

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	33.96	31.56	38.45	PASS
GSM850	190	5	33.88	31.48	38.45	PASS
GSM850	251	5	34.09	31.69	38.45	PASS
GSM1900	512	0	30.43	30.65	33.00	PASS
GSM1900	661	0	30.53	30.75	33.00	PASS
GSM1900	810	0	29.86	30.08	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	34.08	31.68	38.45	PASS
GPRS850	128	5	2	31.54	29.14	38.45	PASS
GPRS850	128	5	3	29.64	27.24	38.45	PASS
GPRS850	128	5	4	27.59	25.19	38.45	PASS
GPRS850	190	5	1	33.98	31.58	38.45	PASS
GPRS850	190	5	2	31.28	28.88	38.45	PASS
GPRS850	190	5	3	29.37	26.97	38.45	PASS
GPRS850	190	5	4	27.32	24.92	38.45	PASS
GPRS850	251	5	1	34.22	31.82	38.45	PASS
GPRS850	251	5	2	31.27	28.87	38.45	PASS
GPRS850	251	5	3	29.33	26.93	38.45	PASS
GPRS850	251	5	4	27.23	24.83	38.45	PASS
GPRS1900	512	0	1	30.44	30.66	33.00	PASS
GPRS1900	512	0	2	27.86	28.08	33.00	PASS
GPRS1900	512	0	3	26.33	26.55	33.00	PASS
GPRS1900	512	0	4	24.18	24.4	33.00	PASS
GPRS1900	661	0	1	30.47	30.69	33.00	PASS
GPRS1900	661	0	2	27.65	27.87	33.00	PASS
GPRS1900	661	0	3	26.06	26.28	33.00	PASS
GPRS1900	661	0	4	23.89	24.11	33.00	PASS
GPRS1900	810	0	1	29.82	30.04	33.00	PASS
GPRS1900	810	0	2	26.90	27.12	33.00	PASS
GPRS1900	810	0	3	25.28	25.5	33.00	PASS
GPRS1900	810	0	4	23.07	23.29	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	2.67	13	PASS
GSM1900	661	0	2.75	13	PASS

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

Test Graphs

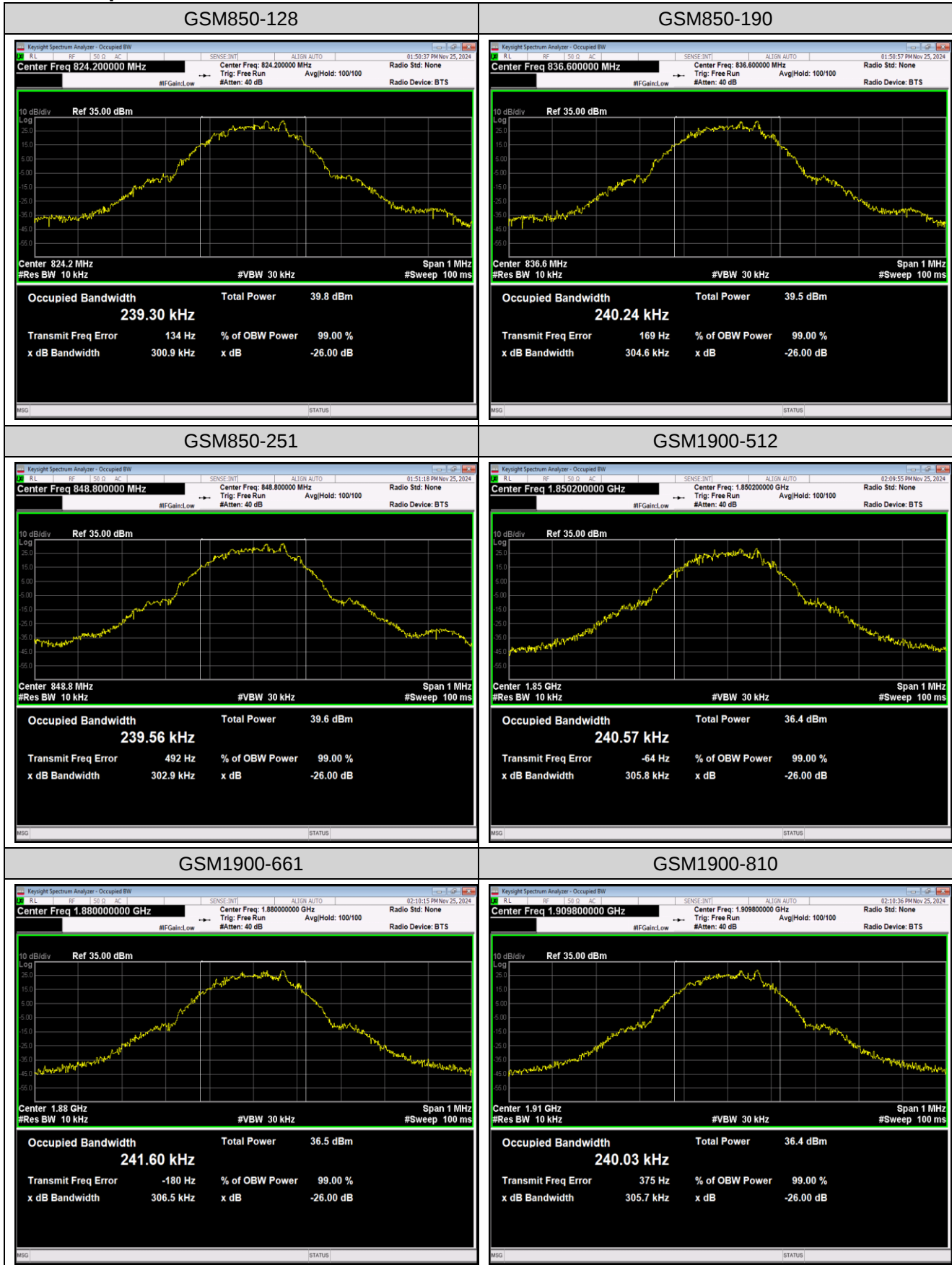


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.23930	0.3009	---	PASS
GSM850	190	5	0.24024	0.3046	---	PASS
GSM850	251	5	0.23956	0.3029	---	PASS
GSM1900	512	0	0.24057	0.3058	---	PASS
GSM1900	661	0	0.24160	0.3065	---	PASS
GSM1900	810	0	0.24003	0.3057	---	PASS

Test Graphs

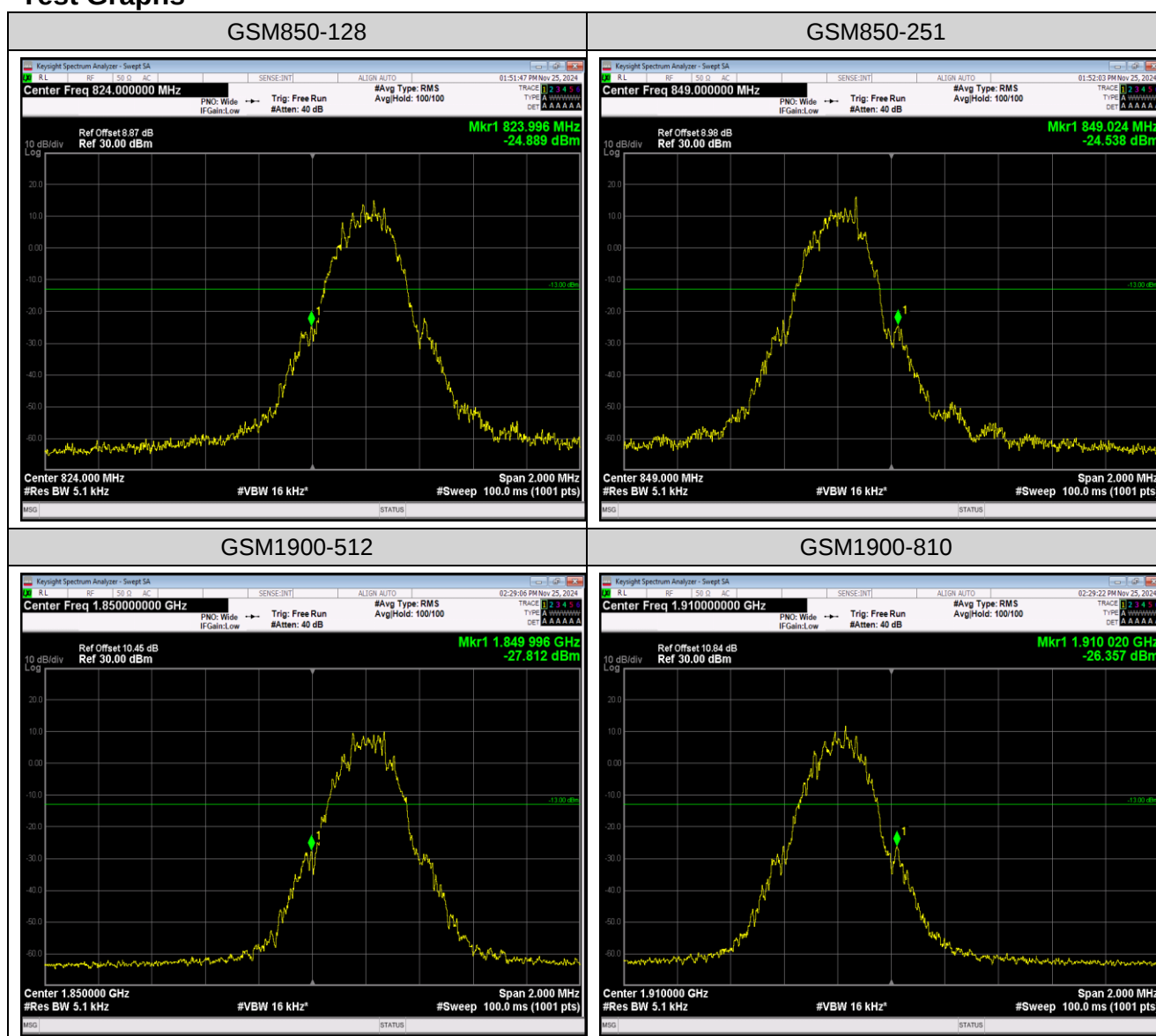


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-24.89	-13	PASS
GSM850	251	5	849.02	-24.54	-13	PASS
GSM1900	512	0	1850.00	-27.81	-13	PASS
GSM1900	810	0	1910.02	-26.36	-13	PASS

Test Graphs



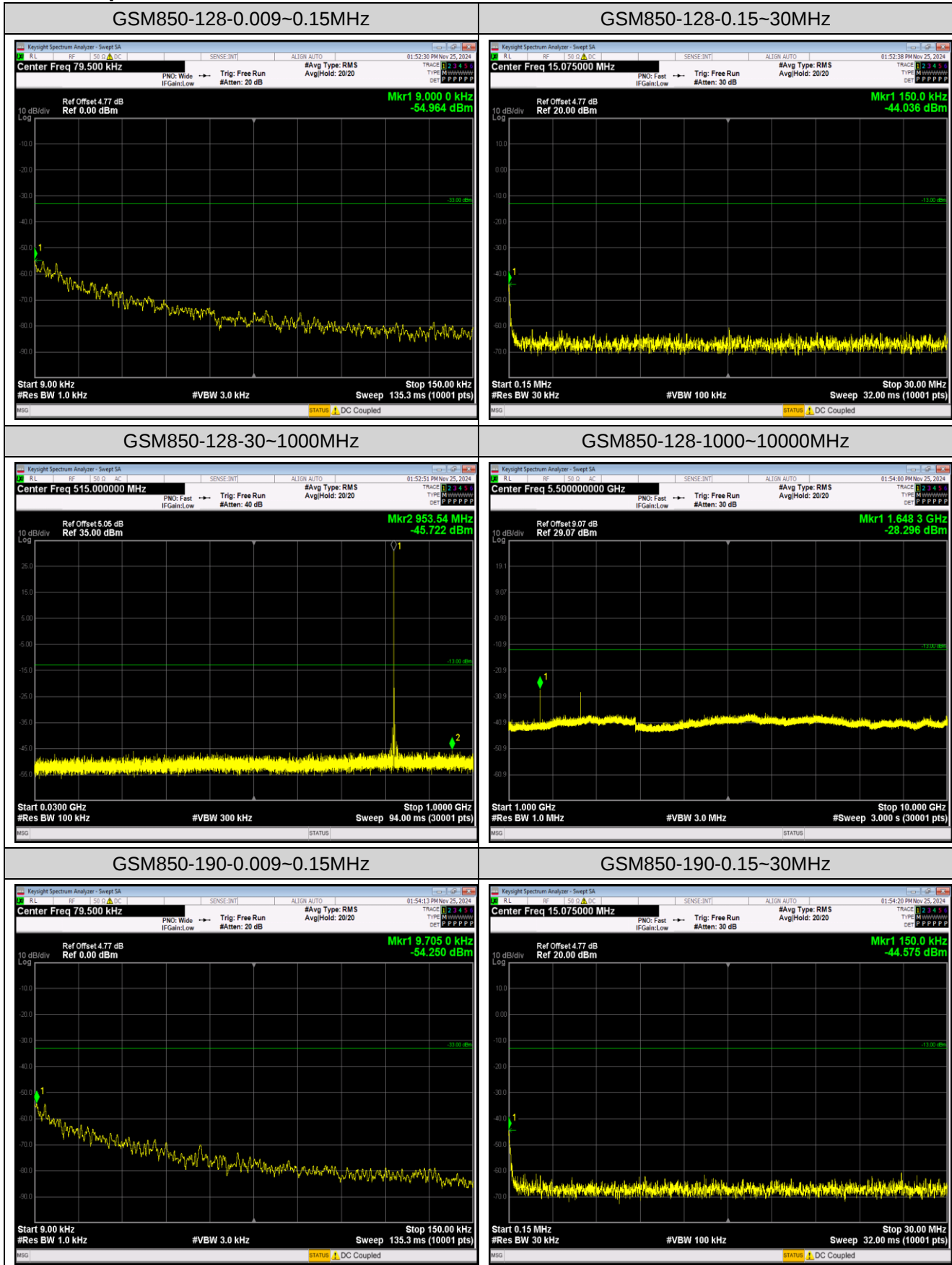
Appendix E: Conducted Spurious Emission

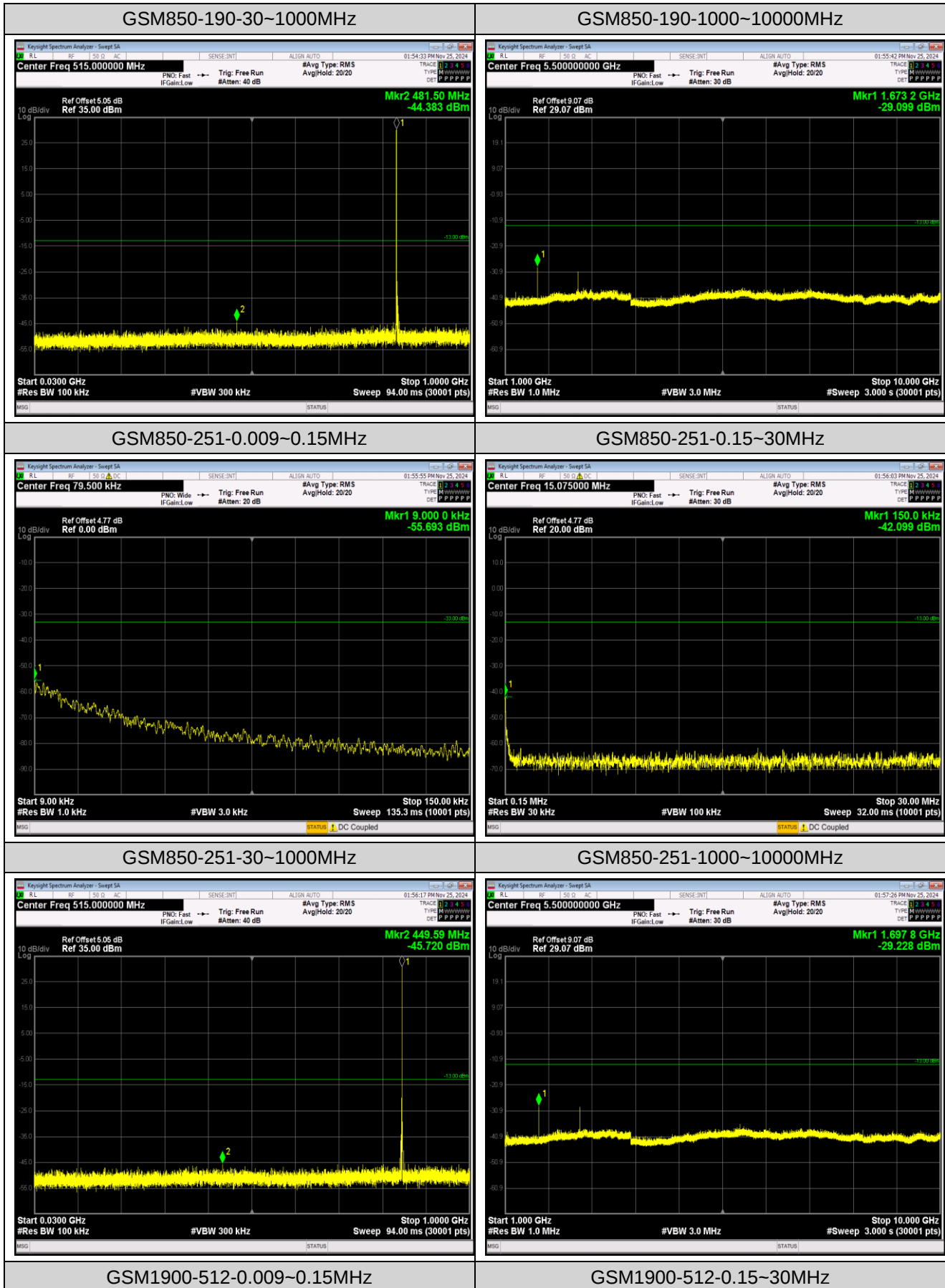
Test Result

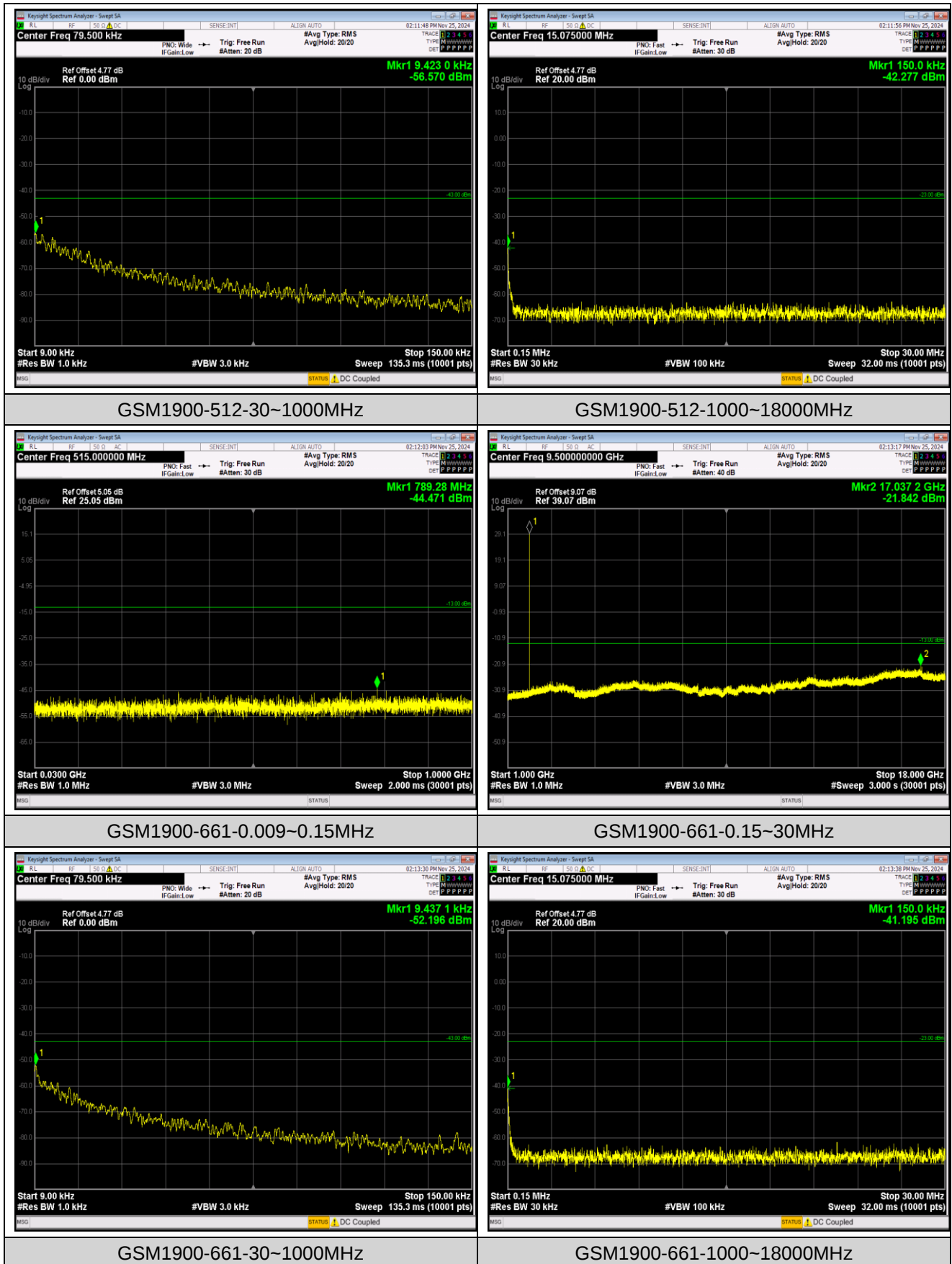
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.96	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-44.04	-13	PASS
GSM850	128	5	30~1000MHz	953.54	-45.72	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-28.3	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.25	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-44.58	-13	PASS
GSM850	190	5	30~1000MHz	481.5	-44.38	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-29.1	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.69	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.1	-13	PASS
GSM850	251	5	30~1000MHz	449.59	-45.72	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-29.23	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.57	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.28	-23	PASS
GSM1900	512	0	30~1000MHz	789.28	-44.47	-13	PASS
GSM1900	512	0	1000~18000MHz	17037.23	-21.84	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-52.2	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-41.2	-23	PASS
GSM1900	661	0	30~1000MHz	646.53	-45.62	-13	PASS
GSM1900	661	0	1000~18000MHz	16972.63	-21.68	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.38	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-38.91	-23	PASS
GSM1900	810	0	30~1000MHz	864.2	-44.84	-13	PASS
GSM1900	810	0	1000~18000MHz	17097.3	-21.28	-13	PASS

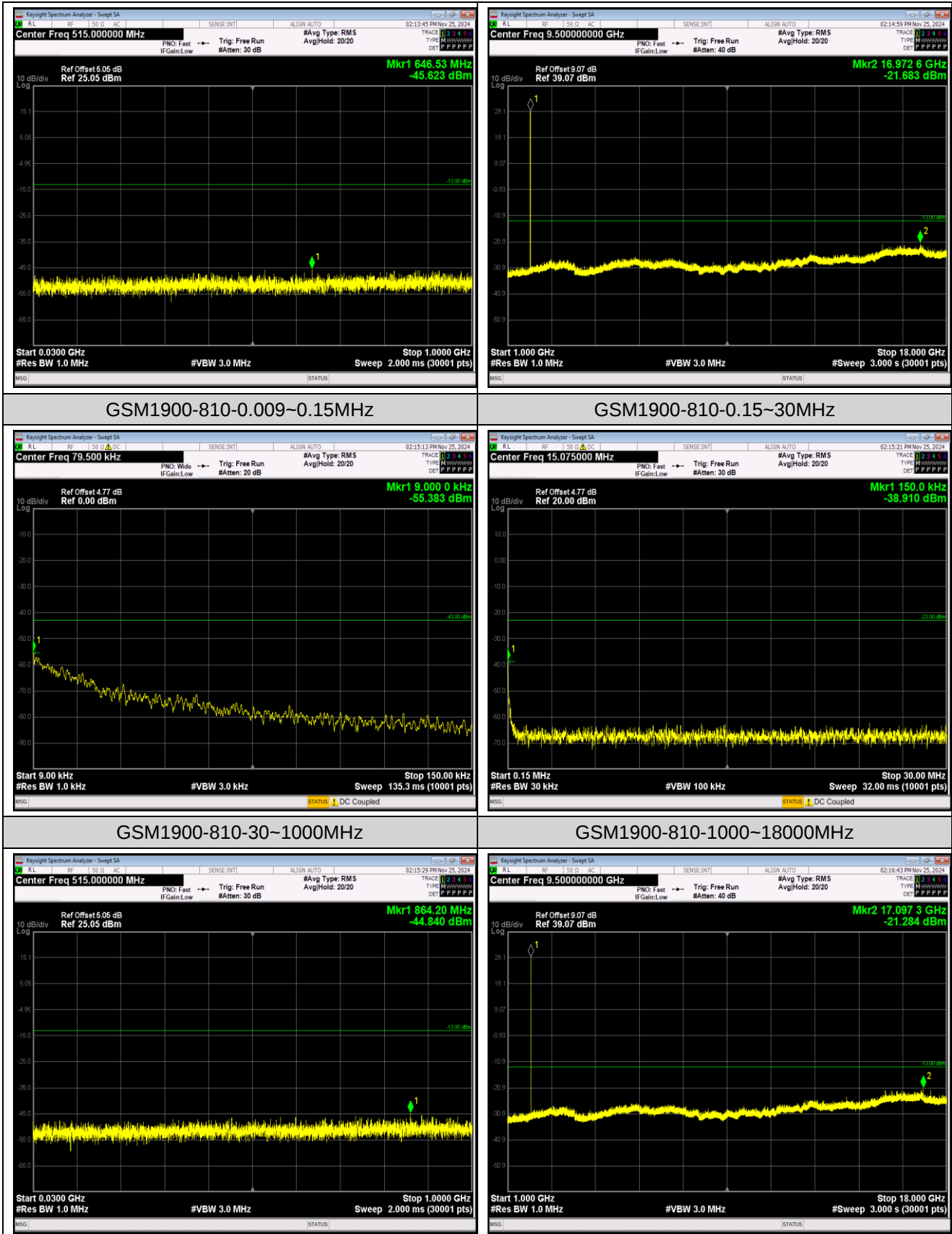
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.70	-30	7.14	0.008535	±2.5	Pass
	-20	4.97	0.005941		
	-10	-2.62	-0.003132		
	0	-2.97	-0.003550		
	10	-4.49	-0.005367		
	20	3.26	0.003897		
	30	4.20	0.005020		
	40	5.10	0.006096		
	50	3.58	0.004279		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.94	0.003514	±2.5	Pass
	3.70	4.68	0.005594		
	4.20	3.52	0.004208		
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		
3.70	-30	0.65	0.000346	Within authorized band for PCS 1900	Pass
	-20	4.20	0.002234		
	-10	-0.45	-0.000239		
	0	12.95	0.006888		
	10	10.82	0.005755		
	20	3.20	0.001702		
	30	0.77	0.000410		
	40	20.15	0.010718		
	50	-1.74	-0.000926		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.16	0.000617	Within authorized band for PCS 1900	Pass
	3.70	0.71	0.000378		
	4.20	-1.07	-0.000569		
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

