

Appendix A Conduction Data for WCDMA

1.Transmitter Conducted Output Power And ERP/EIRP

Test Result

Band	Channel	Freq (MHz)	Connection Type	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)	ERP/EIRP(Li mit) (dBm)	Verdict
2	9262	1852.4	Voice	21.91	24.35	0.2721	33.01	PASS
2	9400	1880.0	Voice	21.89	24.33	0.2708	33.01	PASS
2	9538	1907.6	Voice	21.68	24.12	0.2581	33.01	PASS
2	9262	1852.4	RMC	21.76	24.2	0.263	33.01	PASS
2	9400	1880.0	RMC	21.89	24.33	0.2708	33.01	PASS
2	9538	1907.6	RMC	21.89	24.33	0.2712	33.01	PASS
2	9262	1852.4	HSDPA Subtest-1	21.53	23.97	0.2496	33.01	PASS
2	9400	1880.0	HSDPA Subtest-1	21.32	23.76	0.2378	33.01	PASS
2	9538	1907.6	HSDPA Subtest-1	21.46	23.9	0.2454	33.01	PASS
2	9262	1852.4	HSDPA Subtest-2	21.41	23.85	0.2426	33.01	PASS
2	9400	1880.0	HSDPA Subtest-2	21.16	23.6	0.2291	33.01	PASS
2	9538	1907.6	HSDPA Subtest-2	21.12	23.56	0.2268	33.01	PASS
2	9262	1852.4	HSDPA Subtest-3	21.42	23.86	0.2433	33.01	PASS
2	9400	1880.0	HSDPA Subtest-3	21.21	23.65	0.2316	33.01	PASS
2	9538	1907.6	HSDPA Subtest-3	21.21	23.65	0.2317	33.01	PASS
2	9262	1852.4	HSDPA Subtest-4	21.4	23.84	0.2422	33.01	PASS
2	9400	1880.0	HSDPA Subtest-4	21.19	23.63	0.2307	33.01	PASS
2	9538	1907.6	HSDPA Subtest-4	21.14	23.58	0.2278	33.01	PASS
2	9262	1852.4	HSUPA Subtest-1	22.25	24.69	0.2947	33.01	PASS
2	9400	1880.0	HSUPA Subtest-1	22.08	24.52	0.2831	33.01	PASS
2	9538	1907.6	HSUPA Subtest-1	21.98	24.42	0.277	33.01	PASS
2	9262	1852.4	HSUPA Subtest-2	22.28	24.72	0.2965	33.01	PASS
2	9400	1880.0	HSUPA Subtest-2	22.05	24.49	0.2809	33.01	PASS
2	9538	1907.6	HSUPA Subtest-2	22.1	24.54	0.2845	33.01	PASS
2	9262	1852.4	HSUPA Subtest-3	22.36	24.8	0.3021	33.01	PASS
2	9400	1880.0	HSUPA Subtest-3	22.45	24.89	0.3083	33.01	PASS
2	9538	1907.6	HSUPA Subtest-3	21.97	24.41	0.2761	33.01	PASS
2	9262	1852.4	HSUPA Subtest-4	22.21	24.65	0.2916	33.01	PASS
2	9400	1880.0	HSUPA Subtest-4	22.15	24.59	0.2879	33.01	PASS
2	9538	1907.6	HSUPA Subtest-4	22.06	24.5	0.2817	33.01	PASS
2	9262	1852.4	HSUPA Subtest-5	22.41	24.85	0.3058	33.01	PASS
2	9400	1880.0	HSUPA Subtest-5	22.22	24.66	0.2922	33.01	PASS
2	9538	1907.6	HSUPA Subtest-5	22.07	24.51	0.2828	33.01	PASS
4	1312	1712.4	Voice	22.42	24.9	0.3089	30	PASS
4	1412	1732.4	Voice	22.61	25.09	0.3227	30	PASS
4	1513	1752.6	Voice	22.59	25.07	0.3211	30	PASS
4	1312	1712.4	RMC	22.66	25.14	0.3269	30	PASS
4	1412	1732.4	RMC	22.64	25.12	0.325	30	PASS
4	1513	1752.6	RMC	22.6	25.08	0.3222	30	PASS
4	1312	1712.4	HSDPA Subtest-1	22.36	24.84	0.3047	30	PASS
4	1412	1732.4	HSDPA Subtest-1	22.61	25.09	0.3228	30	PASS
4	1513	1752.6	HSDPA Subtest-1	22.49	24.97	0.3138	30	PASS
4	1312	1712.4	HSDPA Subtest-2	22.08	24.56	0.2859	30	PASS
4	1412	1732.4	HSDPA Subtest-2	22.22	24.7	0.2952	30	PASS
4	1513	1752.6	HSDPA Subtest-2	22.02	24.5	0.2815	30	PASS
4	1312	1712.4	HSDPA Subtest-3	21.86	24.34	0.2718	30	PASS
4	1412	1732.4	HSDPA Subtest-3	22.04	24.52	0.2833	30	PASS
4	1513	1752.6	HSDPA Subtest-3	21.68	24.16	0.2604	30	PASS
4	1312	1712.4	HSDPA Subtest-4	21.83	24.31	0.2695	30	PASS
4	1412	1732.4	HSDPA Subtest-4	22.02	24.5	0.2818	30	PASS
4	1513	1752.6	HSDPA Subtest-4	21.72	24.2	0.2631	30	PASS
4	1312	1712.4	HSUPA Subtest-1	22.25	24.73	0.2974	30	PASS
4	1412	1732.4	HSUPA Subtest-1	22.12	24.6	0.2884	30	PASS
4	1513	1752.6	HSUPA Subtest-1	22.24	24.72	0.2966	30	PASS
4	1312	1712.4	HSUPA Subtest-2	22.24	24.72	0.2964	30	PASS
4	1412	1732.4	HSUPA Subtest-2	22.46	24.94	0.3117	30	PASS
4	1513	1752.6	HSUPA Subtest-2	22.18	24.66	0.2924	30	PASS
4	1312	1712.4	HSUPA Subtest-3	22.34	24.82	0.3031	30	PASS
4	1412	1732.4	HSUPA Subtest-3	22.48	24.96	0.3136	30	PASS
4	1513	1752.6	HSUPA Subtest-3	22.16	24.64	0.2912	30	PASS
4	1312	1712.4	HSUPA Subtest-4	22.28	24.76	0.299	30	PASS
4	1412	1732.4	HSUPA Subtest-4	22.47	24.95	0.313	30	PASS
4	1513	1752.6	HSUPA Subtest-4	22.22	24.7	0.295	30	PASS
4	1312	1712.4	HSUPA Subtest-5	22.35	24.83	0.3044	30	PASS
4	1412	1732.4	HSUPA Subtest-5	22.5	24.98	0.3145	30	PASS
4	1513	1752.6	HSUPA Subtest-5	22.21	24.69	0.2945	30	PASS
5	4132	826.4	Voice	22.43	19.17	0.0826	38.45	PASS
5	4182	836.4	Voice	22.59	19.33	0.0857	38.45	PASS
5	4233	846.6	Voice	22.58	19.32	0.0855	38.45	PASS
5	4132	826.4	RMC	22.38	19.12	0.0816	38.45	PASS
5	4182	836.4	RMC	22.59	19.33	0.0858	38.45	PASS
5	4233	846.6	RMC	22.58	19.32	0.0855	38.45	PASS
5	4132	826.4	HSDPA Subtest-1	22.53	19.27	0.0846	38.45	PASS
5	4182	836.4	HSDPA Subtest-1	22.81	19.55	0.0901	38.45	PASS

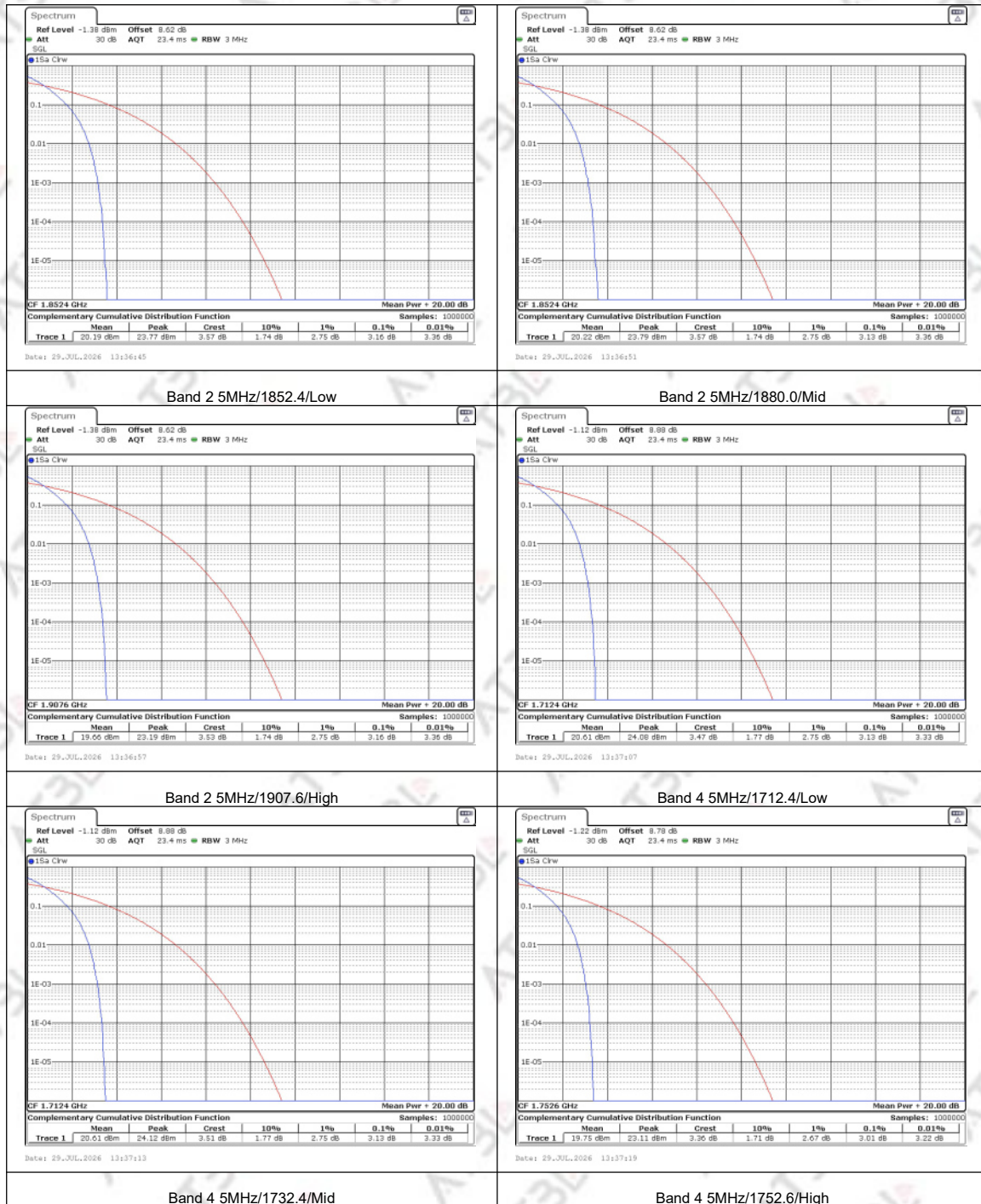
5	4233	846.6	HSDPA Subtest-1	22.58	19.32	0.0855	38.45	PASS
5	4132	826.4	HSDPA Subtest-2	22.34	19.08	0.081	38.45	PASS
5	4182	836.4	HSDPA Subtest-2	22.64	19.38	0.0867	38.45	PASS
5	4233	846.6	HSDPA Subtest-2	22.34	19.08	0.0809	38.45	PASS
5	4132	826.4	HSDPA Subtest-3	20.93	17.67	0.0585	38.45	PASS
5	4182	836.4	HSDPA Subtest-3	21.14	17.88	0.0614	38.45	PASS
5	4233	846.6	HSDPA Subtest-3	20.81	17.55	0.0569	38.45	PASS
5	4132	826.4	HSDPA Subtest-4	20.88	17.62	0.0578	38.45	PASS
5	4182	836.4	HSDPA Subtest-4	21.1	17.84	0.0608	38.45	PASS
5	4233	846.6	HSDPA Subtest-4	20.83	17.57	0.0571	38.45	PASS
5	4132	826.4	HSUPA Subtest-1	22.47	19.21	0.0834	38.45	PASS
5	4182	836.4	HSUPA Subtest-1	22.72	19.46	0.0883	38.45	PASS
5	4233	846.6	HSUPA Subtest-1	22.51	19.25	0.0841	38.45	PASS
5	4132	826.4	HSUPA Subtest-2	22.5	19.24	0.0839	38.45	PASS
5	4182	836.4	HSUPA Subtest-2	22.72	19.46	0.0883	38.45	PASS
5	4233	846.6	HSUPA Subtest-2	22.44	19.18	0.0827	38.45	PASS
5	4132	826.4	HSUPA Subtest-3	22.55	19.29	0.0849	38.45	PASS
5	4182	836.4	HSUPA Subtest-3	22.7	19.44	0.0879	38.45	PASS
5	4233	846.6	HSUPA Subtest-3	22.45	19.19	0.0829	38.45	PASS
5	4132	826.4	HSUPA Subtest-4	22.55	19.29	0.085	38.45	PASS
5	4182	836.4	HSUPA Subtest-4	22.79	19.53	0.0897	38.45	PASS
5	4233	846.6	HSUPA Subtest-4	22.5	19.24	0.0839	38.45	PASS
5	4132	826.4	HSUPA Subtest-5	22.57	19.31	0.0853	38.45	PASS
5	4182	836.4	HSUPA Subtest-5	22.81	19.55	0.0902	38.45	PASS
5	4233	846.6	HSUPA Subtest-5	22.55	19.29	0.0849	38.45	PASS

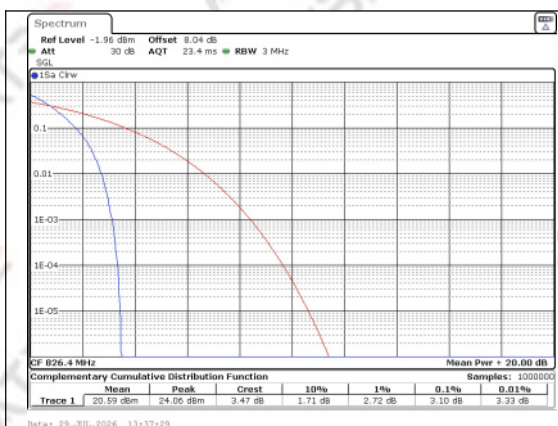
2. Peak to Average Ratio

Test Result

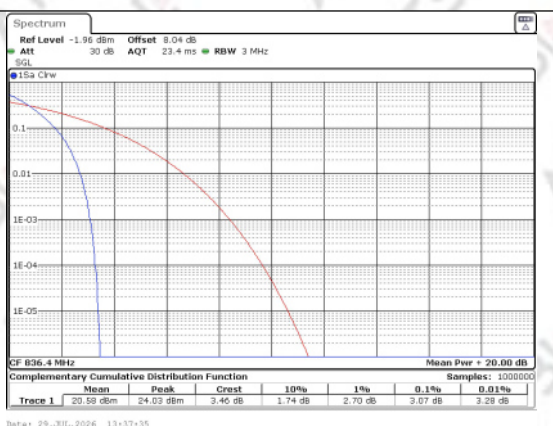
Band	Channel	Freq (MHz)	Result (dB)	Limit (dB)	Verdict
2	9262	1852.4	3.16	13	PASS
2	9400	1852.4	3.13	13	PASS
2	9538	1907.6	3.16	13	PASS
4	1312	1712.4	3.13	13	PASS
4	1412	1712.4	3.13	13	PASS
4	1513	1752.6	3.01	13	PASS
5	4132	826.4	3.10	13	PASS
5	4182	836.4	3.07	13	PASS
5	4233	846.6	3.16	13	PASS

Test Graphs

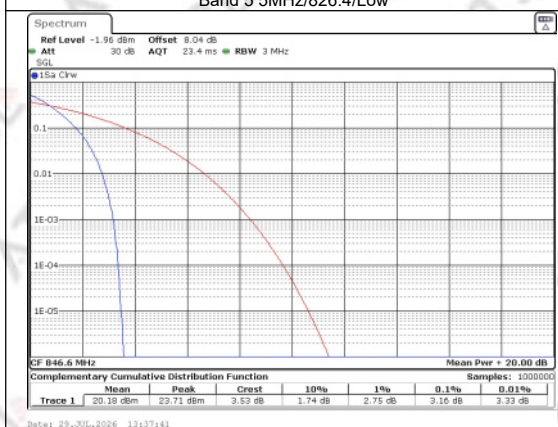




Band 5 5MHz/826.4/Low



Band 5 5MHz/836.4/Mid



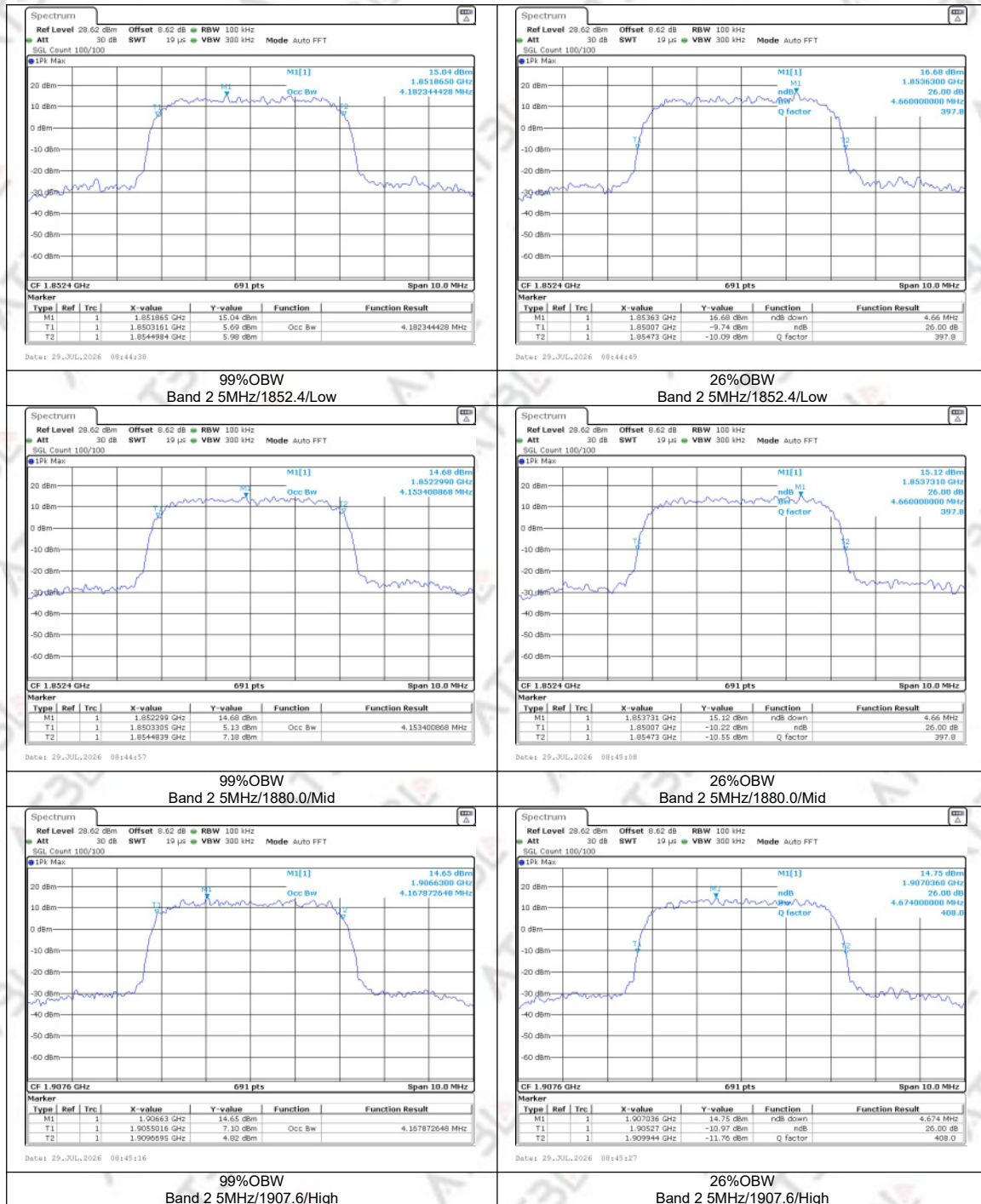
Band 5 5MHz/846.6/High

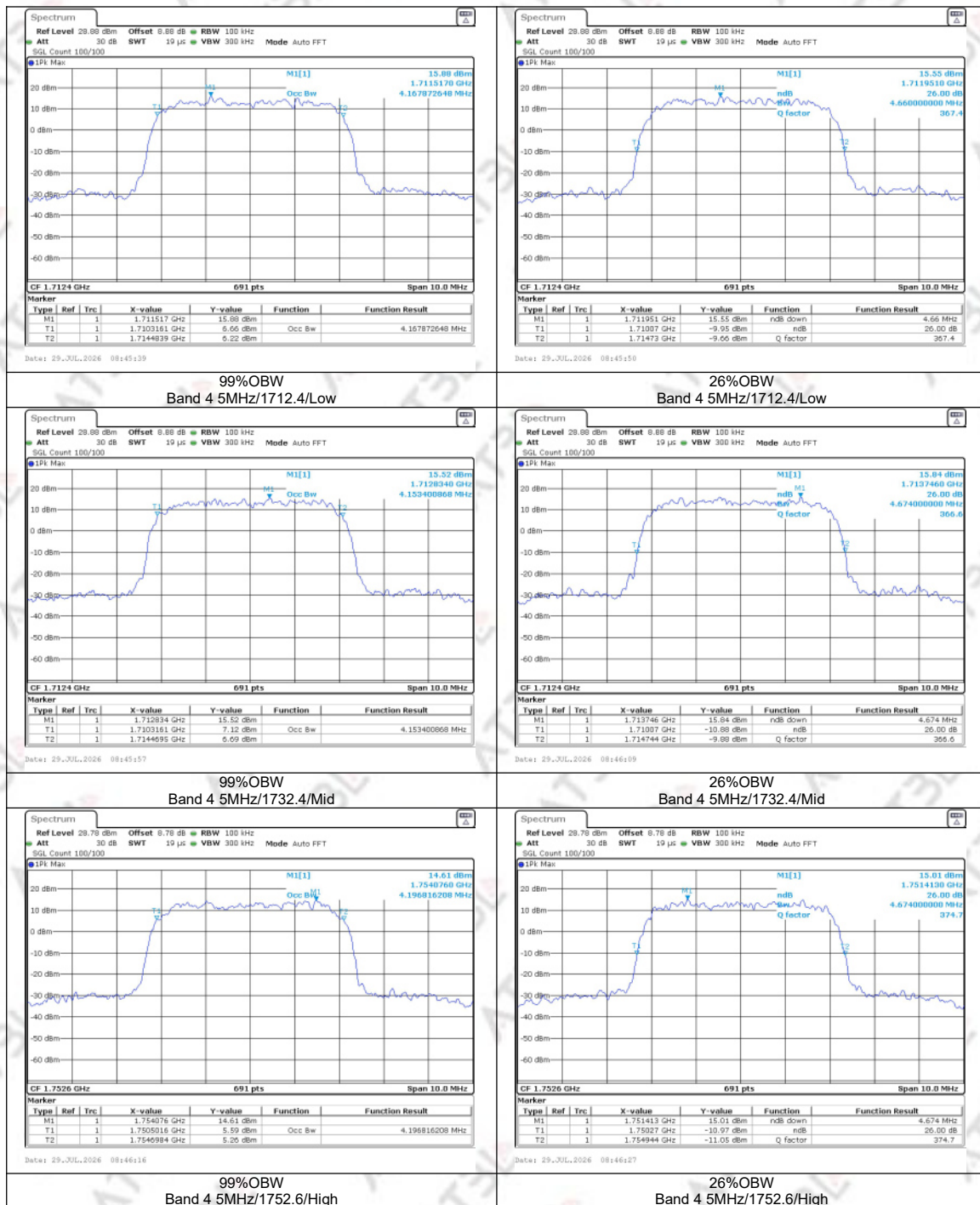
3.Occupied Bandwidth

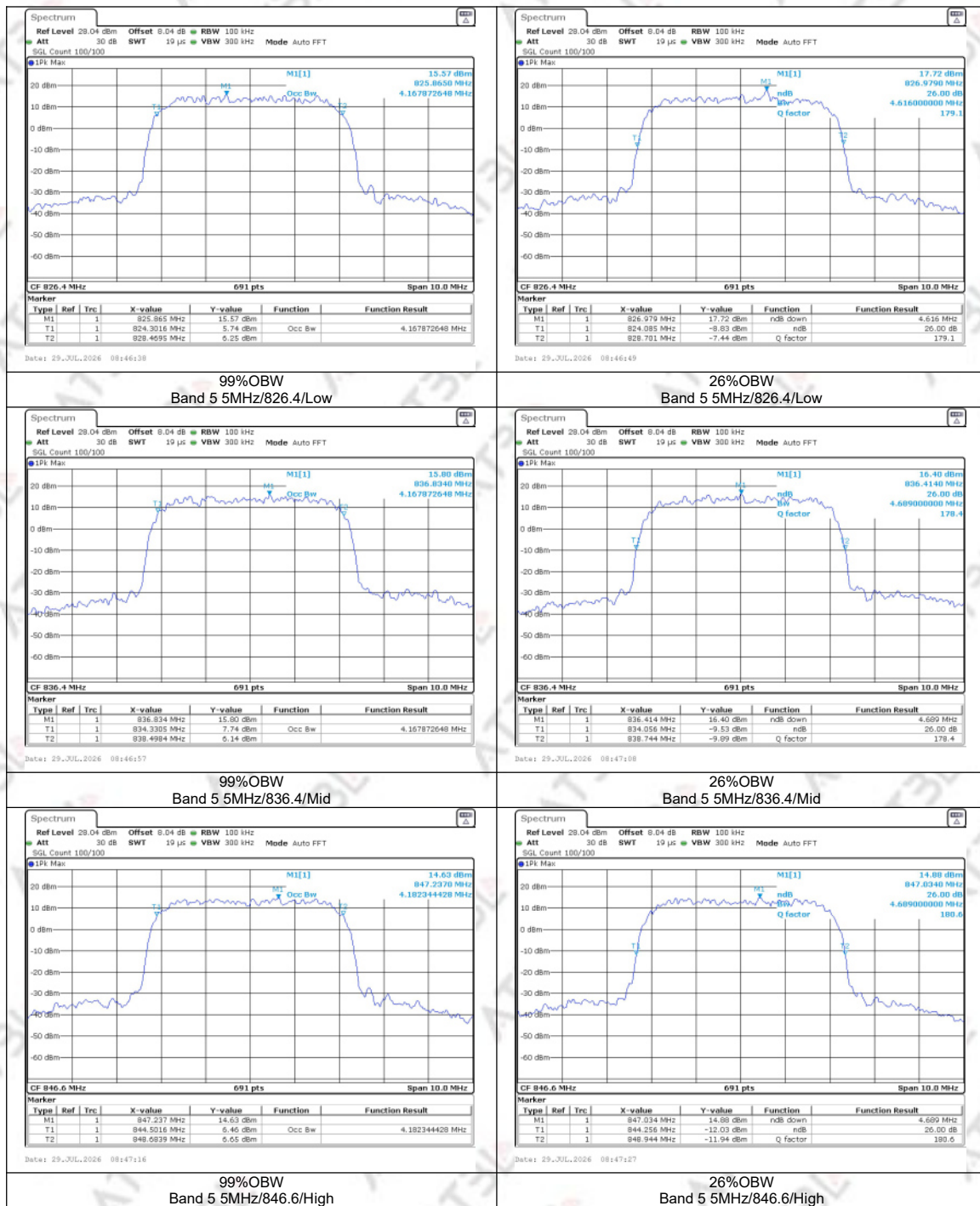
Test Result

Band	Channel	Freq (MHz)	OBW (MHz)	26dB BW (MHz)	Verdict
2	9262	1852.4	4.1823	4.660	PASS
2	9400	1852.4	4.1534	4.660	PASS
2	9538	1907.6	4.1679	4.674	PASS
4	1312	1712.4	4.1679	4.660	PASS
4	1412	1712.4	4.1534	4.674	PASS
4	1513	1752.6	4.1968	4.674	PASS
5	4132	826.4	4.1679	4.616	PASS
5	4182	836.4	4.1679	4.689	PASS
5	4233	846.6	4.1823	4.689	PASS

Test Graphs





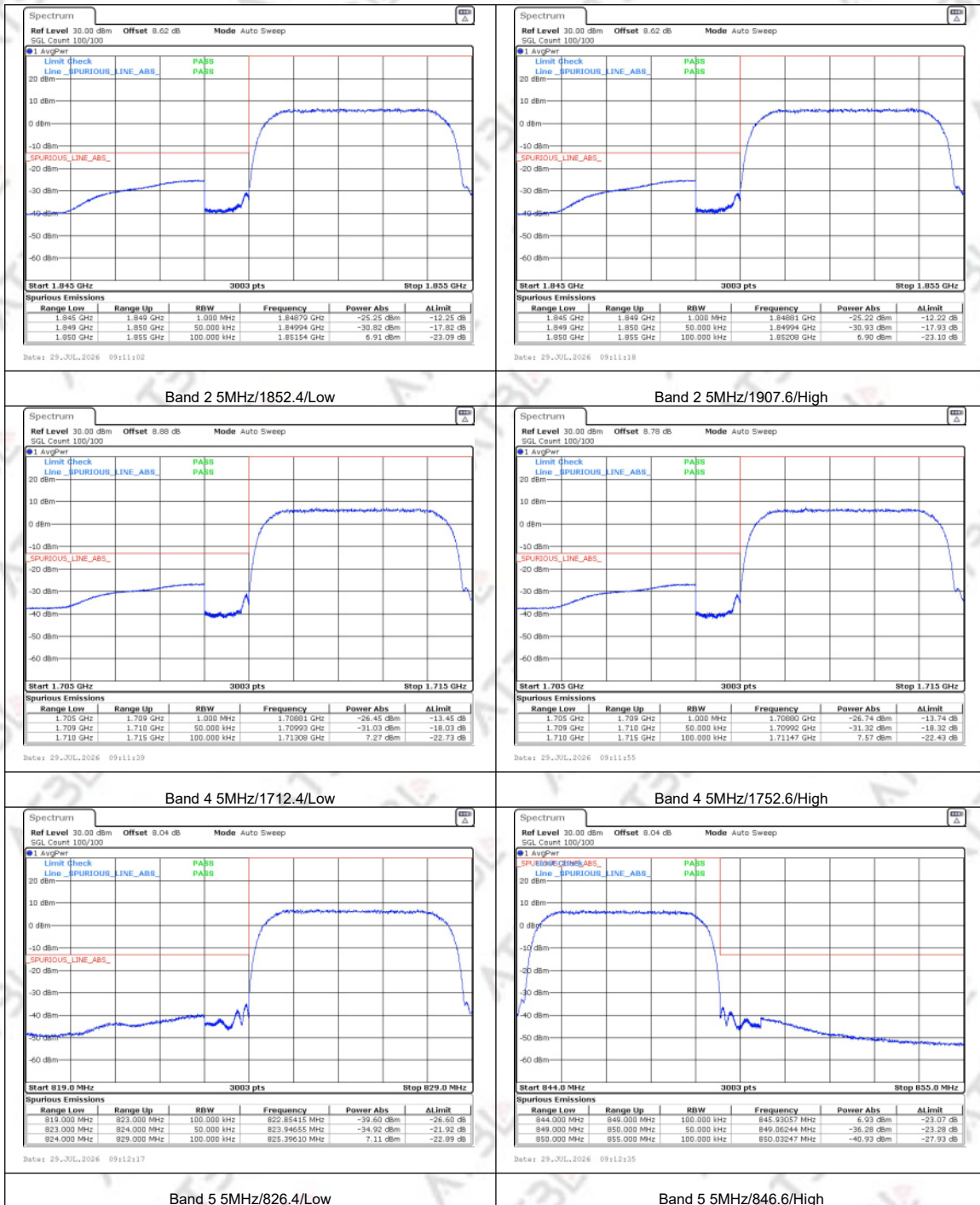


4. Conducted Band Edge

Test Result

Band	Channel	Freq (MHz)	Result	Verdict
2	9262	1852.4	see graph	PASS
2	9538	1852.4	see graph	PASS
4	1312	1712.4	see graph	PASS
4	1513	1712.4	see graph	PASS
5	4132	826.4	see graph	PASS
5	4233	846.6	see graph	PASS

Test Graphs

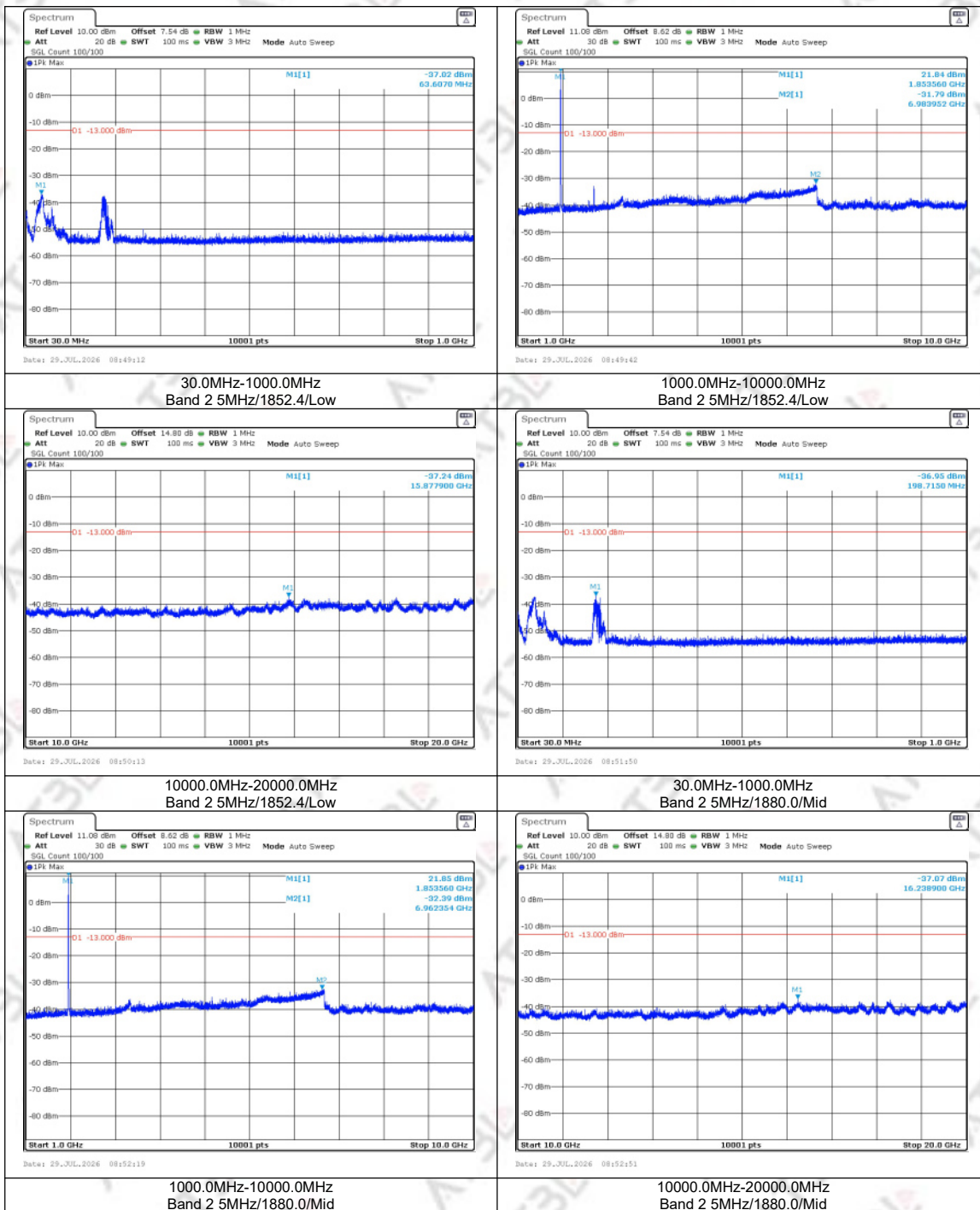


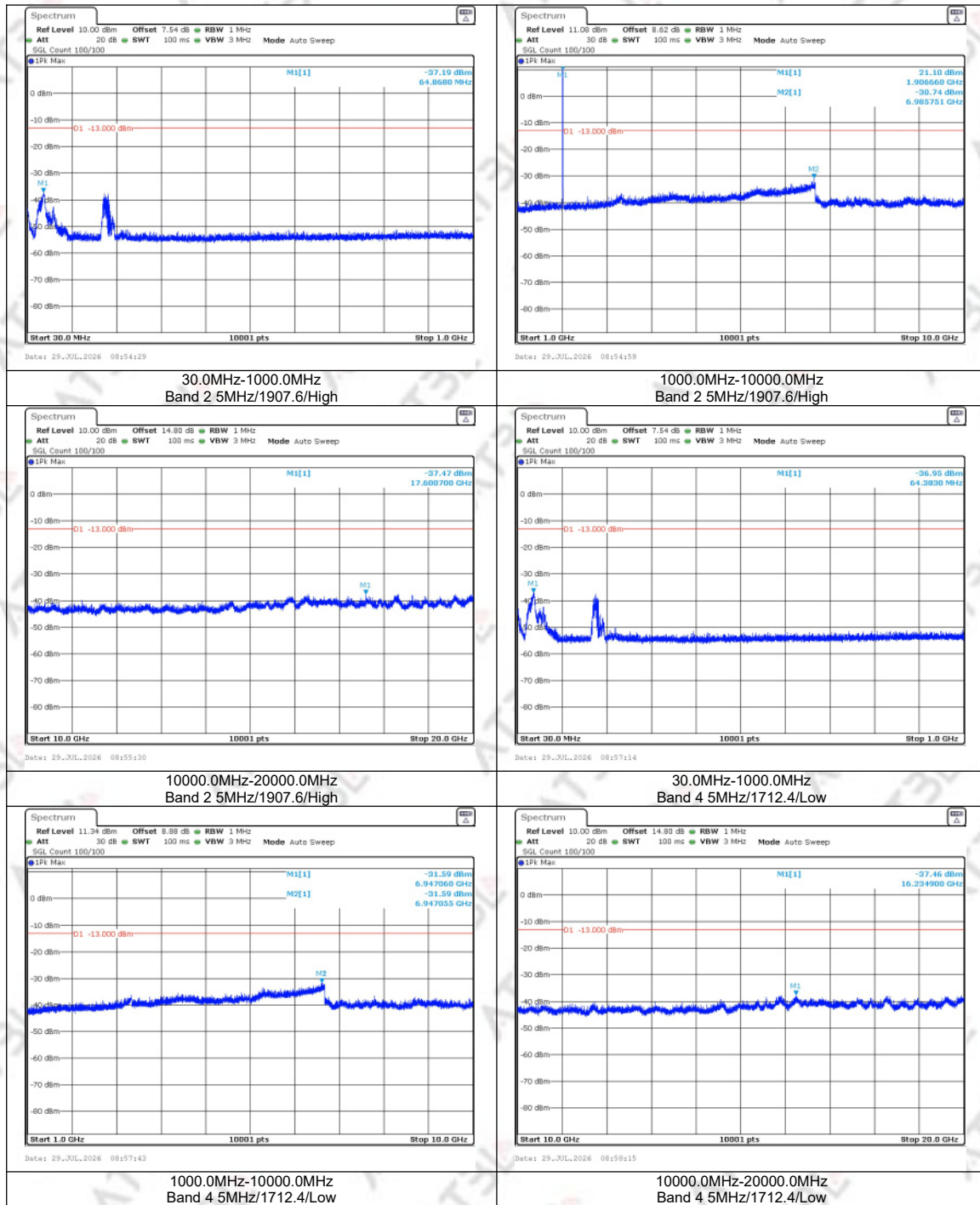
5.Conducted Spurious Emissions

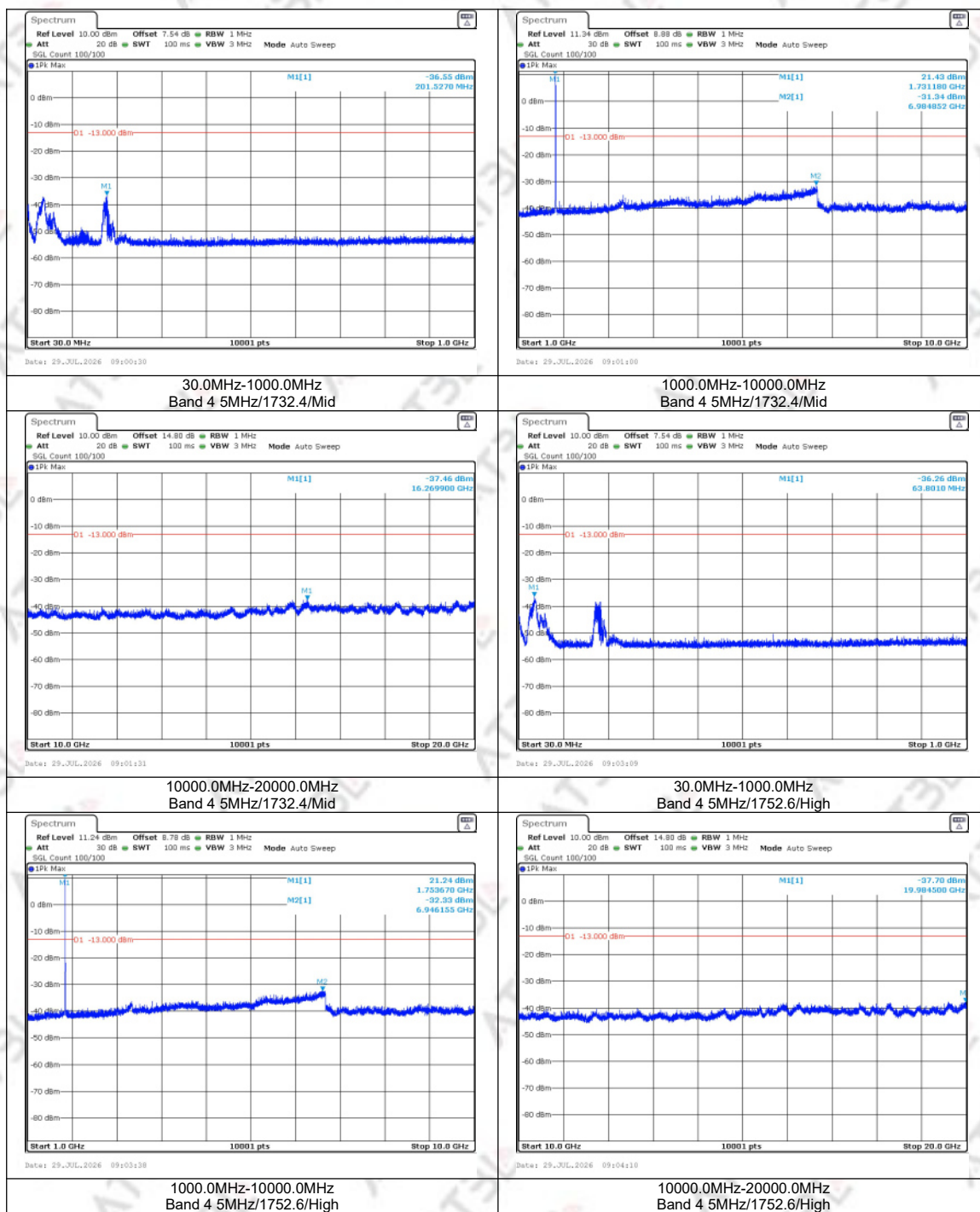
Test Result

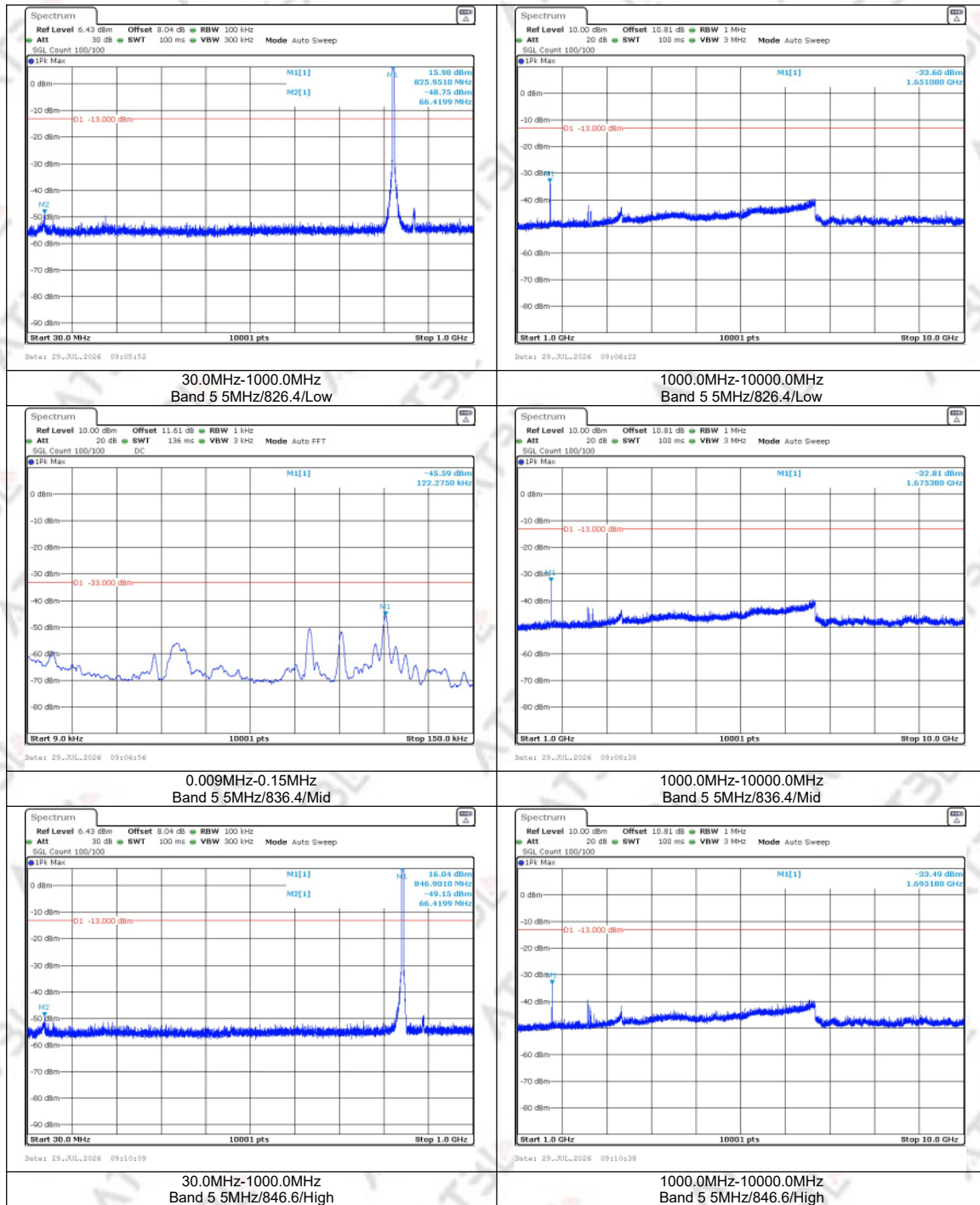
Band	Channel	Freq (MHz)	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
2	9262	1852.4	30.0	1000.0	-37.02	-13	PASS
2	9262	1852.4	1000.0	10000.0	-31.79	-13	PASS
2	9262	1852.4	10000.0	20000.0	-37.24	-13	PASS
2	9400	1852.4	30.0	1000.0	-36.95	-13	PASS
2	9400	1852.4	1000.0	10000.0	-32.39	-13	PASS
2	9400	1852.4	10000.0	20000.0	-37.07	-13	PASS
2	9538	1907.6	30.0	1000.0	-37.19	-13	PASS
2	9538	1907.6	1000.0	10000.0	-30.74	-13	PASS
2	9538	1907.6	10000.0	20000.0	-37.47	-13	PASS
4	1312	1712.4	30.0	1000.0	-36.95	-13	PASS
4	1312	1712.4	1000.0	10000.0	-31.59	-13	PASS
4	1312	1712.4	10000.0	20000.0	-37.47	-13	PASS
4	1412	1732.4	30.0	1000.0	-36.55	-13	PASS
4	1412	1732.4	1000.0	10000.0	-31.34	-13	PASS
4	1412	1732.4	10000.0	20000.0	-37.46	-13	PASS
4	1513	1752.6	30.0	1000.0	-36.26	-13	PASS
4	1513	1752.6	1000.0	10000.0	-32.33	-13	PASS
4	1513	1752.6	10000.0	20000.0	-37.7	-13	PASS
5	4132	826.4	30.0	1000.0	-48.75	-13	PASS
5	4132	826.4	1000.0	10000.0	-33.6	-13	PASS
5	4182	836.4	30.0	1000.0	-50.75	-13	PASS
5	4182	836.4	1000.0	10000.0	-32.81	-13	PASS
5	4233	846.6	30.0	1000.0	-49.15	-13	PASS
5	4233	846.6	1000.0	10000.0	-33.49	-13	PASS

Test Graphs









6.Frequency Stability-TH/VH

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-0.26	-0.000139	±2.5	PASS	TH/VH
2	9400	1880.0	-1.71	-0.000909	±2.5	PASS	TH/VH
2	9538	1907.6	-0.51	-0.000266	±2.5	PASS	TH/VH
4	1312	1712.4	-0.38	-0.000221	±2.5	PASS	TH/VH
4	1412	1732.4	1.26	0.000727	±2.5	PASS	TH/VH
4	1513	1752.6	3.89	0.00222	±2.5	PASS	TH/VH
5	4132	826.4	-0.57	-0.000684	±2.5	PASS	TH/VH
5	4182	836.4	-0.83	-0.000992	±2.5	PASS	TH/VH
5	4233	846.6	0.32	0.000378	±2.5	PASS	TH/VH

Frequency Stability-TH/VL

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	0.32	0.000173	±2.5	PASS	TH/VL
2	9400	1880.0	0.99	0.000525	±2.5	PASS	TH/VL
2	9538	1907.6	1.52	0.000795	±2.5	PASS	TH/VL
4	1312	1712.4	-1.04	-0.00061	±2.5	PASS	TH/VL
4	1412	1732.4	-0.7	-0.000405	±2.5	PASS	TH/VL
4	1513	1752.6	3.96	0.002257	±2.5	PASS	TH/VL
5	4132	826.4	0.45	0.000545	±2.5	PASS	TH/VL
5	4182	836.4	0.32	0.000383	±2.5	PASS	TH/VL
5	4233	846.6	-0.5	-0.000591	±2.5	PASS	TH/VL

Frequency Stability-TH/VN

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	0.28	0.000151	±2.5	PASS	TH/VN
2	9400	1880.0	-3.59	-0.00191	±2.5	PASS	TH/VN
2	9538	1907.6	-2.18	-0.001144	±2.5	PASS	TH/VN
4	1312	1712.4	-0.77	-0.000451	±2.5	PASS	TH/VN
4	1412	1732.4	-2.94	-0.001697	±2.5	PASS	TH/VN
4	1513	1752.6	1.15	0.000657	±2.5	PASS	TH/VN
5	4132	826.4	-0.59	-0.00071	±2.5	PASS	TH/VN
5	4182	836.4	0.32	0.000383	±2.5	PASS	TH/VN
5	4233	846.6	0.32	0.000378	±2.5	PASS	TH/VN

Frequency Stability-TL/VL

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-0.35	-0.000189	±2.5	PASS	TL/VH
2	9400	1880.0	0.32	0.00017	±2.5	PASS	TL/VH
2	9538	1907.6	-0.55	-0.000289	±2.5	PASS	TL/VH
4	1312	1712.4	-1.52	-0.00089	±2.5	PASS	TL/VH
4	1412	1732.4	6.48	0.003741	±2.5	PASS	TL/VH
4	1513	1752.6	1.75	0.001	±2.5	PASS	TL/VH
5	4132	826.4	-0.92	-0.001108	±2.5	PASS	TL/VH
5	4182	836.4	0.32	0.000383	±2.5	PASS	TL/VH
5	4233	846.6	-0.24	-0.000287	±2.5	PASS	TL/VH

Frequency Stability-TL/VL

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	0.36	0.000197	±2.5	PASS	TL/VL
2	9400	1880.0	2.11	0.001122	±2.5	PASS	TL/VL
2	9538	1907.6	2.01	0.001054	±2.5	PASS	TL/VL
4	1312	1712.4	-0.94	-0.000547	±2.5	PASS	TL/VL
4	1412	1732.4	0.59	0.000343	±2.5	PASS	TL/VL
4	1513	1752.6	0.62	0.000351	±2.5	PASS	TL/VL
5	4132	826.4	0.54	0.000649	±2.5	PASS	TL/VL
5	4182	836.4	-1.14	-0.00136	±2.5	PASS	TL/VL
5	4233	846.6	-1.02	-0.0012	±2.5	PASS	TL/VL

Frequency Stability-TL/VN

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-0.31	-0.000166	±2.5	PASS	TL/VN
2	9400	1880.0	3.18	0.001689	±2.5	PASS	TL/VN
2	9538	1907.6	2.95	0.001549	±2.5	PASS	TL/VN
4	1312	1712.4	1.91	0.001115	±2.5	PASS	TL/VN
4	1412	1732.4	0.26	0.000149	±2.5	PASS	TL/VN
4	1513	1752.6	1.43	0.000816	±2.5	PASS	TL/VN
5	4132	826.4	-0.42	-0.000511	±2.5	PASS	TL/VN
5	4182	836.4	-0.45	-0.000539	±2.5	PASS	TL/VN
5	4233	846.6	-0.26	-0.000304	±2.5	PASS	TL/VN

Frequency Stability-TN/VH

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	0.21	0.000112	±2.5	PASS	TN/VH
2	9400	1880.0	-1.68	-0.000894	±2.5	PASS	TN/VH
2	9538	1907.6	-2.43	-0.001275	±2.5	PASS	TN/VH
4	1312	1712.4	-3.73	-0.00218	±2.5	PASS	TN/VH
4	1412	1732.4	0.41	0.000239	±2.5	PASS	TN/VH
4	1513	1752.6	3.29	0.001877	±2.5	PASS	TN/VH
5	4132	826.4	0.84	0.001021	±2.5	PASS	TN/VH
5	4182	836.4	-0.57	-0.000684	±2.5	PASS	TN/VH
5	4233	846.6	0.65	0.000769	±2.5	PASS	TN/VH

Frequency Stability-TN/VL

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-0.31	-0.00017	±2.5	PASS	TN/VL
2	9400	1880.0	-0.69	-0.000365	±2.5	PASS	TN/VL
2	9538	1907.6	-1.36	-0.000712	±2.5	PASS	TN/VL
4	1312	1712.4	2.01	0.001174	±2.5	PASS	TN/VL
4	1412	1732.4	2.4	0.001383	±2.5	PASS	TN/VL
4	1513	1752.6	-5.2	-0.002967	±2.5	PASS	TN/VL
5	4132	826.4	0.32	0.000387	±2.5	PASS	TN/VL
5	4182	836.4	0.32	0.000383	±2.5	PASS	TN/VL
5	4233	846.6	0.51	0.000608	±2.5	PASS	TN/VL

Frequency Stability-TN/VN

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-0.46	-0.000251	±2.5	PASS	TN/VN
2	9400	1880.0	-5.98	-0.003181	±2.5	PASS	TN/VN
2	9538	1907.6	-3.15	-0.001654	±2.5	PASS	TN/VN
4	1312	1712.4	0.3	0.000175	±2.5	PASS	TN/VN
4	1412	1732.4	1.39	0.000801	±2.5	PASS	TN/VN
4	1513	1752.6	-1.09	-0.00062	±2.5	PASS	TN/VN
5	4132	826.4	0.32	0.000387	±2.5	PASS	TN/VN
5	4182	836.4	1.38	0.00165	±2.5	PASS	TN/VN
5	4233	846.6	-2.06	-0.002433	±2.5	PASS	TN/VN

7.Modulation Characteristics

Test Result

Band	Channel	Freq (MHz)	Verdict
2	9262	1852.4	PASS
2	9400	1880.0	PASS
2	9538	1907.6	PASS
4	1312	1712.4	PASS
4	1412	1732.4	PASS
4	1513	1752.6	PASS
5	4132	826.4	PASS
5	4182	836.4	PASS
5	4233	846.6	PASS