

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AJU8-RG477V

Company : Shenzhen Yangliming Electronic Technology Co., Ltd.

EUT : Handheld Game Console

Model Number : RG 477V

Report No. : CTA26060901102

Reviewed By : Eric Wang

FCC Appendix RF Test Data for 2.4GWIFI Antenna 0

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	10.160	2406.960	2417.120	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant0	2412	15.720	2404.080	2419.800	0.5	PASS
		2437	15.720	2429.080	2444.800	0.5	PASS
		2462	15.920	2454.120	2470.040	0.5	PASS
11N20SISO	Ant0	2412	17.120	2403.480	2420.600	0.5	PASS
		2437	16.400	2428.680	2445.080	0.5	PASS
		2462	16.440	2454.080	2470.520	0.5	PASS
11N40SISO	Ant0	2422	35.520	2404.640	2440.160	0.5	PASS
		2437	35.440	2419.640	2455.080	0.5	PASS
		2452	35.520	2434.480	2470.000	0.5	PASS

Test Graphs

11B_Ant0_2412



11B_Ant0_2437



11B_Ant0_2462



11G_Ant0_2412



11G_Ant0_2437



11G_Ant0_2462



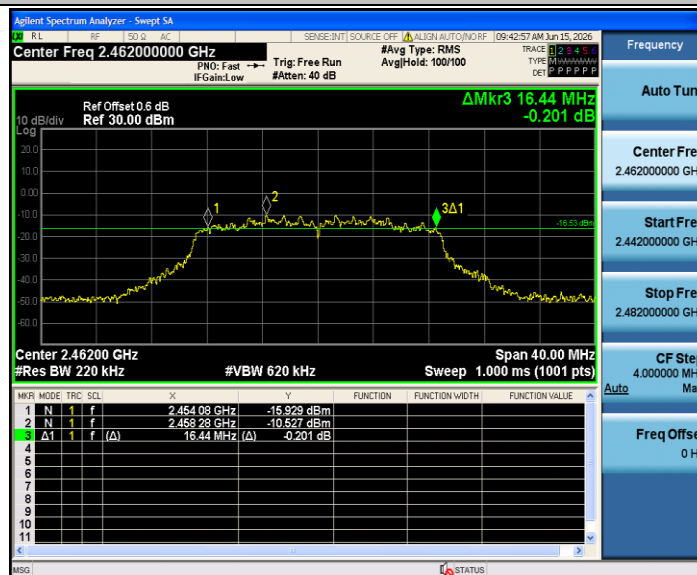
11N20SISO_Ant0_2412



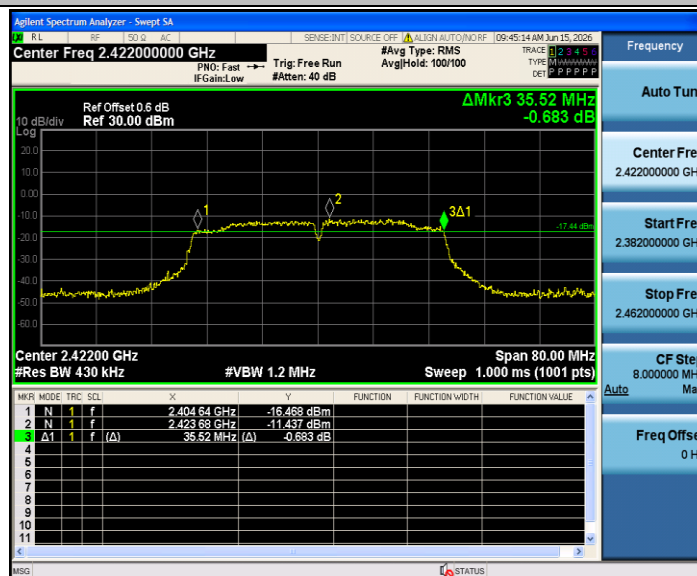
11N20SISO_Ant0_2437



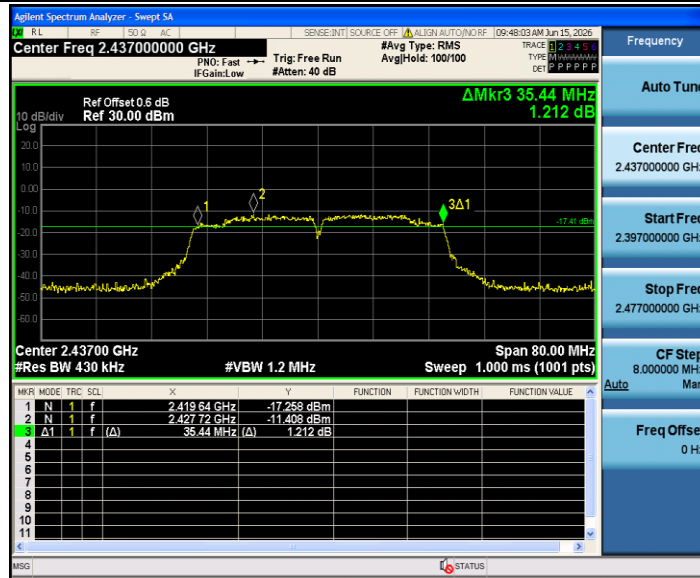
11N20SISO_Ant0_2462



11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452



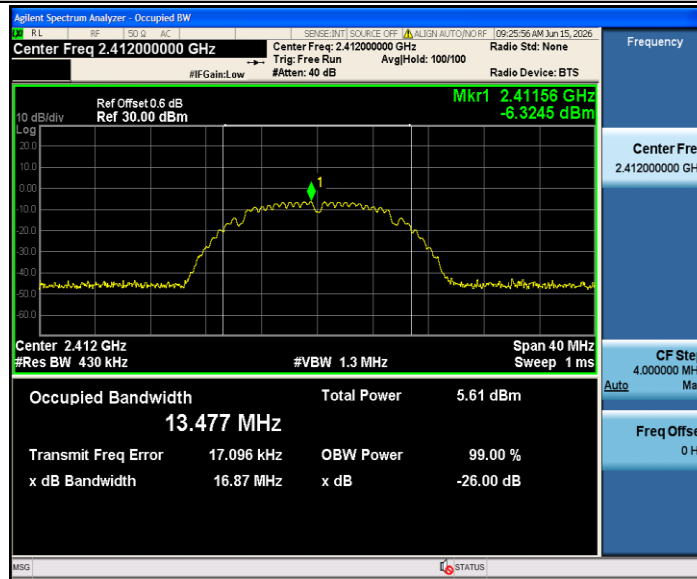
Appendix B: Occupied Channel Bandwidth

Test Result

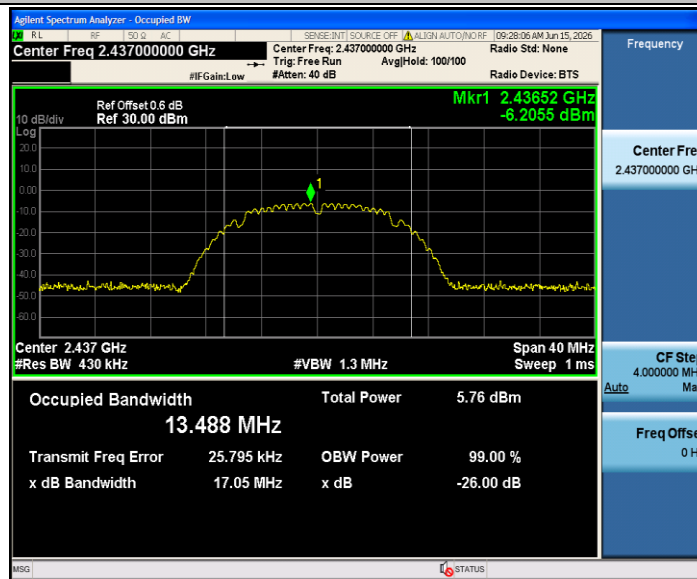
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	13.477	2405.2786	2418.7556	---	---
		2437	13.488	2430.2818	2443.7698	---	---
		2462	13.473	2455.2999	2468.7729	---	---
11G	Ant0	2412	16.821	2403.6292	2420.4502	---	---
		2437	16.869	2428.6197	2445.4887	---	---
		2462	17.016	2453.5386	2470.5546	---	---
11N20SISO	Ant0	2412	17.925	2403.0397	2420.9647	---	---
		2437	17.981	2428.0263	2446.0073	---	---
		2462	17.966	2453.0416	2471.0076	---	---
11N40SISO	Ant0	2422	36.211	2404.0687	2440.2797	---	---
		2437	36.181	2419.0941	2455.2751	---	---
		2452	36.071	2434.0961	2470.1671	---	---

Test Graphs

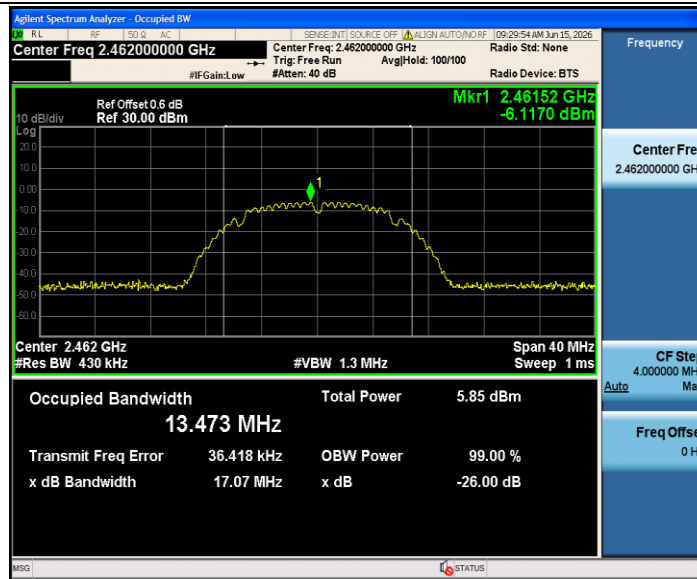
11B_Ant0_2412



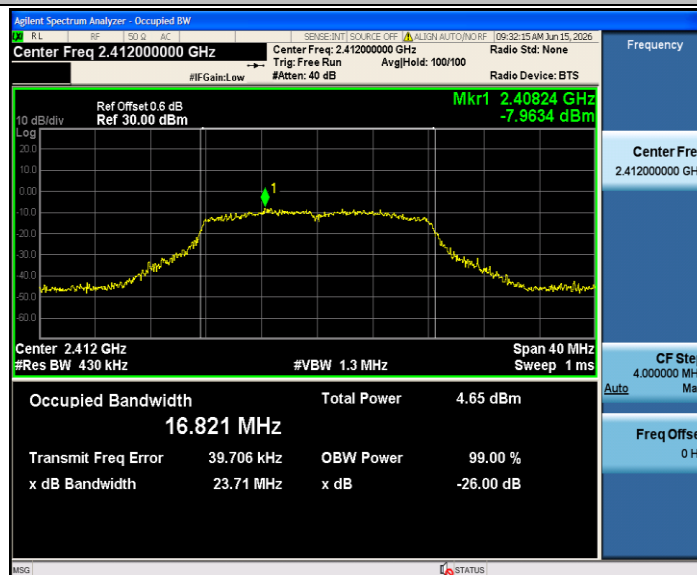
11B_Ant0_2437



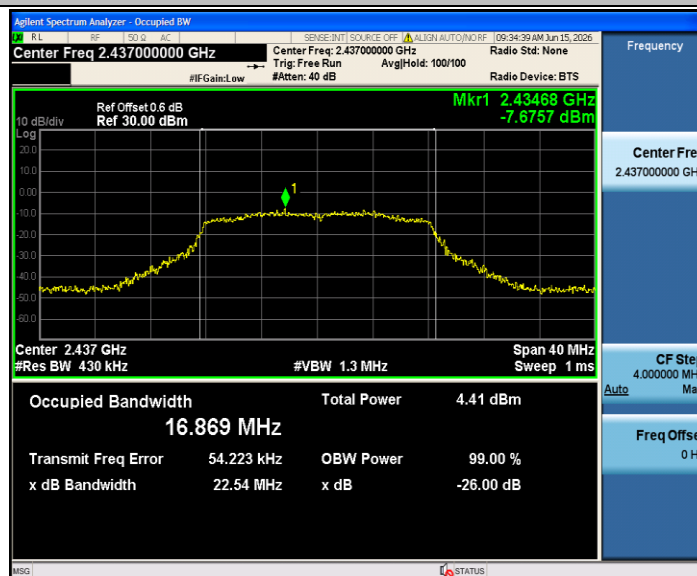
11B_Ant0_2462



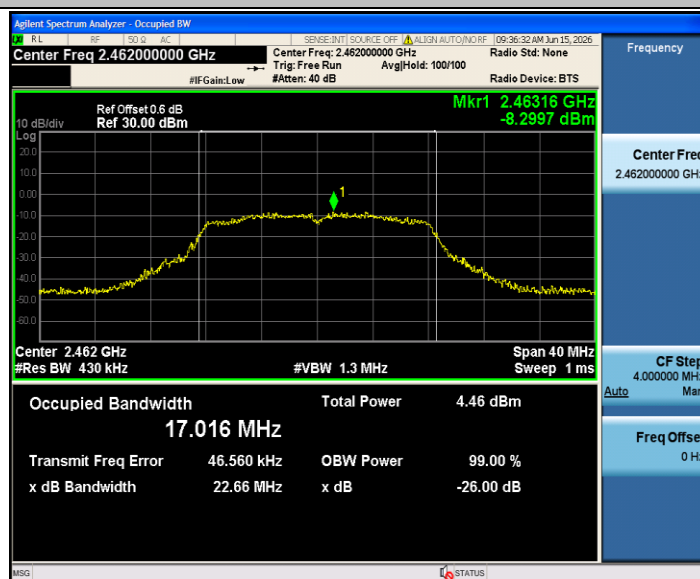
11G_Ant0_2412



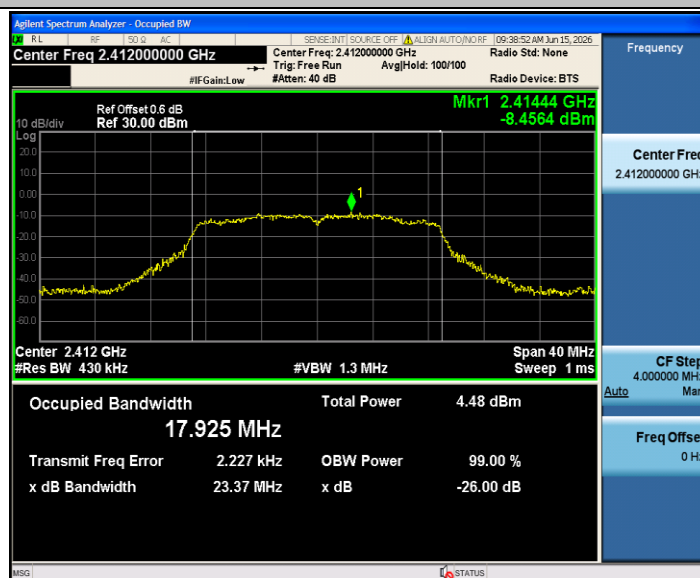
11G_Ant0_2437



11G_Ant0_2462



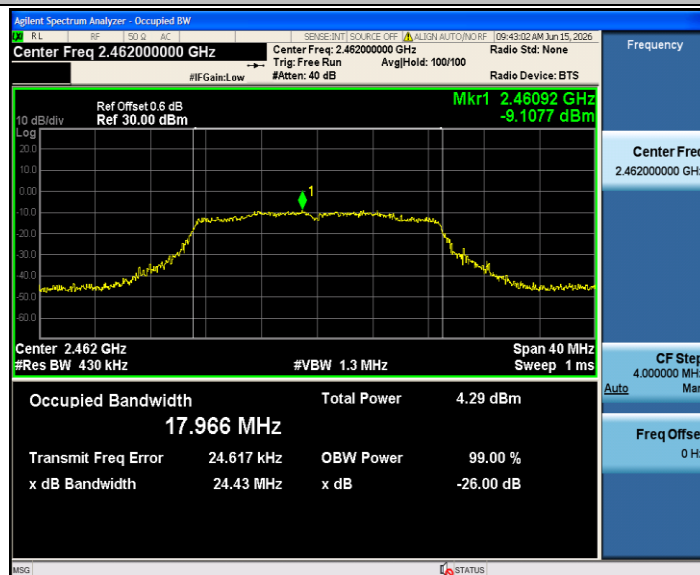
11N20SISO_Ant0_2412



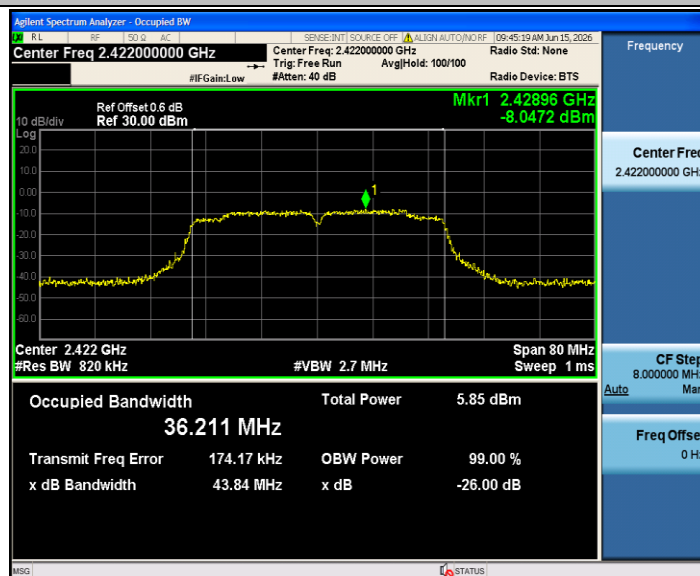
11N20SISO_Ant0_2437



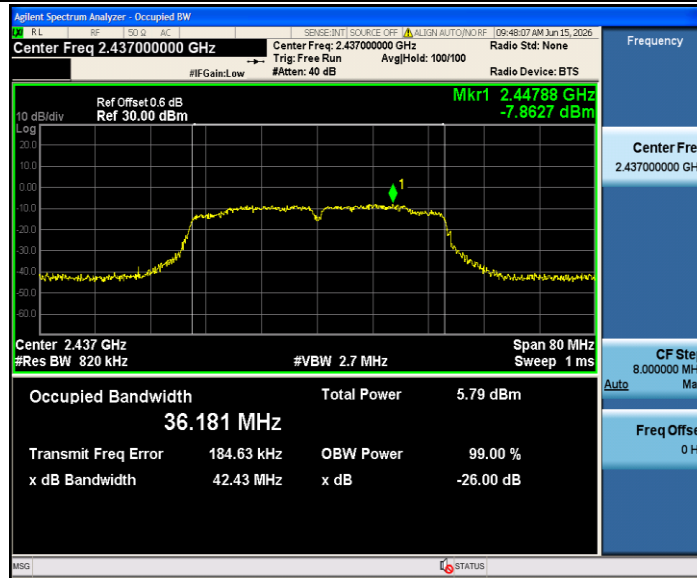
11N20SISO_Ant0_2462



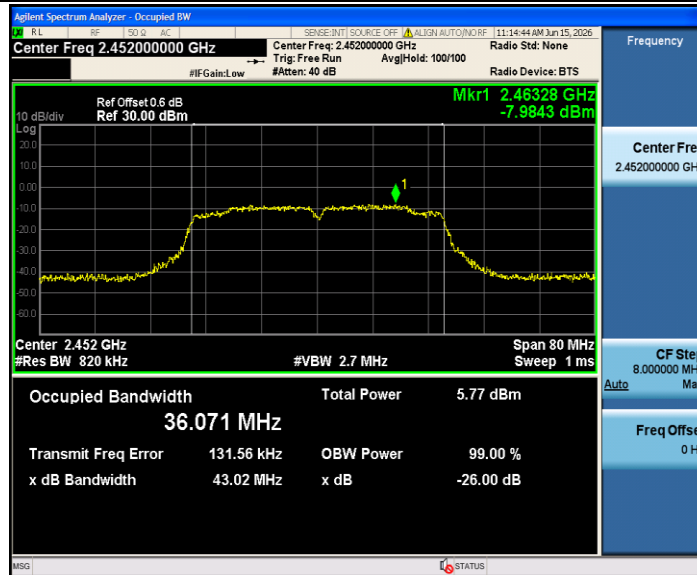
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	6.06	≤30.00	PASS
		2437	5.90	≤30.00	PASS
		2462	5.89	≤30.00	PASS
11G	Ant0	2412	5.49	≤30.00	PASS
		2437	5.39	≤30.00	PASS
		2462	5.32	≤30.00	PASS
11N20SISO	Ant0	2412	5.40	≤30.00	PASS
		2437	5.12	≤30.00	PASS
		2462	5.12	≤30.00	PASS
11N40SISO	Ant0	2422	5.28	≤30.00	PASS
		2437	5.36	≤30.00	PASS
		2452	5.56	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant0	2412	-20.28	≤8.00	PASS
		2437	-20.89	≤8.00	PASS
		2462	-20.67	≤8.00	PASS
11G	Ant0	2412	-27.00	≤8.00	PASS
		2437	-26.59	≤8.00	PASS
		2462	-26.23	≤8.00	PASS
11N20SISO	Ant0	2412	-25.74	≤8.00	PASS
		2437	-26.56	≤8.00	PASS
		2462	-26.80	≤8.00	PASS
11N40SISO	Ant0	2422	-28.01	≤8.00	PASS
		2437	-28.07	≤8.00	PASS
		2452	-28.67	≤8.00	PASS

Test Graphs

11B_Ant0_2412



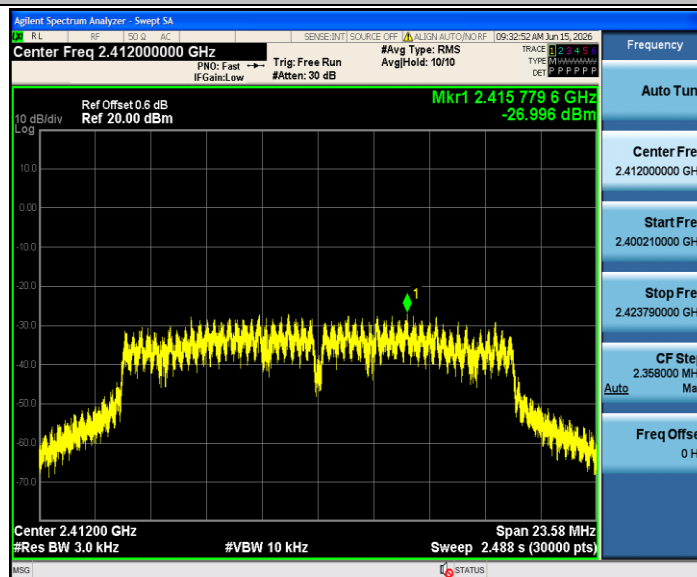
11B_Ant0_2437



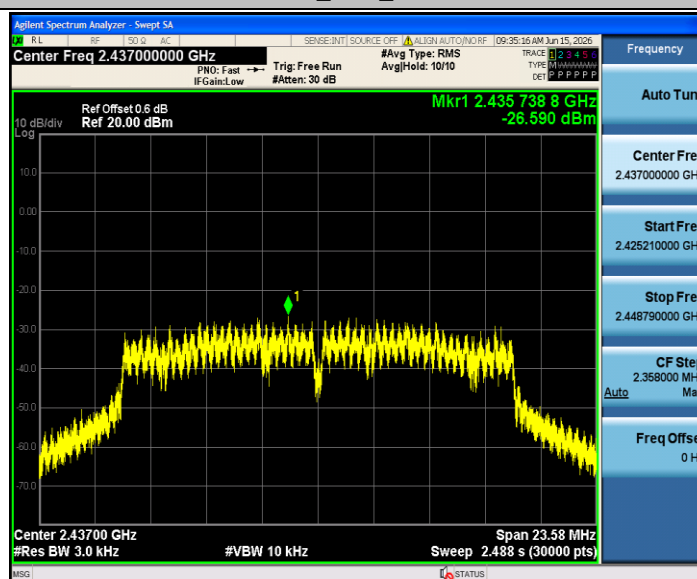
11B_Ant0_2462



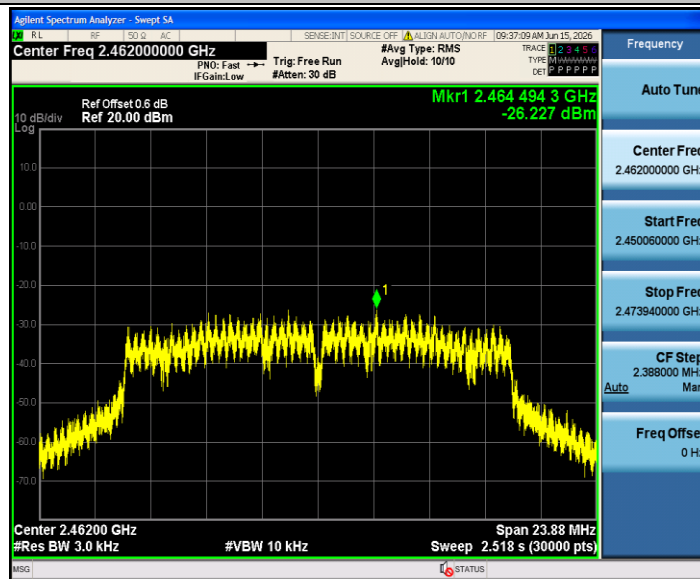
11G_Ant0_2412



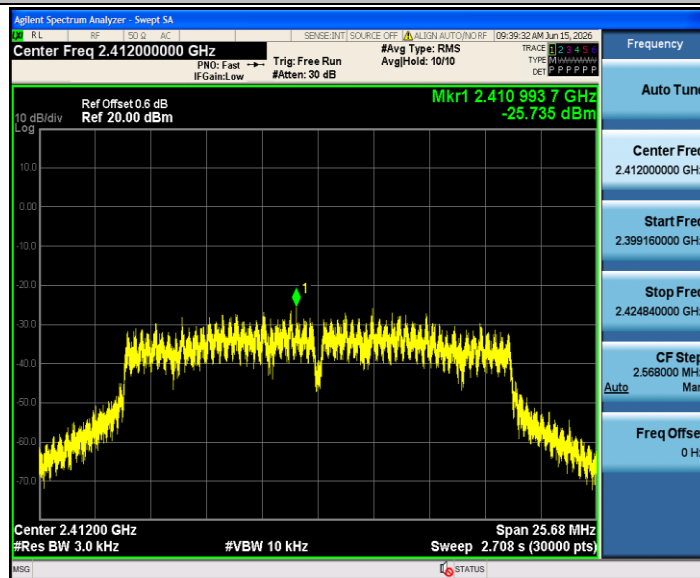
11G_Ant0_2437



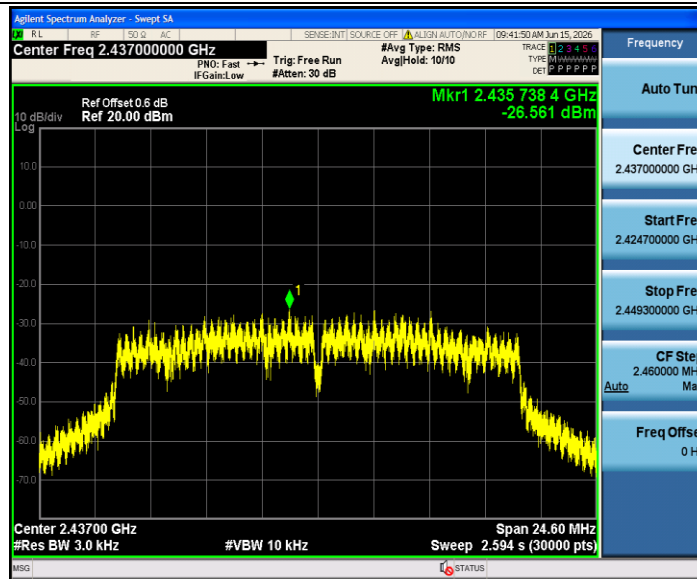
11G_Ant0_2462



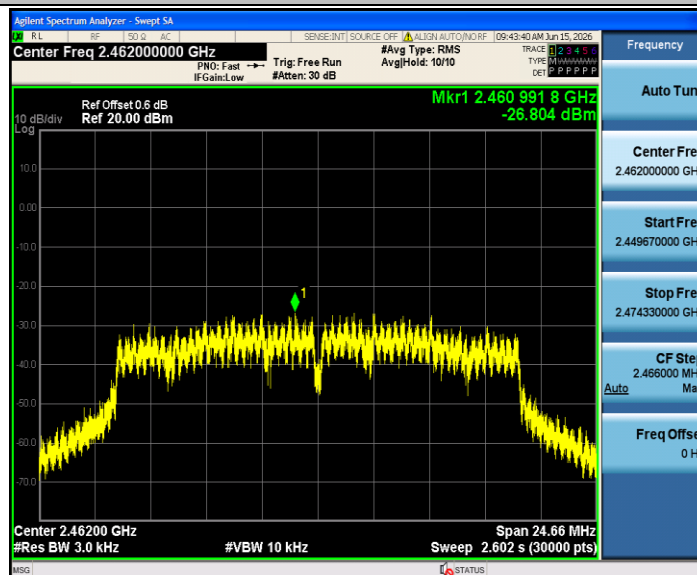
11N20SISO_Ant0_2412



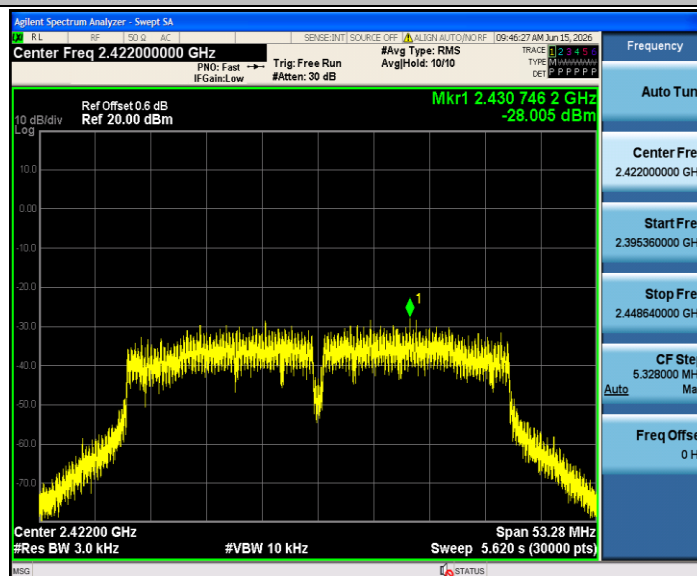
11N20SISO_Ant0_2437



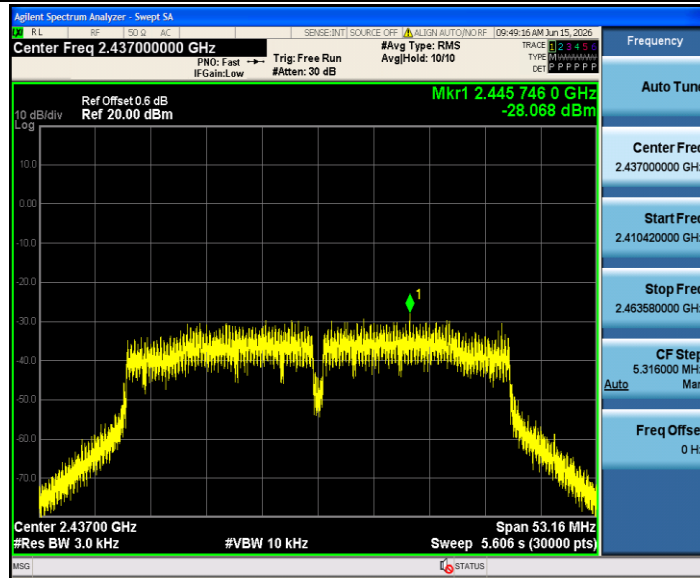
11N20SISO_Ant0_2462



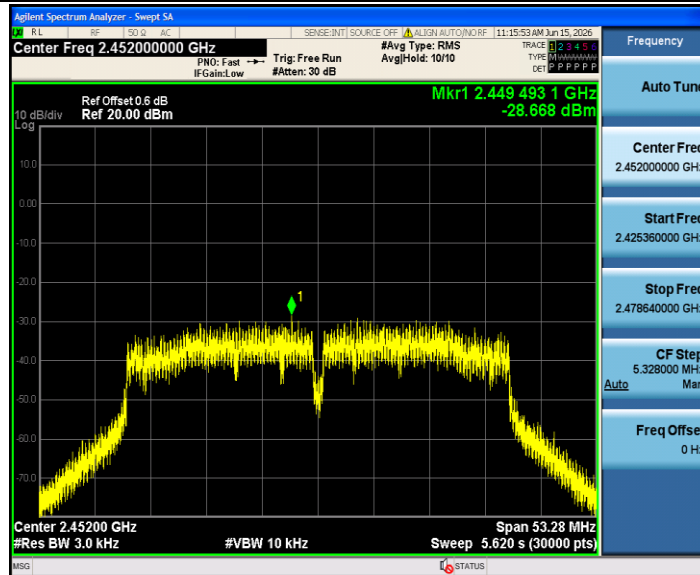
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452



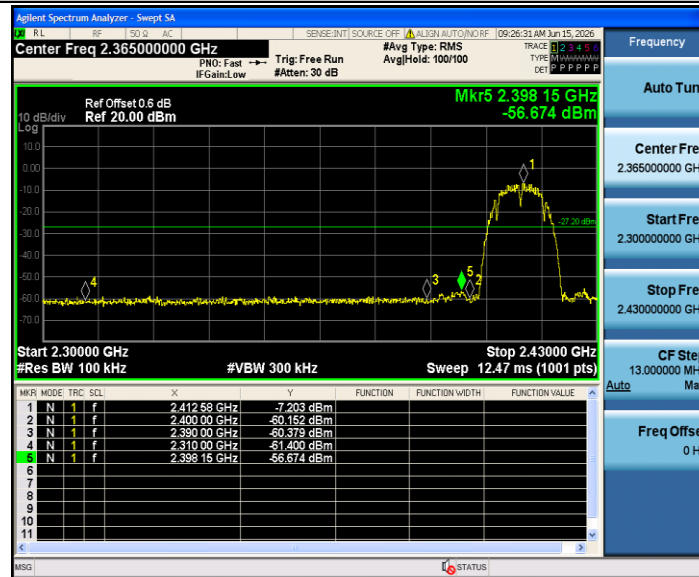
Appendix E: Band edge measurements

Test Result

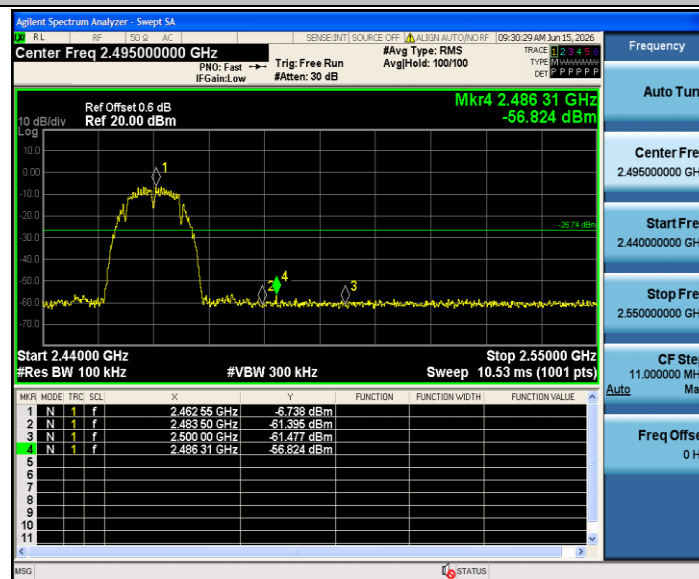
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant0	Low	2412	-7.20	-56.67	≤-27.2	PASS
		High	2462	-6.74	-56.82	≤-26.74	PASS
11G	Ant0	Low	2412	-10.99	-41.98	≤-30.99	PASS
		High	2462	-11.36	-57.87	≤-31.36	PASS
11N20SISO	Ant0	Low	2412	-10.98	-42.12	≤-30.98	PASS
		High	2462	-11.22	-58.08	≤-31.22	PASS
11N40SISO	Ant0	Low	2422	-13.73	-41.98	≤-33.73	PASS
		High	2452	-13.99	-58.2	≤-33.99	PASS

Test Graphs

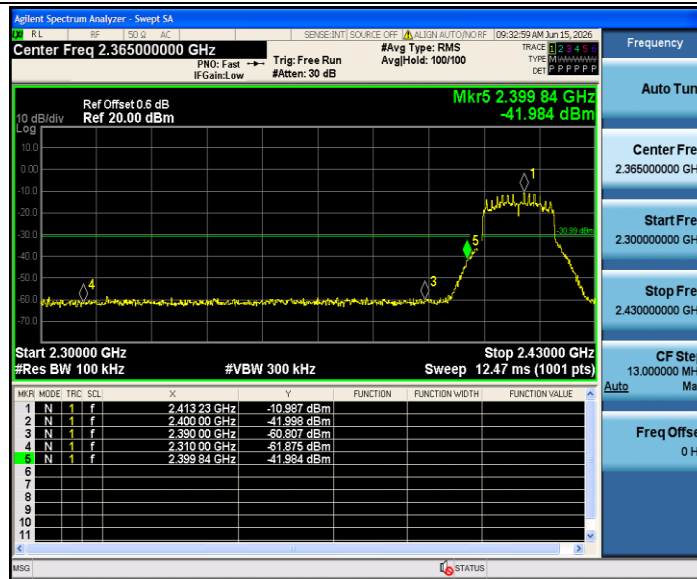
11B_Ant0_Low_2412



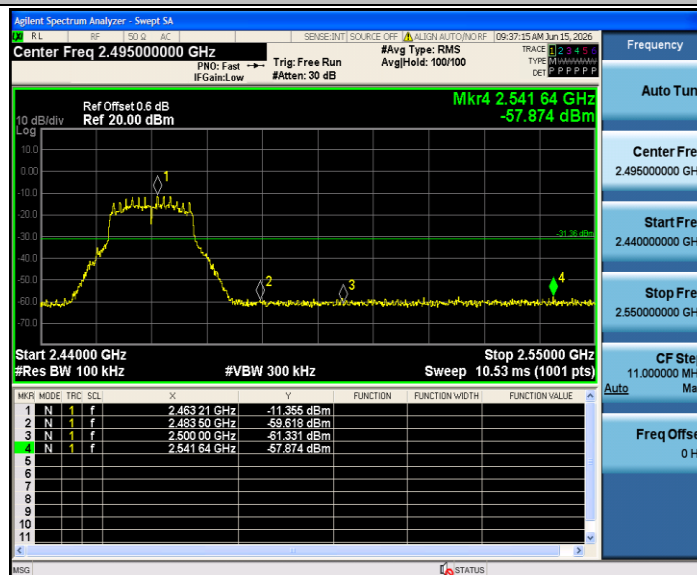
11B_Ant0_High_2462



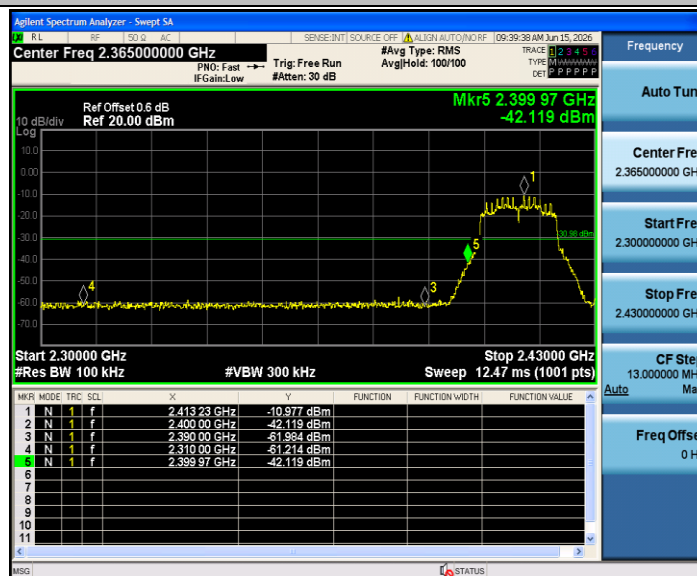
11G_Ant0_Low_2412



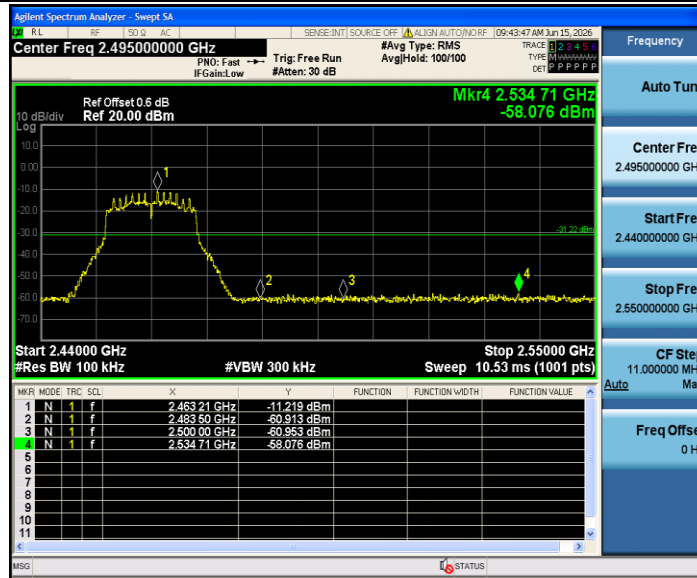
11G_Ant0_High_2462



11N20SISO_Ant0_Low_2412



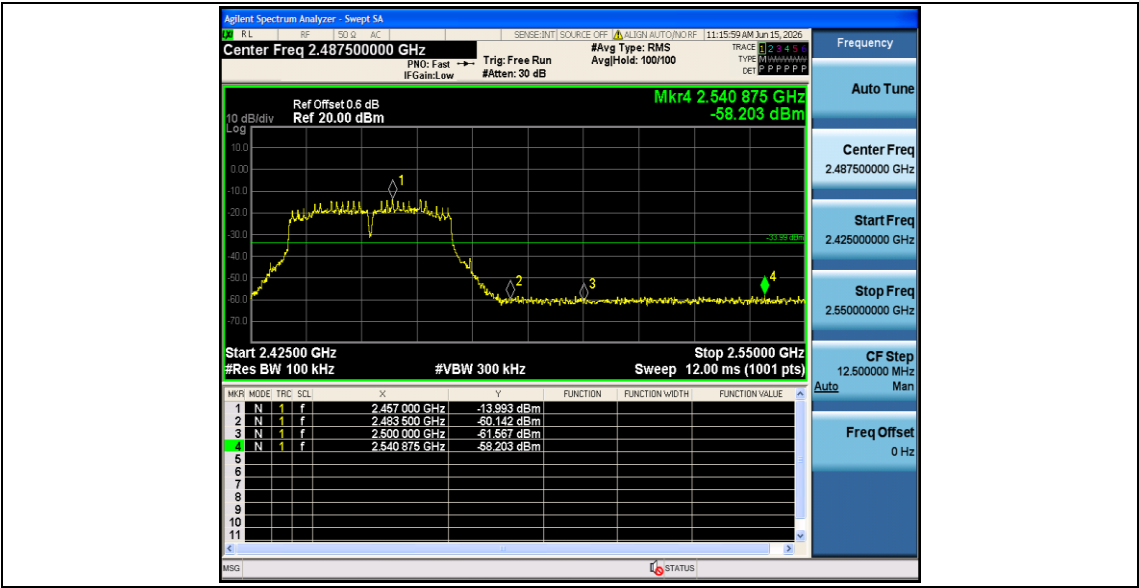
11N20SISO_Ant0_High_2462



11N40SISO_Ant0_Low_2422



11N40SISO_Ant0_High_2452



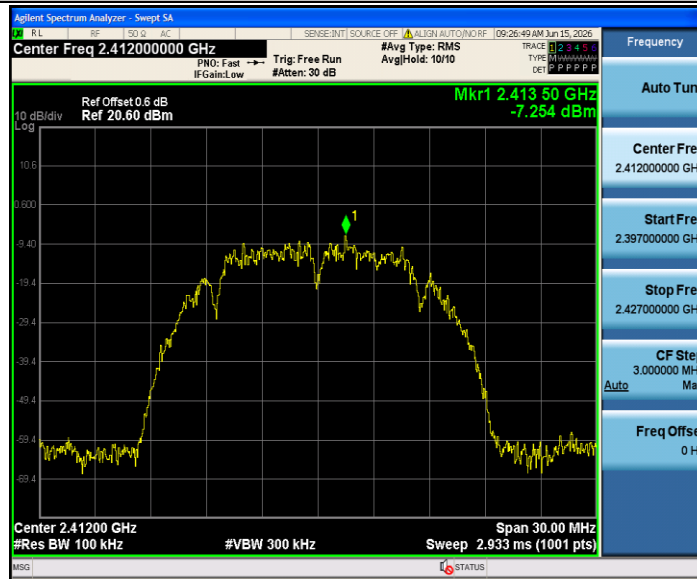
Appendix F: Conducted Spurious Emission

Test Result

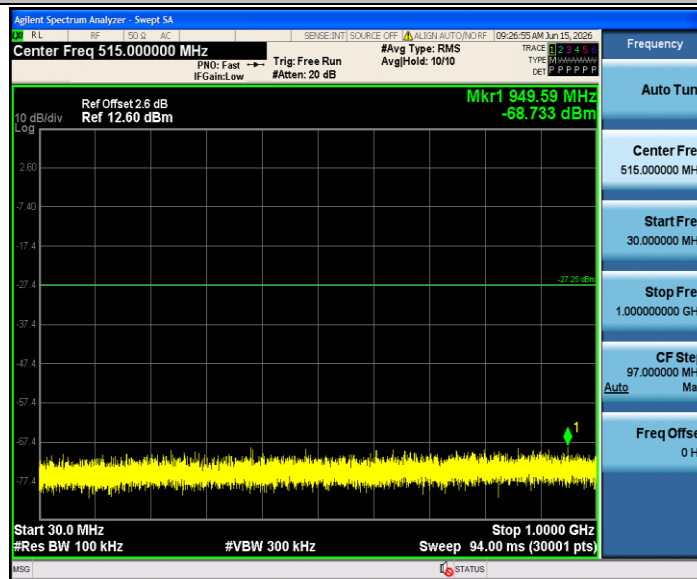
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	Reference	-7.25	-7.25	---	PASS
			30~1000	-7.25	-68.73	≤-27.25	PASS
			1000~26500	-7.25	-56.31	≤-27.25	PASS
		2437	Reference	-7.07	-7.07	---	PASS
			30~1000	-7.07	-67.84	≤-27.07	PASS
			1000~26500	-7.07	-56.16	≤-27.07	PASS
		2462	Reference	-7.25	-7.25	---	PASS
			30~1000	-7.25	-68.95	≤-27.25	PASS
			1000~26500	-7.25	-56.57	≤-27.25	PASS
11G	Ant0	2412	Reference	-11.62	-11.62	---	PASS
			30~1000	-11.62	-68.35	≤-31.62	PASS
			1000~26500	-11.62	-55.45	≤-31.62	PASS
		2437	Reference	-11.53	-11.53	---	PASS
			30~1000	-11.53	-68.07	≤-31.53	PASS
			1000~26500	-11.53	-55.85	≤-31.53	PASS
		2462	Reference	-12.06	-12.06	---	PASS
			30~1000	-12.06	-68.61	≤-32.06	PASS
			1000~26500	-12.06	-56.76	≤-32.06	PASS
11N20SISO	Ant0	2412	Reference	-11.33	-11.33	---	PASS
			30~1000	-11.33	-68.59	≤-31.33	PASS
			1000~26500	-11.33	-57.09	≤-31.33	PASS
		2437	Reference	-11.79	-11.79	---	PASS
			30~1000	-11.79	-67.67	≤-31.79	PASS
			1000~26500	-11.79	-55.68	≤-31.79	PASS
		2462	Reference	-11.44	-11.44	---	PASS
			30~1000	-11.44	-69.15	≤-31.44	PASS
			1000~26500	-11.44	-56.43	≤-31.44	PASS
11N40SISO	Ant0	2422	Reference	-14.46	-14.46	---	PASS
			30~1000	-14.46	-68.26	≤-34.46	PASS
			1000~26500	-14.46	-56.6	≤-34.46	PASS
		2437	Reference	-14.61	-14.61	---	PASS
			30~1000	-14.61	-68.95	≤-34.61	PASS
			1000~26500	-14.61	-56.25	≤-34.61	PASS
		2452	Reference	-14.57	-14.57	---	PASS
			30~1000	-14.57	-68.81	≤-34.57	PASS
			1000~26500	-14.57	-56.3	≤-34.57	PASS

Test Graphs

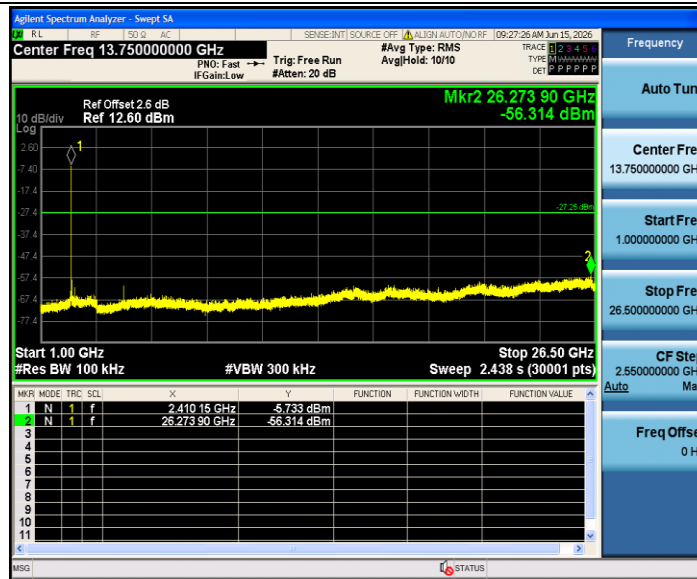
11B_Ant0_2412_0~Reference



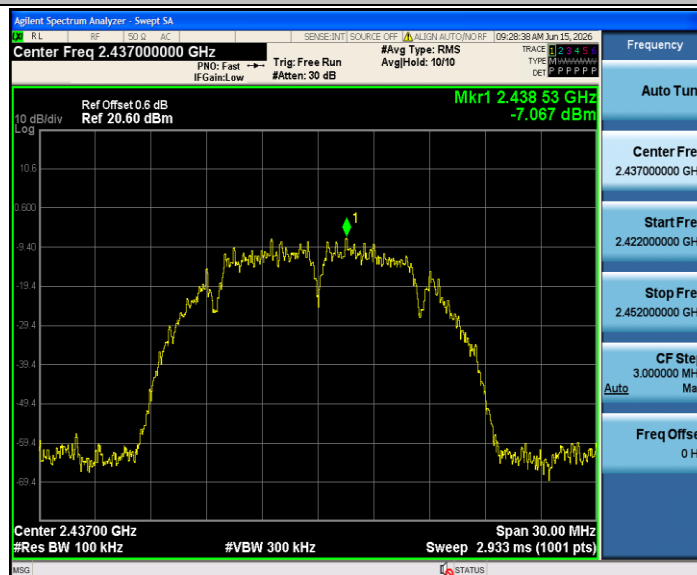
11B_Ant0_2412_30~1000



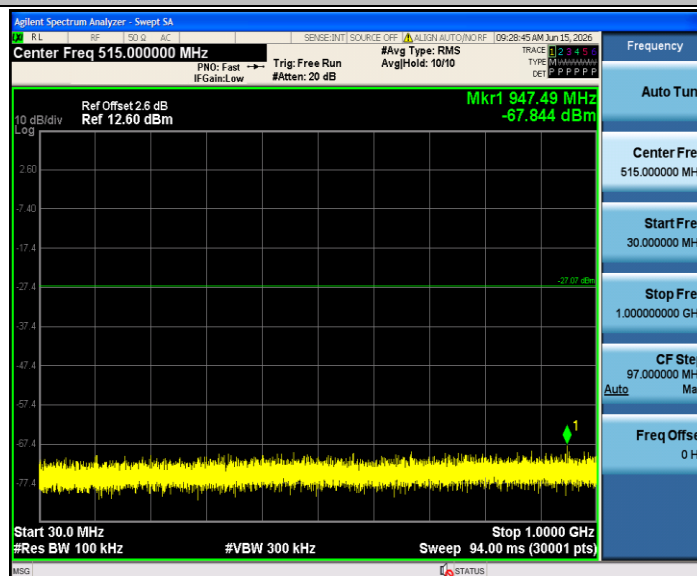
11B_Ant0_2412_1000~26500



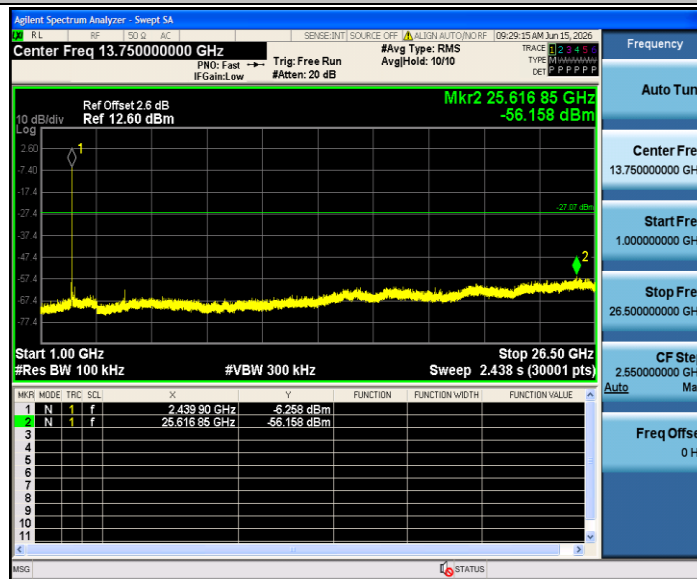
11B_Ant0_2437_0~Reference



11B_Ant0_2437_30~1000



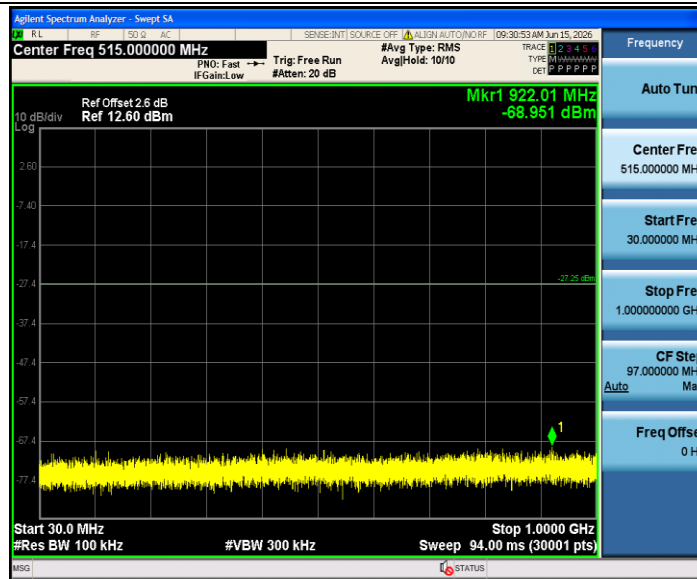
11B_Ant0_2437_1000~26500



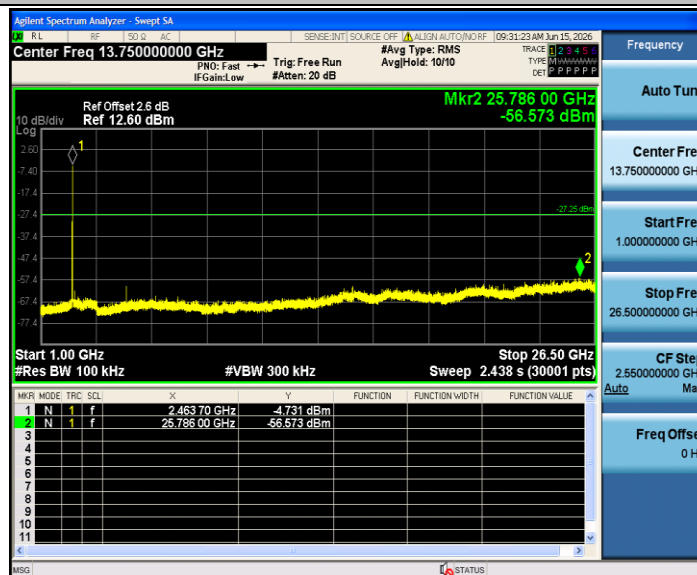
11B_Ant0_2462_0~Reference



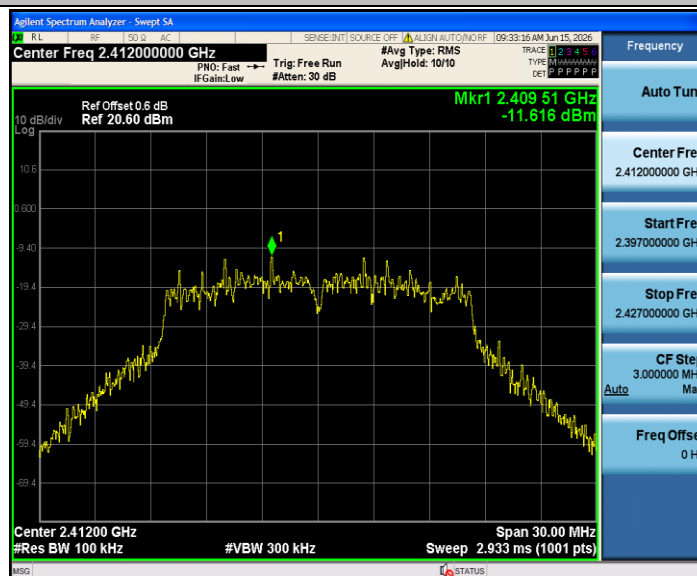
11B_Ant0_2462_30~1000



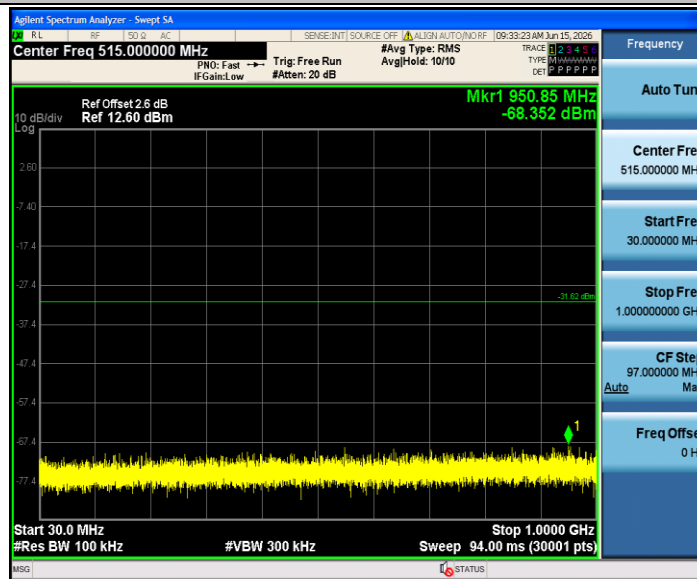
11B_Ant0_2462_1000~26500



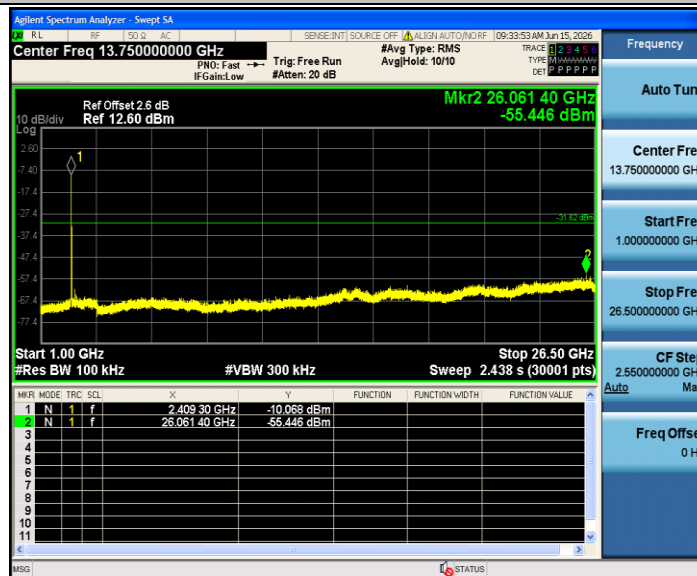
11G_Ant0_2412_0~Reference



11G_Ant0_2412_30~1000



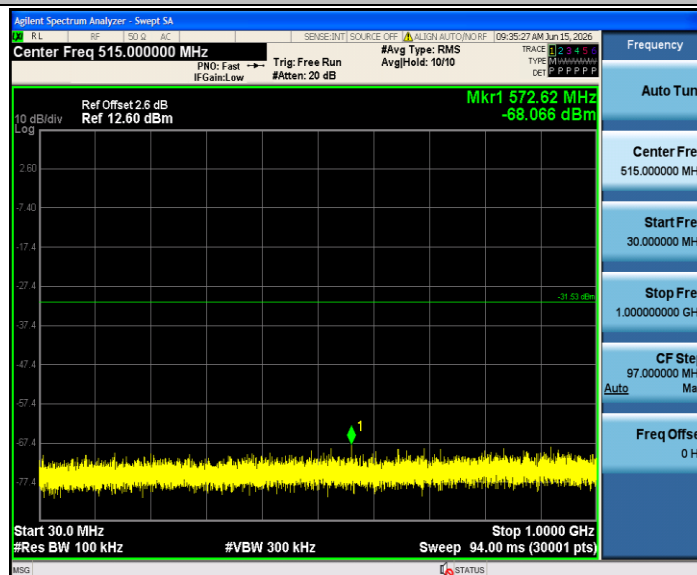
11G_Ant0_2412_1000~26500



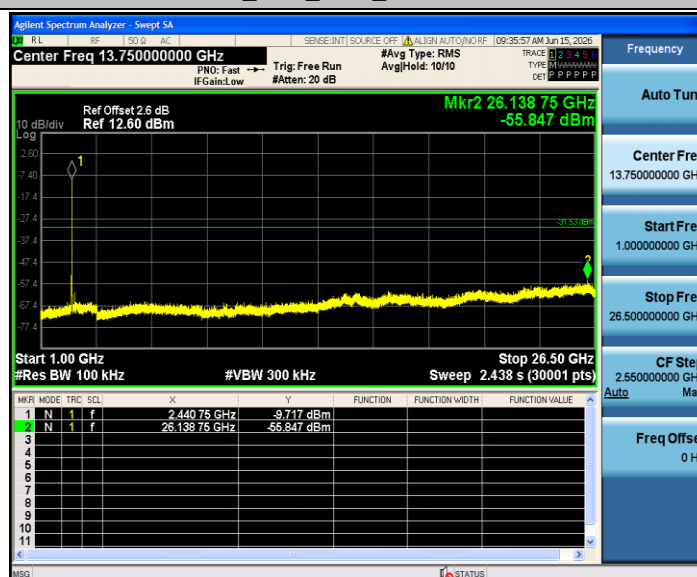
11G_Ant0_2437_0~Reference



11G_Ant0_2437_30~1000



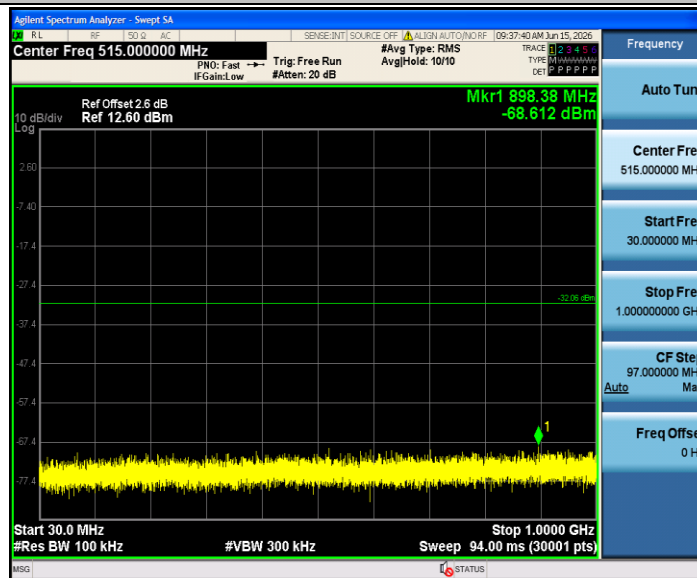
11G_Ant0_2437_1000~26500



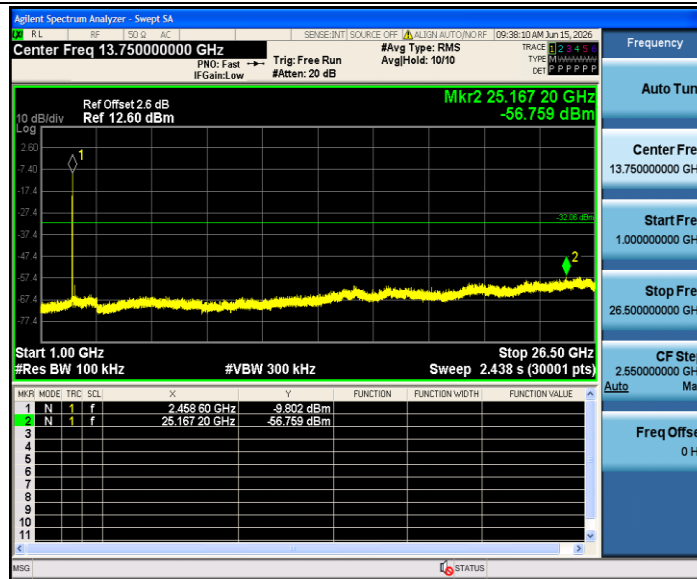
11G_Ant0_2462_0~Reference



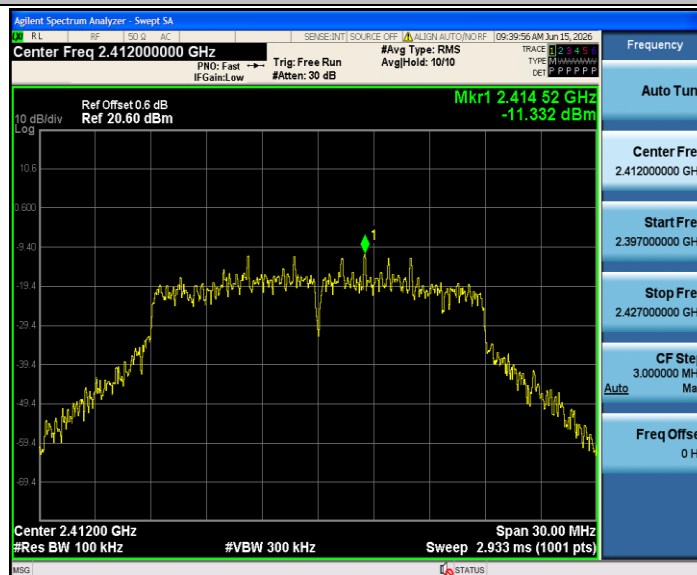
11G_Ant0_2462_30~1000



11G_Ant0_2462_1000~26500



11N20SISO_Ant0_2412_0~Reference



11N20SISO_Ant0_2412_30~1000

