

FCC Appendix RF Test Data

FCC ID : 2BKIT-SC-A80W

Company : Shenzhen Sanchong Technology Co., Ltd

EUT : Pet feeder

Model Number : SC-A80W

Report No. : CTA25071604901

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	8.560	2408.480	2417.040	0.5	PASS
		2437	9.560	2432.000	2441.560	0.5	PASS
		2462	9.040	2458.000	2467.040	0.5	PASS
11G	Ant1	2412	13.200	2406.960	2420.160	0.5	PASS
		2437	15.720	2428.840	2444.560	0.5	PASS
		2462	15.440	2454.480	2469.920	0.5	PASS
11N20SISO	Ant1	2412	13.520	2406.960	2420.480	0.5	PASS
		2437	16.200	2428.360	2444.560	0.5	PASS
		2462	15.880	2454.480	2470.360	0.5	PASS
11N40SISO	Ant1	2422	23.840	2410.720	2434.560	0.5	PASS
		2437	35.280	2419.240	2454.520	0.5	PASS
		2452	35.600	2434.480	2470.080	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



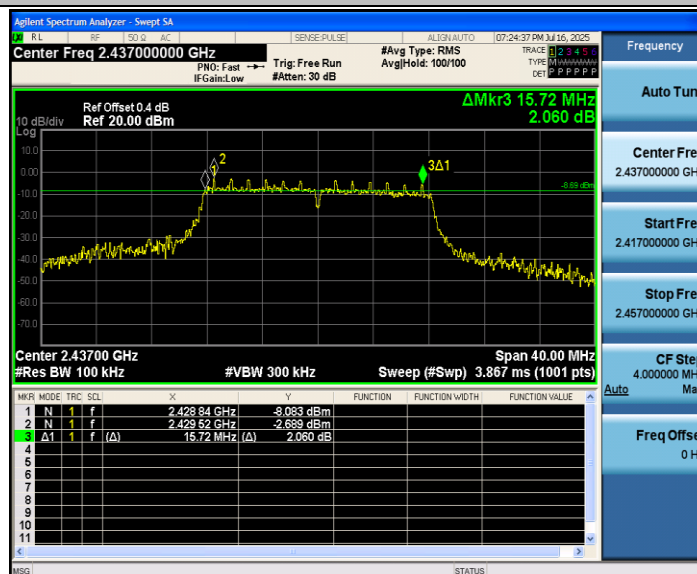
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



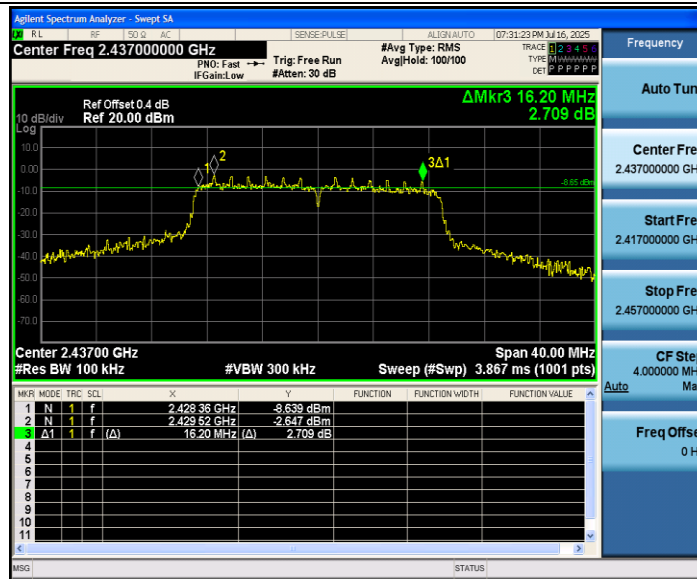
11G_Ant1_2462



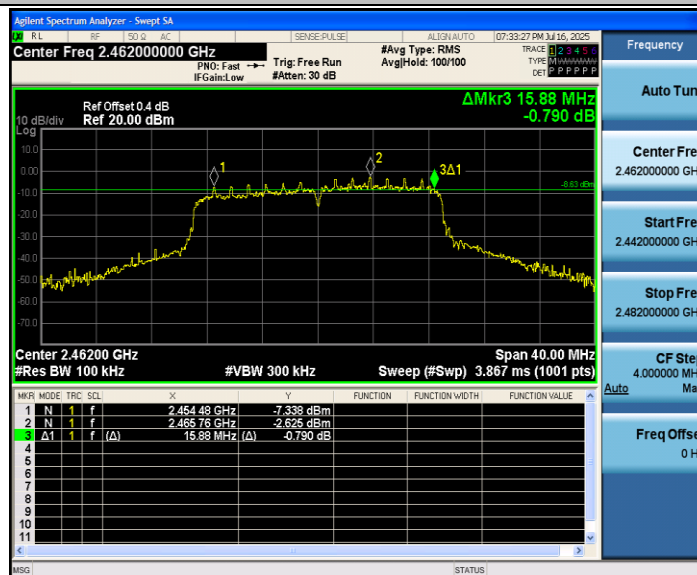
11N20SISO_Ant1_2412



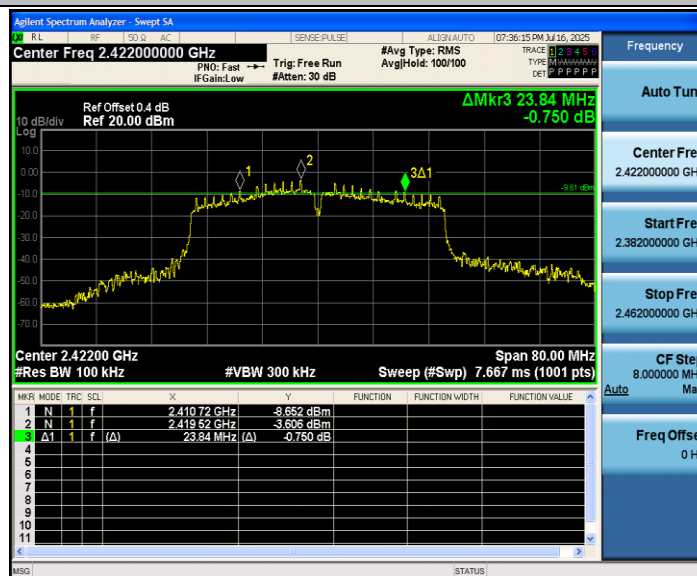
11N20SISO_Ant1_2437



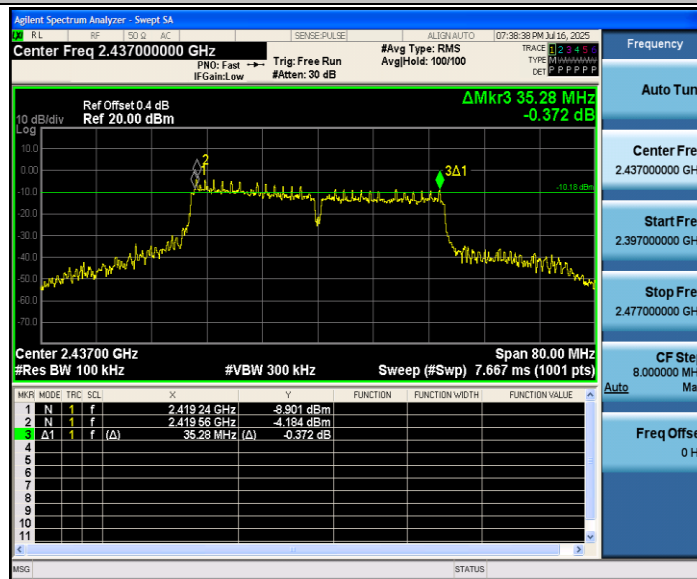
11N20SISO_Ant1_2462



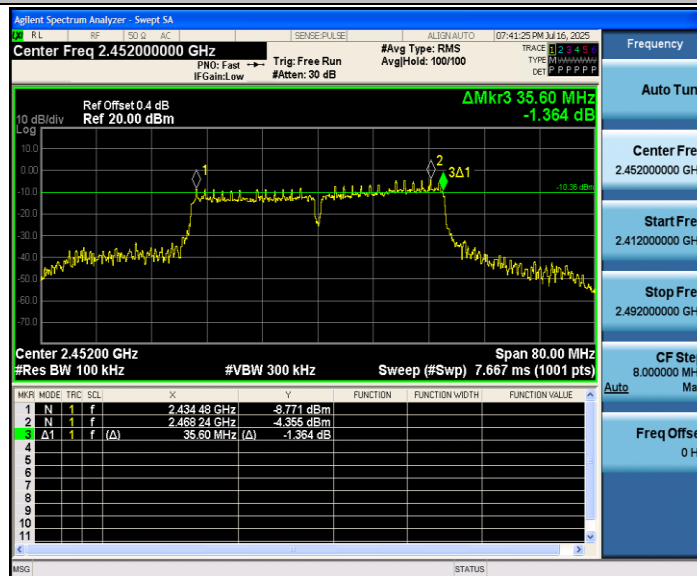
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix B: Occupied Channel Bandwidth

Test Result

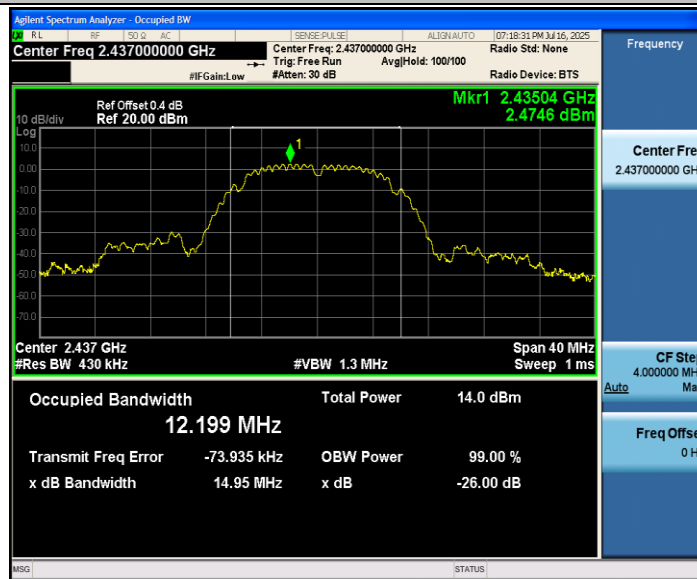
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.988	2406.8477	2418.8357	---	---
		2437	12.199	2430.8266	2443.0256	---	---
		2462	11.624	2456.5228	2468.1468	---	---
11G	Ant1	2412	16.698	2404.0234	2420.7214	---	---
		2437	16.822	2428.4780	2445.3000	---	---
		2462	16.560	2453.9041	2470.4641	---	---
11N20SISO	Ant1	2412	17.682	2403.5200	2421.2020	---	---
		2437	17.885	2427.9175	2445.8025	---	---
		2462	17.518	2453.3997	2470.9177	---	---
11N40SISO	Ant1	2422	35.297	2404.5713	2439.8683	---	---
		2437	36.582	2418.5893	2455.1713	---	---
		2452	36.544	2433.9684	2470.5124	---	---

Test Graphs

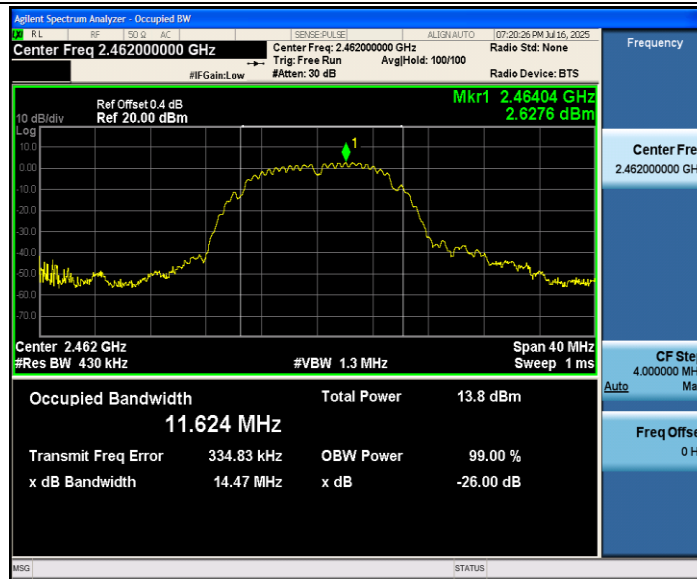
11B_Ant1_2412



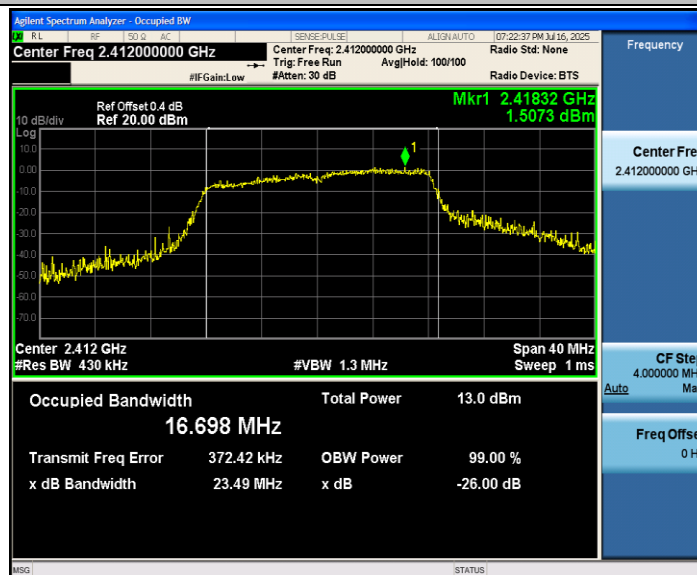
11B_Ant1_2437



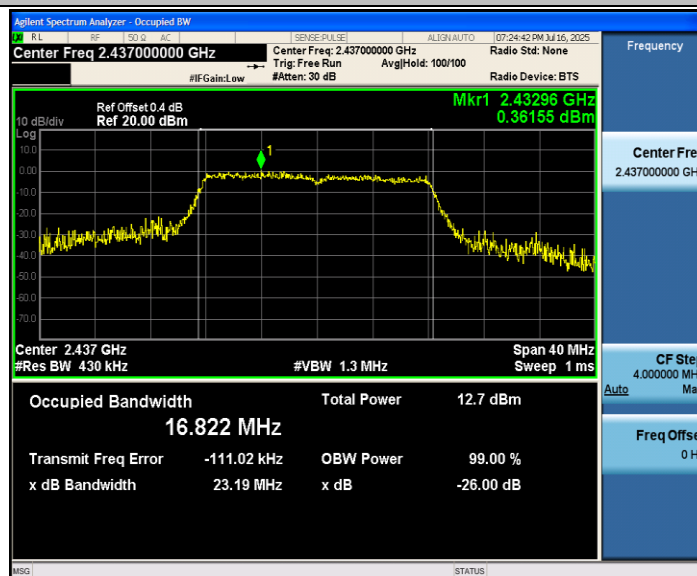
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



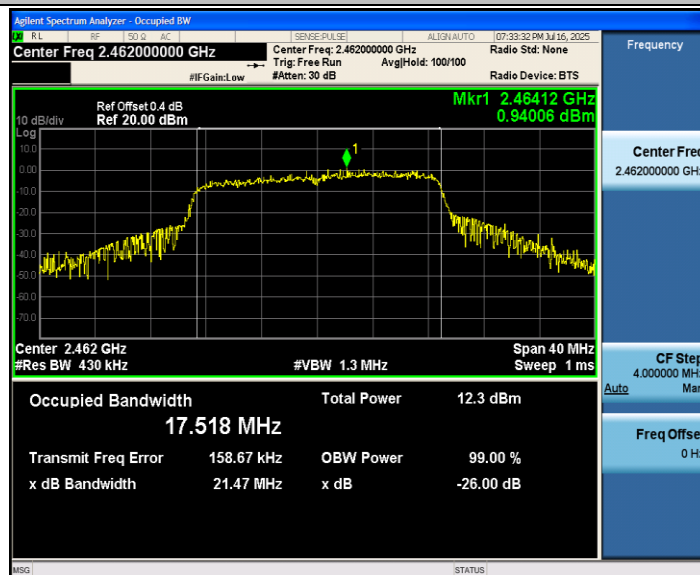
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



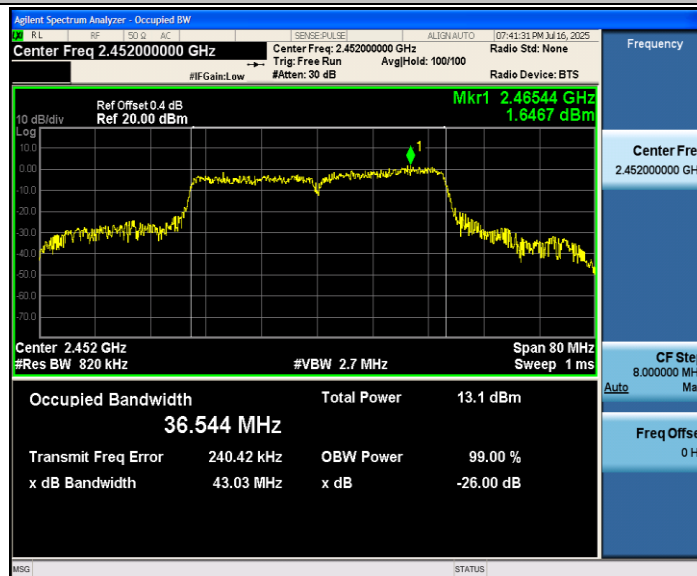
11N40SISO_Ant1_2422



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	14.57	≤30.00	PASS
		2437	13.87	≤30.00	PASS
		2462	13.58	≤30.00	PASS
11G	Ant1	2412	13.44	≤30.00	PASS
		2437	13.24	≤30.00	PASS
		2462	12.89	≤30.00	PASS
11N20SISO	Ant1	2412	13.53	≤30.00	PASS
		2437	13.45	≤30.00	PASS
		2462	12.93	≤30.00	PASS
11N40SISO	Ant1	2422	12.47	≤30.00	PASS
		2437	13.25	≤30.00	PASS
		2452	13.18	≤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	-10.75	≤8.00	PASS
		2437	-12.26	≤8.00	PASS
		2462	-11.27	≤8.00	PASS
11G	Ant1	2412	-17.13	≤8.00	PASS
		2437	-18.34	≤8.00	PASS
		2462	-18.24	≤8.00	PASS
11N20SISO	Ant1	2412	-16.28	≤8.00	PASS
		2437	-17.77	≤8.00	PASS
		2462	-18.06	≤8.00	PASS
11N40SISO	Ant1	2422	-18.67	≤8.00	PASS
		2437	-19.07	≤8.00	PASS
		2452	-19.06	≤8.00	PASS

Test Graphs

11B_Ant1_2412



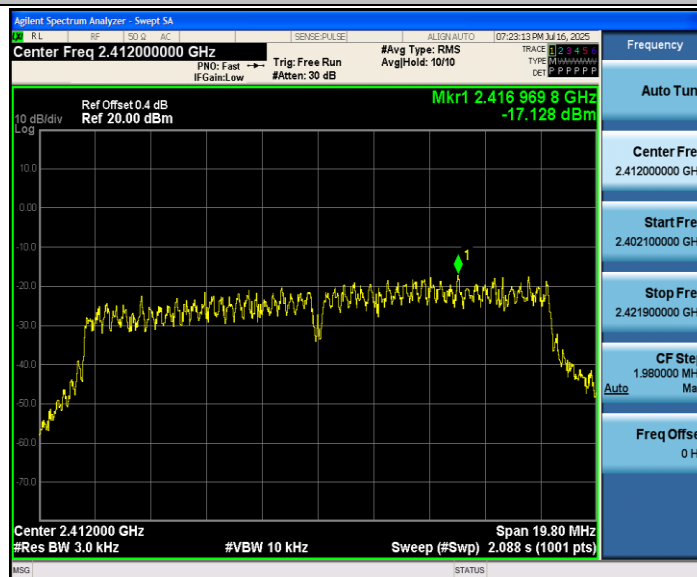
11B_Ant1_2437



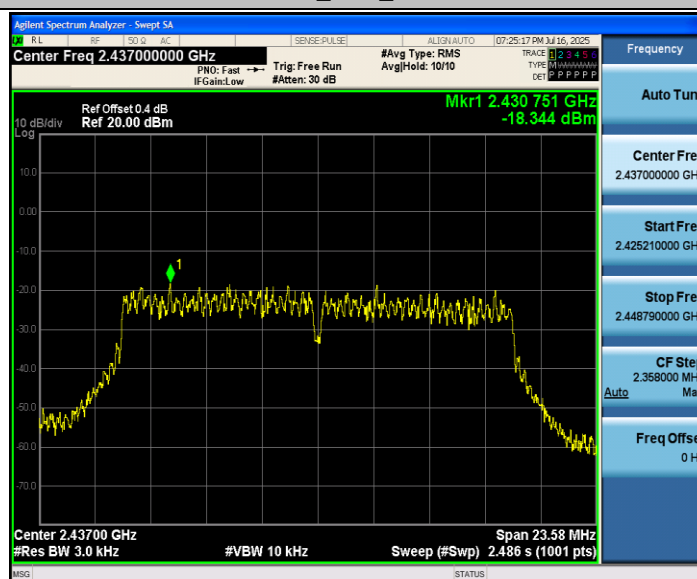
11B_Ant1_2462



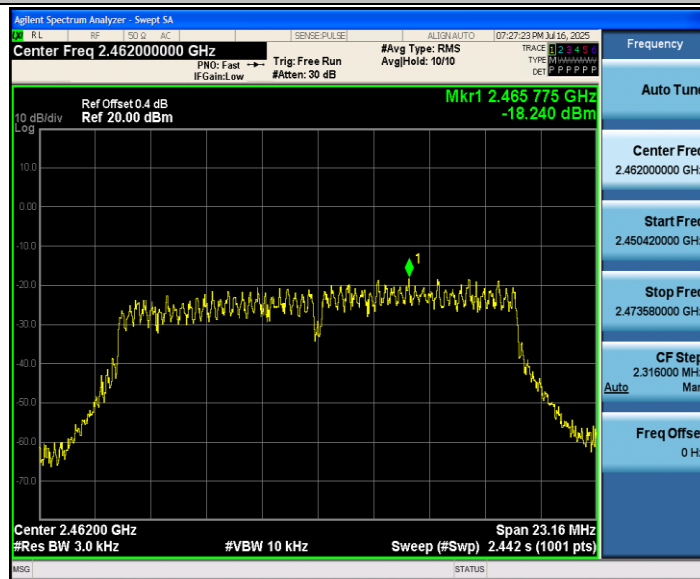
11G_Ant1_2412



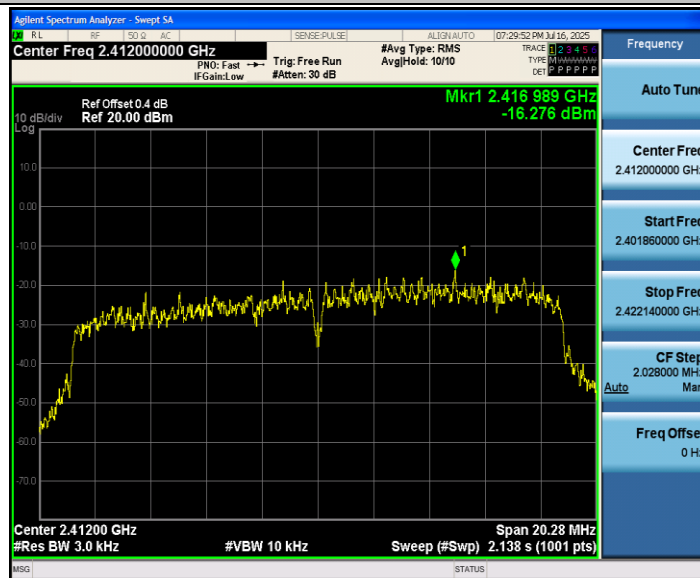
11G_Ant1_2437



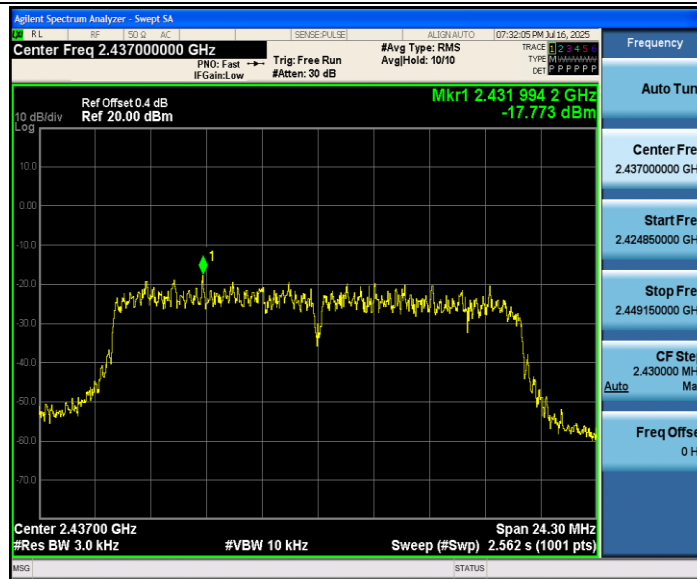
11G_Ant1_2462



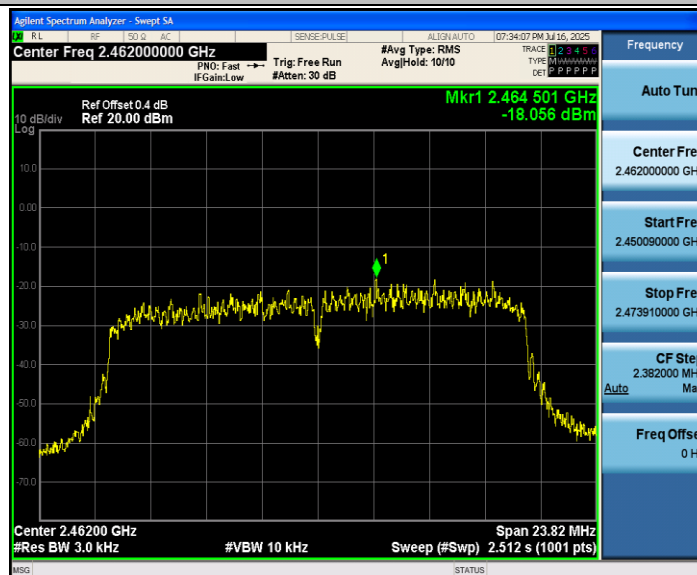
11N20SISO_Ant1_2412



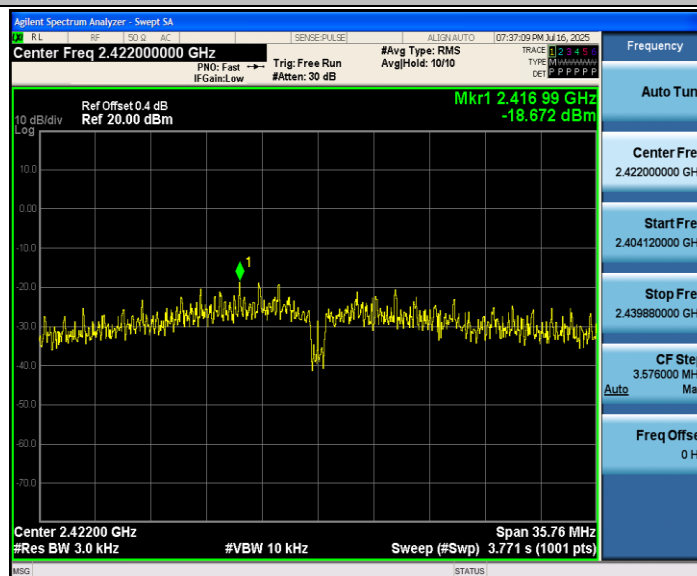
11N20SISO_Ant1_2437



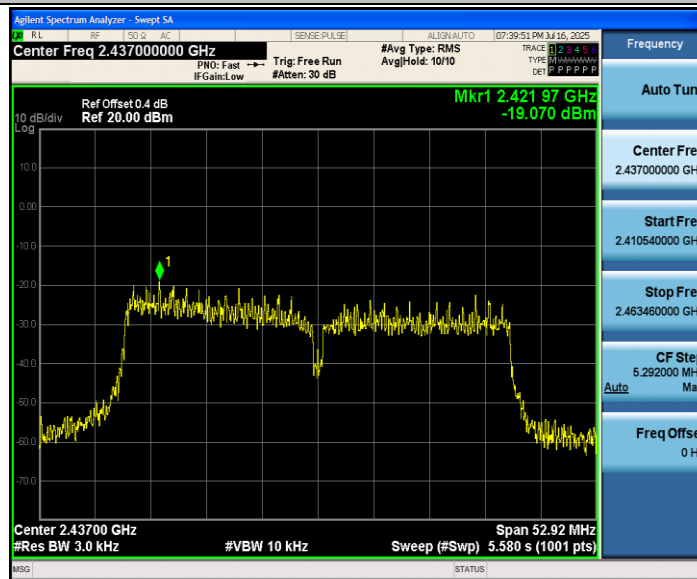
11N20SISO_Ant1_2462



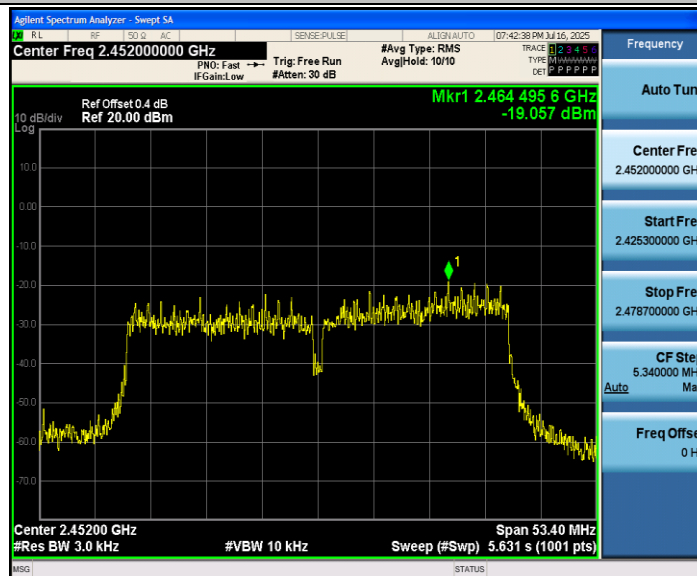
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



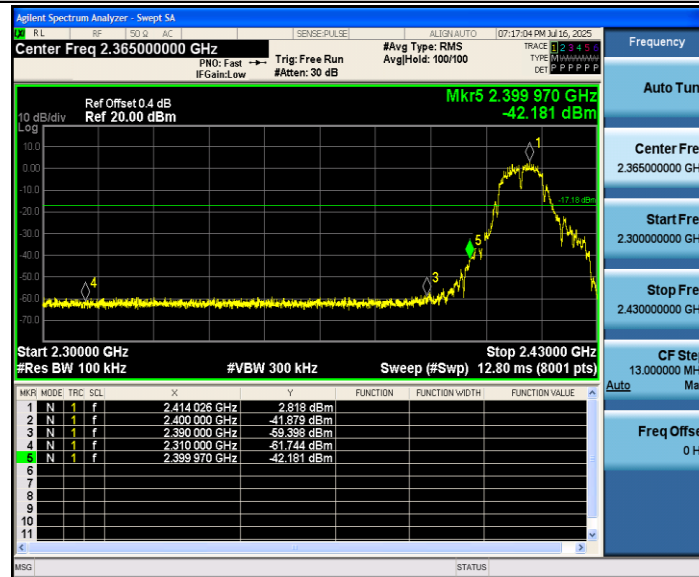
Appendix E: Band edge measurements

Test Result

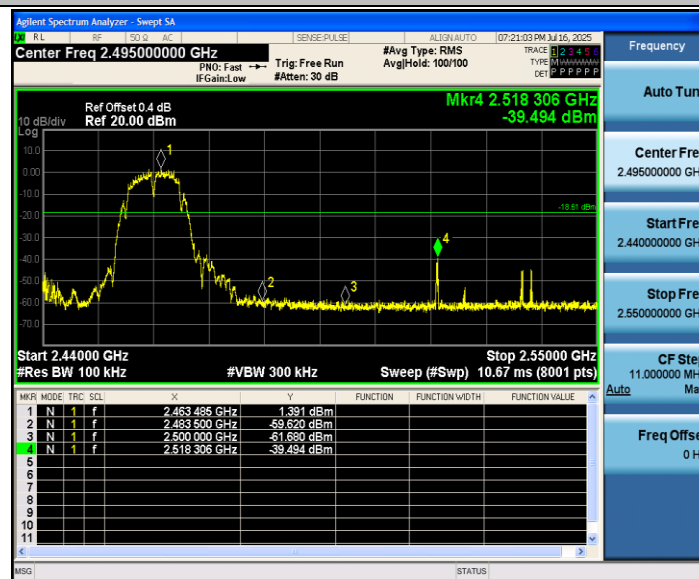
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.82	-42.18	≤-17.18	PASS
		High	2462	1.39	-39.49	≤-18.61	PASS
11G	Ant1	Low	2412	-1.38	-42.93	≤-21.38	PASS
		High	2462	-2.64	-54.44	≤-22.64	PASS
11N20SISO	Ant1	Low	2412	-1.29	-39.3	≤-21.29	PASS
		High	2462	-2.63	-48.69	≤-22.63	PASS
11N40SISO	Ant1	Low	2422	-3.65	-43.68	≤-23.65	PASS
		High	2452	-4.38	-42.09	≤-24.38	PASS

Test Graphs

11B_Ant1_Low_2412



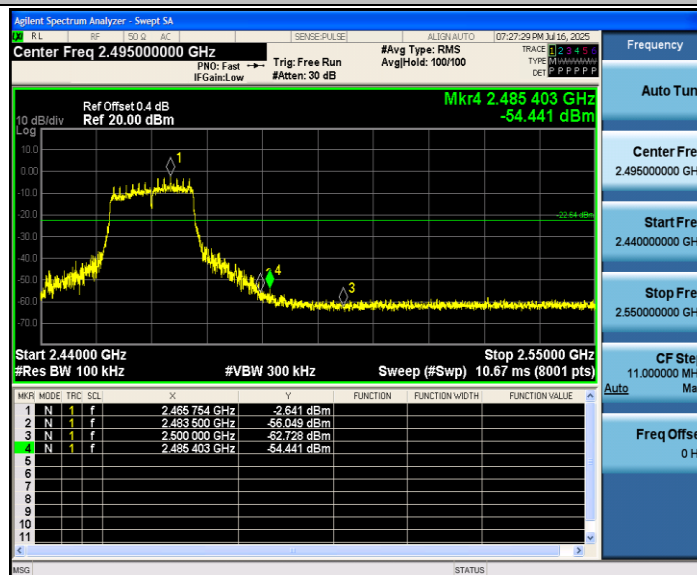
11B_Ant1_High_2462



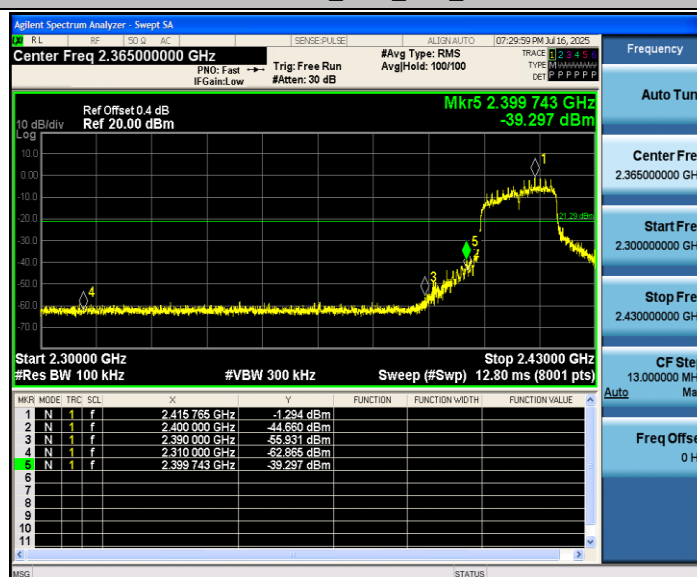
11G_Ant1_Low_2412



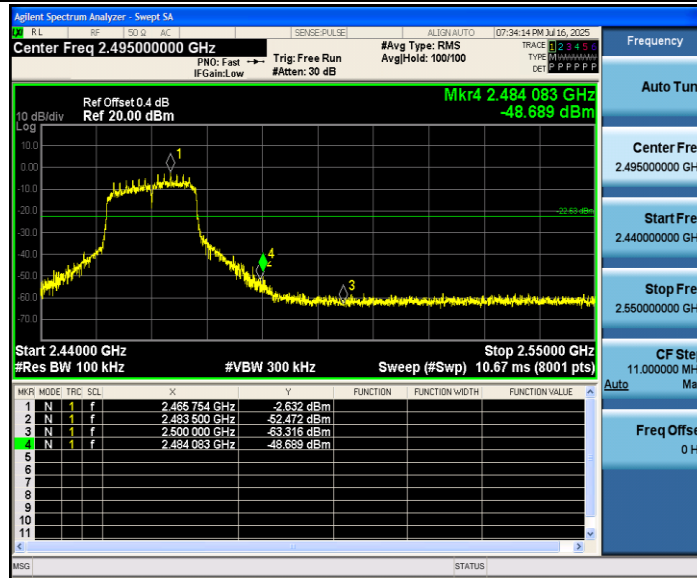
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



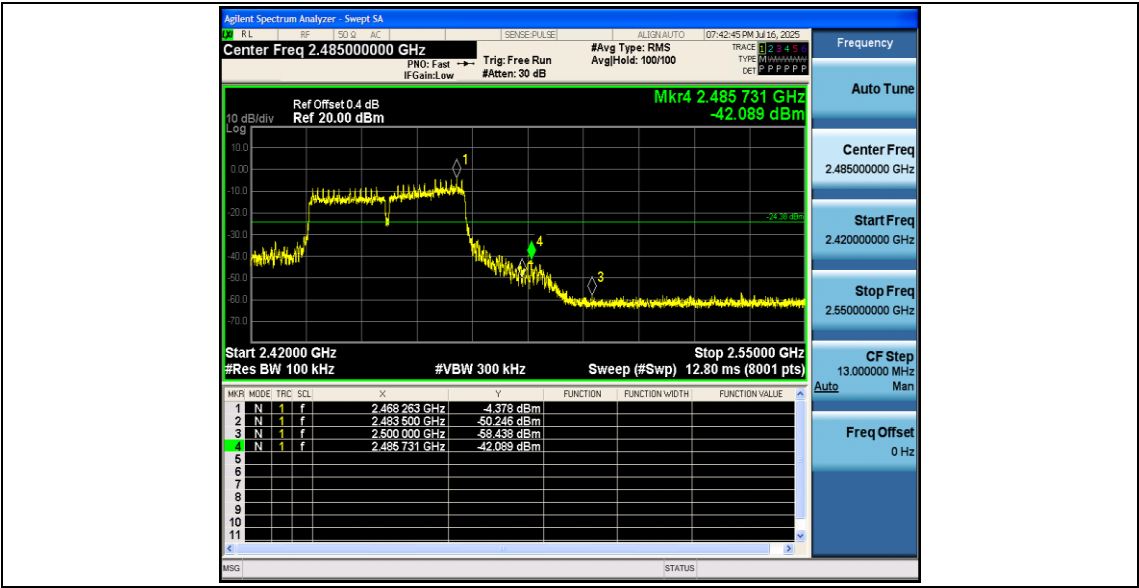
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

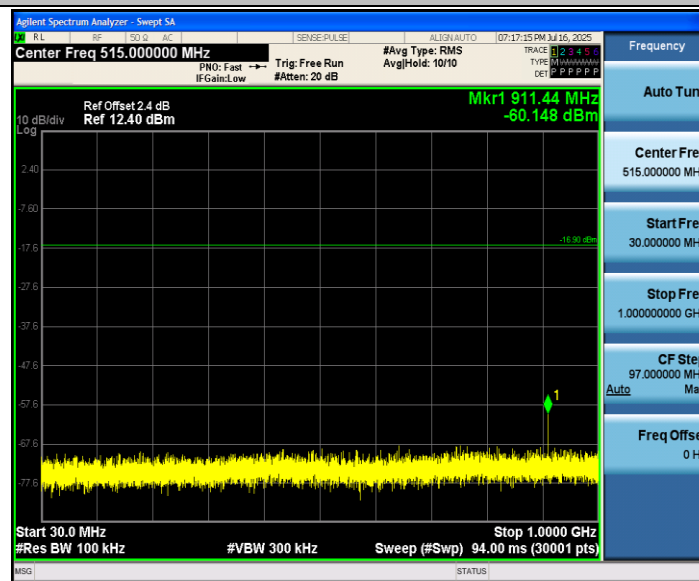
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.10	3.10	---	PASS
			30~1000	3.10	-60.15	≤-16.9	PASS
			1000~26500	3.10	-41.33	≤-16.9	PASS
		2437	Reference	0.91	0.91	---	PASS
			30~1000	0.91	-67.87	≤-19.09	PASS
			1000~26500	0.91	-39.91	≤-19.09	PASS
		2462	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-67.82	≤-19.38	PASS
			1000~26500	0.62	-44.93	≤-19.38	PASS
11G	Ant1	2412	Reference	-1.36	-1.36	---	PASS
			30~1000	-1.36	-67.77	≤-21.36	PASS
			1000~26500	-1.36	-43.58	≤-21.36	PASS
		2437	Reference	-2.95	-2.95	---	PASS
			30~1000	-2.95	-67.53	≤-22.95	PASS
			1000~26500	-2.95	-55.43	≤-22.95	PASS
		2462	Reference	-3.88	-3.88	---	PASS
			30~1000	-3.88	-67.75	≤-23.88	PASS
			1000~26500	-3.88	-54.42	≤-23.88	PASS
11N20SISO	Ant1	2412	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-68.01	≤-21.65	PASS
			1000~26500	-1.65	-51.42	≤-21.65	PASS
		2437	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-68.06	≤-22.84	PASS
			1000~26500	-2.84	-54.1	≤-22.84	PASS
		2462	Reference	-3.17	-3.17	---	PASS
			30~1000	-3.17	-67.38	≤-23.17	PASS
			1000~26500	-3.17	-54.6	≤-23.17	PASS
11N40SISO	Ant1	2422	Reference	-4.37	-4.37	---	PASS
			30~1000	-4.37	-66.79	≤-24.37	PASS
			1000~26500	-4.37	-55.31	≤-24.37	PASS
		2437	Reference	-4.45	-4.45	---	PASS
			30~1000	-4.45	-67.77	≤-24.45	PASS
			1000~26500	-4.45	-50.72	≤-24.45	PASS
		2452	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-67.62	≤-24.71	PASS
			1000~26500	-4.71	-54.88	≤-24.71	PASS

Test Graphs

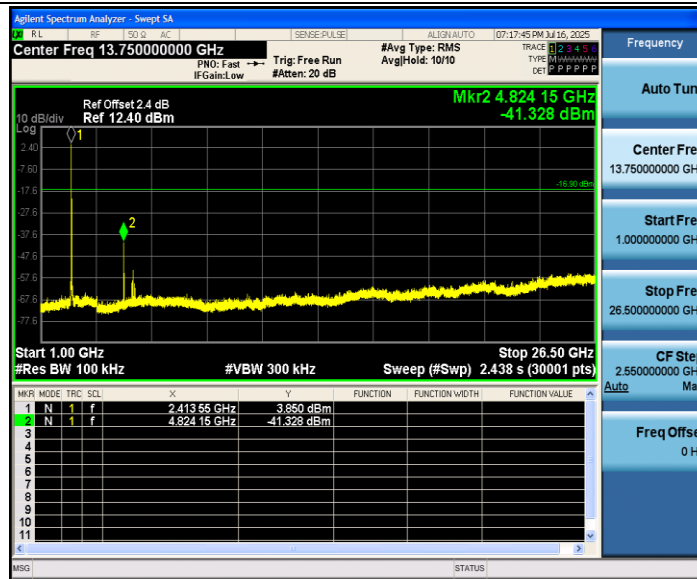
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



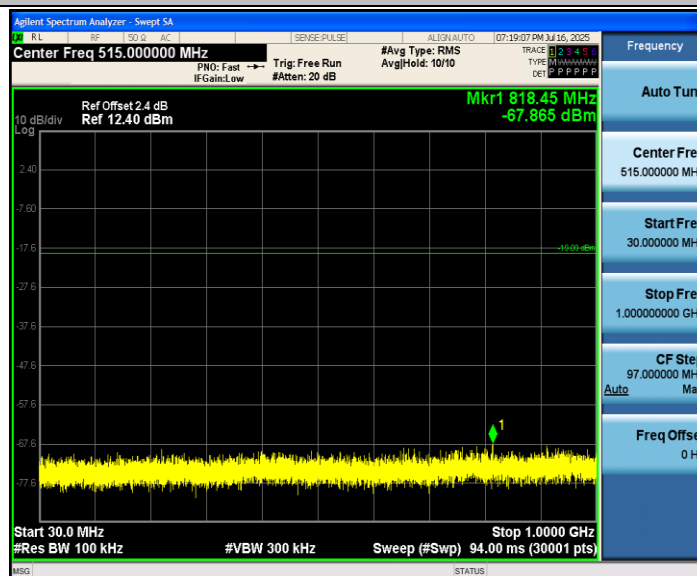
11B_Ant1_2412_1000~26500



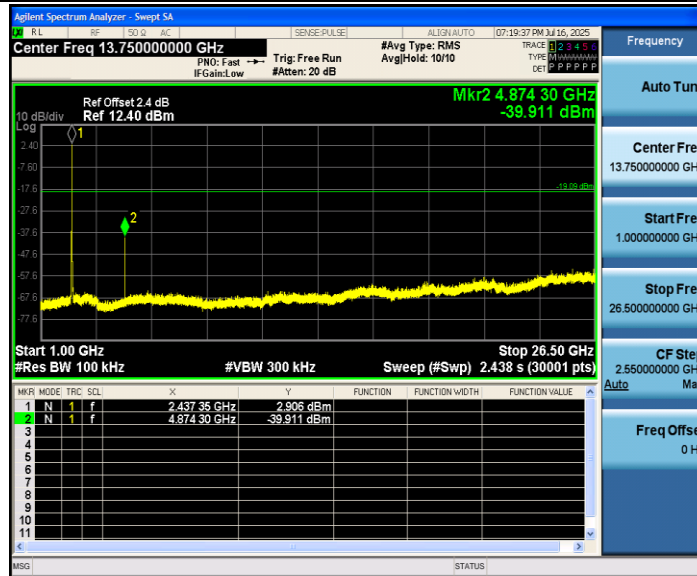
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



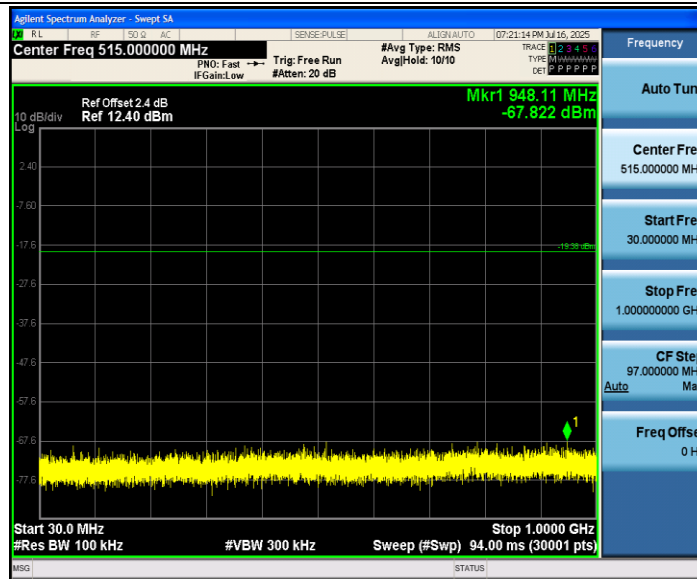
11B_Ant1_2437_1000~26500



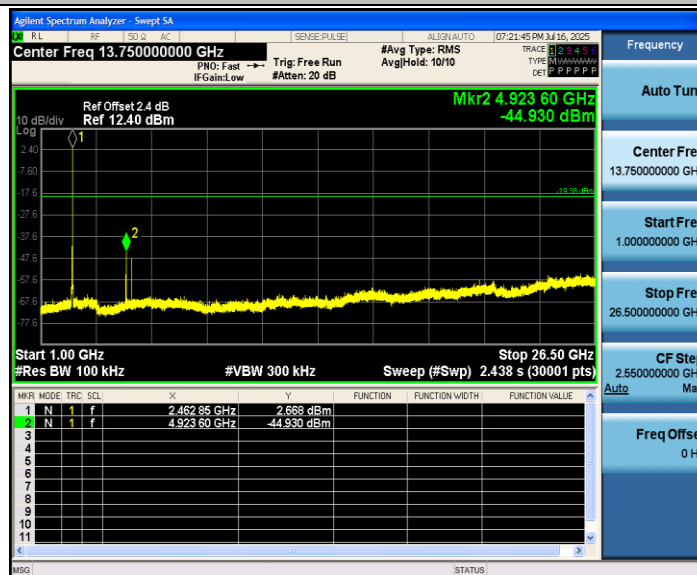
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



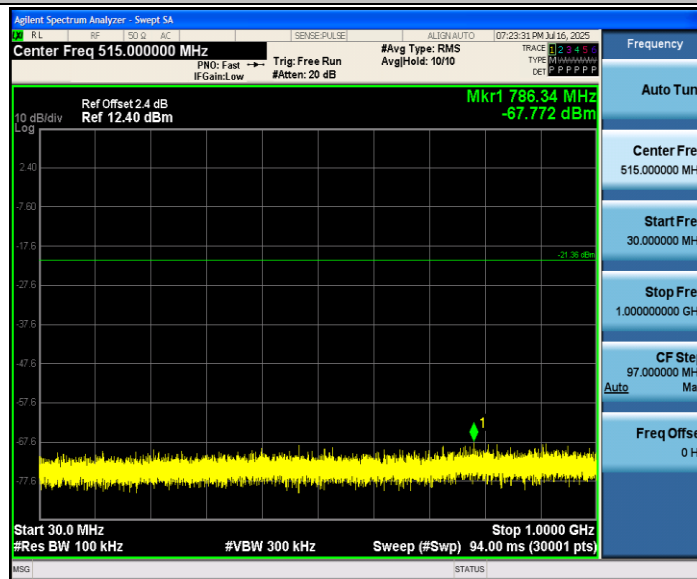
11B_Ant1_2462_1000~26500



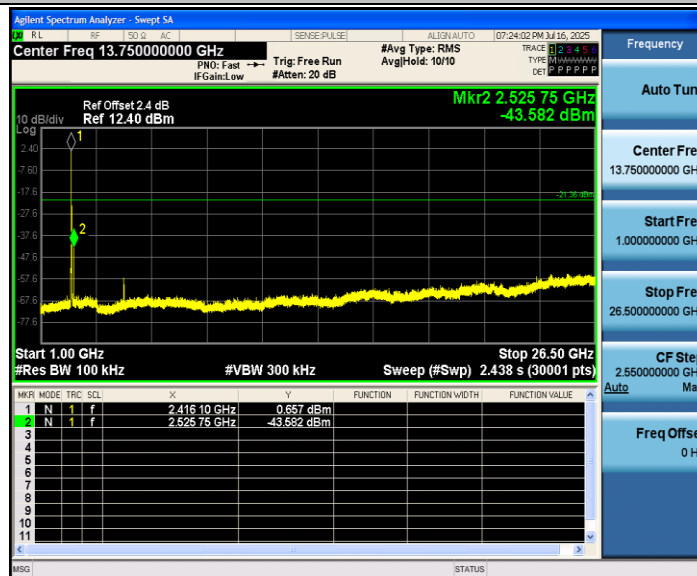
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



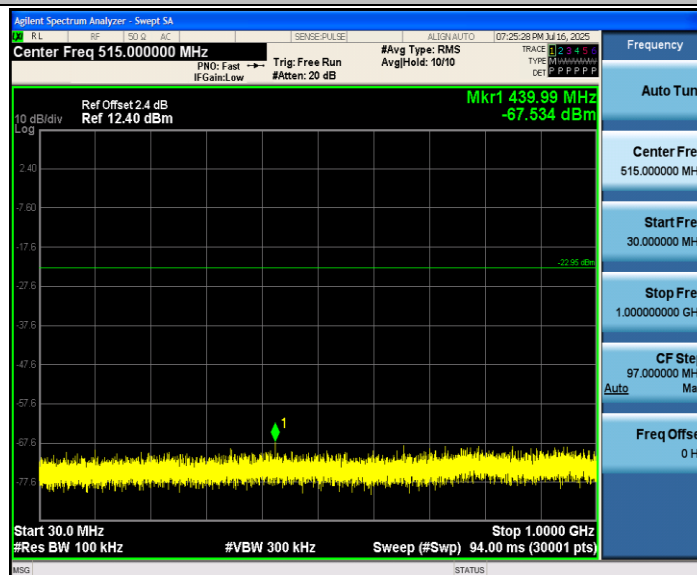
11G_Ant1_2412_1000~26500



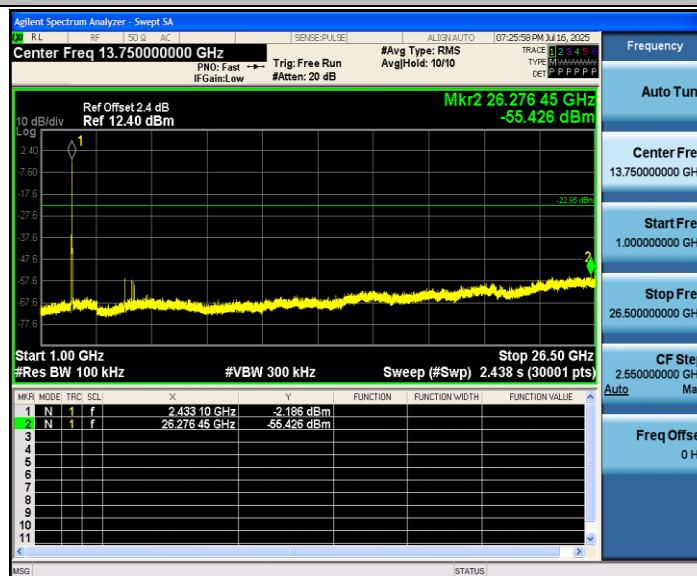
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



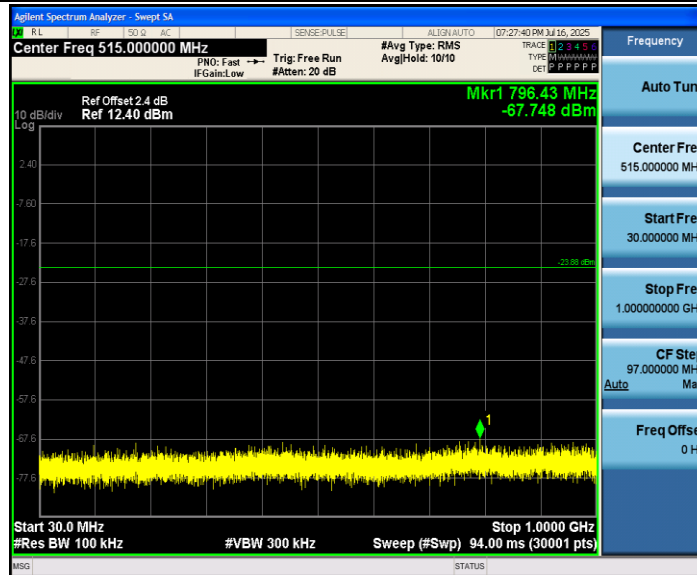
11G_Ant1_2437_1000~26500



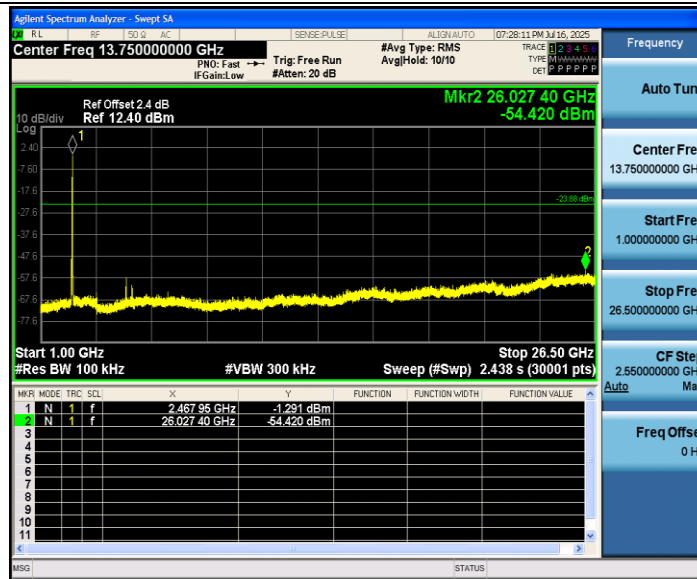
11G_Ant1_2462_0~Reference



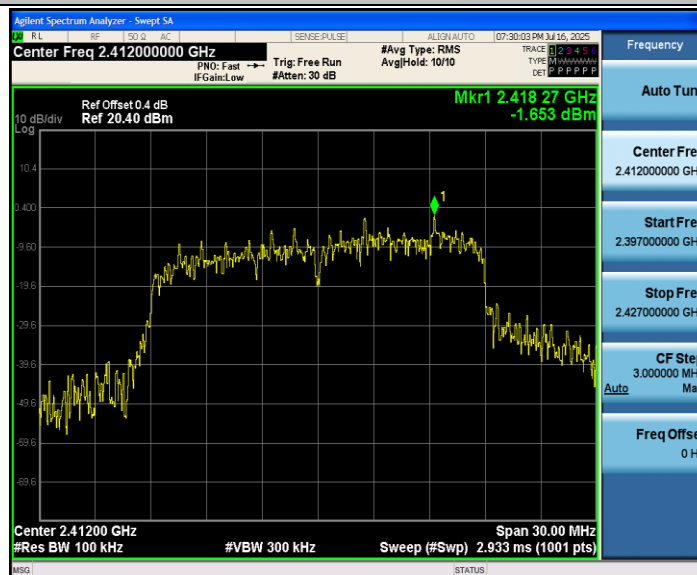
11G_Ant1_2462_30~1000



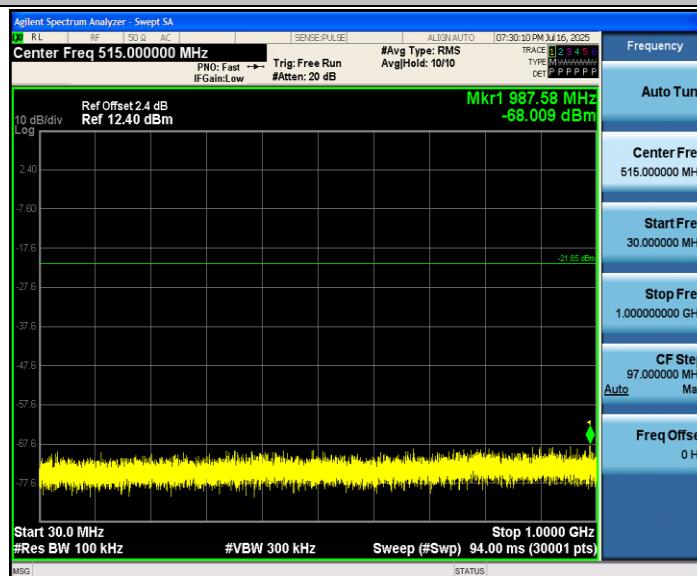
11G_Ant1_2462_1000~26500



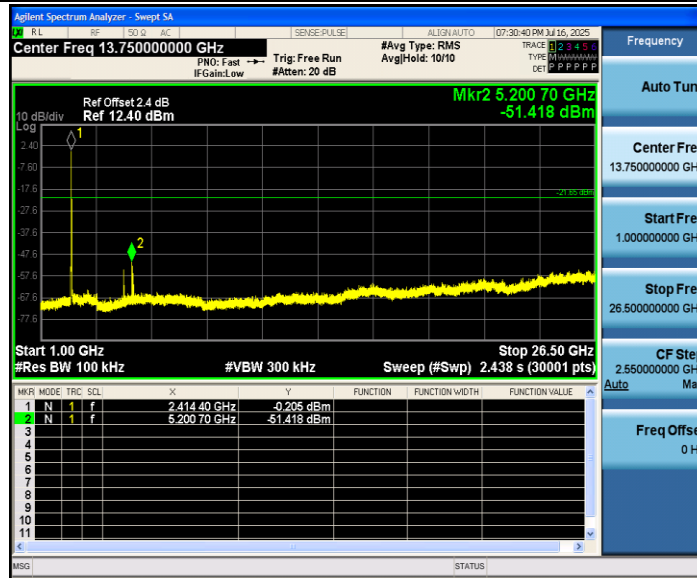
11N20SISO_Ant1_2412_0~Reference



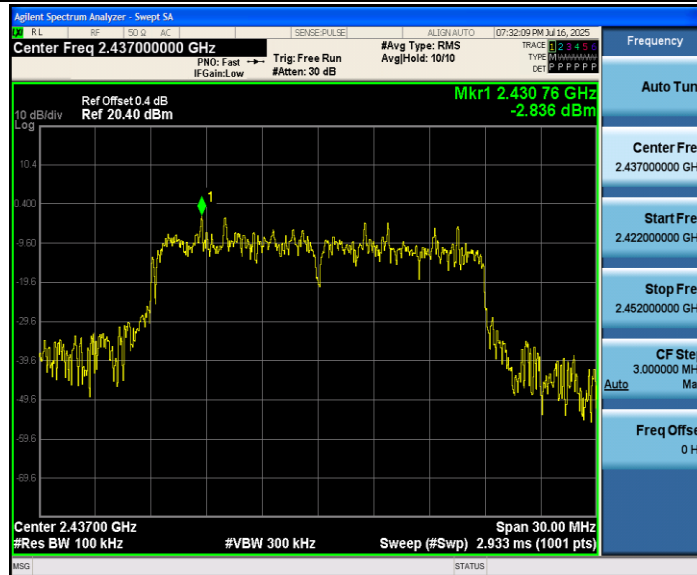
11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000