

FCC Appendix RF Test Data for 2.4GWIFI

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

EUT : IP Camera

Model Number : TD-9557S4-C

FCC ID : 2ATOW-TD-95X7

Report No. : CTA25091101701

Reviewed By : Eric Wang

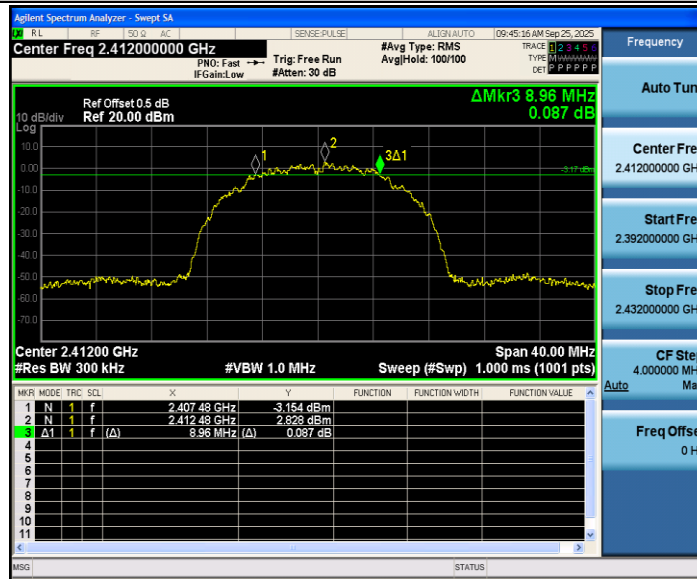
Appendix A: DTS Bandwidth

Test Result

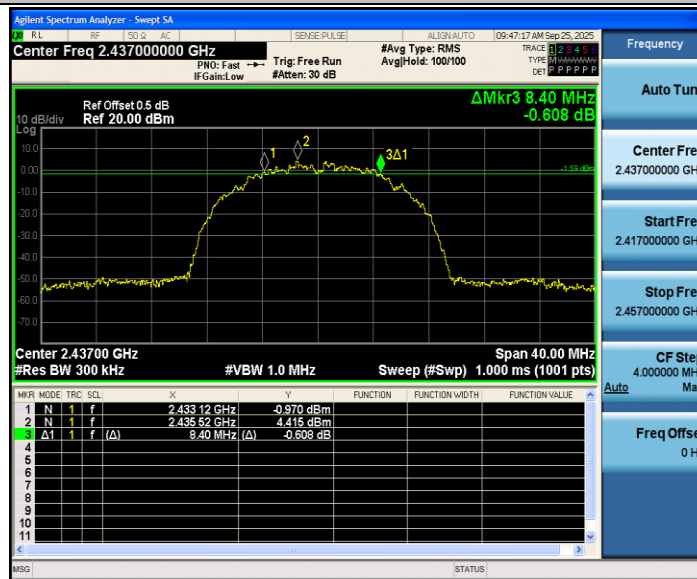
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.960	2407.480	2416.440	0.5	PASS
		2437	8.400	2433.120	2441.520	0.5	PASS
		2462	8.720	2457.520	2466.240	0.5	PASS
11G	Ant1	2412	16.320	2403.920	2420.240	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.440	2403.320	2420.760	0.5	PASS
		2437	17.360	2428.320	2445.680	0.5	PASS
		2462	17.280	2453.400	2470.680	0.5	PASS
11N40SISO	Ant1	2422	33.760	2405.360	2439.120	0.5	PASS
		2437	33.680	2420.360	2454.040	0.5	PASS
		2452	34.080	2435.040	2469.120	0.5	PASS
11AX20SISO	Ant1	2412	17.200	2403.440	2420.640	0.5	PASS
		2437	17.280	2428.400	2445.680	0.5	PASS
		2462	17.240	2453.400	2470.640	0.5	PASS
11AX40SISO	Ant1	2422	33.920	2405.360	2439.280	0.5	PASS
		2437	34.080	2420.040	2454.120	0.5	PASS
		2452	34.000	2435.120	2469.120	0.5	PASS

Test Graphs

11B_Ant1_2412



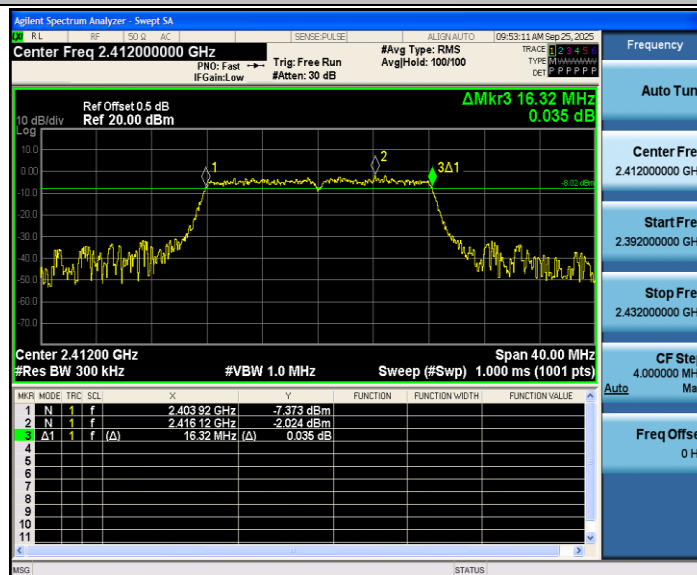
11B_Ant1_2437



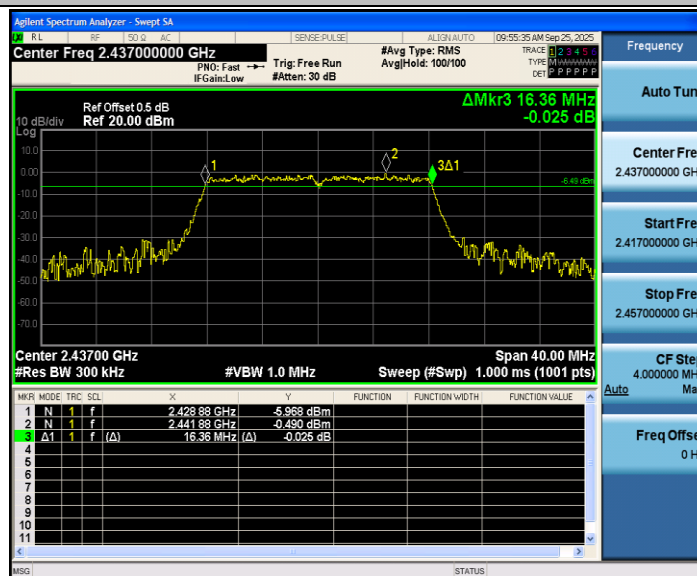
11B_Ant1_2462



11G_Ant1_2412



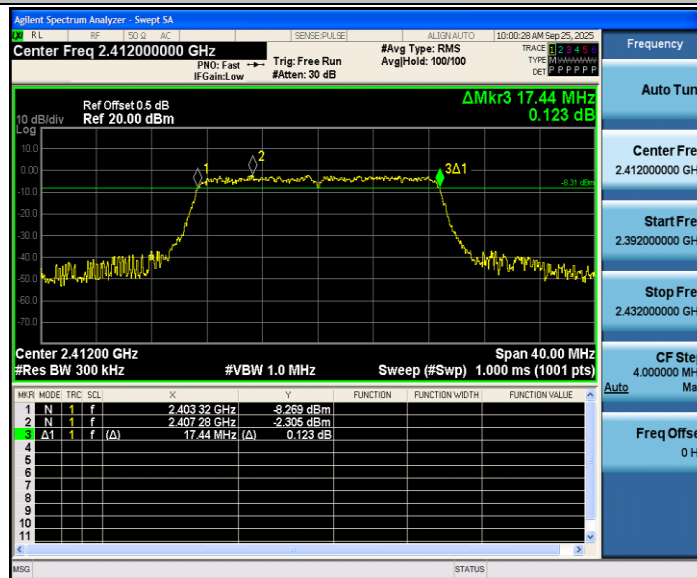
11G_Ant1_2437



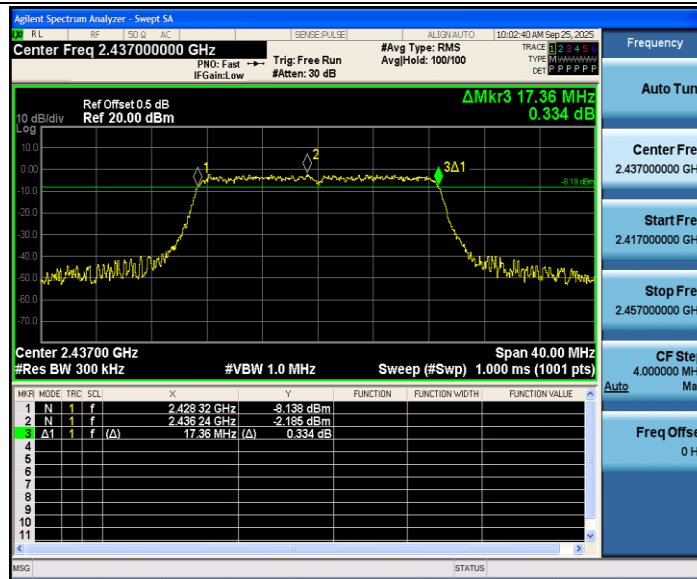
11G_Ant1_2462



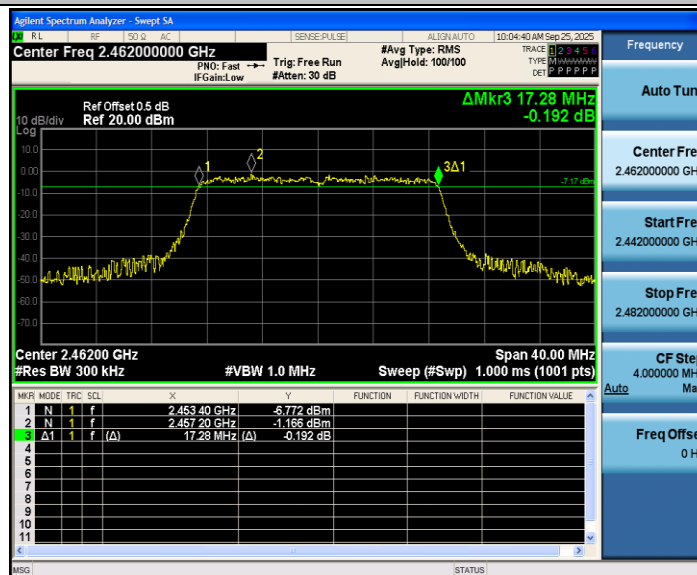
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



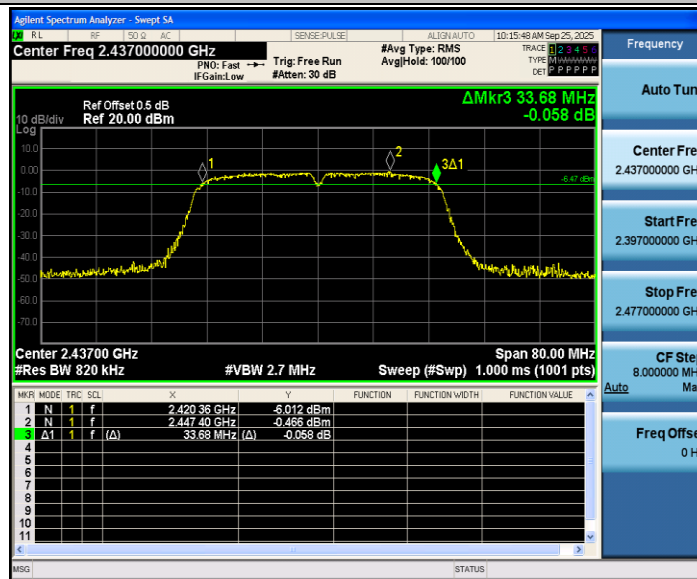
11N20SISO_Ant1_2462



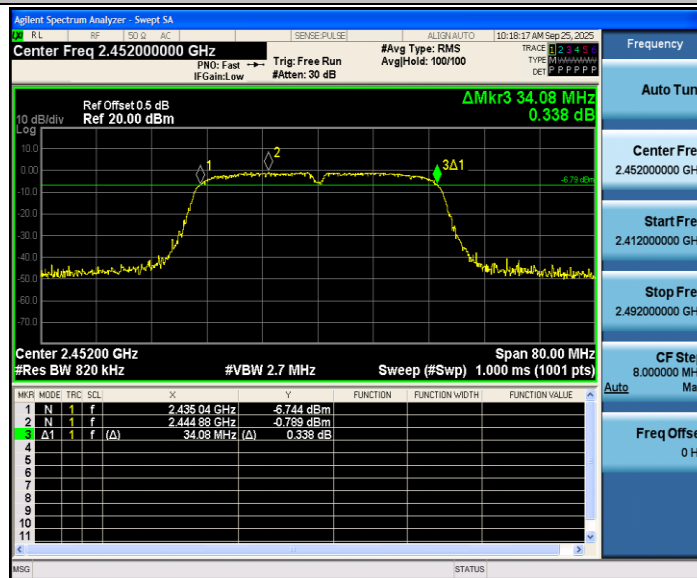
11N40SISO_Ant1_2422



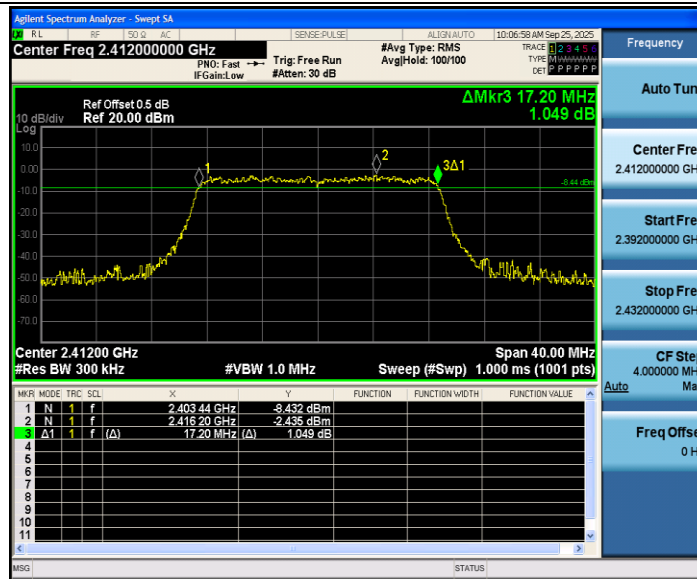
11N40SISO_Ant1_2437



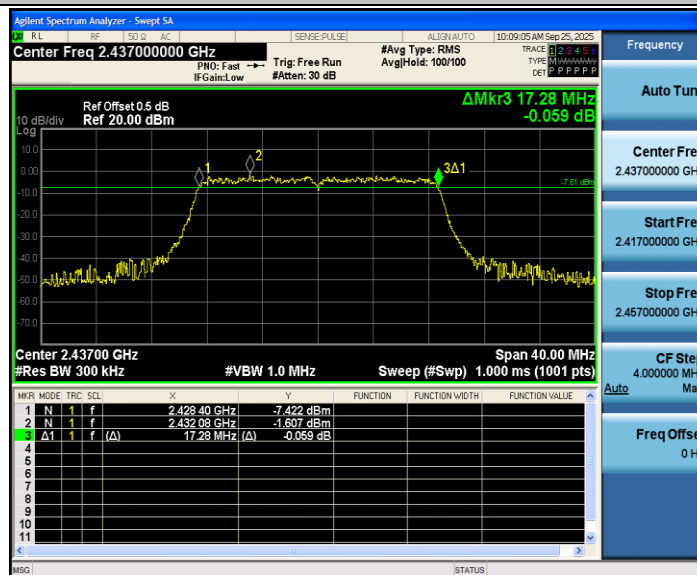
11N40SISO_Ant1_2452



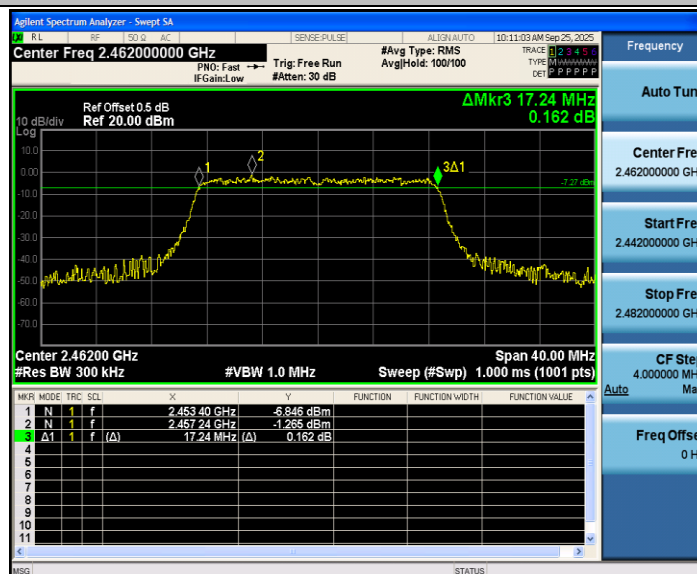
11AX20SISO_Ant1_2412



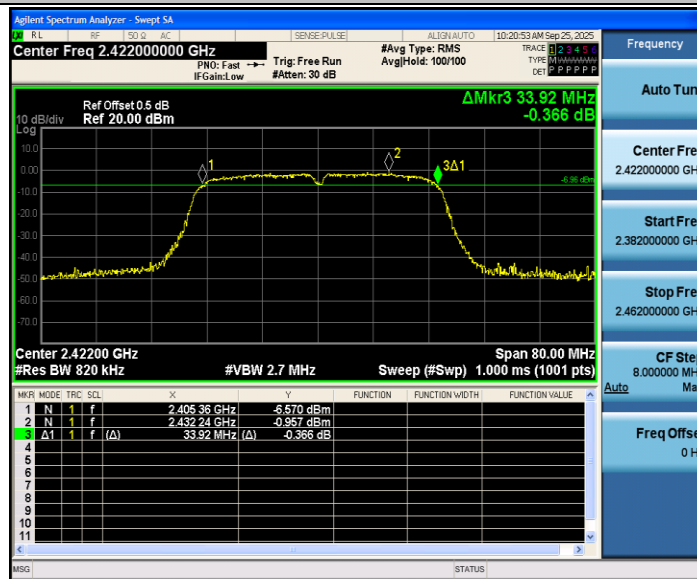
11AX20SISO_Ant1_2437



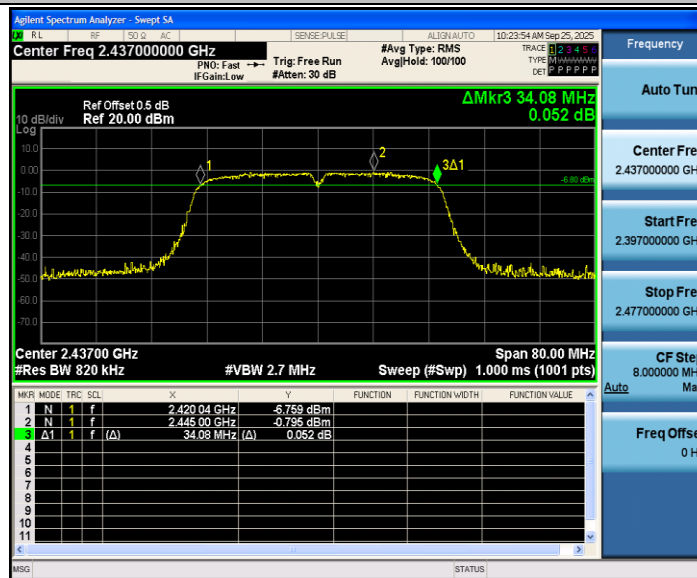
11AX20SISO_Ant1_2462



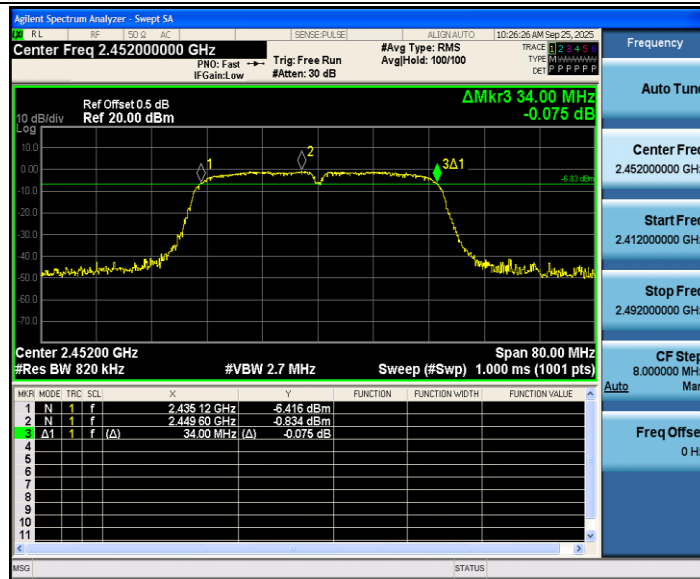
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



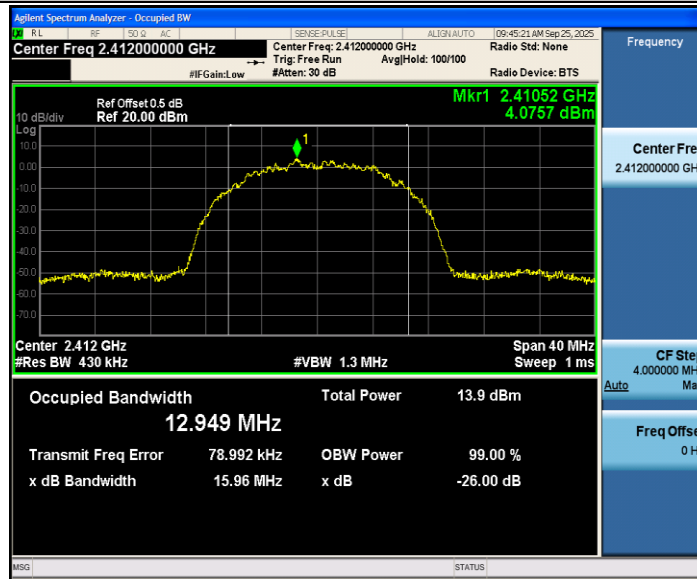
Appendix B: Occupied Channel Bandwidth

Test Result

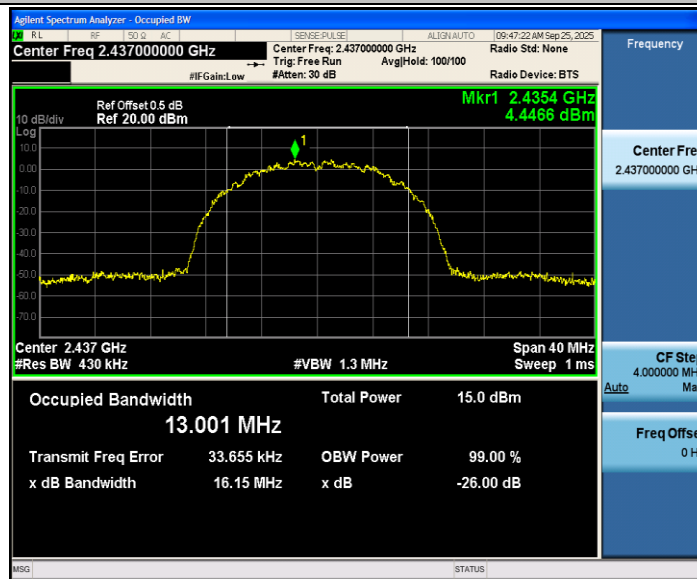
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.949	2405.6045	2418.5535	---	---
		2437	13.001	2430.5332	2443.5342	---	---
		2462	13.064	2455.4685	2468.5325	---	---
11G	Ant1	2412	16.598	2403.7465	2420.3445	---	---
		2437	16.604	2428.7368	2445.3408	---	---
		2462	16.587	2453.7245	2470.3115	---	---
11N20SISO	Ant1	2412	17.455	2403.3170	2420.7720	---	---
		2437	17.452	2428.3106	2445.7626	---	---
		2462	17.461	2453.3065	2470.7675	---	---
11N40SISO	Ant1	2422	34.884	2404.7336	2439.6176	---	---
		2437	34.793	2419.7538	2454.5468	---	---
		2452	34.865	2434.6340	2469.4990	---	---
11AX20SISO	Ant1	2412	17.447	2403.3190	2420.7660	---	---
		2437	17.469	2428.3018	2445.7708	---	---
		2462	17.462	2453.3014	2470.7634	---	---
11AX40SISO	Ant1	2422	34.806	2404.7643	2439.5703	---	---
		2437	34.762	2419.7281	2454.4901	---	---
		2452	34.807	2434.7050	2469.5120	---	---

Test Graphs

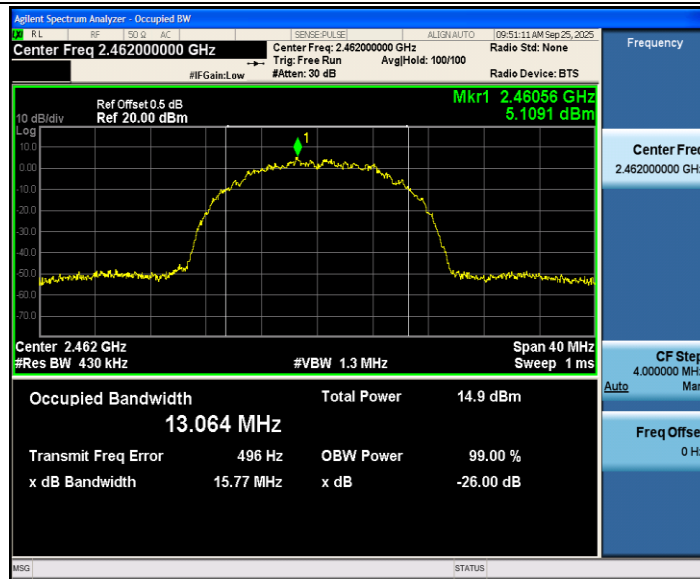
11B_Ant1_2412



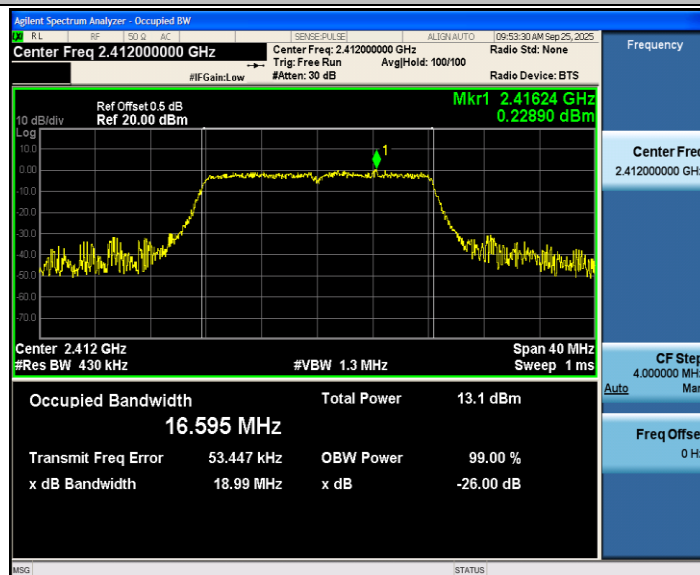
11B_Ant1_2437



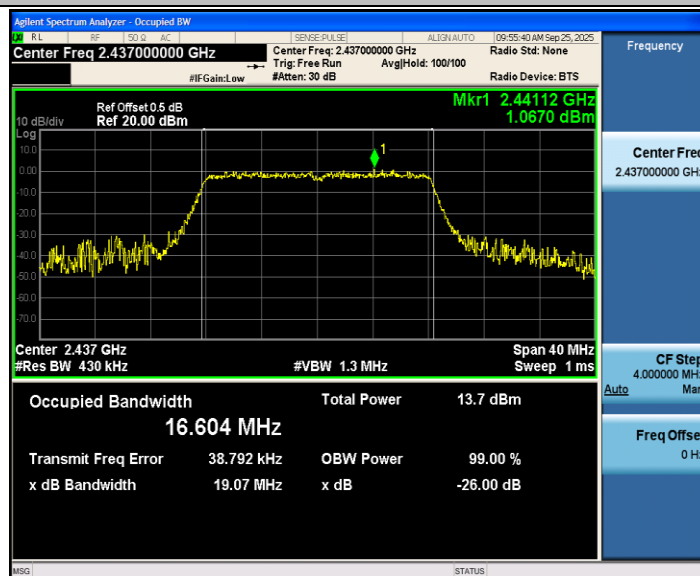
11B_Ant1_2462



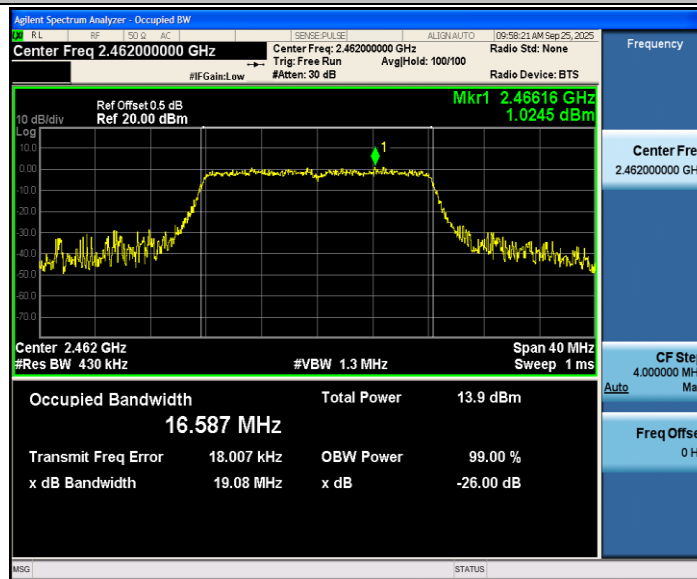
11G_Ant1_2412



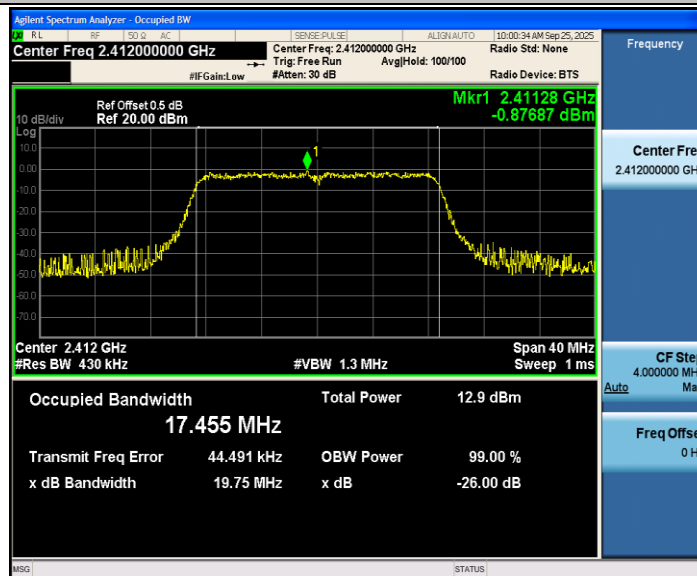
11G_Ant1_2437



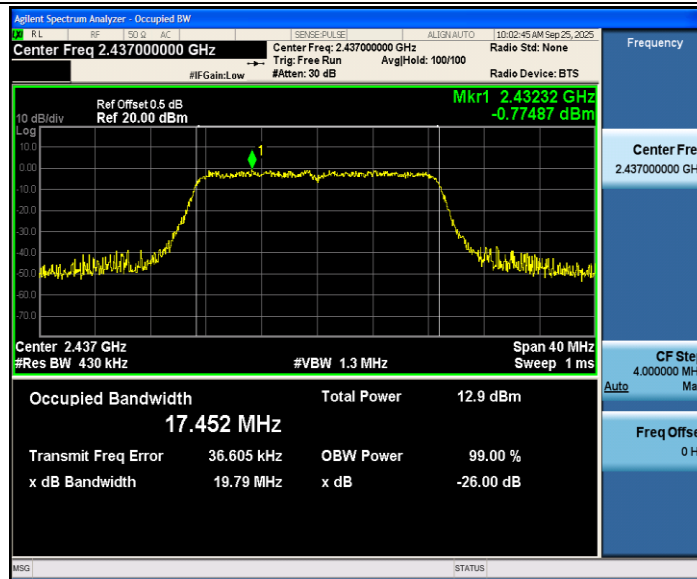
11G_Ant1_2462



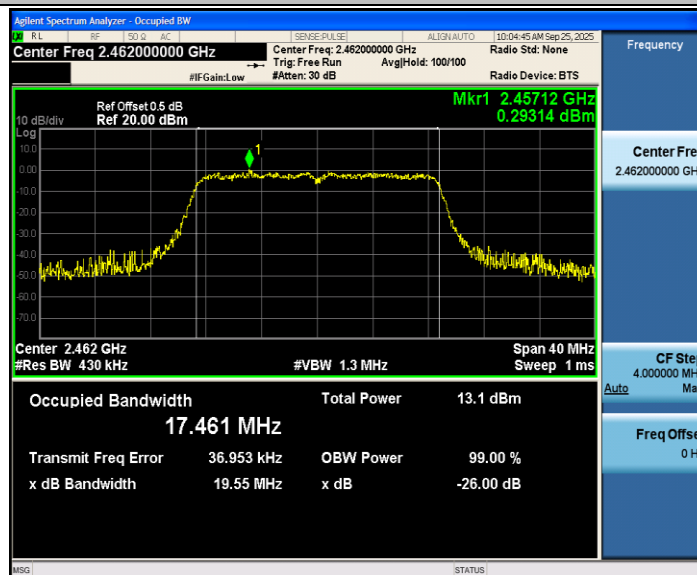
11N20SISO_Ant1_2412



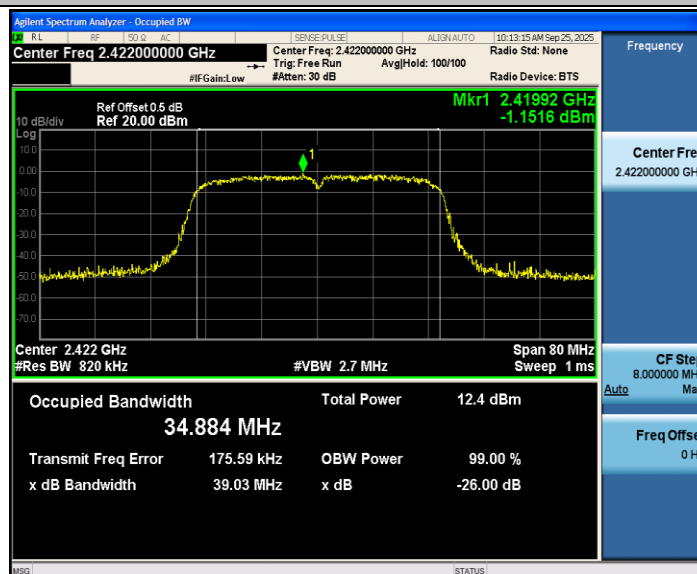
11N20SISO_Ant1_2437



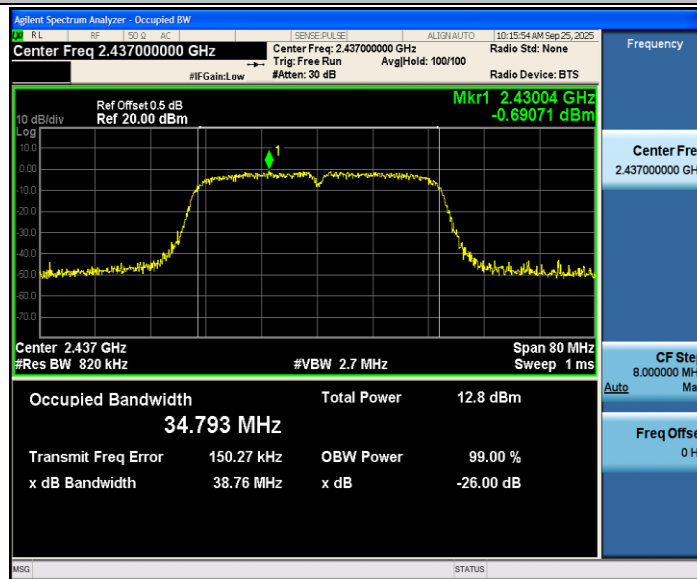
11N20SISO_Ant1_2462



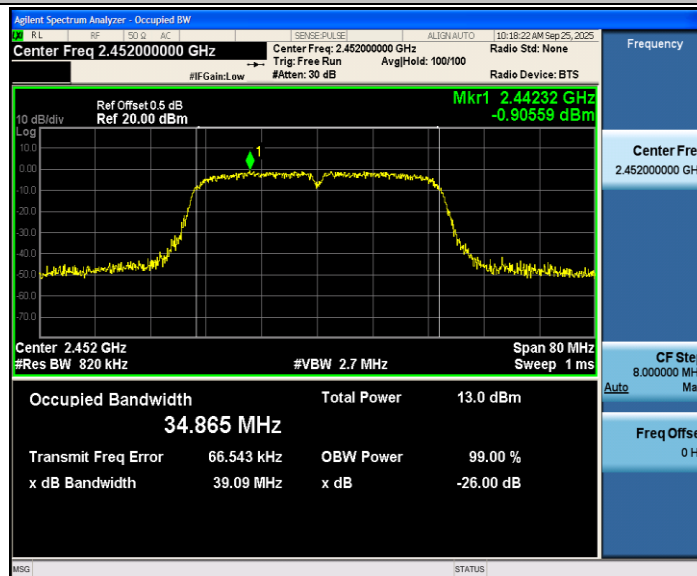
11N40SISO_Ant1_2422



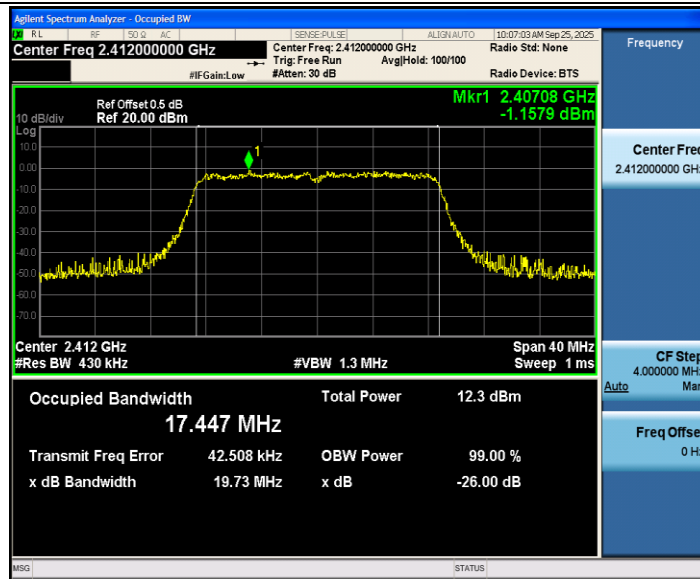
11N40SISO_Ant1_2437



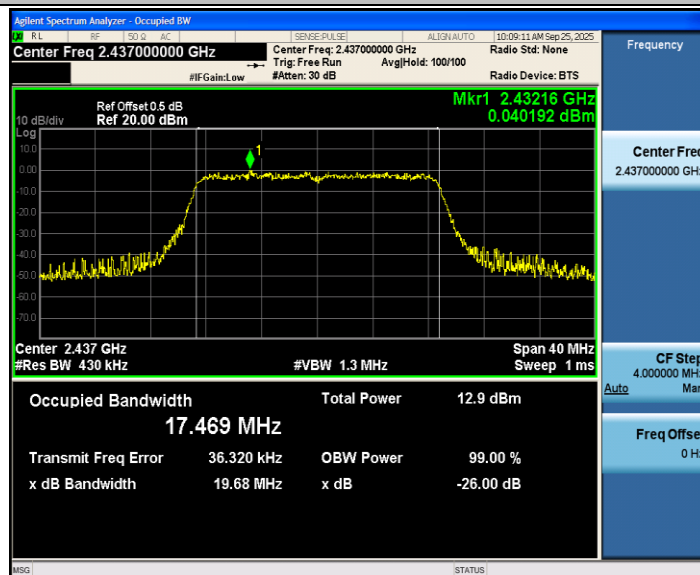
11N40SISO_Ant1_2452



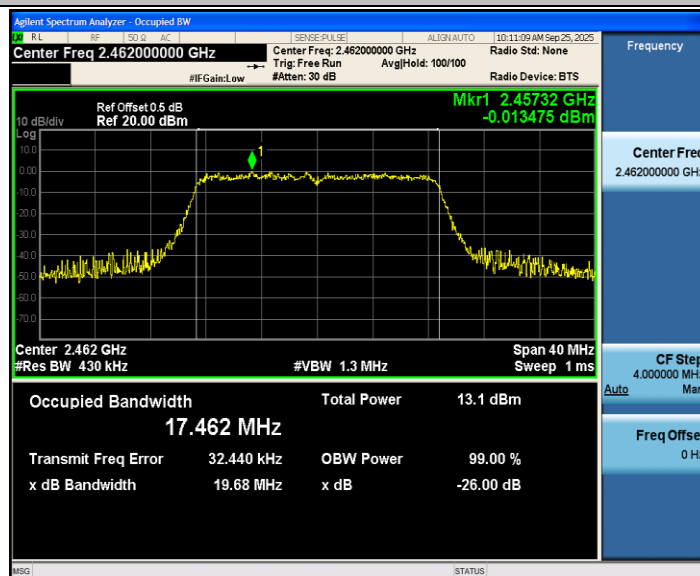
11AX20SISO_Ant1_2412



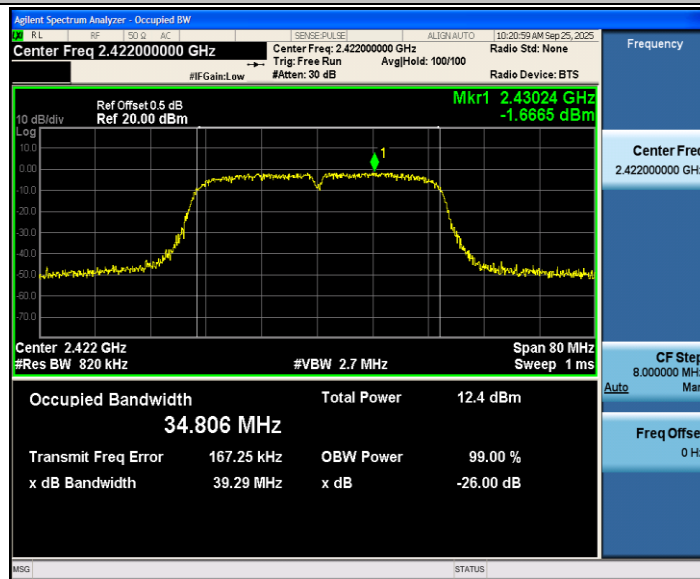
11AX20ISO_Ant1_2437



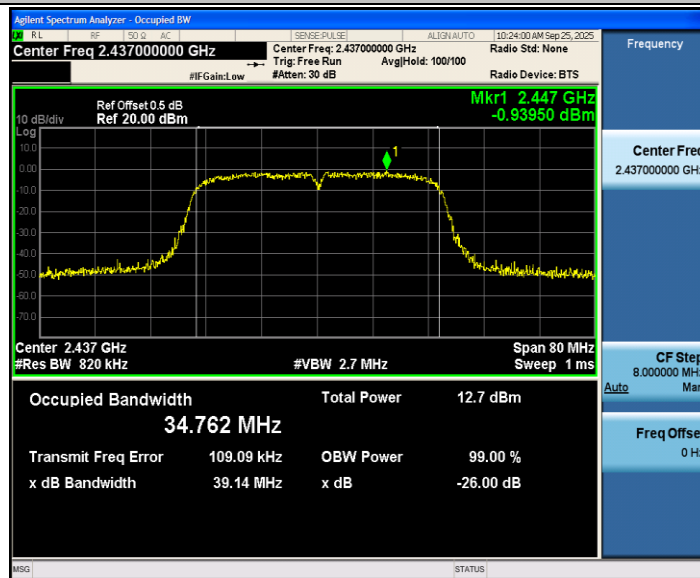
11AX20ISO_Ant1_2462



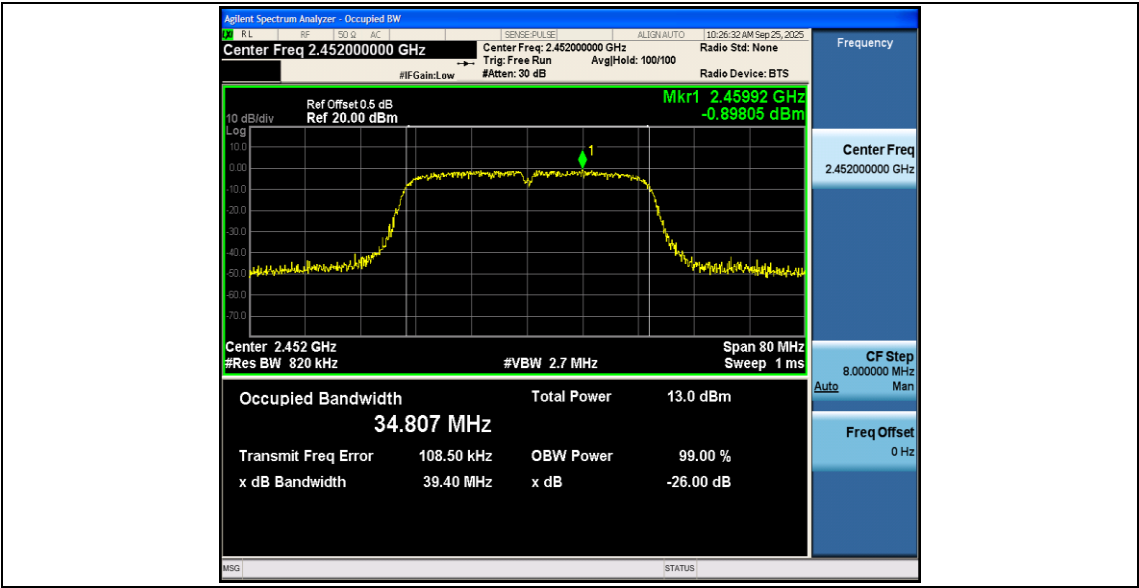
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Maximum Peak conducted output power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.33	≤30.00	PASS
		2437	14.21	≤30.00	PASS
		2462	14.35	≤30.00	PASS
11G	Ant1	2412	13.94	≤30.00	PASS
		2437	14.58	≤30.00	PASS
		2462	14.62	≤30.00	PASS
11N20SISO	Ant1	2412	14.12	≤30.00	PASS
		2437	14.02	≤30.00	PASS
		2462	14.23	≤30.00	PASS
11N40SISO	Ant1	2422	12.77	≤30.00	PASS
		2437	13.03	≤30.00	PASS
		2452	13.20	≤30.00	PASS
11AX20SISO	Ant1	2412	13.43	≤30.00	PASS
		2437	14.02	≤30.00	PASS
		2462	14.23	≤30.00	PASS
11AX40SISO	Ant1	2422	12.59	≤30.00	PASS
		2437	12.96	≤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	-15.50	≤8.00	PASS
		2437	-14.37	≤8.00	PASS
		2462	-14.37	≤8.00	PASS
11G	Ant1	2412	-20.50	≤8.00	PASS
		2437	-19.92	≤8.00	PASS
		2462	-19.69	≤8.00	PASS
11N20SISO	Ant1	2412	-19.98	≤8.00	PASS
		2437	-20.33	≤8.00	PASS
		2462	-20.20	≤8.00	PASS
11N40SISO	Ant1	2422	-22.51	≤8.00	PASS
		2437	-21.88	≤8.00	PASS
		2452	-22.25	≤8.00	PASS
11AX20SISO	Ant1	2412	-20.71	≤8.00	PASS
		2437	-20.26	≤8.00	PASS
		2462	-20.35	≤8.00	PASS
11AX40SISO	Ant1	2422	-21.79	≤8.00	PASS
		2437	-21.45	≤8.00	PASS
		2452	-21.68	≤8.00	PASS

Test Graphs

11B_Ant1_2412



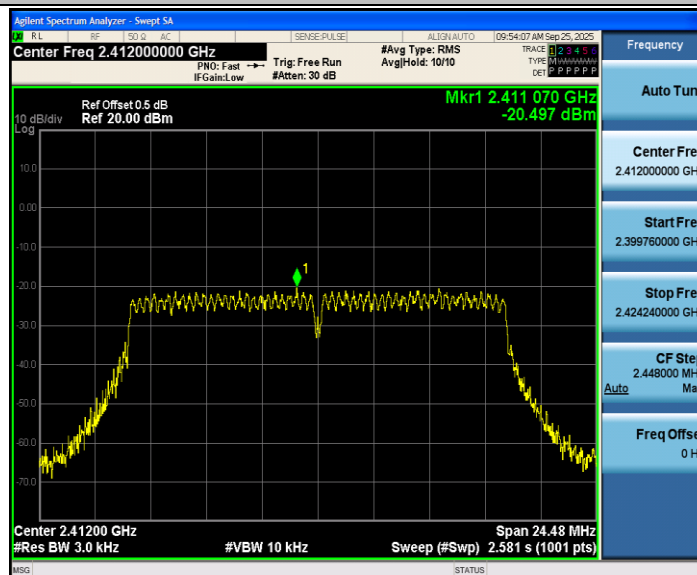
11B_Ant1_2437



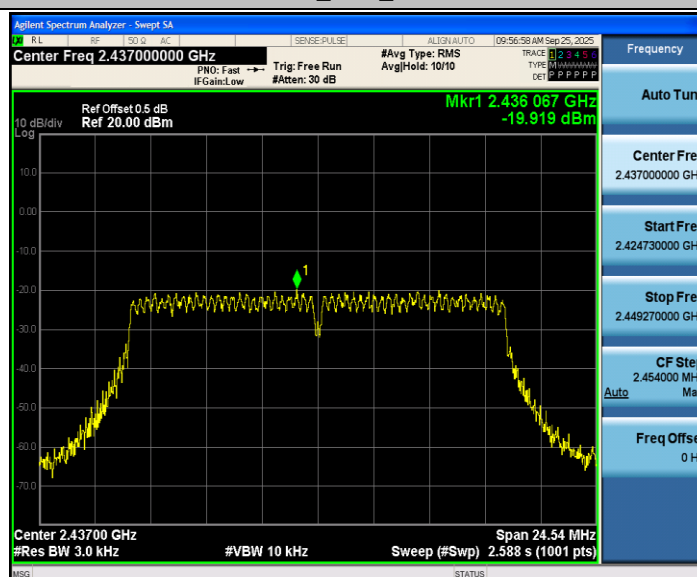
11B_Ant1_2462



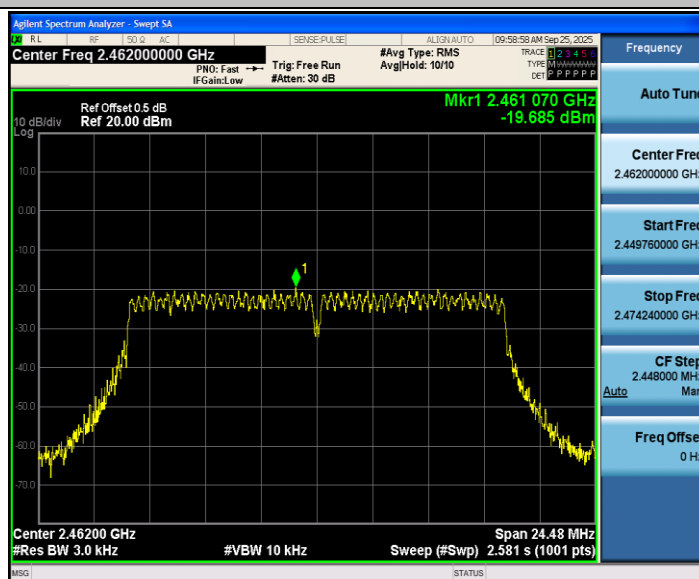
11G_Ant1_2412



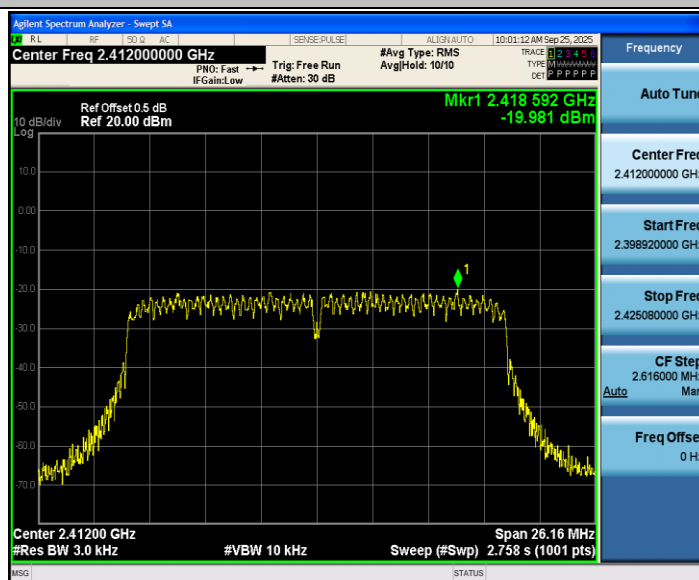
11G_Ant1_2437



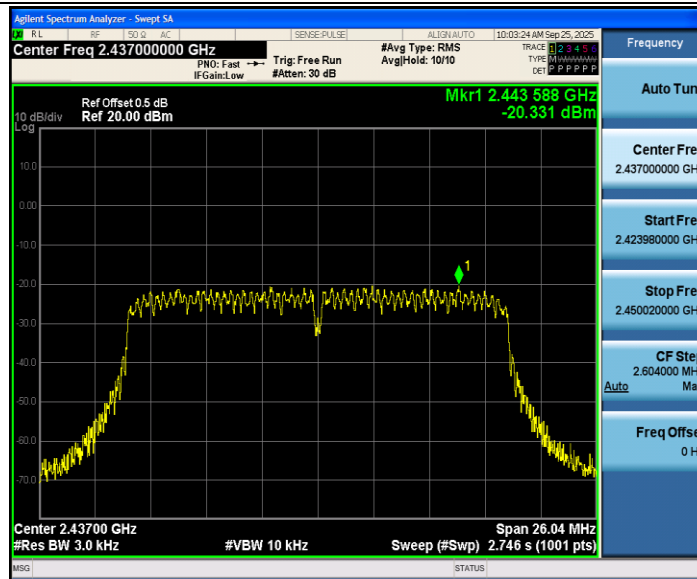
11G_Ant1_2462



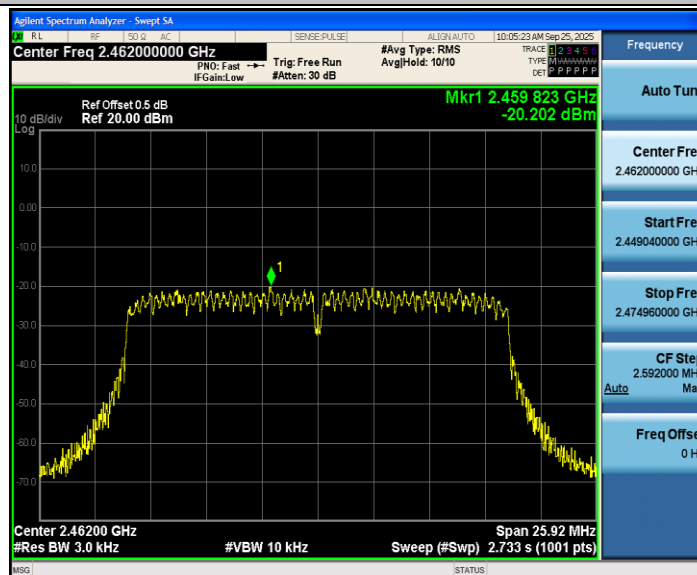
11N20SISO_Ant1_2412



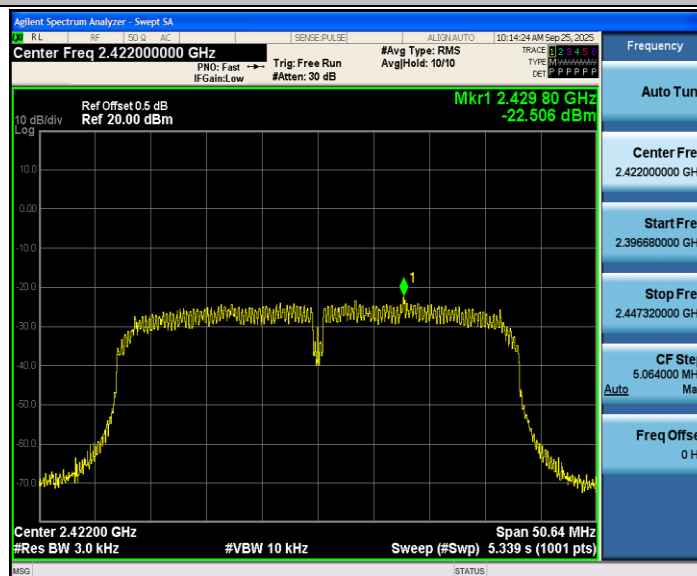
11N20SISO_Ant1_2437



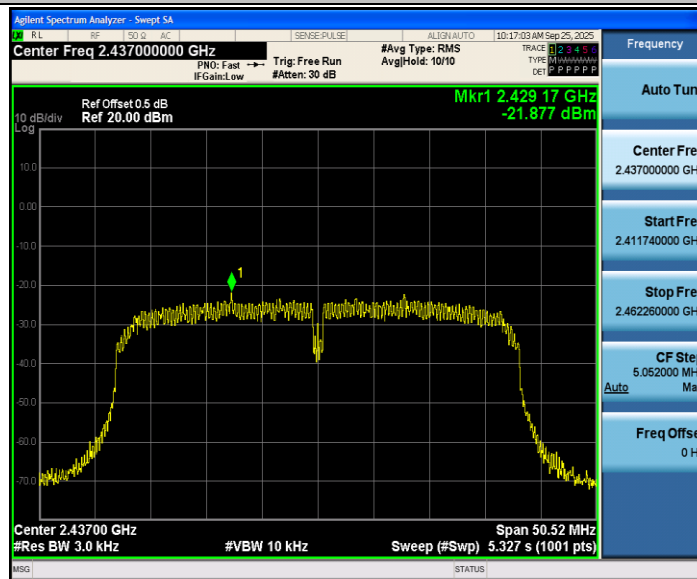
11N20SISO_Ant1_2462



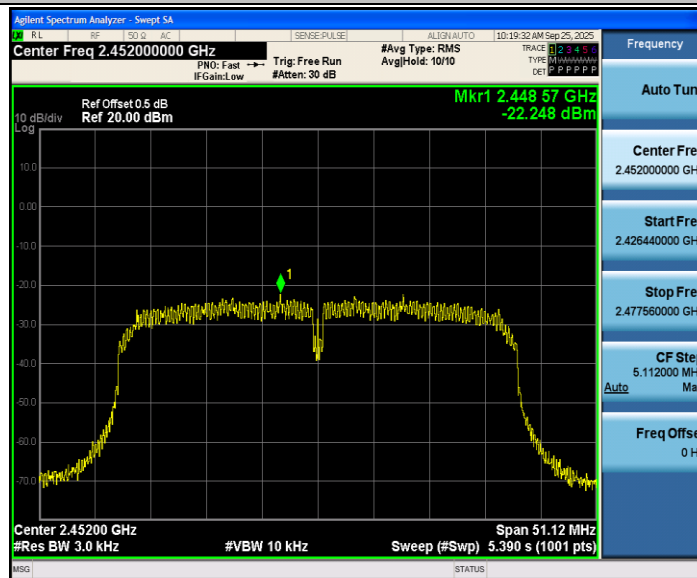
11N40SISO_Ant1_2422



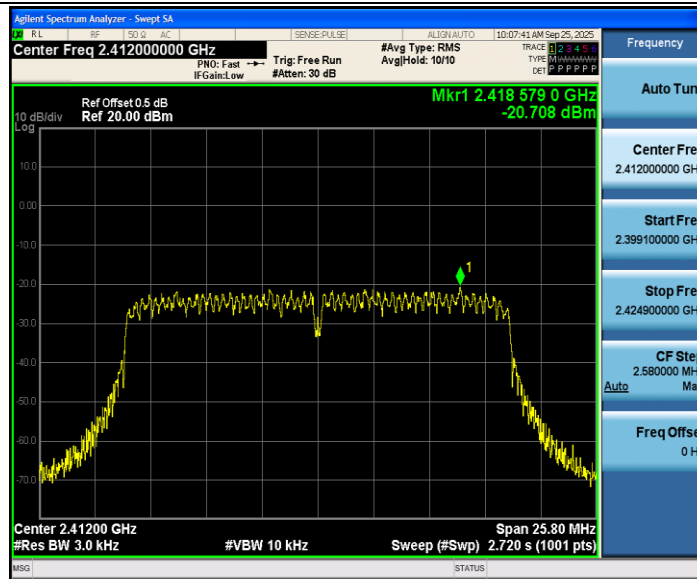
11N40SISO_Ant1_2437



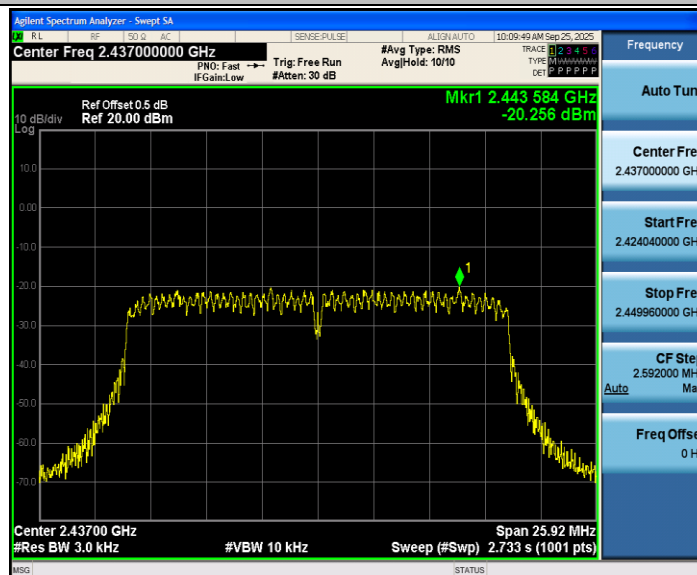
11N40SISO_Ant1_2452



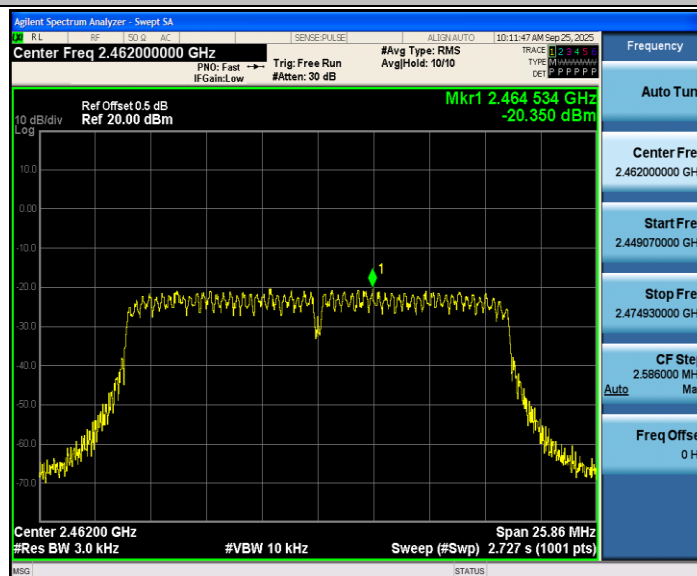
11AX20SISO_Ant1_2412



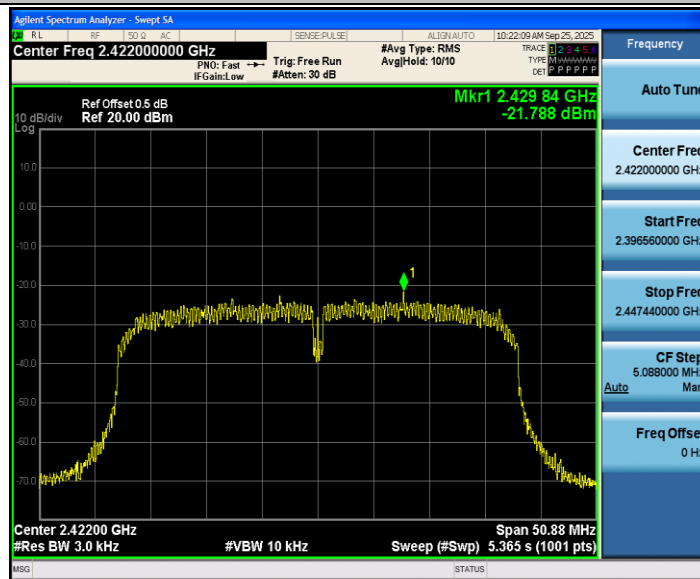
11AX20SISO_Ant1_2437



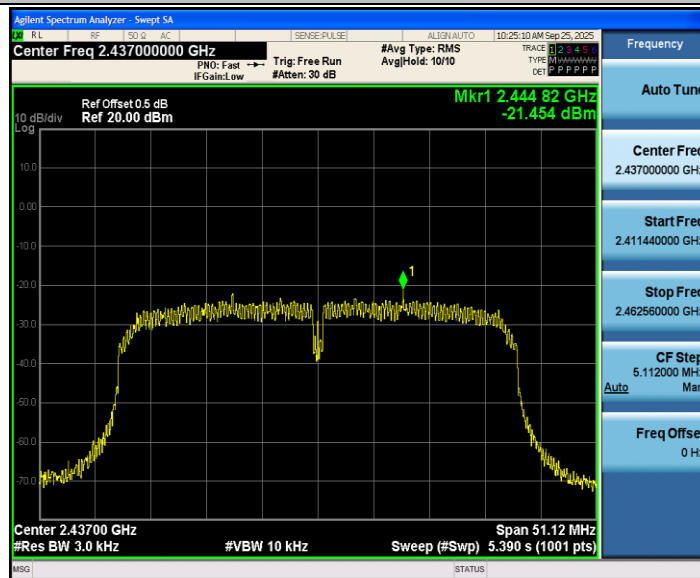
11AX20SISO_Ant1_2462



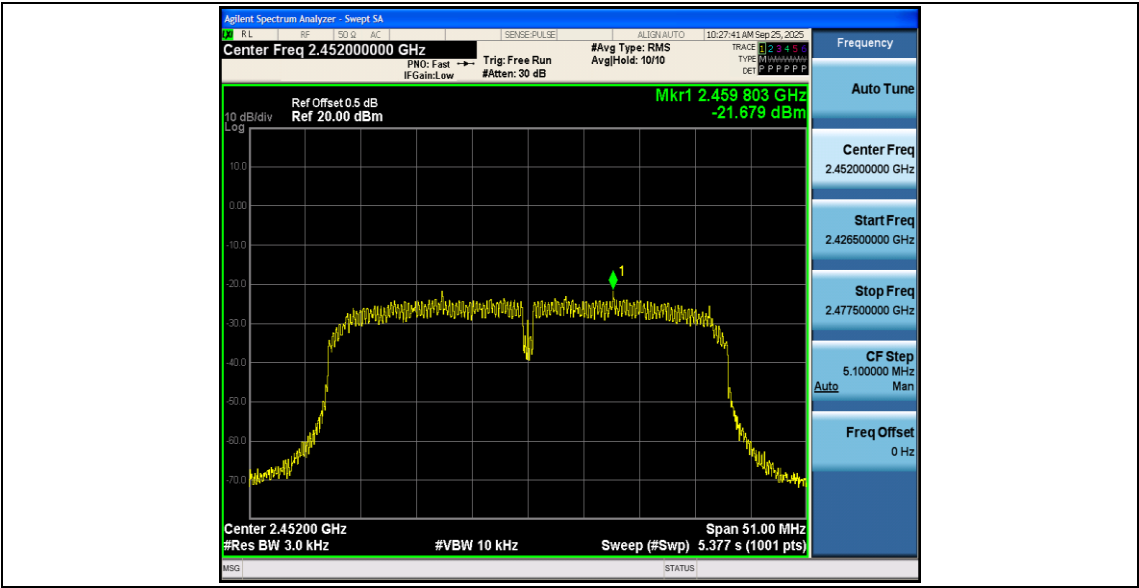
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



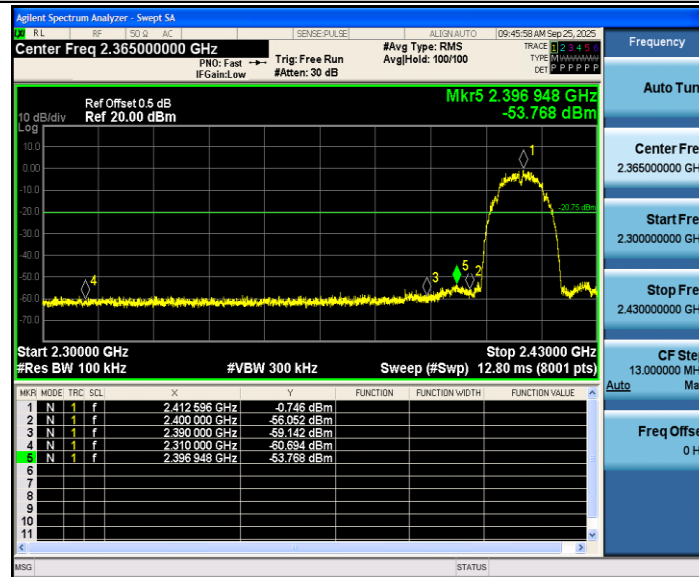
Appendix E: Band edge measurements

Test Result

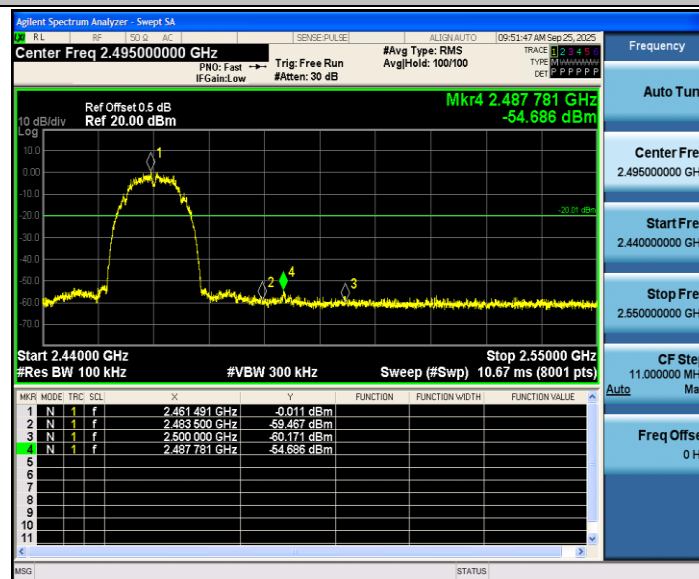
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.75	-53.77	≤-20.75	PASS
		High	2462	-0.01	-54.69	≤-20.01	PASS
11G	Ant1	Low	2412	-6.72	-41.76	≤-26.72	PASS
		High	2462	-5.69	-51.56	≤-25.69	PASS
11N20SISO	Ant1	Low	2412	-6.53	-45.51	≤-26.53	PASS
		High	2462	-6.66	-54.66	≤-26.66	PASS
11N40SISO	Ant1	Low	2422	-10.36	-50.23	≤-30.36	PASS
		High	2452	-9.72	-52.46	≤-29.72	PASS
11AX20SISO	Ant1	Low	2412	-7.37	-49.4	≤-27.37	PASS
		High	2462	-6.04	-53.93	≤-26.04	PASS
11AX40SISO	Ant1	Low	2422	-10.30	-51.23	≤-30.3	PASS
		High	2452	-10.26	-52.87	≤-30.26	PASS

Test Graphs

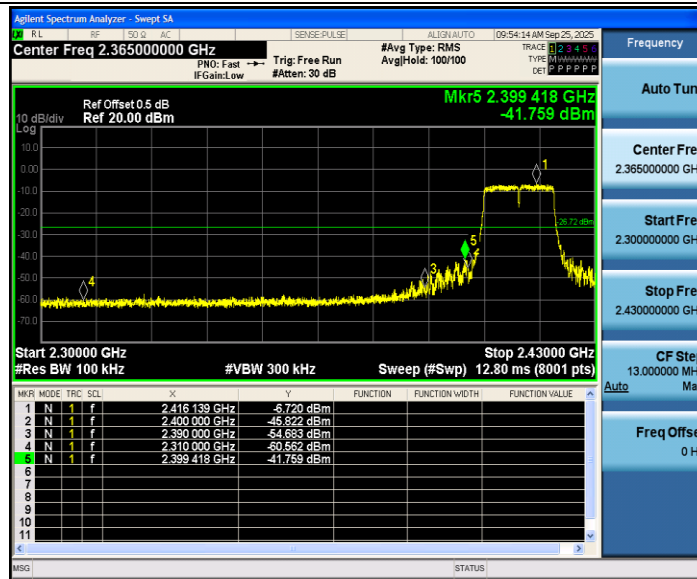
11B_Ant1_Low_2412



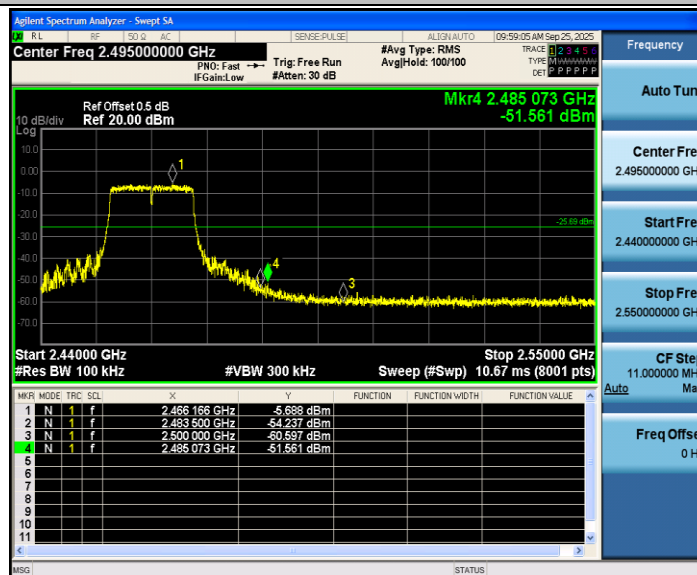
11B_Ant1_High_2462



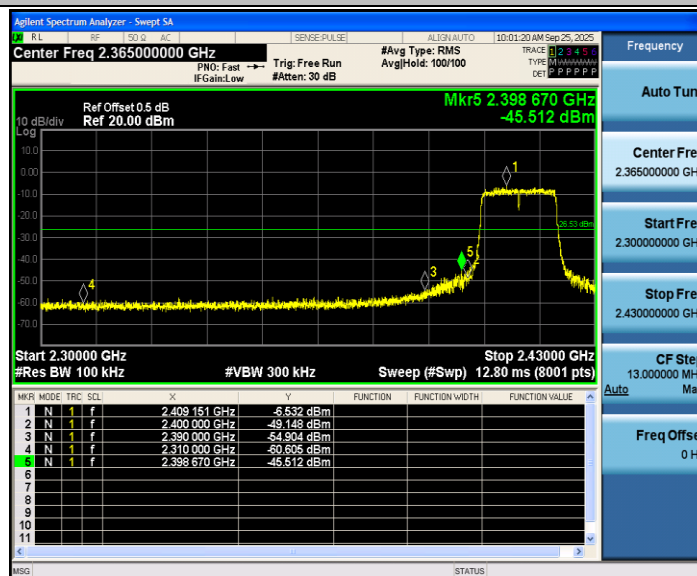
11G_Ant1_Low_2412



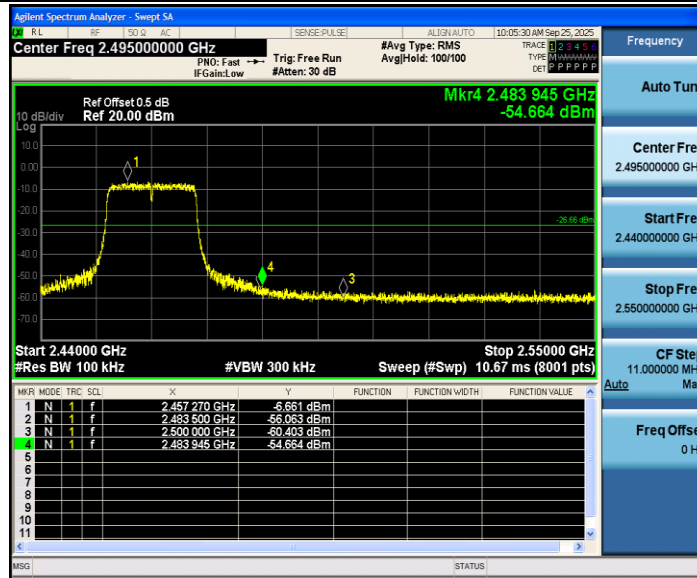
11G_Ant1_High_2462



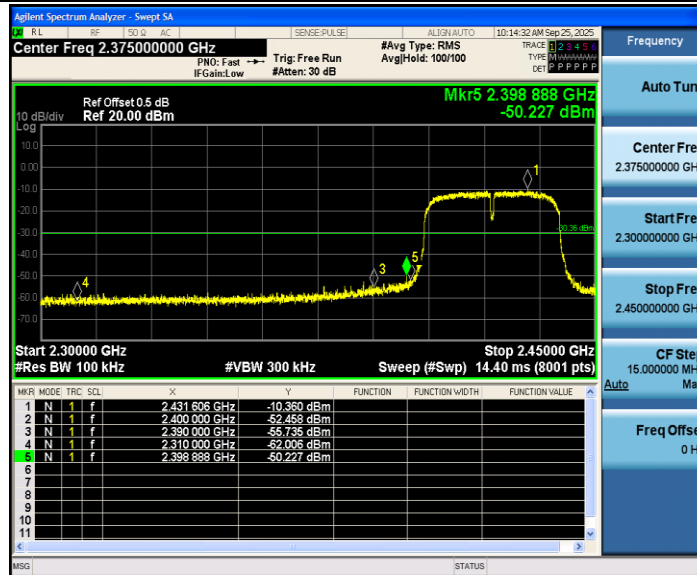
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452