

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	32.71	28.43	38.45	PASS
GSM850	190	5	32.87	28.59	38.45	PASS
GSM850	251	5	32.78	28.5	38.45	PASS
GSM1900	512	0	28.59	29.31	33.00	PASS
GSM1900	661	0	28.87	29.59	33.00	PASS
GSM1900	810	0	29.13	29.85	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.70	28.42	38.45	PASS
GPRS850	128	5	2	30.48	26.2	38.45	PASS
GPRS850	128	5	3	28.57	24.29	38.45	PASS
GPRS850	128	5	4	26.44	22.16	38.45	PASS
GPRS850	190	5	1	32.88	28.6	38.45	PASS
GPRS850	190	5	2	30.70	26.42	38.45	PASS
GPRS850	190	5	3	28.86	24.58	38.45	PASS
GPRS850	190	5	4	26.77	22.49	38.45	PASS
GPRS850	251	5	1	32.79	28.51	38.45	PASS
GPRS850	251	5	2	30.74	26.46	38.45	PASS
GPRS850	251	5	3	28.92	24.64	38.45	PASS
GPRS850	251	5	4	26.85	22.57	38.45	PASS
GPRS1900	512	0	1	28.60	29.32	33.00	PASS
GPRS1900	512	0	2	26.21	26.93	33.00	PASS
GPRS1900	512	0	3	24.61	25.33	33.00	PASS
GPRS1900	512	0	4	22.64	23.36	33.00	PASS
GPRS1900	661	0	1	28.87	29.59	33.00	PASS
GPRS1900	661	0	2	26.49	27.21	33.00	PASS
GPRS1900	661	0	3	24.91	25.63	33.00	PASS
GPRS1900	661	0	4	22.95	23.67	33.00	PASS
GPRS1900	810	0	1	29.36	30.08	33.00	PASS
GPRS1900	810	0	2	26.56	27.28	33.00	PASS
GPRS1900	810	0	3	25.00	25.72	33.00	PASS
GPRS1900	810	0	4	23.07	23.79	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	25.05	20.77	38.45	PASS
EGPRS850	128	8	2	23.80	19.52	38.45	PASS
EGPRS850	128	8	3	21.75	17.47	38.45	PASS
EGPRS850	128	8	4	19.50	15.22	38.45	PASS
EGPRS850	190	8	1	25.80	21.52	38.45	PASS
EGPRS850	190	8	2	24.62	20.34	38.45	PASS
EGPRS850	190	8	3	22.58	18.3	38.45	PASS
EGPRS850	190	8	4	20.32	16.04	38.45	PASS
EGPRS850	251	8	1	25.73	21.45	38.45	PASS
EGPRS850	251	8	2	24.50	20.22	38.45	PASS
EGPRS850	251	8	3	22.50	18.22	38.45	PASS
EGPRS850	251	8	4	20.19	15.91	38.45	PASS
EGPRS1900	512	2	1	25.31	26.03	33.00	PASS
EGPRS1900	512	2	2	23.44	24.16	33.00	PASS
EGPRS1900	512	2	3	21.04	21.76	33.00	PASS
EGPRS1900	512	2	4	19.32	20.04	33.00	PASS
EGPRS1900	661	2	1	24.82	25.54	33.00	PASS
EGPRS1900	661	2	2	23.19	23.91	33.00	PASS
EGPRS1900	661	2	3	20.80	21.52	33.00	PASS
EGPRS1900	661	2	4	19.03	19.75	33.00	PASS
EGPRS1900	810	2	1	24.49	25.21	33.00	PASS
EGPRS1900	810	2	2	22.85	23.57	33.00	PASS
EGPRS1900	810	2	3	20.37	21.09	33.00	PASS
EGPRS1900	810	2	4	18.38	19.1	33.00	PASS

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

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

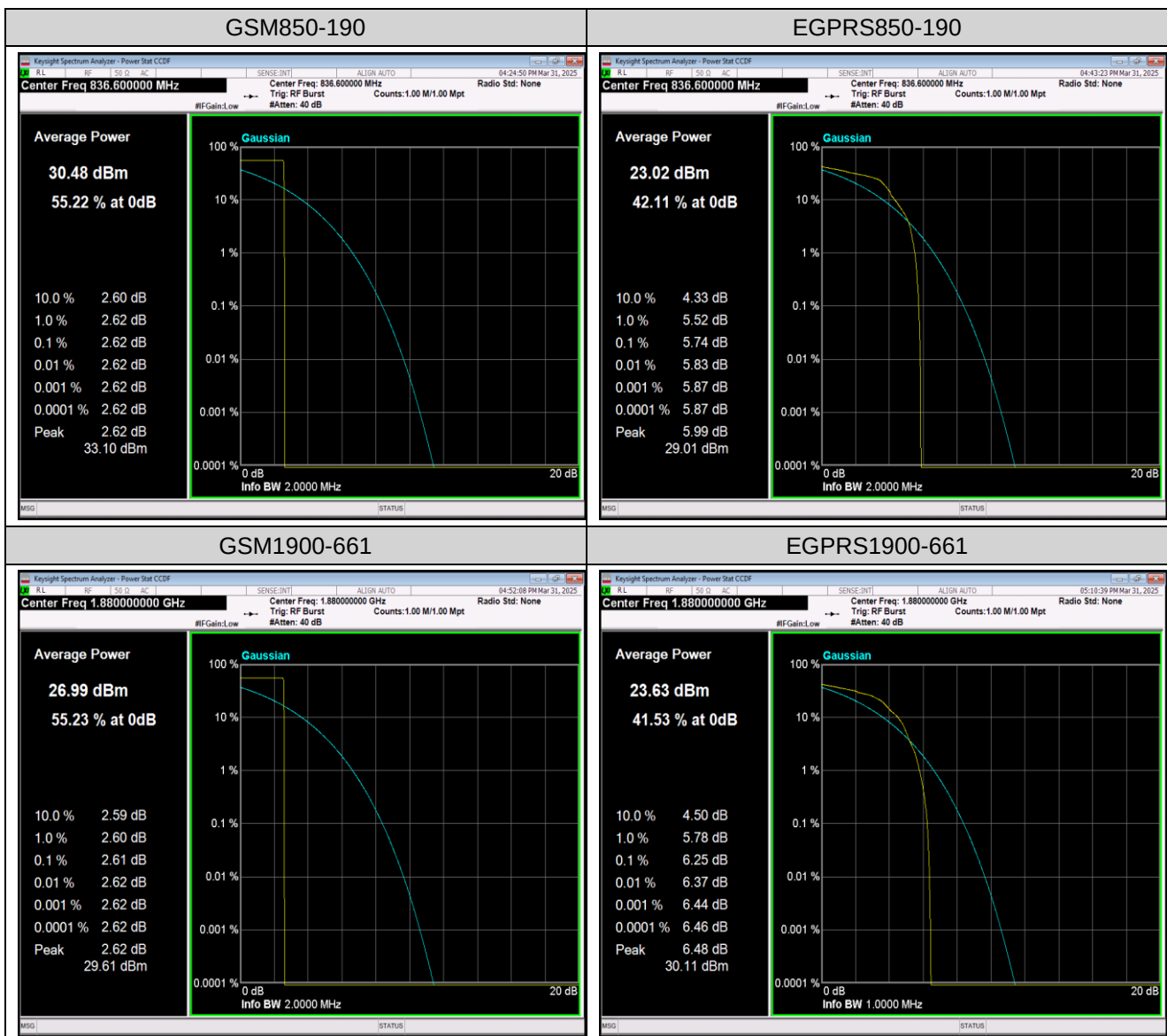
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.62	13	PASS
EGPRS850	190	8	5.74	13	PASS
GSM1900	661	0	2.61	13	PASS
EGPRS1900	661	2	6.25	13	PASS

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

Test Graphs

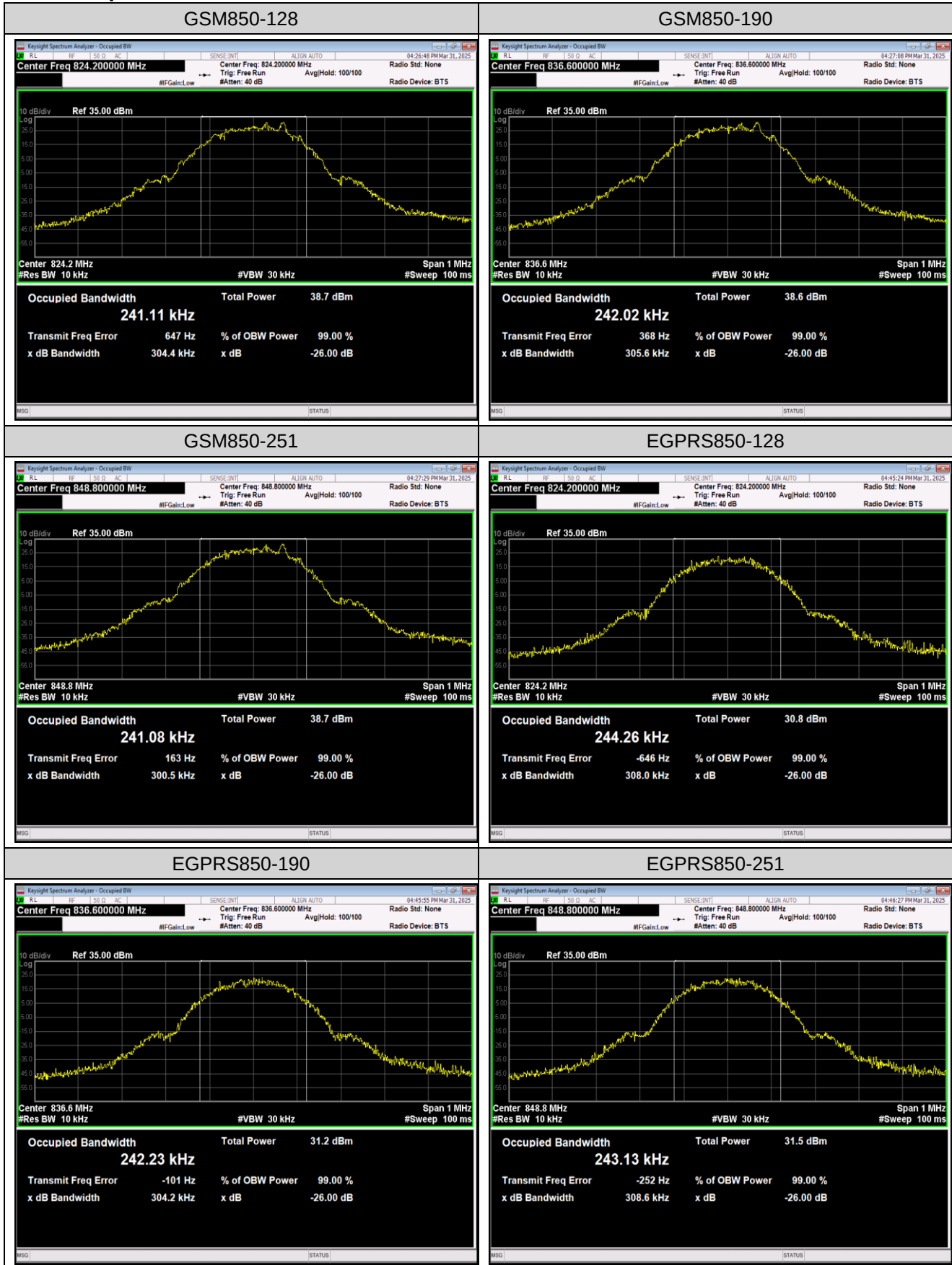


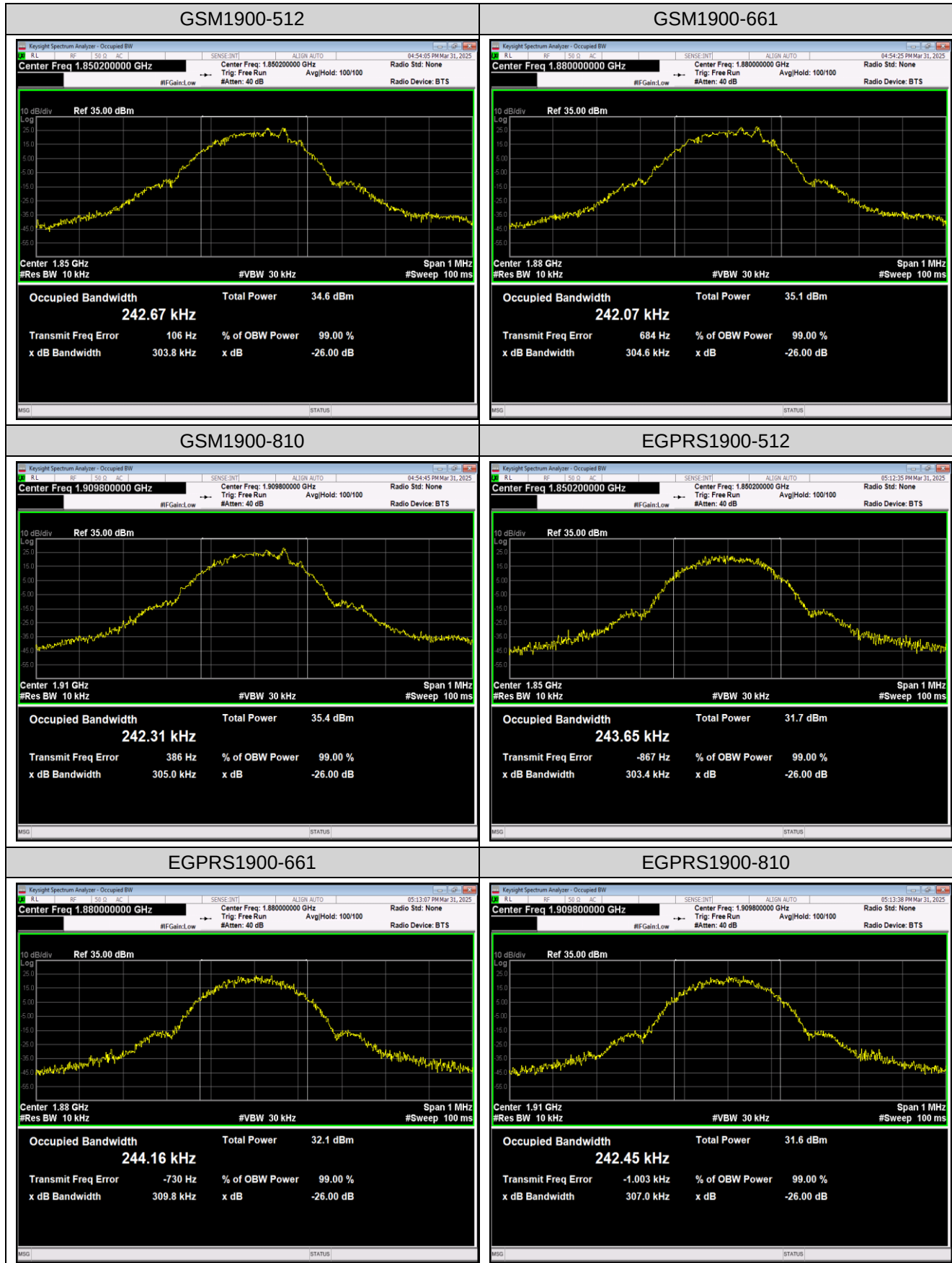
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24111	0.3044	---	PASS
GSM850	190	5	0.24202	0.3056	---	PASS
GSM850	251	5	0.24108	0.3005	---	PASS
EGPRS850	128	8	0.24426	0.3080	---	PASS
EGPRS850	190	8	0.24223	0.3042	---	PASS
EGPRS850	251	8	0.24313	0.3086	---	PASS
GSM1900	512	0	0.24267	0.3038	---	PASS
GSM1900	661	0	0.24207	0.3046	---	PASS
GSM1900	810	0	0.24231	0.3050	---	PASS
EGPRS1900	512	2	0.24365	0.3034	---	PASS
EGPRS1900	661	2	0.24416	0.3098	---	PASS
EGPRS1900	810	2	0.24245	0.3070	---	PASS

Test Graphs



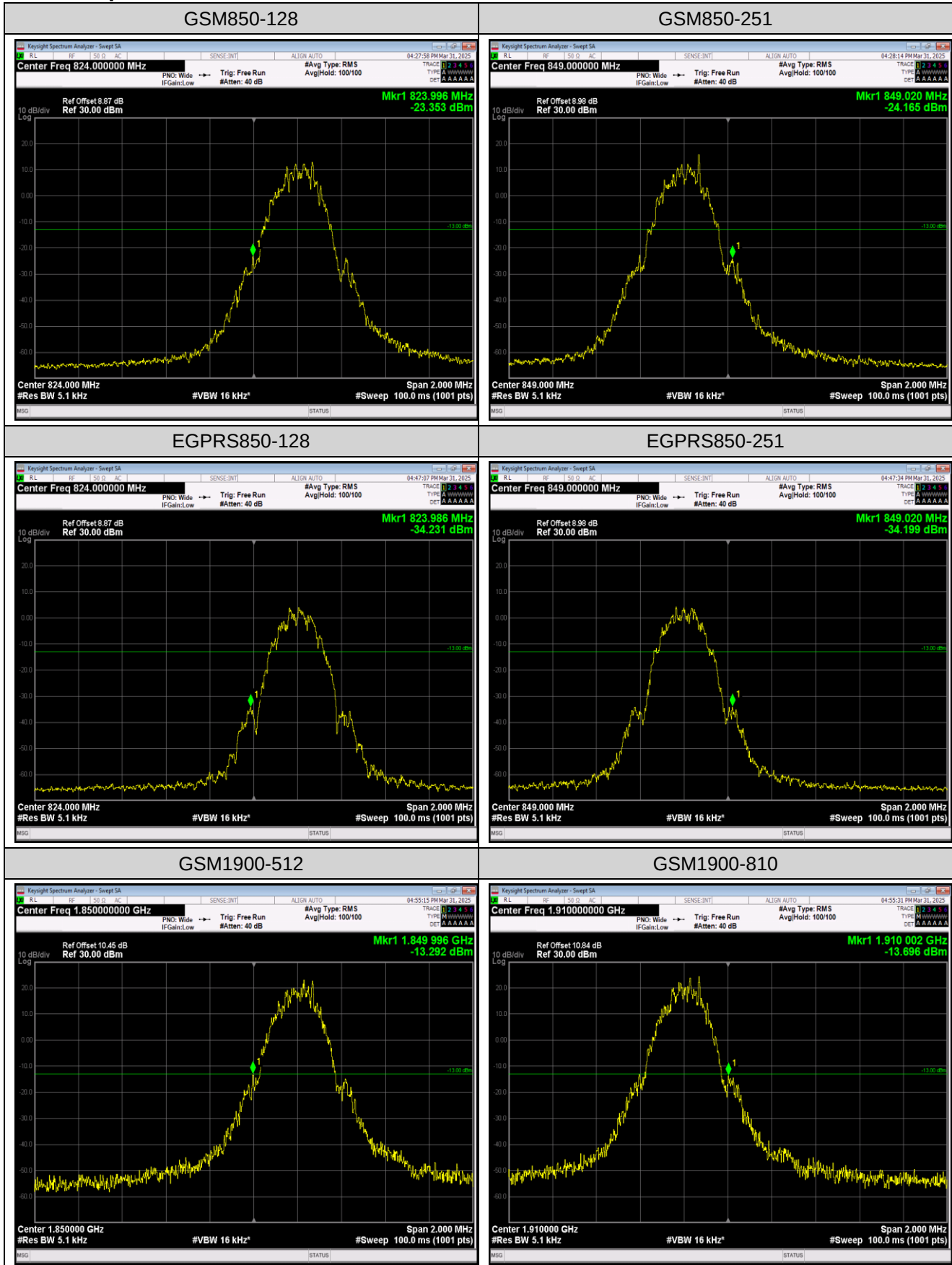


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.35	-13	PASS
GSM850	251	5	849.02	-24.16	-13	PASS
EGPRS850	128	8	823.99	-34.23	-13	PASS
EGPRS850	251	8	849.02	-34.20	-13	PASS
GSM1900	512	0	1850.00	-13.29	-13	PASS
GSM1900	810	0	1910.00	-13.70	-13	PASS
EGPRS1900	512	2	1849.98	-21.86	-13	PASS
EGPRS1900	810	2	1910.01	-19.78	-13	PASS

Test Graphs

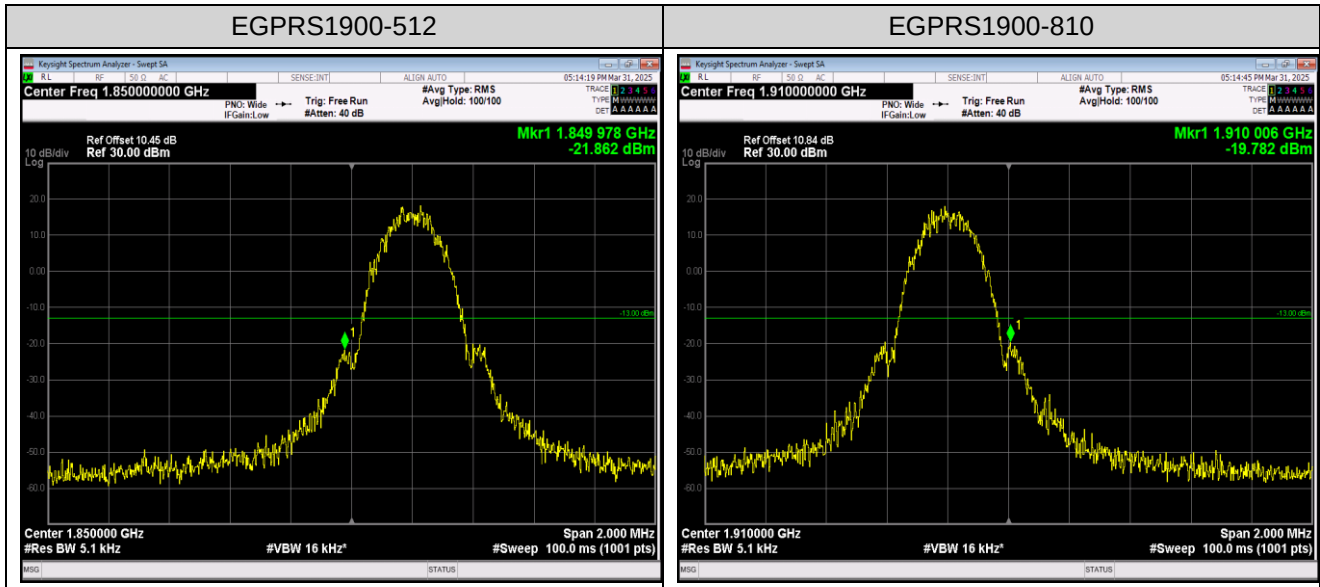


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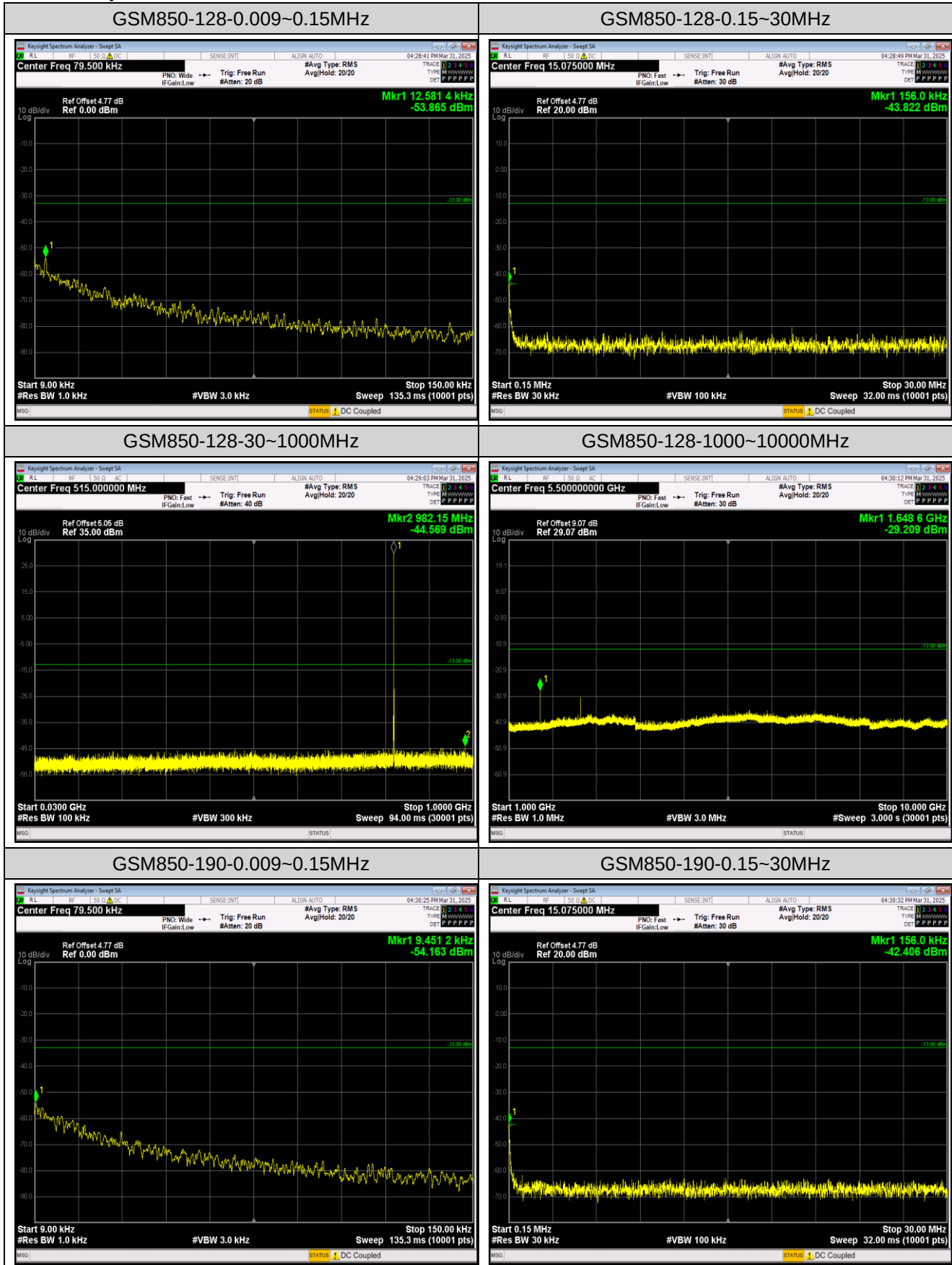
Appendix E: Conducted Spurious Emission

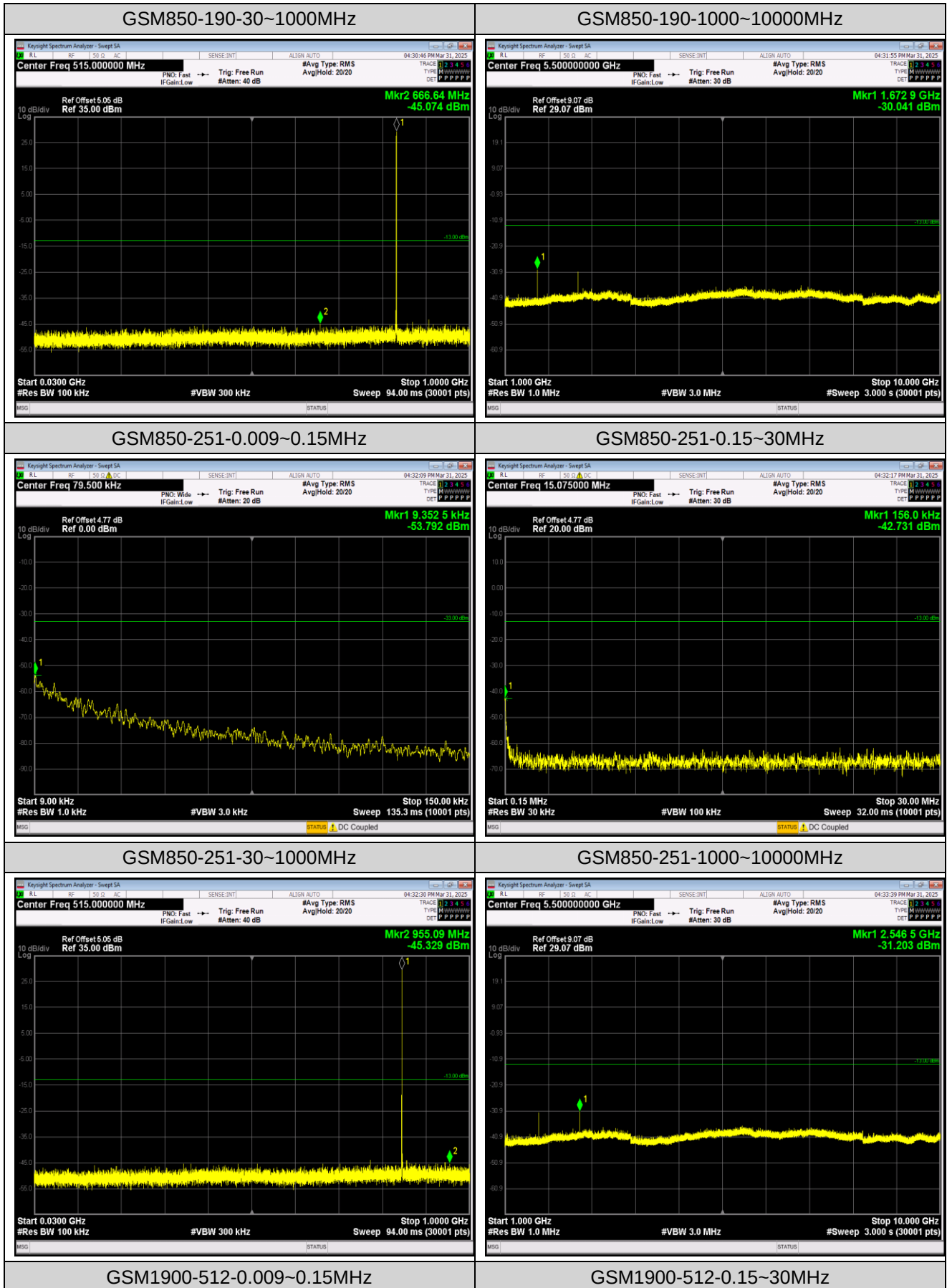
Test Result

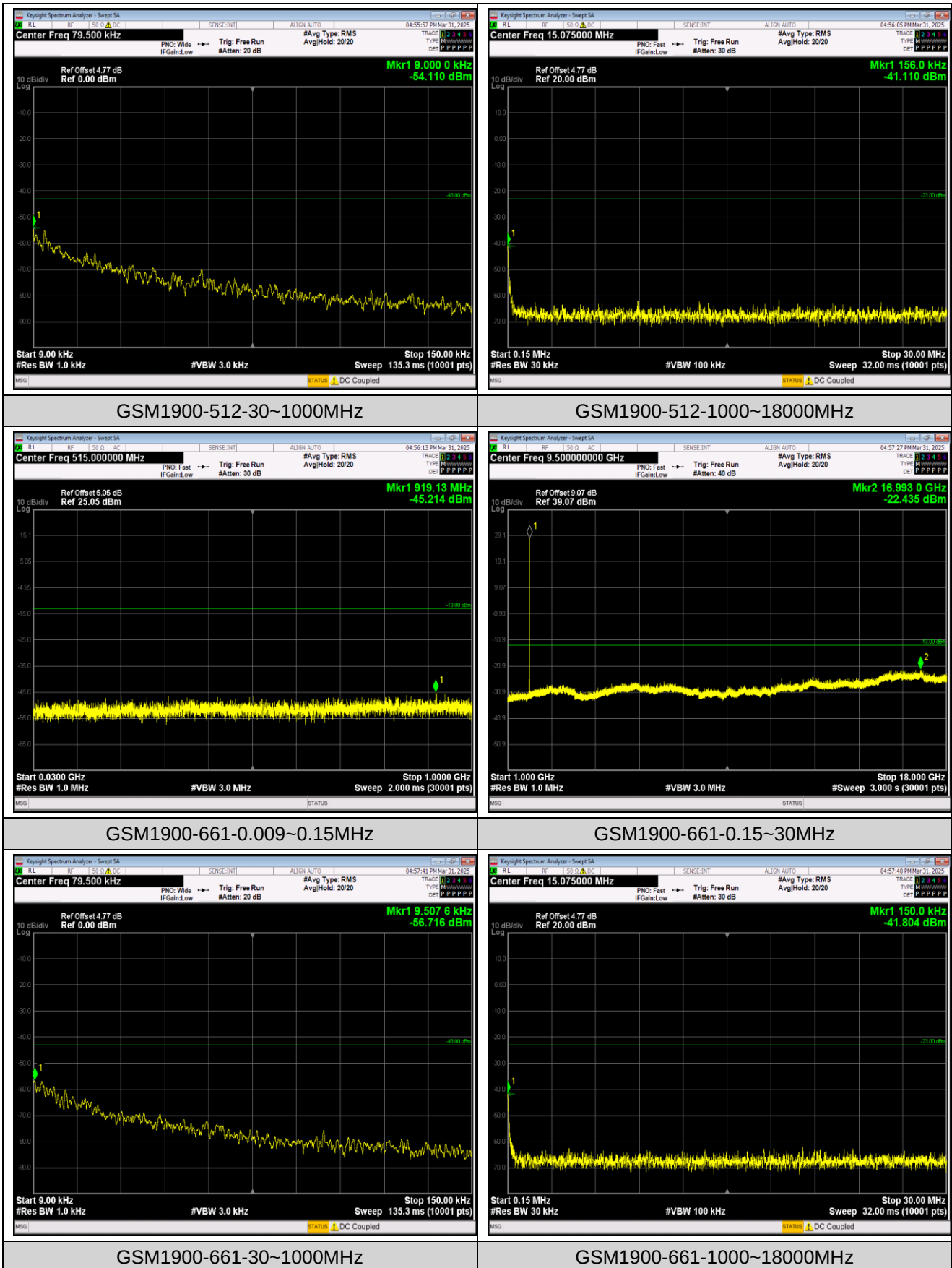
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-53.87	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-43.82	-13	PASS
GSM850	128	5	30~1000MHz	982.15	-44.57	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-29.21	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.16	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-42.41	-13	PASS
GSM850	190	5	30~1000MHz	666.64	-45.07	-13	PASS
GSM850	190	5	1000~10000MHz	1672.9	-30.04	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.79	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-42.73	-13	PASS
GSM850	251	5	30~1000MHz	955.09	-45.33	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-31.2	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.11	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-41.11	-23	PASS
GSM1900	512	0	30~1000MHz	919.13	-45.21	-13	PASS
GSM1900	512	0	1000~18000MHz	16993.03	-22.44	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.72	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-41.8	-23	PASS
GSM1900	661	0	30~1000MHz	813.6	-45.08	-13	PASS
GSM1900	661	0	1000~18000MHz	16789.03	-22.25	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.85	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43.23	-23	PASS
GSM1900	810	0	30~1000MHz	282.39	-45.38	-13	PASS
GSM1900	810	0	1000~18000MHz	17045.73	-22.23	-13	PASS

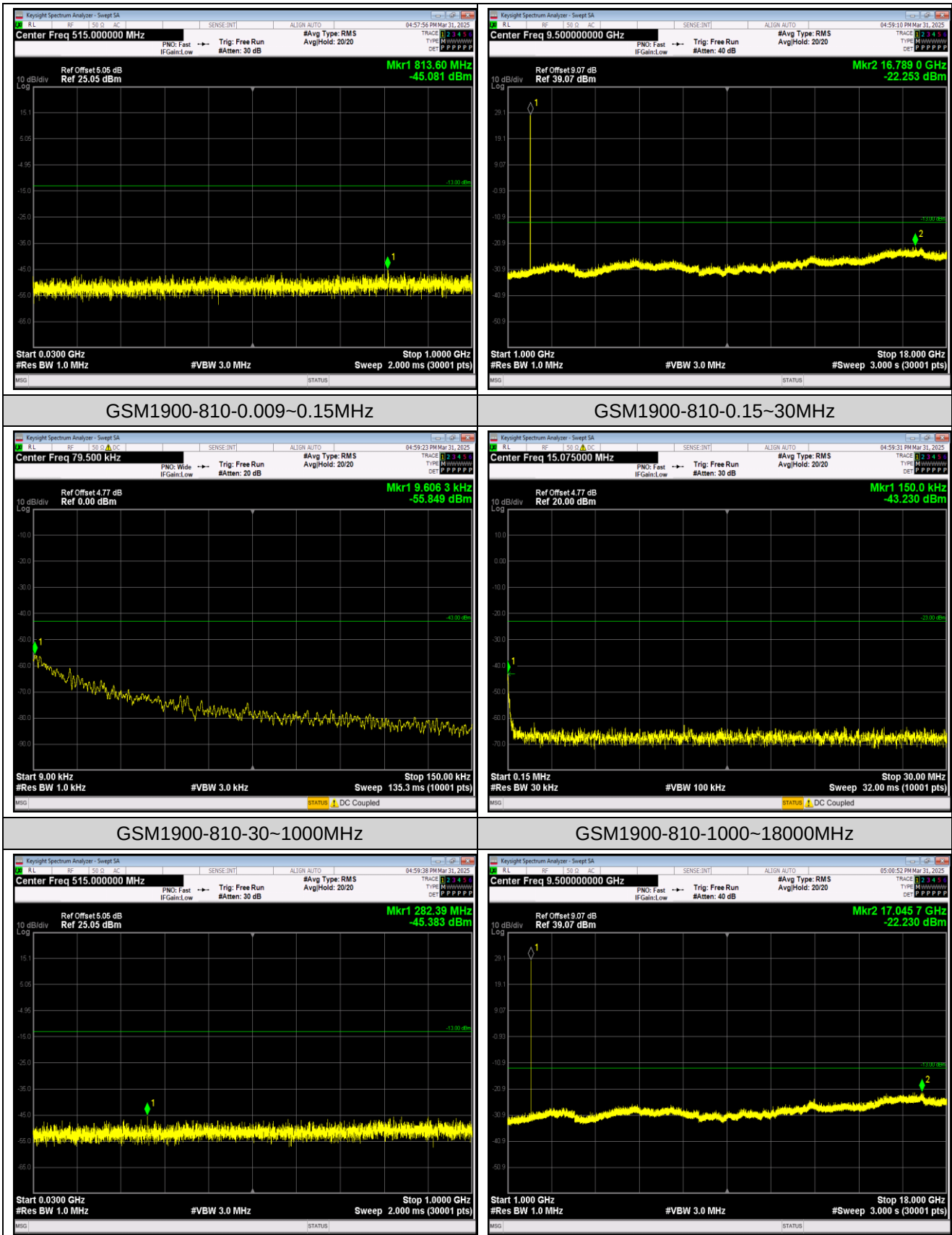
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	-5.17	-0.006180	±2.5	Pass
	-20	-4.42	-0.005283		
	-10	-4.07	-0.004865		
	0	-0.94	-0.001124		
	10	1.16	0.001387		
	20	1.58	0.001889		
	30	-0.42	-0.000502		
	40	2.49	0.002976		
	50	1.65	0.001972		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-1.71	-0.002044	±2.5	Pass
	3.85	-4.04	-0.004829		
	4.40	-1.00	-0.001195		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: EGPRS850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	3.07	0.003670	±2.5	Pass
	-20	6.26	0.007483		
	-10	0.26	0.000311		
	0	3.62	0.004327		
	10	0.55	0.000657		
	20	8.30	0.009921		
	30	0.48	0.000574		
	40	4.81	0.005749		
	50	4.68	0.005594		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	4.26	0.005092	±2.5	Pass
	3.85	3.16	0.003777		
	4.40	7.07	0.008451		
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	-3.97	-0.002112	Within authorized band for PCS 1900	Pass
	-20	0.97	0.000516		
	-10	1.81	0.000963		
	0	0.77	0.000410		
	10	1.00	0.000532		
	20	0.03	0.000016		
	30	4.33	0.002303		
	40	4.78	0.002543		
	50	2.10	0.001117		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	2.20	0.001170	Within authorized band for PCS 1900	Pass
	3.85	-4.39	-0.002335		
	4.40	-0.29	-0.000154		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: EGPRS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-10.33	-0.005495	Within authorized band for PCS 1900	Pass
	-20	-13.79	-0.007335		
	-10	-20.08	-0.010681		
	0	-8.10	-0.004309		
	10	-5.23	-0.002782		
	20	-6.84	-0.003638		
	30	-7.81	-0.004154		
	40	-0.61	-0.000324		
	50	-1.61	-0.000856		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-9.94	-0.005287	Within authorized band for PCS 1900	Pass
	3.85	-2.20	-0.001170		
	4.40	-10.75	-0.005718		
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
EGPRS1900	661	PASS	PASS

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

Test Graphs

