

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BXDO-JB-KIIO01-WH

Company : Jiubai Technology(Shenzhen)Co.,LTD

EUT : Kiio Ai Robot

Model Number : JB-KIIO01-WH

Report No. : CTA26071400801

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	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.600	2404.280	2419.880	0.5	PASS
		2437	15.680	2429.040	2444.720	0.5	PASS
		2462	15.240	2454.440	2469.680	0.5	PASS
11N20SISO	Ant1	2412	16.800	2403.520	2420.320	0.5	PASS
		2437	16.880	2428.520	2445.400	0.5	PASS
		2462	16.640	2453.480	2470.120	0.5	PASS
11N40SISO	Ant1	2422	35.840	2404.320	2440.160	0.5	PASS
		2437	35.200	2419.880	2455.080	0.5	PASS
		2452	35.760	2434.400	2470.160	0.5	PASS

Test Graphs

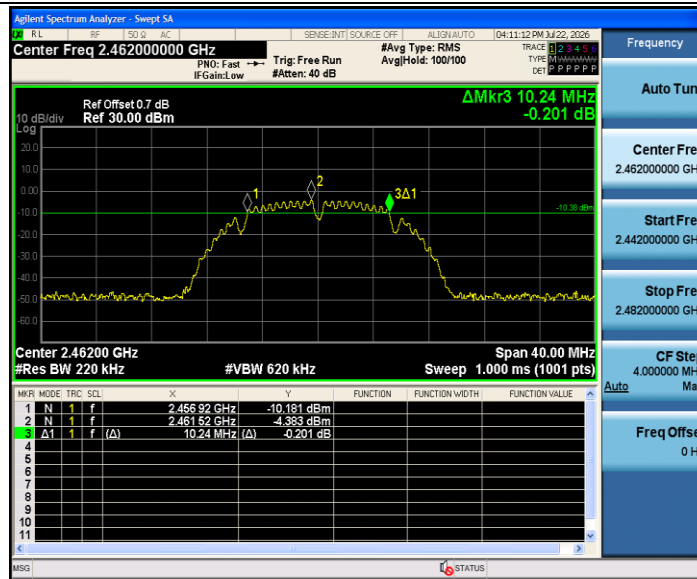
11B_Ant1_2412



11B_Ant1_2437



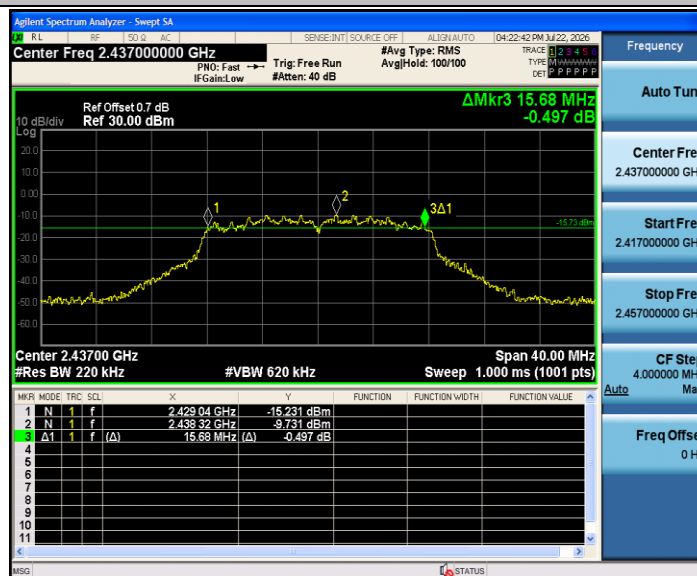
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



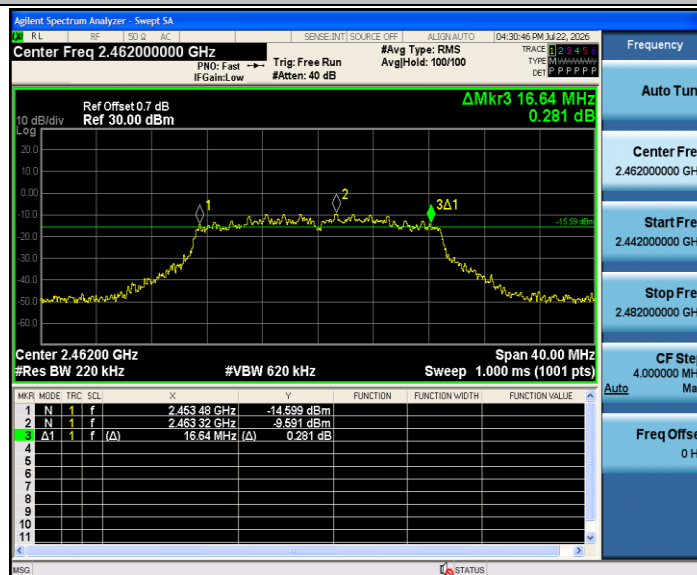
11N20SISO_Ant1_2412



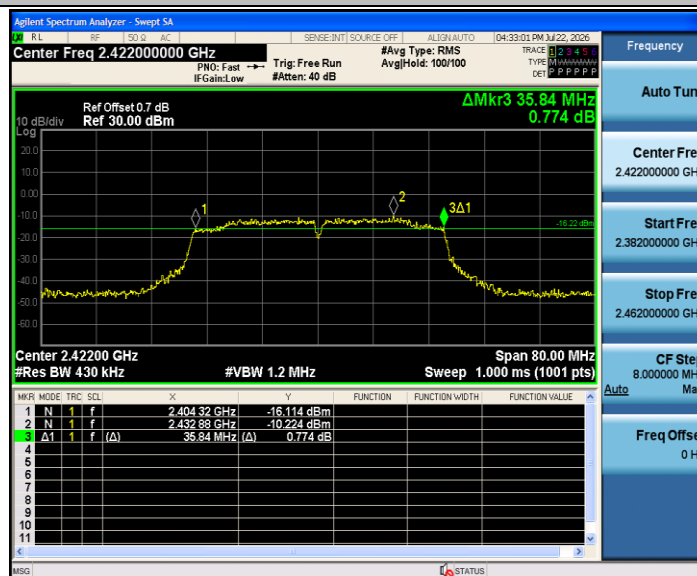
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



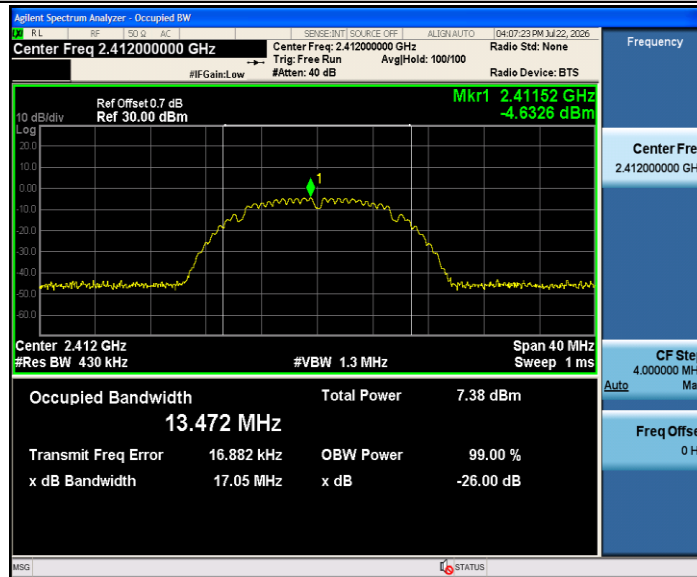
Appendix B: Occupied Channel Bandwidth

Test Result

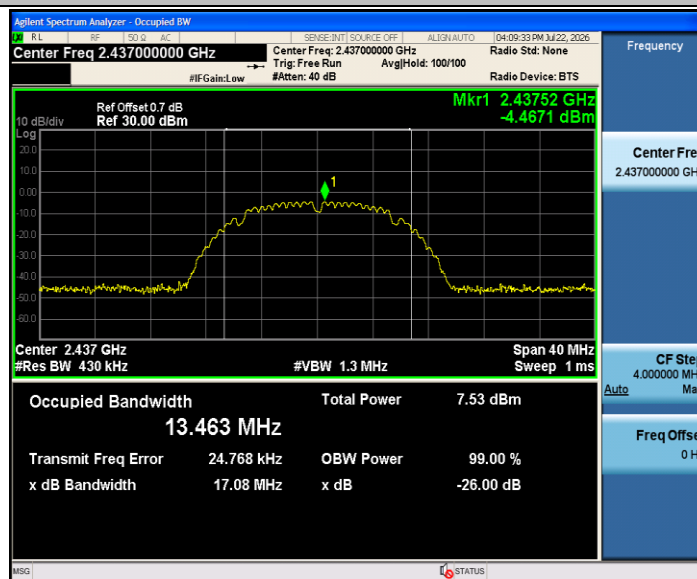
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.472	2405.2809	2418.7529	---	---
		2437	13.463	2430.2933	2443.7563	---	---
		2462	13.448	2455.3140	2468.7620	---	---
11G	Ant1	2412	16.962	2403.5478	2420.5098	---	---
		2437	16.849	2428.6137	2445.4627	---	---
		2462	16.868	2453.6401	2470.5081	---	---
11N20SISO	Ant1	2412	17.865	2403.1010	2420.9660	---	---
		2437	17.911	2428.0537	2445.9647	---	---
		2462	17.885	2453.1129	2470.9979	---	---
11N40SISO	Ant1	2422	36.085	2404.0929	2440.1779	---	---
		2437	36.087	2419.0988	2455.1858	---	---
		2452	36.084	2434.1021	2470.1861	---	---

Test Graphs

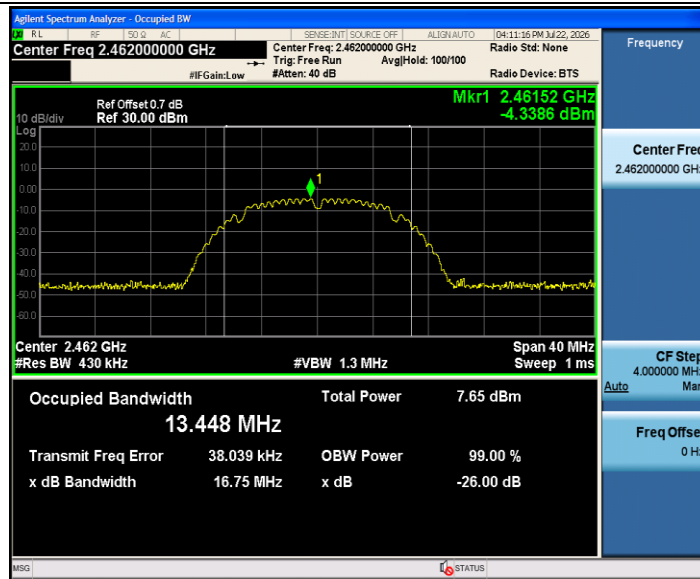
11B_Ant1_2412



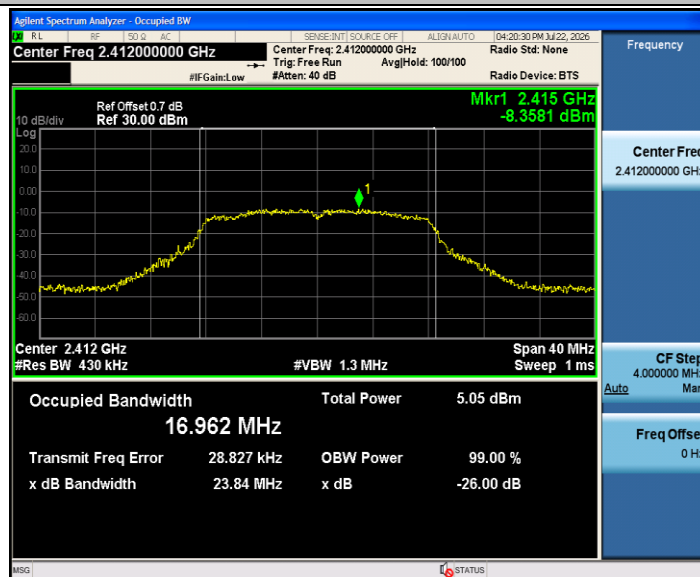
11B_Ant1_2437



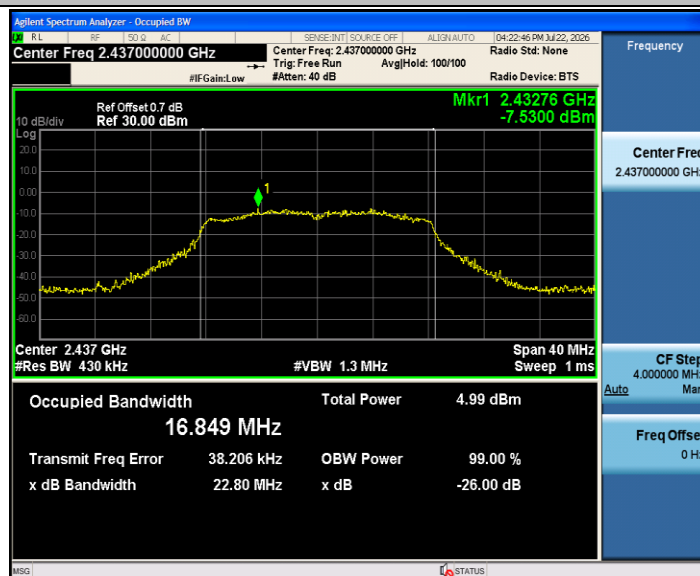
11B_Ant1_2462



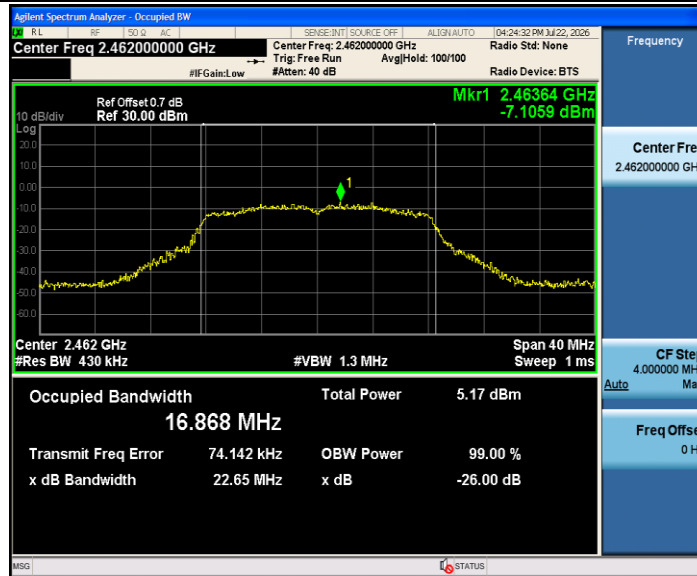
11G_Ant1_2412



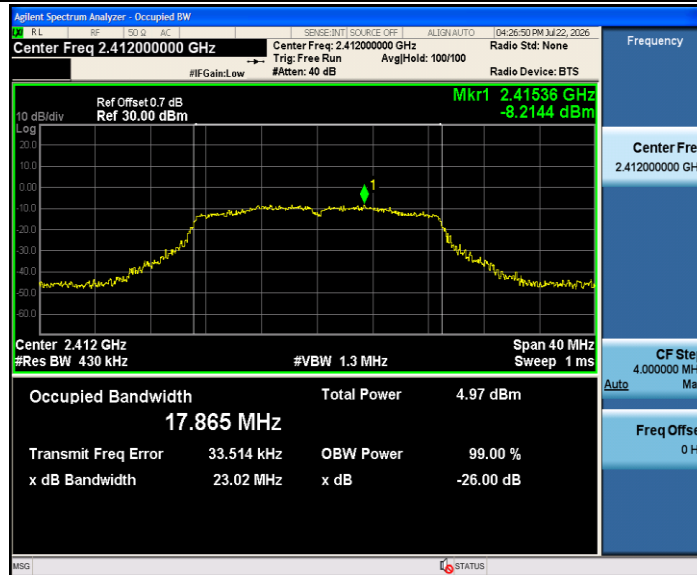
11G_Ant1_2437



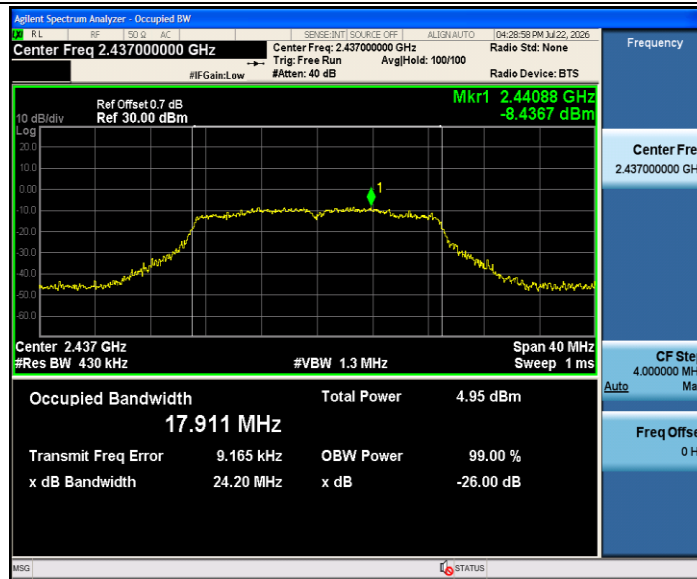
11G_Ant1_2462



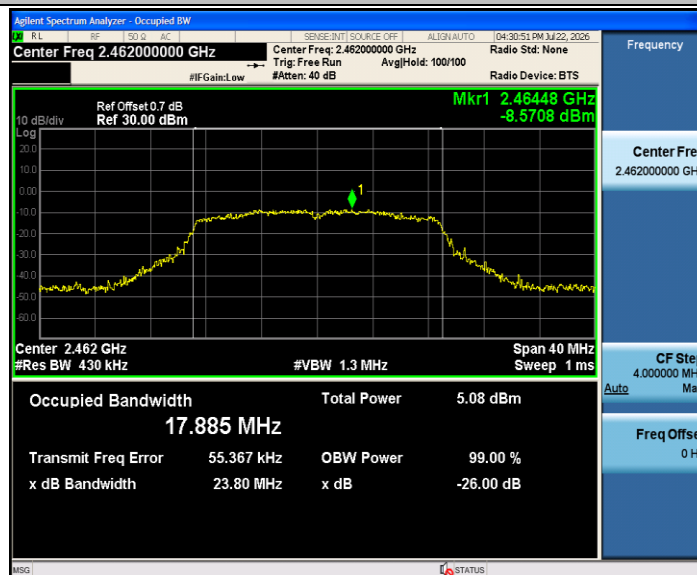
11N20SISO_Ant1_2412



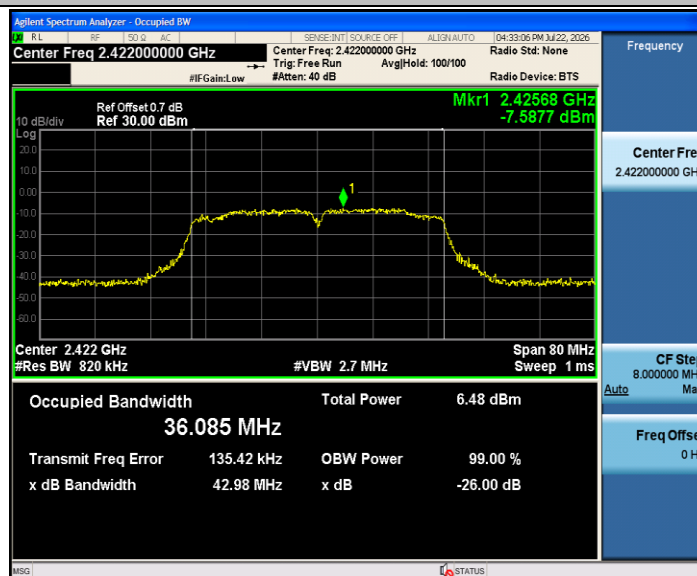
11N20SISO_Ant1_2437



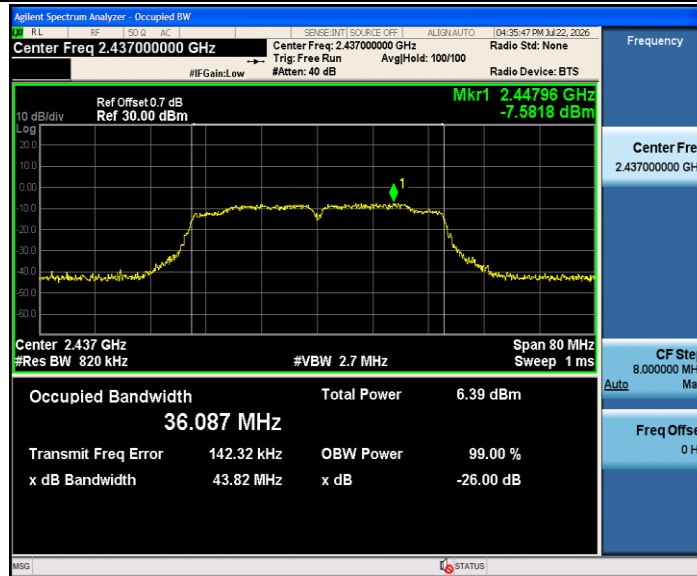
11N20SISO_Ant1_2462



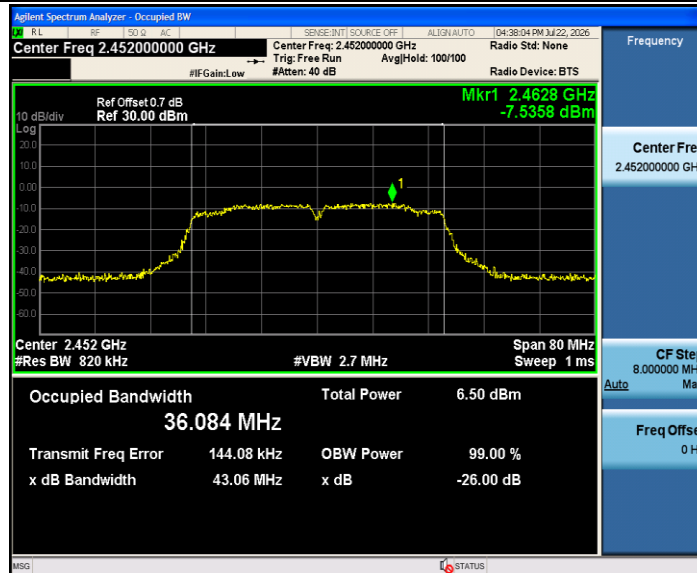
11N40SISO_Ant1_2422



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	7.04	≤30.00	PASS
		2437	7.19	≤30.00	PASS
		2462	7.32	≤30.00	PASS
11G	Ant1	2412	6.00	≤30.00	PASS
		2437	5.91	≤30.00	PASS
		2462	6.00	≤30.00	PASS
11N20SISO	Ant1	2412	5.90	≤30.00	PASS
		2437	5.80	≤30.00	PASS
		2462	5.96	≤30.00	PASS
11N40SISO	Ant1	2422	6.62	≤30.00	PASS
		2437	6.51	≤30.00	PASS
		2452	6.71	≤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	-19.19	≤8.00	PASS
		2437	-18.68	≤8.00	PASS
		2462	-18.19	≤8.00	PASS
11G	Ant1	2412	-26.19	≤8.00	PASS
		2437	-25.42	≤8.00	PASS
		2462	-25.63	≤8.00	PASS
11N20SISO	Ant1	2412	-24.74	≤8.00	PASS
		2437	-25.06	≤8.00	PASS
		2462	-25.16	≤8.00	PASS
11N40SISO	Ant1	2422	-26.60	≤8.00	PASS
		2437	-28.11	≤8.00	PASS
		2452	-27.63	≤8.00	PASS

Test Graphs

11B_Ant1_2412



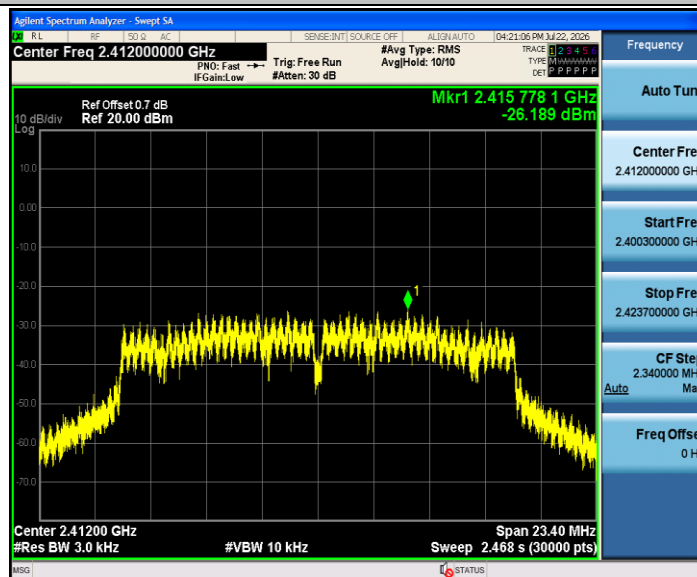
11B_Ant1_2437



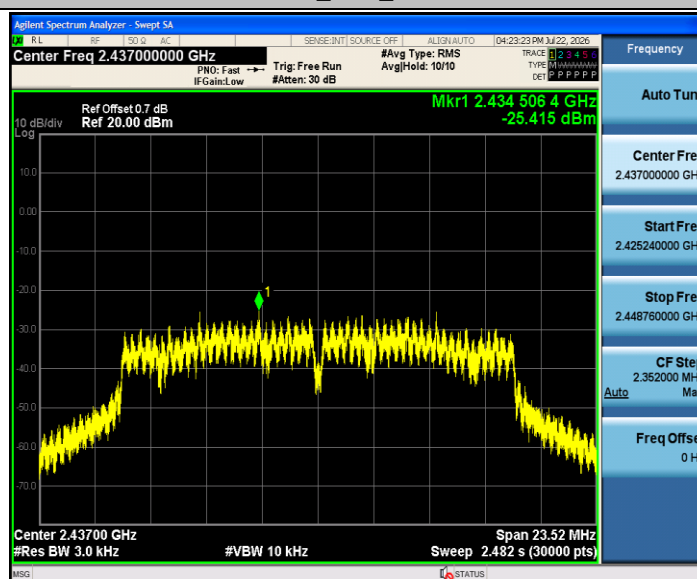
11B_Ant1_2462



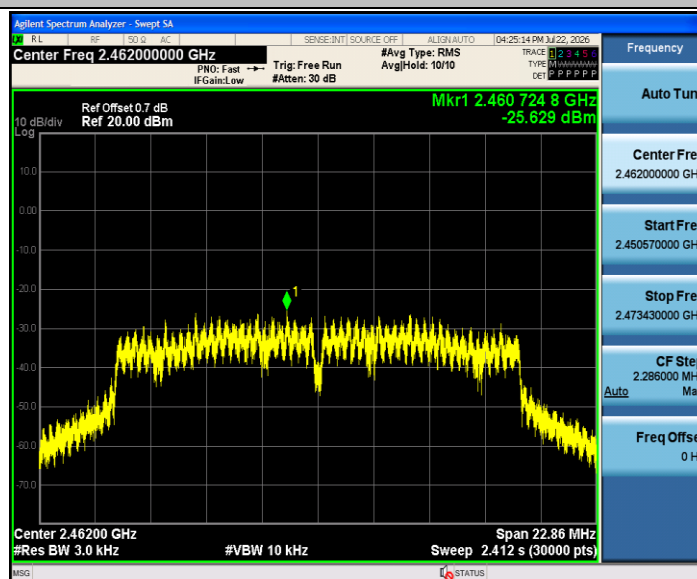
11G_Ant1_2412



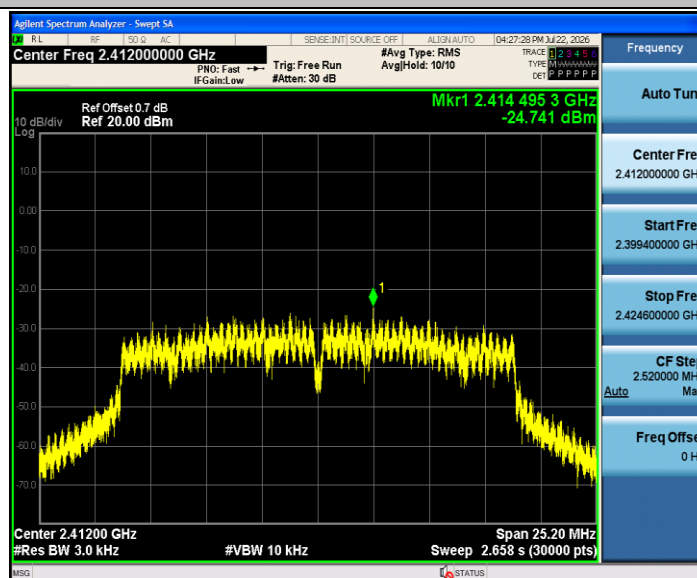
11G_Ant1_2437



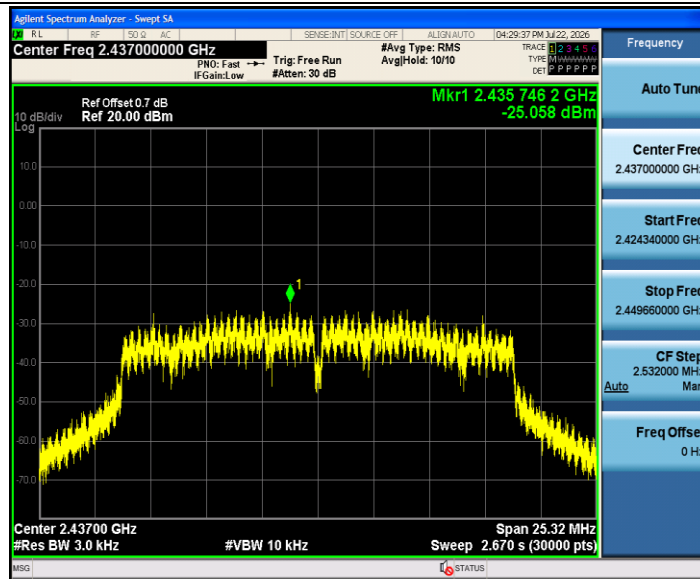
11G_Ant1_2462



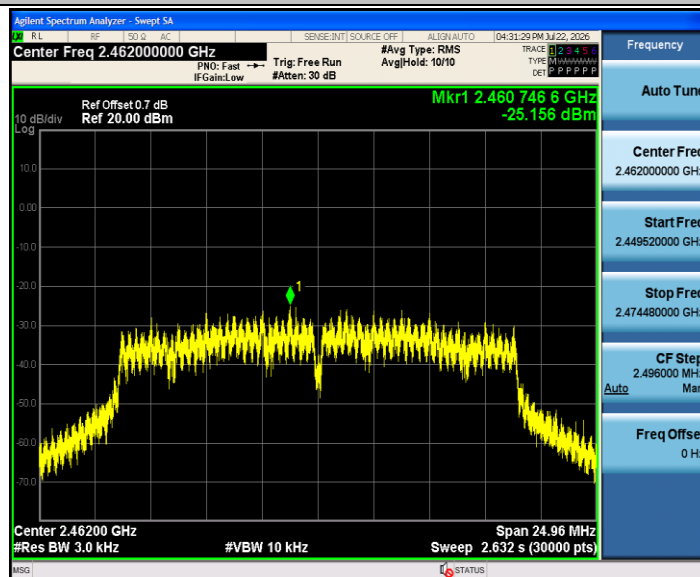
11N20SISO_Ant1_2412



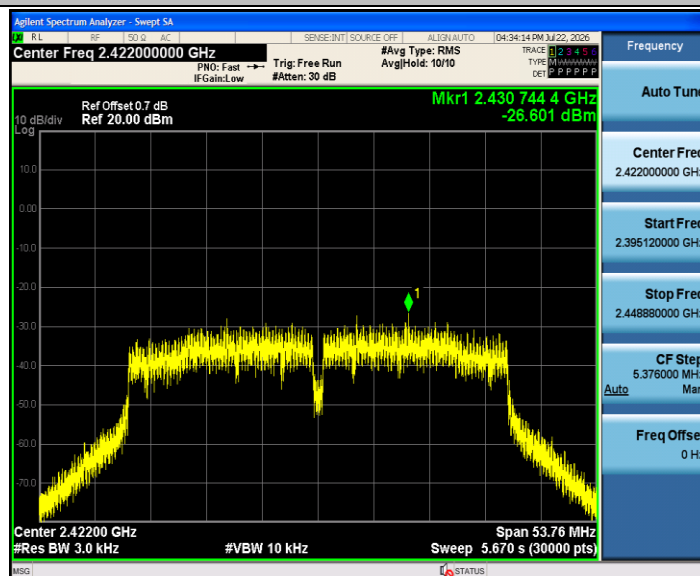
11N20SISO_Ant1_2437



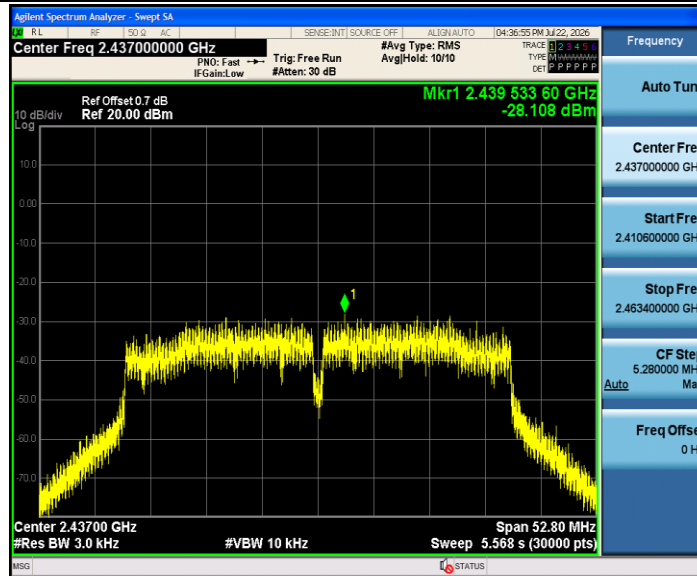
11N20SISO_Ant1_2462



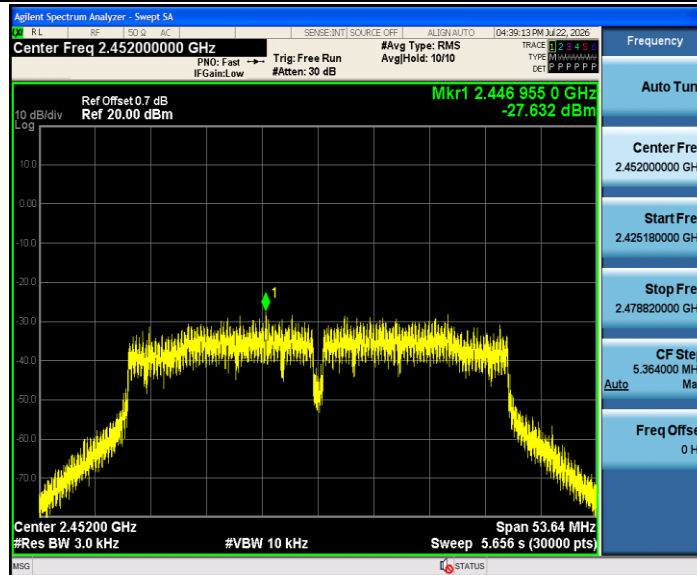
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



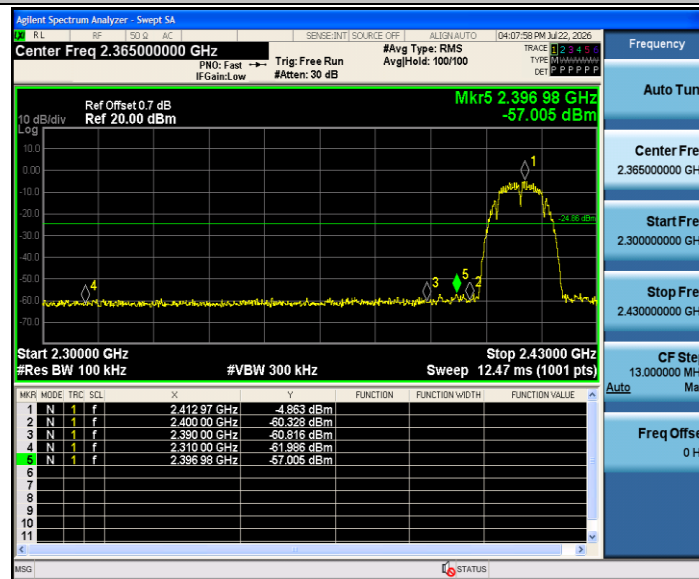
Appendix E: Band edge measurements

Test Result

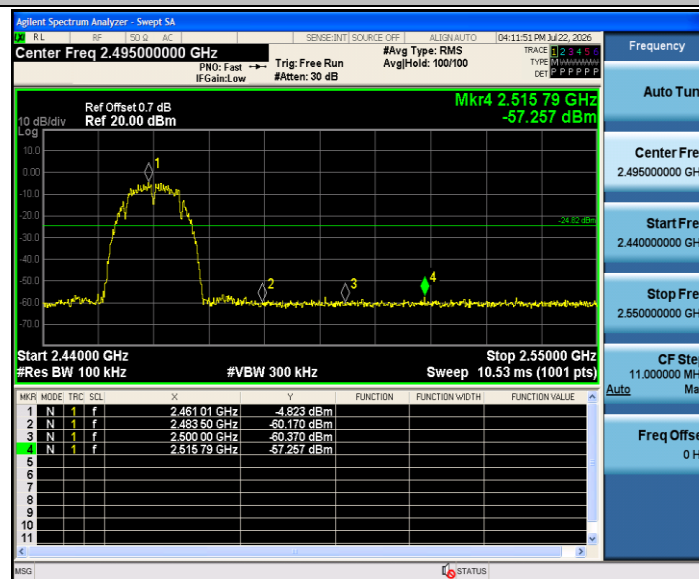
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.86	-57.01	≤-24.86	PASS
		High	2462	-4.82	-57.26	≤-24.82	PASS
11G	Ant1	Low	2412	-10.36	-42.23	≤-30.36	PASS
		High	2462	-10.52	-57.61	≤-30.52	PASS
11N20SISO	Ant1	Low	2412	-10.37	-41.62	≤-30.37	PASS
		High	2462	-10.24	-58.3	≤-30.24	PASS
11N40SISO	Ant1	Low	2422	-13.23	-41.71	≤-33.23	PASS
		High	2452	-13.39	-58.01	≤-33.39	PASS

Test Graphs

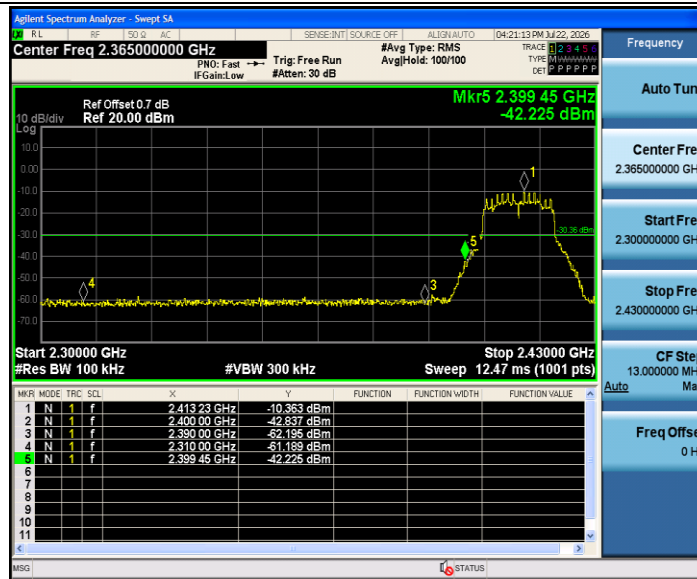
11B_Ant1_Low_2412



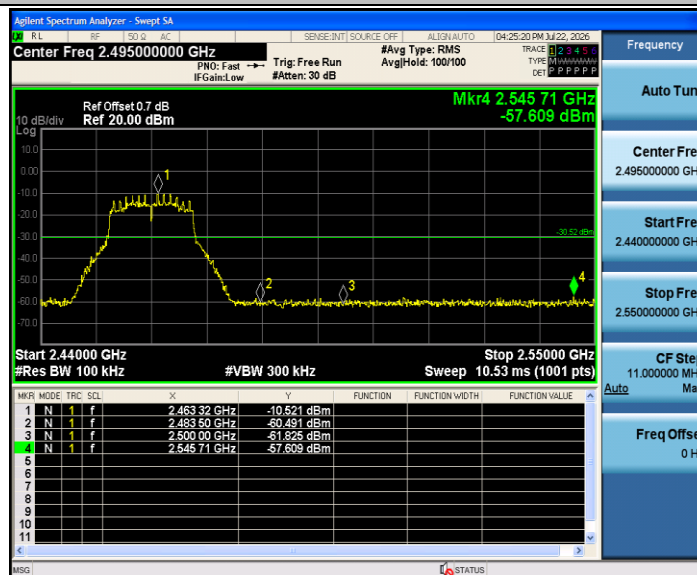
11B_Ant1_High_2462



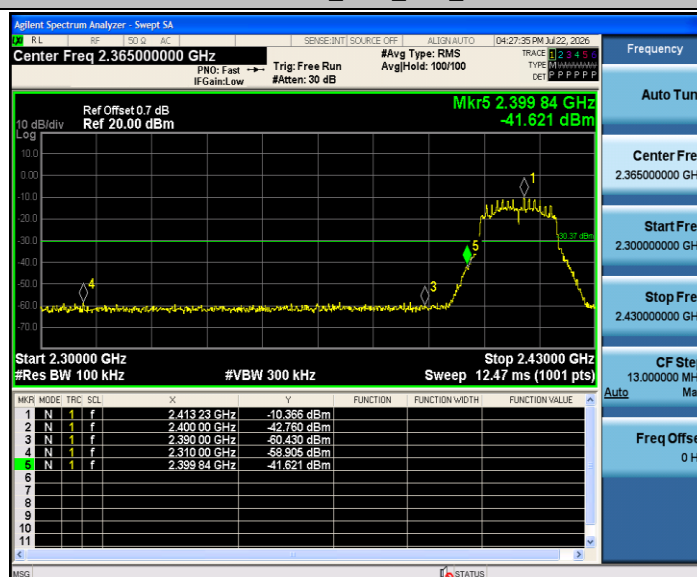
11G_Ant1_Low_2412



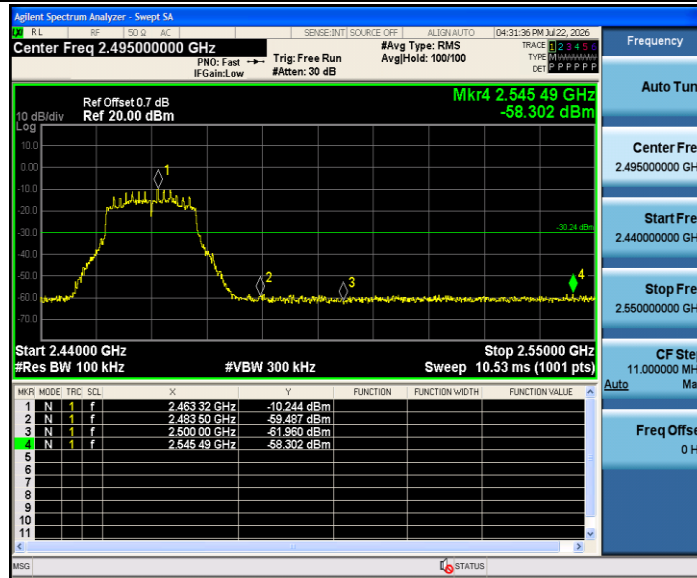
11G_Ant1_High_2462



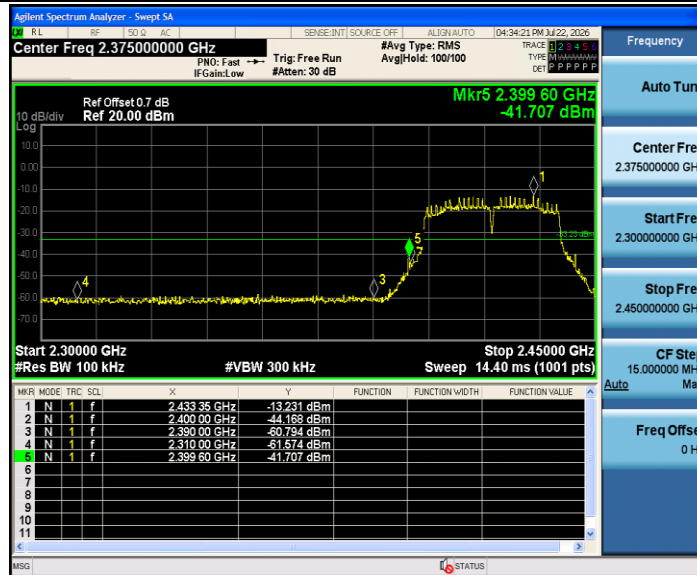
11N20SISO_Ant1_Low_2412



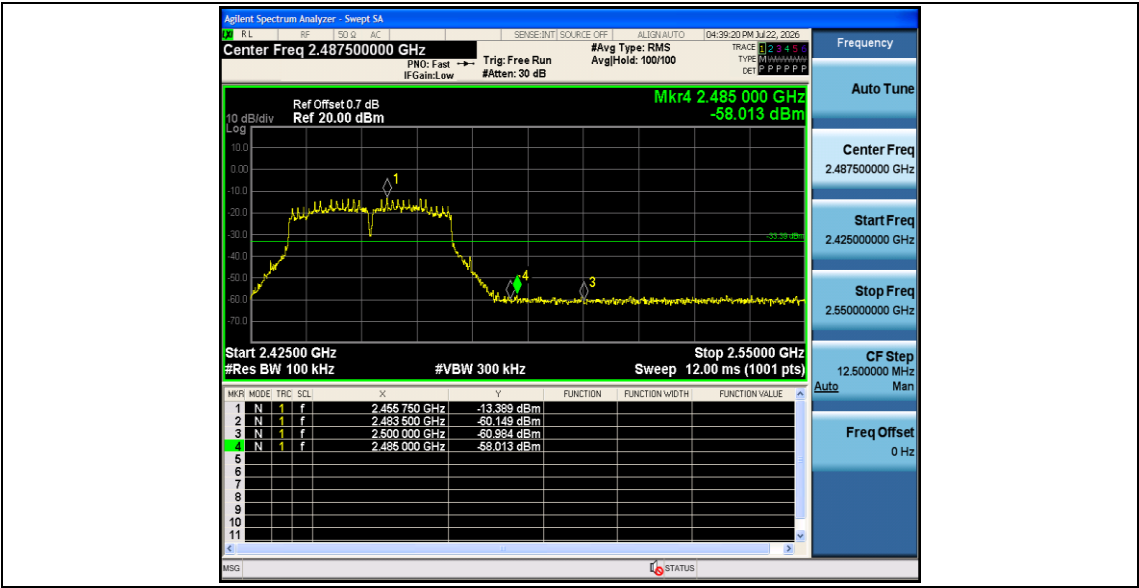
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

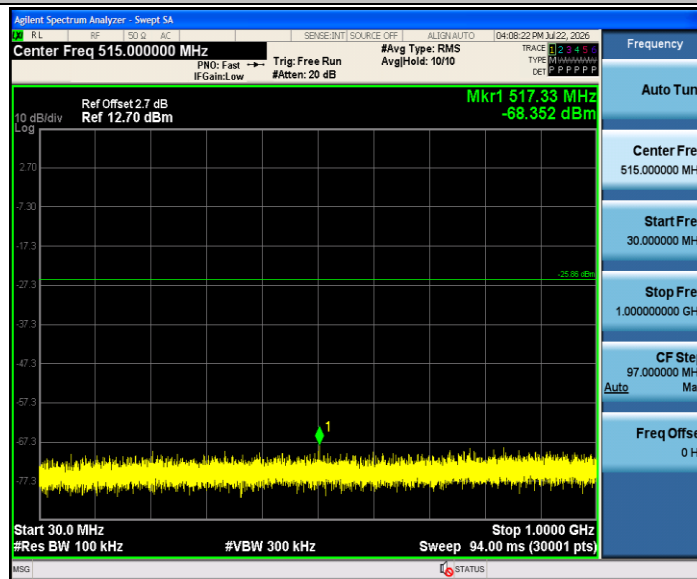
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.86	-5.86	---	PASS
			30~1000	-5.86	-68.35	≤-25.86	PASS
			1000~26500	-5.86	-46.42	≤-25.86	PASS
		2437	Reference	-6.11	-6.11	---	PASS
			30~1000	-6.11	-68.84	≤-26.11	PASS
			1000~26500	-6.11	-46.1	≤-26.11	PASS
		2462	Reference	-5.08	-5.08	---	PASS
			30~1000	-5.08	-67.67	≤-25.08	PASS
			1000~26500	-5.08	-46.6	≤-25.08	PASS
11G	Ant1	2412	Reference	-11.98	-11.98	---	PASS
			30~1000	-11.98	-68.39	≤-31.98	PASS
			1000~26500	-11.98	-46.6	≤-31.98	PASS
		2437	Reference	-11.26	-11.26	---	PASS
			30~1000	-11.26	-68.6	≤-31.26	PASS
			1000~26500	-11.26	-46.12	≤-31.26	PASS
		2462	Reference	-11.19	-11.19	---	PASS
			30~1000	-11.19	-68.91	≤-31.19	PASS
			1000~26500	-11.19	-45.96	≤-31.19	PASS
11N20SISO	Ant1	2412	Reference	-13.29	-13.29	---	PASS
			30~1000	-13.29	-68.61	≤-33.29	PASS
			1000~26500	-13.29	-46.43	≤-33.29	PASS
		2437	Reference	-11.24	-11.24	---	PASS
			30~1000	-11.24	-68.22	≤-31.24	PASS
			1000~26500	-11.24	-45.86	≤-31.24	PASS
		2462	Reference	-10.91	-10.91	---	PASS
			30~1000	-10.91	-68.11	≤-30.91	PASS
			1000~26500	-10.91	-46.36	≤-30.91	PASS
11N40SISO	Ant1	2422	Reference	-13.79	-13.79	---	PASS
			30~1000	-13.79	-68.5	≤-33.79	PASS
			1000~26500	-13.79	-46.61	≤-33.79	PASS
		2437	Reference	-13.84	-13.84	---	PASS
			30~1000	-13.84	-68.76	≤-33.84	PASS
			1000~26500	-13.84	-46.06	≤-33.84	PASS
		2452	Reference	-14.12	-14.12	---	PASS
			30~1000	-14.12	-68.6	≤-34.12	PASS
			1000~26500	-14.12	-45.9	≤-34.12	PASS

Test Graphs

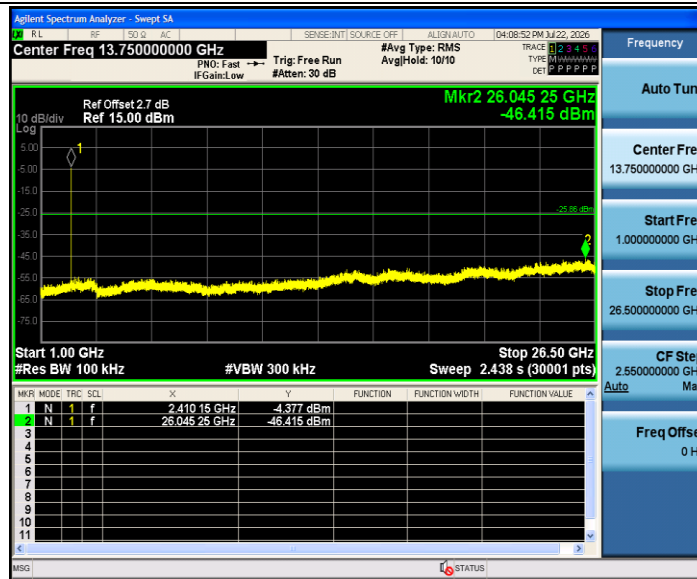
11B_Ant1_2412_0~Reference



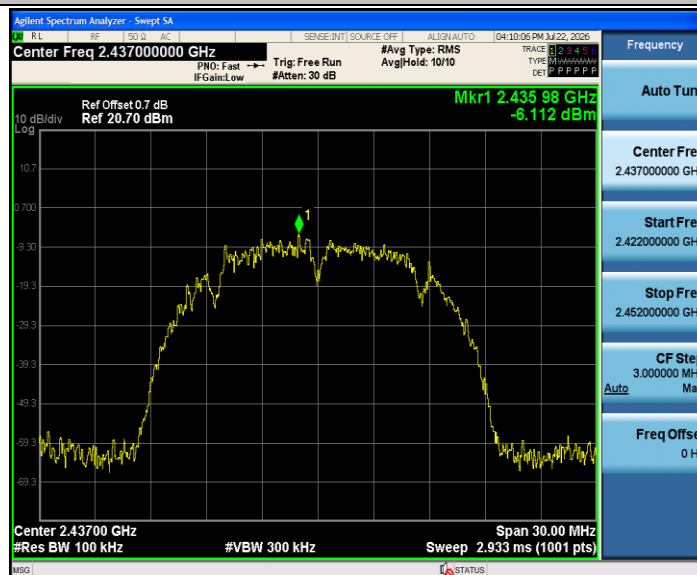
11B_Ant1_2412_30~1000



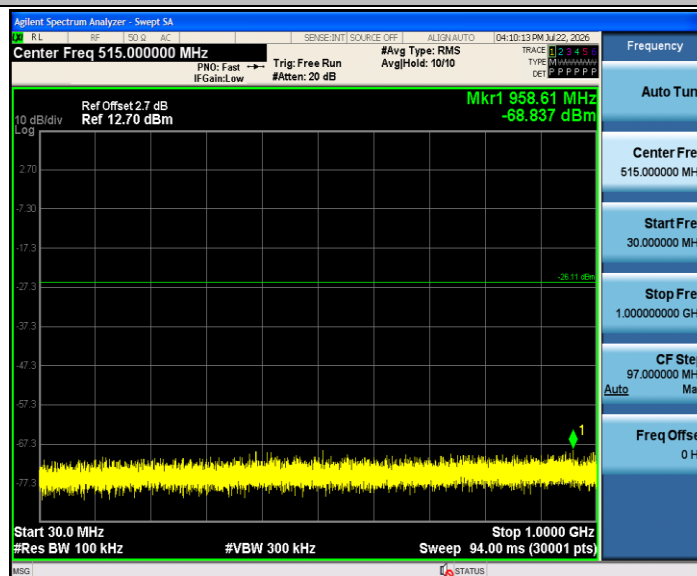
11B_Ant1_2412_1000~26500



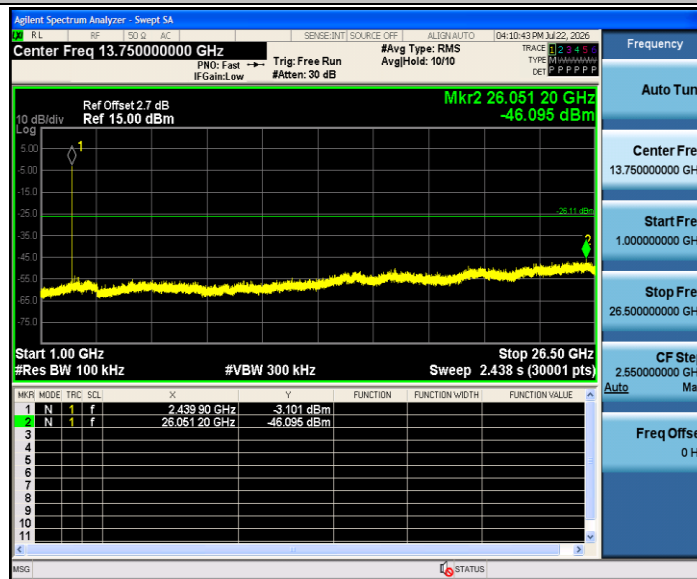
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



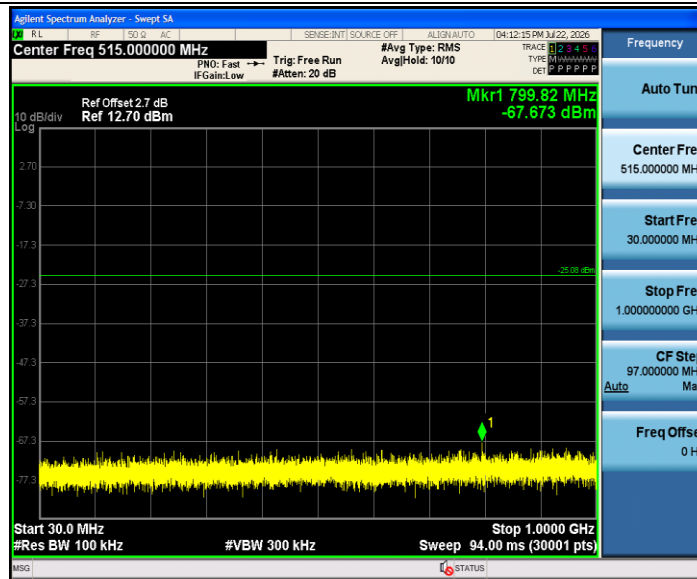
11B_Ant1_2437_1000~26500



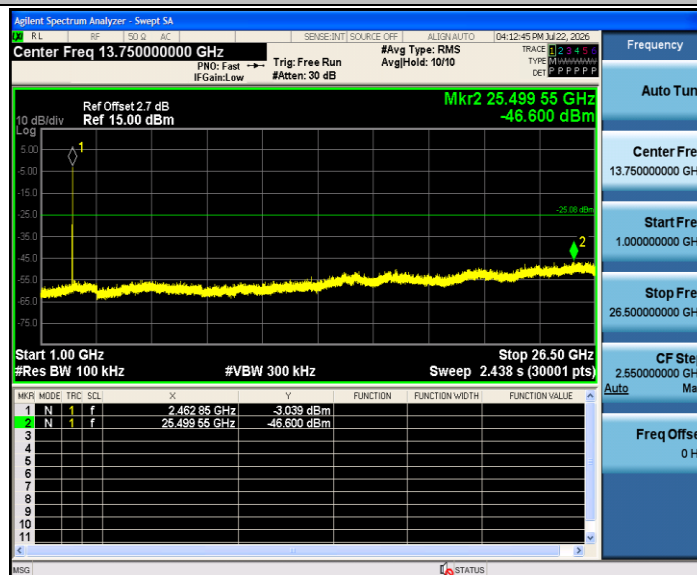
11B_Ant1_2462_0~Reference



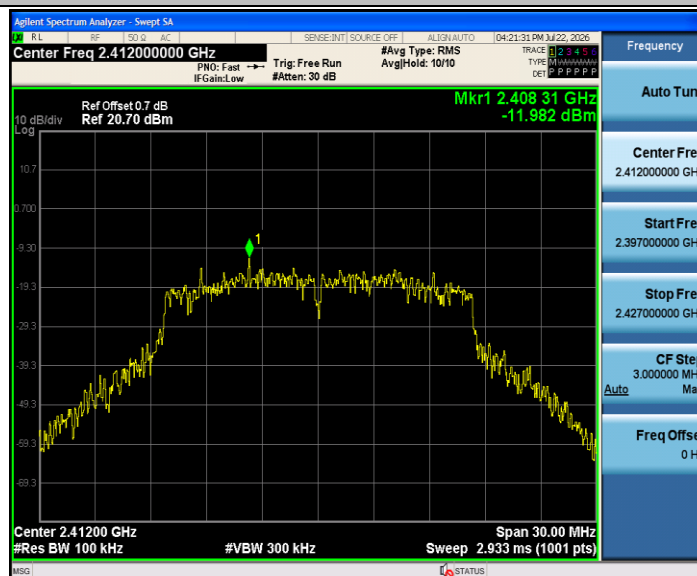
11B_Ant1_2462_30~1000



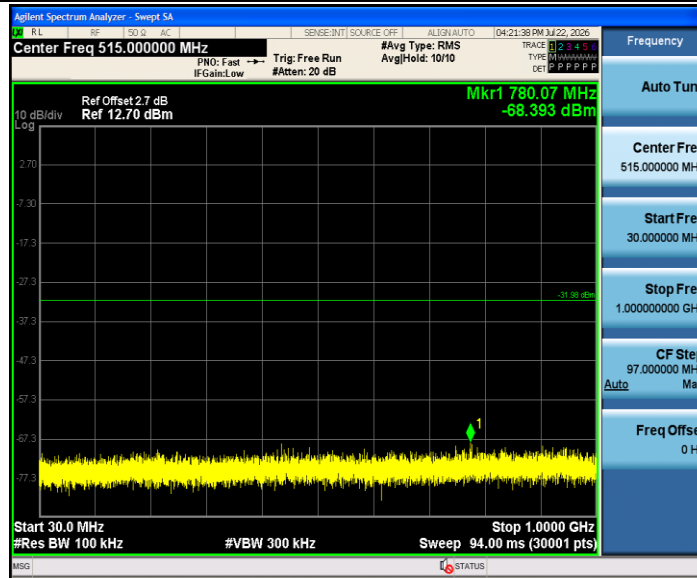
11B_Ant1_2462_1000~26500



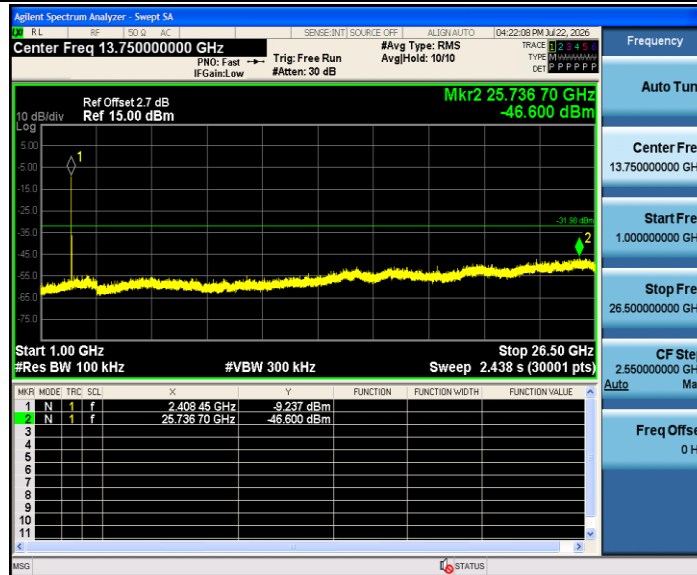
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



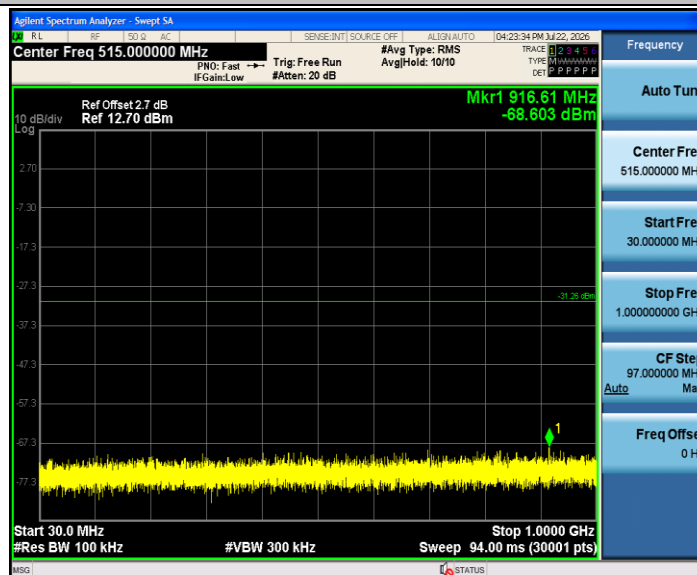
11G_Ant1_2412_1000~26500



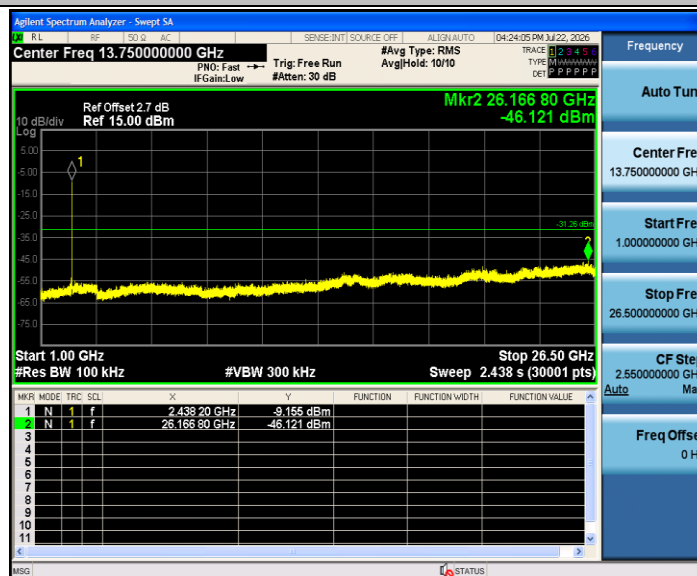
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



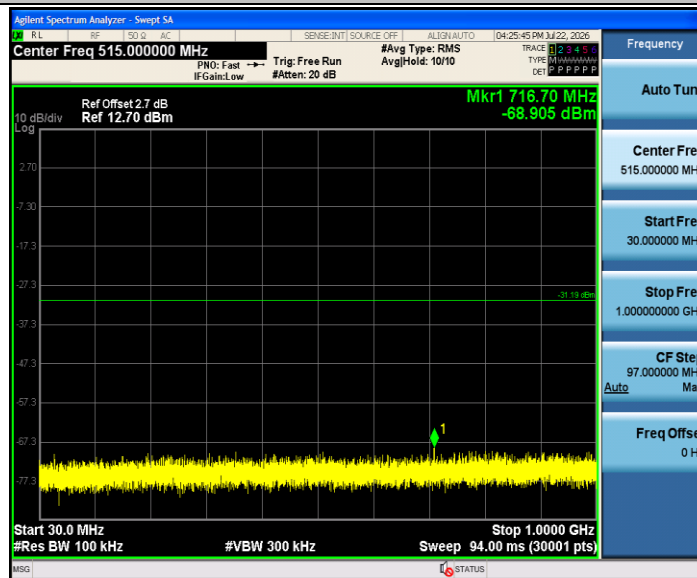
11G_Ant1_2437_1000~26500



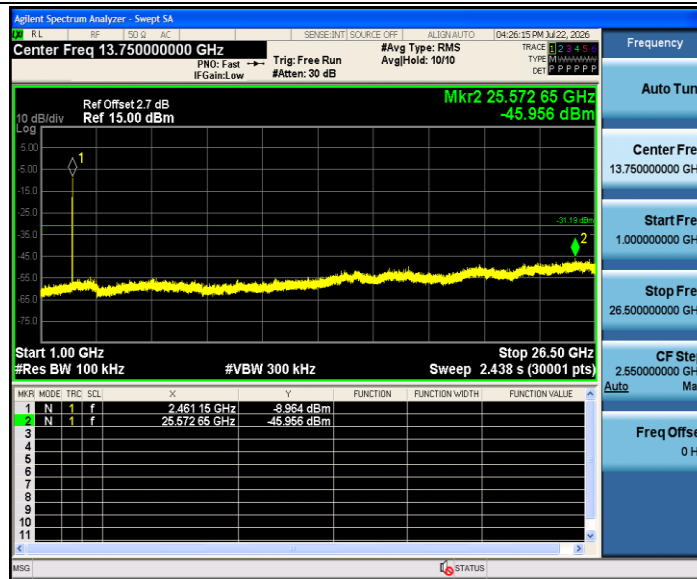
11G_Ant1_2462_0~Reference



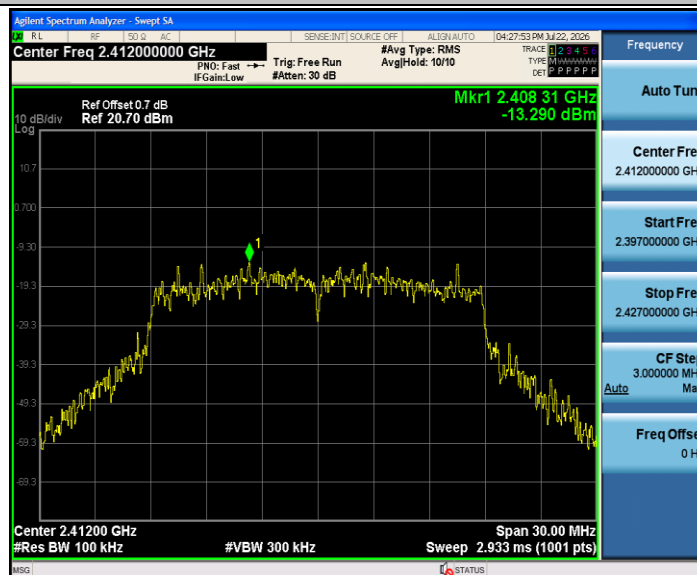
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

