

RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	Intelligent central control screen
Test Model:	IXP101L1-RK3568
Sample ID:	HC-C-202509-0243-01-01#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 12V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202509-0243-71	

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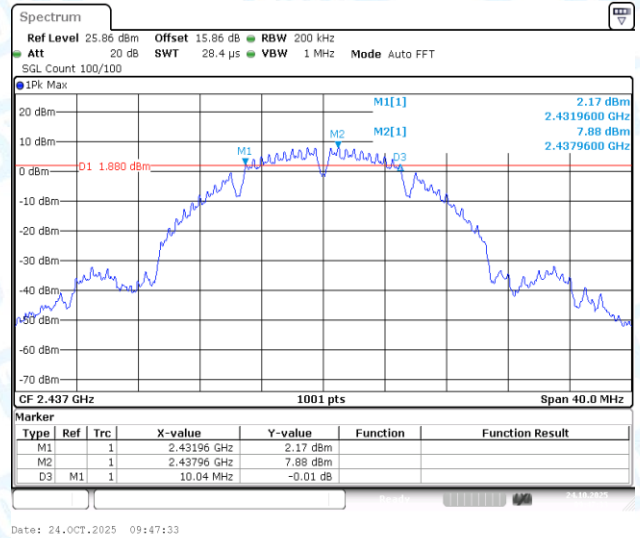
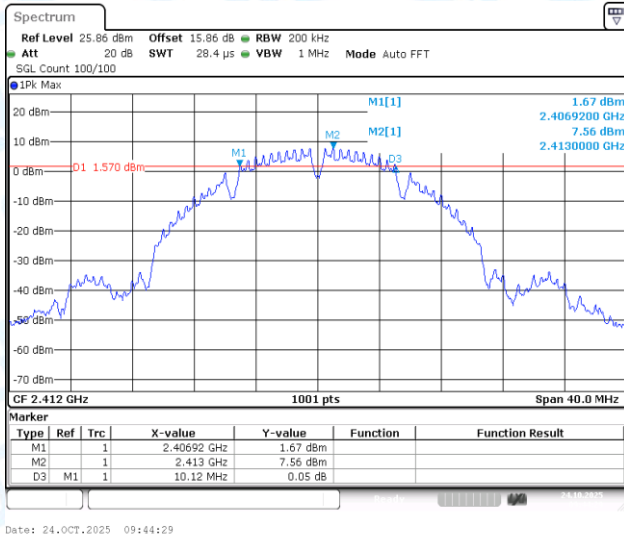
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1: DTS Bandwidth

1.1 Test Result

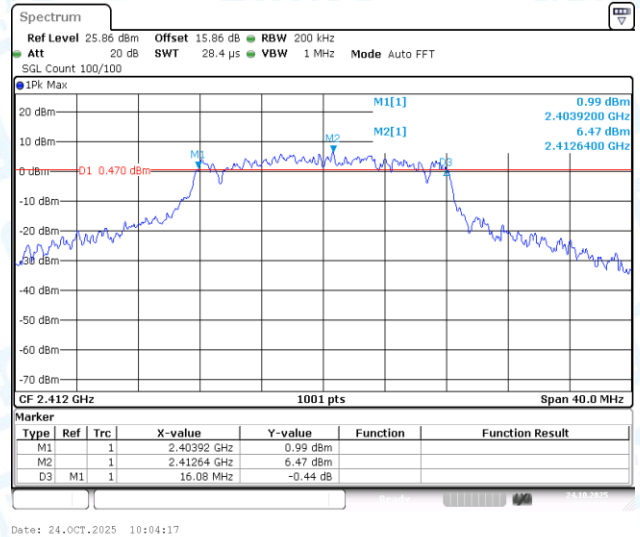
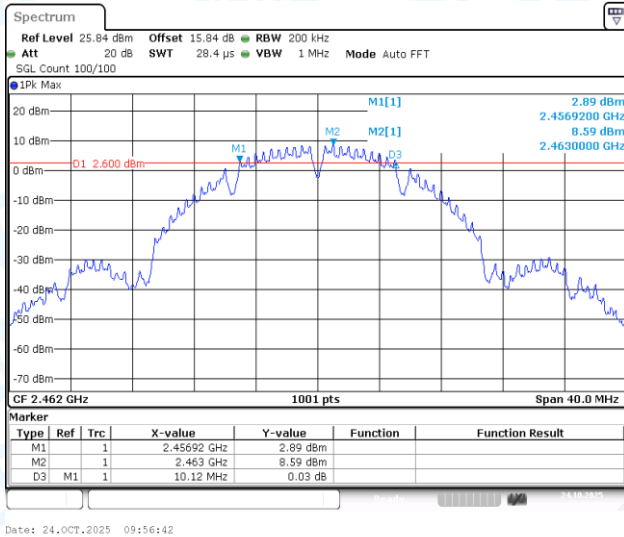
TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.12	2406.92	2417.04	0.5	PASS
11B	Ant1	2437	10.04	2431.96	2442.00	0.5	PASS
11B	Ant1	2462	10.12	2456.92	2467.04	0.5	PASS
11G	Ant1	2412	16.08	2403.92	2420.00	0.5	PASS
11G	Ant1	2437	15.92	2429.00	2444.92	0.5	PASS
11G	Ant1	2462	15.88	2453.84	2469.72	0.5	PASS
11N20SISO	Ant1	2412	16.56	2403.60	2420.16	0.5	PASS
11N20SISO	Ant1	2437	17.64	2428.16	2445.80	0.5	PASS
11N20SISO	Ant1	2462	17.56	2453.20	2470.76	0.5	PASS
11N40SISO	Ant1	2422	35.36	2403.84	2439.20	0.5	PASS
11N40SISO	Ant1	2437	35.84	2418.84	2454.68	0.5	PASS
11N40SISO	Ant1	2452	33.76	2434.08	2467.84	0.5	PASS
11AX20SISO	Ant1	2412	18.76	2402.72	2421.48	0.5	PASS
11AX20SISO	Ant1	2437	18.24	2427.76	2446.00	0.5	PASS
11AX20SISO	Ant1	2462	18.92	2452.52	2471.44	0.5	PASS
11AX40SISO	Ant1	2422	33.92	2406.24	2440.16	0.5	PASS
11AX40SISO	Ant1	2437	34.00	2418.92	2452.92	0.5	PASS
11AX40SISO	Ant1	2452	33.76	2433.12	2466.88	0.5	PASS

1.2 Test Graphs



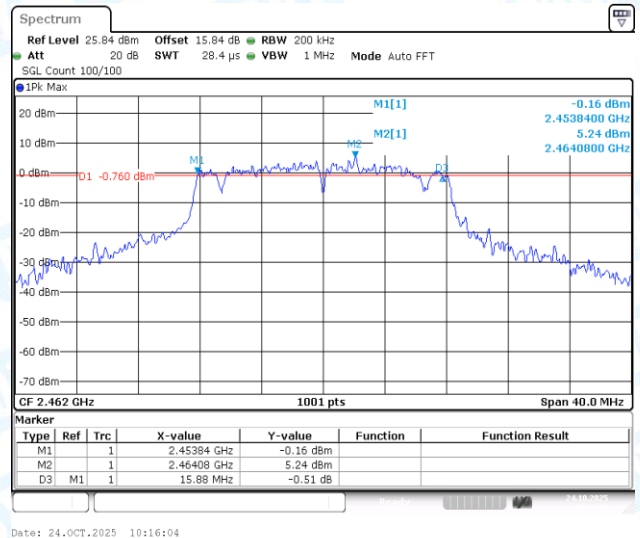
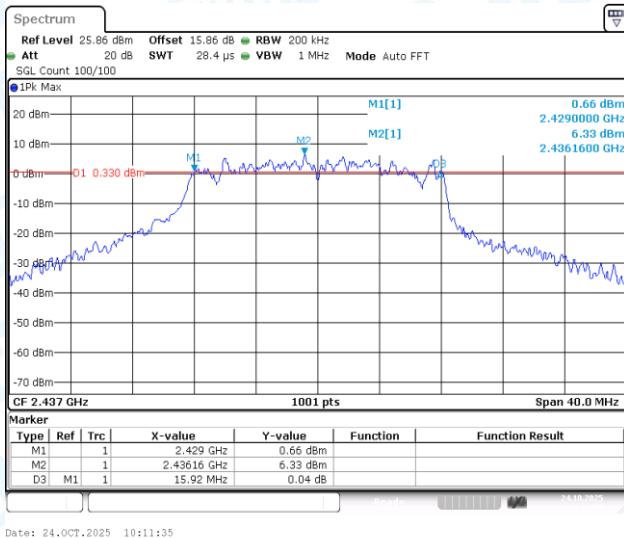
11B-Ant1-2412-PASS

11B-Ant1-2437-PASS



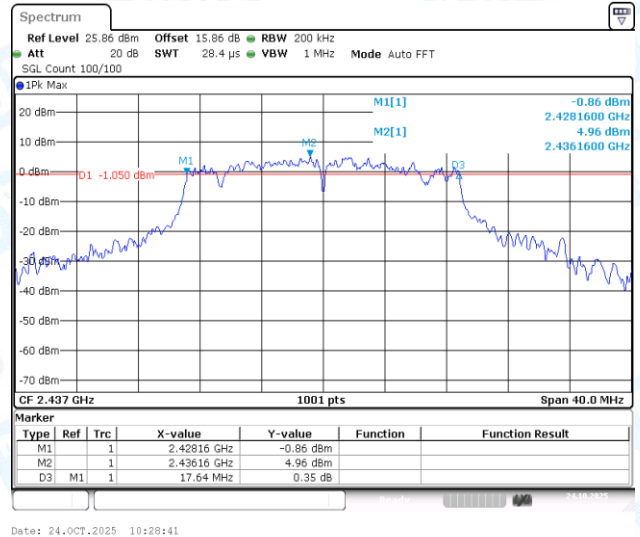
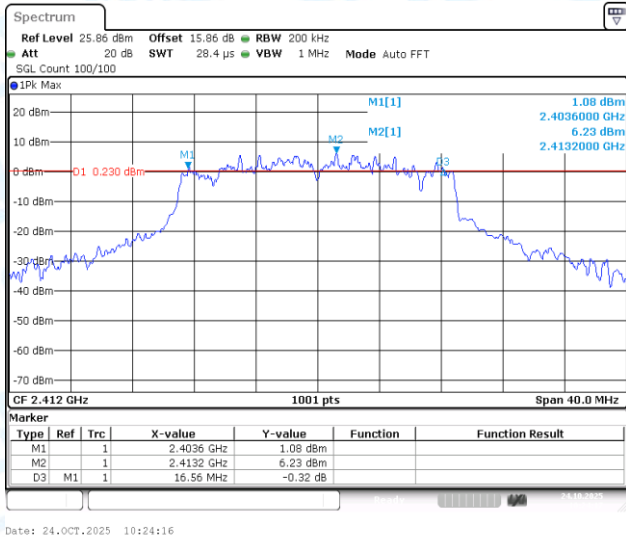
11B-Ant1-2462-PASS

11G-Ant1-2412-PASS



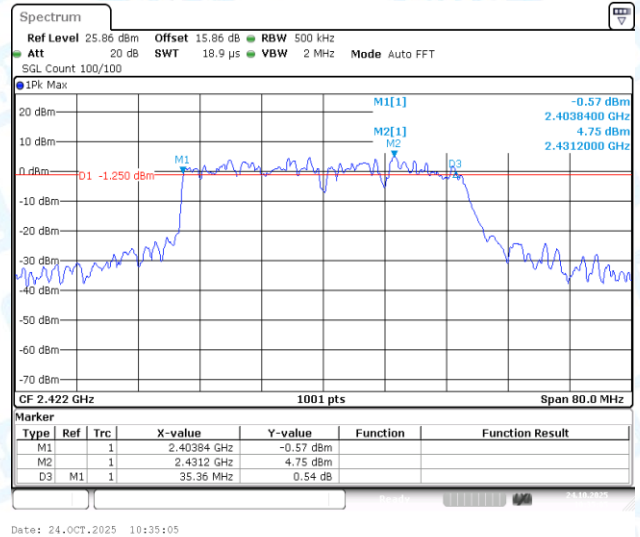
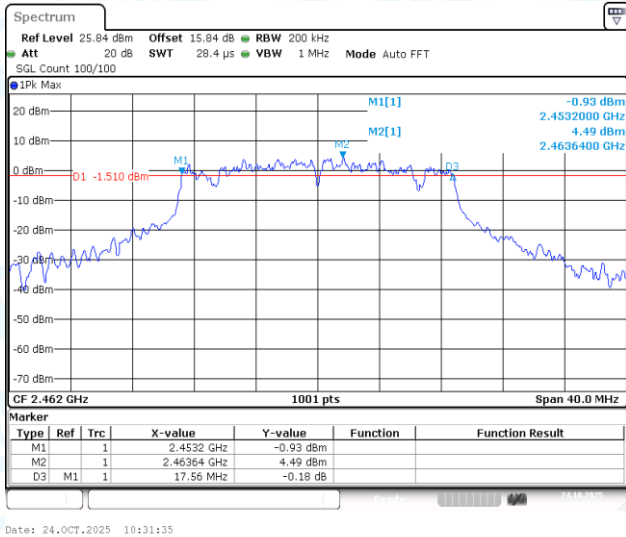
11G-Ant1-2437-PASS

11G-Ant1-2462-PASS



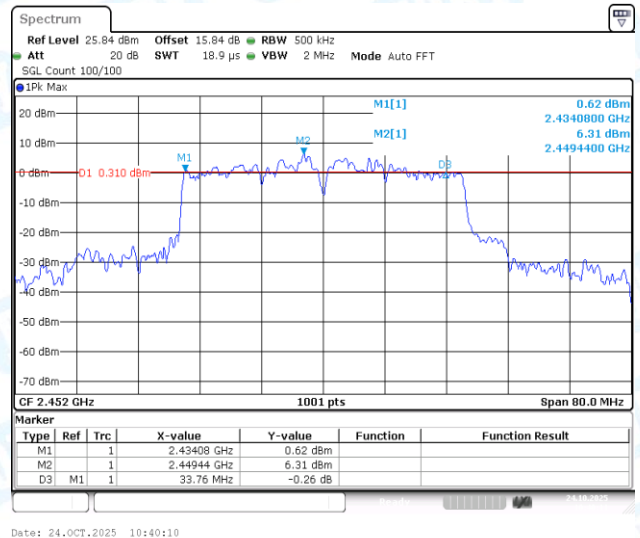
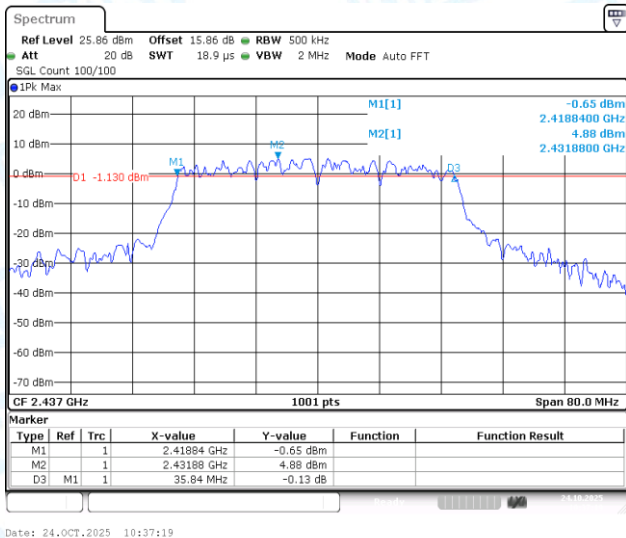
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11N20SISO-Ant1-2437-PASS



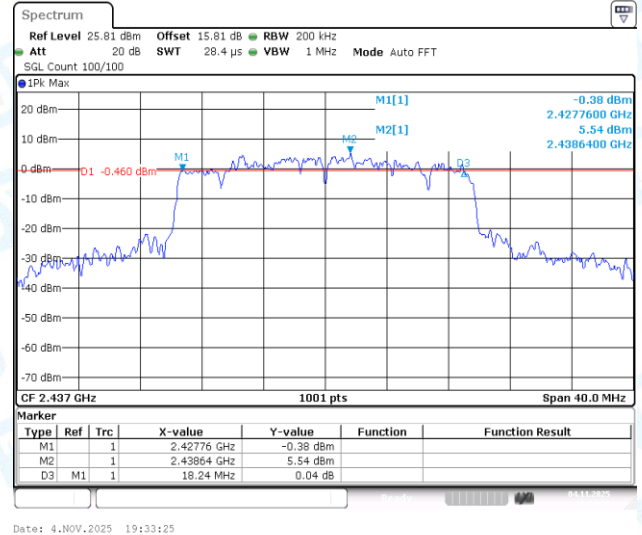
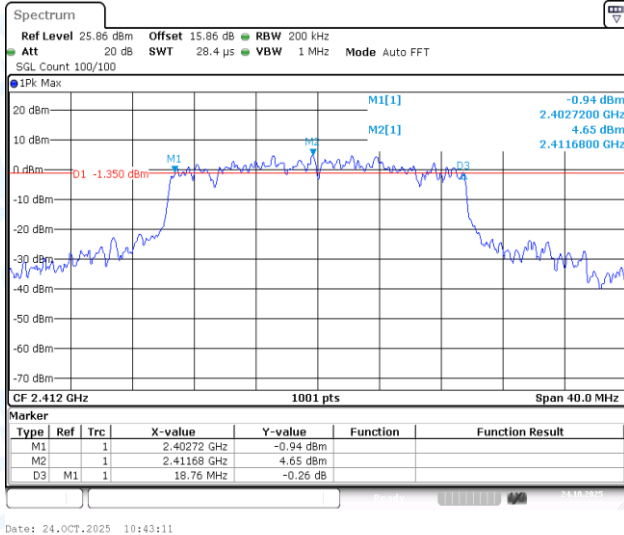
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11N40SISO-Ant1-2422-PASS



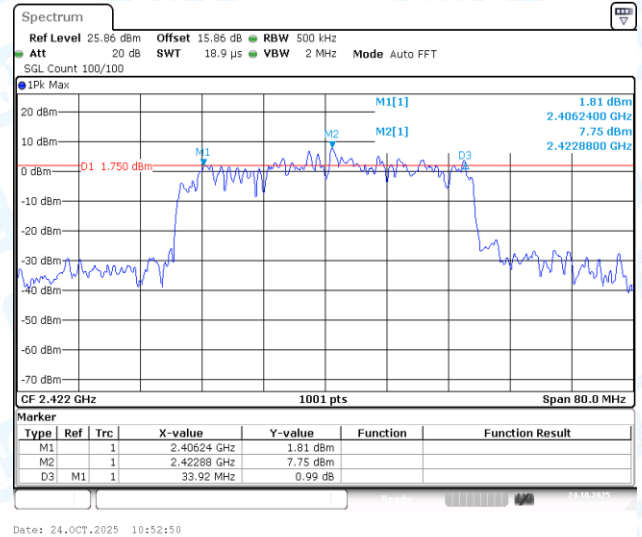
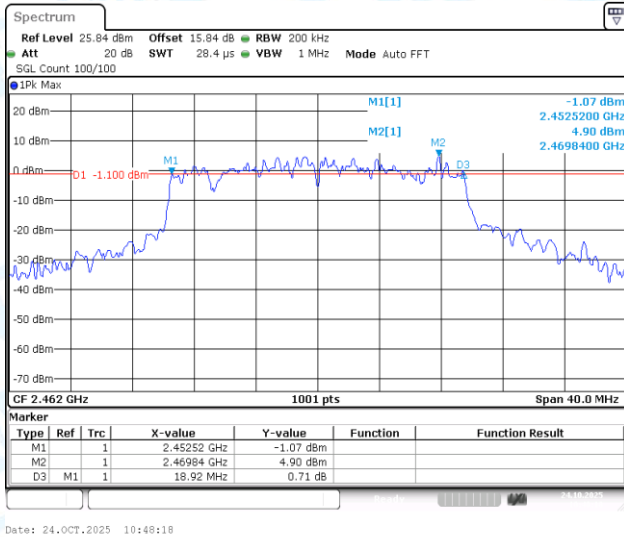
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11N40SISO-Ant1-2452-PASS



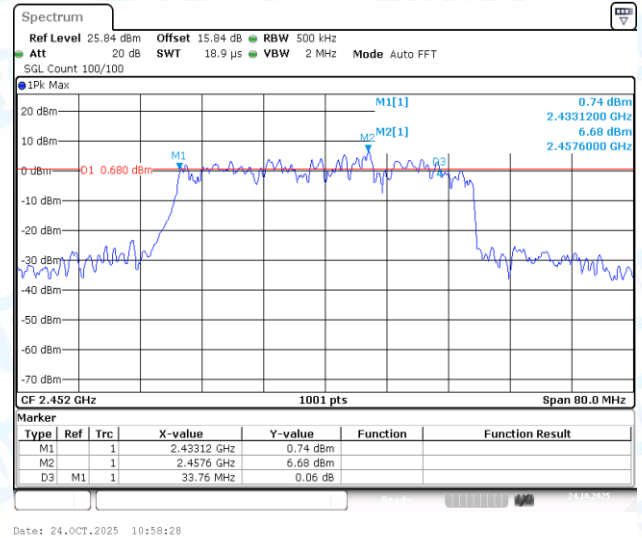
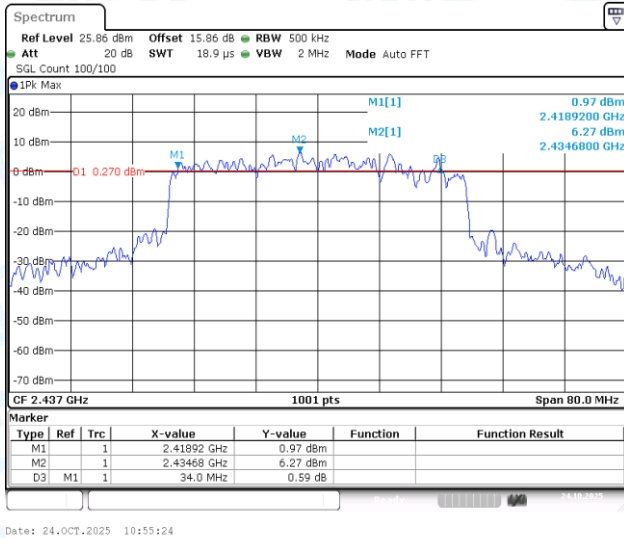
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11AX20SISO-Ant1-2437-PASS



11AX20SISO-Ant1-2462-PASS

11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS

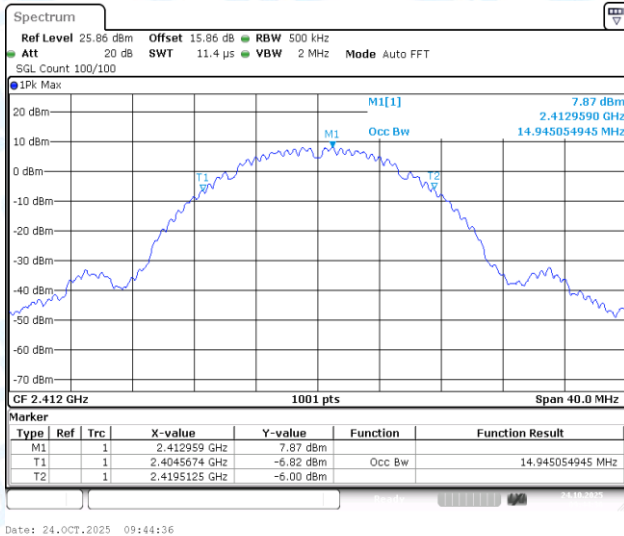
11AX40SISO-Ant1-2452-PASS

2: Occupied Channel Bandwidth

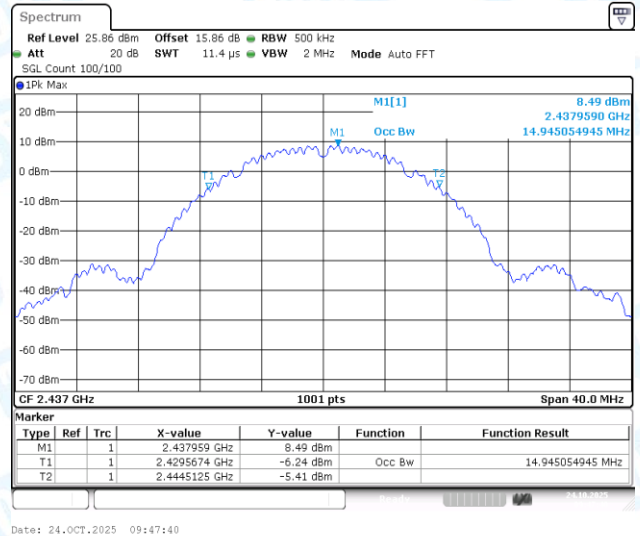
2.1 Test Result

TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.945	2404.5674	2419.5125	---	---
11B	Ant1	2437	14.945	2429.5674	2444.5125	---	---
11B	Ant1	2462	15.025	2454.5275	2469.5524	---	---
11G	Ant1	2412	17.023	2403.4086	2420.4316	---	---
11G	Ant1	2437	17.023	2428.6484	2445.6713	---	---
11G	Ant1	2462	16.743	2453.4885	2470.2318	---	---
11N20SISO	Ant1	2412	17.942	2403.0490	2420.9910	---	---
11N20SISO	Ant1	2437	18.022	2427.8891	2445.9111	---	---
11N20SISO	Ant1	2462	17.902	2452.9291	2470.8312	---	---
11N40SISO	Ant1	2422	36.204	2403.5385	2439.7423	---	---
11N40SISO	Ant1	2437	36.683	2418.6184	2455.3017	---	---
11N40SISO	Ant1	2452	36.044	2433.7782	2469.8222	---	---
11AX20SISO	Ant1	2412	18.941	2402.5295	2421.4705	---	---
11AX20SISO	Ant1	2437	18.941	2427.4895	2446.4306	---	---
11AX20SISO	Ant1	2462	18.901	2452.4895	2471.3906	---	---
11AX40SISO	Ant1	2422	37.642	2403.0589	2440.7013	---	---
11AX40SISO	Ant1	2437	37.882	2417.9790	2455.8611	---	---
11AX40SISO	Ant1	2452	38.122	2432.8192	2470.9411	---	---

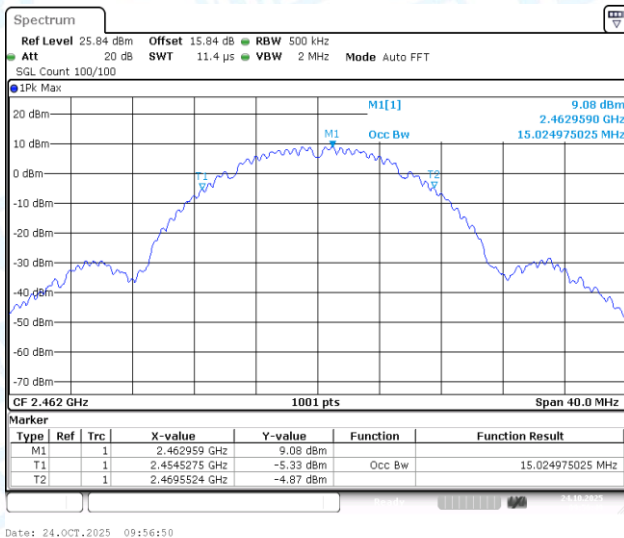
2.2 Test Graphs



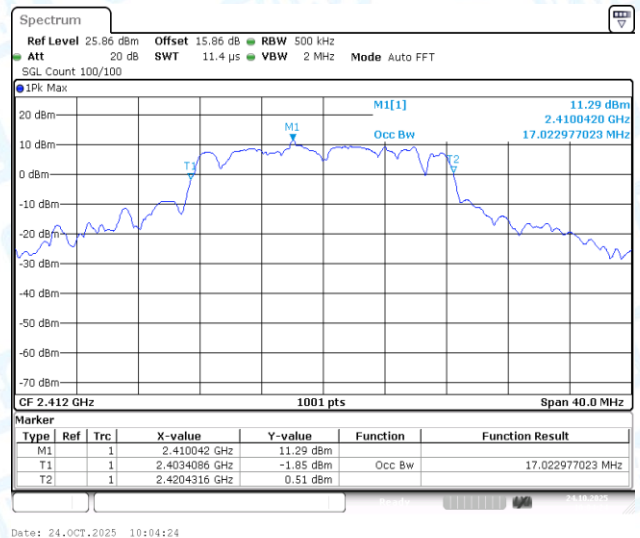
11B-Ant1-2412



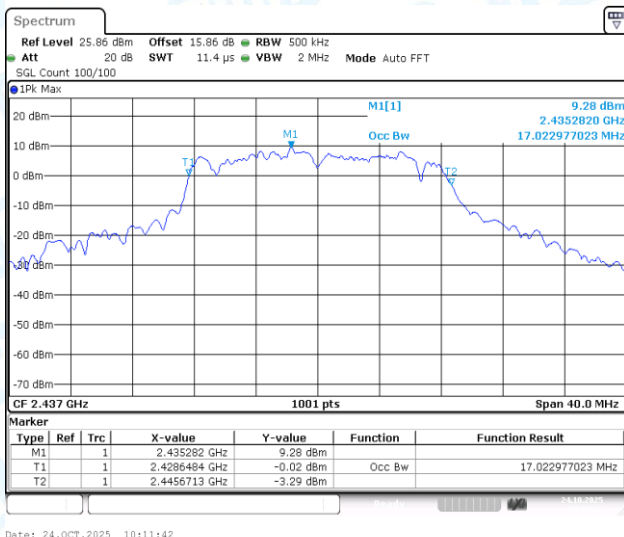
11B-Ant1-2437



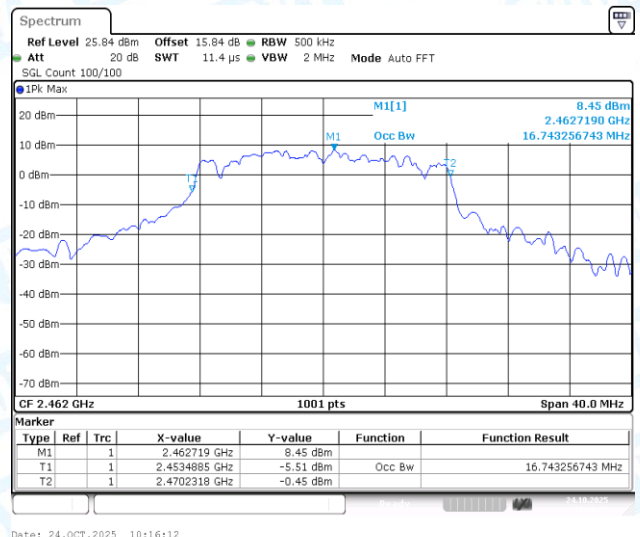
11B-Ant1-2462



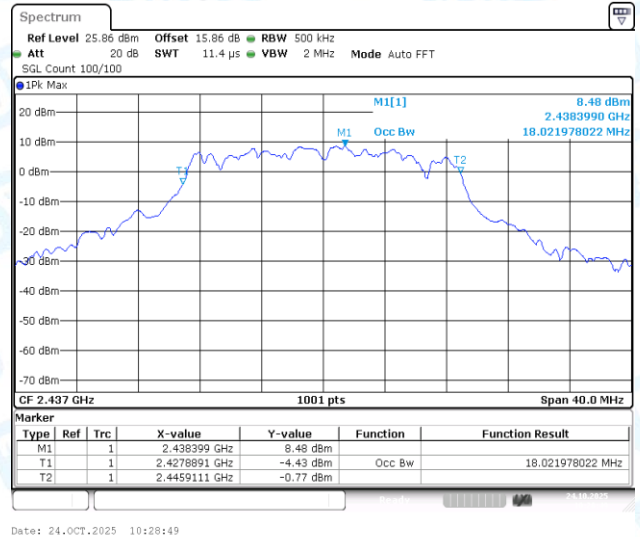
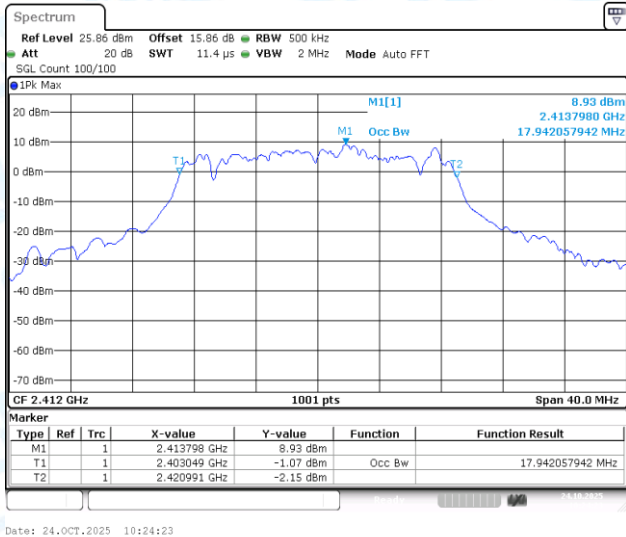
11G-Ant1-2412



11G-Ant1-2437

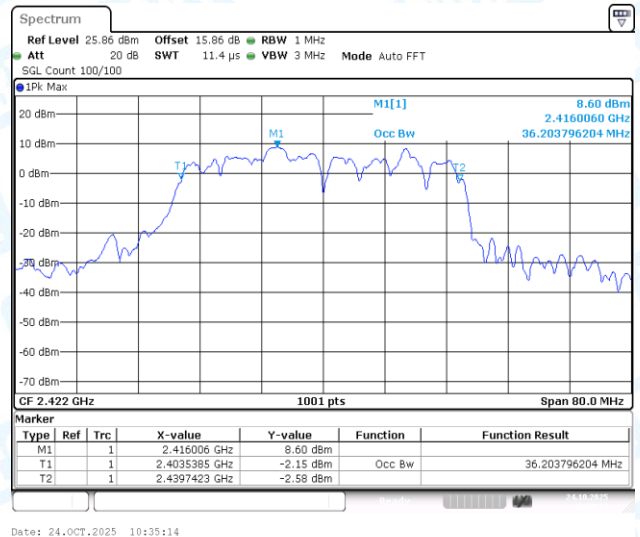
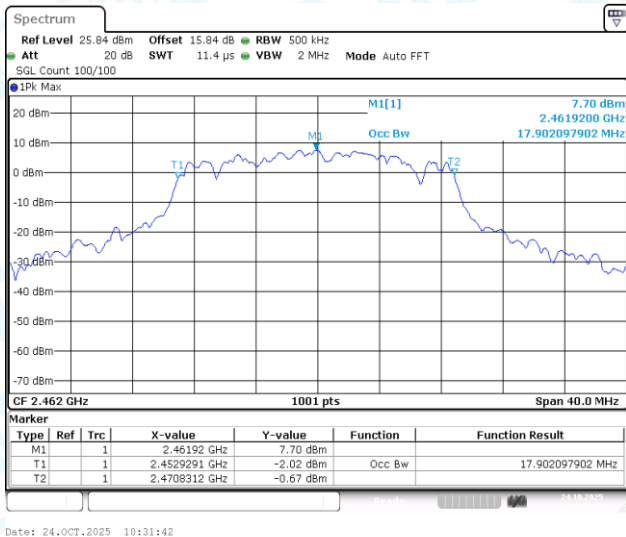


11G-Ant1-2462



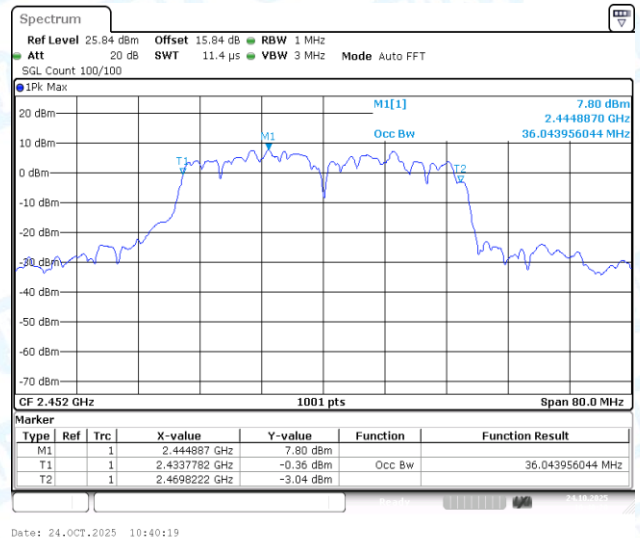
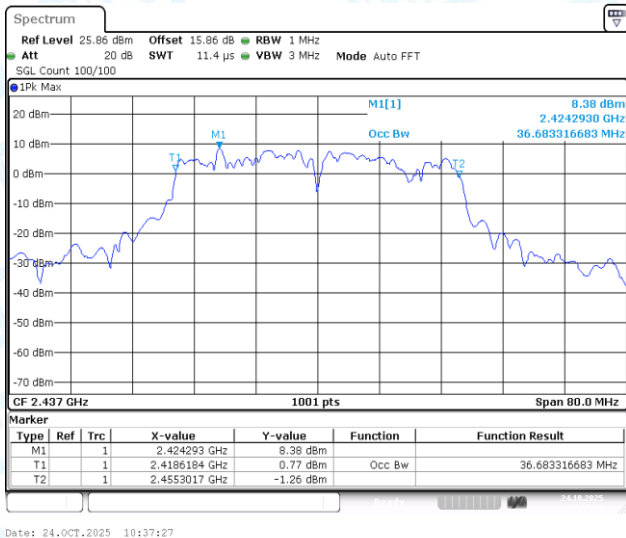
11N20SISO-Ant1-2412

11N20SISO-Ant1-2437



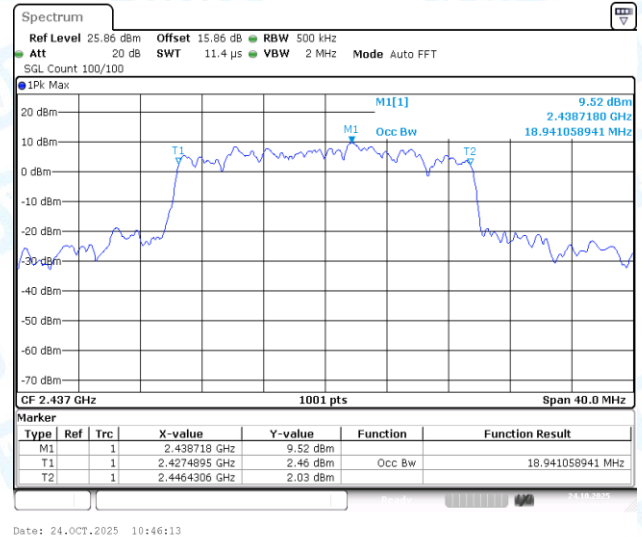
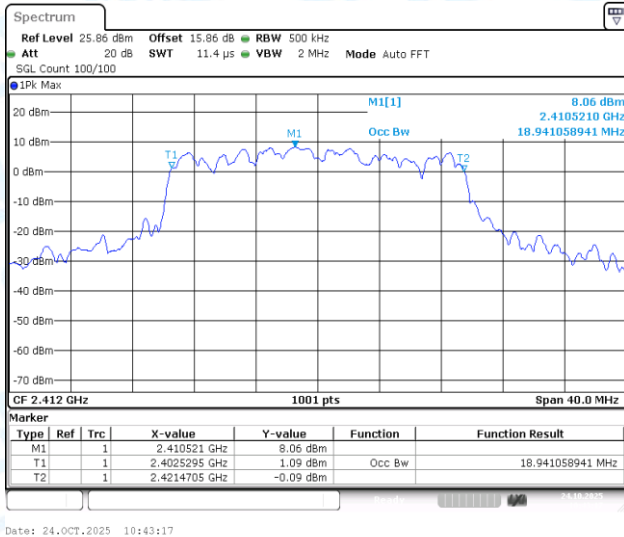
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11N40SISO-Ant1-2422



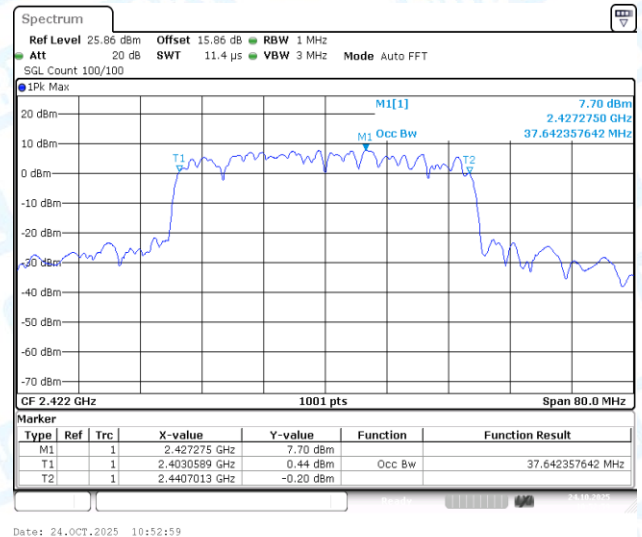
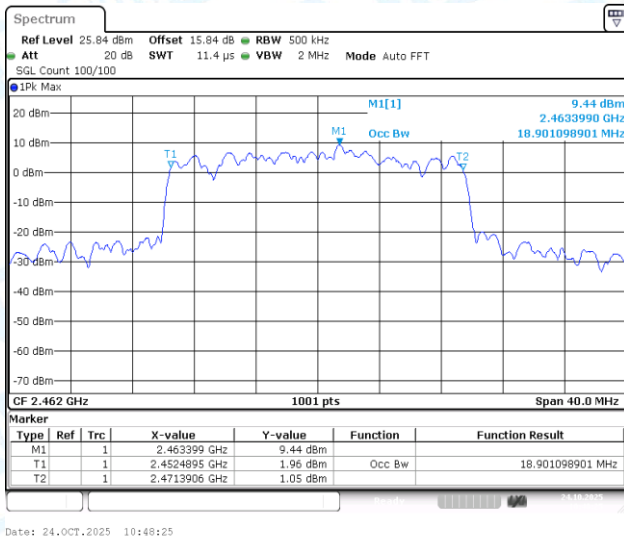
11N40SISO-Ant1-2437

11N40SISO-Ant1-2452



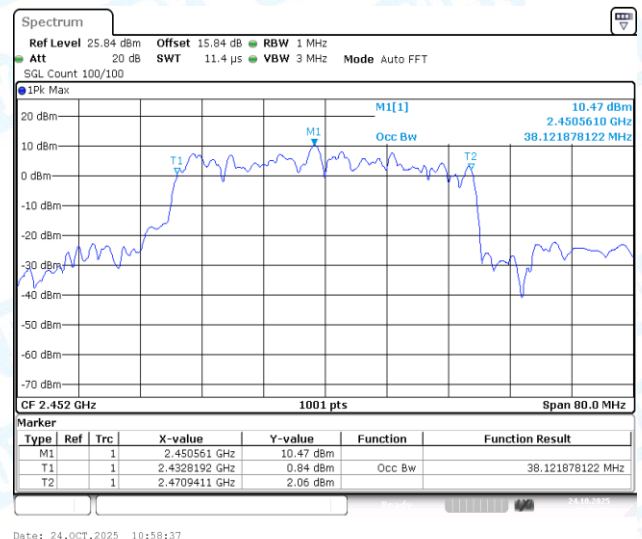
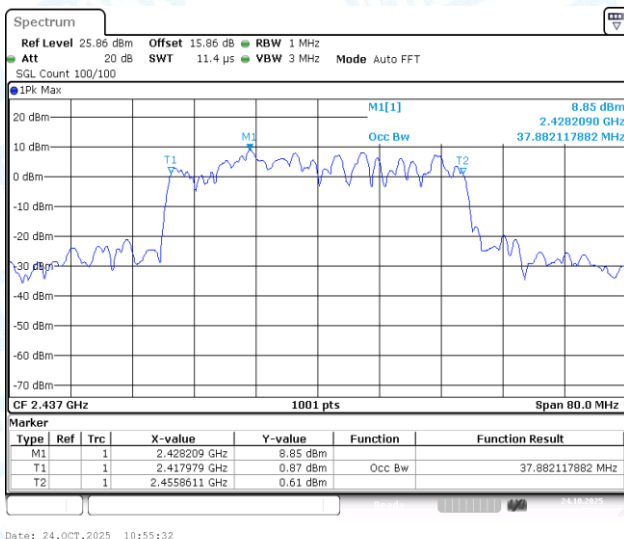
11AX20SISO-Ant1-2412

11AX20SISO-Ant1-2437



11AX20SISO-Ant1-2462

11AX40SISO-Ant1-2422



11AX40SISO-Ant1-2437

11AX40SISO-Ant1-2452

3: Maximum conducted output power

3.1 Test Result Average

Test Mode	Ant.	Frequency [MHz]	Raw Power [dBm]	DC Factor	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	11.51	2.60	14.11	≤30.00	PASS
11B	Ant1	2437	11.36	2.60	13.96	≤30.00	PASS
11B	Ant1	2462	12.07	2.60	14.67	≤30.00	PASS
11G	Ant1	2412	7.71	7.76	15.47	≤30.00	PASS
11G	Ant1	2437	8.07	7.76	15.83	≤30.00	PASS
11G	Ant1	2462	1.95	7.76	9.71	≤30.00	PASS
11N20SISO	Ant1	2412	8.56	7.98	16.54	≤30.00	PASS
11N20SISO	Ant1	2437	7.68	7.98	15.66	≤30.00	PASS
11N20SISO	Ant1	2462	7.22	7.98	15.20	≤30.00	PASS
11N40SISO	Ant1	2422	5.13	10.76	15.89	≤30.00	PASS
11N40SISO	Ant1	2437	5.78	10.76	16.54	≤30.00	PASS
11N40SISO	Ant1	2452	5.48	10.76	16.24	≤30.00	PASS
11AX20SISO	Ant1	2412	6.08	9.19	15.27	≤30.00	PASS
11AX20SISO	Ant1	2437	6.46	9.19	15.65	≤30.00	PASS
11AX20SISO	Ant1	2462	5.99	9.19	15.18	≤30.00	PASS
11AX40SISO	Ant1	2422	4.23	11.41	15.64	≤30.00	PASS
11AX40SISO	Ant1	2437	4.84	11.41	16.25	≤30.00	PASS
11AX40SISO	Ant1	2452	4.57	11.41	15.98	≤30.00	PASS

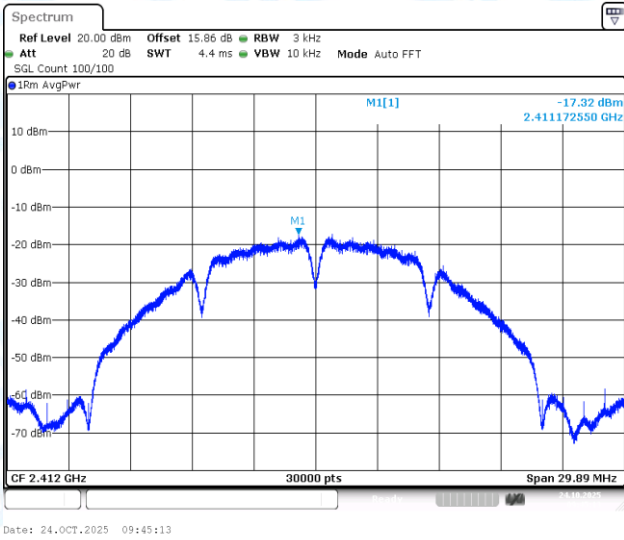
4: Maximum power spectral density

4.1 Test Result

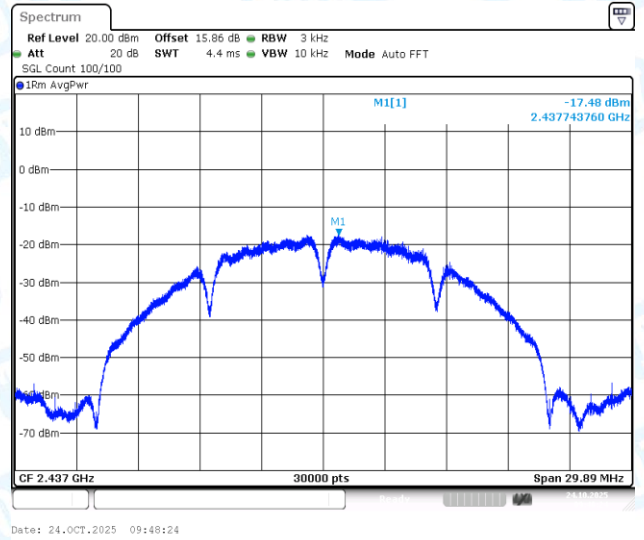
TestMode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factor	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.32	2.60	-14.72	≤8.00	PASS
11B	Ant1	2437	-17.48	2.60	-14.88	≤8.00	PASS
11B	Ant1	2462	-17.49	2.60	-14.89	≤8.00	PASS
11G	Ant1	2412	-22.11	7.76	-14.35	≤8.00	PASS
11G	Ant1	2437	-22.77	7.76	-15.01	≤8.00	PASS
11G	Ant1	2462	-28.49	7.76	-20.73	≤8.00	PASS
11N20SISO	Ant1	2412	-22.46	7.98	-14.48	≤8.00	PASS
11N20SISO	Ant1	2437	-22.28	7.98	-14.30	≤8.00	PASS
11N20SISO	Ant1	2462	-24.61	7.98	-16.63	≤8.00	PASS
11N40SISO	Ant1	2422	-28.07	10.76	-17.31	≤8.00	PASS
11N40SISO	Ant1	2437	-27.85	10.76	-17.09	≤8.00	PASS
11N40SISO	Ant1	2452	-27.93	10.76	-17.17	≤8.00	PASS
11AX20SISO	Ant1	2412	-24.29	9.19	-15.10	≤8.00	PASS
11AX20SISO	Ant1	2437	-23.97	9.19	-14.78	≤8.00	PASS
11AX20SISO	Ant1	2462	-24.92	9.19	-15.73	≤8.00	PASS
11AX40SISO	Ant1	2422	-29.77	11.41	-18.36	≤8.00	PASS
11AX40SISO	Ant1	2437	-27.57	11.41	-16.16	≤8.00	PASS
11AX40SISO	Ant1	2452	-26.45	11.41	-15.04	≤8.00	PASS

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

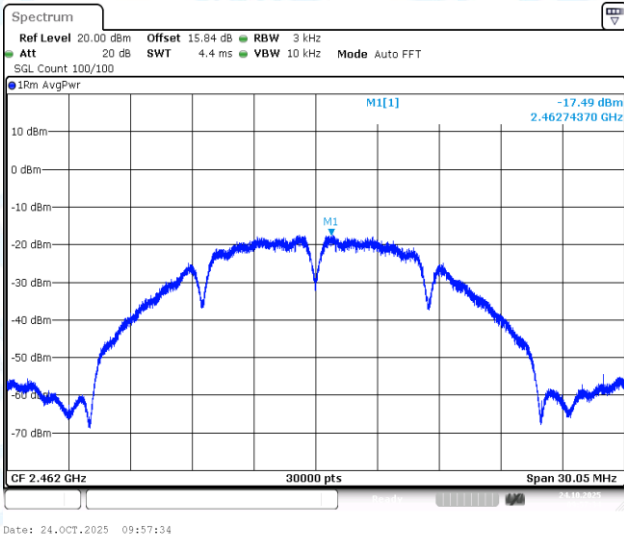
4.2 Test Graphs



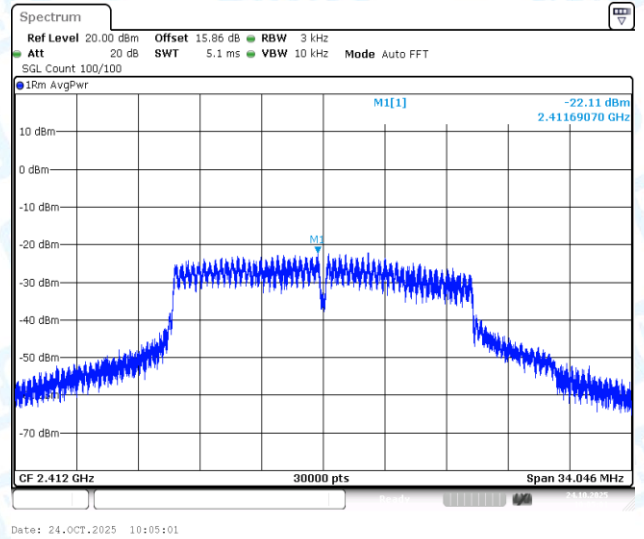
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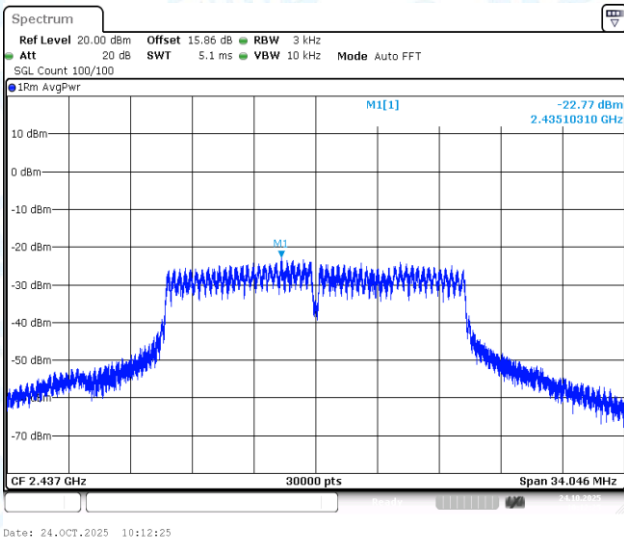
11B-Ant1-2437-PASS



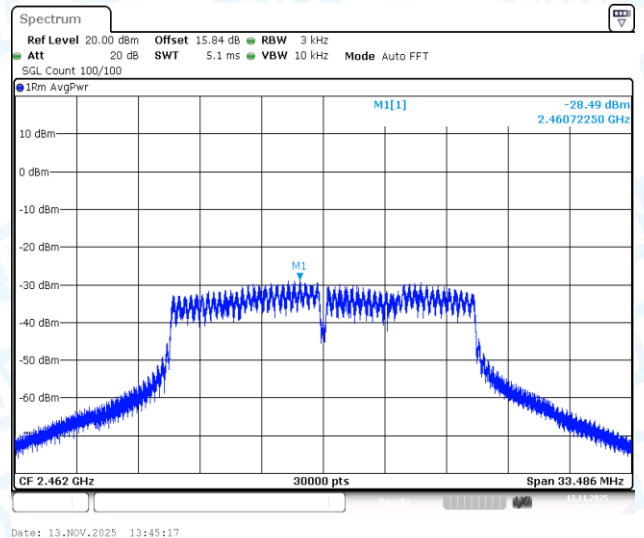
11B-Ant1-2462-PASS



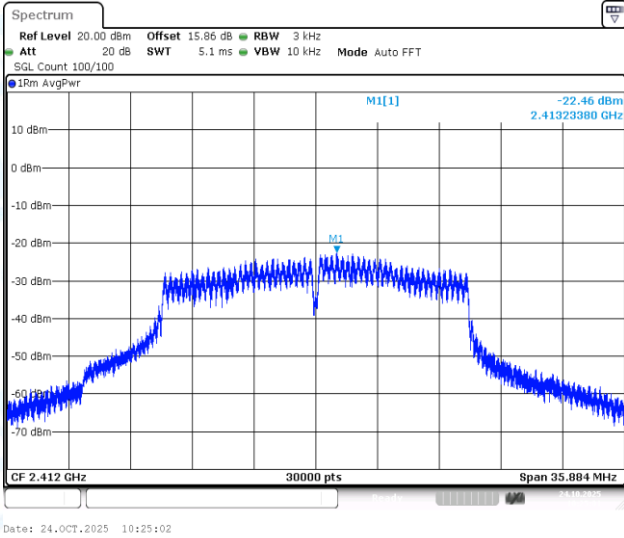
11G-Ant1-2412-PASS



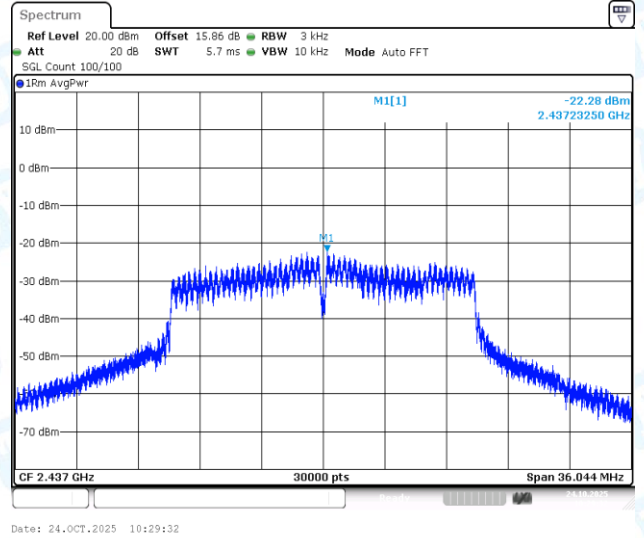
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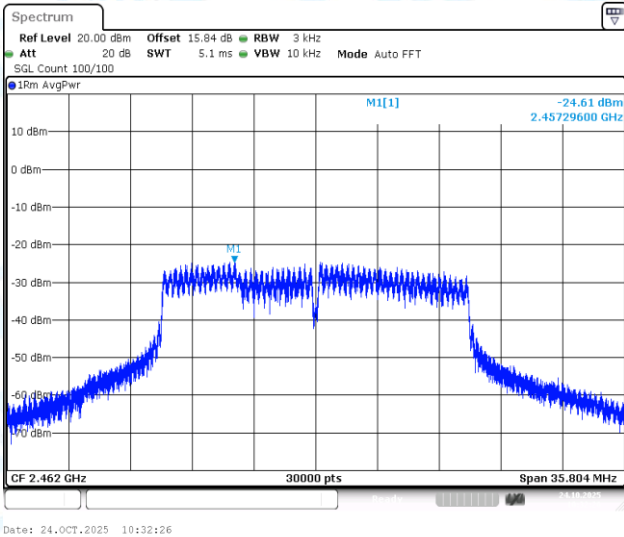
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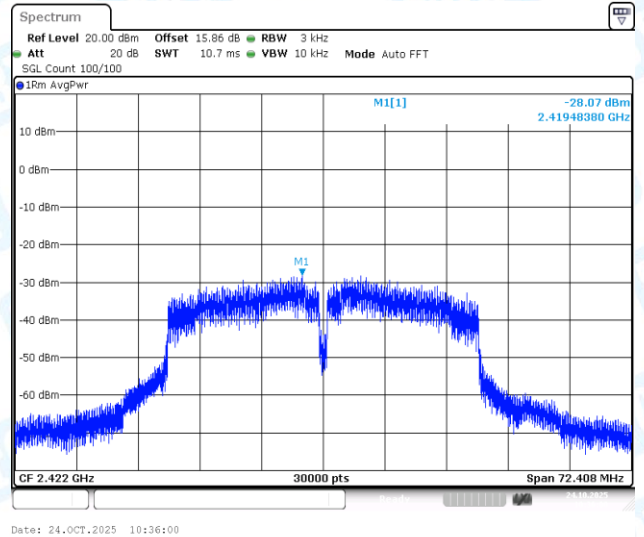
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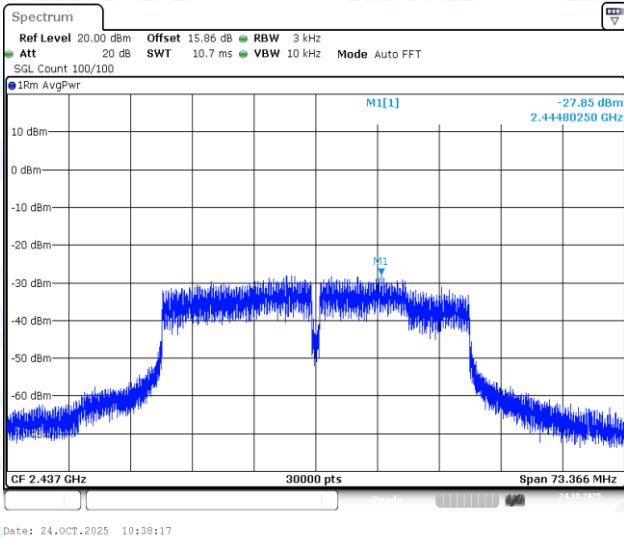
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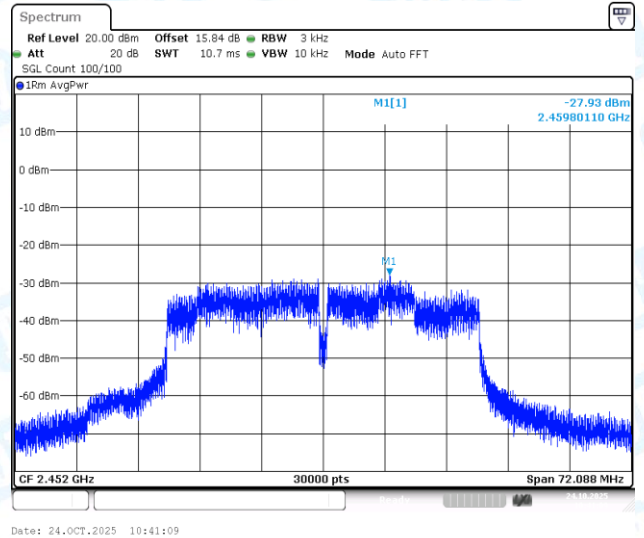
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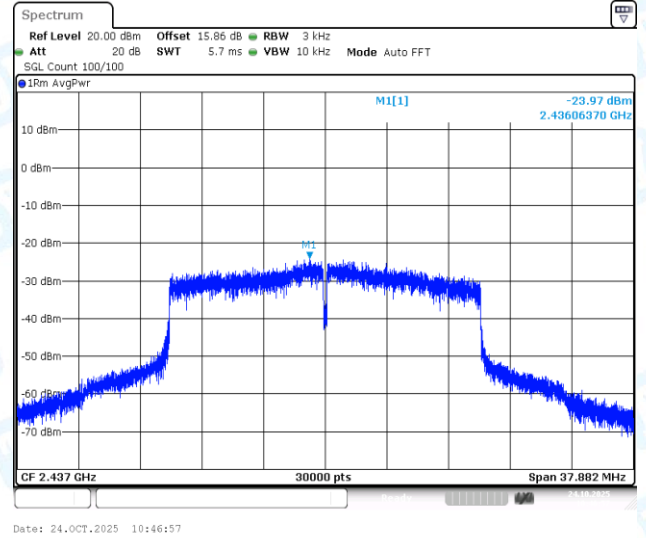
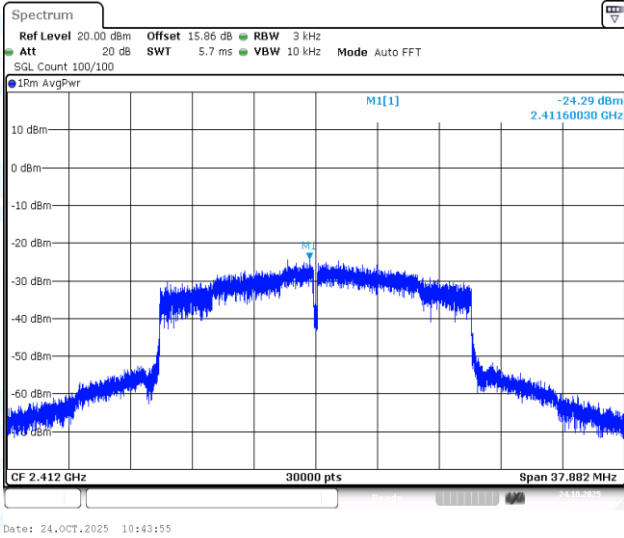
11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS

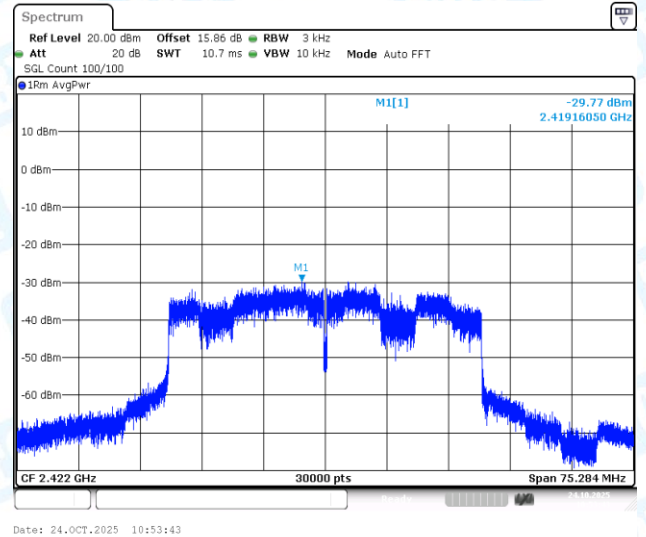
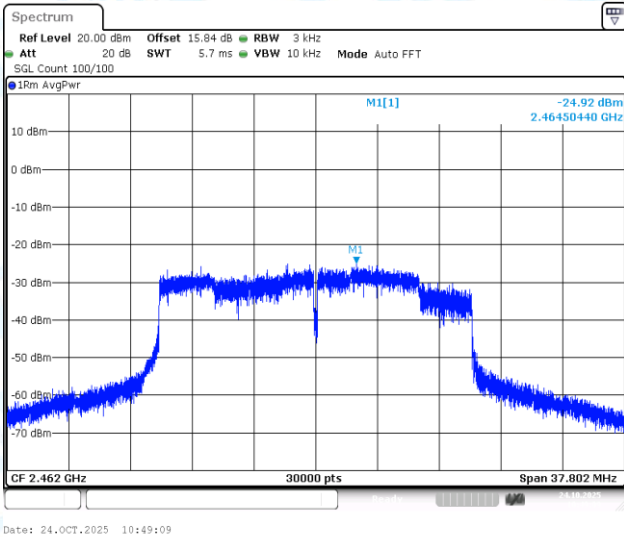


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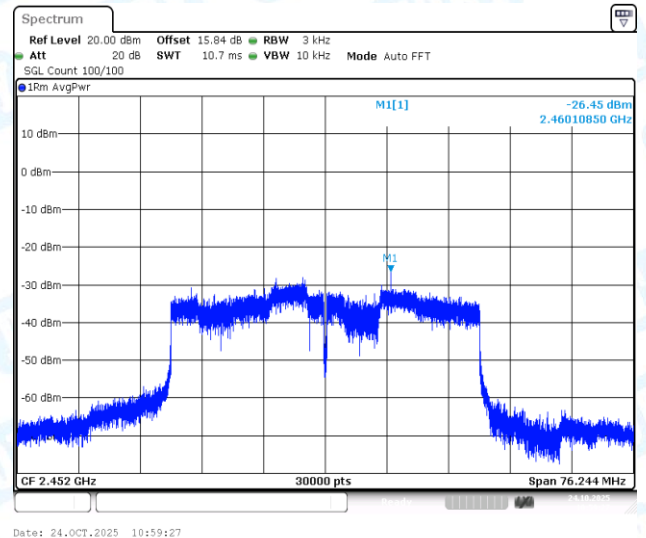
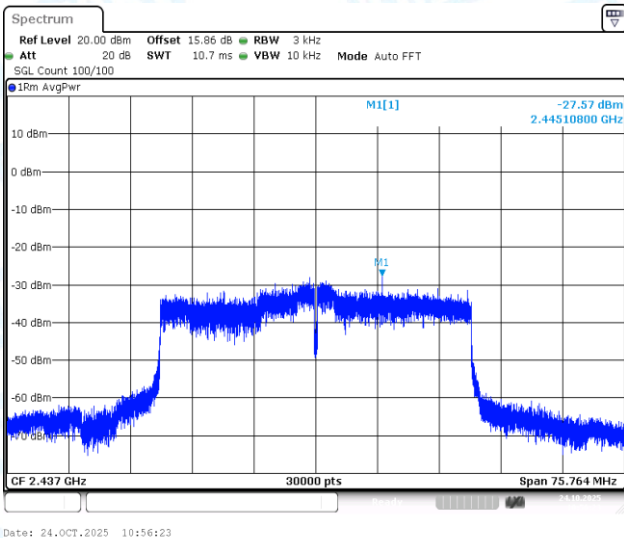
11AX20SISO-Ant1-2412-PASS

11AX20SISO-Ant1-2437-PASS



11AX20SISO-Ant1-2462-PASS

11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS

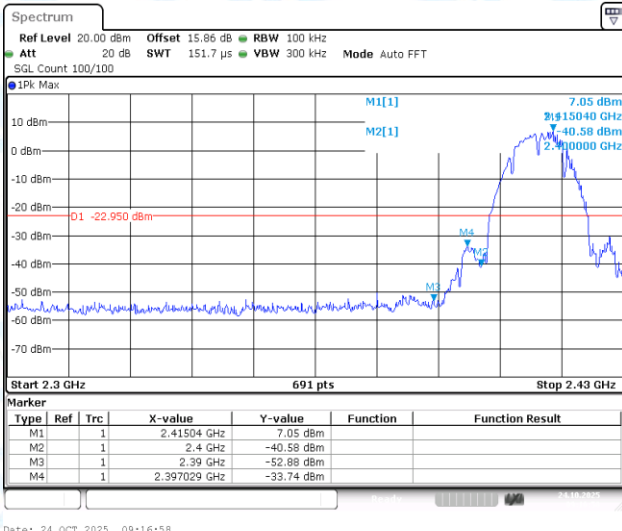
11AX40SISO-Ant1-2452-PASS

5: Band edge measurements

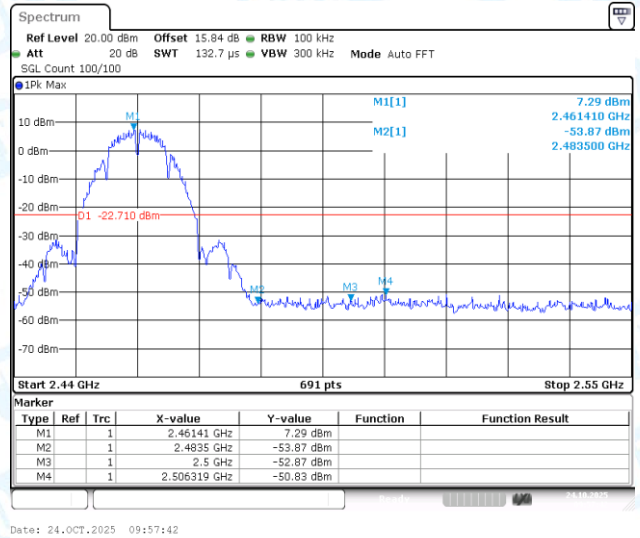
5.1 Test Result

TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.05	-33.74	≤-22.95	PASS
11B	Ant1	High	2462	7.29	-50.83	≤-22.71	PASS
11G	Ant1	Low	2412	2.33	-24.54	≤-27.67	FAIL
11G	Ant1	High	2462	2.49	-41.32	≤-27.51	PASS
11N20SISO	Ant1	Low	2412	2.35	-24.5	≤-27.65	FAIL

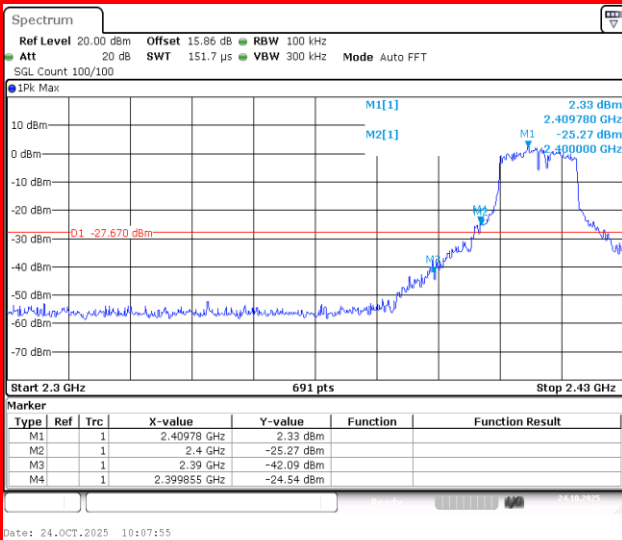
5.2 Test Graphs



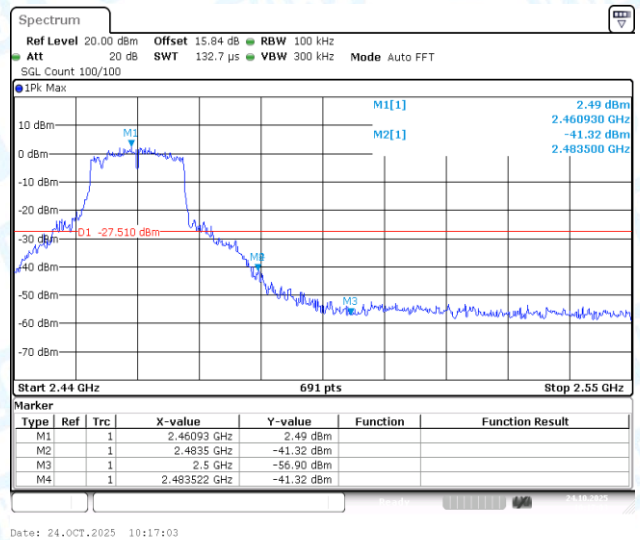
11B-Ant1-2412-PASS



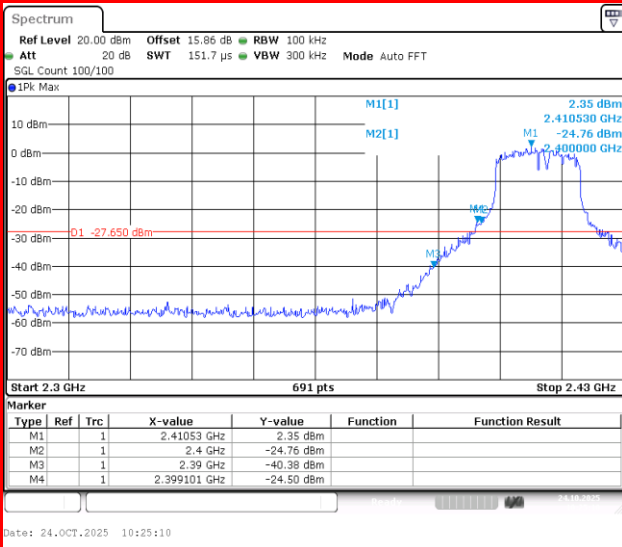
11B-Ant1-2462-PASS



11G-Ant1-2412-FAIL



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-FAIL

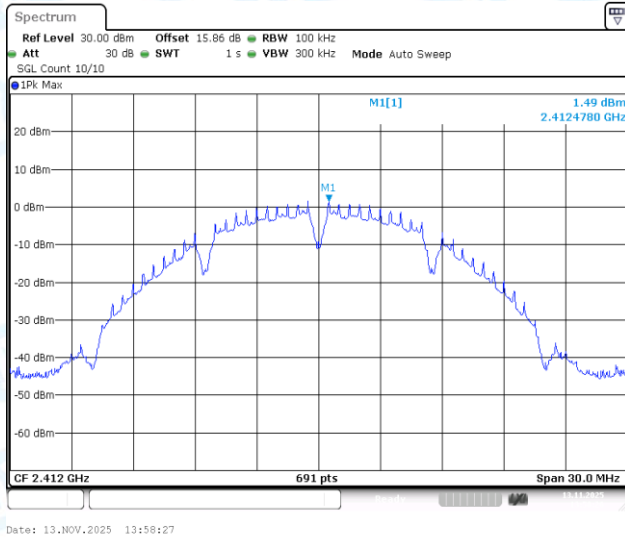
6: Conducted Spurious Emission

6.1 Test Result

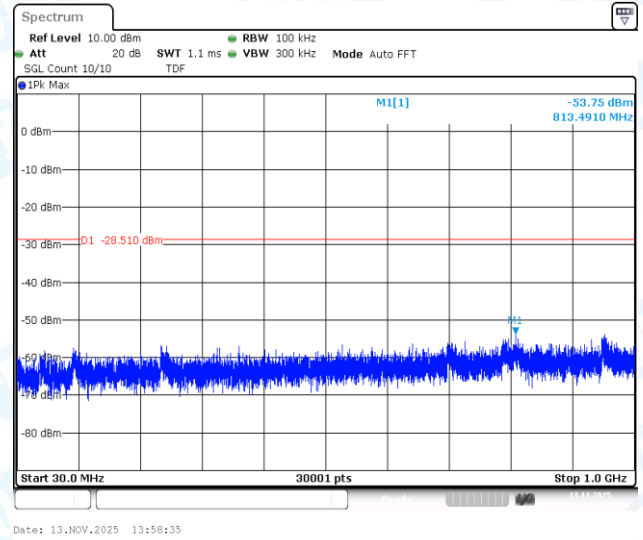
TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	1.49	1.49	---	PASS
11B	Ant1	2412	30~1000	1.49	-53.75	≤-28.51	PASS
11B	Ant1	2412	1000~26500	1.49	-37.52	≤-28.51	PASS
11B	Ant1	2437	0~Reference	1.35	1.35	---	PASS
11B	Ant1	2437	30~1000	1.35	-53.32	≤-28.65	PASS
11B	Ant1	2437	1000~26500	1.35	-36.9	≤-28.65	PASS
11B	Ant1	2462	0~Reference	1.06	1.06	---	PASS
11B	Ant1	2462	30~1000	1.06	-52.97	≤-28.94	PASS
11B	Ant1	2462	1000~26500	1.06	-37.04	≤-28.94	PASS
11G	Ant1	2412	0~Reference	0.48	0.48	---	PASS
11G	Ant1	2412	30~1000	0.48	-53.14	≤-29.52	PASS
11G	Ant1	2412	1000~26500	0.48	-37.12	≤-29.52	PASS
11G	Ant1	2437	0~Reference	0.65	0.65	---	PASS
11G	Ant1	2437	30~1000	0.65	-53.65	≤-29.35	PASS
11G	Ant1	2437	1000~26500	0.65	-37.18	≤-29.35	PASS
11G	Ant1	2462	0~Reference	-0.11	-0.11	---	PASS
11G	Ant1	2462	30~1000	-0.11	-54.2	≤-30.11	PASS
11G	Ant1	2462	1000~26500	-0.11	-37.07	≤-30.11	PASS
11N20SISO	Ant1	2412	0~Reference	0.29	0.29	---	PASS
11N20SISO	Ant1	2412	30~1000	0.29	-54.24	≤-29.71	PASS
11N20SISO	Ant1	2412	1000~26500	0.29	-36.08	≤-29.71	PASS
11N20SISO	Ant1	2437	0~Reference	0.49	0.49	---	PASS
11N20SISO	Ant1	2437	30~1000	0.49	-54.43	≤-29.51	PASS
11N20SISO	Ant1	2437	1000~26500	0.49	-36.88	≤-29.51	PASS
11N20SISO	Ant1	2462	0~Reference	-0.18	-0.18	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.18	-53.52	≤-30.18	PASS
11N20SISO	Ant1	2462	1000~26500	-0.18	-36.34	≤-30.18	PASS
11N40SISO	Ant1	2422	0~Reference	-2.88	-2.88	---	PASS
11N40SISO	Ant1	2422	30~1000	-2.88	-53.98	≤-32.88	PASS
11N40SISO	Ant1	2422	1000~26500	-2.88	-37.37	≤-32.88	PASS
11N40SISO	Ant1	2437	0~Reference	-2.12	-2.12	---	PASS
11N40SISO	Ant1	2437	30~1000	-2.12	-52.43	≤-32.12	PASS
11N40SISO	Ant1	2437	1000~26500	-2.12	-36.94	≤-32.12	PASS
11N40SISO	Ant1	2452	0~Reference	-2.44	-2.44	---	PASS
11N40SISO	Ant1	2452	30~1000	-2.44	-54.19	≤-32.44	PASS
11N40SISO	Ant1	2452	1000~26500	-2.44	-36.7	≤-32.44	PASS
11AX20SISO	Ant1	2412	0~Reference	0.29	0.29	---	PASS
11AX20SISO	Ant1	2412	30~1000	0.29	-52.64	≤-29.71	PASS
11AX20SISO	Ant1	2412	1000~26500	0.29	-36.85	≤-29.71	PASS
11AX20SISO	Ant1	2437	0~Reference	0.54	0.54	---	PASS

11AX20SISO	Ant1	2437	30~1000	0.54	-53.38	≤-29.46	PASS
11AX20SISO	Ant1	2437	1000~26500	0.54	-36.76	≤-29.46	PASS
11AX20SISO	Ant1	2462	0~Reference	-0.09	-0.09	---	PASS
11AX20SISO	Ant1	2462	30~1000	-0.09	-54.07	≤-30.09	PASS
11AX20SISO	Ant1	2462	1000~26500	-0.09	-36.39	≤-30.09	PASS
11AX40SISO	Ant1	2422	0~Reference	-2.65	-2.65	---	PASS
11AX40SISO	Ant1	2422	30~1000	-2.65	-53.73	≤-32.65	PASS
11AX40SISO	Ant1	2422	1000~26500	-2.65	-36.68	≤-32.65	PASS
11AX40SISO	Ant1	2437	0~Reference	-2.27	-2.27	---	PASS
11AX40SISO	Ant1	2437	30~1000	-2.27	-53.15	≤-32.27	PASS
11AX40SISO	Ant1	2437	1000~26500	-2.27	-37.27	≤-32.27	PASS
11AX40SISO	Ant1	2452	0~Reference	-2.47	-2.47	---	PASS
11AX40SISO	Ant1	2452	30~1000	-2.47	-53.74	≤-32.47	PASS
11AX40SISO	Ant1	2452	1000~26500	-2.47	-37.18	≤-32.47	PASS

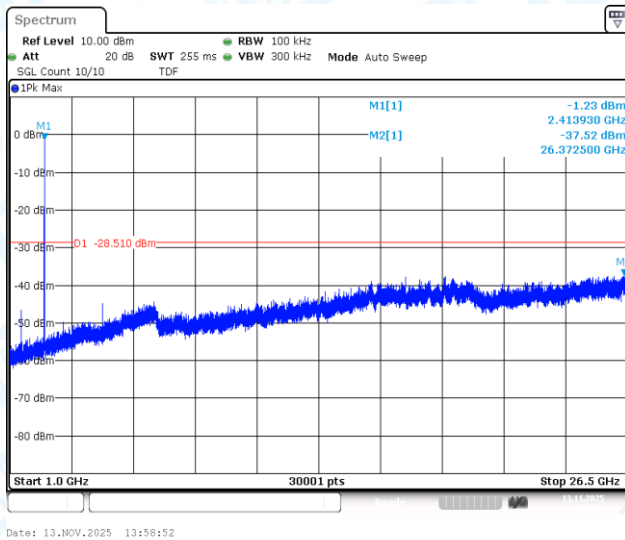
6.2 Test Graphs



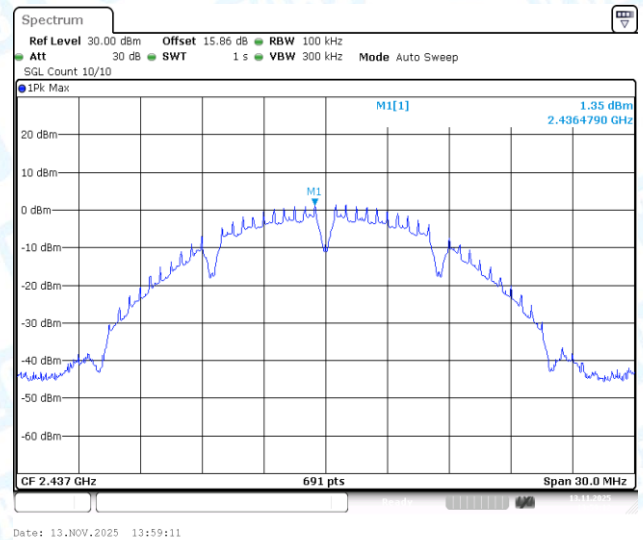
11B-Ant1-2412-0~Reference-PASS



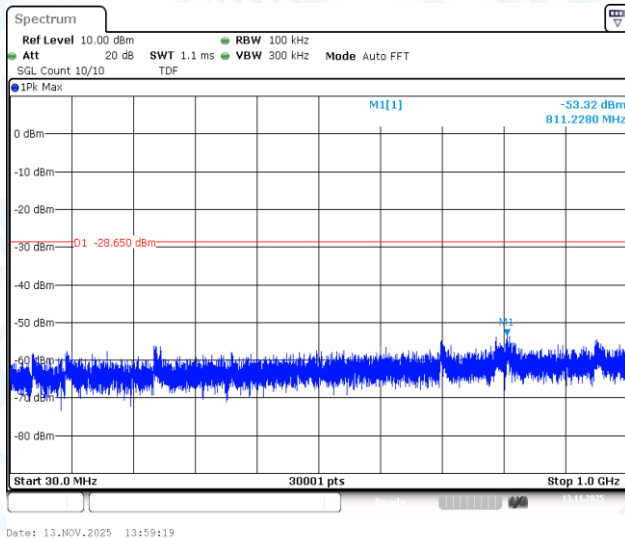
11B-Ant1-2412-30~1000-PASS



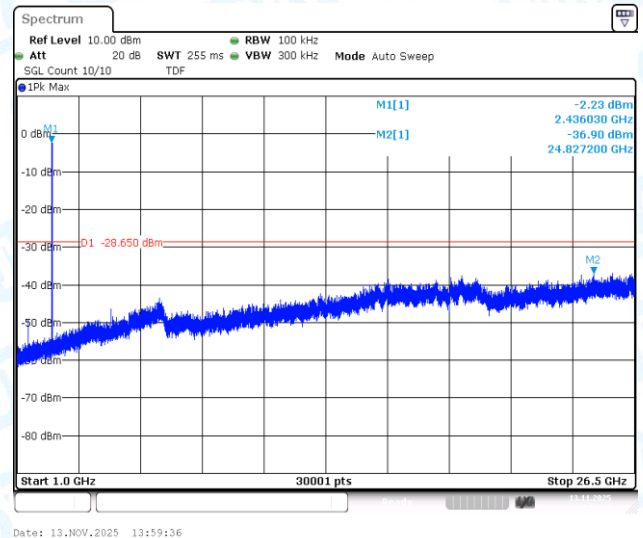
11B-Ant1-2412-1000~26500-PASS



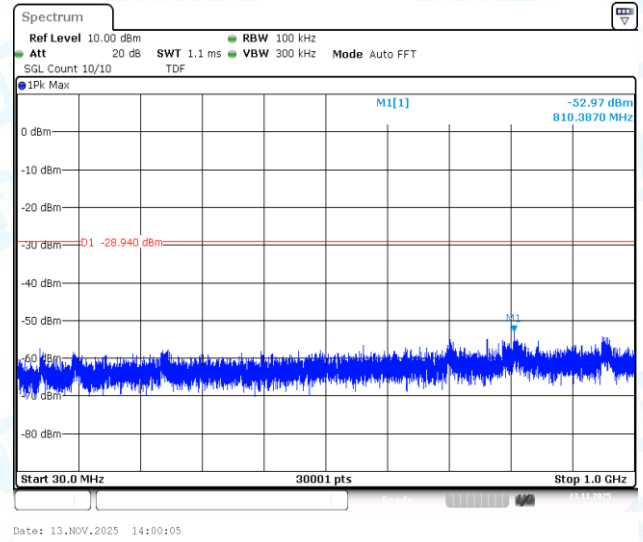
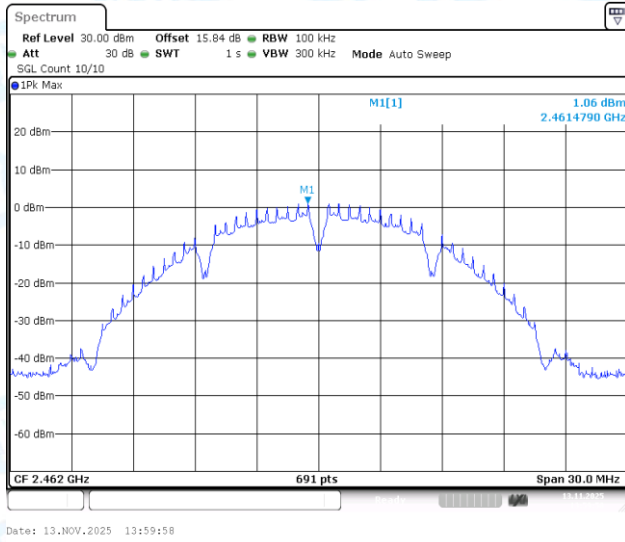
11B-Ant1-2437-0~Reference-PASS



11B-Ant1-2437-30~1000-PASS

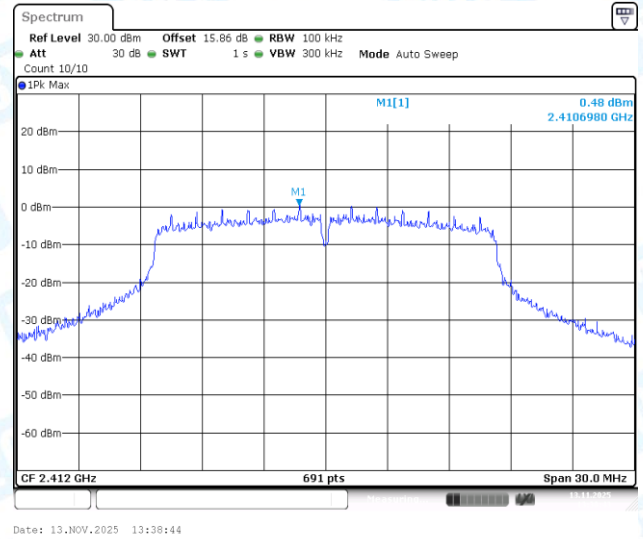
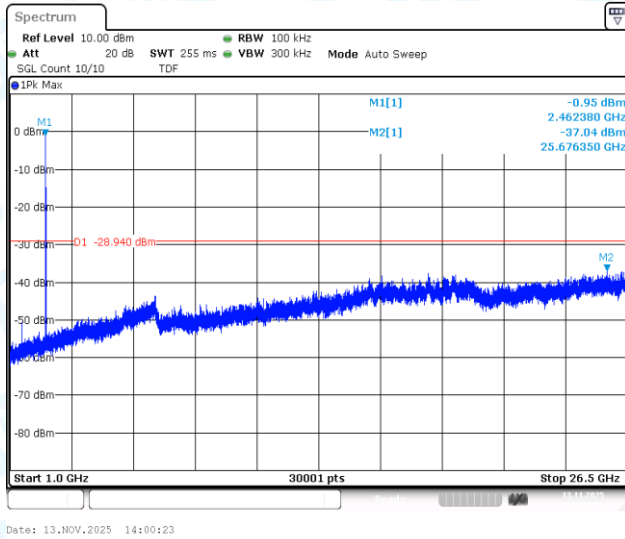


11B-Ant1-2437-1000~26500-PASS



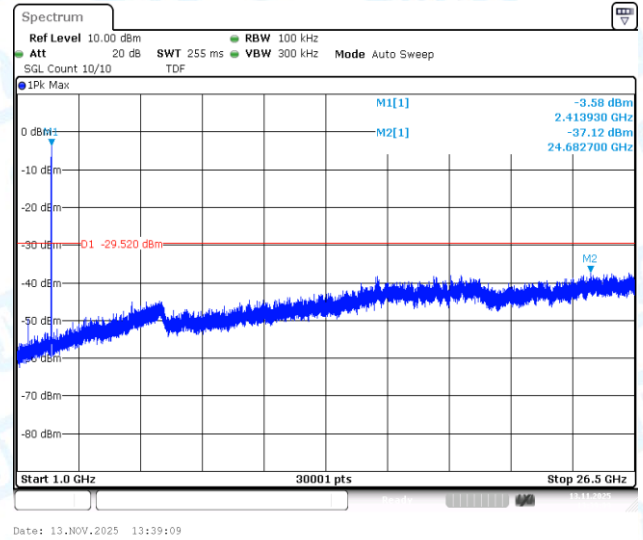
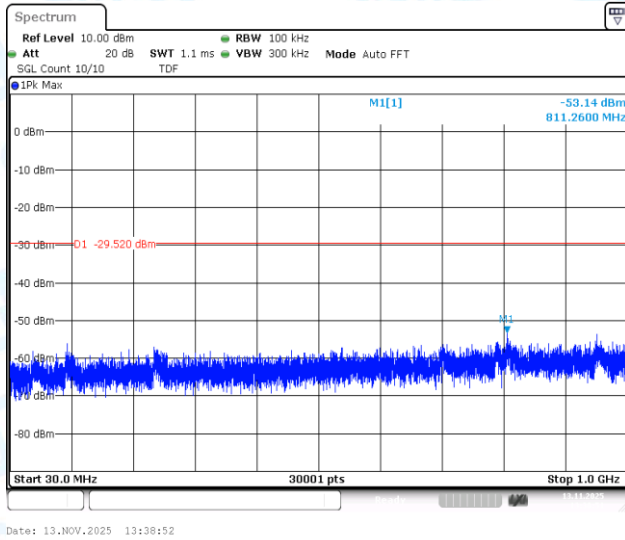
11B-Ant1-2462-0~Reference-PASS

11B-Ant1-2462-30~1000-PASS



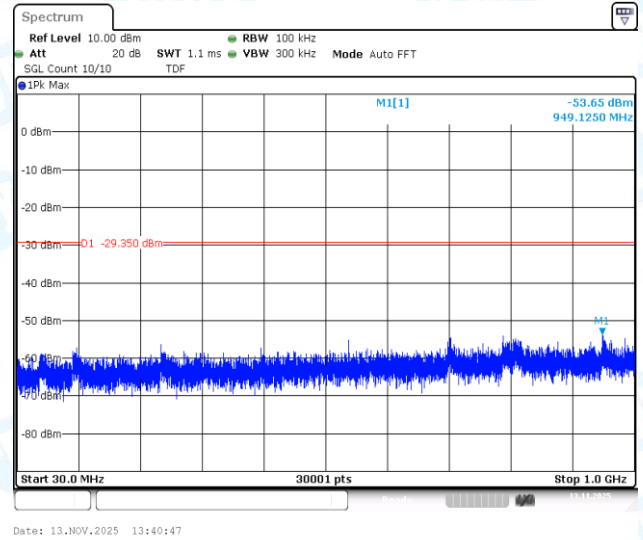
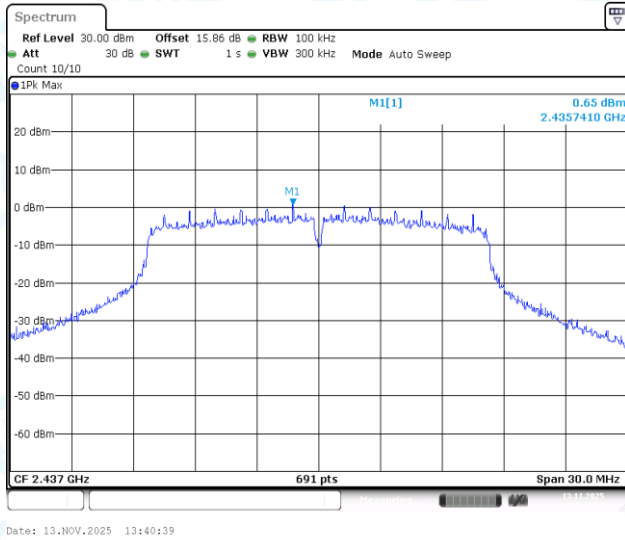
11B-Ant1-2462-1000~26500-PASS

11G-Ant1-2412-0~Reference-PASS



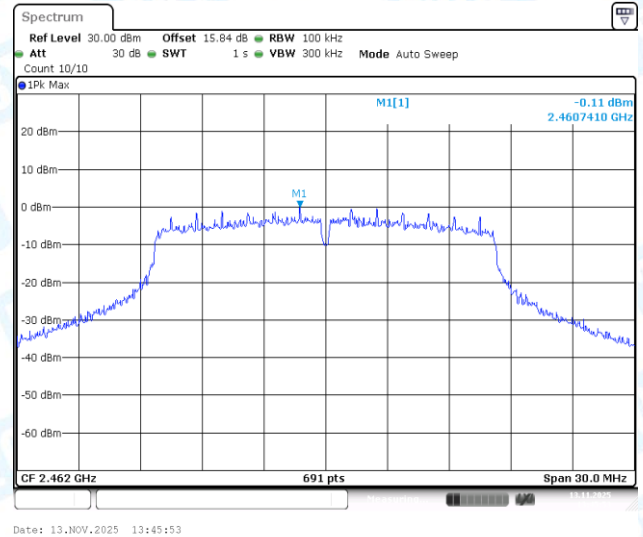
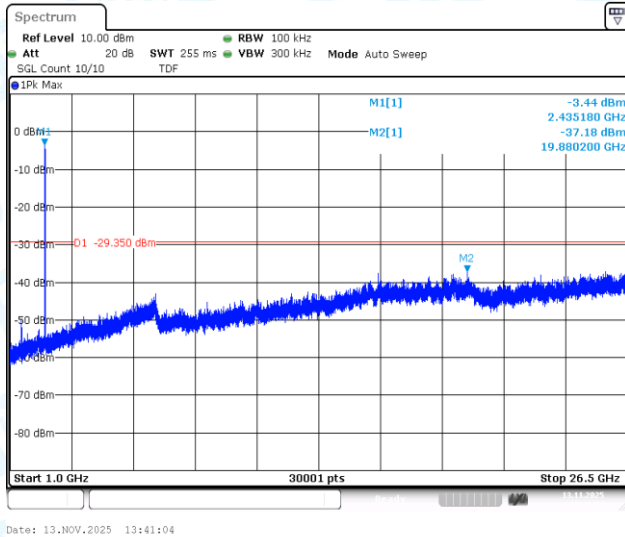
11G-Ant1-2412-30~1000-PASS

11G-Ant1-2412-1000~26500-PASS



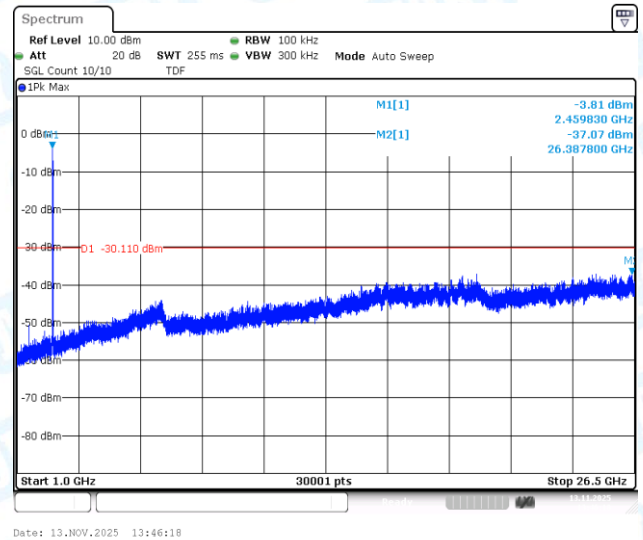
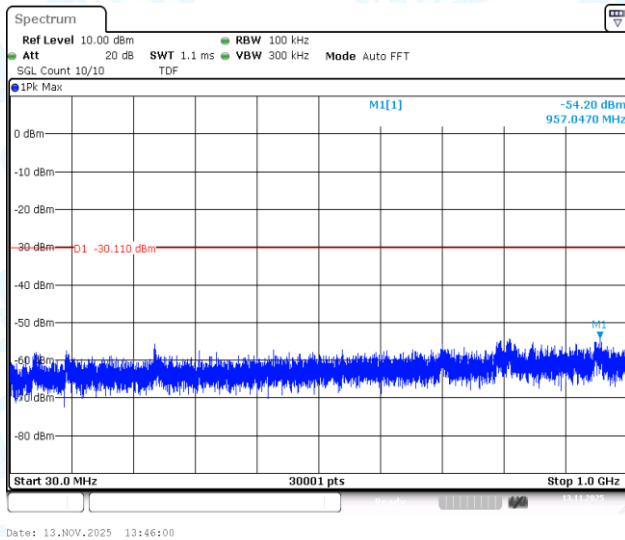
11G-Ant1-2437-0~Reference-PASS

11G-Ant1-2437-30~1000-PASS



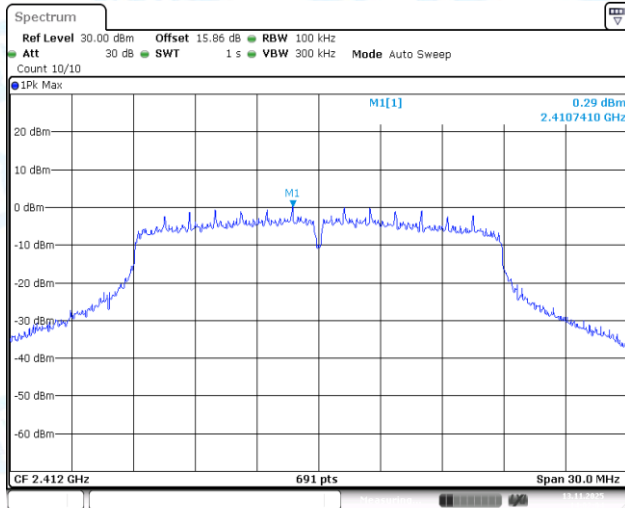
11G-Ant1-2437-1000~26500-PASS

11G-Ant1-2462-0~Reference-PASS

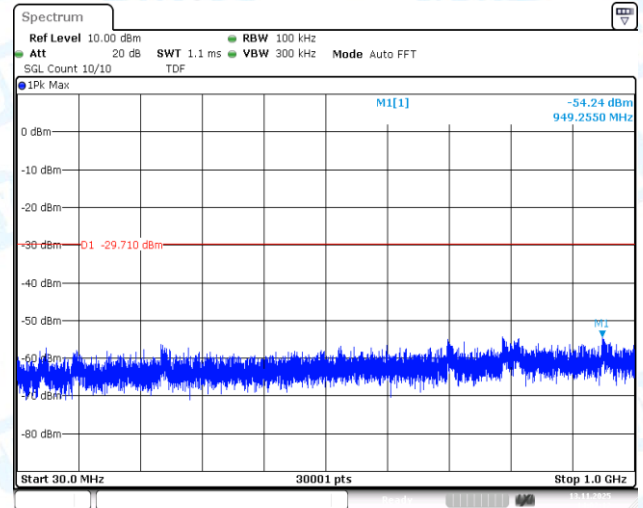


11G-Ant1-2462-30~1000-PASS

11G-Ant1-2462-1000~26500-PASS



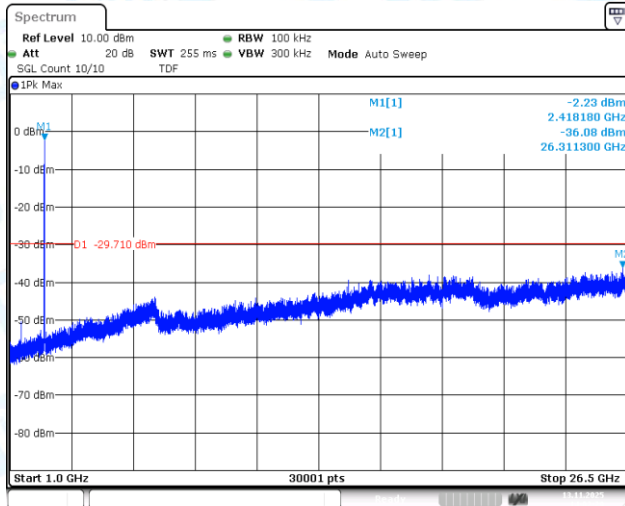
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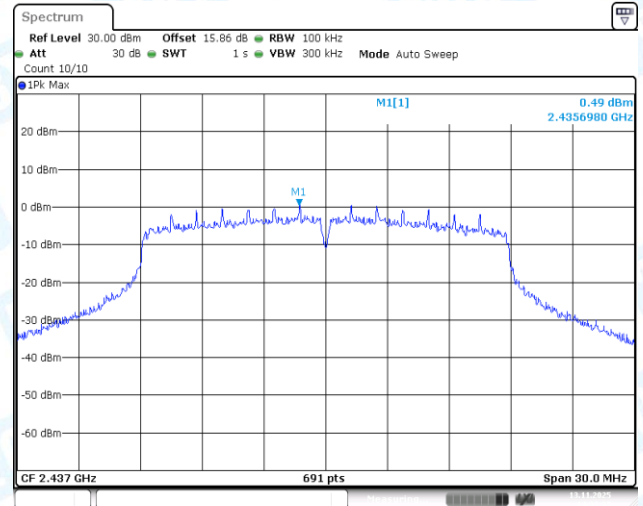
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11N20SISO-Ant1-2412-0~Reference-PASS

11N20SISO-Ant1-2412-30~1000-PASS



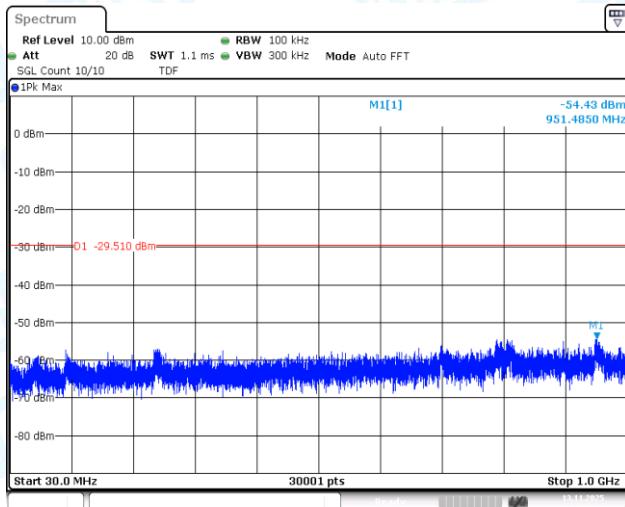
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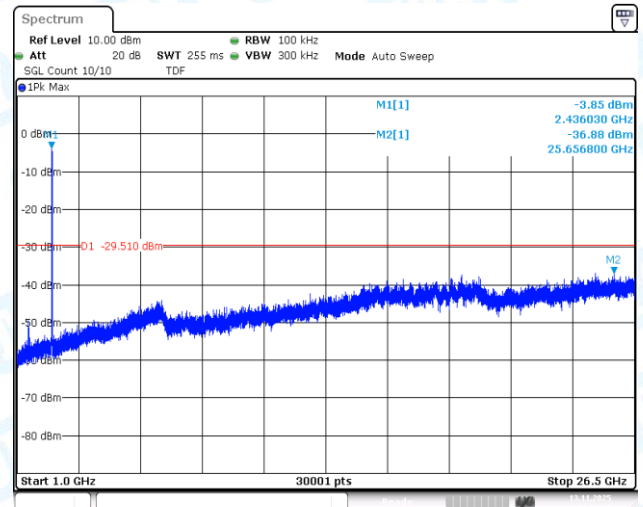
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11N20SISO-Ant1-2412-1000~26500-PASS

11N20SISO-Ant1-2437-0~Reference-PASS



Date: 13.NOV.2025 14:03:13



Date: 13.NOV.2025 14:03:30

11N20SISO-Ant1-2437-30~1000-PASS

11N20SISO-Ant1-2437-1000~26500-PASS