

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BNGZ-D11

Company : Shenzhen Benton Technology Co. , Ltd.

EUT : Tablet PC

Model Number : M10

Report No. : CTA26072702803

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	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.840	2404.080	2419.920	0.5	PASS
		2437	15.680	2429.080	2444.760	0.5	PASS
		2462	15.600	2454.360	2469.960	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.480	2420.800	0.5	PASS
		2437	16.920	2428.480	2445.400	0.5	PASS
		2462	16.680	2453.680	2470.360	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.320	2439.920	0.5	PASS
		2437	34.800	2419.640	2454.440	0.5	PASS
		2452	35.600	2434.160	2469.760	0.5	PASS

Test Graphs

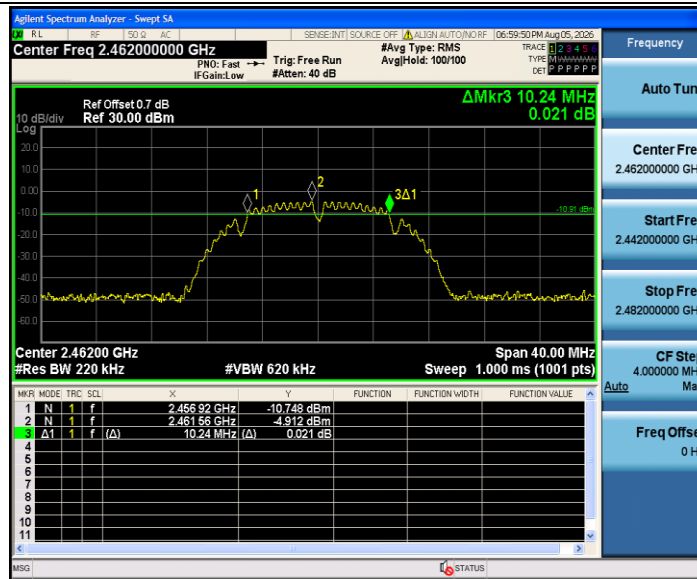
11B_Ant1_2412



11B_Ant1_2437



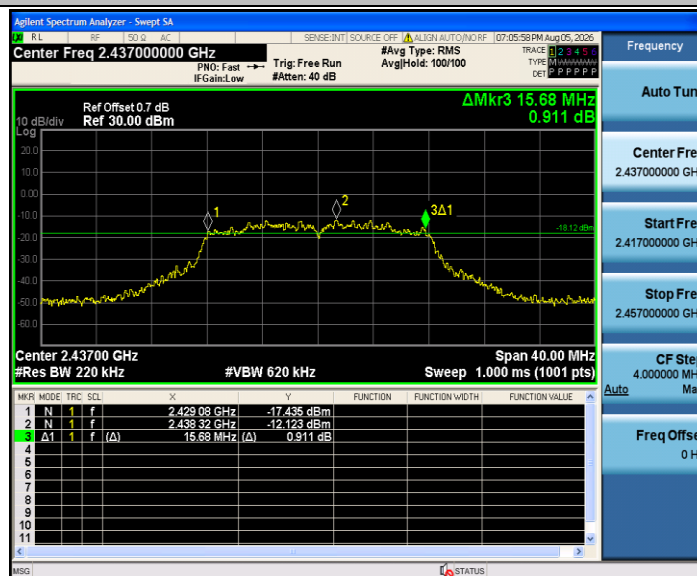
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



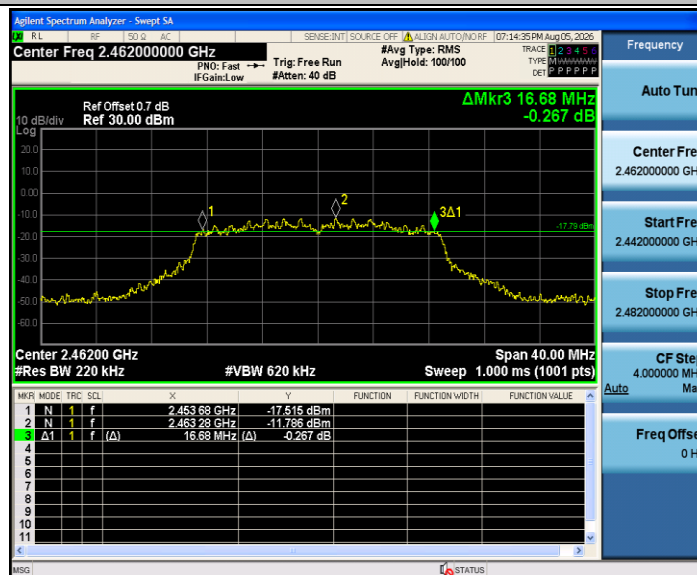
11N20SISO_Ant1_2412



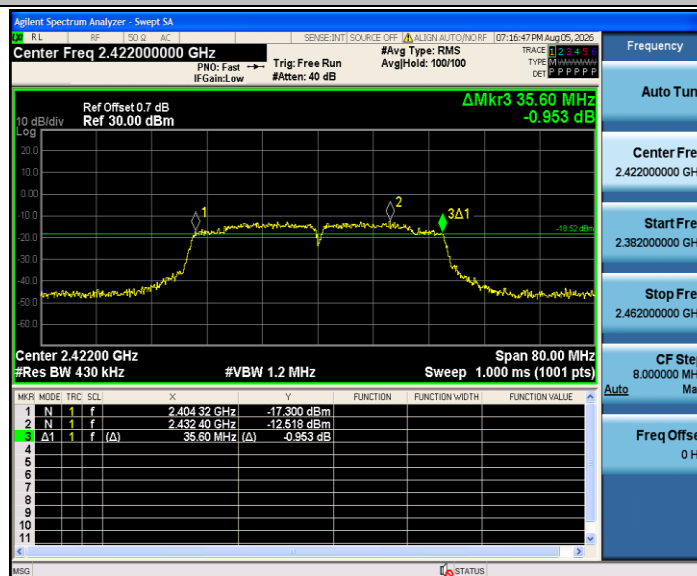
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



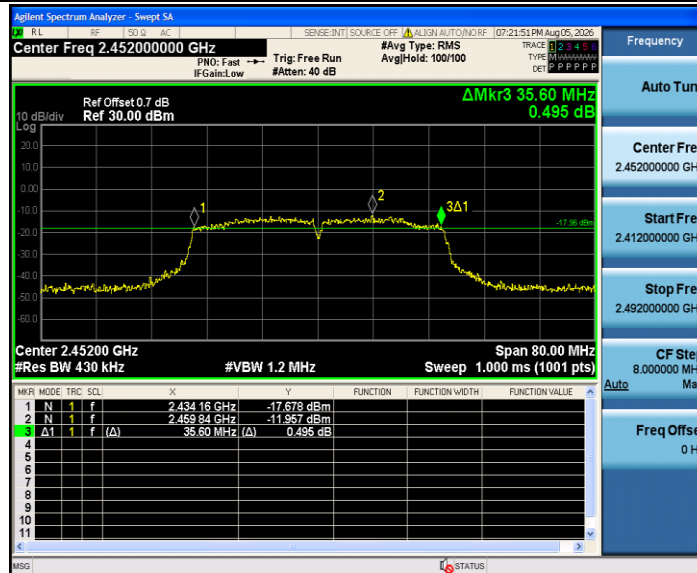
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



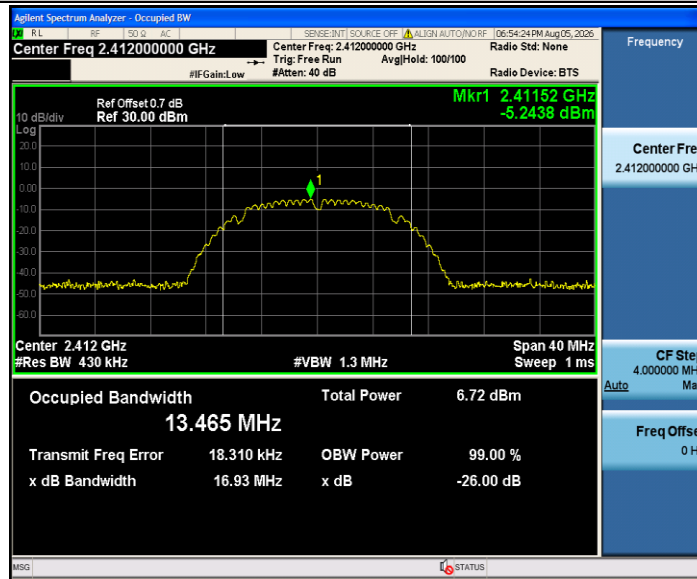
Appendix B: Occupied Channel Bandwidth

Test Result

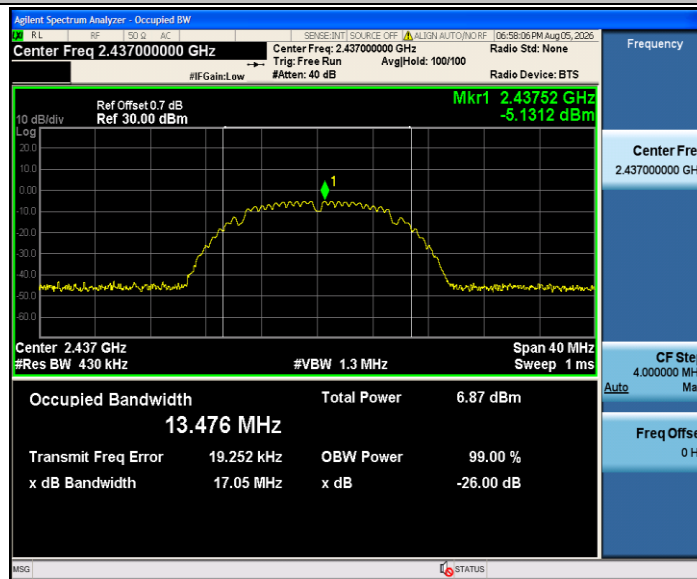
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.465	2405.2858	2418.7508	---	---
		2437	13.476	2430.2813	2443.7573	---	---
		2462	13.469	2455.3016	2468.7706	---	---
11G	Ant1	2412	16.889	2403.6212	2420.5102	---	---
		2437	16.829	2428.6331	2445.4621	---	---
		2462	16.845	2453.6152	2470.4602	---	---
11N20SISO	Ant1	2412	17.959	2403.0301	2420.9891	---	---
		2437	17.967	2428.0365	2446.0035	---	---
		2462	17.825	2453.1321	2470.9571	---	---
11N40SISO	Ant1	2422	36.160	2403.9926	2440.1526	---	---
		2437	36.204	2418.9872	2455.1912	---	---
		2452	36.171	2433.9906	2470.1616	---	---

Test Graphs

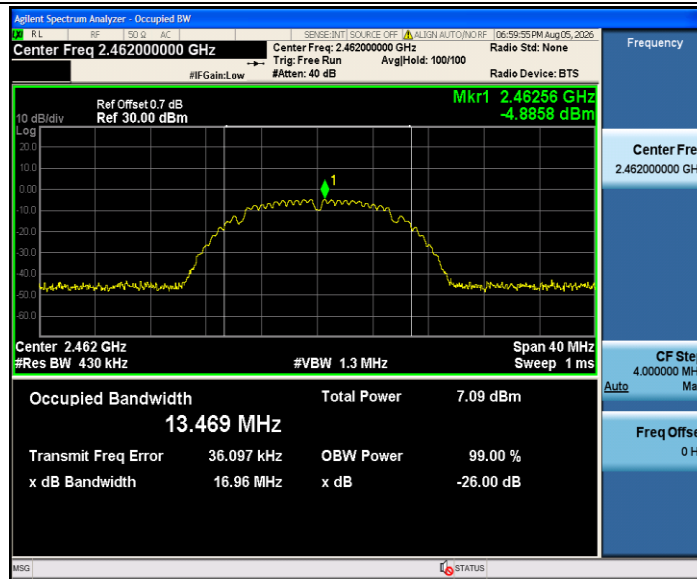
11B_Ant1_2412



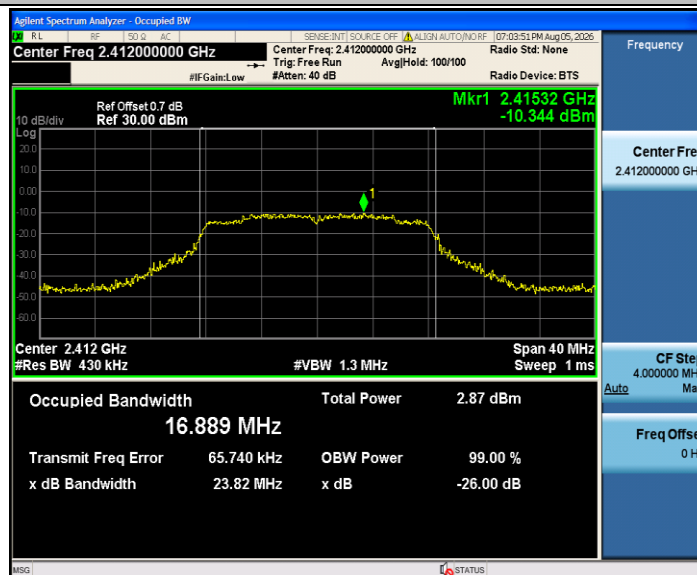
11B_Ant1_2437



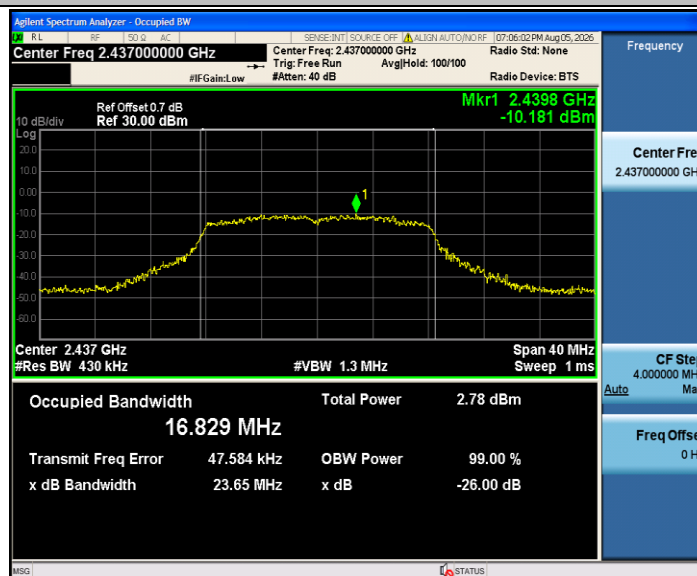
11B_Ant1_2462



11G_Ant1_2412



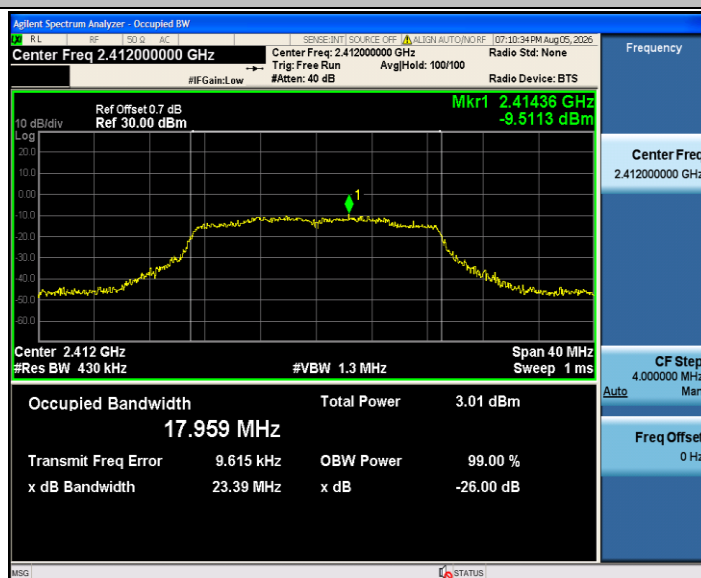
11G_Ant1_2437



11G_Ant1_2462



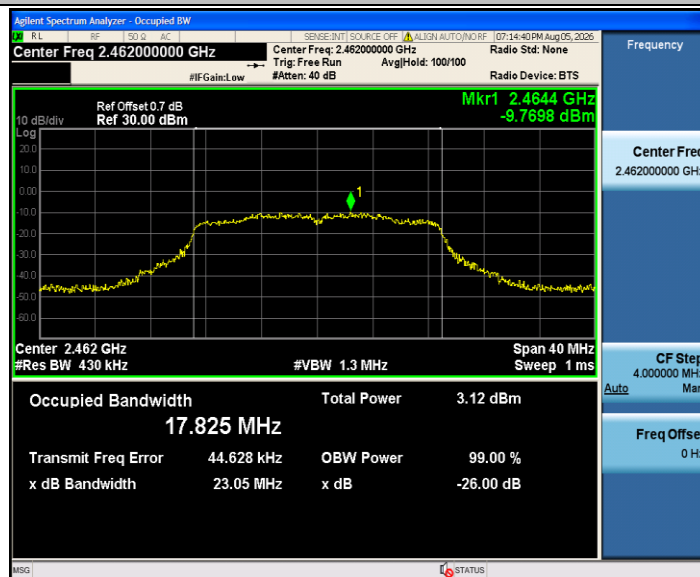
11N20SISO_Ant1_2412



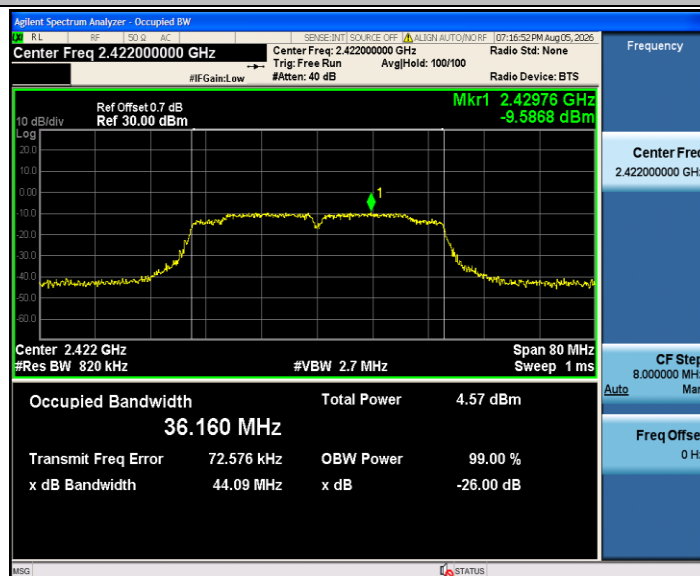
11N20SISO_Ant1_2437



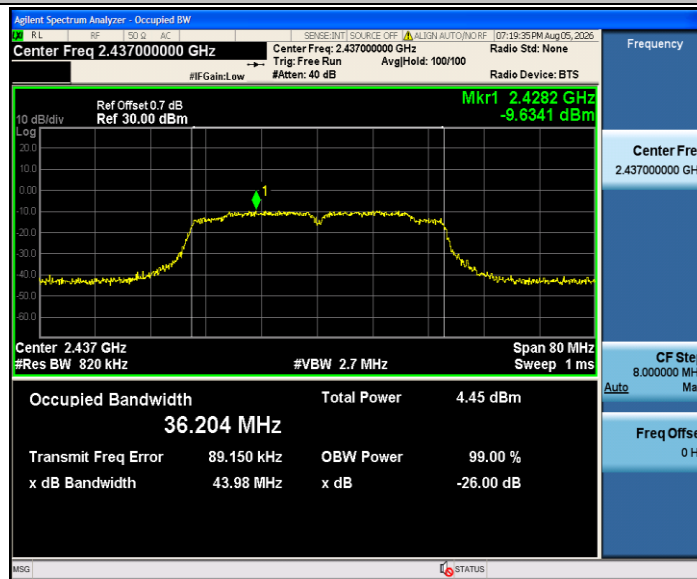
11N20SISO_Ant1_2462



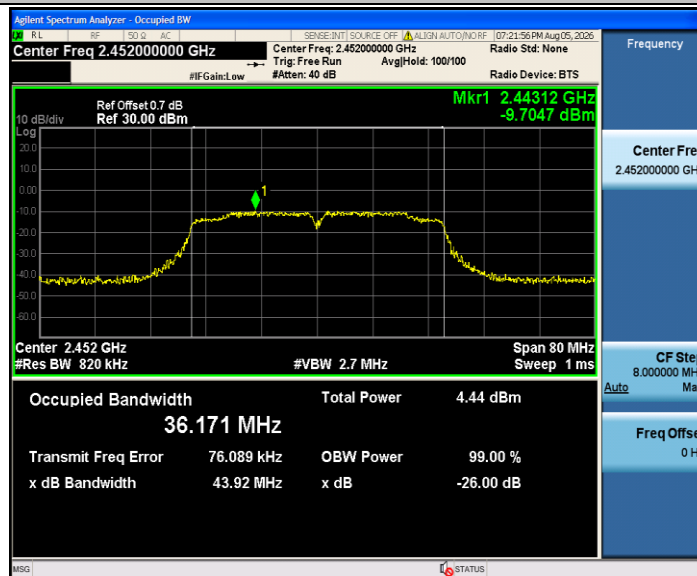
11N40SISO_Ant1_2422



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	6.49	≤30.00	PASS
		2437	6.44	≤30.00	PASS
		2462	6.75	≤30.00	PASS
11G	Ant1	2412	3.76	≤30.00	PASS
		2437	3.60	≤30.00	PASS
		2462	3.75	≤30.00	PASS
11N20SISO	Ant1	2412	3.90	≤30.00	PASS
		2437	3.83	≤30.00	PASS
		2462	3.77	≤30.00	PASS
11N40SISO	Ant1	2422	4.57	≤30.00	PASS
		2437	4.56	≤30.00	PASS
		2452	4.66	≤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	-19.12	≤8.00	PASS
		2437	-18.70	≤8.00	PASS
		2462	-19.68	≤8.00	PASS
11G	Ant1	2412	-27.39	≤8.00	PASS
		2437	-28.06	≤8.00	PASS
		2462	-27.92	≤8.00	PASS
11N20SISO	Ant1	2412	-27.91	≤8.00	PASS
		2437	-28.02	≤8.00	PASS
		2462	-27.28	≤8.00	PASS
11N40SISO	Ant1	2422	-30.16	≤8.00	PASS
		2437	-29.52	≤8.00	PASS
		2452	-29.45	≤8.00	PASS

Test Graphs

11B_Ant1_2412



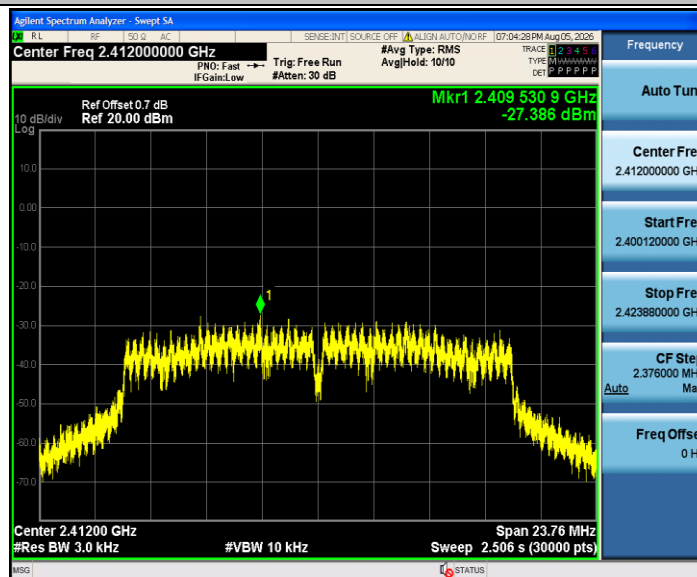
11B_Ant1_2437



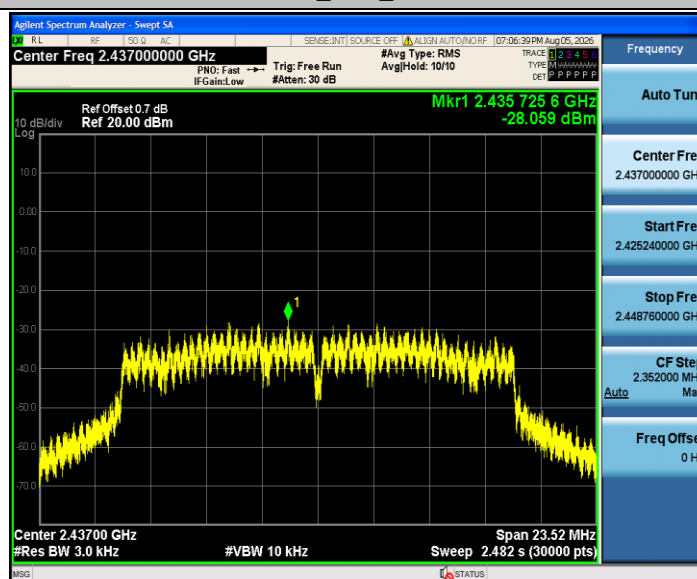
11B_Ant1_2462



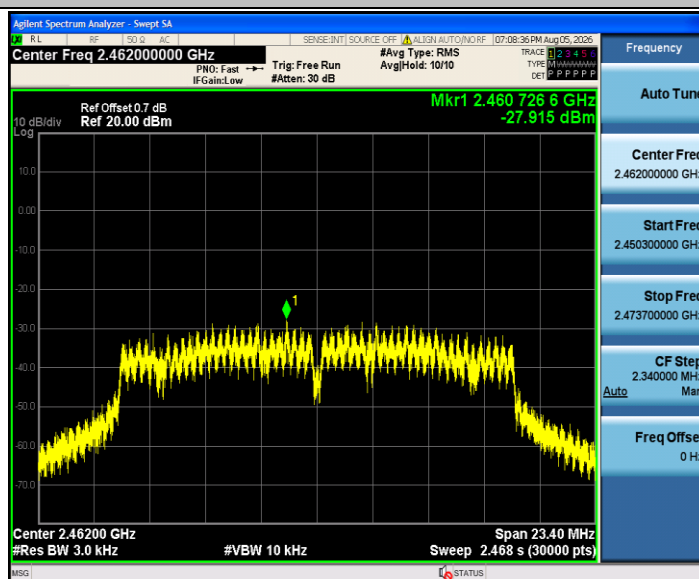
11G_Ant1_2412



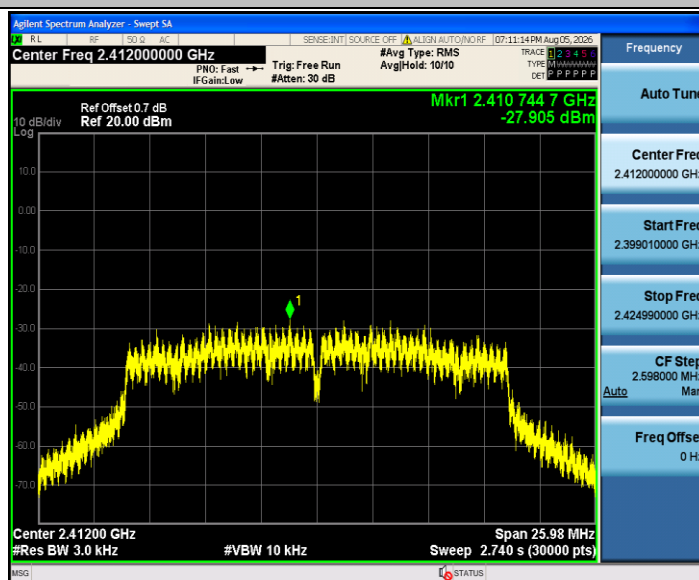
11G_Ant1_2437



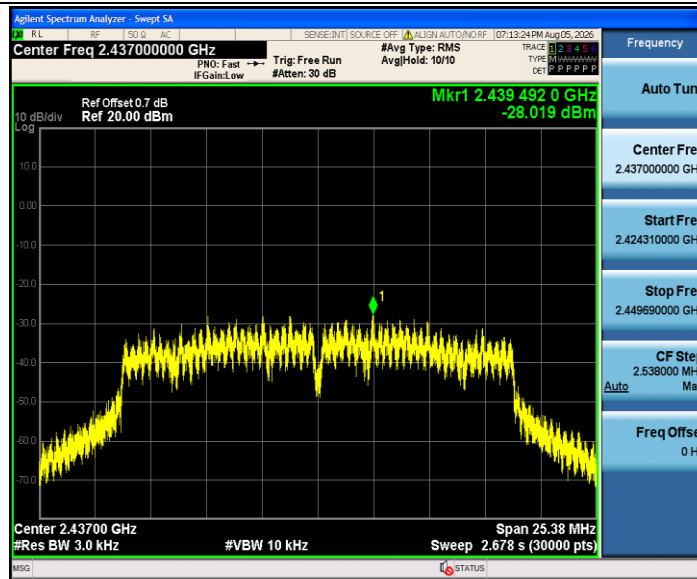
11G_Ant1_2462



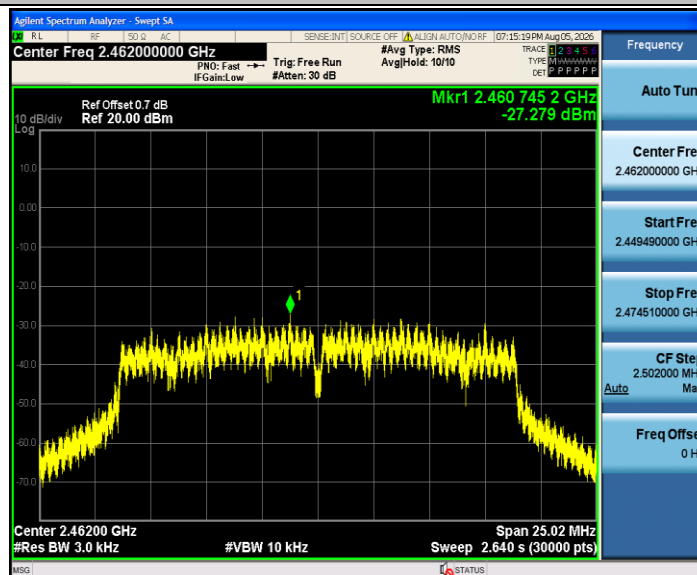
11N20SISO_Ant1_2412



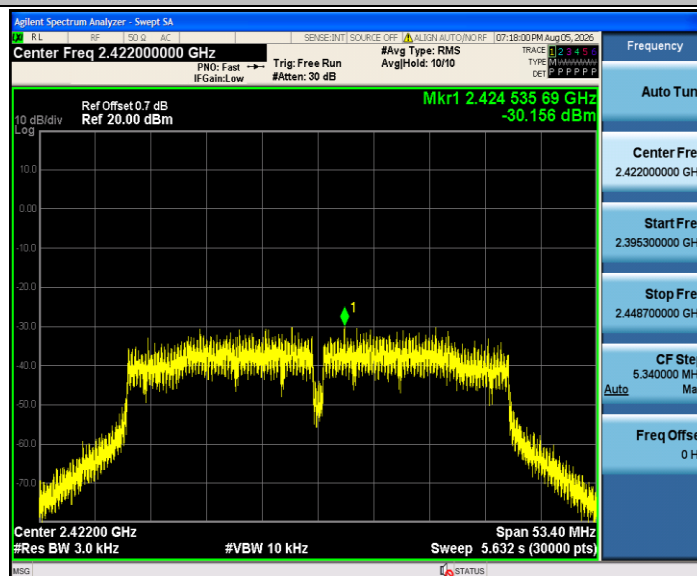
11N20SISO_Ant1_2437



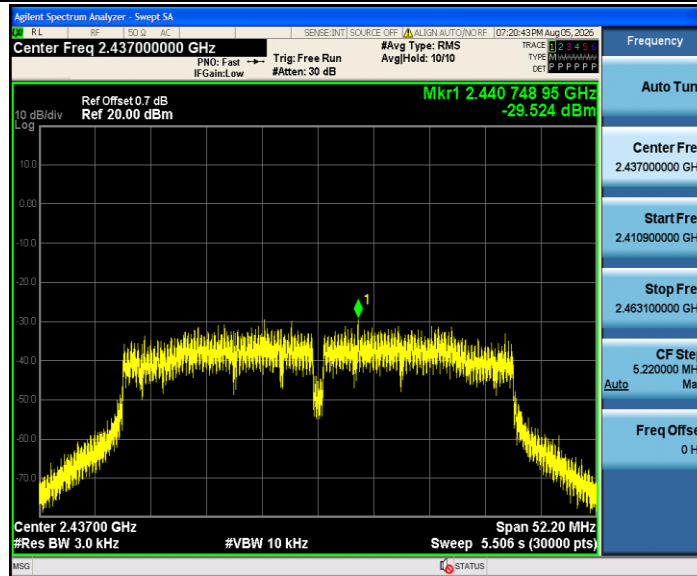
11N20SISO_Ant1_2462



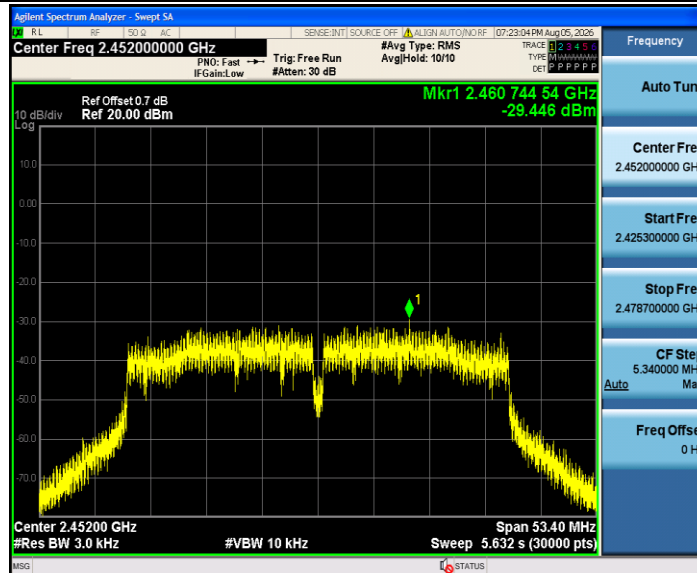
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



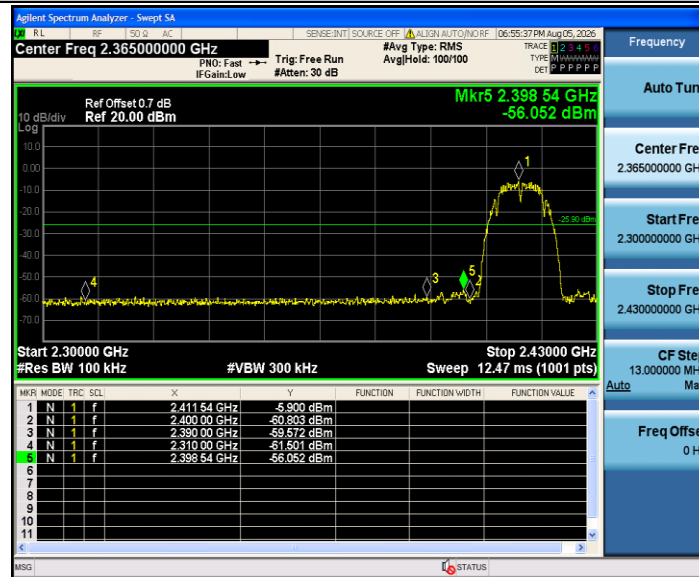
Appendix E: Band edge measurements

Test Result

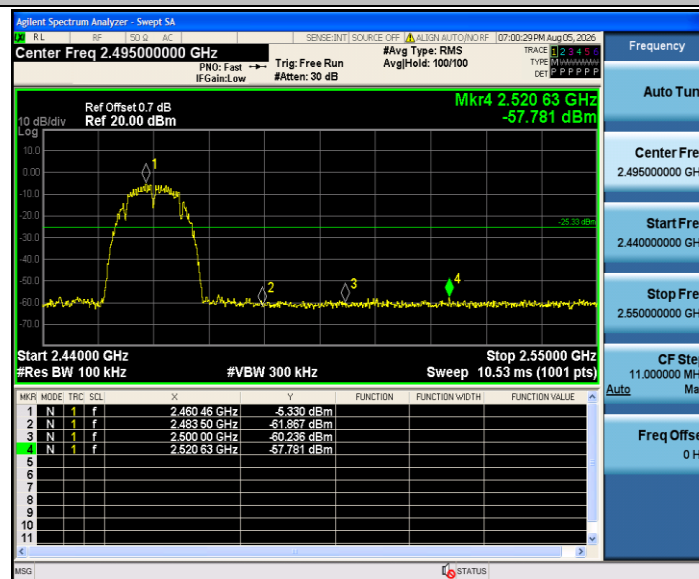
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.90	-56.05	≤-25.9	PASS
		High	2462	-5.33	-57.78	≤-25.33	PASS
11G	Ant1	Low	2412	-12.69	-43.2	≤-32.69	PASS
		High	2462	-12.65	-58.13	≤-32.65	PASS
11N20SISO	Ant1	Low	2412	-12.76	-43.51	≤-32.76	PASS
		High	2462	-12.64	-57.61	≤-32.64	PASS
11N40SISO	Ant1	Low	2422	-15.33	-42.32	≤-35.33	PASS
		High	2452	-15.41	-58.15	≤-35.41	PASS

Test Graphs

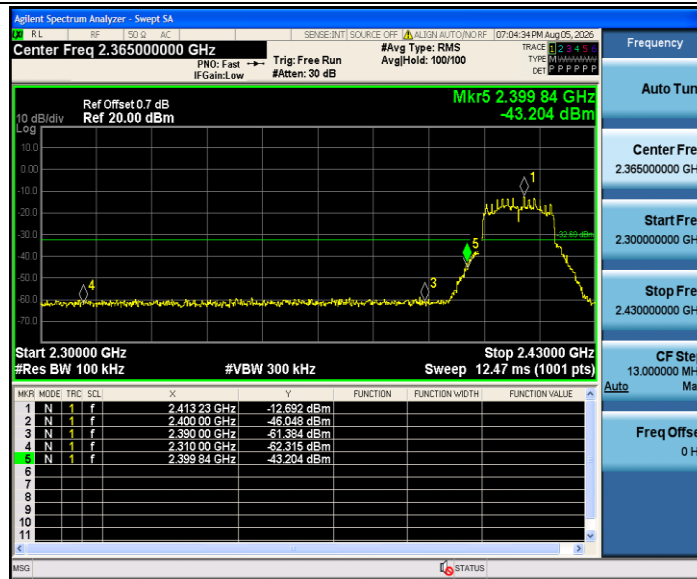
11B_Ant1_Low_2412



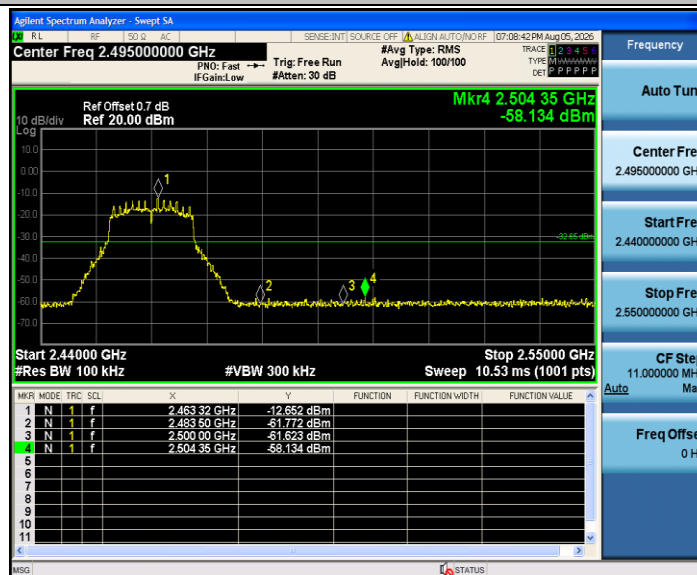
11B_Ant1_High_2462



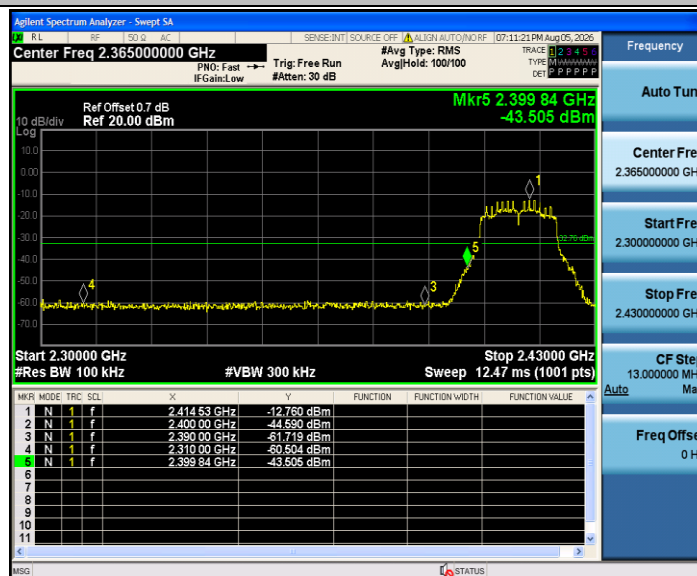
11G_Ant1_Low_2412



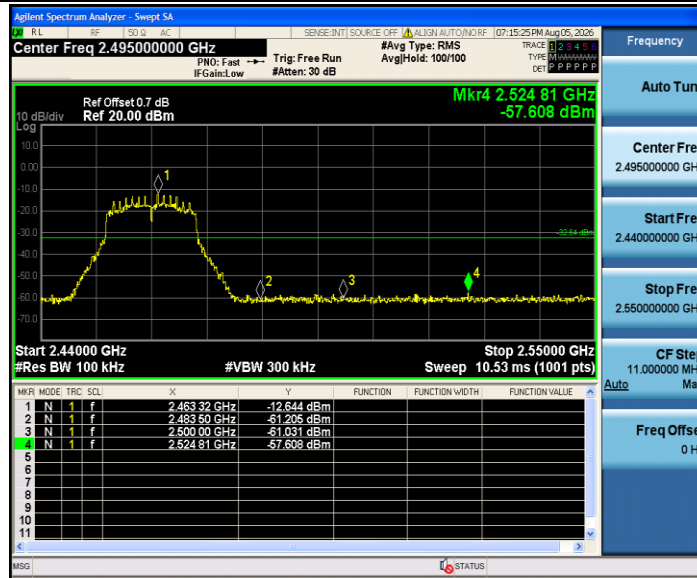
11G_Ant1_High_2462



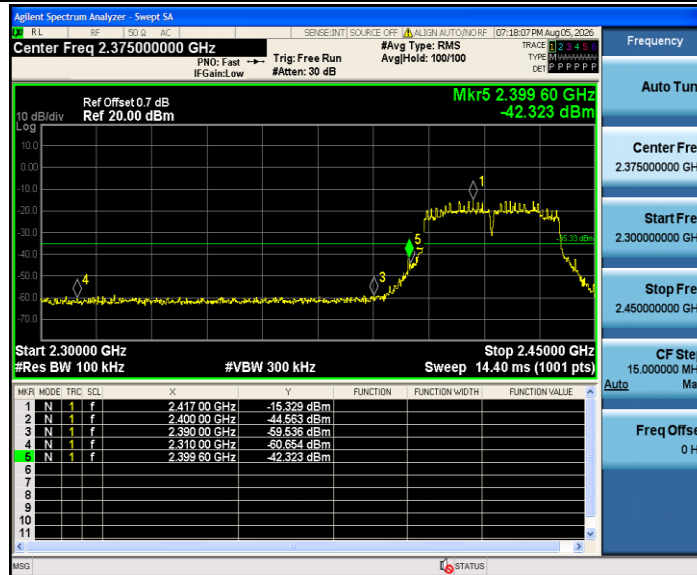
11N20SISO_Ant1_Low_2412



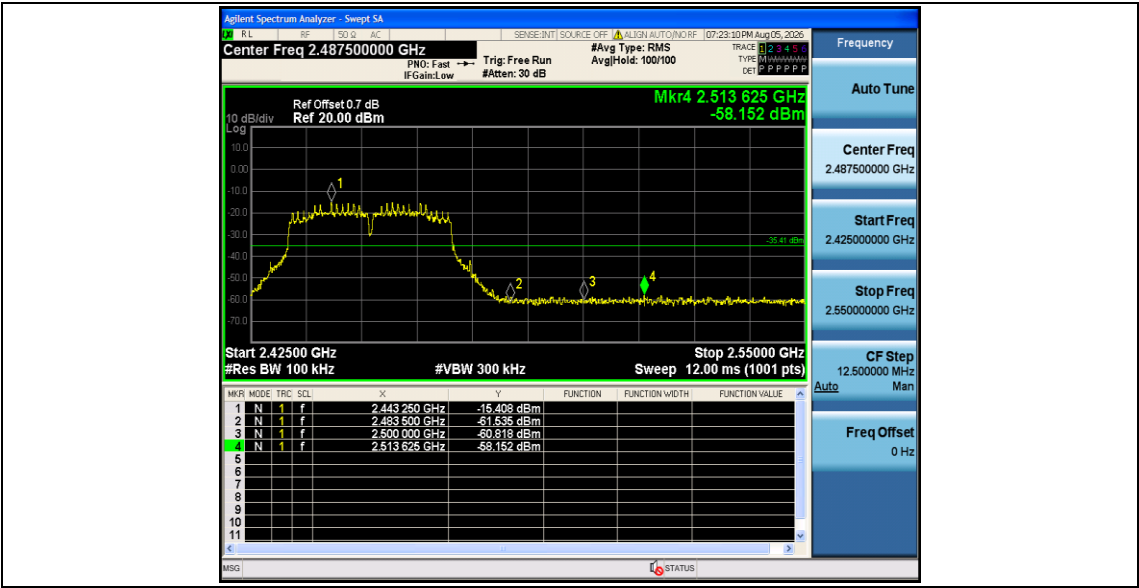
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

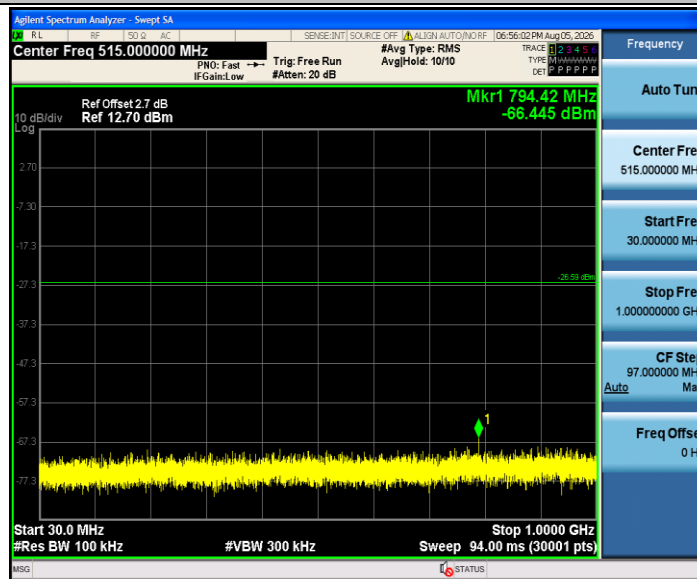
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-6.59	-6.59	---	PASS
			30~1000	-6.59	-66.45	≤-26.59	PASS
			1000~26500	-6.59	-46.31	≤-26.59	PASS
		2437	Reference	-7.17	-7.17	---	PASS
			30~1000	-7.17	-67.67	≤-27.17	PASS
			1000~26500	-7.17	-46.04	≤-27.17	PASS
		2462	Reference	-7.00	-7.00	---	PASS
			30~1000	-7.00	-67.88	≤-27	PASS
			1000~26500	-7.00	-46.45	≤-27	PASS
11G	Ant1	2412	Reference	-13.46	-13.46	---	PASS
			30~1000	-13.46	-68.18	≤-33.46	PASS
			1000~26500	-13.46	-46.6	≤-33.46	PASS
		2437	Reference	-13.61	-13.61	---	PASS
			30~1000	-13.61	-67.92	≤-33.61	PASS
			1000~26500	-13.61	-47	≤-33.61	PASS
		2462	Reference	-13.22	-13.22	---	PASS
			30~1000	-13.22	-68.52	≤-33.22	PASS
			1000~26500	-13.22	-46.64	≤-33.22	PASS
11N20SISO	Ant1	2412	Reference	-13.17	-13.17	---	PASS
			30~1000	-13.17	-65.94	≤-33.17	PASS
			1000~26500	-13.17	-46.02	≤-33.17	PASS
		2437	Reference	-12.54	-12.54	---	PASS
			30~1000	-12.54	-64.26	≤-32.54	PASS
			1000~26500	-12.54	-45.58	≤-32.54	PASS
		2462	Reference	-12.83	-12.83	---	PASS
			30~1000	-12.83	-68.28	≤-32.83	PASS
			1000~26500	-12.83	-46.75	≤-32.83	PASS
11N40SISO	Ant1	2422	Reference	-15.95	-15.95	---	PASS
			30~1000	-15.95	-68.63	≤-35.95	PASS
			1000~26500	-15.95	-47.05	≤-35.95	PASS
		2437	Reference	-16.25	-16.25	---	PASS
			30~1000	-16.25	-67.94	≤-36.25	PASS
			1000~26500	-16.25	-46.1	≤-36.25	PASS
		2452	Reference	-15.69	-15.69	---	PASS
			30~1000	-15.69	-68.26	≤-35.69	PASS
			1000~26500	-15.69	-46.44	≤-35.69	PASS

Test Graphs

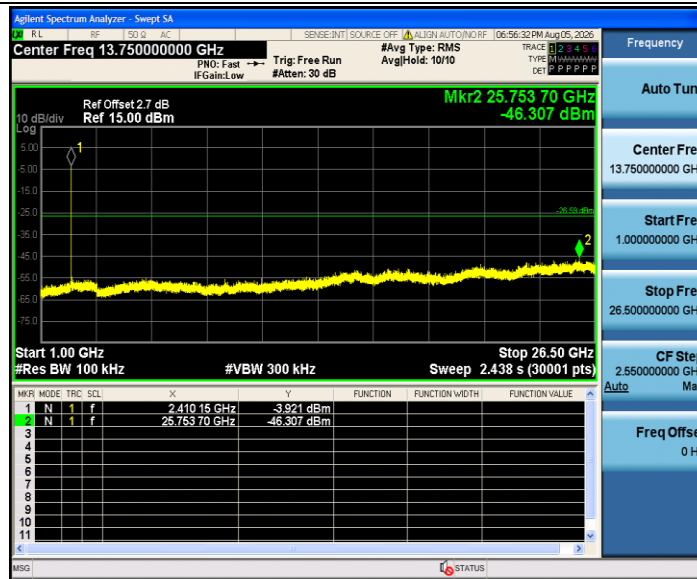
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



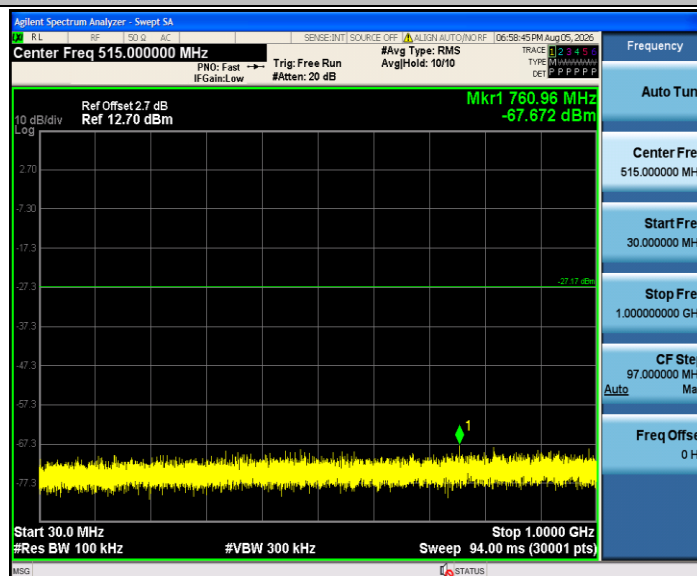
11B_Ant1_2412_1000~26500



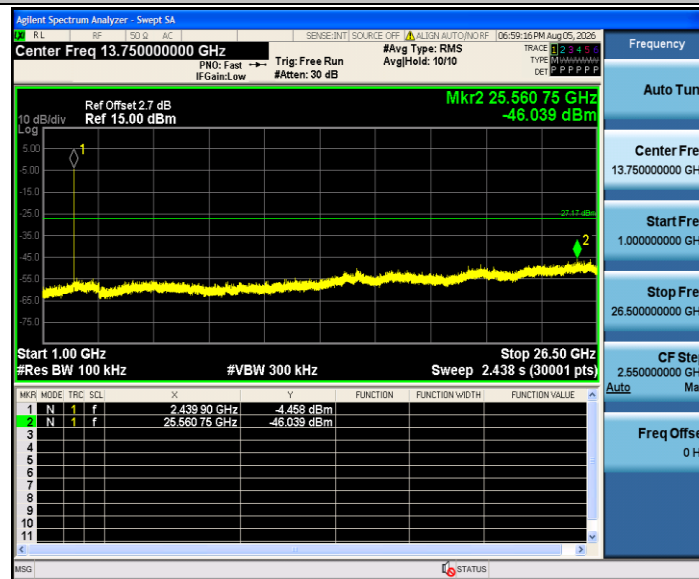
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



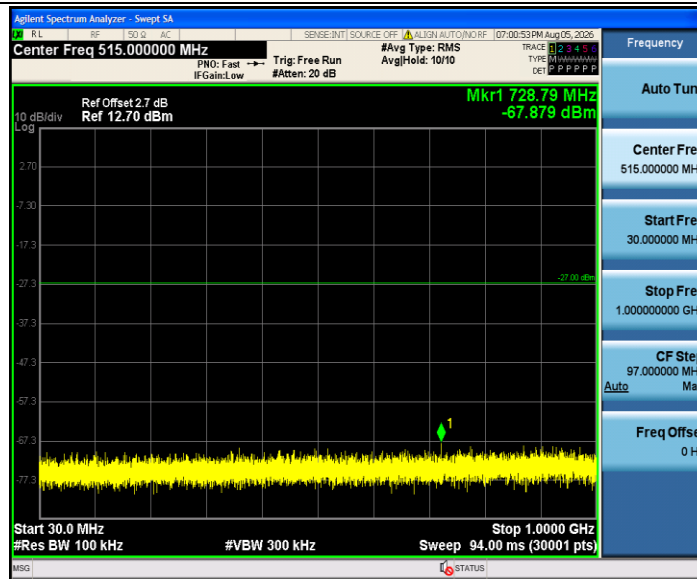
11B_Ant1_2437_1000~26500



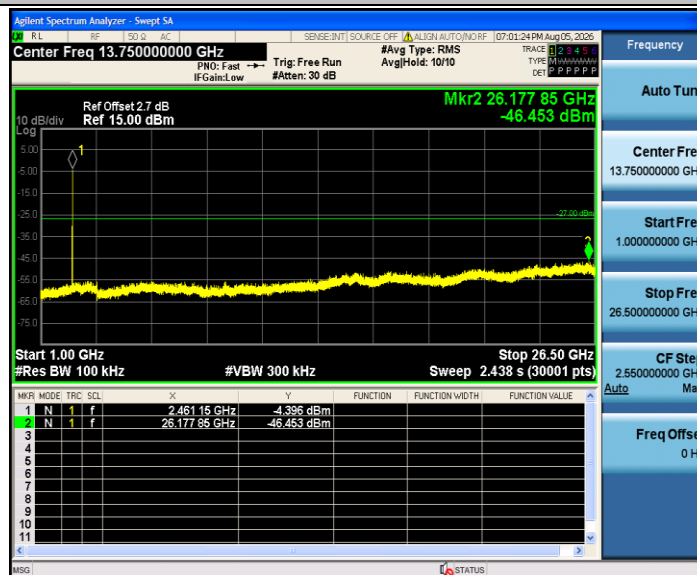
11B_Ant1_2462_0~Reference



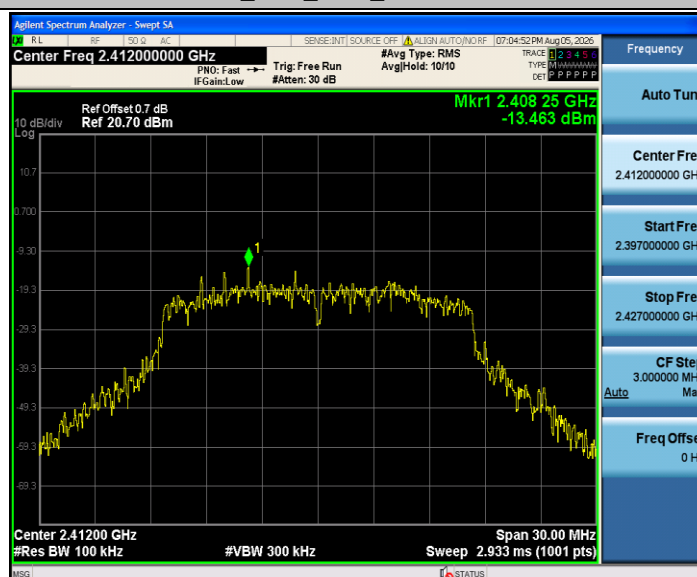
11B_Ant1_2462_30~1000



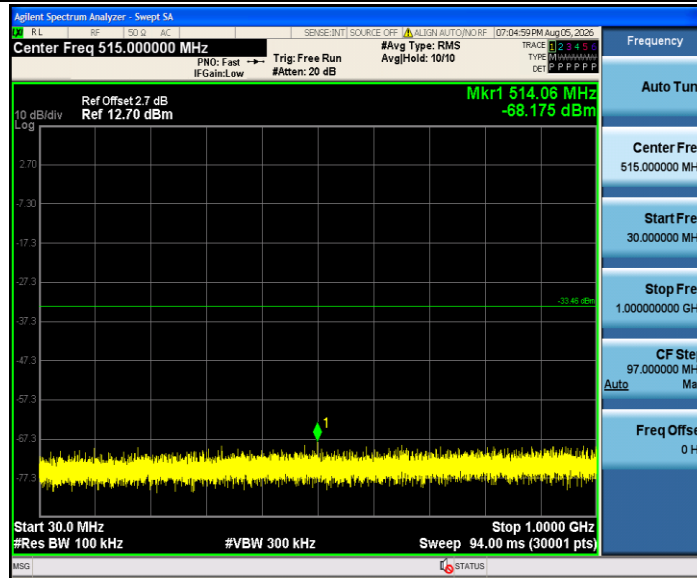
11B_Ant1_2462_1000~26500



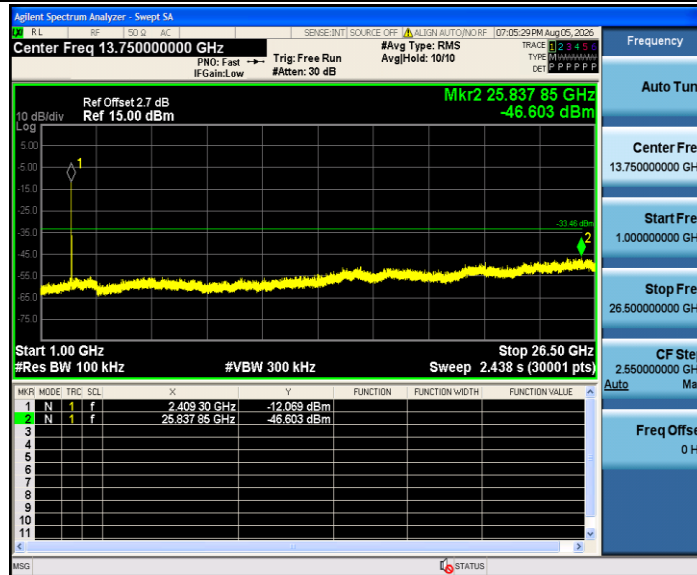
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



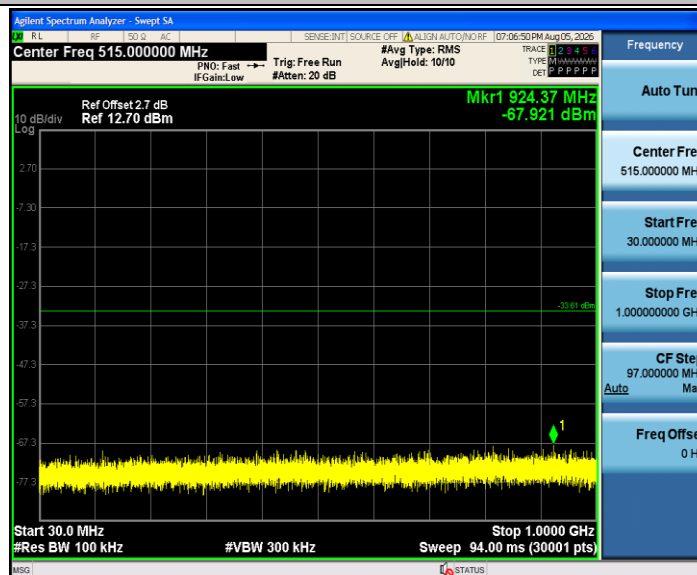
11G_Ant1_2412_1000~26500



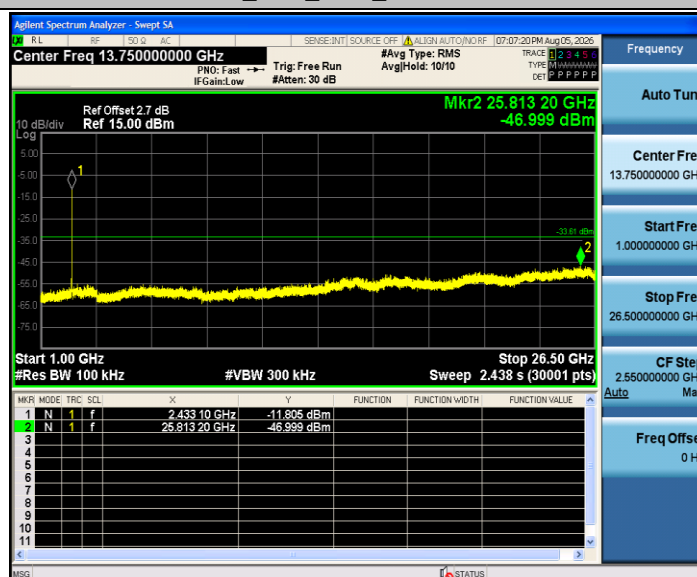
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



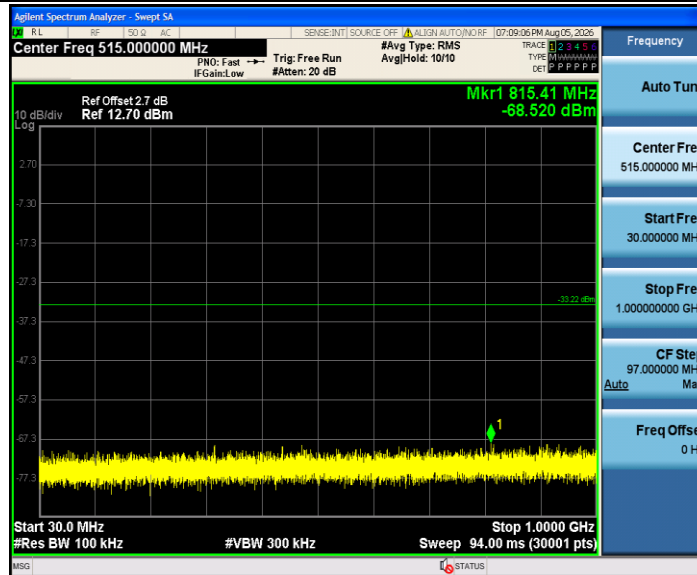
11G_Ant1_2437_1000~26500



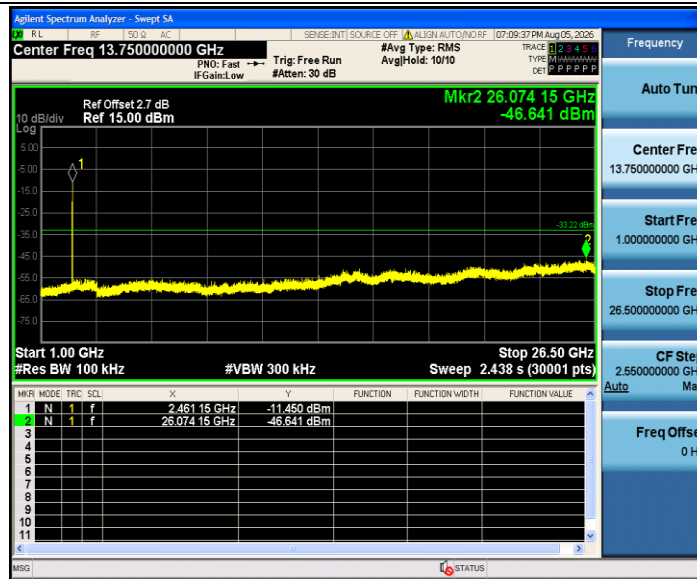
11G_Ant1_2462_0~Reference



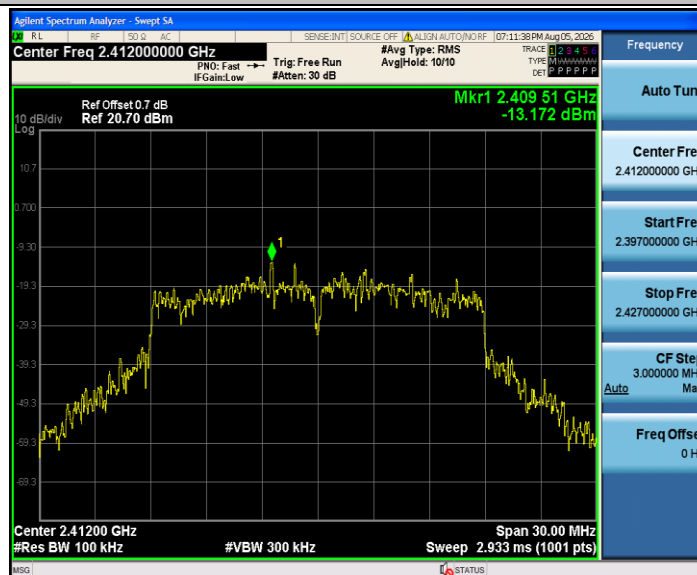
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

