

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BSTJ-LCD

Company : Shenzhen Libai Leather Goods Co., Ltd.

EUT : Smart AI Backpack

Model Number : 21.5-inch LCD Screen Casting Backpack

Report No. : CTA25102700503

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

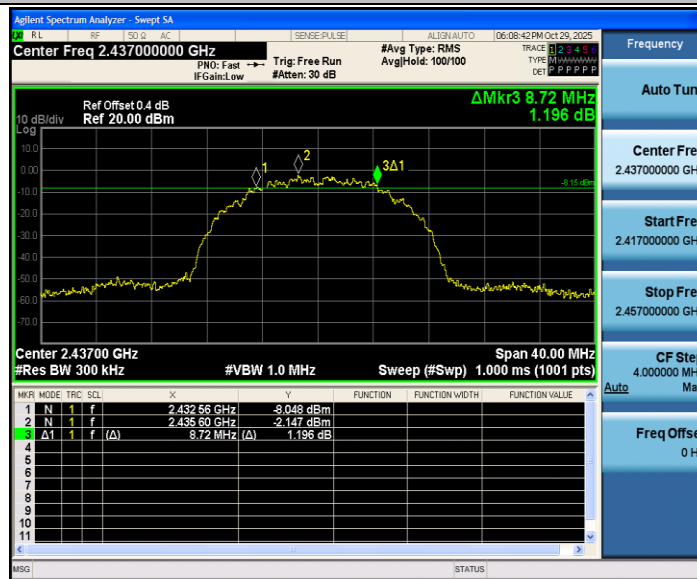
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.800	2408.440	2416.240	0.5	PASS
		2437	8.720	2432.560	2441.280	0.5	PASS
		2462	8.760	2457.520	2466.280	0.5	PASS
11G	Ant1	2412	16.280	2403.920	2420.200	0.5	PASS
		2437	16.400	2428.840	2445.240	0.5	PASS
		2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.400	2420.720	0.5	PASS
		2437	17.320	2428.360	2445.680	0.5	PASS
		2462	17.240	2453.400	2470.640	0.5	PASS
11N40SISO	Ant1	2422	33.440	2405.600	2439.040	0.5	PASS
		2437	34.240	2420.120	2454.360	0.5	PASS
		2452	33.840	2435.200	2469.040	0.5	PASS

Test Graphs

11B_Ant1_2412



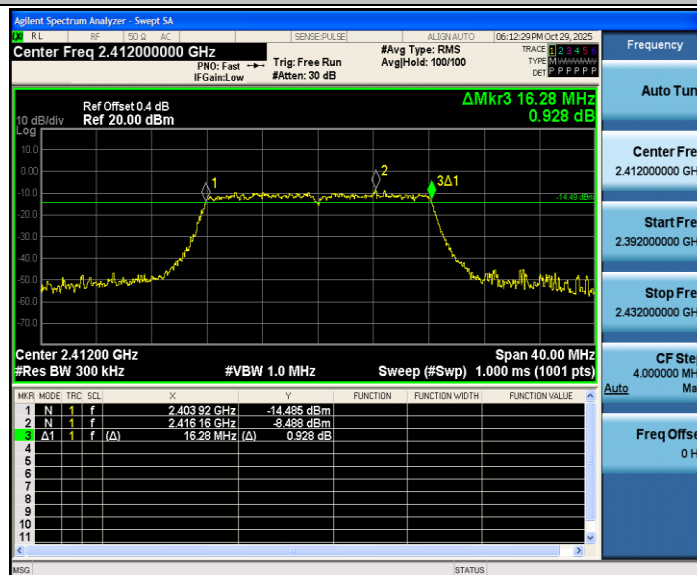
11B_Ant1_2437



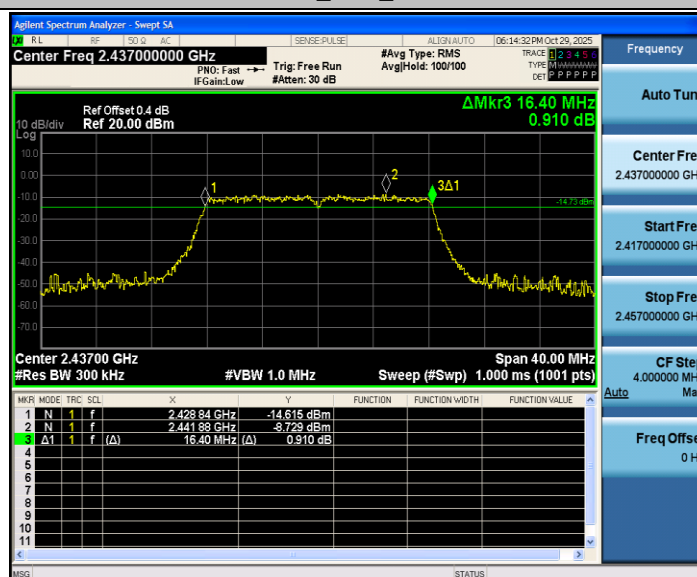
11B_Ant1_2462



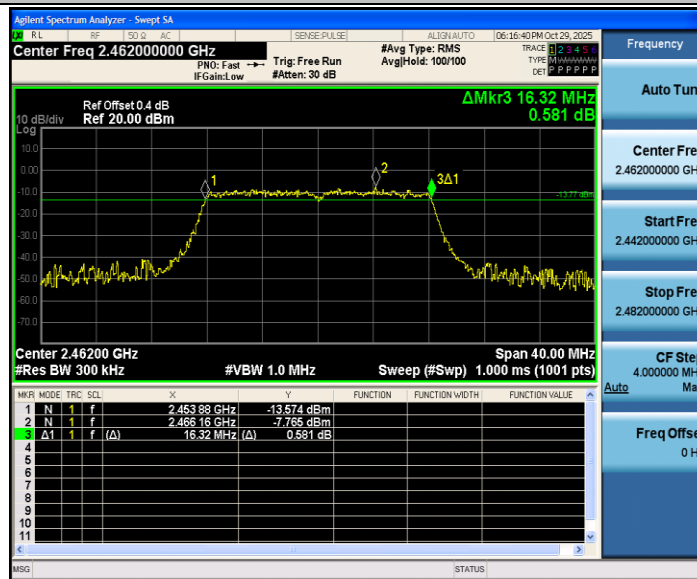
11G_Ant1_2412



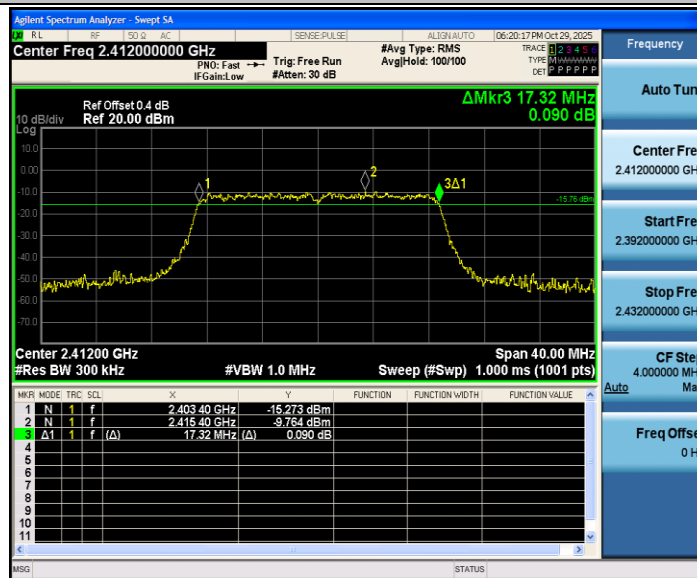
11G_Ant1_2437



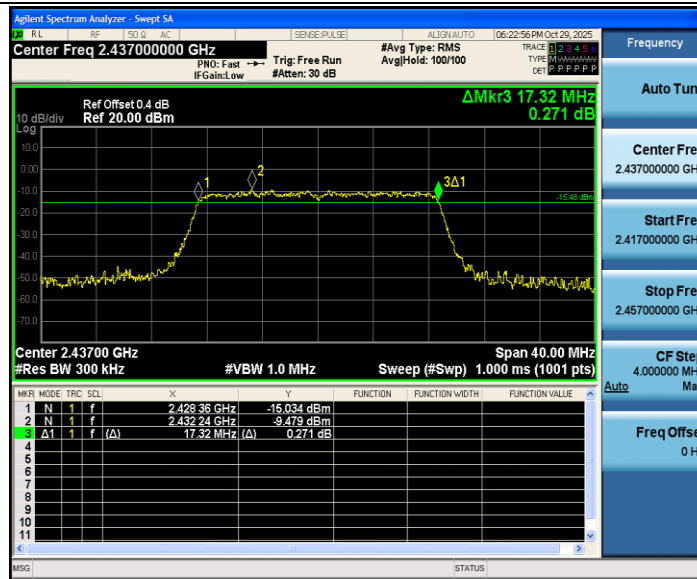
11G_Ant1_2462



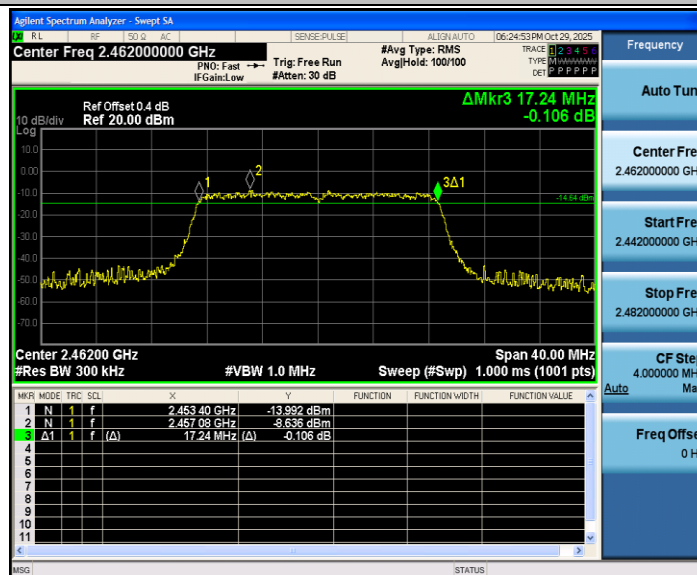
11N20SISO_Ant1_2412



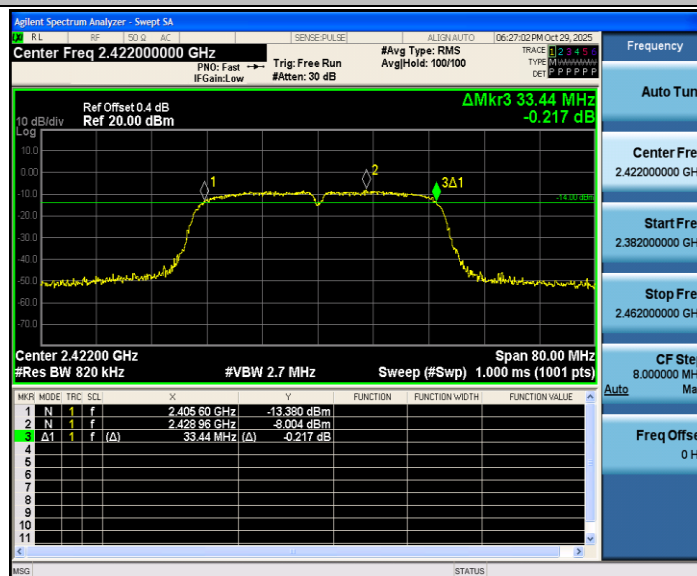
11N20SISO_Ant1_2437



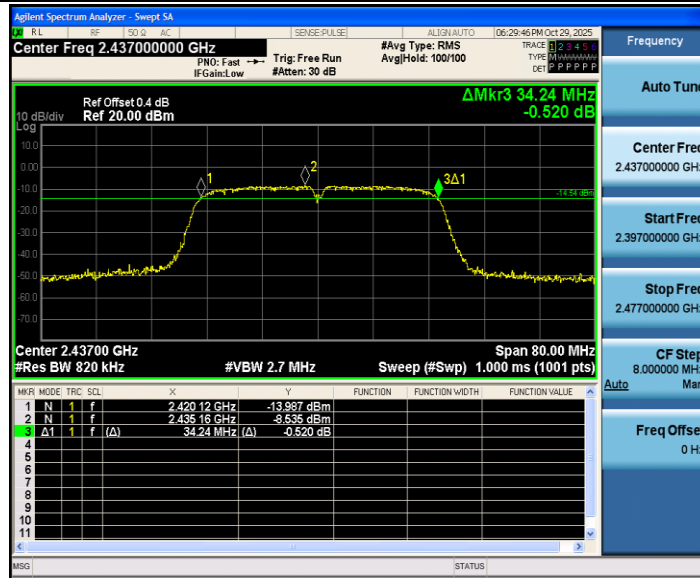
11N20SISO_Ant1_2462



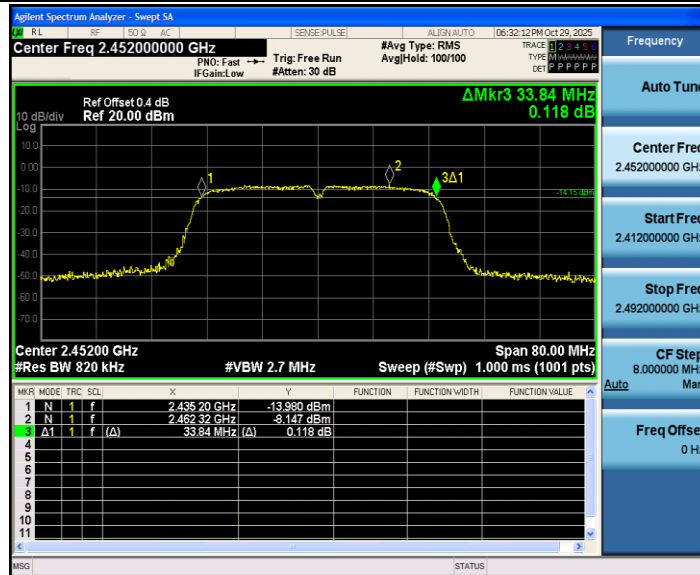
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



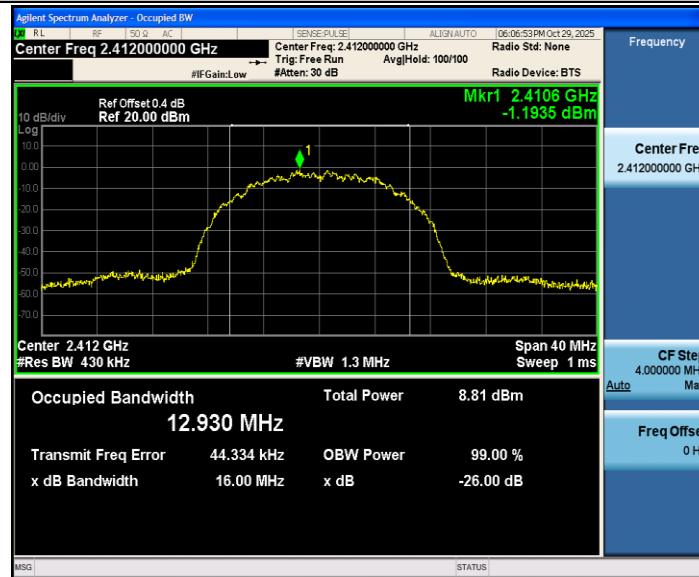
Appendix B: Occupied Channel Bandwidth

Test Result

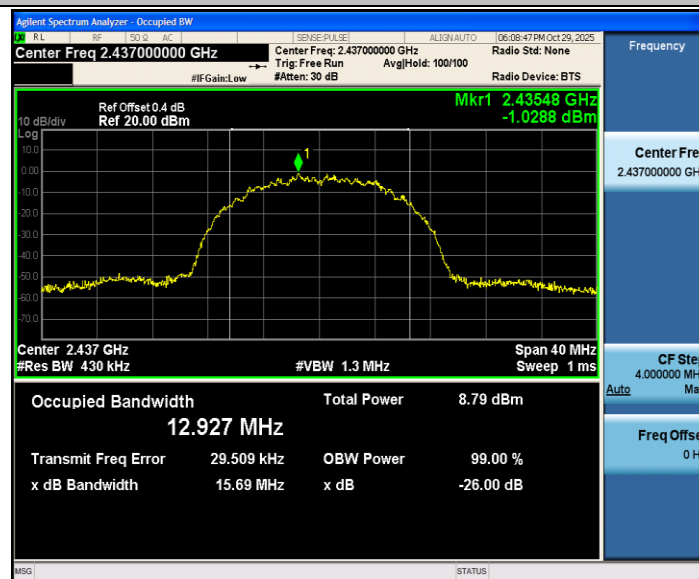
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.930	2405.5793	2418.5093	---	---
		2437	12.927	2430.5660	2443.4930	---	---
		2462	12.947	2455.5509	2468.4979	---	---
11G	Ant1	2412	16.601	2403.7425	2420.3435	---	---
		2437	16.564	2428.7601	2445.3241	---	---
		2462	16.589	2453.7320	2470.3210	---	---
11N20SISO	Ant1	2412	17.423	2403.3277	2420.7507	---	---
		2437	17.472	2428.3073	2445.7793	---	---
		2462	17.469	2453.2954	2470.7644	---	---
11N40SISO	Ant1	2422	34.881	2404.7151	2439.5961	---	---
		2437	34.823	2419.7047	2454.5277	---	---
		2452	34.870	2434.6107	2469.4807	---	---

Test Graphs

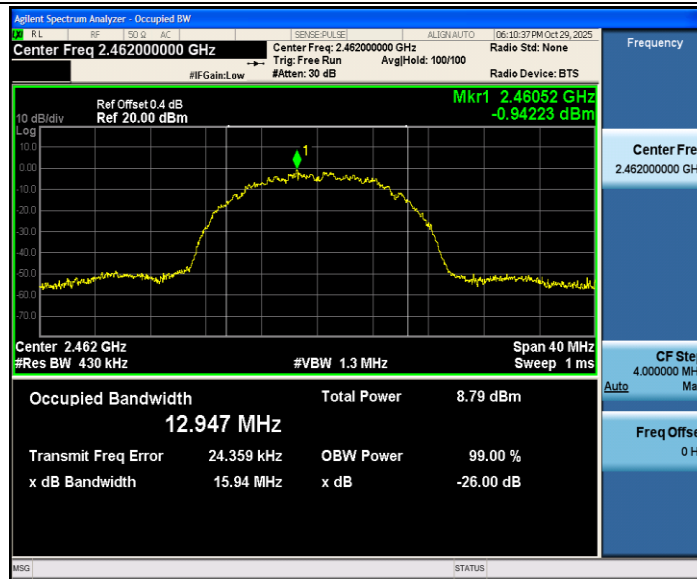
11B_Ant1_2412



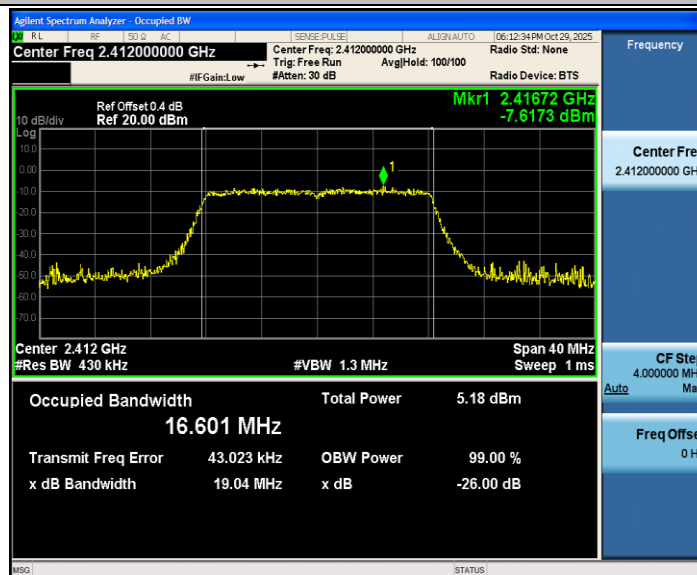
11B_Ant1_2437



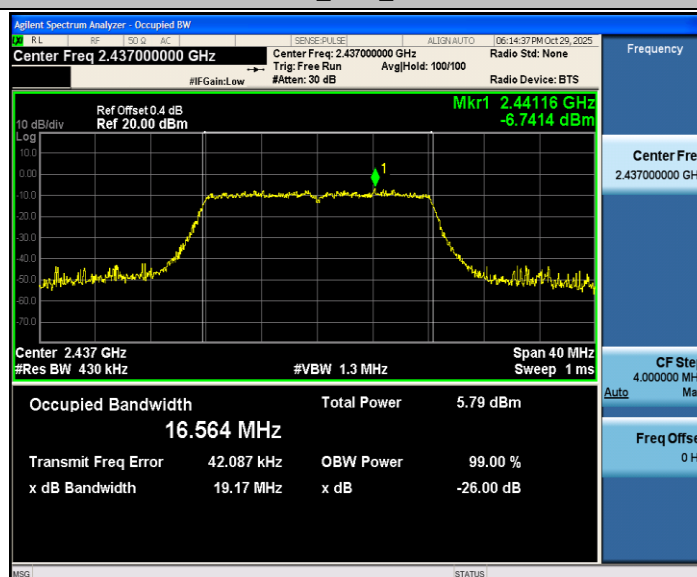
11B_Ant1_2462



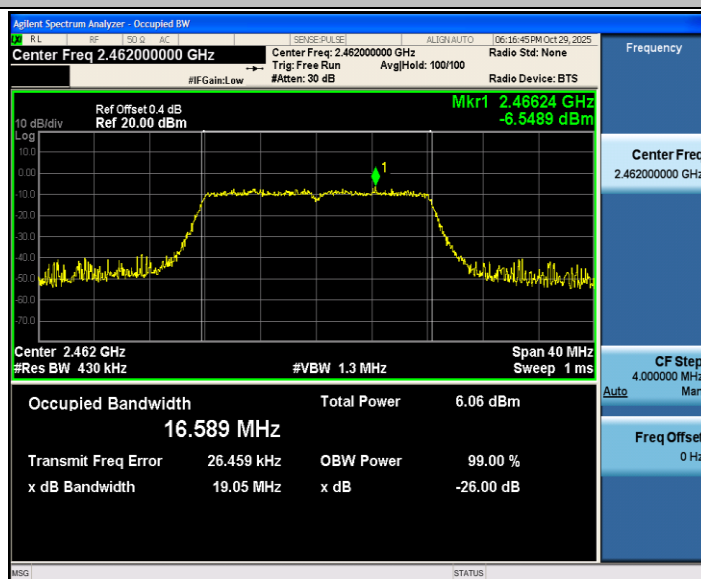
11G_Ant1_2412



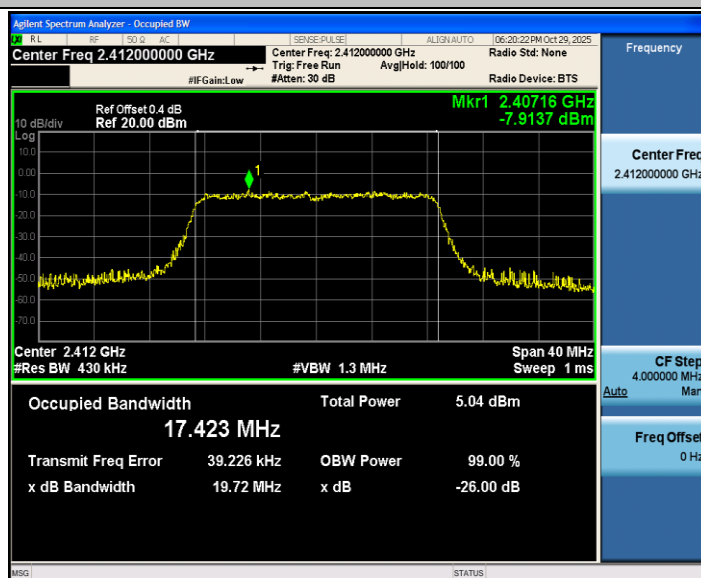
11G_Ant1_2437



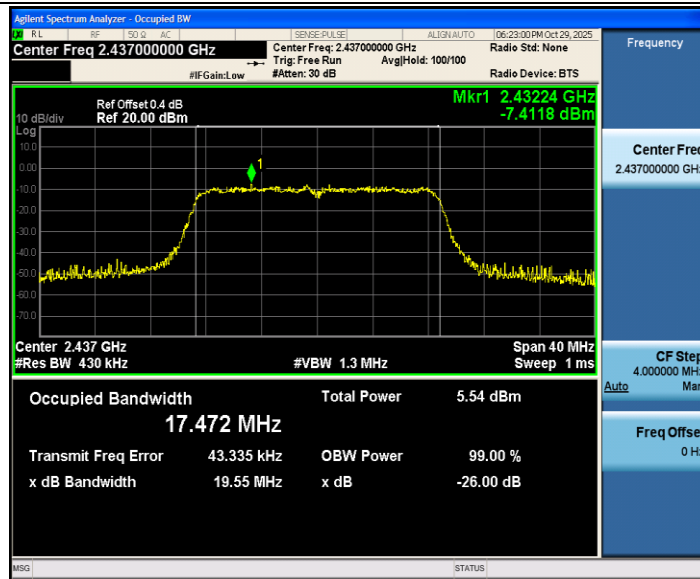
11G_Ant1_2462



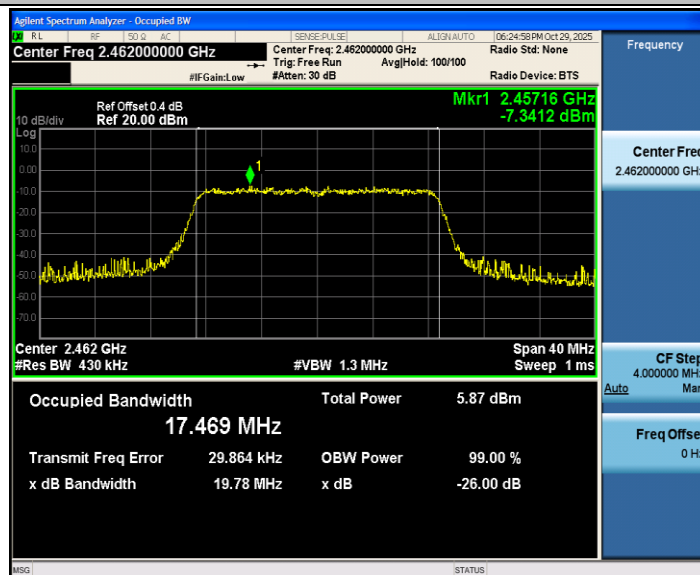
11N20SISO_Ant1_2412



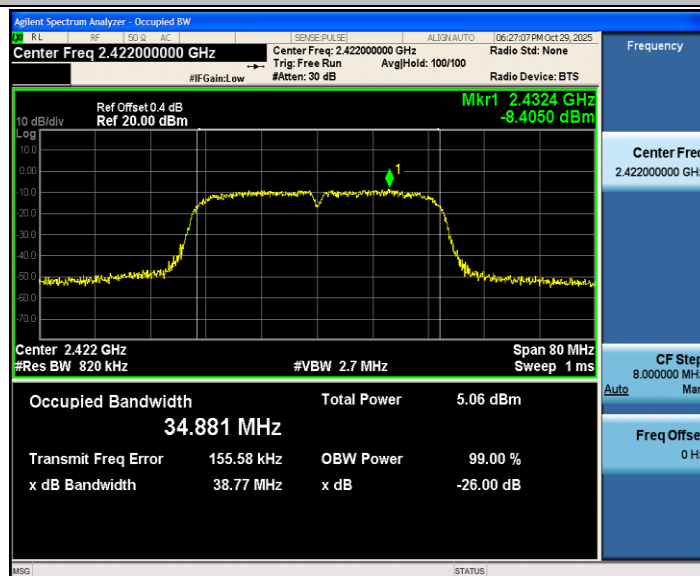
11N20SISO_Ant1_2437



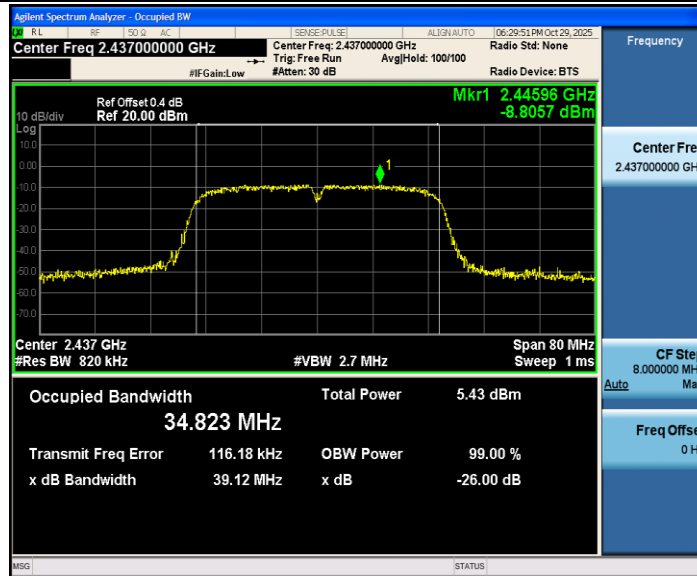
11N20SISO_Ant1_2462



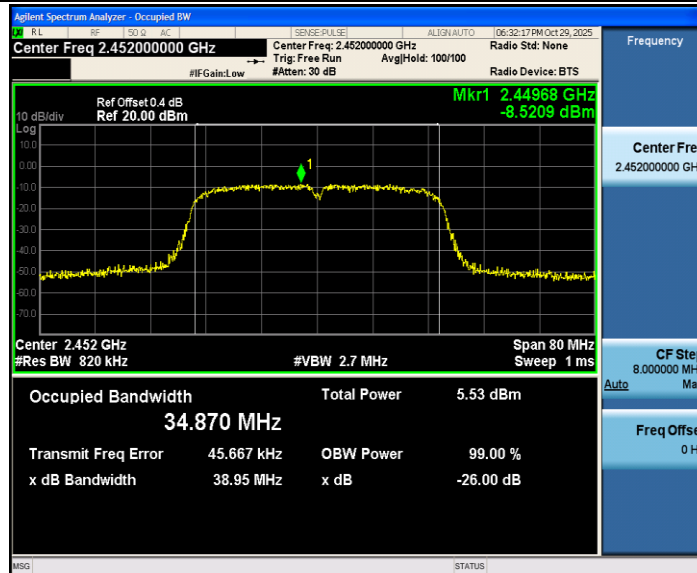
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	7.93	≤30.00	PASS
		2437	8.19	≤30.00	PASS
		2462	8.25	≤30.00	PASS
11G	Ant1	2412	6.00	≤30.00	PASS
		2437	6.68	≤30.00	PASS
		2462	6.96	≤30.00	PASS
11N20SISO	Ant1	2412	6.23	≤30.00	PASS
		2437	6.71	≤30.00	PASS
		2462	6.99	≤30.00	PASS
11N40SISO	Ant1	2422	5.45	≤30.00	PASS
		2437	5.60	≤30.00	PASS
		2452	5.68	≤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	-20.91	≤8.00	PASS
		2437	-20.57	≤8.00	PASS
		2462	-21.06	≤8.00	PASS
11G	Ant1	2412	-28.41	≤8.00	PASS
		2437	-27.89	≤8.00	PASS
		2462	-27.67	≤8.00	PASS
11N20SISO	Ant1	2412	-28.36	≤8.00	PASS
		2437	-27.47	≤8.00	PASS
		2462	-27.28	≤8.00	PASS
11N40SISO	Ant1	2422	-29.16	≤8.00	PASS
		2437	-29.83	≤8.00	PASS
		2452	-29.57	≤8.00	PASS

Test Graphs

11B_Ant1_2412



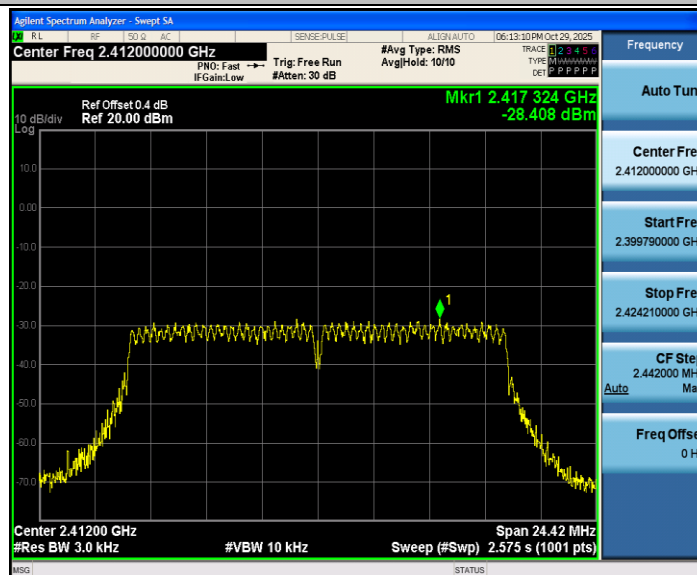
11B_Ant1_2437



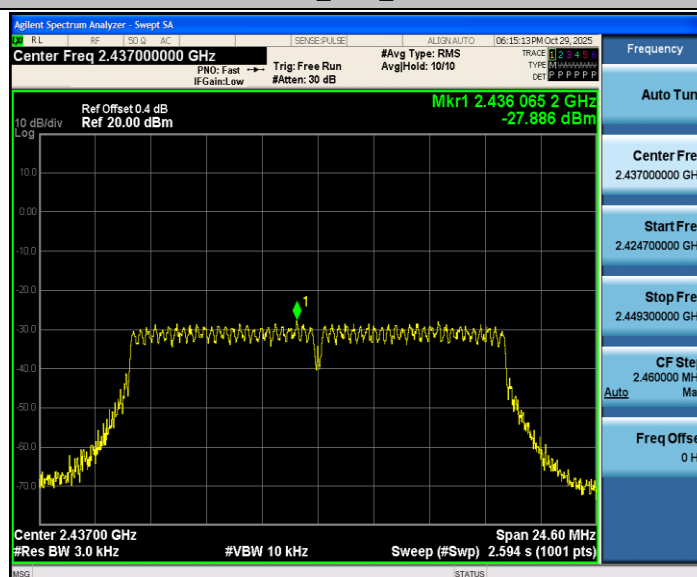
11B_Ant1_2462



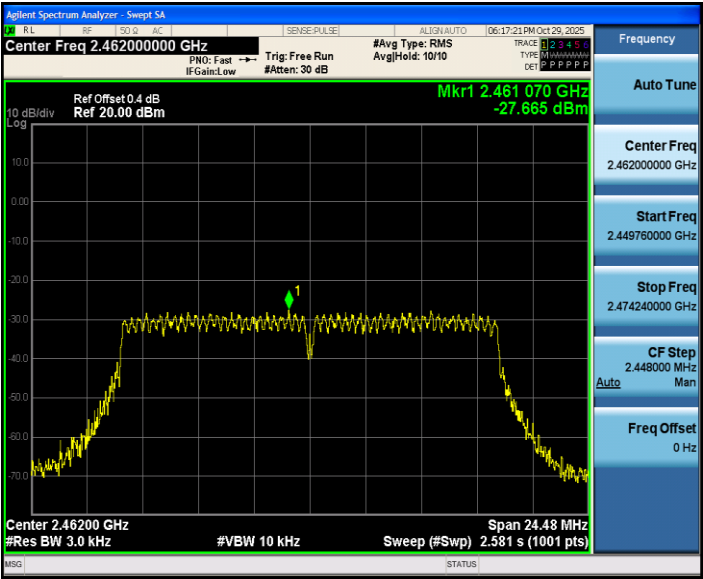
11G_Ant1_2412



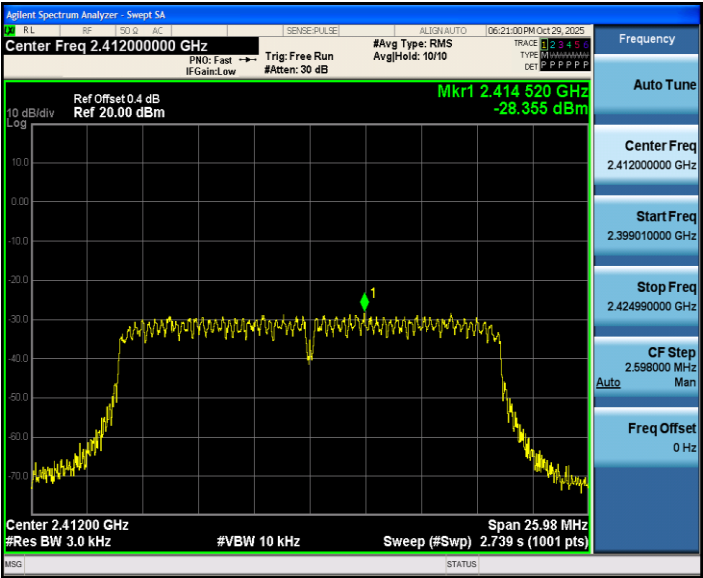
11G_Ant1_2437



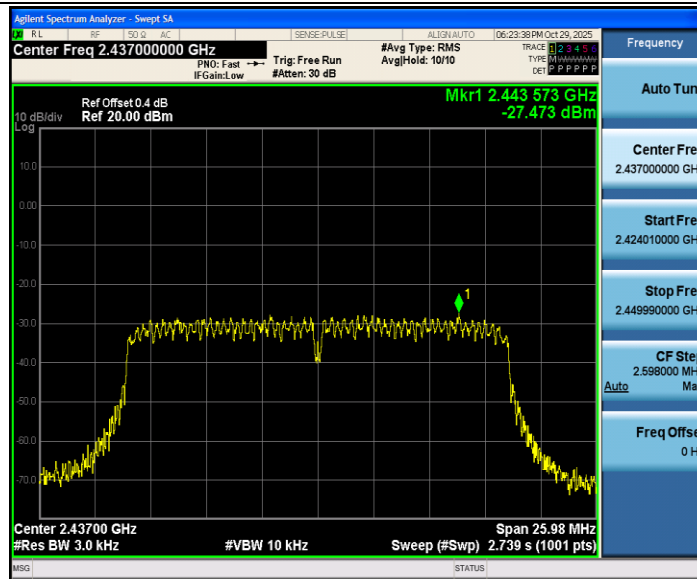
11G_Ant1_2462



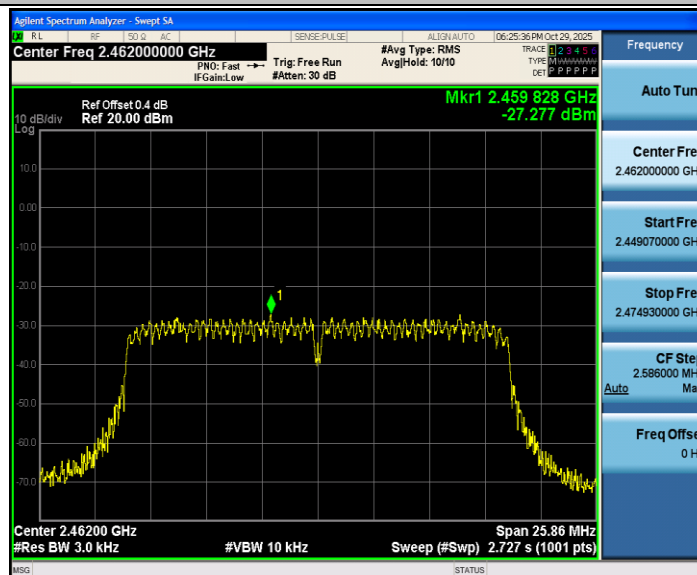
11N20SISO_Ant1_2412



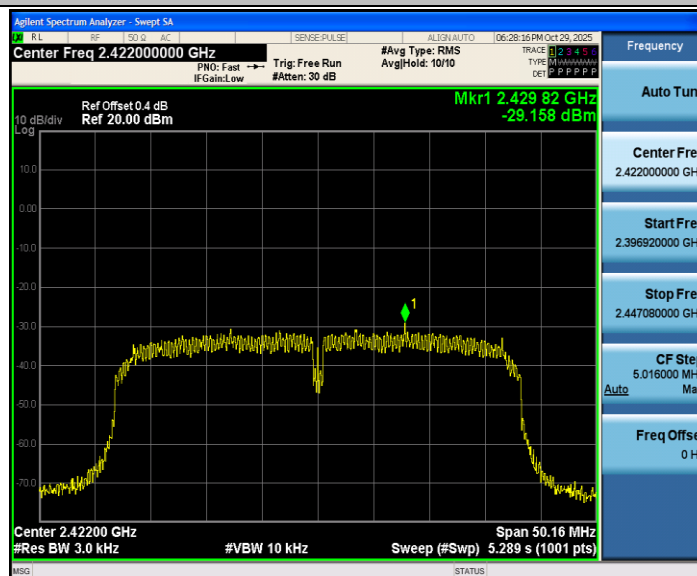
11N20SISO_Ant1_2437



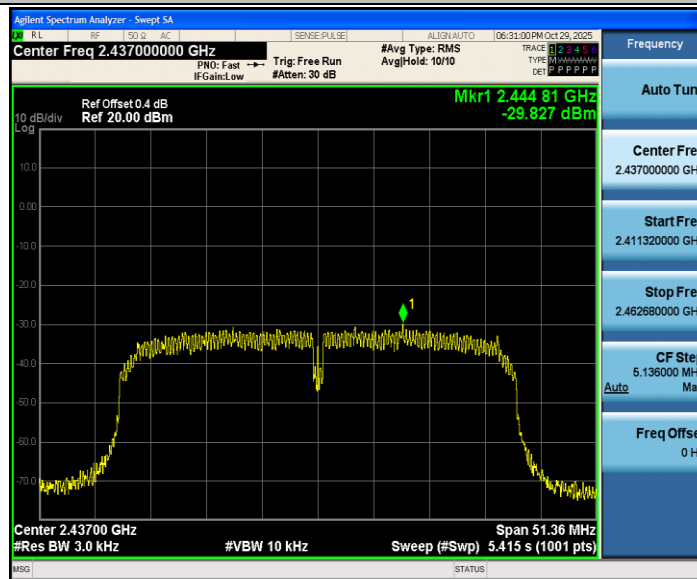
11N20SISO_Ant1_2462



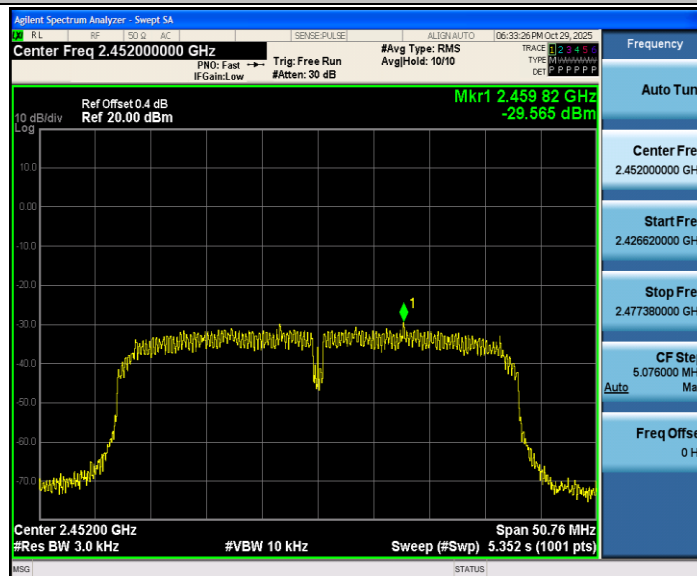
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



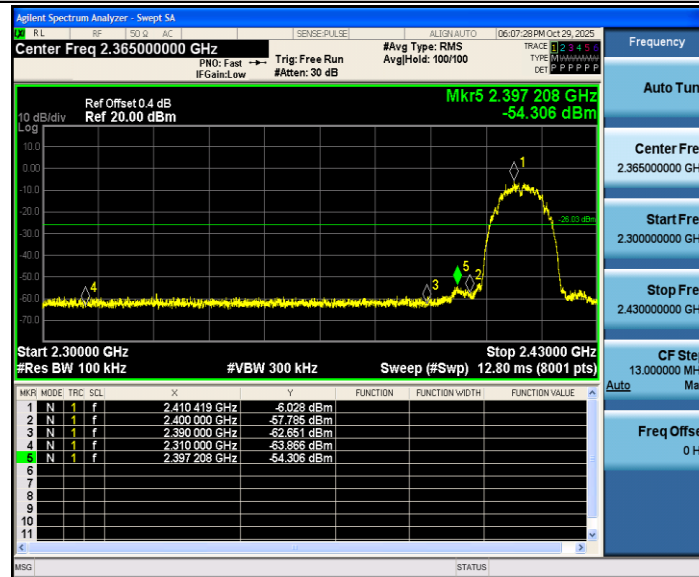
Appendix E: Band edge measurements

Test Result

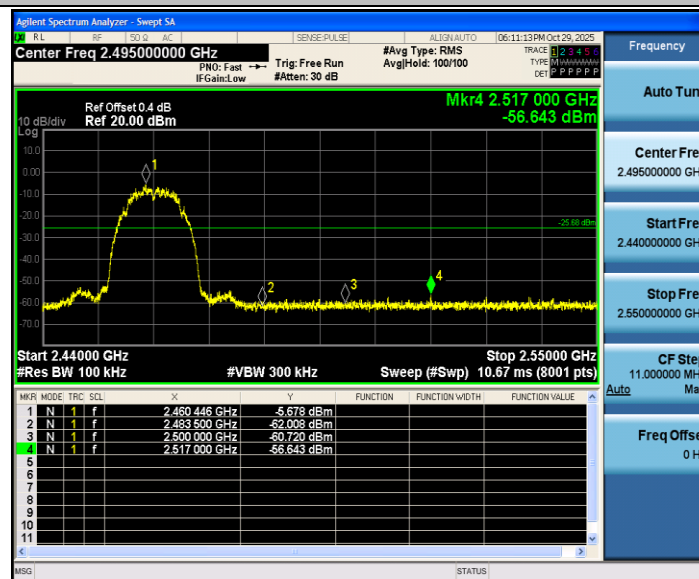
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.03	-54.31	≤-26.03	PASS
		High	2462	-5.68	-56.64	≤-25.68	PASS
11G	Ant1	Low	2412	-14.39	-51.99	≤-34.39	PASS
		High	2462	-13.45	-54.44	≤-33.45	PASS
11N20SISO	Ant1	Low	2412	-14.68	-52.64	≤-34.68	PASS
		High	2462	-13.38	-56.02	≤-33.38	PASS
11N40SISO	Ant1	Low	2422	-17.78	-55.29	≤-37.78	PASS
		High	2452	-17.38	-57.92	≤-37.38	PASS

Test Graphs

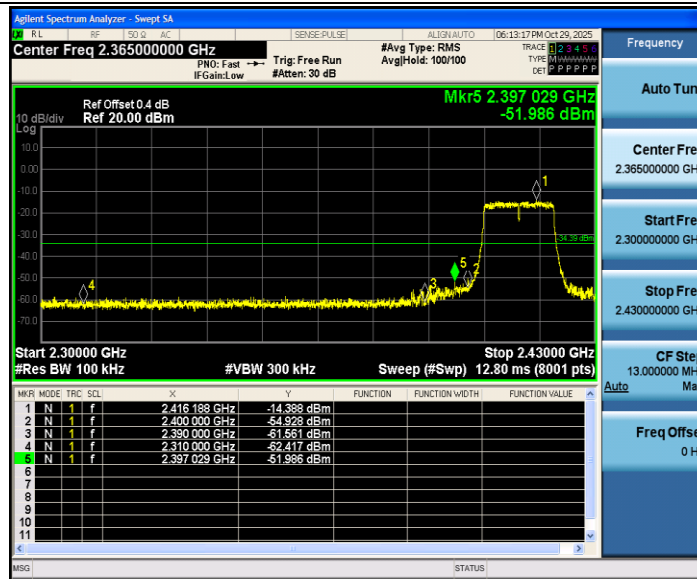
11B_Ant1_Low_2412



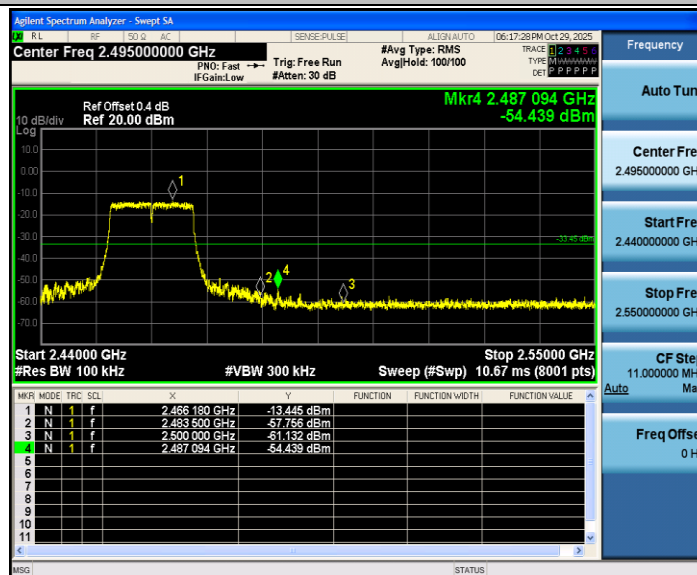
11B_Ant1_High_2462



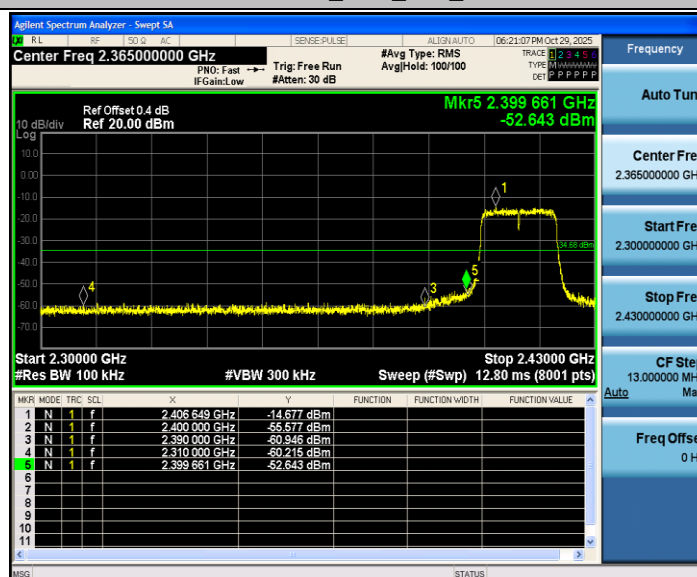
11G_Ant1_Low_2412



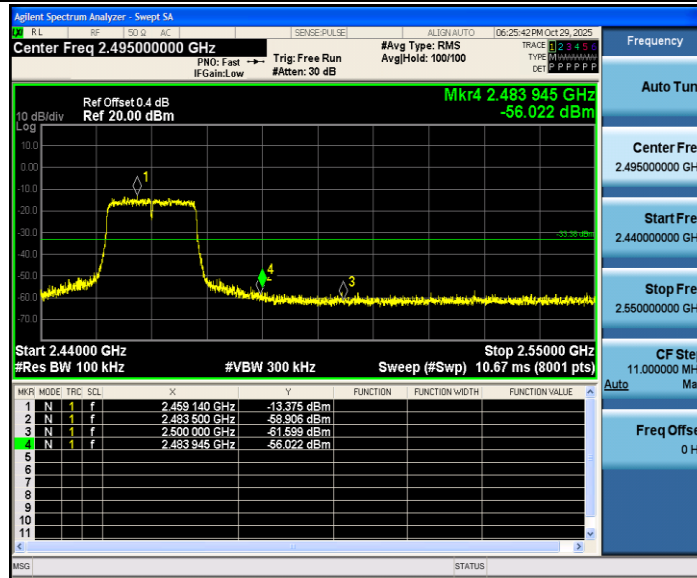
11G_Ant1_High_2462



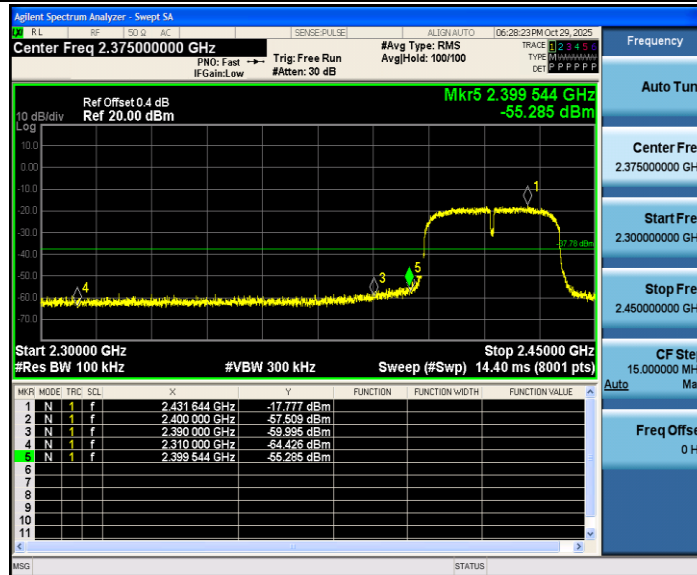
11N20SISO_Ant1_Low_2412



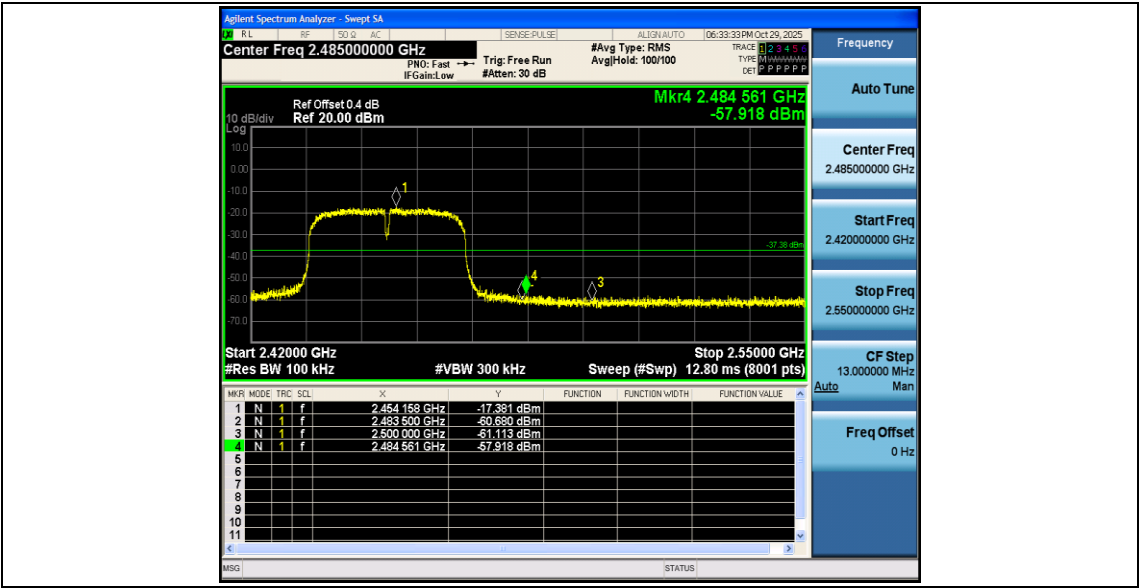
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



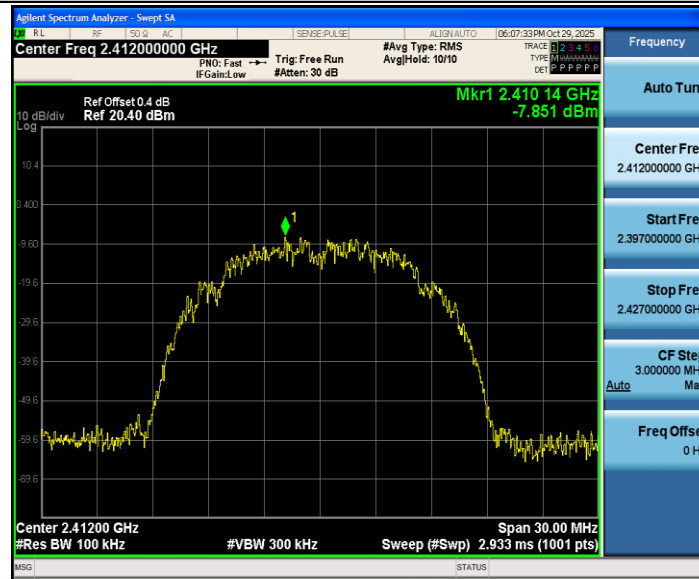
Appendix F: Conducted Spurious Emission

Test Result

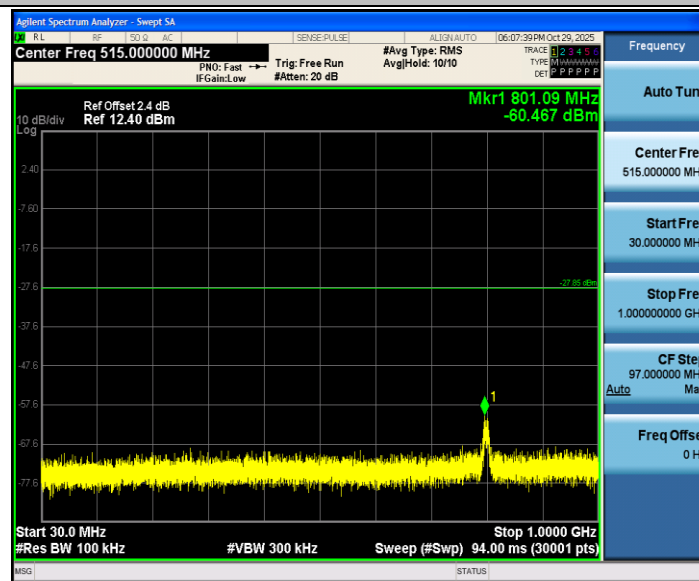
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-7.85	-7.85	---	PASS
			30~1000	-7.85	-60.47	≤-27.85	PASS
			1000~26500	-7.85	-45.3	≤-27.85	PASS
		2437	Reference	-6.67	-6.67	---	PASS
			30~1000	-6.67	-60.82	≤-26.67	PASS
			1000~26500	-6.67	-45.81	≤-26.67	PASS
		2462	Reference	-5.43	-5.43	---	PASS
			30~1000	-5.43	-60.05	≤-25.43	PASS
			1000~26500	-5.43	-46.22	≤-25.43	PASS
11G	Ant1	2412	Reference	-15.23	-15.23	---	PASS
			30~1000	-15.23	-64.27	≤-35.23	PASS
			1000~26500	-15.23	-45.31	≤-35.23	PASS
		2437	Reference	-14.20	-14.20	---	PASS
			30~1000	-14.20	-64.61	≤-34.2	PASS
			1000~26500	-14.20	-45.78	≤-34.2	PASS
		2462	Reference	-14.18	-14.18	---	PASS
			30~1000	-14.18	-63.88	≤-34.18	PASS
			1000~26500	-14.18	-46.28	≤-34.18	PASS
11N20SISO	Ant1	2412	Reference	-15.25	-15.25	---	PASS
			30~1000	-15.25	-63.94	≤-35.25	PASS
			1000~26500	-15.25	-45.32	≤-35.25	PASS
		2437	Reference	-14.17	-14.17	---	PASS
			30~1000	-14.17	-64.12	≤-34.17	PASS
			1000~26500	-14.17	-46.01	≤-34.17	PASS
		2462	Reference	-14.44	-14.44	---	PASS
			30~1000	-14.44	-63.8	≤-34.44	PASS
			1000~26500	-14.44	-46.2	≤-34.44	PASS
11N40SISO	Ant1	2422	Reference	-18.05	-18.05	---	PASS
			30~1000	-18.05	-65.44	≤-38.05	PASS
			1000~26500	-18.05	-45.81	≤-38.05	PASS
		2437	Reference	-17.93	-17.93	---	PASS
			30~1000	-17.93	-65.43	≤-37.93	PASS
			1000~26500	-17.93	-45.87	≤-37.93	PASS
		2452	Reference	-18.05	-18.05	---	PASS
			30~1000	-18.05	-65.47	≤-38.05	PASS
			1000~26500	-18.05	-46.05	≤-38.05	PASS

Test Graphs

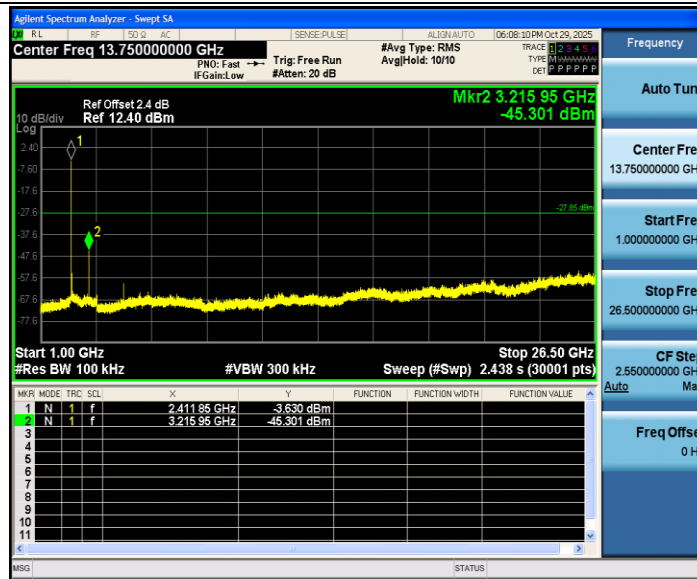
11B_Ant1_2412_0~Reference



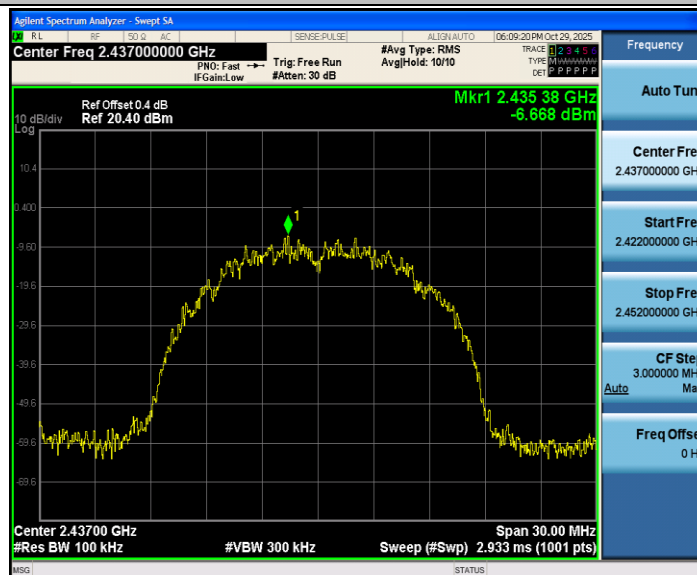
11B_Ant1_2412_30~1000



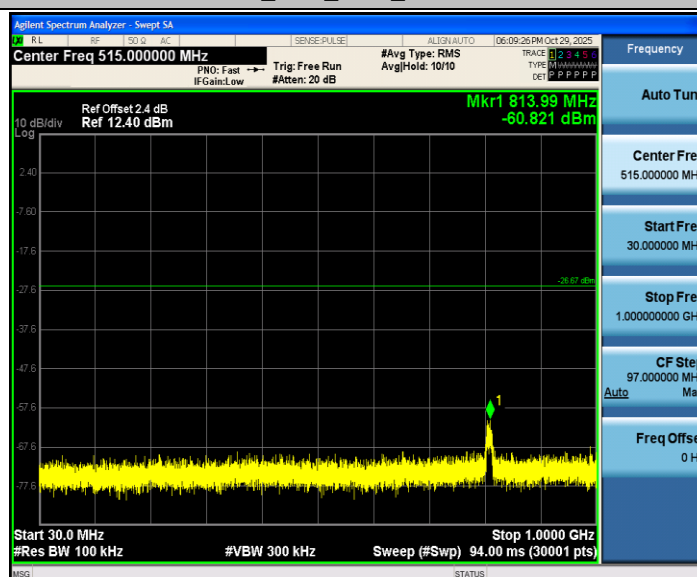
11B_Ant1_2412_1000~26500



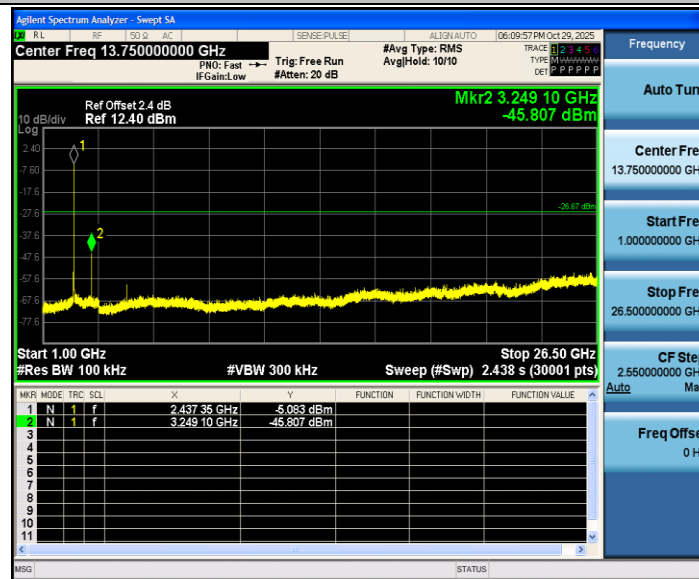
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



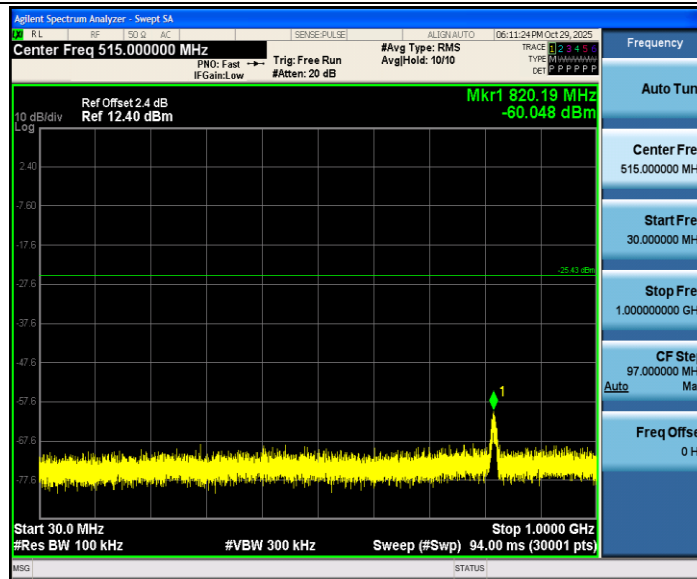
11B_Ant1_2437_1000~26500



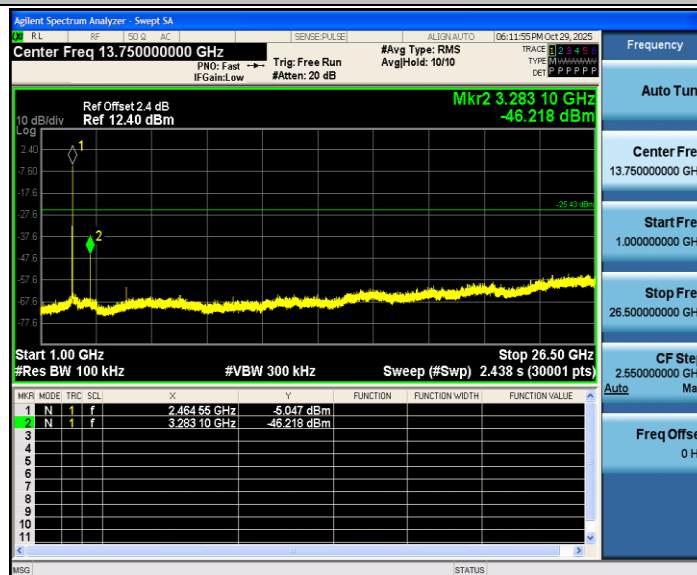
11B_Ant1_2462_0~Reference



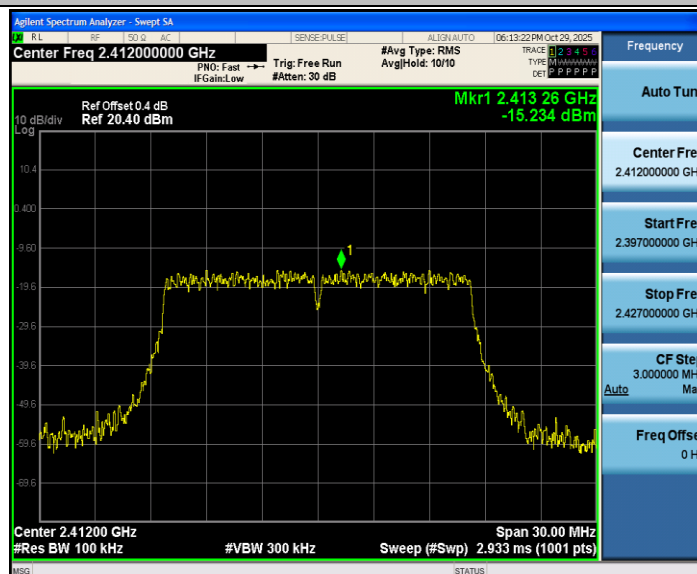
11B_Ant1_2462_30~1000



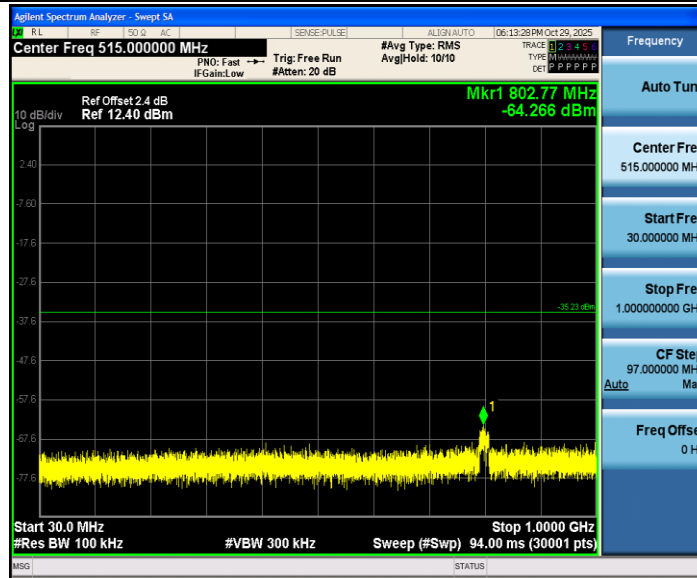
11B_Ant1_2462_1000~26500



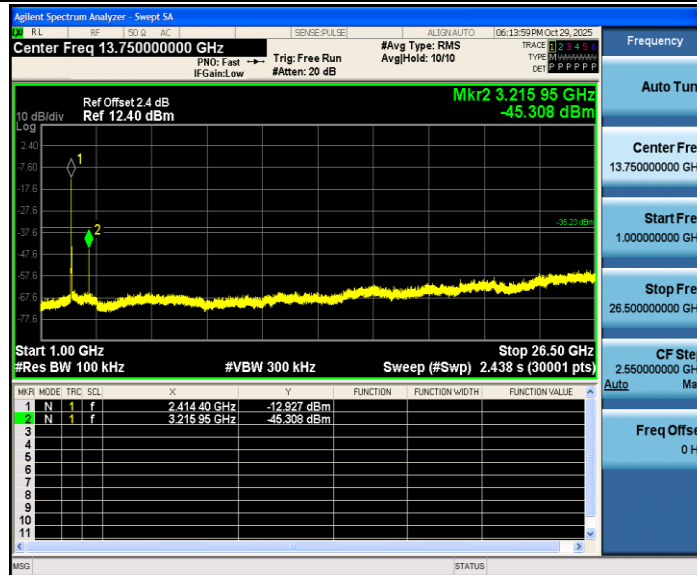
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



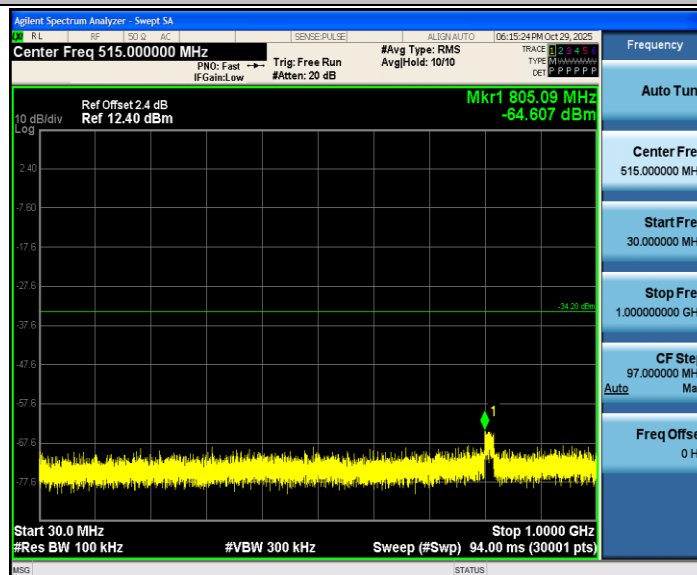
11G_Ant1_2412_1000~26500



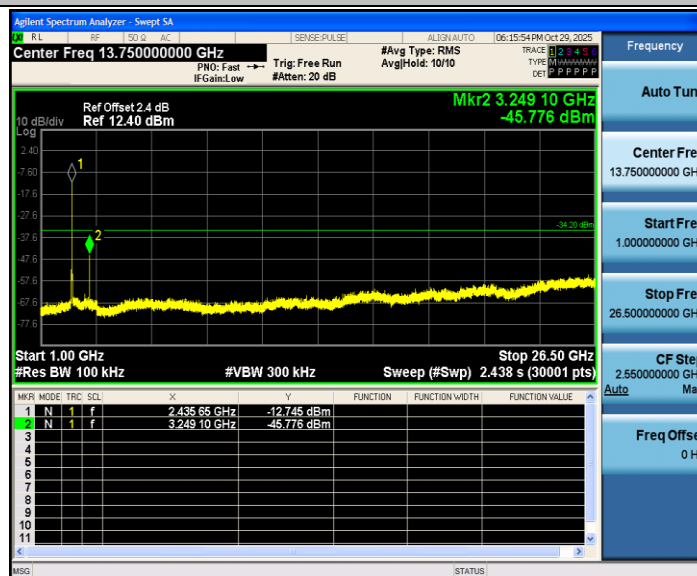
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



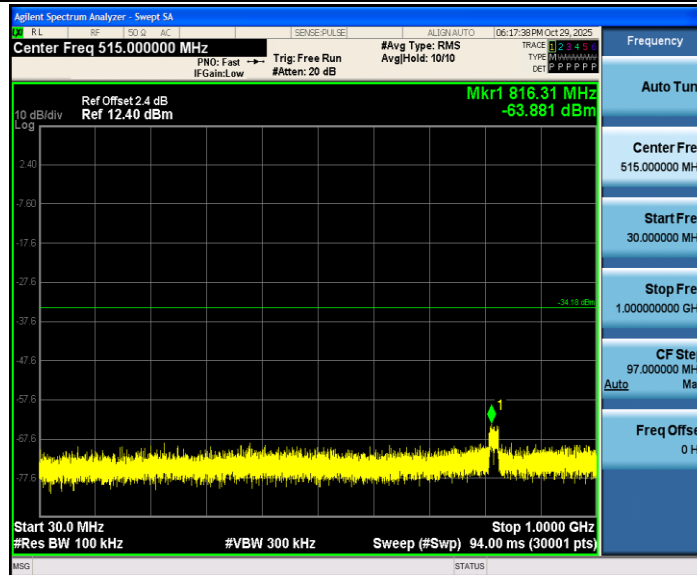
11G_Ant1_2437_1000~26500



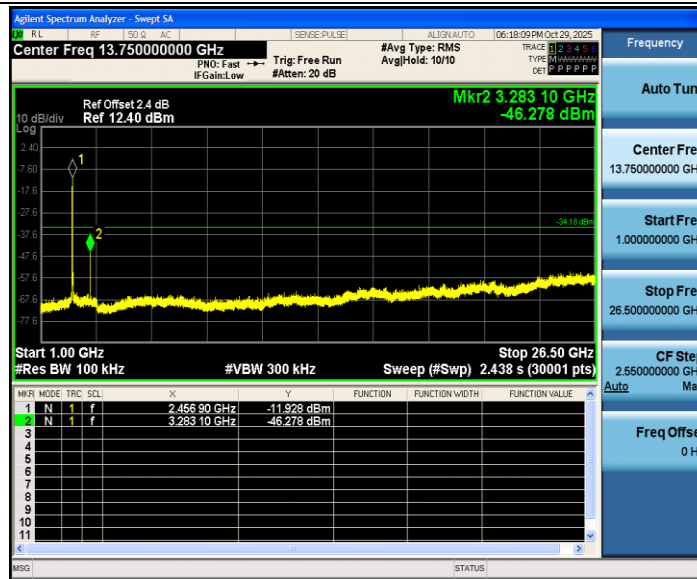
11G_Ant1_2462_0~Reference



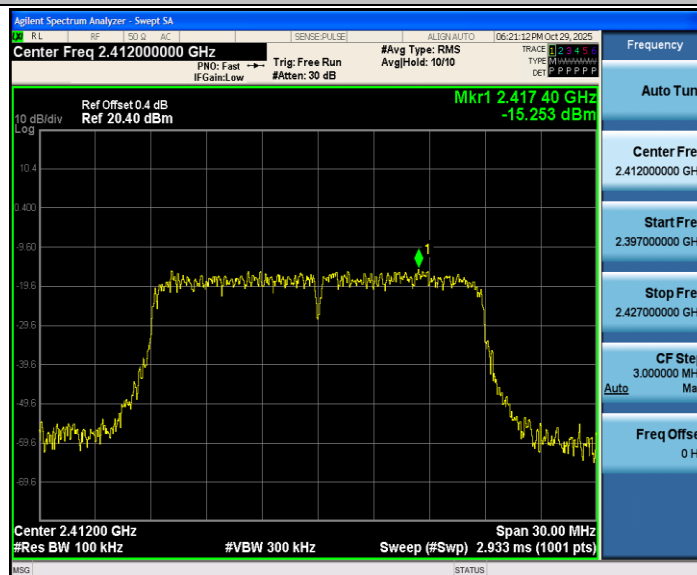
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

