

FCC Appendix RF Test Data for 2.4GWIFI

Company: : Neckog Industries LLC (USA)

EUT : Flovv

Model Number : RIM-01

FCC ID : 2BS7Y-RIM-01

Report No. : CTA25091201702

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	8.720	2407.920	2416.640	0.5	PASS
		2437	9.080	2432.480	2441.560	0.5	PASS
		2462	9.200	2457.440	2466.640	0.5	PASS
11G	Ant1	2412	16.000	2404.200	2420.200	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.440	2453.840	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.520	2420.760	0.5	PASS
		2437	17.120	2428.440	2445.560	0.5	PASS
		2462	17.360	2453.280	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.200	2404.800	2440.000	0.5	PASS
		2437	34.960	2419.080	2454.040	0.5	PASS
		2452	36.000	2434.000	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



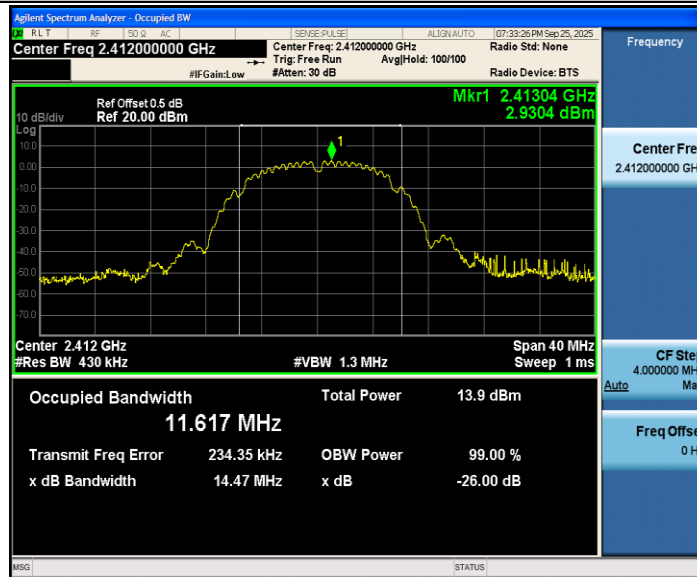
Appendix B: Occupied Channel Bandwidth

Test Result

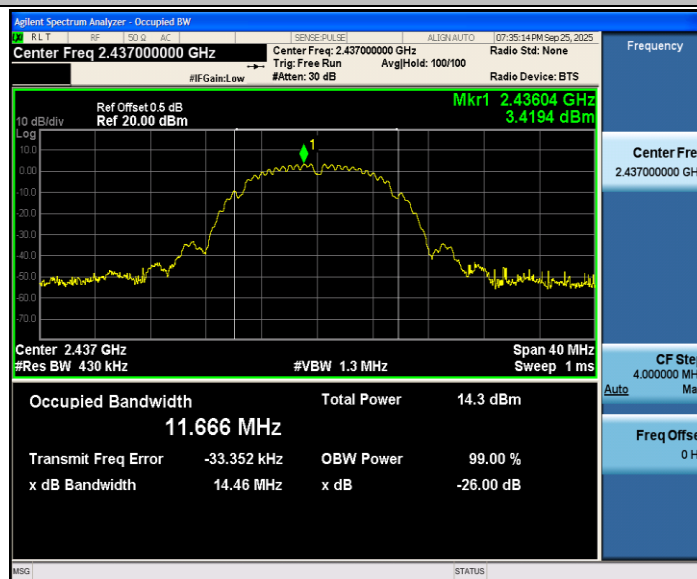
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.617	2406.4259	2418.0429	---	---
		2437	11.666	2431.1337	2442.7997	---	---
		2462	11.840	2456.1350	2467.9750	---	---
11G	Ant1	2412	16.652	2403.7950	2420.4470	---	---
		2437	16.667	2428.6996	2445.3666	---	---
		2462	16.763	2453.6907	2470.4537	---	---
11N20SISO	Ant1	2412	17.626	2403.3225	2420.9485	---	---
		2437	17.593	2428.2258	2445.8188	---	---
		2462	17.679	2453.2142	2470.8932	---	---
11N40SISO	Ant1	2422	36.054	2404.2090	2440.2630	---	---
		2437	36.142	2418.9335	2455.0755	---	---
		2452	36.385	2433.8004	2470.1854	---	---

Test Graphs

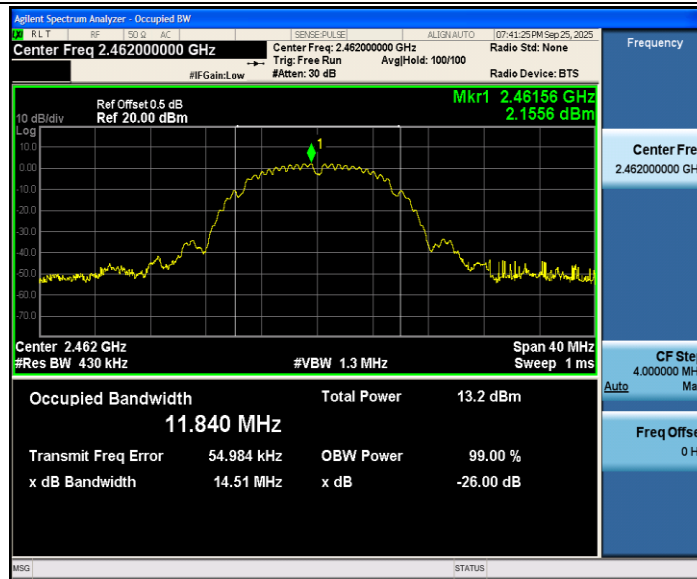
11B_Ant1_2412



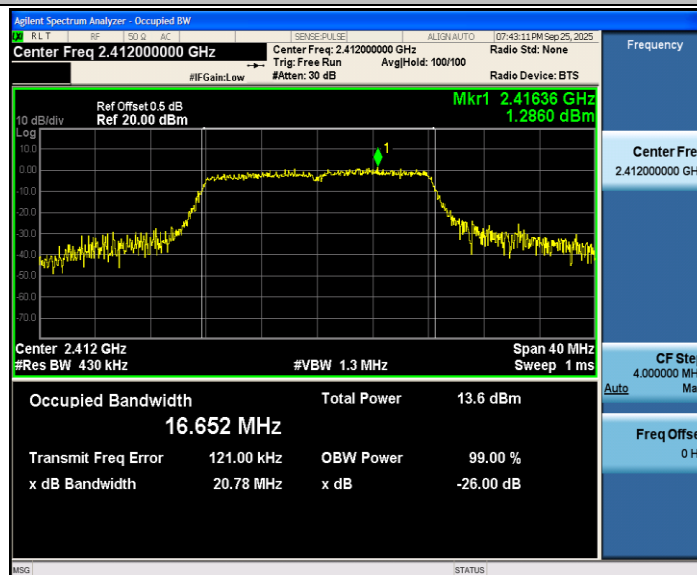
11B_Ant1_2437



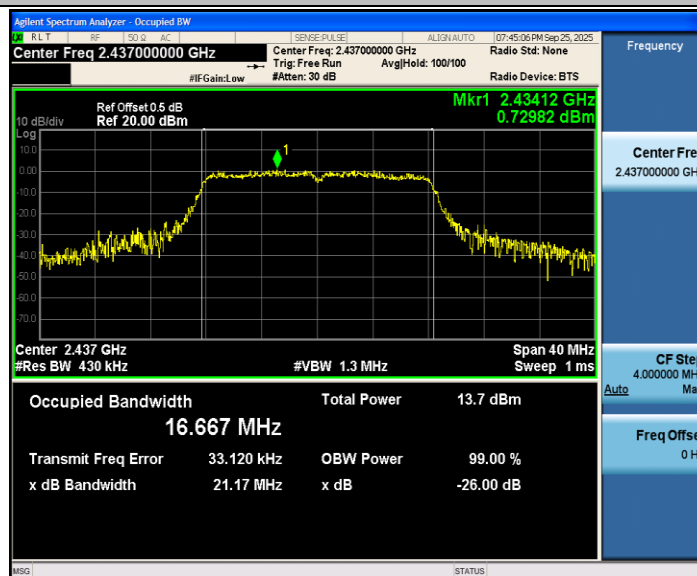
11B_Ant1_2462



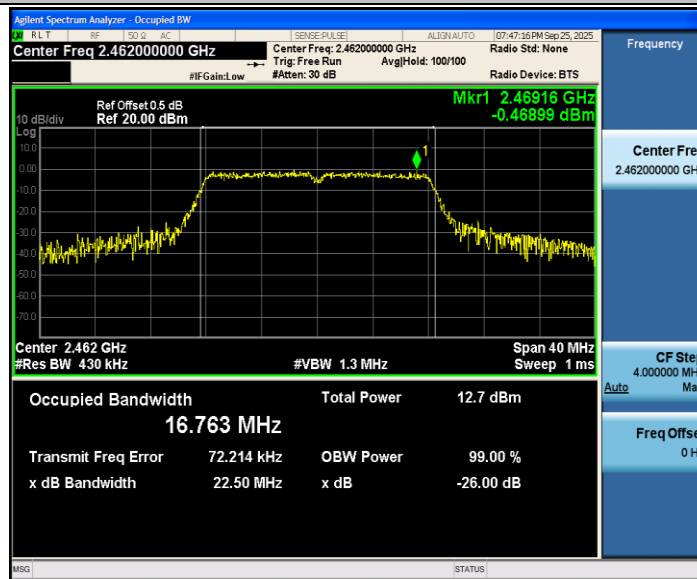
11G_Ant1_2412



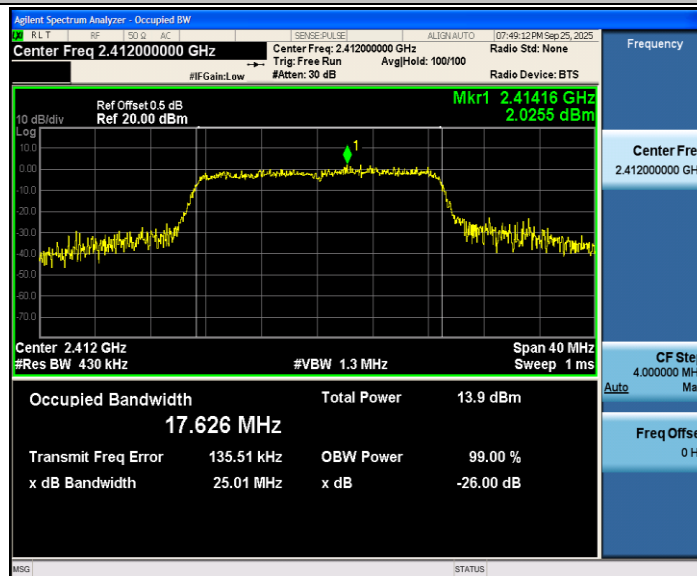
11G_Ant1_2437



11G_Ant1_2462



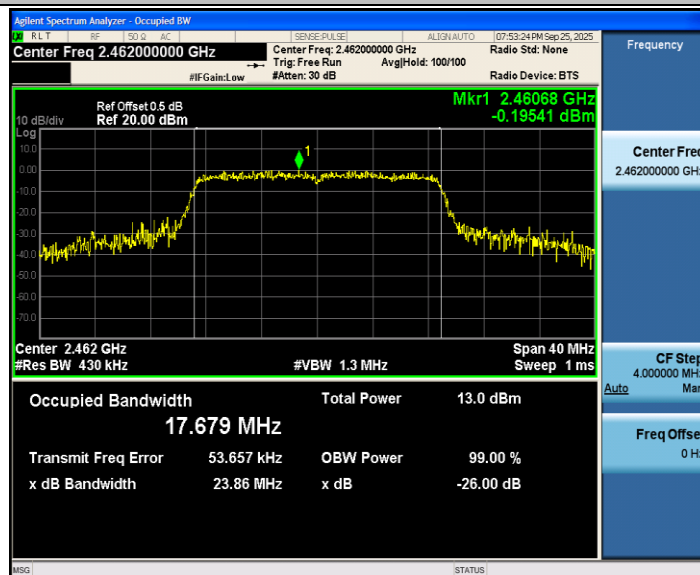
11N20SISO_Ant1_2412



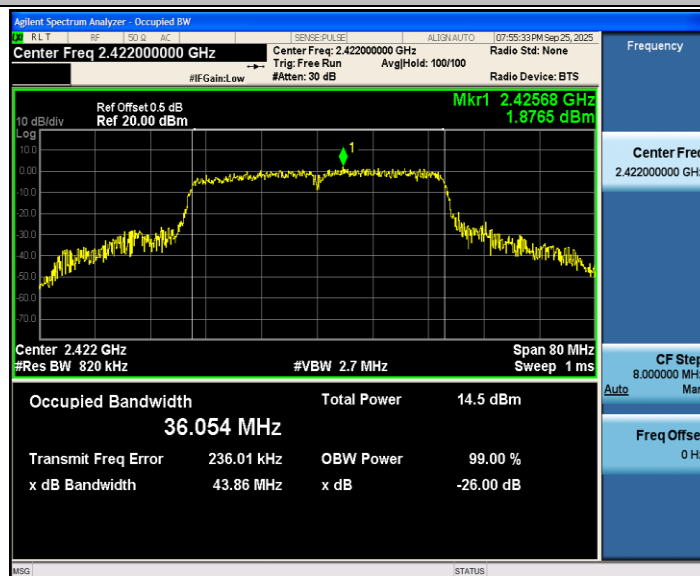
11N20SISO_Ant1_2437



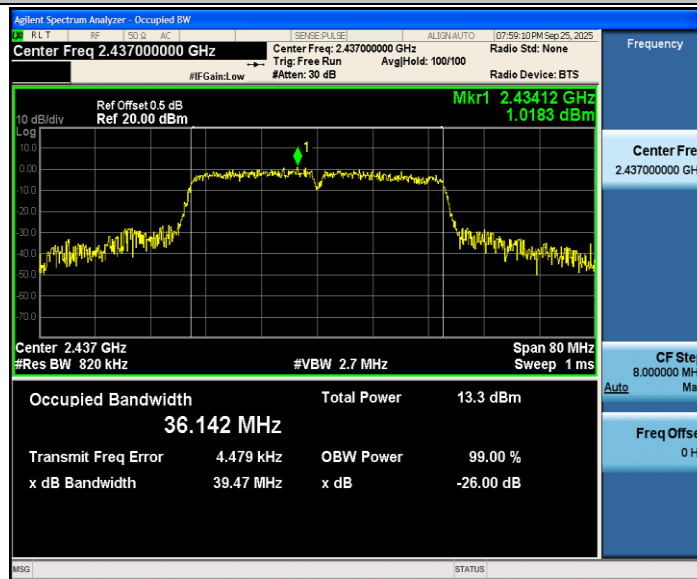
11N20SISO_Ant1_2462



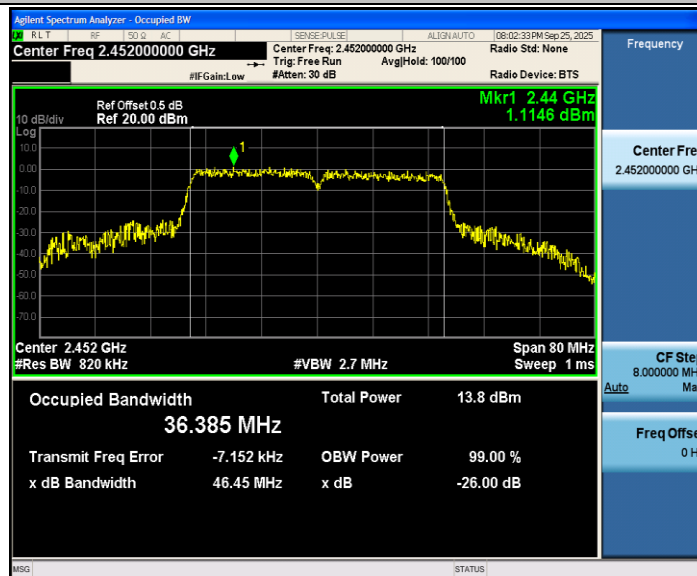
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Maximum Peak conducted output power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.73	≤30.00	PASS
		2437	14.21	≤30.00	PASS
		2462	13.08	≤30.00	PASS
11G	Ant1	2412	14.31	≤30.00	PASS
		2437	14.51	≤30.00	PASS
		2462	13.45	≤30.00	PASS
11N20SISO	Ant1	2412	14.61	≤30.00	PASS
		2437	14.70	≤30.00	PASS
		2462	13.76	≤30.00	PASS
11N40SISO	Ant1	2422	14.70	≤30.00	PASS
		2437	13.28	≤30.00	PASS
		2452	13.93	≤30.00	PASS

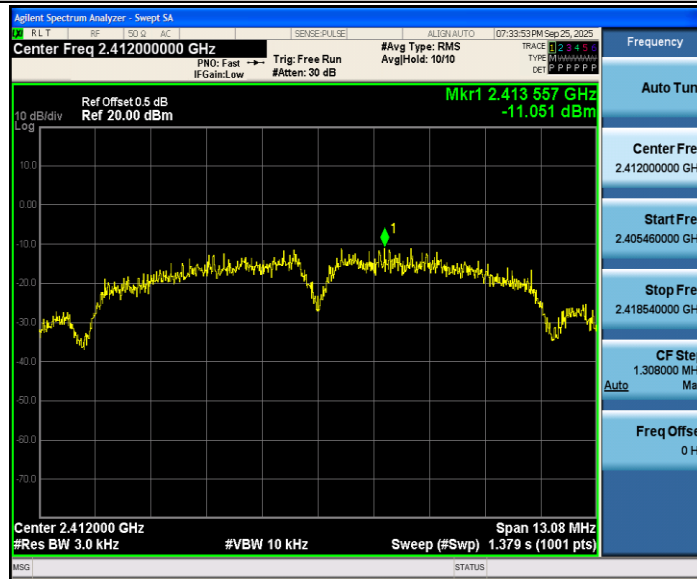
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.05	≤8.00	PASS
		2437	-10.72	≤8.00	PASS
		2462	-12.31	≤8.00	PASS
11G	Ant1	2412	-16.68	≤8.00	PASS
		2437	-16.97	≤8.00	PASS
		2462	-18.53	≤8.00	PASS
11N20SISO	Ant1	2412	-17.37	≤8.00	PASS
		2437	-17.89	≤8.00	PASS
		2462	-18.59	≤8.00	PASS
11N40SISO	Ant1	2422	-19.38	≤8.00	PASS
		2437	-20.61	≤8.00	PASS
		2452	-20.02	≤8.00	PASS

Test Graphs

11B_Ant1_2412



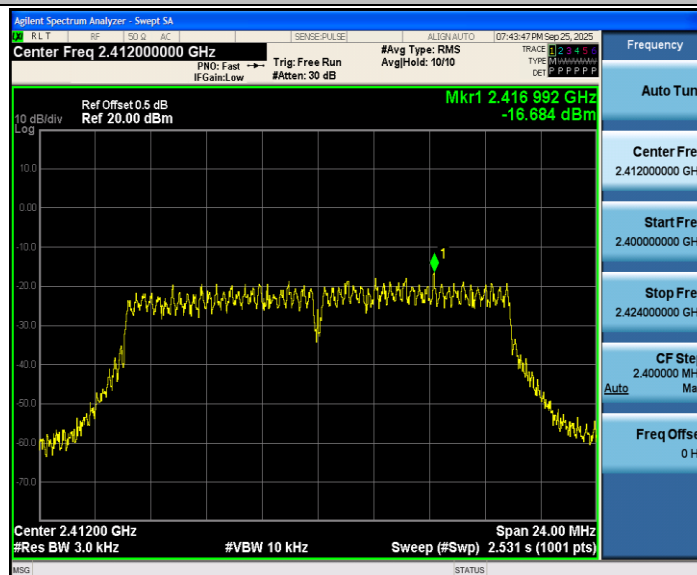
11B_Ant1_2437



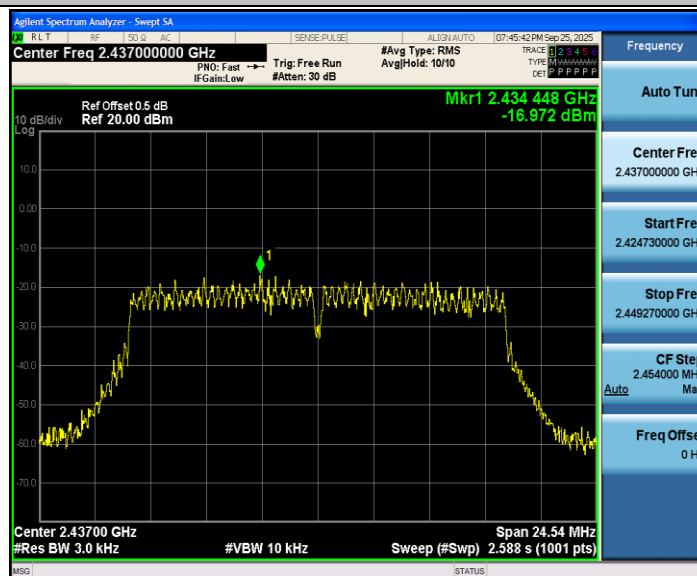
11B_Ant1_2462



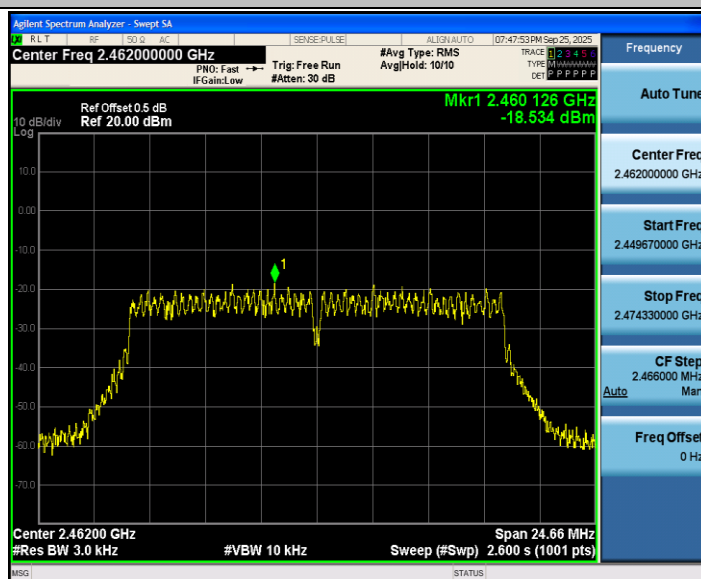
11G_Ant1_2412



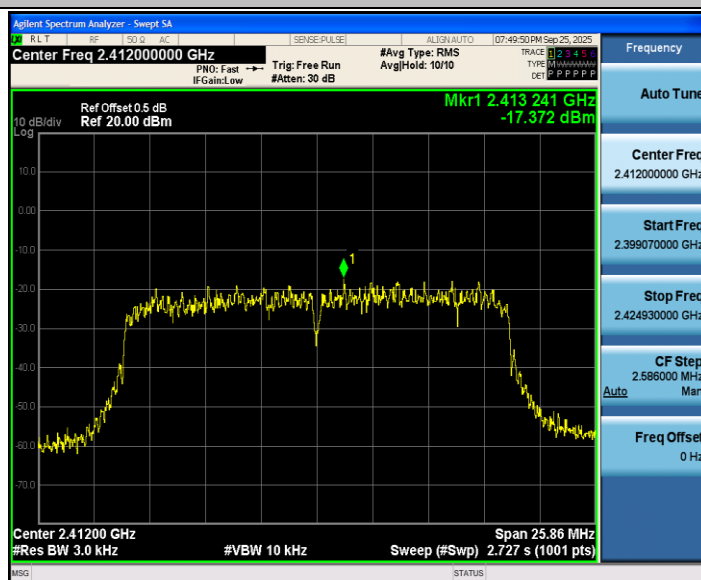
11G_Ant1_2437



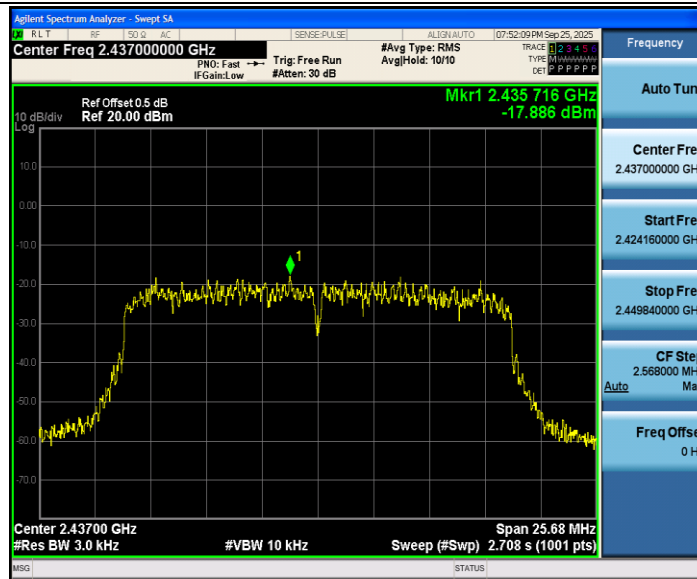
11G_Ant1_2462



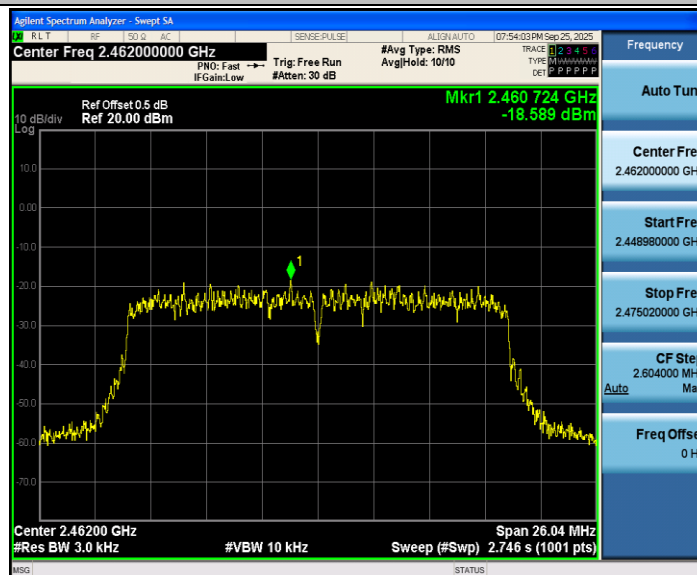
11N20SISO_Ant1_2412



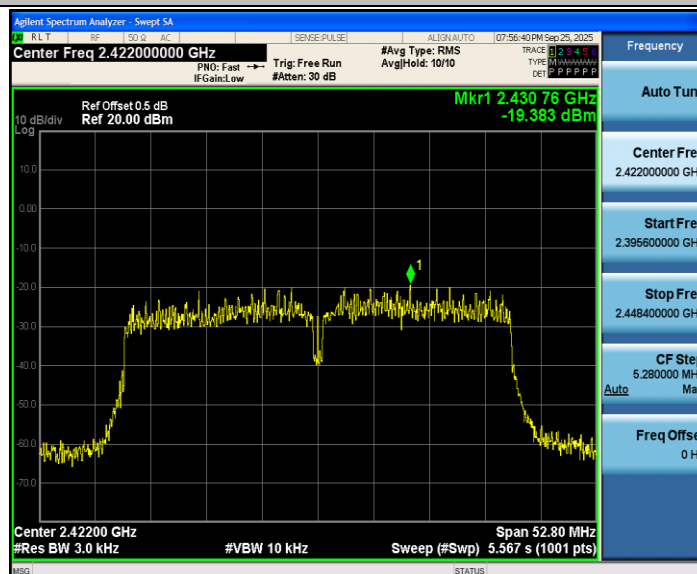
11N20SISO_Ant1_2437



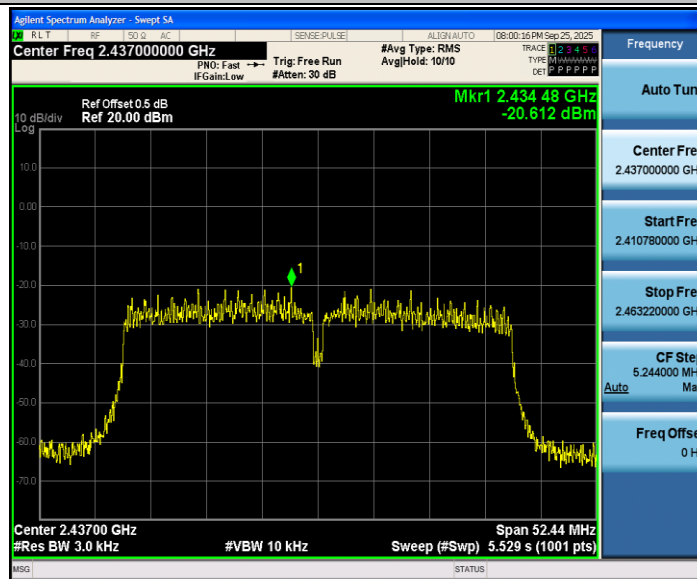
11N20SISO_Ant1_2462



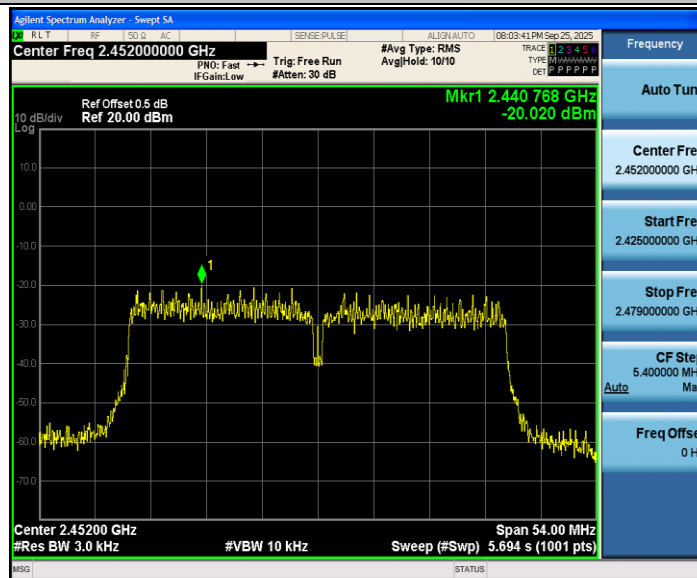
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



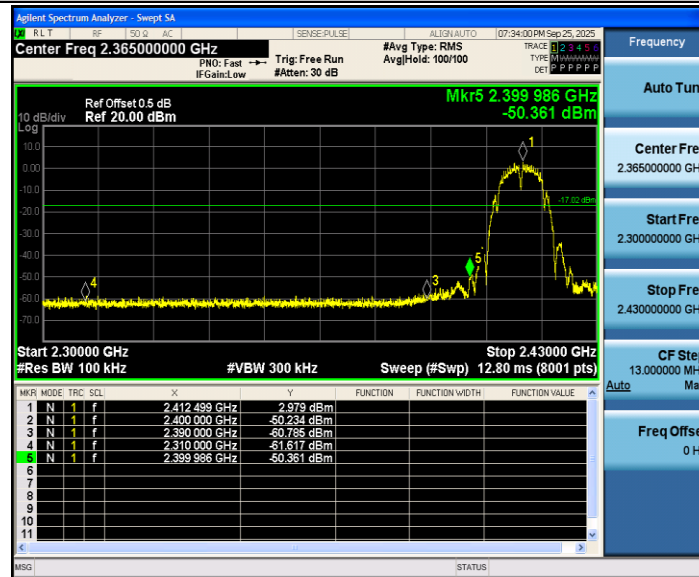
Appendix E: Band edge measurements

Test Result

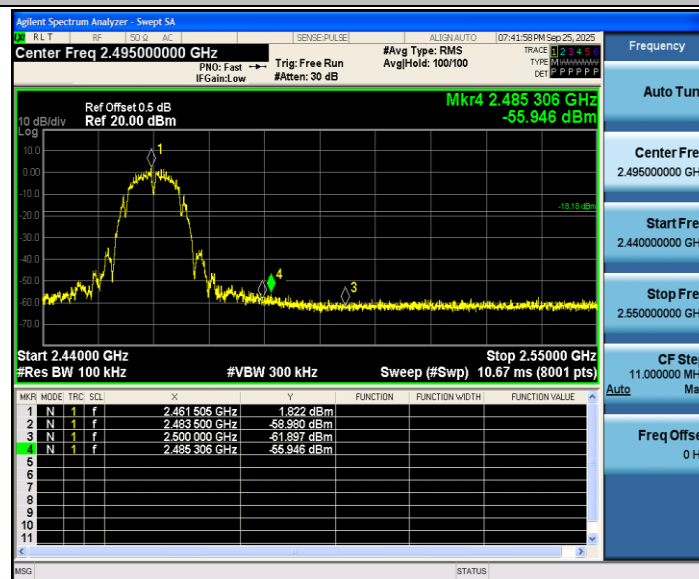
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.98	-50.36	≤-17.02	PASS
		High	2462	1.82	-55.95	≤-18.18	PASS
11G	Ant1	Low	2412	-2.20	-35.46	≤-22.2	PASS
		High	2462	-3.60	-47.32	≤-23.6	PASS
11N20SISO	Ant1	Low	2412	-2.16	-33.56	≤-22.16	PASS
		High	2462	-3.50	-46.35	≤-23.5	PASS
11N40SISO	Ant1	Low	2422	-4.68	-40.32	≤-24.68	PASS
		High	2452	-5.50	-46.72	≤-25.5	PASS

Test Graphs

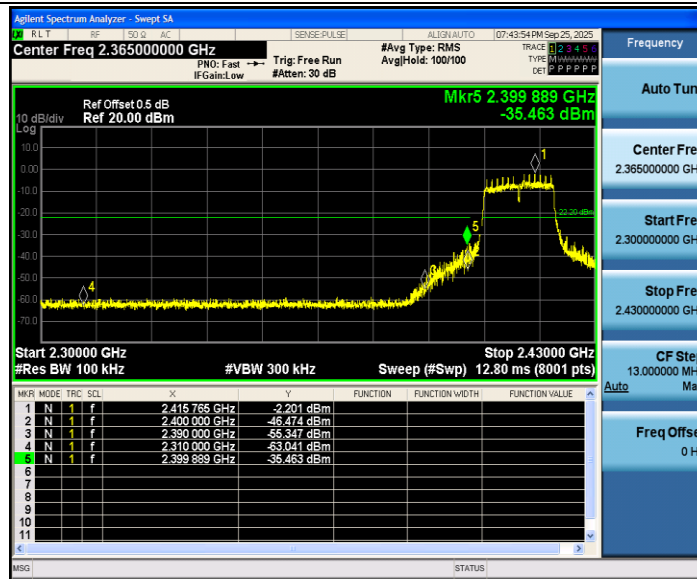
11B_Ant1_Low_2412



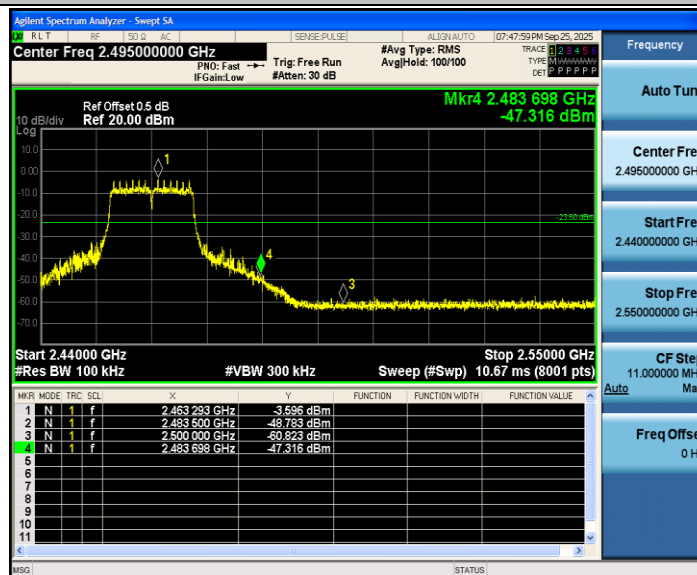
11B_Ant1_High_2462



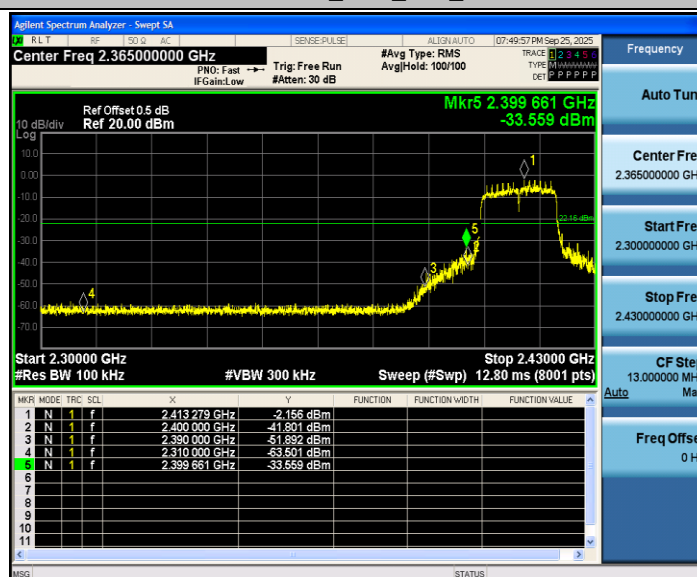
11G_Ant1_Low_2412



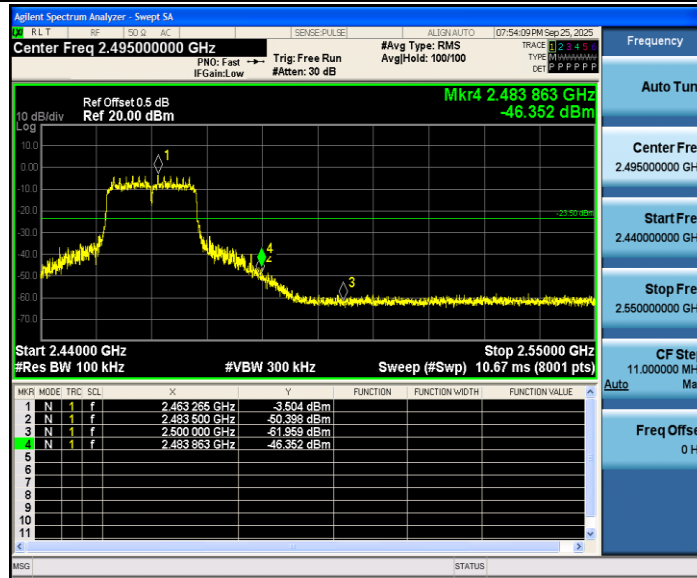
11G_Ant1_High_2462



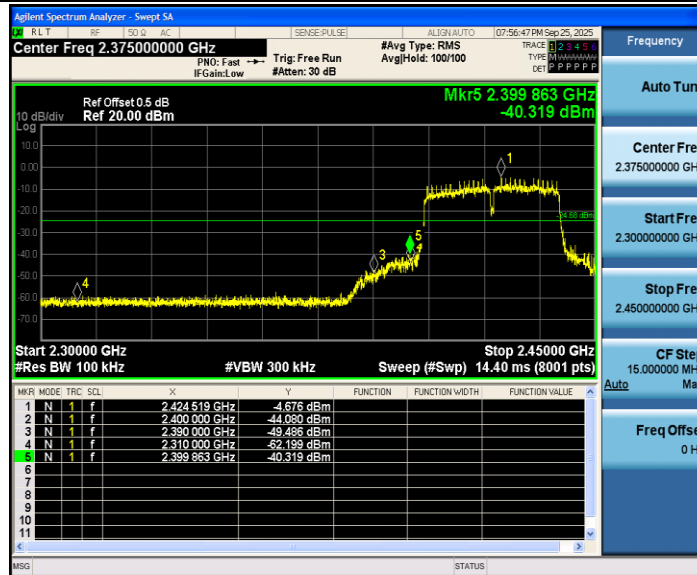
11N20SISO_Ant1_Low_2412



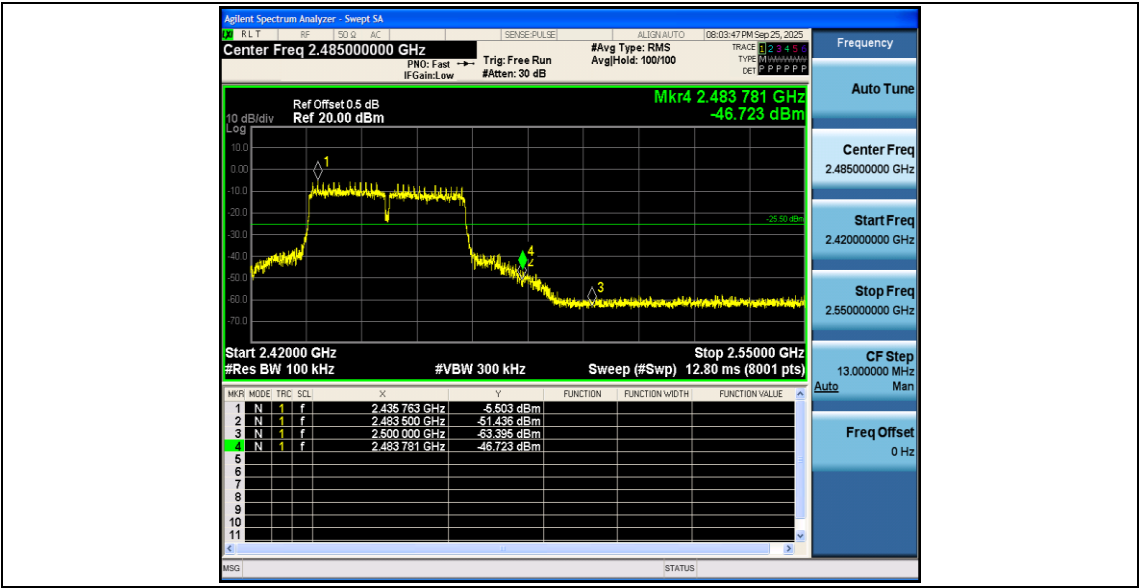
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

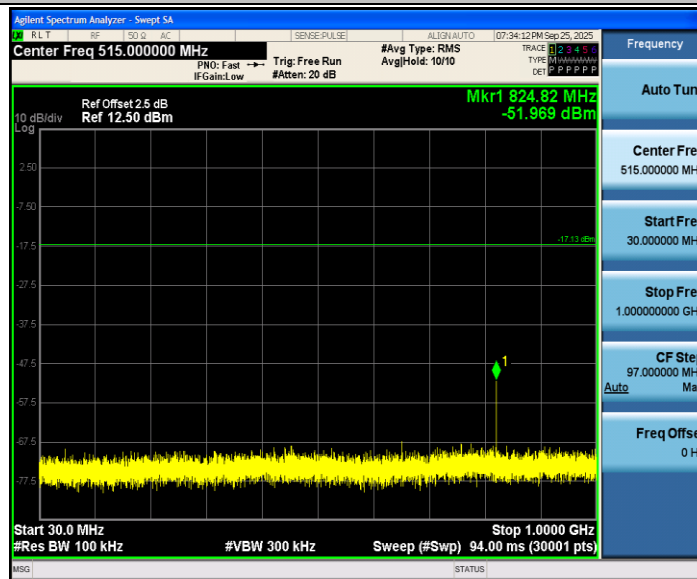
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.87	2.87	---	PASS
			30~1000	2.87	-51.97	≤-17.13	PASS
			1000~26500	2.87	-54.42	≤-17.13	PASS
		2437	Reference	2.54	2.54	---	PASS
			30~1000	2.54	-67.97	≤-17.46	PASS
			1000~26500	2.54	-55.53	≤-17.46	PASS
		2462	Reference	0.89	0.89	---	PASS
			30~1000	0.89	-68	≤-19.11	PASS
			1000~26500	0.89	-55.28	≤-19.11	PASS
11G	Ant1	2412	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-68.51	≤-22.23	PASS
			1000~26500	-2.23	-54.86	≤-22.23	PASS
		2437	Reference	-2.80	-2.80	---	PASS
			30~1000	-2.80	-68.07	≤-22.8	PASS
			1000~26500	-2.80	-54.49	≤-22.8	PASS
		2462	Reference	-4.03	-4.03	---	PASS
			30~1000	-4.03	-67.92	≤-24.03	PASS
			1000~26500	-4.03	-55.07	≤-24.03	PASS
11N20SISO	Ant1	2412	Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-61.22	≤-22.42	PASS
			1000~26500	-2.42	-55.35	≤-22.42	PASS
		2437	Reference	-2.97	-2.97	---	PASS
			30~1000	-2.97	-67.75	≤-22.97	PASS
			1000~26500	-2.97	-54.98	≤-22.97	PASS
		2462	Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-68.36	≤-24.08	PASS
			1000~26500	-4.08	-55.14	≤-24.08	PASS
11N40SISO	Ant1	2422	Reference	-5.03	-5.03	---	PASS
			30~1000	-5.03	-67.89	≤-25.03	PASS
			1000~26500	-5.03	-55.14	≤-25.03	PASS
		2437	Reference	-6.02	-6.02	---	PASS
			30~1000	-6.02	-68.17	≤-26.02	PASS
			1000~26500	-6.02	-54.42	≤-26.02	PASS
		2452	Reference	-5.76	-5.76	---	PASS
			30~1000	-5.76	-67.29	≤-25.76	PASS
			1000~26500	-5.76	-54.73	≤-25.76	PASS

Test Graphs

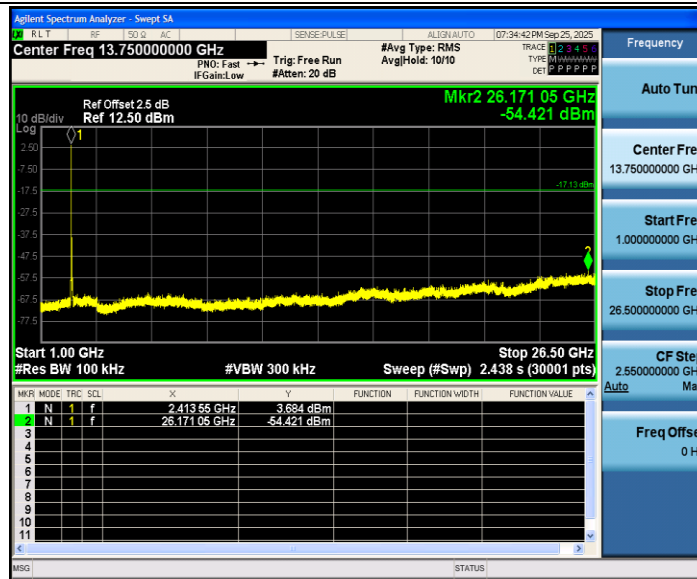
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



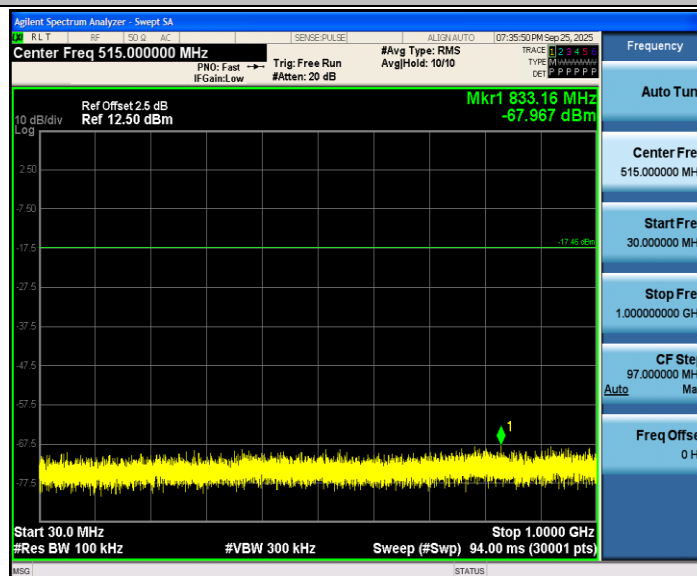
11B_Ant1_2412_1000~26500



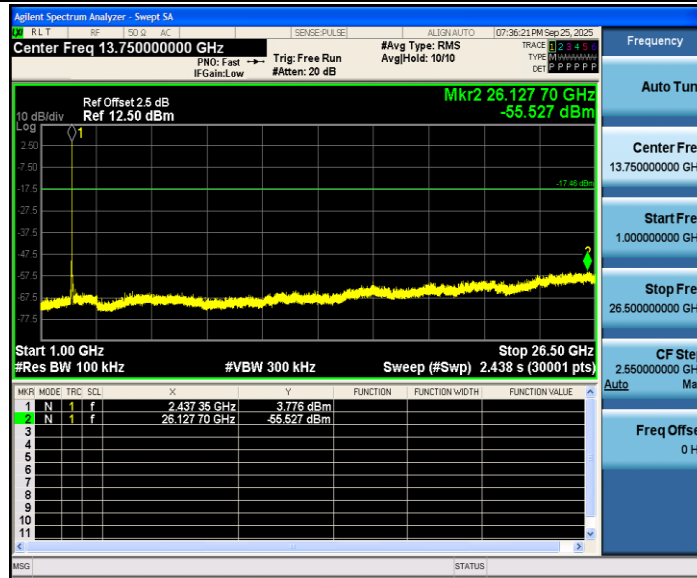
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



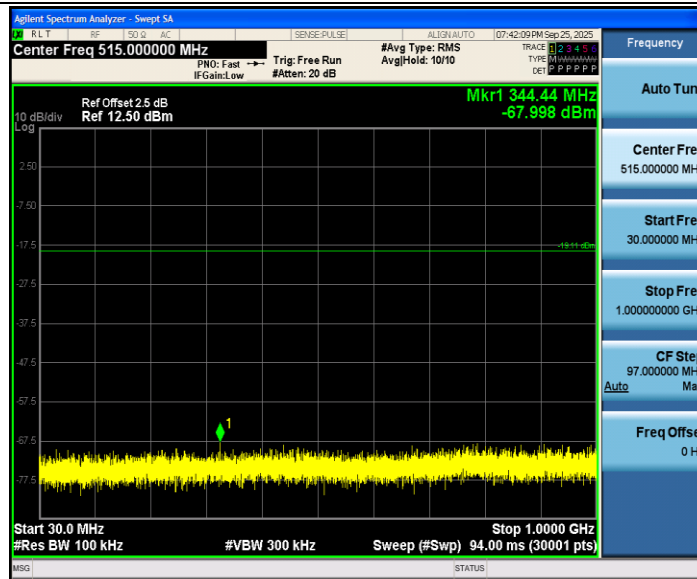
11B_Ant1_2437_1000~26500



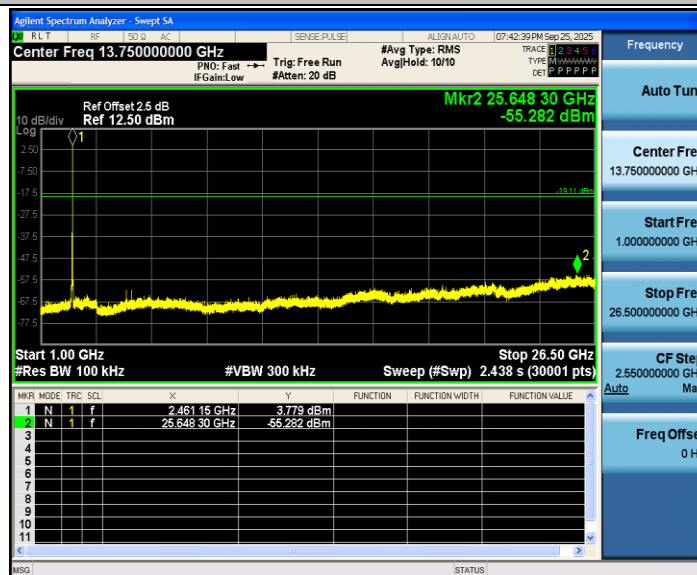
11B_Ant1_2462_0~Reference



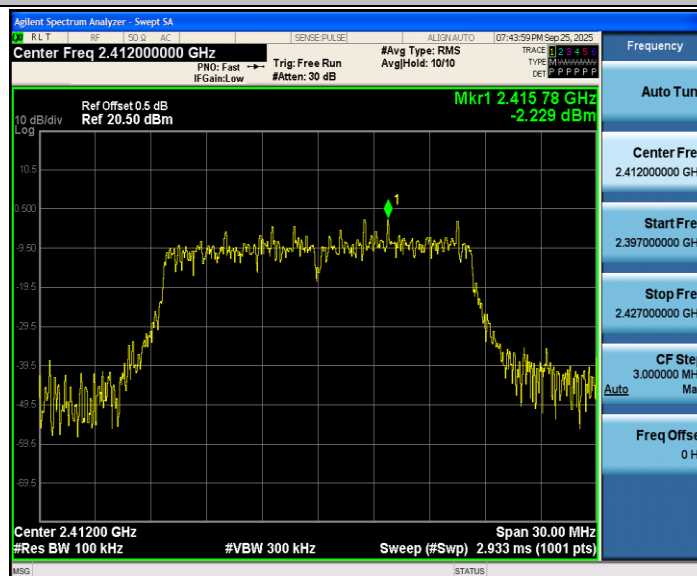
11B_Ant1_2462_30~1000



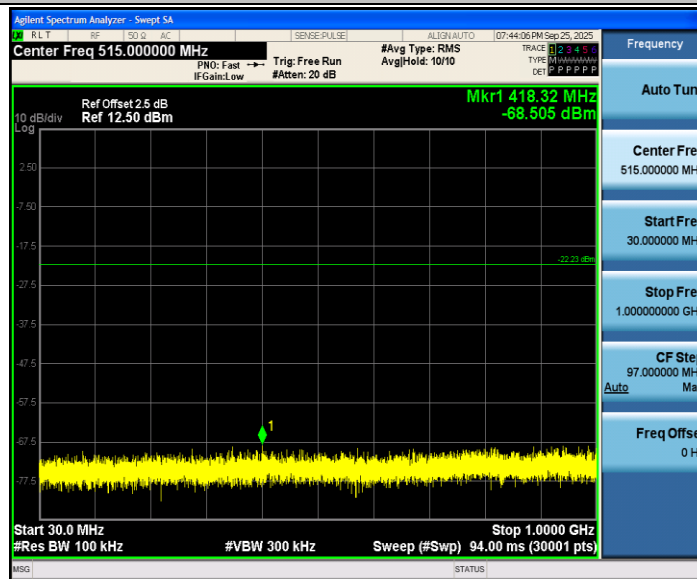
11B_Ant1_2462_1000~26500



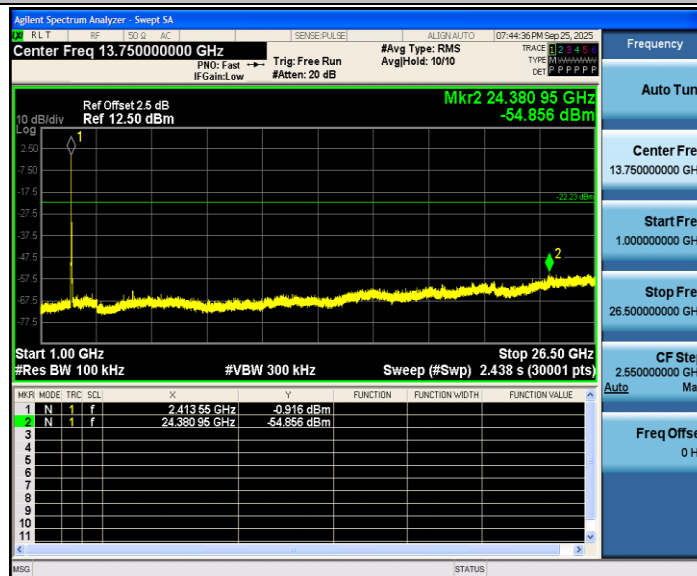
11G_Ant1_2412_0~Reference



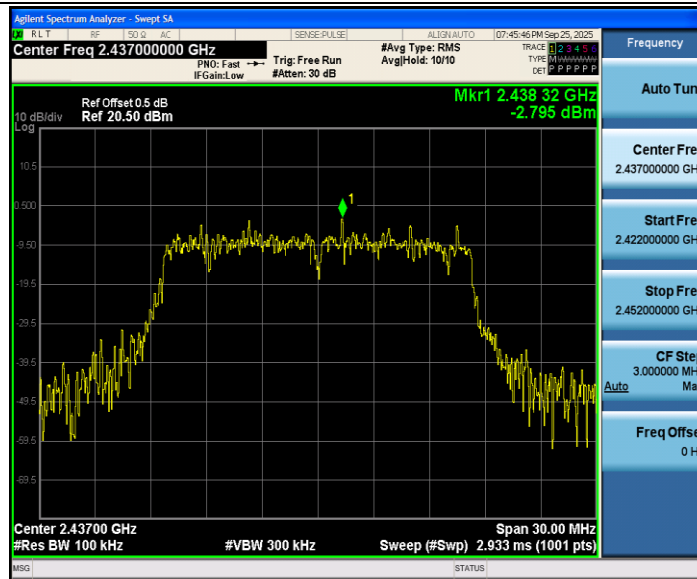
11G_Ant1_2412_30~1000



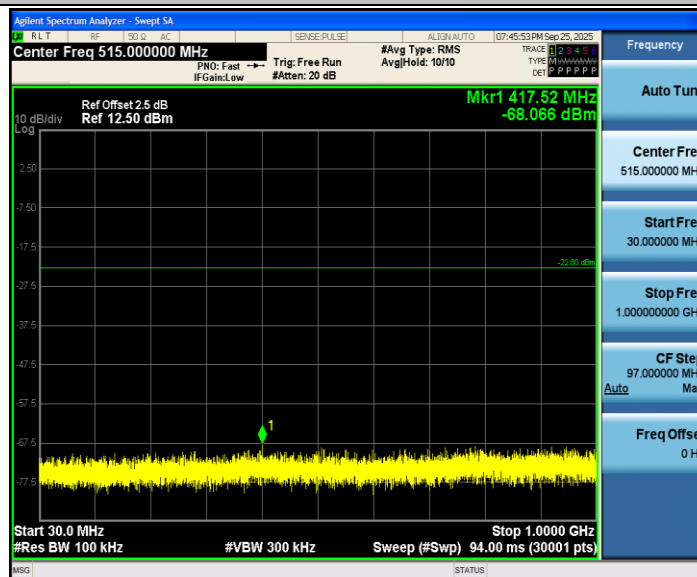
11G_Ant1_2412_1000~26500



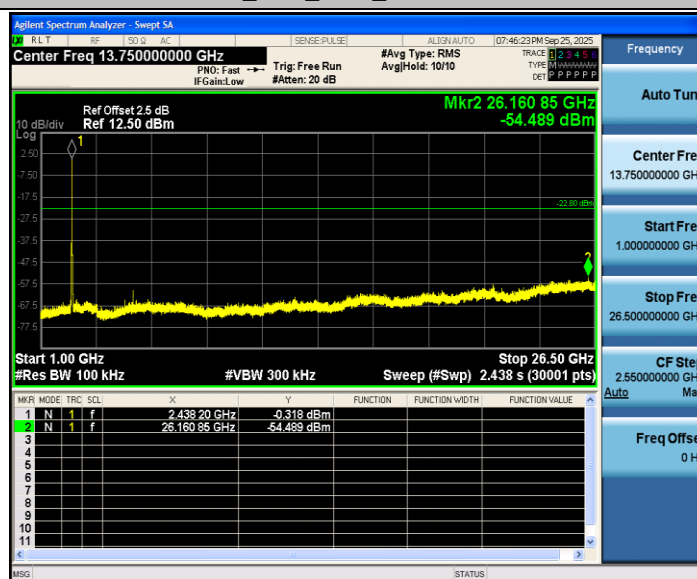
11G_Ant1_2437_0~Reference



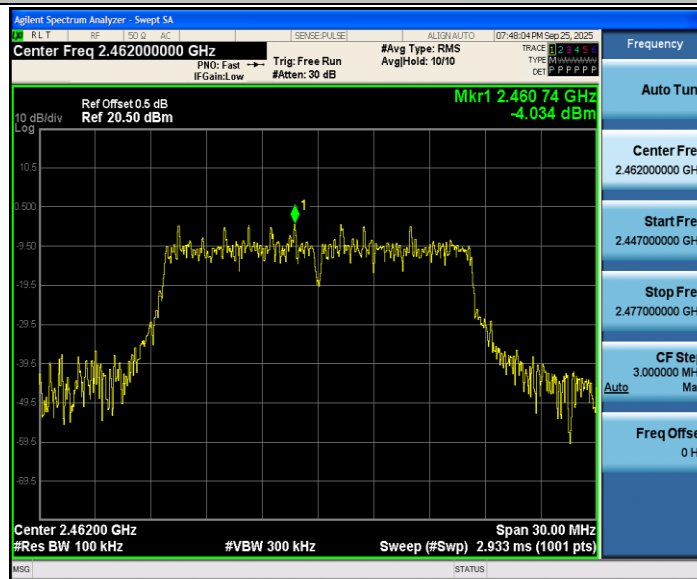
11G_Ant1_2437_30~1000



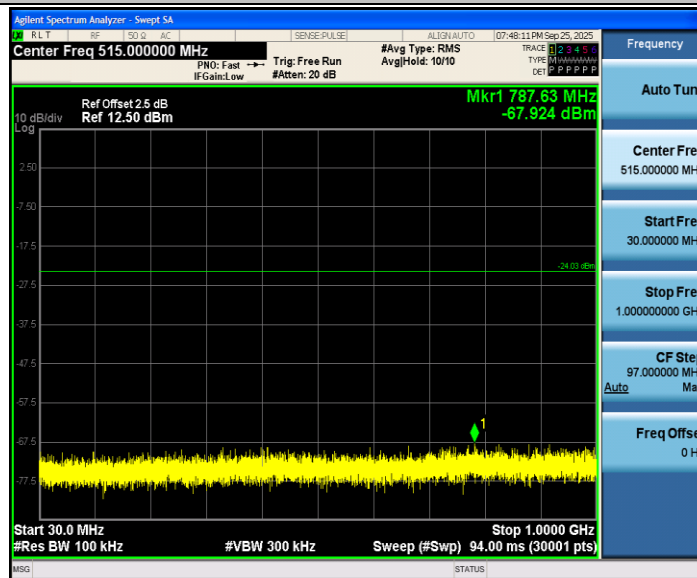
11G_Ant1_2437_1000~26500



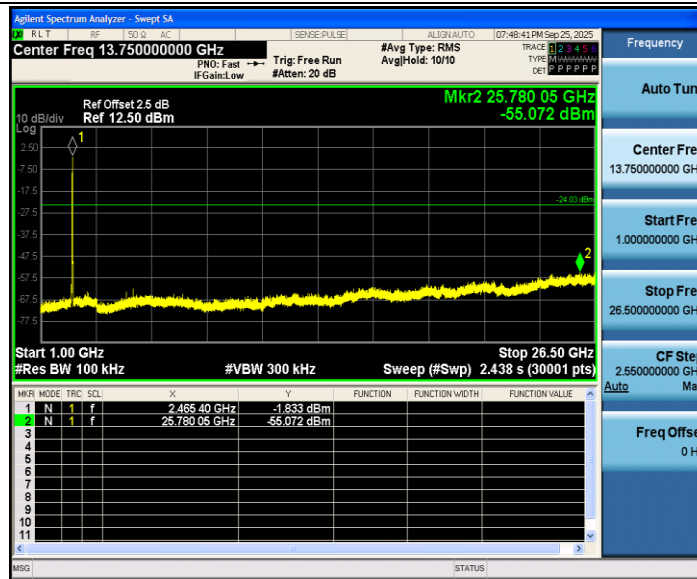
11G_Ant1_2462_0~Reference



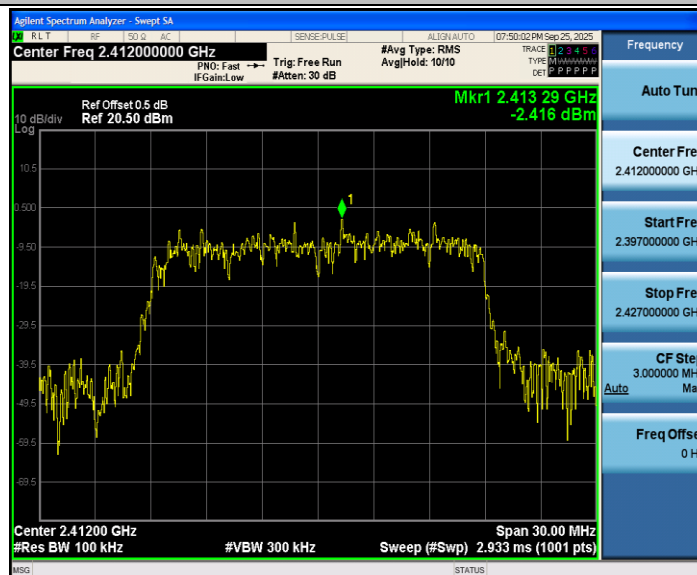
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

