

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AJU8-RG556

Company : Shenzhen Yangliming Electronic Technology Co., Ltd.

EUT : Handheld Game Console

Model Number : RG 556

Report No. : CTA26060901202

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	2431.960	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.560	2404.200	2419.760	0.5	PASS
		2437	15.520	2429.280	2444.800	0.5	PASS
		2462	15.800	2454.040	2469.840	0.5	PASS
11N20SISO	Ant1	2412	16.960	2403.480	2420.440	0.5	PASS
		2437	17.120	2428.440	2445.560	0.5	PASS
		2462	16.520	2453.480	2470.000	0.5	PASS
11N40SISO	Ant1	2422	35.200	2404.880	2440.080	0.5	PASS
		2437	35.840	2419.320	2455.160	0.5	PASS
		2452	35.760	2434.320	2470.080	0.5	PASS

Test Graphs

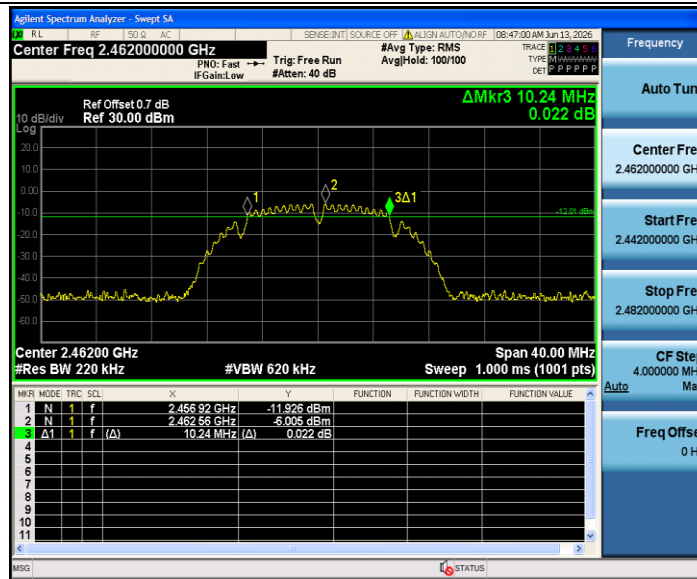
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



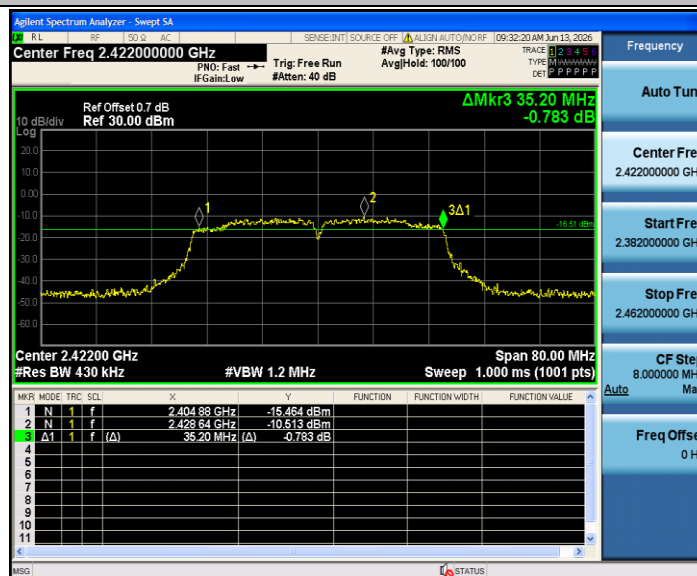
11N20SISO_Ant1_2437



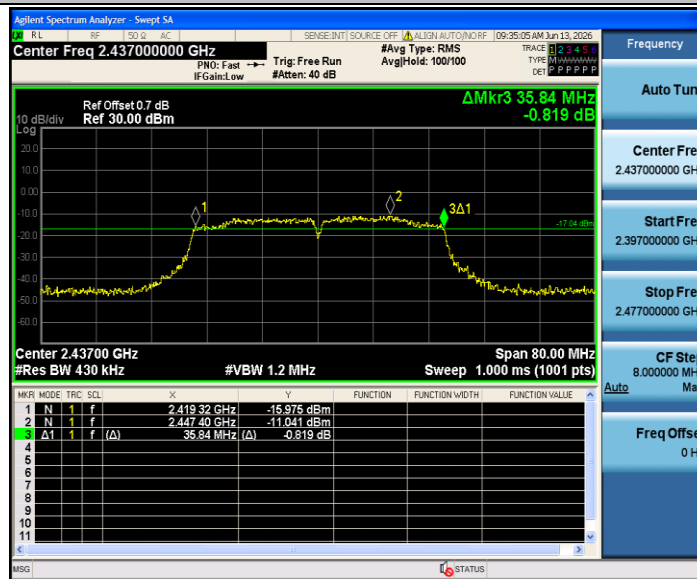
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



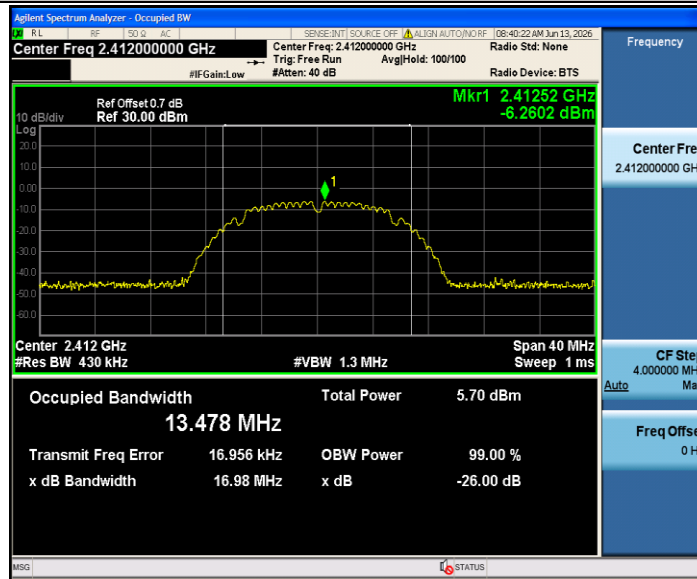
Appendix B: Occupied Channel Bandwidth

Test Result

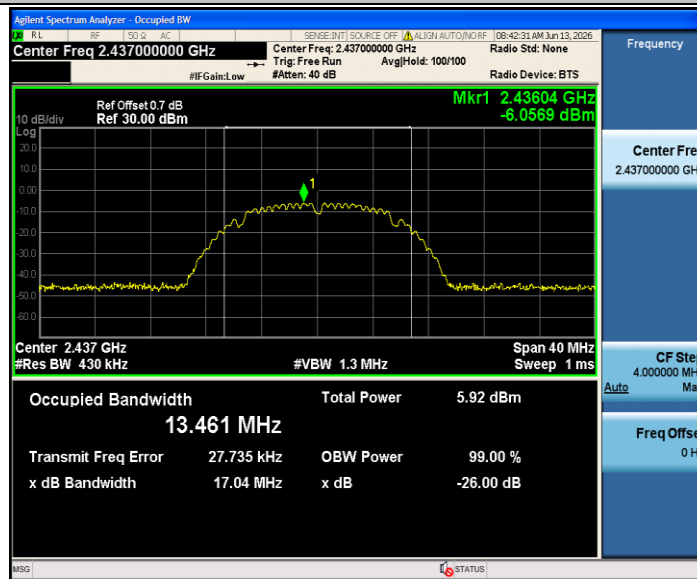
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.478	2405.2780	2418.7560	---	---
		2437	13.461	2430.2972	2443.7582	---	---
		2462	13.478	2455.2966	2468.7746	---	---
11G	Ant1	2412	16.823	2403.6270	2420.4500	---	---
		2437	16.898	2428.5765	2445.4745	---	---
		2462	16.809	2453.6529	2470.4619	---	---
11N20SISO	Ant1	2412	17.868	2403.1099	2420.9779	---	---
		2437	17.981	2428.0107	2445.9917	---	---
		2462	17.908	2453.0603	2470.9683	---	---
11N40SISO	Ant1	2422	36.110	2404.1315	2440.2415	---	---
		2437	36.097	2419.1173	2455.2143	---	---
		2452	36.113	2434.1114	2470.2244	---	---

Test Graphs

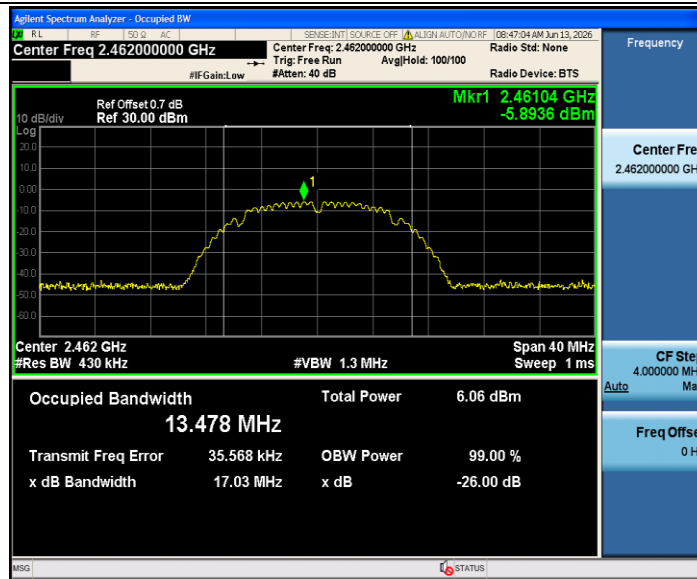
11B_Ant1_2412



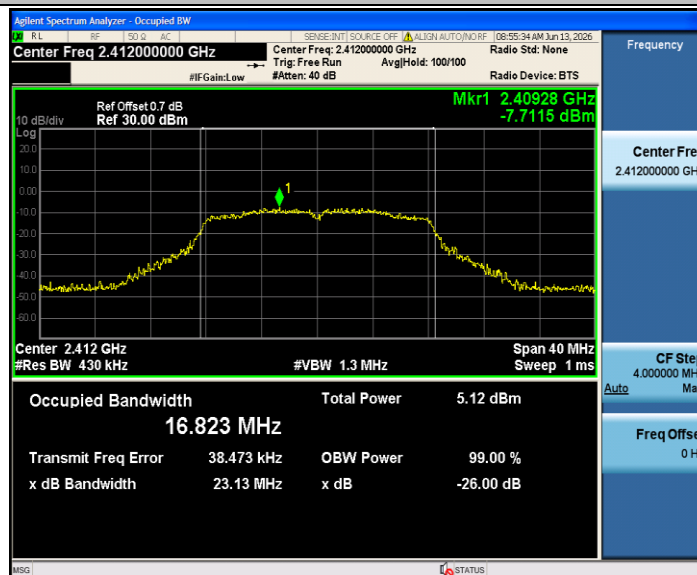
11B_Ant1_2437



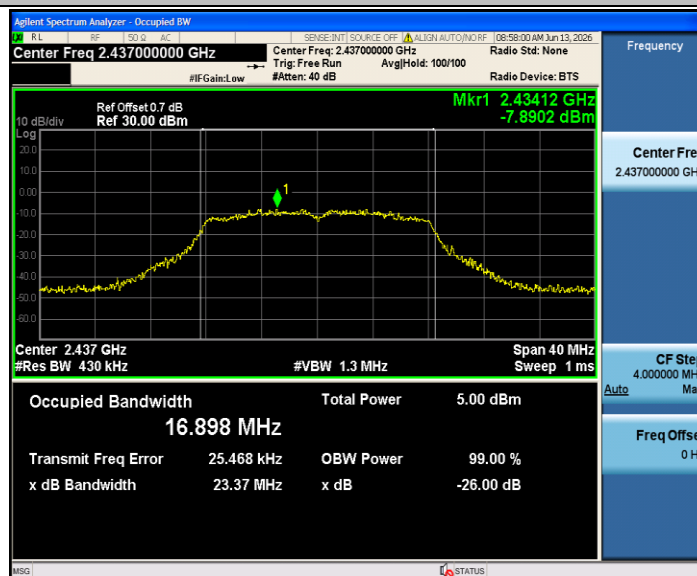
11B_Ant1_2462



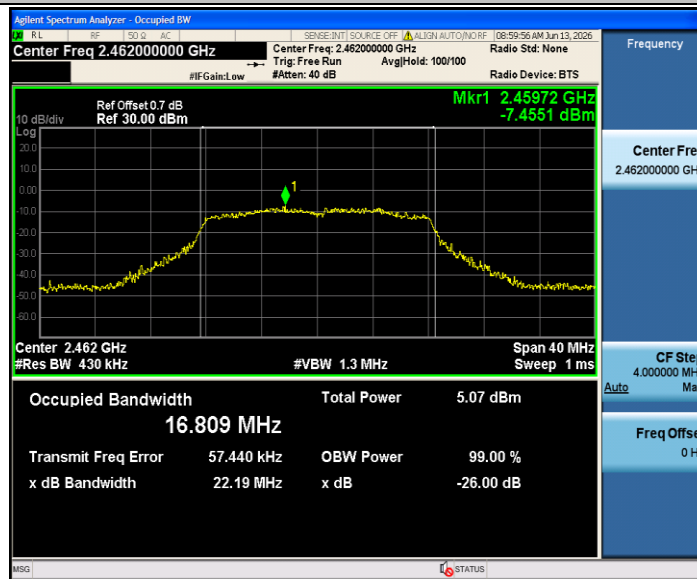
11G_Ant1_2412



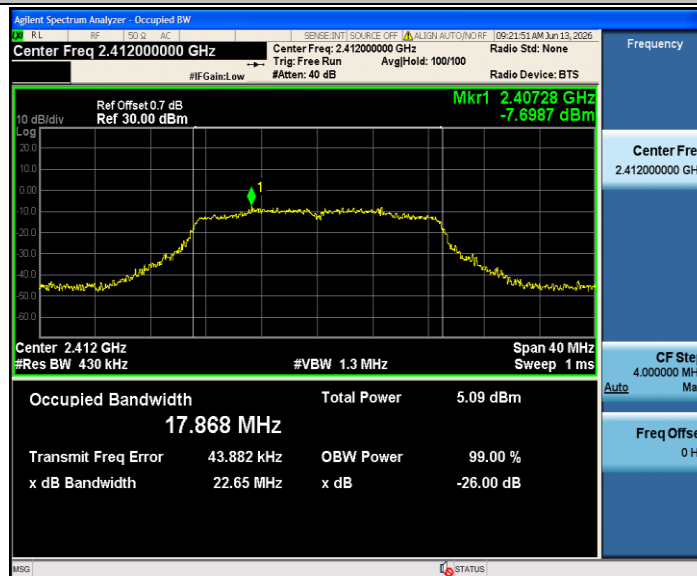
11G_Ant1_2437



11G_Ant1_2462



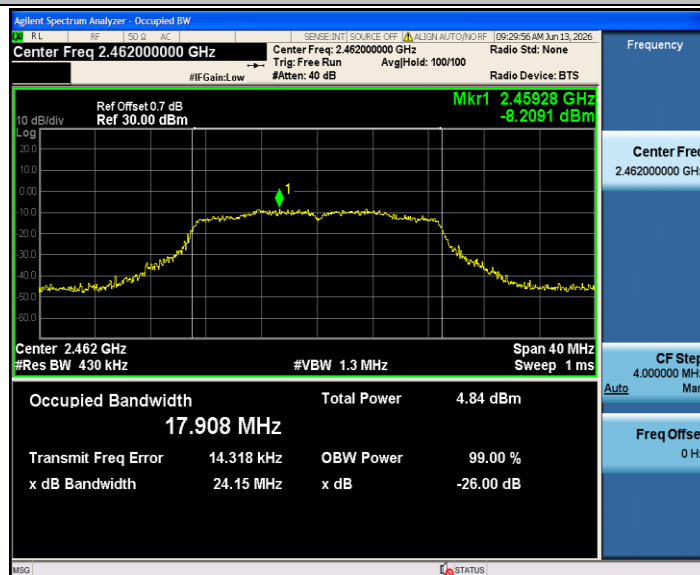
11N20SISO_Ant1_2412



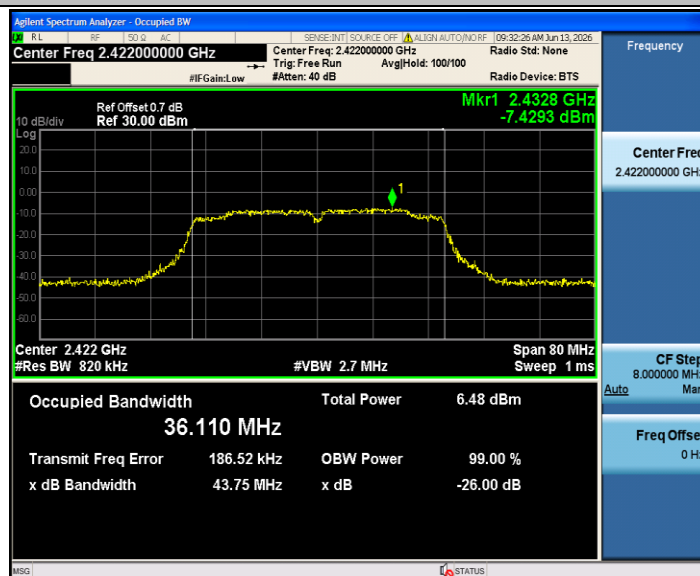
11N20SISO_Ant1_2437



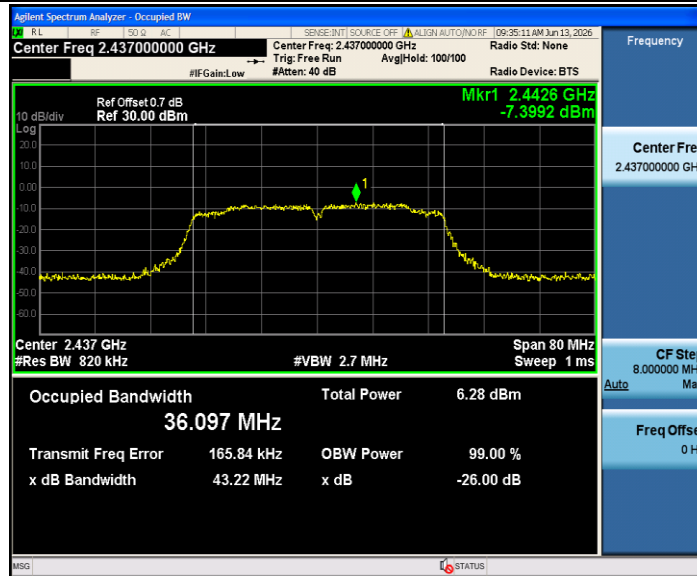
11N20SISO_Ant1_2462



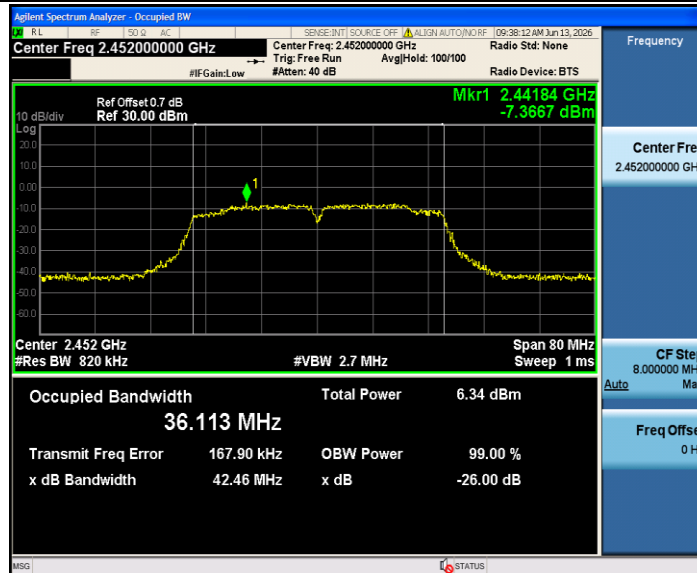
11N40SISO_Ant1_2422



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	6.64	≤30.00	PASS
		2437	6.47	≤30.00	PASS
		2462	6.42	≤30.00	PASS
11G	Ant1	2412	6.04	≤30.00	PASS
		2437	5.77	≤30.00	PASS
		2462	5.91	≤30.00	PASS
11N20SISO	Ant1	2412	5.93	≤30.00	PASS
		2437	5.86	≤30.00	PASS
		2462	5.64	≤30.00	PASS
11N40SISO	Ant1	2422	5.42	≤30.00	PASS
		2437	5.52	≤30.00	PASS
		2452	5.76	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

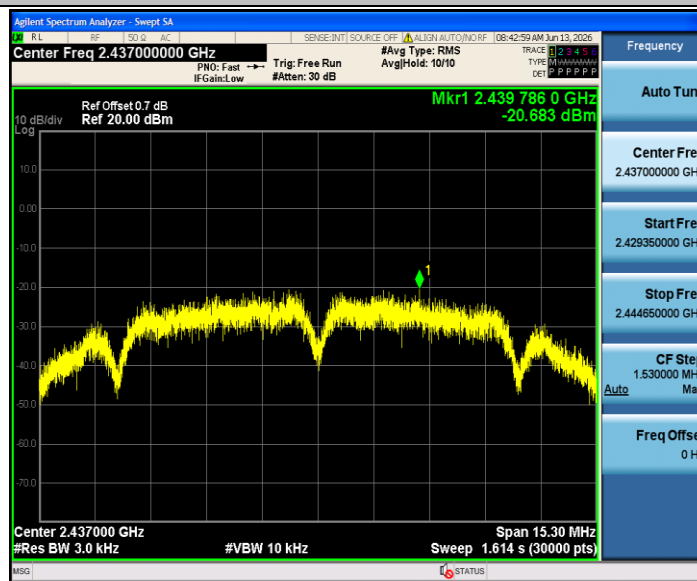
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-20.21	≤8.00	PASS
		2437	-20.68	≤8.00	PASS
		2462	-20.33	≤8.00	PASS
11G	Ant1	2412	-24.89	≤8.00	PASS
		2437	-25.11	≤8.00	PASS
		2462	-25.59	≤8.00	PASS
11N20SISO	Ant1	2412	-25.16	≤8.00	PASS
		2437	-25.11	≤8.00	PASS
		2462	-25.47	≤8.00	PASS
11N40SISO	Ant1	2422	-28.44	≤8.00	PASS
		2437	-28.05	≤8.00	PASS
		2452	-28.57	≤8.00	PASS

Test Graphs

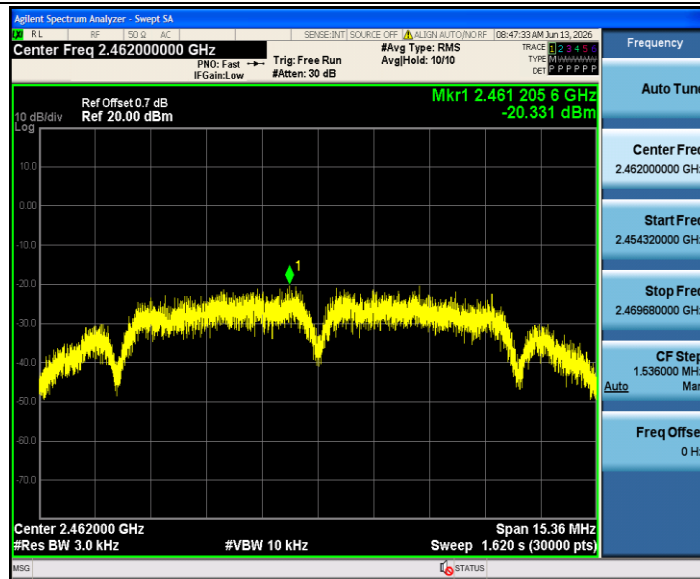
11B_Ant1_2412



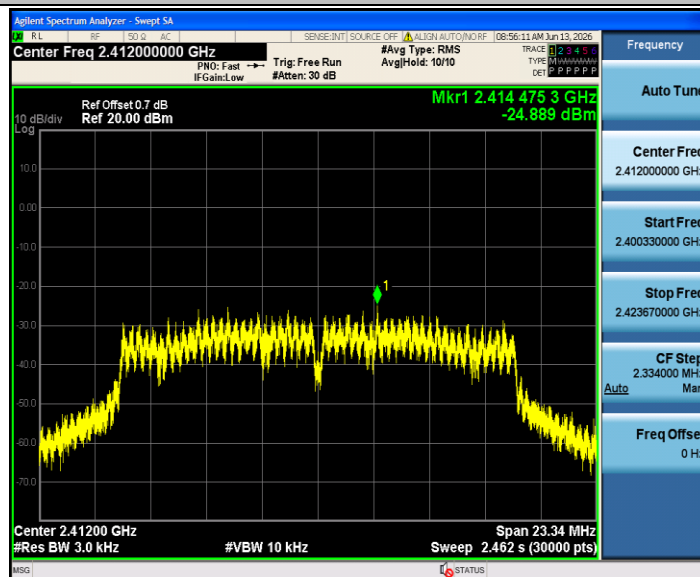
11B_Ant1_2437



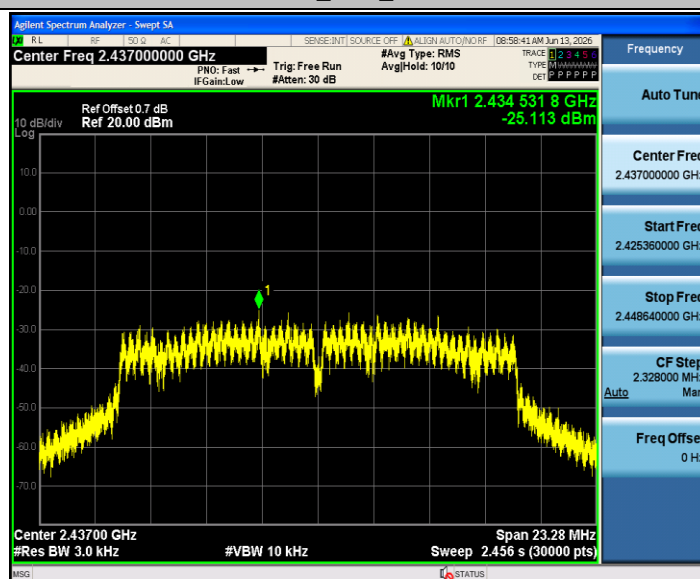
11B_Ant1_2462



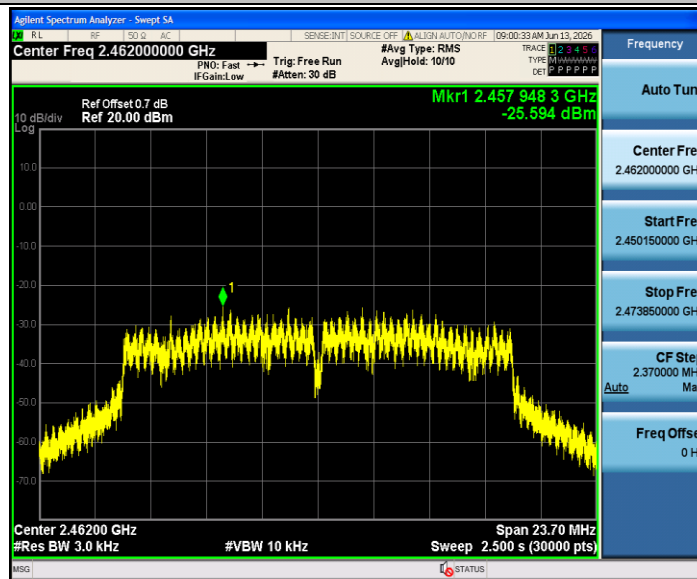
11G_Ant1_2412



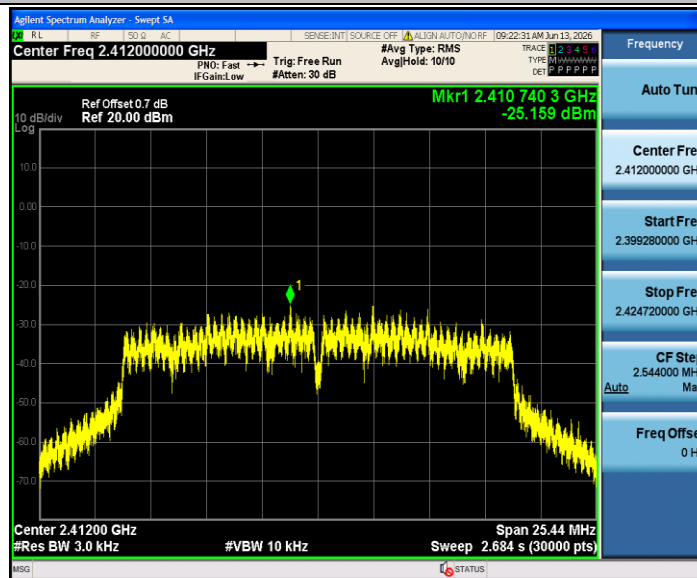
11G_Ant1_2437



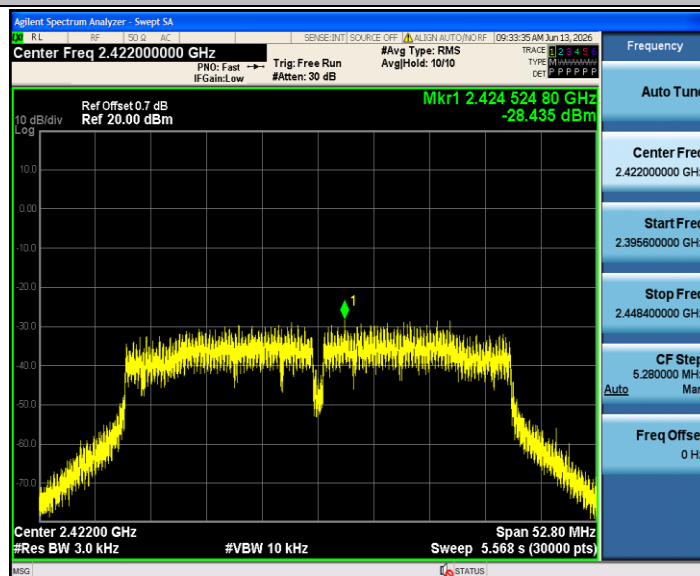
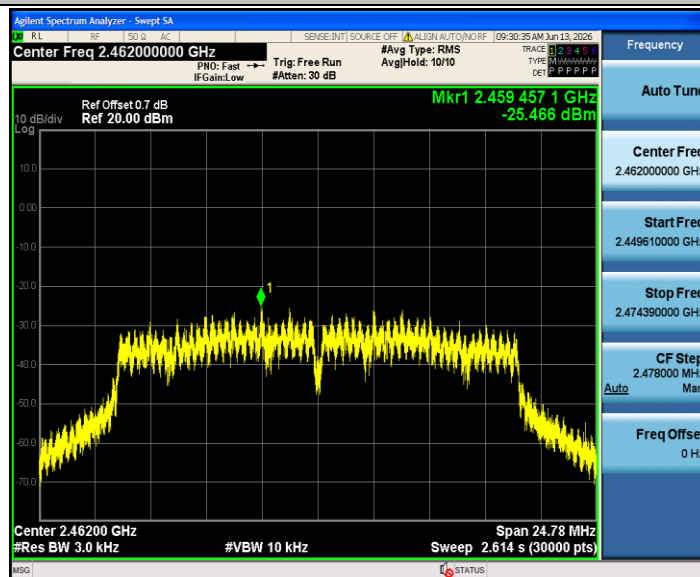
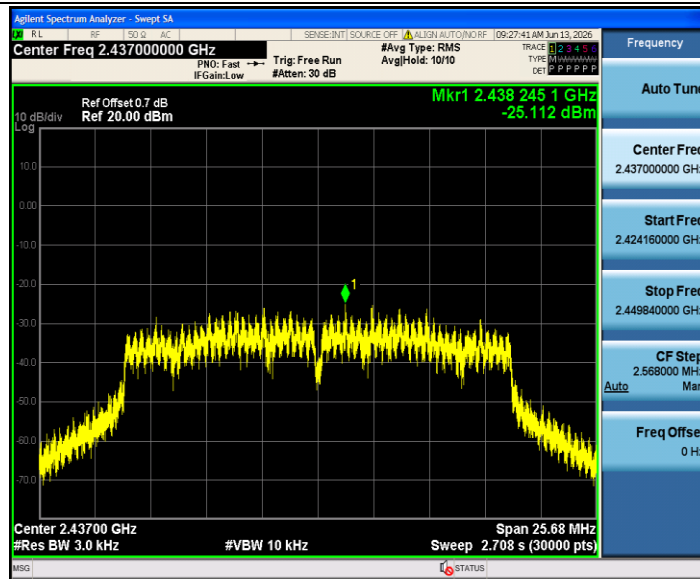
11G_Ant1_2462



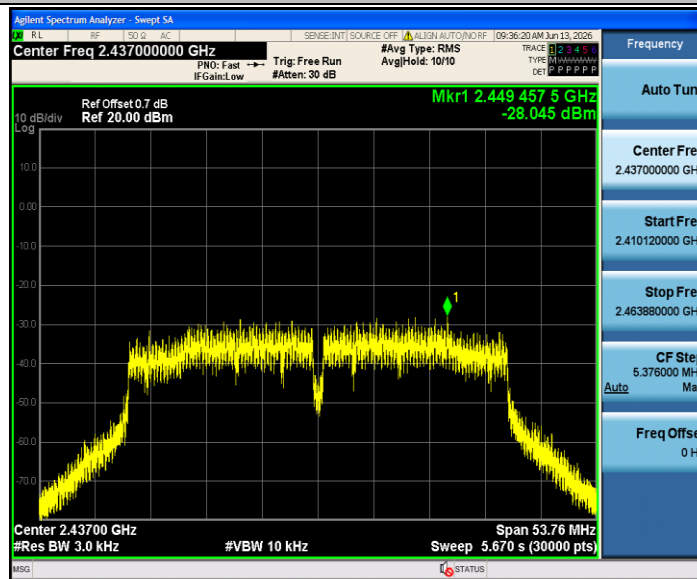
11N20SISO_Ant1_2412



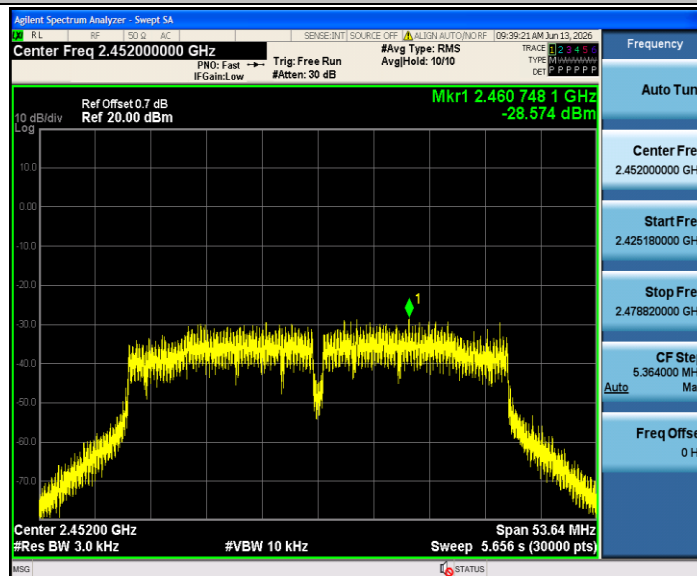
11N20SISO_Ant1_2437



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



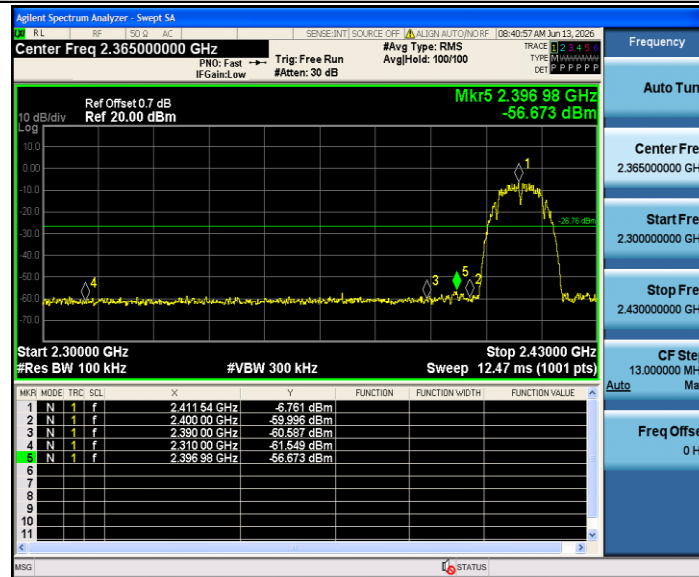
Appendix E: Band edge measurements

Test Result

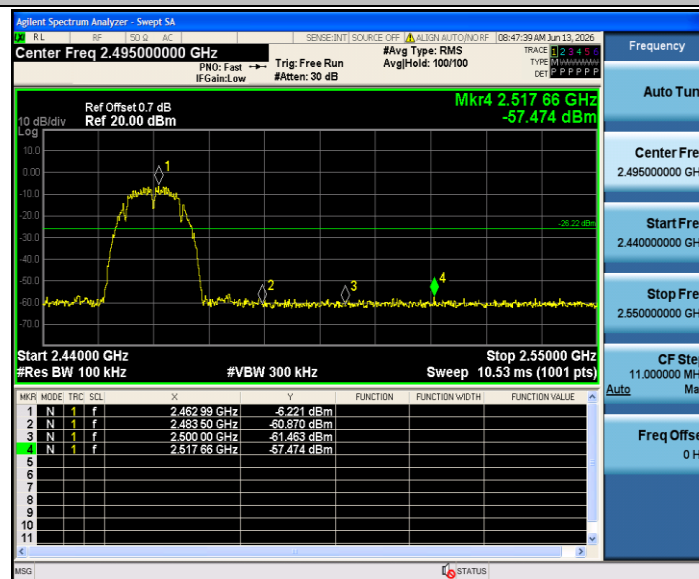
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.76	-56.67	≤-26.76	PASS
		High	2462	-6.22	-57.47	≤-26.22	PASS
11G	Ant1	Low	2412	-10.35	-40.07	≤-30.35	PASS
		High	2462	-10.49	-57.62	≤-30.49	PASS
11N20SISO	Ant1	Low	2412	-10.35	-41.38	≤-30.35	PASS
		High	2462	-10.61	-57.49	≤-30.61	PASS
11N40SISO	Ant1	Low	2422	-13.24	-41.79	≤-33.24	PASS
		High	2452	-13.27	-57.59	≤-33.27	PASS

Test Graphs

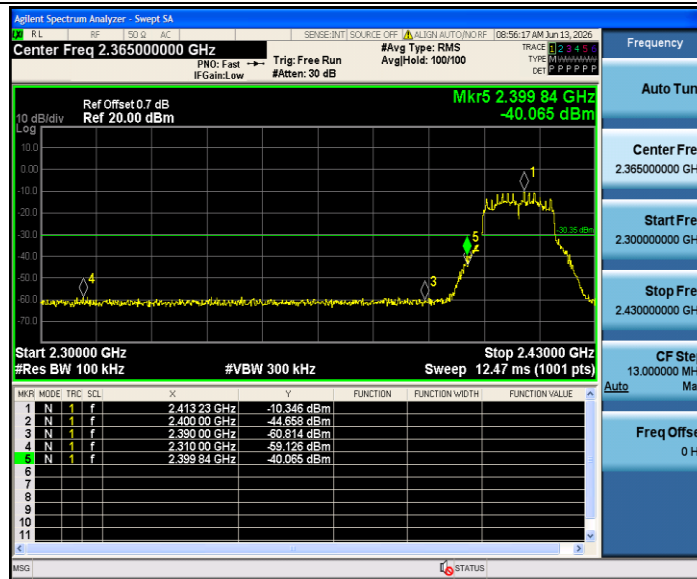
11B_Ant1_Low_2412



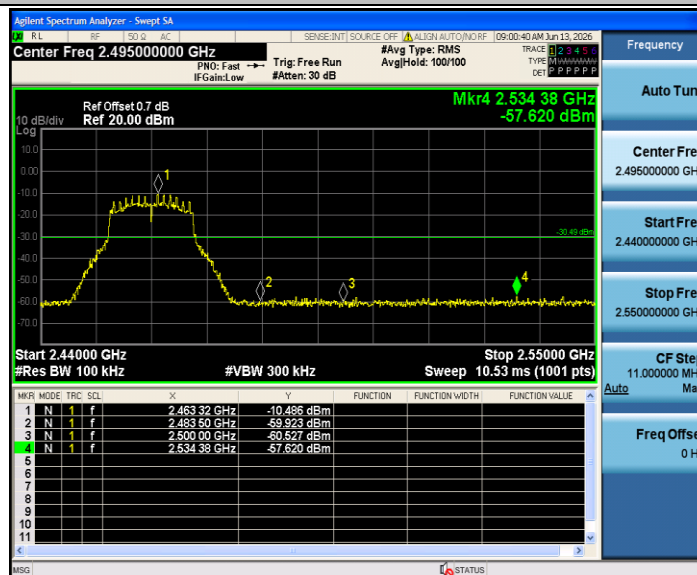
11B_Ant1_High_2462



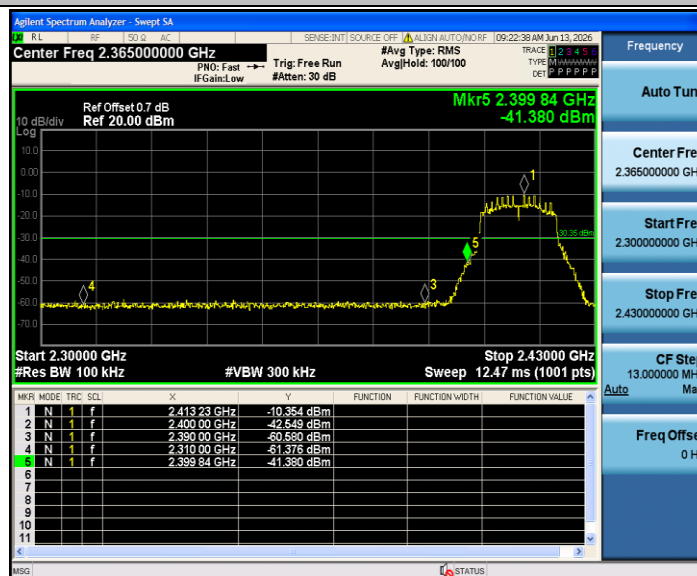
11G_Ant1_Low_2412



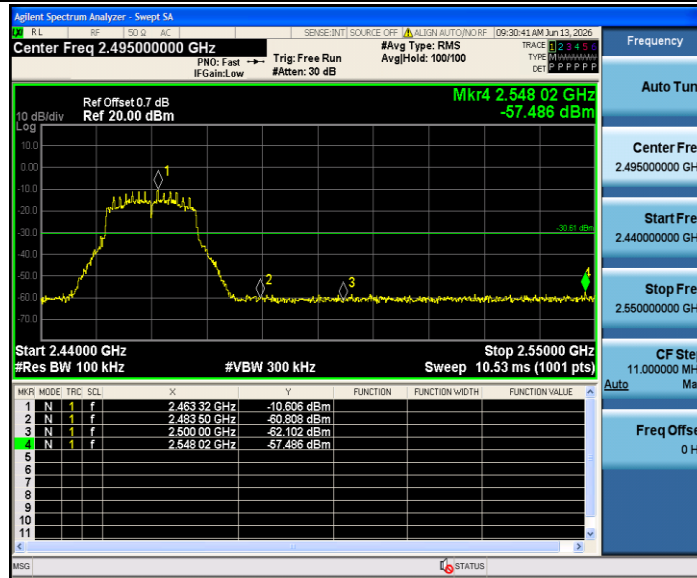
11G_Ant1_High_2462



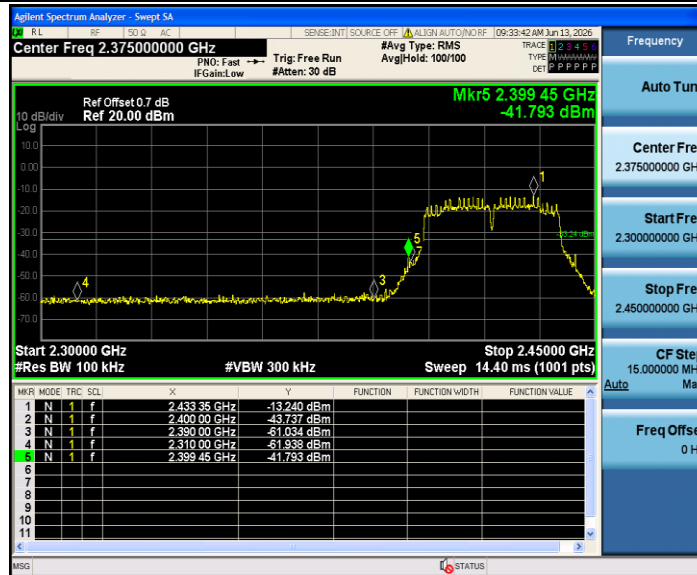
11N20SISO_Ant1_Low_2412



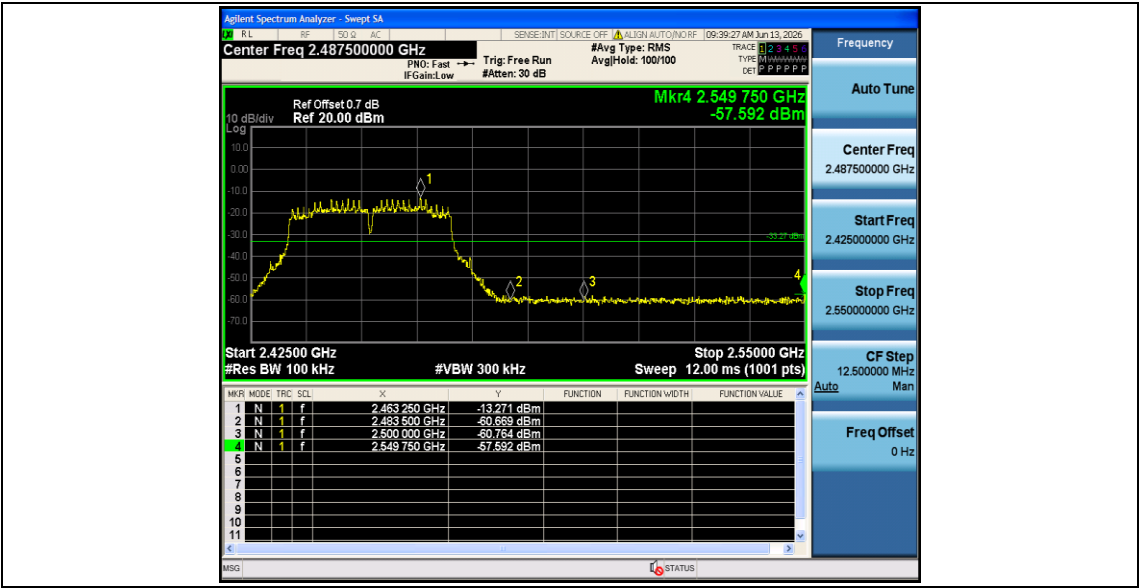
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



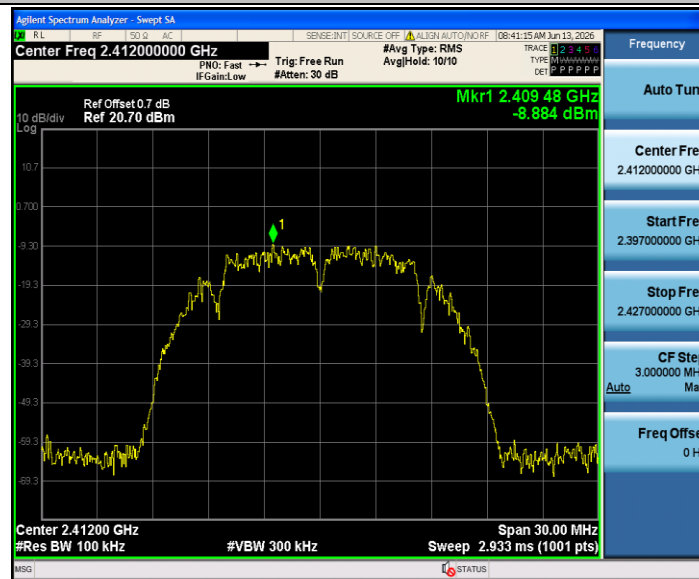
Appendix F: Conducted Spurious Emission

Test Result

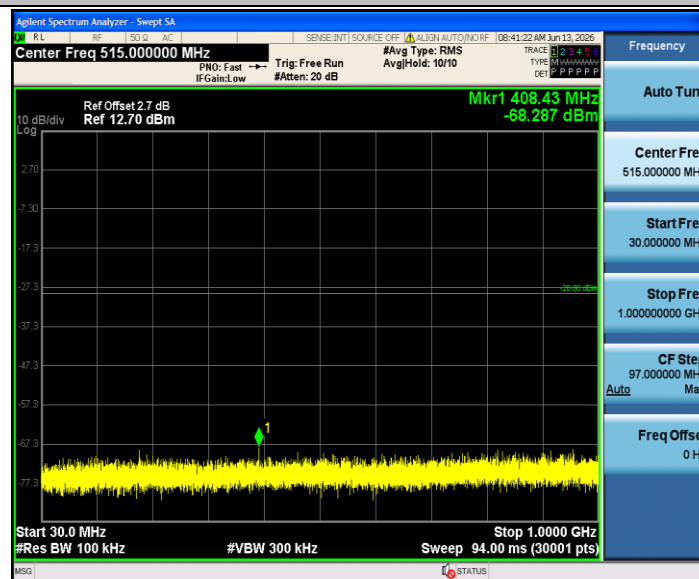
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-8.88	-8.88	---	PASS
			30~1000	-8.88	-68.29	≤-28.88	PASS
			1000~26500	-8.88	-56.49	≤-28.88	PASS
		2437	Reference	-7.97	-7.97	---	PASS
			30~1000	-7.97	-68.14	≤-27.97	PASS
			1000~26500	-7.97	-56.76	≤-27.97	PASS
		2462	Reference	-6.81	-6.81	---	PASS
			30~1000	-6.81	-68.94	≤-26.81	PASS
			1000~26500	-6.81	-56.74	≤-26.81	PASS
11G	Ant1	2412	Reference	-10.85	-10.85	---	PASS
			30~1000	-10.85	-68.85	≤-30.85	PASS
			1000~26500	-10.85	-56.83	≤-30.85	PASS
		2437	Reference	-10.86	-10.86	---	PASS
			30~1000	-10.86	-69.25	≤-30.86	PASS
			1000~26500	-10.86	-56.84	≤-30.86	PASS
		2462	Reference	-10.74	-10.74	---	PASS
			30~1000	-10.74	-68.47	≤-30.74	PASS
			1000~26500	-10.74	-56.86	≤-30.74	PASS
11N20SISO	Ant1	2412	Reference	-10.77	-10.77	---	PASS
			30~1000	-10.77	-68.96	≤-30.77	PASS
			1000~26500	-10.77	-56.91	≤-30.77	PASS
		2437	Reference	-12.16	-12.16	---	PASS
			30~1000	-12.16	-68.34	≤-32.16	PASS
			1000~26500	-12.16	-56.45	≤-32.16	PASS
		2462	Reference	-10.50	-10.50	---	PASS
			30~1000	-10.50	-68.68	≤-30.5	PASS
			1000~26500	-10.50	-56.32	≤-30.5	PASS
11N40SISO	Ant1	2422	Reference	-14.22	-14.22	---	PASS
			30~1000	-14.22	-68.48	≤-34.22	PASS
			1000~26500	-14.22	-56.86	≤-34.22	PASS
		2437	Reference	-14.06	-14.06	---	PASS
			30~1000	-14.06	-68.6	≤-34.06	PASS
			1000~26500	-14.06	-56.1	≤-34.06	PASS
		2452	Reference	-13.46	-13.46	---	PASS
			30~1000	-13.46	-68.54	≤-33.46	PASS
			1000~26500	-13.46	-56.99	≤-33.46	PASS

Test Graphs

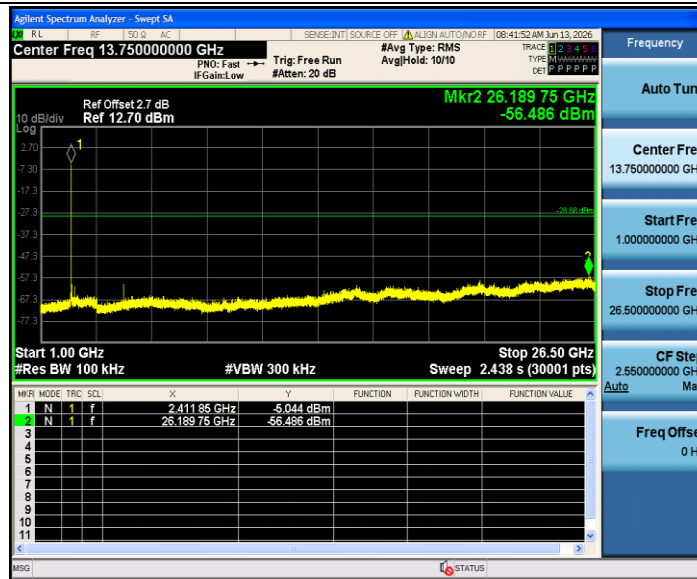
11B_Ant1_2412_0~Reference



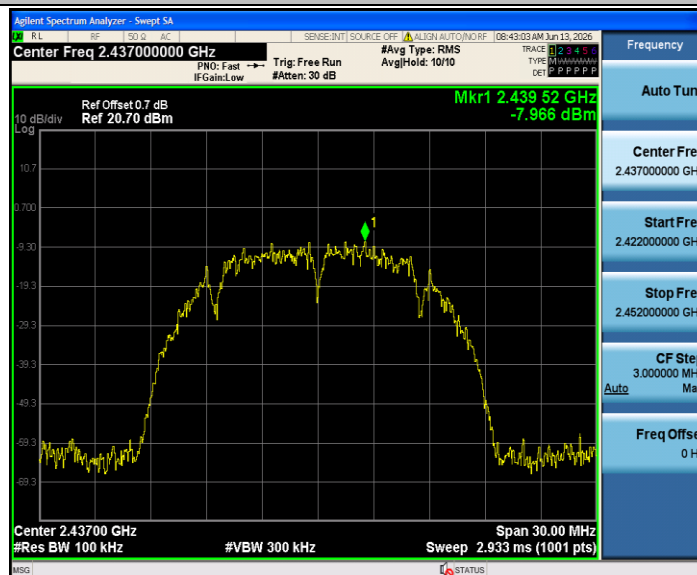
11B_Ant1_2412_30~1000



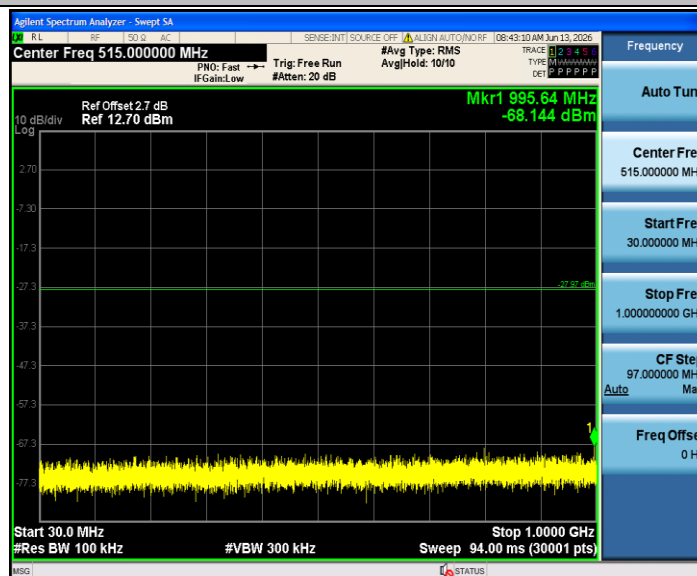
11B_Ant1_2412_1000~26500



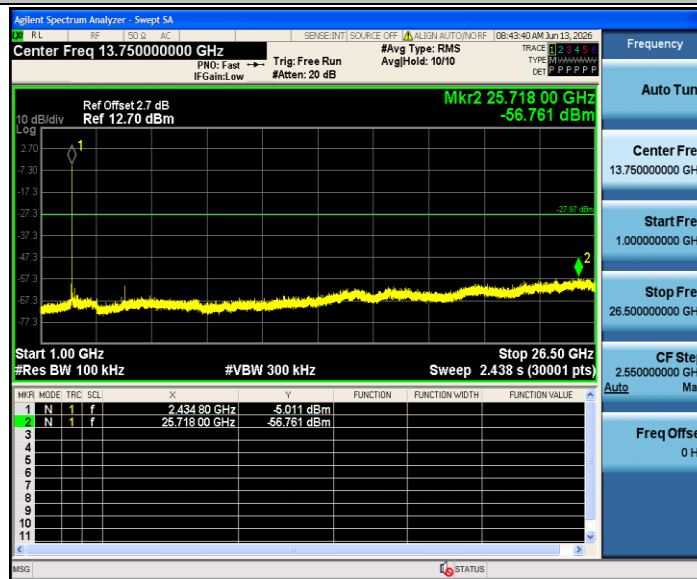
11B_Ant1_2437_0~Reference



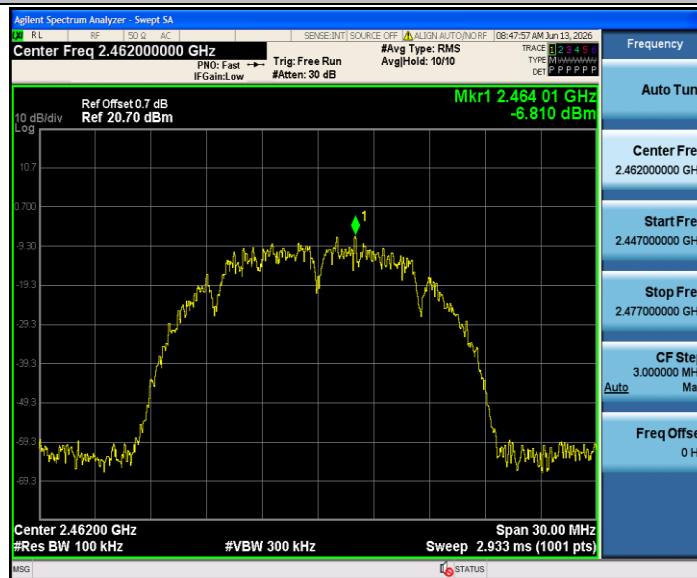
11B_Ant1_2437_30~1000



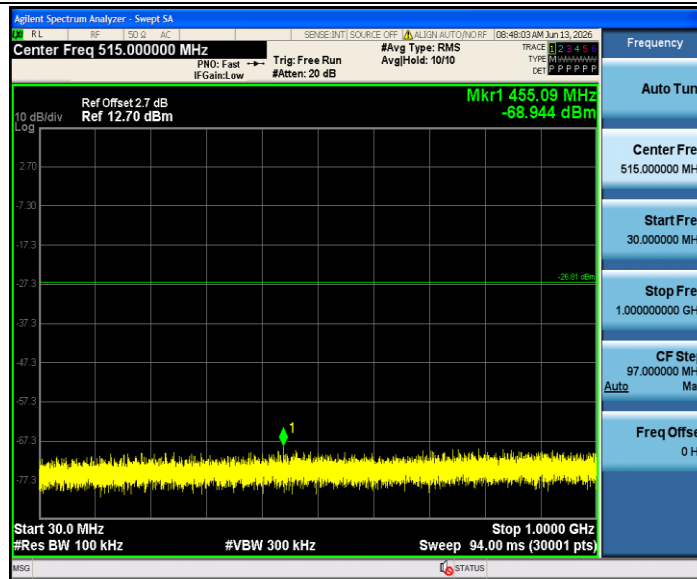
11B_Ant1_2437_1000~26500



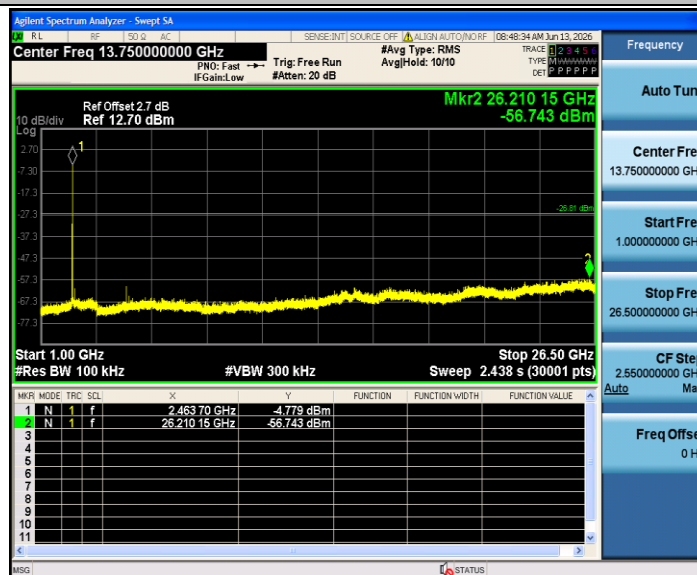
11B_Ant1_2462_0~Reference



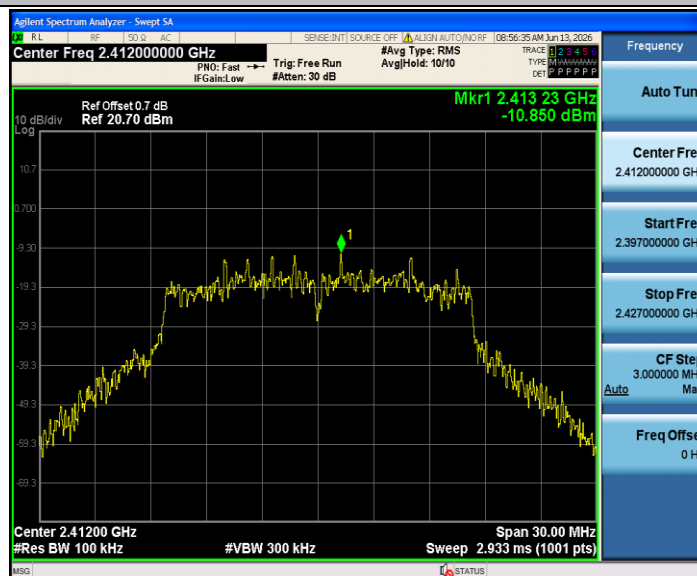
11B_Ant1_2462_30~1000



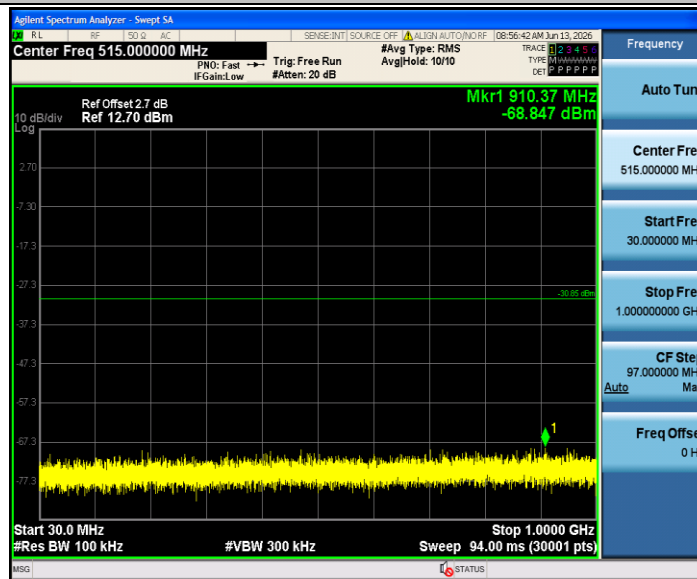
11B_Ant1_2462_1000~26500



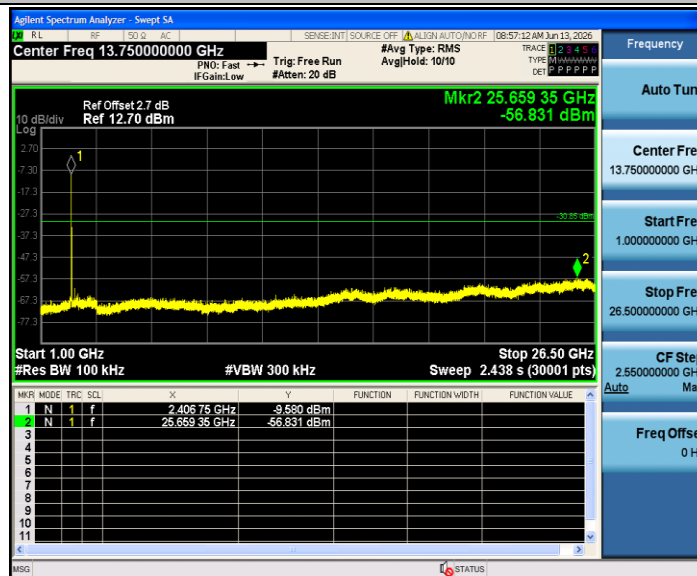
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



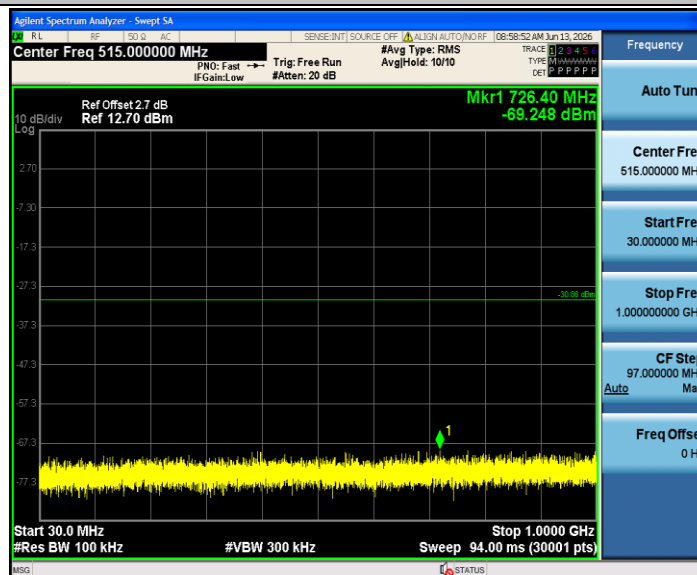
11G_Ant1_2412_1000~26500



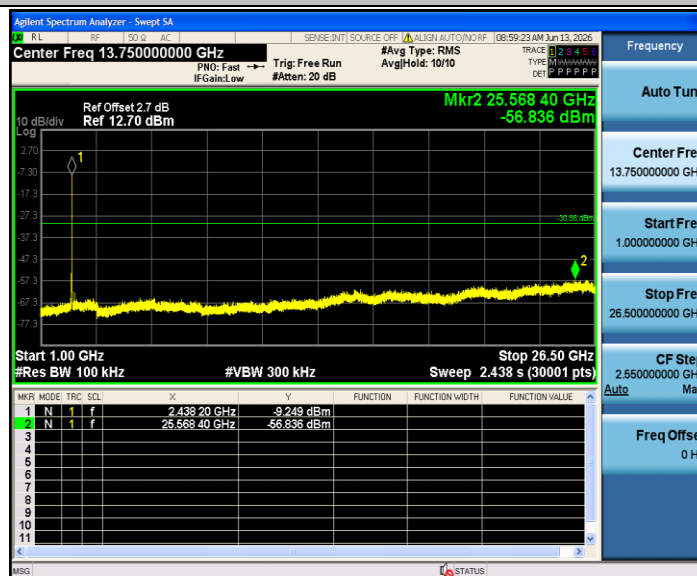
11G_Ant1_2437_0~Reference



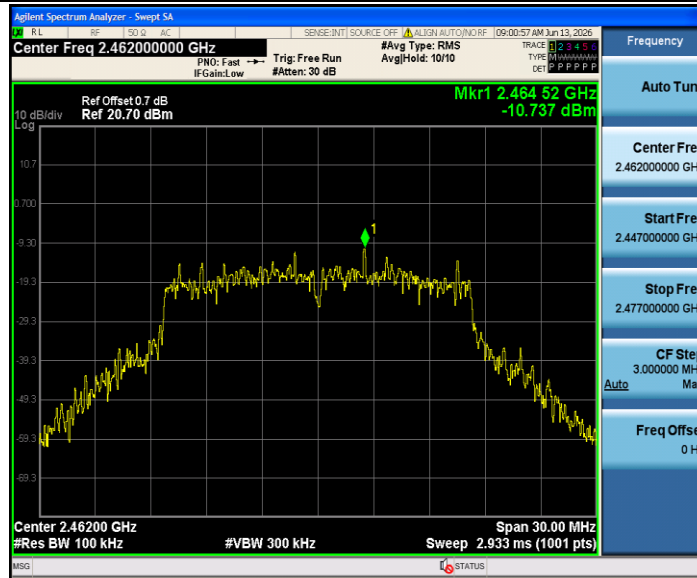
11G_Ant1_2437_30~1000



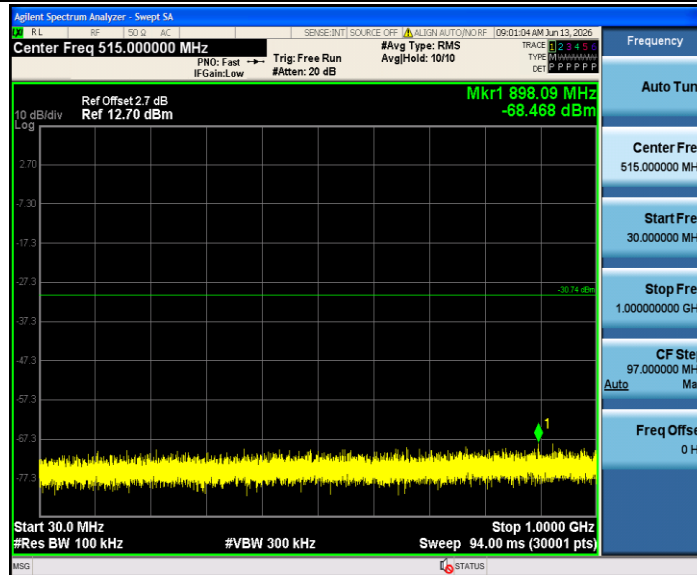
11G_Ant1_2437_1000~26500



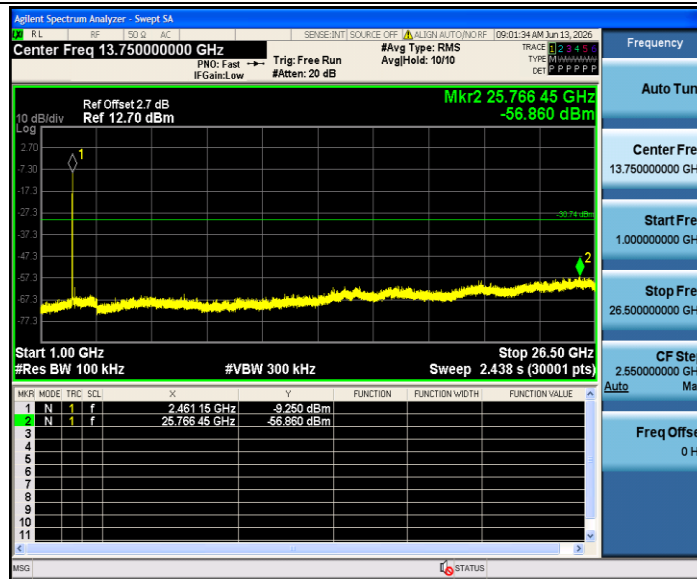
11G_Ant1_2462_0~Reference



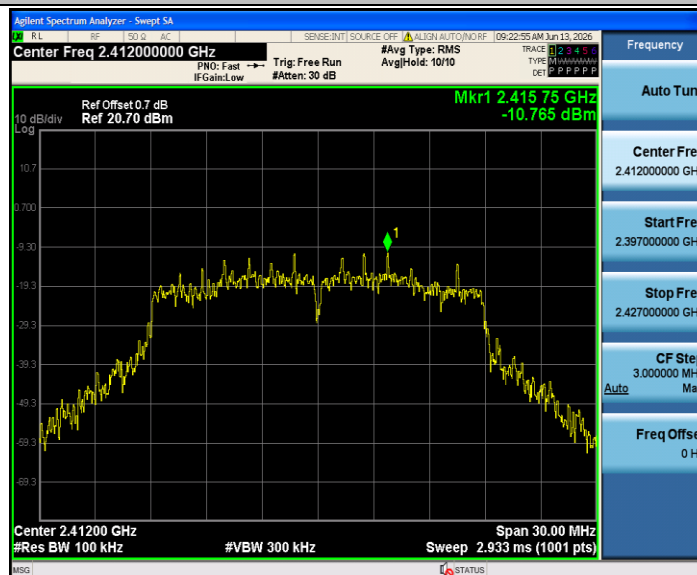
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

