

Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AZYA-GS100

Company : Senwa Global International, S.A. de C.V.

EUT : Smart glasses

Model Number : GS100

Report No. : CTA25082100102

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	10.560	2407.480	2418.040	0.5	PASS
		2437	9.520	2432.000	2441.520	0.5	PASS
		2462	8.520	2457.480	2466.000	0.5	PASS
11G	Ant1	2412	15.560	2404.000	2419.560	0.5	PASS
		2437	15.760	2429.440	2445.200	0.5	PASS
		2462	15.680	2453.840	2469.520	0.5	PASS
11N20SISO	Ant1	2412	15.760	2403.800	2419.560	0.5	PASS
		2437	16.320	2429.440	2445.760	0.5	PASS
		2462	16.040	2453.520	2469.560	0.5	PASS

Test Graphs

11B_Ant1_2412



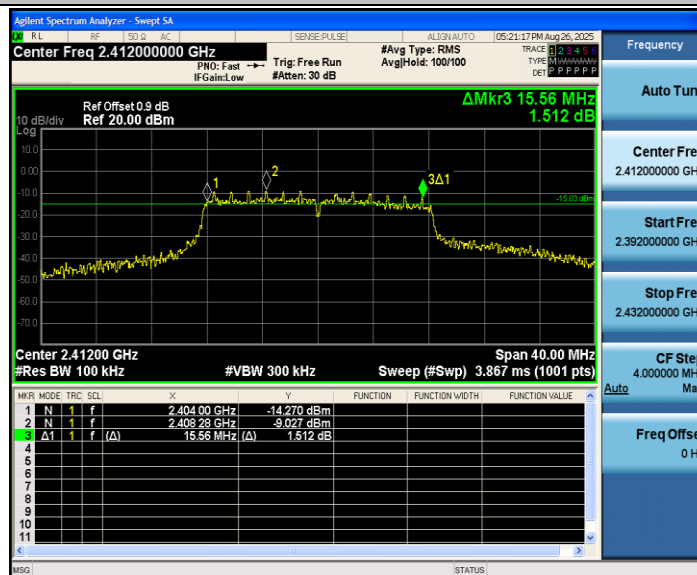
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



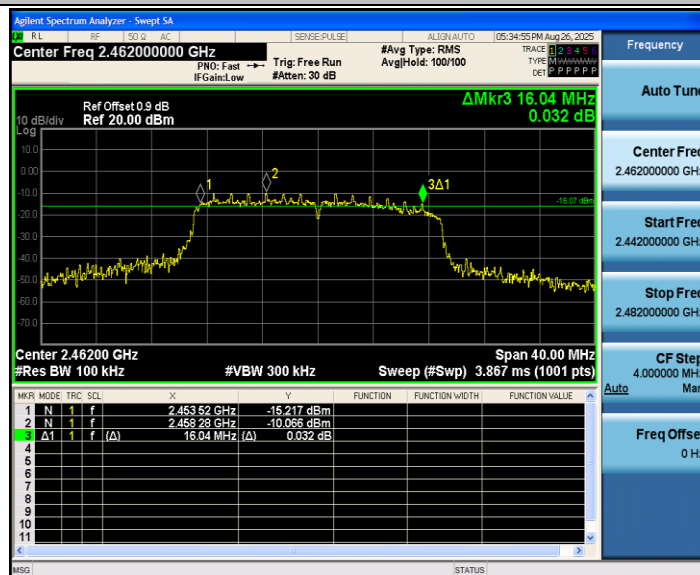
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	19.430	2405.4863	2424.9163	---	---
		2437	12.630	2430.4568	2443.0868	---	---
		2462	11.842	2456.0421	2467.8841	---	---
11G	Ant1	2412	17.377	2403.5349	2420.9119	---	---
		2437	16.746	2428.8217	2445.5677	---	---
		2462	16.543	2453.5989	2470.1419	---	---
11N20SISO	Ant1	2412	18.105	2403.1293	2421.2343	---	---
		2437	17.693	2428.3350	2446.0280	---	---
		2462	17.559	2453.0681	2470.6271	---	---

Test Graphs

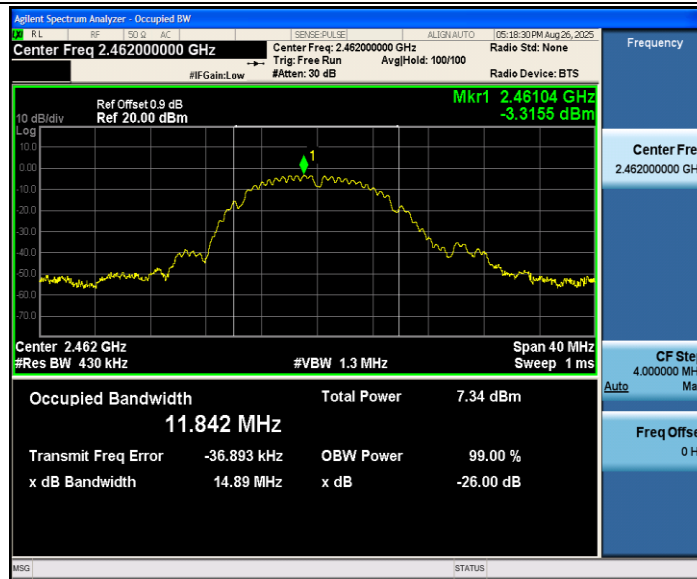
11B_Ant1_2412



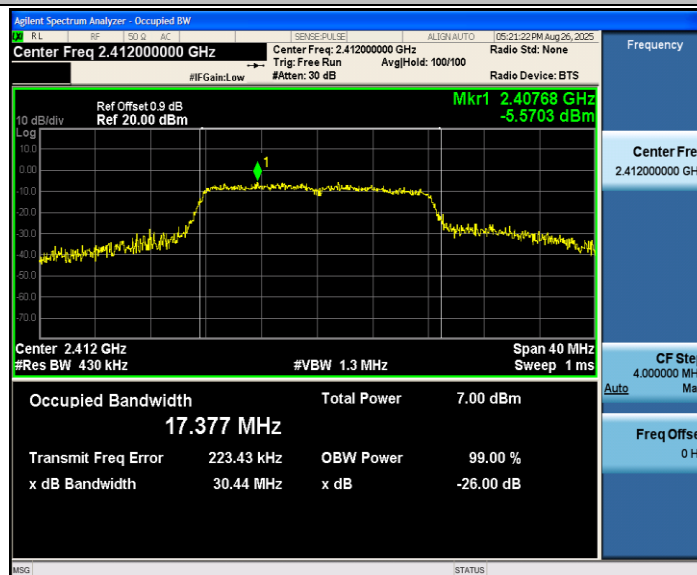
11B_Ant1_2437



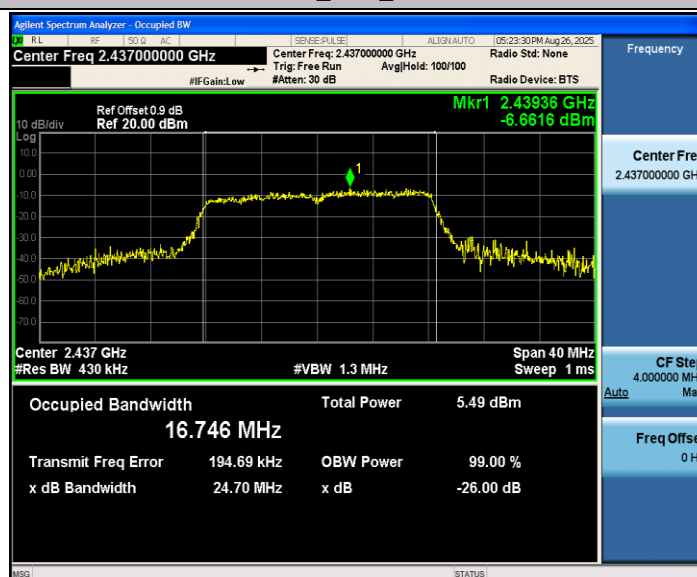
11B_Ant1_2462



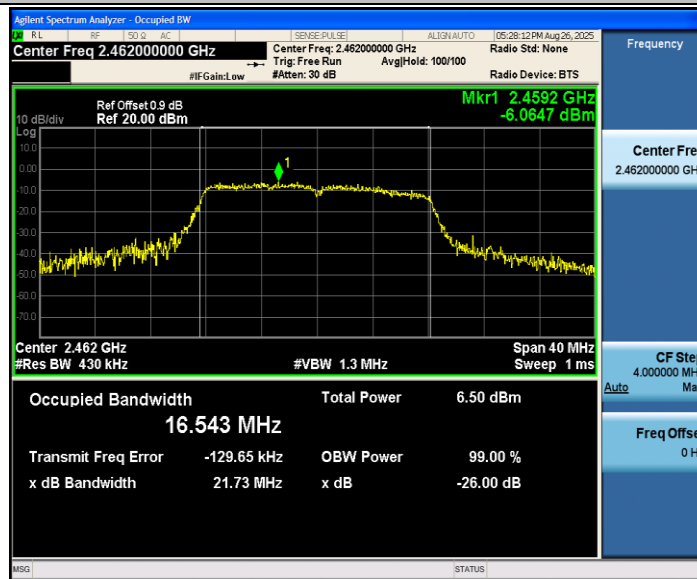
11G_Ant1_2412



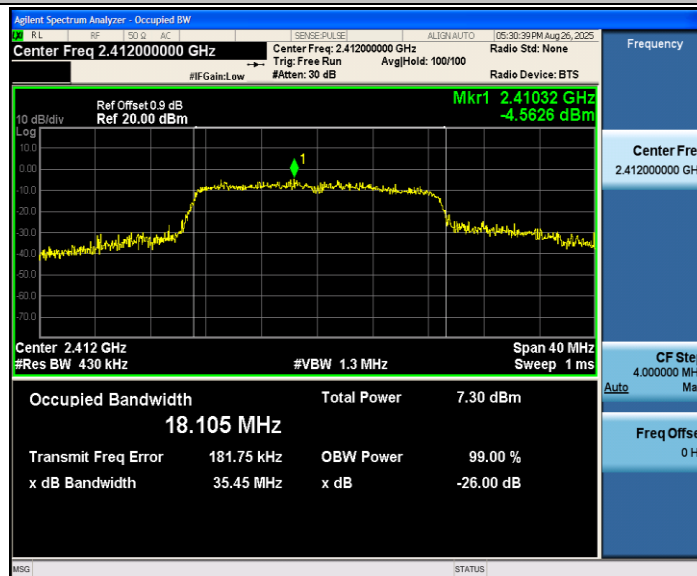
11G_Ant1_2437



11G_Ant1_2462



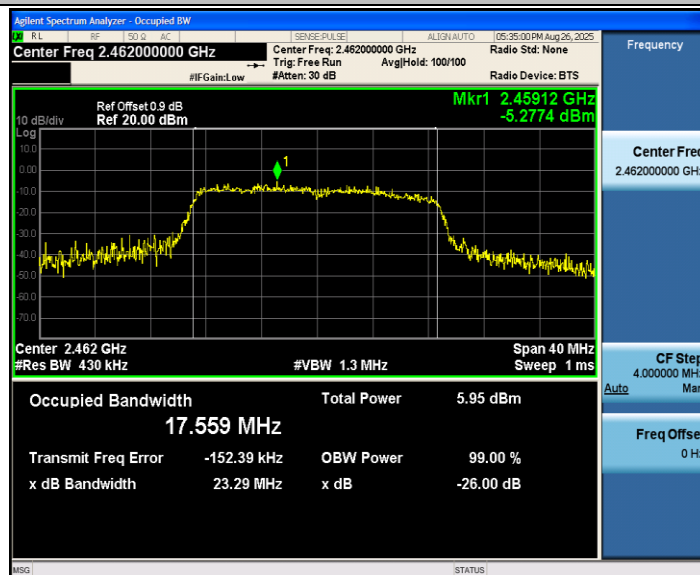
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	8.03	≤30.00	PASS
		2437	7.06	≤30.00	PASS
		2462	7.17	≤30.00	PASS
11G	Ant1	2412	7.59	≤30.00	PASS
		2437	6.04	≤30.00	PASS
		2462	7.31	≤30.00	PASS
11N20SISO	Ant1	2412	7.78	≤30.00	PASS
		2437	6.25	≤30.00	PASS
		2462	6.61	≤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	-17.44	≤8.00	PASS
		2437	-18.57	≤8.00	PASS
		2462	-17.63	≤8.00	PASS
11G	Ant1	2412	-23.36	≤8.00	PASS
		2437	-24.39	≤8.00	PASS
		2462	-23.84	≤8.00	PASS
11N20SISO	Ant1	2412	-24.03	≤8.00	PASS
		2437	-25.25	≤8.00	PASS
		2462	-24.73	≤8.00	PASS

Test Graphs

11B_Ant1_2412



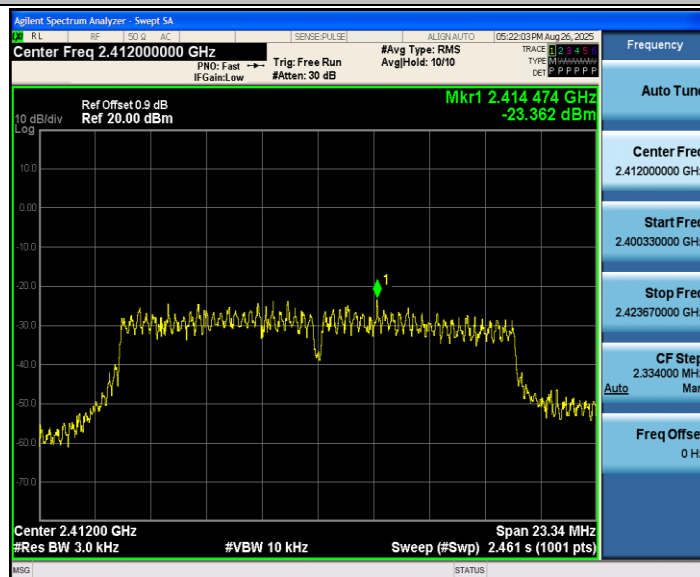
11B_Ant1_2437



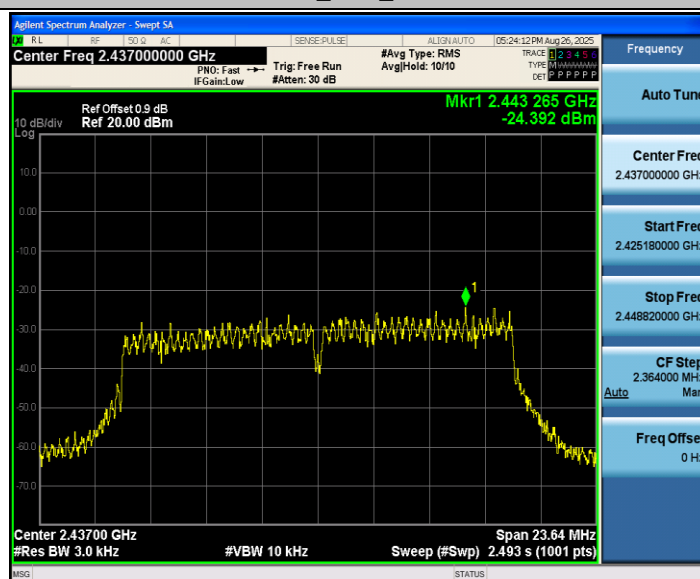
11B_Ant1_2462



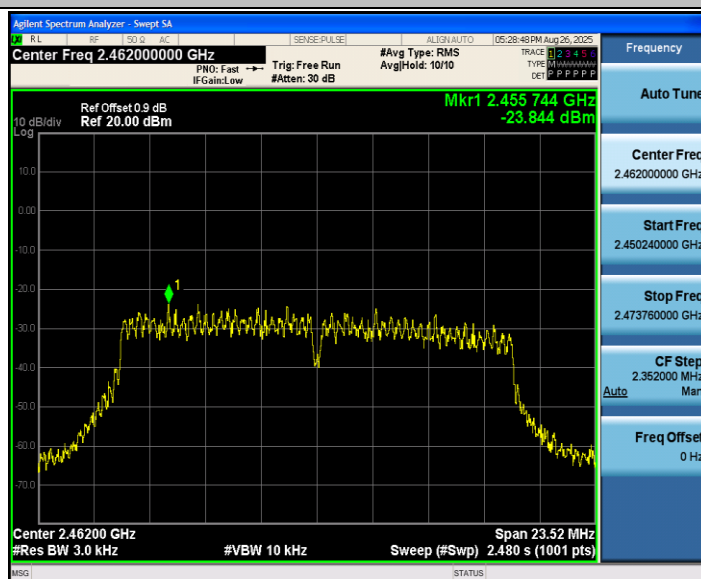
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



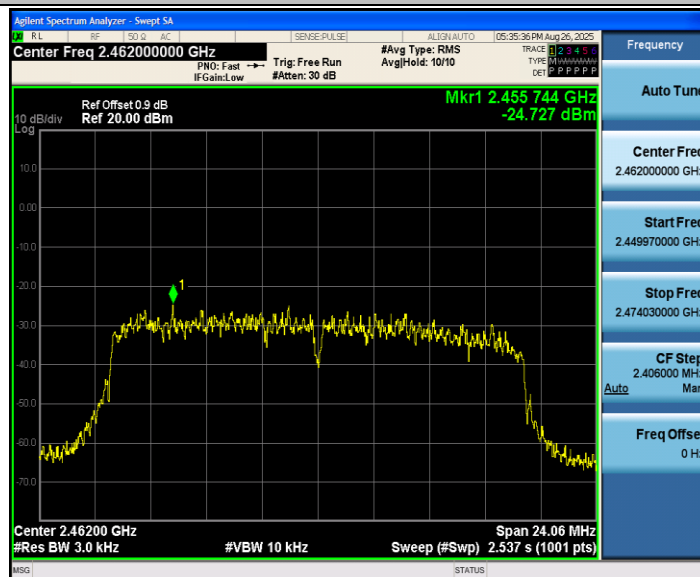
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



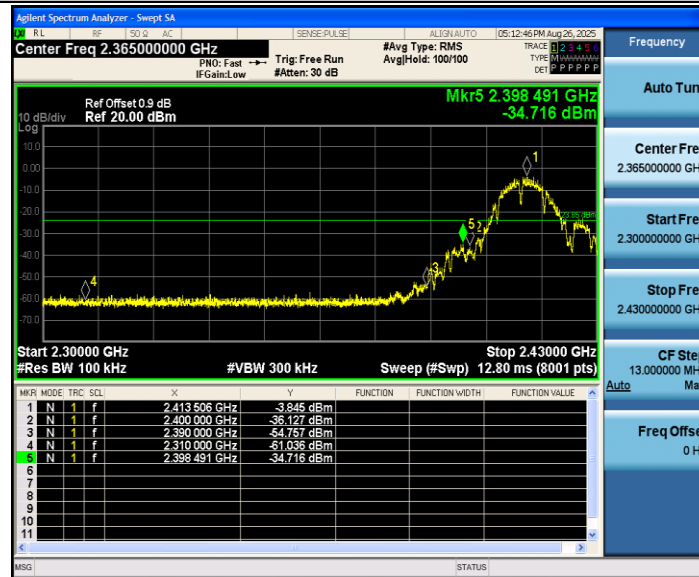
Appendix E: Band edge measurements

Test Result

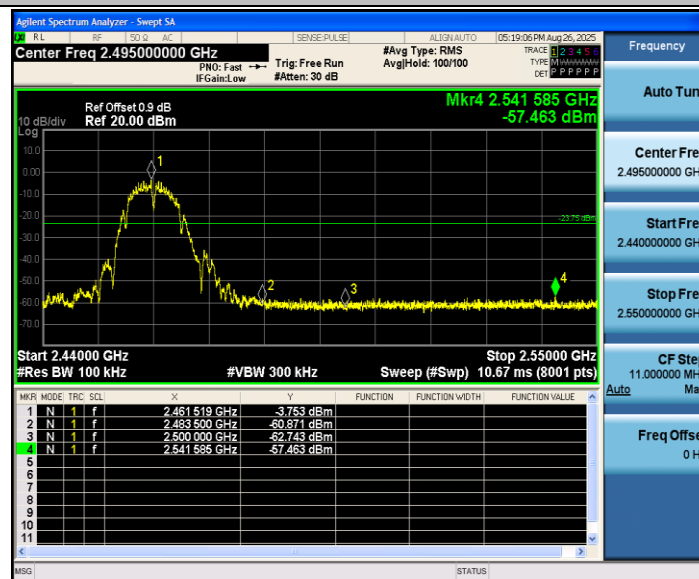
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-3.85	-34.72	≤-23.85	PASS
		High	2462	-3.75	-57.46	≤-23.75	PASS
11G	Ant1	Low	2412	-8.68	-38.29	≤-28.68	PASS
		High	2462	-9.09	-51.04	≤-29.09	PASS
11N20SISO	Ant1	Low	2412	-8.61	-37.53	≤-28.61	PASS
		High	2462	-9.77	-51.65	≤-29.77	PASS

Test Graphs

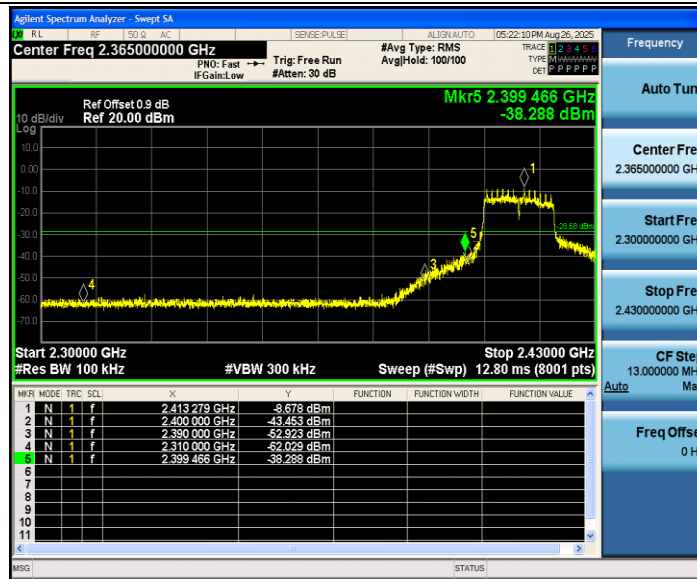
11B_Ant1_Low_2412



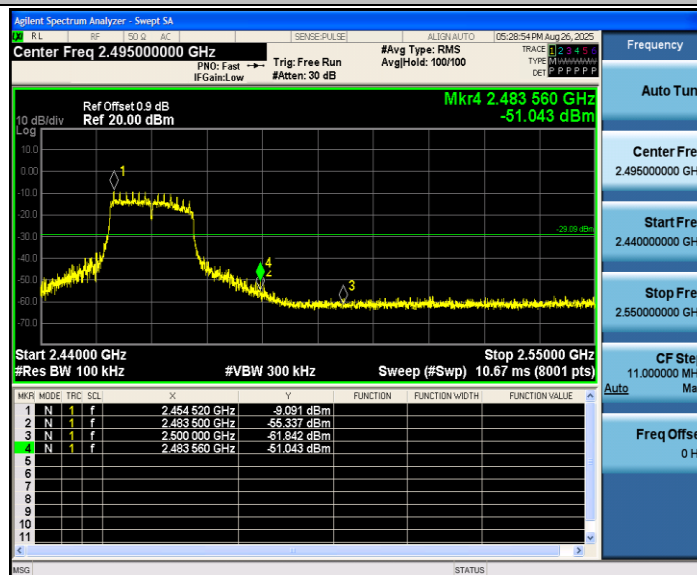
11B_Ant1_High_2462



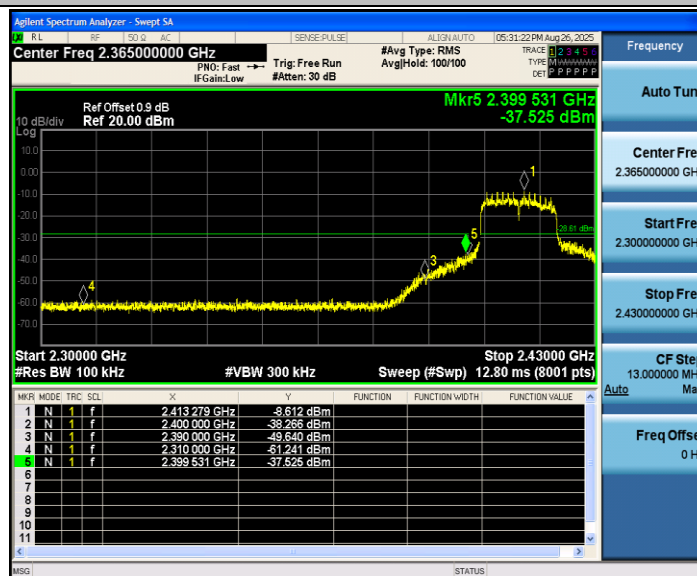
11G_Ant1_Low_2412



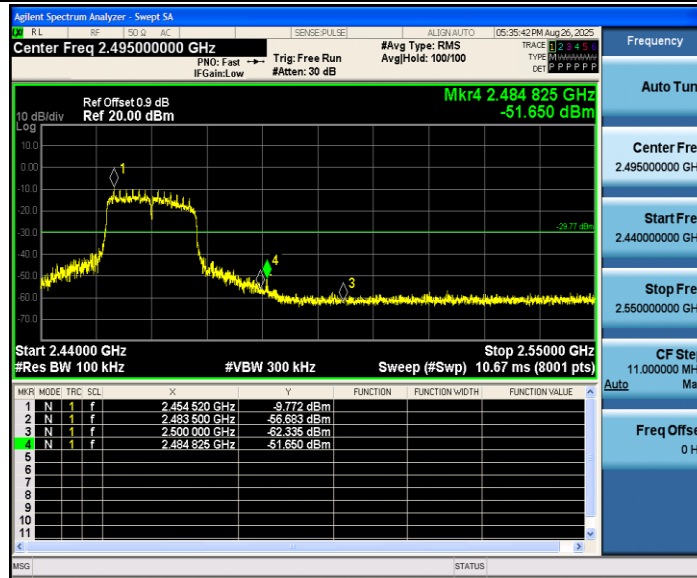
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

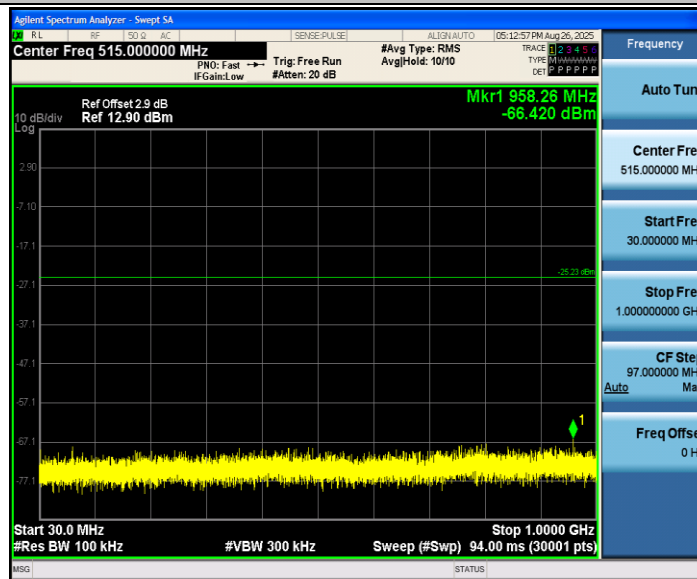
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.23	-5.23	---	PASS
			30~1000	-5.23	-66.42	≤-25.23	PASS
			1000~26500	-5.23	-54.66	≤-25.23	PASS
		2437	Reference	-5.18	-5.18	---	PASS
			30~1000	-5.18	-66.7	≤-25.18	PASS
			1000~26500	-5.18	-54.6	≤-25.18	PASS
		2462	Reference	-3.80	-3.80	---	PASS
			30~1000	-3.80	-67.29	≤-23.8	PASS
			1000~26500	-3.80	-53.91	≤-23.8	PASS
11G	Ant1	2412	Reference	-9.37	-9.37	---	PASS
			30~1000	-9.37	-67.38	≤-29.37	PASS
			1000~26500	-9.37	-54.64	≤-29.37	PASS
		2437	Reference	-10.31	-10.31	---	PASS
			30~1000	-10.31	-67.94	≤-30.31	PASS
			1000~26500	-10.31	-54.5	≤-30.31	PASS
		2462	Reference	-9.75	-9.75	---	PASS
			30~1000	-9.75	-66.99	≤-29.75	PASS
			1000~26500	-9.75	-54.83	≤-29.75	PASS
11N20SISO	Ant1	2412	Reference	-9.46	-9.46	---	PASS
			30~1000	-9.46	-66.61	≤-29.46	PASS
			1000~26500	-9.46	-54.38	≤-29.46	PASS
		2437	Reference	-9.98	-9.98	---	PASS
			30~1000	-9.98	-67.7	≤-29.98	PASS
			1000~26500	-9.98	-54.42	≤-29.98	PASS
		2462	Reference	-10.23	-10.23	---	PASS
			30~1000	-10.23	-67.62	≤-30.23	PASS
			1000~26500	-10.23	-54.22	≤-30.23	PASS

Test Graphs

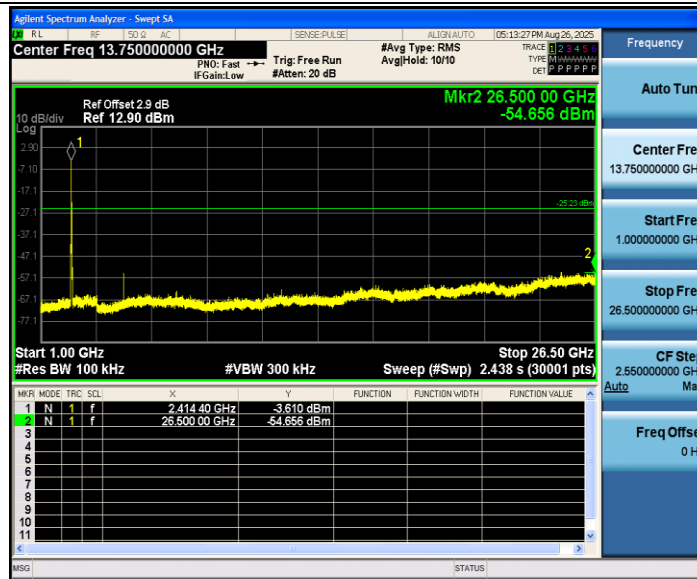
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



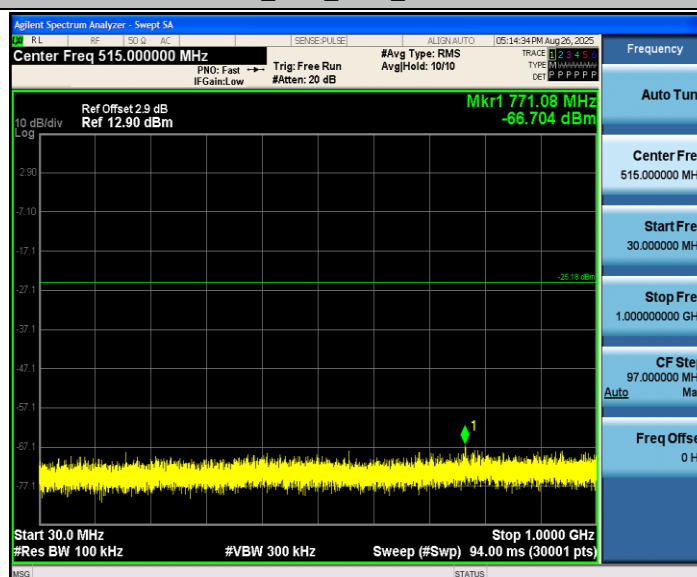
11B_Ant1_2412_1000~26500



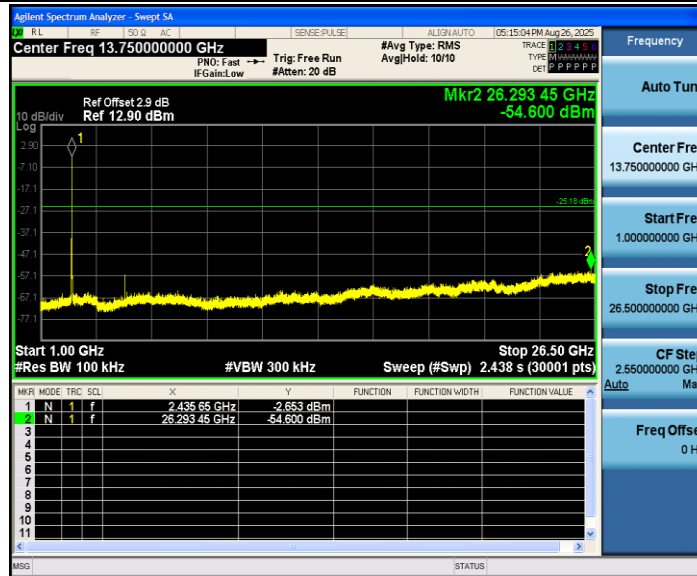
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



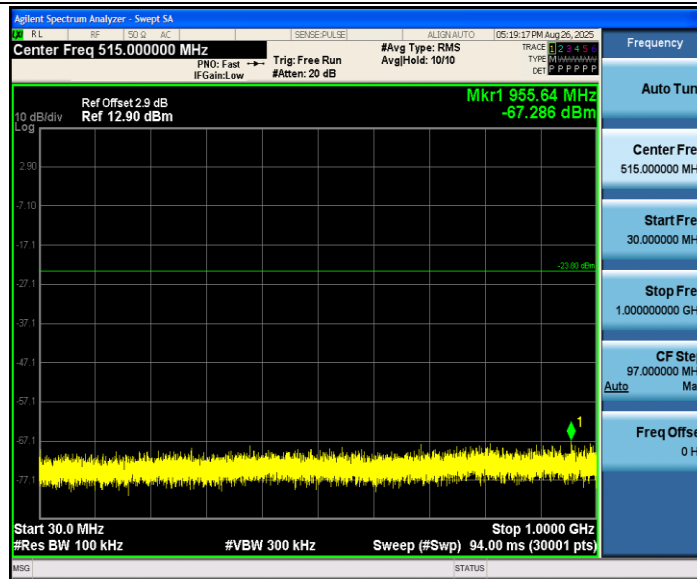
11B_Ant1_2437_1000~26500



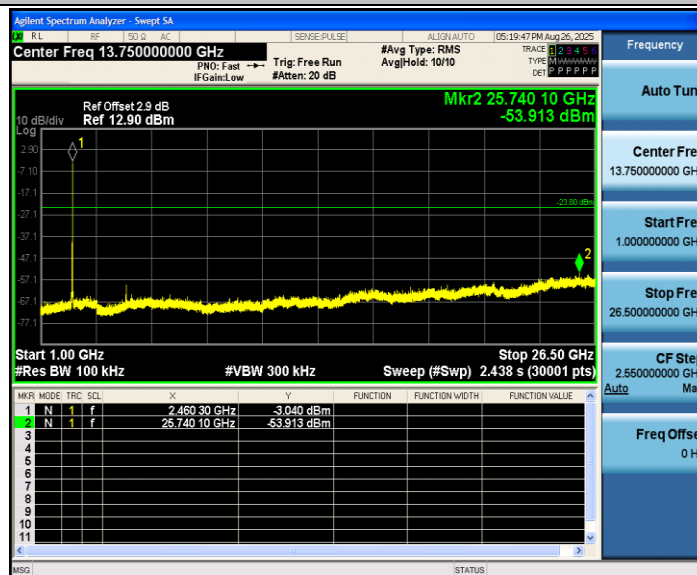
11B_Ant1_2462_0~Reference



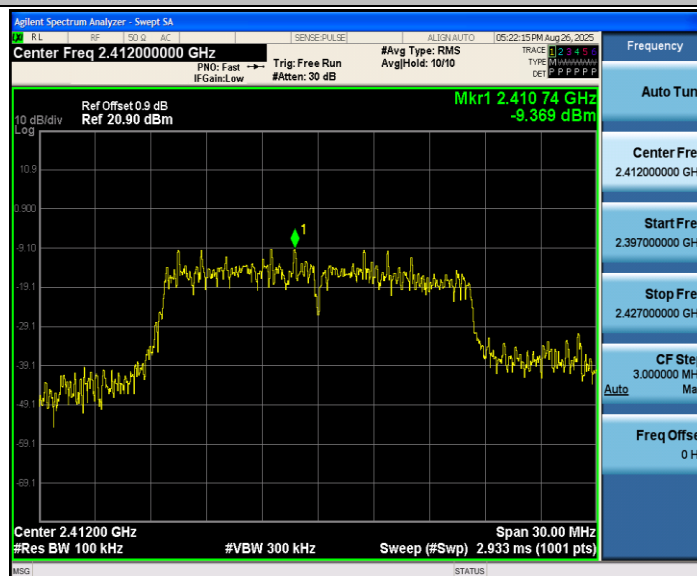
11B_Ant1_2462_30~1000



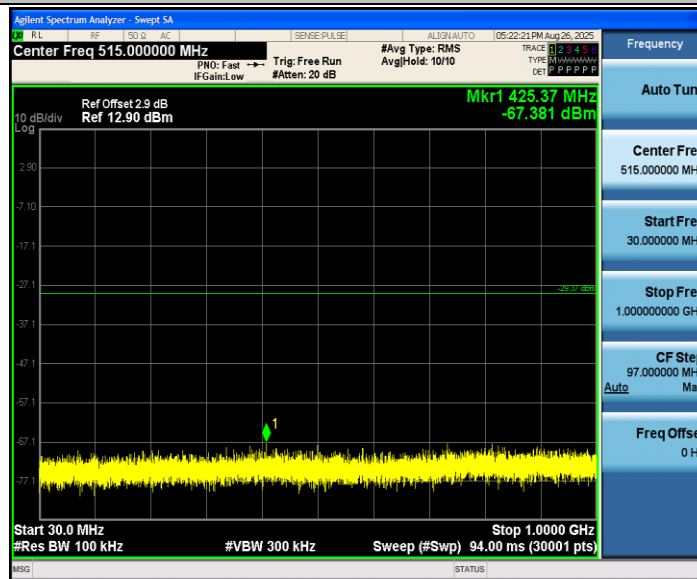
11B_Ant1_2462_1000~26500



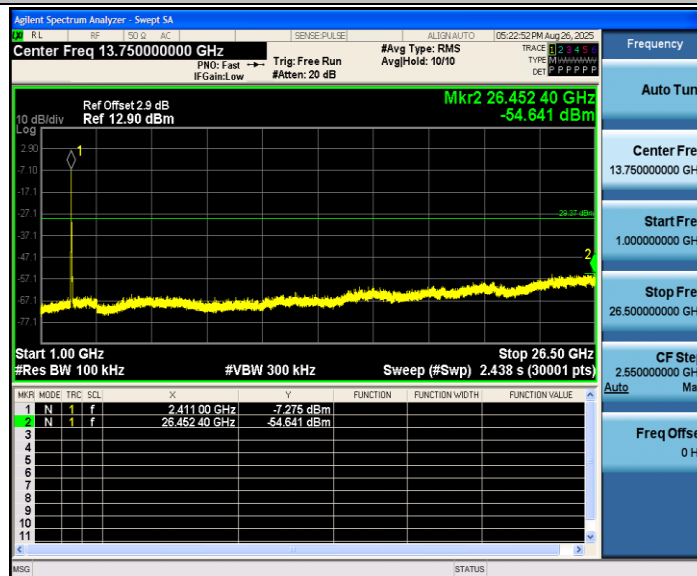
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



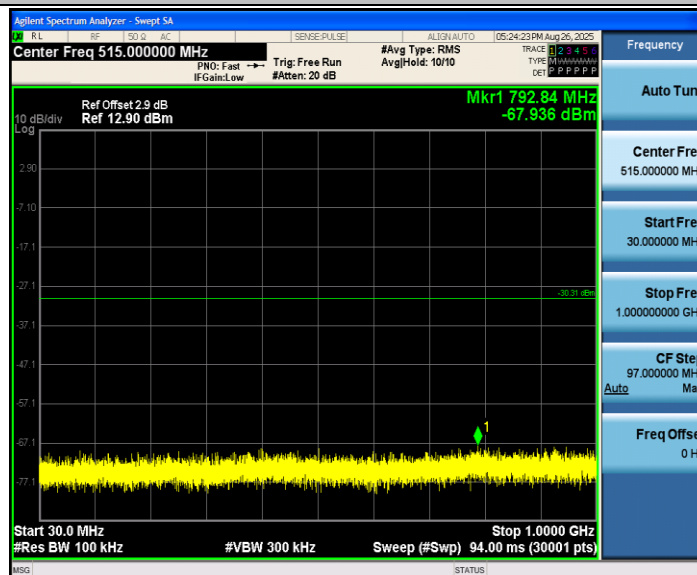
11G_Ant1_2412_1000~26500



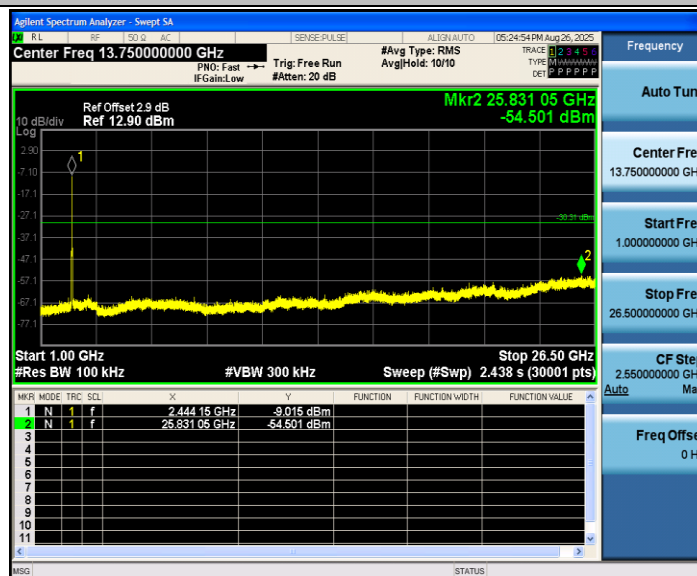
11G_Ant1_2437_0~Reference



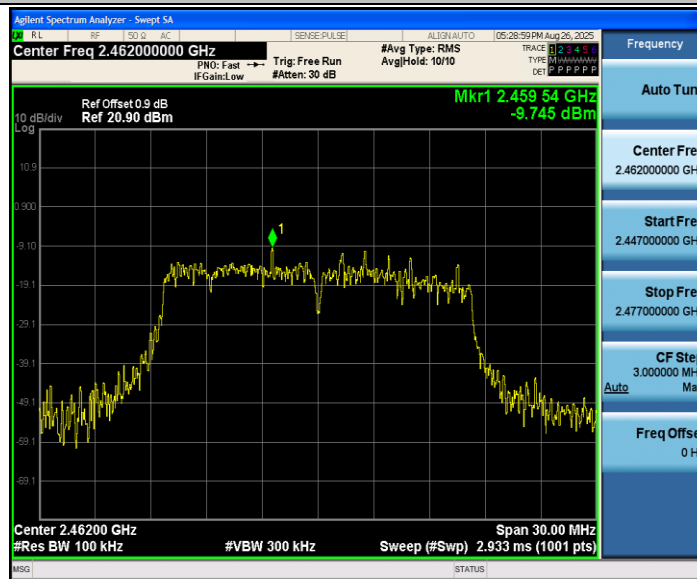
11G_Ant1_2437_30~1000



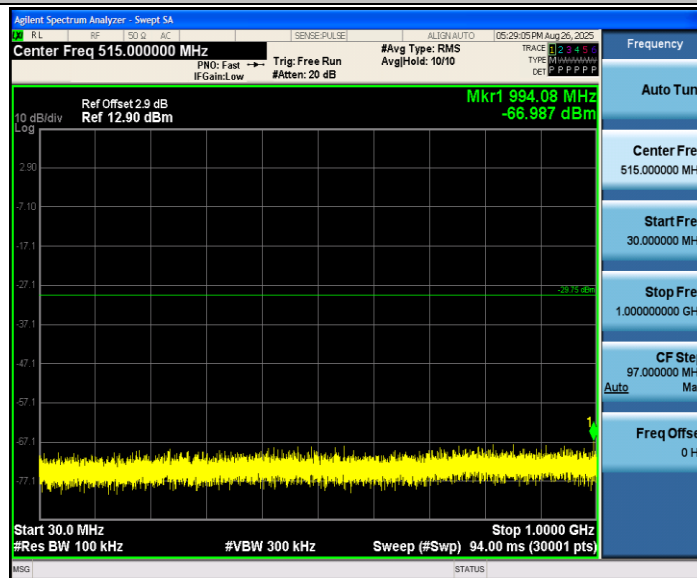
11G_Ant1_2437_1000~26500



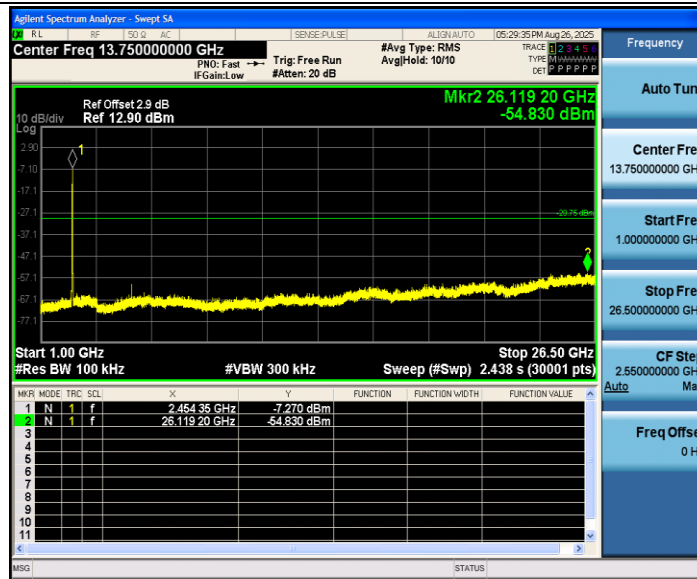
11G_Ant1_2462_0~Reference



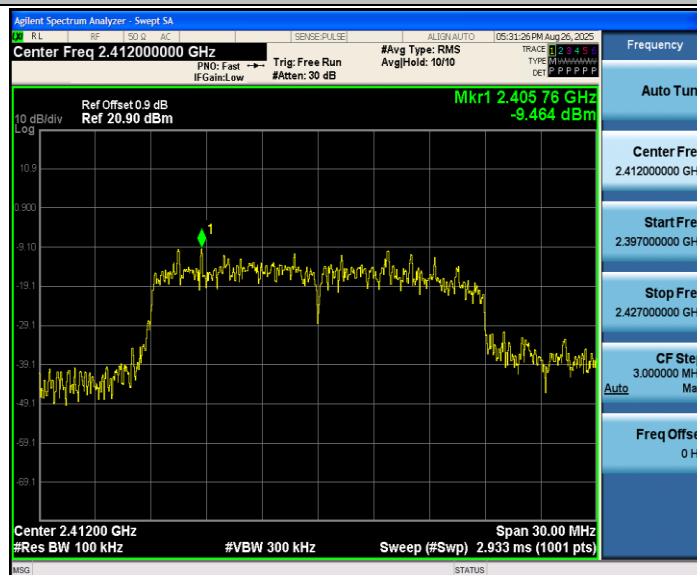
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

