

Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A8W5-S7MAX

Company : BAODE INTERNATIONAL LIMITED

EUT : Smart Media Player

Model Number : S7 Max

Report No. : CTA25080501103

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	8.560	2407.480	2416.040	0.5	PASS
		2437	9.640	2432.400	2442.040	0.5	PASS
		2462	9.080	2457.440	2466.520	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.720	2428.880	2444.600	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.200	2404.440	2420.640	0.5	PASS
		2437	15.960	2428.640	2444.600	0.5	PASS
		2462	16.440	2453.920	2470.360	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.120	2419.400	2454.520	0.5	PASS
		2452	35.520	2434.080	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



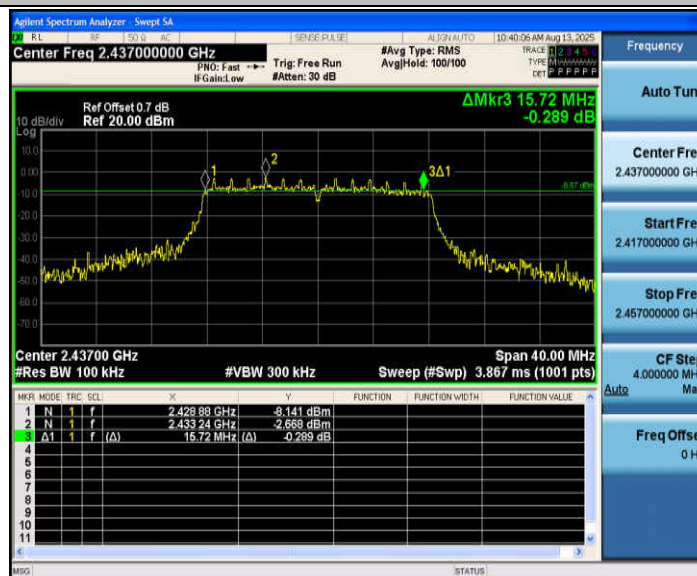
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



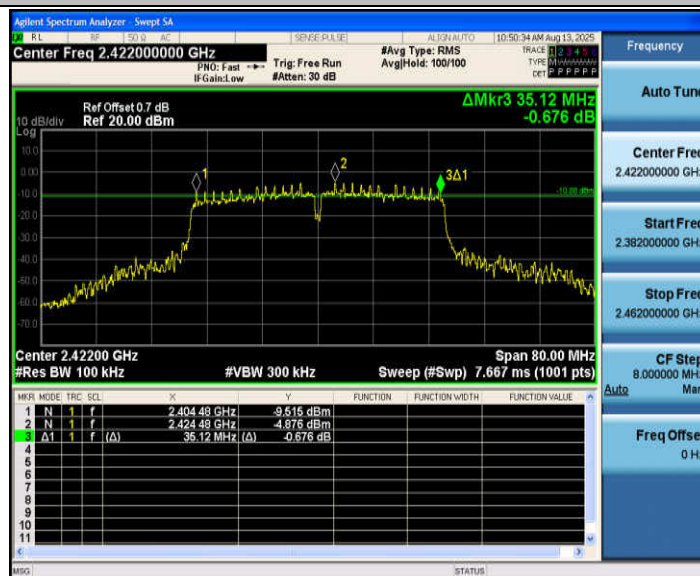
11N20SISO_Ant1_2437



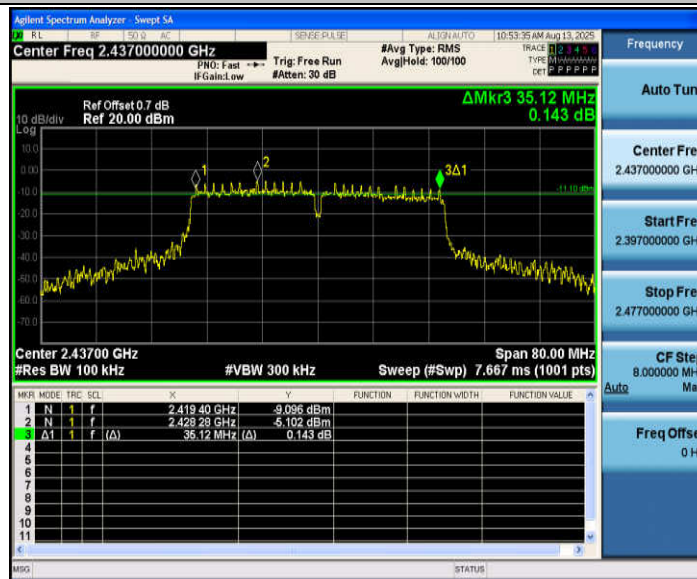
11N20SISO_Ant1_2462



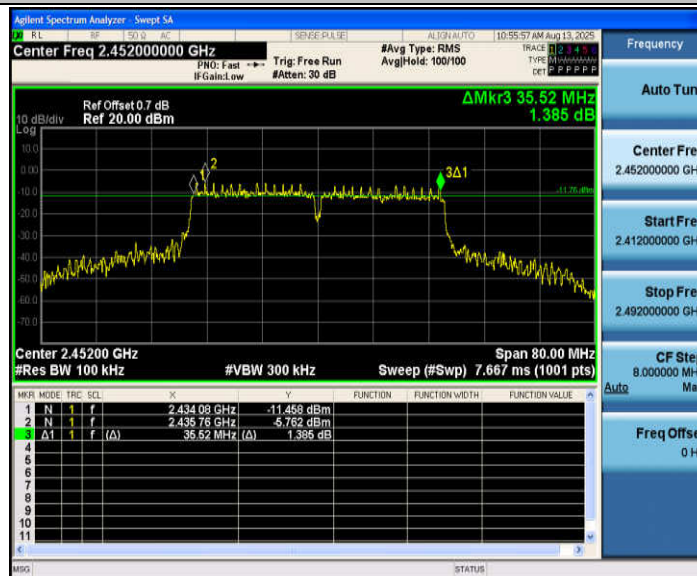
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



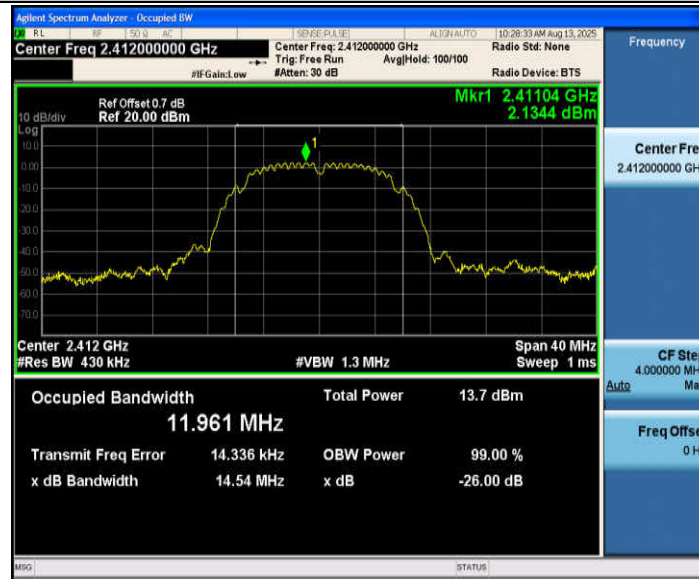
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.961	2406.0338	2417.9948	---	---
		2437	11.936	2430.9925	2442.9285	---	---
		2462	12.011	2456.0676	2468.0786	---	---
11G	Ant1	2412	16.592	2403.8369	2420.4289	---	---
		2437	16.609	2428.6495	2445.2585	---	---
		2462	16.713	2453.7080	2470.4210	---	---
11N20SISO	Ant1	2412	17.601	2403.3524	2420.9534	---	---
		2437	17.666	2428.1514	2445.8174	---	---
		2462	17.718	2453.1701	2470.8881	---	---
11N40SISO	Ant1	2422	35.935	2404.2680	2440.2030	---	---
		2437	36.104	2418.9014	2455.0054	---	---
		2452	36.402	2433.8086	2470.2106	---	---

Test Graphs

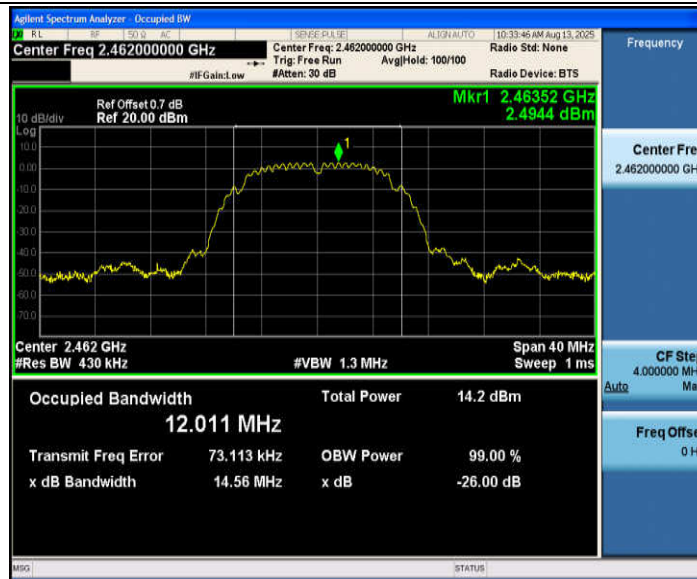
11B_Ant1_2412



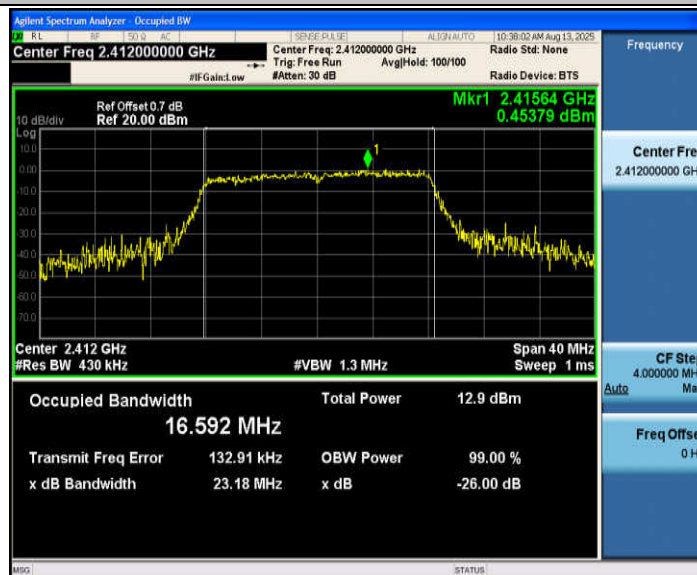
11B_Ant1_2437



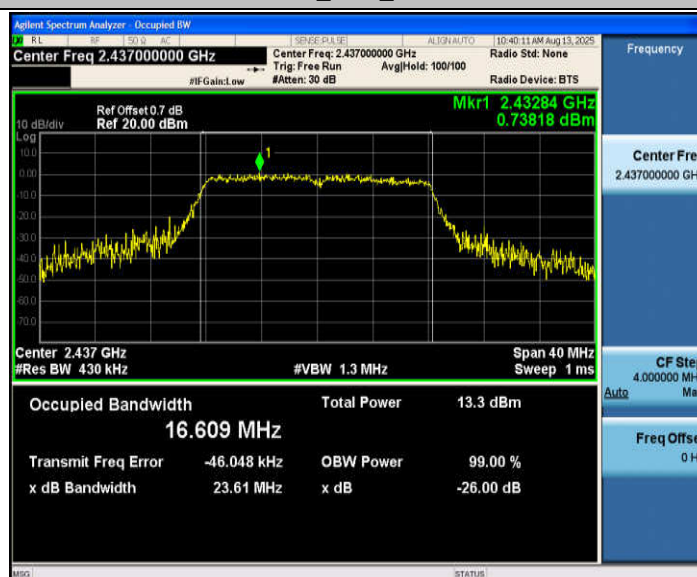
11B_Ant1_2462



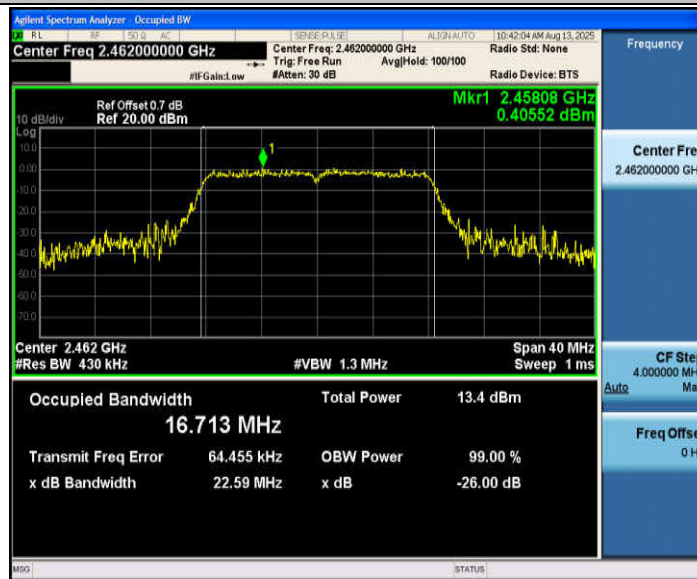
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



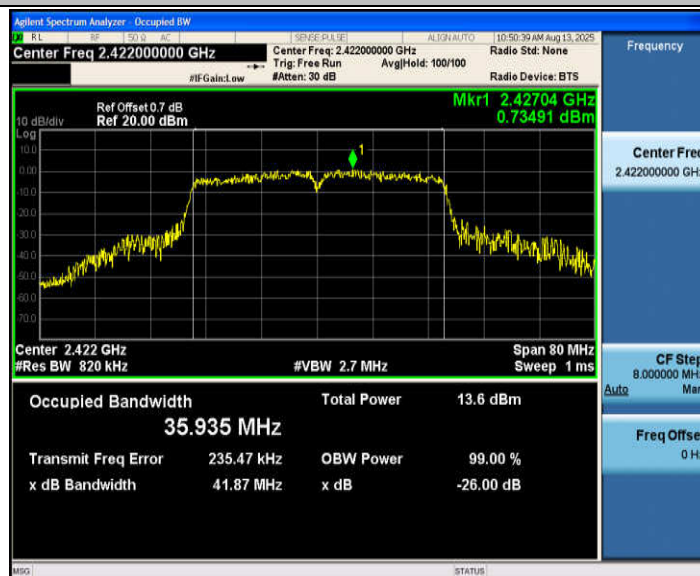
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



Appendix C: Maximum conducted output power

Test Result Peak

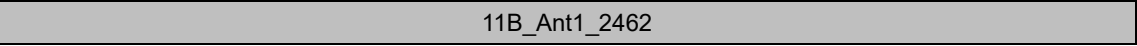
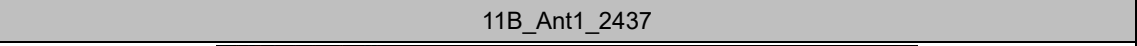
Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.40	≤30.00	PASS
		2437	13.20	≤30.00	PASS
		2462	14.02	≤30.00	PASS
11G	Ant1	2412	13.61	≤30.00	PASS
		2437	13.92	≤30.00	PASS
		2462	14.15	≤30.00	PASS
11N20SISO	Ant1	2412	13.48	≤30.00	PASS
		2437	13.90	≤30.00	PASS
		2462	14.16	≤30.00	PASS
11N40SISO	Ant1	2422	13.61	≤30.00	PASS
		2437	13.69	≤30.00	PASS
		2452	13.20	≤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	-12.15	≤8.00	PASS
		2437	-12.66	≤8.00	PASS
		2462	-11.96	≤8.00	PASS
11G	Ant1	2412	-18.16	≤8.00	PASS
		2437	-17.71	≤8.00	PASS
		2462	-17.38	≤8.00	PASS
11N20SISO	Ant1	2412	-17.82	≤8.00	PASS
		2437	-18.19	≤8.00	PASS
		2462	-18.31	≤8.00	PASS
11N40SISO	Ant1	2422	-20.69	≤8.00	PASS
		2437	-21.08	≤8.00	PASS
		2452	-22.40	≤8.00	PASS

11B_Ant1_2412

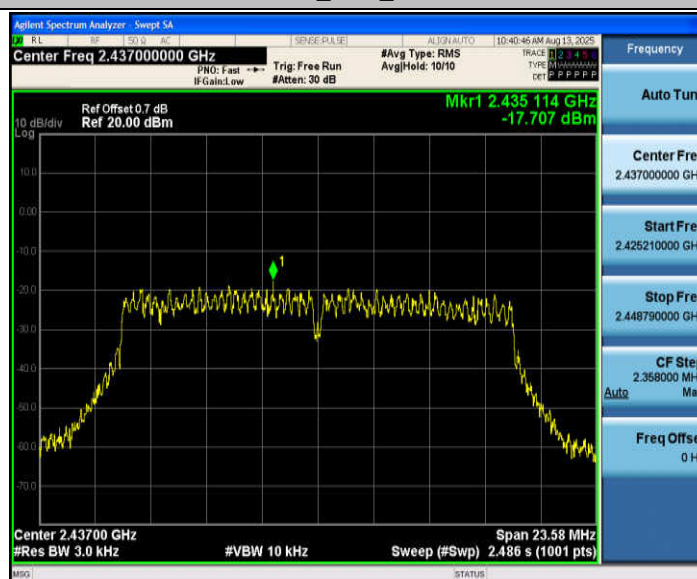




11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



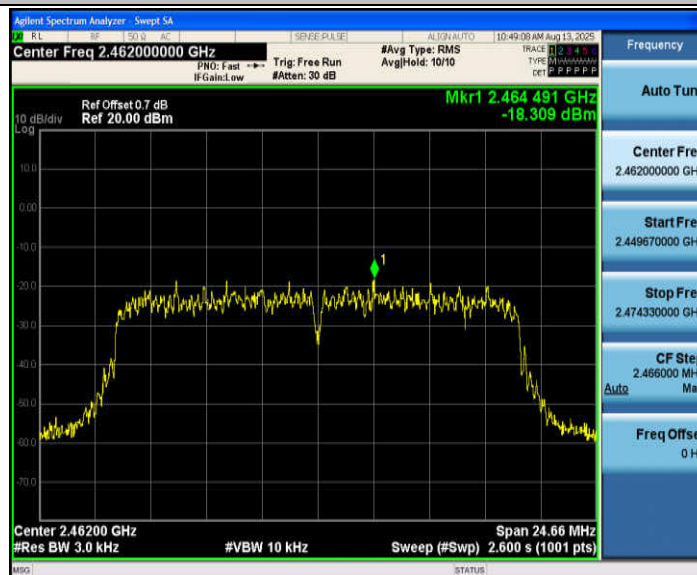
11N20SISO_Ant1_2412



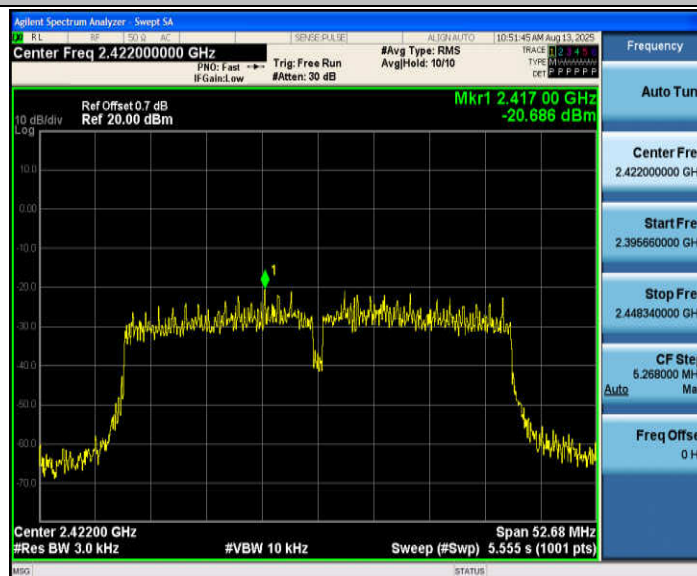
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



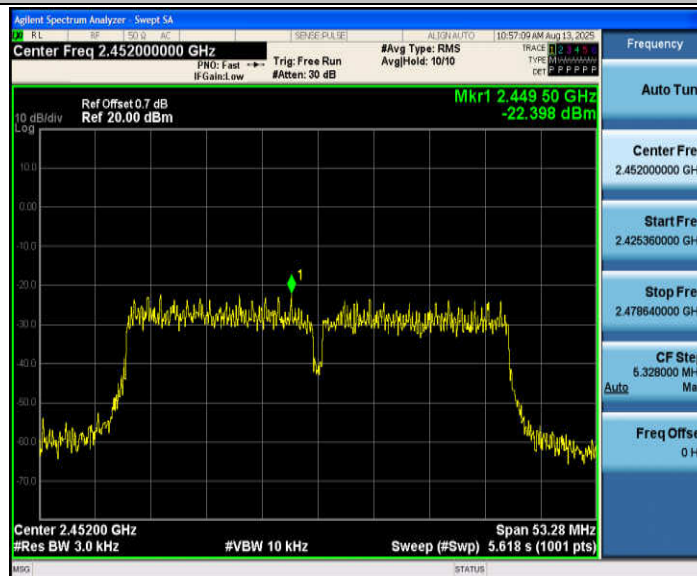
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



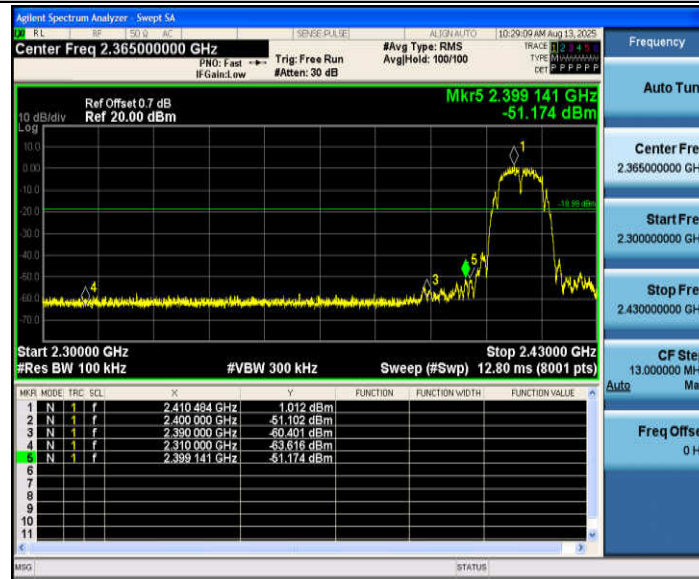
Appendix E: Band edge measurements

Test Result

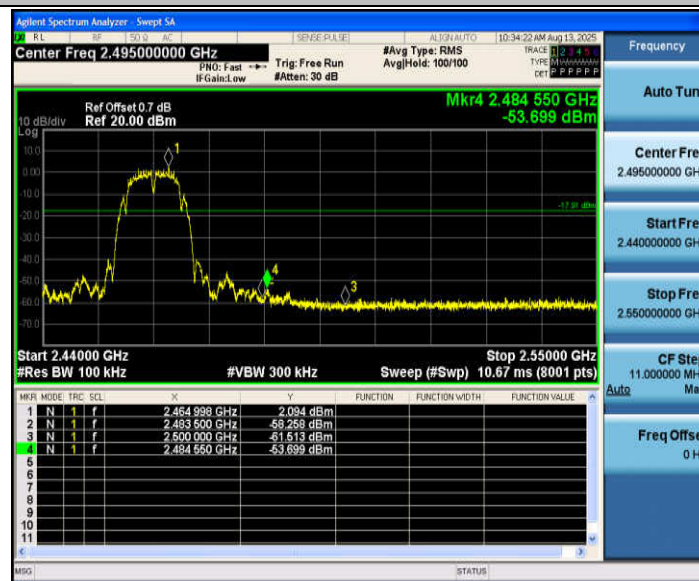
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.01	-51.17	≤-18.99	PASS
		High	2462	2.09	-53.7	≤-17.91	PASS
11G	Ant1	Low	2412	-2.41	-39.14	≤-22.41	PASS
		High	2462	-2.63	-48.49	≤-22.63	PASS
11N20SISO	Ant1	Low	2412	-2.42	-39.06	≤-22.42	PASS
		High	2462	-2.28	-48.67	≤-22.28	PASS
11N40SISO	Ant1	Low	2422	-4.82	-38.85	≤-24.82	PASS
		High	2452	-5.77	-42.15	≤-25.77	PASS

Test Graphs

11B_Ant1_Low_2412



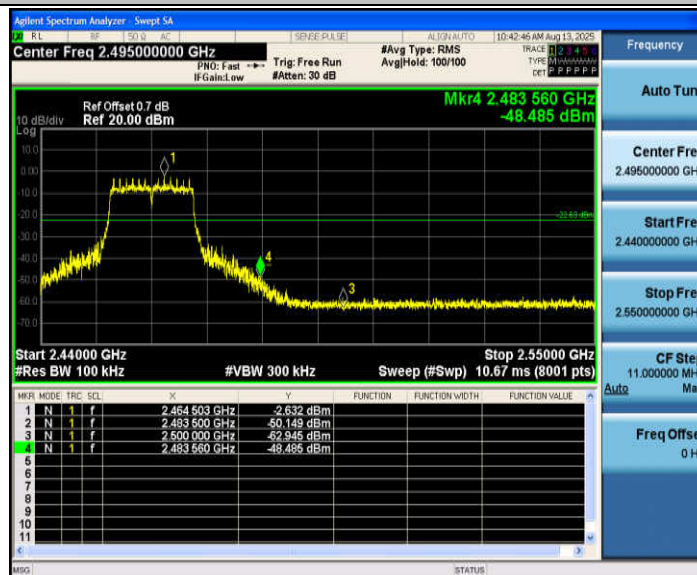
11B_Ant1_High_2462



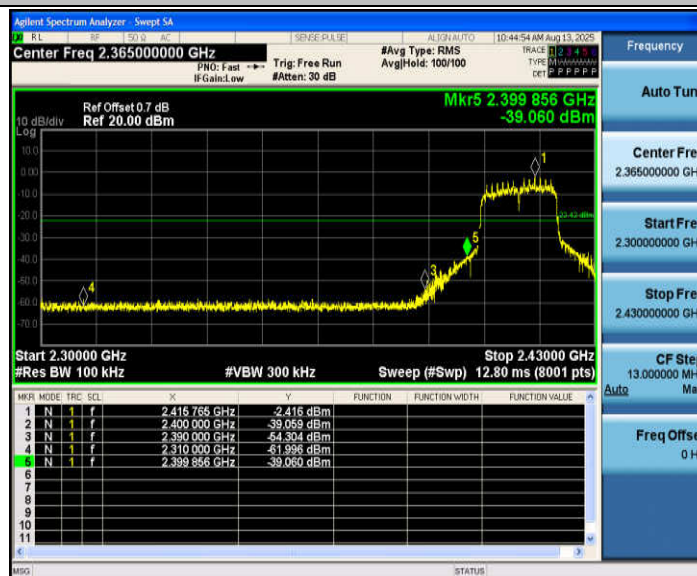
11G_Ant1_Low_2412



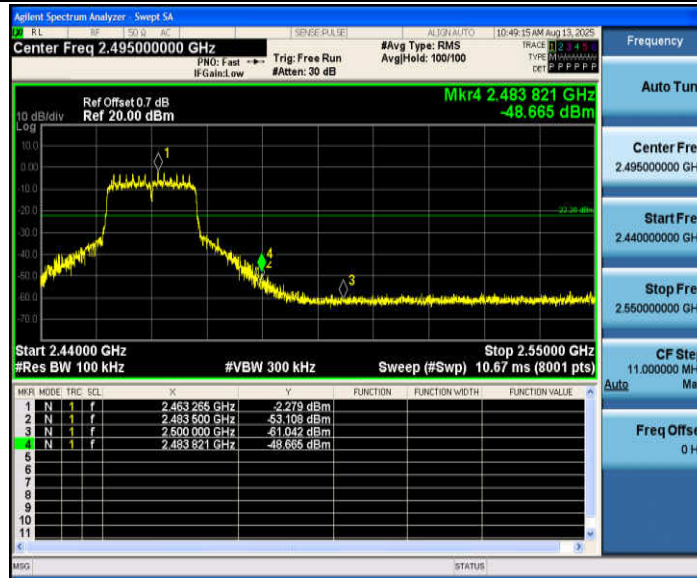
11G_Ant1_High_2462



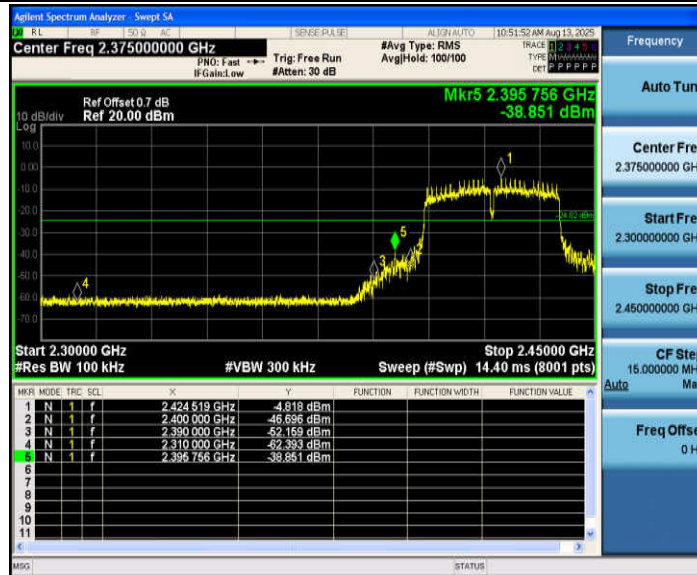
11N20SISO_Ant1_Low_2412



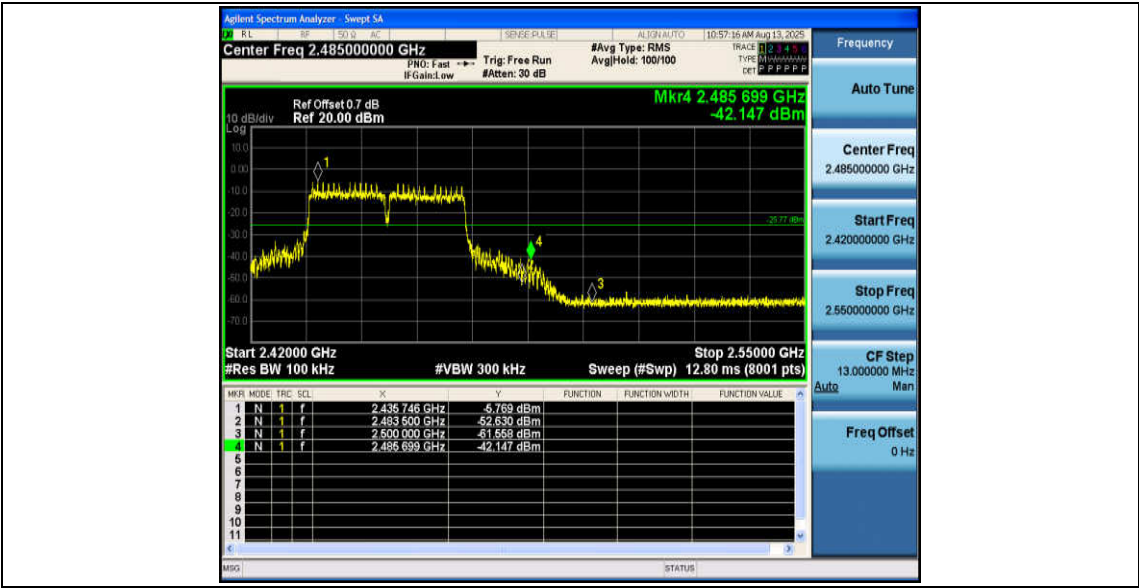
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

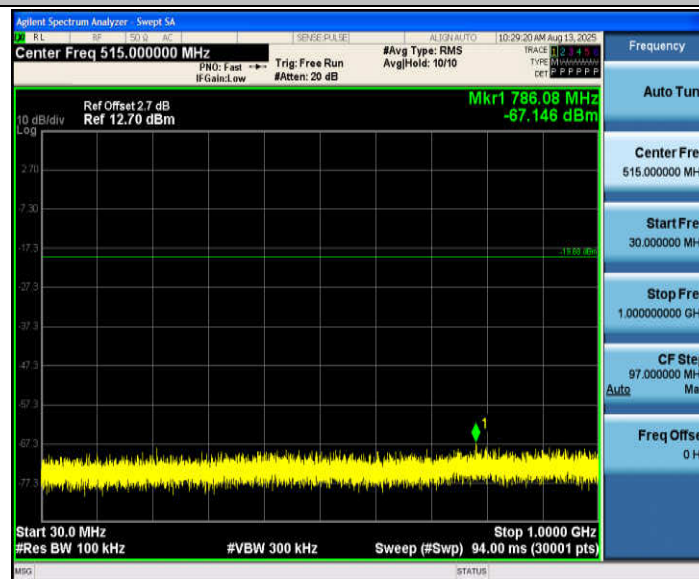
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-67.15	≤-19.68	PASS
			1000~26500	0.32	-41.45	≤-19.68	PASS
		2437	Reference	-0.38	-0.38	---	PASS
			30~1000	-0.38	-67.67	≤-20.38	PASS
			1000~26500	-0.38	-44.49	≤-20.38	PASS
		2462	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-67.14	≤-19.15	PASS
			1000~26500	0.85	-37.54	≤-19.15	PASS
11G	Ant1	2412	Reference	-2.88	-2.88	---	PASS
			30~1000	-2.88	-67.83	≤-22.88	PASS
			1000~26500	-2.88	-54.34	≤-22.88	PASS
		2437	Reference	-2.69	-2.69	---	PASS
			30~1000	-2.69	-68.05	≤-22.69	PASS
			1000~26500	-2.69	-54.45	≤-22.69	PASS
		2462	Reference	-2.68	-2.68	---	PASS
			30~1000	-2.68	-66.65	≤-22.68	PASS
			1000~26500	-2.68	-49.3	≤-22.68	PASS
11N20SISO	Ant1	2412	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-67.23	≤-22.6	PASS
			1000~26500	-2.60	-53.79	≤-22.6	PASS
		2437	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-51.76	≤-22.84	PASS
			1000~26500	-2.84	-54.58	≤-22.84	PASS
		2462	Reference	-3.29	-3.29	---	PASS
			30~1000	-3.29	-67.99	≤-23.29	PASS
			1000~26500	-3.29	-49.32	≤-23.29	PASS
11N40SISO	Ant1	2422	Reference	-5.04	-5.04	---	PASS
			30~1000	-5.04	-67.91	≤-25.04	PASS
			1000~26500	-5.04	-55.06	≤-25.04	PASS
		2437	Reference	-5.38	-5.38	---	PASS
			30~1000	-5.38	-66.97	≤-25.38	PASS
			1000~26500	-5.38	-54.72	≤-25.38	PASS
		2452	Reference	-6.10	-6.10	---	PASS
			30~1000	-6.10	-67.56	≤-26.1	PASS
			1000~26500	-6.10	-53.25	≤-26.1	PASS

Test Graphs

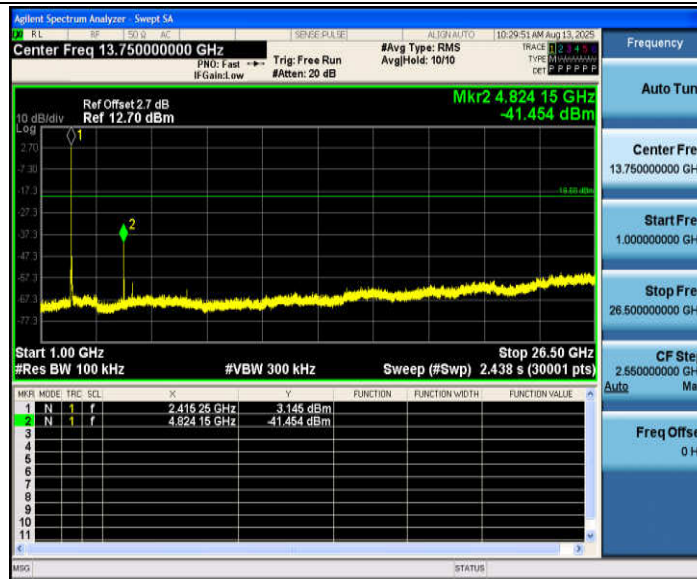
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



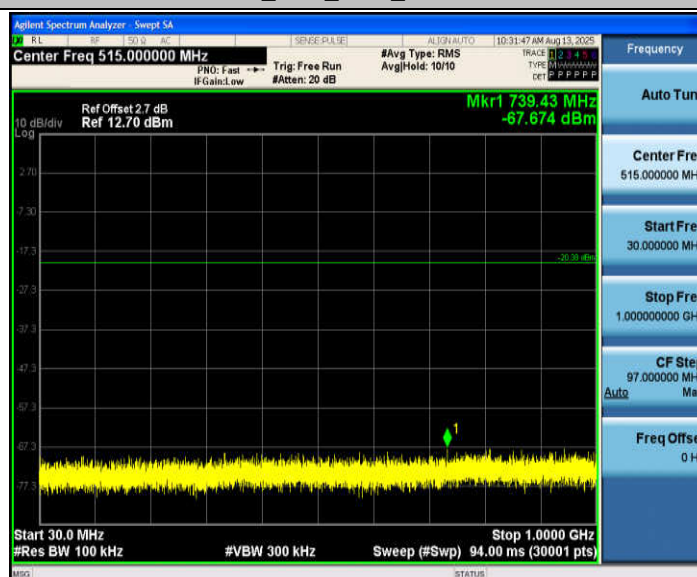
11B_Ant1_2412_1000~26500



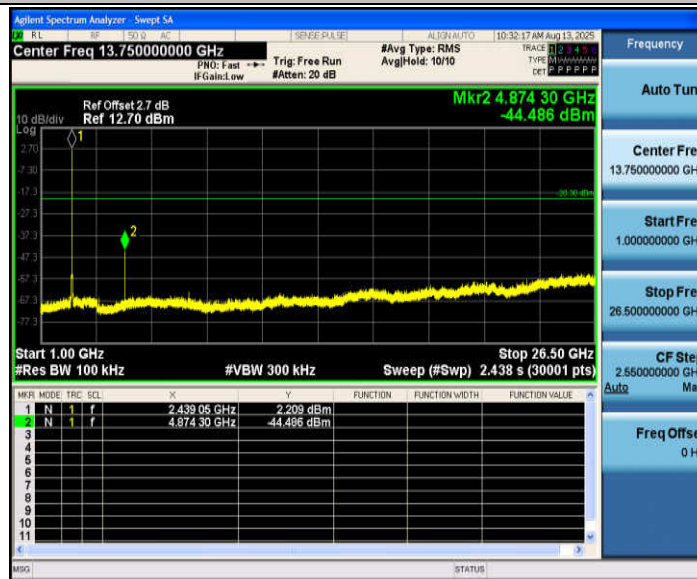
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



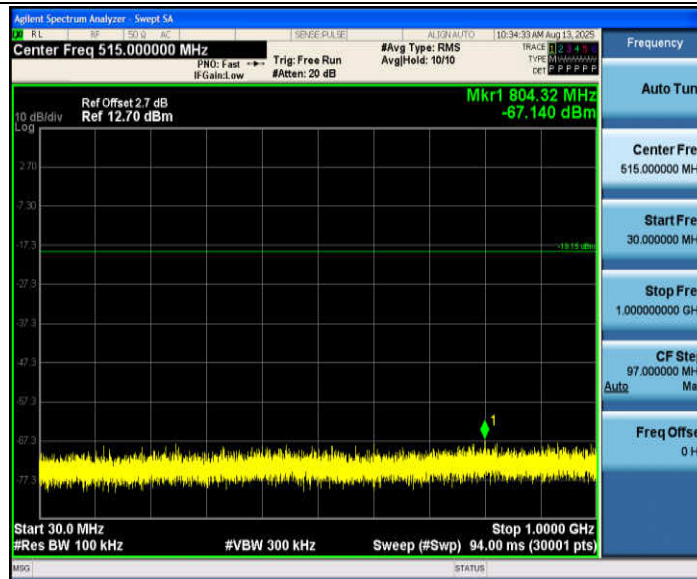
11B_Ant1_2437_1000~26500



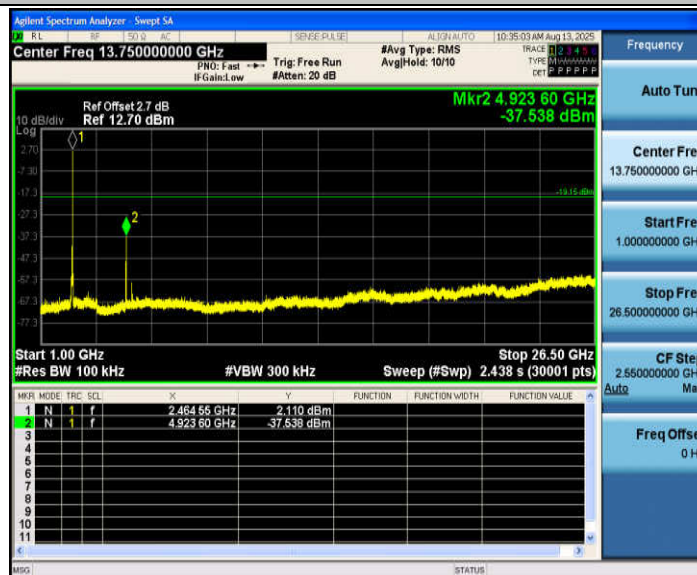
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



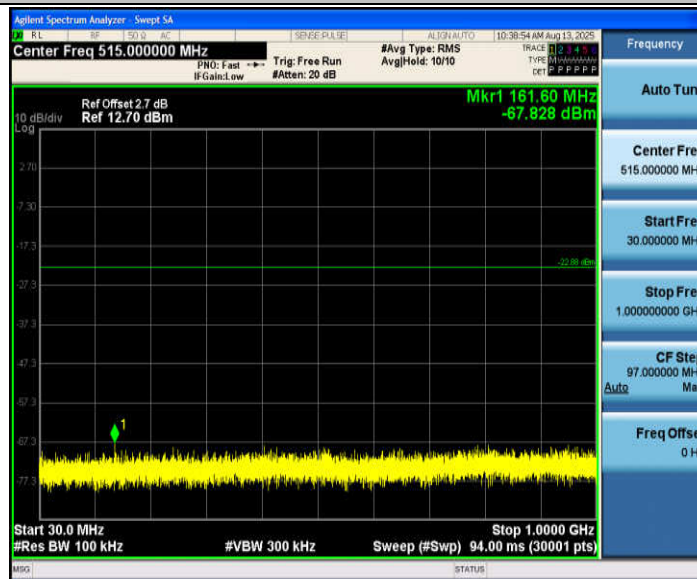
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



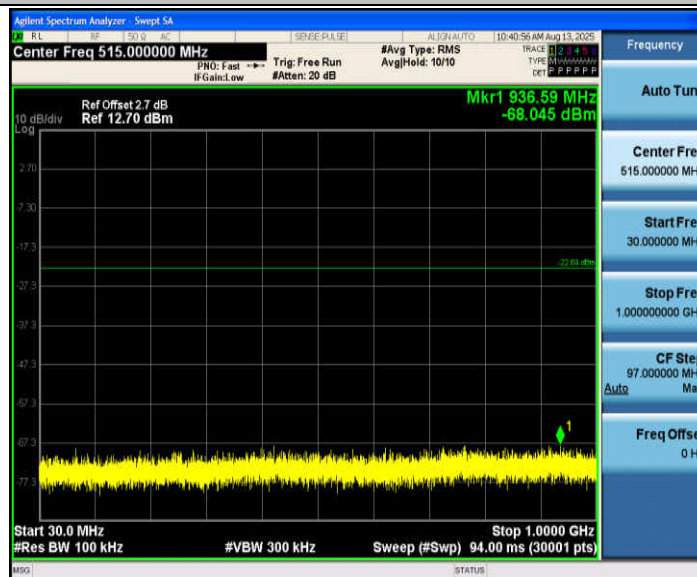
11G_Ant1_2412_1000~26500



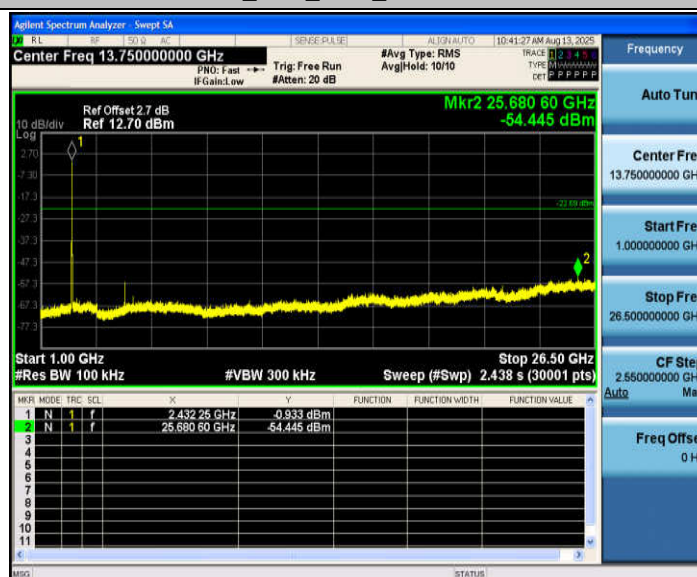
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



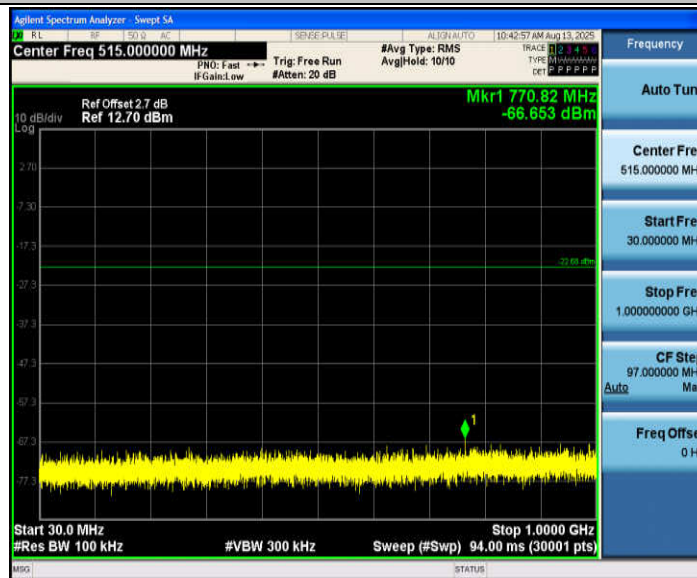
11G_Ant1_2437_1000~26500



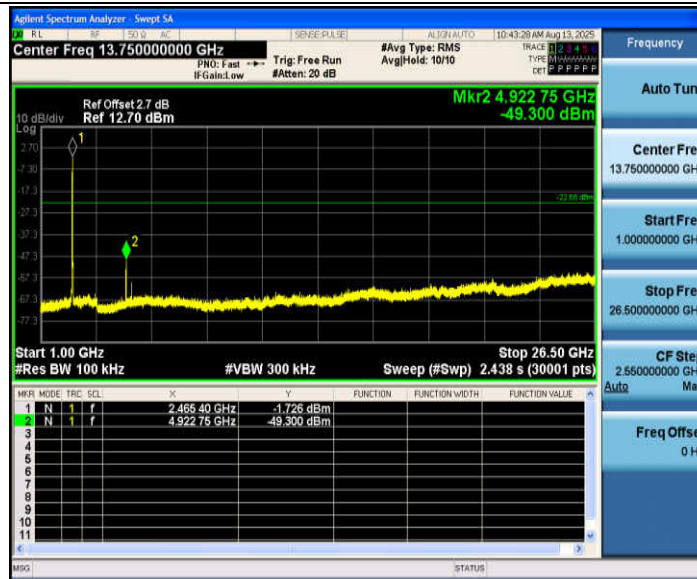
11G_Ant1_2462_0~Reference



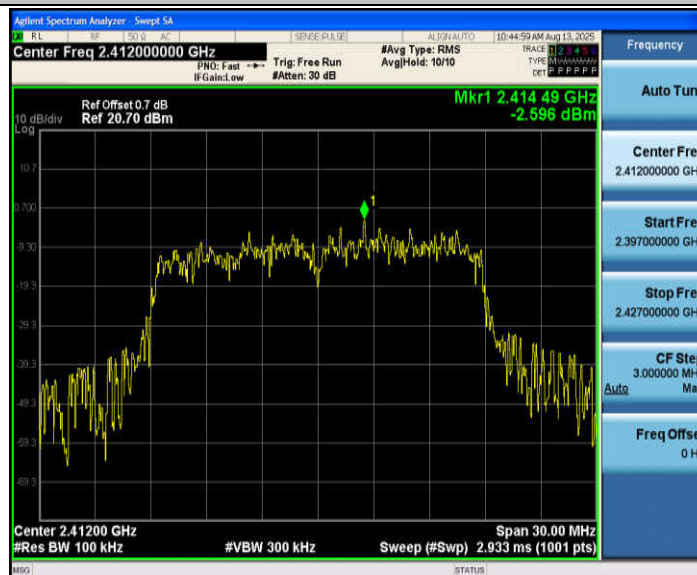
11G_Ant1_2462_30~1000



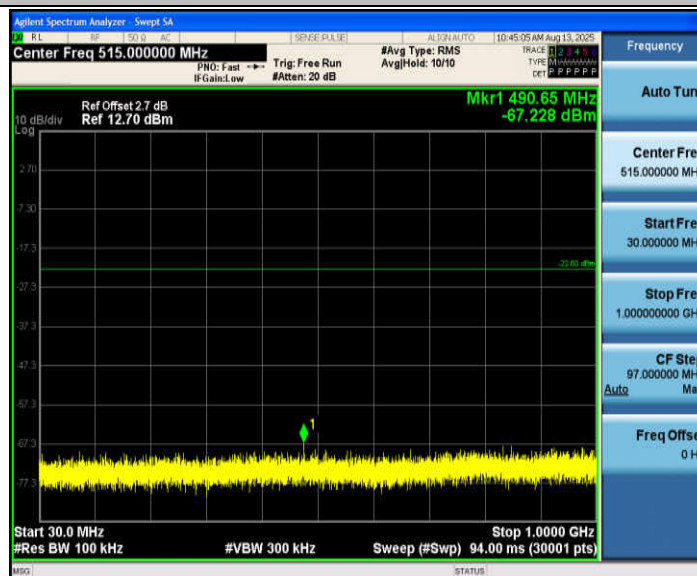
11G_Ant1_2462_1000~26500



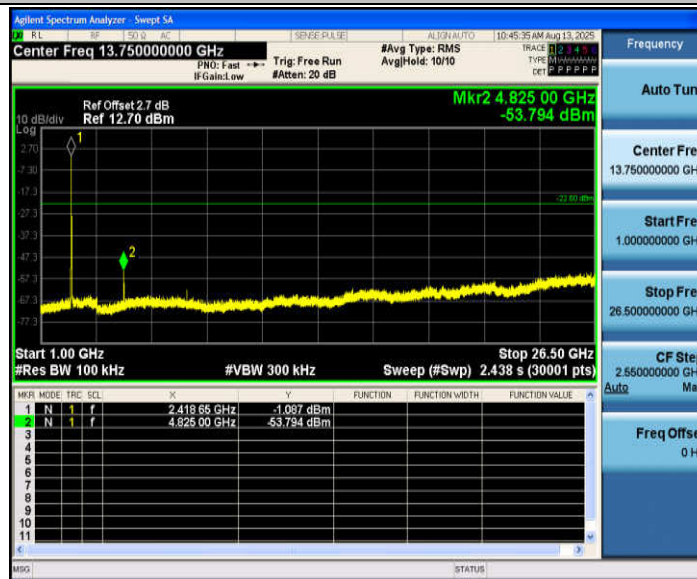
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



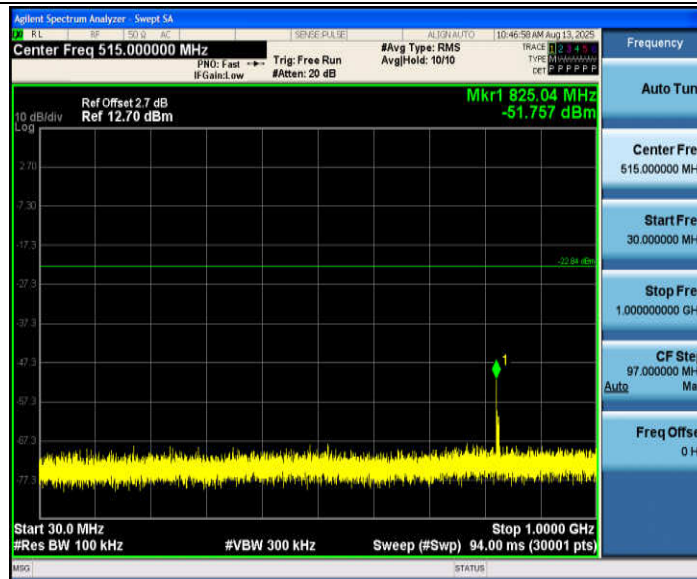
11N20SISO_Ant1_2412_1000~26500



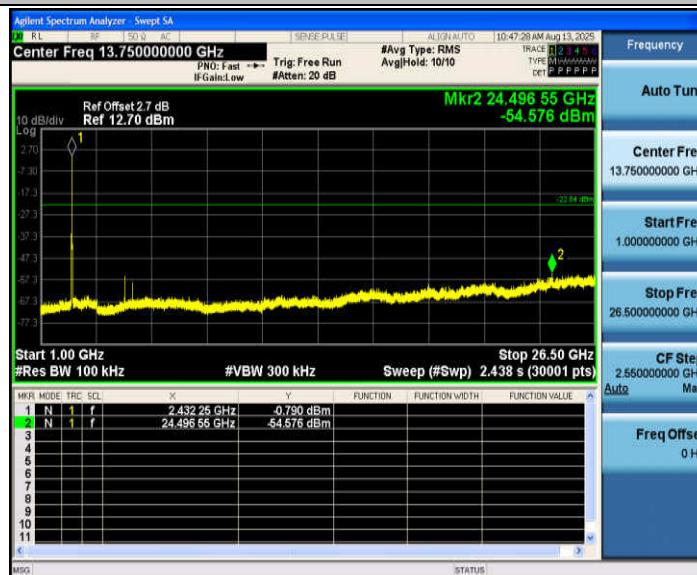
11N20SISO_Ant1_2437_0~Reference



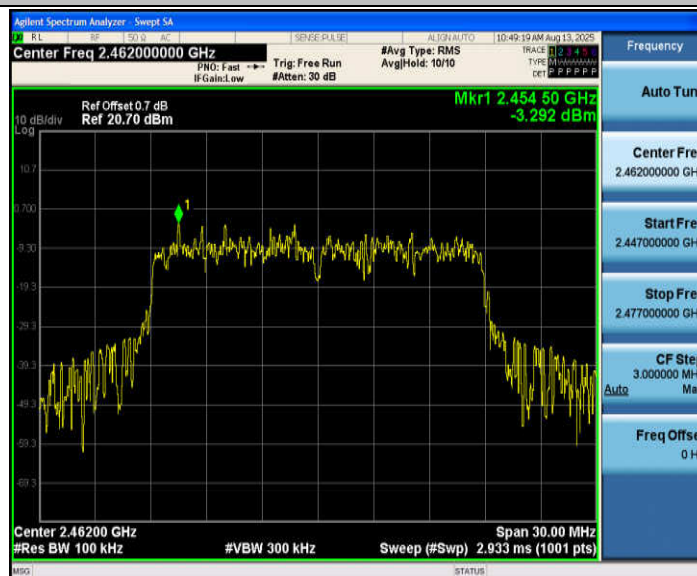
11N20SISO_Ant1_2437_30~1000



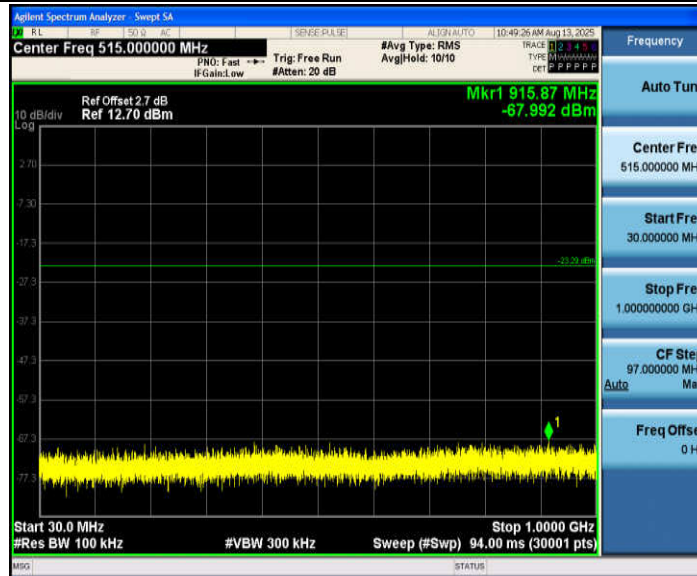
11N20SISO_Ant1_2437_1000~26500



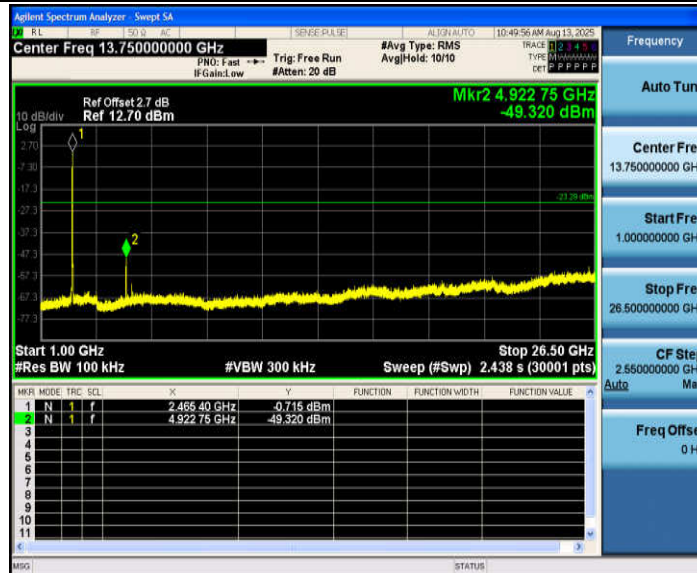
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



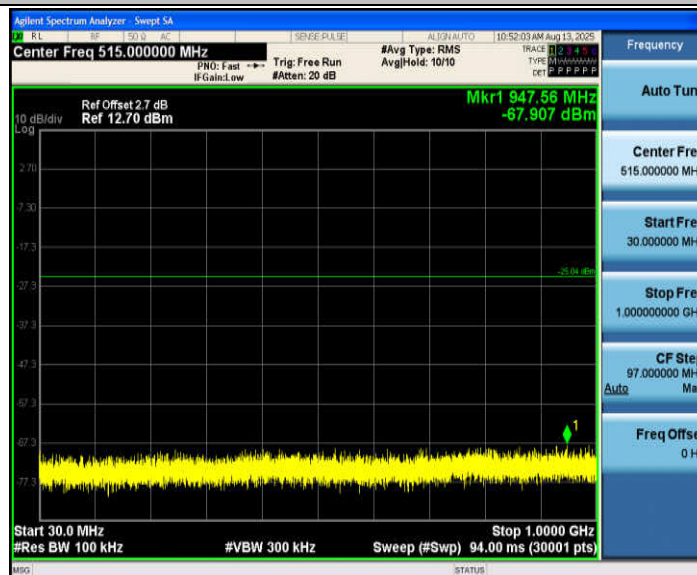
11N20SISO_Ant1_2462_1000~26500



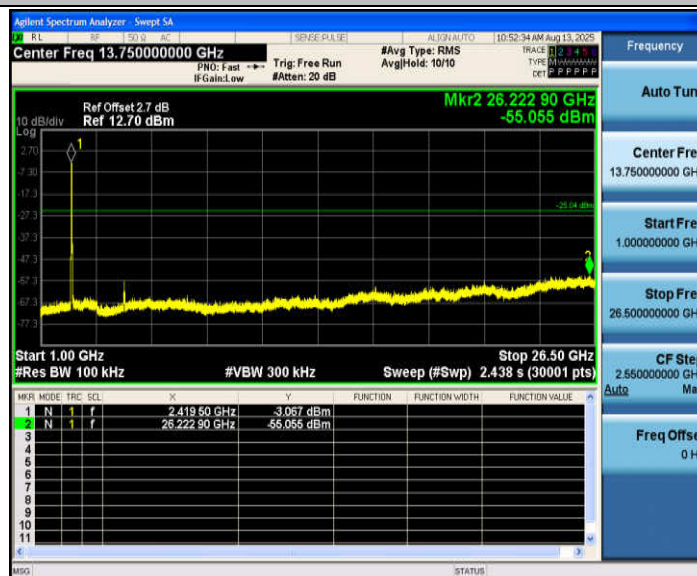
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



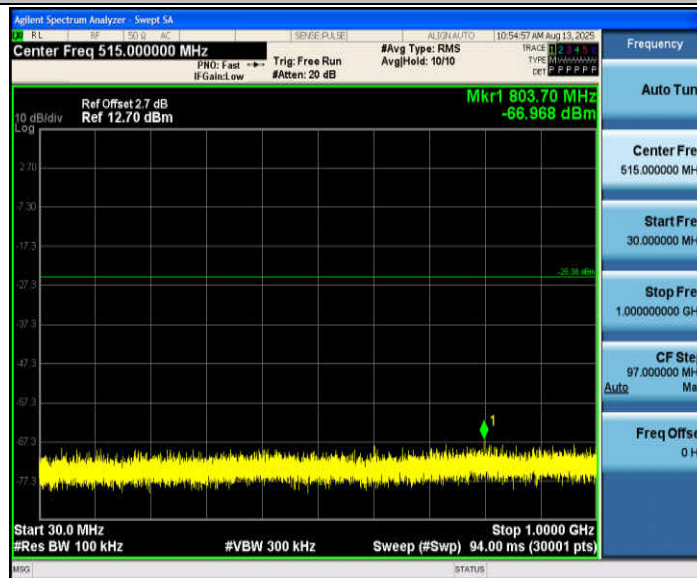
11N40SISO_Ant1_2422_1000~26500



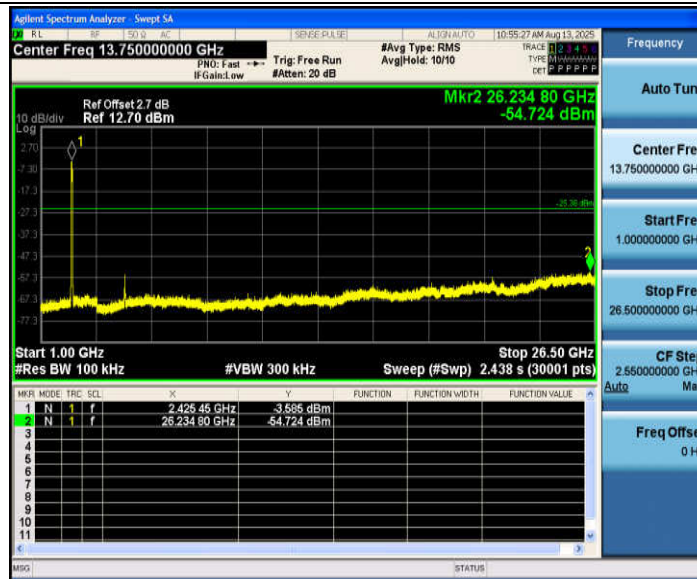
11N40SISO_Ant1_2437_0~Reference



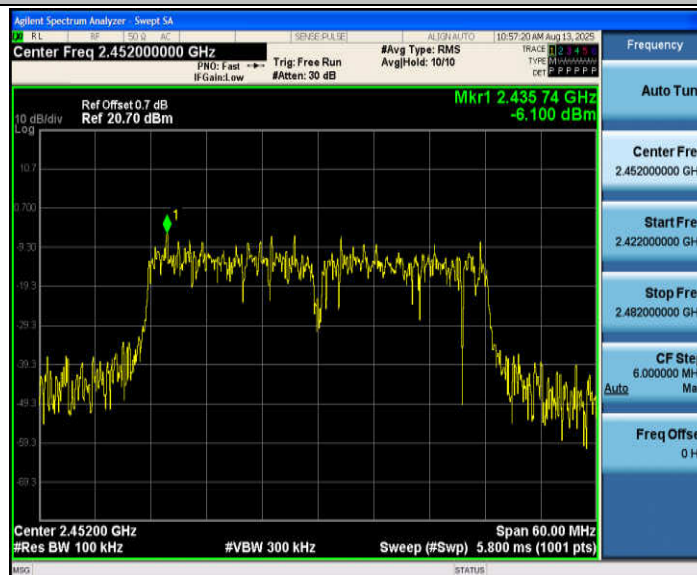
11N40SISO_Ant1_2437_30~1000



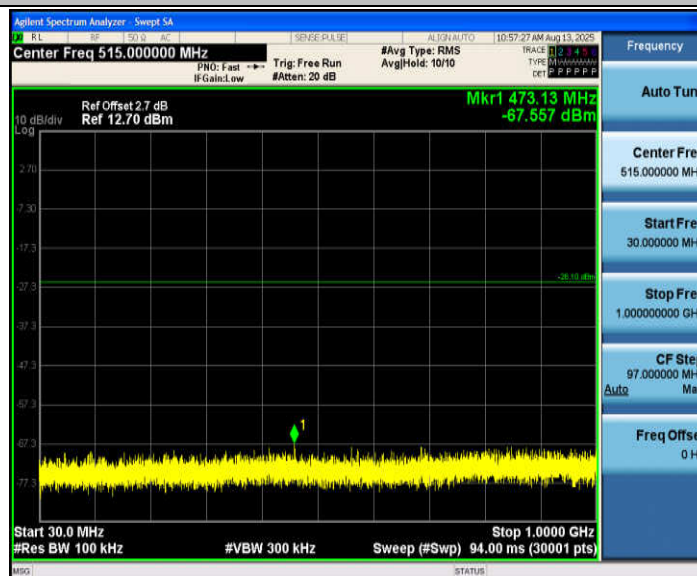
11N40SISO_Ant1_2437_1000~26500

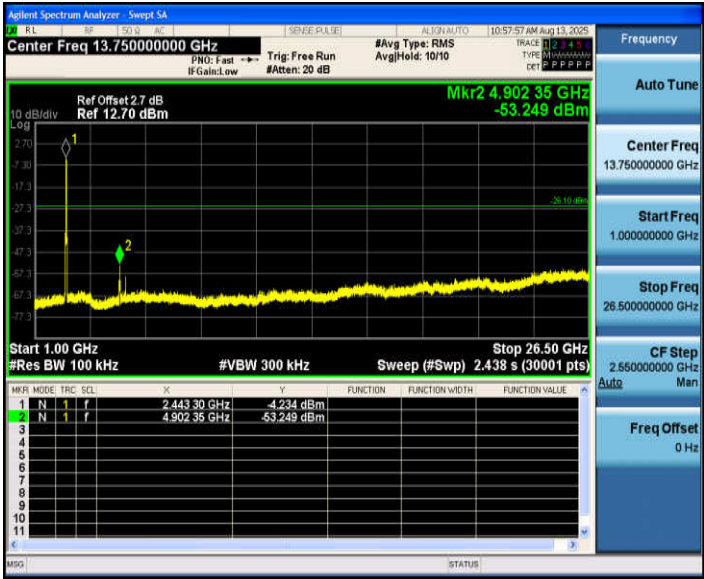


11N40ISO_Ant1_2452_0~Reference



11N40ISO_Ant1_2452_30~1000





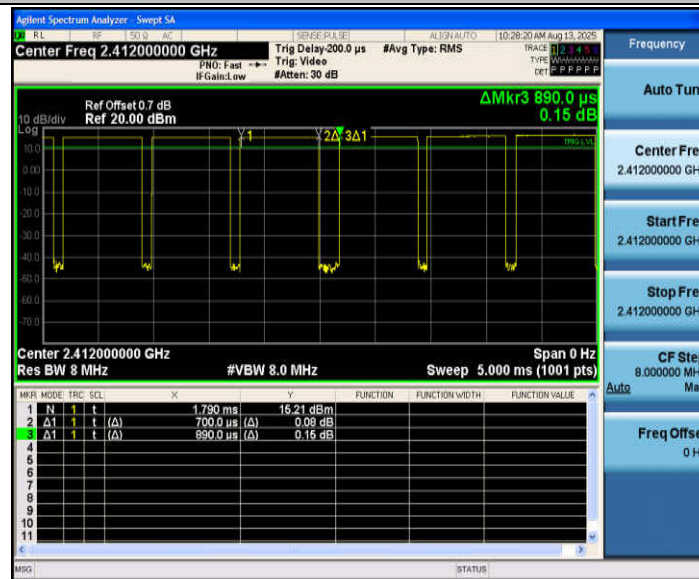
Appendix G: Duty Cycle

Test Result

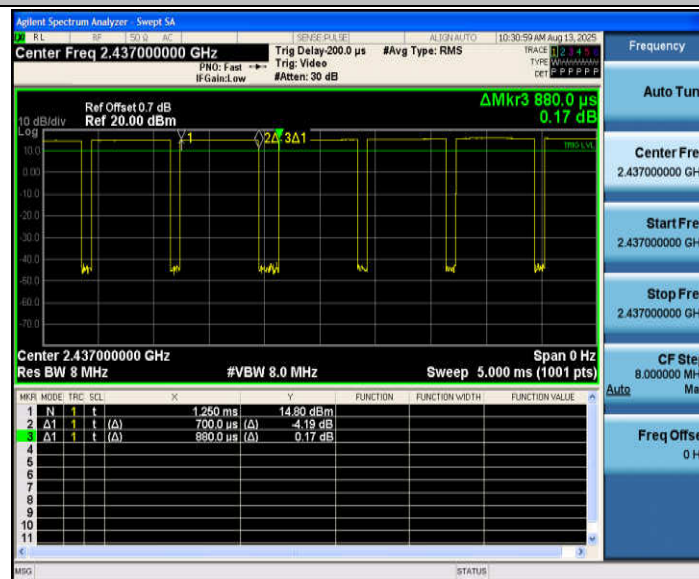
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	0.70	0.89	78.65
		2437	0.70	0.88	79.55
		2462	0.70	0.83	84.34
11G	Ant1	2412	0.11	0.30	36.67
		2437	0.11	0.29	37.93
		2462	0.11	0.28	39.29
11N20SISO	Ant1	2412	0.11	0.29	37.93
		2437	0.11	0.31	35.48
		2462	0.12	0.29	41.38
11N40SISO	Ant1	2422	0.07	0.24	29.17
		2437	0.07	0.26	26.92
		2452	0.07	0.26	26.92

Test Graphs

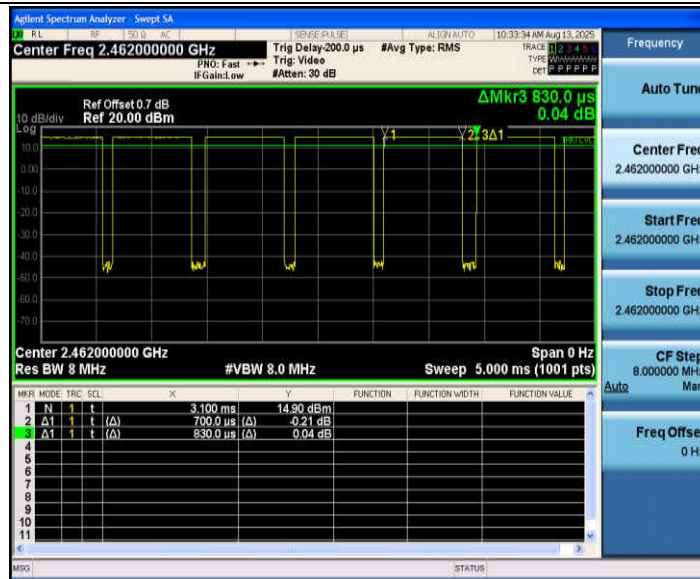
11B_Ant1_2412



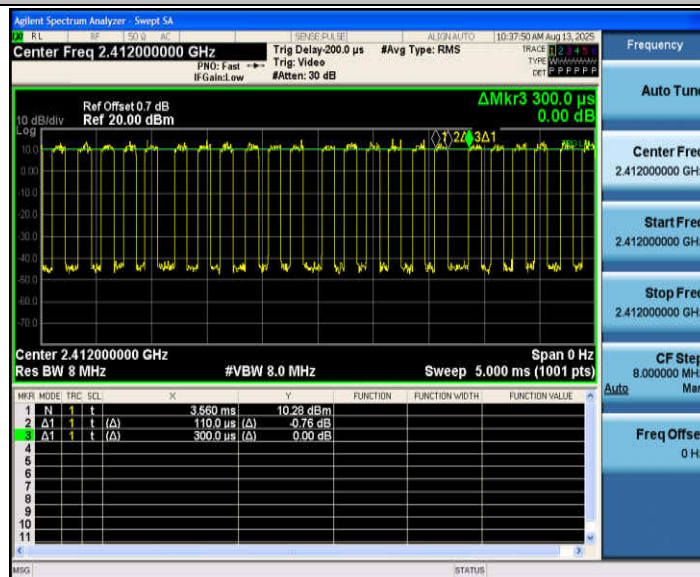
11B_Ant1_2437



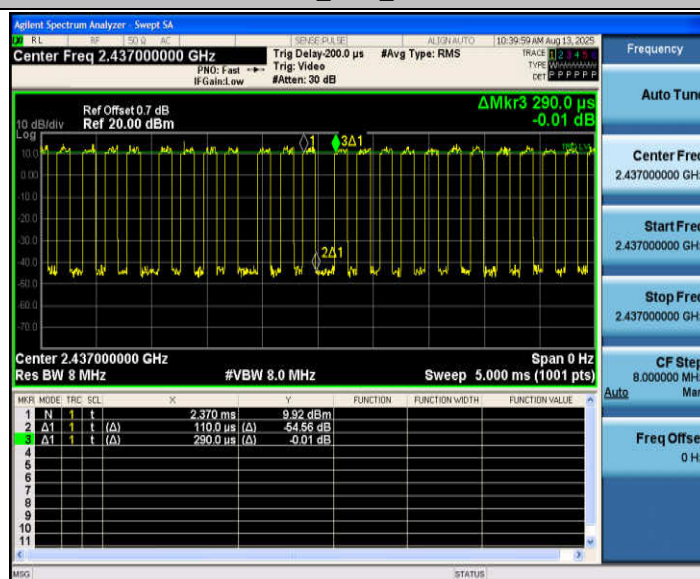
11B_Ant1_2462



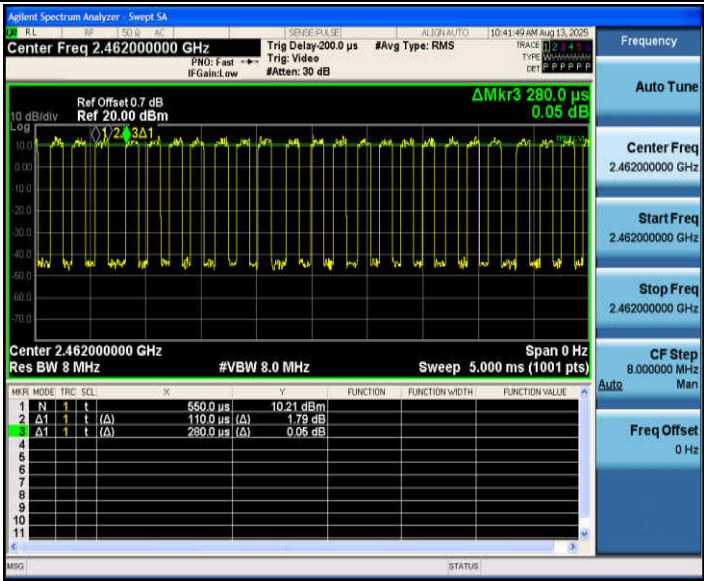
11G_Ant1_2412



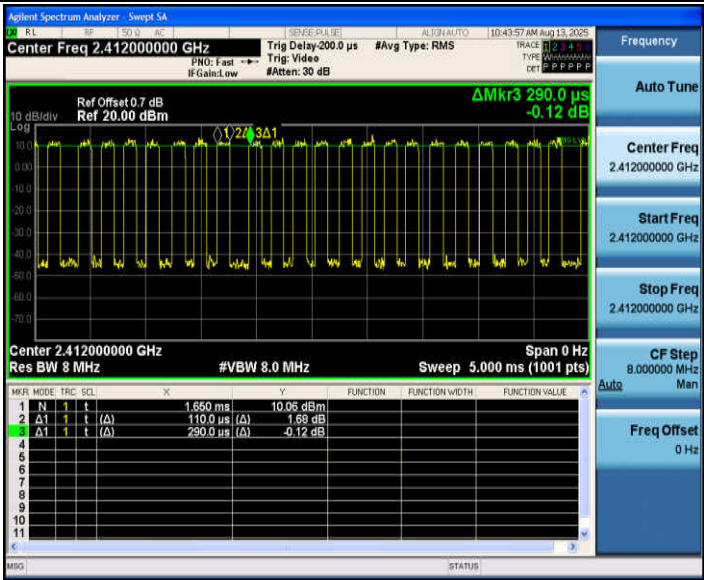
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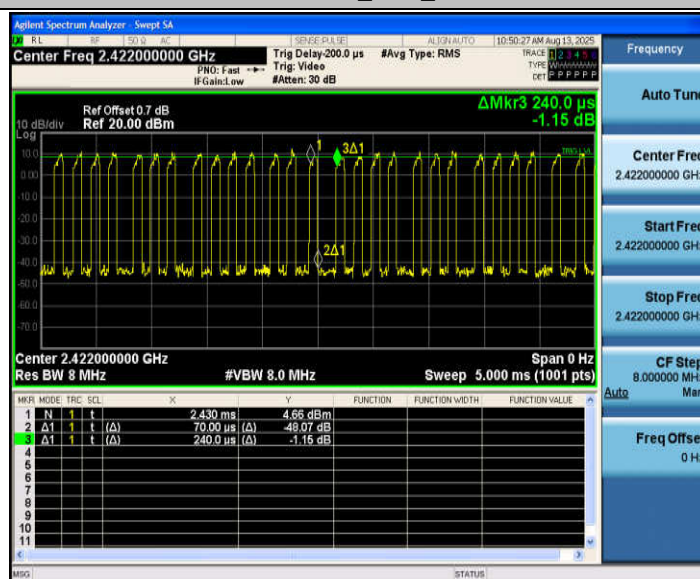
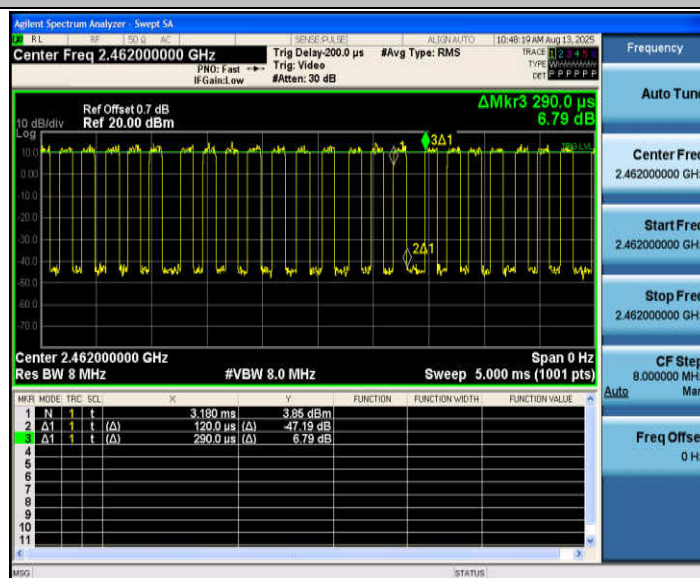
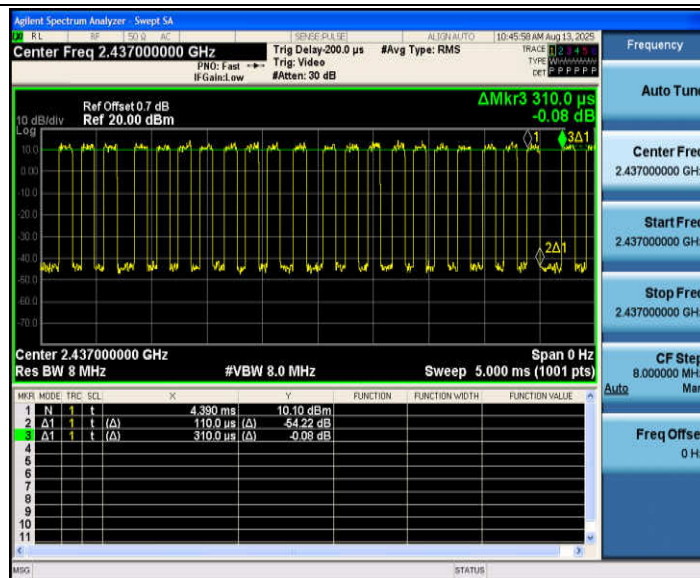
11G_Ant1_2462



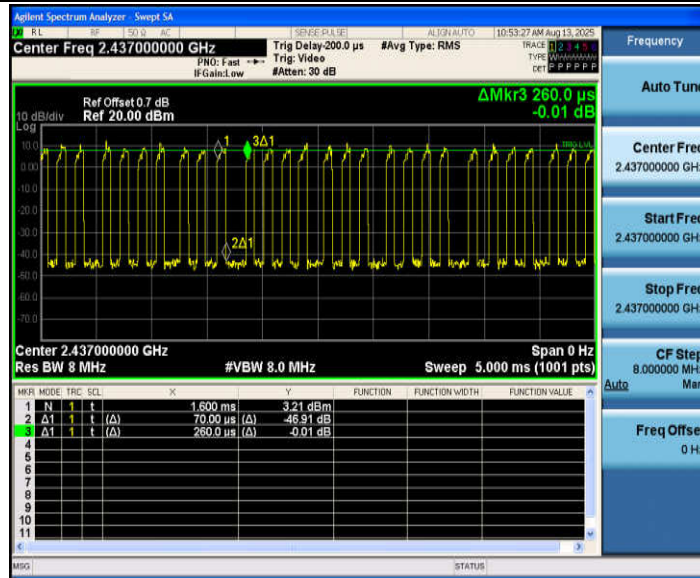
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

