

FCC Appendix RF Test Data for 2.4GWIFI

Company: : PRETTL Automotive Components(Wuhu)Co.,Ltd

EUT : eddi nightlight

Model Number : L0001

FCC ID : 2BSXB-L0001

Report No. : CTA25111201402

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

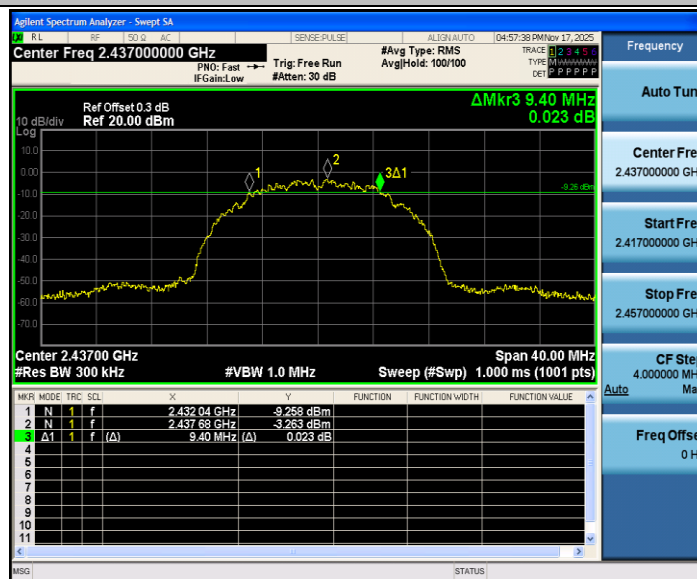
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.480	2407.920	2416.400	0.5	PASS
		2437	9.400	2432.040	2441.440	0.5	PASS
		2462	8.200	2458.040	2466.240	0.5	PASS
11G	Ant1	2412	16.280	2403.920	2420.200	0.5	PASS
		2437	16.280	2428.920	2445.200	0.5	PASS
		2462	16.400	2453.840	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.400	2420.720	0.5	PASS
		2437	17.320	2428.400	2445.720	0.5	PASS
		2462	17.160	2453.560	2470.720	0.5	PASS
11N40SISO	Ant1	2422	33.920	2405.360	2439.280	0.5	PASS
		2437	33.760	2420.360	2454.120	0.5	PASS
		2452	34.000	2435.120	2469.120	0.5	PASS

Test Graphs

11B_Ant1_2412



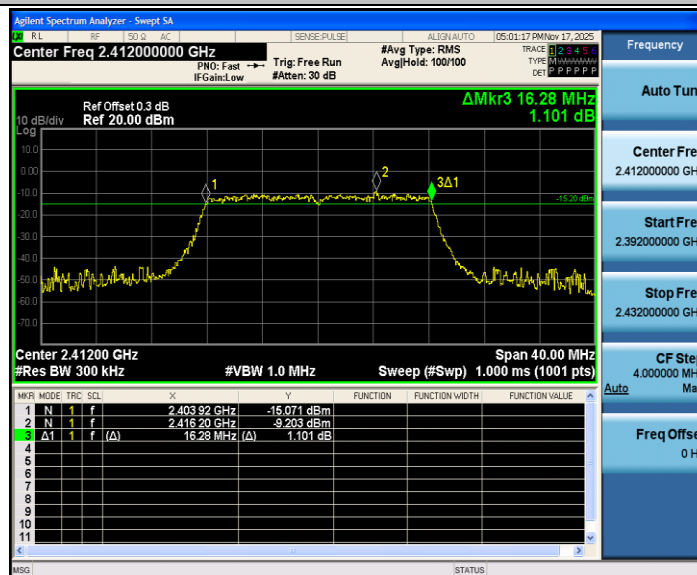
11B_Ant1_2437



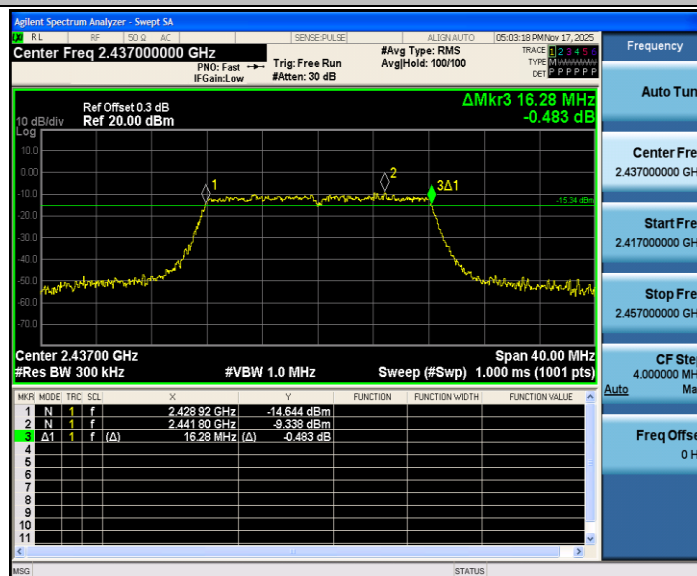
11B_Ant1_2462



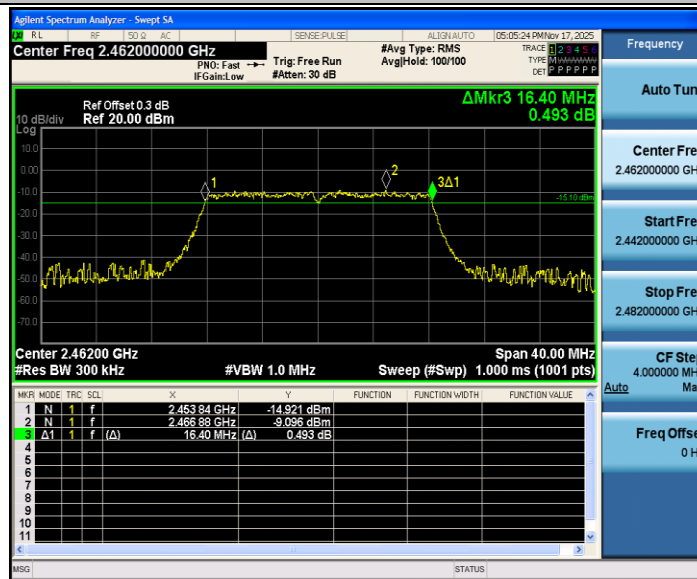
11G_Ant1_2412



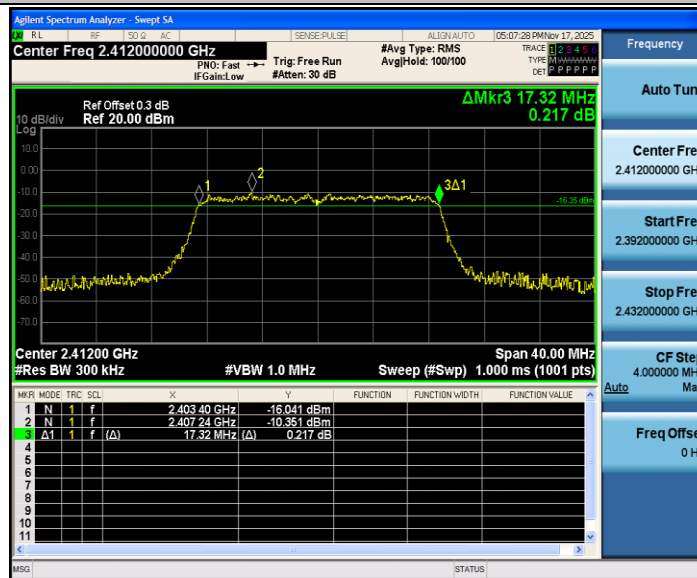
11G_Ant1_2437



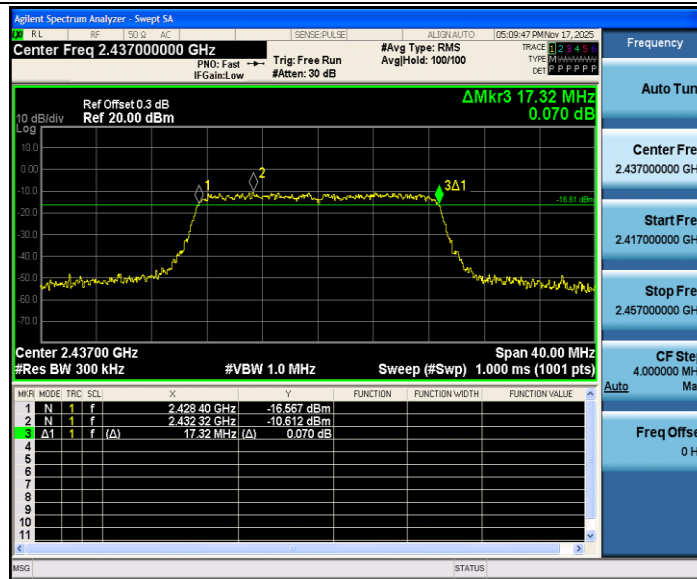
11G_Ant1_2462



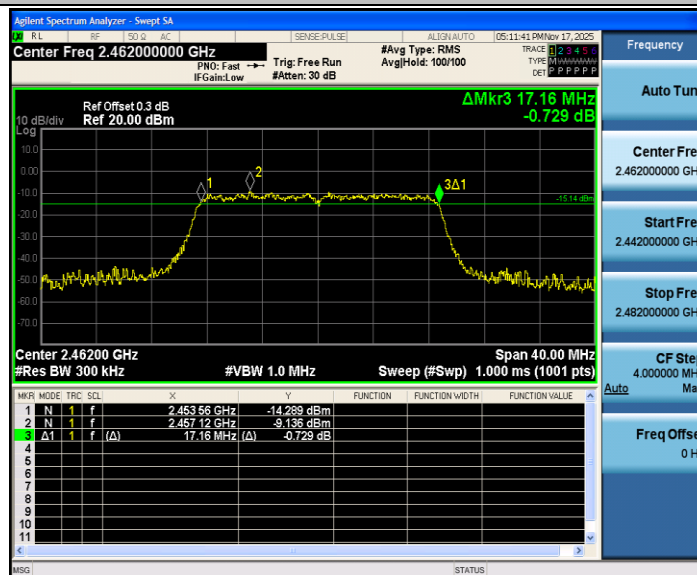
11N20SISO_Ant1_2412



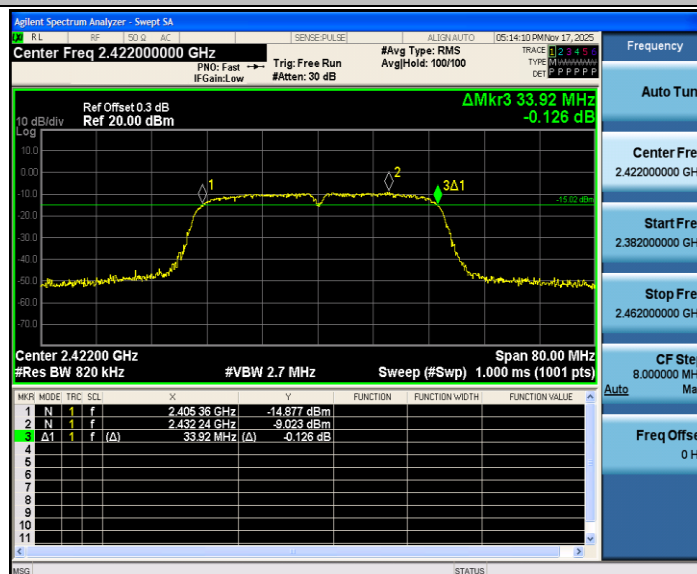
11N20SISO_Ant1_2437



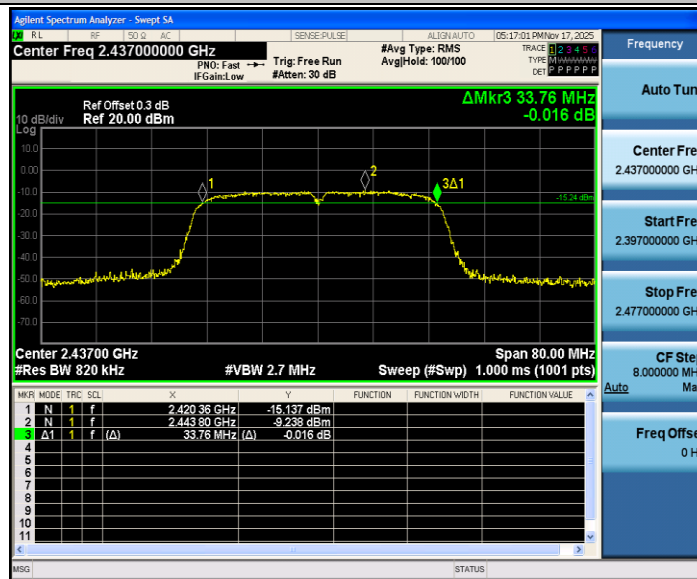
11N20SISO_Ant1_2462



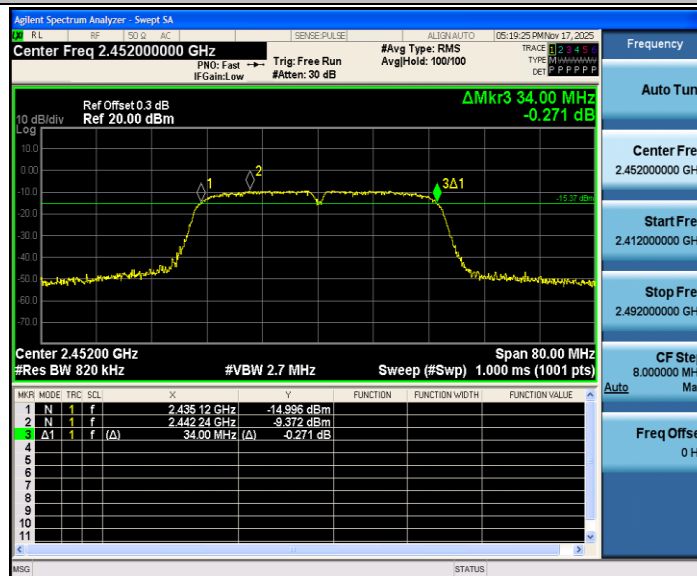
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



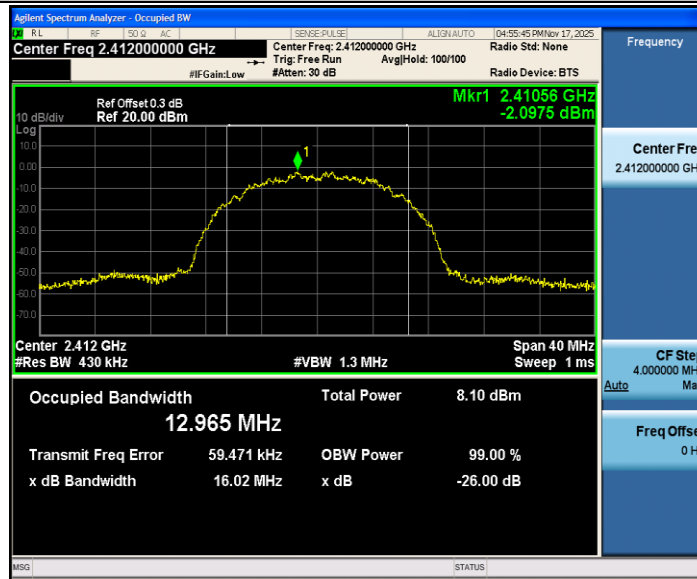
Appendix B: Occupied Channel Bandwidth

Test Result

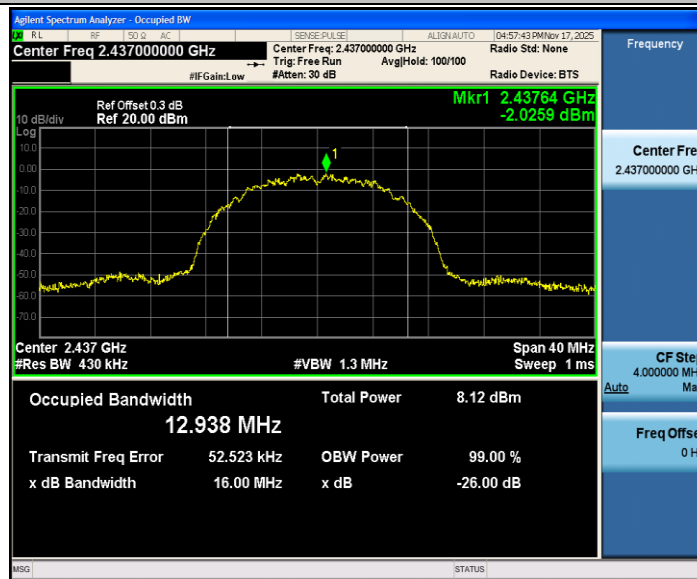
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.965	2405.5770	2418.5420	---	---
		2437	12.938	2430.5835	2443.5215	---	---
		2462	12.951	2455.5266	2468.4776	---	---
11G	Ant1	2412	16.592	2403.7617	2420.3537	---	---
		2437	16.594	2428.7412	2445.3352	---	---
		2462	16.641	2453.7110	2470.3520	---	---
11N20SISO	Ant1	2412	17.460	2403.3219	2420.7819	---	---
		2437	17.461	2428.3146	2445.7756	---	---
		2462	17.448	2453.3157	2470.7637	---	---
11N40SISO	Ant1	2422	34.866	2404.7386	2439.6046	---	---
		2437	34.795	2419.7437	2454.5387	---	---
		2452	34.721	2434.7797	2469.5007	---	---

Test Graphs

11B_Ant1_2412



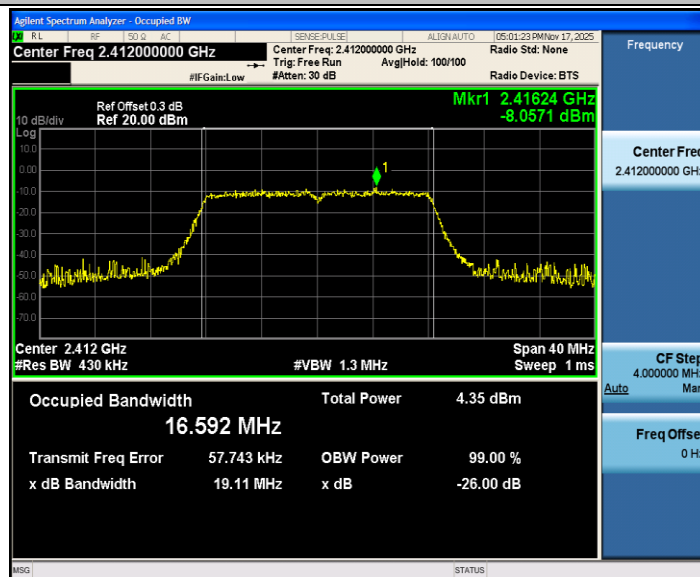
11B_Ant1_2437



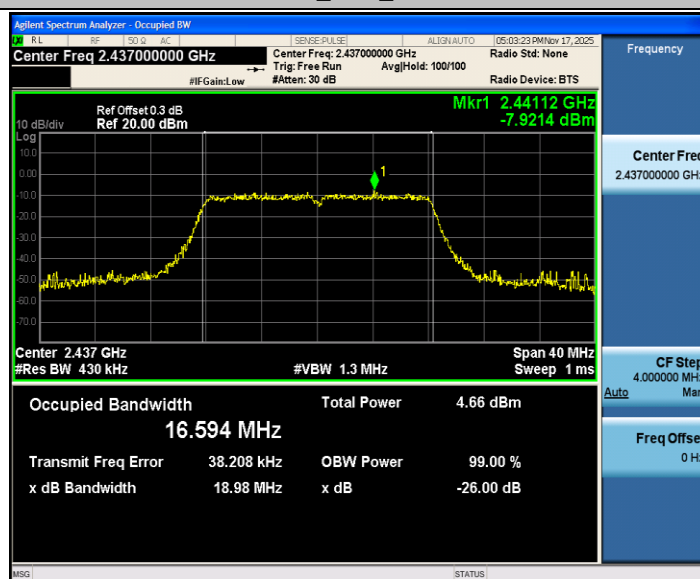
11B_Ant1_2462



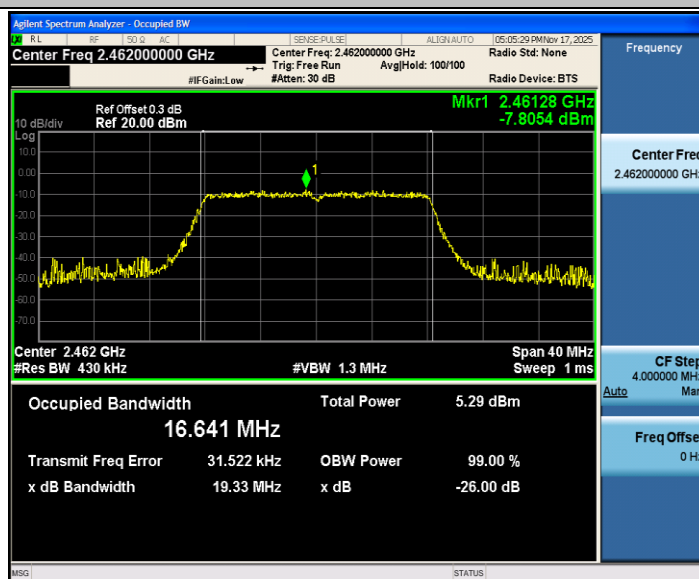
11G_Ant1_2412



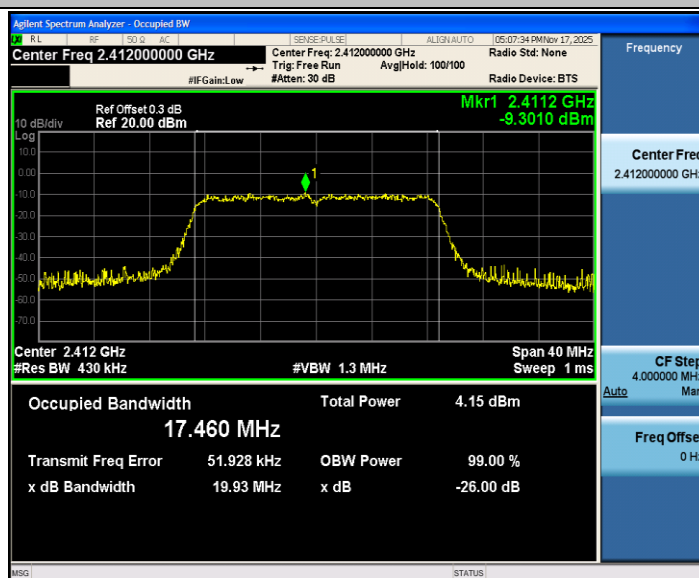
11G_Ant1_2437



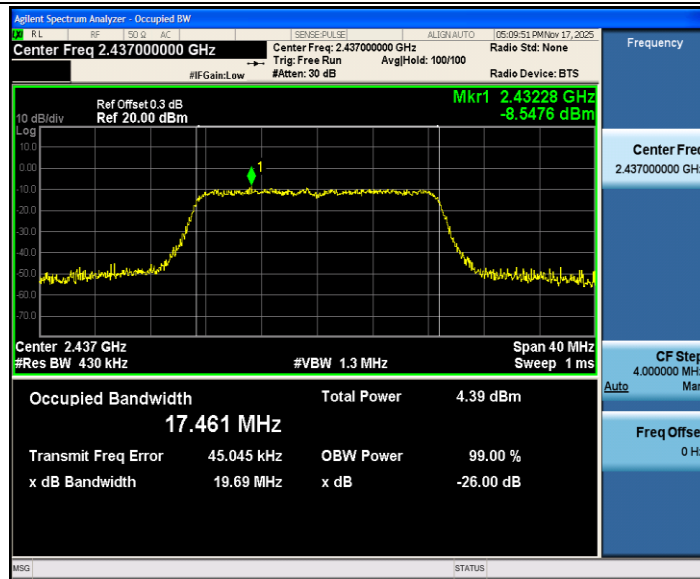
11G_Ant1_2462



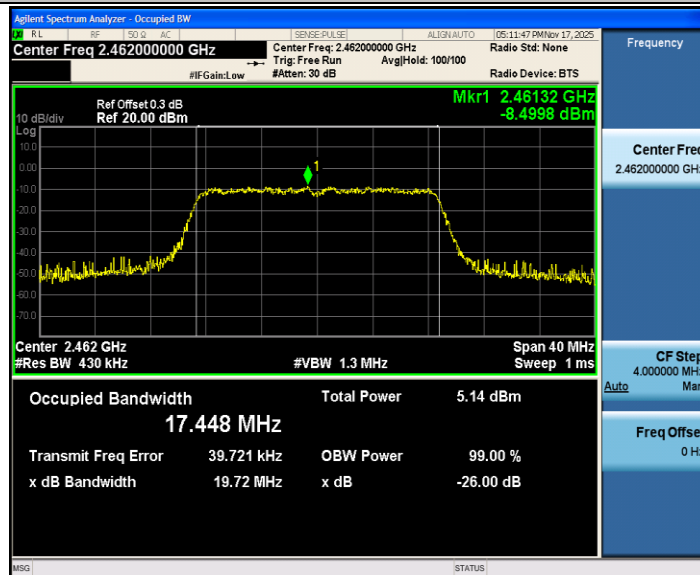
11N20SISO_Ant1_2412



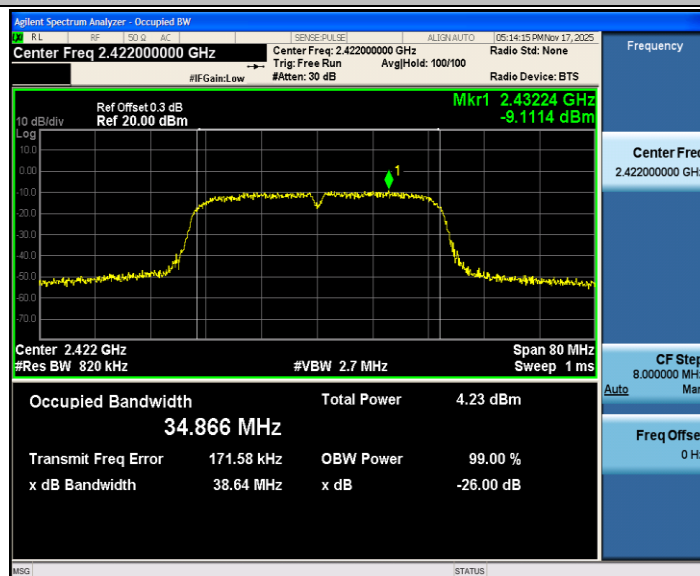
11N20SISO_Ant1_2437



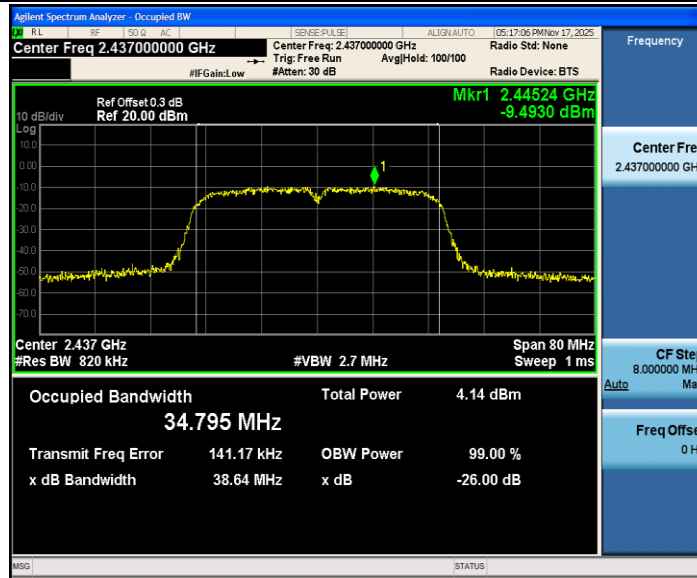
11N20SISO_Ant1_2462



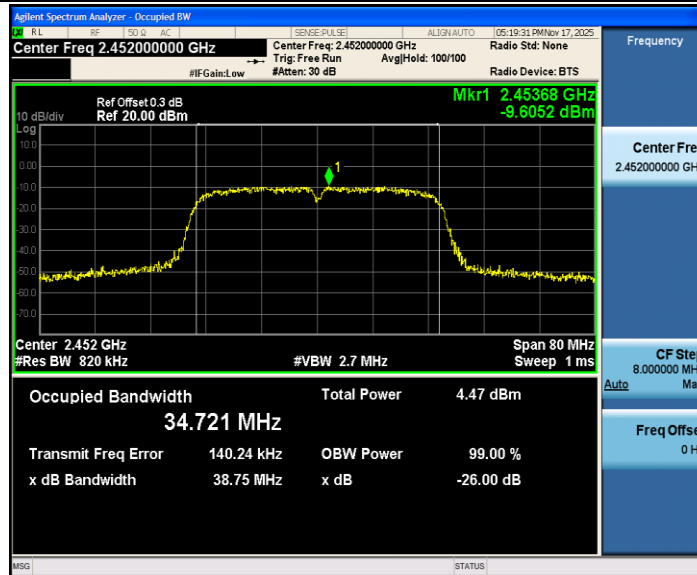
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	9.42	≤30.00	PASS
		2437	9.75	≤30.00	PASS
		2462	9.41	≤30.00	PASS
11G	Ant1	2412	7.28	≤30.00	PASS
		2437	7.56	≤30.00	PASS
		2462	7.31	≤30.00	PASS
11N20SISO	Ant1	2412	7.36	≤30.00	PASS
		2437	7.64	≤30.00	PASS
		2462	7.34	≤30.00	PASS
11N40SISO	Ant1	2422	6.54	≤30.00	PASS
		2437	6.38	≤30.00	PASS
		2452	6.68	≤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	-21.33	≤8.00	PASS
		2437	-21.36	≤8.00	PASS
		2462	-21.54	≤8.00	PASS
11G	Ant1	2412	-29.16	≤8.00	PASS
		2437	-28.91	≤8.00	PASS
		2462	-28.38	≤8.00	PASS
11N20SISO	Ant1	2412	-28.75	≤8.00	PASS
		2437	-28.76	≤8.00	PASS
		2462	-28.02	≤8.00	PASS
11N40SISO	Ant1	2422	-30.12	≤8.00	PASS
		2437	-30.67	≤8.00	PASS
		2452	-30.41	≤8.00	PASS

Test Graphs

11B_Ant1_2412



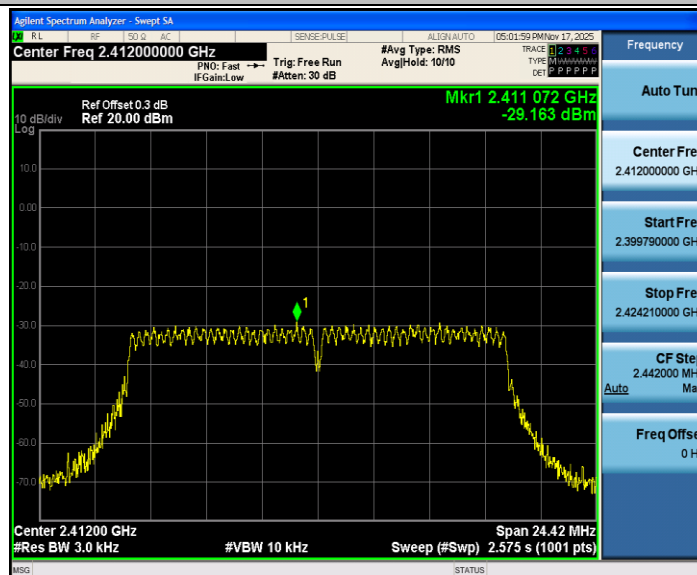
11B_Ant1_2437



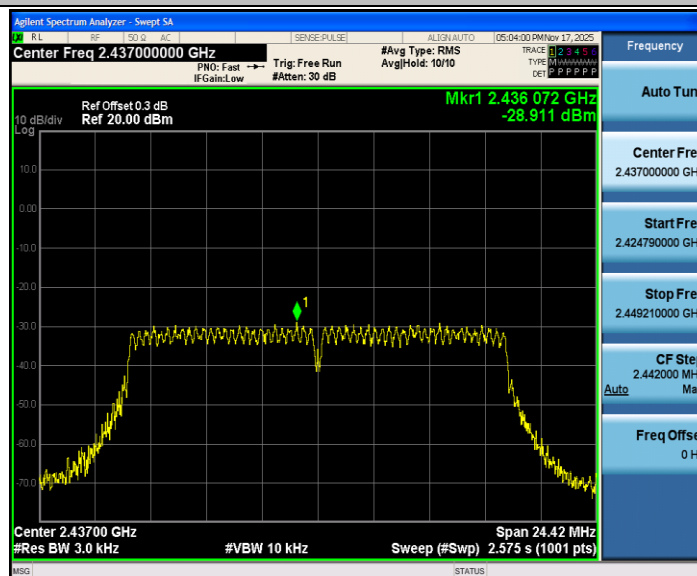
11B_Ant1_2462



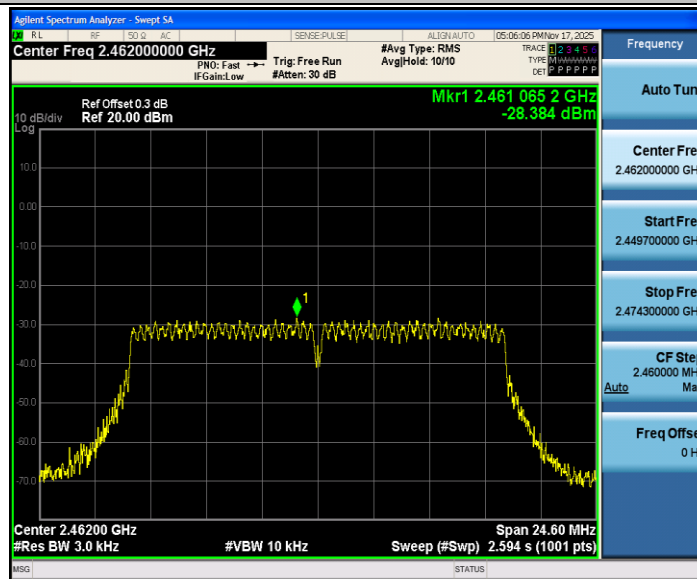
11G_Ant1_2412



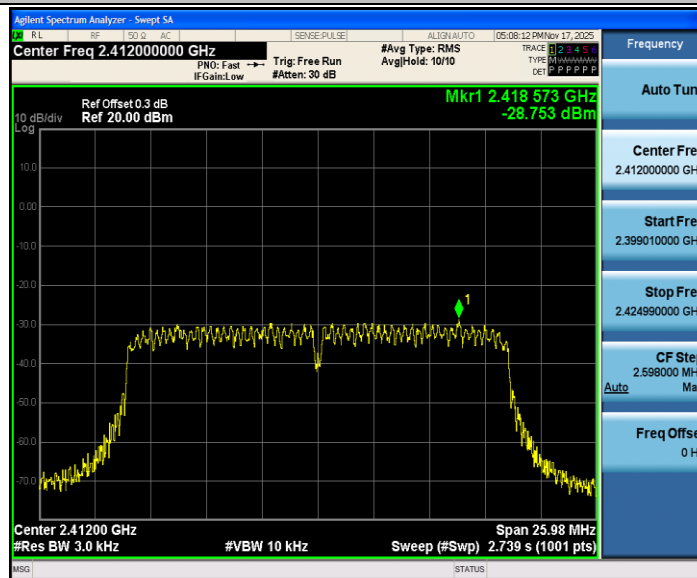
11G_Ant1_2437



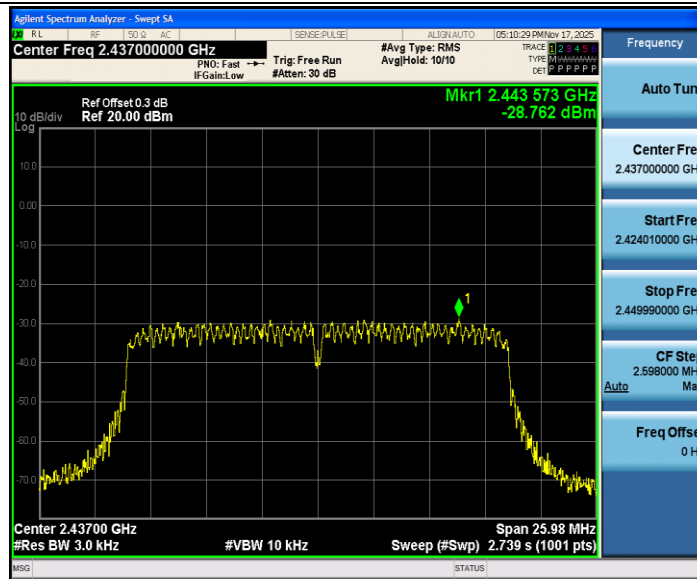
11G_Ant1_2462



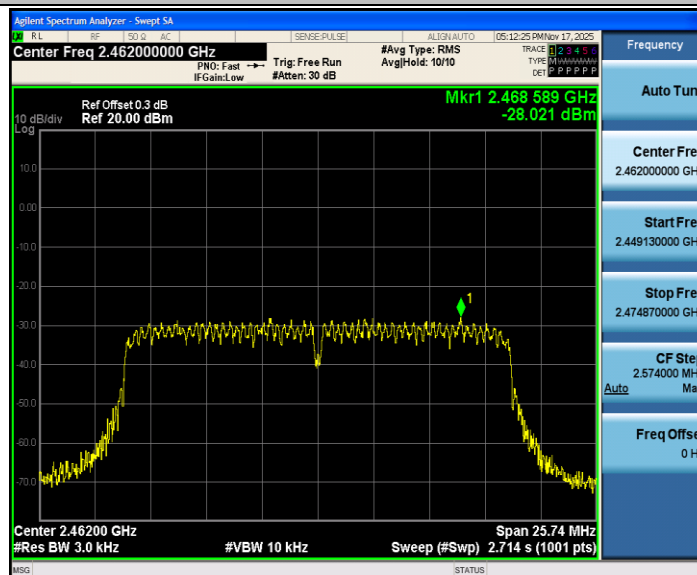
11N20SISO_Ant1_2412



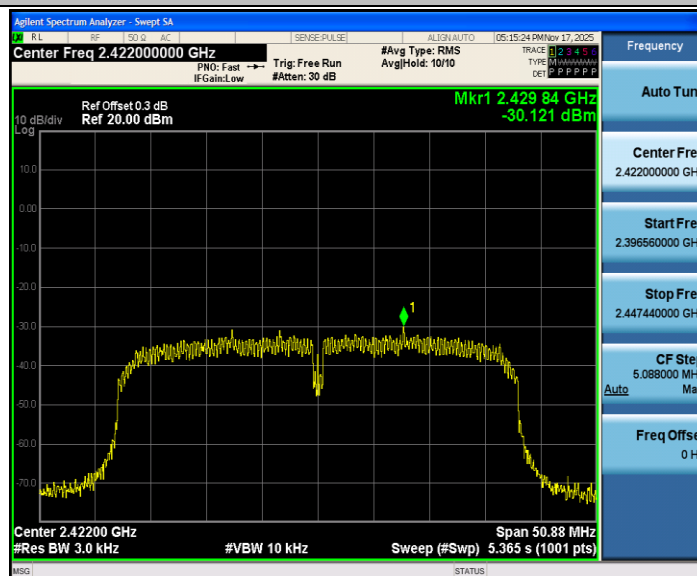
11N20SISO_Ant1_2437



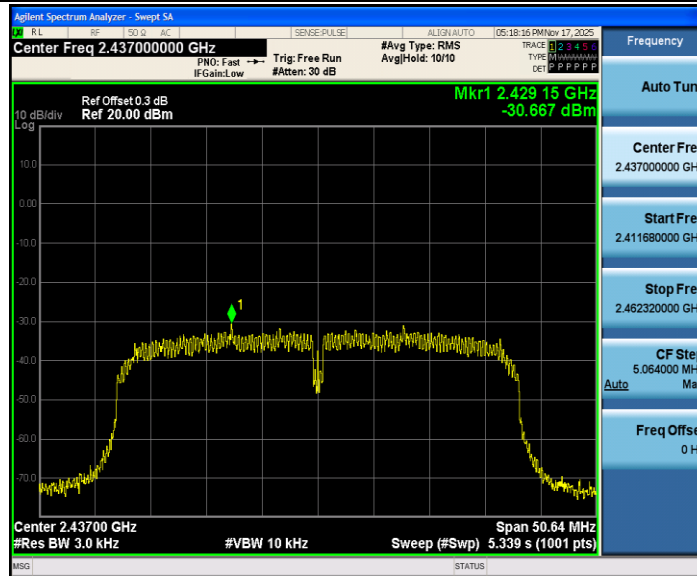
11N20SISO_Ant1_2462



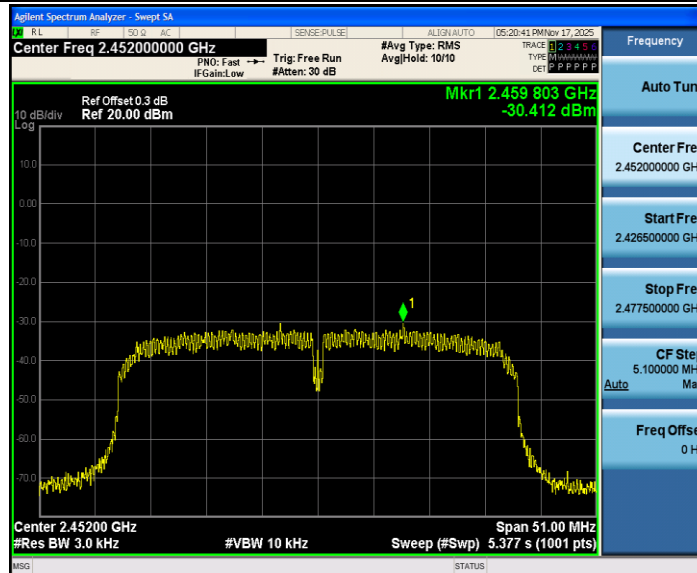
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



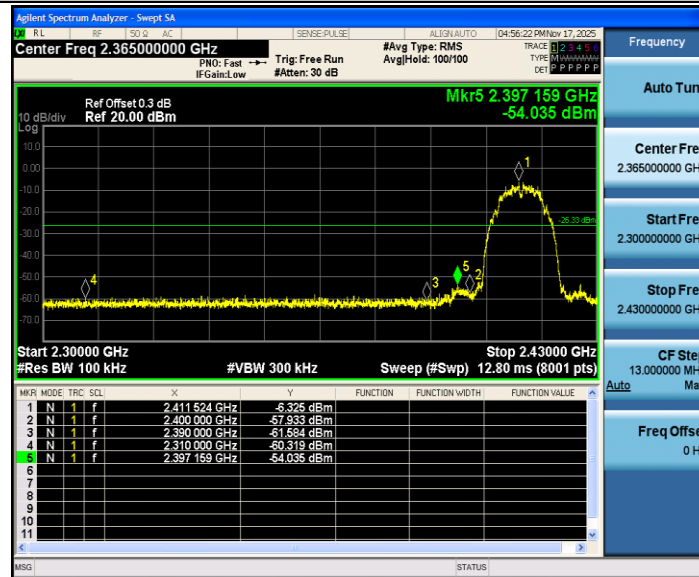
Appendix E: Band edge measurements

Test Result

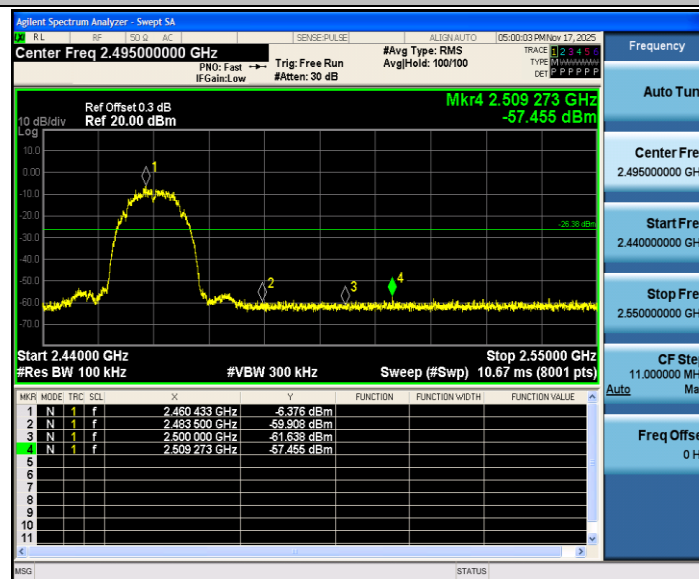
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.33	-54.04	≤-26.33	PASS
		High	2462	-6.38	-57.46	≤-26.38	PASS
11G	Ant1	Low	2412	-15.05	-51.46	≤-35.05	PASS
		High	2462	-14.59	-53.78	≤-34.59	PASS
11N20SISO	Ant1	Low	2412	-15.81	-52.46	≤-35.81	PASS
		High	2462	-14.09	-56.63	≤-34.09	PASS
11N40SISO	Ant1	Low	2422	-18.16	-53.85	≤-38.16	PASS
		High	2452	-18.69	-57.64	≤-38.69	PASS

Test Graphs

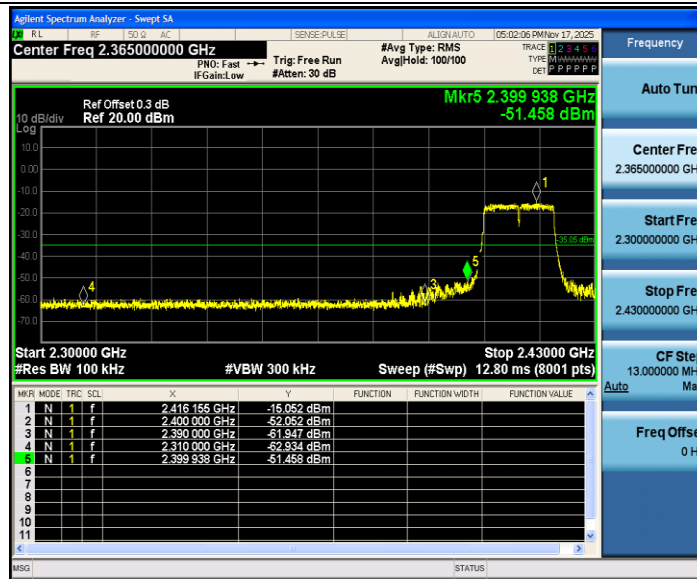
11B_Ant1_Low_2412



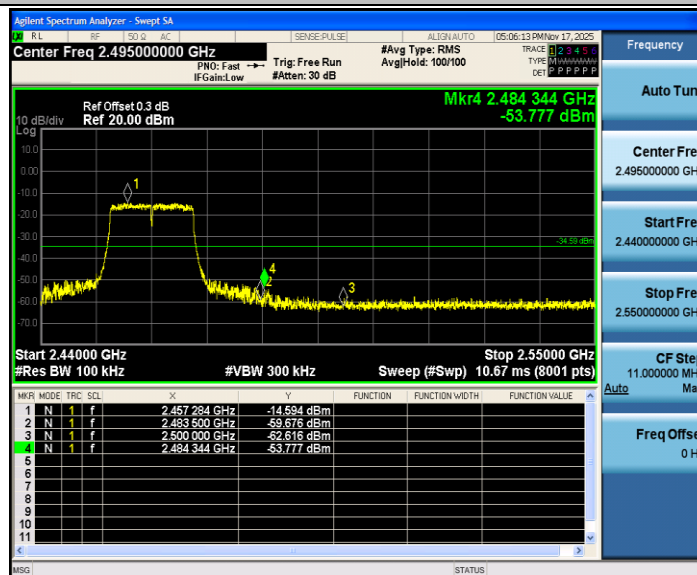
11B_Ant1_High_2462



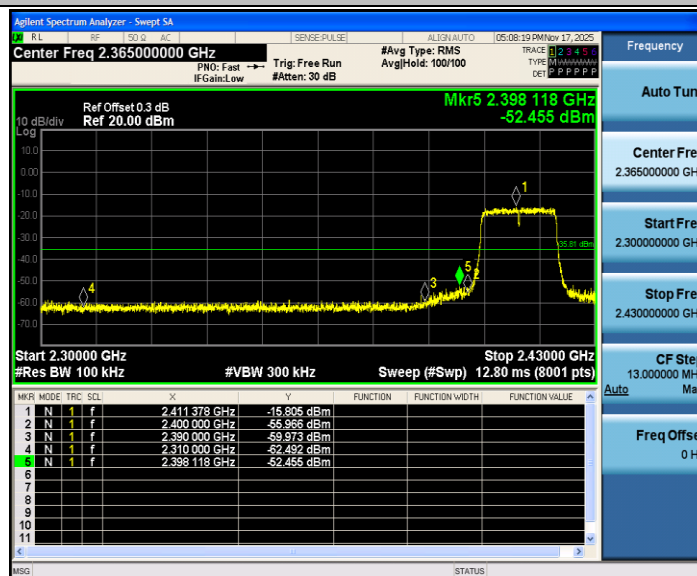
11G_Ant1_Low_2412



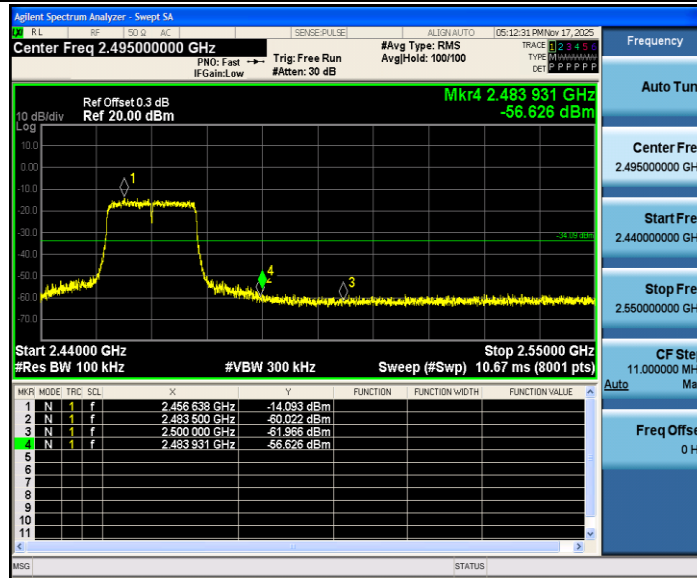
11G_Ant1_High_2462



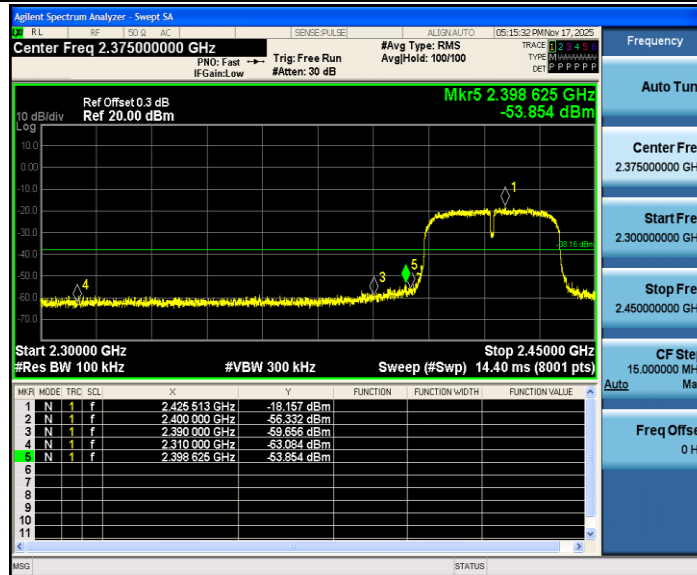
11N20SISO_Ant1_Low_2412



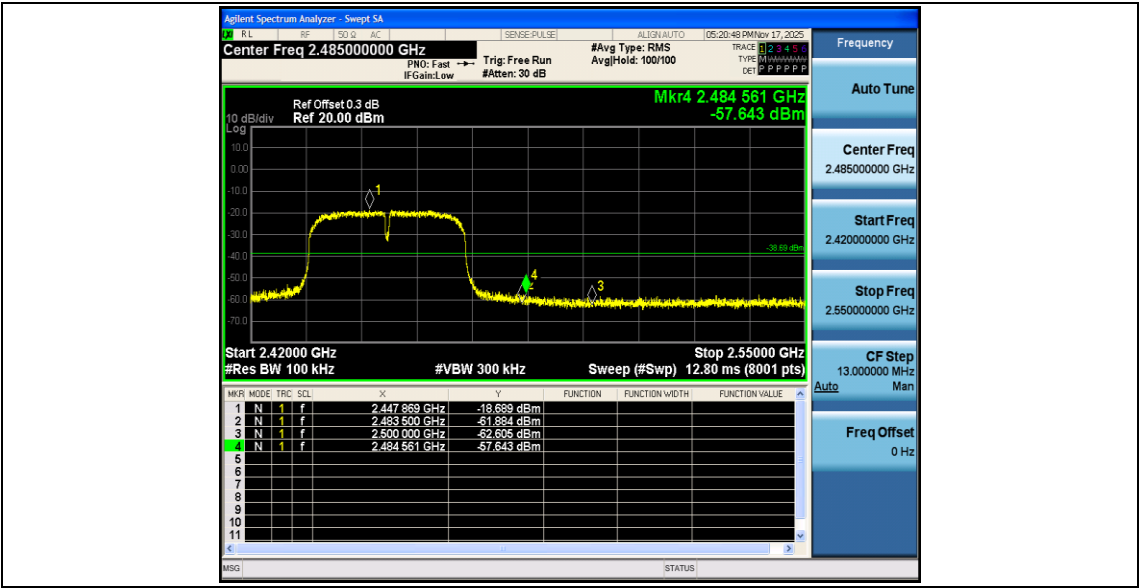
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



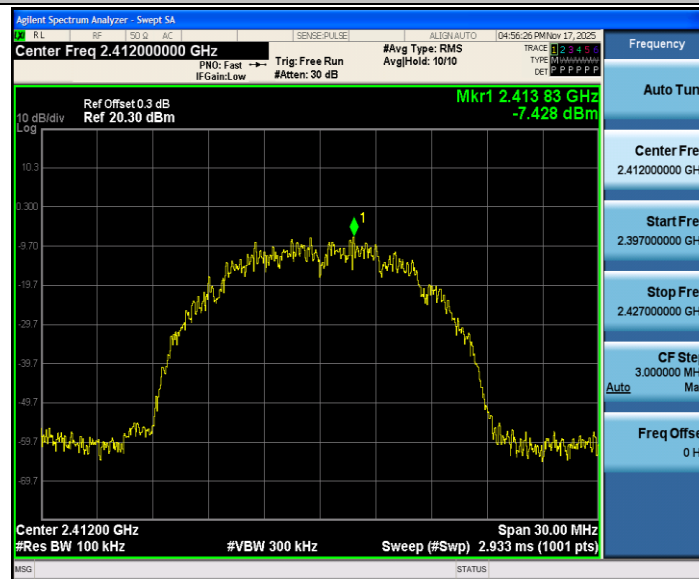
Appendix F: Conducted Spurious Emission

Test Result

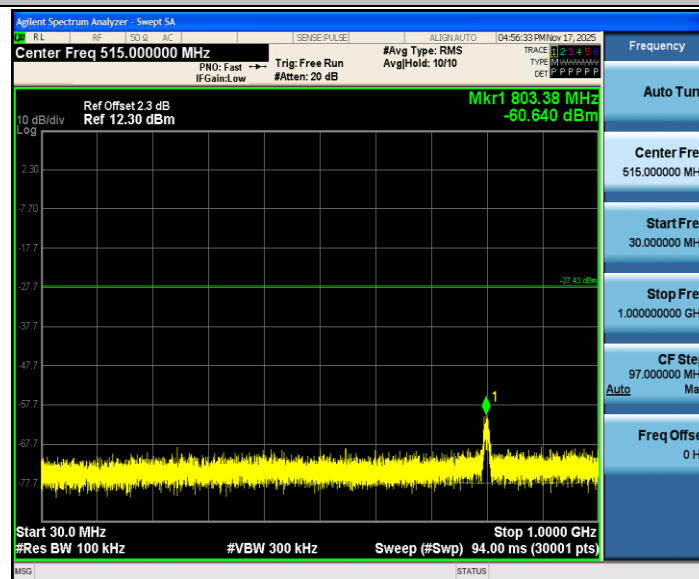
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-7.43	-7.43	---	PASS
			30~1000	-7.43	-60.64	≤-27.43	PASS
			1000~26500	-7.43	-44.14	≤-27.43	PASS
		2437	Reference	-7.06	-7.06	---	PASS
			30~1000	-7.06	-60.87	≤-27.06	PASS
			1000~26500	-7.06	-44.8	≤-27.06	PASS
		2462	Reference	-7.82	-7.82	---	PASS
			30~1000	-7.82	-60.77	≤-27.82	PASS
			1000~26500	-7.82	-45.39	≤-27.82	PASS
11G	Ant1	2412	Reference	-15.57	-15.57	---	PASS
			30~1000	-15.57	-65.1	≤-35.57	PASS
			1000~26500	-15.57	-43.95	≤-35.57	PASS
		2437	Reference	-15.56	-15.56	---	PASS
			30~1000	-15.56	-65.04	≤-35.56	PASS
			1000~26500	-15.56	-44.68	≤-35.56	PASS
		2462	Reference	-14.63	-14.63	---	PASS
			30~1000	-14.63	-64.39	≤-34.63	PASS
			1000~26500	-14.63	-45.47	≤-34.63	PASS
11N20SISO	Ant1	2412	Reference	-16.80	-16.80	---	PASS
			30~1000	-16.80	-64.64	≤-36.8	PASS
			1000~26500	-16.80	-44.35	≤-36.8	PASS
		2437	Reference	-15.77	-15.77	---	PASS
			30~1000	-15.77	-64.78	≤-35.77	PASS
			1000~26500	-15.77	-44.93	≤-35.77	PASS
		2462	Reference	-14.89	-14.89	---	PASS
			30~1000	-14.89	-64.62	≤-34.89	PASS
			1000~26500	-14.89	-45.33	≤-34.89	PASS
11N40SISO	Ant1	2422	Reference	-18.93	-18.93	---	PASS
			30~1000	-18.93	-65.44	≤-38.93	PASS
			1000~26500	-18.93	-44.68	≤-38.93	PASS
		2437	Reference	-19.48	-19.48	---	PASS
			30~1000	-19.48	-65.92	≤-39.48	PASS
			1000~26500	-19.48	-45.17	≤-39.48	PASS
		2452	Reference	-18.72	-18.72	---	PASS
			30~1000	-18.72	-65.34	≤-38.72	PASS
			1000~26500	-18.72	-45.39	≤-38.72	PASS

Test Graphs

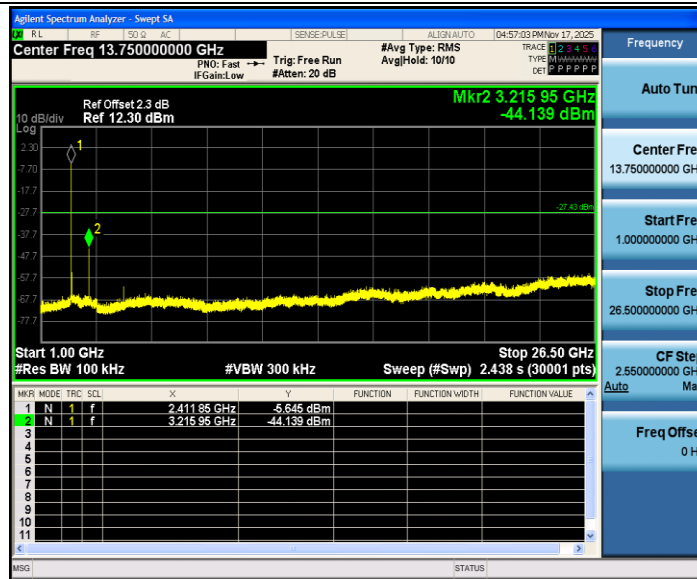
11B_Ant1_2412_0~Reference



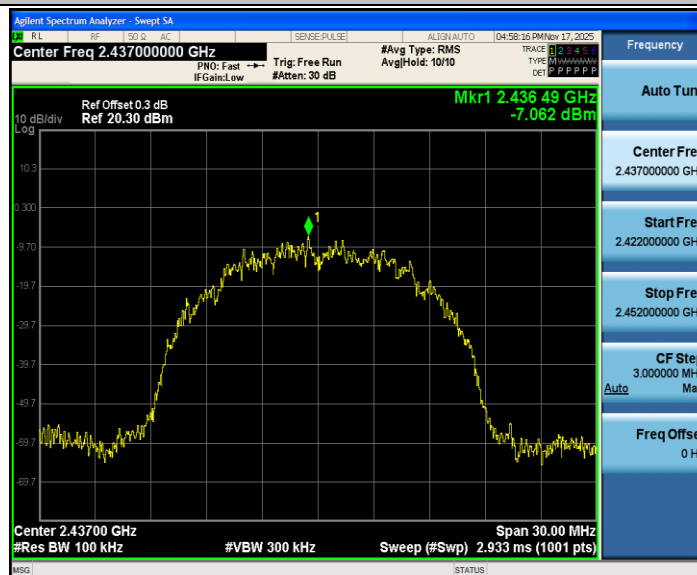
11B_Ant1_2412_30~1000



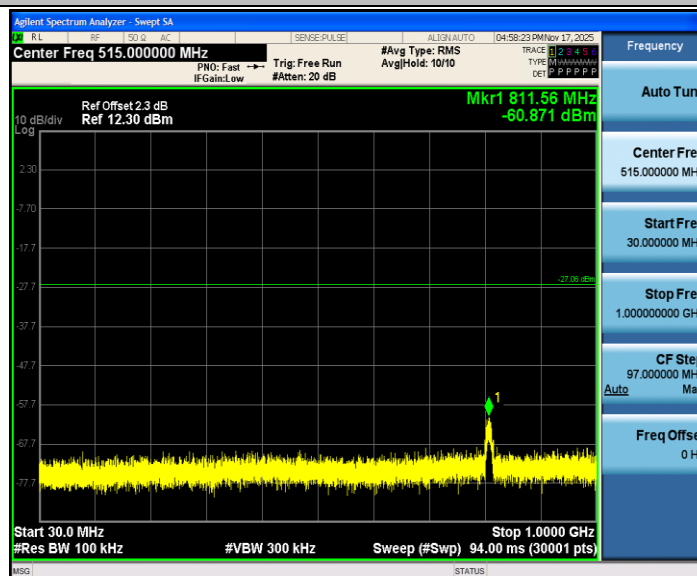
11B_Ant1_2412_1000~26500



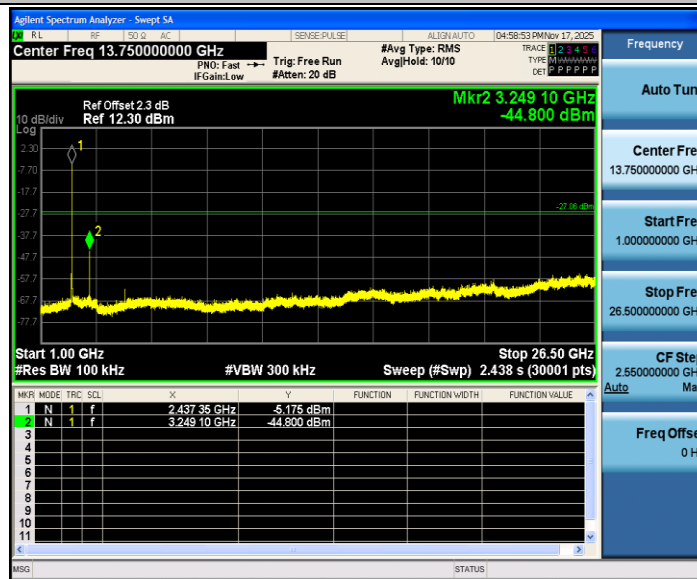
11B_Ant1_2437_0~Reference



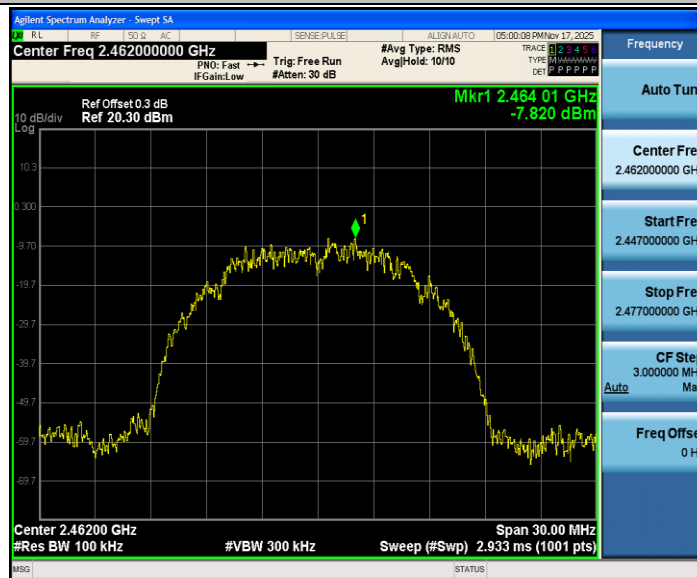
11B_Ant1_2437_30~1000



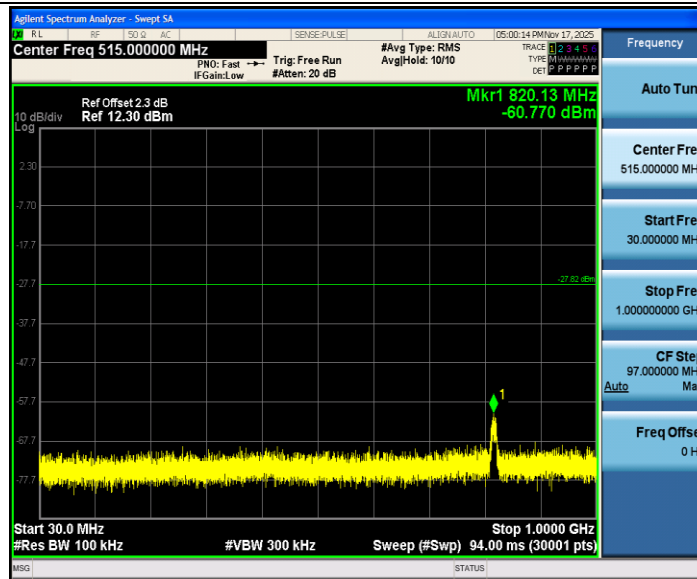
11B_Ant1_2437_1000~26500



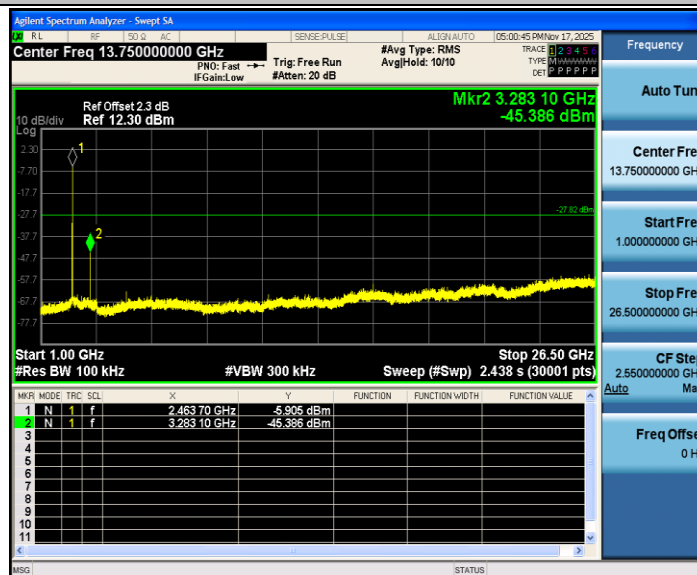
11B_Ant1_2462_0~Reference



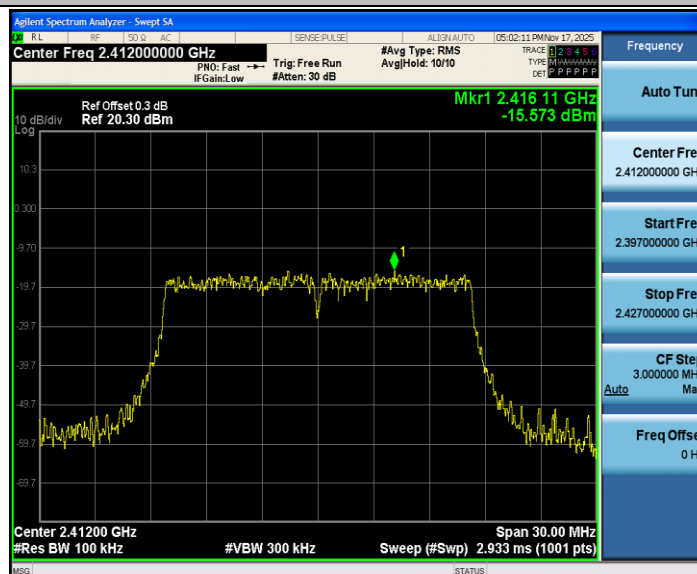
11B_Ant1_2462_30~1000



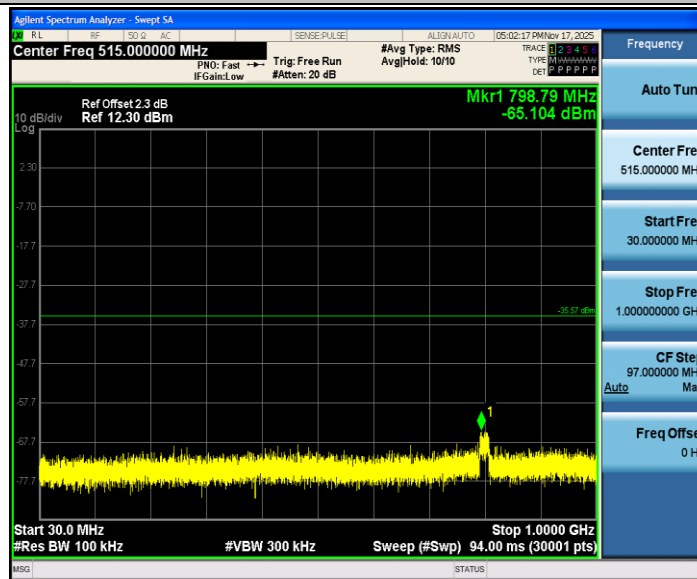
11B_Ant1_2462_1000~26500



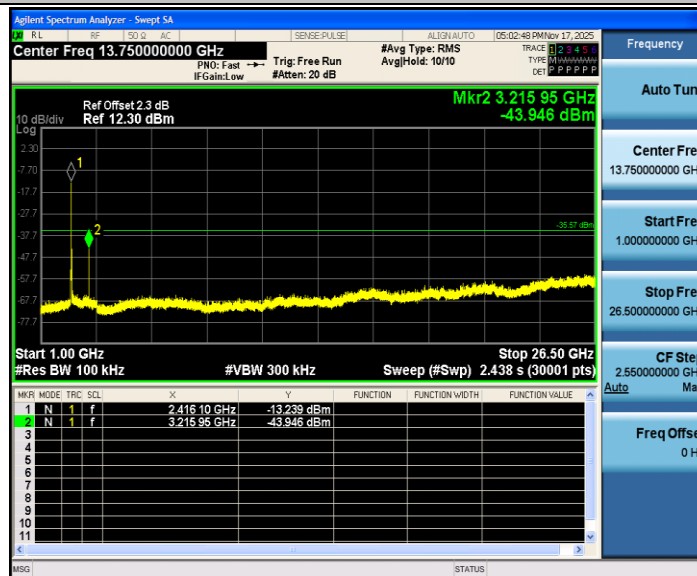
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



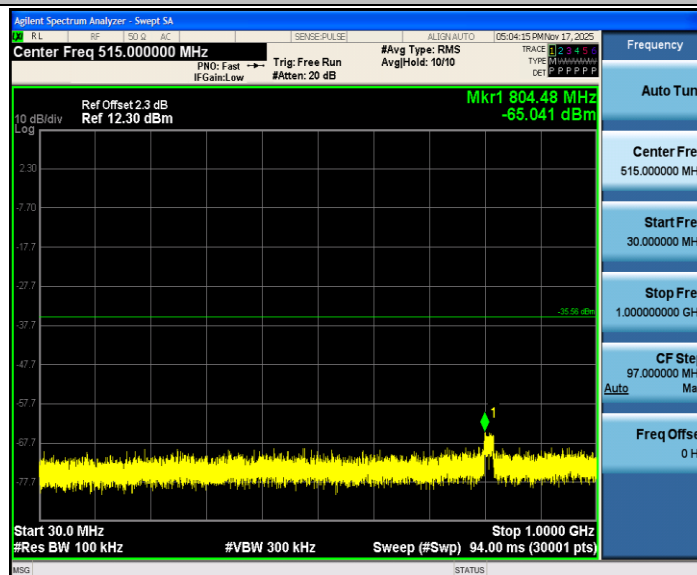
11G_Ant1_2412_1000~26500



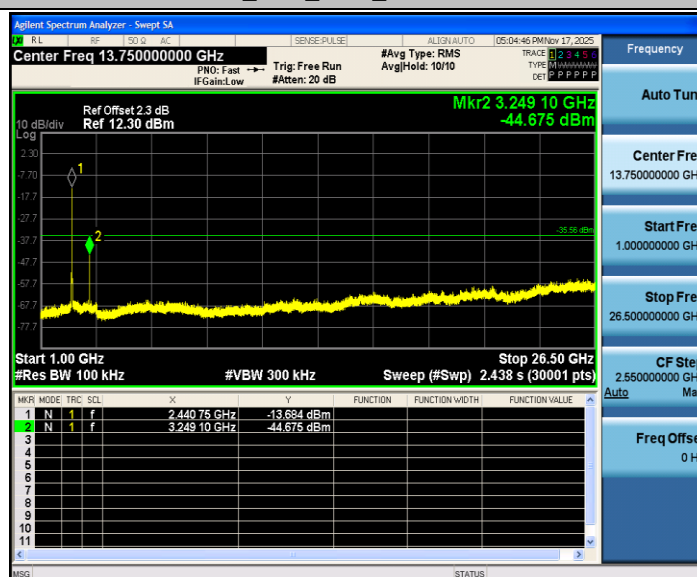
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



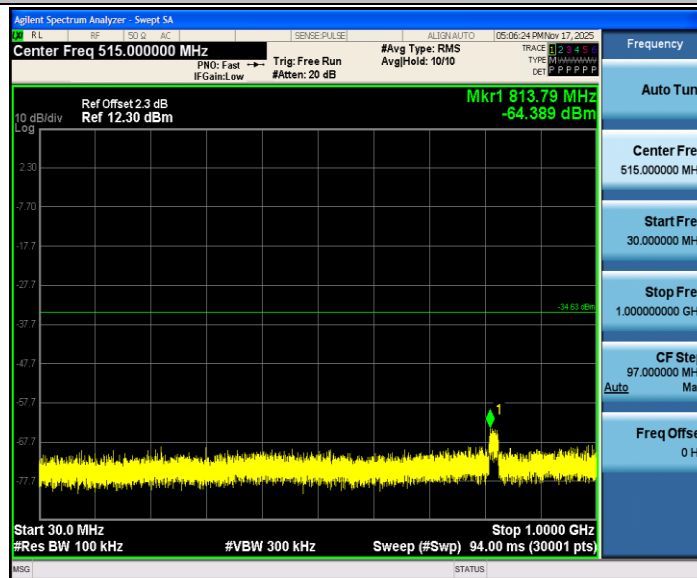
11G_Ant1_2437_1000~26500



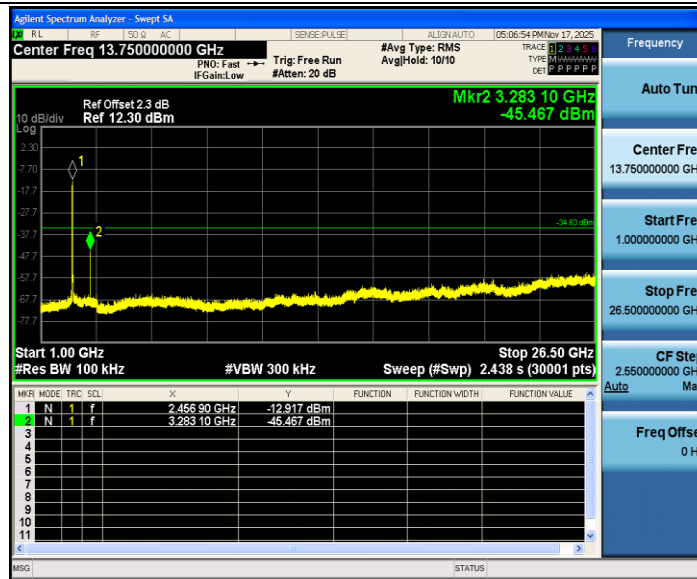
11G_Ant1_2462_0~Reference



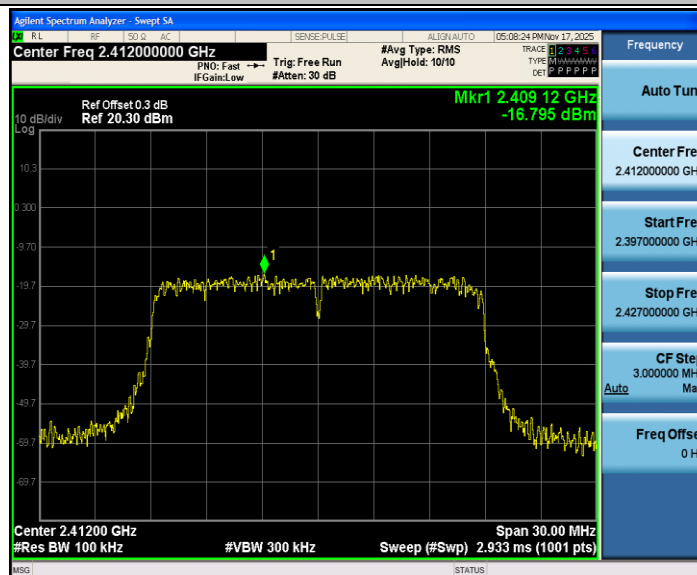
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

