

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AQVT-KH-2100

Company : Xiamen maken technology co., LTD.

EUT : Self-Service Kiosk

Model Number : KH-2100

Report No. : CTA26042301101

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

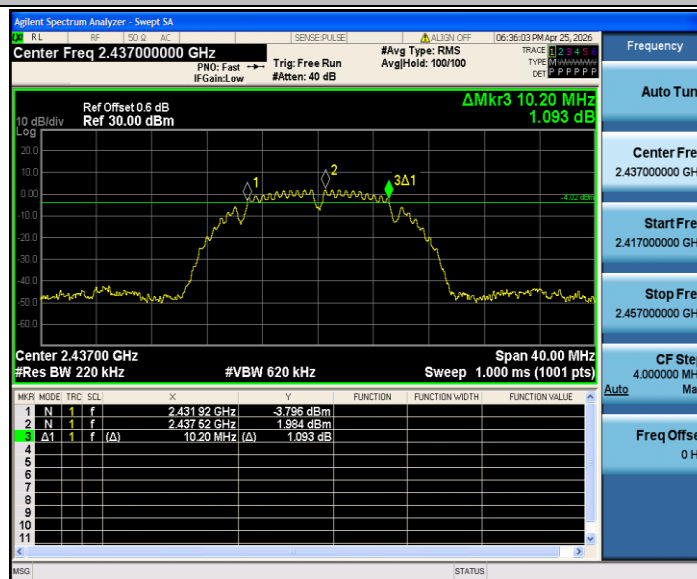
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.800	2404.120	2419.920	0.5	PASS
		2437	15.880	2429.040	2444.920	0.5	PASS
		2462	15.760	2454.080	2469.840	0.5	PASS
11N20SISO	Ant1	2412	16.960	2403.640	2420.600	0.5	PASS
		2437	16.160	2429.080	2445.240	0.5	PASS
		2462	16.680	2453.720	2470.400	0.5	PASS

Test Graphs

11B_Ant1_2412



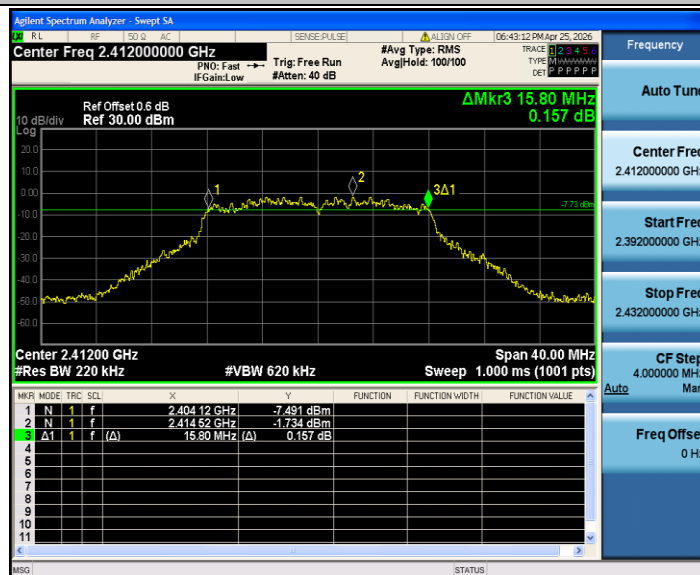
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



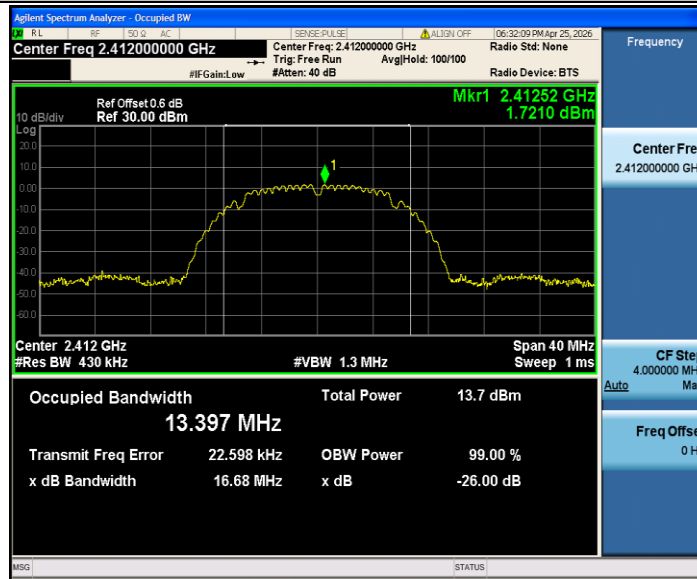
Appendix B: Occupied Channel Bandwidth

Test Result

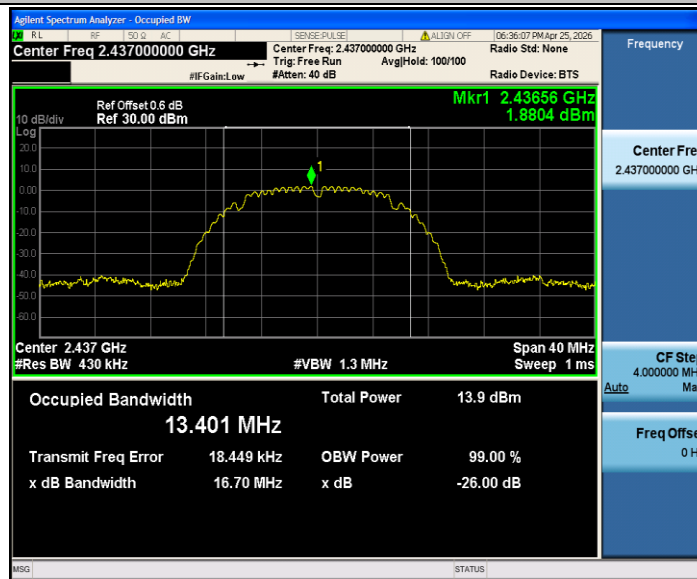
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.397	2405.3241	2418.7211	---	---
		2437	13.401	2430.3180	2443.7190	---	---
		2462	13.422	2455.3028	2468.7248	---	---
11G	Ant1	2412	16.857	2403.6030	2420.4600	---	---
		2437	16.812	2428.6412	2445.4532	---	---
		2462	16.817	2453.6319	2470.4489	---	---
11N20SISO	Ant1	2412	17.883	2403.0906	2420.9736	---	---
		2437	17.900	2428.0528	2445.9528	---	---
		2462	17.921	2453.0691	2470.9901	---	---

Test Graphs

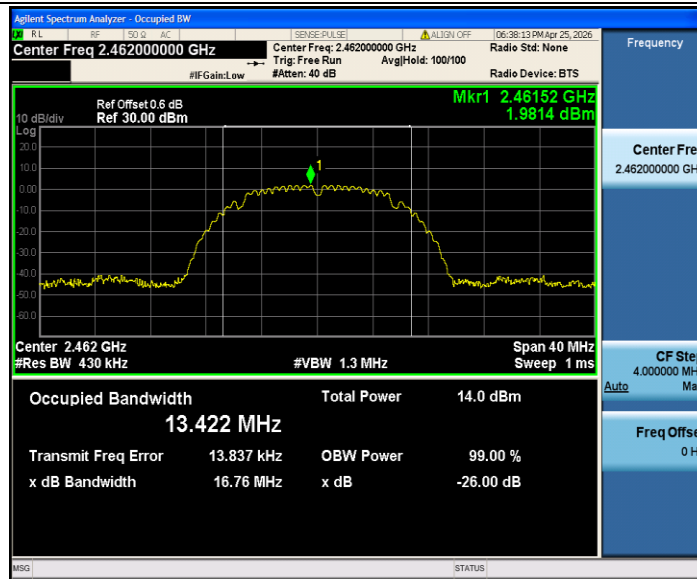
11B_Ant1_2412



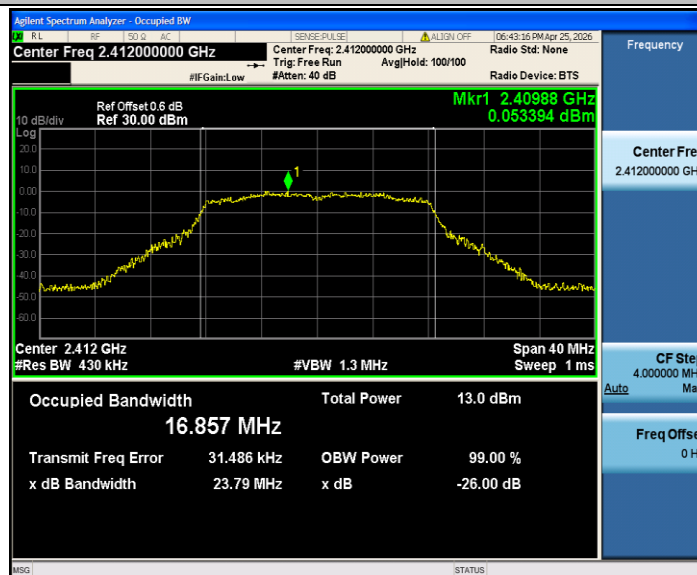
11B_Ant1_2437



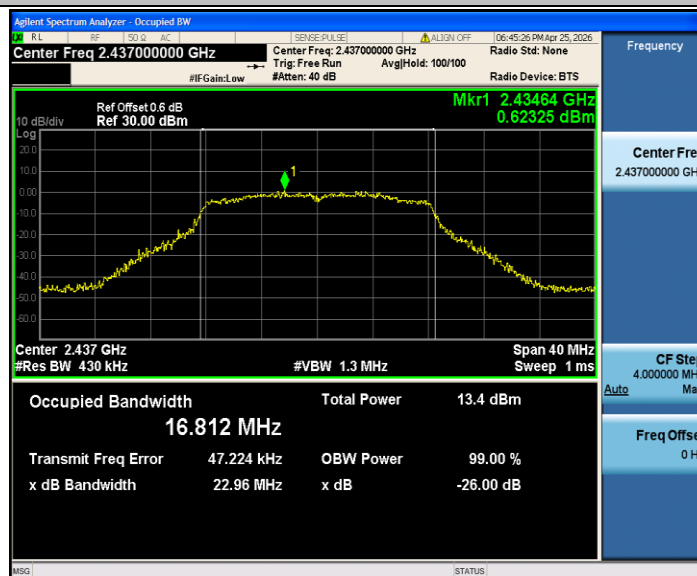
11B_Ant1_2462



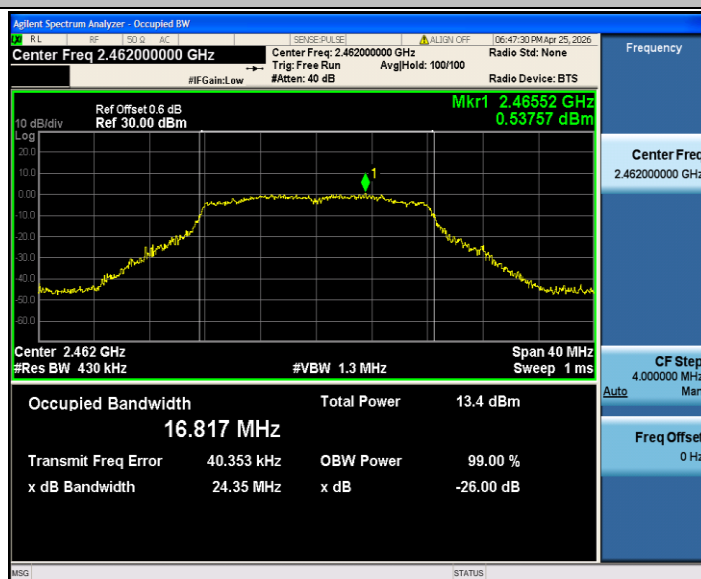
11G_Ant1_2412



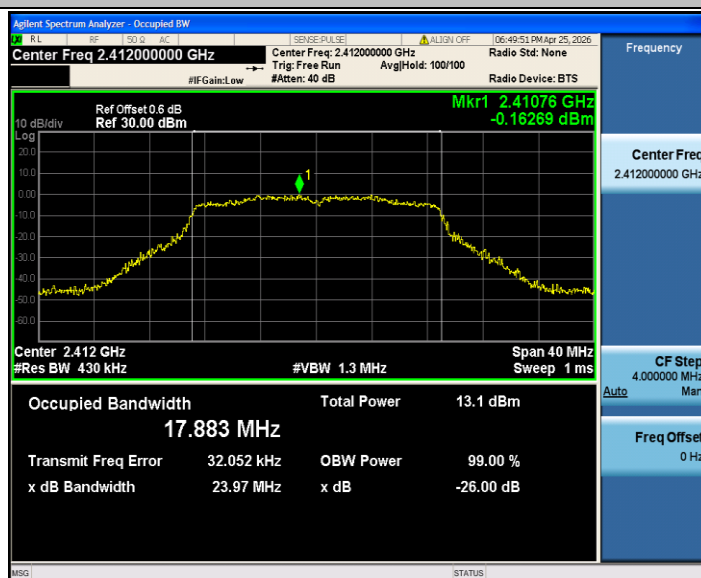
11G_Ant1_2437



11G_Ant1_2462



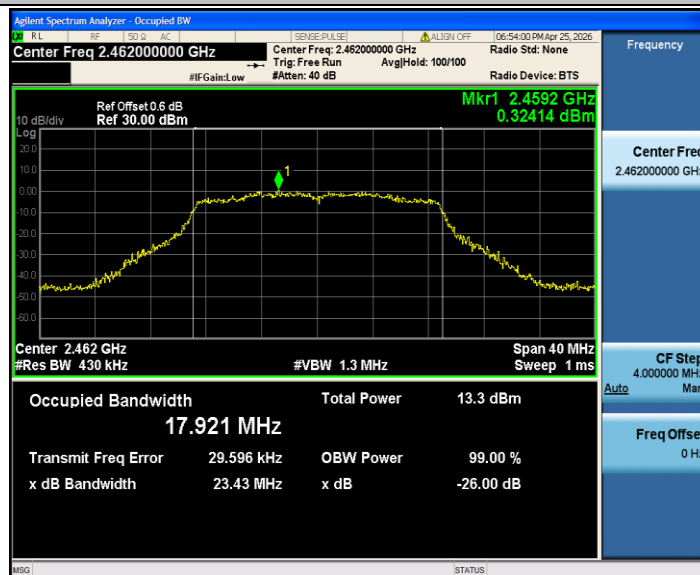
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.43	≤30.00	PASS
		2437	13.62	≤30.00	PASS
		2462	13.72	≤30.00	PASS
11G	Ant1	2412	14.16	≤30.00	PASS
		2437	14.29	≤30.00	PASS
		2462	14.36	≤30.00	PASS
11N20SISO	Ant1	2412	13.97	≤30.00	PASS
		2437	14.08	≤30.00	PASS
		2462	14.20	≤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	-12.64	≤8.00	PASS
		2437	-12.48	≤8.00	PASS
		2462	-12.49	≤8.00	PASS
11G	Ant1	2412	-17.24	≤8.00	PASS
		2437	-17.71	≤8.00	PASS
		2462	-17.54	≤8.00	PASS
11N20SISO	Ant1	2412	-17.77	≤8.00	PASS
		2437	-17.41	≤8.00	PASS
		2462	-17.06	≤8.00	PASS

Test Graphs

11B_Ant1_2412



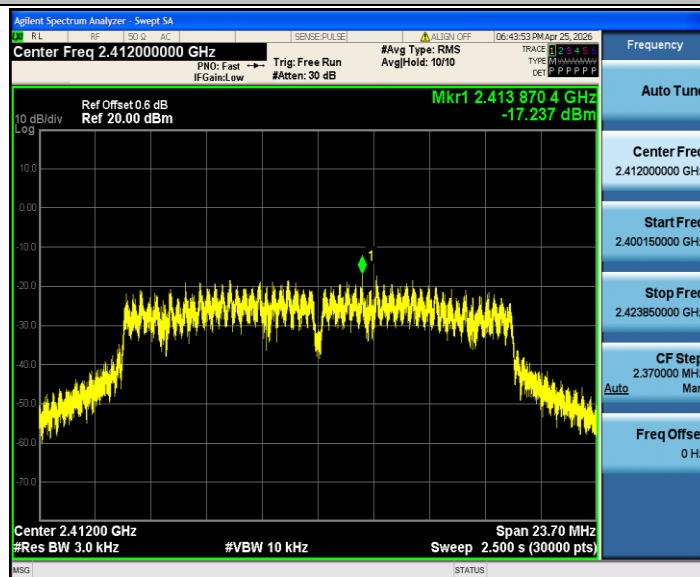
11B_Ant1_2437



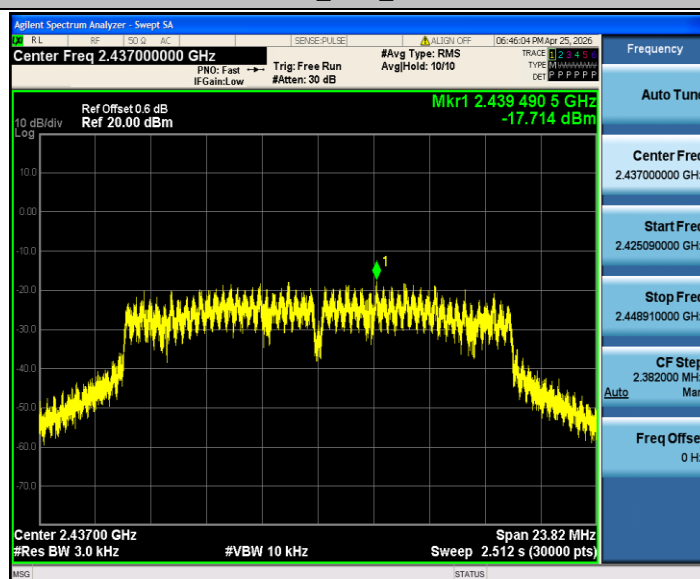
11B_Ant1_2462



11G_Ant1_2412



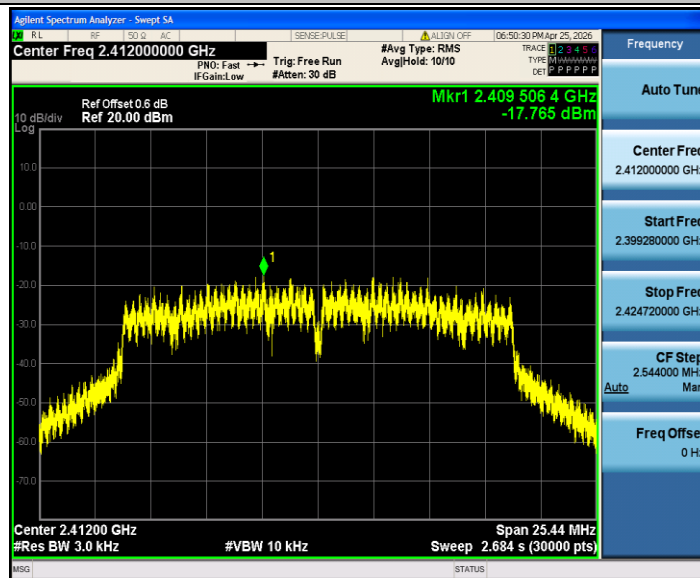
11G_Ant1_2437



11G_Ant1_2462



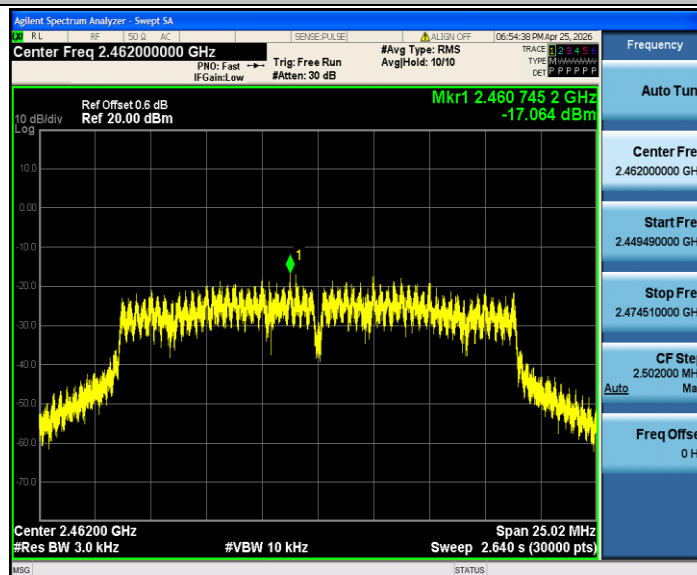
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



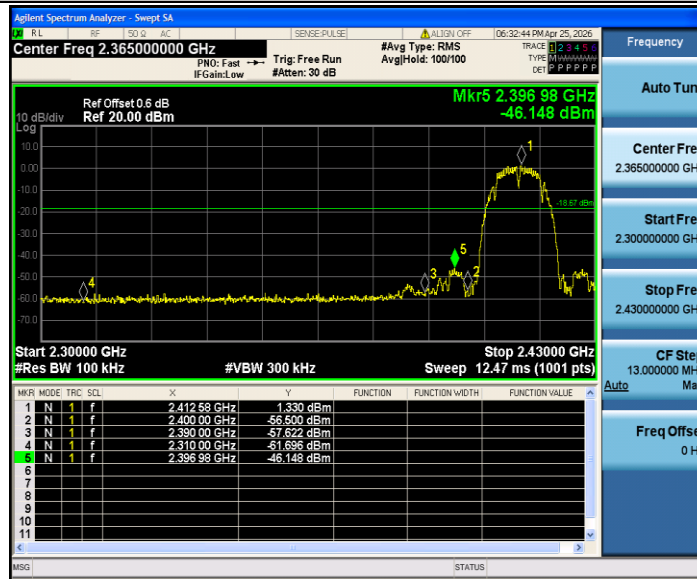
Appendix E: Band edge measurements

Test Result

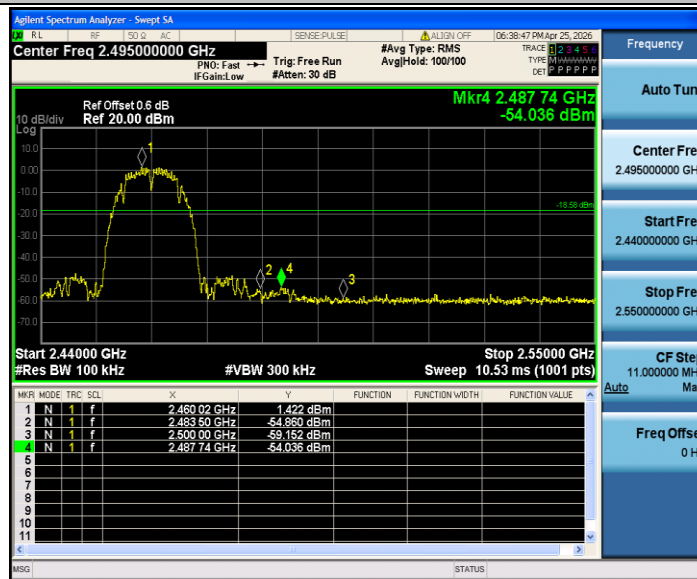
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.33	-46.15	≤-18.67	PASS
		High	2462	1.42	-54.04	≤-18.58	PASS
11G	Ant1	Low	2412	-2.45	-35.15	≤-22.45	PASS
		High	2462	-2.14	-57.21	≤-22.14	PASS
11N20SISO	Ant1	Low	2412	-2.61	-33.21	≤-22.61	PASS
		High	2462	-2.52	-57.5	≤-22.52	PASS

Test Graphs

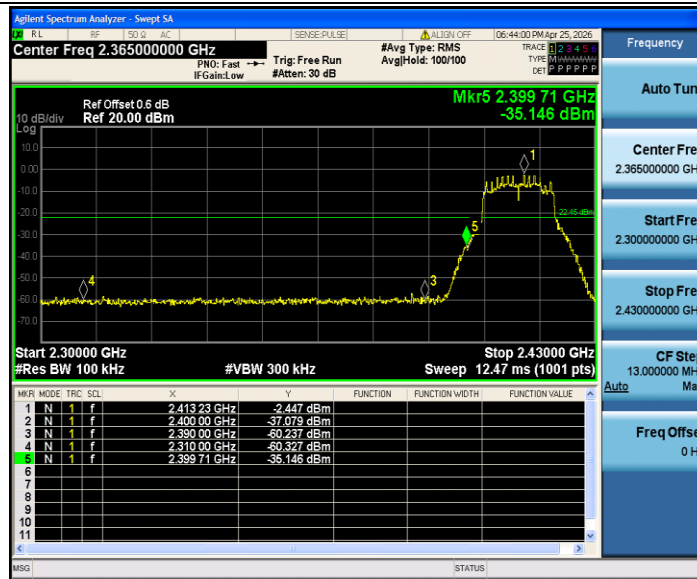
11B_Ant1_Low_2412



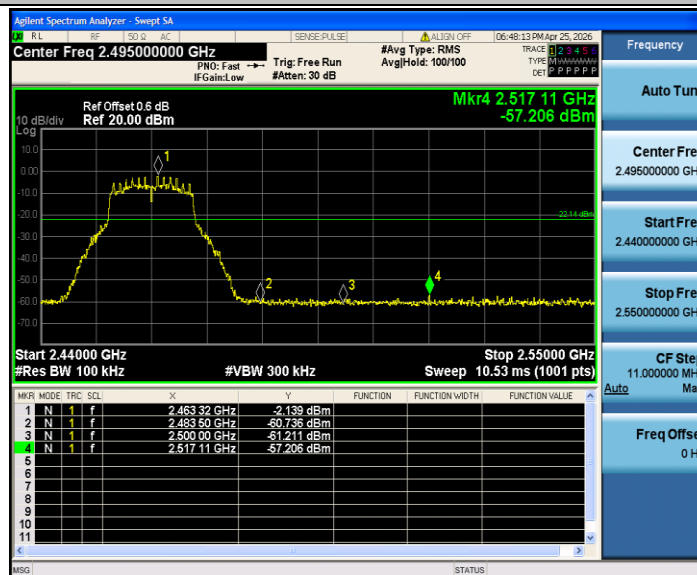
11B_Ant1_High_2462



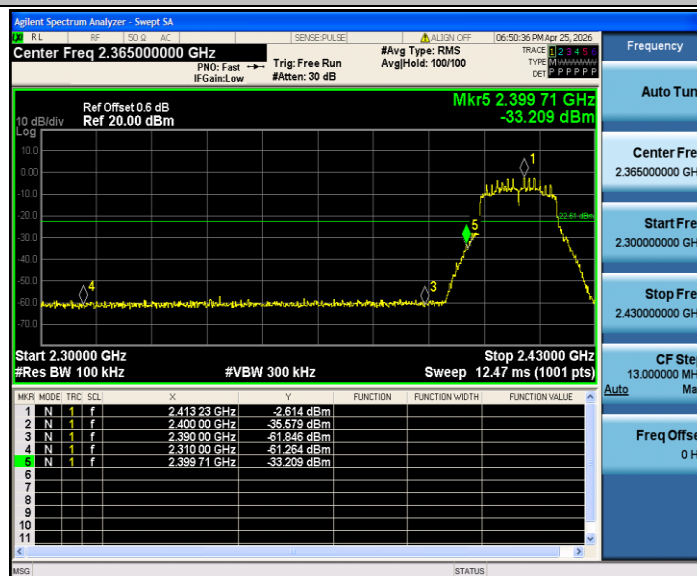
11G_Ant1_Low_2412



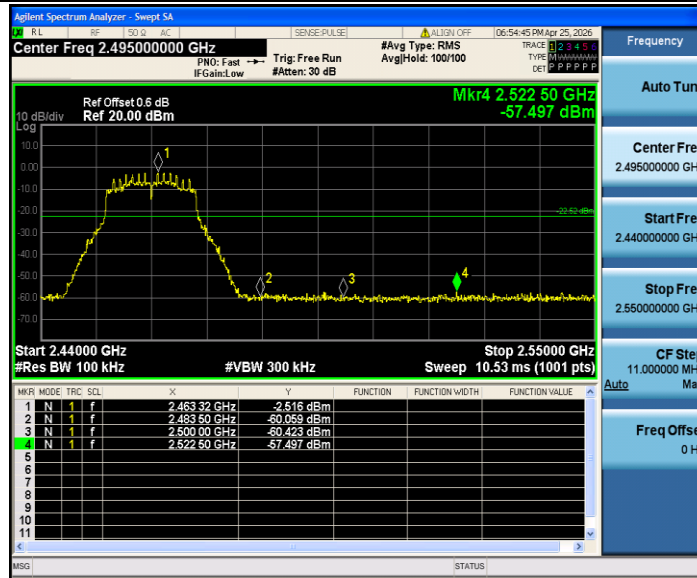
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

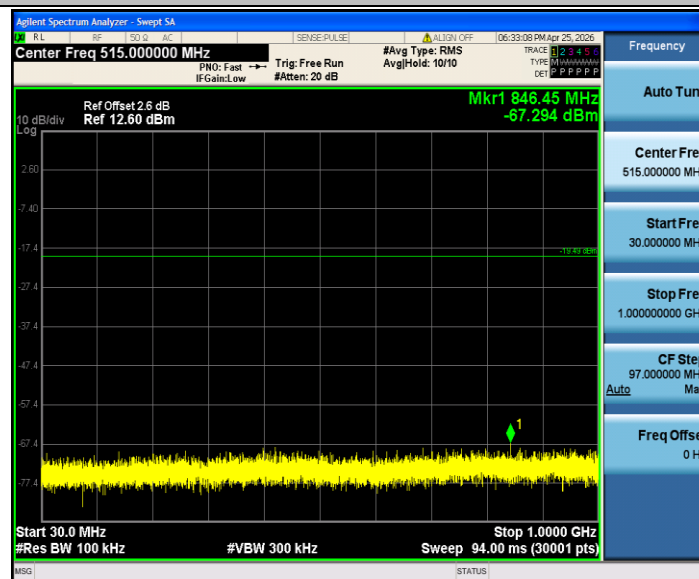
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.51	0.51	---	PASS
			30~1000	0.51	-67.29	≤-19.49	PASS
			1000~26500	0.51	-55.04	≤-19.49	PASS
		2437	Reference	0.54	0.54	---	PASS
			30~1000	0.54	-66.63	≤-19.46	PASS
			1000~26500	0.54	-55.13	≤-19.46	PASS
		2462	Reference	0.65	0.65	---	PASS
			30~1000	0.65	-67.7	≤-19.35	PASS
			1000~26500	0.65	-54.47	≤-19.35	PASS
11G	Ant1	2412	Reference	-3.17	-3.17	---	PASS
			30~1000	-3.17	-68.05	≤-23.17	PASS
			1000~26500	-3.17	-55.28	≤-23.17	PASS
		2437	Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-67.21	≤-22.83	PASS
			1000~26500	-2.83	-55.4	≤-22.83	PASS
		2462	Reference	-2.51	-2.51	---	PASS
			30~1000	-2.51	-67.46	≤-22.51	PASS
			1000~26500	-2.51	-55.11	≤-22.51	PASS
11N20SISO	Ant1	2412	Reference	-2.75	-2.75	---	PASS
			30~1000	-2.75	-67.5	≤-22.75	PASS
			1000~26500	-2.75	-55.11	≤-22.75	PASS
		2437	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-67.23	≤-22.28	PASS
			1000~26500	-2.28	-55.39	≤-22.28	PASS
		2462	Reference	-2.80	-2.80	---	PASS
			30~1000	-2.80	-68.17	≤-22.8	PASS
			1000~26500	-2.80	-55.16	≤-22.8	PASS

Test Graphs

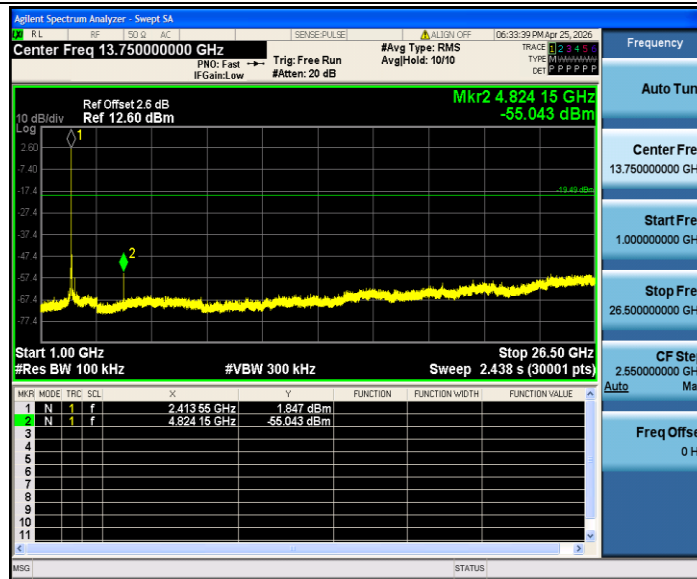
11B_Ant1_2412_0~Reference



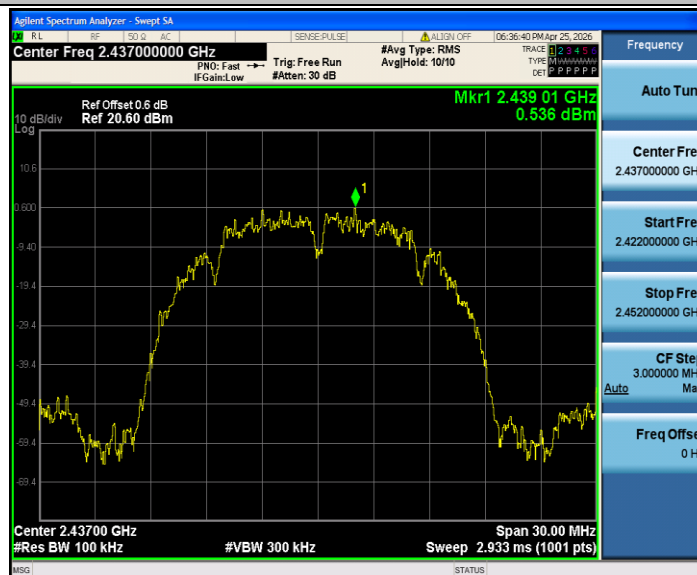
11B_Ant1_2412_30~1000



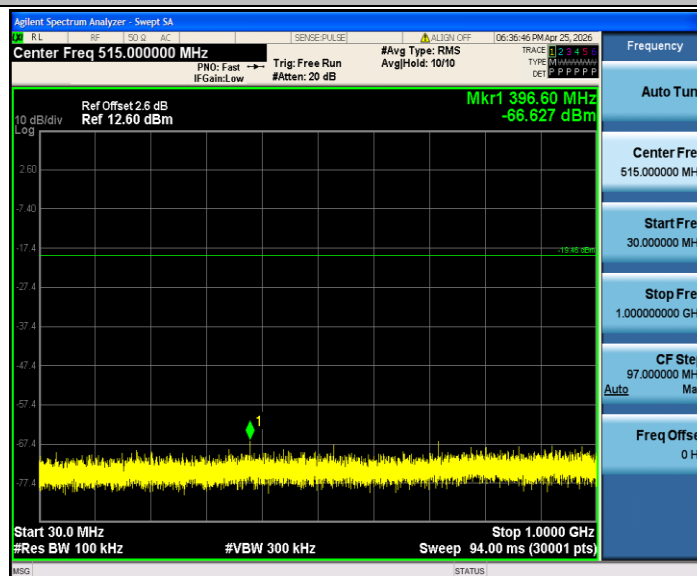
11B_Ant1_2412_1000~26500



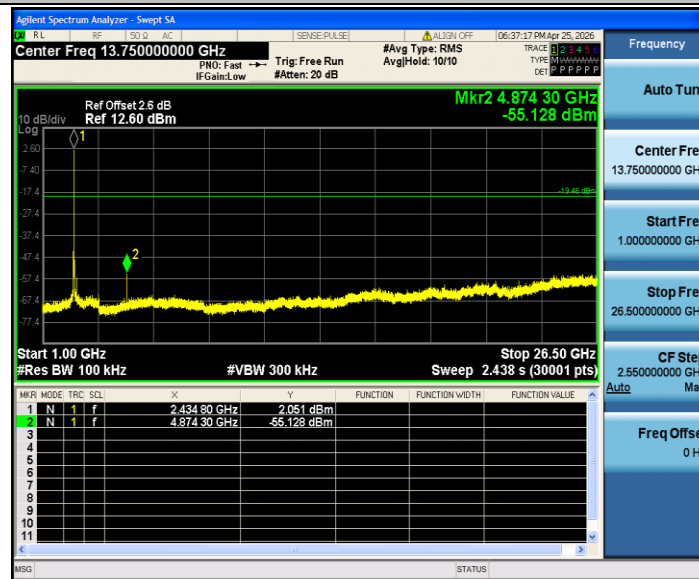
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



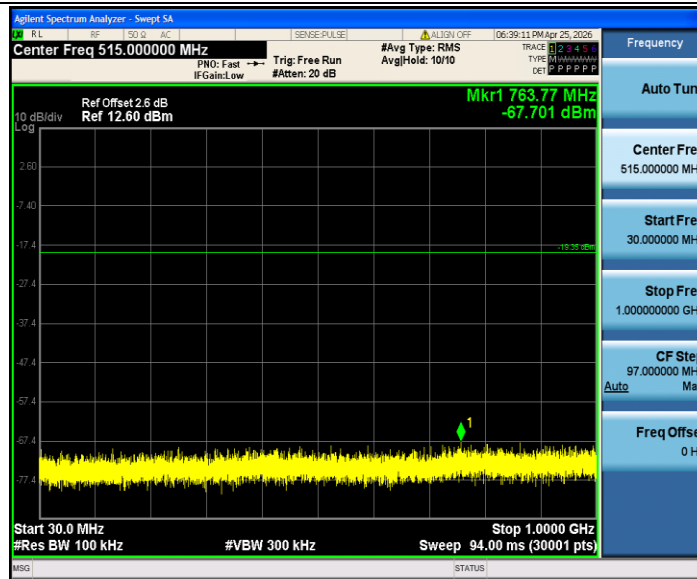
11B_Ant1_2437_1000~26500



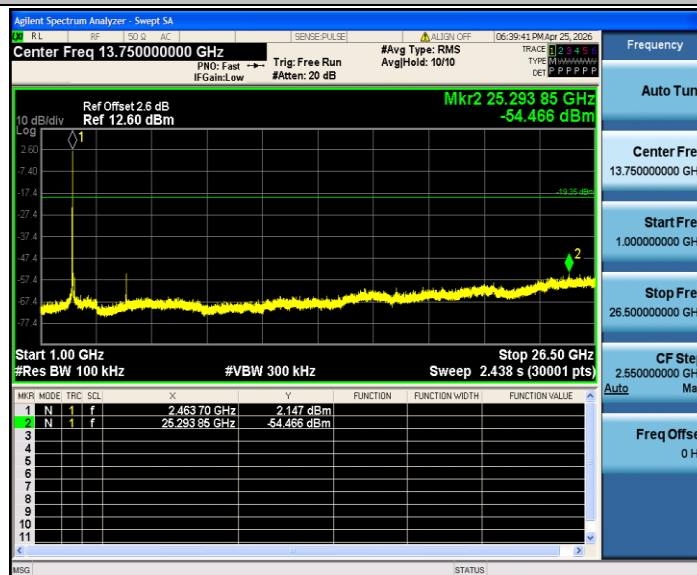
11B_Ant1_2462_0~Reference



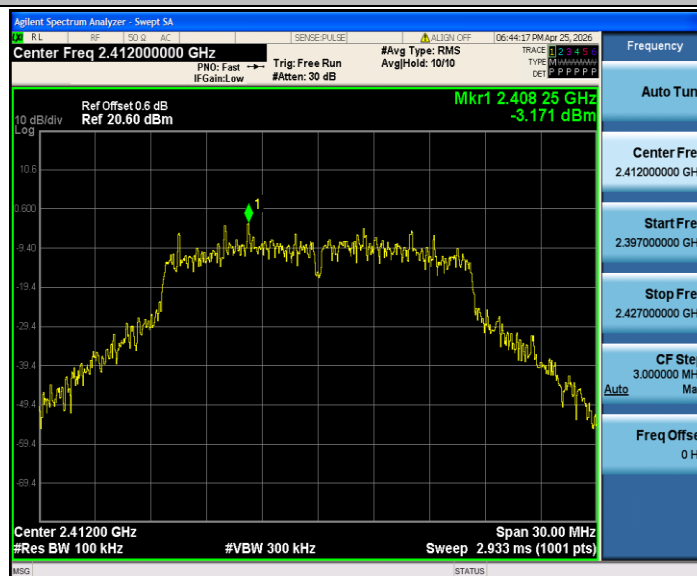
11B_Ant1_2462_30~1000



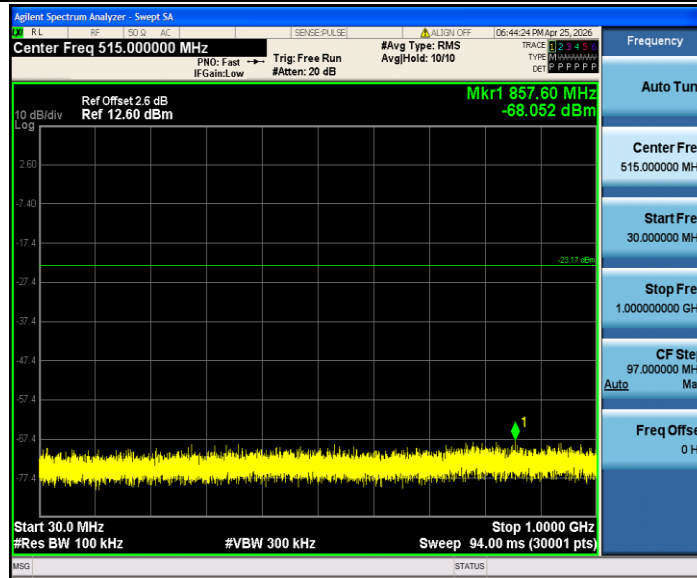
11B_Ant1_2462_1000~26500



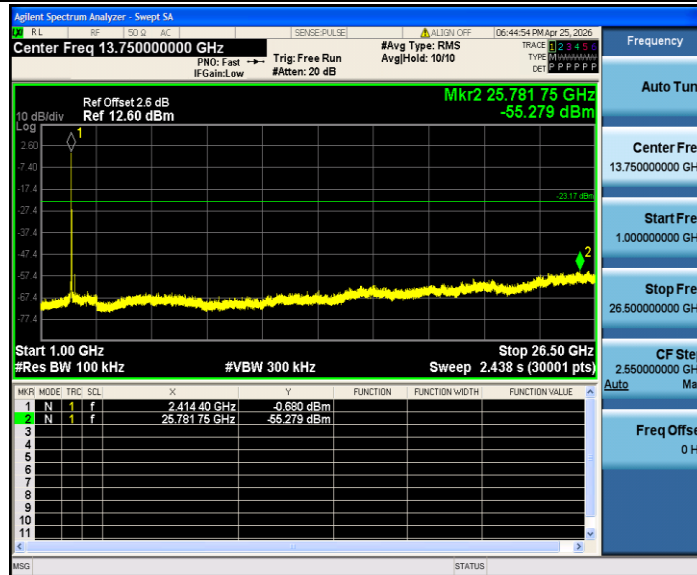
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



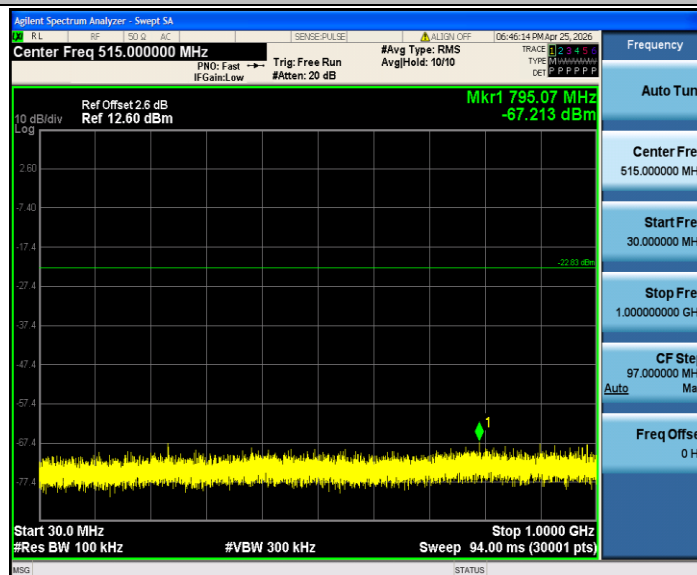
11G_Ant1_2412_1000~26500



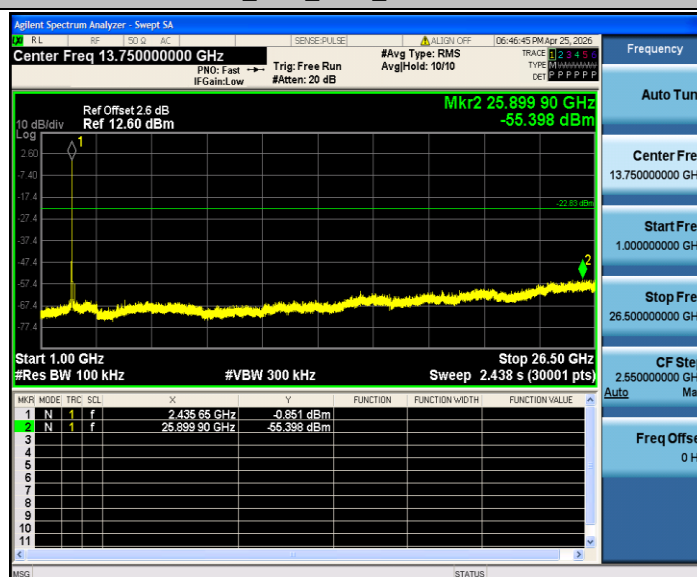
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



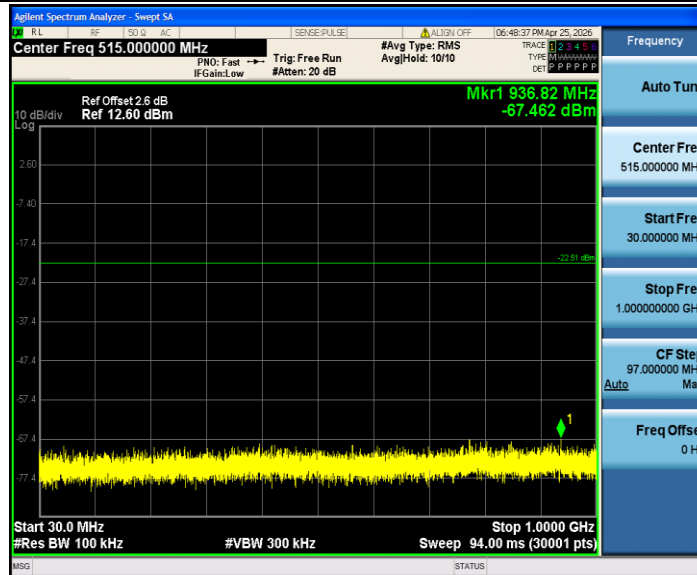
11G_Ant1_2437_1000~26500



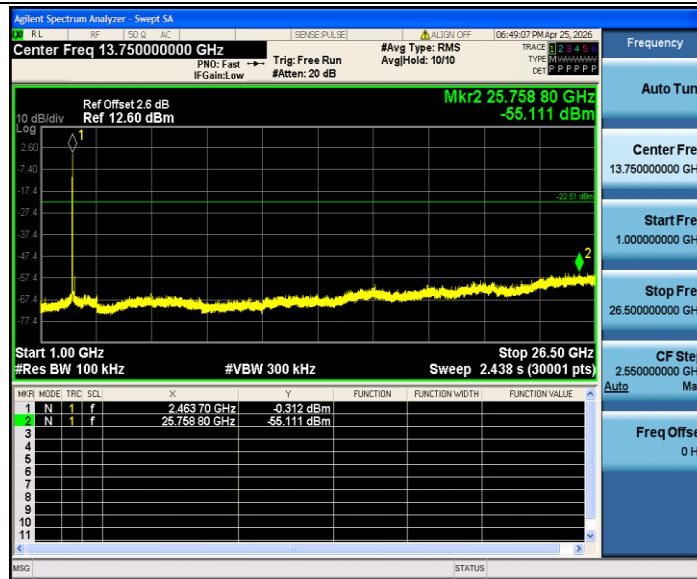
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



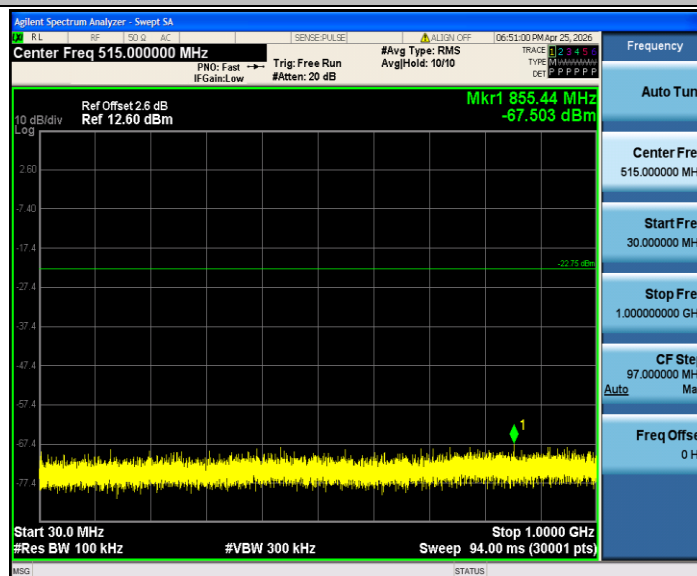
11G_Ant1_2462_1000~26500



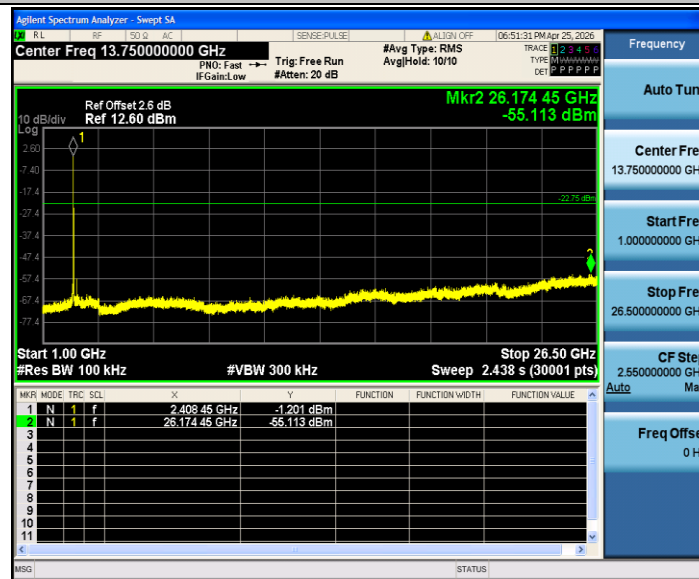
11N20SISO_Ant1_2412_0~Reference



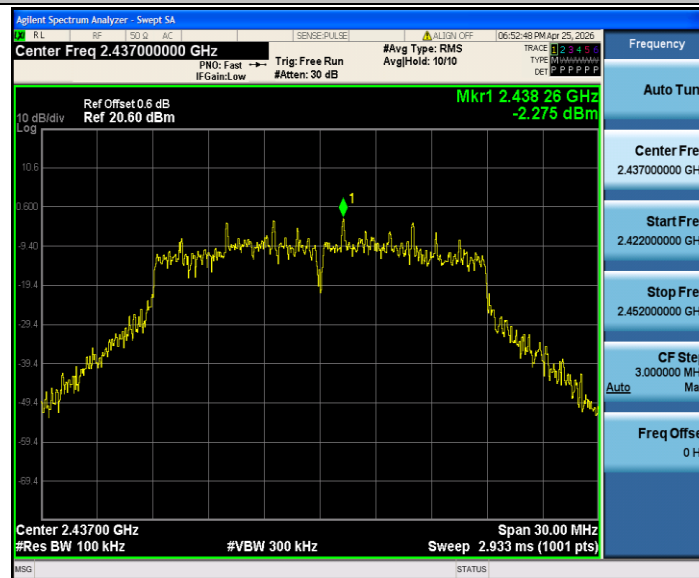
11N20SISO_Ant1_2412_30~1000



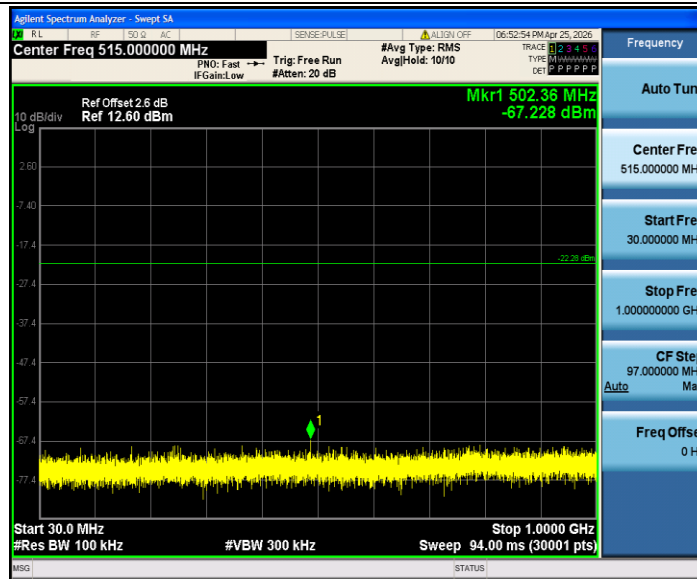
11N20SISO_Ant1_2412_1000~26500



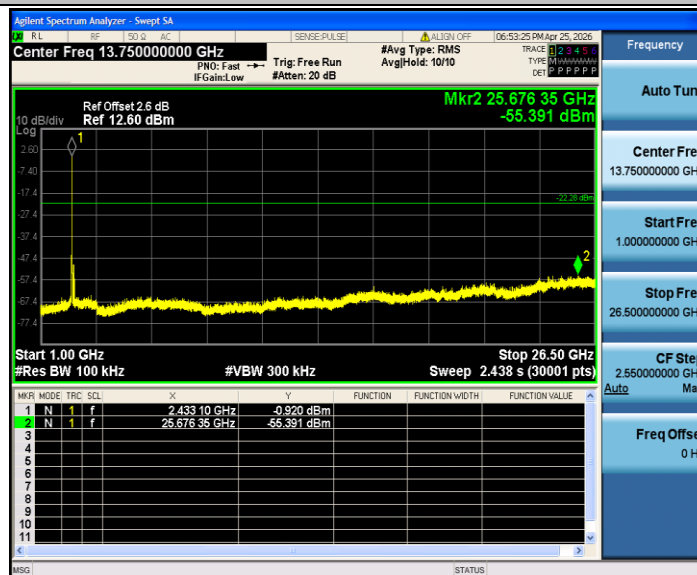
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



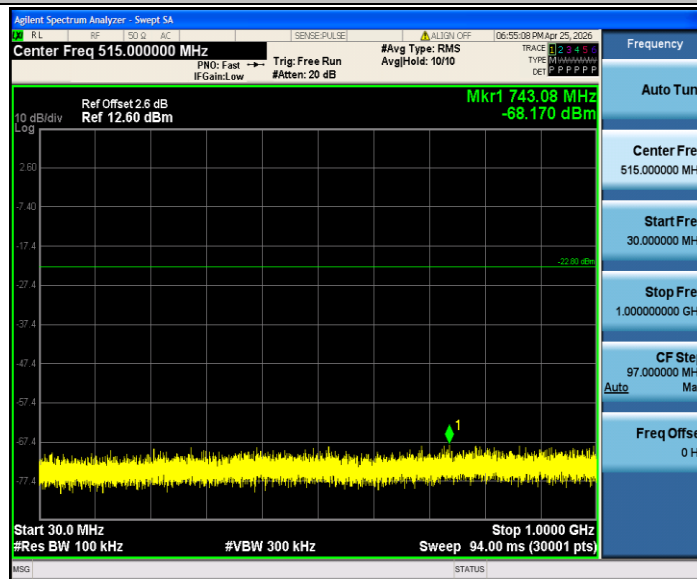
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

