

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BVFB-S76-WL

Company : Shenzhen FARHD Tech Co.,Ltd.

EUT : wireless video door phone Intercom

Model Number : S76-WL

Report No. : CTA26081202001

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	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.680	2404.040	2419.720	0.5	PASS
		2437	15.760	2429.040	2444.800	0.5	PASS
		2462	15.960	2454.040	2470.000	0.5	PASS
11N20SISO	Ant1	2412	16.000	2404.120	2420.120	0.5	PASS
		2437	17.000	2428.440	2445.440	0.5	PASS
		2462	16.640	2453.680	2470.320	0.5	PASS
11N40SISO	Ant1	2422	34.000	2406.000	2440.000	0.5	PASS
		2437	35.360	2419.560	2454.920	0.5	PASS
		2452	35.600	2434.400	2470.000	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



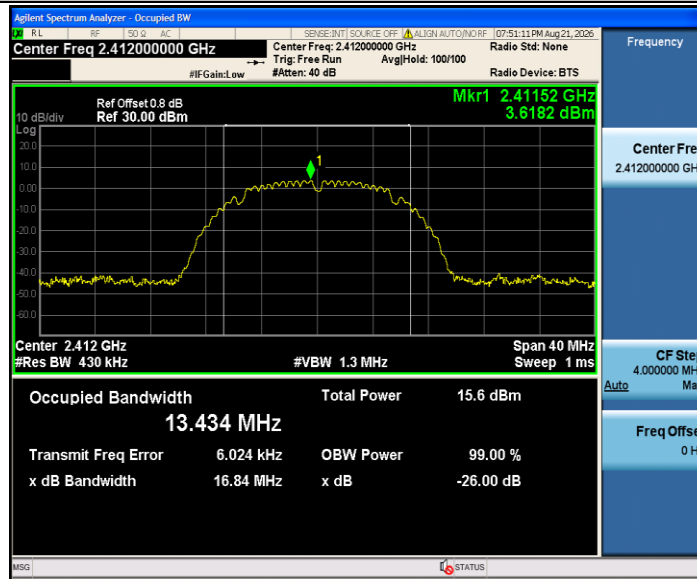
Appendix B: Occupied Channel Bandwidth

Test Result

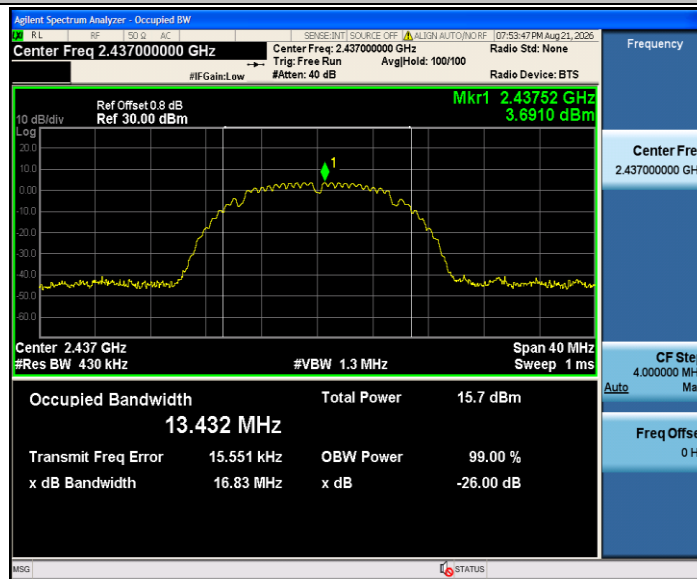
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.434	2405.2890	2418.7230	---	---
		2437	13.432	2430.2996	2443.7316	---	---
		2462	13.426	2455.3131	2468.7391	---	---
11G	Ant1	2412	16.874	2403.5728	2420.4468	---	---
		2437	16.850	2428.6153	2445.4653	---	---
		2462	16.827	2453.6637	2470.4907	---	---
11N20SISO	Ant1	2412	17.942	2403.0268	2420.9688	---	---
		2437	17.880	2428.0892	2445.9692	---	---
		2462	17.842	2453.1204	2470.9624	---	---
11N40SISO	Ant1	2422	36.081	2404.0965	2440.1775	---	---
		2437	36.121	2419.1015	2455.2225	---	---
		2452	36.079	2434.1195	2470.1985	---	---

Test Graphs

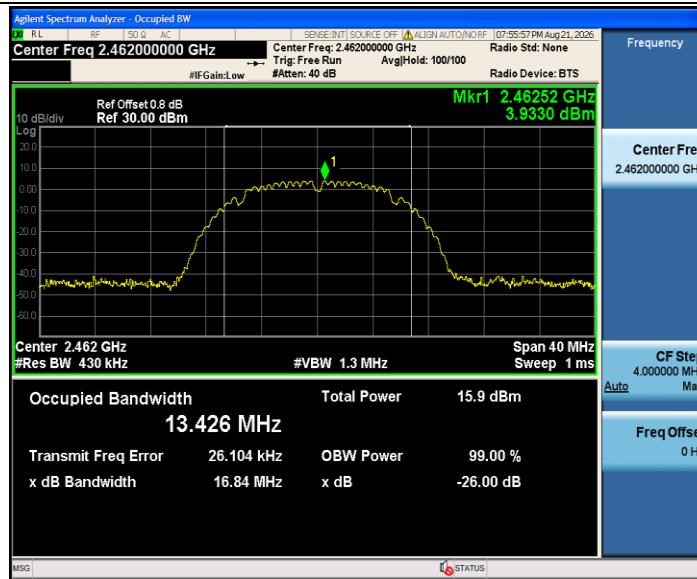
11B_Ant1_2412



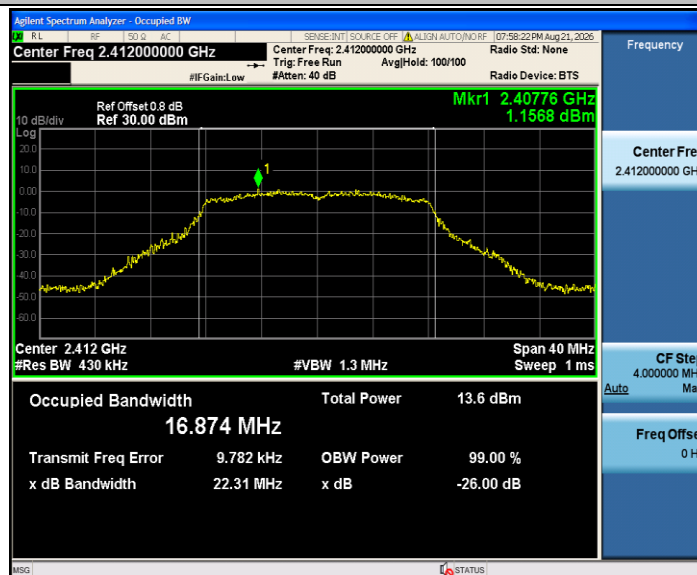
11B_Ant1_2437



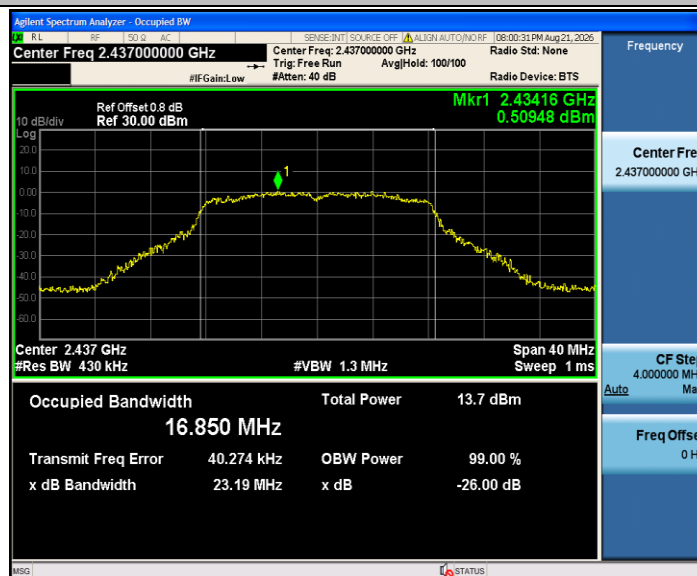
11B_Ant1_2462



11G_Ant1_2412



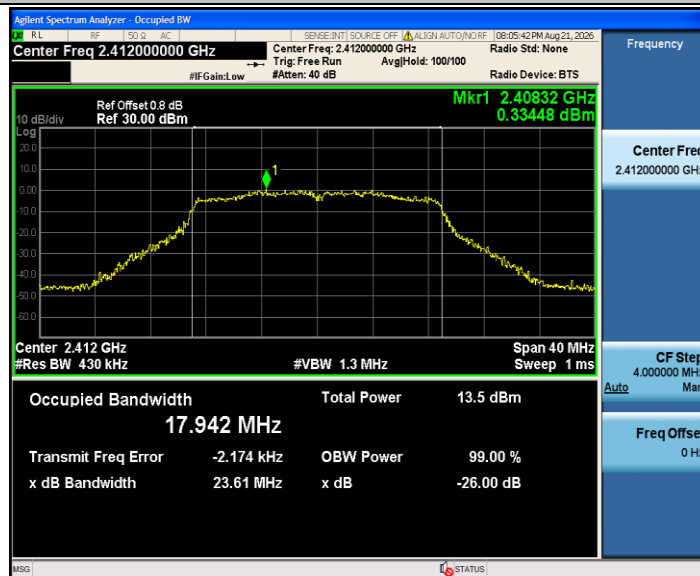
11G_Ant1_2437



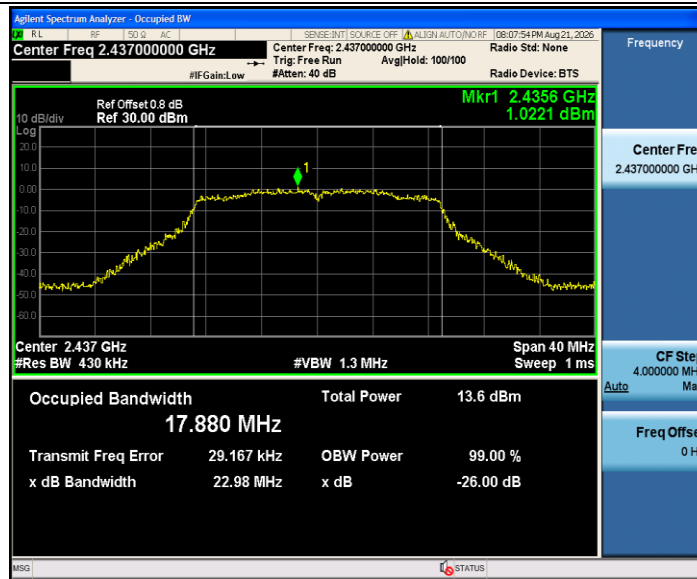
11G_Ant1_2462



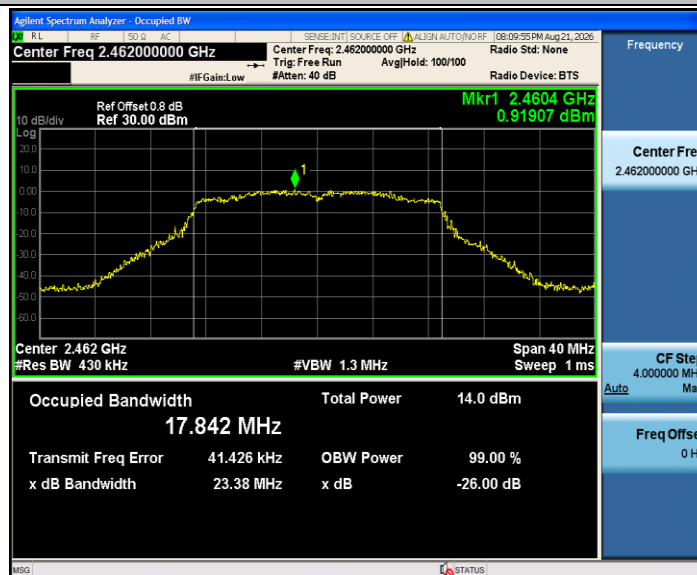
11N20SISO_Ant1_2412



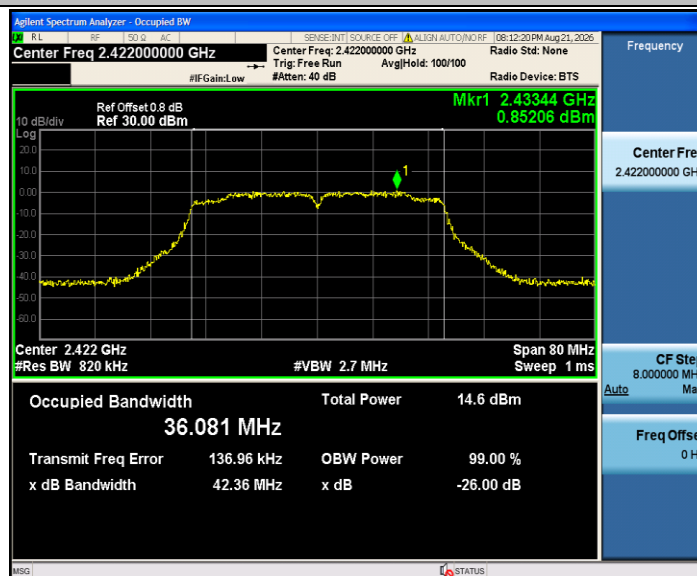
11N20SISO_Ant1_2437



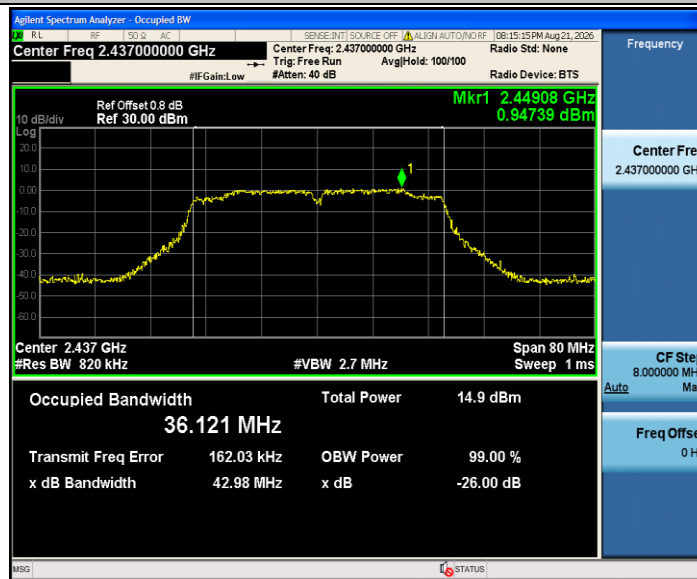
11N20SISO_Ant1_2462



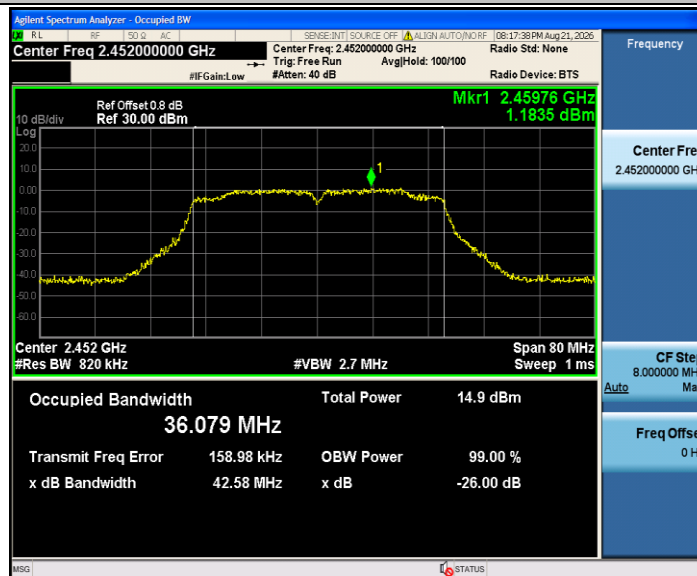
11N40SISO_Ant1_2422



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	15.20	≤30.00	PASS
		2437	15.35	≤30.00	PASS
		2462	15.56	≤30.00	PASS
11G	Ant1	2412	14.55	≤30.00	PASS
		2437	14.59	≤30.00	PASS
		2462	14.95	≤30.00	PASS
11N20SISO	Ant1	2412	14.31	≤30.00	PASS
		2437	14.62	≤30.00	PASS
		2462	14.65	≤30.00	PASS
11N40SISO	Ant1	2422	14.60	≤30.00	PASS
		2437	15.03	≤30.00	PASS
		2452	14.92	≤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	-11.17	≤8.00	PASS
		2437	-10.88	≤8.00	PASS
		2462	-10.75	≤8.00	PASS
11G	Ant1	2412	-17.22	≤8.00	PASS
		2437	-16.80	≤8.00	PASS
		2462	-16.83	≤8.00	PASS
11N20SISO	Ant1	2412	-17.65	≤8.00	PASS
		2437	-17.20	≤8.00	PASS
		2462	-16.51	≤8.00	PASS
11N40SISO	Ant1	2422	-19.85	≤8.00	PASS
		2437	-19.21	≤8.00	PASS
		2452	-18.61	≤8.00	PASS

Test Graphs

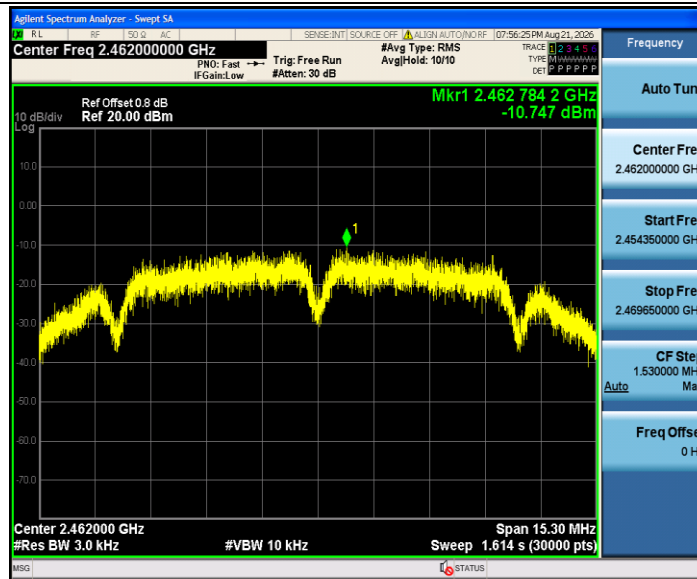
11B_Ant1_2412



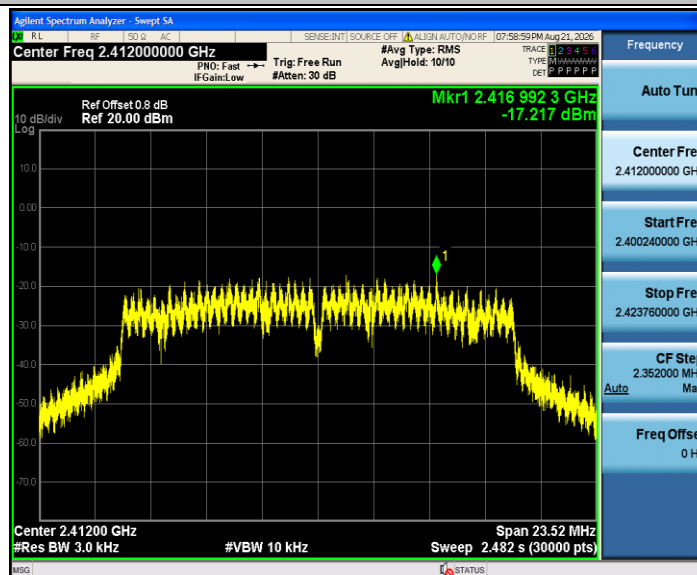
11B_Ant1_2437



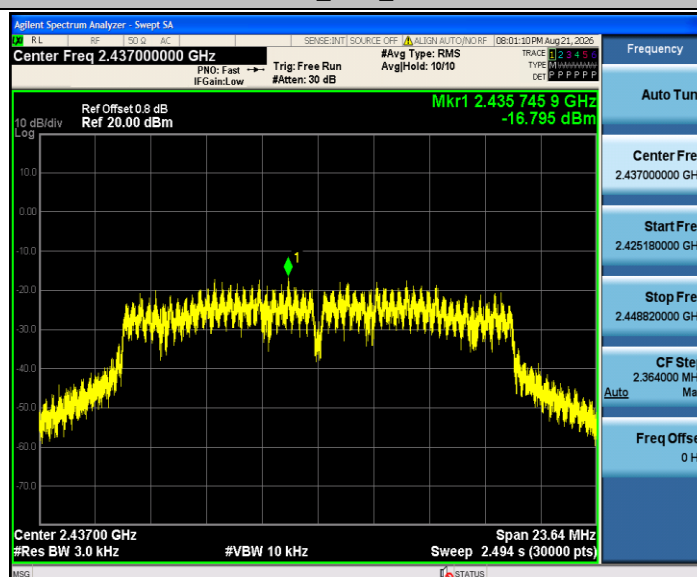
11B_Ant1_2462



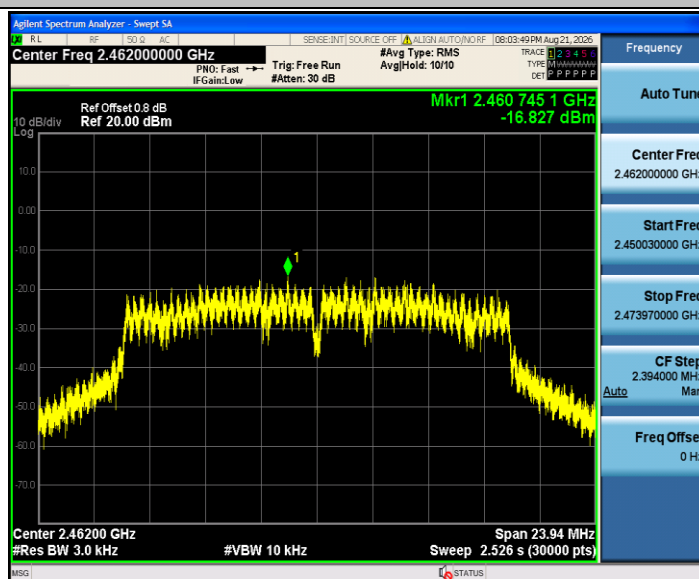
11G_Ant1_2412



11G_Ant1_2437



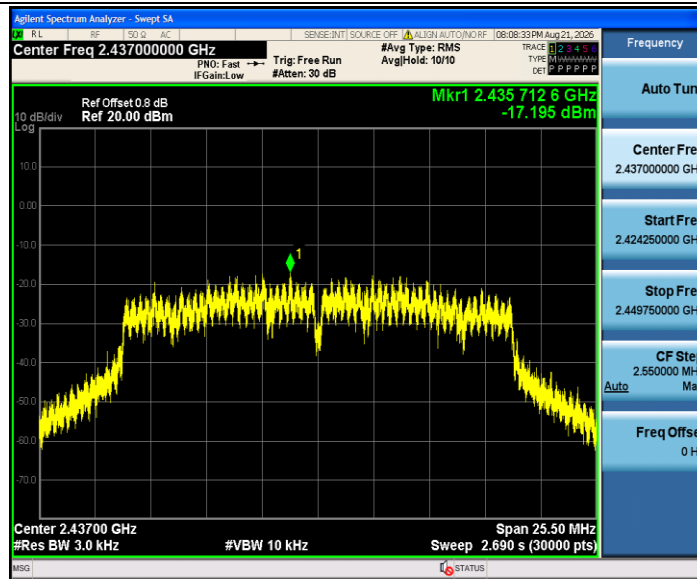
11G_Ant1_2462



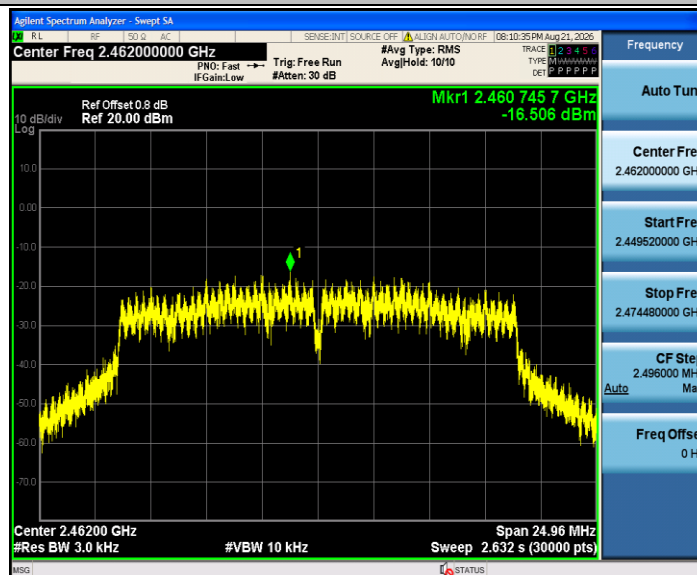
11N20SISO_Ant1_2412



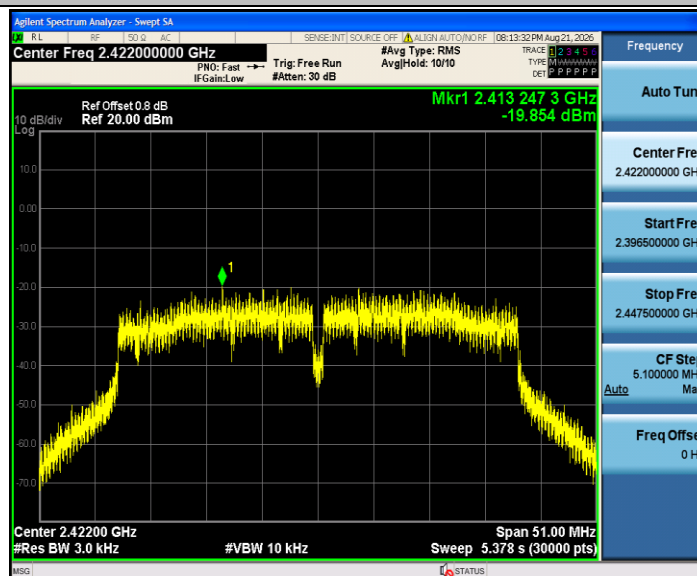
11N20SISO_Ant1_2437



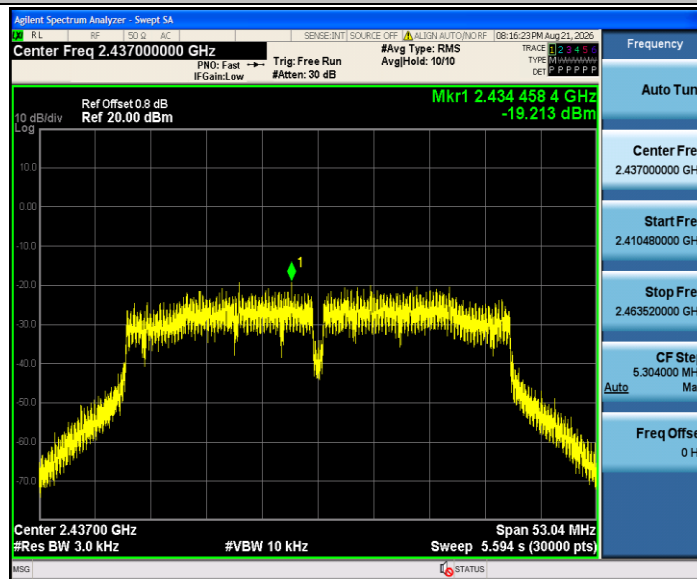
11N20SISO_Ant1_2462



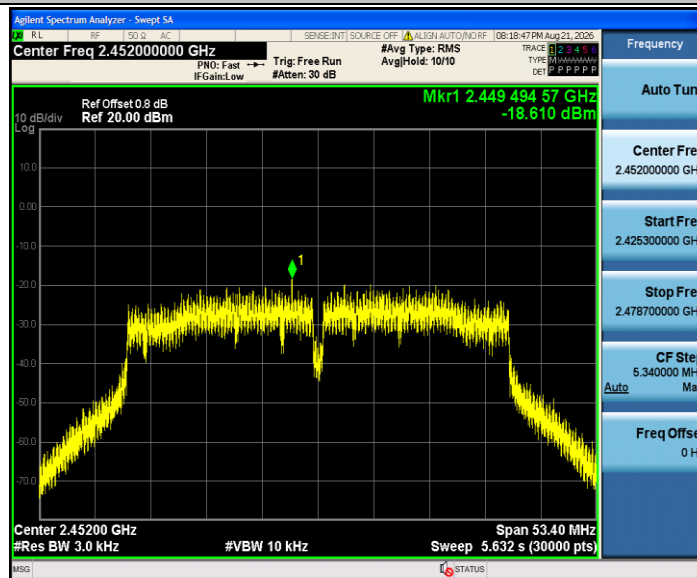
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



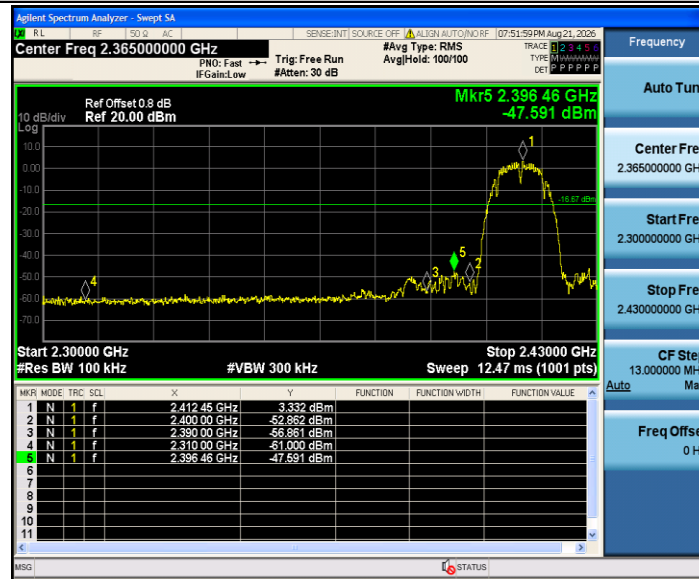
Appendix E: Band edge measurements

Test Result

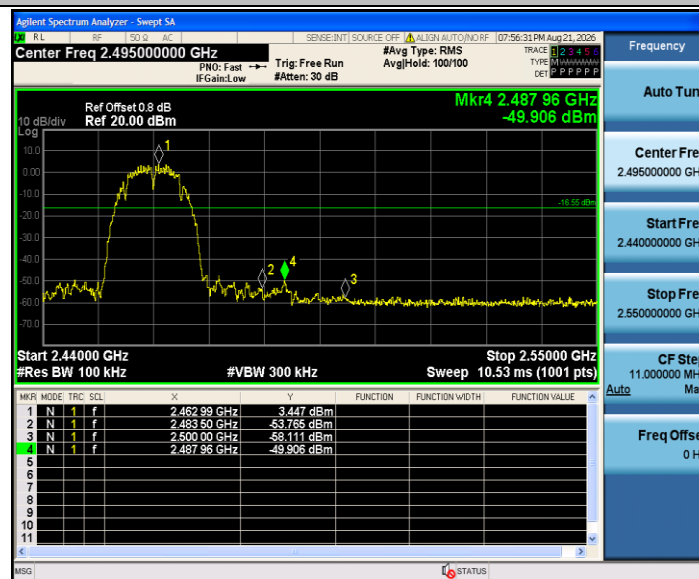
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.33	-47.59	≤-16.67	PASS
		High	2462	3.45	-49.91	≤-16.55	PASS
11G	Ant1	Low	2412	-2.30	-32.49	≤-22.3	PASS
		High	2462	-1.48	-56.68	≤-21.48	PASS
11N20SISO	Ant1	Low	2412	-1.97	-32.29	≤-21.97	PASS
		High	2462	-1.63	-58.07	≤-21.63	PASS
11N40SISO	Ant1	Low	2422	-4.95	-33.58	≤-24.95	PASS
		High	2452	-4.83	-57.03	≤-24.83	PASS

Test Graphs

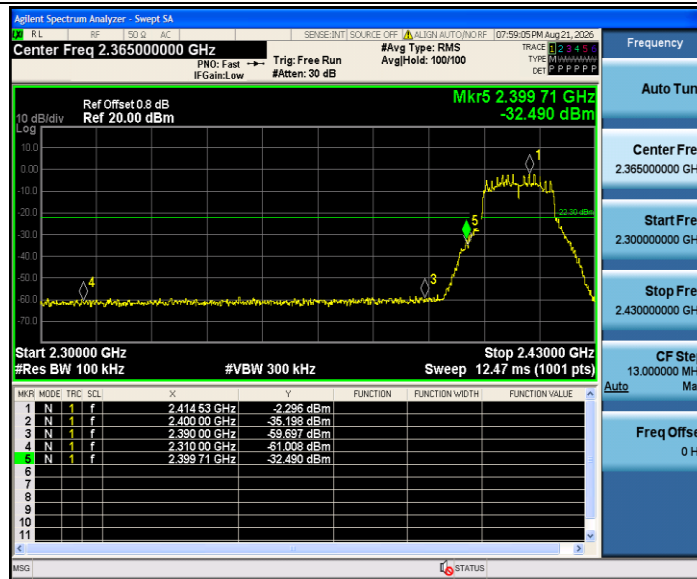
11B_Ant1_Low_2412



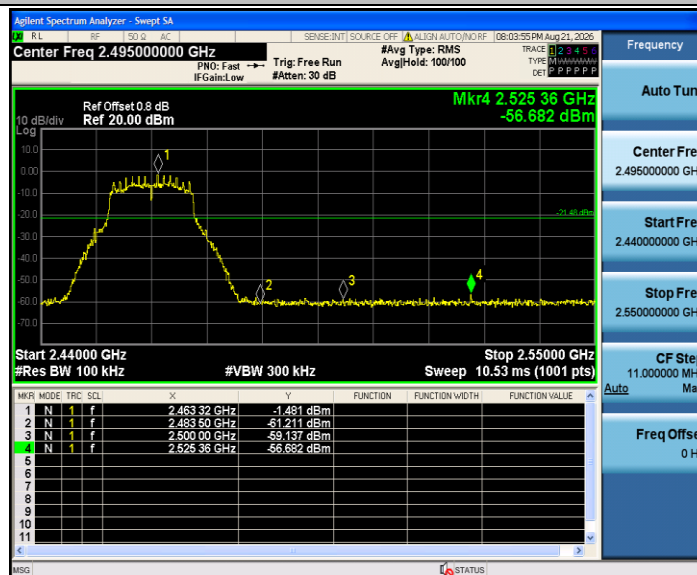
11B_Ant1_High_2462



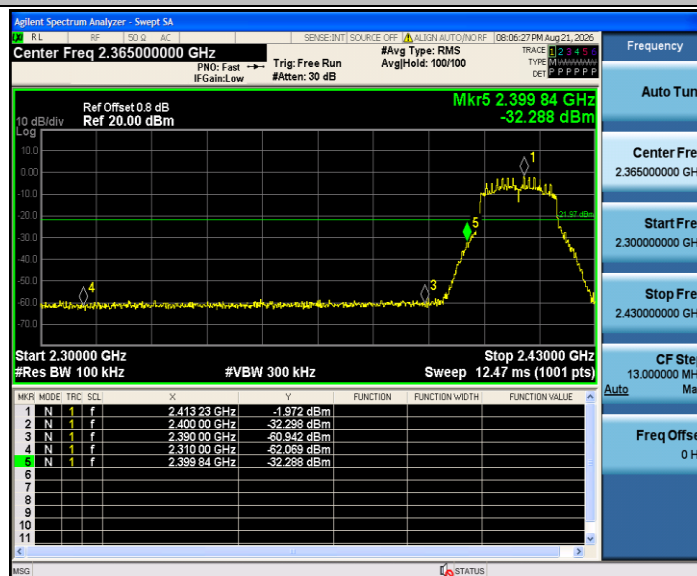
11G_Ant1_Low_2412



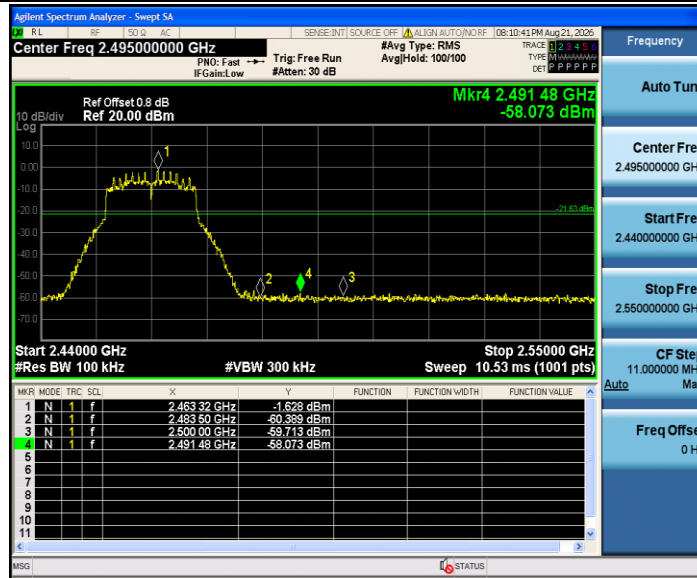
11G_Ant1_High_2462



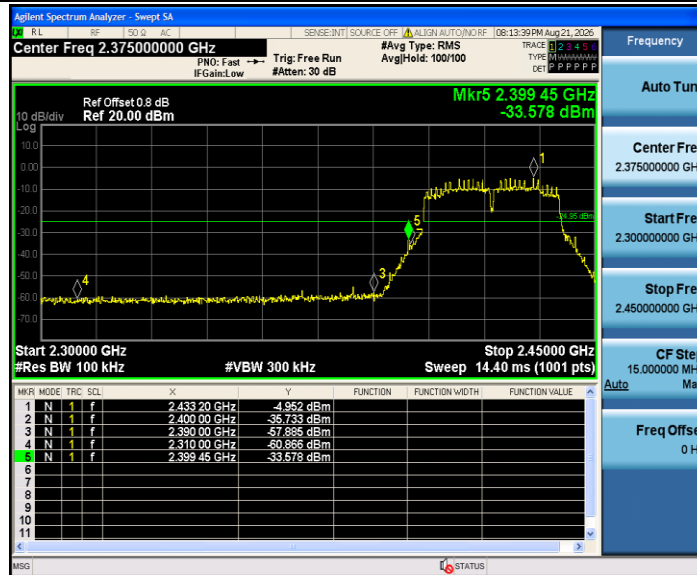
11N20SISO_Ant1_Low_2412



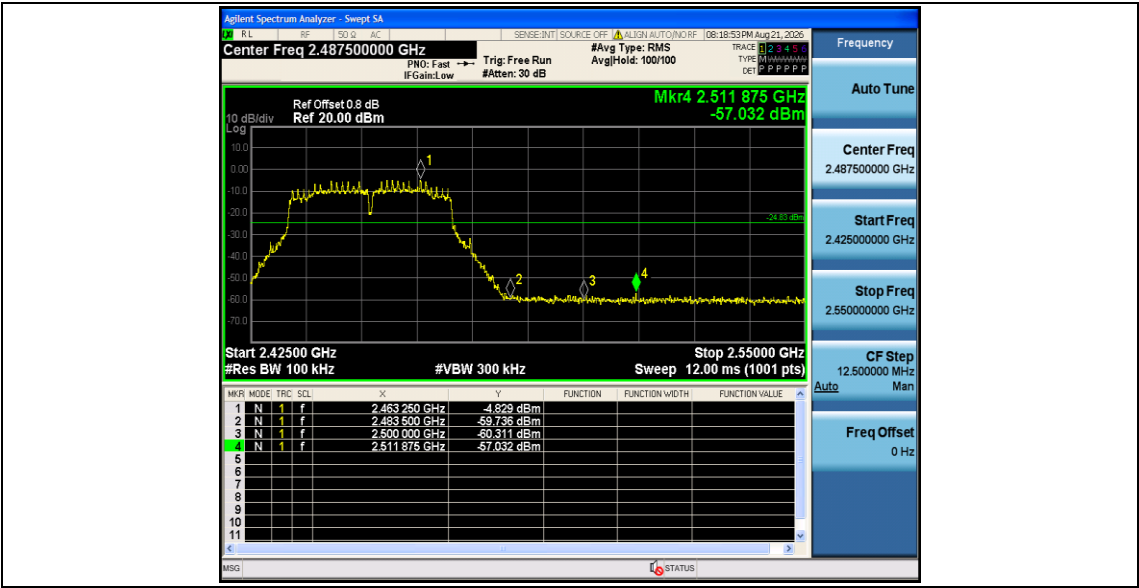
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

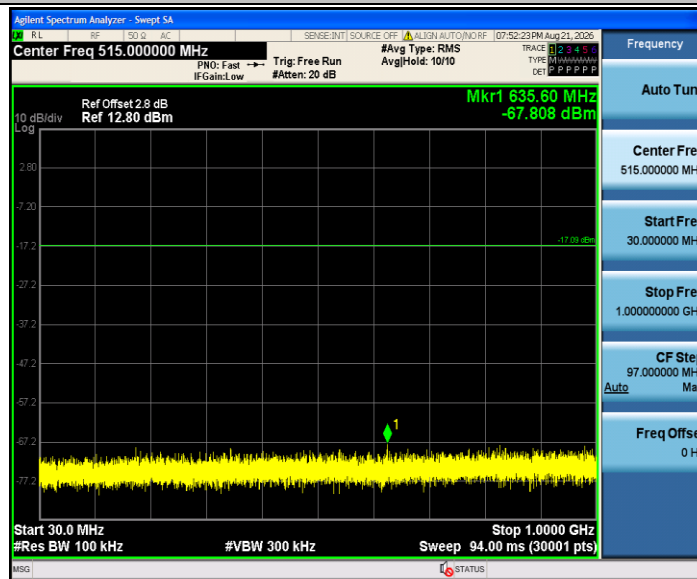
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.91	2.91	---	PASS
			30~1000	2.91	-67.81	≤-17.09	PASS
			1000~26500	2.91	-46.33	≤-17.09	PASS
		2437	Reference	3.03	3.03	---	PASS
			30~1000	3.03	-67.58	≤-16.97	PASS
			1000~26500	3.03	-45.59	≤-16.97	PASS
		2462	Reference	3.07	3.07	---	PASS
			30~1000	3.07	-67.21	≤-16.93	PASS
			1000~26500	3.07	-46.31	≤-16.93	PASS
11G	Ant1	2412	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-67.97	≤-22.27	PASS
			1000~26500	-2.27	-45.35	≤-22.27	PASS
		2437	Reference	-2.61	-2.61	---	PASS
			30~1000	-2.61	-67.76	≤-22.61	PASS
			1000~26500	-2.61	-45.76	≤-22.61	PASS
		2462	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-67.28	≤-22.13	PASS
			1000~26500	-2.13	-45.57	≤-22.13	PASS
11N20SISO	Ant1	2412	Reference	-1.97	-1.97	---	PASS
			30~1000	-1.97	-67.39	≤-21.97	PASS
			1000~26500	-1.97	-46.73	≤-21.97	PASS
		2437	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-68.21	≤-22.47	PASS
			1000~26500	-2.47	-46.22	≤-22.47	PASS
		2462	Reference	-2.56	-2.56	---	PASS
			30~1000	-2.56	-67.8	≤-22.56	PASS
			1000~26500	-2.56	-46.14	≤-22.56	PASS
11N40SISO	Ant1	2422	Reference	-5.56	-5.56	---	PASS
			30~1000	-5.56	-67.96	≤-25.56	PASS
			1000~26500	-5.56	-46.26	≤-25.56	PASS
		2437	Reference	-5.22	-5.22	---	PASS
			30~1000	-5.22	-67.45	≤-25.22	PASS
			1000~26500	-5.22	-47.01	≤-25.22	PASS
		2452	Reference	-5.43	-5.43	---	PASS
			30~1000	-5.43	-68.31	≤-25.43	PASS
			1000~26500	-5.43	-46.68	≤-25.43	PASS

Test Graphs

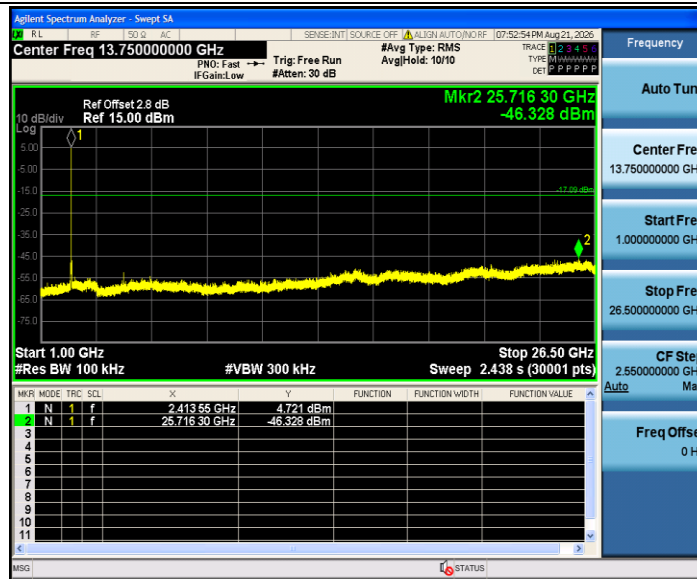
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



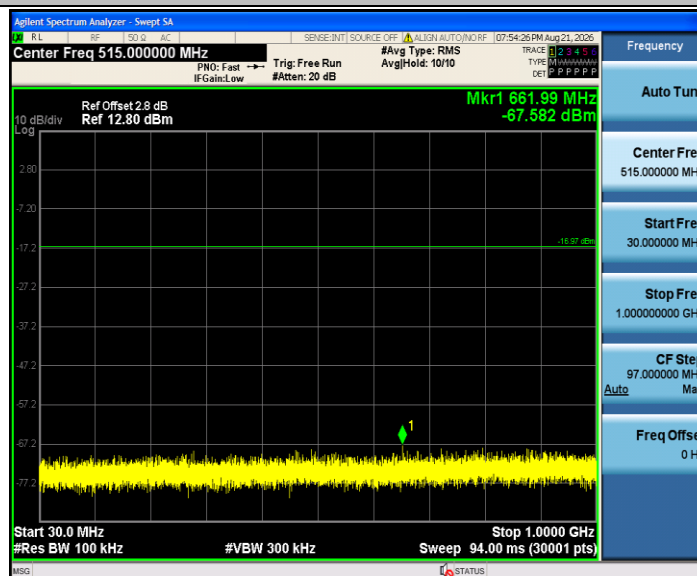
11B_Ant1_2412_1000~26500



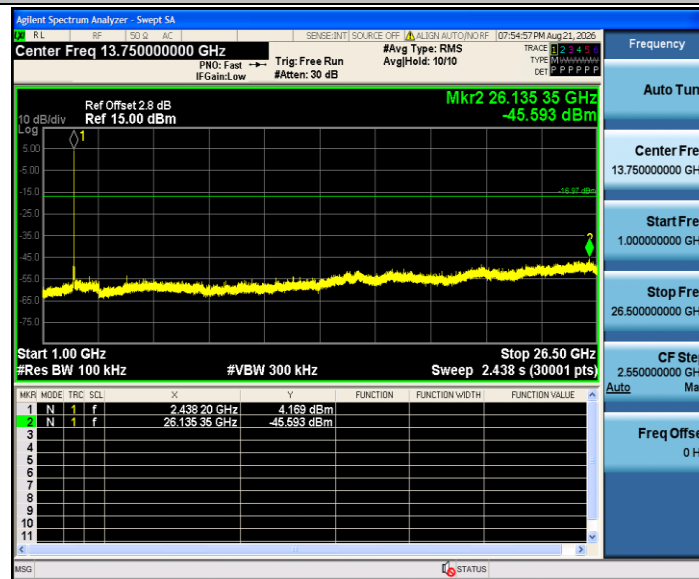
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



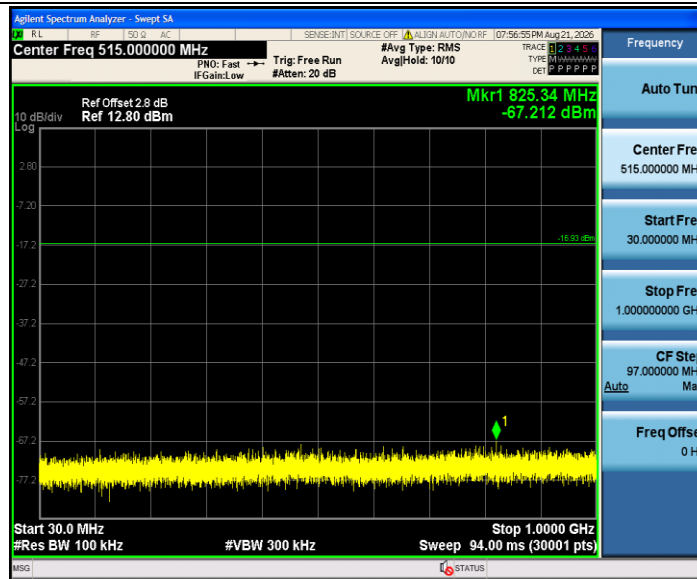
11B_Ant1_2437_1000~26500



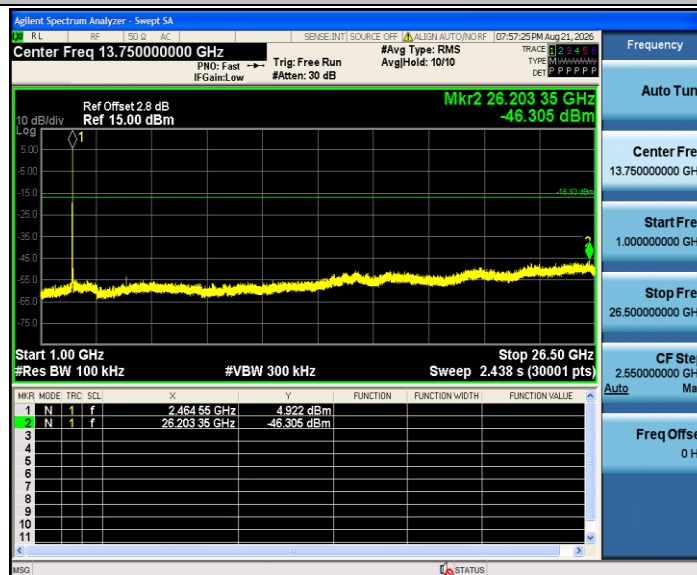
11B_Ant1_2462_0~Reference



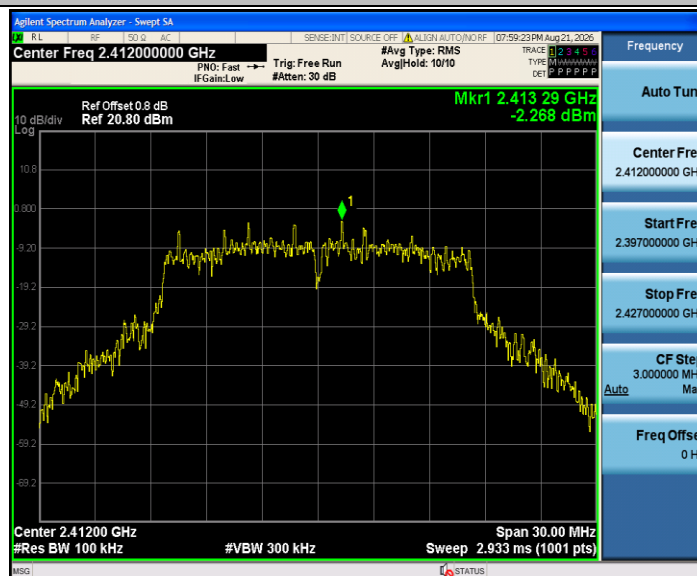
11B_Ant1_2462_30~1000



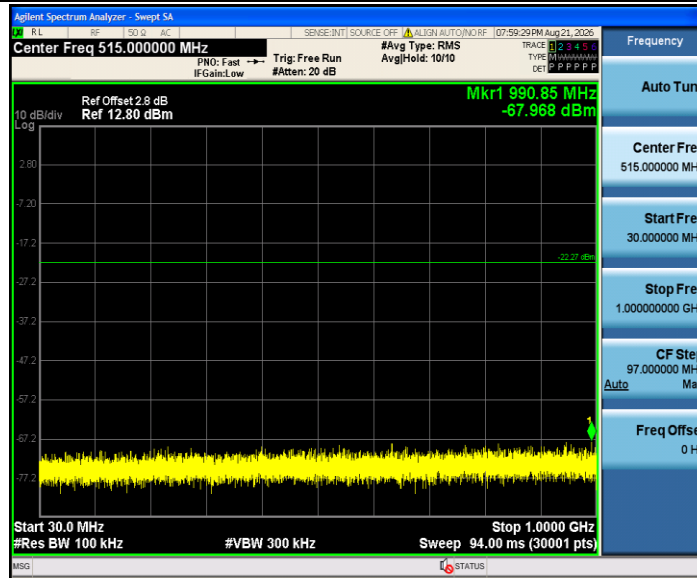
11B_Ant1_2462_1000~26500



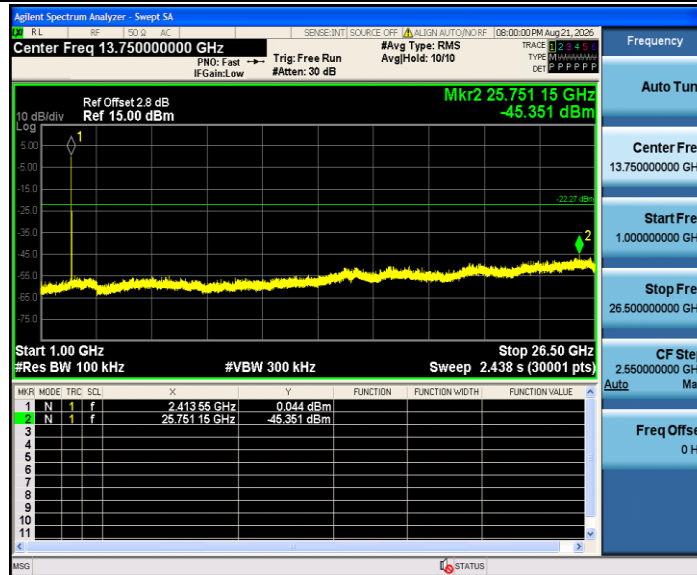
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



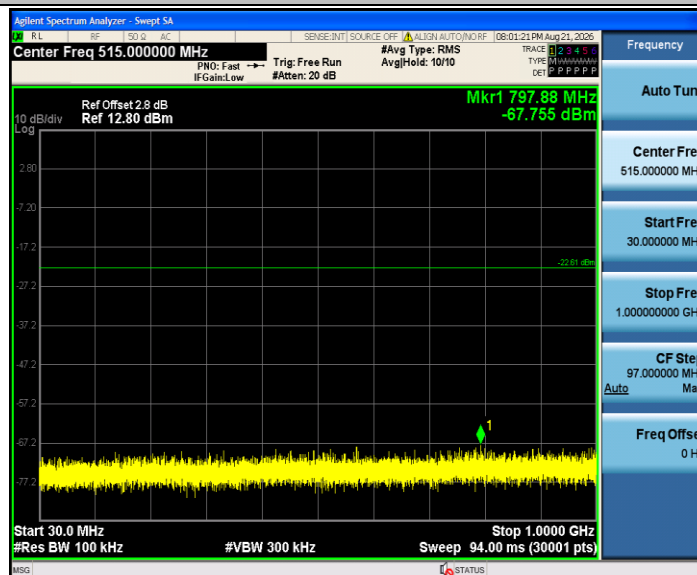
11G_Ant1_2412_1000~26500



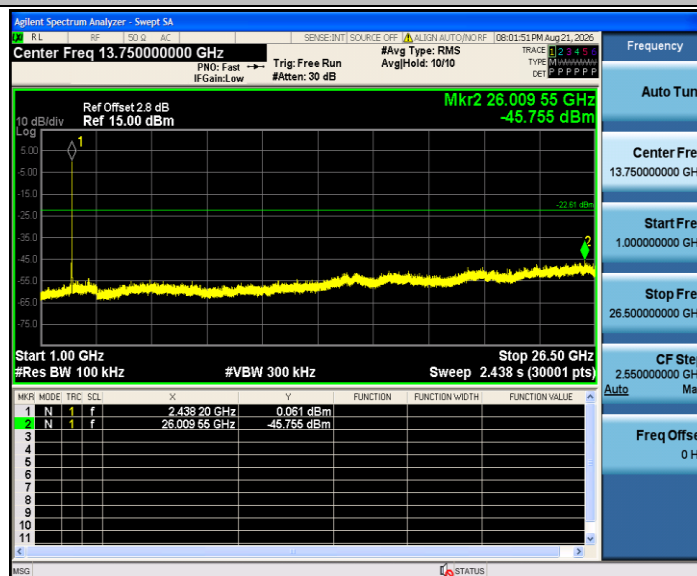
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



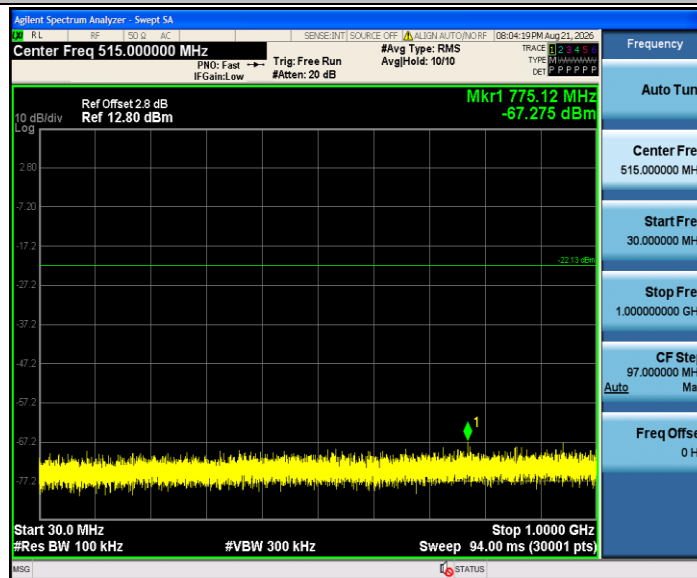
11G_Ant1_2437_1000~26500



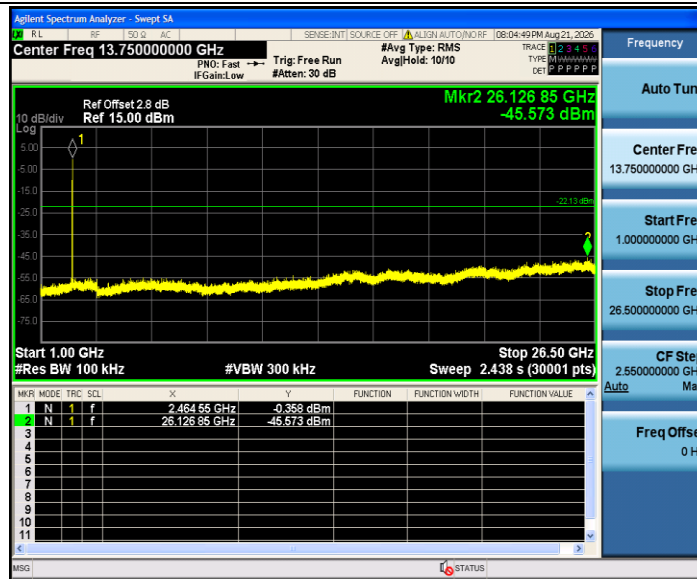
11G_Ant1_2462_0~Reference



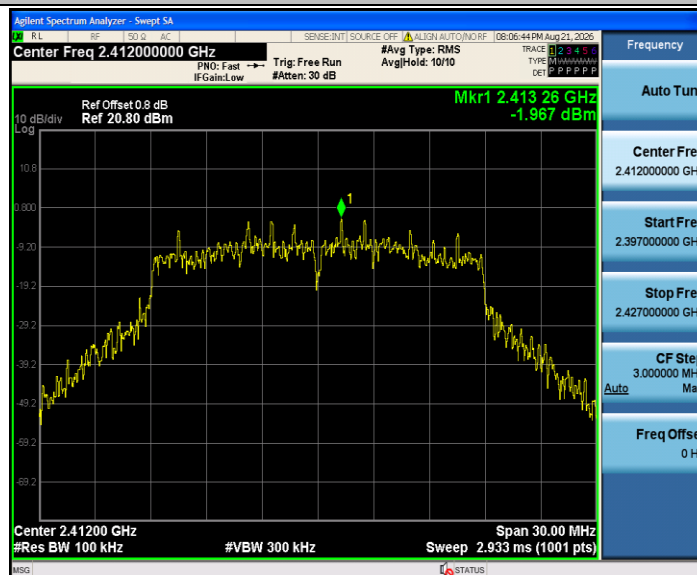
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

