

Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BRMF-K1

Company : Shenzhen Hongtu Chuangzhan Industrial Co., LTD

EUT : Magnetic selfie screen

Model Number : K1

Report No. : CTA25072300502

Reviewed By : Eric Wang

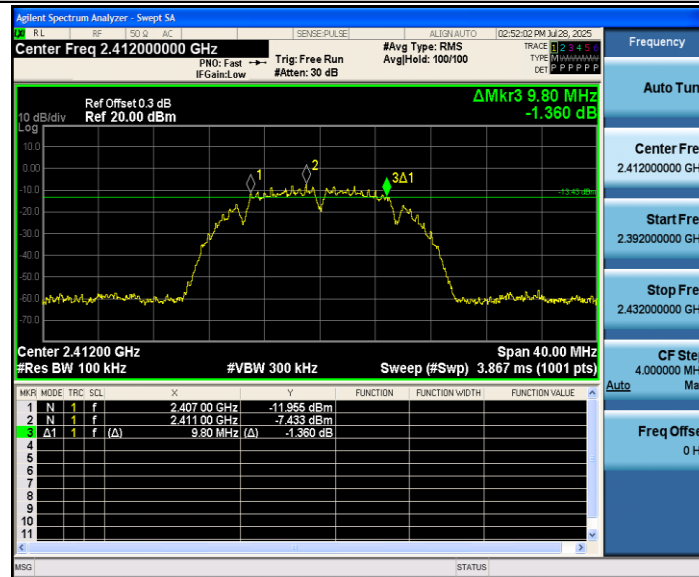
Appendix A: DTS Bandwidth

Test Result

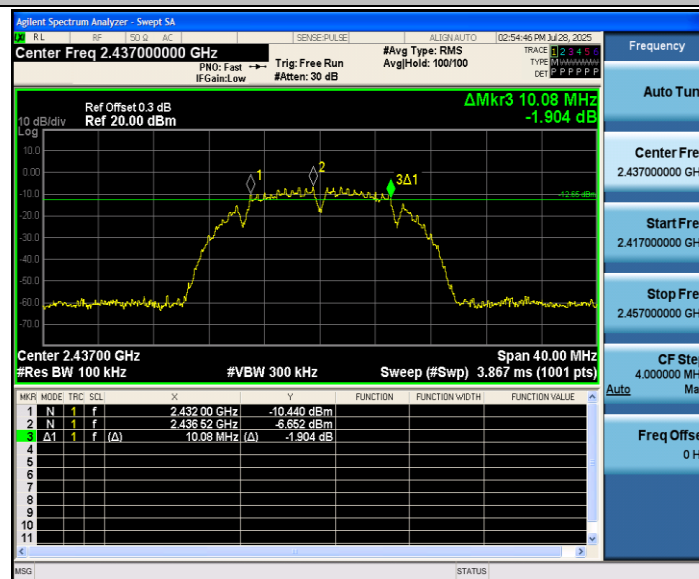
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.800	2407.000	2416.800	0.5	PASS
		2437	10.080	2432.000	2442.080	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	15.080	2404.440	2419.520	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.040	2404.520	2419.560	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N40SISO	Ant1	2422	33.760	2405.760	2439.520	0.5	PASS
		2437	33.760	2420.760	2454.520	0.5	PASS
		2452	33.840	2435.680	2469.520	0.5	PASS

Test Graphs

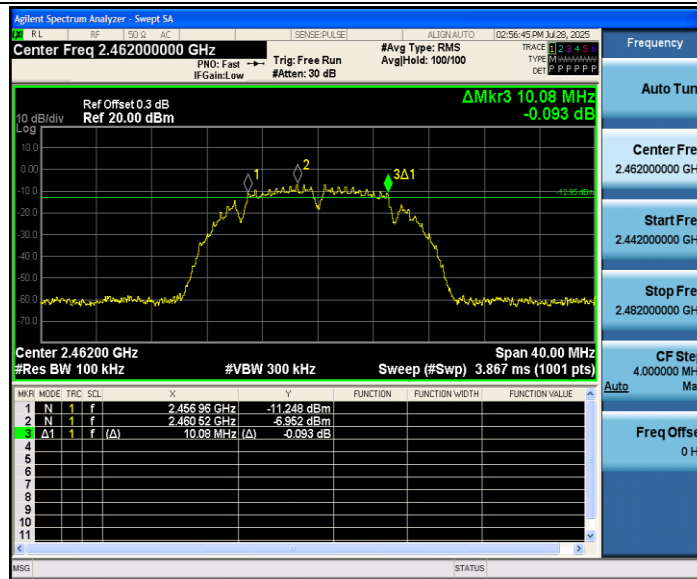
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



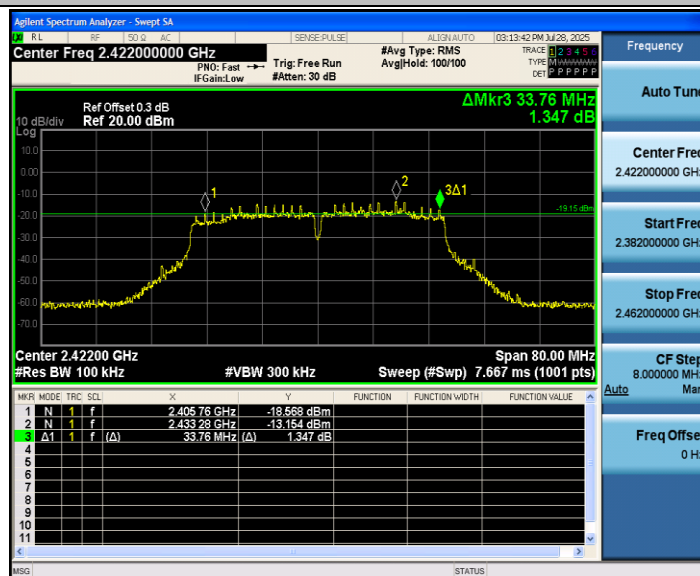
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



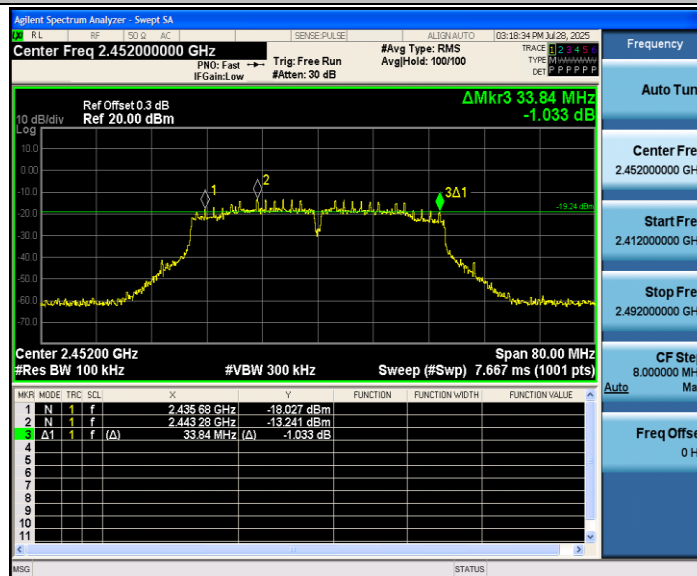
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



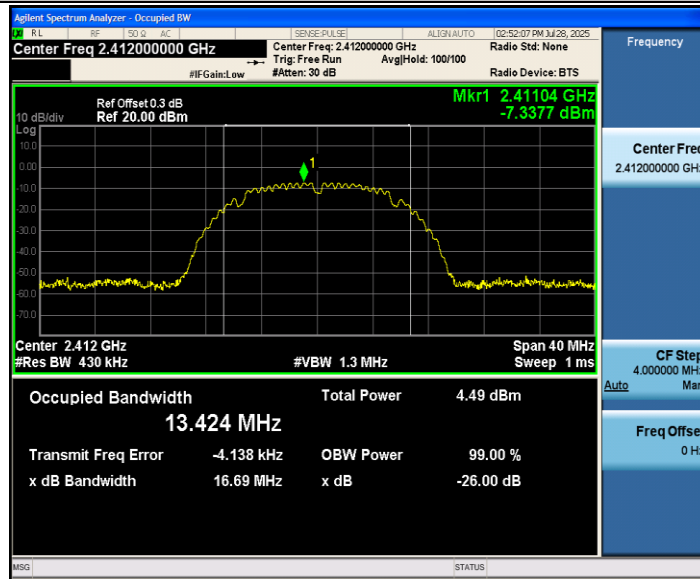
Appendix B: Occupied Channel Bandwidth

Test Result

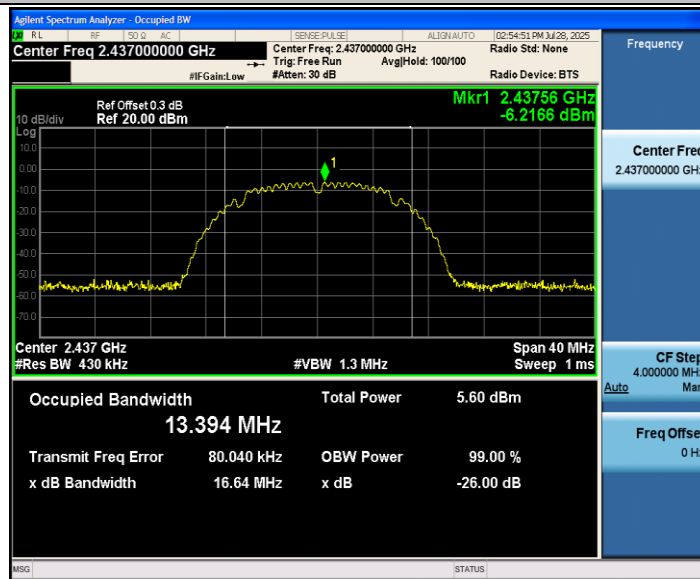
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.424	2405.2839	2418.7079	---	---
		2437	13.394	2430.3830	2443.7770	---	---
		2462	13.403	2455.2666	2468.6696	---	---
11G	Ant1	2412	16.788	2403.5971	2420.3851	---	---
		2437	16.736	2428.7528	2445.4888	---	---
		2462	16.692	2453.6560	2470.3480	---	---
11N20SISO	Ant1	2412	17.860	2403.0691	2420.9291	---	---
		2437	17.795	2428.1674	2445.9624	---	---
		2462	17.774	2453.1261	2470.9001	---	---
11N40SISO	Ant1	2422	36.168	2404.1309	2440.2989	---	---
		2437	36.055	2419.0815	2455.1365	---	---
		2452	35.959	2434.0443	2470.0033	---	---

Test Graphs

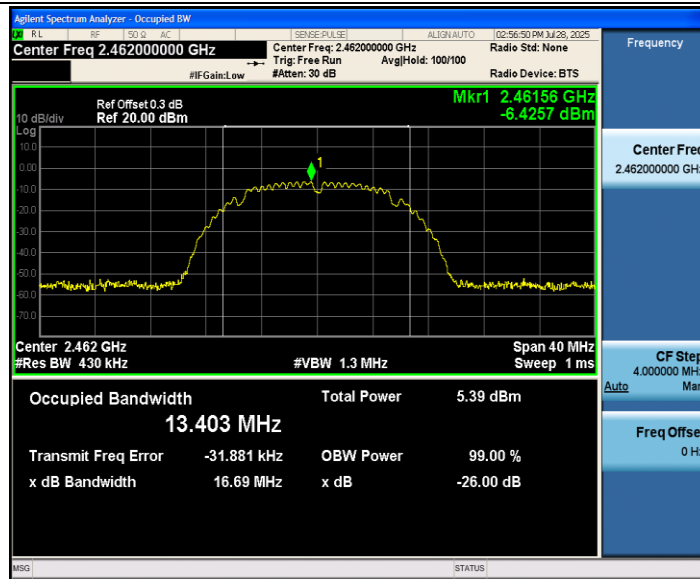
11B_Ant1_2412



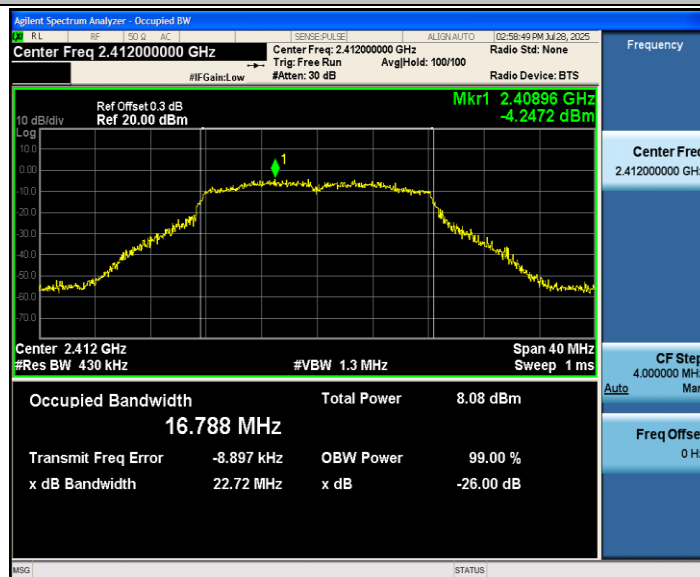
11B_Ant1_2437



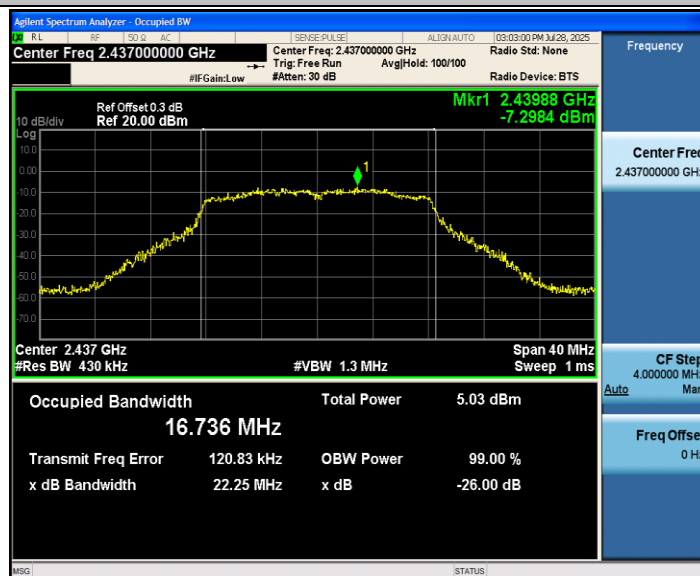
11B_Ant1_2462



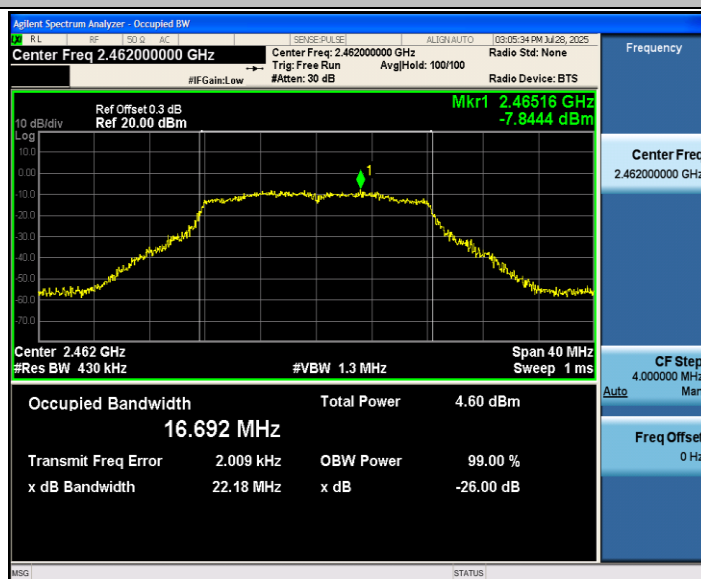
11G_Ant1_2412



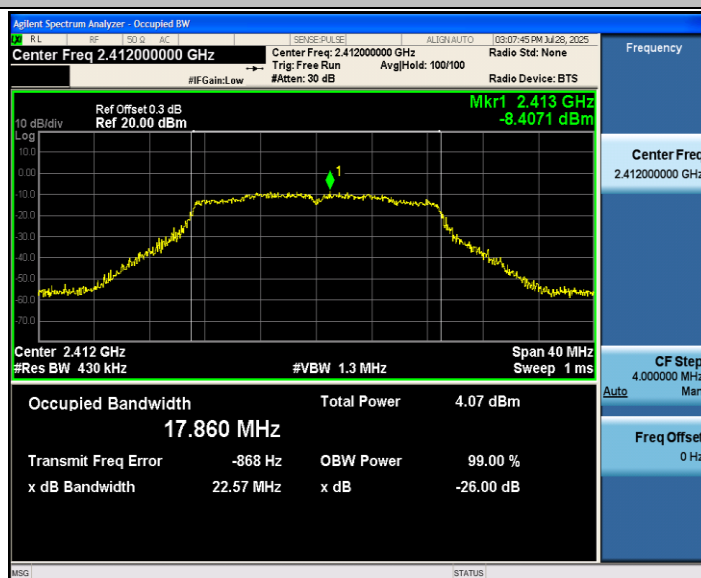
11G_Ant1_2437



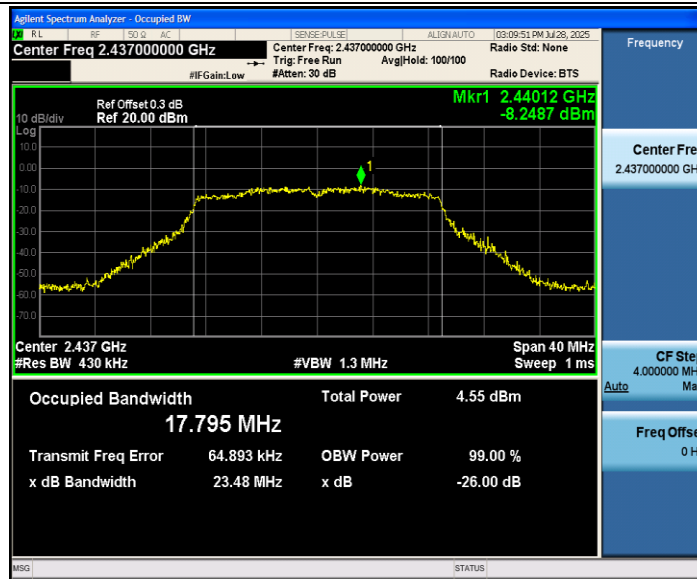
11G_Ant1_2462



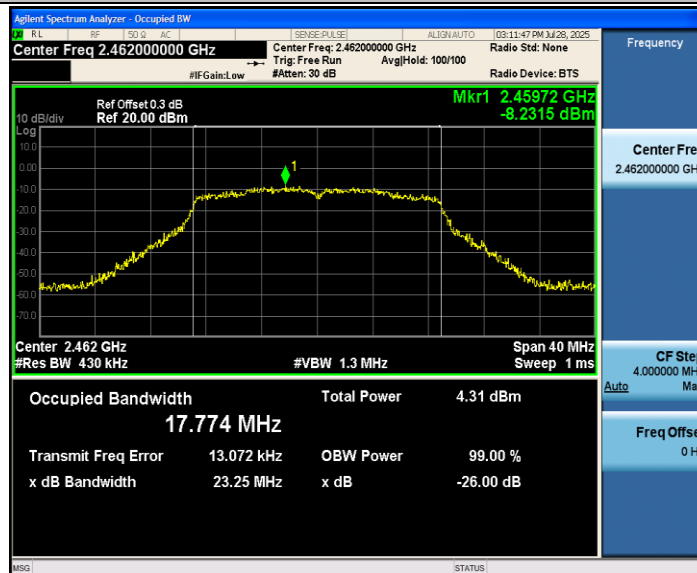
11N20SISO_Ant1_2412



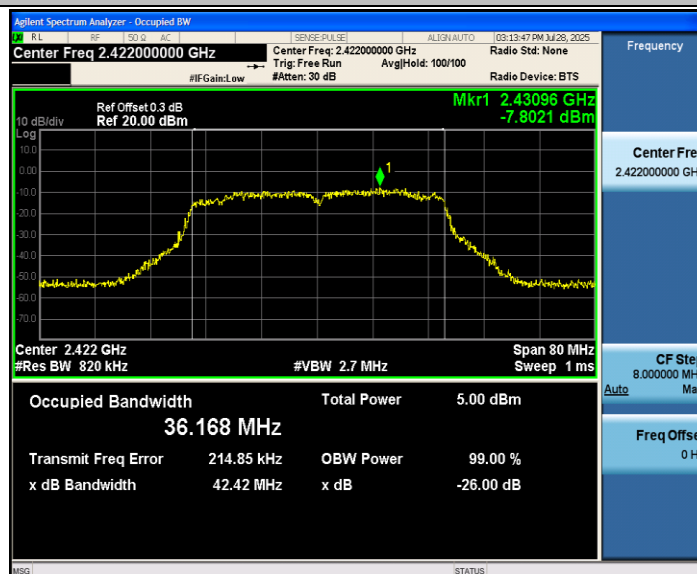
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	4.64	≤30.00	PASS
		2437	5.44	≤30.00	PASS
		2462	5.18	≤30.00	PASS
11G	Ant1	2412	4.78	≤30.00	PASS
		2437	4.79	≤30.00	PASS
		2462	4.95	≤30.00	PASS
11N20SISO	Ant1	2412	4.42	≤30.00	PASS
		2437	4.86	≤30.00	PASS
		2462	4.79	≤30.00	PASS
11N40SISO	Ant1	2422	4.98	≤30.00	PASS
		2437	5.24	≤30.00	PASS
		2452	5.38	≤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	-21.08	≤8.00	PASS
		2437	-20.08	≤8.00	PASS
		2462	-20.19	≤8.00	PASS
11G	Ant1	2412	-25.66	≤8.00	PASS
		2437	-25.76	≤8.00	PASS
		2462	-25.69	≤8.00	PASS
11N20SISO	Ant1	2412	-26.25	≤8.00	PASS
		2437	-25.48	≤8.00	PASS
		2462	-25.31	≤8.00	PASS
11N40SISO	Ant1	2422	-27.39	≤8.00	PASS
		2437	-28.86	≤8.00	PASS
		2452	-27.29	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



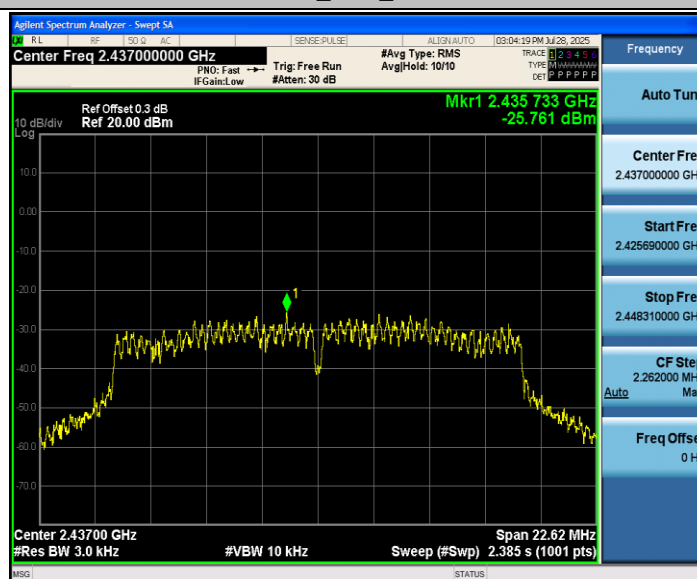
11B_Ant1_2462



11G_Ant1_2412



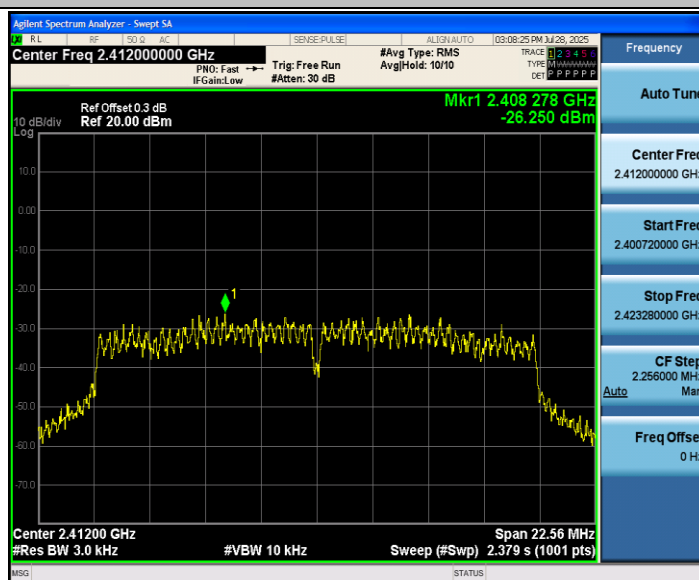
11G_Ant1_2437



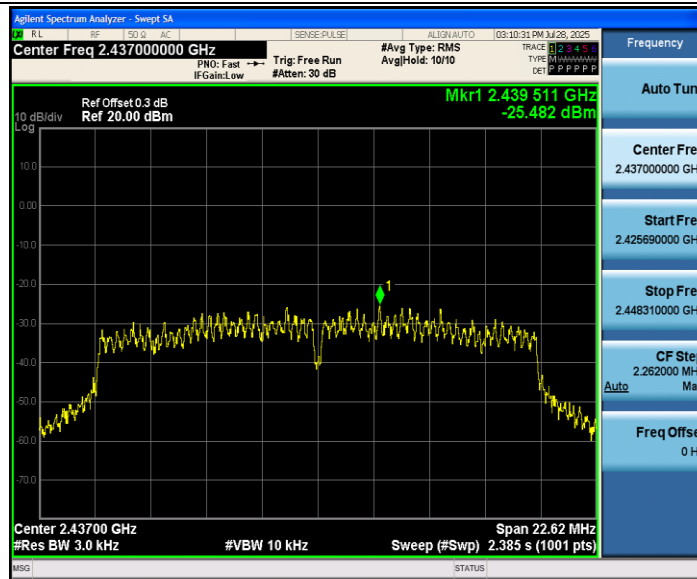
11G_Ant1_2462



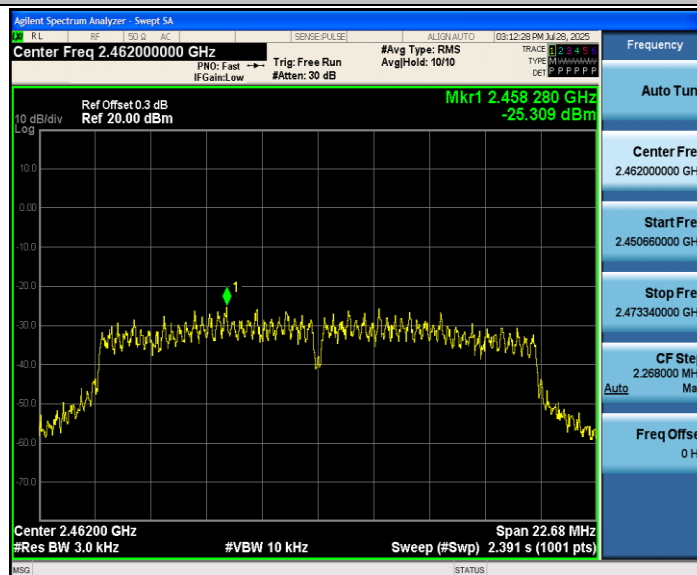
11N20SISO_Ant1_2412



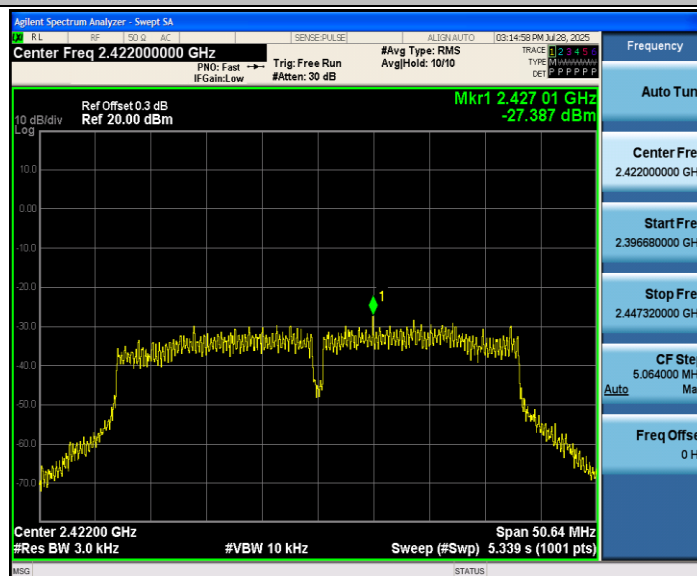
11N20SISO_Ant1_2437



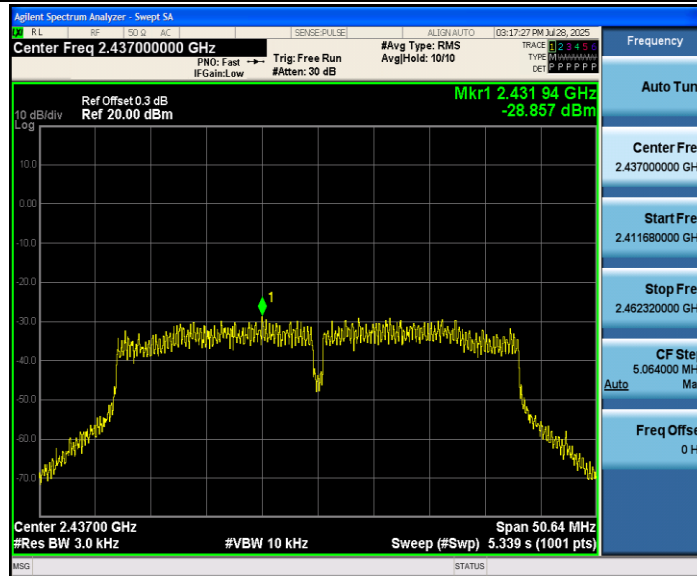
11N20SISO_Ant1_2462



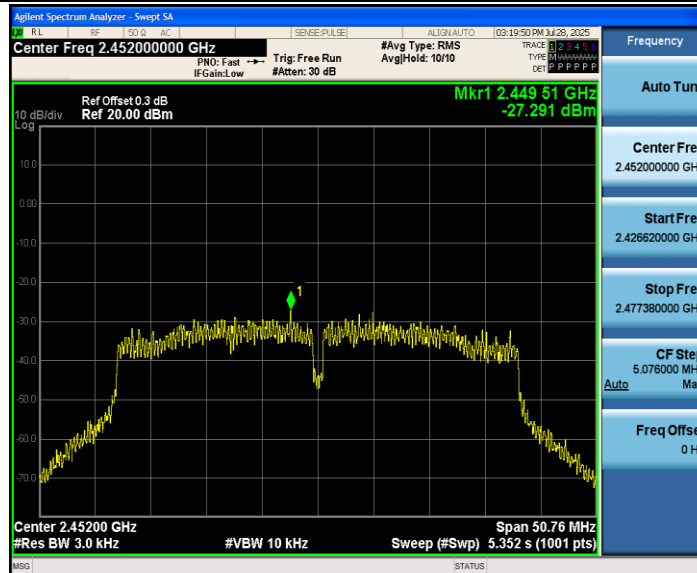
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



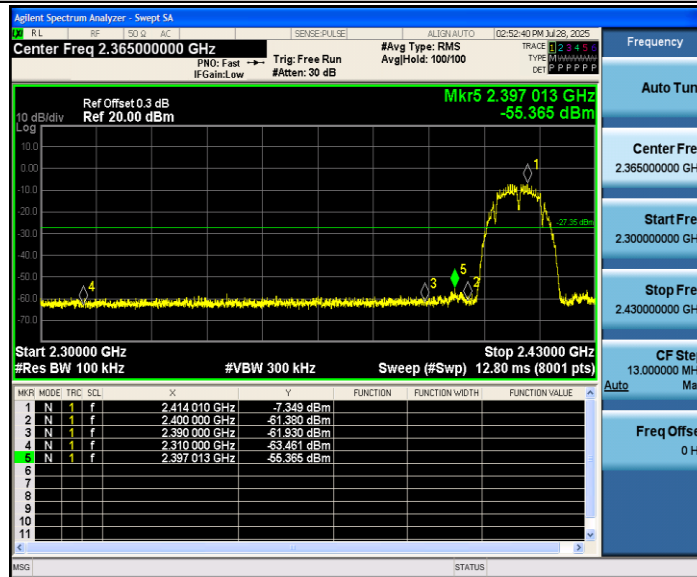
Appendix E: Band edge measurements

Test Result

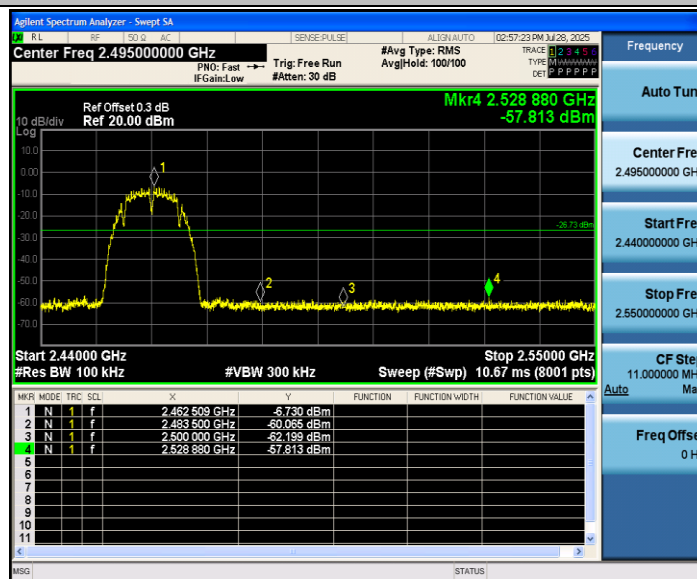
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-7.35	-55.37	≤-27.35	PASS
		High	2462	-6.73	-57.81	≤-26.73	PASS
11G	Ant1	Low	2412	-10.49	-41.44	≤-30.49	PASS
		High	2462	-10.69	-58.14	≤-30.69	PASS
11N20SISO	Ant1	Low	2412	-11.26	-41.52	≤-31.26	PASS
		High	2462	-10.83	-57.34	≤-30.83	PASS
11N40SISO	Ant1	Low	2422	-13.39	-42.19	≤-33.39	PASS
		High	2452	-13.21	-57.91	≤-33.21	PASS

Test Graphs

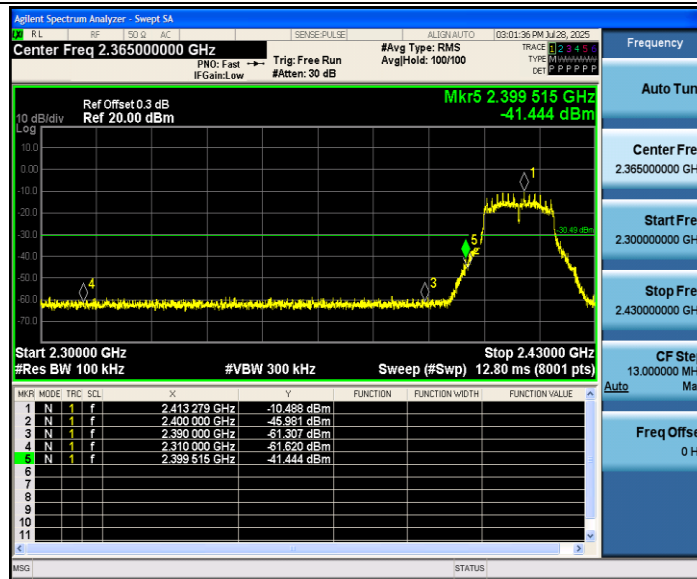
11B_Ant1_Low_2412



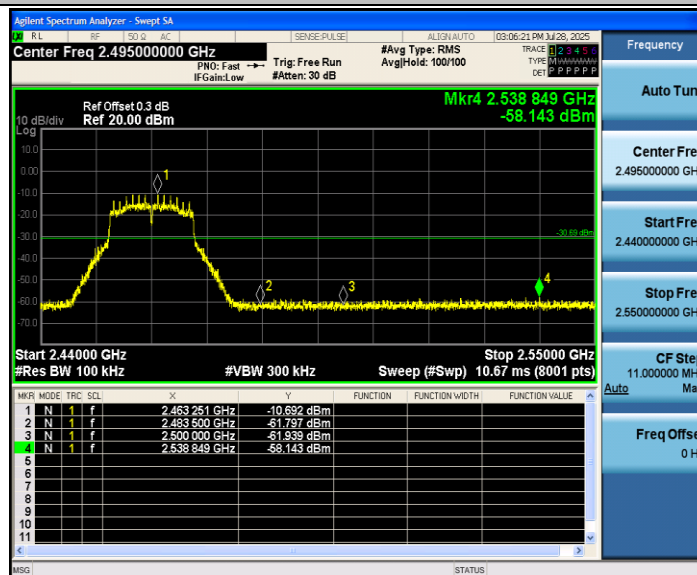
11B_Ant1_High_2462



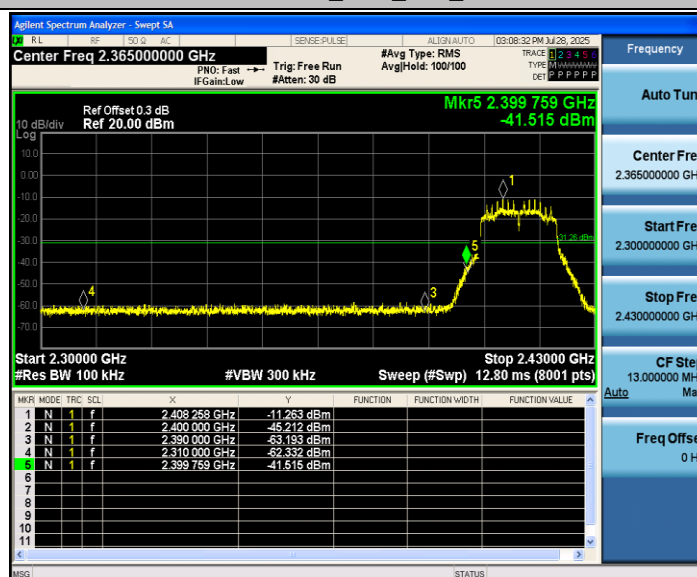
11G_Ant1_Low_2412



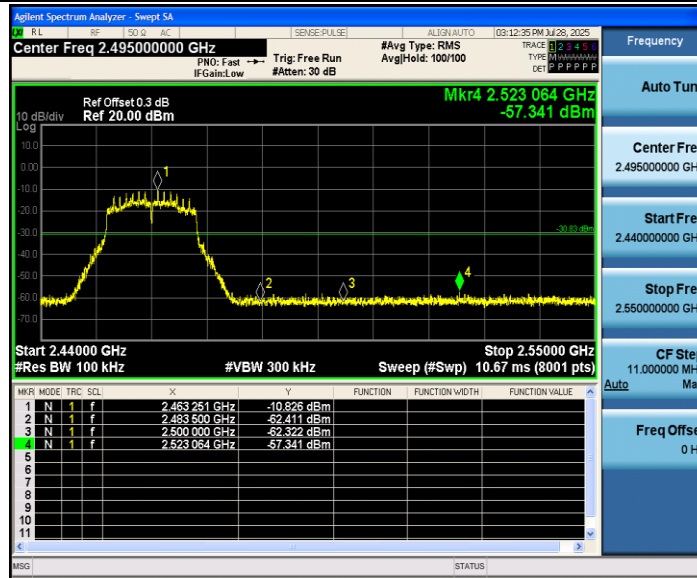
11G_Ant1_High_2462



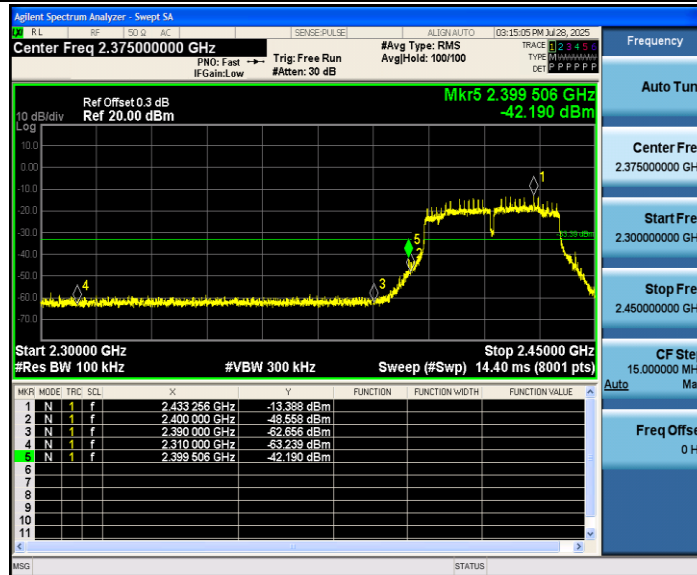
11N20SISO_Ant1_Low_2412



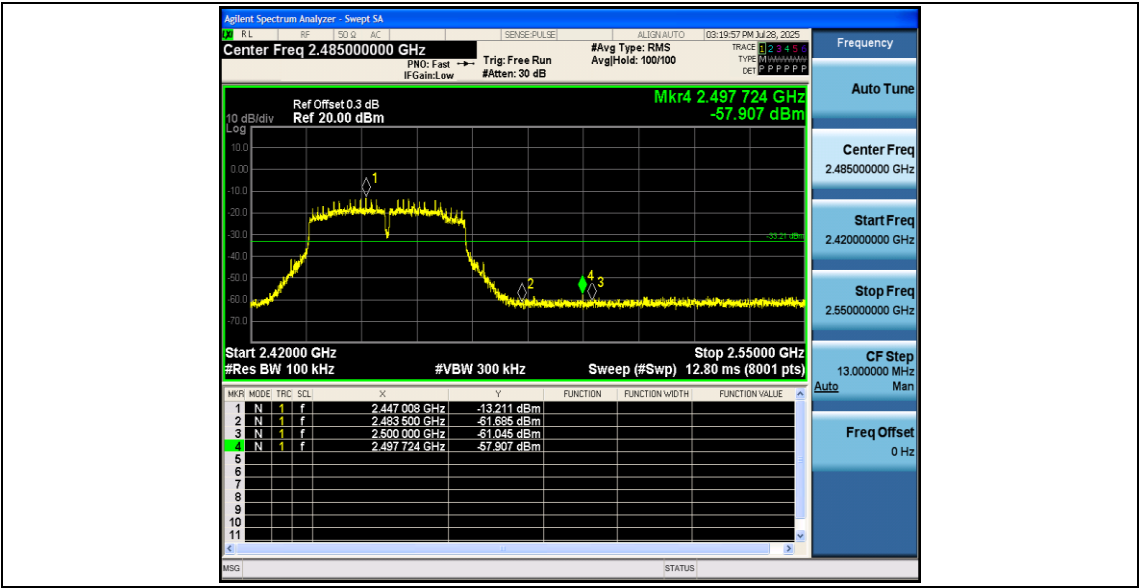
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



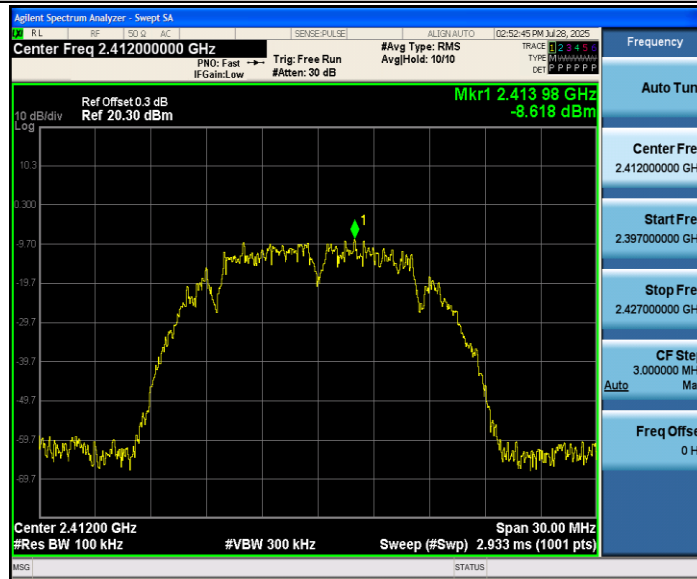
Appendix F: Conducted Spurious Emission

Test Result

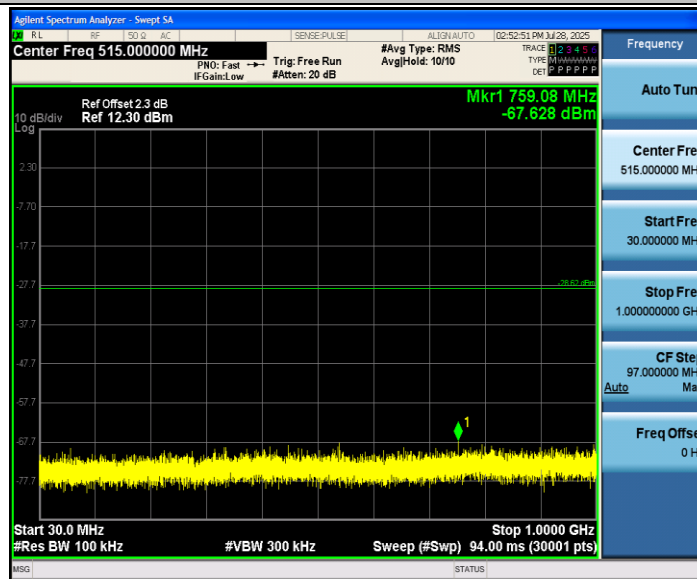
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-8.62	-8.62	---	PASS
			30~1000	-8.62	-67.63	≤-28.62	PASS
			1000~26500	-8.62	-54.97	≤-28.62	PASS
		2437	Reference	-7.25	-7.25	---	PASS
			30~1000	-7.25	-67.98	≤-27.25	PASS
			1000~26500	-7.25	-54.87	≤-27.25	PASS
		2462	Reference	-7.32	-7.32	---	PASS
			30~1000	-7.32	-67.63	≤-27.32	PASS
			1000~26500	-7.32	-54.84	≤-27.32	PASS
11G	Ant1	2412	Reference	-10.90	-10.90	---	PASS
			30~1000	-10.90	-68.15	≤-30.9	PASS
			1000~26500	-10.90	-55.18	≤-30.9	PASS
		2437	Reference	-11.10	-11.10	---	PASS
			30~1000	-11.10	-68.14	≤-31.1	PASS
			1000~26500	-11.10	-55.21	≤-31.1	PASS
		2462	Reference	-10.44	-10.44	---	PASS
			30~1000	-10.44	-67.36	≤-30.44	PASS
			1000~26500	-10.44	-54.25	≤-30.44	PASS
11N20SISO	Ant1	2412	Reference	-11.56	-11.56	---	PASS
			30~1000	-11.56	-68.46	≤-31.56	PASS
			1000~26500	-11.56	-55.33	≤-31.56	PASS
		2437	Reference	-10.68	-10.68	---	PASS
			30~1000	-10.68	-67.97	≤-30.68	PASS
			1000~26500	-10.68	-54.32	≤-30.68	PASS
		2462	Reference	-10.98	-10.98	---	PASS
			30~1000	-10.98	-67.53	≤-30.98	PASS
			1000~26500	-10.98	-55.38	≤-30.98	PASS
11N40SISO	Ant1	2422	Reference	-14.09	-14.09	---	PASS
			30~1000	-14.09	-67.71	≤-34.09	PASS
			1000~26500	-14.09	-55.02	≤-34.09	PASS
		2437	Reference	-14.17	-14.17	---	PASS
			30~1000	-14.17	-68.19	≤-34.17	PASS
			1000~26500	-14.17	-54.27	≤-34.17	PASS
		2452	Reference	-13.57	-13.57	---	PASS
			30~1000	-13.57	-68.27	≤-33.57	PASS
			1000~26500	-13.57	-54.26	≤-33.57	PASS

Test Graphs

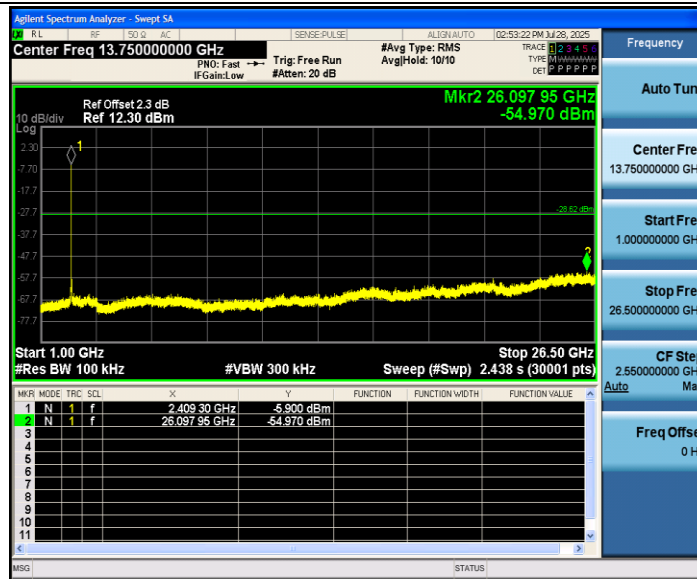
11B_Ant1_2412_0~Reference



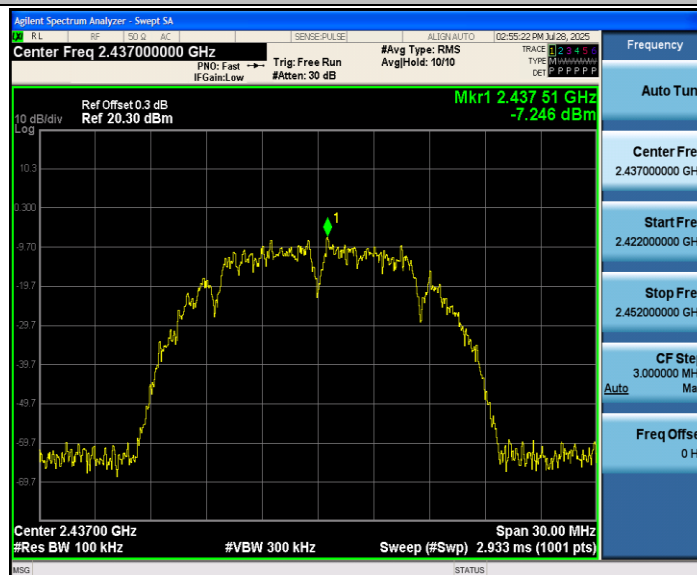
11B_Ant1_2412_30~1000



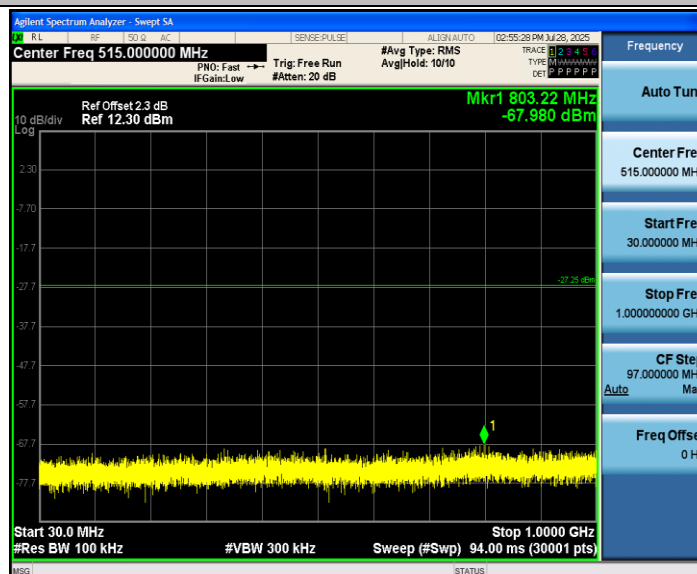
11B_Ant1_2412_1000~26500



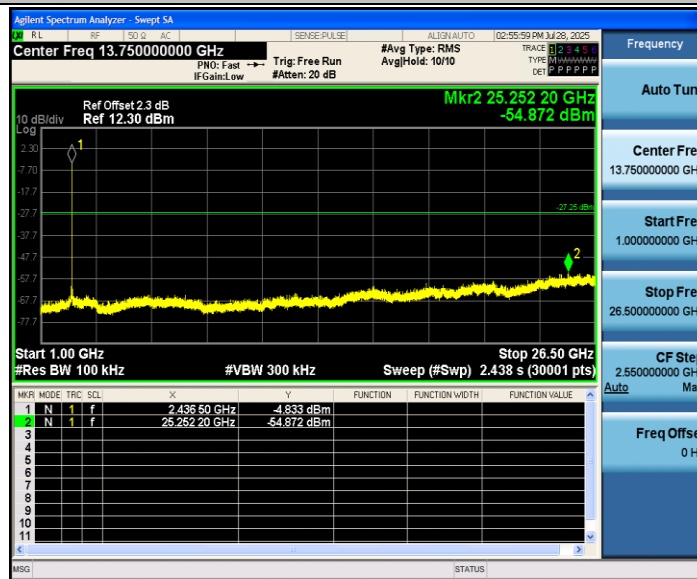
11B_Ant1_2437_0~Reference



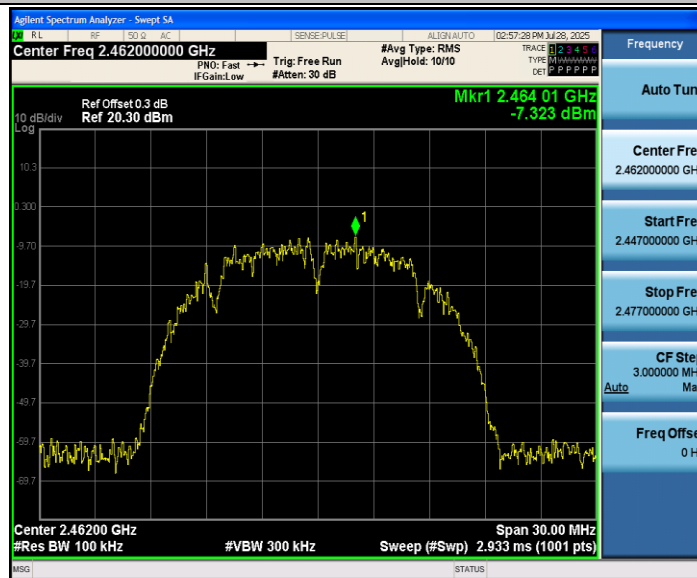
11B_Ant1_2437_30~1000



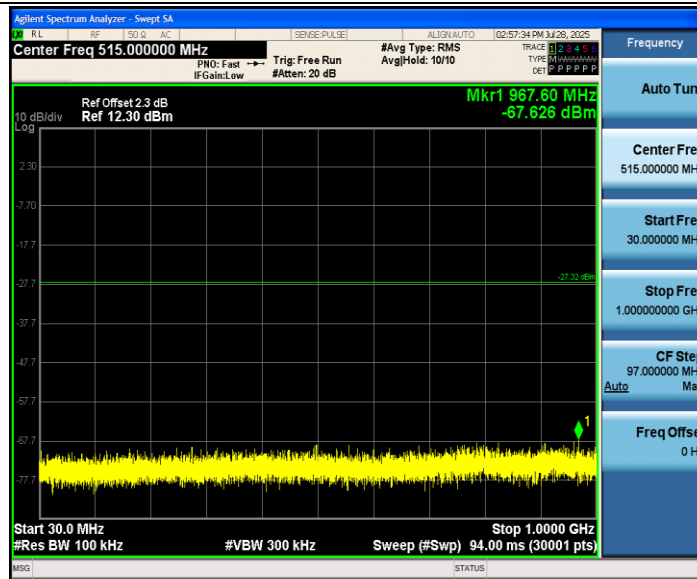
11B_Ant1_2437_1000~26500



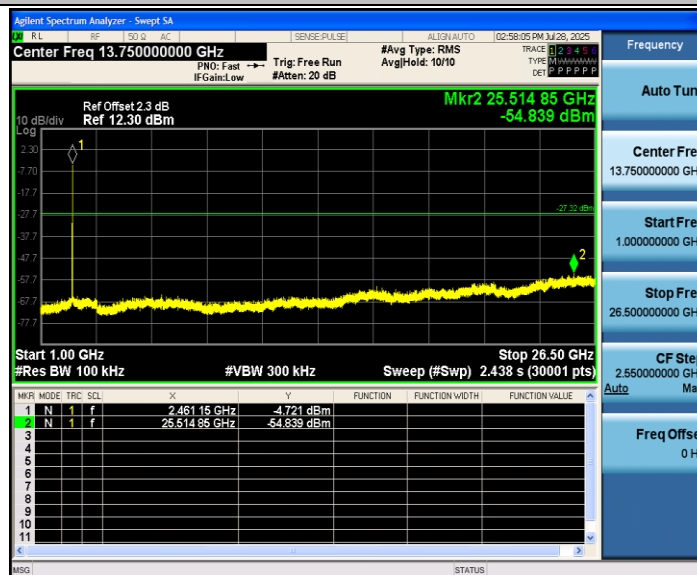
11B_Ant1_2462_0~Reference



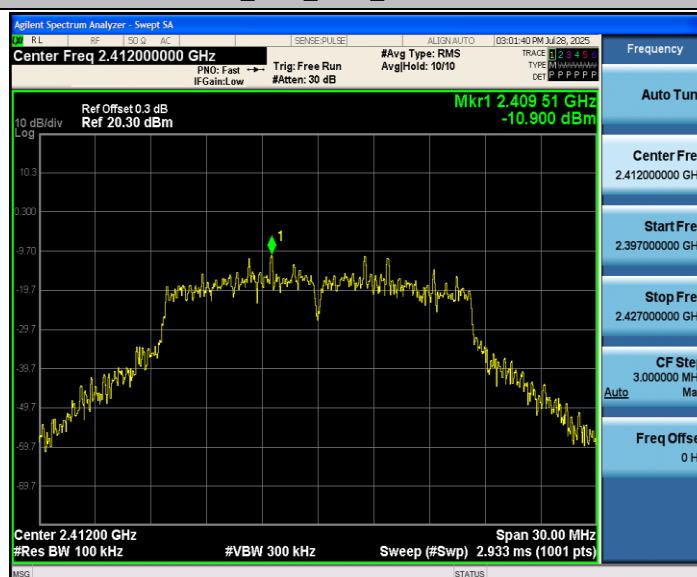
11B_Ant1_2462_30~1000



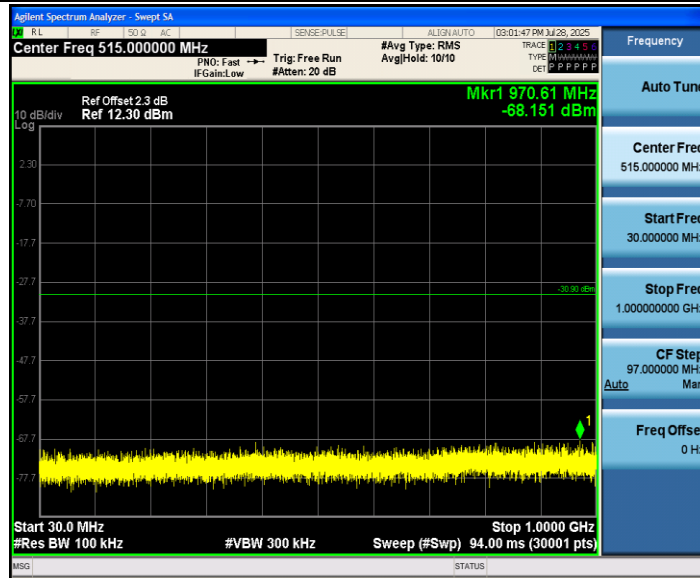
11B_Ant1_2462_1000~26500



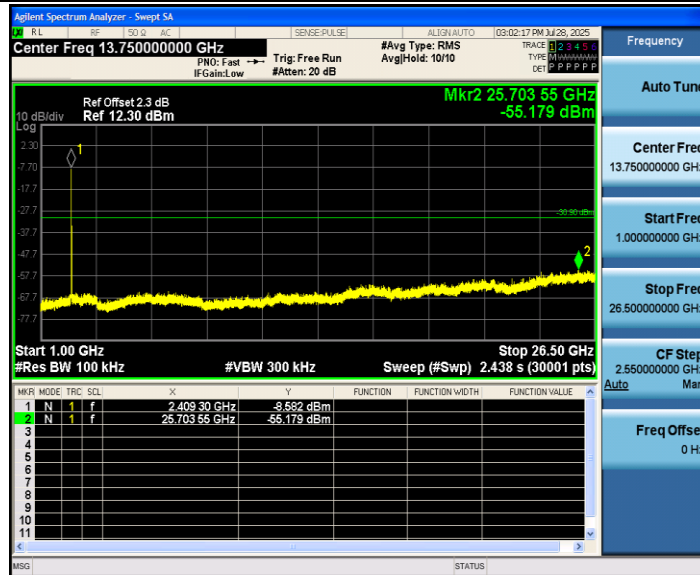
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



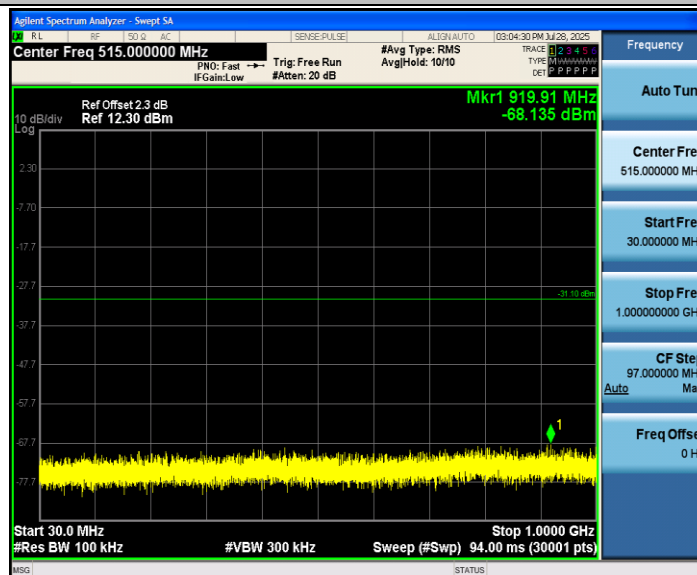
11G_Ant1_2412_1000~26500



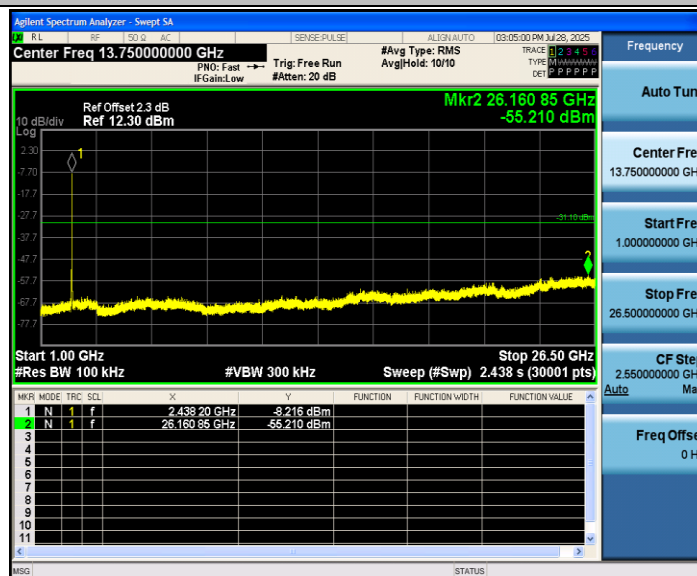
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



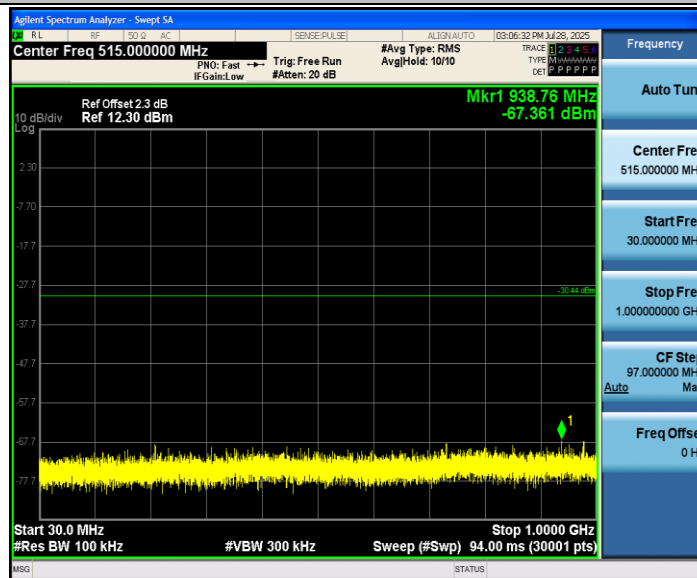
11G_Ant1_2437_1000~26500



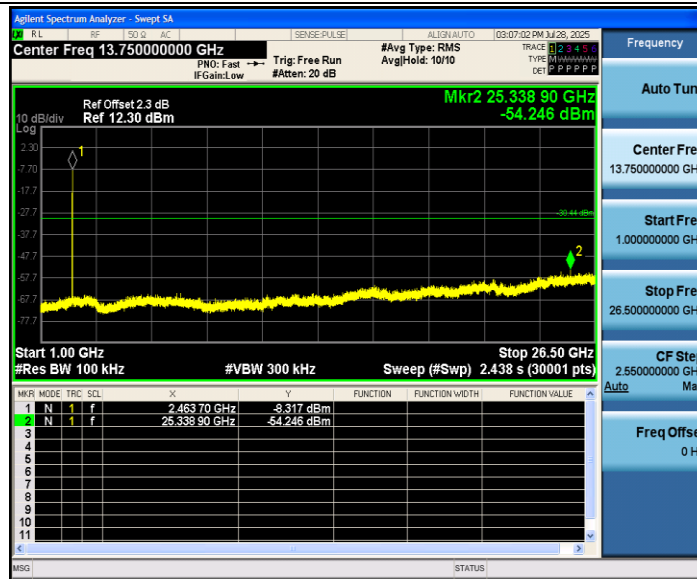
11G_Ant1_2462_0~Reference



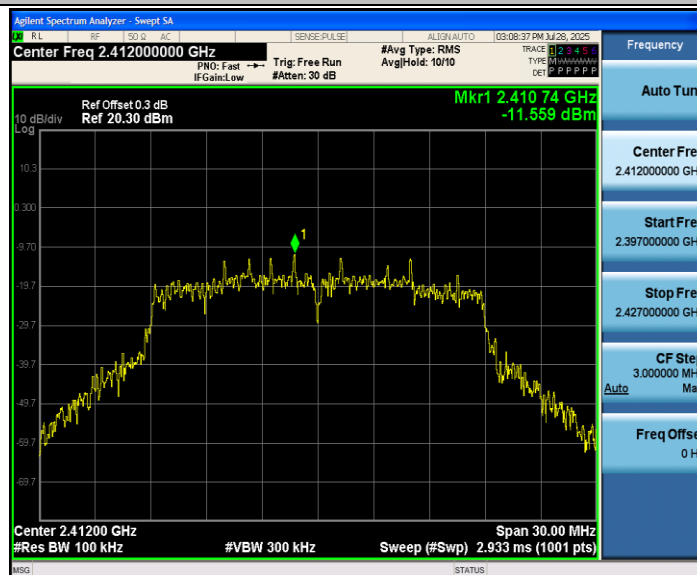
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

