

FCC Appendix RF Test Data

FCC ID : 2A5XO-CT706

Company : Shenzhen Boyi Electronics Co., Ltd.

EUT : Dashcam

Model Number : CT706

Report No. : CTA25062400201

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	9.760	2407.280	2417.040	0.5	PASS
		2437	8.760	2432.280	2441.040	0.5	PASS
		2462	9.520	2457.000	2466.520	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.680	2429.480	2445.160	0.5	PASS
		2462	16.080	2454.080	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.080	2404.440	2420.520	0.5	PASS
		2437	16.200	2429.440	2445.640	0.5	PASS
		2462	16.800	2453.680	2470.480	0.5	PASS
11N40SISO	Ant1	2422	35.360	2404.480	2439.840	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.360	2434.240	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



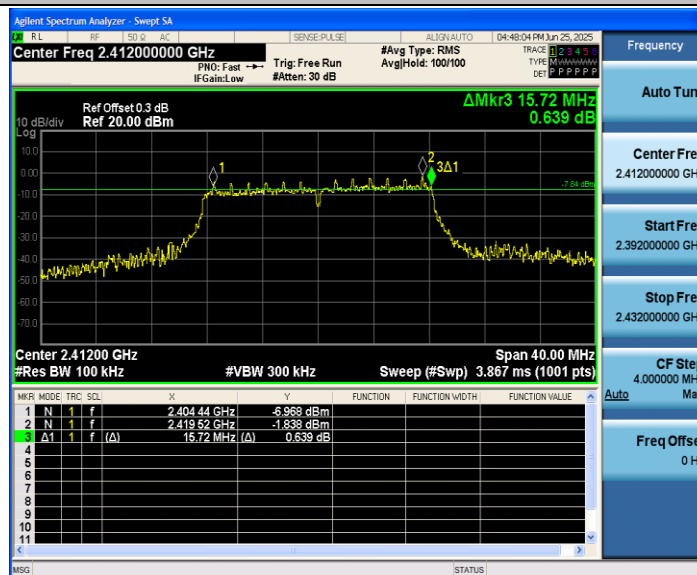
11B_Ant1_2437



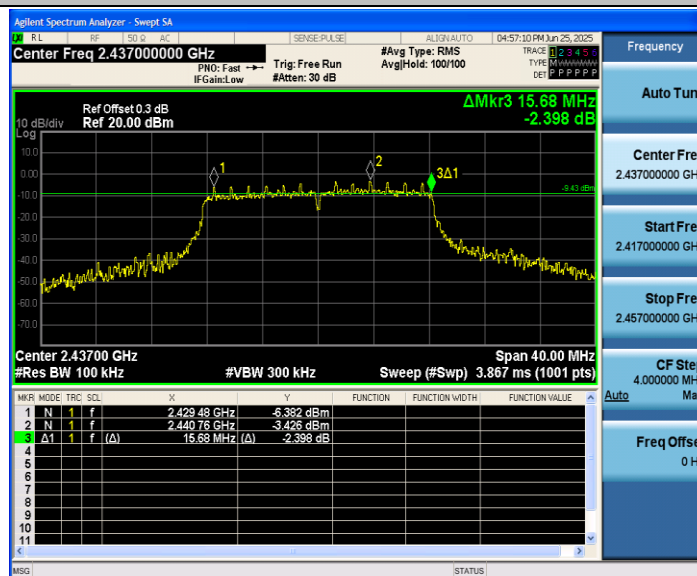
11B_Ant1_2462



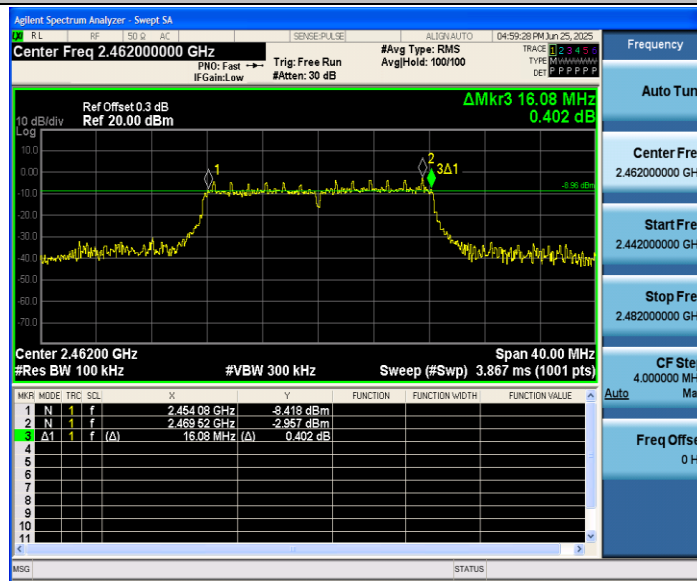
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



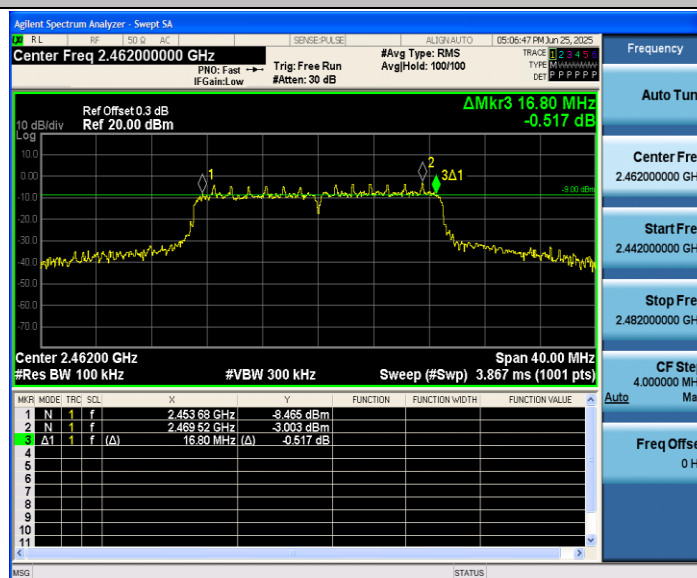
11N20SISO_Ant1_2412



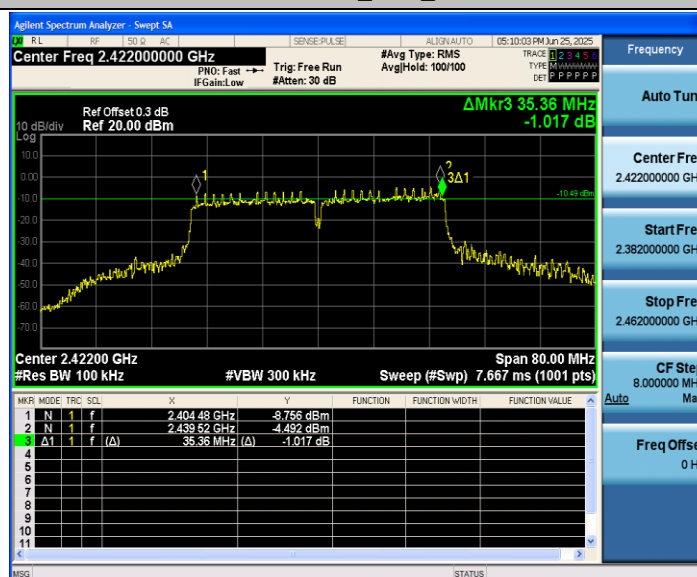
11N20SISO_Ant1_2437



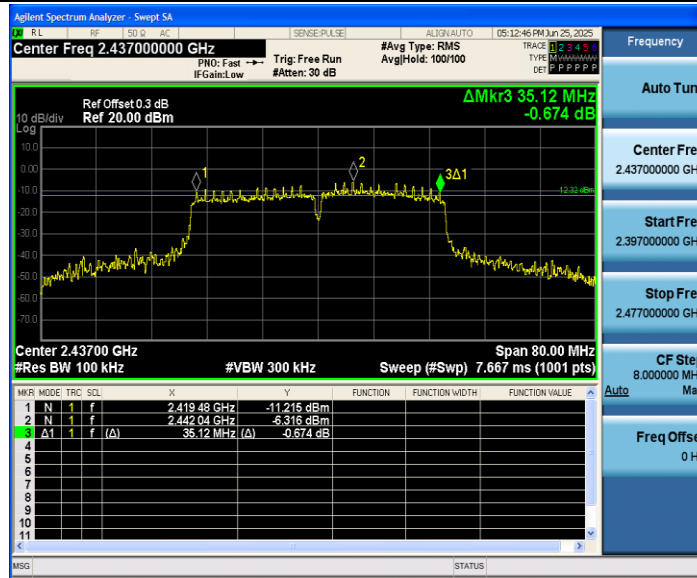
11N20SISO_Ant1_2462



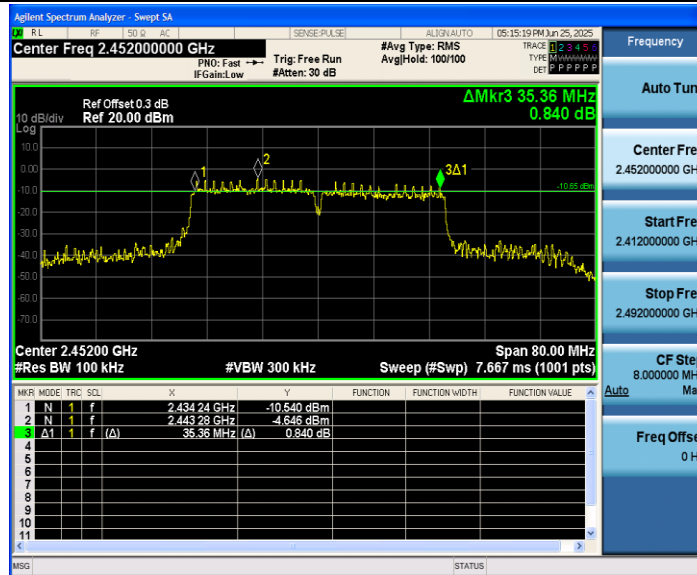
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



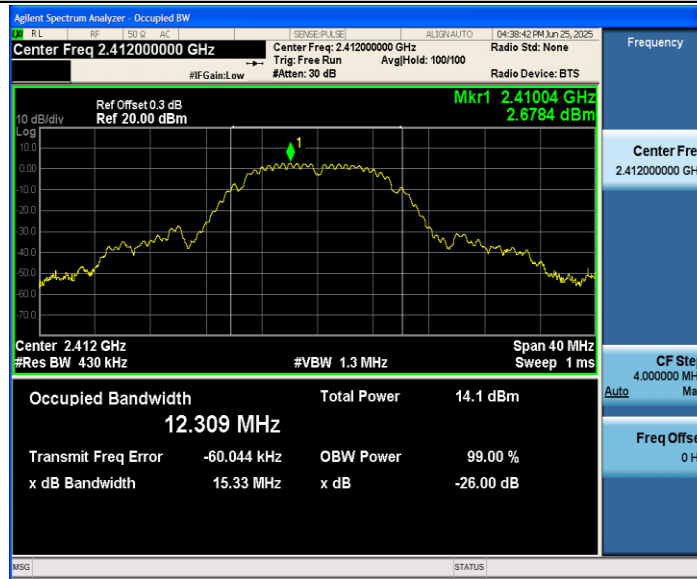
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.309	2405.7855	2418.0945	---	---
		2437	11.531	2430.9981	2442.5291	---	---
		2462	12.707	2455.4543	2468.1613	---	---
11G	Ant1	2412	16.767	2403.7765	2420.5435	---	---
		2437	16.622	2428.8300	2445.4520	---	---
		2462	16.984	2453.5817	2470.5657	---	---
11N20SISO	Ant1	2412	17.907	2403.2351	2421.1421	---	---
		2437	17.599	2428.3345	2445.9335	---	---
		2462	18.039	2453.1243	2471.1633	---	---
11N40SISO	Ant1	2422	36.433	2404.1658	2440.5988	---	---
		2437	36.064	2419.0390	2455.1030	---	---
		2452	36.438	2433.8011	2470.2391	---	---

Test Graphs

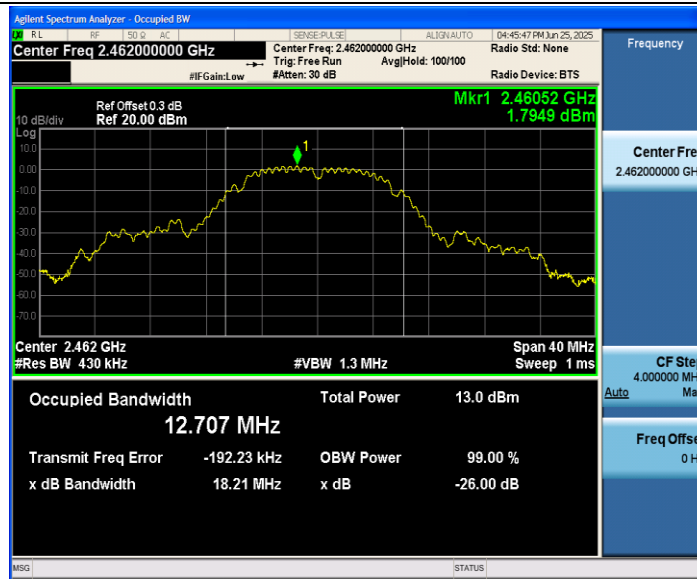
11B_Ant1_2412



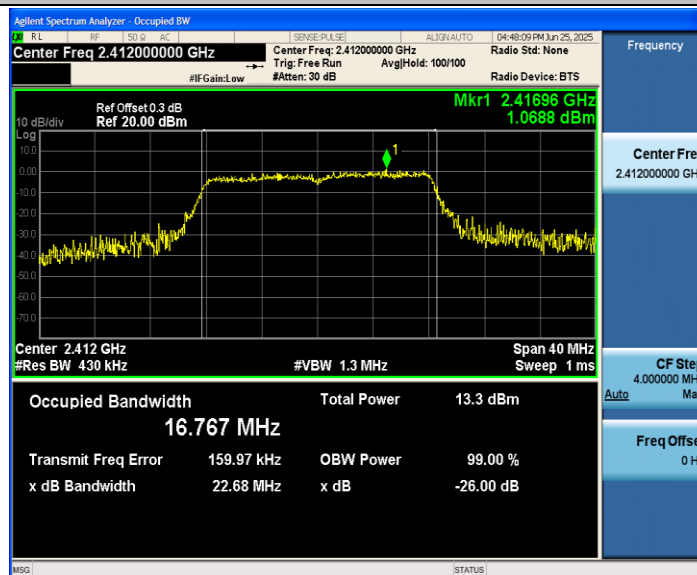
11B_Ant1_2437



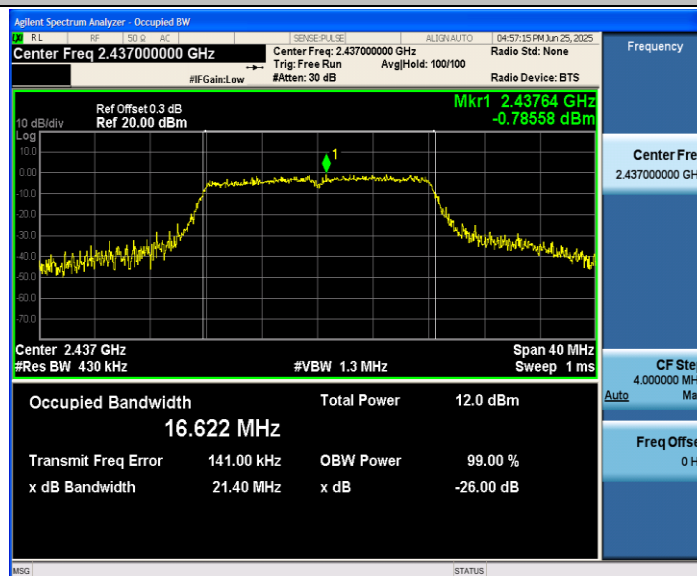
11B_Ant1_2462



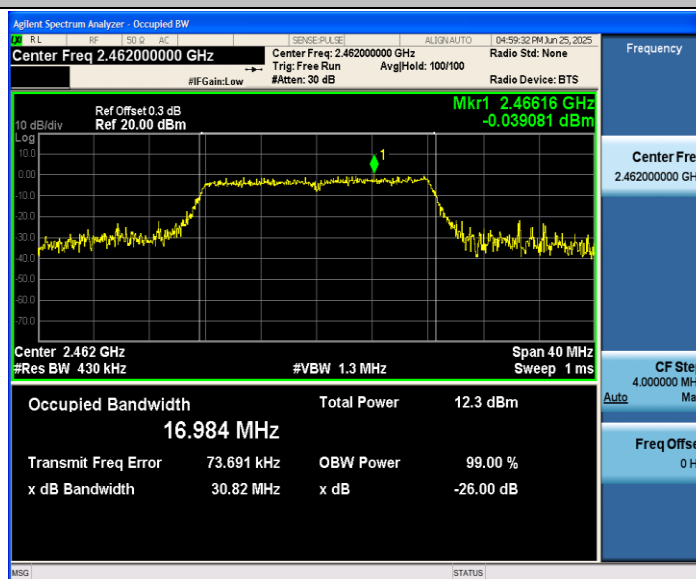
11G_Ant1_2412



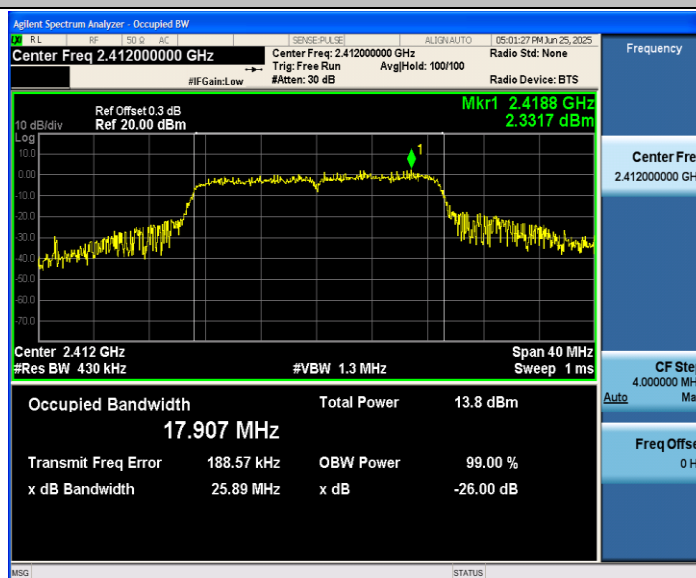
11G_Ant1_2437



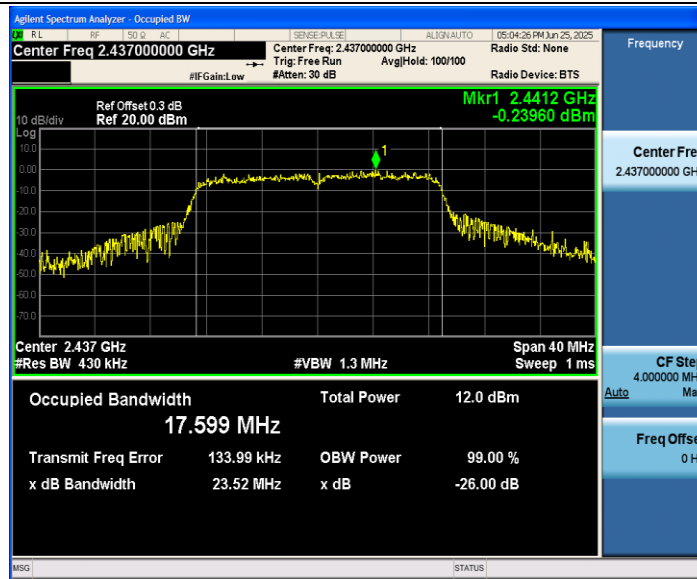
11G_Ant1_2462



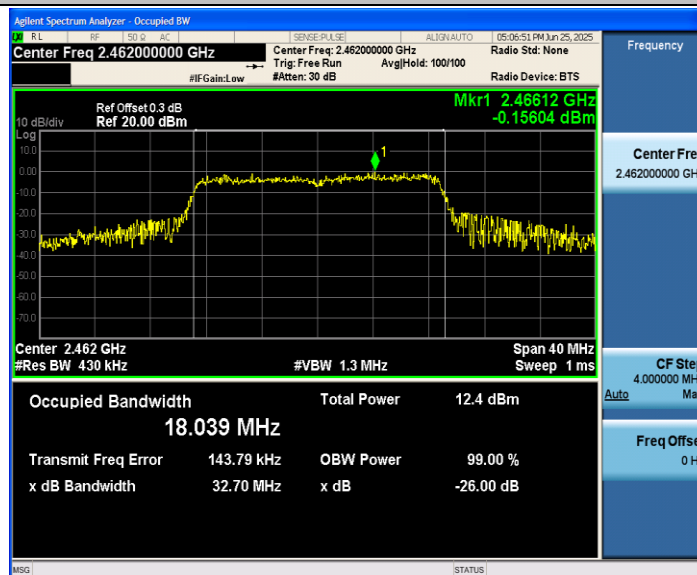
11N20SISO_Ant1_2412



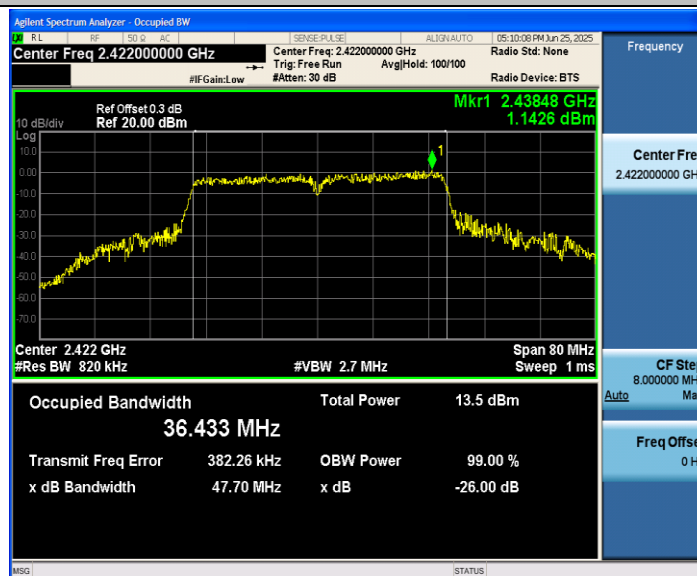
11N20SISO_Ant1_2437



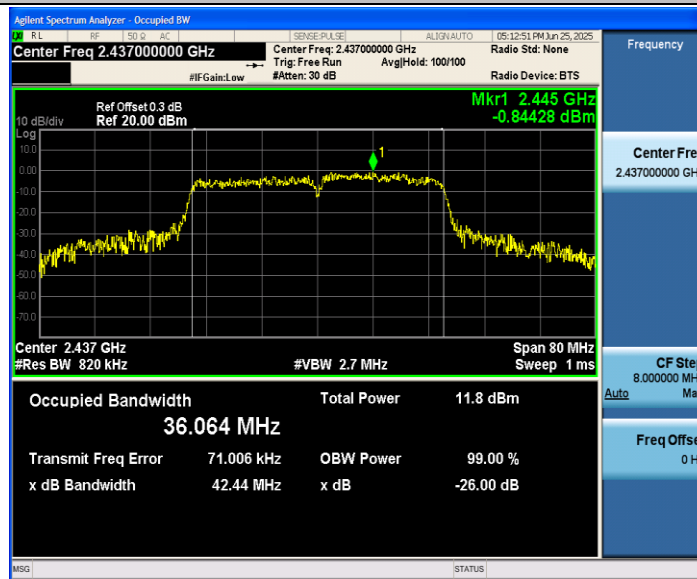
11N20SISO_Ant1_2462



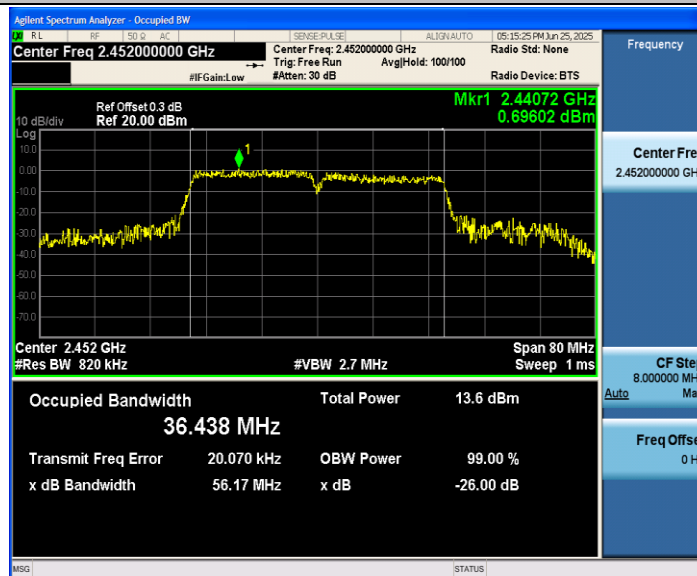
11N40SISO_Ant1_2422



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	14.05	≤30.00	PASS
		2437	12.89	≤30.00	PASS
		2462	12.92	≤30.00	PASS
11G	Ant1	2412	13.67	≤30.00	PASS
		2437	12.46	≤30.00	PASS
		2462	12.81	≤30.00	PASS
11N20SISO	Ant1	2412	14.22	≤30.00	PASS
		2437	12.46	≤30.00	PASS
		2462	12.97	≤30.00	PASS
11N40SISO	Ant1	2422	13.54	≤30.00	PASS
		2437	11.74	≤30.00	PASS
		2452	13.82	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

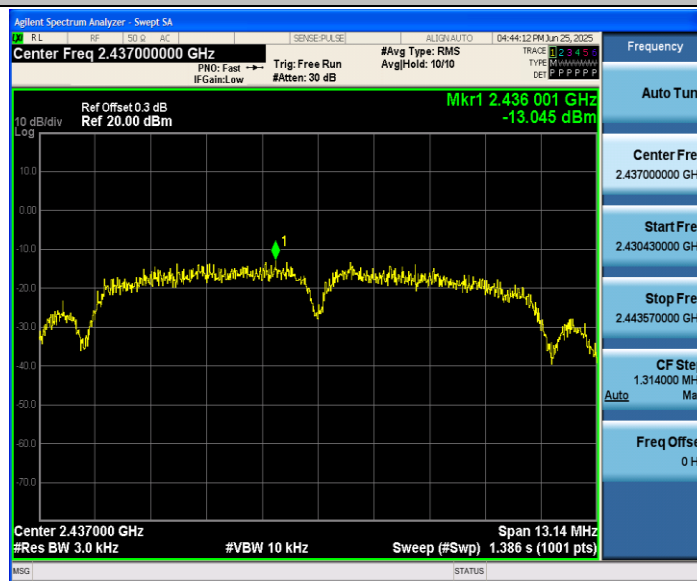
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.65	≤8.00	PASS
		2437	-13.05	≤8.00	PASS
		2462	-13.19	≤8.00	PASS
11G	Ant1	2412	-18.27	≤8.00	PASS
		2437	-18.58	≤8.00	PASS
		2462	-19.82	≤8.00	PASS
11N20SISO	Ant1	2412	-18.08	≤8.00	PASS
		2437	-19.58	≤8.00	PASS
		2462	-19.37	≤8.00	PASS
11N40SISO	Ant1	2422	-20.70	≤8.00	PASS
		2437	-22.77	≤8.00	PASS
		2452	-20.57	≤8.00	PASS

Test Graphs

11B_Ant1_2412



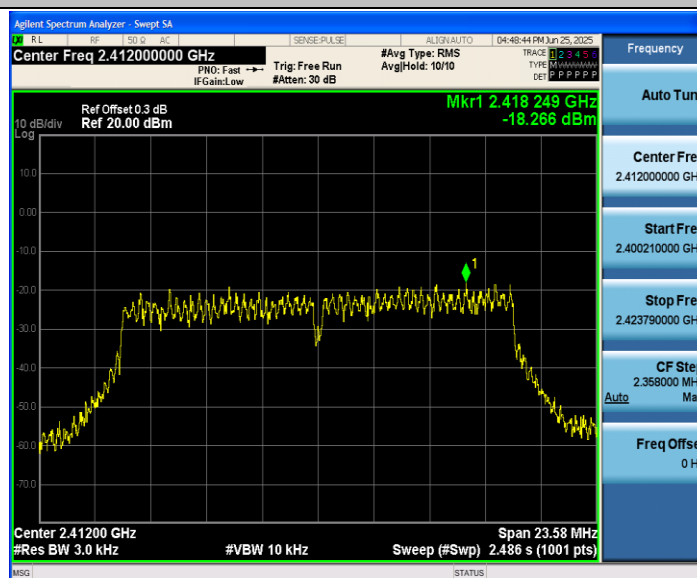
11B_Ant1_2437



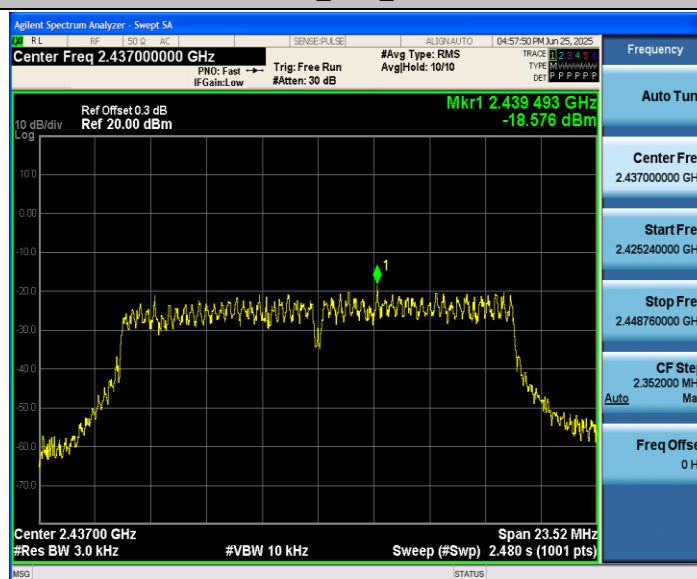
11B_Ant1_2462



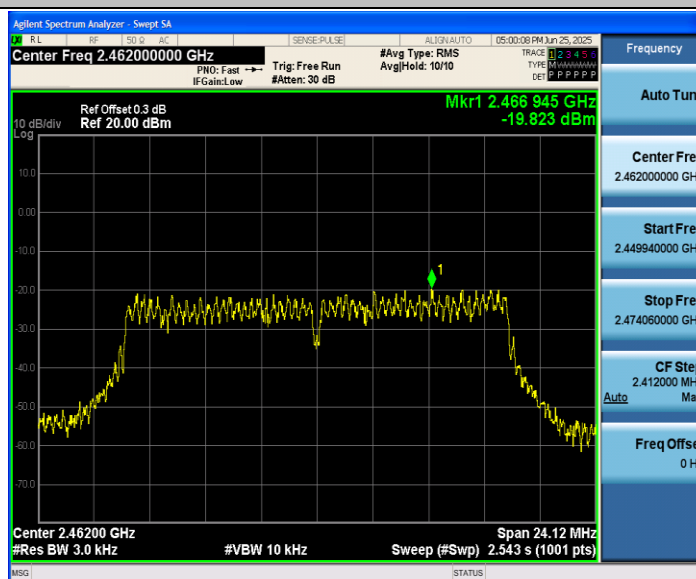
11G_Ant1_2412



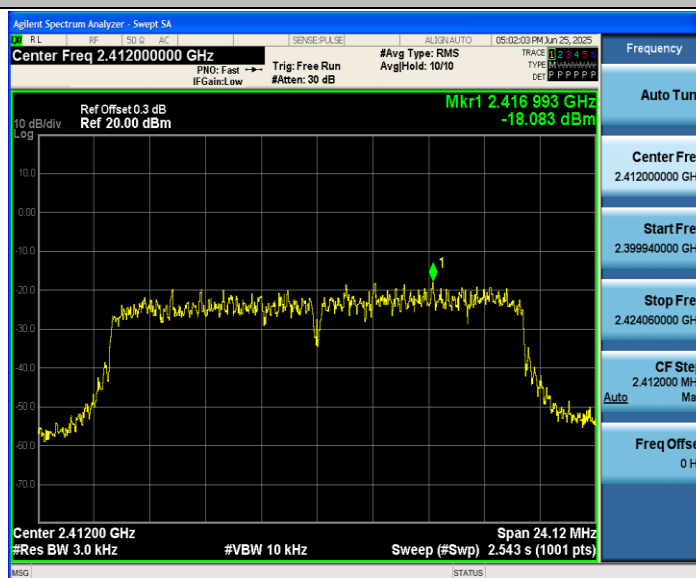
11G_Ant1_2437



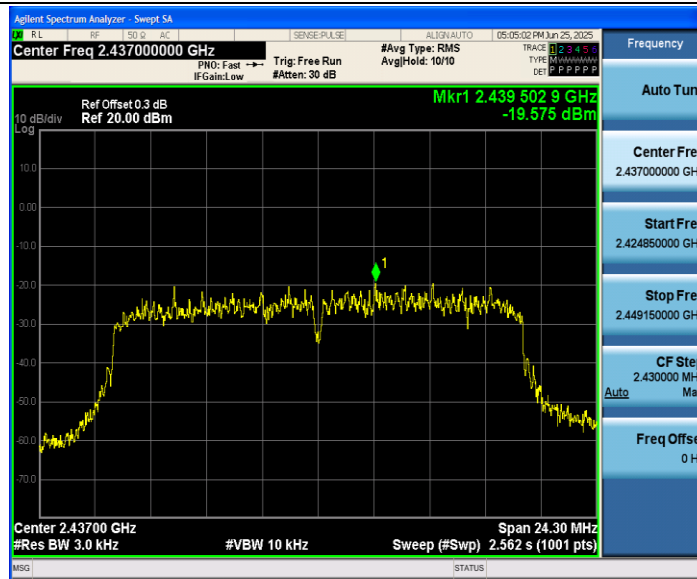
11G_Ant1_2462



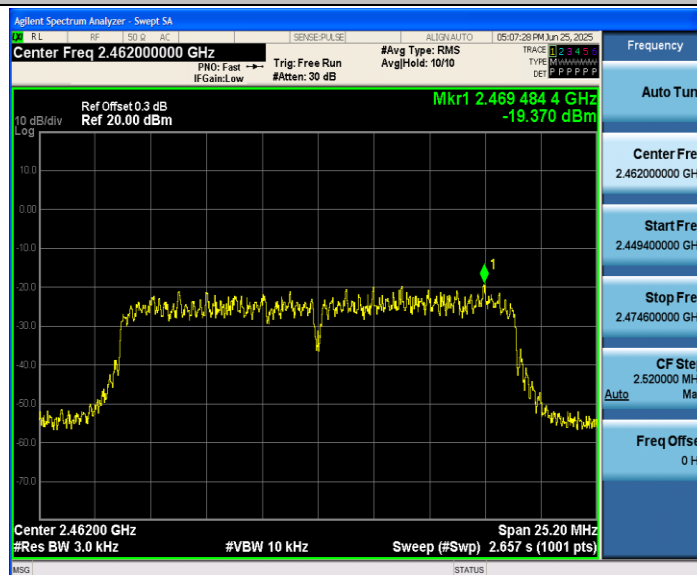
11N20SISO_Ant1_2412



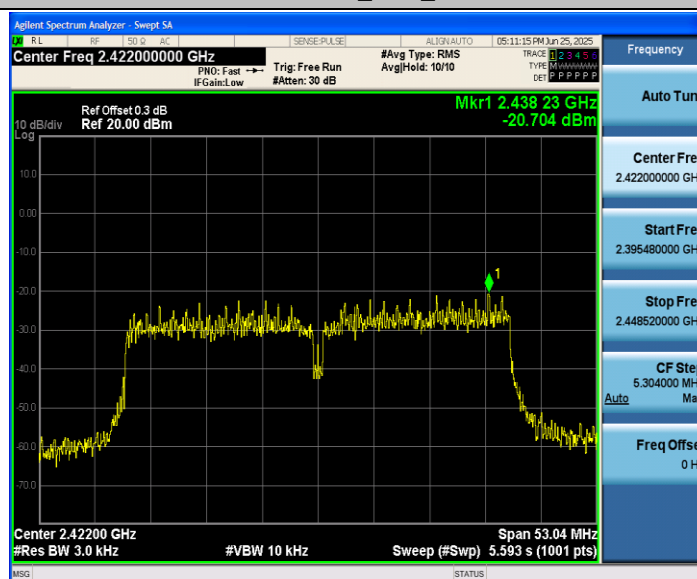
11N20SISO_Ant1_2437



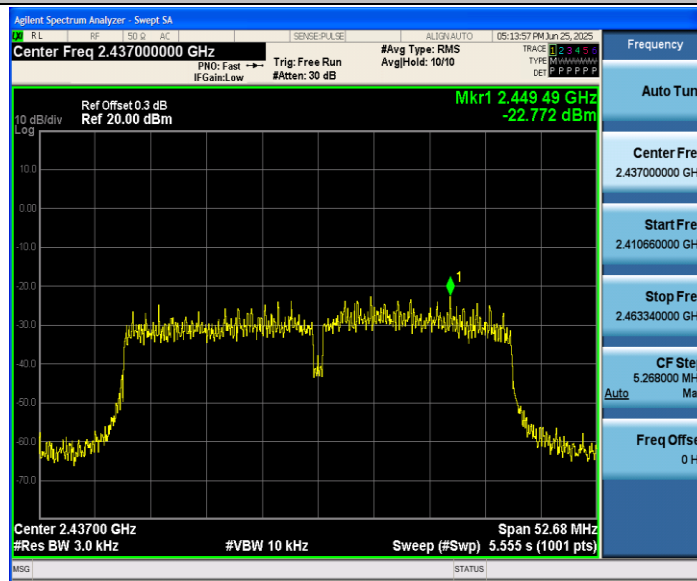
11N20SISO_Ant1_2462



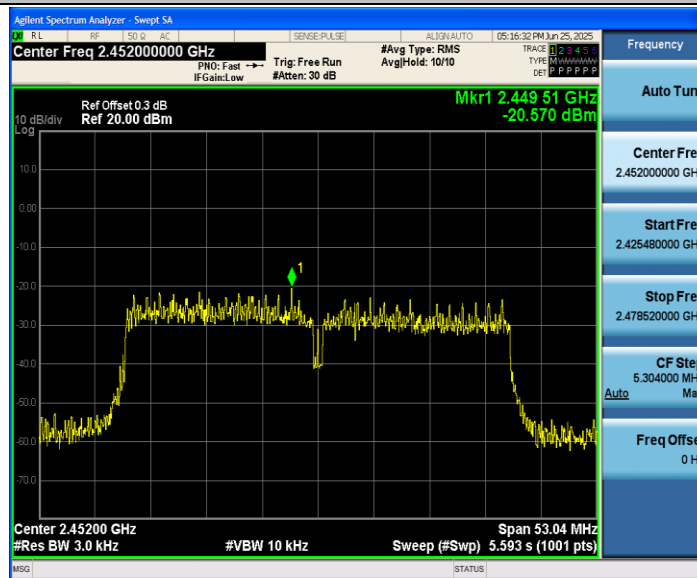
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



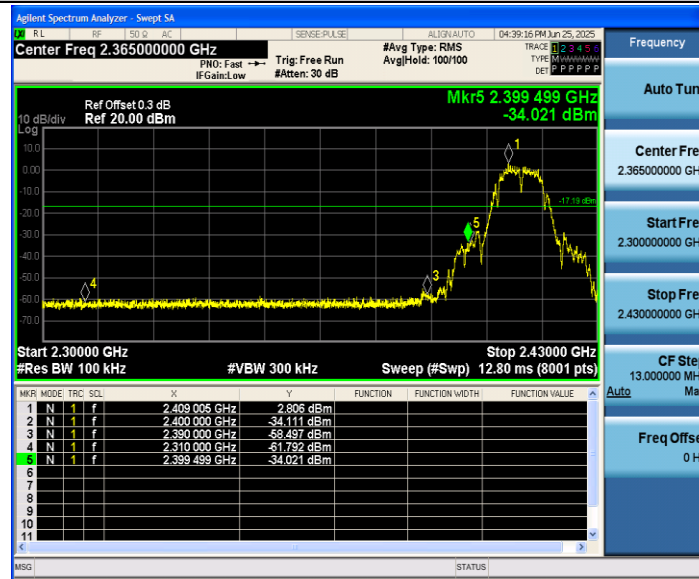
Appendix E: Band edge measurements

Test Result

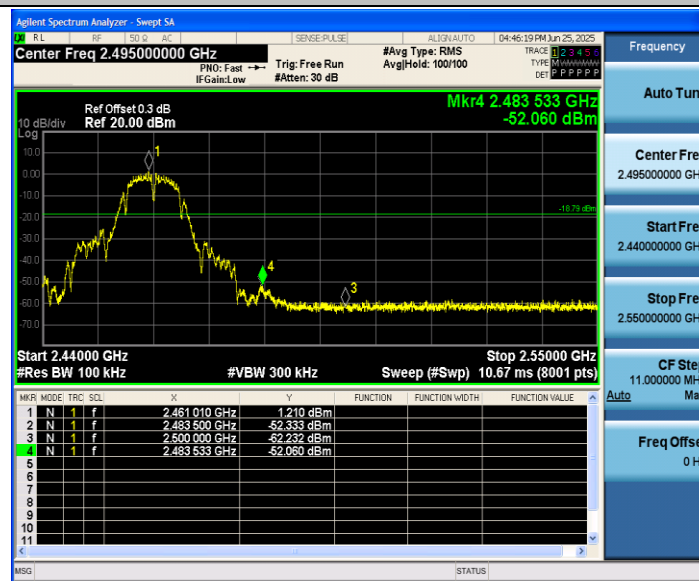
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.81	-34.02	≤-17.19	PASS
		High	2462	1.21	-52.06	≤-18.79	PASS
11G	Ant1	Low	2412	-2.06	-34.5	≤-22.06	PASS
		High	2462	-3.01	-36.05	≤-23.01	PASS
11N20SISO	Ant1	Low	2412	-1.27	-33.53	≤-21.27	PASS
		High	2462	-2.92	-40.99	≤-22.92	PASS
11N40SISO	Ant1	Low	2422	-4.47	-37.18	≤-24.47	PASS
		High	2452	-4.74	-35.37	≤-24.74	PASS

Test Graphs

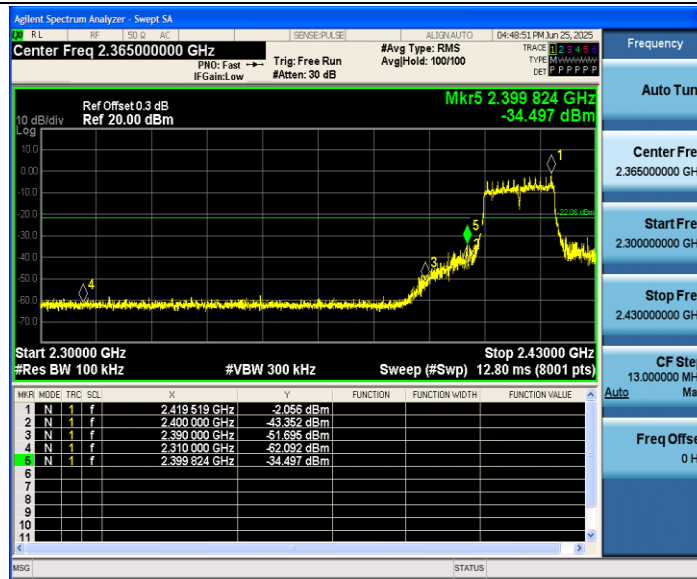
11B_Ant1_Low_2412



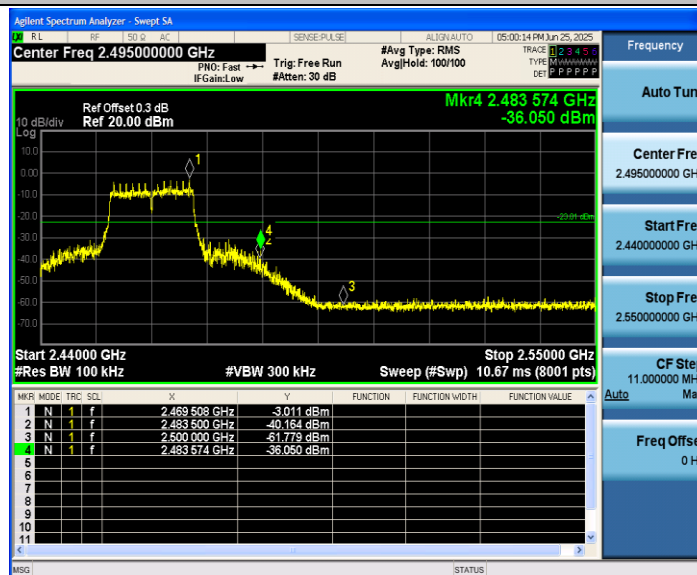
11B_Ant1_High_2462



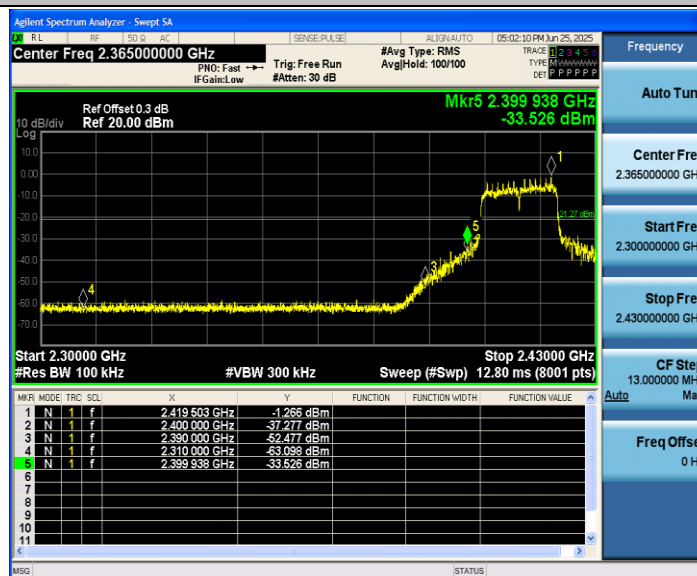
11G_Ant1_Low_2412



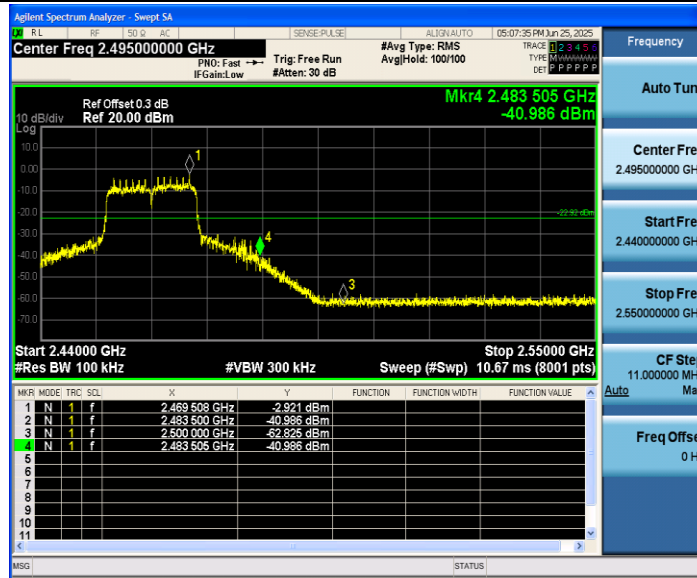
11G_Ant1_High_2462



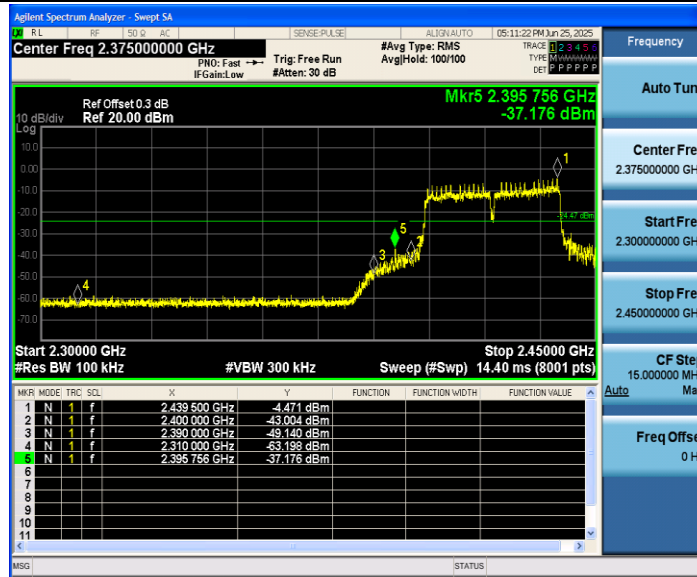
11N20SISO_Ant1_Low_2412



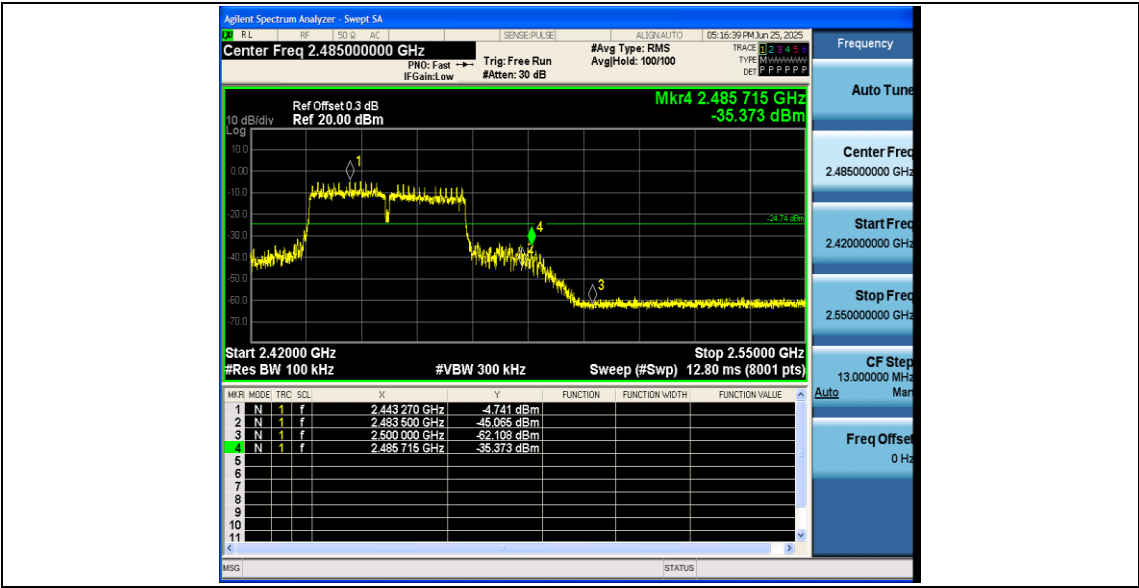
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

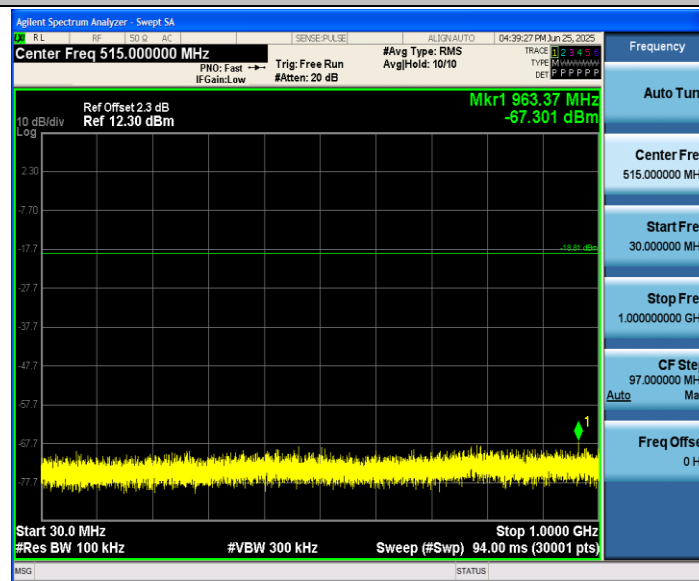
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-67.3	≤-18.81	PASS
			1000~26500	1.19	-37.87	≤-18.81	PASS
		2437	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-68.35	≤-19.72	PASS
			1000~26500	0.28	-37.29	≤-19.72	PASS
		2462	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-48.58	≤-19.97	PASS
			1000~26500	0.03	-31.08	≤-19.97	PASS
11G	Ant1	2412	Reference	-3.41	-3.41	---	PASS
			30~1000	-3.41	-68.41	≤-23.41	PASS
			1000~26500	-3.41	-52.65	≤-23.41	PASS
		2437	Reference	-6.17	-6.17	---	PASS
			30~1000	-6.17	-67.89	≤-26.17	PASS
			1000~26500	-6.17	-50.25	≤-26.17	PASS
		2462	Reference	-3.20	-3.20	---	PASS
			30~1000	-3.20	-68.53	≤-23.2	PASS
			1000~26500	-3.20	-42.47	≤-23.2	PASS
11N20SISO	Ant1	2412	Reference	-1.73	-1.73	---	PASS
			30~1000	-1.73	-66.88	≤-21.73	PASS
			1000~26500	-1.73	-52.07	≤-21.73	PASS
		2437	Reference	-4.54	-4.54	---	PASS
			30~1000	-4.54	-66.87	≤-24.54	PASS
			1000~26500	-4.54	-50.6	≤-24.54	PASS
		2462	Reference	-3.64	-3.64	---	PASS
			30~1000	-3.64	-66.65	≤-23.64	PASS
			1000~26500	-3.64	-41.94	≤-23.64	PASS
11N40SISO	Ant1	2422	Reference	-4.90	-4.90	---	PASS
			30~1000	-4.90	-67.65	≤-24.9	PASS
			1000~26500	-4.90	-49.78	≤-24.9	PASS
		2437	Reference	-7.13	-7.13	---	PASS
			30~1000	-7.13	-67.9	≤-27.13	PASS
			1000~26500	-7.13	-51.94	≤-27.13	PASS
		2452	Reference	-4.93	-4.93	---	PASS
			30~1000	-4.93	-68.33	≤-24.93	PASS
			1000~26500	-4.93	-48.12	≤-24.93	PASS

Test Graphs

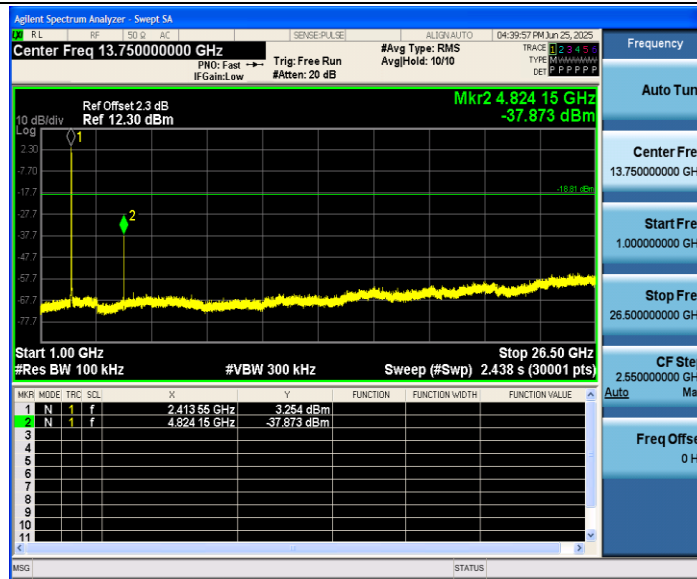
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



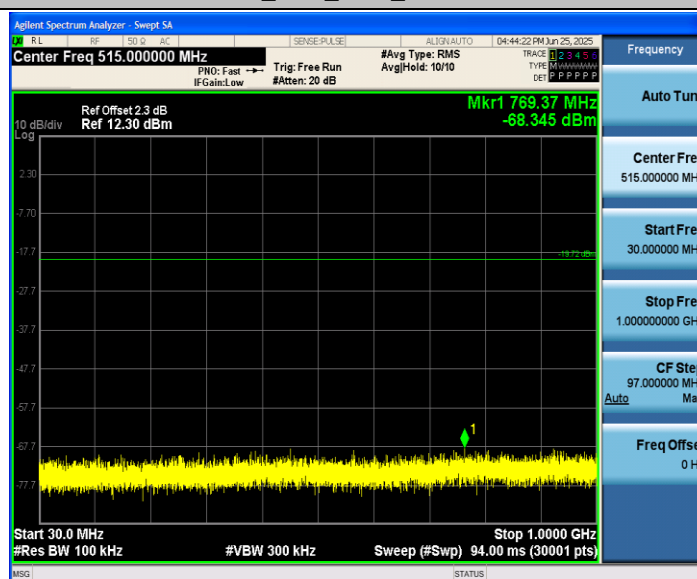
11B_Ant1_2412_1000~26500



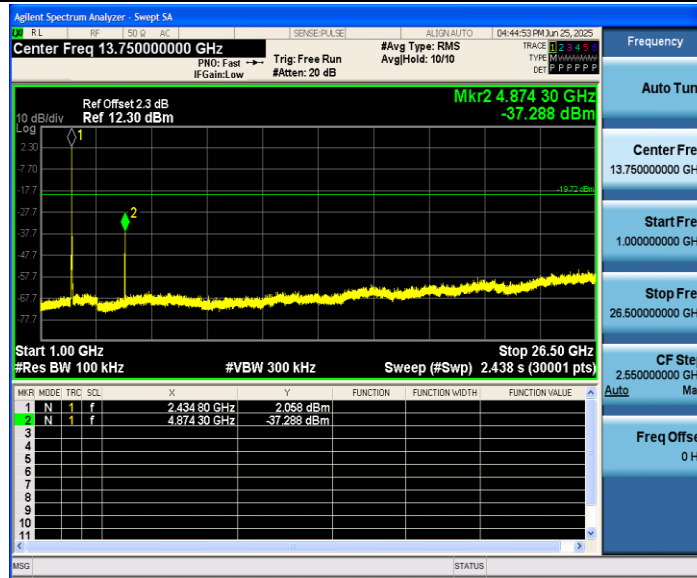
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



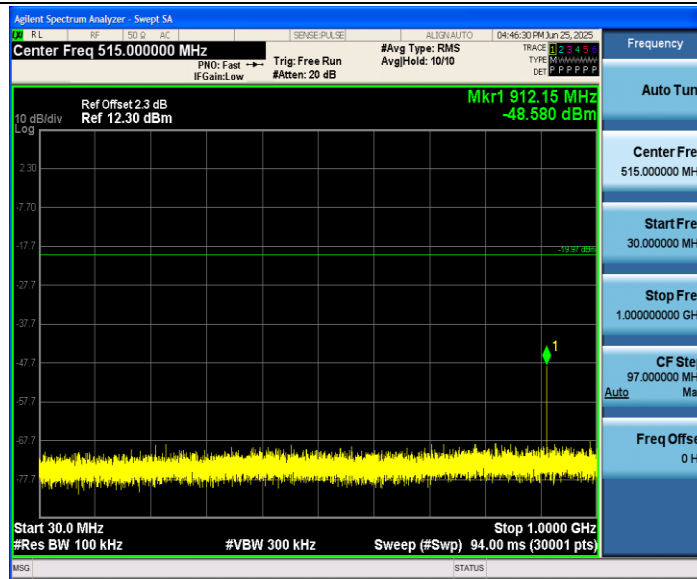
11B_Ant1_2437_1000~26500



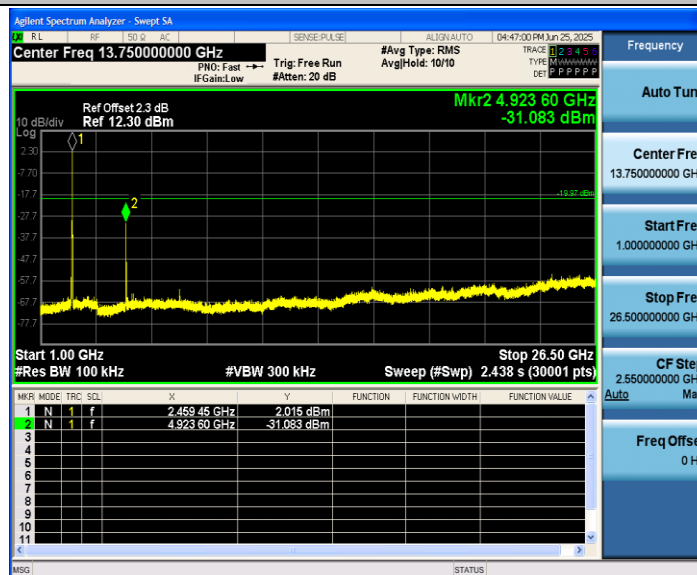
11B_Ant1_2462_0~Reference



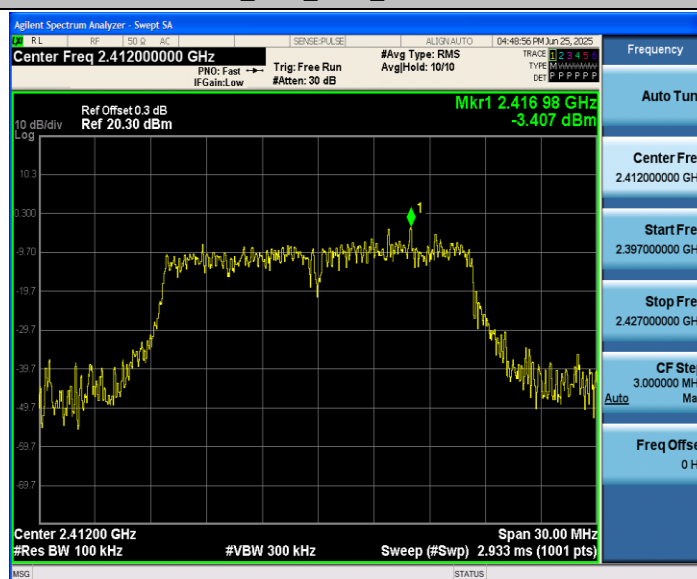
11B_Ant1_2462_30~1000



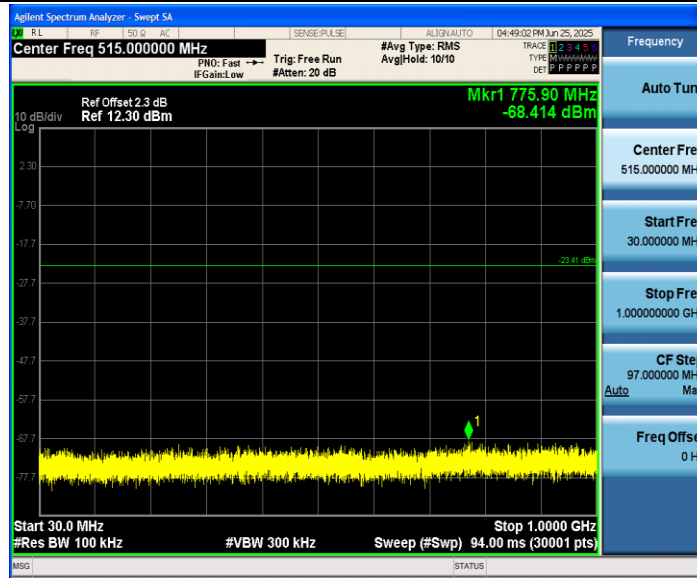
11B_Ant1_2462_1000~26500



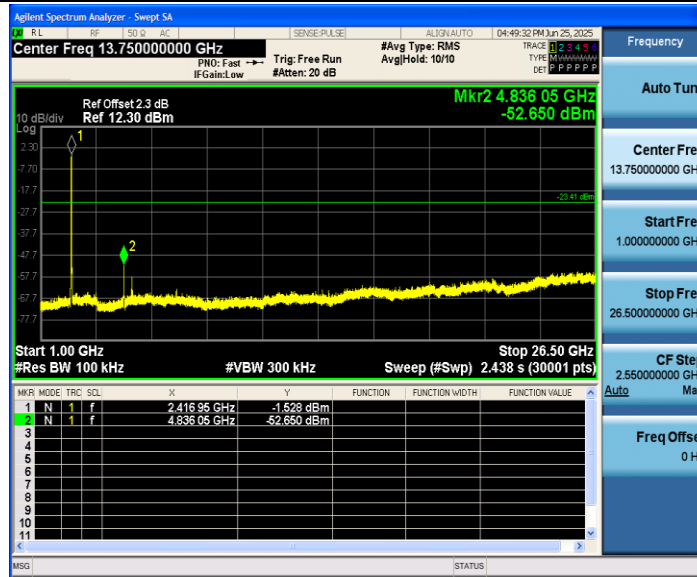
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



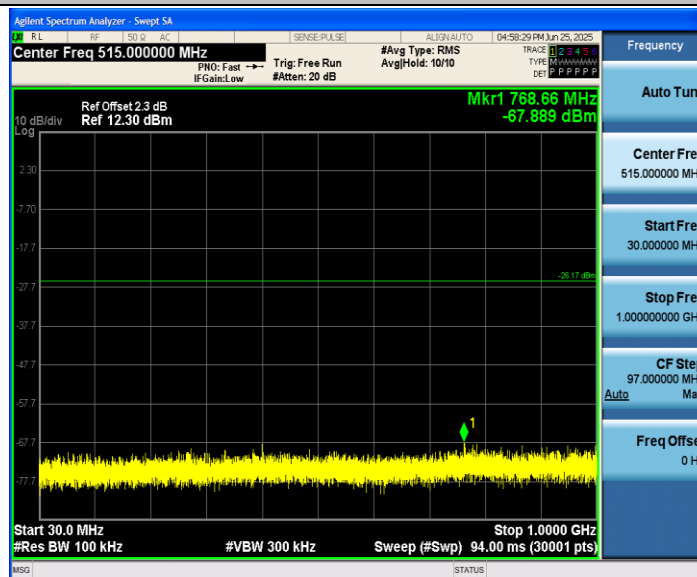
11G_Ant1_2412_1000~26500



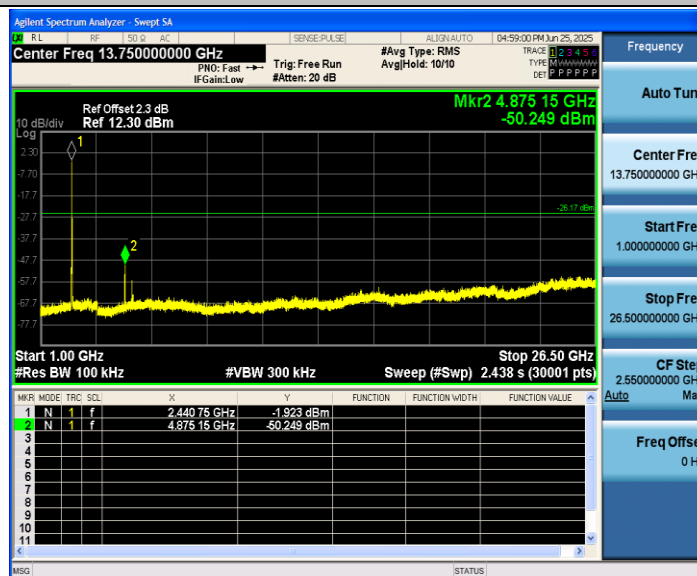
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



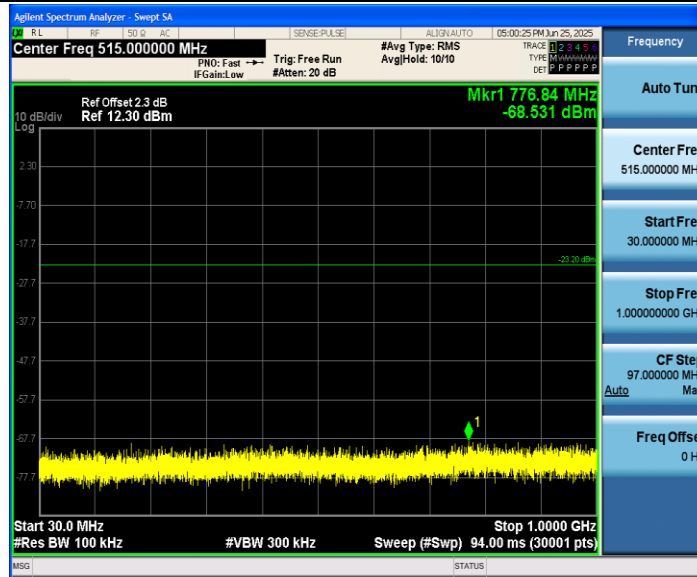
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500