

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2ATOW-TD-VH110X

Company : SHENZHEN TVT DIGITAL TECHNOLOGY CO.,LTD.

EUT : Video Intercom Indoor Station

Model Number : TE-VH1104S1

Report No. : CTA25091300401

Reviewed By : Eric Wang

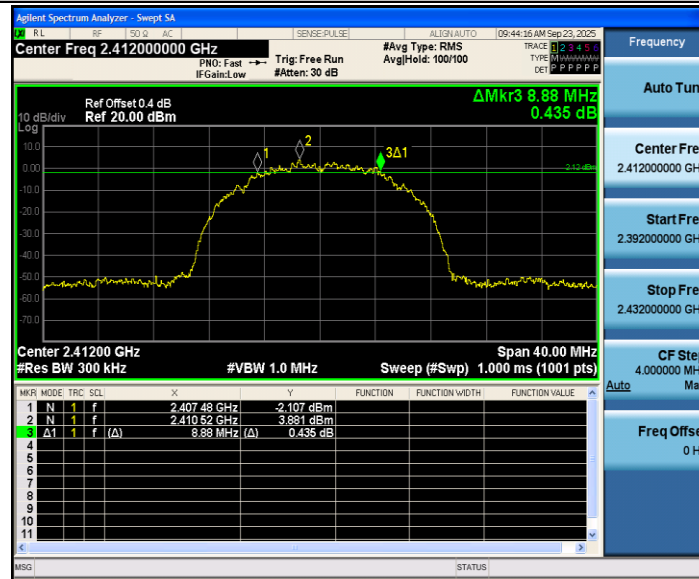
Appendix A: DTS Bandwidth

Test Result

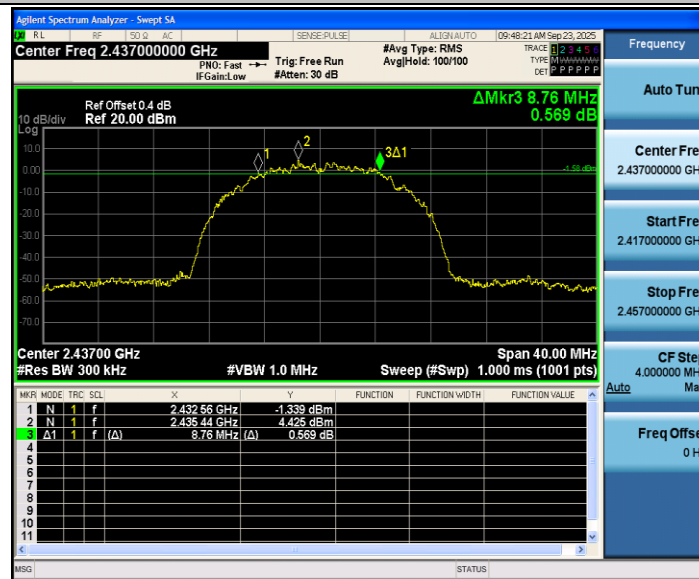
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.880	2407.480	2416.360	0.5	PASS
		2437	8.760	2432.560	2441.320	0.5	PASS
		2462	8.680	2457.560	2466.240	0.5	PASS
11G	Ant1	2412	16.280	2403.920	2420.200	0.5	PASS
		2437	16.280	2428.920	2445.200	0.5	PASS
		2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.280	2403.400	2420.680	0.5	PASS
		2437	17.400	2428.360	2445.760	0.5	PASS
		2462	17.440	2453.320	2470.760	0.5	PASS
11N40SISO	Ant1	2422	33.680	2405.440	2439.120	0.5	PASS
		2437	33.920	2420.280	2454.200	0.5	PASS
		2452	33.520	2435.520	2469.040	0.5	PASS

Test Graphs

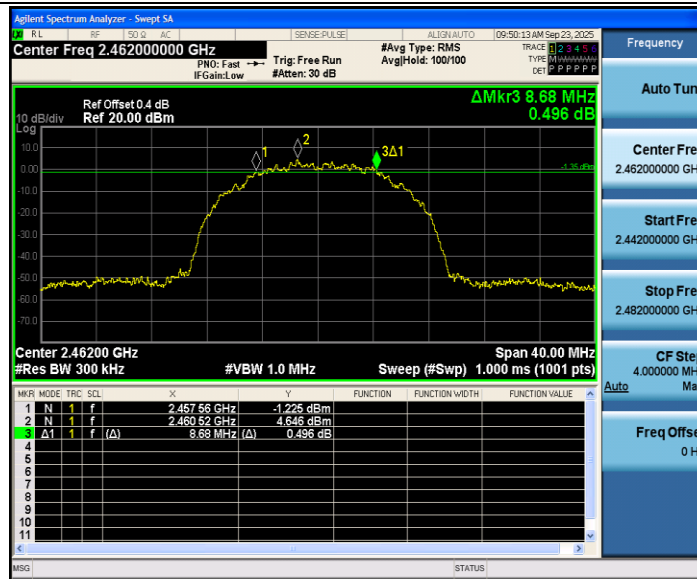
11B_Ant1_2412



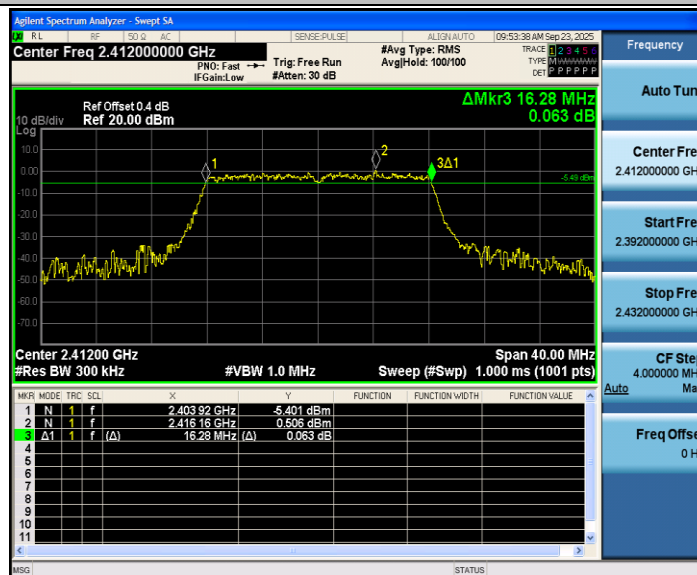
11B_Ant1_2437



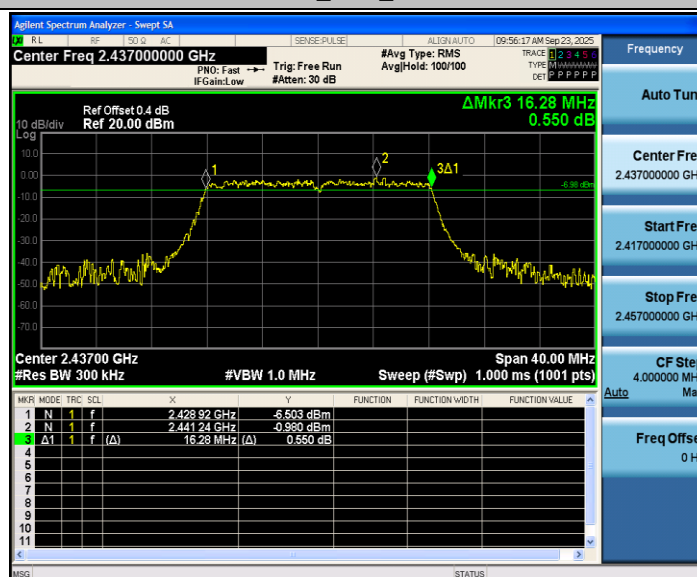
11B_Ant1_2462

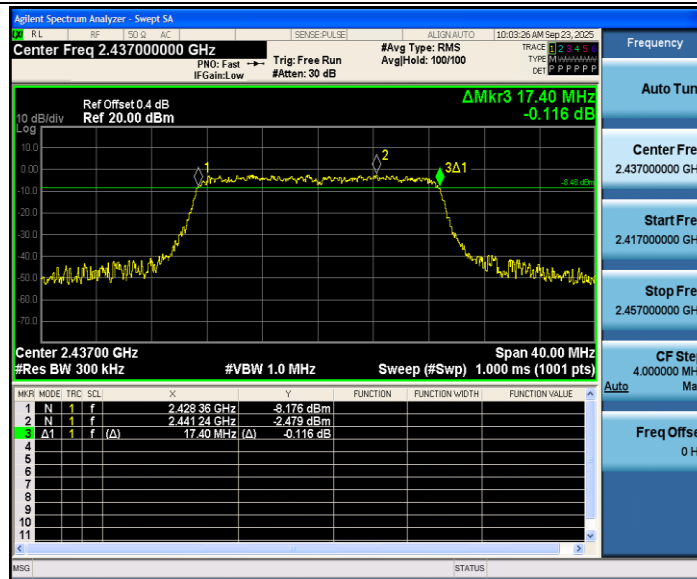


11G_Ant1_2412

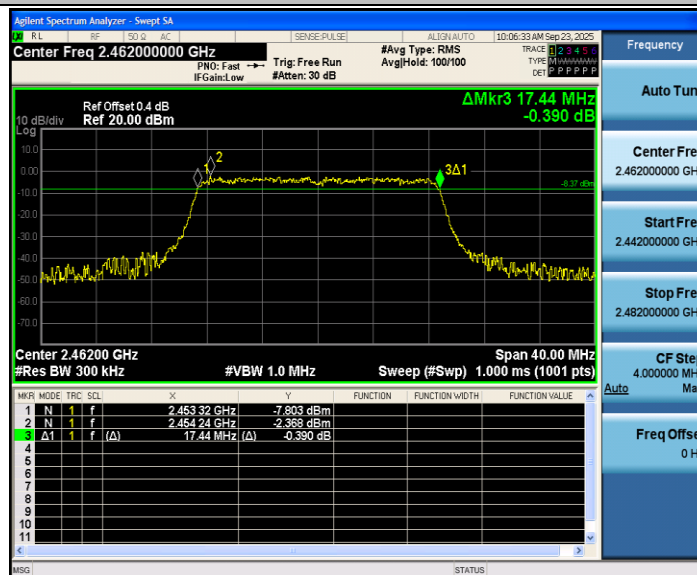


11G_Ant1_2437





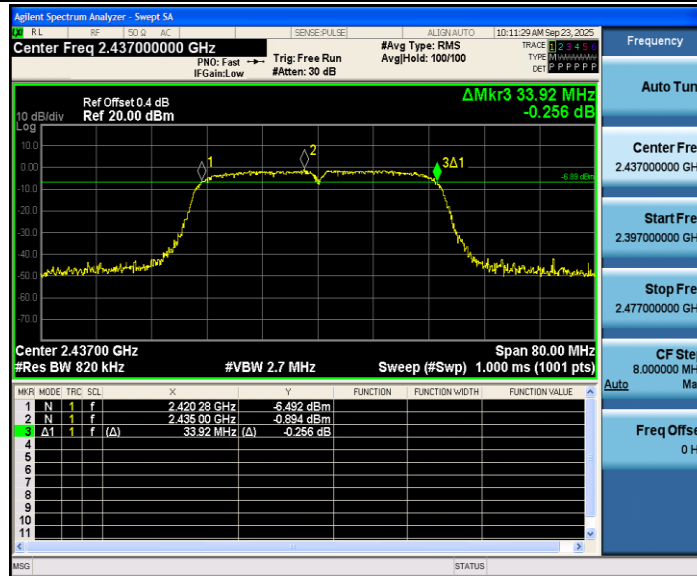
11N20SISO_Ant1_2462



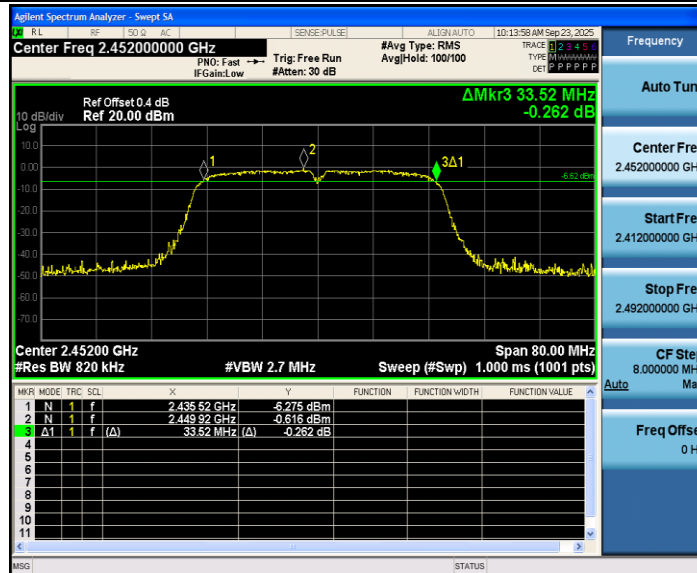
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



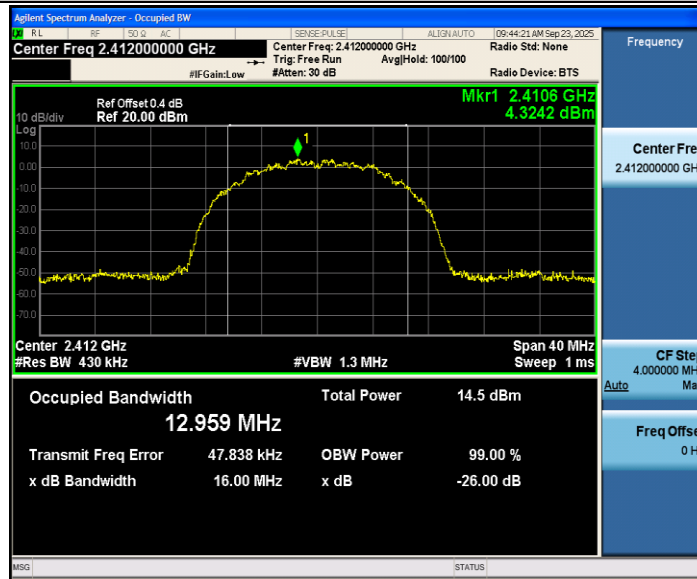
Appendix B: Occupied Channel Bandwidth

Test Result

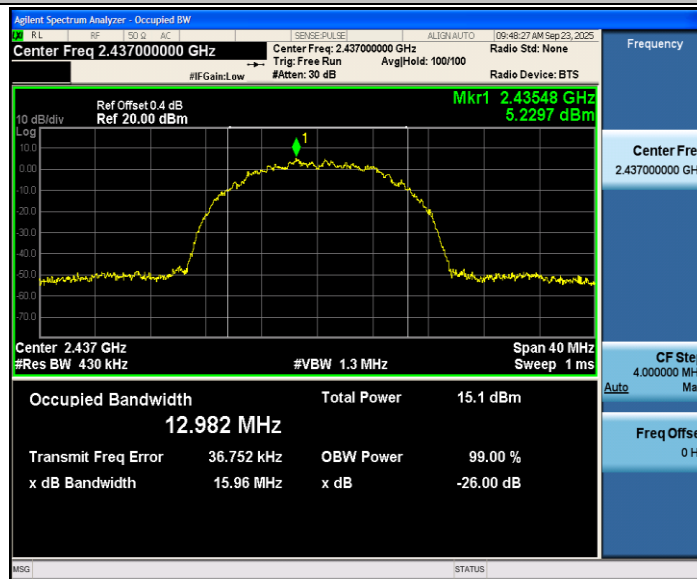
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.959	2405.5683	2418.5273	---	---
		2437	12.982	2430.5458	2443.5278	---	---
		2462	13.007	2455.5127	2468.5197	---	---
11G	Ant1	2412	16.571	2403.7639	2420.3349	---	---
		2437	16.550	2428.7768	2445.3268	---	---
		2462	16.578	2453.7464	2470.3244	---	---
11N20SISO	Ant1	2412	17.426	2403.3443	2420.7703	---	---
		2437	17.441	2428.3301	2445.7711	---	---
		2462	17.440	2453.3068	2470.7468	---	---
11N40SISO	Ant1	2422	34.826	2404.7590	2439.5850	---	---
		2437	34.745	2419.7735	2454.5185	---	---
		2452	34.797	2434.7284	2469.5254	---	---

Test Graphs

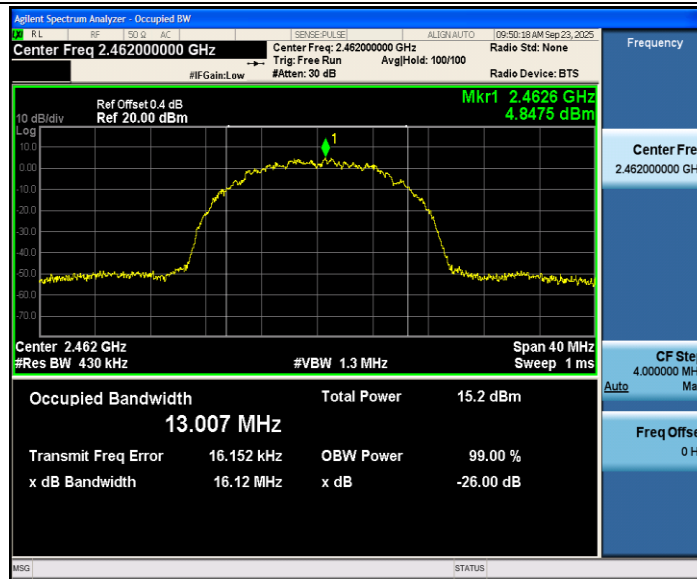
11B_Ant1_2412



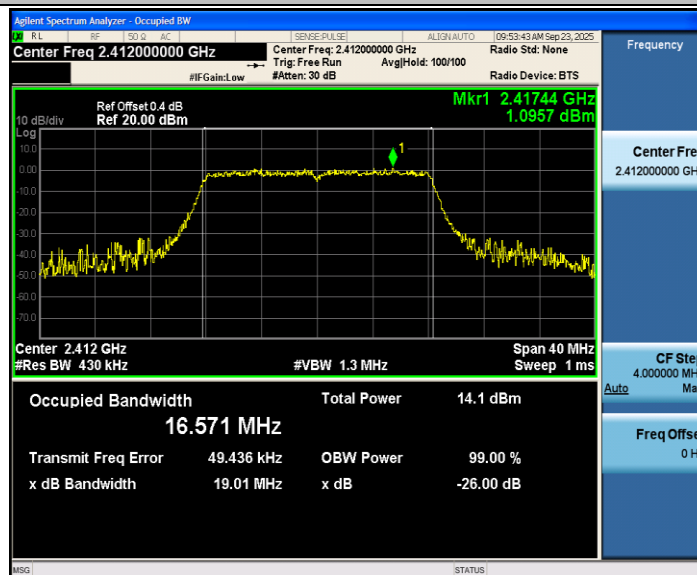
11B_Ant1_2437



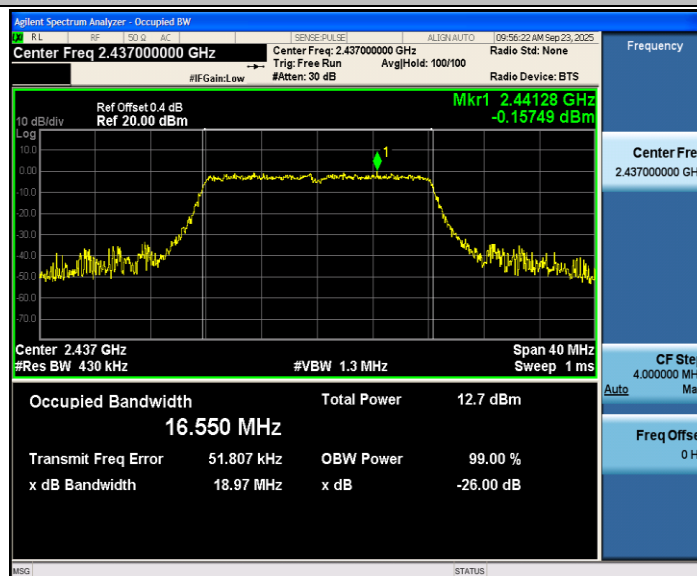
11B_Ant1_2462



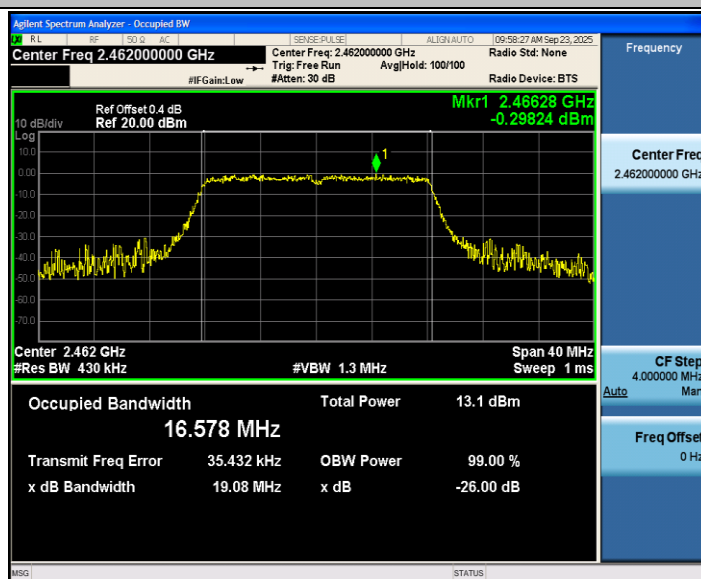
11G_Ant1_2412



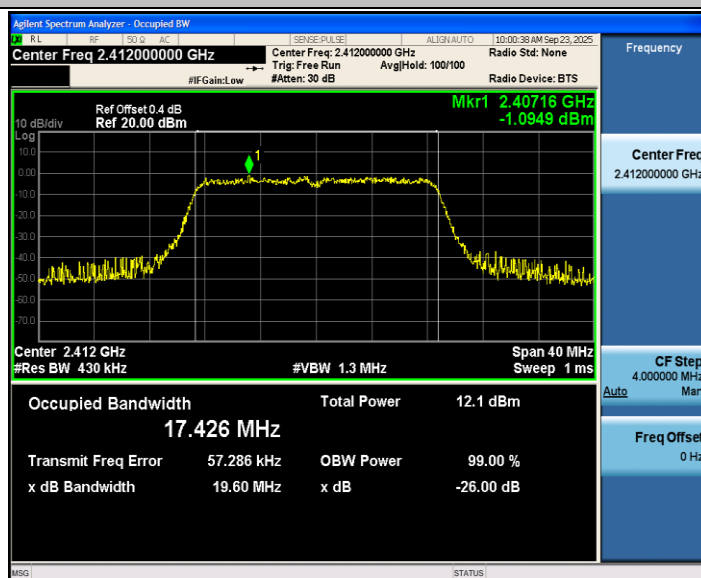
11G_Ant1_2437



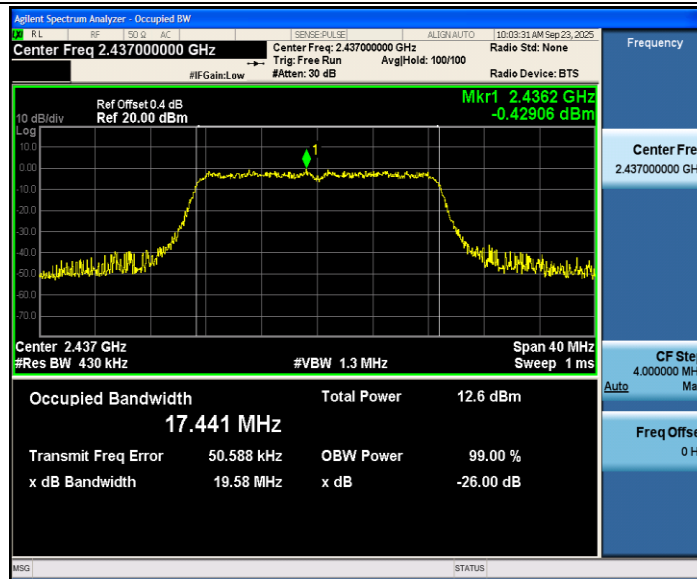
11G_Ant1_2462



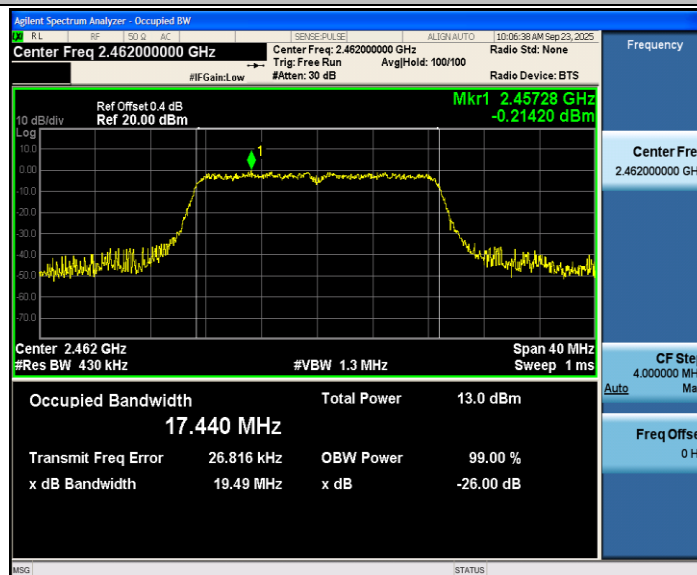
11N20SISO_Ant1_2412



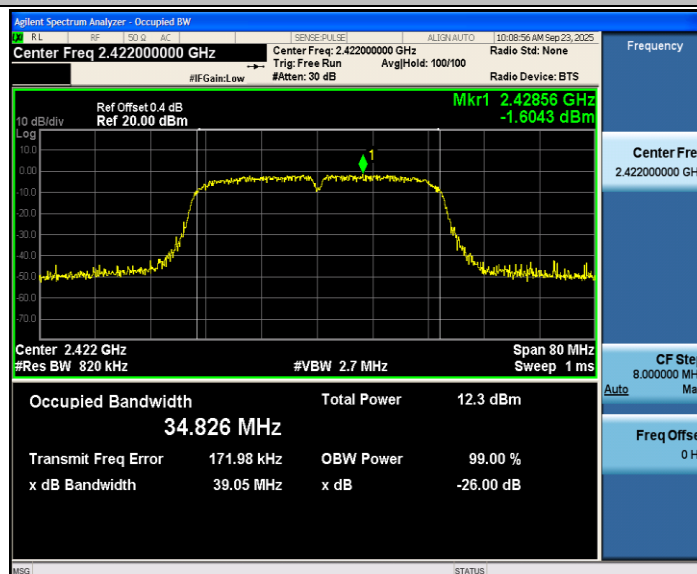
11N20SISO_Ant1_2437



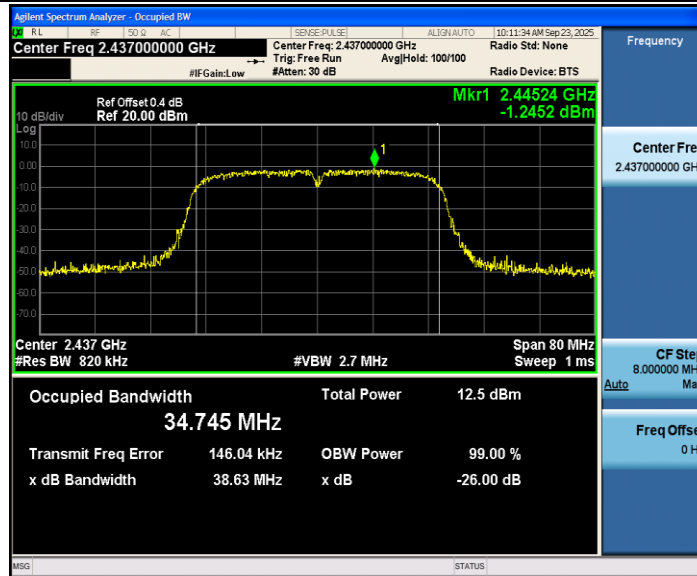
11N20SISO_Ant1_2462



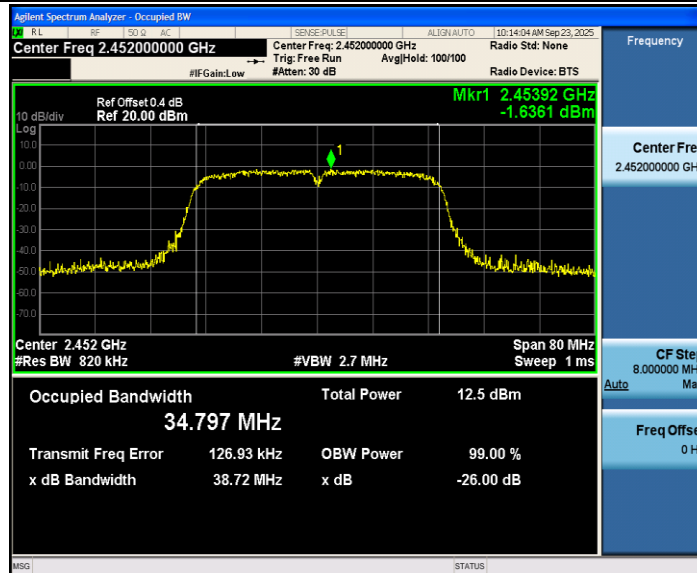
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.92	≤30.00	PASS
		2437	14.60	≤30.00	PASS
		2462	14.46	≤30.00	PASS
11G	Ant1	2412	13.19	≤30.00	PASS
		2437	13.51	≤30.00	PASS
		2462	13.91	≤30.00	PASS
11N20SISO	Ant1	2412	13.31	≤30.00	PASS
		2437	13.75	≤30.00	PASS
		2462	14.18	≤30.00	PASS
11N40SISO	Ant1	2422	12.51	≤30.00	PASS
		2437	12.66	≤30.00	PASS
		2452	12.78	≤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	-15.16	≤8.00	PASS
		2437	-14.18	≤8.00	PASS
		2462	-14.77	≤8.00	PASS
11G	Ant1	2412	-21.37	≤8.00	PASS
		2437	-20.90	≤8.00	PASS
		2462	-20.55	≤8.00	PASS
11N20SISO	Ant1	2412	-20.78	≤8.00	PASS
		2437	-20.52	≤8.00	PASS
		2462	-20.41	≤8.00	PASS
11N40SISO	Ant1	2422	-22.61	≤8.00	PASS
		2437	-22.31	≤8.00	PASS
		2452	-22.53	≤8.00	PASS

Test Graphs

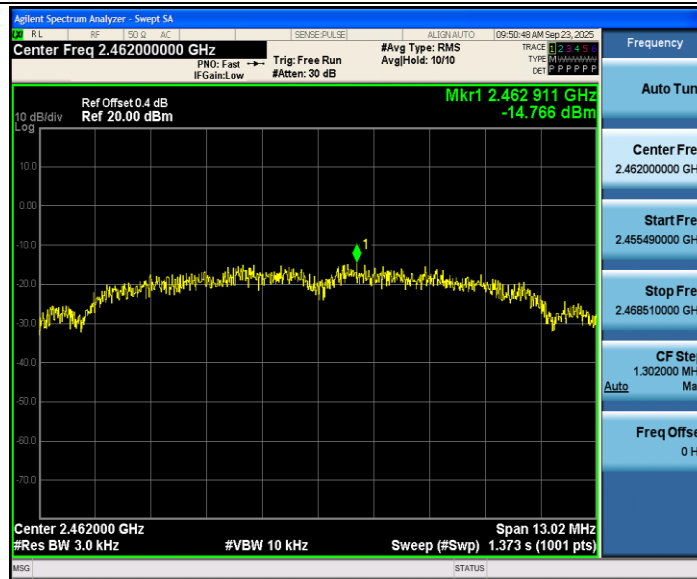
11B_Ant1_2412



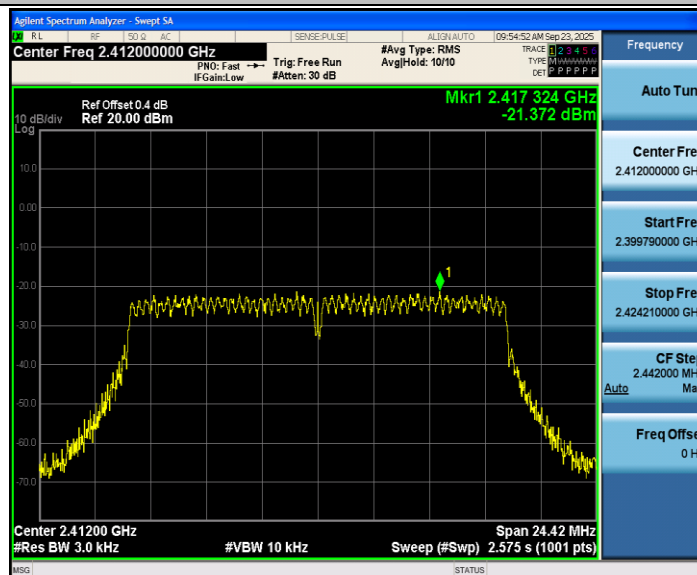
11B_Ant1_2437



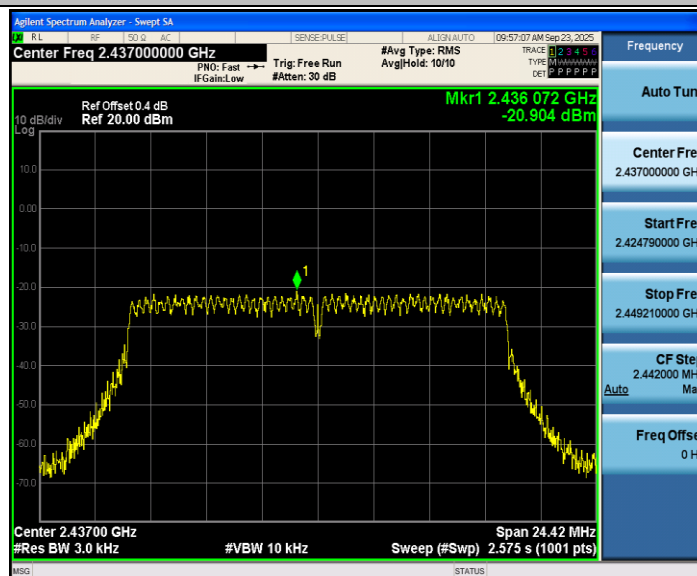
11B_Ant1_2462



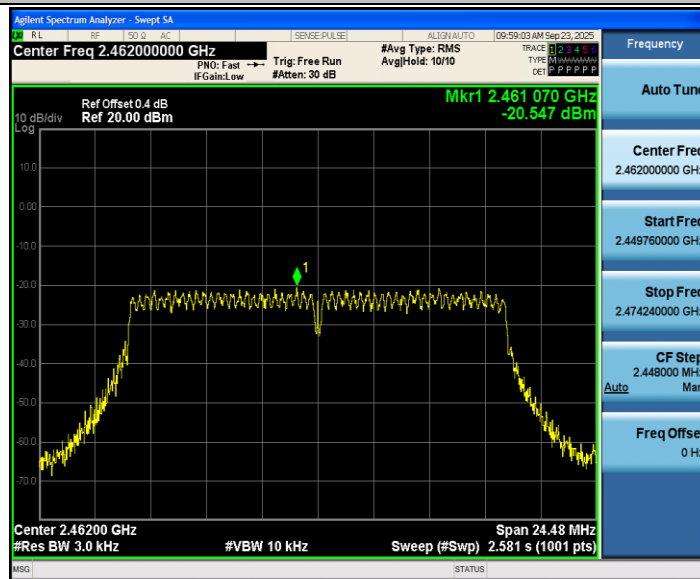
11G_Ant1_2412



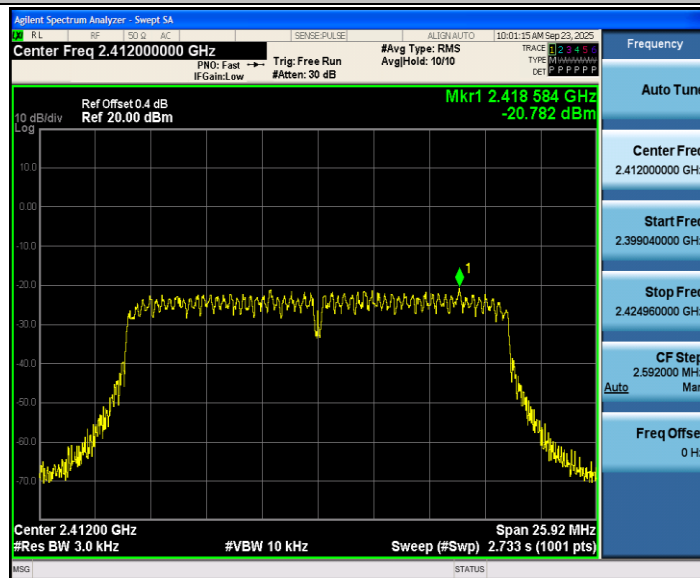
11G_Ant1_2437



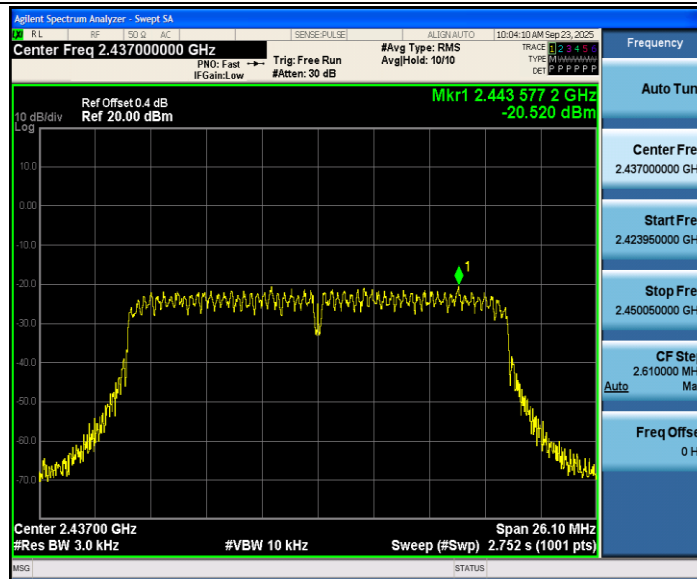
11G_Ant1_2462



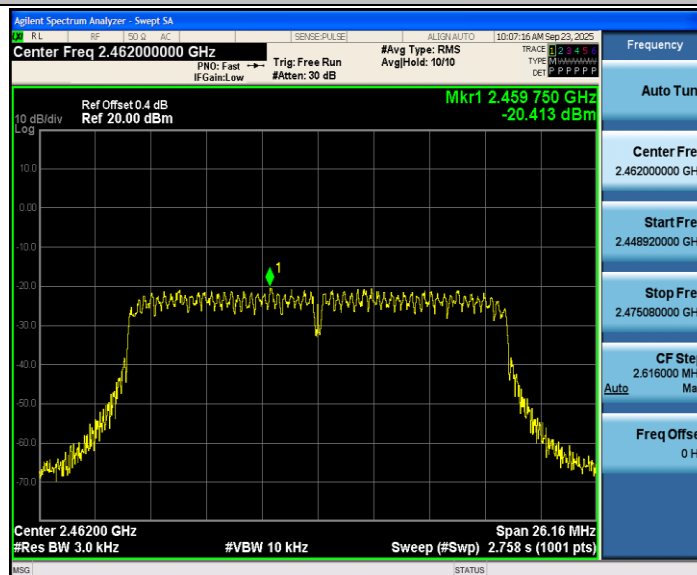
11N20SISO_Ant1_2412



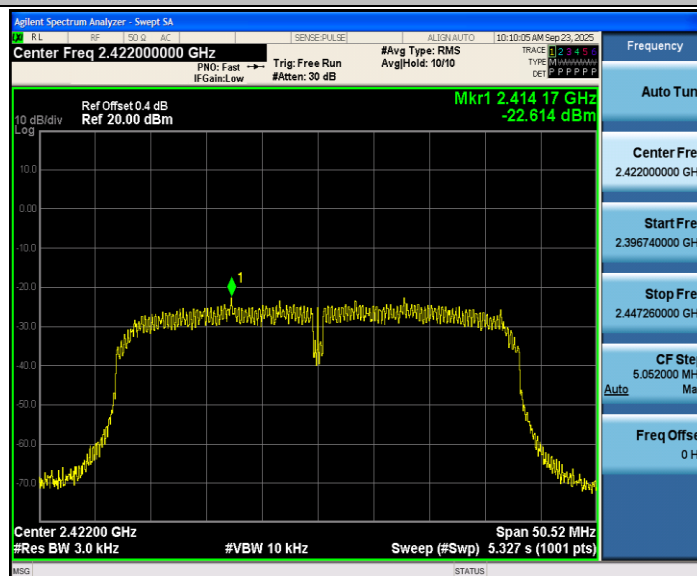
11N20SISO_Ant1_2437



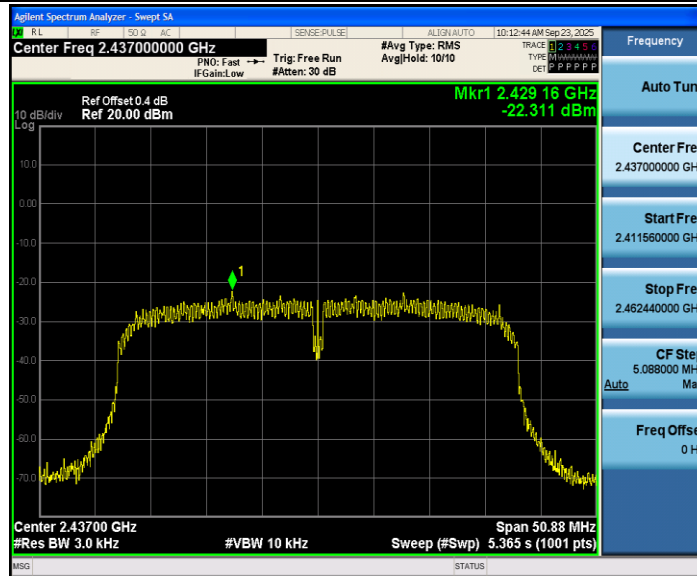
11N20SISO_Ant1_2462



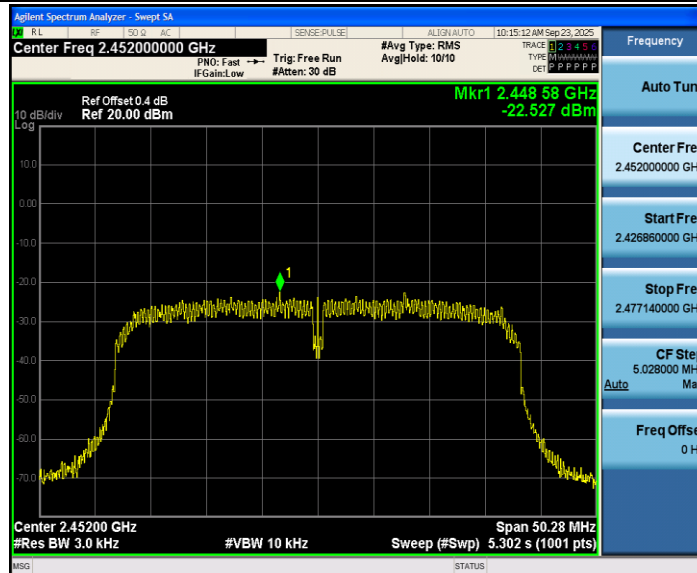
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



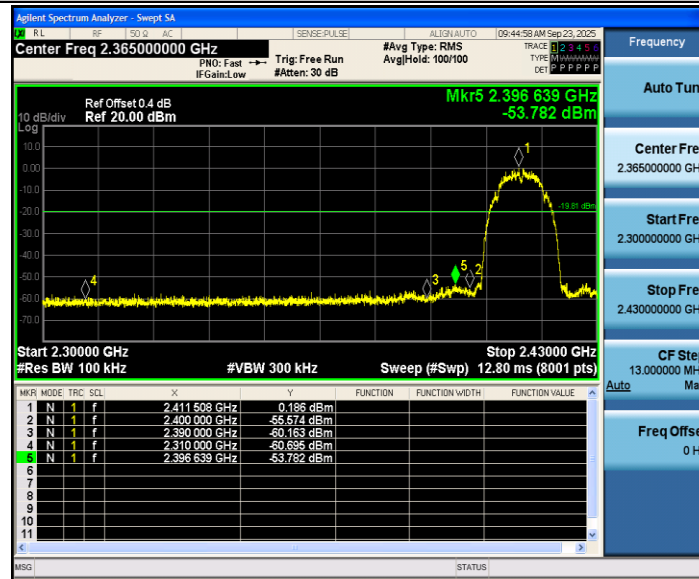
Appendix E: Band edge measurements

Test Result

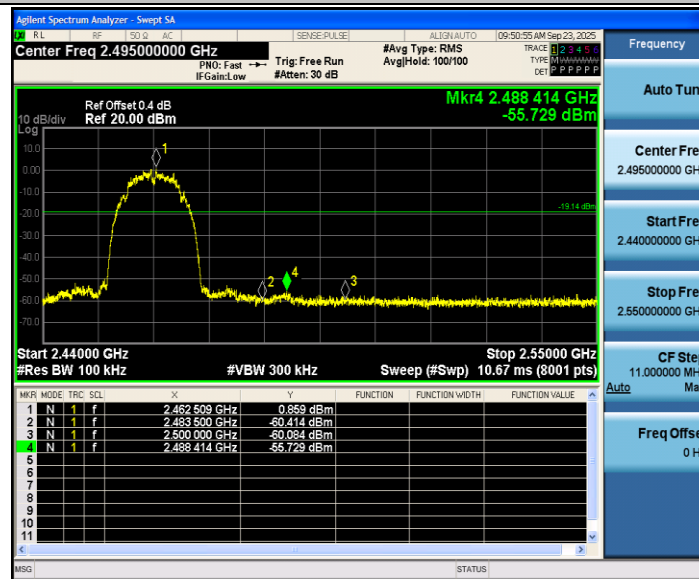
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.19	-53.78	≤-19.81	PASS
		High	2462	0.86	-55.73	≤-19.14	PASS
11G	Ant1	Low	2412	-7.59	-44.71	≤-27.59	PASS
		High	2462	-6.49	-52.2	≤-26.49	PASS
11N20SISO	Ant1	Low	2412	-7.51	-48.33	≤-27.51	PASS
		High	2462	-6.32	-52.87	≤-26.32	PASS
11N40SISO	Ant1	Low	2422	-10.46	-51.67	≤-30.46	PASS
		High	2452	-10.57	-53.79	≤-30.57	PASS

Test Graphs

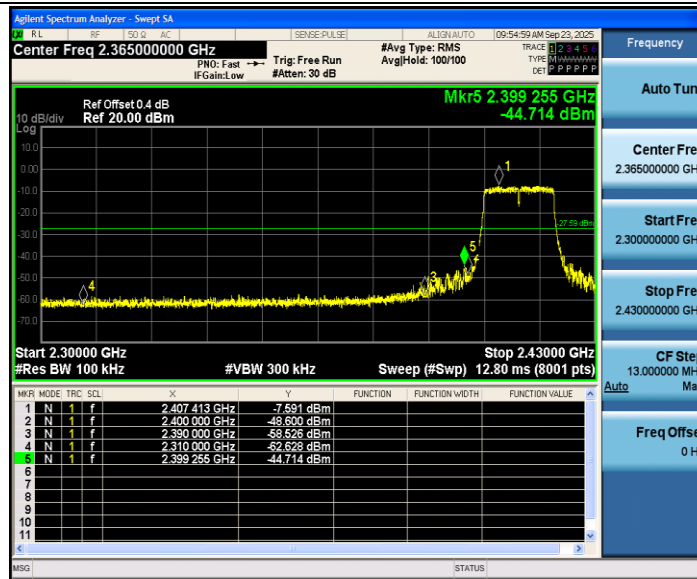
11B_Ant1_Low_2412



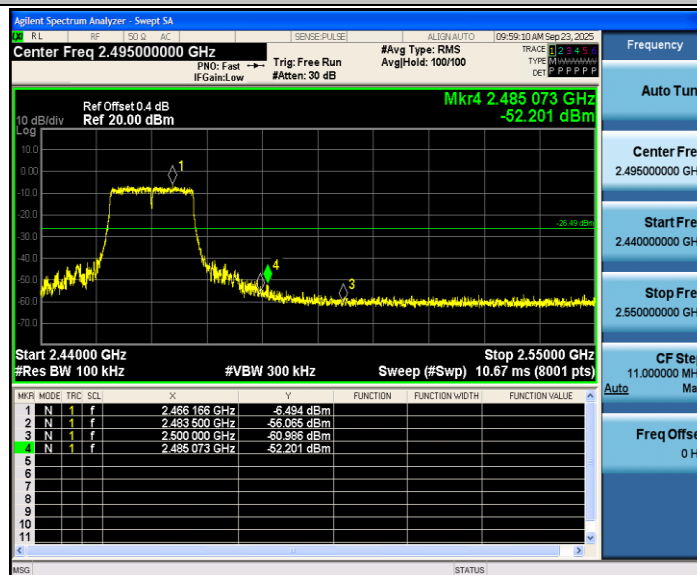
11B_Ant1_High_2462



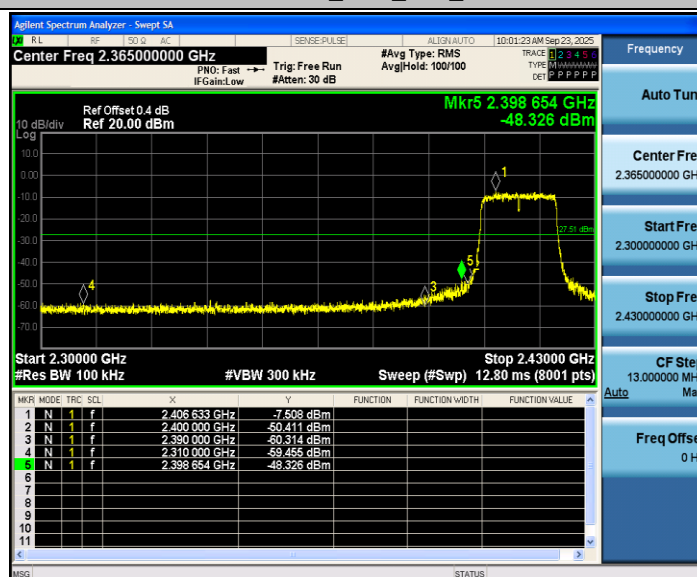
11G_Ant1_Low_2412



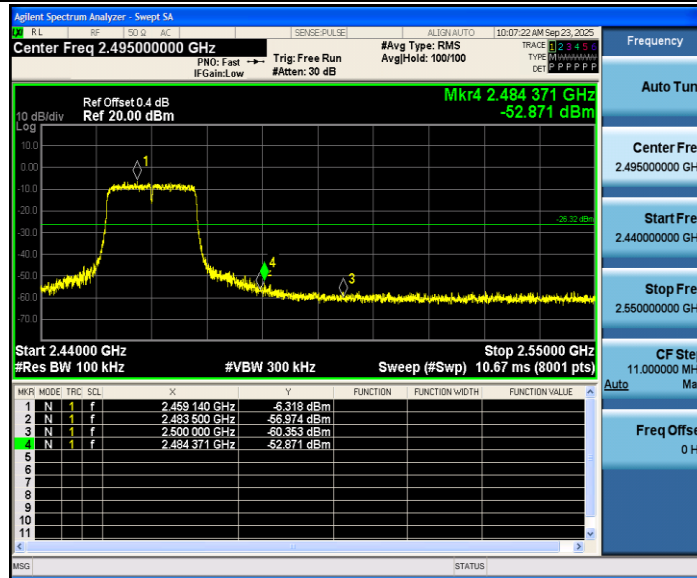
11G_Ant1_High_2462



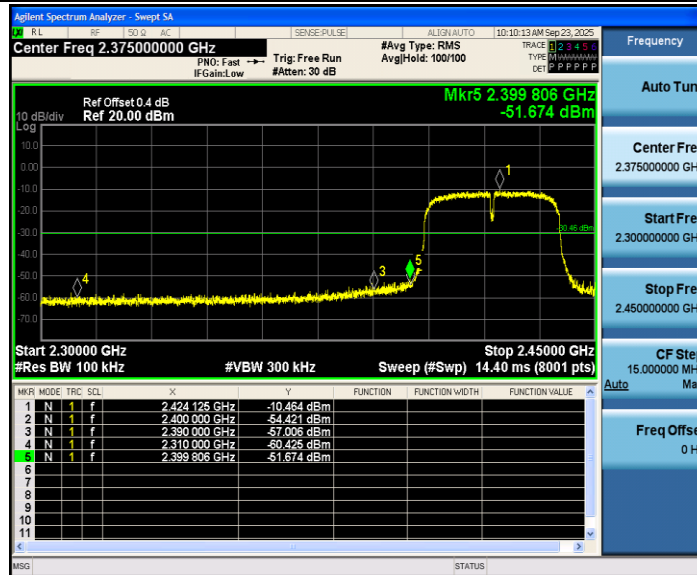
11N20SISO_Ant1_Low_2412



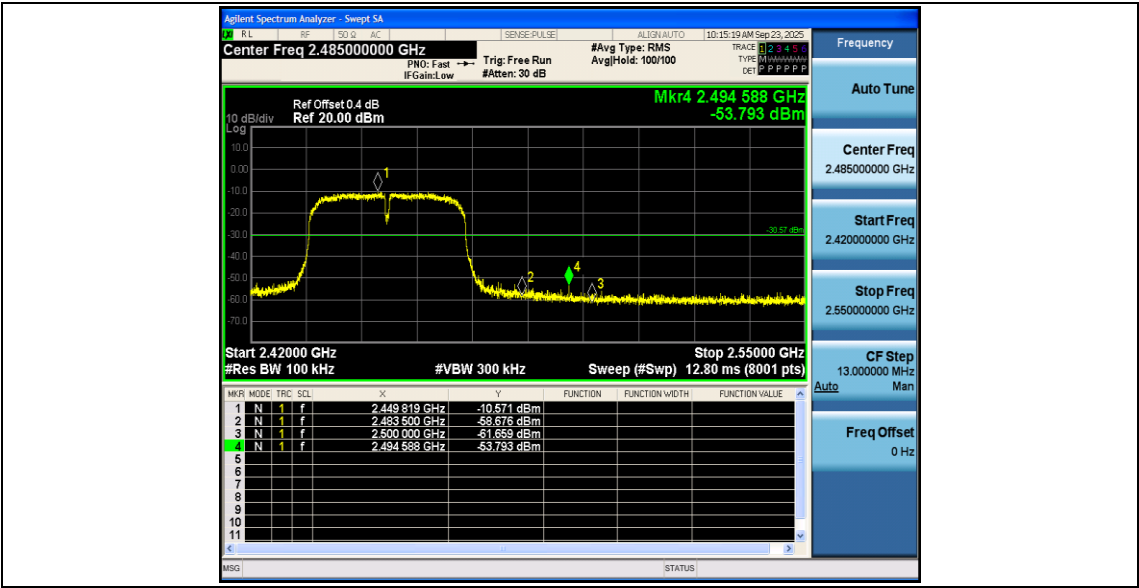
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

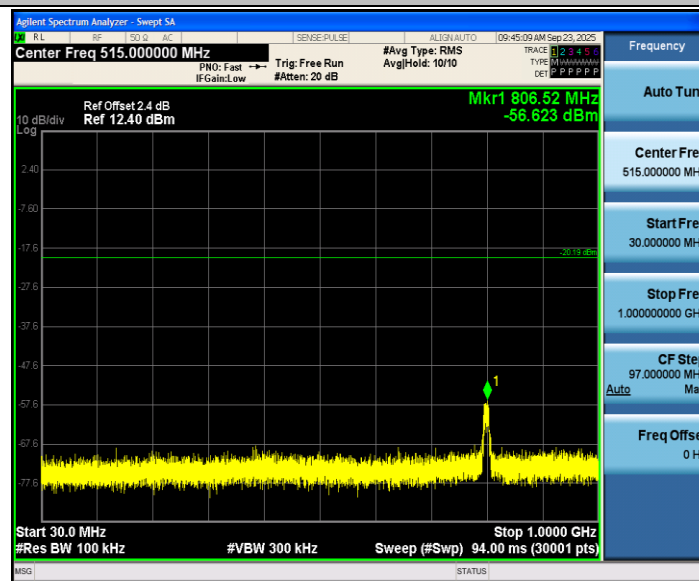
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-56.62	≤-20.19	PASS
			1000~26500	-0.19	-44.25	≤-20.19	PASS
		2437	Reference	0.76	0.76	---	PASS
			30~1000	0.76	-55.3	≤-19.24	PASS
			1000~26500	0.76	-44.74	≤-19.24	PASS
		2462	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-56.01	≤-21.05	PASS
			1000~26500	-1.05	-45.26	≤-21.05	PASS
11G	Ant1	2412	Reference	-8.03	-8.03	---	PASS
			30~1000	-8.03	-59.68	≤-28.03	PASS
			1000~26500	-8.03	-43.7	≤-28.03	PASS
		2437	Reference	-7.41	-7.41	---	PASS
			30~1000	-7.41	-59.04	≤-27.41	PASS
			1000~26500	-7.41	-44.21	≤-27.41	PASS
		2462	Reference	-7.26	-7.26	---	PASS
			30~1000	-7.26	-58.74	≤-27.26	PASS
			1000~26500	-7.26	-44.89	≤-27.26	PASS
11N20SISO	Ant1	2412	Reference	-8.12	-8.12	---	PASS
			30~1000	-8.12	-59.85	≤-28.12	PASS
			1000~26500	-8.12	-43.72	≤-28.12	PASS
		2437	Reference	-7.32	-7.32	---	PASS
			30~1000	-7.32	-60.26	≤-27.32	PASS
			1000~26500	-7.32	-44.34	≤-27.32	PASS
		2462	Reference	-6.25	-6.25	---	PASS
			30~1000	-6.25	-59.55	≤-26.25	PASS
			1000~26500	-6.25	-44.92	≤-26.25	PASS
11N40SISO	Ant1	2422	Reference	-11.23	-11.23	---	PASS
			30~1000	-11.23	-62.43	≤-31.23	PASS
			1000~26500	-11.23	-43.81	≤-31.23	PASS
		2437	Reference	-11.09	-11.09	---	PASS
			30~1000	-11.09	-55.6	≤-31.09	PASS
			1000~26500	-11.09	-44.22	≤-31.09	PASS
		2452	Reference	-10.67	-10.67	---	PASS
			30~1000	-10.67	-61.79	≤-30.67	PASS
			1000~26500	-10.67	-44.69	≤-30.67	PASS

Test Graphs

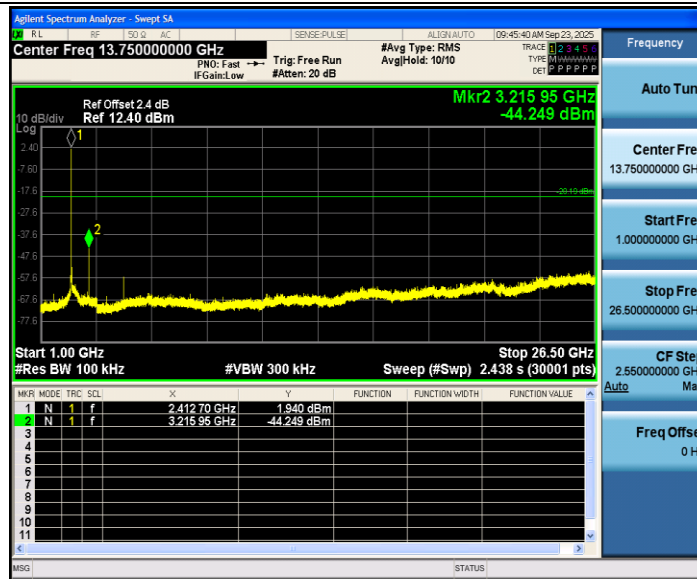
11B_Ant1_2412_0~Reference



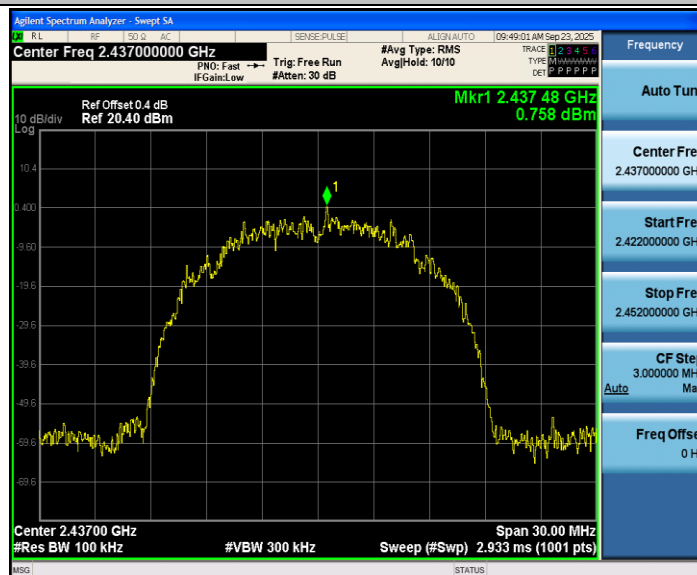
11B_Ant1_2412_30~1000



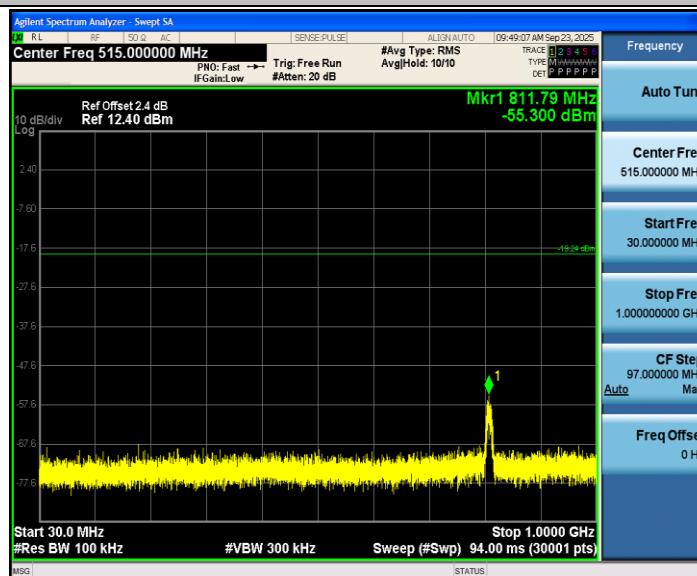
11B_Ant1_2412_1000~26500



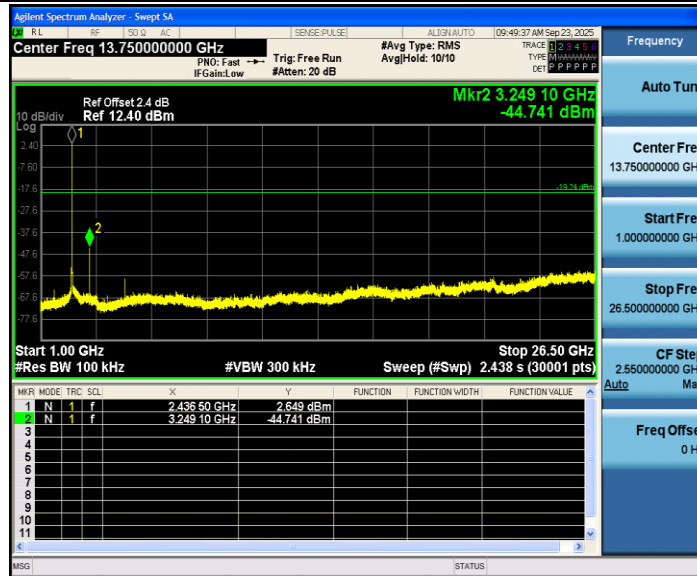
11B_Ant1_2437_0~Reference



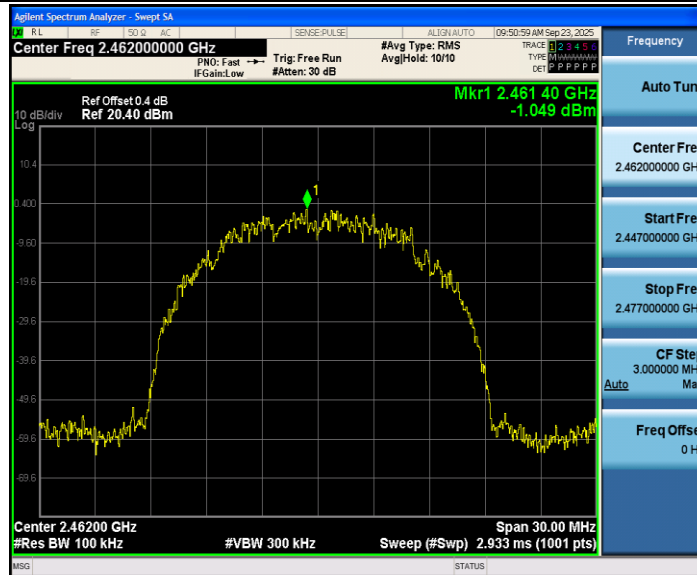
11B_Ant1_2437_30~1000



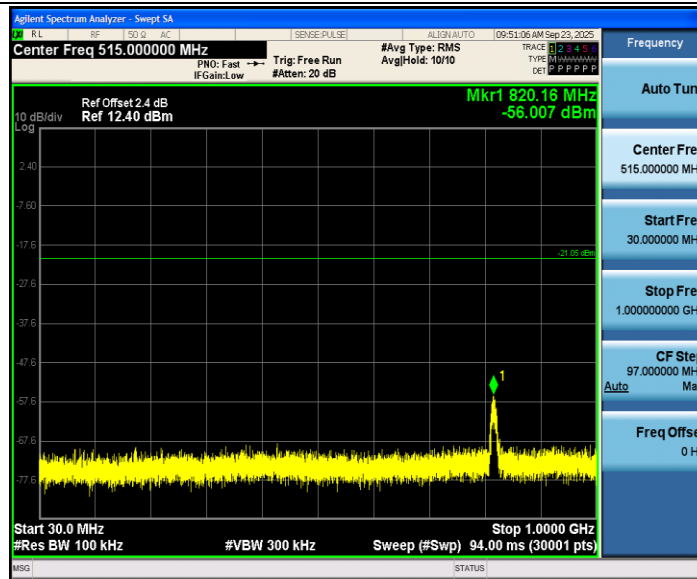
11B_Ant1_2437_1000~26500



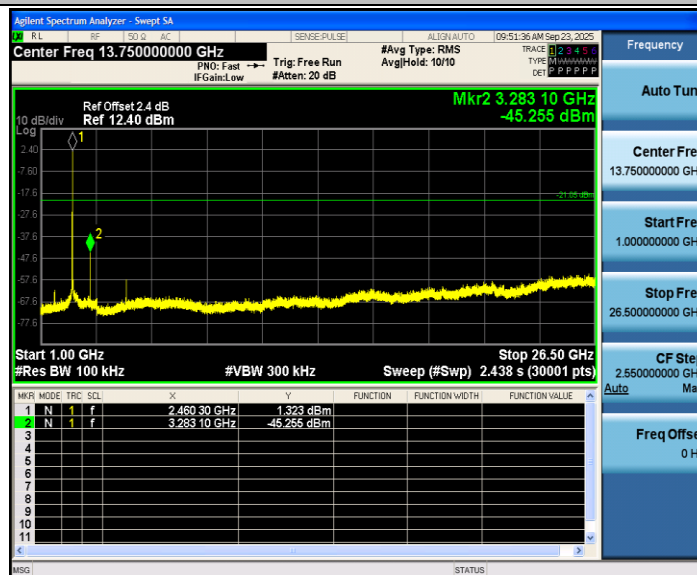
11B_Ant1_2462_0~Reference



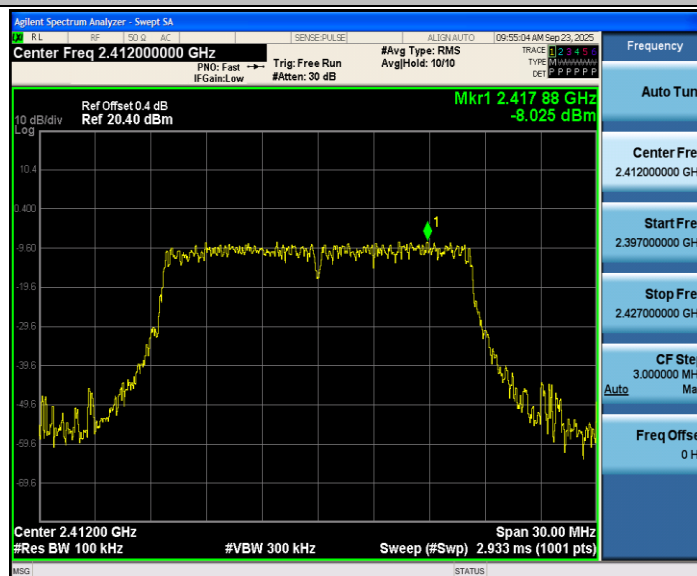
11B_Ant1_2462_30~1000



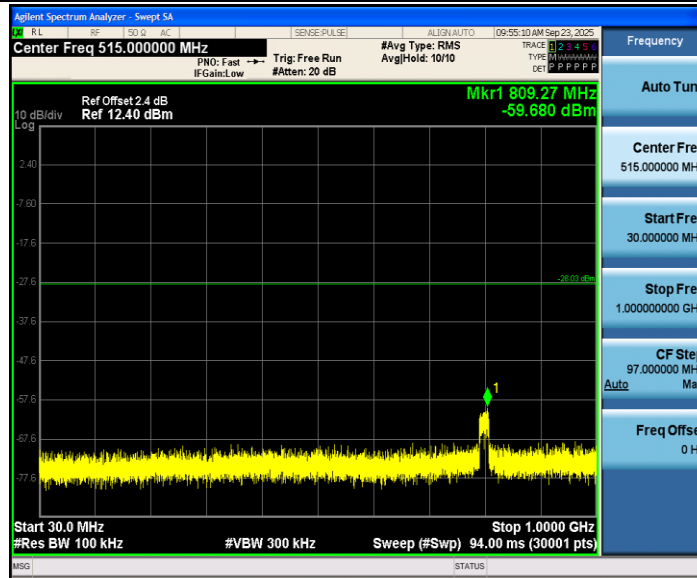
11B_Ant1_2462_1000~26500



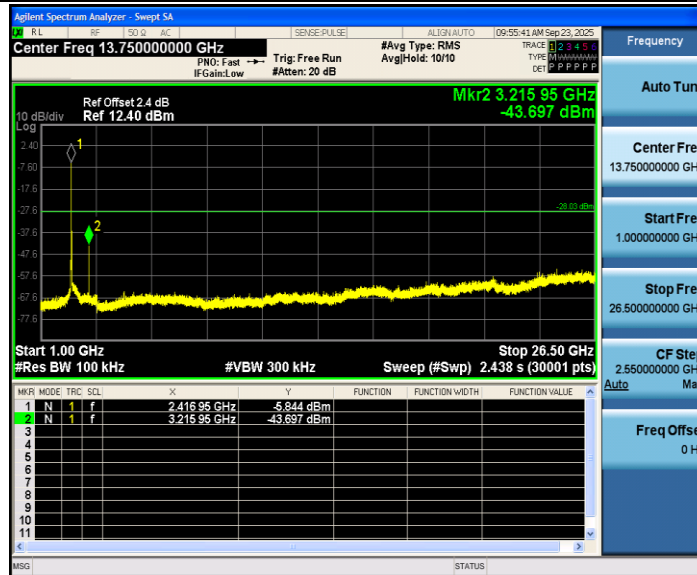
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



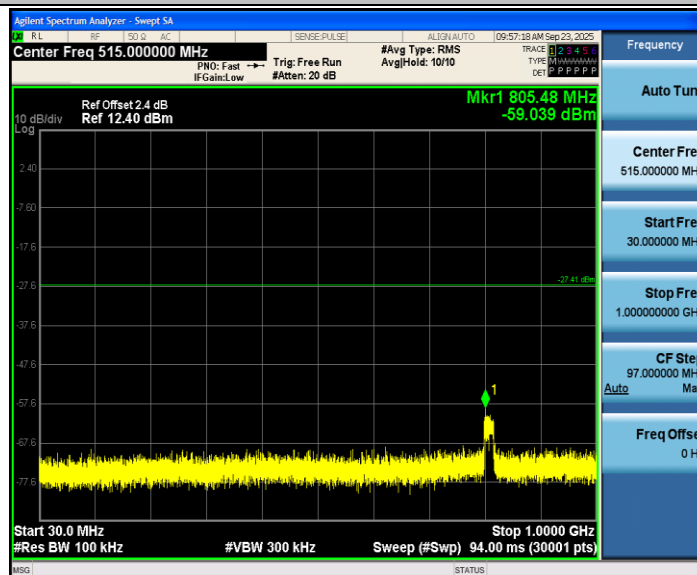
11G_Ant1_2412_1000~26500



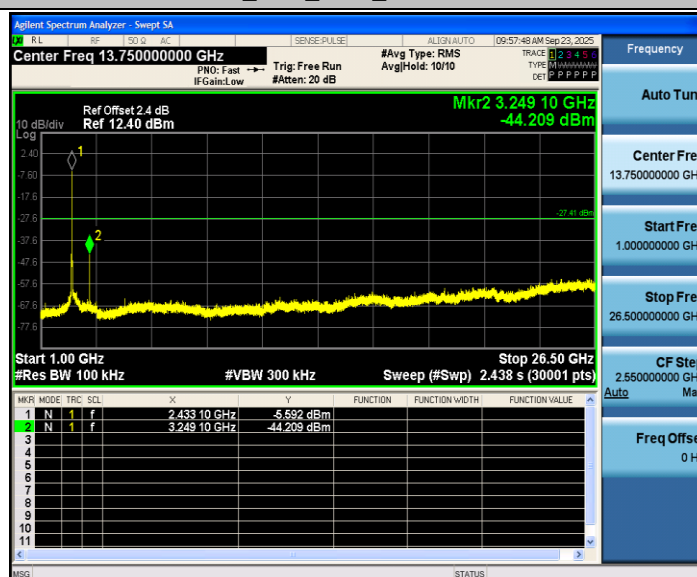
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



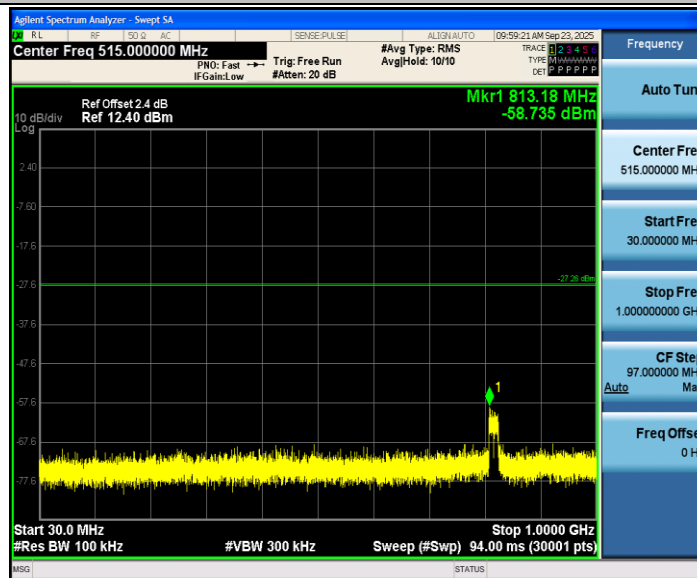
11G_Ant1_2437_1000~26500



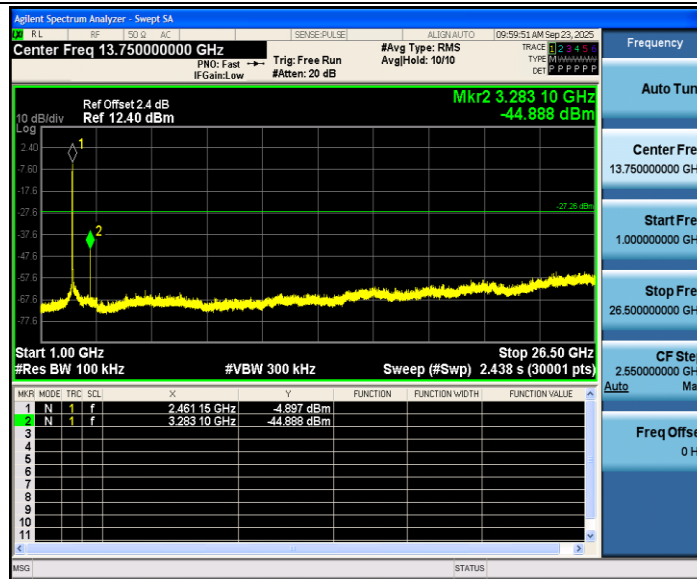
11G_Ant1_2462_0~Reference



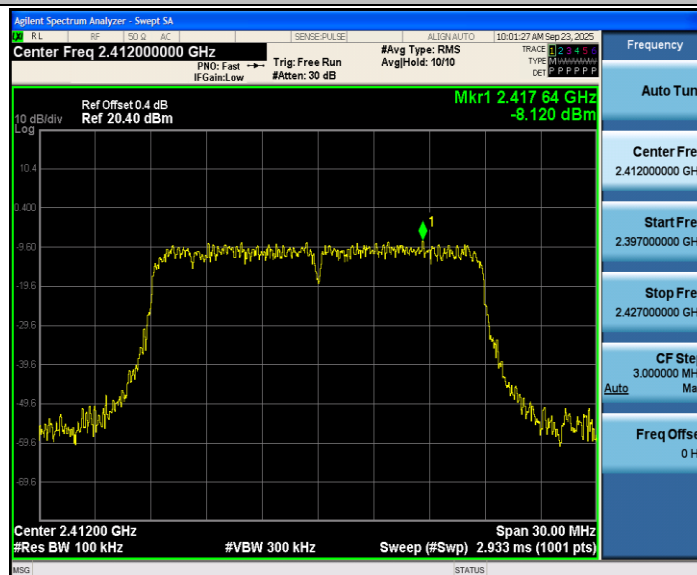
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

