

FCC Appendix RF Test Data

FCC ID : 2BMT5-U001

Company: : Shenzhen Chifeng Electronic Technology Co., Ltd.

EUT : Carplay

Model Number : U001

Report No. : CTA25041000502

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	9.600	2406.960	2416.560	0.5	PASS
		2437	9.000	2432.000	2441.000	0.5	PASS
		2462	9.480	2457.040	2466.520	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	15.920	2454.240	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.160	2404.440	2420.600	0.5	PASS
		2437	15.880	2429.440	2445.320	0.5	PASS
		2462	16.480	2454.040	2470.520	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.480	2440.160	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.200	2434.400	2469.600	0.5	PASS
11AX20SISO	Ant1	2412	16.080	2404.440	2420.520	0.5	PASS
		2437	15.640	2429.440	2445.080	0.5	PASS
		2462	16.440	2454.080	2470.520	0.5	PASS
11AX40SISO	Ant1	2422	35.520	2404.480	2440.000	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.200	2434.400	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



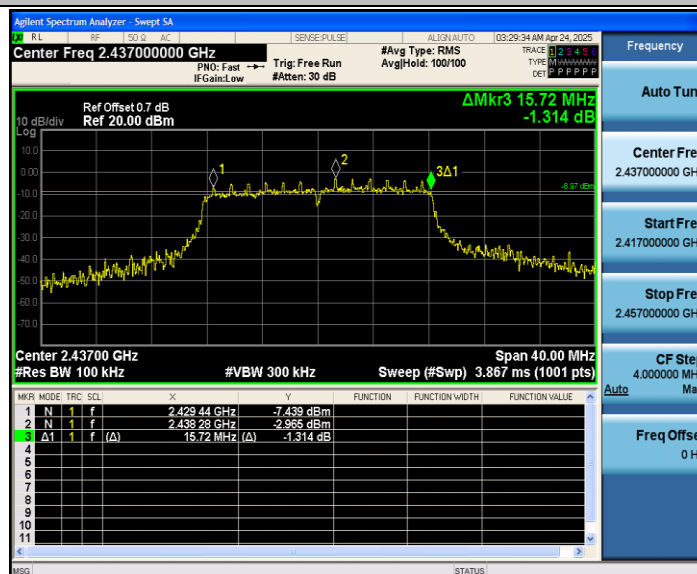
11B_Ant1_2462



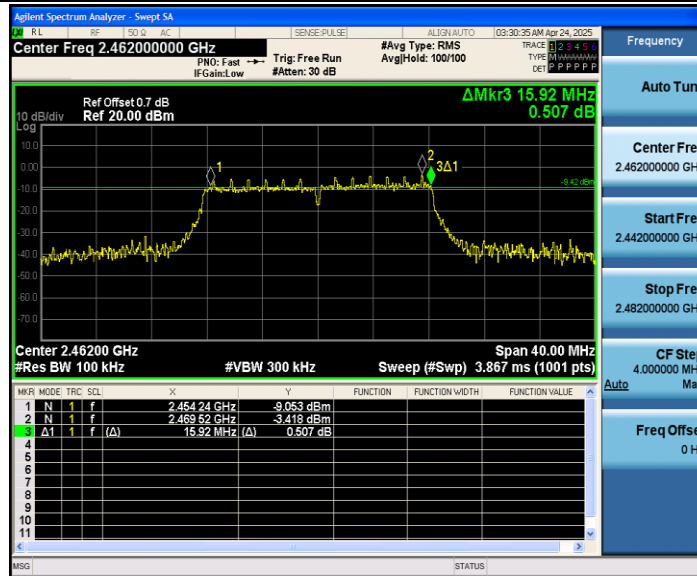
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



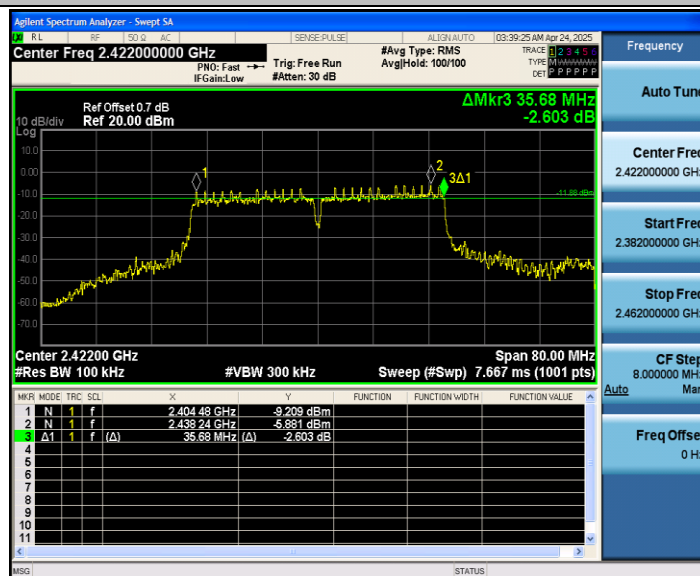
11N20SISO_Ant1_2437



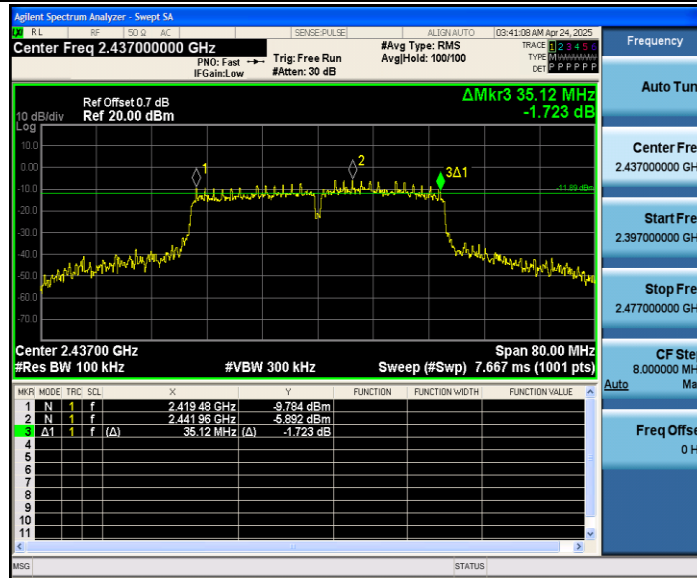
11N20SISO_Ant1_2462



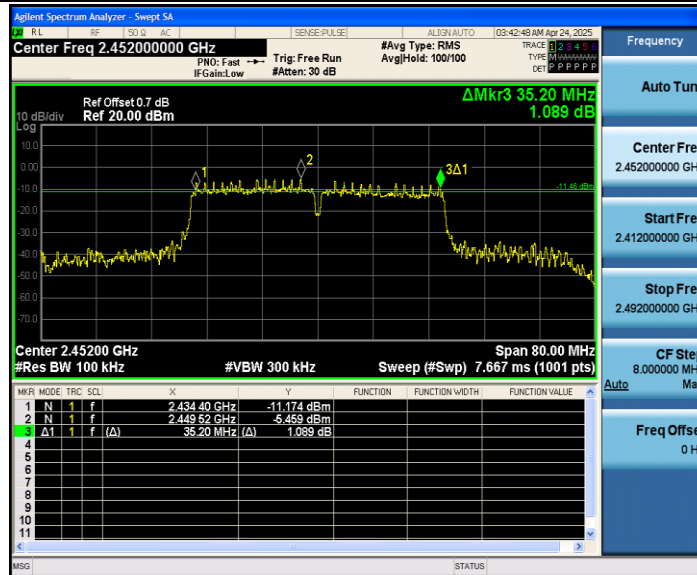
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



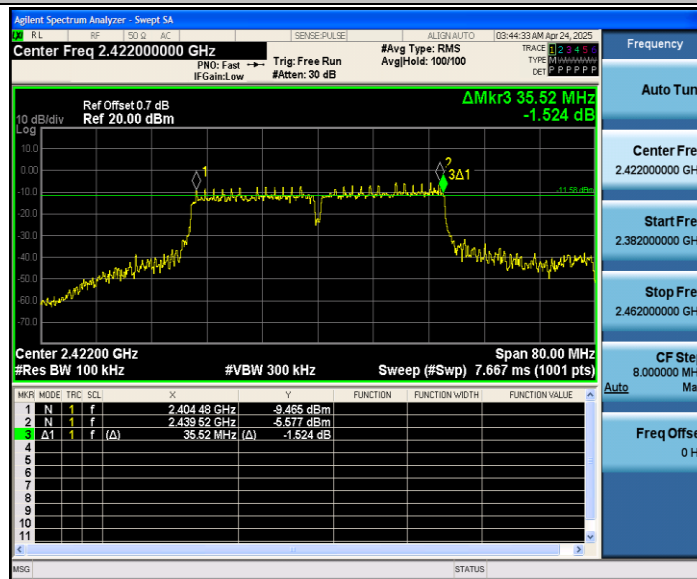
11AX20SISO_Ant1_2437



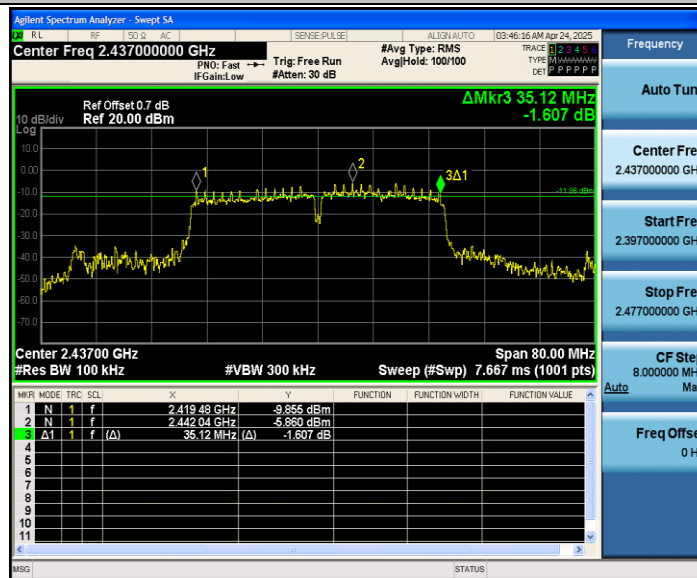
11AX20SISO_Ant1_2462



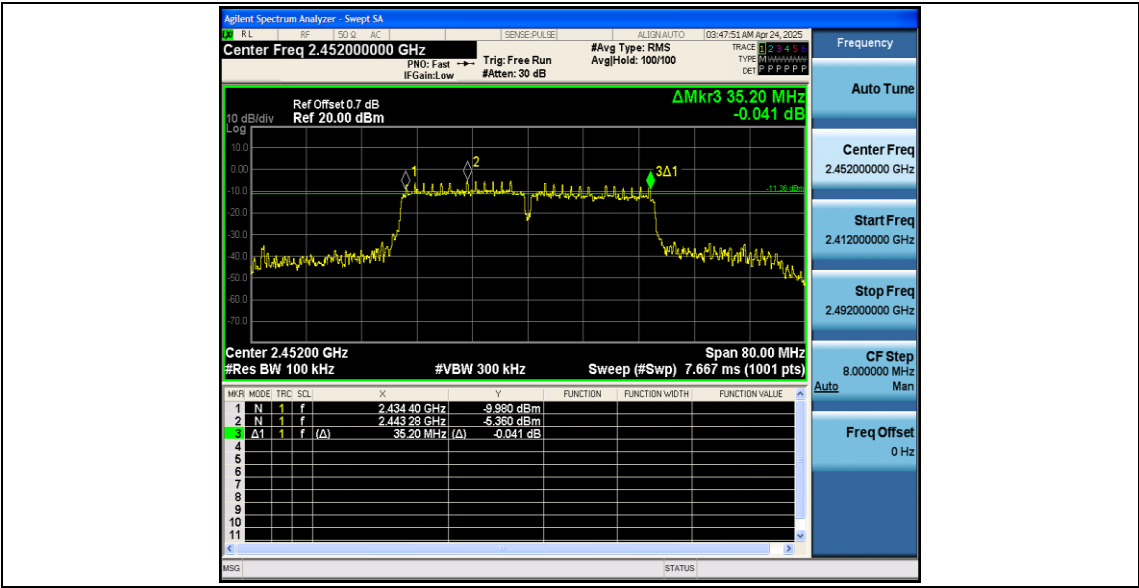
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



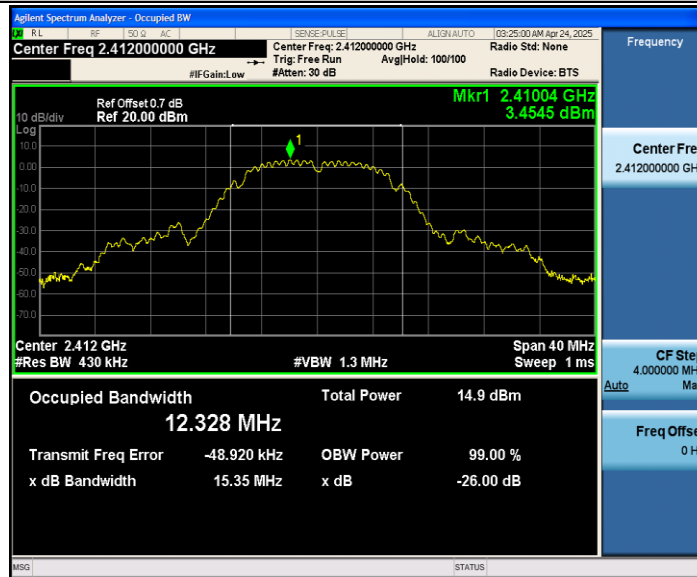
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.328	2405.7871	2418.1151	---	---
		2437	11.559	2431.0037	2442.5627	---	---
		2462	12.697	2455.4683	2468.1653	---	---
11G	Ant1	2412	16.758	2403.7756	2420.5336	---	---
		2437	16.655	2428.8330	2445.4880	---	---
		2462	16.853	2453.6528	2470.5058	---	---
11N20SISO	Ant1	2412	17.784	2403.2979	2421.0819	---	---
		2437	17.662	2428.3006	2445.9626	---	---
		2462	17.998	2453.1192	2471.1172	---	---
11N40SISO	Ant1	2422	36.331	2404.1409	2440.4719	---	---
		2437	35.949	2419.1305	2455.0795	---	---
		2452	36.324	2433.9267	2470.2507	---	---
11AX20SISO	Ant1	2412	17.935	2403.2647	2421.1997	---	---
		2437	17.573	2428.3432	2445.9162	---	---
		2462	18.010	2453.1179	2471.1279	---	---
11AX40SISO	Ant1	2422	36.360	2404.0961	2440.4561	---	---
		2437	35.949	2419.1078	2455.0568	---	---
		2452	36.339	2433.8879	2470.2269	---	---

Test Graphs

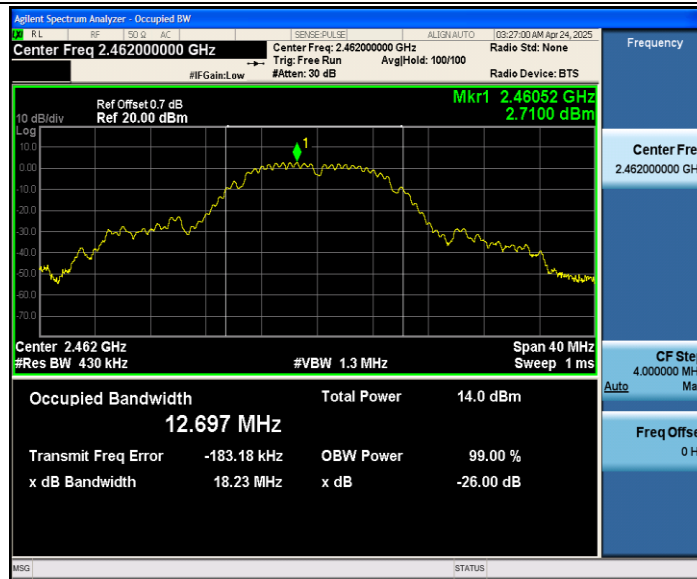
11B_Ant1_2412



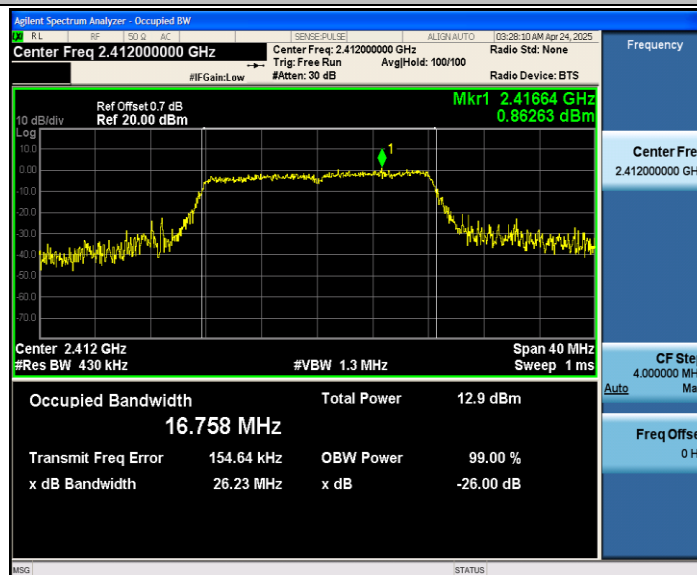
11B_Ant1_2437



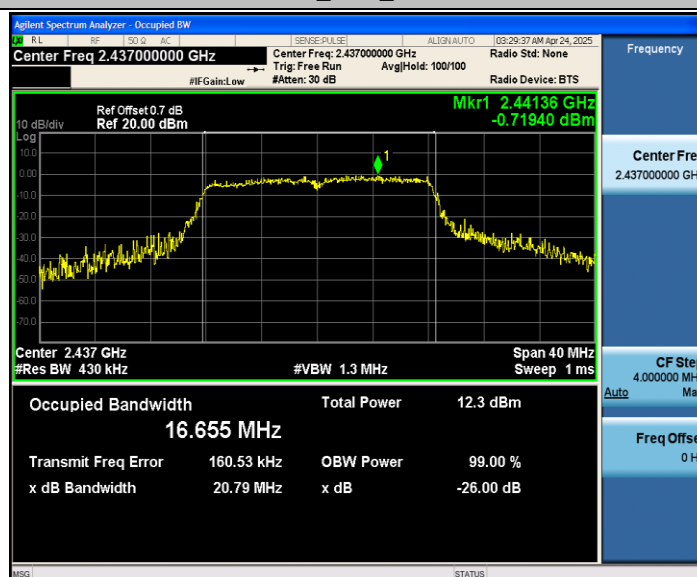
11B_Ant1_2462



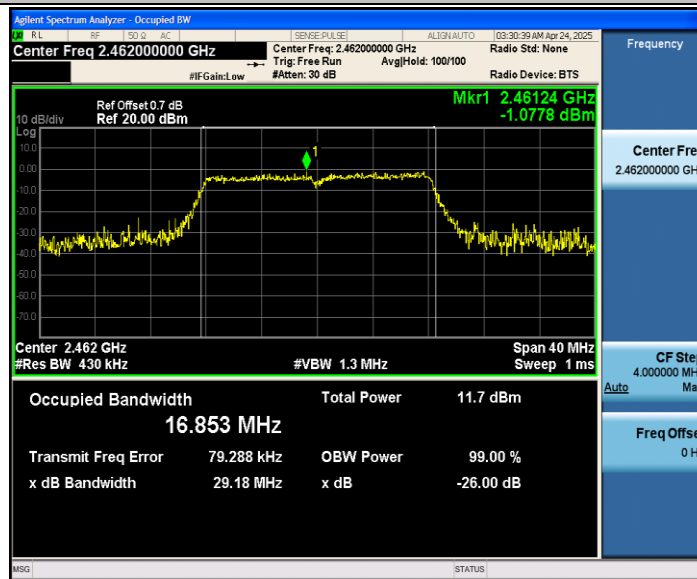
11G_Ant1_2412



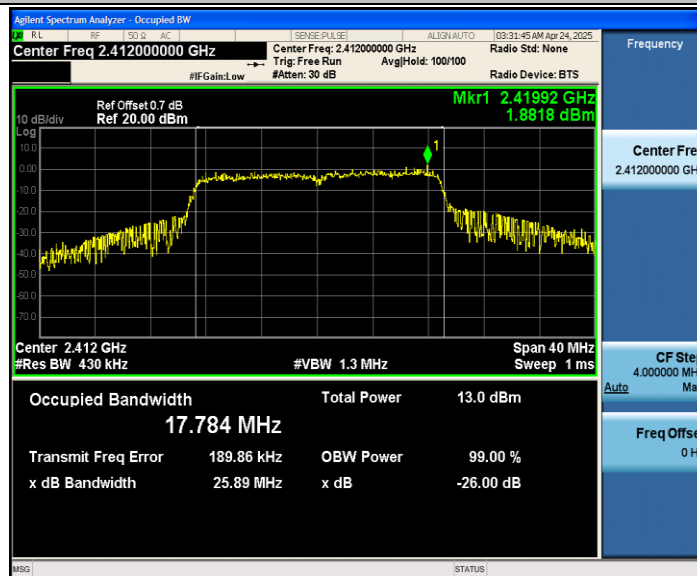
11G_Ant1_2437



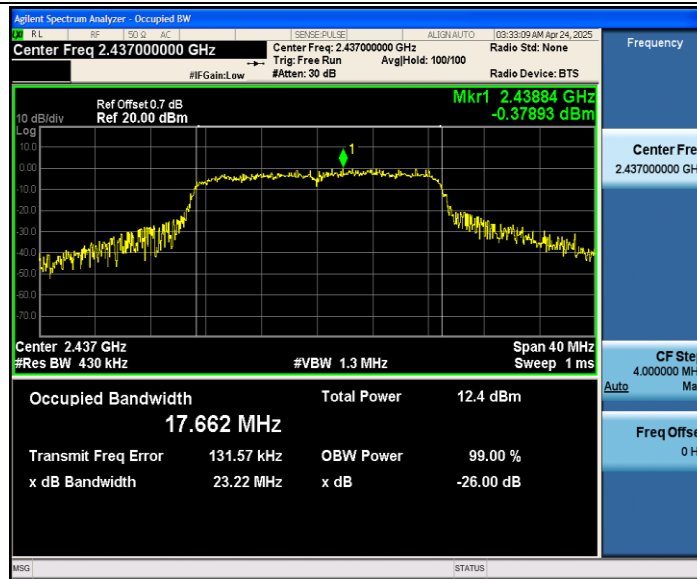
11G_Ant1_2462



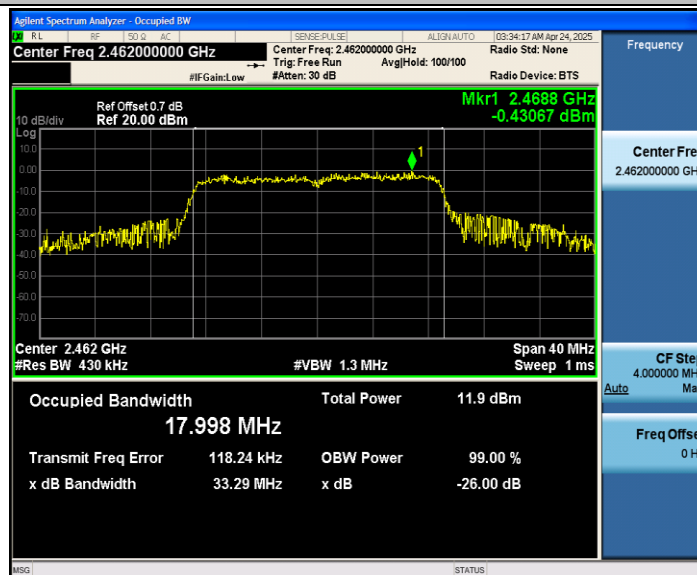
11N20SISO_Ant1_2412



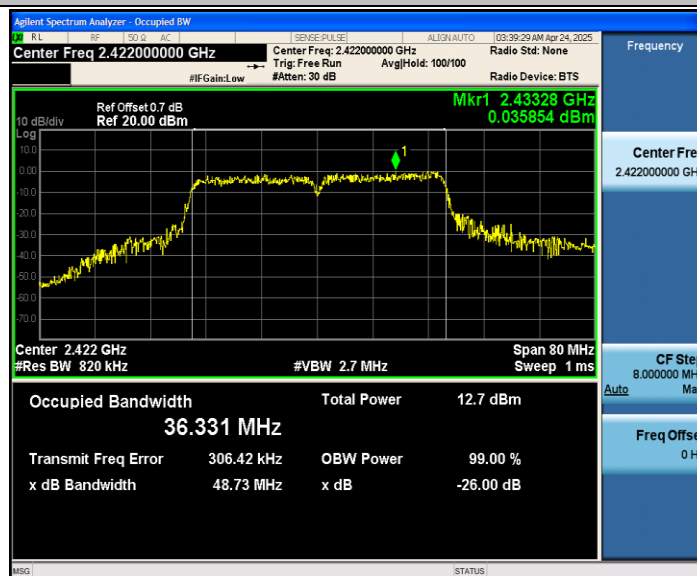
11N20SISO_Ant1_2437



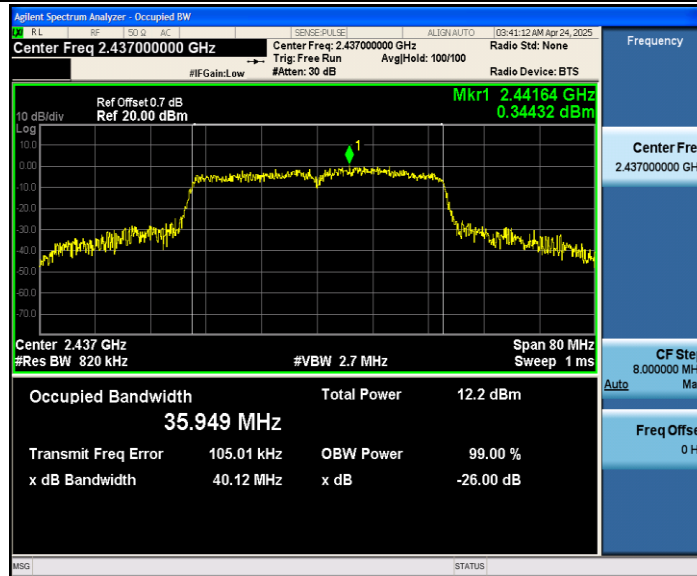
11N20SISO_Ant1_2462



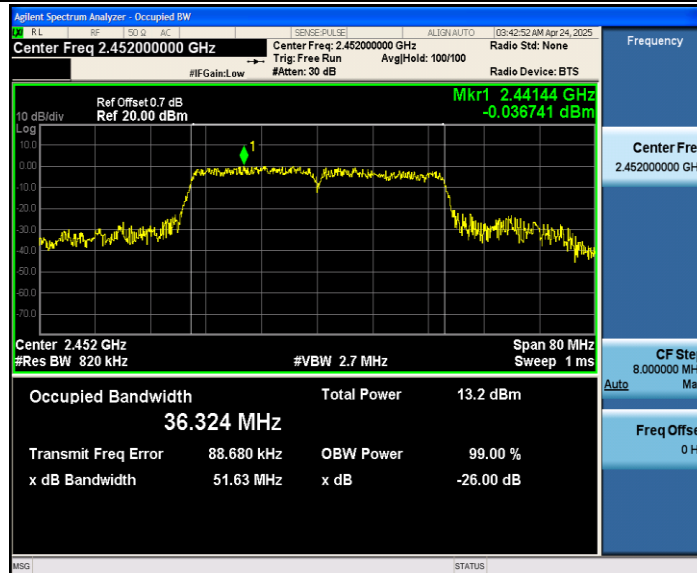
11N40SISO_Ant1_2422



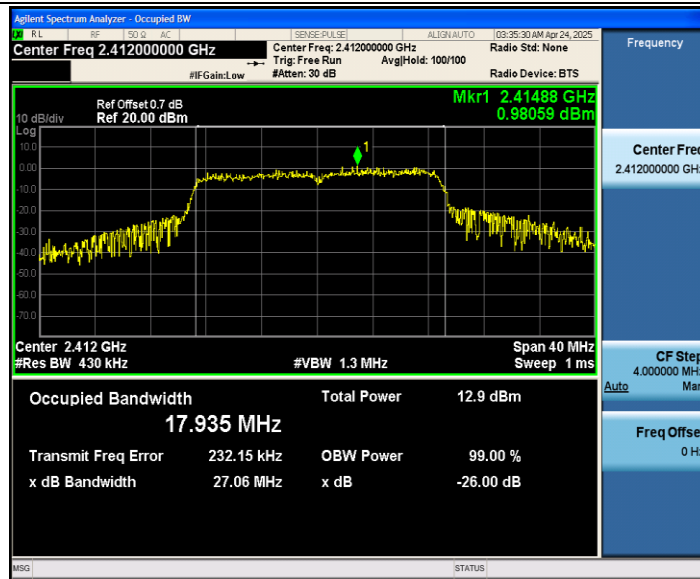
11N40SISO_Ant1_2437



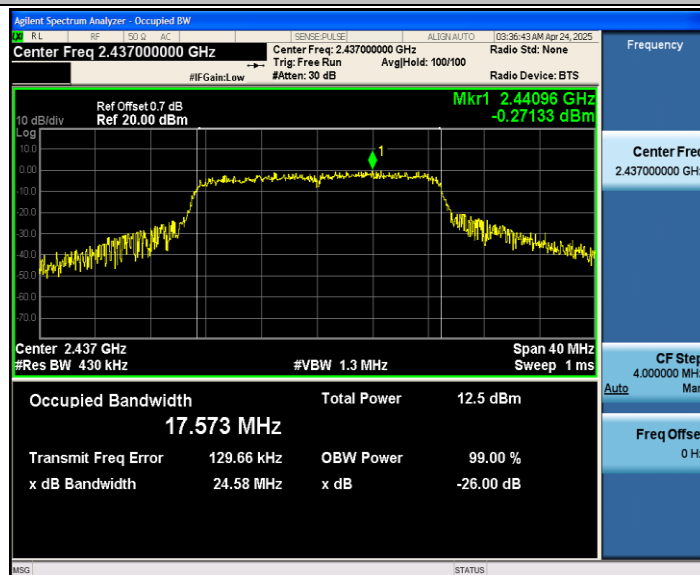
11N40SISO_Ant1_2452



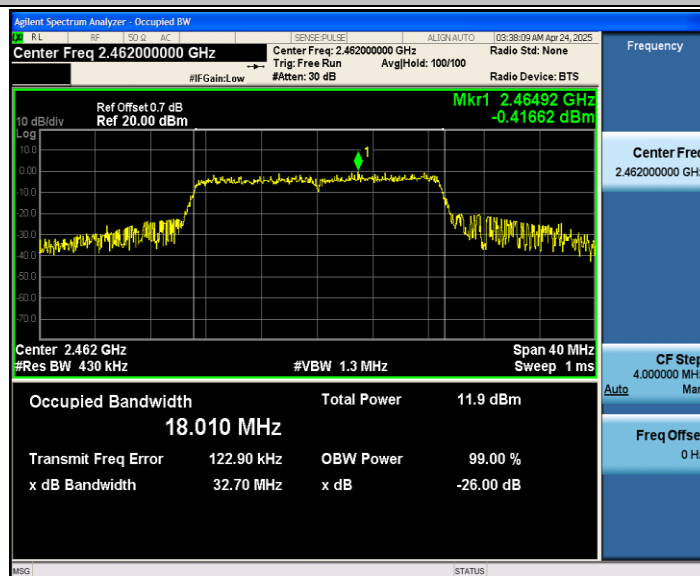
11AX20SISO_Ant1_2412



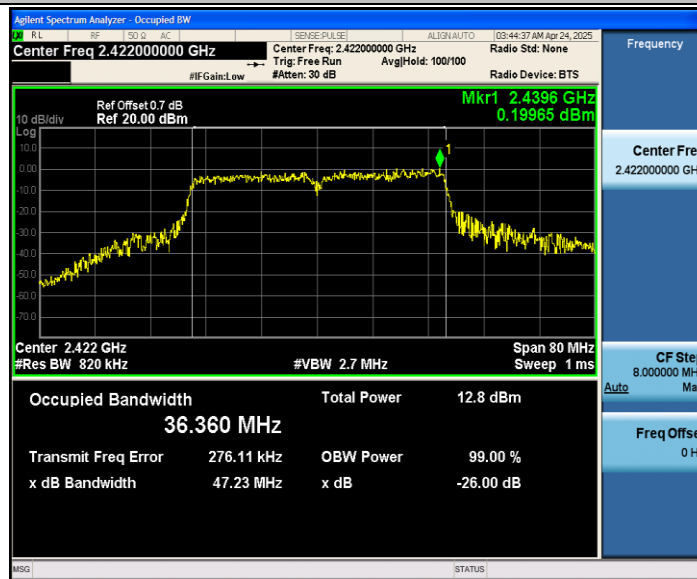
11AX20SISO_Ant1_2437



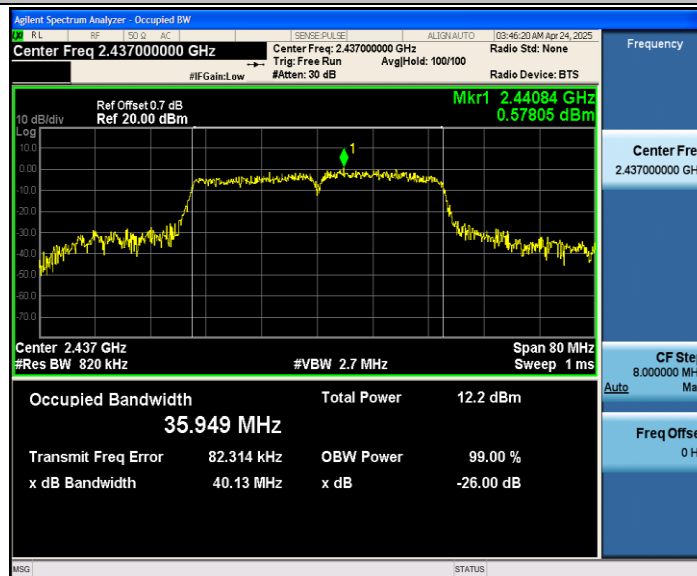
11AX20SISO_Ant1_2462



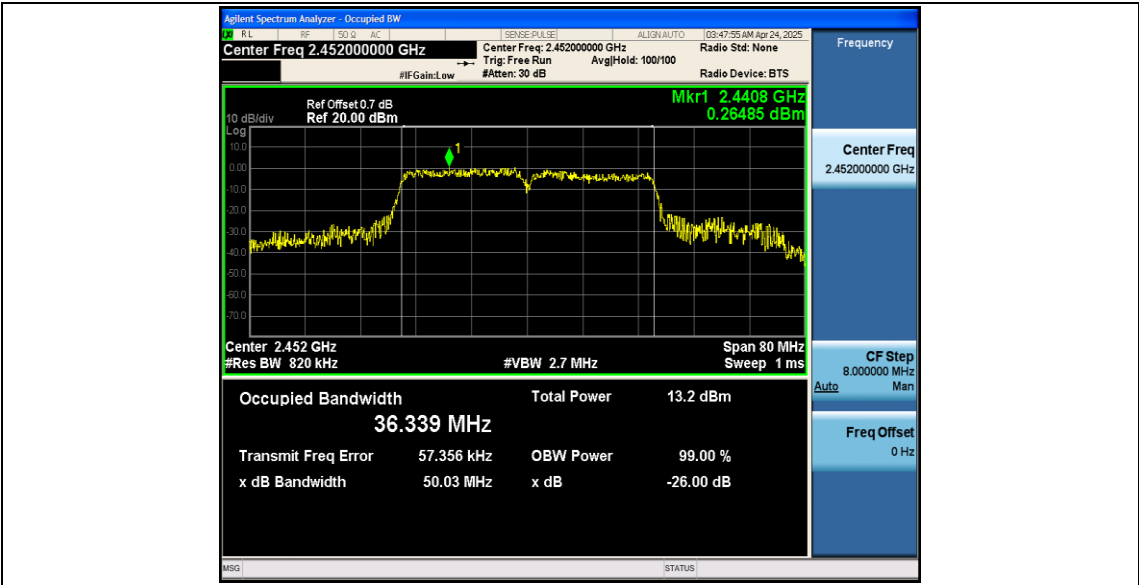
11AX40SISO_Ant1_2422



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	14.77	≤30.00	PASS
		2437	13.60	≤30.00	PASS
		2462	13.87	≤30.00	PASS
11G	Ant1	2412	13.55	≤30.00	PASS
		2437	12.99	≤30.00	PASS
		2462	12.57	≤30.00	PASS
11N20SISO	Ant1	2412	13.50	≤30.00	PASS
		2437	12.92	≤30.00	PASS
		2462	12.46	≤30.00	PASS
11N40SISO	Ant1	2422	12.86	≤30.00	PASS
		2437	12.27	≤30.00	PASS
		2452	13.33	≤30.00	PASS
11AX20SISO	Ant1	2412	13.50	≤30.00	PASS
		2437	13.03	≤30.00	PASS
		2462	12.50	≤30.00	PASS
11AX40SISO	Ant1	2422	12.93	≤30.00	PASS
		2437	12.37	≤30.00	PASS
		2452	13.33	≤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	-10.96	≤8.00	PASS
		2437	-11.30	≤8.00	PASS
		2462	-11.88	≤8.00	PASS
11G	Ant1	2412	-18.54	≤8.00	PASS
		2437	-18.60	≤8.00	PASS
		2462	-18.56	≤8.00	PASS
11N20SISO	Ant1	2412	-18.63	≤8.00	PASS
		2437	-18.73	≤8.00	PASS
		2462	-19.85	≤8.00	PASS
11N40SISO	Ant1	2422	-20.76	≤8.00	PASS
		2437	-22.60	≤8.00	PASS
		2452	-21.04	≤8.00	PASS
11AX20SISO	Ant1	2412	-18.68	≤8.00	PASS
		2437	-19.20	≤8.00	PASS
		2462	-18.51	≤8.00	PASS
11AX40SISO	Ant1	2422	-21.85	≤8.00	PASS
		2437	-21.29	≤8.00	PASS
		2452	-21.38	≤8.00	PASS

Test Graphs

11B_Ant1_2412



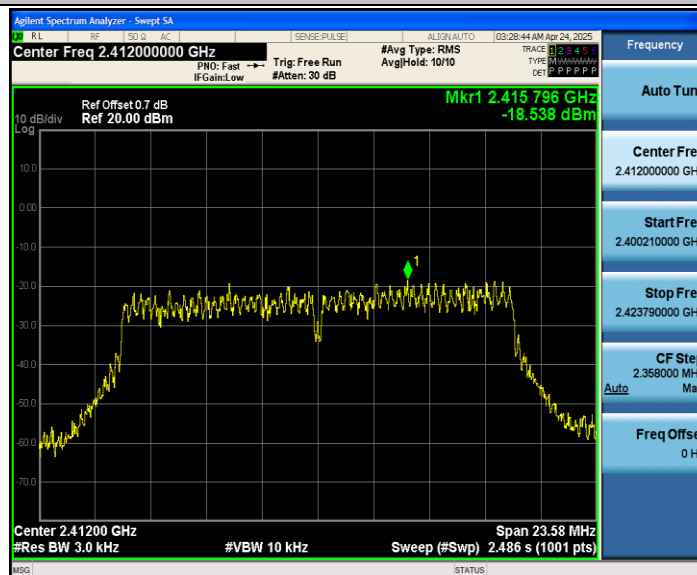
11B_Ant1_2437



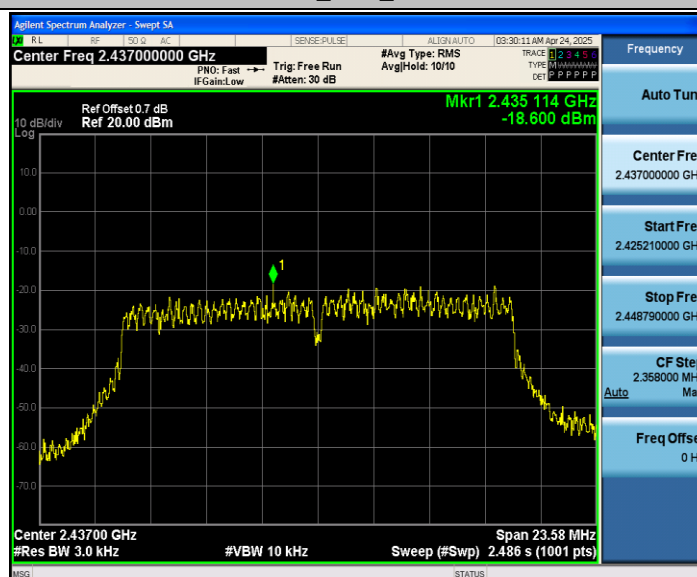
11B_Ant1_2462



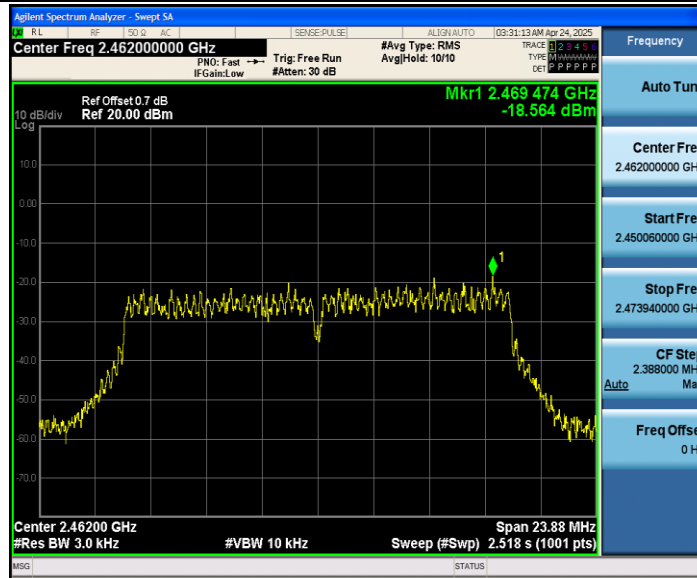
11G_Ant1_2412



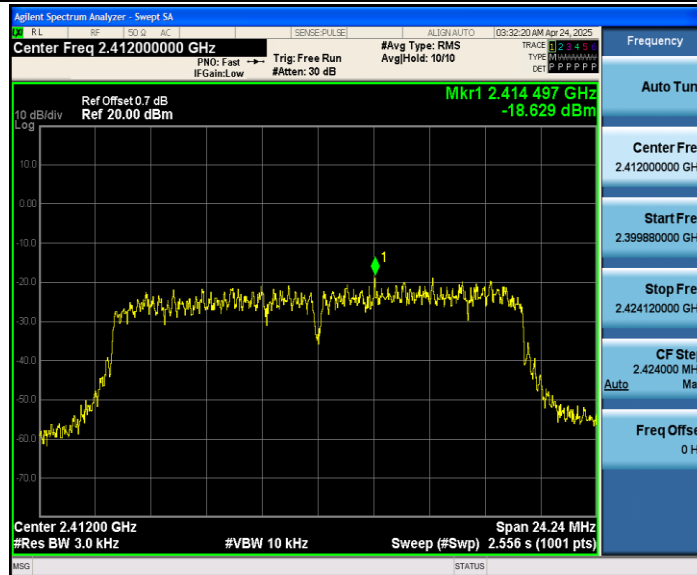
11G_Ant1_2437



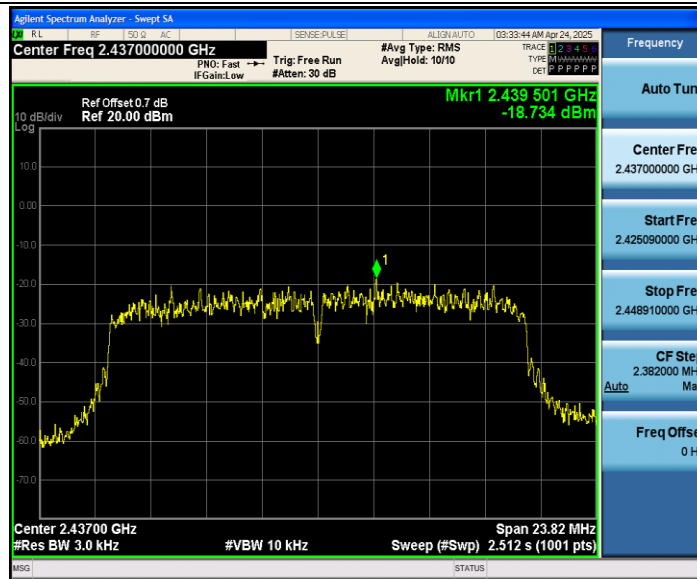
11G_Ant1_2462



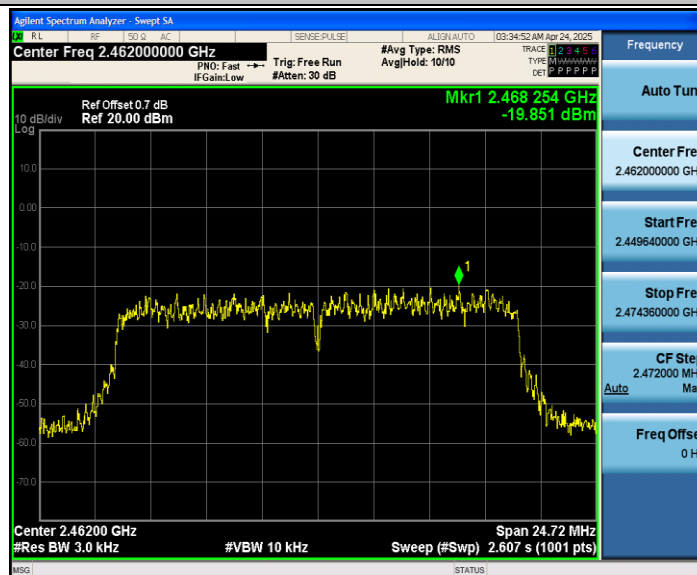
11N20SISO_Ant1_2412



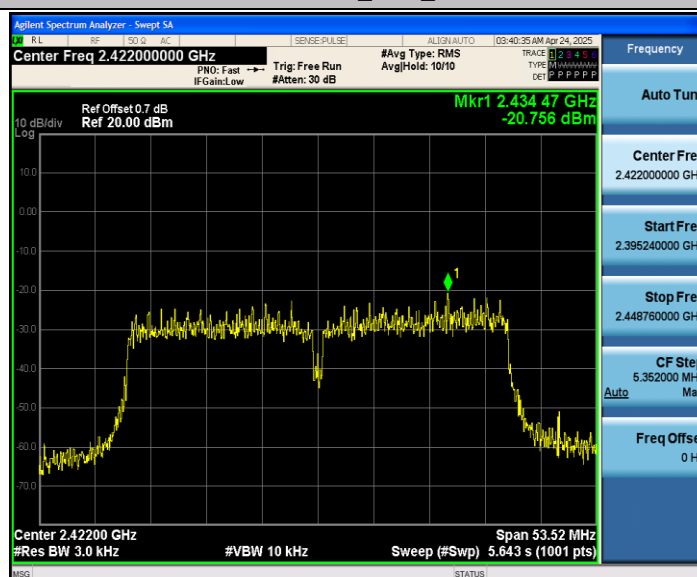
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



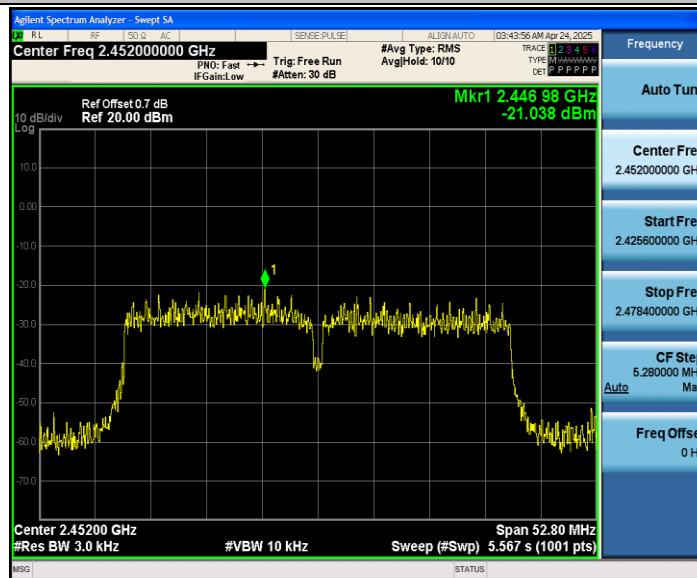
11N40SISO_Ant1_2422



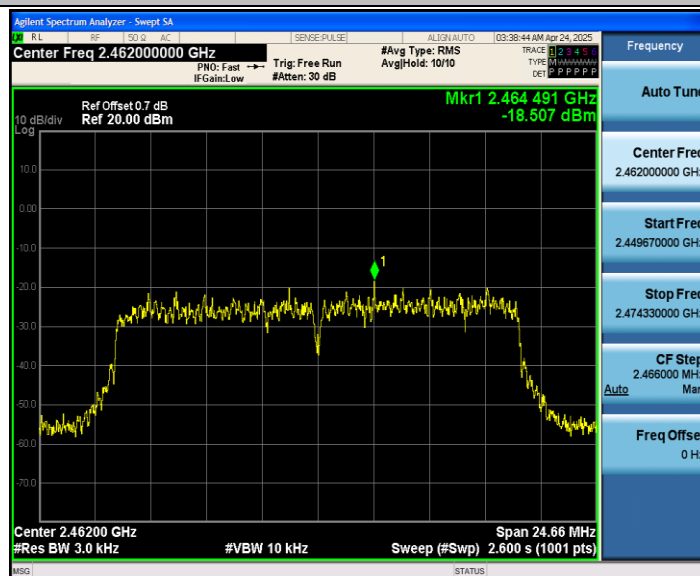
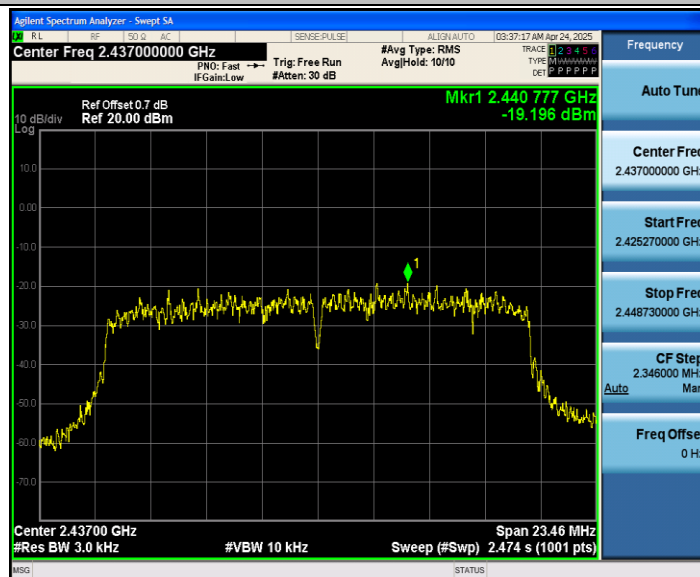
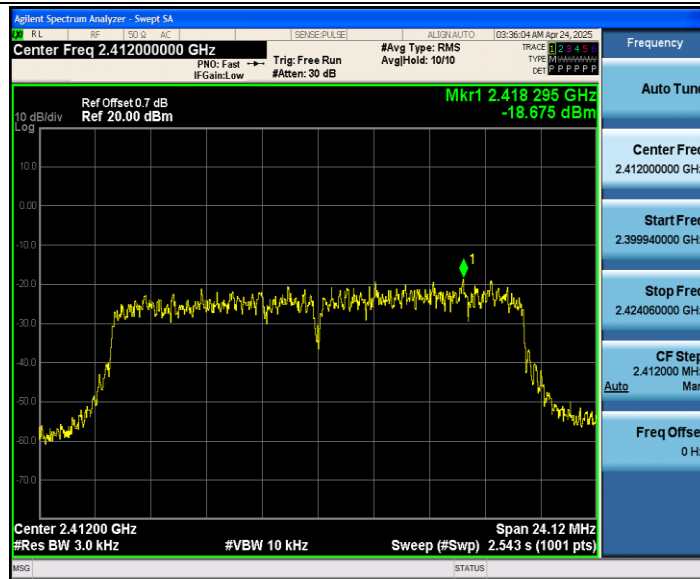
11N40SISO_Ant1_2437



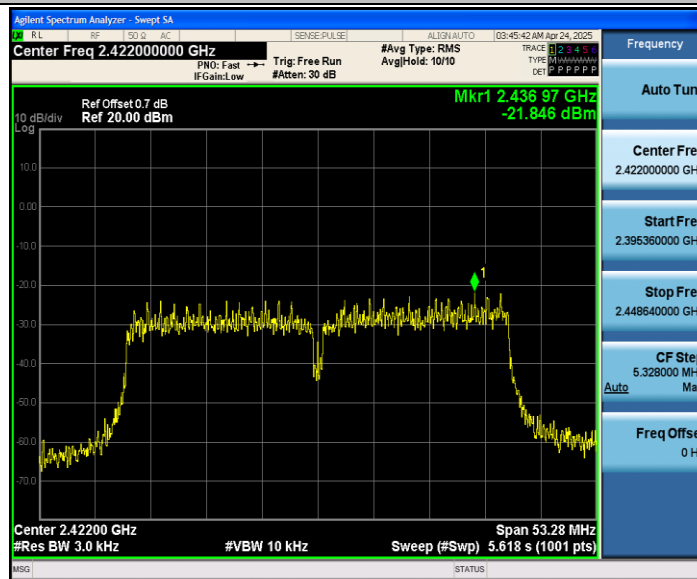
11N40SISO_Ant1_2452



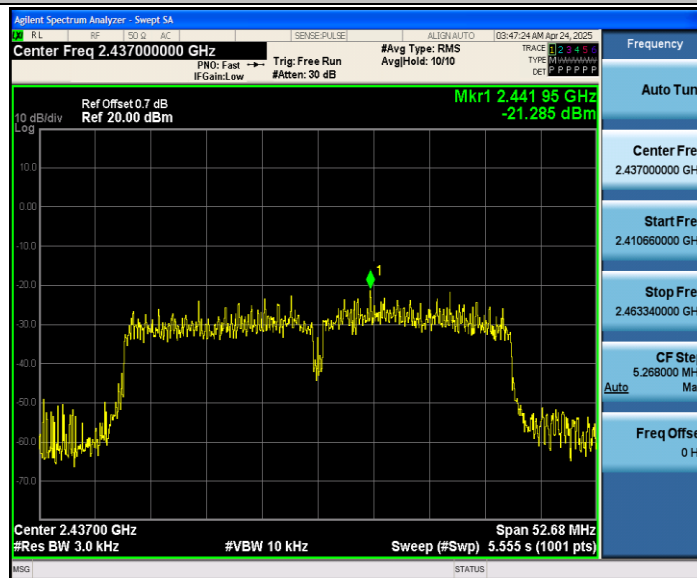
11AX20SISO_Ant1_2412



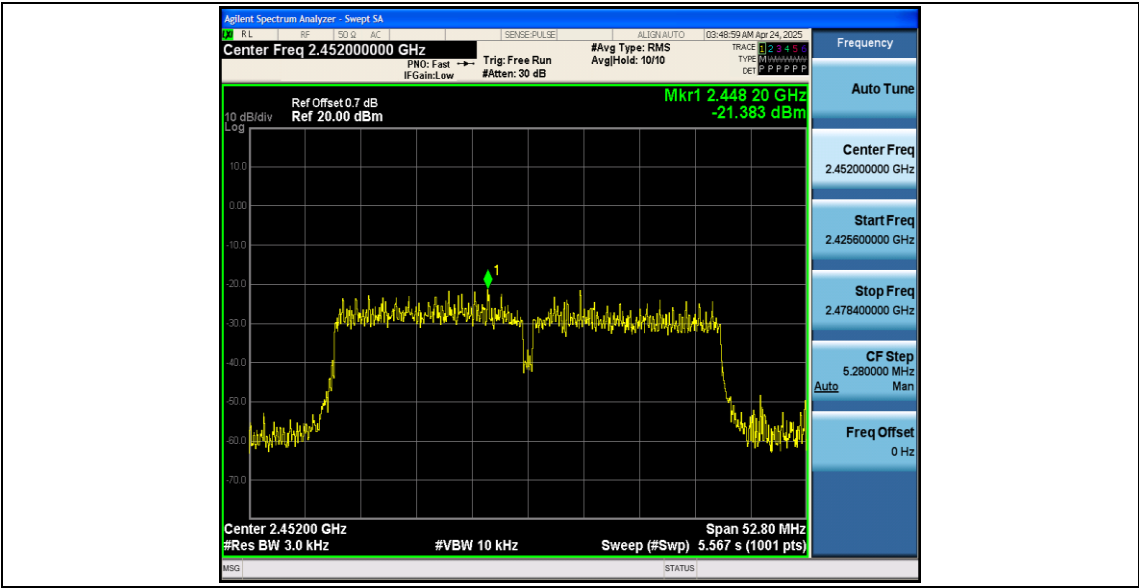
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



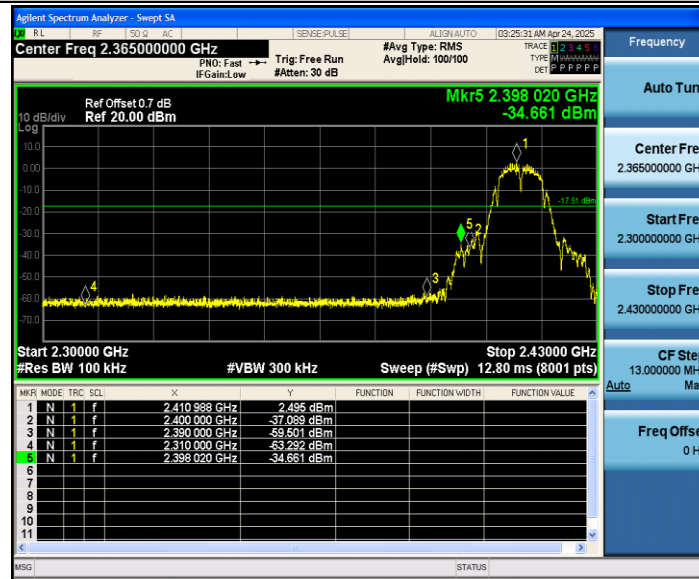
Appendix E: Band edge measurements

Test Result

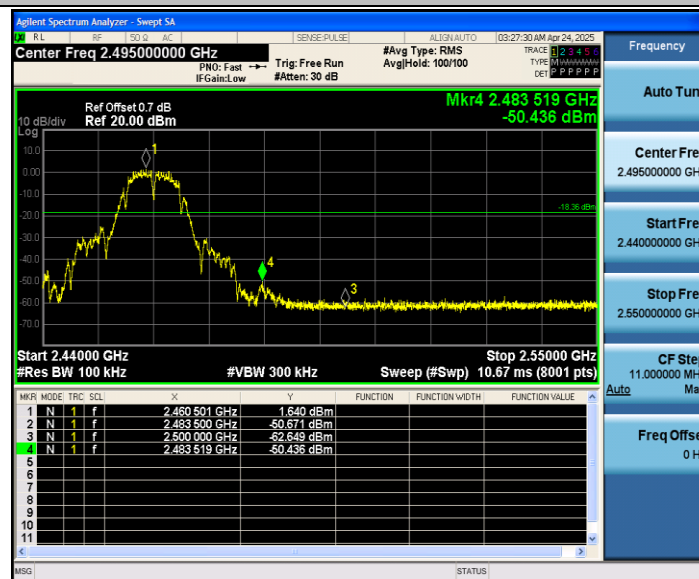
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.50	-34.66	≤-17.51	PASS
		High	2462	1.64	-50.44	≤-18.36	PASS
11G	Ant1	Low	2412	-2.12	-36.39	≤-22.12	PASS
		High	2462	-3.40	-38.59	≤-23.4	PASS
11N20SISO	Ant1	Low	2412	-2.18	-35.97	≤-22.18	PASS
		High	2462	-3.34	-37.77	≤-23.34	PASS
11N40SISO	Ant1	Low	2422	-5.67	-38.52	≤-25.67	PASS
		High	2452	-5.49	-36.44	≤-25.49	PASS
11AX20SISO	Ant1	Low	2412	-2.25	-35.92	≤-22.25	PASS
		High	2462	-3.40	-40.79	≤-23.4	PASS
11AX40SISO	Ant1	Low	2422	-5.58	-38.97	≤-25.58	PASS
		High	2452	-5.47	-36.49	≤-25.47	PASS

Test Graphs

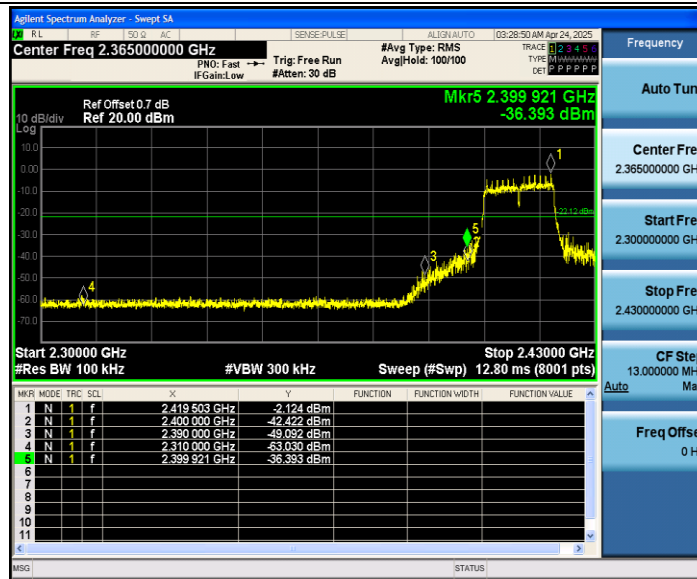
11B_Ant1_Low_2412



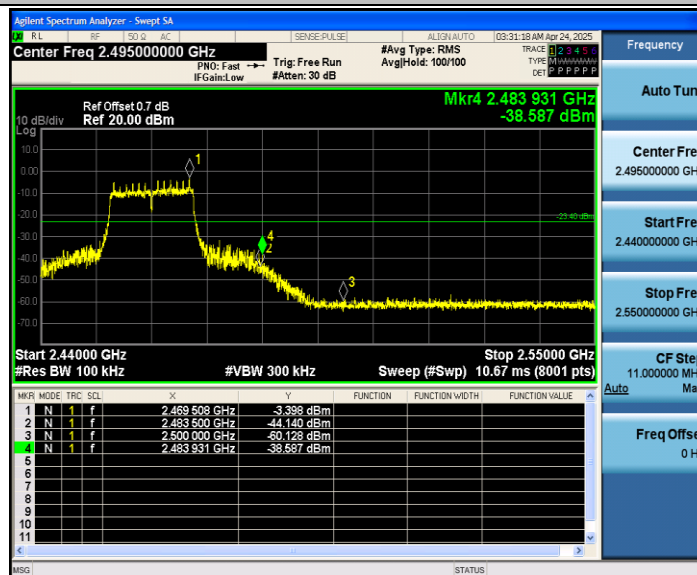
11B_Ant1_High_2462



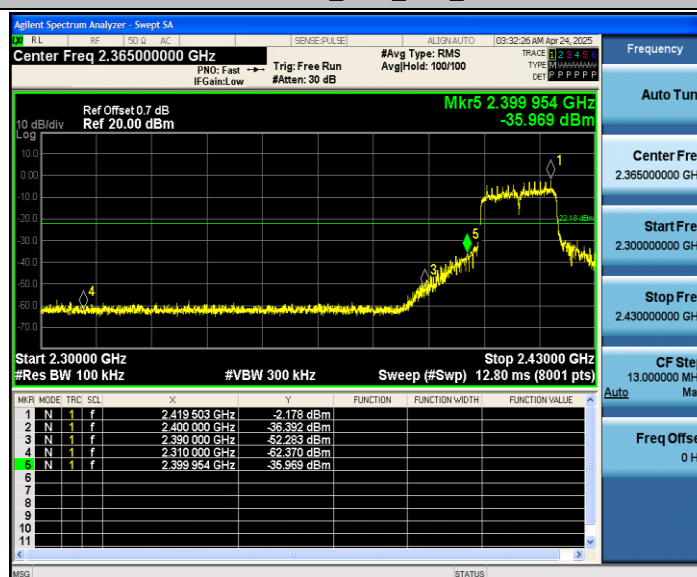
11G_Ant1_Low_2412



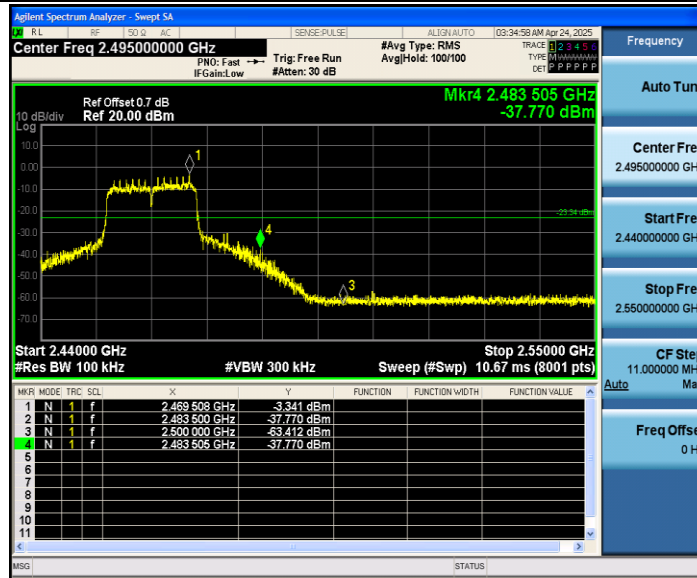
11G_Ant1_High_2462



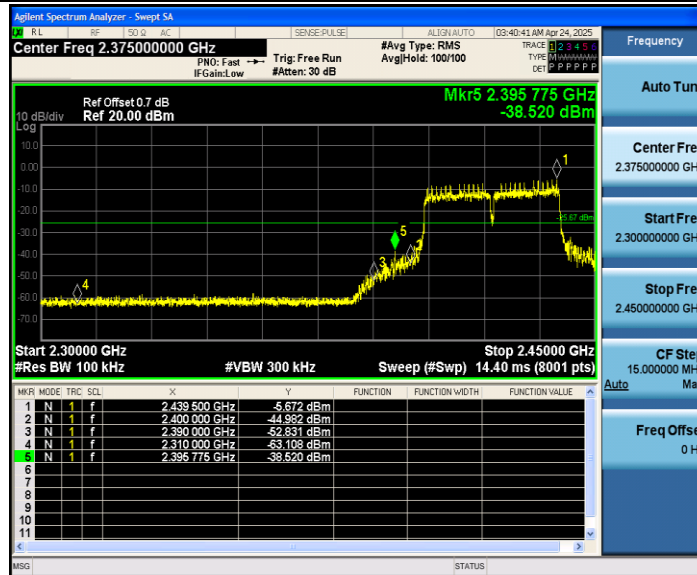
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452