

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	33.97	26.82	38.45	PASS
GSM850	190	5	34.15	27	38.45	PASS
GSM850	251	5	34.36	27.21	38.45	PASS
GSM1900	512	0	29.91	29.91	33.00	PASS
GSM1900	661	0	30.52	30.52	33.00	PASS
GSM1900	810	0	30.35	30.35	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	34.00	26.85	38.45	PASS
GPRS850	128	5	2	31.13	23.98	38.45	PASS
GPRS850	128	5	3	28.97	21.82	38.45	PASS
GPRS850	128	5	4	26.70	19.55	38.45	PASS
GPRS850	190	5	1	34.17	27.02	38.45	PASS
GPRS850	190	5	2	31.24	24.09	38.45	PASS
GPRS850	190	5	3	29.09	21.94	38.45	PASS
GPRS850	190	5	4	26.84	19.69	38.45	PASS
GPRS850	251	5	1	34.40	27.25	38.45	PASS
GPRS850	251	5	2	31.23	24.08	38.45	PASS
GPRS850	251	5	3	29.05	21.9	38.45	PASS
GPRS850	251	5	4	26.81	19.66	38.45	PASS
GPRS1900	512	0	1	29.87	29.87	33.00	PASS
GPRS1900	512	0	2	27.80	27.8	33.00	PASS
GPRS1900	512	0	3	26.05	26.05	33.00	PASS
GPRS1900	512	0	4	23.97	23.97	33.00	PASS
GPRS1900	661	0	1	30.63	30.63	33.00	PASS
GPRS1900	661	0	2	28.02	28.02	33.00	PASS
GPRS1900	661	0	3	26.22	26.22	33.00	PASS
GPRS1900	661	0	4	24.15	24.15	33.00	PASS
GPRS1900	810	0	1	30.49	30.49	33.00	PASS
GPRS1900	810	0	2	27.84	27.84	33.00	PASS
GPRS1900	810	0	3	26.03	26.03	33.00	PASS
GPRS1900	810	0	4	23.95	23.95	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	25.99	18.84	38.45	PASS
EGPRS850	128	8	2	24.61	17.46	38.45	PASS
EGPRS850	128	8	3	22.42	15.27	38.45	PASS
EGPRS850	128	8	4	19.74	12.59	38.45	PASS
EGPRS850	190	8	1	26.44	19.29	38.45	PASS
EGPRS850	190	8	2	25.15	18	38.45	PASS
EGPRS850	190	8	3	22.79	15.64	38.45	PASS
EGPRS850	190	8	4	20.28	13.13	38.45	PASS
EGPRS850	251	8	1	25.98	18.83	38.45	PASS
EGPRS850	251	8	2	24.68	17.53	38.45	PASS
EGPRS850	251	8	3	22.43	15.28	38.45	PASS
EGPRS850	251	8	4	19.85	12.7	38.45	PASS
EGPRS1900	512	2	1	25.74	25.74	33.00	PASS
EGPRS1900	512	2	2	23.98	23.98	33.00	PASS
EGPRS1900	512	2	3	21.40	21.4	33.00	PASS
EGPRS1900	512	2	4	18.22	18.22	33.00	PASS
EGPRS1900	661	2	1	26.28	26.28	33.00	PASS
EGPRS1900	661	2	2	24.71	24.71	33.00	PASS
EGPRS1900	661	2	3	22.27	22.27	33.00	PASS
EGPRS1900	661	2	4	19.33	19.33	33.00	PASS
EGPRS1900	810	2	1	25.63	25.63	33.00	PASS
EGPRS1900	810	2	2	24.03	24.03	33.00	PASS
EGPRS1900	810	2	3	21.48	21.48	33.00	PASS
EGPRS1900	810	2	4	18.41	18.41	33.00	PASS

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

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

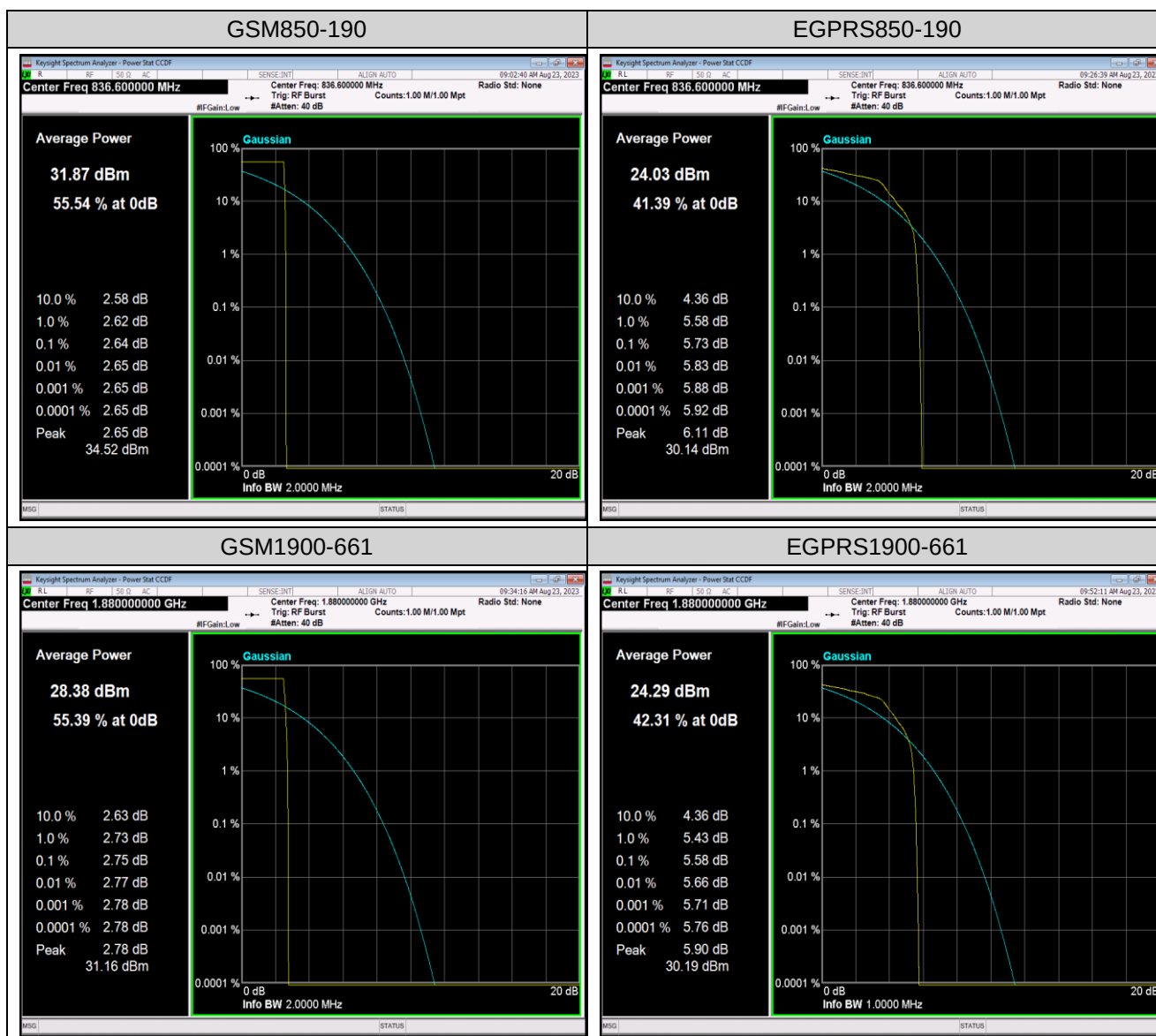
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.64	13	PASS
EGPRS850	190	8	5.73	13	PASS
GSM1900	661	0	2.75	13	PASS
EGPRS1900	661	2	5.58	13	PASS

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

Test Graphs

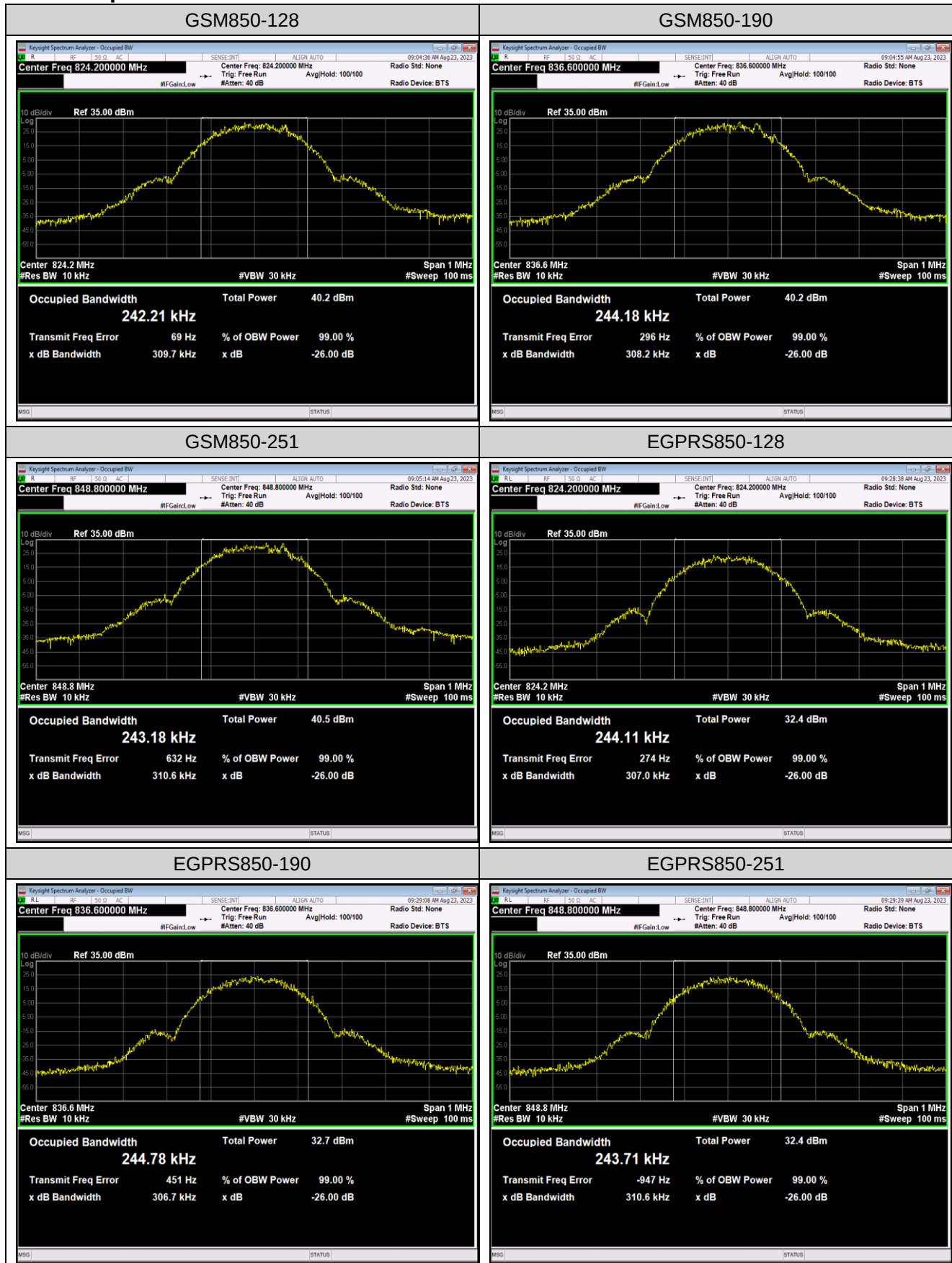


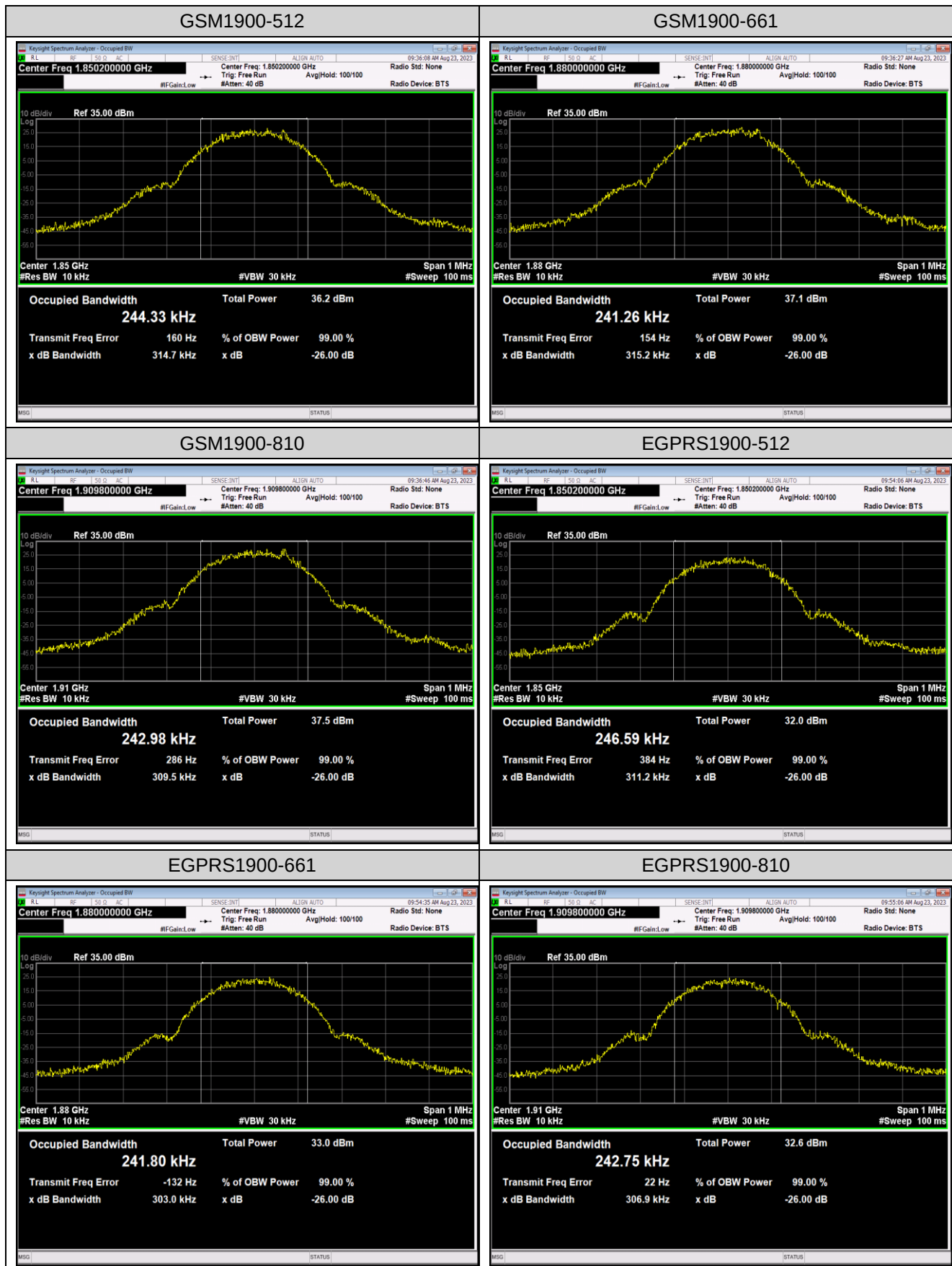
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24221	0.3097	---	PASS
GSM850	190	5	0.24418	0.3082	---	PASS
GSM850	251	5	0.24318	0.3106	---	PASS
EGPRS850	128	8	0.24411	0.3070	---	PASS
EGPRS850	190	8	0.24478	0.3067	---	PASS
EGPRS850	251	8	0.24371	0.3106	---	PASS
GSM1900	512	0	0.24433	0.3147	---	PASS
GSM1900	661	0	0.24126	0.3152	---	PASS
GSM1900	810	0	0.24298	0.3095	---	PASS
EGPRS1900	512	2	0.24659	0.3112	---	PASS
EGPRS1900	661	2	0.24180	0.3030	---	PASS
EGPRS1900	810	2	0.24275	0.3069	---	PASS

Test Graphs



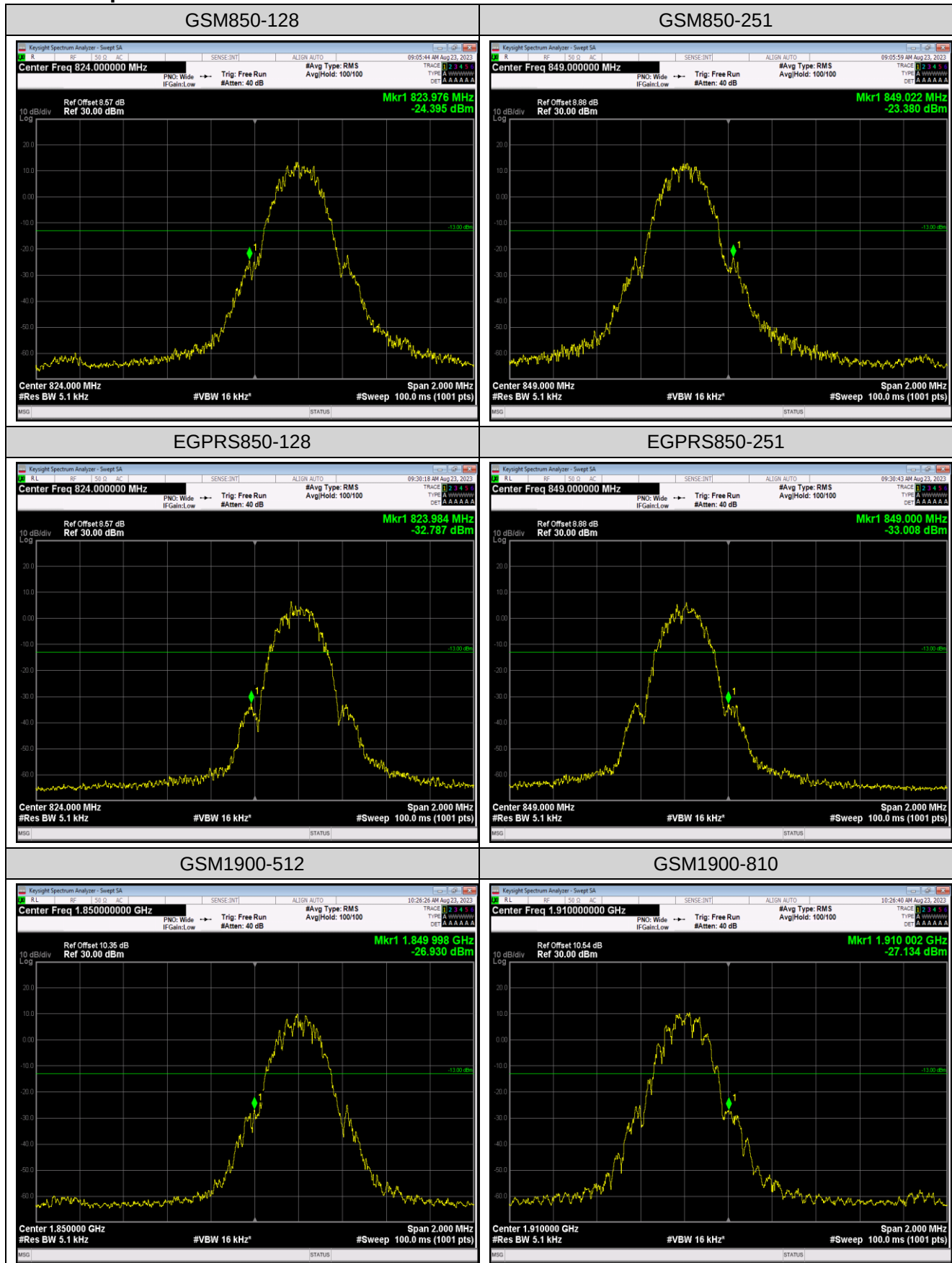


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.40	-13	PASS
GSM850	251	5	849.02	-23.38	-13	PASS
EGPRS850	128	8	823.98	-32.79	-13	PASS
EGPRS850	251	8	849.00	-33.01	-13	PASS
GSM1900	512	0	1850.00	-26.93	-13	PASS
GSM1900	810	0	1910.00	-27.13	-13	PASS
EGPRS1900	512	2	1849.99	-19.86	-13	PASS
EGPRS1900	810	2	1910.01	-21.08	-13	PASS

Test Graphs

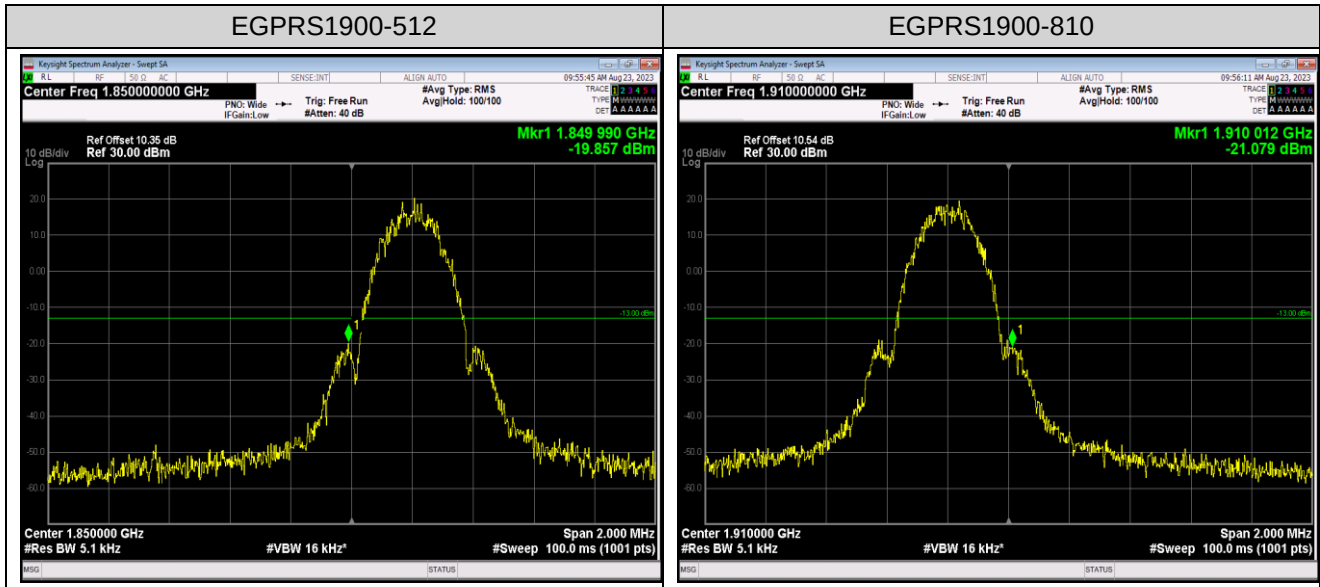


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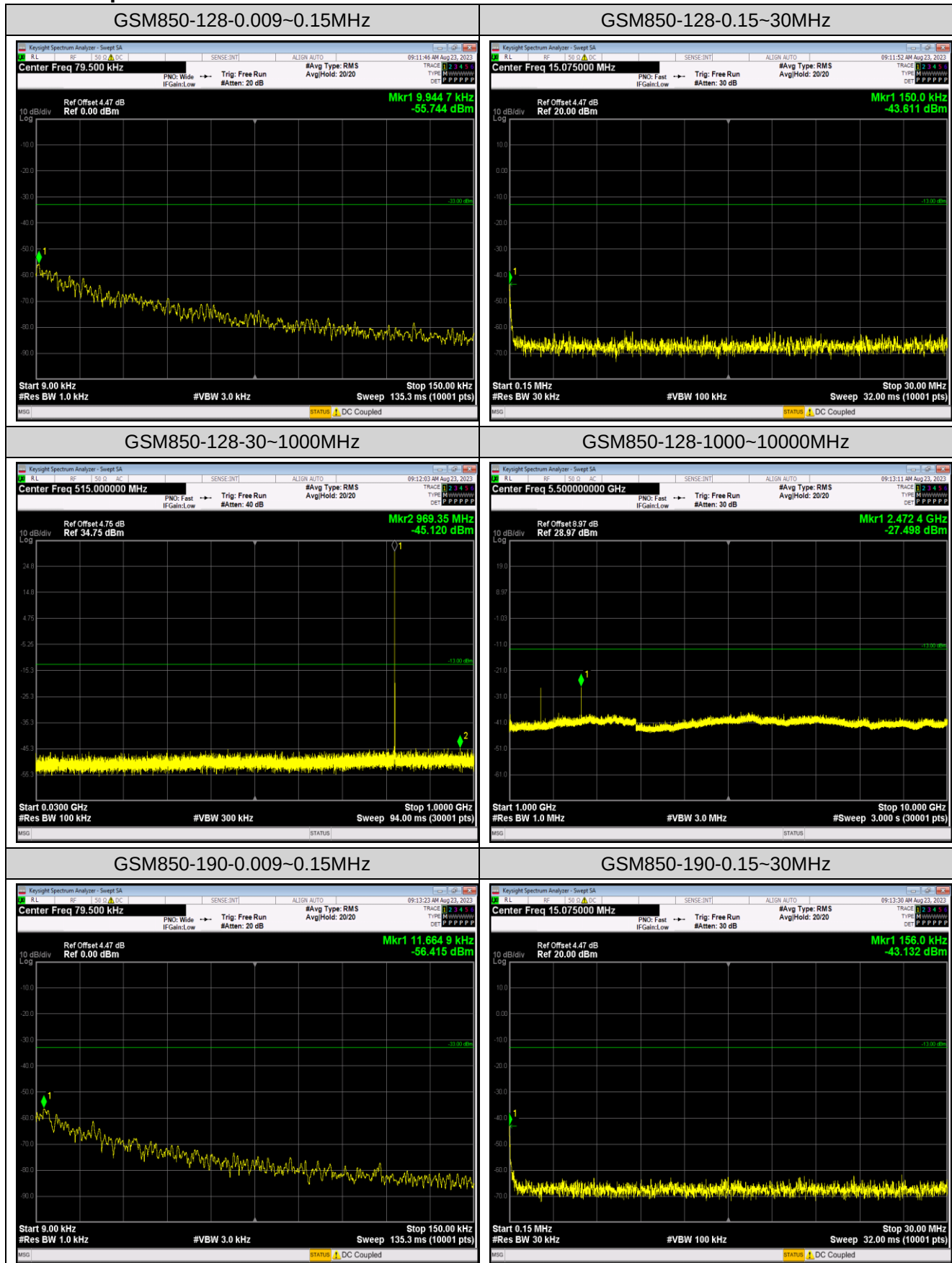
Appendix E: Conducted Spurious Emission

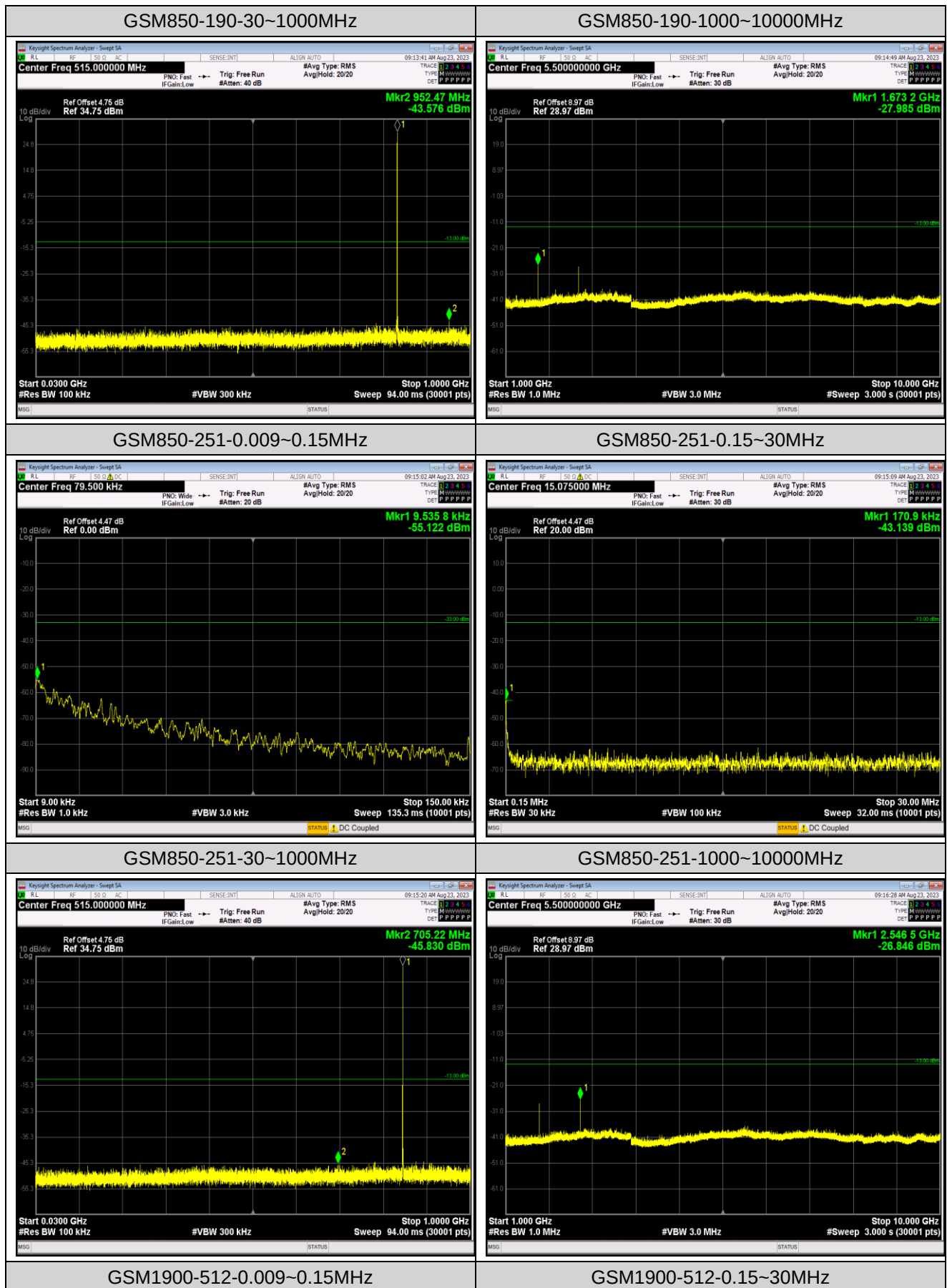
Test Result

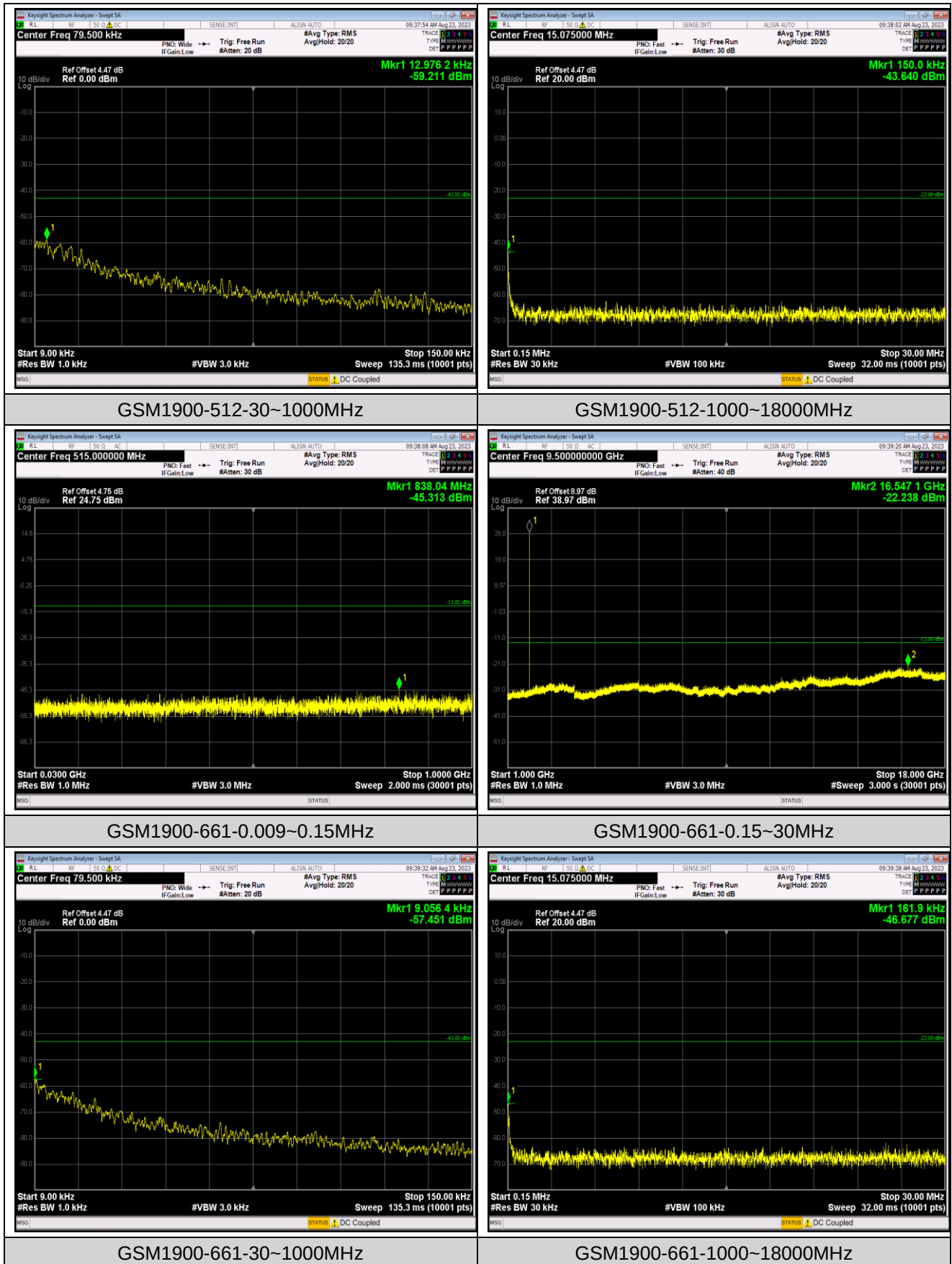
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.74	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-43.61	-13	PASS
GSM850	128	5	30~1000MHz	969.35	-45.12	-13	PASS
GSM850	128	5	1000~10000MHz	2472.4	-27.5	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-56.42	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-43.13	-13	PASS
GSM850	190	5	30~1000MHz	952.47	-43.58	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-27.99	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.12	-33	PASS
GSM850	251	5	0.15~30MHz	0.17	-43.14	-13	PASS
GSM850	251	5	30~1000MHz	705.22	-45.83	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-26.85	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-59.21	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-43.64	-23	PASS
GSM1900	512	0	30~1000MHz	838.04	-45.31	-13	PASS
GSM1900	512	0	1000~18000MHz	16547.07	-22.24	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-57.45	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-46.68	-23	PASS
GSM1900	661	0	30~1000MHz	847.87	-46	-13	PASS
GSM1900	661	0	1000~18000MHz	17009.47	-22.88	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-58.32	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43.75	-23	PASS
GSM1900	810	0	30~1000MHz	754.46	-46.02	-13	PASS
GSM1900	810	0	1000~18000MHz	16949.97	-22.15	-13	PASS

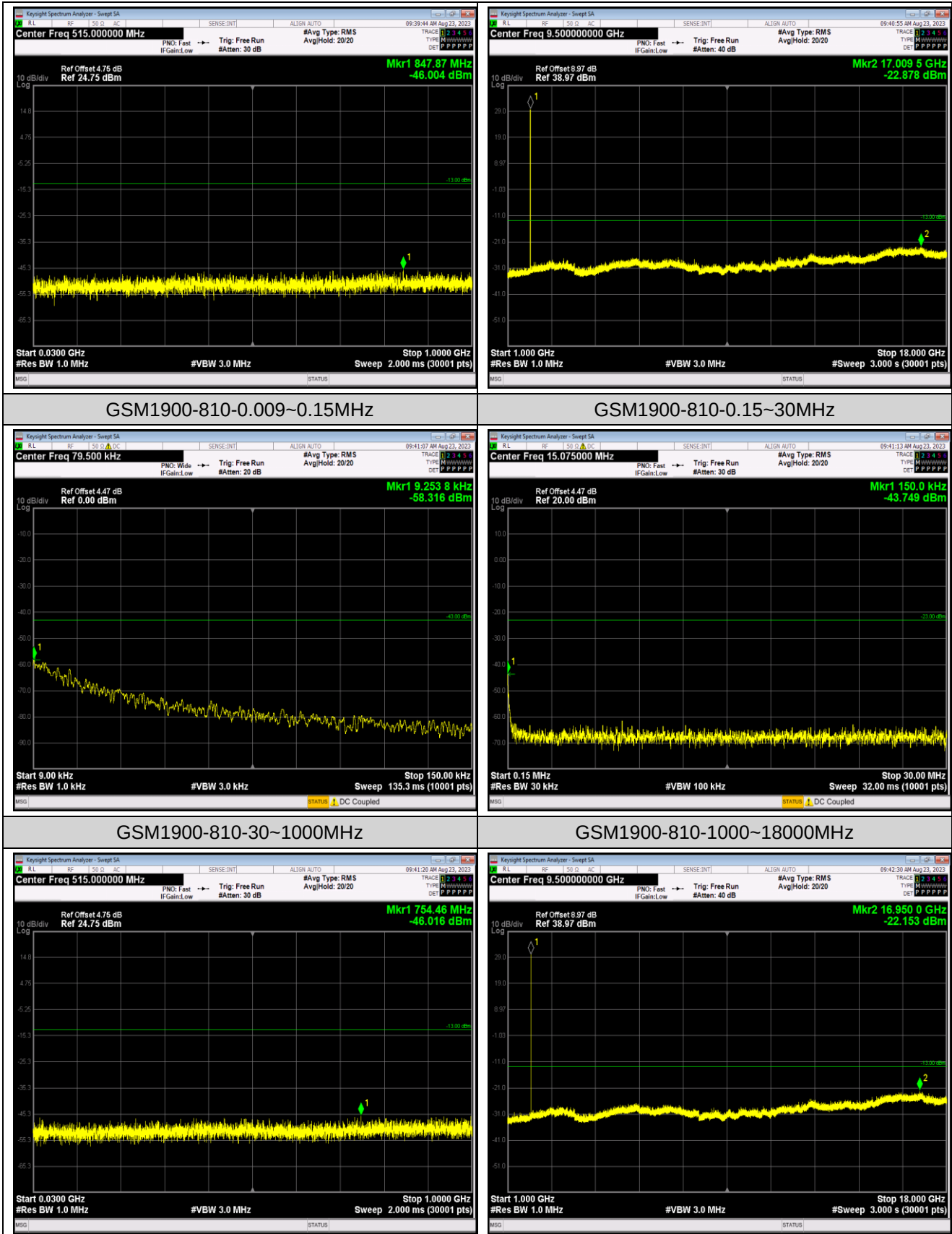
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.85	-30	-6.36	-0.007602	±2.5	Pass
	-20	-7.20	-0.008606		
	-10	-7.85	-0.009383		
	0	-6.68	-0.007985		
	10	-9.27	-0.011081		
	20	-7.04	-0.008415		
	30	-6.13	-0.007327		
	40	-9.33	-0.011152		
	50	-5.81	-0.006945		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-13.53	-0.016173	±2.5	Pass
	3.85	-3.94	-0.004710		
	4.40	-6.62	-0.007913		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	6.78	0.008104	±2.5	Pass
	-20	7.30	0.008726		
	-10	9.07	0.010842		
	0	4.26	0.005092		
	10	10.27	0.012276		
	20	5.71	0.006825		
	30	5.29	0.006323		
	40	4.62	0.005522		
	50	11.11	0.013280		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	11.56	0.013818	±2.5	Pass
	3.85	6.42	0.007674		
	4.40	7.46	0.008917		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	15.05	0.008005	Within authorized band for PCS 1900	Pass
	-20	8.23	0.004378		
	-10	9.33	0.004963		
	0	8.04	0.004277		
	10	5.00	0.002660		
	20	-1.65	-0.000878		
	30	-1.23	-0.000654		
	40	3.91	0.002080		
	50	-2.00	-0.001064		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-5.91	-0.003144	Within authorized band for PCS 1900	Pass
	3.85	4.04	0.002149		
	4.40	5.62	0.002989		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	12.85	0.006835	Within authorized band for PCS 1900	Pass
	-20	12.69	0.006750		
	-10	17.95	0.009548		
	0	4.23	0.002250		
	10	-3.94	-0.002096		
	20	5.55	0.002952		
	30	7.62	0.004053		
	40	15.30	0.008138		
	50	6.62	0.003521		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	2.52	0.001340	Within authorized band for PCS 1900	Pass
	3.85	0.74	0.000394		
	4.40	6.42	0.003415		
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

