

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A6P9-AS-MIR01

Company : Promaster Electronic LLC

EUT : Wireless CP&AA adaptor

Model Number : AS-MIR-003

Report No. : CTA26042700302

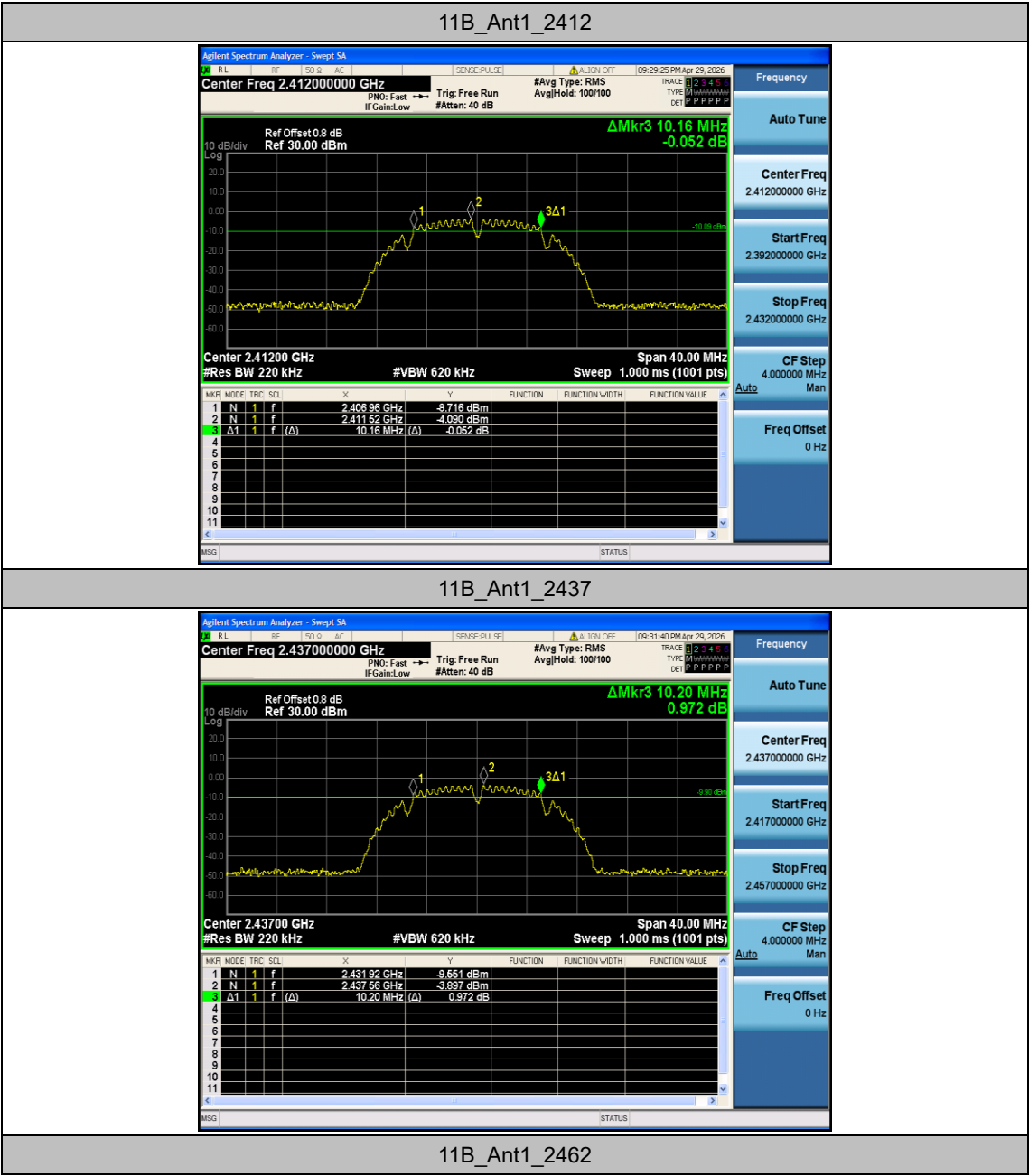
Reviewed By : Eric Wang

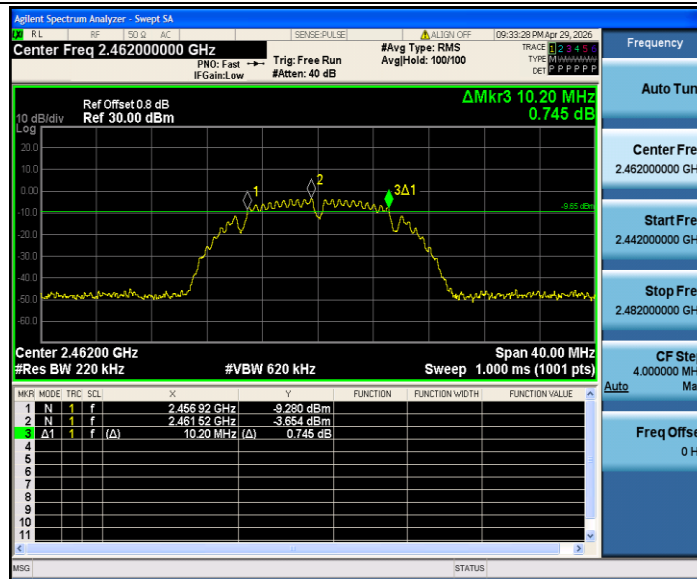
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.160	2406.960	2417.120	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	15.880	2404.000	2419.880	0.5	PASS
		2437	15.880	2429.120	2445.000	0.5	PASS
		2462	15.800	2454.120	2469.920	0.5	PASS
11N20SISO	Ant1	2412	15.760	2404.080	2419.840	0.5	PASS
		2437	16.000	2429.440	2445.440	0.5	PASS
		2462	16.880	2453.480	2470.360	0.5	PASS
11N40SISO	Ant1	2422	34.560	2405.280	2439.840	0.5	PASS
		2437	35.680	2419.240	2454.920	0.5	PASS
		2452	36.000	2434.000	2470.000	0.5	PASS

Test Graphs

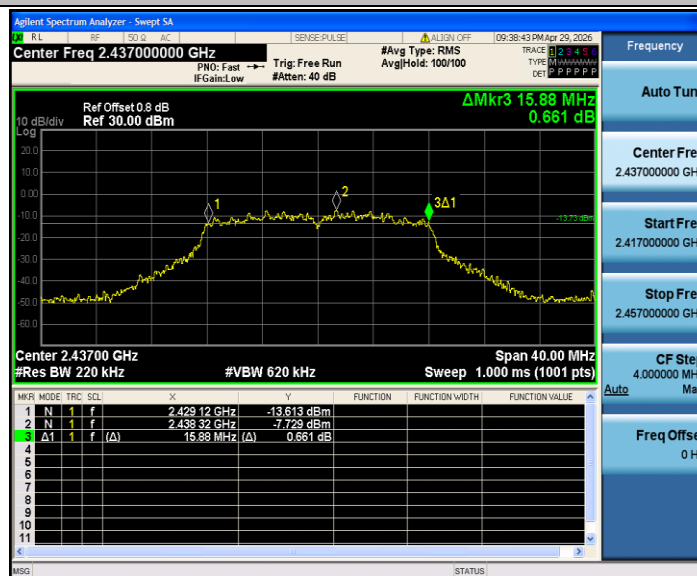




11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



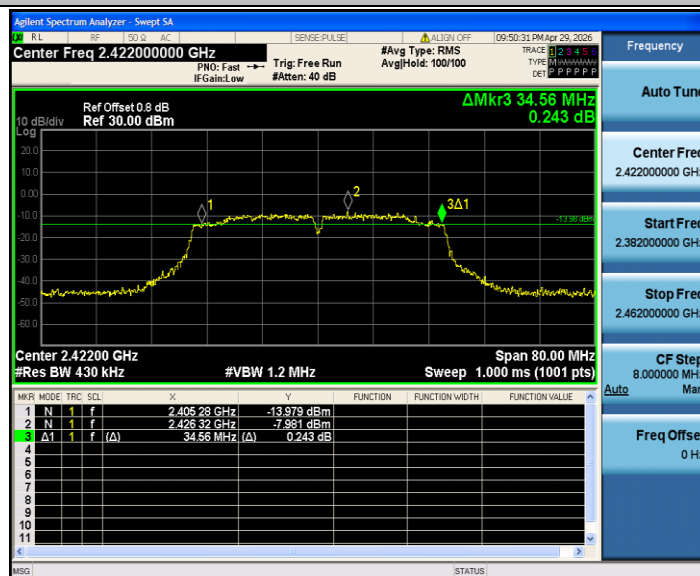
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



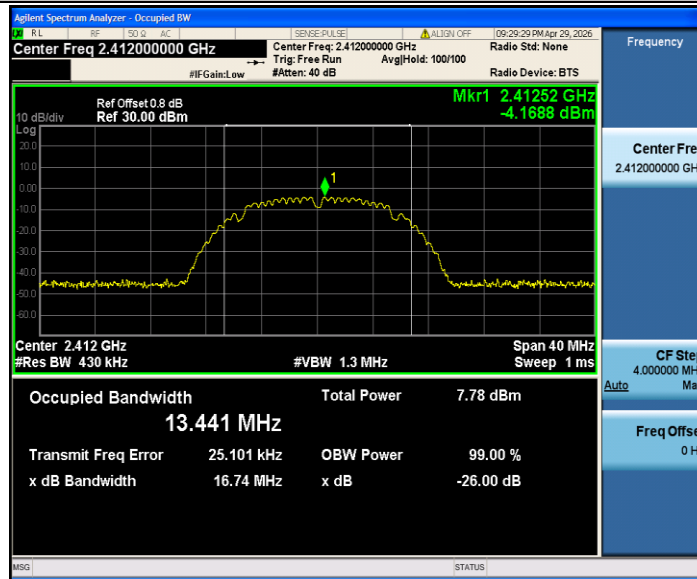
Appendix B: Occupied Channel Bandwidth

Test Result

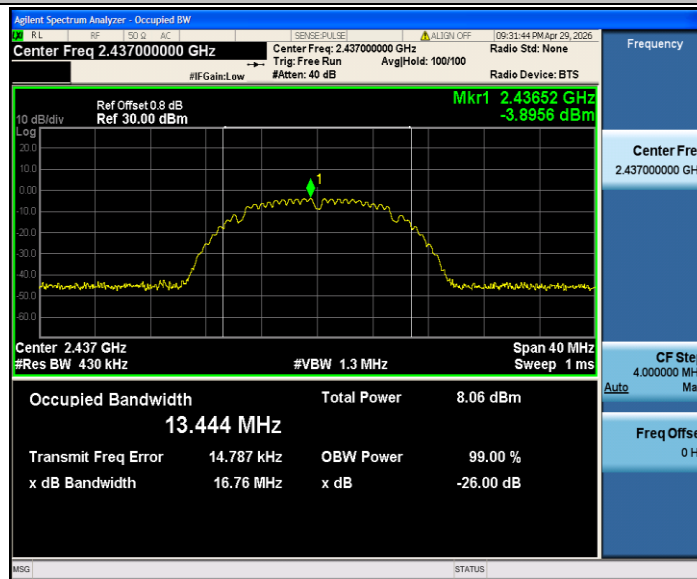
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.441	2405.3046	2418.7456	---	---
		2437	13.444	2430.2928	2443.7368	---	---
		2462	13.454	2455.2866	2468.7406	---	---
11G	Ant1	2412	16.858	2403.6358	2420.4938	---	---
		2437	16.854	2428.5973	2445.4513	---	---
		2462	16.863	2453.6045	2470.4675	---	---
11N20SISO	Ant1	2412	18.010	2402.9851	2420.9951	---	---
		2437	17.929	2428.0939	2446.0229	---	---
		2462	17.920	2453.0704	2470.9904	---	---
11N40SISO	Ant1	2422	36.067	2404.0383	2440.1053	---	---
		2437	36.080	2419.0800	2455.1600	---	---
		2452	36.060	2434.1132	2470.1732	---	---

Test Graphs

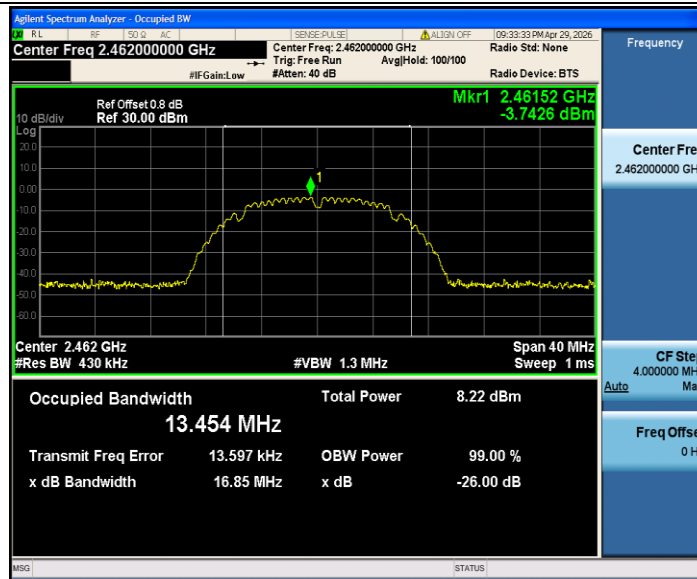
11B_Ant1_2412



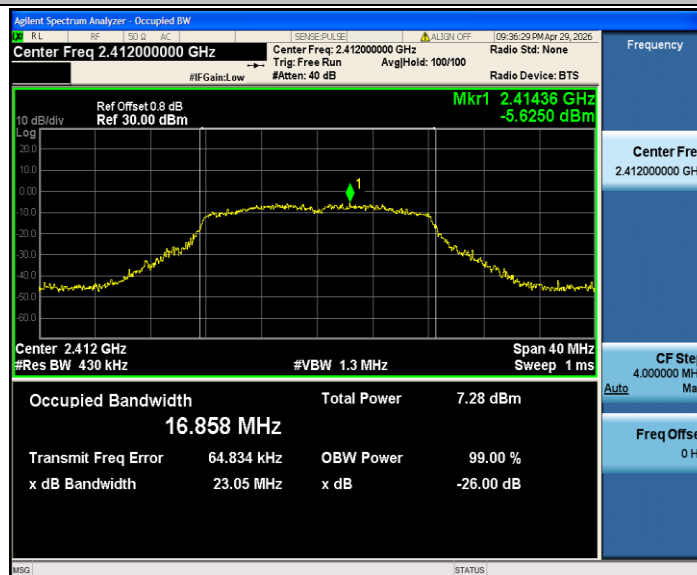
11B_Ant1_2437



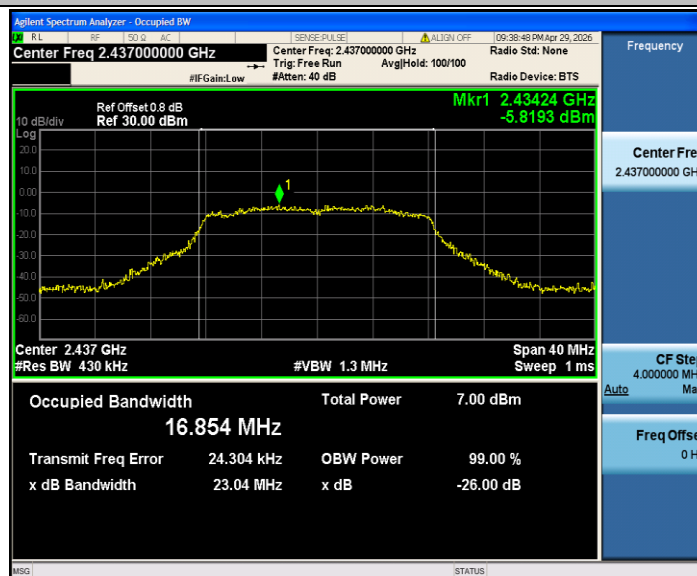
11B_Ant1_2462



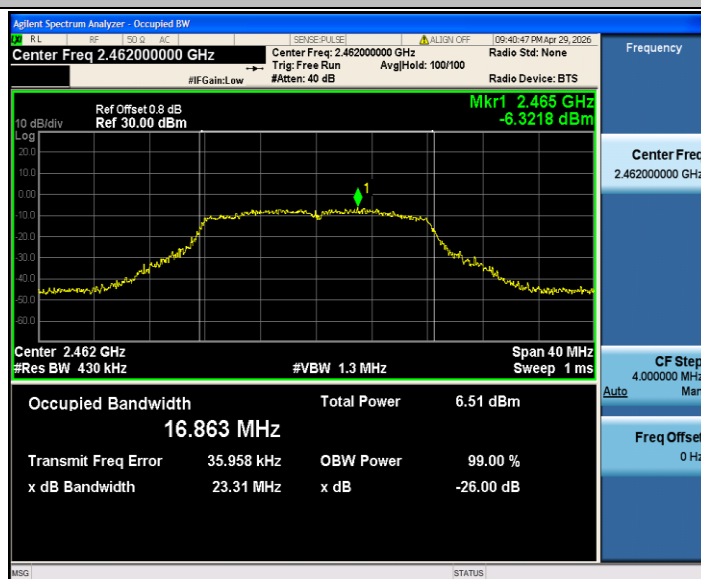
11G_Ant1_2412



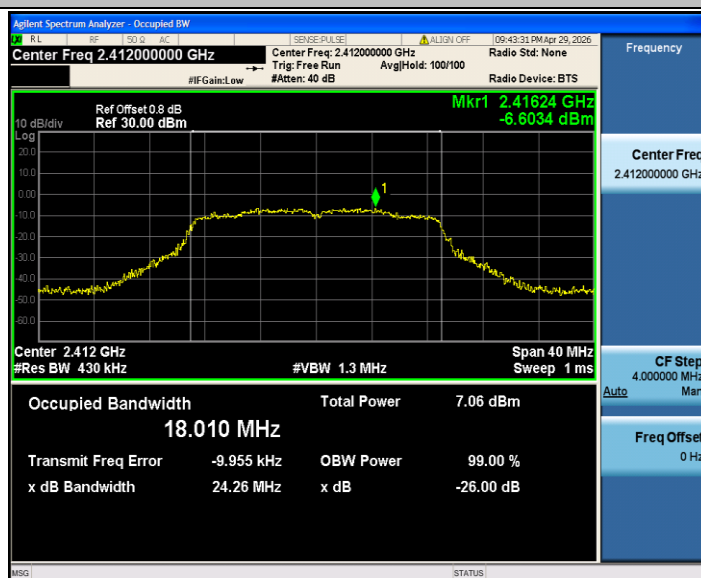
11G_Ant1_2437



11G_Ant1_2462



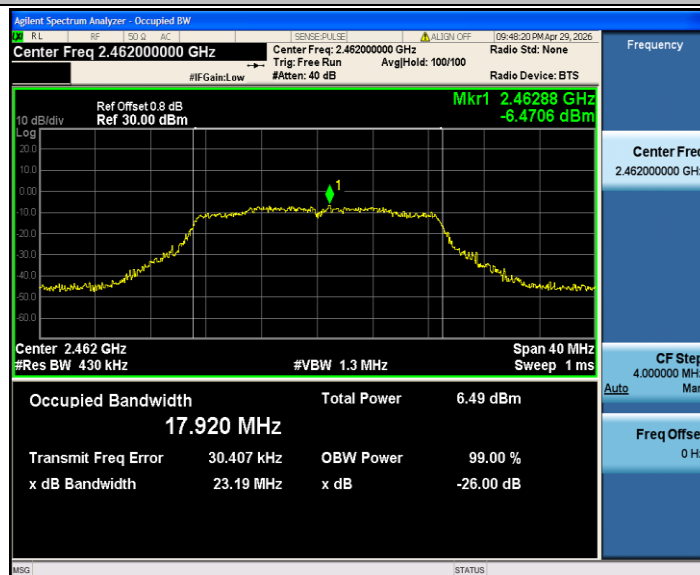
11N20SISO_Ant1_2412



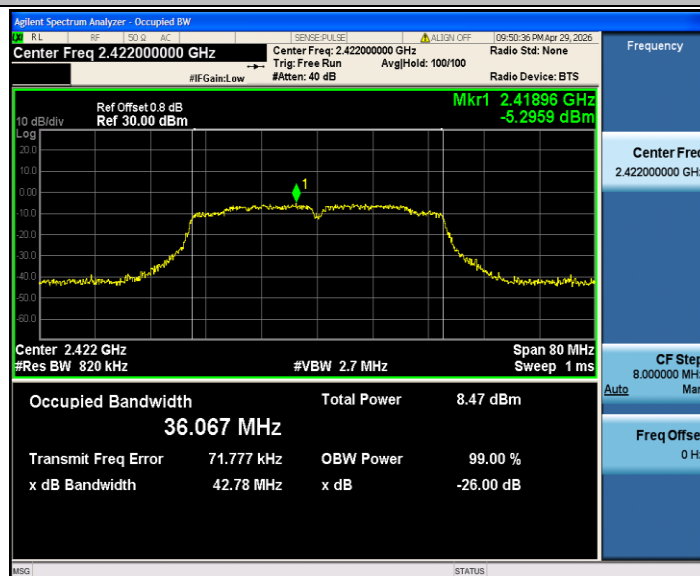
11N20SISO_Ant1_2437



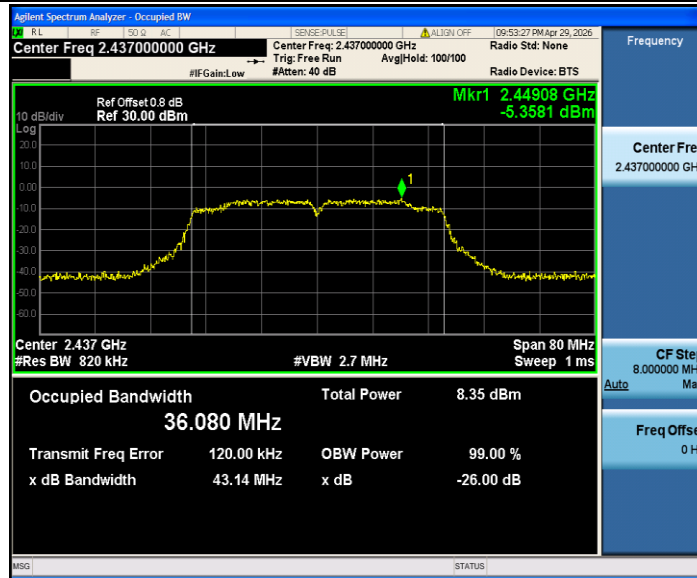
11N20SISO_Ant1_2462



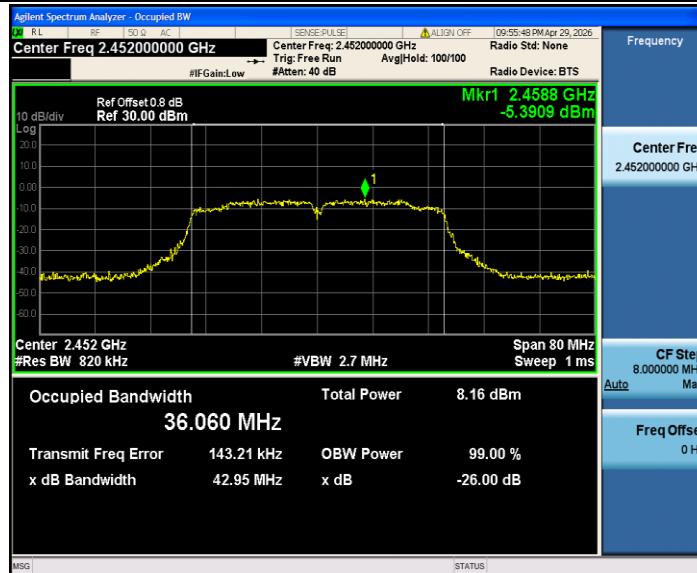
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	7.44	≤30.00	PASS
		2437	7.72	≤30.00	PASS
		2462	7.86	≤30.00	PASS
11G	Ant1	2412	8.16	≤30.00	PASS
		2437	7.96	≤30.00	PASS
		2462	7.51	≤30.00	PASS
11N20SISO	Ant1	2412	7.83	≤30.00	PASS
		2437	7.66	≤30.00	PASS
		2462	7.32	≤30.00	PASS
11N40SISO	Ant1	2422	8.60	≤30.00	PASS
		2437	8.53	≤30.00	PASS
		2452	8.30	≤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	-17.71	≤8.00	PASS
		2437	-18.44	≤8.00	PASS
		2462	-17.82	≤8.00	PASS
11G	Ant1	2412	-23.42	≤8.00	PASS
		2437	-23.75	≤8.00	PASS
		2462	-24.34	≤8.00	PASS
11N20SISO	Ant1	2412	-23.04	≤8.00	PASS
		2437	-23.07	≤8.00	PASS
		2462	-22.99	≤8.00	PASS
11N40SISO	Ant1	2422	-26.40	≤8.00	PASS
		2437	-24.92	≤8.00	PASS
		2452	-25.98	≤8.00	PASS

Test Graphs

11B_Ant1_2412



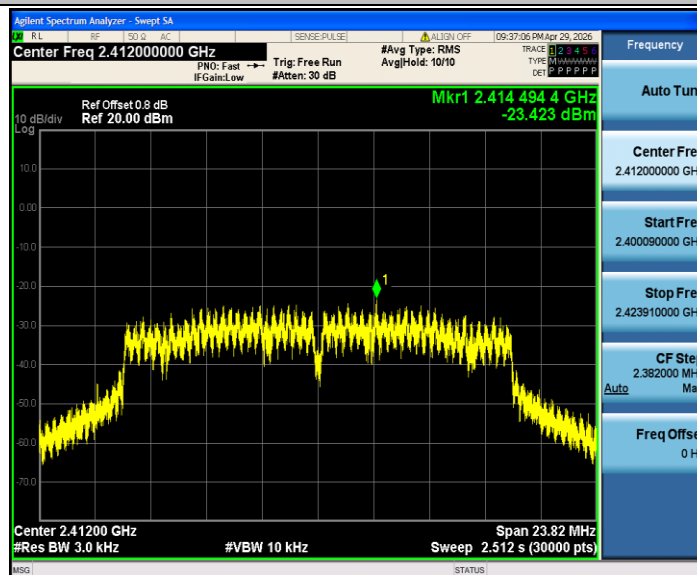
11B_Ant1_2437



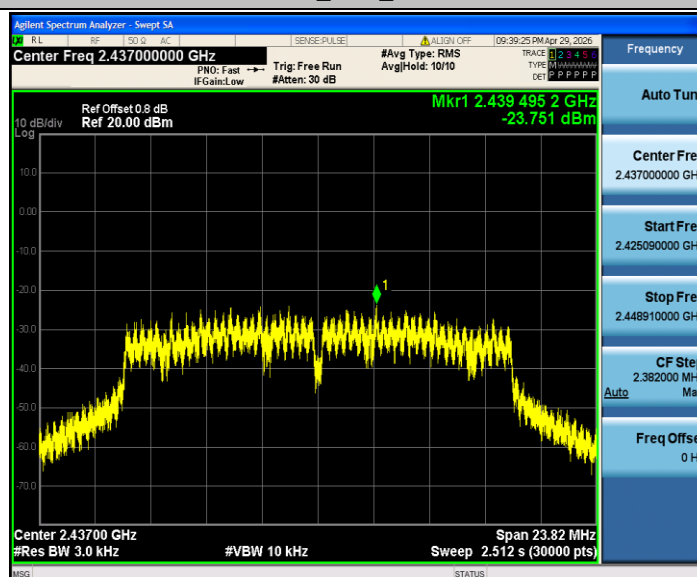
11B_Ant1_2462



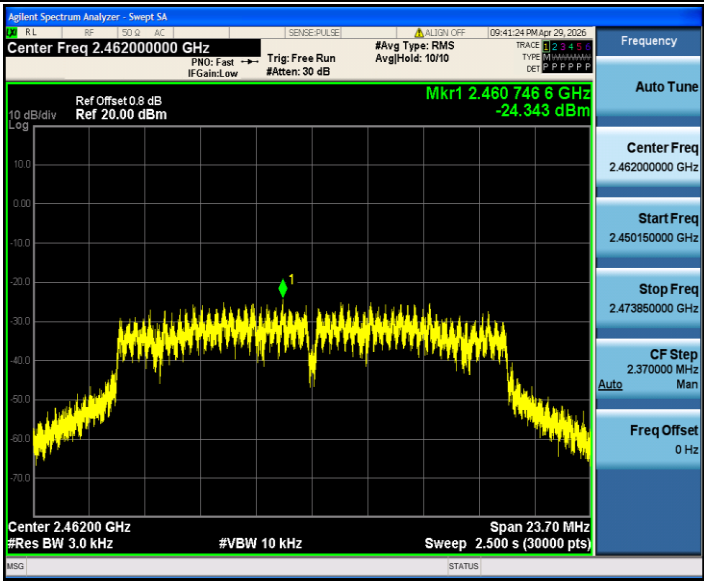
11G_Ant1_2412



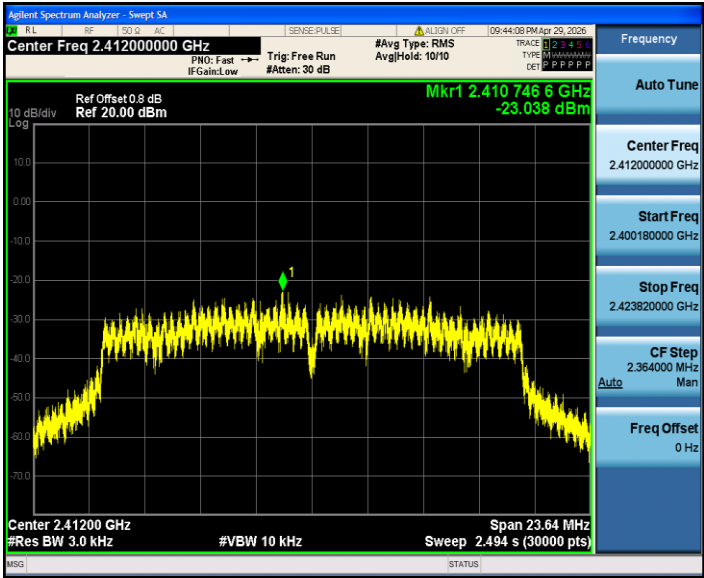
11G_Ant1_2437



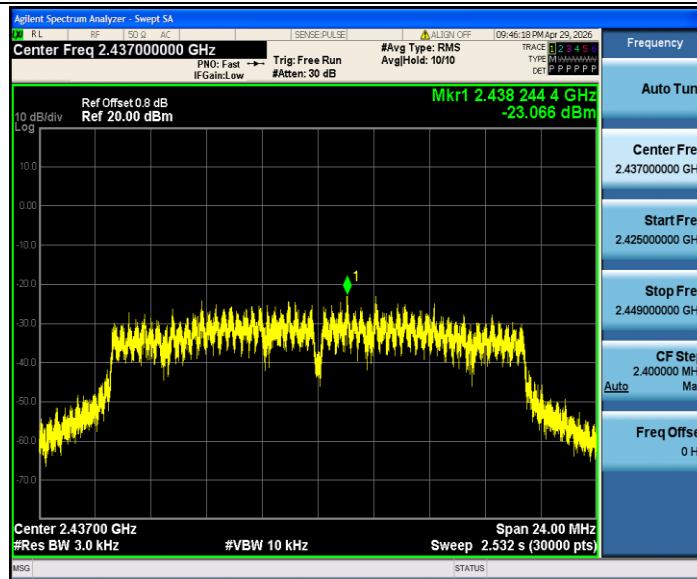
11G_Ant1_2462



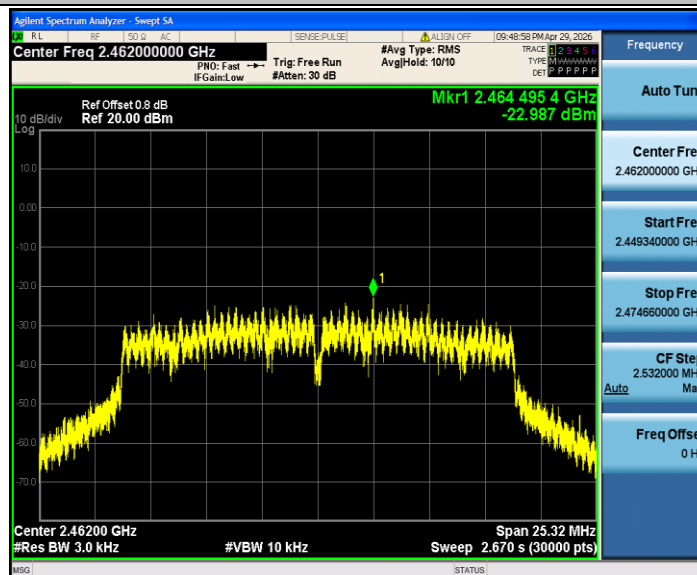
11N20SISO_Ant1_2412



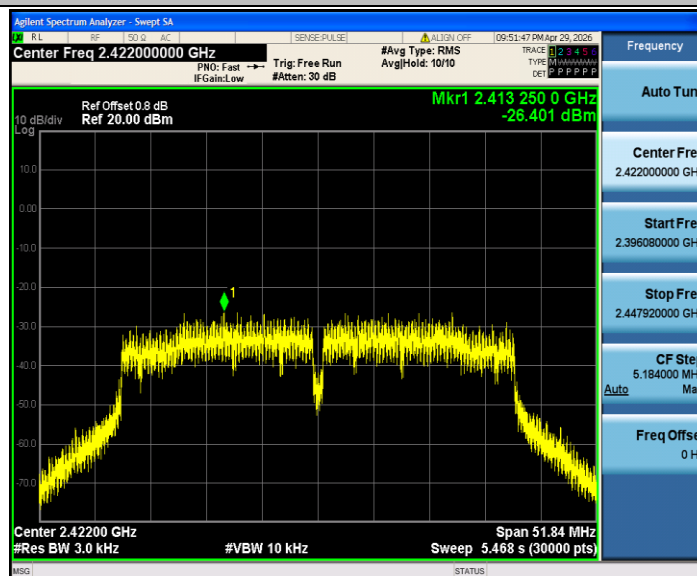
11N20SISO_Ant1_2437



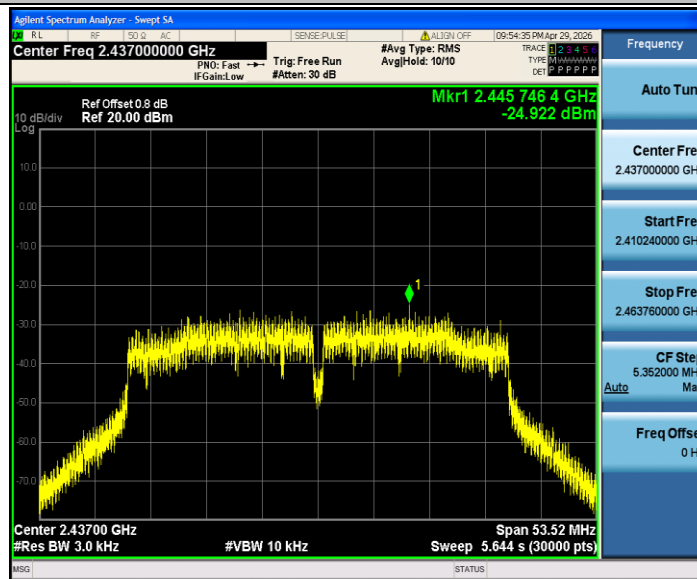
11N20SISO_Ant1_2462



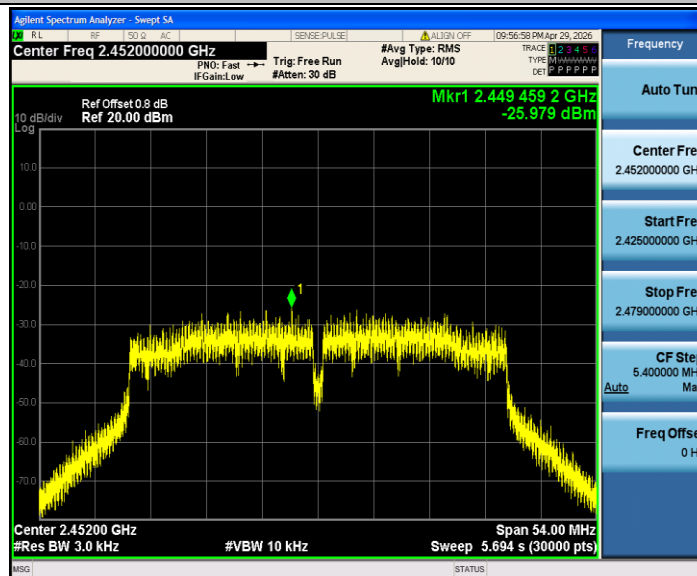
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



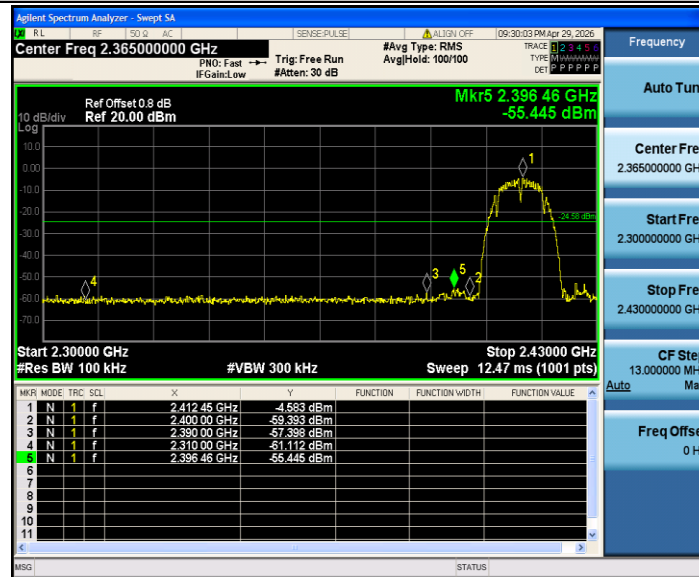
Appendix E: Band edge measurements

Test Result

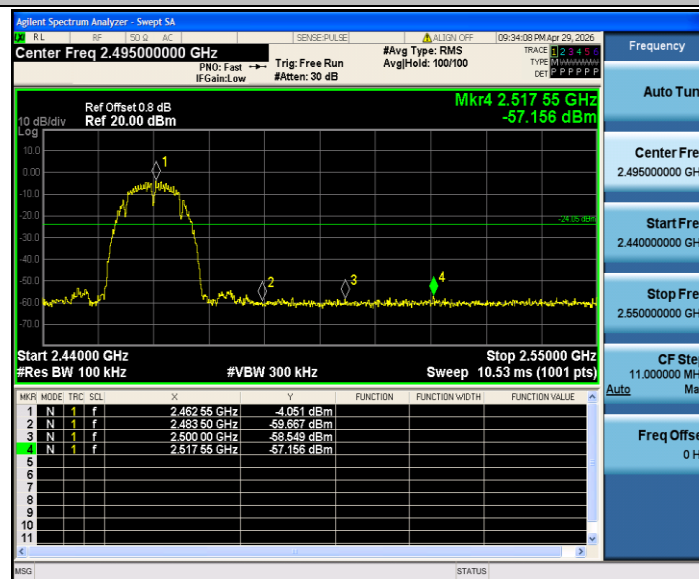
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.58	-55.45	≤-24.58	PASS
		High	2462	-4.05	-57.16	≤-24.05	PASS
11G	Ant1	Low	2412	-8.72	-39.08	≤-28.72	PASS
		High	2462	-8.92	-57.37	≤-28.92	PASS
11N20SISO	Ant1	Low	2412	-8.28	-39.4	≤-28.28	PASS
		High	2462	-8.89	-57.94	≤-28.89	PASS
11N40SISO	Ant1	Low	2422	-11.34	-38.57	≤-31.34	PASS
		High	2452	-11.66	-57.54	≤-31.66	PASS

Test Graphs

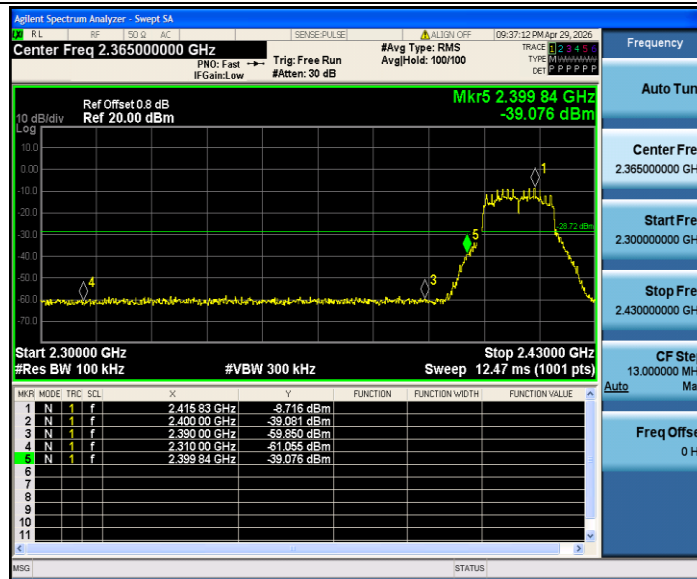
11B_Ant1_Low_2412



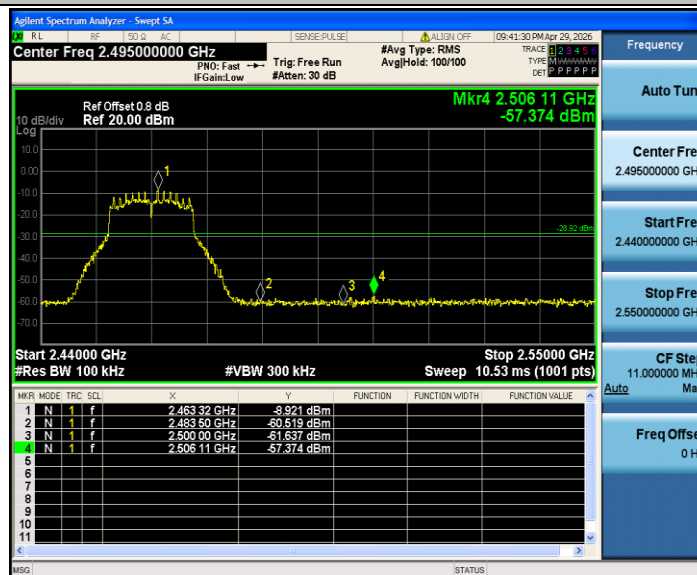
11B_Ant1_High_2462



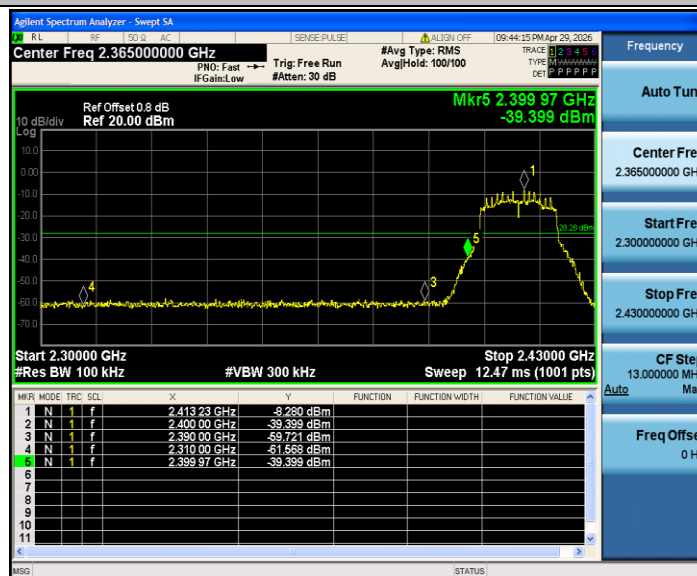
11G_Ant1_Low_2412



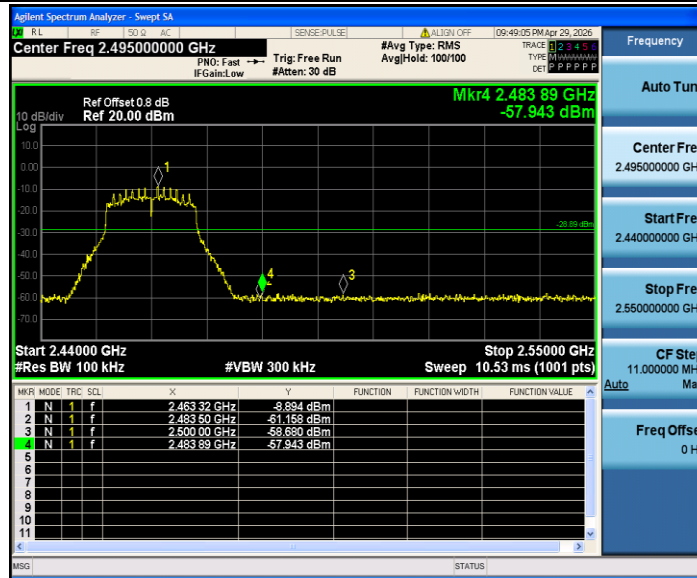
11G_Ant1_High_2462



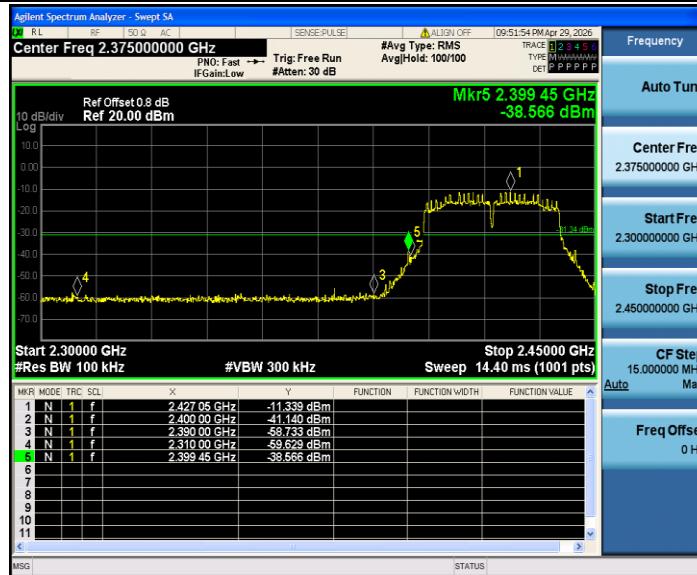
11N20SISO_Ant1_Low_2412



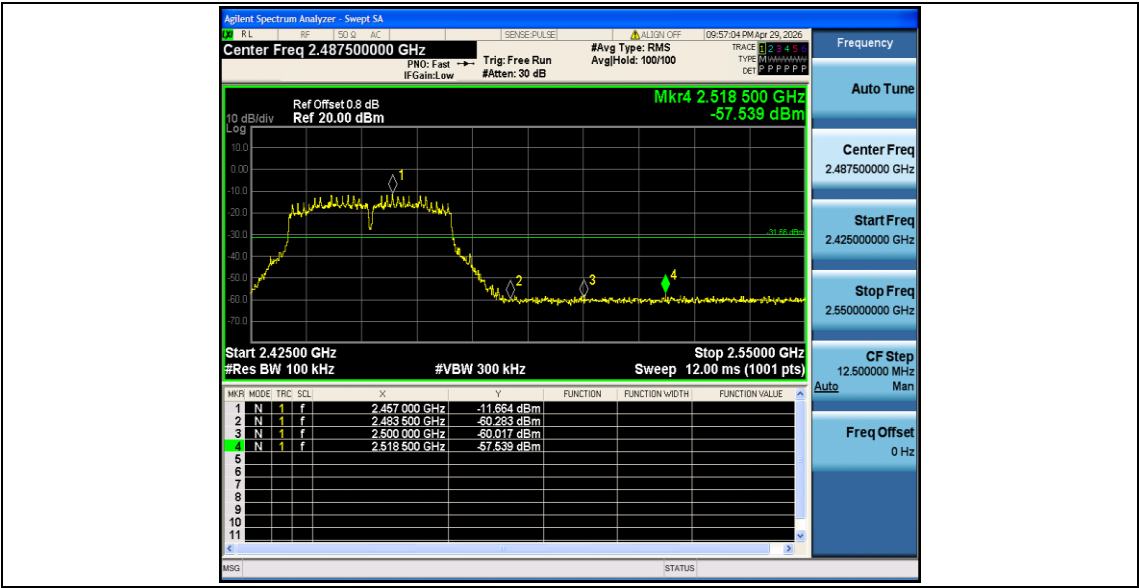
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

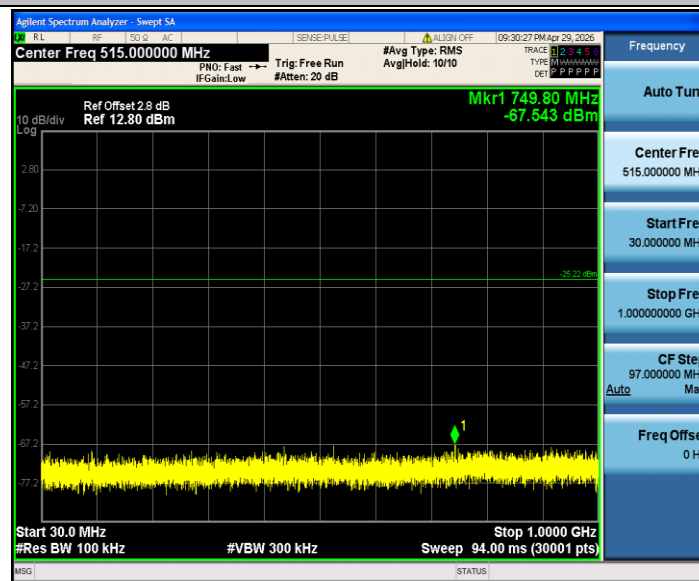
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.22	-5.22	---	PASS
			30~1000	-5.22	-67.54	≤-25.22	PASS
			1000~26500	-5.22	-55	≤-25.22	PASS
		2437	Reference	-4.41	-4.41	---	PASS
			30~1000	-4.41	-68.37	≤-24.41	PASS
			1000~26500	-4.41	-55.2	≤-24.41	PASS
		2462	Reference	-4.98	-4.98	---	PASS
			30~1000	-4.98	-67.16	≤-24.98	PASS
			1000~26500	-4.98	-54.95	≤-24.98	PASS
11G	Ant1	2412	Reference	-8.63	-8.63	---	PASS
			30~1000	-8.63	-67.09	≤-28.63	PASS
			1000~26500	-8.63	-55.32	≤-28.63	PASS
		2437	Reference	-9.42	-9.42	---	PASS
			30~1000	-9.42	-66.51	≤-29.42	PASS
			1000~26500	-9.42	-55.52	≤-29.42	PASS
		2462	Reference	-9.49	-9.49	---	PASS
			30~1000	-9.49	-66.96	≤-29.49	PASS
			1000~26500	-9.49	-55.26	≤-29.49	PASS
11N20SISO	Ant1	2412	Reference	-8.31	-8.31	---	PASS
			30~1000	-8.31	-67.95	≤-28.31	PASS
			1000~26500	-8.31	-55.22	≤-28.31	PASS
		2437	Reference	-8.89	-8.89	---	PASS
			30~1000	-8.89	-67.42	≤-28.89	PASS
			1000~26500	-8.89	-55.58	≤-28.89	PASS
		2462	Reference	-9.26	-9.26	---	PASS
			30~1000	-9.26	-67.53	≤-29.26	PASS
			1000~26500	-9.26	-55.11	≤-29.26	PASS
11N40SISO	Ant1	2422	Reference	-11.79	-11.79	---	PASS
			30~1000	-11.79	-67.82	≤-31.79	PASS
			1000~26500	-11.79	-55.65	≤-31.79	PASS
		2437	Reference	-11.55	-11.55	---	PASS
			30~1000	-11.55	-68.1	≤-31.55	PASS
			1000~26500	-11.55	-55.51	≤-31.55	PASS
		2452	Reference	-12.22	-12.22	---	PASS
			30~1000	-12.22	-67.56	≤-32.22	PASS
			1000~26500	-12.22	-54.11	≤-32.22	PASS

Test Graphs

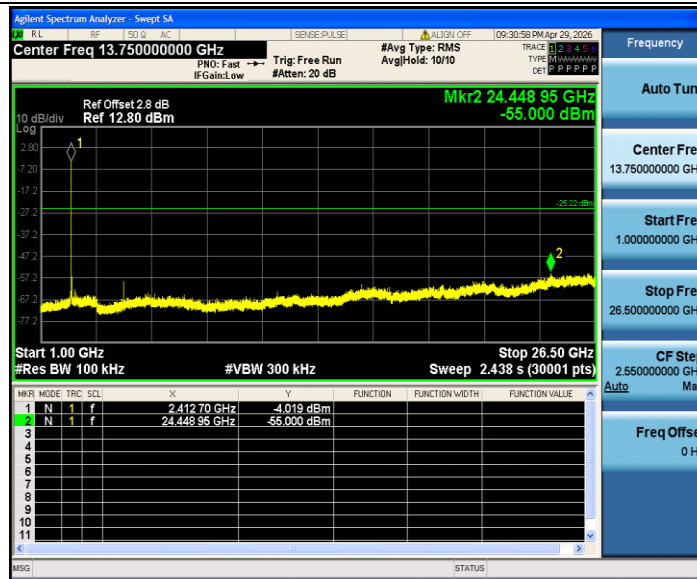
11B_Ant1_2412_0~Reference



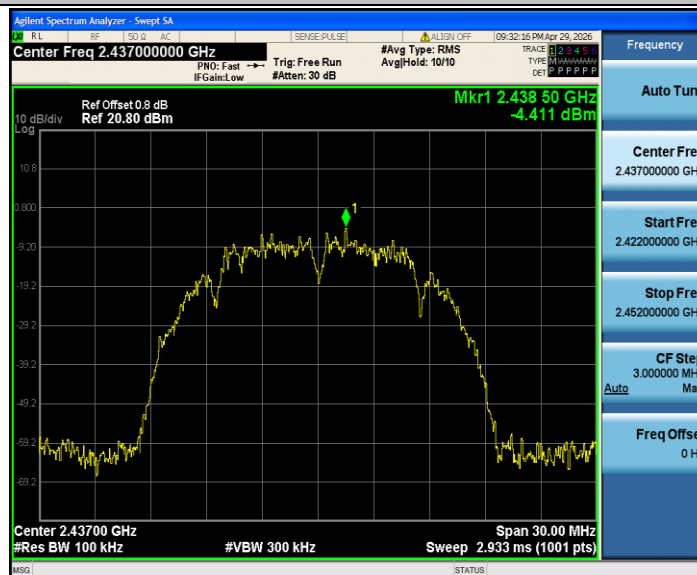
11B_Ant1_2412_30~1000



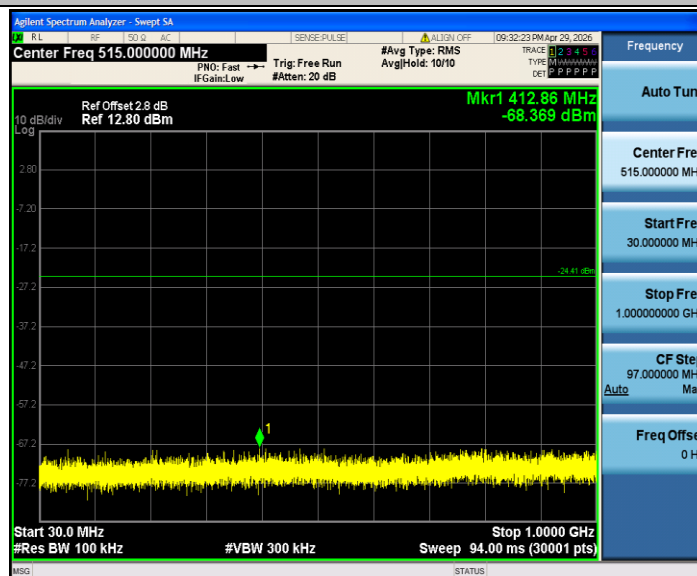
11B_Ant1_2412_1000~26500



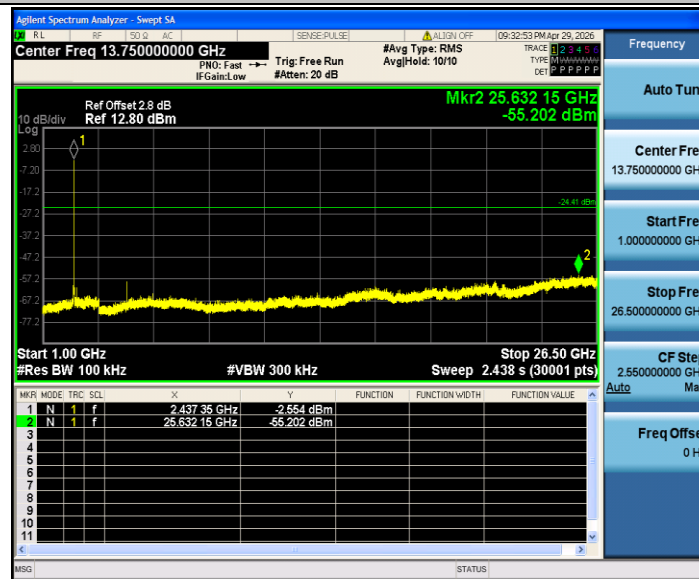
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



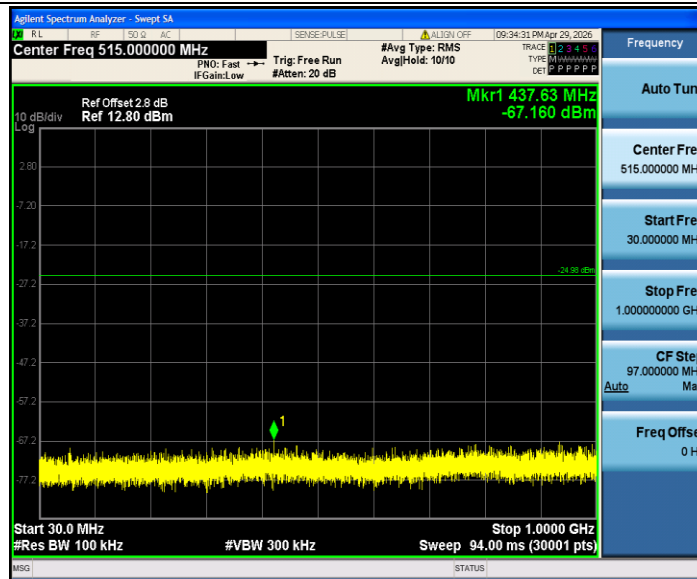
11B_Ant1_2437_1000~26500



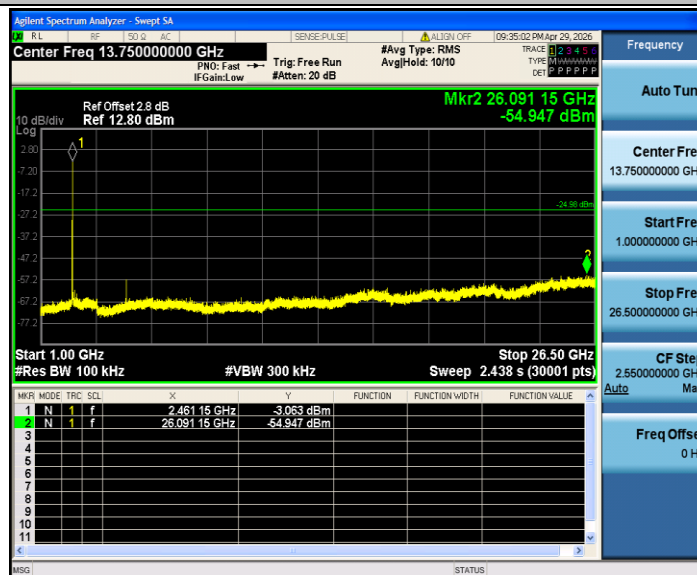
11B_Ant1_2462_0~Reference



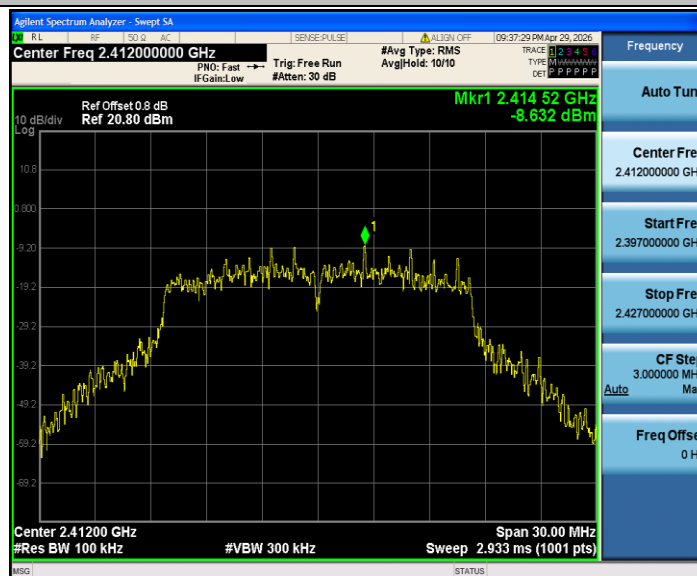
11B_Ant1_2462_30~1000



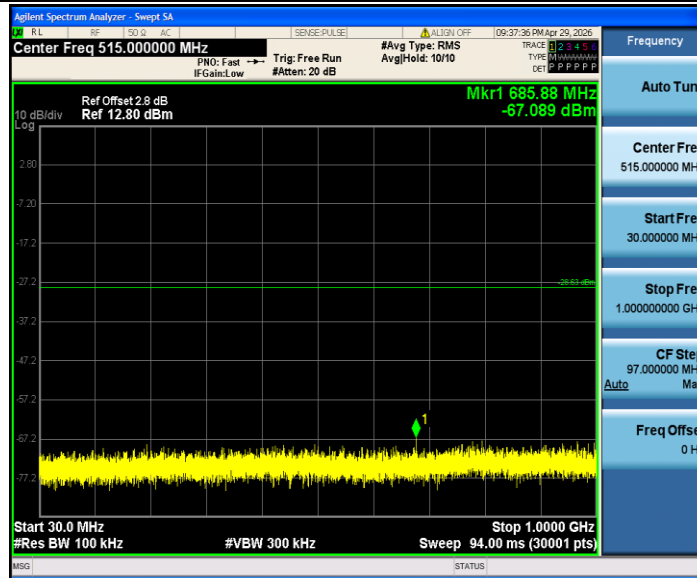
11B_Ant1_2462_1000~26500



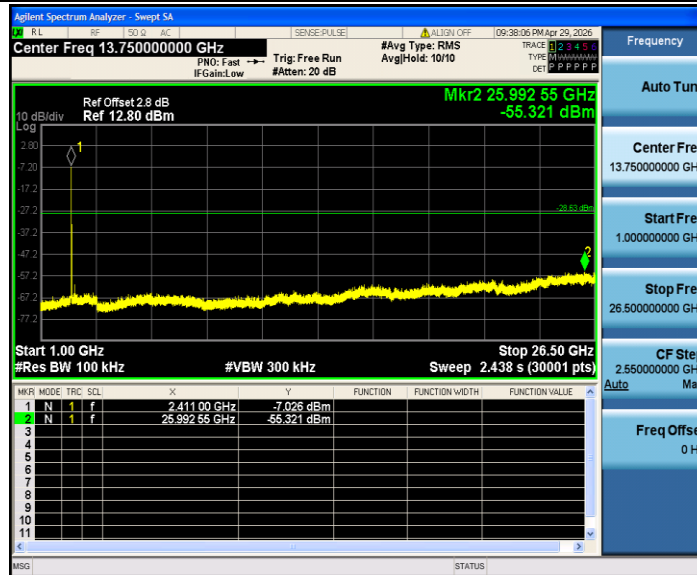
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



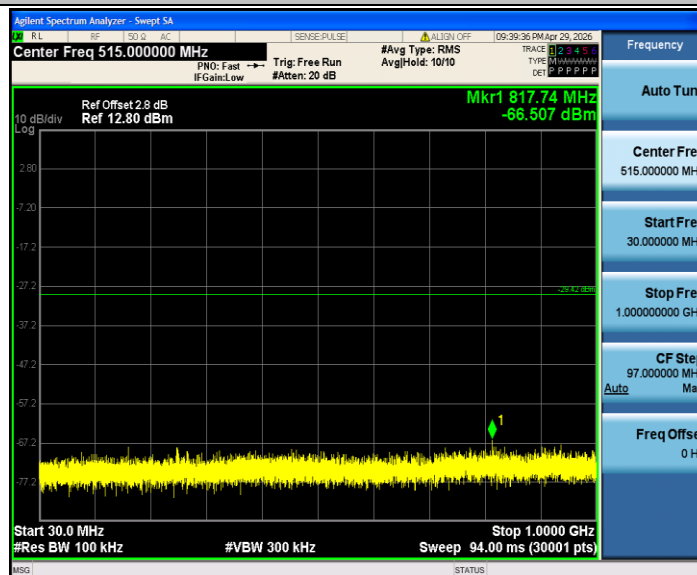
11G_Ant1_2412_1000~26500



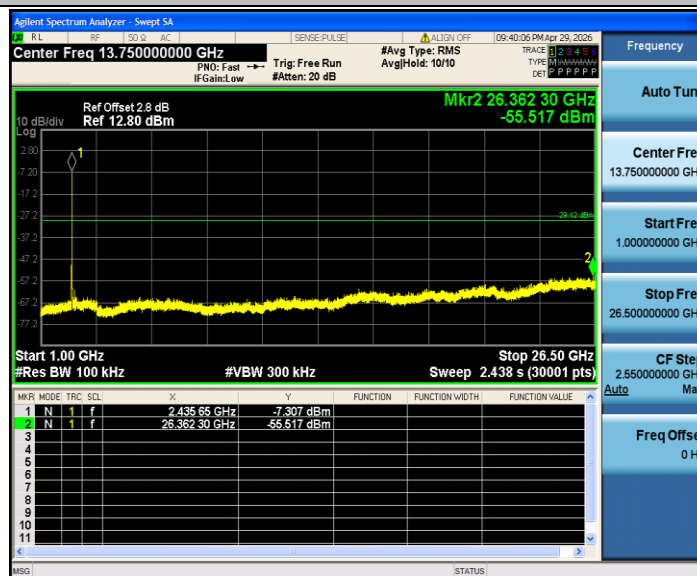
11G_Ant1_2437_0~Reference



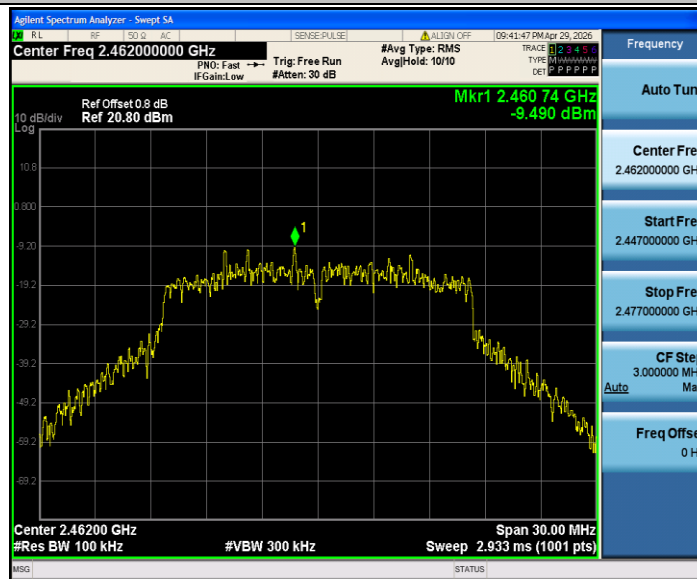
11G_Ant1_2437_30~1000



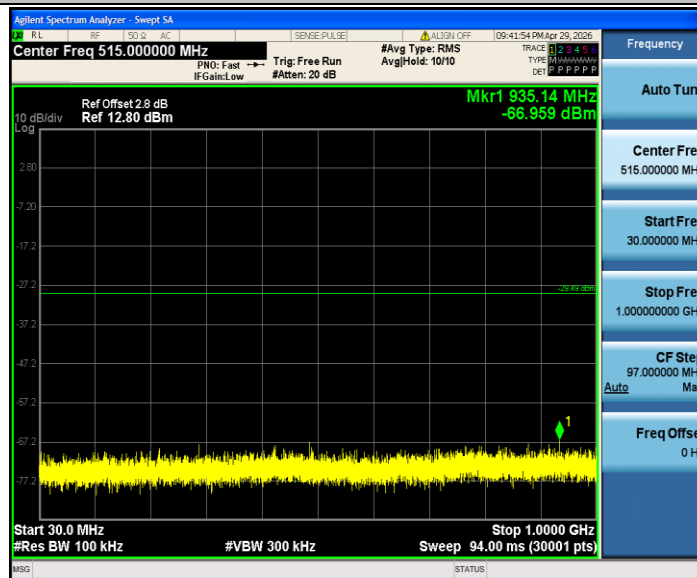
11G_Ant1_2437_1000~26500



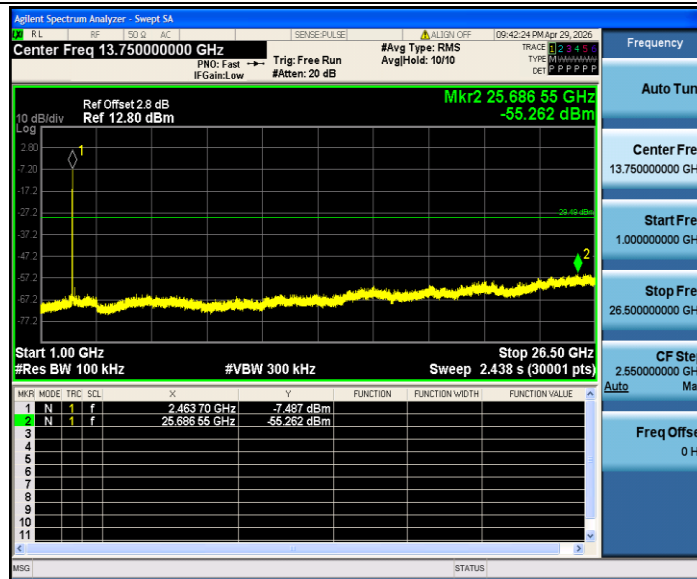
11G_Ant1_2462_0~Reference



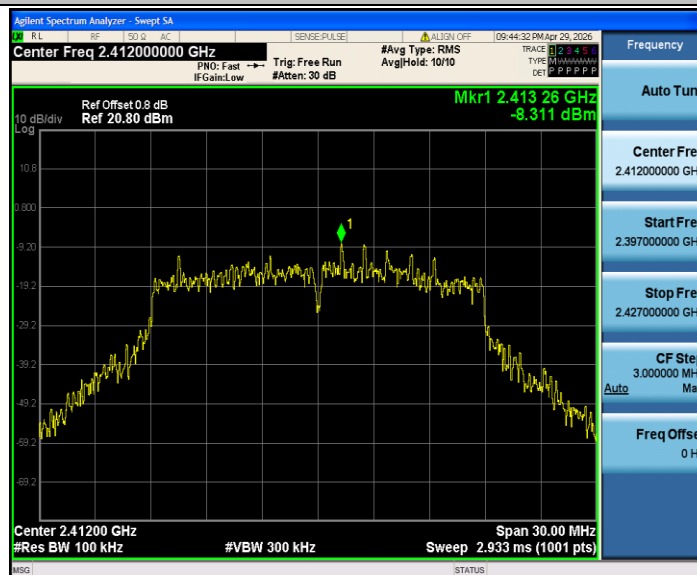
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

