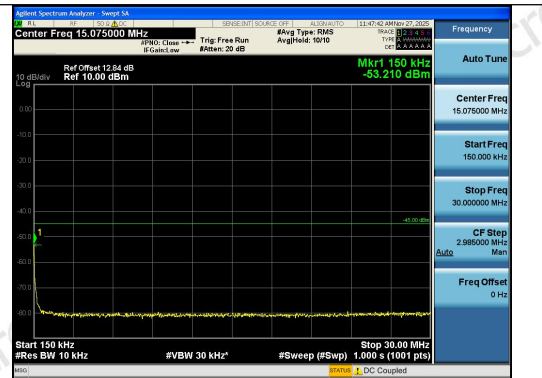
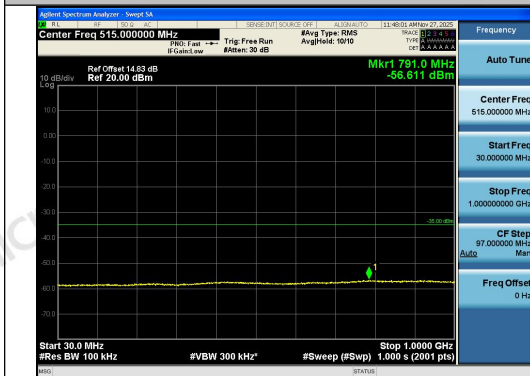




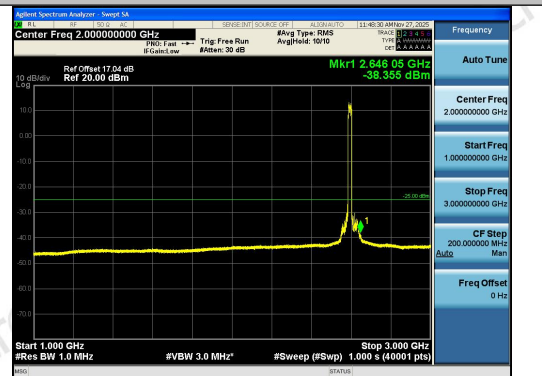
Band41-20MHz-QPSK-40620-100RB#0-0.009~0.15-PASS



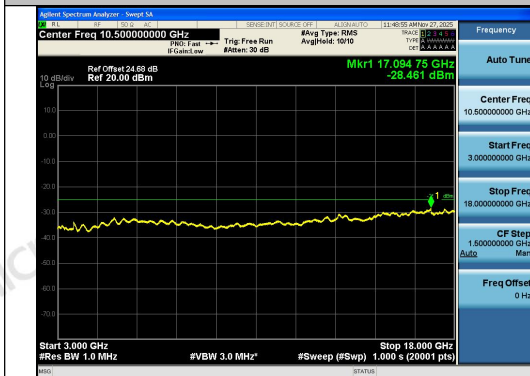
Band41-20MHz-QPSK-40620-100RB#0-0.15~30-P ASS



Band41-20MHz-QPSK-40620-100RB#0-30~1000-PASS



Band41-20MHz-QPSK-40620-100RB#0-1000~3000-0-PASS



Band41-20MHz-QPSK-40620-100RB#0-3000~18000-000-PASS



Band41-20MHz-QPSK-40620-100RB#0-18000~27000-000-PASS



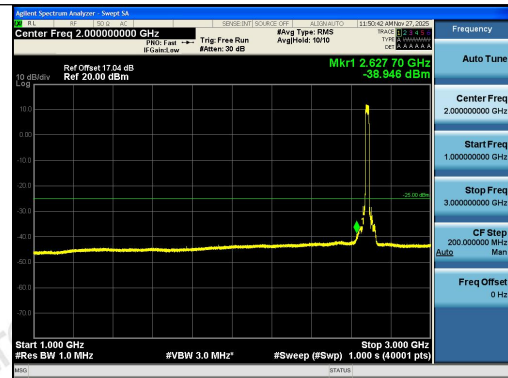
Band41-20MHz-QPSK-41490-100RB#0-0.009~0.15-PASS



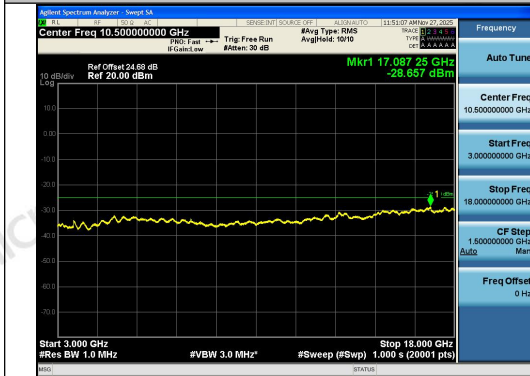
Band41-20MHz-QPSK-41490-100RB#0-0.15~30-P ASS



Band41-20MHz-QPSK-41490-100RB#0-30~1000
-PASS



Band41-20MHz-QPSK-41490-100RB#0-1000~300
0-PASS



Band41-20MHz-QPSK-41490-100RB#0-3000~18
000-PASS



Band41-20MHz-QPSK-41490-100RB#0-18000~27
000-PASS

Appendix F: Frequency Stability

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4_1	5MHz	QPSK	39675	25RB#0	NV	-30	5.66	0.002265	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	-20	-5.29	-0.002117	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	-10	-10.07	-0.004030	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	0	-12.59	-0.005039	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	10	-5.16	-0.002065	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	20	-9.71	-0.003886	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	30	-13.26	-0.005307	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	40	-5.98	-0.002393	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	50	6.14	0.002457	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	-30	-10.54	-0.004219	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	-20	4.09	0.001637	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	-10	10.36	0.004146	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	0	-5.92	-0.002369	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	10	-12.92	-0.005171	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	20	-10.41	-0.004166	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	30	14.29	0.005719	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	40	11.19	0.004479	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	50	-2.86	-0.00114	±2.5	PASS

1		M	5					5		S
Band4 1	5MHz	QPSK	4062 0	25RB#0	NV	-30	-11.00	-0.00424 2	±2.5	PAS S
Band4 1	5MHz	QPSK	4062 0	25RB#0	NV	-20	2.37	0.00091 4	±2.5	PAS S
Band4 1	5MHz	QPSK	4062 0	25RB#0	NV	-10	10.23	0.00394 5	±2.5	PAS S
Band4 1	5MHz	QPSK	4062 0	25RB#0	NV	0	5.42	0.00209 0	±2.5	PAS S
Band4 1	5MHz	QPSK	4062 0	25RB#0	NV	10	-7.24	-0.00279 2	±2.5	PAS S
Band4 1	5MHz	QPSK	4062 0	25RB#0	NV	20	7.35	0.00283 5	±2.5	PAS S
Band4 1	5MHz	QPSK	4062 0	25RB#0	NV	30	15.92	0.00614 0	±2.5	PAS S
Band4 1	5MHz	QPSK	4062 0	25RB#0	NV	40	-13.15	-0.00507 1	±2.5	PAS S
Band4 1	5MHz	QPSK	4062 0	25RB#0	NV	50	-6.67	-0.00257 2	±2.5	PAS S
Band4 1	5MHz	16QA M	4062 0	25RB#0	NV	-30	-13.20	-0.00509 1	±2.5	PAS S
Band4 1	5MHz	16QA M	4062 0	25RB#0	NV	-20	-13.52	-0.00521 4	±2.5	PAS S
Band4 1	5MHz	16QA M	4062 0	25RB#0	NV	-10	-8.96	-0.00345 5	±2.5	PAS S
Band4 1	5MHz	16QA M	4062 0	25RB#0	NV	0	-7.25	-0.00279 6	±2.5	PAS S
Band4 1	5MHz	16QA M	4062 0	25RB#0	NV	10	6.04	0.00232 9	±2.5	PAS S
Band4 1	5MHz	16QA M	4062 0	25RB#0	NV	20	11.84	0.00456 6	±2.5	PAS S
Band4 1	5MHz	16QA M	4062 0	25RB#0	NV	30	-11.79	-0.00454 7	±2.5	PAS S
Band4 1	5MHz	16QA M	4062 0	25RB#0	NV	40	11.40	0.00439 6	±2.5	PAS S
Band4 1	5MHz	16QA M	4062 0	25RB#0	NV	50	-14.10	-0.00543 8	±2.5	PAS S
Band4 1	5MHz	QPSK	4156 5	25RB#0	NV	-30	-17.29	-0.00643 3	±2.5	PAS S
Band4 1	5MHz	QPSK	4156 5	25RB#0	NV	-20	-17.08	-0.00635 5	±2.5	PAS S
Band4 1	5MHz	QPSK	4156 5	25RB#0	NV	-10	-19.30	-0.00718 1	±2.5	PAS S

Band4 1	5MHz	QPSK	4156 5	25RB#0	NV	0	-23.66	-0.00880 4	±2.5	PAS S
Band4 1	5MHz	QPSK	4156 5	25RB#0	NV	10	-25.36	-0.00943 6	±2.5	PAS S
Band4 1	5MHz	QPSK	4156 5	25RB#0	NV	20	-12.00	-0.00446 5	±2.5	PAS S
Band4 1	5MHz	QPSK	4156 5	25RB#0	NV	30	-22.24	-0.00827 5	±2.5	PAS S
Band4 1	5MHz	QPSK	4156 5	25RB#0	NV	40	-12.23	-0.00455 1	±2.5	PAS S
Band4 1	5MHz	QPSK	4156 5	25RB#0	NV	50	-22.03	-0.00819 7	±2.5	PAS S
Band4 1	5MHz	16QA M	4156 5	25RB#0	NV	-30	-16.84	-0.00626 6	±2.5	PAS S
Band4 1	5MHz	16QA M	4156 5	25RB#0	NV	-20	-20.84	-0.00775 4	±2.5	PAS S
Band4 1	5MHz	16QA M	4156 5	25RB#0	NV	-10	-16.59	-0.00617 3	±2.5	PAS S
Band4 1	5MHz	16QA M	4156 5	25RB#0	NV	0	-18.87	-0.00702 1	±2.5	PAS S
Band4 1	5MHz	16QA M	4156 5	25RB#0	NV	10	-17.64	-0.00656 4	±2.5	PAS S
Band4 1	5MHz	16QA M	4156 5	25RB#0	NV	20	-11.57	-0.00430 5	±2.5	PAS S
Band4 1	5MHz	16QA M	4156 5	25RB#0	NV	30	-18.64	-0.00693 6	±2.5	PAS S
Band4 1	5MHz	16QA M	4156 5	25RB#0	NV	40	-10.86	-0.00404 1	±2.5	PAS S
Band4 1	5MHz	16QA M	4156 5	25RB#0	NV	50	-14.36	-0.00534 3	±2.5	PAS S
Band4 1	10MH z	QPSK	3970 0	50RB#0	NV	-30	3.86	0.00154 3	±2.5	PAS S
Band4 1	10MH z	QPSK	3970 0	50RB#0	NV	-20	-5.31	-0.00212 3	±2.5	PAS S
Band4 1	10MH z	QPSK	3970 0	50RB#0	NV	-10	-11.26	-0.00450 2	±2.5	PAS S
Band4 1	10MH z	QPSK	3970 0	50RB#0	NV	0	-12.27	-0.00490 6	±2.5	PAS S
Band4 1	10MH z	QPSK	3970 0	50RB#0	NV	10	-11.20	-0.00447 8	±2.5	PAS S
Band4 1	10MH z	QPSK	3970 0	50RB#0	NV	20	-9.87	-0.00394 6	±2.5	PAS S
Band4	10MH	QPSK	3970	50RB#0	NV	30	-4.41	-0.00176	±2.5	PAS

1	z		0					3		S
Band4 1	10MH z	QPSK	3970 0	50RB#0	NV	40	8.51	0.00340 3	±2.5	PAS S
Band4 1	10MH z	QPSK	3970 0	50RB#0	NV	50	-11.12	-0.00444 6	±2.5	PAS S
Band4 1	10MH z	QPSK	4062 0	50RB#0	NV	-30	2.88	0.001111	±2.5	PAS S
Band4 1	10MH z	QPSK	4062 0	50RB#0	NV	-20	-6.77	-0.00261 1	±2.5	PAS S
Band4 1	10MH z	QPSK	4062 0	50RB#0	NV	-10	-7.60	-0.00293 1	±2.5	PAS S
Band4 1	10MH z	QPSK	4062 0	50RB#0	NV	0	-13.49	-0.00520 2	±2.5	PAS S
Band4 1	10MH z	QPSK	4062 0	50RB#0	NV	10	-15.08	-0.00581 6	±2.5	PAS S
Band4 1	10MH z	QPSK	4062 0	50RB#0	NV	20	-16.98	-0.00654 8	±2.5	PAS S
Band4 1	10MH z	QPSK	4062 0	50RB#0	NV	30	-9.27	-0.00357 5	±2.5	PAS S
Band4 1	10MH z	QPSK	4062 0	50RB#0	NV	40	8.01	0.00308 9	±2.5	PAS S
Band4 1	10MH z	QPSK	4062 0	50RB#0	NV	50	-13.78	-0.00531 4	±2.5	PAS S
Band4 1	10MH z	QPSK	4154 0	50RB#0	NV	-30	-11.63	-0.00433 1	±2.5	PAS S
Band4 1	10MH z	QPSK	4154 0	50RB#0	NV	-20	-11.09	-0.00413 0	±2.5	PAS S
Band4 1	10MH z	QPSK	4154 0	50RB#0	NV	-10	-5.48	-0.00204 1	±2.5	PAS S
Band4 1	10MH z	QPSK	4154 0	50RB#0	NV	0	5.81	0.00216 4	±2.5	PAS S
Band4 1	10MH z	QPSK	4154 0	50RB#0	NV	10	-15.25	-0.00568 0	±2.5	PAS S
Band4 1	10MH z	QPSK	4154 0	50RB#0	NV	20	4.06	0.00151 2	±2.5	PAS S
Band4 1	10MH z	QPSK	4154 0	50RB#0	NV	30	-5.58	-0.00207 8	±2.5	PAS S
Band4 1	10MH z	QPSK	4154 0	50RB#0	NV	40	13.60	0.00506 5	±2.5	PAS S
Band4 1	10MH z	QPSK	4154 0	50RB#0	NV	50	3.91	0.00145 6	±2.5	PAS S
Band4 1	15MH z	QPSK	3972 5	75RB#0	NV	-30	5.69	0.00227 3	±2.5	PAS S

Band4 1	15MH z	QPSK	3972 5	75RB#0	NV	-20	-5.01	-0.00200 1	±2.5	PAS S
Band4 1	15MH z	QPSK	3972 5	75RB#0	NV	-10	10.09	0.00403 0	±2.5	PAS S
Band4 1	15MH z	QPSK	3972 5	75RB#0	NV	0	-3.59	-0.00143 4	±2.5	PAS S
Band4 1	15MH z	QPSK	3972 5	75RB#0	NV	10	-11.16	-0.00445 8	±2.5	PAS S
Band4 1	15MH z	QPSK	3972 5	75RB#0	NV	20	7.22	0.00288 4	±2.5	PAS S
Band4 1	15MH z	QPSK	3972 5	75RB#0	NV	30	4.38	0.00175 0	±2.5	PAS S
Band4 1	15MH z	QPSK	3972 5	75RB#0	NV	40	-8.88	-0.00354 7	±2.5	PAS S
Band4 1	15MH z	QPSK	3972 5	75RB#0	NV	50	-7.60	-0.00303 6	±2.5	PAS S
Band4 1	15MH z	QPSK	4062 0	75RB#0	NV	-30	-5.15	-0.00198 6	±2.5	PAS S
Band4 1	15MH z	QPSK	4062 0	75RB#0	NV	-20	-9.23	-0.00356 0	±2.5	PAS S
Band4 1	15MH z	QPSK	4062 0	75RB#0	NV	-10	-11.13	-0.00429 2	±2.5	PAS S
Band4 1	15MH z	QPSK	4062 0	75RB#0	NV	0	6.31	0.00243 3	±2.5	PAS S
Band4 1	15MH z	QPSK	4062 0	75RB#0	NV	10	-3.09	-0.00119 2	±2.5	PAS S
Band4 1	15MH z	QPSK	4062 0	75RB#0	NV	20	-14.63	-0.00564 2	±2.5	PAS S
Band4 1	15MH z	QPSK	4062 0	75RB#0	NV	30	-15.19	-0.00585 8	±2.5	PAS S
Band4 1	15MH z	QPSK	4062 0	75RB#0	NV	40	2.68	0.00103 4	±2.5	PAS S
Band4 1	15MH z	QPSK	4062 0	75RB#0	NV	50	-9.67	-0.00372 9	±2.5	PAS S
Band4 1	15MH z	QPSK	4151 5	75RB#0	NV	-30	-12.16	-0.00453 3	±2.5	PAS S
Band4 1	15MH z	QPSK	4151 5	75RB#0	NV	-20	-17.94	-0.00668 8	±2.5	PAS S
Band4 1	15MH z	QPSK	4151 5	75RB#0	NV	-10	-16.41	-0.00611 7	±2.5	PAS S
Band4 1	15MH z	QPSK	4151 5	75RB#0	NV	0	5.12	0.00190 9	±2.5	PAS S
Band4	15MH	QPSK	4151	75RB#0	NV	10	-7.82	-0.00291	±2.5	PAS

1	z		5					5		S
Band4 1	15MH z	QPSK	4151 5	75RB#0	NV	20	-12.72	-0.00474 2	±2.5	PAS S
Band4 1	15MH z	QPSK	4151 5	75RB#0	NV	30	-13.50	-0.00503 3	±2.5	PAS S
Band4 1	15MH z	QPSK	4151 5	75RB#0	NV	40	-6.24	-0.00232 6	±2.5	PAS S
Band4 1	15MH z	QPSK	4151 5	75RB#0	NV	50	-4.31	-0.00160 7	±2.5	PAS S
Band4 1	20MH z	QPSK	3975 0	100RB# 0	NV	-30	-14.55	-0.00580 6	±2.5	PAS S
Band4 1	20MH z	QPSK	3975 0	100RB# 0	NV	-20	4.52	0.00180 4	±2.5	PAS S
Band4 1	20MH z	QPSK	3975 0	100RB# 0	NV	-10	-14.05	-0.00560 7	±2.5	PAS S
Band4 1	20MH z	QPSK	3975 0	100RB# 0	NV	0	3.23	0.00128 9	±2.5	PAS S
Band4 1	20MH z	QPSK	3975 0	100RB# 0	NV	10	7.60	0.00303 3	±2.5	PAS S
Band4 1	20MH z	QPSK	3975 0	100RB# 0	NV	20	5.55	0.00221 5	±2.5	PAS S
Band4 1	20MH z	QPSK	3975 0	100RB# 0	NV	30	-14.82	-0.00591 4	±2.5	PAS S
Band4 1	20MH z	QPSK	3975 0	100RB# 0	NV	40	-3.62	-0.00144 5	±2.5	PAS S
Band4 1	20MH z	QPSK	3975 0	100RB# 0	NV	50	6.62	0.00264 2	±2.5	PAS S
Band4 1	20MH z	QPSK	4062 0	100RB# 0	NV	-30	9.90	0.00381 8	±2.5	PAS S
Band4 1	20MH z	QPSK	4062 0	100RB# 0	NV	-20	-16.44	-0.00634 0	±2.5	PAS S
Band4 1	20MH z	QPSK	4062 0	100RB# 0	NV	-10	7.41	0.00285 8	±2.5	PAS S
Band4 1	20MH z	QPSK	4062 0	100RB# 0	NV	0	-5.54	-0.00213 7	±2.5	PAS S
Band4 1	20MH z	QPSK	4062 0	100RB# 0	NV	10	-12.85	-0.00495 6	±2.5	PAS S
Band4 1	20MH z	QPSK	4062 0	100RB# 0	NV	20	-6.79	-0.00261 9	±2.5	PAS S
Band4 1	20MH z	QPSK	4062 0	100RB# 0	NV	30	-8.91	-0.00343 6	±2.5	PAS S
Band4 1	20MH z	QPSK	4062 0	100RB# 0	NV	40	-10.37	-0.00399 9	±2.5	PAS S

Band4 1	20MH z	QPSK	4062 0	100RB# 0	NV	50	5.02	0.00193 6	±2.5	PAS S
Band4 1	20MH z	QPSK	4149 0	100RB# 0	NV	-30	8.96	0.00334 3	±2.5	PAS S
Band4 1	20MH z	QPSK	4149 0	100RB# 0	NV	-20	-10.40	-0.00388 1	±2.5	PAS S
Band4 1	20MH z	QPSK	4149 0	100RB# 0	NV	-10	2.92	0.00109 0	±2.5	PAS S
Band4 1	20MH z	QPSK	4149 0	100RB# 0	NV	0	-14.23	-0.00531 0	±2.5	PAS S
Band4 1	20MH z	QPSK	4149 0	100RB# 0	NV	10	-18.48	-0.00689 6	±2.5	PAS S
Band4 1	20MH z	QPSK	4149 0	100RB# 0	NV	20	-16.52	-0.00616 4	±2.5	PAS S
Band4 1	20MH z	QPSK	4149 0	100RB# 0	NV	30	3.79	0.00141 4	±2.5	PAS S
Band4 1	20MH z	QPSK	4149 0	100RB# 0	NV	40	-10.57	-0.00394 4	±2.5	PAS S
Band4 1	20MH z	QPSK	4149 0	100RB# 0	NV	50	-12.82	-0.00478 4	±2.5	PAS S

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band41	5MHz	QPSK	39675	25RB#0	PASS
Band41	5MHz	16QAM	39675	25RB#0	PASS
Band41	5MHz	QPSK	40620	25RB#0	PASS
Band41	5MHz	16QAM	40620	25RB#0	PASS
Band41	5MHz	QPSK	41565	25RB#0	PASS
Band41	5MHz	16QAM	41565	25RB#0	PASS
Band41	10MHz	QPSK	39700	50RB#0	PASS
Band41	10MHz	QPSK	40620	50RB#0	PASS
Band41	10MHz	QPSK	41540	50RB#0	PASS
Band41	10MHz	16QAM	39700	1RB#0	PASS
Band41	10MHz	16QAM	40620	1RB#0	PASS
Band41	10MHz	16QAM	41540	1RB#0	PASS
Band41	15MHz	QPSK	39725	75RB#0	PASS
Band41	15MHz	QPSK	40620	75RB#0	PASS
Band41	15MHz	QPSK	41515	75RB#0	PASS
Band41	15MHz	16QAM	39725	1RB#0	PASS
Band41	15MHz	16QAM	40620	1RB#0	PASS
Band41	15MHz	16QAM	41515	1RB#0	PASS
Band41	20MHz	QPSK	39750	100RB#0	PASS
Band41	20MHz	QPSK	40620	100RB#0	PASS
Band41	20MHz	QPSK	41490	100RB#0	PASS
Band41	20MHz	16QAM	39750	1RB#0	PASS
Band41	20MHz	16QAM	40620	1RB#0	PASS
Band41	20MHz	16QAM	41490	1RB#0	PASS

Test Graphs

