

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BQH8-XW255

Company : Jiaxing Kangnaibo Electronic Equipment Co., Ltd.

EUT : Video Walkie Talkies

Model Number : XW255

Report No. : CTA26030500801

Reviewed By : Eric Wang

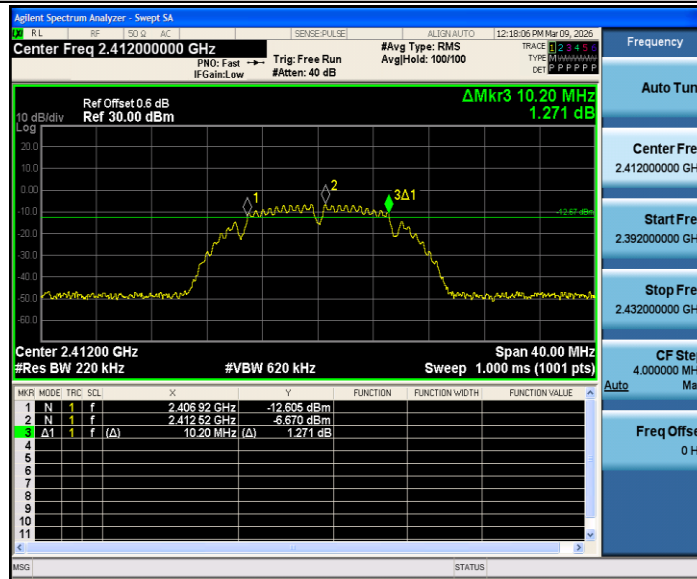
Appendix A: DTS Bandwidth

Test Result

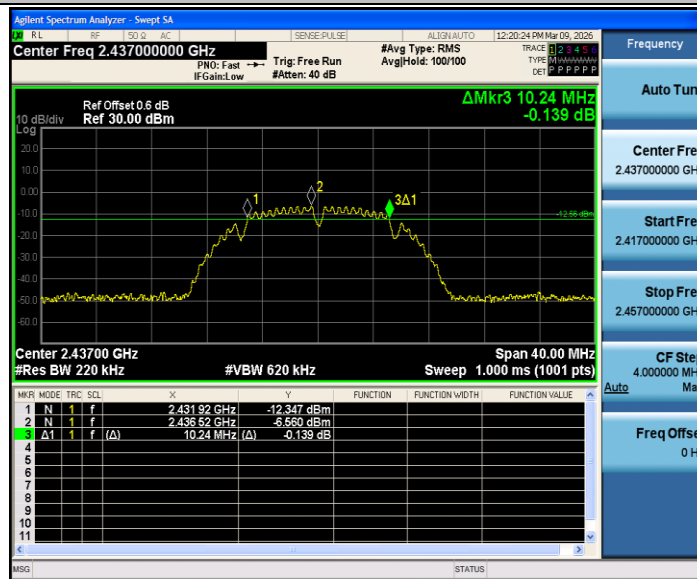
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.880	2404.120	2420.000	0.5	PASS
		2437	15.640	2429.280	2444.920	0.5	PASS
		2462	15.880	2453.960	2469.840	0.5	PASS
11N20SISO	Ant1	2412	17.080	2403.480	2420.560	0.5	PASS
		2437	16.840	2428.720	2445.560	0.5	PASS
		2462	16.600	2453.880	2470.480	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



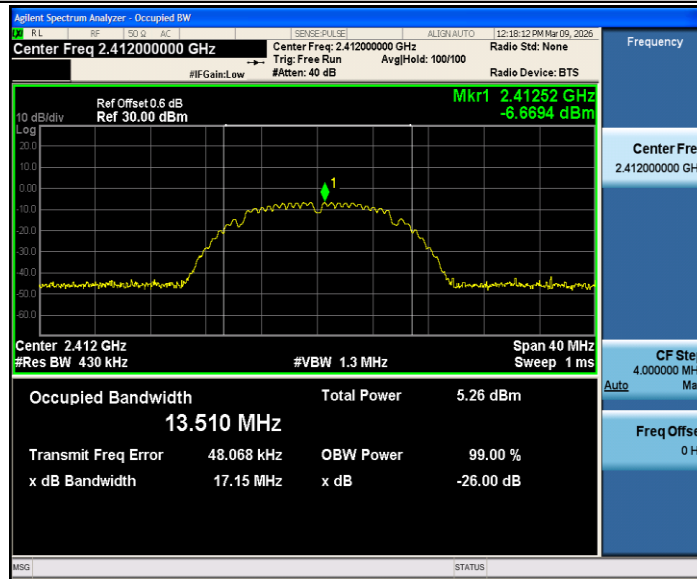
Appendix B: Occupied Channel Bandwidth

Test Result

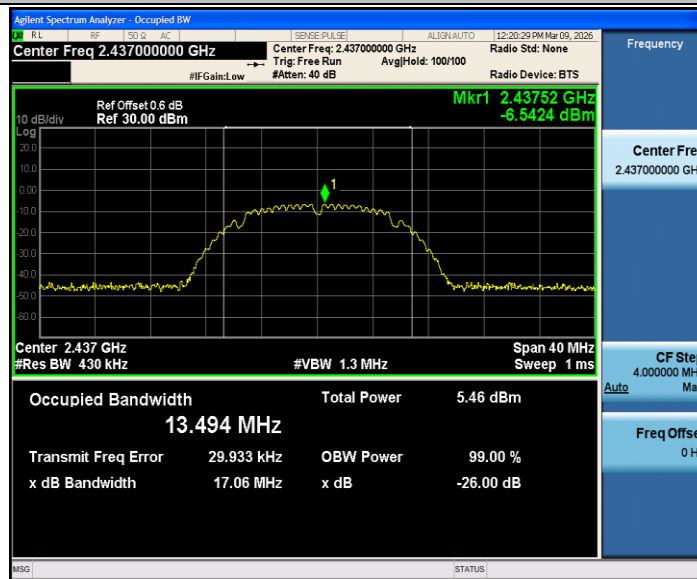
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.510	2405.2931	2418.8031	---	---
		2437	13.494	2430.2829	2443.7769	---	---
		2462	13.507	2455.2630	2468.7700	---	---
11G	Ant1	2412	16.918	2403.6109	2420.5289	---	---
		2437	16.823	2428.6573	2445.4803	---	---
		2462	16.941	2453.5692	2470.5102	---	---
11N20SISO	Ant1	2412	18.031	2403.0313	2421.0623	---	---
		2437	18.023	2427.9940	2446.0170	---	---
		2462	17.939	2453.0866	2471.0256	---	---

Test Graphs

11B_Ant1_2412



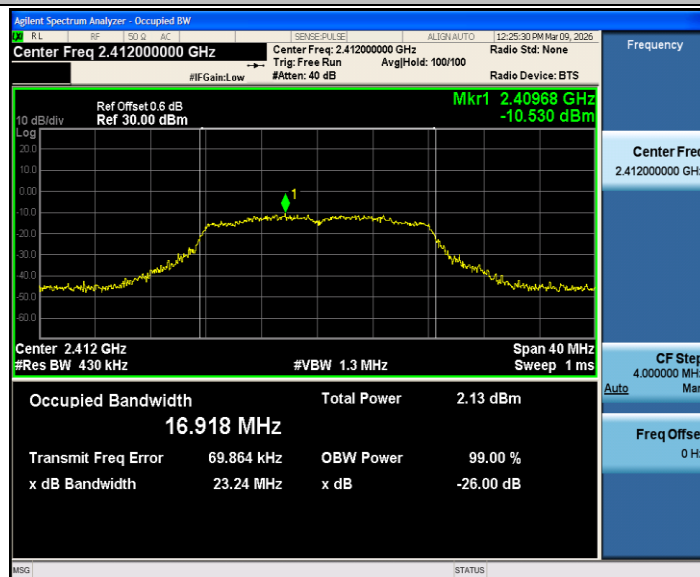
11B_Ant1_2437



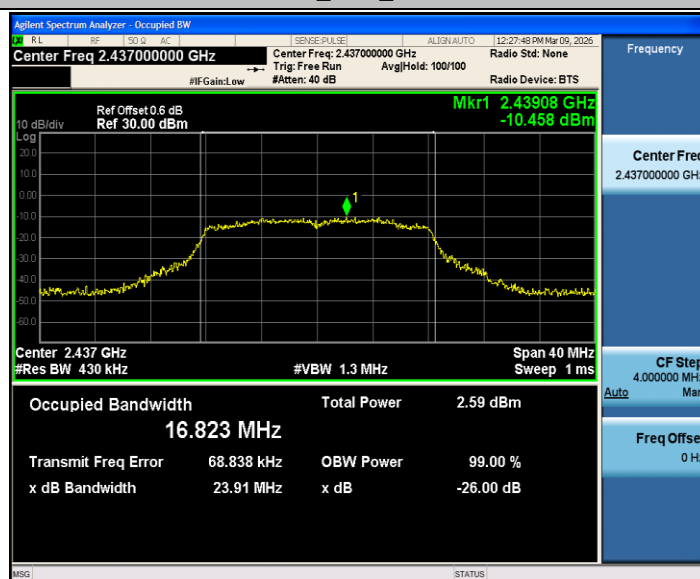
11B_Ant1_2462



11G_Ant1_2412



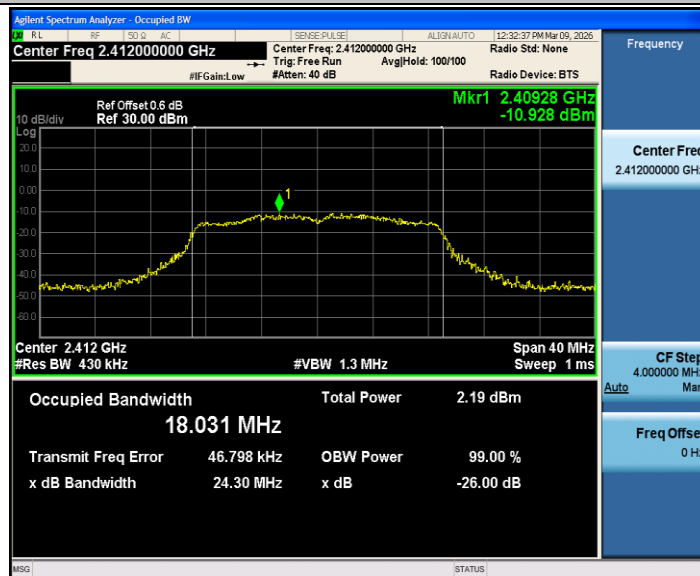
11G_Ant1_2437



11G_Ant1_2462



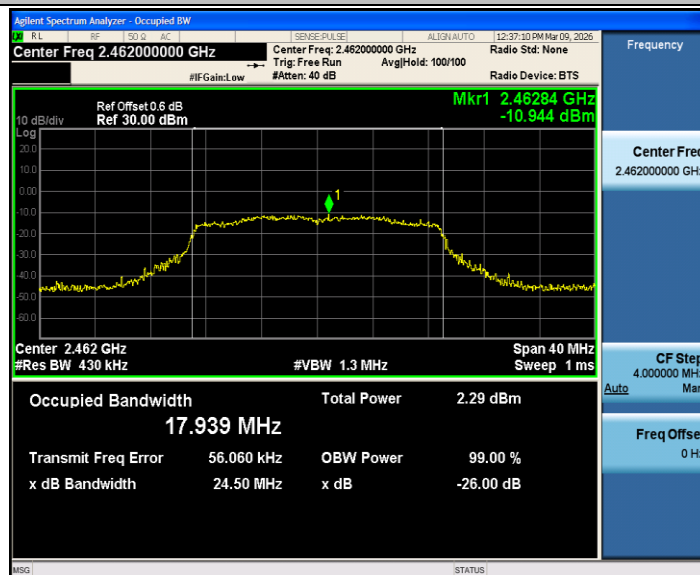
11N20SISO_Ant1_2412



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	5.01	≤30.00	PASS
		2437	5.11	≤30.00	PASS
		2462	5.14	≤30.00	PASS
11G	Ant1	2412	3.04	≤30.00	PASS
		2437	3.51	≤30.00	PASS
		2462	3.30	≤30.00	PASS
11N20SISO	Ant1	2412	3.08	≤30.00	PASS
		2437	3.33	≤30.00	PASS
		2462	3.16	≤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	-20.44	≤8.00	PASS
		2437	-21.02	≤8.00	PASS
		2462	-20.87	≤8.00	PASS
11G	Ant1	2412	-27.65	≤8.00	PASS
		2437	-27.77	≤8.00	PASS
		2462	-28.62	≤8.00	PASS
11N20SISO	Ant1	2412	-28.60	≤8.00	PASS
		2437	-28.41	≤8.00	PASS
		2462	-27.72	≤8.00	PASS

Test Graphs

11B_Ant1_2412



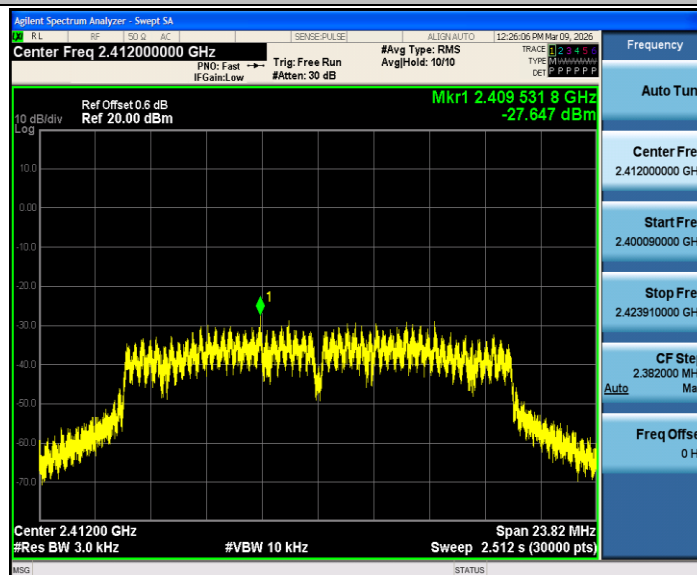
11B_Ant1_2437



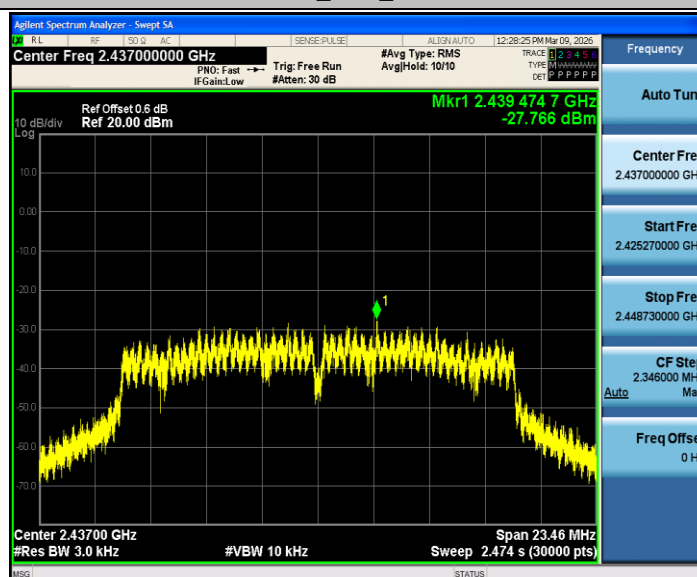
11B_Ant1_2462



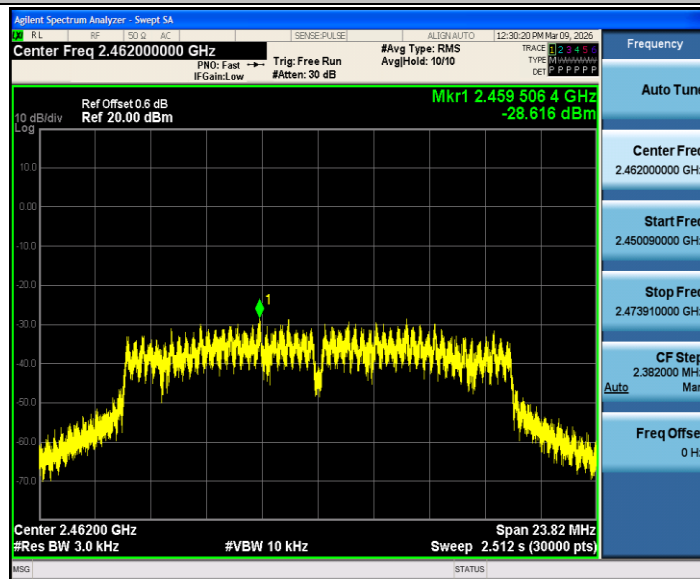
11G_Ant1_2412



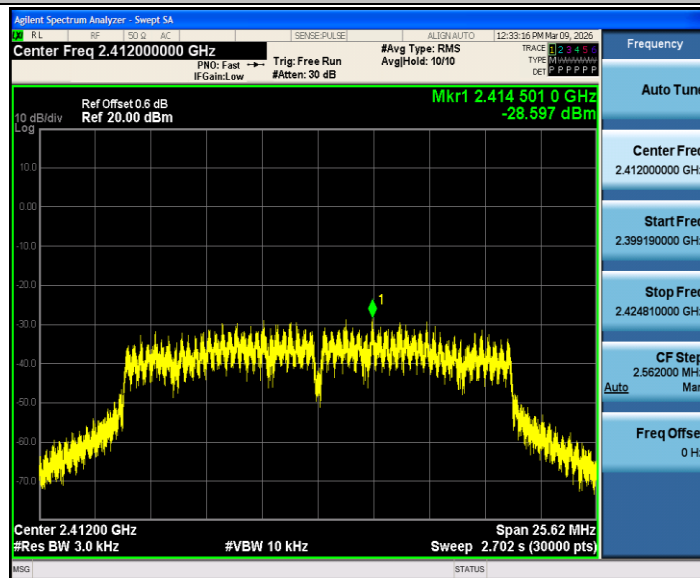
11G_Ant1_2437



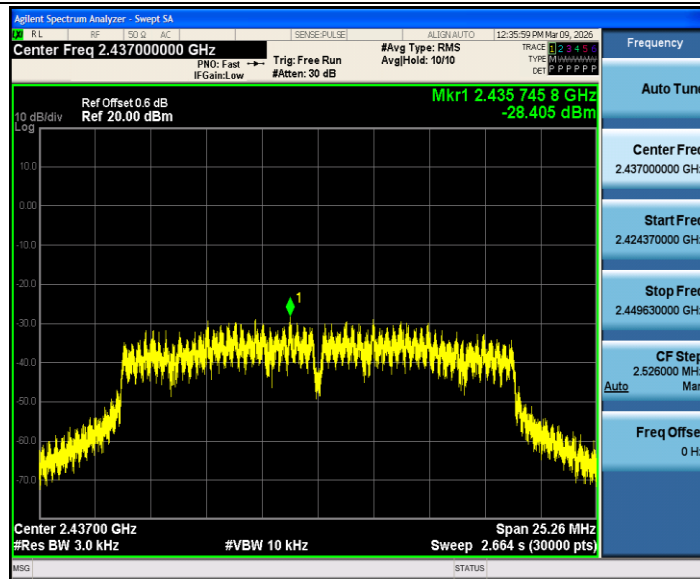
11G_Ant1_2462



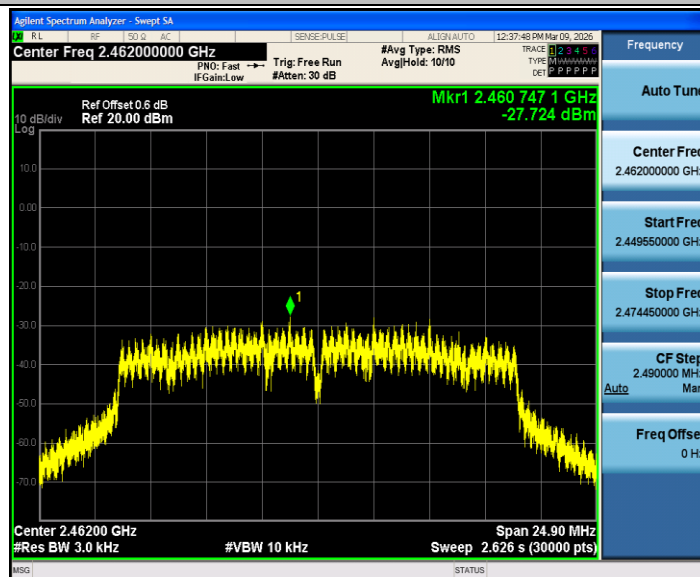
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



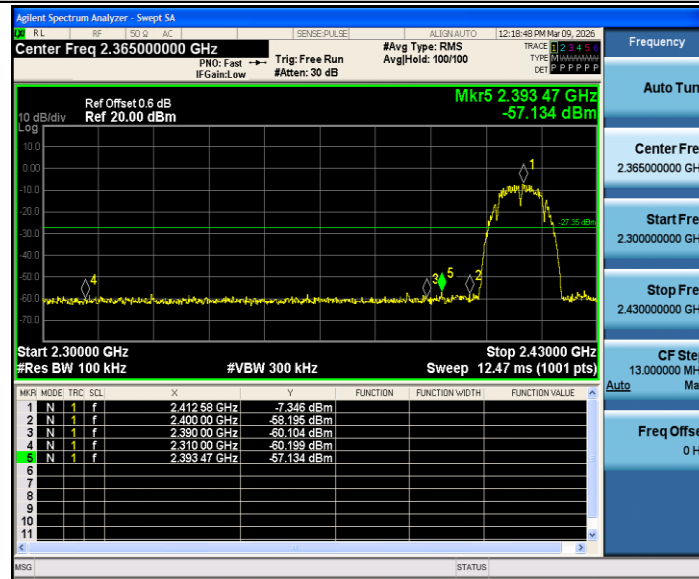
Appendix E: Band edge measurements

Test Result

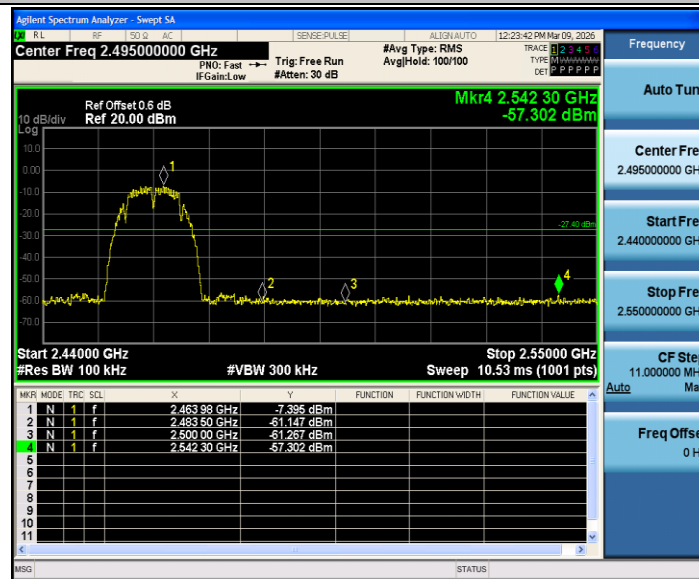
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-7.35	-57.13	≤-27.35	PASS
		High	2462	-7.40	-57.3	≤-27.4	PASS
11G	Ant1	Low	2412	-13.28	-45.03	≤-33.28	PASS
		High	2462	-13.07	-57.65	≤-33.07	PASS
11N20SISO	Ant1	Low	2412	-13.28	-44.76	≤-33.28	PASS
		High	2462	-13.10	-57.75	≤-33.1	PASS

Test Graphs

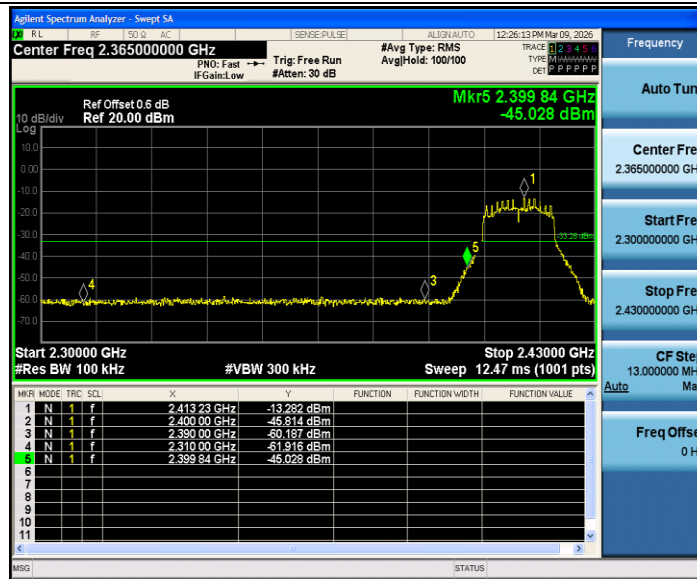
11B_Ant1_Low_2412



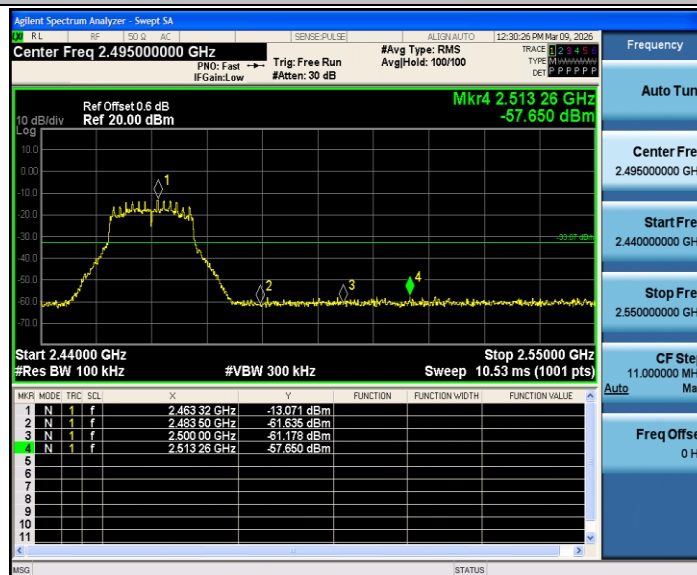
11B_Ant1_High_2462



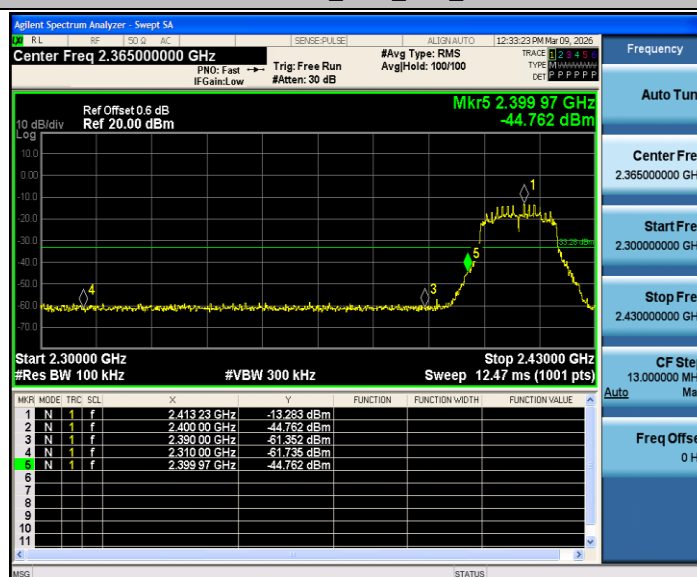
11G_Ant1_Low_2412



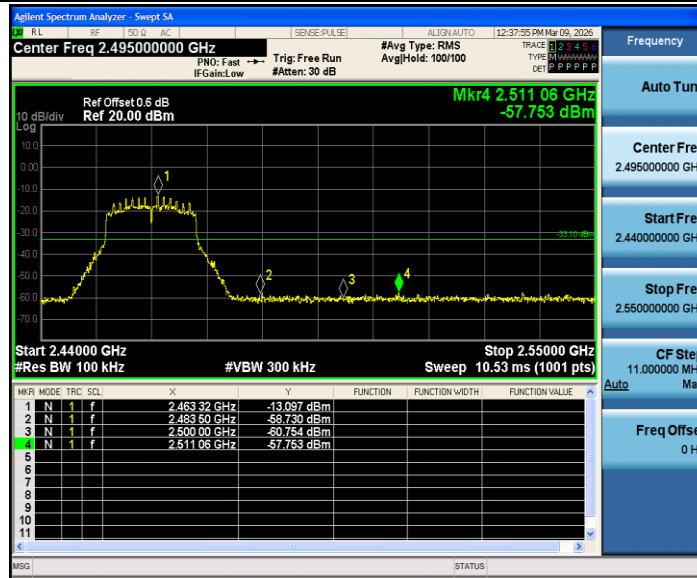
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



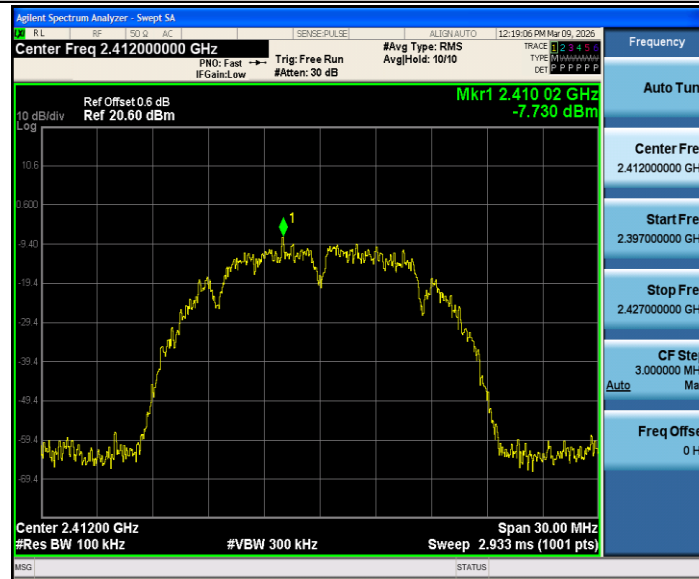
Appendix F: Conducted Spurious Emission

Test Result

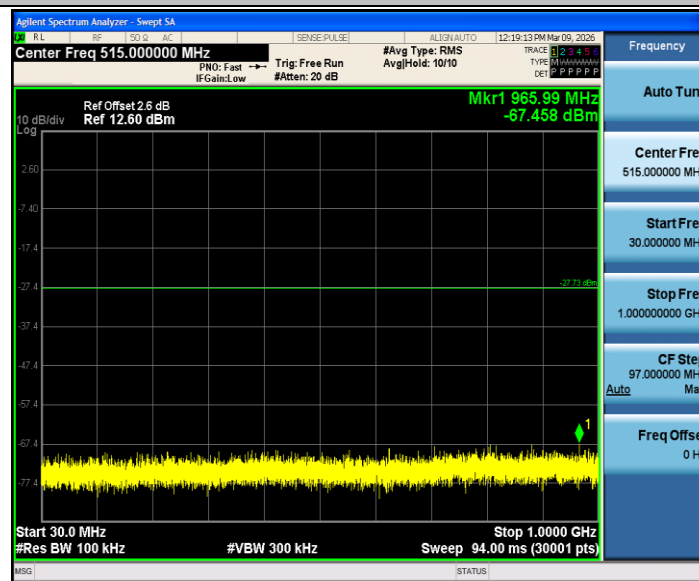
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-7.73	-7.73	---	PASS
			30~1000	-7.73	-67.46	≤-27.73	PASS
			1000~26500	-7.73	-54.87	≤-27.73	PASS
		2437	Reference	-8.17	-8.17	---	PASS
			30~1000	-8.17	-67.8	≤-28.17	PASS
			1000~26500	-8.17	-55.03	≤-28.17	PASS
		2462	Reference	-7.64	-7.64	---	PASS
			30~1000	-7.64	-68.2	≤-27.64	PASS
			1000~26500	-7.64	-54.83	≤-27.64	PASS
11G	Ant1	2412	Reference	-13.97	-13.97	---	PASS
			30~1000	-13.97	-67.86	≤-33.97	PASS
			1000~26500	-13.97	-55.33	≤-33.97	PASS
		2437	Reference	-12.94	-12.94	---	PASS
			30~1000	-12.94	-67.83	≤-32.94	PASS
			1000~26500	-12.94	-55.02	≤-32.94	PASS
		2462	Reference	-13.68	-13.68	---	PASS
			30~1000	-13.68	-42.18	≤-33.68	PASS
			1000~26500	-13.68	-54.85	≤-33.68	PASS
11N20SISO	Ant1	2412	Reference	-14.00	-14.00	---	PASS
			30~1000	-14.00	-67.58	≤-34	PASS
			1000~26500	-14.00	-55.44	≤-34	PASS
		2437	Reference	-13.27	-13.27	---	PASS
			30~1000	-13.27	-67.75	≤-33.27	PASS
			1000~26500	-13.27	-55.11	≤-33.27	PASS
		2462	Reference	-13.54	-13.54	---	PASS
			30~1000	-13.54	-66.78	≤-33.54	PASS
			1000~26500	-13.54	-55.21	≤-33.54	PASS

Test Graphs

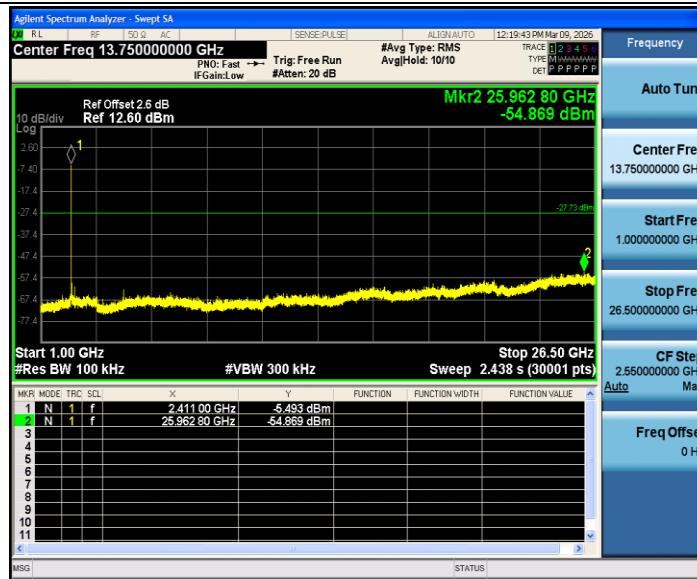
11B_Ant1_2412_0~Reference



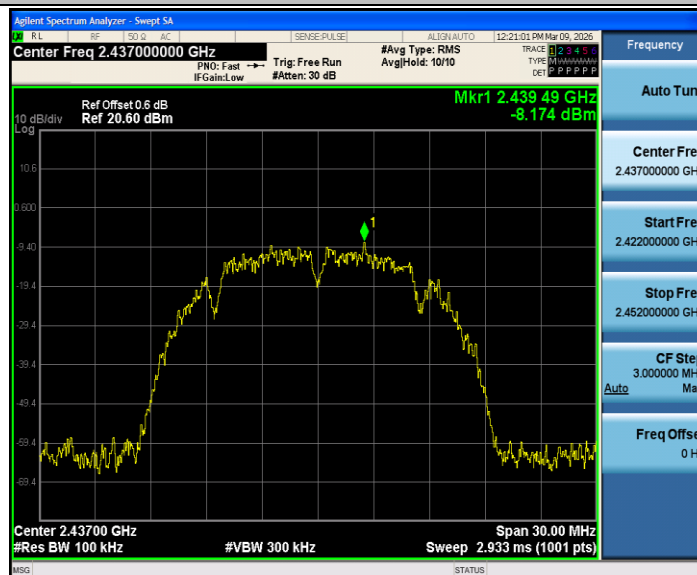
11B_Ant1_2412_30~1000



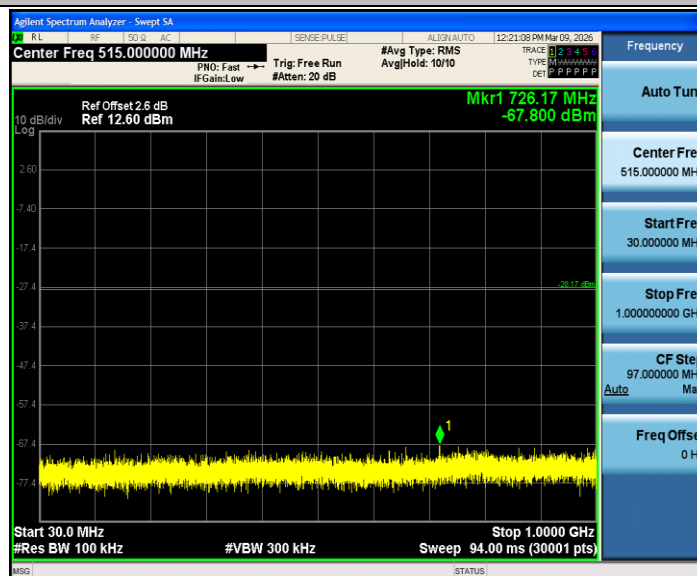
11B_Ant1_2412_1000~26500



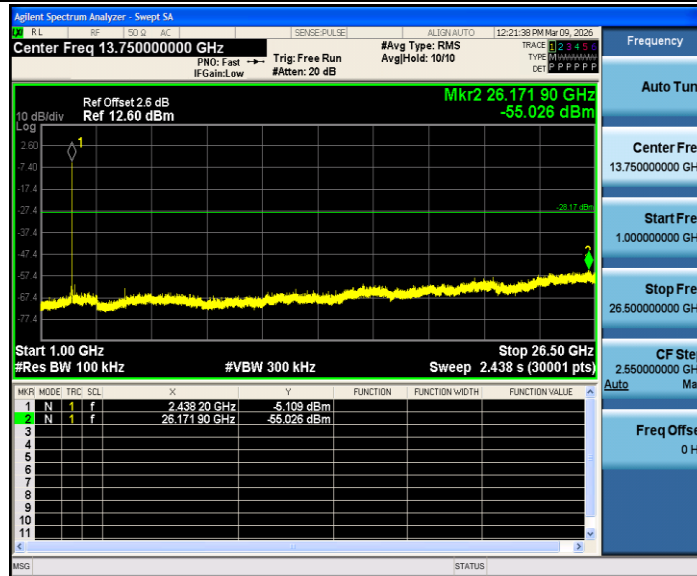
11B_Ant1_2437_0~Reference



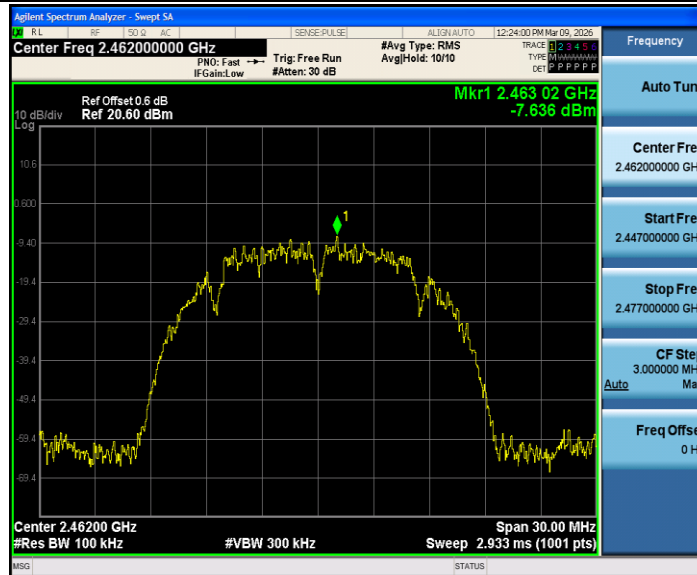
11B_Ant1_2437_30~1000



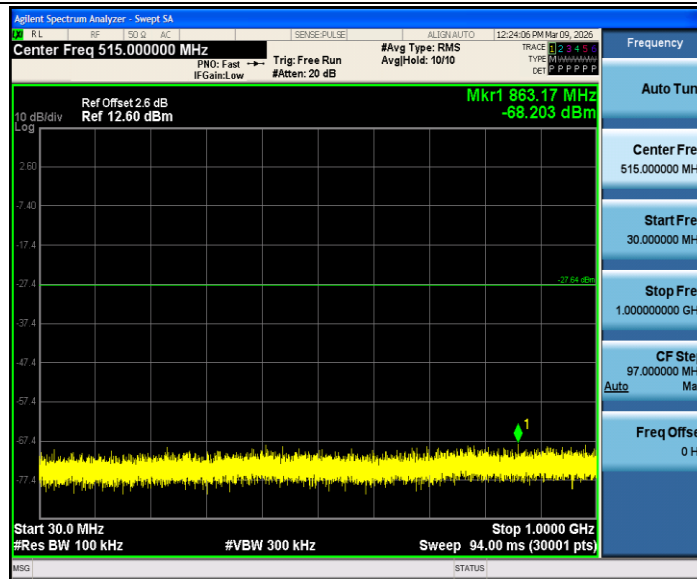
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



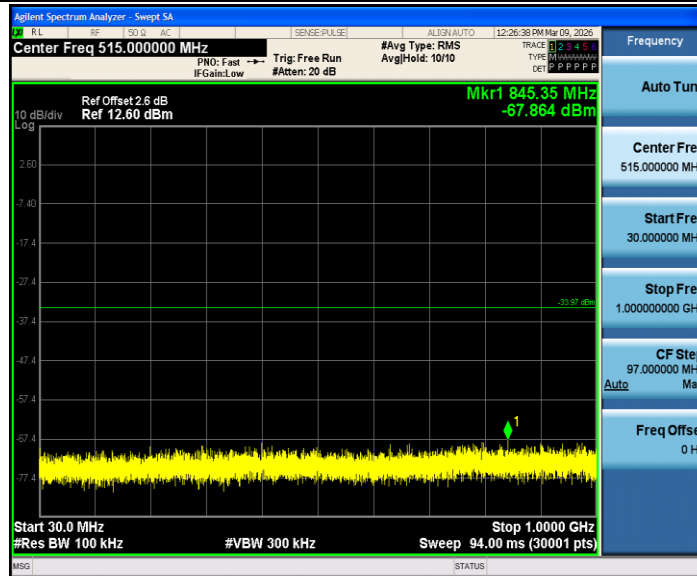
11B_Ant1_2462_1000~26500



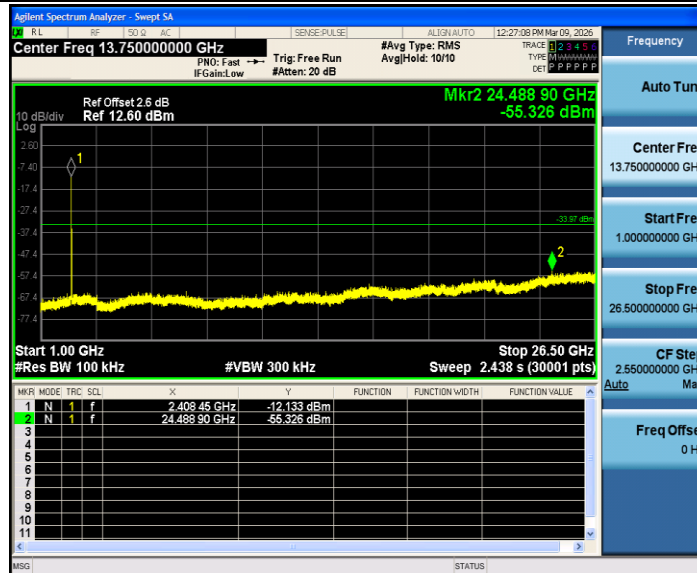
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



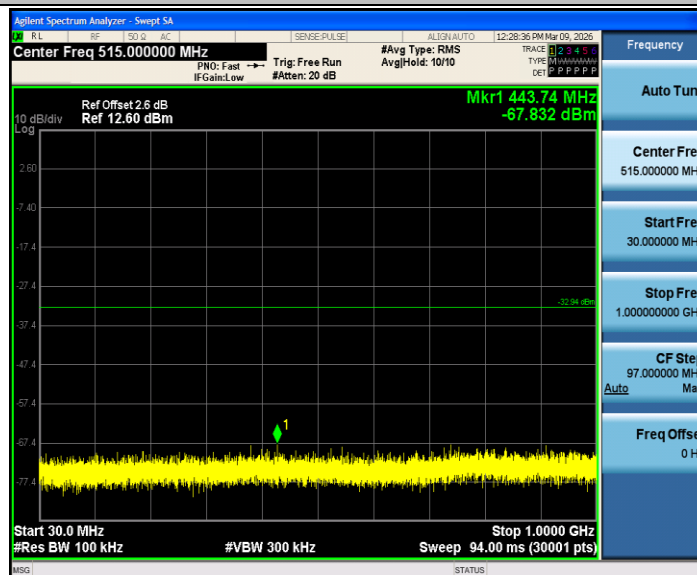
11G_Ant1_2412_1000~26500



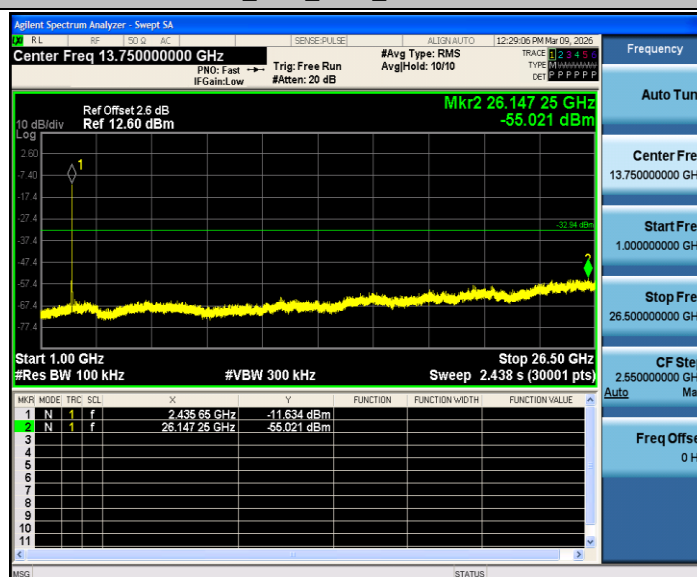
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



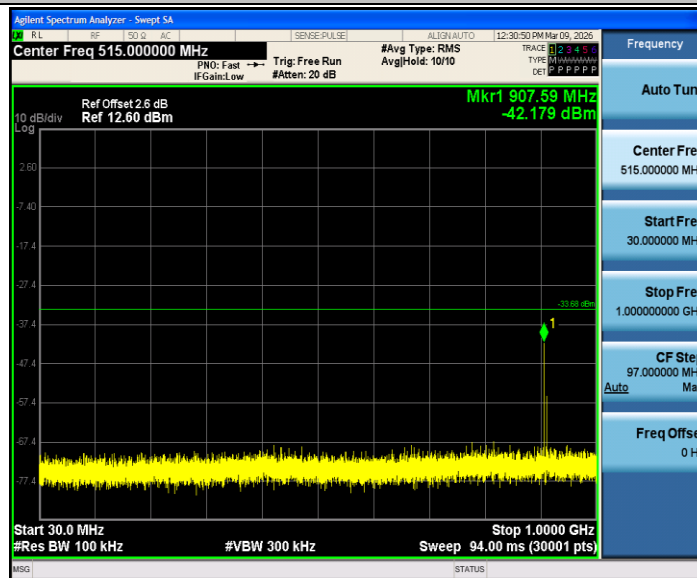
11G_Ant1_2437_1000~26500



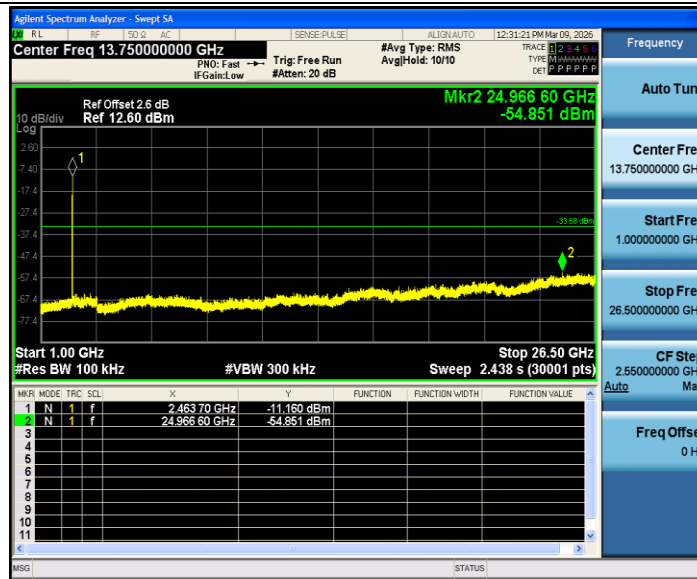
11G_Ant1_2462_0~Reference



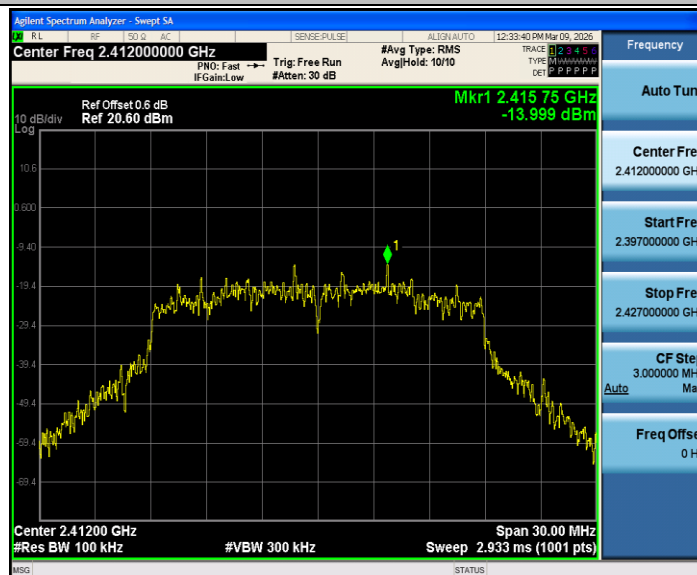
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

