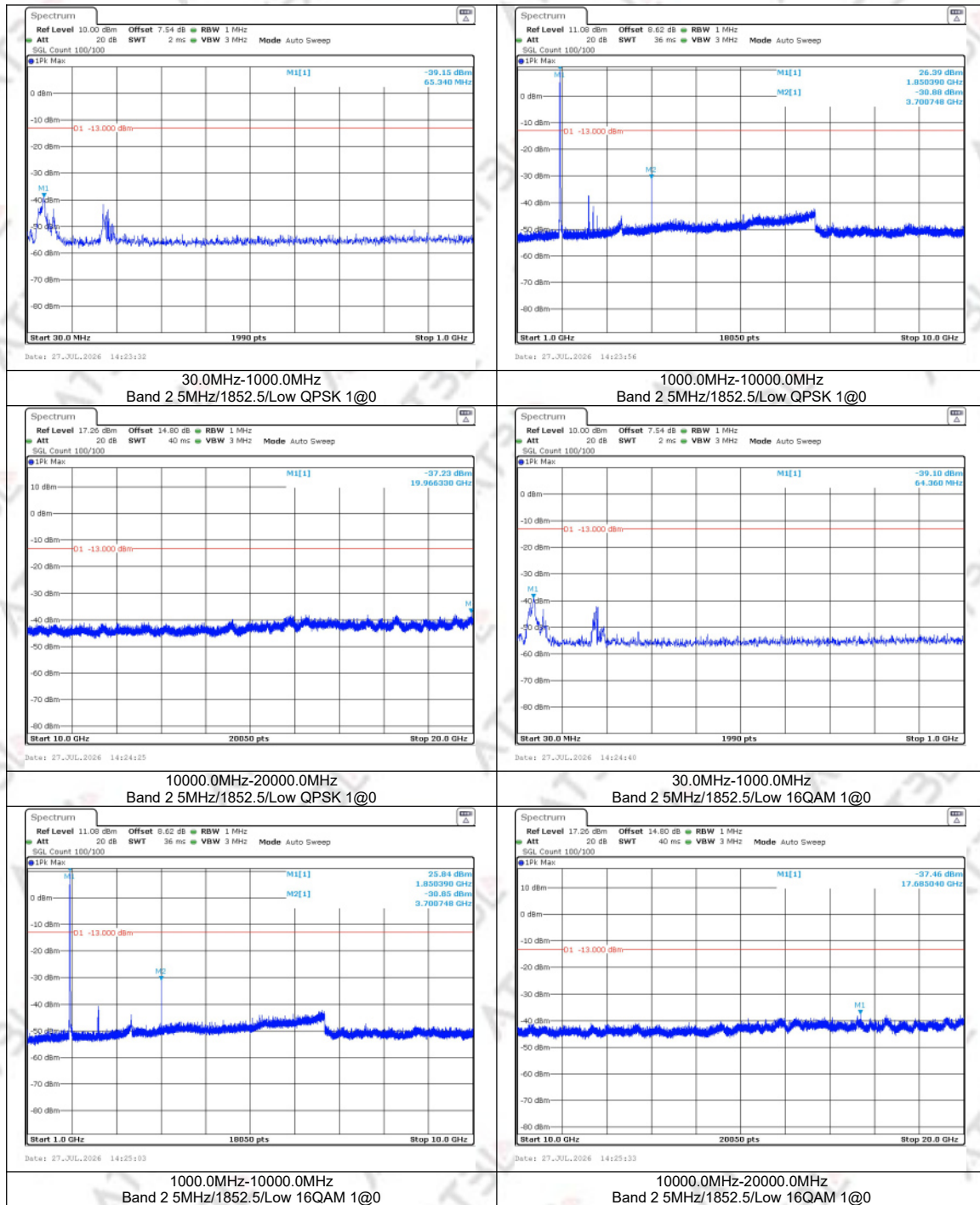
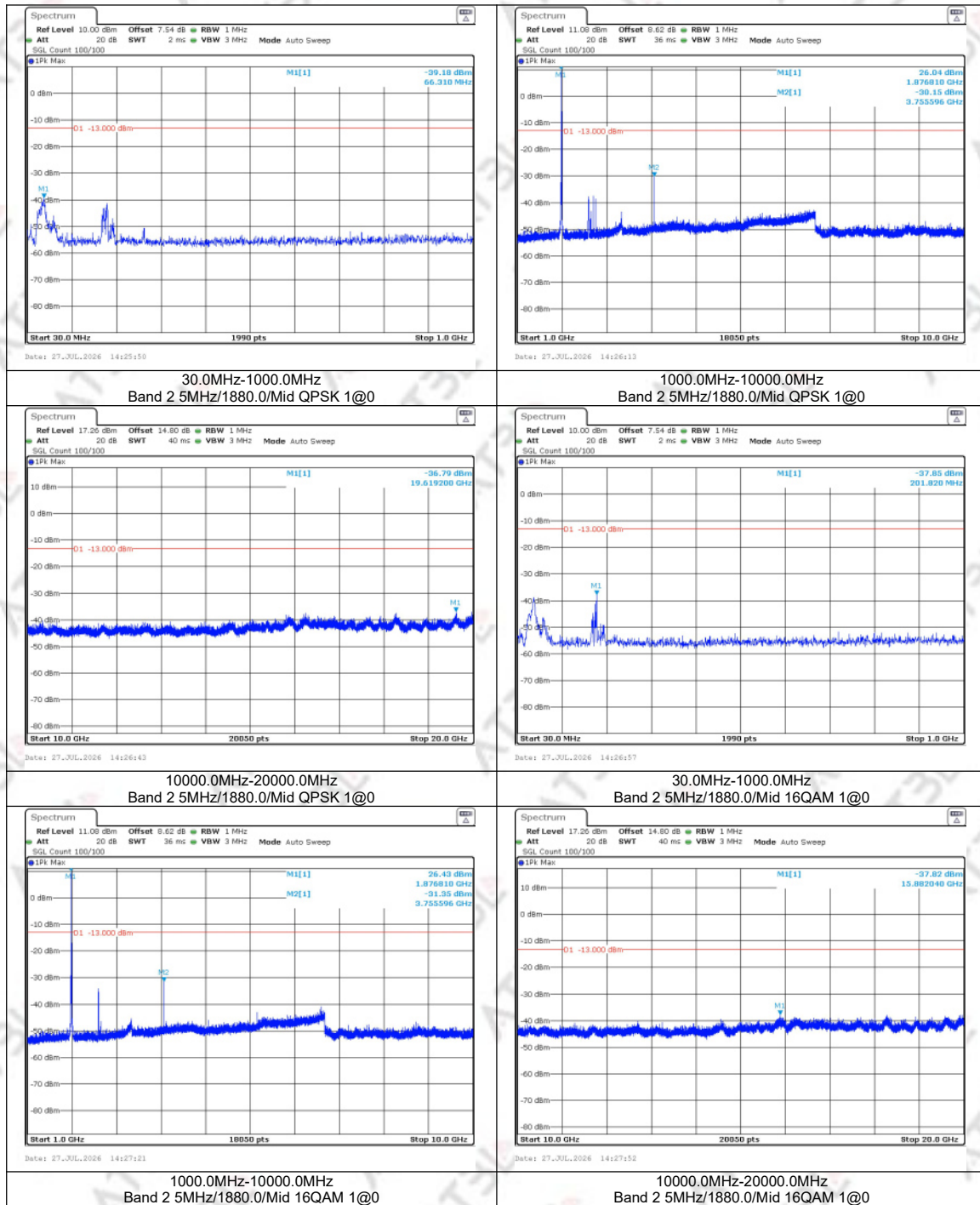
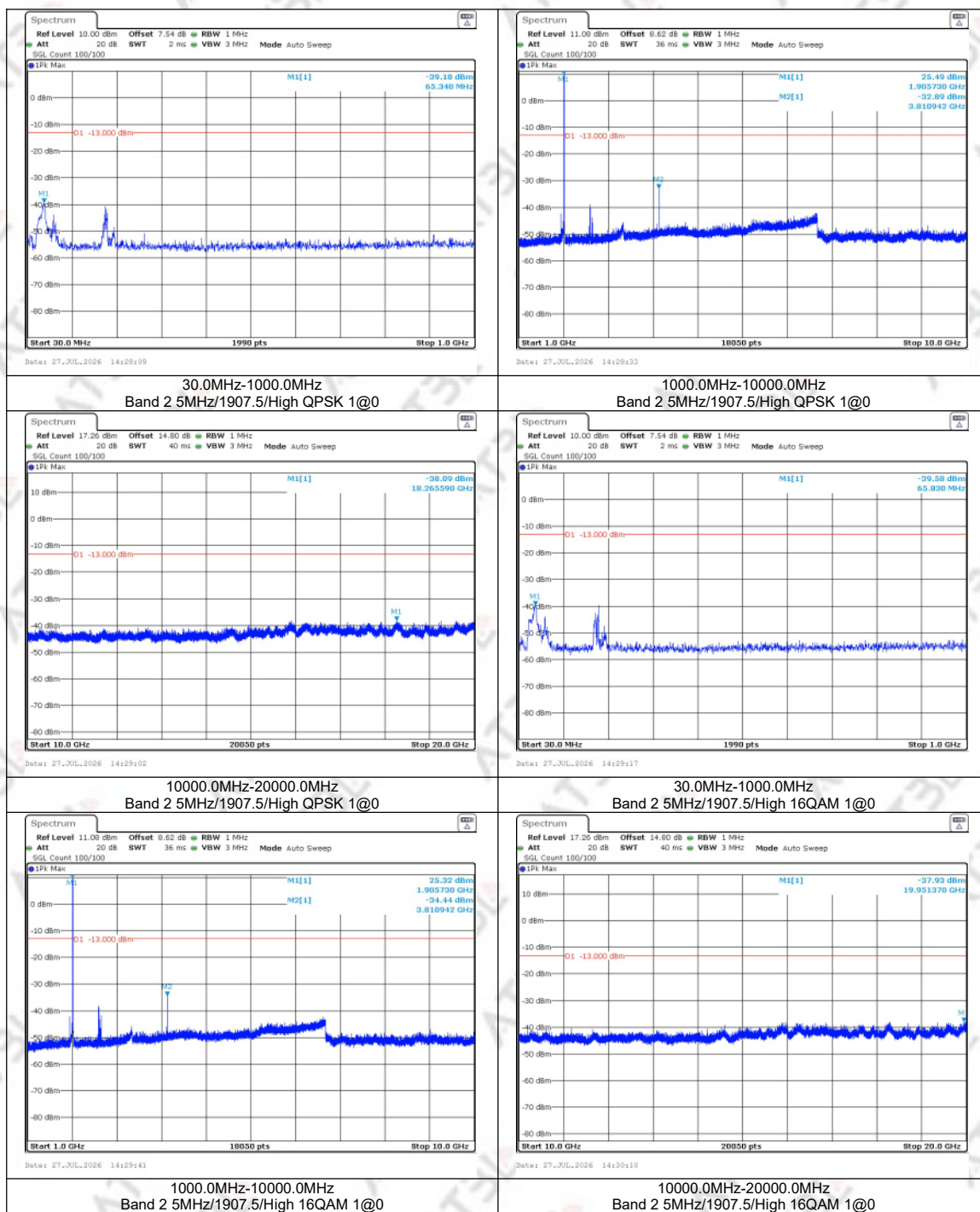
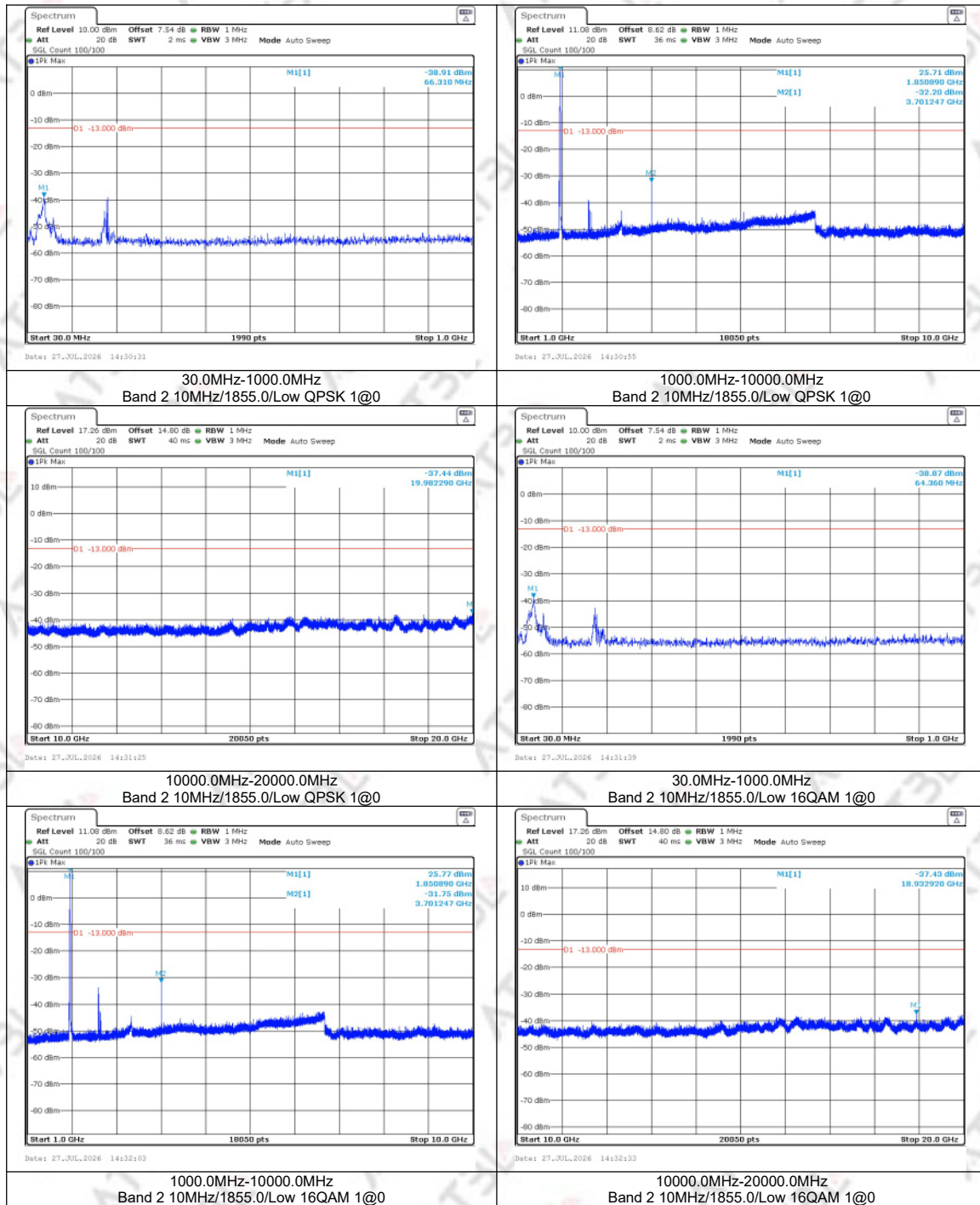
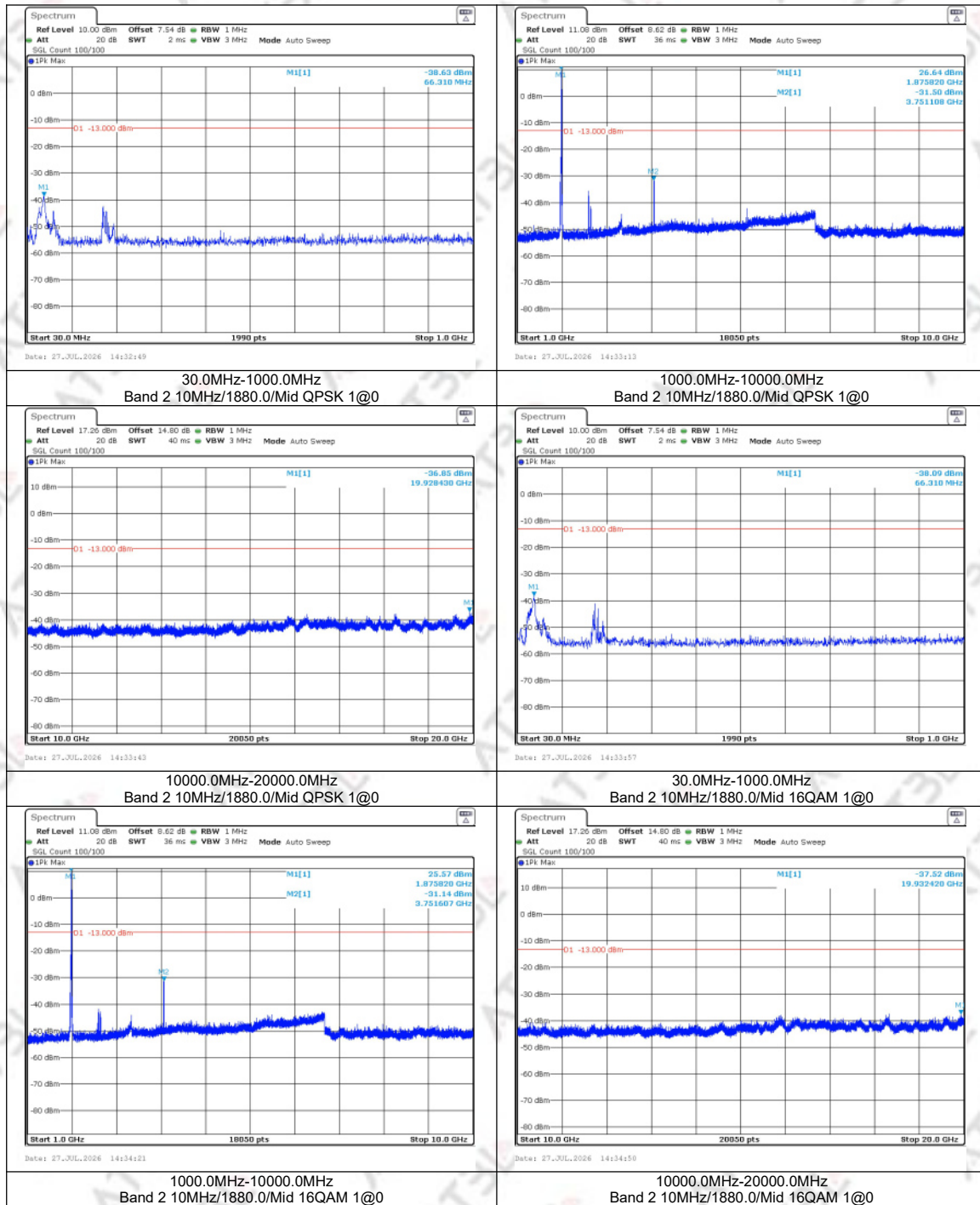


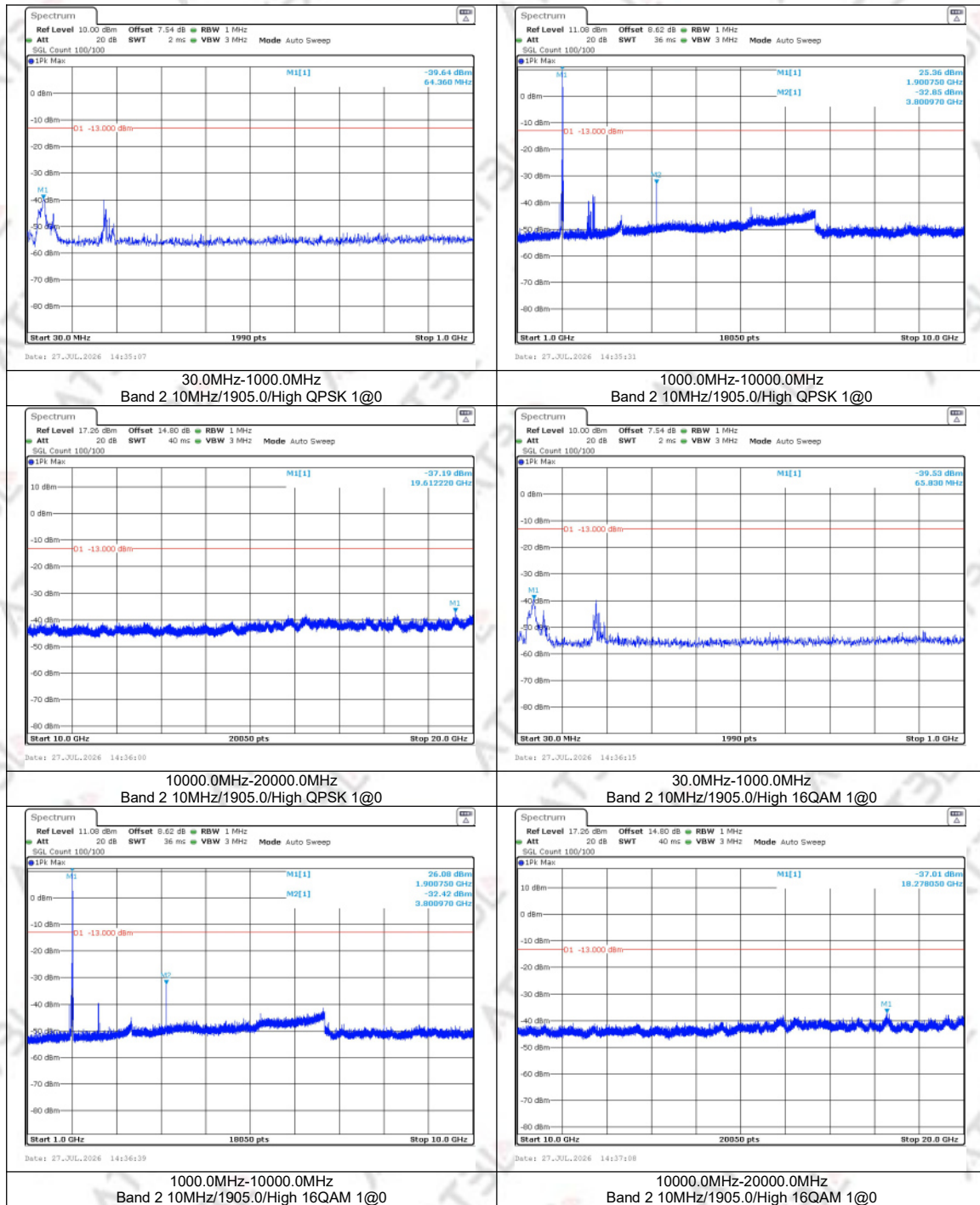


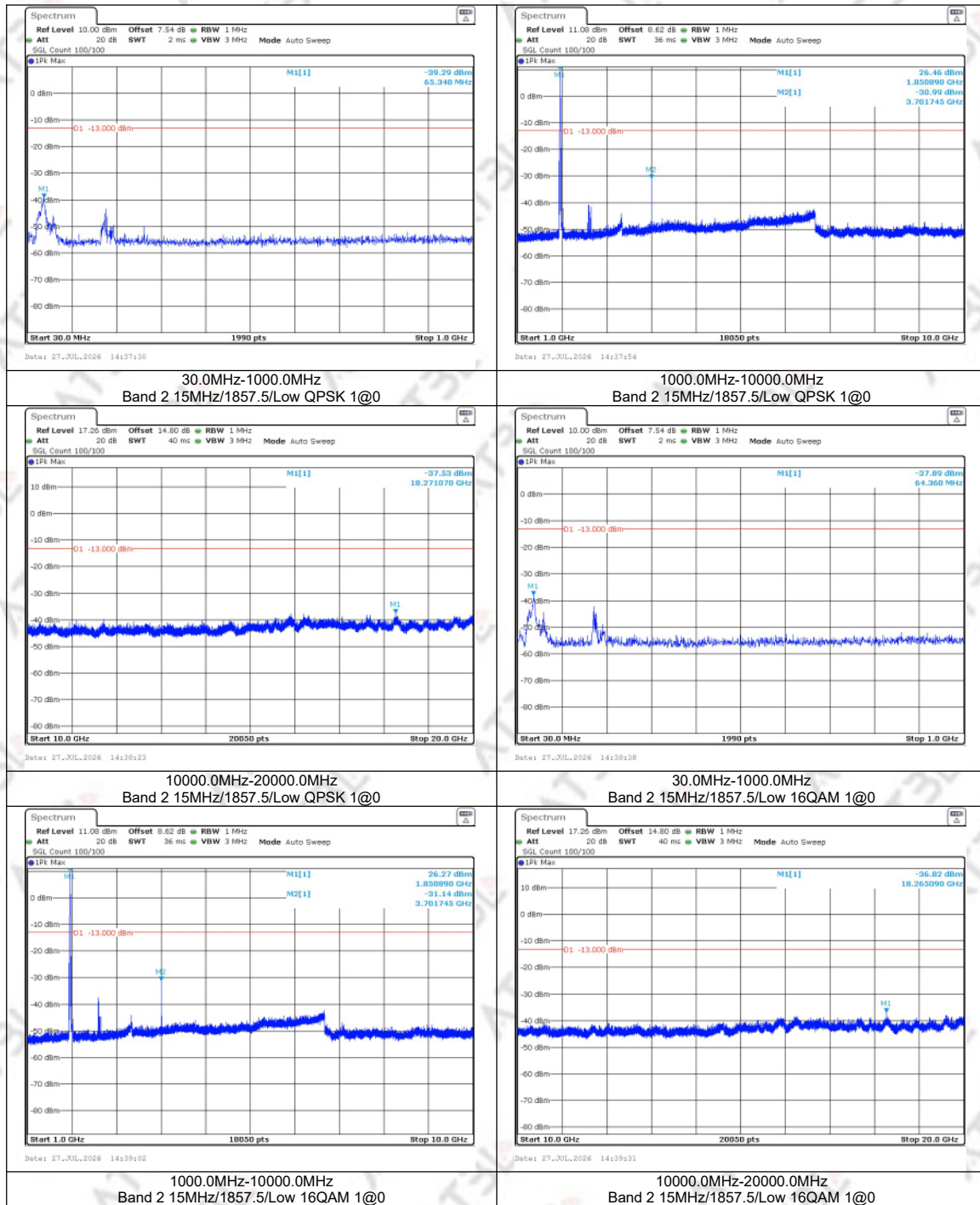


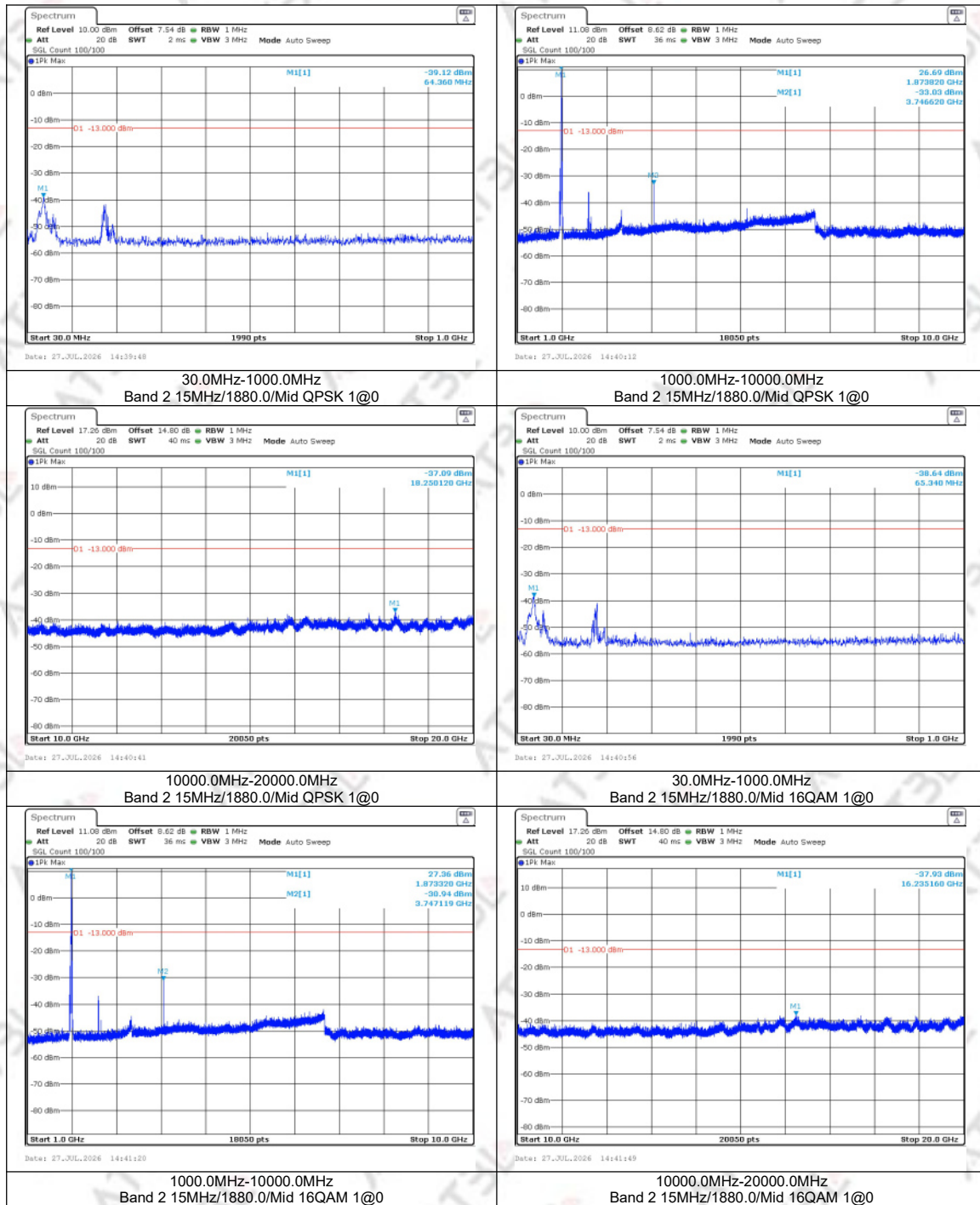


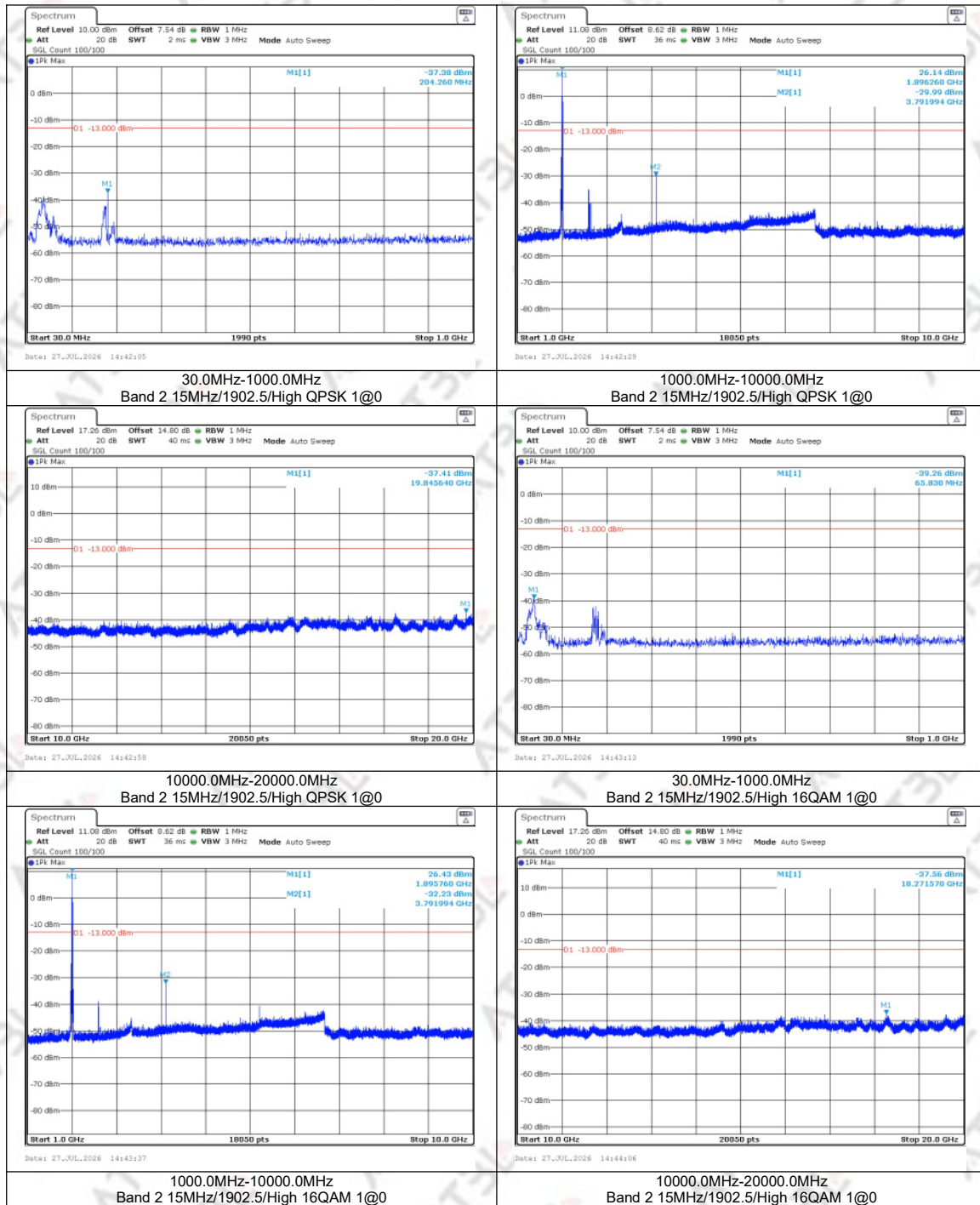


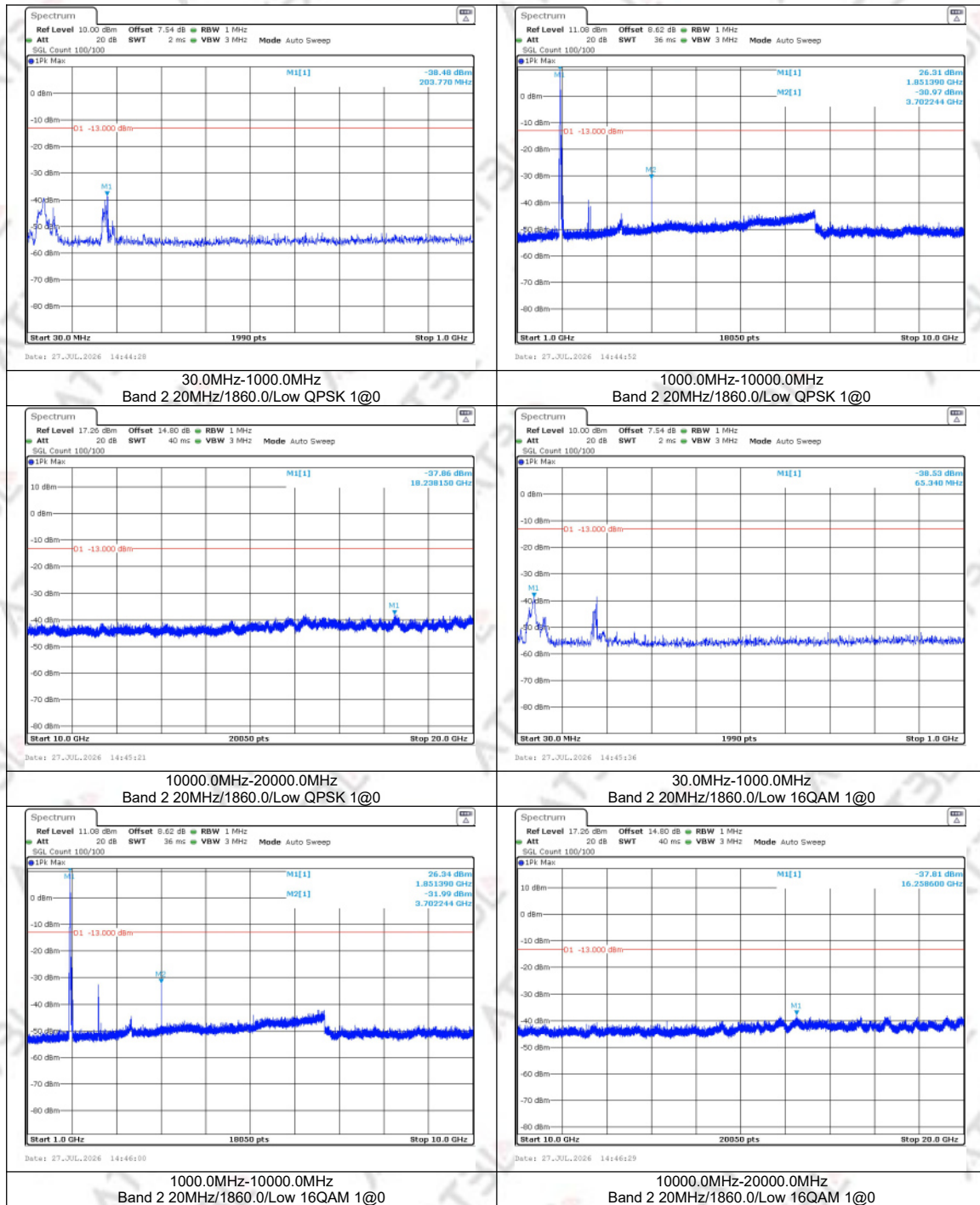


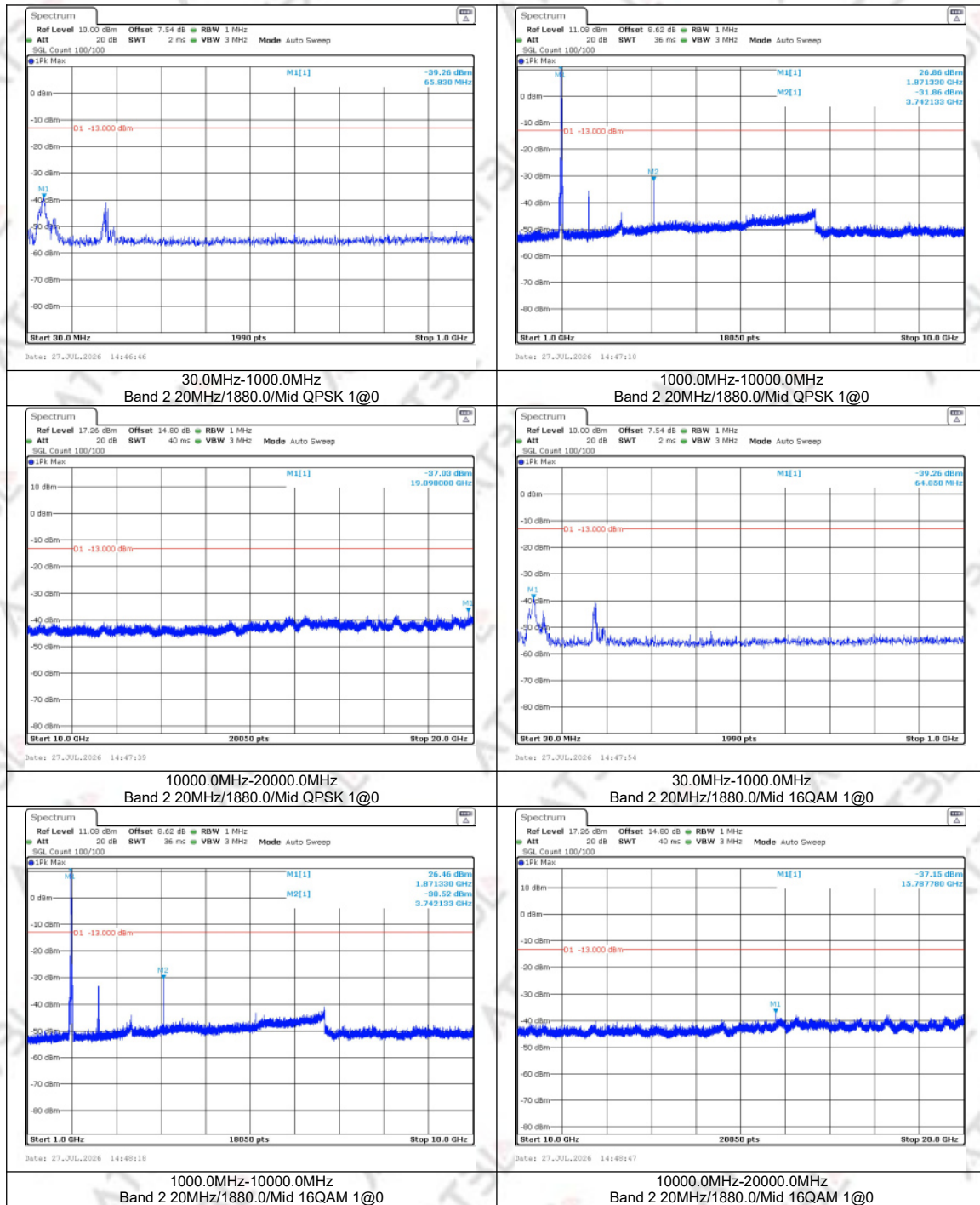


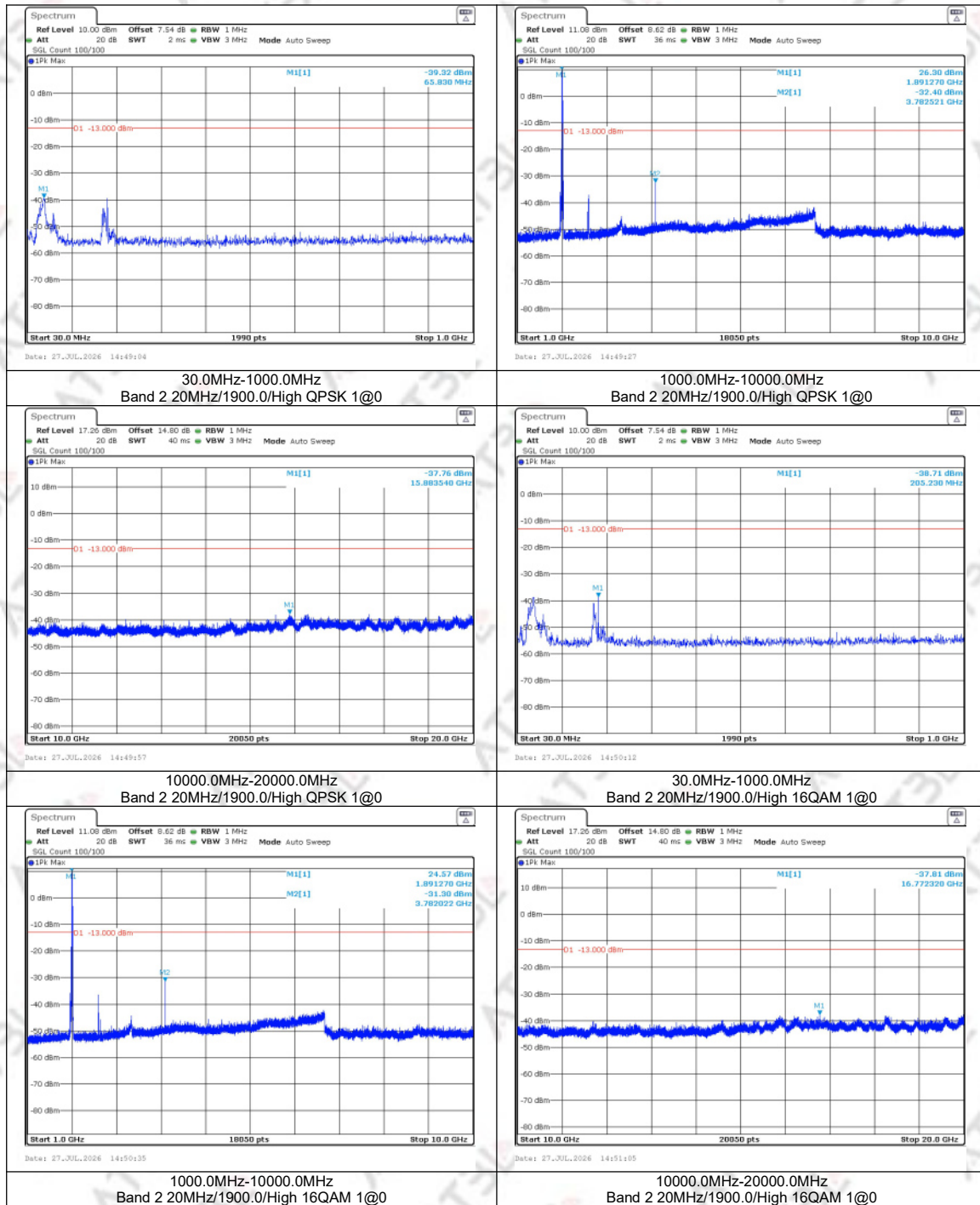












6.Frequency Stability-TN/VN

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	1.4	18607	1850.7	QPSK	6@0	-36.11	-0.01951	±2.5	PASS	TN/VN
2	1.4	18607	1850.7	16QAM	6@0	-36.15	-0.01953	±2.5	PASS	TN/VN
2	1.4	18900	1880.0	QPSK	6@0	-35.09	-0.01867	±2.5	PASS	TN/VN
2	1.4	18900	1880.0	16QAM	6@0	-8.1	-0.00431	±2.5	PASS	TN/VN
2	1.4	19193	1909.3	QPSK	6@0	-47.26	-0.02475	±2.5	PASS	TN/VN
2	1.4	19193	1909.3	16QAM	6@0	-9.91	-0.00519	±2.5	PASS	TN/VN
2	3.0	18615	1851.5	QPSK	15@0	-16.05	-0.00867	±2.5	PASS	TN/VN
2	3.0	18615	1851.5	16QAM	15@0	-11.03	-0.00596	±2.5	PASS	TN/VN
2	3.0	18900	1880.0	QPSK	15@0	-41.43	-0.02204	±2.5	PASS	TN/VN
2	3.0	18900	1880.0	16QAM	15@0	-48.98	-0.02605	±2.5	PASS	TN/VN
2	3.0	19185	1908.5	QPSK	15@0	-23.46	-0.01229	±2.5	PASS	TN/VN
2	3.0	19185	1908.5	16QAM	15@0	-58.74	-0.03078	±2.5	PASS	TN/VN
2	5.0	18625	1852.5	QPSK	25@0	16.58	0.00895	±2.5	PASS	TN/VN
2	5.0	18625	1852.5	16QAM	25@0	-37.89	-0.02046	±2.5	PASS	TN/VN
2	5.0	18900	1880.0	QPSK	25@0	-19.15	-0.01019	±2.5	PASS	TN/VN
2	5.0	18900	1880.0	16QAM	25@0	-2.83	-0.00151	±2.5	PASS	TN/VN
2	5.0	19175	1907.5	QPSK	25@0	-27.92	-0.01464	±2.5	PASS	TN/VN
2	5.0	19175	1907.5	16QAM	25@0	-34.95	-0.01832	±2.5	PASS	TN/VN
2	10.0	18650	1855.0	QPSK	50@0	-61.05	-0.03291	±2.5	PASS	TN/VN
2	10.0	18650	1855.0	16QAM	50@0	-12.97	-0.00699	±2.5	PASS	TN/VN
2	10.0	18900	1880.0	QPSK	50@0	-22.5	-0.01197	±2.5	PASS	TN/VN
2	10.0	18900	1880.0	16QAM	50@0	-17.85	-0.0095	±2.5	PASS	TN/VN
2	10.0	19150	1905.0	QPSK	50@0	-46.43	-0.02438	±2.5	PASS	TN/VN
2	10.0	19150	1905.0	16QAM	50@0	-38.98	-0.02046	±2.5	PASS	TN/VN
2	15.0	18675	1857.5	QPSK	75@0	0.37	0.00002	±2.5	PASS	TN/VN
2	15.0	18675	1857.5	16QAM	75@0	-21.77	-0.01172	±2.5	PASS	TN/VN
2	15.0	18900	1880.0	QPSK	75@0	-20.51	-0.01091	±2.5	PASS	TN/VN
2	15.0	18900	1880.0	16QAM	75@0	-13.05	-0.00694	±2.5	PASS	TN/VN
2	15.0	19125	1902.5	QPSK	75@0	-51.61	-0.02713	±2.5	PASS	TN/VN
2	15.0	19125	1902.5	16QAM	75@0	-17.58	-0.00924	±2.5	PASS	TN/VN
2	20.0	18700	1860.0	QPSK	100@0	6.71	0.00361	±2.5	PASS	TN/VN
2	20.0	18700	1860.0	16QAM	100@0	-27.64	-0.01486	±2.5	PASS	TN/VN
2	20.0	18900	1880.0	QPSK	100@0	-3.42	-0.00182	±2.5	PASS	TN/VN
2	20.0	18900	1880.0	16QAM	100@0	-28.85	-0.01535	±2.5	PASS	TN/VN
2	20.0	19100	1900.0	QPSK	100@0	-21.26	-0.01119	±2.5	PASS	TN/VN
2	20.0	19100	1900.0	16QAM	100@0	-33.49	-0.01763	±2.5	PASS	TN/VN

Frequency Stability-TL/VL

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	1.4	18607	1850.7	QPSK	6@0	-47.75	-0.0258	±2.5	PASS	TL/VN
2	1.4	18607	1850.7	16QAM	6@0	-26.58	-0.01436	±2.5	PASS	TL/VN
2	1.4	18900	1880.0	QPSK	6@0	2.65	0.00141	±2.5	PASS	TL/VN
2	1.4	18900	1880.0	16QAM	6@0	-53.0	-0.02819	±2.5	PASS	TL/VN
2	1.4	19193	1909.3	QPSK	6@0	-23.57	-0.01235	±2.5	PASS	TL/VN
2	1.4	19193	1909.3	16QAM	6@0	-52.61	-0.02756	±2.5	PASS	TL/VN
2	3.0	18615	1851.5	QPSK	15@0	27.38	0.01479	±2.5	PASS	TL/VN
2	3.0	18615	1851.5	16QAM	15@0	-37.65	-0.02034	±2.5	PASS	TL/VN
2	3.0	18900	1880.0	QPSK	15@0	-38.07	-0.02025	±2.5	PASS	TL/VN
2	3.0	18900	1880.0	16QAM	15@0	-12.15	-0.00646	±2.5	PASS	TL/VN
2	3.0	19185	1908.5	QPSK	15@0	-21.82	-0.01143	±2.5	PASS	TL/VN
2	3.0	19185	1908.5	16QAM	15@0	-29.85	-0.01564	±2.5	PASS	TL/VN
2	5.0	18625	1852.5	QPSK	25@0	34.29	0.01851	±2.5	PASS	TL/VN
2	5.0	18625	1852.5	16QAM	25@0	-14.75	-0.00796	±2.5	PASS	TL/VN
2	5.0	18900	1880.0	QPSK	25@0	-37.72	-0.02007	±2.5	PASS	TL/VN
2	5.0	18900	1880.0	16QAM	25@0	-1.87	-0.001	±2.5	PASS	TL/VN
2	5.0	19175	1907.5	QPSK	25@0	-4.91	-0.00257	±2.5	PASS	TL/VN
2	5.0	19175	1907.5	16QAM	25@0	-13.15	-0.00689	±2.5	PASS	TL/VN
2	10.0	18650	1855.0	QPSK	50@0	17.98	0.00969	±2.5	PASS	TL/VN
2	10.0	18650	1855.0	16QAM	50@0	-26.89	-0.0145	±2.5	PASS	TL/VN
2	10.0	18900	1880.0	QPSK	50@0	-16.97	-0.00902	±2.5	PASS	TL/VN
2	10.0	18900	1880.0	16QAM	50@0	-46.73	-0.02486	±2.5	PASS	TL/VN
2	10.0	19150	1905.0	QPSK	50@0	-6.24	-0.00327	±2.5	PASS	TL/VN
2	10.0	19150	1905.0	16QAM	50@0	-15.66	-0.00822	±2.5	PASS	TL/VN
2	15.0	18675	1857.5	QPSK	75@0	8.38	0.00451	±2.5	PASS	TL/VN
2	15.0	18675	1857.5	16QAM	75@0	-19.86	-0.01069	±2.5	PASS	TL/VN
2	15.0	18900	1880.0	QPSK	75@0	-6.31	-0.00336	±2.5	PASS	TL/VN
2	15.0	18900	1880.0	16QAM	75@0	1.04	0.00056	±2.5	PASS	TL/VN
2	15.0	19125	1902.5	QPSK	75@0	-30.57	-0.01607	±2.5	PASS	TL/VN
2	15.0	19125	1902.5	16QAM	75@0	-15.62	-0.00821	±2.5	PASS	TL/VN
2	20.0	18700	1860.0	QPSK	100@0	34.89	0.01876	±2.5	PASS	TL/VN
2	20.0	18700	1860.0	16QAM	100@0	-26.72	-0.01437	±2.5	PASS	TL/VN
2	20.0	18900	1880.0	QPSK	100@0	6.07	0.00323	±2.5	PASS	TL/VN
2	20.0	18900	1880.0	16QAM	100@0	-5.89	-0.00313	±2.5	PASS	TL/VN
2	20.0	19100	1900.0	QPSK	100@0	-23.3	-0.01226	±2.5	PASS	TL/VN
2	20.0	19100	1900.0	16QAM	100@0	-45.69	-0.02405	±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
2	1.4	18607	1850.7	QPSK	6@0	-25.53	-0.0138	±2.5	PASS	TH/VH
2	1.4	18607	1850.7	16QAM	6@0	-51.96	-0.02807	±2.5	PASS	TH/VH
2	1.4	18900	1880.0	QPSK	6@0	-25.92	-0.01379	±2.5	PASS	TH/VH
2	1.4	18900	1880.0	16QAM	6@0	-17.25	-0.00918	±2.5	PASS	TH/VH
2	1.4	19193	1909.3	QPSK	6@0	-5.36	-0.00281	±2.5	PASS	TH/VH
2	1.4	19193	1909.3	16QAM	6@0	-16.98	-0.00889	±2.5	PASS	TH/VH
2	3.0	18615	1851.5	QPSK	15@0	27.62	0.01492	±2.5	PASS	TH/VH
2	3.0	18615	1851.5	16QAM	15@0	-16.29	-0.0088	±2.5	PASS	TH/VH
2	3.0	18900	1880.0	QPSK	15@0	-26.51	-0.0141	±2.5	PASS	TH/VH
2	3.0	18900	1880.0	16QAM	15@0	-14.72	-0.00783	±2.5	PASS	TH/VH
2	3.0	19185	1908.5	QPSK	15@0	2.73	0.00143	±2.5	PASS	TH/VH
2	3.0	19185	1908.5	16QAM	15@0	-2.0	-0.00105	±2.5	PASS	TH/VH
2	5.0	18625	1852.5	QPSK	25@0	25.13	0.01357	±2.5	PASS	TH/VH
2	5.0	18625	1852.5	16QAM	25@0	-26.68	-0.0144	±2.5	PASS	TH/VH
2	5.0	18900	1880.0	QPSK	25@0	-54.03	-0.02874	±2.5	PASS	TH/VH
2	5.0	18900	1880.0	16QAM	25@0	-45.46	-0.02418	±2.5	PASS	TH/VH
2	5.0	19175	1907.5	QPSK	25@0	-17.37	-0.0091	±2.5	PASS	TH/VH
2	5.0	19175	1907.5	16QAM	25@0	-3.98	-0.00208	±2.5	PASS	TH/VH
2	10.0	18650	1855.0	QPSK	50@0	6.67	0.00359	±2.5	PASS	TH/VH
2	10.0	18650	1855.0	16QAM	50@0	-40.38	-0.02177	±2.5	PASS	TH/VH
2	10.0	18900	1880.0	QPSK	50@0	-0.83	-0.00044	±2.5	PASS	TH/VH
2	10.0	18900	1880.0	16QAM	50@0	-21.17	-0.01126	±2.5	PASS	TH/VH
2	10.0	19150	1905.0	QPSK	50@0	-21.84	-0.01147	±2.5	PASS	TH/VH
2	10.0	19150	1905.0	16QAM	50@0	3.83	0.00201	±2.5	PASS	TH/VH
2	15.0	18675	1857.5	QPSK	75@0	10.16	0.00547	±2.5	PASS	TH/VH
2	15.0	18675	1857.5	16QAM	75@0	-42.37	-0.02281	±2.5	PASS	TH/VH
2	15.0	18900	1880.0	QPSK	75@0	-39.3	-0.0209	±2.5	PASS	TH/VH
2	15.0	18900	1880.0	16QAM	75@0	-15.39	-0.00819	±2.5	PASS	TH/VH
2	15.0	19125	1902.5	QPSK	75@0	-4.98	-0.00262	±2.5	PASS	TH/VH
2	15.0	19125	1902.5	16QAM	75@0	-28.78	-0.01513	±2.5	PASS	TH/VH
2	20.0	18700	1860.0	QPSK	100@0	12.93	0.00695	±2.5	PASS	TH/VH
2	20.0	18700	1860.0	16QAM	100@0	-20.97	-0.01127	±2.5	PASS	TH/VH
2	20.0	18900	1880.0	QPSK	100@0	-53.19	-0.02829	±2.5	PASS	TH/VH
2	20.0	18900	1880.0	16QAM	100@0	-5.55	-0.00295	±2.5	PASS	TH/VH
2	20.0	19100	1900.0	QPSK	100@0	-21.07	-0.01109	±2.5	PASS	TH/VH
2	20.0	19100	1900.0	16QAM	100@0	-48.47	-0.02551	±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
2	1.4	18607	1850.7	QPSK	6@0	3.69	0.00199	±2.5	PASS	TH/VL
2	1.4	18607	1850.7	16QAM	6@0	-34.46	-0.01862	±2.5	PASS	TH/VL
2	1.4	18900	1880.0	QPSK	6@0	-43.17	-0.02296	±2.5	PASS	TH/VL
2	1.4	18900	1880.0	16QAM	6@0	-43.63	-0.02321	±2.5	PASS	TH/VL
2	1.4	19193	1909.3	QPSK	6@0	-18.45	-0.00967	±2.5	PASS	TH/VL
2	1.4	19193	1909.3	16QAM	6@0	-39.37	-0.02062	±2.5	PASS	TH/VL
2	3.0	18615	1851.5	QPSK	15@0	17.21	0.00929	±2.5	PASS	TH/VL
2	3.0	18615	1851.5	16QAM	15@0	-39.08	-0.02111	±2.5	PASS	TH/VL
2	3.0	18900	1880.0	QPSK	15@0	-47.99	-0.02553	±2.5	PASS	TH/VL
2	3.0	18900	1880.0	16QAM	15@0	-7.41	-0.00394	±2.5	PASS	TH/VL
2	3.0	19185	1908.5	QPSK	15@0	-41.48	-0.02174	±2.5	PASS	TH/VL
2	3.0	19185	1908.5	16QAM	15@0	0.89	0.00046	±2.5	PASS	TH/VL
2	5.0	18625	1852.5	QPSK	25@0	4.05	0.00219	±2.5	PASS	TH/VL
2	5.0	18625	1852.5	16QAM	25@0	-58.89	-0.03179	±2.5	PASS	TH/VL
2	5.0	18900	1880.0	QPSK	25@0	-35.91	-0.0191	±2.5	PASS	TH/VL
2	5.0	18900	1880.0	16QAM	25@0	-8.64	-0.0046	±2.5	PASS	TH/VL
2	5.0	19175	1907.5	QPSK	25@0	-10.21	-0.00535	±2.5	PASS	TH/VL
2	5.0	19175	1907.5	16QAM	25@0	-26.12	-0.01369	±2.5	PASS	TH/VL
2	10.0	18650	1855.0	QPSK	50@0	-4.29	-0.00231	±2.5	PASS	TH/VL
2	10.0	18650	1855.0	16QAM	50@0	-23.13	-0.01247	±2.5	PASS	TH/VL
2	10.0	18900	1880.0	QPSK	50@0	-47.25	-0.02513	±2.5	PASS	TH/VL
2	10.0	18900	1880.0	16QAM	50@0	-28.57	-0.0152	±2.5	PASS	TH/VL
2	10.0	19150	1905.0	QPSK	50@0	-9.74	-0.00511	±2.5	PASS	TH/VL
2	10.0	19150	1905.0	16QAM	50@0	-30.93	-0.01623	±2.5	PASS	TH/VL
2	15.0	18675	1857.5	QPSK	75@0	3.52	0.00189	±2.5	PASS	TH/VL
2	15.0	18675	1857.5	16QAM	75@0	-37.51	-0.02019	±2.5	PASS	TH/VL
2	15.0	18900	1880.0	QPSK	75@0	-45.08	-0.02398	±2.5	PASS	TH/VL
2	15.0	18900	1880.0	16QAM	75@0	-37.62	-0.02001	±2.5	PASS	TH/VL
2	15.0	19125	1902.5	QPSK	75@0	-25.63	-0.01347	±2.5	PASS	TH/VL
2	15.0	19125	1902.5	16QAM	75@0	-53.76	-0.02826	±2.5	PASS	TH/VL
2	20.0	18700	1860.0	QPSK	100@0	16.49	0.00887	±2.5	PASS	TH/VL
2	20.0	18700	1860.0	16QAM	100@0	-42.64	-0.02293	±2.5	PASS	TH/VL
2	20.0	18900	1880.0	QPSK	100@0	-25.42	-0.01352	±2.5	PASS	TH/VL
2	20.0	18900	1880.0	16QAM	100@0	-0.23	-0.00012	±2.5	PASS	TH/VL
2	20.0	19100	1900.0	QPSK	100@0	-12.29	-0.00647	±2.5	PASS	TH/VL
2	20.0	19100	1900.0	16QAM	100@0	-29.98	-0.01578	±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
2	1.4	18607	1850.7	QPSK	6@0	-49.5	-0.02674	±2.5	PASS	TH/VN
2	1.4	18607	1850.7	16QAM	6@0	-45.48	-0.02457	±2.5	PASS	TH/VN
2	1.4	18900	1880.0	QPSK	6@0	-44.45	-0.02364	±2.5	PASS	TH/VN
2	1.4	18900	1880.0	16QAM	6@0	-40.88	-0.02175	±2.5	PASS	TH/VN
2	1.4	19193	1909.3	QPSK	6@0	-15.68	-0.00821	±2.5	PASS	TH/VN
2	1.4	19193	1909.3	16QAM	6@0	-40.83	-0.02138	±2.5	PASS	TH/VN
2	3.0	18615	1851.5	QPSK	15@0	-20.08	-0.01085	±2.5	PASS	TH/VN
2	3.0	18615	1851.5	16QAM	15@0	-1.75	-0.00094	±2.5	PASS	TH/VN
2	3.0	18900	1880.0	QPSK	15@0	-50.93	-0.02709	±2.5	PASS	TH/VN
2	3.0	18900	1880.0	16QAM	15@0	-26.87	-0.01429	±2.5	PASS	TH/VN
2	3.0	19185	1908.5	QPSK	15@0	-40.84	-0.0214	±2.5	PASS	TH/VN
2	3.0	19185	1908.5	16QAM	15@0	-57.84	-0.0303	±2.5	PASS	TH/VN
2	5.0	18625	1852.5	QPSK	25@0	23.56	0.01272	±2.5	PASS	TH/VN
2	5.0	18625	1852.5	16QAM	25@0	-44.39	-0.02396	±2.5	PASS	TH/VN
2	5.0	18900	1880.0	QPSK	25@0	-31.77	-0.0169	±2.5	PASS	TH/VN
2	5.0	18900	1880.0	16QAM	25@0	-56.28	-0.02993	±2.5	PASS	TH/VN
2	5.0	19175	1907.5	QPSK	25@0	-53.94	-0.02828	±2.5	PASS	TH/VN
2	5.0	19175	1907.5	16QAM	25@0	-12.77	-0.0067	±2.5	PASS	TH/VN
2	10.0	18650	1855.0	QPSK	50@0	42.94	0.02315	±2.5	PASS	TH/VN
2	10.0	18650	1855.0	16QAM	50@0	-53.22	-0.02869	±2.5	PASS	TH/VN
2	10.0	18900	1880.0	QPSK	50@0	-41.73	-0.0222	±2.5	PASS	TH/VN
2	10.0	18900	1880.0	16QAM	50@0	7.14	0.0038	±2.5	PASS	TH/VN
2	10.0	19150	1905.0	QPSK	50@0	0.27	0.00014	±2.5	PASS	TH/VN
2	10.0	19150	1905.0	16QAM	50@0	-31.26	-0.01641	±2.5	PASS	TH/VN
2	15.0	18675	1857.5	QPSK	75@0	15.31	0.00824	±2.5	PASS	TH/VN
2	15.0	18675	1857.5	16QAM	75@0	-12.19	-0.00656	±2.5	PASS	TH/VN
2	15.0	18900	1880.0	QPSK	75@0	-12.02	-0.00639	±2.5	PASS	TH/VN
2	15.0	18900	1880.0	16QAM	75@0	6.85	0.00364	±2.5	PASS	TH/VN
2	15.0	19125	1902.5	QPSK	75@0	-45.59	-0.02396	±2.5	PASS	TH/VN
2	15.0	19125	1902.5	16QAM	75@0	-47.38	-0.0249	±2.5	PASS	TH/VN
2	20.0	18700	1860.0	QPSK	100@0	51.46	0.02766	±2.5	PASS	TH/VN
2	20.0	18700	1860.0	16QAM	100@0	-18.4	-0.00989	±2.5	PASS	TH/VN
2	20.0	18900	1880.0	QPSK	100@0	-37.44	-0.01991	±2.5	PASS	TH/VN
2	20.0	18900	1880.0	16QAM	100@0	-39.42	-0.02097	±2.5	PASS	TH/VN
2	20.0	19100	1900.0	QPSK	100@0	-50.8	-0.02674	±2.5	PASS	TH/VN
2	20.0	19100	1900.0	16QAM	100@0	-11.22	-0.0059	±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
2	1.4	18607	1850.7	QPSK	6@0	-50.77	-0.02743	±2.5	PASS	TLVH
2	1.4	18607	1850.7	16QAM	6@0	-9.16	-0.00495	±2.5	PASS	TLVH
2	1.4	18900	1880.0	QPSK	6@0	-6.87	-0.00365	±2.5	PASS	TLVH
2	1.4	18900	1880.0	16QAM	6@0	-33.07	-0.01759	±2.5	PASS	TLVH
2	1.4	19193	1909.3	QPSK	6@0	-21.23	-0.01112	±2.5	PASS	TLVH
2	1.4	19193	1909.3	16QAM	6@0	-23.7	-0.01241	±2.5	PASS	TLVH
2	3.0	18615	1851.5	QPSK	15@0	-41.74	-0.02255	±2.5	PASS	TLVH
2	3.0	18615	1851.5	16QAM	15@0	-17.4	-0.0094	±2.5	PASS	TLVH
2	3.0	18900	1880.0	QPSK	15@0	-32.77	-0.01743	±2.5	PASS	TLVH
2	3.0	18900	1880.0	16QAM	15@0	-2.89	-0.00154	±2.5	PASS	TLVH
2	3.0	19185	1908.5	QPSK	15@0	-45.89	-0.02405	±2.5	PASS	TLVH
2	3.0	19185	1908.5	16QAM	15@0	-18.53	-0.00971	±2.5	PASS	TLVH
2	5.0	18625	1852.5	QPSK	25@0	-34.63	-0.0187	±2.5	PASS	TLVH
2	5.0	18625	1852.5	16QAM	25@0	-34.3	-0.01852	±2.5	PASS	TLVH
2	5.0	18900	1880.0	QPSK	25@0	-39.44	-0.02098	±2.5	PASS	TLVH
2	5.0	18900	1880.0	16QAM	25@0	-51.08	-0.02717	±2.5	PASS	TLVH
2	5.0	19175	1907.5	QPSK	25@0	-42.47	-0.02227	±2.5	PASS	TLVH
2	5.0	19175	1907.5	16QAM	25@0	-13.53	-0.00709	±2.5	PASS	TLVH
2	10.0	18650	1855.0	QPSK	50@0	27.42	0.01478	±2.5	PASS	TLVH
2	10.0	18650	1855.0	16QAM	50@0	-45.29	-0.02442	±2.5	PASS	TLVH
2	10.0	18900	1880.0	QPSK	50@0	-3.86	-0.00205	±2.5	PASS	TLVH
2	10.0	18900	1880.0	16QAM	50@0	-22.97	-0.01222	±2.5	PASS	TLVH
2	10.0	19150	1905.0	QPSK	50@0	-24.4	-0.01281	±2.5	PASS	TLVH
2	10.0	19150	1905.0	16QAM	50@0	-26.36	-0.01384	±2.5	PASS	TLVH
2	15.0	18675	1857.5	QPSK	75@0	10.84	0.00584	±2.5	PASS	TLVH
2	15.0	18675	1857.5	16QAM	75@0	-49.27	-0.02652	±2.5	PASS	TLVH
2	15.0	18900	1880.0	QPSK	75@0	-2.43	-0.00129	±2.5	PASS	TLVH
2	15.0	18900	1880.0	16QAM	75@0	-21.19	-0.01127	±2.5	PASS	TLVH
2	15.0	19125	1902.5	QPSK	75@0	-32.72	-0.0172	±2.5	PASS	TLVH
2	15.0	19125	1902.5	16QAM	75@0	-42.53	-0.02235	±2.5	PASS	TLVH
2	20.0	18700	1860.0	QPSK	100@0	15.06	0.0081	±2.5	PASS	TLVH
2	20.0	18700	1860.0	16QAM	100@0	-22.72	-0.01221	±2.5	PASS	TLVH
2	20.0	18900	1880.0	QPSK	100@0	-33.93	-0.01805	±2.5	PASS	TLVH
2	20.0	18900	1880.0	16QAM	100@0	-31.23	-0.01661	±2.5	PASS	TLVH
2	20.0	19100	1900.0	QPSK	100@0	7.32	0.00385	±2.5	PASS	TLVH
2	20.0	19100	1900.0	16QAM	100@0	-48.17	-0.02535	±2.5	PASS	TLVH

Frequency Stability-YL/VL

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	1.4	18607	1850.7	QPSK	6@0	-47.92	-0.02589	±2.5	PASS	TL/VL
2	1.4	18607	1850.7	16QAM	6@0	-15.26	-0.00825	±2.5	PASS	TL/VL
2	1.4	18900	1880.0	QPSK	6@0	-46.15	-0.02455	±2.5	PASS	TL/VL
2	1.4	18900	1880.0	16QAM	6@0	-20.34	-0.01082	±2.5	PASS	TL/VL
2	1.4	19193	1909.3	QPSK	6@0	-8.33	-0.00436	±2.5	PASS	TL/VL
2	1.4	19193	1909.3	16QAM	6@0	-30.34	-0.01589	±2.5	PASS	TL/VL
2	3.0	18615	1851.5	QPSK	15@0	-45.16	-0.02439	±2.5	PASS	TL/VL
2	3.0	18615	1851.5	16QAM	15@0	-16.06	-0.00868	±2.5	PASS	TL/VL
2	3.0	18900	1880.0	QPSK	15@0	-28.75	-0.01529	±2.5	PASS	TL/VL
2	3.0	18900	1880.0	16QAM	15@0	-13.46	-0.00716	±2.5	PASS	TL/VL
2	3.0	19185	1908.5	QPSK	15@0	2.16	0.00113	±2.5	PASS	TL/VL
2	3.0	19185	1908.5	16QAM	15@0	-8.28	-0.00434	±2.5	PASS	TL/VL
2	5.0	18625	1852.5	QPSK	25@0	-45.42	-0.02452	±2.5	PASS	TL/VL
2	5.0	18625	1852.5	16QAM	25@0	-48.44	-0.02615	±2.5	PASS	TL/VL
2	5.0	18900	1880.0	QPSK	25@0	-40.55	-0.02157	±2.5	PASS	TL/VL
2	5.0	18900	1880.0	16QAM	25@0	-1.32	-0.0007	±2.5	PASS	TL/VL
2	5.0	19175	1907.5	QPSK	25@0	-13.39	-0.00702	±2.5	PASS	TL/VL
2	5.0	19175	1907.5	16QAM	25@0	-27.88	-0.01462	±2.5	PASS	TL/VL
2	10.0	18650	1855.0	QPSK	50@0	23.09	0.01245	±2.5	PASS	TL/VL
2	10.0	18650	1855.0	16QAM	50@0	-24.98	-0.01346	±2.5	PASS	TL/VL
2	10.0	18900	1880.0	QPSK	50@0	-38.61	-0.02054	±2.5	PASS	TL/VL
2	10.0	18900	1880.0	16QAM	50@0	-18.01	-0.00958	±2.5	PASS	TL/VL
2	10.0	19150	1905.0	QPSK	50@0	-15.55	-0.00816	±2.5	PASS	TL/VL
2	10.0	19150	1905.0	16QAM	50@0	-36.86	-0.01935	±2.5	PASS	TL/VL
2	15.0	18675	1857.5	QPSK	75@0	-2.17	-0.00117	±2.5	PASS	TL/VL
2	15.0	18675	1857.5	16QAM	75@0	-26.48	-0.01426	±2.5	PASS	TL/VL
2	15.0	18900	1880.0	QPSK	75@0	-44.13	-0.02347	±2.5	PASS	TL/VL
2	15.0	18900	1880.0	16QAM	75@0	-47.81	-0.02543	±2.5	PASS	TL/VL
2	15.0	19125	1902.5	QPSK	75@0	-35.2	-0.0185	±2.5	PASS	TL/VL
2	15.0	19125	1902.5	16QAM	75@0	2.23	0.00117	±2.5	PASS	TL/VL
2	20.0	18700	1860.0	QPSK	100@0	-21.93	-0.01179	±2.5	PASS	TL/VL
2	20.0	18700	1860.0	16QAM	100@0	-48.18	-0.0259	±2.5	PASS	TL/VL
2	20.0	18900	1880.0	QPSK	100@0	-4.89	-0.0026	±2.5	PASS	TL/VL
2	20.0	18900	1880.0	16QAM	100@0	-47.35	-0.02519	±2.5	PASS	TL/VL
2	20.0	19100	1900.0	QPSK	100@0	-41.3	-0.02174	±2.5	PASS	TL/VL
2	20.0	19100	1900.0	16QAM	100@0	-16.29	-0.00858	±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
2	1.4	18607	1850.7	QPSK	6@0	-7.64	-0.00413	±2.5	PASS	TN/VH
2	1.4	18607	1850.7	16QAM	6@0	10.06	0.00543	±2.5	PASS	TN/VH
2	1.4	18900	1880.0	QPSK	6@0	-43.16	-0.02296	±2.5	PASS	TN/VH
2	1.4	18900	1880.0	16QAM	6@0	-38.29	-0.02037	±2.5	PASS	TN/VH
2	1.4	19193	1909.3	QPSK	6@0	5.61	0.00294	±2.5	PASS	TN/VH
2	1.4	19193	1909.3	16QAM	6@0	40.6	0.02126	±2.5	PASS	TN/VH
2	3.0	18615	1851.5	QPSK	15@0	-39.32	-0.02124	±2.5	PASS	TN/VH
2	3.0	18615	1851.5	16QAM	15@0	-0.43	-0.00023	±2.5	PASS	TN/VH
2	3.0	18900	1880.0	QPSK	15@0	-53.6	-0.02851	±2.5	PASS	TN/VH
2	3.0	18900	1880.0	16QAM	15@0	-19.63	-0.01044	±2.5	PASS	TN/VH
2	3.0	19185	1908.5	QPSK	15@0	-26.05	-0.01365	±2.5	PASS	TN/VH
2	3.0	19185	1908.5	16QAM	15@0	-18.71	-0.0098	±2.5	PASS	TN/VH
2	5.0	18625	1852.5	QPSK	25@0	28.42	0.01534	±2.5	PASS	TN/VH
2	5.0	18625	1852.5	16QAM	25@0	-22.12	-0.01194	±2.5	PASS	TN/VH
2	5.0	18900	1880.0	QPSK	25@0	-23.25	-0.01236	±2.5	PASS	TN/VH
2	5.0	18900	1880.0	16QAM	25@0	-23.35	-0.01242	±2.5	PASS	TN/VH
2	5.0	19175	1907.5	QPSK	25@0	-22.09	-0.01158	±2.5	PASS	TN/VH
2	5.0	19175	1907.5	16QAM	25@0	-36.79	-0.01929	±2.5	PASS	TN/VH
2	10.0	18650	1855.0	QPSK	50@0	19.87	0.01071	±2.5	PASS	TN/VH
2	10.0	18650	1855.0	16QAM	50@0	-33.0	-0.01779	±2.5	PASS	TN/VH
2	10.0	18900	1880.0	QPSK	50@0	-32.83	-0.01746	±2.5	PASS	TN/VH
2	10.0	18900	1880.0	16QAM	50@0	-9.01	-0.00479	±2.5	PASS	TN/VH
2	10.0	19150	1905.0	QPSK	50@0	4.23	0.00222	±2.5	PASS	TN/VH
2	10.0	19150	1905.0	16QAM	50@0	-4.91	-0.00258	±2.5	PASS	TN/VH
2	15.0	18675	1857.5	QPSK	75@0	33.87	0.01824	±2.5	PASS	TN/VH
2	15.0	18675	1857.5	16QAM	75@0	3.75	0.00202	±2.5	PASS	TN/VH
2	15.0	18900	1880.0	QPSK	75@0	-32.0	-0.01702	±2.5	PASS	TN/VH
2	15.0	18900	1880.0	16QAM	75@0	-51.21	-0.02724	±2.5	PASS	TN/VH
2	15.0	19125	1902.5	QPSK	75@0	-6.31	-0.00332	±2.5	PASS	TN/VH
2	15.0	19125	1902.5	16QAM	75@0	-11.74	-0.00617	±2.5	PASS	TN/VH
2	20.0	18700	1860.0	QPSK	100@0	33.5	0.01801	±2.5	PASS	TN/VH
2	20.0	18700	1860.0	16QAM	100@0	-48.62	-0.02614	±2.5	PASS	TN/VH
2	20.0	18900	1880.0	QPSK	100@0	-39.67	-0.0211	±2.5	PASS	TN/VH
2	20.0	18900	1880.0	16QAM	100@0	-1.14	-0.00061	±2.5	PASS	TN/VH
2	20.0	19100	1900.0	QPSK	100@0	-18.9	-0.00995	±2.5	PASS	TN/VH
2	20.0	19100	1900.0	16QAM	100@0	-41.79	-0.02199	±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
2	1.4	18607	1850.7	QPSK	6@0	-34.8	-0.01881	±2.5	PASS	TN/VL
2	1.4	18607	1850.7	16QAM	6@0	10.86	0.00587	±2.5	PASS	TN/VL
2	1.4	18900	1880.0	QPSK	6@0	-34.88	-0.01855	±2.5	PASS	TN/VL
2	1.4	18900	1880.0	16QAM	6@0	-23.93	-0.01273	±2.5	PASS	TN/VL
2	1.4	19193	1909.3	QPSK	6@0	-10.3	-0.00539	±2.5	PASS	TN/VL
2	1.4	19193	1909.3	16QAM	6@0	-21.03	-0.01101	±2.5	PASS	TN/VL
2	3.0	18615	1851.5	QPSK	15@0	42.83	0.02313	±2.5	PASS	TN/VL
2	3.0	18615	1851.5	16QAM	15@0	-57.39	-0.031	±2.5	PASS	TN/VL
2	3.0	18900	1880.0	QPSK	15@0	-17.71	-0.00942	±2.5	PASS	TN/VL
2	3.0	18900	1880.0	16QAM	15@0	-29.24	-0.01555	±2.5	PASS	TN/VL
2	3.0	19185	1908.5	QPSK	15@0	-35.95	-0.01884	±2.5	PASS	TN/VL
2	3.0	19185	1908.5	16QAM	15@0	-16.38	-0.00858	±2.5	PASS	TN/VL
2	5.0	18625	1852.5	QPSK	25@0	21.19	0.01144	±2.5	PASS	TN/VL
2	5.0	18625	1852.5	16QAM	25@0	-14.76	-0.00797	±2.5	PASS	TN/VL
2	5.0	18900	1880.0	QPSK	25@0	-7.18	-0.00382	±2.5	PASS	TN/VL
2	5.0	18900	1880.0	16QAM	25@0	-24.16	-0.01285	±2.5	PASS	TN/VL
2	5.0	19175	1907.5	QPSK	25@0	-21.17	-0.0111	±2.5	PASS	TN/VL
2	5.0	19175	1907.5	16QAM	25@0	-51.51	-0.02701	±2.5	PASS	TN/VL
2	10.0	18650	1855.0	QPSK	50@0	13.29	0.00716	±2.5	PASS	TN/VL
2	10.0	18650	1855.0	16QAM	50@0	-45.86	-0.02472	±2.5	PASS	TN/VL
2	10.0	18900	1880.0	QPSK	50@0	-42.49	-0.0226	±2.5	PASS	TN/VL
2	10.0	18900	1880.0	16QAM	50@0	-28.68	-0.01526	±2.5	PASS	TN/VL
2	10.0	19150	1905.0	QPSK	50@0	-6.41	-0.00336	±2.5	PASS	TN/VL
2	10.0	19150	1905.0	16QAM	50@0	-36.82	-0.01933	±2.5	PASS	TN/VL
2	15.0	18675	1857.5	QPSK	75@0	16.72	0.009	±2.5	PASS	TN/VL
2	15.0	18675	1857.5	16QAM	75@0	-31.27	-0.01683	±2.5	PASS	TN/VL
2	15.0	18900	1880.0	QPSK	75@0	-45.73	-0.02433	±2.5	PASS	TN/VL
2	15.0	18900	1880.0	16QAM	75@0	-27.35	-0.01455	±2.5	PASS	TN/VL
2	15.0	19125	1902.5	QPSK	75@0	-22.03	-0.01158	±2.5	PASS	TN/VL
2	15.0	19125	1902.5	16QAM	75@0	2.62	0.00138	±2.5	PASS	TN/VL
2	20.0	18700	1860.0	QPSK	100@0	35.83	0.01927	±2.5	PASS	TN/VL
2	20.0	18700	1860.0	16QAM	100@0	-14.09	-0.00758	±2.5	PASS	TN/VL
2	20.0	18900	1880.0	QPSK	100@0	-37.68	-0.02004	±2.5	PASS	TN/VL
2	20.0	18900	1880.0	16QAM	100@0	-25.92	-0.01379	±2.5	PASS	TN/VL
2	20.0	19100	1900.0	QPSK	100@0	-2.89	-0.00152	±2.5	PASS	TN/VL
2	20.0	19100	1900.0	16QAM	100@0	-21.8	-0.01147	±2.5	PASS	TN/VL

7.Modulation Characteristics

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Verdict
2	1.4	18607	1850.7	QPSK	6@0	PASS
2	1.4	18607	1850.7	16QAM	6@0	PASS
2	1.4	18900	1880.0	QPSK	6@0	PASS
2	1.4	18900	1880.0	16QAM	6@0	PASS
2	1.4	19193	1909.3	QPSK	6@0	PASS
2	1.4	19193	1909.3	16QAM	6@0	PASS
2	3.0	18615	1851.5	QPSK	15@0	PASS
2	3.0	18615	1851.5	16QAM	15@0	PASS
2	3.0	18900	1880.0	QPSK	15@0	PASS
2	3.0	18900	1880.0	16QAM	15@0	PASS
2	3.0	19185	1908.5	QPSK	15@0	PASS
2	3.0	19185	1908.5	16QAM	15@0	PASS
2	5.0	18625	1852.5	QPSK	25@0	PASS
2	5.0	18625	1852.5	16QAM	25@0	PASS
2	5.0	18900	1880.0	QPSK	25@0	PASS
2	5.0	18900	1880.0	16QAM	25@0	PASS
2	5.0	19175	1907.5	QPSK	25@0	PASS
2	5.0	19175	1907.5	16QAM	25@0	PASS
2	10.0	18650	1855.0	QPSK	50@0	PASS
2	10.0	18650	1855.0	16QAM	50@0	PASS
2	10.0	18900	1880.0	QPSK	50@0	PASS
2	10.0	18900	1880.0	16QAM	50@0	PASS
2	10.0	19150	1905.0	QPSK	50@0	PASS
2	10.0	19150	1905.0	16QAM	50@0	PASS
2	15.0	18675	1857.5	QPSK	75@0	PASS
2	15.0	18675	1857.5	16QAM	75@0	PASS
2	15.0	18900	1880.0	QPSK	75@0	PASS
2	15.0	18900	1880.0	16QAM	75@0	PASS
2	15.0	19125	1902.5	QPSK	75@0	PASS
2	15.0	19125	1902.5	16QAM	75@0	PASS
2	20.0	18700	1860.0	QPSK	100@0	PASS
2	20.0	18700	1860.0	16QAM	100@0	PASS
2	20.0	18900	1880.0	QPSK	100@0	PASS
2	20.0	18900	1880.0	16QAM	100@0	PASS
2	20.0	19100	1900.0	QPSK	100@0	PASS
2	20.0	19100	1900.0	16QAM	100@0	PASS

Test Graphs

