

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	33.59	22.04	38.45	PASS
GSM850	190	5	33.50	21.95	38.45	PASS
GSM850	251	5	33.53	21.98	38.45	PASS
GSM1900	512	0	30.36	28.06	33.00	PASS
GSM1900	661	0	30.28	27.98	33.00	PASS
GSM1900	810	0	30.22	27.92	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.54	21.99	38.45	PASS
GPRS850	128	5	2	32.03	20.48	38.45	PASS
GPRS850	128	5	3	29.99	18.44	38.45	PASS
GPRS850	128	5	4	27.93	16.38	38.45	PASS
GPRS850	190	5	1	33.45	21.9	38.45	PASS
GPRS850	190	5	2	31.99	20.44	38.45	PASS
GPRS850	190	5	3	29.89	18.34	38.45	PASS
GPRS850	190	5	4	27.80	16.25	38.45	PASS
GPRS850	251	5	1	33.45	21.9	38.45	PASS
GPRS850	251	5	2	32.07	20.52	38.45	PASS
GPRS850	251	5	3	29.95	18.4	38.45	PASS
GPRS850	251	5	4	27.88	16.33	38.45	PASS
GPRS1900	512	0	1	30.43	28.13	33.00	PASS
GPRS1900	512	0	2	27.97	25.67	33.00	PASS
GPRS1900	512	0	3	26.36	24.06	33.00	PASS
GPRS1900	512	0	4	24.27	21.97	33.00	PASS
GPRS1900	661	0	1	30.30	28	33.00	PASS
GPRS1900	661	0	2	27.92	25.62	33.00	PASS
GPRS1900	661	0	3	26.31	24.01	33.00	PASS
GPRS1900	661	0	4	24.16	21.86	33.00	PASS
GPRS1900	810	0	1	30.24	27.94	33.00	PASS
GPRS1900	810	0	2	27.71	25.41	33.00	PASS
GPRS1900	810	0	3	26.07	23.77	33.00	PASS
GPRS1900	810	0	4	23.96	21.66	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	2.99	13	PASS
GSM1900	661	0	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

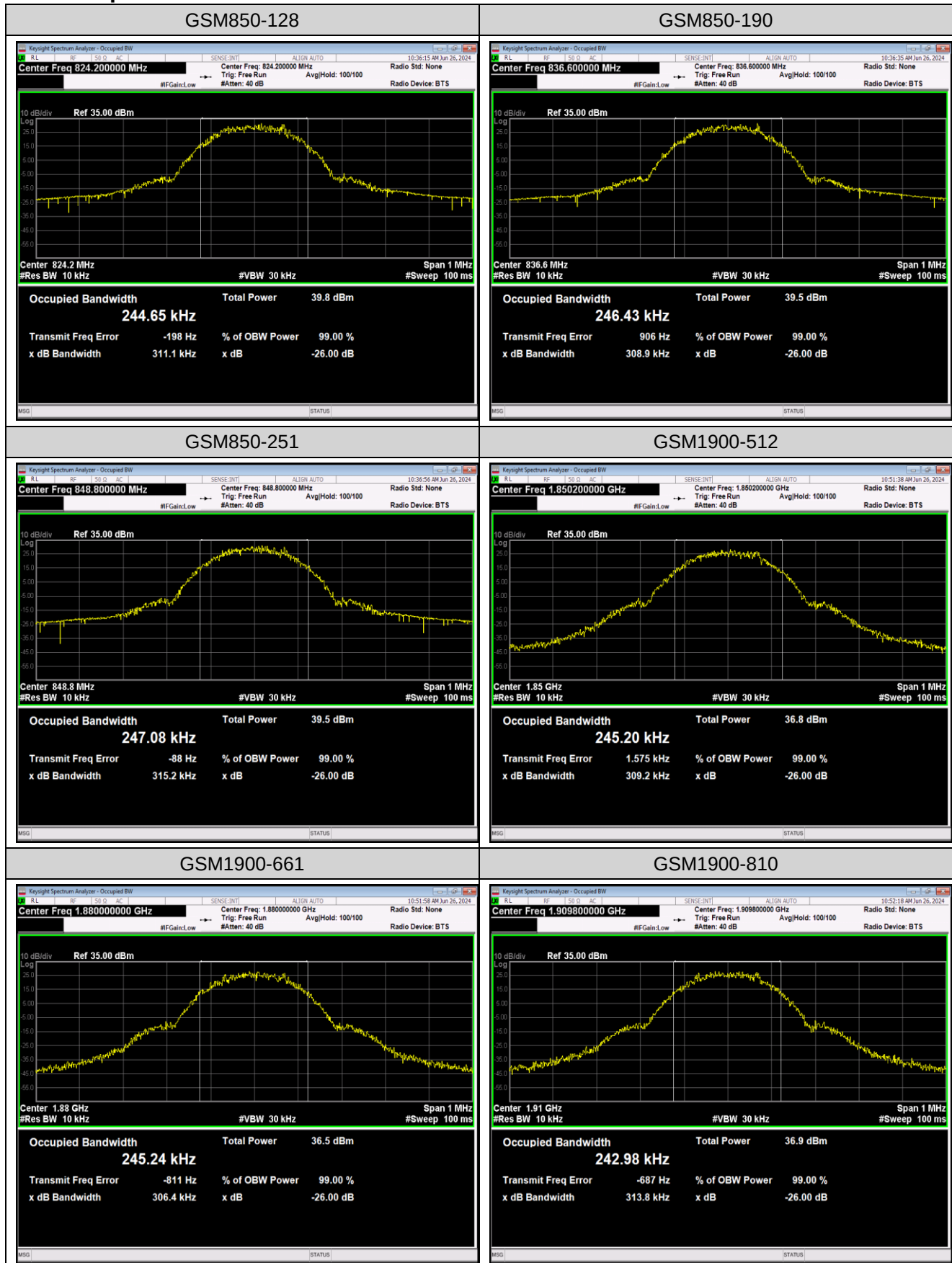


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24465	0.3111	---	PASS
GSM850	190	5	0.24643	0.3089	---	PASS
GSM850	251	5	0.24708	0.3152	---	PASS
GSM1900	512	0	0.24520	0.3092	---	PASS
GSM1900	661	0	0.24524	0.3064	---	PASS
GSM1900	810	0	0.24298	0.3138	---	PASS

Test Graphs

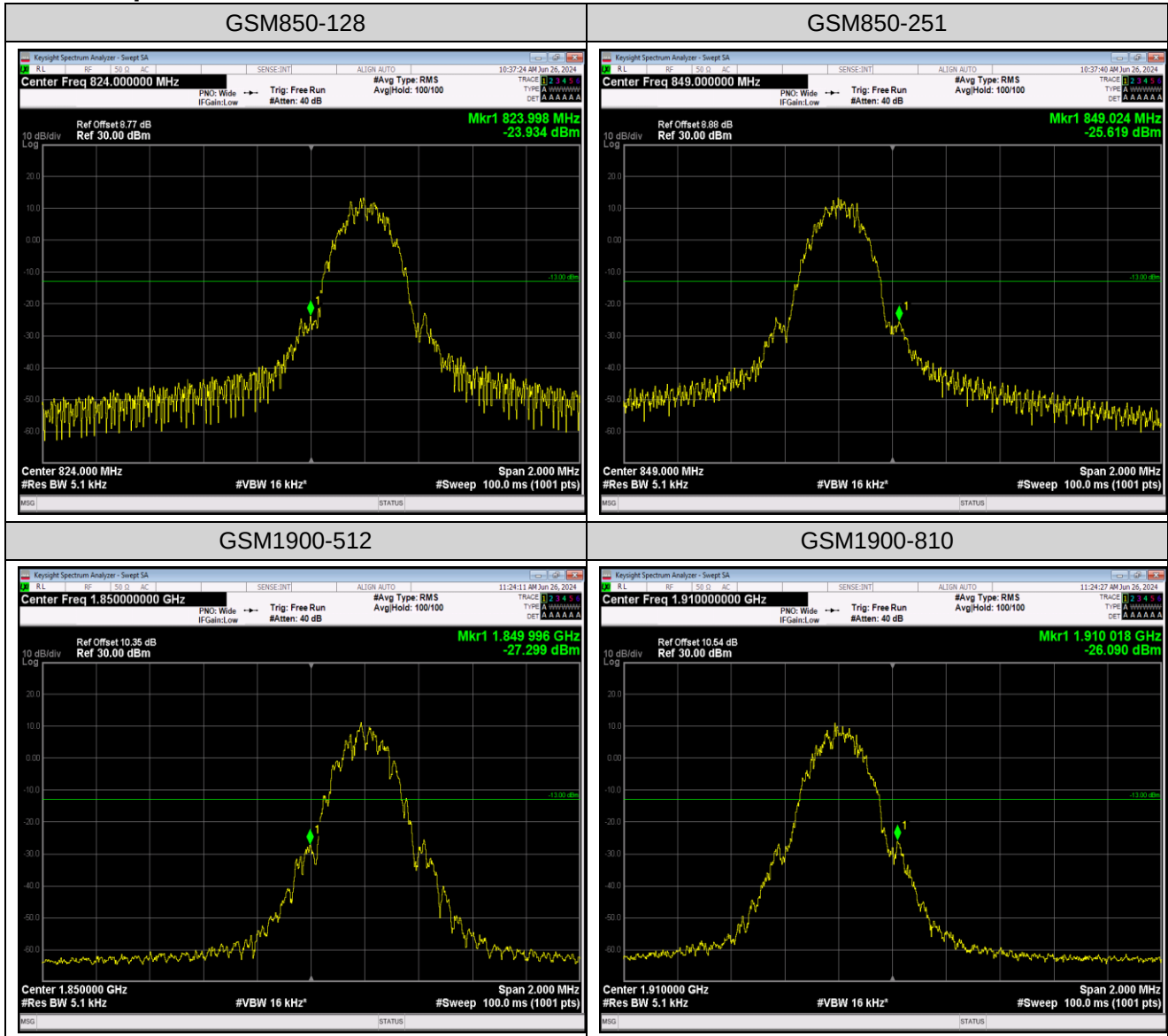


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.93	-13	PASS
GSM850	251	5	849.02	-25.62	-13	PASS
GSM1900	512	0	1850.00	-27.30	-13	PASS
GSM1900	810	0	1910.02	-26.09	-13	PASS

Test Graphs



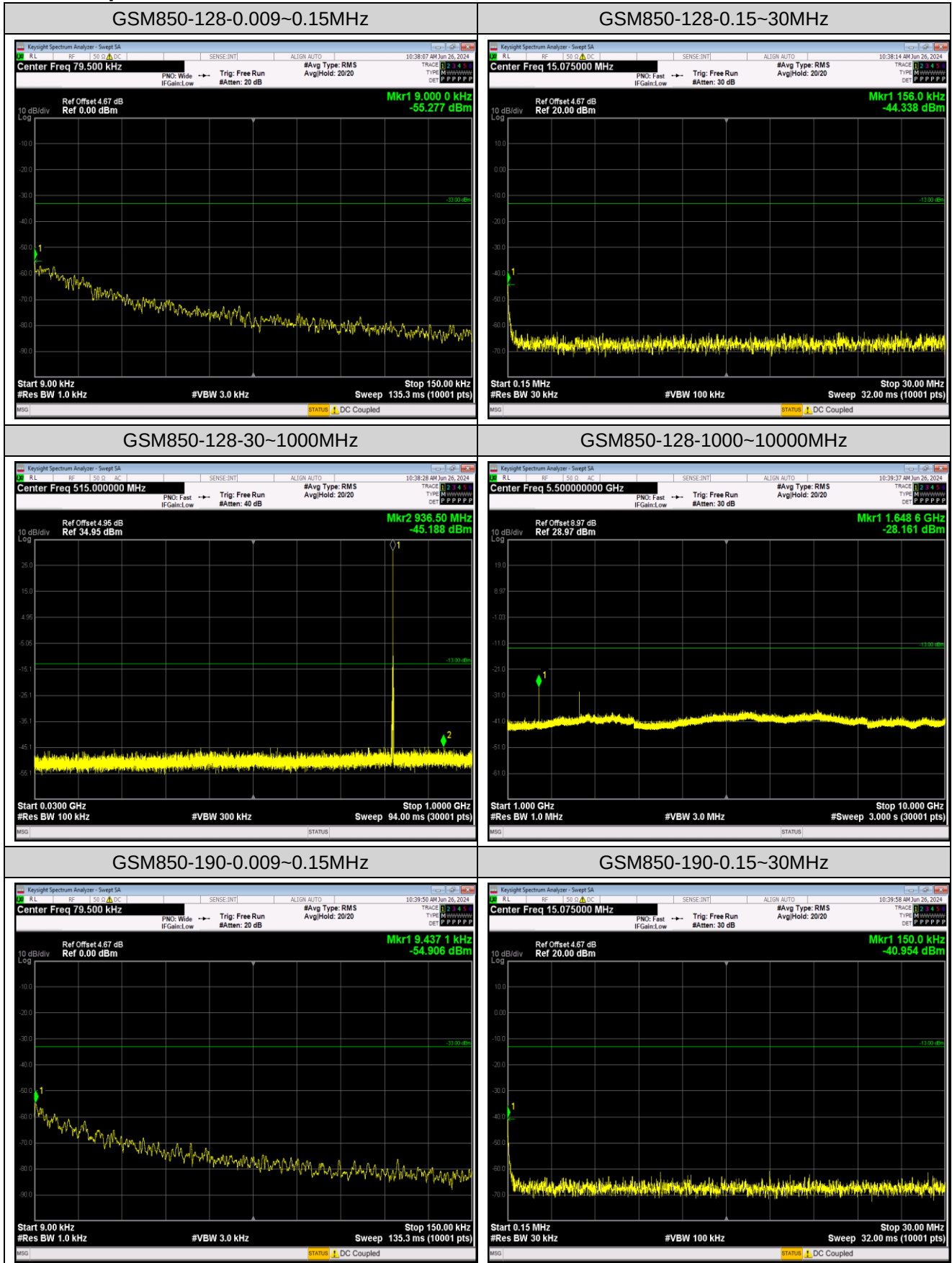
Appendix E: Conducted Spurious Emission

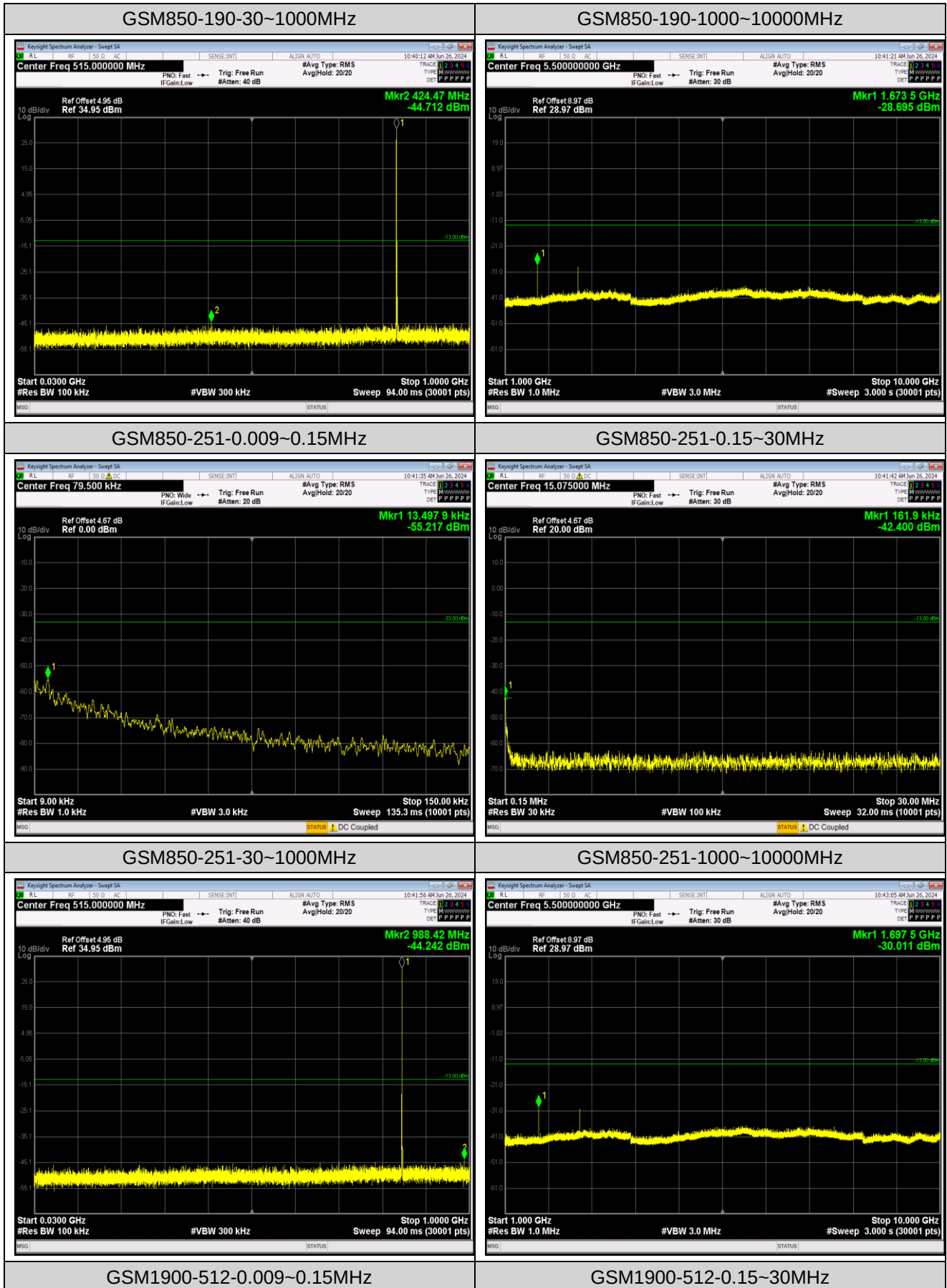
Test Result

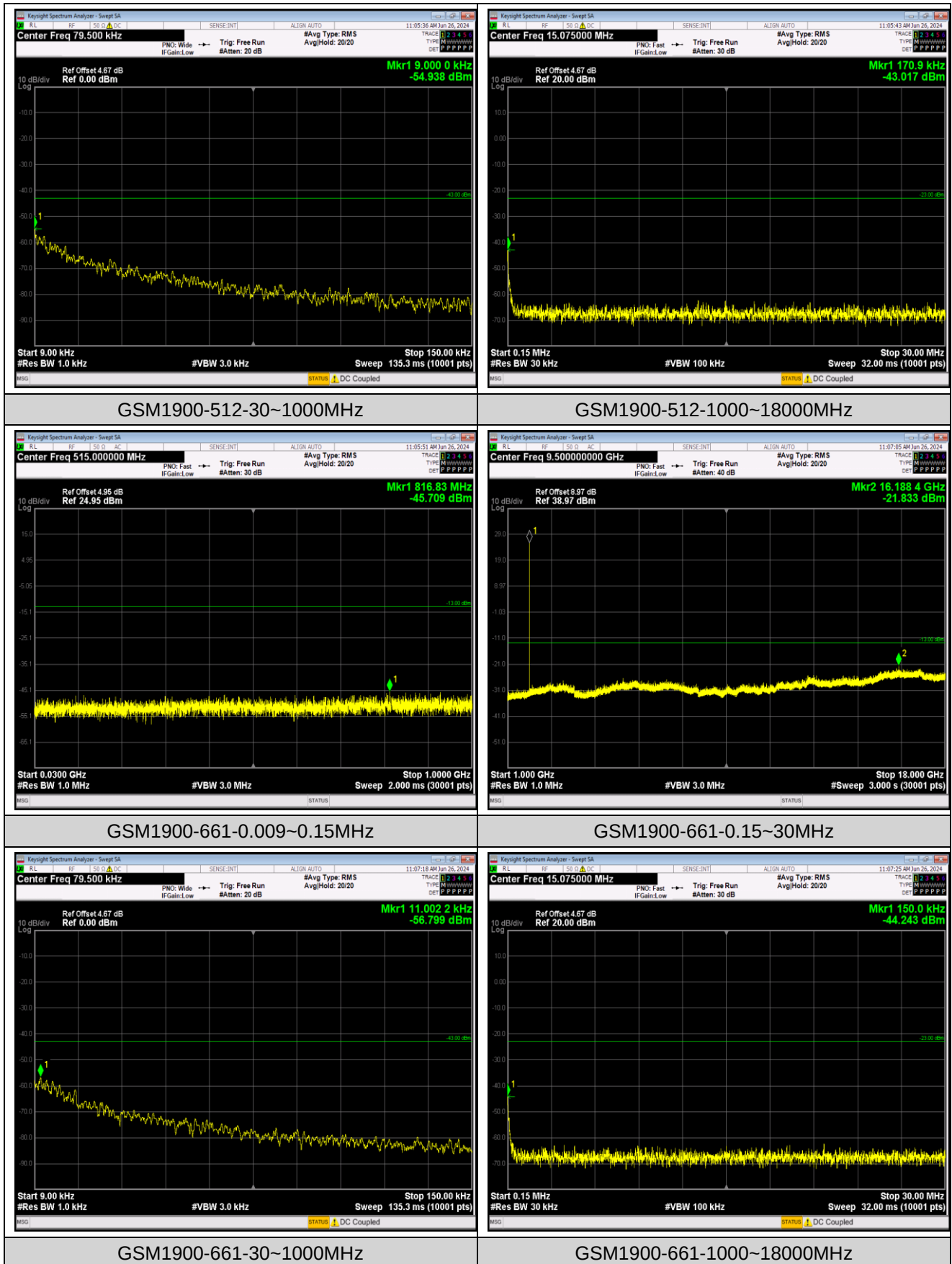
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.28	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-44.34	-13	PASS
GSM850	128	5	30~1000MHz	936.5	-45.19	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-28.16	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.91	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-40.95	-13	PASS
GSM850	190	5	30~1000MHz	424.47	-44.71	-13	PASS
GSM850	190	5	1000~10000MHz	1673.5	-28.7	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.22	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-42.4	-13	PASS
GSM850	251	5	30~1000MHz	988.42	-44.24	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-30.01	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.94	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-43.02	-23	PASS
GSM1900	512	0	30~1000MHz	816.83	-45.71	-13	PASS
GSM1900	512	0	1000~18000MHz	16188.37	-21.83	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.8	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-44.24	-23	PASS
GSM1900	661	0	30~1000MHz	781.17	-45.97	-13	PASS
GSM1900	661	0	1000~18000MHz	17091.07	-21.96	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.16	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-44.75	-23	PASS
GSM1900	810	0	30~1000MHz	894.5	-43.99	-13	PASS
GSM1900	810	0	1000~18000MHz	17053.1	-22.49	-13	PASS

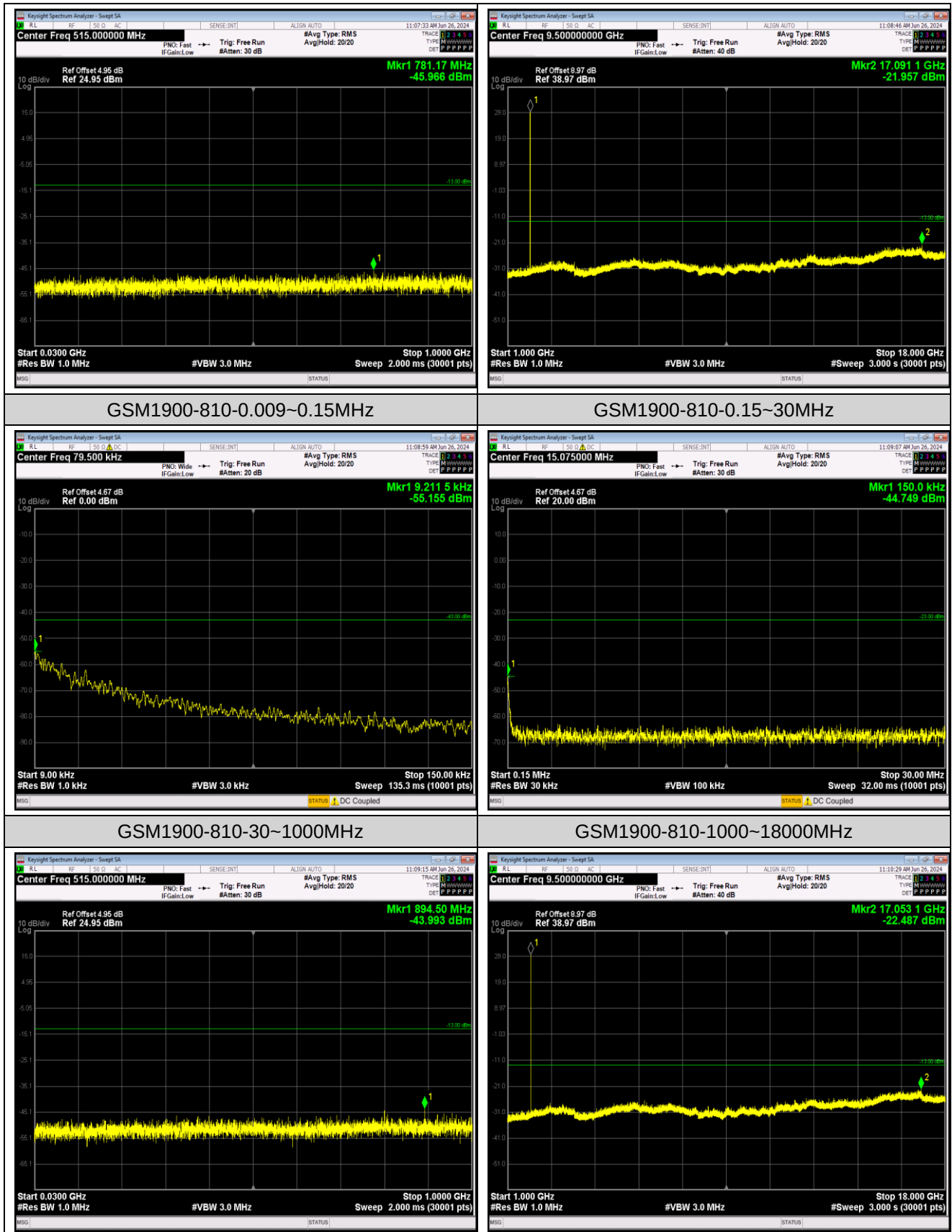
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	-5.78	-0.006909	±2.5	Pass
	-20	-8.98	-0.010734		
	-10	-3.10	-0.003705		
	0	-7.88	-0.009419		
	10	6.30	0.007530		
	20	1.84	0.002199		
	30	-0.55	-0.000657		
	40	1.94	0.002319		
	50	2.13	0.002546		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-5.42	-0.006479	±2.5	Pass
	3.85	-6.59	-0.007877		
	4.40	-7.17	-0.008570		
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	6.17	0.003282	Within authorized band for PCS 1900	Pass
	-20	11.72	0.006234		
	-10	6.59	0.003505		
	0	-5.29	-0.002814		
	10	0.32	0.000170		
	20	-0.90	-0.000479		
	30	-3.58	-0.001904		
	40	-1.29	-0.000686		
	50	-1.13	-0.000601		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	13.43	0.007144	Within authorized band for PCS 1900	Pass
	3.85	13.33	0.007090		
	4.40	-3.68	-0.001957		
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

