

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	33.01	31.36	38.45	PASS
GSM850	190	5	33.19	31.54	38.45	PASS
GSM850	251	5	33.34	31.69	38.45	PASS
GSM1900	512	0	30.25	32.25	33.00	PASS
GSM1900	661	0	30.07	32.07	33.00	PASS
GSM1900	810	0	29.99	31.99	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.99	31.34	38.45	PASS
GPRS850	128	5	2	31.91	30.26	38.45	PASS
GPRS850	128	5	3	29.54	27.89	38.45	PASS
GPRS850	128	5	4	28.31	26.66	38.45	PASS
GPRS850	190	5	1	33.18	31.53	38.45	PASS
GPRS850	190	5	2	32.04	30.39	38.45	PASS
GPRS850	190	5	3	29.61	27.96	38.45	PASS
GPRS850	190	5	4	28.36	26.71	38.45	PASS
GPRS850	251	5	1	33.32	31.67	38.45	PASS
GPRS850	251	5	2	32.23	30.58	38.45	PASS
GPRS850	251	5	3	29.86	28.21	38.45	PASS
GPRS850	251	5	4	28.61	26.96	38.45	PASS
GPRS1900	512	0	1	30.27	32.27	33.00	PASS
GPRS1900	512	0	2	29.62	31.62	33.00	PASS
GPRS1900	512	0	3	27.48	29.48	33.00	PASS
GPRS1900	512	0	4	26.06	28.06	33.00	PASS
GPRS1900	661	0	1	30.15	32.15	33.00	PASS
GPRS1900	661	0	2	29.52	31.52	33.00	PASS
GPRS1900	661	0	3	27.36	29.36	33.00	PASS
GPRS1900	661	0	4	25.93	27.93	33.00	PASS
GPRS1900	810	0	1	30.05	32.05	33.00	PASS
GPRS1900	810	0	2	29.49	31.49	33.00	PASS
GPRS1900	810	0	3	27.46	29.46	33.00	PASS
GPRS1900	810	0	4	26.06	28.06	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	2.71	13	PASS
GSM1900	661	0	2.65	13	PASS

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

Test Graphs

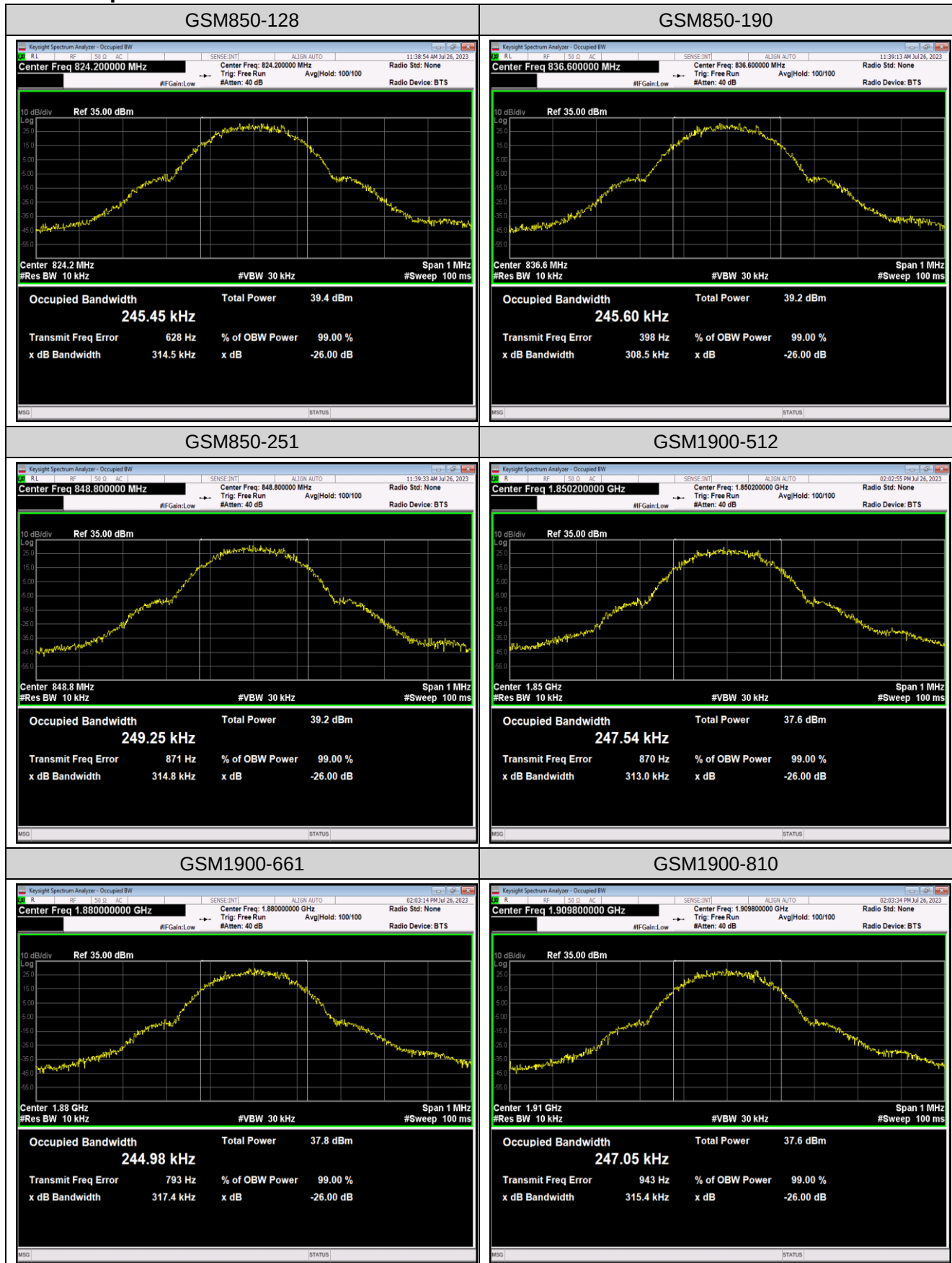


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24545	0.3145	---	PASS
GSM850	190	5	0.24560	0.3085	---	PASS
GSM850	251	5	0.24925	0.3148	---	PASS
GSM1900	512	0	0.24754	0.3130	---	PASS
GSM1900	661	0	0.24498	0.3174	---	PASS
GSM1900	810	0	0.24705	0.3154	---	PASS

Test Graphs

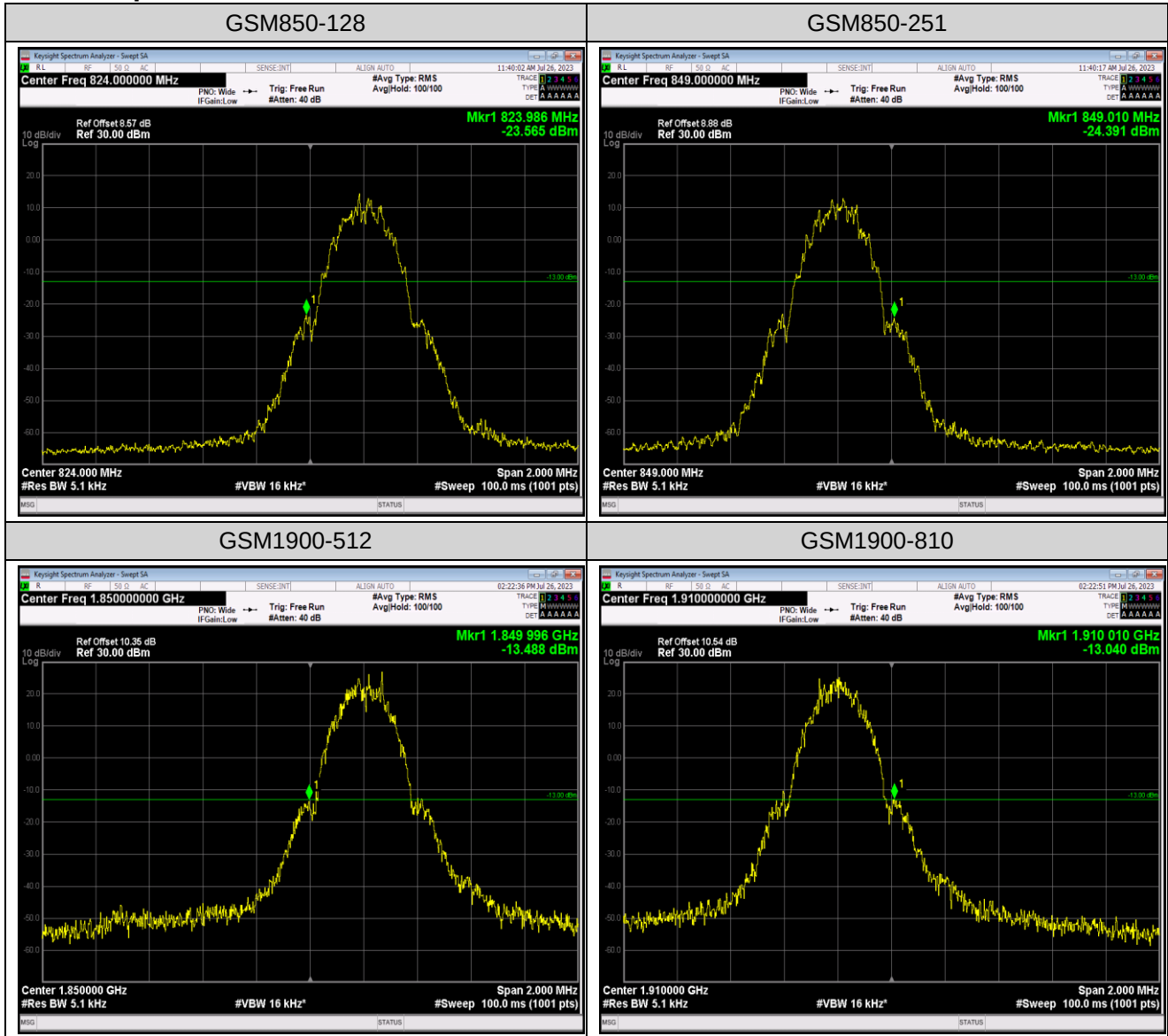


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.99	-23.57	-13	PASS
GSM850	251	5	849.01	-24.39	-13	PASS
GSM1900	512	0	1850.00	-13.49	-13	PASS
GSM1900	810	0	1910.01	-13.04	-13	PASS

Test Graphs



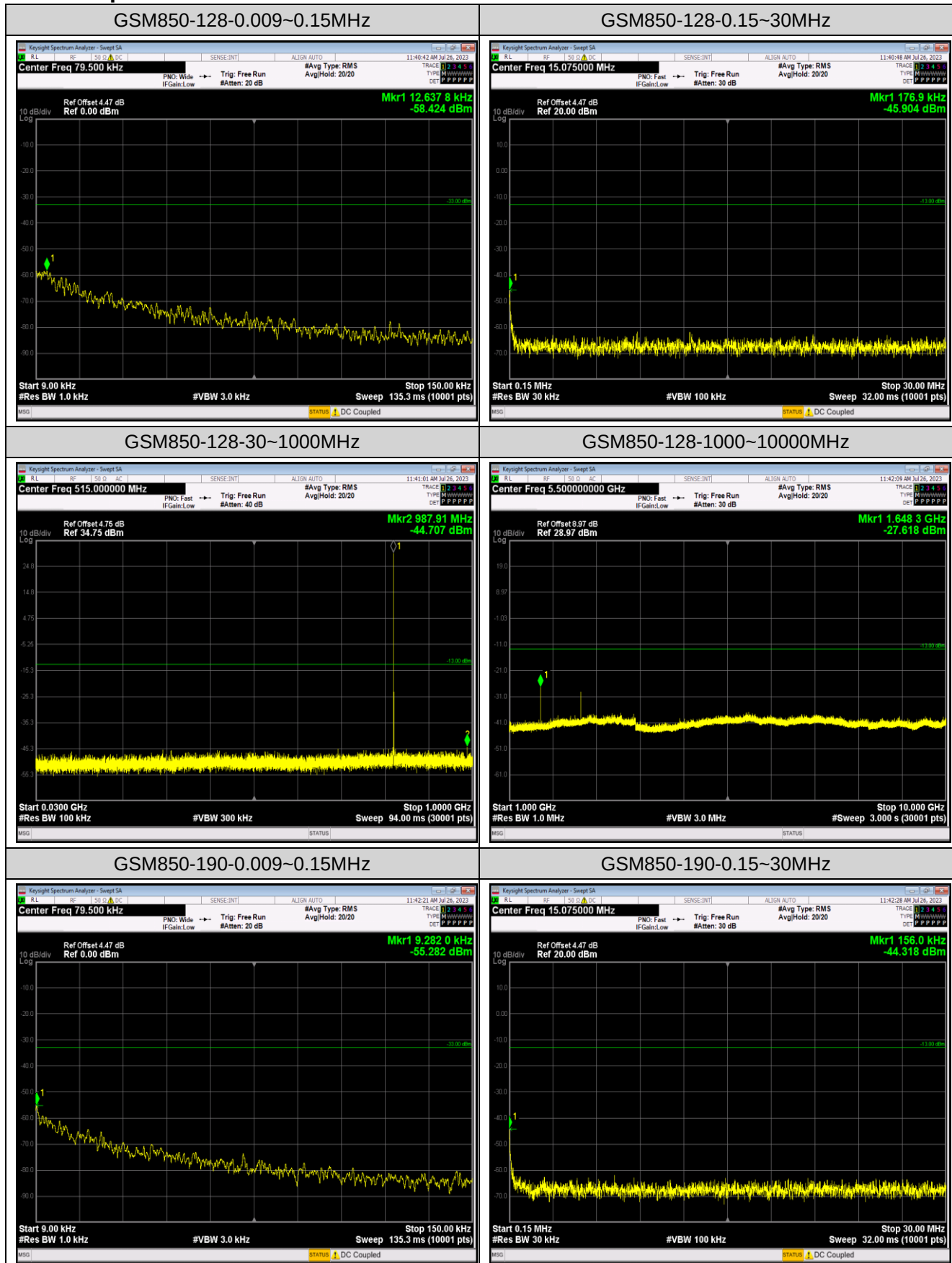
Appendix E: Conducted Spurious Emission

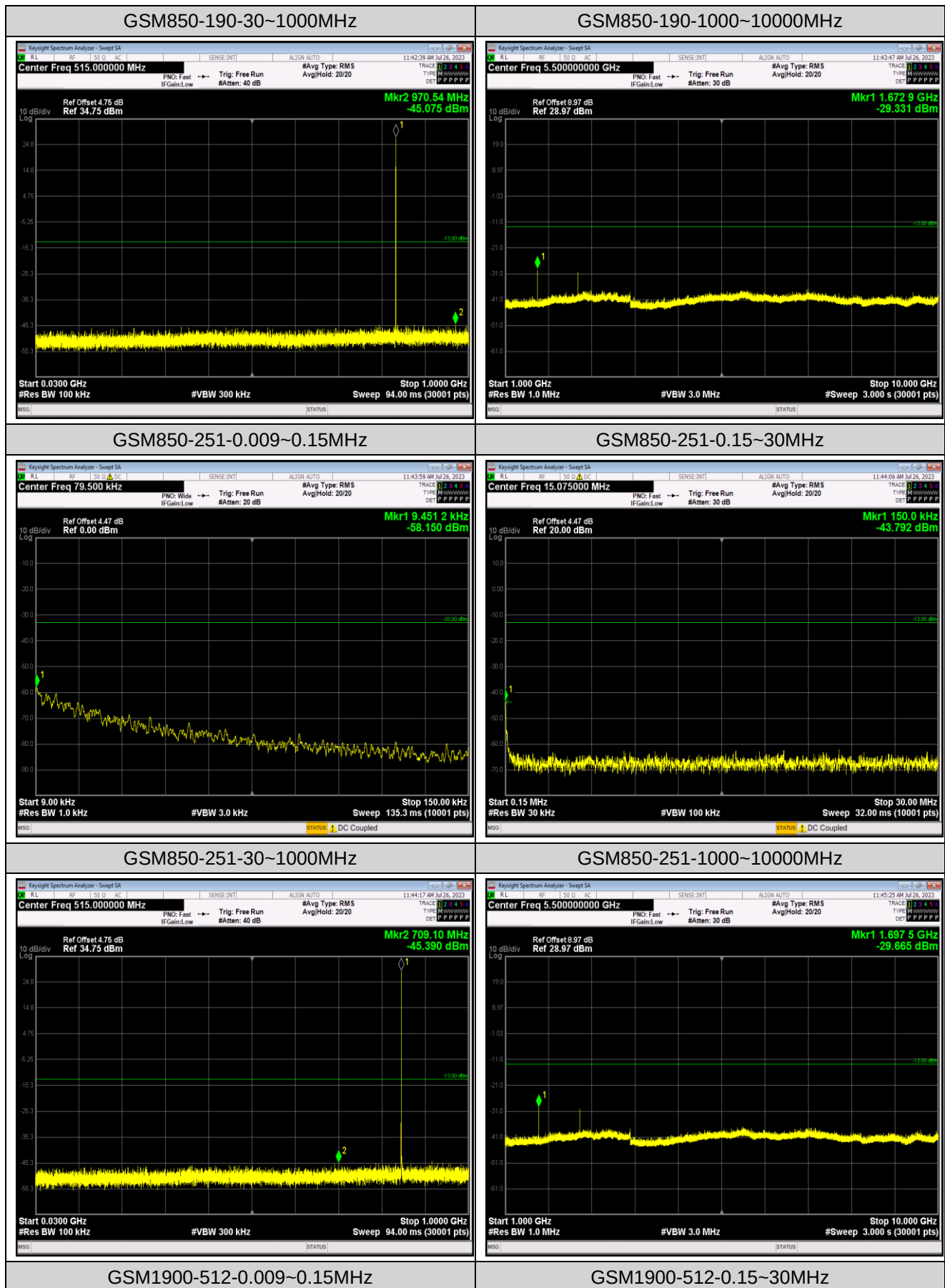
Test Result

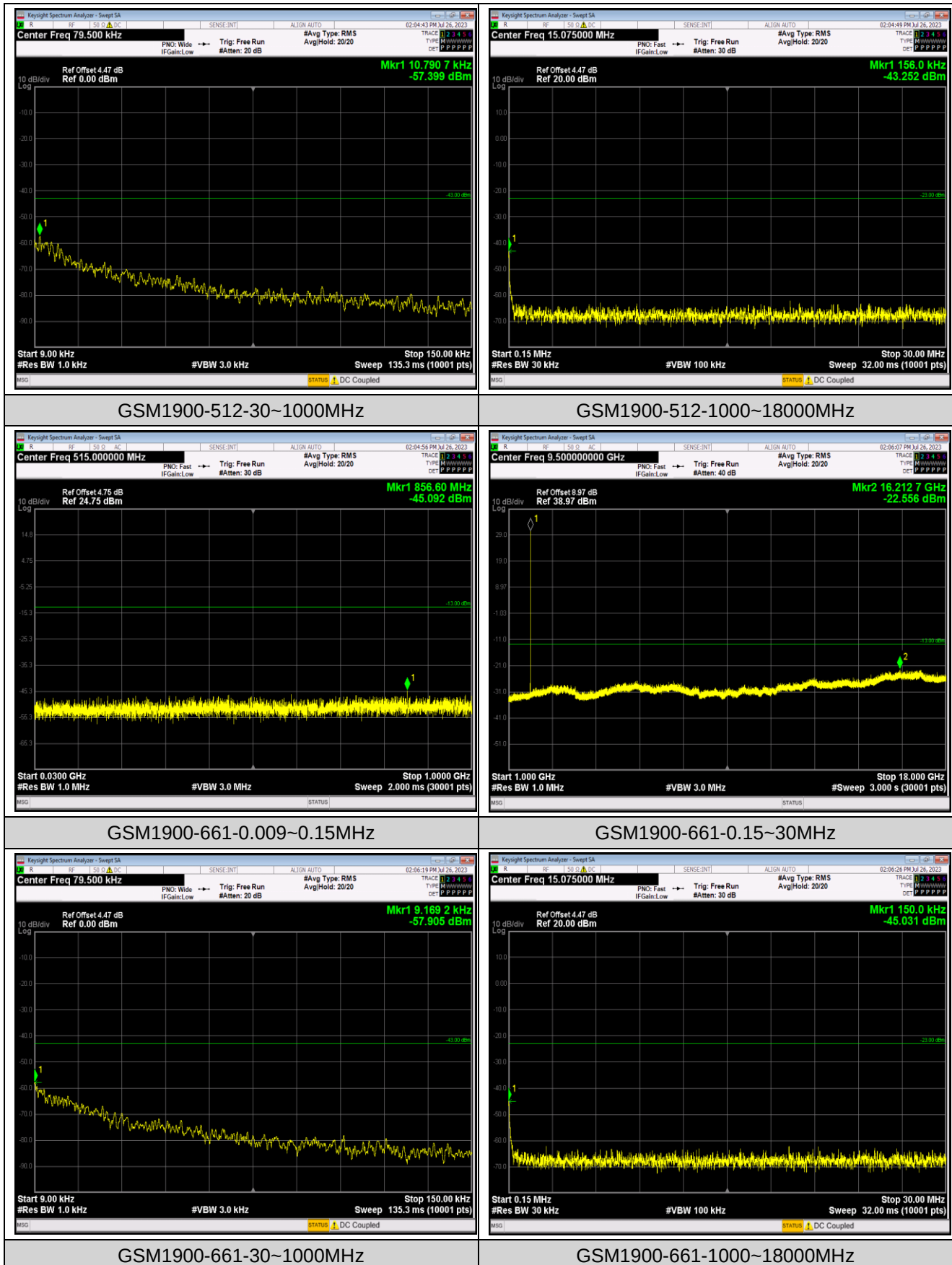
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-58.42	-33	PASS
GSM850	128	5	0.15~30MHz	0.18	-45.9	-13	PASS
GSM850	128	5	30~1000MHz	987.91	-44.71	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-27.62	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.28	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-44.32	-13	PASS
GSM850	190	5	30~1000MHz	970.54	-45.08	-13	PASS
GSM850	190	5	1000~10000MHz	1672.9	-29.33	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-58.15	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-43.79	-13	PASS
GSM850	251	5	30~1000MHz	709.1	-45.39	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-29.67	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-57.4	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-43.25	-23	PASS
GSM1900	512	0	30~1000MHz	856.6	-45.09	-13	PASS
GSM1900	512	0	1000~18000MHz	16212.73	-22.56	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-57.91	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-45.03	-23	PASS
GSM1900	661	0	30~1000MHz	742.72	-45.87	-13	PASS
GSM1900	661	0	1000~18000MHz	16985.1	-22.14	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.15	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-44.21	-23	PASS
GSM1900	810	0	30~1000MHz	890.88	-46.04	-13	PASS
GSM1900	810	0	1000~18000MHz	16999.27	-22.67	-13	PASS

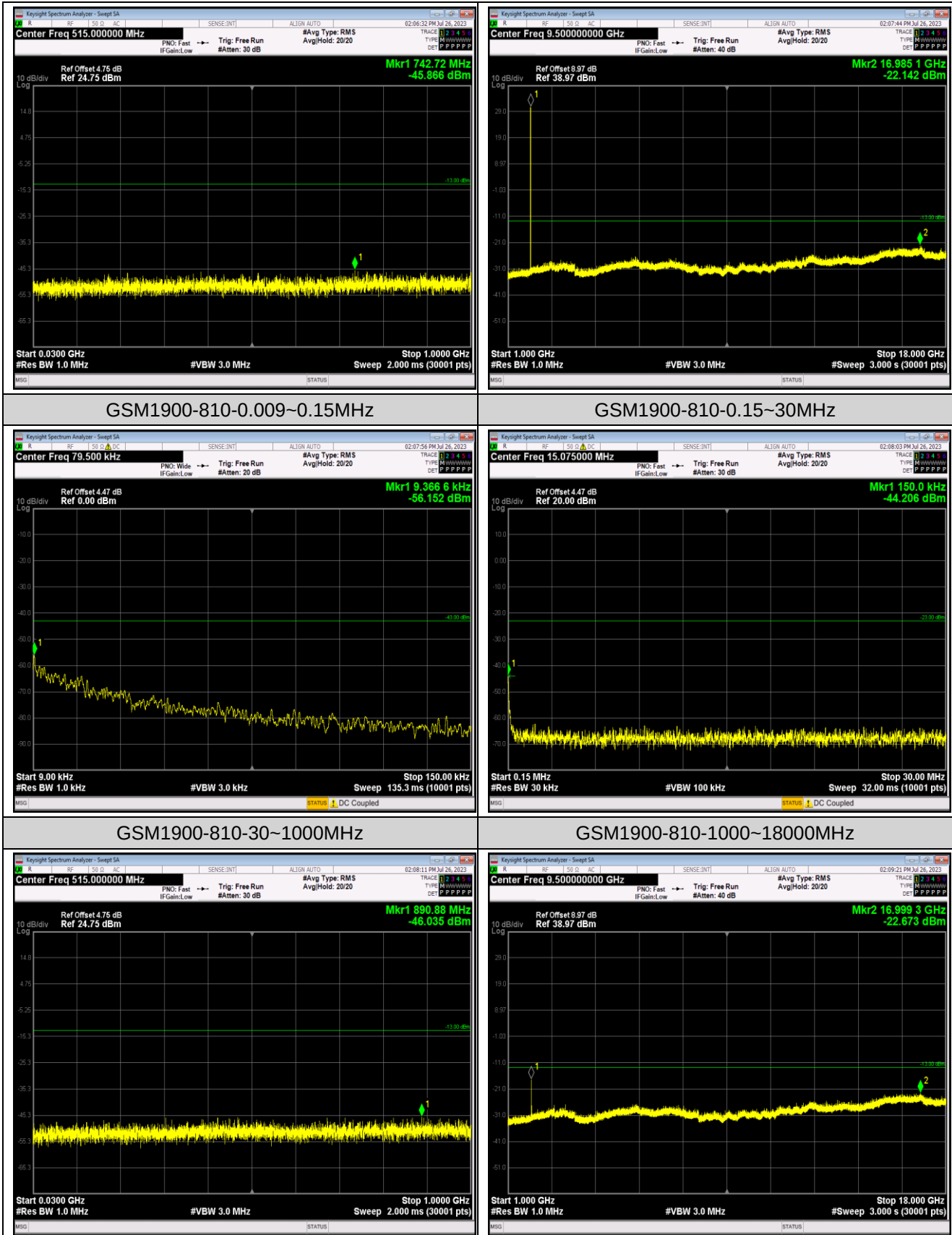
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.80	-30	13.53	0.016173	±2.5	Pass
	-20	12.24	0.014631		
	-10	11.30	0.013507		
	0	10.46	0.012503		
	10	8.75	0.010459		
	20	8.20	0.009802		
	30	15.01	0.017942		
	40	12.82	0.015324		
	50	11.98	0.014320		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	6.55	0.007829	±2.5	Pass
	3.80	9.59	0.011463		
	4.35	12.14	0.014511		
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		
3.80	-30	84.88	0.045149	Within authorized band for PCS 1900	Pass
	-20	98.57	0.052431		
	-10	101.57	0.054027		
	0	97.18	0.051691		
	10	90.14	0.047947		
	20	100.86	0.053649		
	30	92.31	0.049101		
	40	104.64	0.055660		
	50	124.04	0.065979		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	104.93	0.055814	Within authorized band for PCS 1900	Pass
	3.80	97.24	0.051723		
	4.35	125.53	0.066771		
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
GSM1900	661	PASS	PASS

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

Test Graphs

