

FCC Appendix RF Test Data

FCC ID : 2BPTU-P156AHBW

Company: : Thread Technology Co., Limited

EUT : Portable display

Model Number : P156AHBW

Report No. : CTA25042701201

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	9.560	2407.480	2417.040	0.5	PASS
		2437	9.520	2432.520	2442.040	0.5	PASS
		2462	9.600	2457.440	2467.040	0.5	PASS
11G	Ant1	2412	15.560	2404.040	2419.600	0.5	PASS
		2437	15.480	2429.440	2444.920	0.5	PASS
		2462	15.720	2453.840	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.920	2403.640	2419.560	0.5	PASS
		2437	16.040	2429.480	2445.520	0.5	PASS
		2462	16.200	2453.360	2469.560	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.320	2439.920	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	30.080	2434.480	2464.560	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



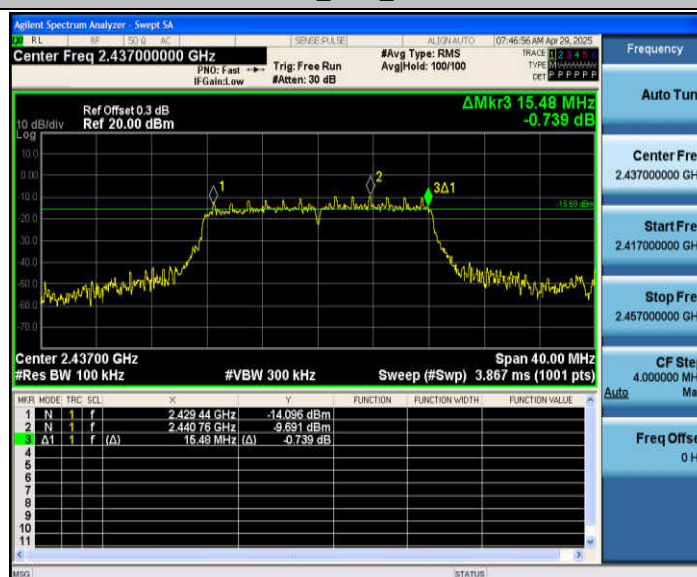
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



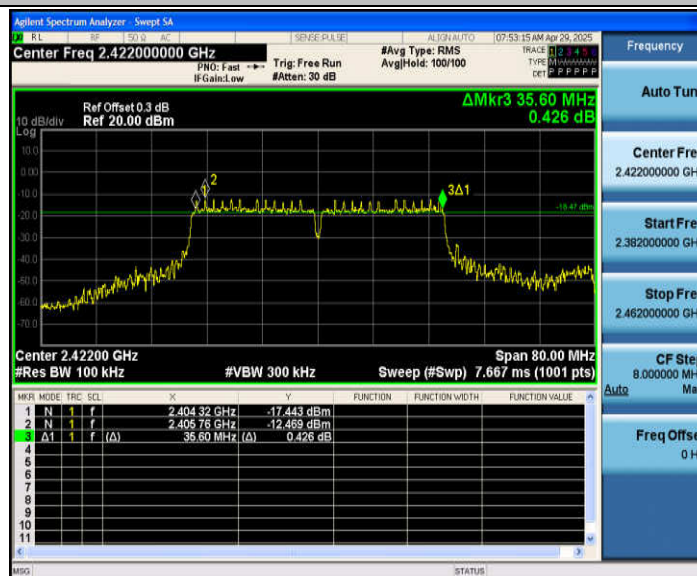
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



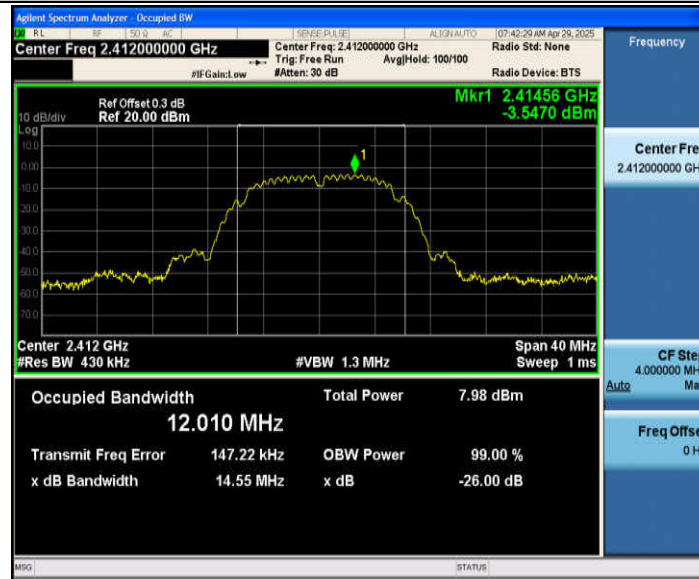
Appendix B: Occupied Channel Bandwidth

Test Result

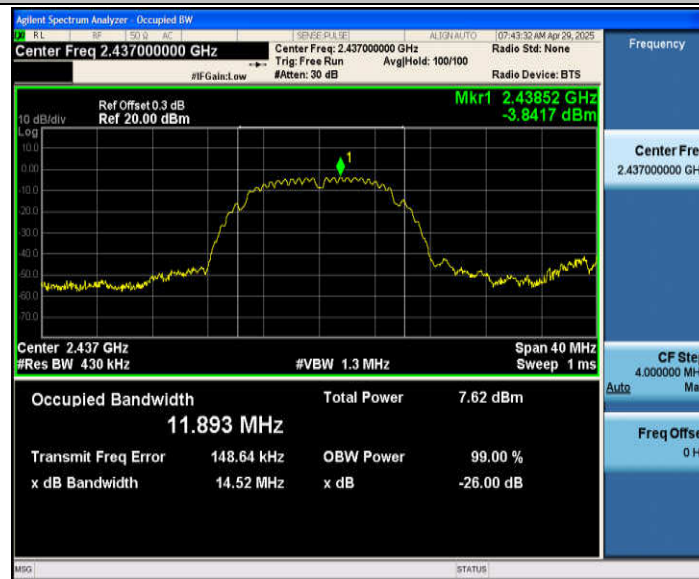
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.010	2406.1422	2418.1522	---	---
		2437	11.893	2431.2021	2443.0951	---	---
		2462	12.024	2456.0952	2468.1192	---	---
11G	Ant1	2412	16.556	2403.7282	2420.2842	---	---
		2437	16.623	2428.8160	2445.4390	---	---
		2462	16.776	2453.4516	2470.2276	---	---
11N20SISO	Ant1	2412	17.550	2403.2674	2420.8174	---	---
		2437	17.668	2428.2685	2445.9365	---	---
		2462	17.774	2452.9580	2470.7320	---	---
11N40SISO	Ant1	2422	36.483	2403.9129	2440.3959	---	---
		2437	36.068	2419.0700	2455.1380	---	---
		2452	35.862	2433.9579	2469.8199	---	---

Test Graphs

11B_Ant1_2412



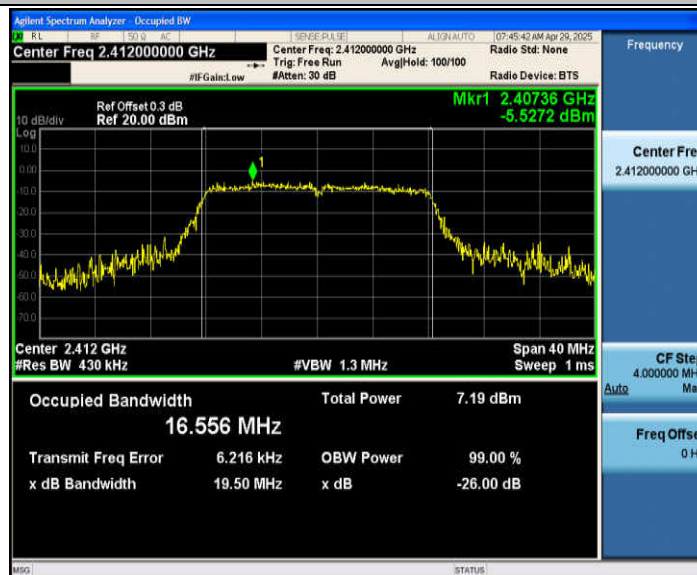
11B_Ant1_2437



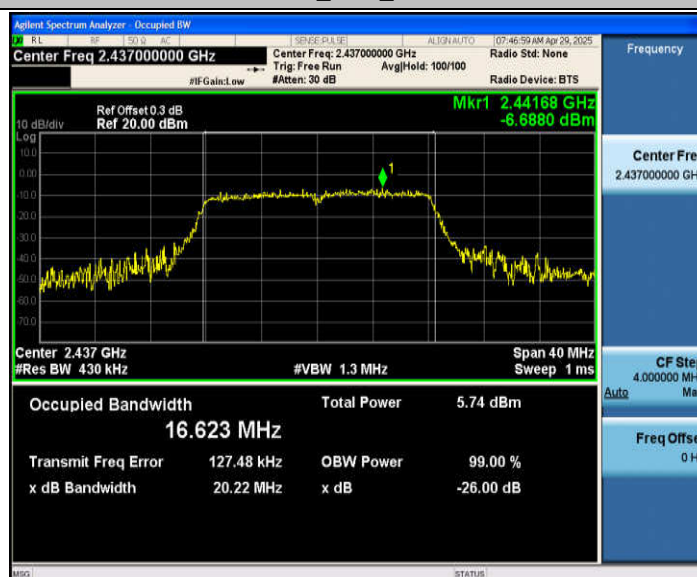
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



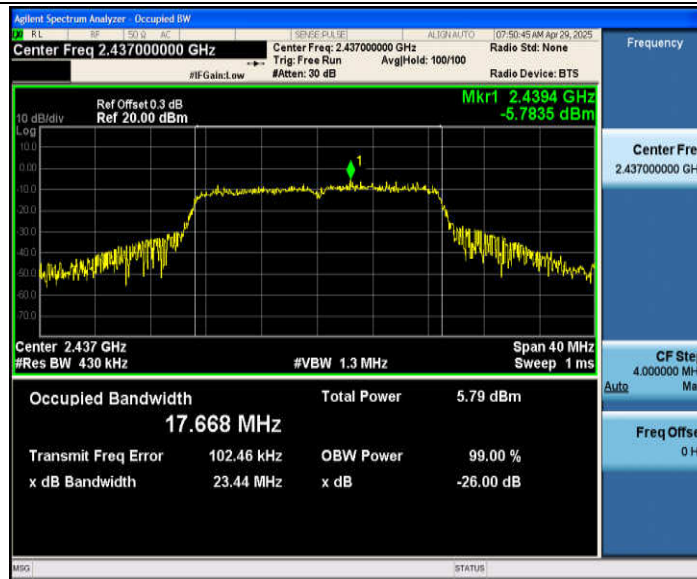
11G_Ant1_2462



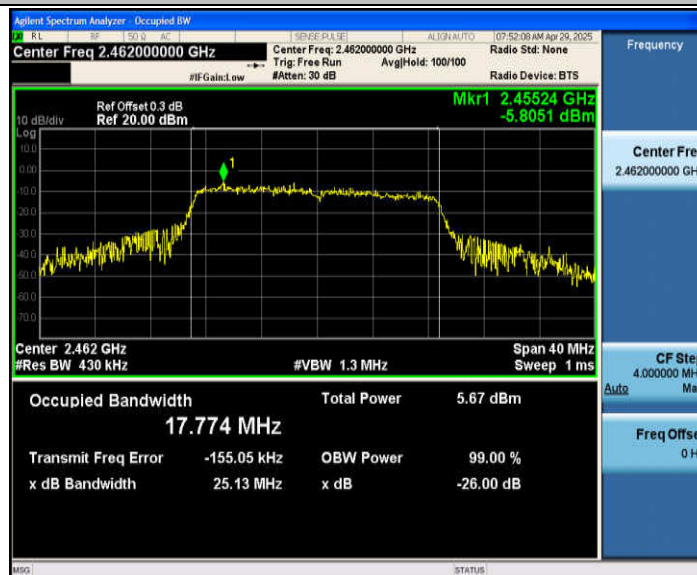
11N20SISO_Ant1_2412



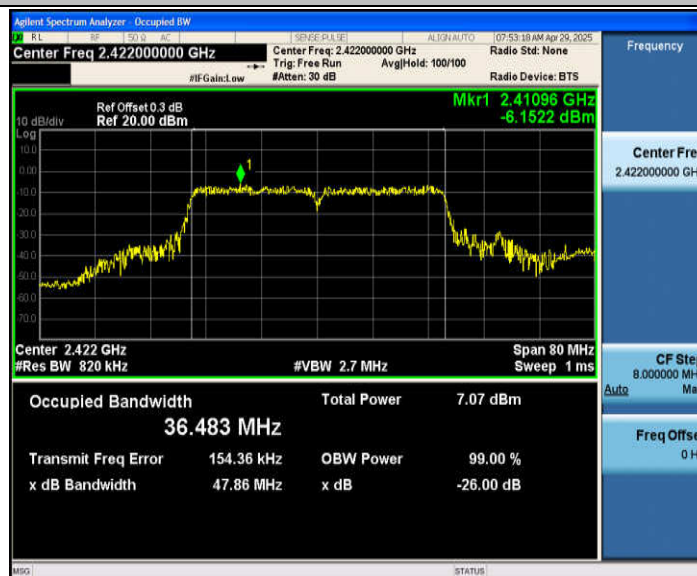
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	7.85	≤30.00	PASS
		2437	7.54	≤30.00	PASS
		2462	7.29	≤30.00	PASS
11G	Ant1	2412	7.85	≤30.00	PASS
		2437	6.38	≤30.00	PASS
		2462	6.35	≤30.00	PASS
11N20SISO	Ant1	2412	7.73	≤30.00	PASS
		2437	6.31	≤30.00	PASS
		2462	6.26	≤30.00	PASS
11N40SISO	Ant1	2422	7.20	≤30.00	PASS
		2437	6.87	≤30.00	PASS
		2452	6.69	≤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	-17.98	≤8.00	PASS
		2437	-17.53	≤8.00	PASS
		2462	-18.29	≤8.00	PASS
11G	Ant1	2412	-24.01	≤8.00	PASS
		2437	-25.34	≤8.00	PASS
		2462	-25.98	≤8.00	PASS
11N20SISO	Ant1	2412	-24.88	≤8.00	PASS
		2437	-25.34	≤8.00	PASS
		2462	-24.52	≤8.00	PASS
11N40SISO	Ant1	2422	-27.58	≤8.00	PASS
		2437	-28.03	≤8.00	PASS
		2452	-26.62	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



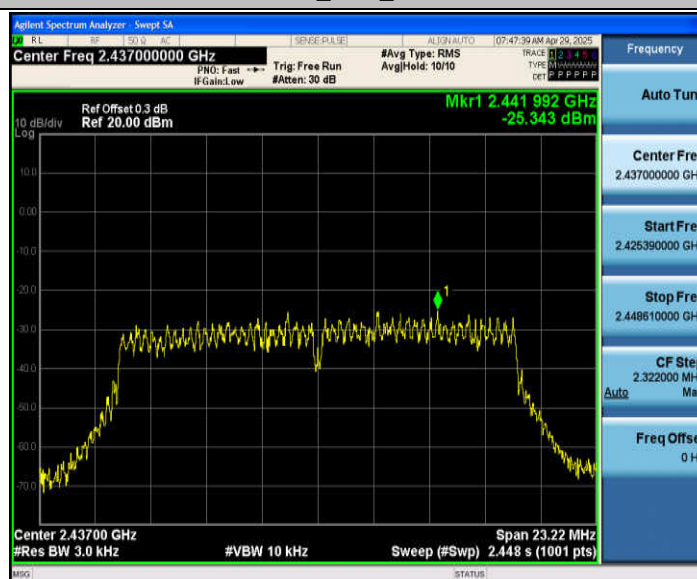
11B_Ant1_2462



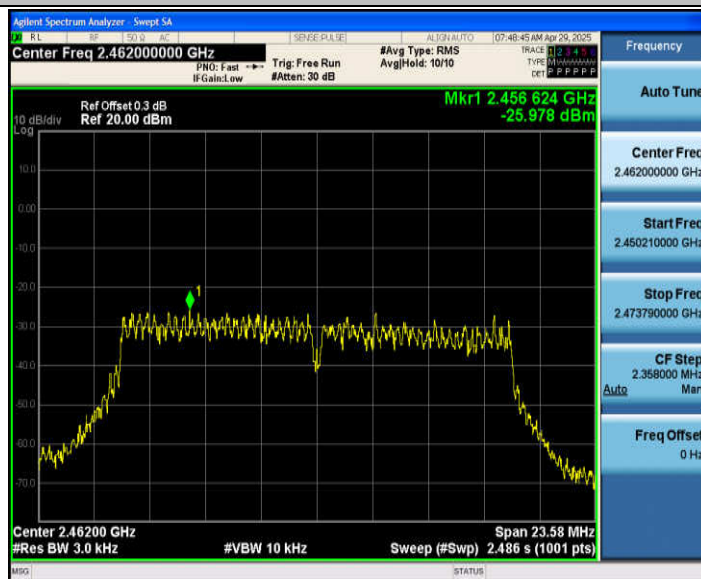
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



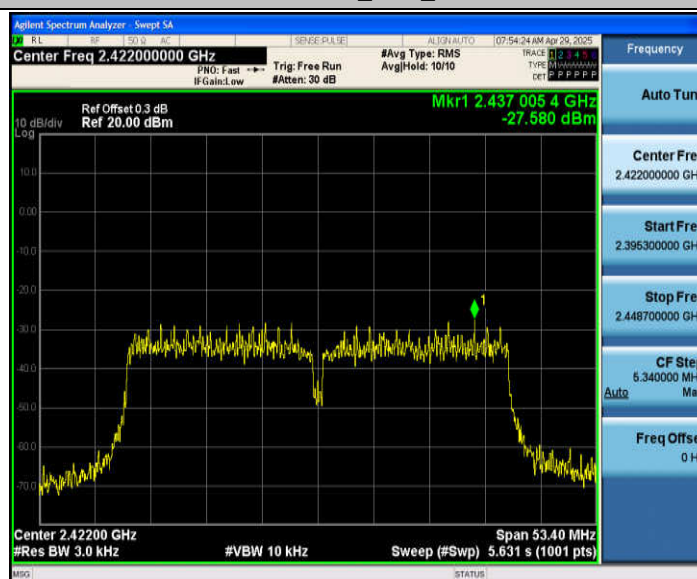
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



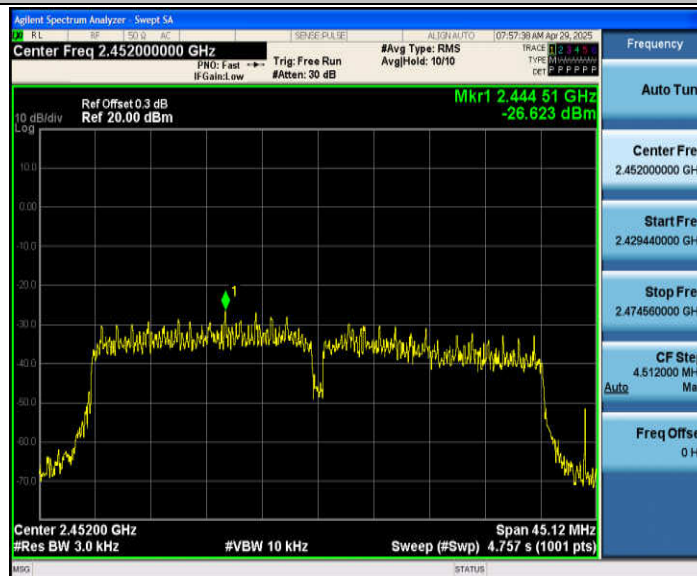
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



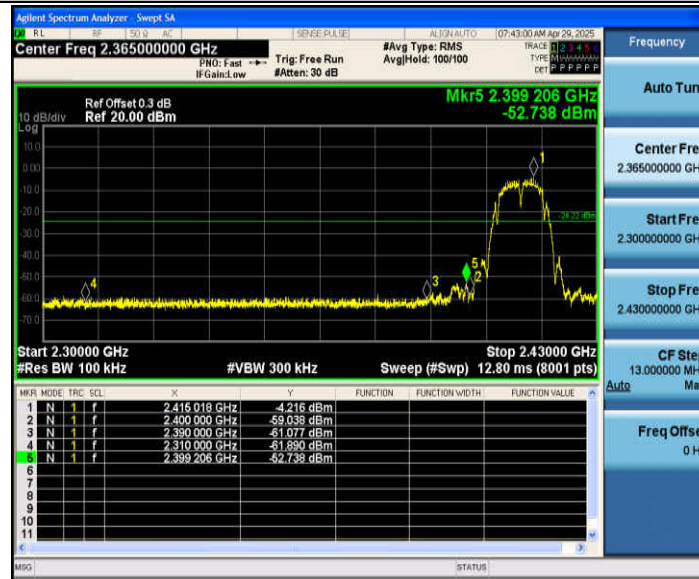
Appendix E: Band edge measurements

Test Result

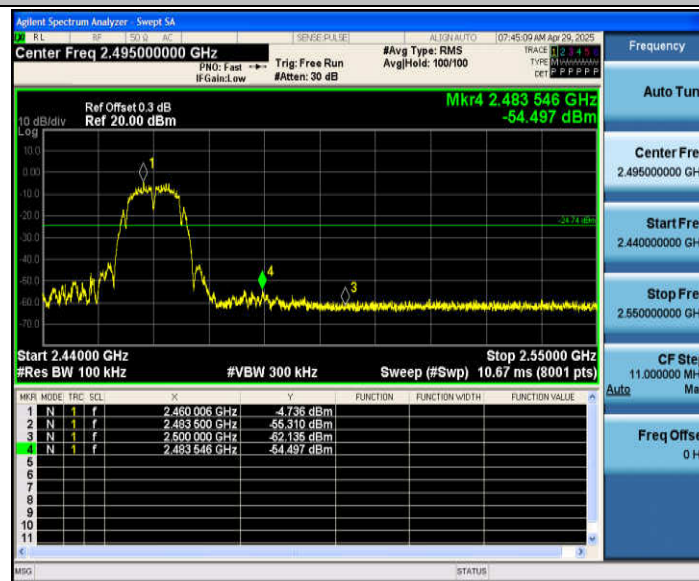
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.22	-52.74	≤-24.22	PASS
		High	2462	-4.74	-54.5	≤-24.74	PASS
11G	Ant1	Low	2412	-8.75	-45.65	≤-28.75	PASS
		High	2462	-9.26	-53.14	≤-29.26	PASS
11N20SISO	Ant1	Low	2412	-8.83	-41.08	≤-28.83	PASS
		High	2462	-9.10	-54.67	≤-29.1	PASS
11N40SISO	Ant1	Low	2422	-12.41	-43.32	≤-32.41	PASS
		High	2452	-10.90	-48.15	≤-30.9	PASS

Test Graphs

11B_Ant1_Low_2412



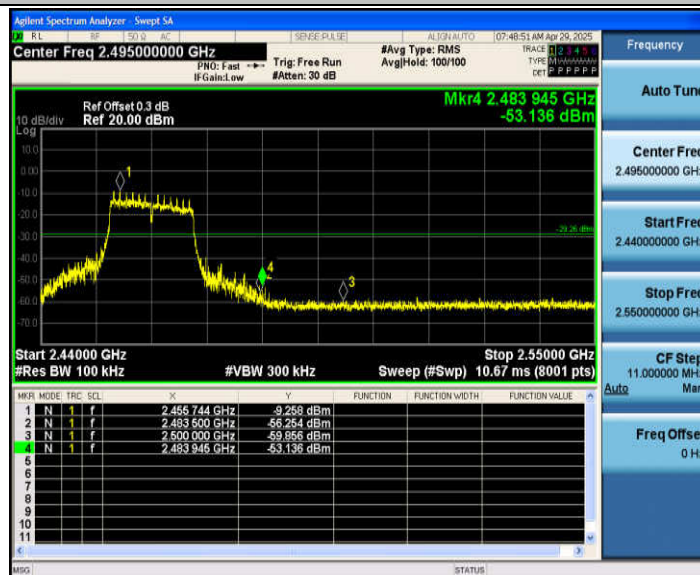
11B_Ant1_High_2462



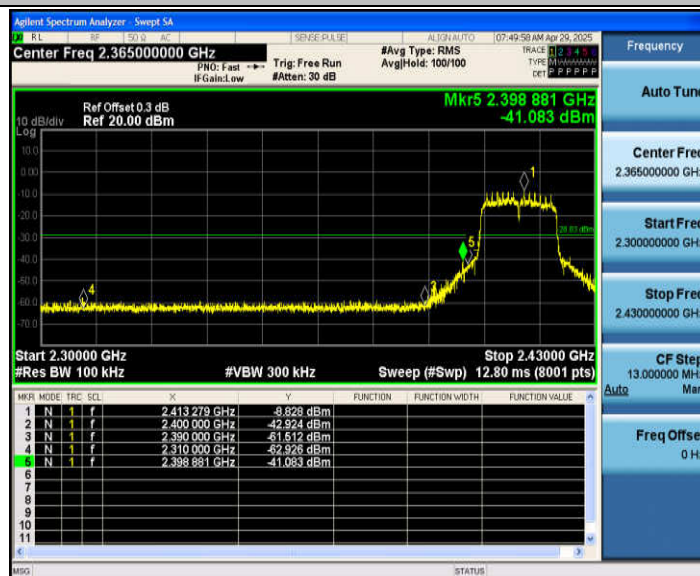
11G_Ant1_Low_2412



11G_Ant1_High_2462



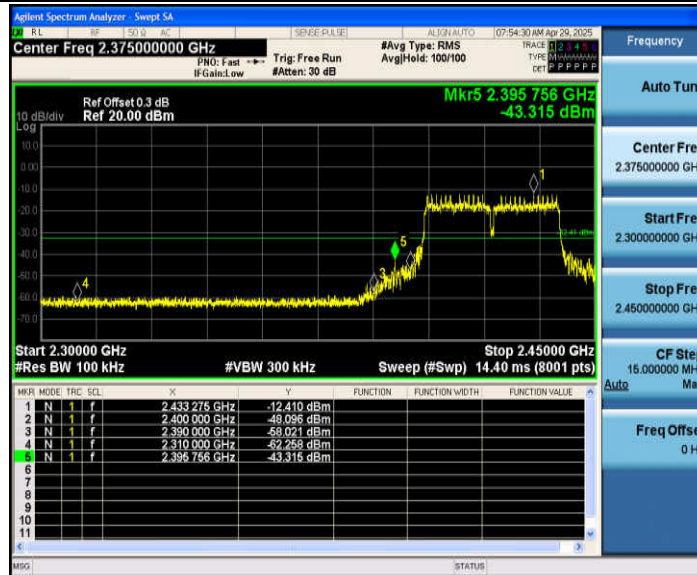
11N20SISO_Ant1_Low_2412



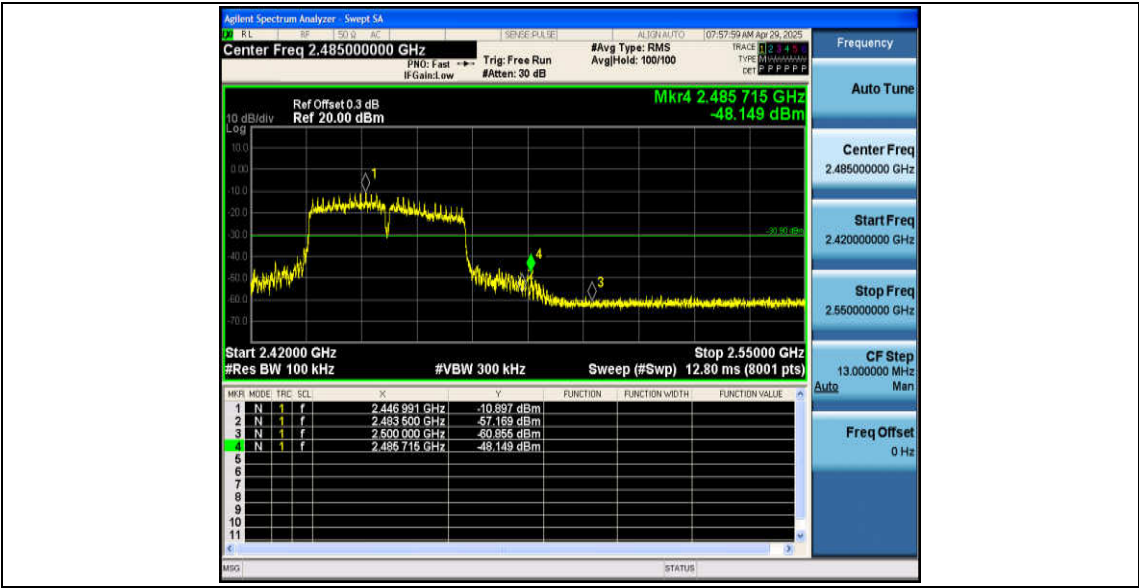
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

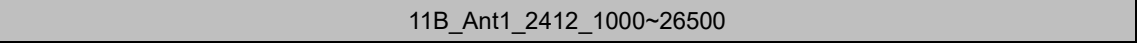
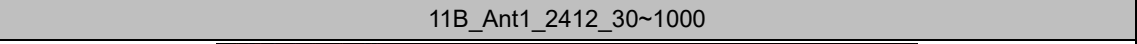


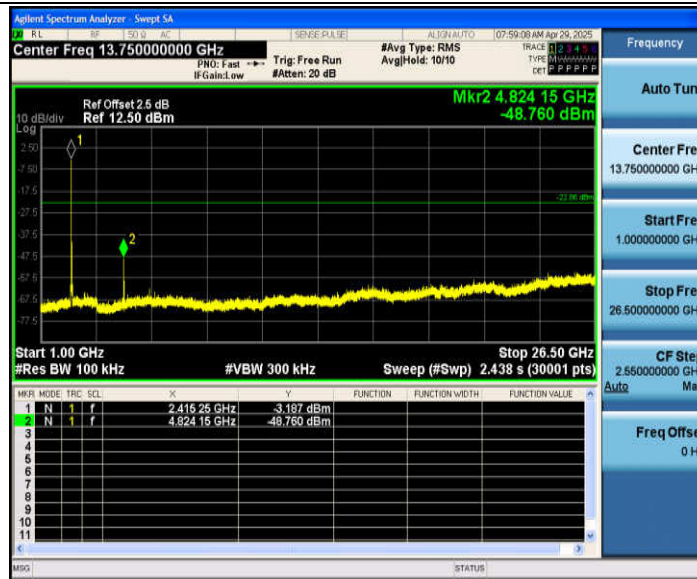
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-2.86	-2.86	---	PASS
			30~1000	-2.86	-67.83	≤-22.86	PASS
			1000~26500	-2.86	-48.76	≤-22.86	PASS
		2437	Reference	-3.01	-3.01	---	PASS
			30~1000	-3.01	-51.94	≤-23.01	PASS
			1000~26500	-3.01	-47.17	≤-23.01	PASS
		2462	Reference	-4.11	-4.11	---	PASS
			30~1000	-4.11	-67.72	≤-24.11	PASS
			1000~26500	-4.11	-42.58	≤-24.11	PASS
11G	Ant1	2412	Reference	-7.35	-7.35	---	PASS
			30~1000	-7.35	-67.94	≤-27.35	PASS
			1000~26500	-7.35	-36.07	≤-27.35	PASS
		2437	Reference	-7.55	-7.55	---	PASS
			30~1000	-7.55	-67.78	≤-27.55	PASS
			1000~26500	-7.55	-53.15	≤-27.55	PASS
		2462	Reference	-7.50	-7.50	---	PASS
			30~1000	-7.50	-67.72	≤-27.5	PASS
			1000~26500	-7.50	-50.51	≤-27.5	PASS
11N20SISO	Ant1	2412	Reference	-6.58	-6.58	---	PASS
			30~1000	-6.58	-67.86	≤-26.58	PASS
			1000~26500	-6.58	-53.23	≤-26.58	PASS
		2437	Reference	-7.37	-7.37	---	PASS
			30~1000	-7.37	-67.75	≤-27.37	PASS
			1000~26500	-7.37	-54.68	≤-27.37	PASS
		2462	Reference	-8.35	-8.35	---	PASS
			30~1000	-8.35	-67.45	≤-28.35	PASS
			1000~26500	-8.35	-51.67	≤-28.35	PASS
11N40SISO	Ant1	2422	Reference	-10.17	-10.17	---	PASS
			30~1000	-10.17	-68.04	≤-30.17	PASS
			1000~26500	-10.17	-52.14	≤-30.17	PASS
		2437	Reference	-9.72	-9.72	---	PASS
			30~1000	-9.72	-67.23	≤-29.72	PASS
			1000~26500	-9.72	-53.81	≤-29.72	PASS
		2452	Reference	-8.60	-8.60	---	PASS
			30~1000	-8.60	-67.95	≤-28.6	PASS
			1000~26500	-8.60	-54.43	≤-28.6	PASS

11B_Ant1_2412_0~Reference

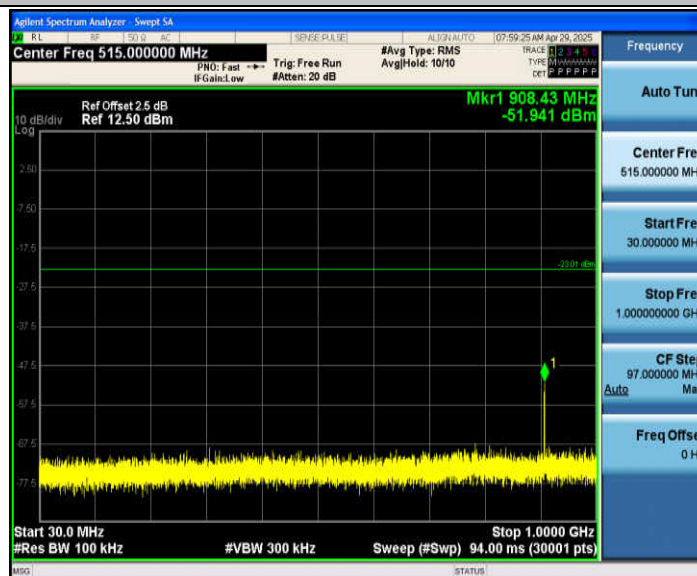




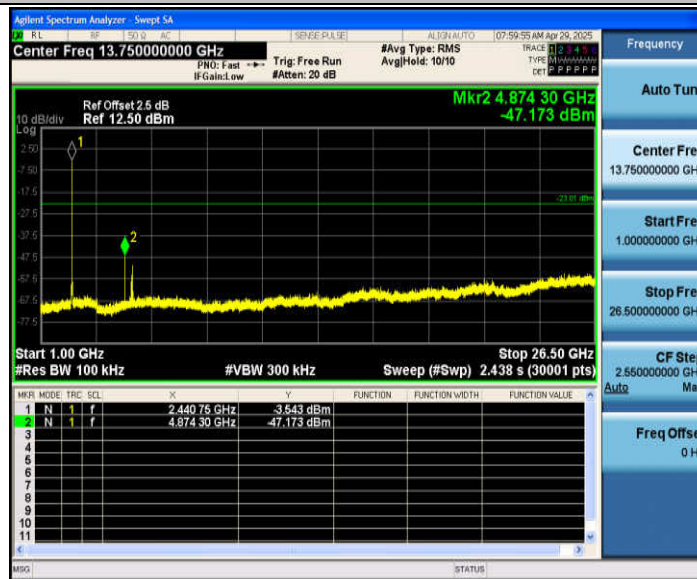
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



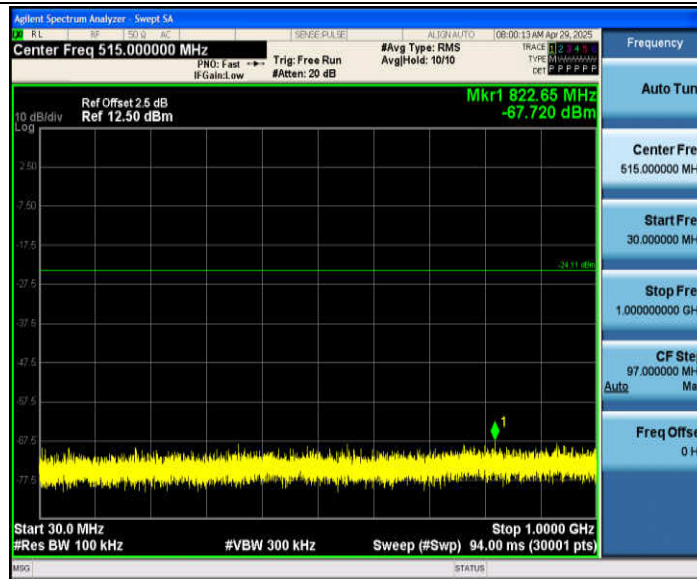
11B_Ant1_2437_1000~26500



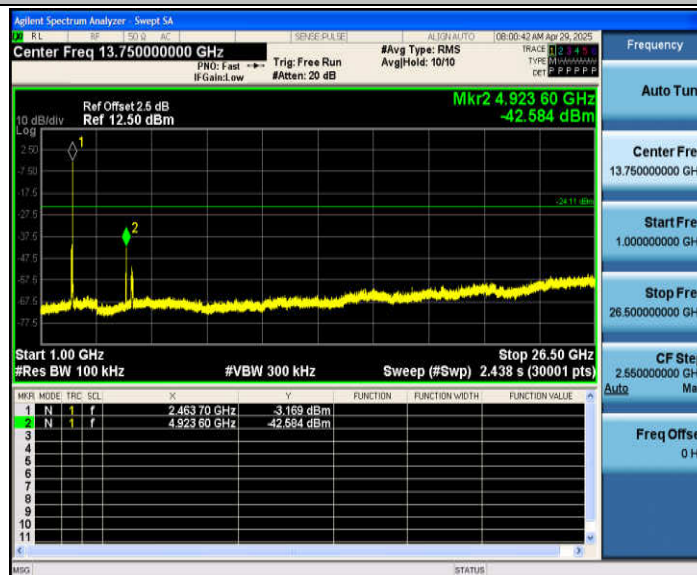
11B_Ant1_2462_0~Reference



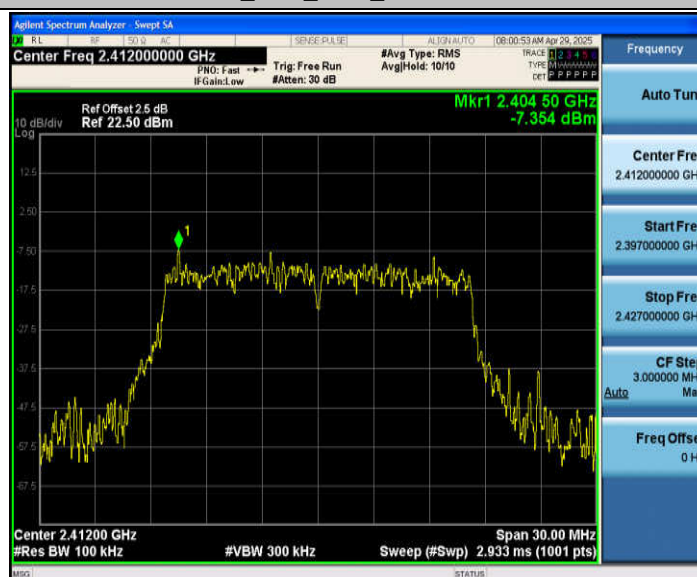
11B_Ant1_2462_30~1000



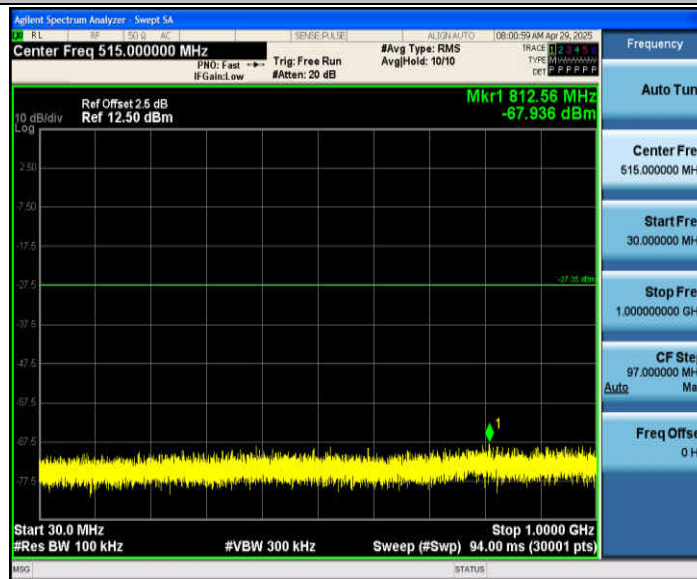
11B_Ant1_2462_1000~26500



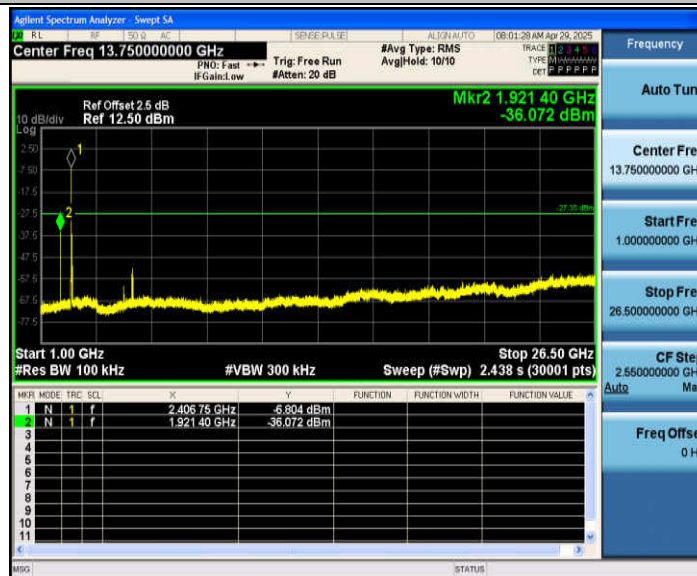
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



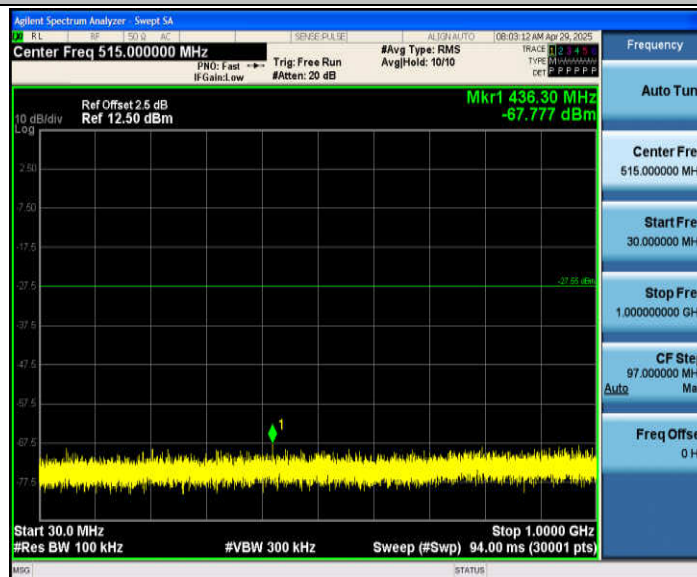
11G_Ant1_2412_1000~26500



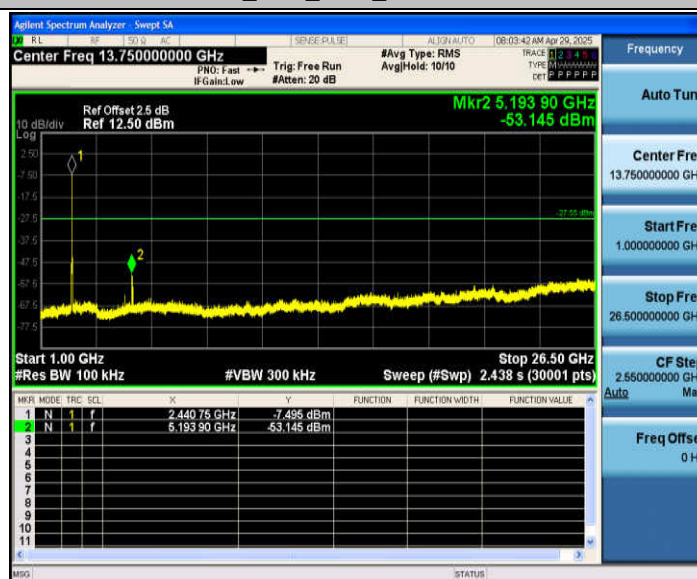
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



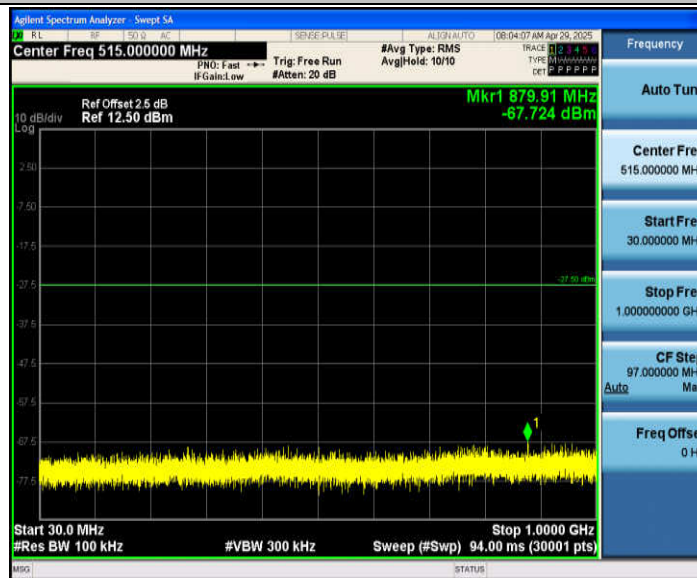
11G_Ant1_2437_1000~26500



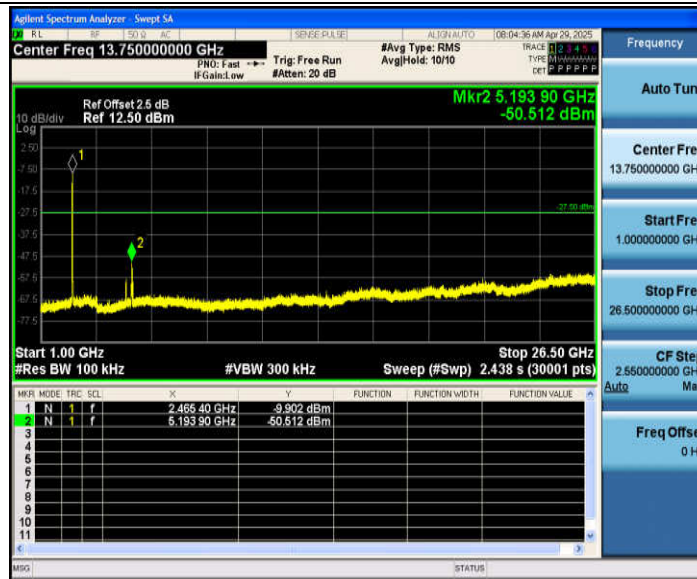
11G_Ant1_2462_0~Reference



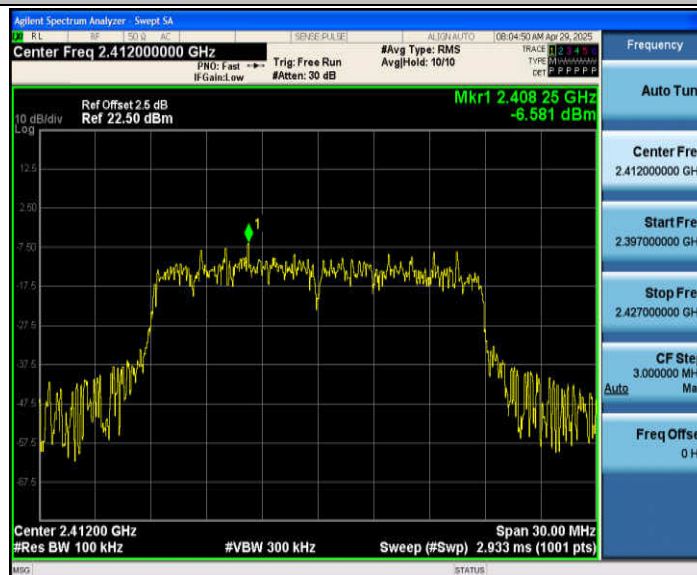
11G_Ant1_2462_30~1000



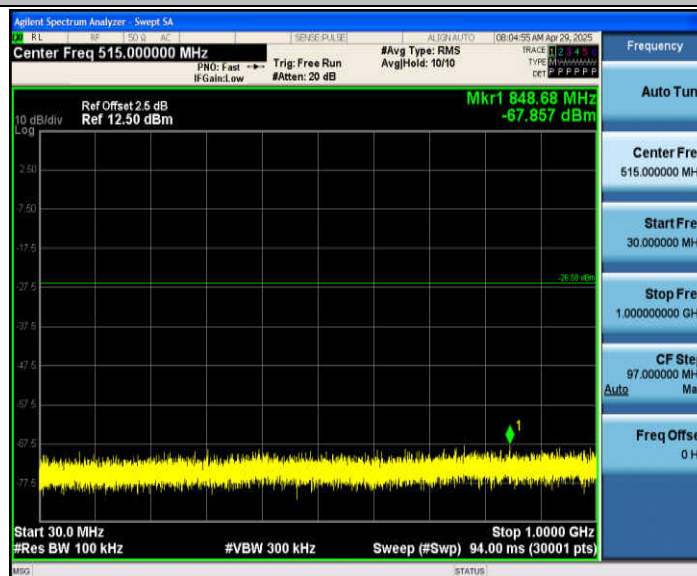
11G_Ant1_2462_1000~26500



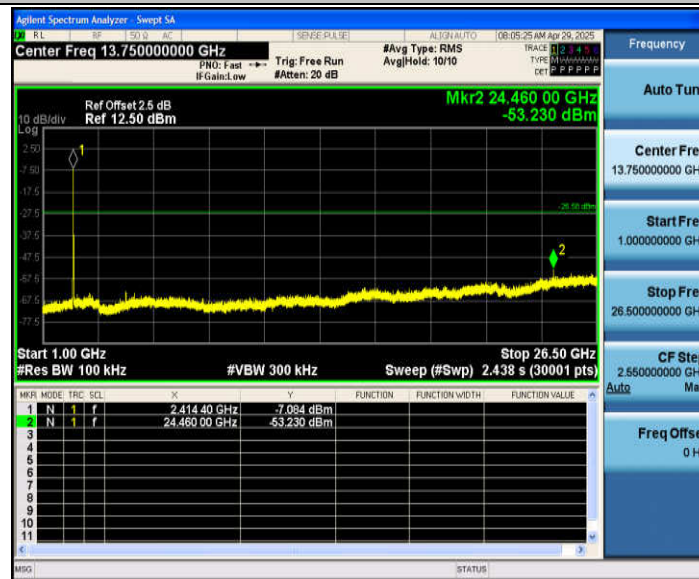
11N20ISO_Ant1_2412_0~Reference



11N20ISO_Ant1_2412_30~1000



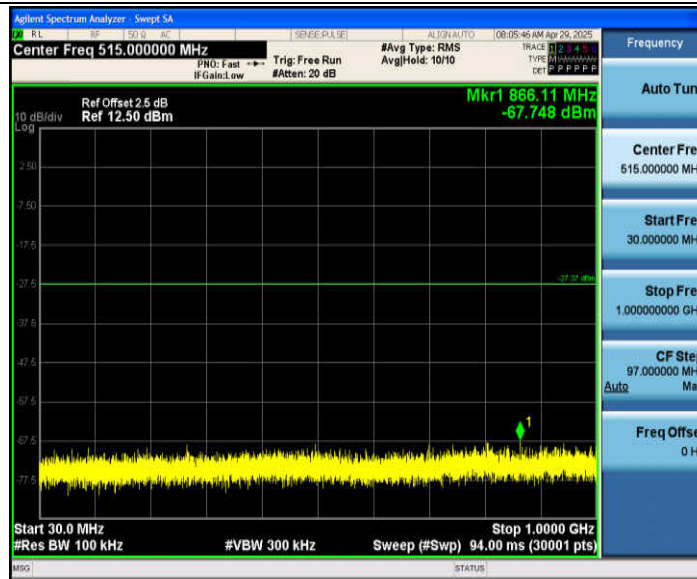
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



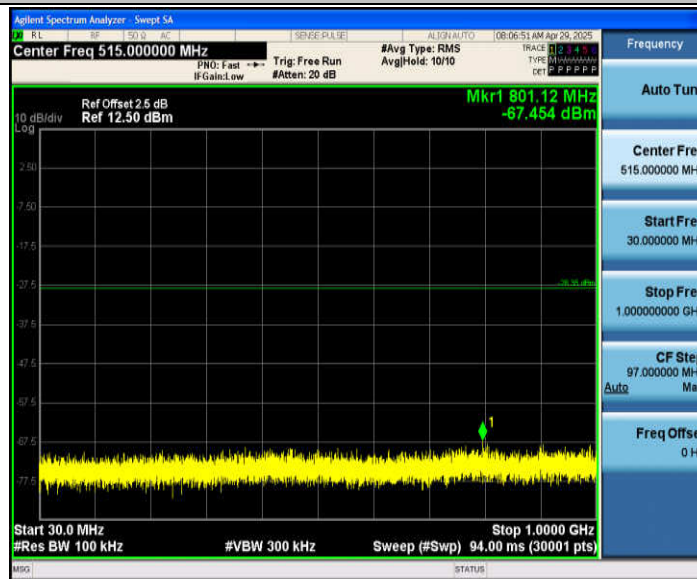
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



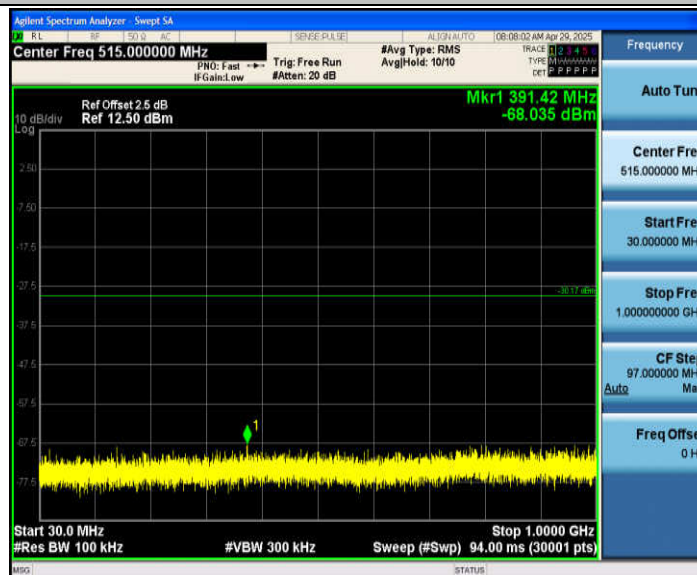
11N20SISO_Ant1_2462_1000~26500



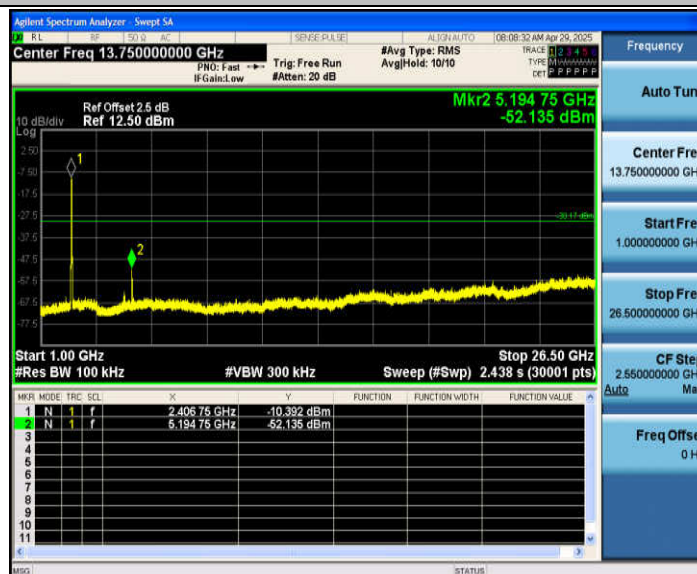
11N40SISO_Ant1_2422_0~Reference



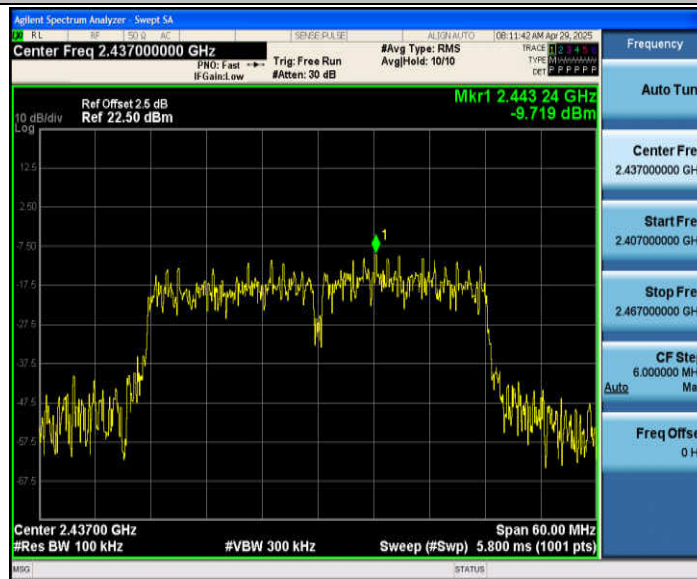
11N40SISO_Ant1_2422_30~1000



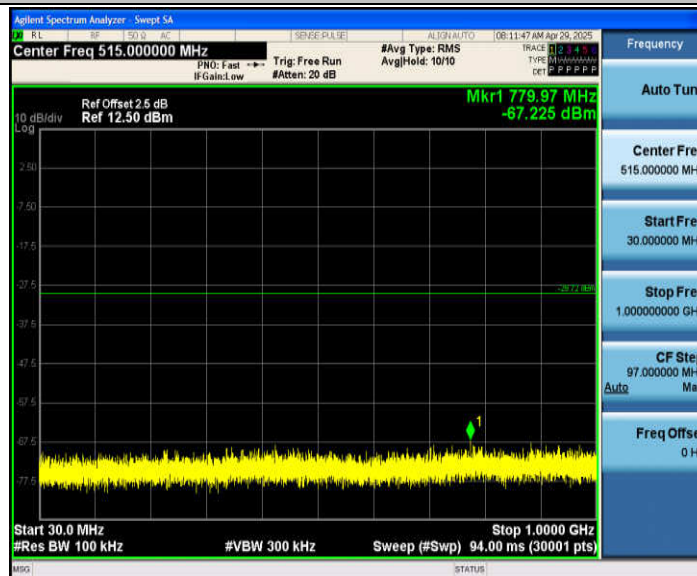
11N40SISO_Ant1_2422_1000~26500



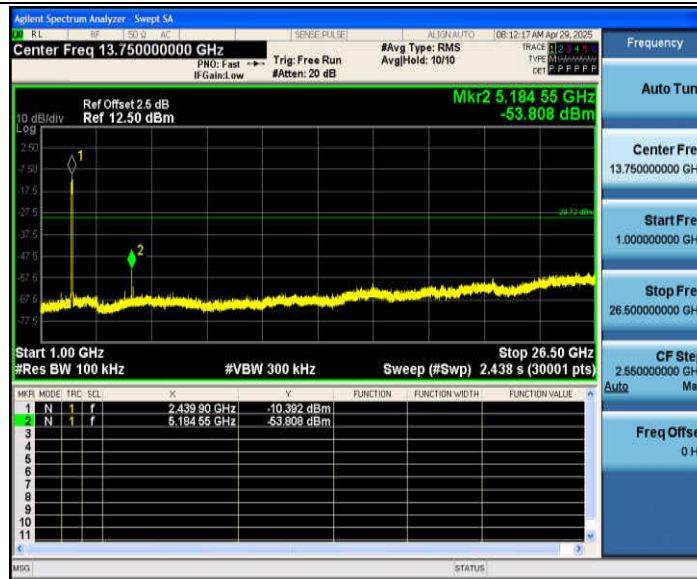
11N40SISO_Ant1_2437_0~Reference



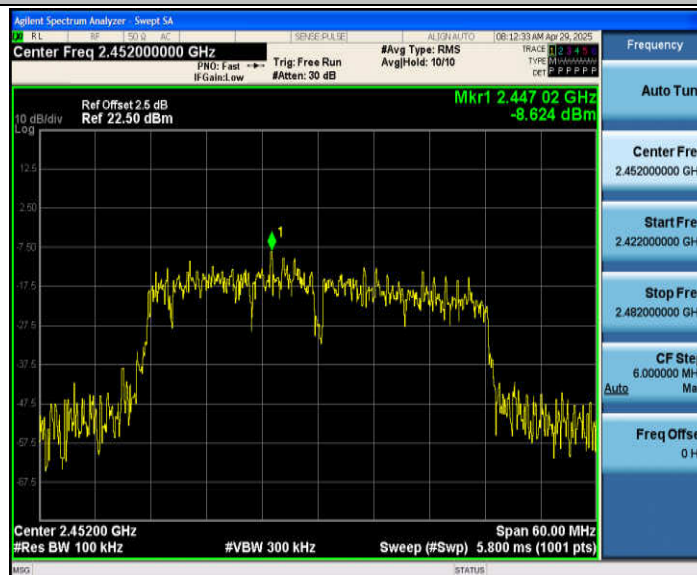
11N40SISO_Ant1_2437_30~1000



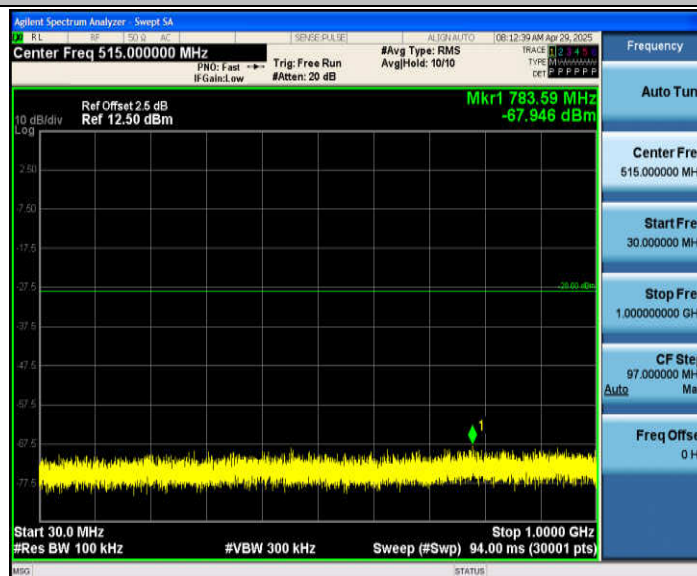
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



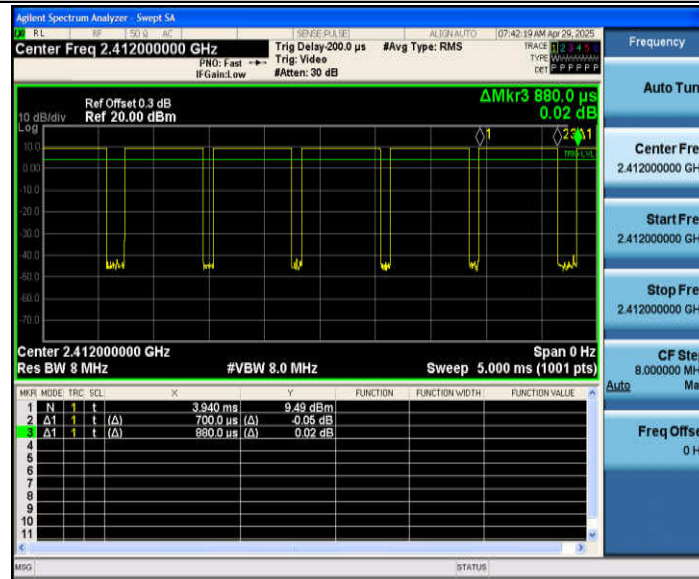
Appendix G: Duty Cycle

Test Result

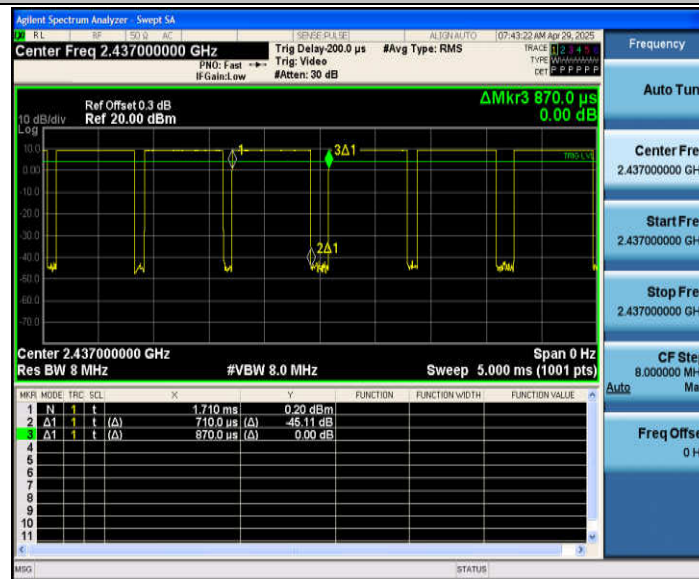
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	0.70	0.88	79.55
		2437	0.71	0.87	81.61
		2462	0.71	0.87	81.61
11G	Ant1	2412	0.11	0.27	40.74
		2437	0.11	0.28	39.29
		2462	0.11	0.27	40.74
11N20SISO	Ant1	2412	0.11	0.28	39.29
		2437	0.12	0.28	42.86
		2462	0.11	0.30	36.67
11N40SISO	Ant1	2422	0.07	0.24	29.17
		2437	0.07	0.27	25.93
		2452	0.07	0.24	29.17

Test Graphs

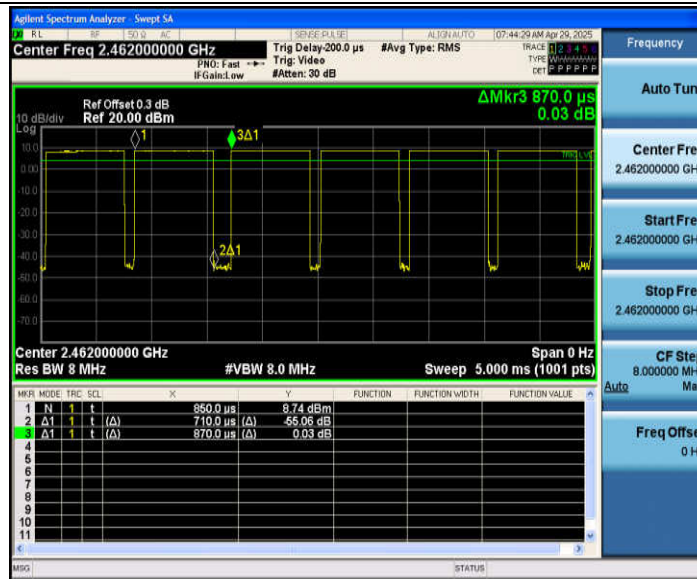
11B_Ant1_2412



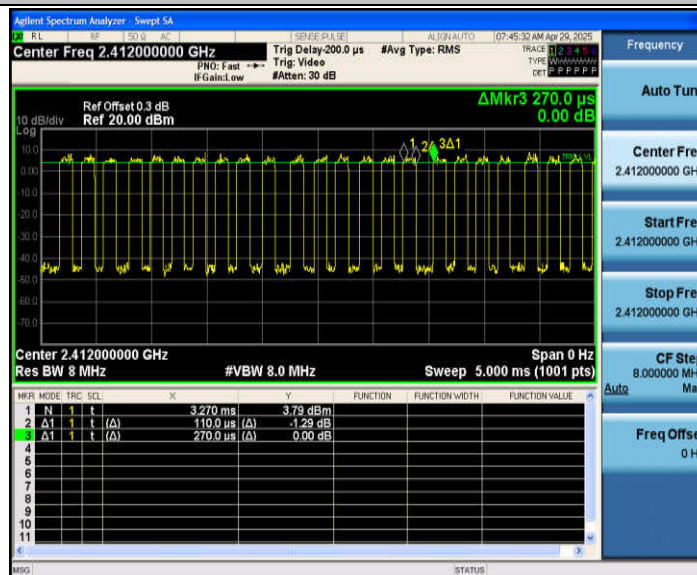
11B_Ant1_2437



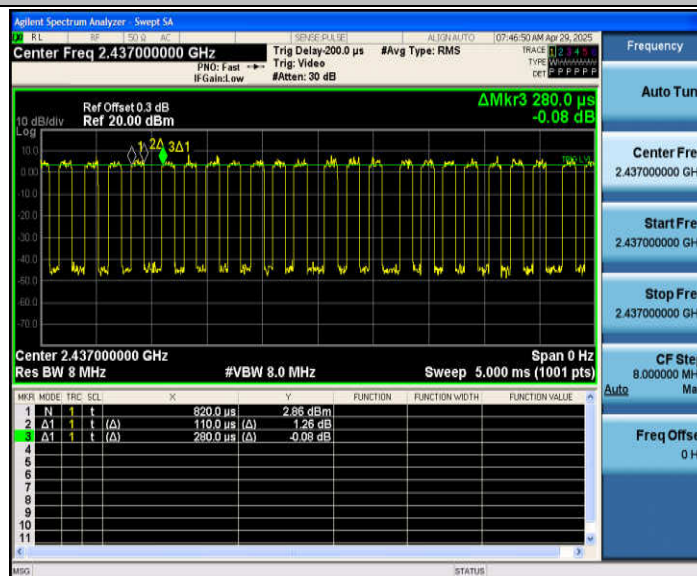
11B_Ant1_2462



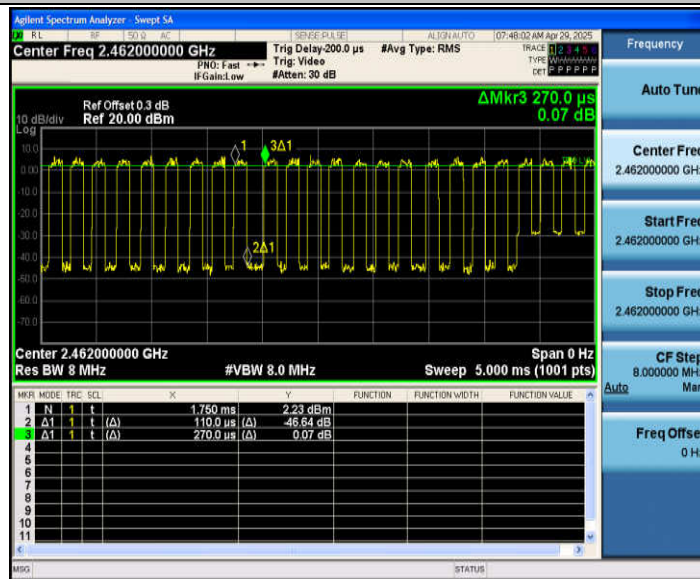
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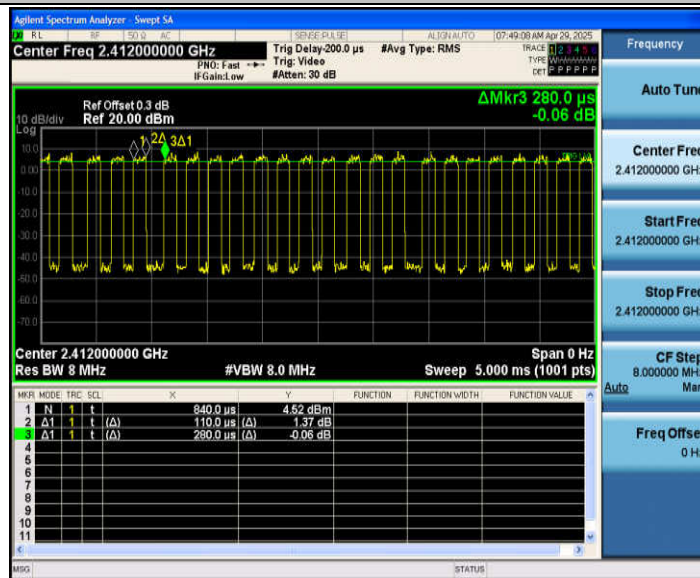
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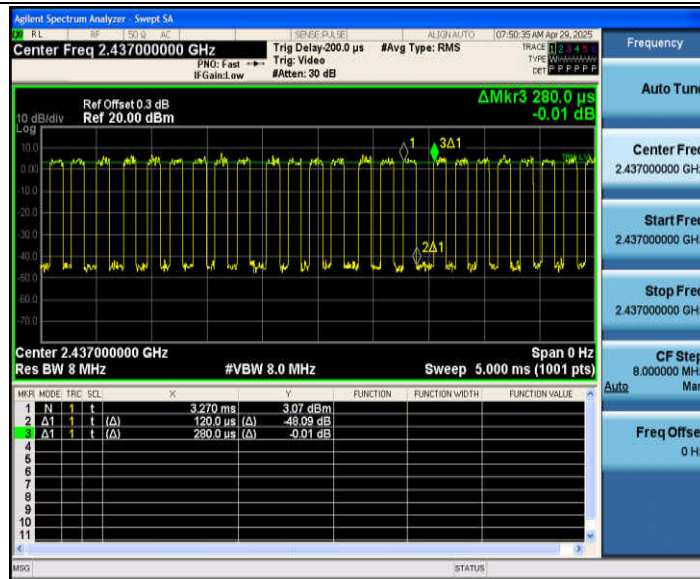
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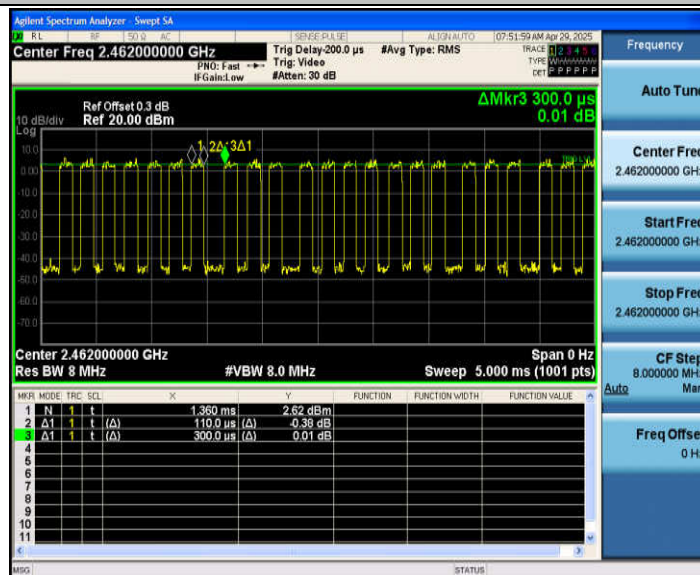
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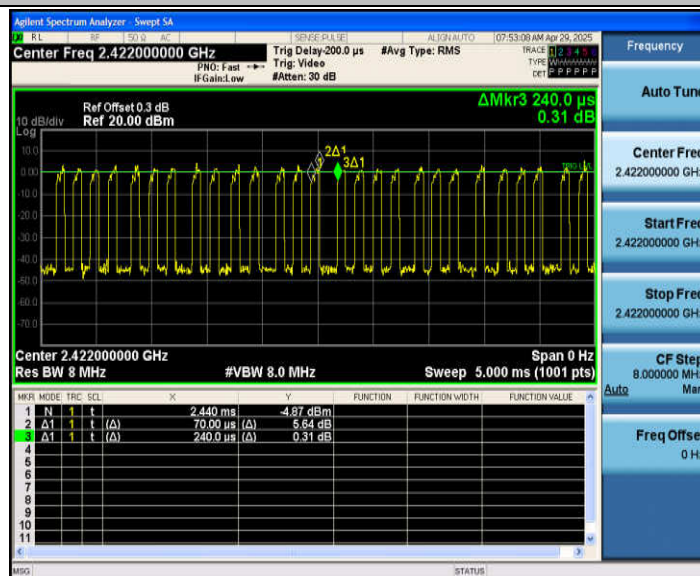
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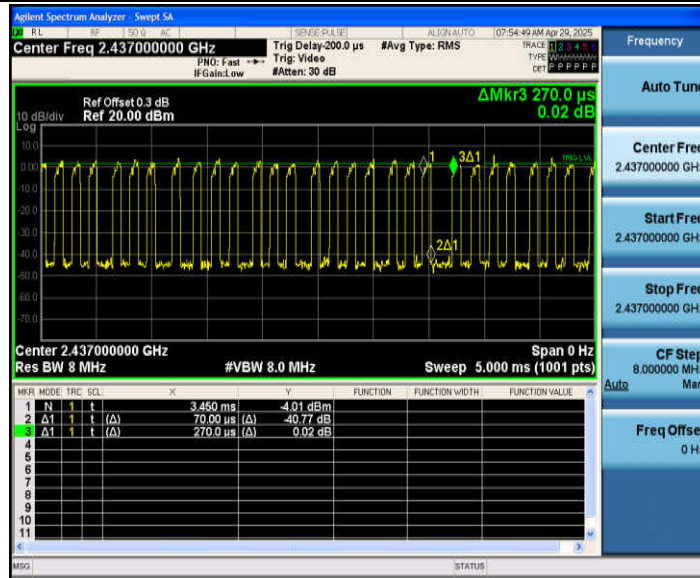
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

