

Applicant: <u>Shenzhen Yixing Weishi Security Co., Ltd</u>	
Case No. : <u>TH20240915-C01</u>	
EUT: <u>Solar Powered Camera</u>	
M/N: <u>VCS09</u>	
Standard: <u>FCC PART 15 C 15.247</u>	
Test Power Supply: <u>NA</u>	
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, <u>101.325</u> kPa	
Test Date: <u>2024.09.18-2024.10.09</u>	Test Engineer: <u>SunyZhuo</u>

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.000	2407.040	2417.040	0.5	PASS
		2437	10.000	2432.040	2442.040	0.5	PASS
		2462	9.040	2457.520	2466.560	0.5	PASS
11G	Ant1	2412	16.280	2403.920	2420.200	0.5	PASS
		2437	16.280	2428.920	2445.200	0.5	PASS
		2462	16.280	2453.920	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.000	2403.560	2420.560	0.5	PASS
		2437	16.520	2428.920	2445.440	0.5	PASS
		2462	17.000	2453.560	2470.560	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	34.960	2419.640	2454.600	0.5	PASS
		2452	35.120	2434.480	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



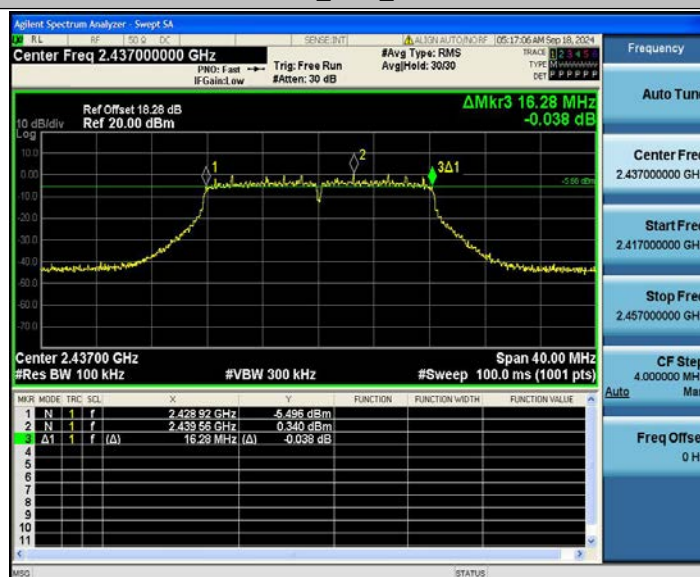
11B_Ant1_2462



11G_Ant1_2412



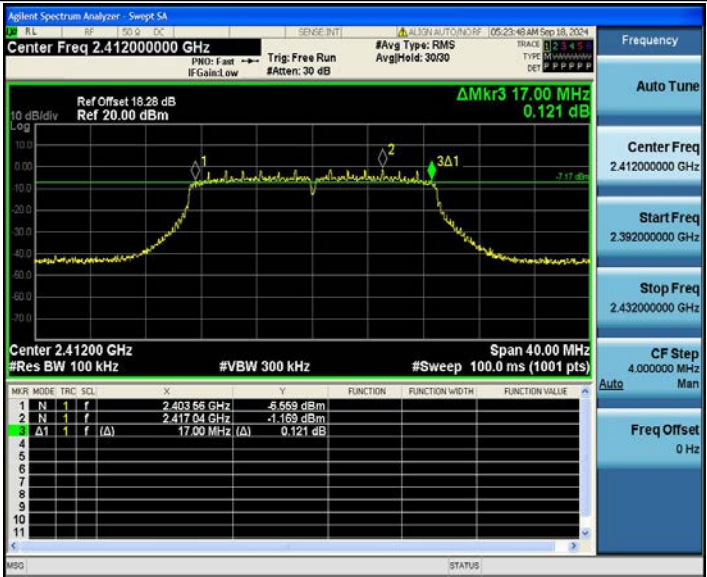
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



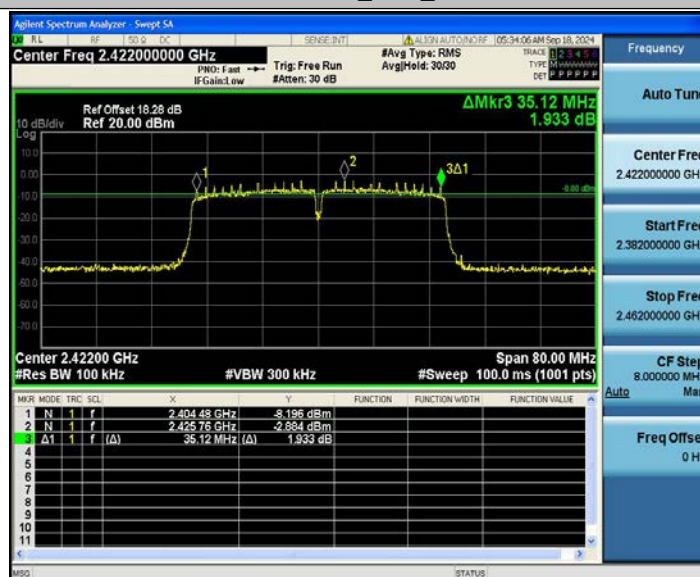
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.592	2404.7794	2419.3714	---	---
		2437	14.593	2429.7954	2444.3884	---	---
		2462	14.578	2454.7756	2469.3536	---	---
11G	Ant1	2412	16.535	2403.8403	2420.3753	---	---
		2437	16.572	2428.8407	2445.4127	---	---
		2462	16.629	2453.7809	2470.4099	---	---
11N20SISO	Ant1	2412	17.715	2403.2369	2420.9519	---	---
		2437	17.622	2428.2807	2445.9027	---	---
		2462	17.683	2453.2139	2470.8969	---	---
11N40SISO	Ant1	2422	35.863	2404.1952	2440.0582	---	---
		2437	35.868	2419.2436	2455.1116	---	---
		2452	35.829	2434.2415	2470.0705	---	---

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



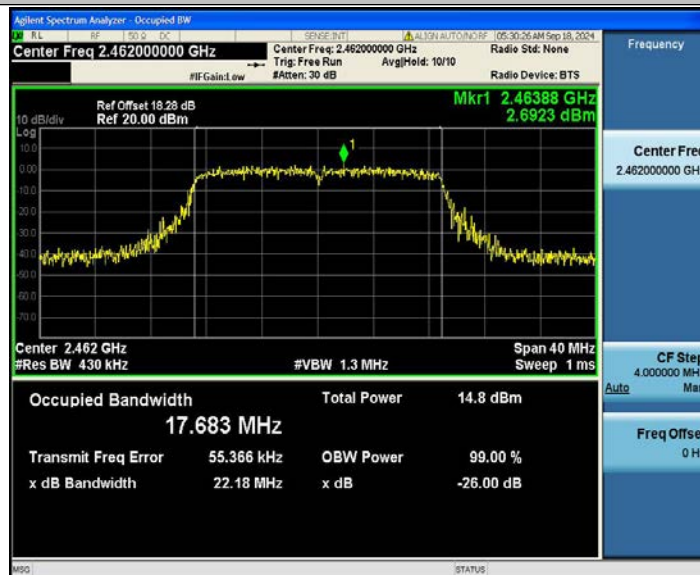
11N20SISO_Ant1_2412



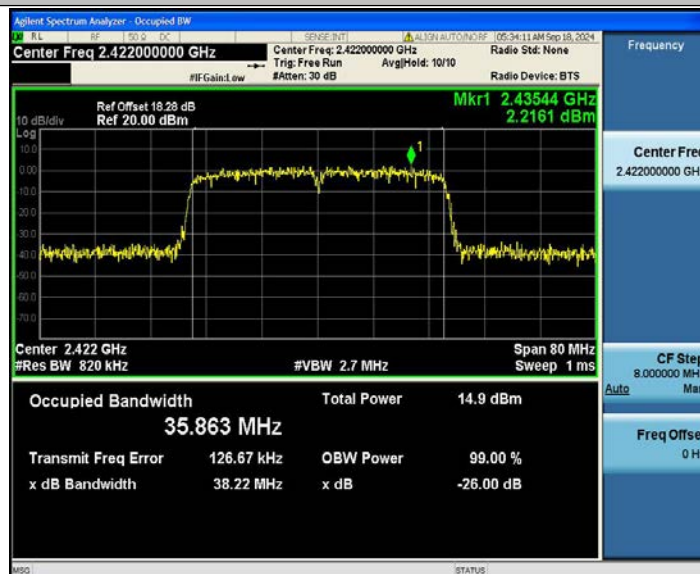
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Channel	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	10.69	≤30.00	PASS
		2437	---	11.12	≤30.00	PASS
		2462	---	11.37	≤30.00	PASS
11G	Ant1	2412	---	10.67	≤30.00	PASS
		2437	---	11.44	≤30.00	PASS
		2462	---	11.34	≤30.00	PASS
11N20SISO	Ant1	2412	---	10.13	≤30.00	PASS
		2437	---	11.15	≤30.00	PASS
		2462	---	11.15	≤30.00	PASS
11N40SISO	Ant1	2422	---	10.98	≤30.00	PASS
		2437	---	11.14	≤30.00	PASS
		2452	---	11.12	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-20.29	≤8.00	PASS
		2437	-20.20	≤8.00	PASS
		2462	-20.05	≤8.00	PASS
11G	Ant1	2412	-22.97	≤8.00	PASS
		2437	-21.81	≤8.00	PASS
		2462	-22.54	≤8.00	PASS
11N20SISO	Ant1	2412	-23.22	≤8.00	PASS
		2437	-22.44	≤8.00	PASS
		2462	-22.83	≤8.00	PASS
11N40SISO	Ant1	2422	-26.03	≤8.00	PASS
		2437	-25.49	≤8.00	PASS
		2452	-25.78	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



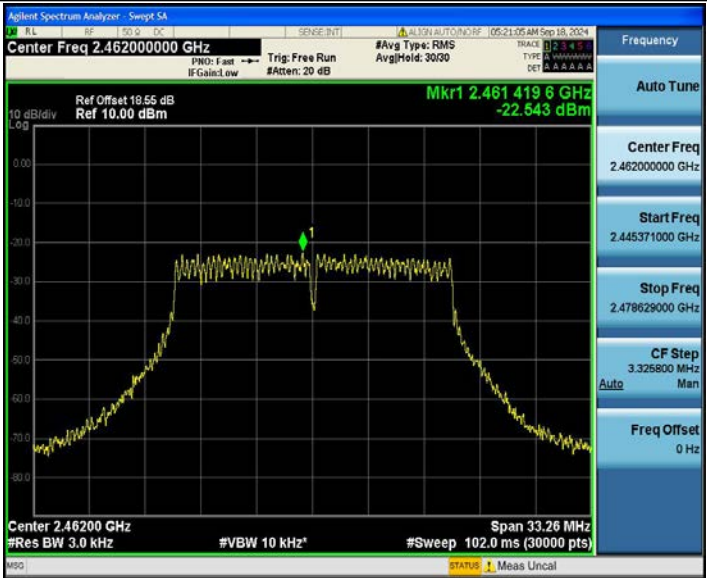
11G_Ant1_2412



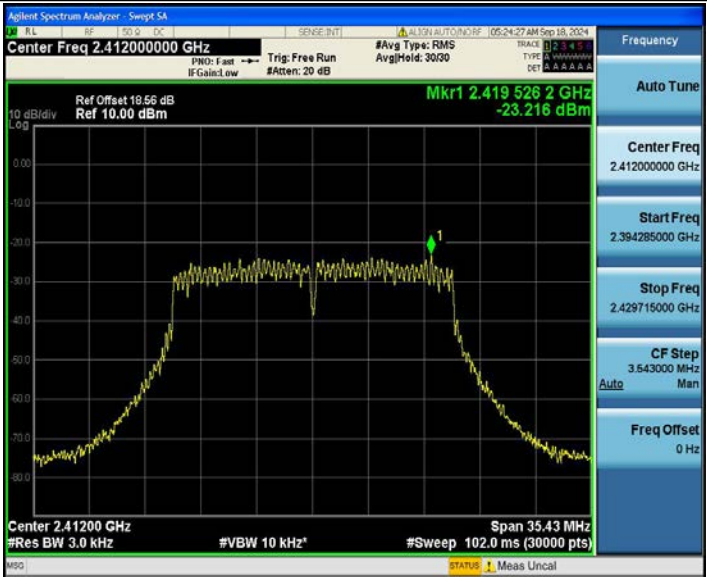
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



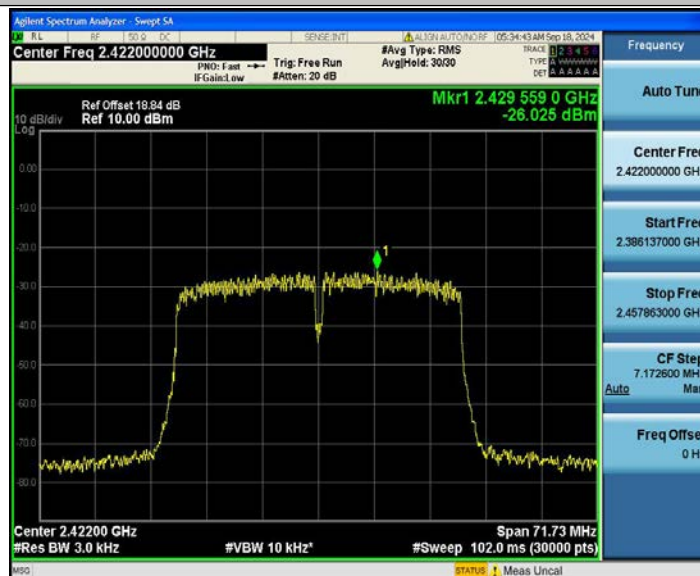
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



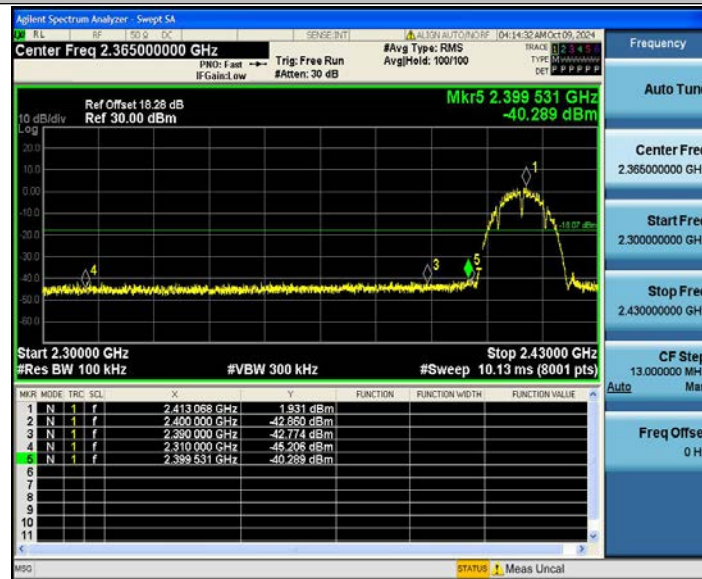
Appendix E: Band edge measurements

Test Result

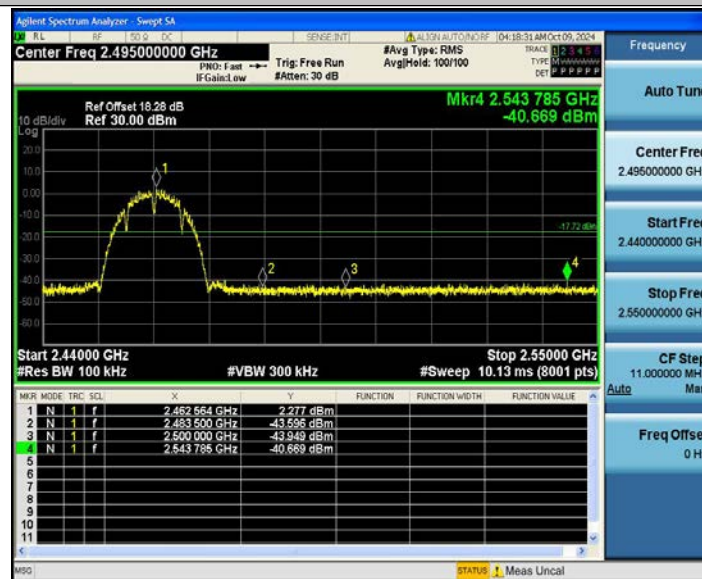
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.93	-40.29	≤ -18.07	PASS
		High	2462	2.28	-40.67	≤ -17.72	PASS
11G	Ant1	Low	2412	1.11	-36.55	≤ -18.89	PASS
		High	2462	2.87	-40.23	≤ -17.13	PASS
11N20SISO	Ant1	Low	2412	0.84	-36.68	≤ -19.16	PASS
		High	2462	1.65	-40.64	≤ -18.35	PASS
11N40SISO	Ant1	Low	2422	-1.49	-41.36	≤ -21.49	PASS
		High	2452	-1.20	-41.20	≤ -21.20	PASS

Test Graphs

11B_Ant1_Low_2412



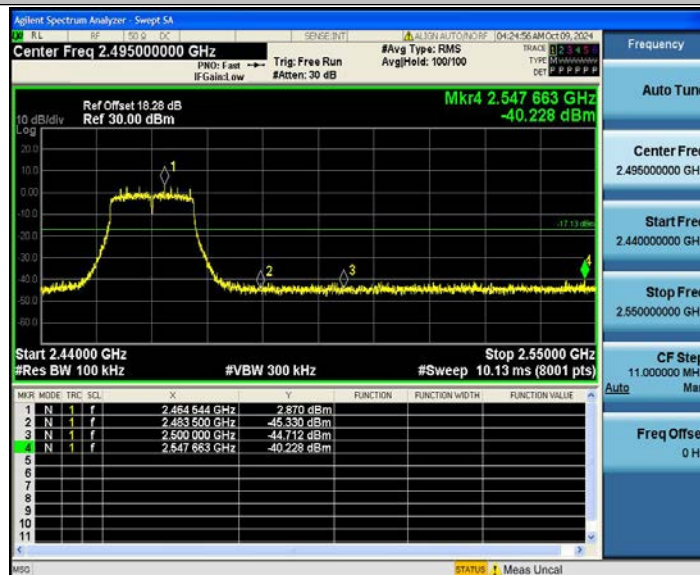
11B_Ant1_High_2462



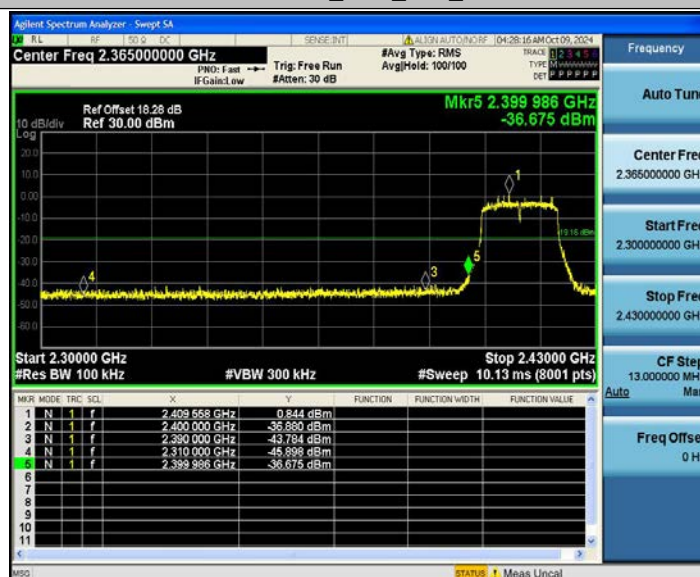
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



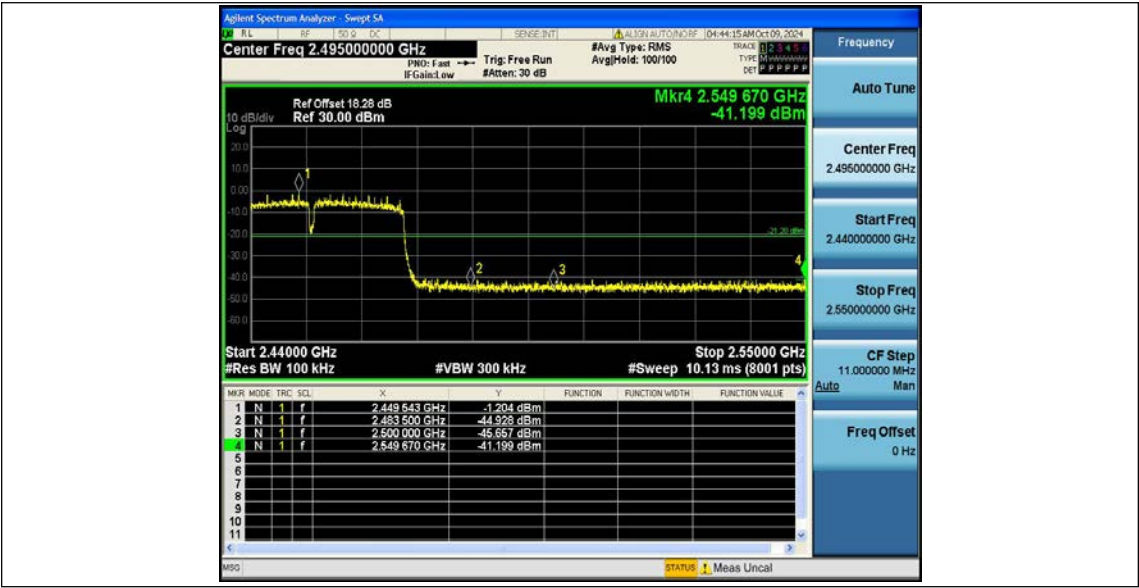
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.41	0.41	---	PASS
			30~1000	0.41	-51.83	≤-19.59	PASS
			1000~26500	0.41	-42.41	≤-19.59	PASS
		2437	Reference	0.23	0.23	---	PASS
			30~1000	0.23	-52.47	≤-19.77	PASS
			1000~26500	0.23	-41.91	≤-19.77	PASS
		2462	Reference	0.53	0.53	---	PASS
			30~1000	0.53	-52.29	≤-19.47	PASS
			1000~26500	0.53	-42.88	≤-19.47	PASS
11G	Ant1	2412	Reference	0.18	0.18	---	PASS
			30~1000	0.18	-52.31	≤-19.82	PASS
			1000~26500	0.18	-41.93	≤-19.82	PASS
		2437	Reference	-0.98	-0.98	---	PASS
			30~1000	-0.98	-52.8	≤-20.98	PASS
			1000~26500	-0.98	-42.61	≤-20.98	PASS
		2462	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-51.42	≤-20.24	PASS
			1000~26500	-0.24	-43.06	≤-20.24	PASS
11N20SISO	Ant1	2412	Reference	-0.68	-0.68	---	PASS
			30~1000	-0.68	-52.66	≤-20.68	PASS
			1000~26500	-0.68	-42.56	≤-20.68	PASS
		2437	Reference	-1.90	-1.90	---	PASS
			30~1000	-1.90	-51.84	≤-21.9	PASS
			1000~26500	-1.90	-42.67	≤-21.9	PASS
		2462	Reference	-1.25	-1.25	---	PASS
			30~1000	-1.25	-52.04	≤-21.25	PASS
			1000~26500	-1.25	-43.02	≤-21.25	PASS
11N40SISO	Ant1	2422	Reference	-2.10	-2.10	---	PASS
			30~1000	-2.10	-52.53	≤-22.1	PASS
			1000~26500	-2.10	-41.75	≤-22.1	PASS
		2437	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-49.11	≤-21.14	PASS
			1000~26500	-1.14	-42.59	≤-21.14	PASS
		2452	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-52.48	≤-22.24	PASS
			1000~26500	-2.24	-42.78	≤-22.24	PASS

Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



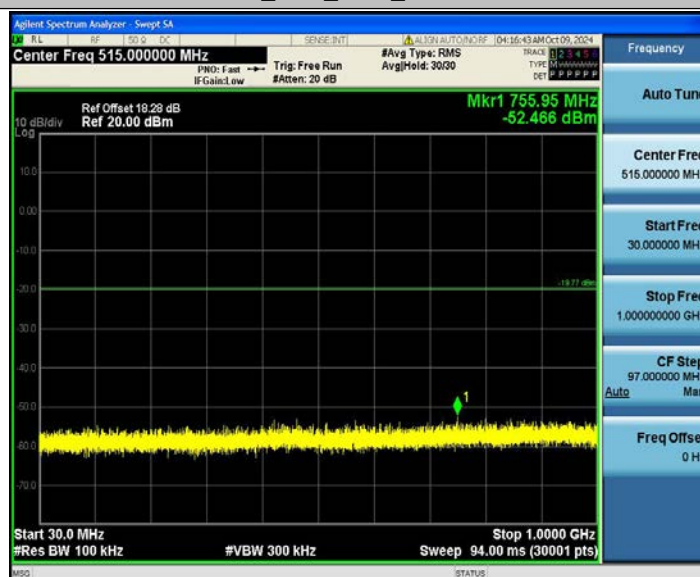
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



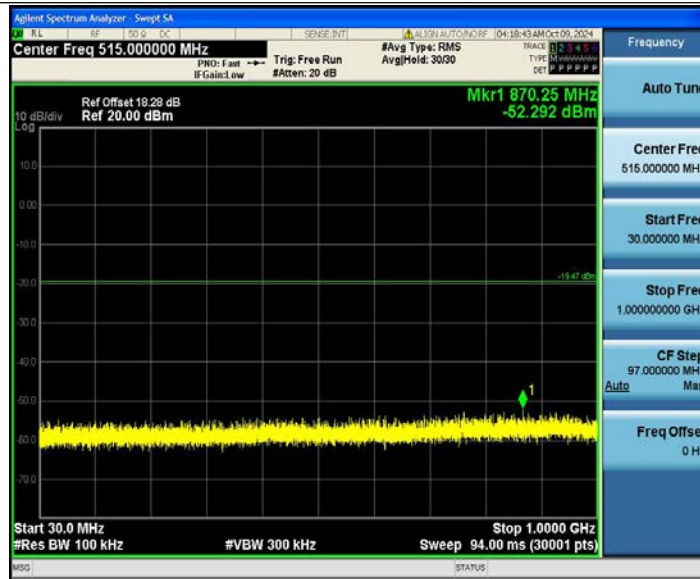
11B_Ant1_2437_1000~26500



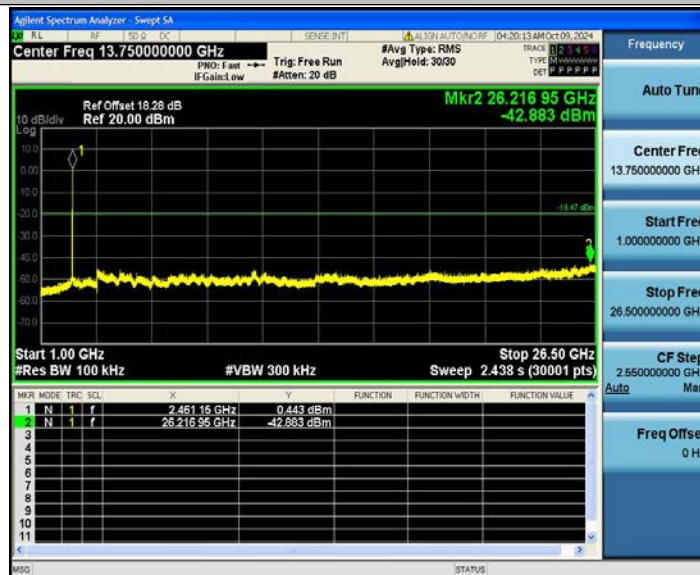
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



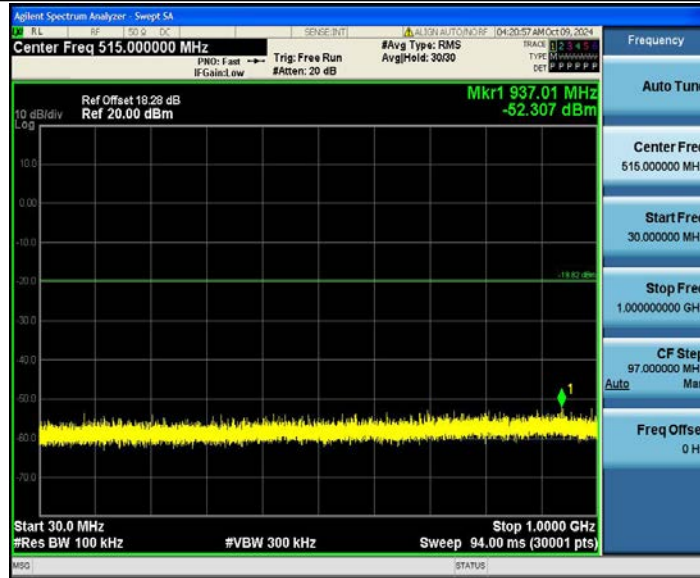
11B_Ant1_2462_1000~26500



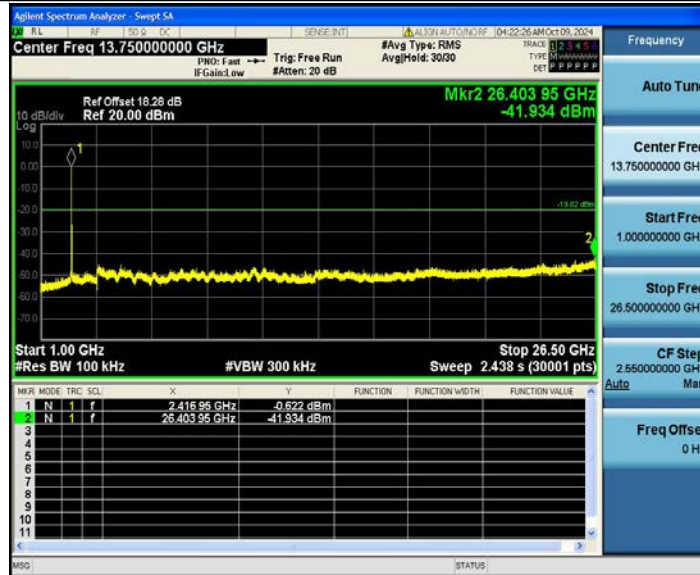
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



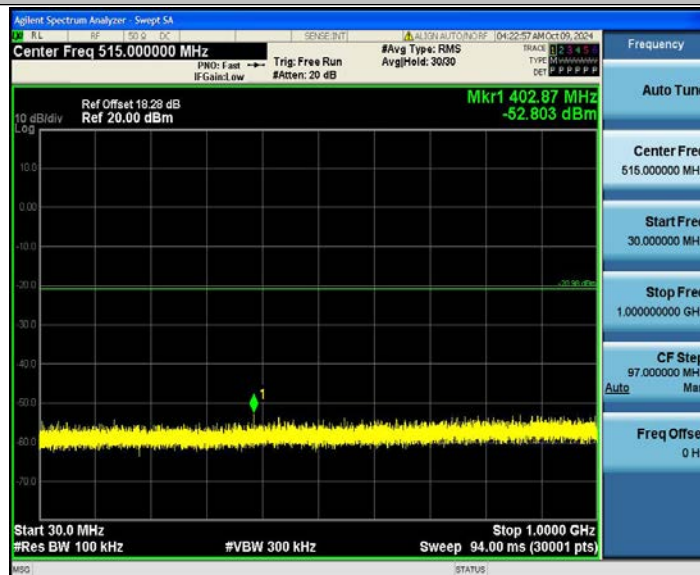
11G_Ant1_2412_1000~26500



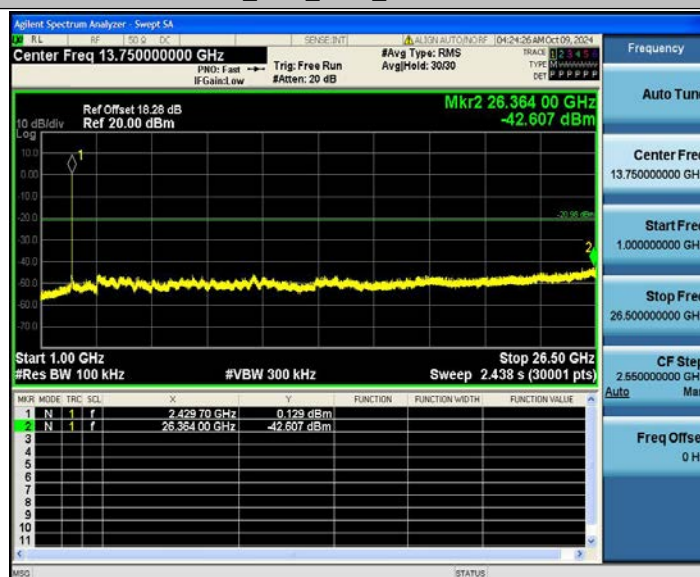
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



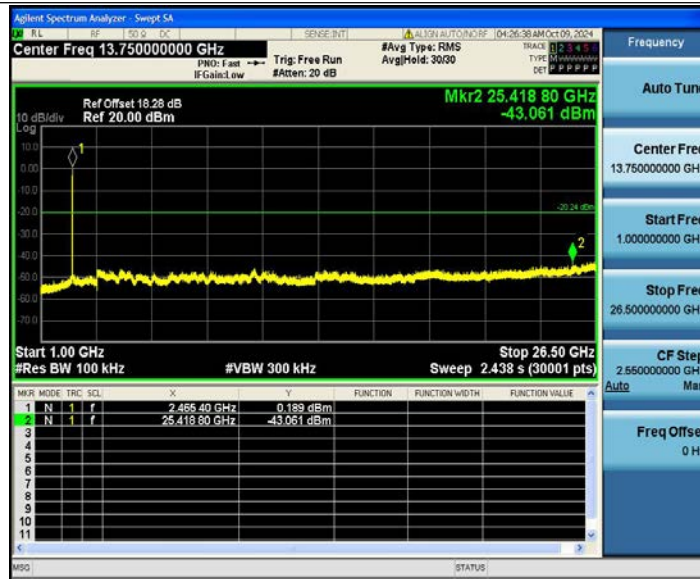
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



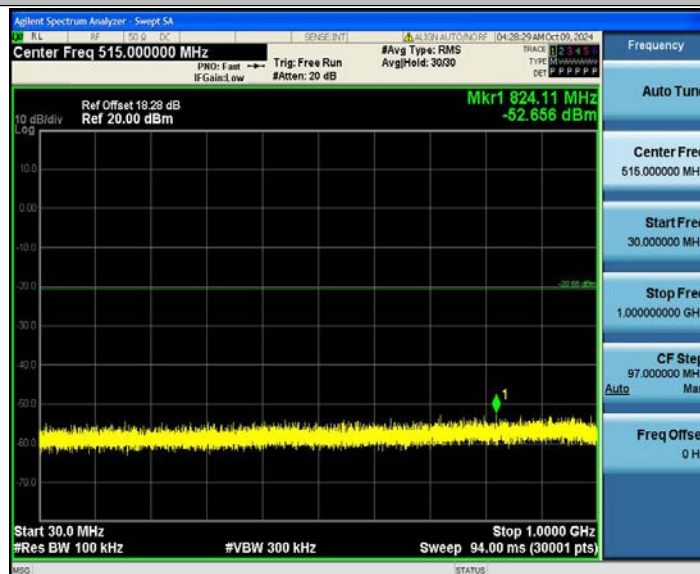
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



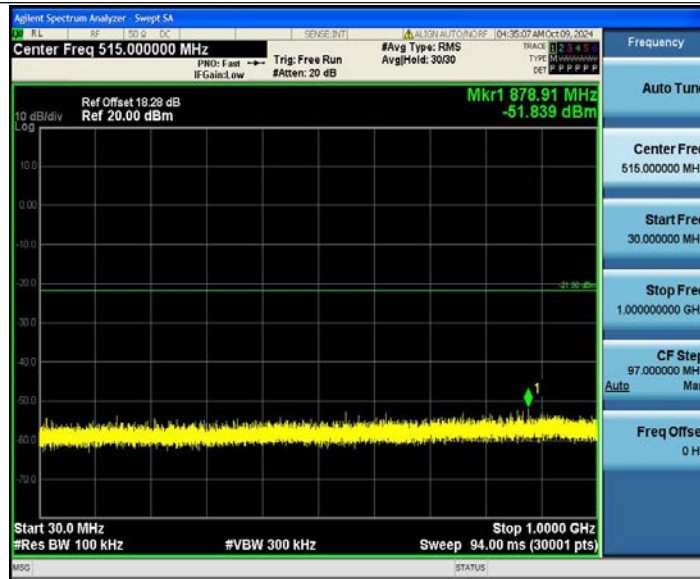
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



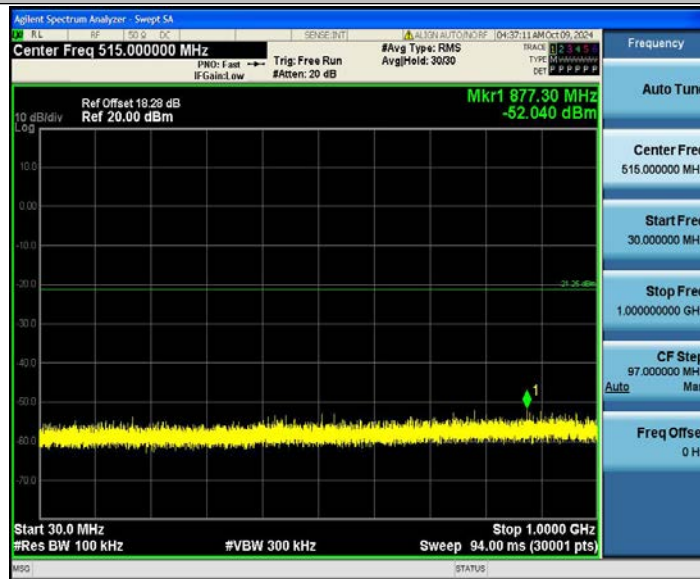
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



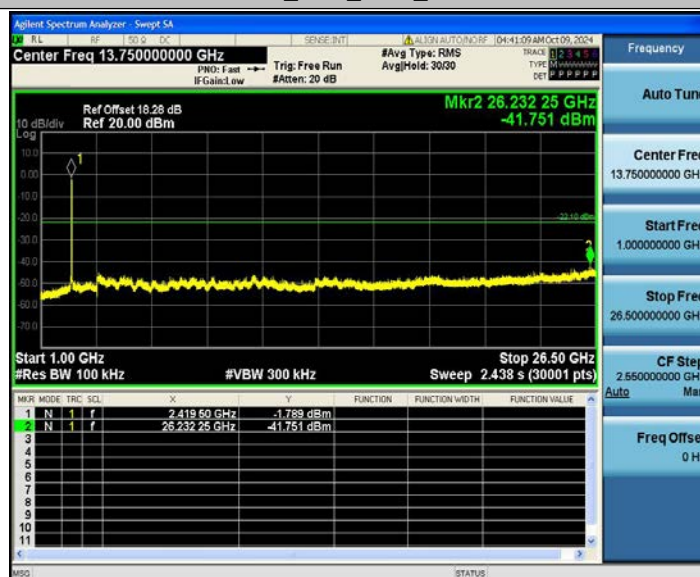
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



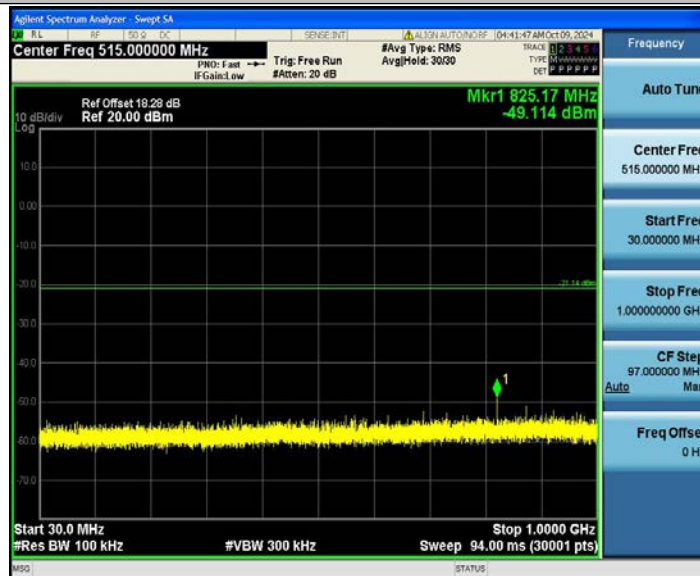
11N40SISO_Ant1_2422_1000~26500



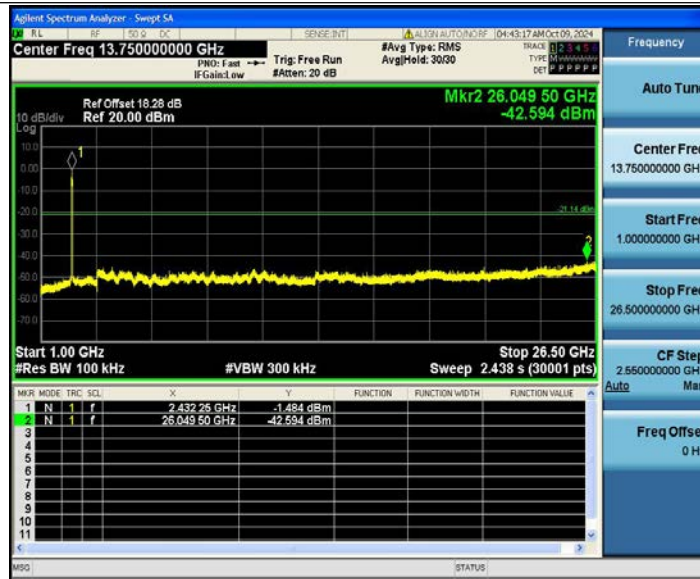
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



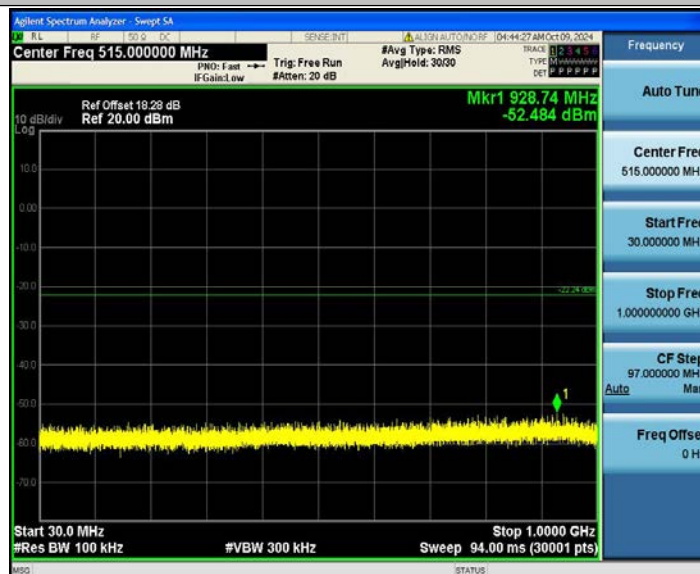
11N40SISO_Ant1_2437_1000~26500

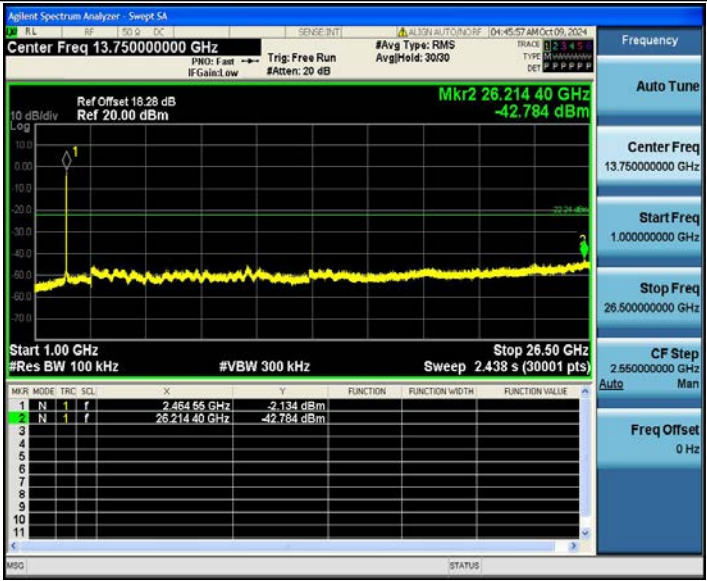


11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



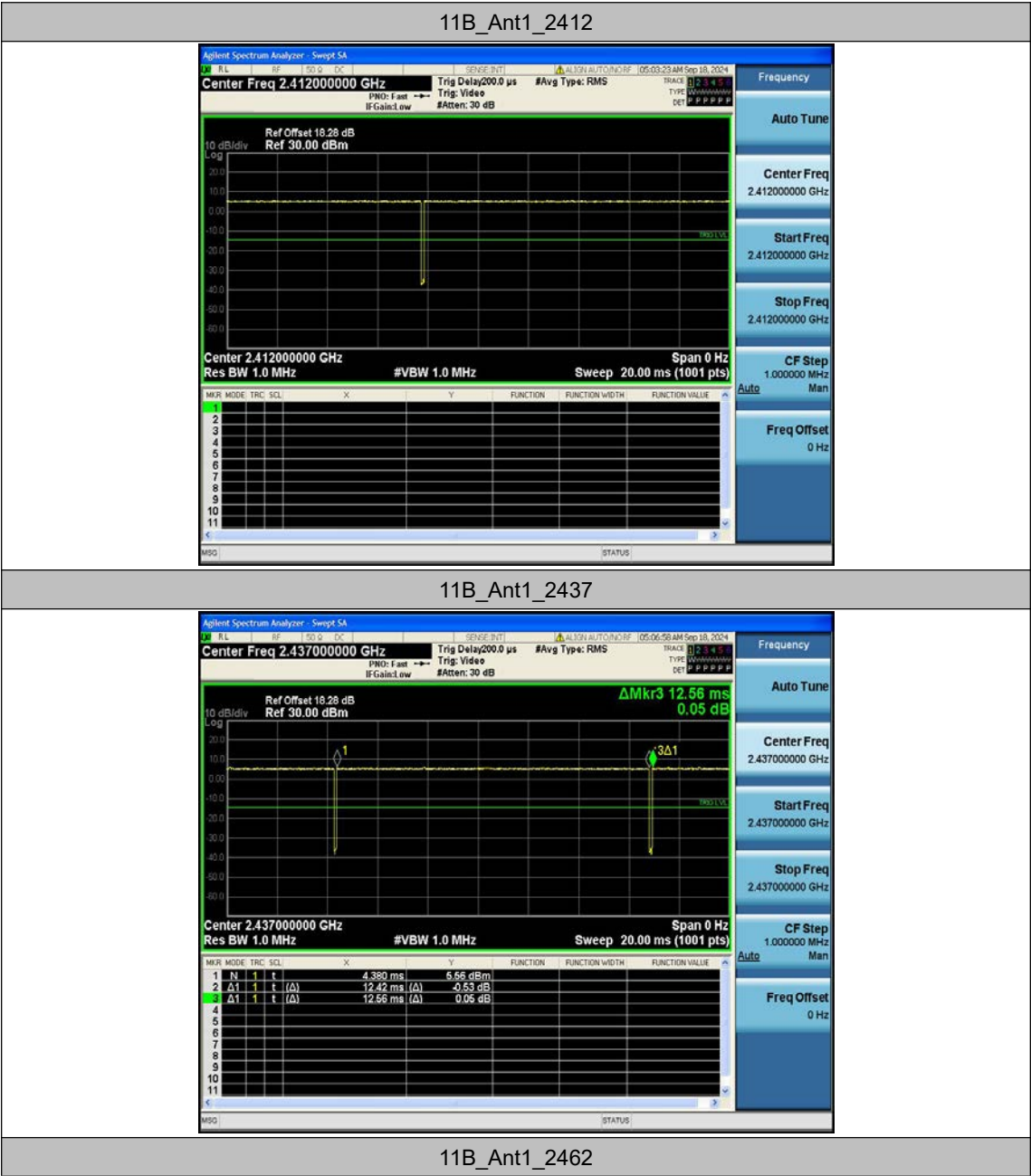


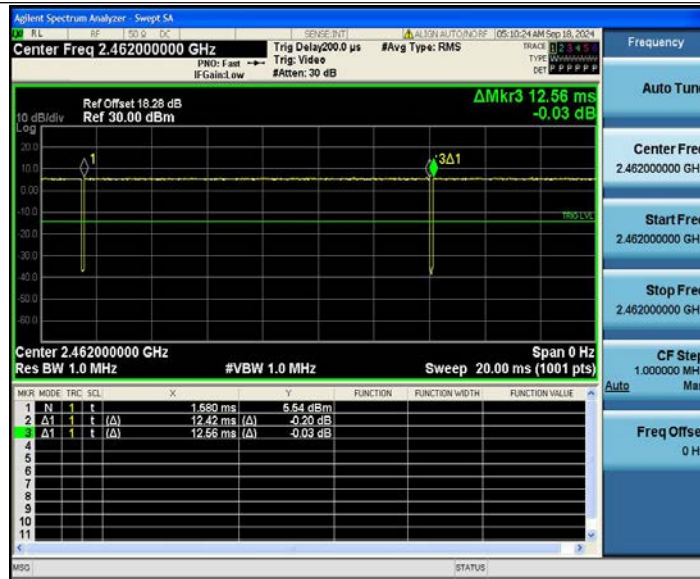
Appendix G: Duty Cycle

Test Result

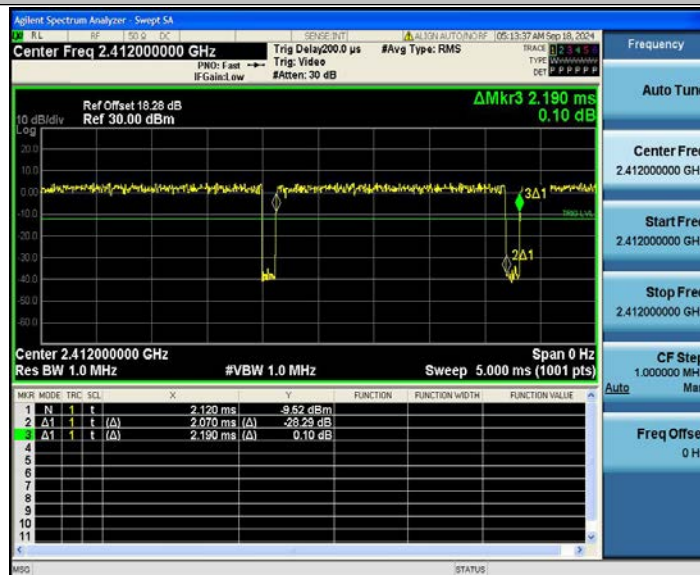
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	20.00	20.00	100.00	---	---
		2437	12.42	12.56	98.89	---	---
		2462	12.42	12.56	98.89	---	---
11G	Ant1	2412	2.07	2.19	94.52	---	---
		2437	2.07	2.19	94.52	---	---
		2462	2.06	2.19	94.06	---	---
11N20SISO	Ant1	2412	1.92	2.05	93.66	---	---
		2437	1.92	2.05	93.66	---	---
		2462	1.92	2.05	93.66	---	---
11N40SISO	Ant1	2422	0.95	1.08	87.96	---	---
		2437	0.94	1.08	87.04	---	---
		2452	0.95	1.08	87.96	---	---

Test Graphs

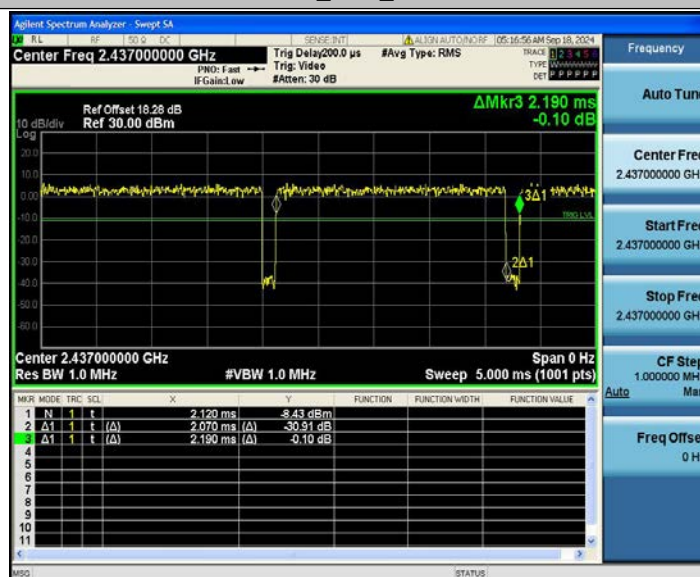




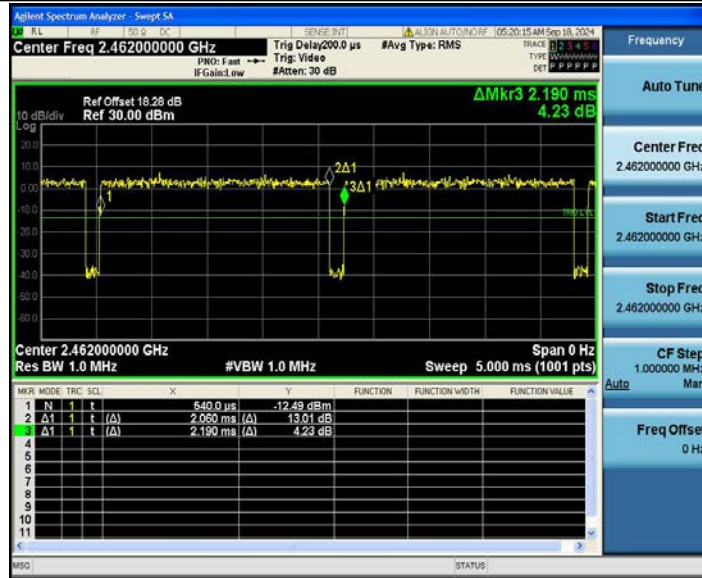
11G_Ant1_2412



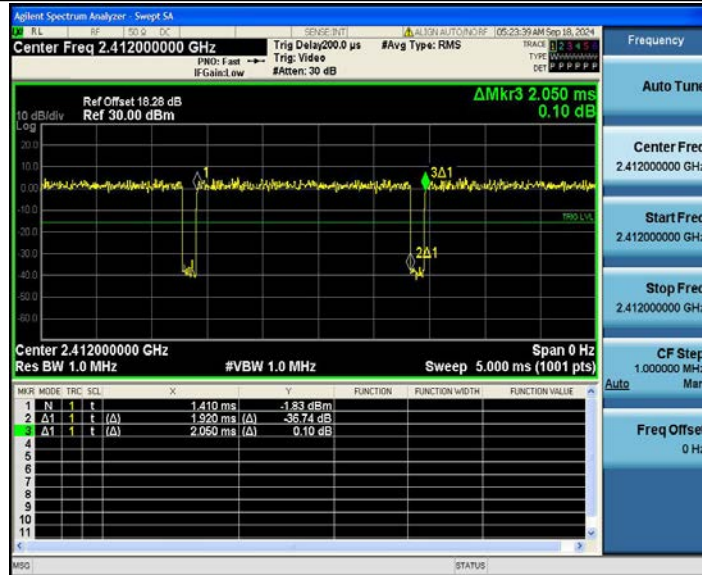
11G_Ant1_2437



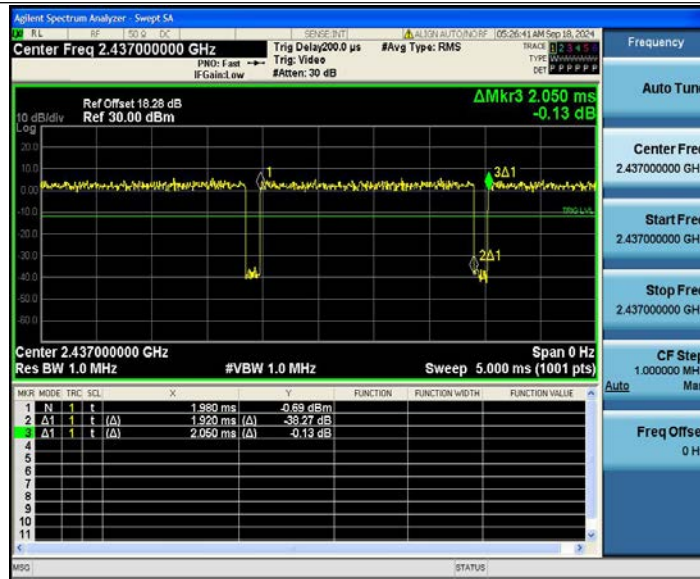
11G_Ant1_2462



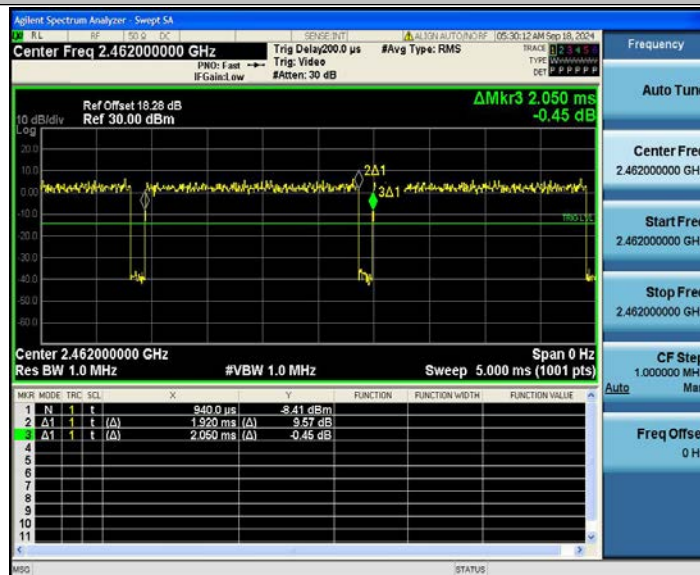
11N20SISO_Ant1_2412



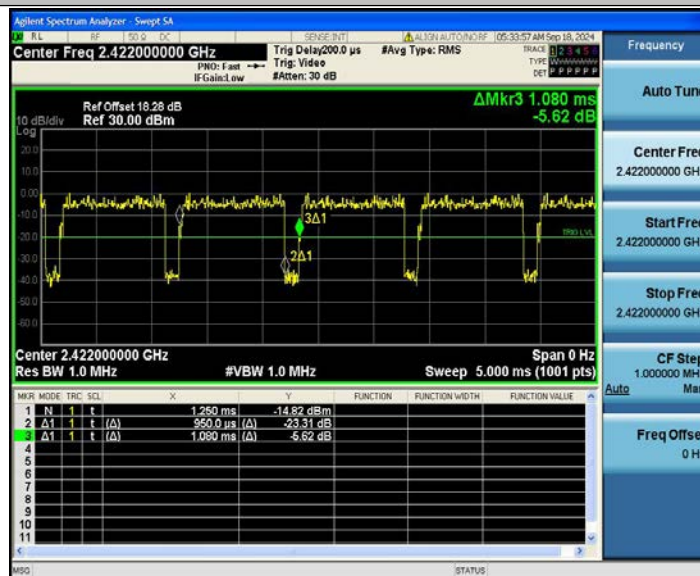
11N20SISO_Ant1_2437



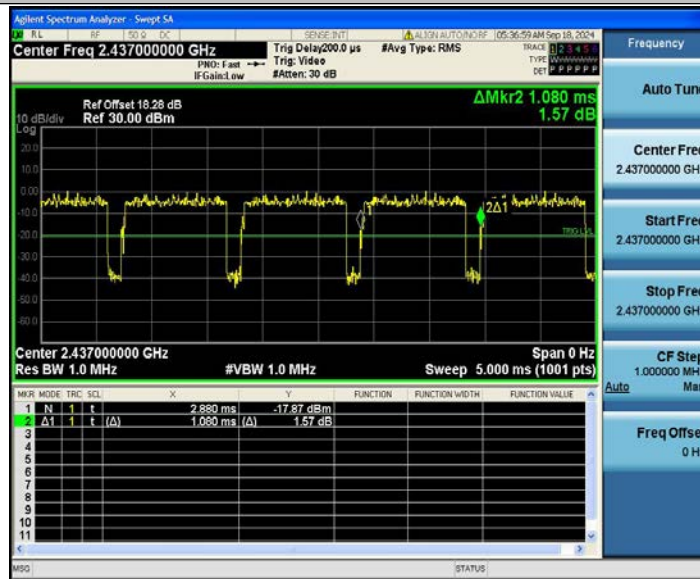
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

