

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BM2F-XC-403-V02

Company : Dongguan Alaike Electronics Co., LTD

EUT : Four-Channel Driving Recorder

Model Number : XC-403-V02

Report No. : CTA25120300201

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	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.760	2404.000	2419.760	0.5	PASS
		2437	15.680	2429.080	2444.760	0.5	PASS
		2462	15.840	2454.120	2469.960	0.5	PASS
11N20SISO	Ant1	2412	17.000	2403.560	2420.560	0.5	PASS
		2437	17.320	2428.440	2445.760	0.5	PASS
		2462	17.240	2453.400	2470.640	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



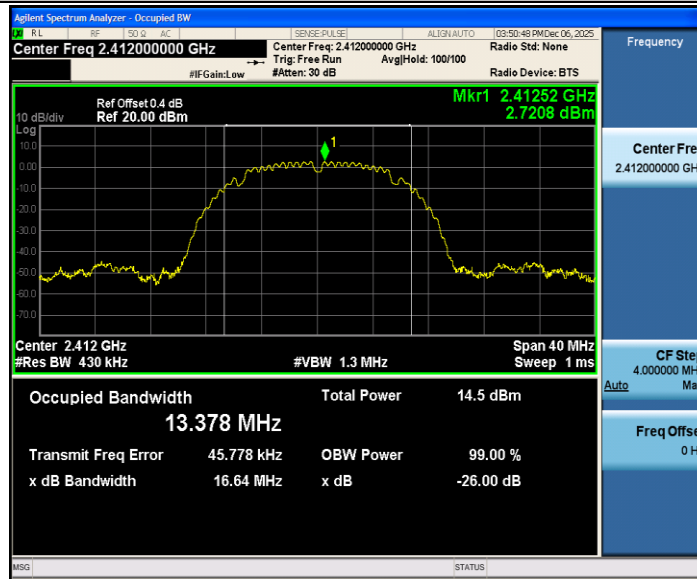
Appendix B: Occupied Channel Bandwidth

Test Result

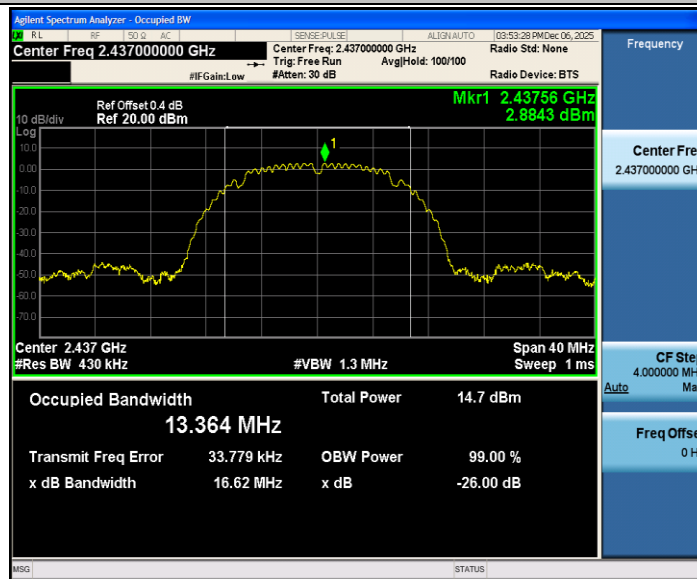
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.378	2405.3568	2418.7348	---	---
		2437	13.364	2430.3518	2443.7158	---	---
		2462	13.375	2455.3307	2468.7057	---	---
11G	Ant1	2412	16.767	2403.6725	2420.4395	---	---
		2437	16.710	2428.6817	2445.3917	---	---
		2462	16.718	2453.7156	2470.4336	---	---
11N20SISO	Ant1	2412	17.822	2403.1243	2420.9463	---	---
		2437	17.818	2428.1169	2445.9349	---	---
		2462	17.841	2453.1003	2470.9413	---	---

Test Graphs

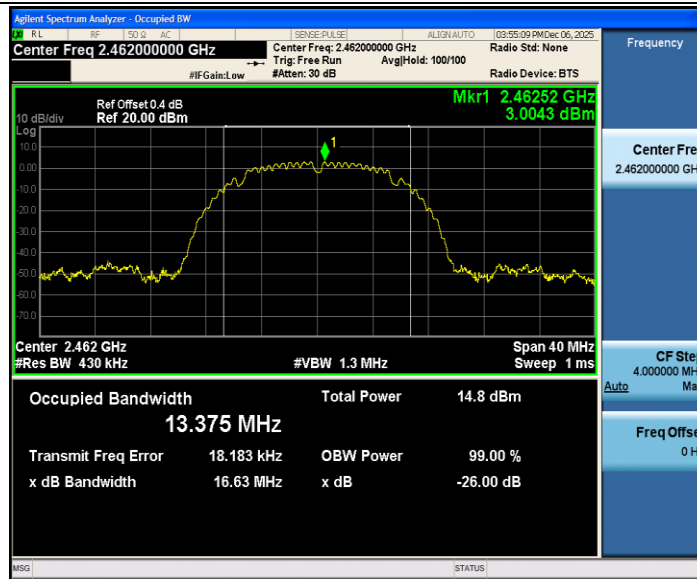
11B_Ant1_2412



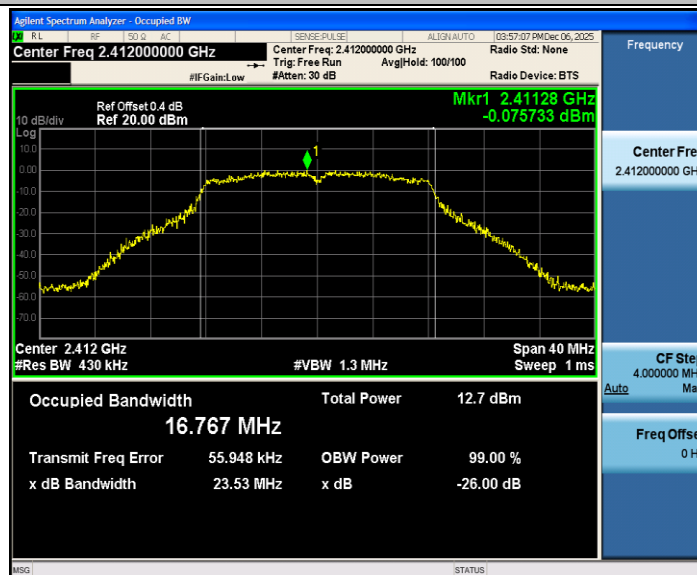
11B_Ant1_2437



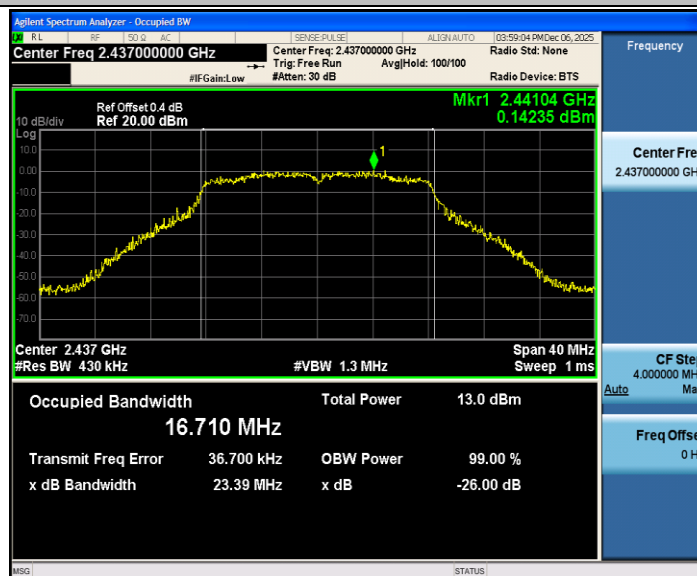
11B_Ant1_2462



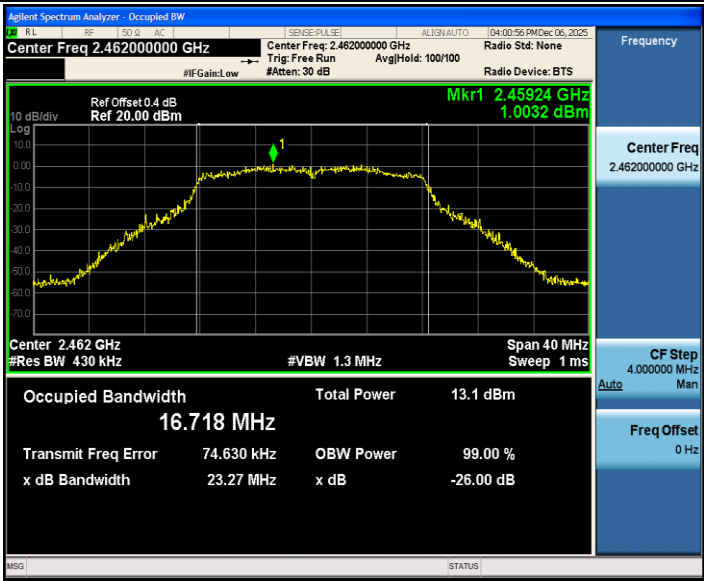
11G_Ant1_2412



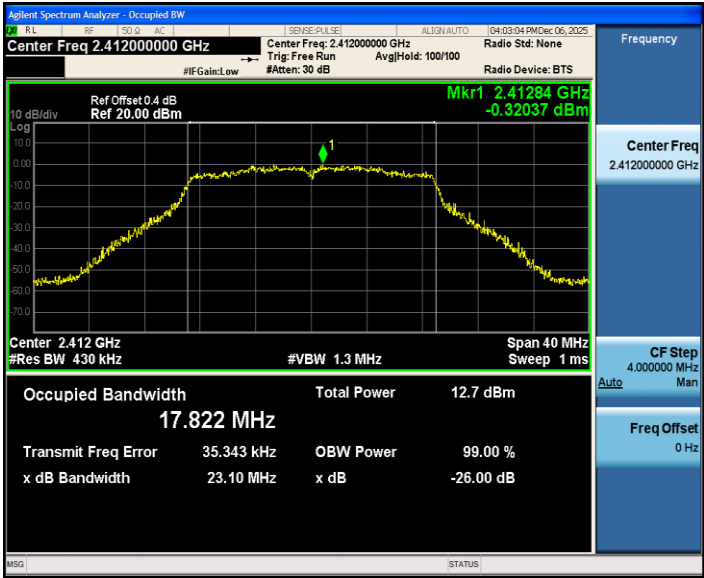
11G_Ant1_2437



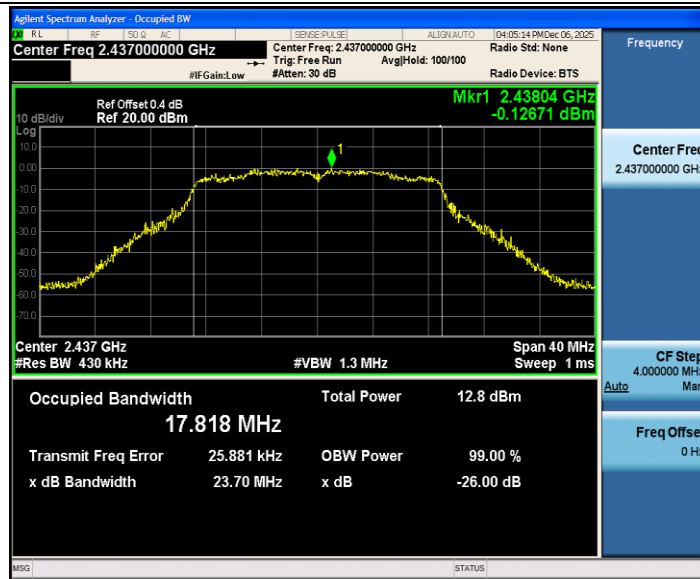
11G_Ant1_2462



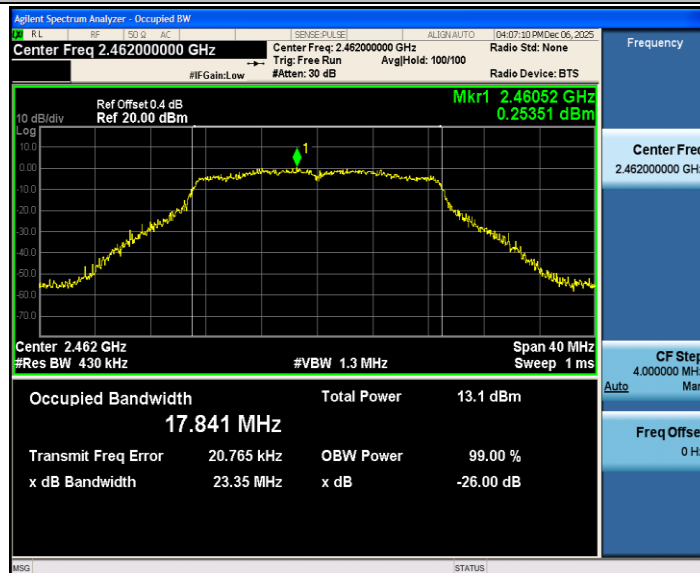
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.31	≤30.00	PASS
		2437	14.56	≤30.00	PASS
		2462	14.75	≤30.00	PASS
11G	Ant1	2412	13.36	≤30.00	PASS
		2437	13.47	≤30.00	PASS
		2462	13.67	≤30.00	PASS
11N20SISO	Ant1	2412	13.33	≤30.00	PASS
		2437	13.48	≤30.00	PASS
		2462	13.65	≤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	-11.32	≤8.00	PASS
		2437	-11.68	≤8.00	PASS
		2462	-11.21	≤8.00	PASS
11G	Ant1	2412	-18.20	≤8.00	PASS
		2437	-16.58	≤8.00	PASS
		2462	-17.40	≤8.00	PASS
11N20SISO	Ant1	2412	-16.45	≤8.00	PASS
		2437	-17.37	≤8.00	PASS
		2462	-15.65	≤8.00	PASS

Test Graphs

11B_Ant1_2412



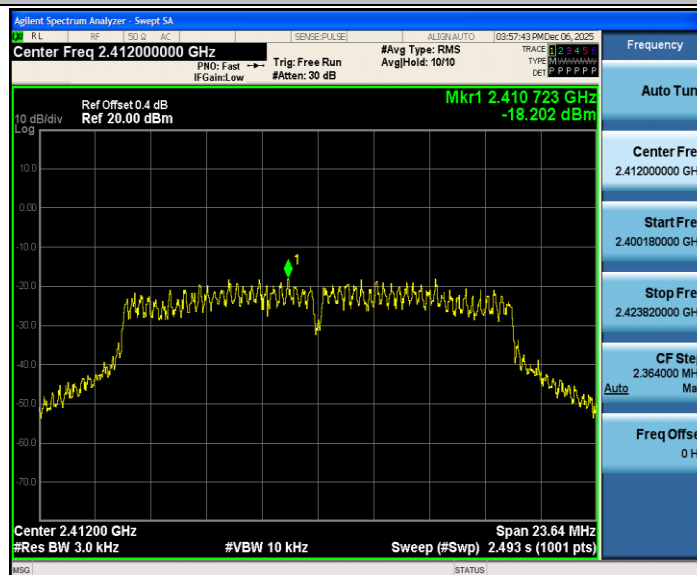
11B_Ant1_2437



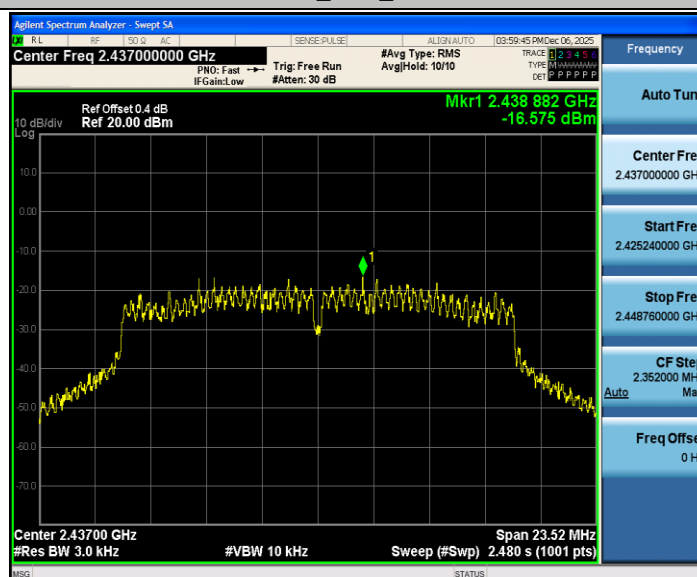
11B_Ant1_2462



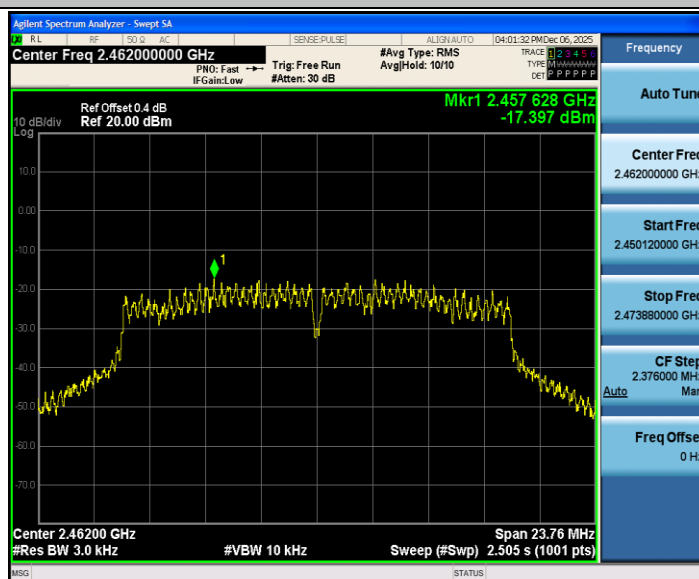
11G_Ant1_2412



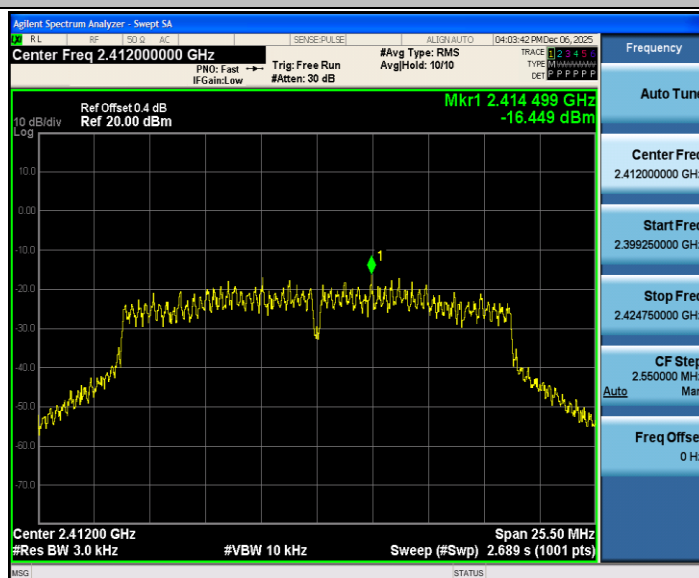
11G_Ant1_2437



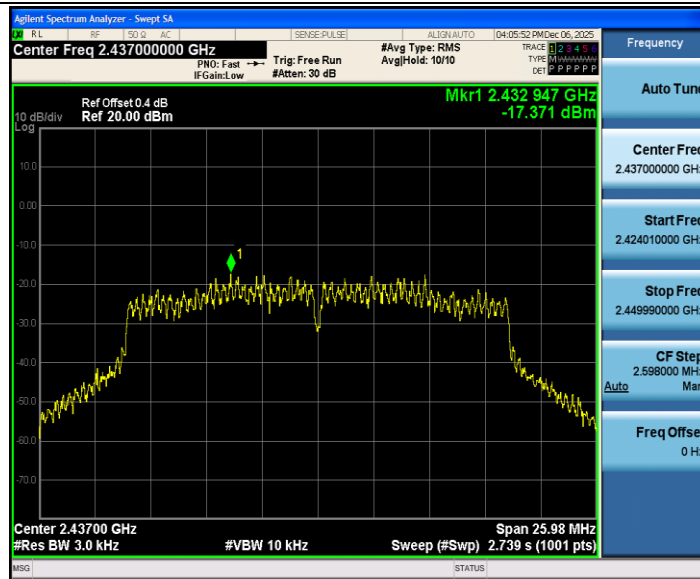
11G_Ant1_2462



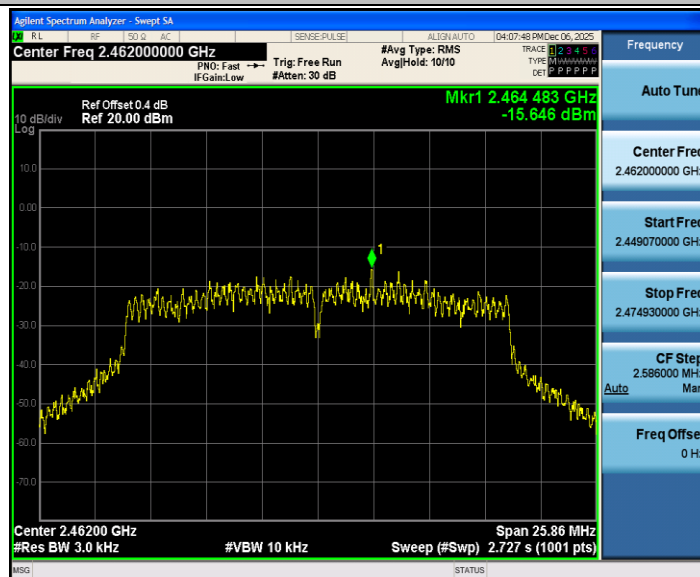
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



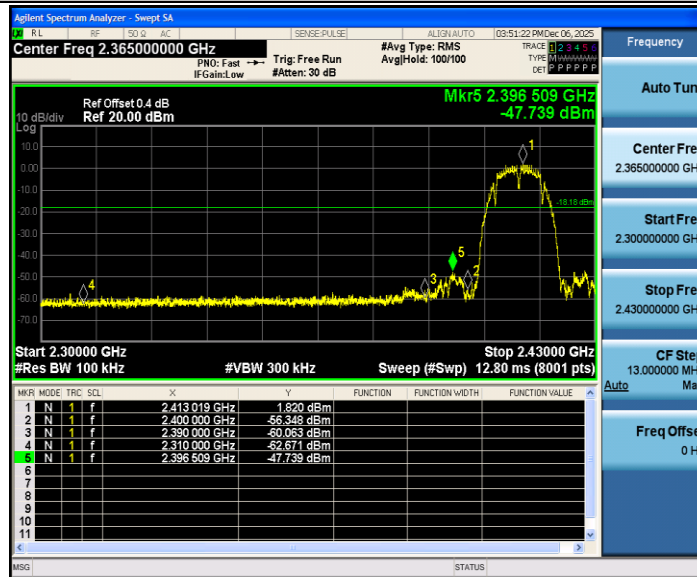
Appendix E: Band edge measurements

Test Result

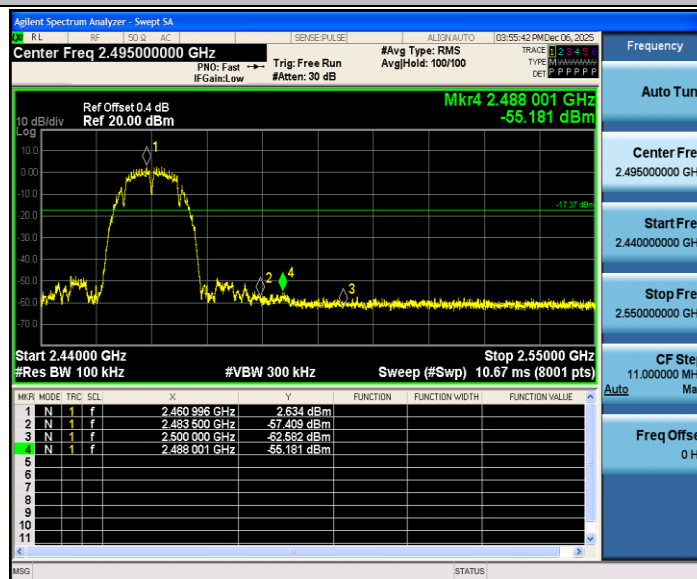
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.82	-47.74	≤-18.18	PASS
		High	2462	2.63	-55.18	≤-17.37	PASS
11G	Ant1	Low	2412	-2.20	-35.31	≤-22.2	PASS
		High	2462	-1.89	-56.83	≤-21.89	PASS
11N20SISO	Ant1	Low	2412	-2.24	-33.48	≤-22.24	PASS
		High	2462	-2.12	-57.28	≤-22.12	PASS

Test Graphs

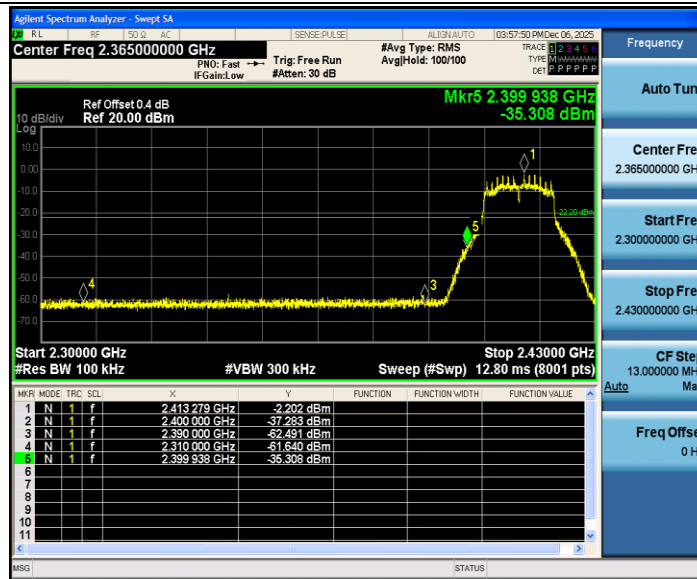
11B_Ant1_Low_2412



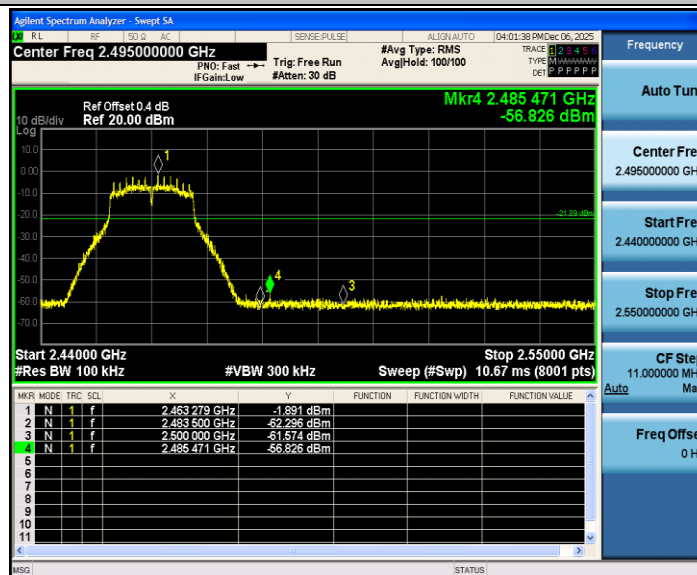
11B_Ant1_High_2462



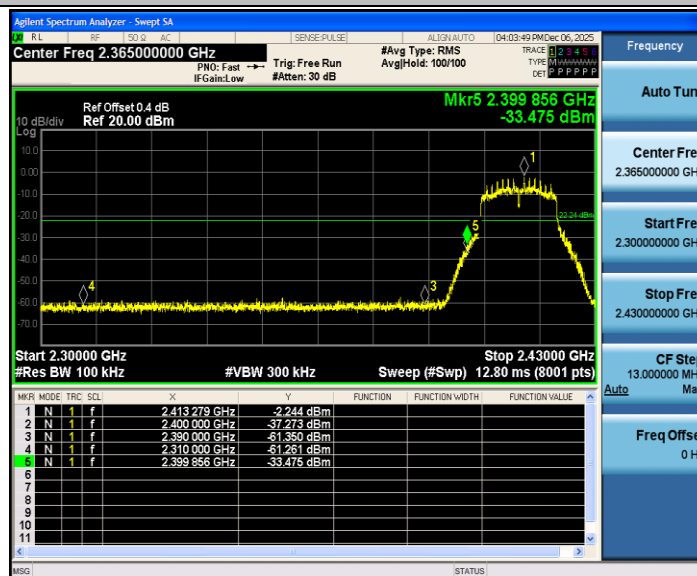
11G_Ant1_Low_2412



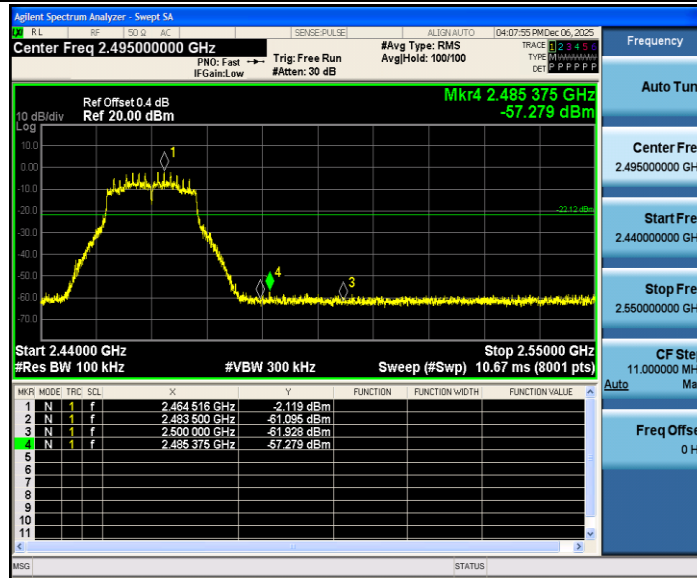
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

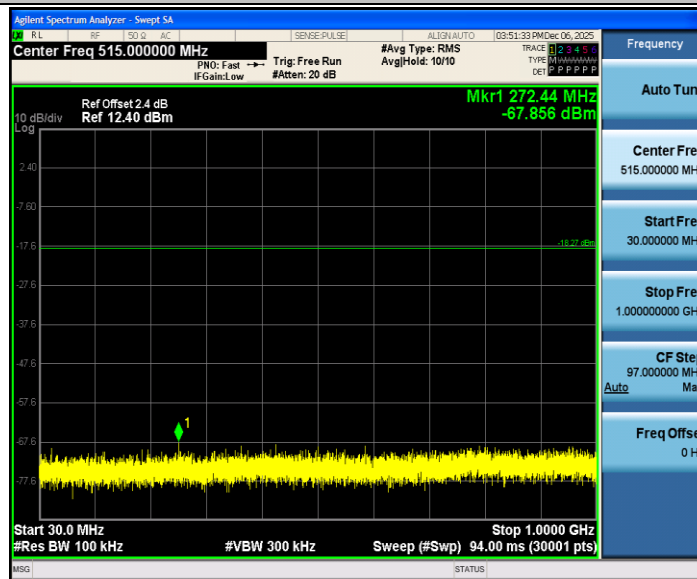
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-67.86	≤-18.27	PASS
			1000~26500	1.73	-54.79	≤-18.27	PASS
		2437	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-68.14	≤-17.97	PASS
			1000~26500	2.03	-55.06	≤-17.97	PASS
		2462	Reference	2.23	2.23	---	PASS
			30~1000	2.23	-68.41	≤-17.77	PASS
			1000~26500	2.23	-54.58	≤-17.77	PASS
11G	Ant1	2412	Reference	-3.04	-3.04	---	PASS
			30~1000	-3.04	-67.54	≤-23.04	PASS
			1000~26500	-3.04	-54.77	≤-23.04	PASS
		2437	Reference	-3.76	-3.76	---	PASS
			30~1000	-3.76	-66.72	≤-23.76	PASS
			1000~26500	-3.76	-54.72	≤-23.76	PASS
		2462	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-68.32	≤-22.25	PASS
			1000~26500	-2.25	-55.3	≤-22.25	PASS
11N20SISO	Ant1	2412	Reference	-3.03	-3.03	---	PASS
			30~1000	-3.03	-68.15	≤-23.03	PASS
			1000~26500	-3.03	-54.51	≤-23.03	PASS
		2437	Reference	-2.02	-2.02	---	PASS
			30~1000	-2.02	-67.44	≤-22.02	PASS
			1000~26500	-2.02	-54.32	≤-22.02	PASS
		2462	Reference	-2.55	-2.55	---	PASS
			30~1000	-2.55	-67.69	≤-22.55	PASS
			1000~26500	-2.55	-54.43	≤-22.55	PASS

Test Graphs

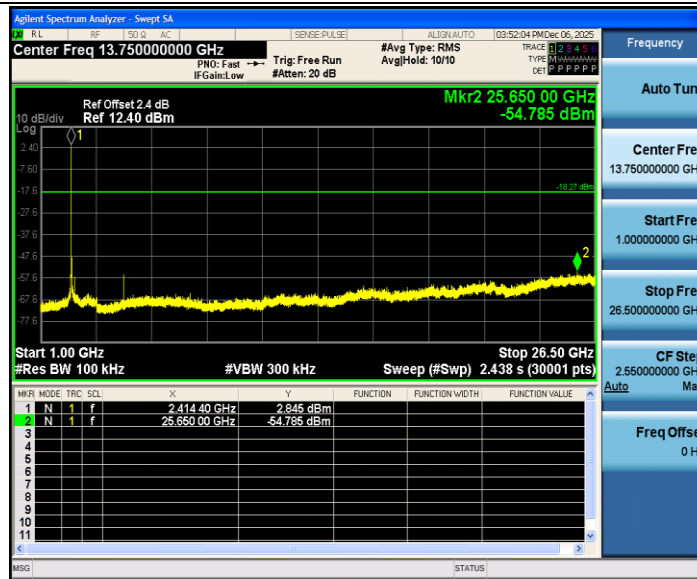
11B_Ant1_2412_0~Reference



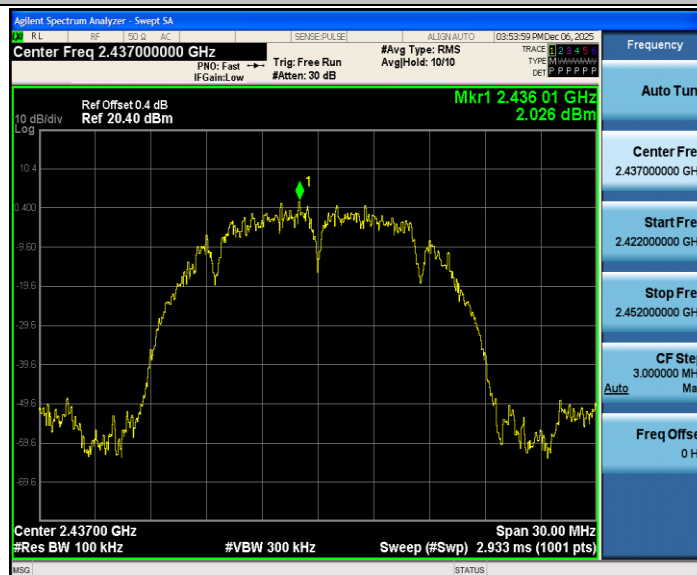
11B_Ant1_2412_30~1000



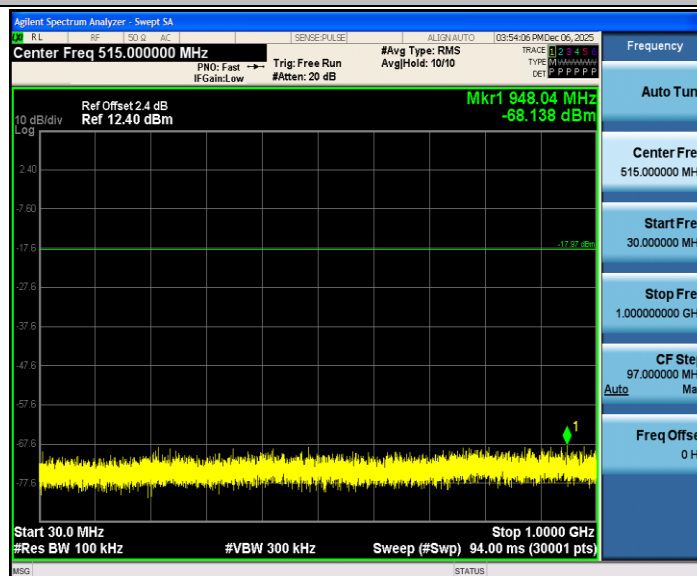
11B_Ant1_2412_1000~26500



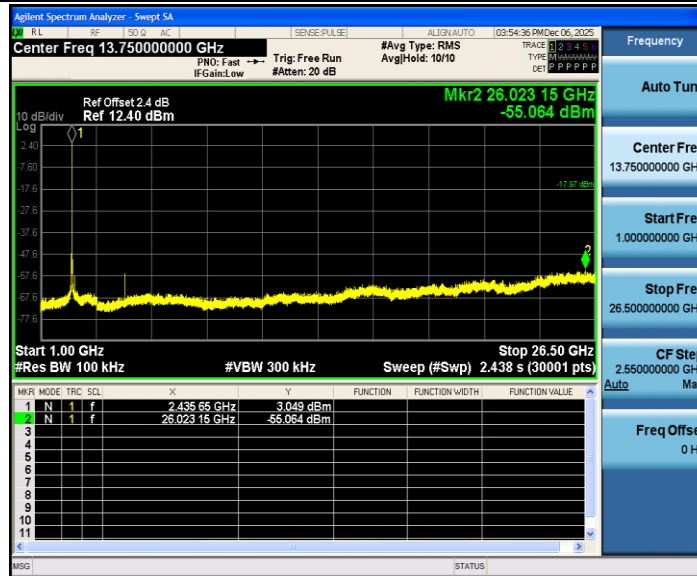
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



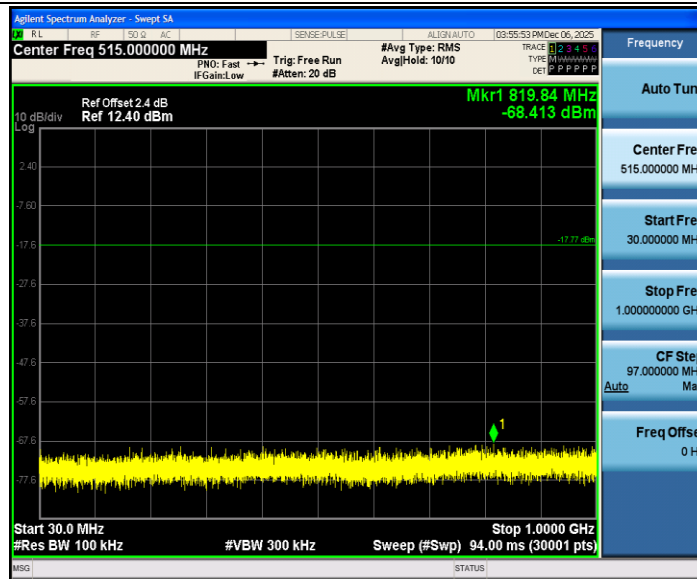
11B_Ant1_2437_1000~26500



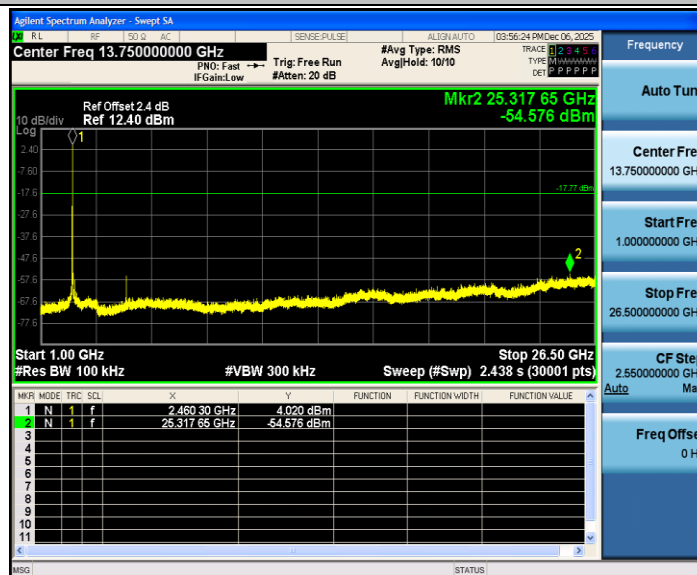
11B_Ant1_2462_0~Reference



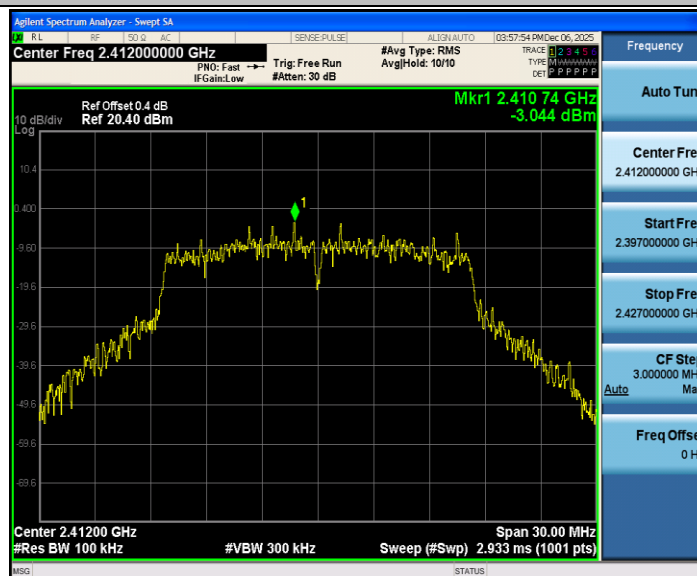
11B_Ant1_2462_30~1000



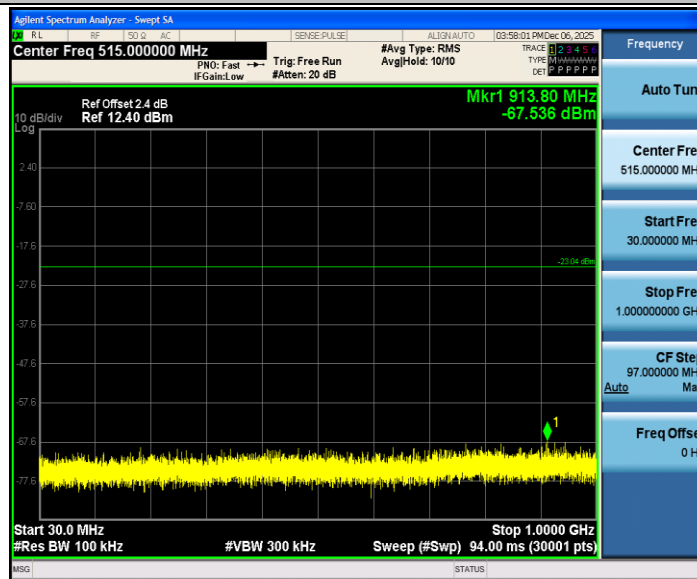
11B_Ant1_2462_1000~26500



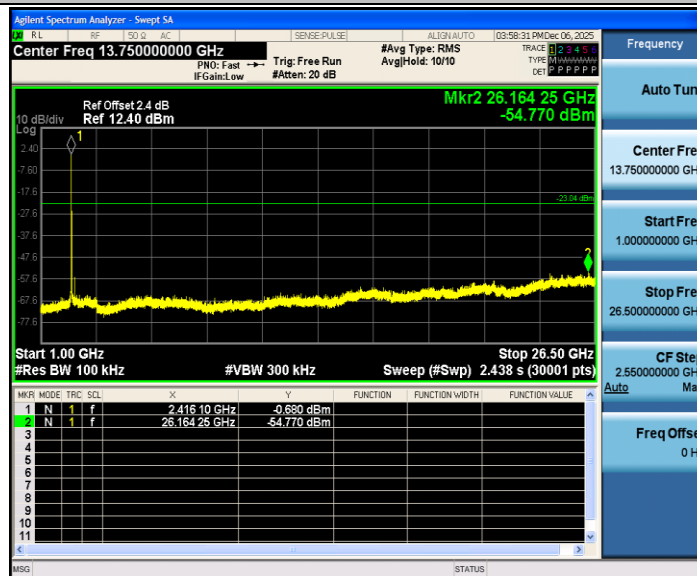
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



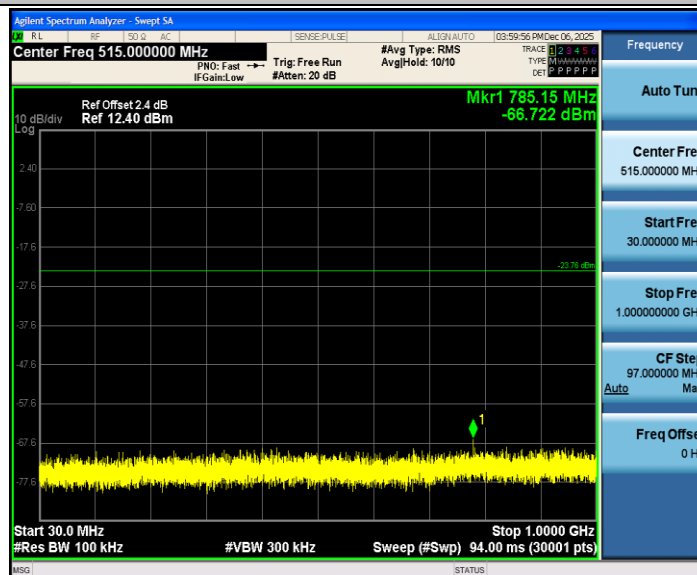
11G_Ant1_2412_1000~26500



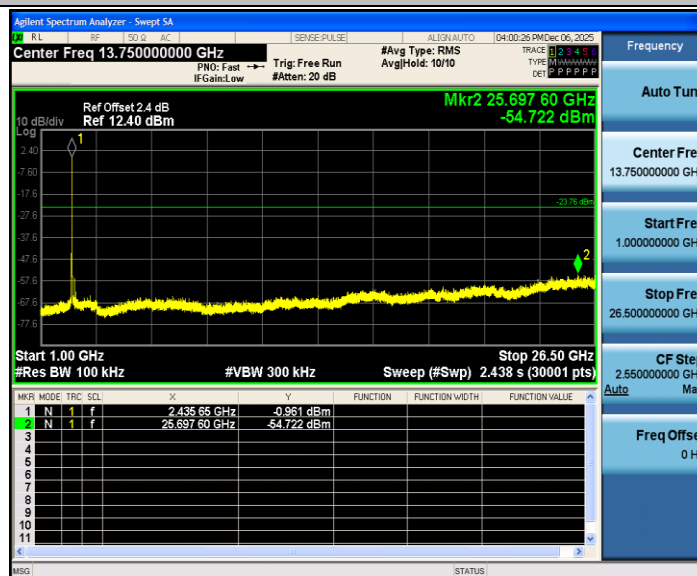
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



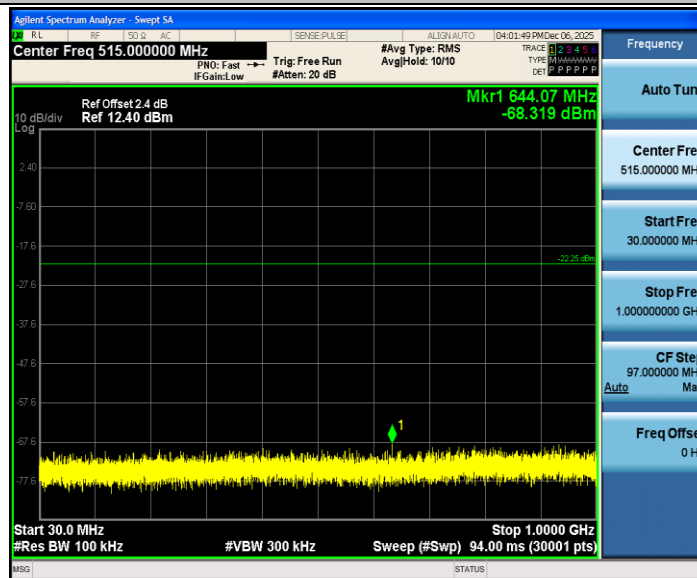
11G_Ant1_2437_1000~26500



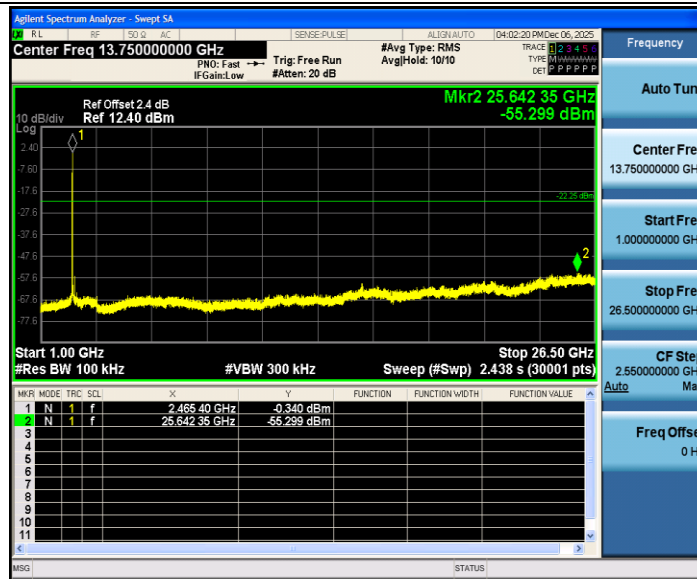
11G_Ant1_2462_0~Reference



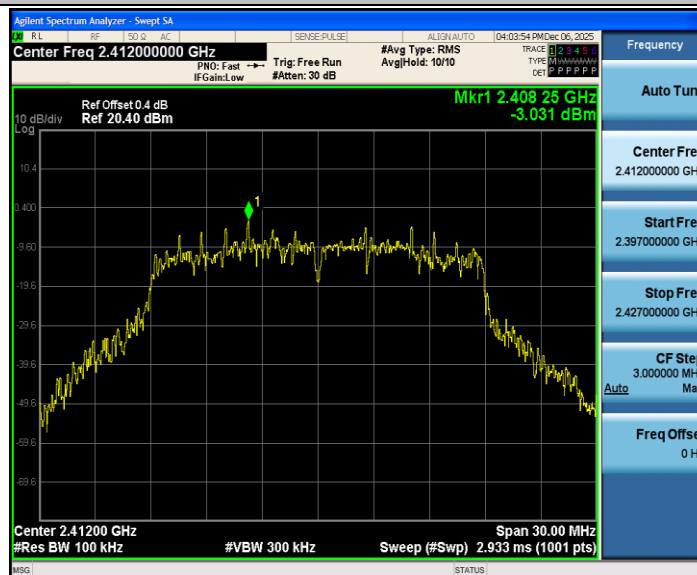
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

