

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	32.97	27.36	38.45	PASS
GSM850	190	5	33.22	27.61	38.45	PASS
GSM850	251	5	33.10	27.49	38.45	PASS
GSM1900	512	0	30.09	29.75	33.00	PASS
GSM1900	661	0	30.25	29.91	33.00	PASS
GSM1900	810	0	29.64	29.3	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.96	27.35	38.45	PASS
GPRS850	128	5	2	30.90	25.29	38.45	PASS
GPRS850	128	5	3	29.08	23.47	38.45	PASS
GPRS850	128	5	4	27.02	21.41	38.45	PASS
GPRS850	190	5	1	33.21	27.6	38.45	PASS
GPRS850	190	5	2	31.10	25.49	38.45	PASS
GPRS850	190	5	3	29.28	23.67	38.45	PASS
GPRS850	190	5	4	27.23	21.62	38.45	PASS
GPRS850	251	5	1	33.08	27.47	38.45	PASS
GPRS850	251	5	2	30.98	25.37	38.45	PASS
GPRS850	251	5	3	29.19	23.58	38.45	PASS
GPRS850	251	5	4	27.19	21.58	38.45	PASS
GPRS1900	512	0	1	30.10	29.76	33.00	PASS
GPRS1900	512	0	2	27.57	27.23	33.00	PASS
GPRS1900	512	0	3	25.98	25.64	33.00	PASS
GPRS1900	512	0	4	23.99	23.65	33.00	PASS
GPRS1900	661	0	1	30.23	29.89	33.00	PASS
GPRS1900	661	0	2	27.67	27.33	33.00	PASS
GPRS1900	661	0	3	26.19	25.85	33.00	PASS
GPRS1900	661	0	4	24.23	23.89	33.00	PASS
GPRS1900	810	0	1	29.64	29.3	33.00	PASS
GPRS1900	810	0	2	27.07	26.73	33.00	PASS
GPRS1900	810	0	3	25.69	25.35	33.00	PASS
GPRS1900	810	0	4	23.78	23.44	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	25.98	20.37	38.45	PASS
EGPRS850	128	8	2	24.96	19.35	38.45	PASS
EGPRS850	128	8	3	22.76	17.15	38.45	PASS
EGPRS850	128	8	4	20.32	14.71	38.45	PASS
EGPRS850	190	8	1	26.20	20.59	38.45	PASS
EGPRS850	190	8	2	25.04	19.43	38.45	PASS
EGPRS850	190	8	3	23.02	17.41	38.45	PASS
EGPRS850	190	8	4	20.60	14.99	38.45	PASS
EGPRS850	251	8	1	26.24	20.63	38.45	PASS
EGPRS850	251	8	2	25.14	19.53	38.45	PASS
EGPRS850	251	8	3	23.03	17.42	38.45	PASS
EGPRS850	251	8	4	20.74	15.13	38.45	PASS
EGPRS1900	512	2	1	24.13	23.79	33.00	PASS
EGPRS1900	512	2	2	22.40	22.06	33.00	PASS
EGPRS1900	512	2	3	20.05	19.71	33.00	PASS
EGPRS1900	512	2	4	17.88	17.54	33.00	PASS
EGPRS1900	661	2	1	24.53	24.19	33.00	PASS
EGPRS1900	661	2	2	22.83	22.49	33.00	PASS
EGPRS1900	661	2	3	20.44	20.1	33.00	PASS
EGPRS1900	661	2	4	18.29	17.95	33.00	PASS
EGPRS1900	810	2	1	24.72	24.38	33.00	PASS
EGPRS1900	810	2	2	23.03	22.69	33.00	PASS
EGPRS1900	810	2	3	20.61	20.27	33.00	PASS
EGPRS1900	810	2	4	18.32	17.98	33.00	PASS

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

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

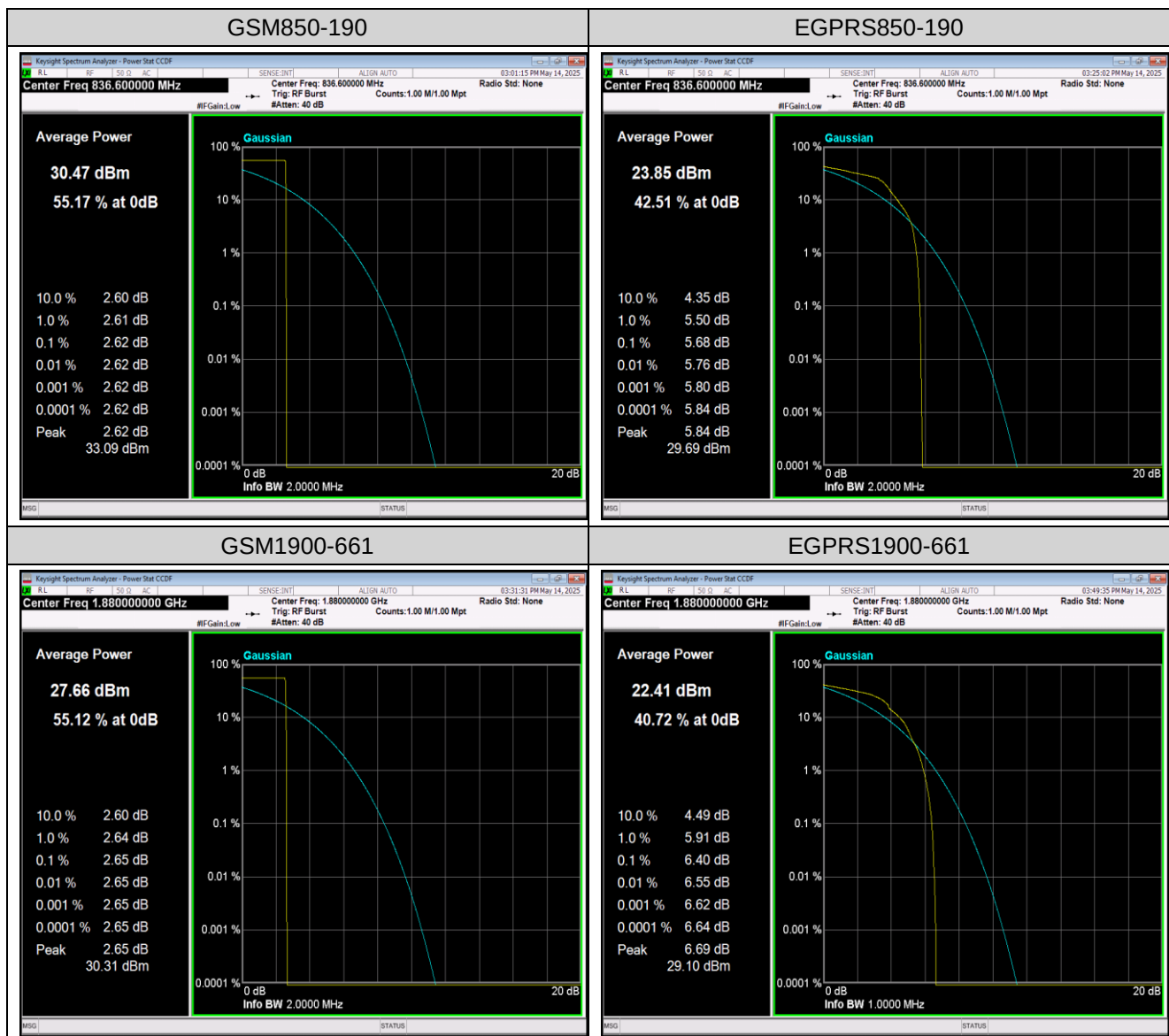
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.62	13	PASS
EGPRS850	190	8	5.68	13	PASS
GSM1900	661	0	2.65	13	PASS
EGPRS1900	661	2	6.4	13	PASS

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

Test Graphs

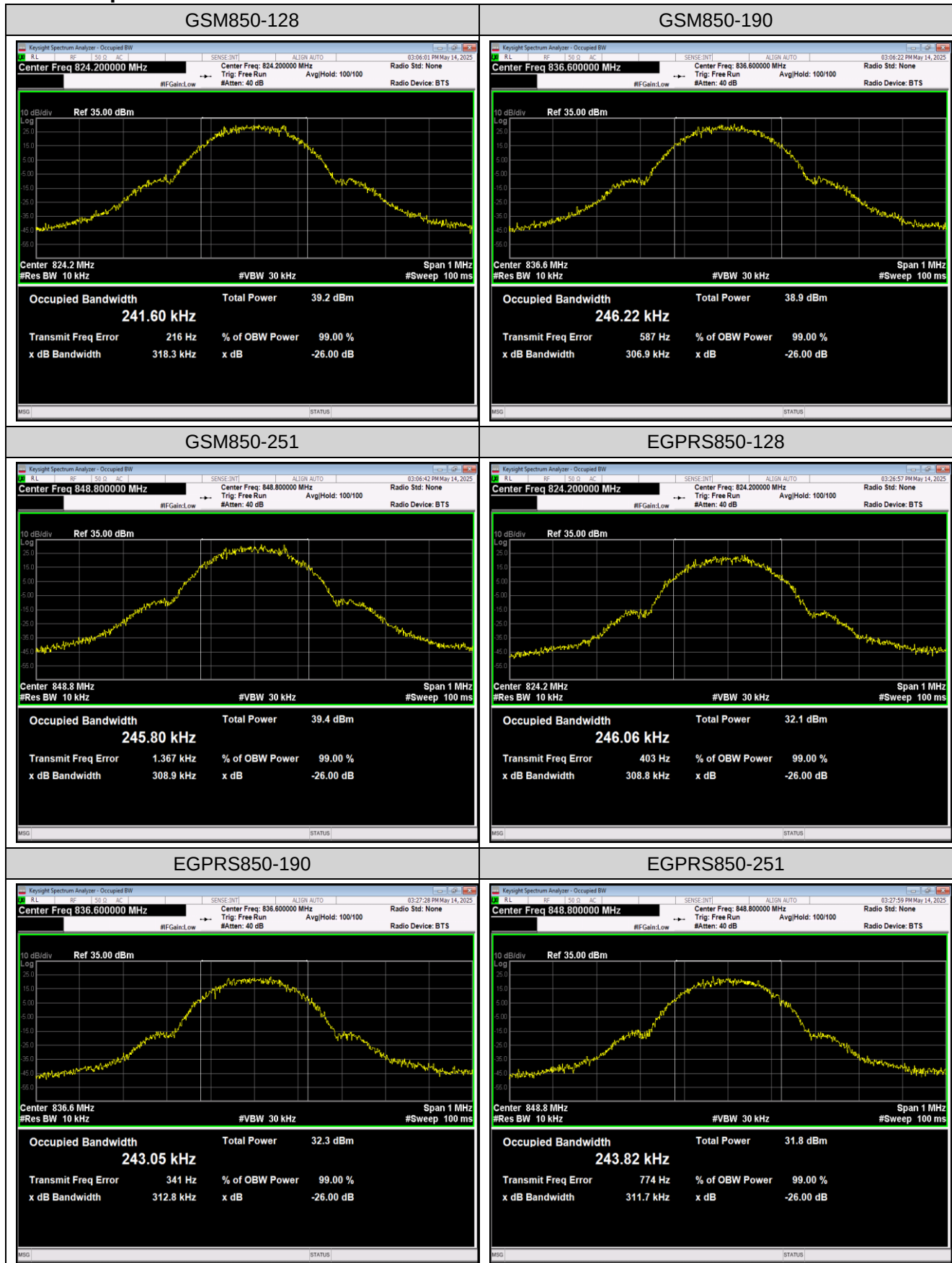


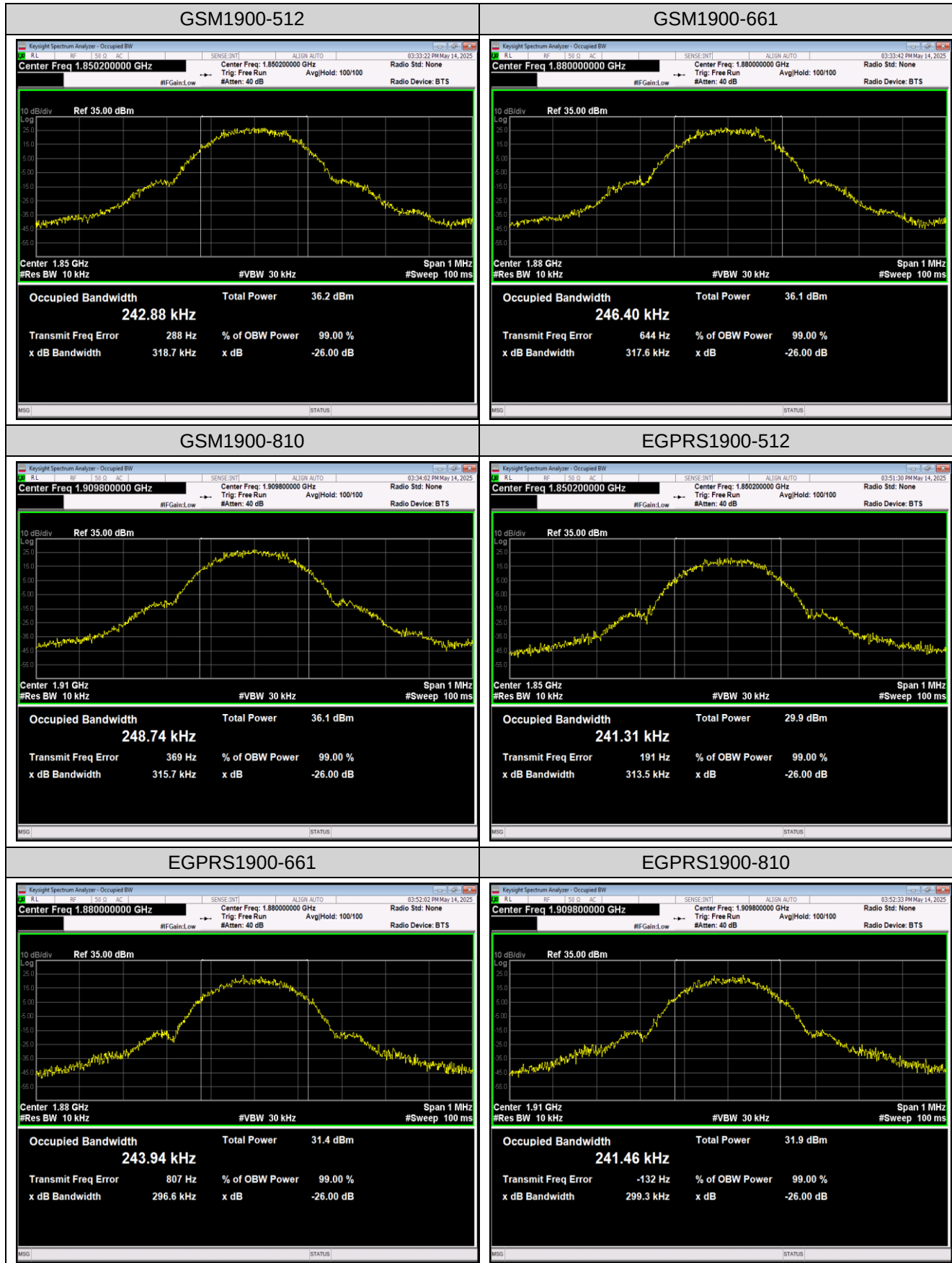
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24160	0.3183	---	PASS
GSM850	190	5	0.24622	0.3069	---	PASS
GSM850	251	5	0.24580	0.3089	---	PASS
EGPRS850	128	8	0.24606	0.3088	---	PASS
EGPRS850	190	8	0.24305	0.3128	---	PASS
EGPRS850	251	8	0.24382	0.3117	---	PASS
GSM1900	512	0	0.24288	0.3187	---	PASS
GSM1900	661	0	0.24640	0.3176	---	PASS
GSM1900	810	0	0.24874	0.3157	---	PASS
EGPRS1900	512	2	0.24131	0.3135	---	PASS
EGPRS1900	661	2	0.24394	0.2966	---	PASS
EGPRS1900	810	2	0.24146	0.2993	---	PASS

Test Graphs



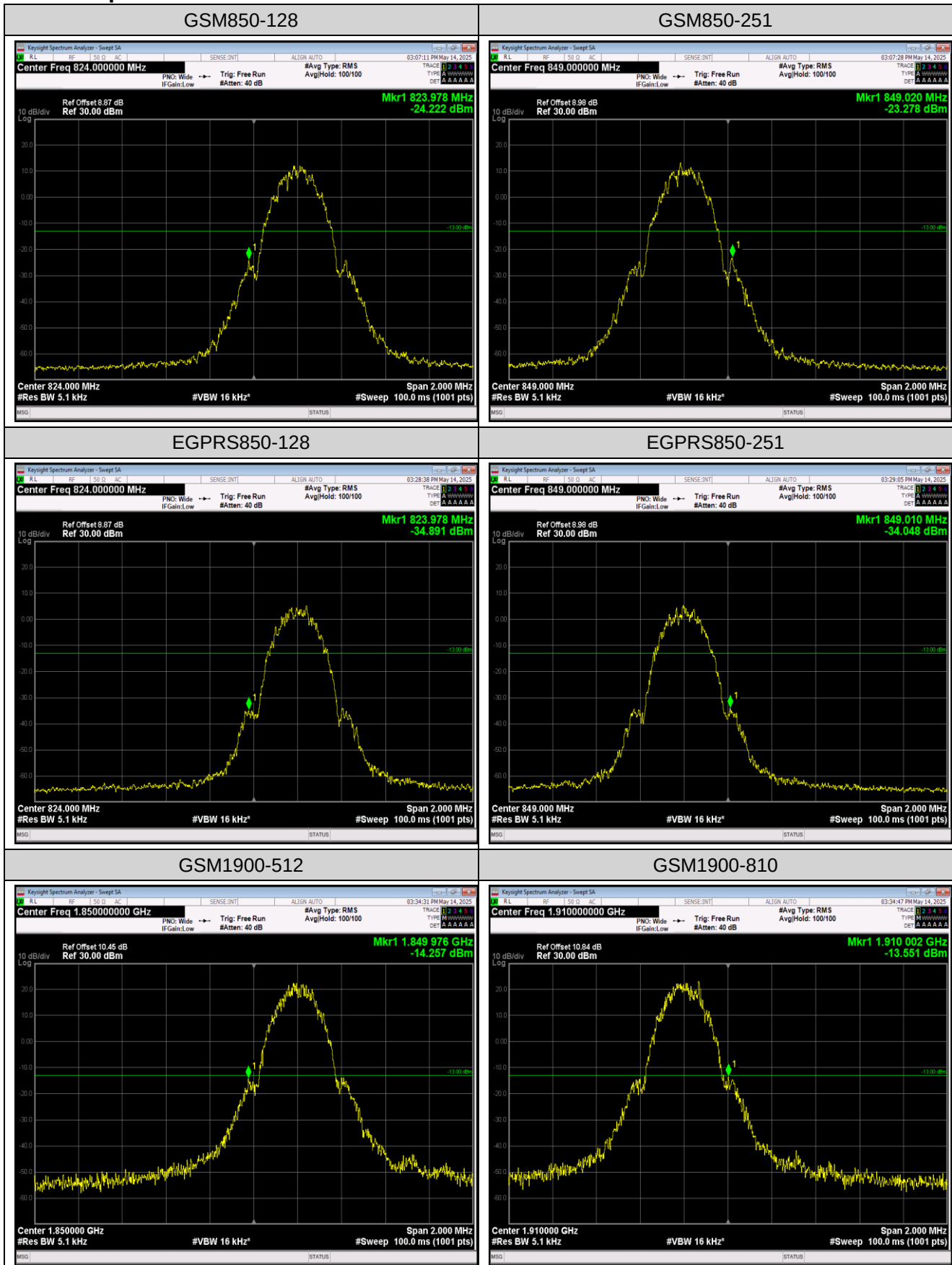


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.22	-13	PASS
GSM850	251	5	849.02	-23.28	-13	PASS
EGPRS850	128	8	823.98	-34.89	-13	PASS
EGPRS850	251	8	849.01	-34.05	-13	PASS
GSM1900	512	0	1849.98	-14.26	-13	PASS
GSM1900	810	0	1910.00	-13.55	-13	PASS
EGPRS1900	512	2	1849.99	-21.79	-13	PASS
EGPRS1900	810	2	1910.02	-20.61	-13	PASS

Test Graphs

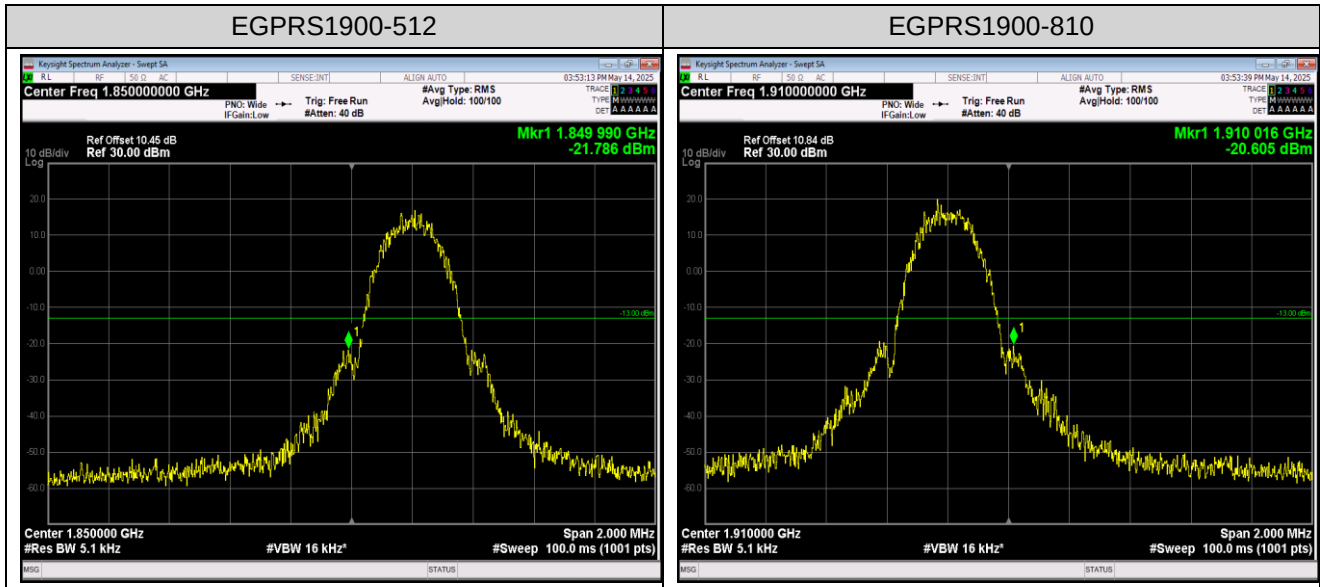


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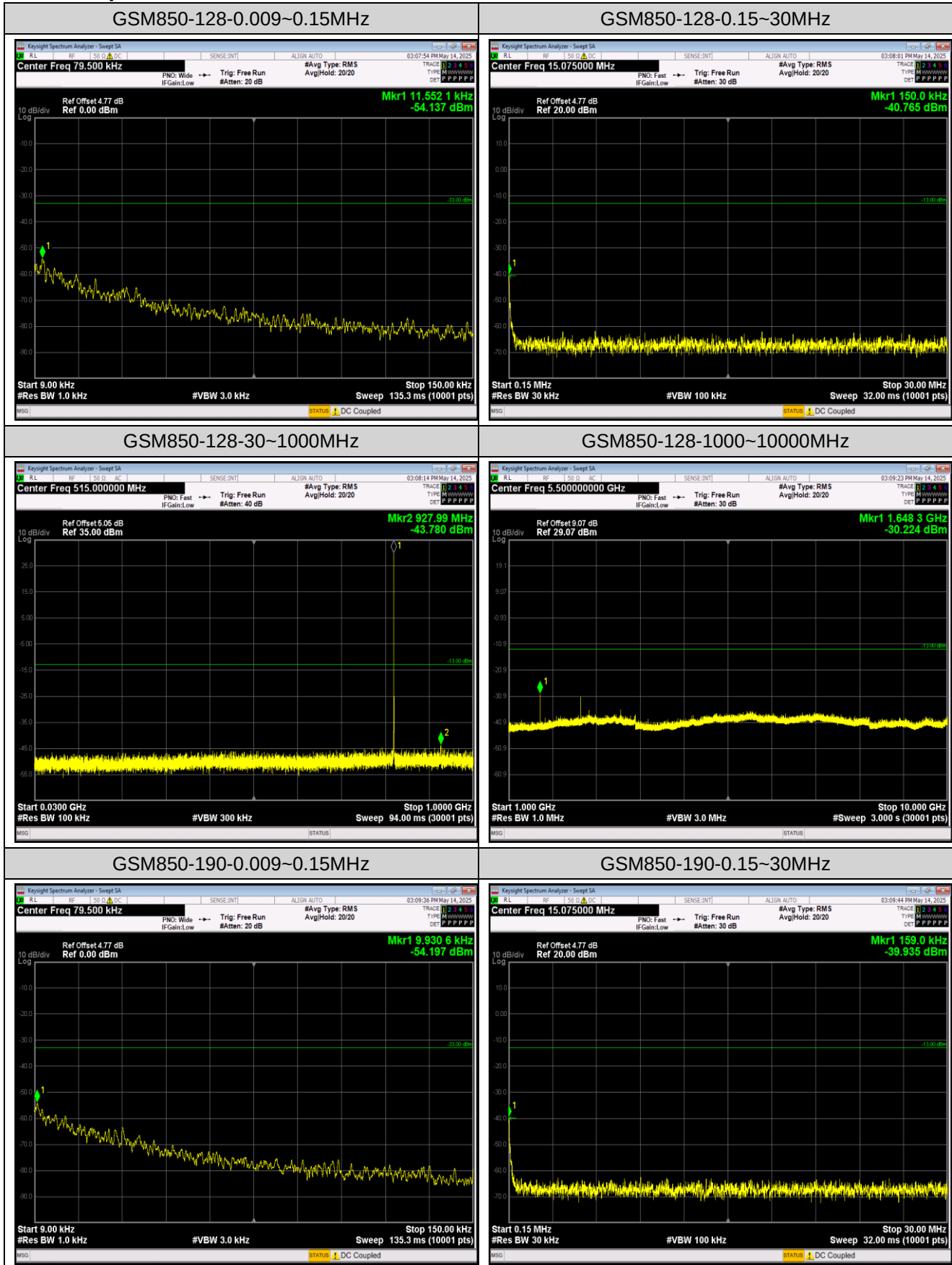
Appendix E: Conducted Spurious Emission

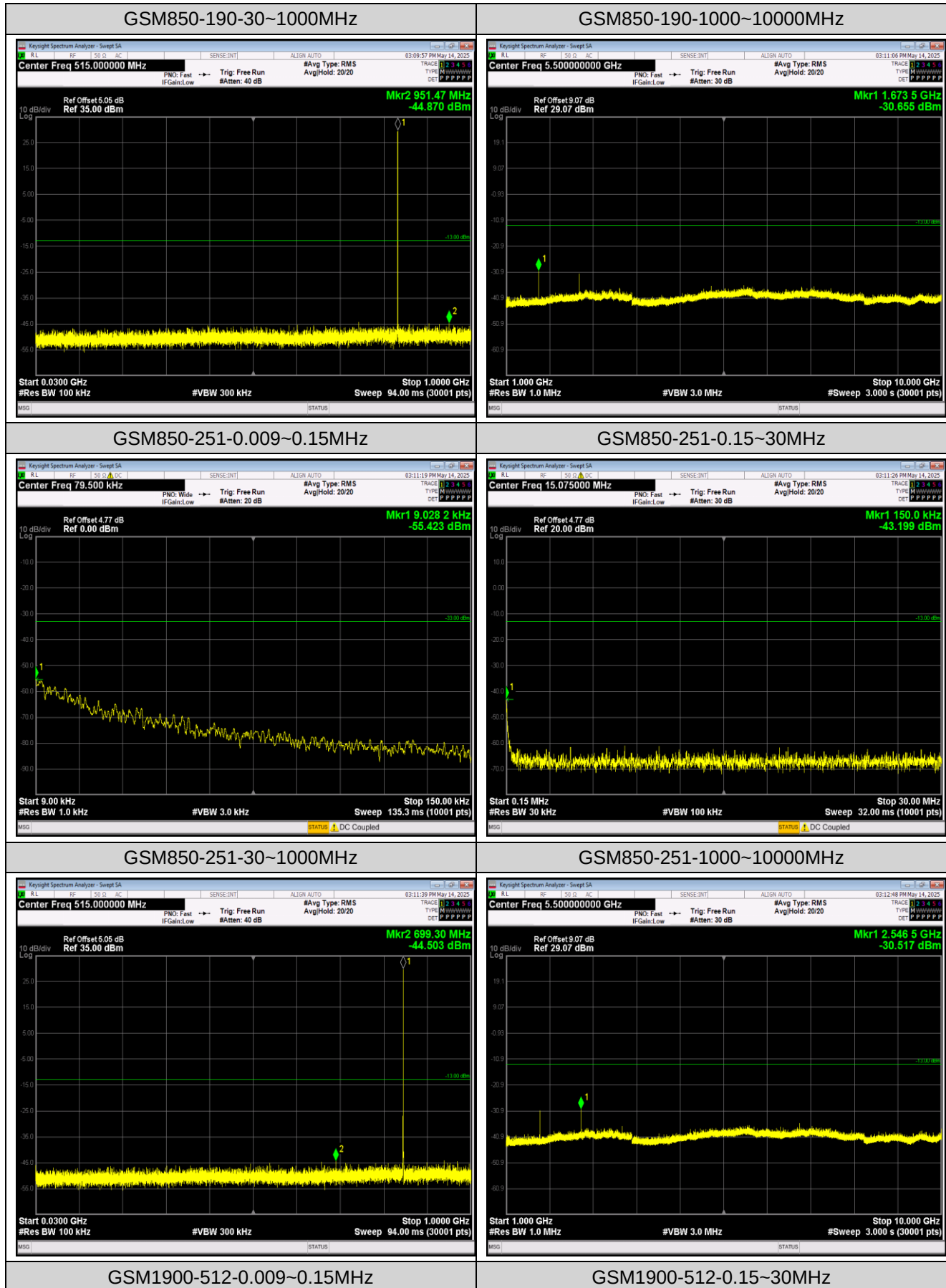
Test Result

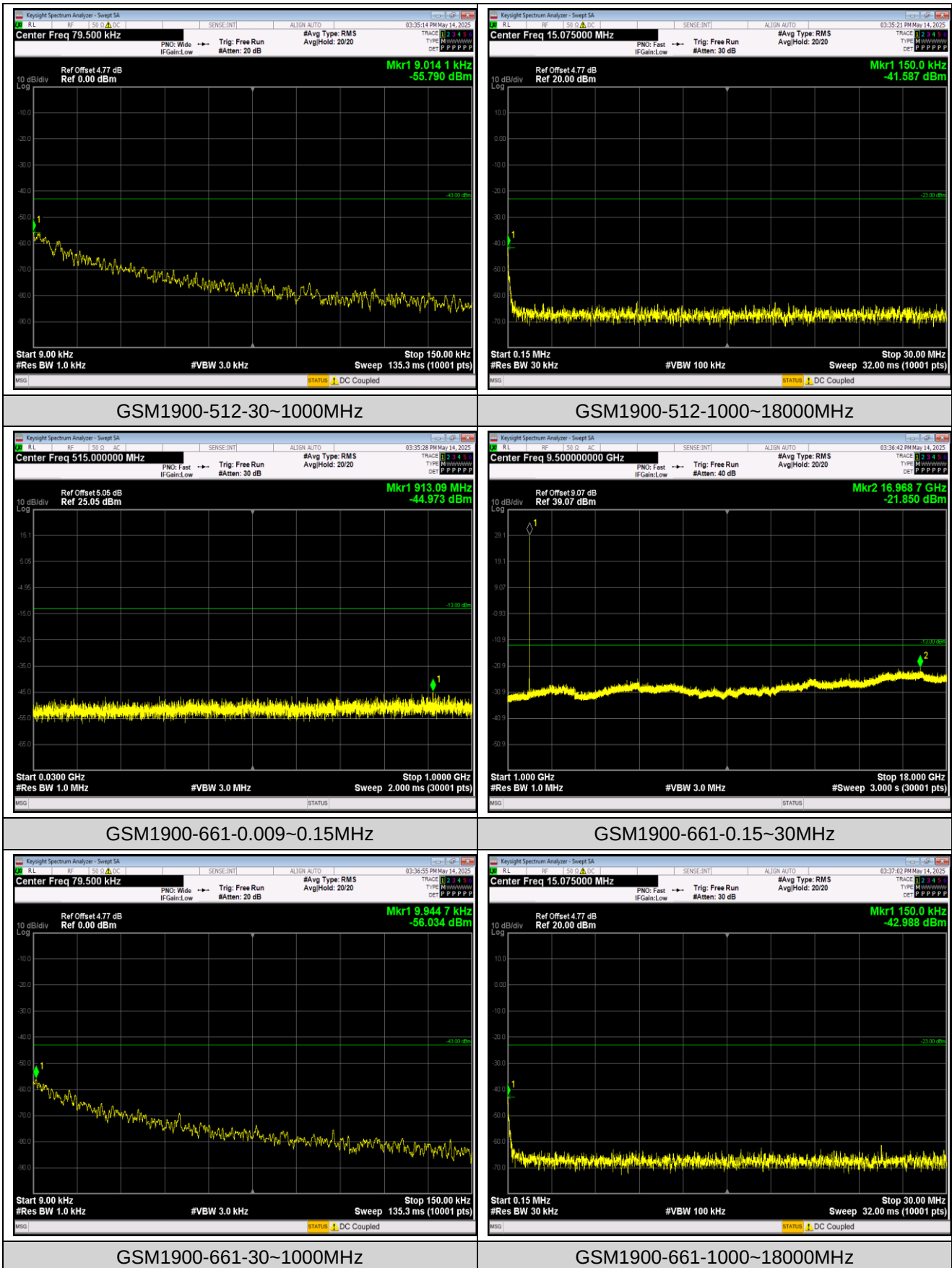
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.14	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-40.77	-13	PASS
GSM850	128	5	30~1000MHz	927.99	-43.78	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-30.22	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.2	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-39.94	-13	PASS
GSM850	190	5	30~1000MHz	951.47	-44.87	-13	PASS
GSM850	190	5	1000~10000MHz	1673.5	-30.66	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.42	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-43.2	-13	PASS
GSM850	251	5	30~1000MHz	699.3	-44.5	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-30.52	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.79	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-41.59	-23	PASS
GSM1900	512	0	30~1000MHz	913.09	-44.97	-13	PASS
GSM1900	512	0	1000~18000MHz	16968.67	-21.85	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.03	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.99	-23	PASS
GSM1900	661	0	30~1000MHz	834.26	-44.76	-13	PASS
GSM1900	661	0	1000~18000MHz	16660.97	-22.01	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.69	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43.4	-23	PASS
GSM1900	810	0	30~1000MHz	455.22	-45.03	-13	PASS
GSM1900	810	0	1000~18000MHz	16918.23	-22.42	-13	PASS

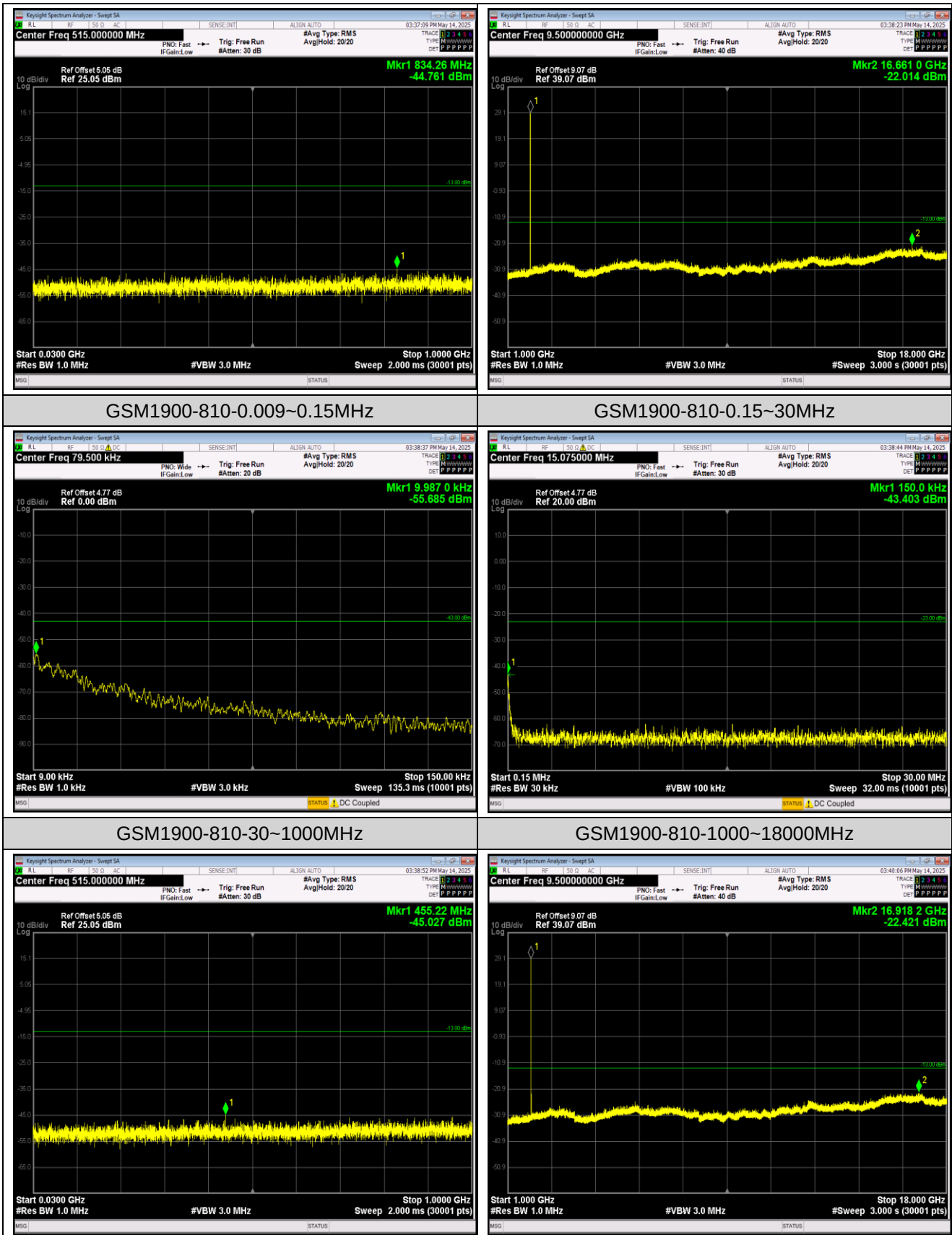
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.87	-30	6.17	0.007375	±2.5	Pass
	-20	7.10	0.008487		
	-10	9.69	0.011583		
	0	3.71	0.004435		
	10	3.16	0.003777		
	20	6.07	0.007256		
	30	4.84	0.005785		
	40	2.97	0.003550		
	50	-0.48	-0.000574		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.65	0.003168	±2.5	Pass
	3.87	6.26	0.007483		
	4.45	-2.29	-0.002737		
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		
3.87	-30	1.00	0.001195	±2.5	Pass
	-20	5.33	0.006371		
	-10	-0.16	-0.000191		
	0	4.65	0.005558		
	10	5.10	0.006096		
	20	1.65	0.001972		
	30	1.32	0.001578		
	40	4.29	0.005128		
	50	0.74	0.000885		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	5.29	0.006323	±2.5	Pass
	3.87	5.29	0.006323		
	4.45	-1.61	-0.001924		
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		
3.87	-30	-1.39	-0.000739	Within authorized band for PCS 1900	Pass
	-20	-2.26	-0.001202		
	-10	-2.03	-0.001080		
	0	-4.16	-0.002213		
	10	-4.52	-0.002404		
	20	-10.33	-0.005495		
	30	-3.87	-0.002059		
	40	-5.94	-0.003160		
	50	-9.17	-0.004878		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.74	0.001457	Within authorized band for PCS 1900	Pass
	3.87	-5.55	-0.002952		
	4.45	3.65	0.001941		
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		
3.87	-30	-23.57	-0.012537	Within authorized band for PCS 1900	Pass
	-20	-17.56	-0.009340		
	-10	-9.94	-0.005287		
	0	-11.78	-0.006266		
	10	-12.56	-0.006681		
	20	-6.10	-0.003245		
	30	-13.66	-0.007266		
	40	-8.36	-0.004447		
	50	-25.73	-0.013686		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-23.57	-0.012537	Within authorized band for PCS 1900	Pass
	3.87	-20.05	-0.010665		
	4.45	-24.38	-0.012968		
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

