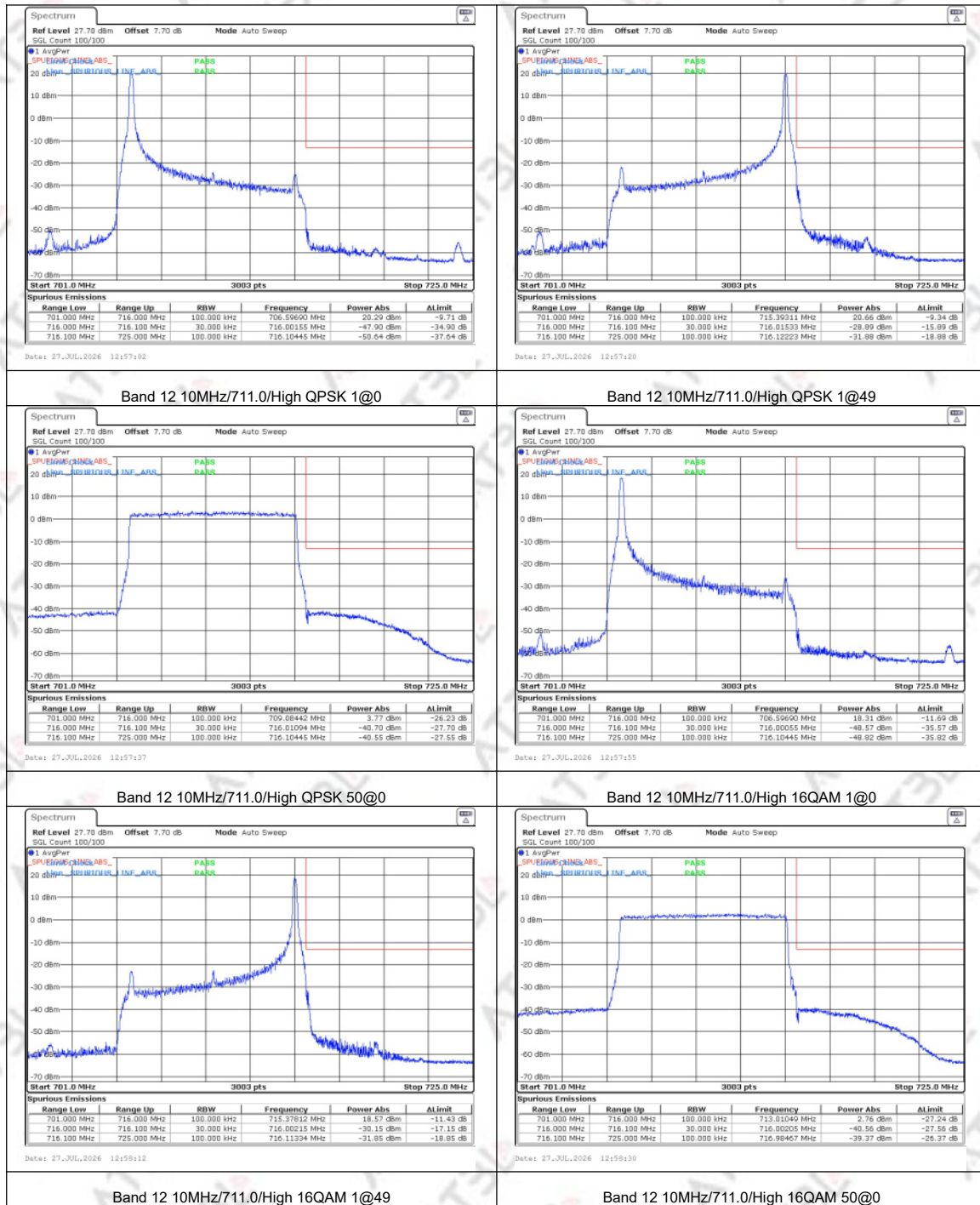


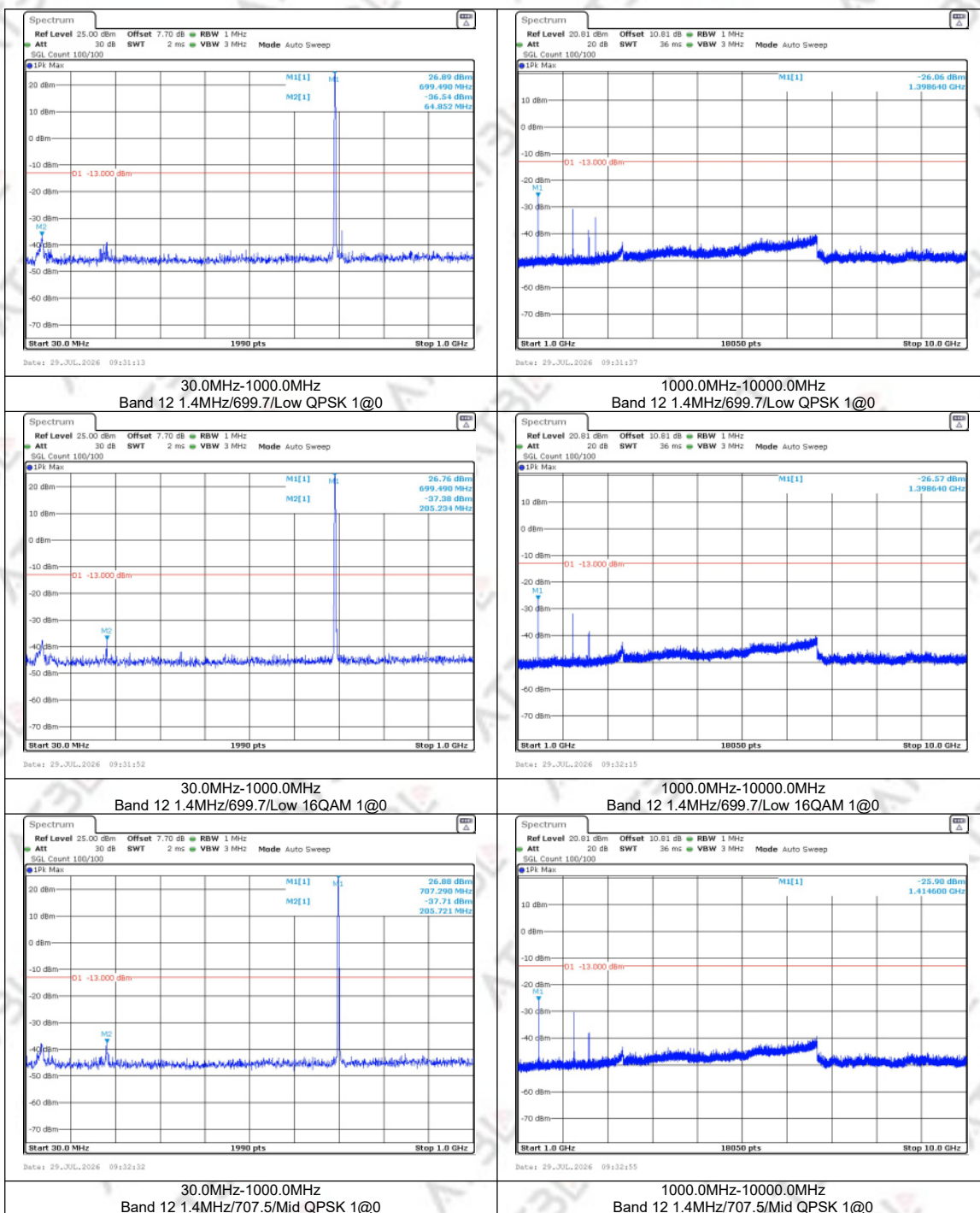


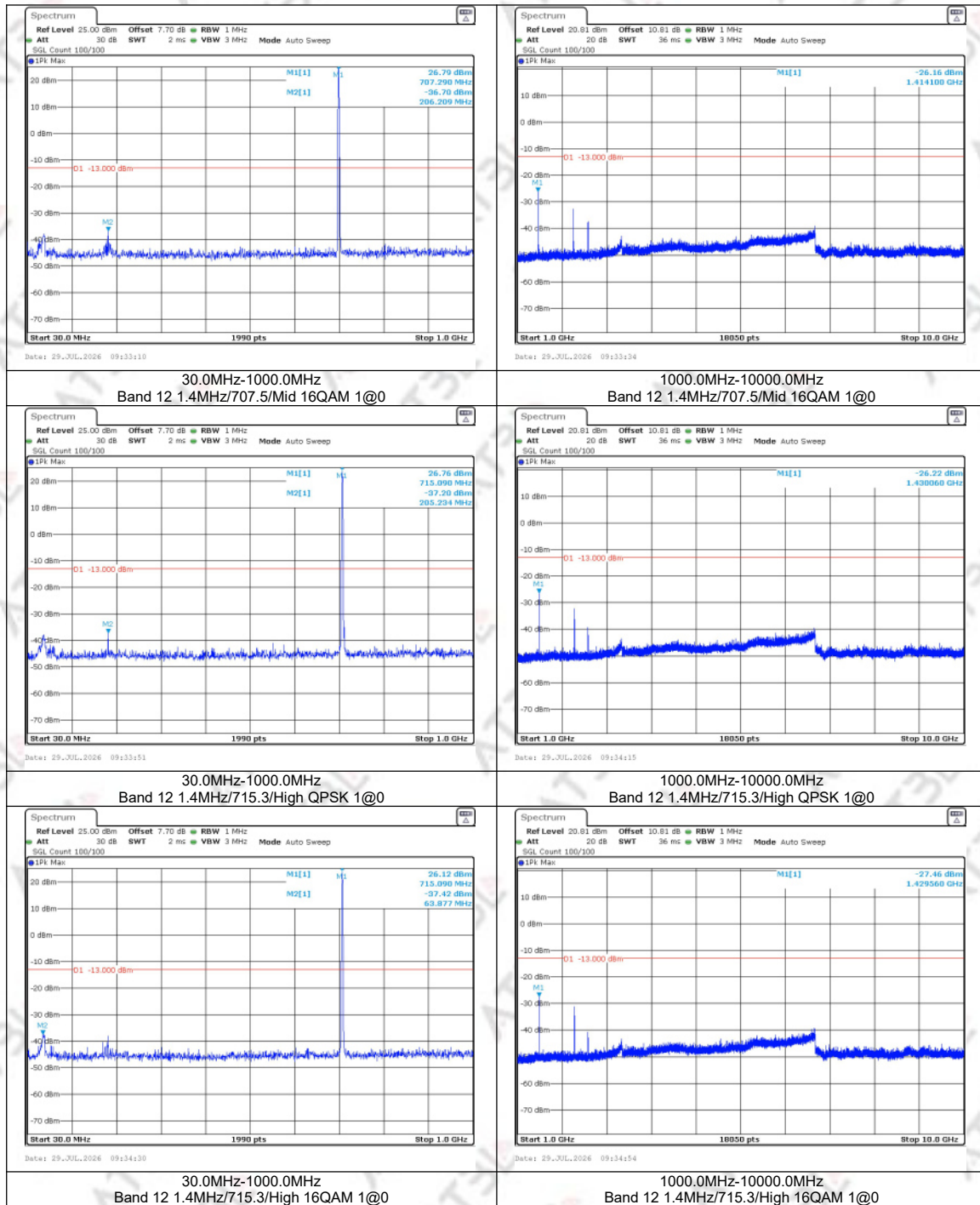
5. Conducted Spurious Emissions

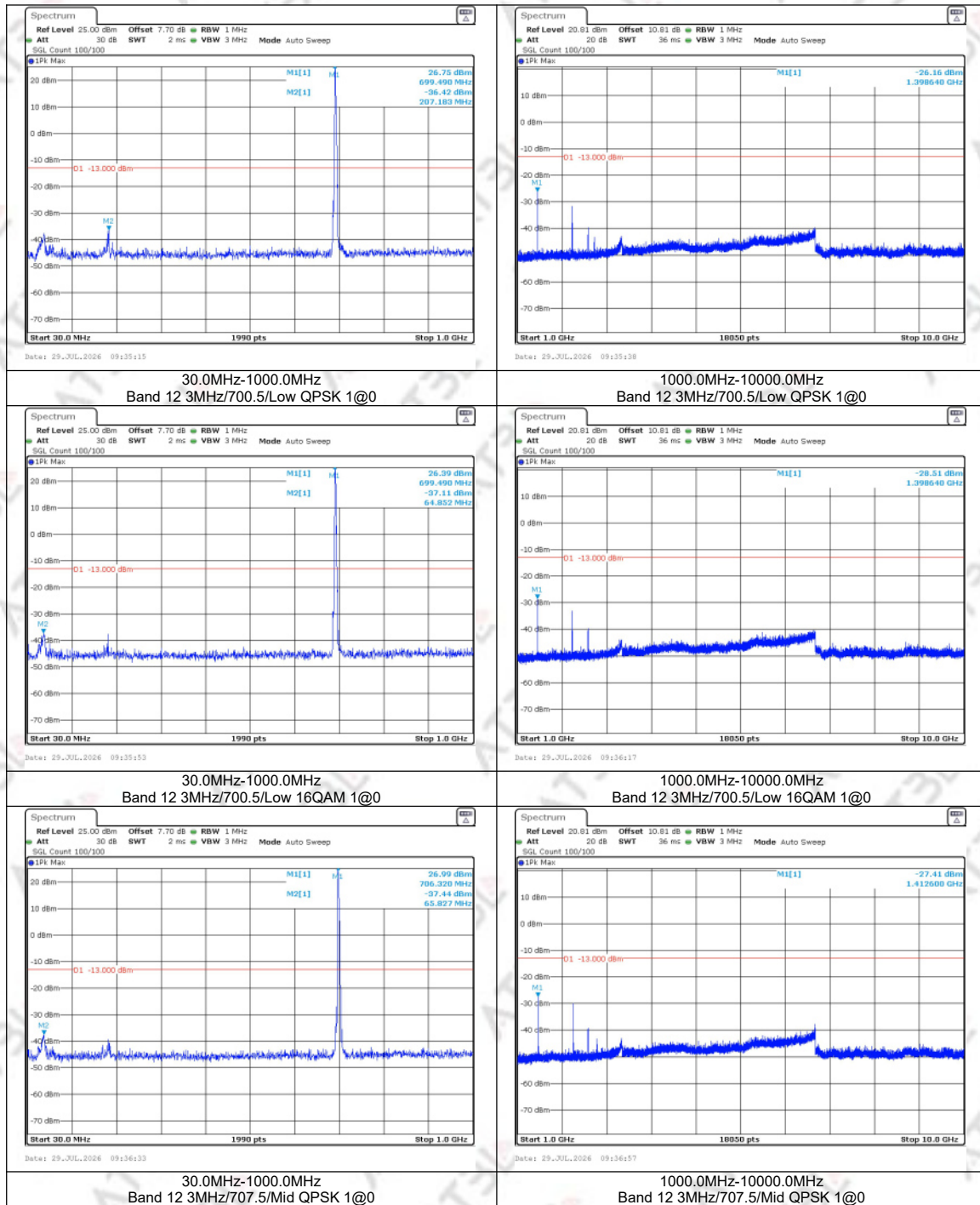
Test Result

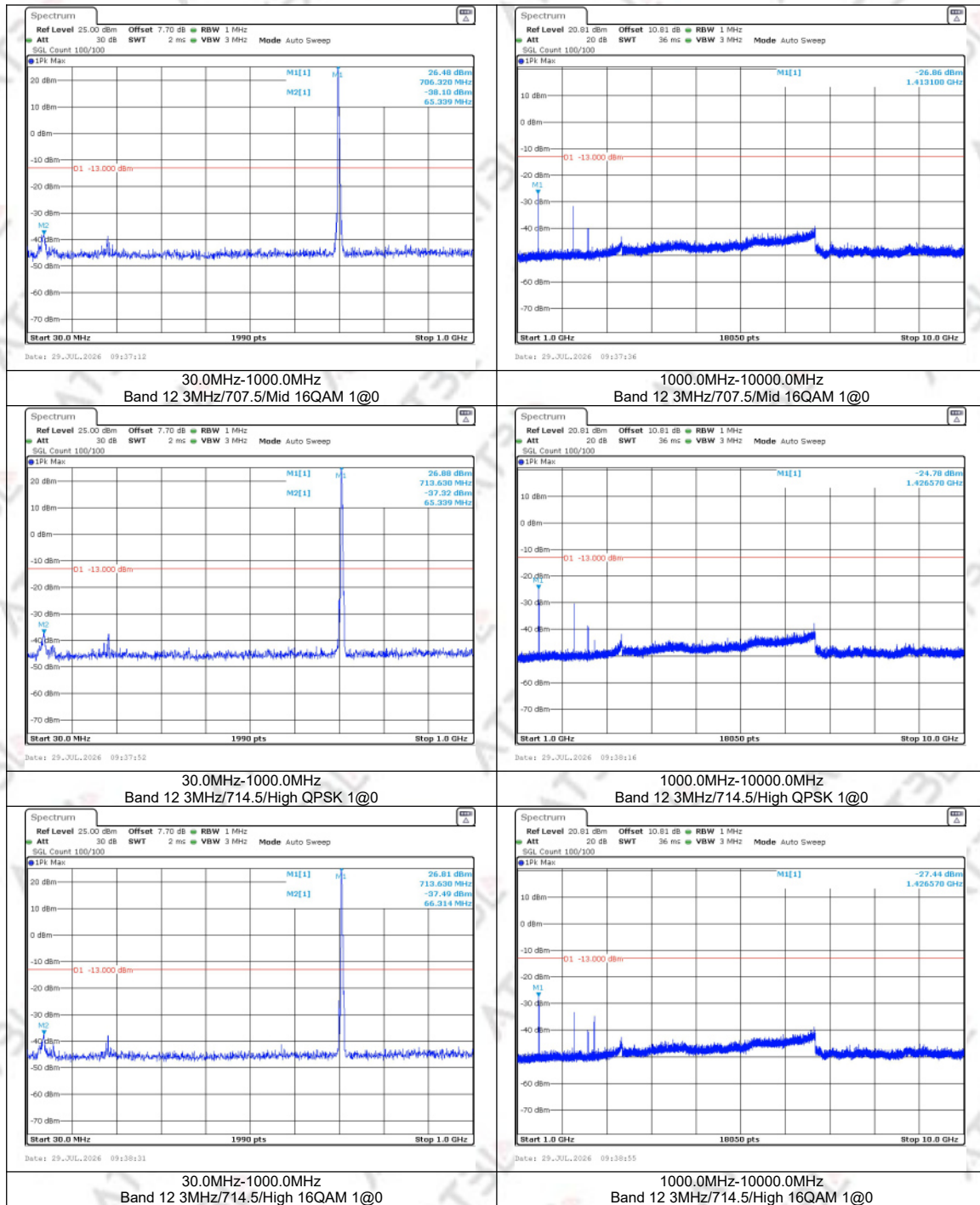
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
12	1.4	23017	699.7	QPSK	1@0	30	1000	-36.54	-13	PASS
12	1.4	23017	699.7	QPSK	1@0	1000	10000	-26.06	-13	PASS
12	1.4	23017	699.7	16QAM	1@0	30	1000	-37.38	-13	PASS
12	1.4	23017	699.7	16QAM	1@0	1000	10000	-26.57	-13	PASS
12	1.4	23095	707.5	QPSK	1@0	30	1000	-37.71	-13	PASS
12	1.4	23095	707.5	QPSK	1@0	1000	10000	-25.9	-13	PASS
12	1.4	23095	707.5	16QAM	1@0	30	1000	-36.7	-13	PASS
12	1.4	23095	707.5	16QAM	1@0	1000	10000	-26.16	-13	PASS
12	1.4	23173	715.3	QPSK	1@0	30	1000	-37.2	-13	PASS
12	1.4	23173	715.3	QPSK	1@0	1000	10000	-26.22	-13	PASS
12	1.4	23173	715.3	16QAM	1@0	30	1000	-37.42	-13	PASS
12	1.4	23173	715.3	16QAM	1@0	1000	10000	-27.46	-13	PASS
12	3.0	23025	700.5	QPSK	1@0	30	1000	-36.42	-13	PASS
12	3.0	23025	700.5	QPSK	1@0	1000	10000	-26.16	-13	PASS
12	3.0	23025	700.5	16QAM	1@0	30	1000	-37.11	-13	PASS
12	3.0	23025	700.5	16QAM	1@0	1000	10000	-28.51	-13	PASS
12	3.0	23095	707.5	QPSK	1@0	30	1000	-37.44	-13	PASS
12	3.0	23095	707.5	QPSK	1@0	1000	10000	-27.41	-13	PASS
12	3.0	23095	707.5	16QAM	1@0	30	1000	-38.1	-13	PASS
12	3.0	23095	707.5	16QAM	1@0	1000	10000	-26.86	-13	PASS
12	3.0	23165	714.5	QPSK	1@0	30	1000	-37.32	-13	PASS
12	3.0	23165	714.5	QPSK	1@0	1000	10000	-24.78	-13	PASS
12	3.0	23165	714.5	16QAM	1@0	30	1000	-37.49	-13	PASS
12	3.0	23165	714.5	16QAM	1@0	1000	10000	-27.44	-13	PASS
12	5.0	23035	701.5	QPSK	1@0	30	1000	-37.45	-13	PASS
12	5.0	23035	701.5	QPSK	1@0	1000	10000	-26.43	-13	PASS
12	5.0	23035	701.5	16QAM	1@0	30	1000	-37.15	-13	PASS
12	5.0	23035	701.5	16QAM	1@0	1000	10000	-26.61	-13	PASS
12	5.0	23095	707.5	QPSK	1@0	30	1000	-38.04	-13	PASS
12	5.0	23095	707.5	QPSK	1@0	1000	10000	-24.93	-13	PASS
12	5.0	23095	707.5	16QAM	1@0	30	1000	-37.48	-13	PASS
12	5.0	23095	707.5	16QAM	1@0	1000	10000	-27.97	-13	PASS
12	5.0	23155	713.5	QPSK	1@0	30	1000	-37.55	-13	PASS
12	5.0	23155	713.5	QPSK	1@0	1000	10000	-26.38	-13	PASS
12	5.0	23155	713.5	16QAM	1@0	30	1000	-37.94	-13	PASS
12	5.0	23155	713.5	16QAM	1@0	1000	10000	-26.51	-13	PASS
12	10.0	23060	704.0	QPSK	1@0	30	1000	-37.99	-13	PASS
12	10.0	23060	704.0	QPSK	1@0	1000	10000	-25.99	-13	PASS
12	10.0	23060	704.0	16QAM	1@0	30	1000	-37.06	-13	PASS
12	10.0	23060	704.0	16QAM	1@0	1000	10000	-30.13	-13	PASS
12	10.0	23095	707.5	QPSK	1@0	30	1000	-37.28	-13	PASS
12	10.0	23095	707.5	QPSK	1@0	1000	10000	-25.15	-13	PASS
12	10.0	23095	707.5	16QAM	1@0	30	1000	-37.59	-13	PASS
12	10.0	23095	707.5	16QAM	1@0	1000	10000	-25.86	-13	PASS
12	10.0	23130	711.0	QPSK	1@0	30	1000	-37.49	-13	PASS
12	10.0	23130	711.0	QPSK	1@0	1000	10000	-26.43	-13	PASS
12	10.0	23130	711.0	16QAM	1@0	30	1000	-37.73	-13	PASS
12	10.0	23130	711.0	16QAM	1@0	1000	10000	-28.24	-13	PASS

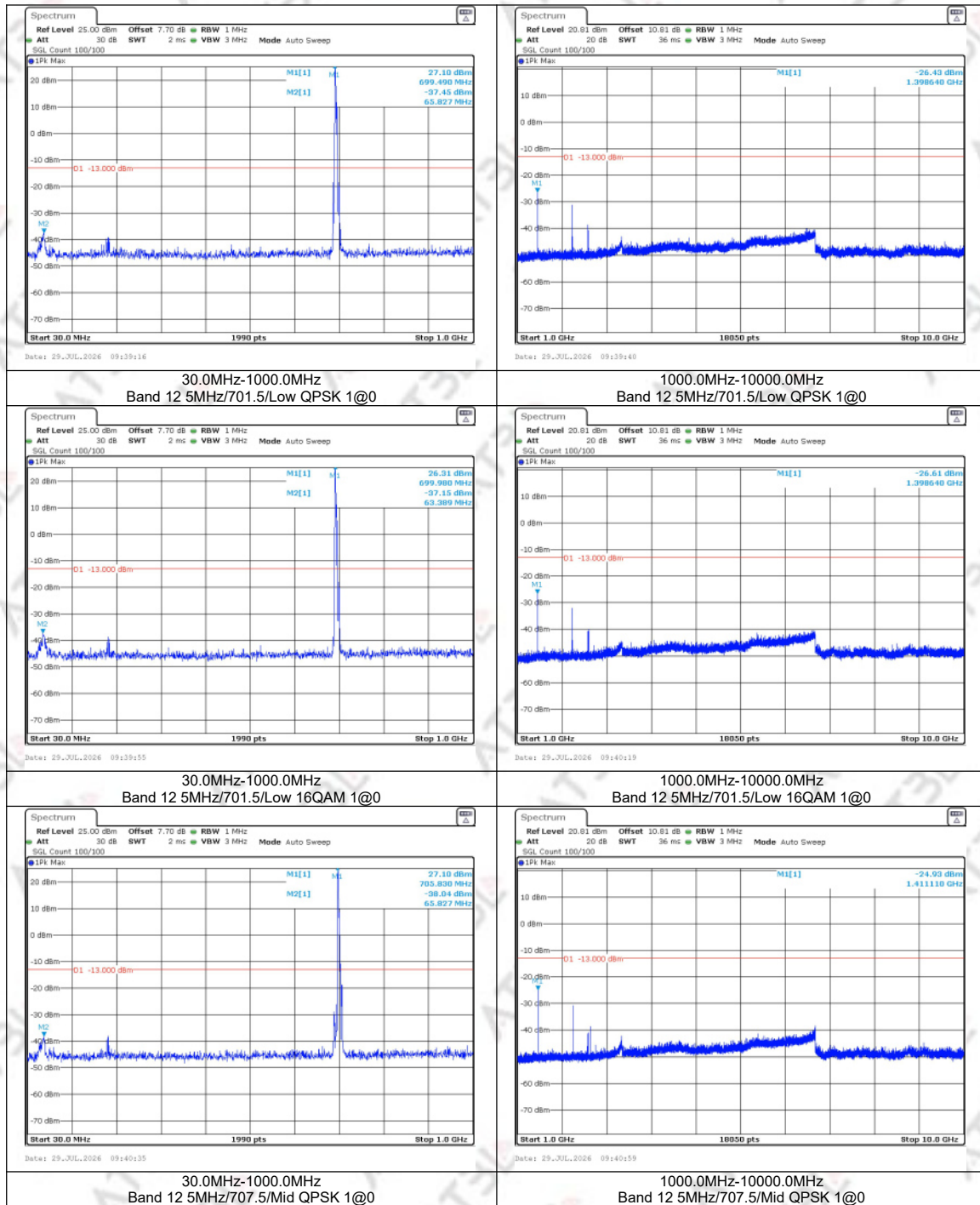
Test Graphs

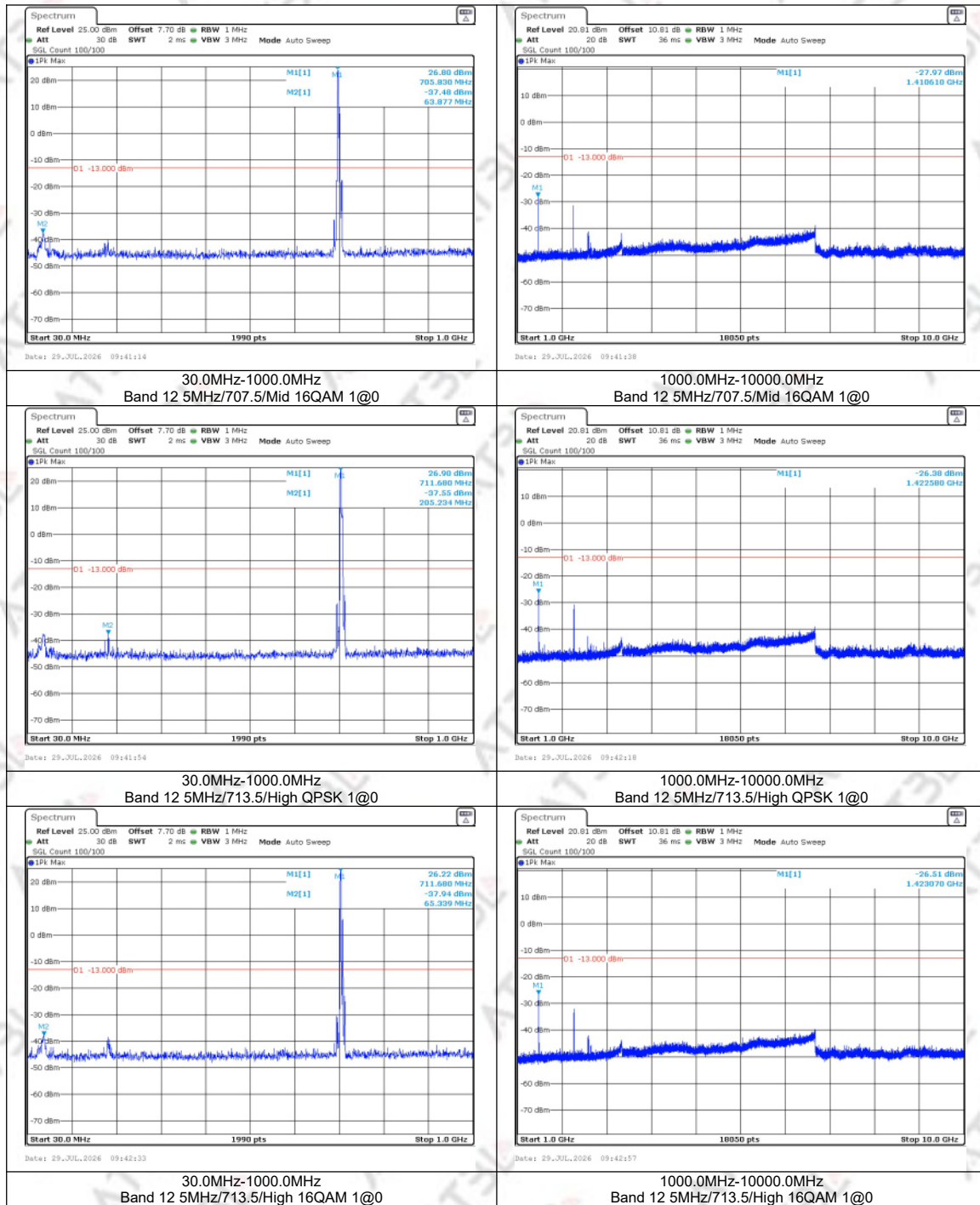


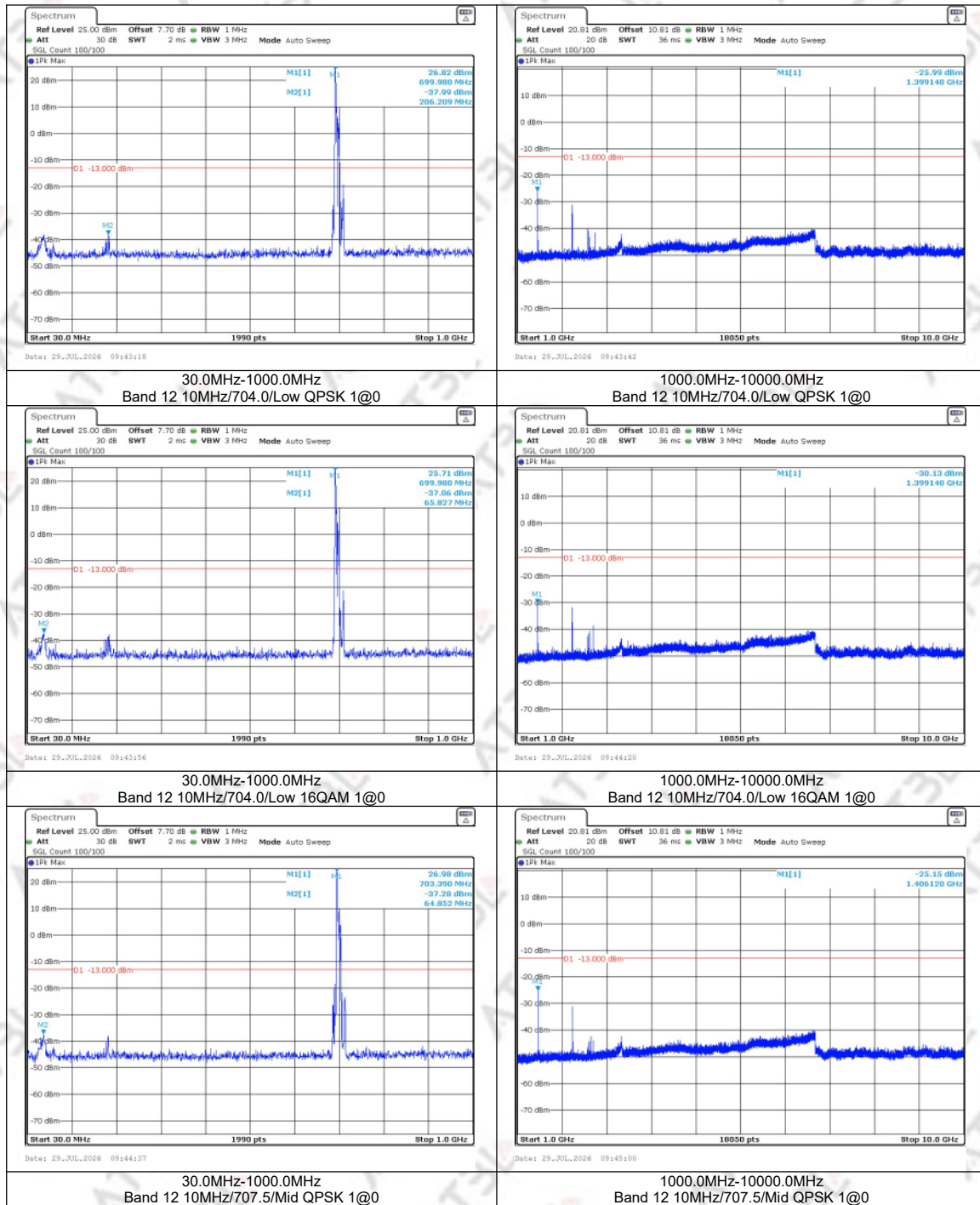


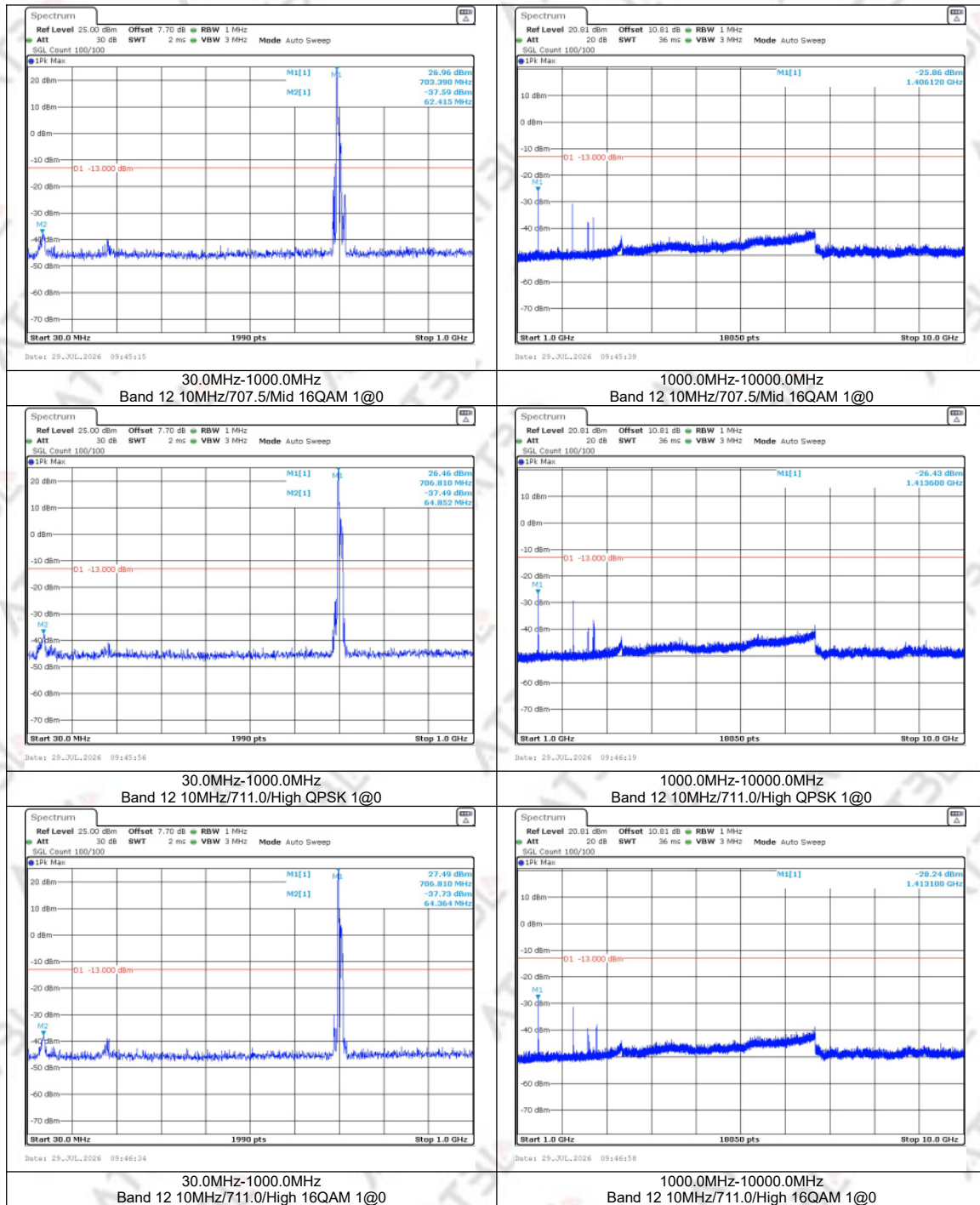












6.Frequency Stability-TN/VN

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
12	1.4	23017	699.7	QPSK	6@0	-10.21	-0.0146	±2.5	PASS	TN/VN
12	1.4	23017	699.7	16QAM	6@0	-32.77	-0.04684	±2.5	PASS	TN/VN
12	1.4	23095	707.5	QPSK	6@0	-9.74	-0.01377	±2.5	PASS	TN/VN
12	1.4	23095	707.5	16QAM	6@0	-22.87	-0.03233	±2.5	PASS	TN/VN
12	1.4	23173	715.3	QPSK	6@0	-11.9	-0.01664	±2.5	PASS	TN/VN
12	1.4	23173	715.3	16QAM	6@0	-22.77	-0.03184	±2.5	PASS	TN/VN
12	3.0	23025	700.5	QPSK	15@0	10.06	0.01436	±2.5	PASS	TN/VN
12	3.0	23025	700.5	16QAM	15@0	-9.13	-0.01303	±2.5	PASS	TN/VN
12	3.0	23095	707.5	QPSK	15@0	-8.44	-0.01193	±2.5	PASS	TN/VN
12	3.0	23095	707.5	16QAM	15@0	-21.3	-0.03011	±2.5	PASS	TN/VN
12	3.0	23165	714.5	QPSK	15@0	-6.34	-0.00887	±2.5	PASS	TN/VN
12	3.0	23165	714.5	16QAM	15@0	-15.82	-0.02214	±2.5	PASS	TN/VN
12	5.0	23035	701.5	QPSK	25@0	19.73	0.02812	±2.5	PASS	TN/VN
12	5.0	23035	701.5	16QAM	25@0	-43.62	-0.06218	±2.5	PASS	TN/VN
12	5.0	23095	707.5	QPSK	25@0	-14.03	-0.01984	±2.5	PASS	TN/VN
12	5.0	23095	707.5	16QAM	25@0	-33.02	-0.04667	±2.5	PASS	TN/VN
12	5.0	23155	713.5	QPSK	25@0	-10.26	-0.01438	±2.5	PASS	TN/VN
12	5.0	23155	713.5	16QAM	25@0	-18.81	-0.02636	±2.5	PASS	TN/VN
12	10.0	23060	704.0	QPSK	50@0	18.74	0.02662	±2.5	PASS	TN/VN
12	10.0	23060	704.0	16QAM	50@0	-24.68	-0.03505	±2.5	PASS	TN/VN
12	10.0	23095	707.5	QPSK	50@0	-25.26	-0.03571	±2.5	PASS	TN/VN
12	10.0	23095	707.5	16QAM	50@0	-46.98	-0.0664	±2.5	PASS	TN/VN
12	10.0	23130	711.0	QPSK	50@0	-10.6	-0.01491	±2.5	PASS	TN/VN
12	10.0	23130	711.0	16QAM	50@0	-24.82	-0.03491	±2.5	PASS	TN/VN

Frequency Stability-TL/VN

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
12	1.4	23017	699.7	QPSK	6@0	-23.13	-0.03306	±2.5	PASS	TL/VN
12	1.4	23017	699.7	16QAM	6@0	1.36	0.00194	±2.5	PASS	TL/VN
12	1.4	23095	707.5	QPSK	6@0	-14.22	-0.0201	±2.5	PASS	TL/VN
12	1.4	23095	707.5	16QAM	6@0	-32.76	-0.0463	±2.5	PASS	TL/VN
12	1.4	23173	715.3	QPSK	6@0	-4.18	-0.00584	±2.5	PASS	TL/VN
12	1.4	23173	715.3	16QAM	6@0	-16.28	-0.02276	±2.5	PASS	TL/VN
12	3.0	23025	700.5	QPSK	15@0	9.13	0.01303	±2.5	PASS	TL/VN
12	3.0	23025	700.5	16QAM	15@0	-10.63	-0.01517	±2.5	PASS	TL/VN
12	3.0	23095	707.5	QPSK	15@0	-9.04	-0.01278	±2.5	PASS	TL/VN
12	3.0	23095	707.5	16QAM	15@0	-25.09	-0.03546	±2.5	PASS	TL/VN
12	3.0	23165	714.5	QPSK	15@0	-9.93	-0.01389	±2.5	PASS	TL/VN
12	3.0	23165	714.5	16QAM	15@0	-21.4	-0.02995	±2.5	PASS	TL/VN
12	5.0	23035	701.5	QPSK	25@0	9.23	0.01315	±2.5	PASS	TL/VN
12	5.0	23035	701.5	16QAM	25@0	-14.58	-0.02078	±2.5	PASS	TL/VN
12	5.0	23095	707.5	QPSK	25@0	-9.13	-0.0129	±2.5	PASS	TL/VN
12	5.0	23095	707.5	16QAM	25@0	-25.73	-0.03637	±2.5	PASS	TL/VN
12	5.0	23155	713.5	QPSK	25@0	-7.54	-0.01057	±2.5	PASS	TL/VN
12	5.0	23155	713.5	16QAM	25@0	-15.05	-0.02109	±2.5	PASS	TL/VN
12	10.0	23060	704.0	QPSK	50@0	30.18	0.04287	±2.5	PASS	TL/VN
12	10.0	23060	704.0	16QAM	50@0	-15.42	-0.0219	±2.5	PASS	TL/VN
12	10.0	23095	707.5	QPSK	50@0	-14.0	-0.01979	±2.5	PASS	TL/VN
12	10.0	23095	707.5	16QAM	50@0	-39.21	-0.05542	±2.5	PASS	TL/VN
12	10.0	23130	711.0	QPSK	50@0	-7.21	-0.01014	±2.5	PASS	TL/VN
12	10.0	23130	711.0	16QAM	50@0	-21.37	-0.03006	±2.5	PASS	TL/VN

Frequency Stability-TH/VH

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
12	1.4	23017	699.7	QPSK	6@0	-12.07	-0.01726	±2.5	PASS	TH/VH
12	1.4	23017	699.7	16QAM	6@0	-30.97	-0.04426	±2.5	PASS	TH/VH
12	1.4	23095	707.5	QPSK	6@0	-1.87	-0.00265	±2.5	PASS	TH/VH
12	1.4	23095	707.5	16QAM	6@0	-14.71	-0.02079	±2.5	PASS	TH/VH
12	1.4	23173	715.3	QPSK	6@0	-0.37	-0.00052	±2.5	PASS	TH/VH
12	1.4	23173	715.3	16QAM	6@0	-13.35	-0.01866	±2.5	PASS	TH/VH
12	3.0	23025	700.5	QPSK	15@0	9.41	0.01344	±2.5	PASS	TH/VH
12	3.0	23025	700.5	16QAM	15@0	-6.14	-0.00876	±2.5	PASS	TH/VH
12	3.0	23095	707.5	QPSK	15@0	-9.93	-0.01403	±2.5	PASS	TH/VH
12	3.0	23095	707.5	16QAM	15@0	-24.2	-0.03421	±2.5	PASS	TH/VH
12	3.0	23165	714.5	QPSK	15@0	-4.56	-0.00639	±2.5	PASS	TH/VH
12	3.0	23165	714.5	16QAM	15@0	-13.76	-0.01926	±2.5	PASS	TH/VH
12	5.0	23035	701.5	QPSK	25@0	4.33	0.00618	±2.5	PASS	TH/VH
12	5.0	23035	701.5	16QAM	25@0	-14.55	-0.02074	±2.5	PASS	TH/VH
12	5.0	23095	707.5	QPSK	25@0	-5.79	-0.00819	±2.5	PASS	TH/VH
12	5.0	23095	707.5	16QAM	25@0	-18.04	-0.0255	±2.5	PASS	TH/VH
12	5.0	23155	713.5	QPSK	25@0	-4.85	-0.0068	±2.5	PASS	TH/VH
12	5.0	23155	713.5	16QAM	25@0	-11.96	-0.01676	±2.5	PASS	TH/VH
12	10.0	23060	704.0	QPSK	50@0	14.82	0.02105	±2.5	PASS	TH/VH
12	10.0	23060	704.0	16QAM	50@0	-22.22	-0.03156	±2.5	PASS	TH/VH
12	10.0	23095	707.5	QPSK	50@0	-17.9	-0.02529	±2.5	PASS	TH/VH
12	10.0	23095	707.5	16QAM	50@0	-37.11	-0.05245	±2.5	PASS	TH/VH
12	10.0	23130	711.0	QPSK	50@0	-9.06	-0.01274	±2.5	PASS	TH/VH
12	10.0	23130	711.0	16QAM	50@0	-22.0	-0.03094	±2.5	PASS	TH/VH

Frequency Stability-TH/VL

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
12	1.4	23017	699.7	QPSK	6@0	-16.85	-0.02408	±2.5	PASS	TH/VL
12	1.4	23017	699.7	16QAM	6@0	-44.79	-0.06401	±2.5	PASS	TH/VL
12	1.4	23095	707.5	QPSK	6@0	-11.3	-0.01597	±2.5	PASS	TH/VL
12	1.4	23095	707.5	16QAM	6@0	-30.76	-0.04347	±2.5	PASS	TH/VL
12	1.4	23173	715.3	QPSK	6@0	-11.07	-0.01548	±2.5	PASS	TH/VL
12	1.4	23173	715.3	16QAM	6@0	-27.98	-0.03912	±2.5	PASS	TH/VL
12	3.0	23025	700.5	QPSK	15@0	13.82	0.01973	±2.5	PASS	TH/VL
12	3.0	23025	700.5	16QAM	15@0	-27.28	-0.03894	±2.5	PASS	TH/VL
12	3.0	23095	707.5	QPSK	15@0	-14.38	-0.02032	±2.5	PASS	TH/VL
12	3.0	23095	707.5	16QAM	15@0	-37.24	-0.05263	±2.5	PASS	TH/VL
12	3.0	23165	714.5	QPSK	15@0	-13.48	-0.01886	±2.5	PASS	TH/VL
12	3.0	23165	714.5	16QAM	15@0	-28.24	-0.03952	±2.5	PASS	TH/VL
12	5.0	23035	701.5	QPSK	25@0	2.45	0.00349	±2.5	PASS	TH/VL
12	5.0	23035	701.5	16QAM	25@0	-17.35	-0.02474	±2.5	PASS	TH/VL
12	5.0	23095	707.5	QPSK	25@0	-8.17	-0.01155	±2.5	PASS	TH/VL
12	5.0	23095	707.5	16QAM	25@0	-24.52	-0.03466	±2.5	PASS	TH/VL
12	5.0	23155	713.5	QPSK	25@0	-10.9	-0.01528	±2.5	PASS	TH/VL
12	5.0	23155	713.5	16QAM	25@0	-19.38	-0.02717	±2.5	PASS	TH/VL
12	10.0	23060	704.0	QPSK	50@0	12.03	0.01709	±2.5	PASS	TH/VL
12	10.0	23060	704.0	16QAM	50@0	-28.14	-0.03997	±2.5	PASS	TH/VL
12	10.0	23095	707.5	QPSK	50@0	-15.35	-0.0217	±2.5	PASS	TH/VL
12	10.0	23095	707.5	16QAM	50@0	-39.28	-0.05552	±2.5	PASS	TH/VL
12	10.0	23130	711.0	QPSK	50@0	-9.86	-0.01386	±2.5	PASS	TH/VL
12	10.0	23130	711.0	16QAM	50@0	-22.16	-0.03117	±2.5	PASS	TH/VL

Frequency Stability-TH/VN

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
12	1.4	23017	699.7	QPSK	6@0	-43.46	-0.06211	±2.5	PASS	TH/VN
12	1.4	23017	699.7	16QAM	6@0	-45.83	-0.0655	±2.5	PASS	TH/VN
12	1.4	23095	707.5	QPSK	6@0	-26.95	-0.03809	±2.5	PASS	TH/VN
12	1.4	23095	707.5	16QAM	6@0	-11.39	-0.01609	±2.5	PASS	TH/VN
12	1.4	23173	715.3	QPSK	6@0	-23.4	-0.03272	±2.5	PASS	TH/VN
12	1.4	23173	715.3	16QAM	6@0	-3.68	-0.00514	±2.5	PASS	TH/VN
12	3.0	23025	700.5	QPSK	15@0	-33.8	-0.04826	±2.5	PASS	TH/VN
12	3.0	23025	700.5	16QAM	15@0	-19.08	-0.02724	±2.5	PASS	TH/VN
12	3.0	23095	707.5	QPSK	15@0	-14.38	-0.02032	±2.5	PASS	TH/VN
12	3.0	23095	707.5	16QAM	15@0	-35.55	-0.05024	±2.5	PASS	TH/VN
12	3.0	23165	714.5	QPSK	15@0	-9.58	-0.01341	±2.5	PASS	TH/VN
12	3.0	23165	714.5	16QAM	15@0	-37.19	-0.05206	±2.5	PASS	TH/VN
12	5.0	23035	701.5	QPSK	25@0	-28.07	-0.04001	±2.5	PASS	TH/VN
12	5.0	23035	701.5	16QAM	25@0	-6.34	-0.00903	±2.5	PASS	TH/VN
12	5.0	23095	707.5	QPSK	25@0	-14.59	-0.02062	±2.5	PASS	TH/VN
12	5.0	23095	707.5	16QAM	25@0	-29.47	-0.04165	±2.5	PASS	TH/VN
12	5.0	23155	713.5	QPSK	25@0	-10.77	-0.0151	±2.5	PASS	TH/VN
12	5.0	23155	713.5	16QAM	25@0	-24.76	-0.03471	±2.5	PASS	TH/VN
12	10.0	23060	704.0	QPSK	50@0	10.33	0.01467	±2.5	PASS	TH/VN
12	10.0	23060	704.0	16QAM	50@0	-19.84	-0.02818	±2.5	PASS	TH/VN
12	10.0	23095	707.5	QPSK	50@0	-15.11	-0.02135	±2.5	PASS	TH/VN
12	10.0	23095	707.5	16QAM	50@0	-34.89	-0.04931	±2.5	PASS	TH/VN
12	10.0	23130	711.0	QPSK	50@0	-5.87	-0.00825	±2.5	PASS	TH/VN
12	10.0	23130	711.0	16QAM	50@0	-19.37	-0.02724	±2.5	PASS	TH/VN

Frequency Stability-TL/VH

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
12	1.4	23017	699.7	QPSK	6@0	-26.89	-0.03844	±2.5	PASS	TLVH
12	1.4	23017	699.7	16QAM	6@0	0.6	0.00086	±2.5	PASS	TLVH
12	1.4	23095	707.5	QPSK	6@0	-12.79	-0.01808	±2.5	PASS	TLVH
12	1.4	23095	707.5	16QAM	6@0	-28.54	-0.04034	±2.5	PASS	TLVH
12	1.4	23173	715.3	QPSK	6@0	-7.72	-0.0108	±2.5	PASS	TLVH
12	1.4	23173	715.3	16QAM	6@0	-29.31	-0.04098	±2.5	PASS	TLVH
12	3.0	23025	700.5	QPSK	15@0	7.12	0.01017	±2.5	PASS	TLVH
12	3.0	23025	700.5	16QAM	15@0	-7.24	-0.01033	±2.5	PASS	TLVH
12	3.0	23095	707.5	QPSK	15@0	-31.09	-0.04394	±2.5	PASS	TLVH
12	3.0	23095	707.5	16QAM	15@0	-18.6	-0.02629	±2.5	PASS	TLVH
12	3.0	23165	714.5	QPSK	15@0	-19.56	-0.02737	±2.5	PASS	TLVH
12	3.0	23165	714.5	16QAM	15@0	-8.14	-0.01139	±2.5	PASS	TLVH
12	5.0	23035	701.5	QPSK	25@0	-17.09	-0.02437	±2.5	PASS	TLVH
12	5.0	23035	701.5	16QAM	25@0	-45.38	-0.06468	±2.5	PASS	TLVH
12	5.0	23095	707.5	QPSK	25@0	-10.01	-0.01415	±2.5	PASS	TLVH
12	5.0	23095	707.5	16QAM	25@0	-21.76	-0.03075	±2.5	PASS	TLVH
12	5.0	23155	713.5	QPSK	25@0	-5.55	-0.00778	±2.5	PASS	TLVH
12	5.0	23155	713.5	16QAM	25@0	-16.55	-0.0232	±2.5	PASS	TLVH
12	10.0	23060	704.0	QPSK	50@0	17.98	0.02554	±2.5	PASS	TLVH
12	10.0	23060	704.0	16QAM	50@0	-38.15	-0.05419	±2.5	PASS	TLVH
12	10.0	23095	707.5	QPSK	50@0	-25.86	-0.03656	±2.5	PASS	TLVH
12	10.0	23095	707.5	16QAM	50@0	-12.12	-0.01713	±2.5	PASS	TLVH
12	10.0	23130	711.0	QPSK	50@0	-16.97	-0.02386	±2.5	PASS	TLVH
12	10.0	23130	711.0	16QAM	50@0	-33.73	-0.04744	±2.5	PASS	TLVH

Frequency Stability-TL/VL

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
12	1.4	23017	699.7	QPSK	6@0	-20.31	-0.02903	±2.5	PASS	TL/VL
12	1.4	23017	699.7	16QAM	6@0	-39.57	-0.05655	±2.5	PASS	TL/VL
12	1.4	23095	707.5	QPSK	6@0	-6.25	-0.00884	±2.5	PASS	TL/VL
12	1.4	23095	707.5	16QAM	6@0	-17.11	-0.02418	±2.5	PASS	TL/VL
12	1.4	23173	715.3	QPSK	6@0	-10.16	-0.0142	±2.5	PASS	TL/VL
12	1.4	23173	715.3	16QAM	6@0	-26.36	-0.03686	±2.5	PASS	TL/VL
12	3.0	23025	700.5	QPSK	15@0	-7.32	-0.01046	±2.5	PASS	TL/VL
12	3.0	23025	700.5	16QAM	15@0	-25.58	-0.03651	±2.5	PASS	TL/VL
12	3.0	23095	707.5	QPSK	15@0	-8.25	-0.01167	±2.5	PASS	TL/VL
12	3.0	23095	707.5	16QAM	15@0	-17.58	-0.02485	±2.5	PASS	TL/VL
12	3.0	23165	714.5	QPSK	15@0	-2.13	-0.00298	±2.5	PASS	TL/VL
12	3.0	23165	714.5	16QAM	15@0	-18.15	-0.02541	±2.5	PASS	TL/VL
12	5.0	23035	701.5	QPSK	25@0	-12.2	-0.01739	±2.5	PASS	TL/VL
12	5.0	23035	701.5	16QAM	25@0	-29.97	-0.04272	±2.5	PASS	TL/VL
12	5.0	23095	707.5	QPSK	25@0	-1.29	-0.00182	±2.5	PASS	TL/VL
12	5.0	23095	707.5	16QAM	25@0	-8.5	-0.01201	±2.5	PASS	TL/VL
12	5.0	23155	713.5	QPSK	25@0	0.56	0.00078	±2.5	PASS	TL/VL
12	5.0	23155	713.5	16QAM	25@0	-8.63	-0.01209	±2.5	PASS	TL/VL
12	10.0	23060	704.0	QPSK	50@0	27.68	0.03932	±2.5	PASS	TL/VL
12	10.0	23060	704.0	16QAM	50@0	-16.37	-0.02325	±2.5	PASS	TL/VL
12	10.0	23095	707.5	QPSK	50@0	-19.41	-0.02744	±2.5	PASS	TL/VL
12	10.0	23095	707.5	16QAM	50@0	-44.56	-0.06298	±2.5	PASS	TL/VL
12	10.0	23130	711.0	QPSK	50@0	-4.91	-0.0069	±2.5	PASS	TL/VL
12	10.0	23130	711.0	16QAM	50@0	-21.67	-0.03048	±2.5	PASS	TL/VL

Frequency Stability-TN/VH

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
12	1.4	23017	699.7	QPSK	6@0	-18.75	-0.0268	±2.5	PASS	TN/VH
12	1.4	23017	699.7	16QAM	6@0	-43.89	-0.06272	±2.5	PASS	TN/VH
12	1.4	23095	707.5	QPSK	6@0	-8.58	-0.01213	±2.5	PASS	TN/VH
12	1.4	23095	707.5	16QAM	6@0	-21.56	-0.03047	±2.5	PASS	TN/VH
12	1.4	23173	715.3	QPSK	6@0	-11.97	-0.01674	±2.5	PASS	TN/VH
12	1.4	23173	715.3	16QAM	6@0	1.69	0.00236	±2.5	PASS	TN/VH
12	3.0	23025	700.5	QPSK	15@0	-5.44	-0.00776	±2.5	PASS	TN/VH
12	3.0	23025	700.5	16QAM	15@0	-49.0	-0.06994	±2.5	PASS	TN/VH
12	3.0	23095	707.5	QPSK	15@0	-20.71	-0.02928	±2.5	PASS	TN/VH
12	3.0	23095	707.5	16QAM	15@0	-0.27	-0.00038	±2.5	PASS	TN/VH
12	3.0	23165	714.5	QPSK	15@0	-13.26	-0.01856	±2.5	PASS	TN/VH
12	3.0	23165	714.5	16QAM	15@0	-43.44	-0.0608	±2.5	PASS	TN/VH
12	5.0	23035	701.5	QPSK	25@0	27.54	0.03925	±2.5	PASS	TN/VH
12	5.0	23035	701.5	16QAM	25@0	-18.77	-0.02675	±2.5	PASS	TN/VH
12	5.0	23095	707.5	QPSK	25@0	-17.18	-0.02428	±2.5	PASS	TN/VH
12	5.0	23095	707.5	16QAM	25@0	-45.43	-0.06422	±2.5	PASS	TN/VH
12	5.0	23155	713.5	QPSK	25@0	-11.54	-0.01618	±2.5	PASS	TN/VH
12	5.0	23155	713.5	16QAM	25@0	-31.26	-0.04381	±2.5	PASS	TN/VH
12	10.0	23060	704.0	QPSK	50@0	26.41	0.03751	±2.5	PASS	TN/VH
12	10.0	23060	704.0	16QAM	50@0	-26.66	-0.03788	±2.5	PASS	TN/VH
12	10.0	23095	707.5	QPSK	50@0	-27.09	-0.0383	±2.5	PASS	TN/VH
12	10.0	23095	707.5	16QAM	50@0	-4.13	-0.00584	±2.5	PASS	TN/VH
12	10.0	23130	711.0	QPSK	50@0	-15.79	-0.02221	±2.5	PASS	TN/VH
12	10.0	23130	711.0	16QAM	50@0	-34.9	-0.04909	±2.5	PASS	TN/VH

Frequency Stability-TN/VL

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
12	1.4	23017	699.7	QPSK	6@0	-18.58	-0.02656	±2.5	PASS	TN/VL
12	1.4	23017	699.7	16QAM	6@0	-44.05	-0.06295	±2.5	PASS	TN/VL
12	1.4	23095	707.5	QPSK	6@0	-7.4	-0.01045	±2.5	PASS	TN/VL
12	1.4	23095	707.5	16QAM	6@0	-23.5	-0.03322	±2.5	PASS	TN/VL
12	1.4	23173	715.3	QPSK	6@0	-12.59	-0.0176	±2.5	PASS	TN/VL
12	1.4	23173	715.3	16QAM	6@0	-32.14	-0.04494	±2.5	PASS	TN/VL
12	3.0	23025	700.5	QPSK	15@0	10.4	0.01485	±2.5	PASS	TN/VL
12	3.0	23025	700.5	16QAM	15@0	-6.52	-0.00931	±2.5	PASS	TN/VL
12	3.0	23095	707.5	QPSK	15@0	-8.61	-0.01217	±2.5	PASS	TN/VL
12	3.0	23095	707.5	16QAM	15@0	-23.5	-0.03322	±2.5	PASS	TN/VL
12	3.0	23165	714.5	QPSK	15@0	-6.88	-0.00963	±2.5	PASS	TN/VL
12	3.0	23165	714.5	16QAM	15@0	-24.7	-0.03458	±2.5	PASS	TN/VL
12	5.0	23035	701.5	QPSK	25@0	36.28	0.05171	±2.5	PASS	TN/VL
12	5.0	23035	701.5	16QAM	25@0	-8.1	-0.01154	±2.5	PASS	TN/VL
12	5.0	23095	707.5	QPSK	25@0	-17.65	-0.02495	±2.5	PASS	TN/VL
12	5.0	23095	707.5	16QAM	25@0	-47.29	-0.06684	±2.5	PASS	TN/VL
12	5.0	23155	713.5	QPSK	25@0	-13.18	-0.01847	±2.5	PASS	TN/VL
12	5.0	23155	713.5	16QAM	25@0	-32.86	-0.04605	±2.5	PASS	TN/VL
12	10.0	23060	704.0	QPSK	50@0	14.19	0.02016	±2.5	PASS	TN/VL
12	10.0	23060	704.0	16QAM	50@0	-12.42	-0.01764	±2.5	PASS	TN/VL
12	10.0	23095	707.5	QPSK	50@0	-14.68	-0.02074	±2.5	PASS	TN/VL
12	10.0	23095	707.5	16QAM	50@0	-31.47	-0.04448	±2.5	PASS	TN/VL
12	10.0	23130	711.0	QPSK	50@0	-9.06	-0.01274	±2.5	PASS	TN/VL
12	10.0	23130	711.0	16QAM	50@0	-18.48	-0.02599	±2.5	PASS	TN/VL

7.Modulation Characteristics

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Verdict
12	1.4	23017	699.7	QPSK	6@0	PASS
12	1.4	23017	699.7	16QAM	6@0	PASS
12	1.4	23095	707.5	QPSK	6@0	PASS
12	1.4	23095	707.5	16QAM	6@0	PASS
12	1.4	23173	715.3	QPSK	6@0	PASS
12	1.4	23173	715.3	16QAM	6@0	PASS
12	3.0	23025	700.5	QPSK	15@0	PASS
12	3.0	23025	700.5	16QAM	15@0	PASS
12	3.0	23095	707.5	QPSK	15@0	PASS
12	3.0	23095	707.5	16QAM	15@0	PASS
12	3.0	23165	714.5	QPSK	15@0	PASS
12	3.0	23165	714.5	16QAM	15@0	PASS
12	5.0	23035	701.5	QPSK	25@0	PASS
12	5.0	23035	701.5	16QAM	25@0	PASS
12	5.0	23095	707.5	QPSK	25@0	PASS
12	5.0	23095	707.5	16QAM	25@0	PASS
12	5.0	23155	713.5	QPSK	25@0	PASS
12	5.0	23155	713.5	16QAM	25@0	PASS
12	10.0	23060	704.0	QPSK	50@0	PASS
12	10.0	23060	704.0	16QAM	50@0	PASS
12	10.0	23095	707.5	QPSK	50@0	PASS
12	10.0	23095	707.5	16QAM	50@0	PASS
12	10.0	23130	711.0	QPSK	50@0	PASS
12	10.0	23130	711.0	16QAM	50@0	PASS

Test Graphs

