

Appendix for GSM850

Product Name: Wireless data terminal

Model No: SC55G

Appendix A: Average Power Output Data

Test Result

Band	Channel	ERP/EIRP(dBm)	Verdict
GSM850	128	32.78	PASS
GSM850	190	32.63	PASS
GSM850	251	32.88	PASS

Band	Channel	Slot	Power(dBm)	Verdict
GPRS850	128	1	32.70	PASS
GPRS850	128	2	31.84	PASS
GPRS850	128	3	30.04	PASS
GPRS850	128	4	28.75	PASS
GPRS850	190	1	32.52	PASS
GPRS850	190	2	31.58	PASS
GPRS850	190	3	29.61	PASS
GPRS850	190	4	28.28	PASS
GPRS850	251	1	32.76	PASS
GPRS850	251	2	31.91	PASS
GPRS850	251	3	30.03	PASS
GPRS850	251	4	28.75	PASS

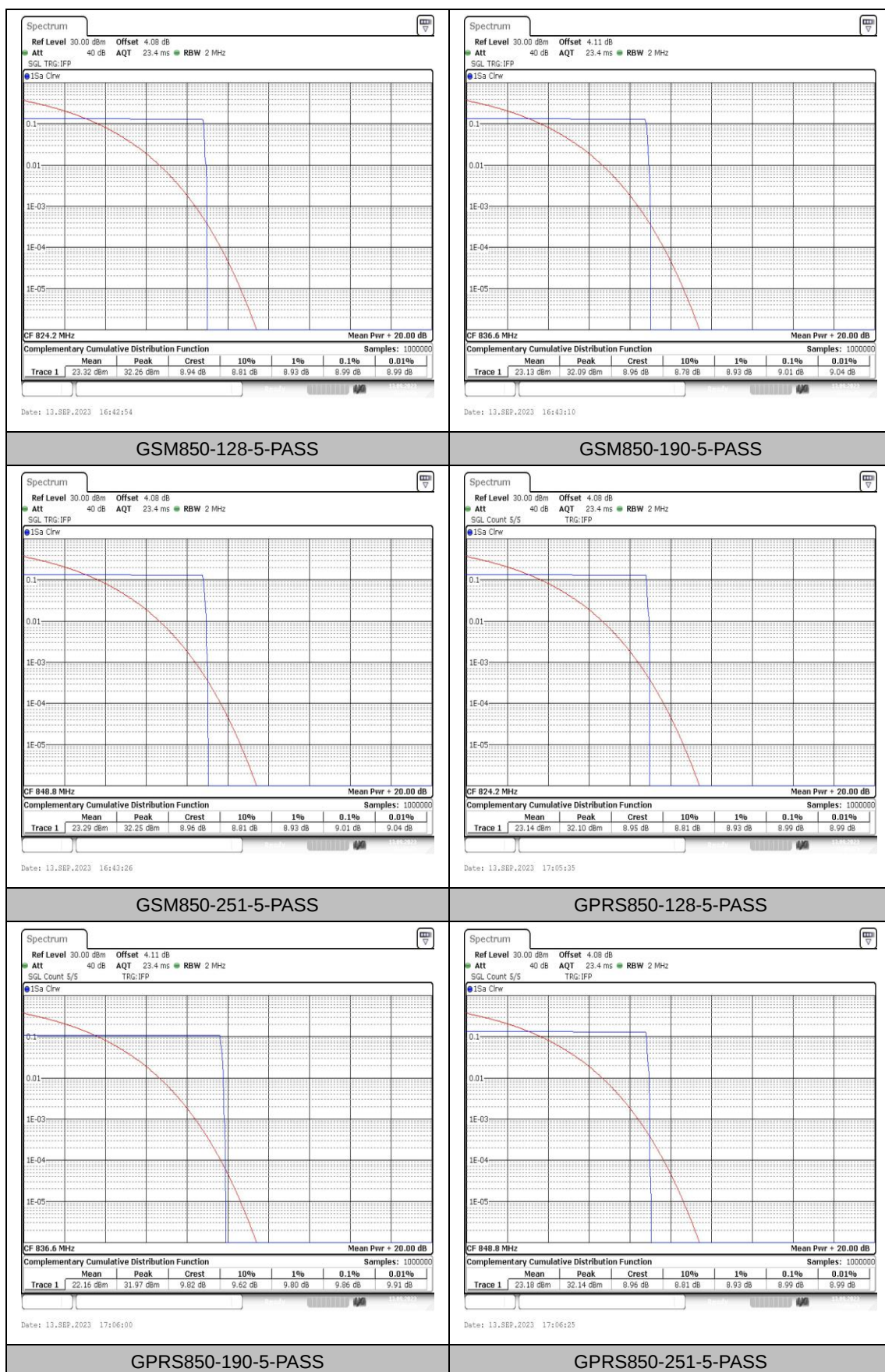
Band	Channel	Slot	Power(dBm)	Verdict
EGPRS850	128	1	27.29	PASS
EGPRS850	128	2	26.51	PASS
EGPRS850	128	3	24.83	PASS
EGPRS850	128	4	23.83	PASS
EGPRS850	190	1	26.79	PASS
EGPRS850	190	2	25.97	PASS
EGPRS850	190	3	24.31	PASS
EGPRS850	190	4	23.29	PASS
EGPRS850	251	1	27.17	PASS
EGPRS850	251	2	26.38	PASS
EGPRS850	251	3	24.66	PASS
EGPRS850	251	4	23.75	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

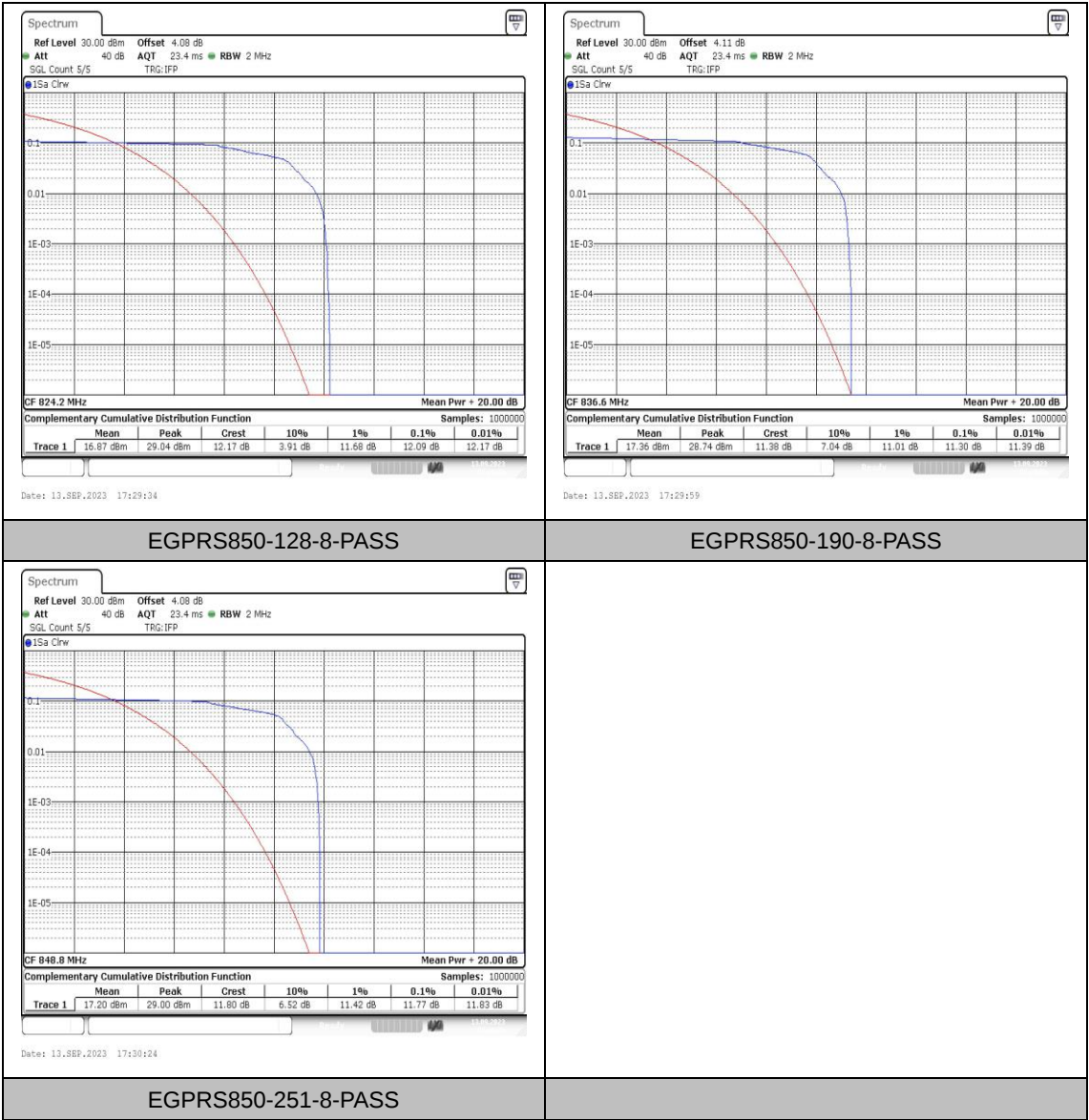
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.99	13	PASS
GSM850	190	9.01	13	PASS
GSM850	251	9.01	13	PASS
GPRS850	128	8.99	13	PASS
GPRS850	190	9.86	13	PASS
GPRS850	251	8.99	13	PASS
EGPRS850	128	12.09	13	PASS
EGPRS850	190	11.3	13	PASS
EGPRS850	251	11.77	13	PASS

Test Graphs



Waltek Testing Group (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

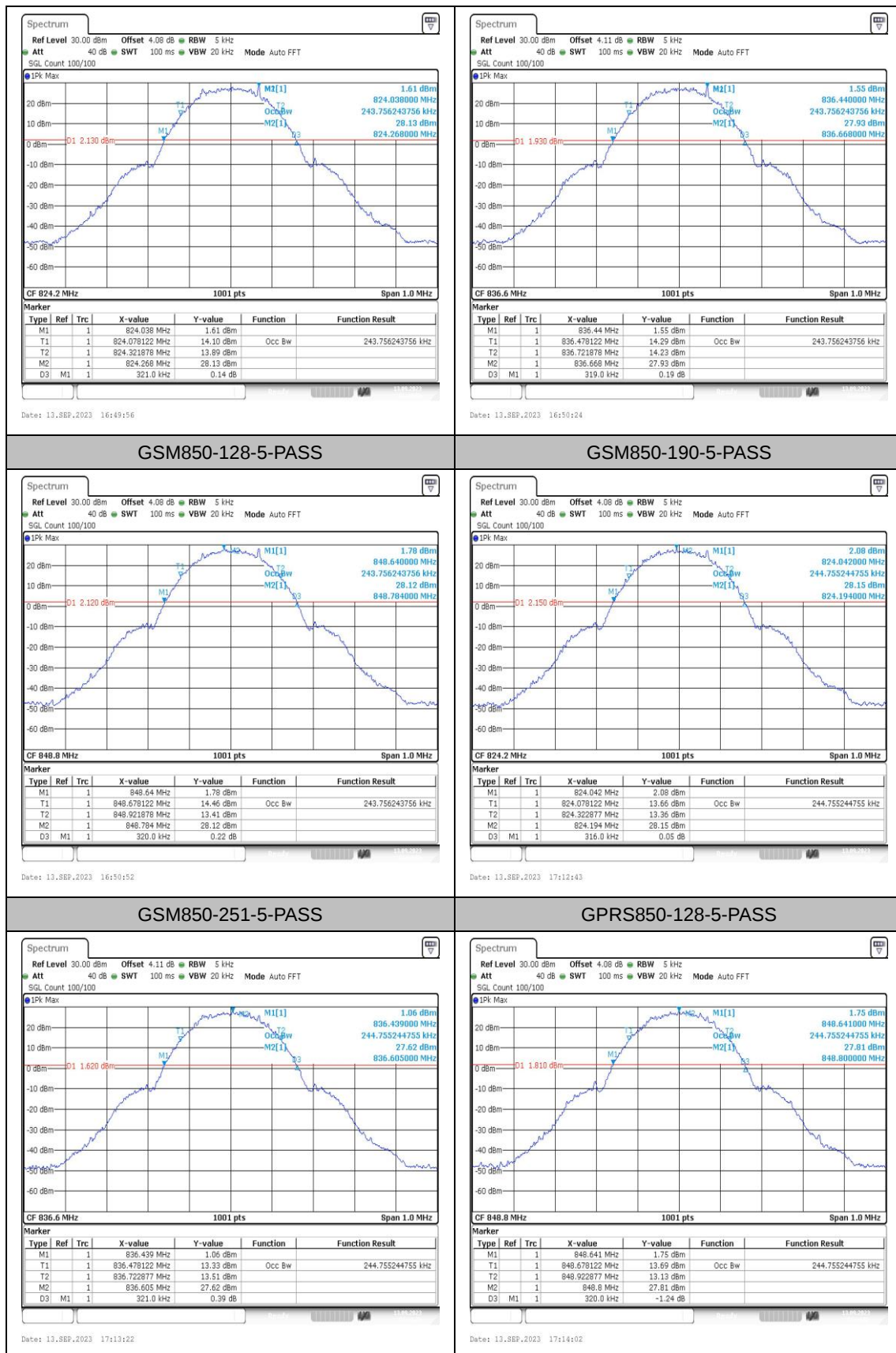


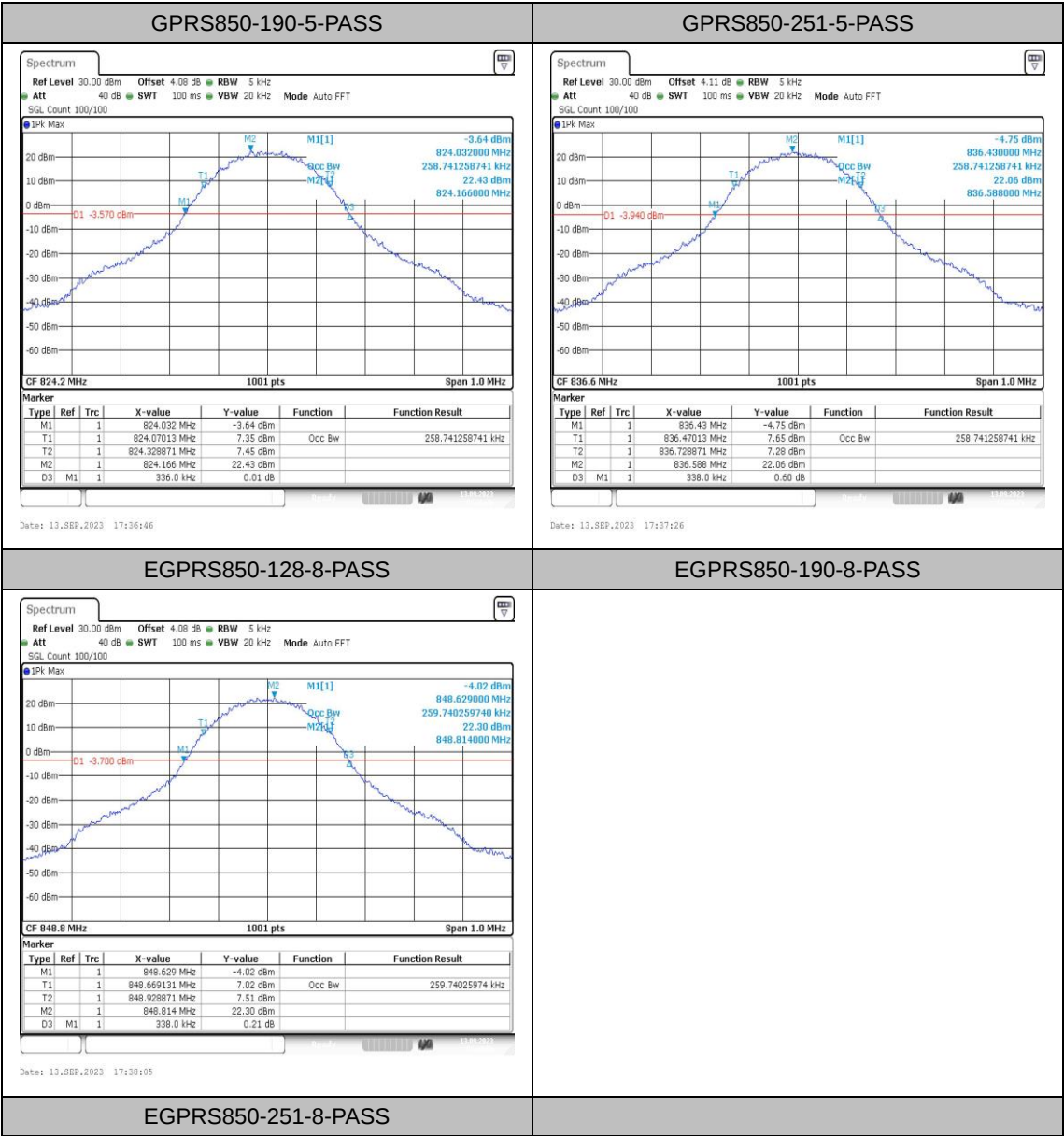
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.244	0.32	---	PASS
GSM850	190	0.244	0.32	---	PASS
GSM850	251	0.244	0.32	---	PASS
GPRS850	128	0.245	0.32	---	PASS
GPRS850	190	0.245	0.32	---	PASS
GPRS850	251	0.245	0.32	---	PASS
EGPRS850	128	0.259	0.34	---	PASS
EGPRS850	190	0.259	0.34	---	PASS
EGPRS850	251	0.26	0.34	---	PASS

Test Graphs



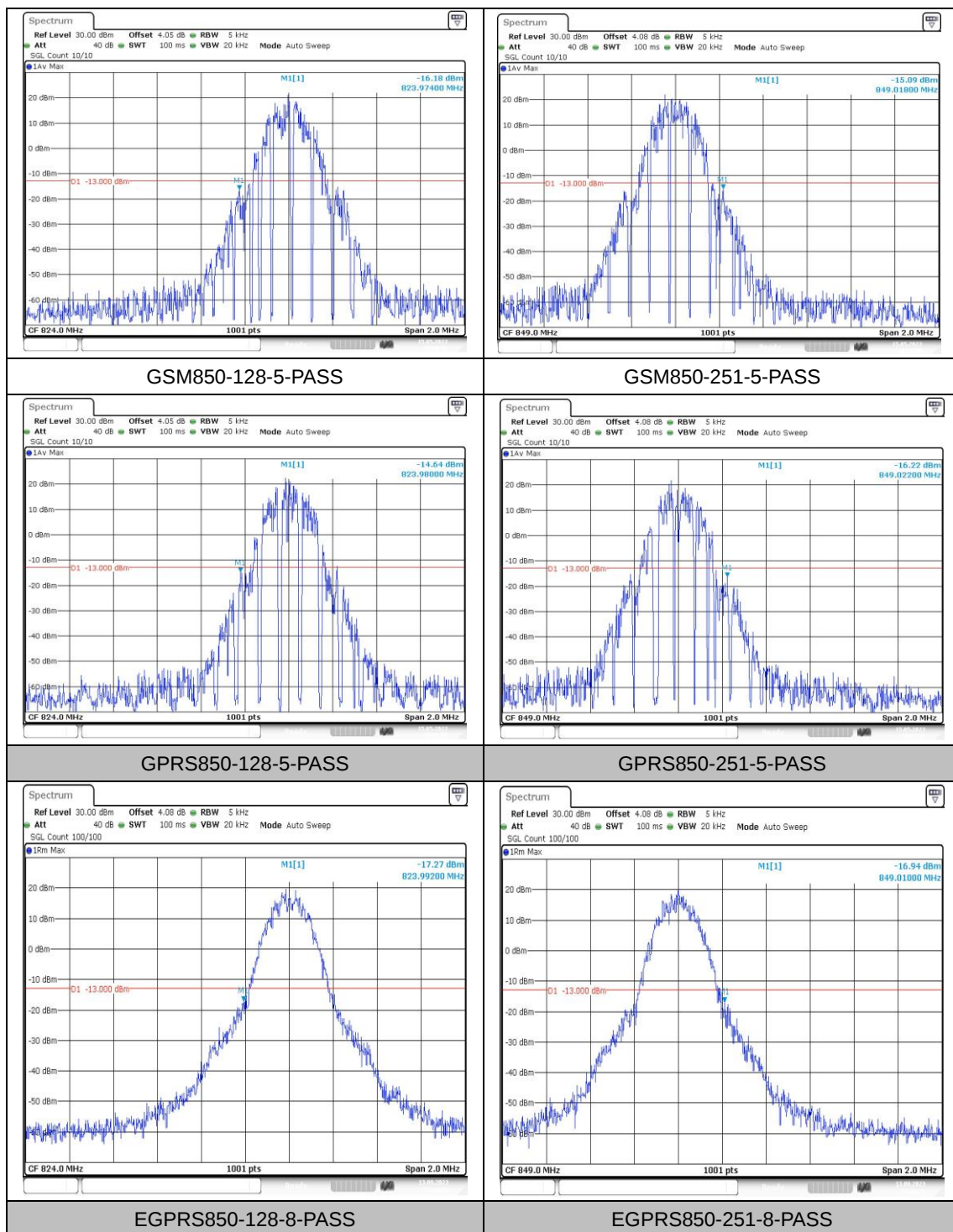


Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Limit(dBm)	Verdict
GSM850	128	823.97	-13	PASS
GSM850	251	849.02	-13	PASS
GPRS850	128	823.98	-13	PASS
GPRS850	251	849.02	-13	PASS
EGPRS850	128	823.98	-13	PASS
EGPRS850	251	849.03	-13	PASS

Test Graphs



Appendix E: Conducted Spurious Emission

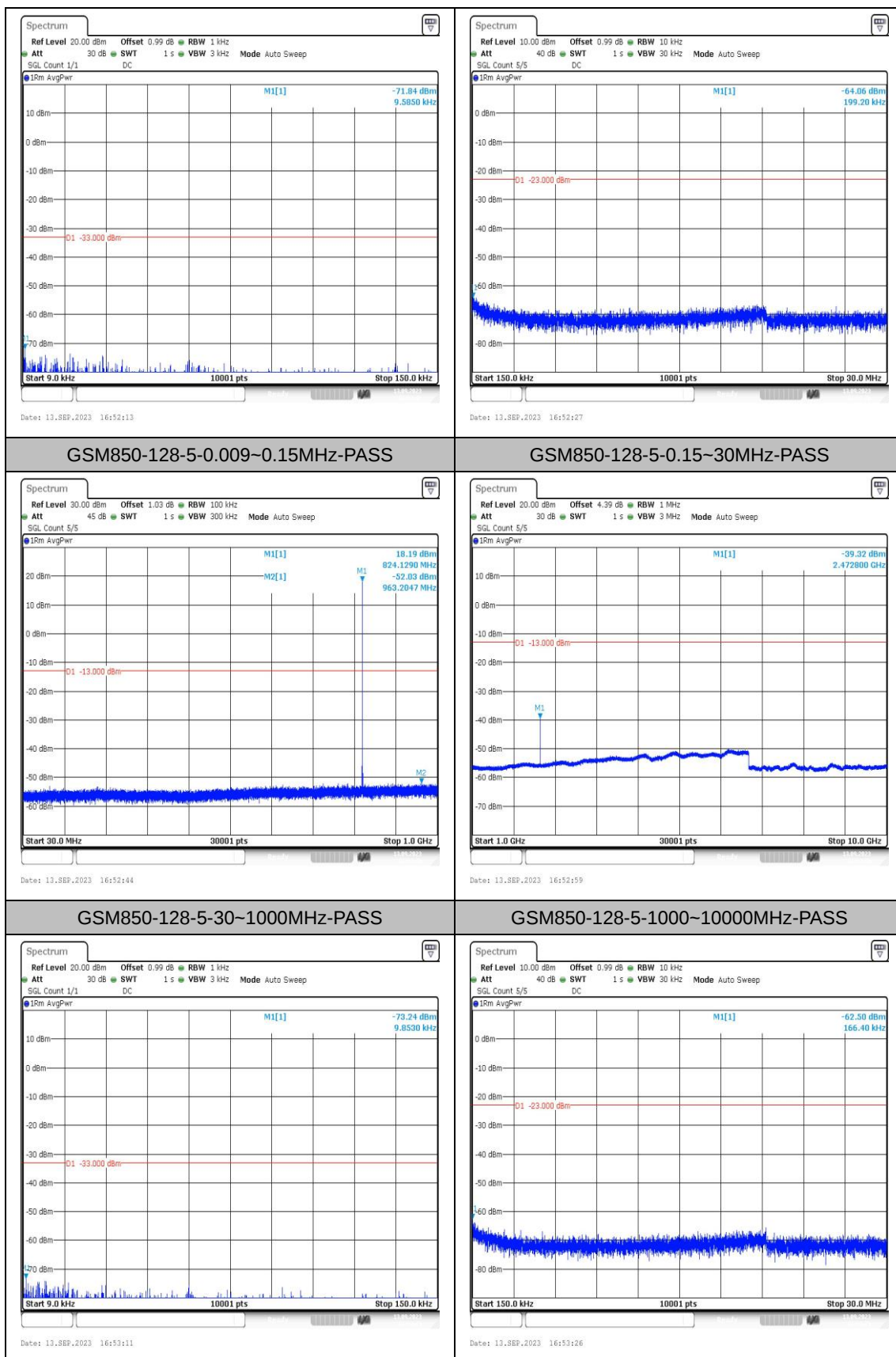
Test Result

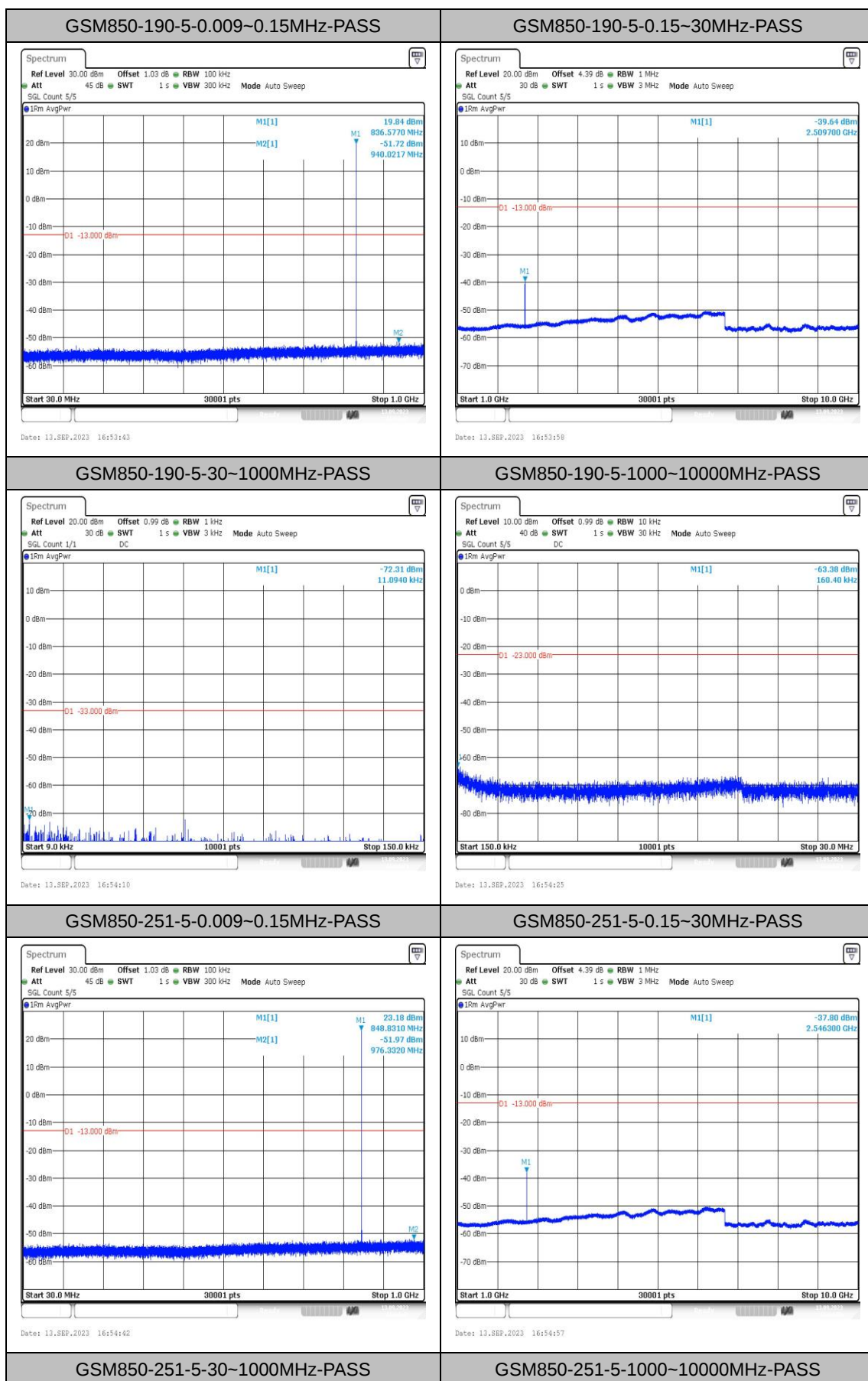
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-71.84	-33	PASS
GSM850	128	0.15~30MHz	0.2	-64.06	-23	PASS
GSM850	128	30~1000MHz	963.2	-52.03	-13	PASS
GSM850	128	1000~10000MHz	2472.8	-39.32	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-73.24	-33	PASS
GSM850	190	0.15~30MHz	0.17	-62.5	-23	PASS
GSM850	190	30~1000MHz	940.02	-51.72	-13	PASS
GSM850	190	1000~10000MHz	2509.7	-39.64	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-72.31	-33	PASS
GSM850	251	0.15~30MHz	0.16	-63.38	-23	PASS
GSM850	251	30~1000MHz	976.33	-51.97	-13	PASS
GSM850	251	1000~10000MHz	2546.3	-37.8	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-74	-33	PASS
GPRS850	128	0.15~30MHz	0.24	-63.7	-23	PASS
GPRS850	128	30~1000MHz	959.39	-51.99	-13	PASS
GPRS850	128	1000~10000MHz	6623.16	-50.33	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-74.86	-33	PASS
GPRS850	190	0.15~30MHz	0.18	-63.33	-23	PASS
GPRS850	190	30~1000MHz	973.45	-51.84	-13	PASS
GPRS850	190	1000~10000MHz	6657.06	-50.36	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-72.54	-33	PASS
GPRS850	251	0.15~30MHz	0.16	-62.89	-23	PASS
GPRS850	251	30~1000MHz	627.2	-52.21	-13	PASS
GPRS850	251	1000~10000MHz	2546.3	-35.03	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.03	-73.71	-33	PASS
EGPRS850	128	0.15~30MHz	0.16	-63.7	-23	PASS
EGPRS850	128	30~1000MHz	999.58	-51.23	-13	PASS
EGPRS850	128	1000~10000MHz	6540.67	-50.3	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.02	-73.65	-33	PASS
EGPRS850	190	0.15~30MHz	0.18	-64.17	-23	PASS
EGPRS850	190	30~1000MHz	998.51	-51.68	-13	PASS
EGPRS850	190	1000~10000MHz	1673.33	-45.96	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-73.48	-33	PASS
EGPRS850	251	0.15~30MHz	0.18	-63.28	-23	PASS
EGPRS850	251	30~1000MHz	976.62	-51.81	-13	PASS
EGPRS850	251	1000~10000MHz	1697.33	-44.25	-13	PASS

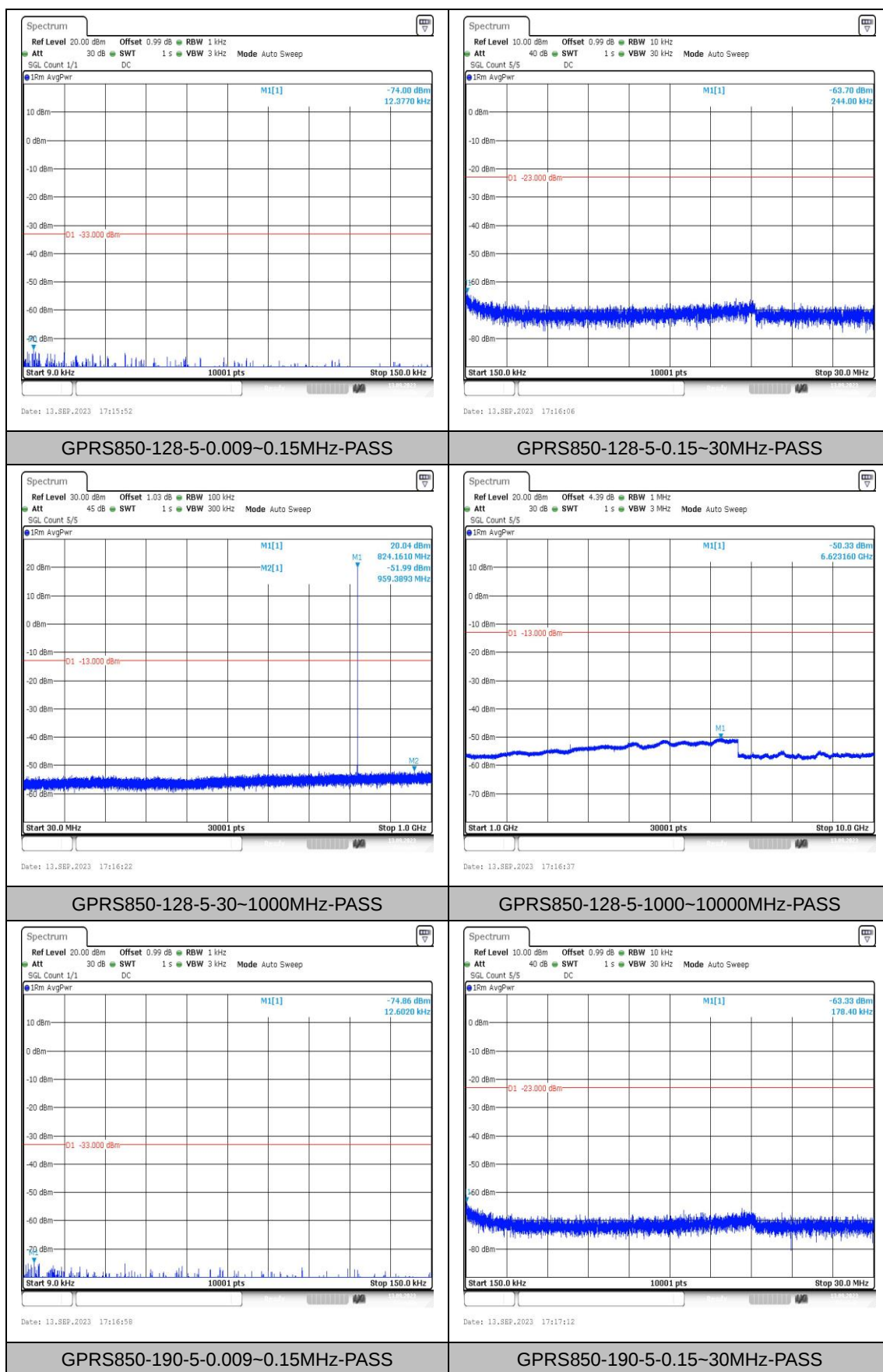
Waltek Testing Group (Shenzhen) Co., Ltd.

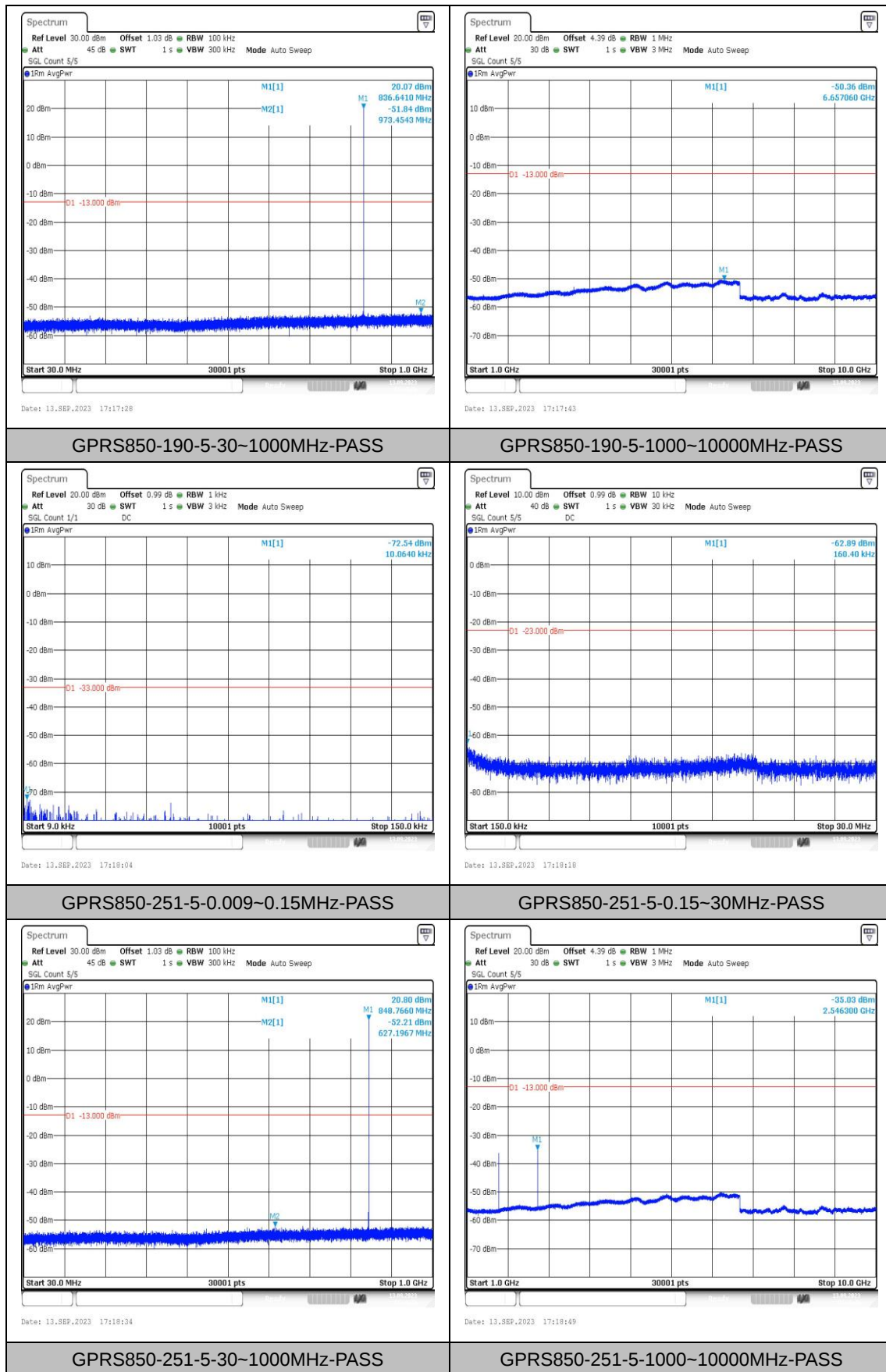
<http://www.waltek.com.cn>

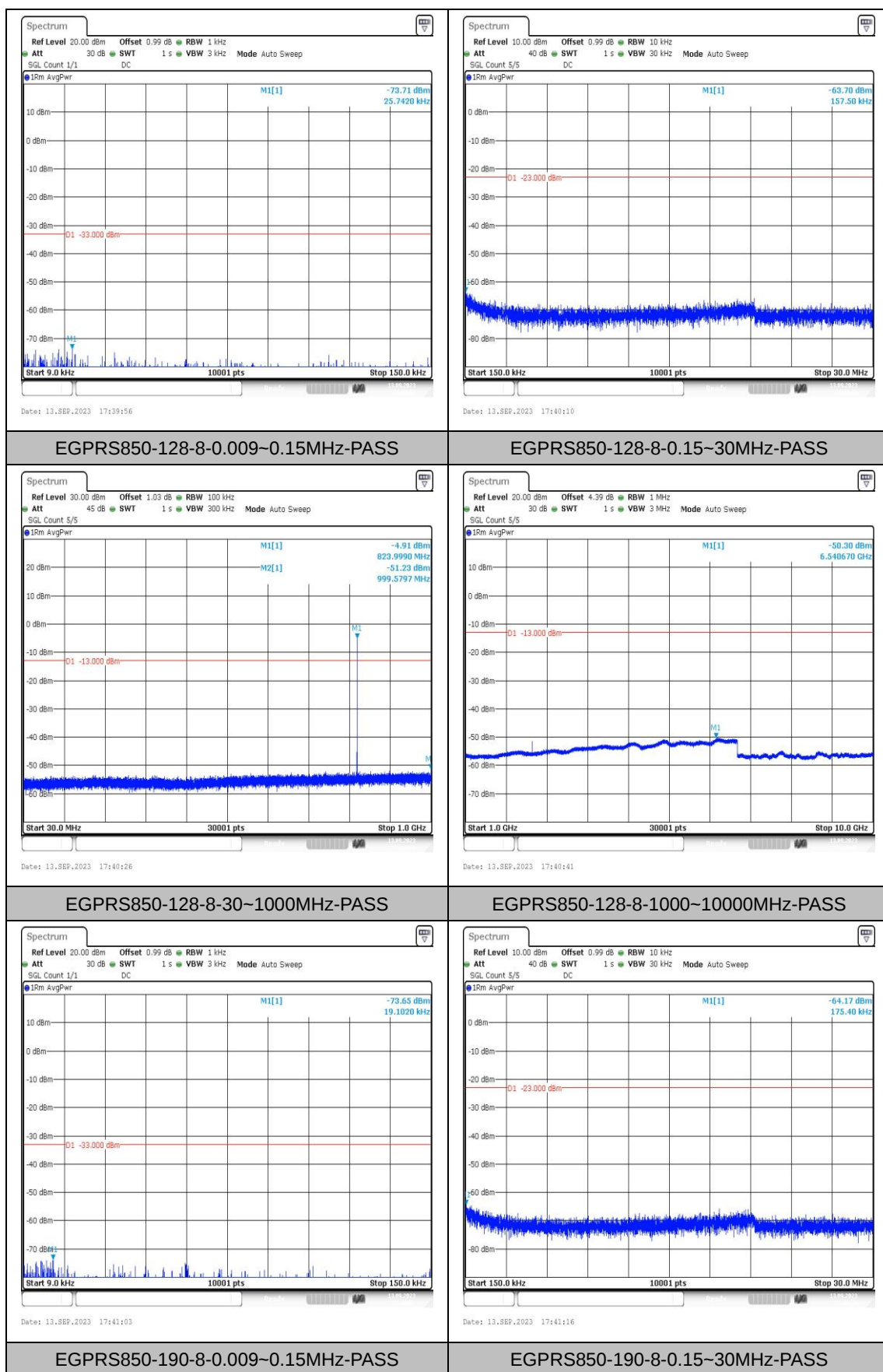
Test Graphs

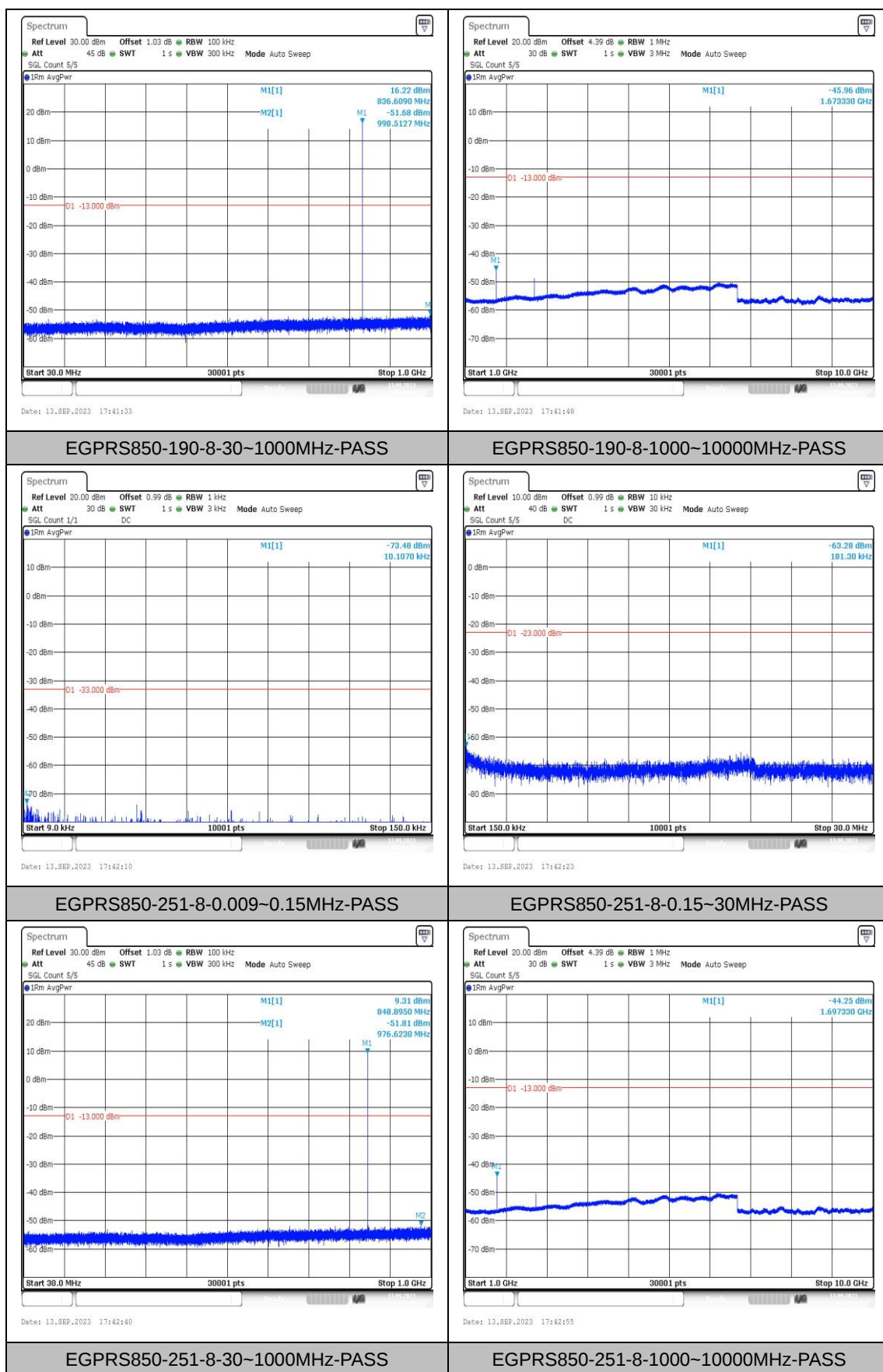












Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	7.72	0.009367	±2.5	PASS
GSM850	128	VL	NT	9.14	0.011090	±2.5	PASS
GSM850	128	VH	NT	5.36	0.006503	±2.5	PASS
GSM850	190	VN	NT	9.98	0.011929	±2.5	PASS
GSM850	190	VL	NT	9.10	0.010877	±2.5	PASS
GSM850	190	VH	NT	11.82	0.014129	±2.5	PASS
GSM850	251	VN	NT	7.55	0.008895	±2.5	PASS
GSM850	251	VL	NT	9.59	0.011298	±2.5	PASS
GSM850	251	VH	NT	7.81	0.009201	±2.5	PASS
GPRS850	128	VN	NT	6.59	0.007996	±2.5	PASS
GPRS850	128	VL	NT	6.04	0.007328	±2.5	PASS
GPRS850	128	VH	NT	8.43	0.010228	±2.5	PASS
GPRS850	190	VN	NT	7.88	0.009419	±2.5	PASS
GPRS850	190	VL	NT	4.23	0.005056	±2.5	PASS
GPRS850	190	VH	NT	9.88	0.011810	±2.5	PASS
GPRS850	251	VN	NT	5.42	0.006385	±2.5	PASS
GPRS850	251	VL	NT	6.42	0.007564	±2.5	PASS
GPRS850	251	VH	NT	7.23	0.008518	±2.5	PASS
EGPRS850	128	VN	NT	6.65	0.008068	±2.5	PASS
EGPRS850	128	VL	NT	4.10	0.004975	±2.5	PASS
EGPRS850	128	VH	NT	3.00	0.003640	±2.5	PASS
EGPRS850	190	VN	NT	1.29	0.001542	±2.5	PASS
EGPRS850	190	VL	NT	1.00	0.001195	±2.5	PASS
EGPRS850	190	VH	NT	2.68	0.003203	±2.5	PASS
EGPRS850	251	VN	NT	5.29	0.006232	±2.5	PASS
EGPRS850	251	VL	NT	5.68	0.006692	±2.5	PASS
EGPRS850	251	VH	NT	1.87	0.002203	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	3.84	0.004659	±2.5	PASS
GSM850	128	NV	-20	0.16	0.000194	±2.5	PASS

Waltek Testing Group (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

GSM850	128	NV	-10	1.10	0.001335	±2.5	PASS
GSM850	128	NV	0	1.58	0.001917	±2.5	PASS
GSM850	128	NV	10	2.68	0.003252	±2.5	PASS
GSM850	128	NV	20	0.94	0.001140	±2.5	PASS
GSM850	128	NV	30	4.88	0.005921	±2.5	PASS
GSM850	128	NV	40	3.16	0.003834	±2.5	PASS
GSM850	128	NV	50	2.81	0.003409	±2.5	PASS
GSM850	190	NV	-30	9.78	0.011690	±2.5	PASS
GSM850	190	NV	-20	2.65	0.003168	±2.5	PASS
GSM850	190	NV	-10	4.20	0.005020	±2.5	PASS
GSM850	190	NV	0	2.94	0.003514	±2.5	PASS
GSM850	190	NV	10	3.29	0.003933	±2.5	PASS
GSM850	190	NV	20	4.58	0.005475	±2.5	PASS
GSM850	190	NV	30	3.68	0.004399	±2.5	PASS
GSM850	190	NV	40	5.00	0.005977	±2.5	PASS
GSM850	190	NV	50	3.81	0.004554	±2.5	PASS
GSM850	251	NV	-30	6.49	0.007646	±2.5	PASS
GSM850	251	NV	-20	2.07	0.002439	±2.5	PASS
GSM850	251	NV	-10	1.84	0.002168	±2.5	PASS
GSM850	251	NV	0	3.29	0.003876	±2.5	PASS
GSM850	251	NV	10	2.97	0.003499	±2.5	PASS
GSM850	251	NV	20	2.74	0.003228	±2.5	PASS
GSM850	251	NV	30	3.75	0.004418	±2.5	PASS
GSM850	251	NV	40	4.10	0.004830	±2.5	PASS
GSM850	251	NV	50	3.33	0.003923	±2.5	PASS
GPRS850	128	NV	-30	7.68	0.009318	±2.5	PASS
GPRS850	128	NV	-20	7.81	0.009476	±2.5	PASS
GPRS850	128	NV	-10	14.66	0.017787	±2.5	PASS
GPRS850	128	NV	0	9.40	0.011405	±2.5	PASS
GPRS850	128	NV	10	12.82	0.015554	±2.5	PASS
GPRS850	128	NV	20	9.78	0.011866	±2.5	PASS
GPRS850	128	NV	30	11.59	0.014062	±2.5	PASS
GPRS850	128	NV	40	10.11	0.012266	±2.5	PASS
GPRS850	128	NV	50	11.07	0.013431	±2.5	PASS
GPRS850	190	NV	-30	6.78	0.008104	±2.5	PASS
GPRS850	190	NV	-20	7.91	0.009455	±2.5	PASS
GPRS850	190	NV	-10	9.78	0.011690	±2.5	PASS
GPRS850	190	NV	0	6.97	0.008331	±2.5	PASS
GPRS850	190	NV	10	10.30	0.012312	±2.5	PASS
GPRS850	190	NV	20	7.14	0.008535	±2.5	PASS
GPRS850	190	NV	30	11.04	0.013196	±2.5	PASS

GPRS850	190	NV	40	7.55	0.009025	±2.5	PASS
GPRS850	190	NV	50	11.66	0.013937	±2.5	PASS
GPRS850	251	NV	-30	10.75	0.012665	±2.5	PASS
GPRS850	251	NV	-20	9.17	0.010803	±2.5	PASS
GPRS850	251	NV	-10	5.68	0.006692	±2.5	PASS
GPRS850	251	NV	0	0.84	0.000990	±2.5	PASS
GPRS850	251	NV	10	3.68	0.004336	±2.5	PASS
GPRS850	251	NV	20	4.20	0.004948	±2.5	PASS
GPRS850	251	NV	30	6.65	0.007835	±2.5	PASS
GPRS850	251	NV	40	5.59	0.006586	±2.5	PASS
GPRS850	251	NV	50	7.46	0.008789	±2.5	PASS
EGPRS850	128	NV	-30	0.03	0.000036	±2.5	PASS
EGPRS850	128	NV	-20	6.72	0.008153	±2.5	PASS
EGPRS850	128	NV	-10	6.33	0.007680	±2.5	PASS
EGPRS850	128	NV	0	5.29	0.006418	±2.5	PASS
EGPRS850	128	NV	10	5.10	0.006188	±2.5	PASS
EGPRS850	128	NV	20	5.49	0.006661	±2.5	PASS
EGPRS850	128	NV	30	5.00	0.006066	±2.5	PASS
EGPRS850	128	NV	40	8.88	0.010774	±2.5	PASS
EGPRS850	128	NV	50	5.13	0.006224	±2.5	PASS
EGPRS850	190	NV	-30	2.58	0.003084	±2.5	PASS
EGPRS850	190	NV	-20	-0.39	-0.000466	±2.5	PASS
EGPRS850	190	NV	-10	8.85	0.010579	±2.5	PASS
EGPRS850	190	NV	0	6.91	0.008260	±2.5	PASS
EGPRS850	190	NV	10	7.94	0.009491	±2.5	PASS
EGPRS850	190	NV	20	5.62	0.006718	±2.5	PASS
EGPRS850	190	NV	30	5.78	0.006909	±2.5	PASS
EGPRS850	190	NV	40	5.55	0.006634	±2.5	PASS
EGPRS850	190	NV	50	5.39	0.006443	±2.5	PASS
EGPRS850	251	NV	-30	-0.87	-0.001025	±2.5	PASS
EGPRS850	251	NV	-20	-5.81	-0.006845	±2.5	PASS
EGPRS850	251	NV	-10	-0.26	-0.000306	±2.5	PASS
EGPRS850	251	NV	0	3.33	0.003923	±2.5	PASS
EGPRS850	251	NV	10	3.33	0.003923	±2.5	PASS
EGPRS850	251	NV	20	0.68	0.000801	±2.5	PASS
EGPRS850	251	NV	30	2.81	0.003311	±2.5	PASS
EGPRS850	251	NV	40	1.94	0.002286	±2.5	PASS
EGPRS850	251	NV	50	4.46	0.005254	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM850	128	PASS	PASS
GSM850	190	PASS	PASS
GSM850	251	PASS	PASS
GPRS850	128	PASS	PASS
GPRS850	190	PASS	PASS
GPRS850	251	PASS	PASS
EGPRS850	128	PASS	PASS
EGPRS850	190	PASS	PASS
EGPRS850	251	PASS	PASS

Test Graphs

