

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BSRS-U6

Company : SIMFINITY COMPANY LIMITED

EUT : MIFI

Model Number : U6

Report No. : CTA25100901312

Reviewed By : Eric Wang

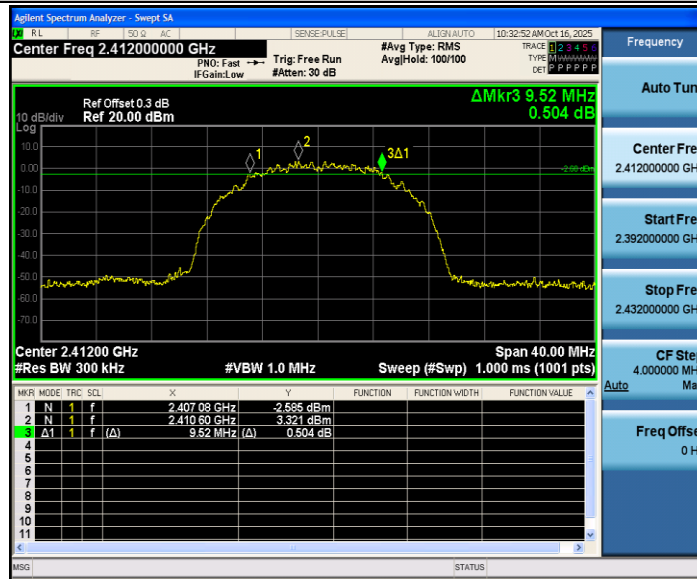
Appendix A: DTS Bandwidth

Test Result

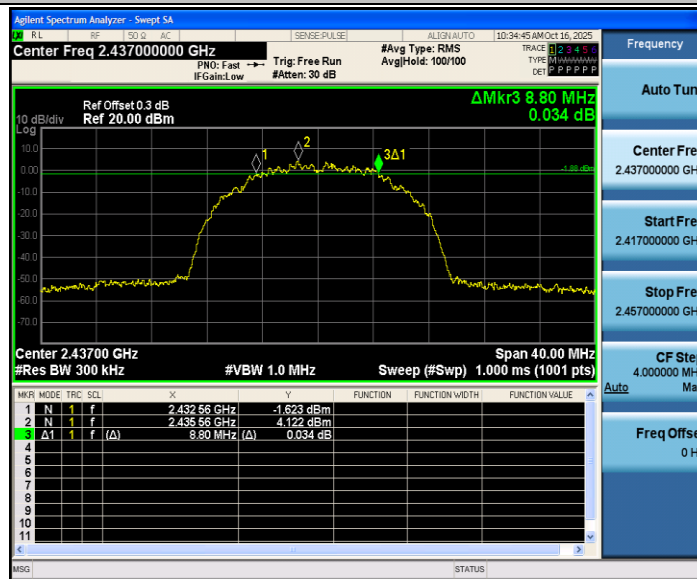
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.080	2416.600	0.5	PASS
		2437	8.800	2432.560	2441.360	0.5	PASS
		2462	8.880	2457.480	2466.360	0.5	PASS
11G	Ant1	2412	16.320	2403.920	2420.240	0.5	PASS
		2437	16.240	2428.960	2445.200	0.5	PASS
		2462	16.440	2453.840	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.520	2420.760	0.5	PASS
		2437	17.280	2428.440	2445.720	0.5	PASS
		2462	17.320	2453.400	2470.720	0.5	PASS
11N40SISO	Ant1	2422	33.520	2405.600	2439.120	0.5	PASS
		2437	33.680	2420.440	2454.120	0.5	PASS
		2452	34.080	2435.120	2469.200	0.5	PASS
11AX20SISO	Ant1	2412	17.160	2403.520	2420.680	0.5	PASS
		2437	17.320	2428.440	2445.760	0.5	PASS
		2462	17.200	2453.400	2470.600	0.5	PASS
11AX40SISO	Ant1	2422	33.840	2405.520	2439.360	0.5	PASS
		2437	33.520	2420.360	2453.880	0.5	PASS
		2452	33.920	2435.280	2469.200	0.5	PASS

Test Graphs

11B_Ant1_2412



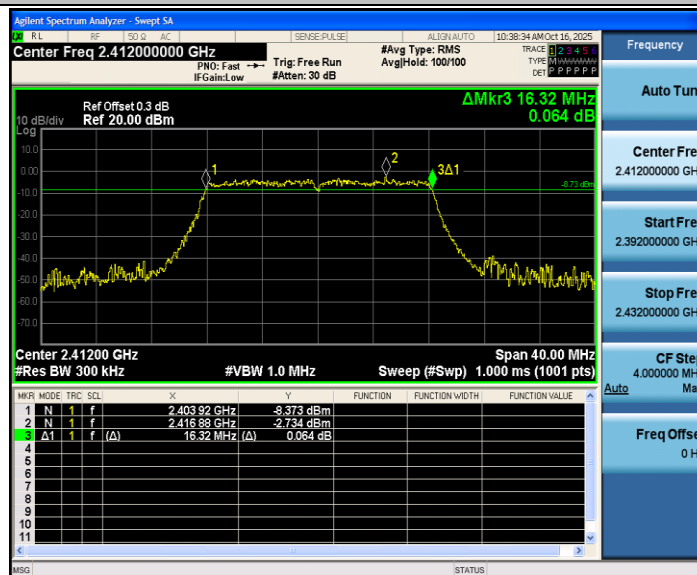
11B_Ant1_2437



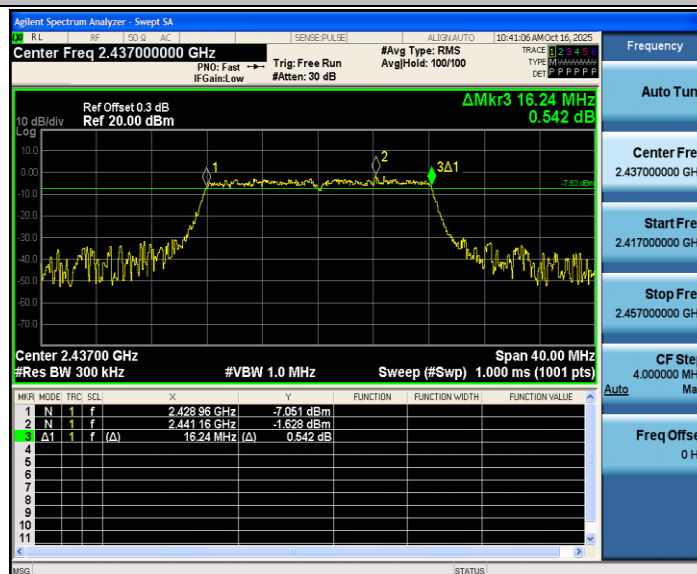
11B_Ant1_2462

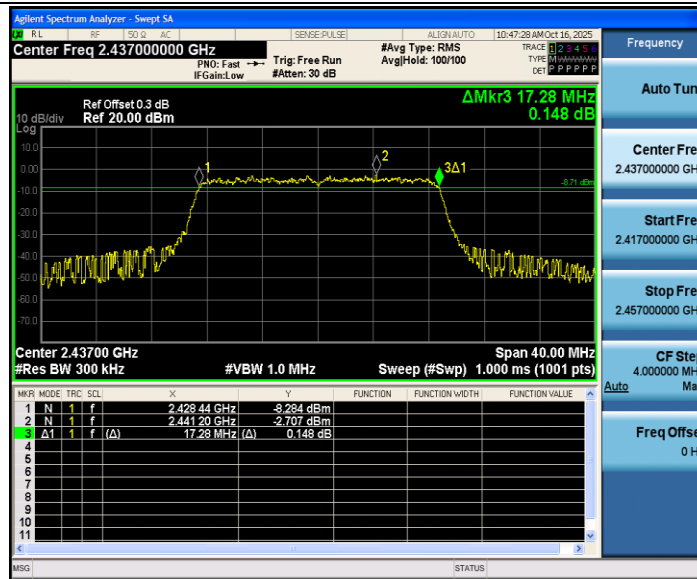


11G_Ant1_2412



11G_Ant1_2437

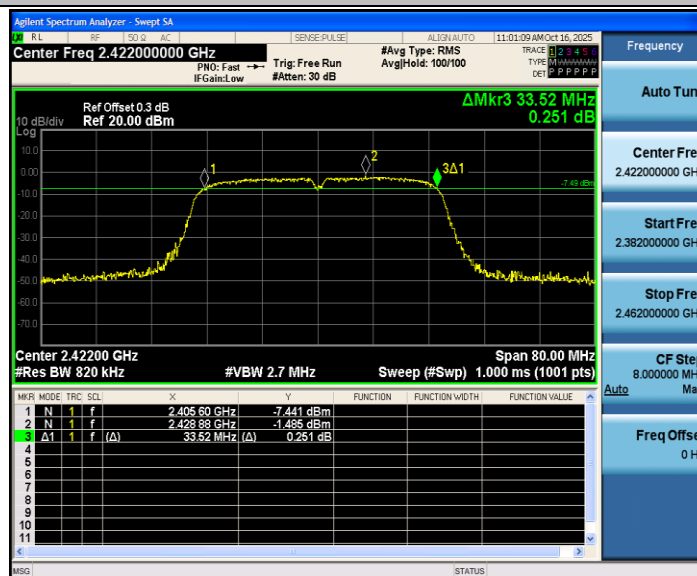




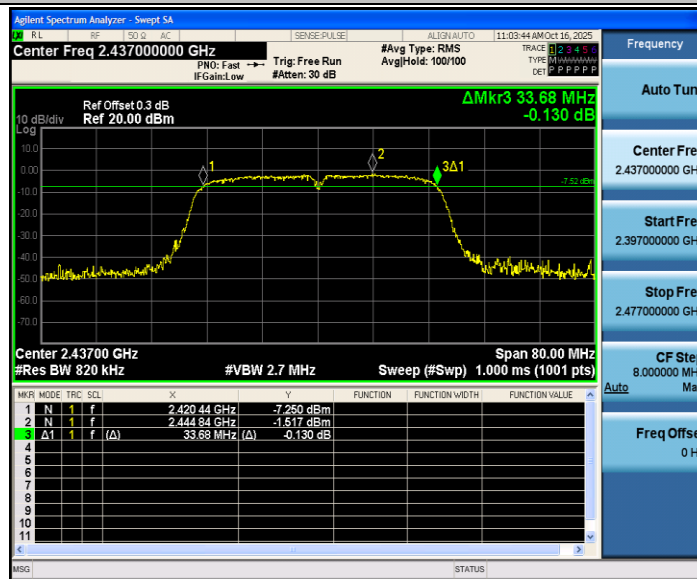
11N20SISO_Ant1_2462



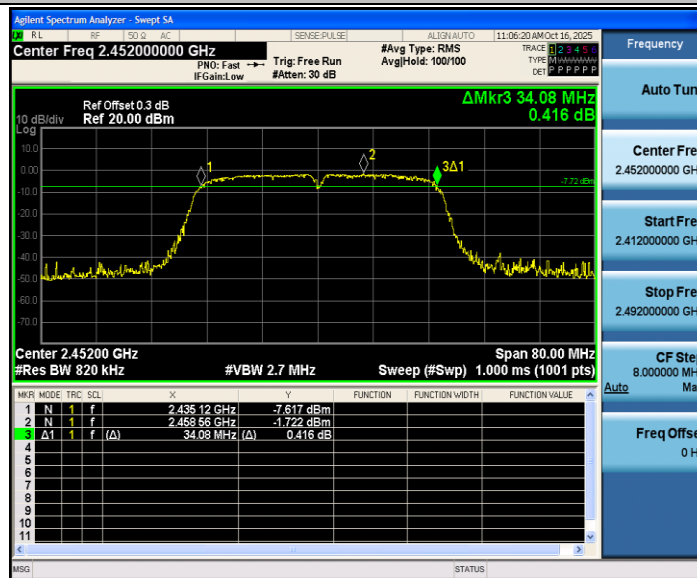
11N40SISO_Ant1_2422



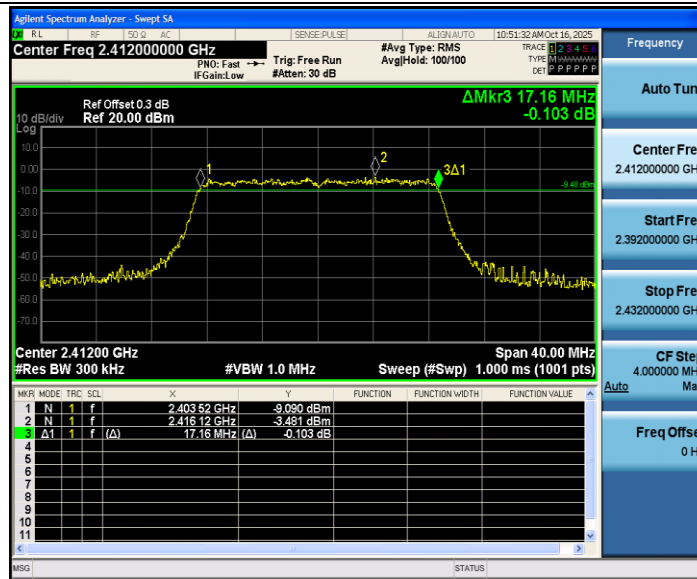
11N40SISO_Ant1_2437



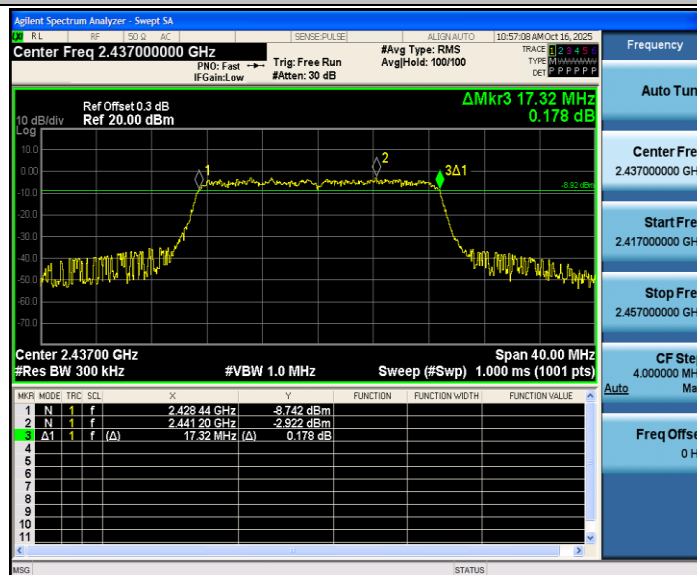
11N40SISO_Ant1_2452



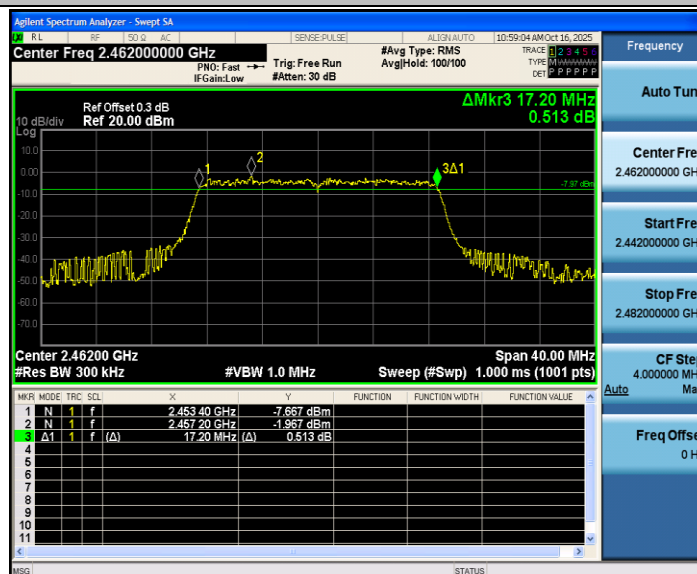
11AX20SISO_Ant1_2412



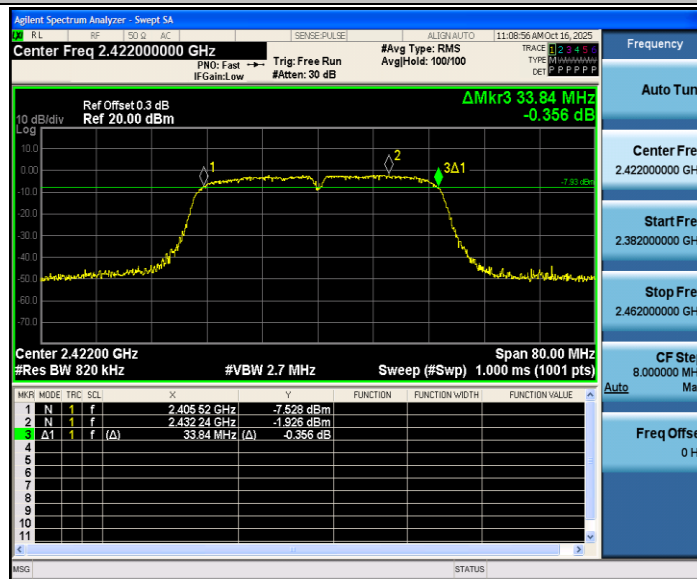
11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



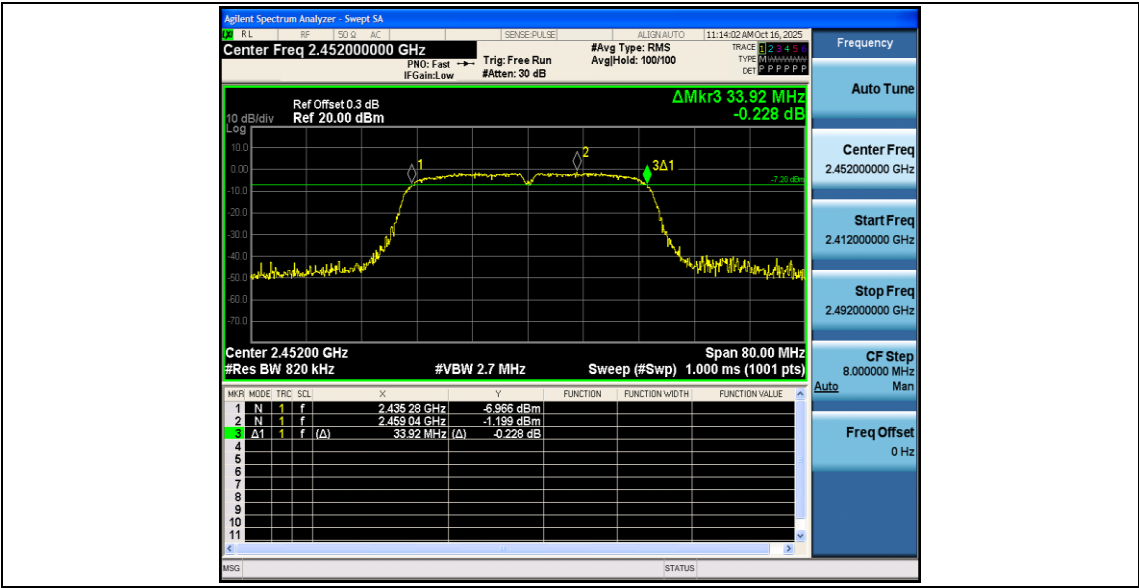
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



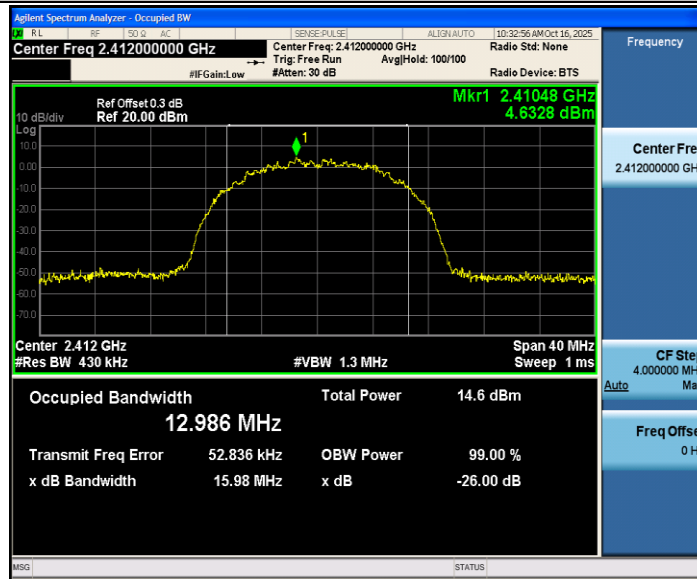
Appendix B: Occupied Channel Bandwidth

Test Result

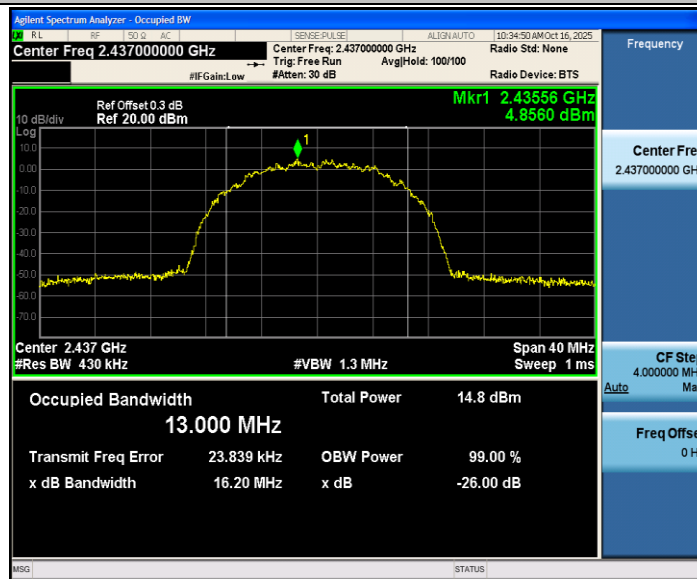
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.986	2405.5598	2418.5458	---	---
		2437	13.000	2430.5238	2443.5238	---	---
		2462	13.067	2455.4651	2468.5321	---	---
11G	Ant1	2412	16.553	2403.7889	2420.3419	---	---
		2437	16.625	2428.7167	2445.3417	---	---
		2462	16.640	2453.7077	2470.3477	---	---
11N20SISO	Ant1	2412	17.465	2403.3250	2420.7900	---	---
		2437	17.457	2428.3149	2445.7719	---	---
		2462	17.429	2453.3216	2470.7506	---	---
11N40SISO	Ant1	2422	34.830	2404.8034	2439.6334	---	---
		2437	34.836	2419.7617	2454.5977	---	---
		2452	34.717	2434.7987	2469.5157	---	---
11AX20SISO	Ant1	2412	17.467	2403.3269	2420.7939	---	---
		2437	17.467	2428.3031	2445.7701	---	---
		2462	17.459	2453.3041	2470.7631	---	---
11AX40SISO	Ant1	2422	34.829	2404.8014	2439.6304	---	---
		2437	34.720	2419.8130	2454.5330	---	---
		2452	34.800	2434.7333	2469.5333	---	---

Test Graphs

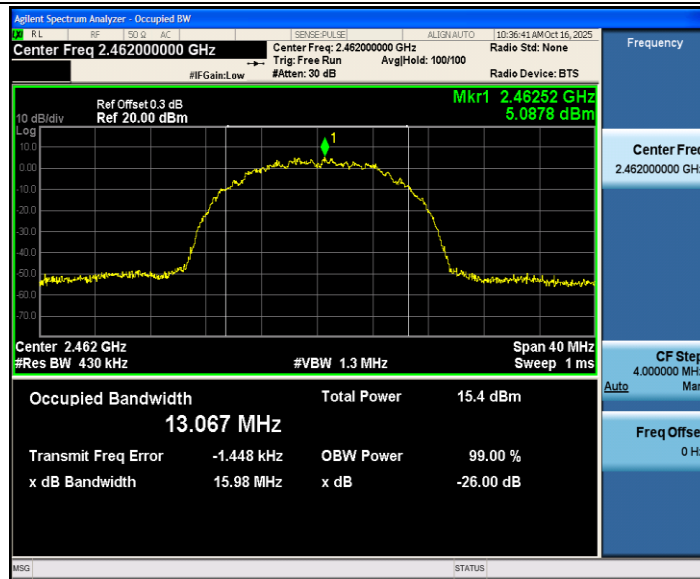
11B_Ant1_2412



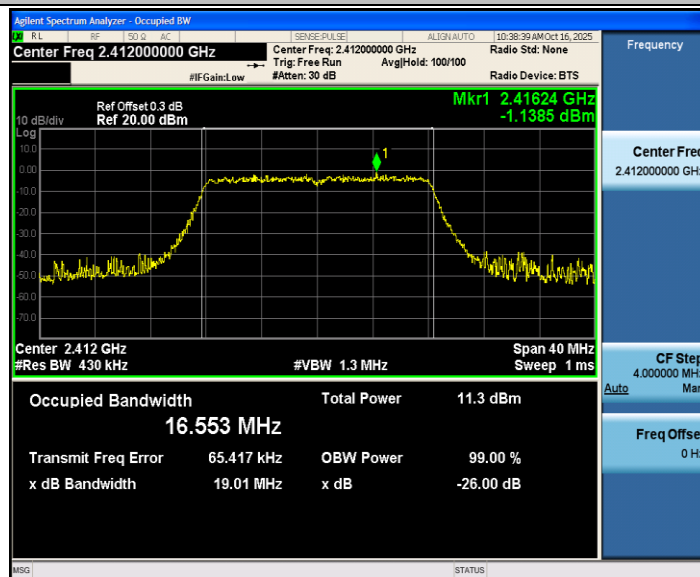
11B_Ant1_2437



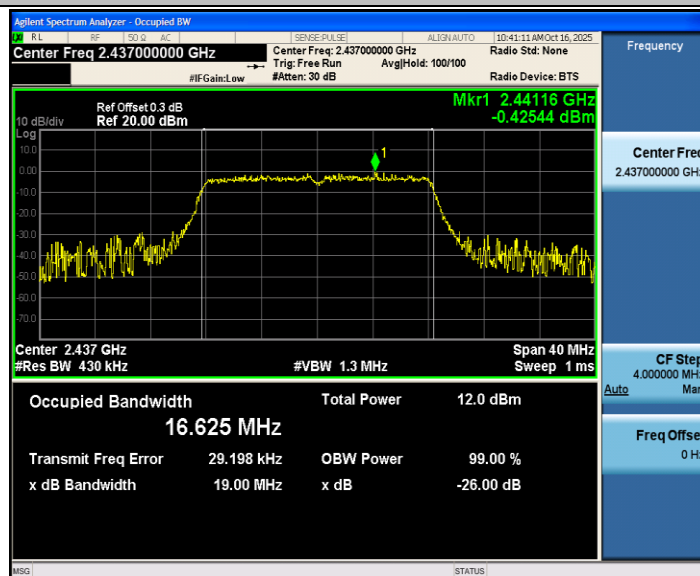
11B_Ant1_2462



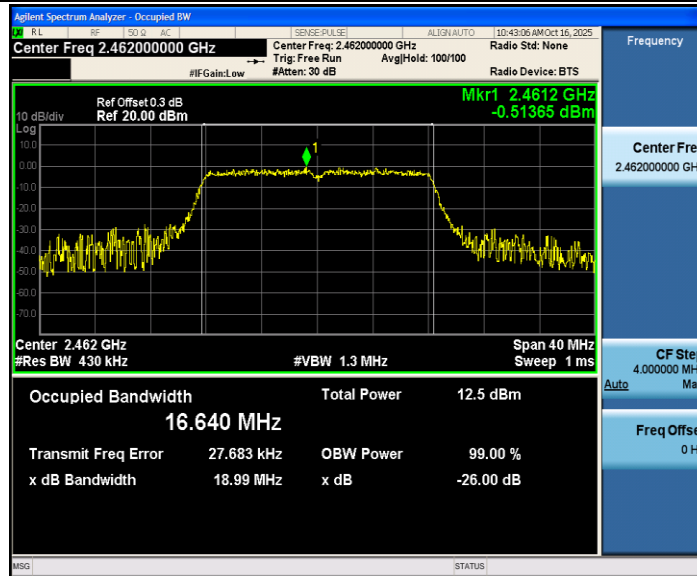
11G_Ant1_2412



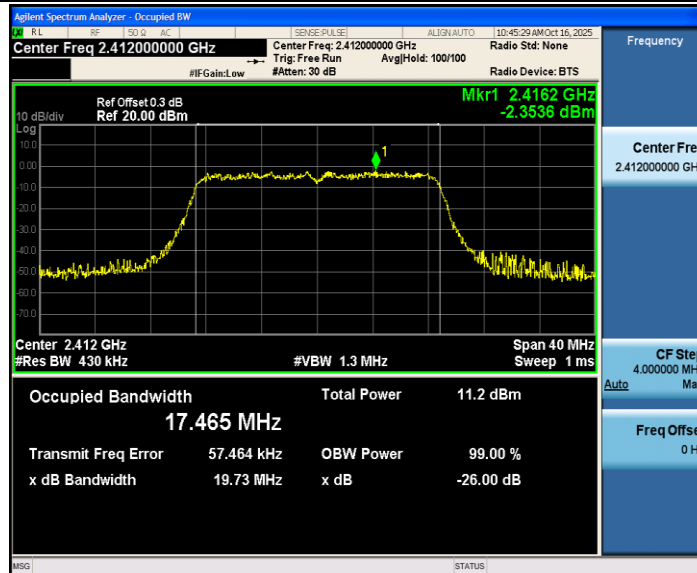
11G_Ant1_2437



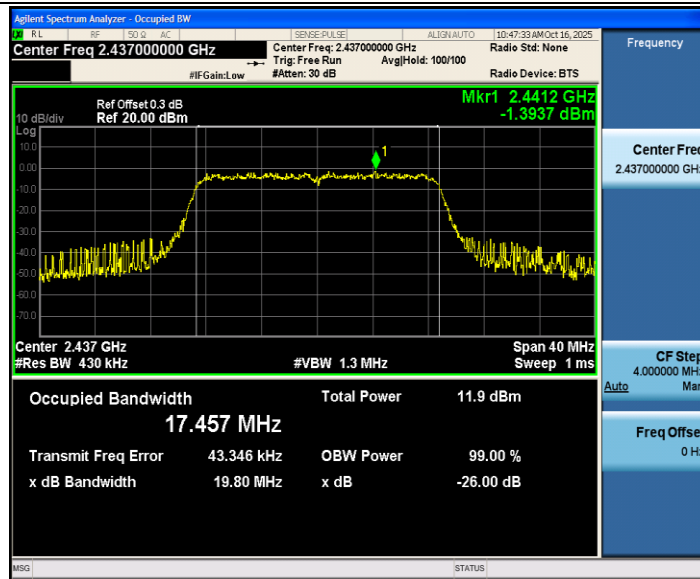
11G_Ant1_2462



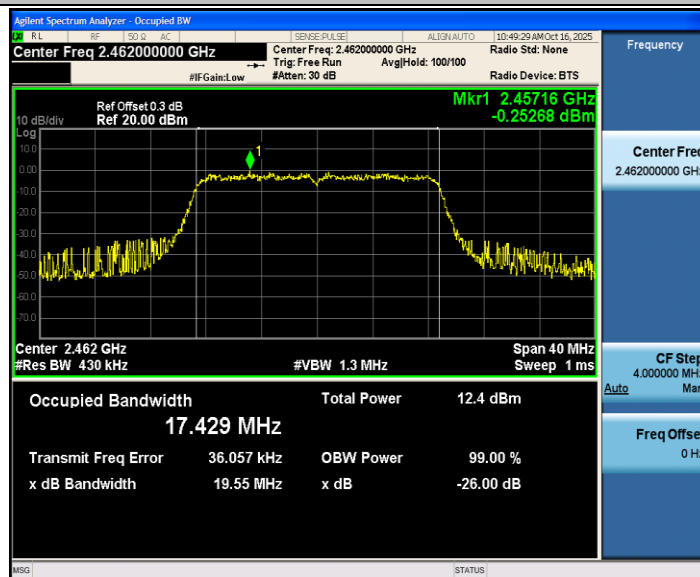
11N20SISO_Ant1_2412



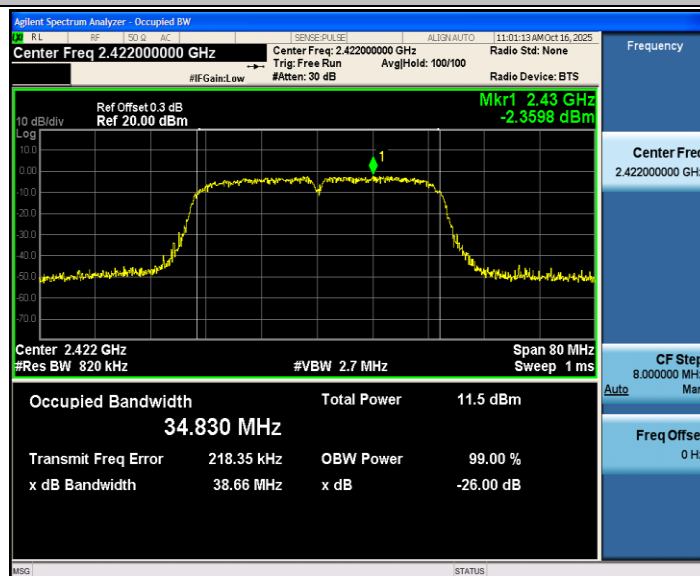
11N20SISO_Ant1_2437



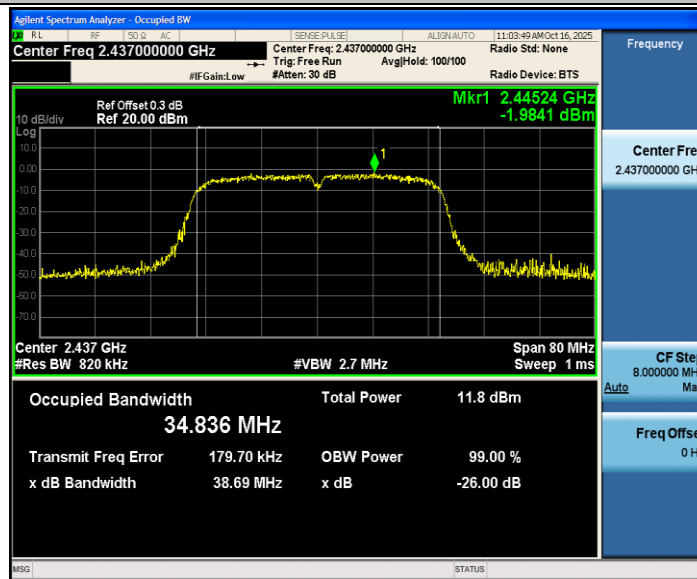
11N20SISO_Ant1_2462



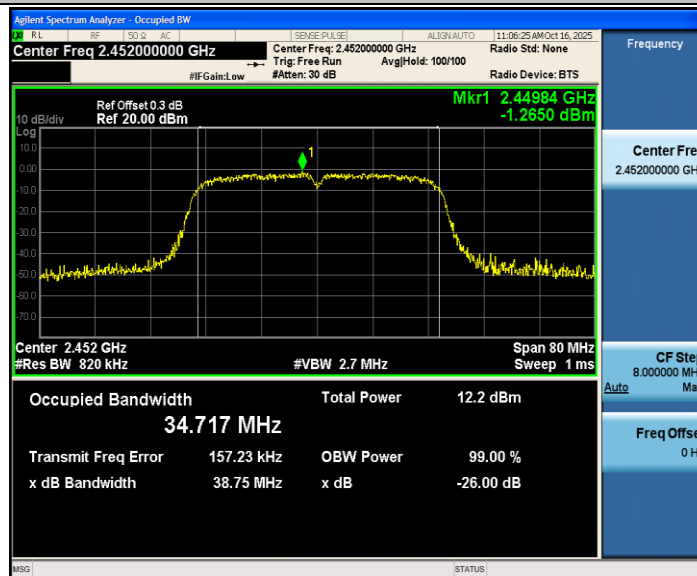
11N40SISO_Ant1_2422



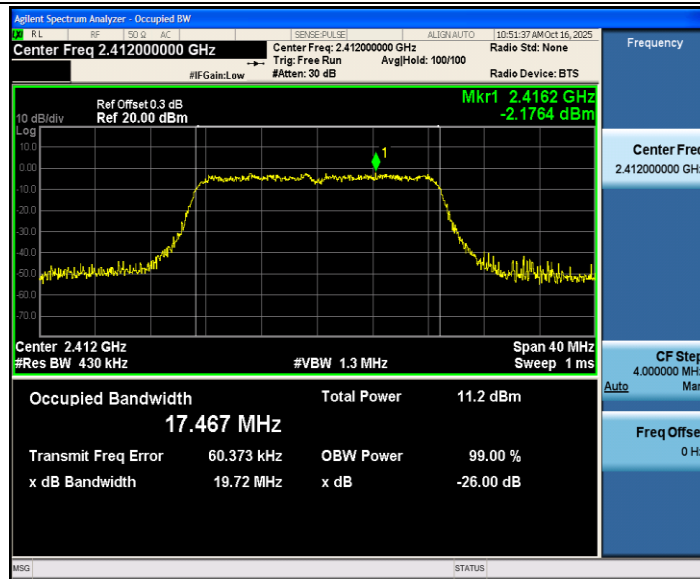
11N40SISO_Ant1_2437



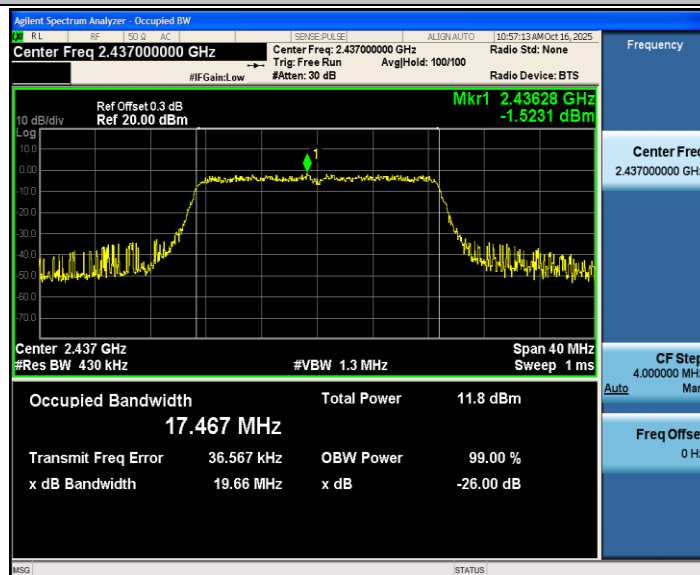
11N40SISO_Ant1_2452



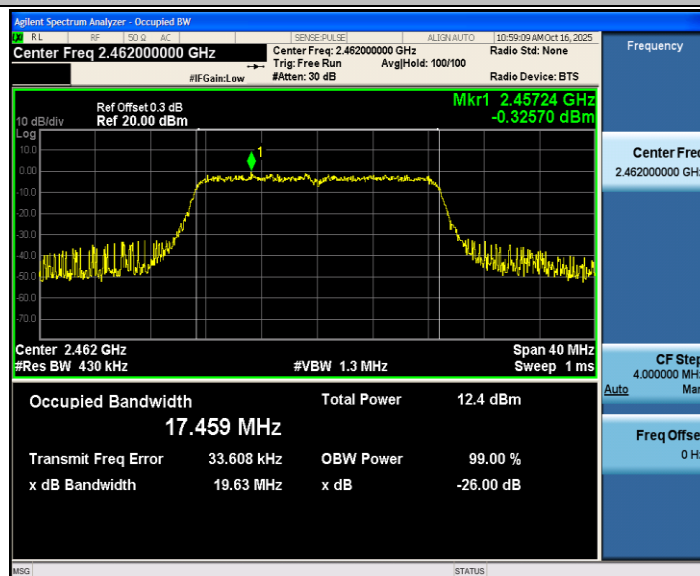
11AX20SISO_Ant1_2412



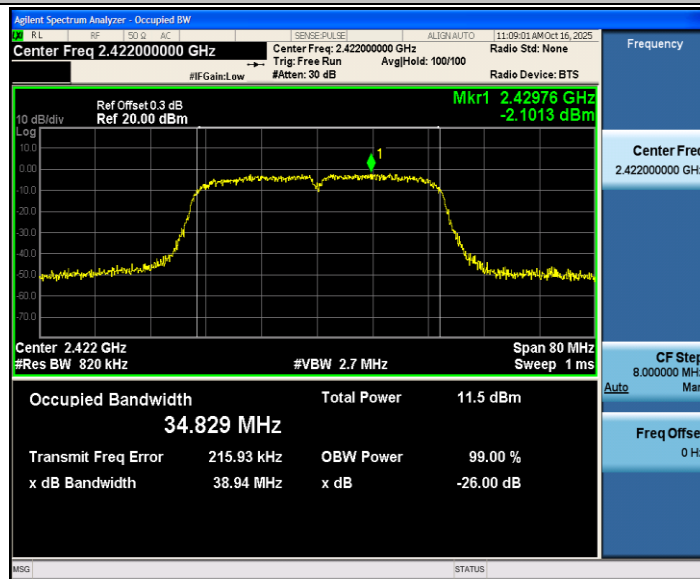
11AX20SISO_Ant1_2437



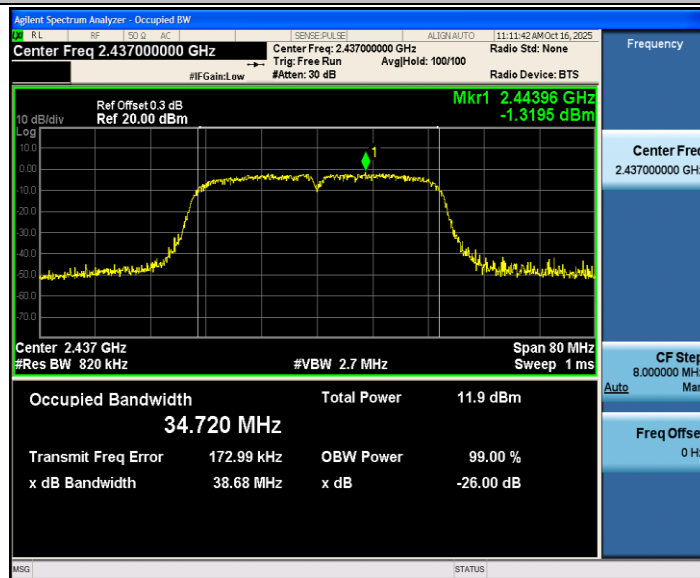
11AX20SISO_Ant1_2462



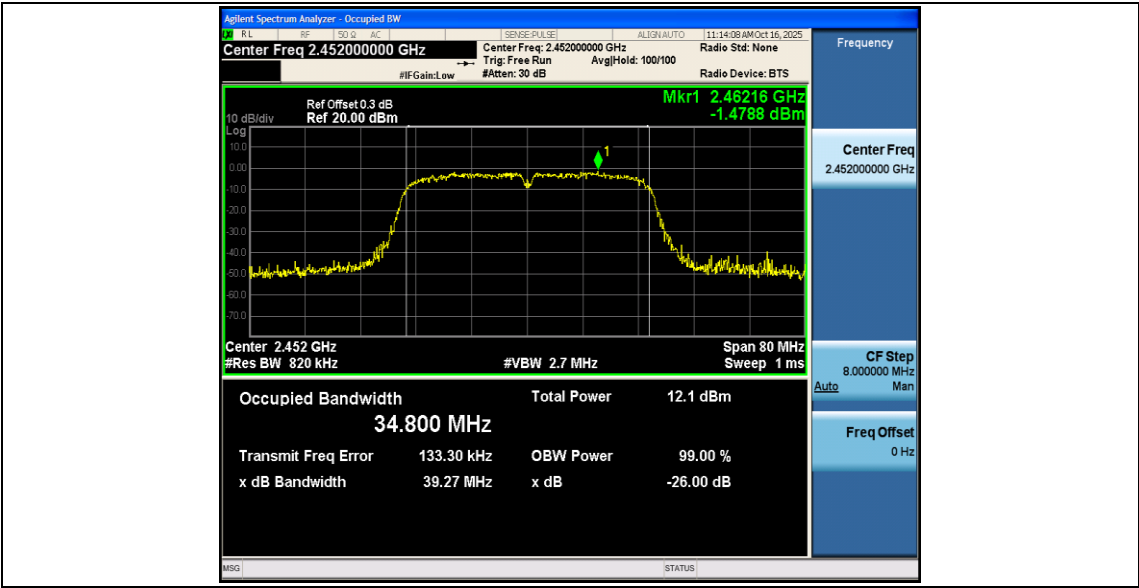
11AX40SISO_Ant1_2422



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	14.19	≤30.00	PASS
		2437	14.20	≤30.00	PASS
		2462	14.77	≤30.00	PASS
11G	Ant1	2412	12.18	≤30.00	PASS
		2437	12.91	≤30.00	PASS
		2462	13.39	≤30.00	PASS
11N20SISO	Ant1	2412	12.25	≤30.00	PASS
		2437	13.18	≤30.00	PASS
		2462	13.64	≤30.00	PASS
11N40SISO	Ant1	2422	11.70	≤30.00	PASS
		2437	11.95	≤30.00	PASS
		2452	12.52	≤30.00	PASS
11AX20SISO	Ant1	2412	12.33	≤30.00	PASS
		2437	13.10	≤30.00	PASS
		2462	13.55	≤30.00	PASS
11AX40SISO	Ant1	2422	11.78	≤30.00	PASS
		2437	11.97	≤30.00	PASS
		2452	12.40	≤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	-15.44	≤8.00	PASS
		2437	-14.68	≤8.00	PASS
		2462	-13.95	≤8.00	PASS
11G	Ant1	2412	-22.26	≤8.00	PASS
		2437	-21.51	≤8.00	PASS
		2462	-21.18	≤8.00	PASS
11N20SISO	Ant1	2412	-22.18	≤8.00	PASS
		2437	-20.97	≤8.00	PASS
		2462	-20.66	≤8.00	PASS
11N40SISO	Ant1	2422	-23.87	≤8.00	PASS
		2437	-22.37	≤8.00	PASS
		2452	-22.09	≤8.00	PASS
11AX20SISO	Ant1	2412	-21.86	≤8.00	PASS
		2437	-21.33	≤8.00	PASS
		2462	-20.67	≤8.00	PASS
11AX40SISO	Ant1	2422	-24.02	≤8.00	PASS
		2437	-23.07	≤8.00	PASS
		2452	-22.99	≤8.00	PASS

Test Graphs

11B_Ant1_2412



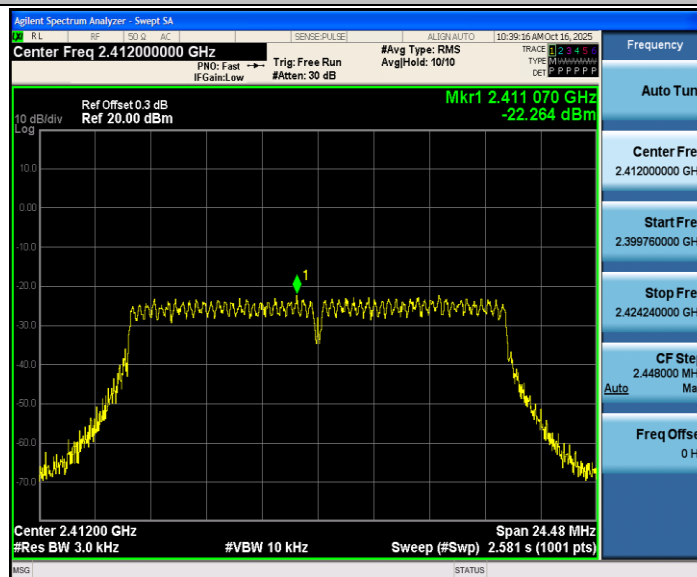
11B_Ant1_2437



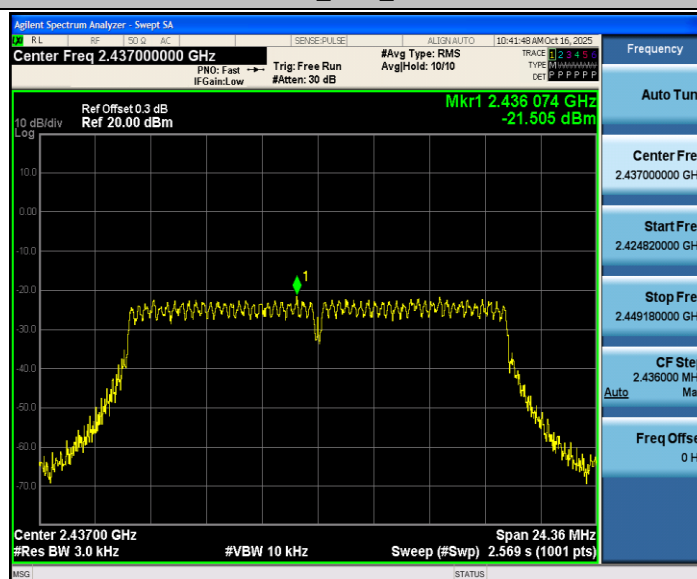
11B_Ant1_2462



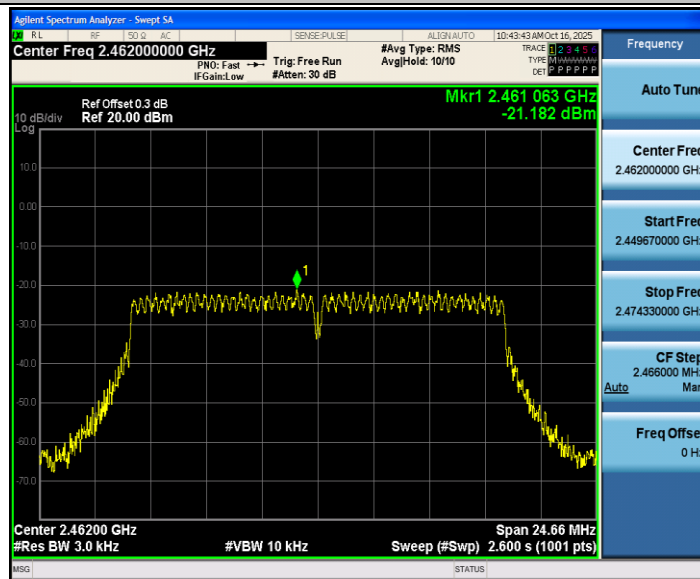
11G_Ant1_2412



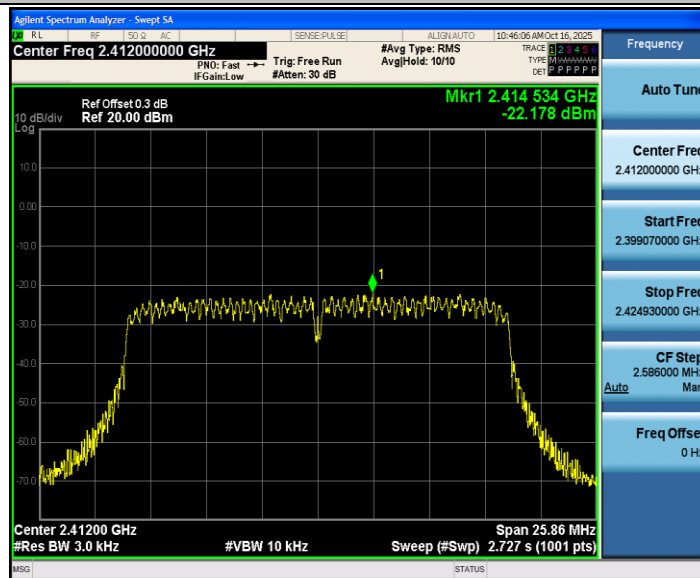
11G_Ant1_2437



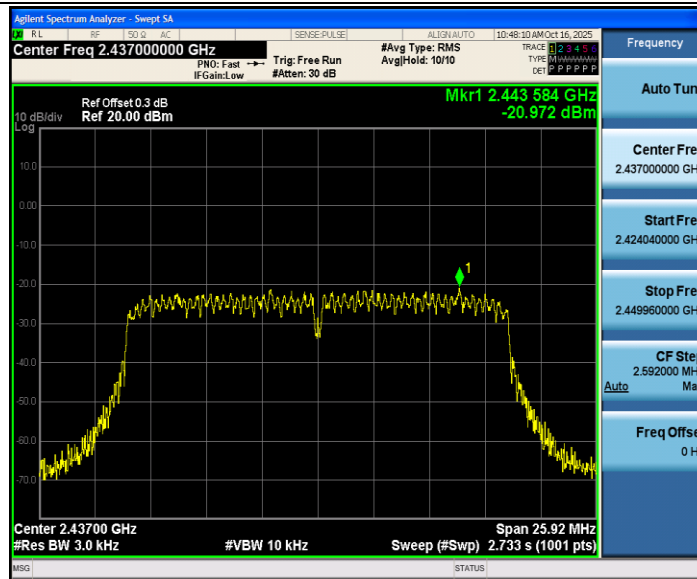
11G_Ant1_2462



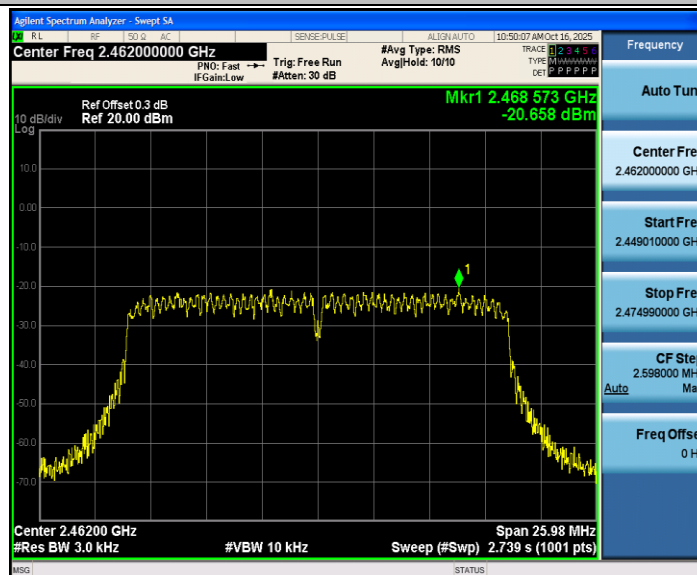
11N20SISO_Ant1_2412



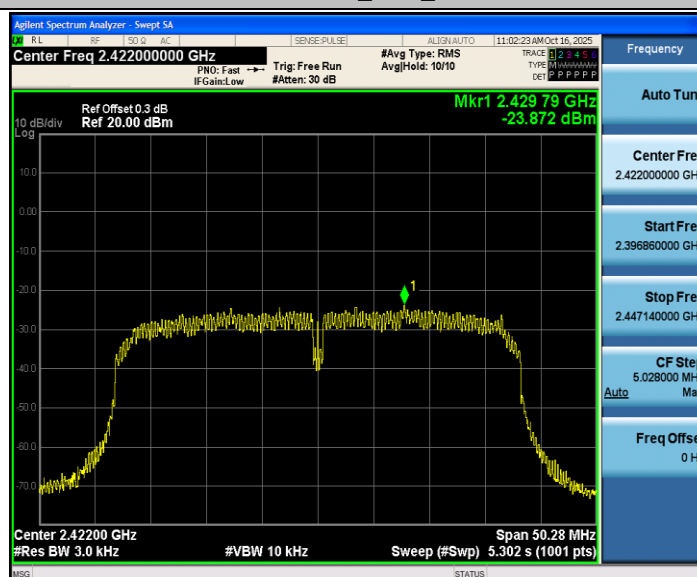
11N20SISO_Ant1_2437



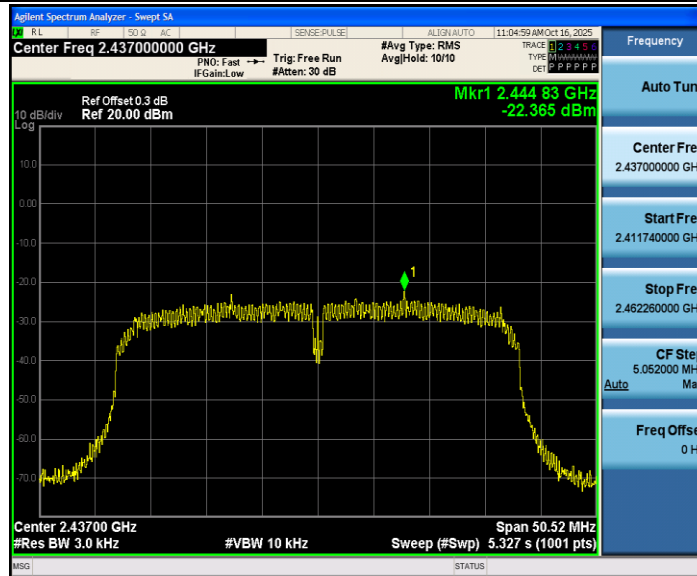
11N20SISO_Ant1_2462



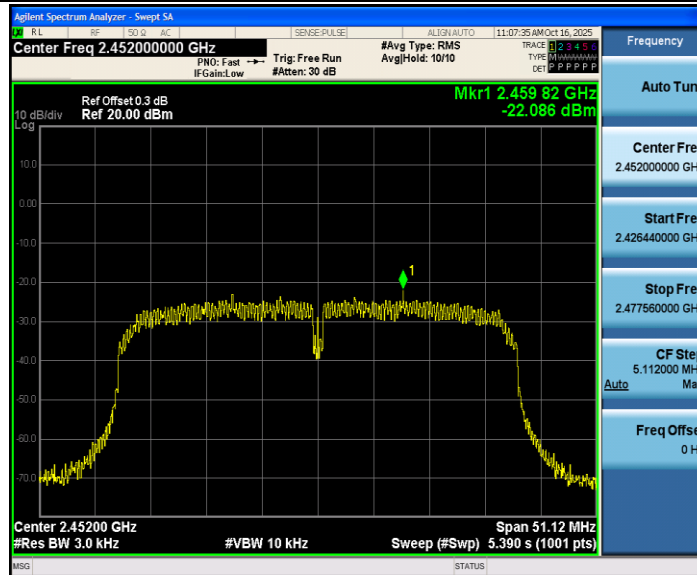
11N40SISO_Ant1_2422



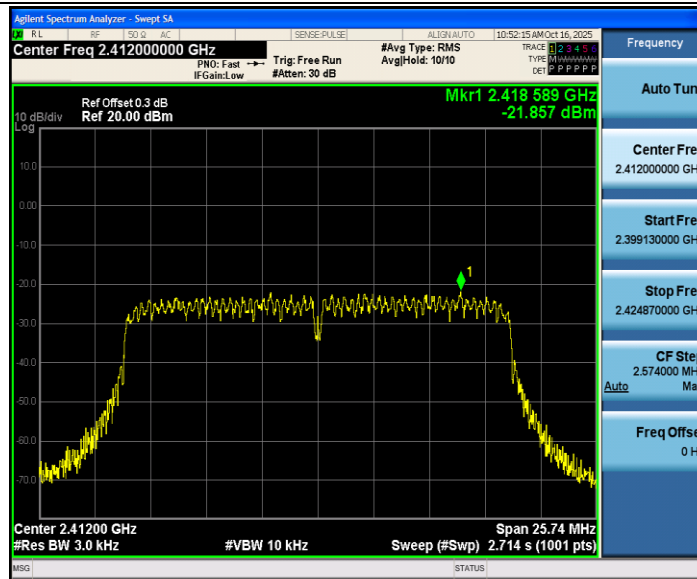
11N40SISO_Ant1_2437



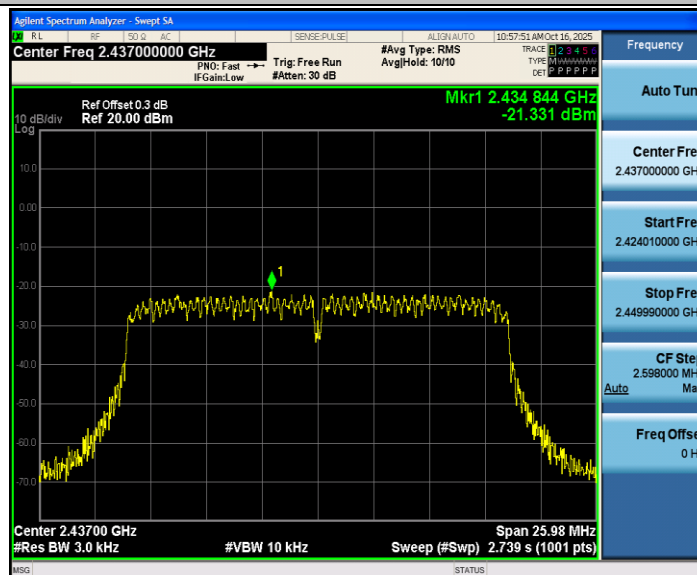
11N40SISO_Ant1_2452



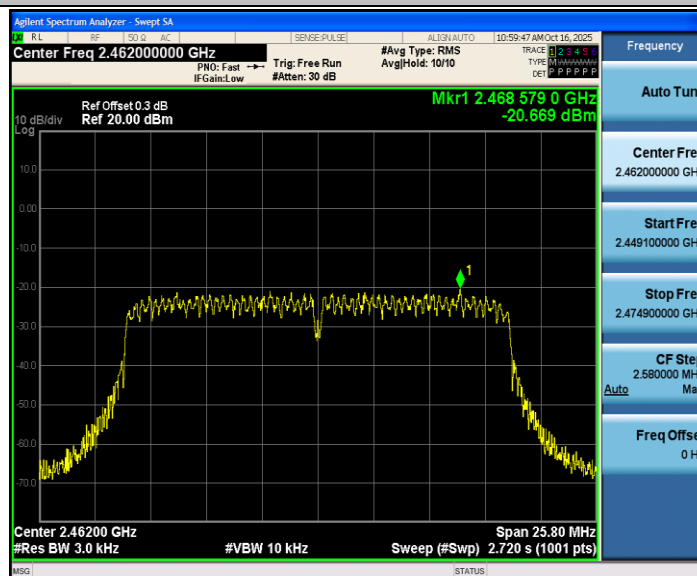
11AX20SISO_Ant1_2412



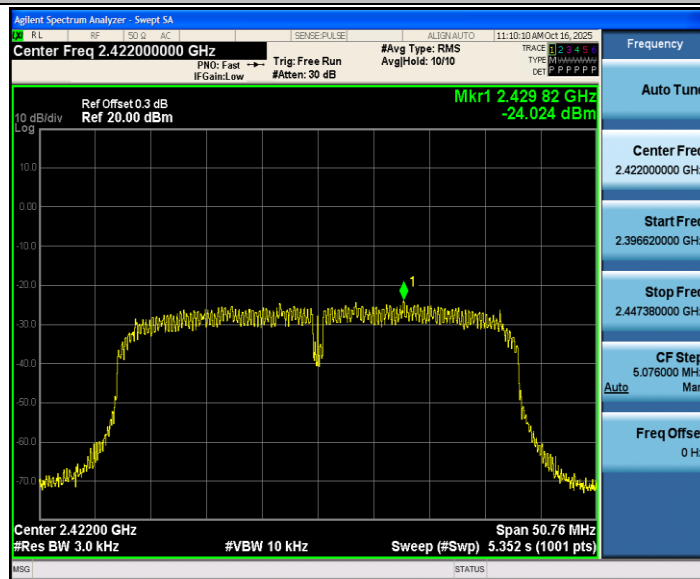
11AX20SISO_Ant1_2437



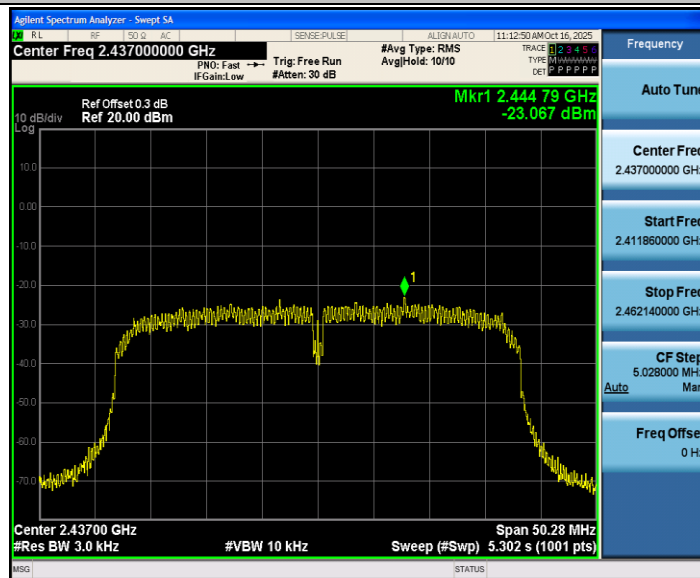
11AX20SISO_Ant1_2462



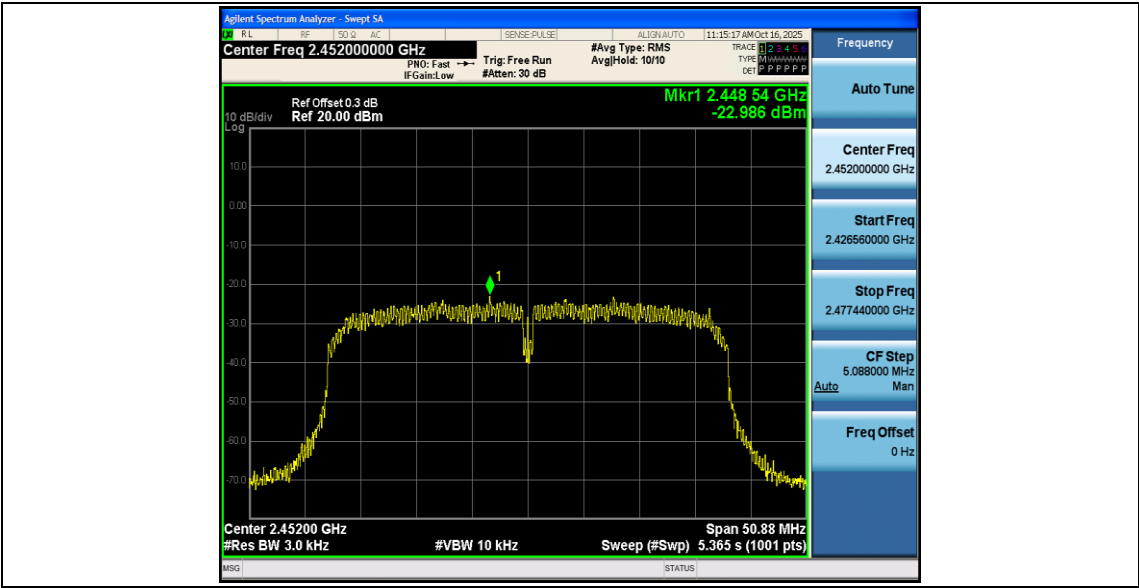
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



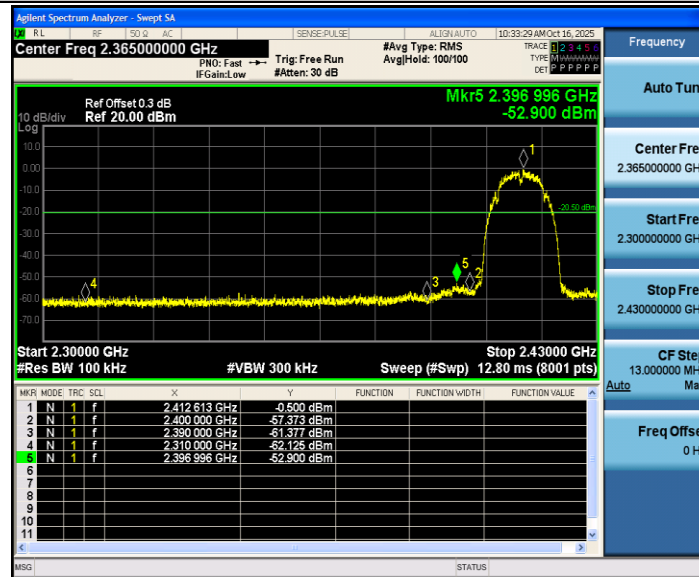
Appendix E: Band edge measurements

Test Result

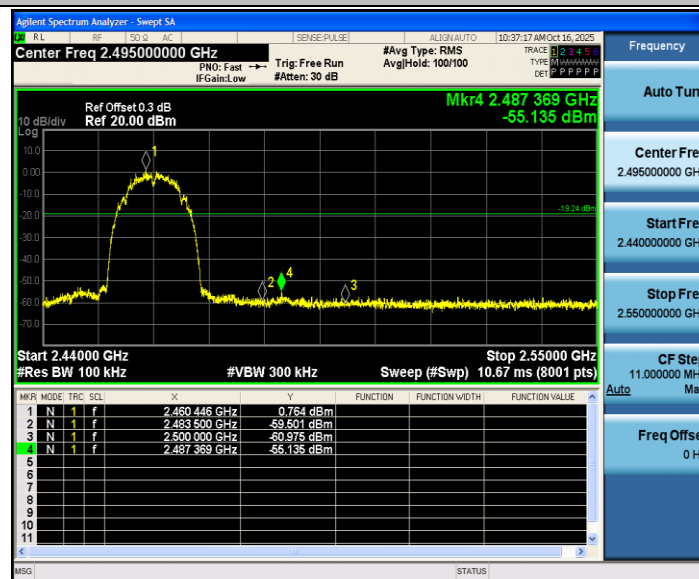
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.50	-52.9	≤-20.5	PASS
		High	2462	0.76	-55.14	≤-19.24	PASS
11G	Ant1	Low	2412	-8.36	-48.18	≤-28.36	PASS
		High	2462	-6.98	-49.2	≤-26.98	PASS
11N20SISO	Ant1	Low	2412	-8.34	-50.63	≤-28.34	PASS
		High	2462	-7.43	-53.13	≤-27.43	PASS
11N40SISO	Ant1	Low	2422	-11.13	-51.81	≤-31.13	PASS
		High	2452	-10.38	-53.33	≤-30.38	PASS
11AX20SISO	Ant1	Low	2412	-8.78	-50.56	≤-28.78	PASS
		High	2462	-6.82	-53.96	≤-26.82	PASS
11AX40SISO	Ant1	Low	2422	-11.56	-51.08	≤-31.56	PASS
		High	2452	-10.91	-53.68	≤-30.91	PASS

Test Graphs

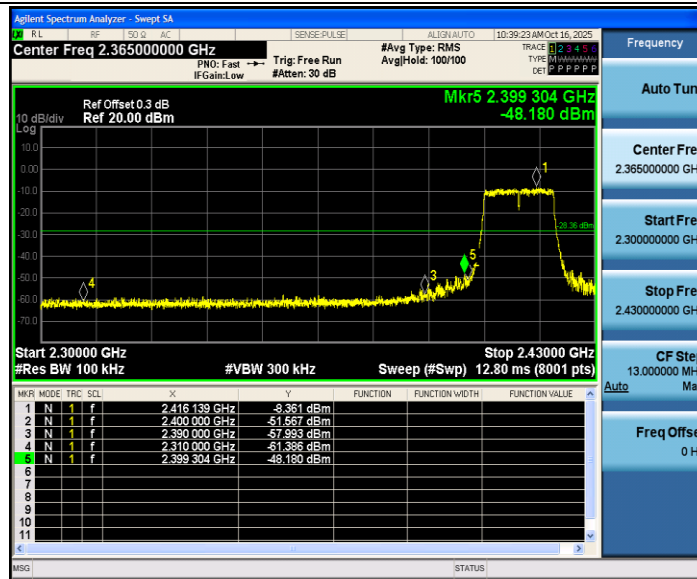
11B_Ant1_Low_2412



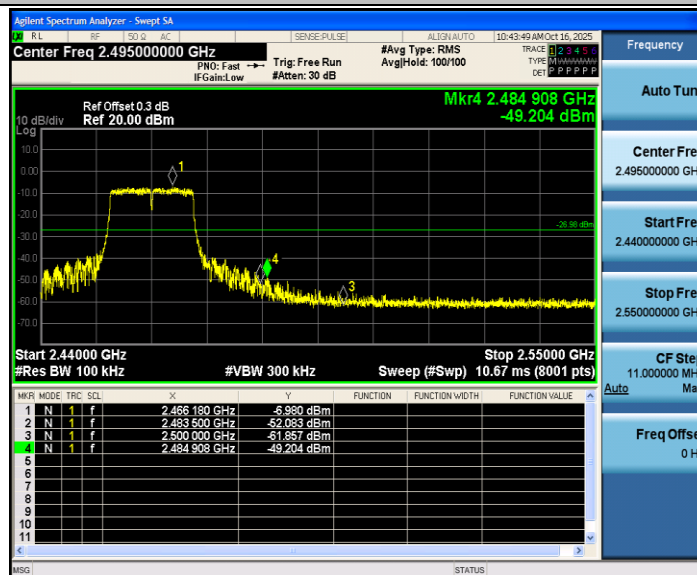
11B_Ant1_High_2462



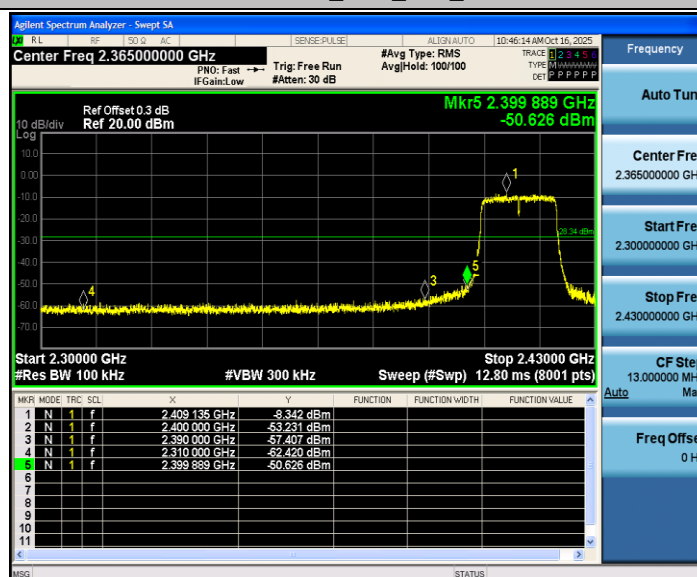
11G_Ant1_Low_2412



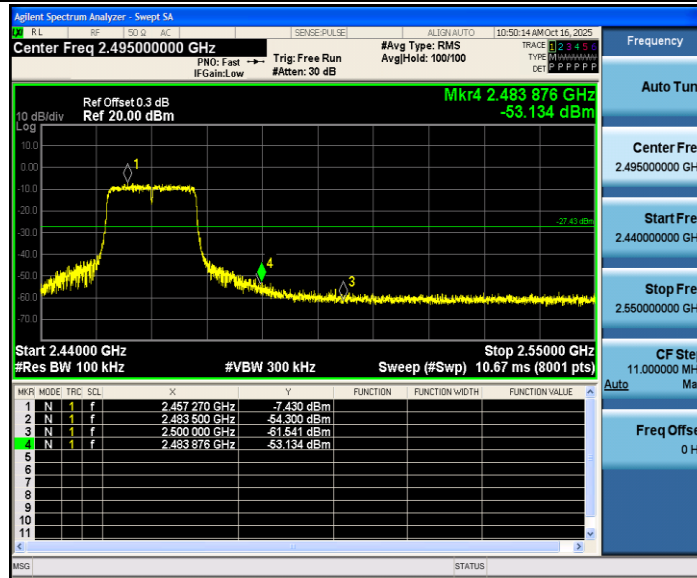
11G_Ant1_High_2462



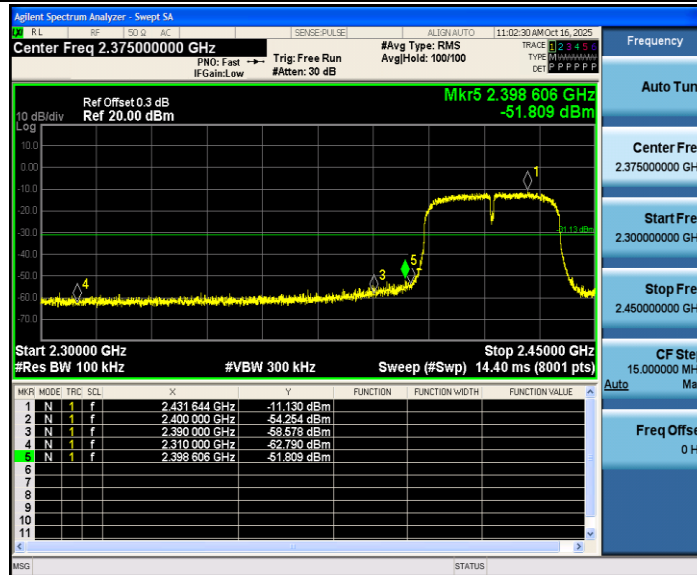
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452