

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A8WY-SC-AI27

Company : Ningbo Simshine Intelligent Technology Co., Ltd

EUT : Ellie Baby Monitor

Model Number : SC-AI27

Report No. : CTA25112000201

Reviewed By : Eric Wang

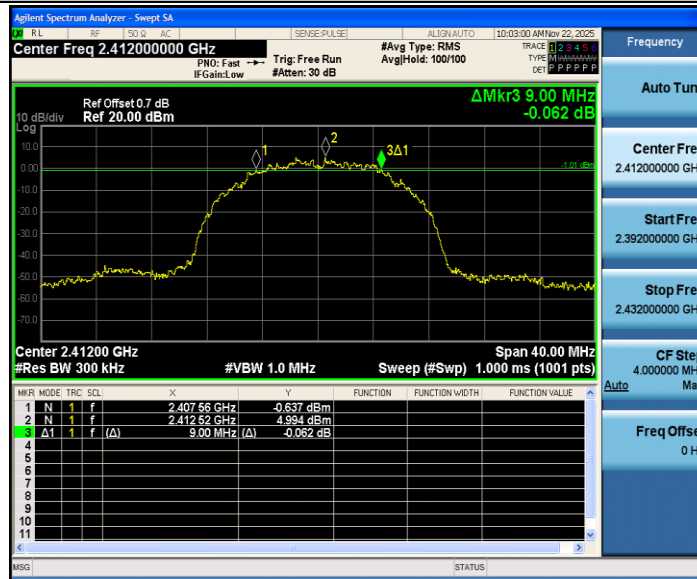
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.000	2407.560	2416.560	0.5	PASS
		2437	9.040	2432.520	2441.560	0.5	PASS
		2462	8.160	2458.080	2466.240	0.5	PASS
11G	Ant1	2412	16.320	2403.920	2420.240	0.5	PASS
		2437	16.320	2428.880	2445.200	0.5	PASS
		2462	16.280	2453.920	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.360	2403.360	2420.720	0.5	PASS
		2437	17.360	2428.360	2445.720	0.5	PASS
		2462	17.240	2453.400	2470.640	0.5	PASS
11N40SISO	Ant1	2422	33.920	2405.360	2439.280	0.5	PASS
		2437	33.840	2420.280	2454.120	0.5	PASS
		2452	33.840	2435.280	2469.120	0.5	PASS
11AX20SISO	Ant1	2412	17.400	2403.320	2420.720	0.5	PASS
		2437	17.320	2428.400	2445.720	0.5	PASS
		2462	17.240	2453.400	2470.640	0.5	PASS
11AX40SISO	Ant1	2422	33.600	2405.360	2438.960	0.5	PASS
		2437	33.760	2420.280	2454.040	0.5	PASS
		2452	33.680	2435.280	2468.960	0.5	PASS

Test Graphs

11B_Ant1_2412



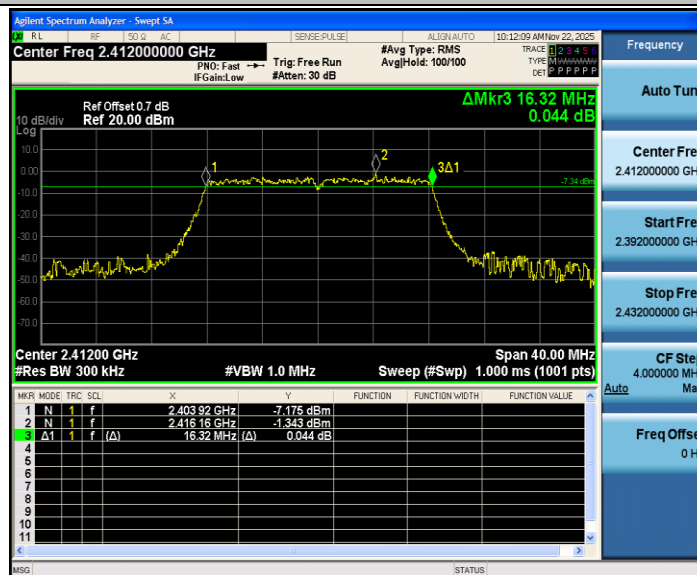
11B_Ant1_2437



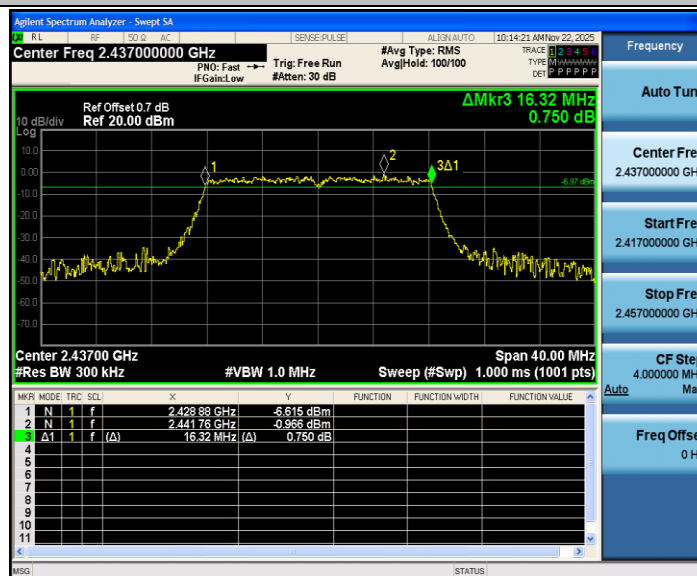
11B_Ant1_2462

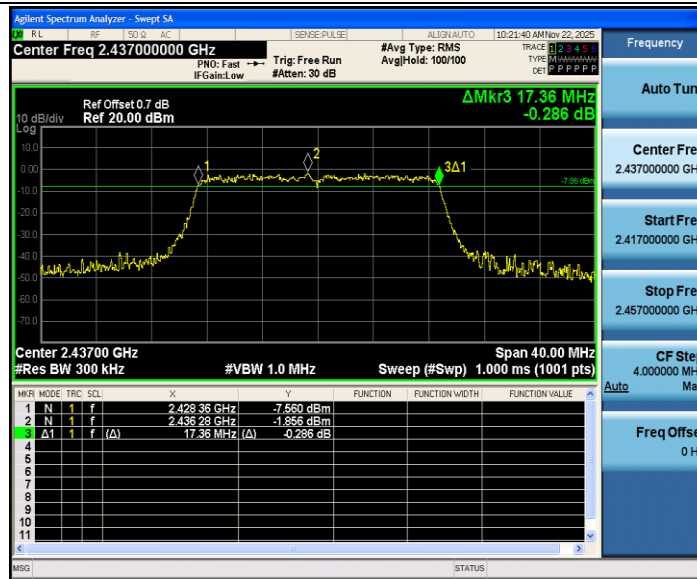


11G_Ant1_2412

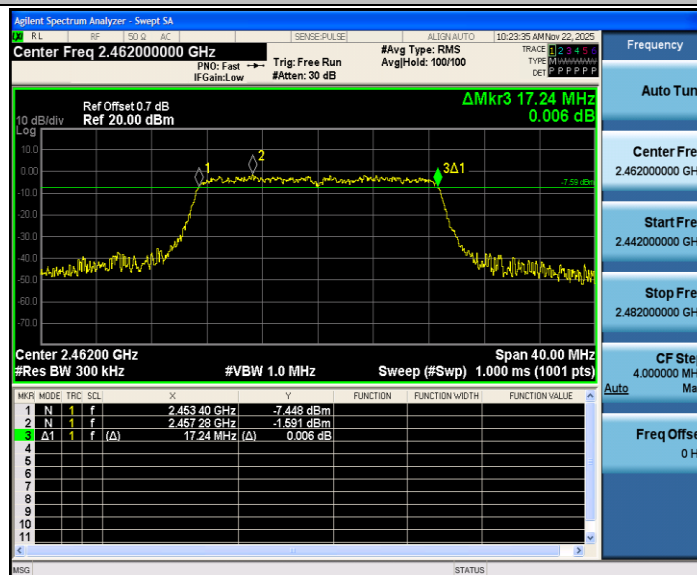


11G_Ant1_2437

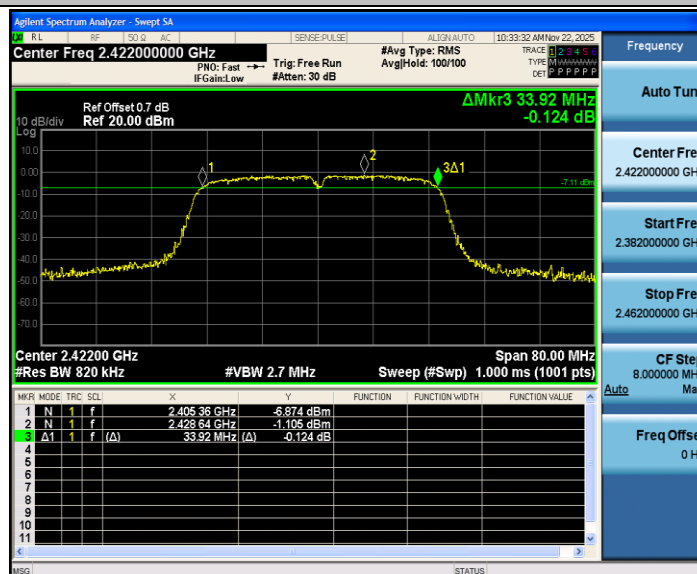




11N20SISO_Ant1_2462



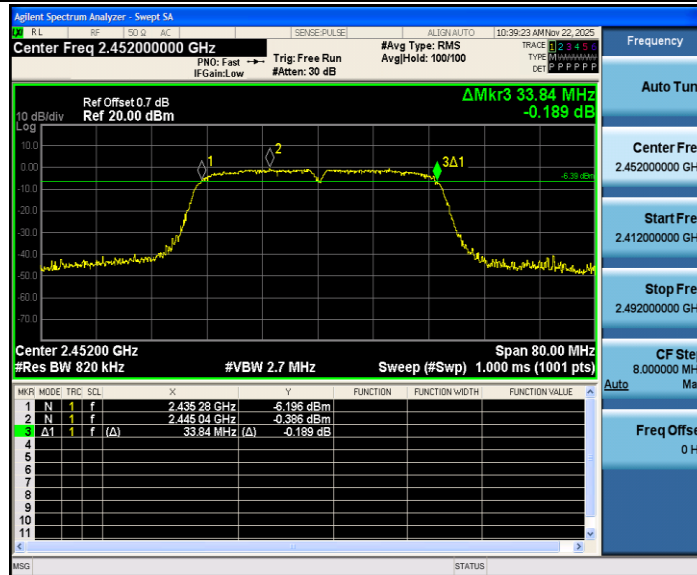
11N40SISO_Ant1_2422



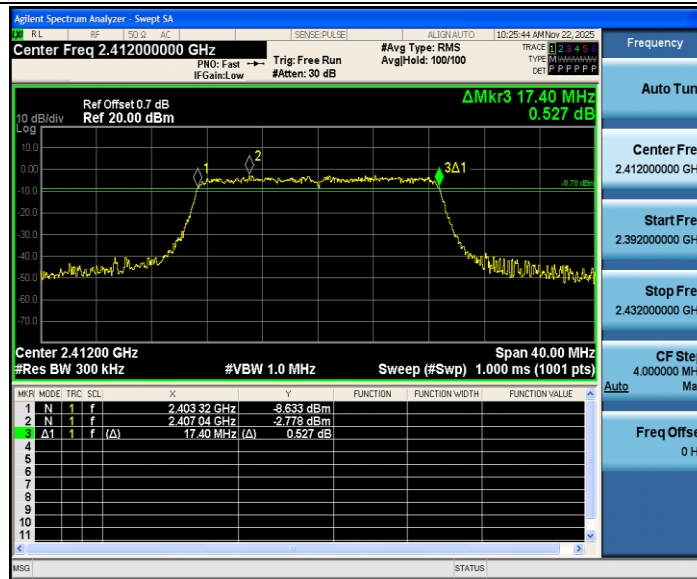
11N40SISO_Ant1_2437



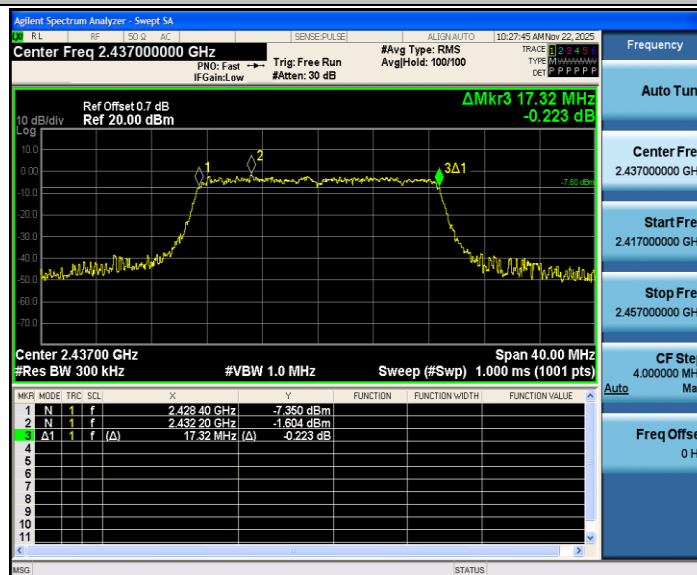
11N40SISO_Ant1_2452



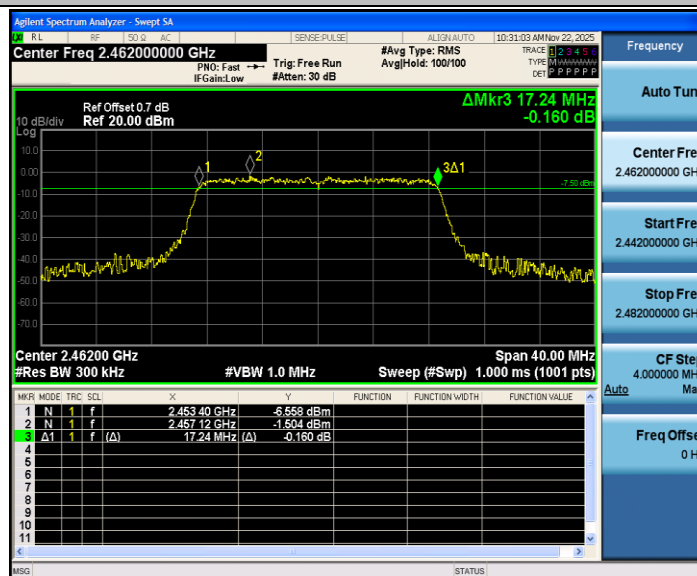
11AX20SISO_Ant1_2412



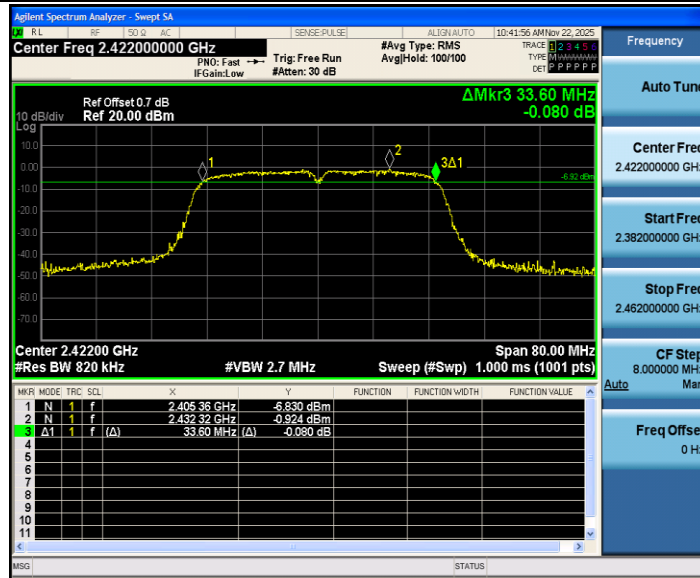
11AX20SISO_Ant1_2437



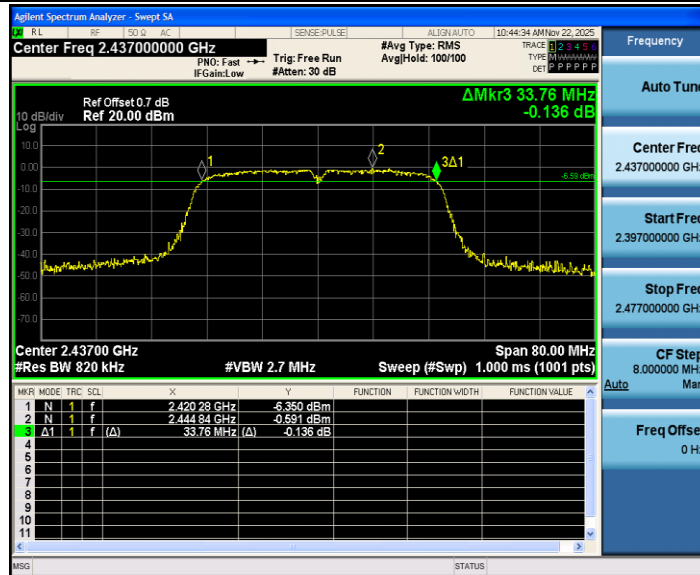
11AX20SISO_Ant1_2462



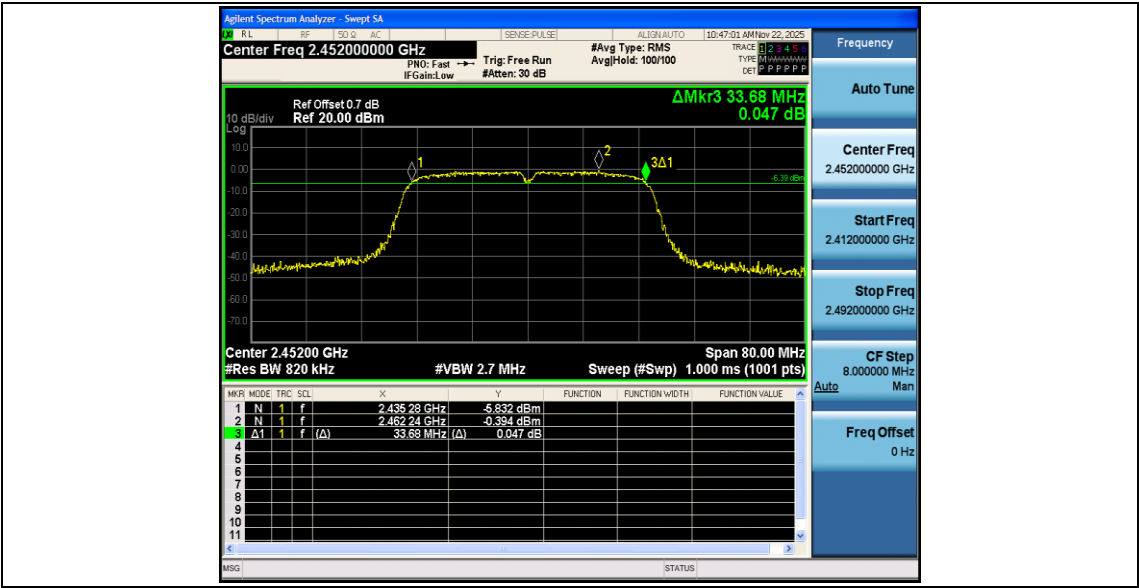
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



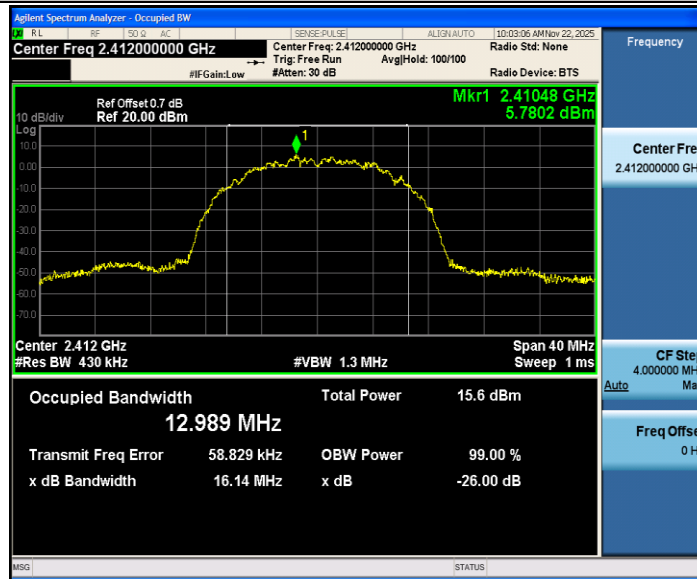
Appendix B: Occupied Channel Bandwidth

Test Result

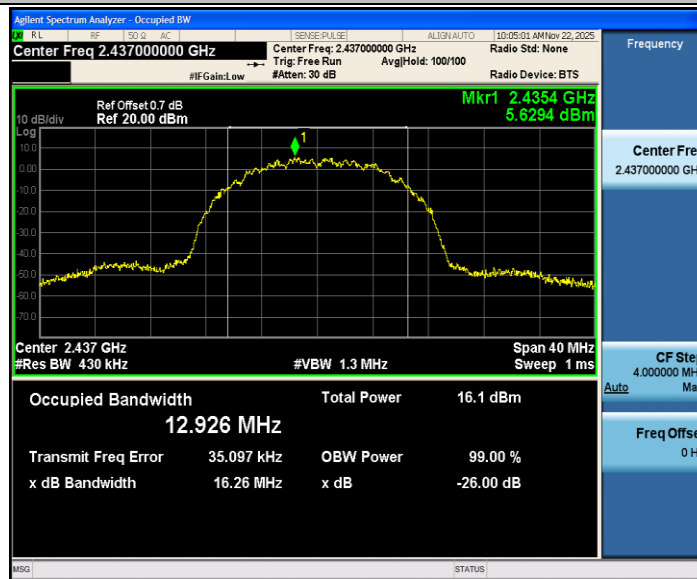
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.989	2405.5643	2418.5533	---	---
		2437	12.926	2430.5721	2443.4981	---	---
		2462	12.961	2455.5209	2468.4819	---	---
11G	Ant1	2412	16.538	2403.7852	2420.3232	---	---
		2437	16.608	2428.7319	2445.3399	---	---
		2462	16.589	2453.7365	2470.3255	---	---
11N20SISO	Ant1	2412	17.458	2403.3186	2420.7766	---	---
		2437	17.457	2428.3138	2445.7708	---	---
		2462	17.433	2453.3106	2470.7436	---	---
11N40SISO	Ant1	2422	34.782	2404.7687	2439.5507	---	---
		2437	34.808	2419.7203	2454.5283	---	---
		2452	34.852	2434.6491	2469.5011	---	---
11AX20SISO	Ant1	2412	17.457	2403.3266	2420.7836	---	---
		2437	17.464	2428.3133	2445.7773	---	---
		2462	17.441	2453.3172	2470.7582	---	---
11AX40SISO	Ant1	2422	34.834	2404.7394	2439.5734	---	---
		2437	34.799	2419.7374	2454.5364	---	---
		2452	34.830	2434.6995	2469.5295	---	---

Test Graphs

11B_Ant1_2412



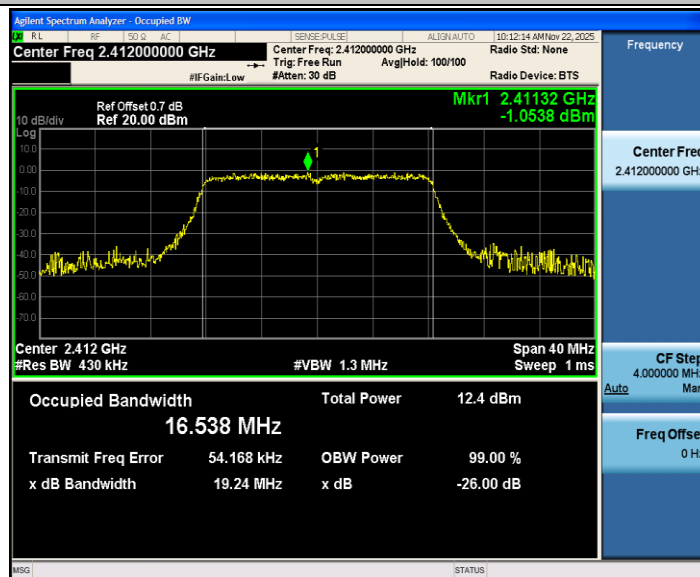
11B_Ant1_2437



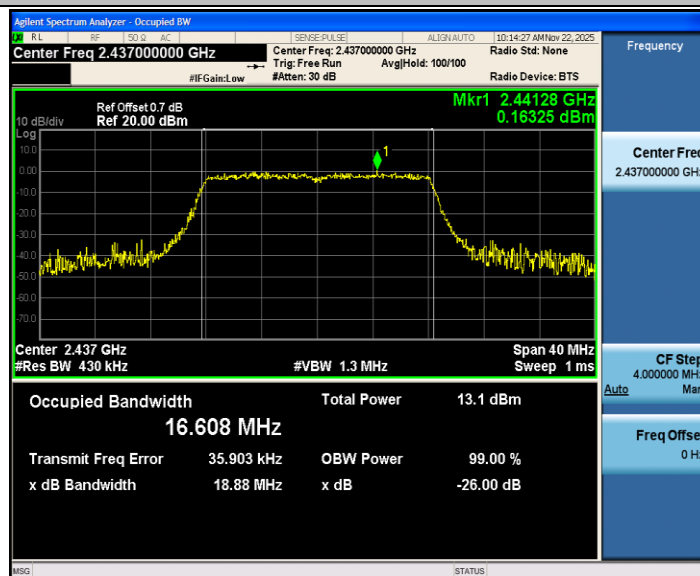
11B_Ant1_2462



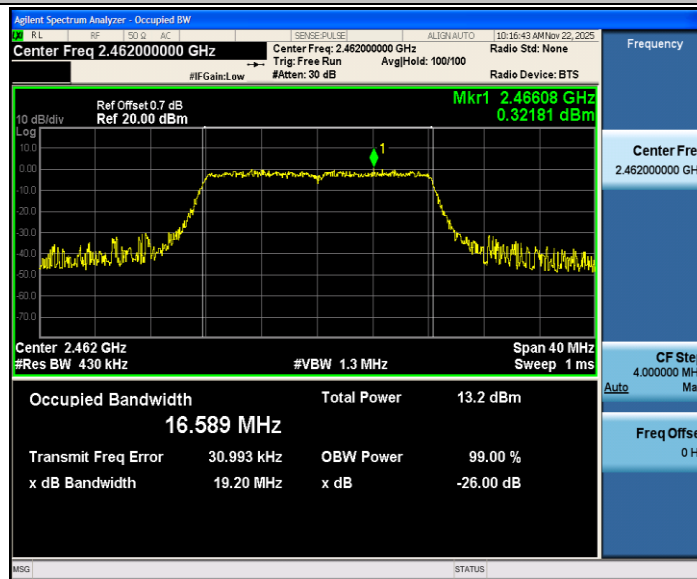
11G_Ant1_2412



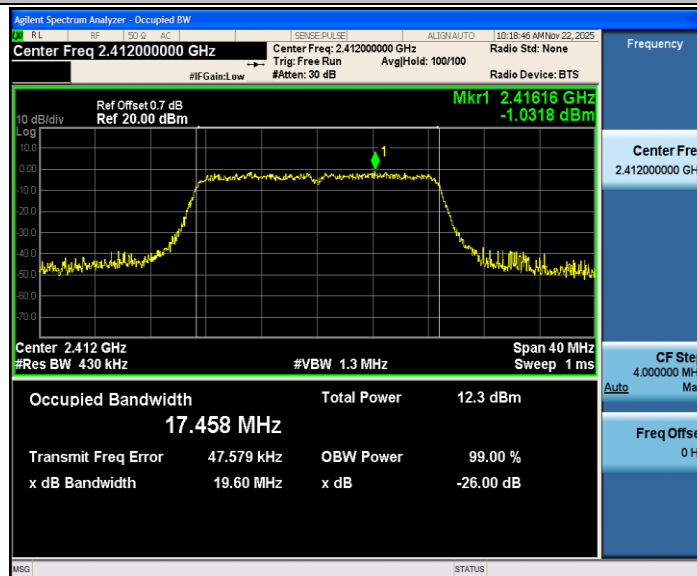
11G_Ant1_2437



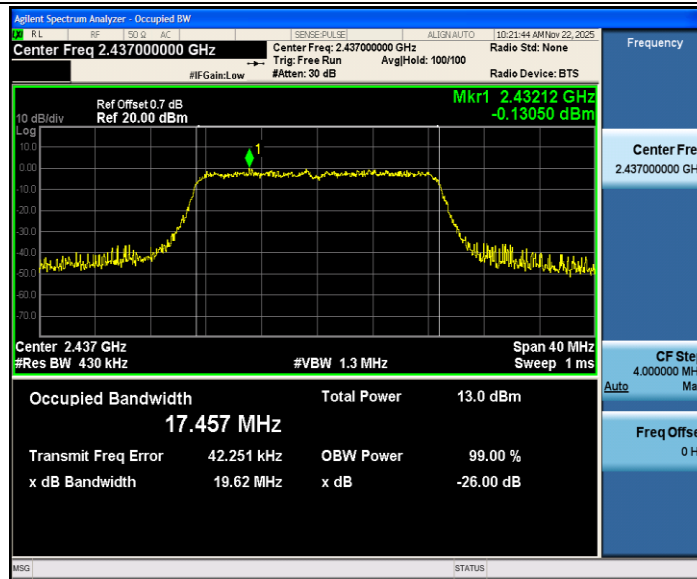
11G_Ant1_2462



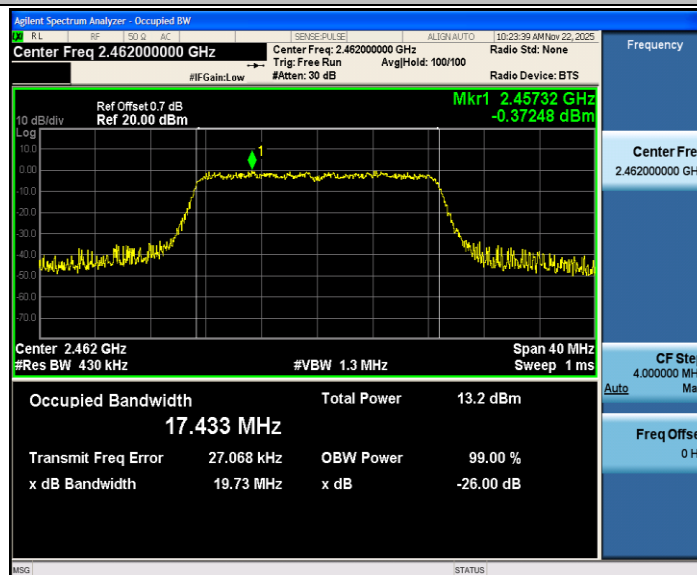
11N20SISO_Ant1_2412



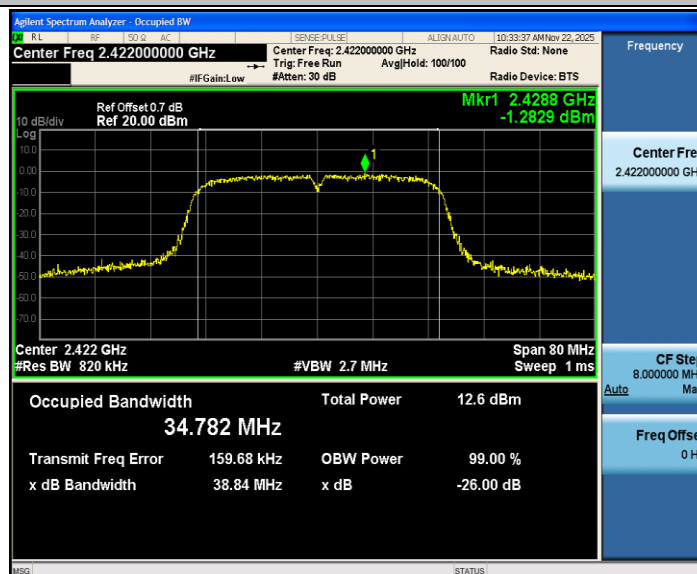
11N20SISO_Ant1_2437



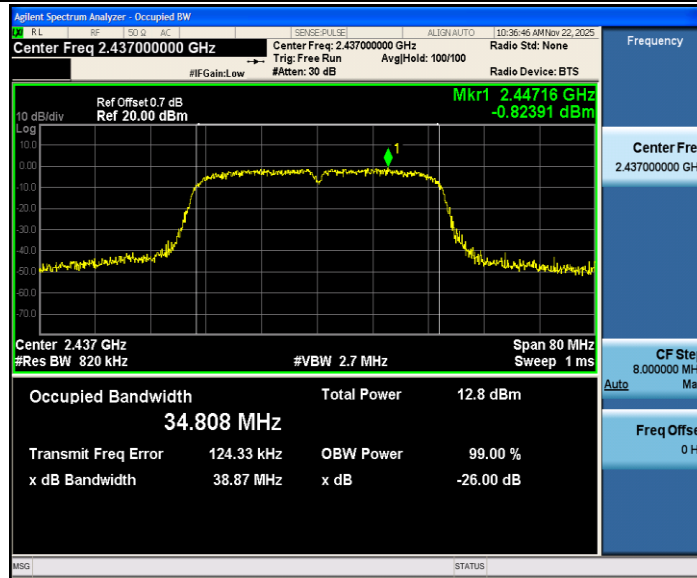
11N20SISO_Ant1_2462



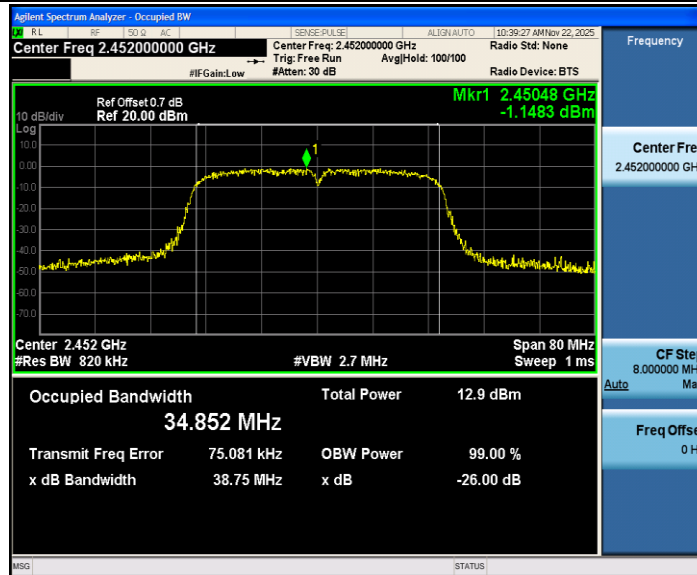
11N40SISO_Ant1_2422



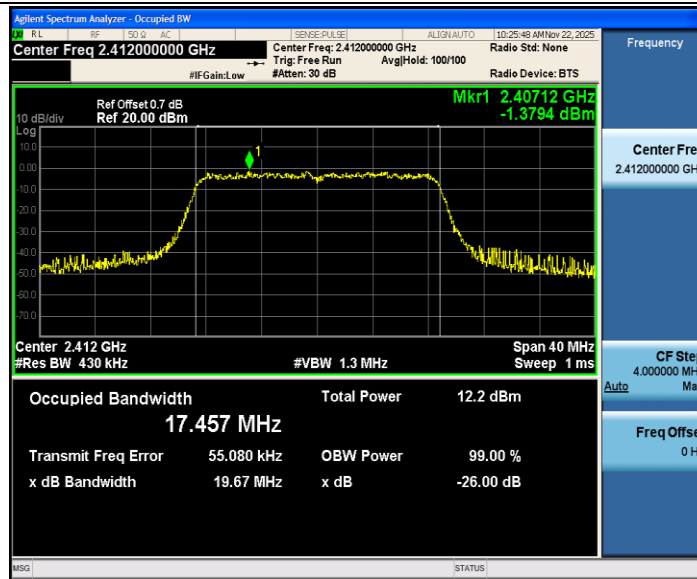
11N40SISO_Ant1_2437



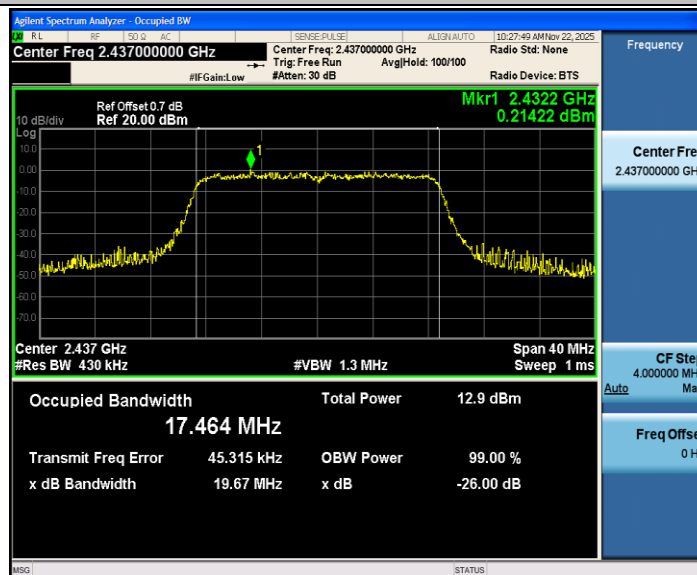
11N40SISO_Ant1_2452



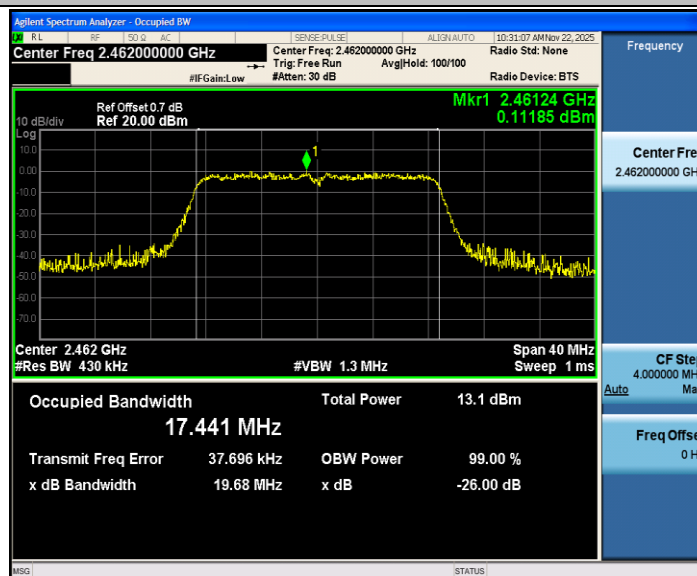
11AX20SISO_Ant1_2412



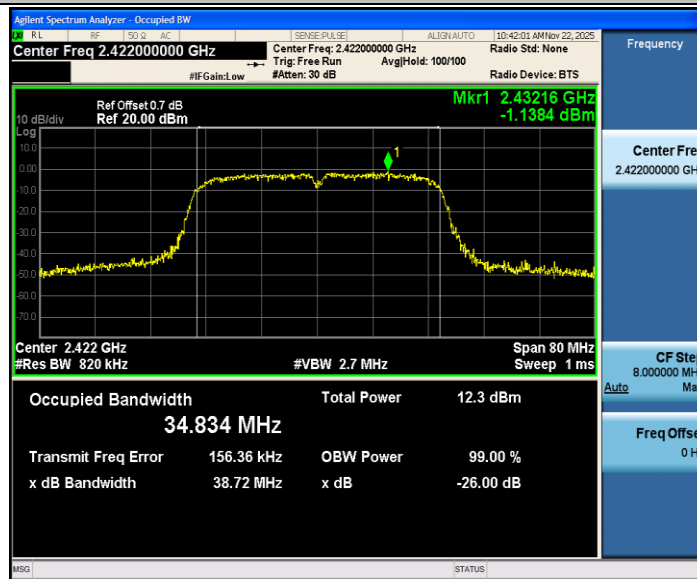
11AX20ISO_Ant1_2437



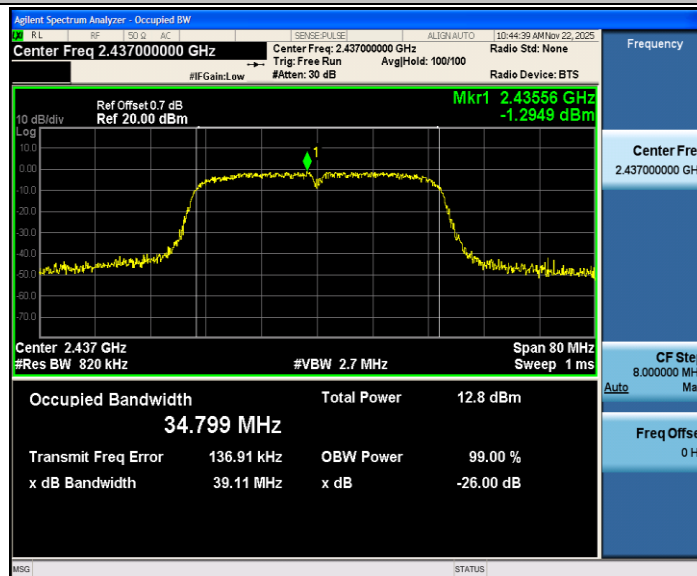
11AX20ISO_Ant1_2462



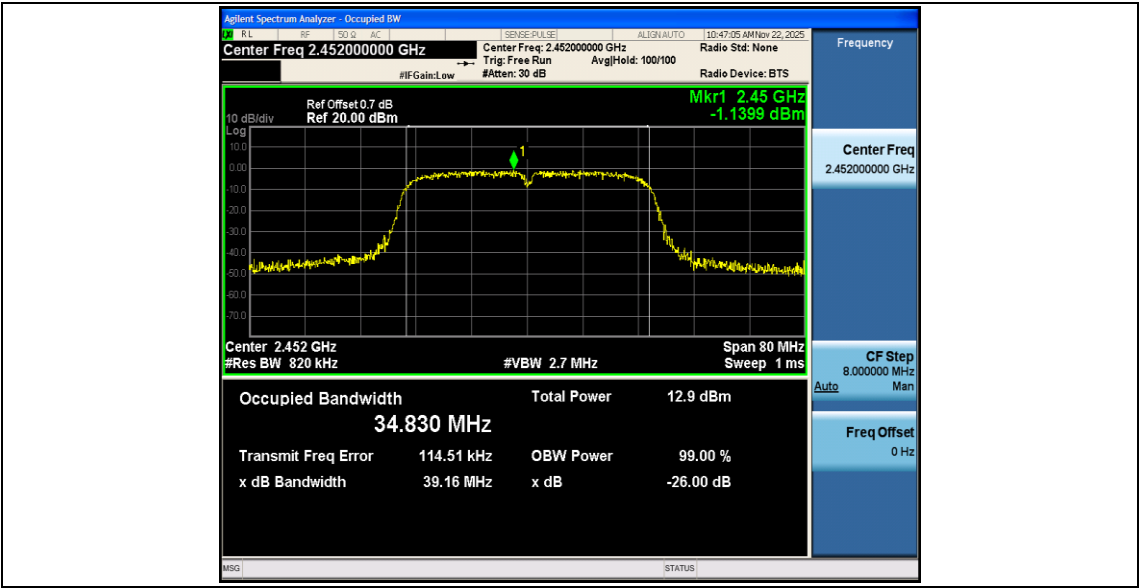
11AX40SISO_Ant1_2422



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	15.14	≤30.00	PASS
		2437	15.81	≤30.00	PASS
		2462	15.18	≤30.00	PASS
11G	Ant1	2412	13.14	≤30.00	PASS
		2437	13.93	≤30.00	PASS
		2462	14.15	≤30.00	PASS
11N20SISO	Ant1	2412	13.49	≤30.00	PASS
		2437	14.24	≤30.00	PASS
		2462	14.29	≤30.00	PASS
11N40SISO	Ant1	2422	12.70	≤30.00	PASS
		2437	12.96	≤30.00	PASS
		2452	13.20	≤30.00	PASS
11AX20SISO	Ant1	2412	13.36	≤30.00	PASS
		2437	14.15	≤30.00	PASS
		2462	14.31	≤30.00	PASS
11AX40SISO	Ant1	2422	12.71	≤30.00	PASS
		2437	12.98	≤30.00	PASS
		2452	13.17	≤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	-13.73	≤8.00	PASS
		2437	-13.15	≤8.00	PASS
		2462	-13.25	≤8.00	PASS
11G	Ant1	2412	-21.38	≤8.00	PASS
		2437	-20.49	≤8.00	PASS
		2462	-20.61	≤8.00	PASS
11N20SISO	Ant1	2412	-21.00	≤8.00	PASS
		2437	-20.15	≤8.00	PASS
		2462	-20.25	≤8.00	PASS
11N40SISO	Ant1	2422	-22.07	≤8.00	PASS
		2437	-22.62	≤8.00	PASS
		2452	-21.45	≤8.00	PASS
11AX20SISO	Ant1	2412	-21.08	≤8.00	PASS
		2437	-20.39	≤8.00	PASS
		2462	-20.13	≤8.00	PASS
11AX40SISO	Ant1	2422	-22.80	≤8.00	PASS
		2437	-21.44	≤8.00	PASS
		2452	-21.78	≤8.00	PASS

Test Graphs

11B_Ant1_2412



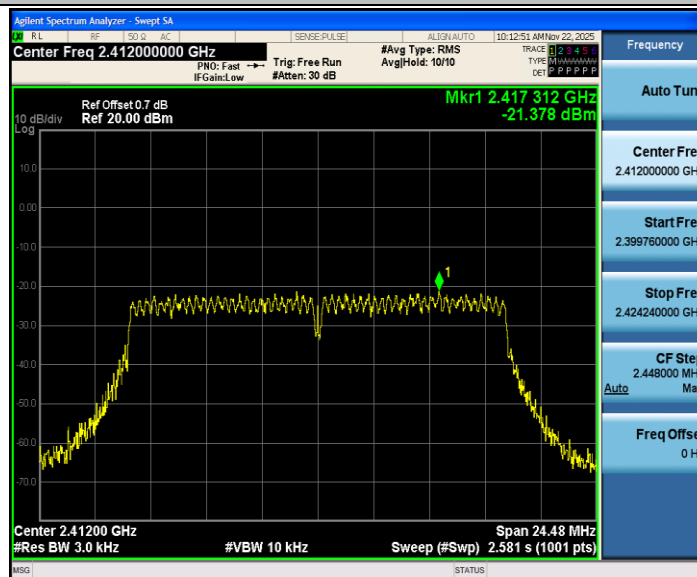
11B_Ant1_2437



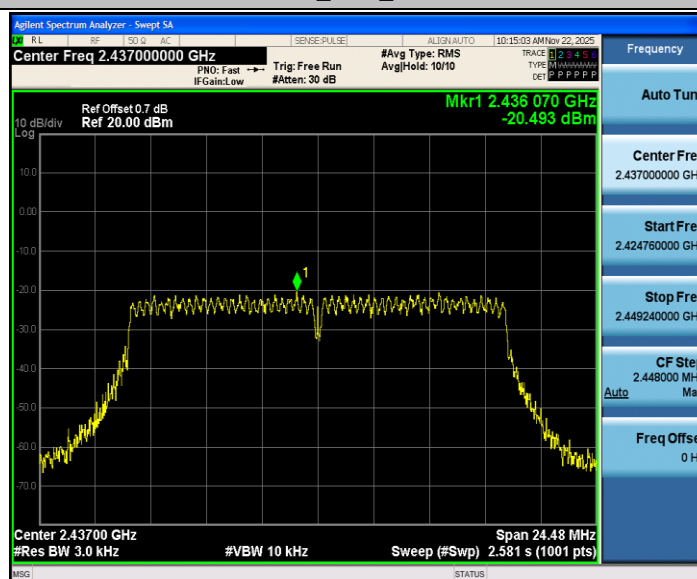
11B_Ant1_2462



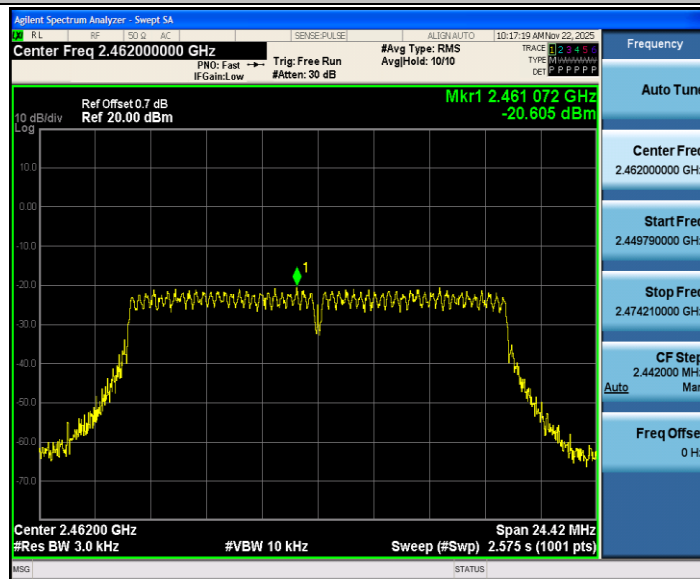
11G_Ant1_2412



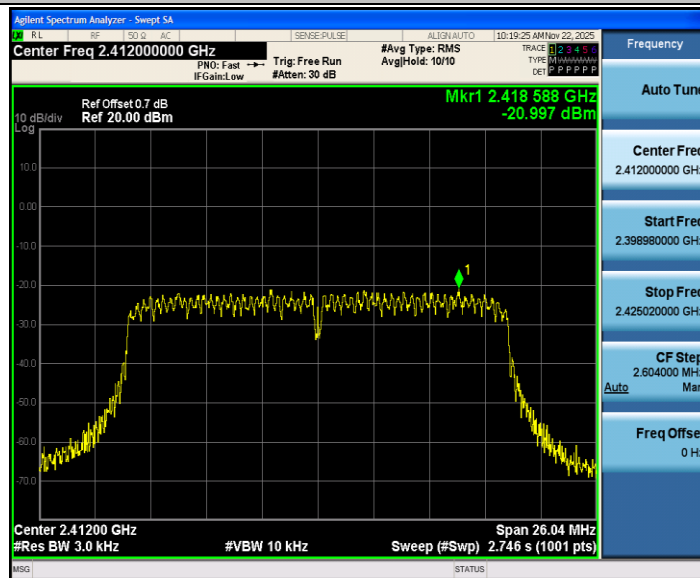
11G_Ant1_2437



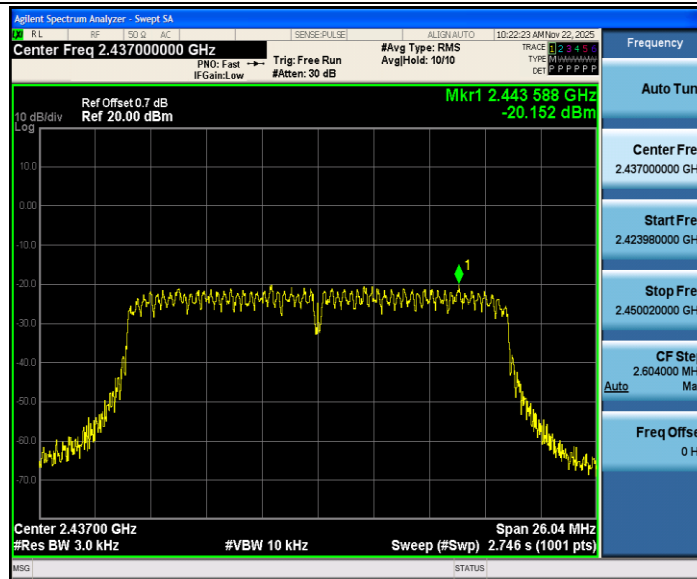
11G_Ant1_2462



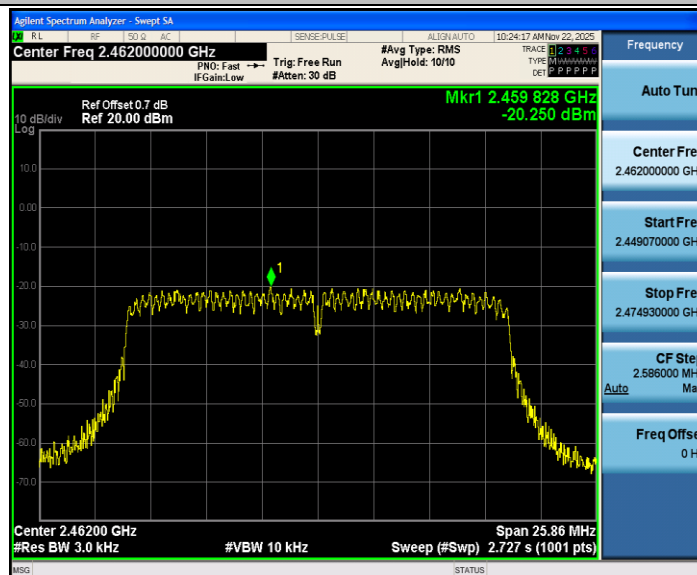
11N20SISO_Ant1_2412



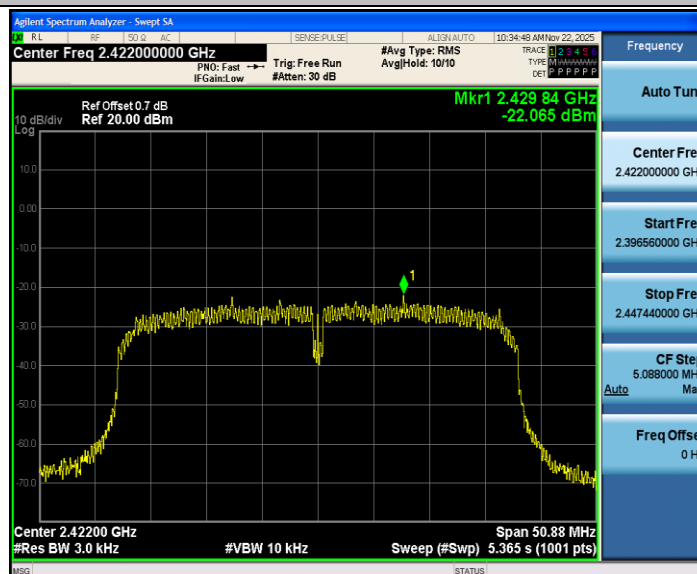
11N20SISO_Ant1_2437



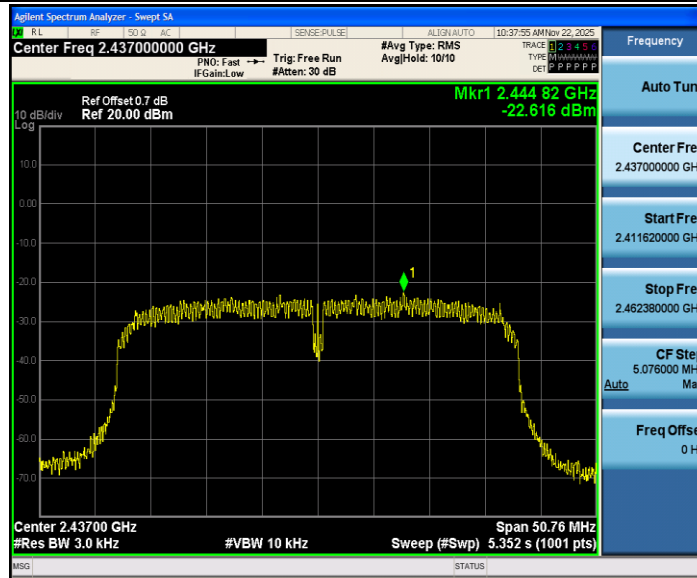
11N20SISO_Ant1_2462



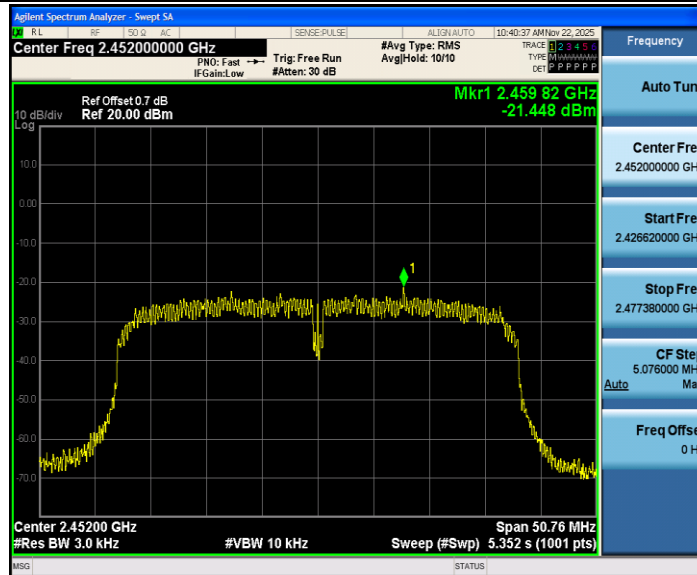
11N40SISO_Ant1_2422



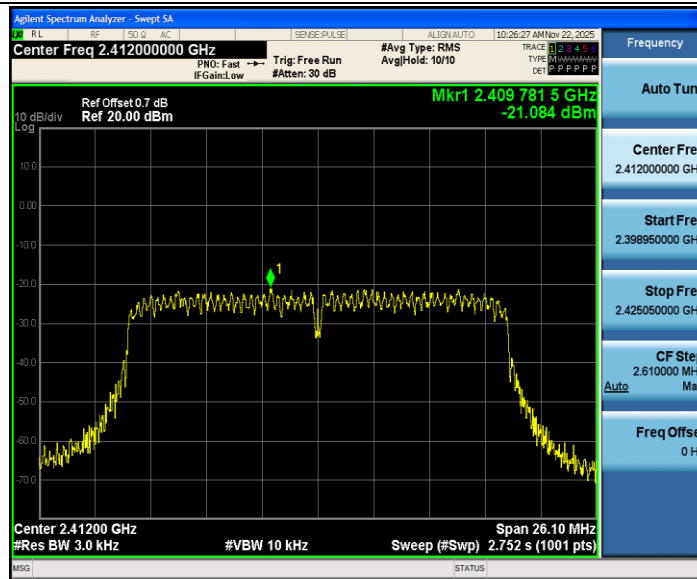
11N40SISO_Ant1_2437



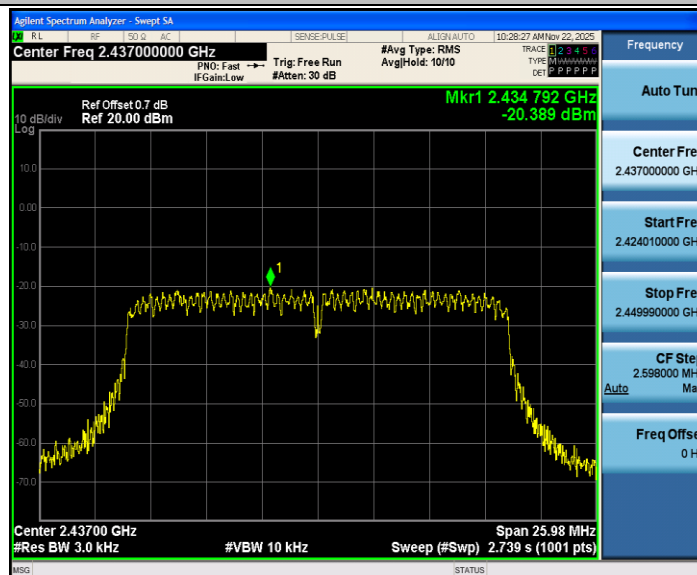
11N40SISO_Ant1_2452



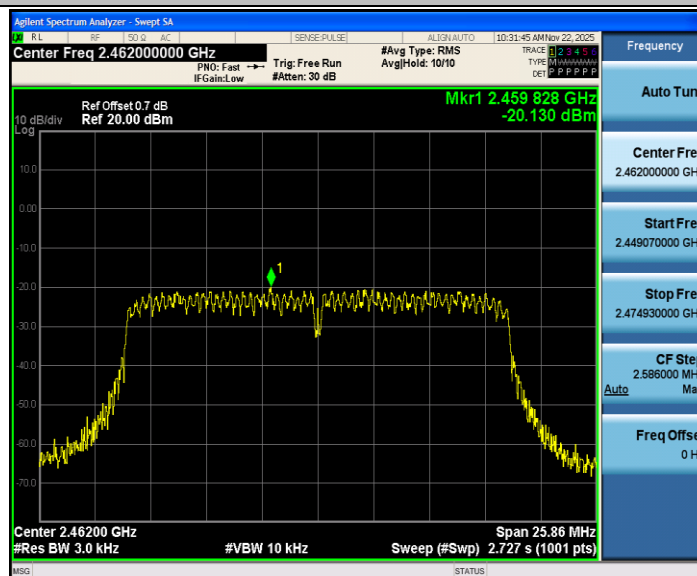
11AX20SISO_Ant1_2412



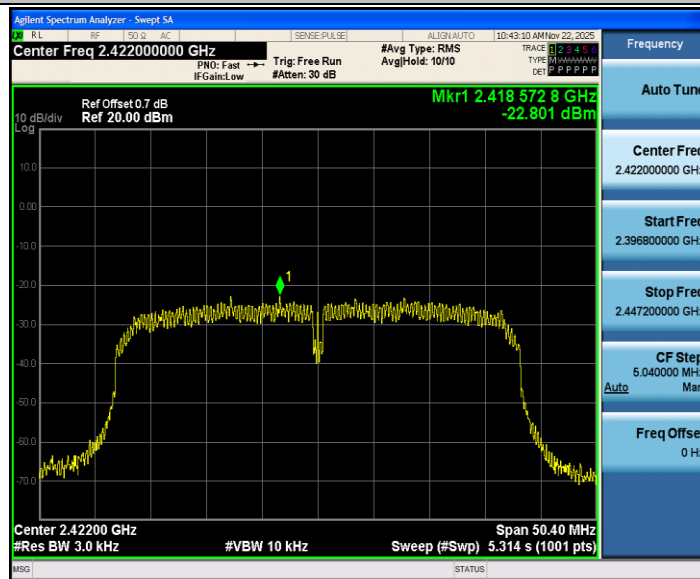
11AX20SISO_Ant1_2437



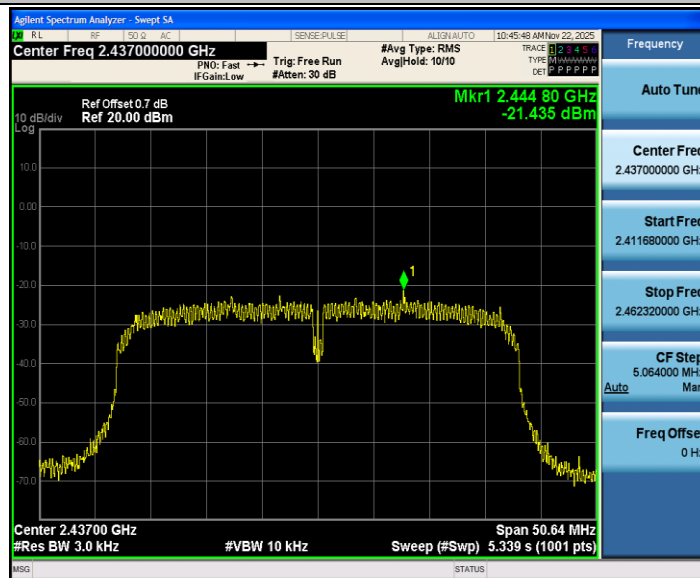
11AX20SISO_Ant1_2462



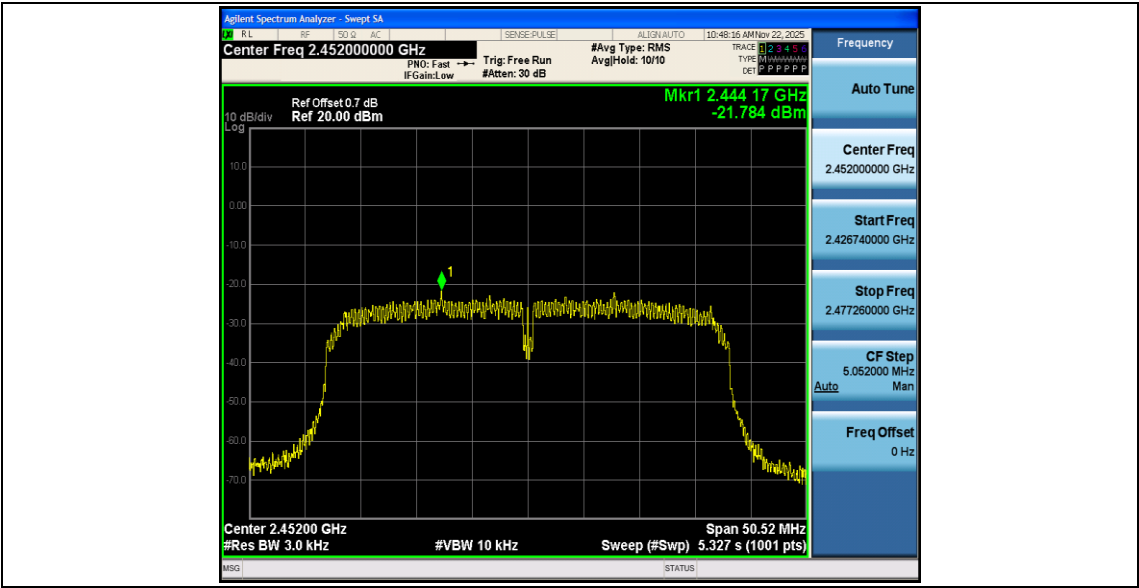
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



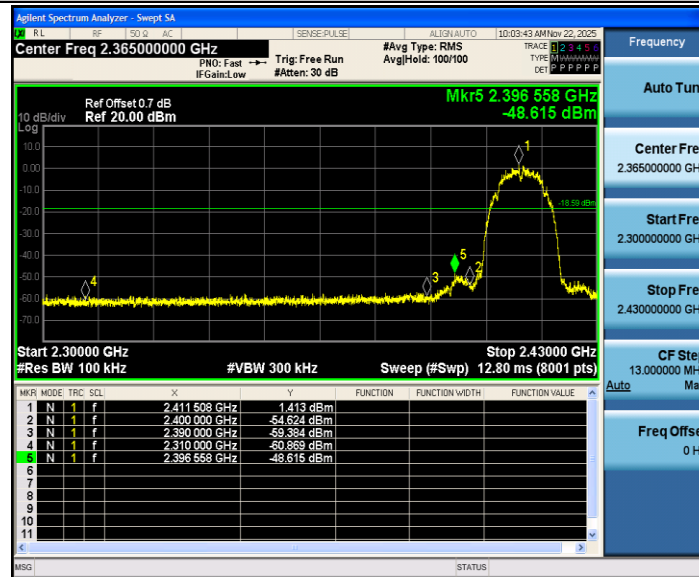
Appendix E: Band edge measurements

Test Result

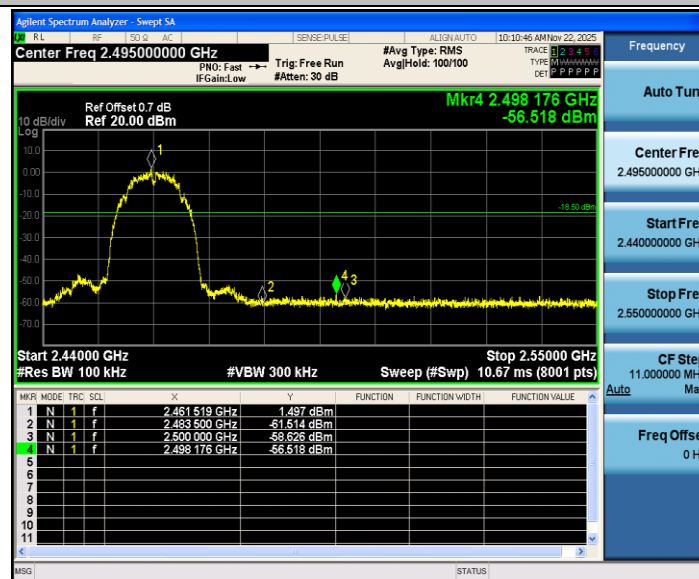
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.41	-48.62	≤-18.59	PASS
		High	2462	1.50	-56.52	≤-18.5	PASS
11G	Ant1	Low	2412	-7.43	-45.61	≤-27.43	PASS
		High	2462	-6.26	-50.05	≤-26.26	PASS
11N20SISO	Ant1	Low	2412	-7.63	-47.33	≤-27.63	PASS
		High	2462	-6.66	-52.51	≤-26.66	PASS
11N40SISO	Ant1	Low	2422	-10.25	-47.74	≤-30.25	PASS
		High	2452	-9.62	-53.01	≤-29.62	PASS
11AX20SISO	Ant1	Low	2412	-7.42	-45.53	≤-27.42	PASS
		High	2462	-6.29	-52.51	≤-26.29	PASS
11AX40SISO	Ant1	Low	2422	-10.09	-47.9	≤-30.09	PASS
		High	2452	-9.87	-54.09	≤-29.87	PASS

Test Graphs

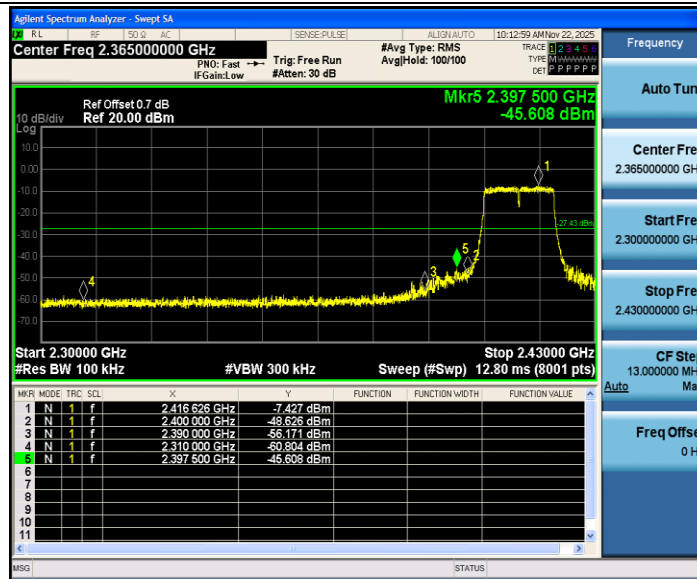
11B_Ant1_Low_2412



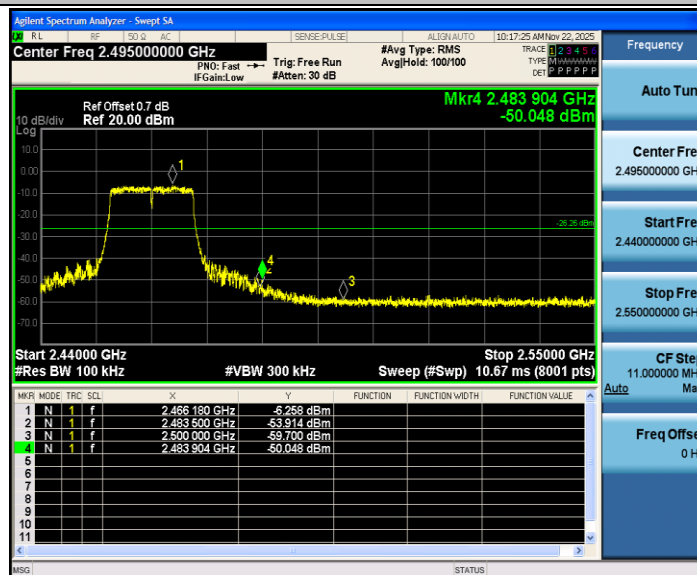
11B_Ant1_High_2462



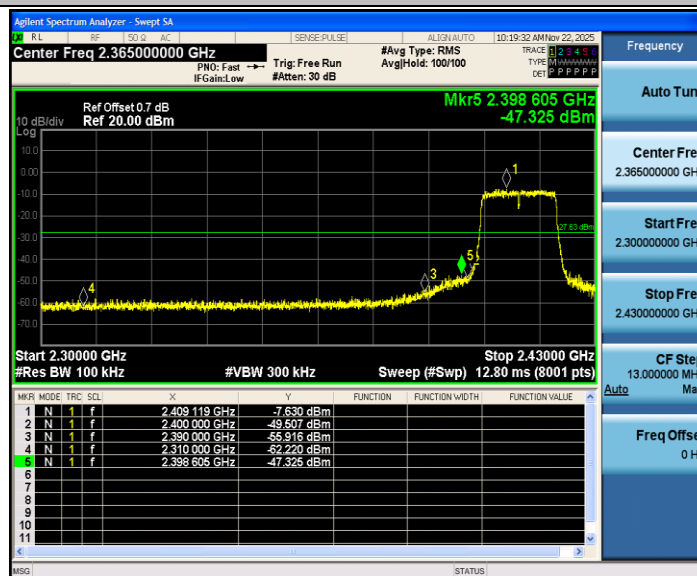
11G_Ant1_Low_2412



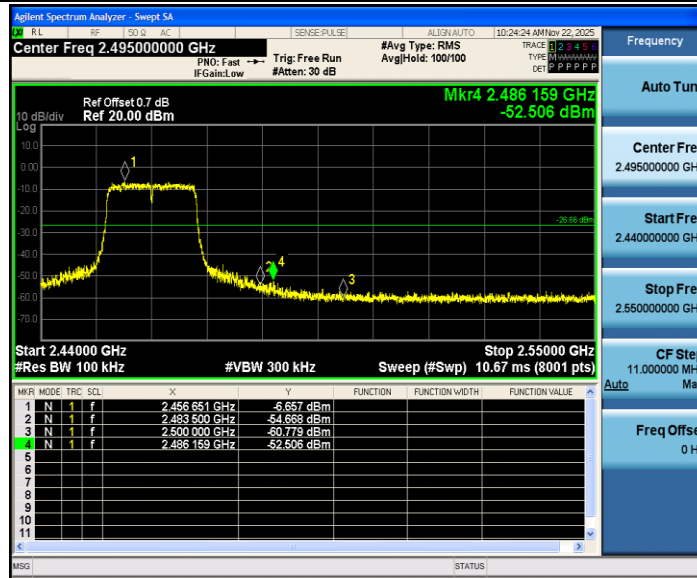
11G_Ant1_High_2462



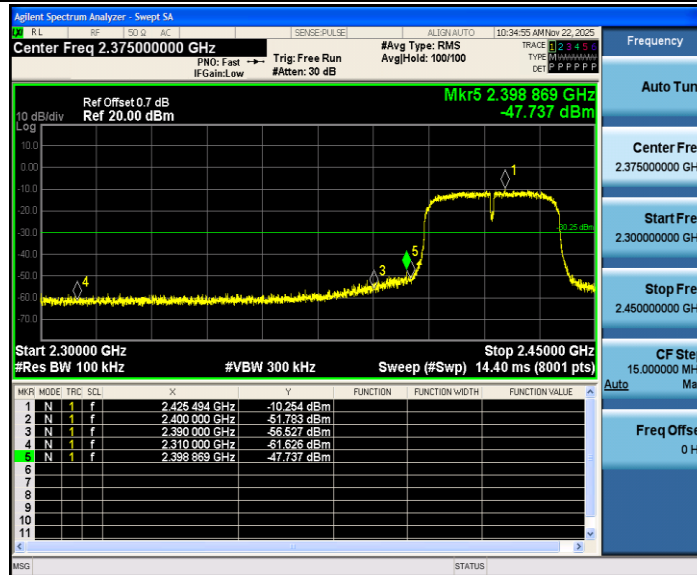
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452