

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	24.75	38.45	PASS
GSM850	190	5	33.81	24.97	38.45	PASS
GSM850	251	5	33.25	24.41	38.45	PASS
GSM1900	512	0	30.70	28.86	33.00	PASS
GSM1900	661	0	30.88	29.04	33.00	PASS
GSM1900	810	0	30.55	28.71	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.60	24.76	38.45	PASS
GPRS850	128	5	2	32.41	23.57	38.45	PASS
GPRS850	128	5	3	29.96	21.12	38.45	PASS
GPRS850	128	5	4	28.54	19.7	38.45	PASS
GPRS850	190	5	1	33.81	24.97	38.45	PASS
GPRS850	190	5	2	32.65	23.81	38.45	PASS
GPRS850	190	5	3	30.27	21.43	38.45	PASS
GPRS850	190	5	4	28.84	20	38.45	PASS
GPRS850	251	5	1	33.23	24.39	38.45	PASS
GPRS850	251	5	2	31.93	23.09	38.45	PASS
GPRS850	251	5	3	29.51	20.67	38.45	PASS
GPRS850	251	5	4	28.06	19.22	38.45	PASS
GPRS1900	512	0	1	30.74	28.9	33.00	PASS
GPRS1900	512	0	2	29.97	28.13	33.00	PASS
GPRS1900	512	0	3	27.79	25.95	33.00	PASS
GPRS1900	512	0	4	26.13	24.29	33.00	PASS
GPRS1900	661	0	1	30.89	29.05	33.00	PASS
GPRS1900	661	0	2	30.11	28.27	33.00	PASS
GPRS1900	661	0	3	28.03	26.19	33.00	PASS
GPRS1900	661	0	4	26.39	24.55	33.00	PASS
GPRS1900	810	0	1	30.53	28.69	33.00	PASS
GPRS1900	810	0	2	29.82	27.98	33.00	PASS
GPRS1900	810	0	3	27.87	26.03	33.00	PASS
GPRS1900	810	0	4	26.24	24.4	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	28.68	19.84	38.45	PASS
EGPRS850	128	8	2	27.51	18.67	38.45	PASS
EGPRS850	128	8	3	25.49	16.65	38.45	PASS
EGPRS850	128	8	4	24.27	15.43	38.45	PASS
EGPRS850	190	8	1	28.62	19.78	38.45	PASS
EGPRS850	190	8	2	27.48	18.64	38.45	PASS
EGPRS850	190	8	3	25.44	16.6	38.45	PASS
EGPRS850	190	8	4	24.26	15.42	38.45	PASS
EGPRS850	251	8	1	28.59	19.75	38.45	PASS
EGPRS850	251	8	2	27.42	18.58	38.45	PASS
EGPRS850	251	8	3	25.43	16.59	38.45	PASS
EGPRS850	251	8	4	24.26	15.42	38.45	PASS
EGPRS1900	512	2	1	27.34	25.5	33.00	PASS
EGPRS1900	512	2	2	26.17	24.33	33.00	PASS
EGPRS1900	512	2	3	24.01	22.17	33.00	PASS
EGPRS1900	512	2	4	22.78	20.94	33.00	PASS
EGPRS1900	661	2	1	27.65	25.81	33.00	PASS
EGPRS1900	661	2	2	26.48	24.64	33.00	PASS
EGPRS1900	661	2	3	24.40	22.56	33.00	PASS
EGPRS1900	661	2	4	23.10	21.26	33.00	PASS
EGPRS1900	810	2	1	27.58	25.74	33.00	PASS
EGPRS1900	810	2	2	26.44	24.6	33.00	PASS
EGPRS1900	810	2	3	24.36	22.52	33.00	PASS
EGPRS1900	810	2	4	22.98	21.14	33.00	PASS

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

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

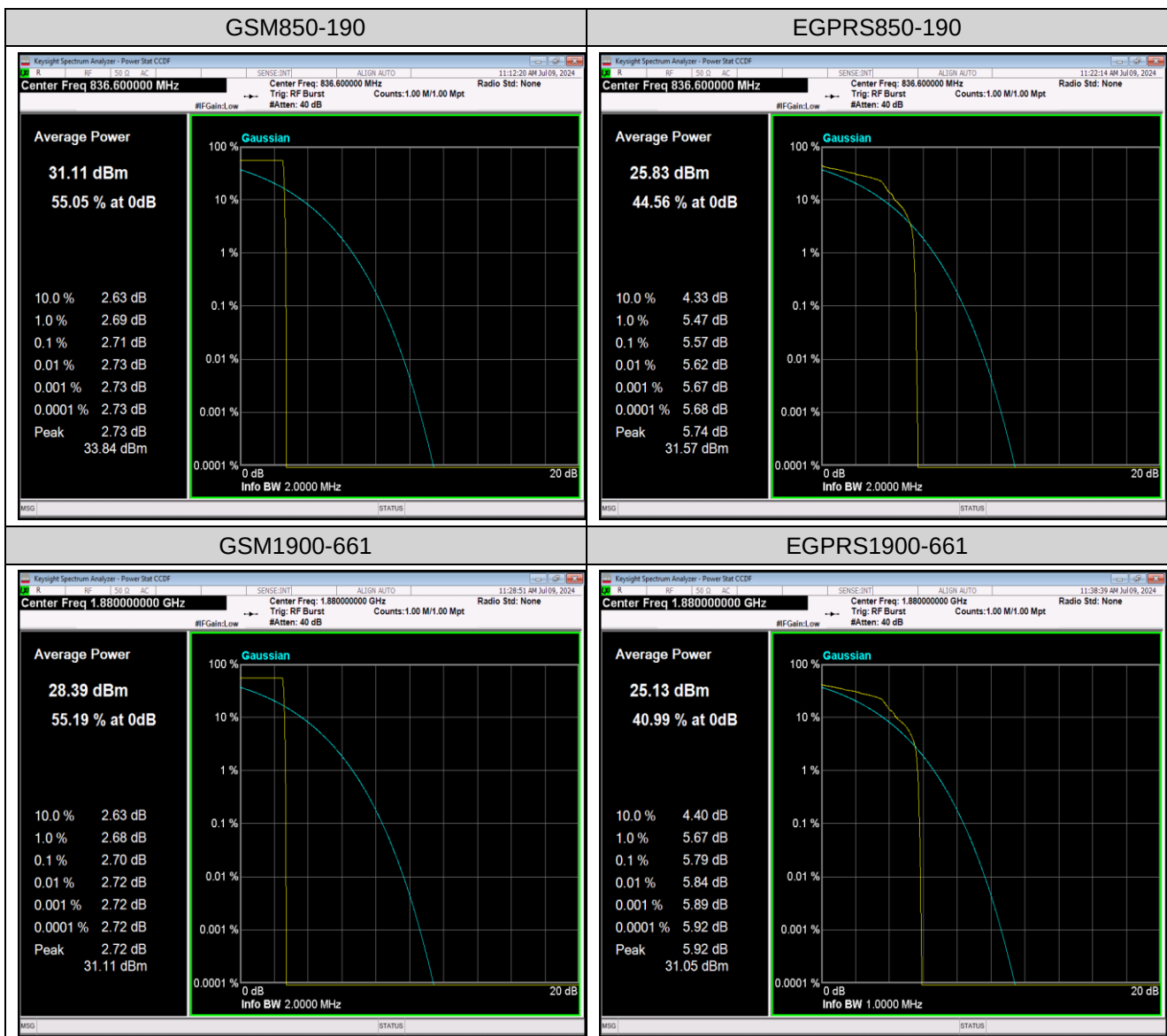
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.71	13	PASS
EGPRS850	190	8	5.57	13	PASS
GSM1900	661	0	2.7	13	PASS
EGPRS1900	661	2	5.79	13	PASS

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

Test Graphs

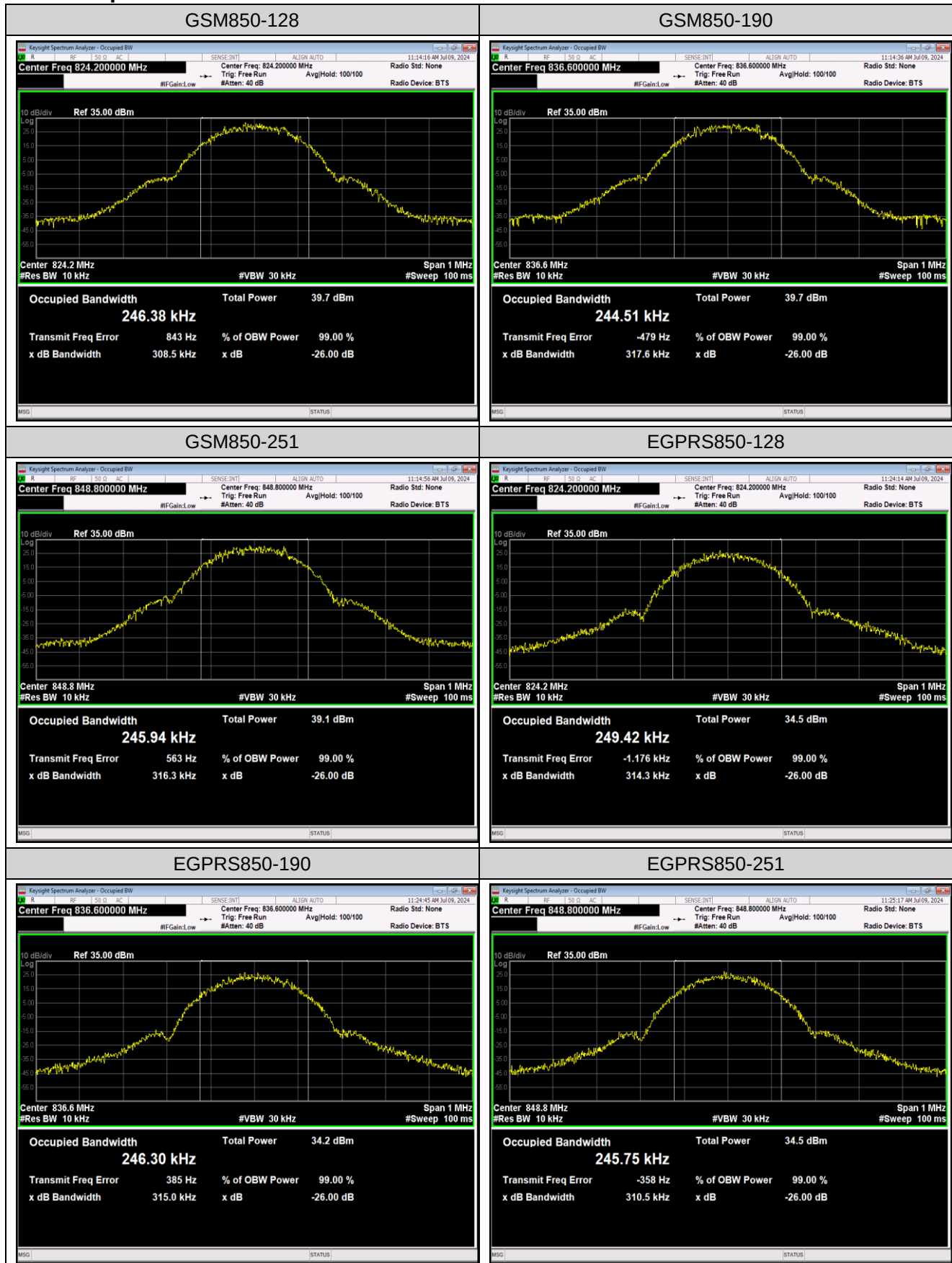


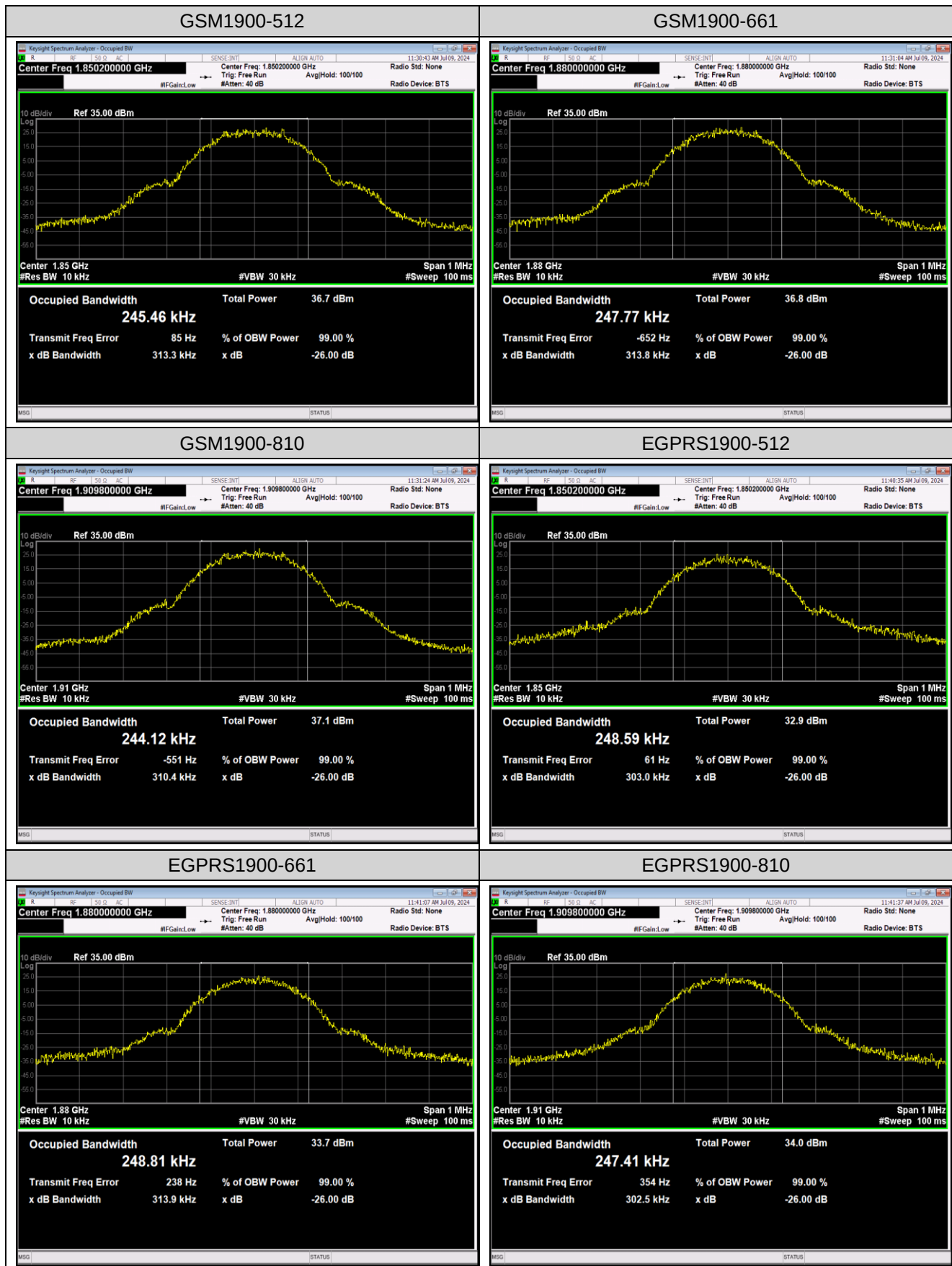
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24638	0.3085	---	PASS
GSM850	190	5	0.24451	0.3176	---	PASS
GSM850	251	5	0.24594	0.3163	---	PASS
EGPRS850	128	8	0.24942	0.3143	---	PASS
EGPRS850	190	8	0.24630	0.3150	---	PASS
EGPRS850	251	8	0.24575	0.3105	---	PASS
GSM1900	512	0	0.24546	0.3133	---	PASS
GSM1900	661	0	0.24777	0.3138	---	PASS
GSM1900	810	0	0.24412	0.3104	---	PASS
EGPRS1900	512	2	0.24859	0.3030	---	PASS
EGPRS1900	661	2	0.24881	0.3139	---	PASS
EGPRS1900	810	2	0.24741	0.3025	---	PASS

Test Graphs



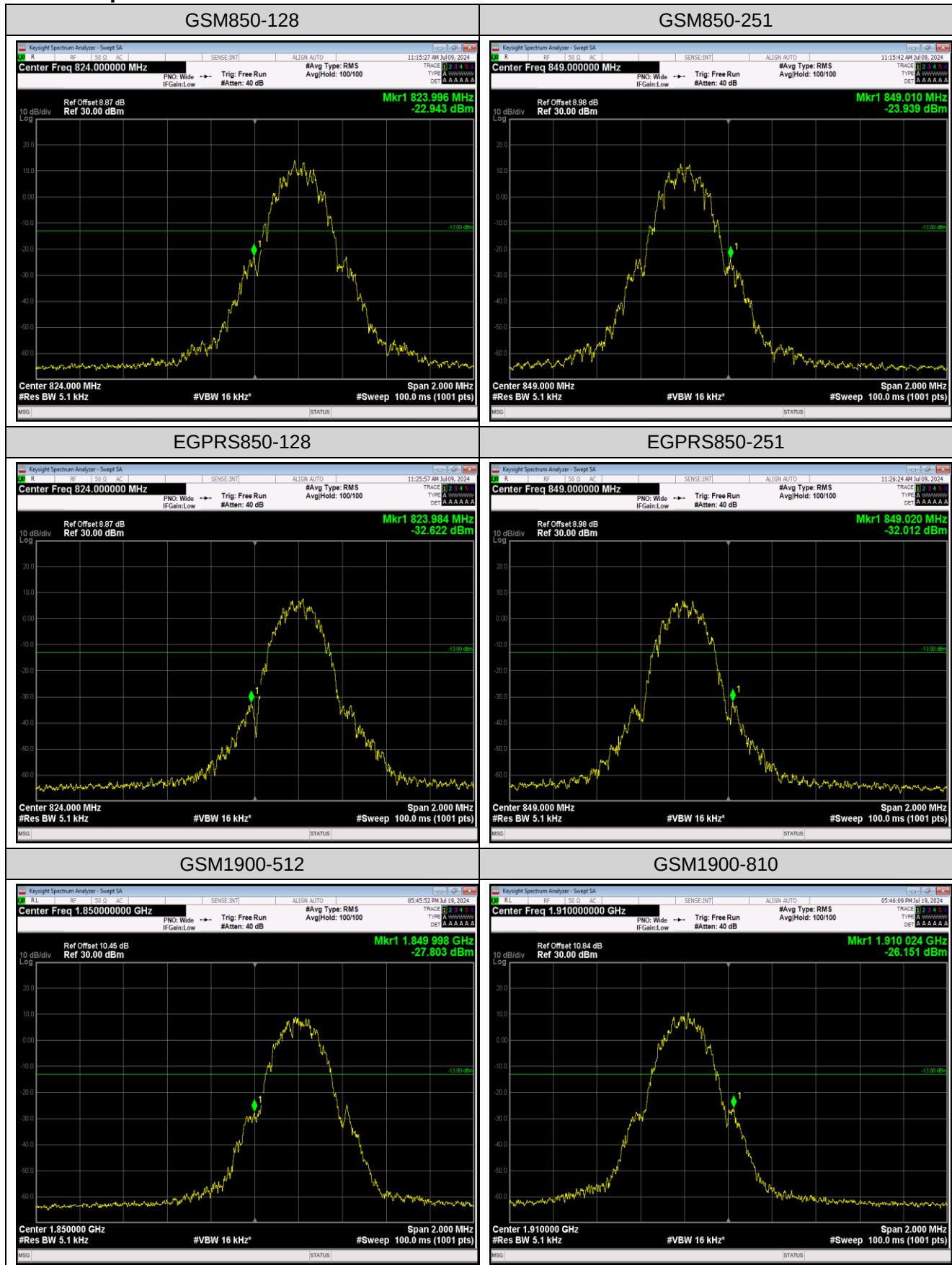


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-22.94	-13	PASS
GSM850	251	5	849.01	-23.94	-13	PASS
EGPRS850	128	8	823.98	-32.62	-13	PASS
EGPRS850	251	8	849.02	-32.01	-13	PASS
GSM1900	512	0	1850.00	-27.80	-13	PASS
GSM1900	810	0	1910.02	-26.15	-13	PASS
EGPRS1900	512	2	1849.99	-18.43	-13	PASS
EGPRS1900	810	2	1910.04	-15.08	-13	PASS

Test Graphs

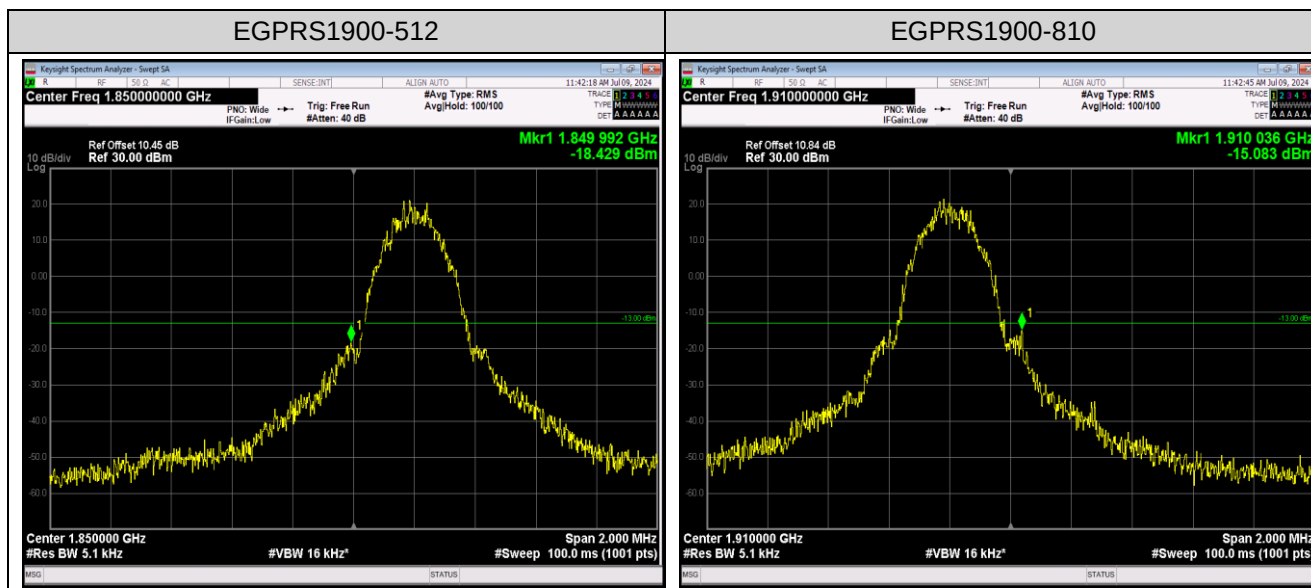


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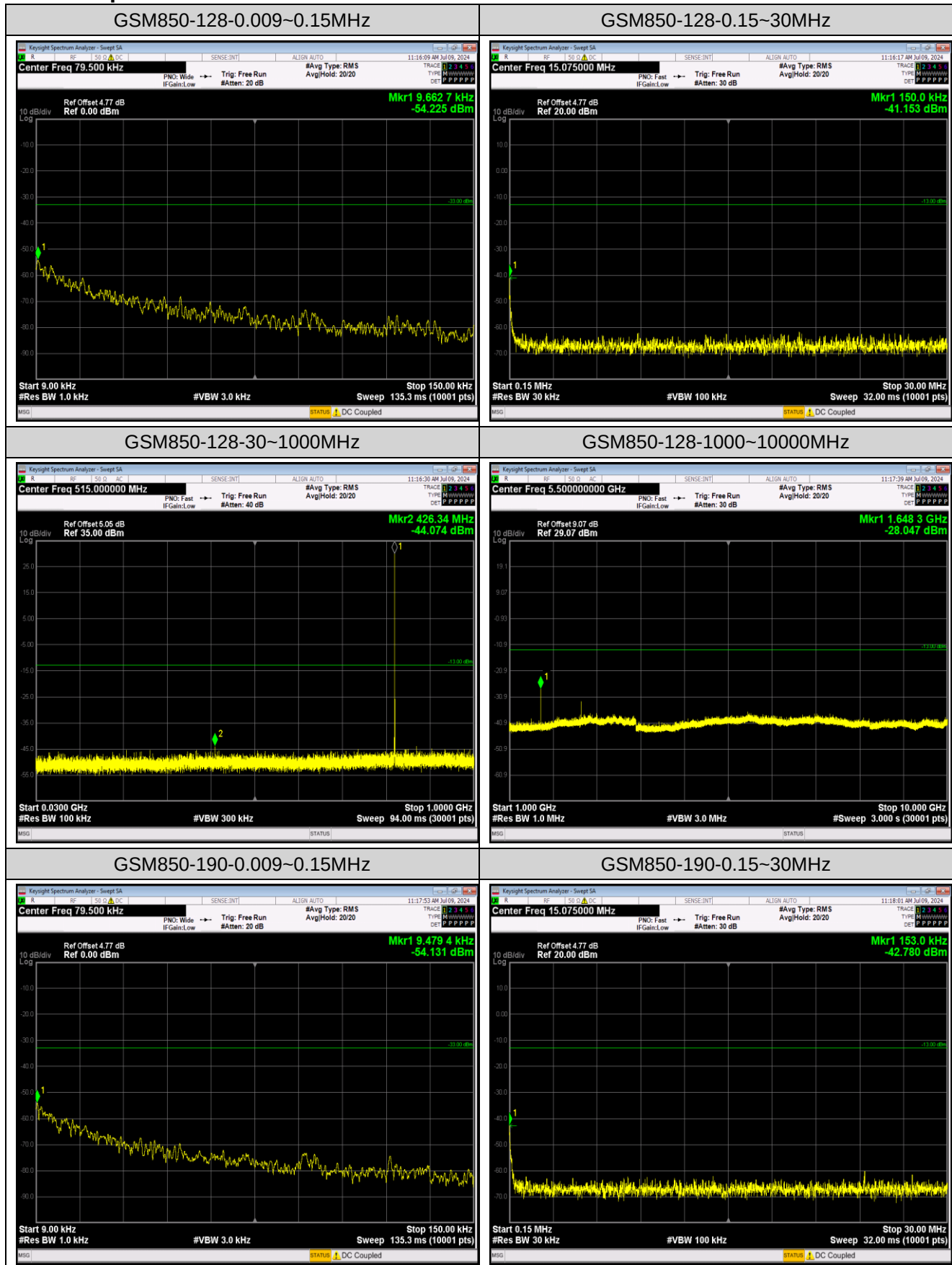
Appendix E: Conducted Spurious Emission

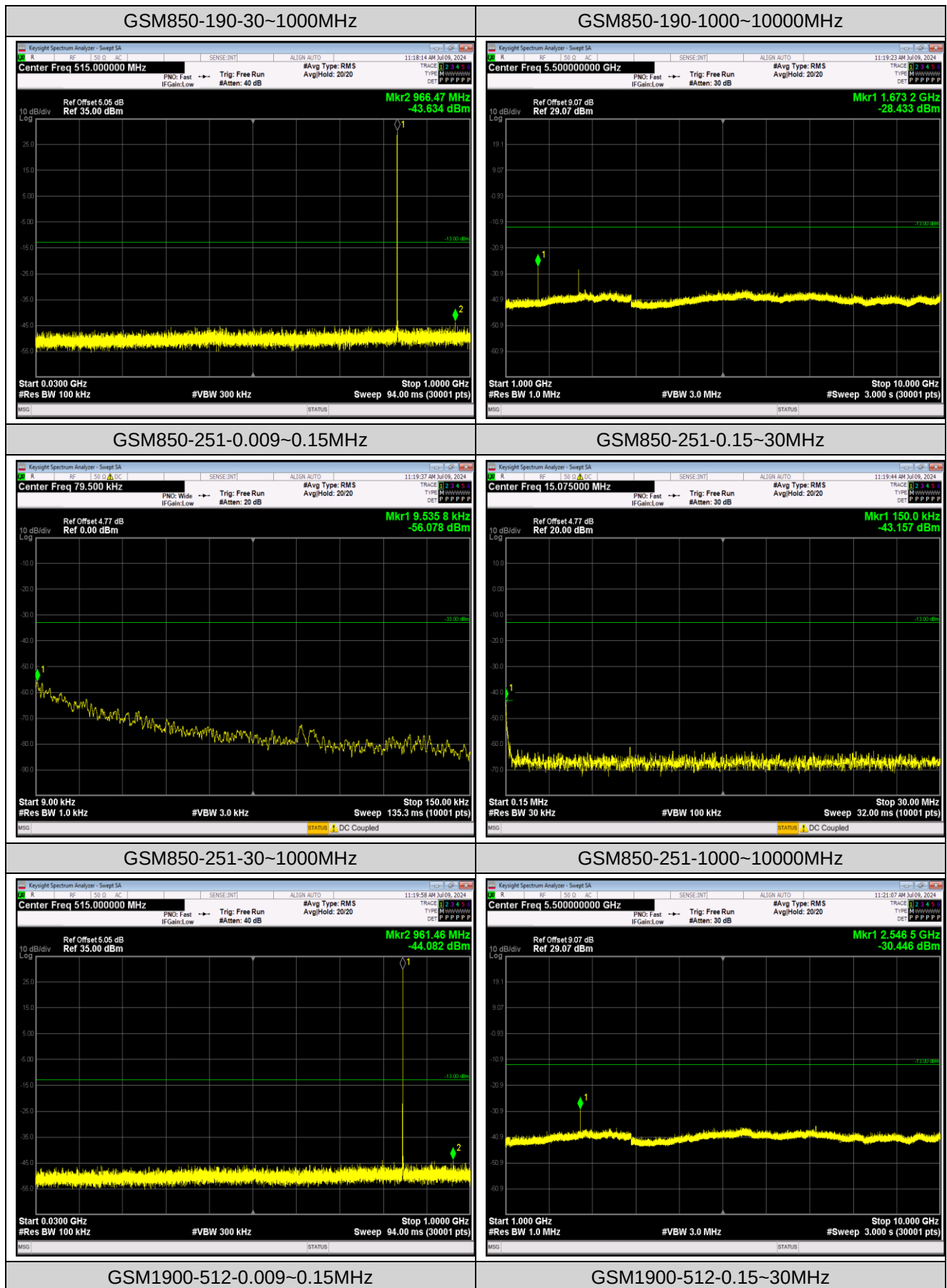
Test Result

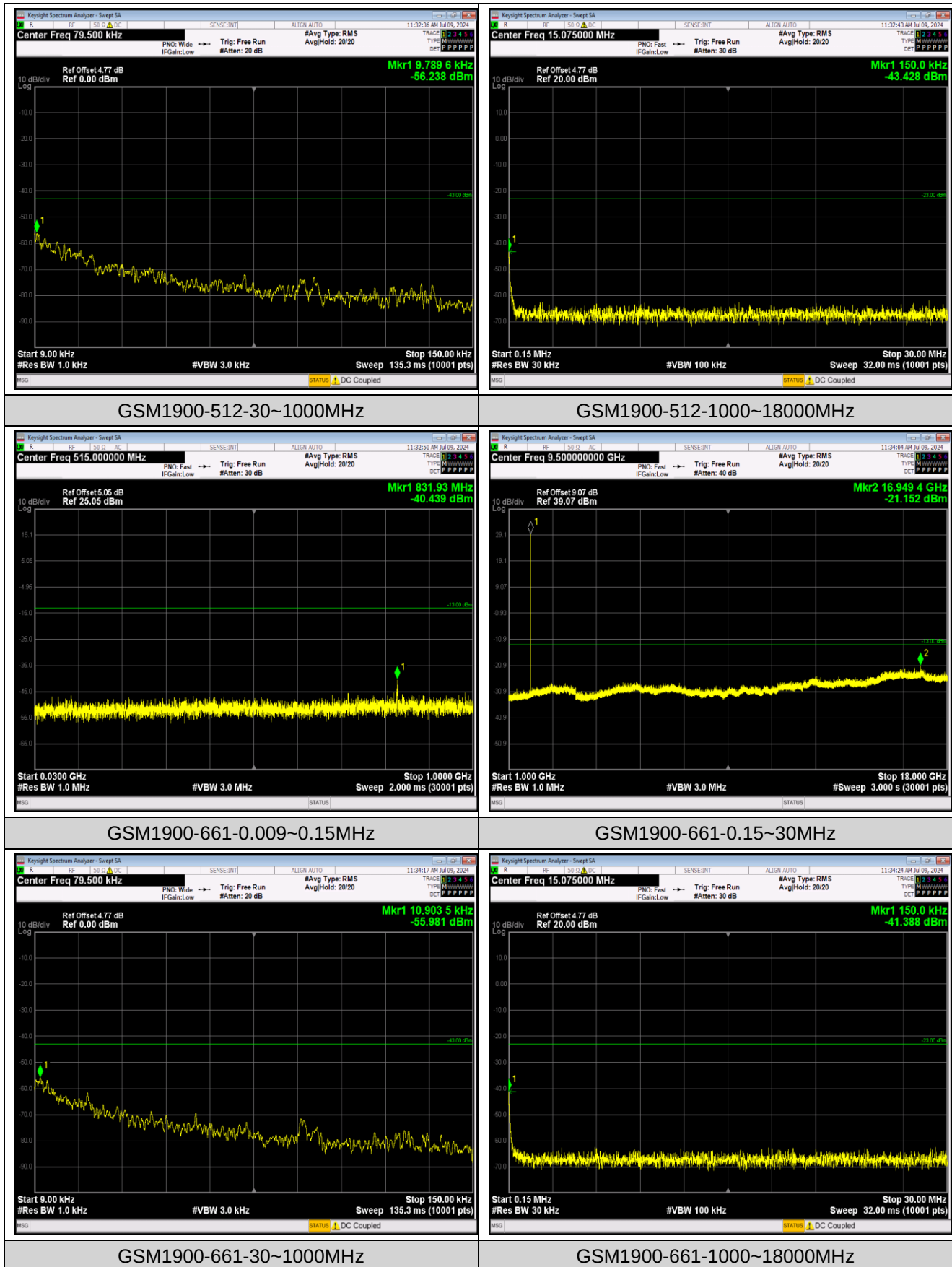
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.23	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.15	-13	PASS
GSM850	128	5	30~1000MHz	426.34	-44.07	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-28.05	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.13	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.78	-13	PASS
GSM850	190	5	30~1000MHz	966.47	-43.63	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-28.43	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-56.08	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-43.16	-13	PASS
GSM850	251	5	30~1000MHz	961.46	-44.08	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-30.45	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.24	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-43.43	-23	PASS
GSM1900	512	0	30~1000MHz	831.93	-40.44	-13	PASS
GSM1900	512	0	1000~18000MHz	16949.4	-21.15	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.98	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-41.39	-23	PASS
GSM1900	661	0	30~1000MHz	834.07	-44.52	-13	PASS
GSM1900	661	0	1000~18000MHz	17000.4	-21.77	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-57.91	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-42.73	-23	PASS
GSM1900	810	0	30~1000MHz	886.32	-45.73	-13	PASS
GSM1900	810	0	1000~18000MHz	16220.67	-22.35	-13	PASS

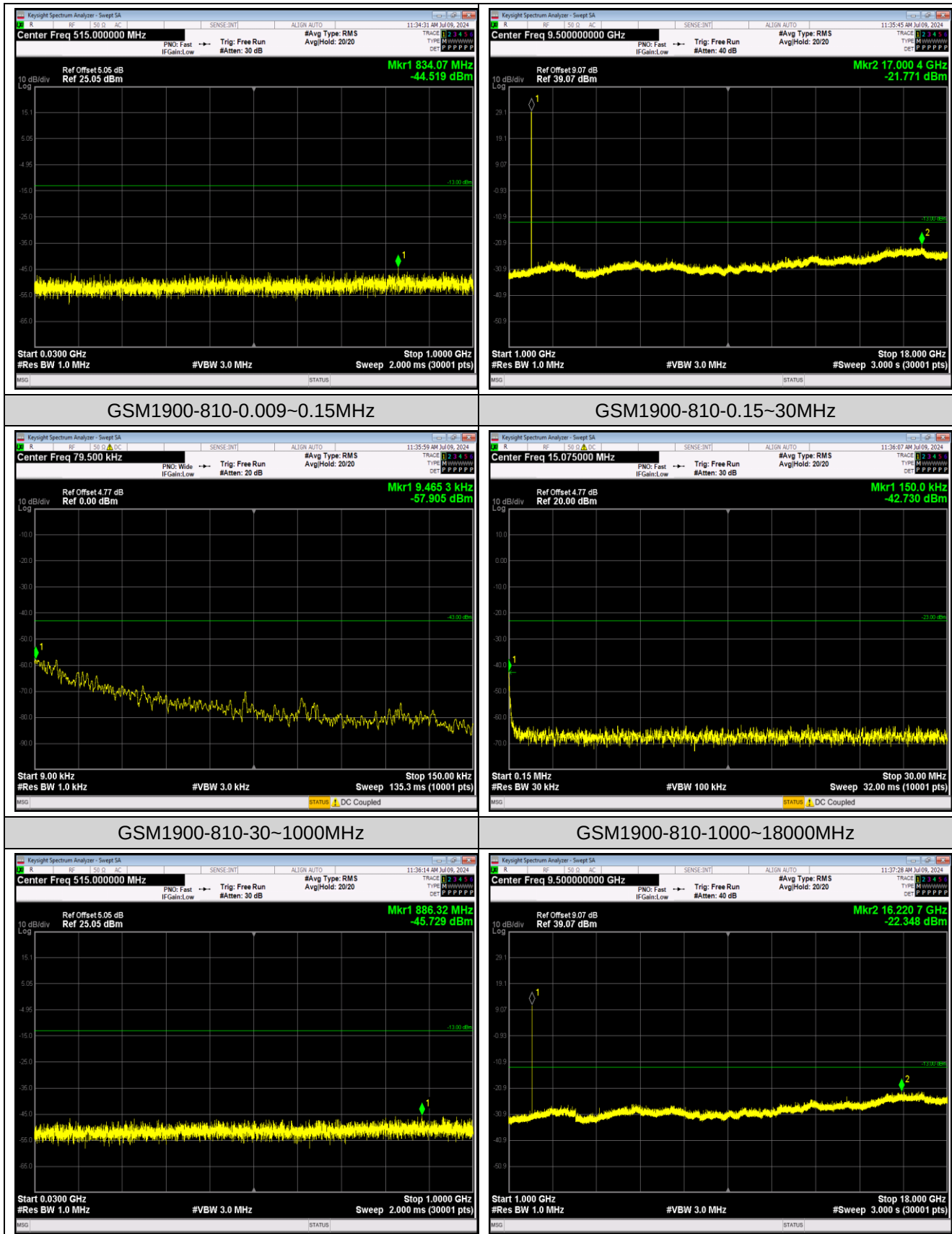
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	4.65	0.005558	±2.5	Pass
	-20	4.10	0.004901		
	-10	5.20	0.006216		
	0	1.52	0.001817		
	10	3.42	0.004088		
	20	0.94	0.001124		
	30	0.32	0.000383		
	40	-0.55	-0.000657		
	50	0.45	0.000538		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	6.65	0.007949	±2.5	Pass
	3.87	5.10	0.006096		
	4.45	3.58	0.004279		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	-1.10	-0.001315	±2.5	Pass
	-20	-2.94	-0.003514		
	-10	-6.97	-0.008331		
	0	-2.78	-0.003323		
	10	-3.52	-0.004208		
	20	-7.33	-0.008762		
	30	-5.49	-0.006562		
	40	-4.33	-0.005176		
	50	-3.52	-0.004208		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-7.91	-0.009455	±2.5	Pass
	3.87	-4.58	-0.005475		
	4.45	-3.26	-0.003897		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	9.33	0.004963	Within authorized band for PCS 1900	Pass
	-20	7.88	0.004191		
	-10	4.10	0.002181		
	0	5.20	0.002766		
	10	-1.81	-0.000963		
	20	-1.87	-0.000995		
	30	2.42	0.001287		
	40	-0.42	-0.000223		
	50	-4.84	-0.002574		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	14.08	0.007489	Within authorized band for PCS 1900	Pass
	3.87	4.91	0.002612		
	4.45	13.53	0.007197		
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	-7.26	-0.003862	Within authorized band for PCS 1900	Pass
	-20	-7.49	-0.003984		
	-10	-9.56	-0.005085		
	0	-6.39	-0.003399		
	10	-10.65	-0.005665		
	20	-5.88	-0.003128		
	30	-8.46	-0.004500		
	40	4.49	0.002388		
	50	-3.45	-0.001835		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-4.33	-0.002303	Within authorized band for PCS 1900	Pass
	3.87	-8.52	-0.004532		
	4.45	-11.27	-0.005995		
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

