

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	33.65	23.22	38.45	PASS
GSM850	190	5	33.79	23.36	38.45	PASS
GSM850	251	5	33.88	23.45	38.45	PASS
GSM1900	512	0	30.10	26.30	33.00	PASS
GSM1900	661	0	31.93	28.13	33.00	PASS
GSM1900	810	0	31.86	28.06	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.49	23.06	38.45	PASS
GPRS850	128	5	2	31.89	21.46	38.45	PASS
GPRS850	128	5	3	30.02	19.59	38.45	PASS
GPRS850	128	5	4	27.84	17.41	38.45	PASS
GPRS850	190	5	1	33.87	23.44	38.45	PASS
GPRS850	190	5	2	31.84	21.41	38.45	PASS
GPRS850	190	5	3	29.96	19.53	38.45	PASS
GPRS850	190	5	4	27.78	17.35	38.45	PASS
GPRS850	251	5	1	33.86	23.43	38.45	PASS
GPRS850	251	5	2	31.92	21.49	38.45	PASS
GPRS850	251	5	3	30.03	19.6	38.45	PASS
GPRS850	251	5	4	27.86	17.43	38.45	PASS
GPRS1900	512	0	1	30.07	26.27	33.00	PASS
GPRS1900	512	0	2	27.87	24.07	33.00	PASS
GPRS1900	512	0	3	26.26	22.46	33.00	PASS
GPRS1900	512	0	4	24.19	20.39	33.00	PASS
GPRS1900	661	0	1	31.94	28.14	33.00	PASS
GPRS1900	661	0	2	29.93	26.13	33.00	PASS
GPRS1900	661	0	3	28.36	24.56	33.00	PASS
GPRS1900	661	0	4	26.23	22.43	33.00	PASS
GPRS1900	810	0	1	31.91	28.11	33.00	PASS
GPRS1900	810	0	2	29.98	26.18	33.00	PASS
GPRS1900	810	0	3	28.45	24.65	33.00	PASS
GPRS1900	810	0	4	26.34	22.54	33.00	PASS

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

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

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

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.86	13	PASS
GSM1900	661	0	2.63	13	PASS

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

Test Graphs

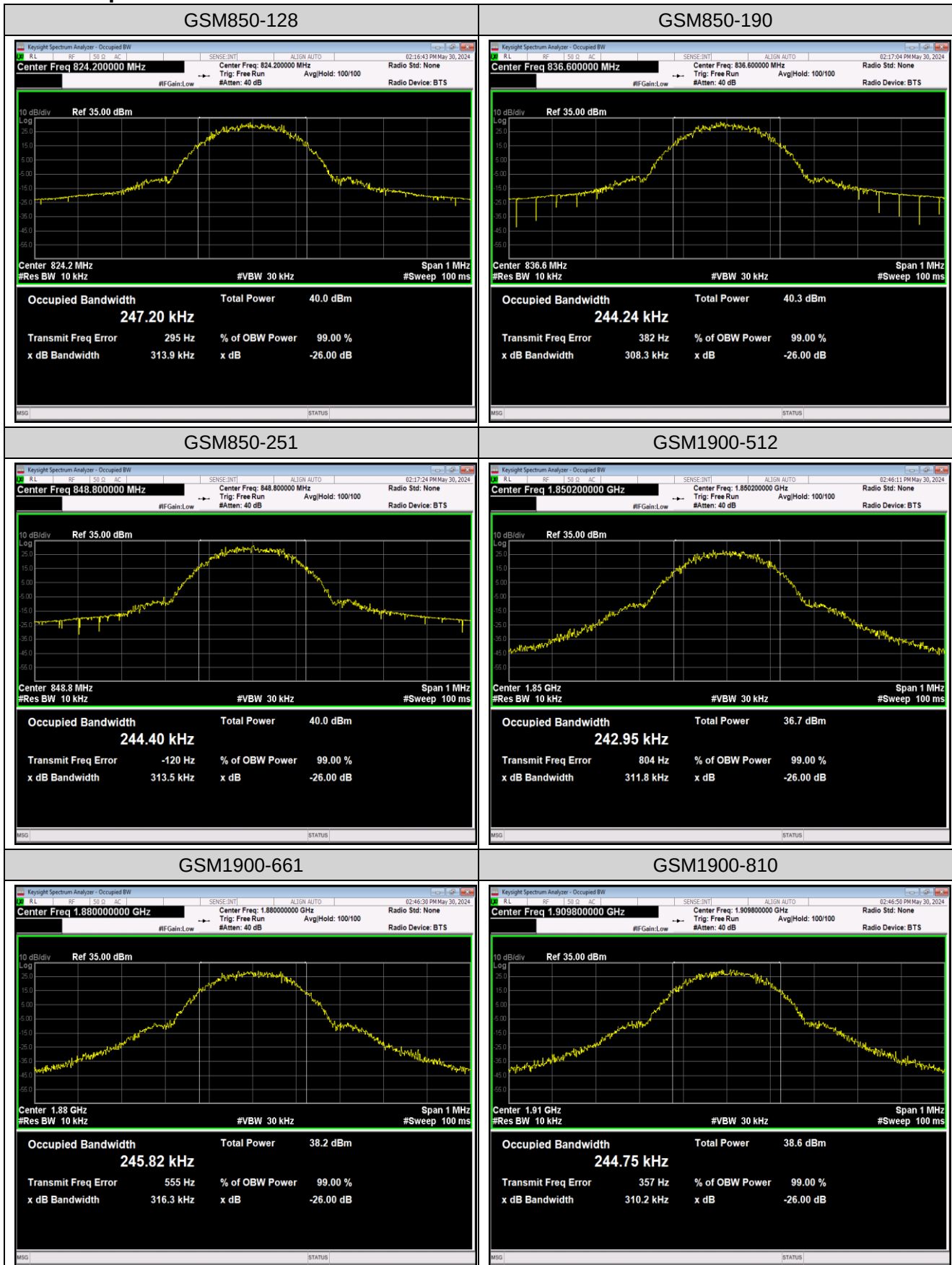


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24720	0.3139	---	PASS
GSM850	190	5	0.24424	0.3083	---	PASS
GSM850	251	5	0.24440	0.3135	---	PASS
GSM1900	512	0	0.24295	0.3118	---	PASS
GSM1900	661	0	0.24582	0.3163	---	PASS
GSM1900	810	0	0.24475	0.3102	---	PASS

Test Graphs

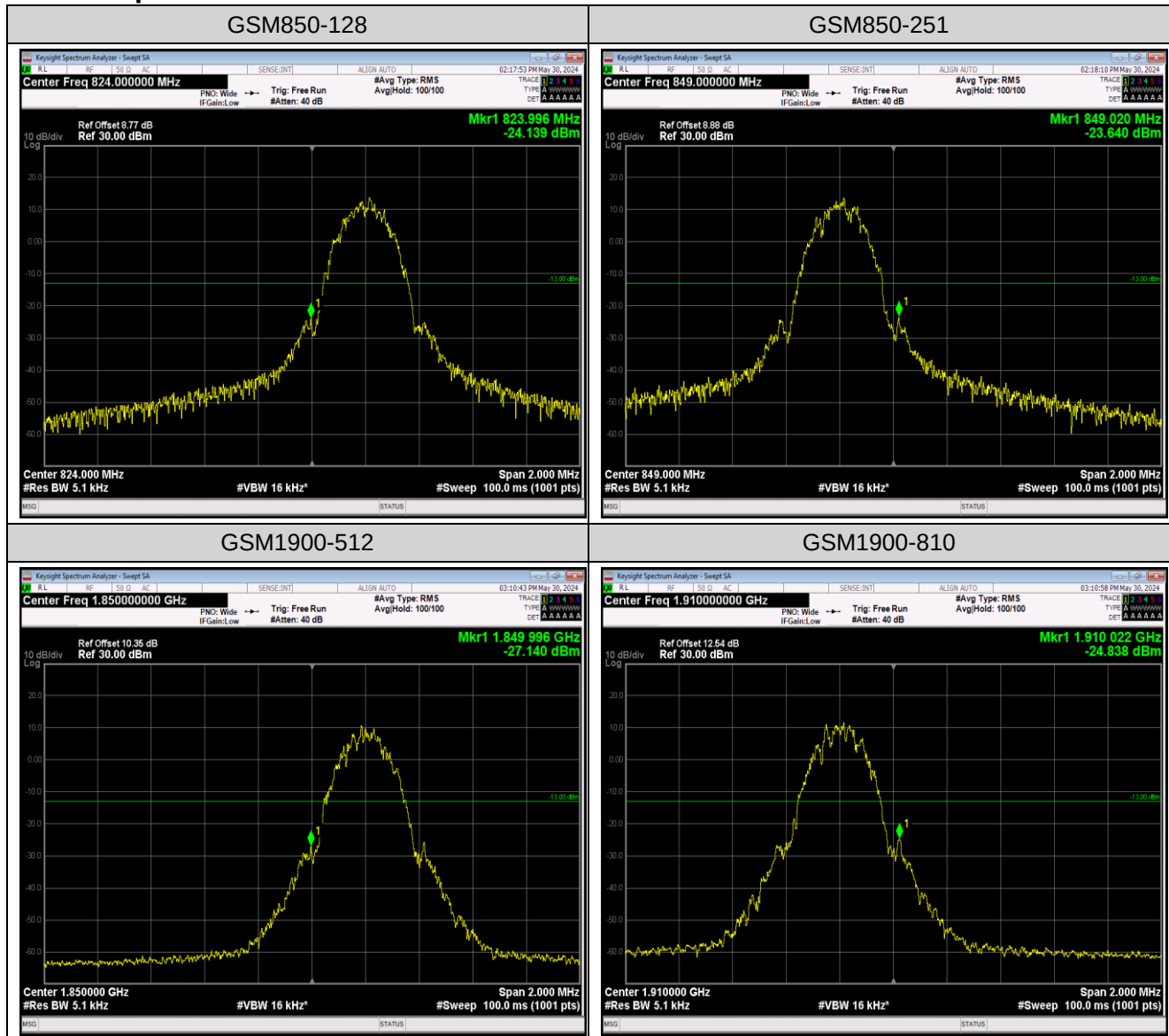


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-24.14	-13	PASS
GSM850	251	5	849.02	-23.64	-13	PASS
GSM1900	512	0	1850.00	-27.14	-13	PASS
GSM1900	810	0	1910.02	-24.84	-13	PASS

Test Graphs



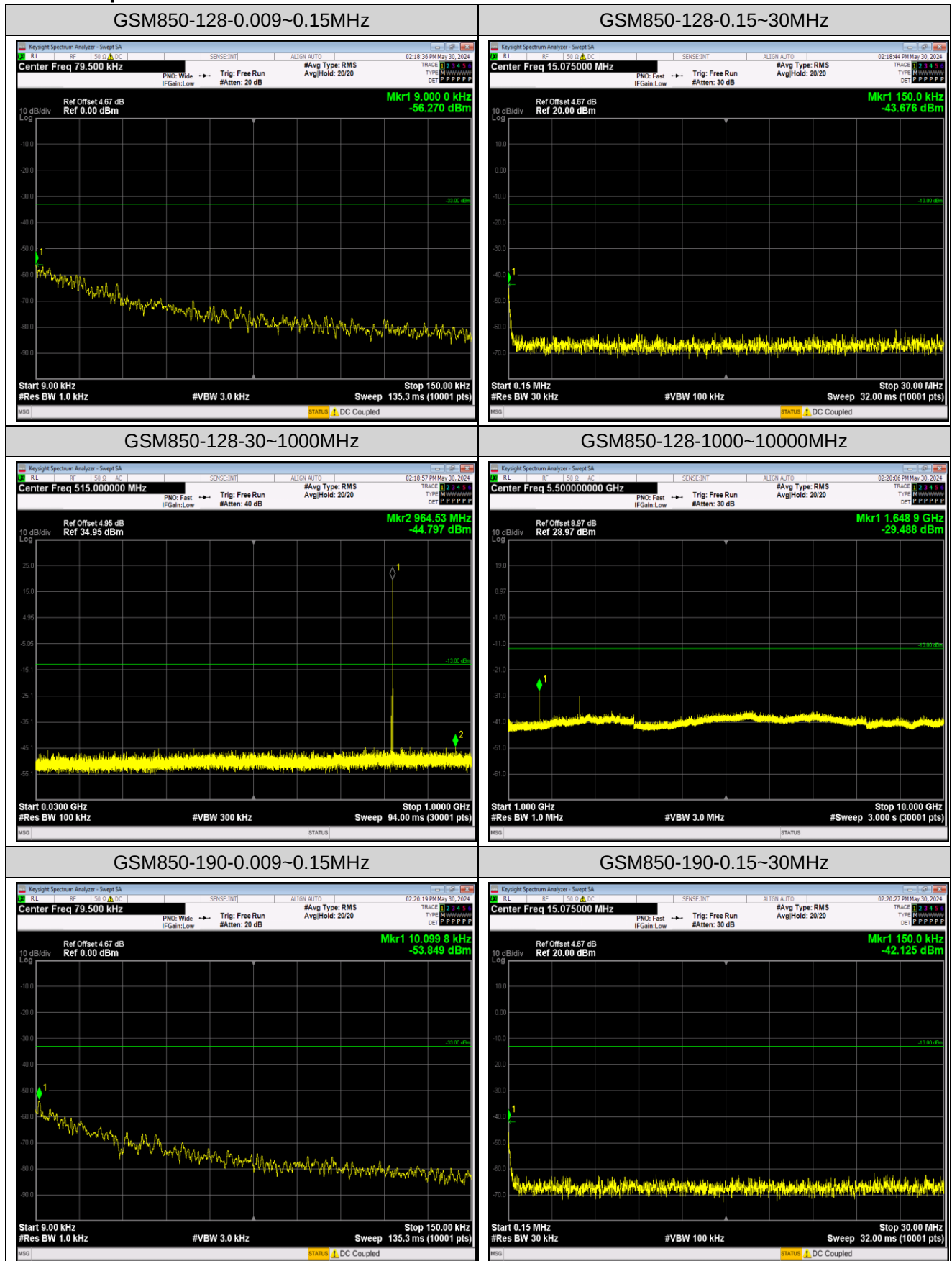
Appendix E: Conducted Spurious Emission

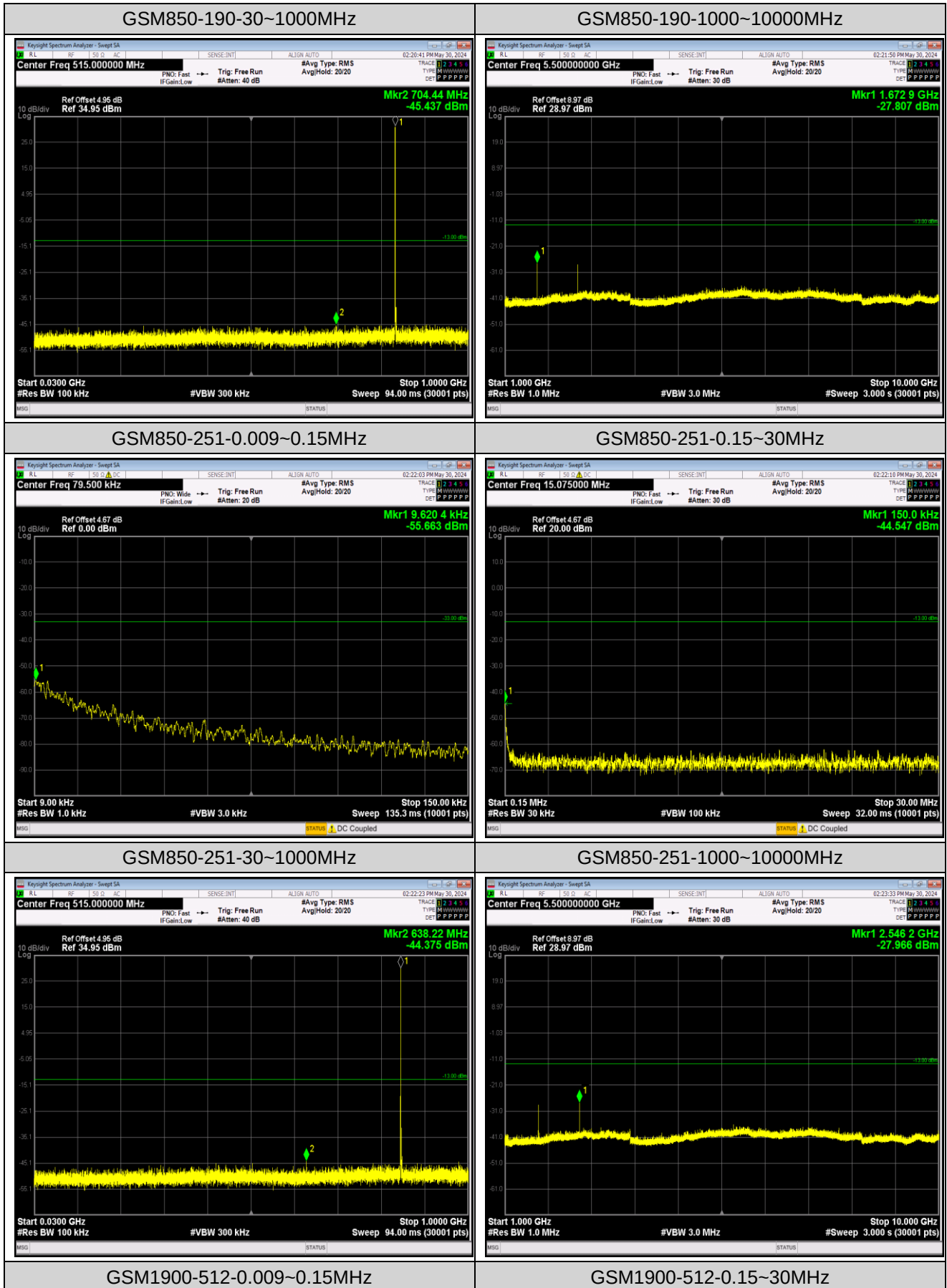
Test Result

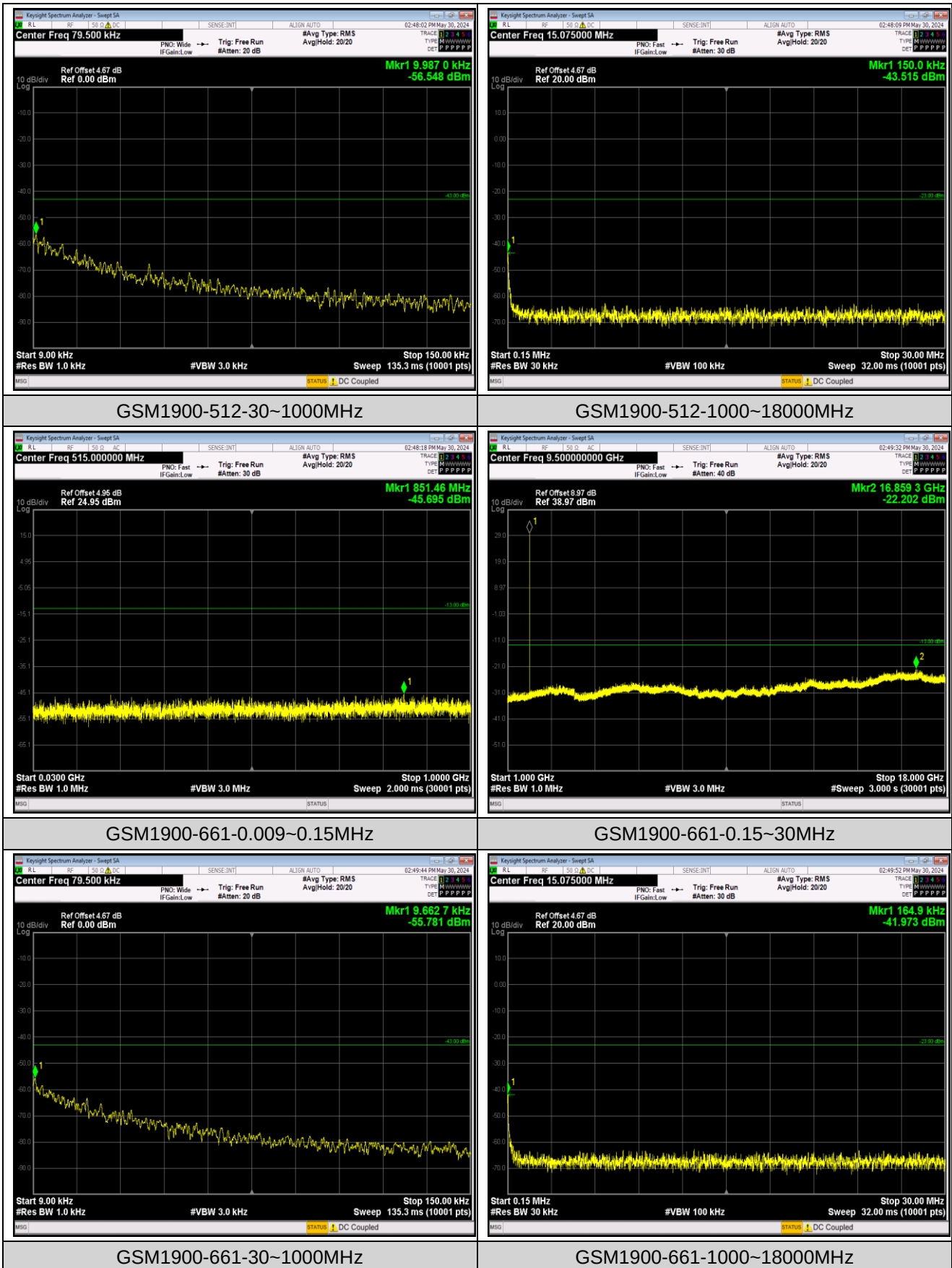
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-56.27	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-43.68	-13	PASS
GSM850	128	5	30~1000MHz	964.53	-44.8	-13	PASS
GSM850	128	5	1000~10000MHz	1648.9	-29.49	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-53.85	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.13	-13	PASS
GSM850	190	5	30~1000MHz	704.44	-45.44	-13	PASS
GSM850	190	5	1000~10000MHz	1672.9	-27.81	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.66	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-44.55	-13	PASS
GSM850	251	5	30~1000MHz	638.22	-44.38	-13	PASS
GSM850	251	5	1000~10000MHz	2546.2	-27.97	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.55	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-43.52	-23	PASS
GSM1900	512	0	30~1000MHz	851.46	-45.7	-13	PASS
GSM1900	512	0	1000~18000MHz	16859.3	-22.2	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.78	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-41.97	-23	PASS
GSM1900	661	0	30~1000MHz	374.38	-45.47	-13	PASS
GSM1900	661	0	1000~18000MHz	16989.63	-22.36	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.5	-43	PASS
GSM1900	810	0	0.15~30MHz	0.18	-44.64	-23	PASS
GSM1900	810	0	30~1000MHz	885.83	-45.78	-13	PASS
GSM1900	810	0	1000~18000MHz	17016.27	-21.87	-13	PASS

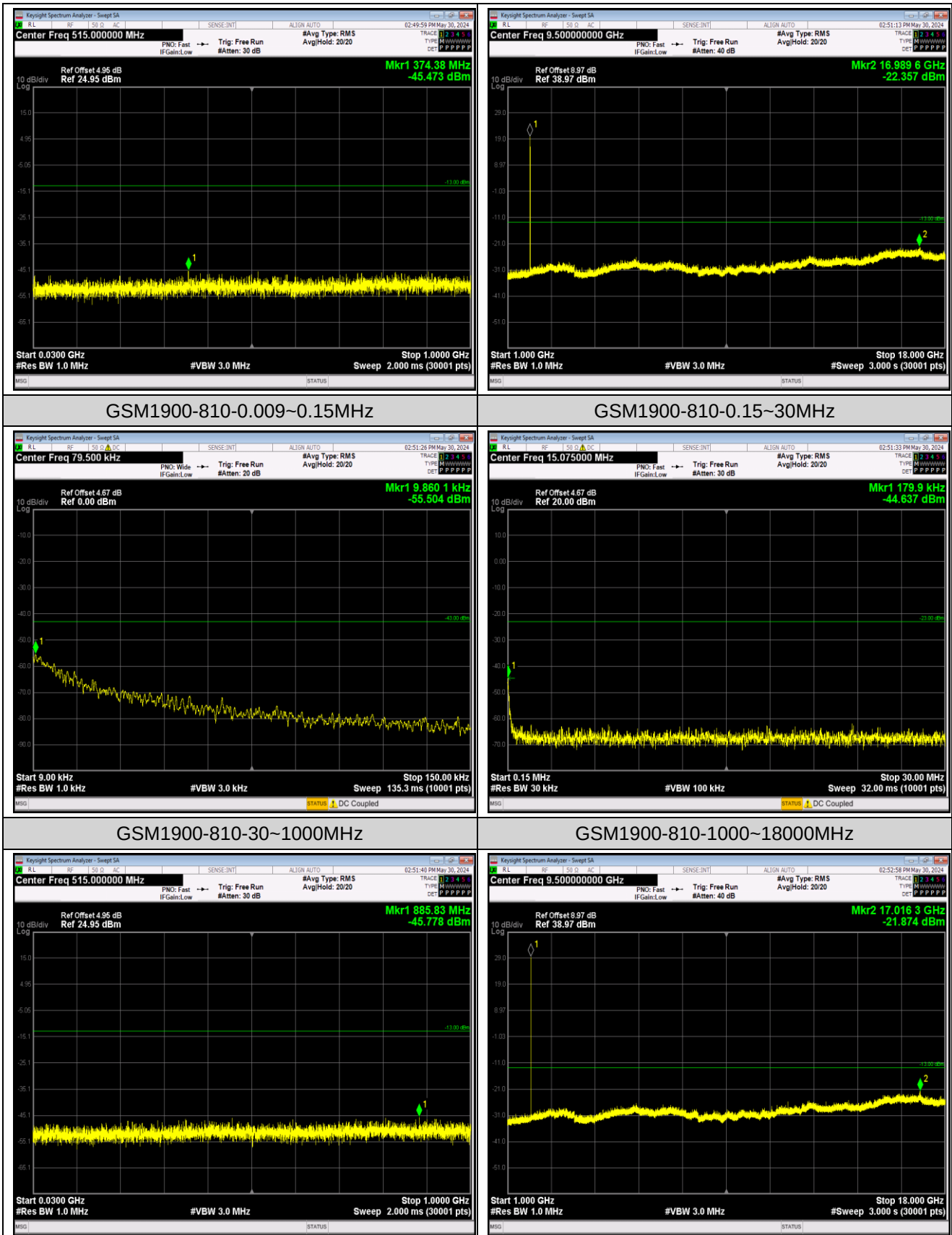
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	5.20	0.006216	±2.5	Pass
	-20	2.00	0.002391		
	-10	6.04	0.007220		
	0	3.39	0.004052		
	10	6.78	0.008104		
	20	15.79	0.018874		
	30	8.94	0.010686		
	40	9.33	0.011152		
	50	3.03	0.003622		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	6.62	0.007913	±2.5	Pass
	3.85	6.17	0.007375		
	4.40	5.84	0.006981		
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		
3.85	-30	7.23	0.003846	Within authorized band for PCS 1900	Pass
	-20	-4.62	-0.002457		
	-10	10.04	0.005340		
	0	6.55	0.003484		
	10	0.13	0.000069		
	20	0.58	0.000309		
	30	7.14	0.003798		
	40	1.71	0.000910		
	50	0.68	0.000362		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	11.82	0.006287	Within authorized band for PCS 1900	Pass
	3.85	0.19	0.000101		
	4.40	19.18	0.010202		
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

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

Test Graphs

