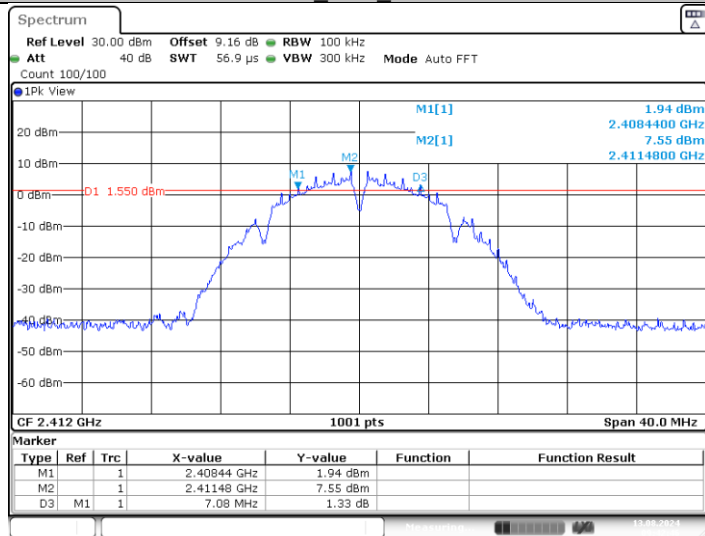


APPENDIX E - BANDWIDTH

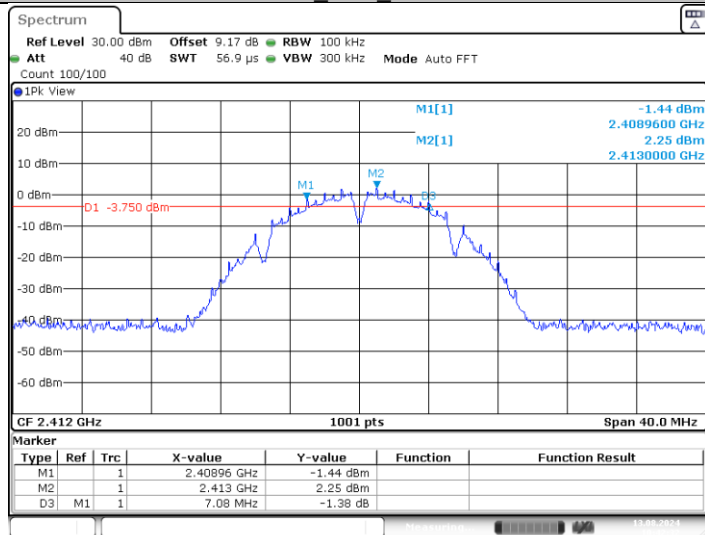
-6dB Bandwidth

11B	Ant1	2412	7.08	2408.44	2415.52	0.5	PASS
	Ant2	2412	7.08	2408.96	2416.04	0.5	PASS
	Ant1	2437	7.56	2433.44	2441.00	0.5	PASS
	Ant2	2437	8.08	2432.96	2441.04	0.5	PASS
	Ant1	2462	8.08	2457.48	2465.56	0.5	PASS
	Ant2	2462	8.08	2457.48	2465.56	0.5	PASS
11G	Ant1	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant2	2412	12.56	2406.96	2419.52	0.5	PASS
	Ant1	2437	15.08	2429.44	2444.52	0.5	PASS
	Ant2	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant1	2462	12.64	2455.68	2468.32	0.5	PASS
	Ant2	2462	14.08	2454.24	2468.32	0.5	PASS
11N20MIMO	Ant1	2412	17.52	2403.24	2420.76	0.5	PASS
	Ant2	2412	11.36	2406.96	2418.32	0.5	PASS
	Ant1	2437	16.64	2429.12	2445.76	0.5	PASS
	Ant2	2437	17.60	2428.20	2445.80	0.5	PASS
	Ant1	2462	15.12	2454.44	2469.56	0.5	PASS
	Ant2	2462	15.12	2454.44	2469.56	0.5	PASS
11N40MIMO	Ant1	2422	34.48	2405.68	2440.16	0.5	PASS
	Ant2	2422	30.64	2409.12	2439.76	0.5	PASS
	Ant1	2437	36.08	2418.84	2454.92	0.5	PASS
	Ant2	2437	24.48	2430.12	2454.60	0.5	PASS
	Ant1	2452	25.04	2444.48	2469.52	0.5	PASS
	Ant2	2452	25.12	2444.40	2469.52	0.5	PASS

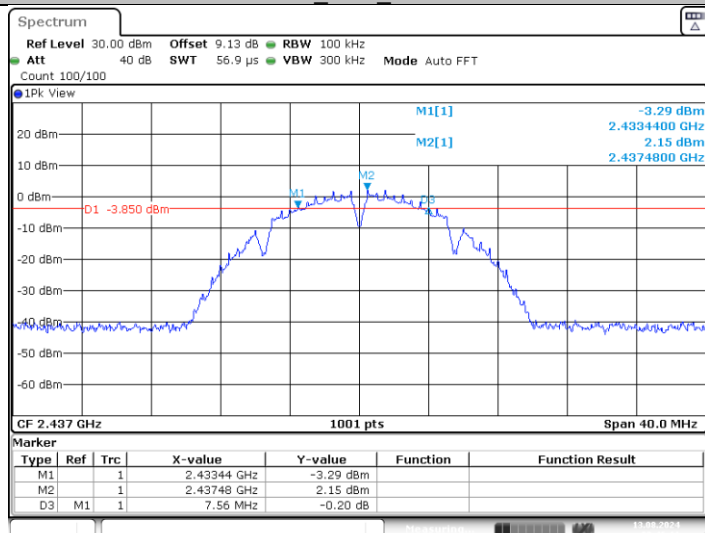
11B_Ant1_2412



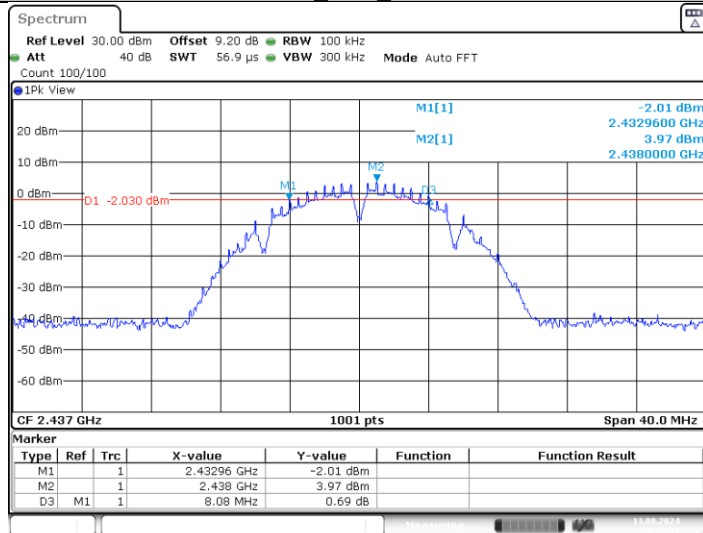
11B_Ant2_2412



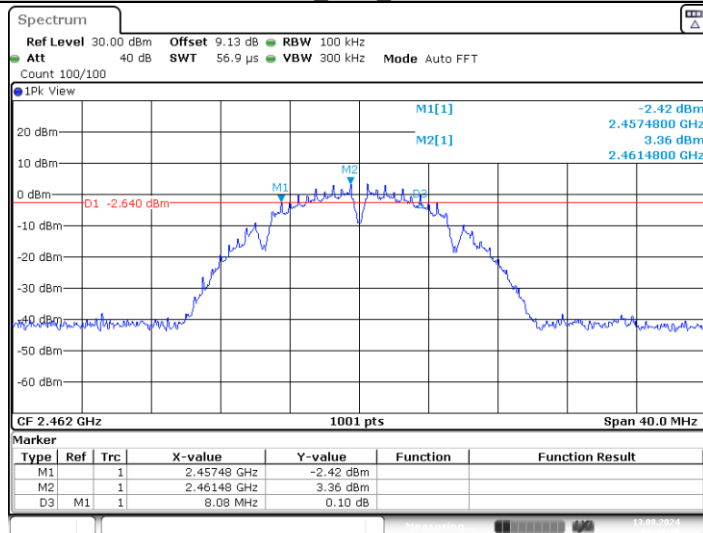
11B_Ant1_2437



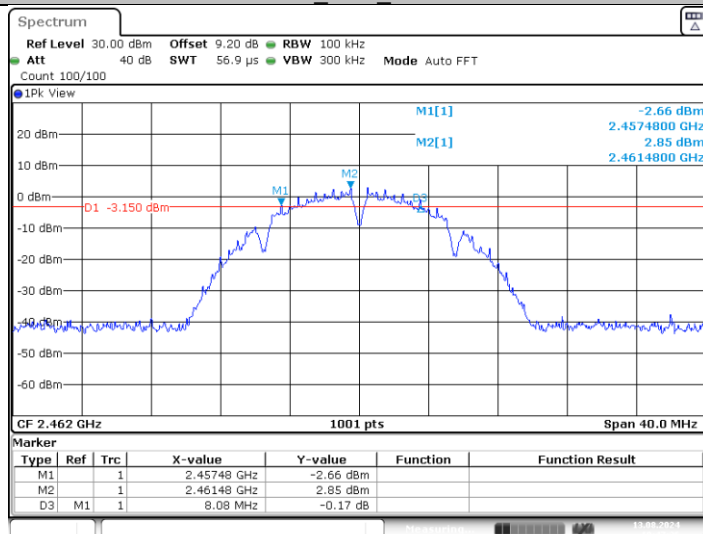
11B_Ant2_2437



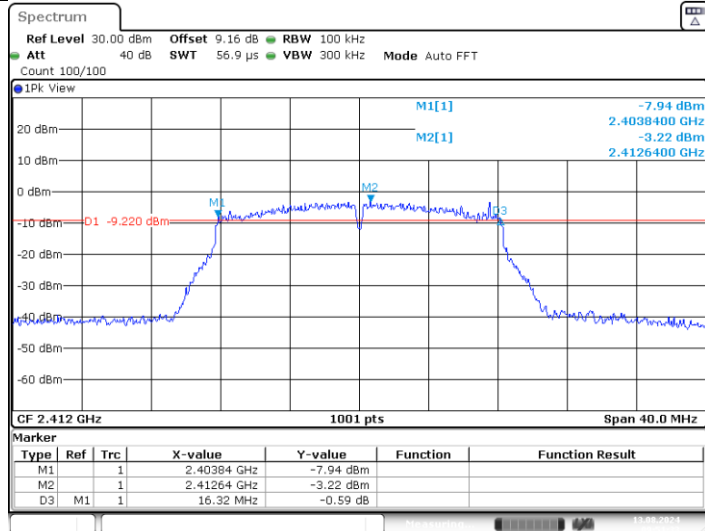
11B_Ant1_2462



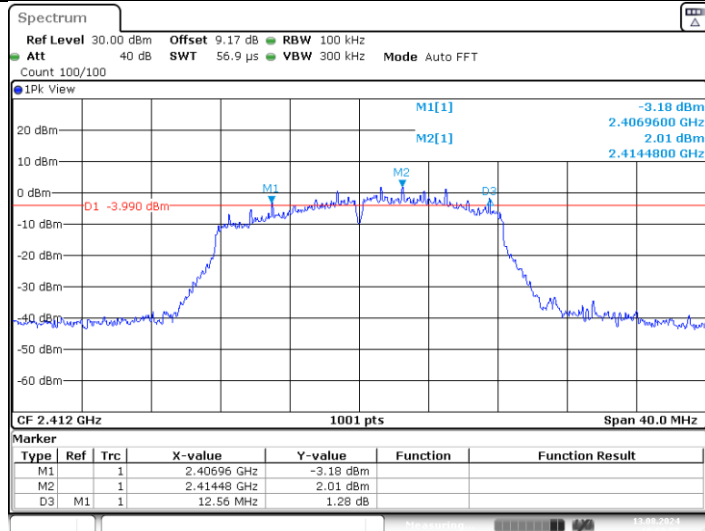
11B_Ant2_2462



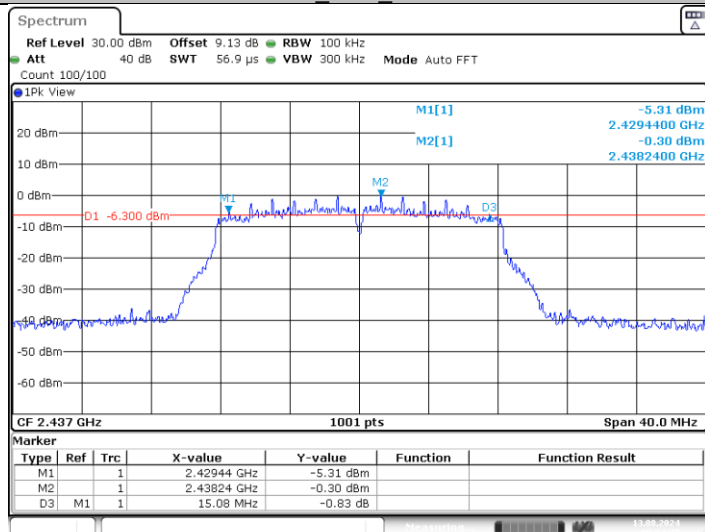
11G_Ant1_2412



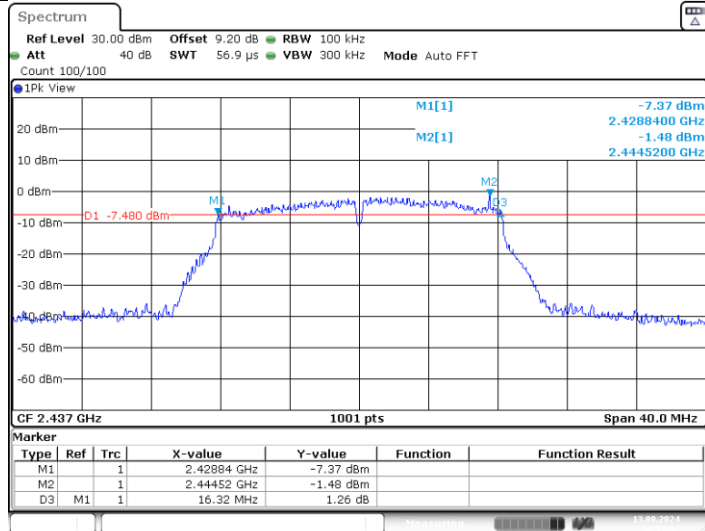
11G_Ant2_2412



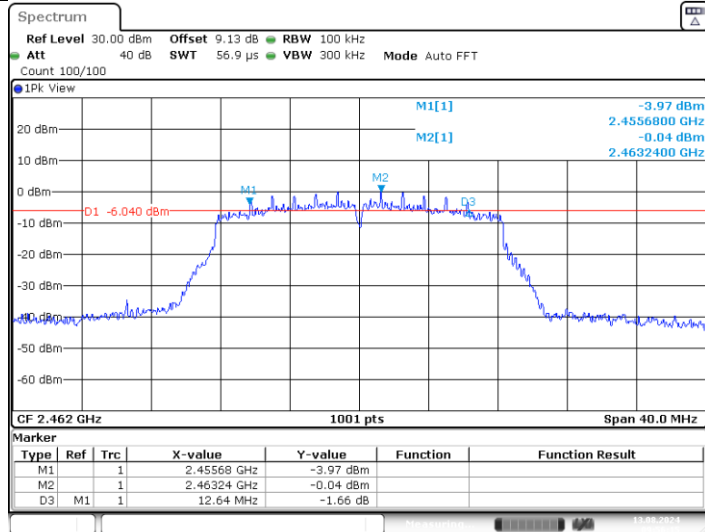
11G_Ant1_2437



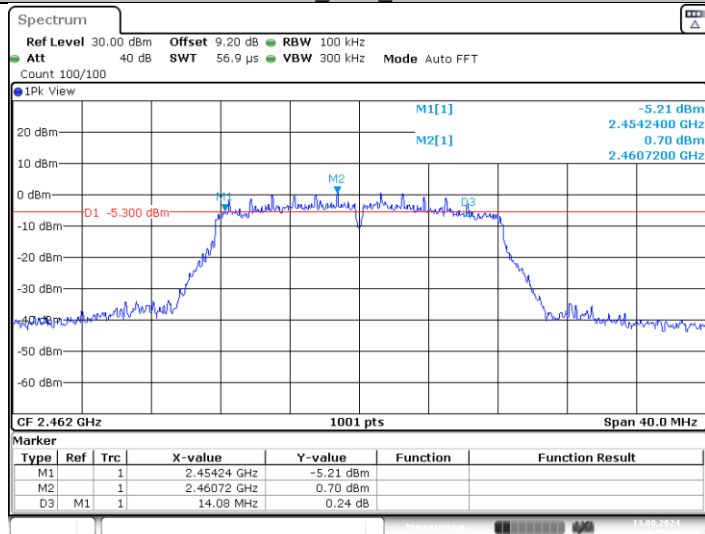
11G_Ant2_2437



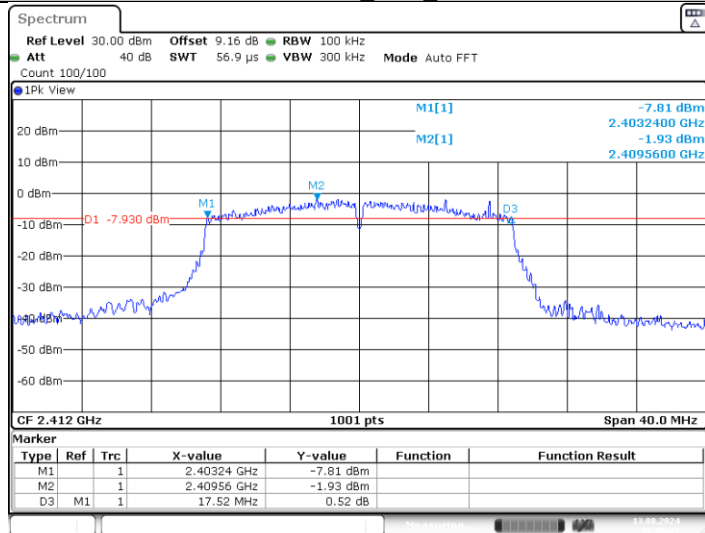
11G_Ant1_2462



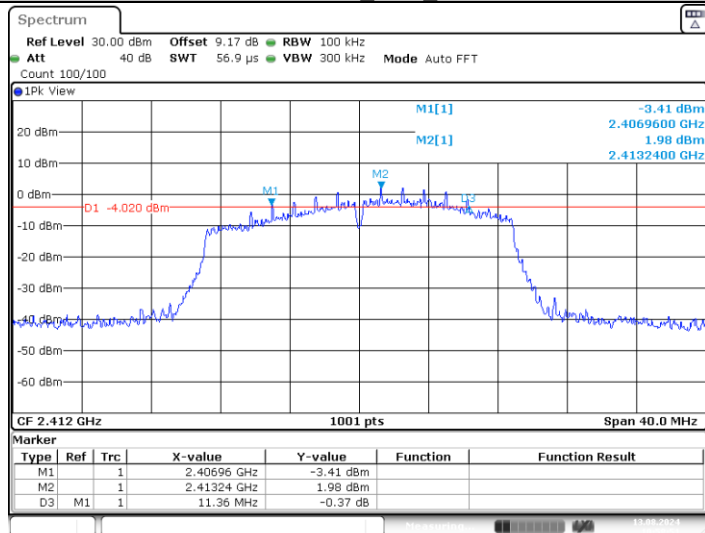
11G_Ant2_2462



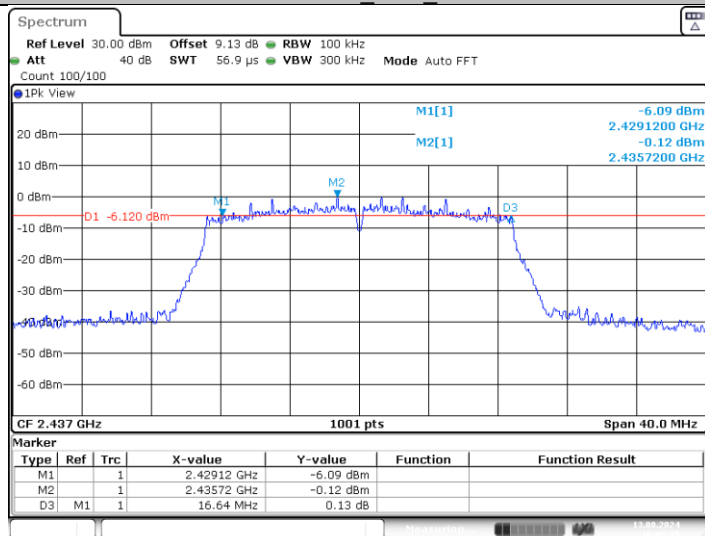
11N20MIMO_Ant1_2412



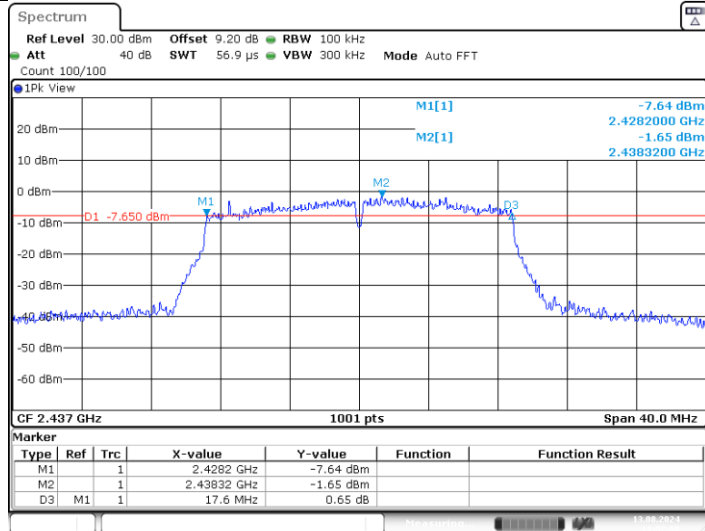
11N20MIMO_Ant2_2412



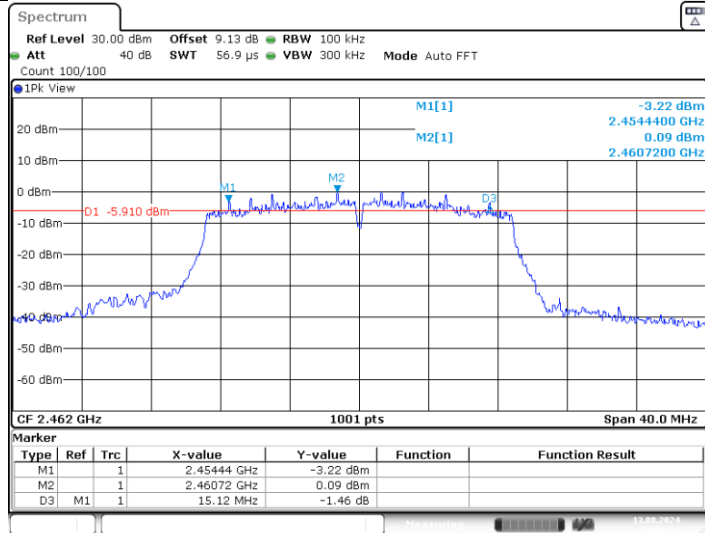
11N20MIMO_Ant1_2437



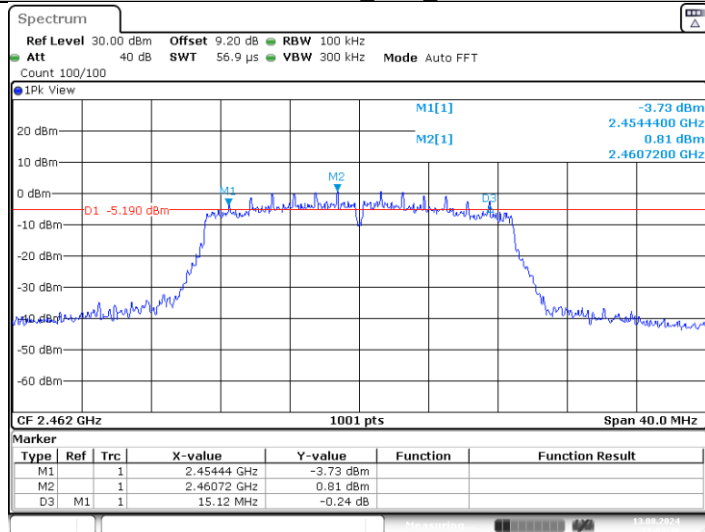
11N20MIMO_Ant2_2437



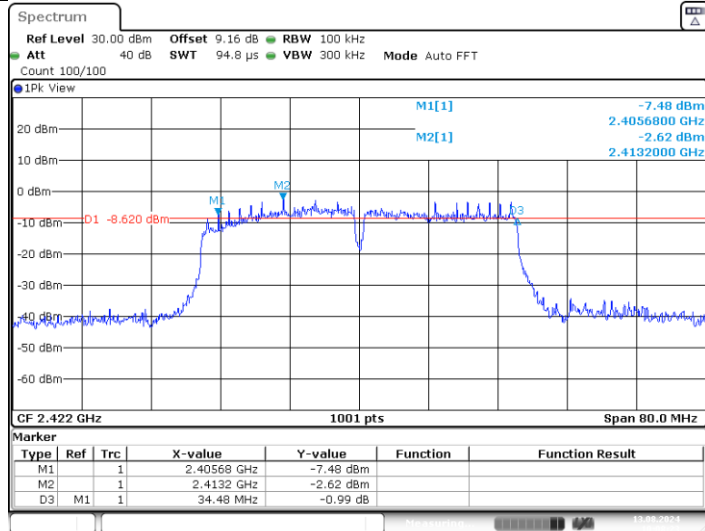
11N20MIMO_Ant1_2462



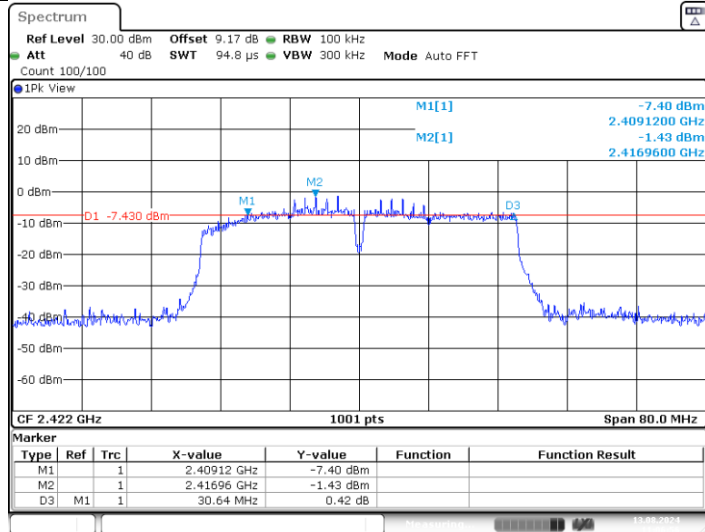
11N20MIMO_Ant2_2462



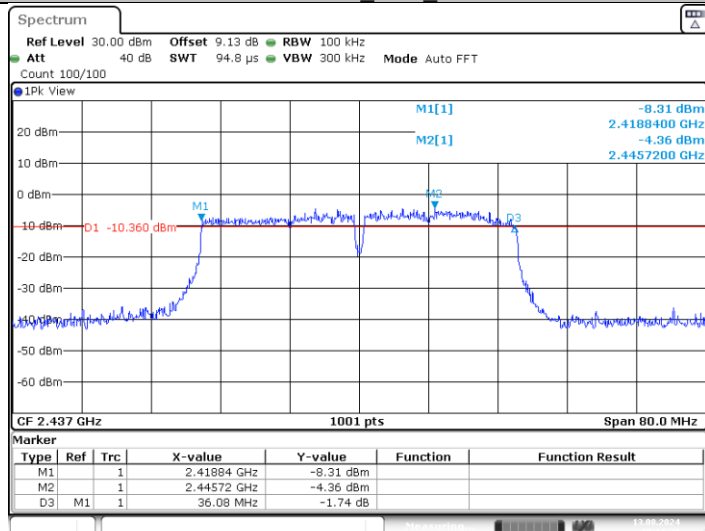
11N40MIMO_Ant1_2422



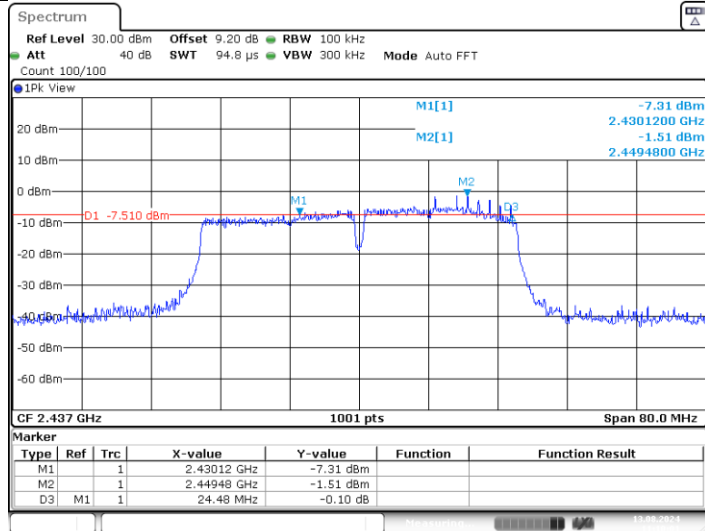
11N40MIMO_Ant2_2422



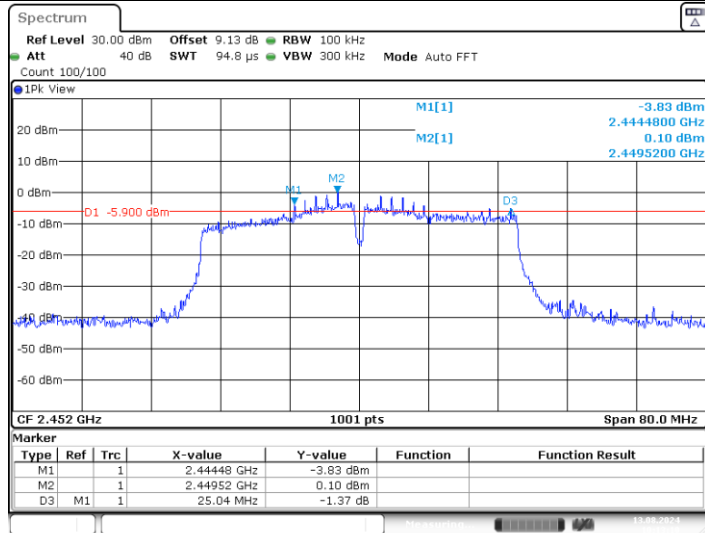
11N40MIMO_Ant1_2437



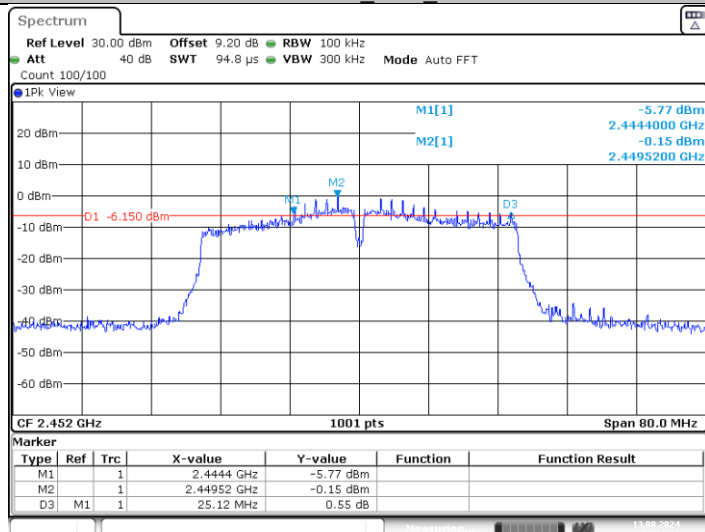
11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



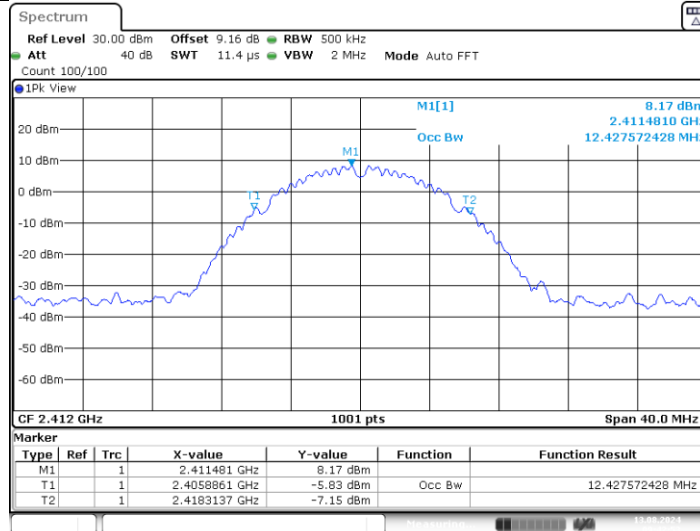
11N40MIMO_Ant2_2452



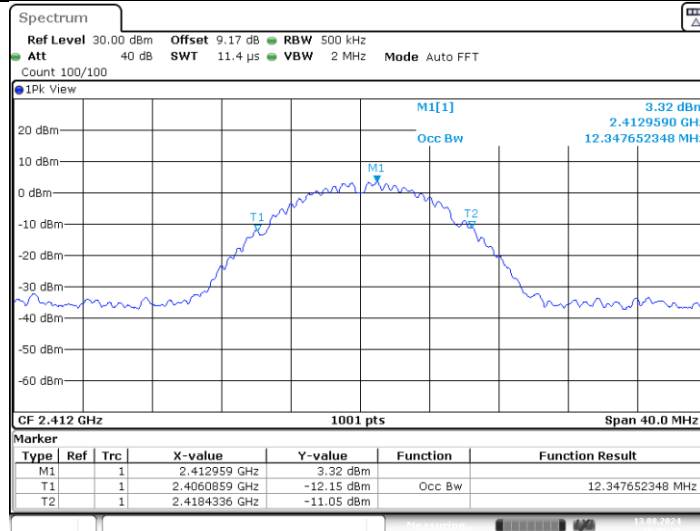
99% Occupied Bandwidth

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.428	2405.8861	2418.3137	---	---
	Ant2	2412	12.348	2406.0859	2418.4336	---	---
	Ant1	2437	12.987	2430.6064	2443.5934	---	---
	Ant2	2437	12.907	2430.7263	2443.6334	---	---
	Ant1	2462	13.187	2455.4066	2468.5934	---	---
	Ant2	2462	13.027	2455.4066	2468.4336	---	---
11G	Ant1	2412	16.743	2403.7283	2420.4715	---	---
	Ant2	2412	16.503	2404.0480	2420.5514	---	---
	Ant1	2437	17.063	2428.4486	2445.5115	---	---
	Ant2	2437	17.063	2428.5684	2445.6314	---	---
	Ant1	2462	16.783	2453.4885	2470.2717	---	---
	Ant2	2462	16.623	2453.6883	2470.3117	---	---
11N20MIMO	Ant1	2412	17.702	2403.1289	2420.8312	---	---
	Ant2	2412	17.463	2403.4486	2420.9111	---	---
	Ant1	2437	17.822	2428.1289	2445.9510	---	---
	Ant2	2437	17.742	2428.2088	2445.9510	---	---
	Ant1	2462	17.782	2453.0090	2470.7912	---	---
	Ant2	2462	17.902	2452.9291	2470.8312	---	---
11N40MIMO	Ant1	2422	36.044	2404.5774	2440.6214	---	---
	Ant2	2422	36.124	2404.0979	2440.2218	---	---
	Ant1	2437	36.204	2418.8581	2455.0619	---	---
	Ant2	2437	36.204	2418.8581	2455.0619	---	---
	Ant1	2452	36.364	2434.0979	2470.4615	---	---
	Ant2	2452	36.124	2434.0979	2470.2218	---	---

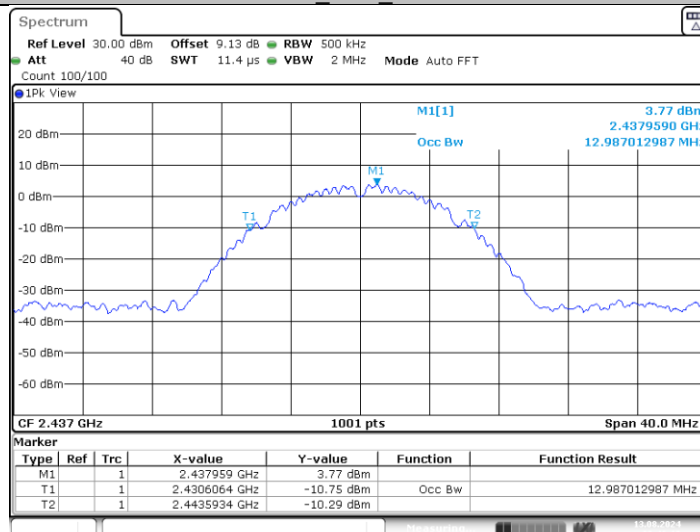
11B_Ant1_2412



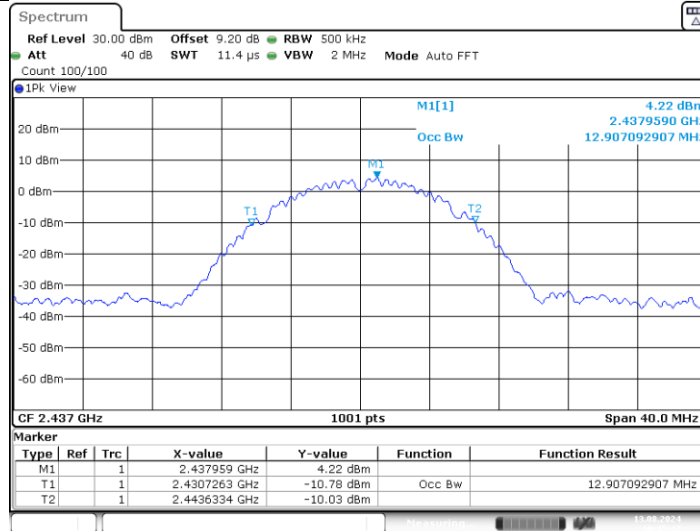
11B_Ant2_2412



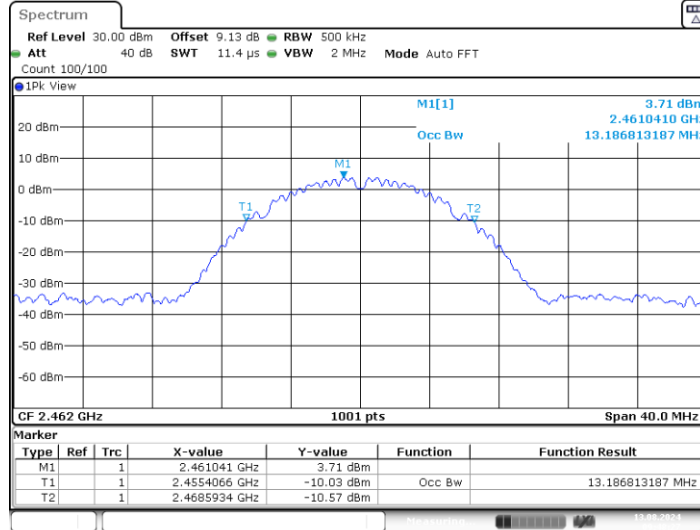
11B_Ant1_2437



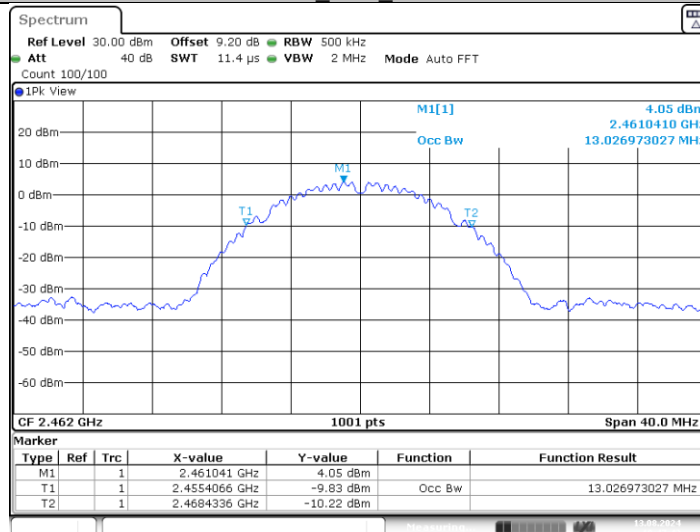
11B_Ant2_2437



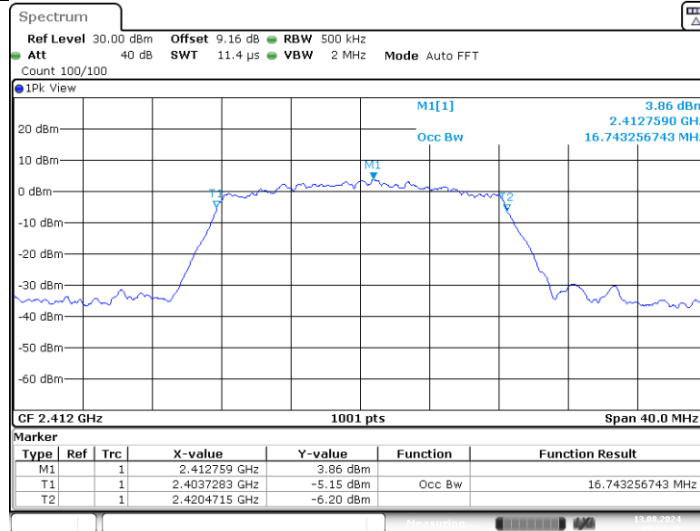
11B_Ant1_2462



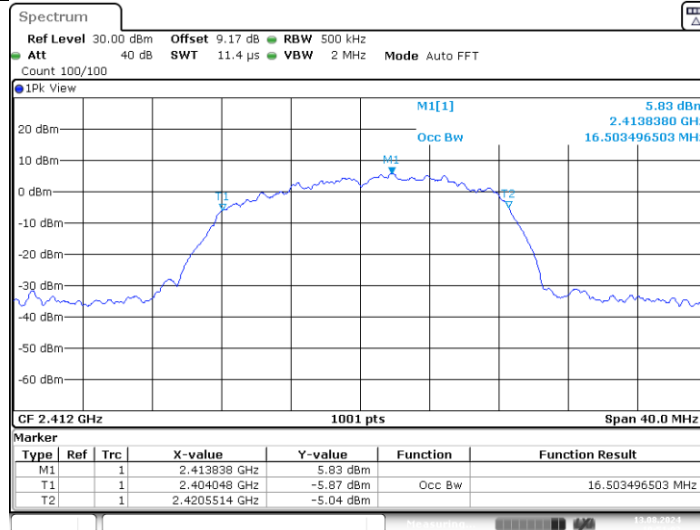
11B_Ant2_2462



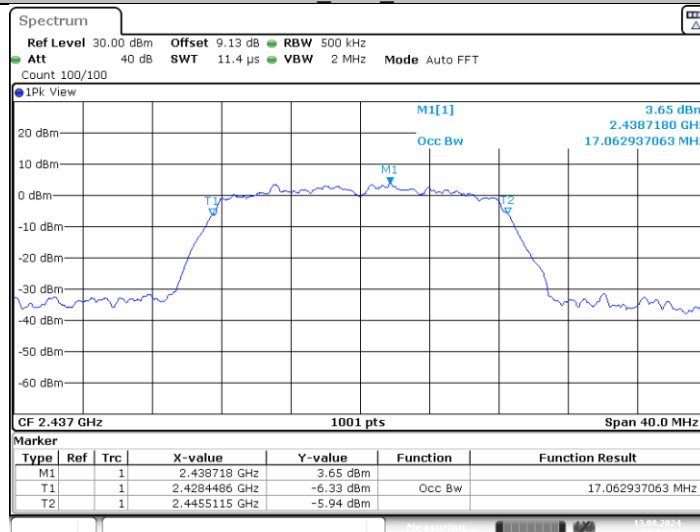
11G_Ant1_2412



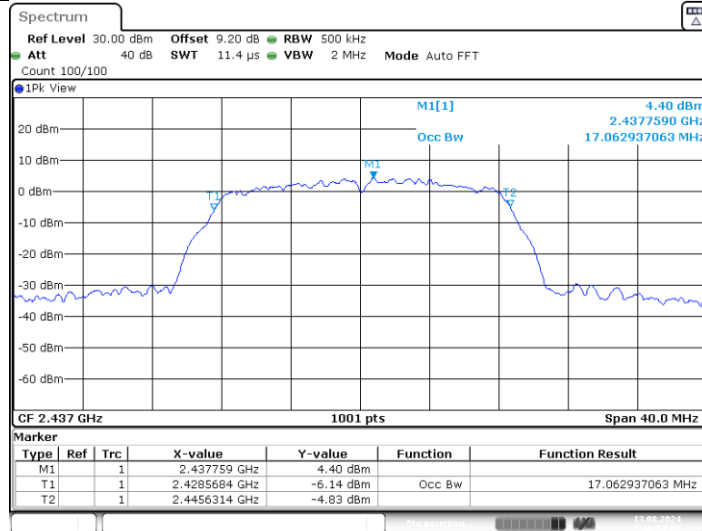
11G_Ant2_2412



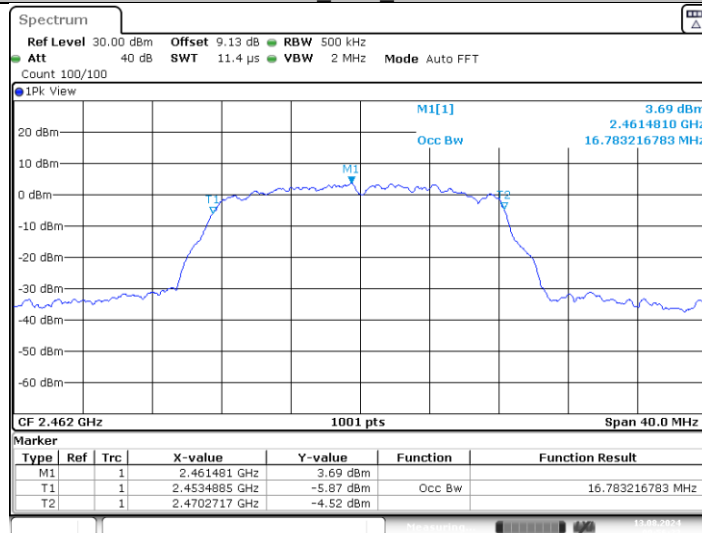
11G_Ant1_2437



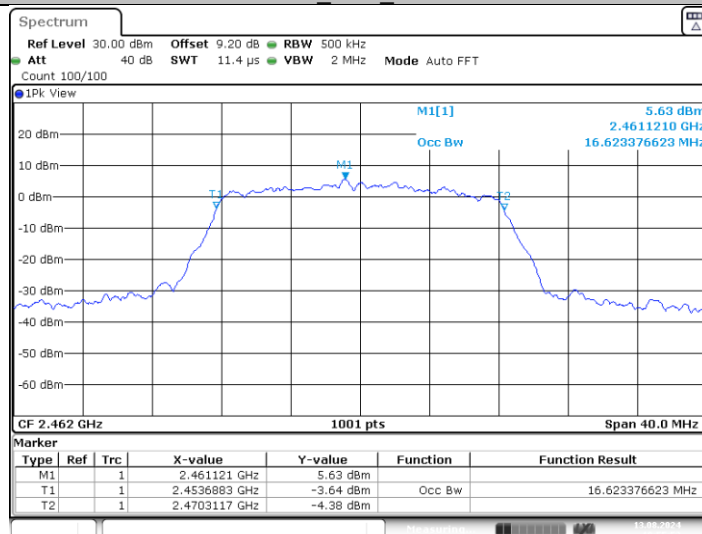
11G_Ant2_2437



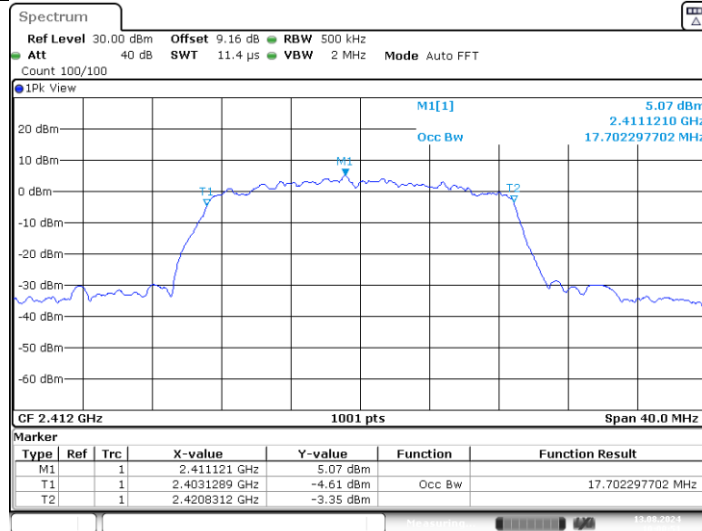
11G_Ant1_2462



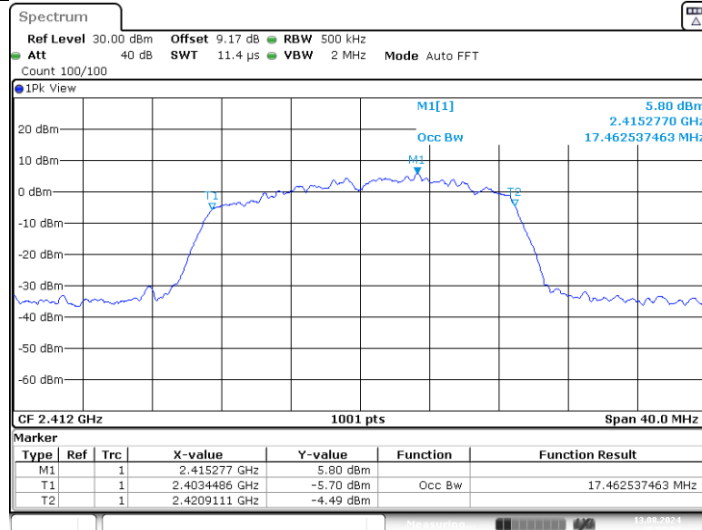
11G_Ant2_2462



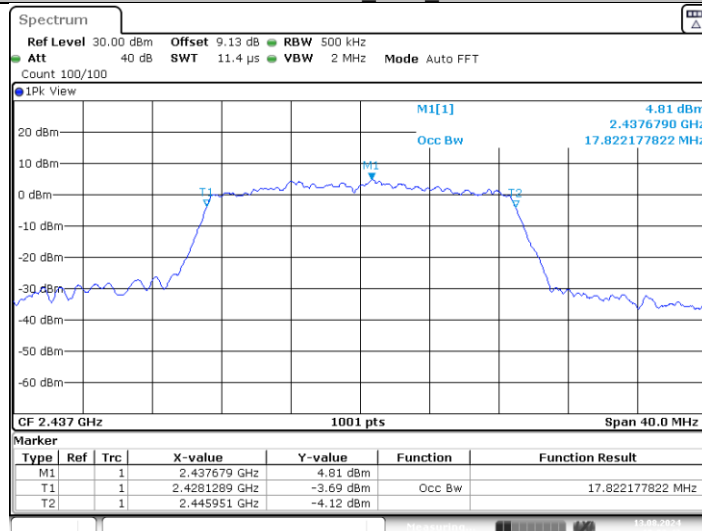
11N20MIMO Ant1_2412



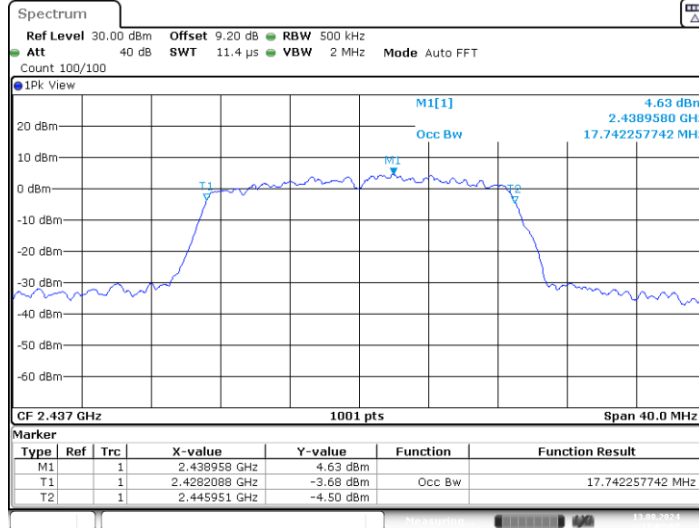
11N20MIMO Ant2_2412



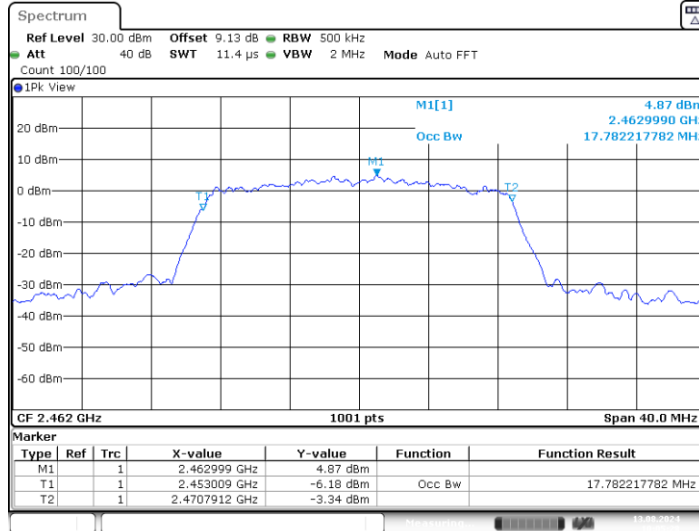
11N20MIMO Ant1_2437



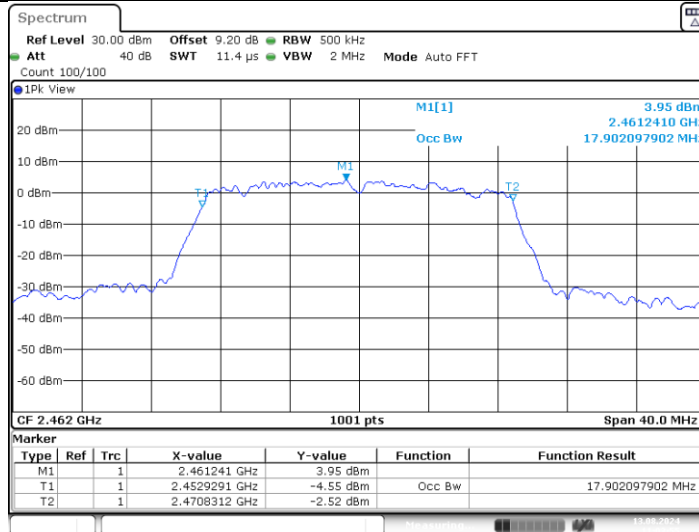
11N20MIMO Ant2_2437



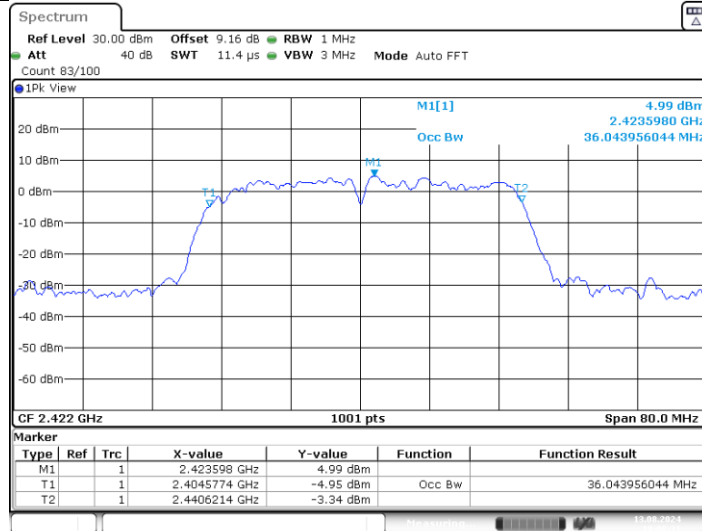
11N20MIMO Ant1_2462



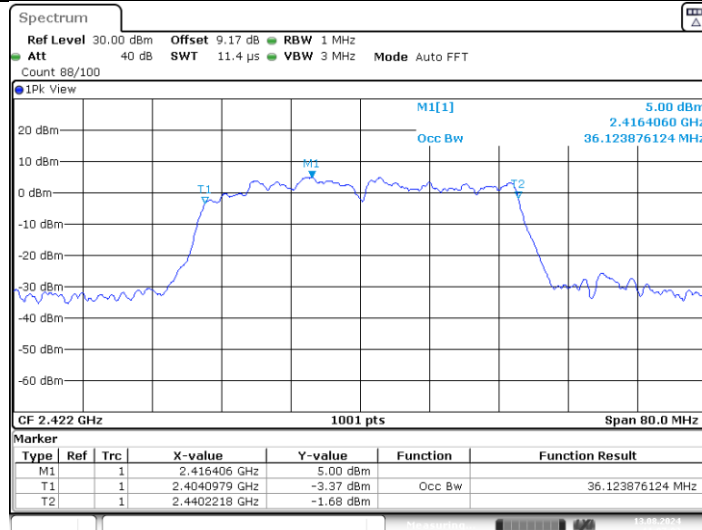
11N20MIMO Ant2_2462



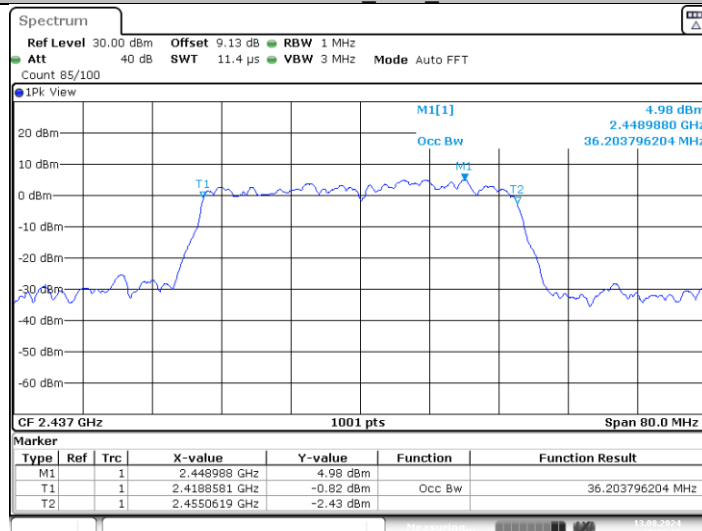
11N40MIMO Ant1_2422



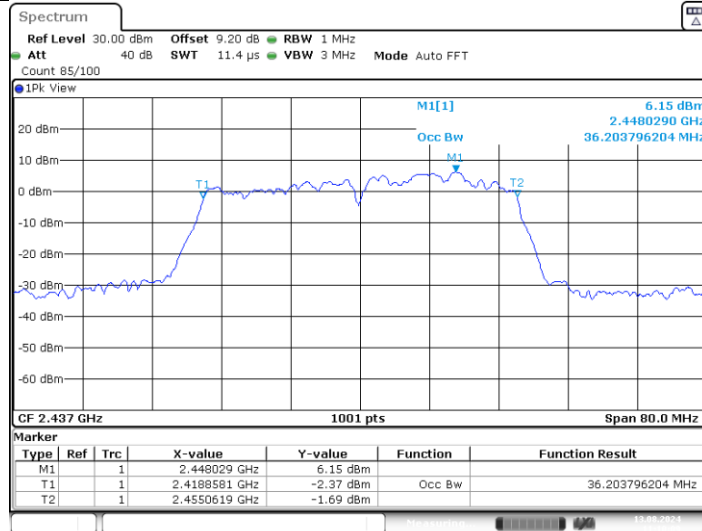
11N40MIMO Ant2_2422



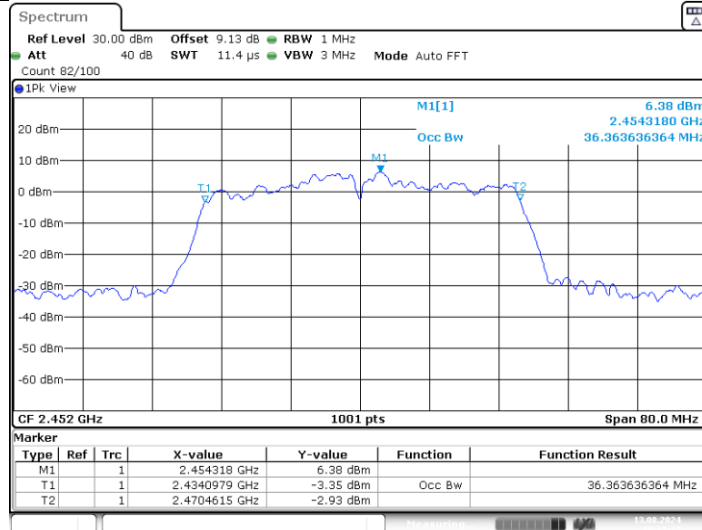
11N40MIMO Ant1_2437



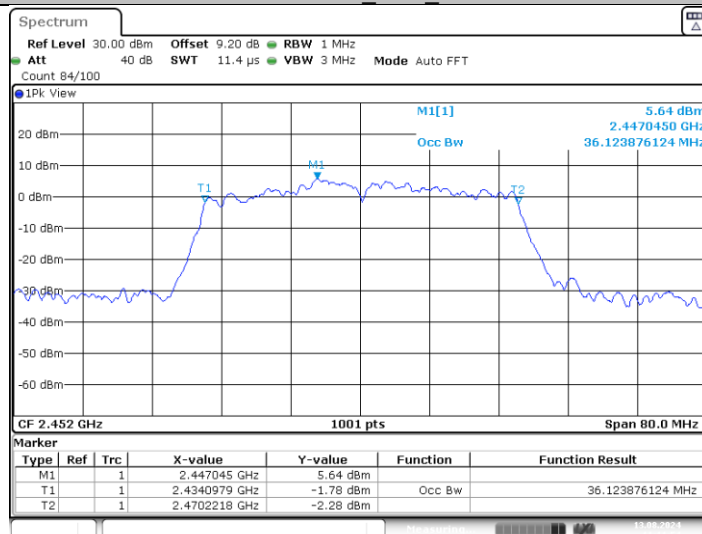
11N40MIMO Ant2_2437



11N40MIMO Ant1_2452



11N40MIMO Ant2_2452



APPENDIX F - MAXIMUM OUTPUT POWER

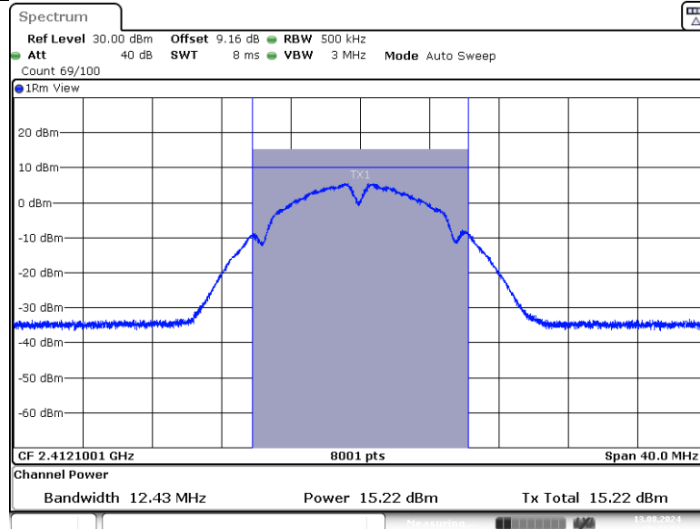
Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	EIRP (dBm)	Limit (dBm)	Verdict
11B	Ant1	2412	15.22	100.00	0.00	15.22	≤30.00	16.76	36	PASS
	Ant2	2412	10.26	99.76	0.01	10.27	≤30.00	8.55	36	PASS
	Ant1	2437	11.04	99.64	0.02	11.06	≤30.00	12.60	36	PASS
	Ant2	2437	11.45	99.76	0.01	11.46	≤30.00	9.74	36	PASS
	Ant1	2462	11.16	85.18	0.70	11.86	≤30.00	13.40	36	PASS
	Ant2	2462	11.44	99.64	0.02	11.46	≤30.00	9.74	36	PASS
11G	Ant1	2412	9.97	97.20	0.12	10.09	≤30.00	11.63	36	PASS
	Ant2	2412	10.90	97.20	0.12	11.02	≤30.00	9.30	36	PASS
	Ant1	2437	9.73	97.20	0.12	9.85	≤30.00	11.39	36	PASS
	Ant2	2437	11.16	97.20	0.12	11.28	≤30.00	9.56	36	PASS
	Ant1	2462	10.07	97.20	0.12	10.19	≤30.00	11.73	36	PASS
	Ant2	2462	10.85	97.20	0.12	10.97	≤30.00	9.25	36	PASS
11N20MI MO	Ant1	2412	10.66	97.01	0.13	10.79	≤30.00	12.33	36	PASS
	Ant2	2412	10.87	97.01	0.13	11.00	≤30.00	9.28	36	PASS
	total	2412	---	---	---	13.91	≤30.00	14.08	36	PASS
	Ant1	2437	11.02	97.01	0.13	11.15	≤30.00	12.69	36	PASS
	Ant2	2437	11.00	97.01	0.13	11.13	≤30.00	9.41	36	PASS
	total	2437	---	---	---	14.15	≤30.00	14.36	36	PASS
	Ant1	2462	10.94	97.01	0.13	11.07	≤30.00	12.61	36	PASS
	Ant2	2462	11.05	97.76	0.10	11.15	≤30.00	9.43	36	PASS
	total	2462	---	---	---	14.12	≤30.00	14.32	36	PASS
	Ant1	2422	10.93	95.59	0.20	11.13	≤30.00	12.67	36	PASS
11N40MI MO	Ant2	2422	11.18	94.20	0.26	11.44	≤30.00	9.72	36	PASS
	total	2422	---	---	---	14.30	≤30.00	14.45	36	PASS
	Ant1	2437	10.85	94.20	0.26	11.11	≤30.00	12.65	36	PASS
	Ant2	2437	11.23	95.59	0.20	11.43	≤30.00	9.71	36	PASS
	total	2437	---	---	---	14.28	≤30.00	14.43	36	PASS
	Ant1	2452	11.08	95.59	0.20	11.28	≤30.00	12.82	36	PASS
	Ant2	2452	11.29	94.12	0.26	11.55	≤30.00	9.83	36	PASS
	total	2452	---	---	---	14.43	≤30.00	14.59	36	PASS

DC Factor = $10 \cdot \log(1/\text{Duty Cycle})$

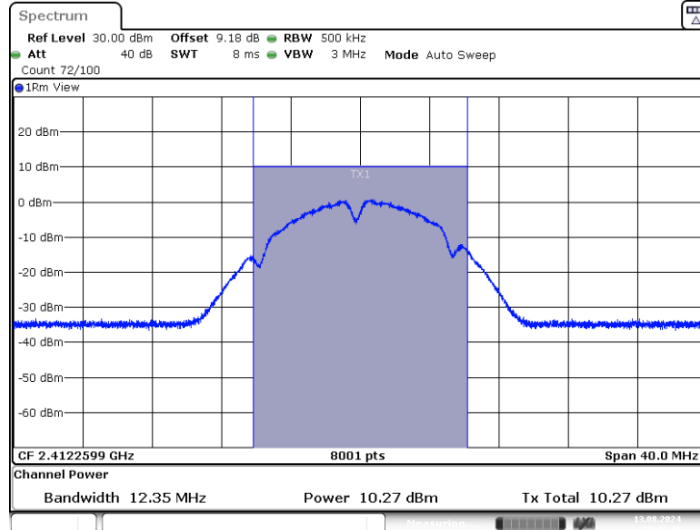
The measure-and-sum technique shall be used for measuring in-band transmit power of a device. Total power is the sum of the conducted power levels measured at the various output ports.

(First measure the power (mW) of each antenna separately, and the total power is equal to Ant1mW + Ant2mW+....)

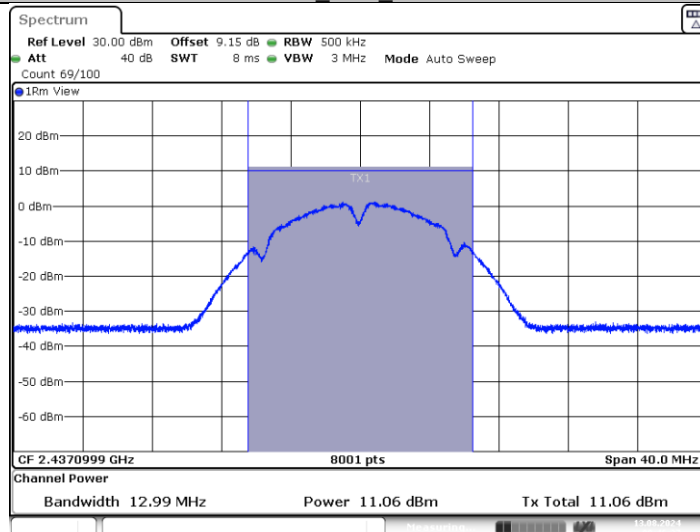
11B_Ant1_2412



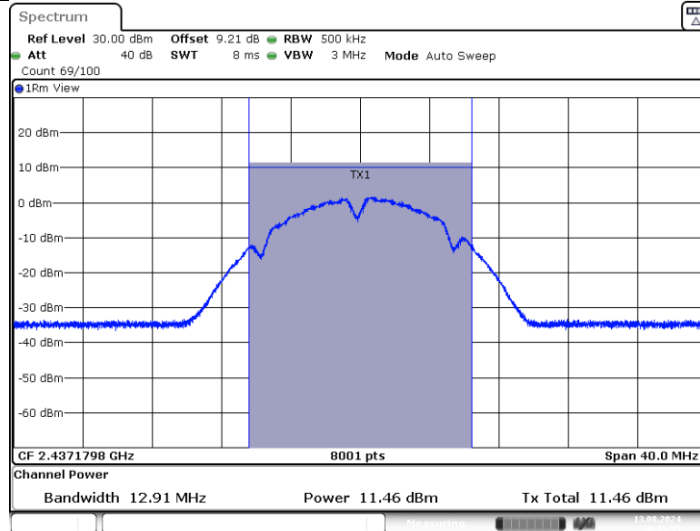
11B_Ant2_2412



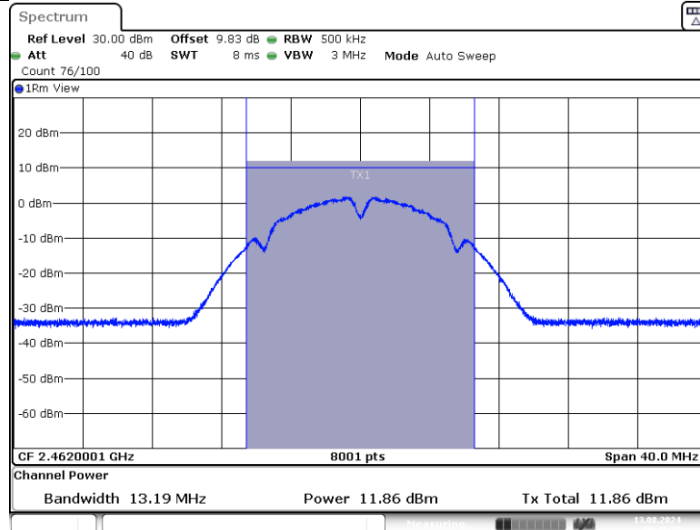
11B_Ant1_2437



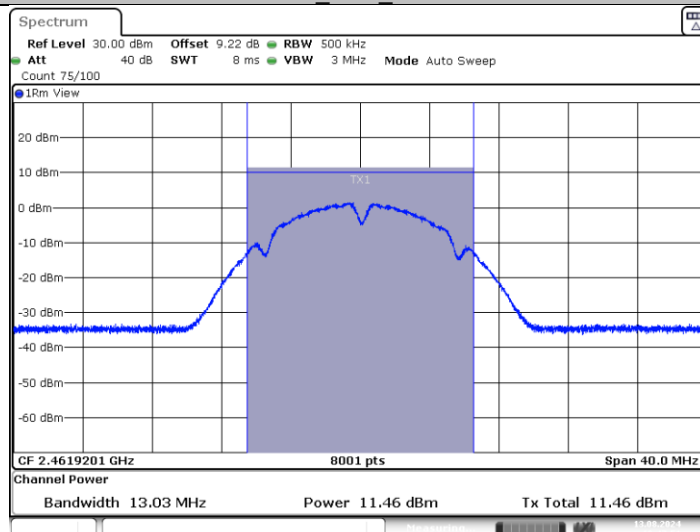
11B_Ant2_2437



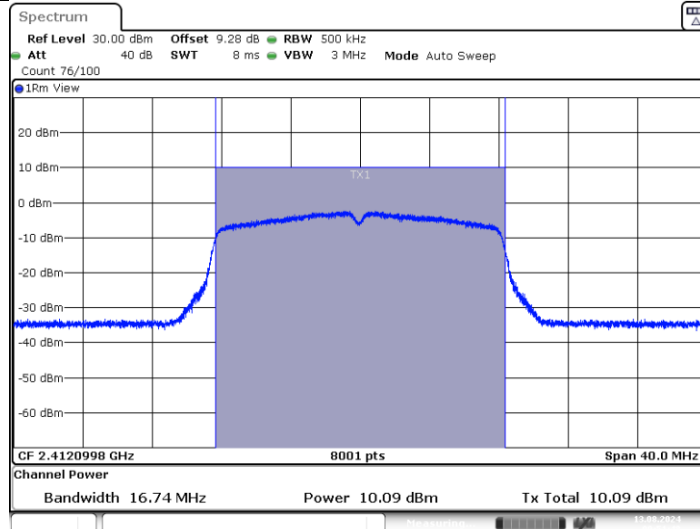
11B_Ant1_2462



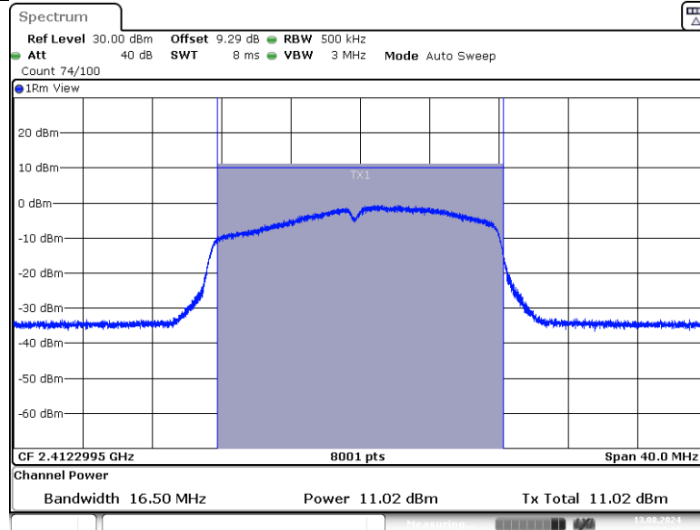
11B_Ant2_2462



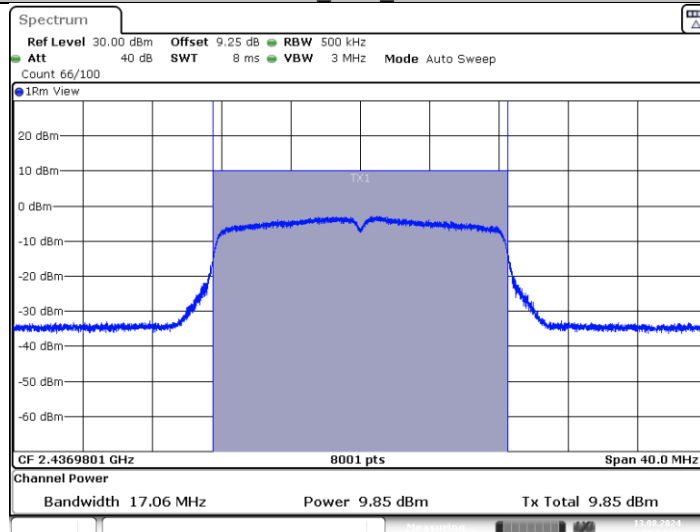
11G_Ant1_2412



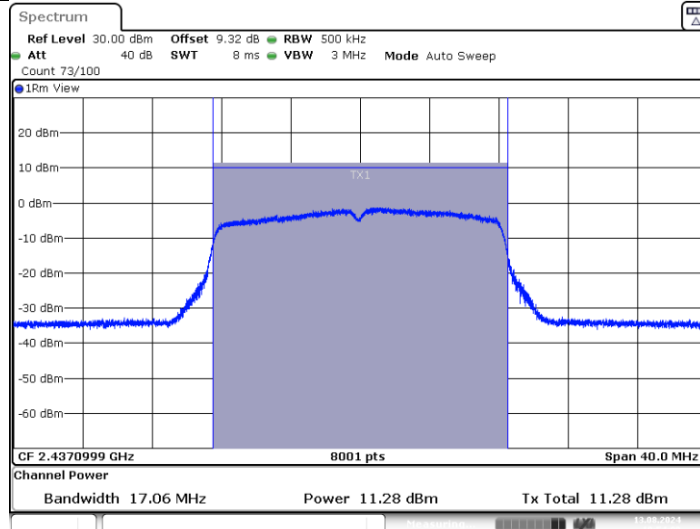
11G_Ant2_2412



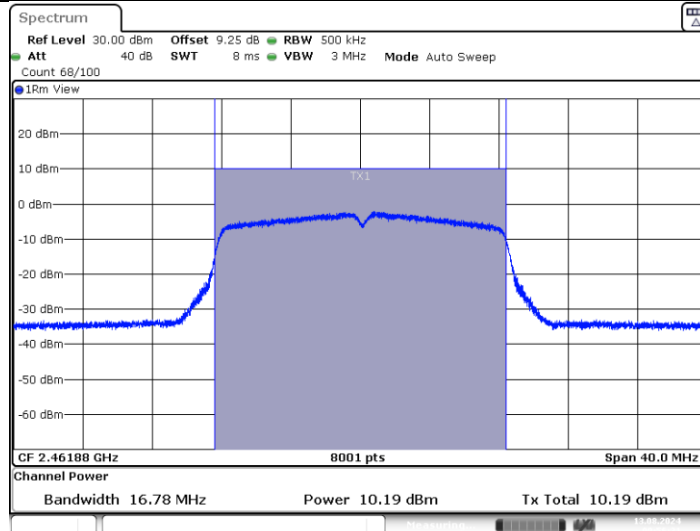
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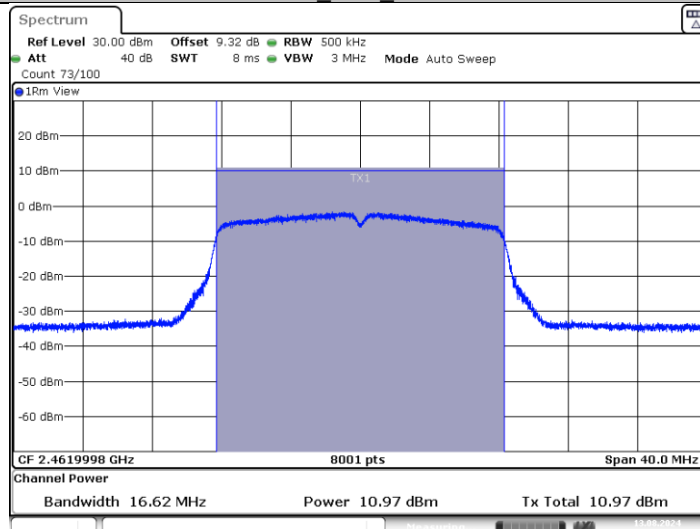
11G_Ant2_2437



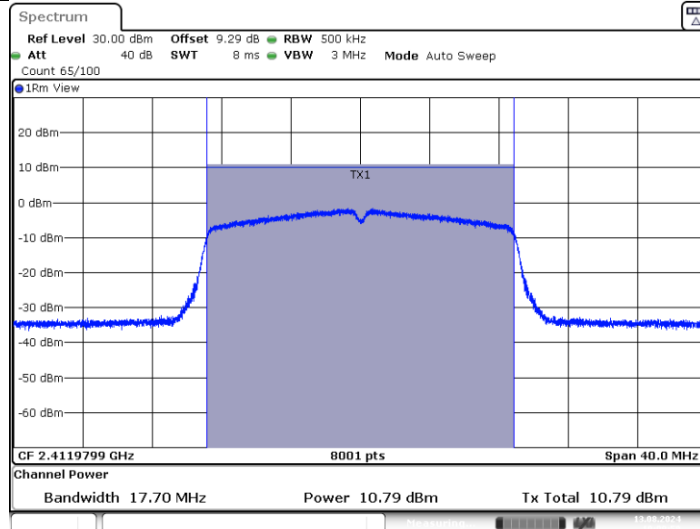
11G_Ant1_2462



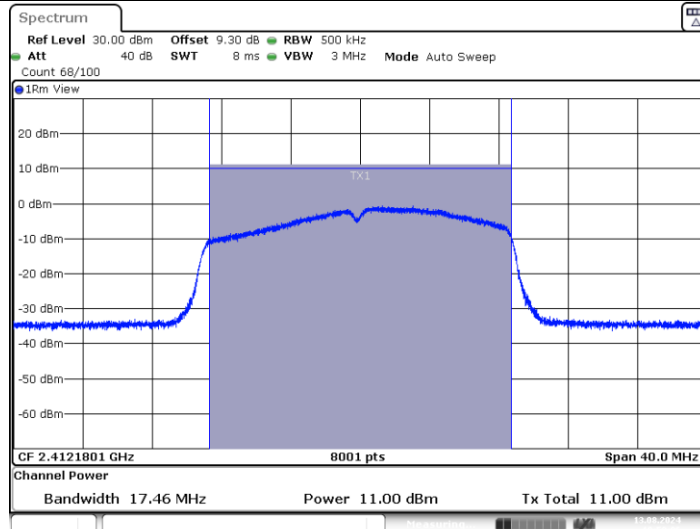
11G_Ant2_2462



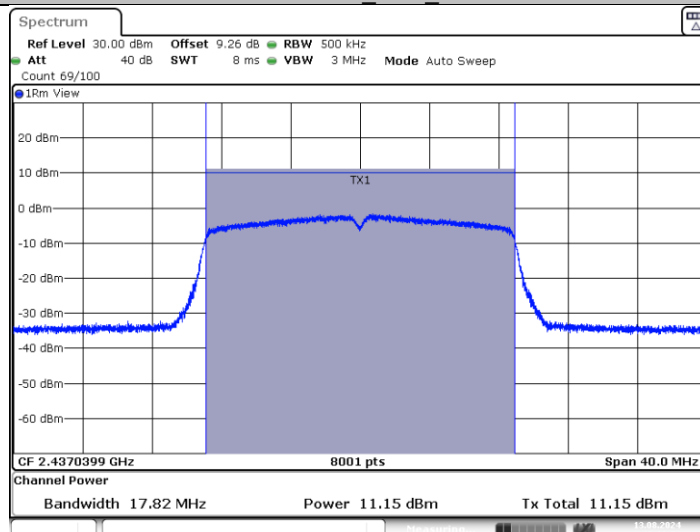
11N20MIMO Ant1_2412



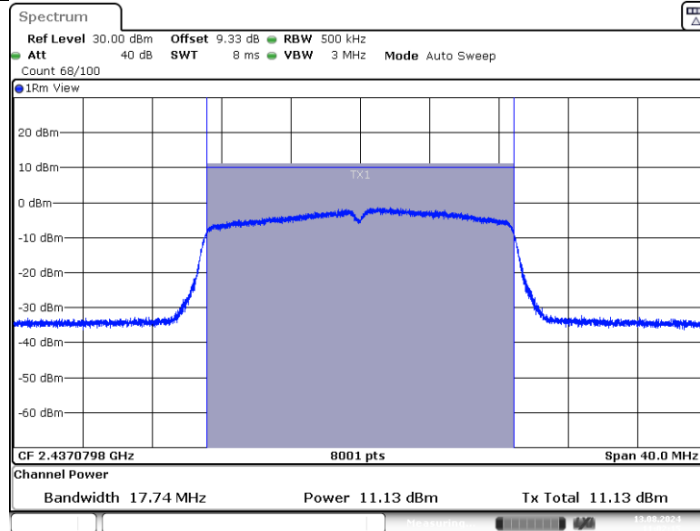
11N20MIMO Ant2_2412



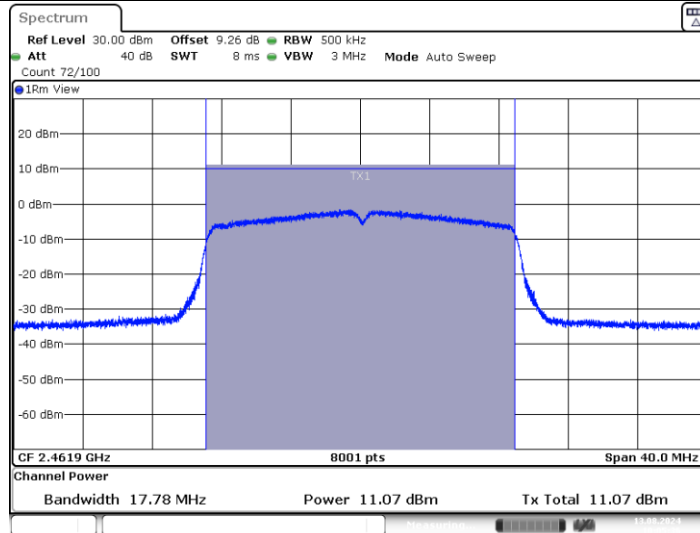
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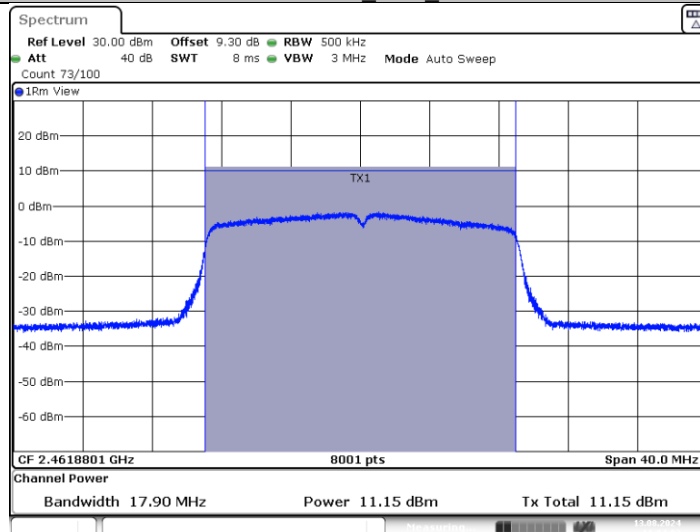
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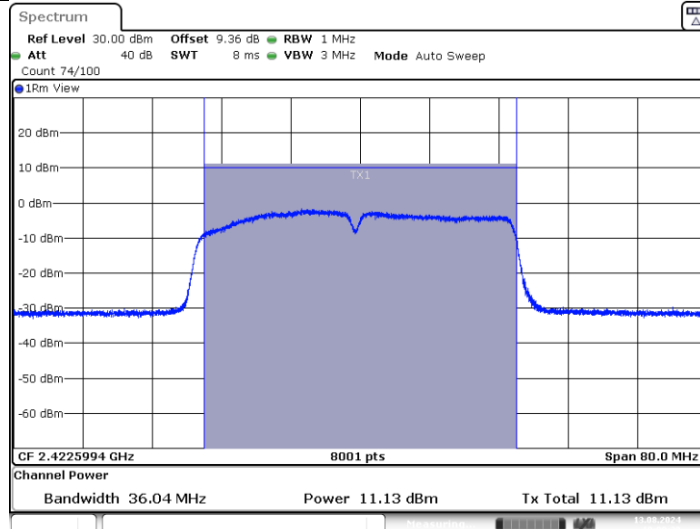
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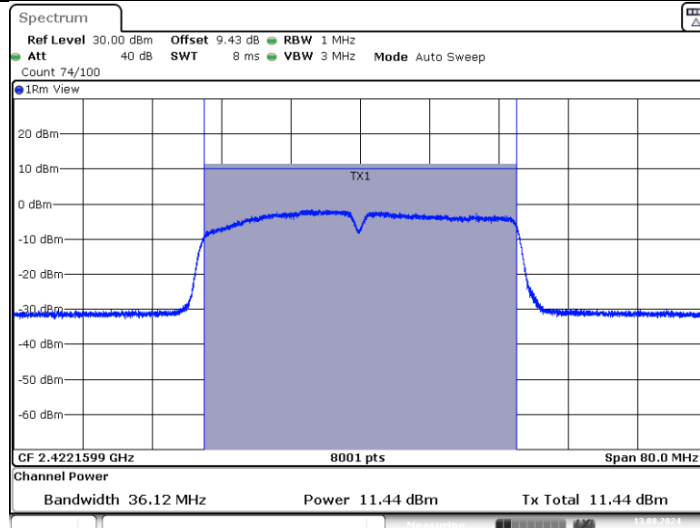
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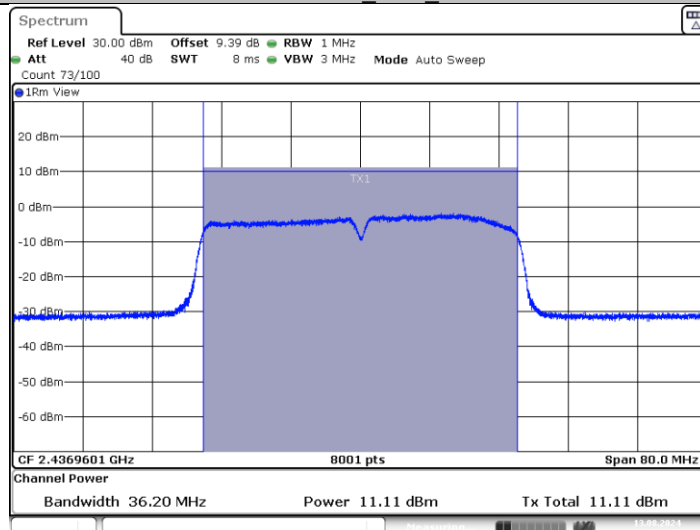
11N40MIMO_Ant1_2422



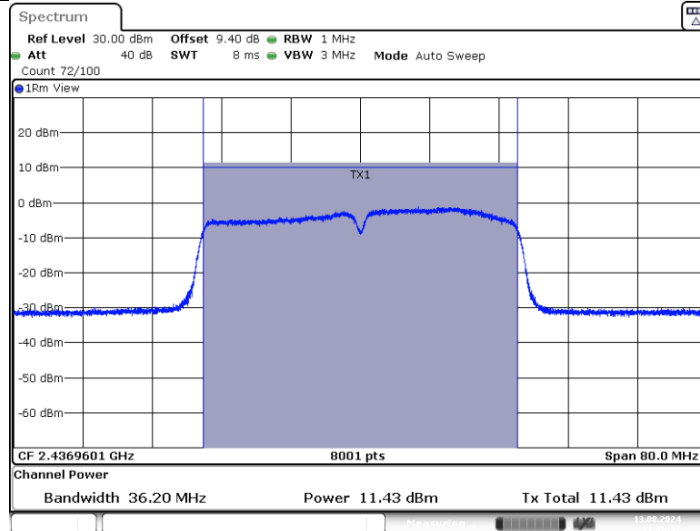
11N40MIMO_Ant2_2422



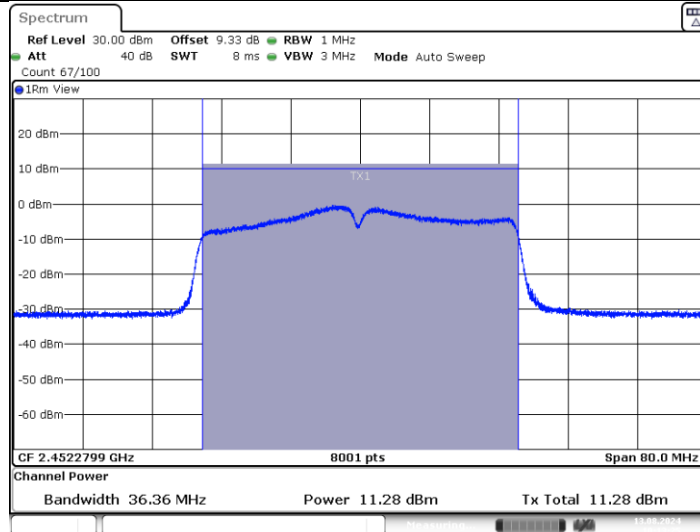
11N40MIMO_Ant1_2437



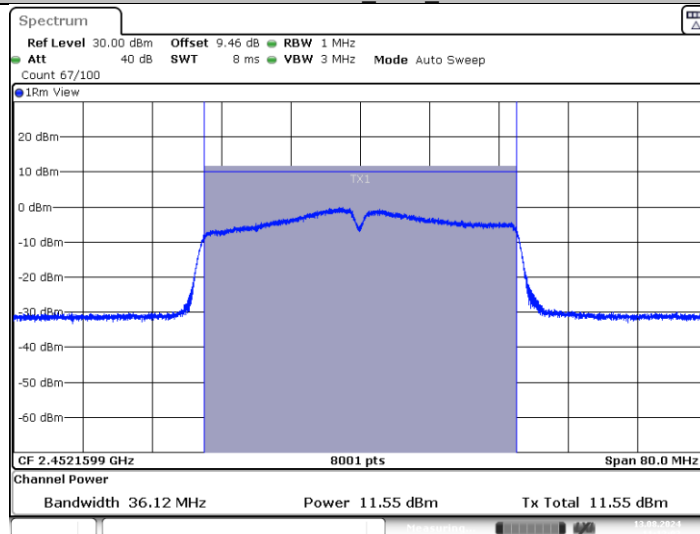
11N40MIMO Ant2 2437



11N40MIMO Ant1 2452



11N40MIMO Ant2 2452

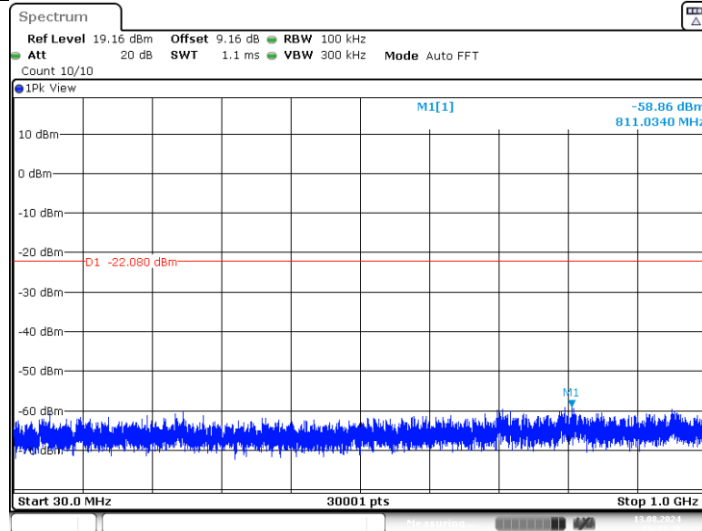


APPENDIX G - CONDUCTED SPURIOUS EMISSION

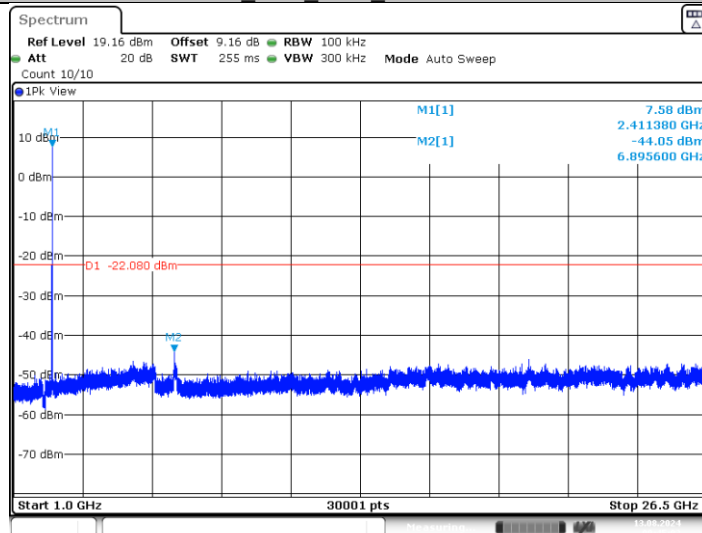
Spurious Emission

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	7.92	-58.86	≤-22.08	PASS
			1000~26500	7.92	-44.05	≤-22.08	PASS
	Ant2	2412	30~1000	2.91	-58.47	≤-27.09	PASS
			1000~26500	2.91	-45.61	≤-27.09	PASS
	Ant1	2437	30~1000	3.55	-58.96	≤-26.45	PASS
			1000~26500	3.55	-45.84	≤-26.45	PASS
	Ant2	2437	30~1000	3.48	-59.23	≤-26.52	PASS
			1000~26500	3.48	-46.19	≤-26.52	PASS
	Ant1	2462	30~1000	3.54	-59.44	≤-26.46	PASS
			1000~26500	3.54	-46.39	≤-26.46	PASS
	Ant2	2462	30~1000	3.73	-59.06	≤-26.27	PASS
			1000~26500	3.73	-46.14	≤-26.27	PASS
11G	Ant1	2412	30~1000	-0.04	-58.8	≤-30.04	PASS
			1000~26500	-0.04	-40.4	≤-30.04	PASS
	Ant2	2412	30~1000	1.47	-58.5	≤-28.53	PASS
			1000~26500	1.47	-46.07	≤-28.53	PASS
	Ant1	2437	30~1000	-0.17	-59.08	≤-30.17	PASS
			1000~26500	-0.17	-37.58	≤-30.17	PASS
	Ant2	2437	30~1000	1.19	-59.97	≤-28.81	PASS
			1000~26500	1.19	-38.38	≤-28.81	PASS
	Ant1	2462	30~1000	-2.54	-58.31	≤-32.54	PASS
			1000~26500	-2.54	-35.92	≤-32.54	PASS
	Ant2	2462	30~1000	0.60	-58.68	≤-29.4	PASS
			1000~26500	0.60	-46.08	≤-29.4	PASS
11N20MIMO	Ant1	2412	30~1000	0.84	-59.17	≤-29.16	PASS
			1000~26500	0.84	-38.37	≤-29.16	PASS
	Ant2	2412	30~1000	2.13	-59.24	≤-27.87	PASS
			1000~26500	2.13	-45.59	≤-27.87	PASS
	Ant1	2437	30~1000	0.72	-59.06	≤-29.28	PASS
			1000~26500	0.72	-38.47	≤-29.28	PASS
	Ant2	2437	30~1000	1.20	-59.69	≤-28.8	PASS
			1000~26500	1.20	-46.18	≤-28.8	PASS
	Ant1	2462	30~1000	1.15	-58.77	≤-28.85	PASS
			1000~26500	1.15	-42.83	≤-28.85	PASS
	Ant2	2462	30~1000	0.99	-59.71	≤-29.01	PASS
			1000~26500	0.99	-45.6	≤-29.01	PASS
11N40MIMO	Ant1	2422	30~1000	-1.12	-59.55	≤-31.12	PASS
			1000~26500	-1.12	-36.28	≤-31.12	PASS
	Ant2	2422	30~1000	-1.46	-58.56	≤-31.46	PASS
			1000~26500	-1.46	-46.51	≤-31.46	PASS
	Ant1	2437	30~1000	-2.14	-58.22	≤-32.14	PASS
			1000~26500	-2.14	-38.09	≤-32.14	PASS
	Ant2	2437	30~1000	-1.34	-59.28	≤-31.34	PASS
			1000~26500	-1.34	-46.23	≤-31.34	PASS
	Ant1	2452	30~1000	-1.21	-58.5	≤-31.21	PASS
			1000~26500	-1.21	-41.58	≤-31.21	PASS
	Ant2	2452	30~1000	-0.04	-58.82	≤-30.04	PASS
			1000~26500	-0.04	-45.87	≤-30.04	PASS

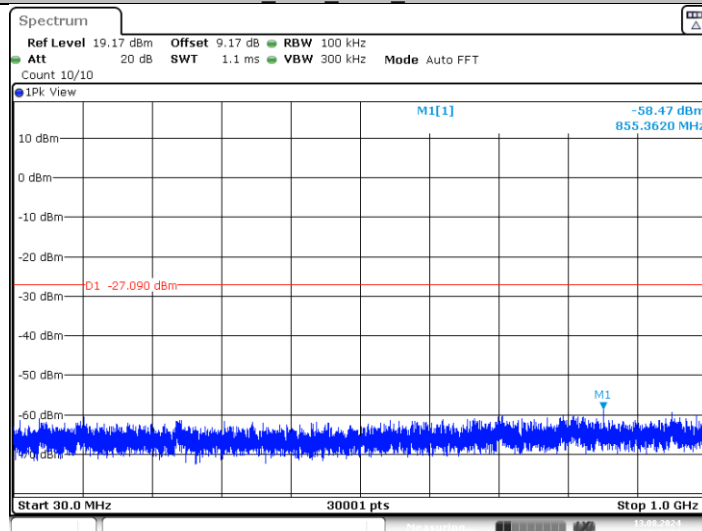
11B_Ant1_2412_30~1000

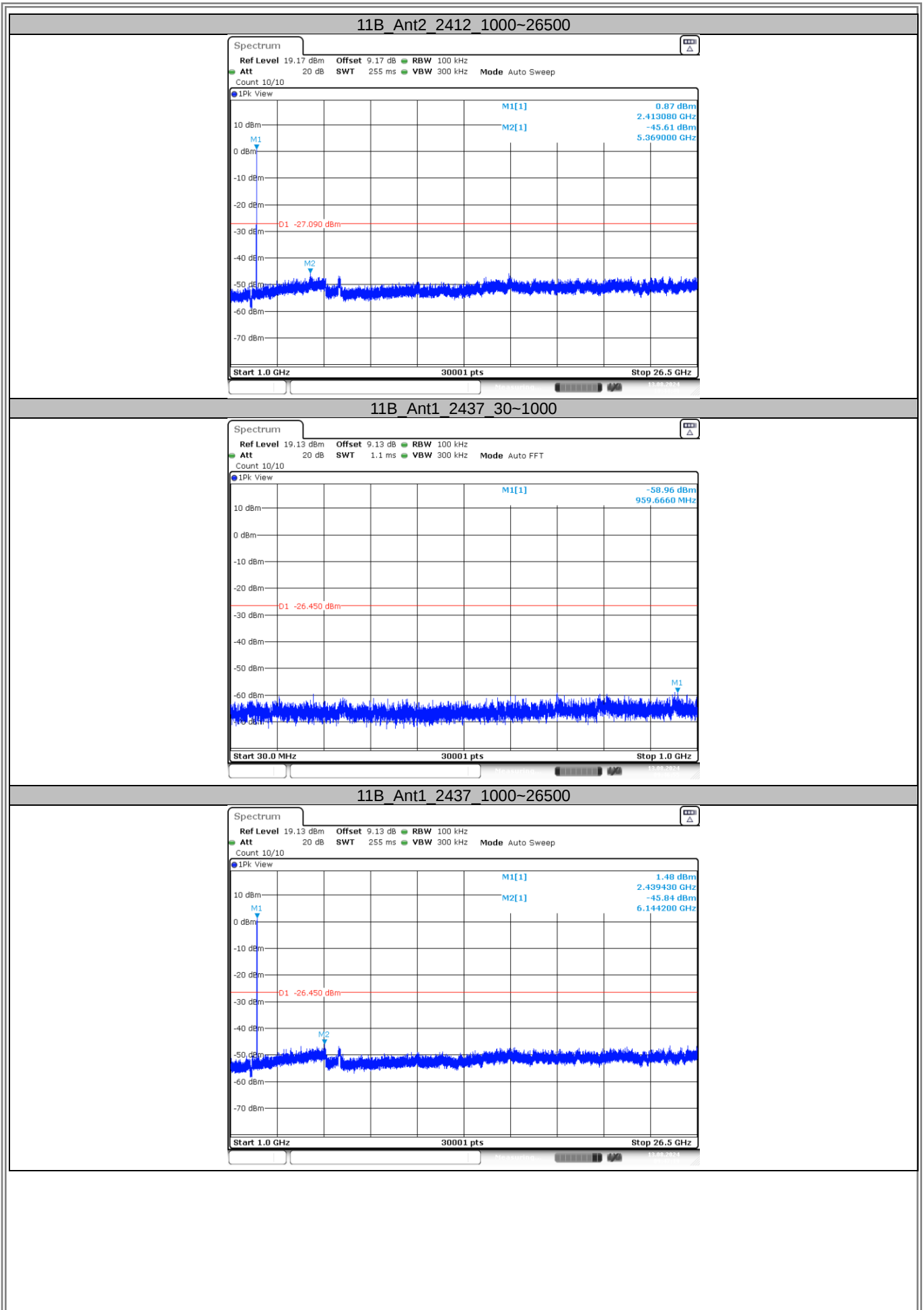


11B_Ant1_2412_1000~26500

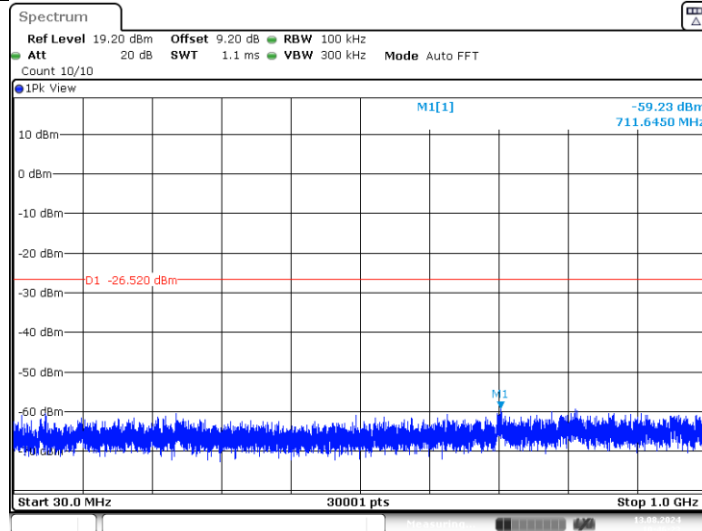


11B_Ant2_2412_30~1000

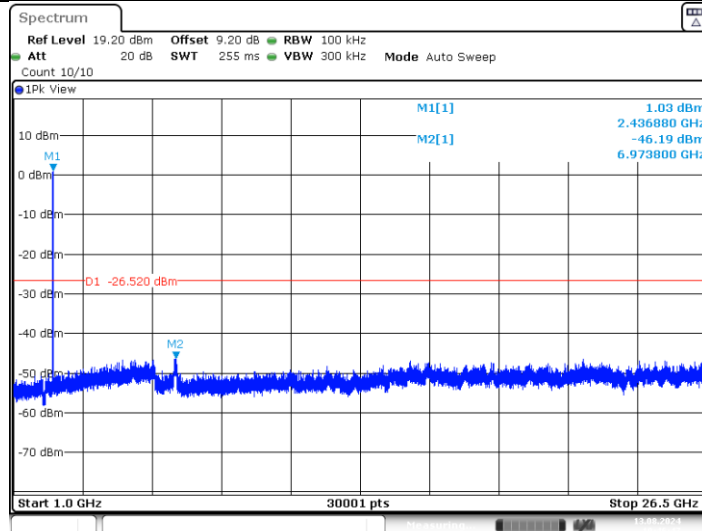




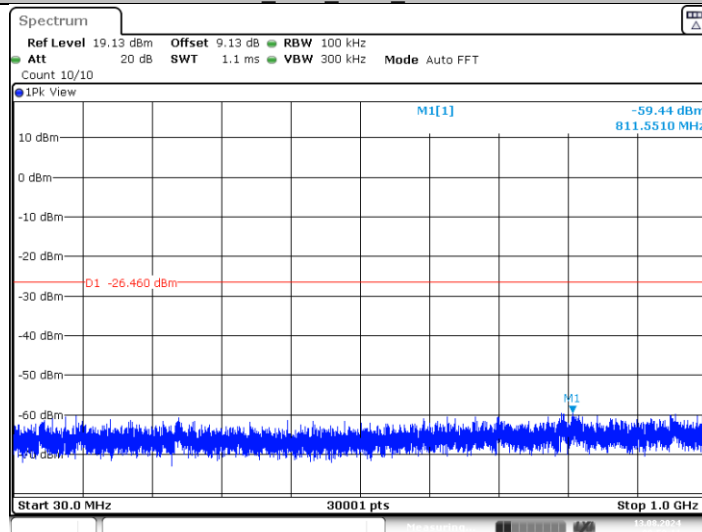
11B_Ant2_2437_30~1000



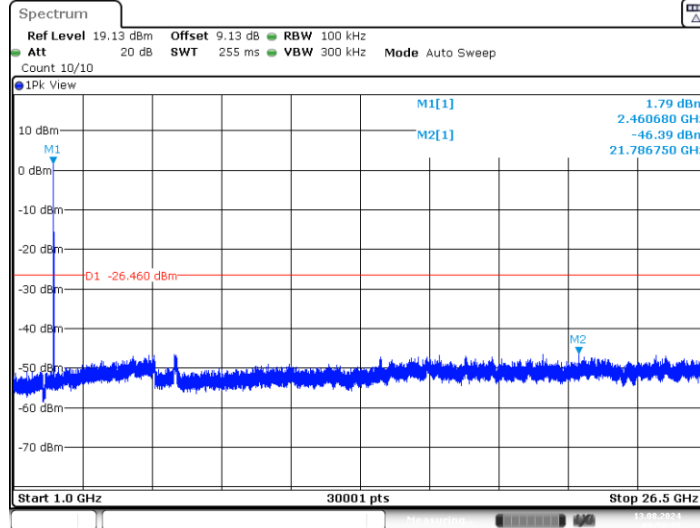
11B_Ant2_2437_1000~26500



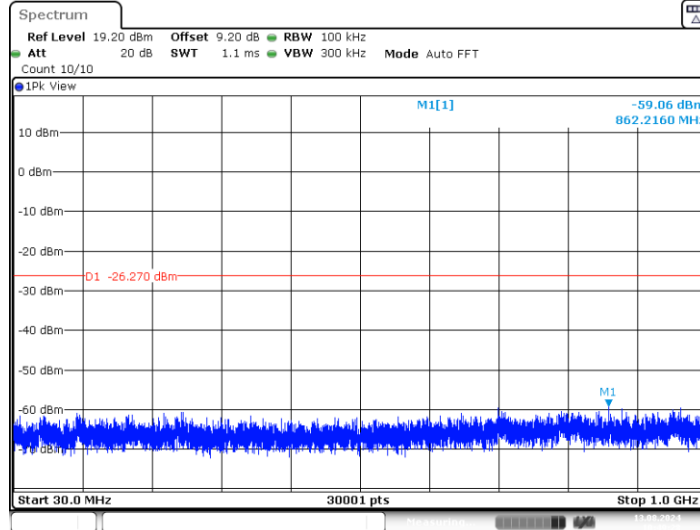
11B_Ant1_2462_30~1000



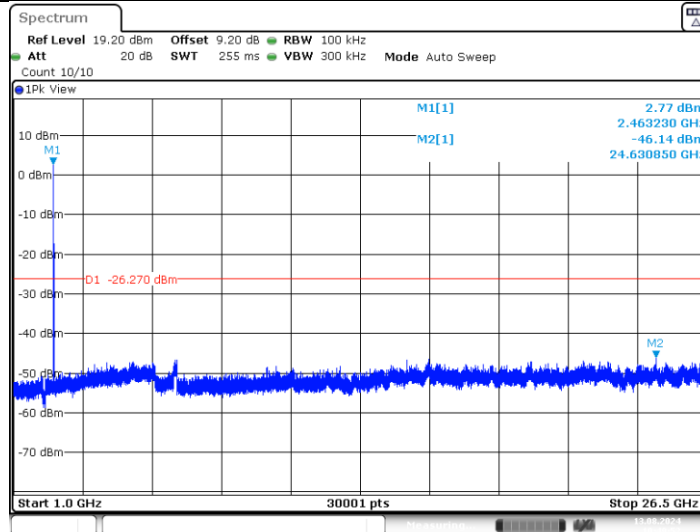
11B_Ant1_2462_1000~26500



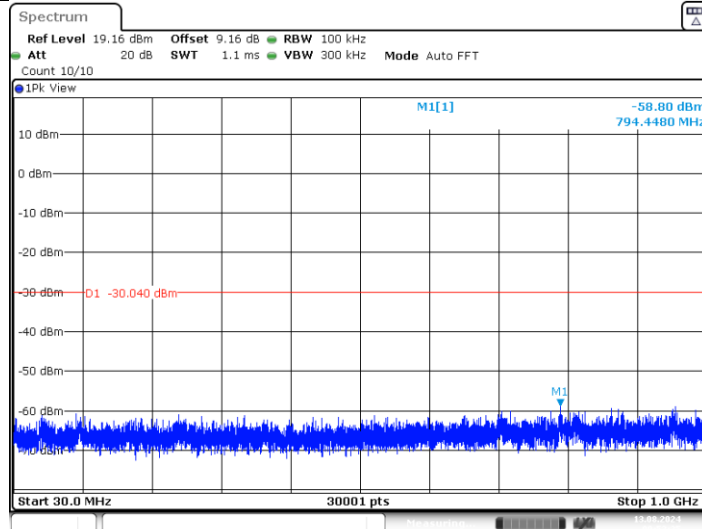
11B_Ant2_2462_30~1000



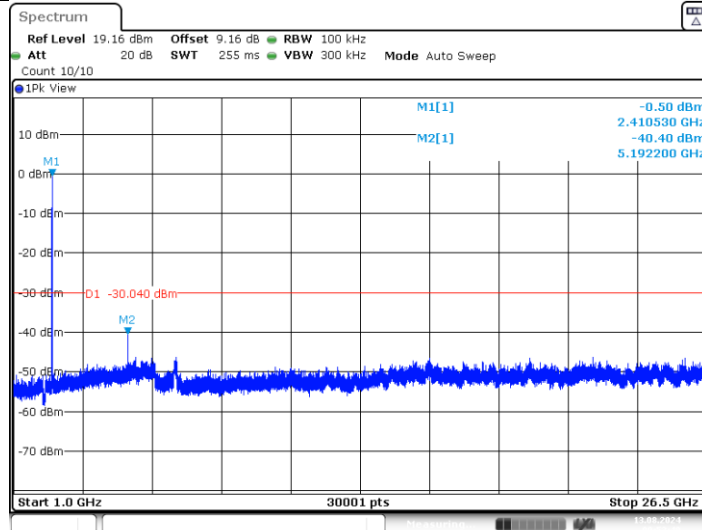
11B_Ant2_2462_1000~26500



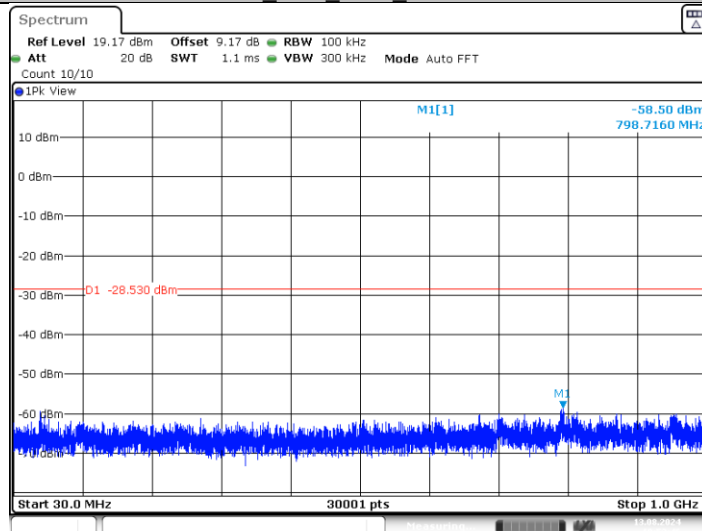
11G_Ant1_2412_30~1000



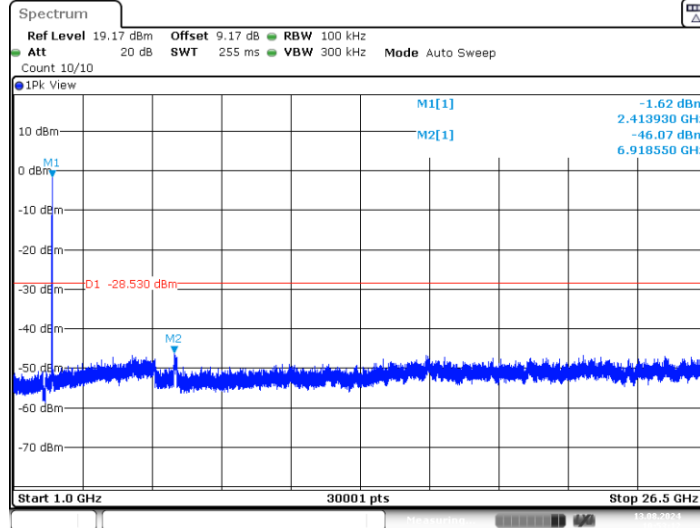
11G_Ant1_2412_1000~26500



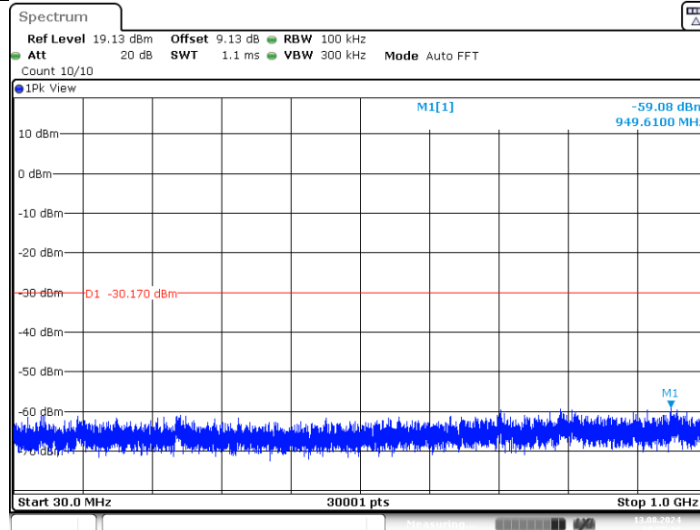
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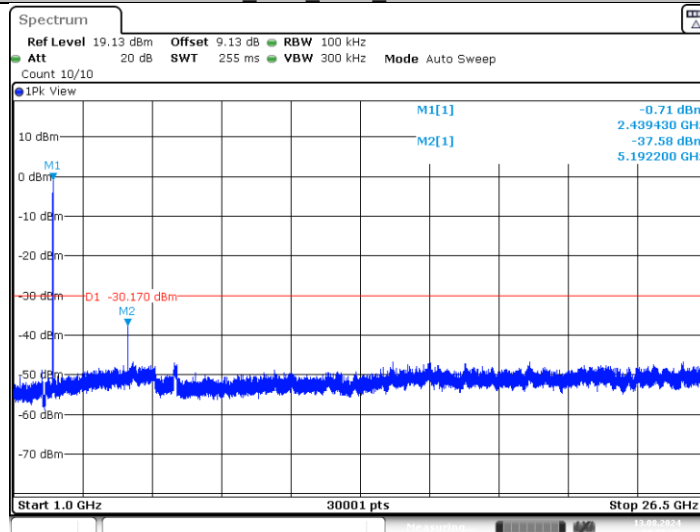
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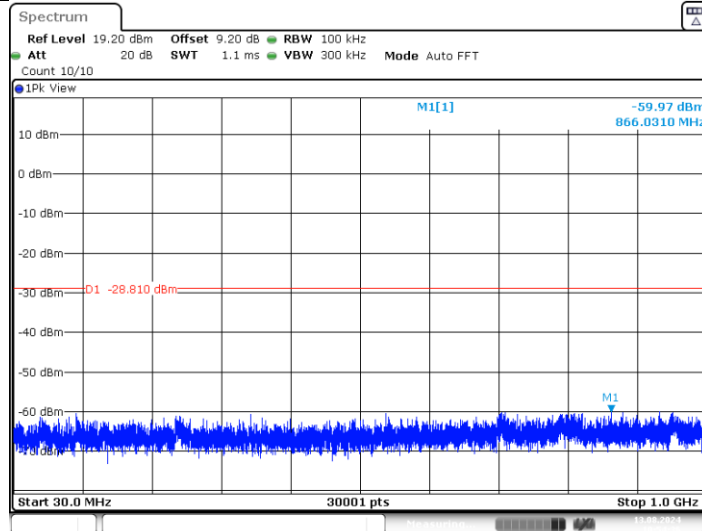
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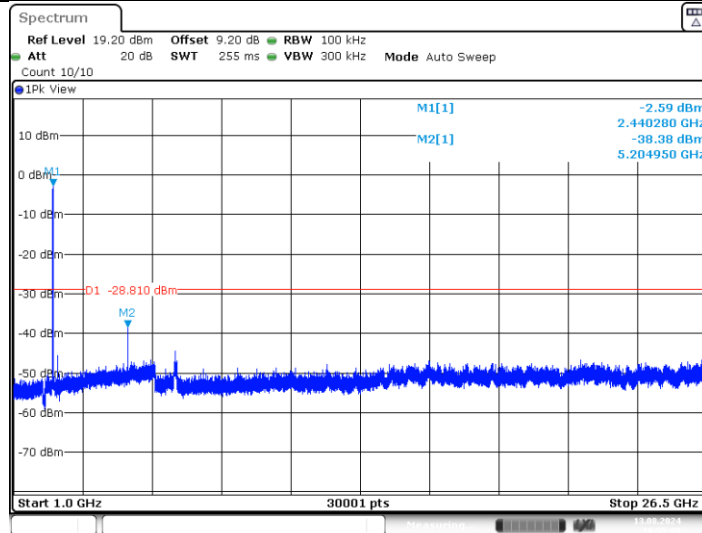
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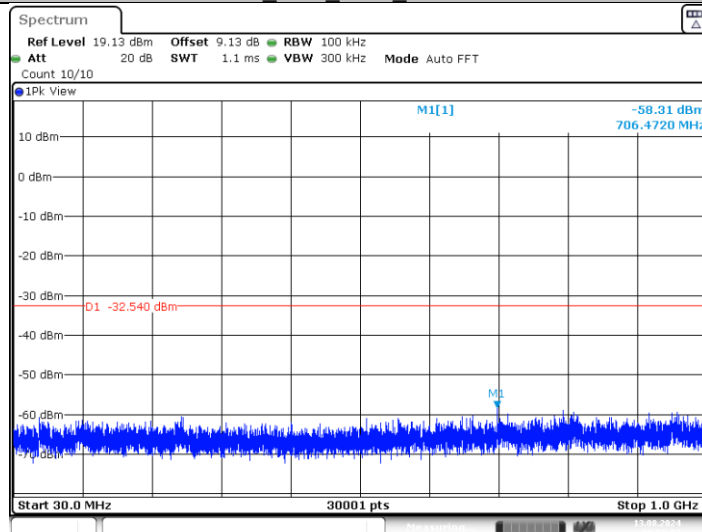
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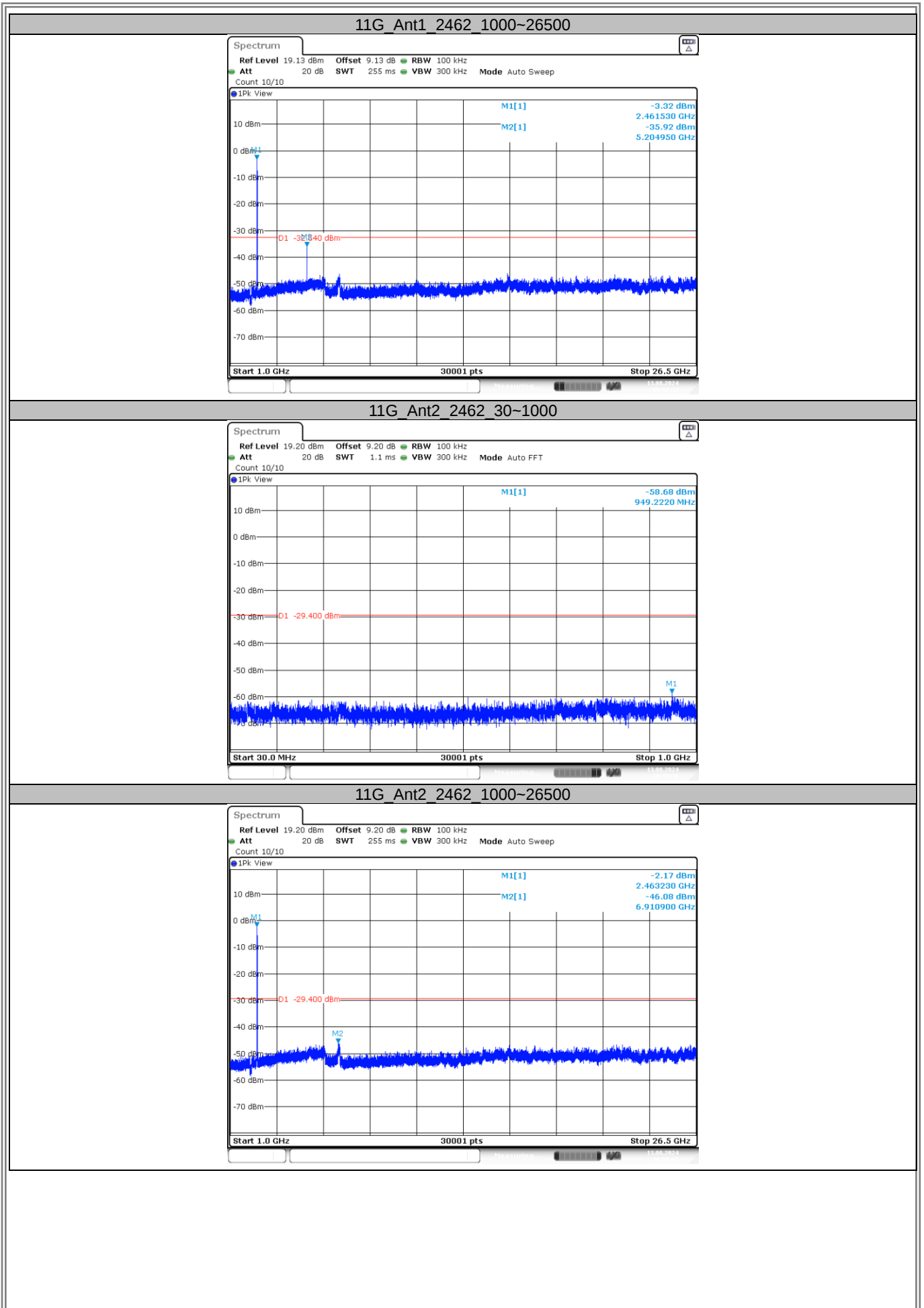


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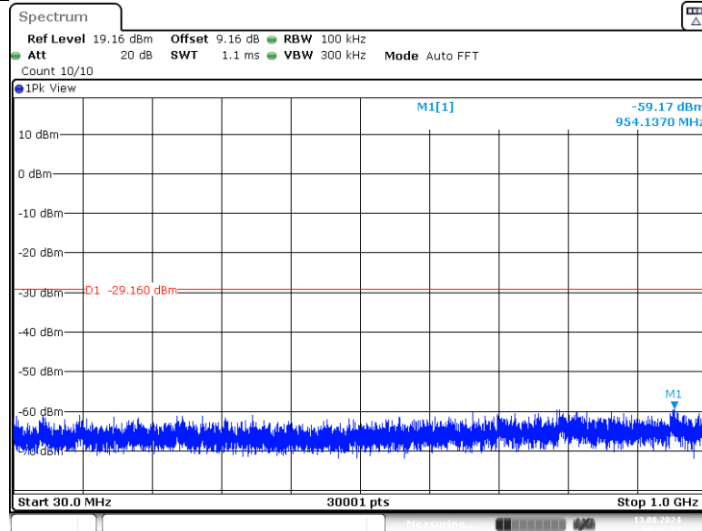


11G_Ant1_2462_30~1000

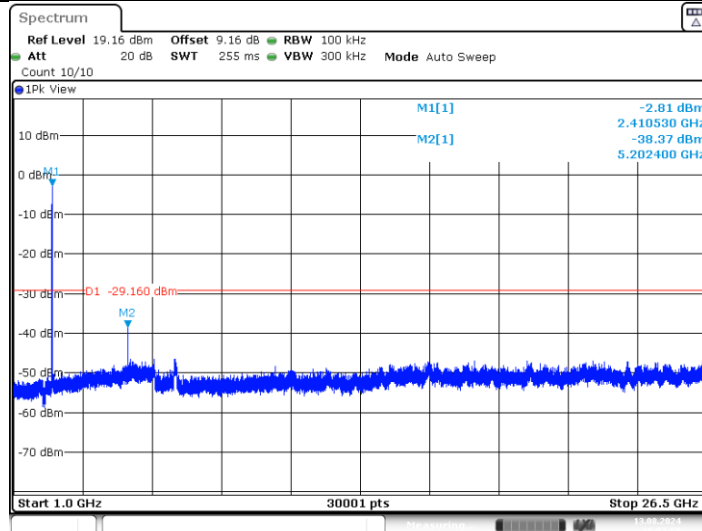




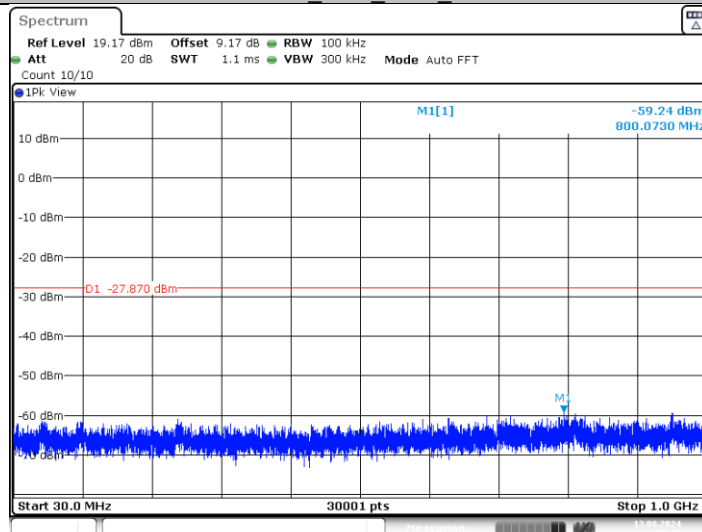
11N20MIMO_Ant1_2412_30~1000



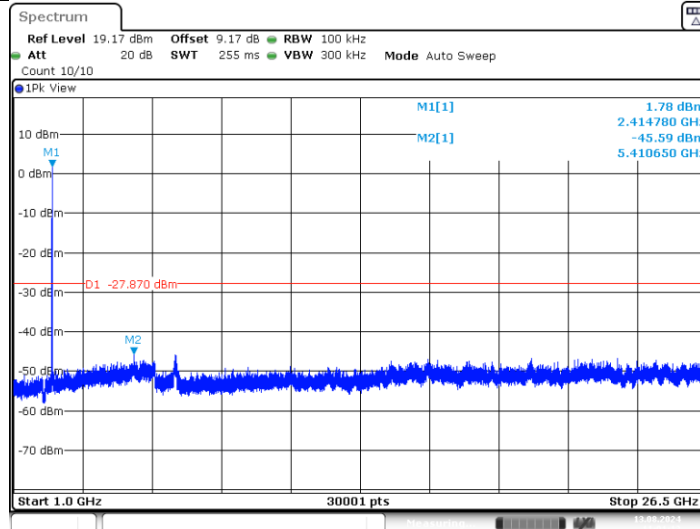
11N20MIMO_Ant1_2412_1000~26500



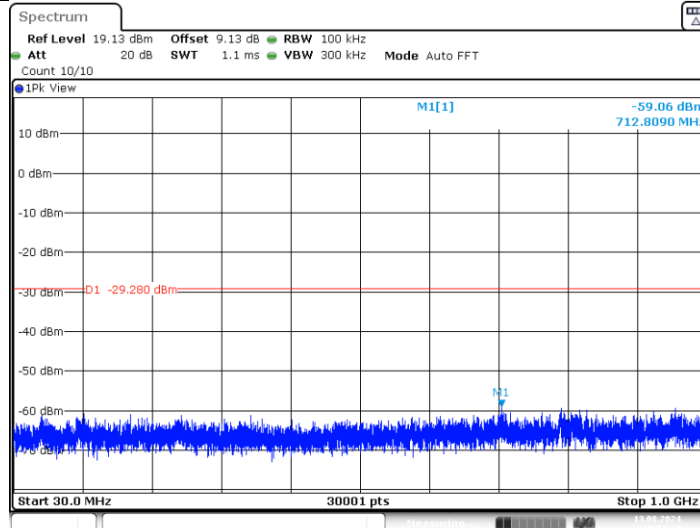
11N20MIMO_Ant2_2412_30~1000



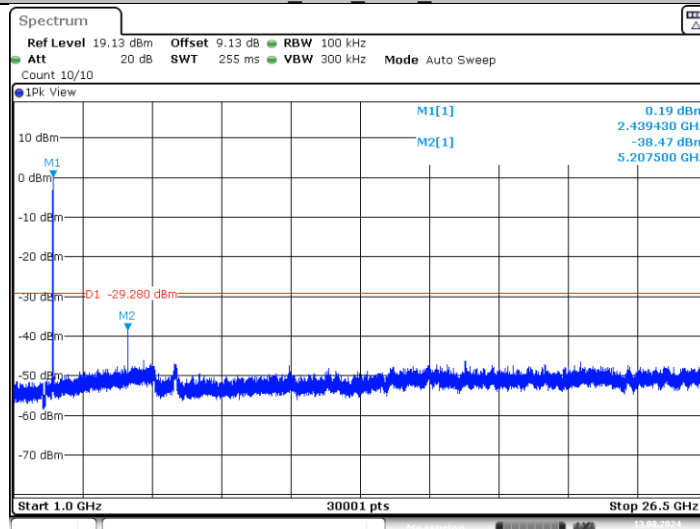
11N20MIMO_Ant2_2412_1000~26500



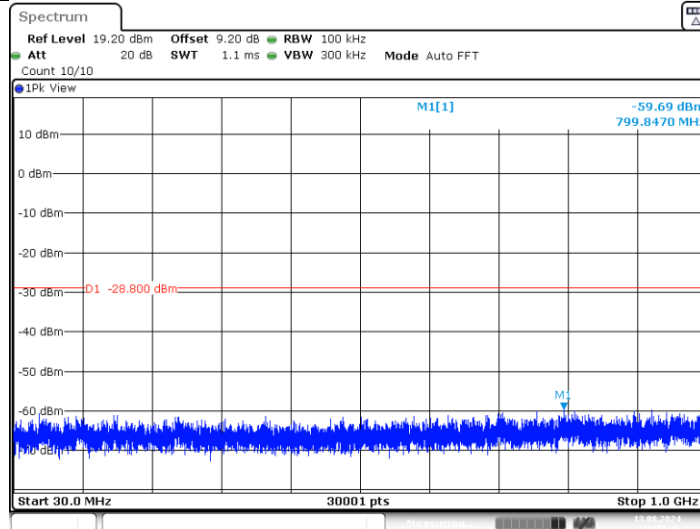
11N20MIMO_Ant1_2437_30~1000



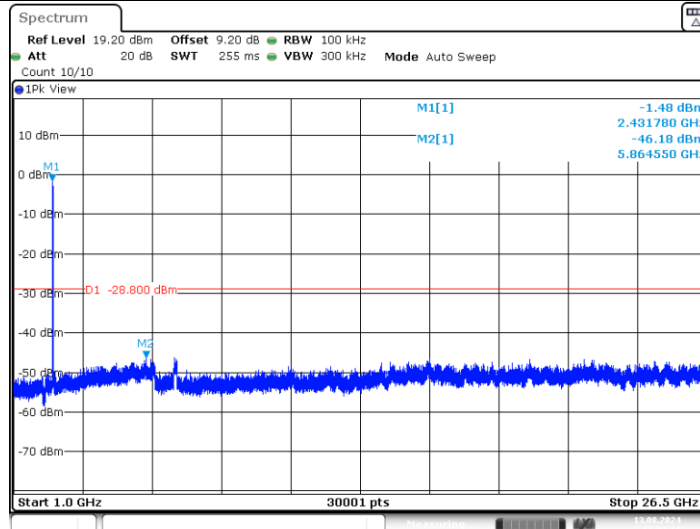
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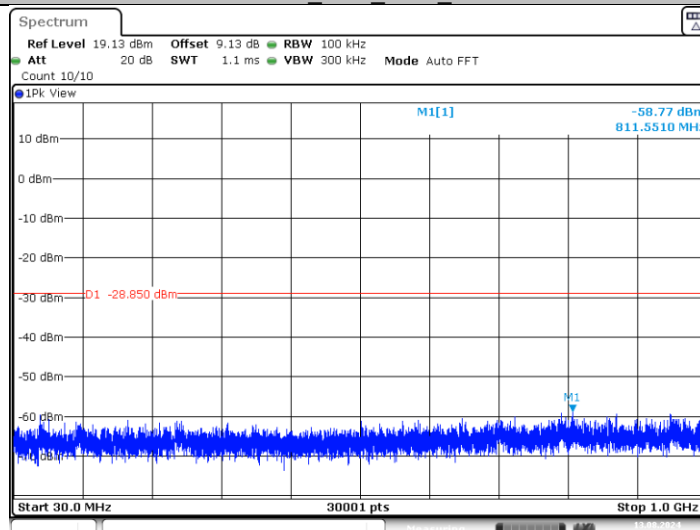
11N20MIMO_Ant2_2437_30~1000



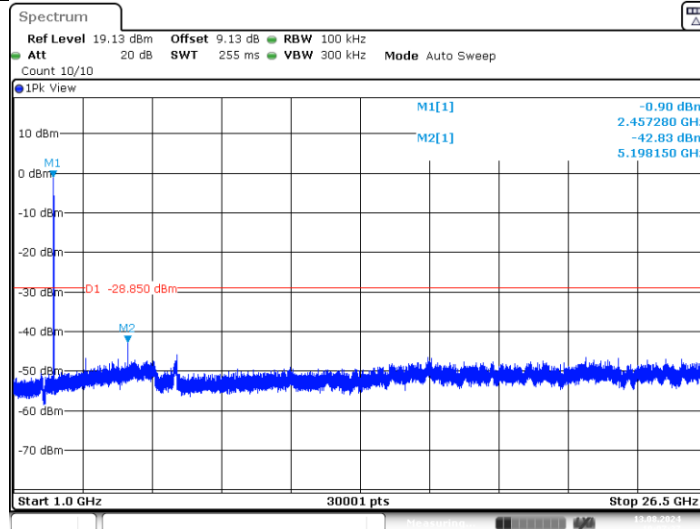
11N20MIMO_Ant2_2437_1000~26500



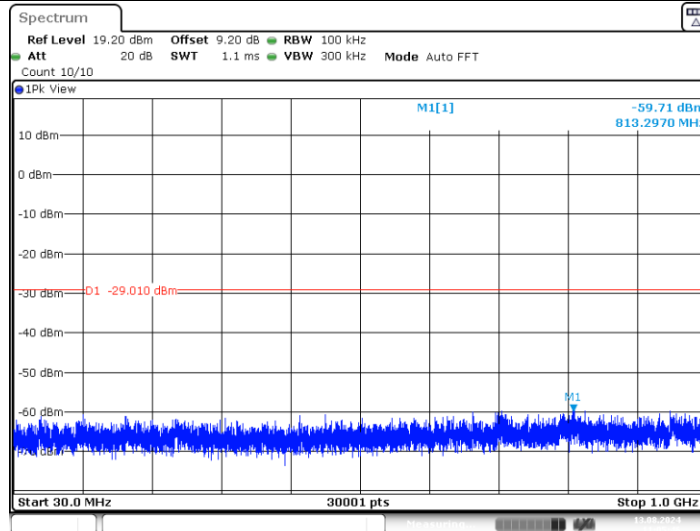
11N20MIMO_Ant1_2462_30~1000



11N20MIMO_Ant1_2462_1000~26500



11N20MIMO_Ant2_2462_30~1000



11N20MIMO_Ant2_2462_1000~26500

