

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BN53-AIMB-S1

Company : Shenzhen Huaxinchen Technology Co., Ltd

EUT : AI Smart Glasses With Wi Fi Camera

Model Number : AiMB-S1

Report No. : CTA25120400502

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

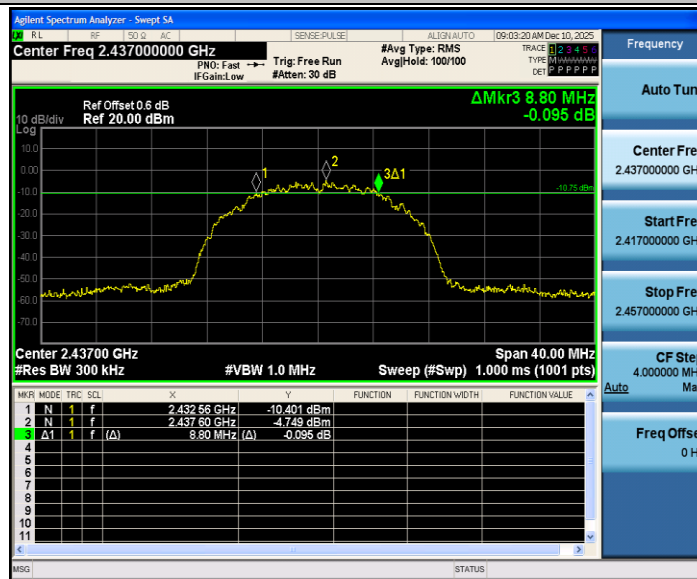
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.280	2408.080	2416.360	0.5	PASS
		2437	8.800	2432.560	2441.360	0.5	PASS
		2462	8.320	2458.040	2466.360	0.5	PASS
11G	Ant1	2412	16.320	2403.920	2420.240	0.5	PASS
		2437	16.280	2428.920	2445.200	0.5	PASS
		2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.280	2403.440	2420.720	0.5	PASS
		2437	17.200	2428.400	2445.600	0.5	PASS
		2462	17.320	2453.400	2470.720	0.5	PASS
11N40SISO	Ant1	2422	34.240	2405.120	2439.360	0.5	PASS
		2437	33.520	2420.440	2453.960	0.5	PASS
		2452	34.000	2435.120	2469.120	0.5	PASS
11AX20SISO	Ant1	2412	17.280	2403.440	2420.720	0.5	PASS
		2437	17.240	2428.440	2445.680	0.5	PASS
		2462	17.360	2453.360	2470.720	0.5	PASS
11AX40SISO	Ant1	2422	33.920	2405.280	2439.200	0.5	PASS
		2437	33.760	2420.280	2454.040	0.5	PASS
		2452	34.080	2435.120	2469.200	0.5	PASS

Test Graphs

11B_Ant1_2412



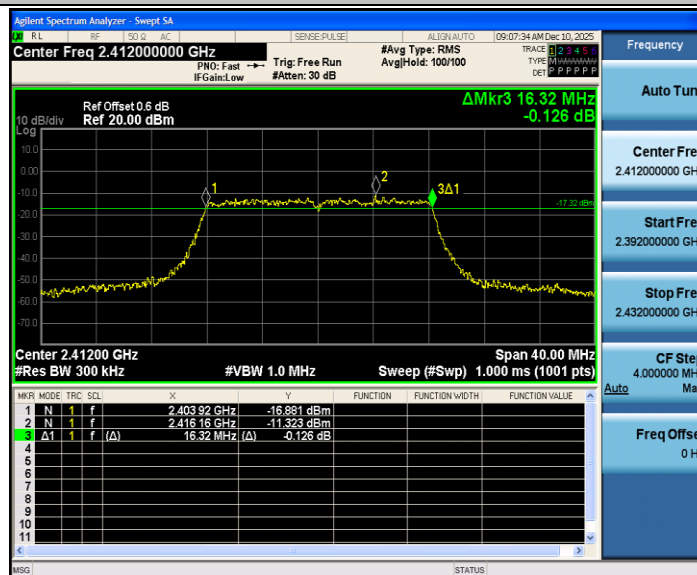
11B_Ant1_2437



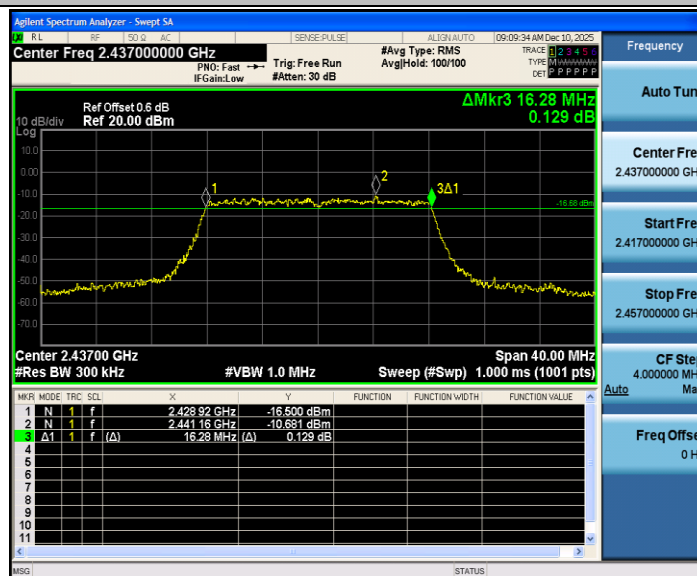
11B_Ant1_2462



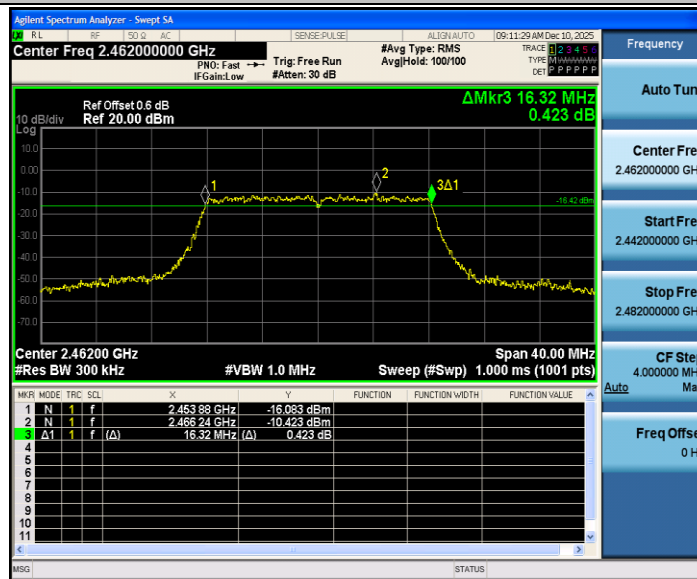
11G_Ant1_2412



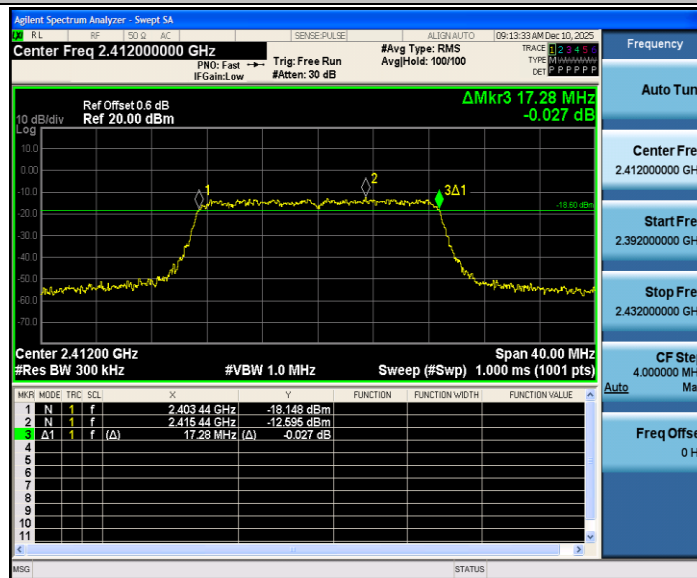
11G_Ant1_2437



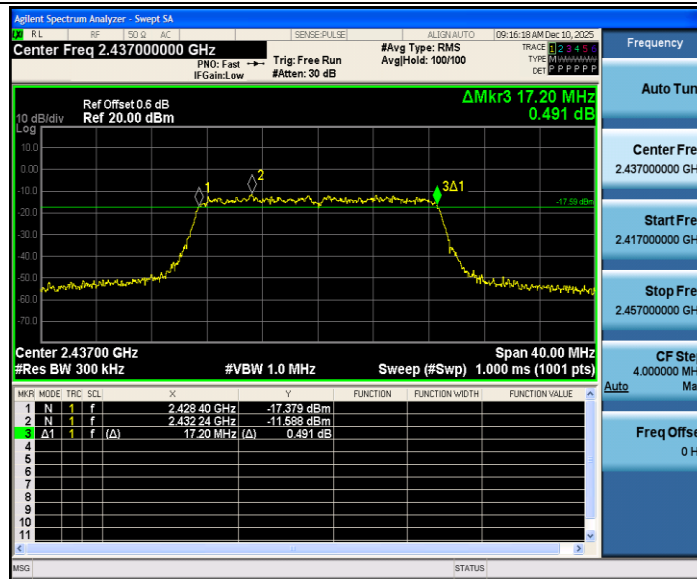
11G_Ant1_2462



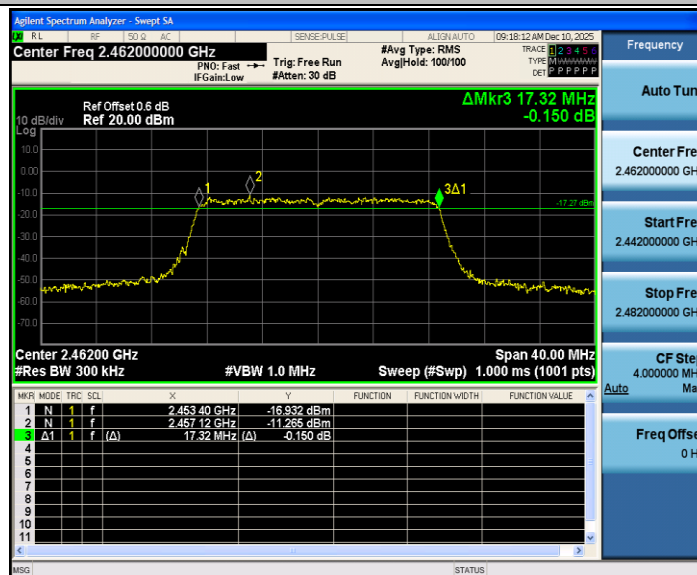
11N20SISO_Ant1_2412



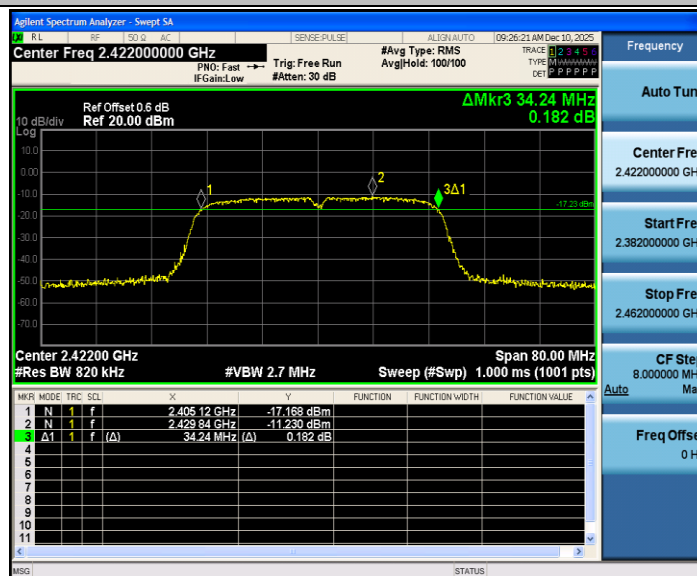
11N20SISO_Ant1_2437



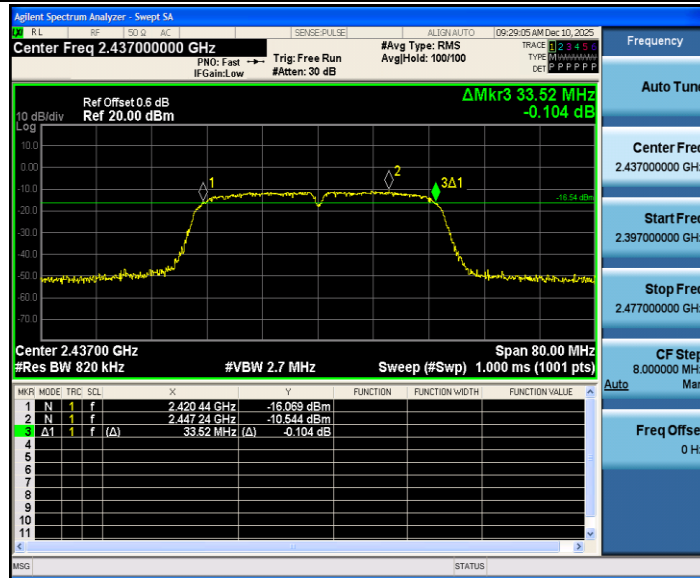
11N20SISO_Ant1_2462



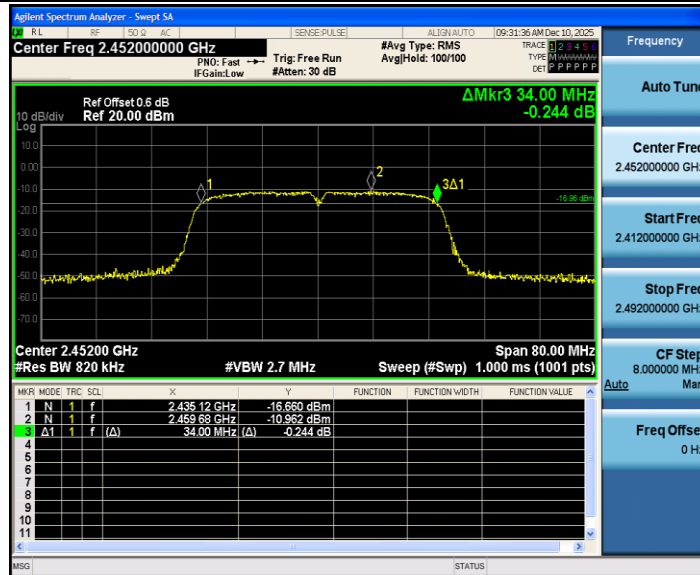
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



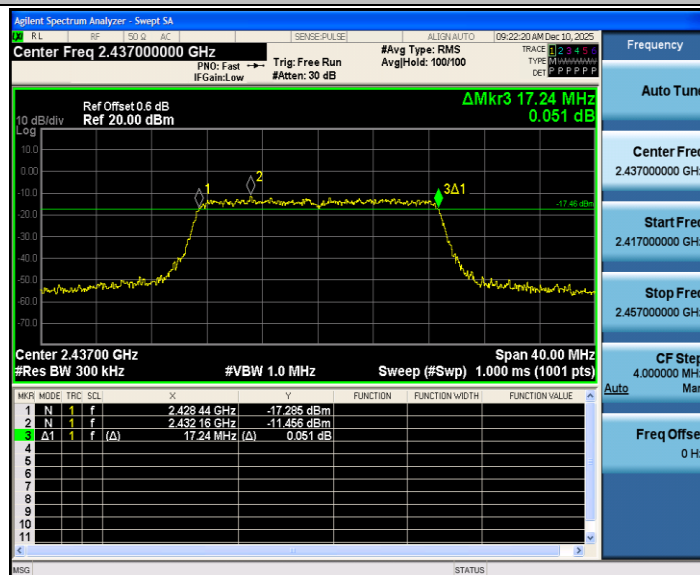
11N40SISO_Ant1_2452



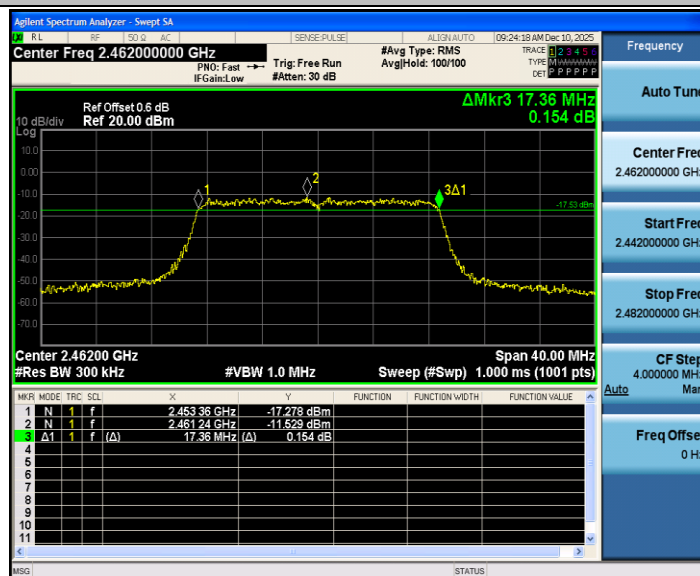
11AX20SISO_Ant1_2412



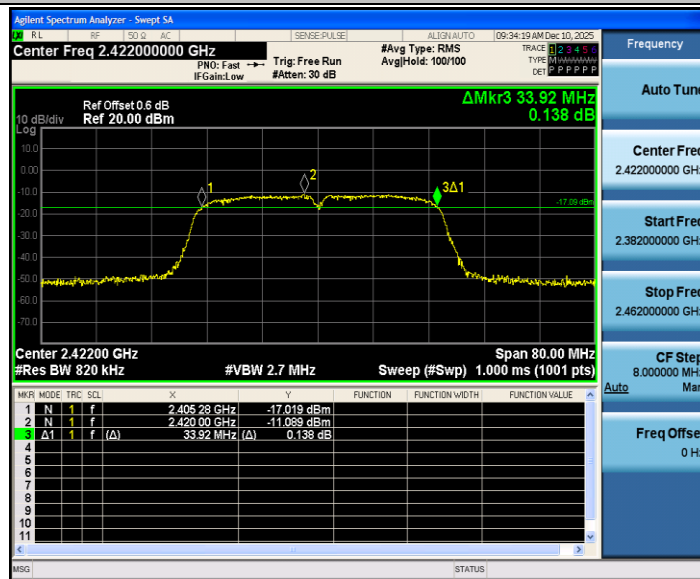
11AX20SISO_Ant1_2437



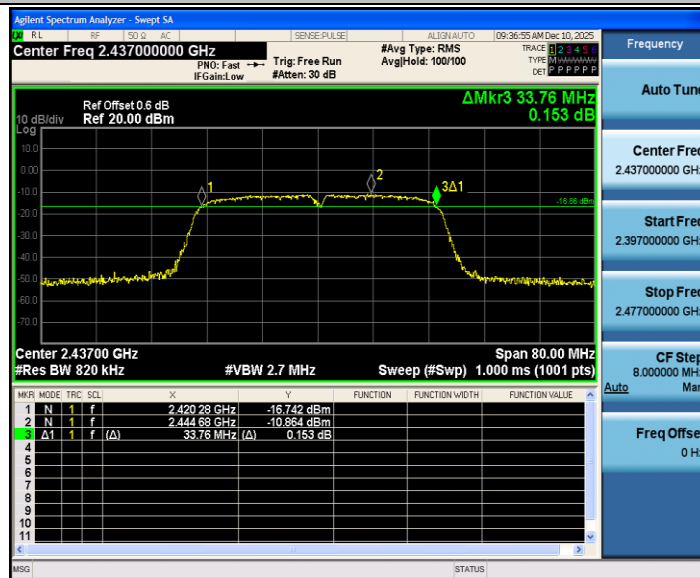
11AX20SISO_Ant1_2462



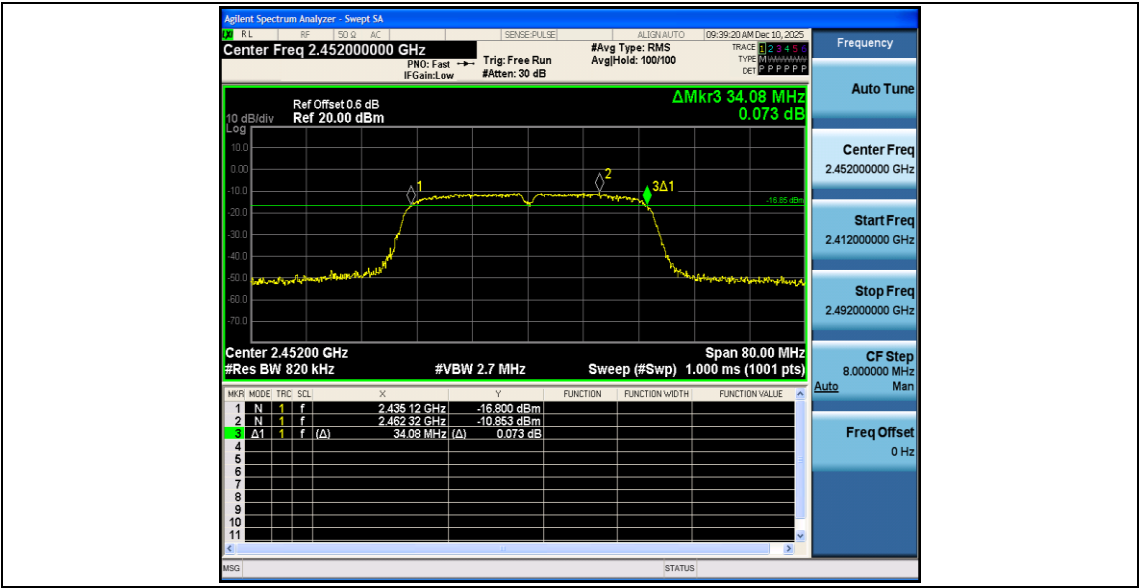
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



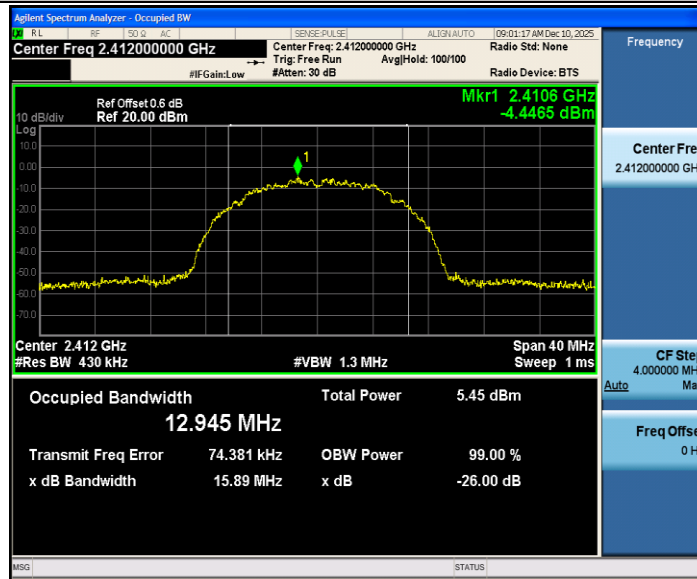
Appendix B: Occupied Channel Bandwidth

Test Result

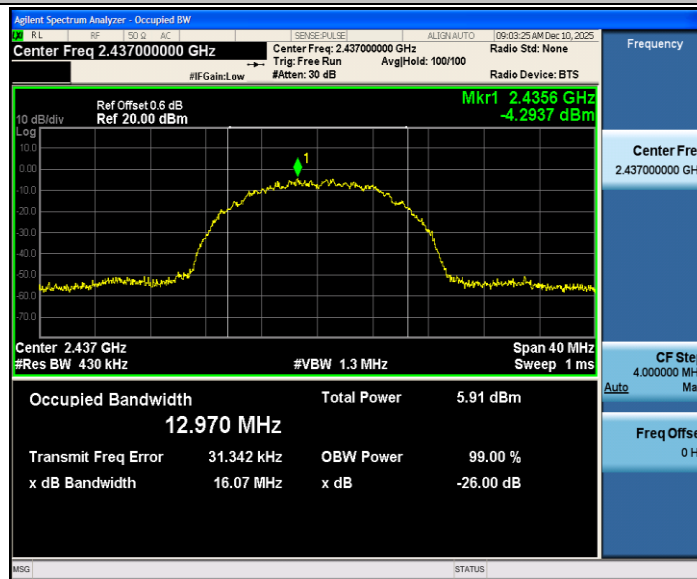
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.945	2405.6019	2418.5469	---	---
		2437	12.970	2430.5463	2443.5163	---	---
		2462	12.918	2455.5658	2468.4838	---	---
11G	Ant1	2412	16.575	2403.7623	2420.3373	---	---
		2437	16.564	2428.7564	2445.3204	---	---
		2462	16.601	2453.7274	2470.3284	---	---
11N20SISO	Ant1	2412	17.436	2403.3281	2420.7641	---	---
		2437	17.440	2428.3119	2445.7519	---	---
		2462	17.481	2453.2880	2470.7690	---	---
11N40SISO	Ant1	2422	34.882	2404.7183	2439.6003	---	---
		2437	34.829	2419.7245	2454.5535	---	---
		2452	34.848	2434.6903	2469.5383	---	---
11AX20SISO	Ant1	2412	17.456	2403.3298	2420.7858	---	---
		2437	17.466	2428.3100	2445.7760	---	---
		2462	17.426	2453.3302	2470.7562	---	---
11AX40SISO	Ant1	2422	34.815	2404.7824	2439.5974	---	---
		2437	34.862	2419.7202	2454.5822	---	---
		2452	34.841	2434.6834	2469.5244	---	---

Test Graphs

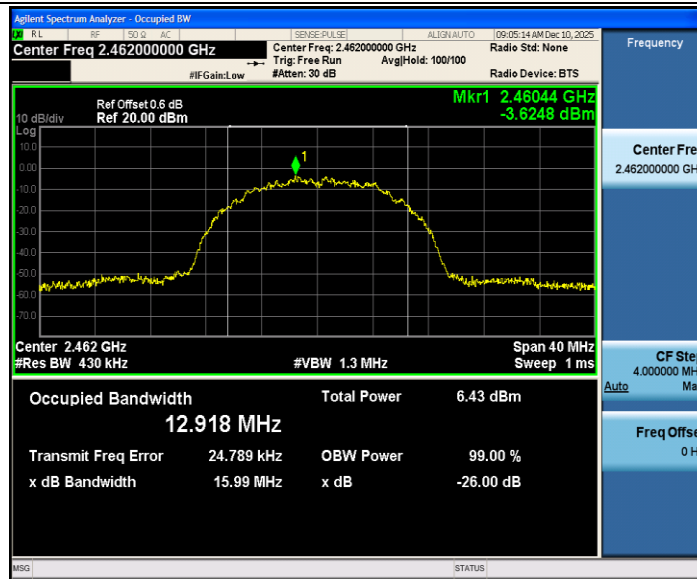
11B_Ant1_2412



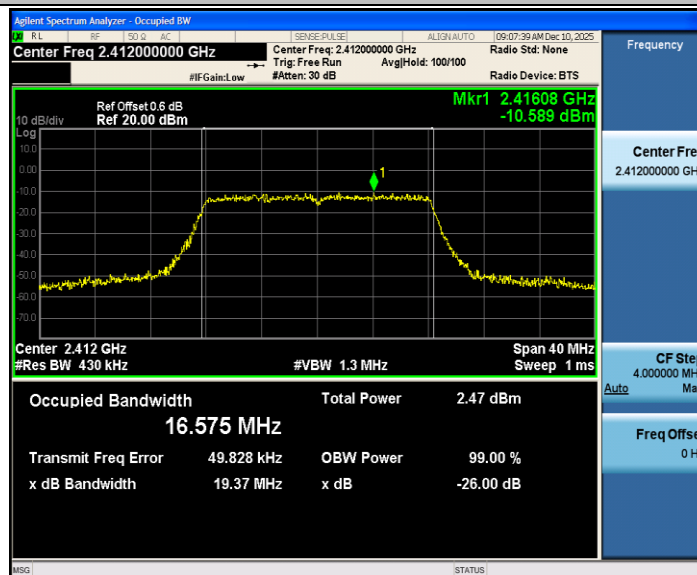
11B_Ant1_2437



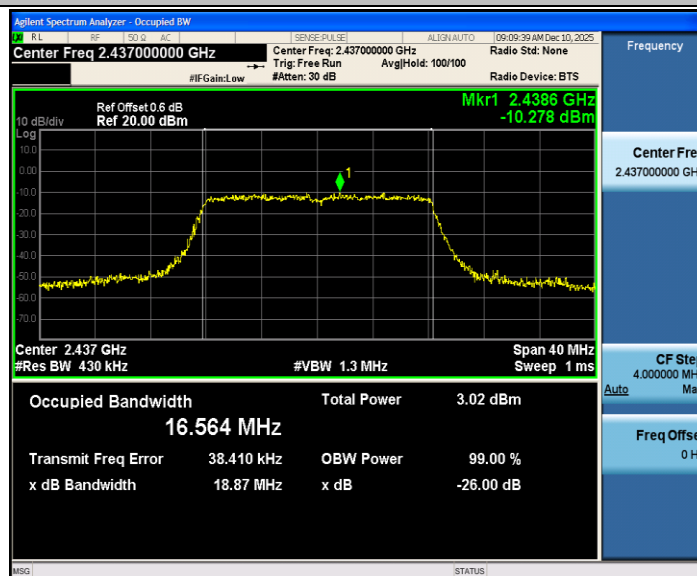
11B_Ant1_2462



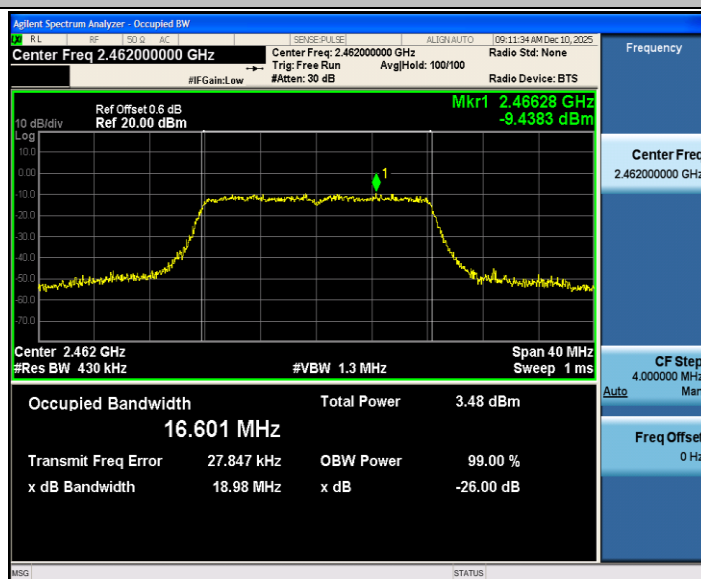
11G_Ant1_2412



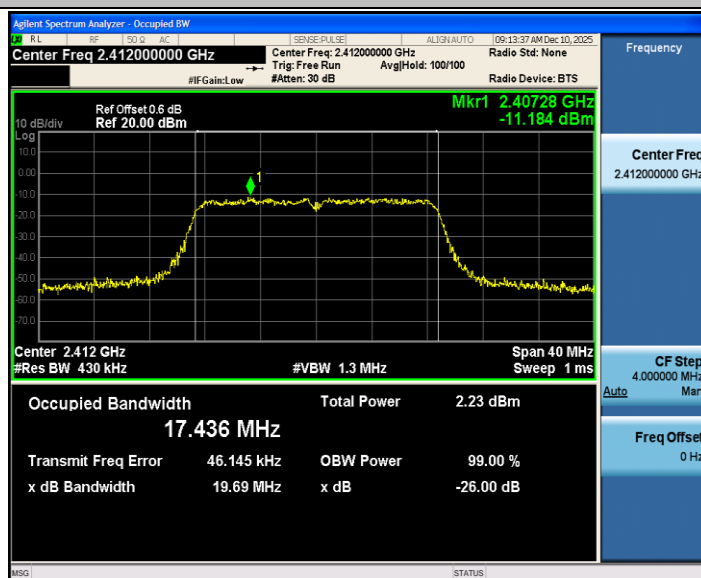
11G_Ant1_2437



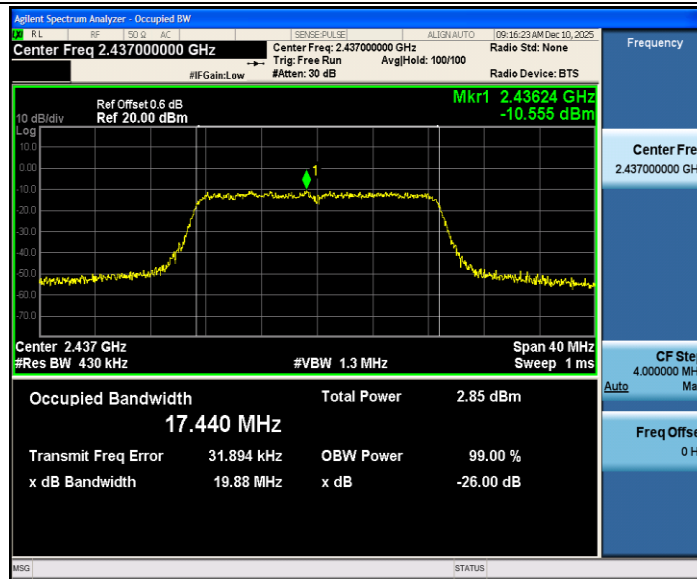
11G_Ant1_2462



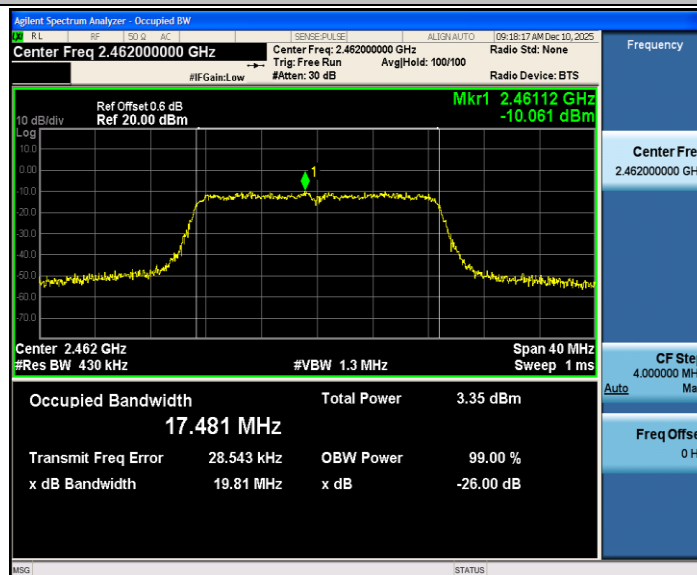
11N20SISO_Ant1_2412



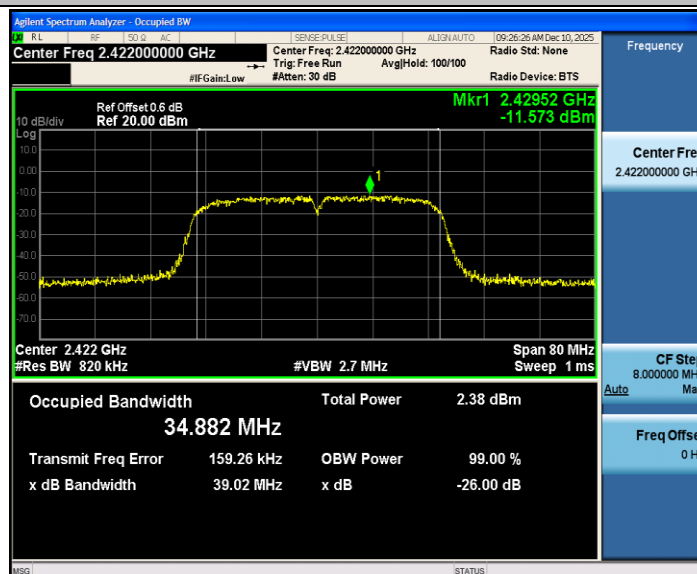
11N20SISO_Ant1_2437



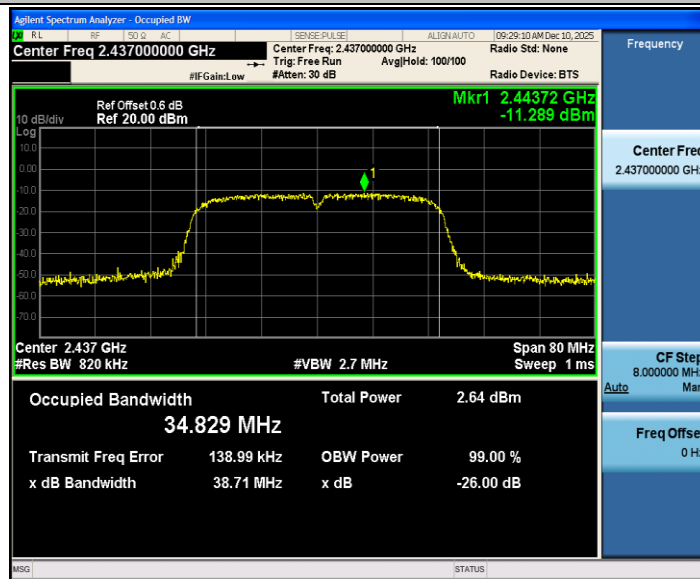
11N20SISO_Ant1_2462



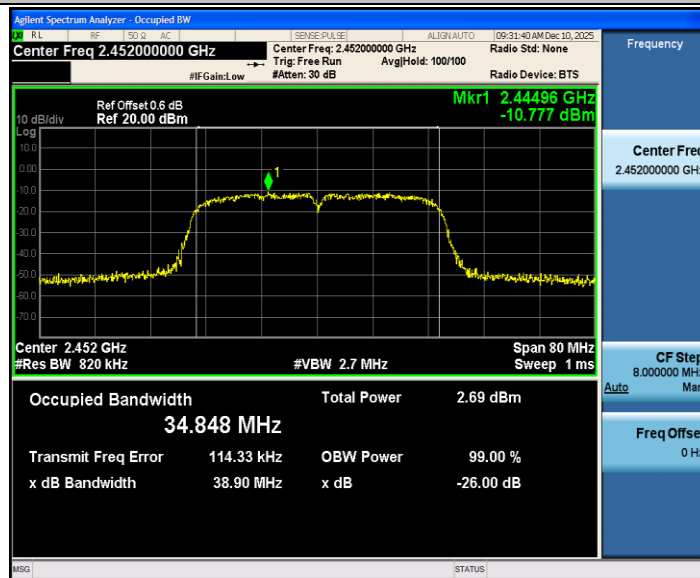
11N40SISO_Ant1_2422



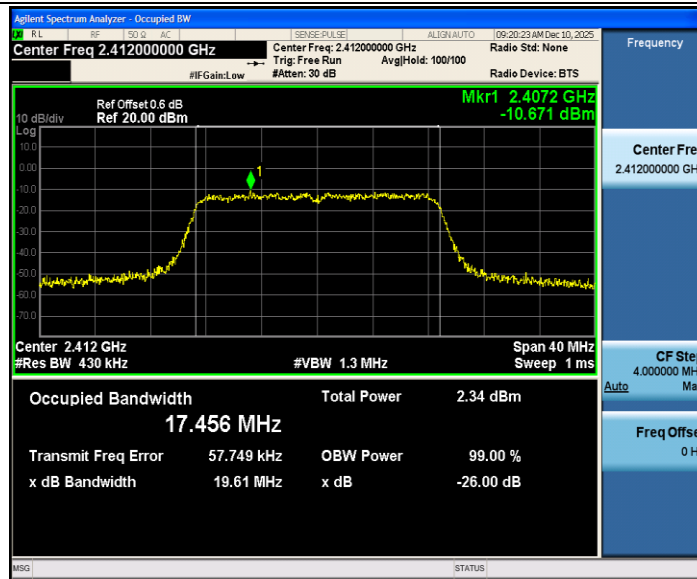
11N40SISO_Ant1_2437



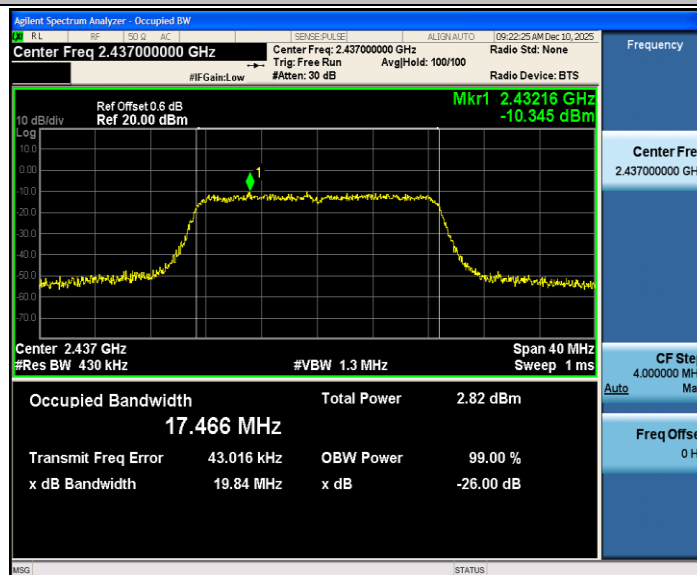
11N40SISO_Ant1_2452



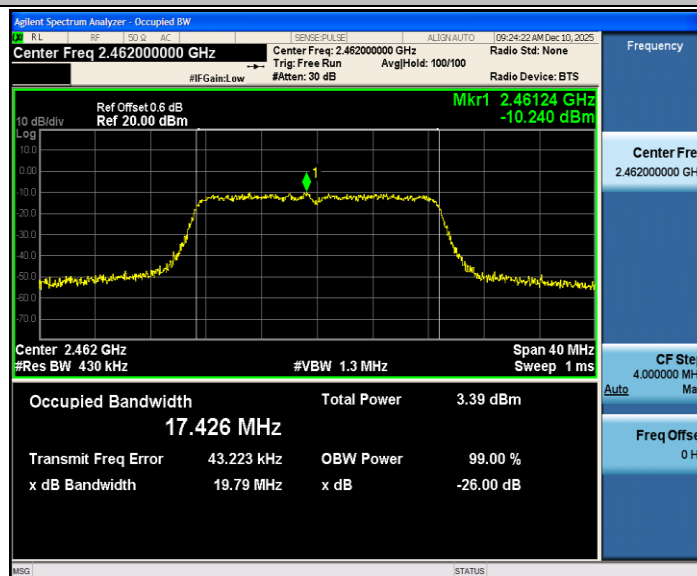
11AX20SISO_Ant1_2412



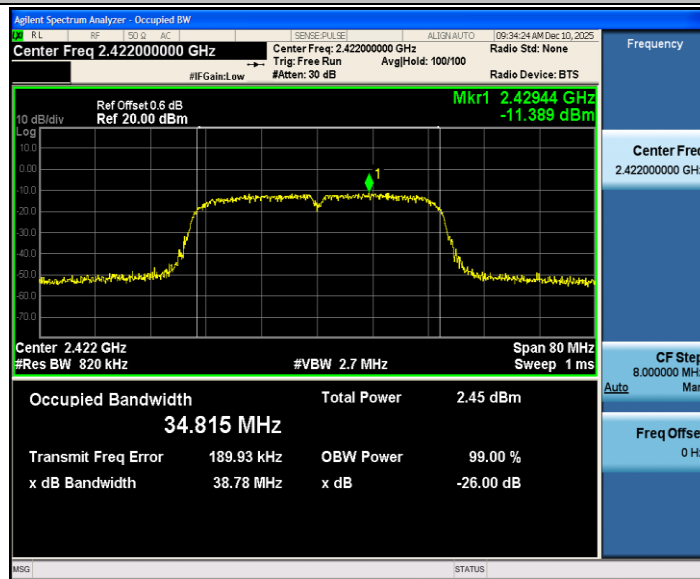
11AX20SISO_Ant1_2437



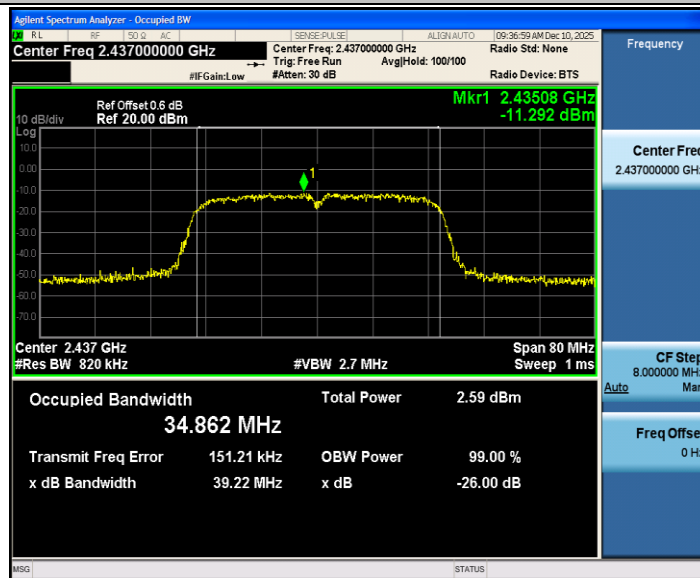
11AX20SISO_Ant1_2462



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	4.87	≤30.00	PASS
		2437	5.57	≤30.00	PASS
		2462	5.77	≤30.00	PASS
11G	Ant1	2412	3.38	≤30.00	PASS
		2437	3.92	≤30.00	PASS
		2462	4.34	≤30.00	PASS
11N20SISO	Ant1	2412	3.44	≤30.00	PASS
		2437	4.04	≤30.00	PASS
		2462	4.57	≤30.00	PASS
11N40SISO	Ant1	2422	2.82	≤30.00	PASS
		2437	2.78	≤30.00	PASS
		2452	3.02	≤30.00	PASS
11AX20SISO	Ant1	2412	3.57	≤30.00	PASS
		2437	4.04	≤30.00	PASS
		2462	4.49	≤30.00	PASS
11AX40SISO	Ant1	2422	2.82	≤30.00	PASS
		2437	2.92	≤30.00	PASS
		2452	2.97	≤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	-23.99	≤8.00	PASS
		2437	-23.30	≤8.00	PASS
		2462	-22.89	≤8.00	PASS
11G	Ant1	2412	-31.15	≤8.00	PASS
		2437	-30.58	≤8.00	PASS
		2462	-30.35	≤8.00	PASS
11N20SISO	Ant1	2412	-30.65	≤8.00	PASS
		2437	-30.50	≤8.00	PASS
		2462	-30.12	≤8.00	PASS
11N40SISO	Ant1	2422	-33.34	≤8.00	PASS
		2437	-32.19	≤8.00	PASS
		2452	-32.29	≤8.00	PASS
11AX20SISO	Ant1	2412	-30.70	≤8.00	PASS
		2437	-30.48	≤8.00	PASS
		2462	-30.01	≤8.00	PASS
11AX40SISO	Ant1	2422	-32.59	≤8.00	PASS
		2437	-32.14	≤8.00	PASS
		2452	-32.92	≤8.00	PASS

Test Graphs

11B_Ant1_2412



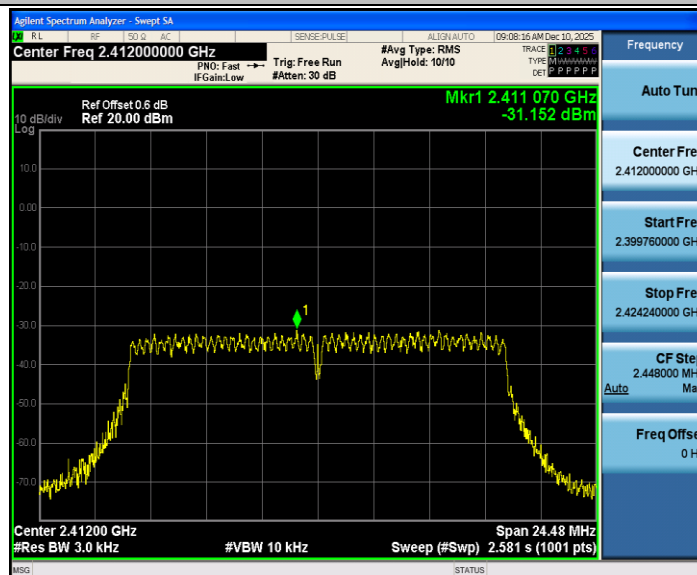
11B_Ant1_2437



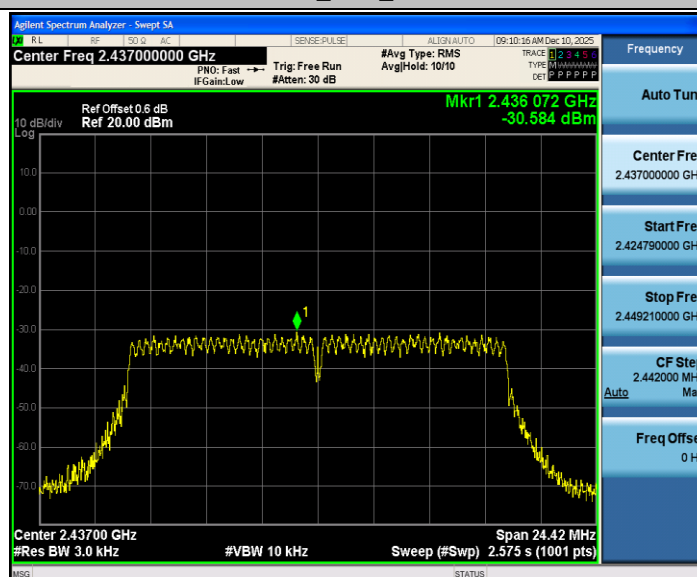
11B_Ant1_2462



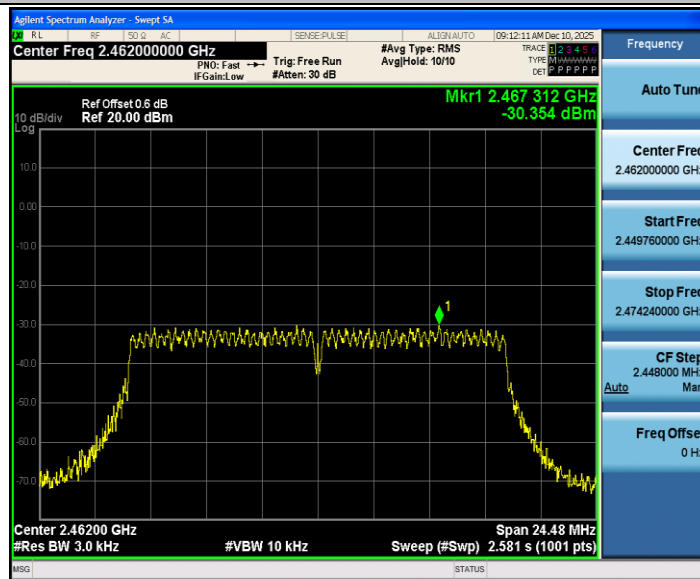
11G_Ant1_2412



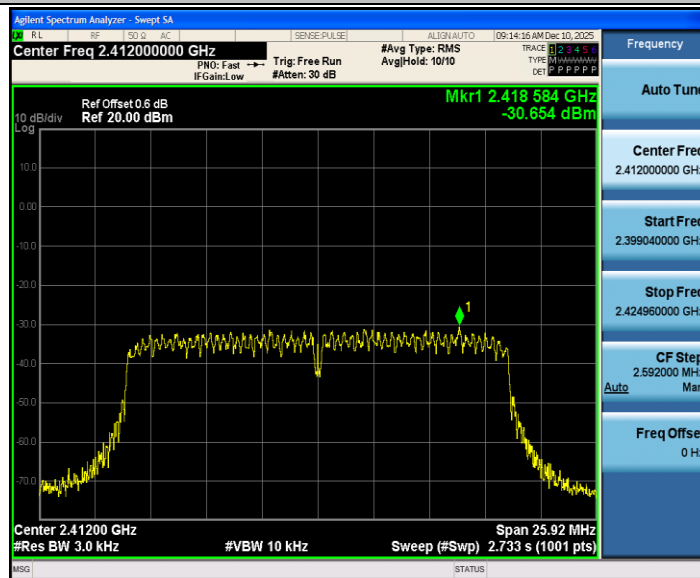
11G_Ant1_2437



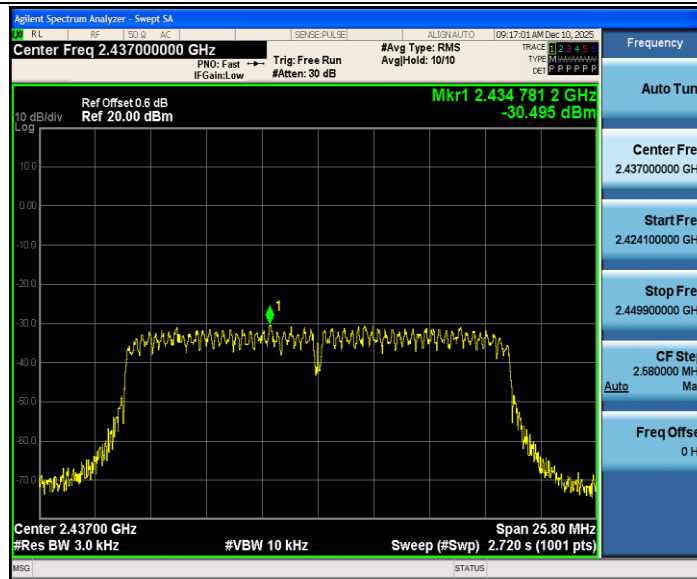
11G_Ant1_2462



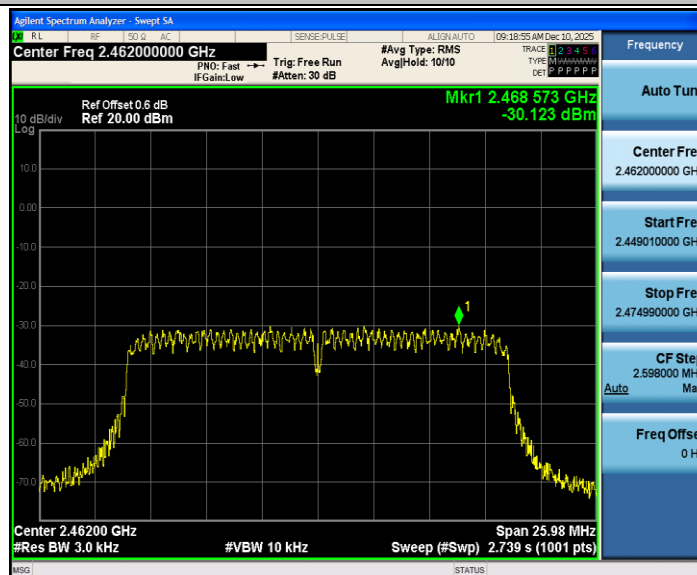
11N20SISO_Ant1_2412



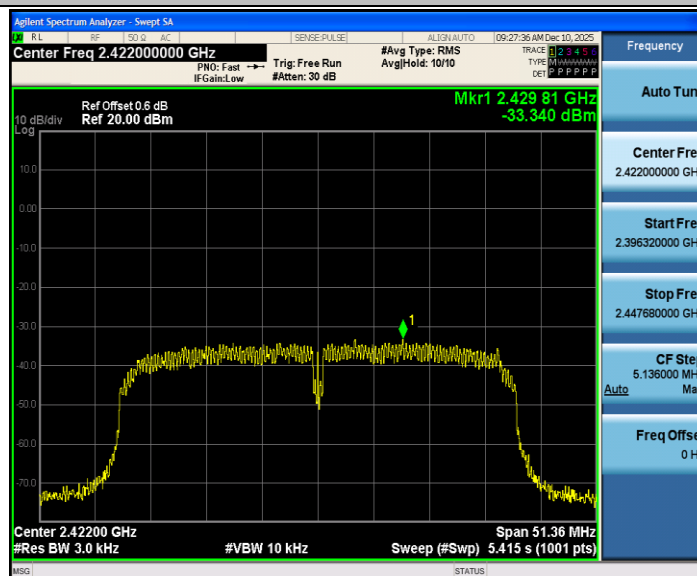
11N20SISO_Ant1_2437



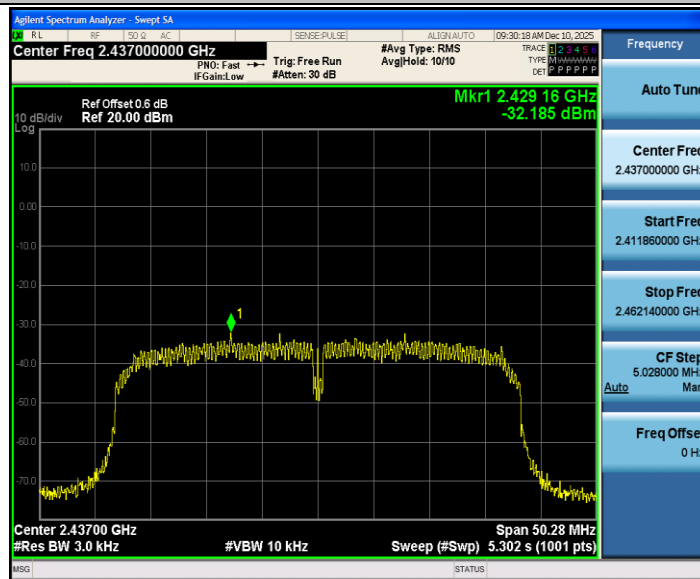
11N20SISO_Ant1_2462



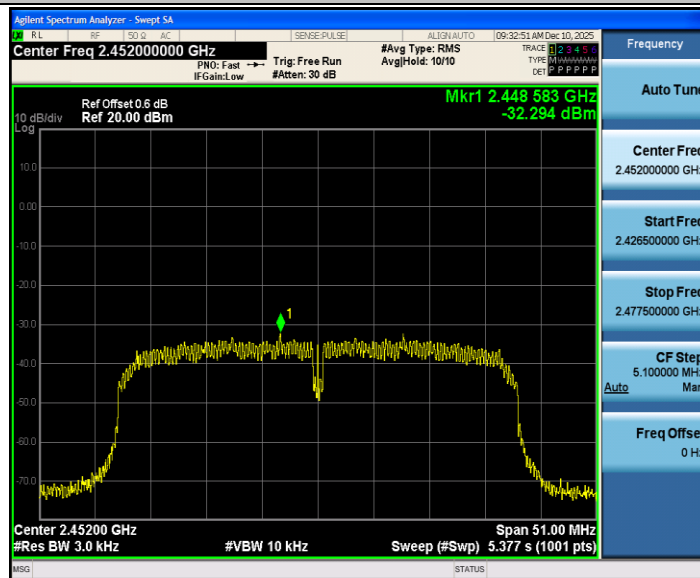
11N40SISO_Ant1_2422



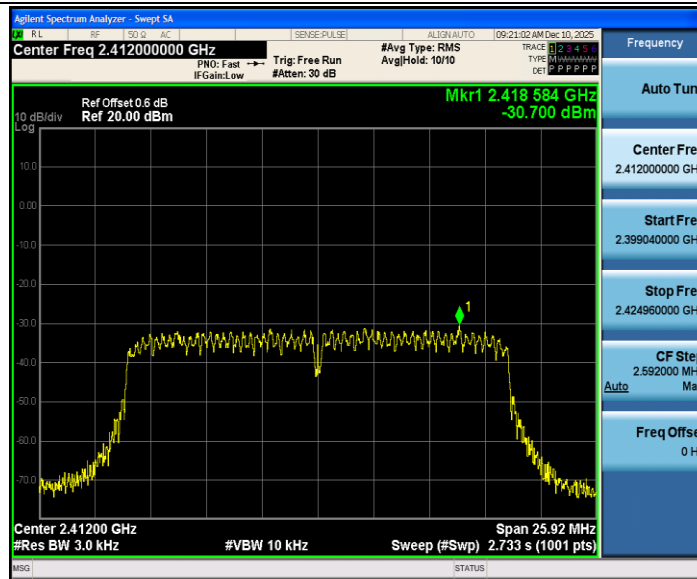
11N40SISO_Ant1_2437



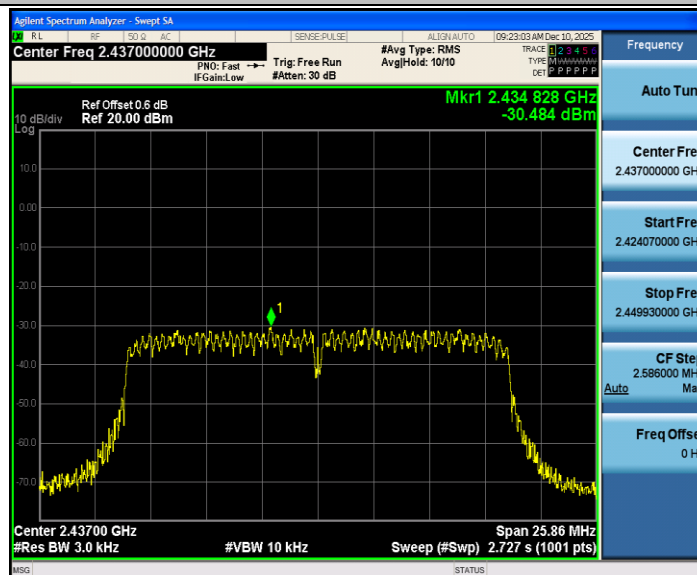
11N40SISO_Ant1_2452



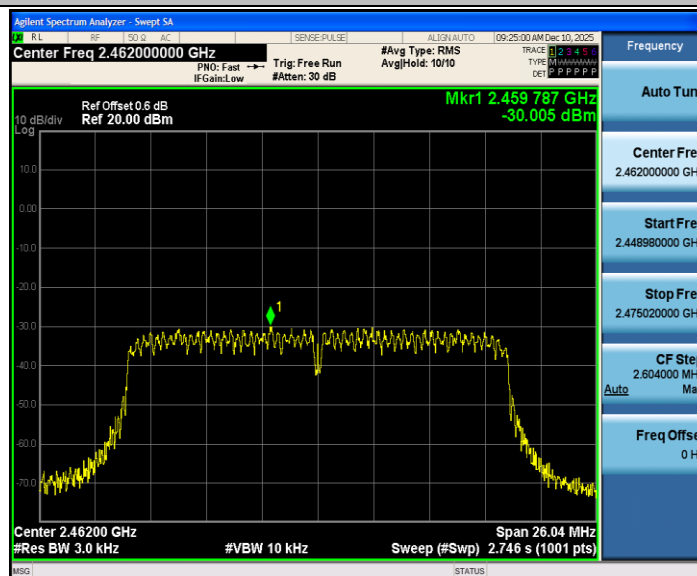
11AX20SISO_Ant1_2412



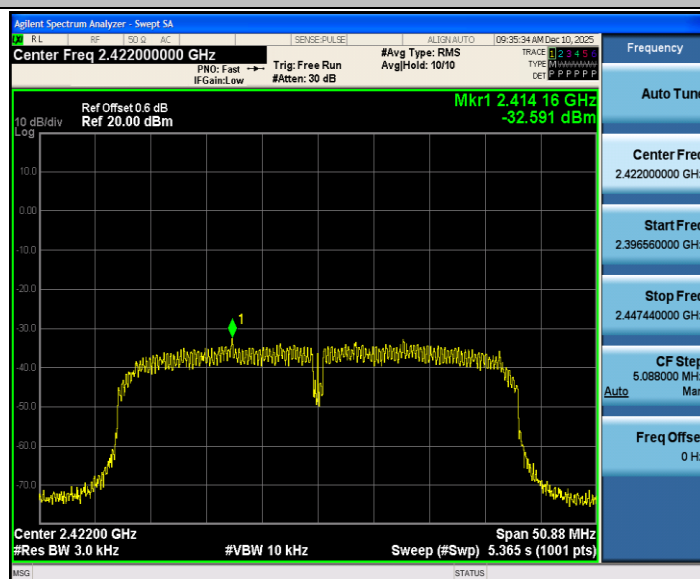
11AX20SISO_Ant1_2437



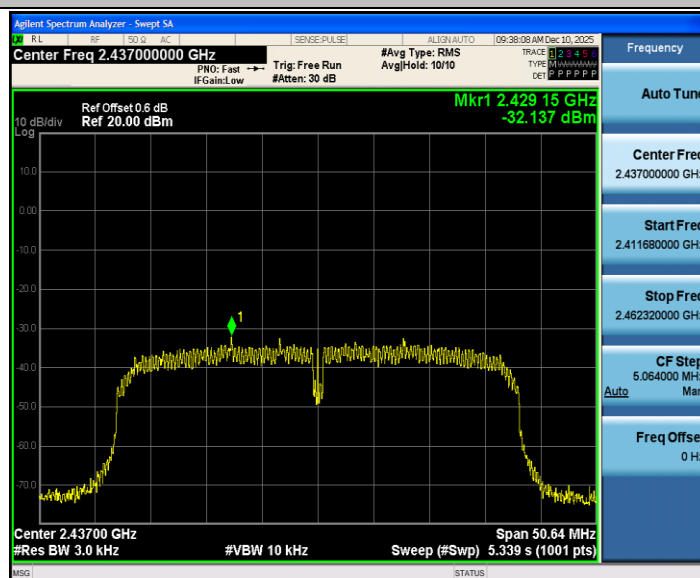
11AX20SISO_Ant1_2462



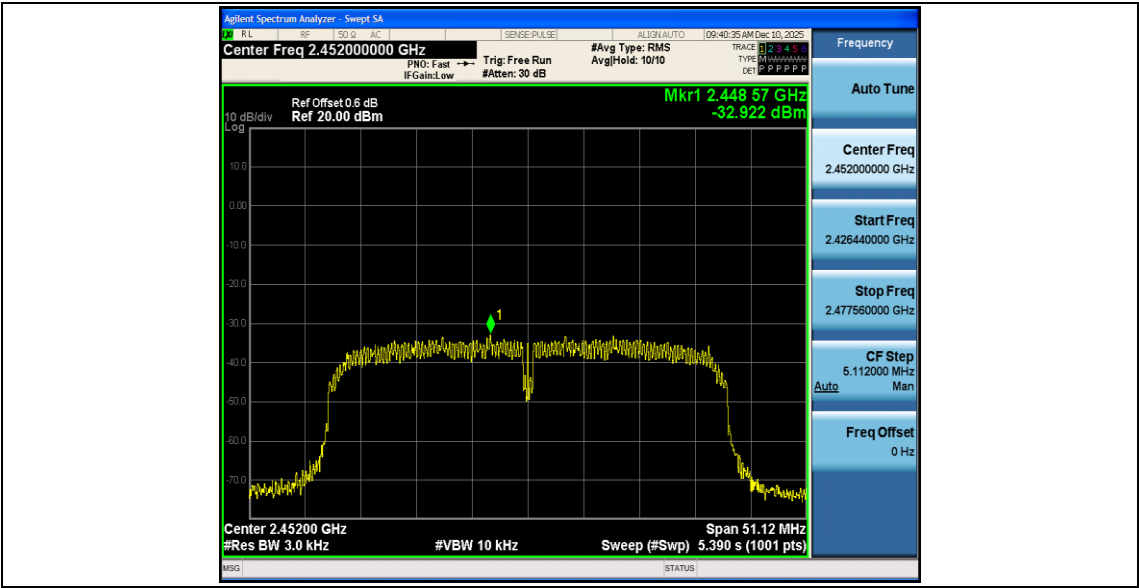
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



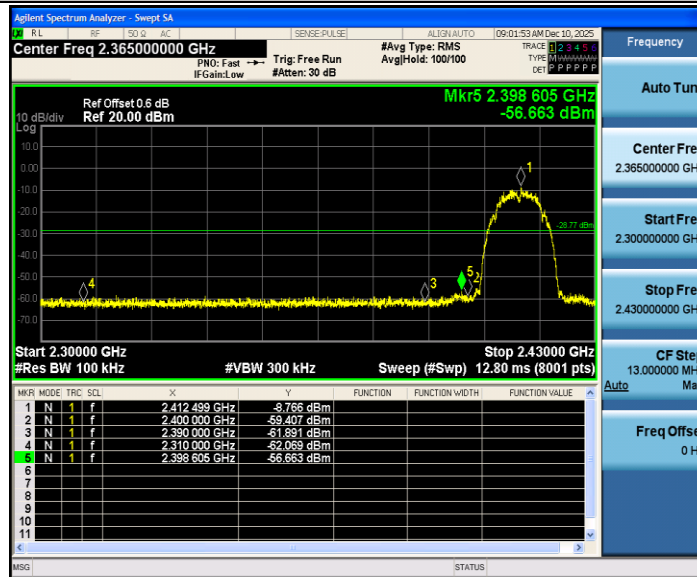
Appendix E: Band edge measurements

Test Result

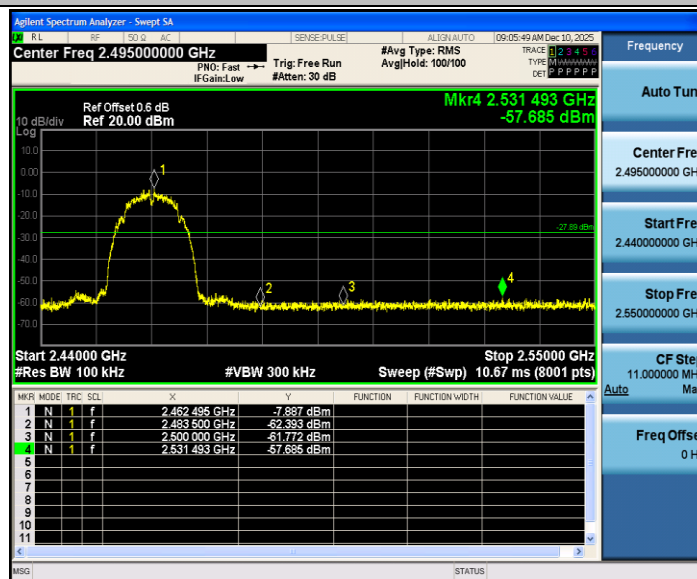
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-8.77	-56.66	≤-28.77	PASS
		High	2462	-7.89	-57.69	≤-27.89	PASS
11G	Ant1	Low	2412	-16.90	-54.51	≤-36.9	PASS
		High	2462	-16.29	-57.52	≤-36.29	PASS
11N20SISO	Ant1	Low	2412	-17.56	-55.15	≤-37.56	PASS
		High	2462	-16.15	-57.09	≤-36.15	PASS
11N40SISO	Ant1	Low	2422	-20.39	-55.51	≤-40.39	PASS
		High	2452	-20.32	-57.9	≤-40.32	PASS
11AX20SISO	Ant1	Low	2412	-17.48	-54.76	≤-37.48	PASS
		High	2462	-15.98	-56.99	≤-35.98	PASS
11AX40SISO	Ant1	Low	2422	-20.11	-55.35	≤-40.11	PASS
		High	2452	-20.22	-56.61	≤-40.22	PASS

Test Graphs

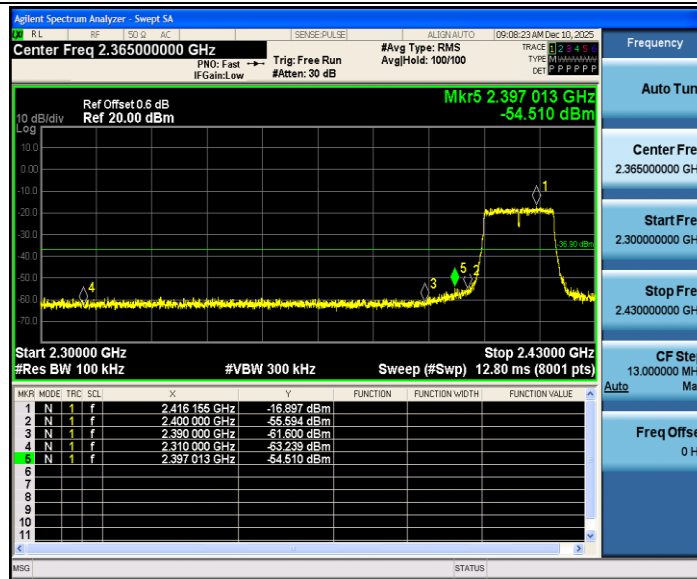
11B_Ant1_Low_2412



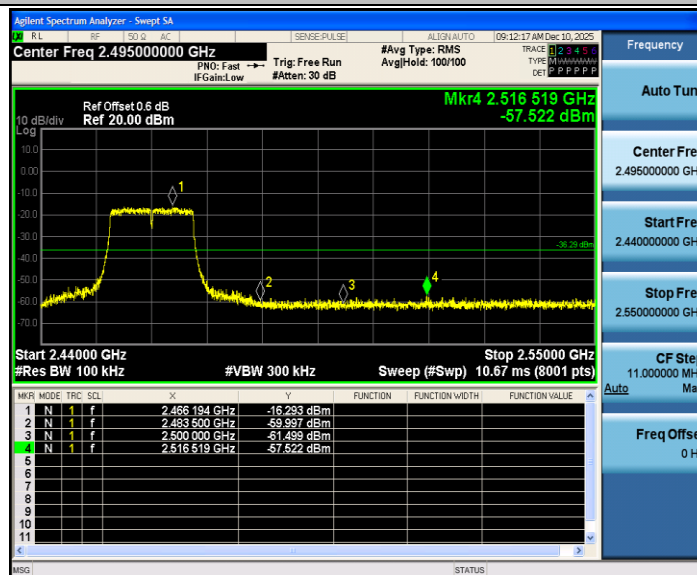
11B_Ant1_High_2462



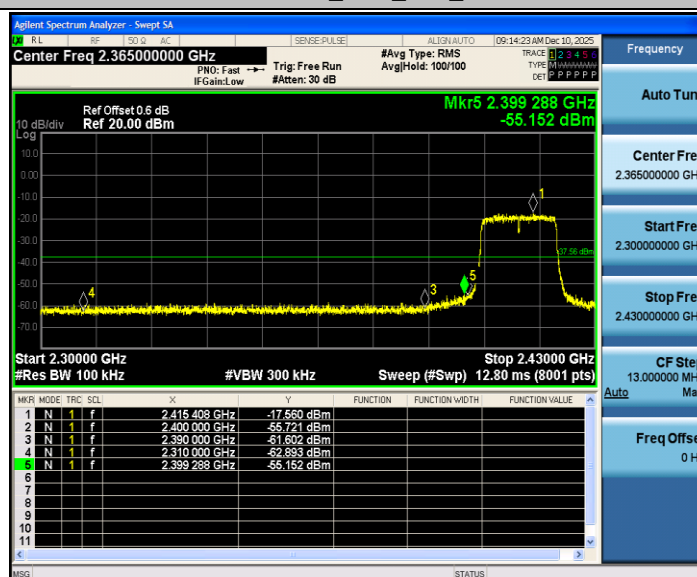
11G_Ant1_Low_2412



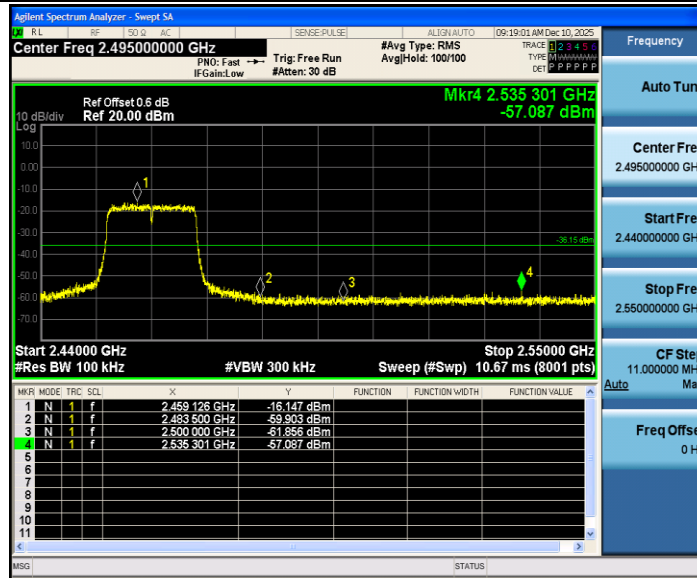
11G_Ant1_High_2462



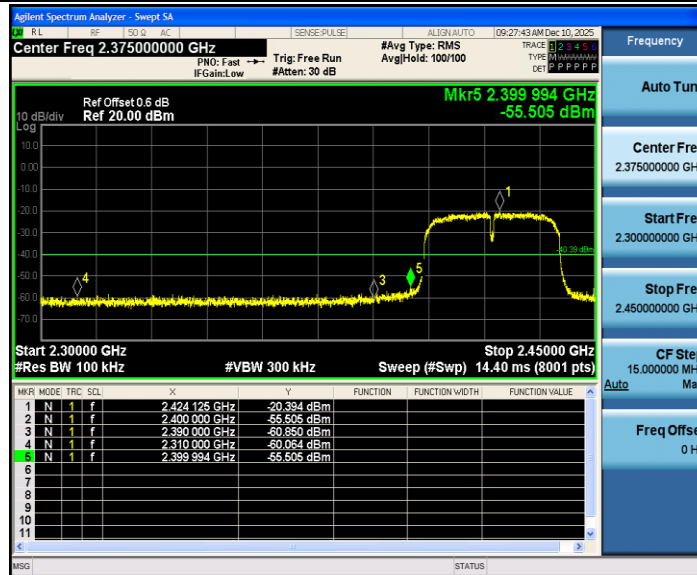
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452