

FCC Appendix RF Test Data

FCC ID : 2ATOW-TD-94X1

Company: : SHENZHEN TVT DIGITAL TECHNOLOGY CO.,LTD.

EUT : IP CAMERA

Model Number : TD-9451S4-C

Report No. : CTA25042801201

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	9.560	2406.960	2416.520	0.5	PASS
		2437	8.600	2432.960	2441.560	0.5	PASS
		2462	9.120	2456.960	2466.080	0.5	PASS
11G	Ant1	2412	15.760	2404.440	2420.200	0.5	PASS
		2437	15.680	2429.480	2445.160	0.5	PASS
		2462	16.080	2454.120	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.120	2404.440	2420.560	0.5	PASS
		2437	15.800	2429.440	2445.240	0.5	PASS
		2462	17.000	2453.640	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.480	2440.000	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.280	2434.320	2469.600	0.5	PASS
11AX20SISO	Ant1	2412	15.920	2404.440	2420.360	0.5	PASS
		2437	16.040	2429.440	2445.480	0.5	PASS
		2462	17.000	2453.640	2470.640	0.5	PASS
11AX40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.280	2434.320	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



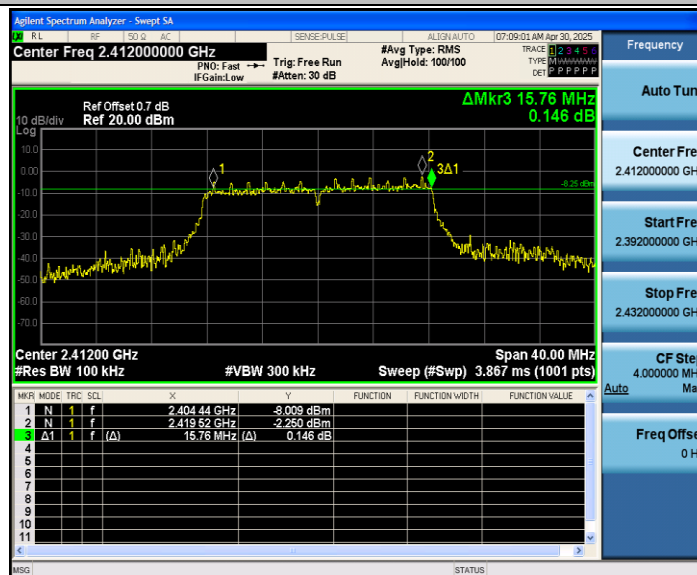
11B_Ant1_2437



11B_Ant1_2462



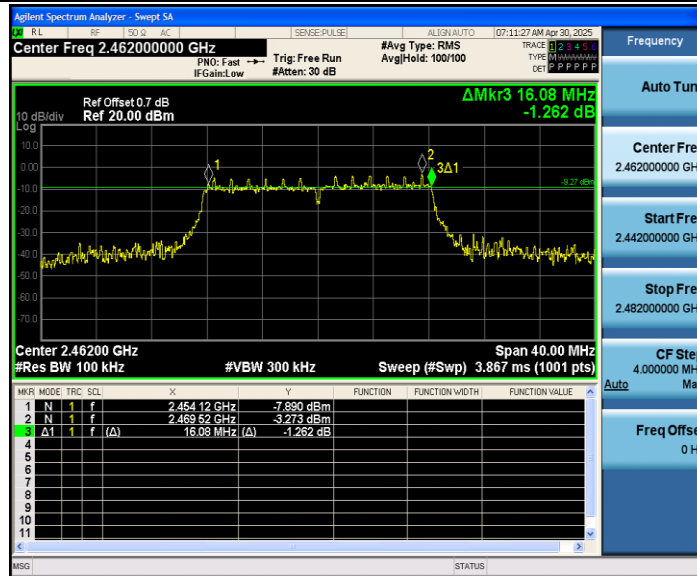
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



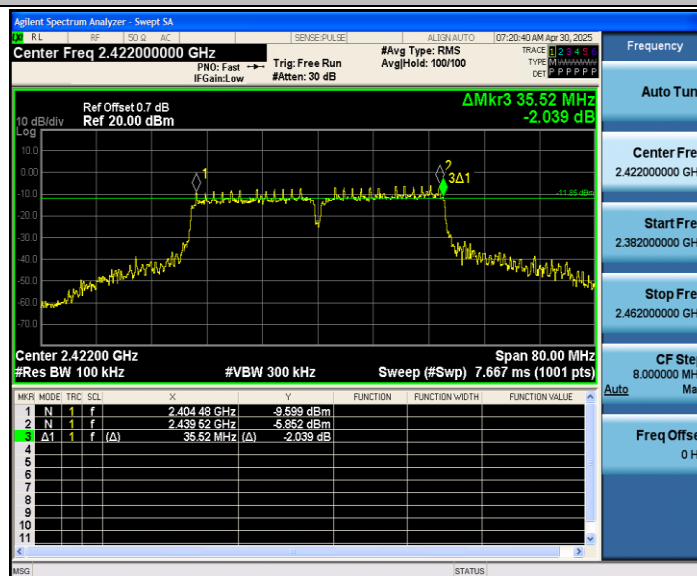
11N20SISO_Ant1_2437



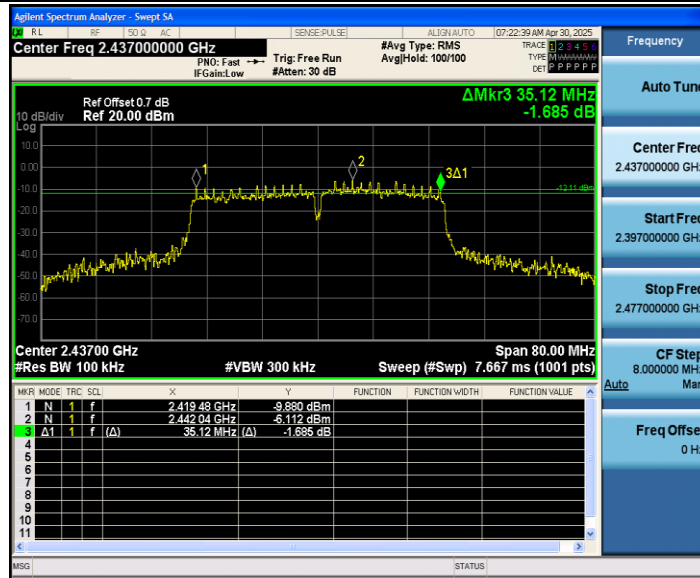
11N20SISO_Ant1_2462



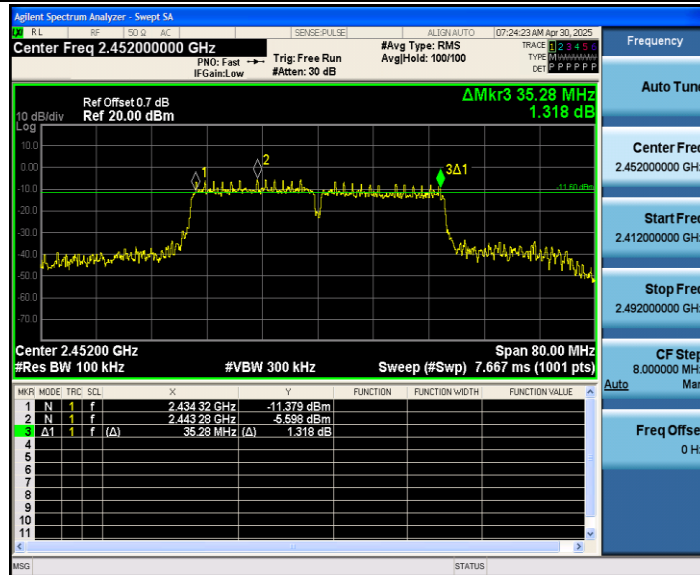
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



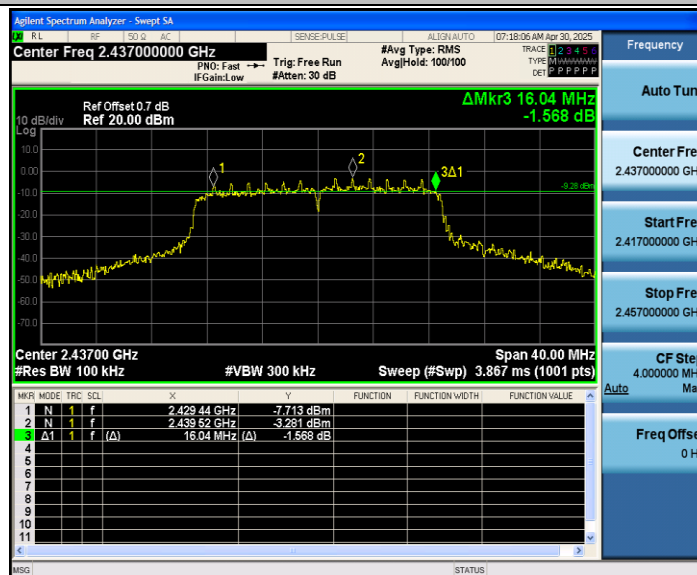
11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



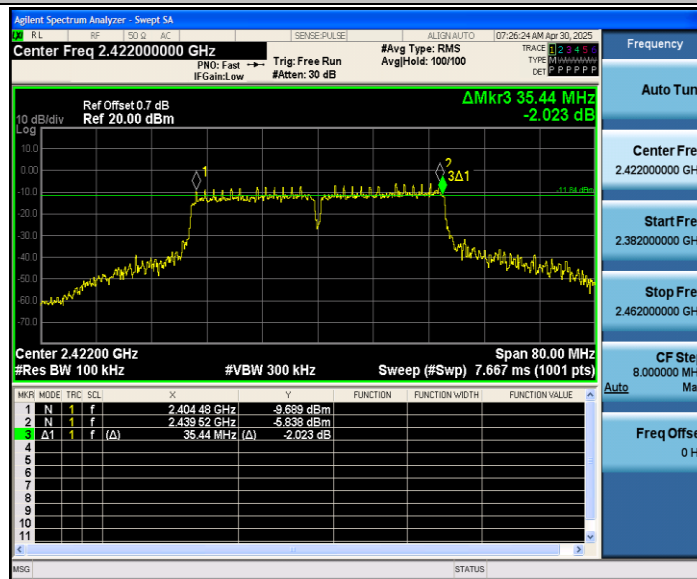
11AX20SISO_Ant1_2437



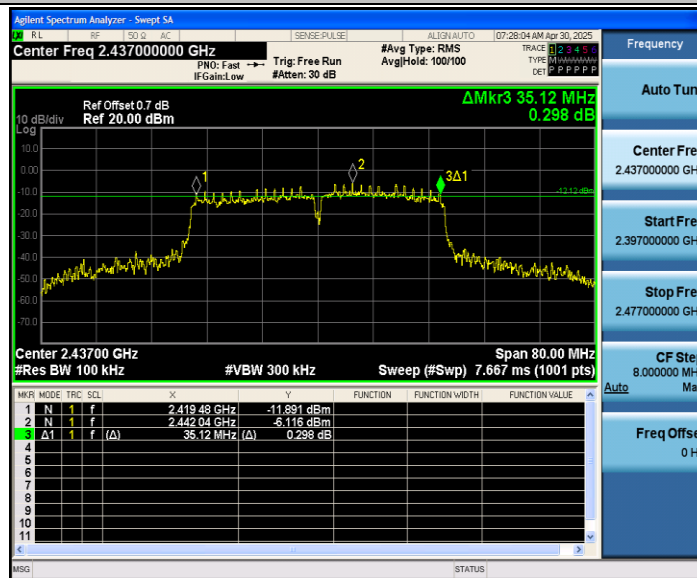
11AX20SISO_Ant1_2462



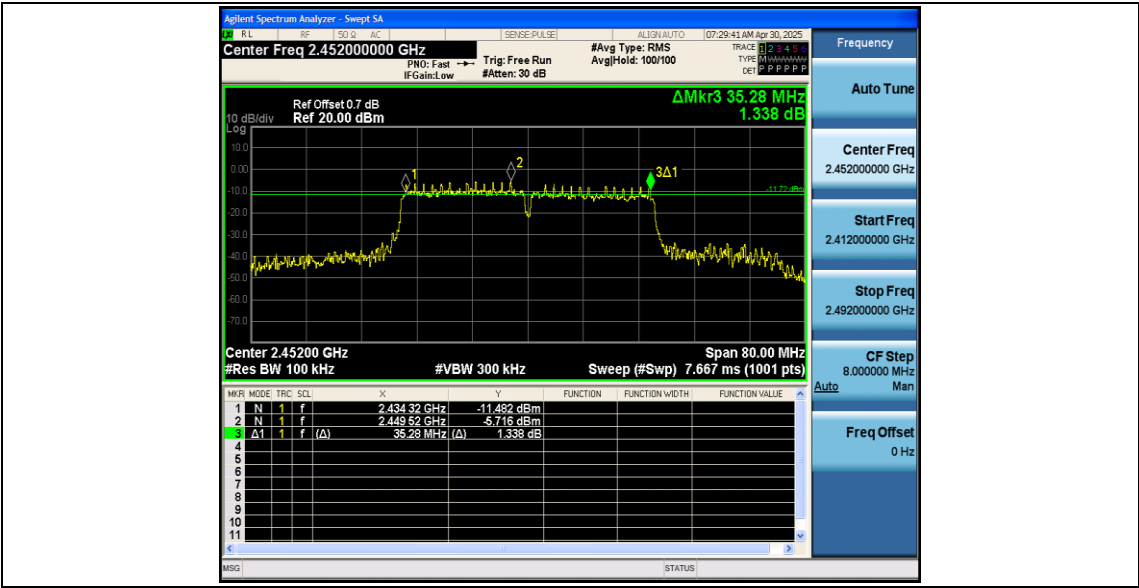
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



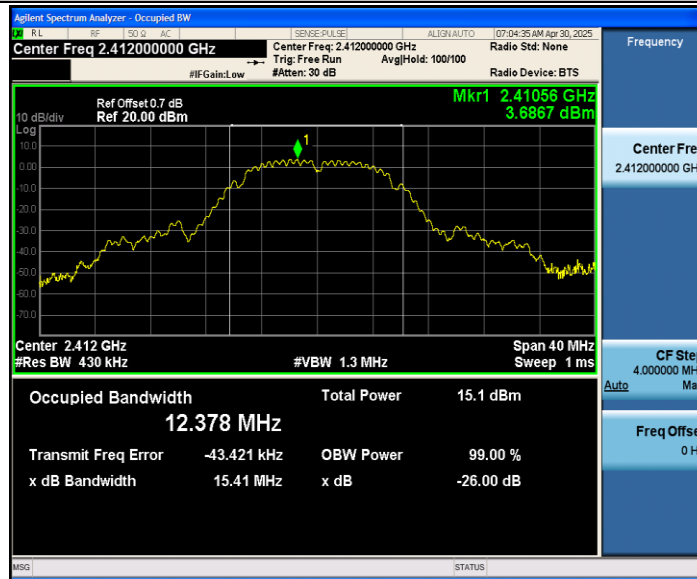
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.378	2405.7676	2418.1456	---	---
		2437	12.284	2431.0999	2443.3839	---	---
		2462	12.717	2455.4530	2468.1700	---	---
11G	Ant1	2412	16.743	2403.7818	2420.5248	---	---
		2437	16.615	2428.8049	2445.4199	---	---
		2462	16.942	2453.6358	2470.5778	---	---
11N20SISO	Ant1	2412	17.898	2403.2364	2421.1344	---	---
		2437	17.631	2428.2984	2445.9294	---	---
		2462	18.037	2453.1293	2471.1663	---	---
11N40SISO	Ant1	2422	36.354	2404.1352	2440.4892	---	---
		2437	36.075	2419.0689	2455.1439	---	---
		2452	36.370	2433.8574	2470.2274	---	---
11AX20SISO	Ant1	2412	17.828	2403.2810	2421.1090	---	---
		2437	17.644	2428.2872	2445.9312	---	---
		2462	17.986	2453.1867	2471.1727	---	---
11AX40SISO	Ant1	2422	36.303	2404.1491	2440.4521	---	---
		2437	35.998	2419.1290	2455.1270	---	---
		2452	36.459	2433.8464	2470.3054	---	---

Test Graphs

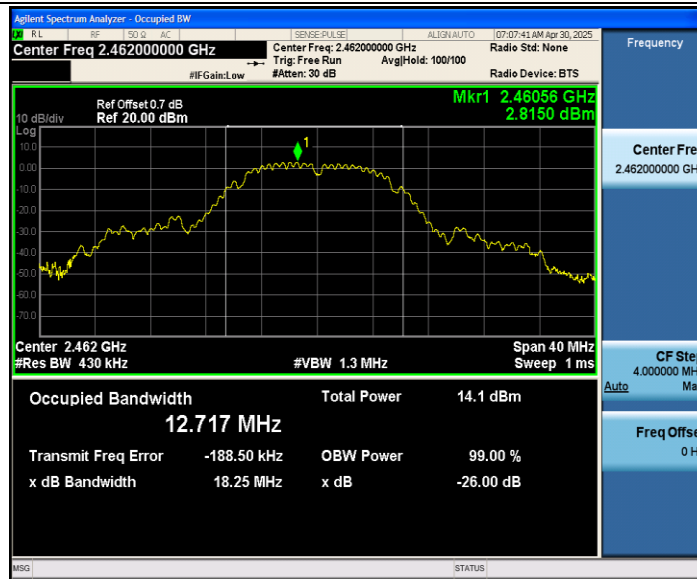
11B_Ant1_2412



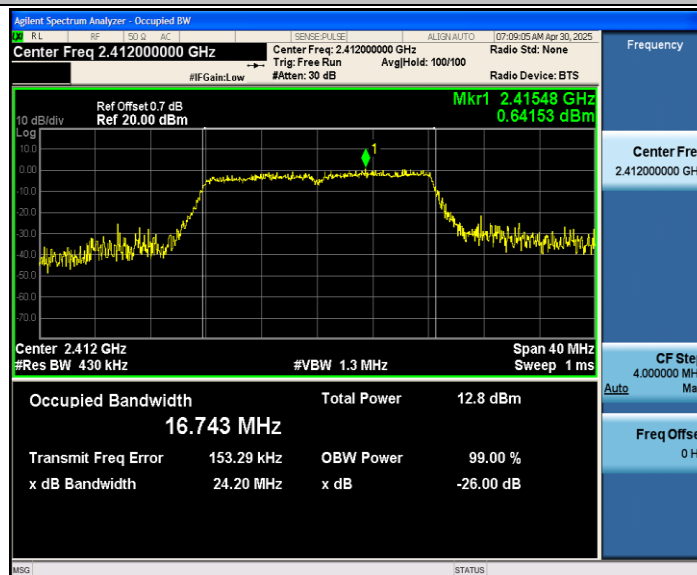
11B_Ant1_2437



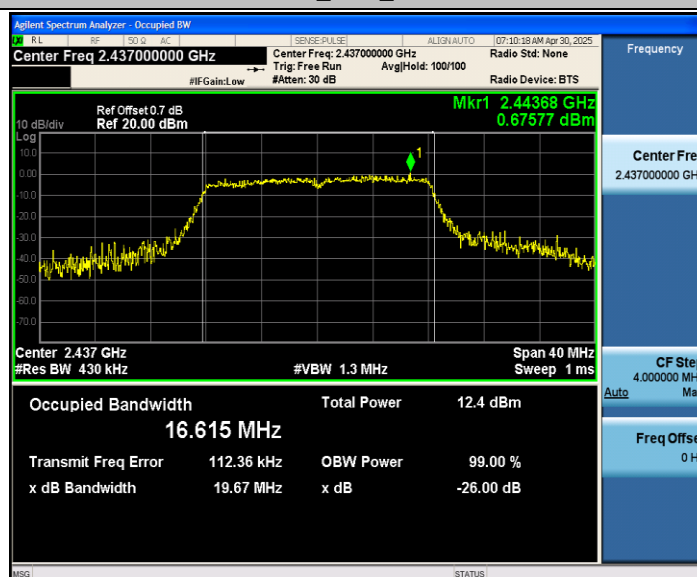
11B_Ant1_2462



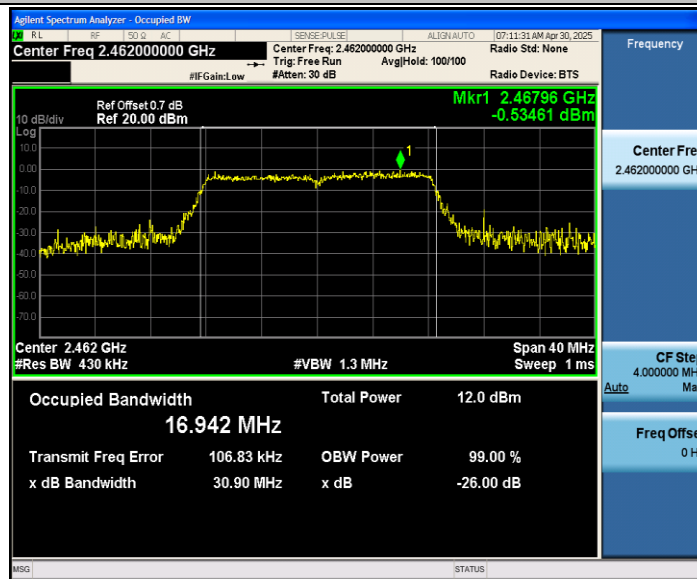
11G_Ant1_2412



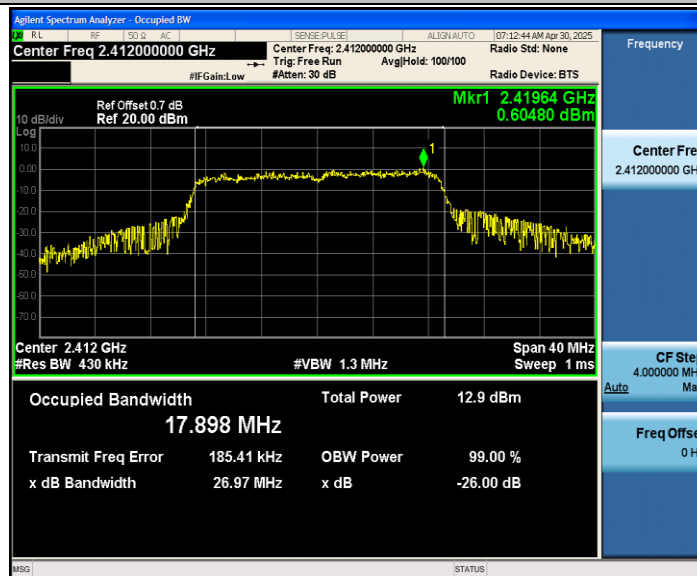
11G_Ant1_2437



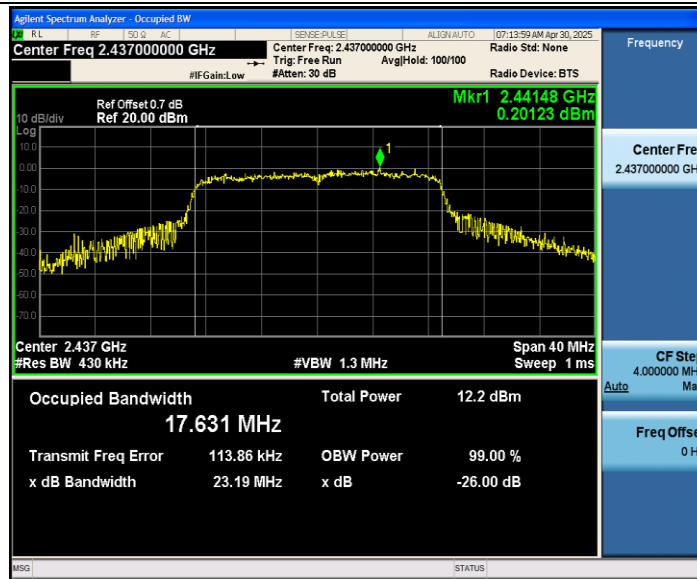
11G_Ant1_2462



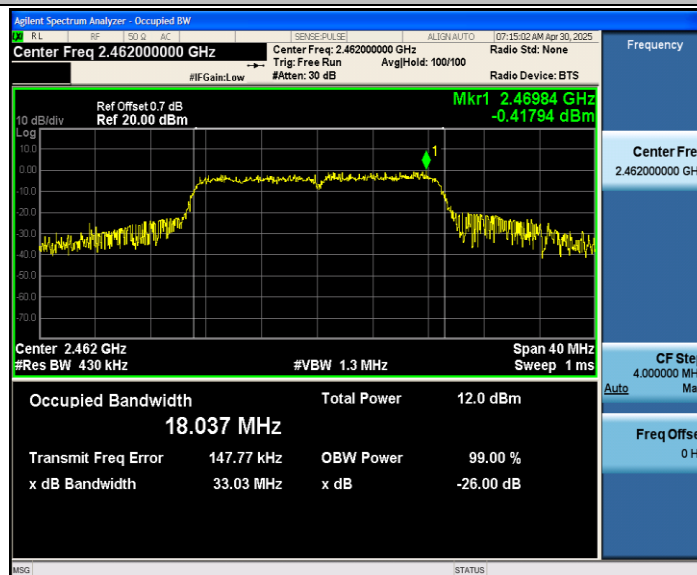
11N20SISO_Ant1_2412



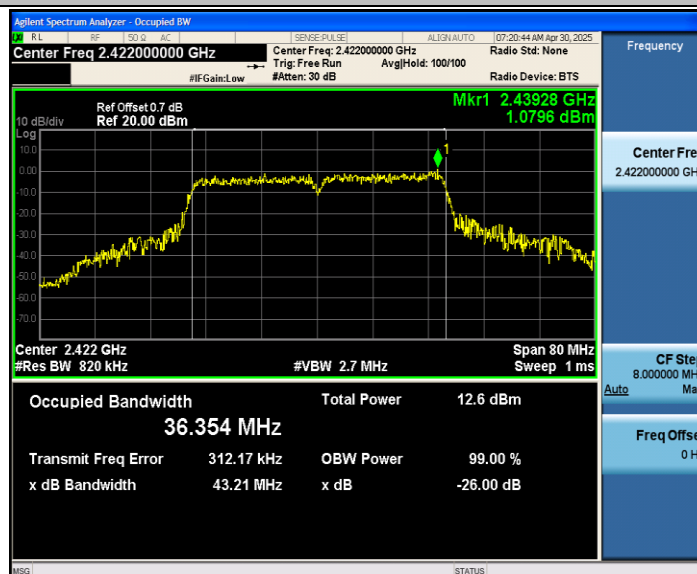
11N20SISO_Ant1_2437



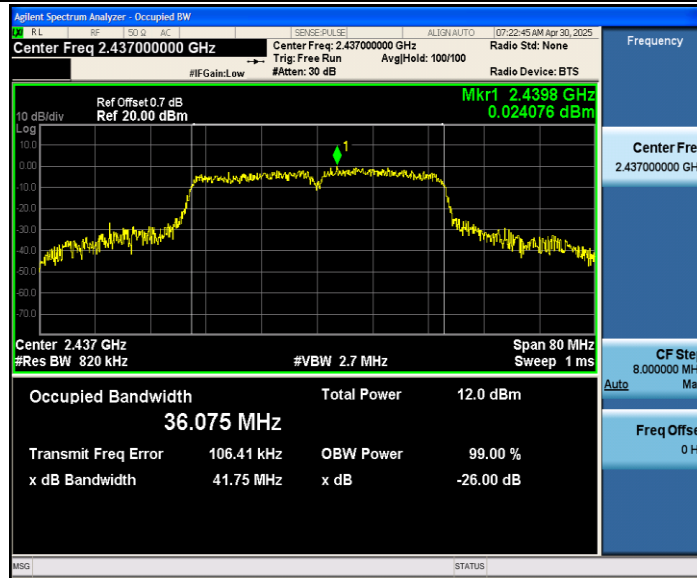
11N20SISO_Ant1_2462



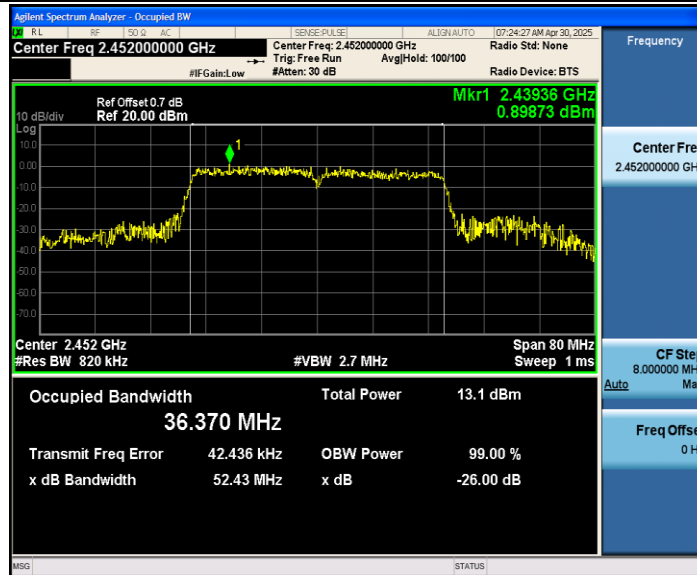
11N40SISO_Ant1_2422



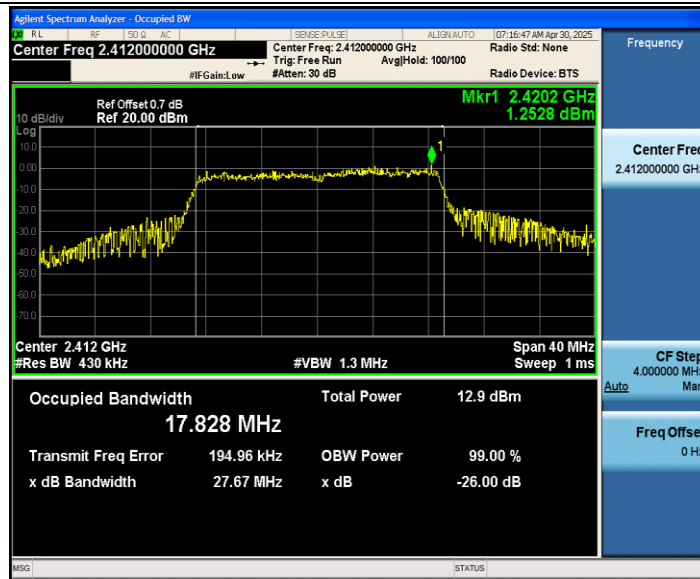
11N40SISO_Ant1_2437



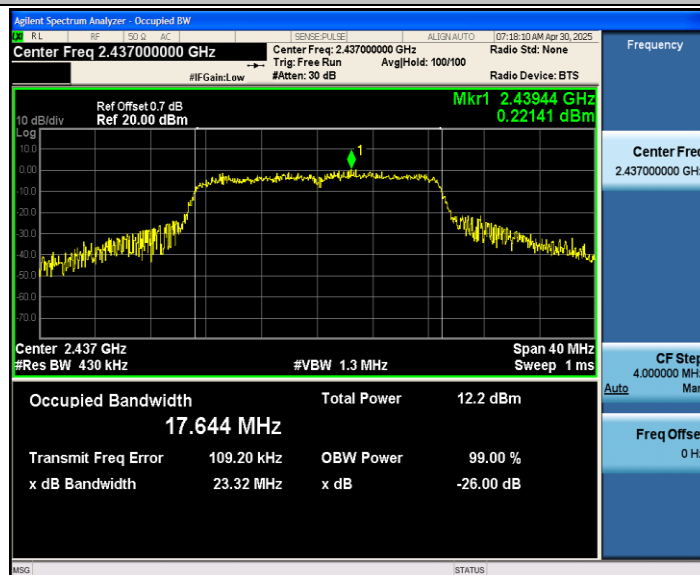
11N40SISO_Ant1_2452



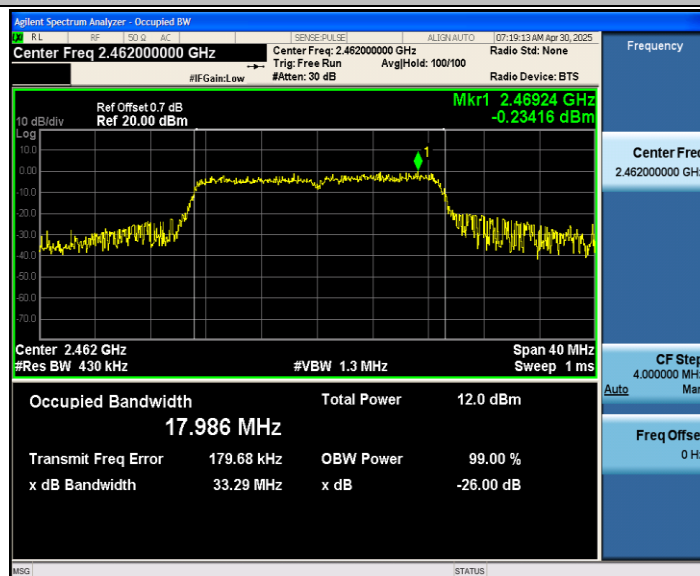
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



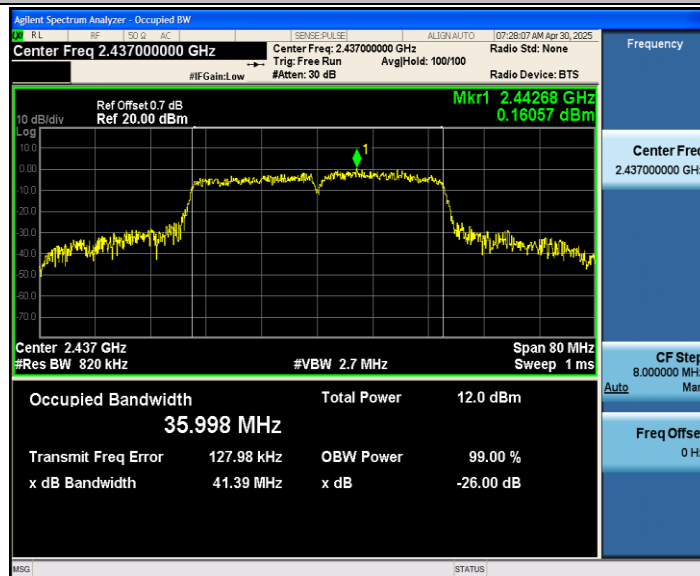
11AX20SISO_Ant1_2462



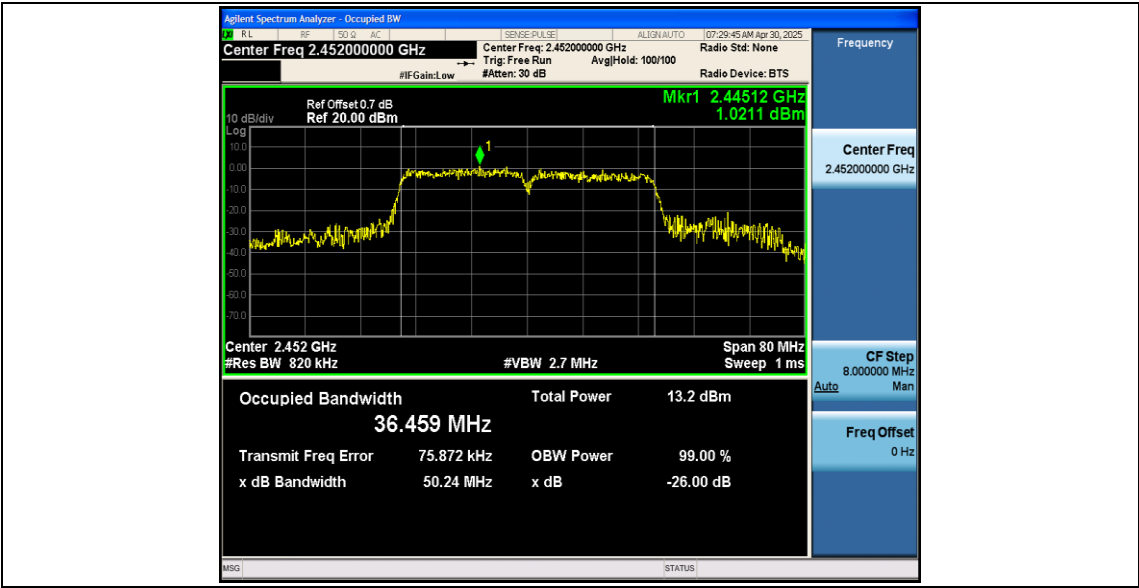
11AX40SISO_Ant1_2422



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	14.96	≤30.00	PASS
		2437	14.71	≤30.00	PASS
		2462	13.89	≤30.00	PASS
11G	Ant1	2412	13.51	≤30.00	PASS
		2437	12.93	≤30.00	PASS
		2462	12.62	≤30.00	PASS
11N20SISO	Ant1	2412	13.44	≤30.00	PASS
		2437	12.70	≤30.00	PASS
		2462	12.56	≤30.00	PASS
11N40SISO	Ant1	2422	12.73	≤30.00	PASS
		2437	12.22	≤30.00	PASS
		2452	13.16	≤30.00	PASS
11AX20SISO	Ant1	2412	13.34	≤30.00	PASS
		2437	12.79	≤30.00	PASS
		2462	12.57	≤30.00	PASS
11AX40SISO	Ant1	2422	12.59	≤30.00	PASS
		2437	12.11	≤30.00	PASS
		2452	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	-11.08	≤8.00	PASS
		2437	-10.66	≤8.00	PASS
		2462	-11.46	≤8.00	PASS
11G	Ant1	2412	-18.41	≤8.00	PASS
		2437	-18.44	≤8.00	PASS
		2462	-17.76	≤8.00	PASS
11N20SISO	Ant1	2412	-18.46	≤8.00	PASS
		2437	-19.45	≤8.00	PASS
		2462	-19.66	≤8.00	PASS
11N40SISO	Ant1	2422	-21.48	≤8.00	PASS
		2437	-22.26	≤8.00	PASS
		2452	-20.25	≤8.00	PASS
11AX20SISO	Ant1	2412	-18.04	≤8.00	PASS
		2437	-18.66	≤8.00	PASS
		2462	-19.75	≤8.00	PASS
11AX40SISO	Ant1	2422	-21.60	≤8.00	PASS
		2437	-22.04	≤8.00	PASS
		2452	-21.96	≤8.00	PASS

Test Graphs

11B_Ant1_2412



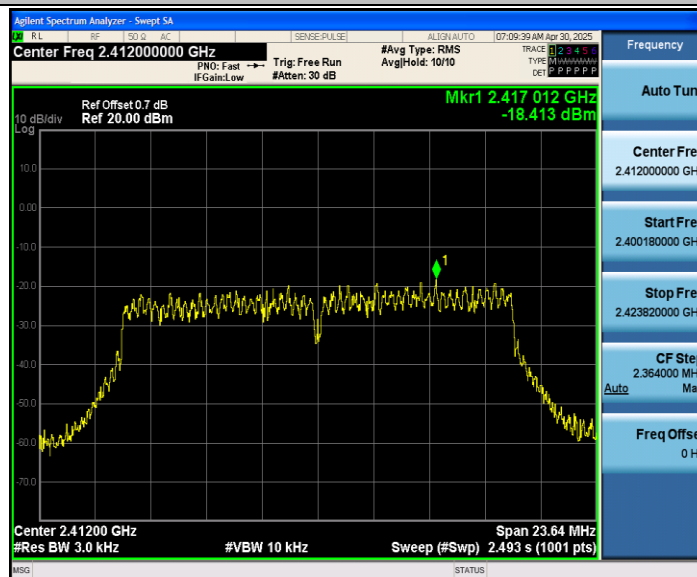
11B_Ant1_2437



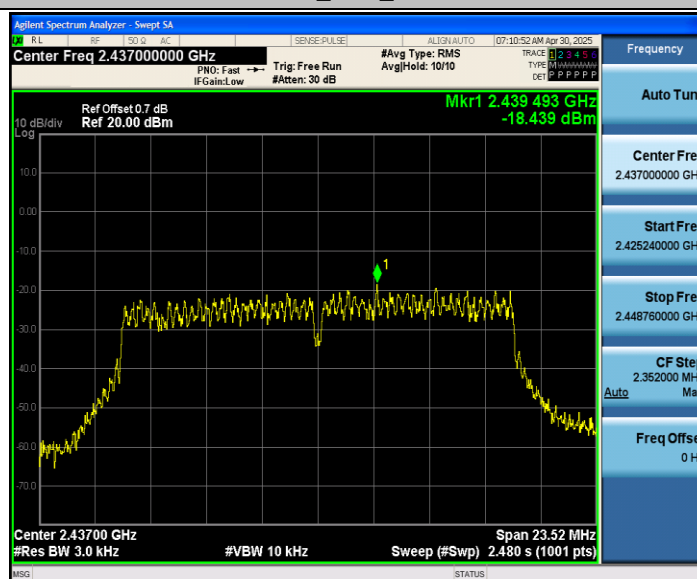
11B_Ant1_2462



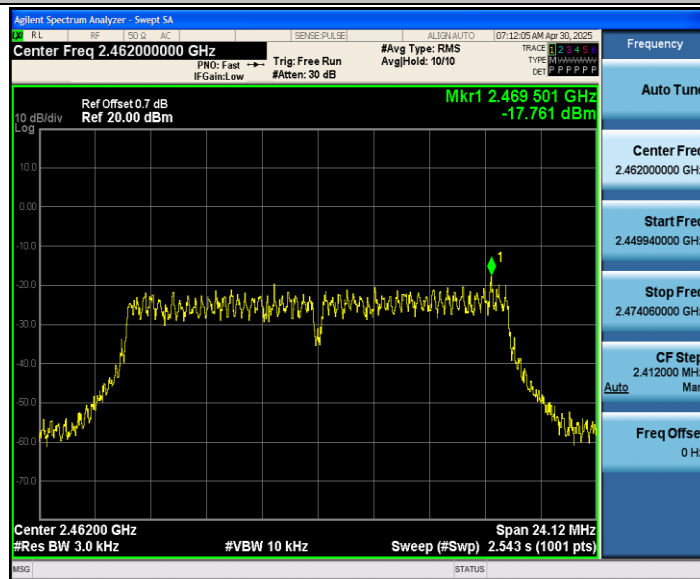
11G_Ant1_2412



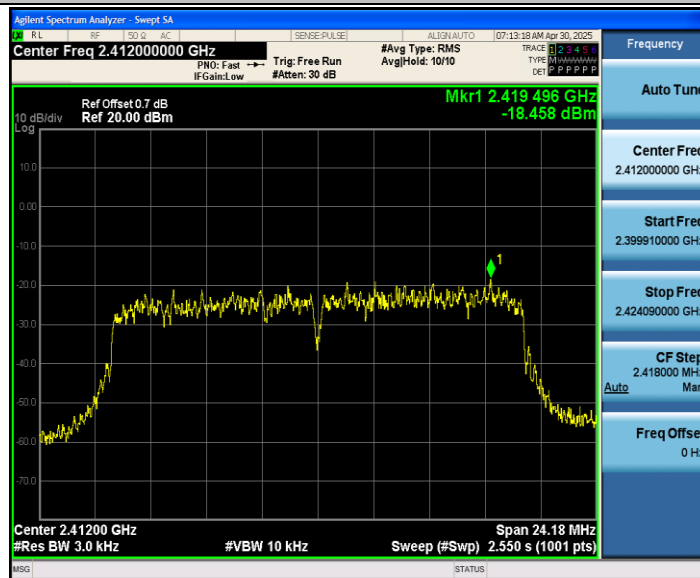
11G_Ant1_2437



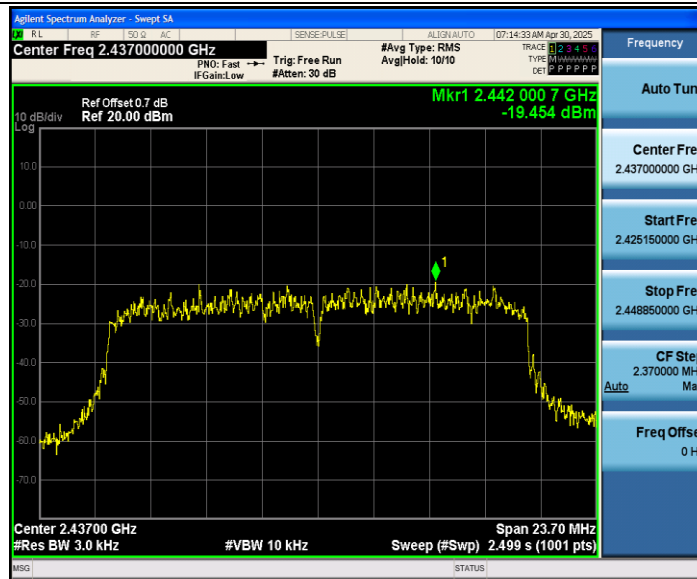
11G_Ant1_2462



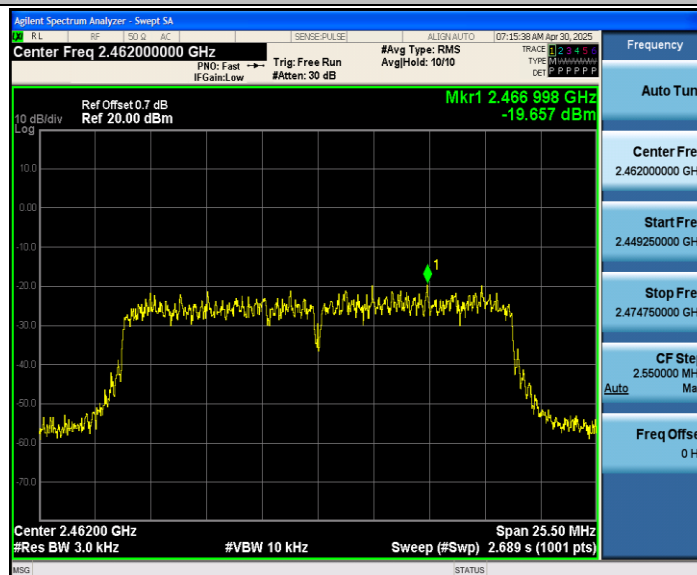
11N20SISO_Ant1_2412



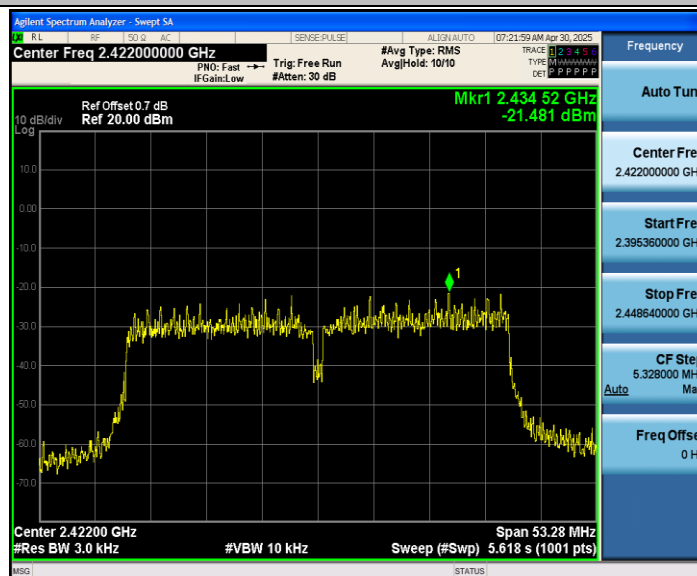
11N20SISO_Ant1_2437



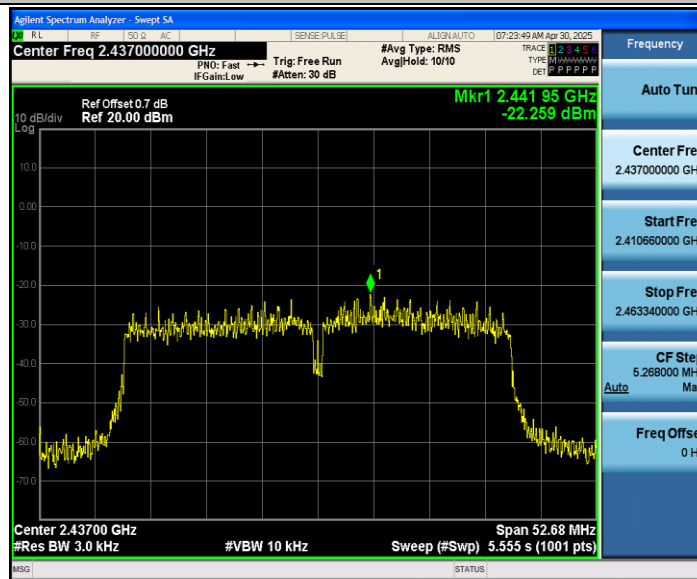
11N20SISO_Ant1_2462



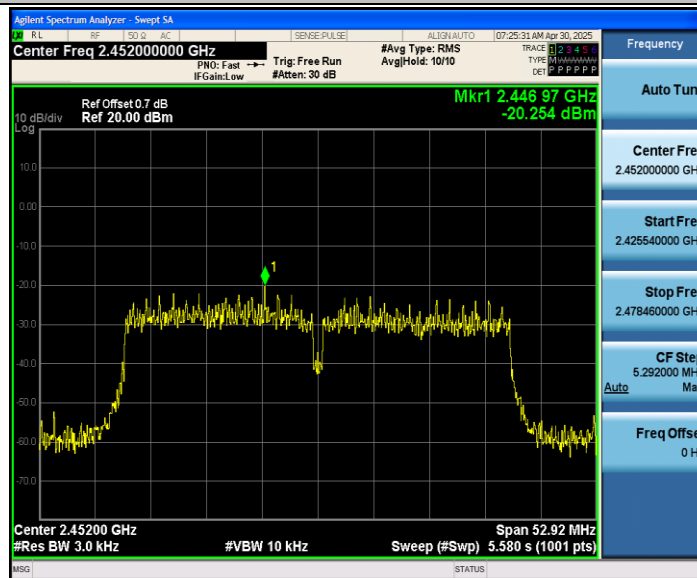
11N40SISO_Ant1_2422



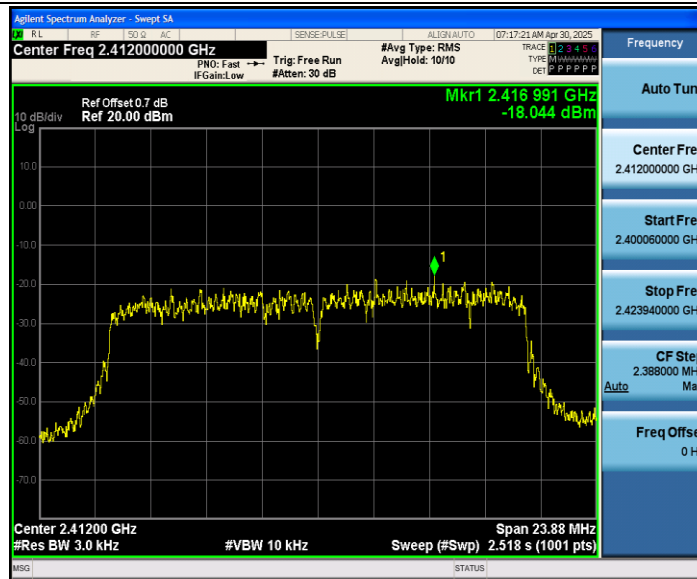
11N40SISO_Ant1_2437



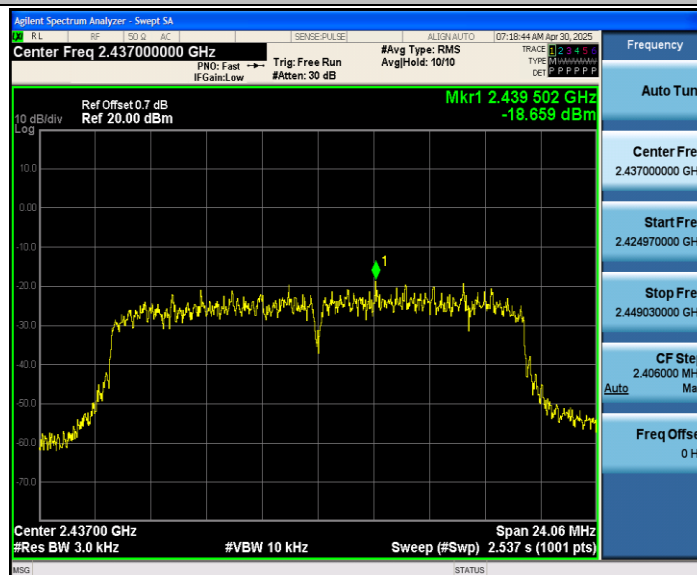
11N40SISO_Ant1_2452



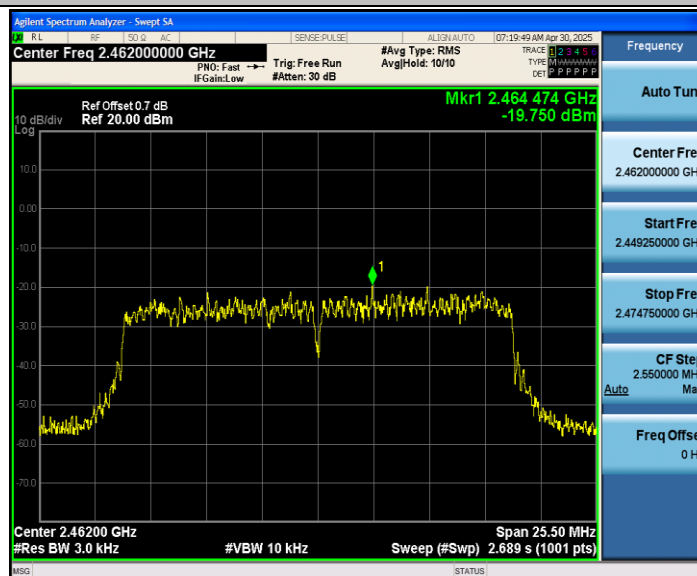
11AX20SISO_Ant1_2412



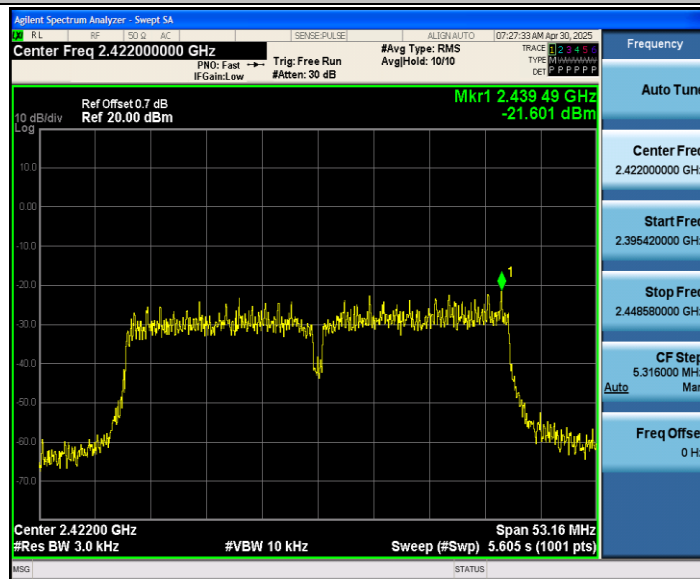
11AX20SISO_Ant1_2437



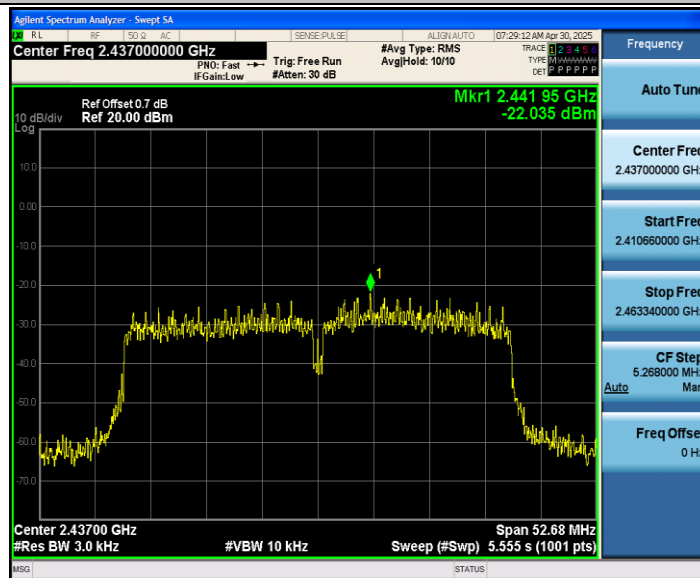
11AX20SISO_Ant1_2462



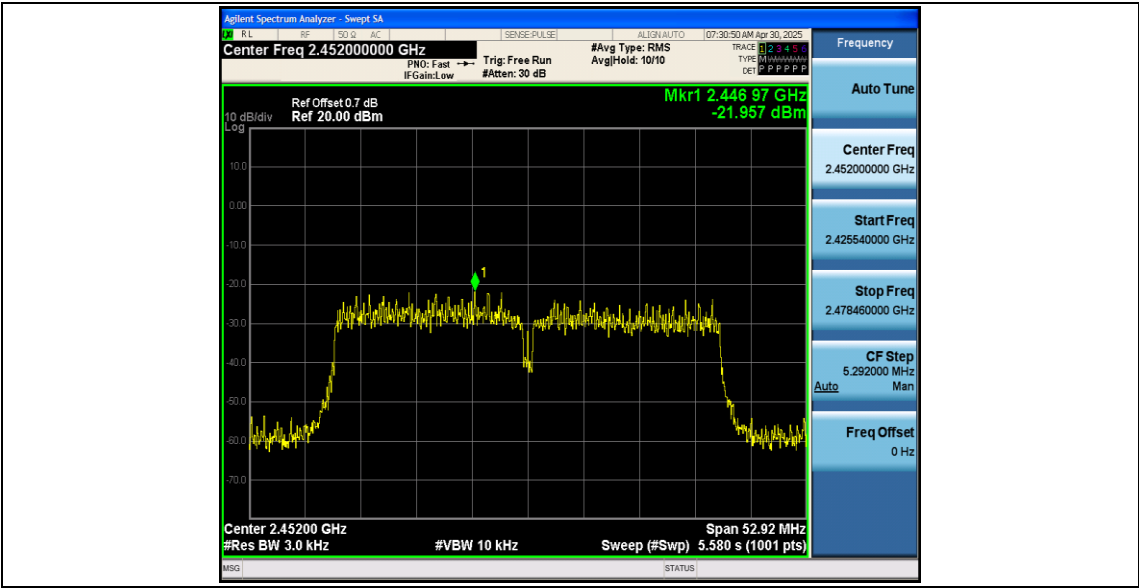
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



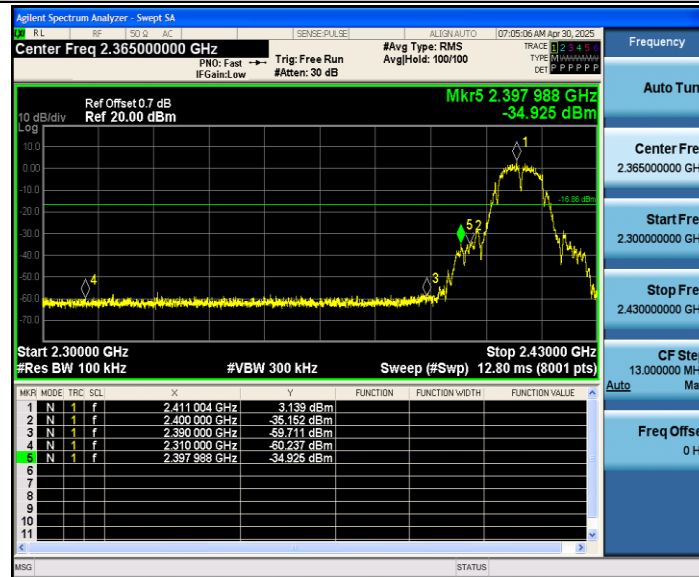
Appendix E: Band edge measurements

Test Result

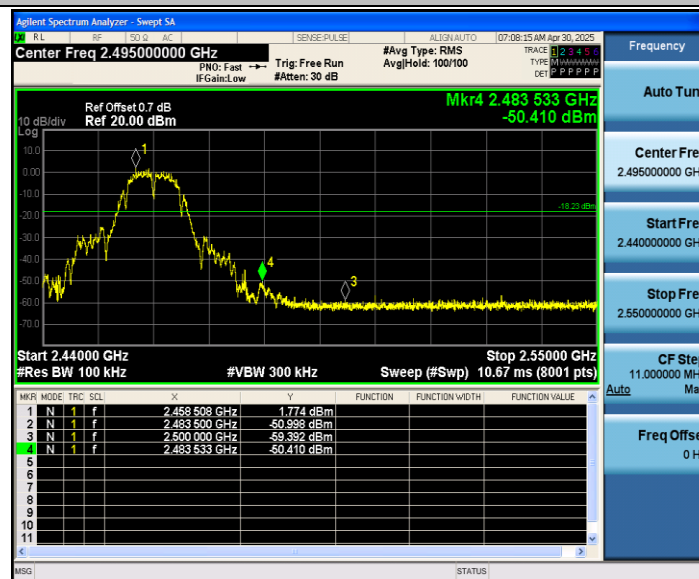
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.14	-34.93	≤-16.86	PASS
		High	2462	1.77	-50.41	≤-18.23	PASS
11G	Ant1	Low	2412	-2.18	-36.31	≤-22.18	PASS
		High	2462	-3.39	-38.8	≤-23.39	PASS
11N20SISO	Ant1	Low	2412	-2.76	-35.82	≤-22.76	PASS
		High	2462	-4.00	-39.4	≤-24	PASS
11N40SISO	Ant1	Low	2422	-5.84	-39.04	≤-25.84	PASS
		High	2452	-5.57	-35.97	≤-25.57	PASS
11AX20SISO	Ant1	Low	2412	-2.59	-34.09	≤-22.59	PASS
		High	2462	-3.37	-42.13	≤-23.37	PASS
11AX40SISO	Ant1	Low	2422	-5.90	-38.66	≤-25.9	PASS
		High	2452	-5.58	-36.03	≤-25.58	PASS

Test Graphs

11B_Ant1_Low_2412



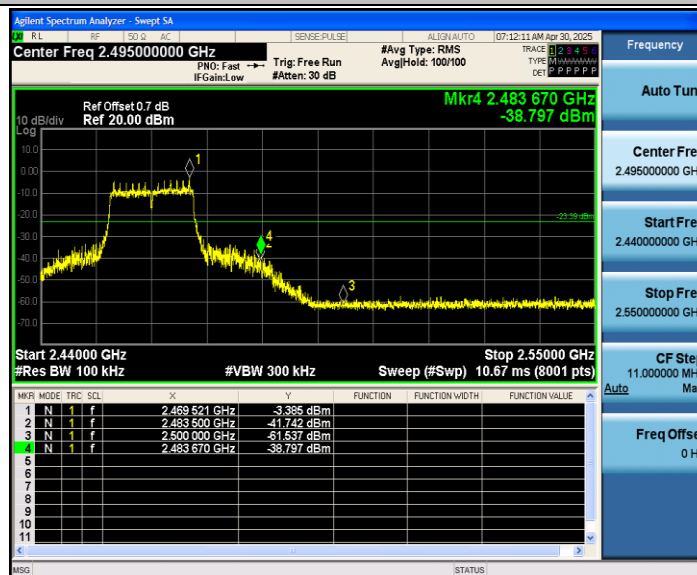
11B_Ant1_High_2462



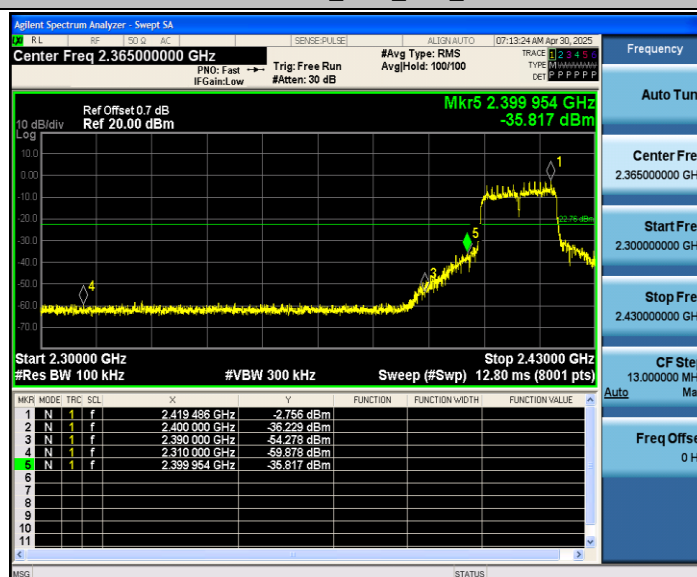
11G_Ant1_Low_2412



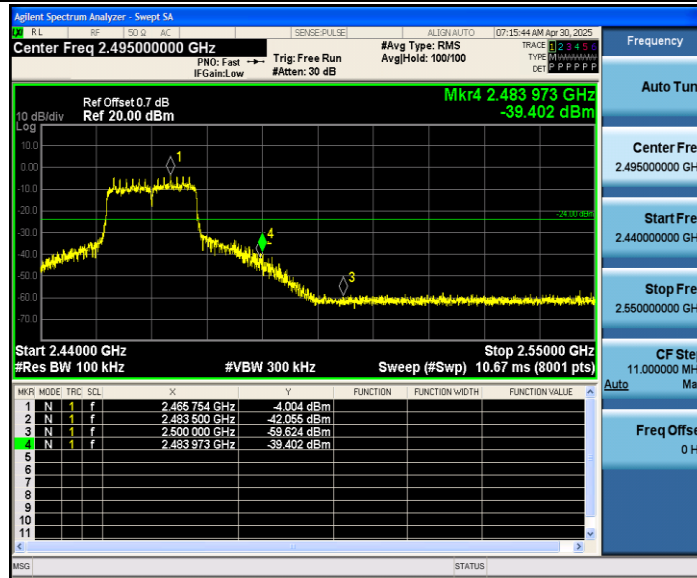
11G_Ant1_High_2462



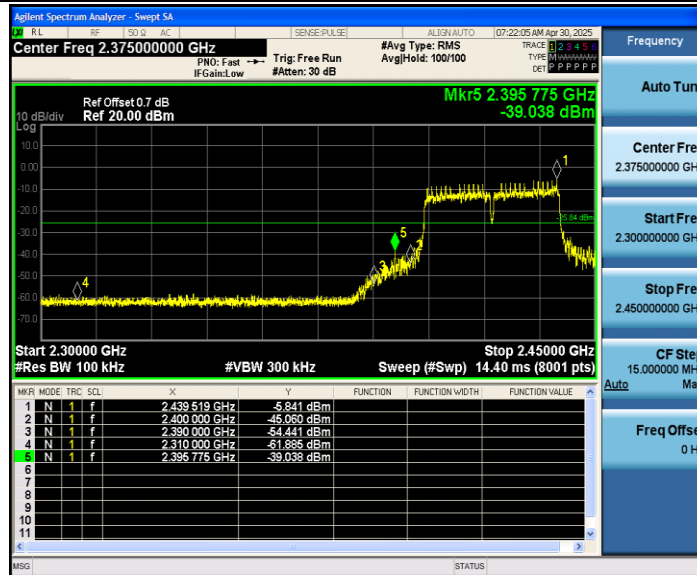
11N20SISO_Ant1_Low_2412



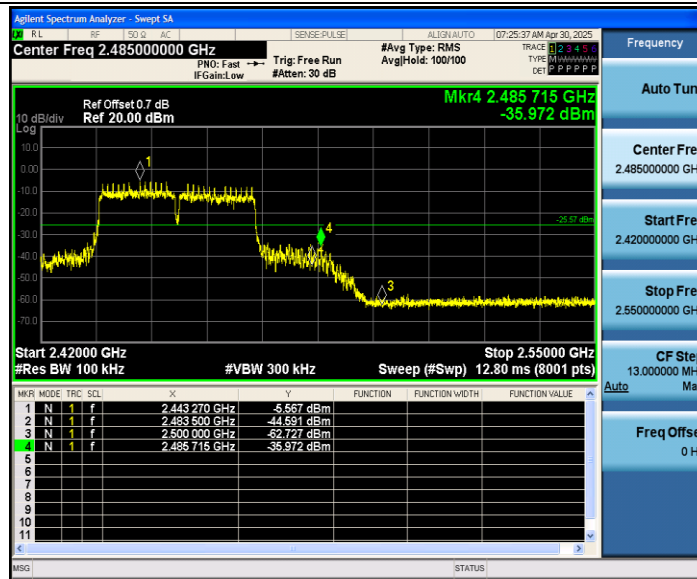
11N20SISO_Ant1_High_2462



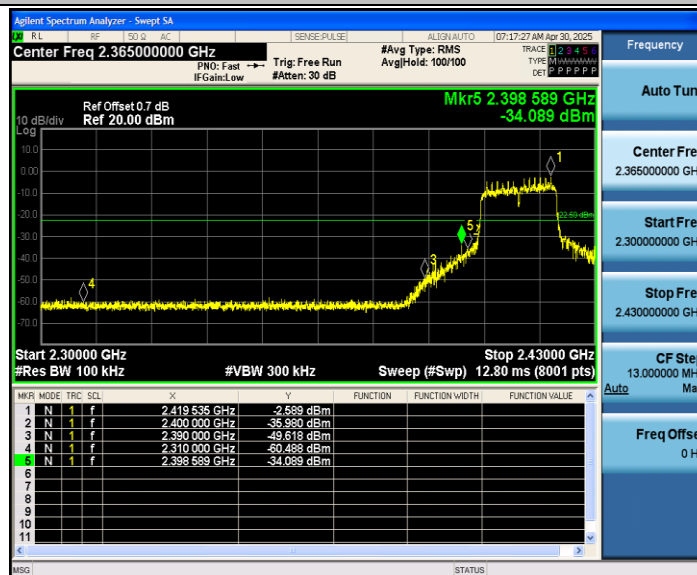
11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462

