

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GSM850	128	5	32.58	23.54	38.45	PASS
GSM850	190	5	32.62	23.58	38.45	PASS
GSM850	251	5	32.59	23.55	38.45	PASS
GSM1900	512	0	29.38	26.58	33.00	PASS
GSM1900	661	0	29.24	26.44	33.00	PASS
GSM1900	810	0	29.03	26.23	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.54	23.5	38.45	PASS
GPRS850	128	5	2	31.73	22.69	38.45	PASS
GPRS850	128	5	3	30.12	21.08	38.45	PASS
GPRS850	128	5	4	28.96	19.92	38.45	PASS
GPRS850	190	5	1	32.57	23.53	38.45	PASS
GPRS850	190	5	2	31.79	22.75	38.45	PASS
GPRS850	190	5	3	30.19	21.15	38.45	PASS
GPRS850	190	5	4	29.01	19.97	38.45	PASS
GPRS850	251	5	1	32.55	23.51	38.45	PASS
GPRS850	251	5	2	31.85	22.81	38.45	PASS
GPRS850	251	5	3	30.21	21.17	38.45	PASS
GPRS850	251	5	4	28.99	19.95	38.45	PASS
GPRS1900	512	0	1	29.30	26.5	33.00	PASS
GPRS1900	512	0	2	28.34	25.54	33.00	PASS
GPRS1900	512	0	3	25.95	23.15	33.00	PASS
GPRS1900	512	0	4	24.69	21.89	33.00	PASS
GPRS1900	661	0	1	29.25	26.45	33.00	PASS
GPRS1900	661	0	2	28.39	25.59	33.00	PASS
GPRS1900	661	0	3	26.15	23.35	33.00	PASS
GPRS1900	661	0	4	24.92	22.12	33.00	PASS
GPRS1900	810	0	1	29.04	26.24	33.00	PASS
GPRS1900	810	0	2	28.32	25.52	33.00	PASS
GPRS1900	810	0	3	26.30	23.5	33.00	PASS
GPRS1900	810	0	4	25.12	22.32	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.23	18.19	38.45	PASS
EGPRS850	128	8	2	27.18	18.14	38.45	PASS
EGPRS850	128	8	3	27.09	18.05	38.45	PASS
EGPRS850	128	8	4	27.01	17.97	38.45	PASS
EGPRS850	190	8	1	27.35	18.31	38.45	PASS
EGPRS850	190	8	2	27.29	18.25	38.45	PASS
EGPRS850	190	8	3	27.20	18.16	38.45	PASS
EGPRS850	190	8	4	27.11	18.07	38.45	PASS
EGPRS850	251	8	1	27.34	18.3	38.45	PASS
EGPRS850	251	8	2	27.28	18.24	38.45	PASS
EGPRS850	251	8	3	27.18	18.14	38.45	PASS
EGPRS850	251	8	4	27.10	18.06	38.45	PASS
EGPRS1900	512	2	1	24.97	22.17	33.00	PASS
EGPRS1900	512	2	2	24.88	22.08	33.00	PASS
EGPRS1900	512	2	3	24.79	21.99	33.00	PASS
EGPRS1900	512	2	4	24.71	21.91	33.00	PASS
EGPRS1900	661	2	1	25.18	22.38	33.00	PASS
EGPRS1900	661	2	2	25.12	22.32	33.00	PASS
EGPRS1900	661	2	3	25.02	22.22	33.00	PASS
EGPRS1900	661	2	4	24.94	22.14	33.00	PASS
EGPRS1900	810	2	1	25.39	22.59	33.00	PASS
EGPRS1900	810	2	2	25.31	22.51	33.00	PASS
EGPRS1900	810	2	3	25.21	22.41	33.00	PASS
EGPRS1900	810	2	4	25.12	22.32	33.00	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For GSM850)

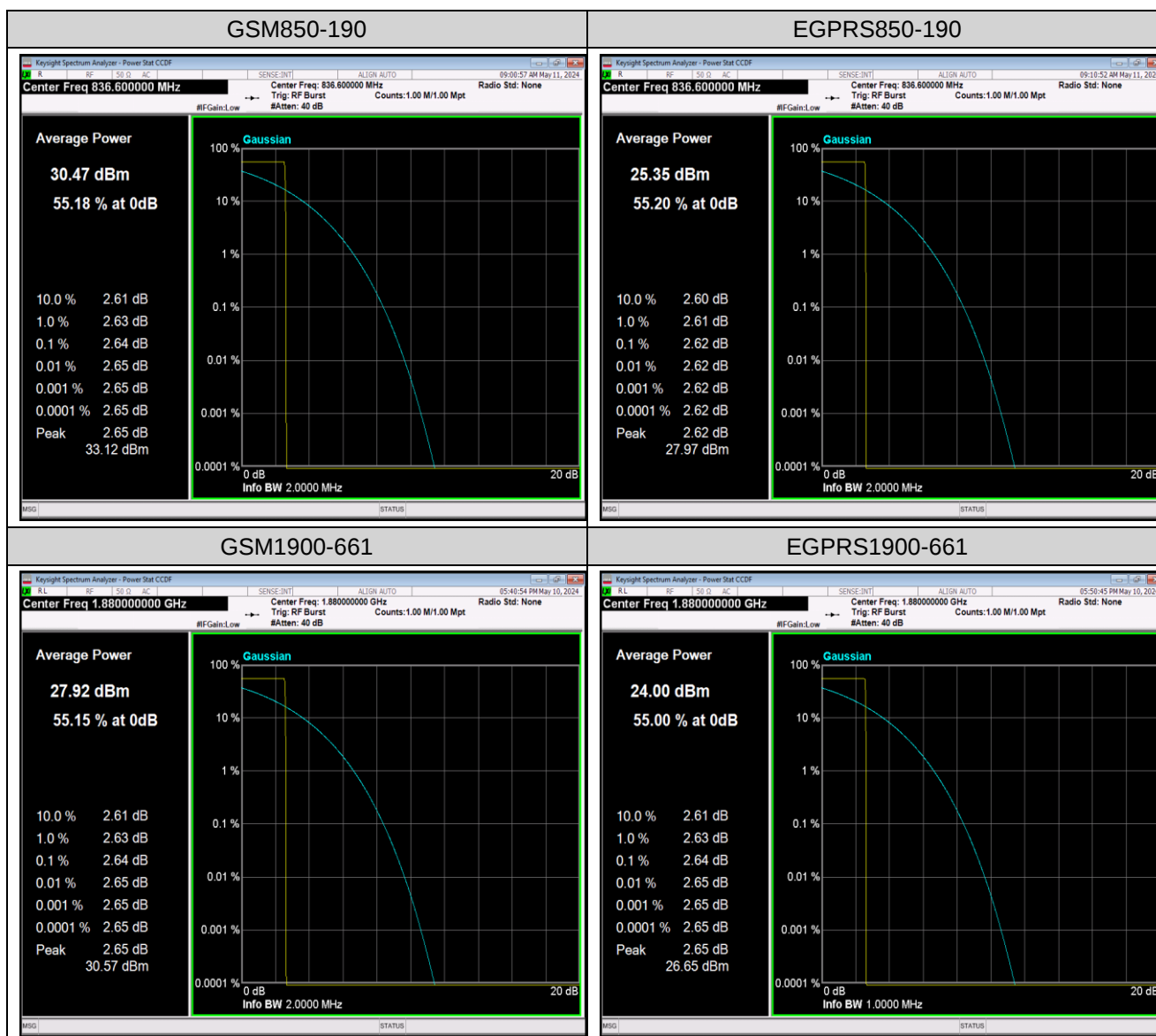
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.64	13	PASS
EGPRS850	190	8	2.62	13	PASS
GSM1900	661	0	2.64	13	PASS
EGPRS1900	661	2	2.64	13	PASS

Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

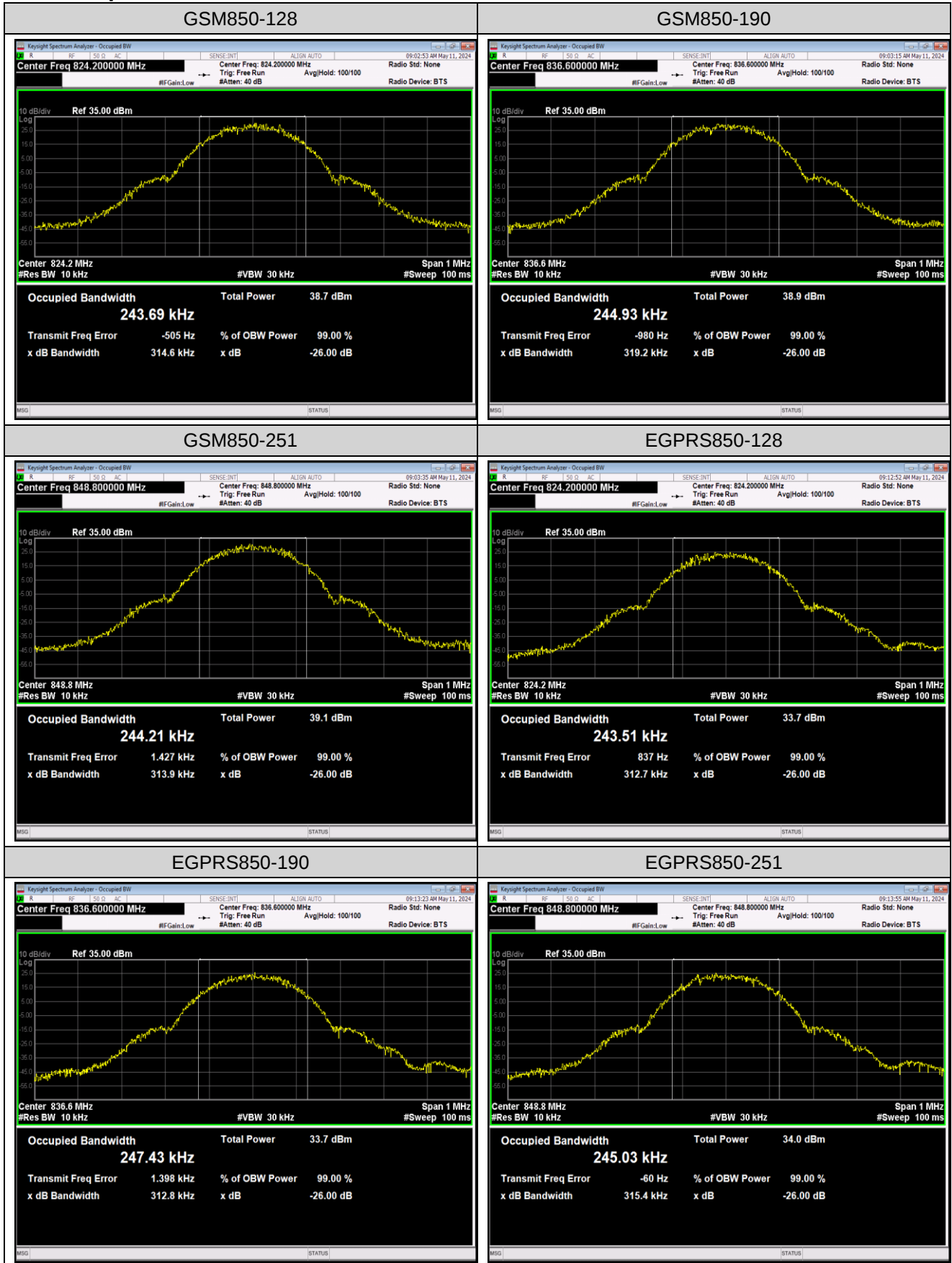


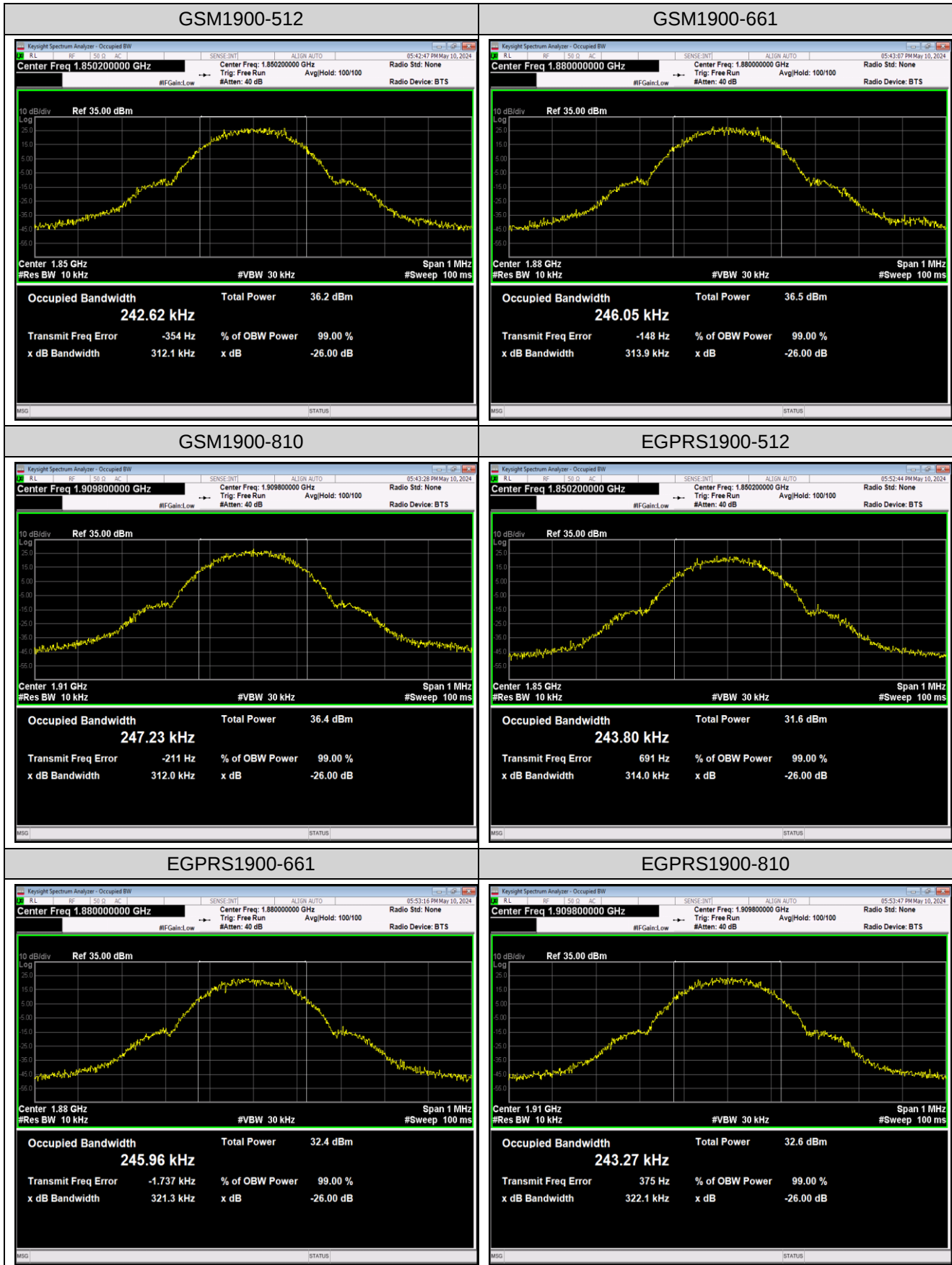
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24369	0.3146	---	PASS
GSM850	190	5	0.24493	0.3192	---	PASS
GSM850	251	5	0.24421	0.3139	---	PASS
EGPRS850	128	8	0.24351	0.3127	---	PASS
EGPRS850	190	8	0.24743	0.3128	---	PASS
EGPRS850	251	8	0.24503	0.3154	---	PASS
GSM1900	512	0	0.24262	0.3121	---	PASS
GSM1900	661	0	0.24605	0.3139	---	PASS
GSM1900	810	0	0.24723	0.3120	---	PASS
EGPRS1900	512	2	0.24380	0.3140	---	PASS
EGPRS1900	661	2	0.24596	0.3213	---	PASS
EGPRS1900	810	2	0.24327	0.3221	---	PASS

Test Graphs



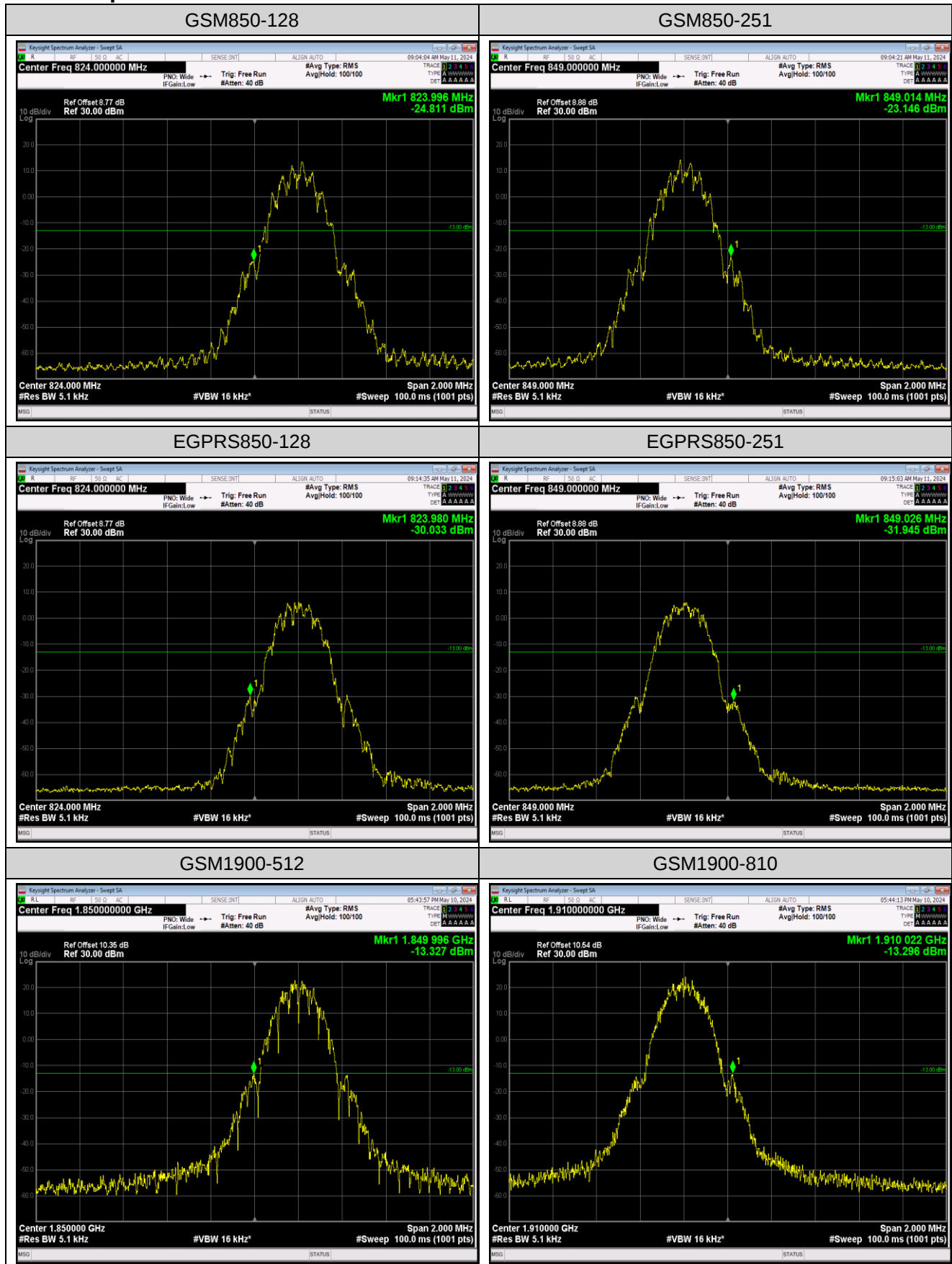


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-24.81	-13	PASS
GSM850	251	5	849.01	-23.15	-13	PASS
EGPRS850	128	8	823.98	-30.03	-13	PASS
EGPRS850	251	8	849.03	-31.95	-13	PASS
GSM1900	512	0	1850.00	-13.33	-13	PASS
GSM1900	810	0	1910.02	-13.30	-13	PASS
EGPRS1900	512	2	1849.99	-18.88	-13	PASS
EGPRS1900	810	2	1910.02	-17.97	-13	PASS

Test Graphs

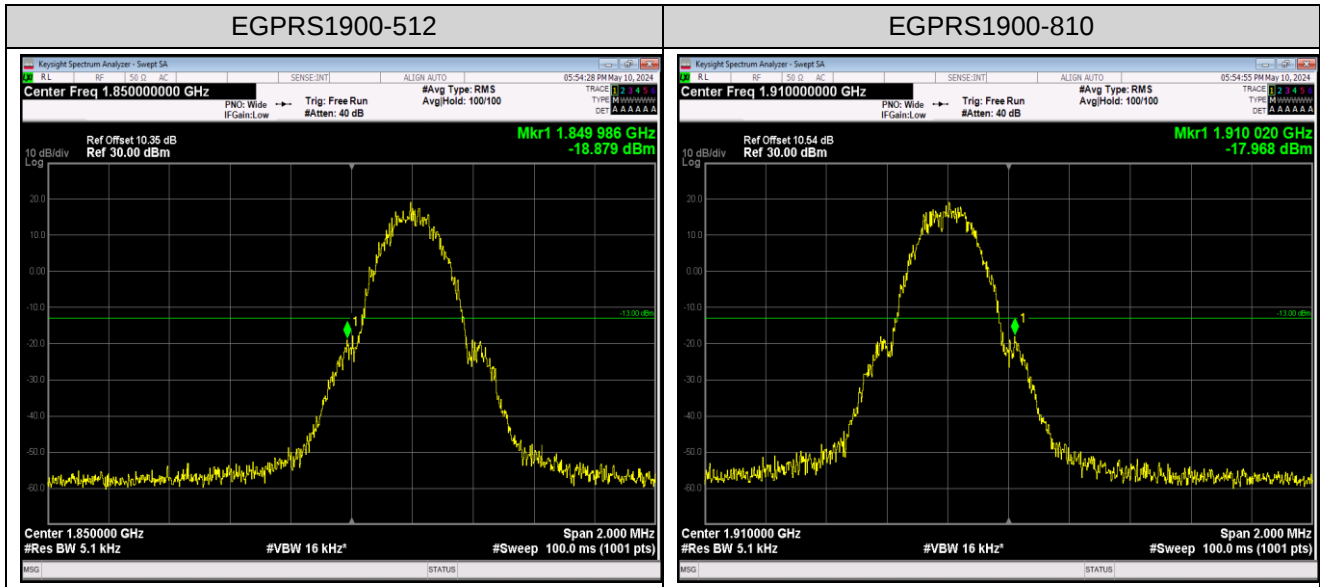


JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Project No.: JYTSZR2404034



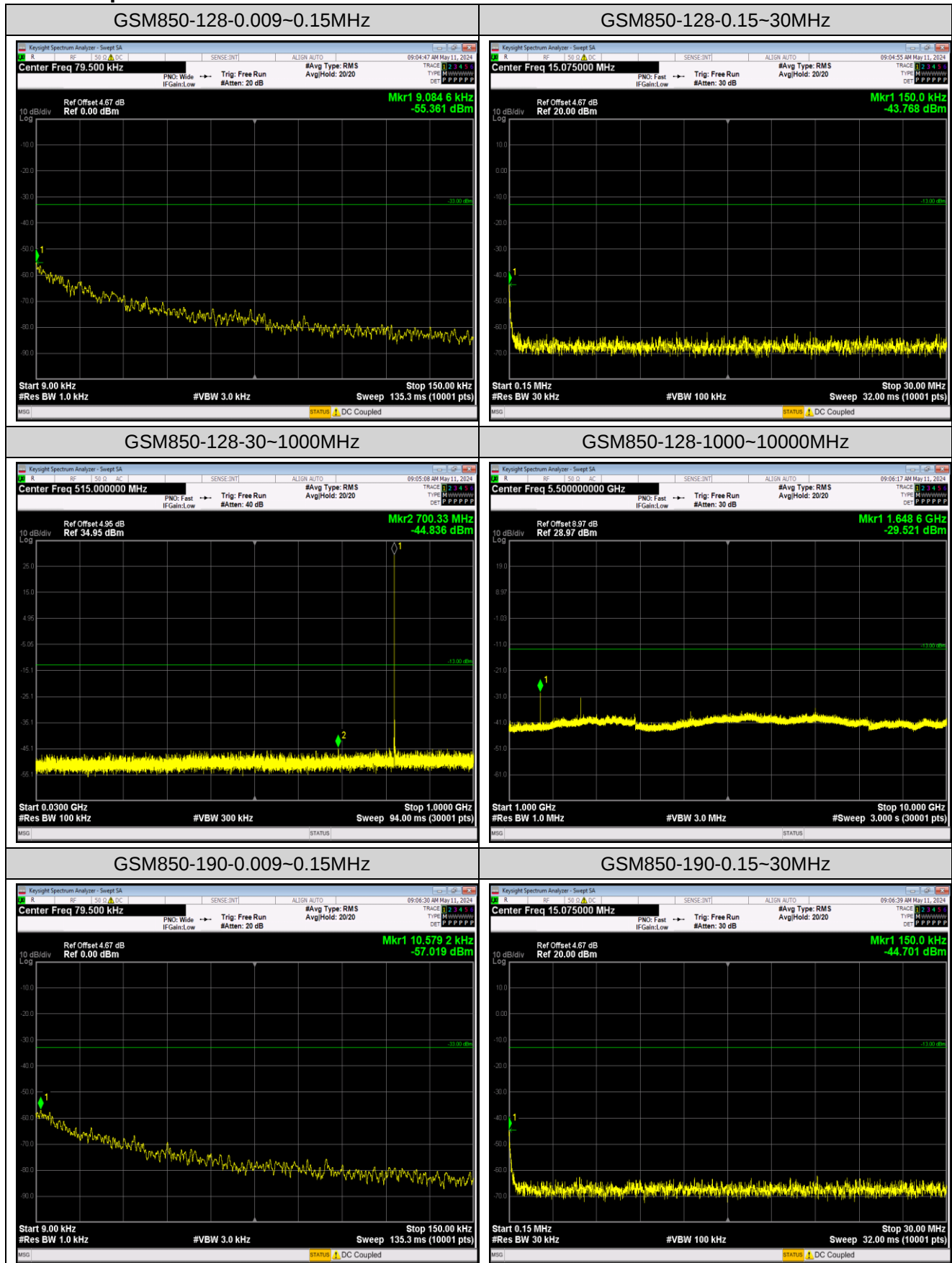
Appendix E: Conducted Spurious Emission

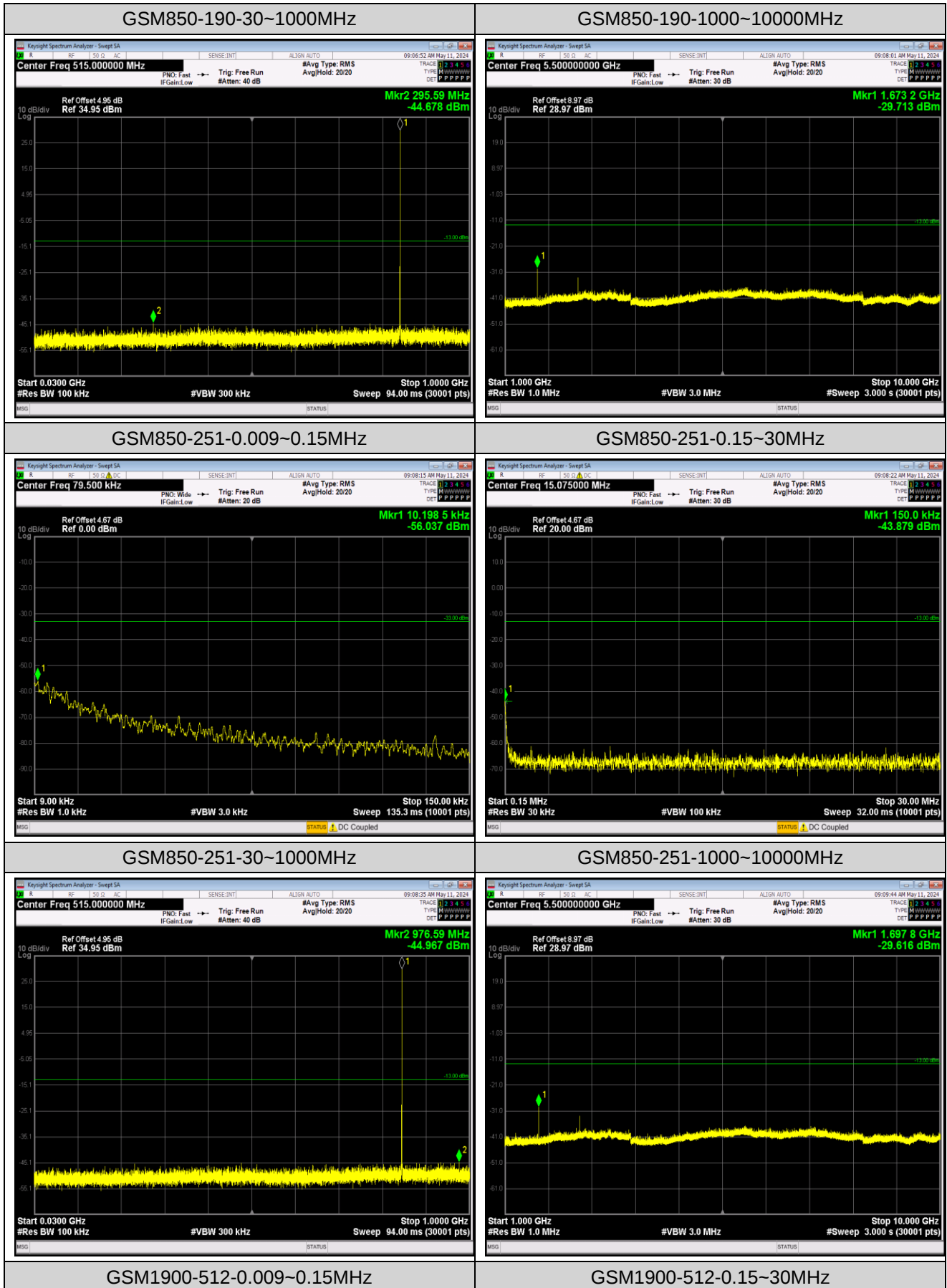
Test Result

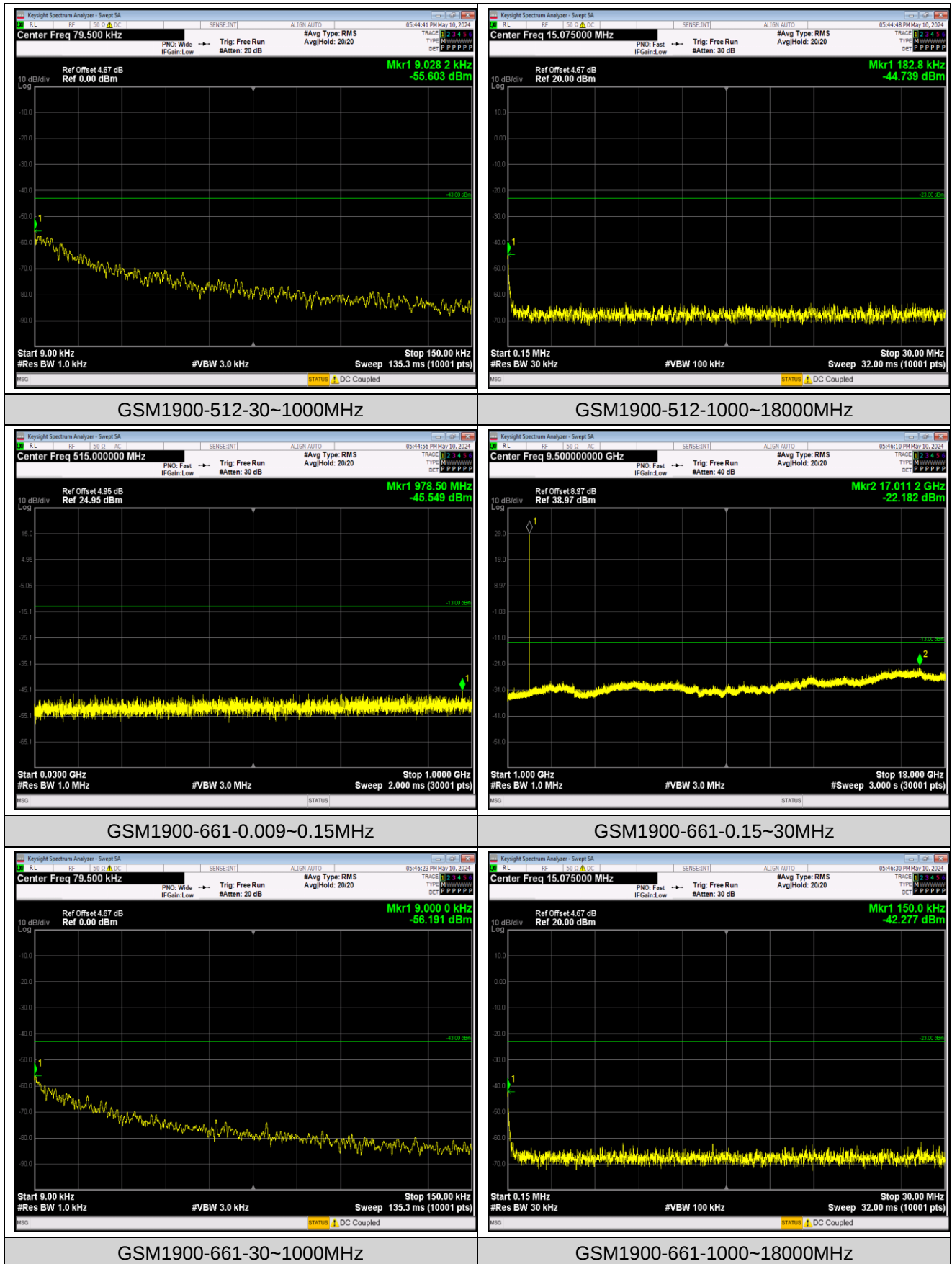
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.36	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-43.77	-13	PASS
GSM850	128	5	30~1000MHz	700.33	-44.84	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-29.52	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-57.02	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-44.7	-13	PASS
GSM850	190	5	30~1000MHz	295.59	-44.68	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-29.71	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-56.04	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-43.88	-13	PASS
GSM850	251	5	30~1000MHz	976.59	-44.97	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-29.62	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.6	-43	PASS
GSM1900	512	0	0.15~30MHz	0.18	-44.74	-23	PASS
GSM1900	512	0	30~1000MHz	978.5	-45.55	-13	PASS
GSM1900	512	0	1000~18000MHz	17011.17	-22.18	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.19	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.28	-23	PASS
GSM1900	661	0	30~1000MHz	749.58	-46.25	-13	PASS
GSM1900	661	0	1000~18000MHz	17006.63	-22.2	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.1	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-43.79	-23	PASS
GSM1900	810	0	30~1000MHz	914.64	-45.53	-13	PASS
GSM1900	810	0	1000~18000MHz	17006.07	-21.42	-13	PASS

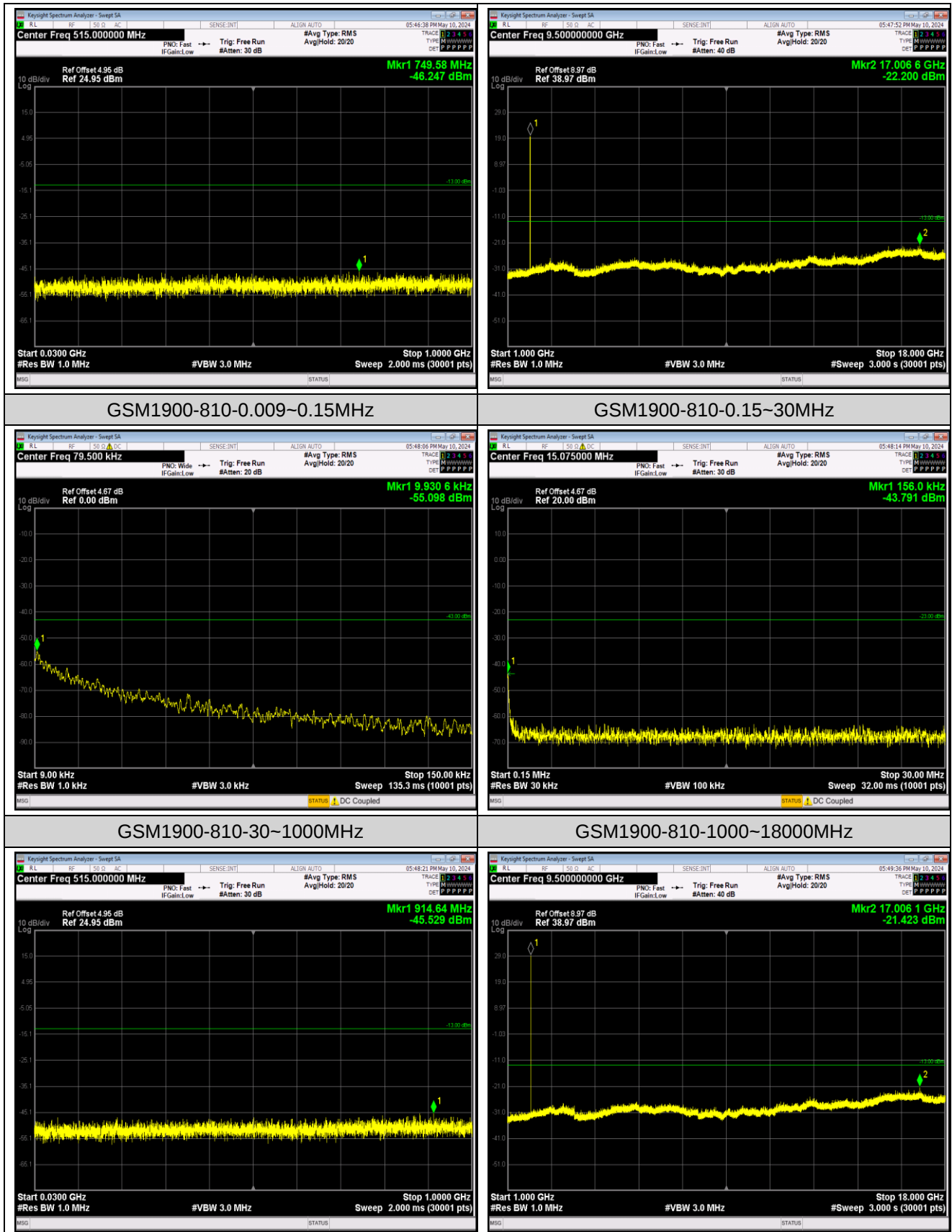
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.91	-30	-16.89	-0.020189	±2.5	Pass
	-20	-15.40	-0.018408		
	-10	-14.21	-0.016985		
	0	-15.27	-0.018252		
	10	-10.82	-0.012933		
	20	-11.91	-0.014236		
	30	-13.04	-0.015587		
	40	-16.01	-0.019137		
	50	-16.50	-0.019723		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-15.50	-0.018527	±2.5	Pass
	3.91	-16.72	-0.019986		
	4.50	-13.53	-0.016173		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: EGPRS850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.91	-30	-3.42	-0.004088	±2.5	Pass
	-20	-6.55	-0.007829		
	-10	-3.55	-0.004243		
	0	-6.97	-0.008331		
	10	-6.23	-0.007447		
	20	-6.17	-0.007375		
	30	-2.03	-0.002426		
	40	2.39	0.002857		
	50	-1.49	-0.001781		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-4.16	-0.004973	±2.5	Pass
	3.91	-5.04	-0.006024		
	4.50	-2.26	-0.002701		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: PCS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.91	-30	-18.34	-0.009755	Within authorized band for PCS 1900	Pass
	-20	-5.39	-0.002867		
	-10	-12.79	-0.006803		
	0	-9.36	-0.004979		
	10	-1.55	-0.000824		
	20	-8.52	-0.004532		
	30	-6.75	-0.003590		
	40	-0.77	-0.000410		
	50	-13.98	-0.007436		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-30.32	-0.016128	Within authorized band for PCS 1900	Pass
	3.91	-24.80	-0.013191		
	4.50	-20.73	-0.011027		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: EGPRS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.91	-30	-9.04	-0.004809	Within authorized band for PCS 1900	Pass
	-20	-6.52	-0.003468		
	-10	-4.62	-0.002457		
	0	-4.39	-0.002335		
	10	9.07	0.004824		
	20	15.43	0.008207		
	30	16.27	0.008654		
	40	5.00	0.002660		
	50	9.85	0.005239		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-6.75	-0.003590	Within authorized band for PCS 1900	Pass
	3.91	-2.78	-0.001479		
	4.50	-1.16	-0.000617		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
EGPRS850	190	PASS	PASS
GSM1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

