

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BNXB-CS20

Company : Shenzhen Mingjiu Technology Co., Ltd

EUT : Video call camera

Model Number : CS20

Report No. : CTA26071000701

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	10.200	2406.920	2417.120	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.800	2404.040	2419.840	0.5	PASS
		2437	16.040	2428.960	2445.000	0.5	PASS
		2462	15.880	2454.080	2469.960	0.5	PASS
11N20SISO	Ant1	2412	16.560	2403.840	2420.400	0.5	PASS
		2437	17.080	2428.520	2445.600	0.5	PASS
		2462	16.400	2454.040	2470.440	0.5	PASS
11N40SISO	Ant1	2422	34.720	2405.120	2439.840	0.5	PASS
		2437	35.840	2419.160	2455.000	0.5	PASS
		2452	35.520	2434.400	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



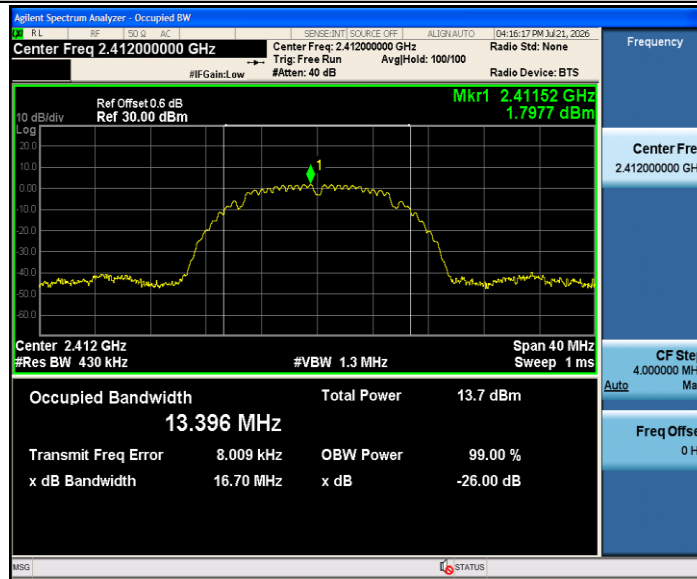
Appendix B: Occupied Channel Bandwidth

Test Result

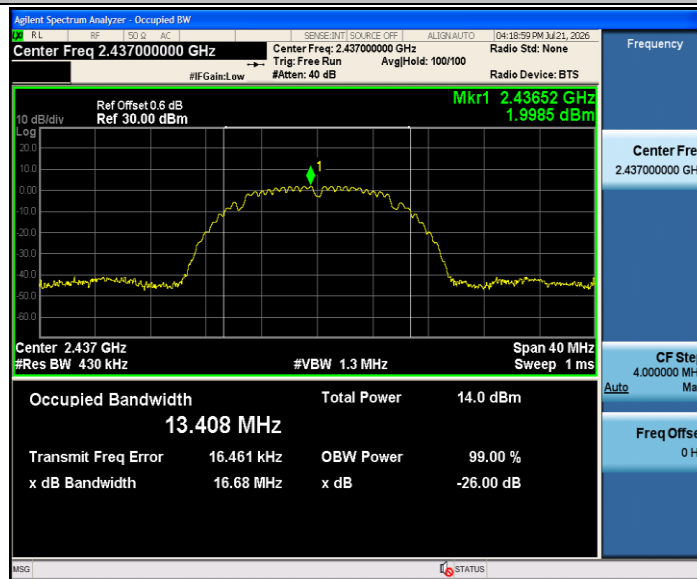
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.396	2405.3100	2418.7060	---	---
		2437	13.408	2430.3125	2443.7205	---	---
		2462	13.420	2455.3151	2468.7351	---	---
11G	Ant1	2412	16.888	2403.5594	2420.4474	---	---
		2437	16.868	2428.6200	2445.4880	---	---
		2462	16.854	2453.6507	2470.5047	---	---
11N20SISO	Ant1	2412	17.911	2403.0745	2420.9855	---	---
		2437	17.928	2428.0225	2445.9505	---	---
		2462	17.884	2453.1021	2470.9861	---	---
11N40SISO	Ant1	2422	36.064	2404.1264	2440.1904	---	---
		2437	36.073	2419.1129	2455.1859	---	---
		2452	36.037	2434.1417	2470.1787	---	---

Test Graphs

11B_Ant1_2412



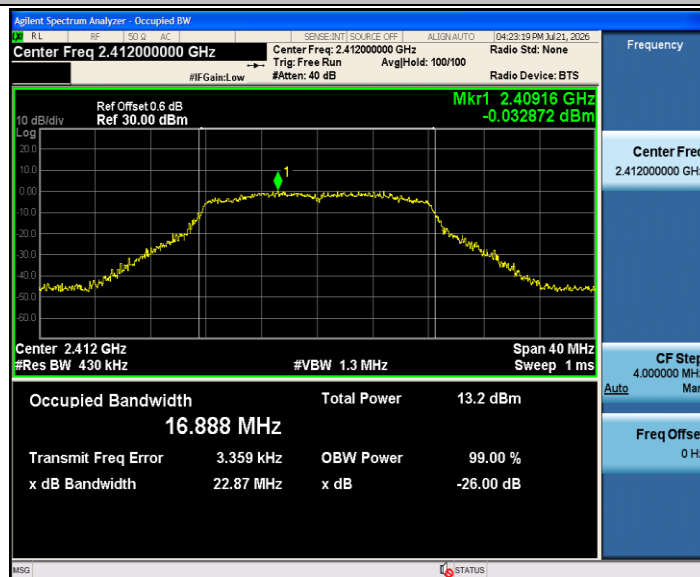
11B_Ant1_2437



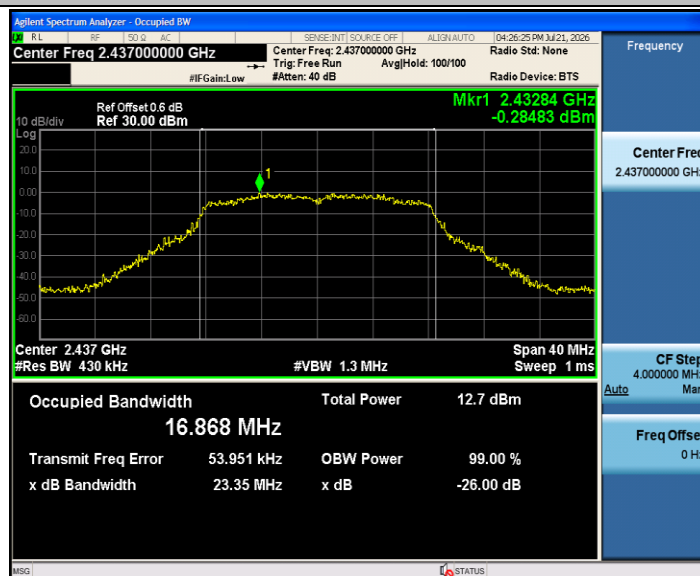
11B_Ant1_2462



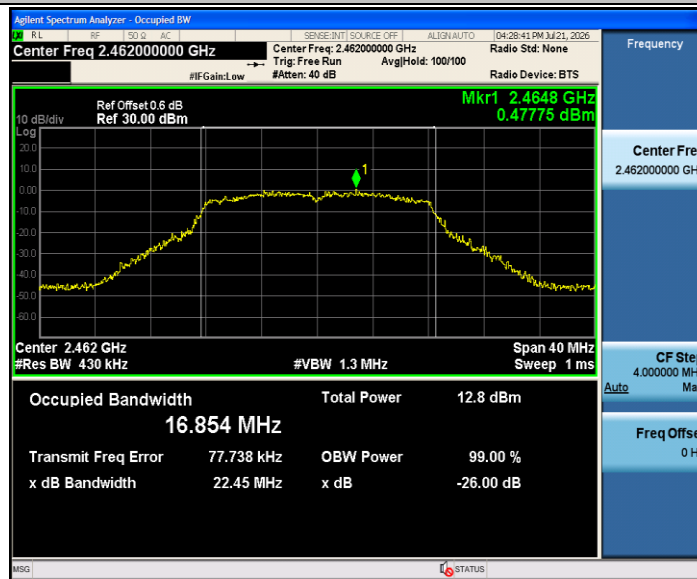
11G_Ant1_2412



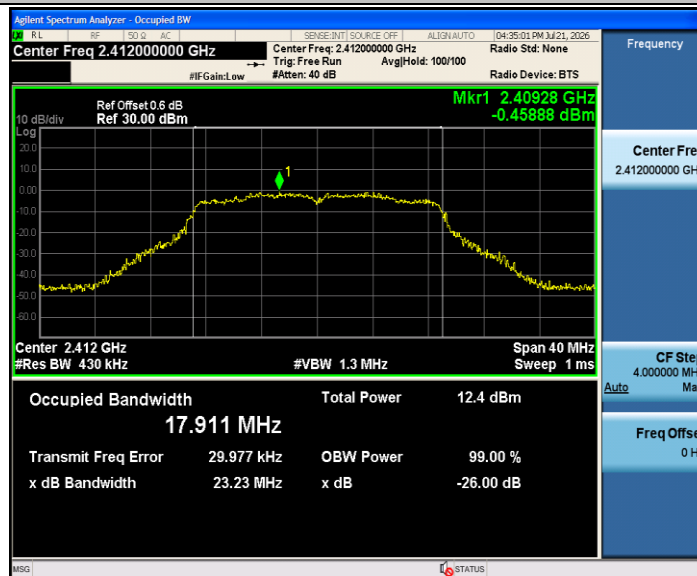
11G_Ant1_2437



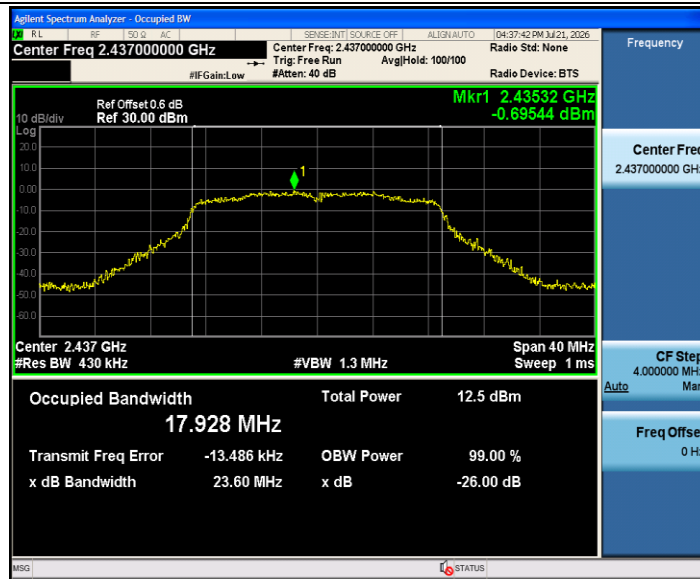
11G_Ant1_2462



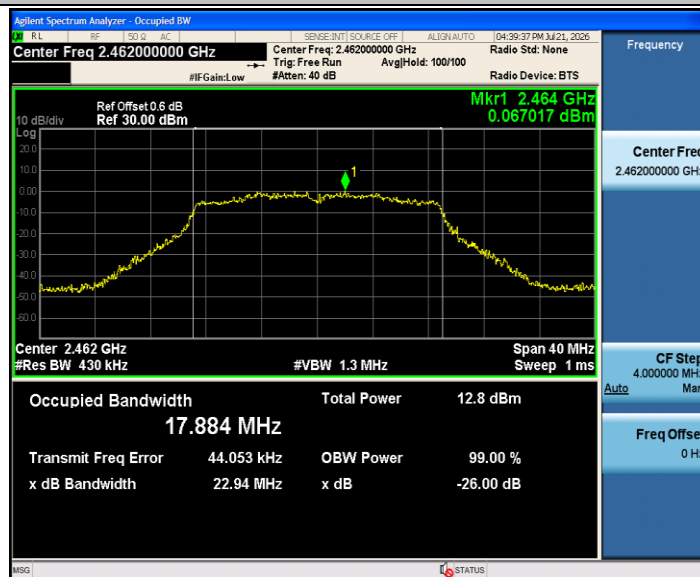
11N20SISO_Ant1_2412



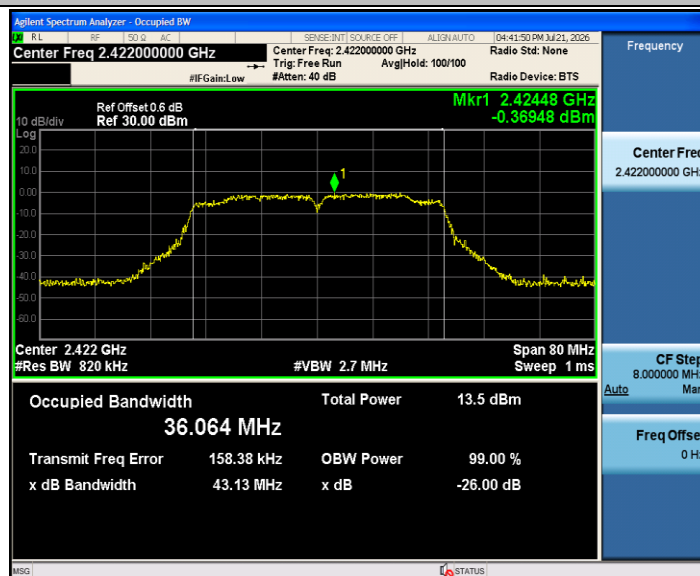
11N20SISO_Ant1_2437



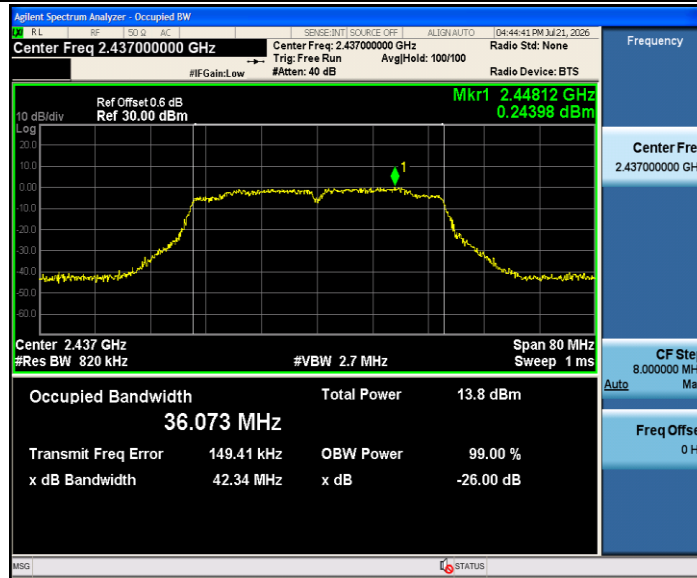
11N20SISO_Ant1_2462



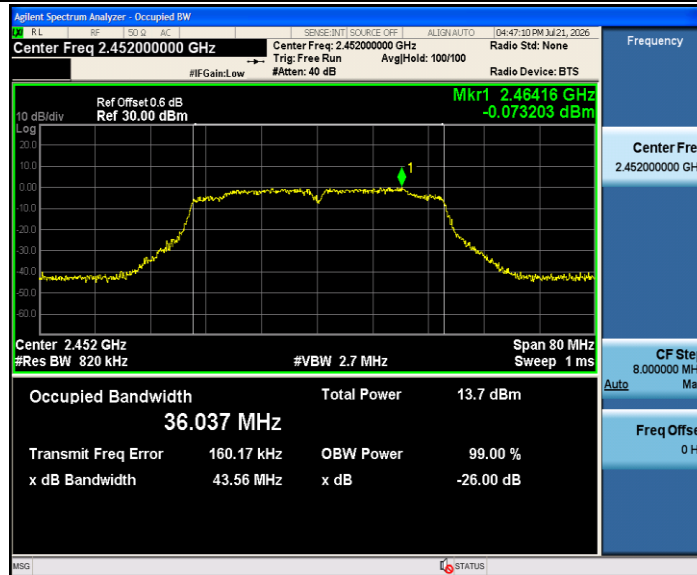
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[M Hz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.42	≤30.00	PASS
		2437	13.62	≤30.00	PASS
		2462	13.80	≤30.00	PASS
11G	Ant1	2412	14.06	≤30.00	PASS
		2437	13.61	≤30.00	PASS
		2462	13.89	≤30.00	PASS
11N20SISO	Ant1	2412	13.21	≤30.00	PASS
		2437	13.45	≤30.00	PASS
		2462	13.58	≤30.00	PASS
11N40SISO	Ant1	2422	13.52	≤30.00	PASS
		2437	13.95	≤30.00	PASS
		2452	13.81	≤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	-11.85	≤8.00	PASS
		2437	-11.70	≤8.00	PASS
		2462	-12.52	≤8.00	PASS
11G	Ant1	2412	-17.70	≤8.00	PASS
		2437	-17.97	≤8.00	PASS
		2462	-17.71	≤8.00	PASS
11N20SISO	Ant1	2412	-18.47	≤8.00	PASS
		2437	-17.84	≤8.00	PASS
		2462	-17.24	≤8.00	PASS
11N40SISO	Ant1	2422	-20.62	≤8.00	PASS
		2437	-20.72	≤8.00	PASS
		2452	-20.87	≤8.00	PASS

Test Graphs

11B_Ant1_2412



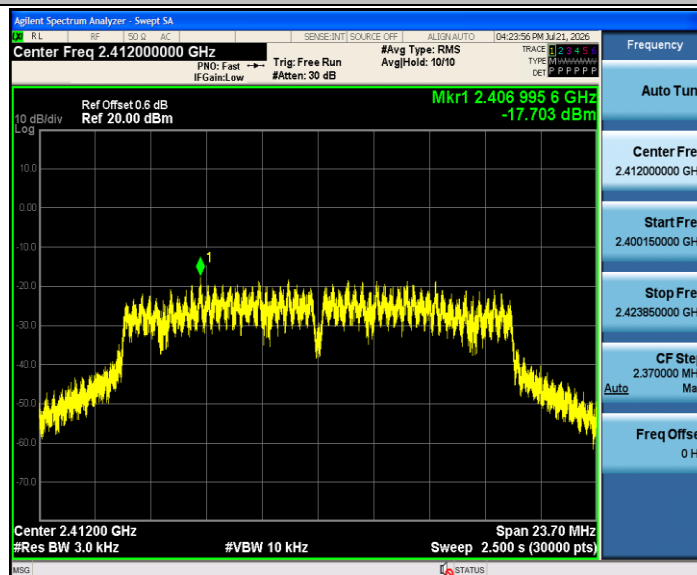
11B_Ant1_2437



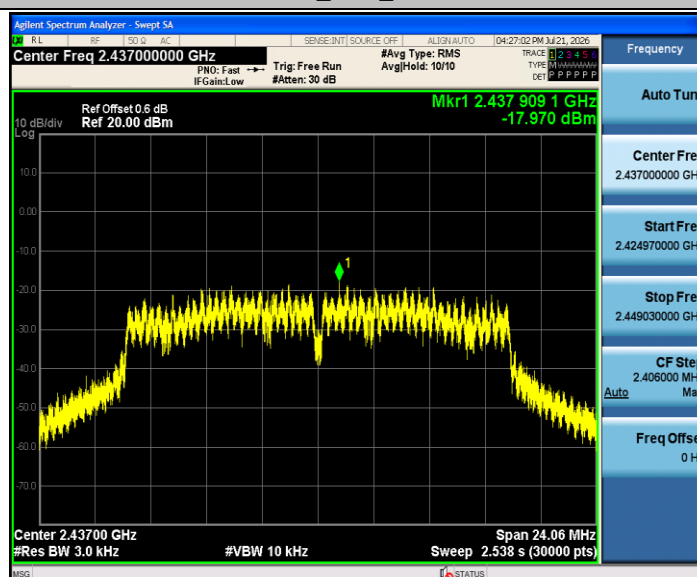
11B_Ant1_2462



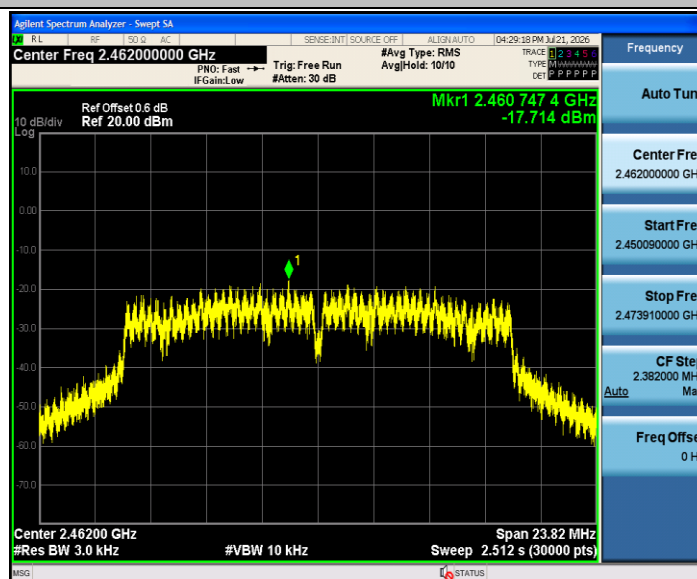
11G_Ant1_2412



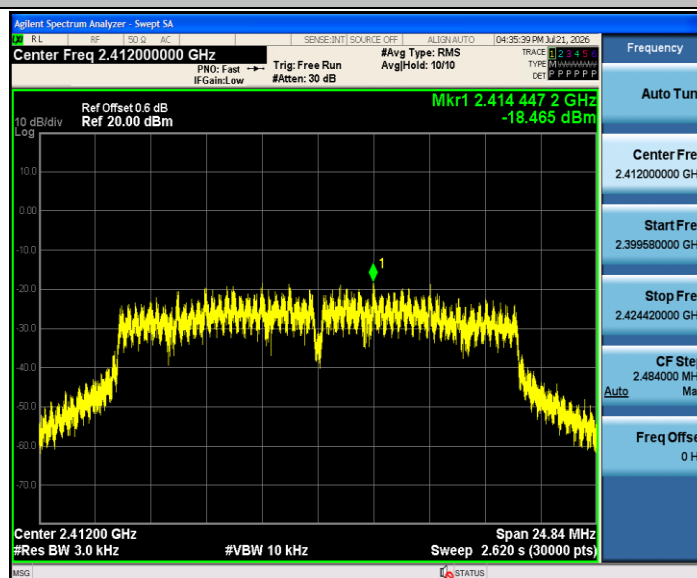
11G_Ant1_2437



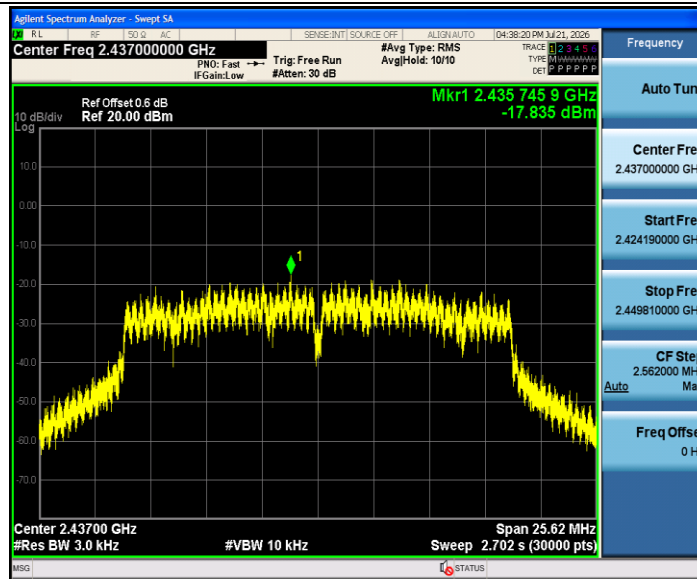
11G_Ant1_2462



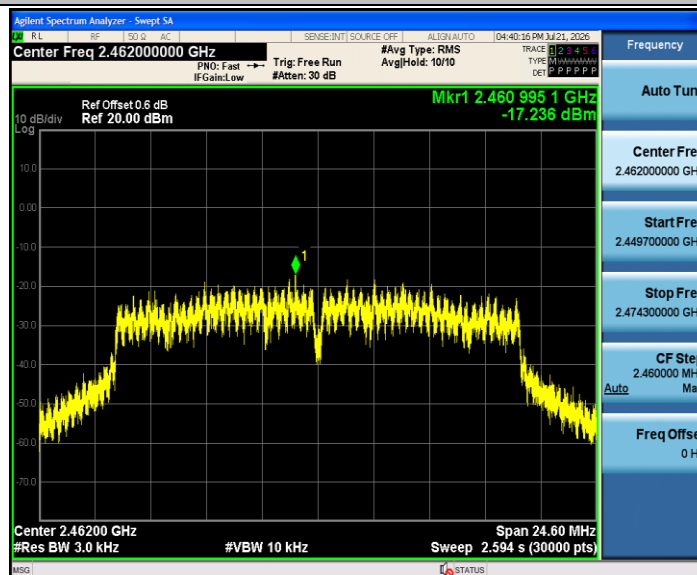
11N20SISO_Ant1_2412



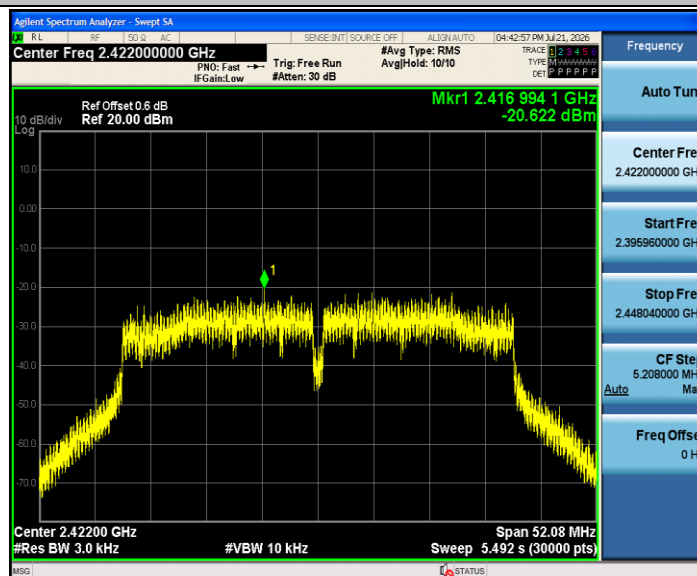
11N20SISO_Ant1_2437



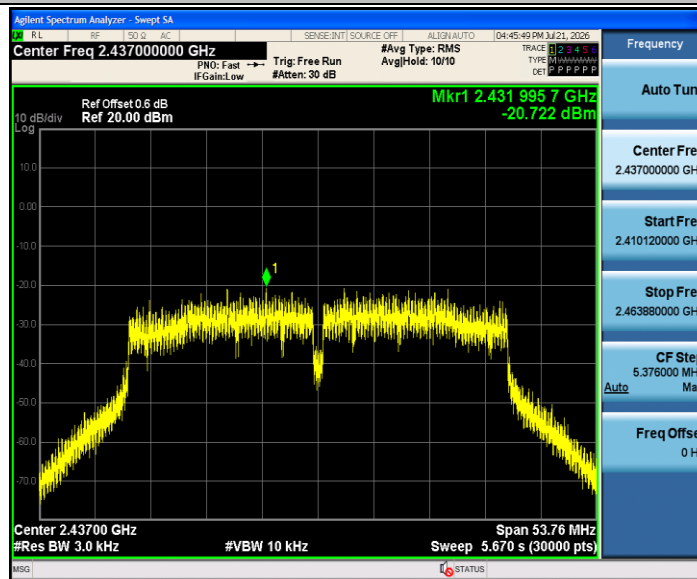
11N20SISO_Ant1_2462



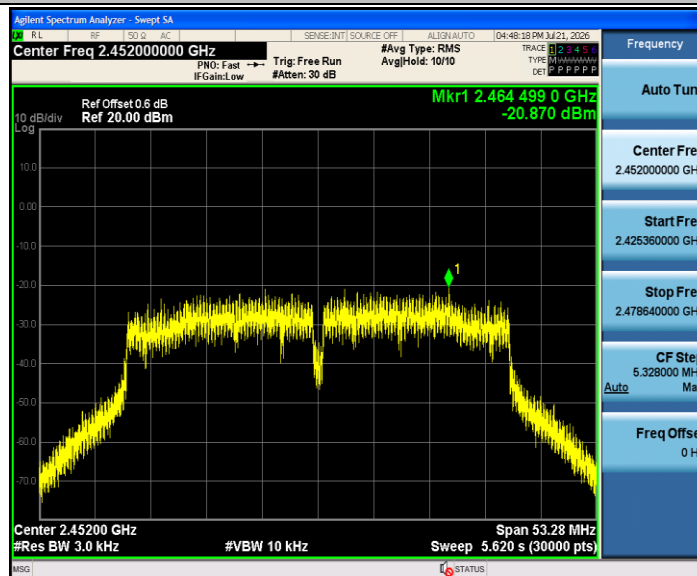
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



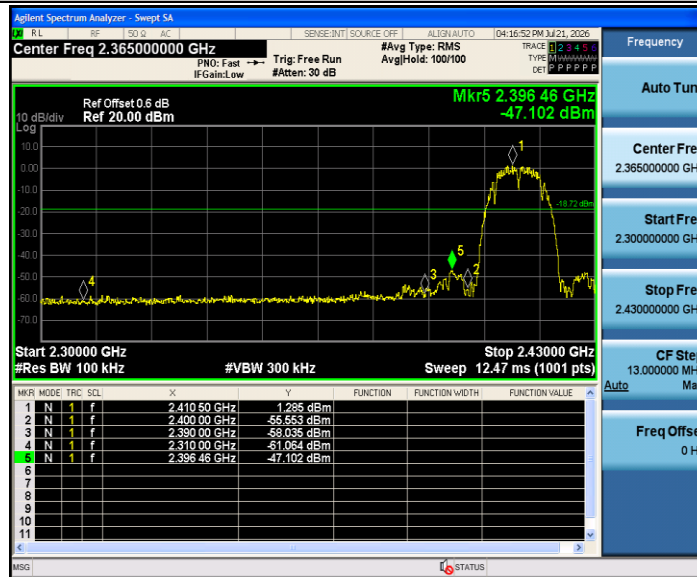
Appendix E: Band edge measurements

Test Result

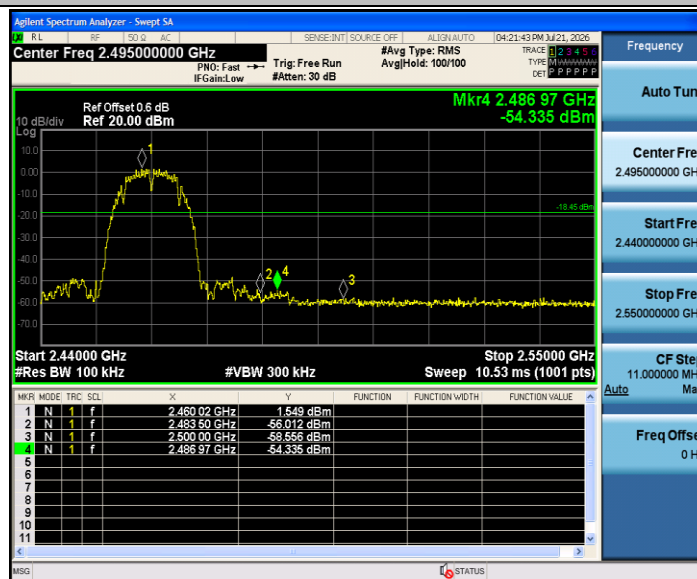
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.29	-47.1	≤-18.72	PASS
		High	2462	1.55	-54.34	≤-18.45	PASS
11G	Ant1	Low	2412	-2.38	-34.79	≤-22.38	PASS
		High	2462	-2.53	-57.79	≤-22.53	PASS
11N20SISO	Ant1	Low	2412	-3.05	-34.3	≤-23.05	PASS
		High	2462	-2.60	-58.11	≤-22.6	PASS
11N40SISO	Ant1	Low	2422	-6.17	-34.49	≤-26.17	PASS
		High	2452	-5.89	-55.22	≤-25.89	PASS

Test Graphs

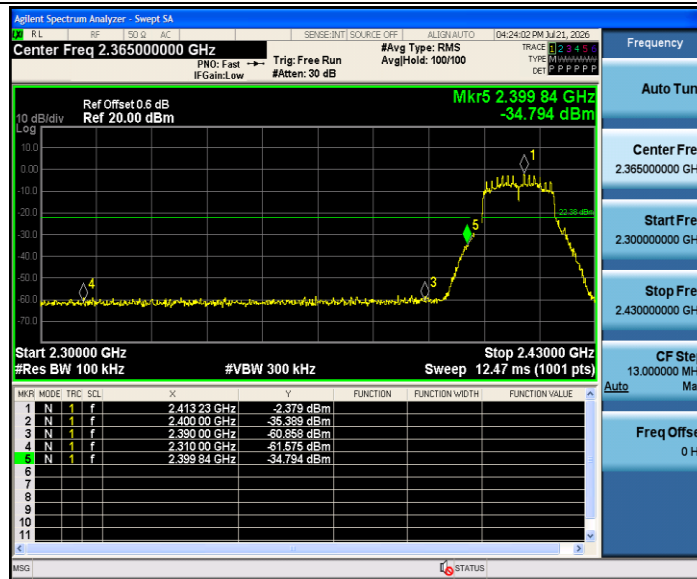
11B_Ant1_Low_2412



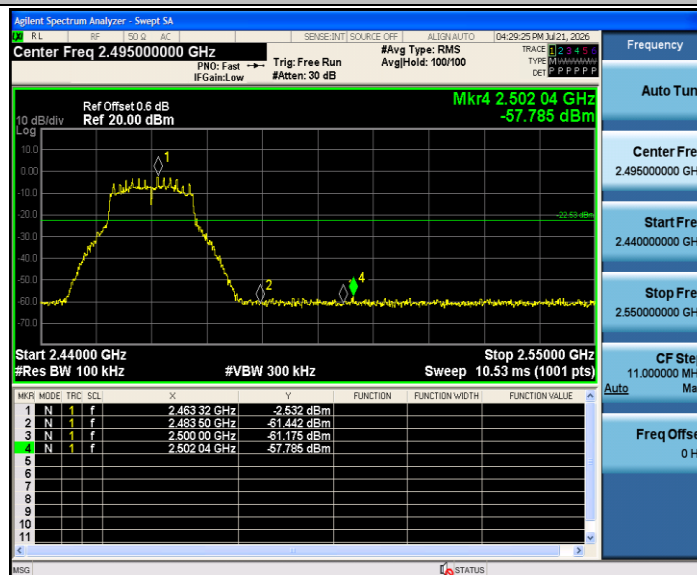
11B_Ant1_High_2462



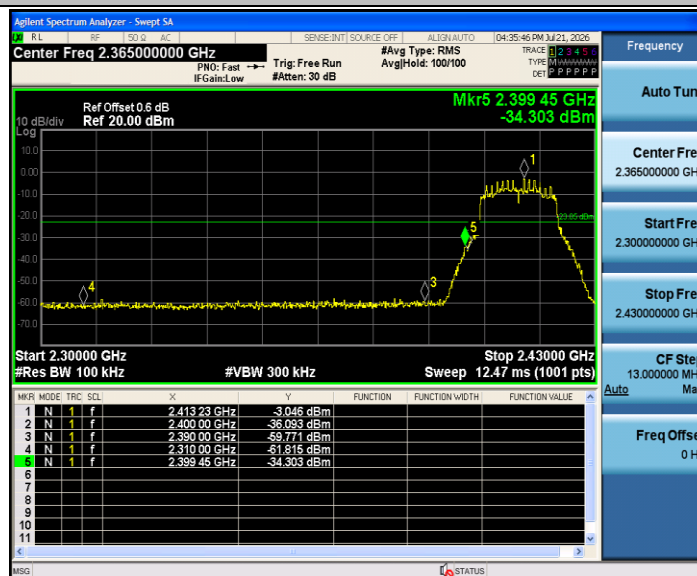
11G_Ant1_Low_2412



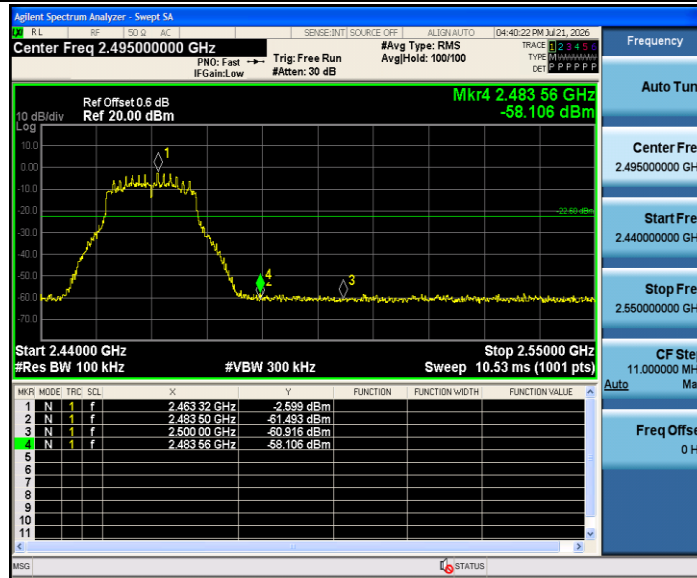
11G_Ant1_High_2462



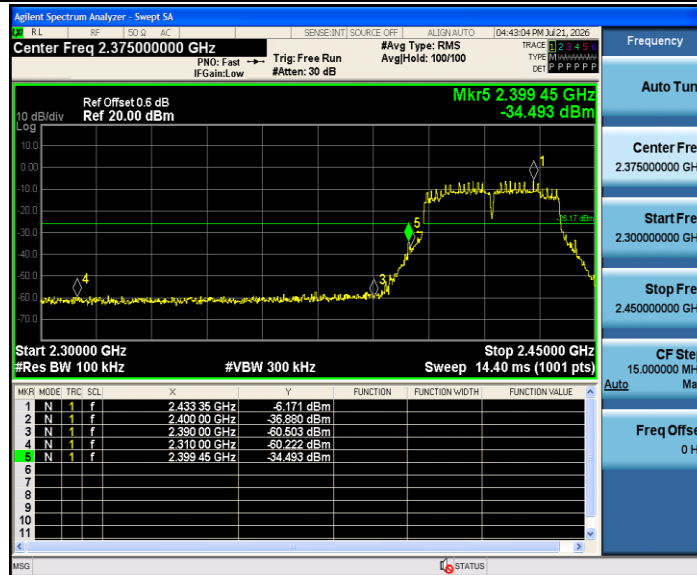
11N20SISO_Ant1_Low_2412



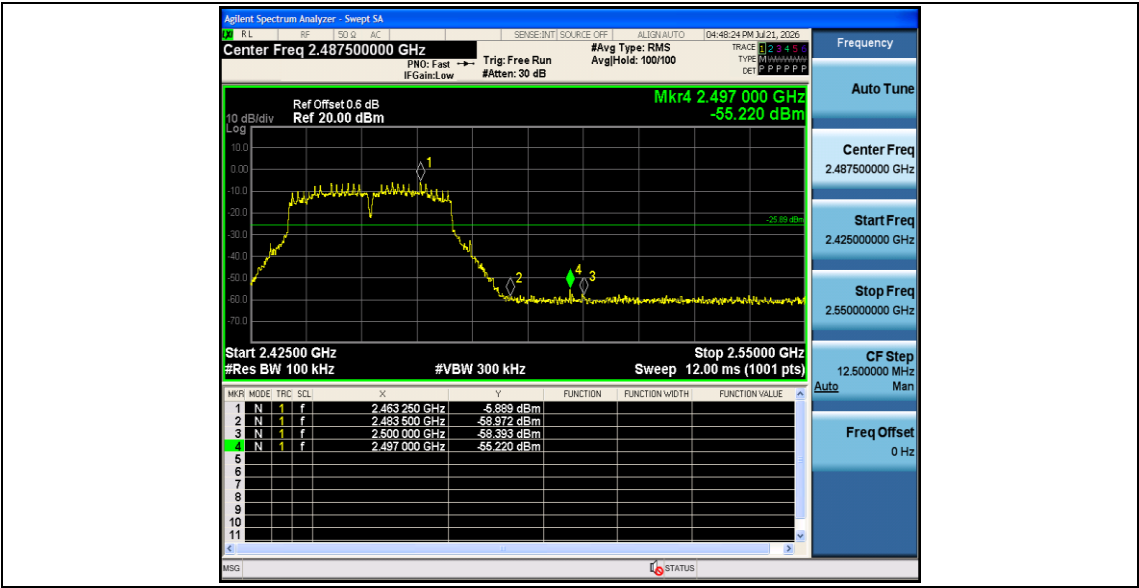
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

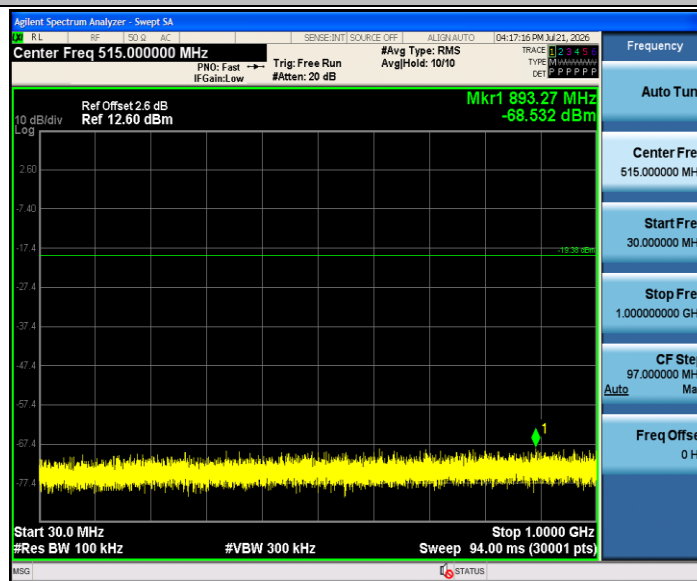
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-68.53	≤-19.38	PASS
			1000~26500	0.62	-45.31	≤-19.38	PASS
		2437	Reference	0.75	0.75	---	PASS
			30~1000	0.75	-68.04	≤-19.25	PASS
			1000~26500	0.75	-46.07	≤-19.25	PASS
		2462	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-67.84	≤-19.95	PASS
			1000~26500	0.05	-46.76	≤-19.95	PASS
11G	Ant1	2412	Reference	-3.91	-3.91	---	PASS
			30~1000	-3.91	-67.85	≤-23.91	PASS
			1000~26500	-3.91	-46.37	≤-23.91	PASS
		2437	Reference	-3.59	-3.59	---	PASS
			30~1000	-3.59	-68.21	≤-23.59	PASS
			1000~26500	-3.59	-46.83	≤-23.59	PASS
		2462	Reference	-2.56	-2.56	---	PASS
			30~1000	-2.56	-67.88	≤-22.56	PASS
			1000~26500	-2.56	-46.43	≤-22.56	PASS
11N20SISO	Ant1	2412	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-68.36	≤-23.56	PASS
			1000~26500	-3.56	-46.42	≤-23.56	PASS
		2437	Reference	-2.92	-2.92	---	PASS
			30~1000	-2.92	-69.35	≤-22.92	PASS
			1000~26500	-2.92	-46.84	≤-22.92	PASS
		2462	Reference	-3.72	-3.72	---	PASS
			30~1000	-3.72	-69.2	≤-23.72	PASS
			1000~26500	-3.72	-46.26	≤-23.72	PASS
11N40SISO	Ant1	2422	Reference	-6.15	-6.15	---	PASS
			30~1000	-6.15	-69.51	≤-26.15	PASS
			1000~26500	-6.15	-46.7	≤-26.15	PASS
		2437	Reference	-6.34	-6.34	---	PASS
			30~1000	-6.34	-68.44	≤-26.34	PASS
			1000~26500	-6.34	-46.89	≤-26.34	PASS
		2452	Reference	-5.98	-5.98	---	PASS
			30~1000	-5.98	-68.49	≤-25.98	PASS
			1000~26500	-5.98	-46.84	≤-25.98	PASS

Test Graphs

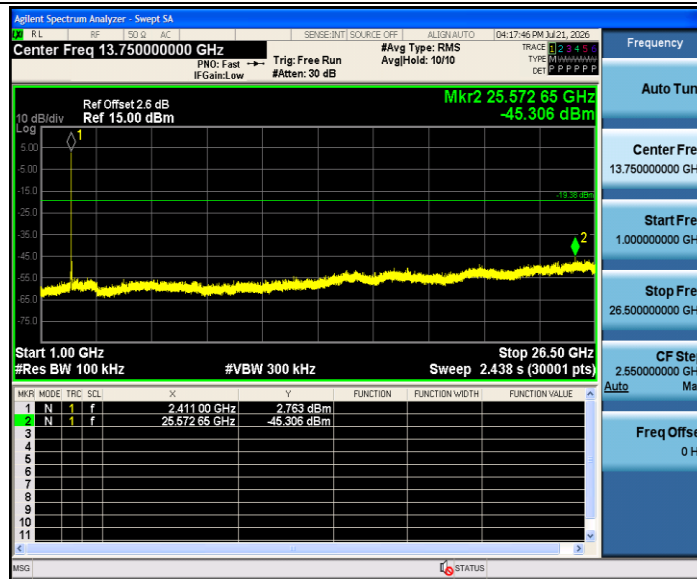
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



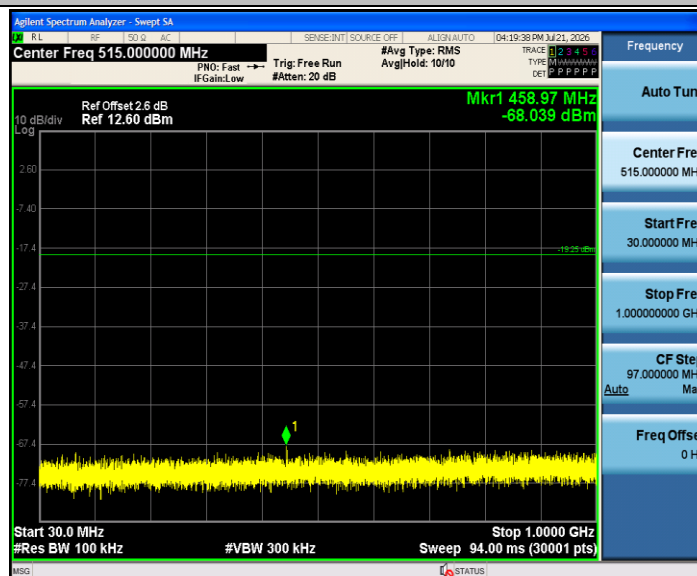
11B_Ant1_2412_1000~26500



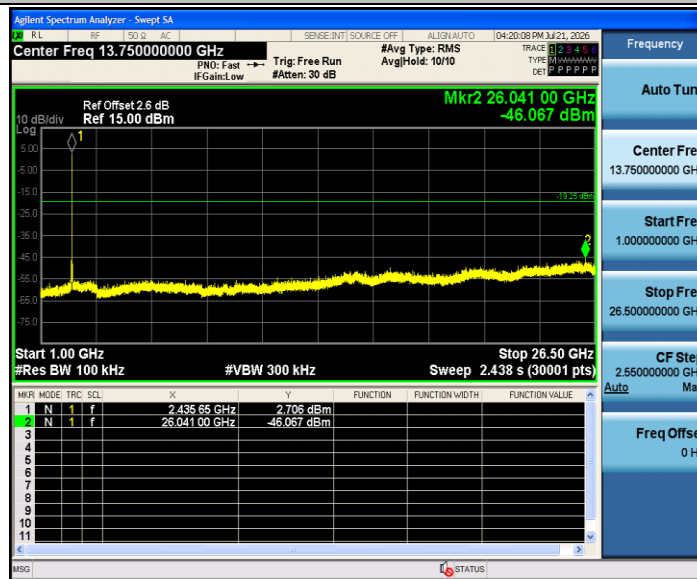
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



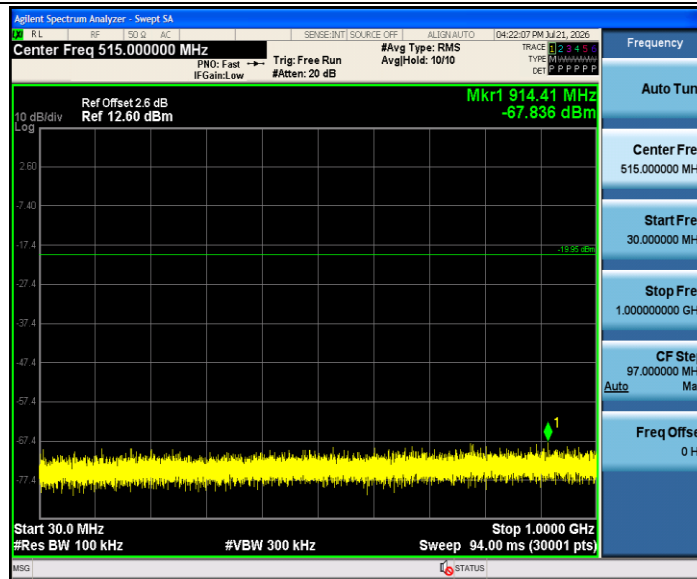
11B_Ant1_2437_1000~26500



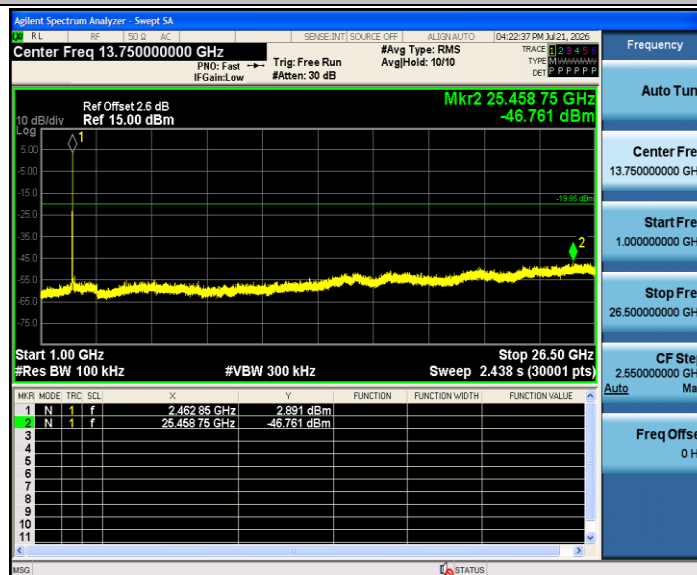
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



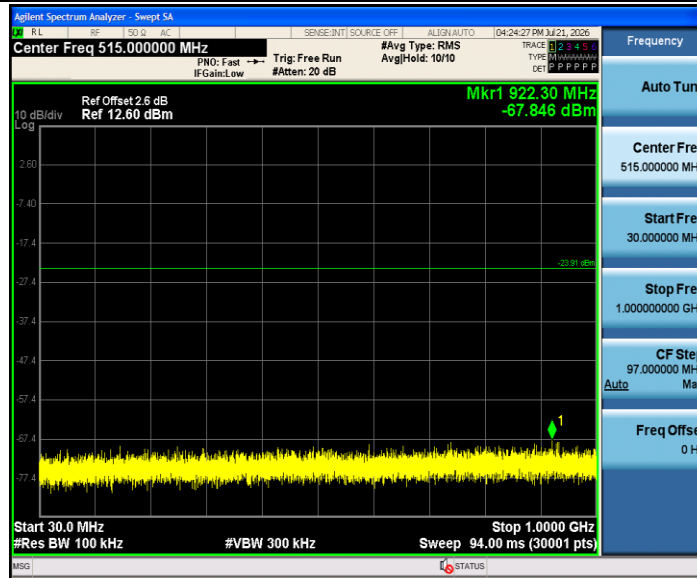
11B_Ant1_2462_1000~26500



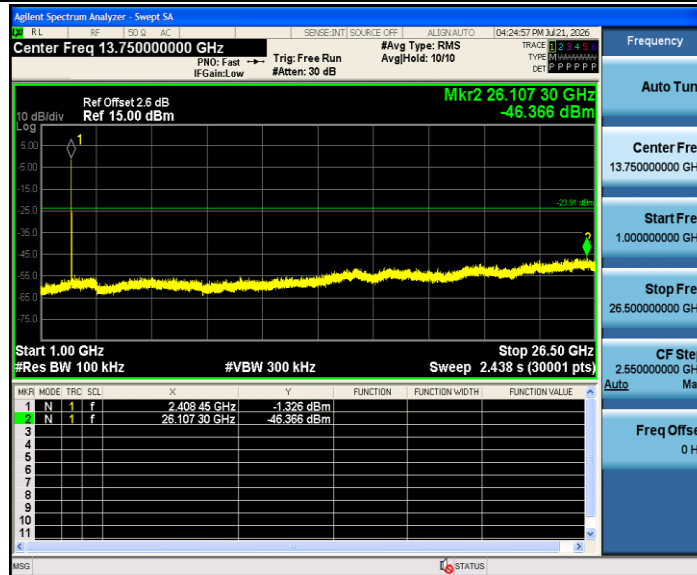
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



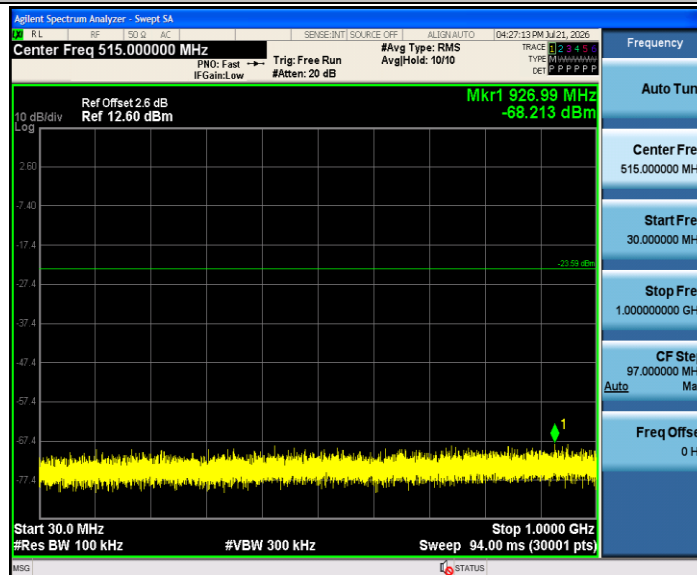
11G_Ant1_2412_1000~26500



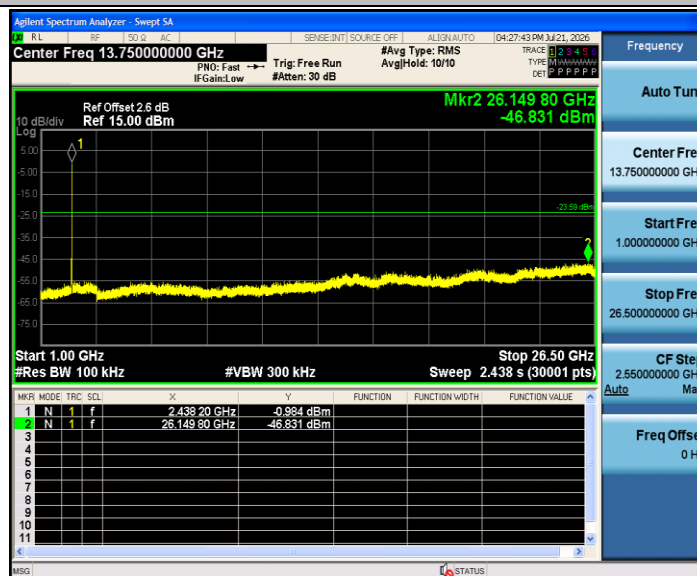
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



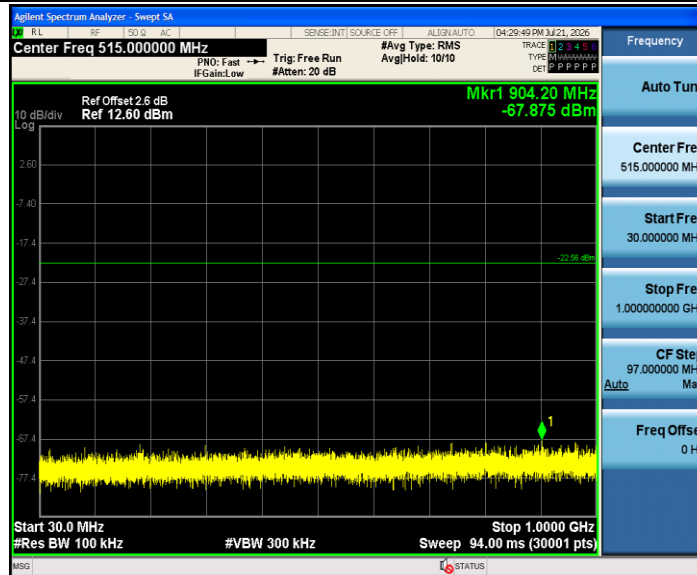
11G_Ant1_2437_1000~26500



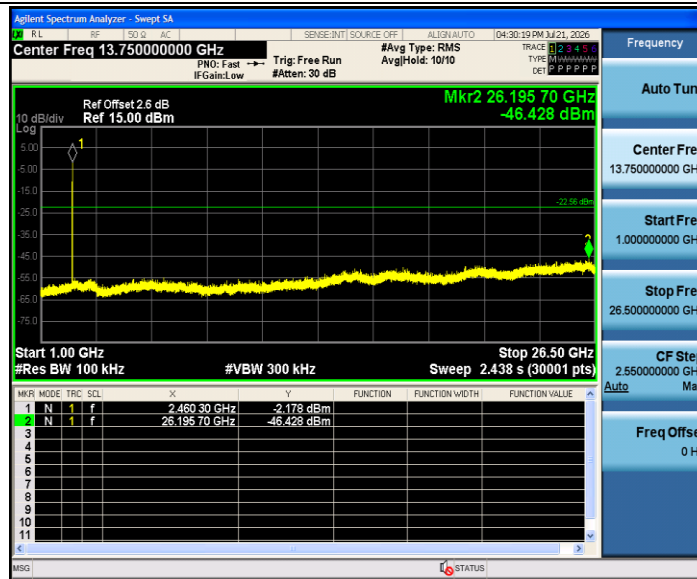
11G_Ant1_2462_0~Reference



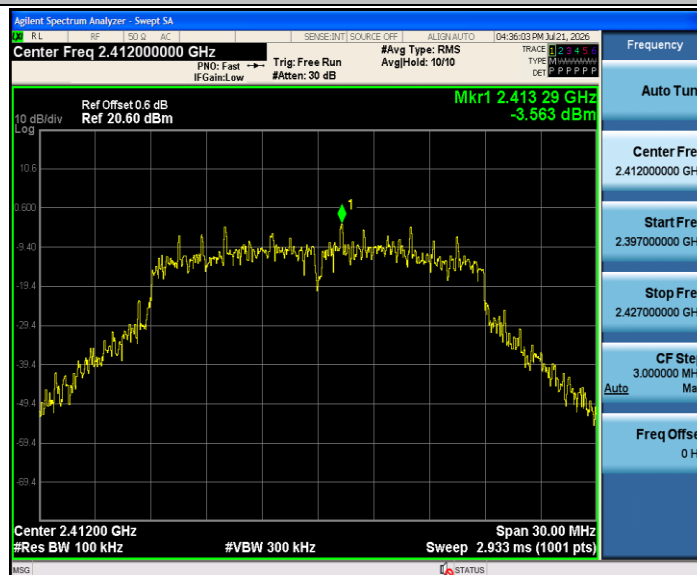
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

