

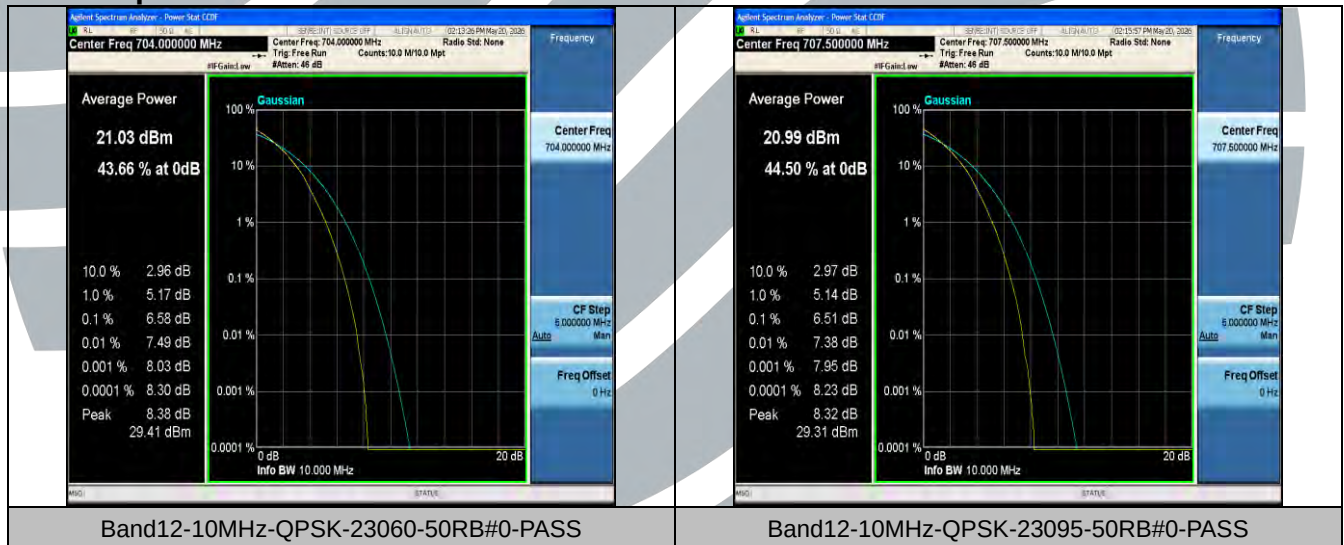
APPENDIX B LTE BAND 12 RF TEST DATA

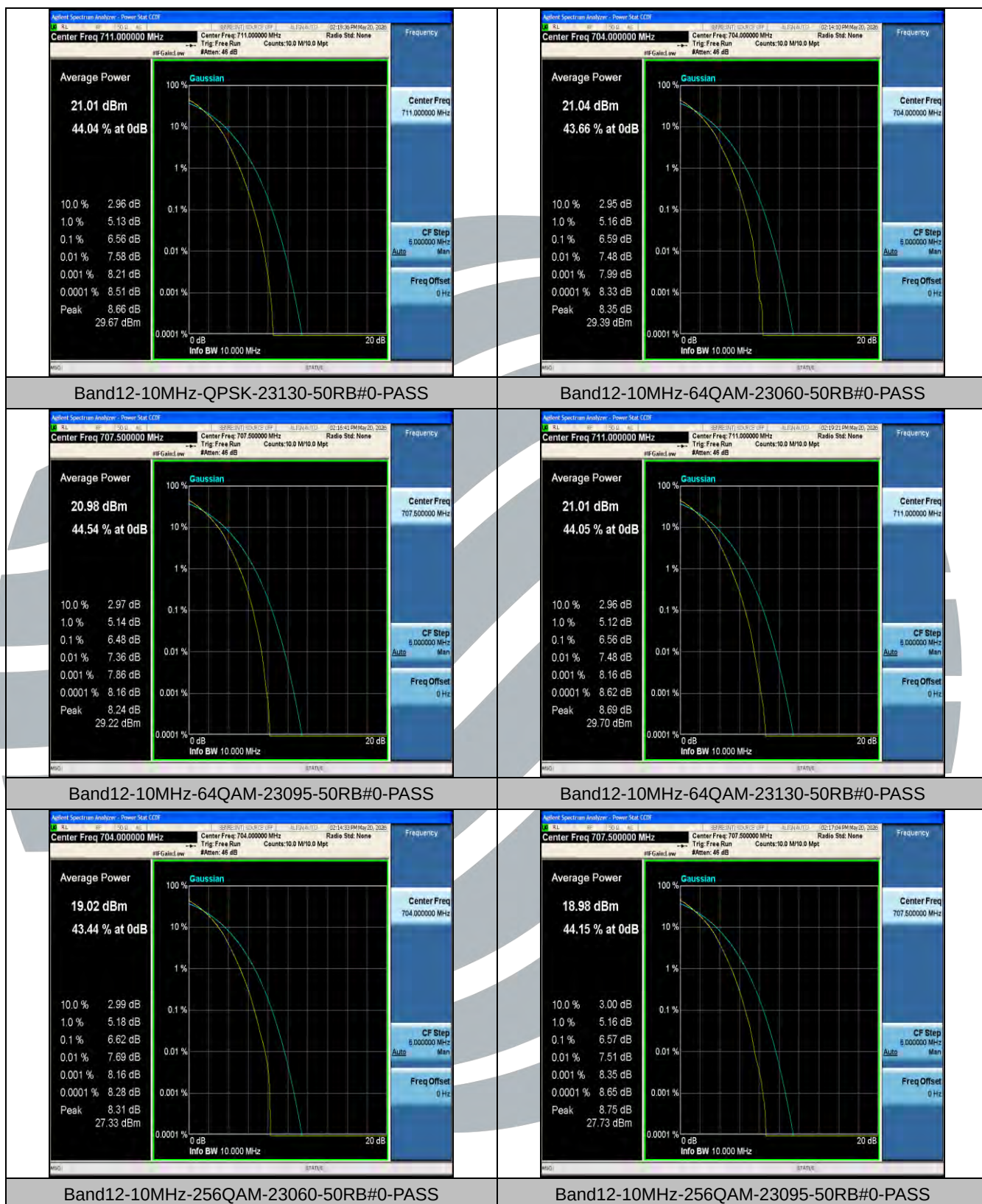
B.1 PEAK-TO-AVERAGE RATIO(CCDF)

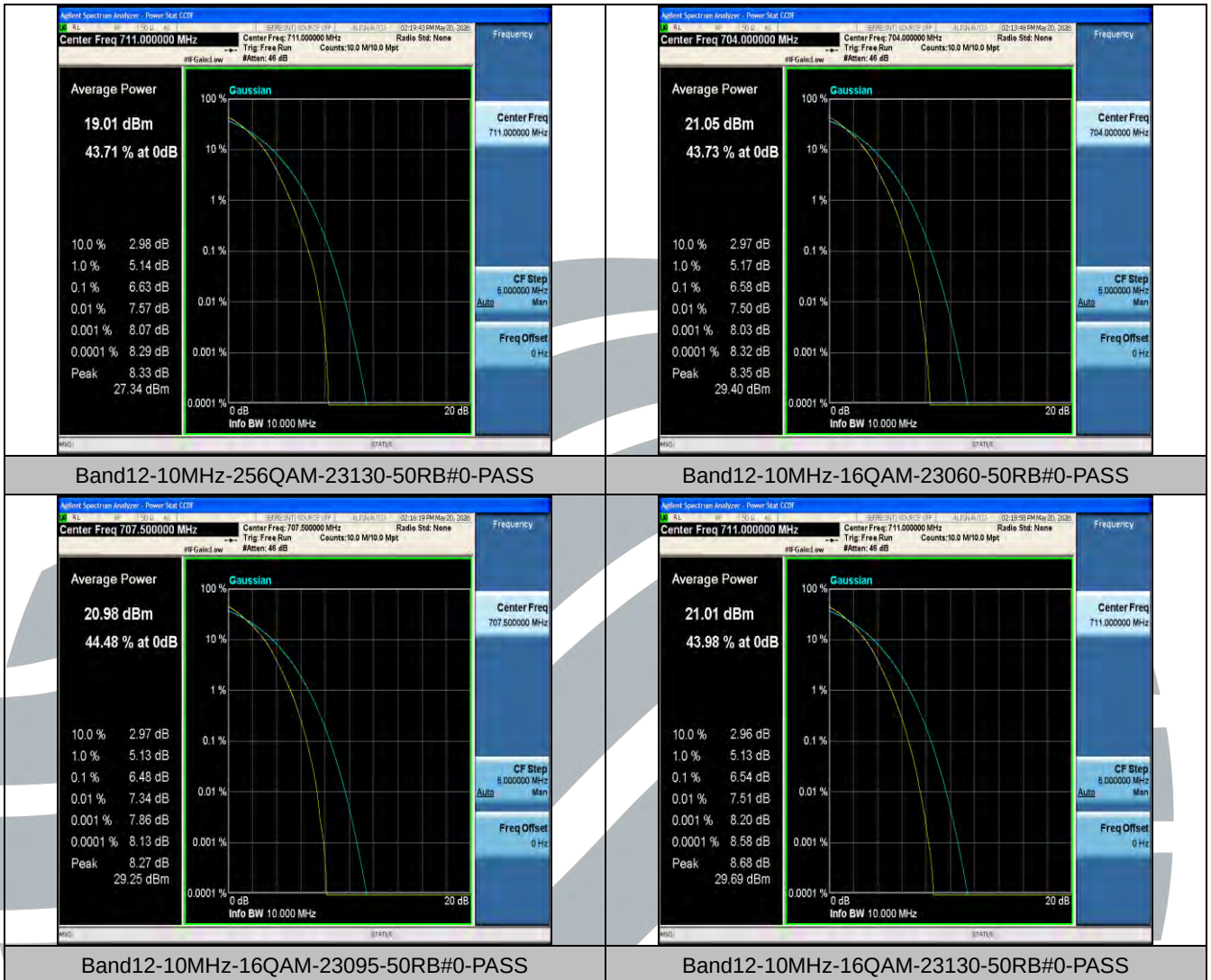
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	6.58	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	6.51	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	6.56	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.59	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.48	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.56	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	6.62	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.57	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.63	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.58	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.48	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.54	13	PASS

Test Graphs





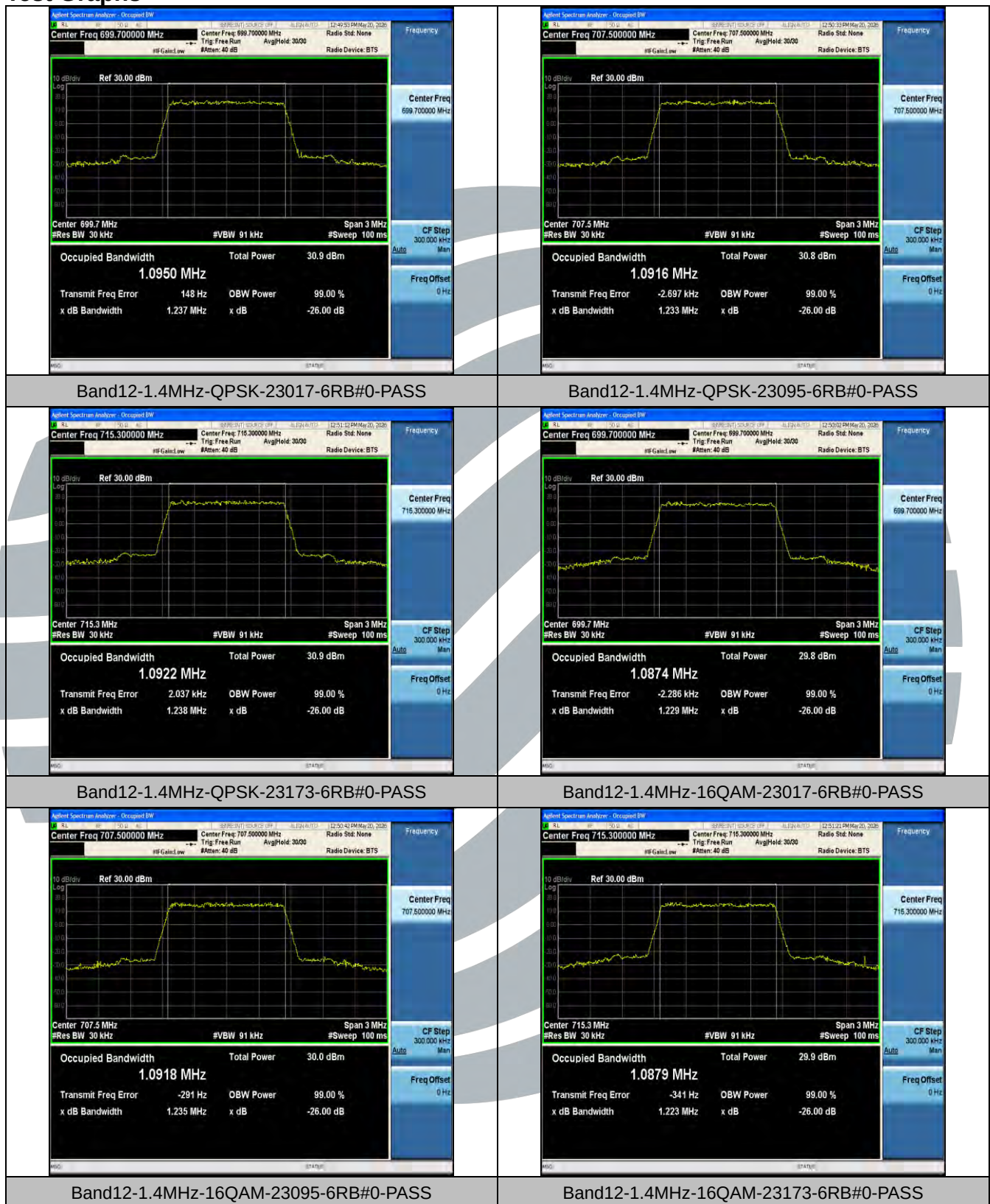


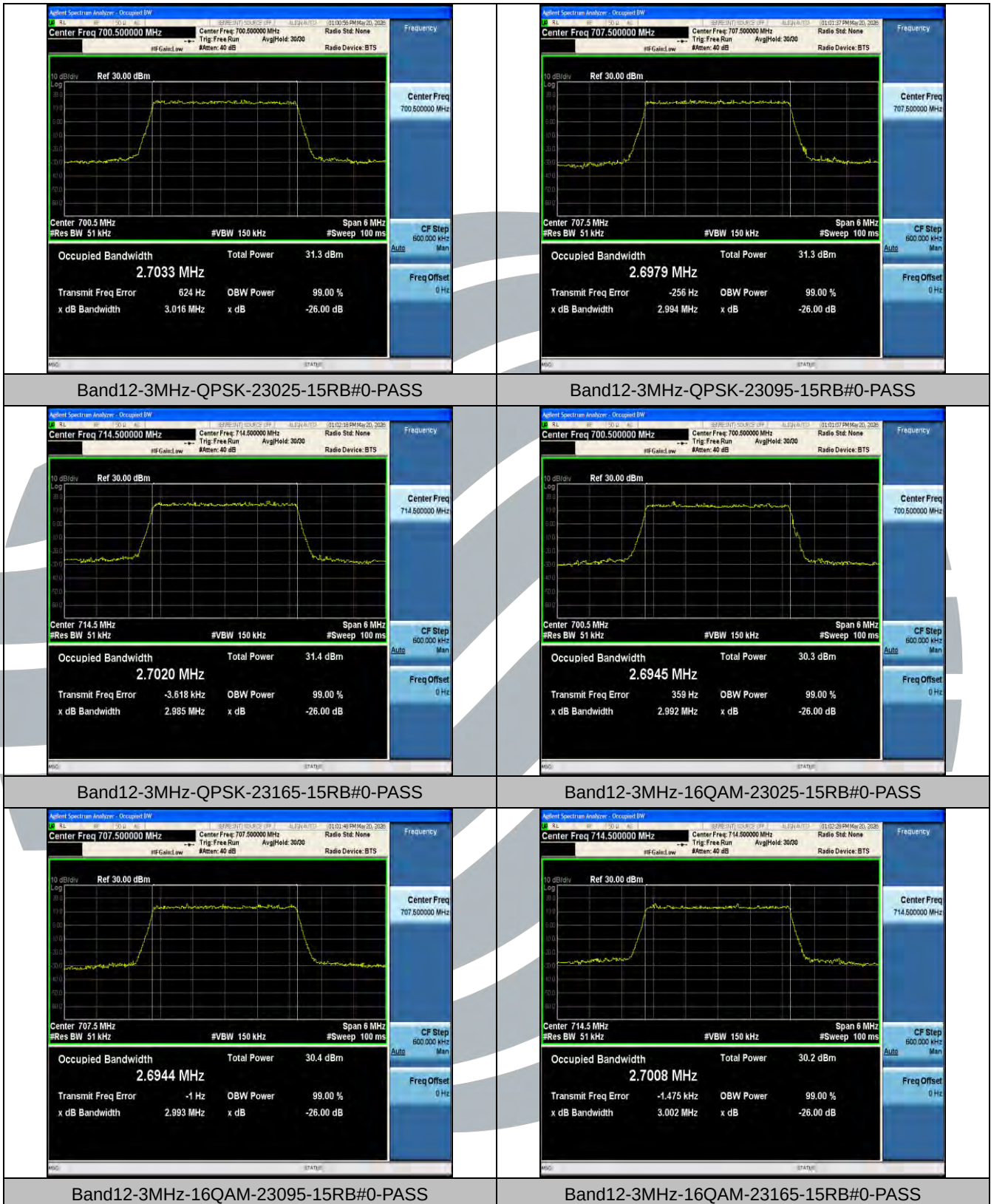
B.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

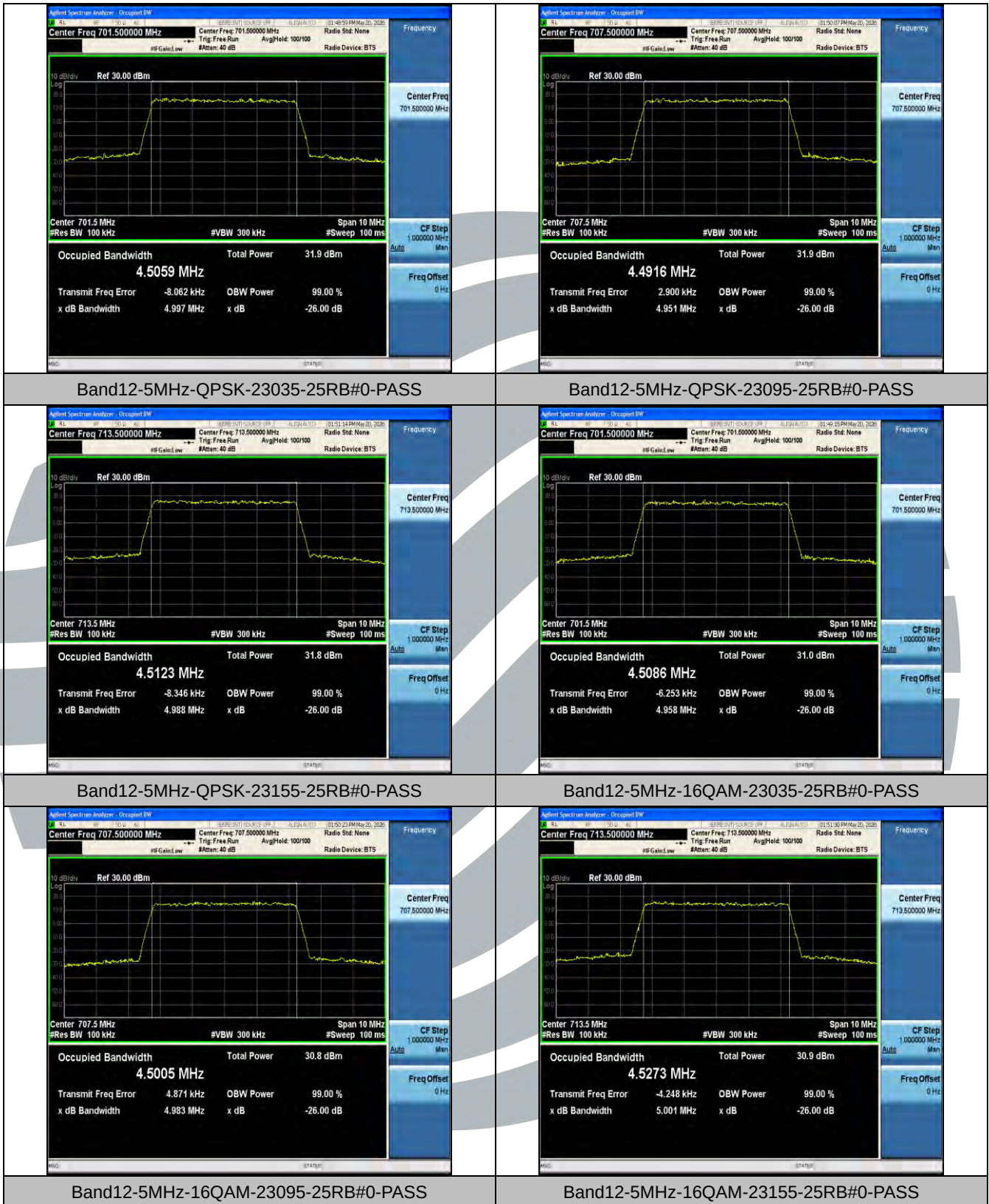
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0950	1.237	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0916	1.233	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0922	1.238	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0874	1.229	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0918	1.235	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0879	1.223	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7033	3.016	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6979	2.994	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7020	2.985	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6945	2.992	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6944	2.993	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7008	3.002	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5059	4.997	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4916	4.951	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5123	4.988	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5086	4.958	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5005	4.983	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5273	5.001	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9962	9.858	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9591	9.791	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9605	9.802	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9971	9.824	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9484	9.786	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9479	9.774	PASS

Test Graphs







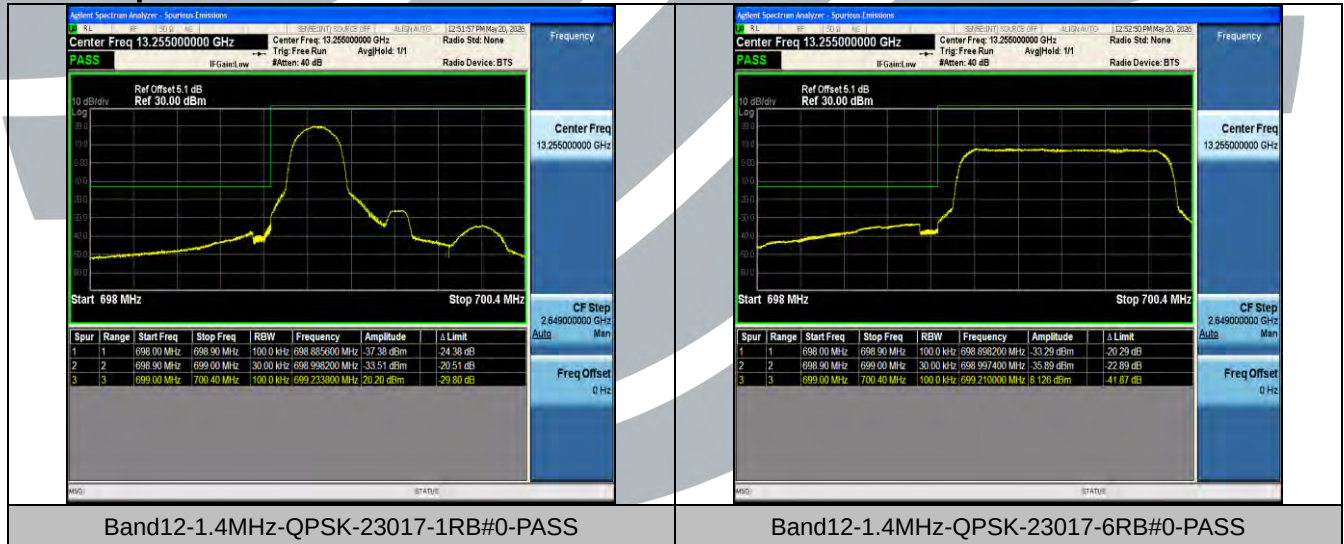


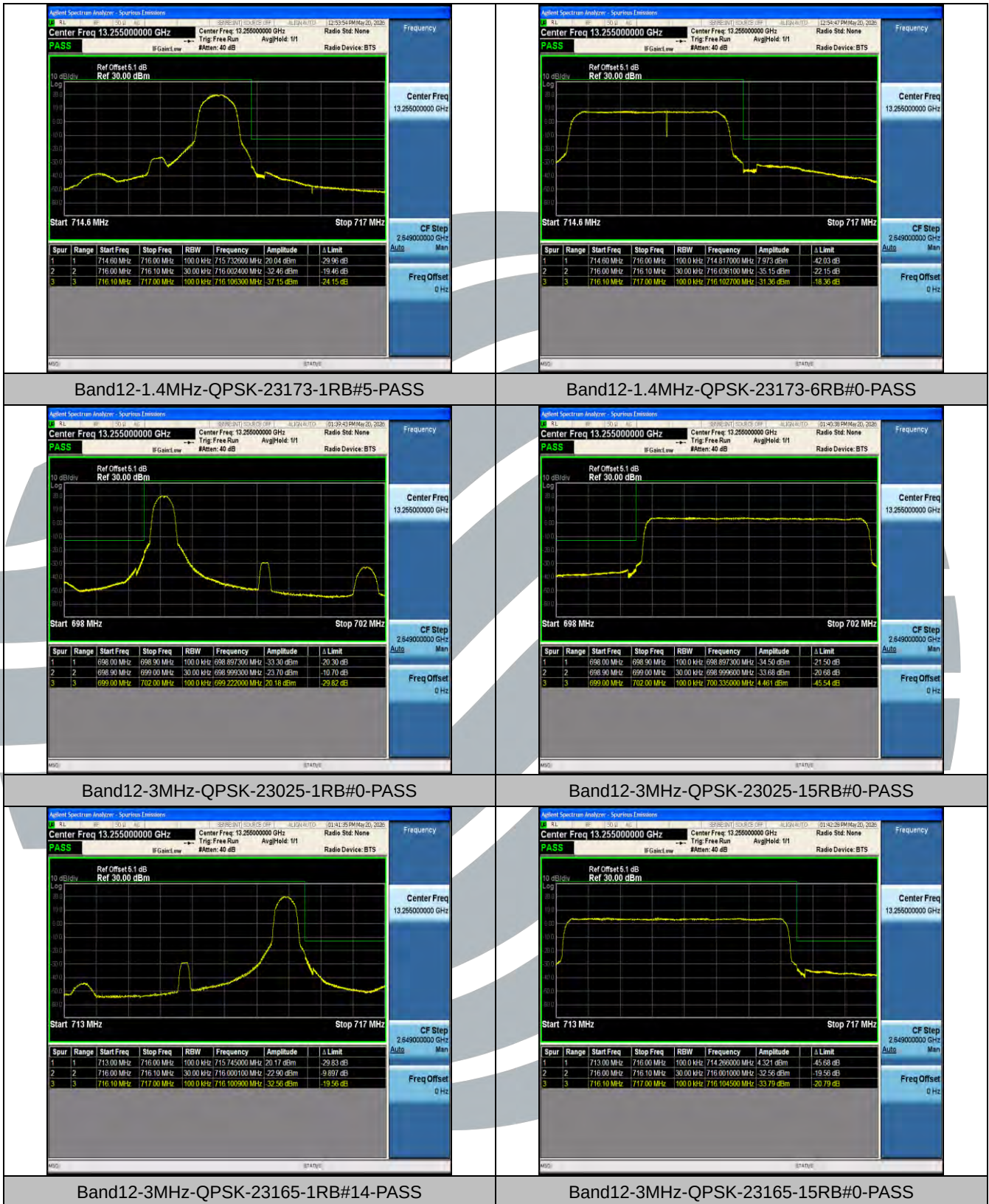
B.3 BAND EDGE

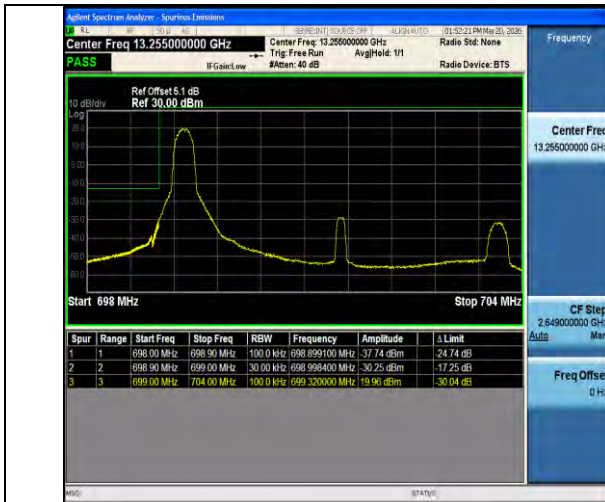
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-33.51	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-33.29	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-32.46	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-31.36	PASS
Band12	3MHz	QPSK	23025	1RB#0	-23.70	PASS
Band12	3MHz	QPSK	23025	15RB#0	-33.68	PASS
Band12	3MHz	QPSK	23165	1RB#14	-22.90	PASS
Band12	3MHz	QPSK	23165	15RB#0	-32.56	PASS
Band12	5MHz	QPSK	23035	1RB#0	-30.25	PASS
Band12	5MHz	QPSK	23035	25RB#0	-36.81	PASS
Band12	5MHz	QPSK	23155	1RB#24	-29.63	PASS
Band12	5MHz	QPSK	23155	25RB#0	-36.67	PASS
Band12	10MHz	QPSK	23060	1RB#0	-41.82	PASS
Band12	10MHz	QPSK	23060	50RB#0	-38.35	PASS
Band12	10MHz	QPSK	23130	1RB#49	-43.41	PASS
Band12	10MHz	QPSK	23130	50RB#0	-40.04	PASS

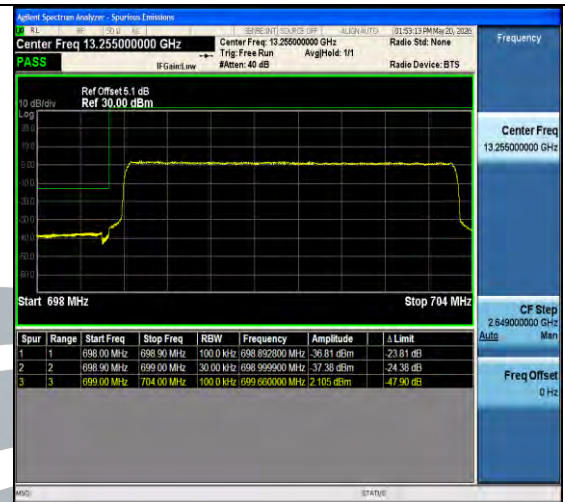
Test Graphs



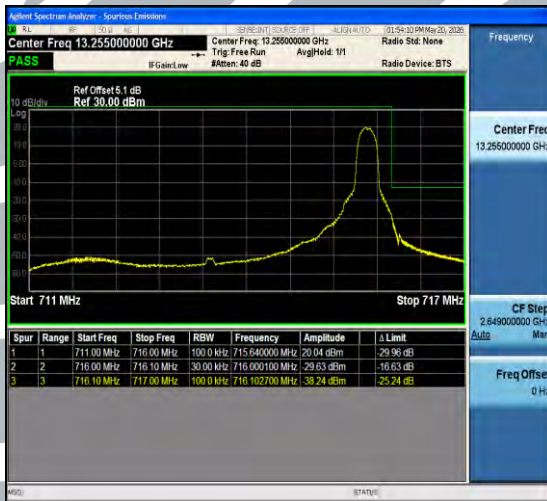




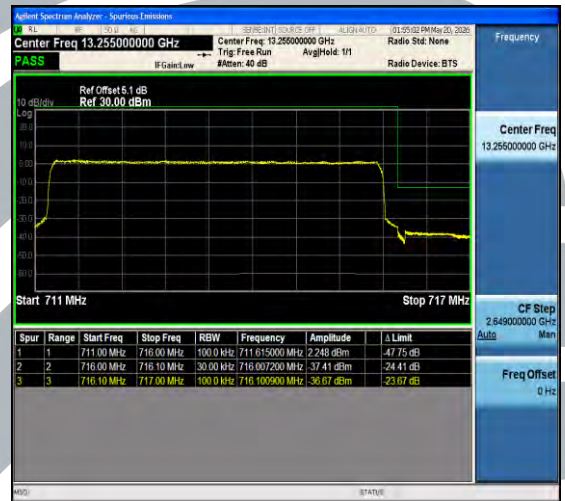
Band12-5MHz-QPSK-23035-1RB#0-PASS



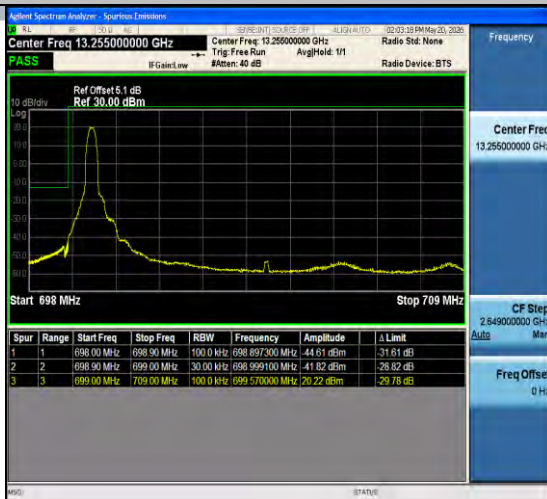
Band12-5MHz-QPSK-23035-25RB#0-PASS



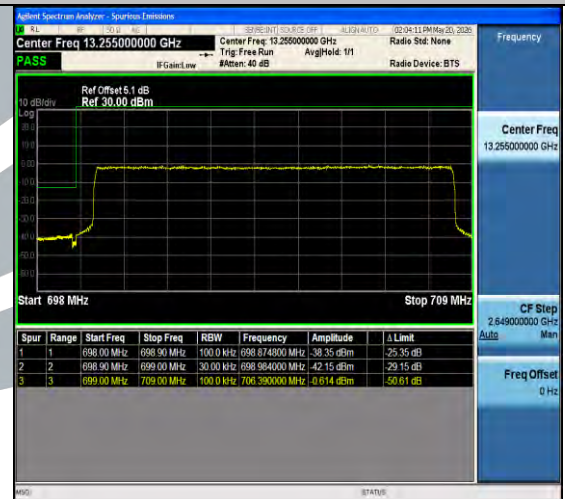
Band12-5MHz-QPSK-23155-1RB#24-PASS



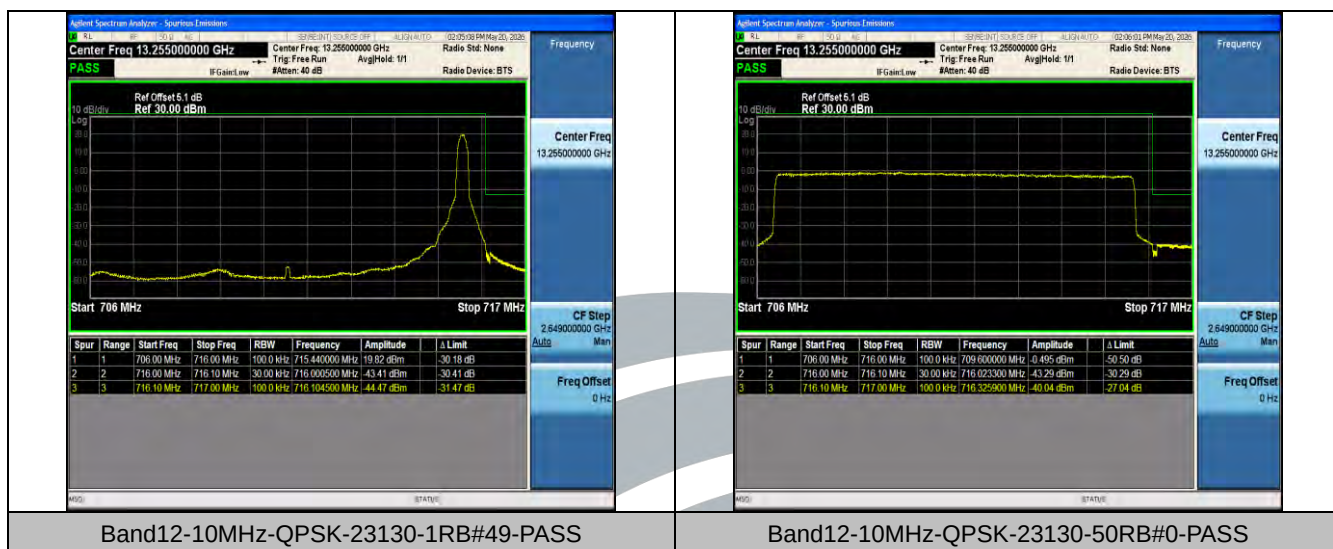
Band12-5MHz-QPSK-23155-25RB#0-PASS



Band12-10MHz-QPSK-23060-1RB#0-PASS



Band12-10MHz-QPSK-23060-50RB#0-PASS

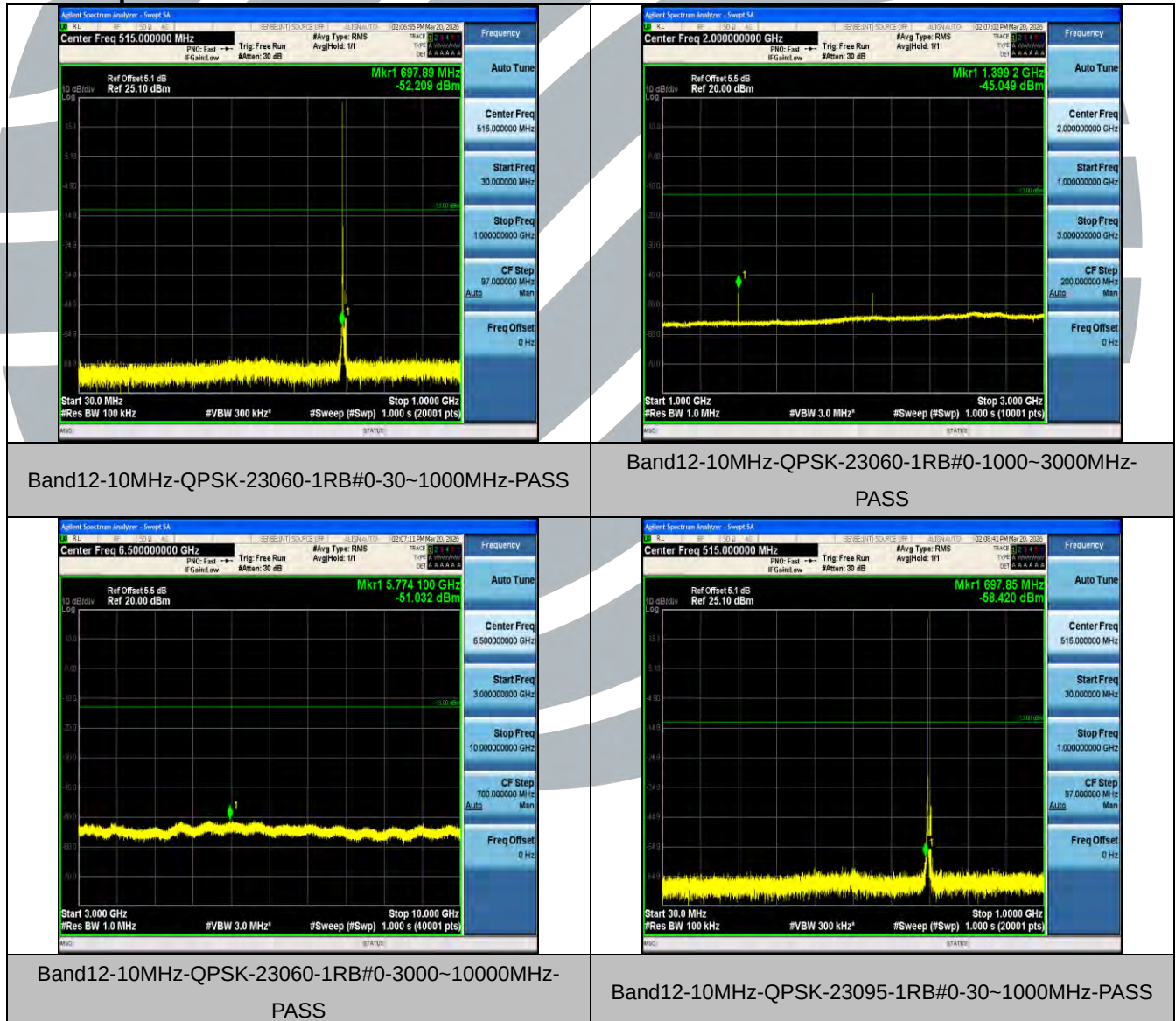


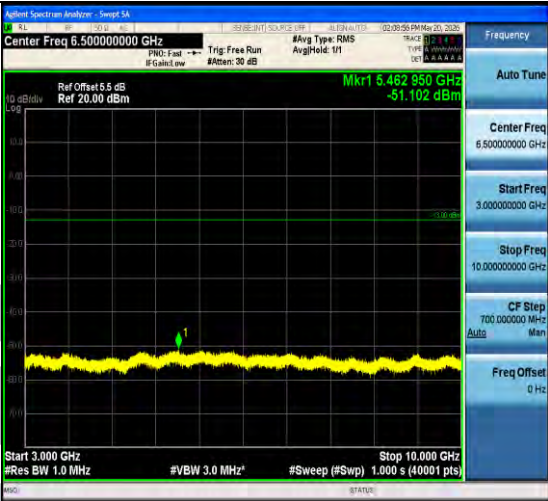
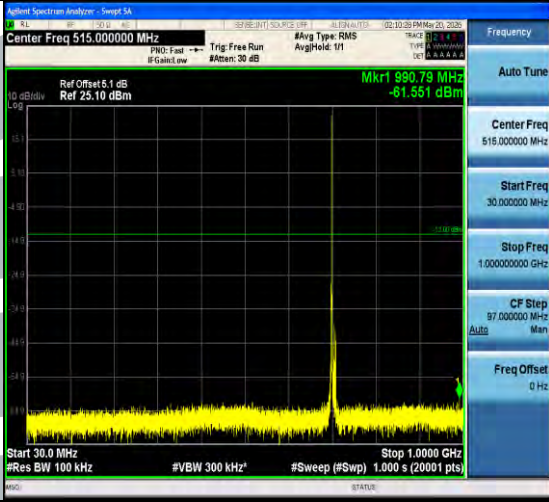
B.4 CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range (MHz)	Result (dBm)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	30~1000	-52.21	PASS
Band12	10MHz	QPSK	23060	1RB#0	1000~3000	-45.05	PASS
Band12	10MHz	QPSK	23060	1RB#0	3000~10000	-51.03	PASS
Band12	10MHz	QPSK	23095	1RB#0	30~1000	-58.42	PASS
Band12	10MHz	QPSK	23095	1RB#0	1000~3000	-45.30	PASS
Band12	10MHz	QPSK	23095	1RB#0	3000~10000	-51.10	PASS
Band12	10MHz	QPSK	23130	1RB#0	30~1000	-61.55	PASS
Band12	10MHz	QPSK	23130	1RB#0	1000~3000	-44.59	PASS
Band12	10MHz	QPSK	23130	1RB#0	3000~10000	-51.04	PASS

Test Graphs



	
Band12-10MHz-QPSK-23095-1RB#0-1000~3000MHz- PASS	Band12-10MHz-QPSK-23095-1RB#0-3000~10000MHz- PASS
	
Band12-10MHz-QPSK-23130-1RB#0-30~1000MHz-PASS	Band12-10MHz-QPSK-23130-1RB#0-1000~3000MHz- PASS
	N/A
Band12-10MHz-QPSK-23130-1RB#0-3000~10000MHz- PASS	



B.5 FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	1.12	0.001583	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-2.75	-0.003887	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	2.99	0.004226	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-2.33	-0.003293	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-2.72	-0.003845	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	1.47	0.002078	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	1.60	0.002261	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-2.39	-0.003378	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-2.73	-0.003859	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	1.76	0.002488	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	2.79	0.003943	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	2.16	0.003053	±2.5	PASS