
FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BPRF-LPP-1-V1

Company : Shenzhen WestMicro Digital Technology Co., Ltd.

EUT : Link Power Pod 1

Model Number : LPP-1-V1

Report No. : CTA26042101302

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

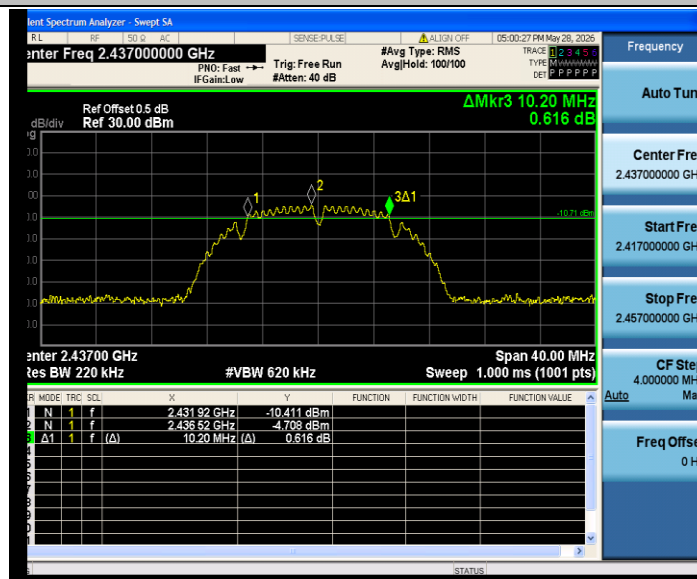
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.560	2404.320	2419.880	0.5	PASS
		2437	15.400	2429.440	2444.840	0.5	PASS
		2462	15.840	2454.080	2469.920	0.5	PASS
11N20SISO	Ant1	2412	16.760	2403.680	2420.440	0.5	PASS
		2437	16.920	2428.480	2445.400	0.5	PASS
		2462	16.520	2453.480	2470.000	0.5	PASS
11N40SISO	Ant1	2422	35.920	2404.080	2440.000	0.5	PASS
		2437	35.120	2419.560	2454.680	0.5	PASS
		2452	35.520	2434.480	2470.000	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



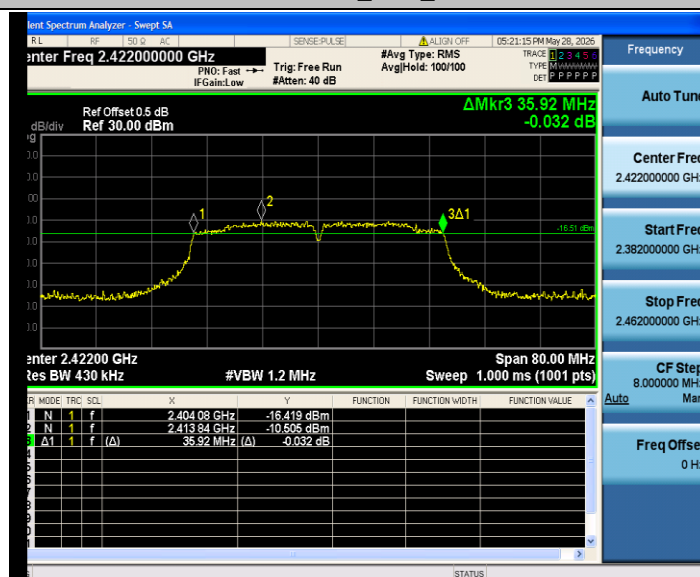
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



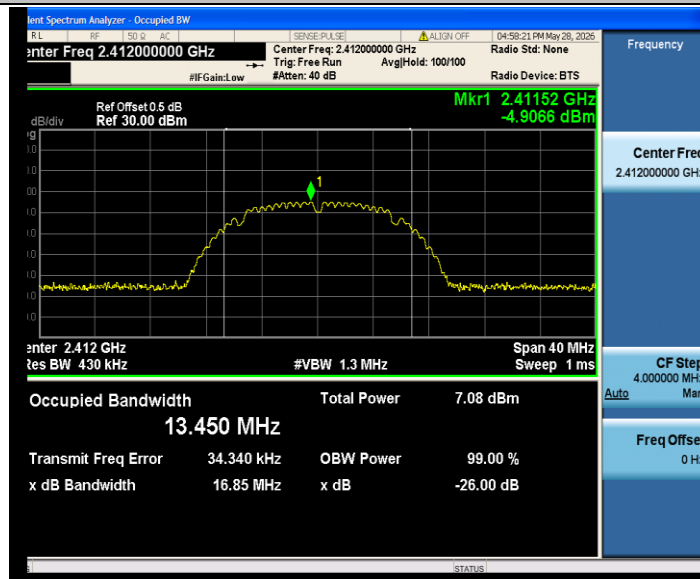
Appendix B: Occupied Channel Bandwidth

Test Result

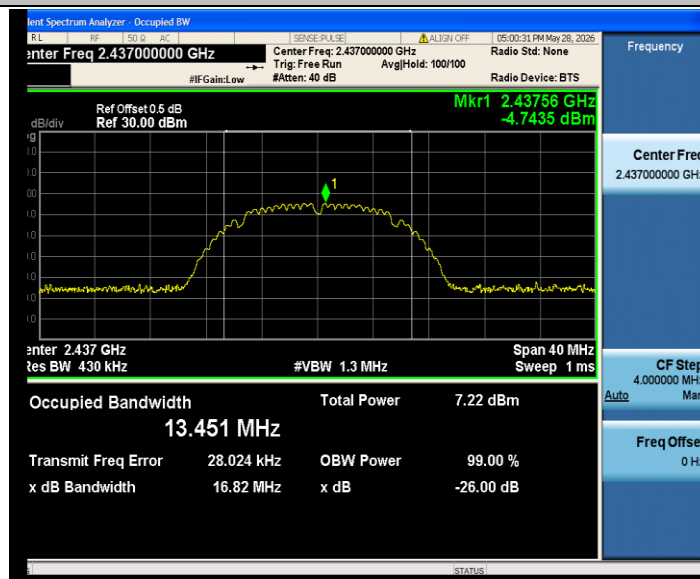
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.450	2405.3093	2418.7593	---	---
		2437	13.451	2430.3025	2443.7535	---	---
		2462	13.479	2455.2761	2468.7551	---	---
11G	Ant1	2412	16.864	2403.6172	2420.4812	---	---
		2437	16.887	2428.5856	2445.4726	---	---
		2462	16.925	2453.5900	2470.5150	---	---
11N20SISO	Ant1	2412	17.911	2403.0732	2420.9842	---	---
		2437	17.947	2428.0669	2446.0139	---	---
		2462	17.909	2453.0689	2470.9779	---	---
11N40SISO	Ant1	2422	36.104	2404.0802	2440.1842	---	---
		2437	36.101	2419.0864	2455.1874	---	---
		2452	36.093	2434.0862	2470.1792	---	---

Test Graphs

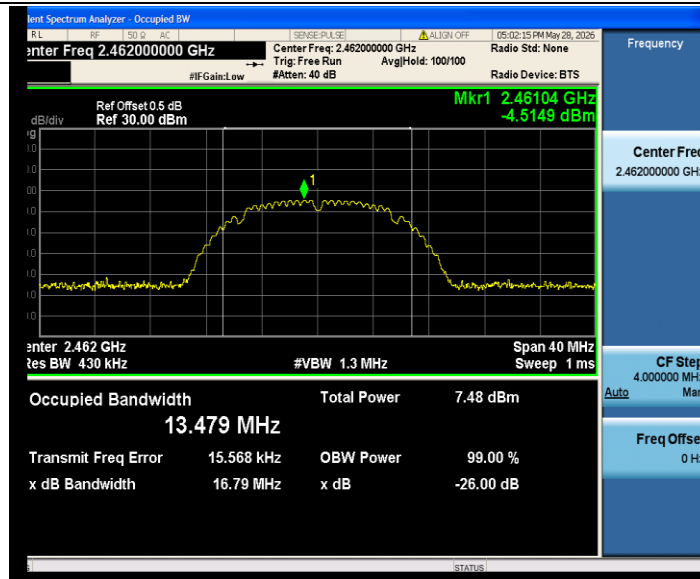
11B_Ant1_2412



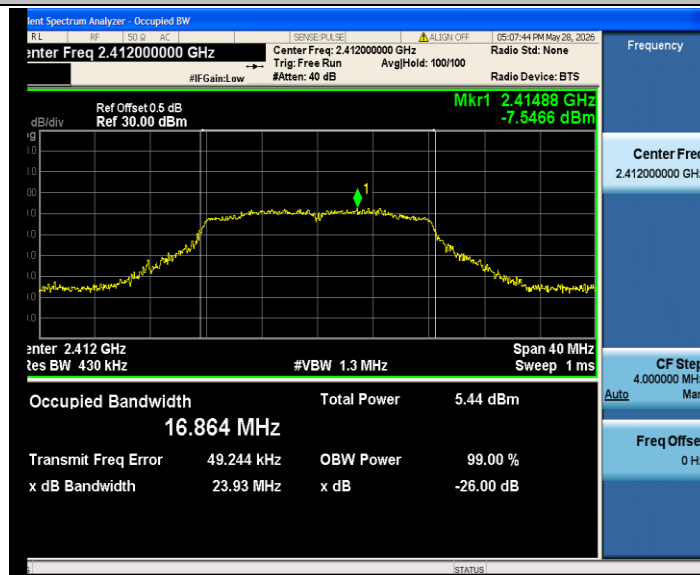
11B_Ant1_2437



11B_Ant1_2462



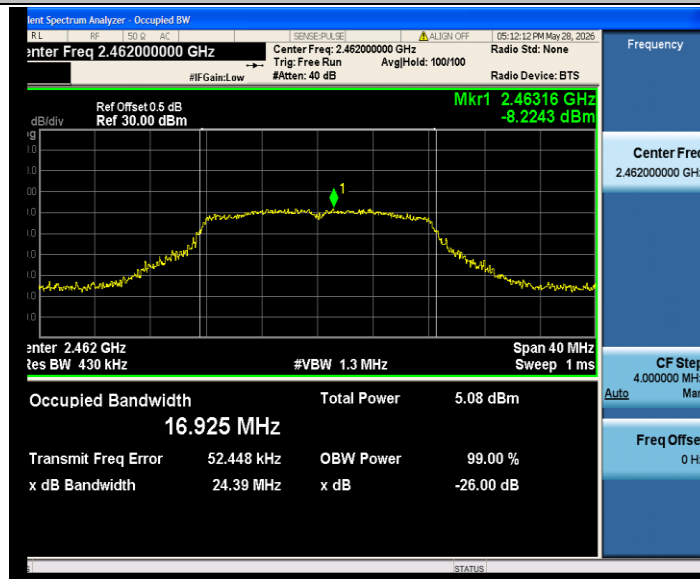
11G_Ant1_2412



11G_Ant1_2437



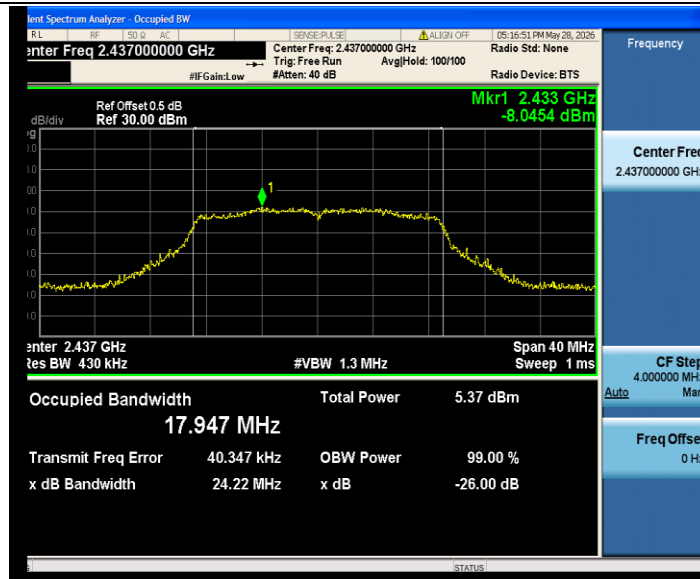
11G_Ant1_2462



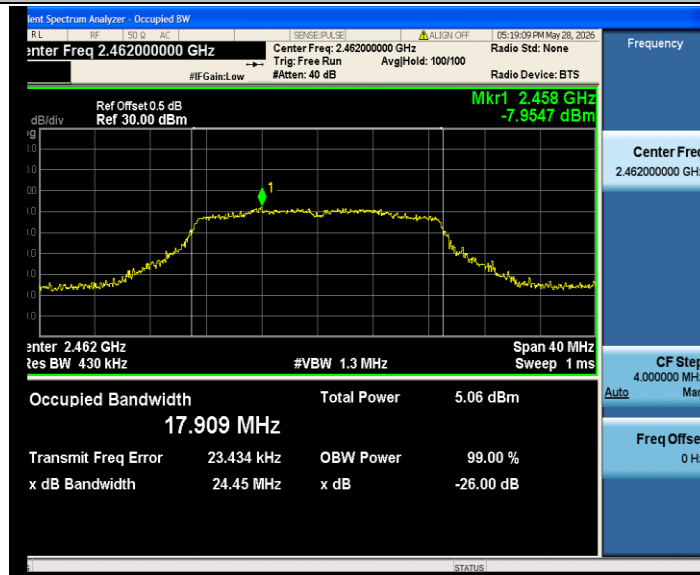
11N20SISO_Ant1_2412



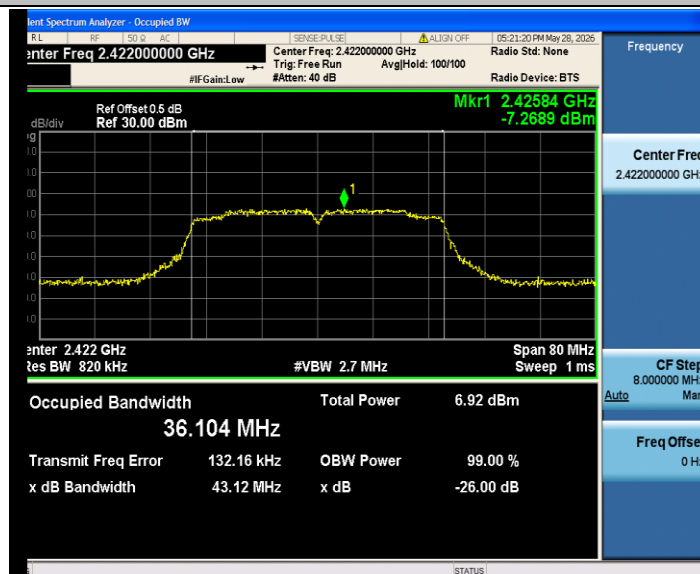
11N20SISO_Ant1_2437



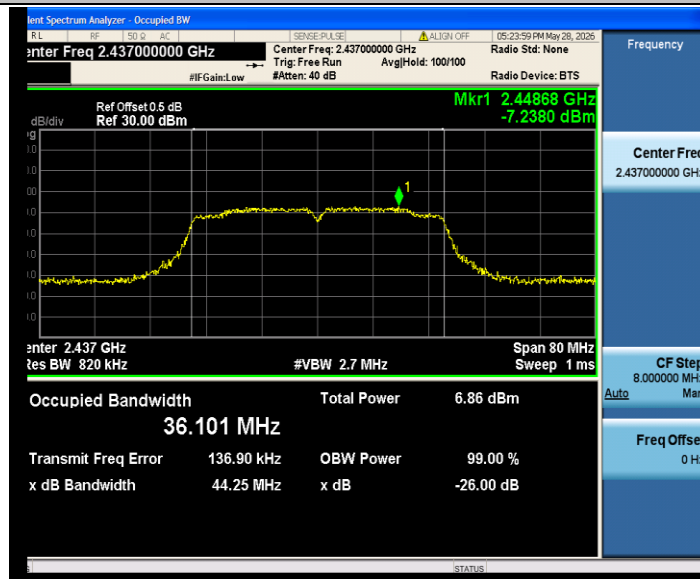
11N20SISO_Ant1_2462



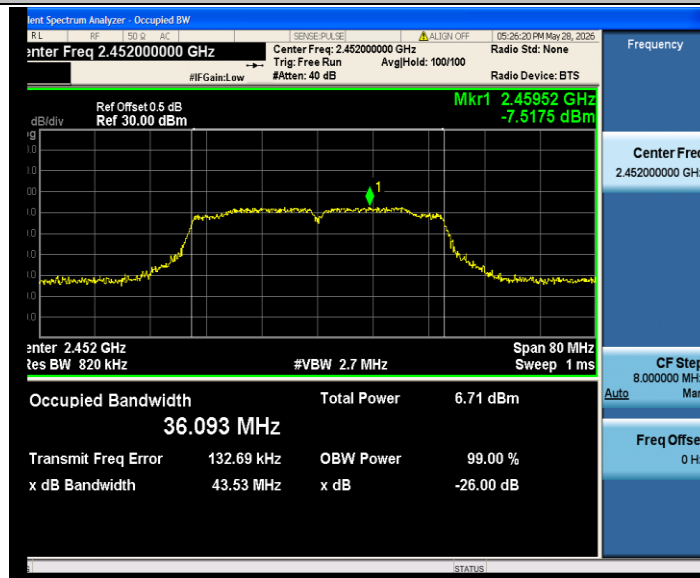
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	6.74	≤30.00	PASS
		2437	6.89	≤30.00	PASS
		2462	7.14	≤30.00	PASS
11G	Ant1	2412	6.36	≤30.00	PASS
		2437	6.33	≤30.00	PASS
		2462	6.07	≤30.00	PASS
11N20SISO	Ant1	2412	6.29	≤30.00	PASS
		2437	6.24	≤30.00	PASS
		2462	5.79	≤30.00	PASS
11N40SISO	Ant1	2422	7.16	≤30.00	PASS
		2437	6.97	≤30.00	PASS
		2452	6.85	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.40	≤8.00	PASS
		2437	-19.45	≤8.00	PASS
		2462	-18.90	≤8.00	PASS
11G	Ant1	2412	-25.37	≤8.00	PASS
		2437	-25.44	≤8.00	PASS
		2462	-25.51	≤8.00	PASS
11N20SISO	Ant1	2412	-23.69	≤8.00	PASS
		2437	-24.60	≤8.00	PASS
		2462	-25.60	≤8.00	PASS
11N40SISO	Ant1	2422	-27.70	≤8.00	PASS
		2437	-27.06	≤8.00	PASS
		2452	-26.96	≤8.00	PASS

Test Graphs

11B_Ant1_2412



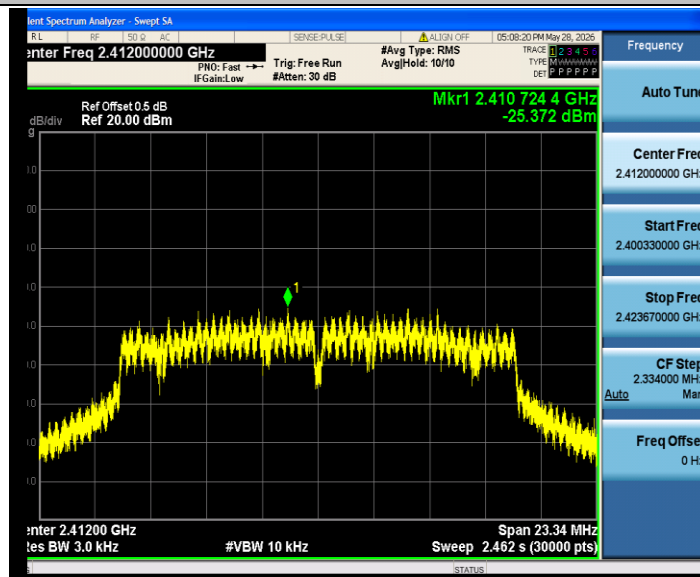
11B_Ant1_2437



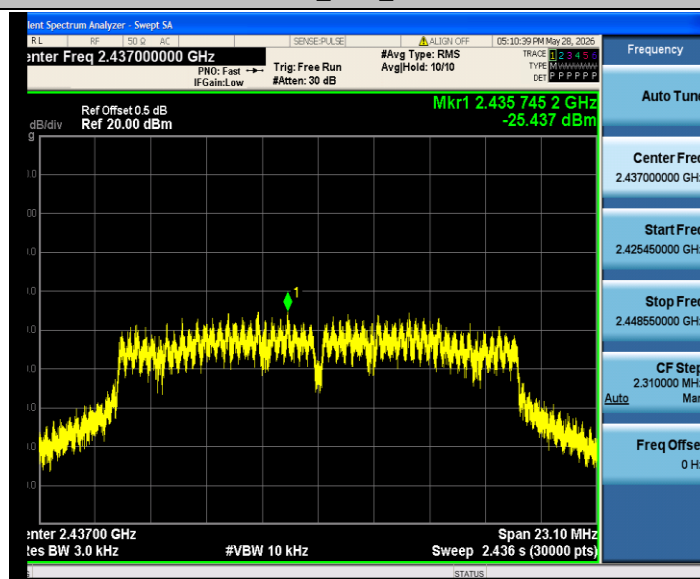
11B_Ant1_2462



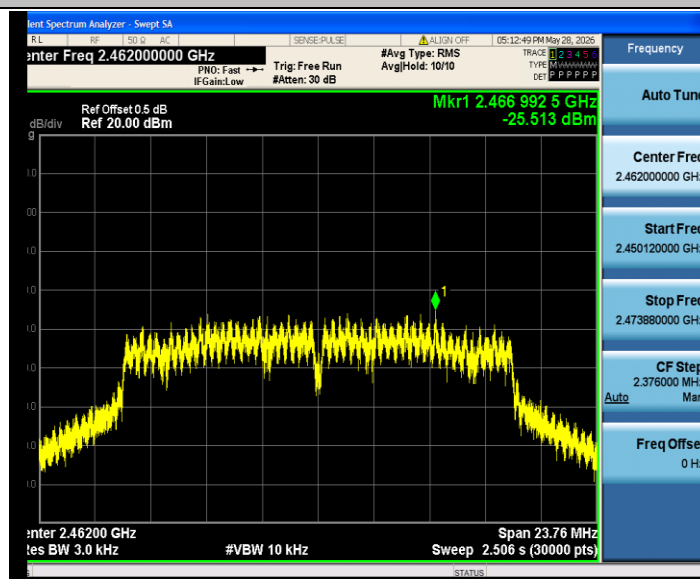
11G_Ant1_2412



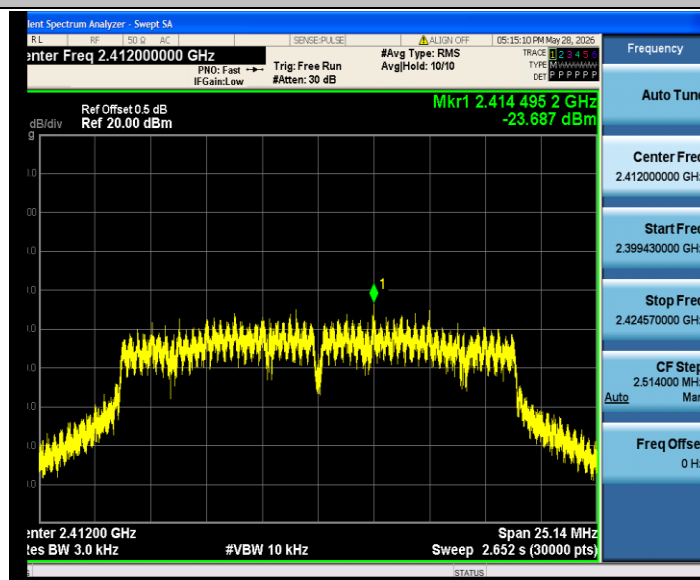
11G_Ant1_2437



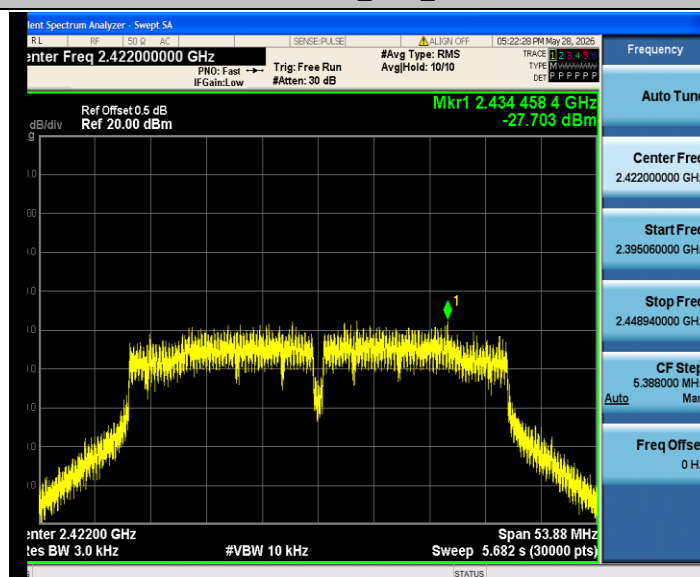
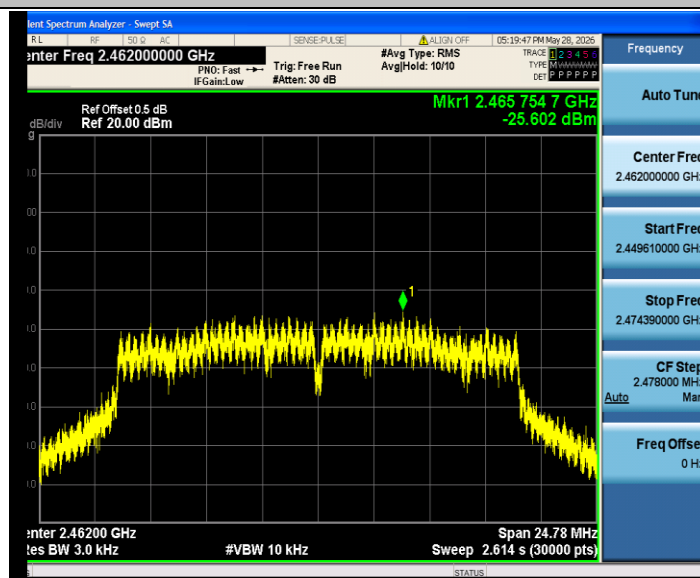
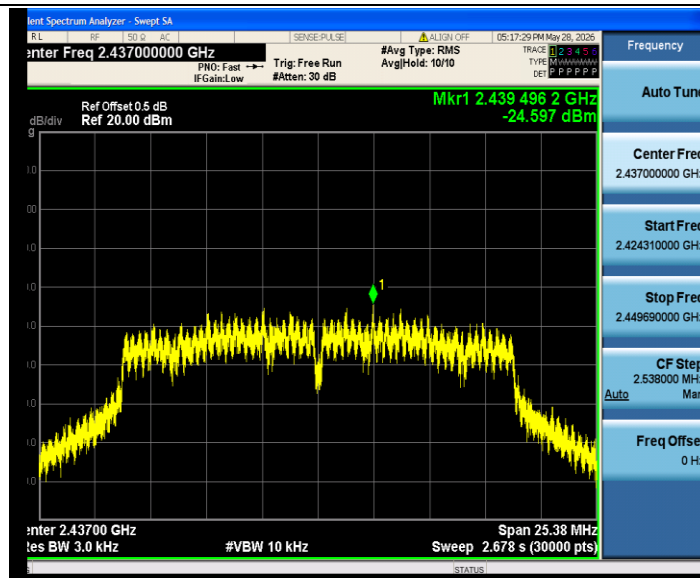
11G_Ant1_2462



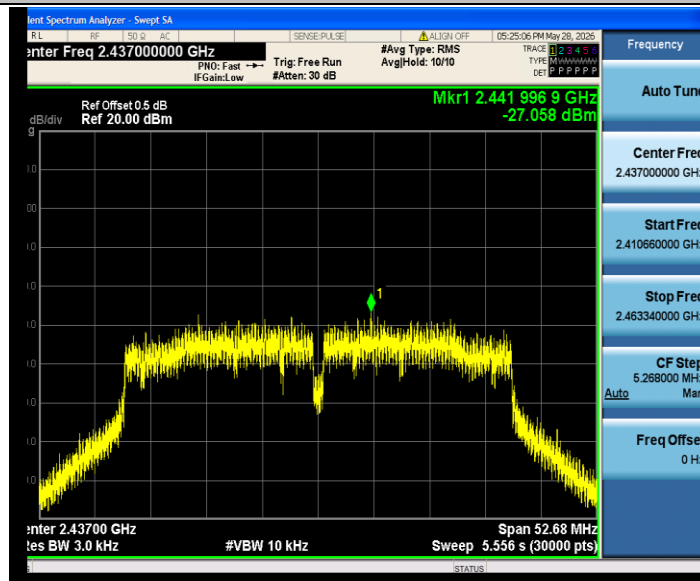
11N20SISO_Ant1_2412



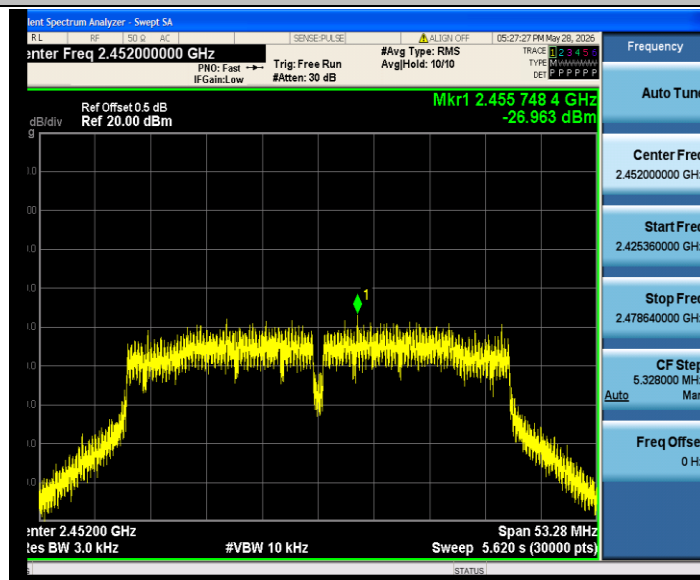
11N20SISO_Ant1_2437



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



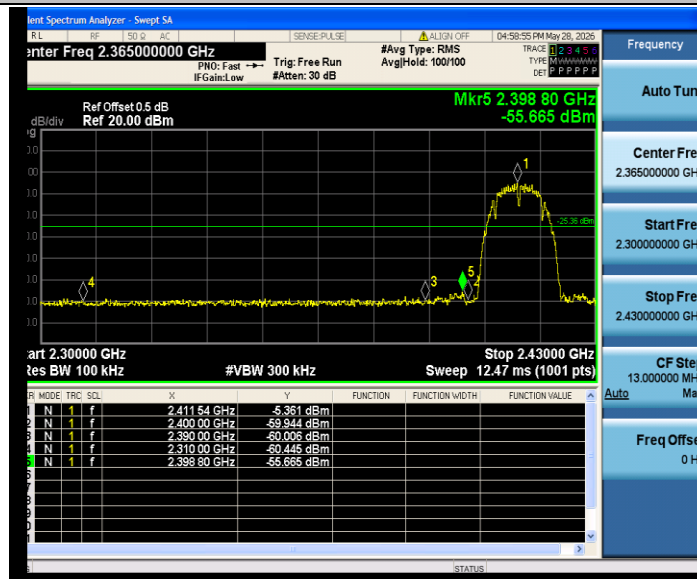
Appendix E: Band edge measurements

Test Result

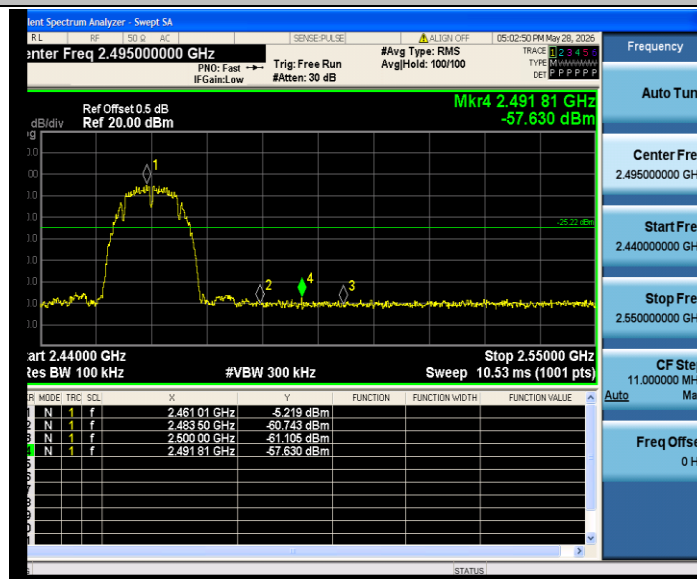
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.36	-55.67	≤-25.36	PASS
		High	2462	-5.22	-57.63	≤-25.22	PASS
11G	Ant1	Low	2412	-10.04	-42.14	≤-30.04	PASS
		High	2462	-10.36	-57.29	≤-30.36	PASS
11N20SISO	Ant1	Low	2412	-10.05	-41.11	≤-30.05	PASS
		High	2462	-10.51	-57.56	≤-30.51	PASS
11N40SISO	Ant1	Low	2422	-12.91	-40.21	≤-32.91	PASS
		High	2452	-13.18	-57.39	≤-33.18	PASS

Test Graphs

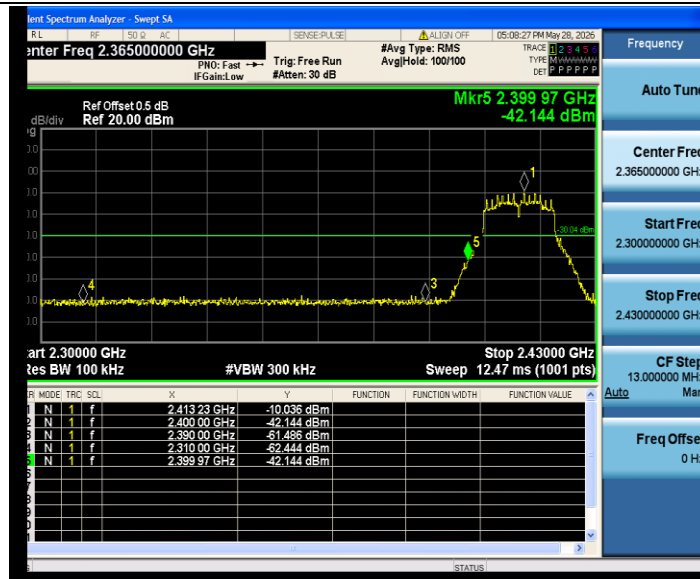
11B_Ant1_Low_2412



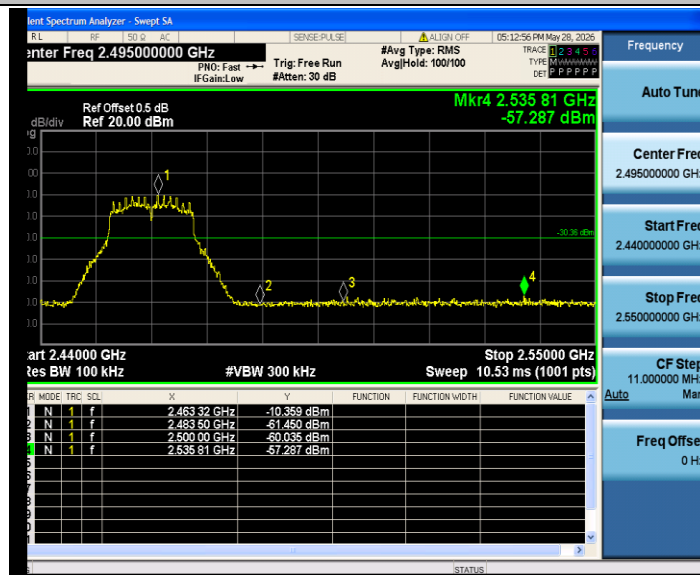
11B_Ant1_High_2462



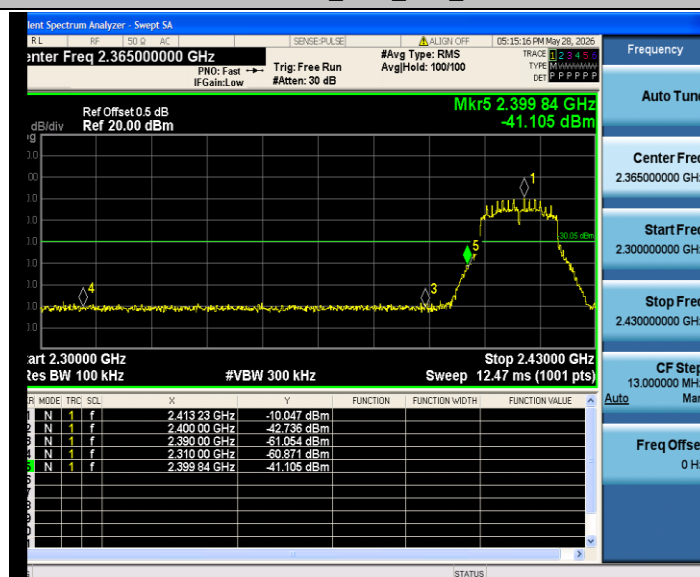
11G_Ant1_Low_2412



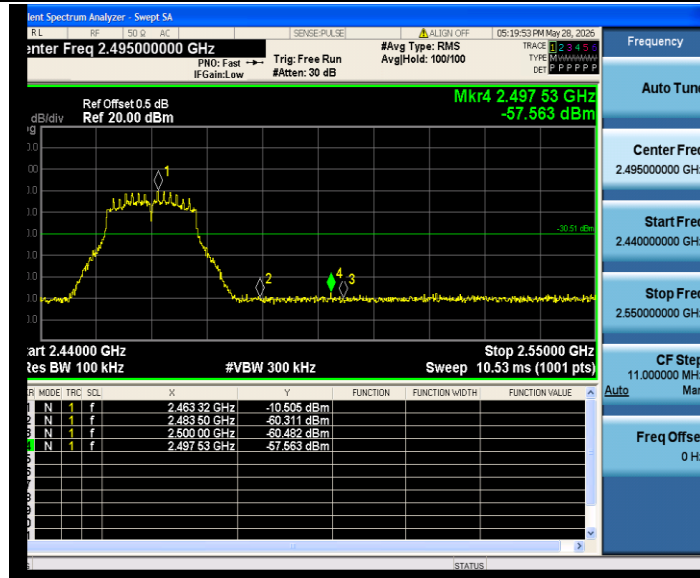
11G_Ant1_High_2462



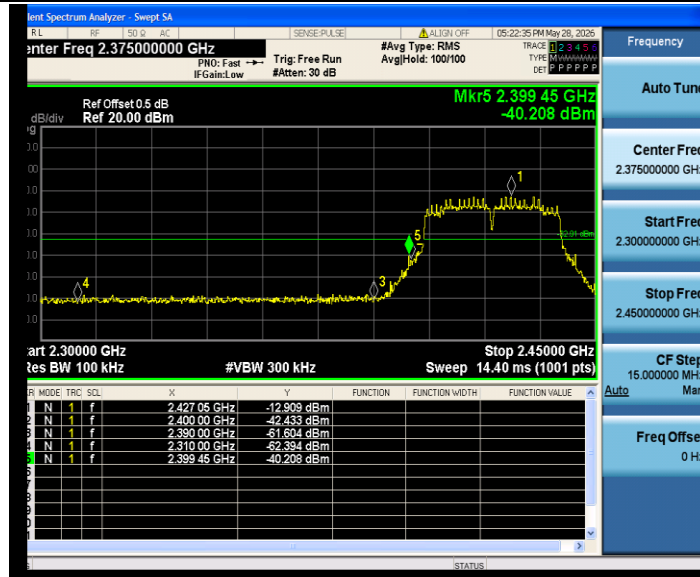
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



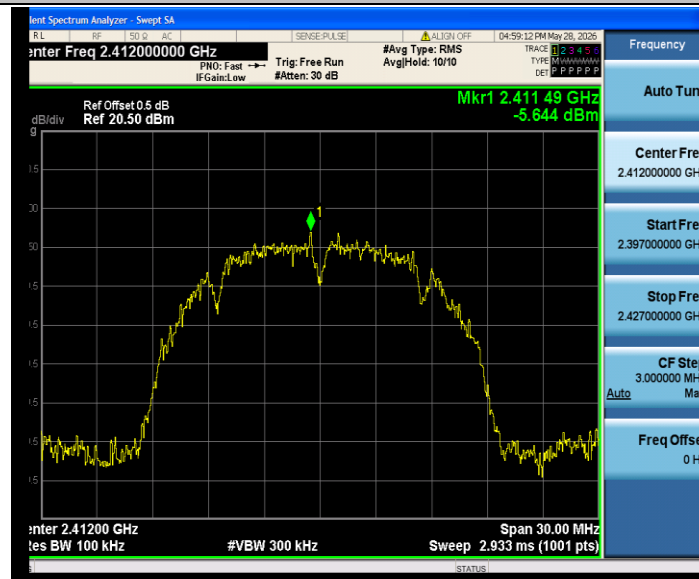
Appendix F: Conducted Spurious Emission

Test Result

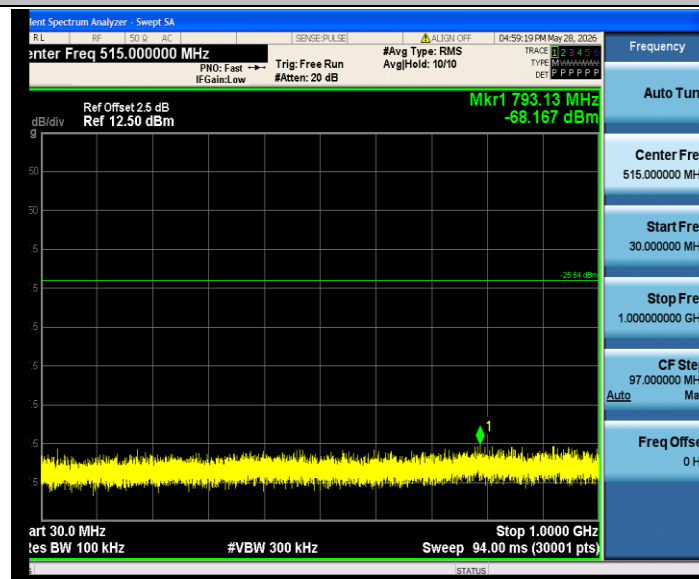
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.64	-5.64	---	PASS
			30~1000	-5.64	-68.17	≤-25.64	PASS
			1000~26500	-5.64	-54.72	≤-25.64	PASS
		2437	Reference	-6.16	-6.16	---	PASS
			30~1000	-6.16	-68.11	≤-26.16	PASS
			1000~26500	-6.16	-54.54	≤-26.16	PASS
		2462	Reference	-6.25	-6.25	---	PASS
			30~1000	-6.25	-68.04	≤-26.25	PASS
			1000~26500	-6.25	-54.77	≤-26.25	PASS
11G	Ant1	2412	Reference	-10.35	-10.35	---	PASS
			30~1000	-10.35	-68.5	≤-30.35	PASS
			1000~26500	-10.35	-54.53	≤-30.35	PASS
		2437	Reference	-10.33	-10.33	---	PASS
			30~1000	-10.33	-68.32	≤-30.33	PASS
			1000~26500	-10.33	-55.28	≤-30.33	PASS
		2462	Reference	-11.11	-11.11	---	PASS
			30~1000	-11.11	-68.14	≤-31.11	PASS
			1000~26500	-11.11	-55.79	≤-31.11	PASS
11N20SISO	Ant1	2412	Reference	-10.15	-10.15	---	PASS
			30~1000	-10.15	-68.05	≤-30.15	PASS
			1000~26500	-10.15	-54.9	≤-30.15	PASS
		2437	Reference	-10.49	-10.49	---	PASS
			30~1000	-10.49	-67.64	≤-30.49	PASS
			1000~26500	-10.49	-55.31	≤-30.49	PASS
		2462	Reference	-11.42	-11.42	---	PASS
			30~1000	-11.42	-68.15	≤-31.42	PASS
			1000~26500	-11.42	-55.19	≤-31.42	PASS
11N40SISO	Ant1	2422	Reference	-13.82	-13.82	---	PASS
			30~1000	-13.82	-67.99	≤-33.82	PASS
			1000~26500	-13.82	-55.18	≤-33.82	PASS
		2437	Reference	-13.07	-13.07	---	PASS
			30~1000	-13.07	-67.84	≤-33.07	PASS
			1000~26500	-13.07	-55.2	≤-33.07	PASS
		2452	Reference	-13.28	-13.28	---	PASS
			30~1000	-13.28	-68.09	≤-33.28	PASS
			1000~26500	-13.28	-55.29	≤-33.28	PASS

Test Graphs

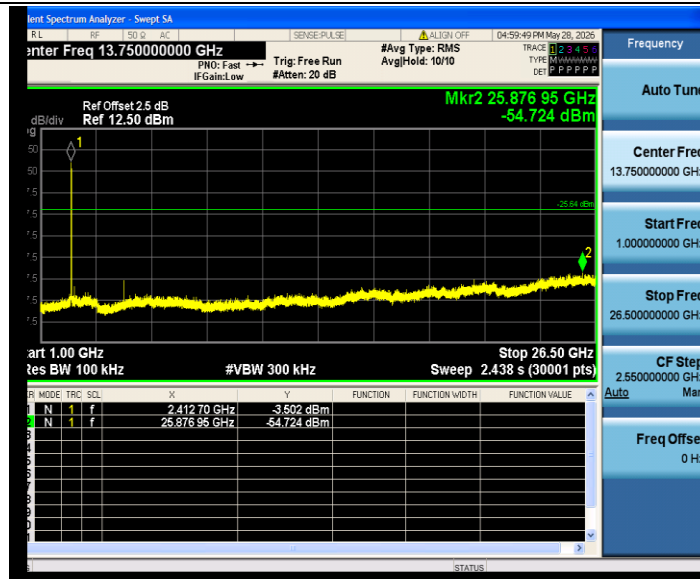
11B_Ant1_2412_0~Reference



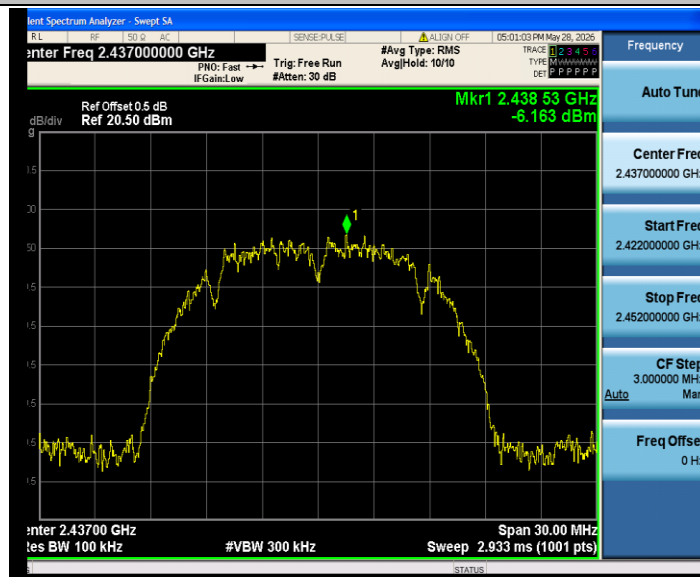
11B_Ant1_2412_30~1000



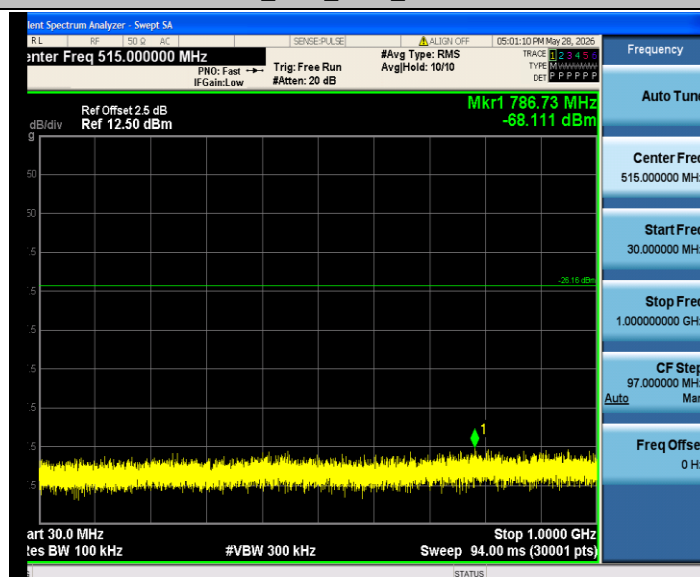
11B_Ant1_2412_1000~26500



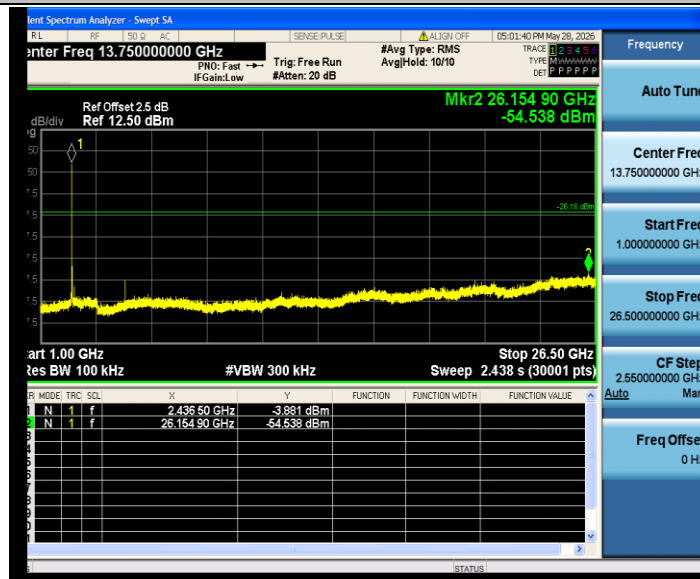
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



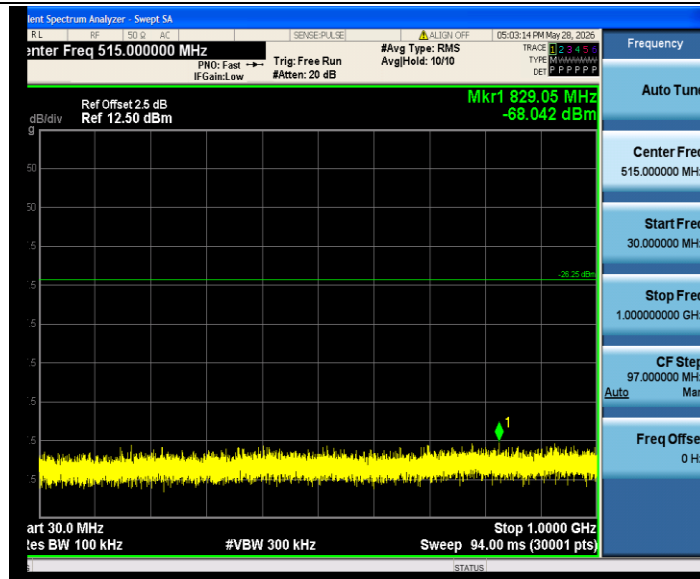
11B_Ant1_2437_1000~26500



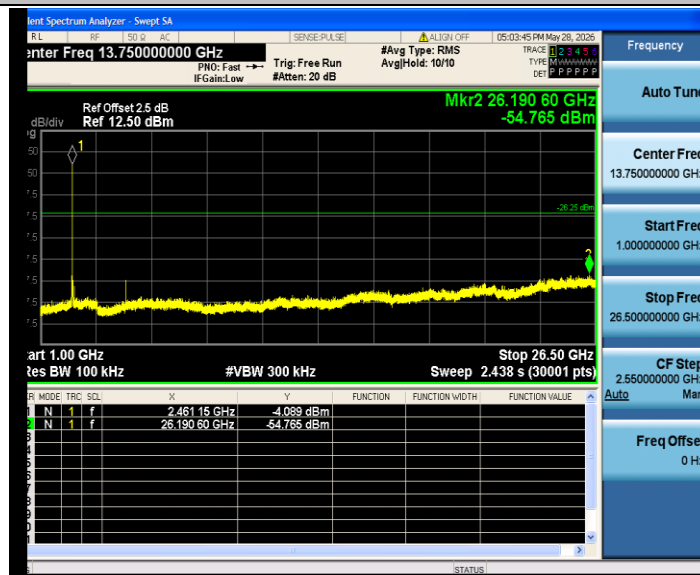
11B_Ant1_2462_0~Reference



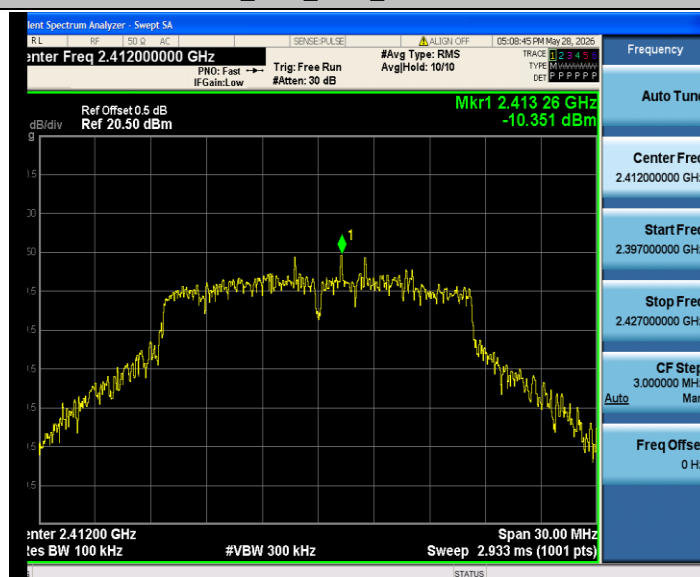
11B_Ant1_2462_30~1000



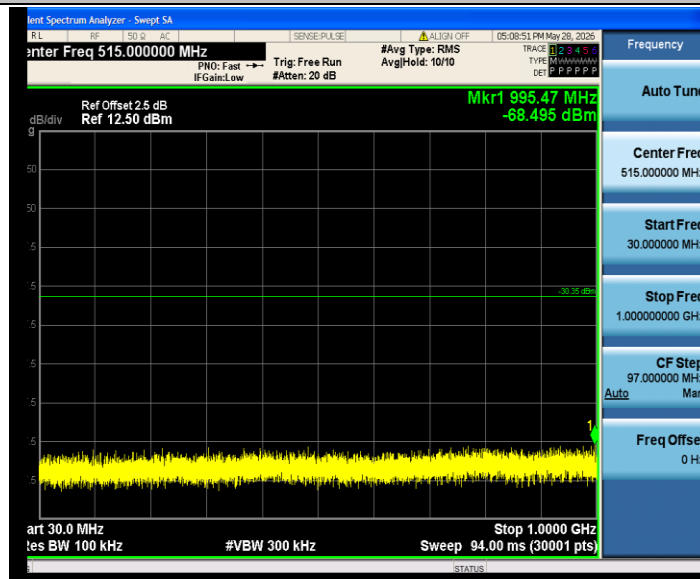
11B_Ant1_2462_1000~26500



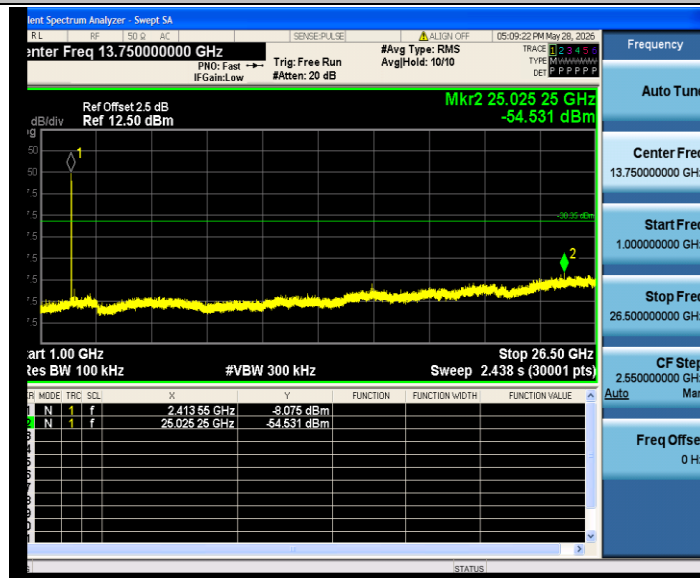
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



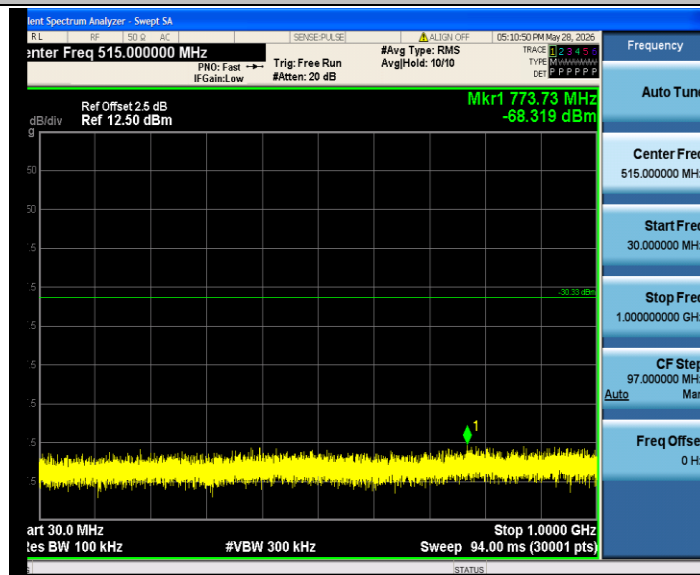
11G_Ant1_2412_1000~26500



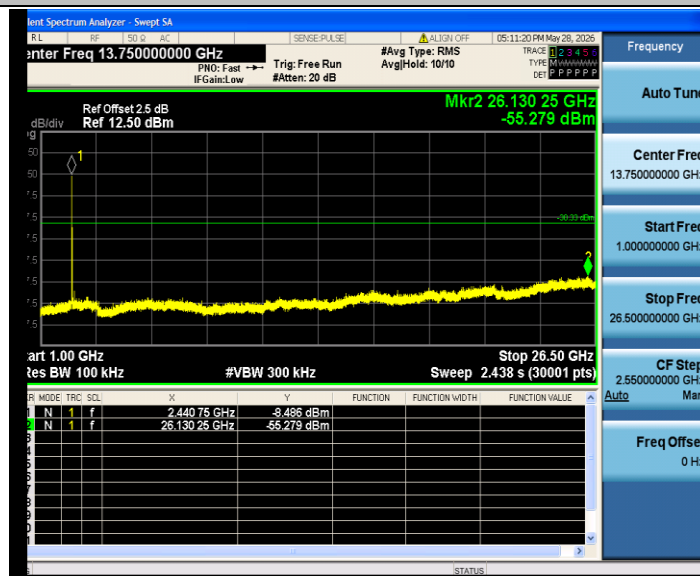
11G_Ant1_2437_0~Reference



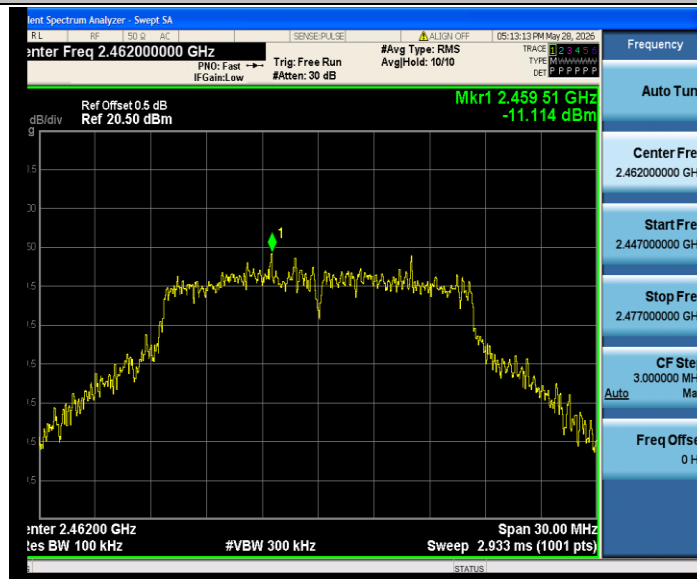
11G_Ant1_2437_30~1000



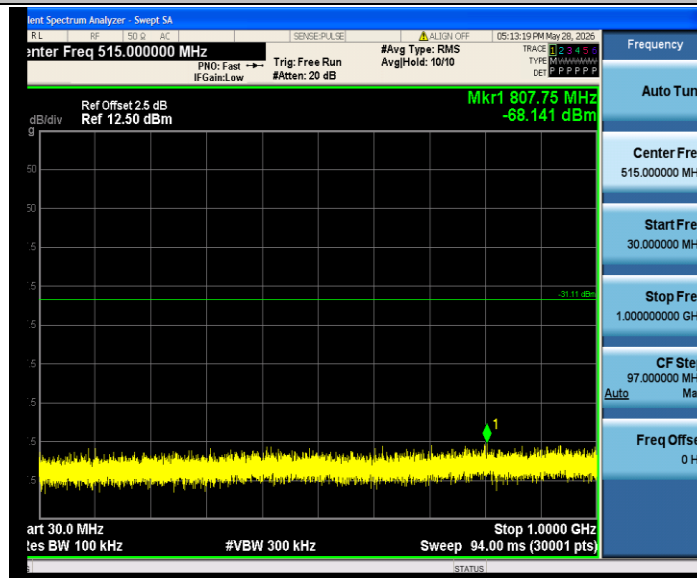
11G_Ant1_2437_1000~26500



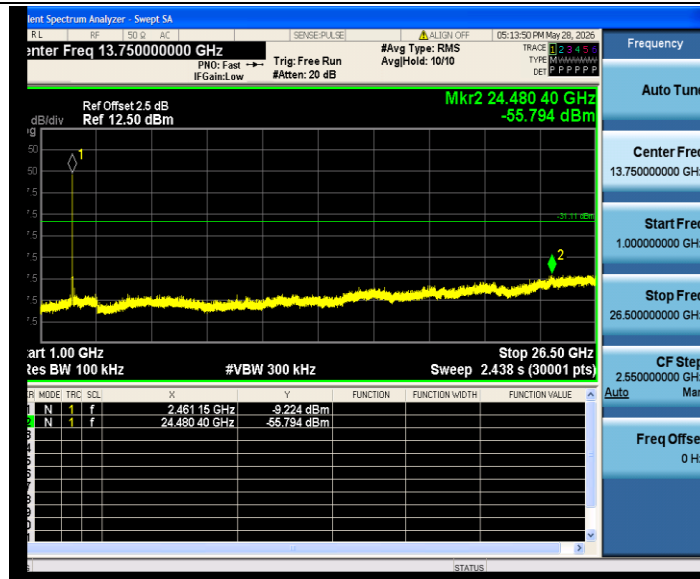
11G_Ant1_2462_0~Reference



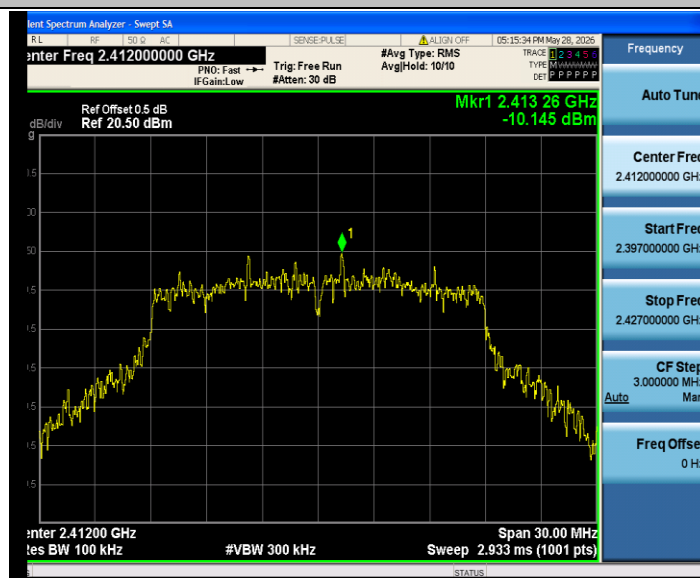
11G_Ant1_2462_30~1000



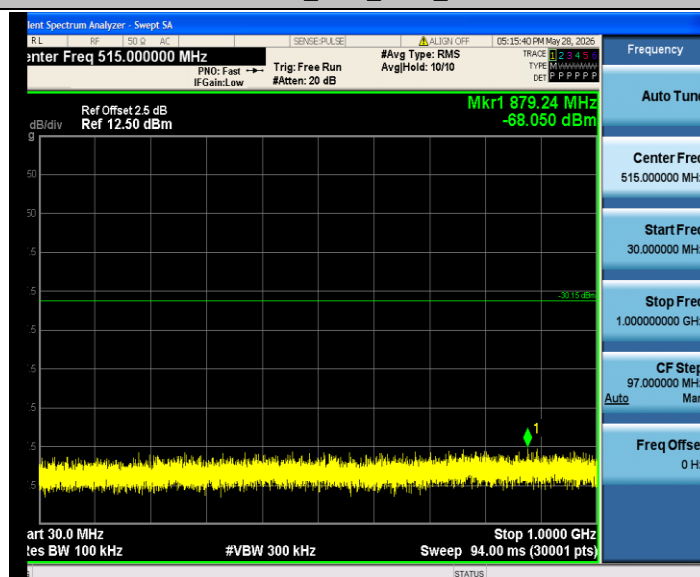
11G_Ant1_2462_1000~26500



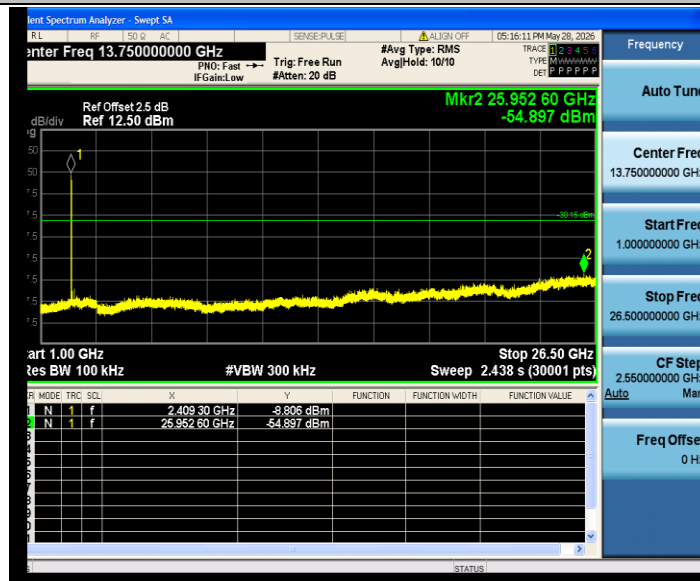
11N20SISO_Ant1_2412_0~Reference



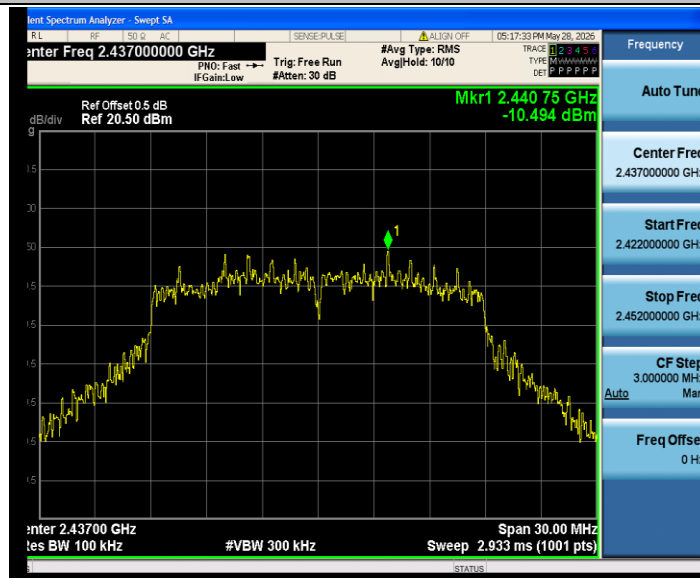
11N20SISO_Ant1_2412_30~1000



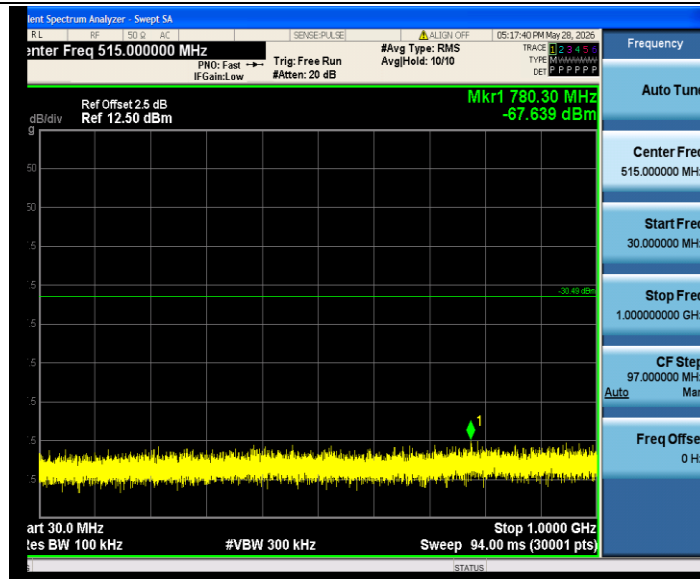
11N20SISO_Ant1_2412_1000~26500



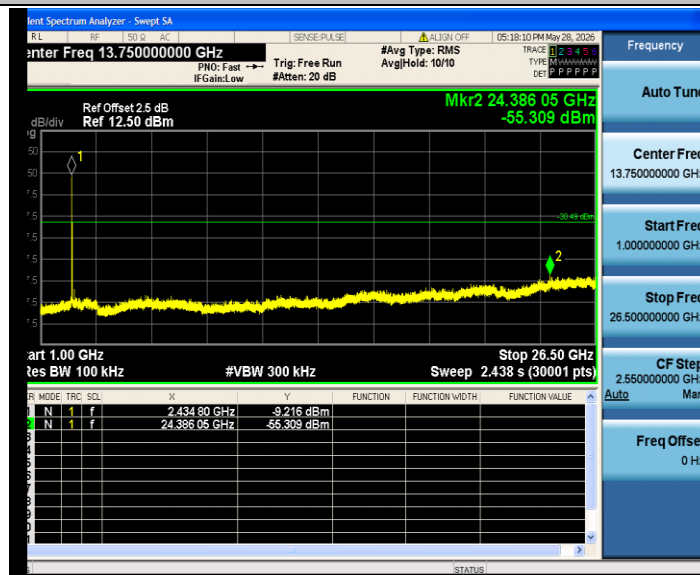
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

