

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BVSK-KWCP1

Company : Shenzhen Kaiwei Electronics Co., Ltd

EUT : CarPlay

Model Number : KWCP1

Report No. : CTA26032600702

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	10.240	2406.920	2417.160	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	15.640	2404.400	2420.040	0.5	PASS
		2437	15.640	2429.040	2444.680	0.5	PASS
		2462	15.400	2454.400	2469.800	0.5	PASS
11N20SISO	Ant1	2412	16.080	2404.320	2420.400	0.5	PASS
		2437	16.400	2429.040	2445.440	0.5	PASS
		2462	16.880	2453.400	2470.280	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.240	2439.920	0.5	PASS
		2437	35.520	2419.320	2454.840	0.5	PASS
		2452	35.520	2434.400	2469.920	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



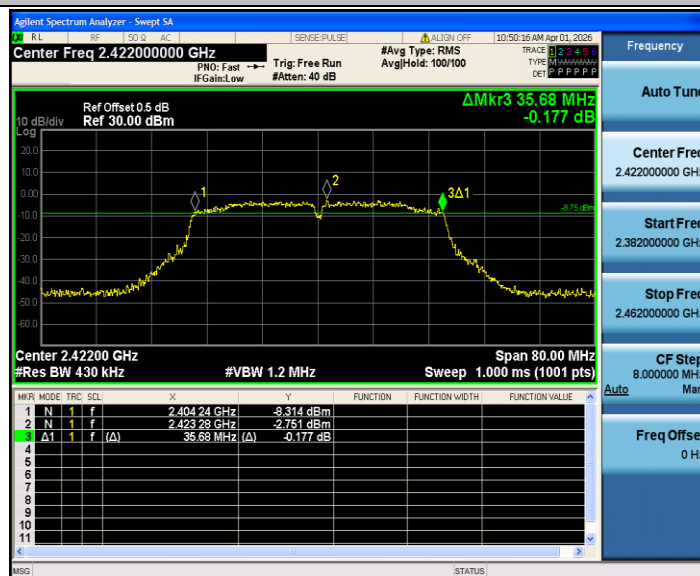
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



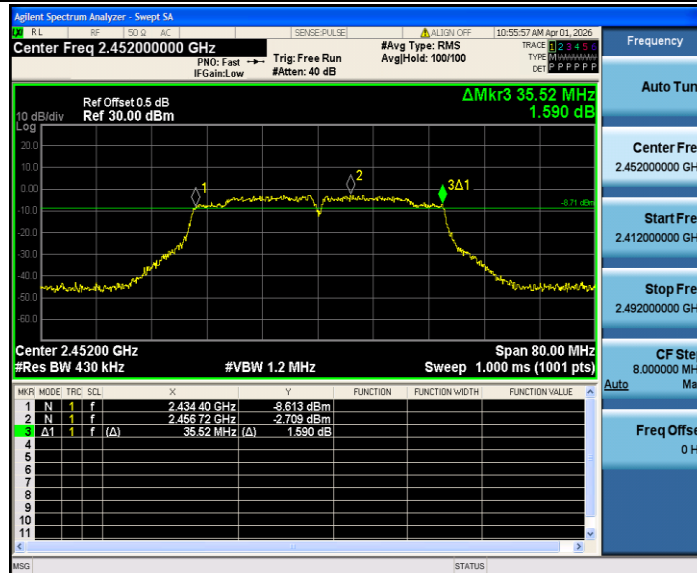
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



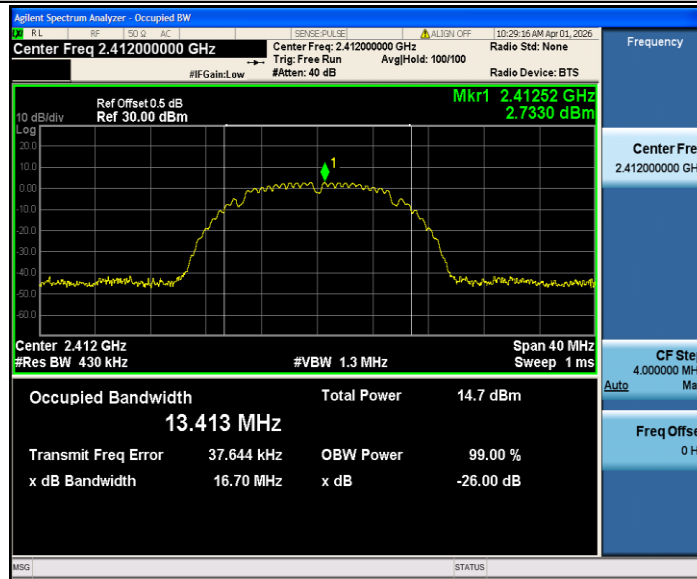
Appendix B: Occupied Channel Bandwidth

Test Result

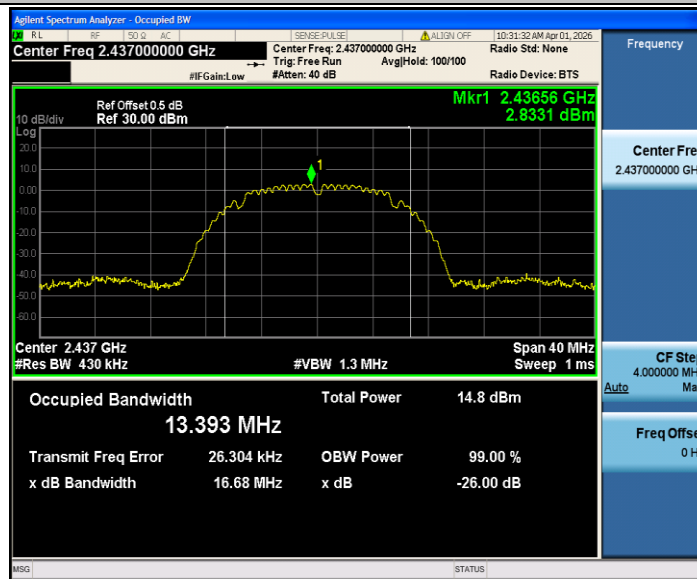
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.413	2405.3311	2418.7441	---	---
		2437	13.393	2430.3298	2443.7228	---	---
		2462	13.417	2455.2994	2468.7164	---	---
11G	Ant1	2412	16.800	2403.6740	2420.4740	---	---
		2437	16.773	2428.6729	2445.4459	---	---
		2462	16.818	2453.6402	2470.4582	---	---
11N20SISO	Ant1	2412	17.894	2403.0847	2420.9787	---	---
		2437	17.918	2428.0279	2445.9459	---	---
		2462	17.891	2453.0619	2470.9529	---	---
11N40SISO	Ant1	2422	36.009	2404.0691	2440.0781	---	---
		2437	36.053	2419.0661	2455.1191	---	---
		2452	36.071	2434.0413	2470.1123	---	---

Test Graphs

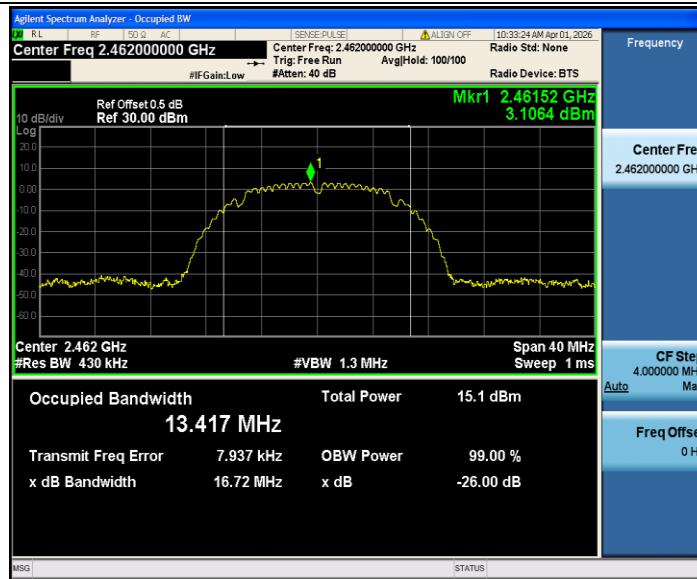
11B_Ant1_2412



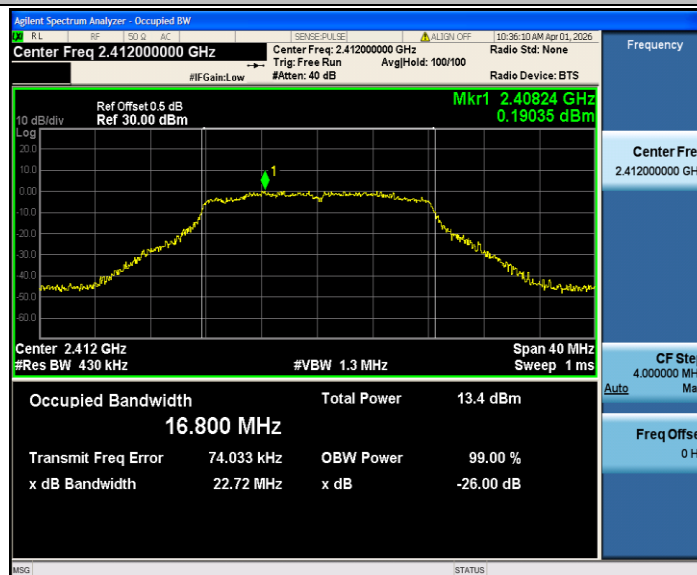
11B_Ant1_2437



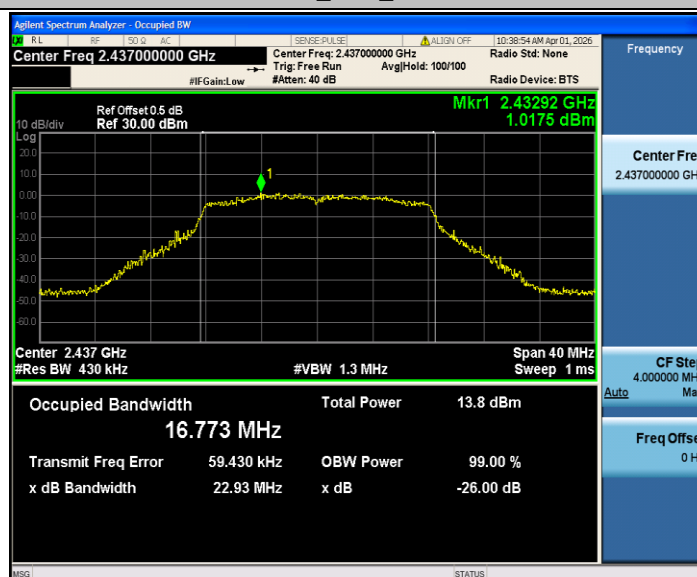
11B_Ant1_2462



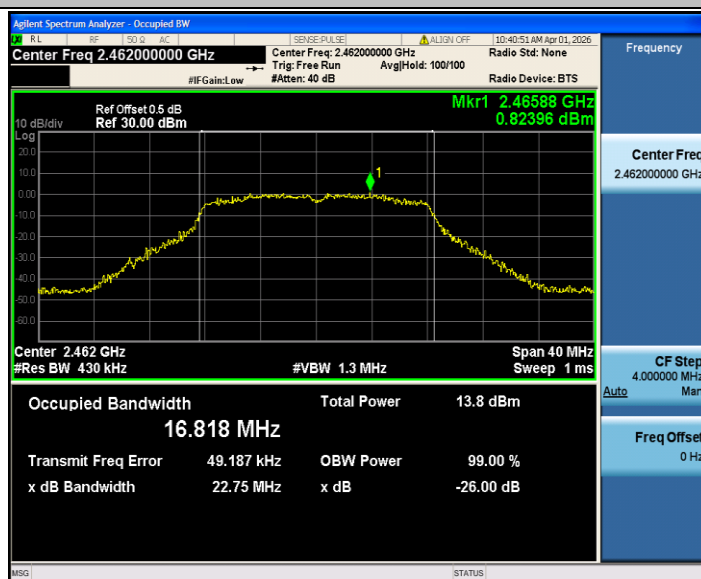
11G_Ant1_2412



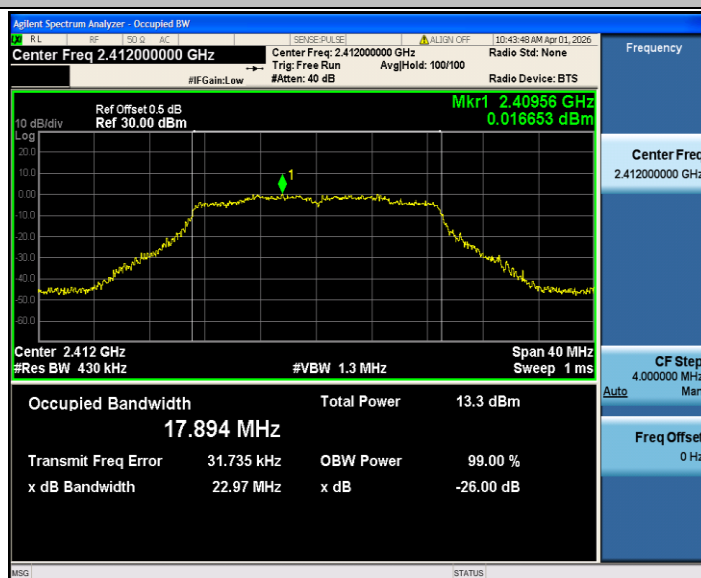
11G_Ant1_2437



11G_Ant1_2462



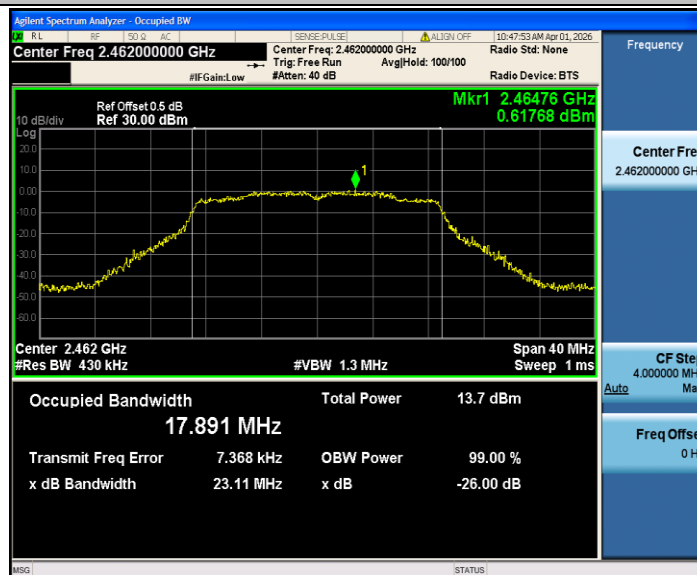
11N20SISO_Ant1_2412



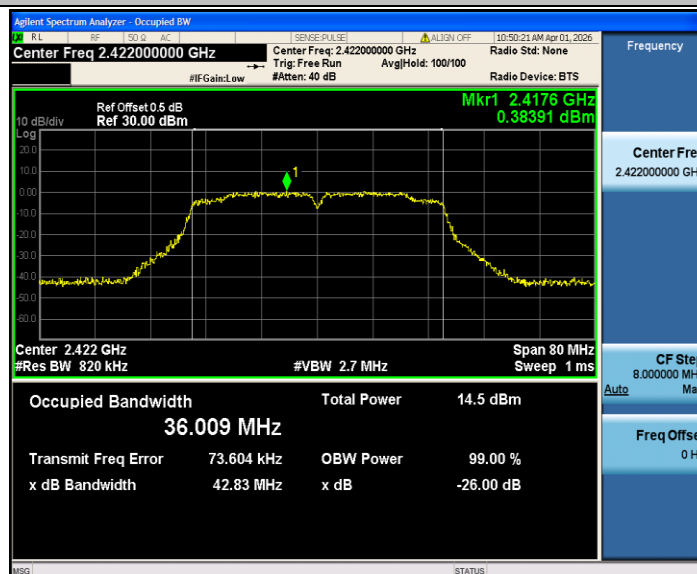
11N20SISO_Ant1_2437



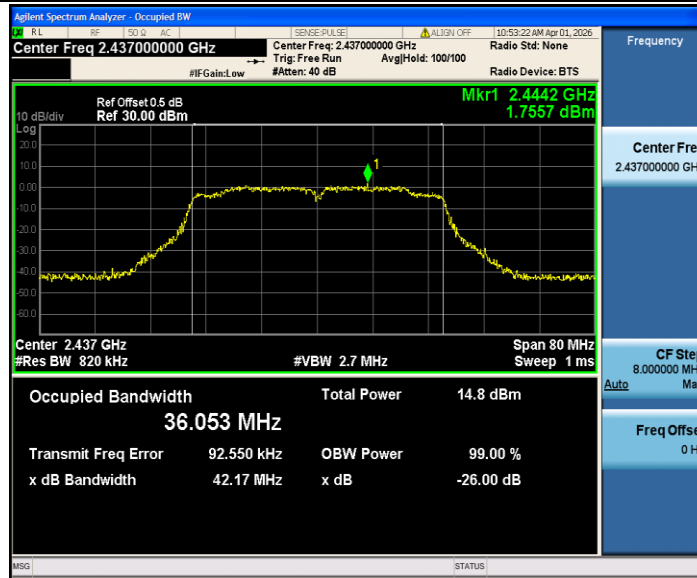
11N20SISO_Ant1_2462



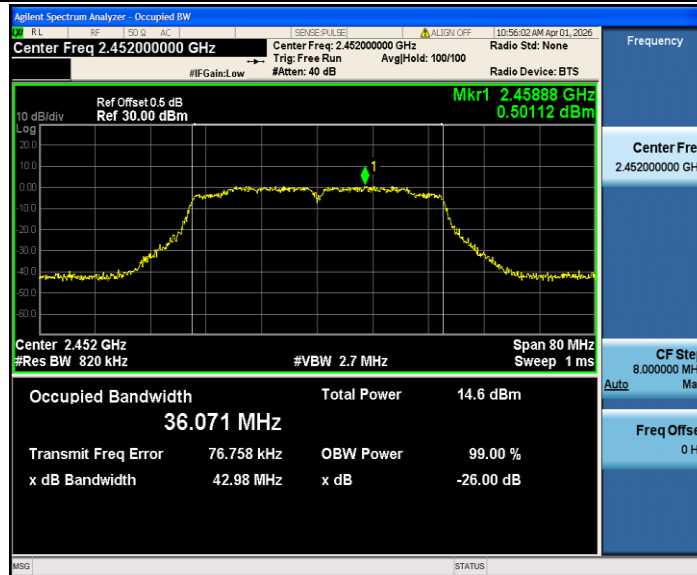
11N40SISO_Ant1_2422



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	14.45	≤30.00	PASS
		2437	14.59	≤30.00	PASS
		2462	14.74	≤30.00	PASS
11G	Ant1	2412	14.42	≤30.00	PASS
		2437	14.63	≤30.00	PASS
		2462	14.64	≤30.00	PASS
11N20SISO	Ant1	2412	14.20	≤30.00	PASS
		2437	14.46	≤30.00	PASS
		2462	14.62	≤30.00	PASS
11N40SISO	Ant1	2422	14.61	≤30.00	PASS
		2437	14.94	≤30.00	PASS
		2452	14.84	≤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	-11.94	≤8.00	PASS
		2437	-11.22	≤8.00	PASS
		2462	-10.86	≤8.00	PASS
11G	Ant1	2412	-18.19	≤8.00	PASS
		2437	-17.06	≤8.00	PASS
		2462	-16.56	≤8.00	PASS
11N20SISO	Ant1	2412	-17.42	≤8.00	PASS
		2437	-16.89	≤8.00	PASS
		2462	-16.82	≤8.00	PASS
11N40SISO	Ant1	2422	-20.29	≤8.00	PASS
		2437	-19.59	≤8.00	PASS
		2452	-18.79	≤8.00	PASS

Test Graphs

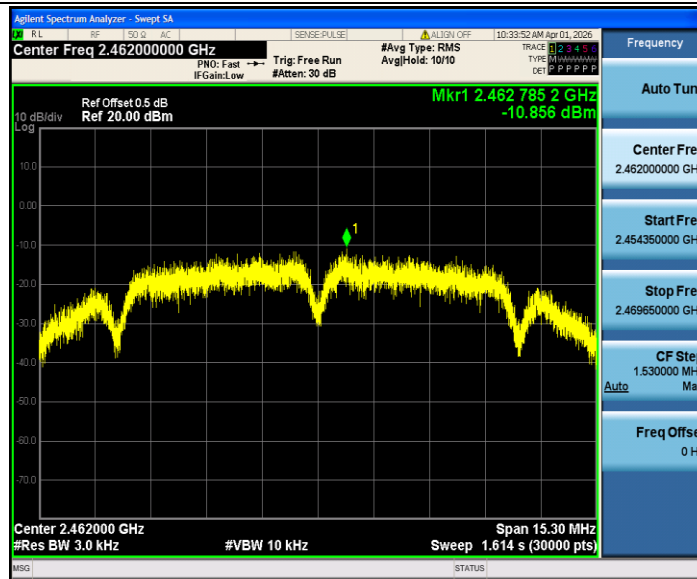
11B_Ant1_2412



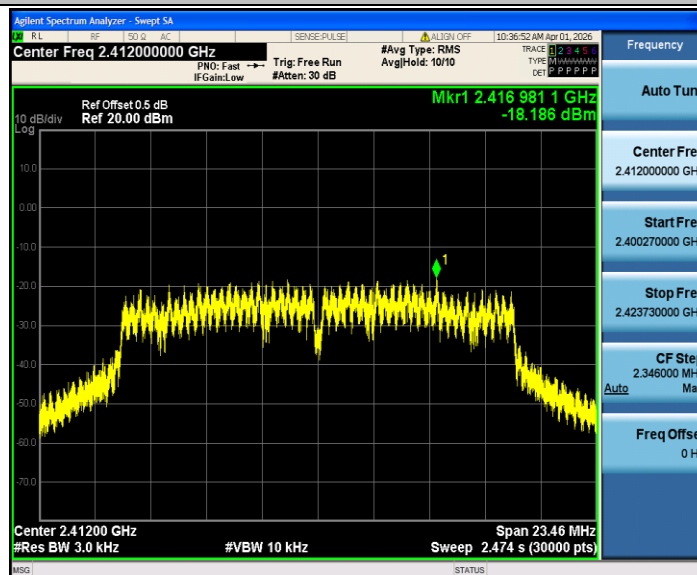
11B_Ant1_2437



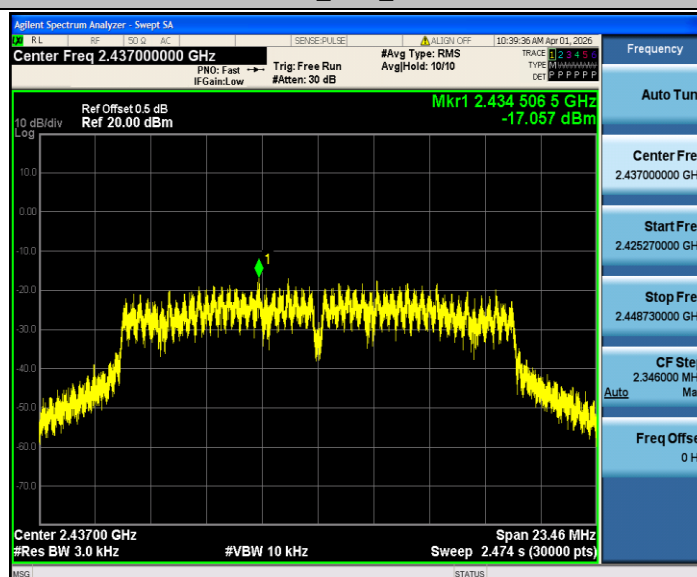
11B_Ant1_2462



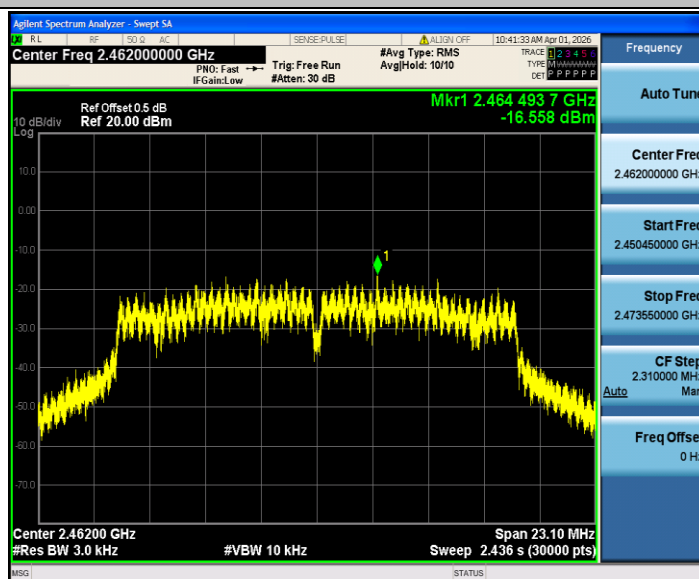
11G_Ant1_2412



11G_Ant1_2437



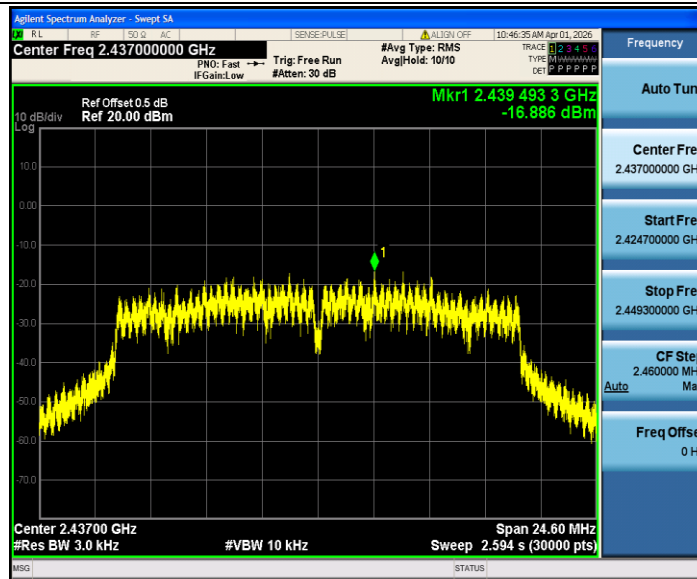
11G_Ant1_2462



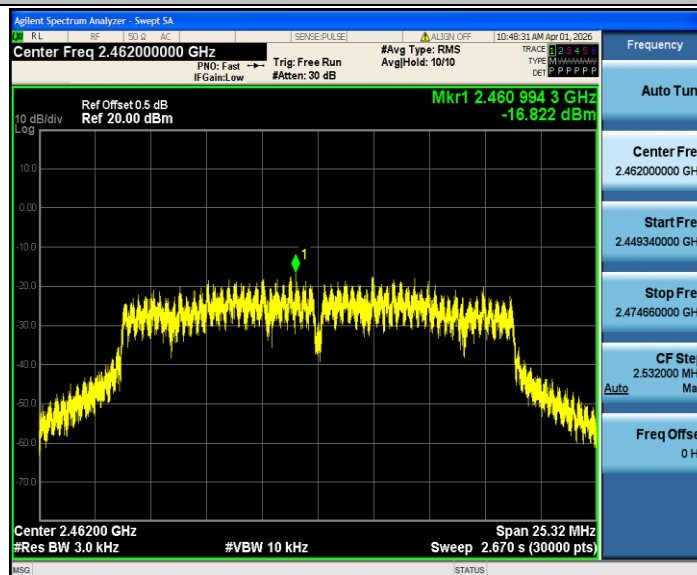
11N20SISO_Ant1_2412



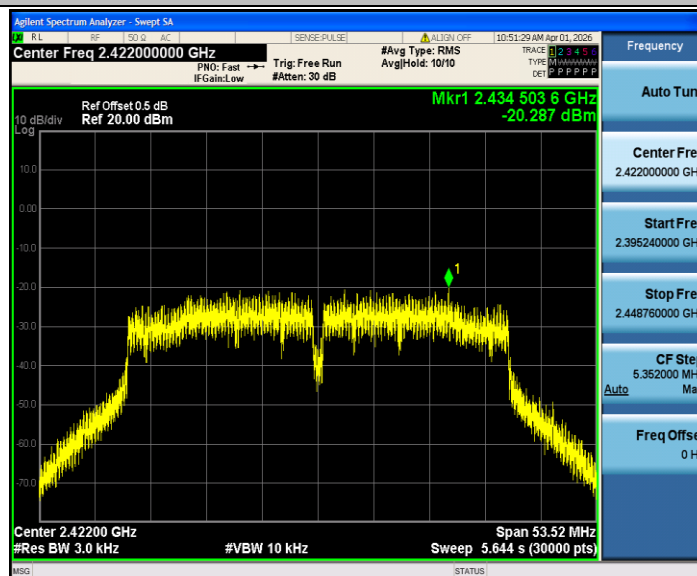
11N20SISO_Ant1_2437



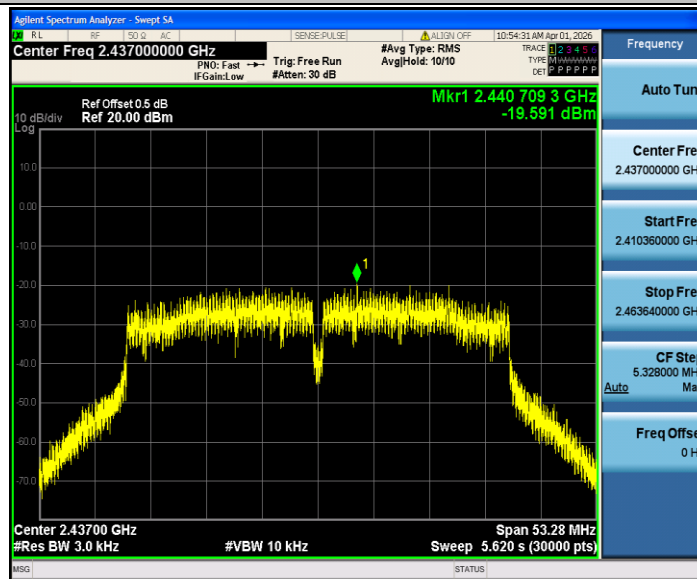
11N20SISO_Ant1_2462



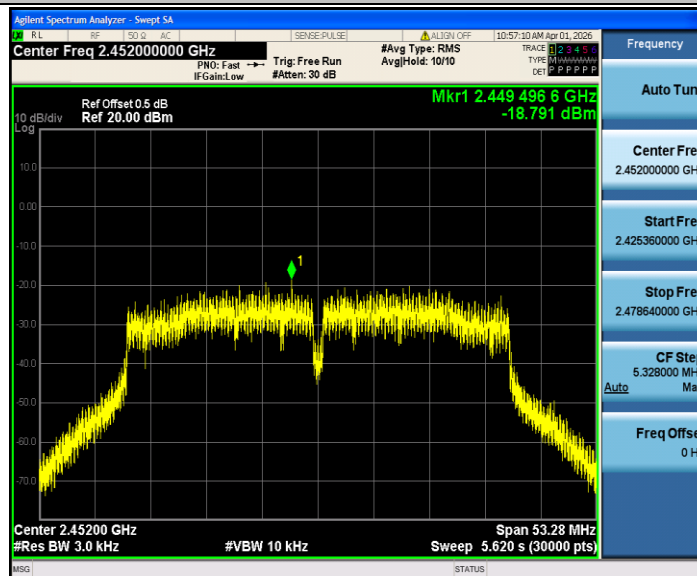
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



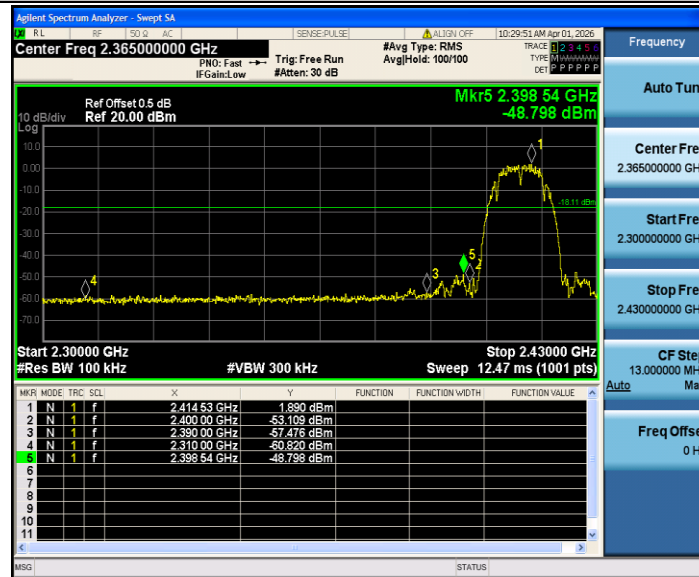
Appendix E: Band edge measurements

Test Result

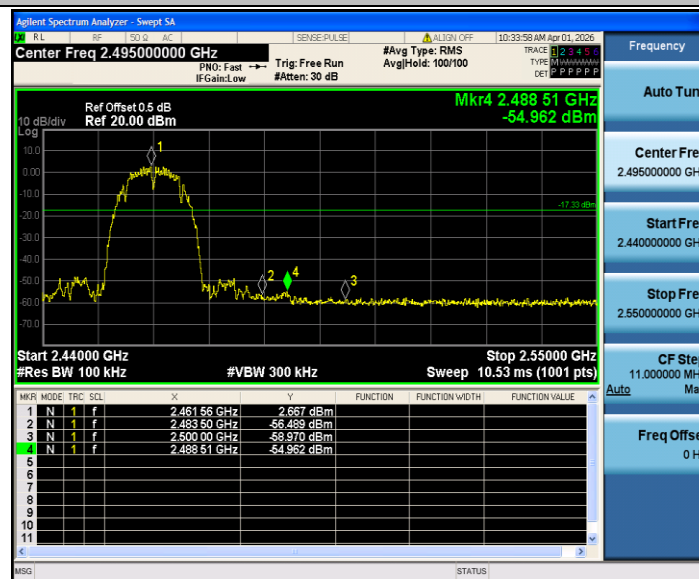
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.89	-48.8	≤-18.11	PASS
		High	2462	2.67	-54.96	≤-17.33	PASS
11G	Ant1	Low	2412	-2.10	-33.89	≤-22.1	PASS
		High	2462	-1.90	-47.37	≤-21.9	PASS
11N20SISO	Ant1	Low	2412	-2.32	-33.47	≤-22.32	PASS
		High	2462	-1.83	-50.31	≤-21.83	PASS
11N40SISO	Ant1	Low	2422	-5.52	-33.14	≤-25.52	PASS
		High	2452	-5.16	-56.67	≤-25.16	PASS

Test Graphs

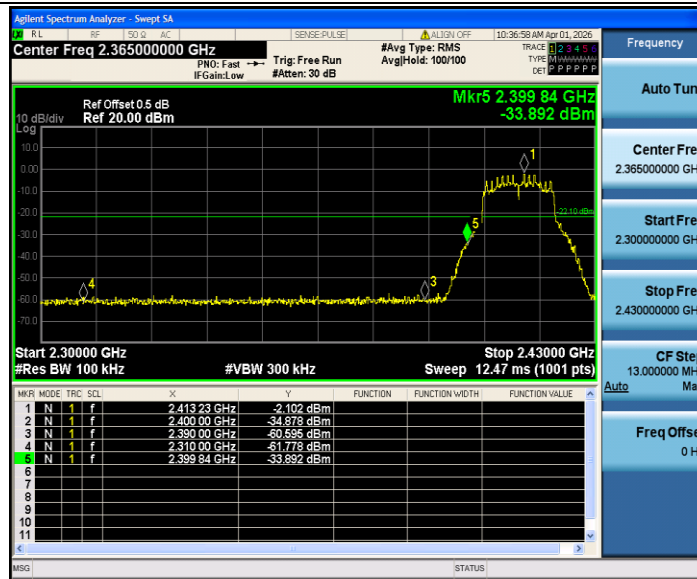
11B_Ant1_Low_2412



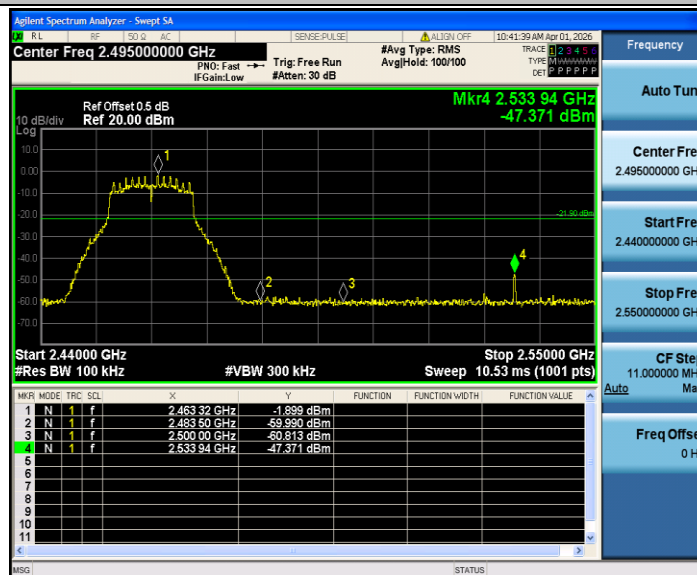
11B_Ant1_High_2462



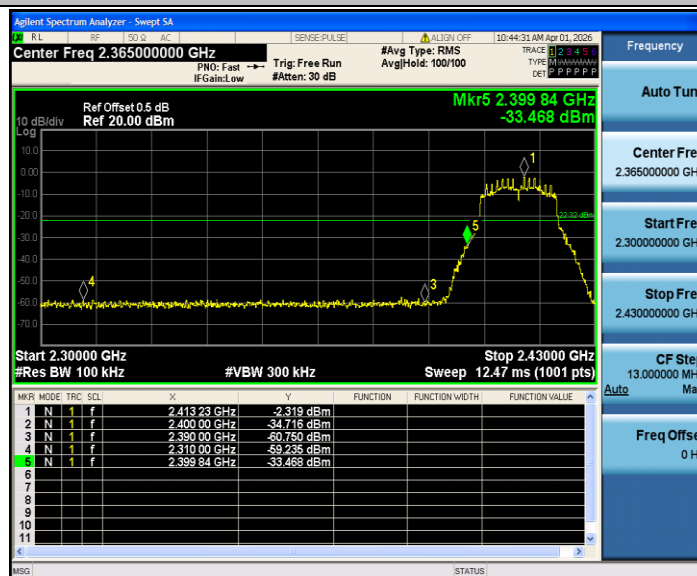
11G_Ant1_Low_2412



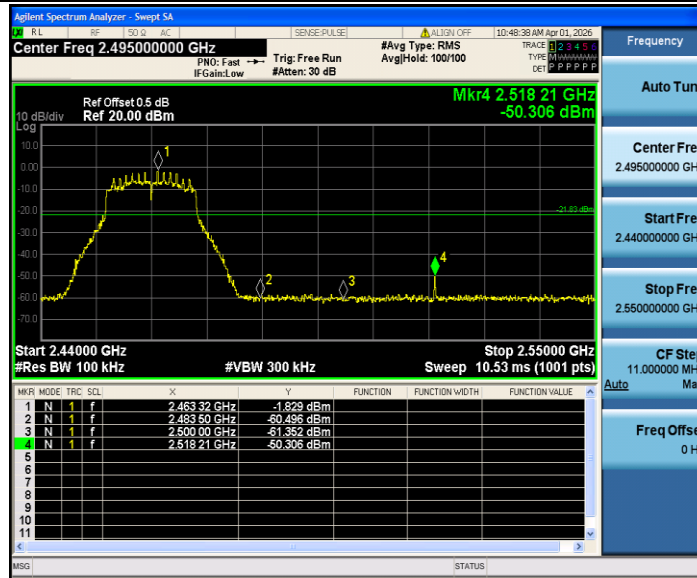
11G_Ant1_High_2462



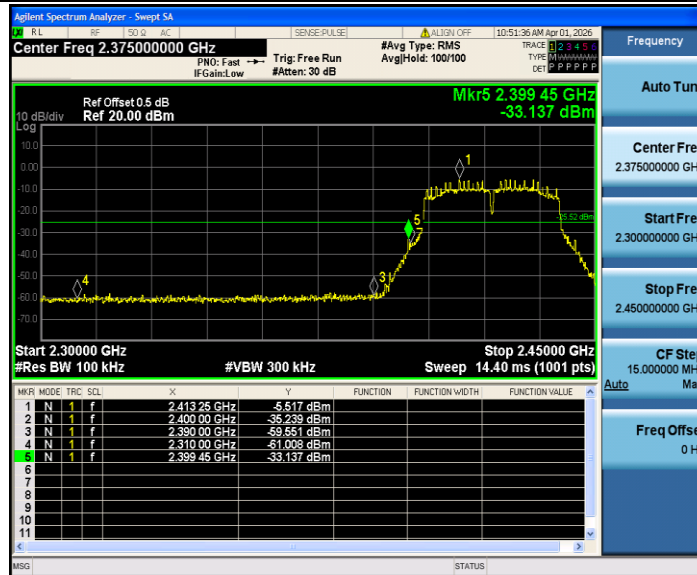
11N20SISO_Ant1_Low_2412



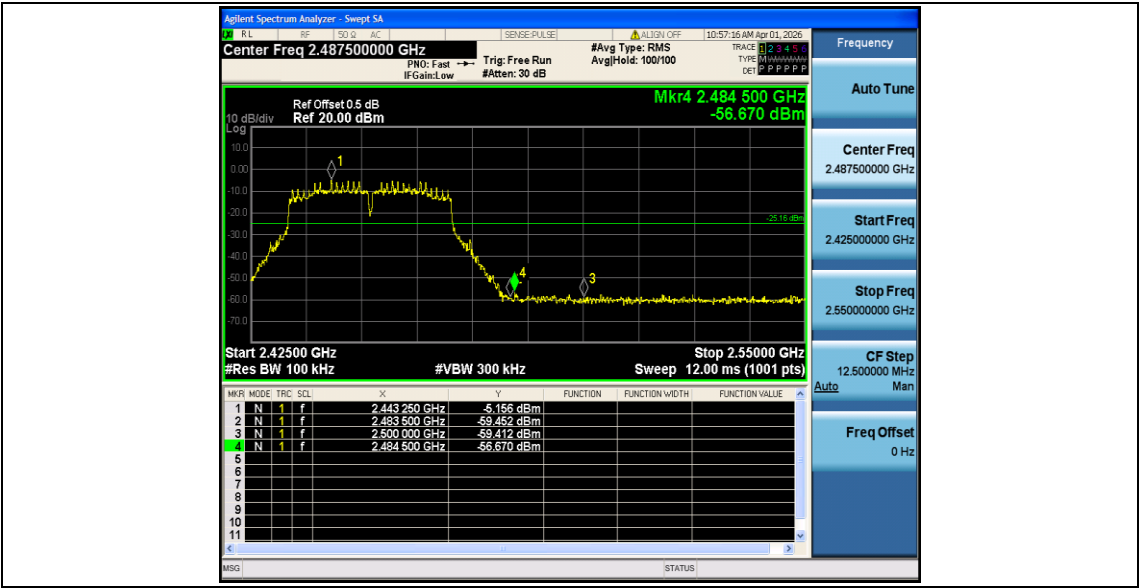
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

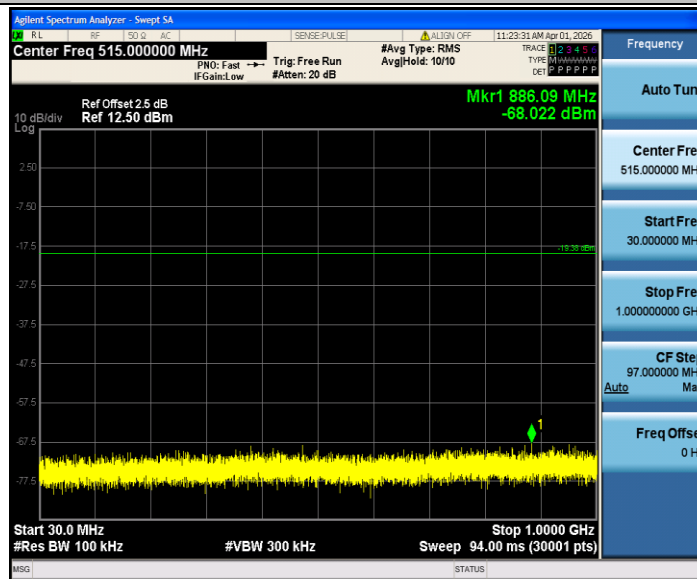
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-68.02	≤-19.38	PASS
			1000~26500	0.62	-55.12	≤-19.38	PASS
		2437	Reference	2.29	2.29	---	PASS
			30~1000	2.29	-67.51	≤-17.71	PASS
			1000~26500	2.29	-55.46	≤-17.71	PASS
		2462	Reference	2.36	2.36	---	PASS
			30~1000	2.36	-67.45	≤-17.64	PASS
			1000~26500	2.36	-55.56	≤-17.64	PASS
11G	Ant1	2412	Reference	-3.24	-3.24	---	PASS
			30~1000	-3.24	-67.54	≤-23.24	PASS
			1000~26500	-3.24	-55.79	≤-23.24	PASS
		2437	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-67.84	≤-22.49	PASS
			1000~26500	-2.49	-54.93	≤-22.49	PASS
		2462	Reference	-1.83	-1.83	---	PASS
			30~1000	-1.83	-66.07	≤-21.83	PASS
			1000~26500	-1.83	-55.75	≤-21.83	PASS
11N20SISO	Ant1	2412	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-67.58	≤-22.47	PASS
			1000~26500	-2.47	-55.88	≤-22.47	PASS
		2437	Reference	-2.67	-2.67	---	PASS
			30~1000	-2.67	-67.91	≤-22.67	PASS
			1000~26500	-2.67	-54.81	≤-22.67	PASS
		2462	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-67.74	≤-22.28	PASS
			1000~26500	-2.28	-55.33	≤-22.28	PASS
11N40SISO	Ant1	2422	Reference	-6.30	-6.30	---	PASS
			30~1000	-6.30	-57.55	≤-26.3	PASS
			1000~26500	-6.30	-54.96	≤-26.3	PASS
		2437	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-66.89	≤-25.13	PASS
			1000~26500	-5.13	-55.36	≤-25.13	PASS
		2452	Reference	-5.25	-5.25	---	PASS
			30~1000	-5.25	-51.41	≤-25.25	PASS
			1000~26500	-5.25	-55.4	≤-25.25	PASS

Test Graphs

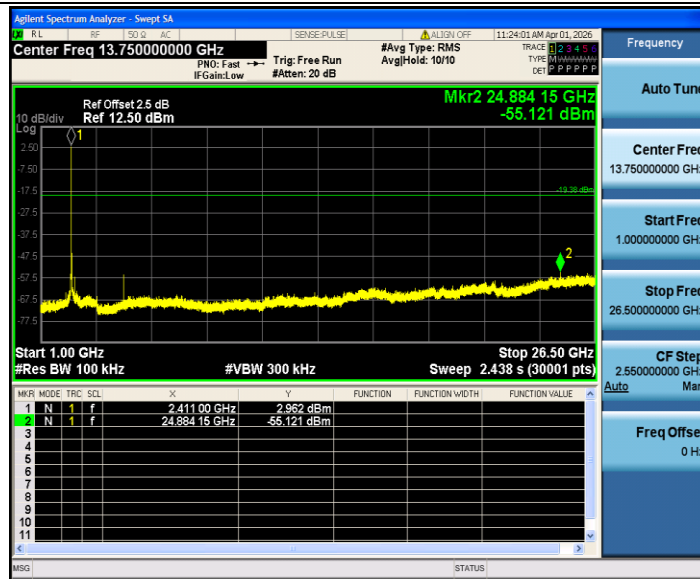
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



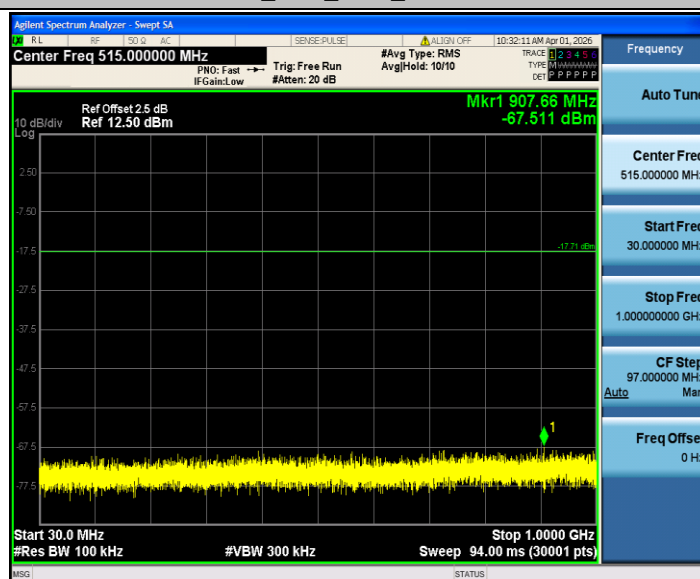
11B_Ant1_2412_1000~26500



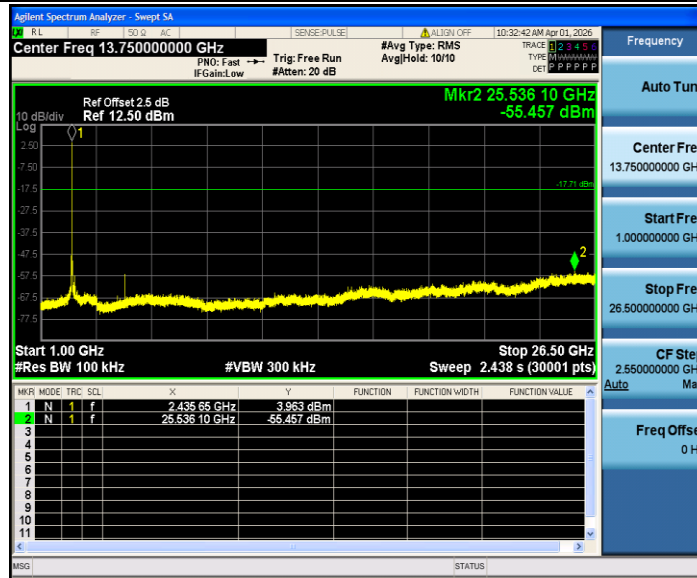
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



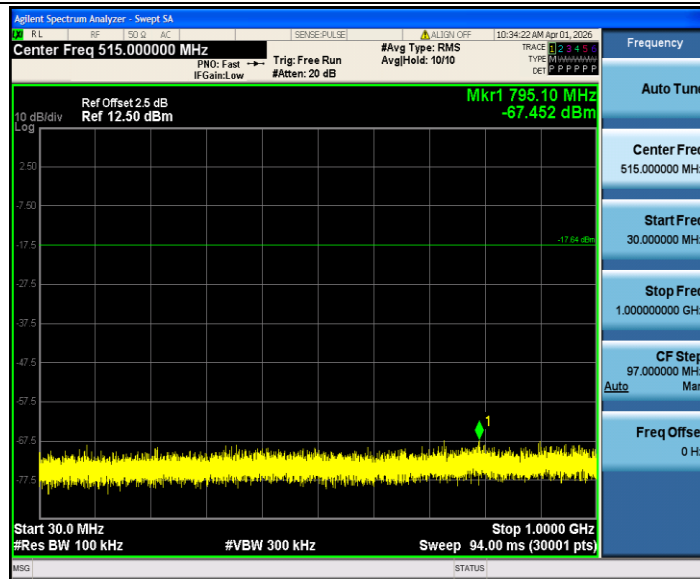
11B_Ant1_2437_1000~26500



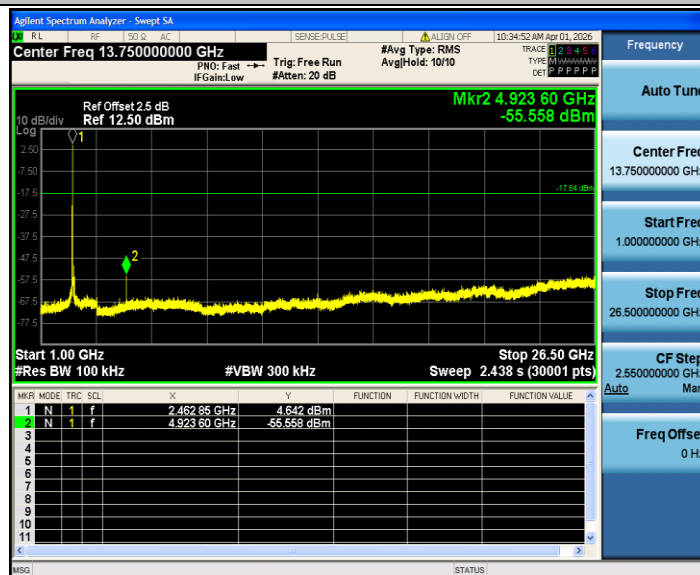
11B_Ant1_2462_0~Reference



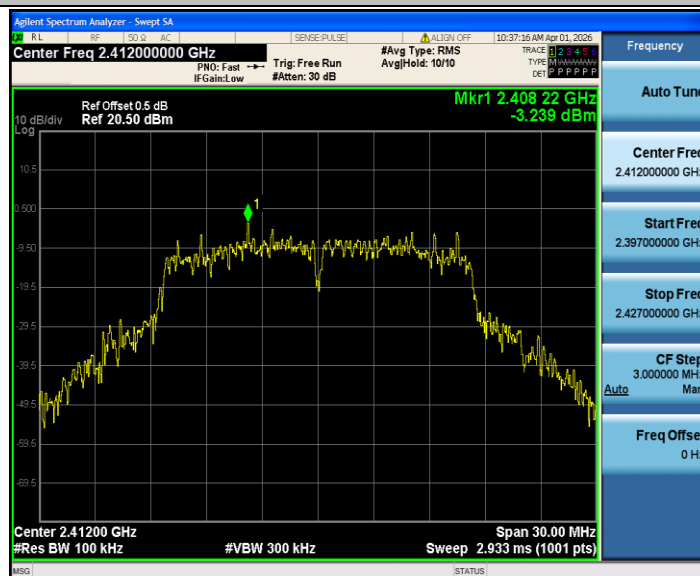
11B_Ant1_2462_30~1000



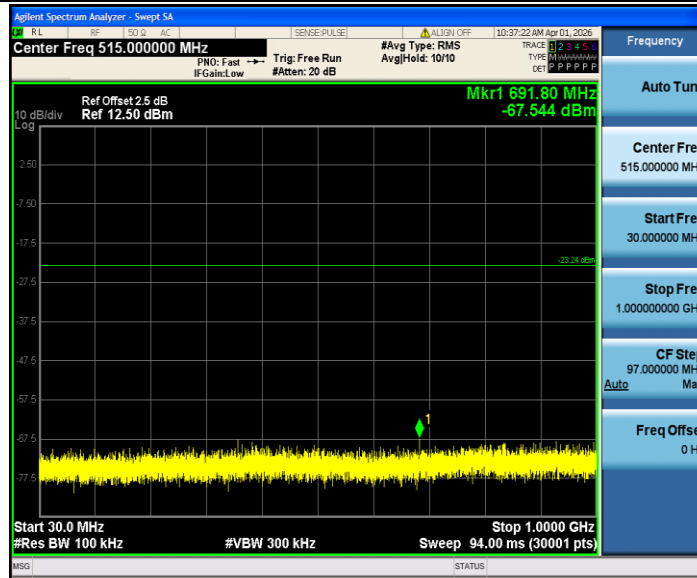
11B_Ant1_2462_1000~26500



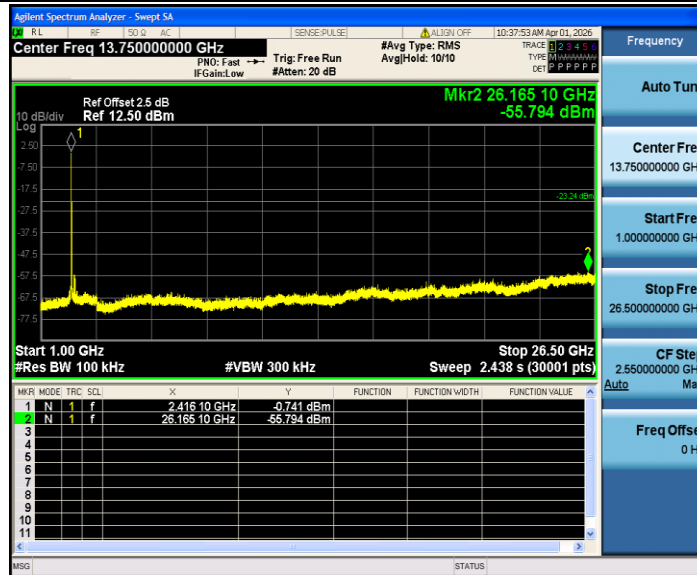
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



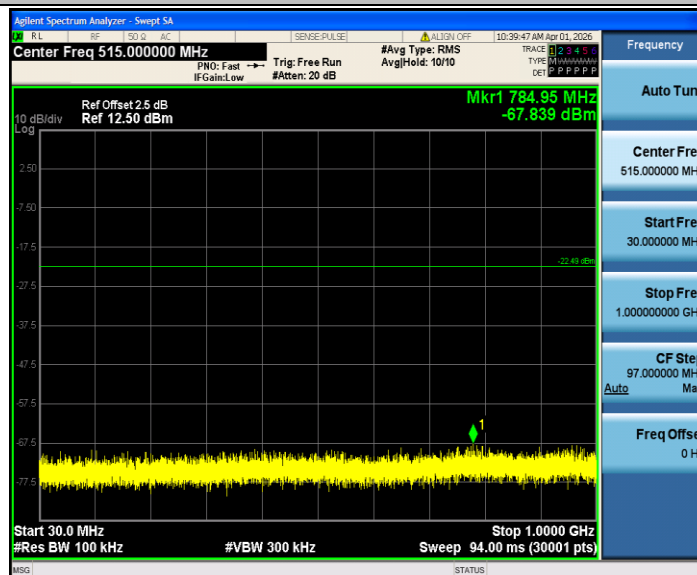
11G_Ant1_2412_1000~26500



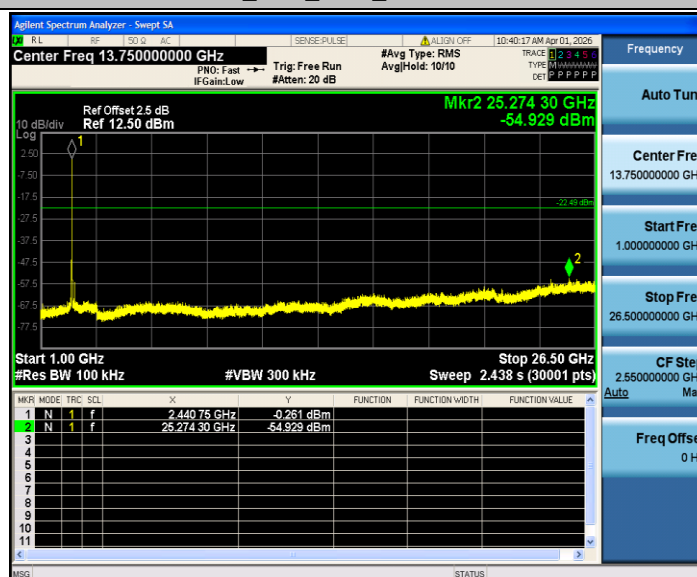
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



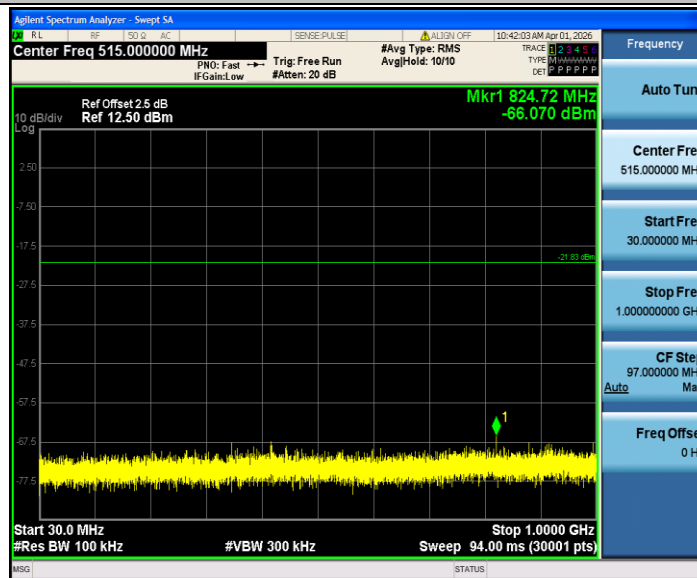
11G_Ant1_2437_1000~26500



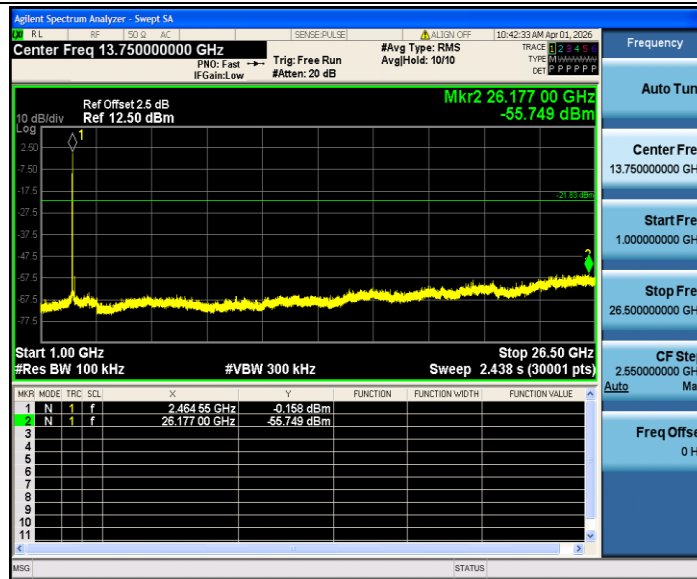
11G_Ant1_2462_0~Reference



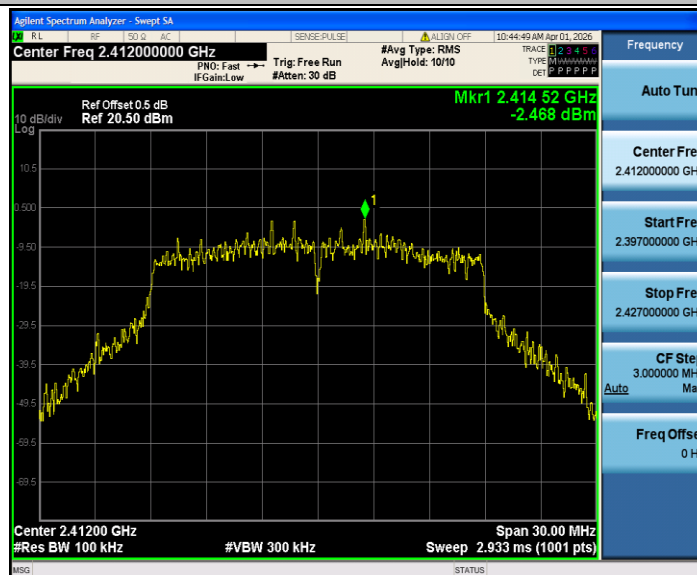
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

