

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AWOAX121P5SH-80STD

Company : Shenzhen CLT Electronics Co., Ltd

EUT : LED commercial display poster screen

Model Number : X121P5SH-80Std

Report No. : CTA26072002701

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	10.200	2431.920	2442.120	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.520	2404.280	2419.800	0.5	PASS
		2437	15.760	2429.280	2445.040	0.5	PASS
		2462	15.560	2454.440	2470.000	0.5	PASS
11N20SISO	Ant1	2412	16.080	2403.760	2419.840	0.5	PASS
		2437	16.480	2428.640	2445.120	0.5	PASS
		2462	17.000	2453.560	2470.560	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.560	2439.680	0.5	PASS
		2437	35.680	2419.400	2455.080	0.5	PASS
		2452	35.520	2434.400	2469.920	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



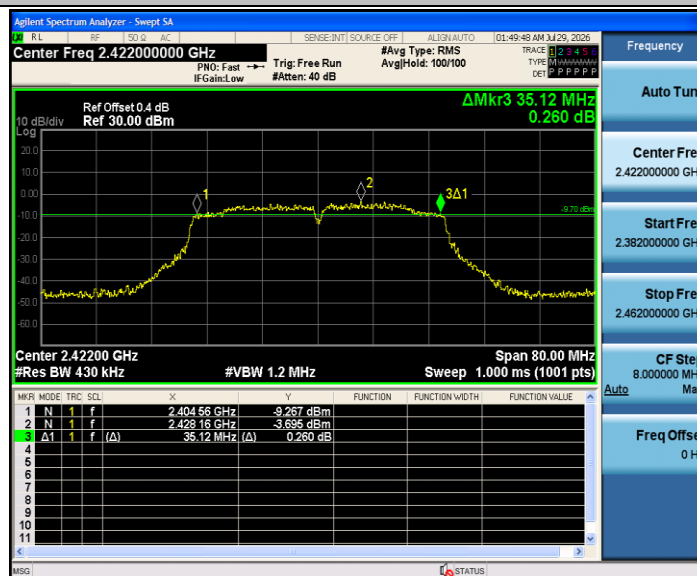
11N20SISO_Ant1_2437



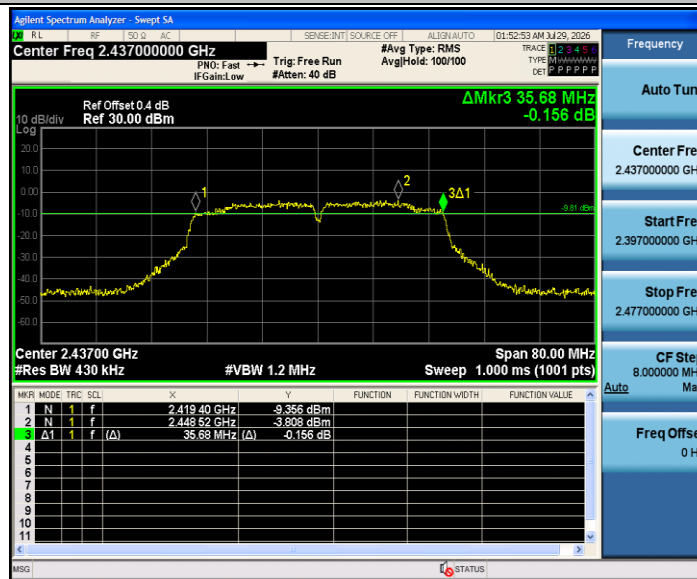
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



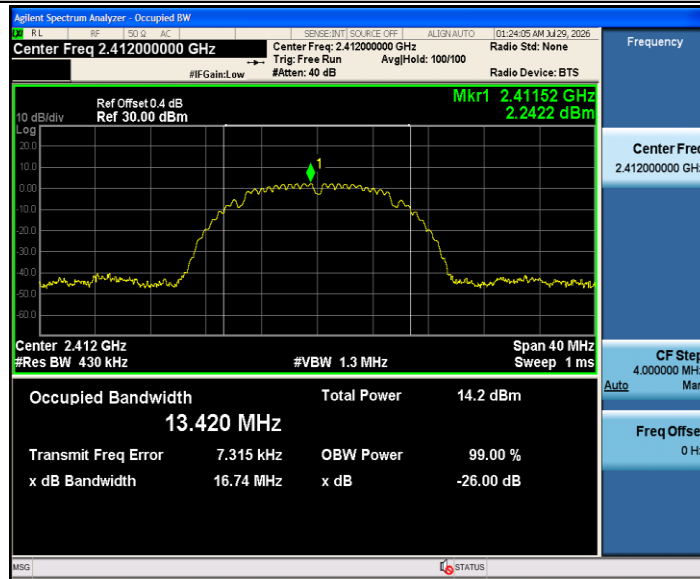
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.420	2405.2973	2418.7173	---	---
		2437	13.424	2430.3027	2443.7267	---	---
		2462	13.416	2455.3185	2468.7345	---	---
11G	Ant1	2412	16.783	2403.6409	2420.4239	---	---
		2437	16.834	2428.6414	2445.4754	---	---
		2462	16.764	2453.6955	2470.4595	---	---
11N20SISO	Ant1	2412	17.950	2403.0513	2421.0013	---	---
		2437	17.867	2428.0718	2445.9388	---	---
		2462	17.911	2453.0471	2470.9581	---	---
11N40SISO	Ant1	2422	36.049	2404.1251	2440.1741	---	---
		2437	36.000	2419.1568	2455.1568	---	---
		2452	36.071	2434.1287	2470.1997	---	---

Test Graphs

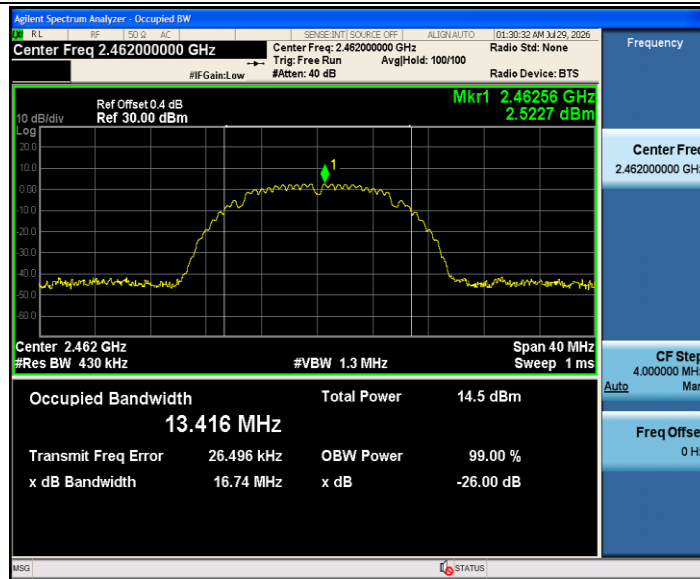
11B_Ant1_2412



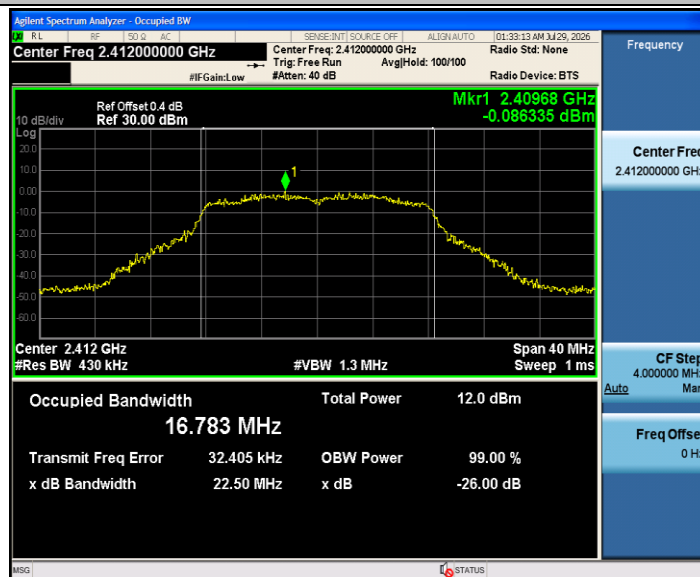
11B_Ant1_2437



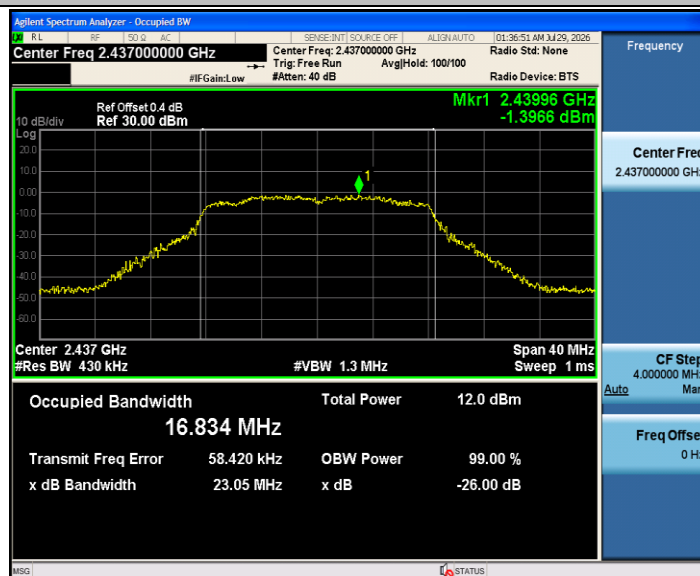
11B_Ant1_2462



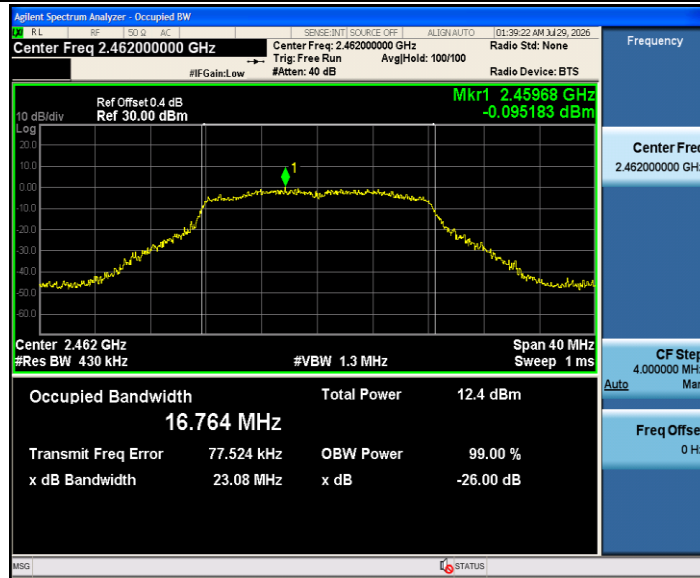
11G_Ant1_2412



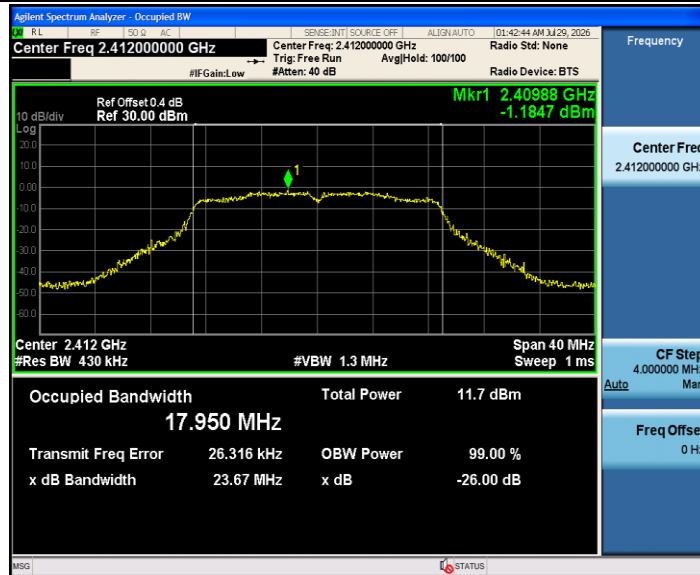
11G_Ant1_2437



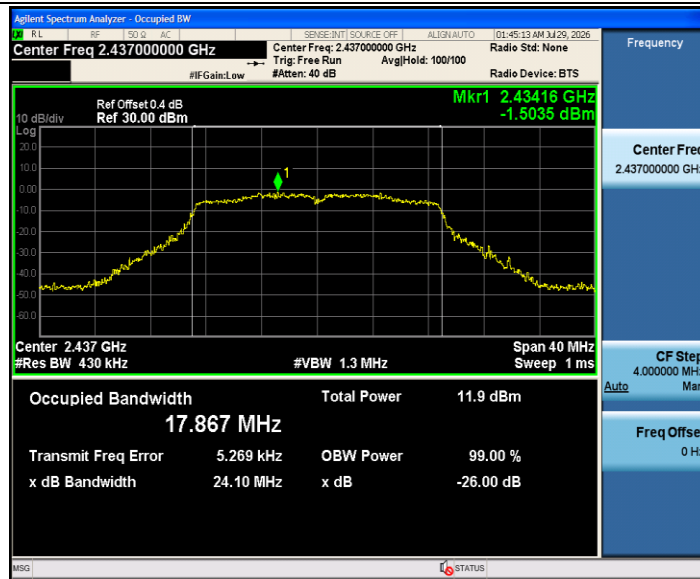
11G_Ant1_2462



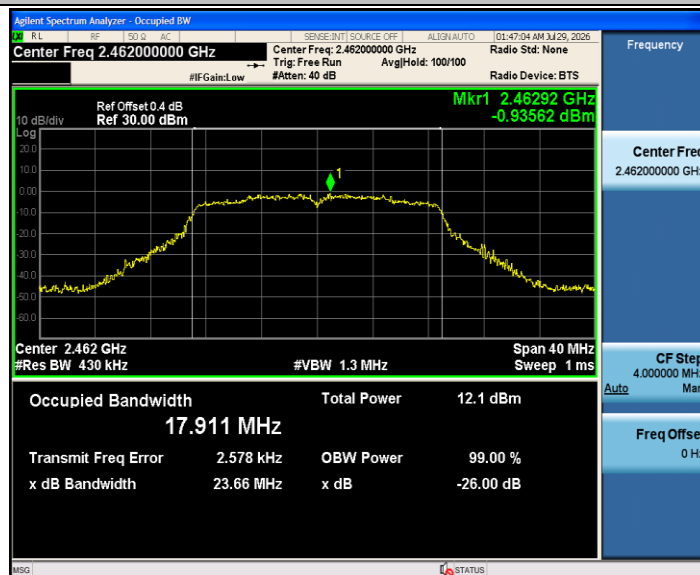
11N20SISO_Ant1_2412



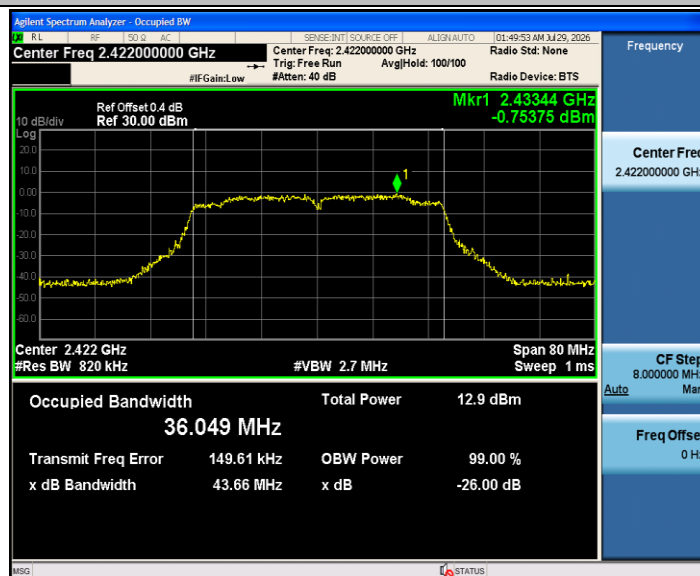
11N20SISO_Ant1_2437



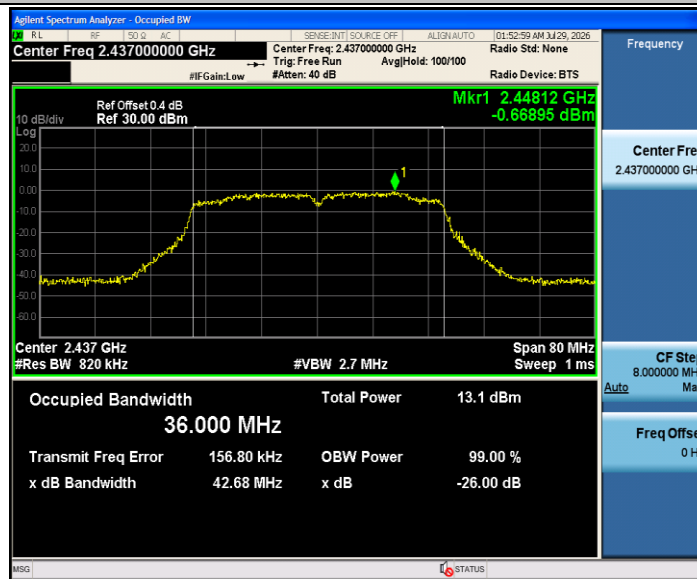
11N20SISO_Ant1_2462



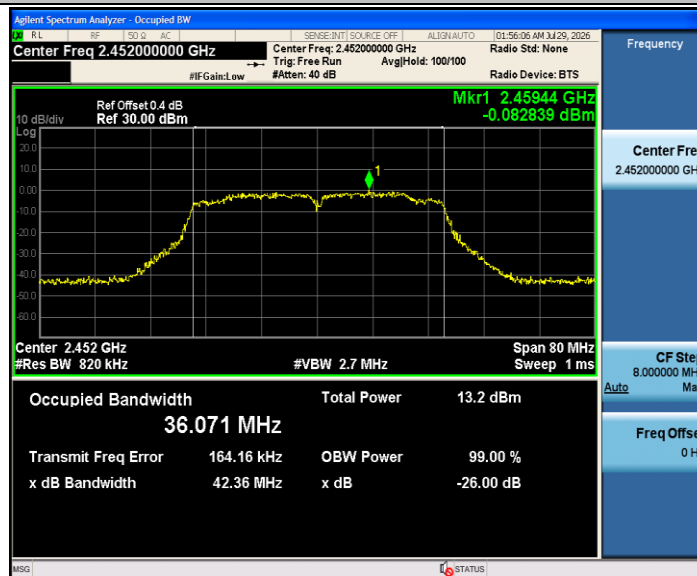
11N40SISO_Ant1_2422



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	13.86	≤30.00	PASS
		2437	13.93	≤30.00	PASS
		2462	14.09	≤30.00	PASS
11G	Ant1	2412	12.87	≤30.00	PASS
		2437	12.87	≤30.00	PASS
		2462	13.11	≤30.00	PASS
11N20SISO	Ant1	2412	12.66	≤30.00	PASS
		2437	12.79	≤30.00	PASS
		2462	13.08	≤30.00	PASS
11N40SISO	Ant1	2422	13.09	≤30.00	PASS
		2437	13.40	≤30.00	PASS
		2452	13.25	≤30.00	PASS

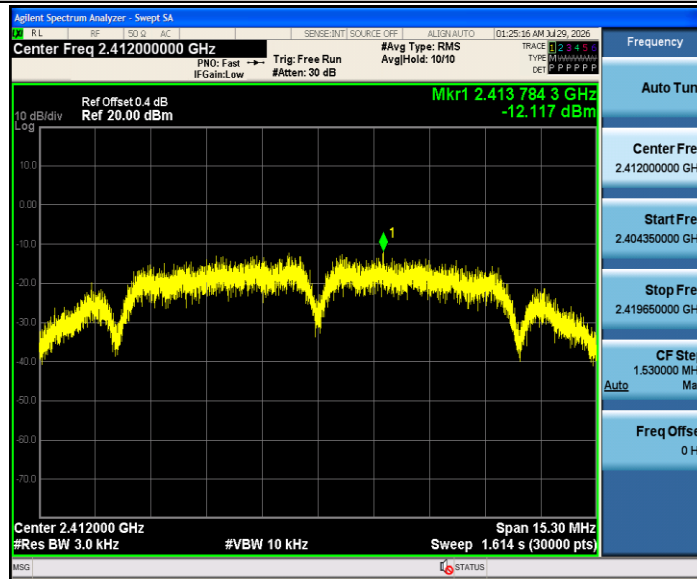
Appendix D: Maximum power spectral density

Test Result

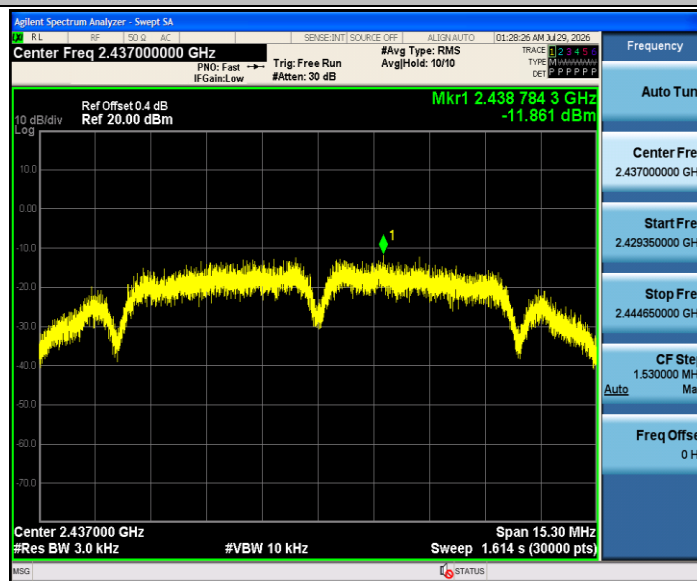
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.12	≤8.00	PASS
		2437	-11.86	≤8.00	PASS
		2462	-11.04	≤8.00	PASS
11G	Ant1	2412	-19.40	≤8.00	PASS
		2437	-18.78	≤8.00	PASS
		2462	-18.51	≤8.00	PASS
11N20SISO	Ant1	2412	-17.51	≤8.00	PASS
		2437	-18.40	≤8.00	PASS
		2462	-17.75	≤8.00	PASS
11N40SISO	Ant1	2422	-20.55	≤8.00	PASS
		2437	-21.15	≤8.00	PASS
		2452	-21.30	≤8.00	PASS

Test Graphs

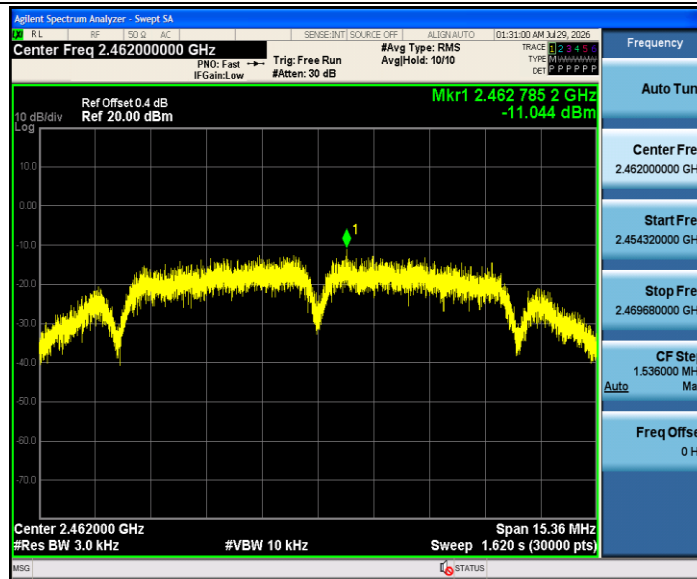
11B_Ant1_2412



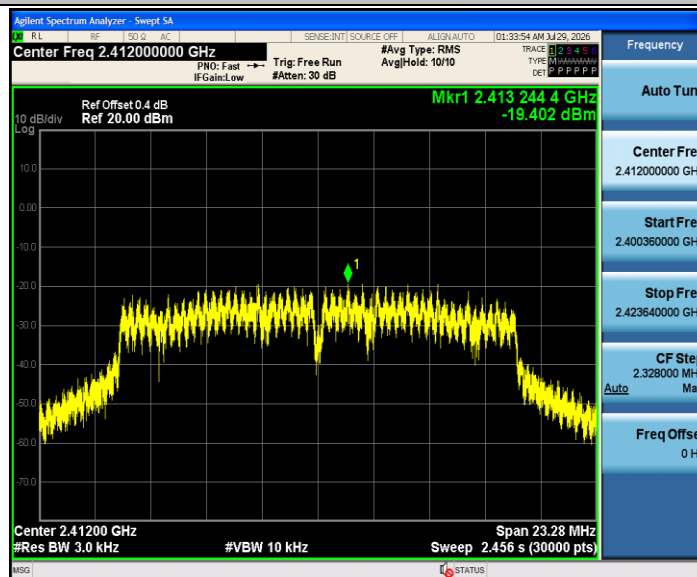
11B_Ant1_2437



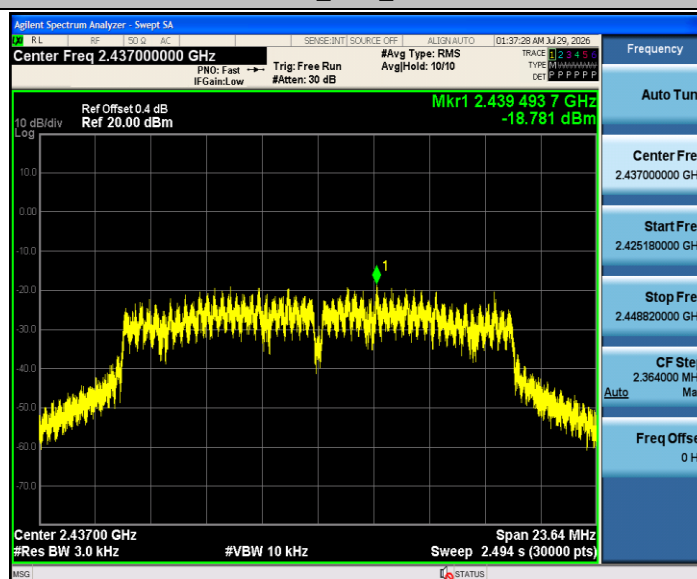
11B_Ant1_2462



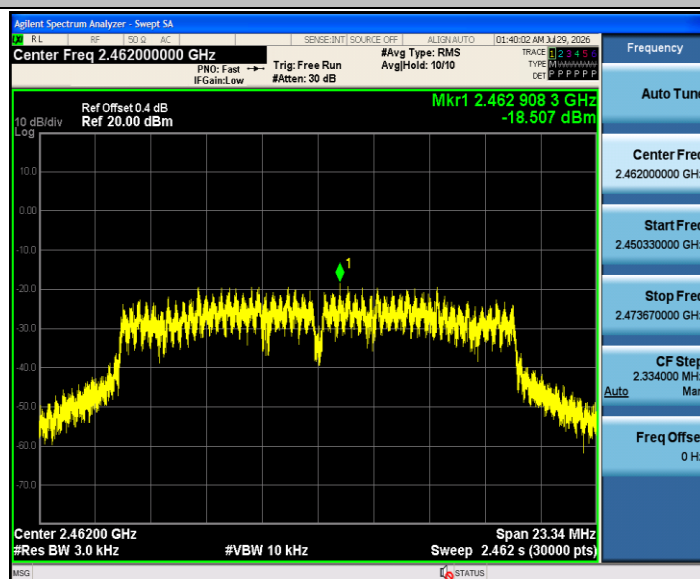
11G_Ant1_2412



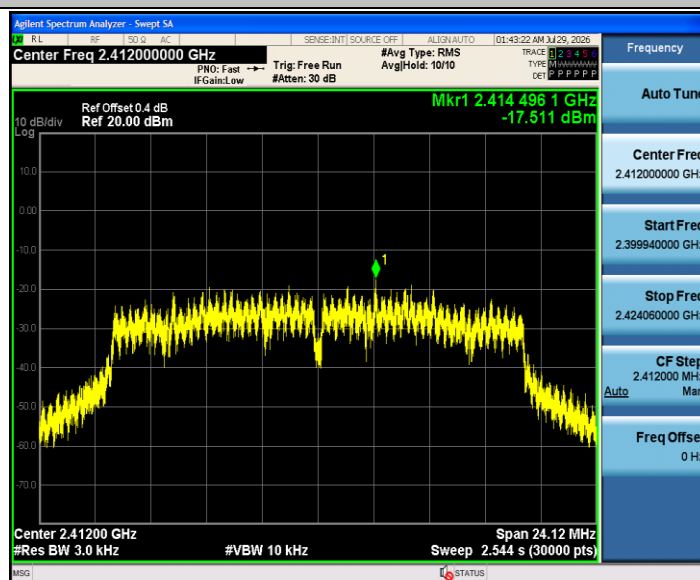
11G_Ant1_2437



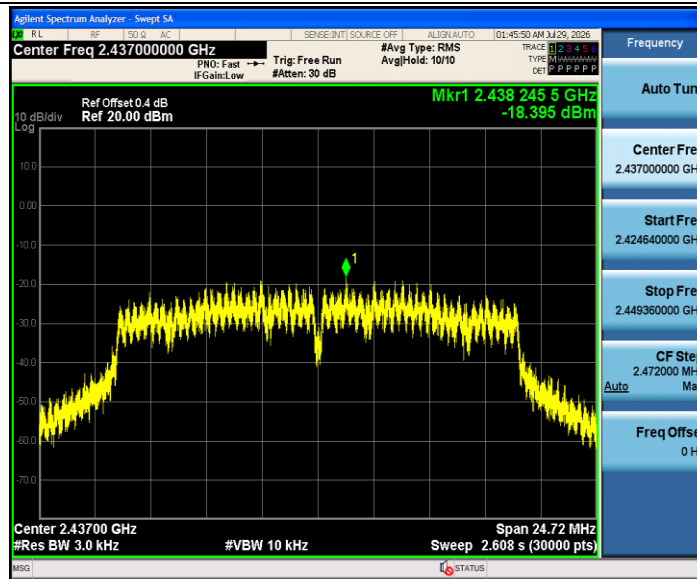
11G_Ant1_2462



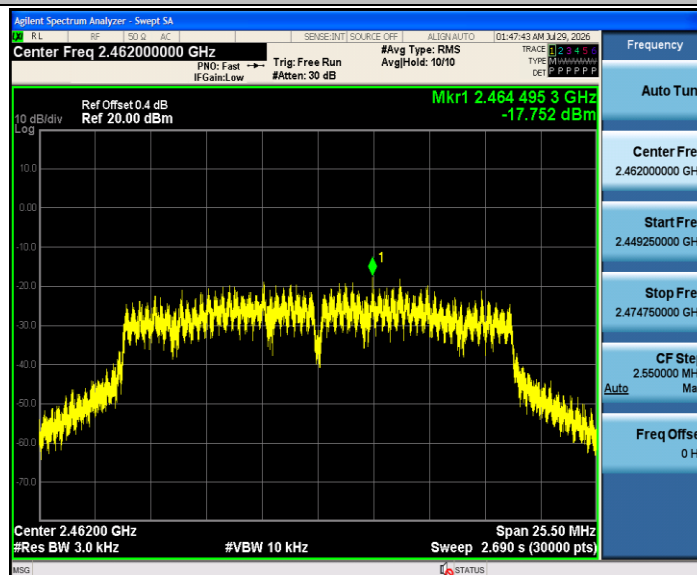
11N20SISO_Ant1_2412



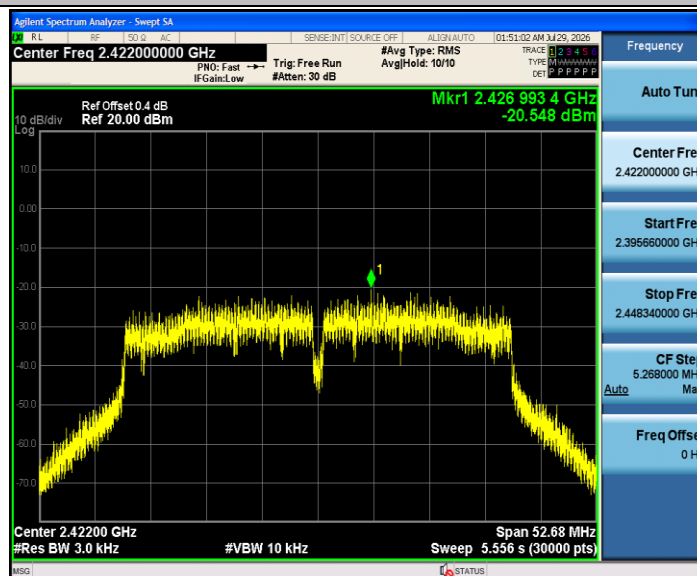
11N20SISO_Ant1_2437



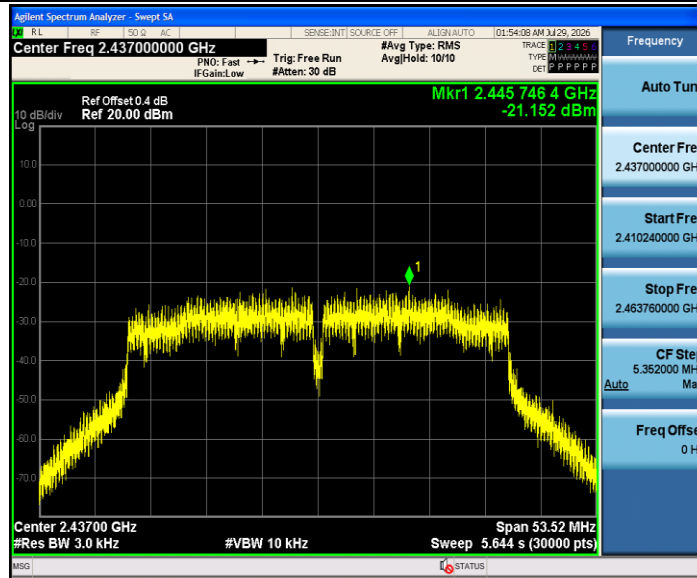
11N20SISO_Ant1_2462



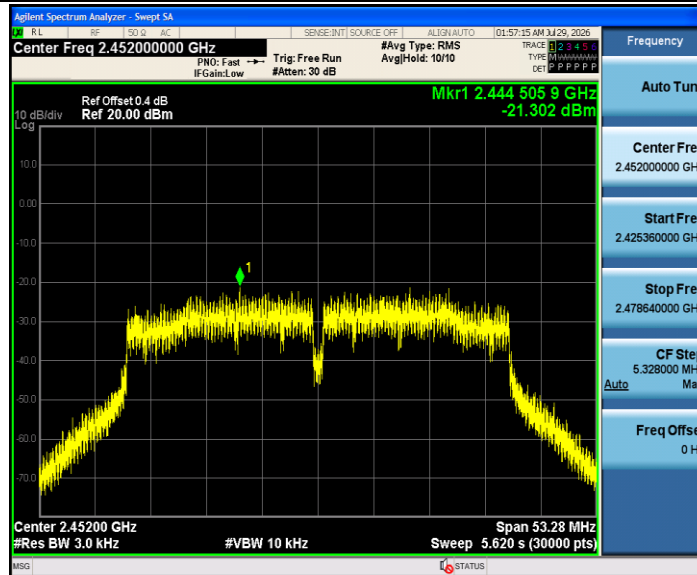
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

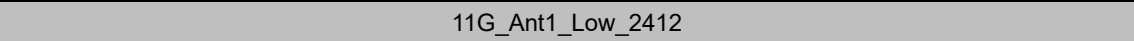
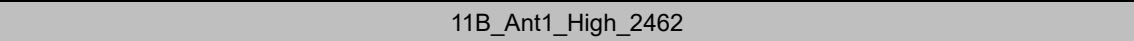


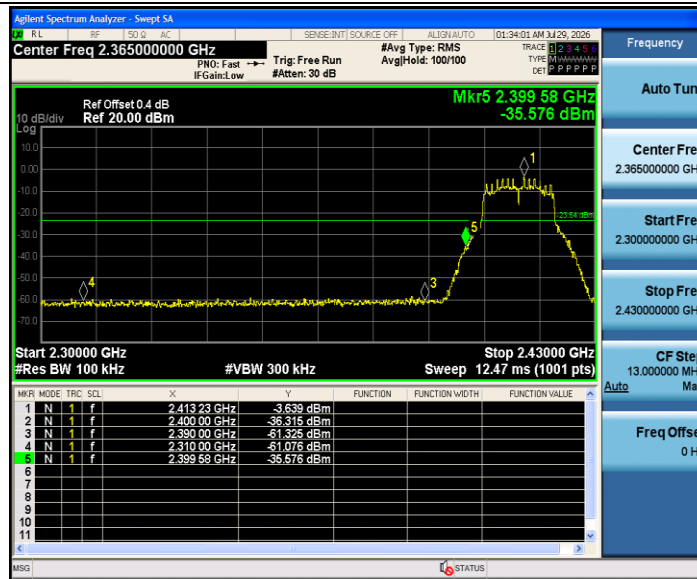
Appendix E: Band edge measurements

Test Result

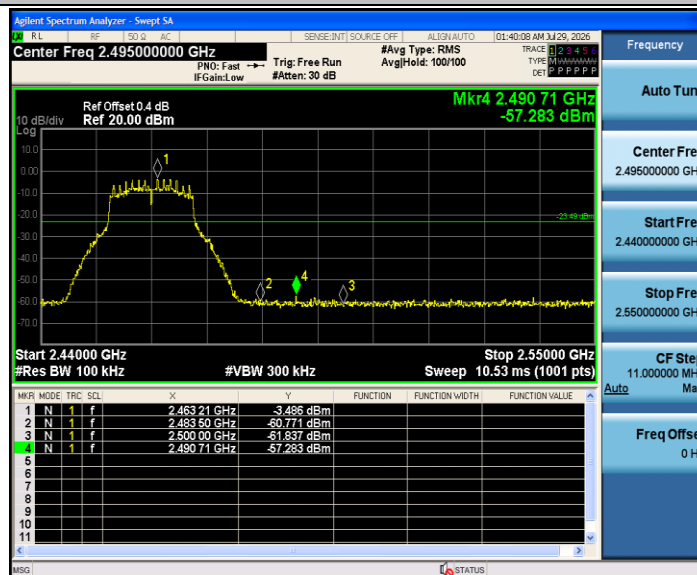
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.60	-47.36	≤-18.4	PASS
		High	2462	1.90	-51.81	≤-18.1	PASS
11G	Ant1	Low	2412	-3.64	-35.58	≤-23.64	PASS
		High	2462	-3.49	-57.28	≤-23.49	PASS
11N20SISO	Ant1	Low	2412	-3.50	-34	≤-23.5	PASS
		High	2462	-3.54	-58.39	≤-23.54	PASS
11N40SISO	Ant1	Low	2422	-6.68	-35.14	≤-26.68	PASS
		High	2452	-6.59	-57.48	≤-26.59	PASS

11B_Ant1_Low_2412

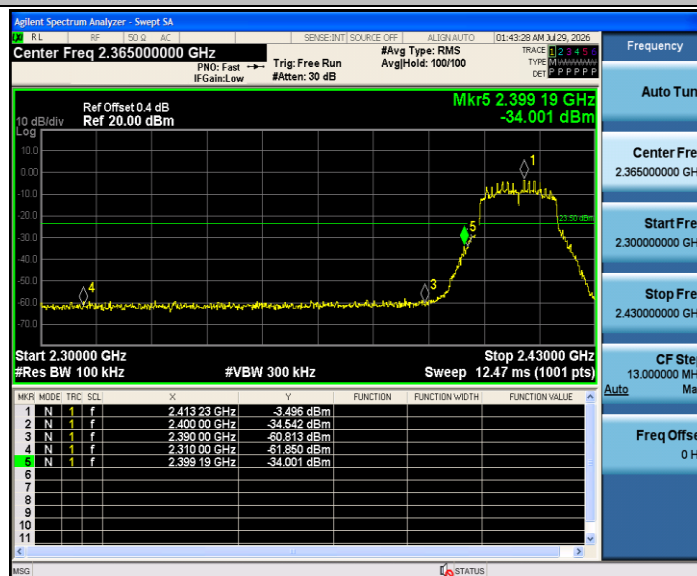




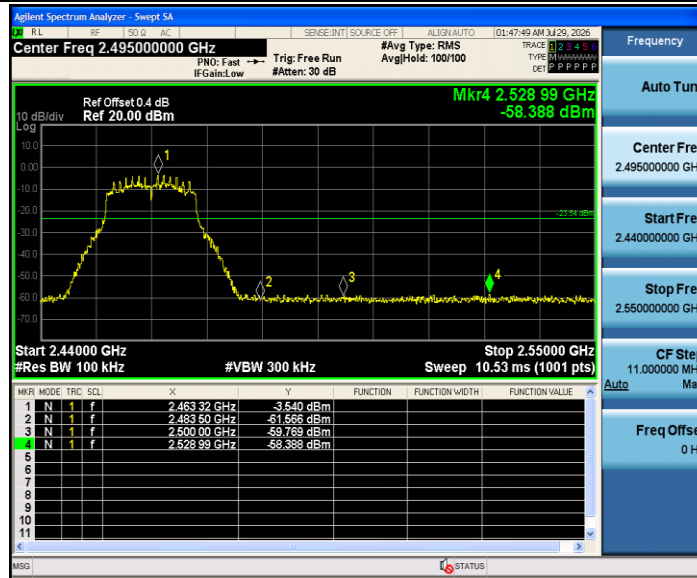
11G_Ant1_High_2462



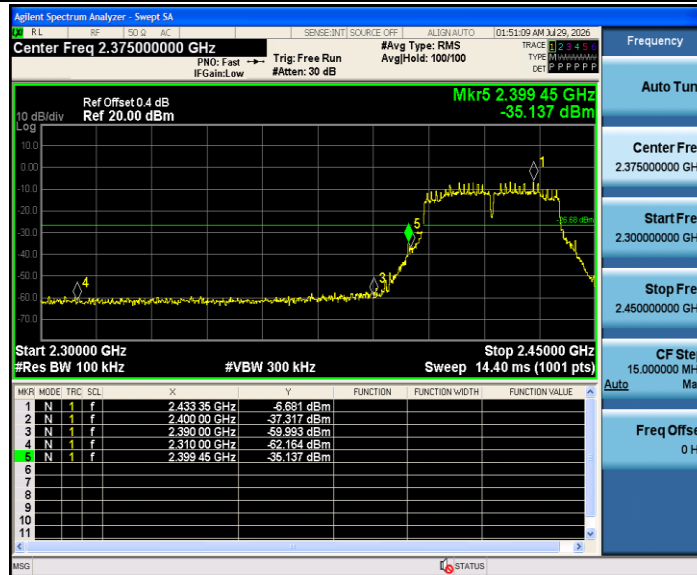
11N20SISO_Ant1_Low_2412



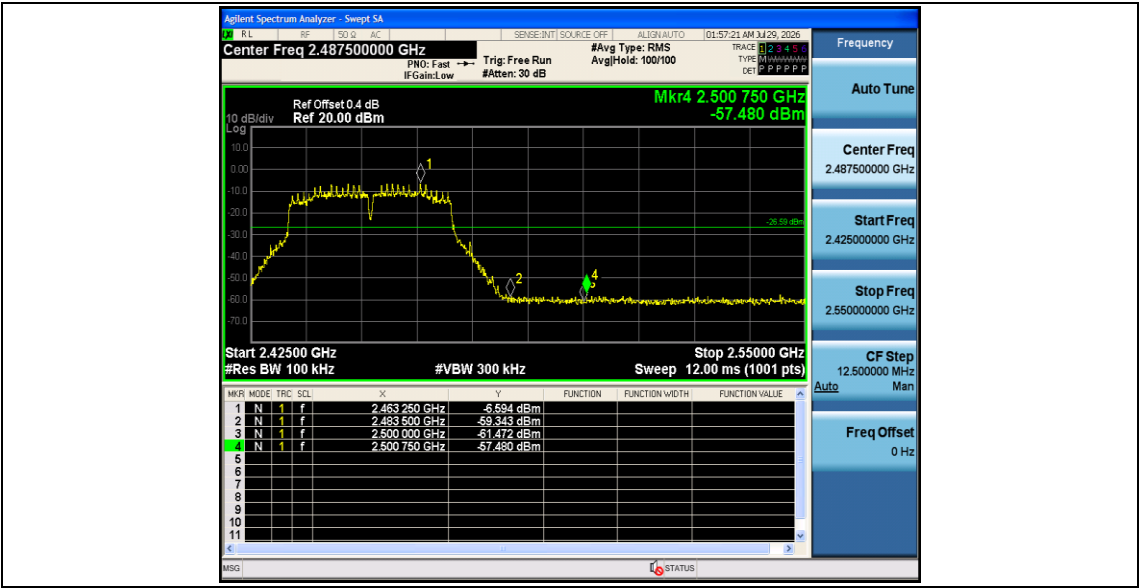
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

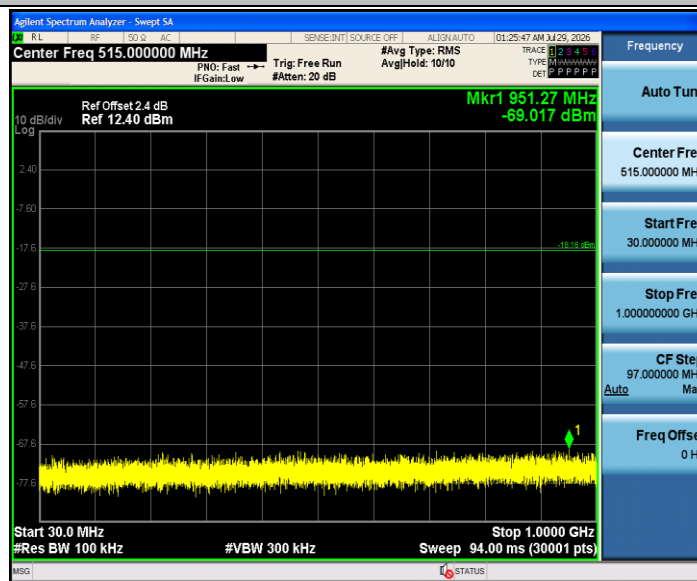
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-69.02	≤-18.16	PASS
			1000~26500	1.84	-47.61	≤-18.16	PASS
		2437	Reference	1.53	1.53	---	PASS
			30~1000	1.53	-69.18	≤-18.47	PASS
			1000~26500	1.53	-47.19	≤-18.47	PASS
		2462	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-67.69	≤-18.19	PASS
			1000~26500	1.81	-46.62	≤-18.19	PASS
11G	Ant1	2412	Reference	-6.10	-6.10	---	PASS
			30~1000	-6.10	-69.33	≤-26.1	PASS
			1000~26500	-6.10	-46.92	≤-26.1	PASS
		2437	Reference	-4.11	-4.11	---	PASS
			30~1000	-4.11	-68.4	≤-24.11	PASS
			1000~26500	-4.11	-46.82	≤-24.11	PASS
		2462	Reference	-3.65	-3.65	---	PASS
			30~1000	-3.65	-68.1	≤-23.65	PASS
			1000~26500	-3.65	-47.47	≤-23.65	PASS
11N20SISO	Ant1	2412	Reference	-4.28	-4.28	---	PASS
			30~1000	-4.28	-68.22	≤-24.28	PASS
			1000~26500	-4.28	-46.85	≤-24.28	PASS
		2437	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-69.01	≤-23.95	PASS
			1000~26500	-3.95	-46.72	≤-23.95	PASS
		2462	Reference	-4.46	-4.46	---	PASS
			30~1000	-4.46	-69.08	≤-24.46	PASS
			1000~26500	-4.46	-46.12	≤-24.46	PASS
11N40SISO	Ant1	2422	Reference	-6.85	-6.85	---	PASS
			30~1000	-6.85	-68.7	≤-26.85	PASS
			1000~26500	-6.85	-46.52	≤-26.85	PASS
		2437	Reference	-7.14	-7.14	---	PASS
			30~1000	-7.14	-69.11	≤-27.14	PASS
			1000~26500	-7.14	-46.67	≤-27.14	PASS
		2452	Reference	-7.23	-7.23	---	PASS
			30~1000	-7.23	-69.11	≤-27.23	PASS
			1000~26500	-7.23	-46.27	≤-27.23	PASS

Test Graphs

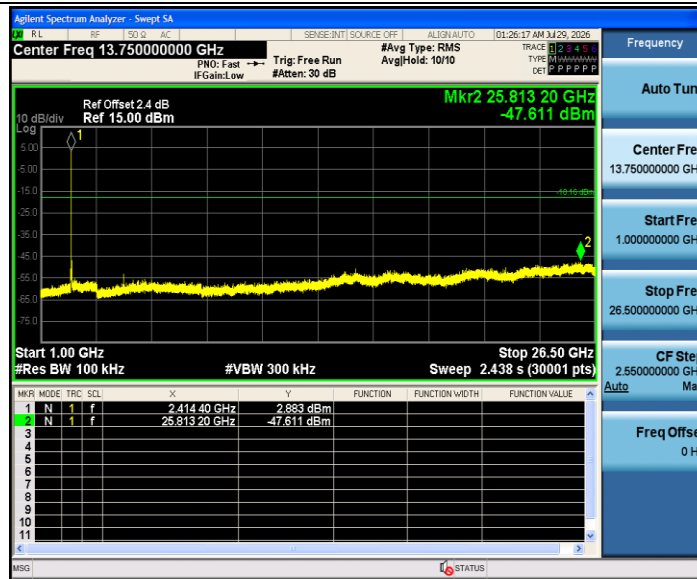
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



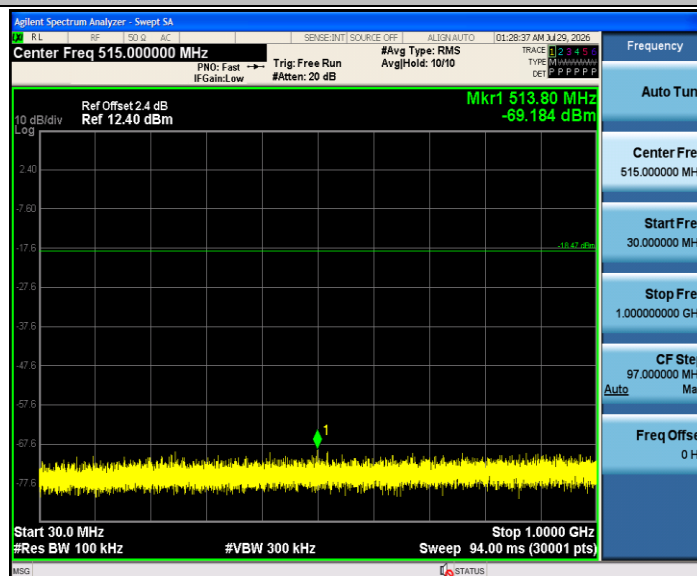
11B_Ant1_2412_1000~26500



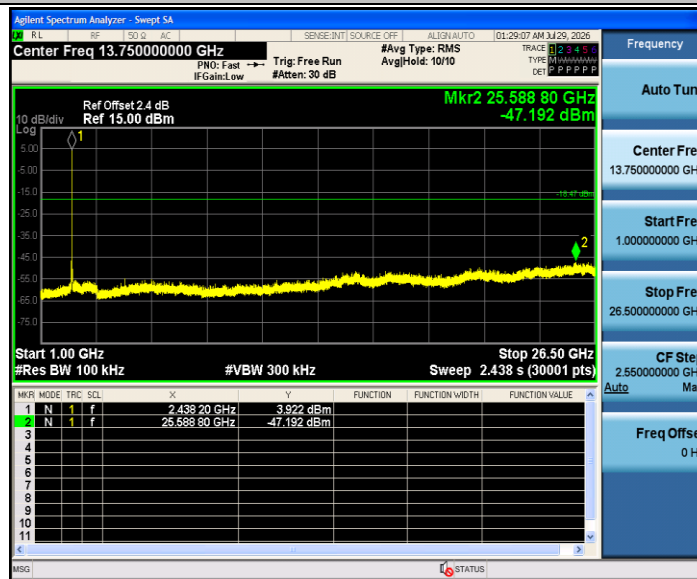
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



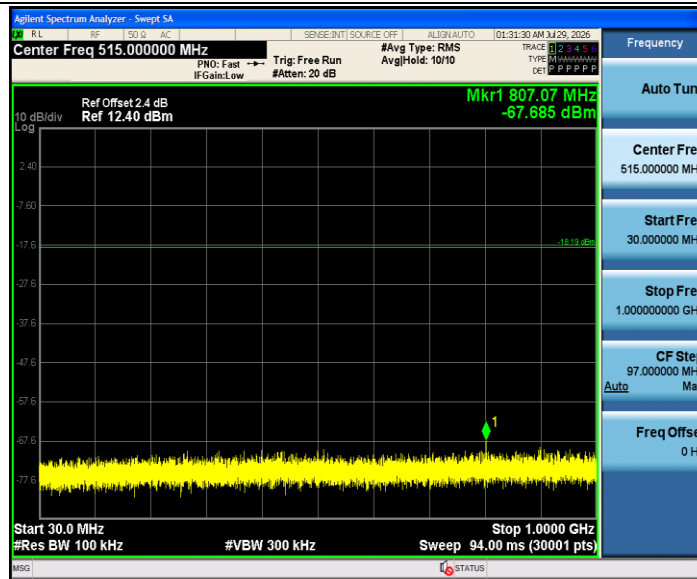
11B_Ant1_2437_1000~26500



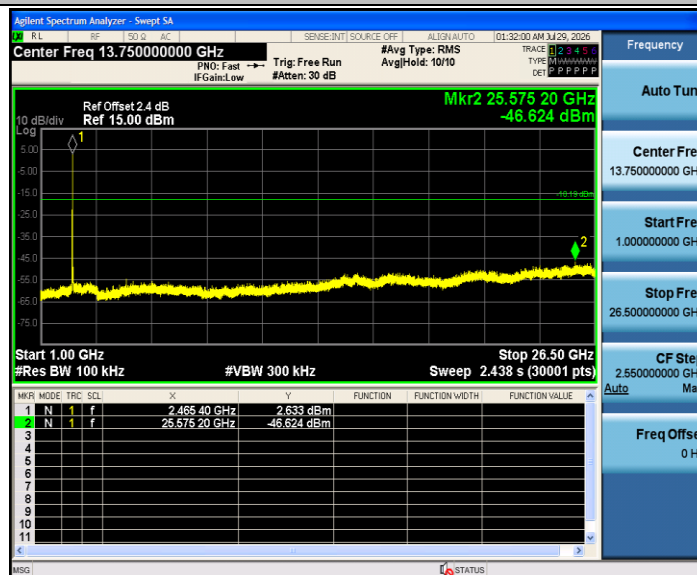
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



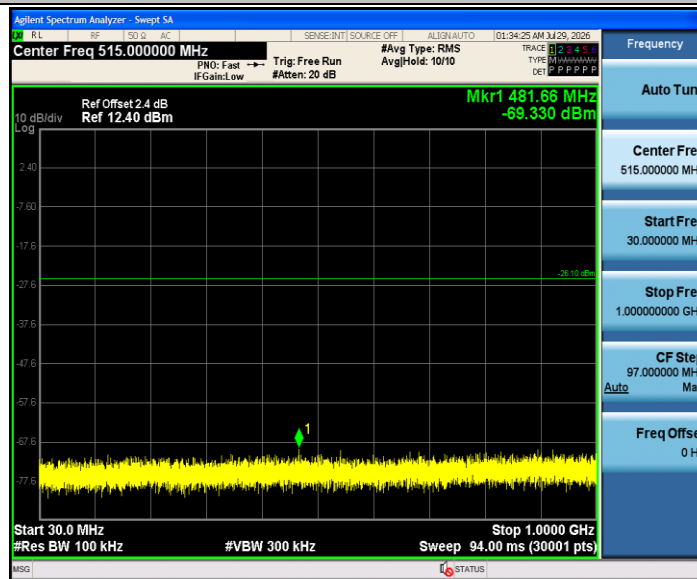
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



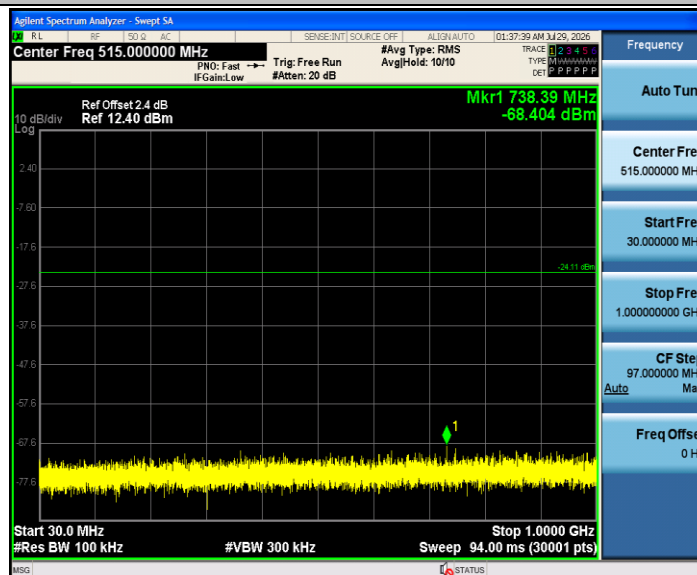
11G_Ant1_2412_1000~26500



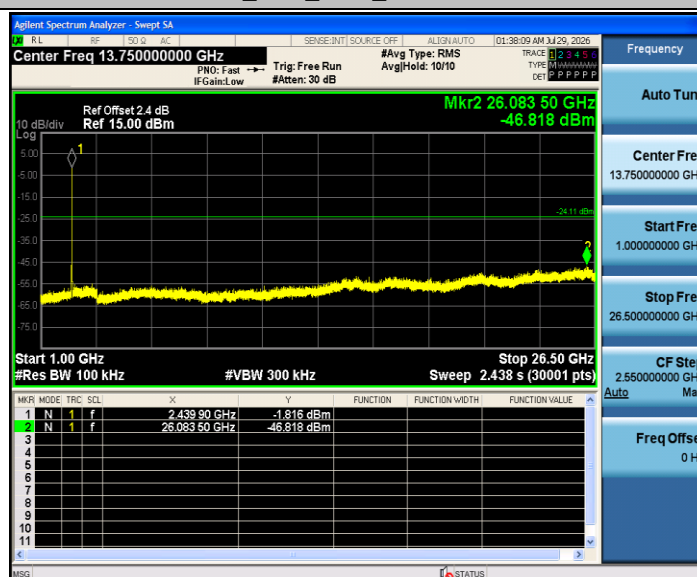
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



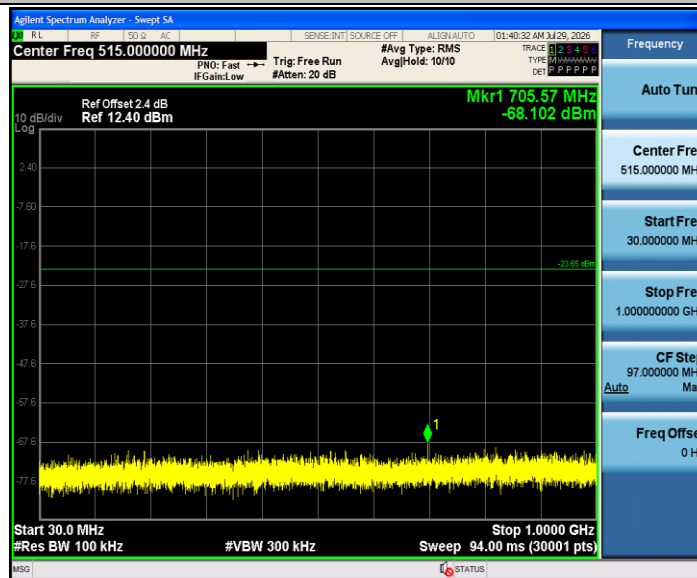
11G_Ant1_2437_1000~26500



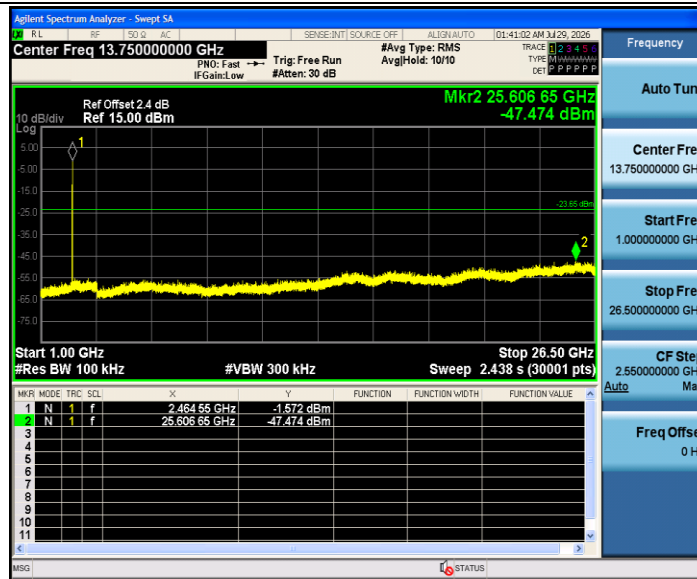
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

