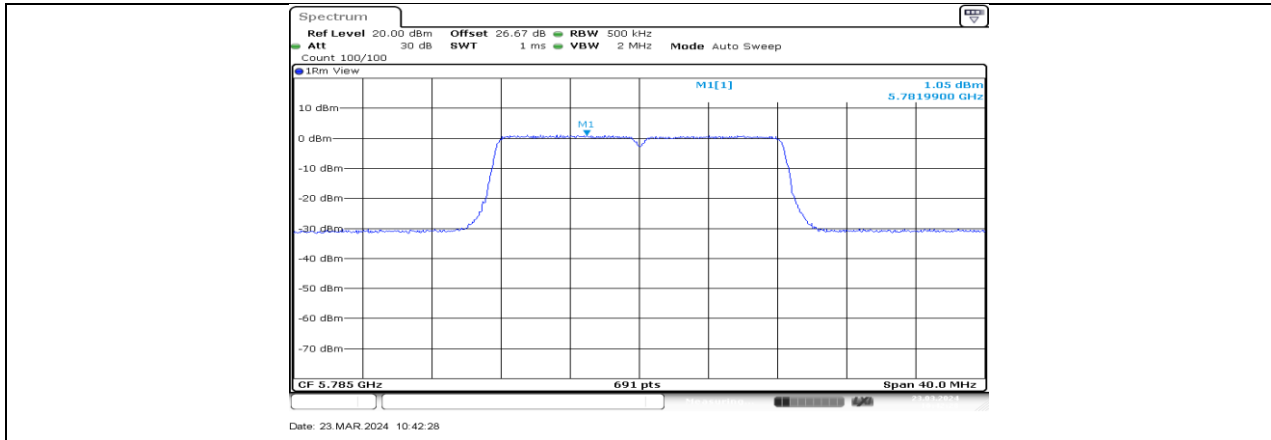
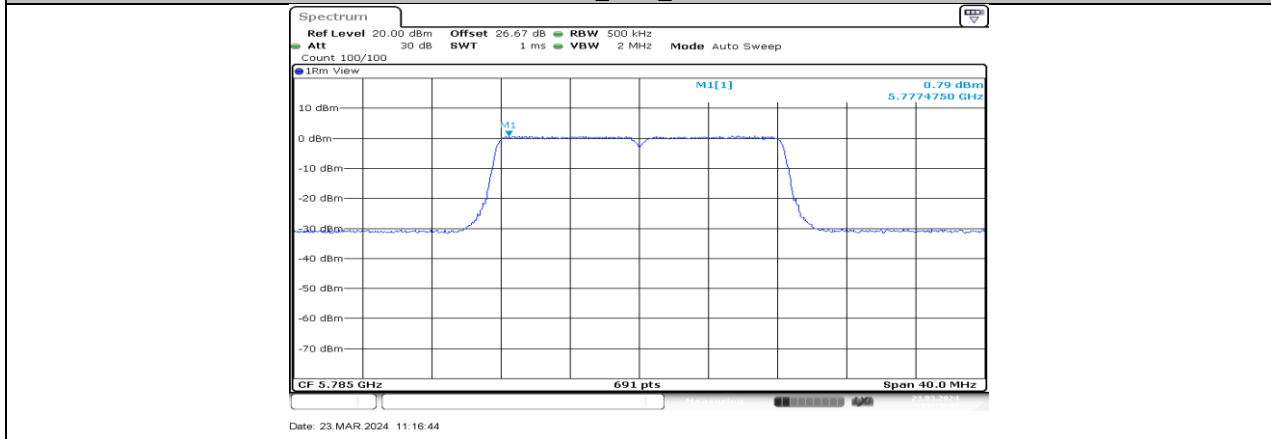


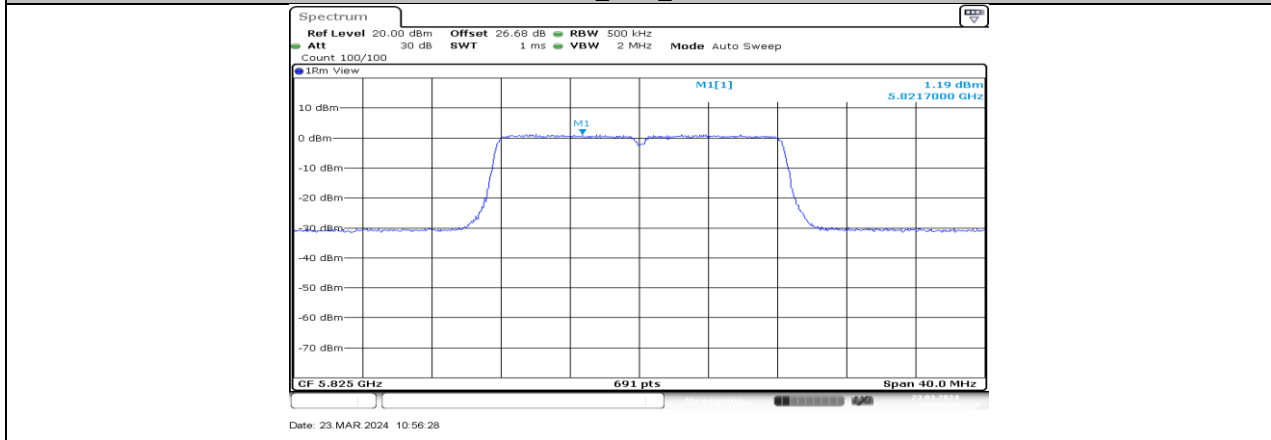
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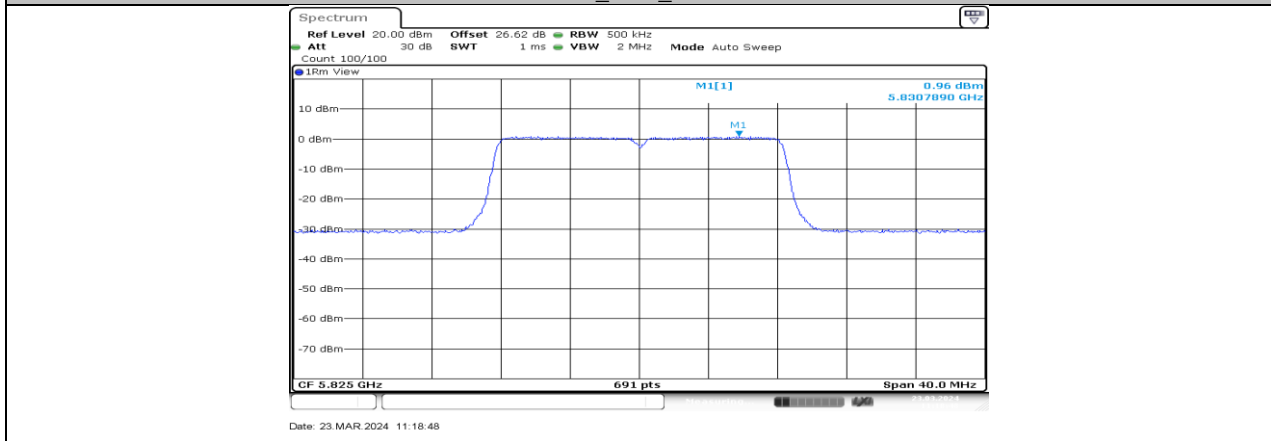
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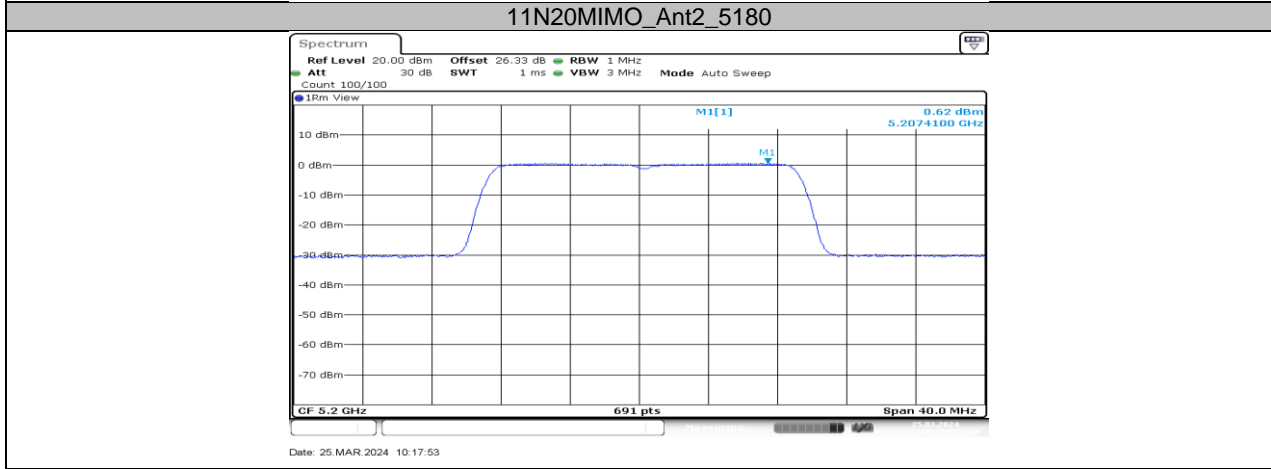
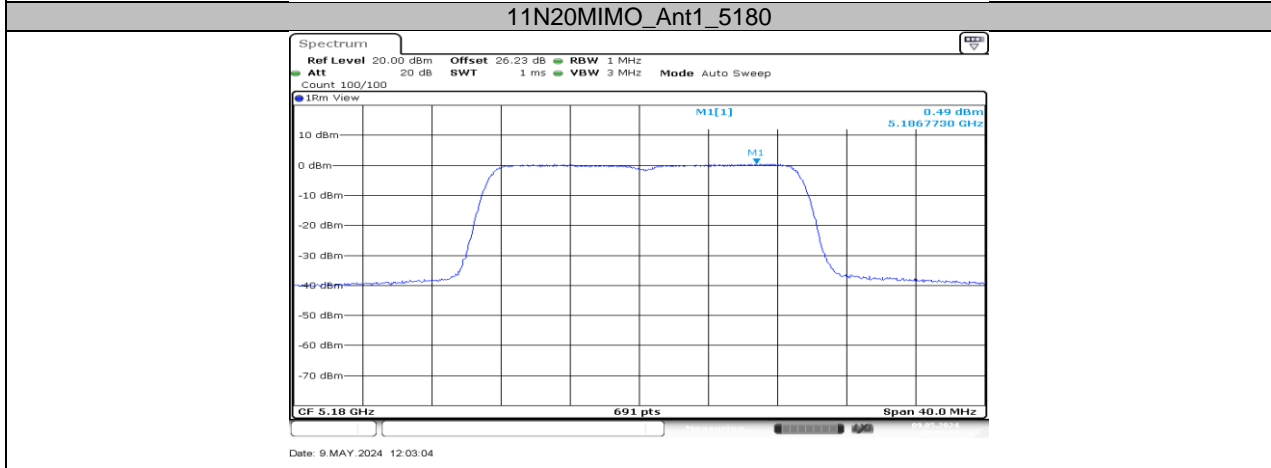
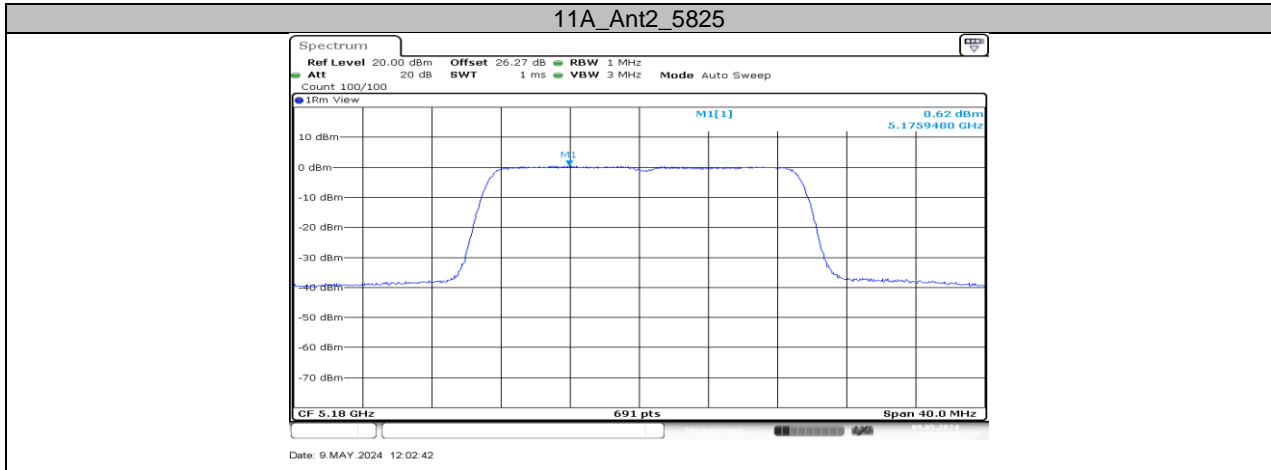


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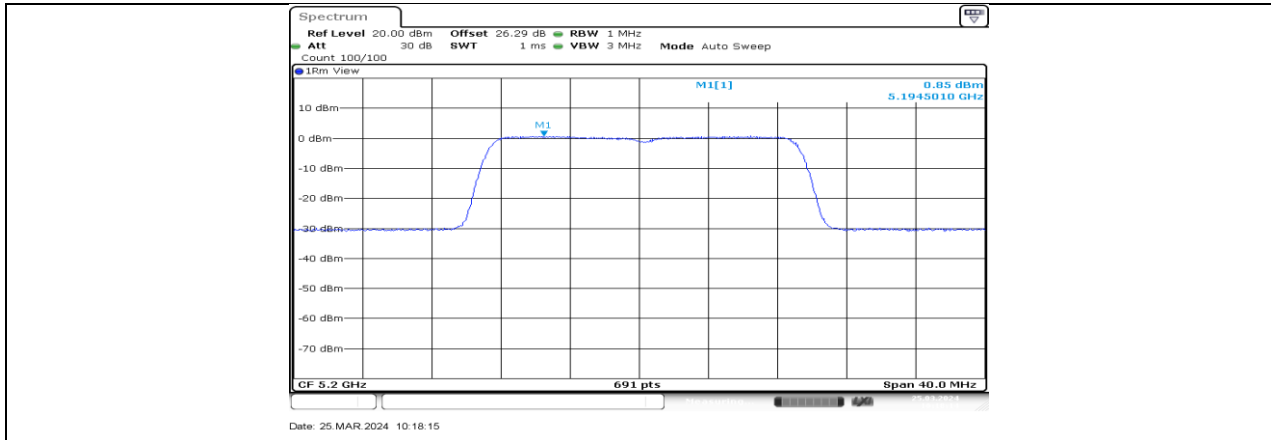


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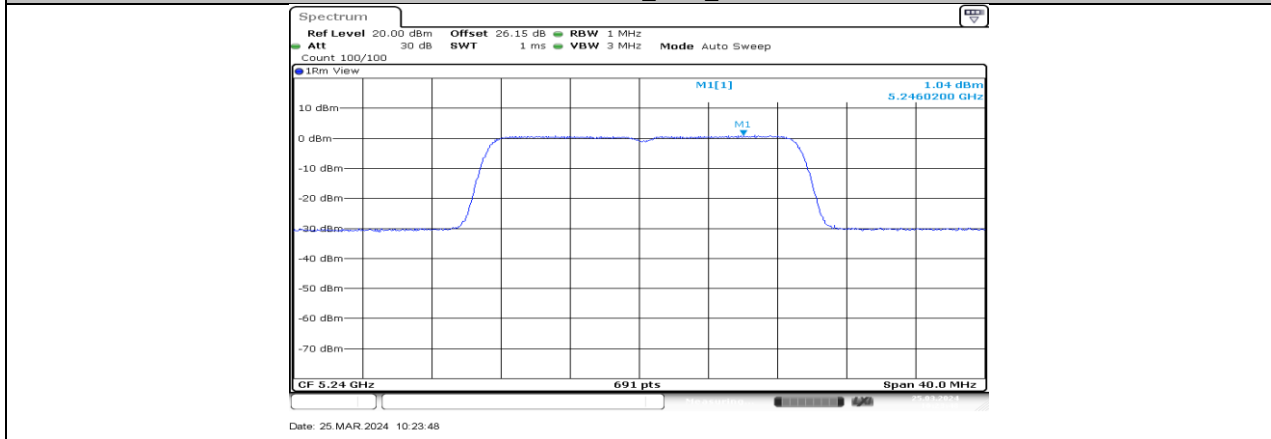




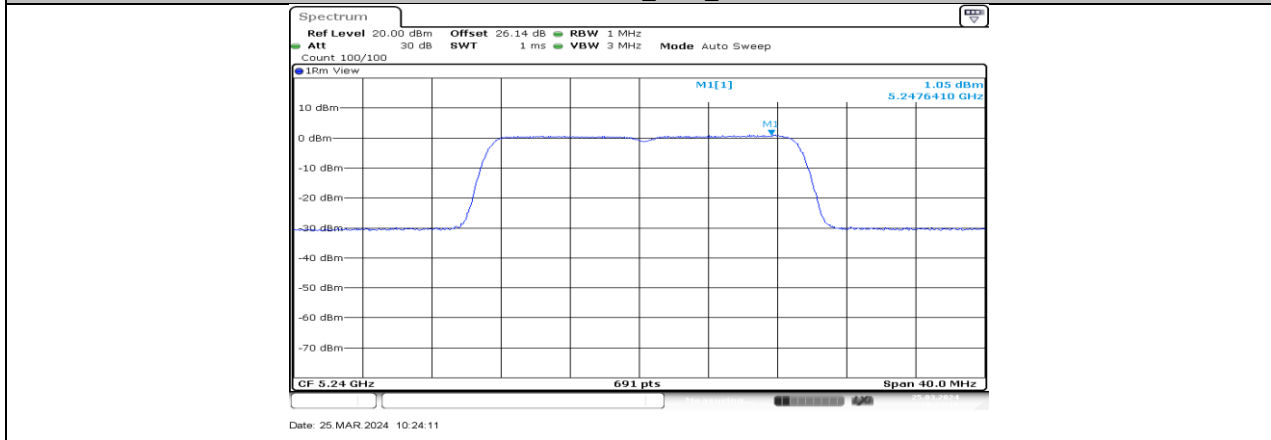
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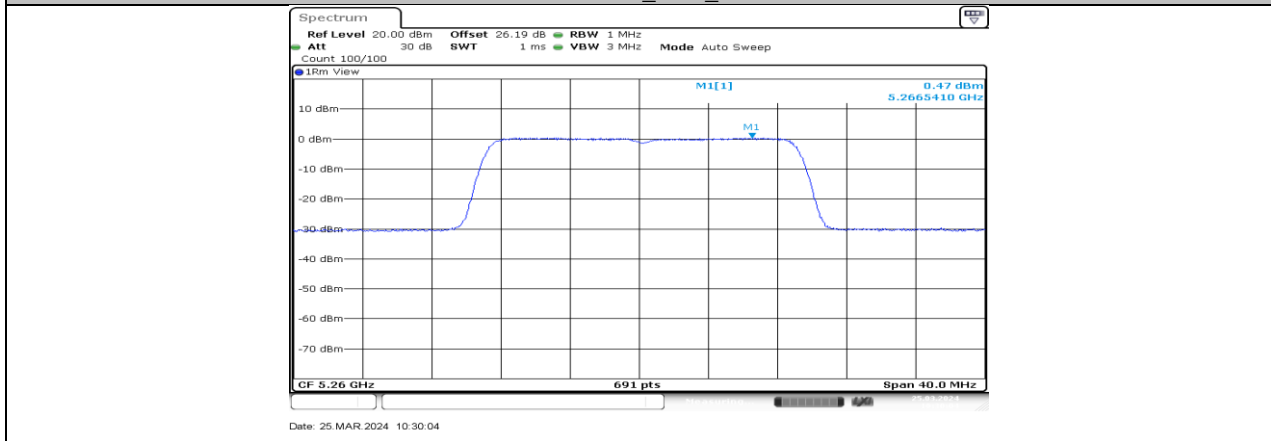
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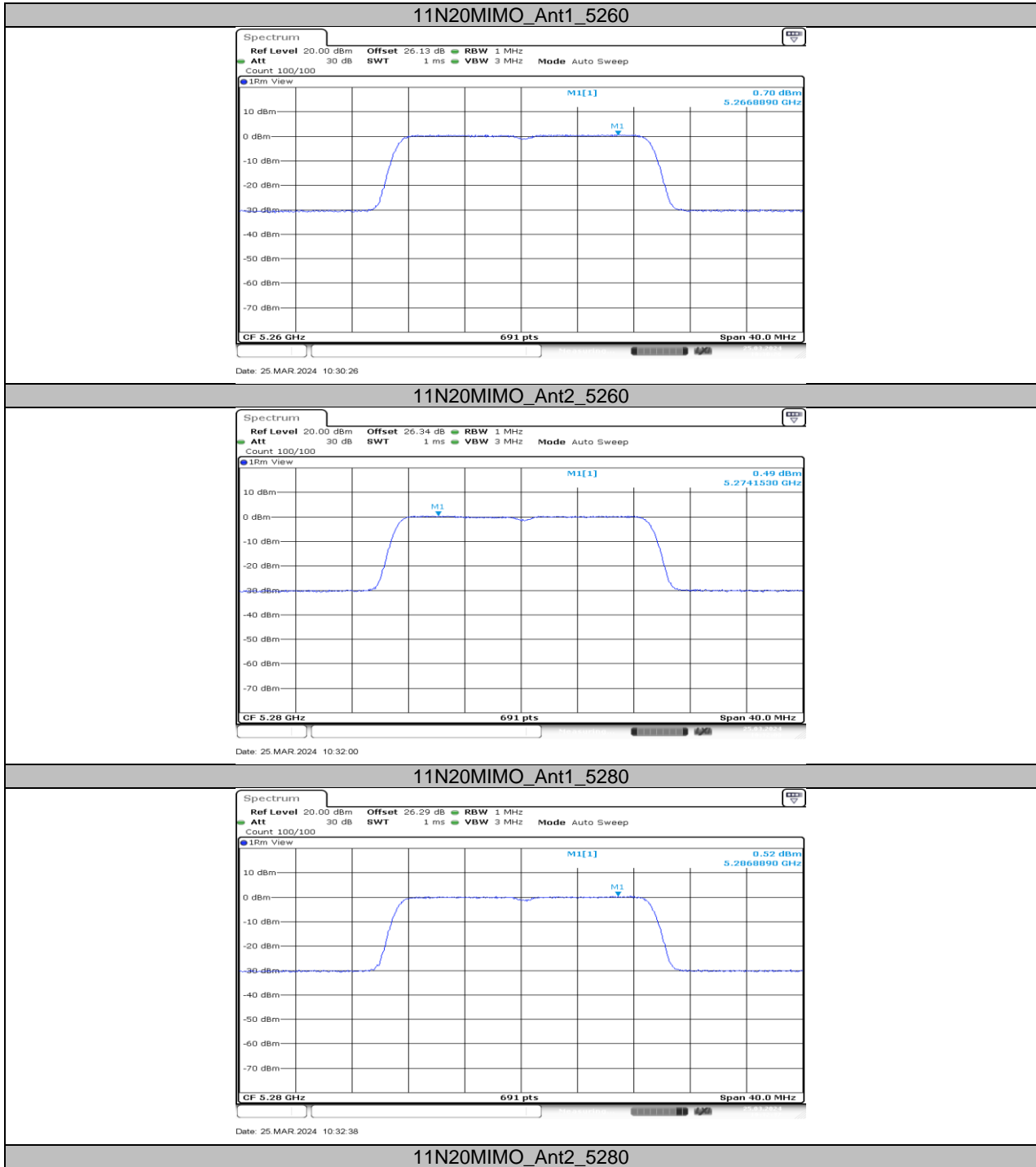


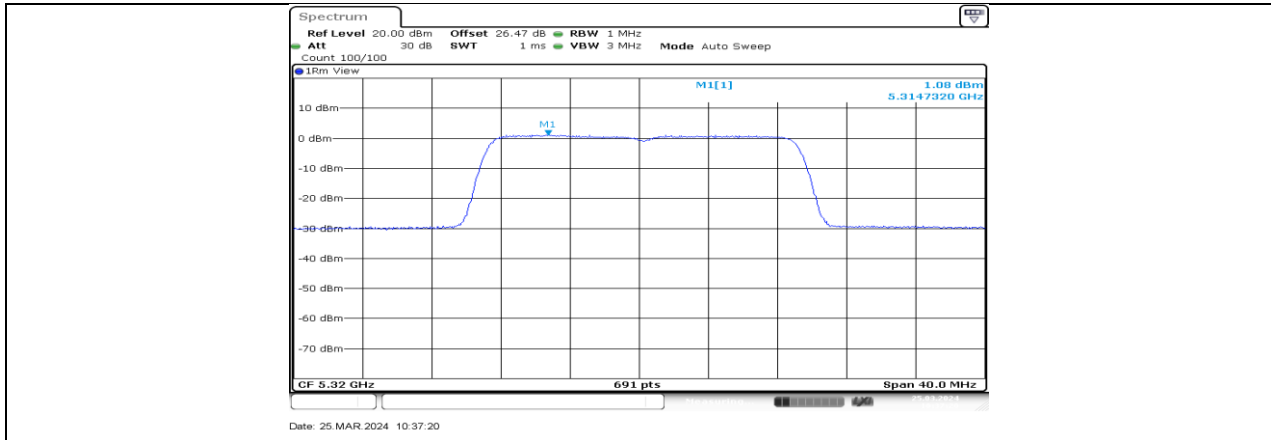
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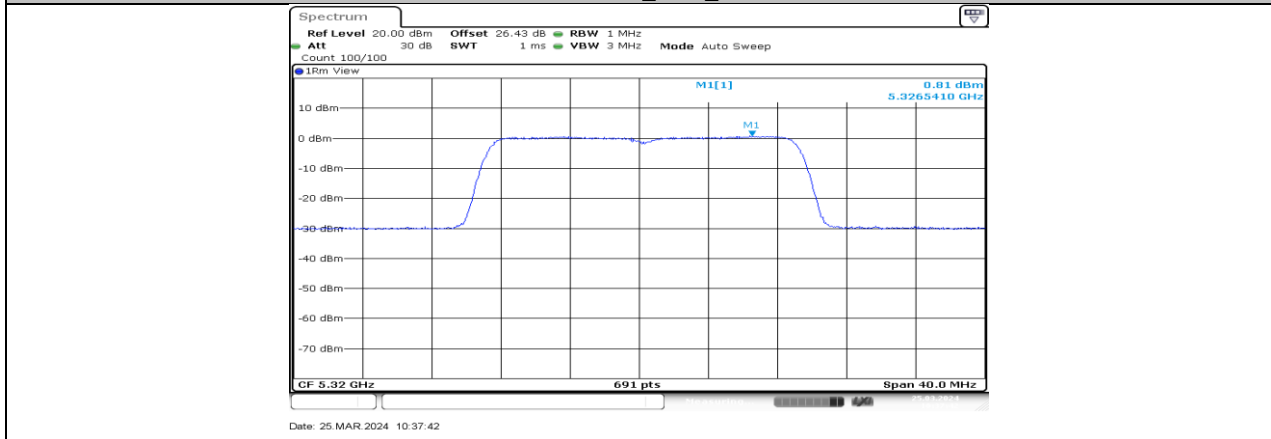
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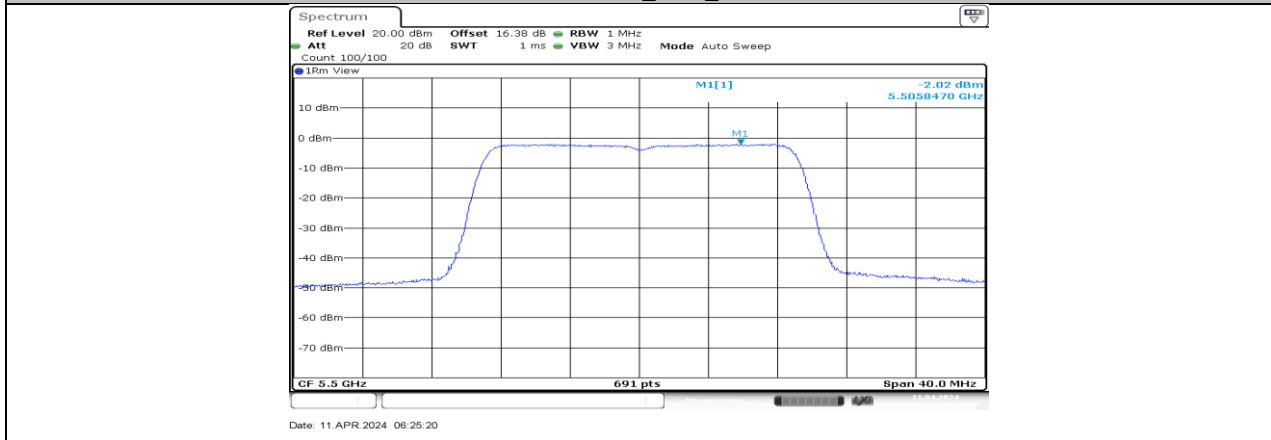




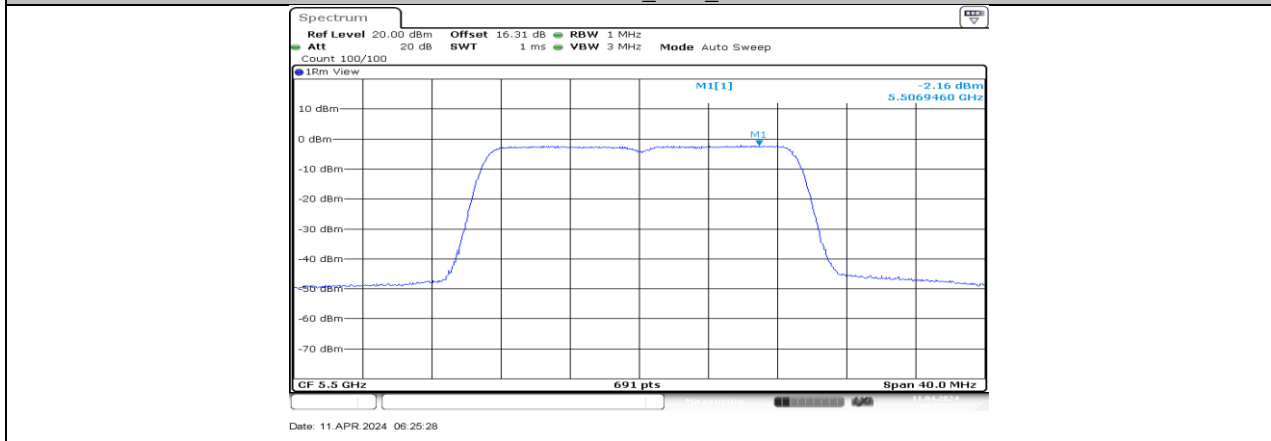
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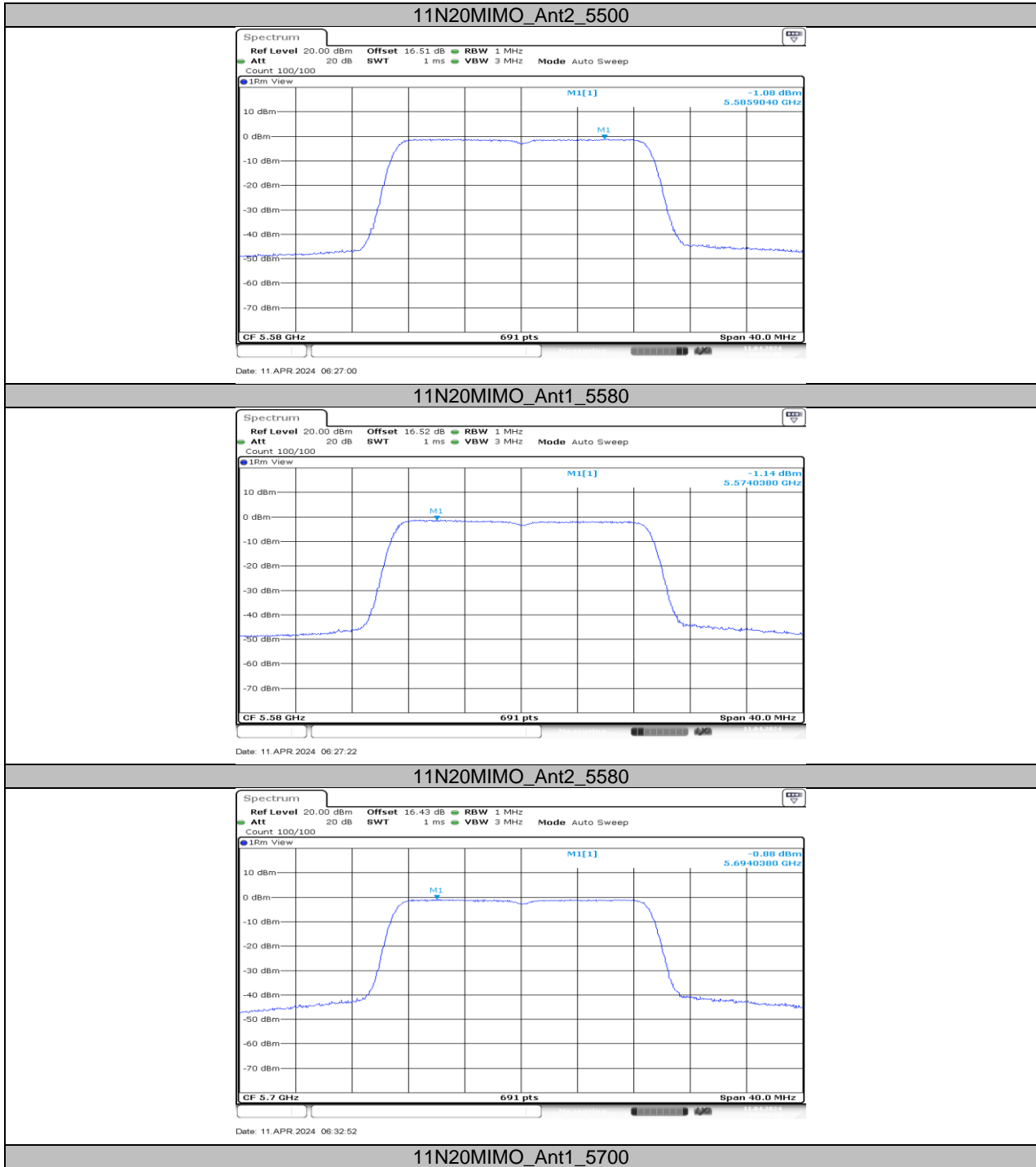


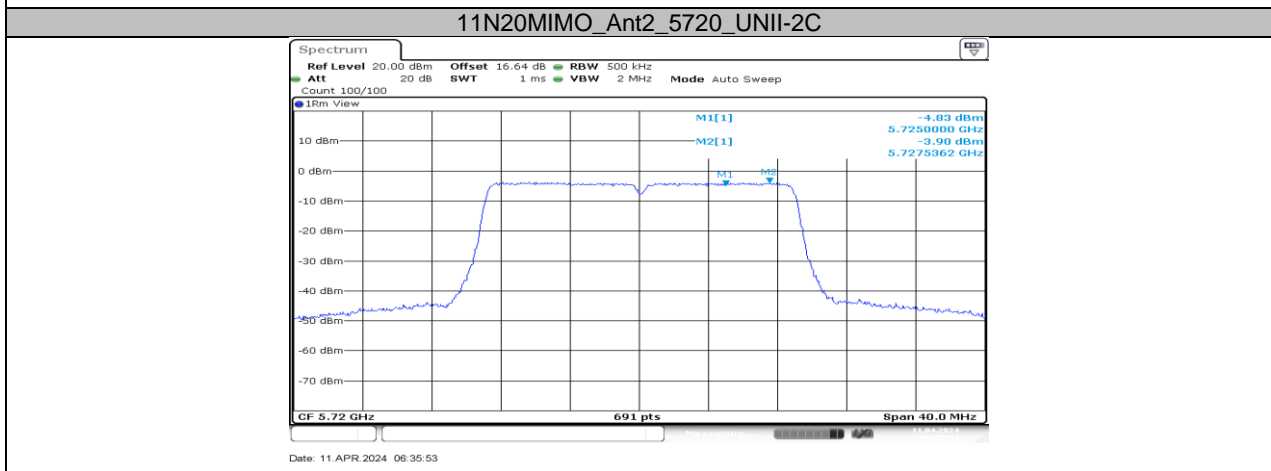
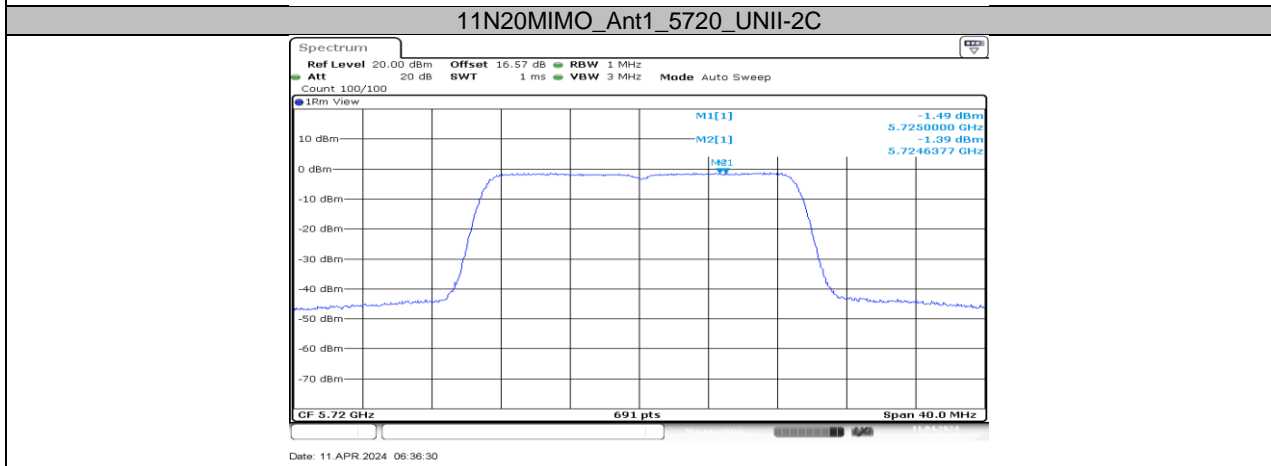
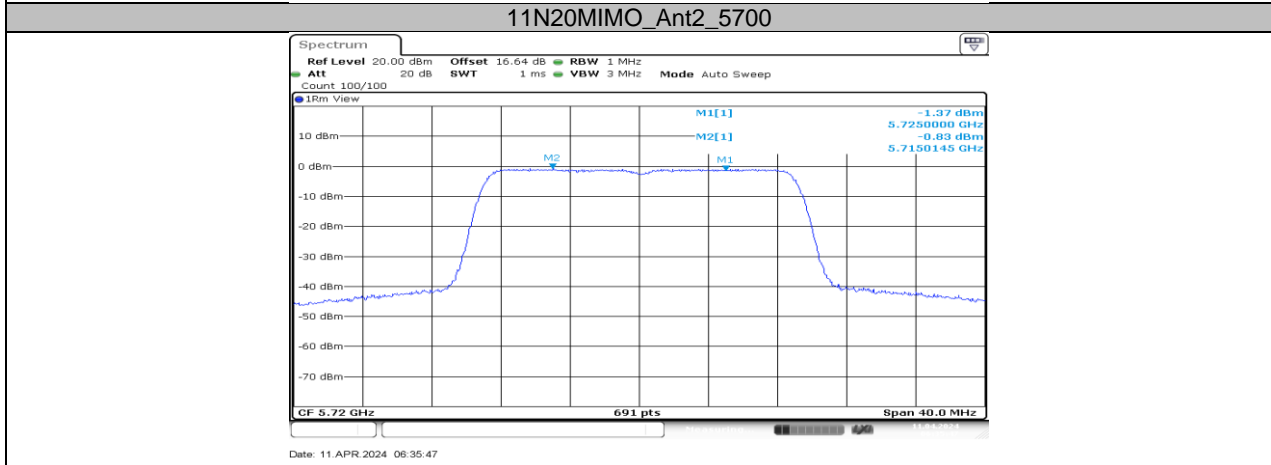
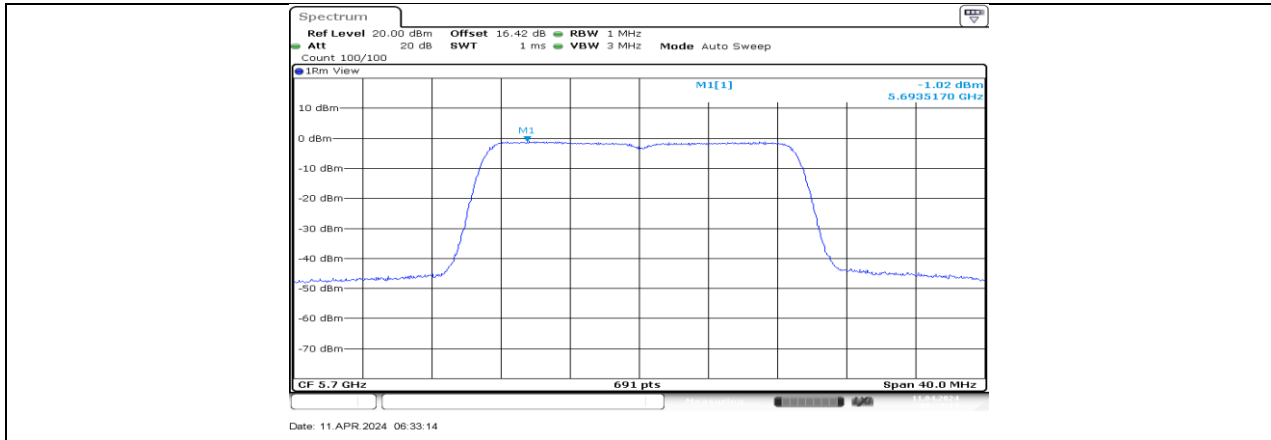
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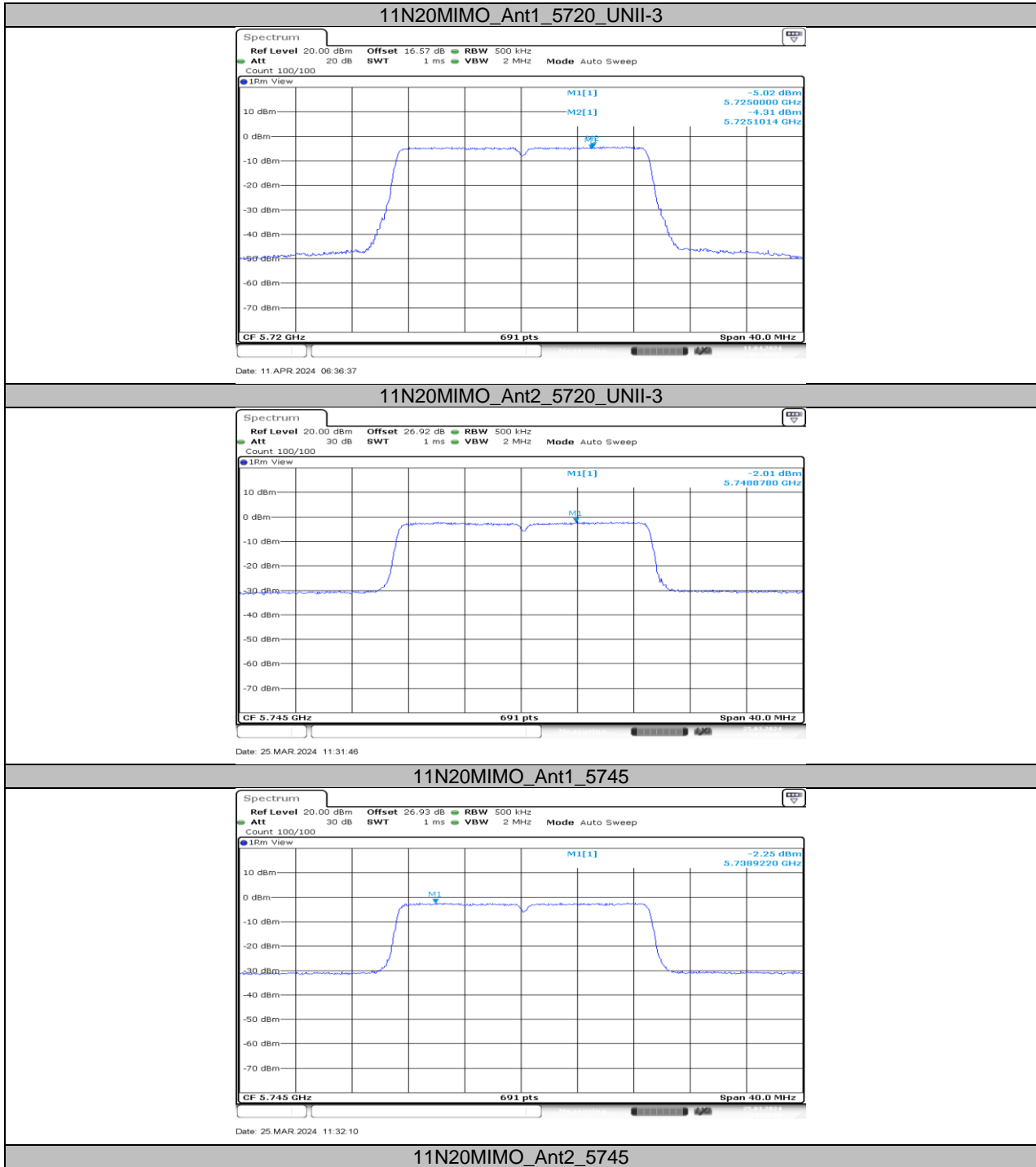


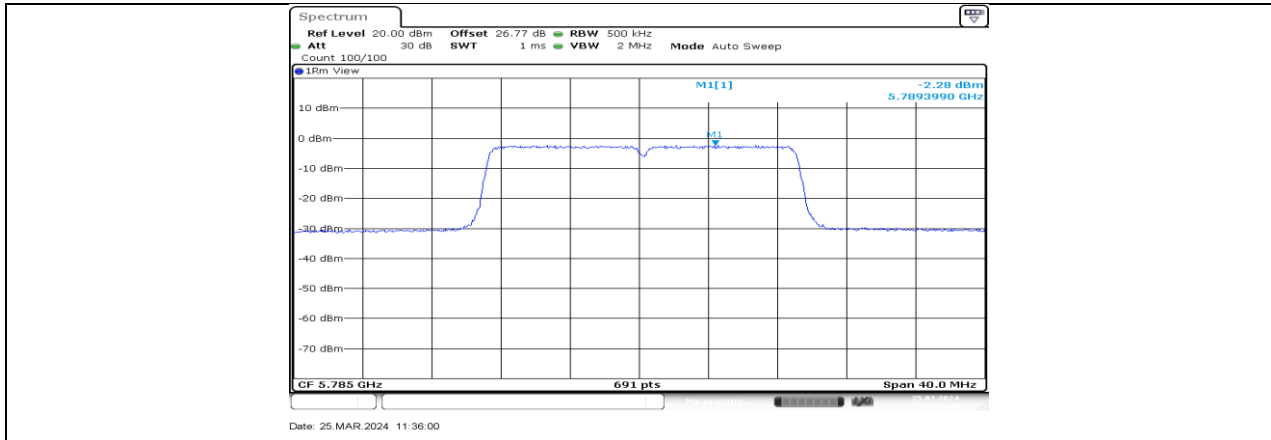
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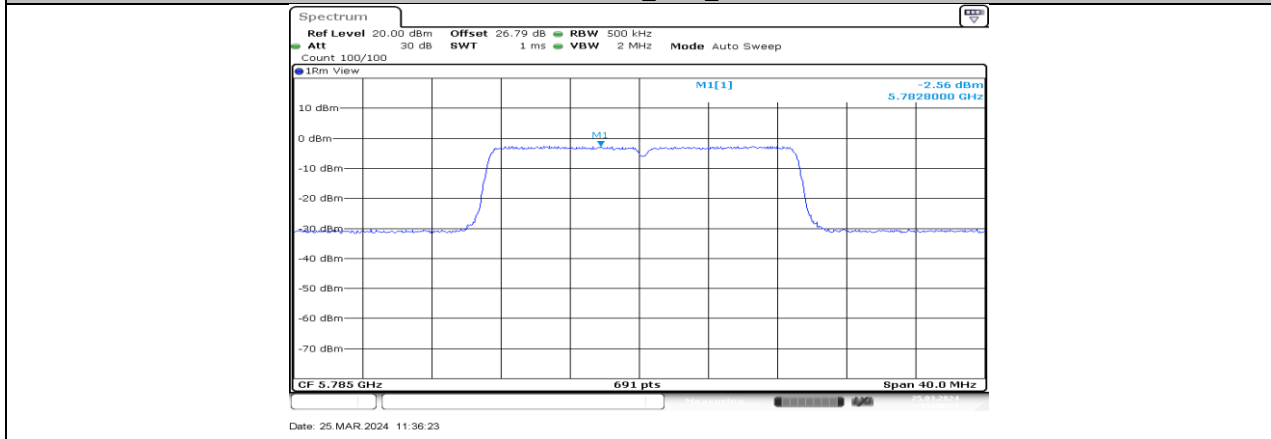




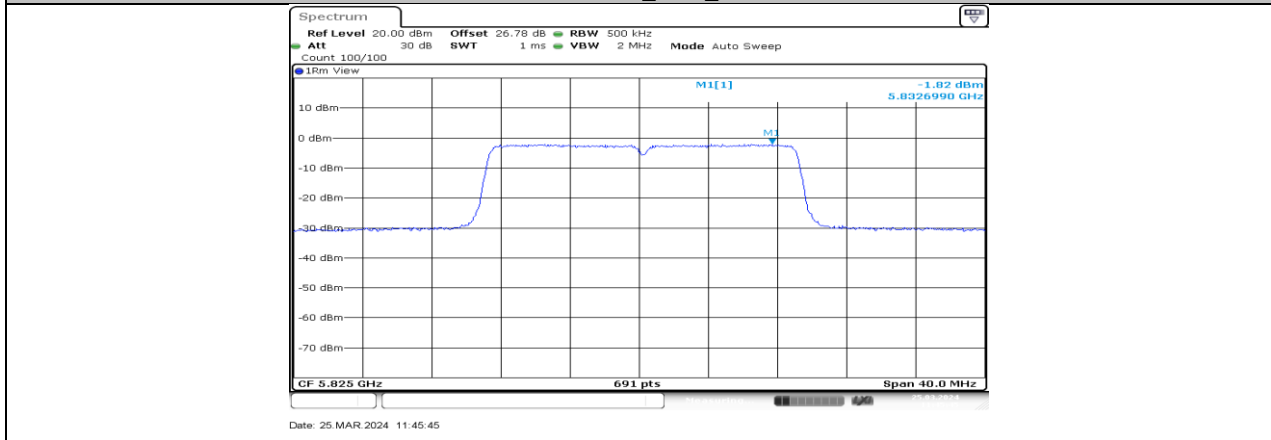




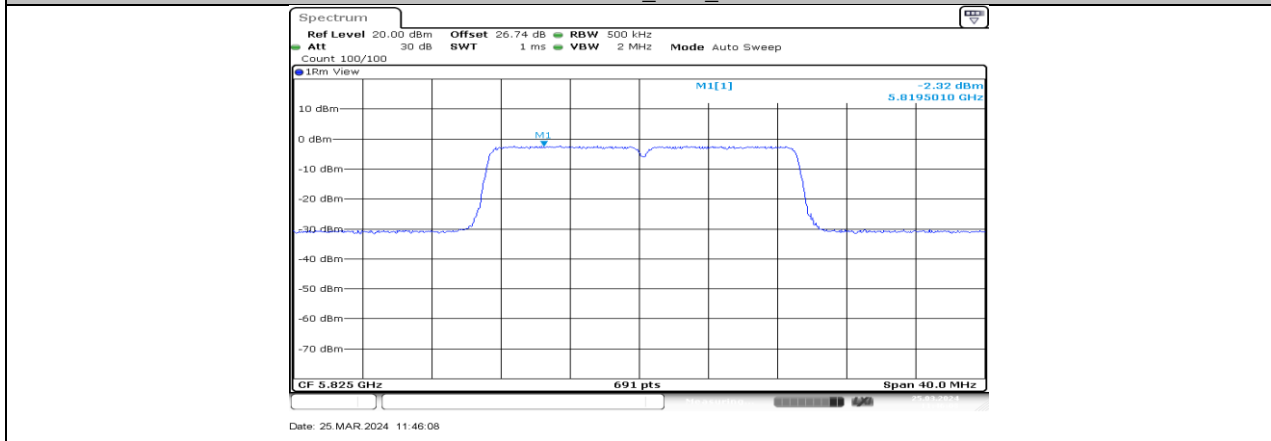
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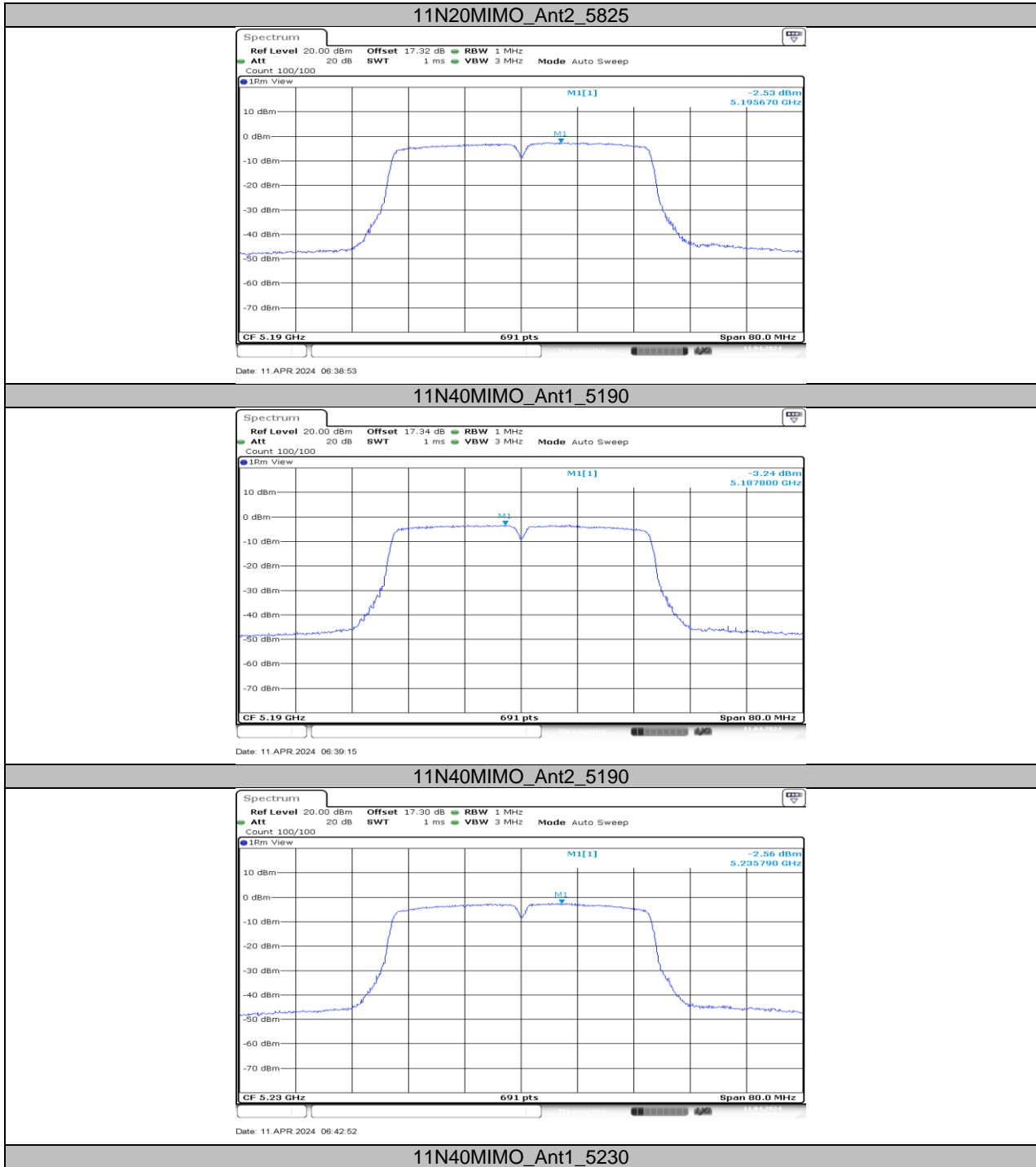


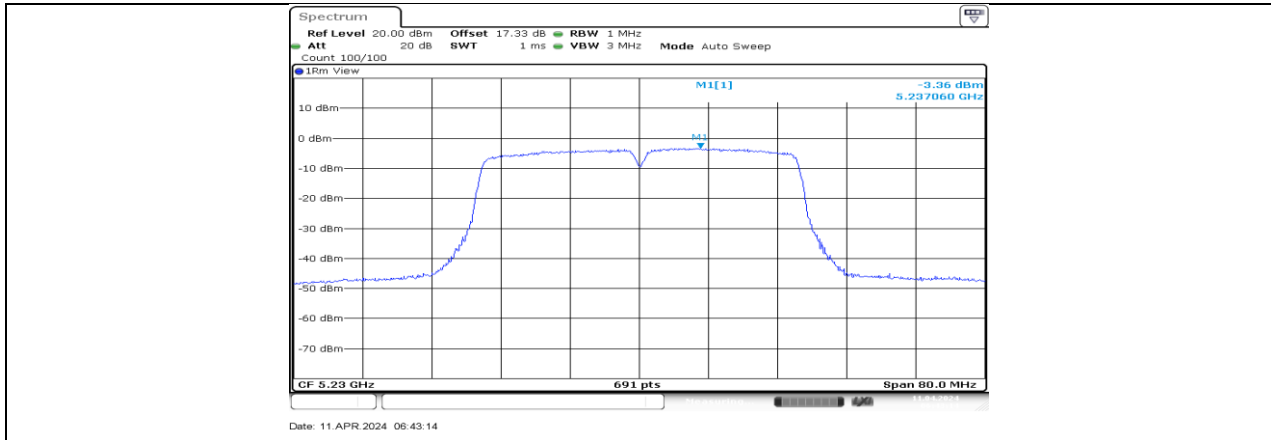
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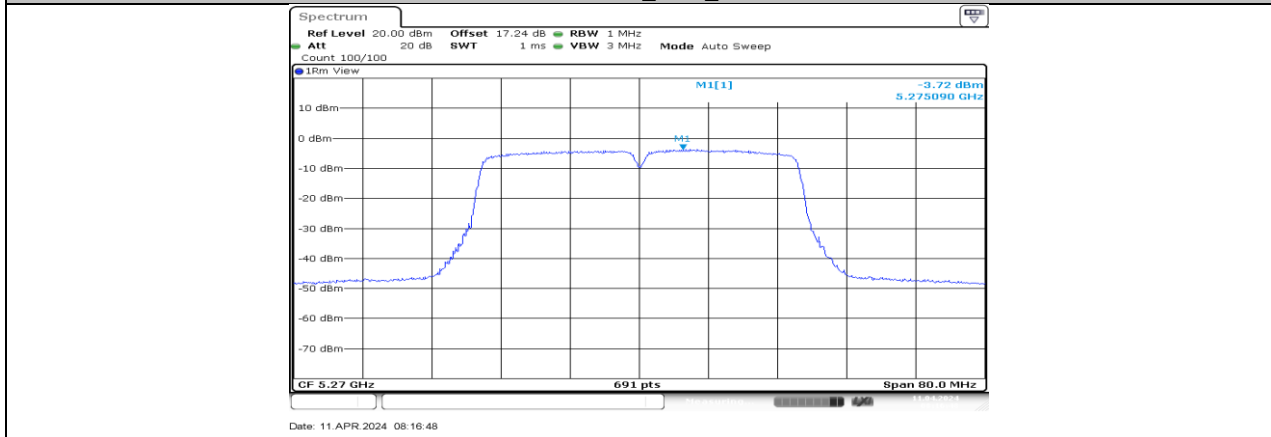
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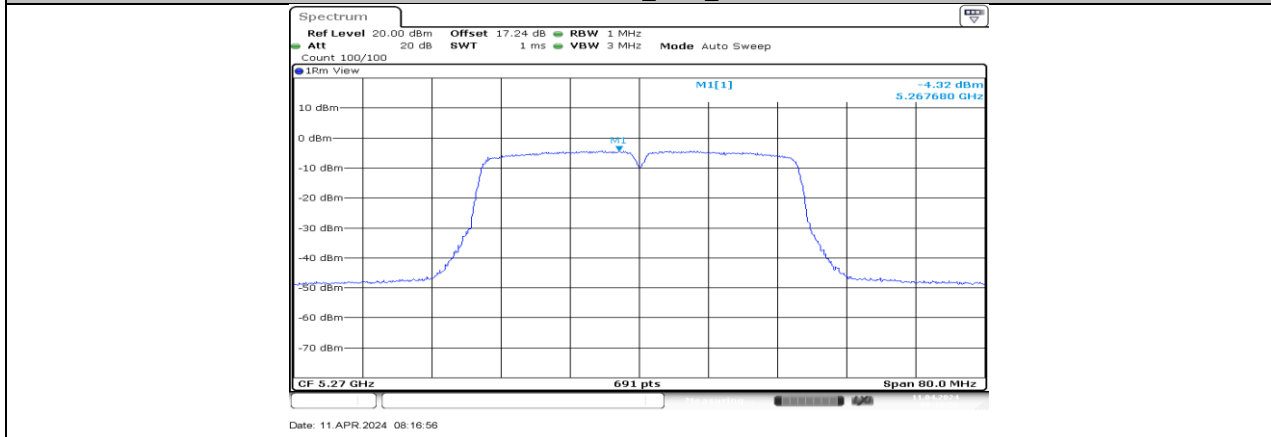




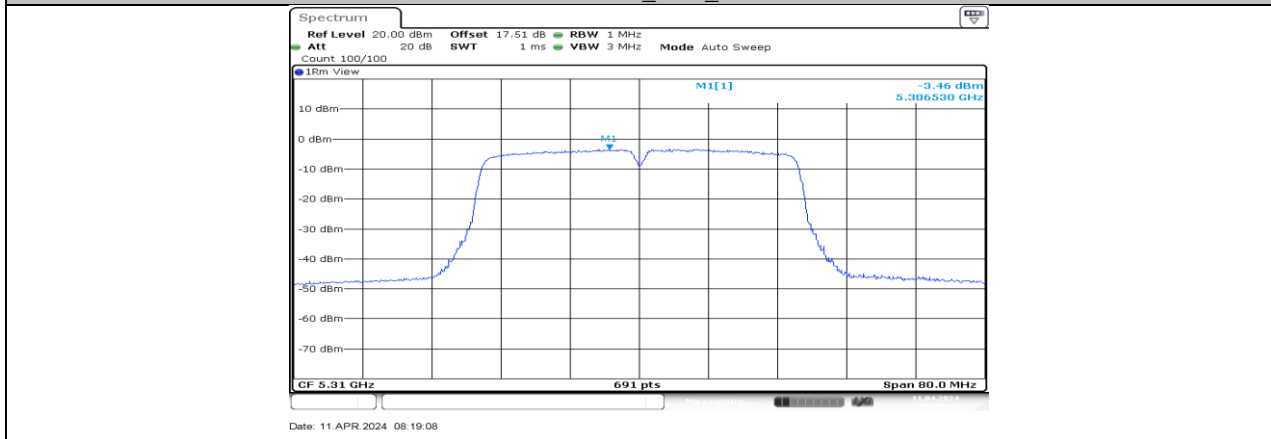
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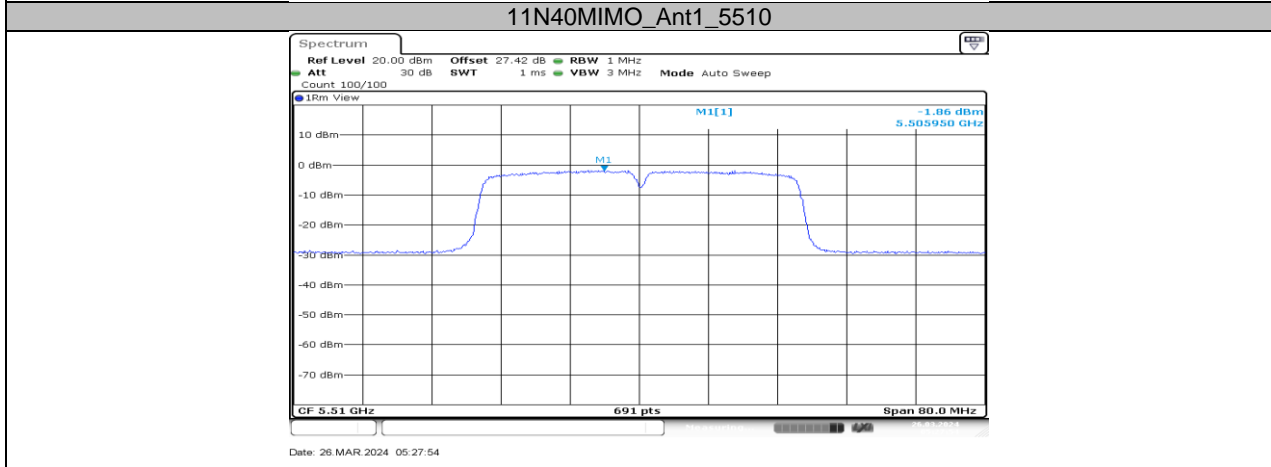
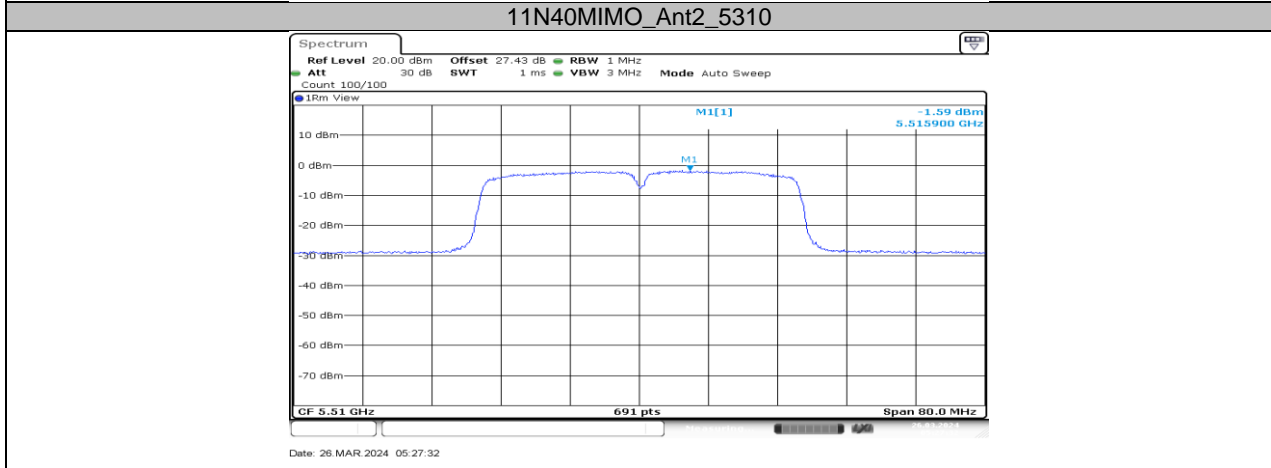
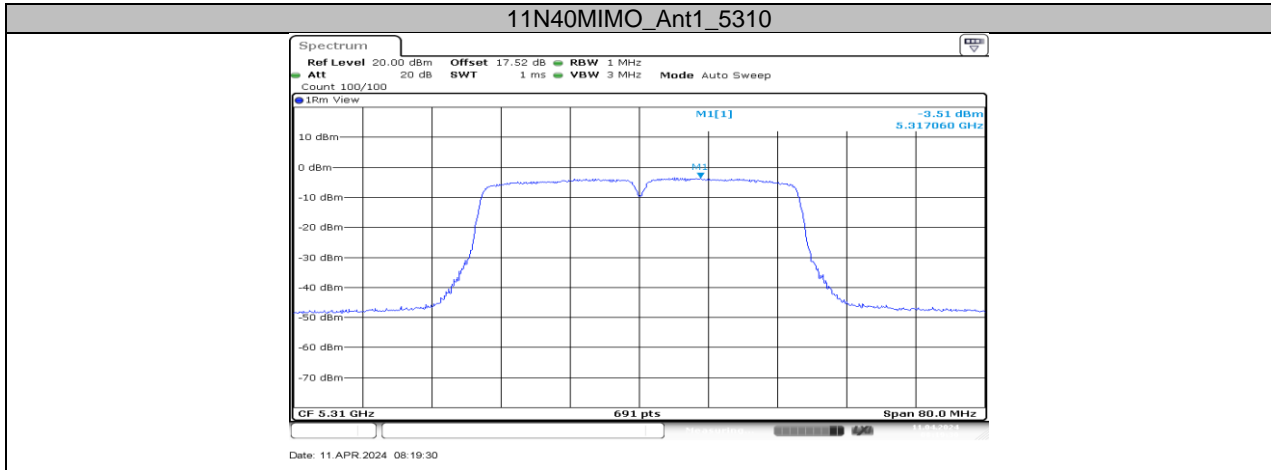


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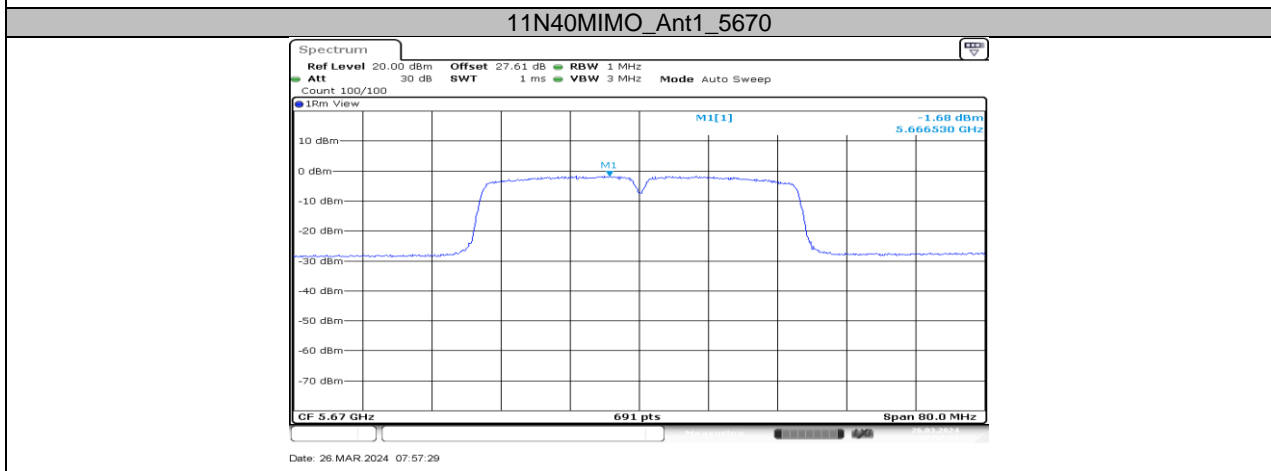
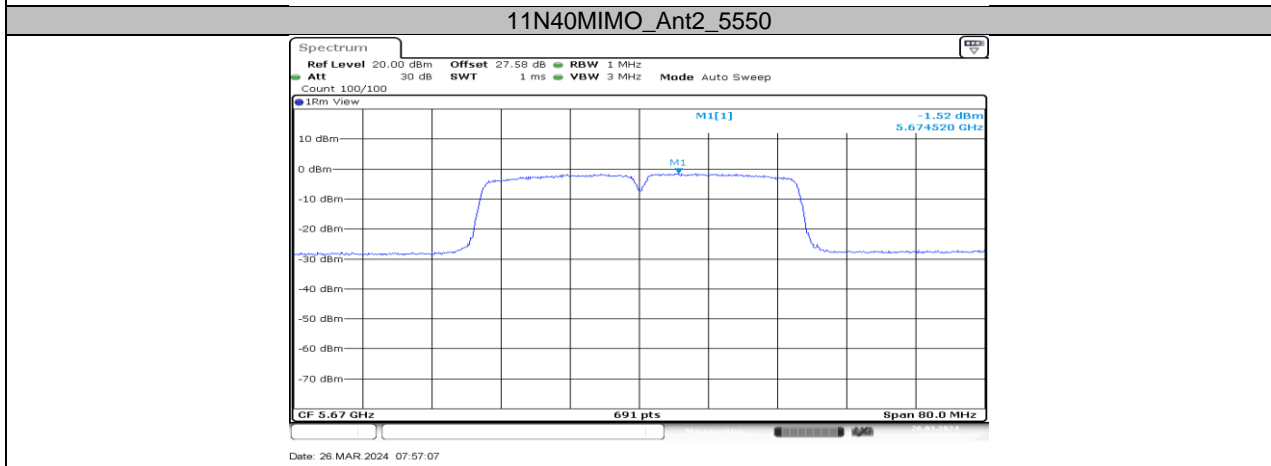
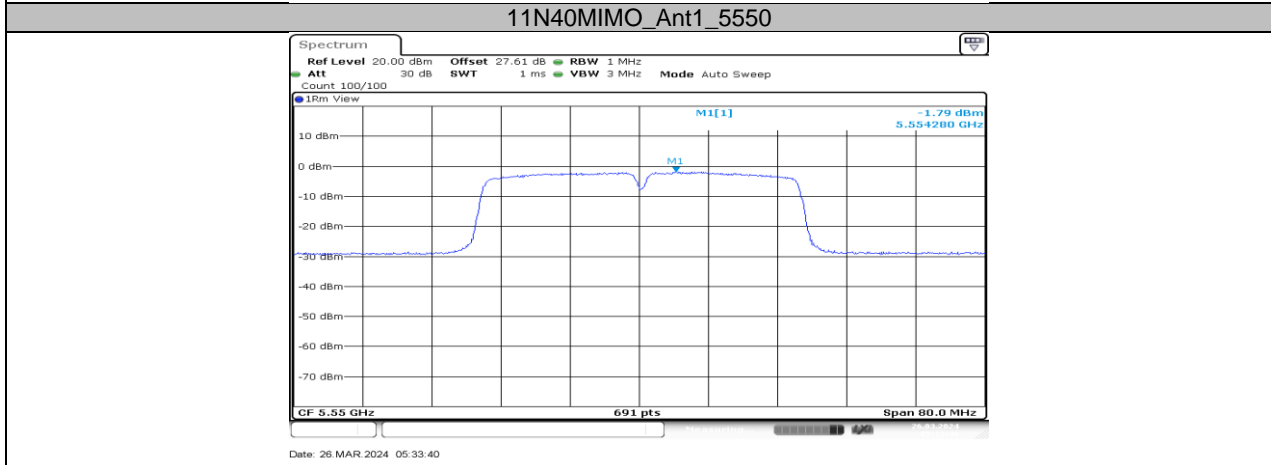
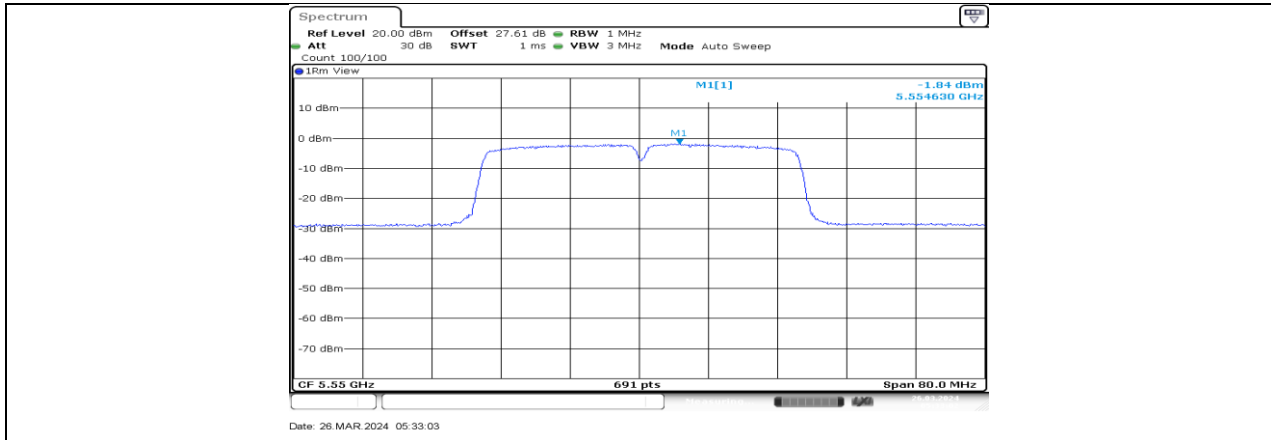


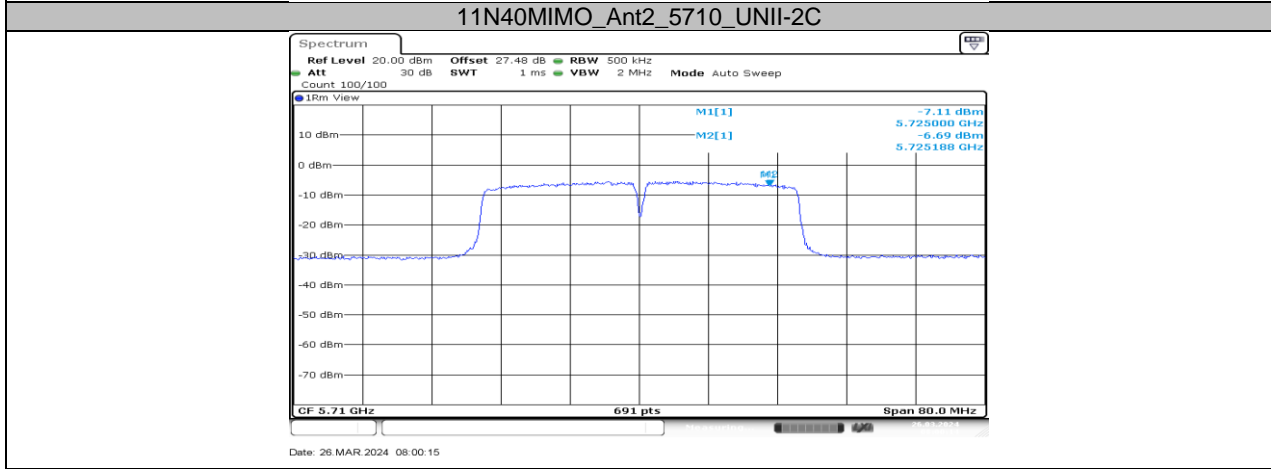
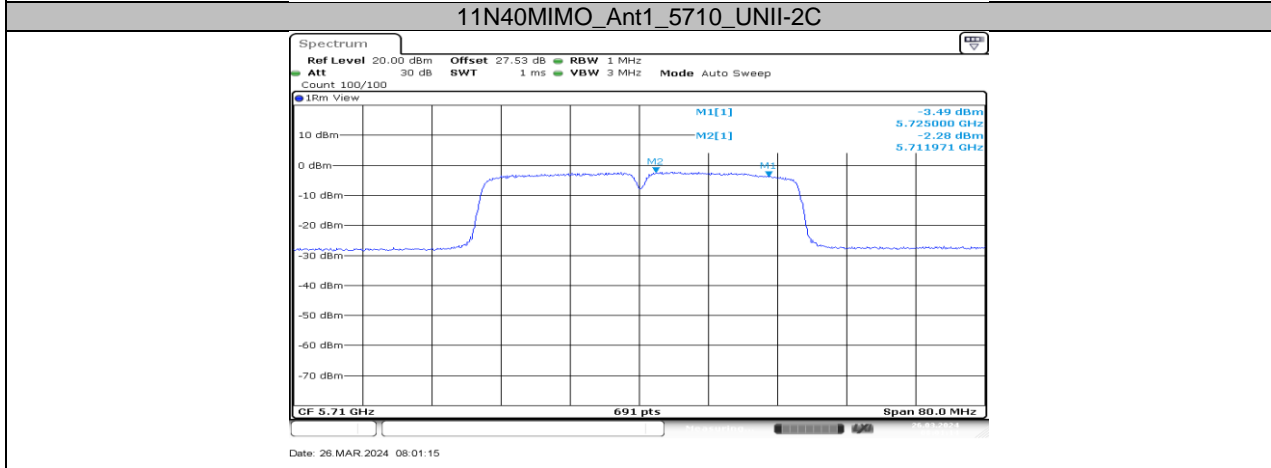
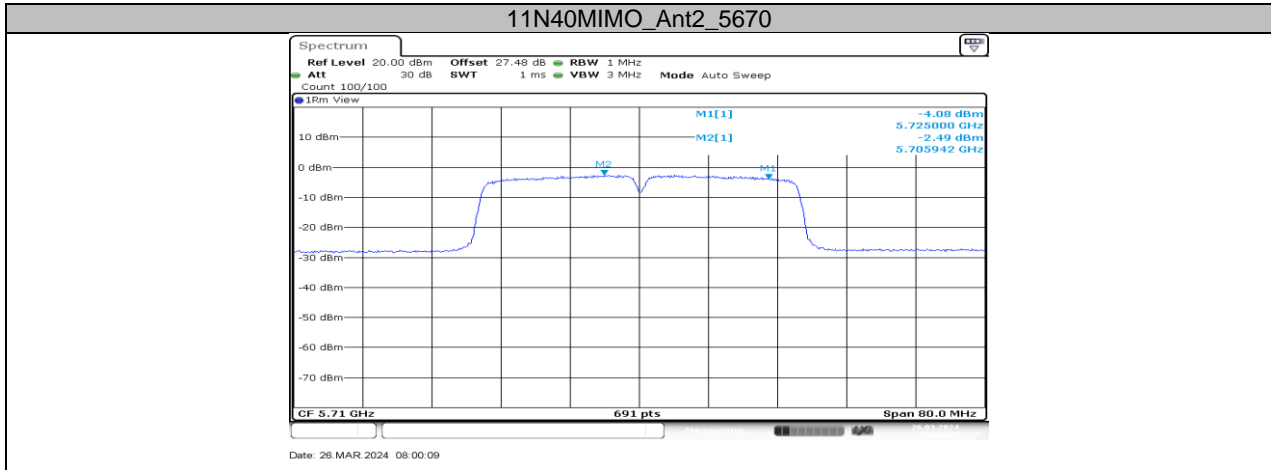
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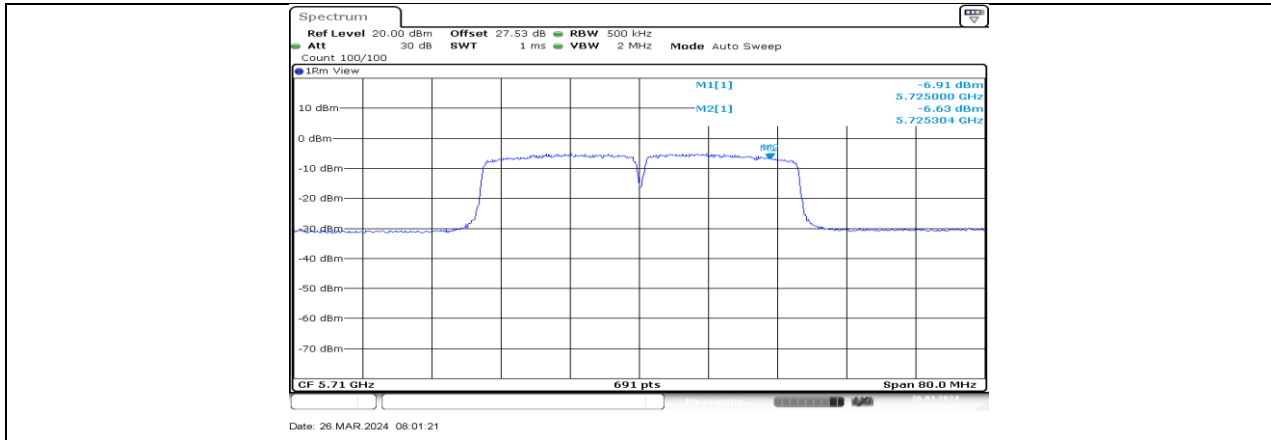


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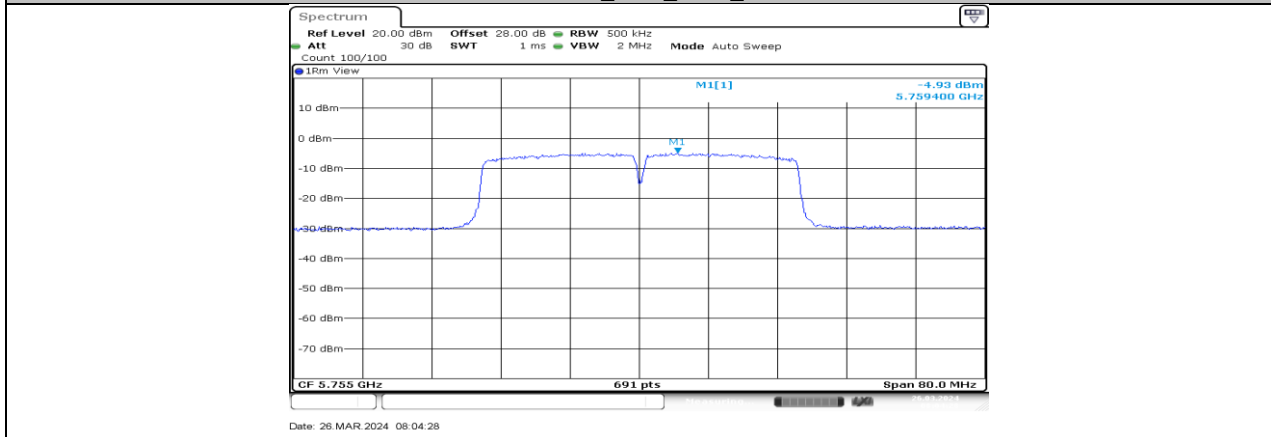




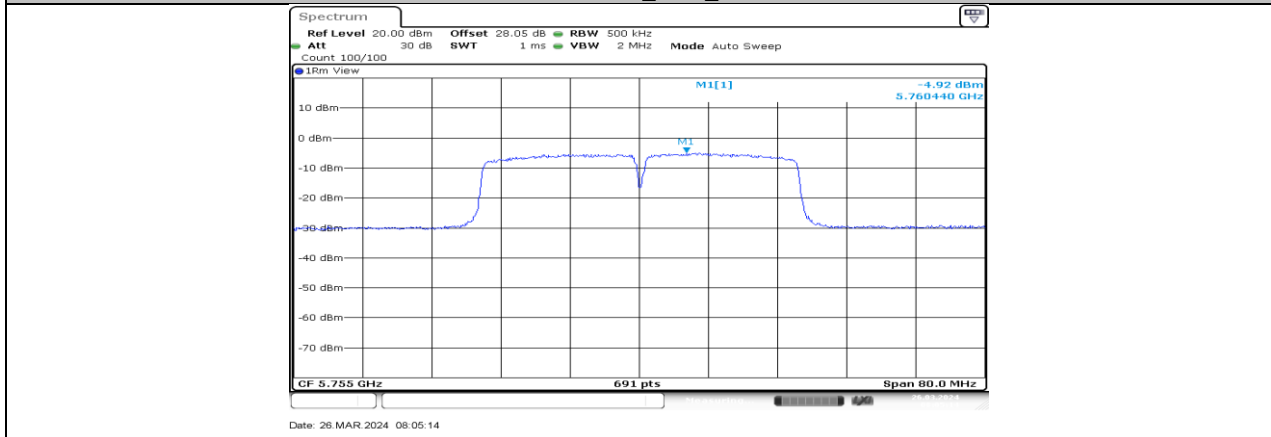
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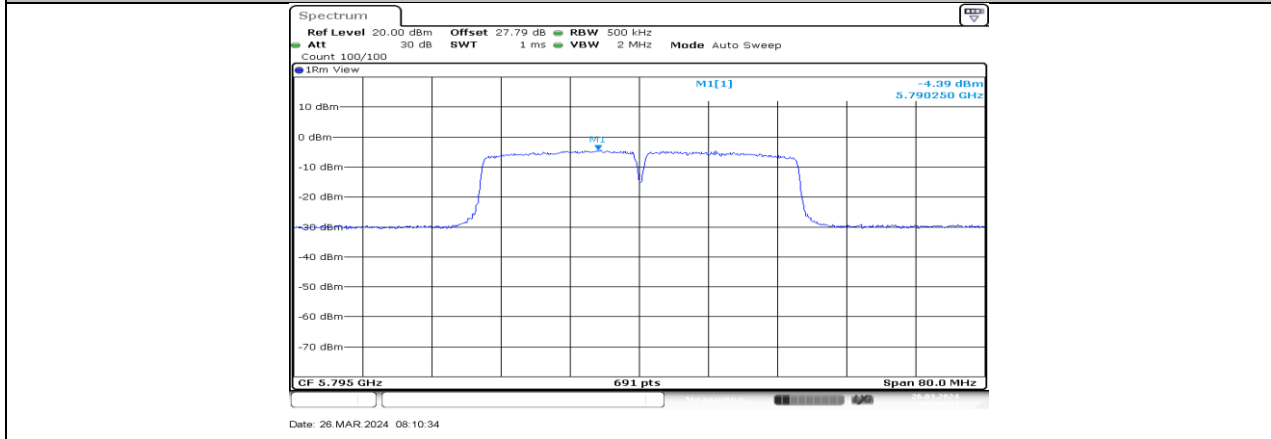
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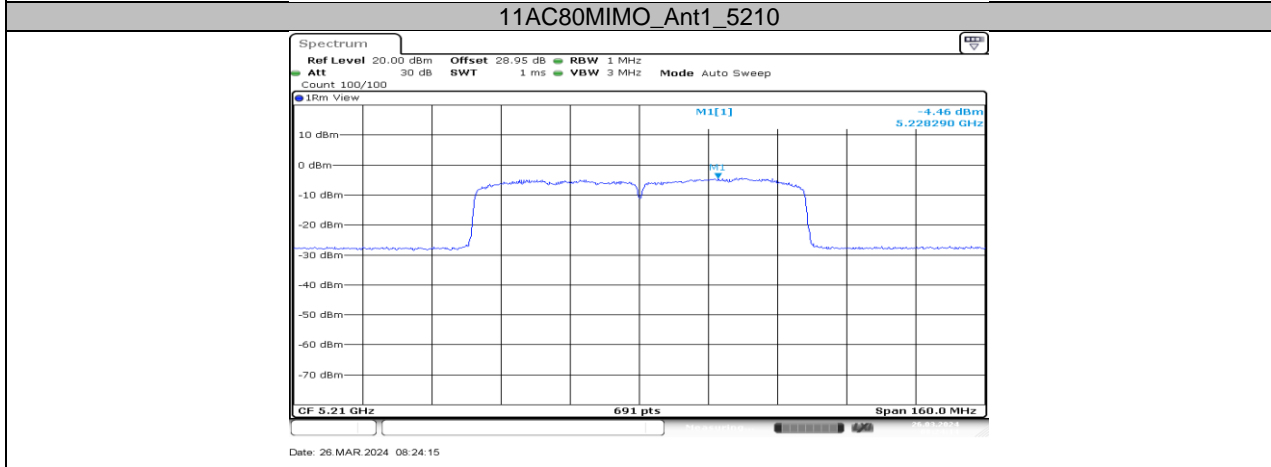
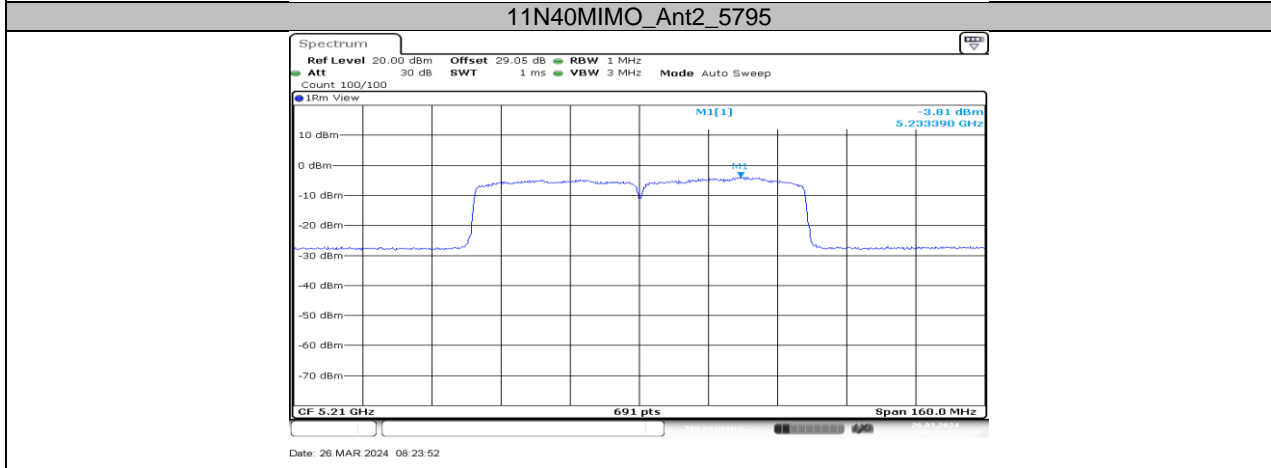
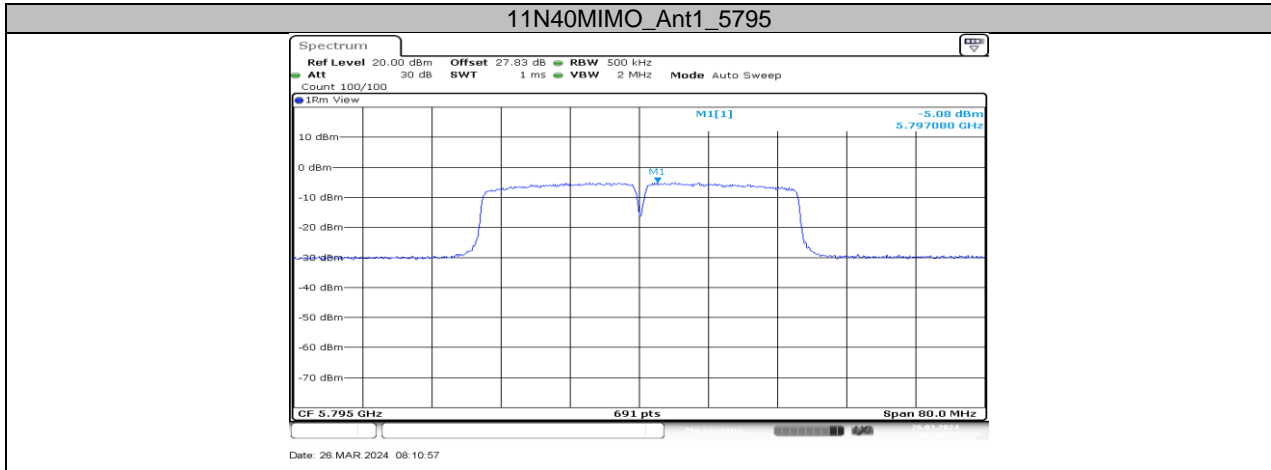


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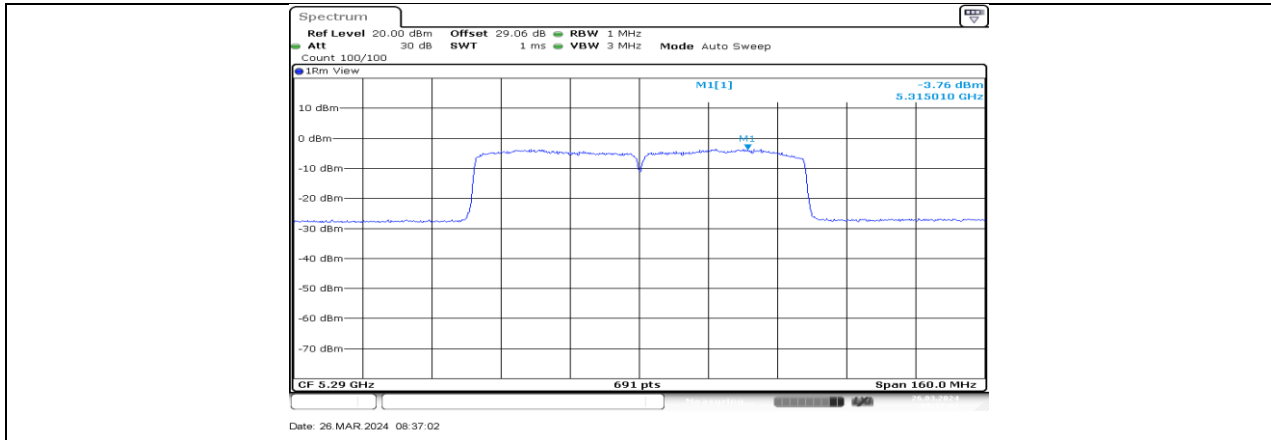


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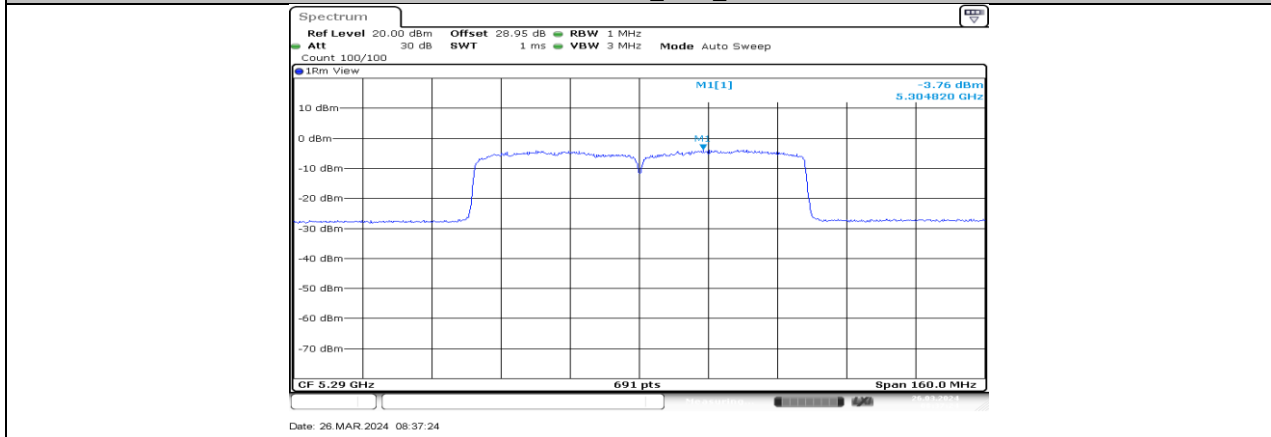




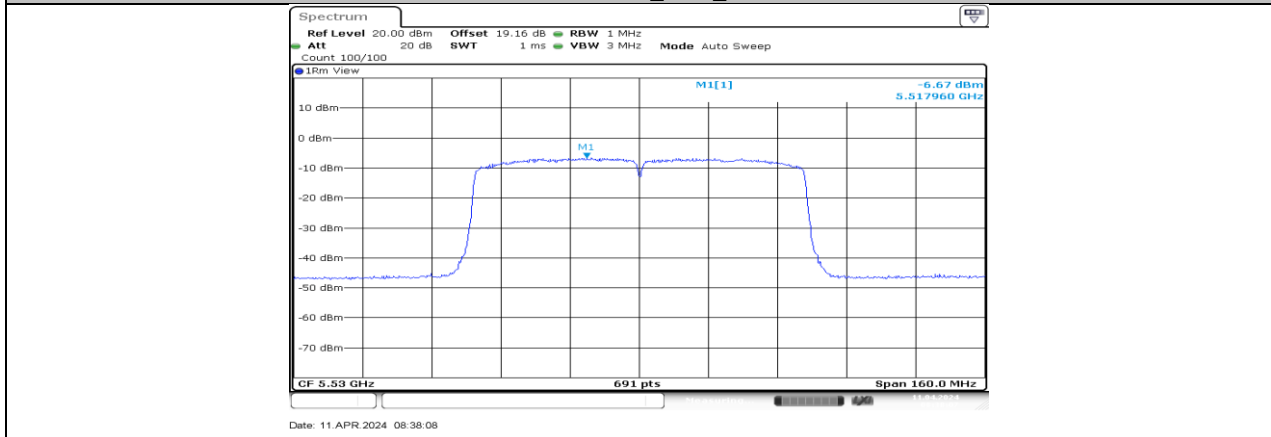
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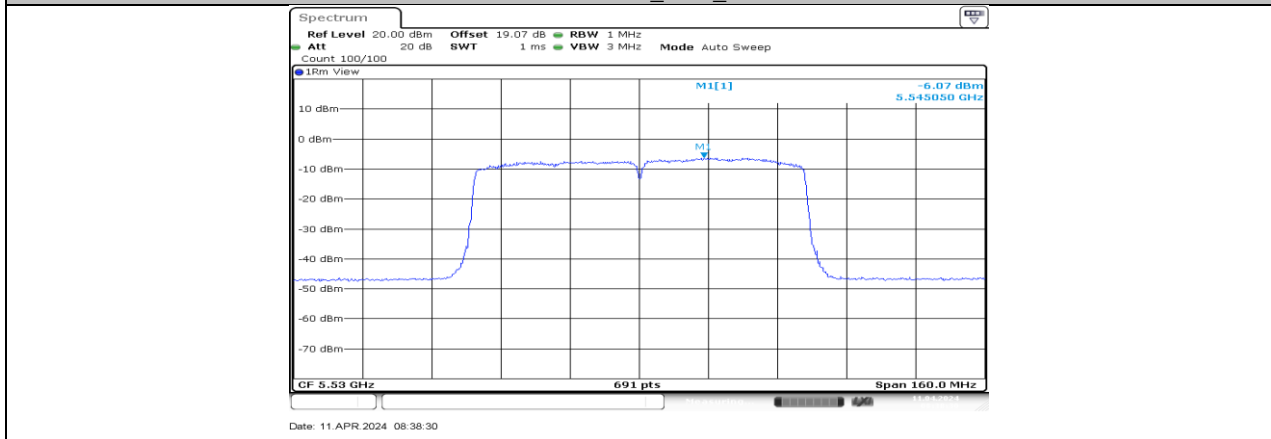
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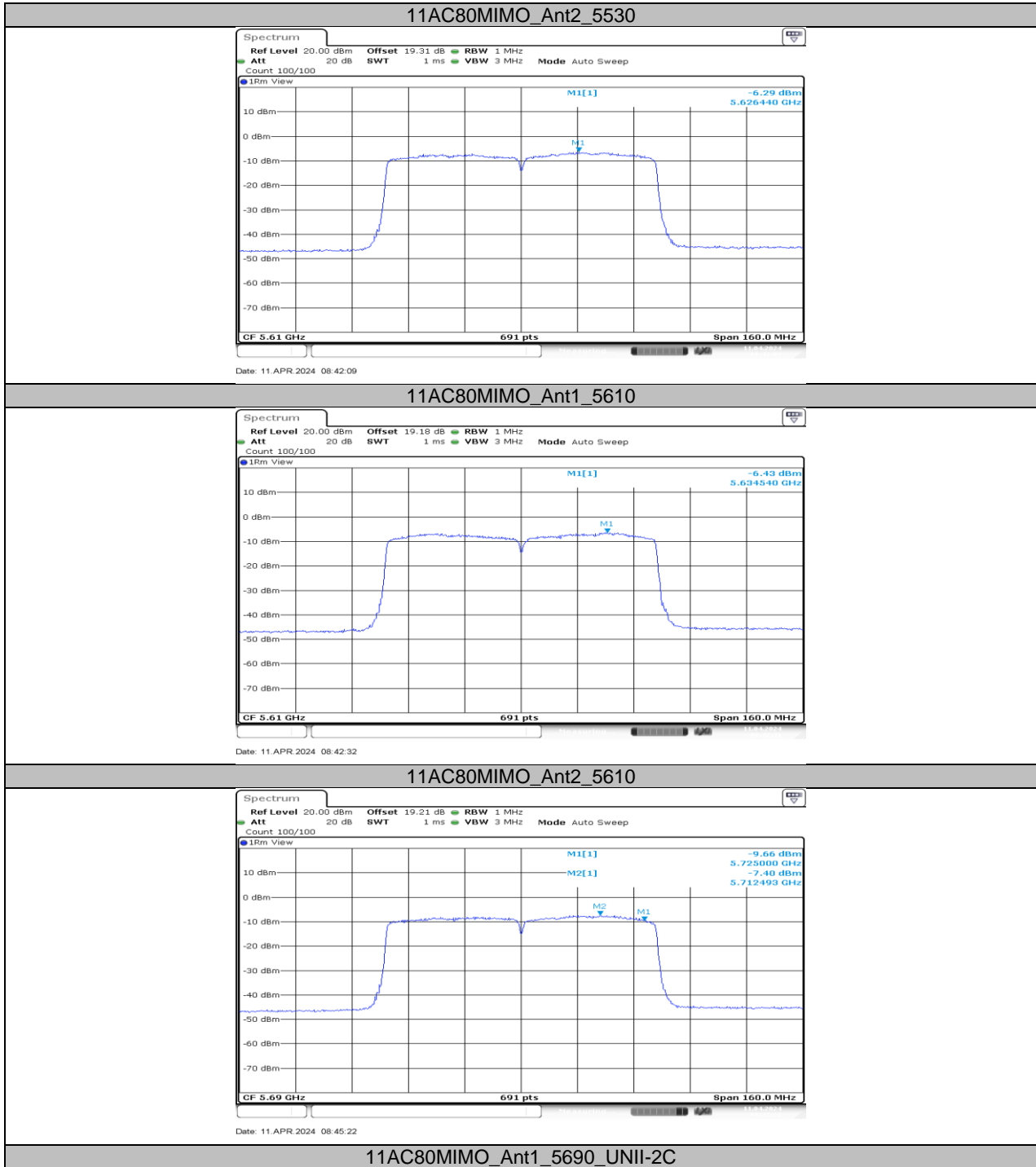


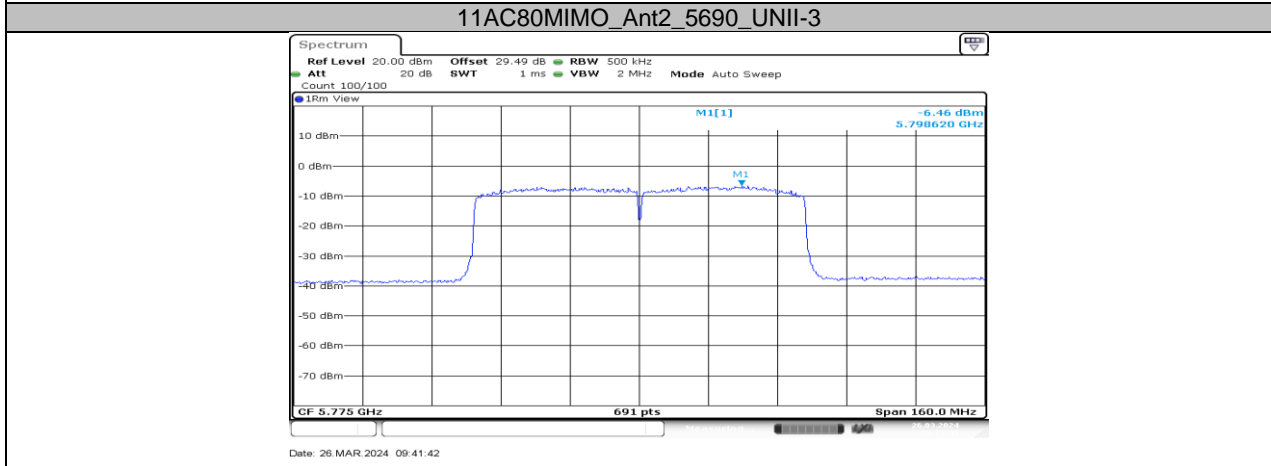
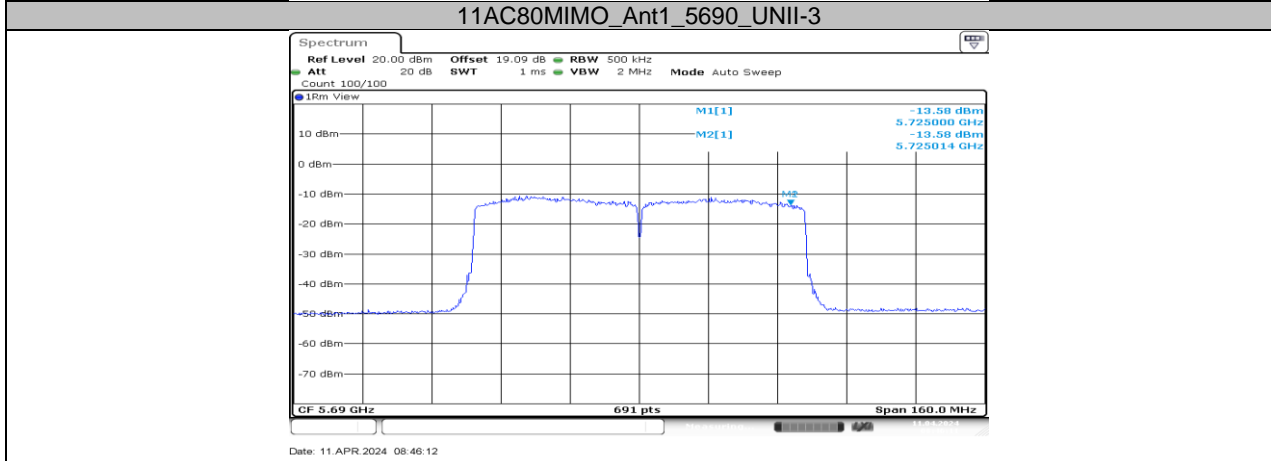
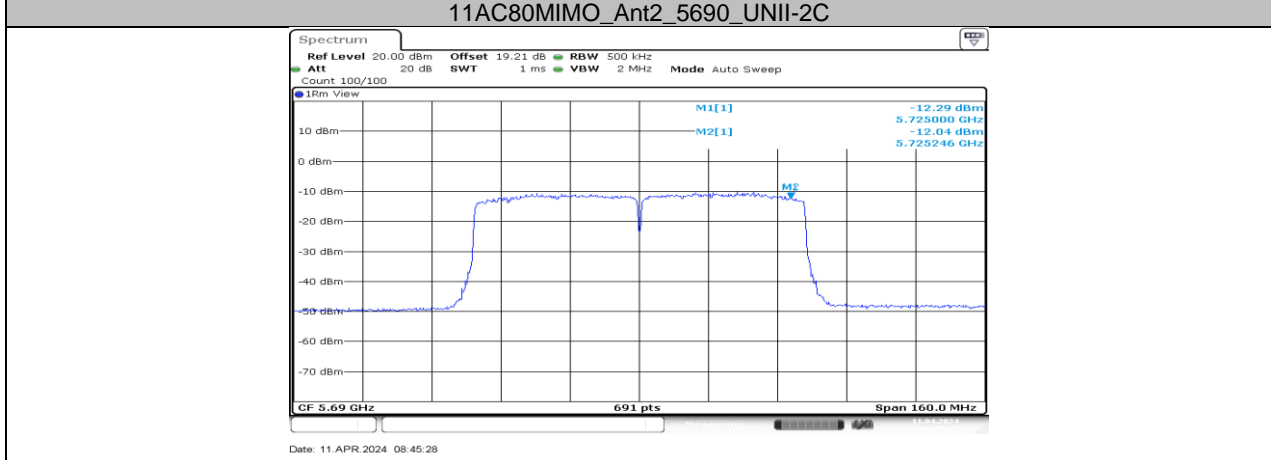
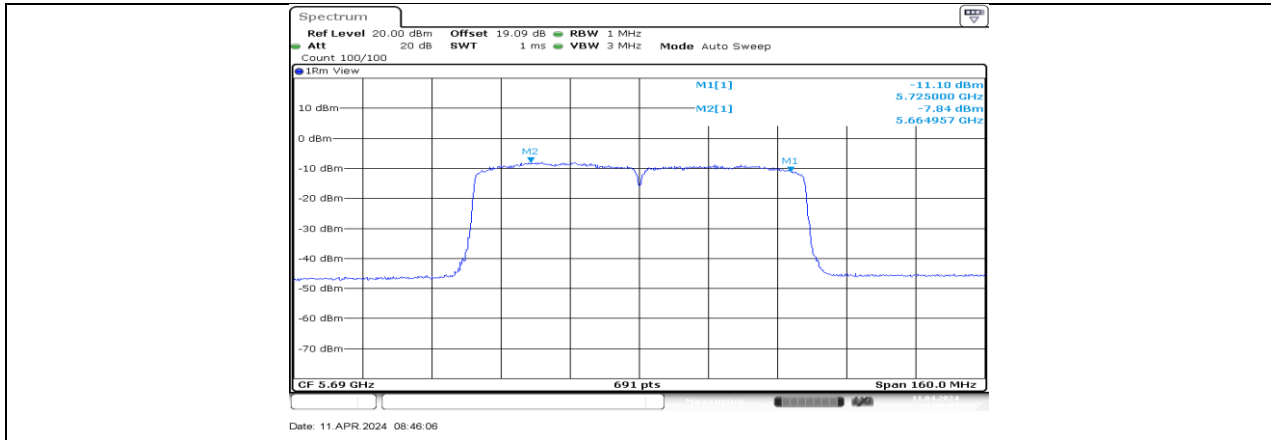
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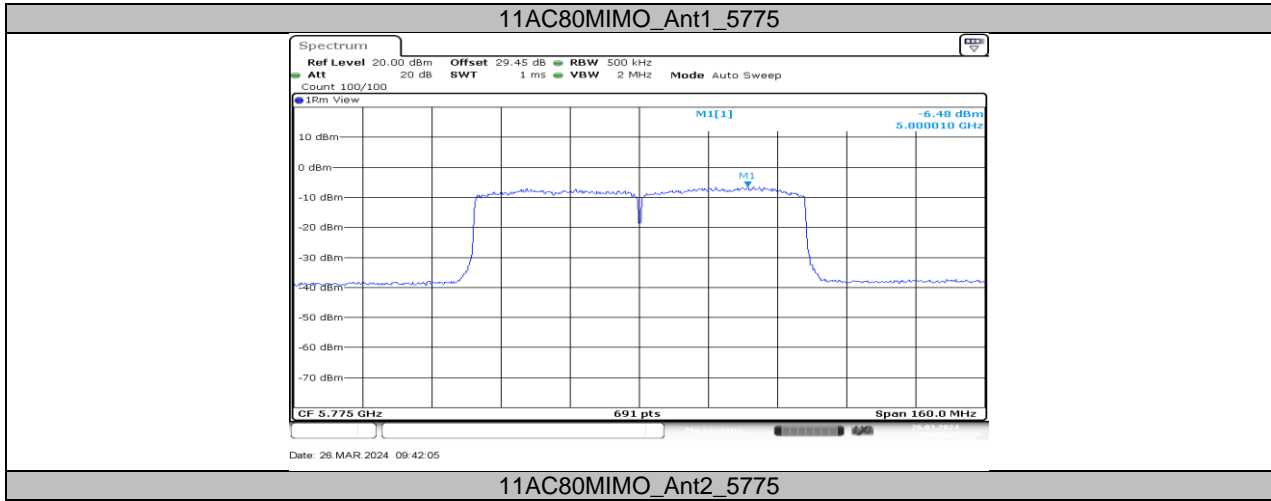


11AC80MIMO_Ant1_5530









11.6. APPENDIX F: DUTY CYCLE
11.6.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	1.34	1.83	0.7322	73.22	1.35	0.75	1
11G	1.26	1.76	0.7159	71.59	1.45	0.79	1
11N20MIMO	0.63	1.12	0.5625	56.25	2.50	1.59	2
11N40MIMO	0.31	0.81	0.3827	38.27	4.17	3.23	4

Note:

Duty Cycle Correction Factor=10log (1/x).

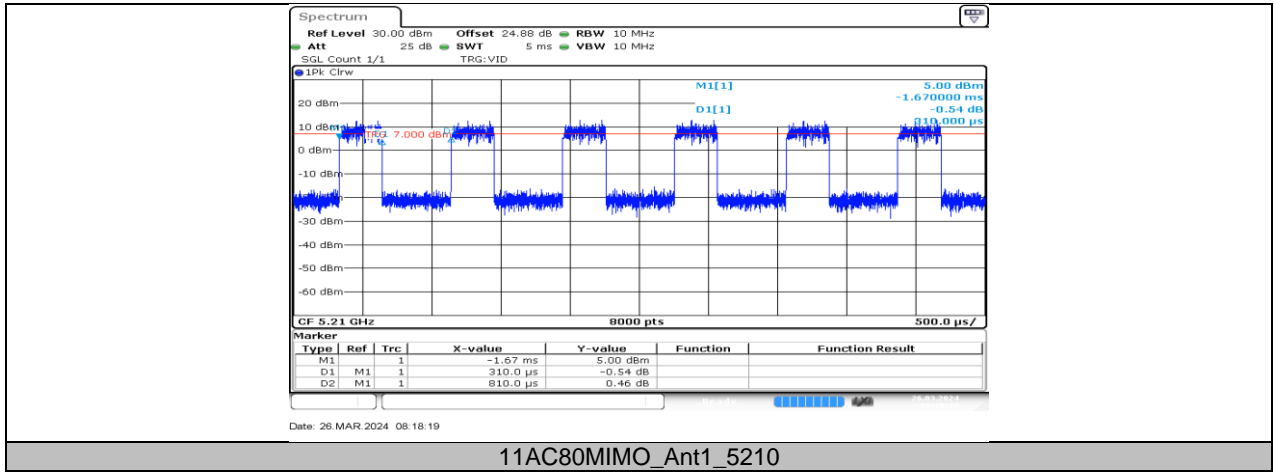
Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.6.2. Test Graphs





11.7. APPENDIX G: FREQUENCY STABILITY

11.7.1. Test Result

Frequency Error vs. Voltage									
802.11a:5180MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5180.0212	4.09	5180.0133	2.58	5179.9983	-0.33	5179.9793	-4.00
TN	VN	5180.0209	4.04	5180.0111	2.14	5179.9919	-1.56	5179.9804	-3.79
TN	VH	5179.9980	-0.38	5179.9840	-3.09	5179.9776	-4.33	5179.9882	-2.27

Frequency Error vs. Temperature									
802.11a:5180MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
70	VN	5180.0012	0.24	5179.9935	-1.26	5179.9997	-0.06	5179.9836	-3.16
60	VN	5179.9901	-1.92	5179.9755	-4.73	5180.0240	4.63	5180.0049	0.95
50	VN	5179.9957	-0.83	5179.9996	-0.07	5179.9796	-3.93	5180.0217	4.18
40	VN	5180.0114	2.19	5180.0089	1.72	5180.0225	4.34	5180.0085	1.65
30	VN	5179.9788	-4.09	5180.0149	2.88	5179.9968	-0.61	5180.0131	2.53
20	VN	5179.9776	-4.32	5179.9963	-0.72	5179.9860	-2.70	5179.9921	-1.53
10	VN	5180.0140	2.71	5180.0129	2.49	5179.9833	-3.22	5179.9765	-4.54
0	VN	5180.0058	1.13	5180.0243	4.69	5180.0029	0.56	5179.9944	-1.09

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

Frequency Error vs. Voltage									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5824.9782	-3.74	5825.0216	3.71	5825.0087	1.49	5824.9962	-0.65
TN	VN	5824.9966	-0.58	5825.0038	0.66	5824.9945	-0.94	5824.9882	-2.03
TN	VH	5824.9776	-3.84	5825.0248	4.26	5825.0161	2.76	5825.0086	1.47

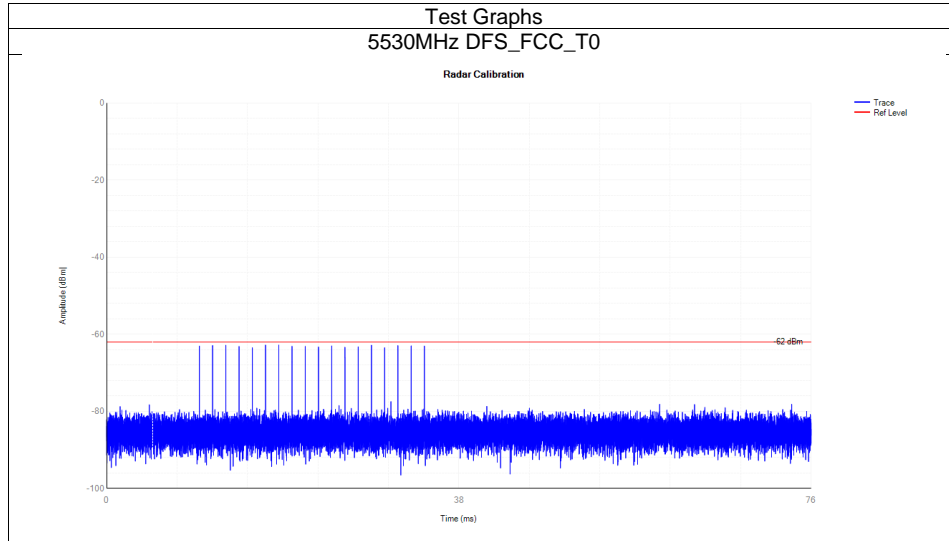
Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
70	VN	5825.0246	4.22	5824.9799	-3.44	5825.0116	2.00	5825.0245	4.20
60	VN	5824.9756	-4.19	5825.0218	3.75	5824.9972	-0.47	5824.9877	-2.11
50	VN	5824.9789	-3.63	5825.0223	3.83	5825.0058	0.99	5825.0053	0.92
40	VN	5824.9858	-2.43	5824.9979	-0.36	5824.9940	-1.02	5824.9834	-2.86
30	VN	5825.0044	0.76	5824.9817	-3.14	5825.0060	1.03	5824.9848	-2.61
20	VN	5824.9769	-3.97	5824.9838	-2.77	5824.9946	-0.92	5824.9838	-2.78
10	VN	5824.9862	-2.36	5825.0018	0.32	5824.9979	-0.36	5824.9957	-0.74
0	VN	5824.9944	-0.97	5824.9813	-3.21	5824.9827	-2.97	5825.0143	2.46

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

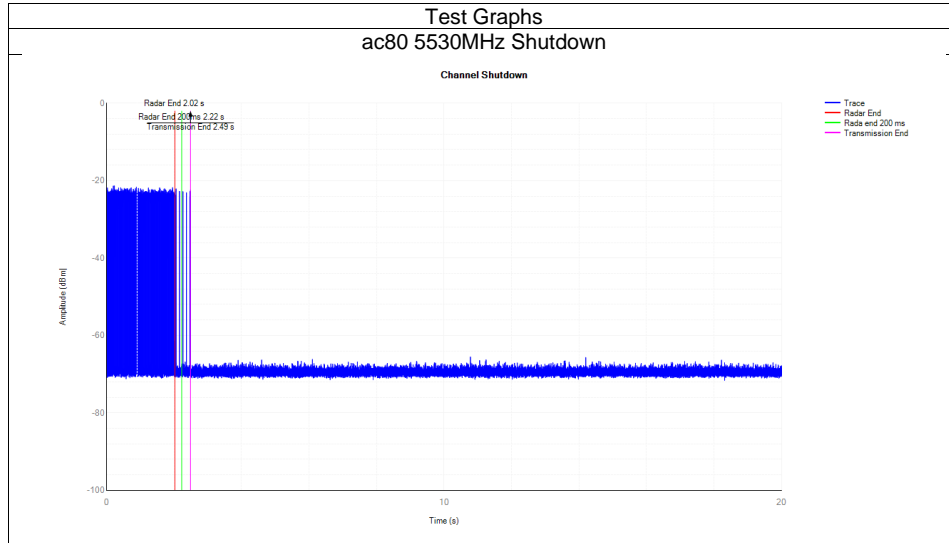
11.8. APPENDIX H: CALIBRATION

Mode	Frequency (MHz)	Type	Result	Verdict
ac80	5530	DFS_FCC_T0	See test Graph	Pass



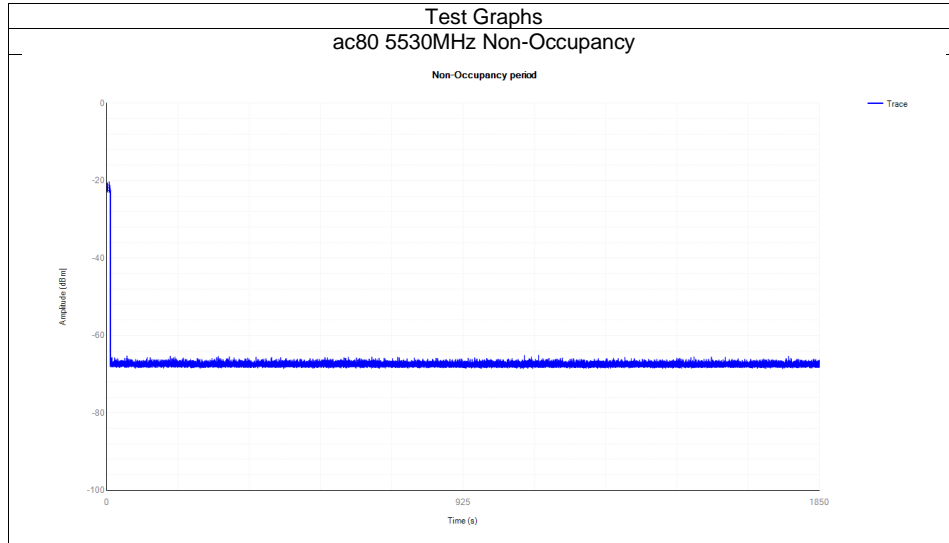
11.9. APPENDIX I: SHUTDOWN TIME

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac80	5530	0.463	10	0.009	0.26	0.006	0.06	Pass



11.10. APPENDIX J: NON-OCCUPANCY

Mode	Frequency (MHz)	Result	Verdict
ac80	5530	See test Graph	Pass



END OF REPORT