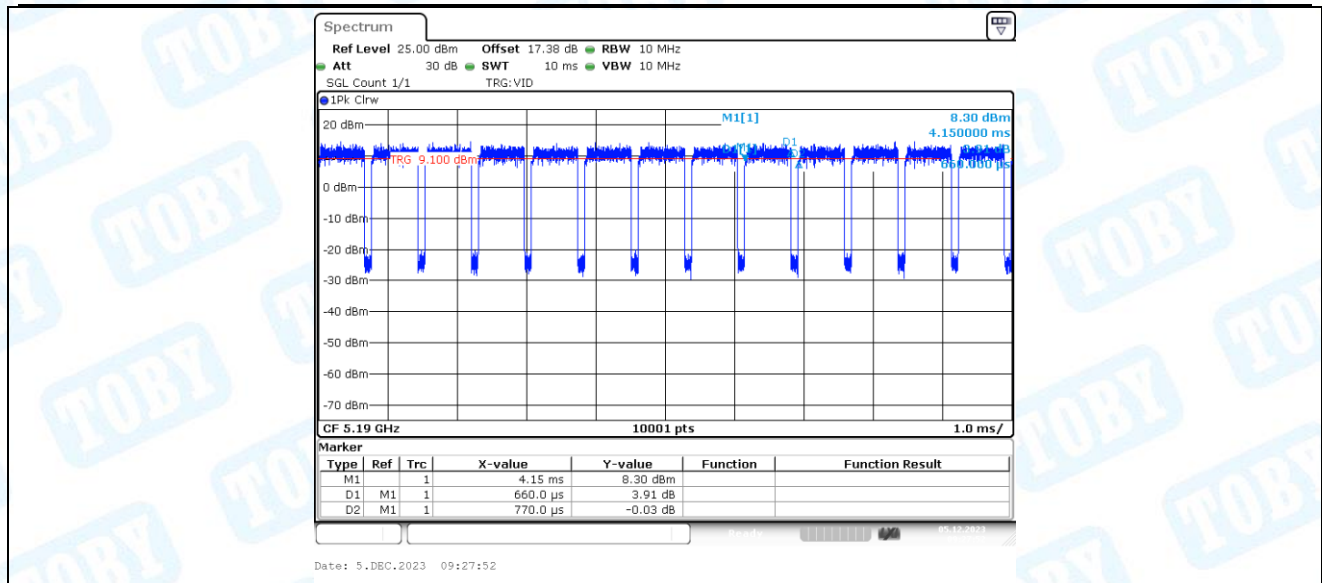
11AC20SISO_Ant1_5200



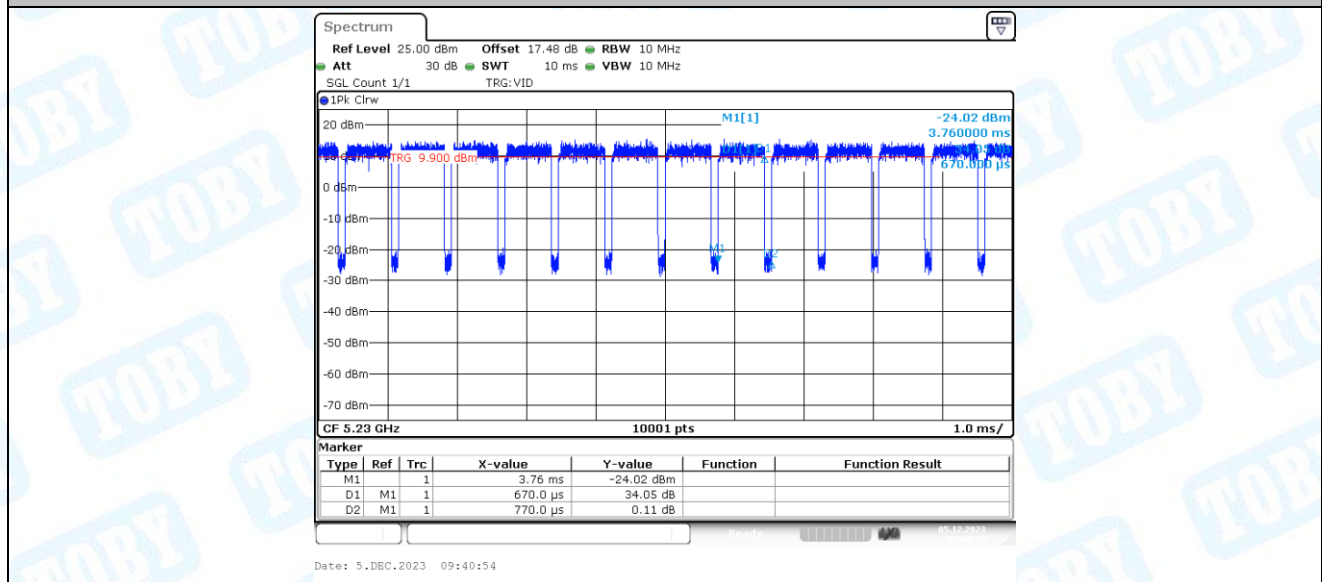
11AC20SISO_Ant1_5240



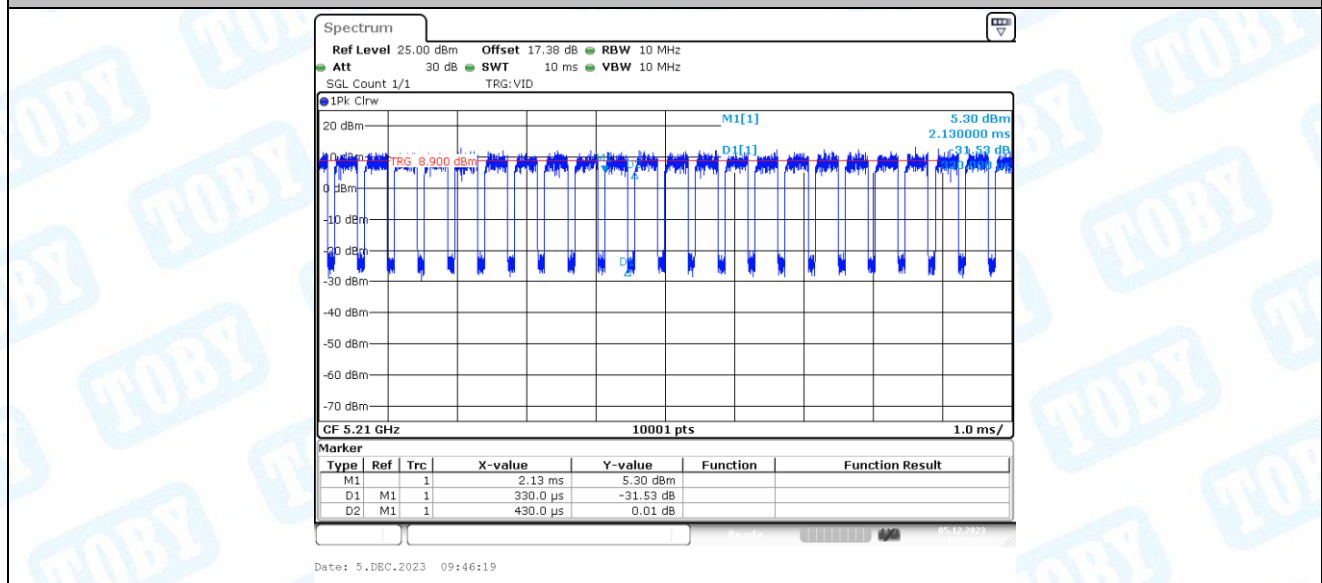
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



-----End of the report-----