

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BUNP-FLIGHTWALL

Company : Shenzhen Caixin Technology Co., Ltd

EUT : TheFlightWall Mini

Model Number : TheFlightWall Mini

Report No. : CTA26012000101

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	10.240	2406.920	2417.160	0.5	PASS
		2437	10.200	2431.960	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	16.000	2404.080	2420.080	0.5	PASS
		2437	15.800	2429.120	2444.920	0.5	PASS
		2462	15.440	2454.360	2469.800	0.5	PASS
11N20SISO	Ant1	2412	16.920	2403.720	2420.640	0.5	PASS
		2437	16.400	2428.720	2445.120	0.5	PASS
		2462	17.200	2453.440	2470.640	0.5	PASS

Test Graphs

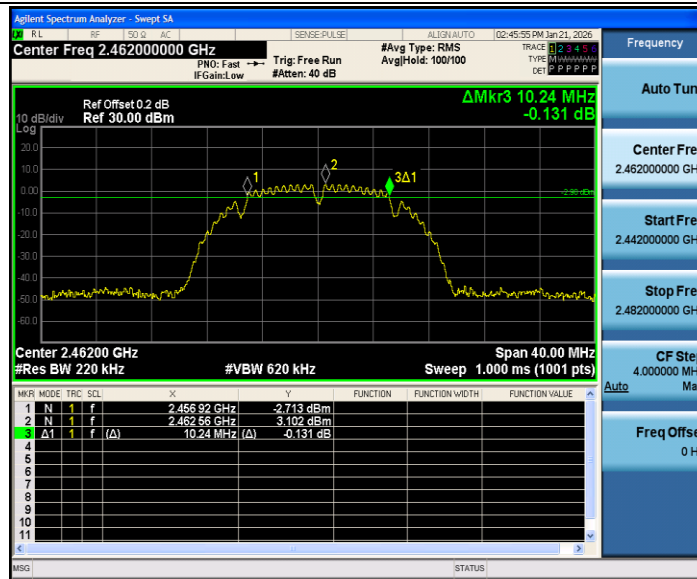
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



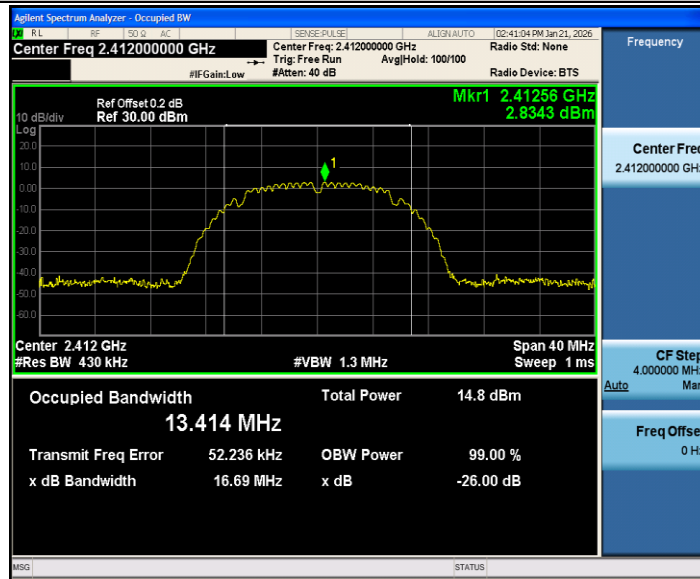
Appendix B: Occupied Channel Bandwidth

Test Result

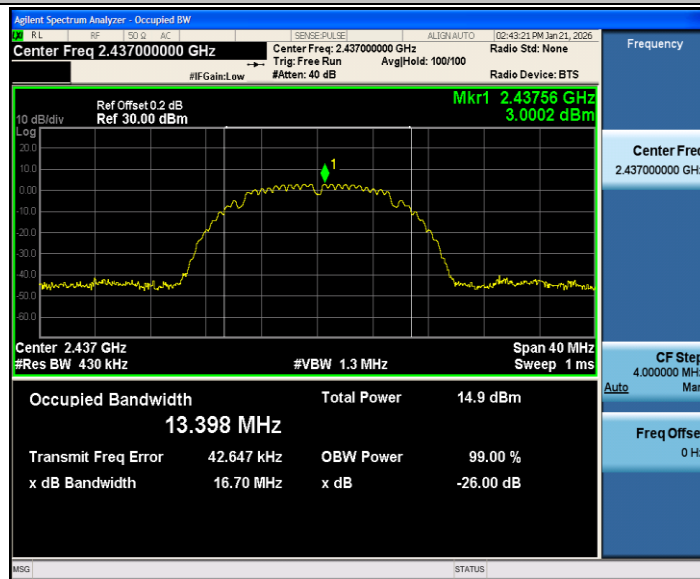
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.414	2405.3452	2418.7592	---	---
		2437	13.398	2430.3437	2443.7417	---	---
		2462	13.414	2455.3147	2468.7287	---	---
11G	Ant1	2412	16.808	2403.6760	2420.4840	---	---
		2437	16.810	2428.6901	2445.5001	---	---
		2462	16.876	2453.6348	2470.5108	---	---
11N20SISO	Ant1	2412	17.839	2403.1130	2420.9520	---	---
		2437	17.870	2428.1261	2445.9961	---	---
		2462	17.937	2453.0101	2470.9471	---	---

Test Graphs

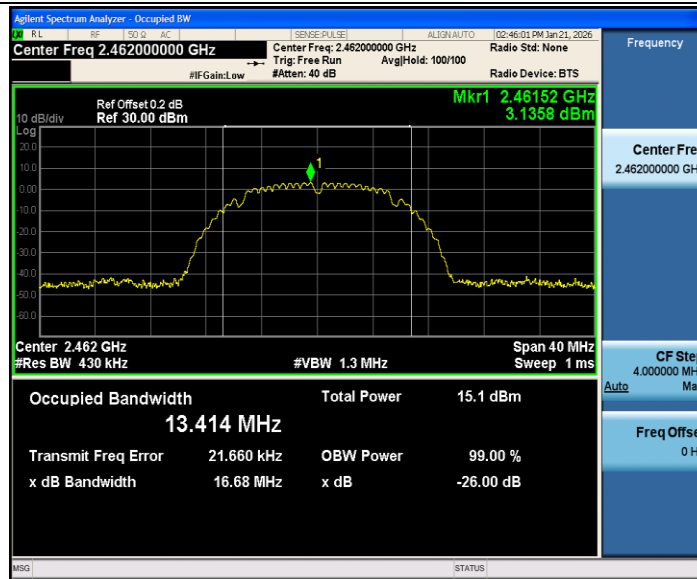
11B_Ant1_2412



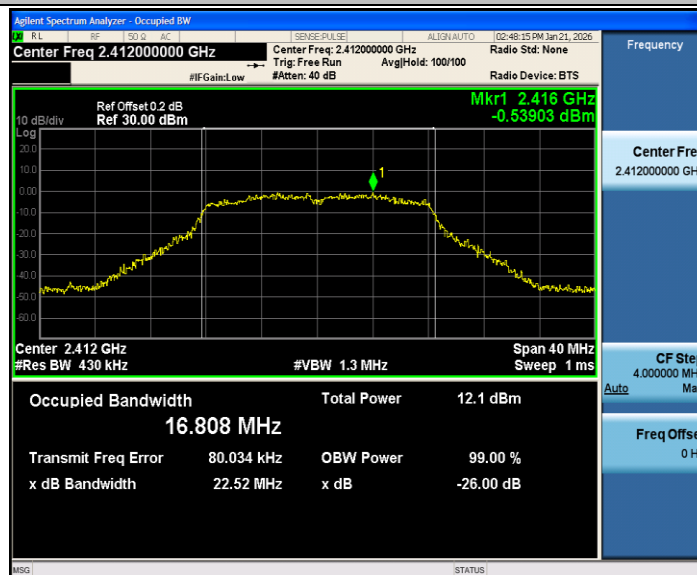
11B_Ant1_2437



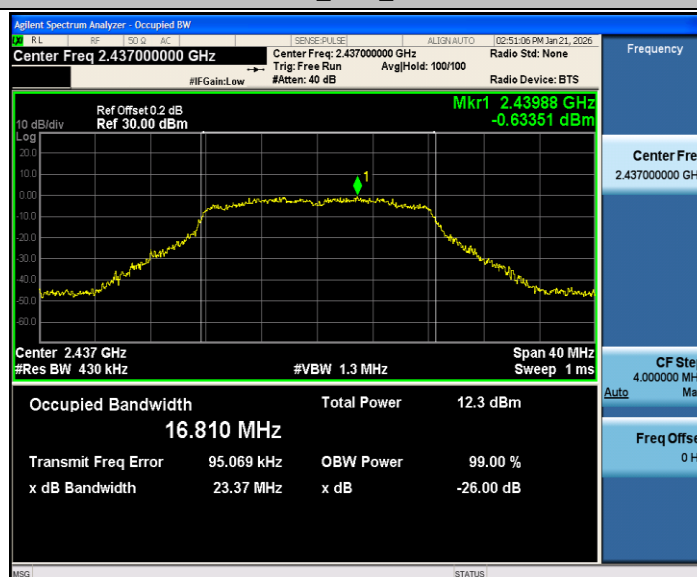
11B_Ant1_2462



11G_Ant1_2412



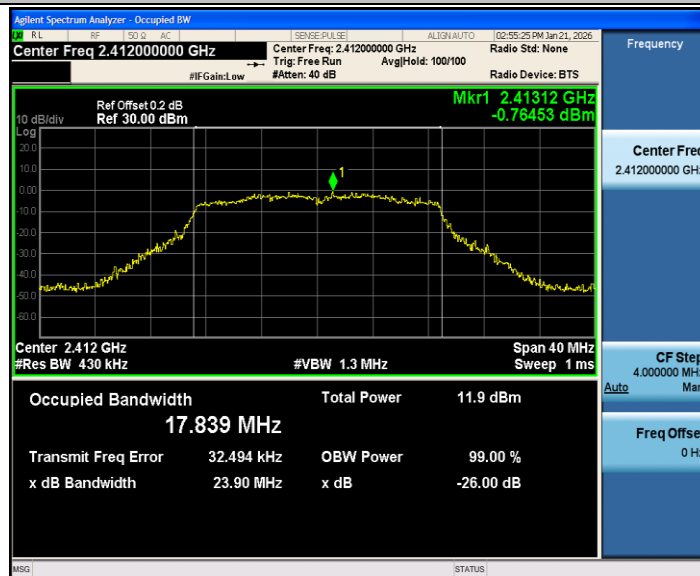
11G_Ant1_2437



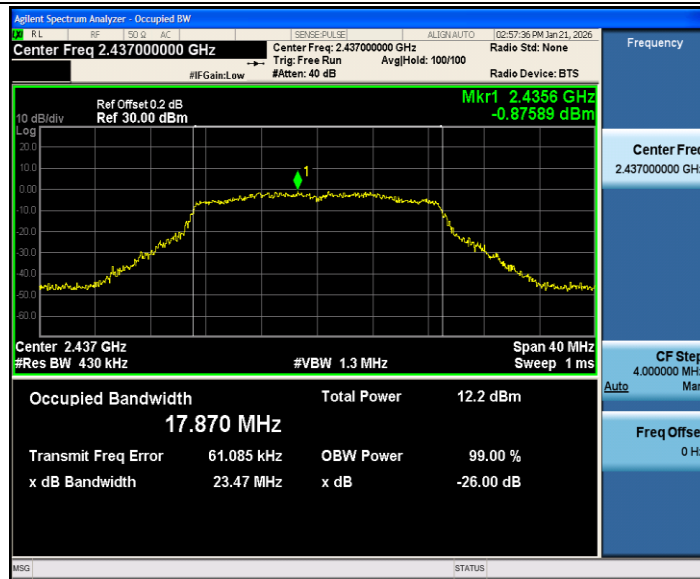
11G_Ant1_2462



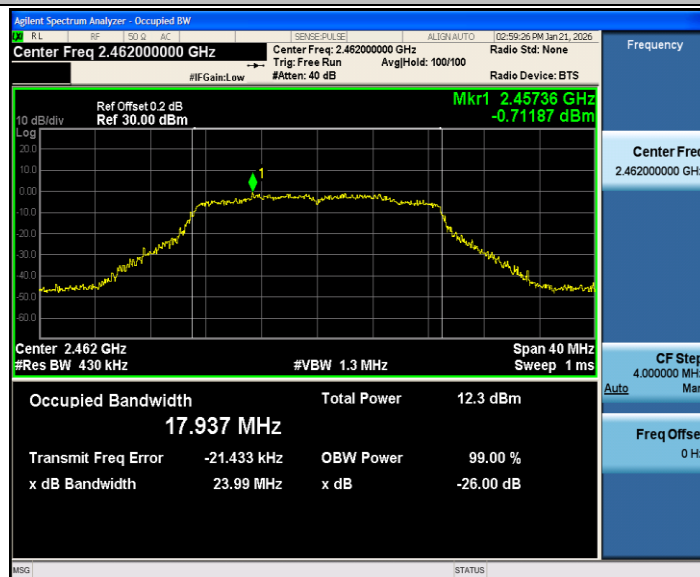
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.48	≤30.00	PASS
		2437	14.56	≤30.00	PASS
		2462	14.79	≤30.00	PASS
11G	Ant1	2412	13.01	≤30.00	PASS
		2437	13.16	≤30.00	PASS
		2462	13.24	≤30.00	PASS
11N20SISO	Ant1	2412	12.81	≤30.00	PASS
		2437	12.97	≤30.00	PASS
		2462	13.26	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

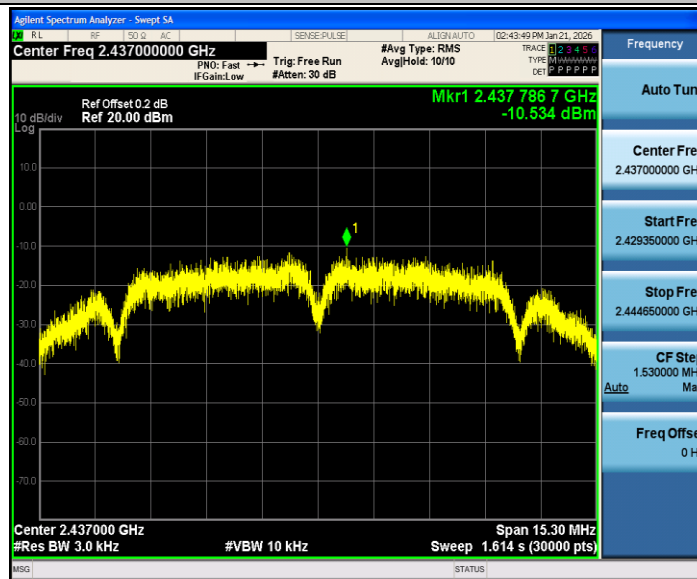
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.71	≤8.00	PASS
		2437	-10.53	≤8.00	PASS
		2462	-11.41	≤8.00	PASS
11G	Ant1	2412	-18.27	≤8.00	PASS
		2437	-18.26	≤8.00	PASS
		2462	-18.97	≤8.00	PASS
11N20SISO	Ant1	2412	-19.31	≤8.00	PASS
		2437	-18.58	≤8.00	PASS
		2462	-18.06	≤8.00	PASS

Test Graphs

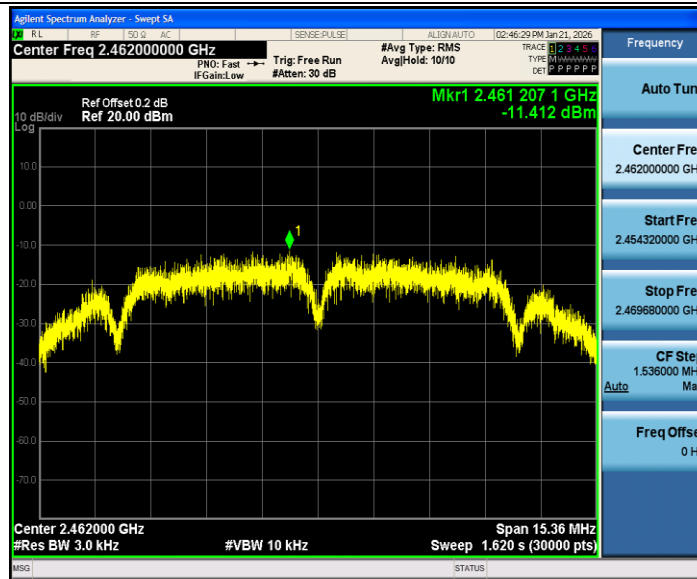
11B_Ant1_2412



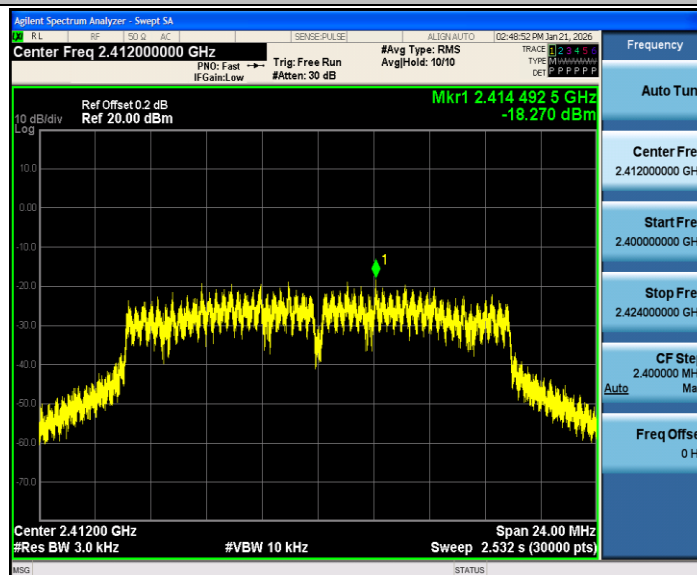
11B_Ant1_2437



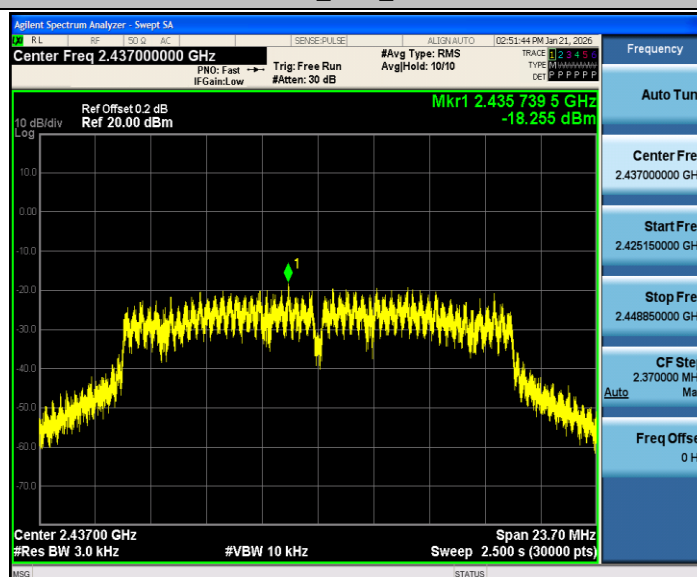
11B_Ant1_2462



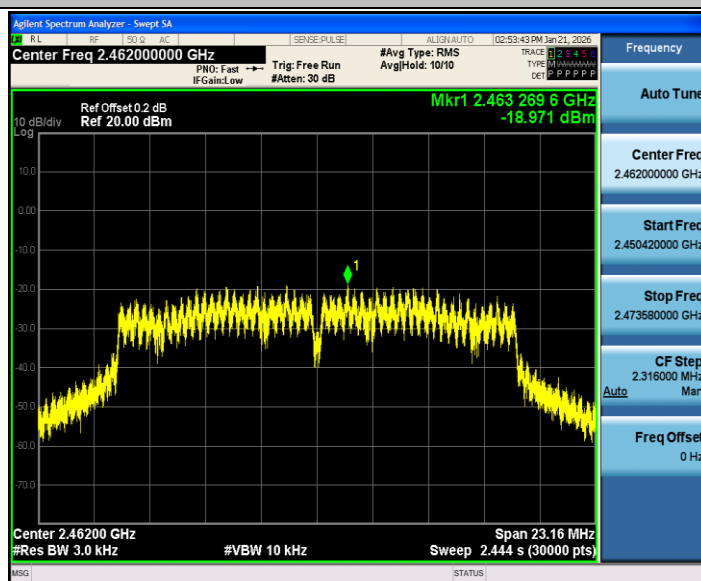
11G_Ant1_2412



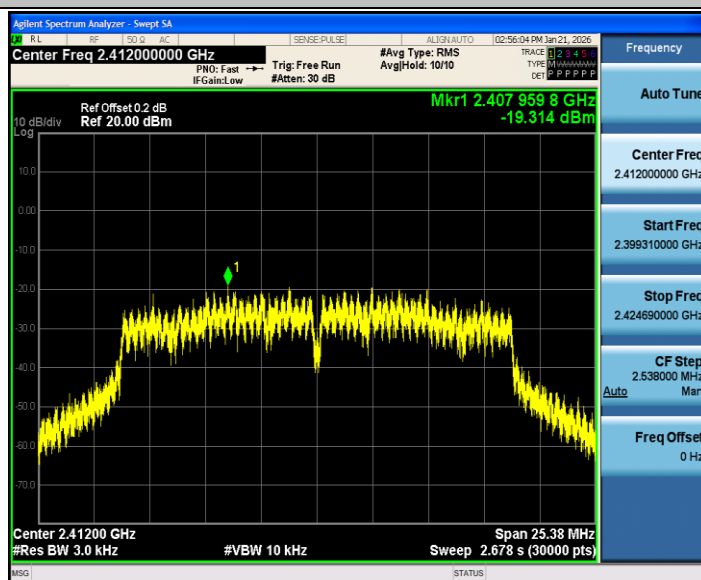
11G_Ant1_2437



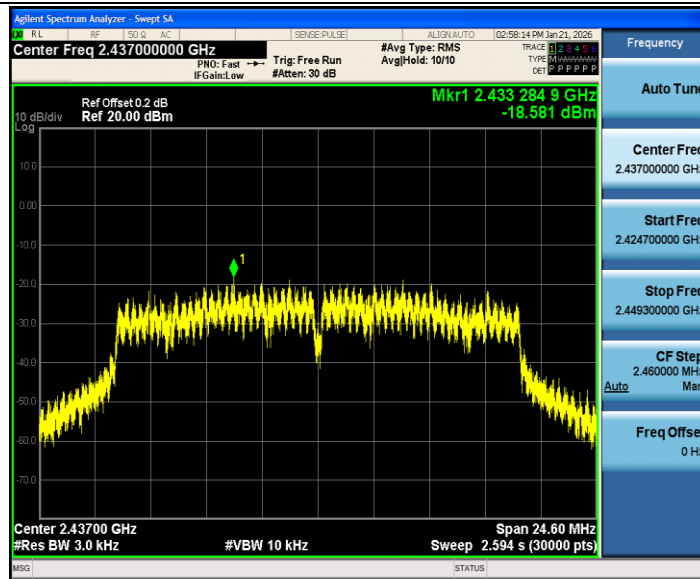
11G_Ant1_2462



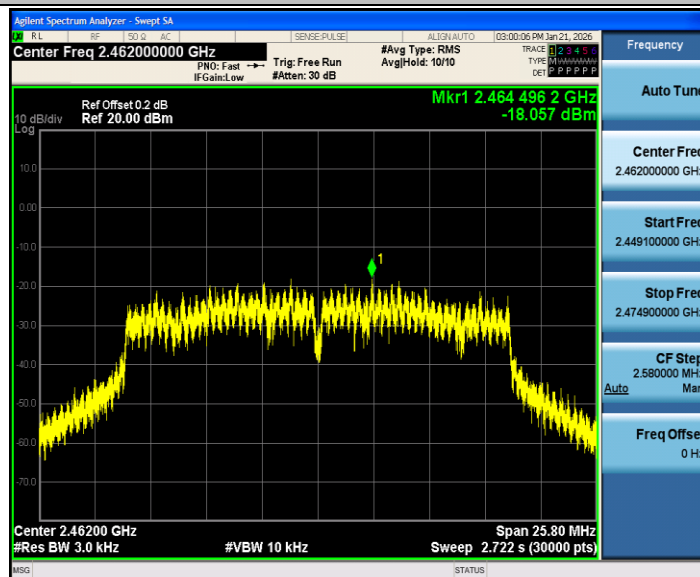
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



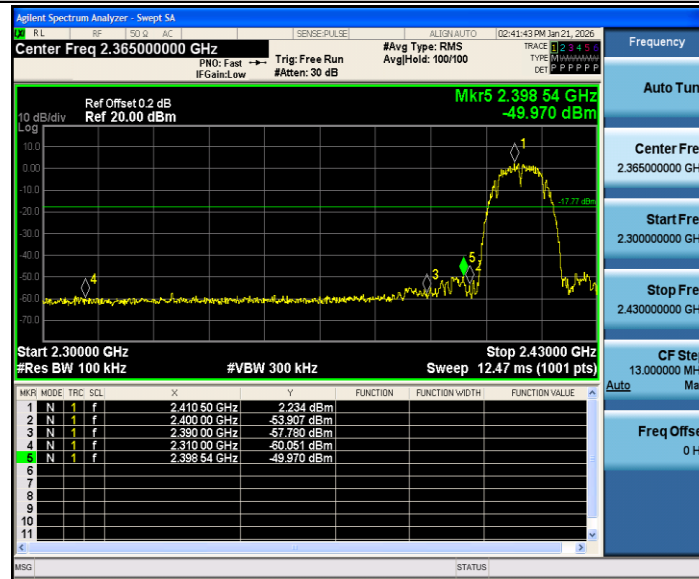
Appendix E: Band edge measurements

Test Result

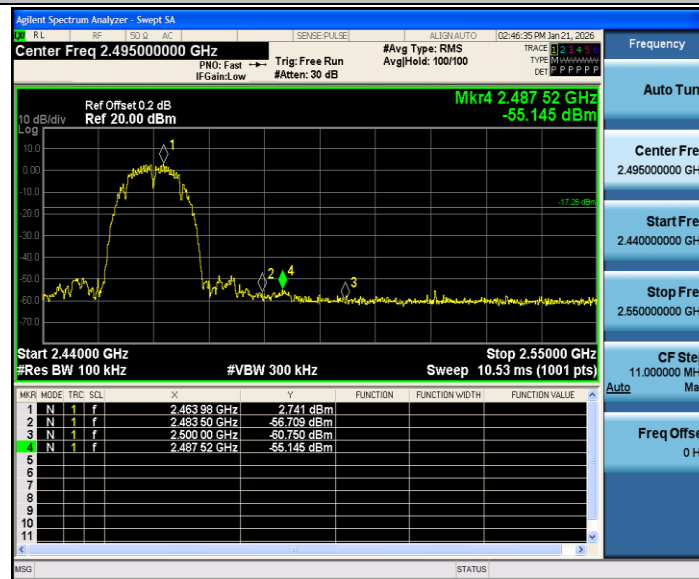
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.23	-49.97	≤-17.77	PASS
		High	2462	2.74	-55.15	≤-17.26	PASS
11G	Ant1	Low	2412	-3.35	-35.55	≤-23.35	PASS
		High	2462	-3.15	-56.84	≤-23.15	PASS
11N20SISO	Ant1	Low	2412	-3.68	-36.01	≤-23.68	PASS
		High	2462	-3.03	-58.11	≤-23.03	PASS

Test Graphs

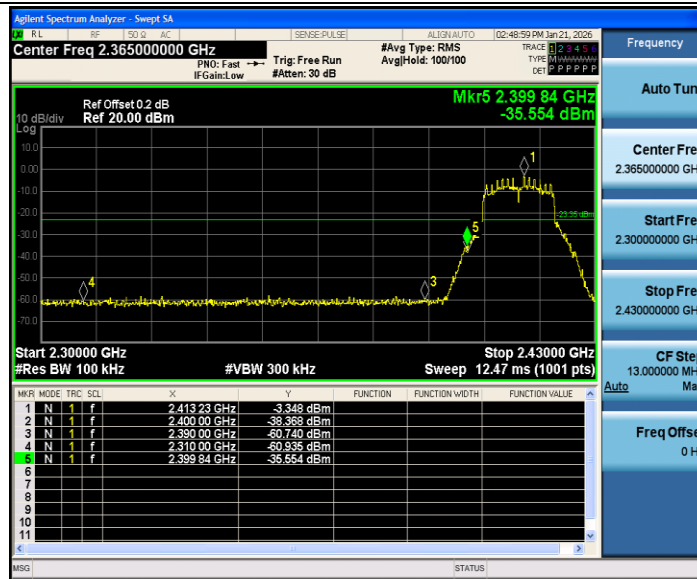
11B_Ant1_Low_2412



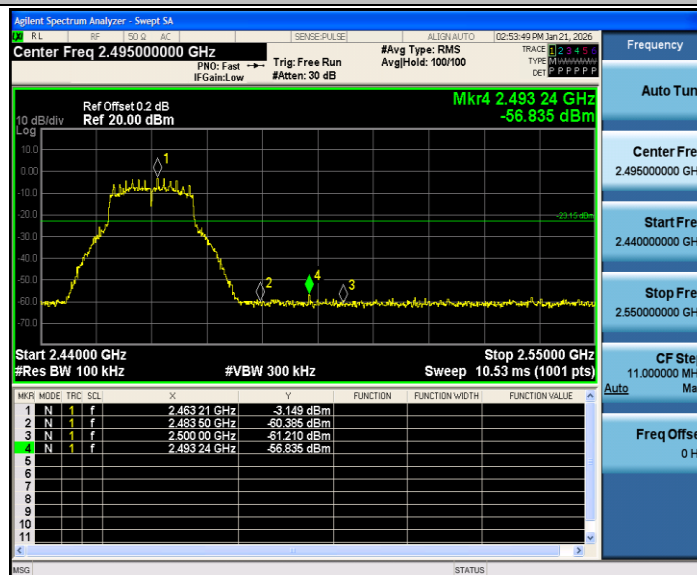
11B_Ant1_High_2462



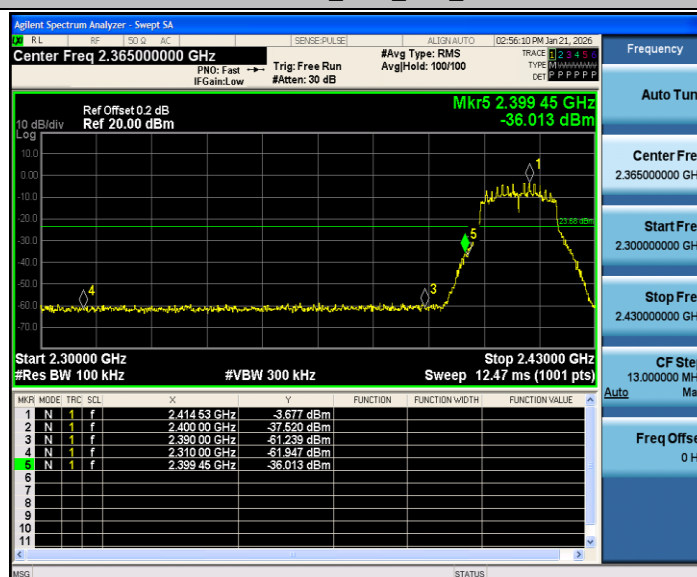
11G_Ant1_Low_2412



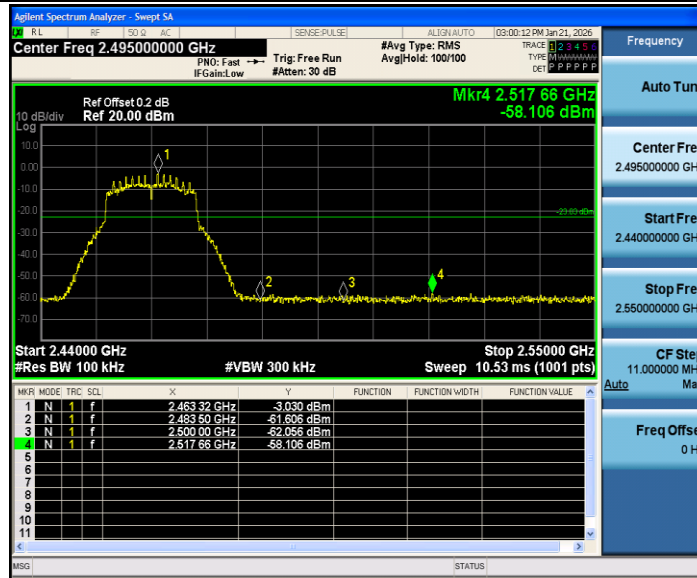
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

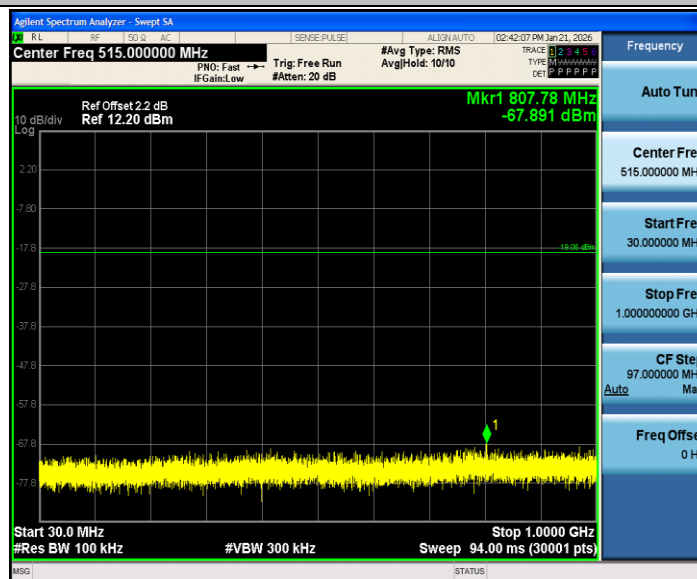
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.94	0.94	---	PASS
			30~1000	0.94	-67.89	≤-19.06	PASS
			1000~26500	0.94	-54.31	≤-19.06	PASS
		2437	Reference	1.87	1.87	---	PASS
			30~1000	1.87	-68.18	≤-18.13	PASS
			1000~26500	1.87	-54.6	≤-18.13	PASS
		2462	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-68.52	≤-18.41	PASS
			1000~26500	1.59	-54.88	≤-18.41	PASS
11G	Ant1	2412	Reference	-4.33	-4.33	---	PASS
			30~1000	-4.33	-67.81	≤-24.33	PASS
			1000~26500	-4.33	-55.61	≤-24.33	PASS
		2437	Reference	-3.76	-3.76	---	PASS
			30~1000	-3.76	-68.49	≤-23.76	PASS
			1000~26500	-3.76	-55.65	≤-23.76	PASS
		2462	Reference	-3.77	-3.77	---	PASS
			30~1000	-3.77	-68.56	≤-23.77	PASS
			1000~26500	-3.77	-54.58	≤-23.77	PASS
11N20SISO	Ant1	2412	Reference	-4.32	-4.32	---	PASS
			30~1000	-4.32	-67.34	≤-24.32	PASS
			1000~26500	-4.32	-54.95	≤-24.32	PASS
		2437	Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-68.38	≤-24.08	PASS
			1000~26500	-4.08	-56	≤-24.08	PASS
		2462	Reference	-3.38	-3.38	---	PASS
			30~1000	-3.38	-68	≤-23.38	PASS
			1000~26500	-3.38	-55.22	≤-23.38	PASS

Test Graphs

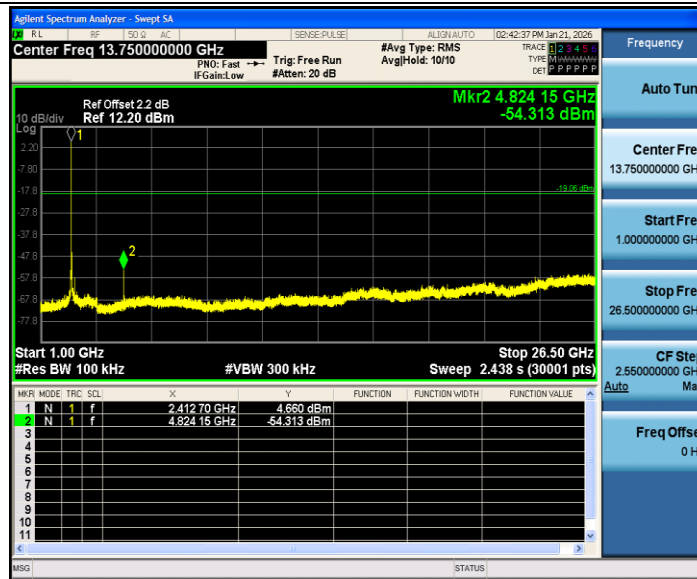
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



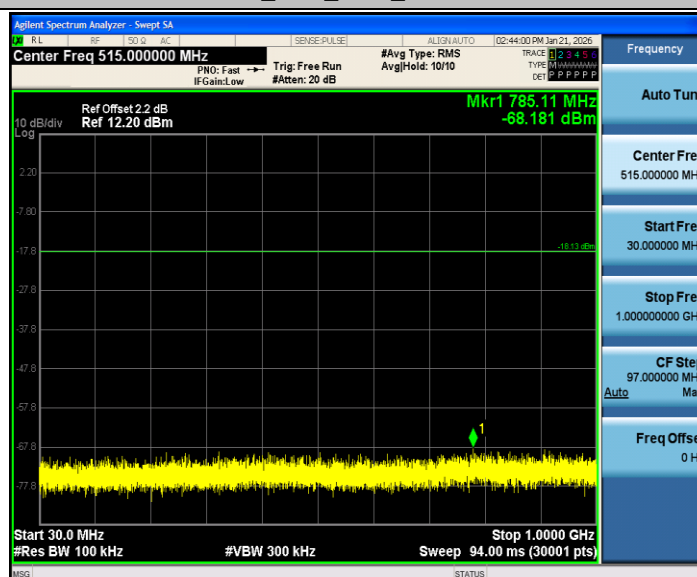
11B_Ant1_2412_1000~26500



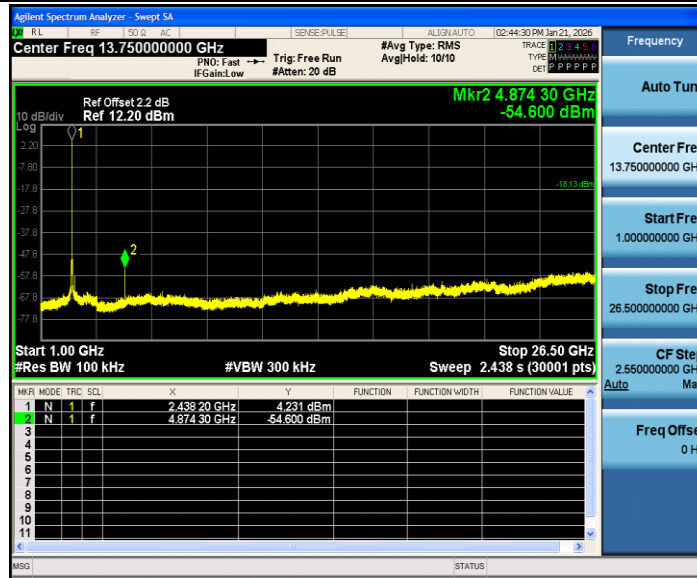
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



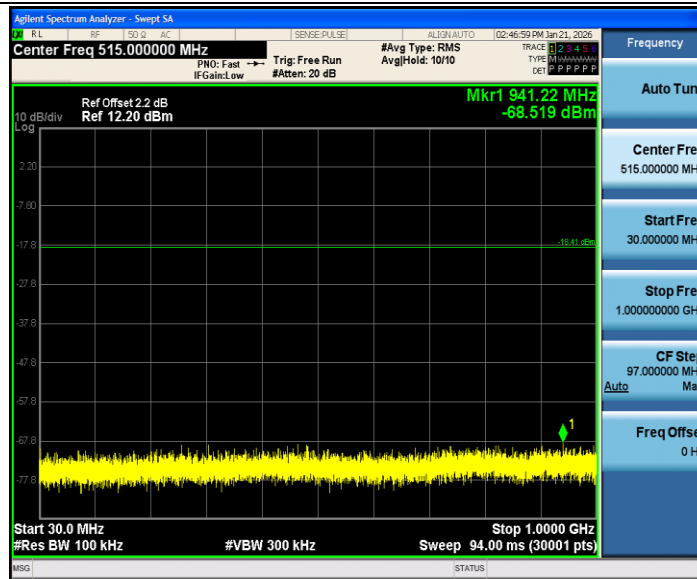
11B_Ant1_2437_1000~26500



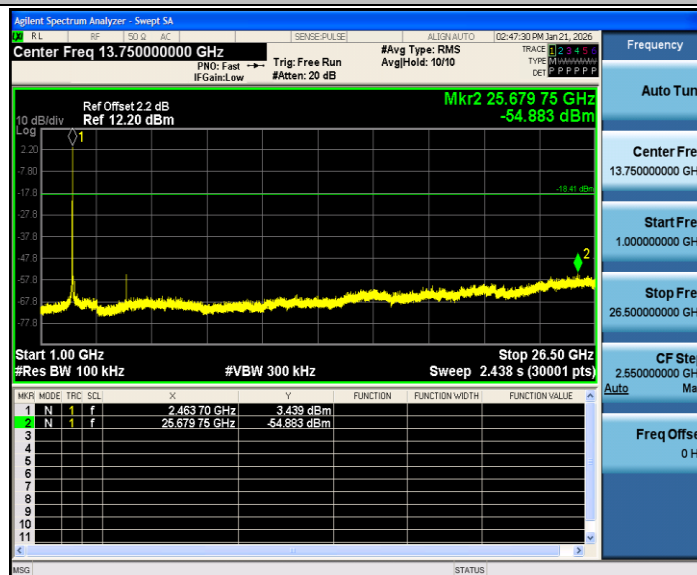
11B_Ant1_2462_0~Reference



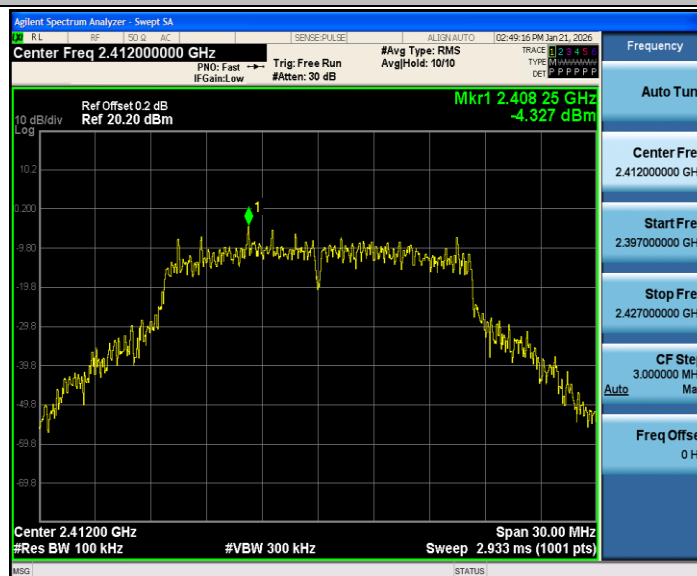
11B_Ant1_2462_30~1000



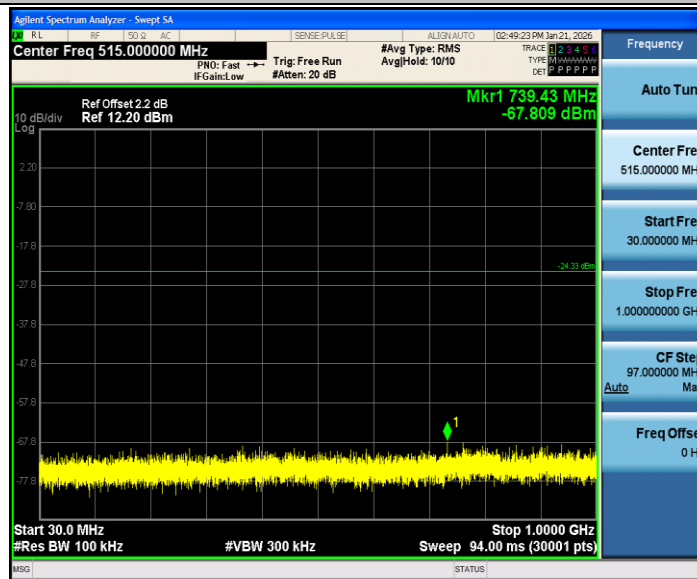
11B_Ant1_2462_1000~26500



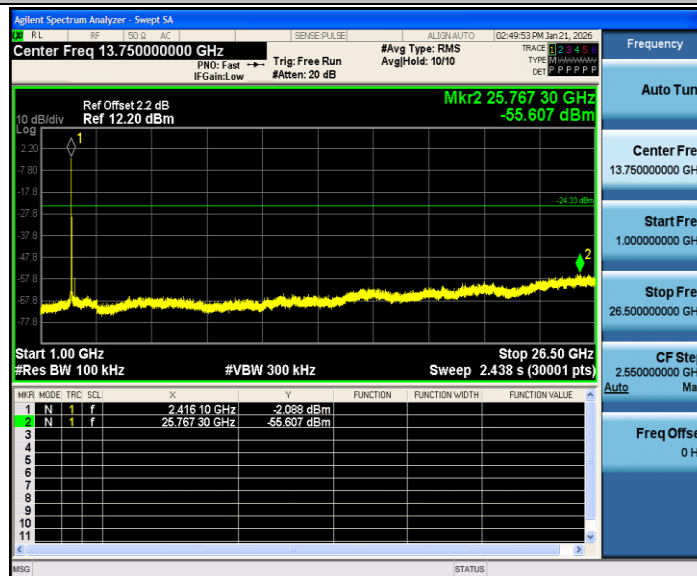
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



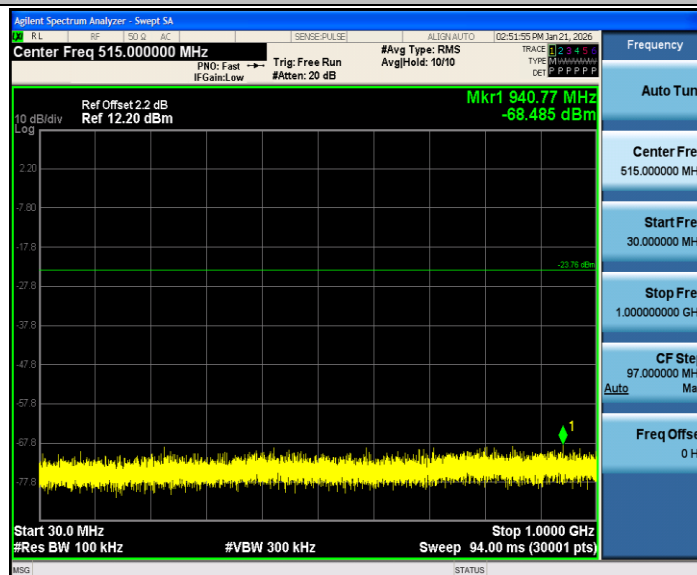
11G_Ant1_2412_1000~26500



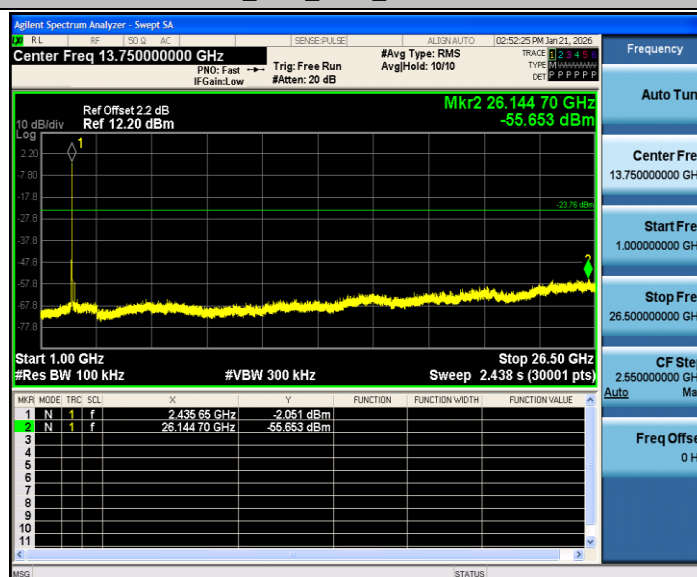
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



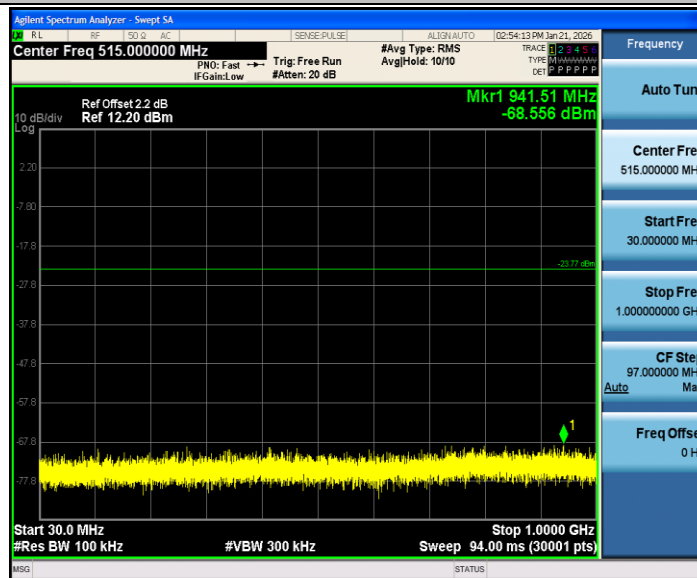
11G_Ant1_2437_1000~26500



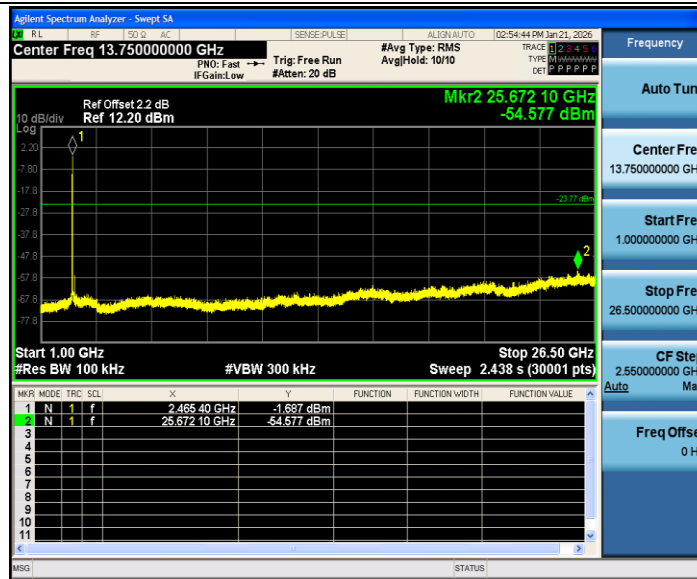
11G_Ant1_2462_0~Reference



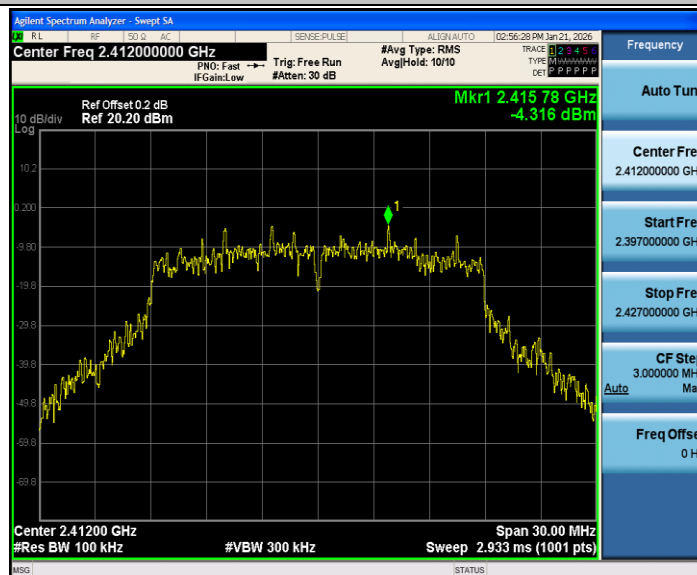
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

