

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	32.82	30.78	38.45	PASS
GSM850	190	5	32.88	30.84	38.45	PASS
GSM850	251	5	32.68	30.64	38.45	PASS
GSM1900	512	0	29.55	29.98	33.00	PASS
GSM1900	661	0	29.41	29.84	33.00	PASS
GSM1900	810	0	29.17	29.6	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.88	30.84	38.45	PASS
GPRS850	128	5	2	30.68	28.64	38.45	PASS
GPRS850	128	5	3	28.71	26.67	38.45	PASS
GPRS850	128	5	4	26.44	24.4	38.45	PASS
GPRS850	190	5	1	32.91	30.87	38.45	PASS
GPRS850	190	5	2	30.67	28.63	38.45	PASS
GPRS850	190	5	3	28.70	26.66	38.45	PASS
GPRS850	190	5	4	26.47	24.43	38.45	PASS
GPRS850	251	5	1	32.73	30.69	38.45	PASS
GPRS850	251	5	2	30.51	28.47	38.45	PASS
GPRS850	251	5	3	28.57	26.53	38.45	PASS
GPRS850	251	5	4	26.38	24.34	38.45	PASS
GPRS1900	512	0	1	29.58	30.01	33.00	PASS
GPRS1900	512	0	2	27.25	27.68	33.00	PASS
GPRS1900	512	0	3	25.62	26.05	33.00	PASS
GPRS1900	512	0	4	23.51	23.94	33.00	PASS
GPRS1900	661	0	1	29.43	29.86	33.00	PASS
GPRS1900	661	0	2	27.07	27.5	33.00	PASS
GPRS1900	661	0	3	25.43	25.86	33.00	PASS
GPRS1900	661	0	4	23.31	23.74	33.00	PASS
GPRS1900	810	0	1	29.21	29.64	33.00	PASS
GPRS1900	810	0	2	26.81	27.24	33.00	PASS
GPRS1900	810	0	3	25.16	25.59	33.00	PASS
GPRS1900	810	0	4	23.00	23.43	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	2.6	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

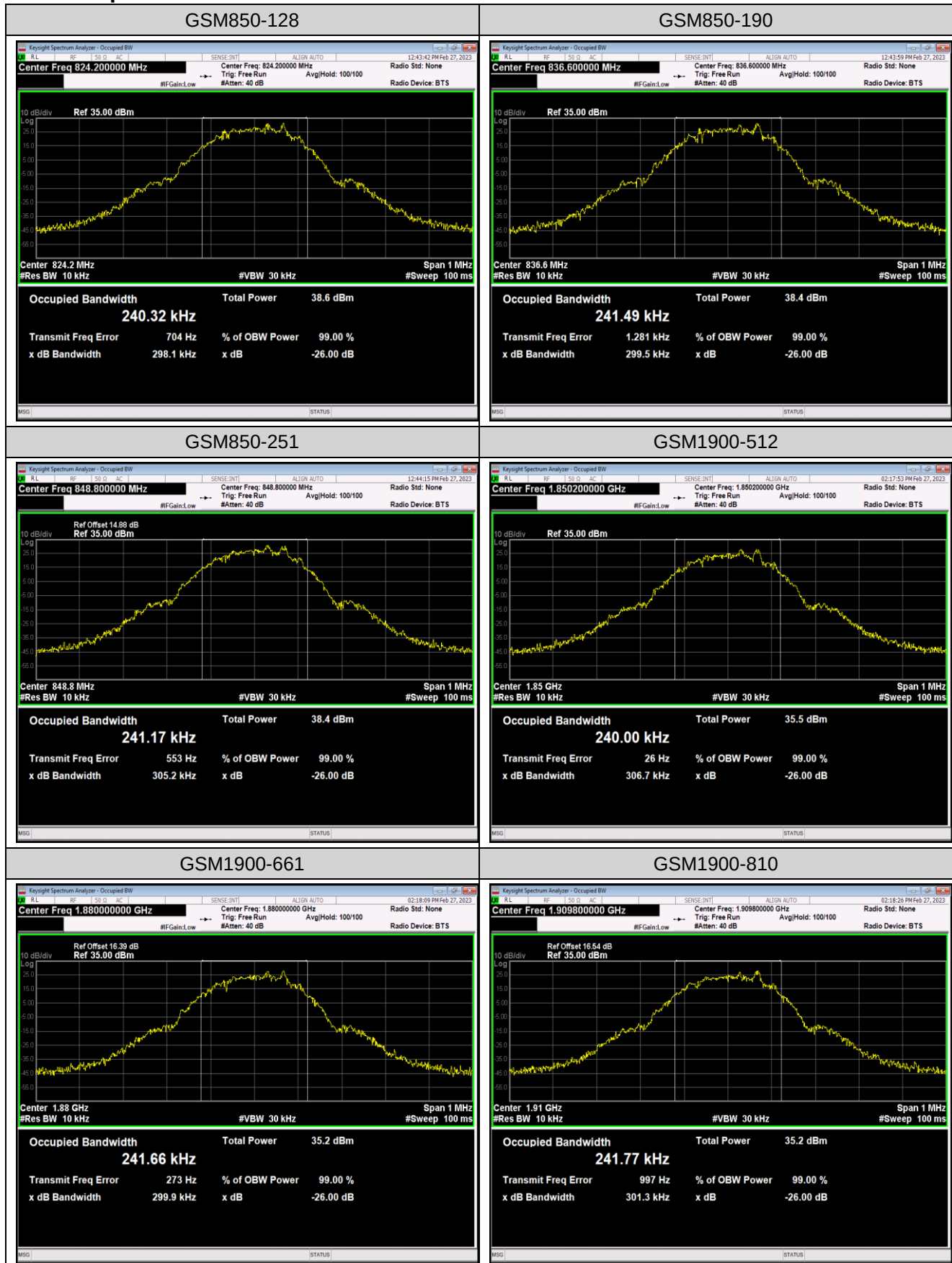


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24032	0.2981	---	PASS
GSM850	190	5	0.24149	0.2995	---	PASS
GSM850	251	5	0.24117	0.3052	---	PASS
GSM1900	512	0	0.24000	0.3067	---	PASS
GSM1900	661	0	0.24166	0.2999	---	PASS
GSM1900	810	0	0.24177	0.3013	---	PASS

Test Graphs

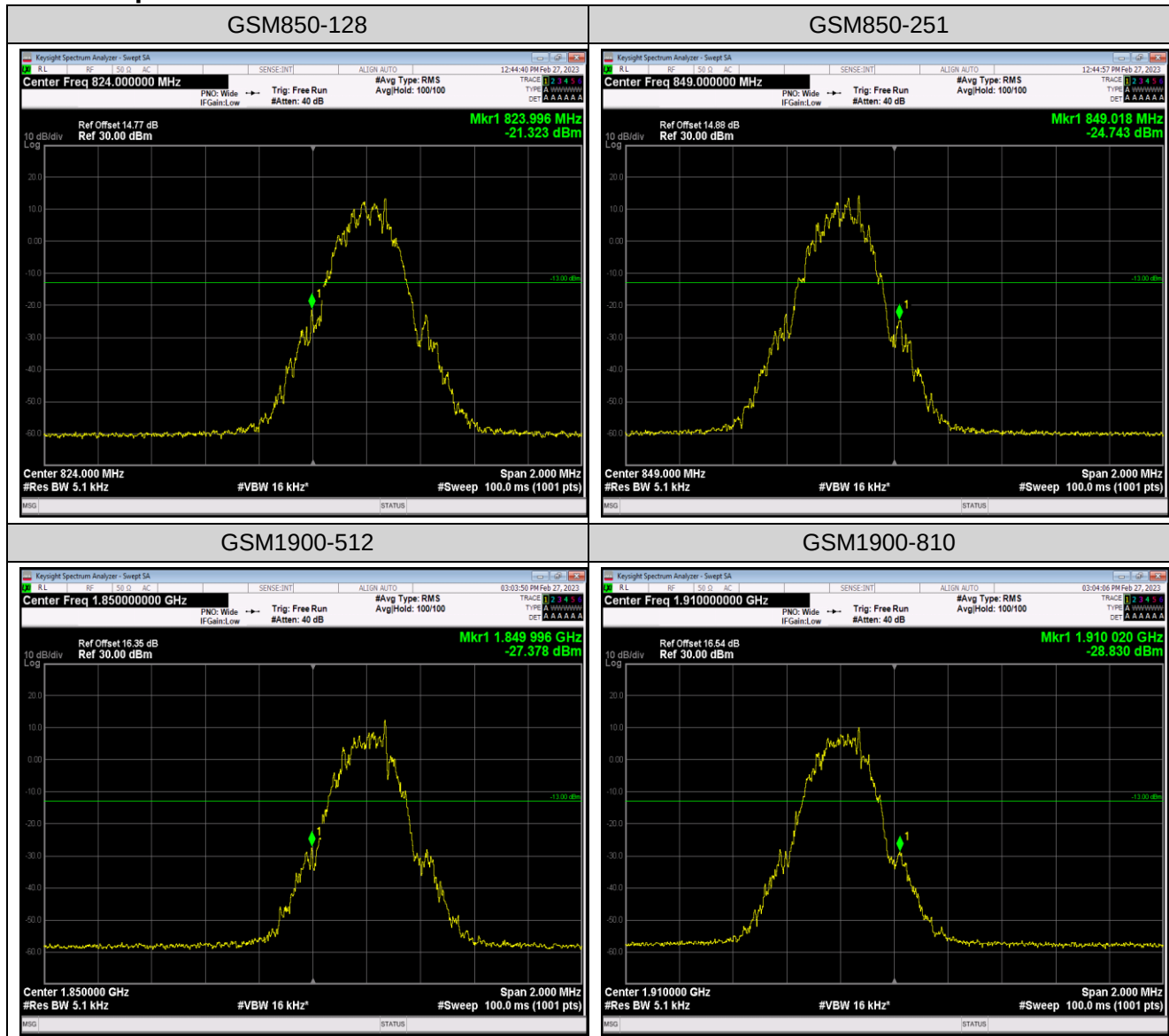


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-21.32	-13	PASS
GSM850	251	5	849.02	-24.74	-13	PASS
GSM1900	512	0	1850.00	-27.38	-13	PASS
GSM1900	810	0	1910.02	-28.83	-13	PASS

Test Graphs



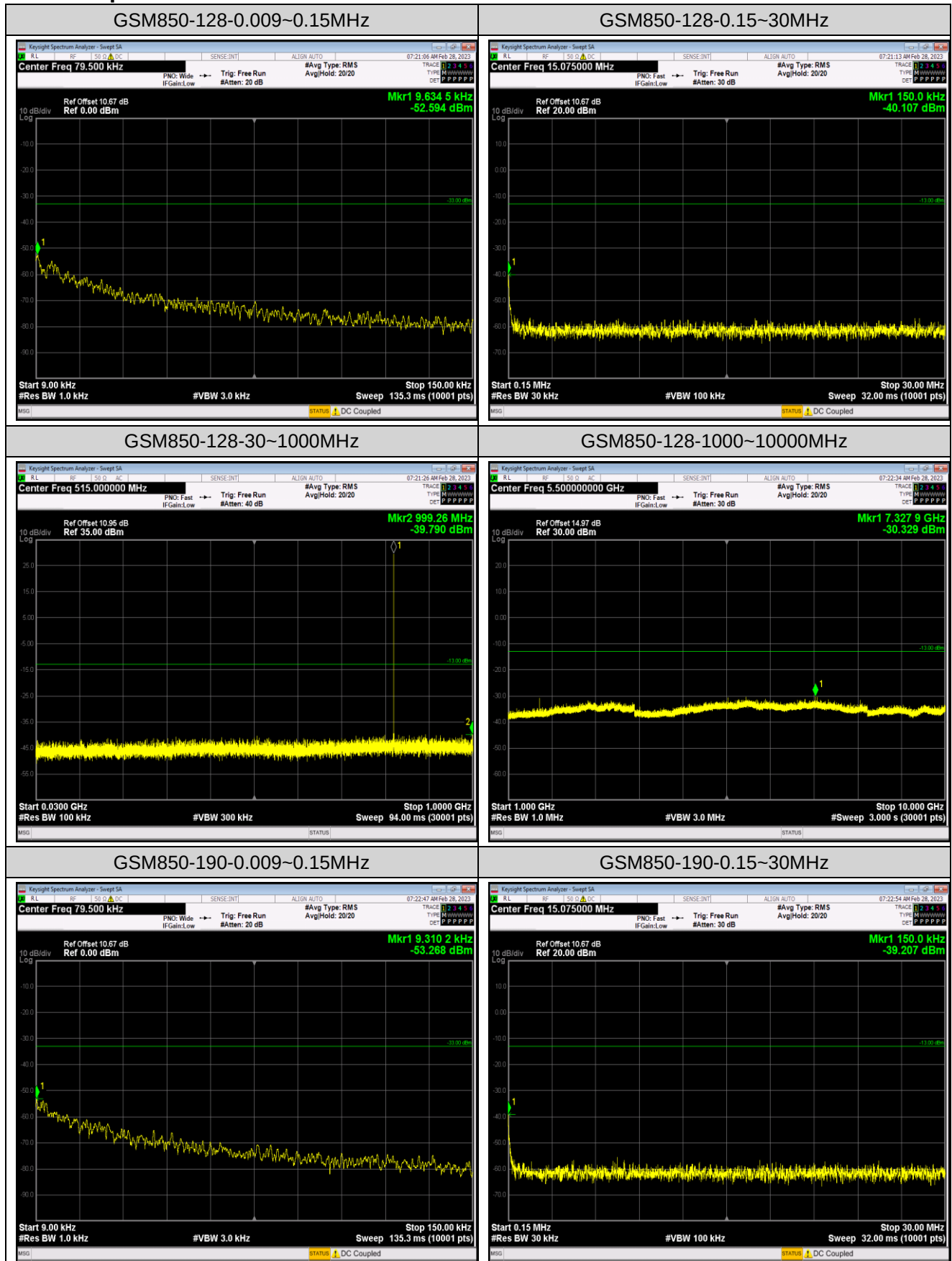
Appendix E: Conducted Spurious Emission

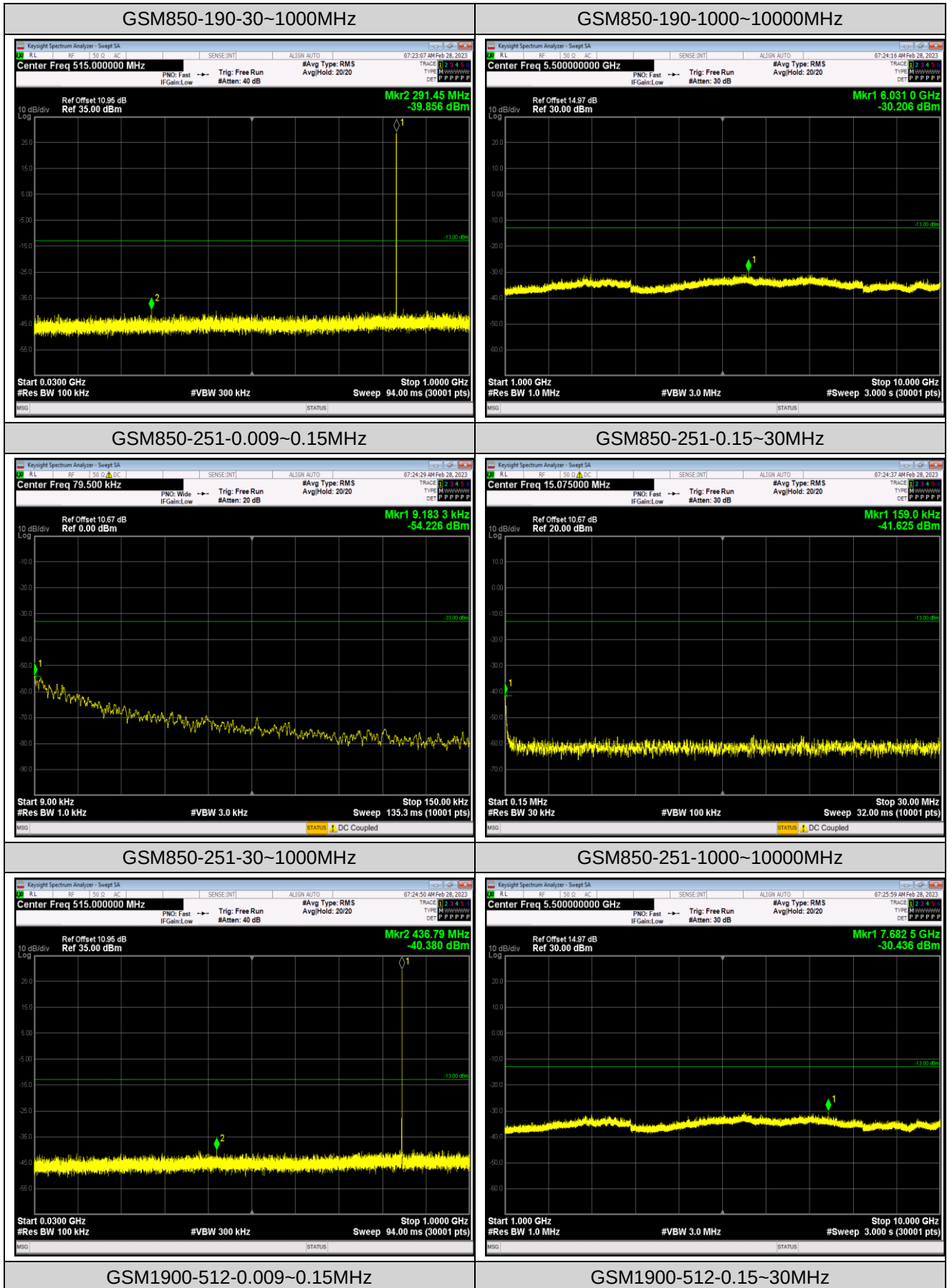
Test Result

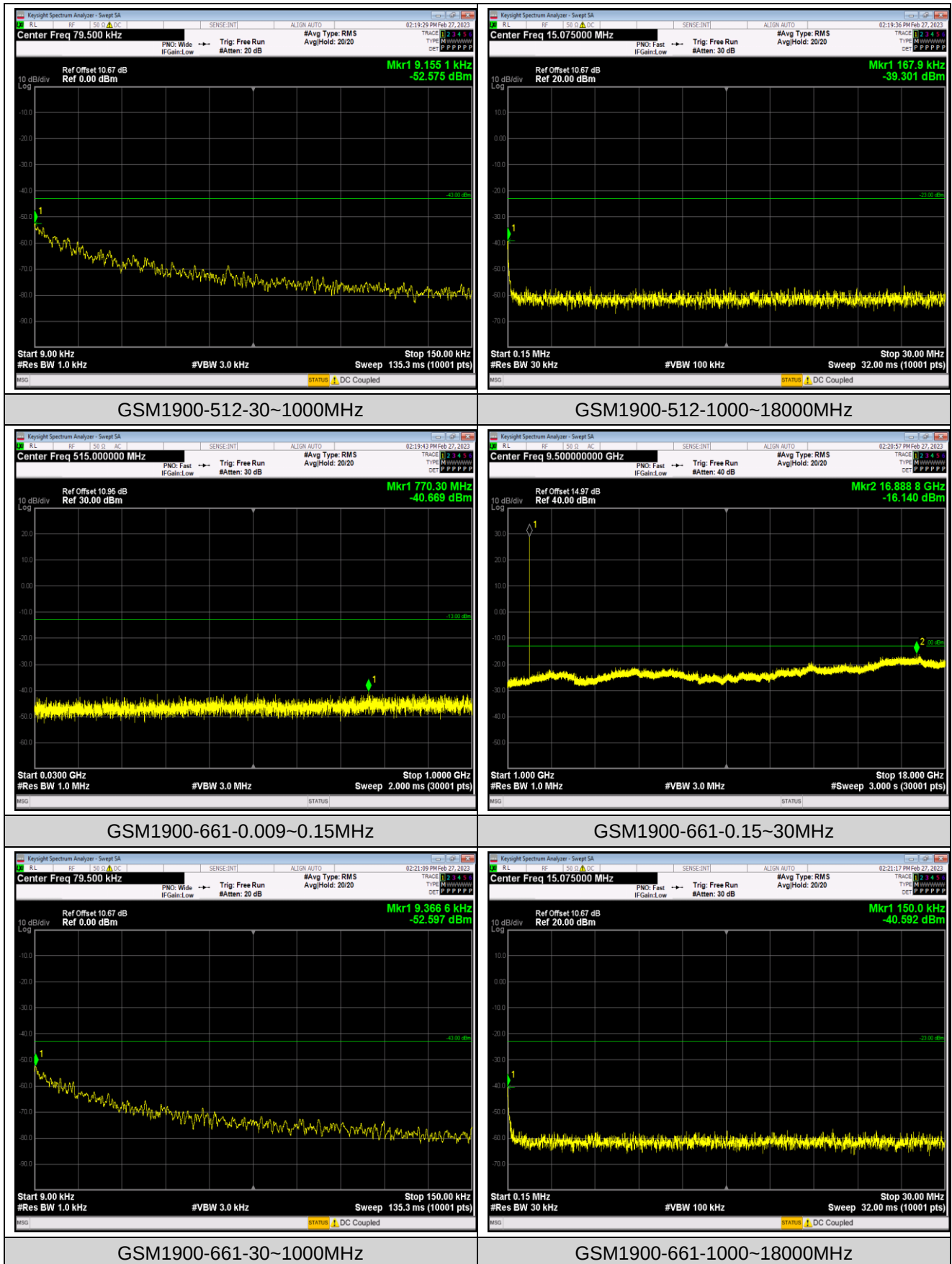
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-52.59	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-40.11	-13	PASS
GSM850	128	5	30~1000MHz	999.26	-39.79	-13	PASS
GSM850	128	5	1000~10000MHz	7327.9	-30.33	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-53.27	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-39.21	-13	PASS
GSM850	190	5	30~1000MHz	291.45	-39.86	-13	PASS
GSM850	190	5	1000~10000MHz	6031	-30.21	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.23	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-41.63	-13	PASS
GSM850	251	5	30~1000MHz	436.79	-40.38	-13	PASS
GSM850	251	5	1000~10000MHz	7682.5	-30.44	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-52.58	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-39.3	-23	PASS
GSM1900	512	0	30~1000MHz	770.3	-40.67	-13	PASS
GSM1900	512	0	1000~18000MHz	16888.77	-16.14	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-52.6	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-40.59	-23	PASS
GSM1900	661	0	30~1000MHz	931.84	-39.96	-13	PASS
GSM1900	661	0	1000~18000MHz	16334.57	-16.77	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-52.24	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.99	-23	PASS
GSM1900	810	0	30~1000MHz	742.89	-39.4	-13	PASS
GSM1900	810	0	1000~18000MHz	17093.33	-16.13	-13	PASS

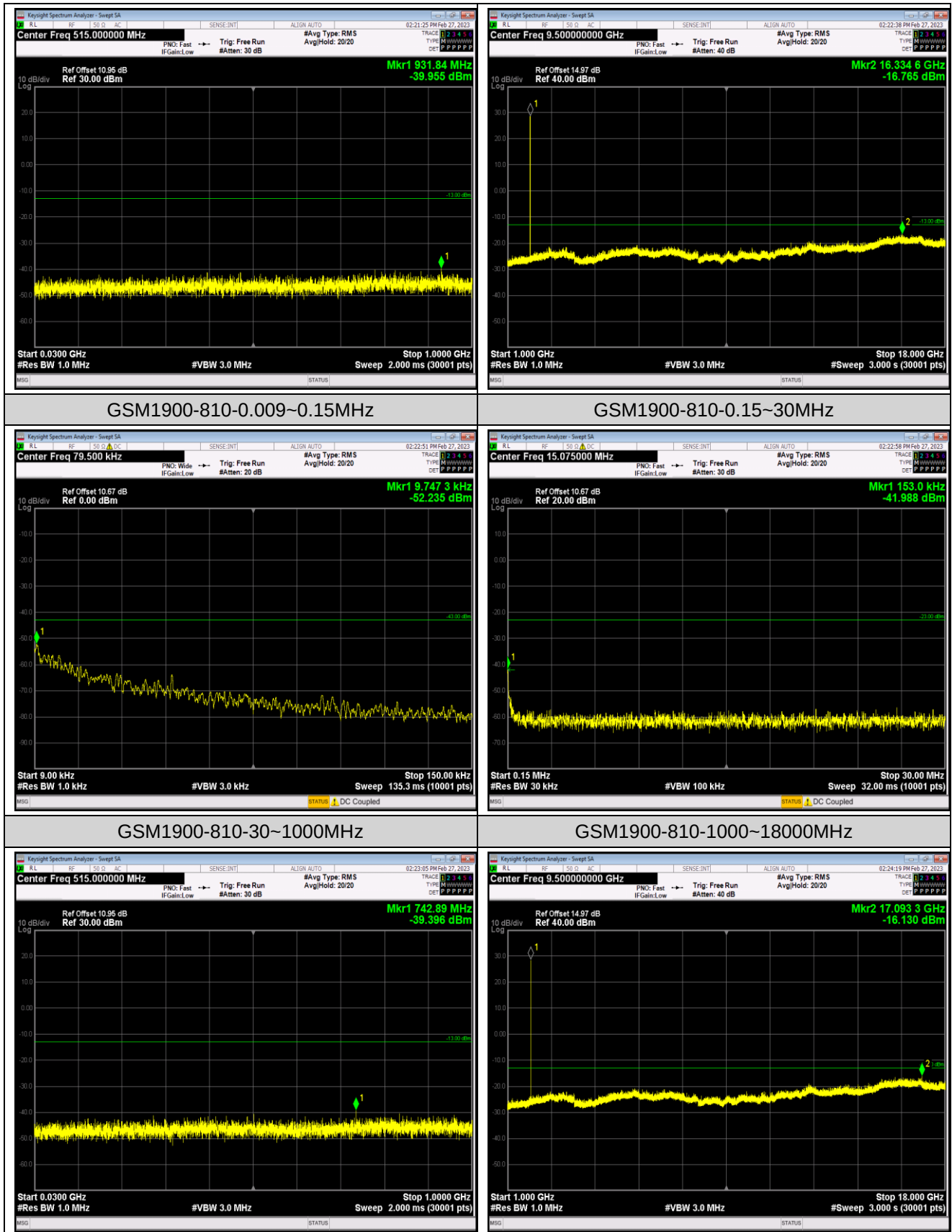
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	5.46	0.006526	±2.5	Pass
	-20	5.62	0.006718		
	-10	1.07	0.001279		
	0	1.39	0.001661		
	10	2.32	0.002773		
	20	-8.52	-0.010184		
	30	-7.20	-0.008606		
	40	0.13	0.000155		
	50	3.52	0.004208		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-7.55	-0.009025	±2.5	Pass
	3.70	-6.72	-0.008033		
	4.20	0.74	0.000885		
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	11.20	0.005957	Within authorized band for PCS 1900	Pass
	-20	8.85	0.004707		
	-10	-0.97	-0.000516		
	0	7.81	0.004154		
	10	10.78	0.005734		
	20	11.36	0.006043		
	30	10.43	0.005548		
	40	-0.65	-0.000346		
	50	-4.68	-0.002489		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	7.81	0.004154	Within authorized band for PCS 1900	Pass
	3.70	11.14	0.005926		
	4.20	8.30	0.004415		
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

