

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BXXD-NST-IPC

Company : Shenzhen Enster Electronics Co., Ltd.

EUT : CCTV CAMERA

Model Number : NST-IPC

Report No. : CTA26080701001

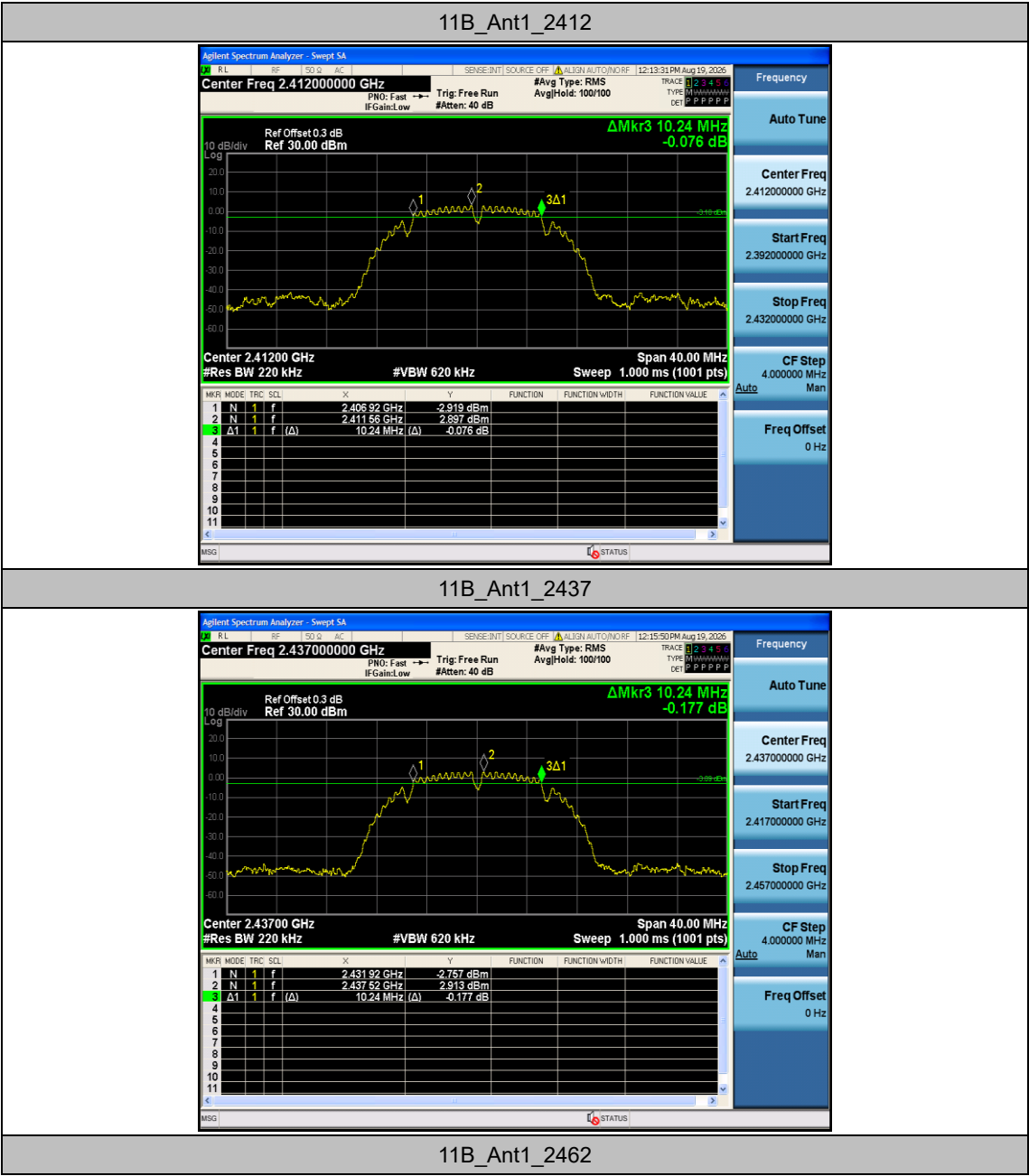
Reviewed By : Eric Wang

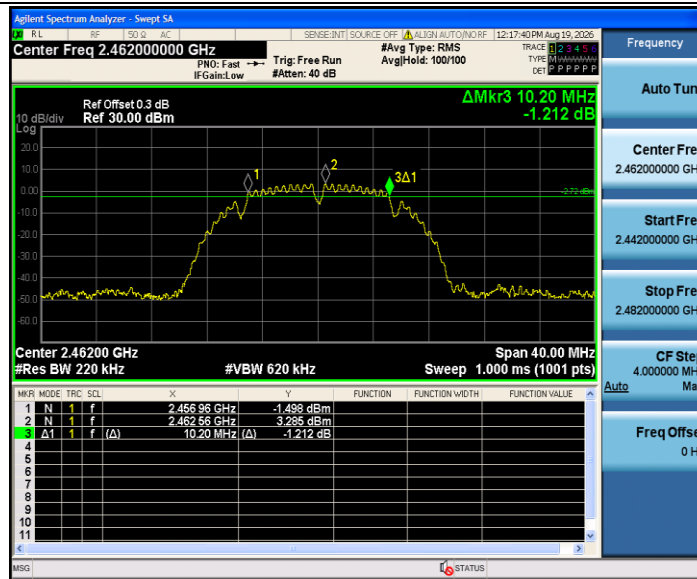
Appendix A: DTS Bandwidth

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	2456.960	2467.160	0.5	PASS
11G	Ant1	2412	15.720	2404.040	2419.760	0.5	PASS
		2437	15.960	2428.920	2444.880	0.5	PASS
		2462	15.800	2454.040	2469.840	0.5	PASS
11N20SISO	Ant1	2412	16.720	2403.720	2420.440	0.5	PASS
		2437	17.000	2428.440	2445.440	0.5	PASS
		2462	16.880	2453.560	2470.440	0.5	PASS
11N40SISO	Ant1	2422	34.320	2405.200	2439.520	0.5	PASS
		2437	34.560	2419.560	2454.120	0.5	PASS
		2452	35.280	2434.800	2470.080	0.5	PASS

Test Graphs





11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



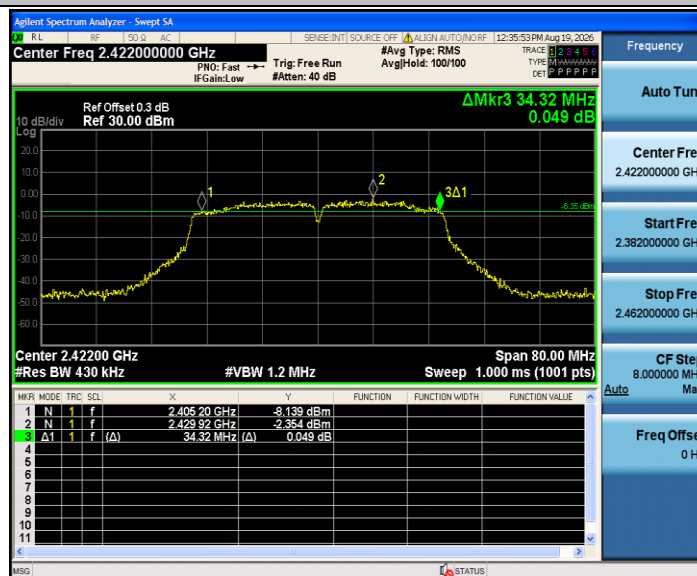
11N20SISO_Ant1_2437



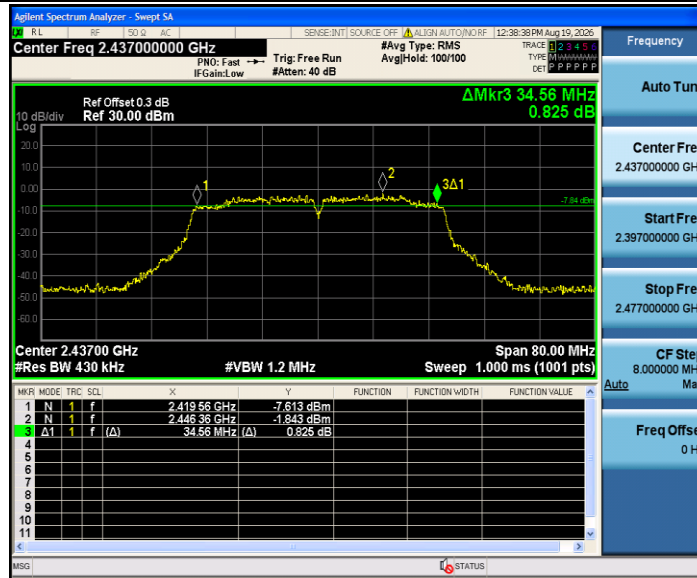
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



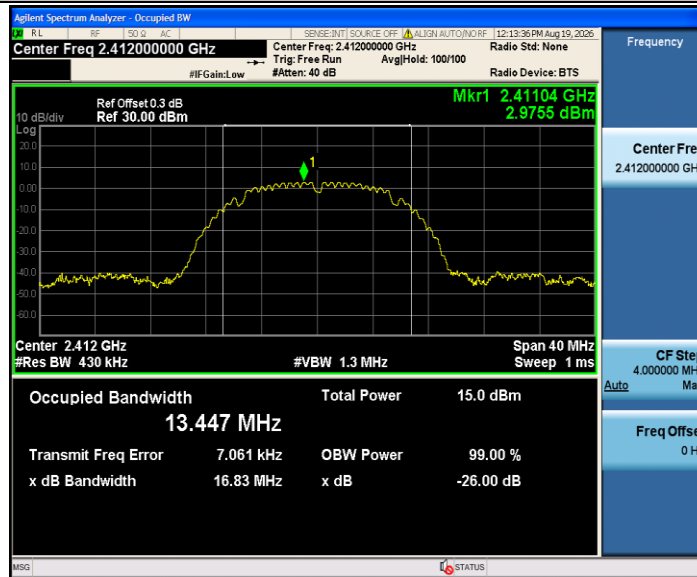
Appendix B: Occupied Channel Bandwidth

Test Result

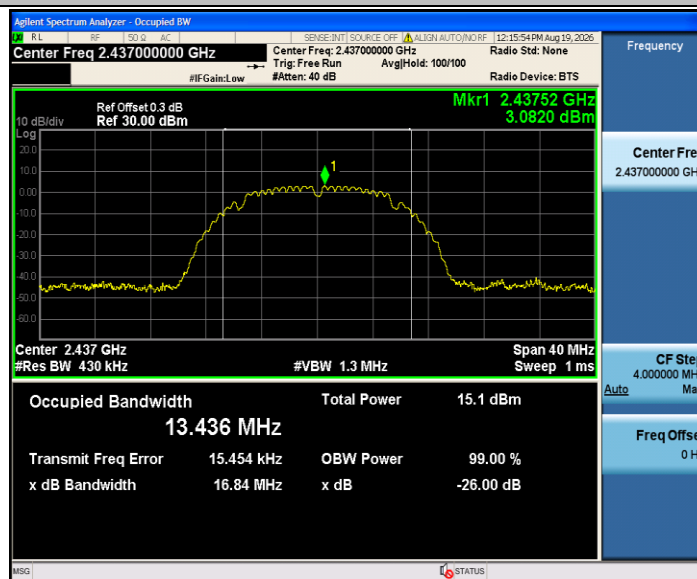
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.447	2405.2836	2418.7306	---	---
		2437	13.436	2430.2975	2443.7335	---	---
		2462	13.422	2455.3140	2468.7360	---	---
11G	Ant1	2412	16.877	2403.5519	2420.4289	---	---
		2437	16.871	2428.6100	2445.4810	---	---
		2462	16.830	2453.6163	2470.4463	---	---
11N20SISO	Ant1	2412	17.800	2403.1085	2420.9085	---	---
		2437	17.863	2428.0891	2445.9521	---	---
		2462	17.884	2453.0990	2470.9830	---	---
11N40SISO	Ant1	2422	36.030	2404.1412	2440.1712	---	---
		2437	36.055	2419.1046	2455.1596	---	---
		2452	36.060	2434.1418	2470.2018	---	---

Test Graphs

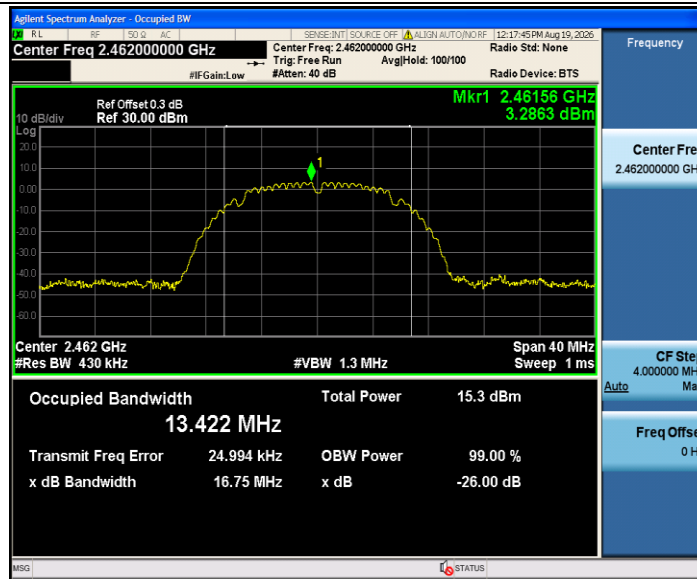
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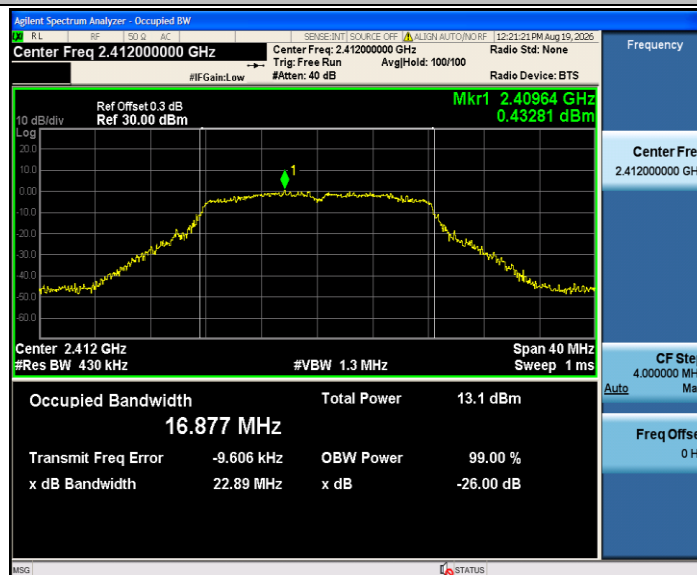
11B_Ant1_2437



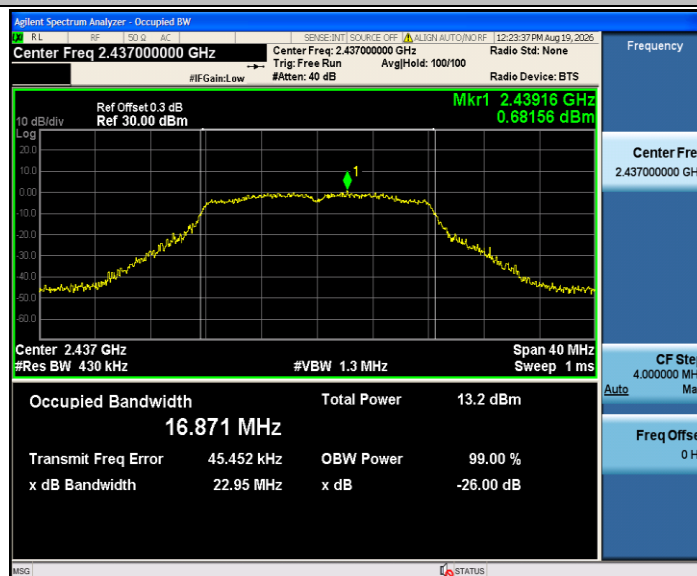
11B_Ant1_2462



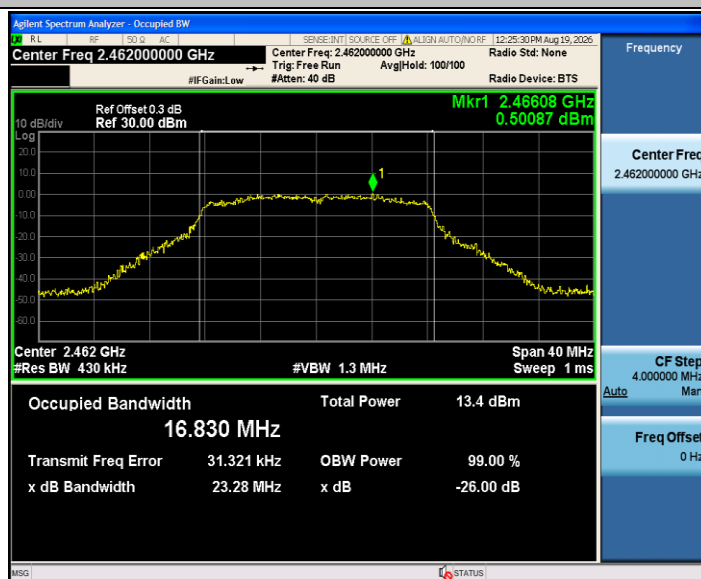
11G_Ant1_2412



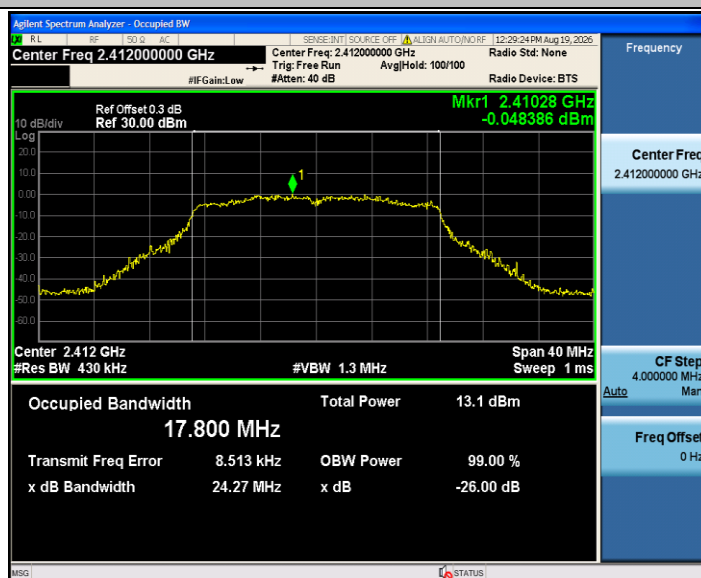
11G_Ant1_2437



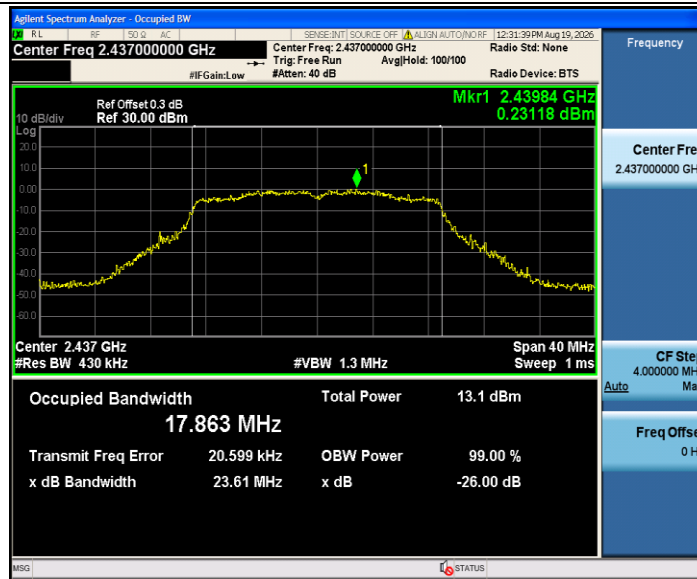
11G_Ant1_2462



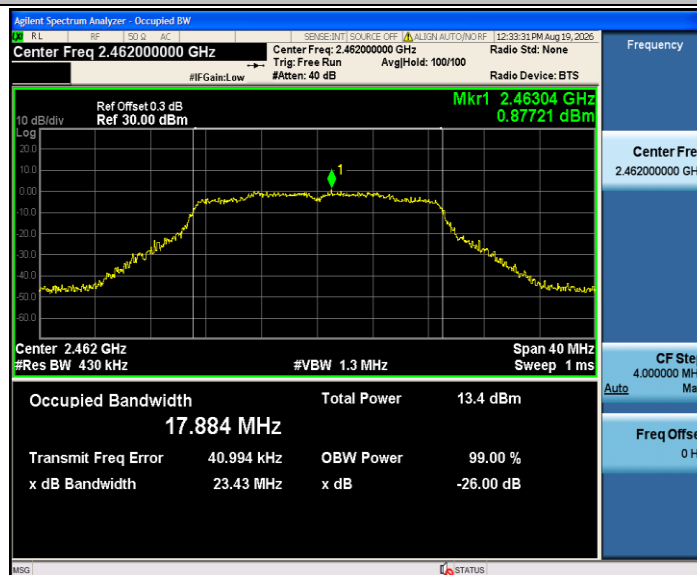
11N20SISO_Ant1_2412



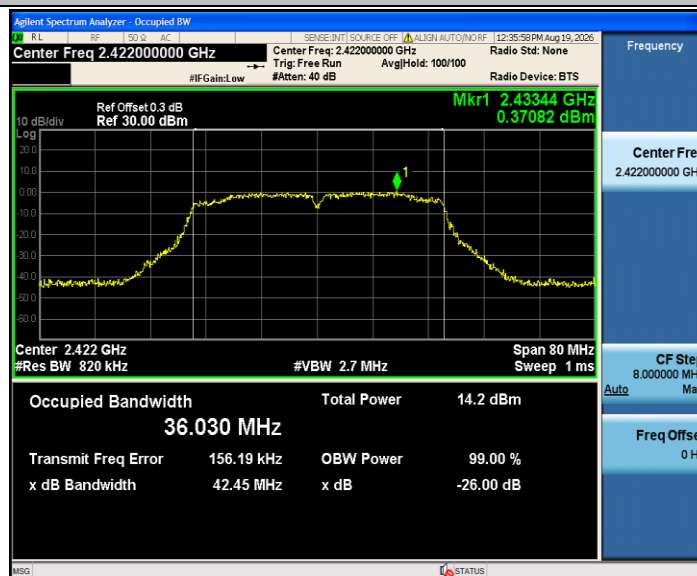
11N20SISO_Ant1_2437



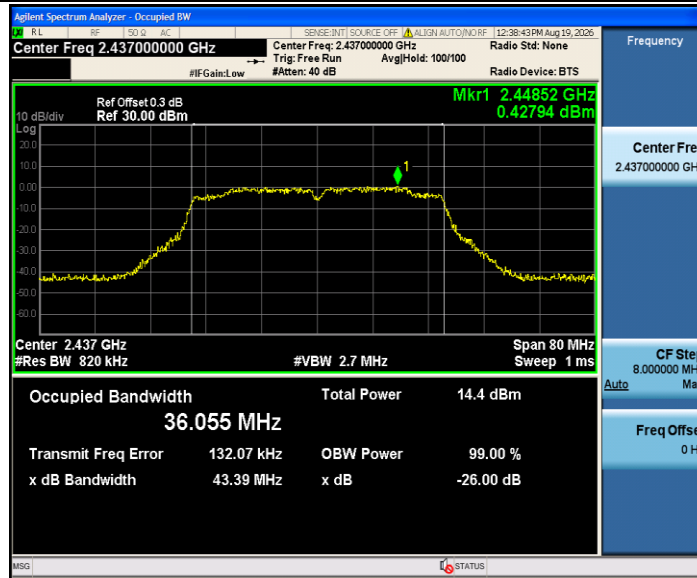
11N20SISO_Ant1_2462



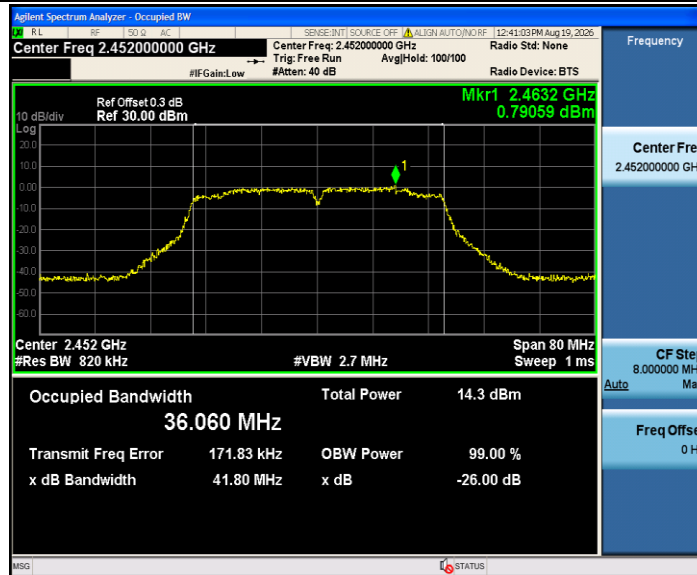
11N40SISO_Ant1_2422



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	14.55	≤30.00	PASS
		2437	14.73	≤30.00	PASS
		2462	14.84	≤30.00	PASS
11G	Ant1	2412	14.09	≤30.00	PASS
		2437	14.09	≤30.00	PASS
		2462	14.31	≤30.00	PASS
11N20SISO	Ant1	2412	13.84	≤30.00	PASS
		2437	14.02	≤30.00	PASS
		2462	14.19	≤30.00	PASS
11N40SISO	Ant1	2422	14.16	≤30.00	PASS
		2437	14.42	≤30.00	PASS
		2452	14.53	≤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	-10.59	≤8.00	PASS
		2437	-11.39	≤8.00	PASS
		2462	-10.25	≤8.00	PASS
11G	Ant1	2412	-16.97	≤8.00	PASS
		2437	-17.21	≤8.00	PASS
		2462	-17.20	≤8.00	PASS
11N20SISO	Ant1	2412	-17.71	≤8.00	PASS
		2437	-17.64	≤8.00	PASS
		2462	-15.47	≤8.00	PASS
11N40SISO	Ant1	2422	-20.28	≤8.00	PASS
		2437	-18.96	≤8.00	PASS
		2452	-20.26	≤8.00	PASS

Test Graphs

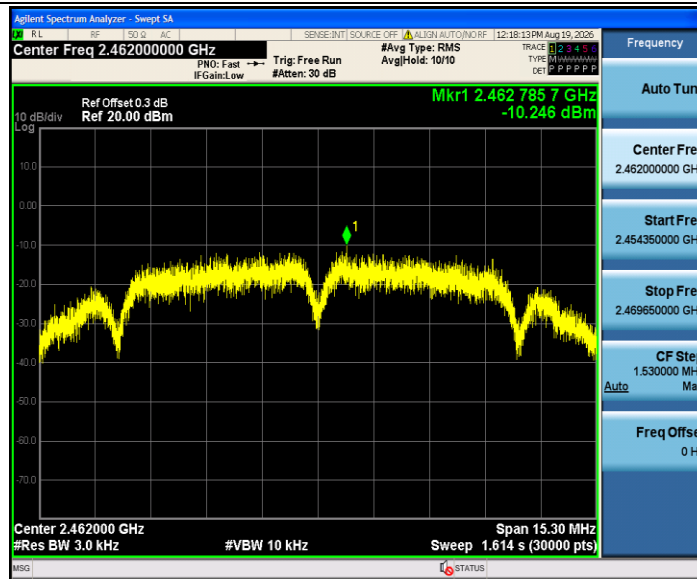
11B_Ant1_2412



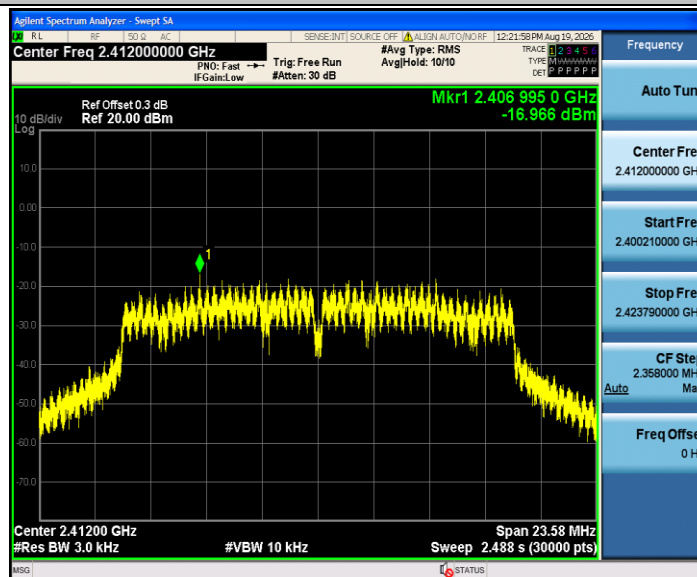
11B_Ant1_2437



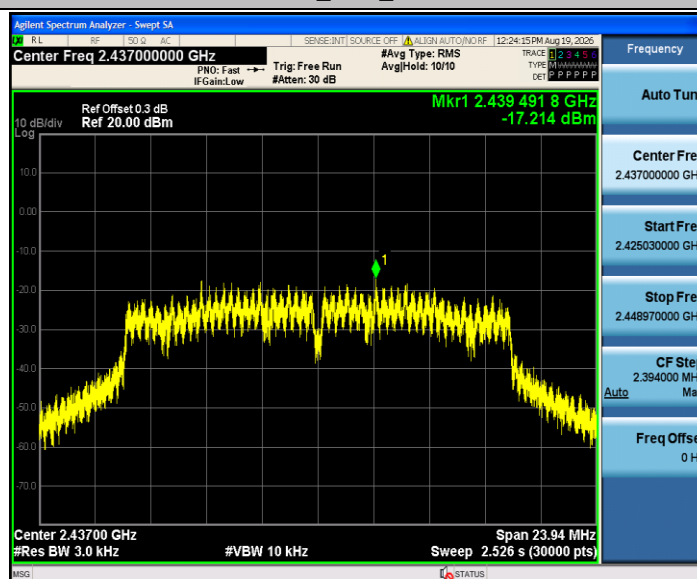
11B_Ant1_2462



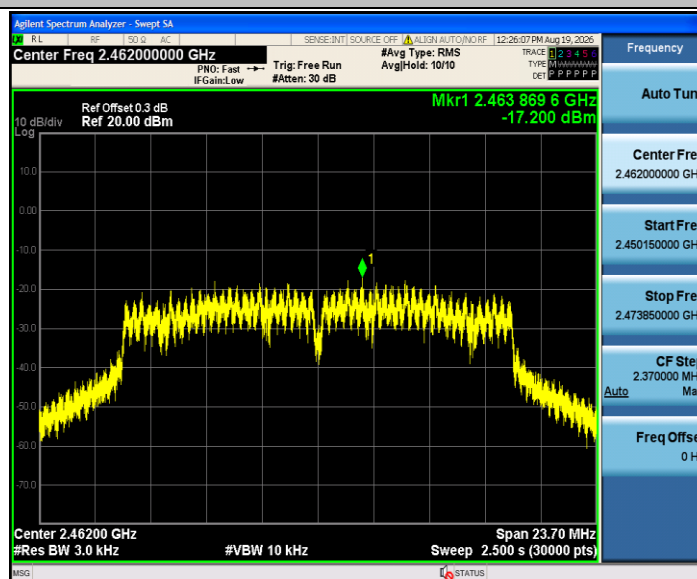
11G_Ant1_2412



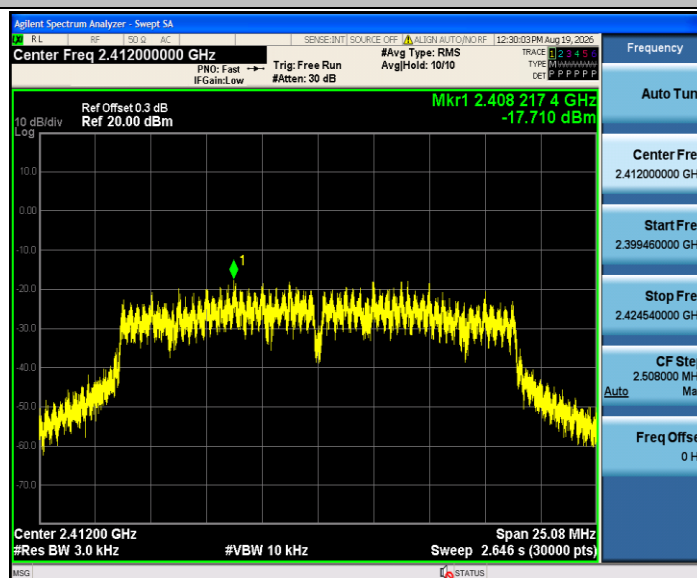
11G_Ant1_2437



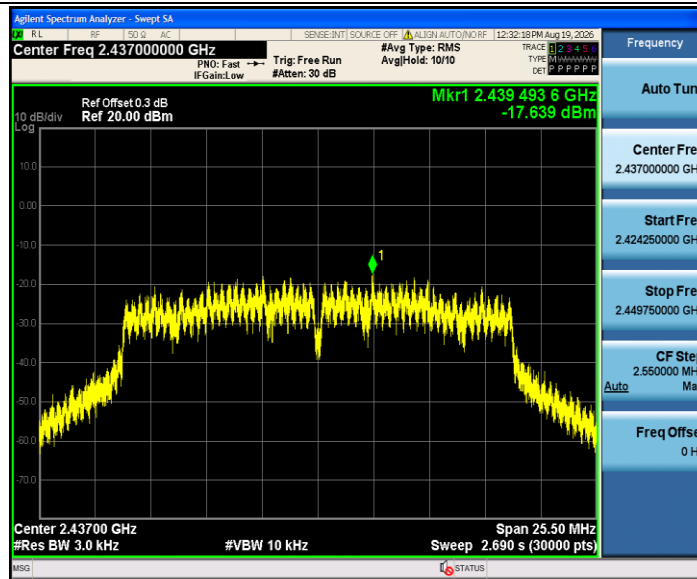
11G_Ant1_2462



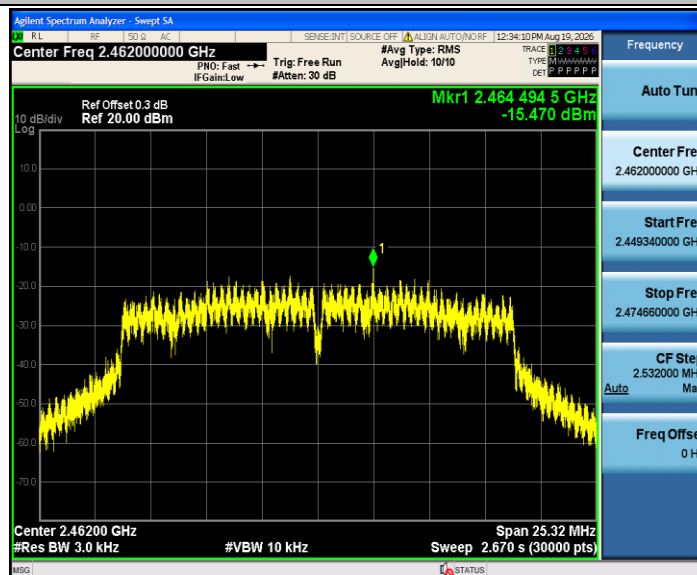
11N20SISO_Ant1_2412



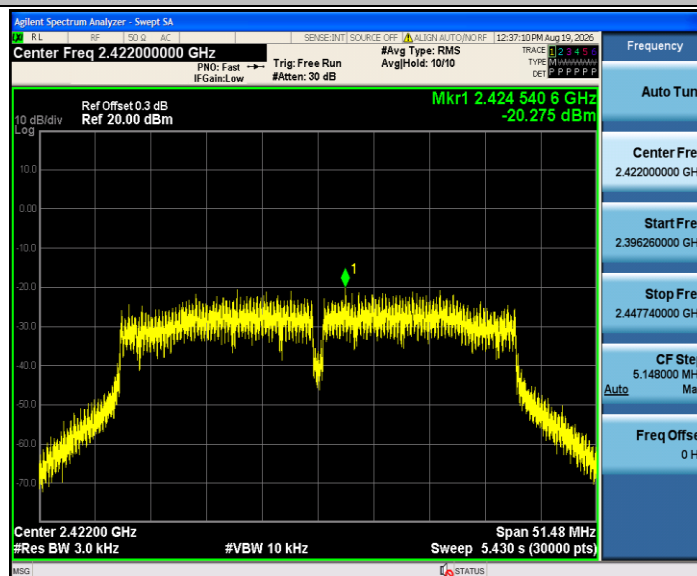
11N20SISO_Ant1_2437



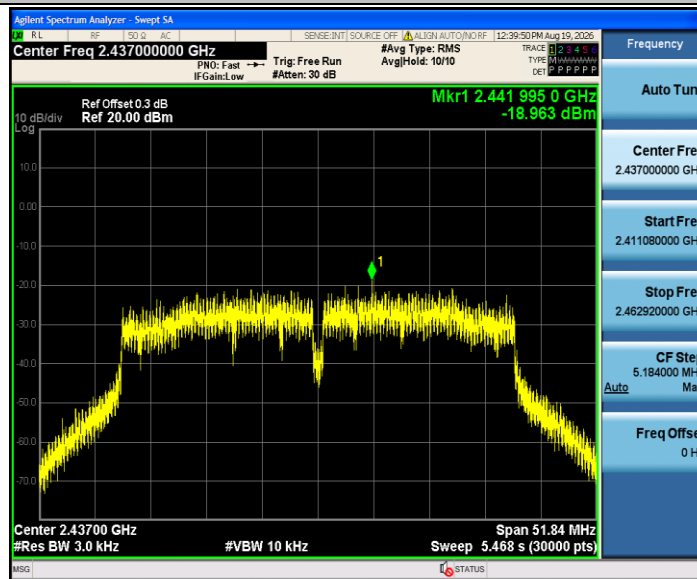
11N20SISO_Ant1_2462



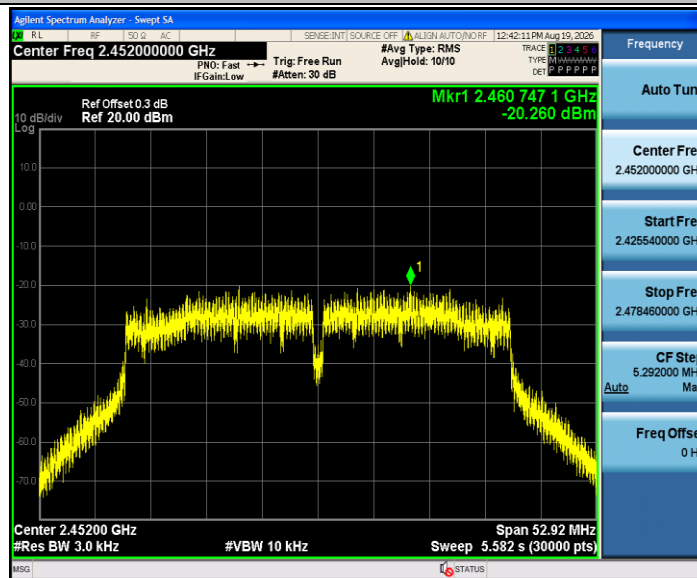
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



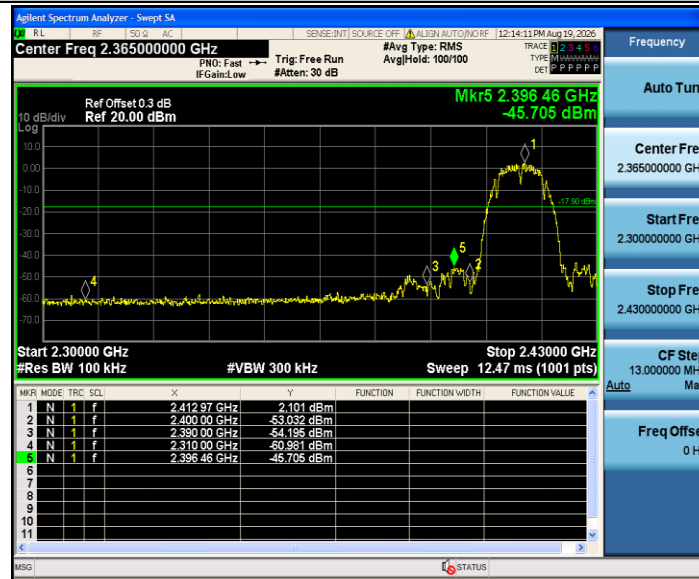
Appendix E: Band edge measurements

Test Result

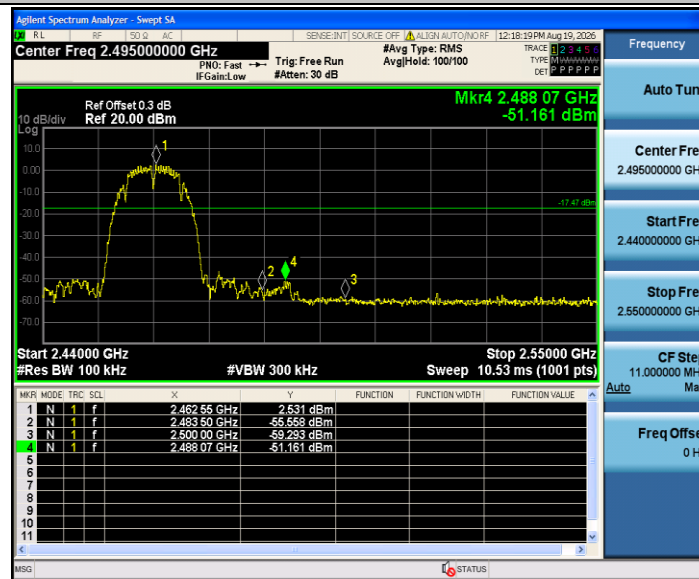
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.10	-45.71	≤-17.9	PASS
		High	2462	2.53	-51.16	≤-17.47	PASS
11G	Ant1	Low	2412	-2.43	-34.11	≤-22.43	PASS
		High	2462	-2.10	-58.25	≤-22.1	PASS
11N20SISO	Ant1	Low	2412	-2.44	-32.38	≤-22.44	PASS
		High	2462	-2.42	-57.8	≤-22.42	PASS
11N40SISO	Ant1	Low	2422	-5.63	-33.96	≤-25.63	PASS
		High	2452	-5.68	-56.86	≤-25.68	PASS

Test Graphs

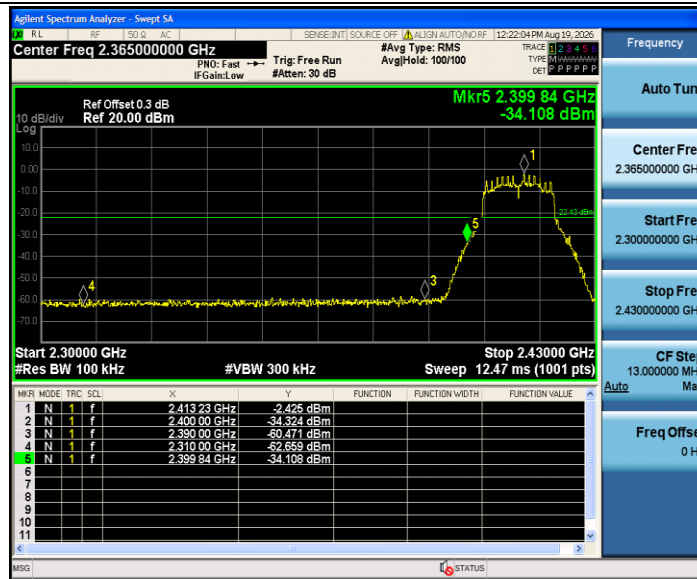
11B_Ant1_Low_2412



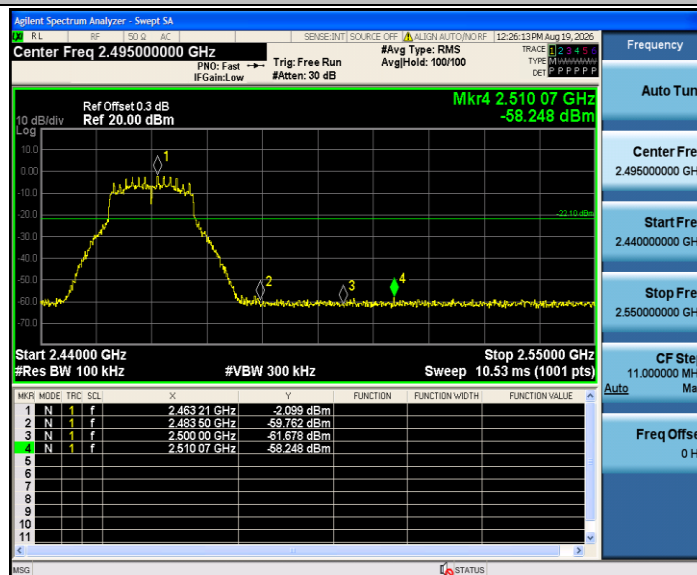
11B_Ant1_High_2462



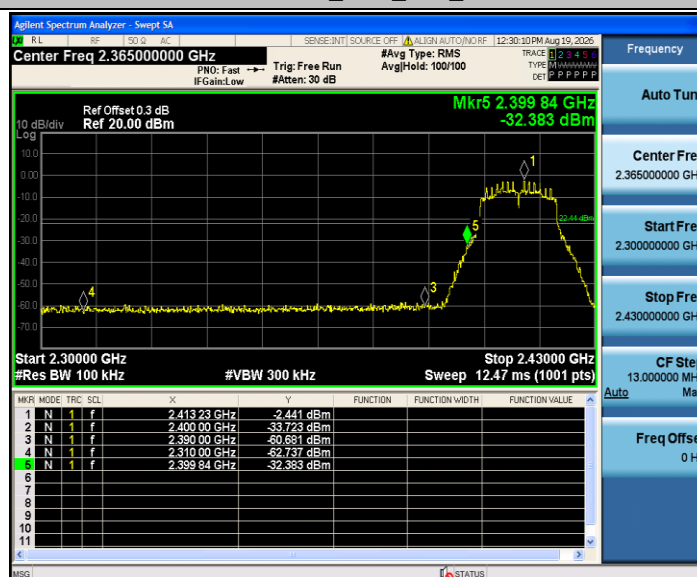
11G_Ant1_Low_2412



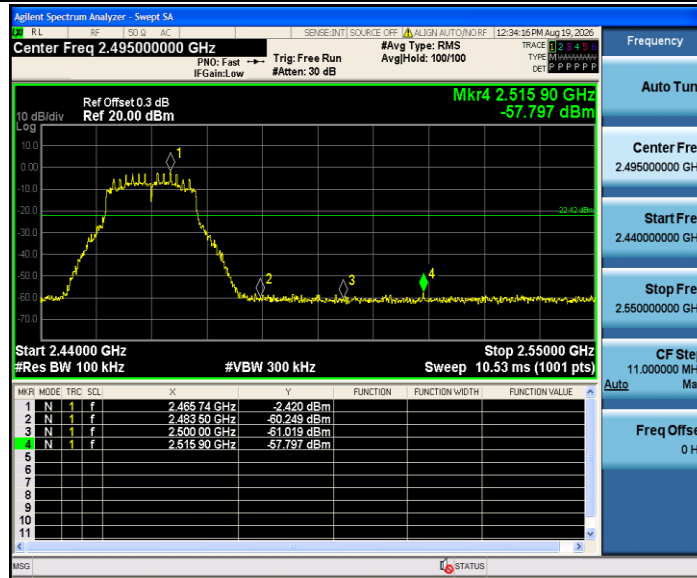
11G_Ant1_High_2462



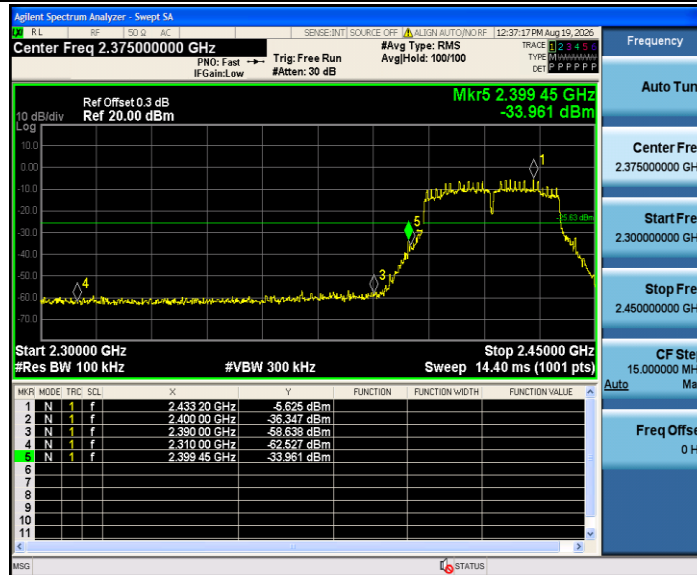
11N20SISO_Ant1_Low_2412



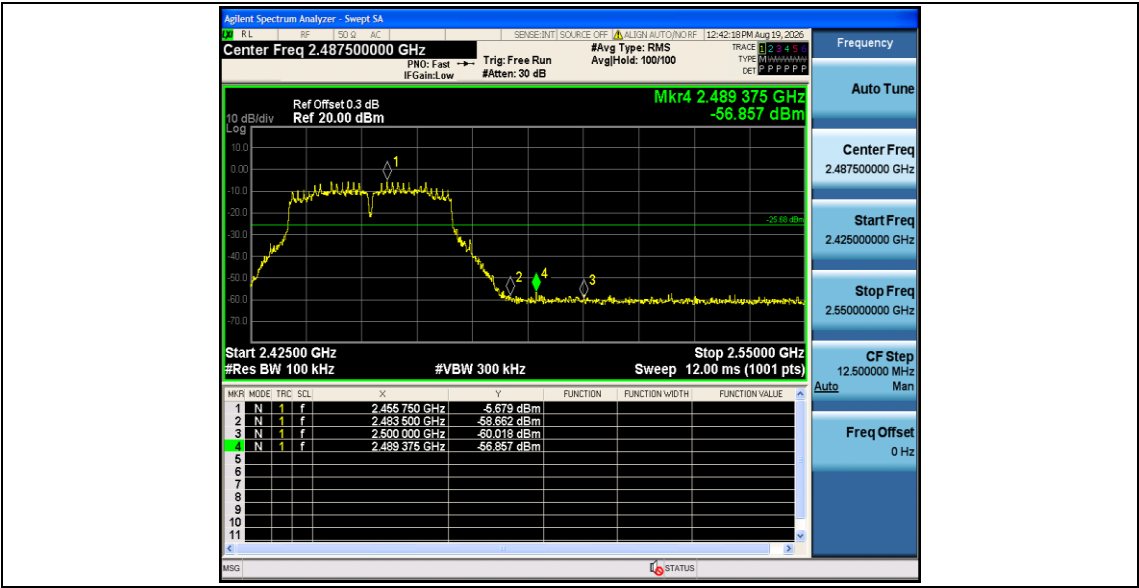
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

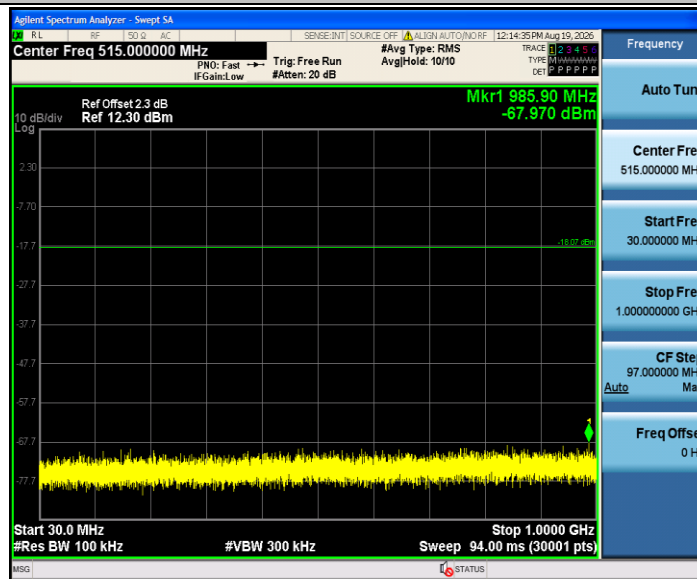
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.93	1.93	---	PASS
			30~1000	1.93	-67.97	≤-18.07	PASS
			1000~26500	1.93	-47.28	≤-18.07	PASS
		2437	Reference	2.31	2.31	---	PASS
			30~1000	2.31	-68.61	≤-17.69	PASS
			1000~26500	2.31	-46.73	≤-17.69	PASS
		2462	Reference	2.53	2.53	---	PASS
			30~1000	2.53	-68.88	≤-17.47	PASS
			1000~26500	2.53	-45.66	≤-17.47	PASS
11G	Ant1	2412	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-68.04	≤-22.54	PASS
			1000~26500	-2.54	-46.38	≤-22.54	PASS
		2437	Reference	-2.96	-2.96	---	PASS
			30~1000	-2.96	-68.84	≤-22.96	PASS
			1000~26500	-2.96	-46.98	≤-22.96	PASS
		2462	Reference	-2.72	-2.72	---	PASS
			30~1000	-2.72	-68.63	≤-22.72	PASS
			1000~26500	-2.72	-46.12	≤-22.72	PASS
11N20SISO	Ant1	2412	Reference	-2.98	-2.98	---	PASS
			30~1000	-2.98	-69.01	≤-22.98	PASS
			1000~26500	-2.98	-46.85	≤-22.98	PASS
		2437	Reference	-3.52	-3.52	---	PASS
			30~1000	-3.52	-67.39	≤-23.52	PASS
			1000~26500	-3.52	-46.69	≤-23.52	PASS
		2462	Reference	-2.67	-2.67	---	PASS
			30~1000	-2.67	-68.39	≤-22.67	PASS
			1000~26500	-2.67	-45.84	≤-22.67	PASS
11N40SISO	Ant1	2422	Reference	-5.62	-5.62	---	PASS
			30~1000	-5.62	-67.92	≤-25.62	PASS
			1000~26500	-5.62	-46.87	≤-25.62	PASS
		2437	Reference	-5.73	-5.73	---	PASS
			30~1000	-5.73	-68.45	≤-25.73	PASS
			1000~26500	-5.73	-46.45	≤-25.73	PASS
		2452	Reference	-5.49	-5.49	---	PASS
			30~1000	-5.49	-68.53	≤-25.49	PASS
			1000~26500	-5.49	-46.35	≤-25.49	PASS

Test Graphs

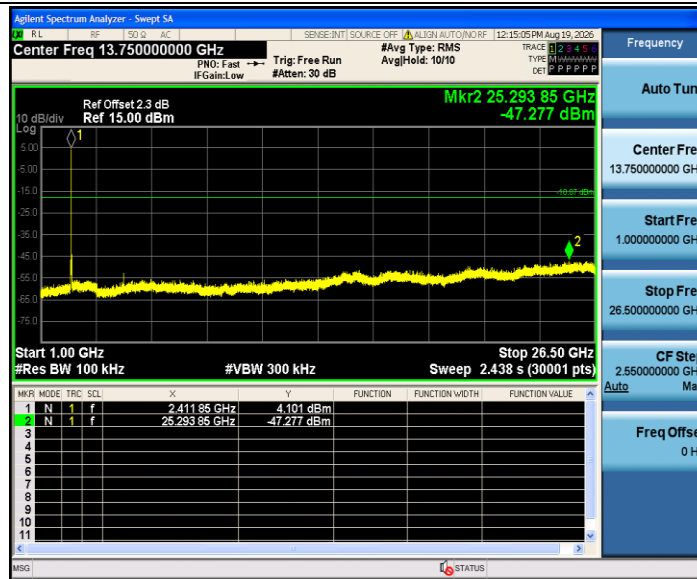
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



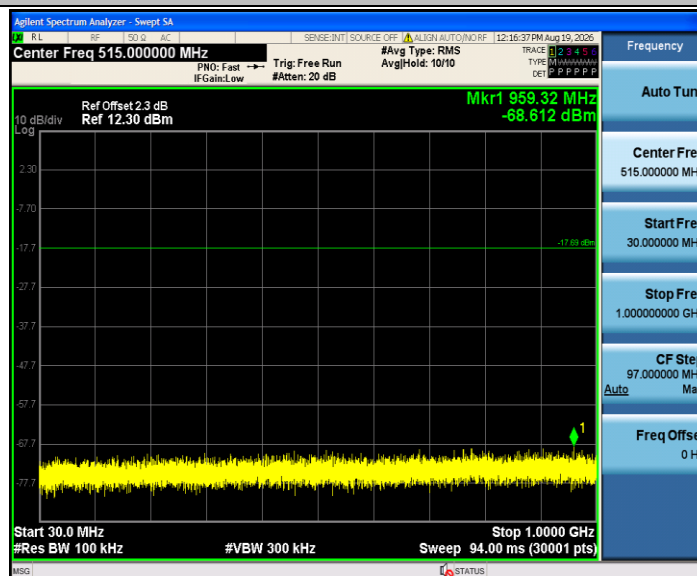
11B_Ant1_2412_1000~26500



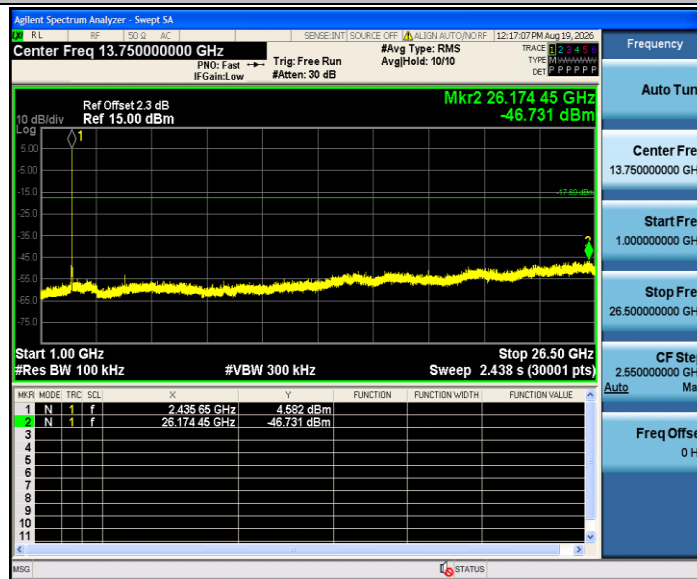
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



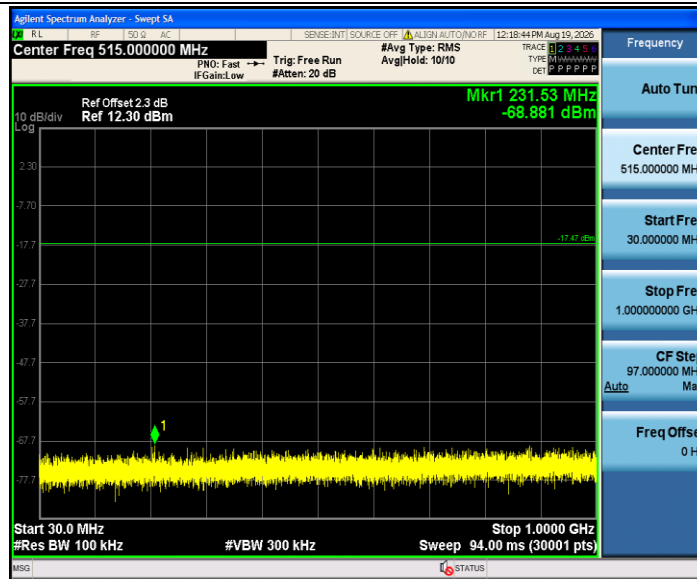
11B_Ant1_2437_1000~26500



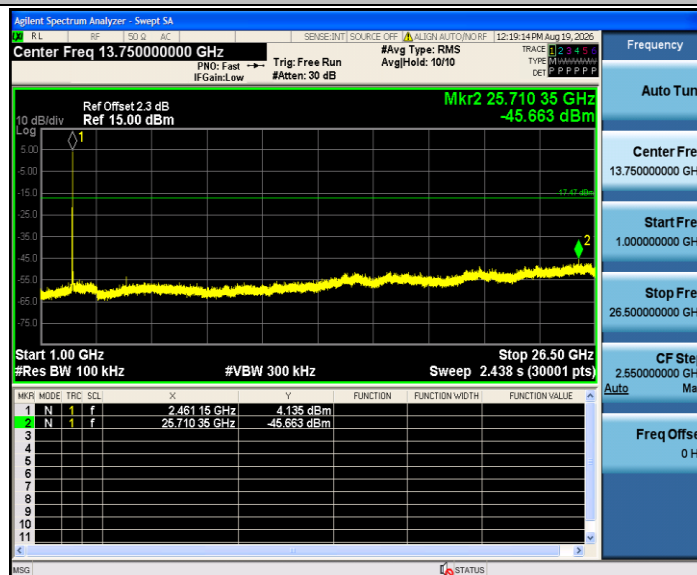
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



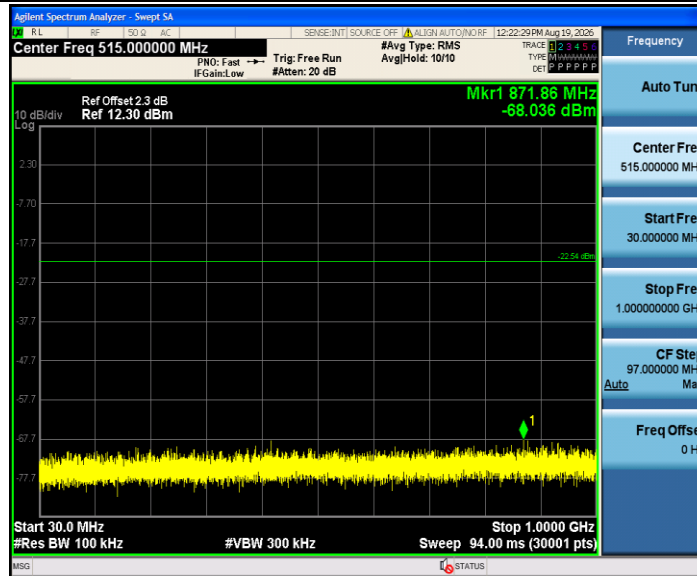
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



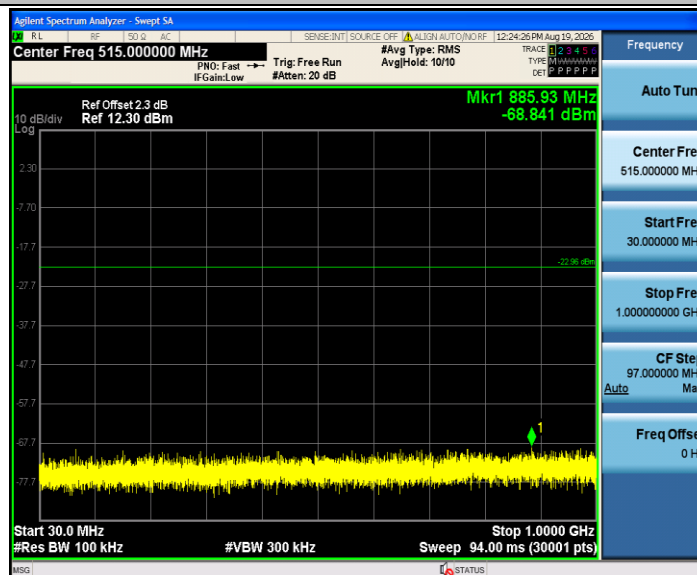
11G_Ant1_2412_1000~26500



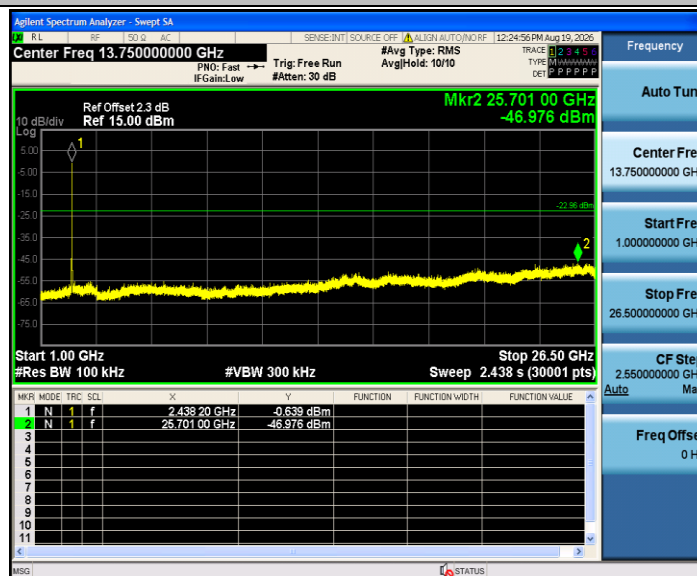
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



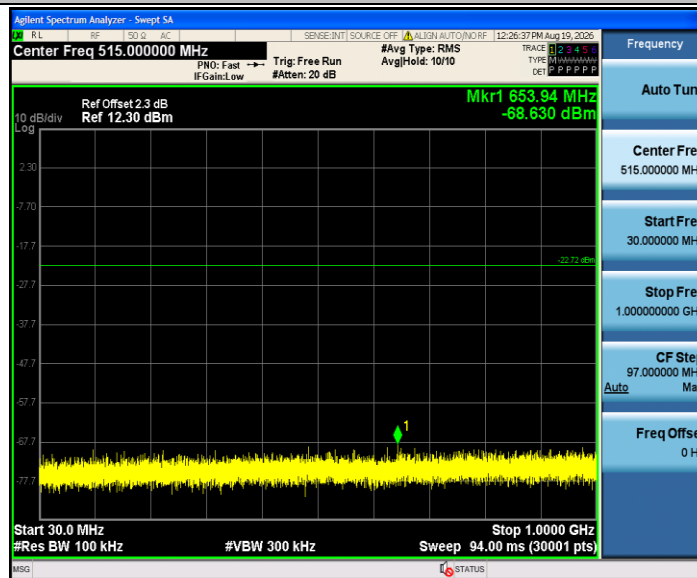
11G_Ant1_2437_1000~26500



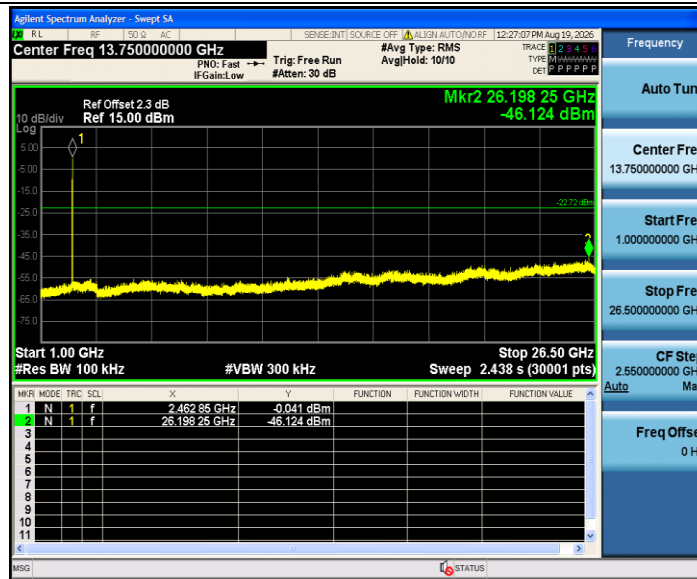
11G_Ant1_2462_0~Reference



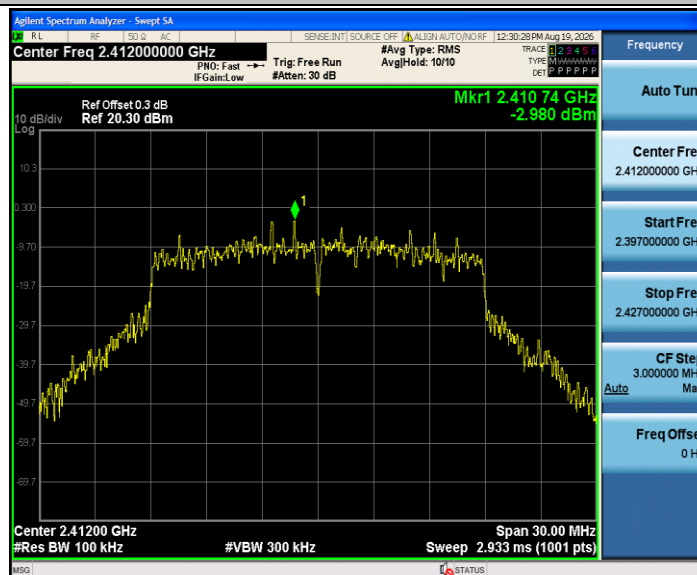
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

