

FCC Appendix RF Test Data for WLAN

FCC ID : 2BHX3-TAA06

Company: : Shenzhen Trolink Technology Co., Ltd

EUT : Carplay Box

Model Number : TAA06

Report No. : CTA25033100702

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	2406.960	2416.520	0.5	PASS
		2437	9.520	2432.000	2441.520	0.5	PASS
		2462	9.400	2457.160	2466.560	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	16.040	2454.120	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.160	2404.440	2420.600	0.5	PASS
		2437	16.280	2428.400	2444.680	0.5	PASS
		2462	16.520	2453.960	2470.480	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.480	2440.080	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.200	2434.400	2469.600	0.5	PASS
11AX20SISO	Ant1	2412	16.080	2404.440	2420.520	0.5	PASS
		2437	15.840	2429.440	2445.280	0.5	PASS
		2462	16.600	2454.080	2470.680	0.5	PASS
11AX40SISO	Ant1	2422	35.360	2404.480	2439.840	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.280	2434.320	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



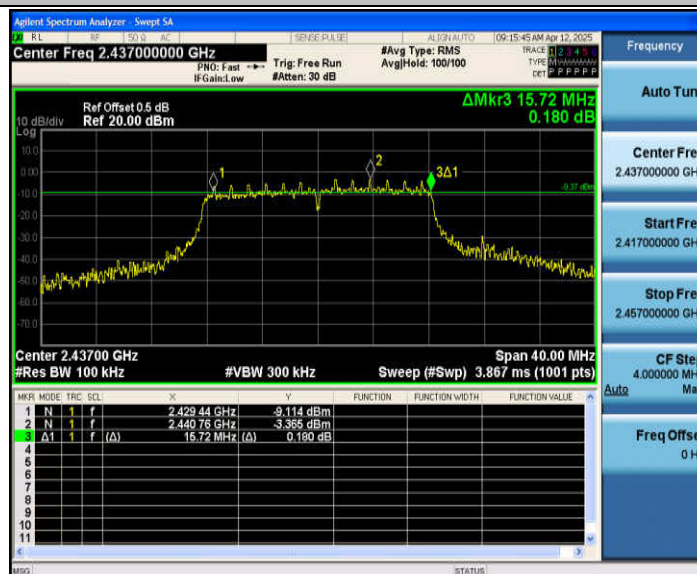
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



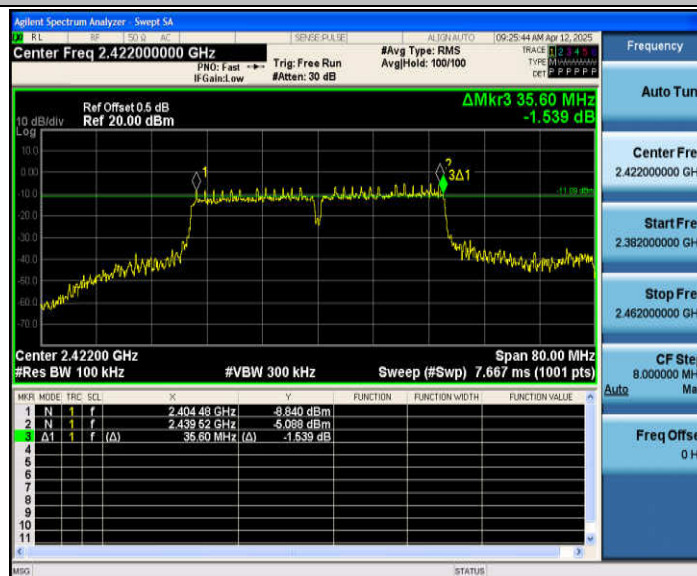
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



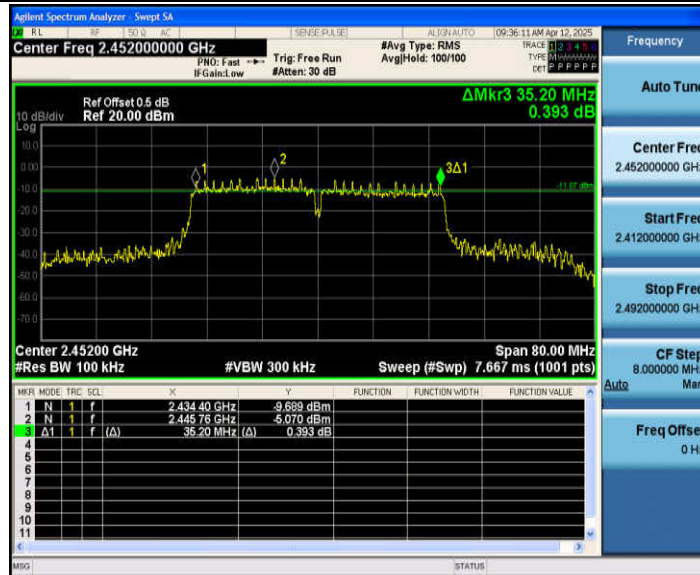
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



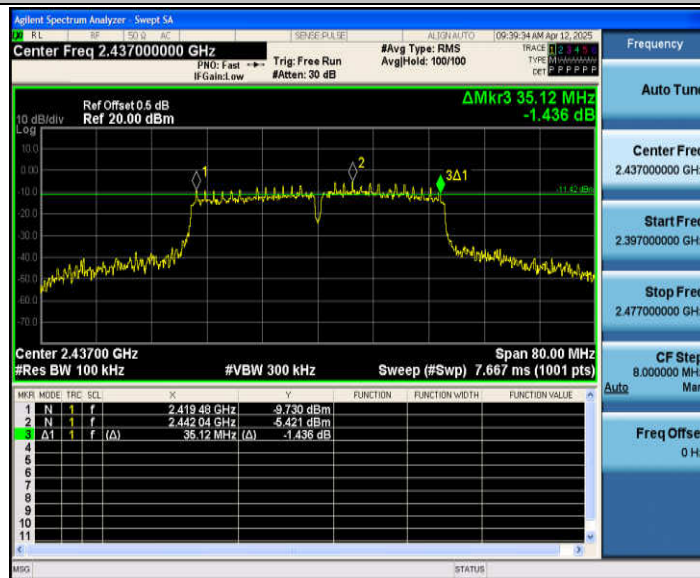
11AX20SISO_Ant1_2462



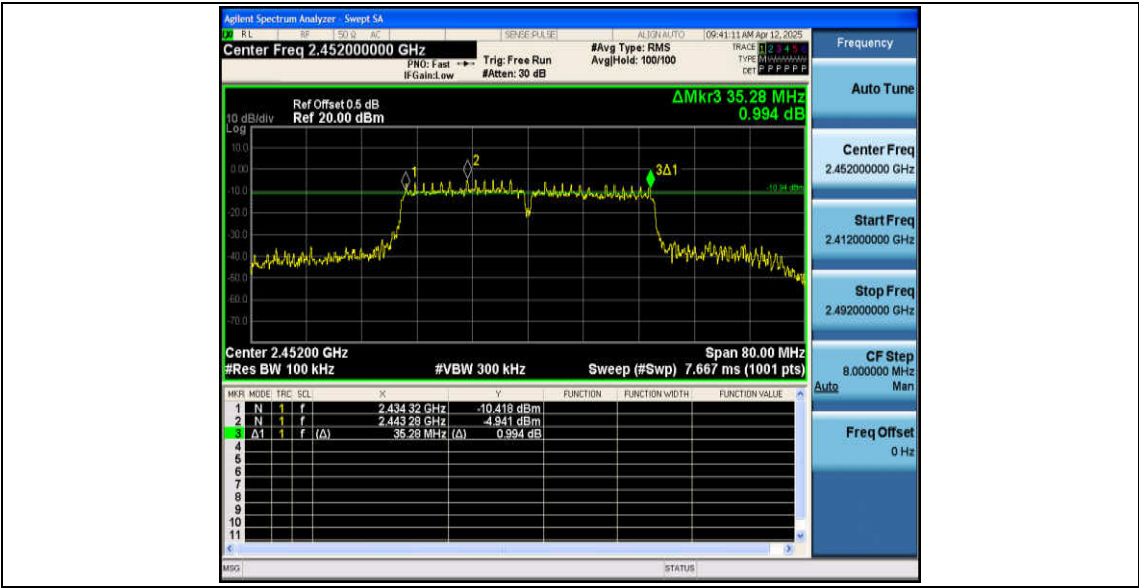
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_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	12.374	2405.7601	2418.1341	---	---
		2437	11.689	2430.9932	2442.6822	---	---
		2462	12.723	2455.4586	2468.1816	---	---
11G	Ant1	2412	16.853	2403.7475	2420.6005	---	---
		2437	16.603	2428.8360	2445.4390	---	---
		2462	16.868	2453.6903	2470.5583	---	---
11N20SISO	Ant1	2412	17.905	2403.2612	2421.1662	---	---
		2437	17.795	2428.0062	2445.8012	---	---
		2462	18.013	2453.1260	2471.1390	---	---
11N40SISO	Ant1	2422	36.336	2404.1308	2440.4668	---	---
		2437	35.995	2419.0870	2455.0820	---	---
		2452	36.341	2433.8954	2470.2364	---	---
11AX20SISO	Ant1	2412	17.927	2403.2536	2421.1806	---	---
		2437	17.622	2428.3112	2445.9332	---	---
		2462	18.022	2453.1820	2471.2040	---	---
11AX40SISO	Ant1	2422	36.382	2404.1113	2440.4933	---	---
		2437	36.062	2419.0694	2455.1314	---	---
		2452	36.324	2433.9366	2470.2606	---	---

Test Graphs

11B_Ant1_2412



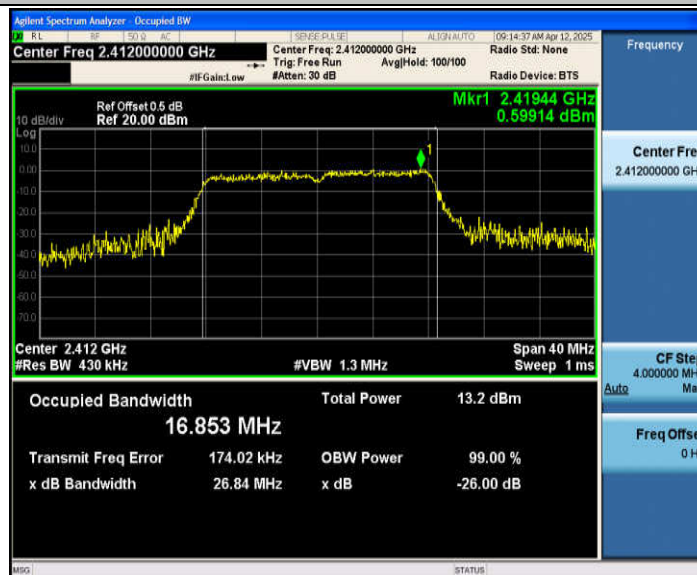
11B_Ant1_2437



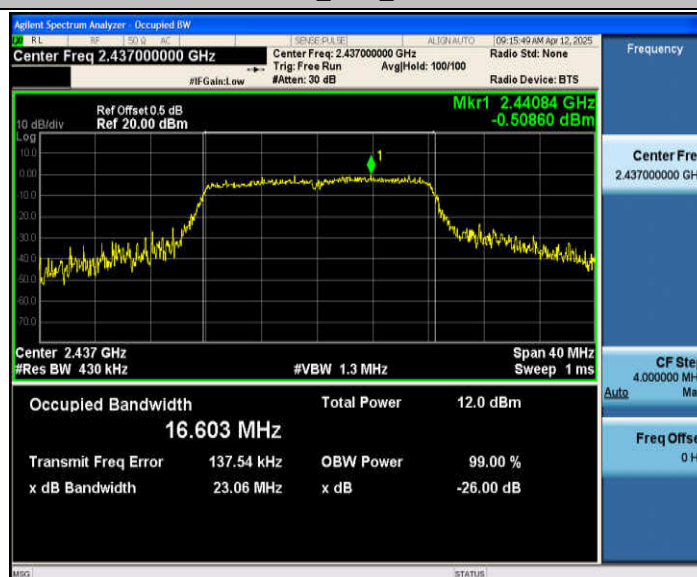
11B_Ant1_2462



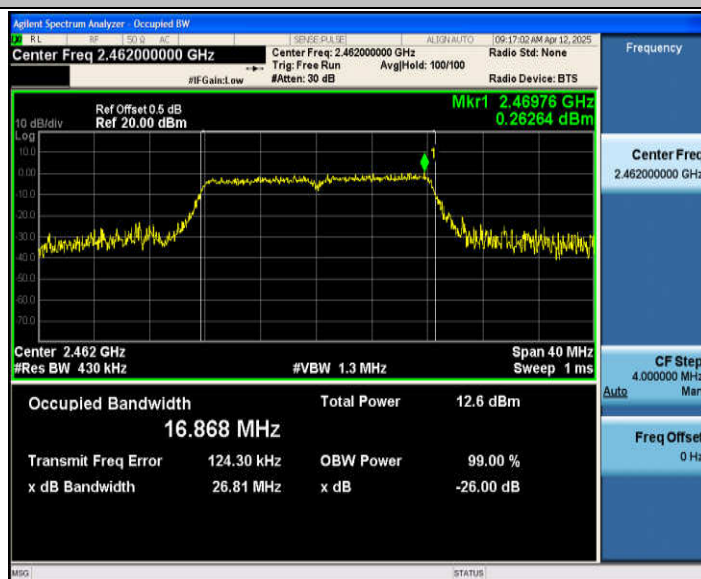
11G_Ant1_2412



11G_Ant1_2437



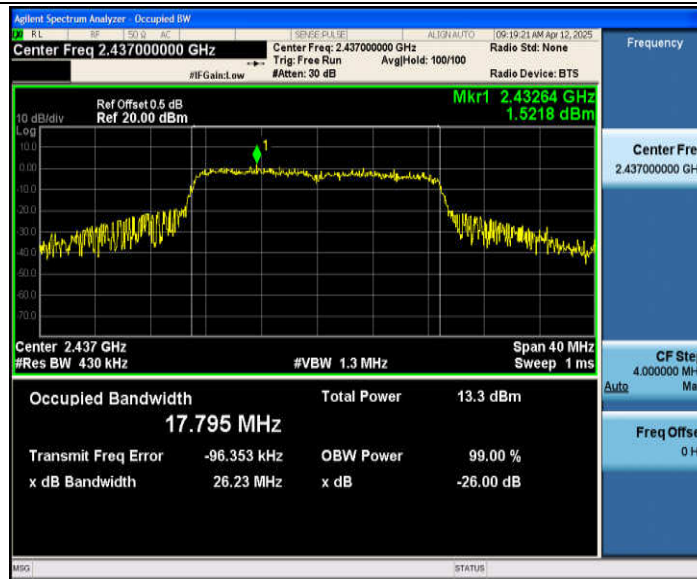
11G_Ant1_2462



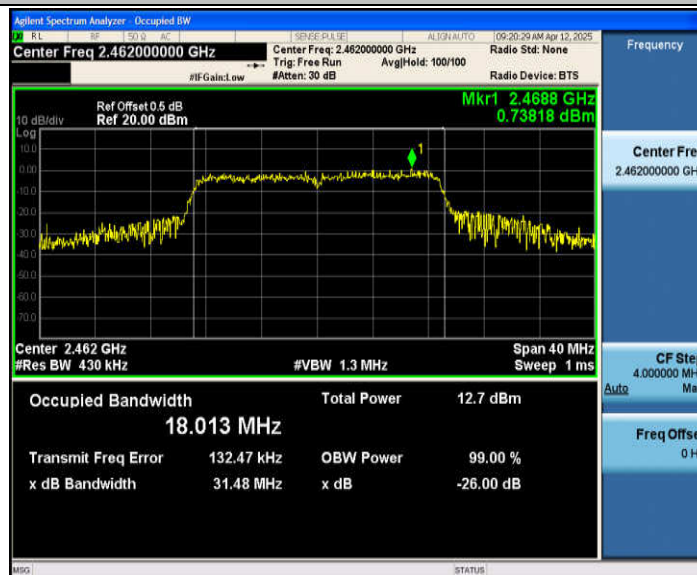
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



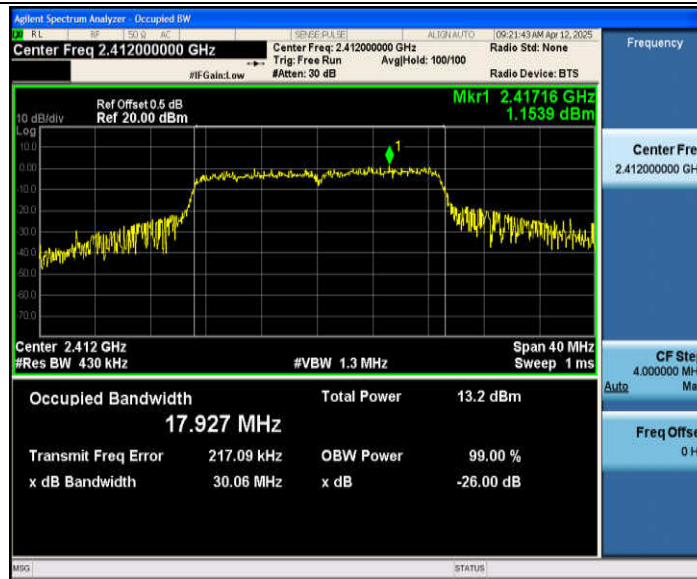
11N40SISO_Ant1_2437



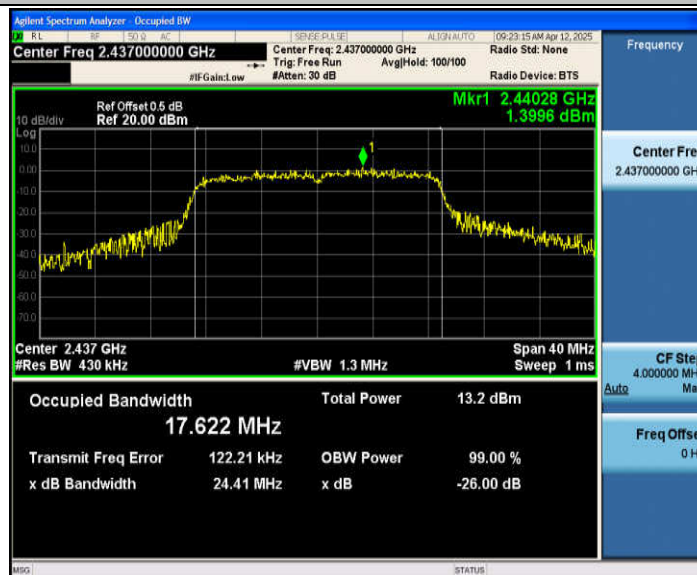
11N40SISO_Ant1_2452



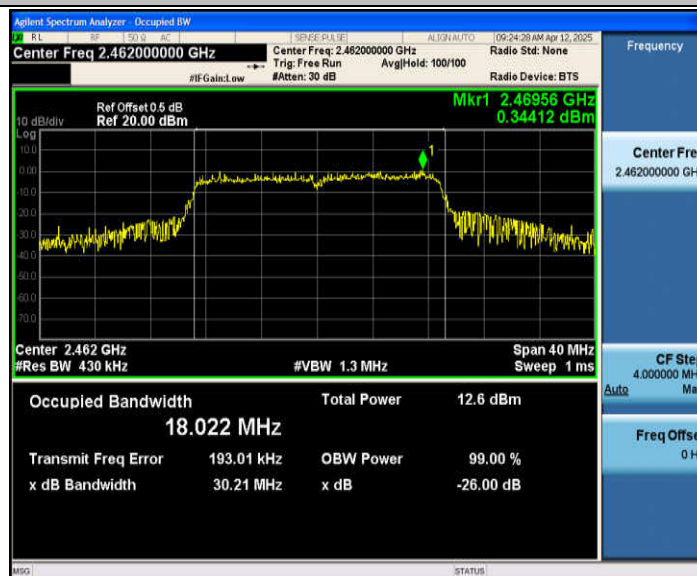
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



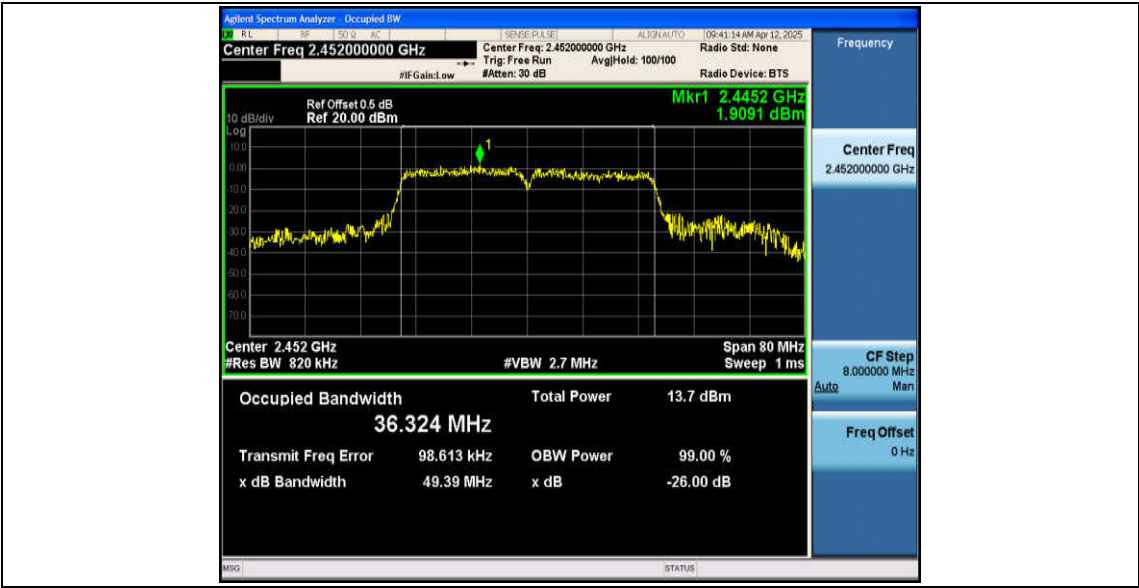
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_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	14.36	≤30.00	PASS
		2437	13.66	≤30.00	PASS
		2462	13.71	≤30.00	PASS
11G	Ant1	2412	14.03	≤30.00	PASS
		2437	12.58	≤30.00	PASS
		2462	13.23	≤30.00	PASS
11N20SISO	Ant1	2412	13.90	≤30.00	PASS
		2437	13.75	≤30.00	PASS
		2462	13.26	≤30.00	PASS
11N40SISO	Ant1	2422	13.32	≤30.00	PASS
		2437	12.69	≤30.00	PASS
		2452	13.87	≤30.00	PASS
11AX20SISO	Ant1	2412	13.86	≤30.00	PASS
		2437	13.61	≤30.00	PASS
		2462	13.27	≤30.00	PASS
11AX40SISO	Ant1	2422	13.14	≤30.00	PASS
		2437	12.65	≤30.00	PASS
		2452	13.86	≤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	-10.74	≤8.00	PASS
		2437	-11.69	≤8.00	PASS
		2462	-12.26	≤8.00	PASS
11G	Ant1	2412	-17.80	≤8.00	PASS
		2437	-18.92	≤8.00	PASS
		2462	-18.67	≤8.00	PASS
11N20SISO	Ant1	2412	-17.91	≤8.00	PASS
		2437	-18.89	≤8.00	PASS
		2462	-19.25	≤8.00	PASS
11N40SISO	Ant1	2422	-21.46	≤8.00	PASS
		2437	-22.14	≤8.00	PASS
		2452	-21.19	≤8.00	PASS
11AX20SISO	Ant1	2412	-17.61	≤8.00	PASS
		2437	-18.27	≤8.00	PASS
		2462	-19.33	≤8.00	PASS
11AX40SISO	Ant1	2422	-19.85	≤8.00	PASS
		2437	-20.82	≤8.00	PASS
		2452	-20.70	≤8.00	PASS

Test Graphs

11B_Ant1_2412



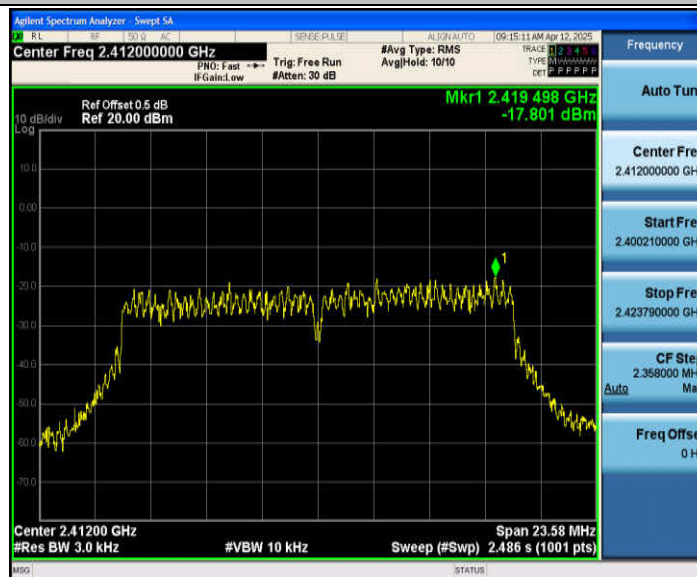
11B_Ant1_2437



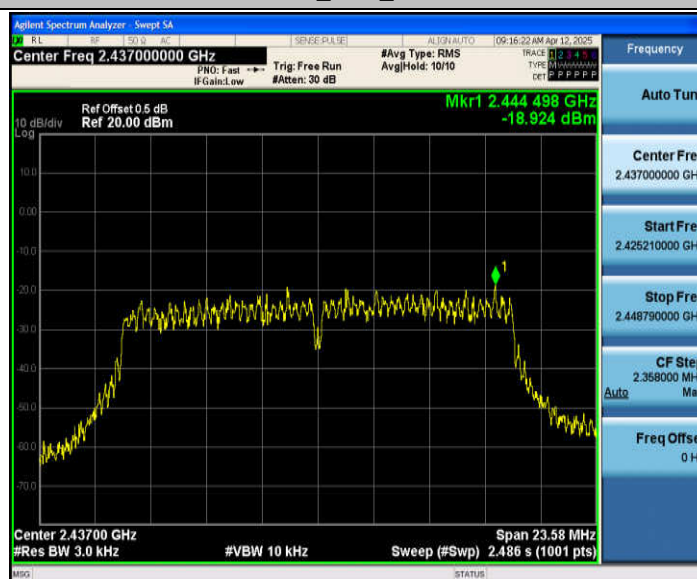
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



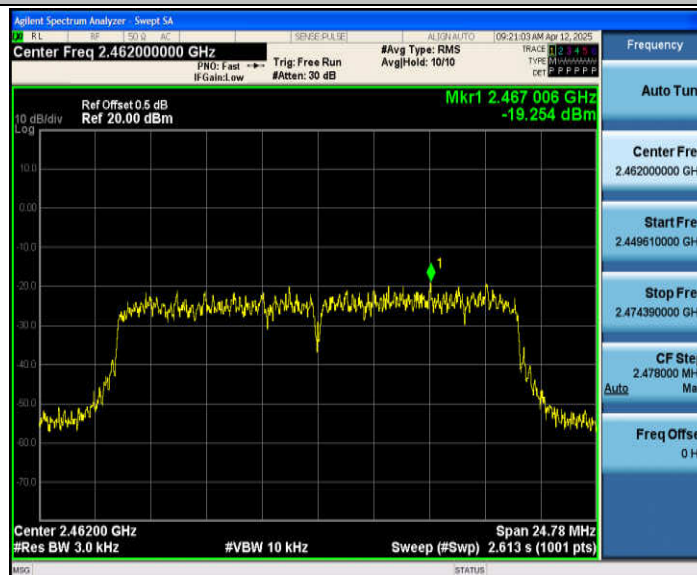
11N20SISO_Ant1_2412



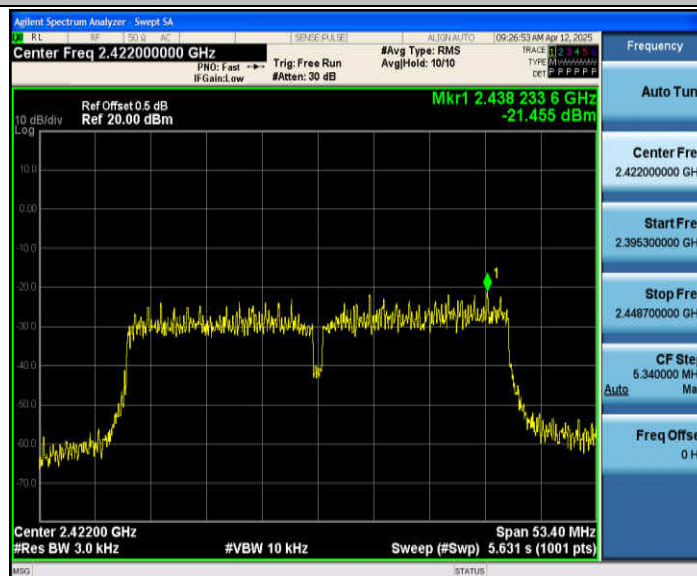
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



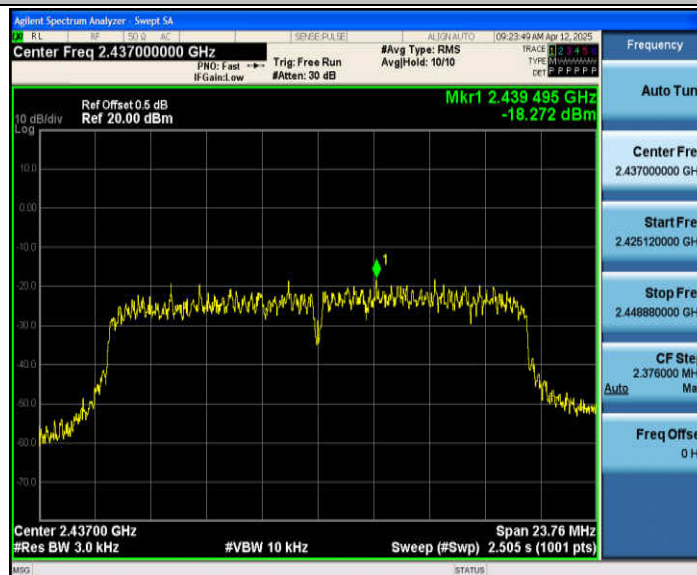
11N40SISO_Ant1_2452



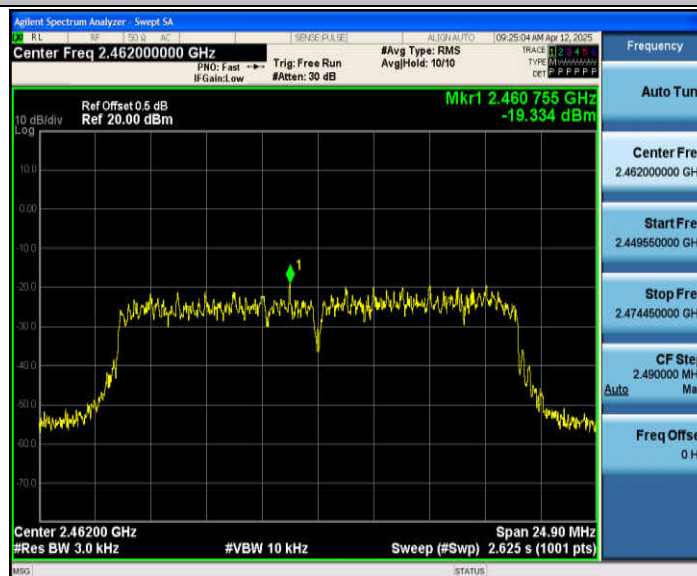
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



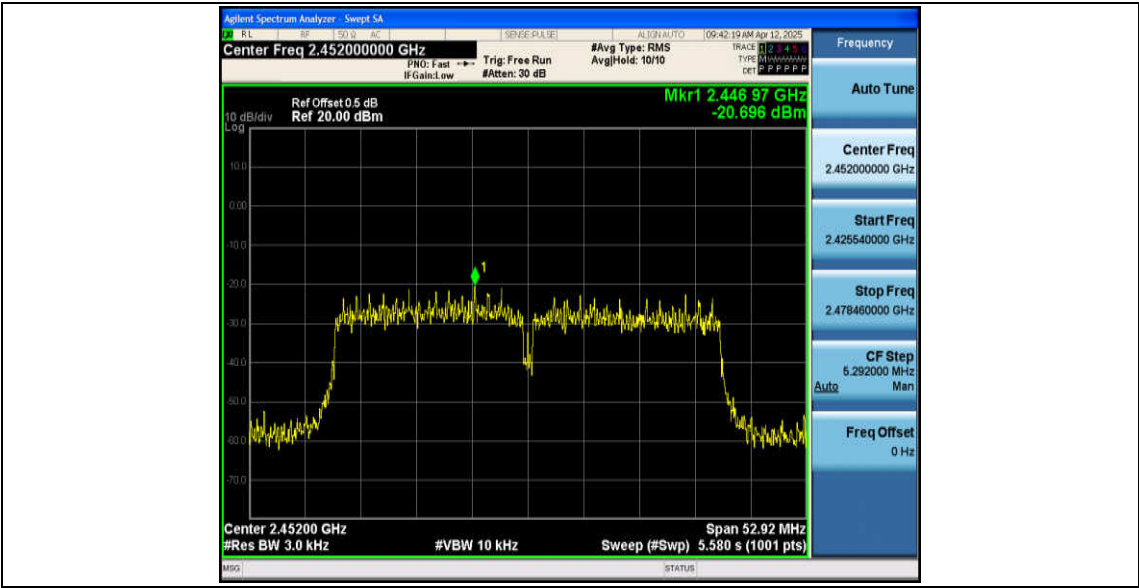
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



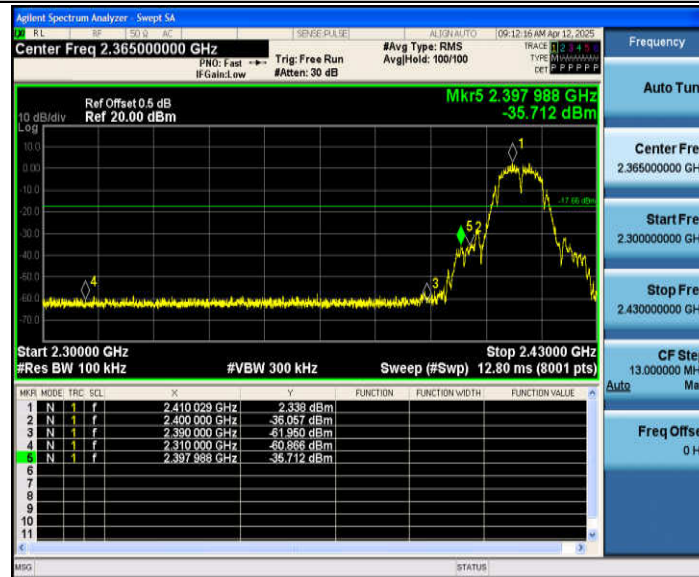
Appendix E: Band edge measurements

Test Result

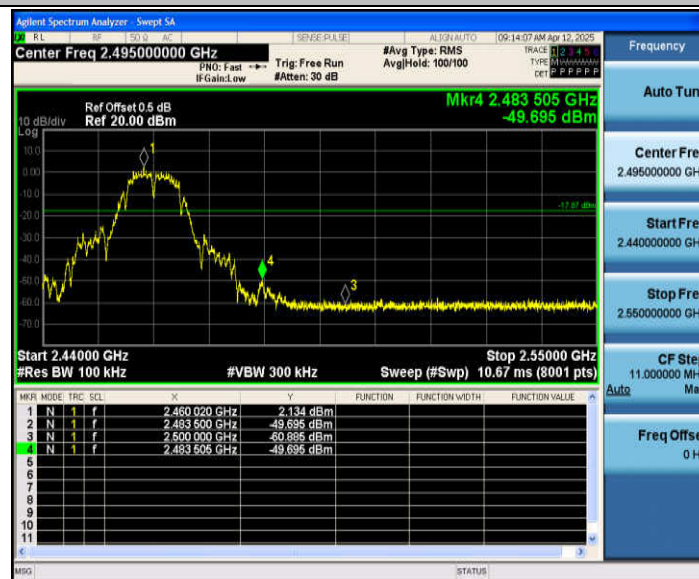
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.34	-35.71	≤-17.66	PASS
		High	2462	2.13	-49.7	≤-17.87	PASS
11G	Ant1	Low	2412	-1.55	-37.48	≤-21.55	PASS
		High	2462	-2.52	-39.38	≤-22.52	PASS
11N20SISO	Ant1	Low	2412	-2.19	-34.49	≤-22.19	PASS
		High	2462	-2.53	-36.88	≤-22.53	PASS
11N40SISO	Ant1	Low	2422	-5.12	-38.81	≤-25.12	PASS
		High	2452	-4.99	-35.34	≤-24.99	PASS
11AX20SISO	Ant1	Low	2412	-1.74	-35.23	≤-21.74	PASS
		High	2462	-2.50	-39.65	≤-22.5	PASS
11AX40SISO	Ant1	Low	2422	-5.03	-37.17	≤-25.03	PASS
		High	2452	-4.97	-35.9	≤-24.97	PASS

Test Graphs

11B_Ant1_Low_2412



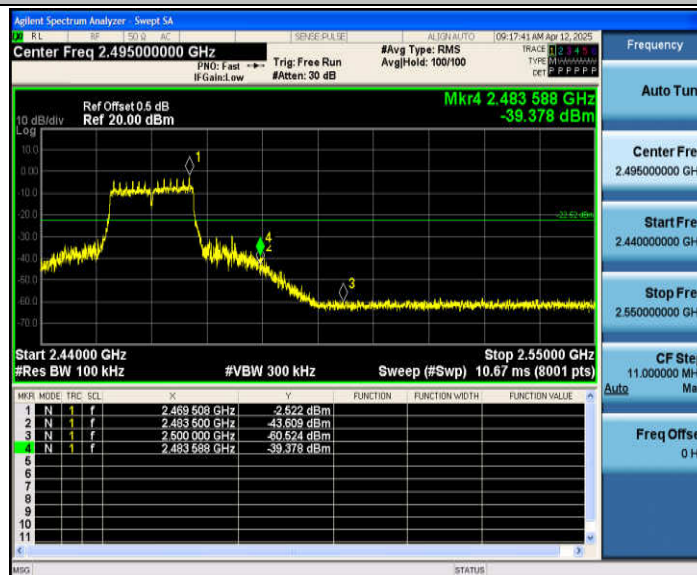
11B_Ant1_High_2462



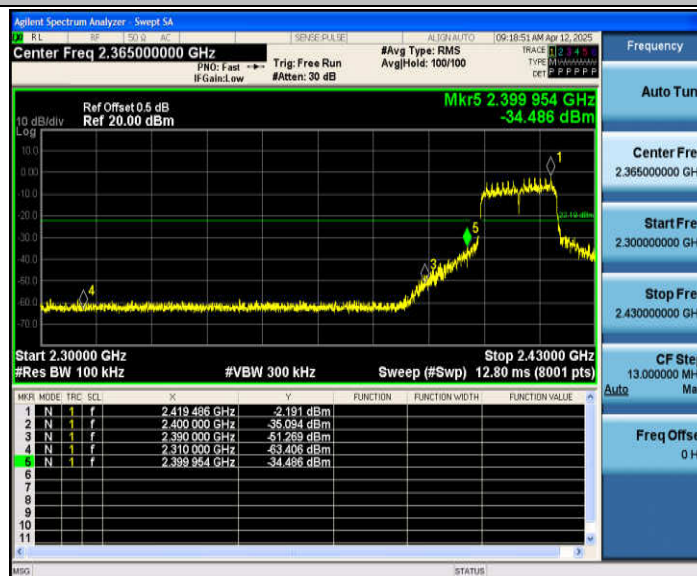
11G_Ant1_Low_2412



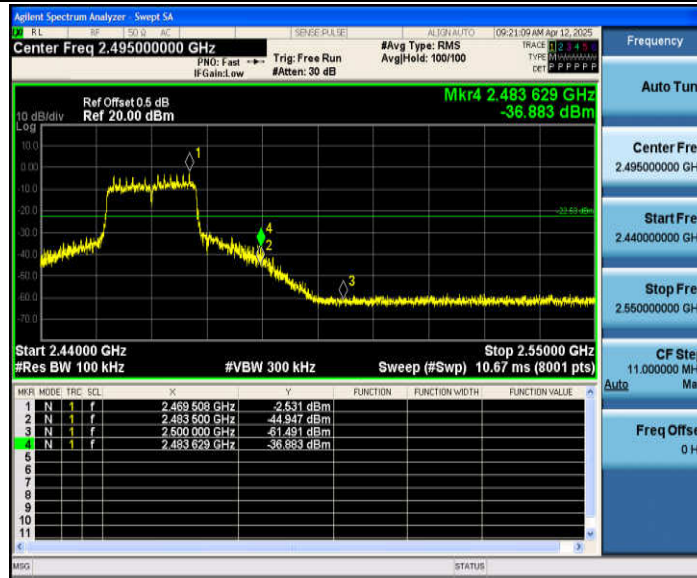
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



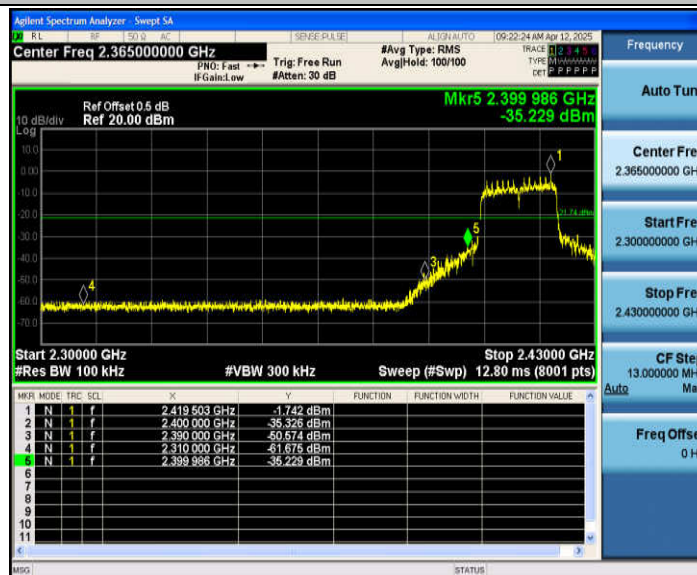
11N40SISO_Ant1_Low_2422



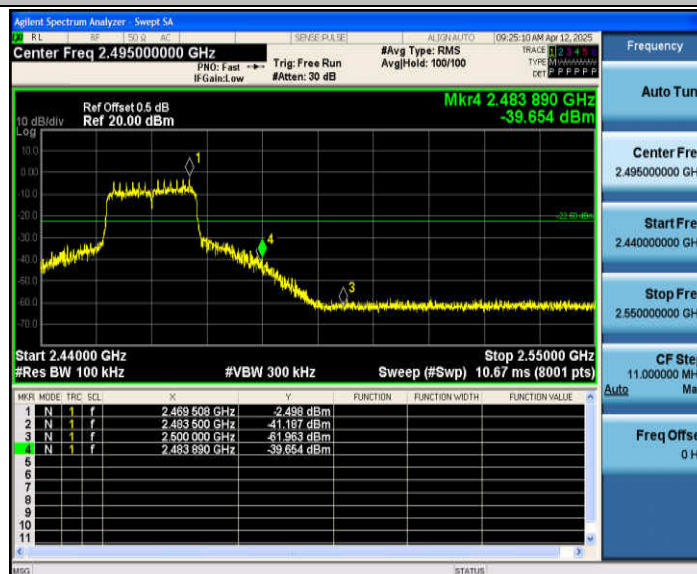
11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462



11AX40SISO_Ant1_Low_2422



11AX40SISO_Ant1_High_2452



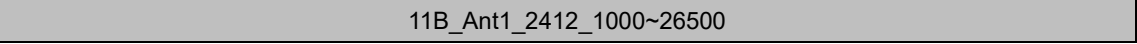
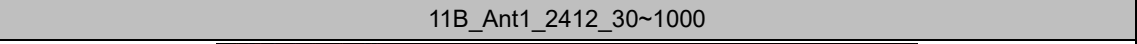
Appendix F: Conducted Spurious Emission

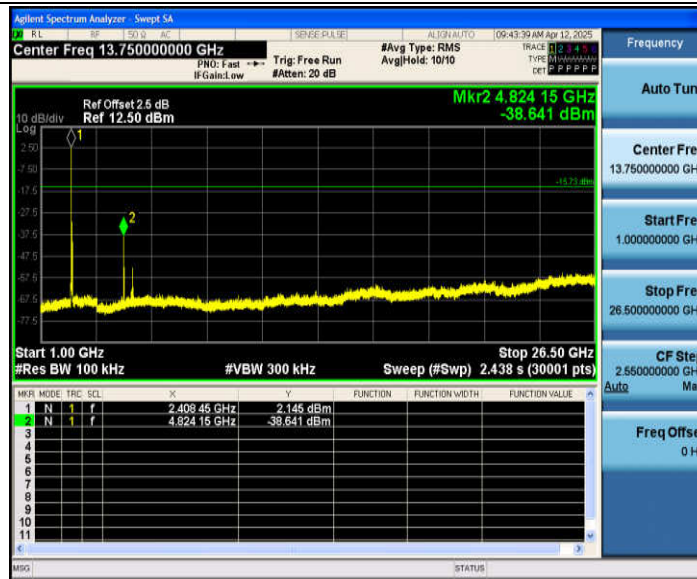
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.27	4.27	---	PASS
			30~1000	4.27	-67.8	≤-15.73	PASS
			1000~26500	4.27	-38.64	≤-15.73	PASS
		2437	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-67.9	≤-18.21	PASS
			1000~26500	1.79	-37.5	≤-18.21	PASS
		2462	Reference	2.97	2.97	---	PASS
			30~1000	2.97	-67.81	≤-17.03	PASS
			1000~26500	2.97	-30.79	≤-17.03	PASS
11G	Ant1	2412	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-68.06	≤-20.58	PASS
			1000~26500	-0.58	-50.79	≤-20.58	PASS
		2437	Reference	-0.87	-0.87	---	PASS
			30~1000	-0.87	-67.93	≤-20.87	PASS
			1000~26500	-0.87	-47.48	≤-20.87	PASS
		2462	Reference	-0.99	-0.99	---	PASS
			30~1000	-0.99	-67.14	≤-20.99	PASS
			1000~26500	-0.99	-43.82	≤-20.99	PASS
11N20SISO	Ant1	2412	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-67.82	≤-20.53	PASS
			1000~26500	-0.53	-49.62	≤-20.53	PASS
		2437	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-67.37	≤-20.18	PASS
			1000~26500	-0.18	-48.01	≤-20.18	PASS
		2462	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-66.04	≤-22.15	PASS
			1000~26500	-2.15	-43.78	≤-22.15	PASS
11N40SISO	Ant1	2422	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-67.07	≤-23.95	PASS
			1000~26500	-3.95	-49.97	≤-23.95	PASS
		2437	Reference	-4.27	-4.27	---	PASS
			30~1000	-4.27	-67.27	≤-24.27	PASS
			1000~26500	-4.27	-46.35	≤-24.27	PASS
		2452	Reference	-3.49	-3.49	---	PASS
			30~1000	-3.49	-67.12	≤-23.49	PASS
			1000~26500	-3.49	-49.36	≤-23.49	PASS
11AX20SISO	Ant1	2412	Reference	-1.21	-1.21	---	PASS

			30~1000	-1.21	-67.61	≤ -21.21	PASS
			1000~26500	-1.21	-51.59	≤ -21.21	PASS
		2437	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-68.52	≤ -20.24	PASS
			1000~26500	-0.24	-48.45	≤ -20.24	PASS
		2462	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-67.65	≤ -20.77	PASS
			1000~26500	-0.77	-42.2	≤ -20.77	PASS
11AX40SISO	Ant1	2422	Reference	-3.24	-3.24	---	PASS
			30~1000	-3.24	-67.19	≤ -23.24	PASS
			1000~26500	-3.24	-49.96	≤ -23.24	PASS
		2437	Reference	-4.18	-4.18	---	PASS
			30~1000	-4.18	-67.19	≤ -24.18	PASS
			1000~26500	-4.18	-51.71	≤ -24.18	PASS
		2452	Reference	-3.61	-3.61	---	PASS
			30~1000	-3.61	-67.14	≤ -23.61	PASS
			1000~26500	-3.61	-48.03	≤ -23.61	PASS

11B_Ant1_2412_0~Reference

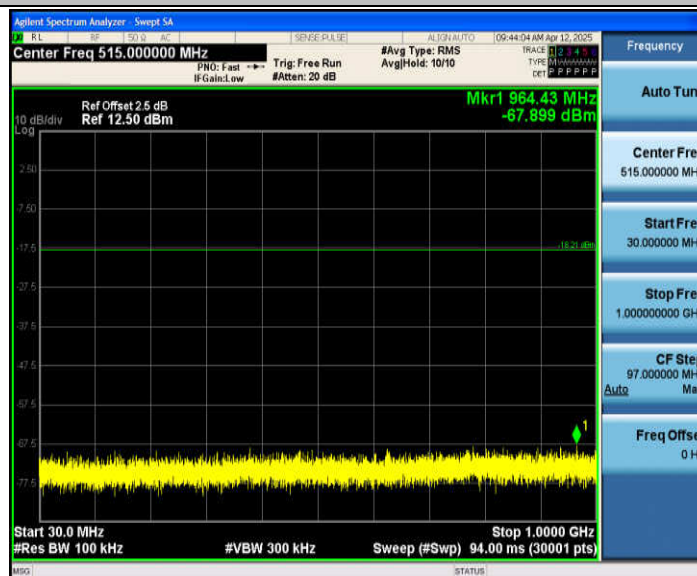




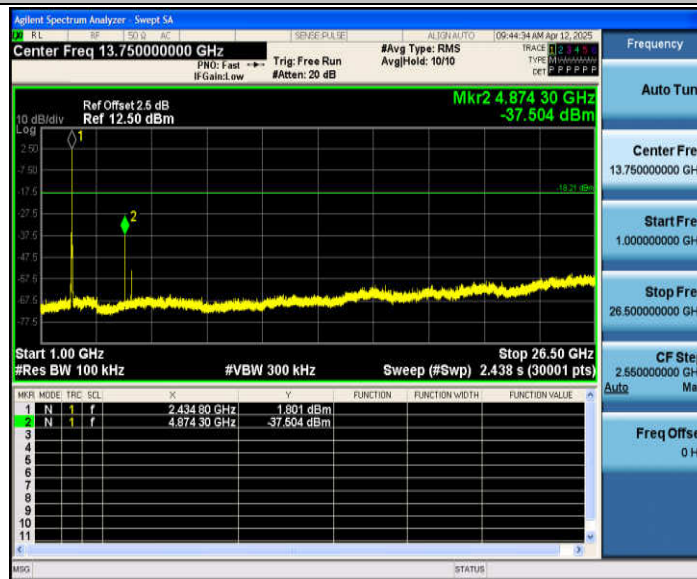
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



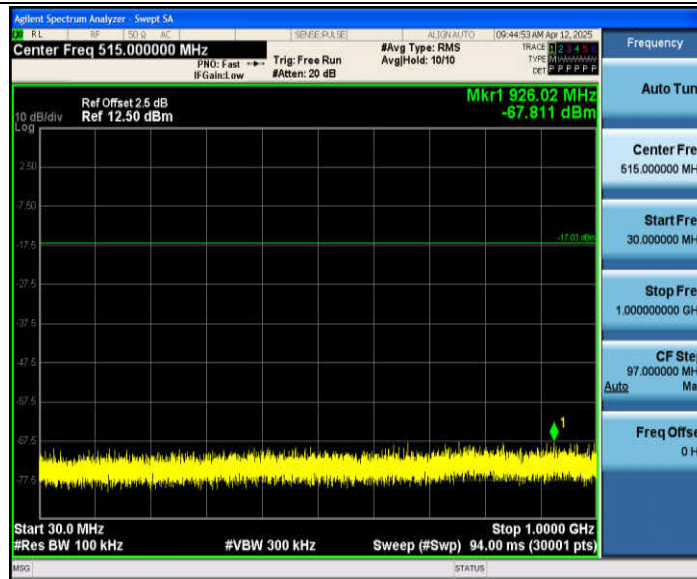
11B_Ant1_2437_1000~26500



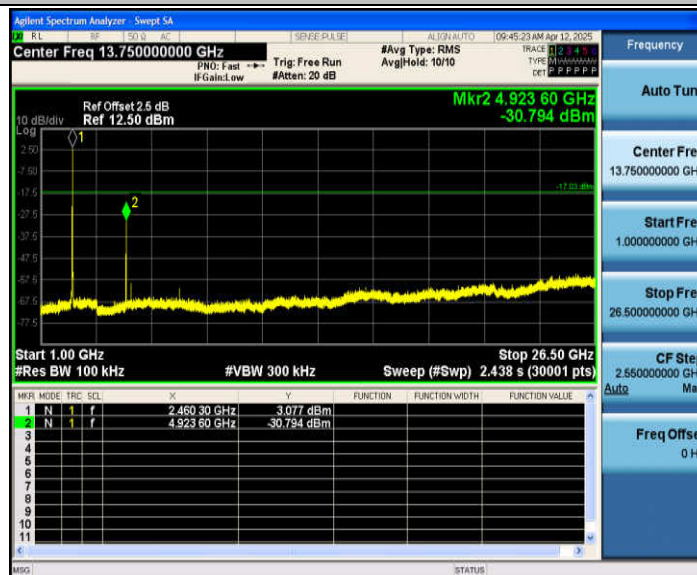
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



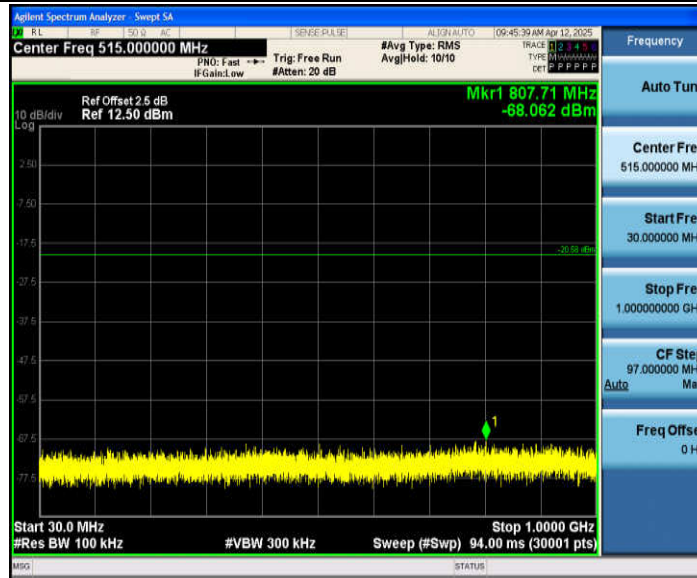
11B_Ant1_2462_1000~26500



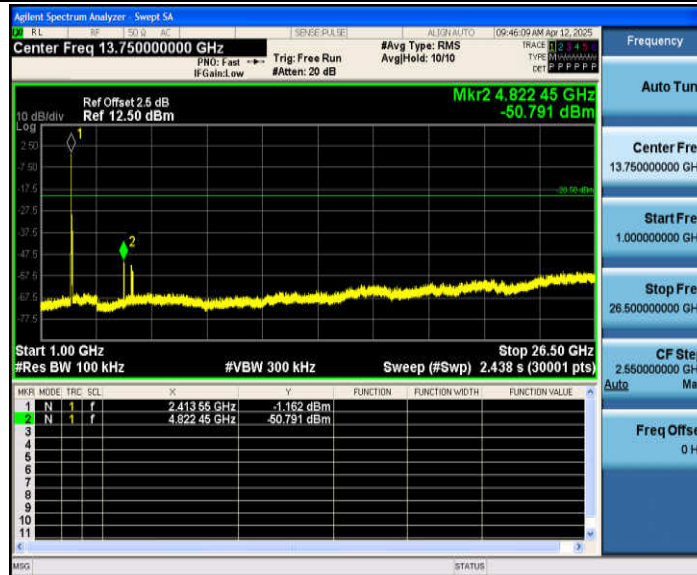
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference