

Appendix: 2.4G Wi-Fi

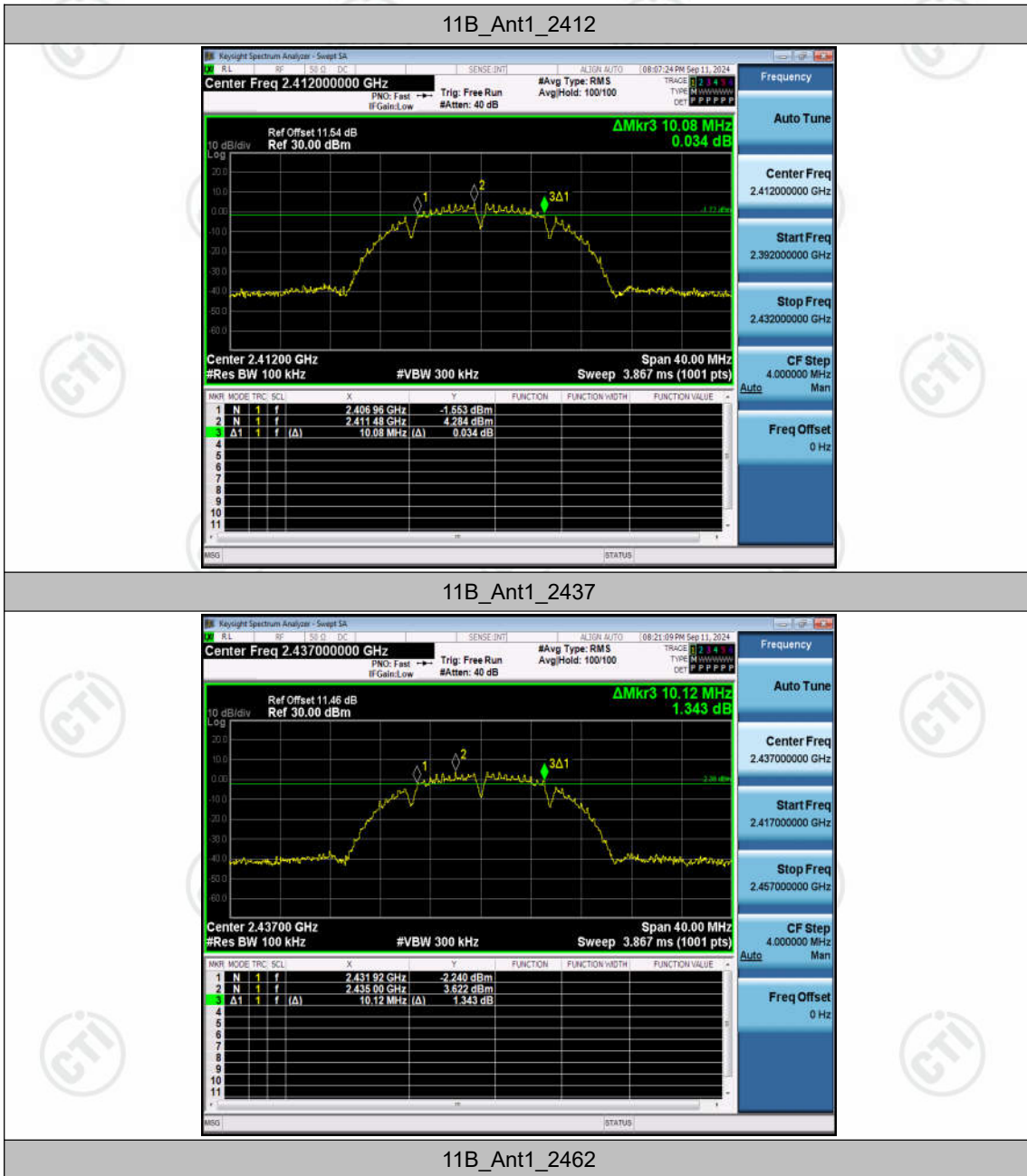
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Appendix A: DTS Bandwidth**Test Result**

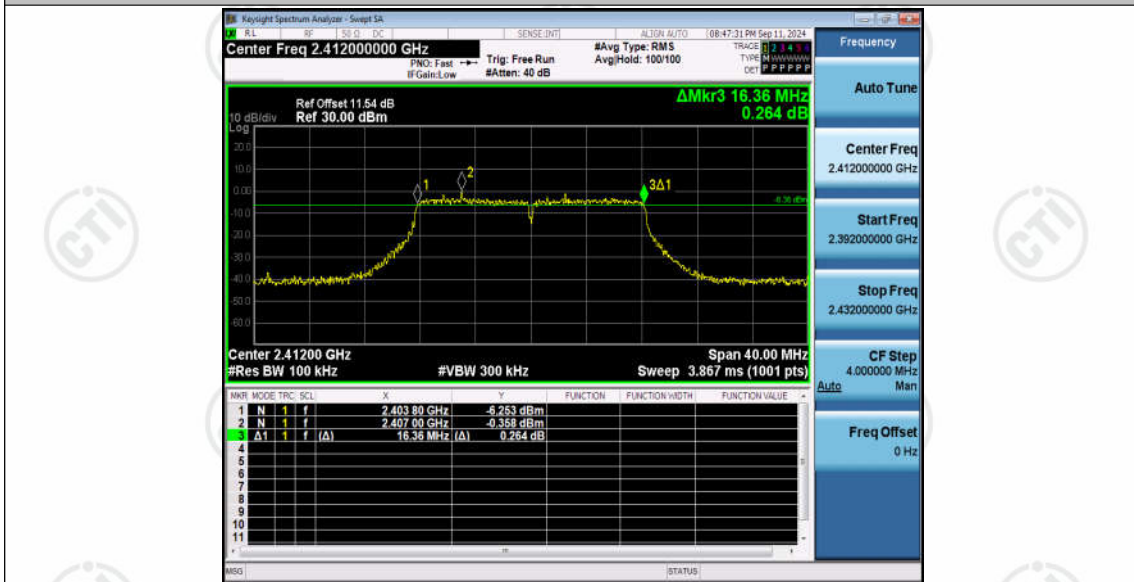
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.120	2431.920	2442.040	0.5	PASS
		2462	10.000	2456.960	2466.960	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SI SO	Ant1	2412	17.280	2403.480	2420.760	0.5	PASS
		2437	17.280	2428.480	2445.760	0.5	PASS
		2462	16.640	2453.480	2470.120	0.5	PASS
11N40SI SO	Ant1	2422	35.120	2404.400	2439.520	0.5	PASS
		2437	35.360	2419.480	2454.840	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS

Test Graphs

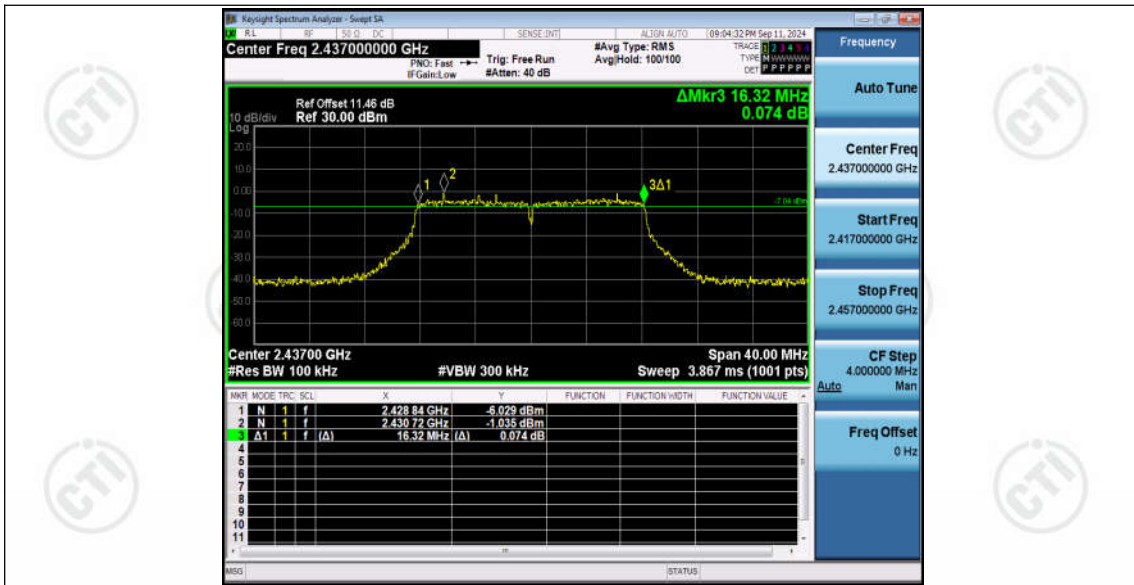




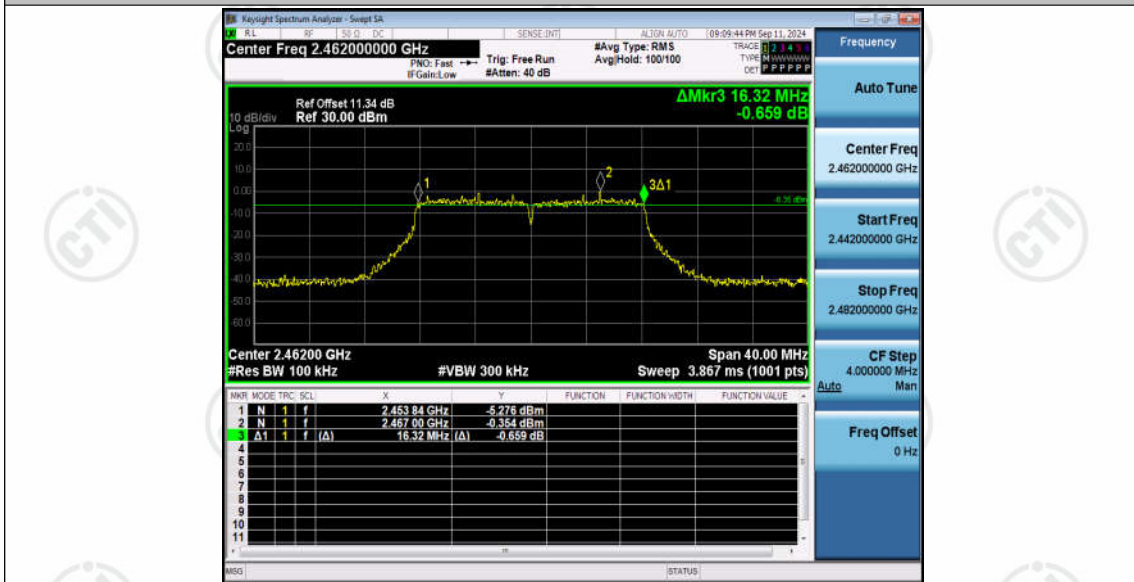
11G_Ant1_2412



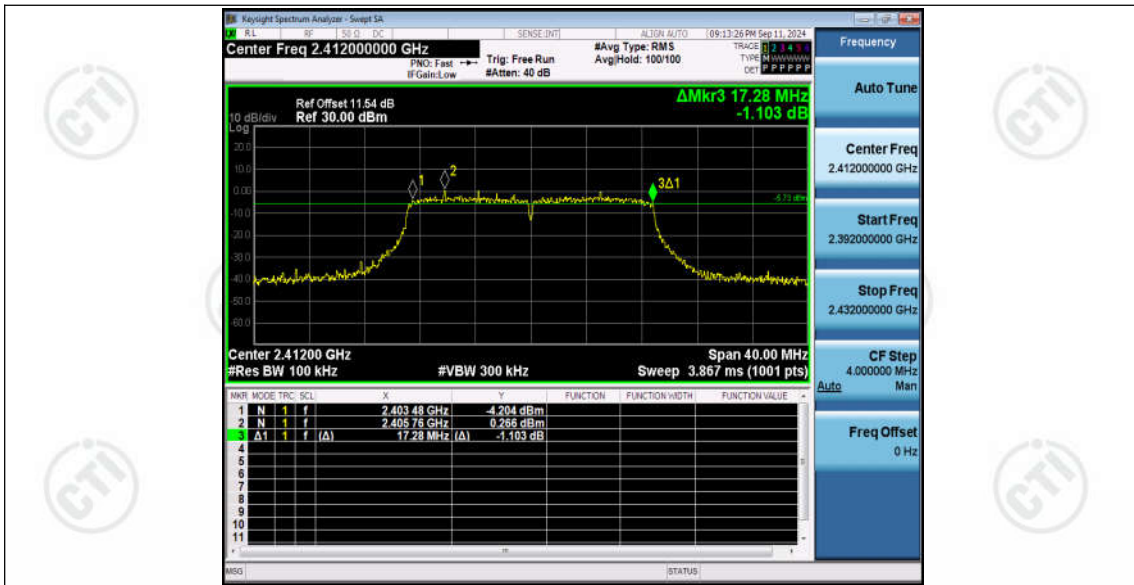
11G_Ant1_2437



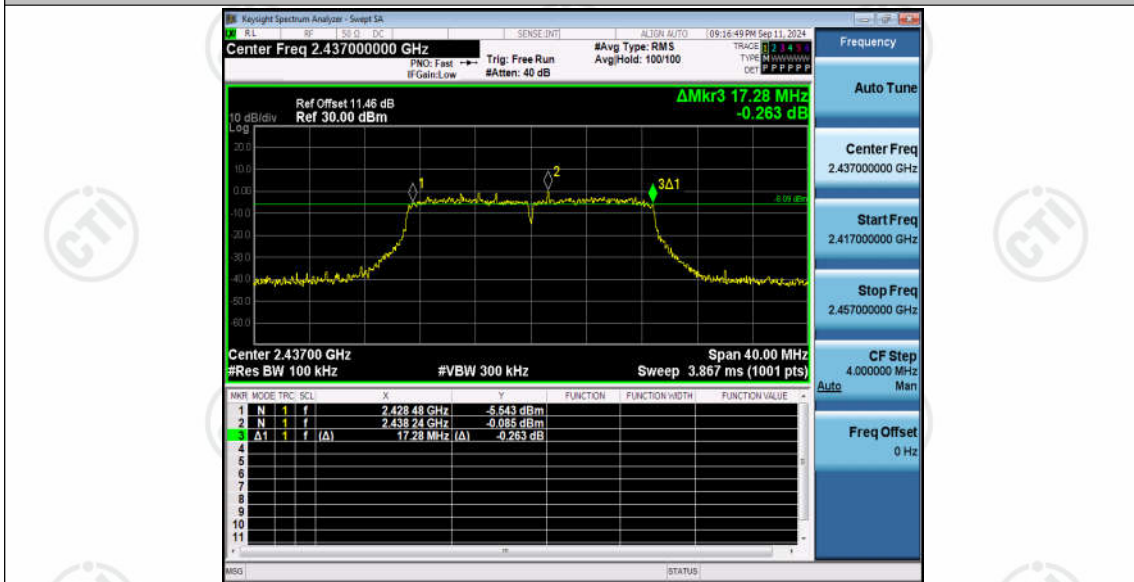
11G_Ant1_2462



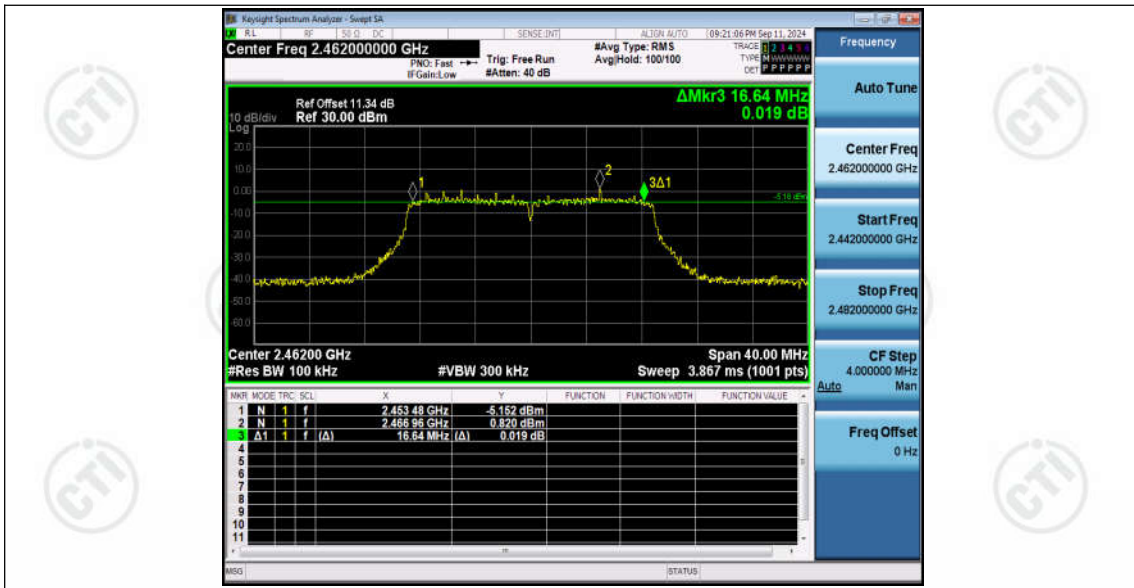
11N20SISO_Ant1_2412



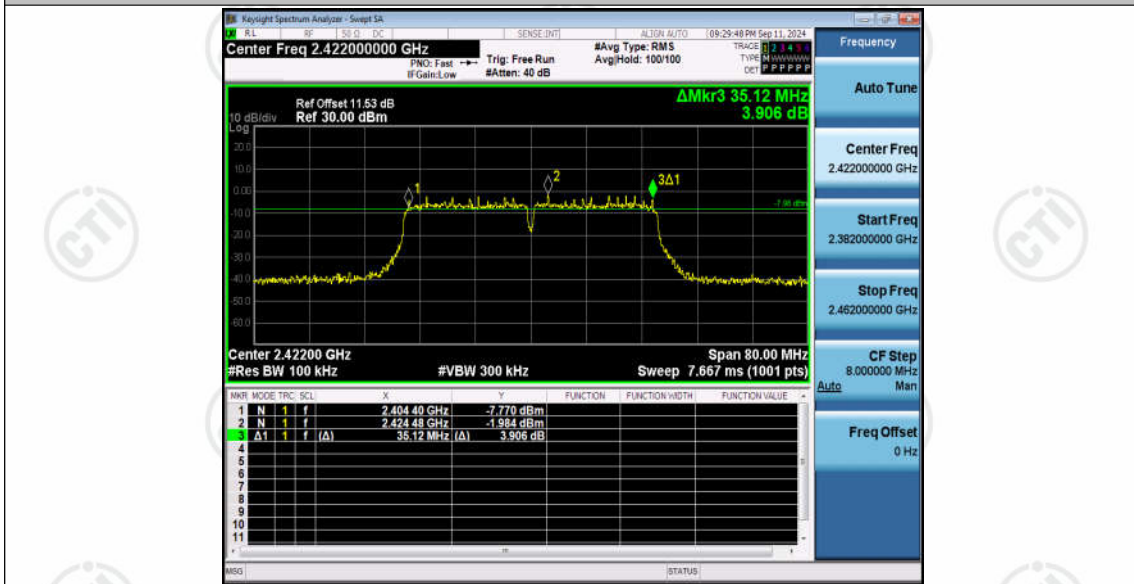
11N20SISO_Ant1_2437



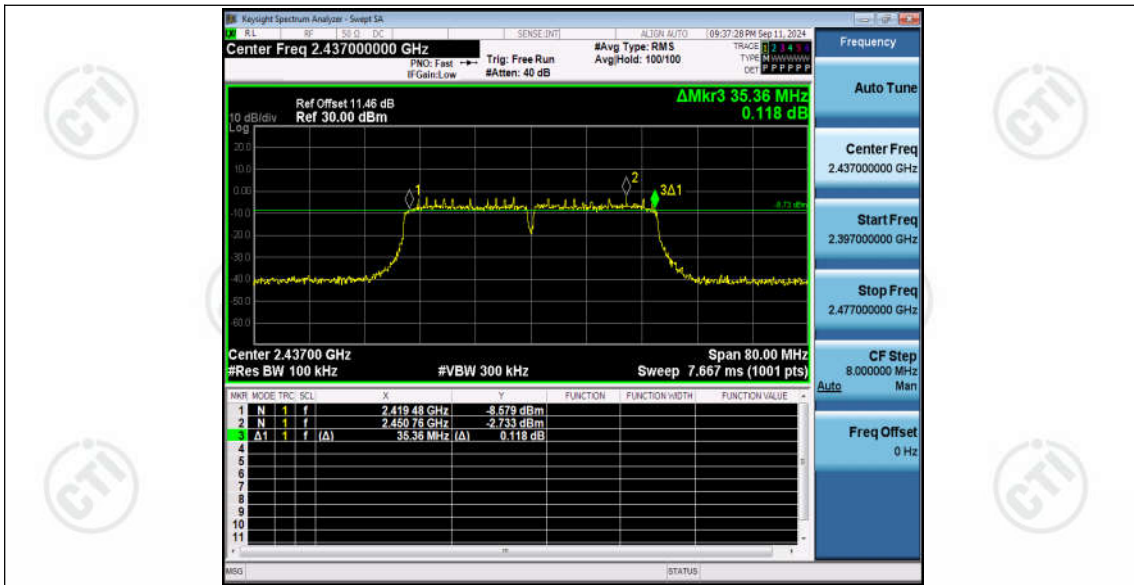
11N20SISO_Ant1_2462



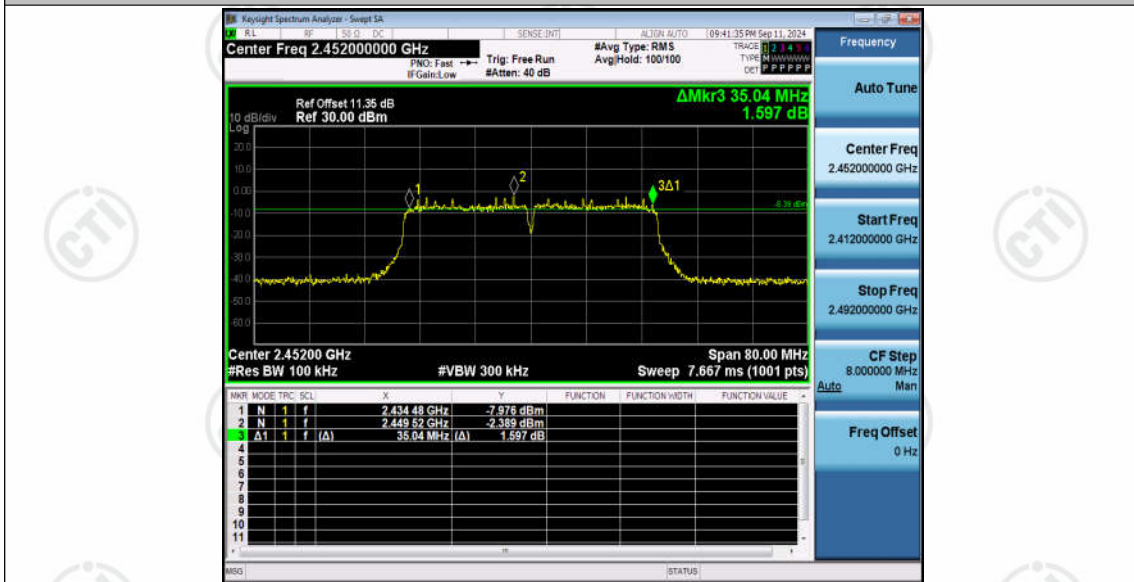
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

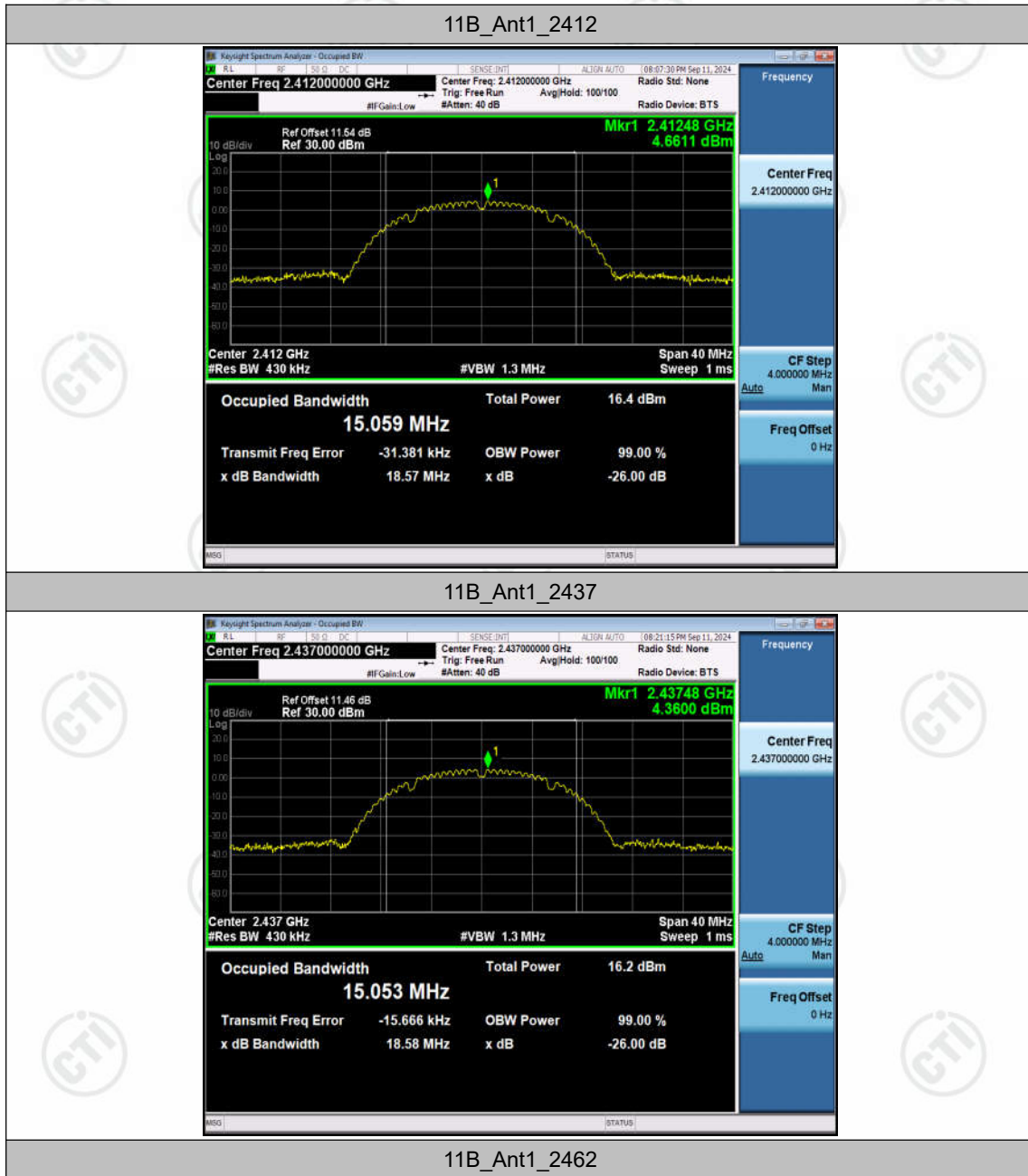


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	15.059	2404.4391	2419.4981	---	---
		2437	15.053	2429.4578	2444.5108	---	---
		2462	15.014	2454.4635	2469.4775	---	---
11G	Ant1	2412	16.978	2403.5405	2420.5185	---	---
		2437	16.979	2428.4988	2445.4778	---	---
		2462	17.005	2453.4862	2470.4912	---	---
11N20SI SO	Ant1	2412	17.922	2403.0766	2420.9986	---	---
		2437	17.955	2428.0675	2446.0225	---	---
		2462	17.866	2453.0915	2470.9575	---	---
11N40SI SO	Ant1	2422	36.253	2403.9145	2440.1675	---	---
		2437	36.239	2418.9369	2455.1759	---	---
		2452	36.185	2433.9915	2470.1765	---	---

Test Graphs





11G_Ant1_2412



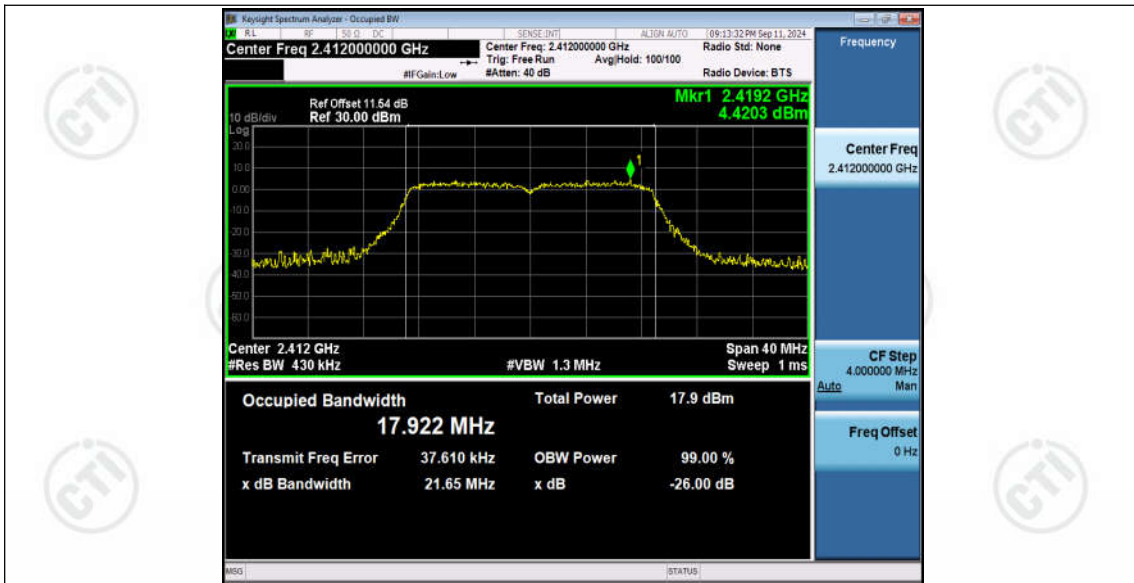
11G_Ant1_2437



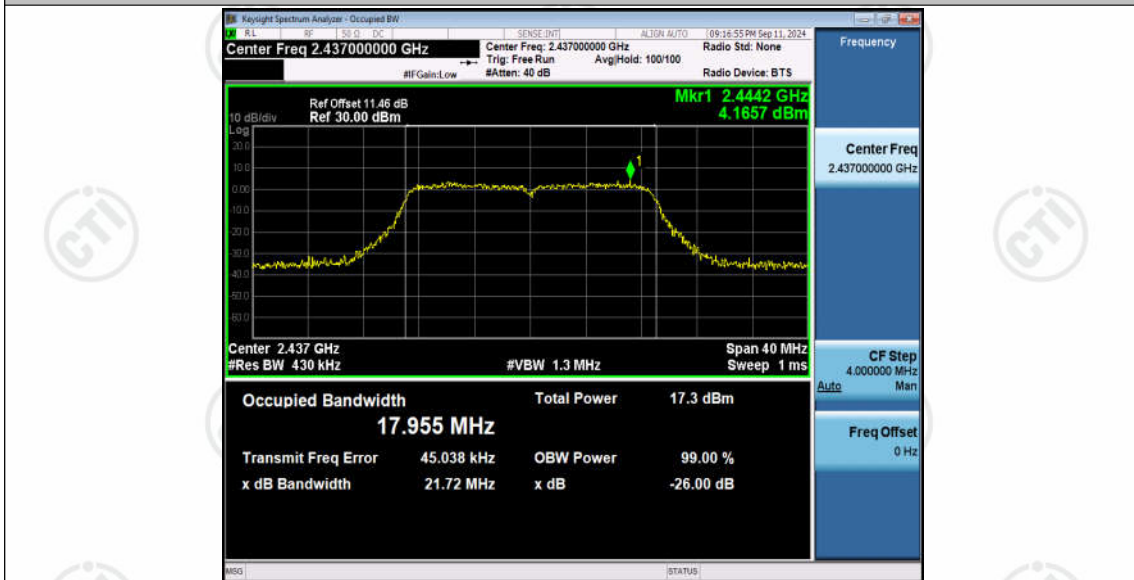
11G_Ant1_2462



11N20SISO_Ant1_2412



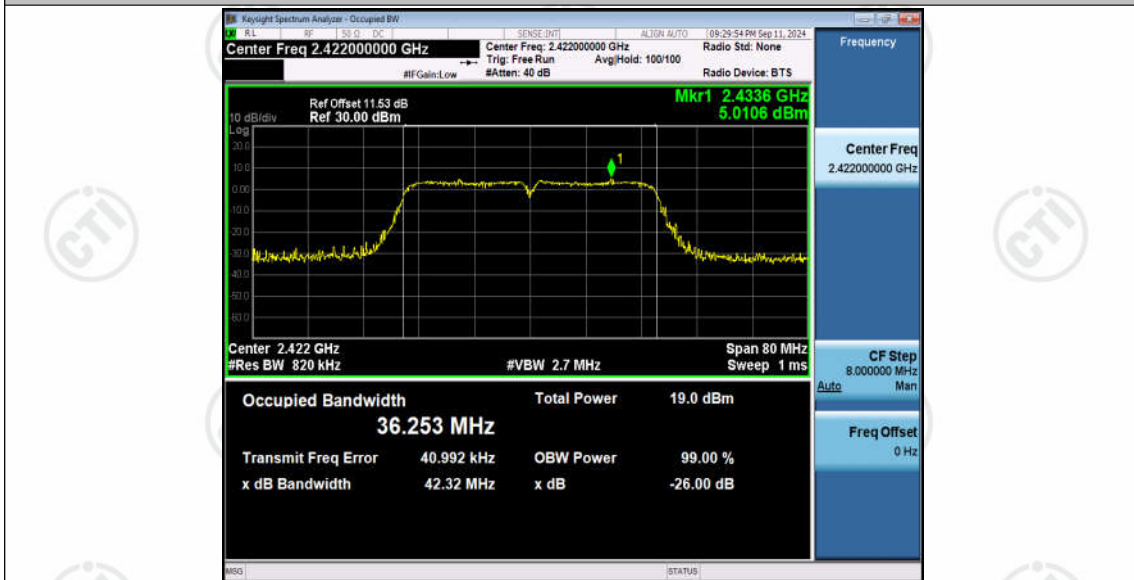
11N20SISO_Ant1_2437



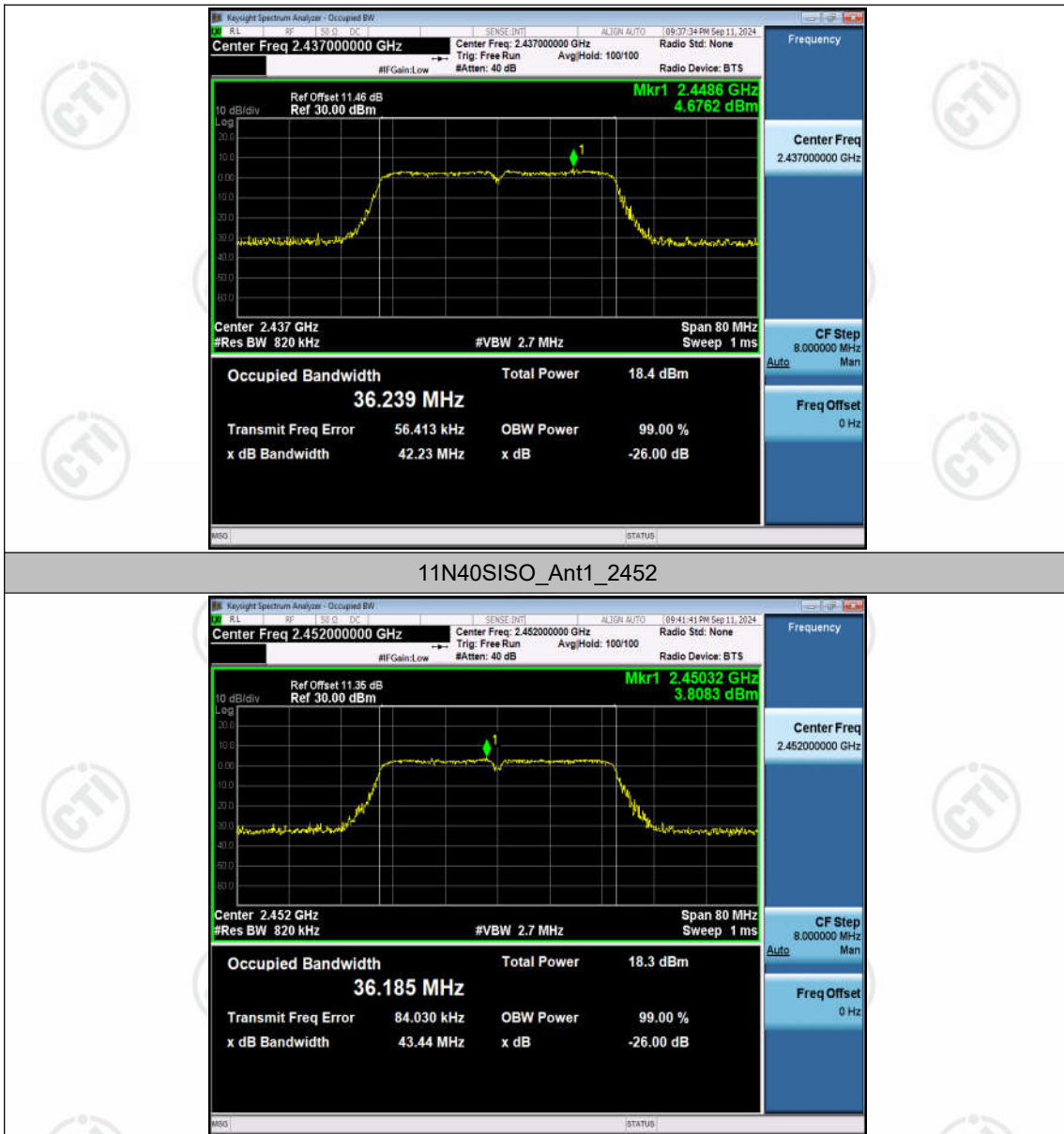
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequen cy[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	13.62	≤30.00	PASS
		2437	---	13.43	≤30.00	PASS
		2462	---	13.56	≤30.00	PASS
11G	Ant1	2412	---	11.39	≤30.00	PASS
		2437	---	11.74	≤30.00	PASS
		2462	---	11.02	≤30.00	PASS
11N20SISO	Ant1	2412	---	11.29	≤30.00	PASS
		2437	---	11.69	≤30.00	PASS
		2462	---	11.13	≤30.00	PASS
11N40SISO	Ant1	2422	---	12.64	≤30.00	PASS
		2437	---	12.07	≤30.00	PASS
		2452	---	12.06	≤30.00	PASS

Note:The Result has been added Duty Cycle Factor.

Appendix D: Maximum power spectral density

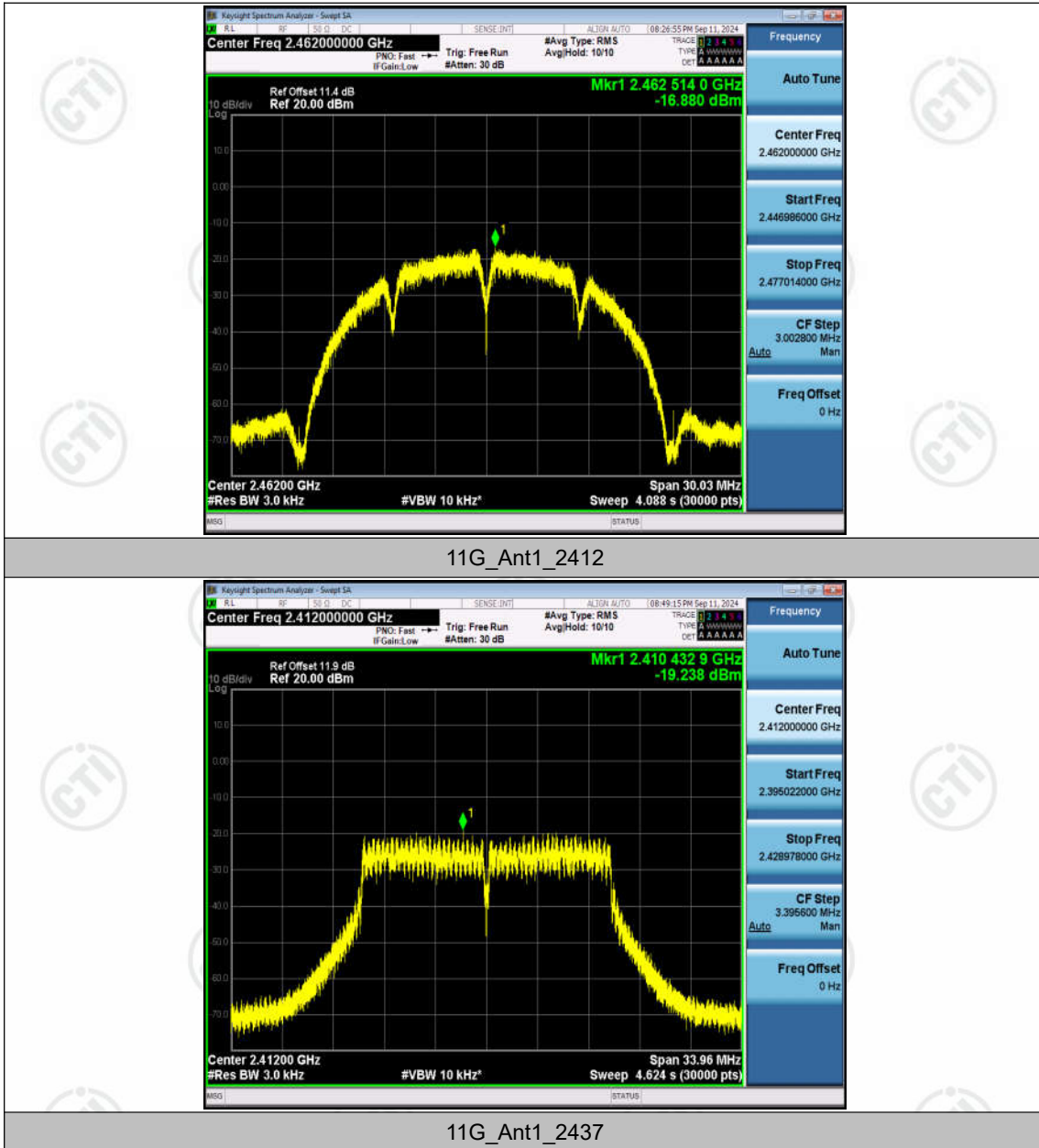
Test Result

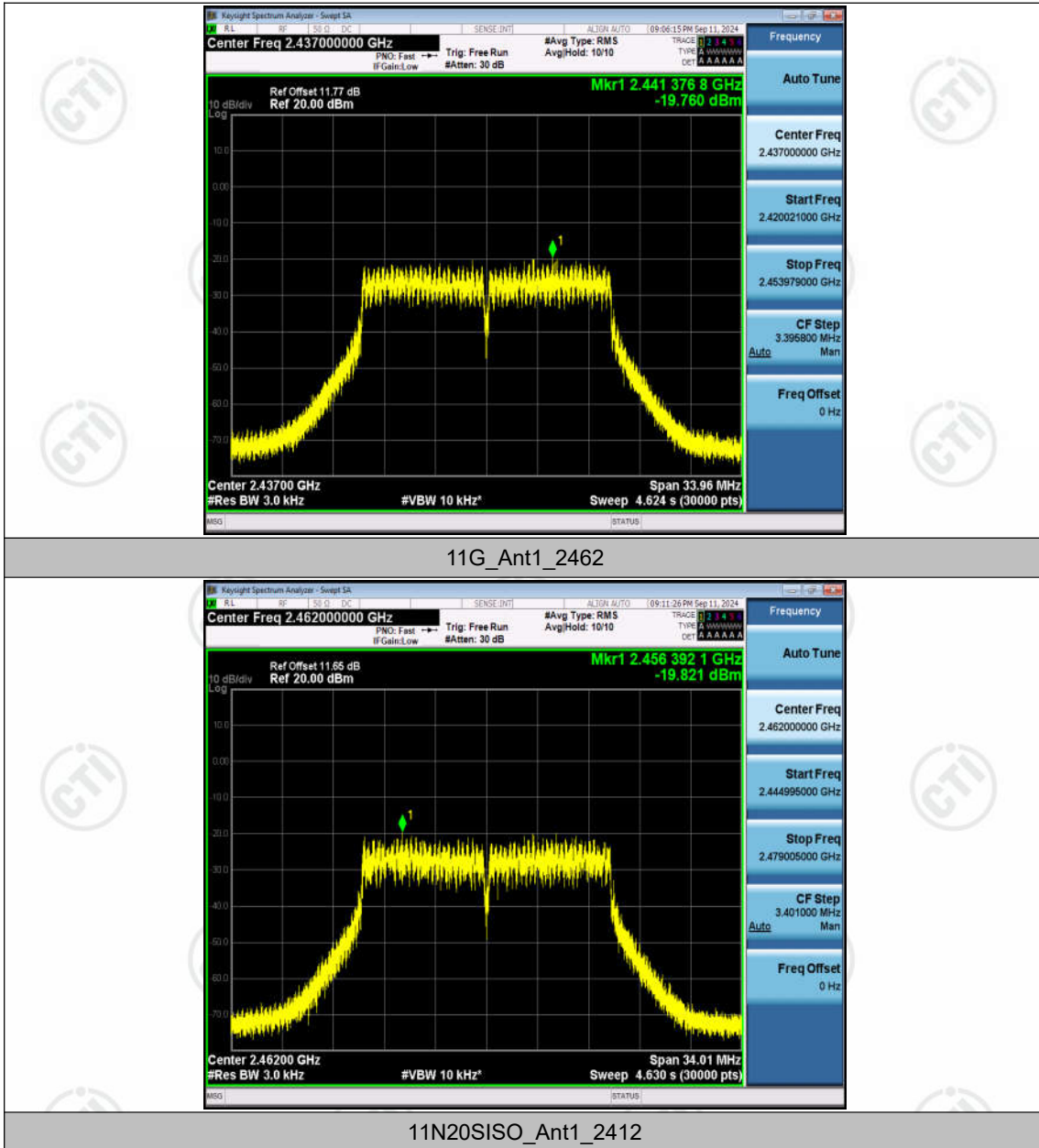
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.90	≤8.00	PASS
		2437	-16.95	≤8.00	PASS
		2462	-16.88	≤8.00	PASS
11G	Ant1	2412	-19.24	≤8.00	PASS
		2437	-19.76	≤8.00	PASS
		2462	-19.82	≤8.00	PASS
11N20SISO	Ant1	2412	-17.44	≤8.00	PASS
		2437	-18.69	≤8.00	PASS
		2462	-19.22	≤8.00	PASS
11N40SISO	Ant1	2422	-21.28	≤8.00	PASS
		2437	-21.08	≤8.00	PASS
		2452	-20.92	≤8.00	PASS

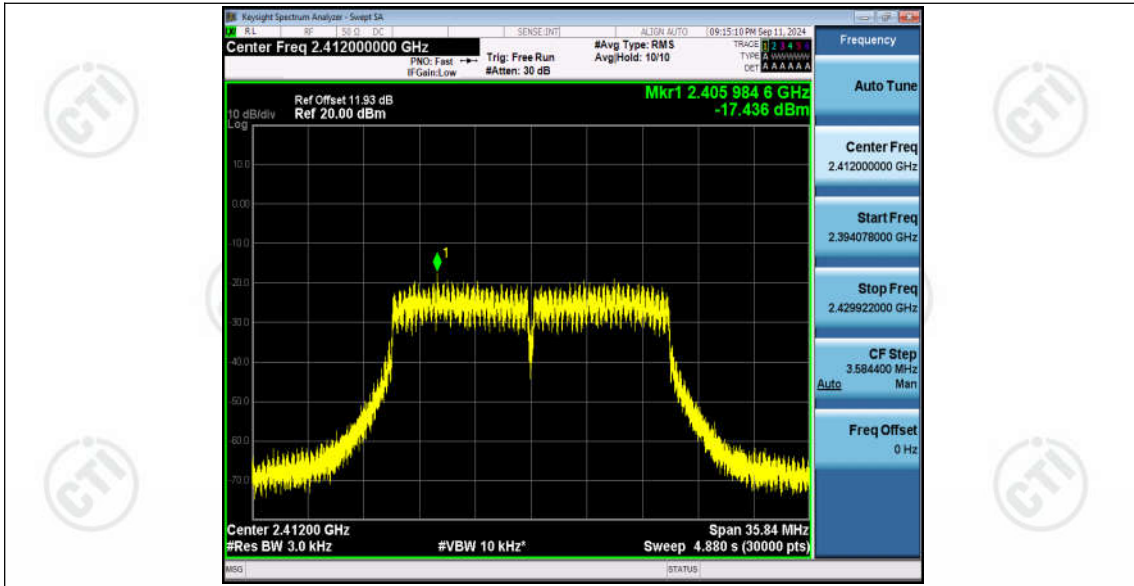
Note:The Result has been added Duty Cycle Factor.

Test Graphs

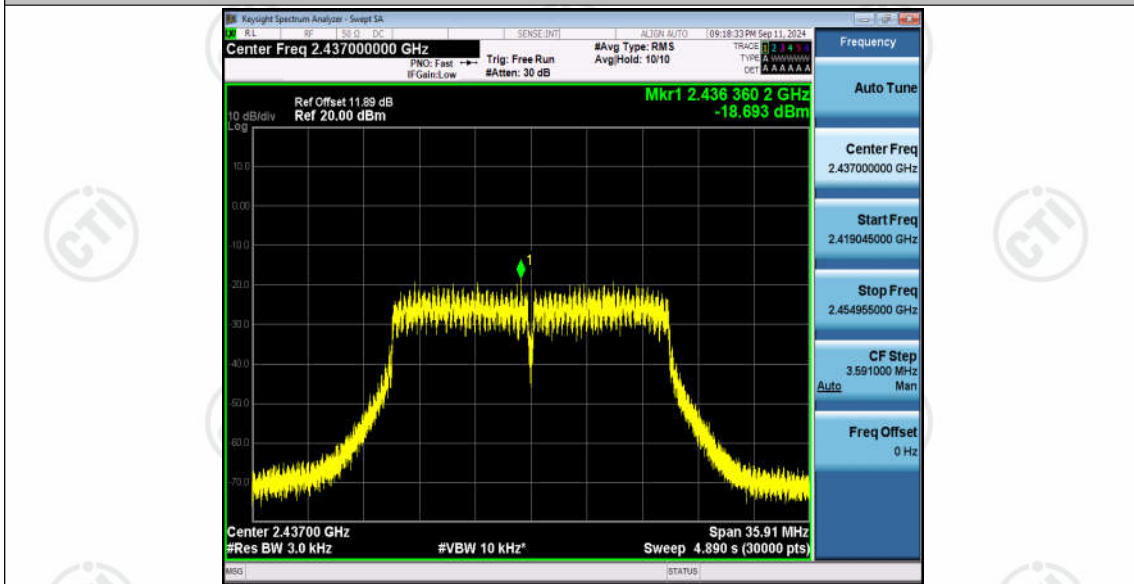




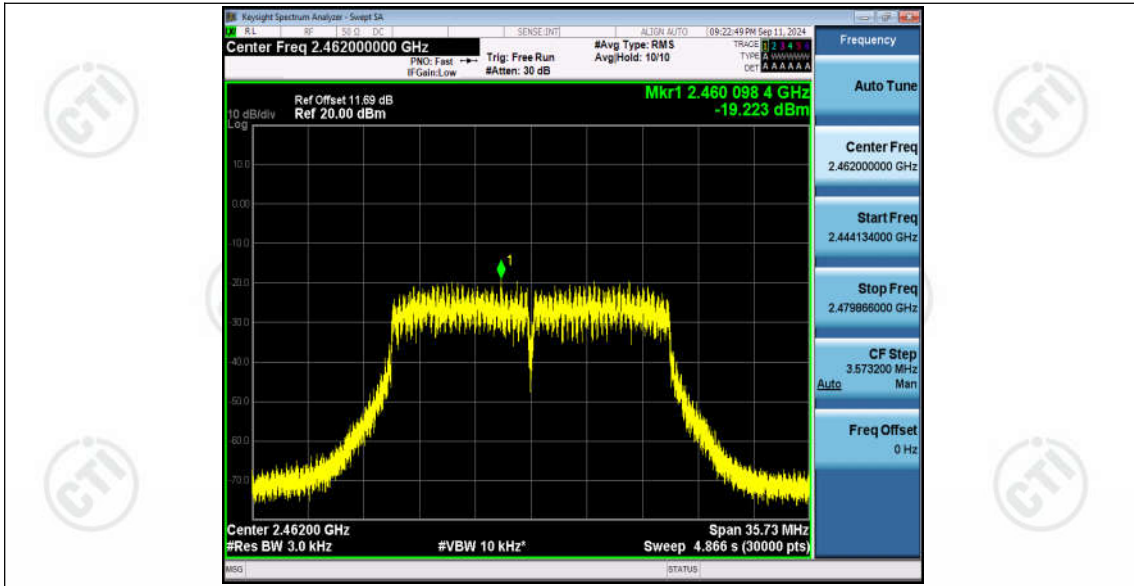




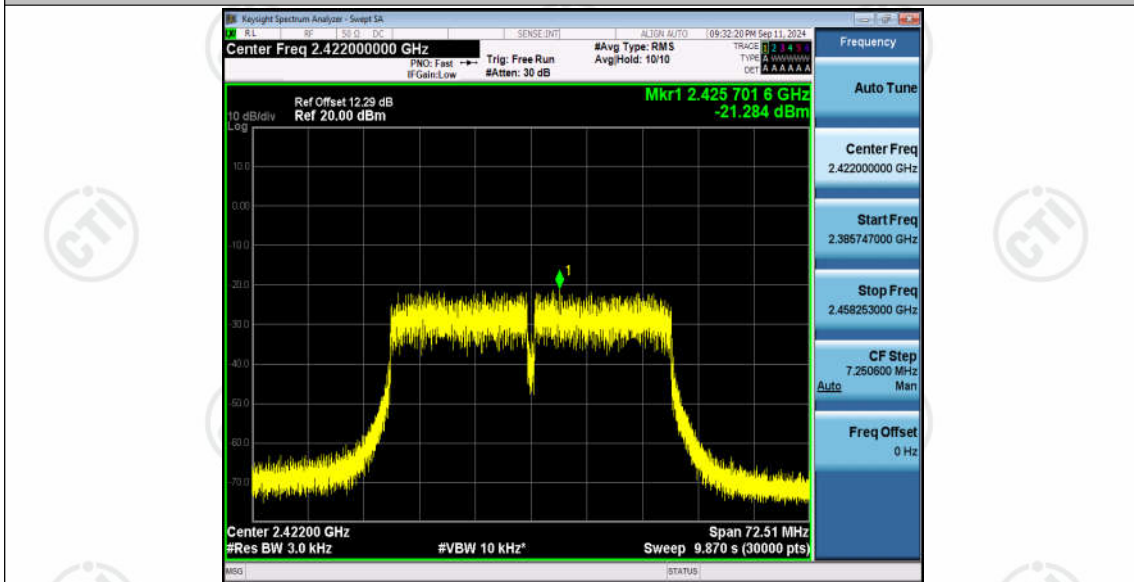
11N20SISO_Ant1_2437



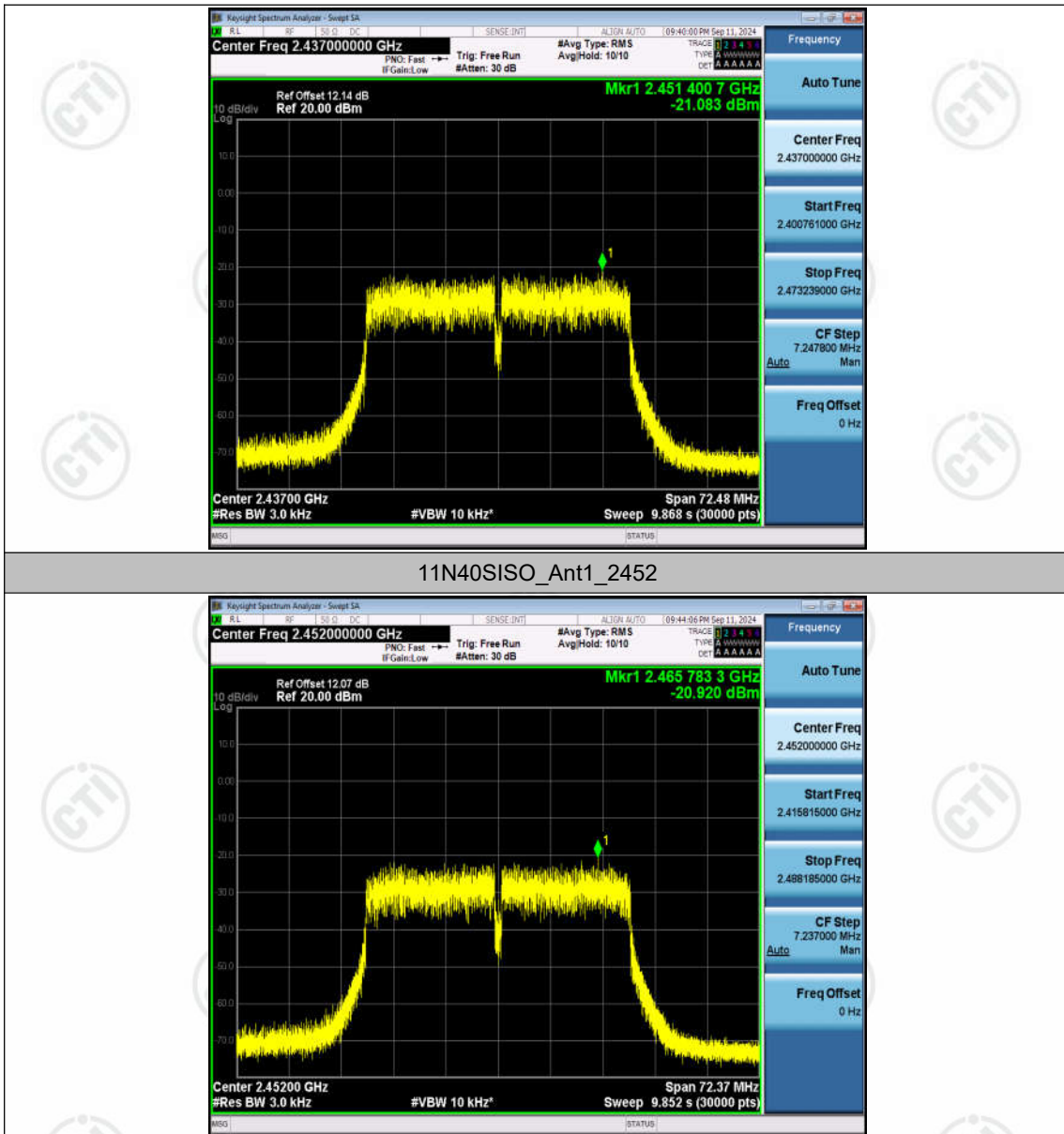
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



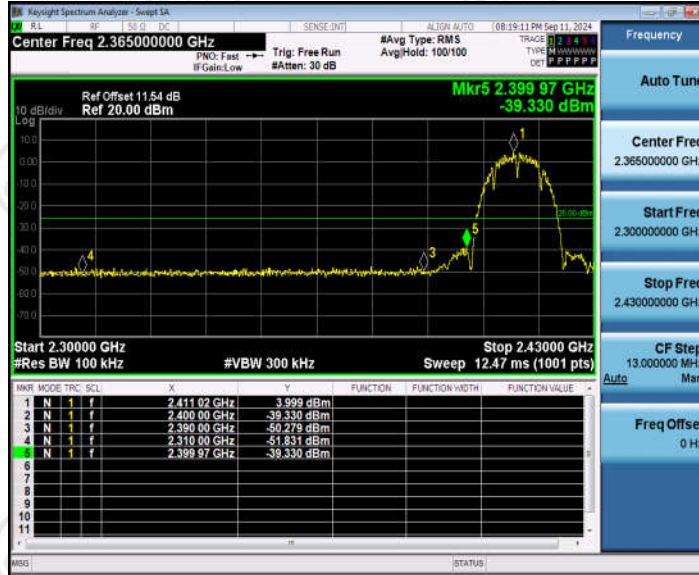
Appendix E: Band edge measurements

Test Result

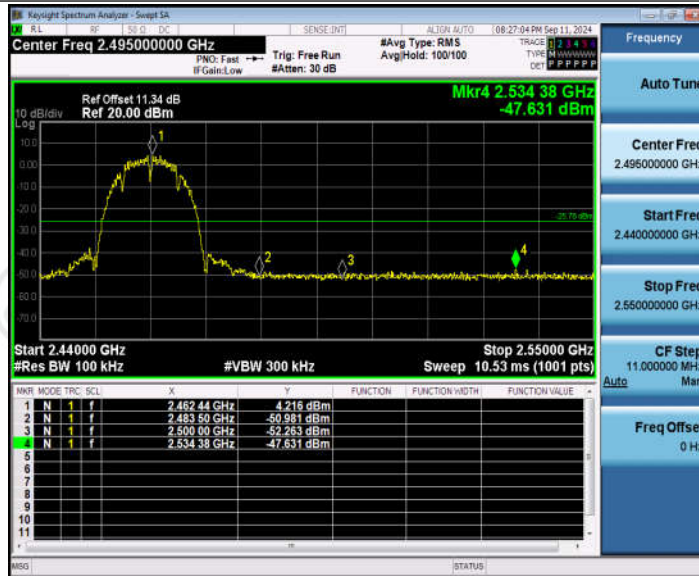
Test Mode	Antenna	Channel Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.00	-39.33	≤-26	PASS
		High	2462	4.22	-47.63	≤-25.78	PASS
11G	Ant1	Low	2412	-0.03	-39.39	≤-30.03	PASS
		High	2462	-0.71	-47.93	≤-30.71	PASS
11N20SI SO	Ant1	Low	2412	0.68	-33.72	≤-29.32	PASS
		High	2462	1.32	-47.65	≤-28.68	PASS
11N40SI SO	Ant1	Low	2422	-1.97	-36.96	≤-31.97	PASS
		High	2452	-2.33	-46.22	≤-32.33	PASS

Test Graphs

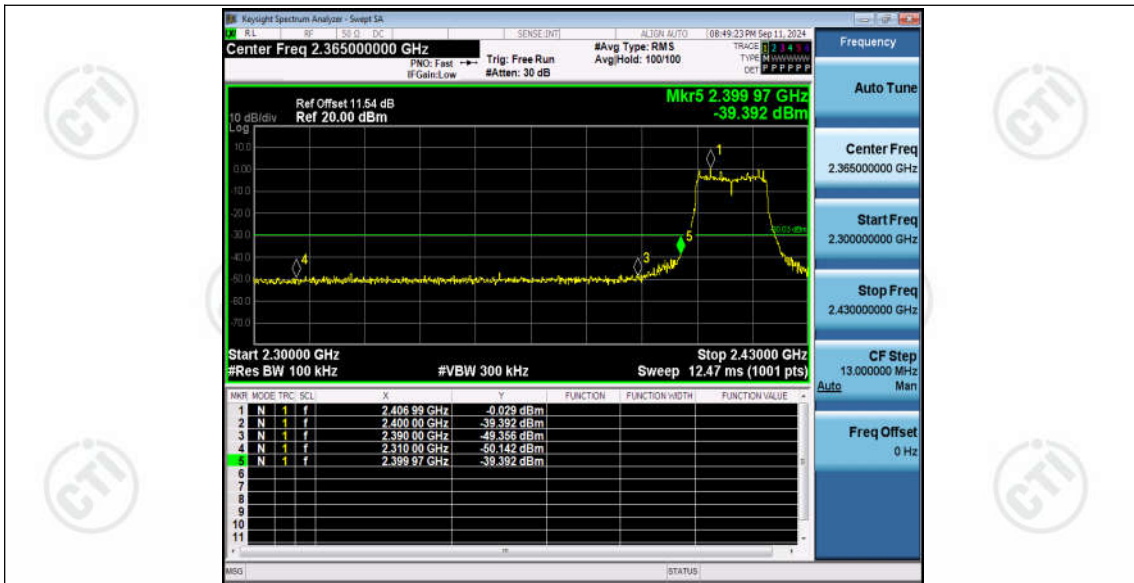
11B_Ant1_Low_2412



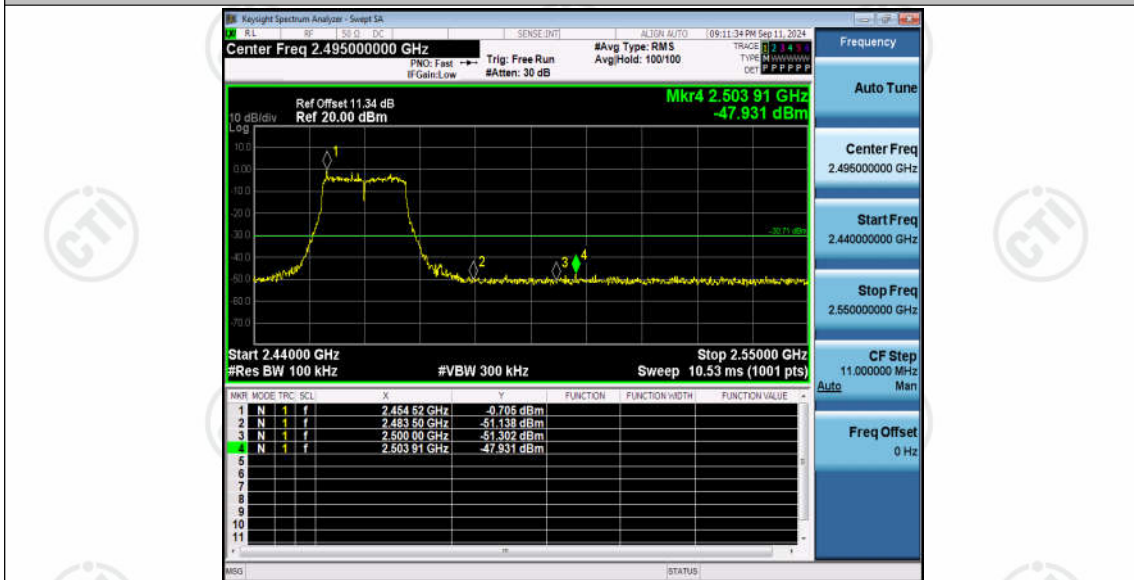
11B_Ant1_High_2462



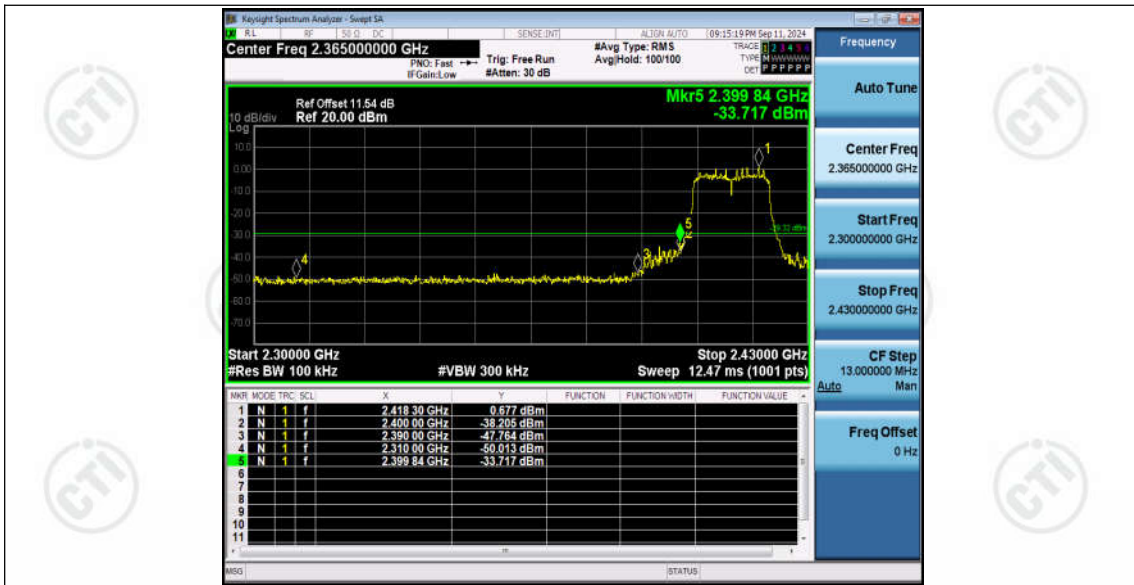
11G_Ant1_Low_2412



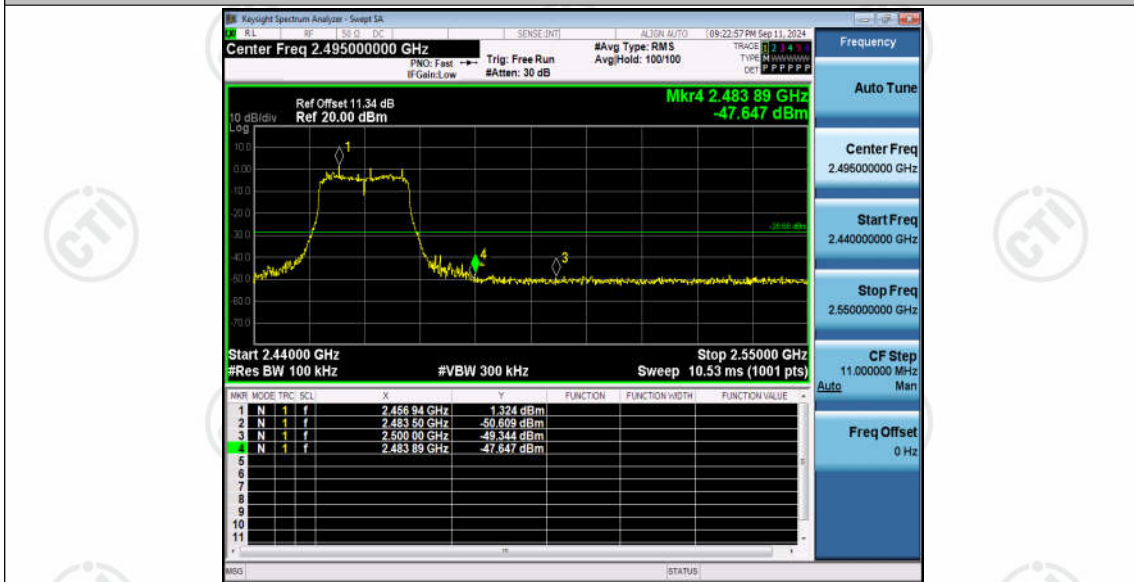
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



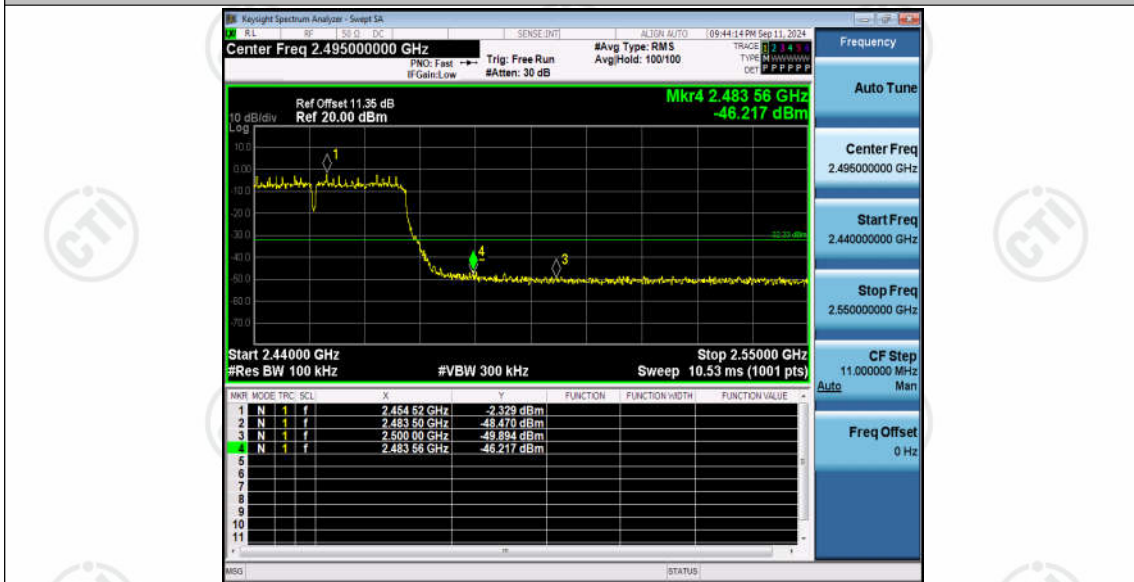
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

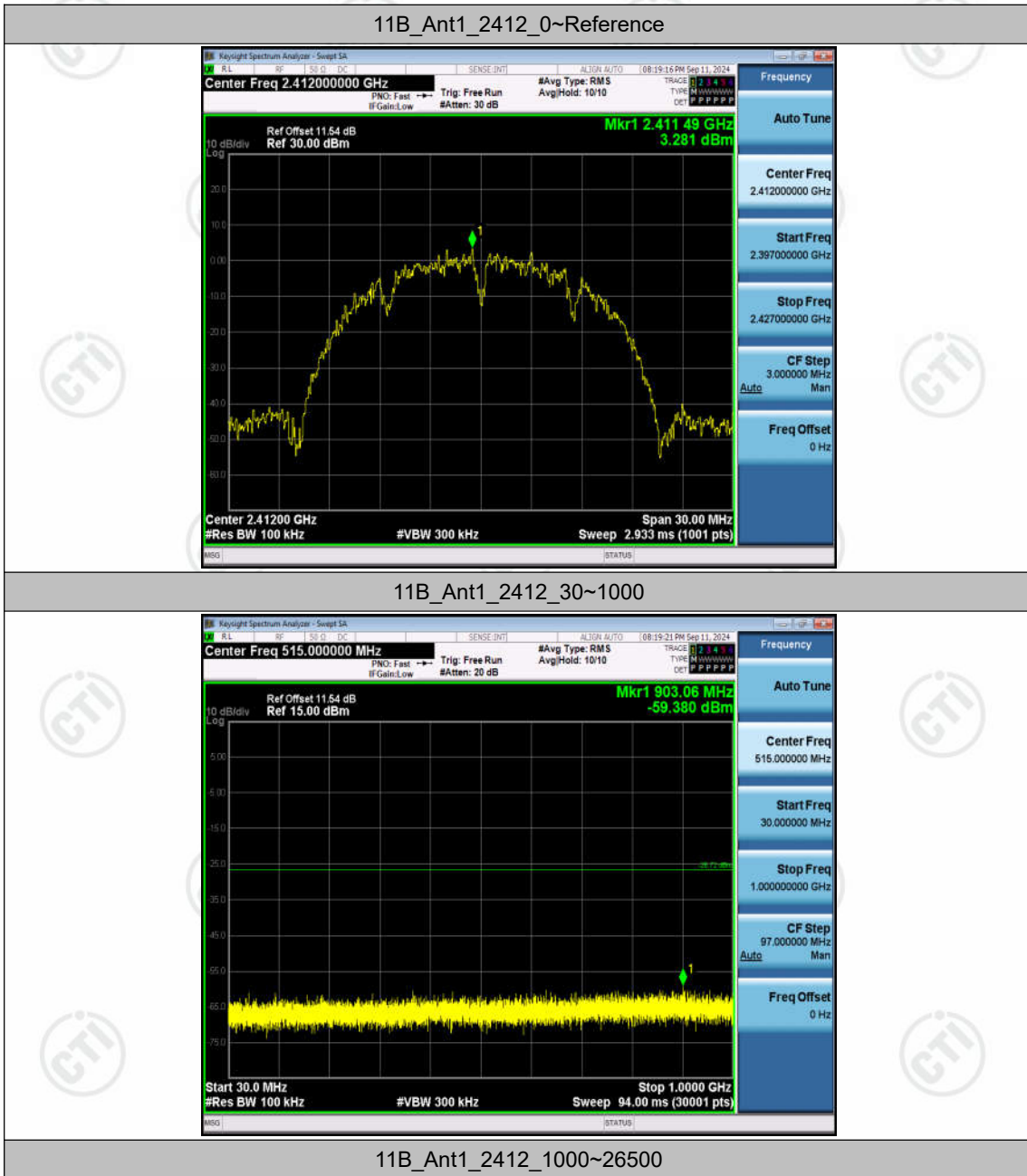


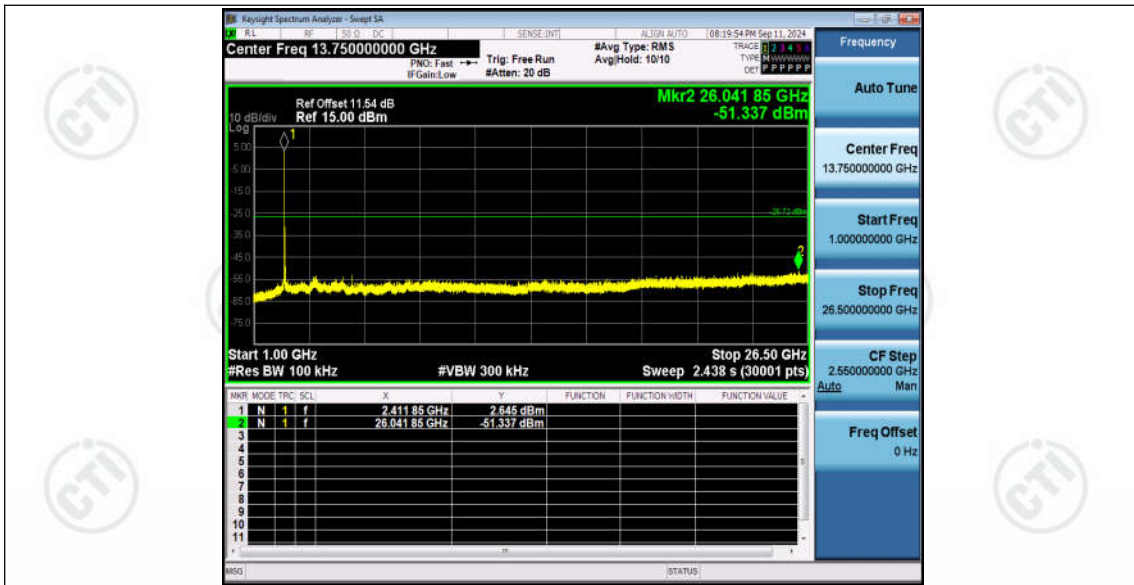
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.28	3.28	---	PASS
			30~1000	3.28	-59.38	≤-26.72	PASS
			1000~26500	3.28	-51.34	≤-26.72	PASS
		2437	Reference	3.47	3.47	---	PASS
			30~1000	3.47	-59.23	≤-26.53	PASS
			1000~26500	3.47	-50.46	≤-26.53	PASS
		2462	Reference	3.31	3.31	---	PASS
			30~1000	3.31	-59.15	≤-26.69	PASS
			1000~26500	3.31	-51.35	≤-26.69	PASS
11G	Ant1	2412	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-59.18	≤-30.53	PASS
			1000~26500	-0.53	-51.75	≤-30.53	PASS
		2437	Reference	-3.69	-3.69	---	PASS
			30~1000	-3.69	-59.75	≤-33.69	PASS
			1000~26500	-3.69	-51.46	≤-33.69	PASS
		2462	Reference	-3.91	-3.91	---	PASS
			30~1000	-3.91	-58.45	≤-33.91	PASS
			1000~26500	-3.91	-51.68	≤-33.91	PASS
11N20SI SO	Ant1	2412	Reference	-0.16	-0.16	---	PASS
			30~1000	-0.16	-59.45	≤-30.16	PASS
			1000~26500	-0.16	-51.64	≤-30.16	PASS
		2437	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-59.87	≤-30.17	PASS
			1000~26500	-0.17	-51.81	≤-30.17	PASS
		2462	Reference	-0.66	-0.66	---	PASS
			30~1000	-0.66	-59.98	≤-30.66	PASS
			1000~26500	-0.66	-52.26	≤-30.66	PASS
11N40SI SO	Ant1	2422	Reference	-2.46	-2.46	---	PASS
			30~1000	-2.46	-59.51	≤-32.46	PASS
			1000~26500	-2.46	-51.77	≤-32.46	PASS
		2437	Reference	-2.69	-2.69	---	PASS
			30~1000	-2.69	-59.31	≤-32.69	PASS
			1000~26500	-2.69	-51.37	≤-32.69	PASS
		2452	Reference	-4.68	-4.68	---	PASS
			30~1000	-4.68	-59.41	≤-34.68	PASS
			1000~26500	-4.68	-51.97	≤-34.68	PASS

Test Graphs

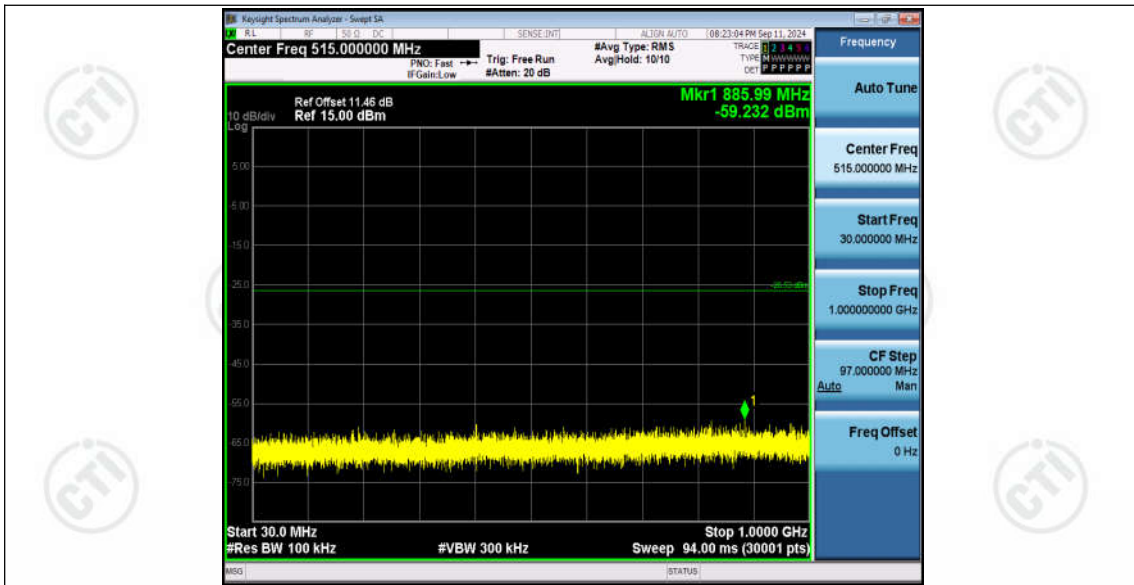




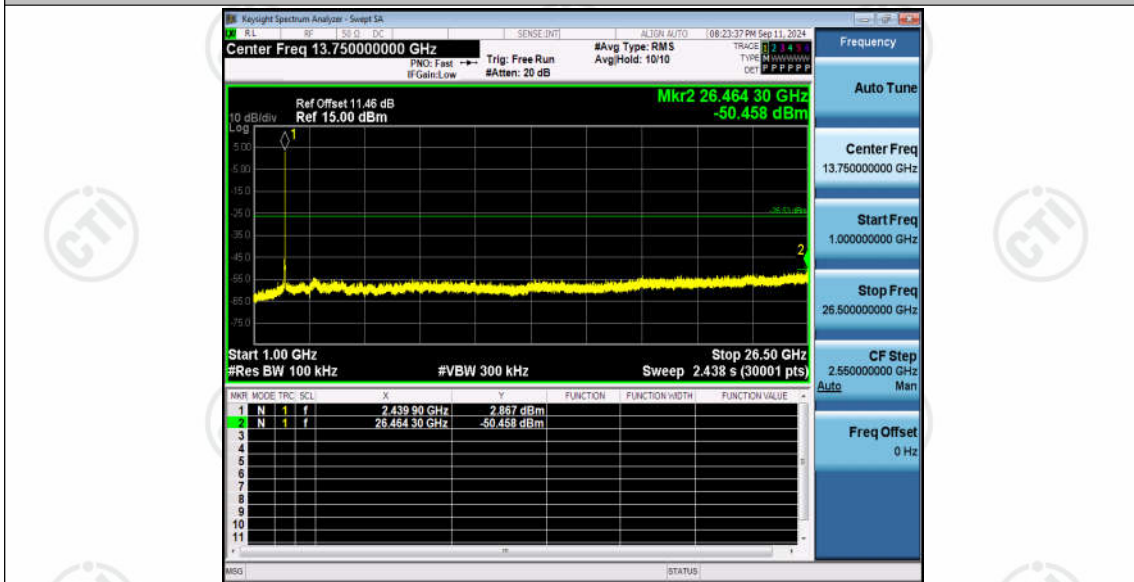
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



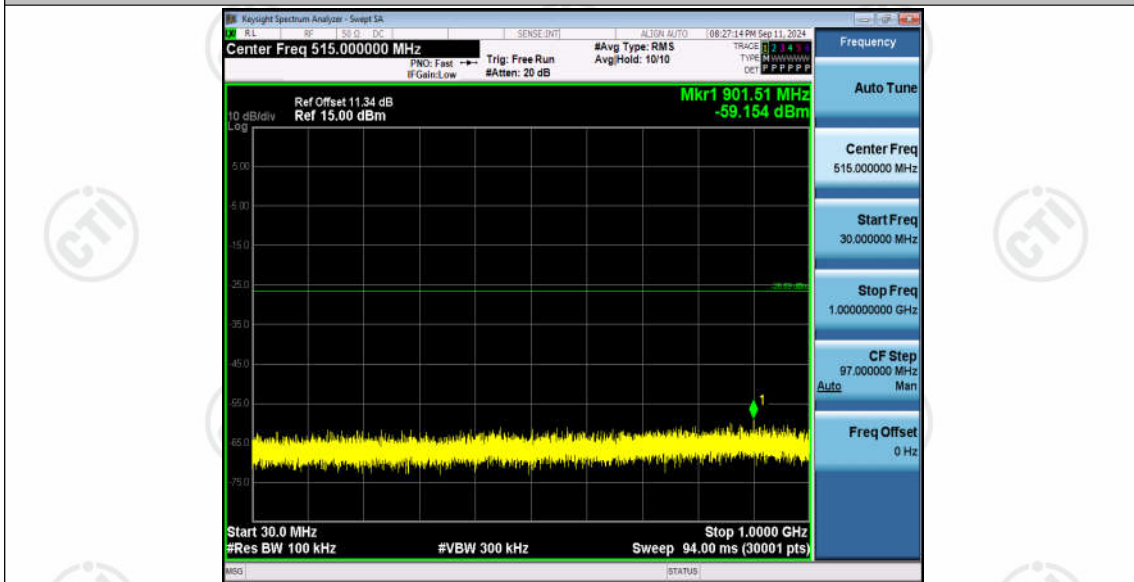
11B_Ant1_2437_1000~26500



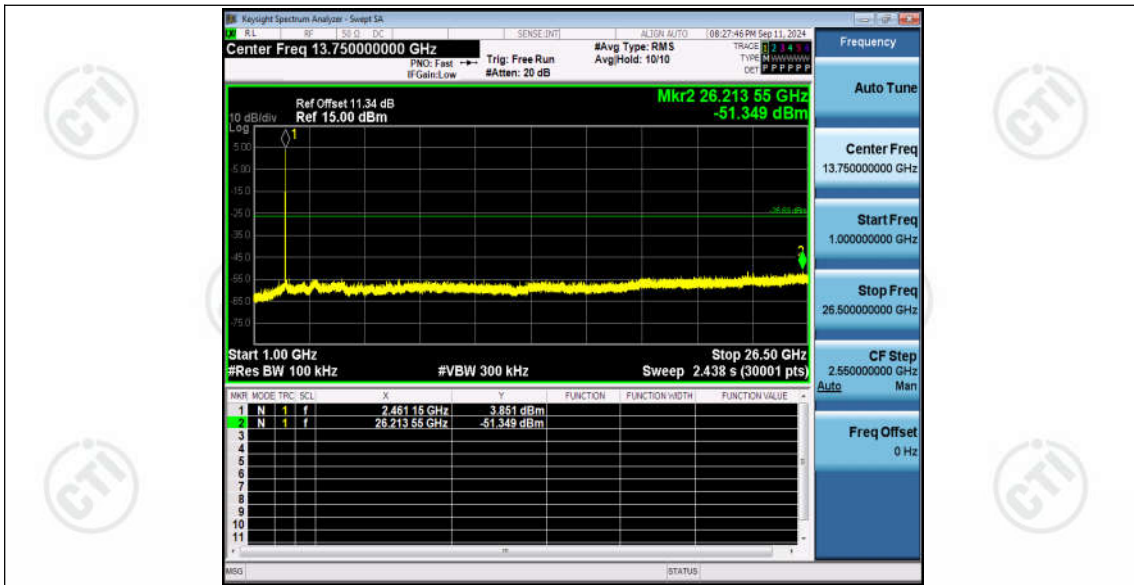
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



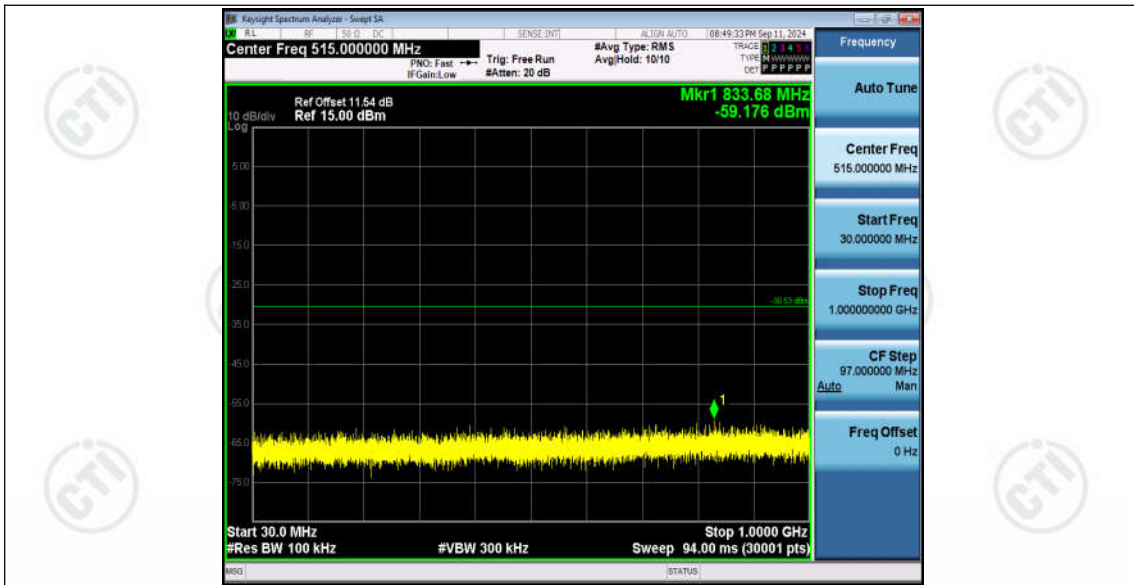
11B_Ant1_2462_1000~26500



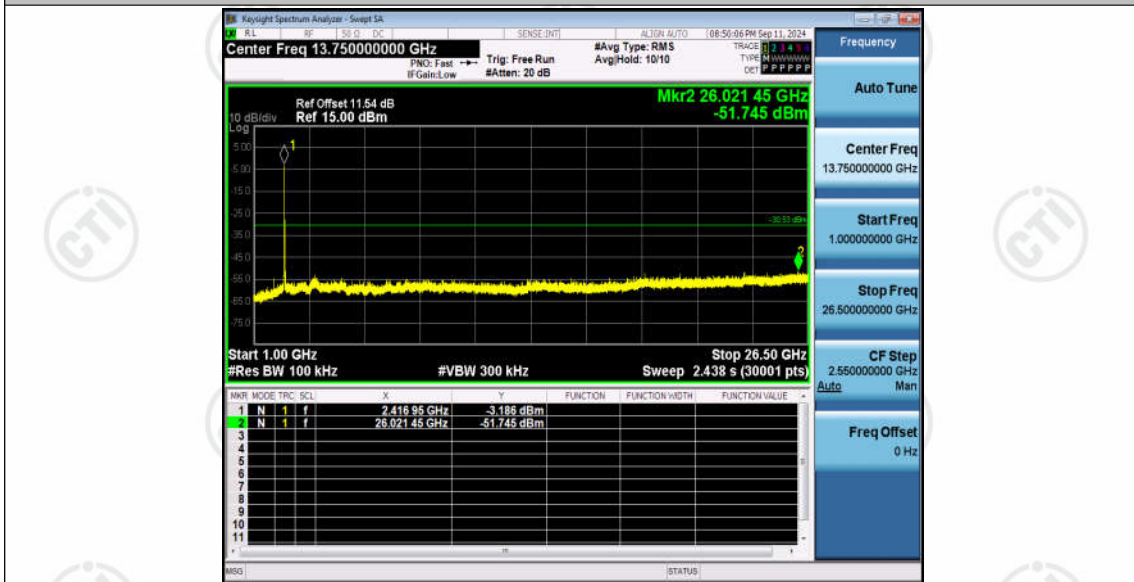
11G_Ant1_2412_0~Reference



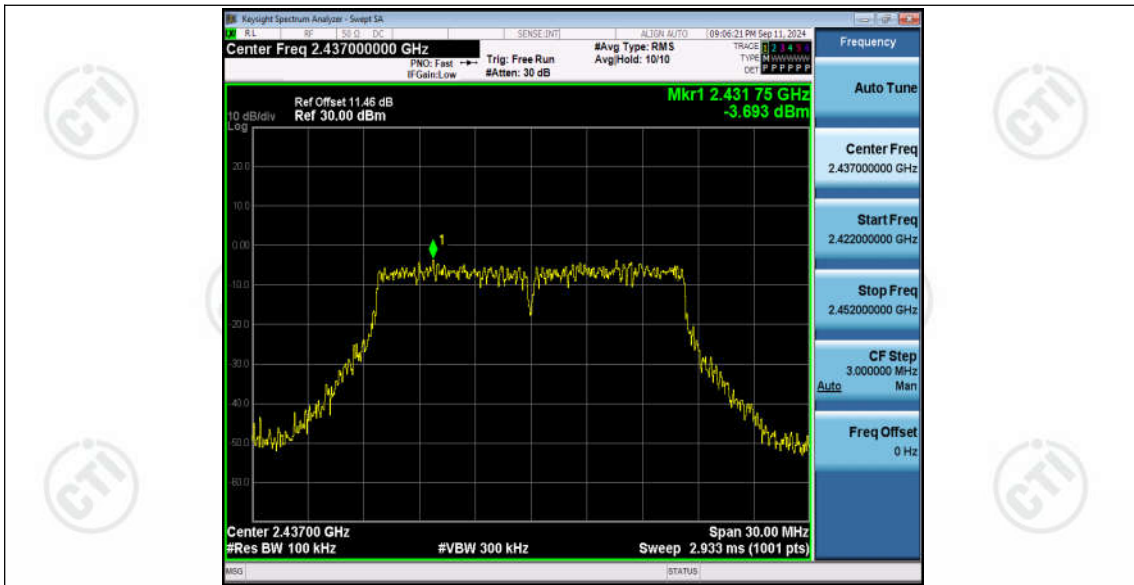
11G_Ant1_2412_30~1000



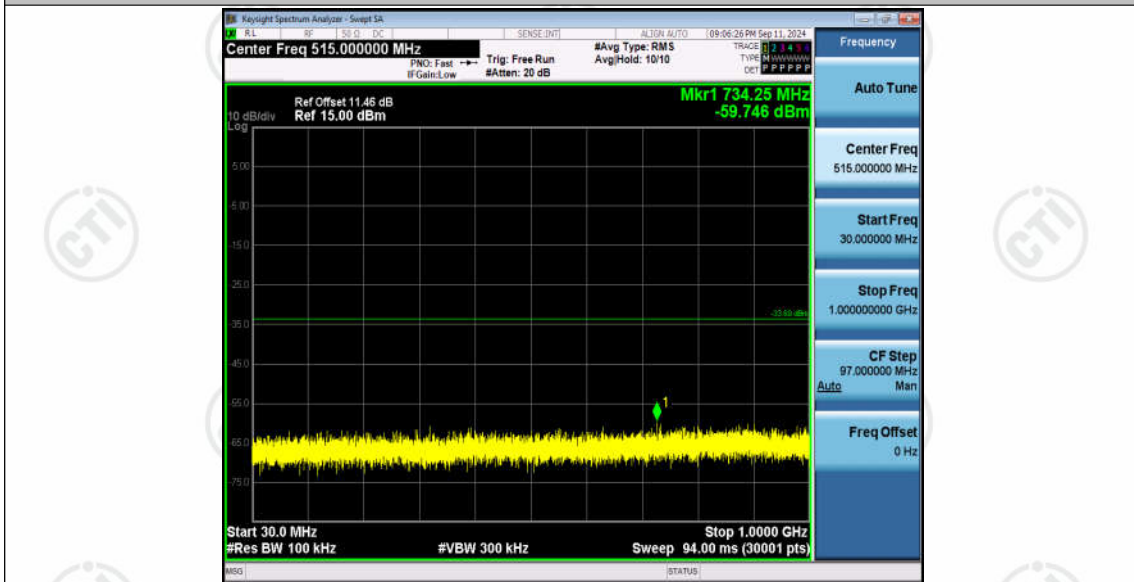
11G_Ant1_2412_1000~26500



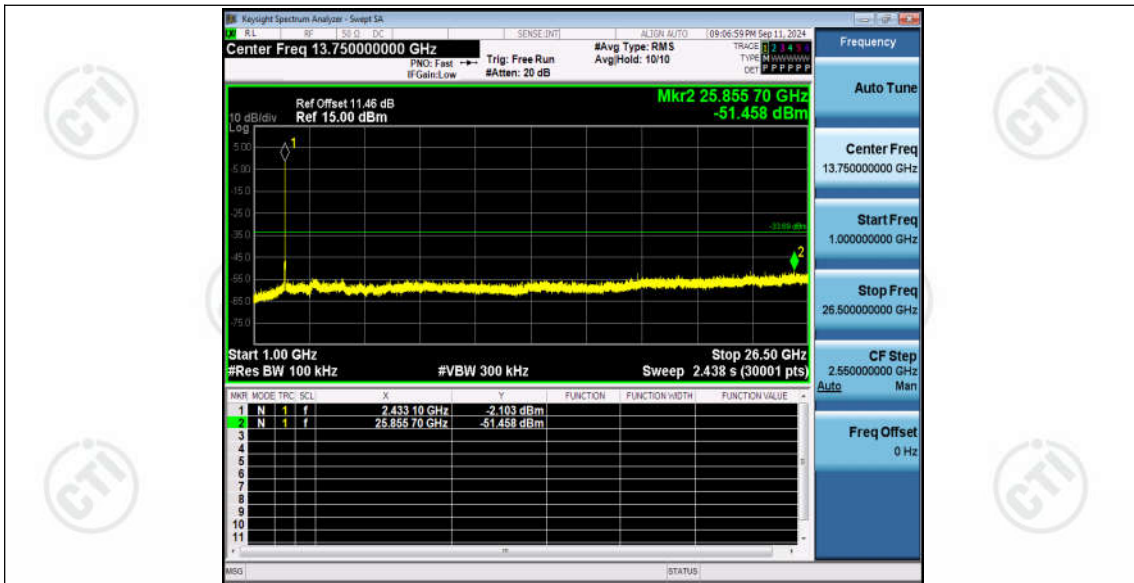
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



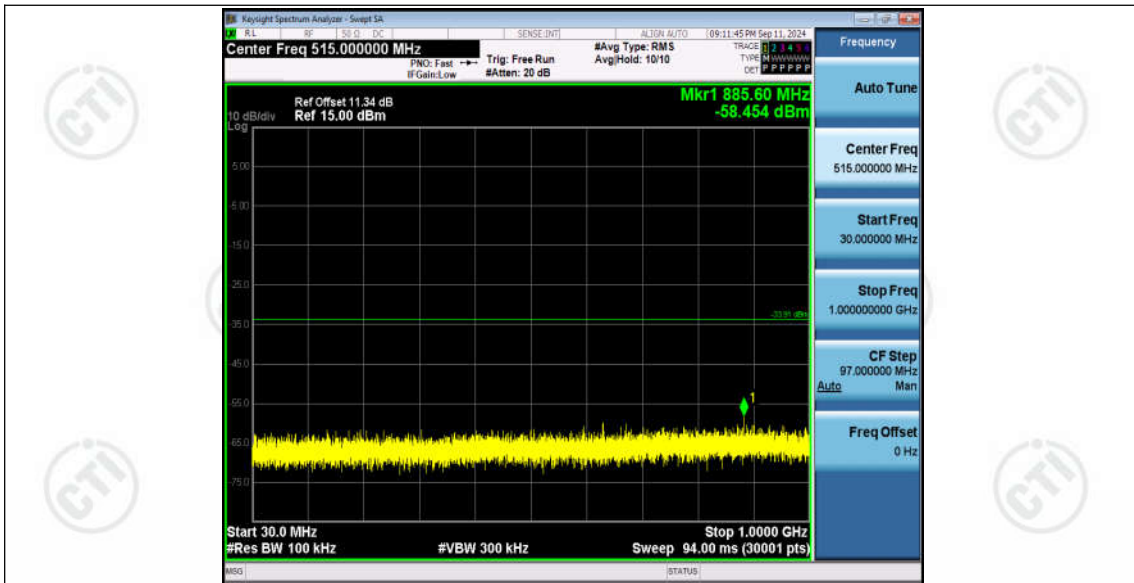
11G_Ant1_2437_1000~26500



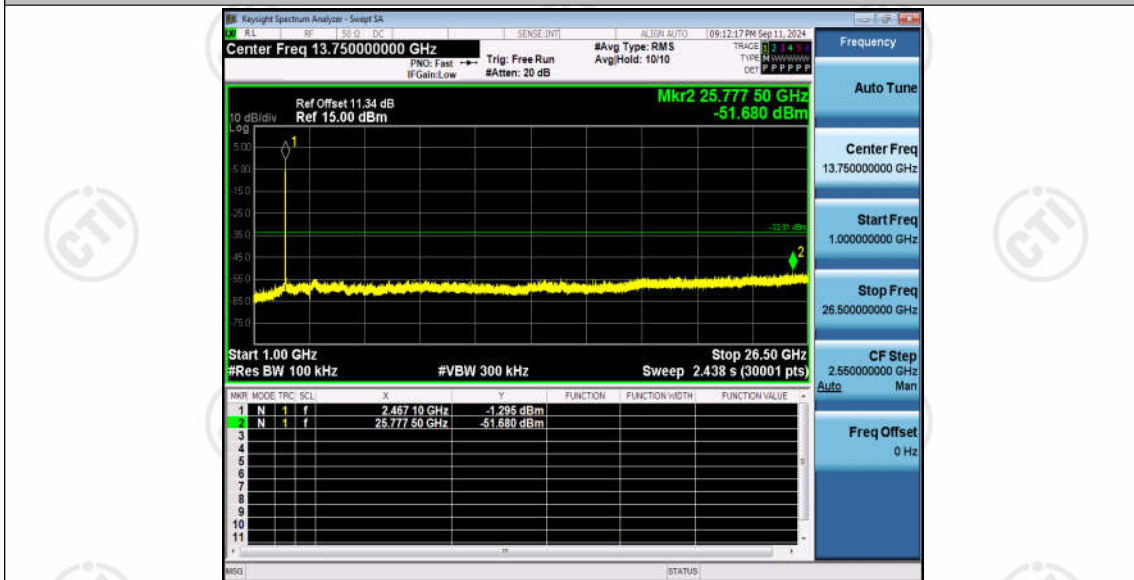
11G_Ant1_2462_0~Reference



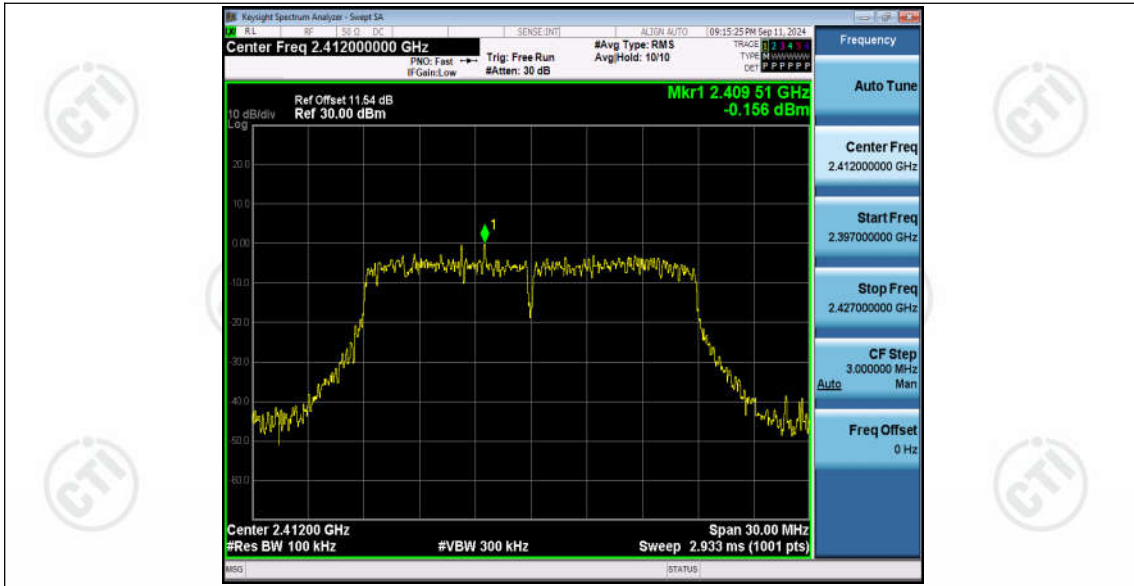
11G_Ant1_2462_30~1000



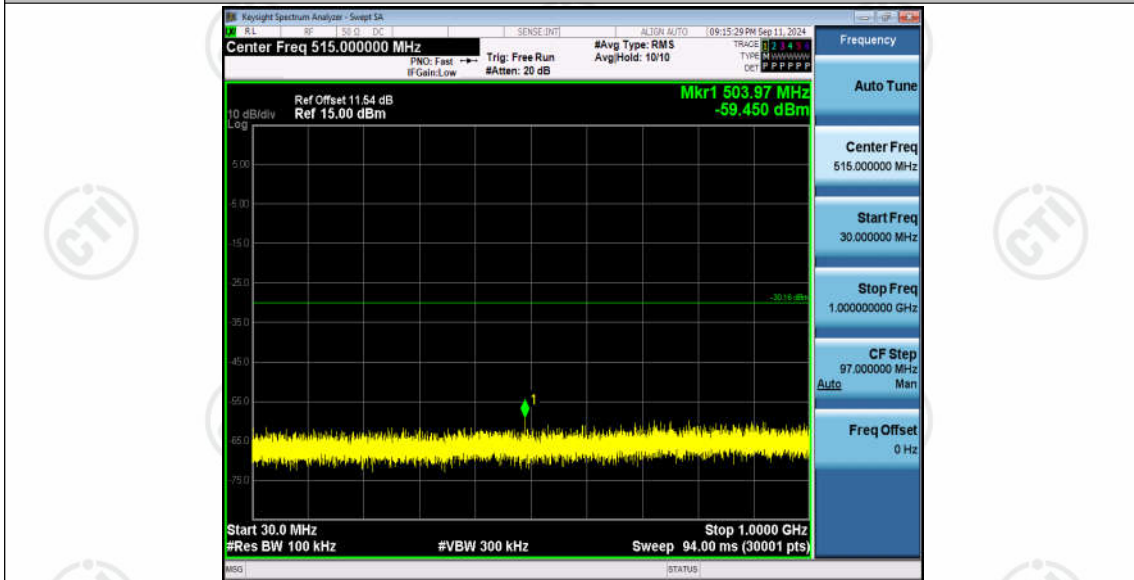
11G_Ant1_2462_1000~26500



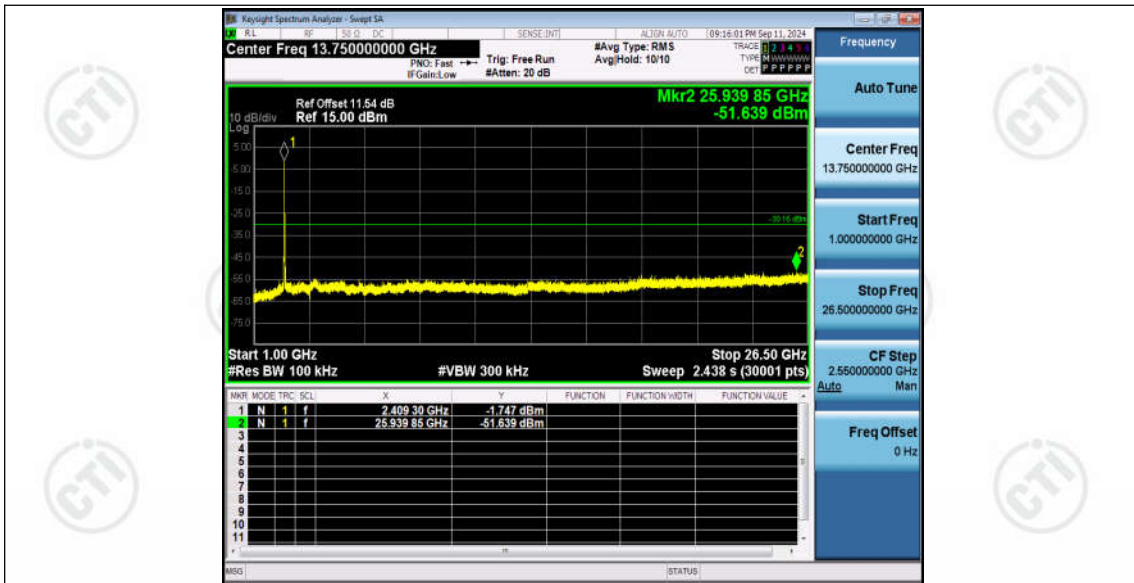
11N20SISO_Ant1_2412_0~Reference



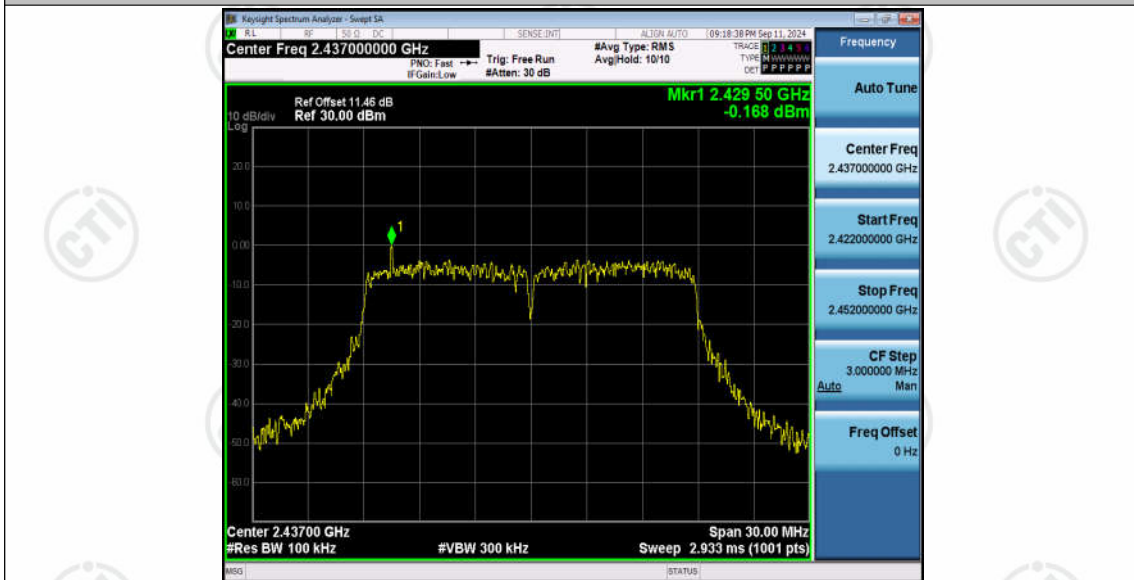
11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



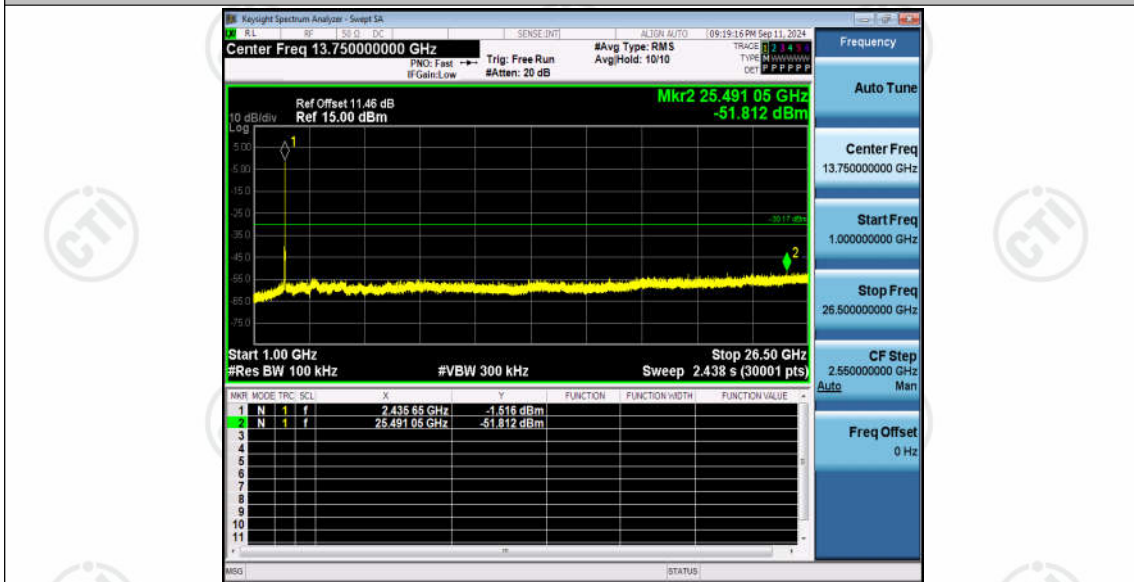
11N20SISO_Ant1_2437_0~Reference



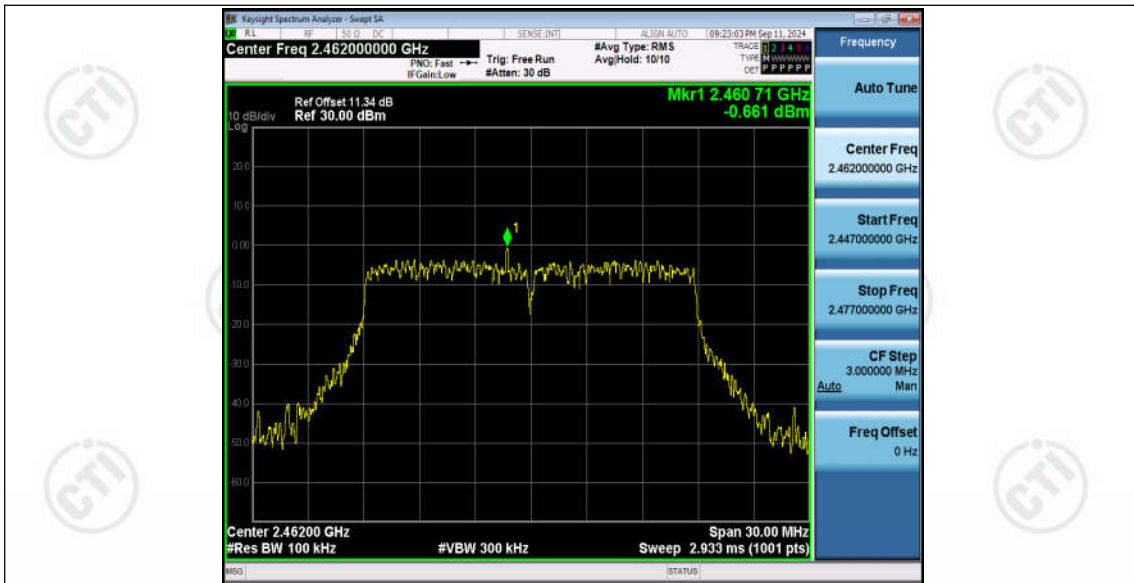
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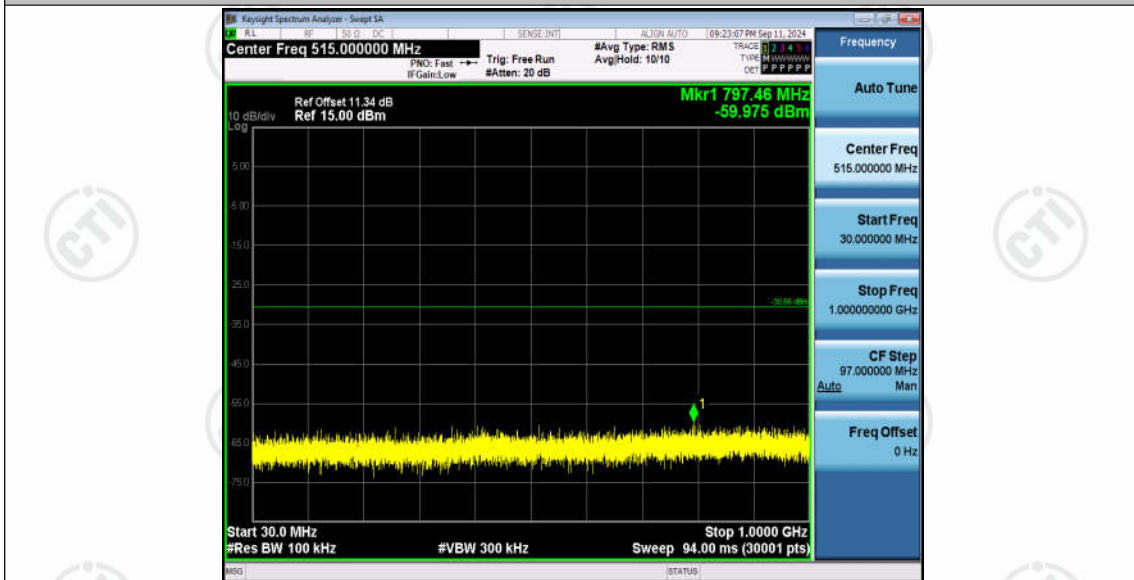
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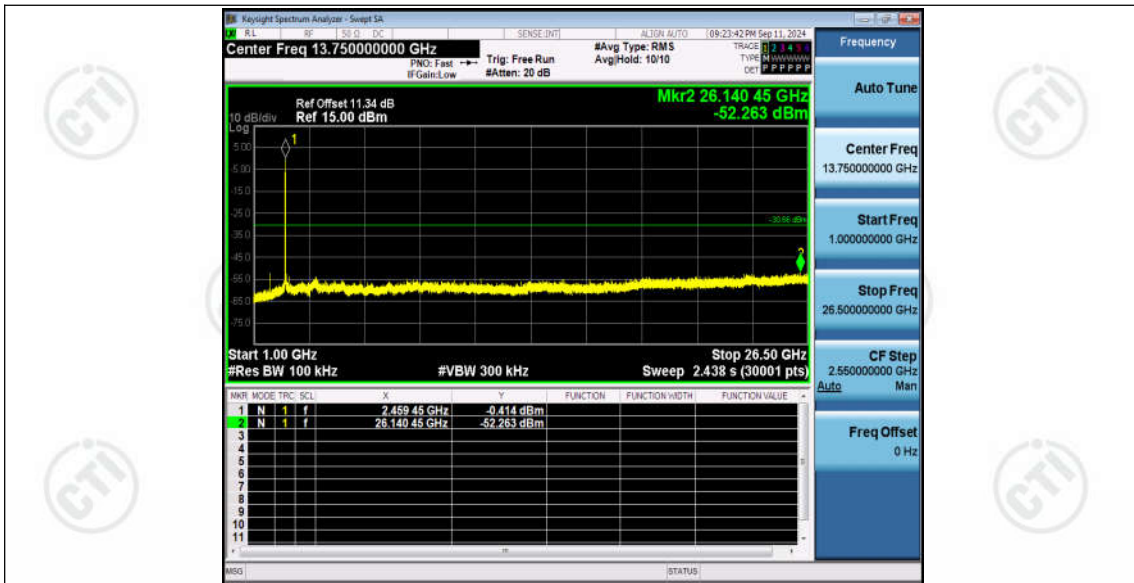
11N20SISO_Ant1_2462_0~Reference



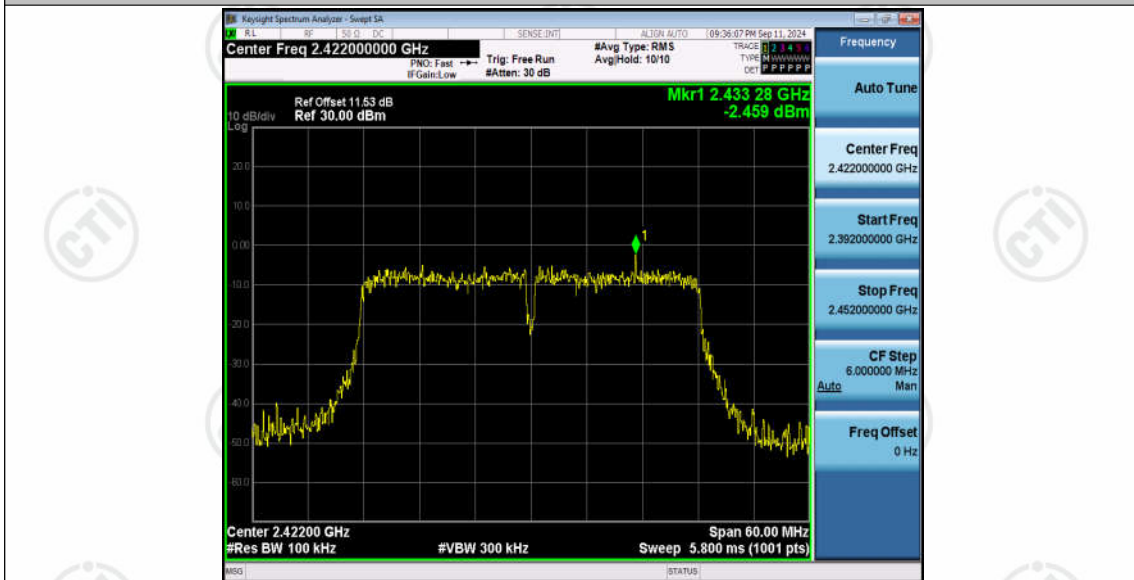
11N20SISO_Ant1_2462_30~1000



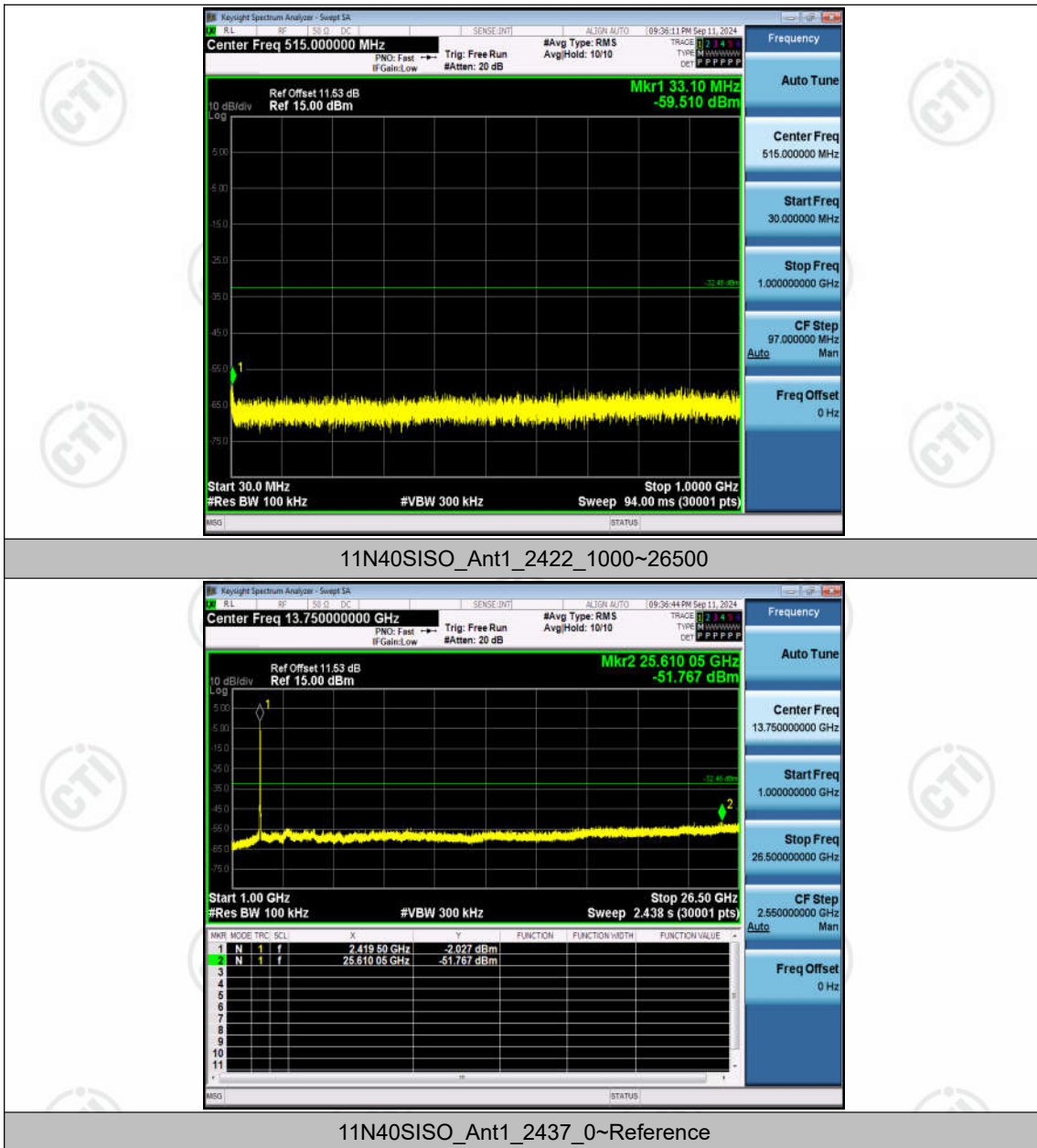
11N20SISO_Ant1_2462_1000~26500

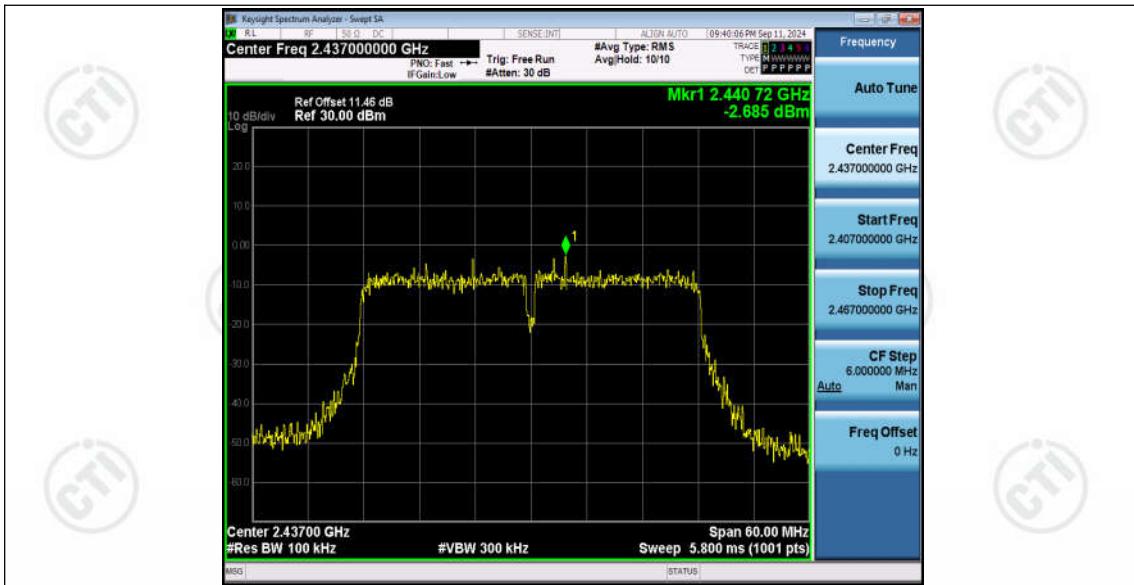


11N40SISO_Ant1_2422_0~Reference

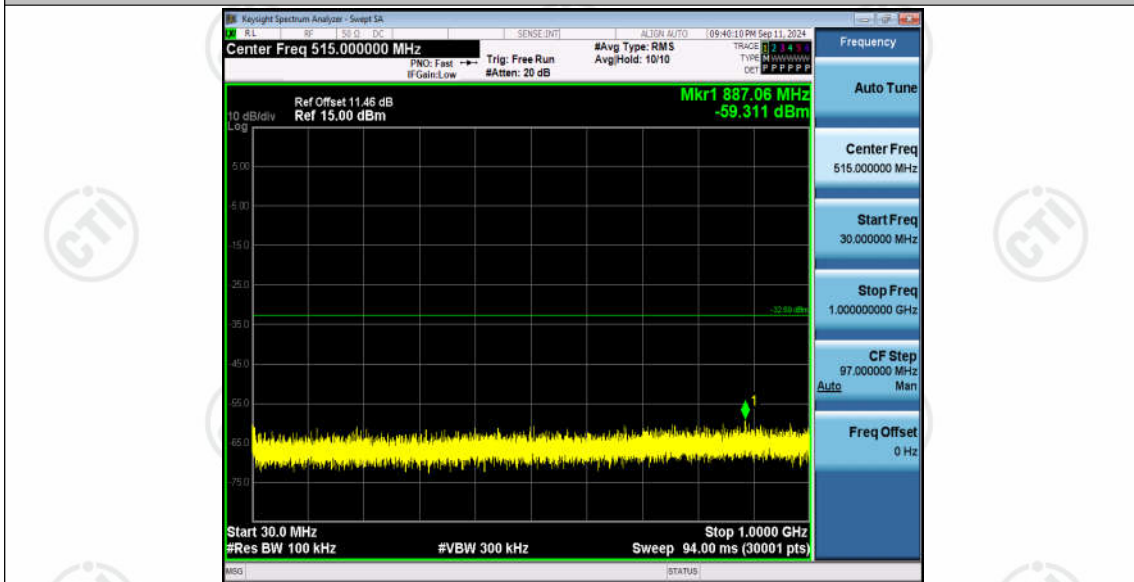


11N40SISO_Ant1_2422_30~1000

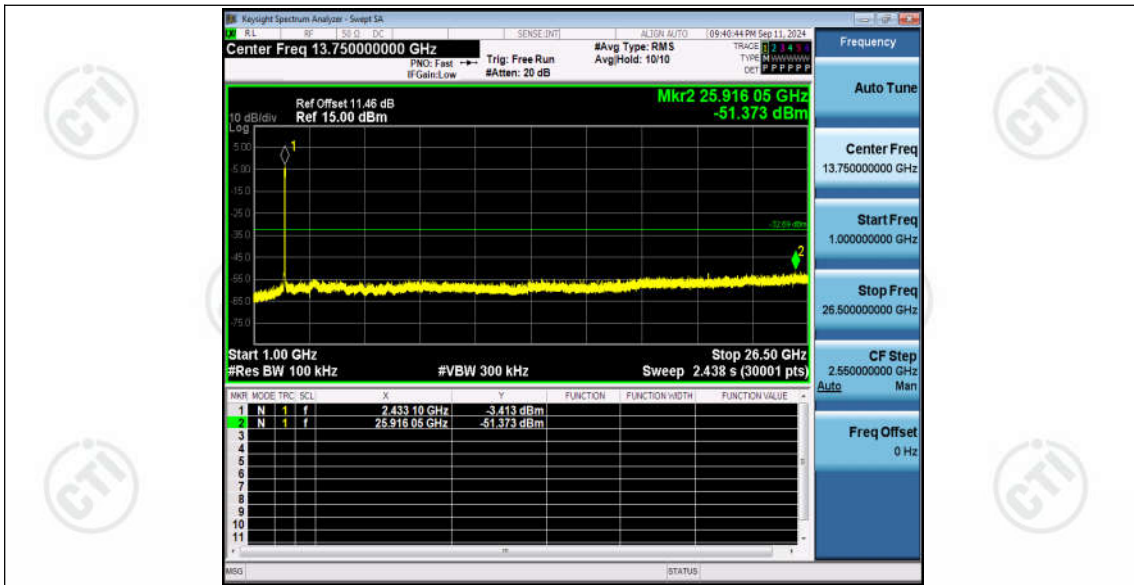




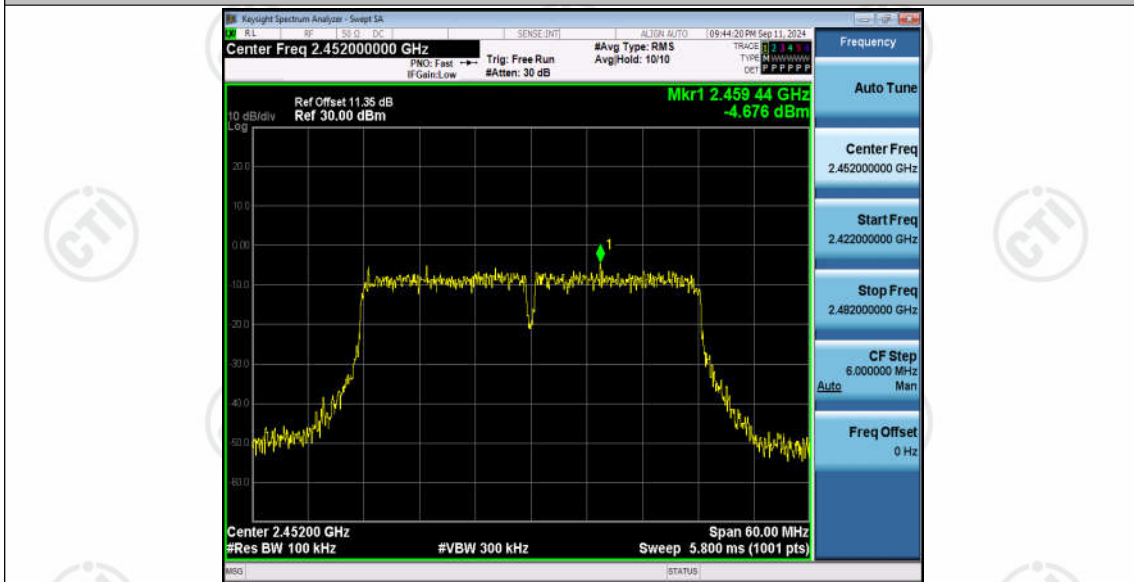
11N40SISO_Ant1_2437_30~1000



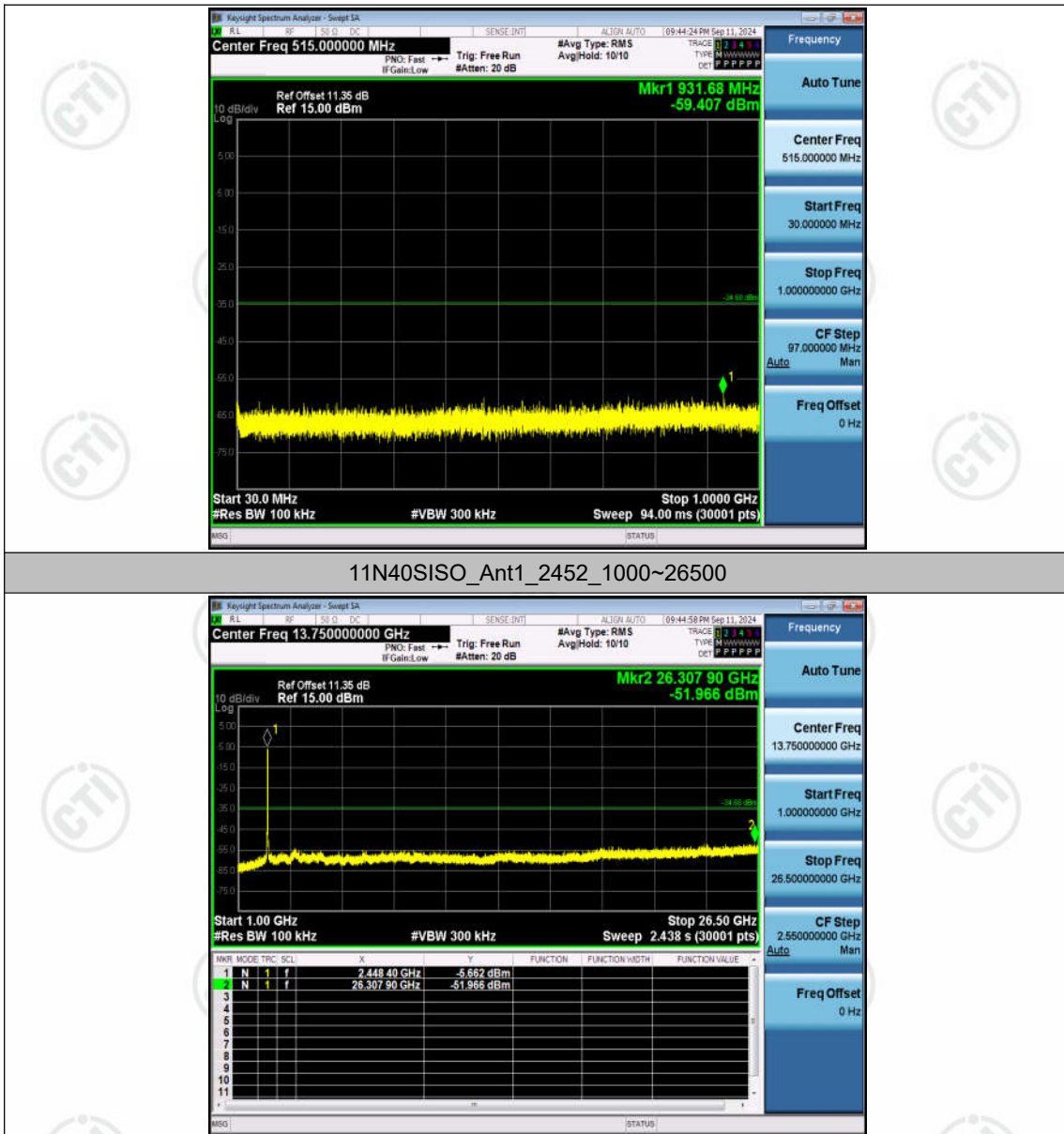
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



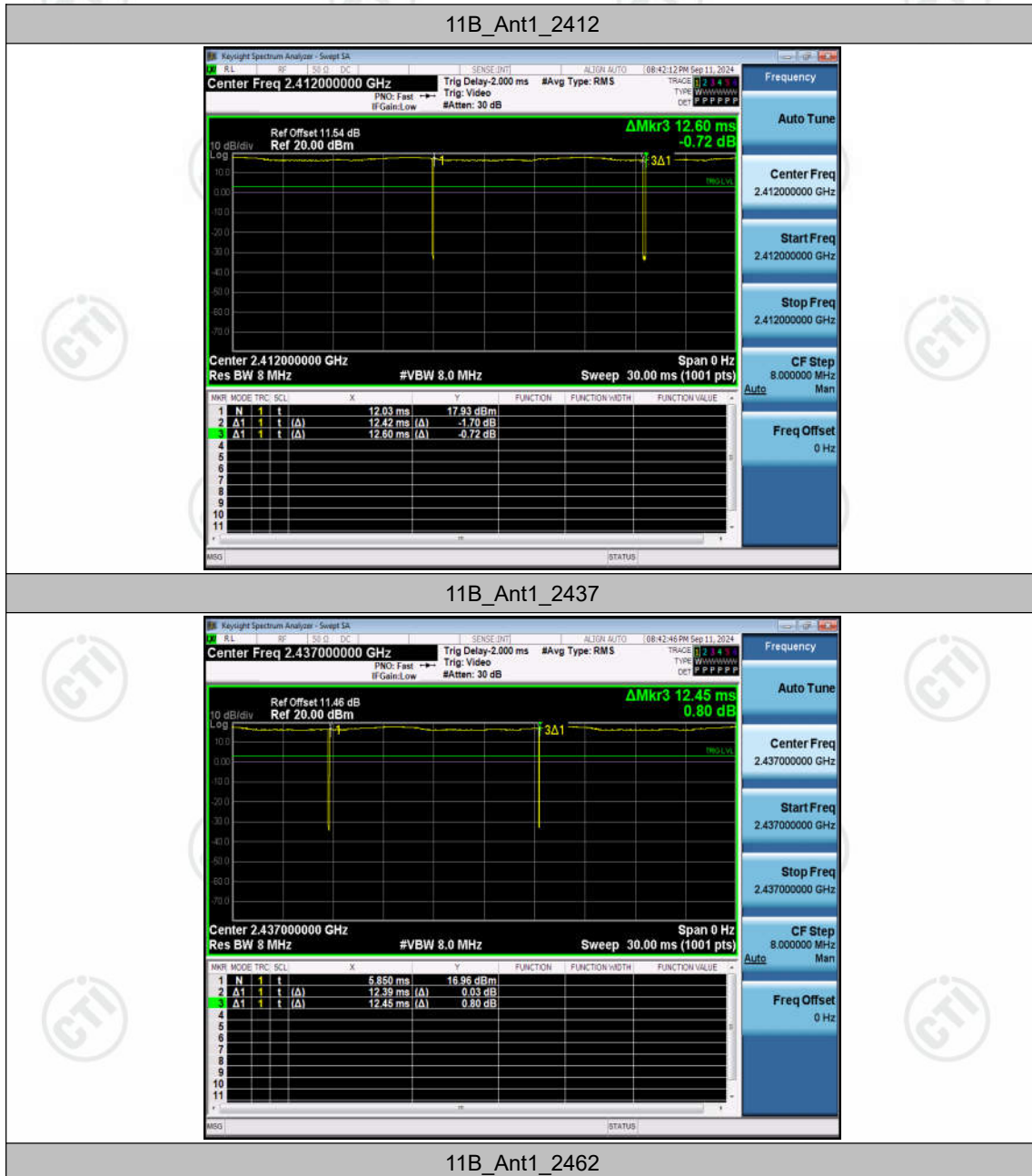
Appendix G: Duty Cycle

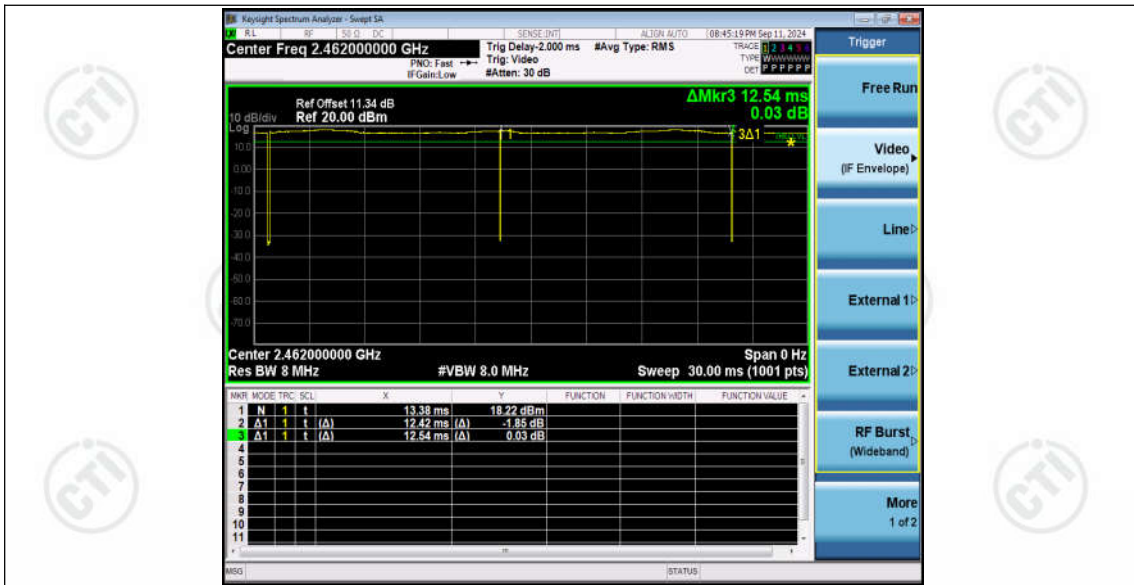
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
11B	Ant1	2412	12.42	12.60	98.57	0.06
		2437	12.39	12.45	99.52	0.02
		2462	12.42	12.54	99.04	0.04
11G	Ant1	2412	2.07	2.25	92.00	0.36
		2437	2.04	2.19	93.15	0.31
		2462	2.04	2.19	93.15	0.31
11N20SIS O	Ant1	2412	1.92	2.10	91.43	0.39
		2437	1.92	2.12	90.57	0.43
		2462	1.92	2.08	92.31	0.35
11N40SIS O	Ant1	2422	0.94	1.12	83.93	0.76
		2437	0.94	1.10	85.45	0.68
		2452	0.95	1.12	84.82	0.72

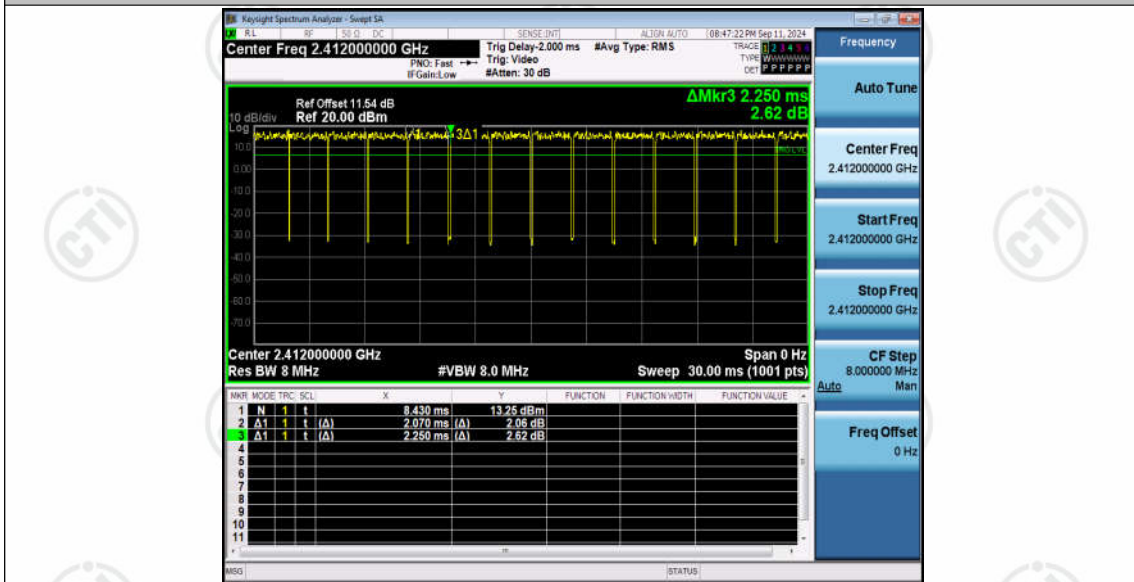
Note:Duty Cycle Factor[dB]=-10*Ig(Duty Cycle);

Test Graphs

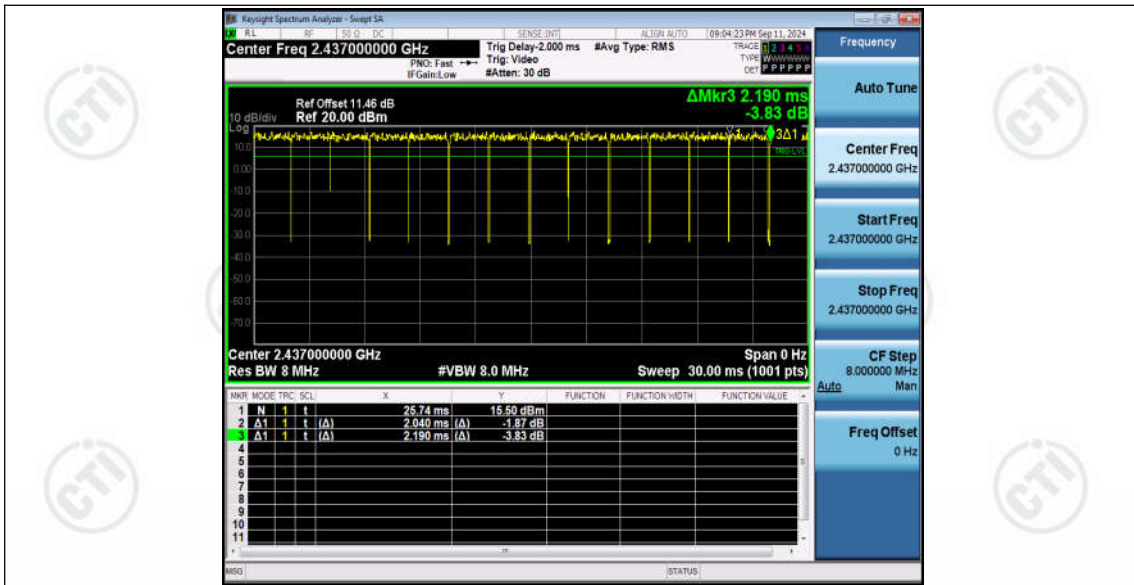




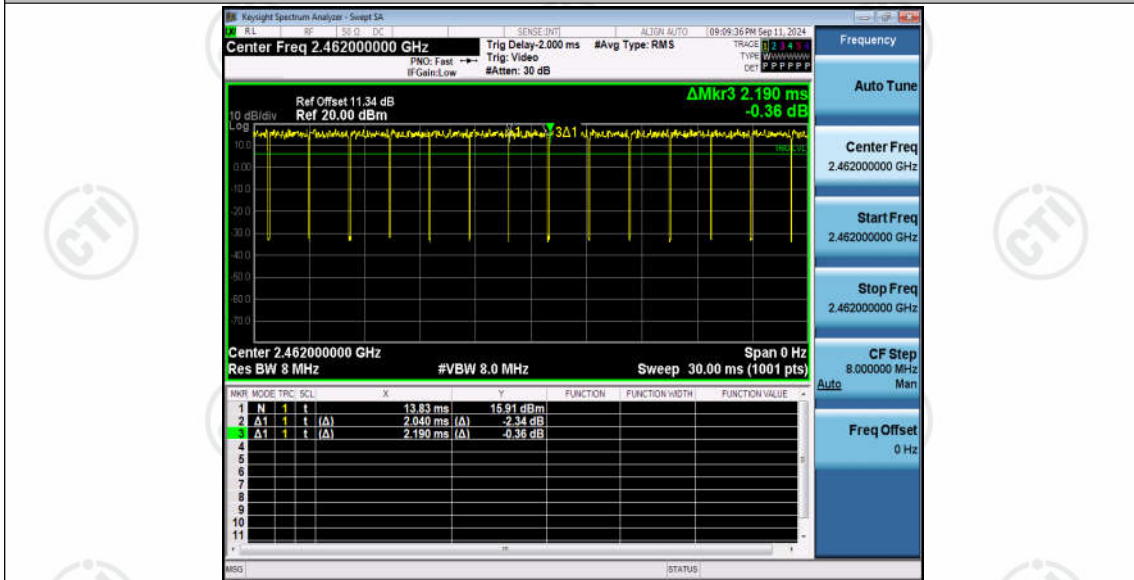
11G_Ant1_2412



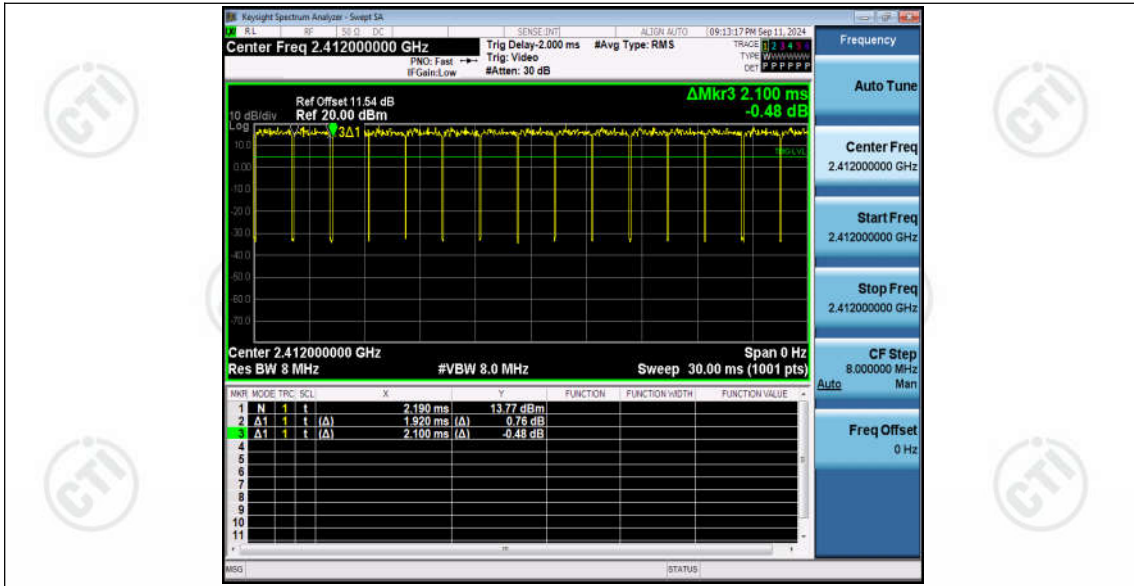
11G_Ant1_2437



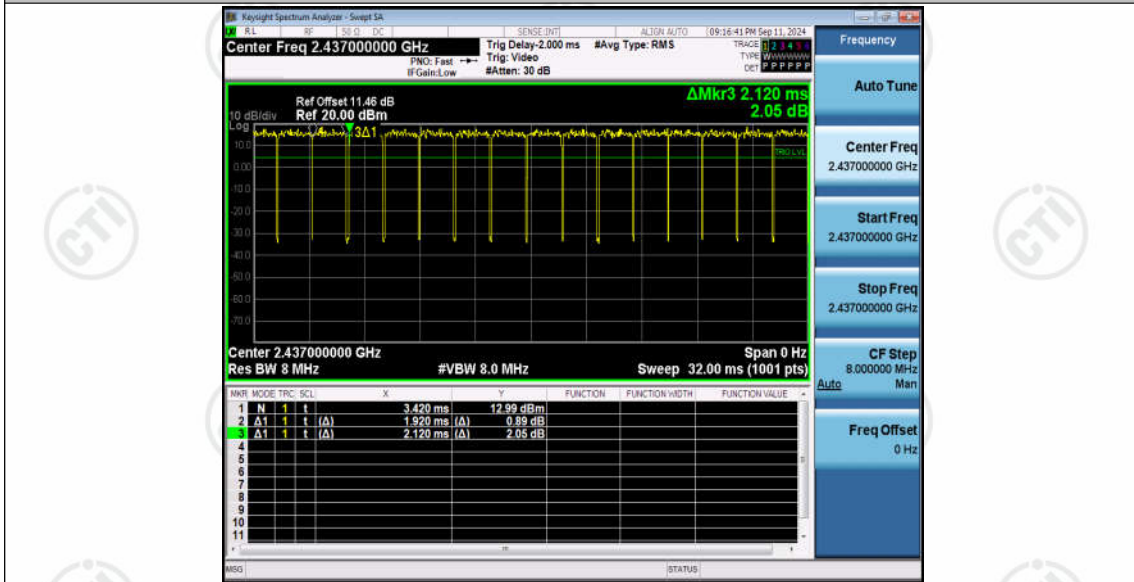
11G_Ant1_2462



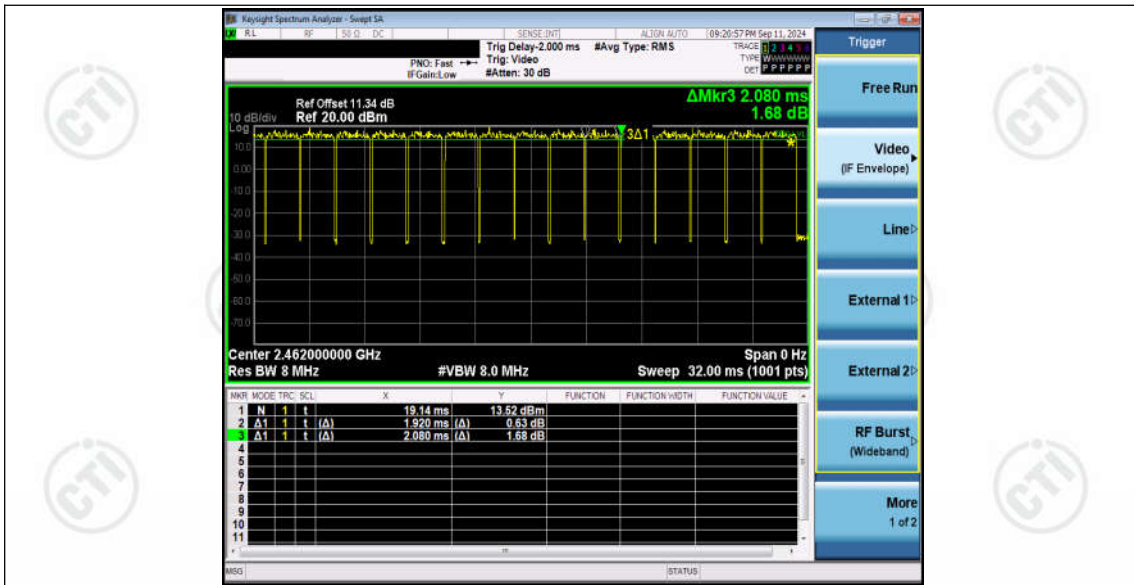
11N20SISO_Ant1_2412



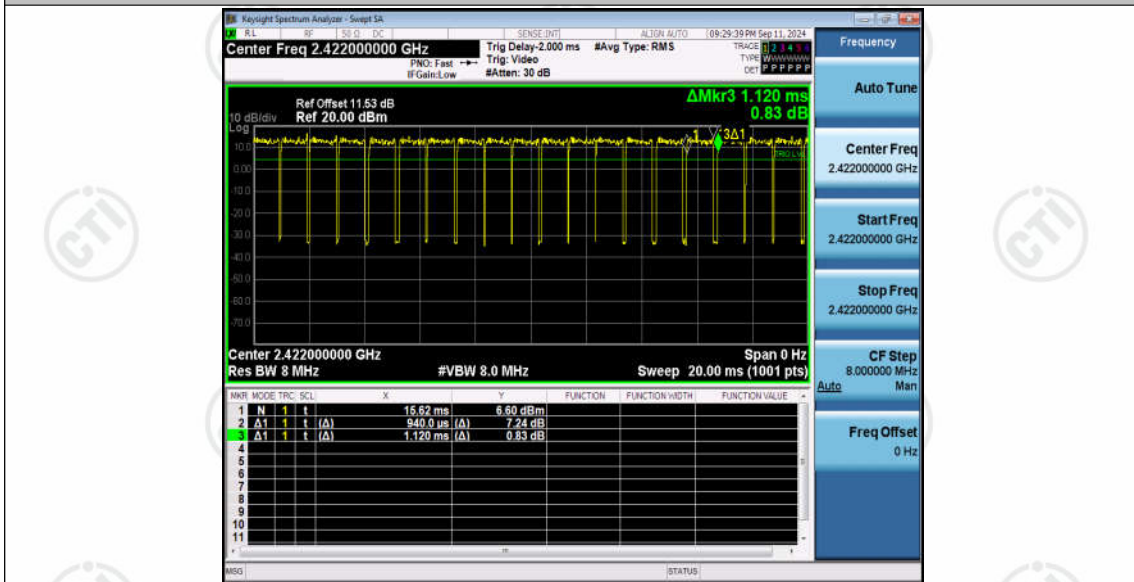
11N20SISO_Ant1_2437



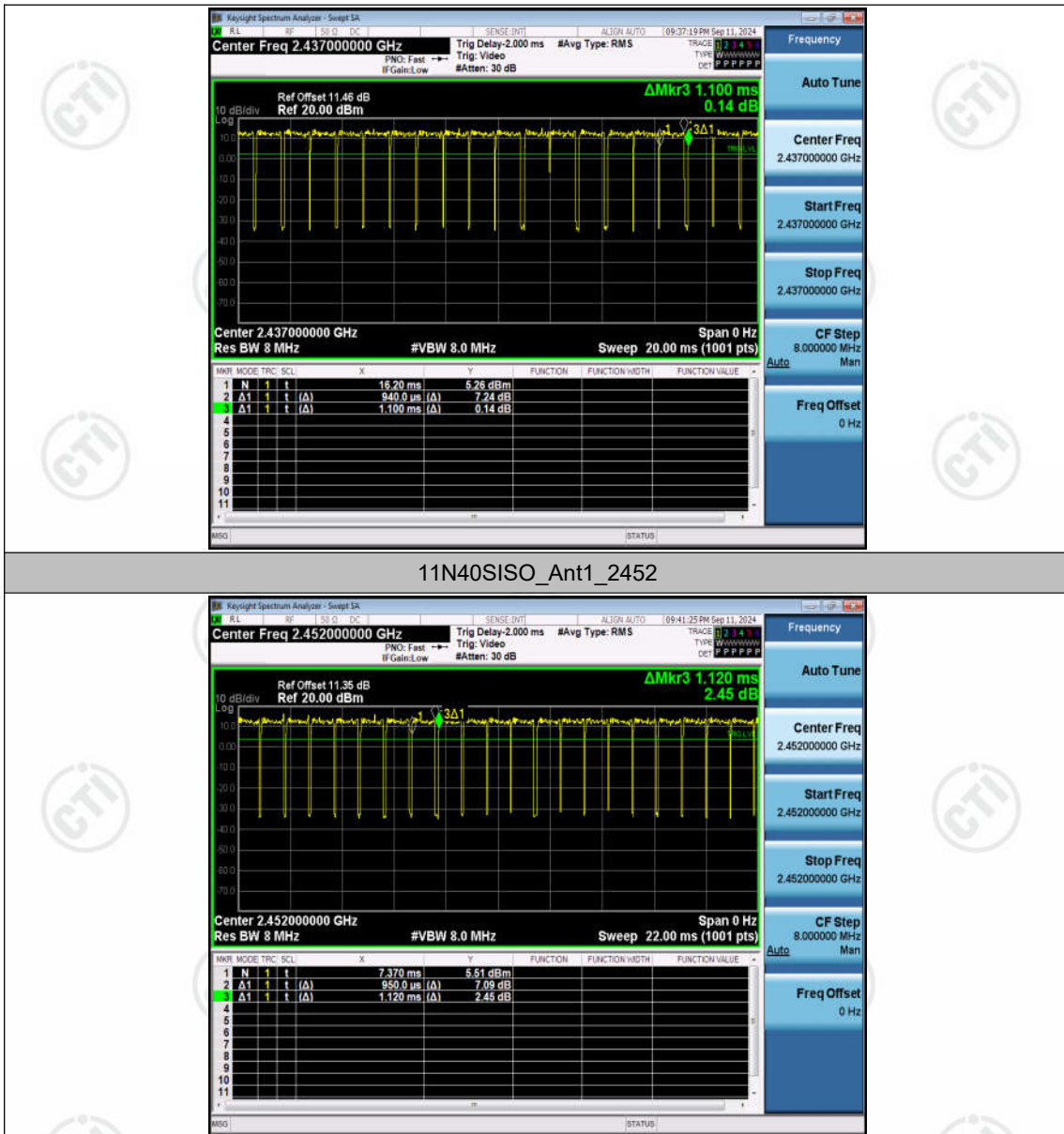
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



END OF REPORT