

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BTV4-RFB232SBINTND

Company : Jeddy Ventures Limited Liability Company

EUT : Serial to Bluetooth SPP/BLE Converter, internal
antenna, No DIN

Model Number : RF-B-232-SB-INT-ND

Report No. : CTA25112802403

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	10.240	2406.920	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.680	2404.440	2420.120	0.5	PASS
		2437	16.040	2429.000	2445.040	0.5	PASS
		2462	15.600	2454.120	2469.720	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.400	2420.720	0.5	PASS
		2437	17.160	2428.520	2445.680	0.5	PASS
		2462	17.360	2453.280	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.240	2439.840	0.5	PASS
		2437	35.680	2419.240	2454.920	0.5	PASS
		2452	35.680	2434.240	2469.920	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



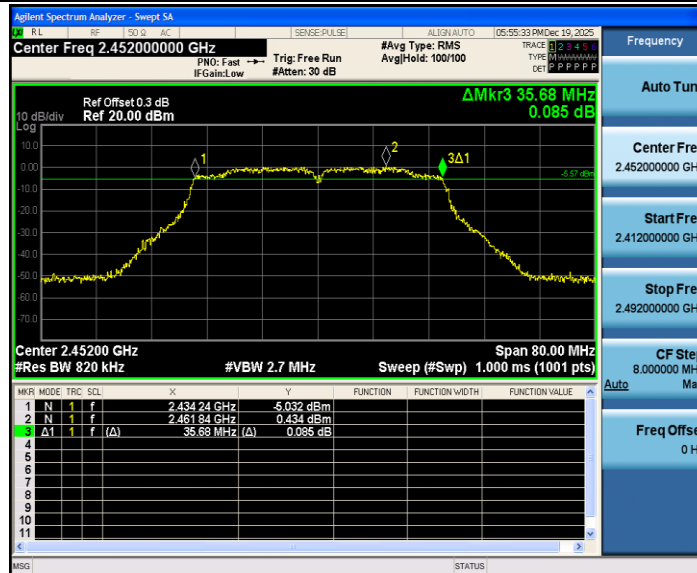
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



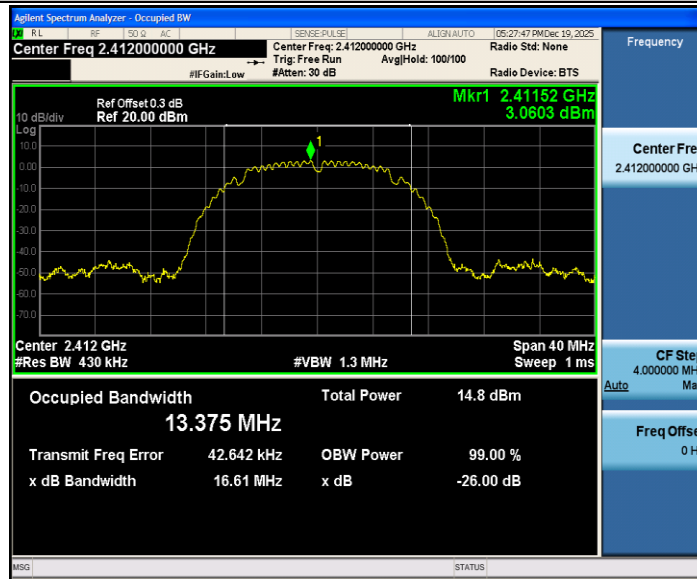
Appendix B: Occupied Channel Bandwidth

Test Result

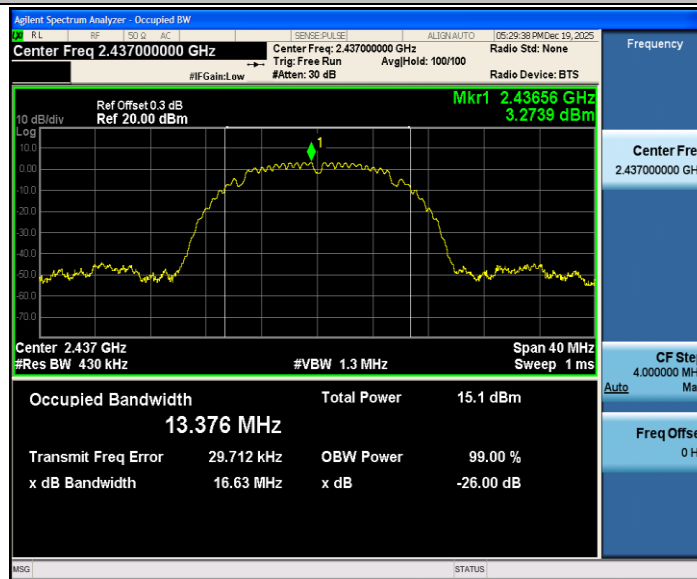
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.375	2405.3551	2418.7301	---	---
		2437	13.376	2430.3417	2443.7177	---	---
		2462	13.390	2455.3188	2468.7088	---	---
11G	Ant1	2412	16.717	2403.7307	2420.4477	---	---
		2437	16.705	2428.6858	2445.3908	---	---
		2462	16.754	2453.6690	2470.4230	---	---
11N20SISO	Ant1	2412	17.811	2403.1449	2420.9559	---	---
		2437	17.807	2428.1113	2445.9183	---	---
		2462	17.858	2453.0834	2470.9414	---	---
11N40SISO	Ant1	2422	35.959	2404.1029	2440.0619	---	---
		2437	36.033	2419.0692	2455.1022	---	---
		2452	36.045	2434.0590	2470.1040	---	---

Test Graphs

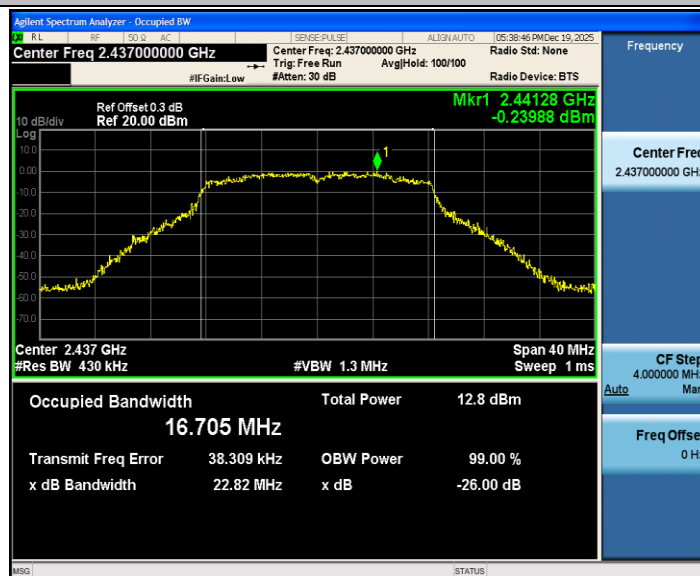
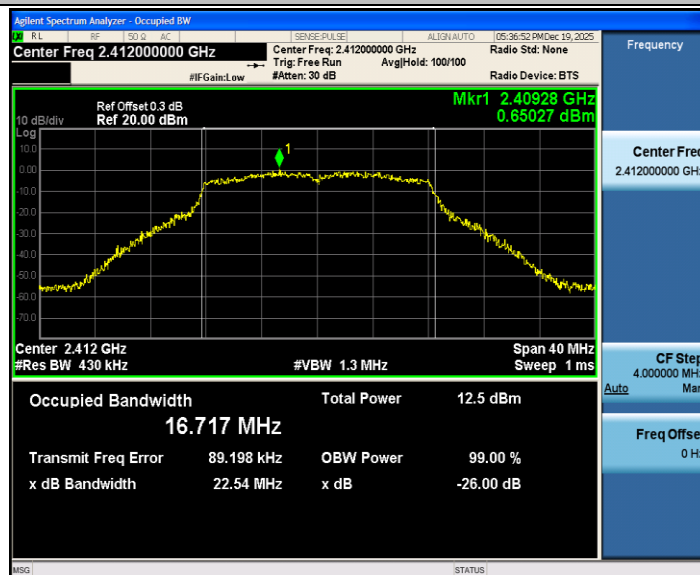
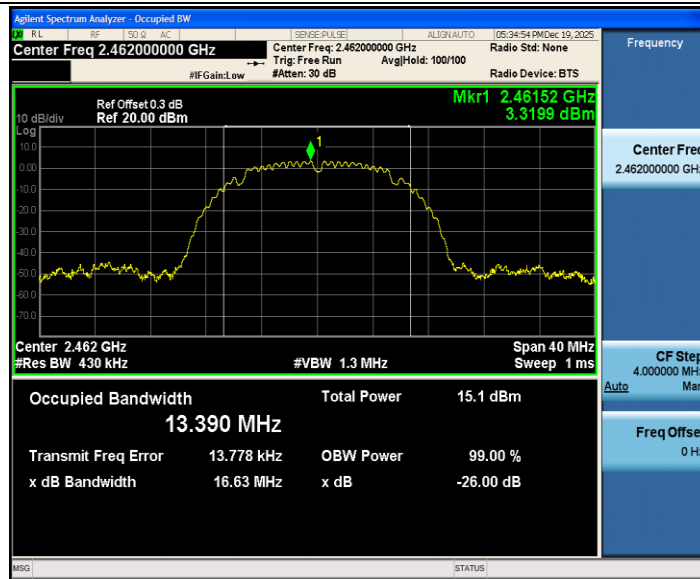
11B_Ant1_2412



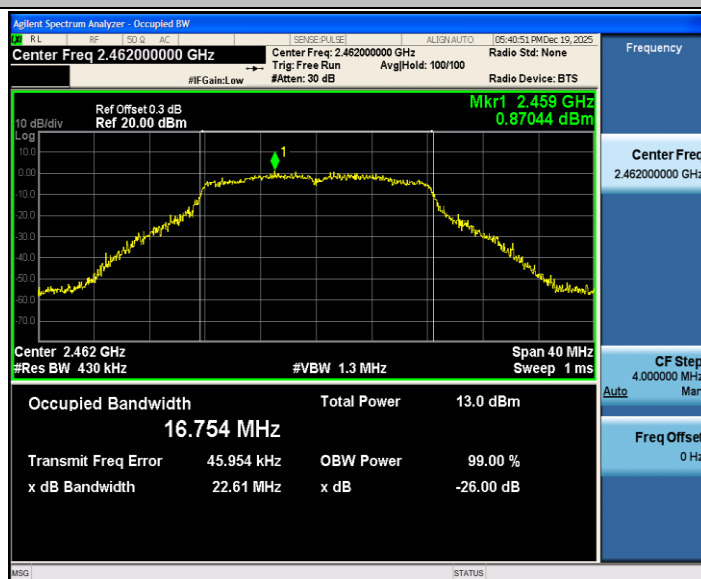
11B_Ant1_2437



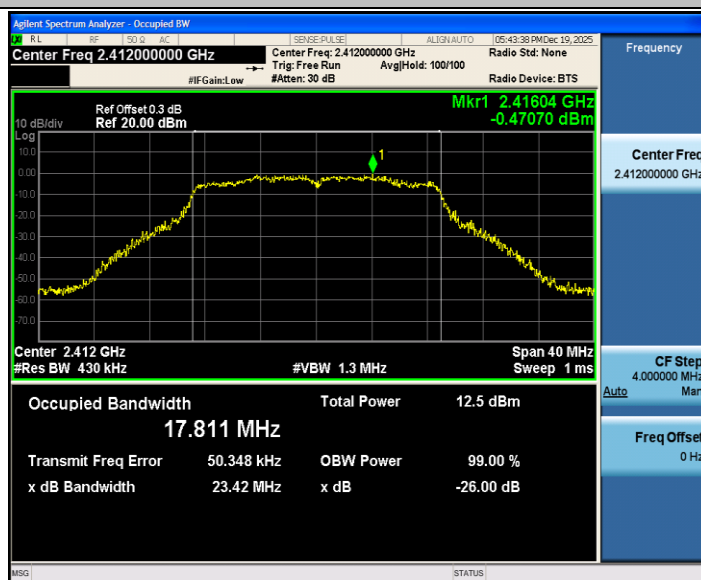
11B_Ant1_2462



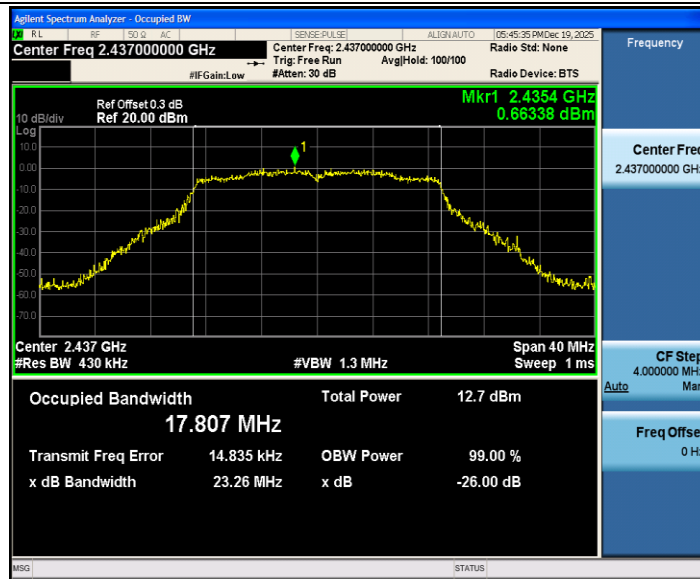
11G_Ant1_2462



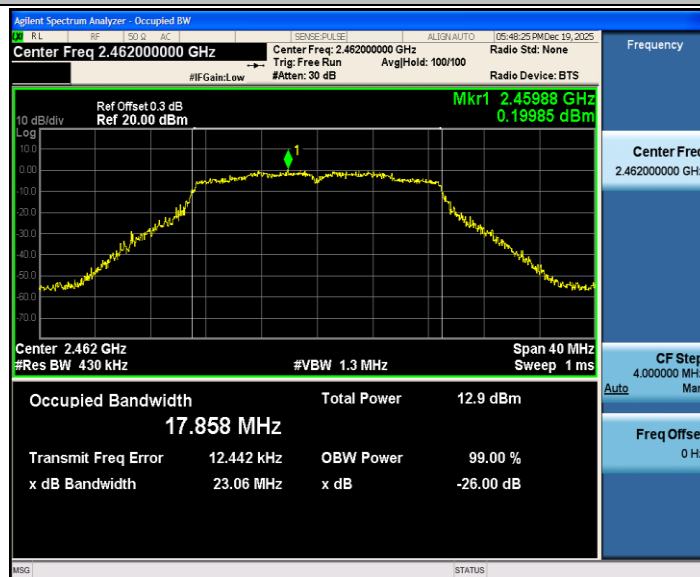
11N20SISO_Ant1_2412



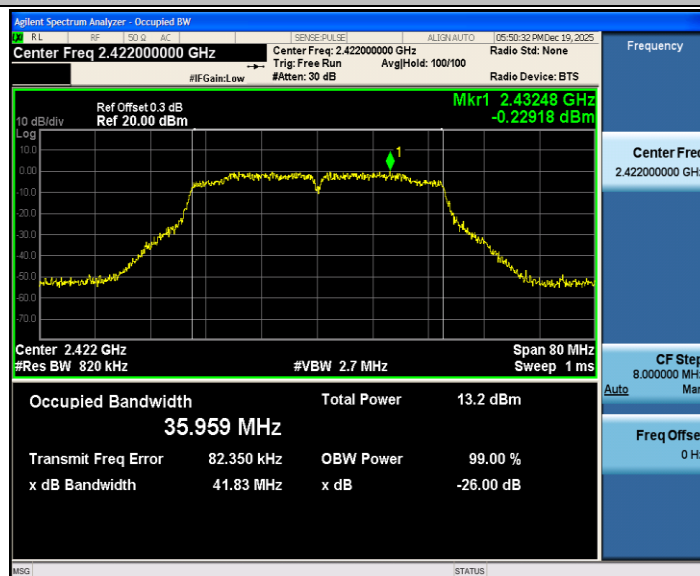
11N20SISO_Ant1_2437



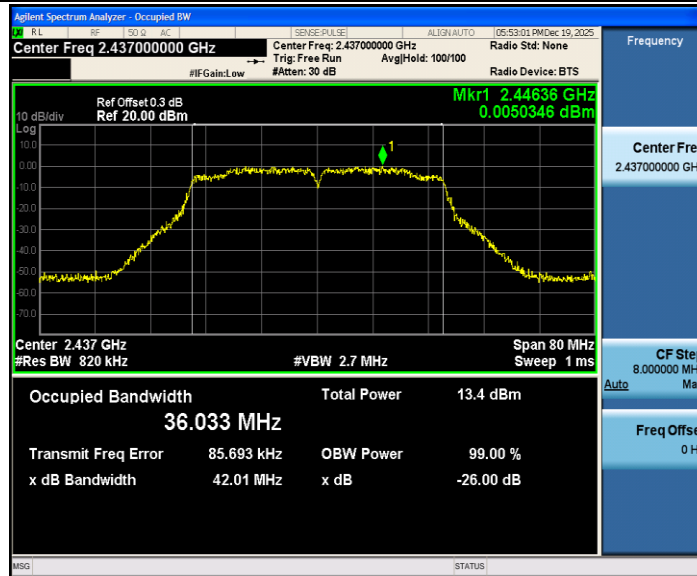
11N20SISO_Ant1_2462



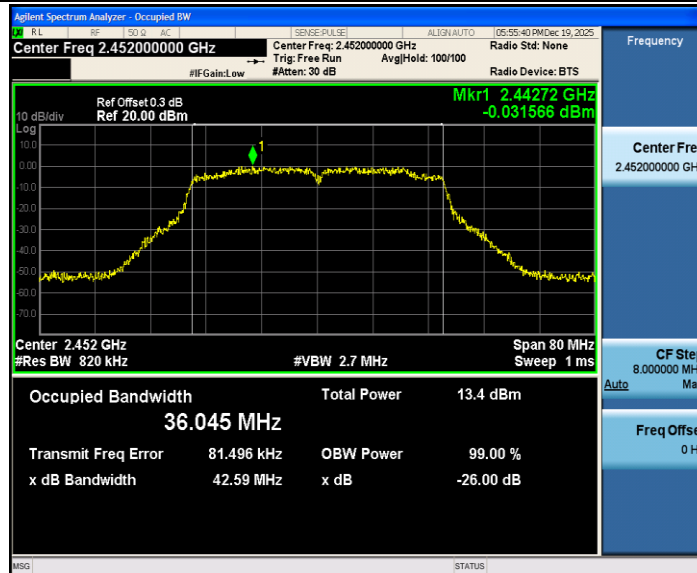
11N40SISO_Ant1_2422



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	14.76	≤30.00	PASS
		2437	14.86	≤30.00	PASS
		2462	14.99	≤30.00	PASS
11G	Ant1	2412	13.10	≤30.00	PASS
		2437	13.35	≤30.00	PASS
		2462	13.48	≤30.00	PASS
11N20SISO	Ant1	2412	13.17	≤30.00	PASS
		2437	13.17	≤30.00	PASS
		2462	13.44	≤30.00	PASS
11N40SISO	Ant1	2422	13.44	≤30.00	PASS
		2437	13.70	≤30.00	PASS
		2452	13.63	≤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	-11.36	≤8.00	PASS
		2437	-11.28	≤8.00	PASS
		2462	-10.99	≤8.00	PASS
11G	Ant1	2412	-17.43	≤8.00	PASS
		2437	-17.14	≤8.00	PASS
		2462	-17.46	≤8.00	PASS
11N20SISO	Ant1	2412	-15.68	≤8.00	PASS
		2437	-16.65	≤8.00	PASS
		2462	-17.22	≤8.00	PASS
11N40SISO	Ant1	2422	-20.25	≤8.00	PASS
		2437	-18.78	≤8.00	PASS
		2452	-19.52	≤8.00	PASS

Test Graphs

11B_Ant1_2412



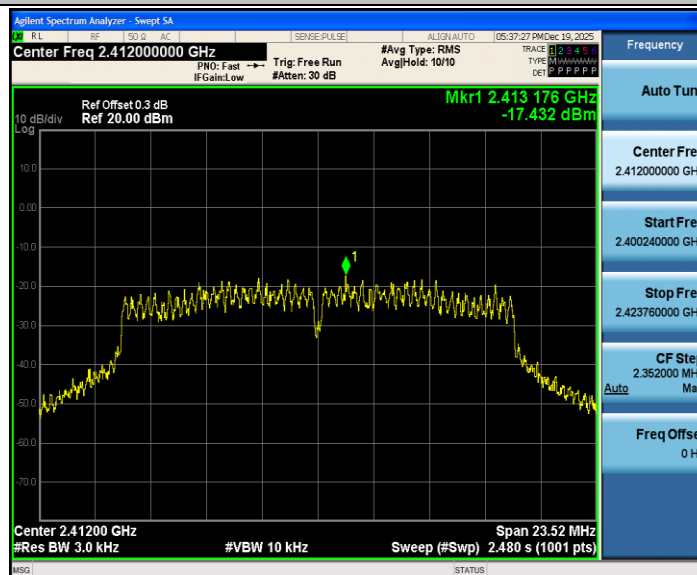
11B_Ant1_2437



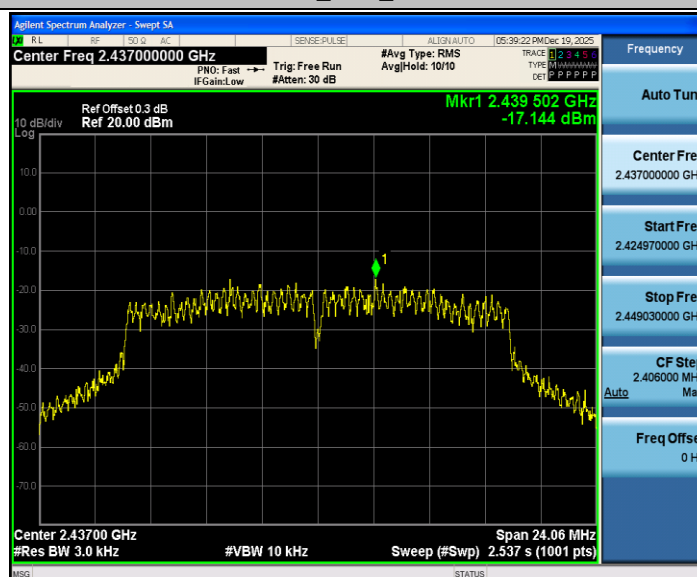
11B_Ant1_2462



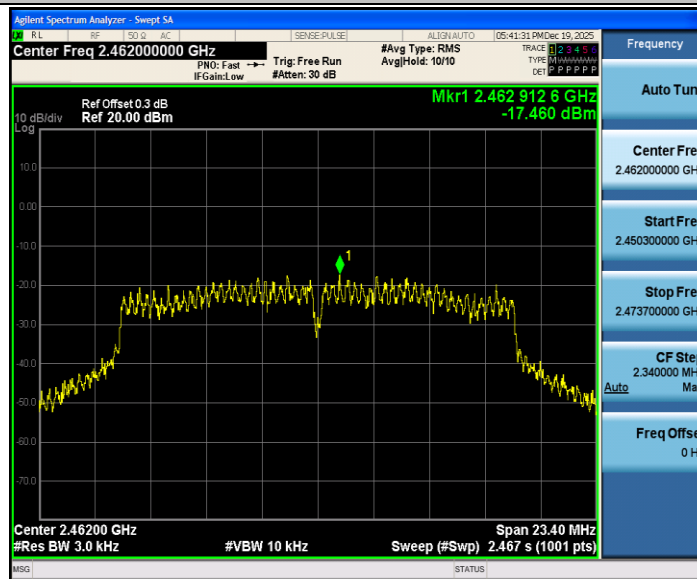
11G_Ant1_2412



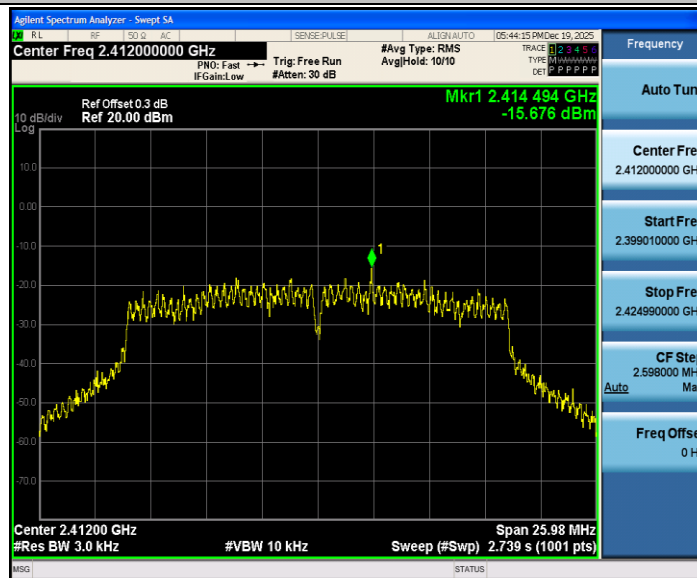
11G_Ant1_2437



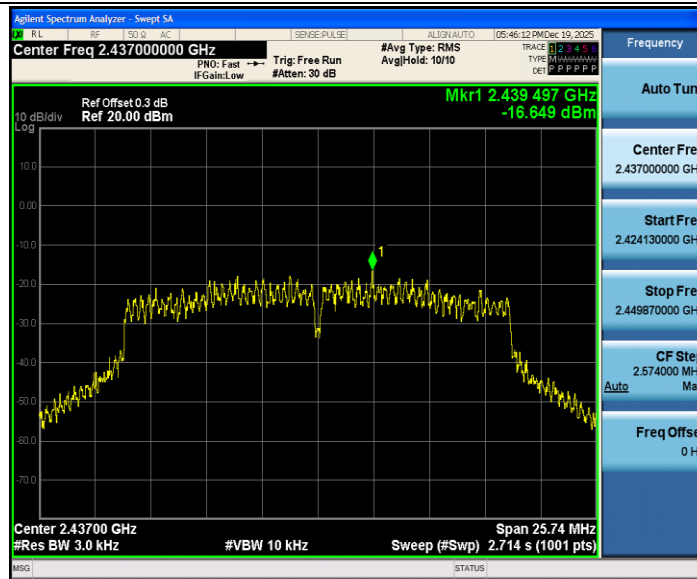
11G_Ant1_2462



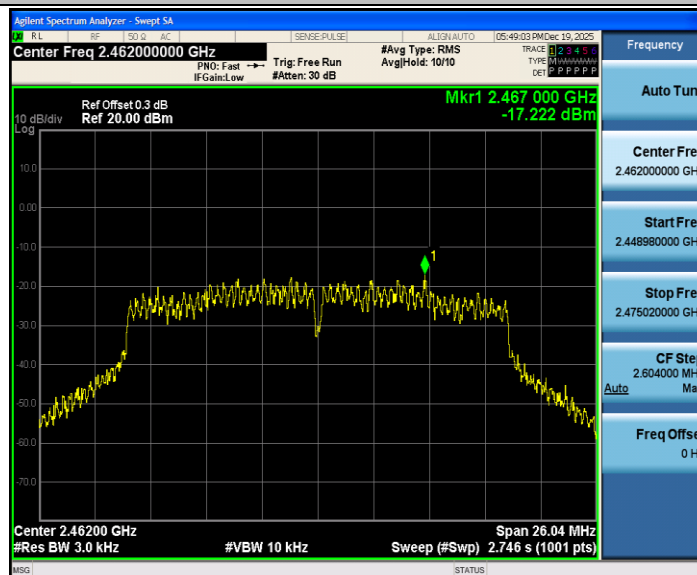
11N20SISO_Ant1_2412



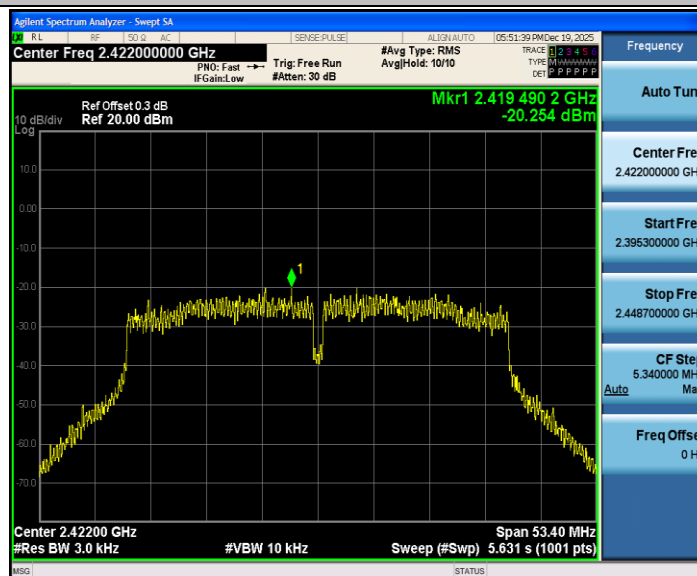
11N20SISO_Ant1_2437



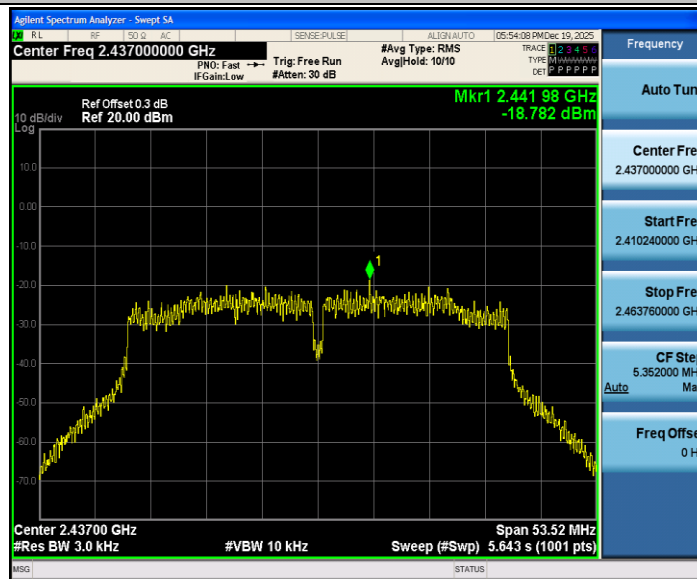
11N20SISO_Ant1_2462



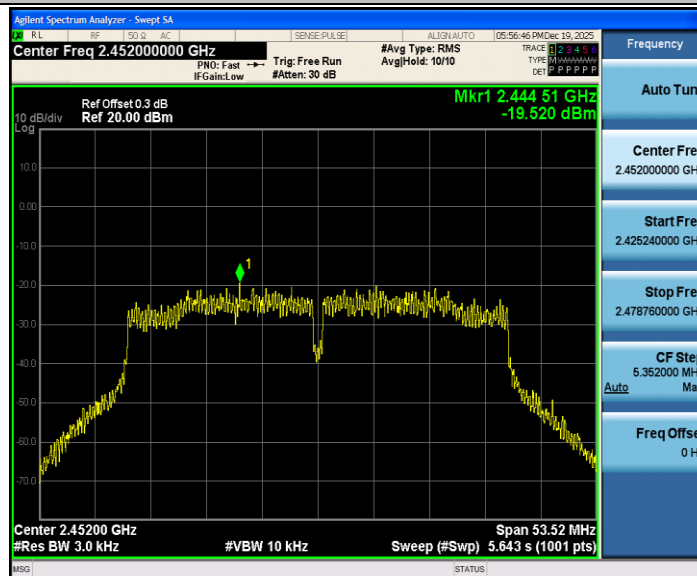
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



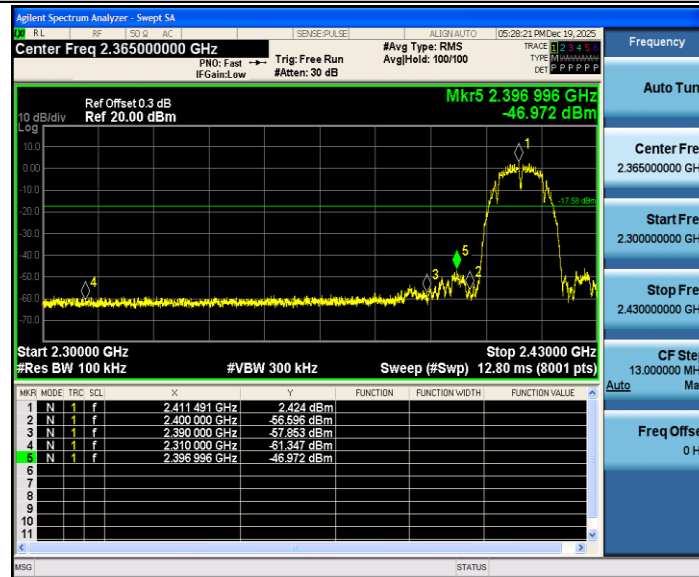
Appendix E: Band edge measurements

Test Result

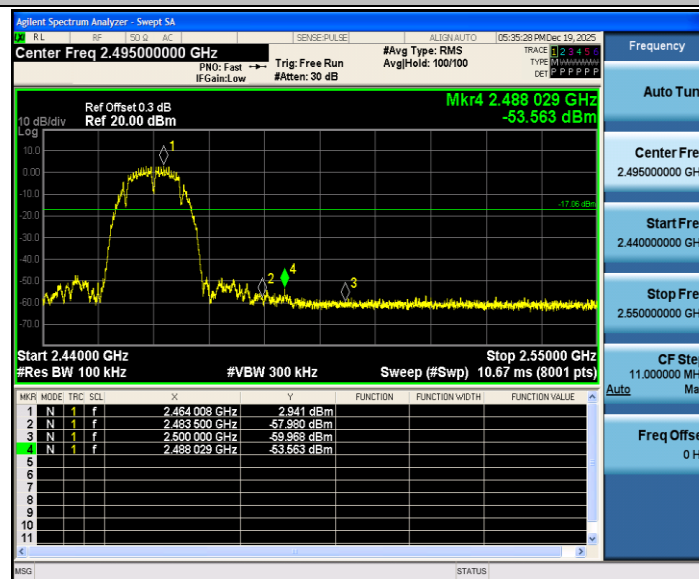
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.42	-46.97	≤-17.58	PASS
		High	2462	2.94	-53.56	≤-17.06	PASS
11G	Ant1	Low	2412	-2.71	-35.14	≤-22.71	PASS
		High	2462	-2.41	-58.06	≤-22.41	PASS
11N20SISO	Ant1	Low	2412	-2.41	-33.4	≤-22.41	PASS
		High	2462	-2.08	-57.63	≤-22.08	PASS
11N40SISO	Ant1	Low	2422	-5.64	-34.28	≤-25.64	PASS
		High	2452	-5.38	-57.47	≤-25.38	PASS

Test Graphs

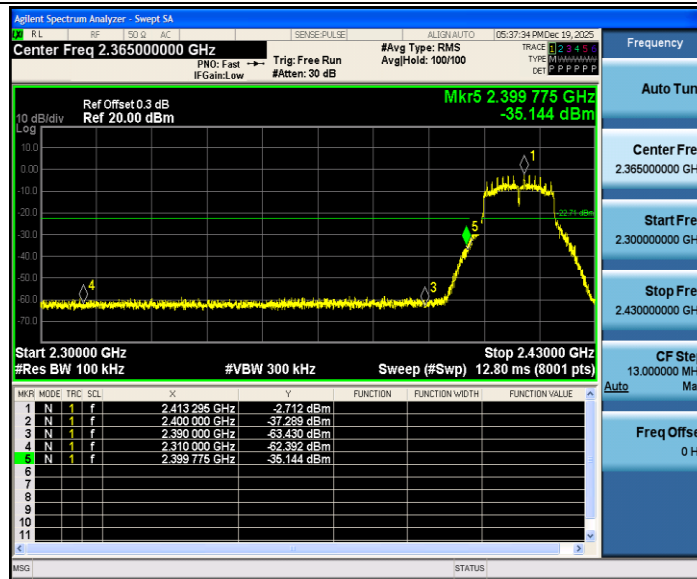
11B_Ant1_Low_2412



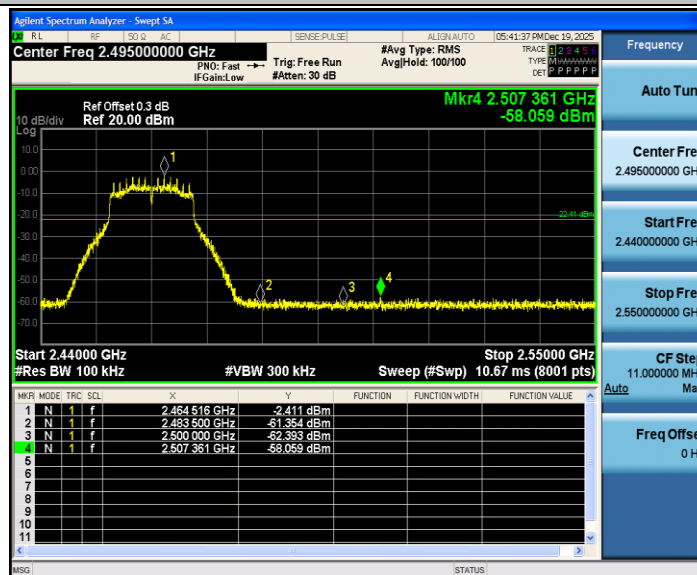
11B_Ant1_High_2462



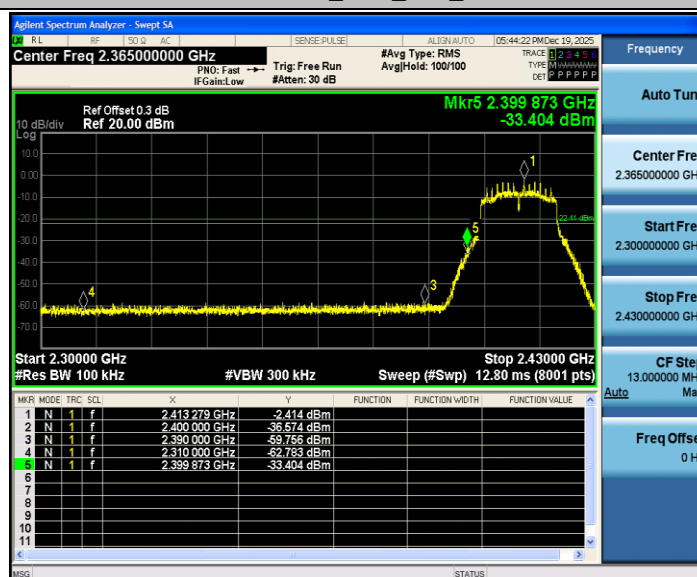
11G_Ant1_Low_2412



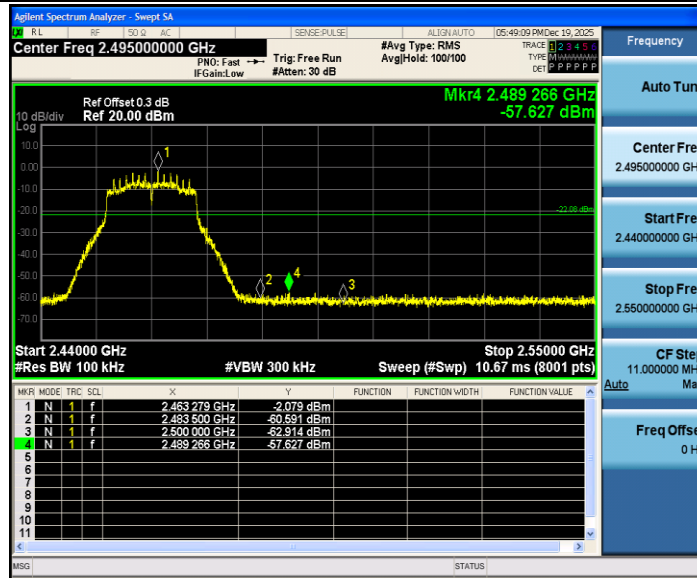
11G_Ant1_High_2462



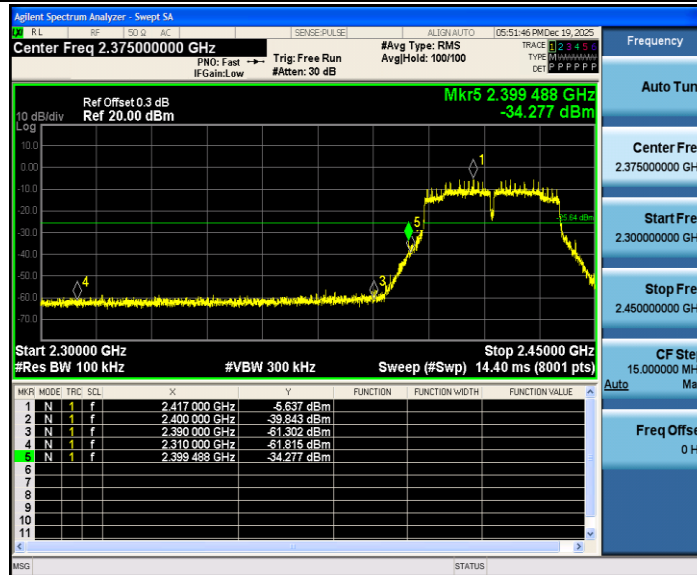
11N20SISO_Ant1_Low_2412



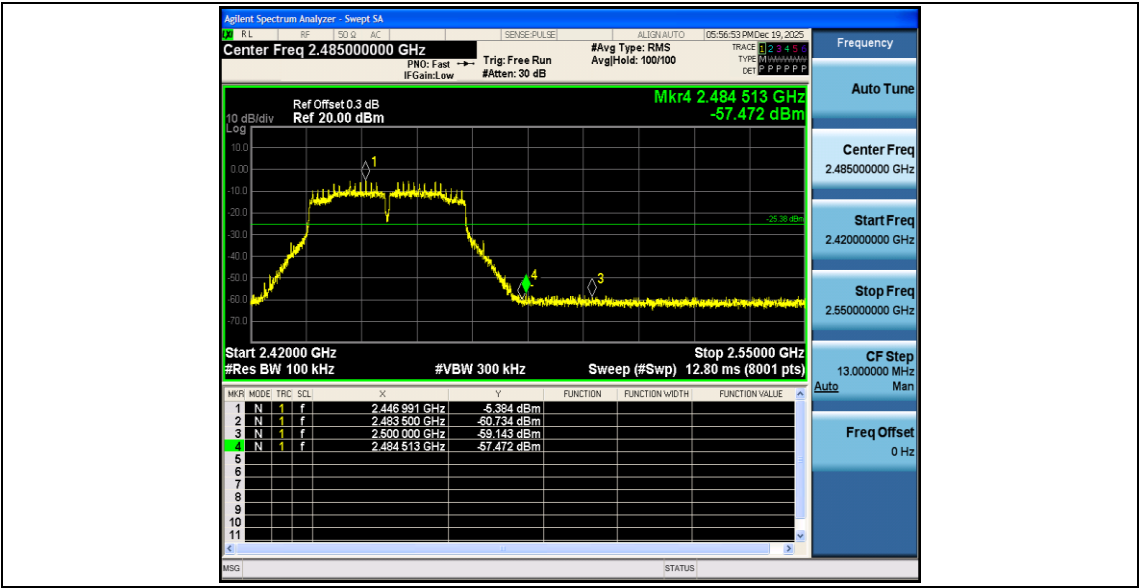
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

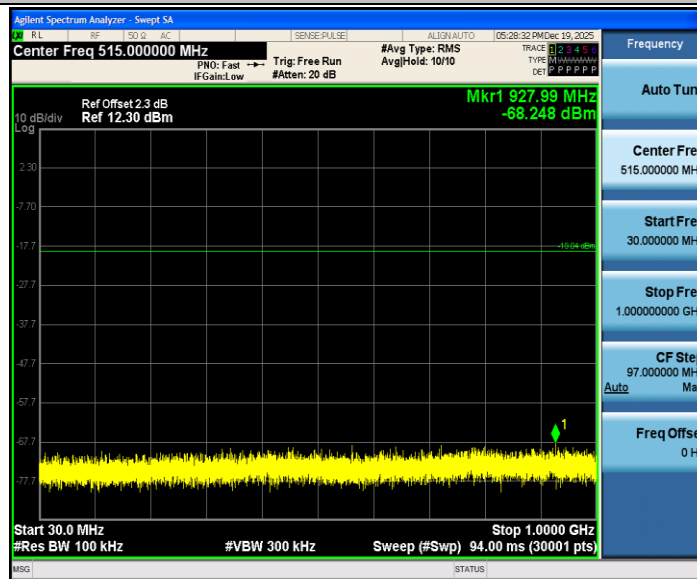
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.96	0.96	---	PASS
			30~1000	0.96	-68.25	≤-19.04	PASS
			1000~26500	0.96	-54.51	≤-19.04	PASS
		2437	Reference	1.75	1.75	---	PASS
			30~1000	1.75	-67.79	≤-18.25	PASS
			1000~26500	1.75	-54.3	≤-18.25	PASS
		2462	Reference	2.59	2.59	---	PASS
			30~1000	2.59	-66.25	≤-17.41	PASS
			1000~26500	2.59	-54.89	≤-17.41	PASS
11G	Ant1	2412	Reference	-3.32	-3.32	---	PASS
			30~1000	-3.32	-67.44	≤-23.32	PASS
			1000~26500	-3.32	-54.96	≤-23.32	PASS
		2437	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-68.39	≤-22.23	PASS
			1000~26500	-2.23	-53.85	≤-22.23	PASS
		2462	Reference	-2.18	-2.18	---	PASS
			30~1000	-2.18	-67.43	≤-22.18	PASS
			1000~26500	-2.18	-55.19	≤-22.18	PASS
11N20SISO	Ant1	2412	Reference	-3.21	-3.21	---	PASS
			30~1000	-3.21	-68.39	≤-23.21	PASS
			1000~26500	-3.21	-55.21	≤-23.21	PASS
		2437	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-68.67	≤-22.65	PASS
			1000~26500	-2.65	-55.21	≤-22.65	PASS
		2462	Reference	-3.52	-3.52	---	PASS
			30~1000	-3.52	-68.02	≤-23.52	PASS
			1000~26500	-3.52	-54.92	≤-23.52	PASS
11N40SISO	Ant1	2422	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-67.71	≤-25.91	PASS
			1000~26500	-5.91	-54.69	≤-25.91	PASS
		2437	Reference	-5.79	-5.79	---	PASS
			30~1000	-5.79	-68.3	≤-25.79	PASS
			1000~26500	-5.79	-55.14	≤-25.79	PASS
		2452	Reference	-5.70	-5.70	---	PASS
			30~1000	-5.70	-68.58	≤-25.7	PASS
			1000~26500	-5.70	-55.67	≤-25.7	PASS

Test Graphs

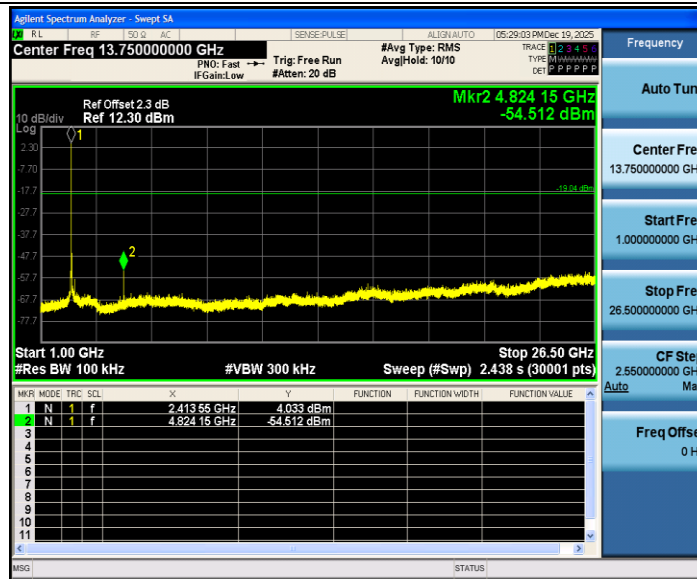
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



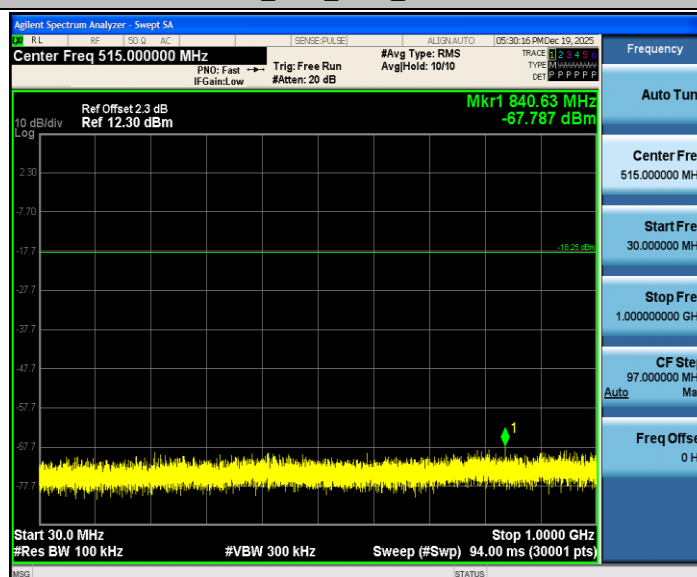
11B_Ant1_2412_1000~26500



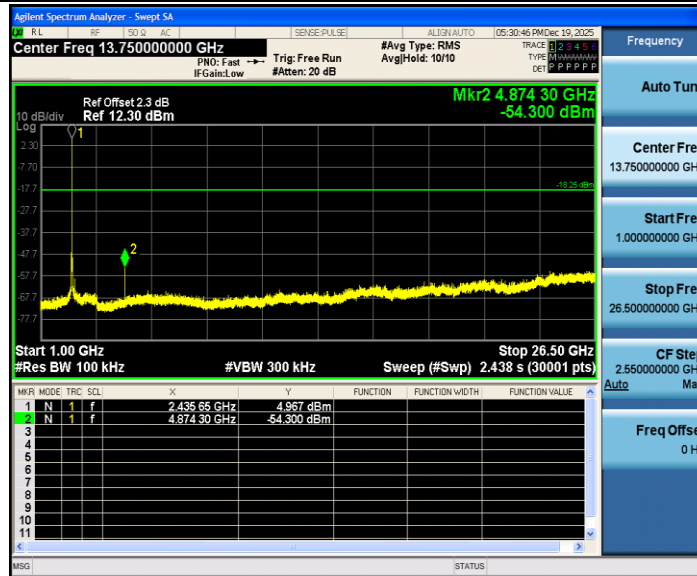
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



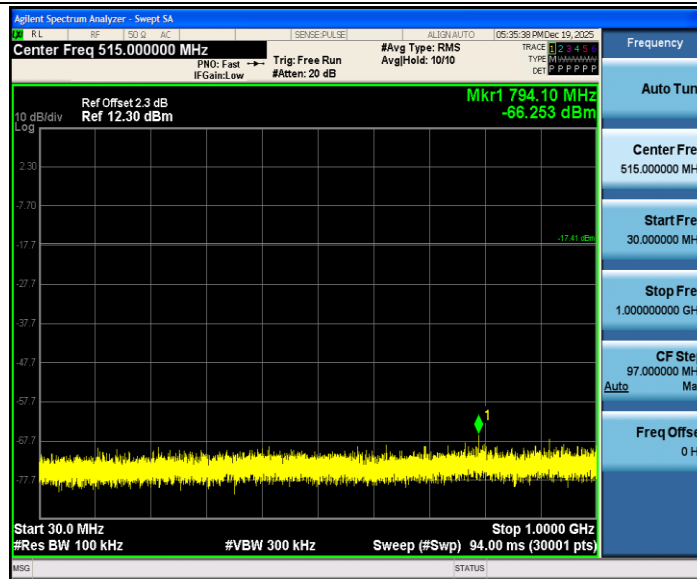
11B_Ant1_2437_1000~26500



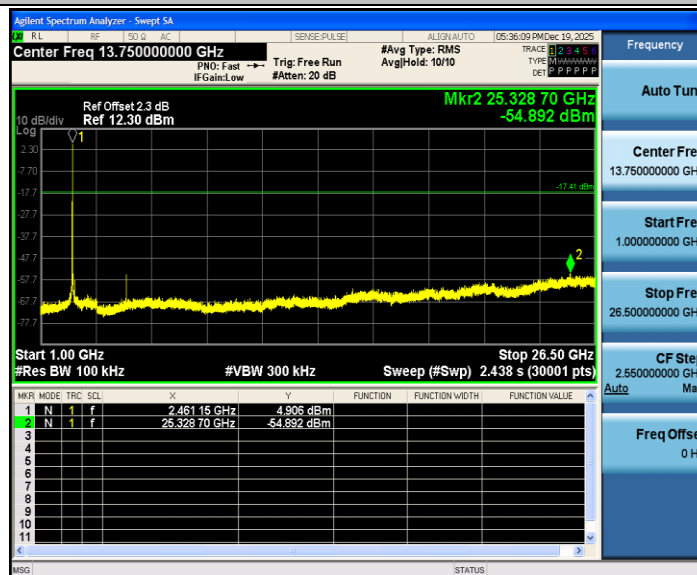
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

