

Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AXCX-NT510PRO

Company : Shenzhen Foxwell Technology Co., Ltd

EUT : Multi-System Scanner&Battery Tester

Model Number : NT510Pro

Report No. : CTA25081402001

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	8.920	2407.600	2416.520	0.5	PASS
		2437	8.840	2432.480	2441.320	0.5	PASS
		2462	8.760	2457.560	2466.320	0.5	PASS
11G	Ant1	2412	16.320	2403.920	2420.240	0.5	PASS
		2437	16.320	2428.880	2445.200	0.5	PASS
		2462	16.400	2453.840	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.360	2420.600	0.5	PASS
		2437	17.320	2428.440	2445.760	0.5	PASS
		2462	17.360	2453.400	2470.760	0.5	PASS
11N40SISO	Ant1	2422	34.000	2405.280	2439.280	0.5	PASS
		2437	34.400	2419.960	2454.360	0.5	PASS
		2452	34.000	2435.120	2469.120	0.5	PASS

Test Graphs

11B_Ant1_2412



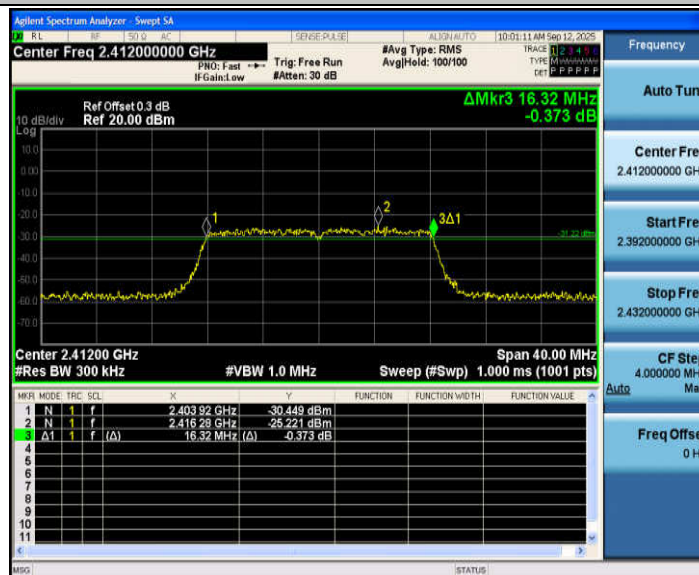
11B_Ant1_2437



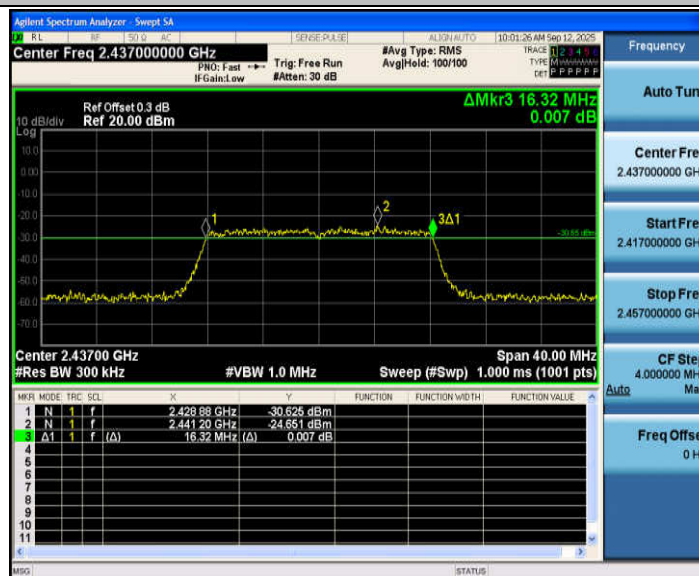
11B_Ant1_2462



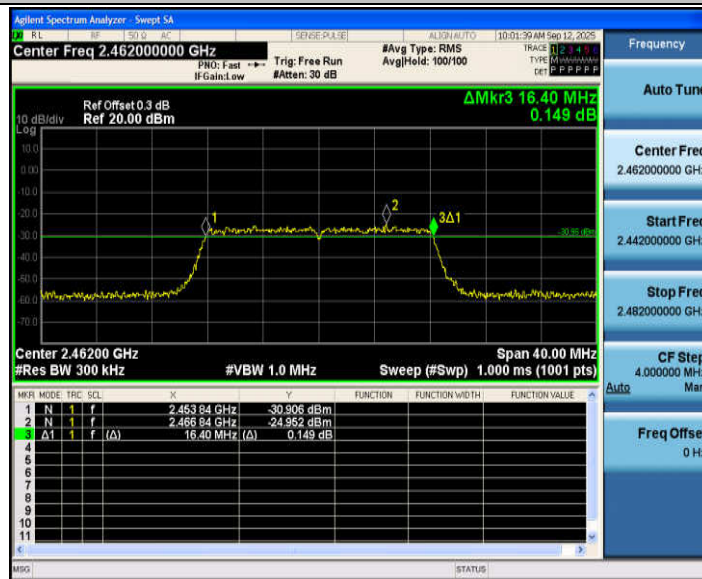
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



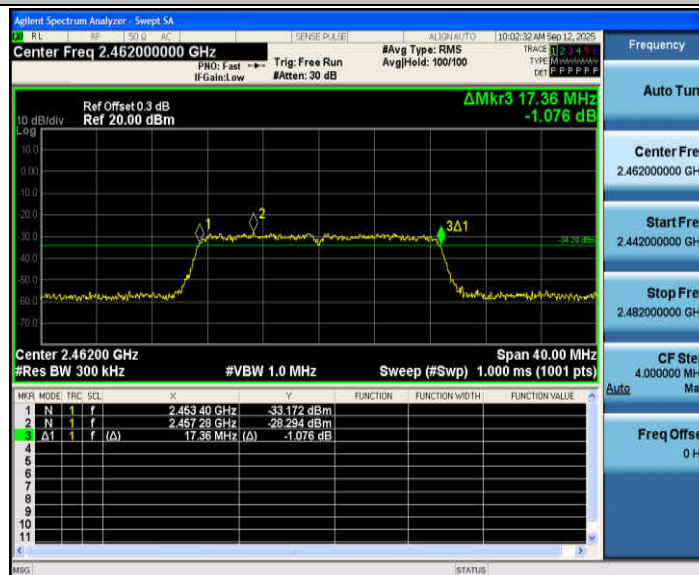
11N20SISO_Ant1_2412



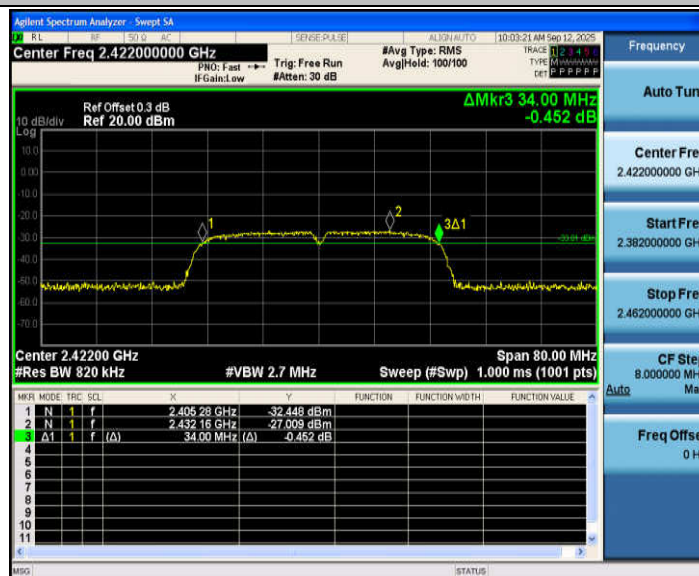
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



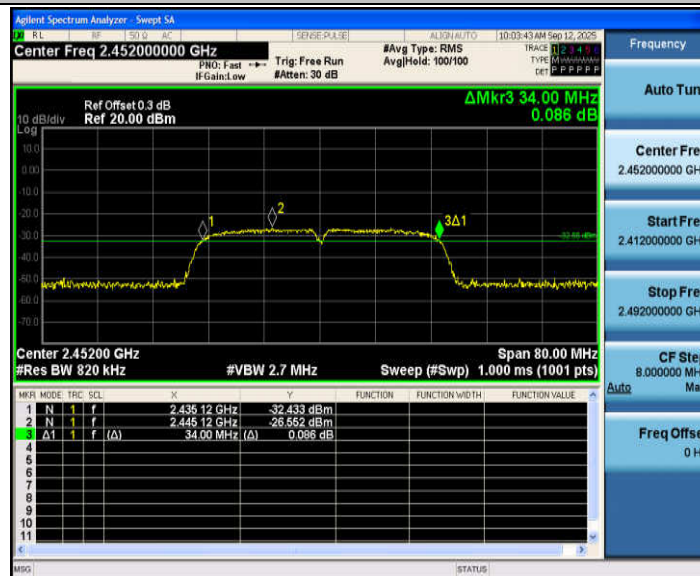
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



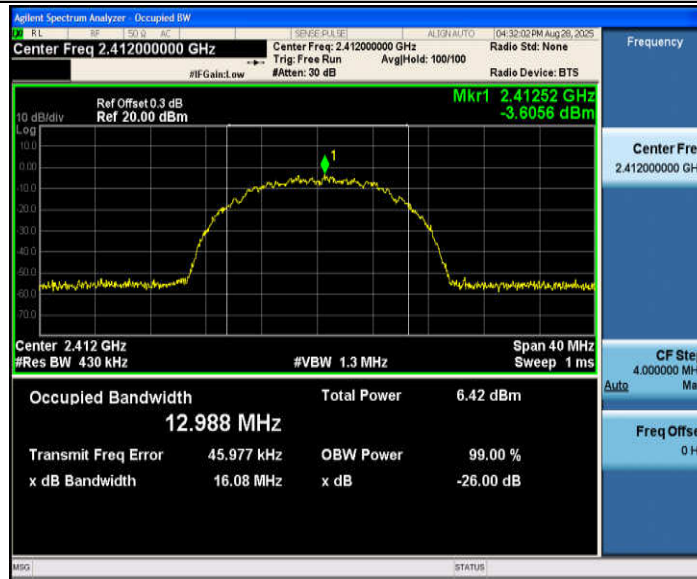
Appendix B: Occupied Channel Bandwidth

Test Result

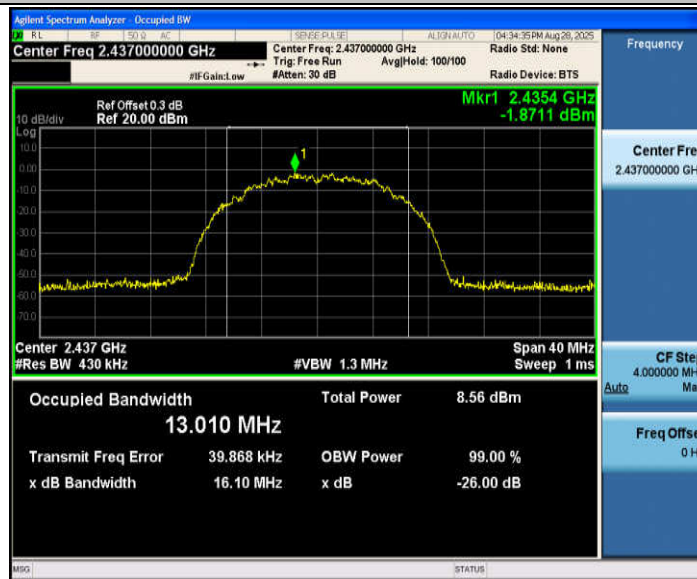
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.988	2405.5520	2418.5400	---	---
		2437	13.010	2430.5349	2443.5449	---	---
		2462	12.979	2455.5477	2468.5267	---	---
11G	Ant1	2412	16.612	2403.7541	2420.3661	---	---
		2437	16.583	2428.7554	2445.3384	---	---
		2462	16.611	2453.7184	2470.3294	---	---
11N20SISO	Ant1	2412	17.460	2403.3323	2420.7923	---	---
		2437	17.441	2428.3352	2445.7762	---	---
		2462	17.456	2453.3008	2470.7568	---	---
11N40SISO	Ant1	2422	34.734	2404.8416	2439.5756	---	---
		2437	34.849	2419.7463	2454.5953	---	---
		2452	34.835	2434.7146	2469.5496	---	---

Test Graphs

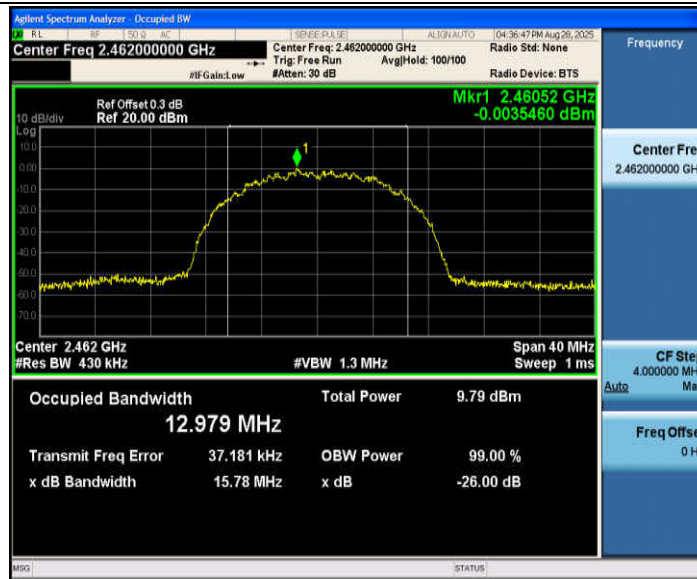
11B_Ant1_2412



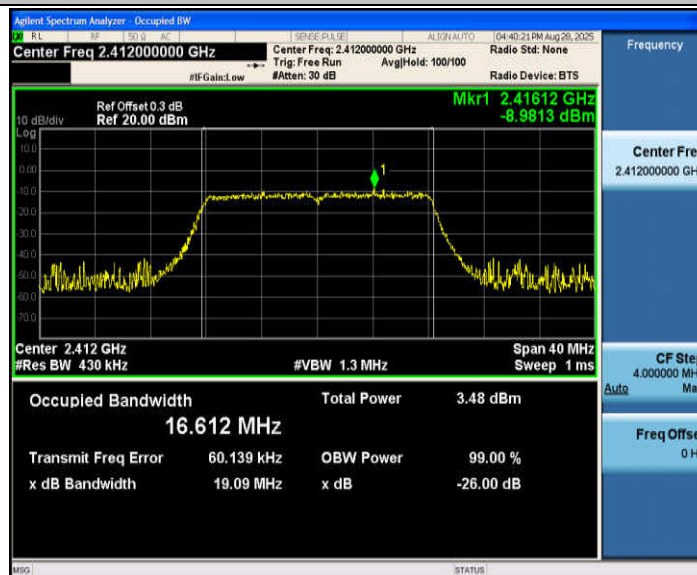
11B_Ant1_2437



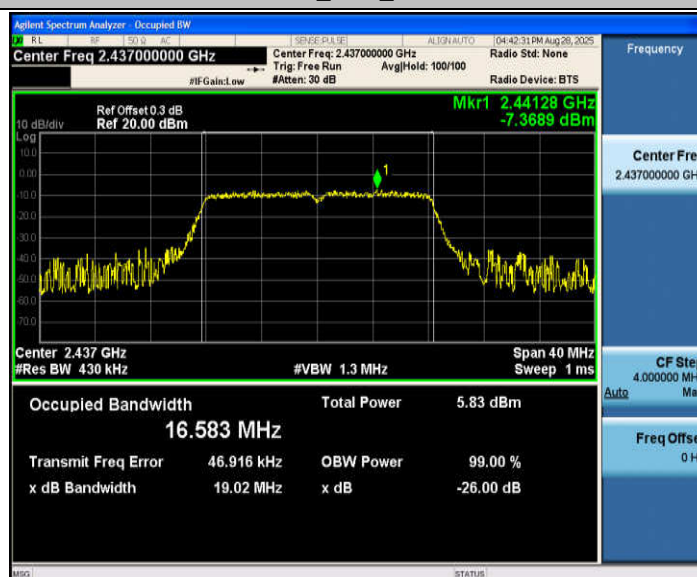
11B_Ant1_2462



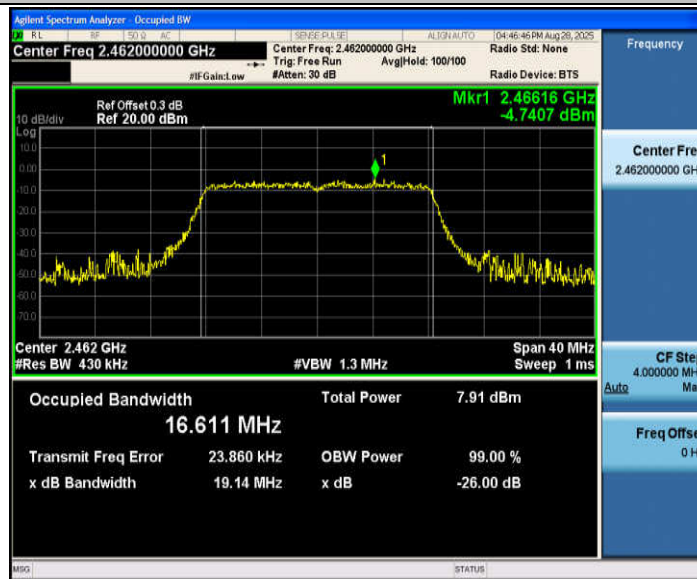
11G_Ant1_2412



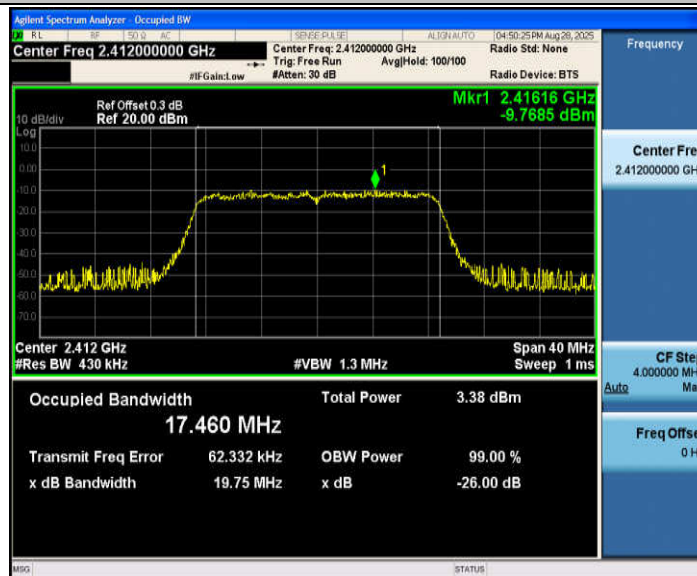
11G_Ant1_2437



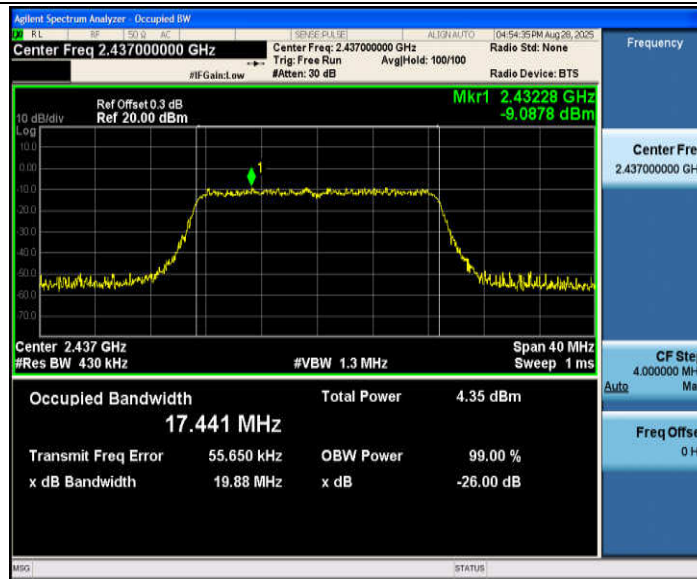
11G_Ant1_2462



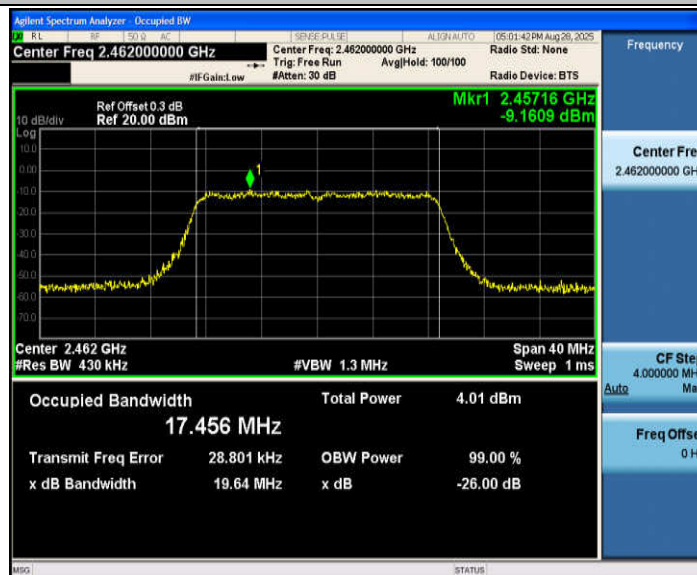
11N20SISO_Ant1_2412



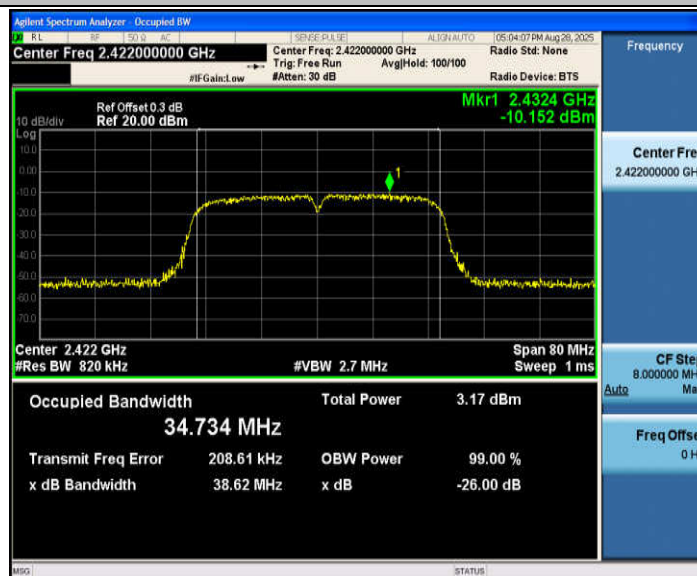
11N20SISO_Ant1_2437



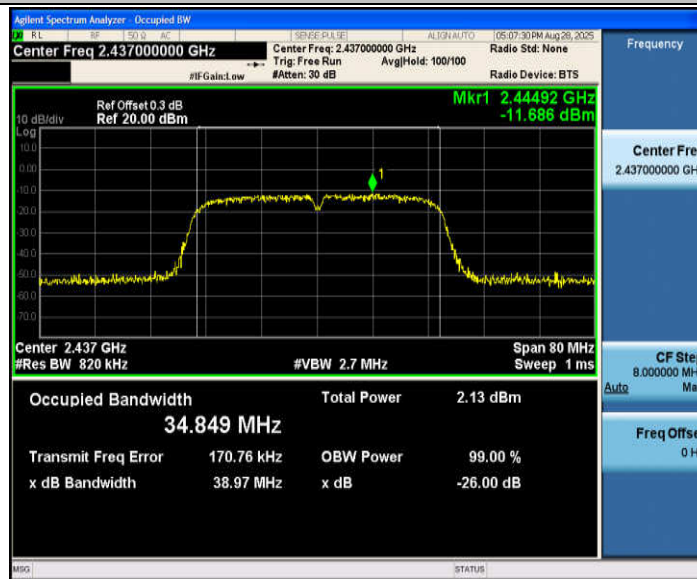
11N20SISO_Ant1_2462



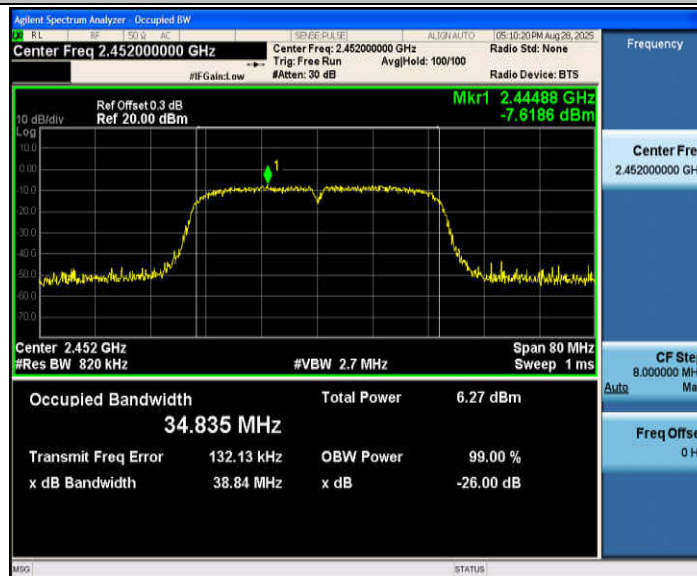
11N40SISO_Ant1_2422



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	5.85	≤30.00	PASS
		2437	4.93	≤30.00	PASS
		2462	4.87	≤30.00	PASS
11G	Ant1	2412	4.33	≤30.00	PASS
		2437	4.57	≤30.00	PASS
		2462	4.80	≤30.00	PASS
11N20SISO	Ant1	2412	4.70	≤30.00	PASS
		2437	4.58	≤30.00	PASS
		2462	5.14	≤30.00	PASS
11N40SISO	Ant1	2422	3.31	≤30.00	PASS
		2437	3.97	≤30.00	PASS
		2452	4.44	≤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	-23.13	≤8.00	PASS
		2437	-23.92	≤8.00	PASS
		2462	-24.21	≤8.00	PASS
11G	Ant1	2412	-30.00	≤8.00	PASS
		2437	-29.78	≤8.00	PASS
		2462	-29.52	≤8.00	PASS
11N20SISO	Ant1	2412	-30.07	≤8.00	PASS
		2437	-29.99	≤8.00	PASS
		2462	-29.24	≤8.00	PASS
11N40SISO	Ant1	2422	-31.90	≤8.00	PASS
		2437	-31.42	≤8.00	PASS
		2452	-30.11	≤8.00	PASS

Test Graphs

11B_Ant1_2412



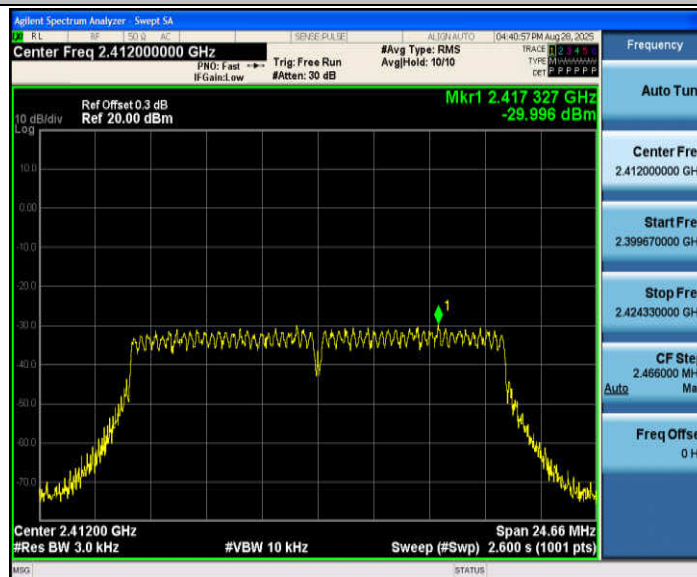
11B_Ant1_2437



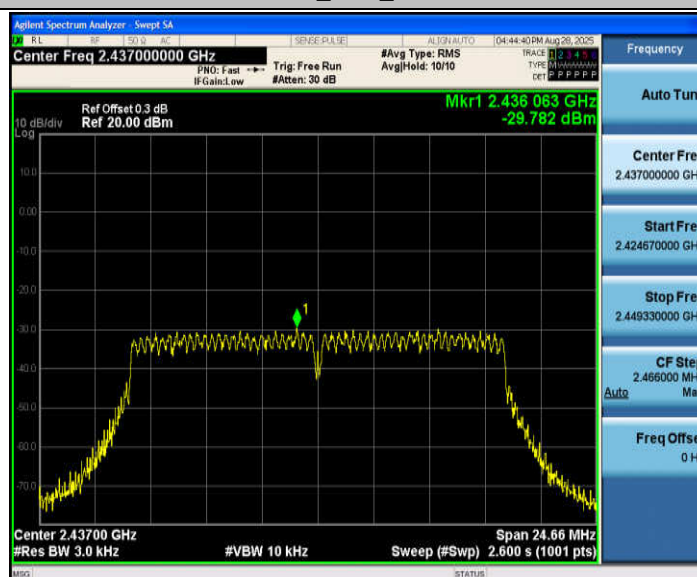
11B_Ant1_2462



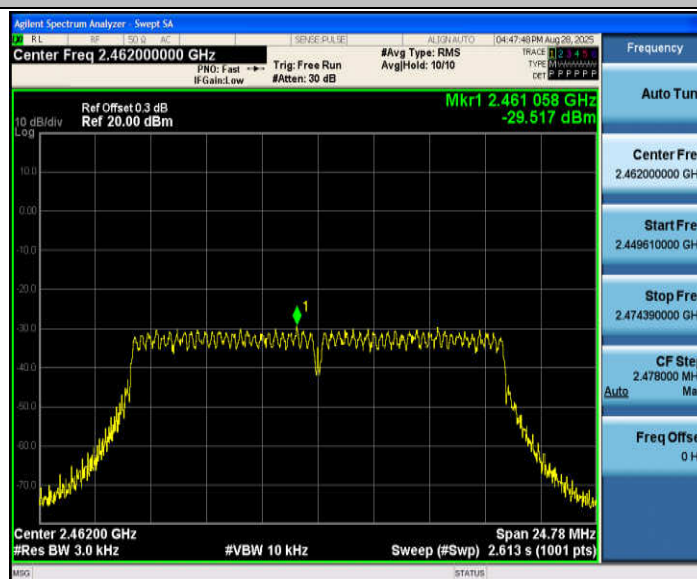
11G_Ant1_2412



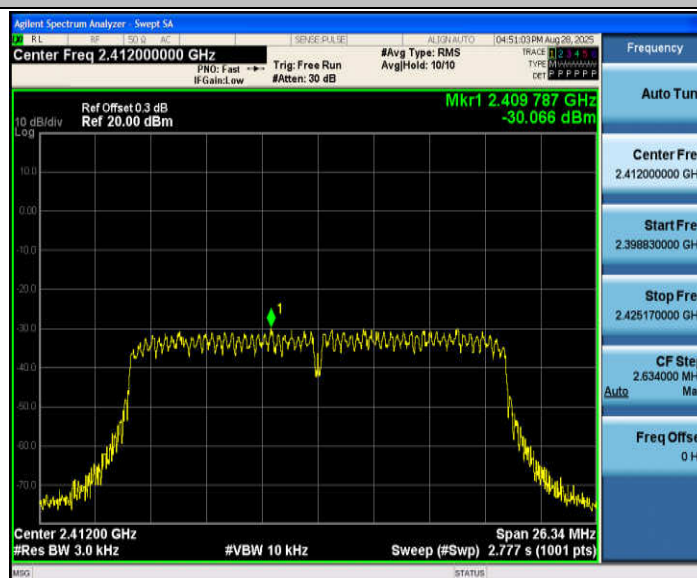
11G_Ant1_2437



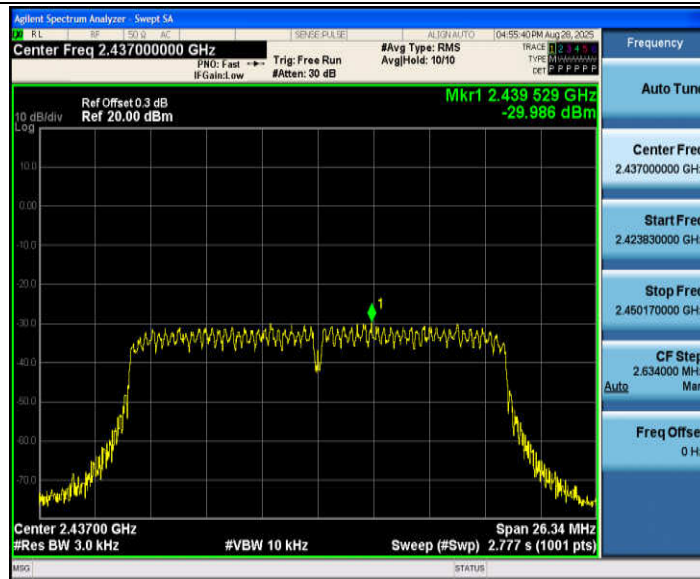
11G_Ant1_2462



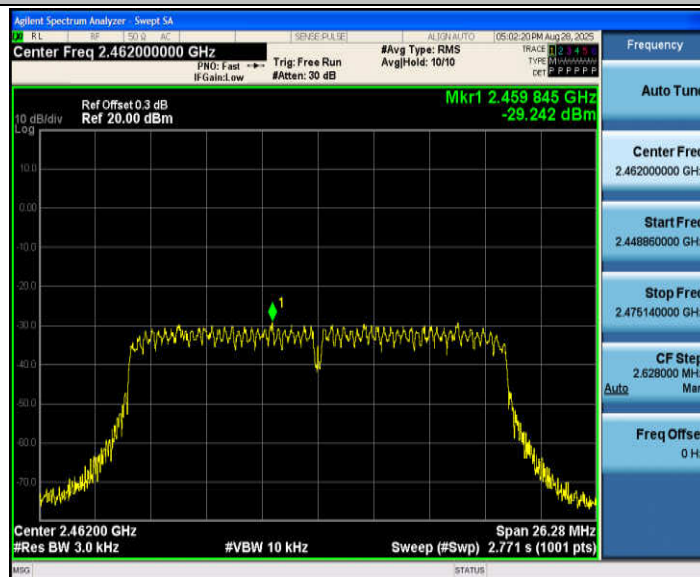
11N20SISO_Ant1_2412



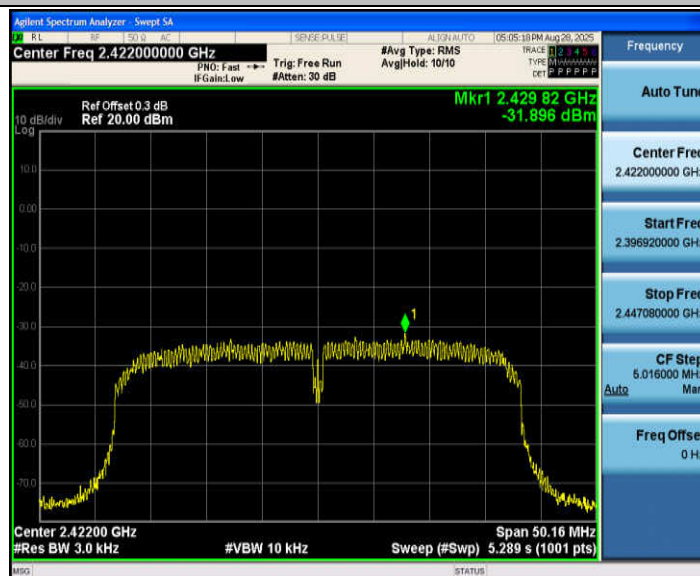
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



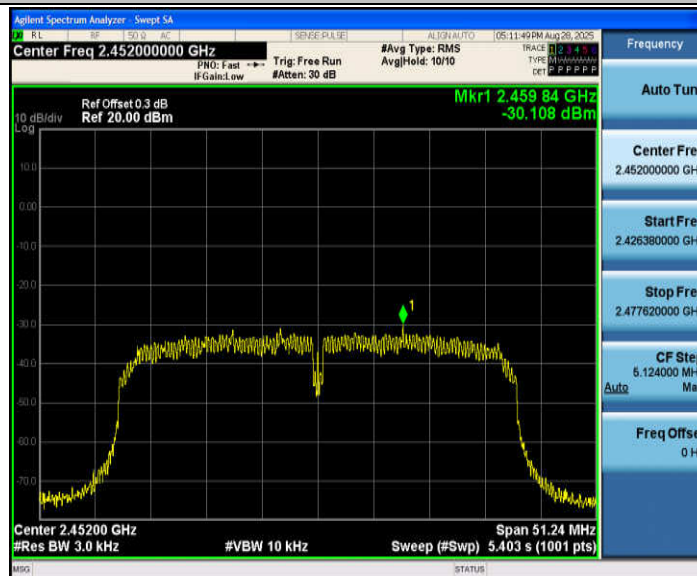
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



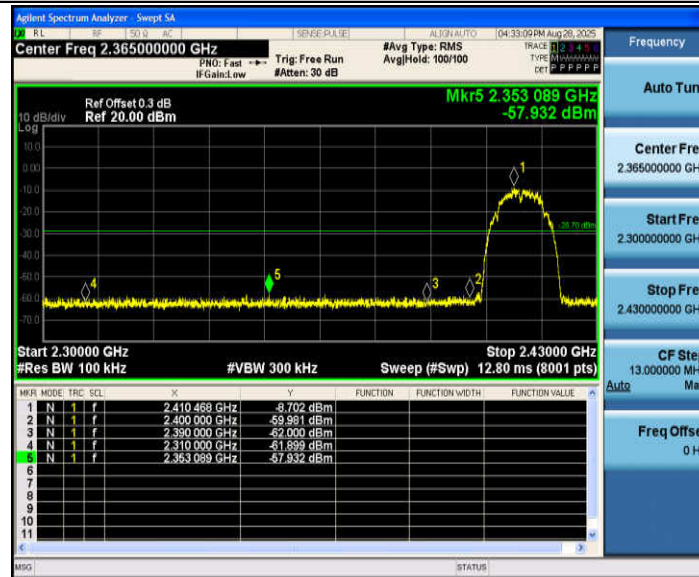
Appendix E: Band edge measurements

Test Result

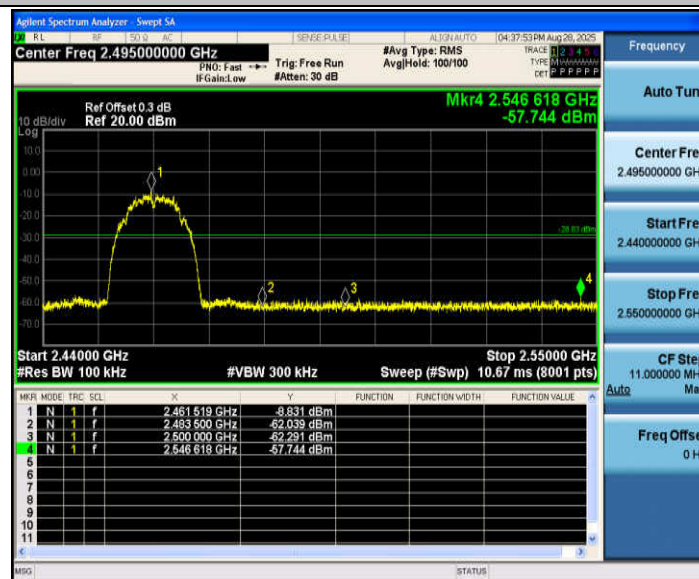
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-8.70	-57.93	≤-28.7	PASS
		High	2462	-8.83	-57.74	≤-28.83	PASS
11G	Ant1	Low	2412	-15.82	-51.71	≤-35.82	PASS
		High	2462	-15.55	-57.06	≤-35.55	PASS
11N20SISO	Ant1	Low	2412	-16.46	-54.75	≤-36.46	PASS
		High	2462	-15.22	-57.21	≤-35.22	PASS
11N40SISO	Ant1	Low	2422	-19.65	-58.4	≤-39.65	PASS
		High	2452	-18.45	-57.75	≤-38.45	PASS

Test Graphs

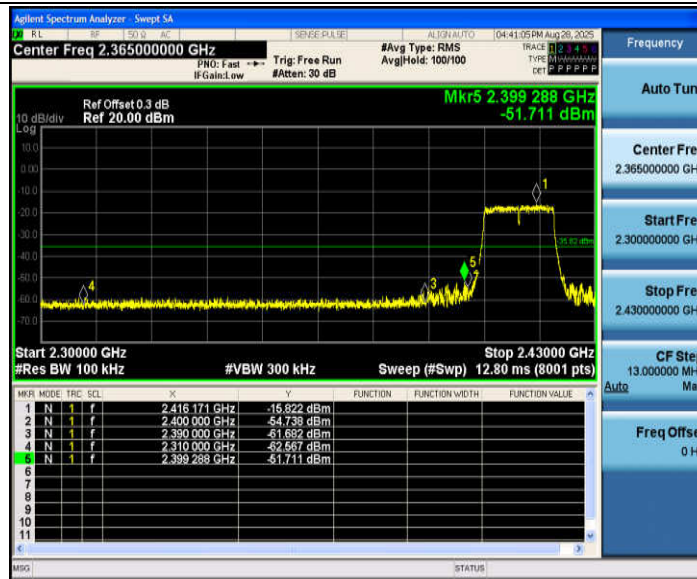
11B_Ant1_Low_2412



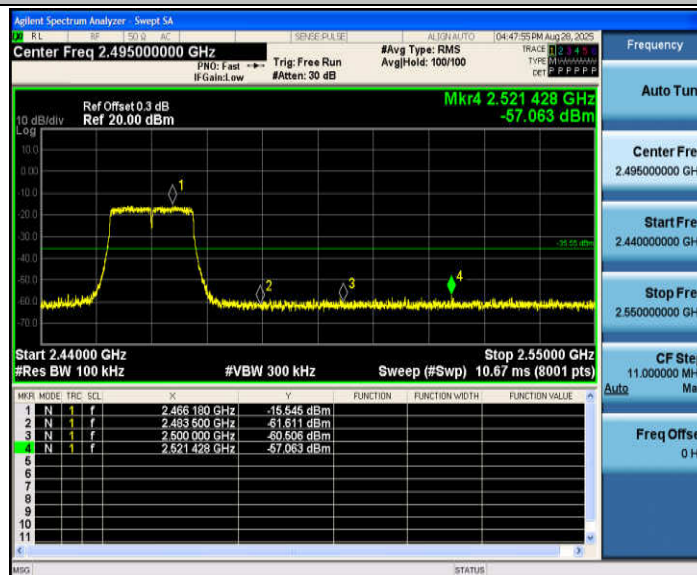
11B_Ant1_High_2462



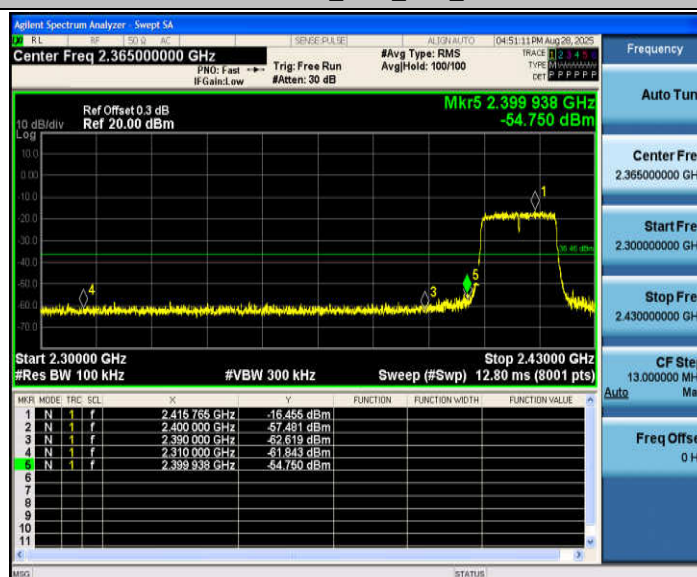
11G_Ant1_Low_2412



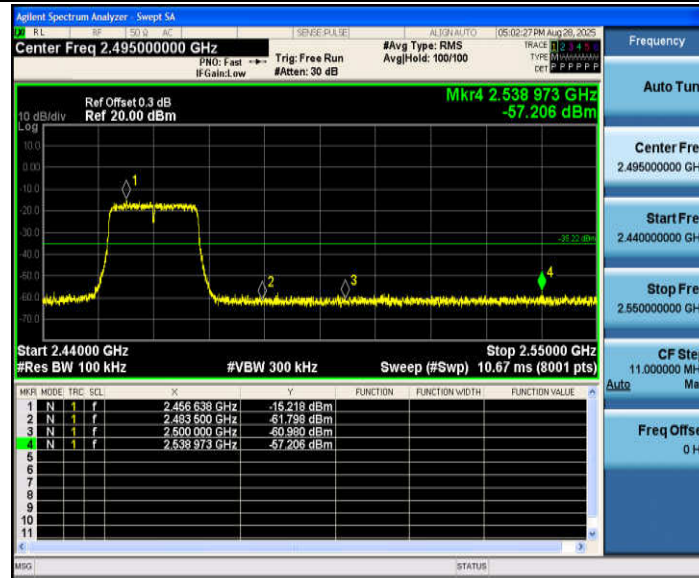
11G_Ant1_High_2462



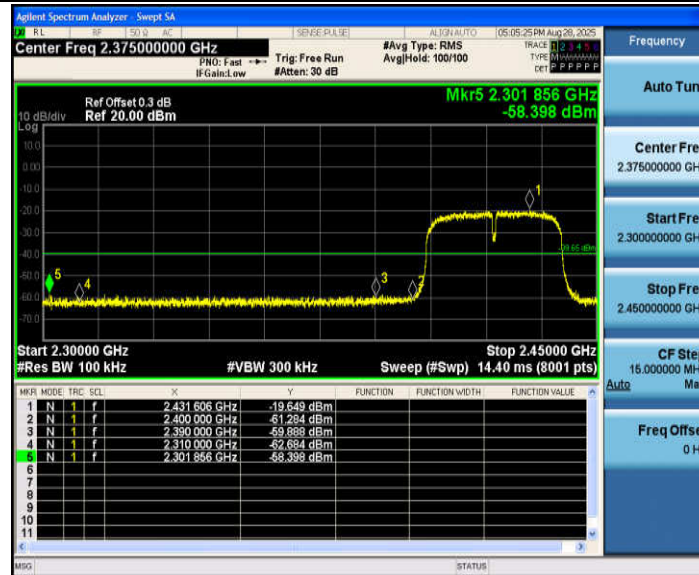
11N20SISO_Ant1_Low_2412



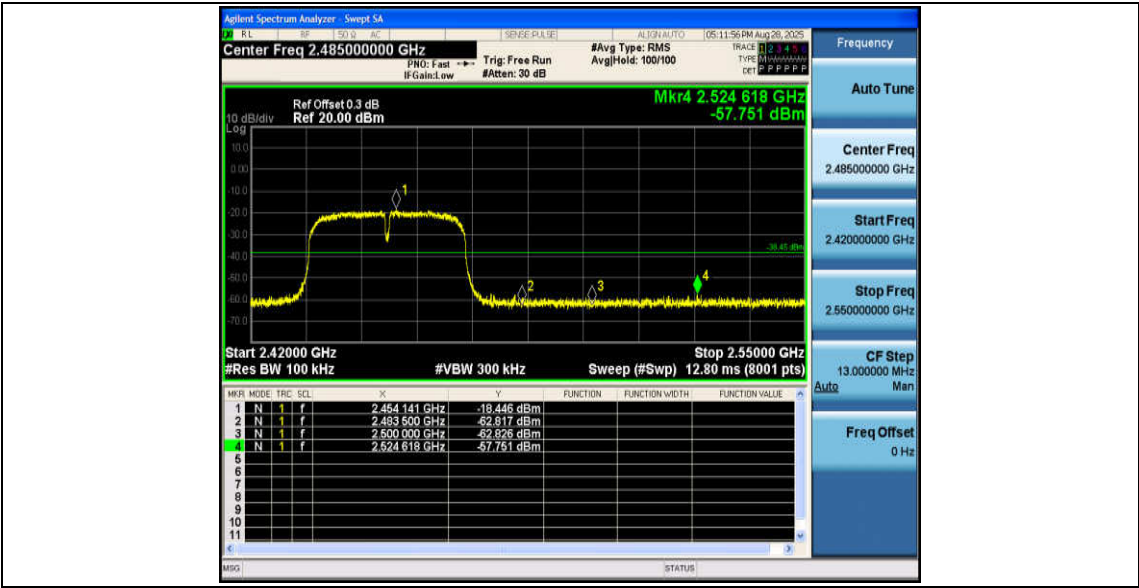
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



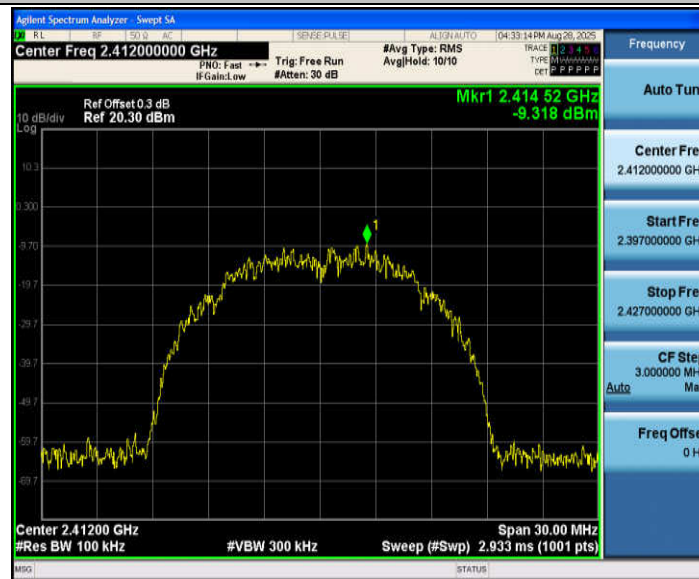
Appendix F: Conducted Spurious Emission

Test Result

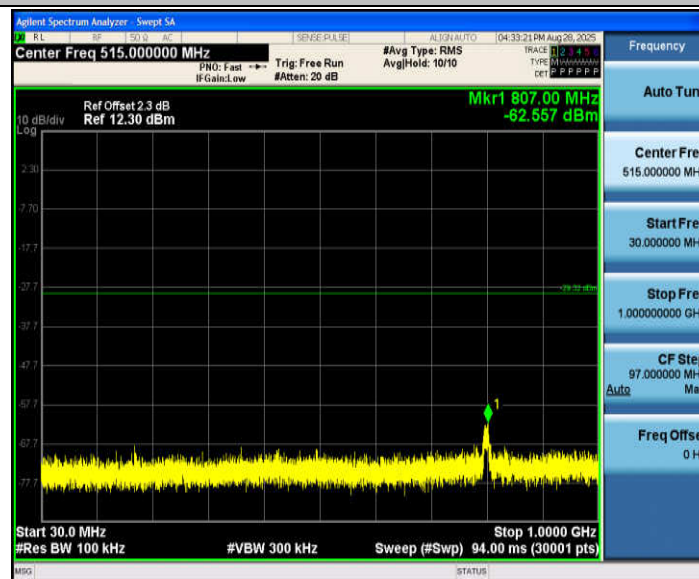
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-9.32	-9.32	---	PASS
			30~1000	-9.32	-62.56	≤-29.32	PASS
			1000~26500	-9.32	-44.41	≤-29.32	PASS
		2437	Reference	-8.75	-8.75	---	PASS
			30~1000	-8.75	-60.88	≤-28.75	PASS
			1000~26500	-8.75	-46.1	≤-28.75	PASS
		2462	Reference	-10.70	-10.70	---	PASS
			30~1000	-10.70	-60.46	≤-30.7	PASS
			1000~26500	-10.70	-46.46	≤-30.7	PASS
11G	Ant1	2412	Reference	-15.85	-15.85	---	PASS
			30~1000	-15.85	-65.17	≤-35.85	PASS
			1000~26500	-15.85	-44.37	≤-35.85	PASS
		2437	Reference	-16.46	-16.46	---	PASS
			30~1000	-16.46	-65.41	≤-36.46	PASS
			1000~26500	-16.46	-45.2	≤-36.46	PASS
		2462	Reference	-15.79	-15.79	---	PASS
			30~1000	-15.79	-65.19	≤-35.79	PASS
			1000~26500	-15.79	-45.73	≤-35.79	PASS
11N20SISO	Ant1	2412	Reference	-16.98	-16.98	---	PASS
			30~1000	-16.98	-63.97	≤-36.98	PASS
			1000~26500	-16.98	-44.36	≤-36.98	PASS
		2437	Reference	-16.80	-16.80	---	PASS
			30~1000	-16.80	-64.97	≤-36.8	PASS
			1000~26500	-16.80	-44.91	≤-36.8	PASS
		2462	Reference	-16.56	-16.56	---	PASS
			30~1000	-16.56	-51.1	≤-36.56	PASS
			1000~26500	-16.56	-45.67	≤-36.56	PASS
11N40SISO	Ant1	2422	Reference	-20.04	-20.04	---	PASS
			30~1000	-20.04	-67.05	≤-40.04	PASS
			1000~26500	-20.04	-44.58	≤-40.04	PASS
		2437	Reference	-19.44	-19.44	---	PASS
			30~1000	-19.44	-66.36	≤-39.44	PASS
			1000~26500	-19.44	-45.2	≤-39.44	PASS
		2452	Reference	-19.00	-19.00	---	PASS
			30~1000	-19.00	-66.4	≤-39	PASS
			1000~26500	-19.00	-45.47	≤-39	PASS

Test Graphs

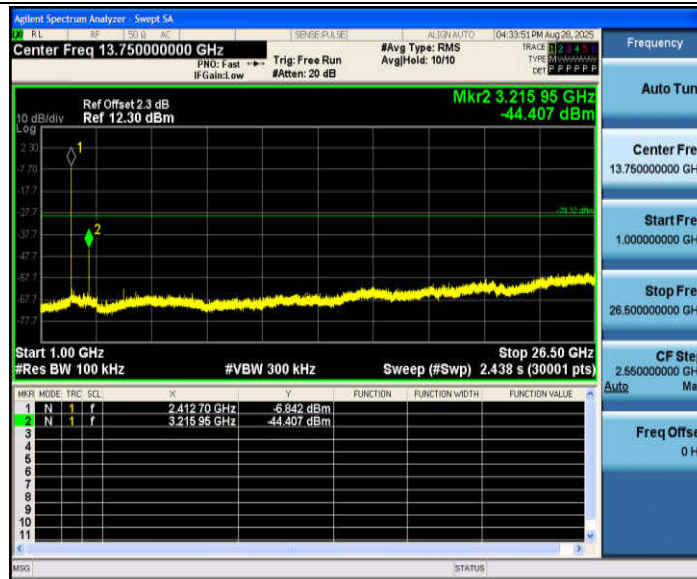
11B_Ant1_2412_0~Reference



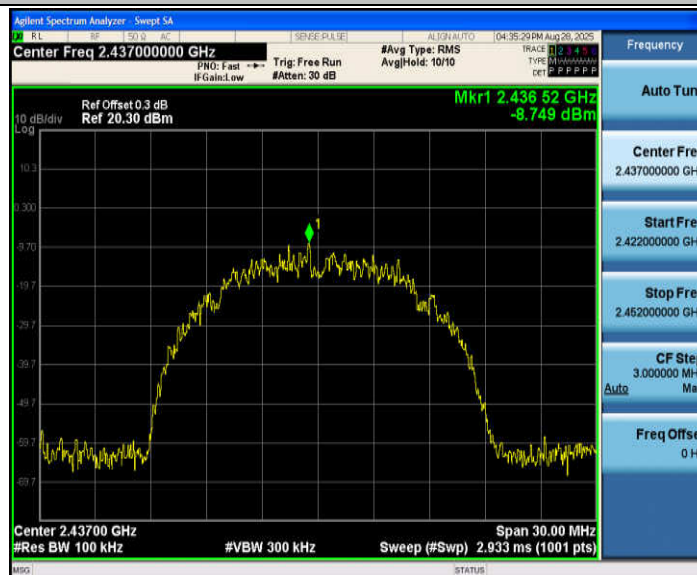
11B_Ant1_2412_30~1000



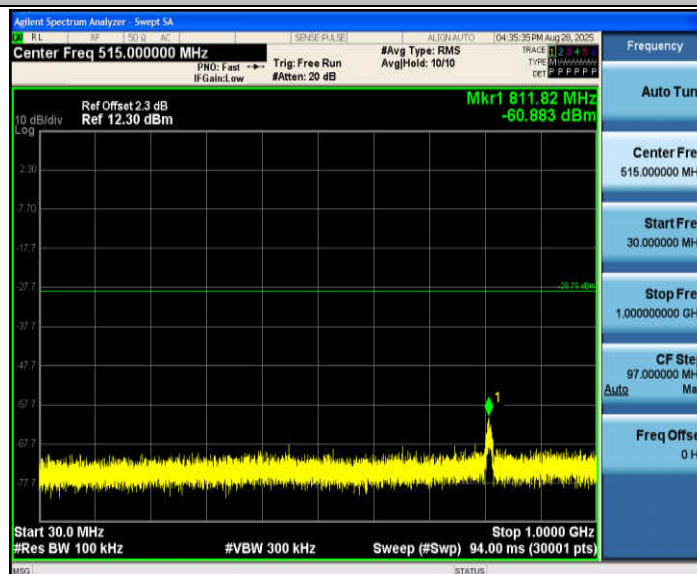
11B_Ant1_2412_1000~26500



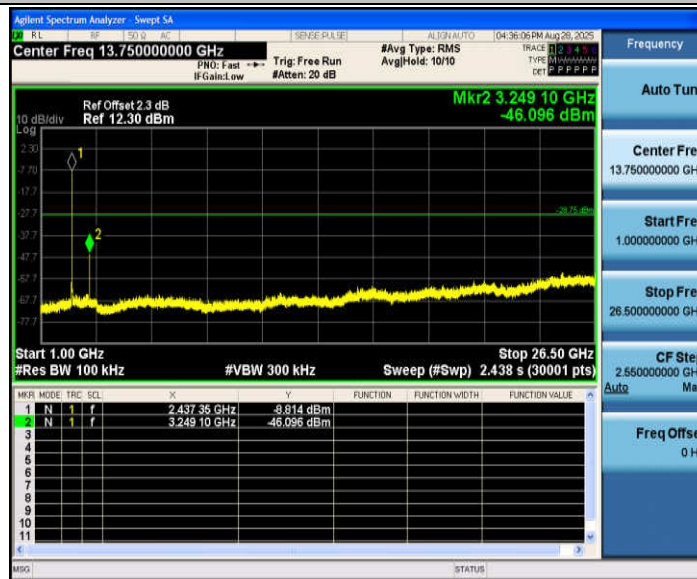
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



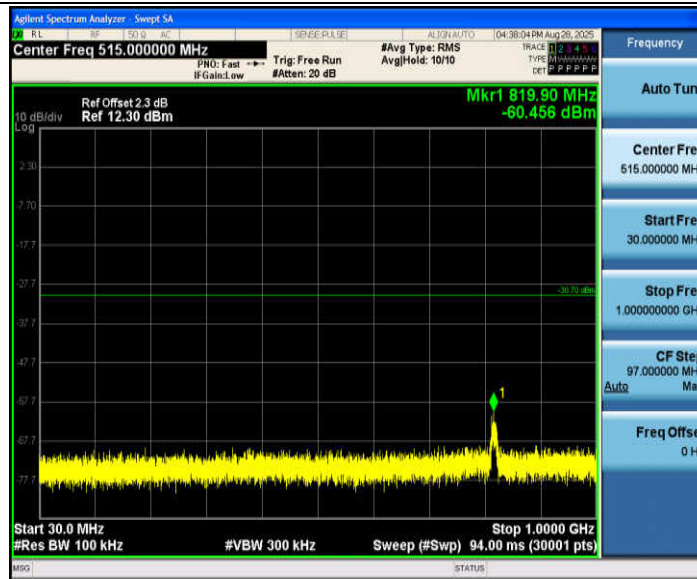
11B_Ant1_2437_1000~26500



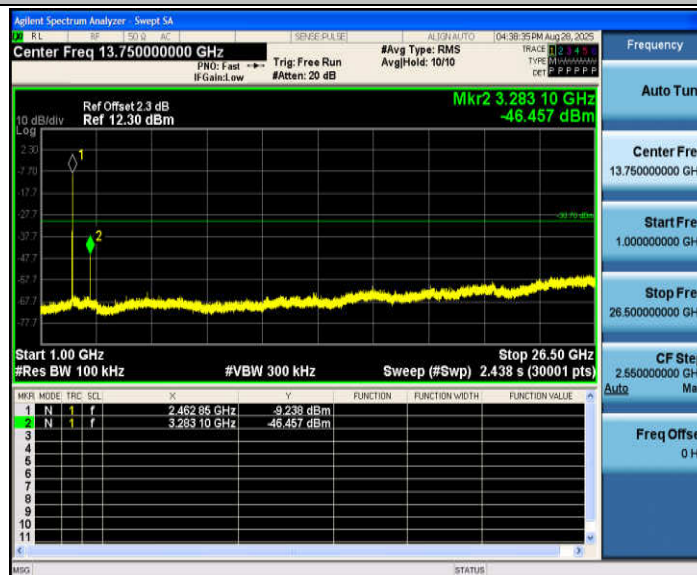
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



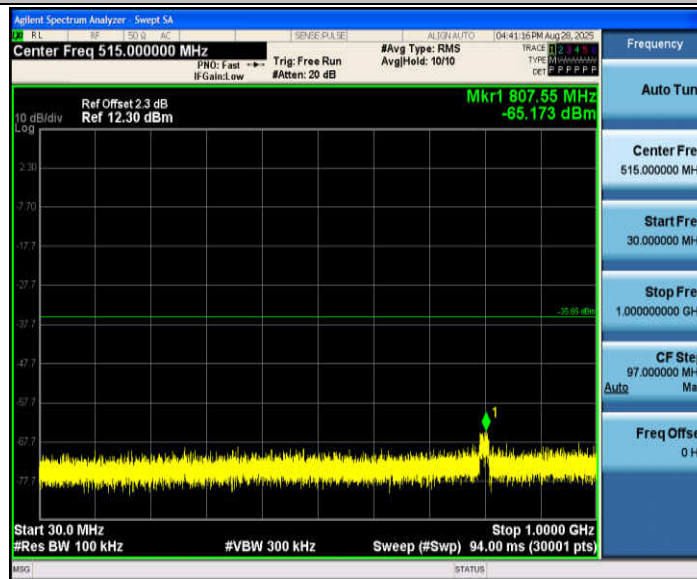
11B_Ant1_2462_1000~26500



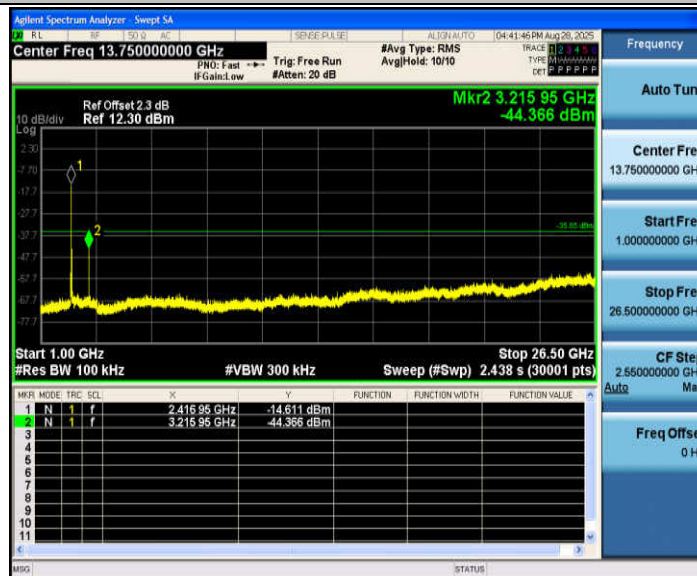
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



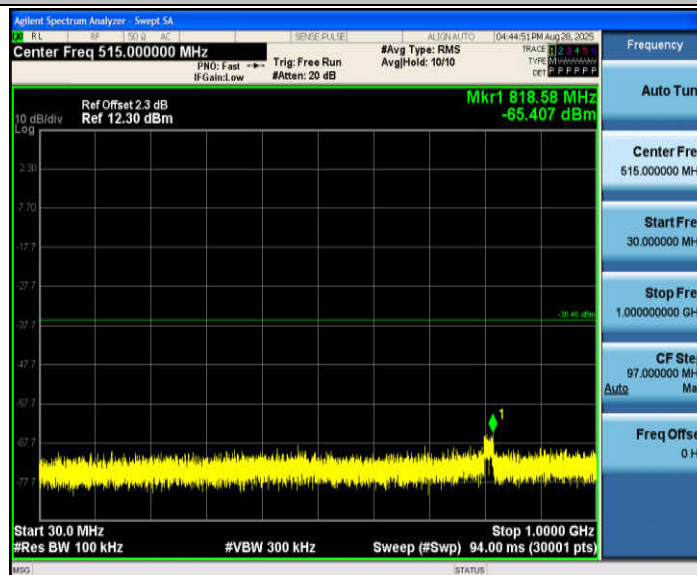
11G_Ant1_2412_1000~26500



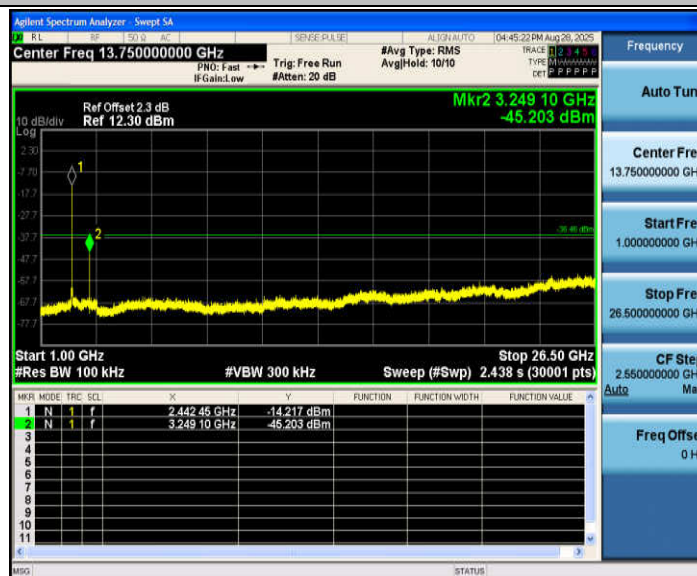
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



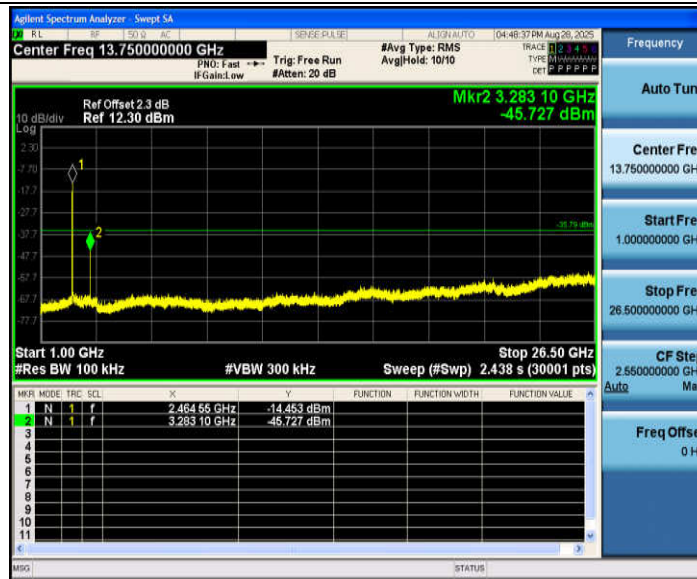
11G_Ant1_2462_0~Reference



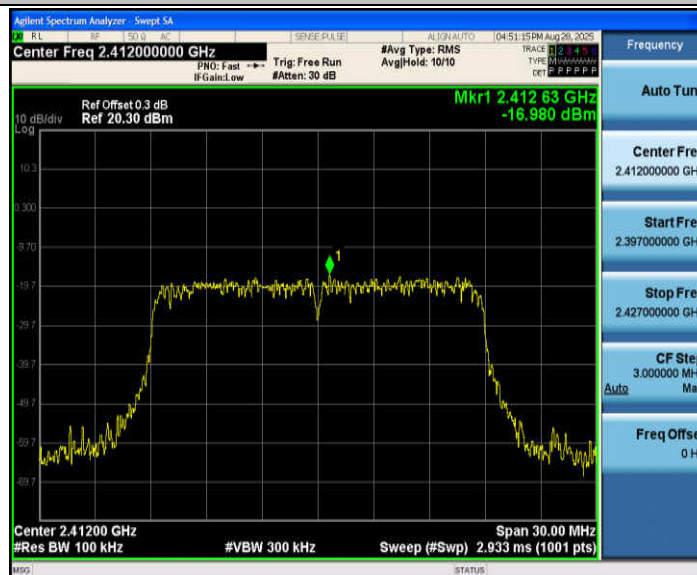
11G_Ant1_2462_30~1000



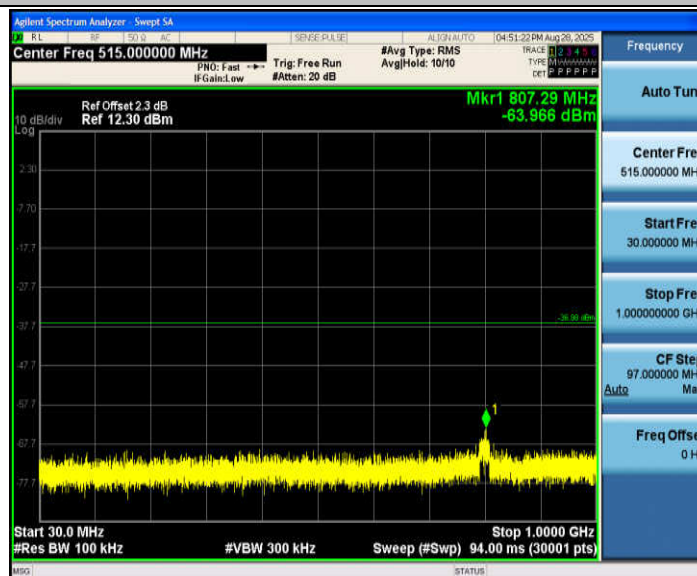
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



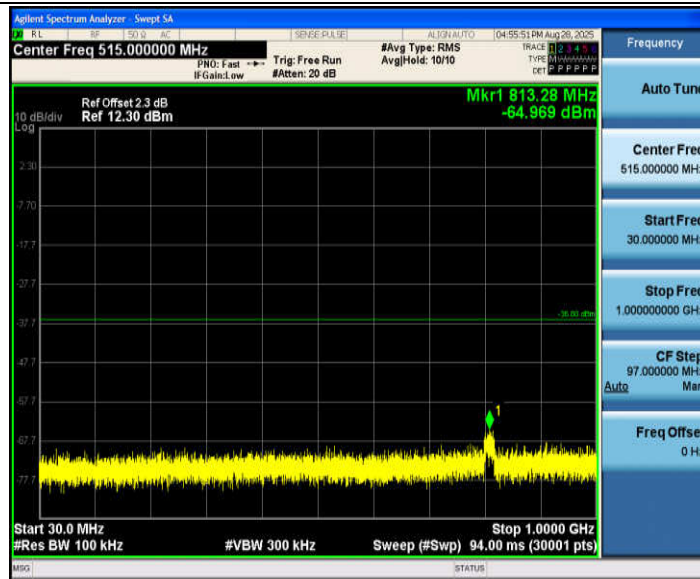
11N20SISO_Ant1_2412_1000~26500



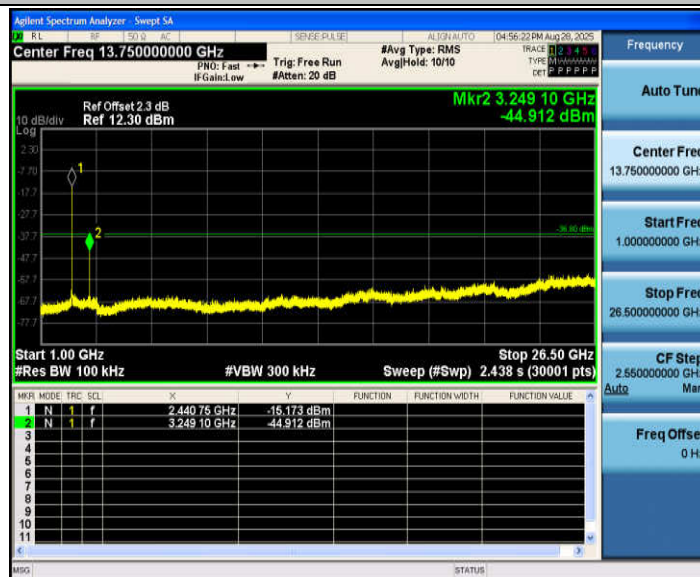
11N20SISO_Ant1_2437_0~Reference



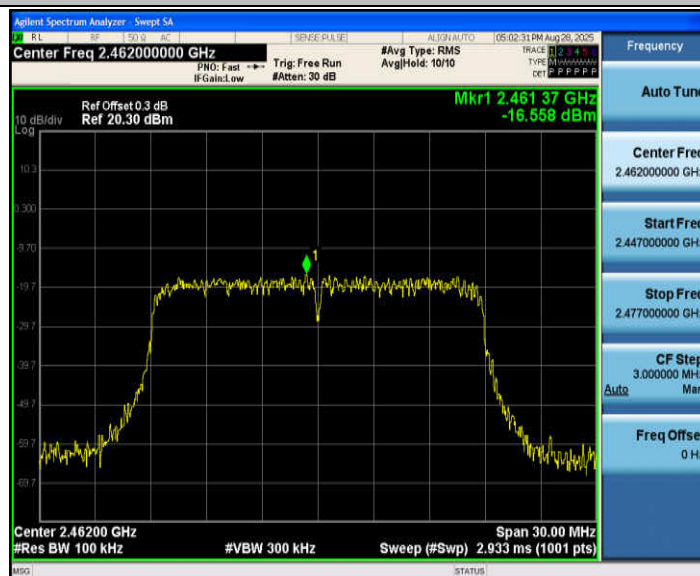
11N20SISO_Ant1_2437_30~1000



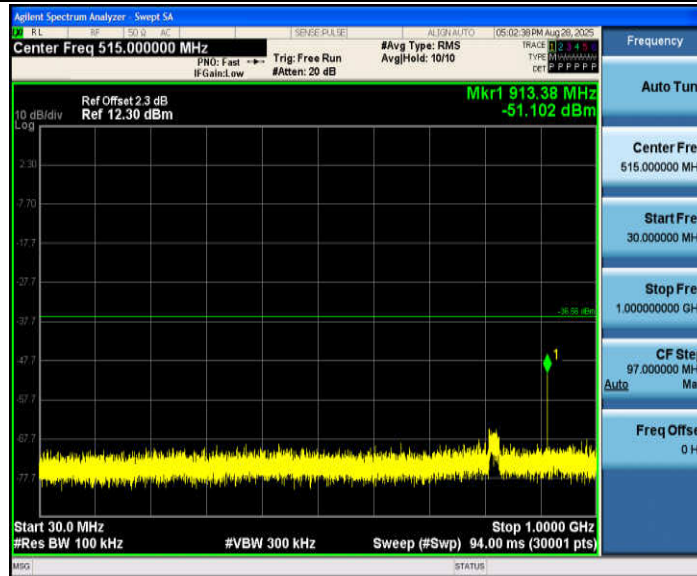
11N20SISO_Ant1_2437_1000~26500



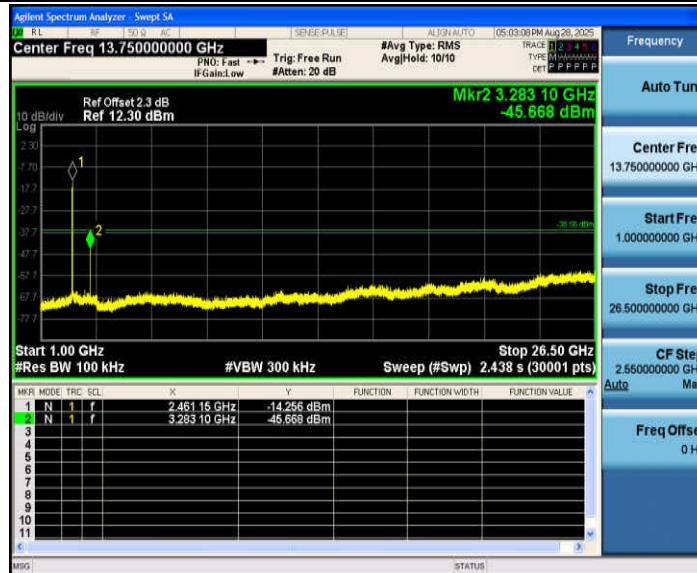
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



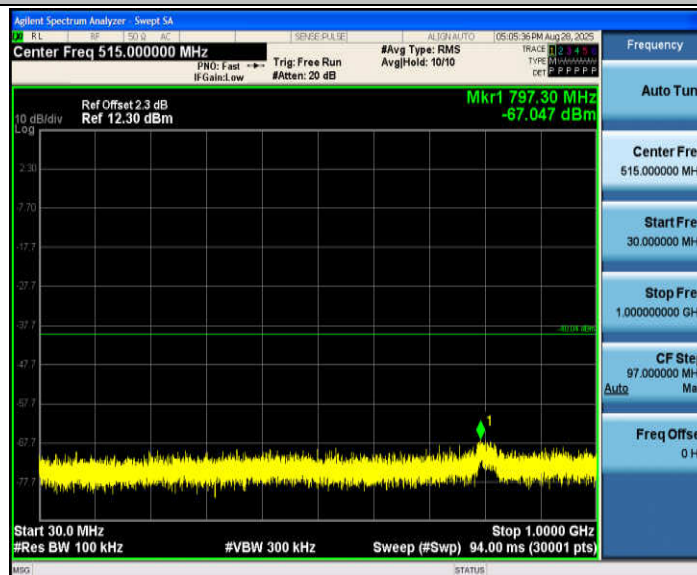
11N20SISO_Ant1_2462_1000~26500



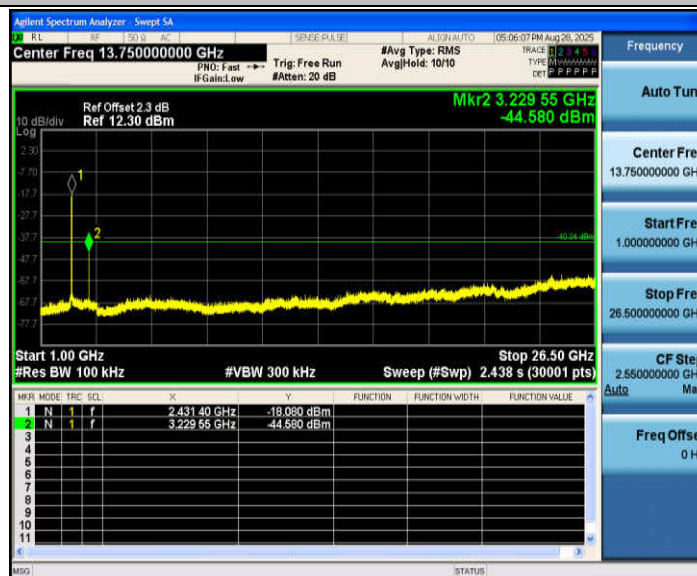
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



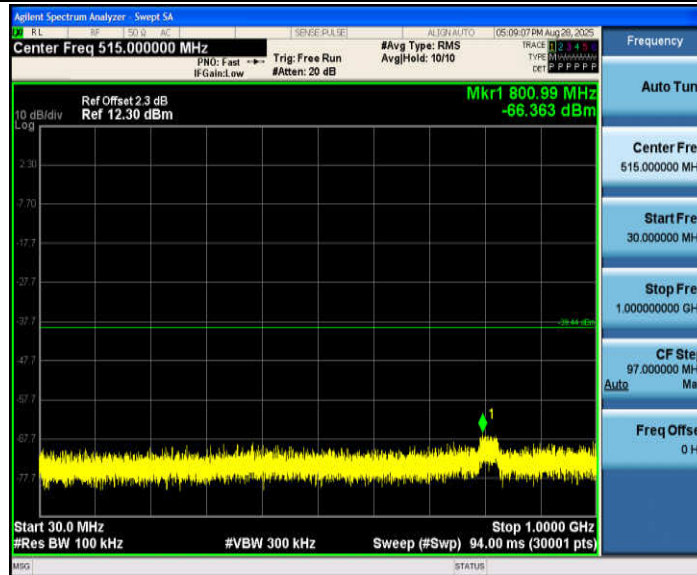
11N40SISO_Ant1_2422_1000~26500



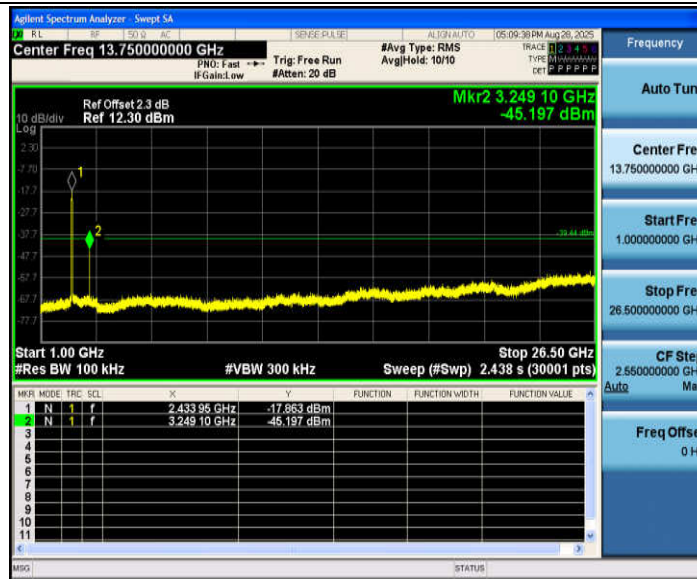
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



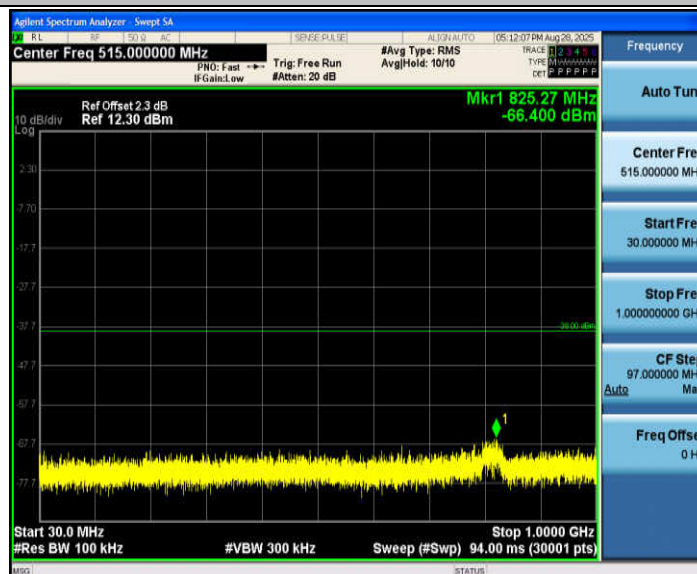
11N40SISO_Ant1_2437_1000~26500

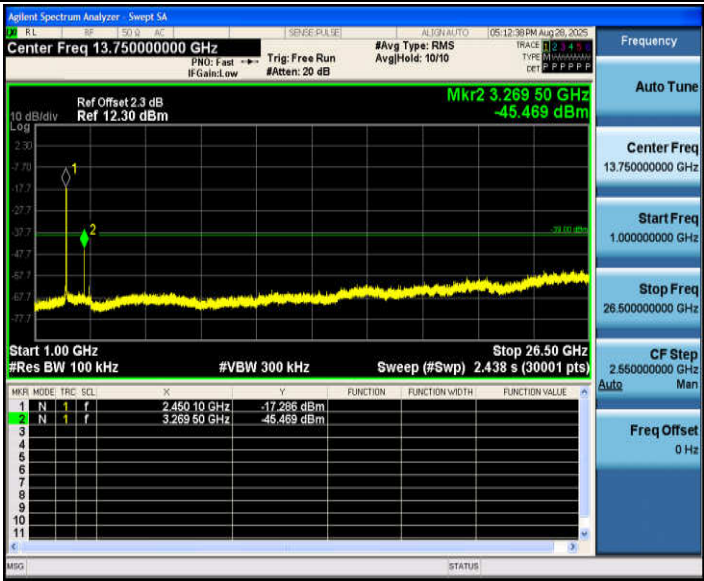


11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000





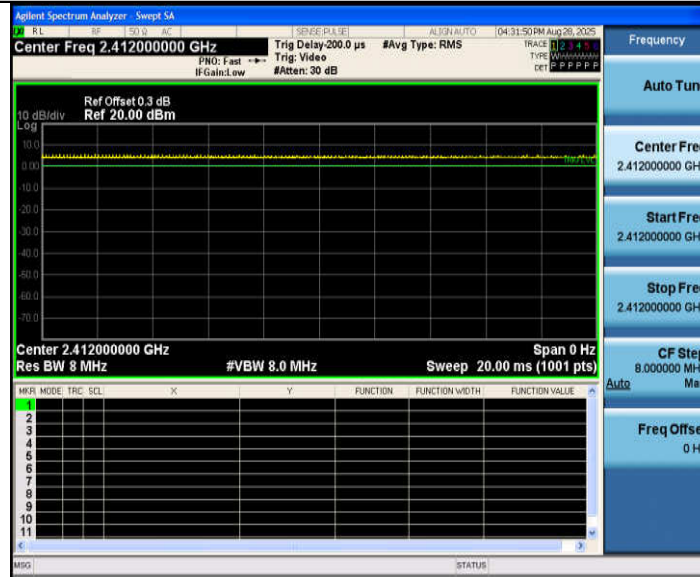
Appendix G: Duty Cycle

Test Result

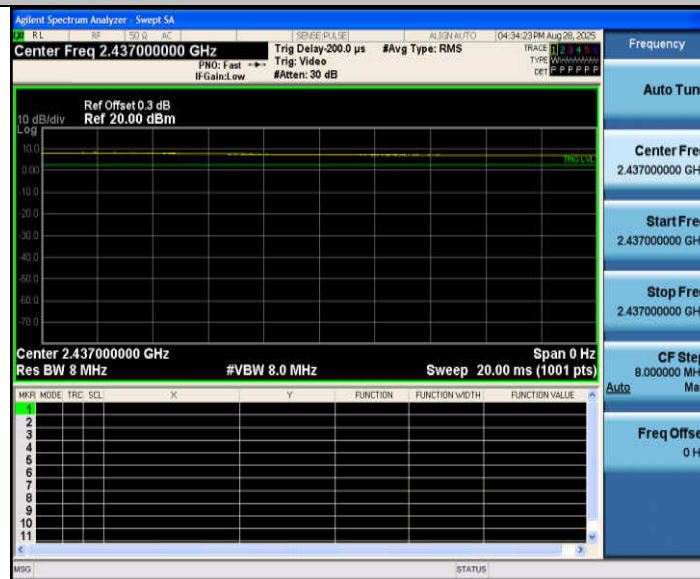
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11G	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11N20SISO	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11N40SISO	Ant1	2422	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2452	20.00	20.00	100.00

Test Graphs

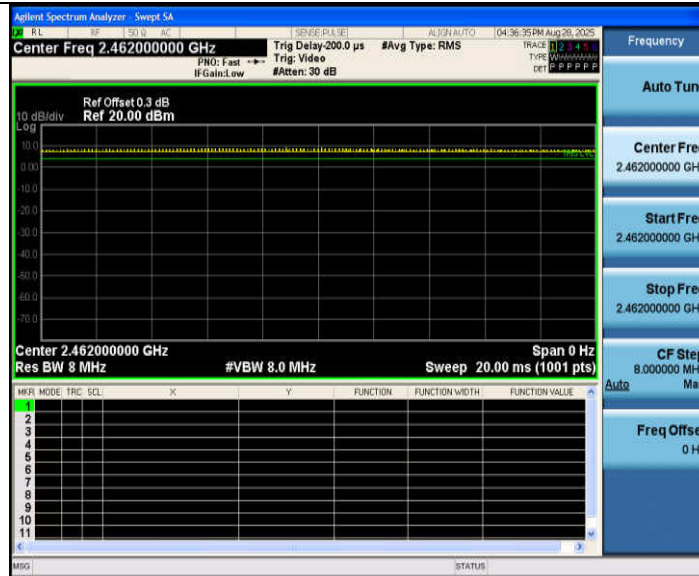
11B_Ant1_2412



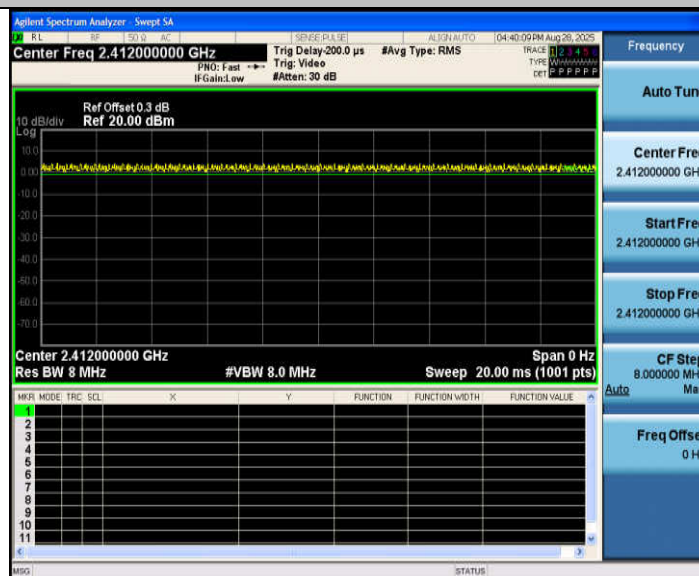
11B_Ant1_2437



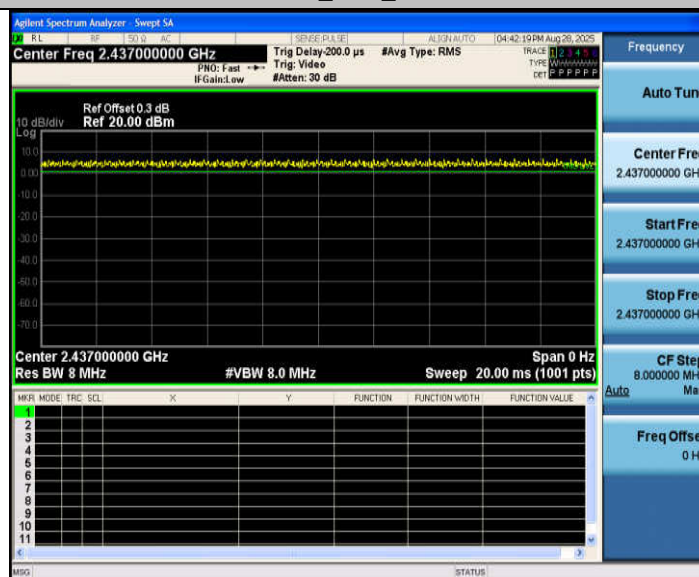
11B_Ant1_2462



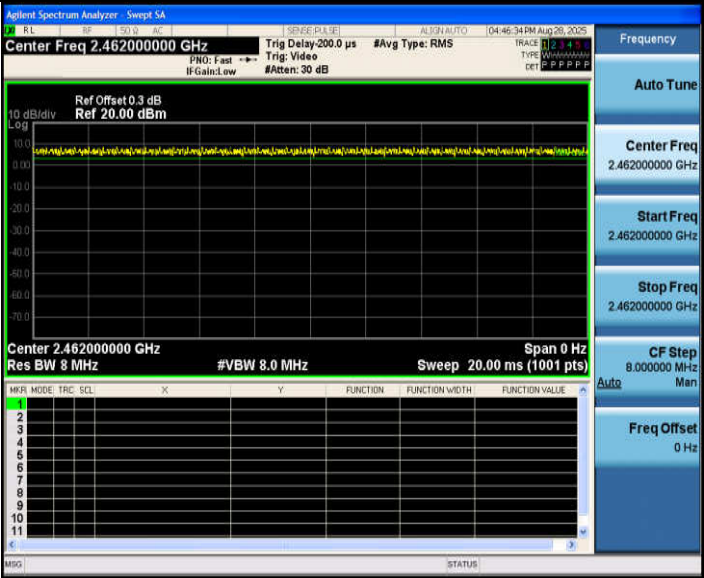
11G_Ant1_2412



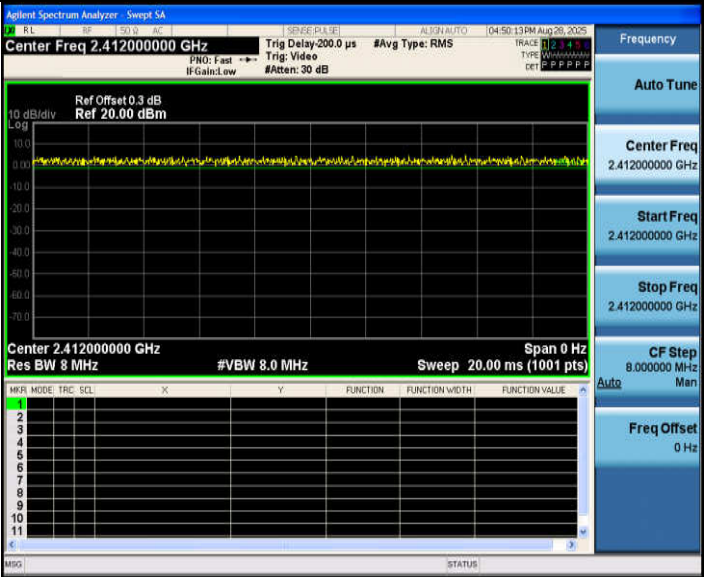
11G_Ant1_2437



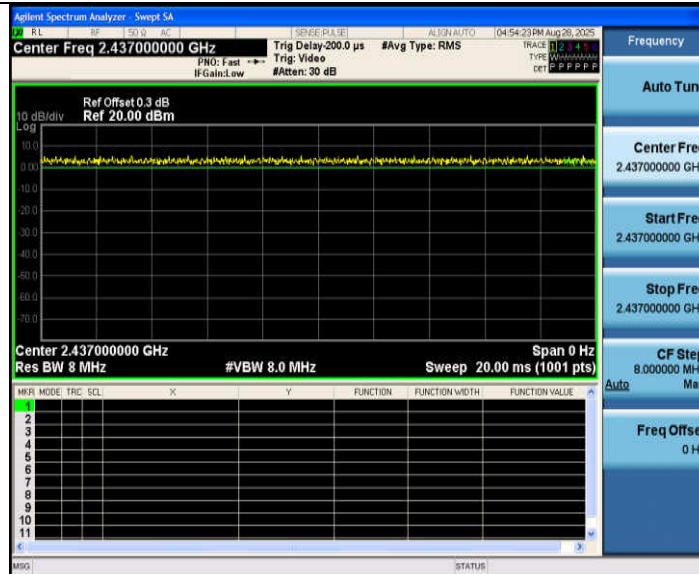
11G_Ant1_2462



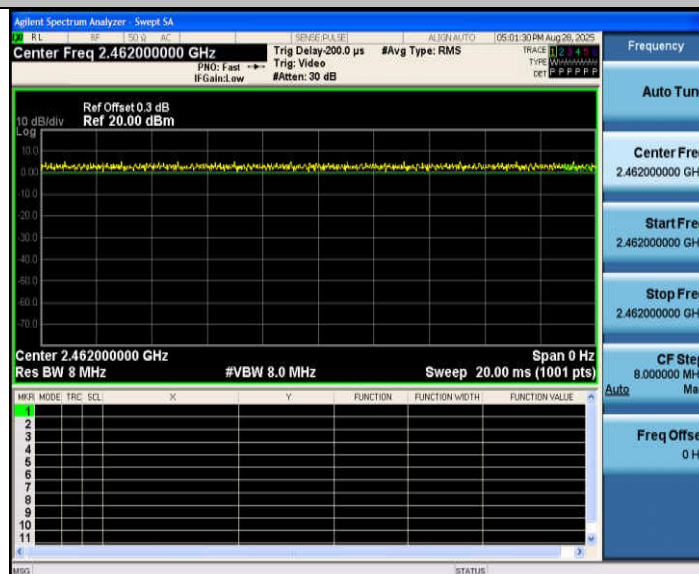
11N20SISO_Ant1_2412



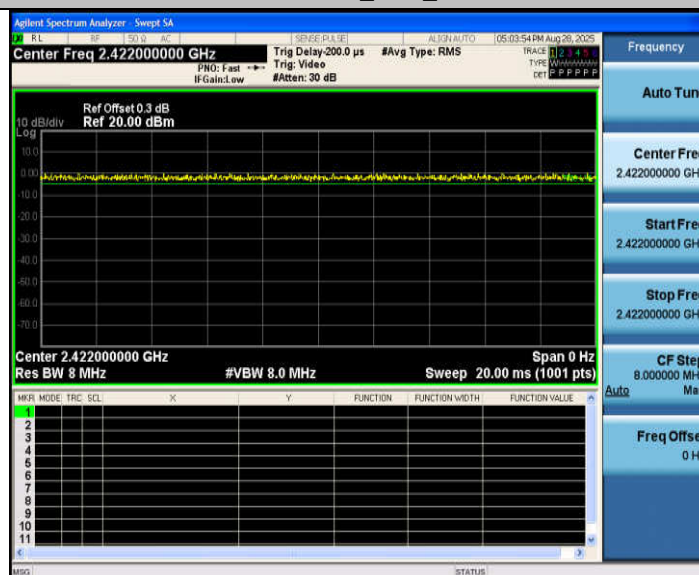
11N20SISO_Ant1_2437



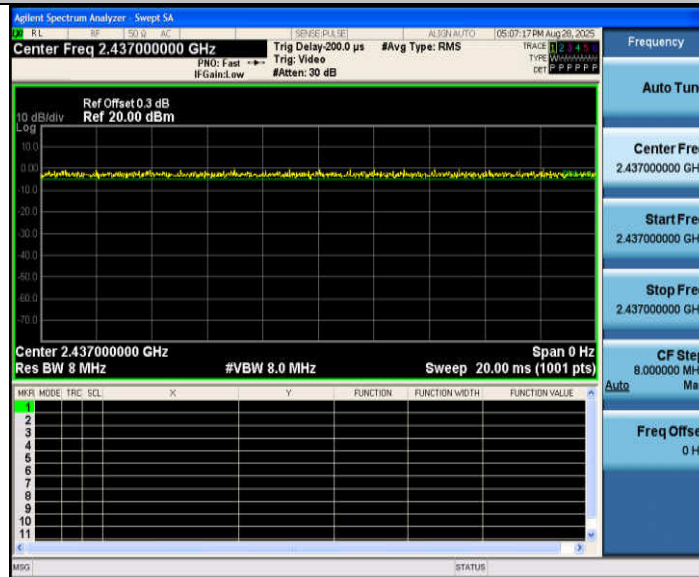
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

