

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	33.56	31.13	38.45	PASS
GSM850	190	5	33.59	31.16	38.45	PASS
GSM850	251	5	33.73	31.3	38.45	PASS
GSM1900	512	0	30.14	31.04	33.00	PASS
GSM1900	661	0	30.99	31.89	33.00	PASS
GSM1900	810	0	31.31	32.21	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.68	31.25	38.45	PASS
GPRS850	128	5	2	31.80	29.37	38.45	PASS
GPRS850	128	5	3	29.91	27.48	38.45	PASS
GPRS850	128	5	4	27.75	25.32	38.45	PASS
GPRS850	190	5	1	33.70	31.27	38.45	PASS
GPRS850	190	5	2	31.52	29.09	38.45	PASS
GPRS850	190	5	3	29.61	27.18	38.45	PASS
GPRS850	190	5	4	27.44	25.01	38.45	PASS
GPRS850	251	5	1	33.84	31.41	38.45	PASS
GPRS850	251	5	2	31.49	29.06	38.45	PASS
GPRS850	251	5	3	29.57	27.14	38.45	PASS
GPRS850	251	5	4	27.34	24.91	38.45	PASS
GPRS1900	512	0	1	30.38	31.28	33.00	PASS
GPRS1900	512	0	2	28.09	28.99	33.00	PASS
GPRS1900	512	0	3	26.31	27.21	33.00	PASS
GPRS1900	512	0	4	24.07	24.97	33.00	PASS
GPRS1900	661	0	1	30.97	31.87	33.00	PASS
GPRS1900	661	0	2	28.08	28.98	33.00	PASS
GPRS1900	661	0	3	26.27	27.17	33.00	PASS
GPRS1900	661	0	4	24.03	24.93	33.00	PASS
GPRS1900	810	0	1	31.32	32.22	33.00	PASS
GPRS1900	810	0	2	27.92	28.82	33.00	PASS
GPRS1900	810	0	3	26.10	27	33.00	PASS
GPRS1900	810	0	4	23.80	24.7	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.11	24.68	38.45	PASS
EGPRS850	128	8	2	25.94	23.51	38.45	PASS
EGPRS850	128	8	3	23.43	21	38.45	PASS
EGPRS850	128	8	4	21.48	19.05	38.45	PASS
EGPRS850	190	8	1	27.17	24.74	38.45	PASS
EGPRS850	190	8	2	26.10	23.67	38.45	PASS
EGPRS850	190	8	3	23.55	21.12	38.45	PASS
EGPRS850	190	8	4	21.58	19.15	38.45	PASS
EGPRS850	251	8	1	27.19	24.76	38.45	PASS
EGPRS850	251	8	2	26.14	23.71	38.45	PASS
EGPRS850	251	8	3	23.66	21.23	38.45	PASS
EGPRS850	251	8	4	21.59	19.16	38.45	PASS
EGPRS1900	512	2	1	27.02	27.92	33.00	PASS
EGPRS1900	512	2	2	25.22	26.12	33.00	PASS
EGPRS1900	512	2	3	22.82	23.72	33.00	PASS
EGPRS1900	512	2	4	20.82	21.72	33.00	PASS
EGPRS1900	661	2	1	27.34	28.24	33.00	PASS
EGPRS1900	661	2	2	25.50	26.4	33.00	PASS
EGPRS1900	661	2	3	23.38	24.28	33.00	PASS
EGPRS1900	661	2	4	21.42	22.32	33.00	PASS
EGPRS1900	810	2	1	27.44	28.34	33.00	PASS
EGPRS1900	810	2	2	25.50	26.4	33.00	PASS
EGPRS1900	810	2	3	23.17	24.07	33.00	PASS
EGPRS1900	810	2	4	21.37	22.27	33.00	PASS

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

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

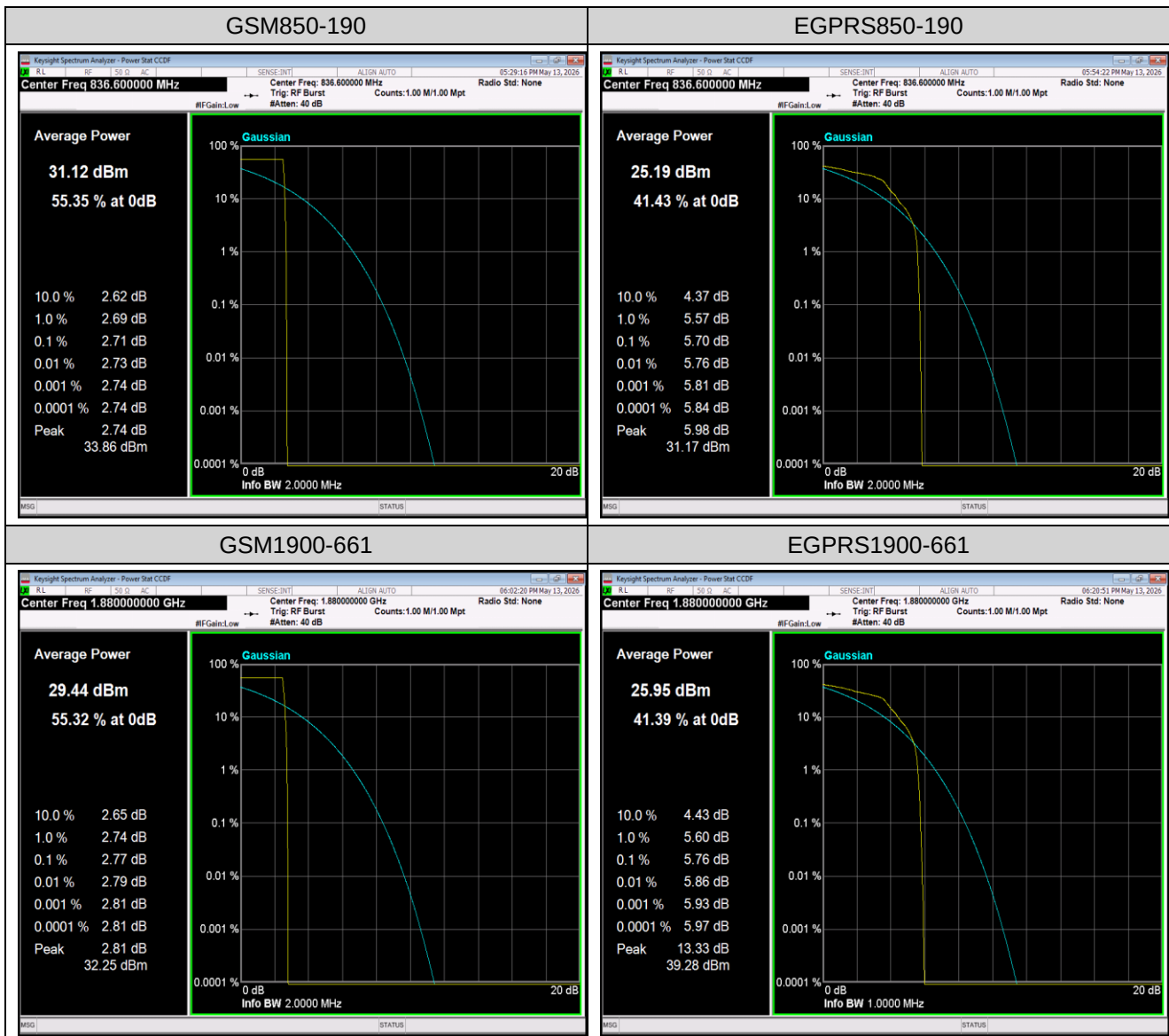
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.71	13	PASS
EGPRS850	190	8	5.7	13	PASS
GSM1900	661	0	2.77	13	PASS
EGPRS1900	661	2	5.76	13	PASS

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

Test Graphs

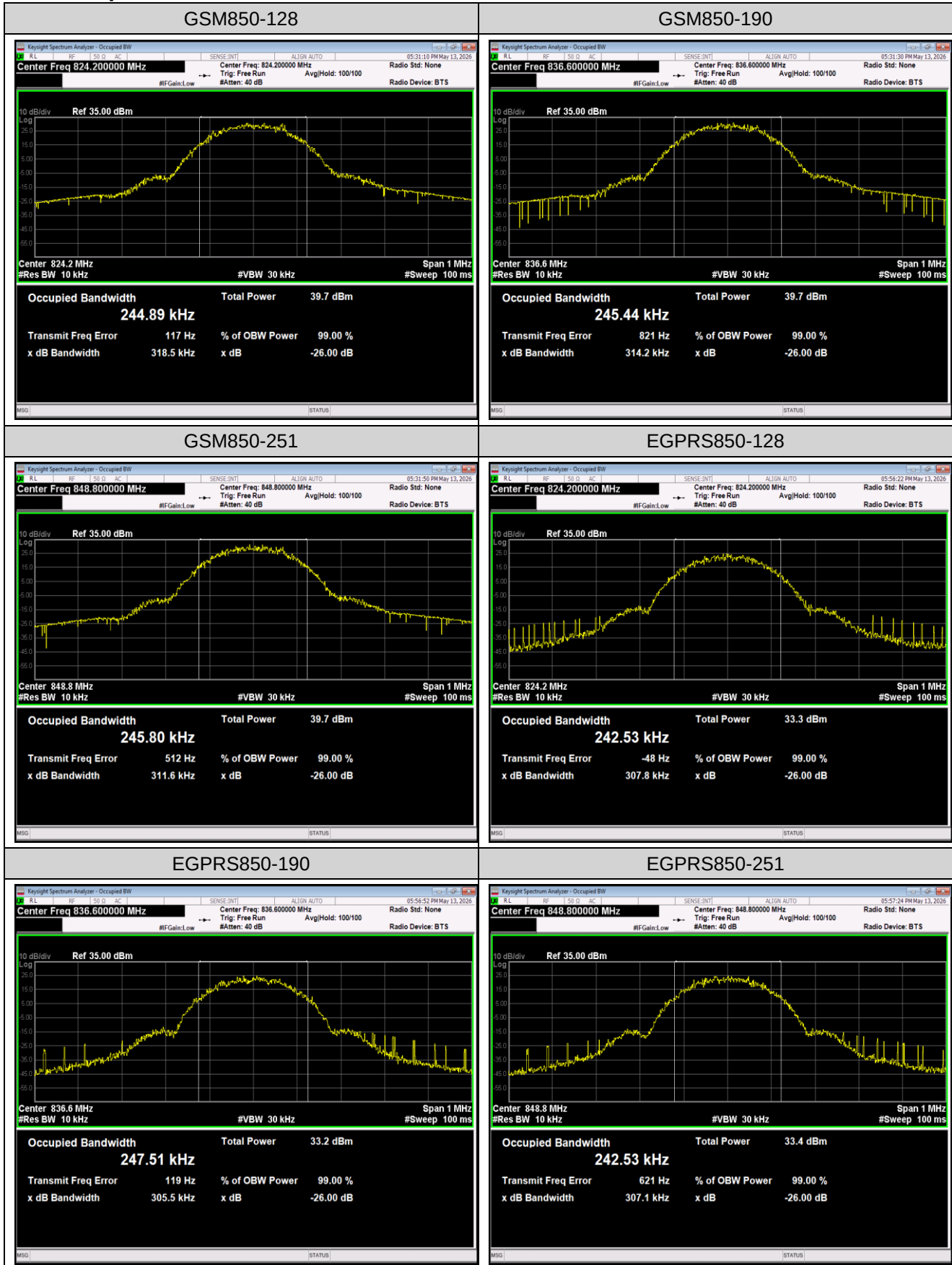


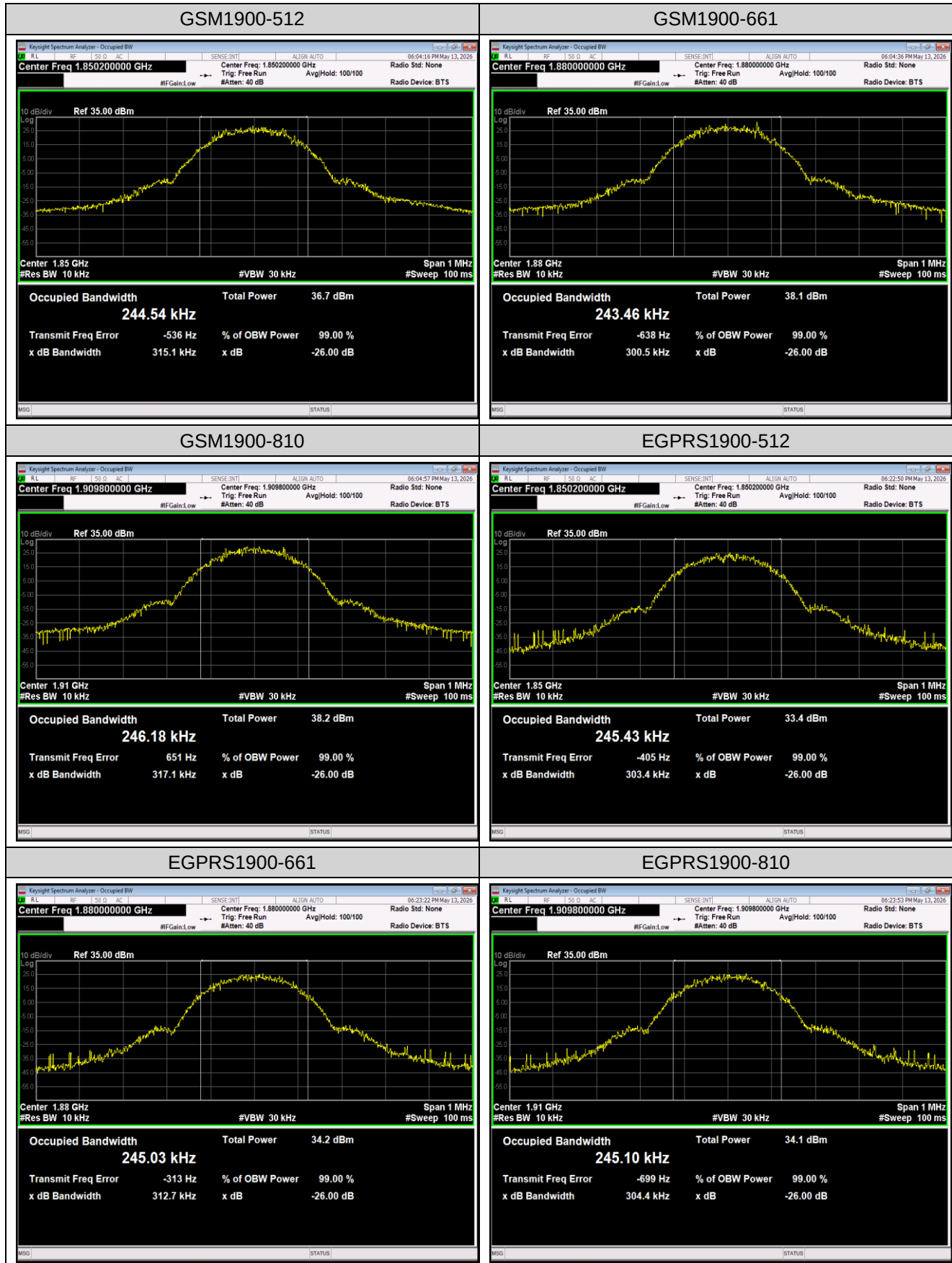
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24489	0.3185	---	PASS
GSM850	190	5	0.24544	0.3142	---	PASS
GSM850	251	5	0.24580	0.3116	---	PASS
EGPRS850	128	8	0.24253	0.3078	---	PASS
EGPRS850	190	8	0.24751	0.3055	---	PASS
EGPRS850	251	8	0.24253	0.3071	---	PASS
GSM1900	512	0	0.24454	0.3151	---	PASS
GSM1900	661	0	0.24346	0.3005	---	PASS
GSM1900	810	0	0.24618	0.3171	---	PASS
EGPRS1900	512	2	0.24543	0.3034	---	PASS
EGPRS1900	661	2	0.24503	0.3127	---	PASS
EGPRS1900	810	2	0.24510	0.3044	---	PASS

Test Graphs



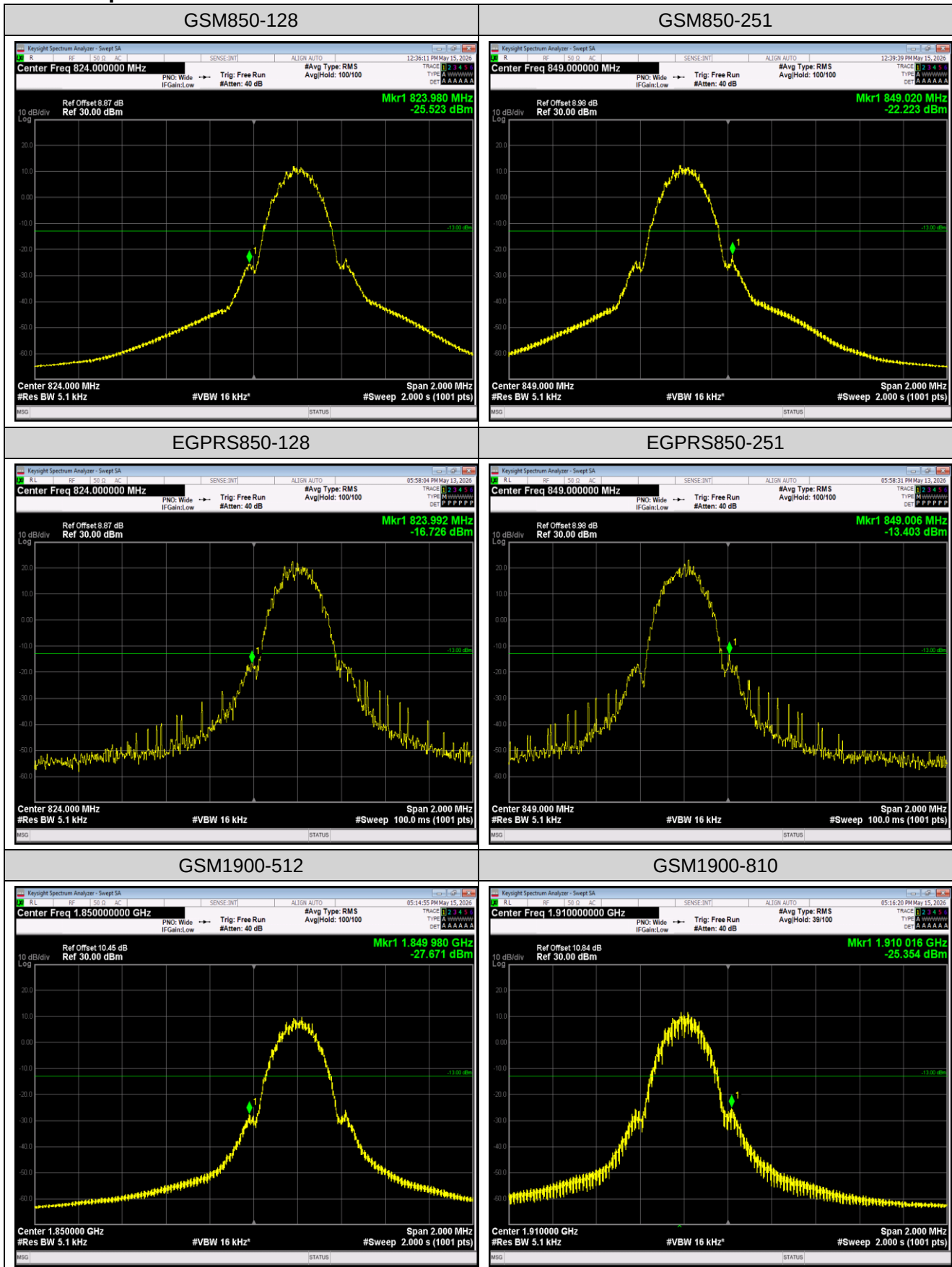


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-25.52	-13	PASS
GSM850	251	5	849.02	-22.22	-13	PASS
EGPRS850	128	8	823.99	-16.73	-13	PASS
EGPRS850	251	8	849.01	-13.40	-13	PASS
GSM1900	512	0	1849.98	-27.67	-13	PASS
GSM1900	810	0	1910.02	-25.35	-13	PASS
EGPRS1900	512	2	1849.98	-14.97	-13	PASS
EGPRS1900	810	2	1910.03	-15.59	-13	PASS

Test Graphs

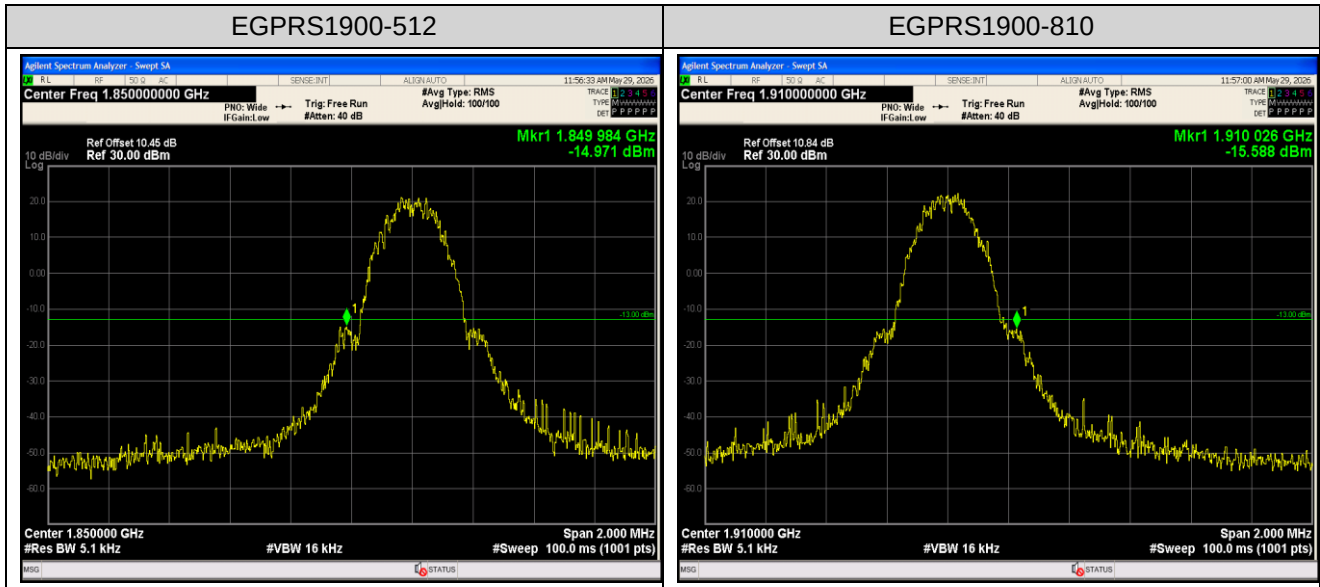


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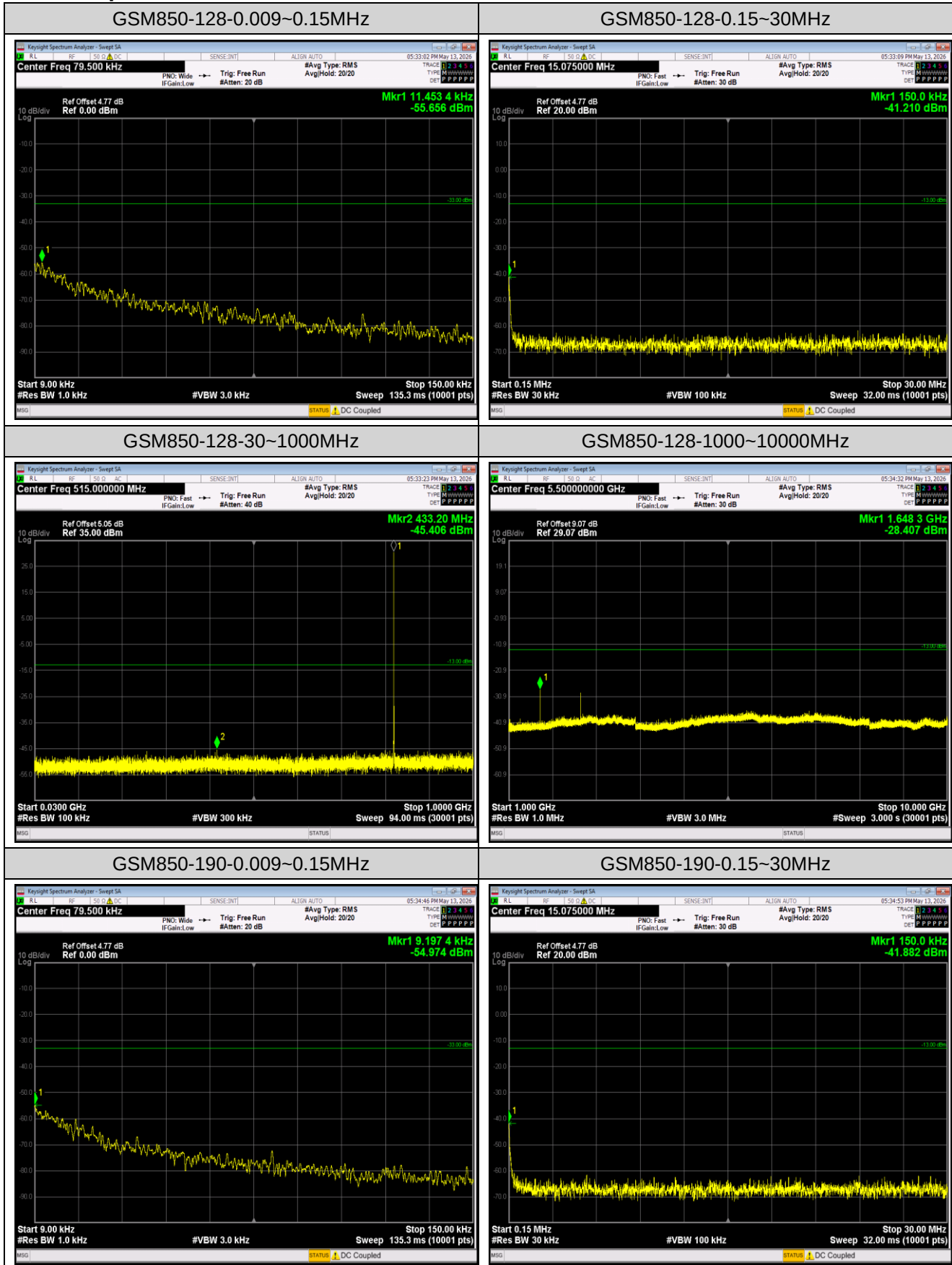
Appendix E: Conducted Spurious Emission

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	-55.66	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.21	-13	PASS
GSM850	128	5	30~1000MHz	433.2	-45.41	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-28.41	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.97	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-41.88	-13	PASS
GSM850	190	5	30~1000MHz	454.44	-45.54	-13	PASS
GSM850	190	5	1000~10000MHz	1673.5	-29.23	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.25	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-41.86	-13	PASS
GSM850	251	5	30~1000MHz	963.82	-45.58	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-28.79	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.12	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-44.19	-23	PASS
GSM1900	512	0	30~1000MHz	905.65	-45.07	-13	PASS
GSM1900	512	0	1000~18000MHz	16848.53	-21.44	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.33	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-44.19	-23	PASS
GSM1900	661	0	30~1000MHz	940.38	-45.07	-13	PASS
GSM1900	661	0	1000~18000MHz	16289.8	-22.02	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.94	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.79	-23	PASS
GSM1900	810	0	30~1000MHz	826.79	-44.7	-13	PASS
GSM1900	810	0	1000~18000MHz	17002.1	-21.36	-13	PASS

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

Test Graphs

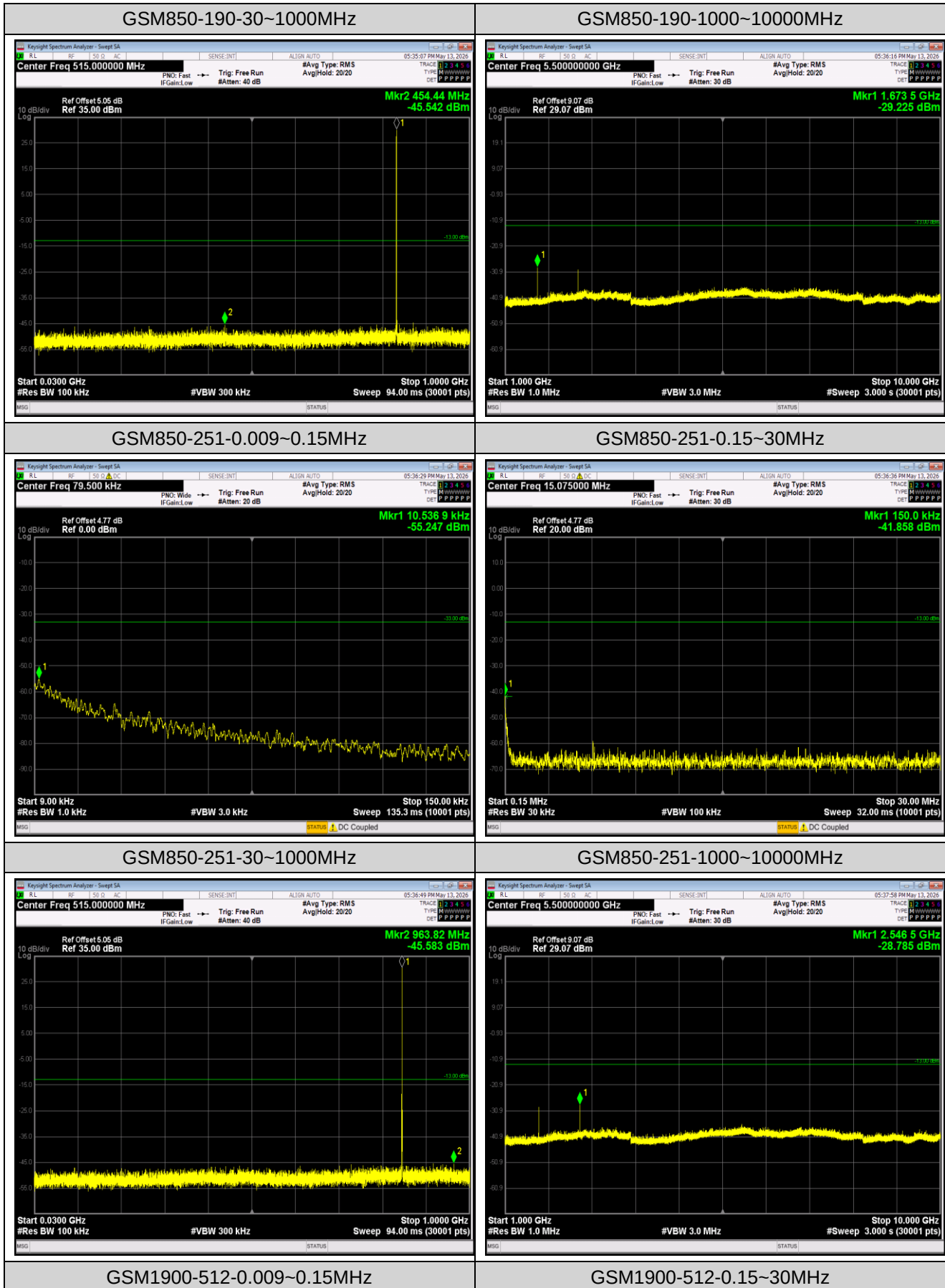


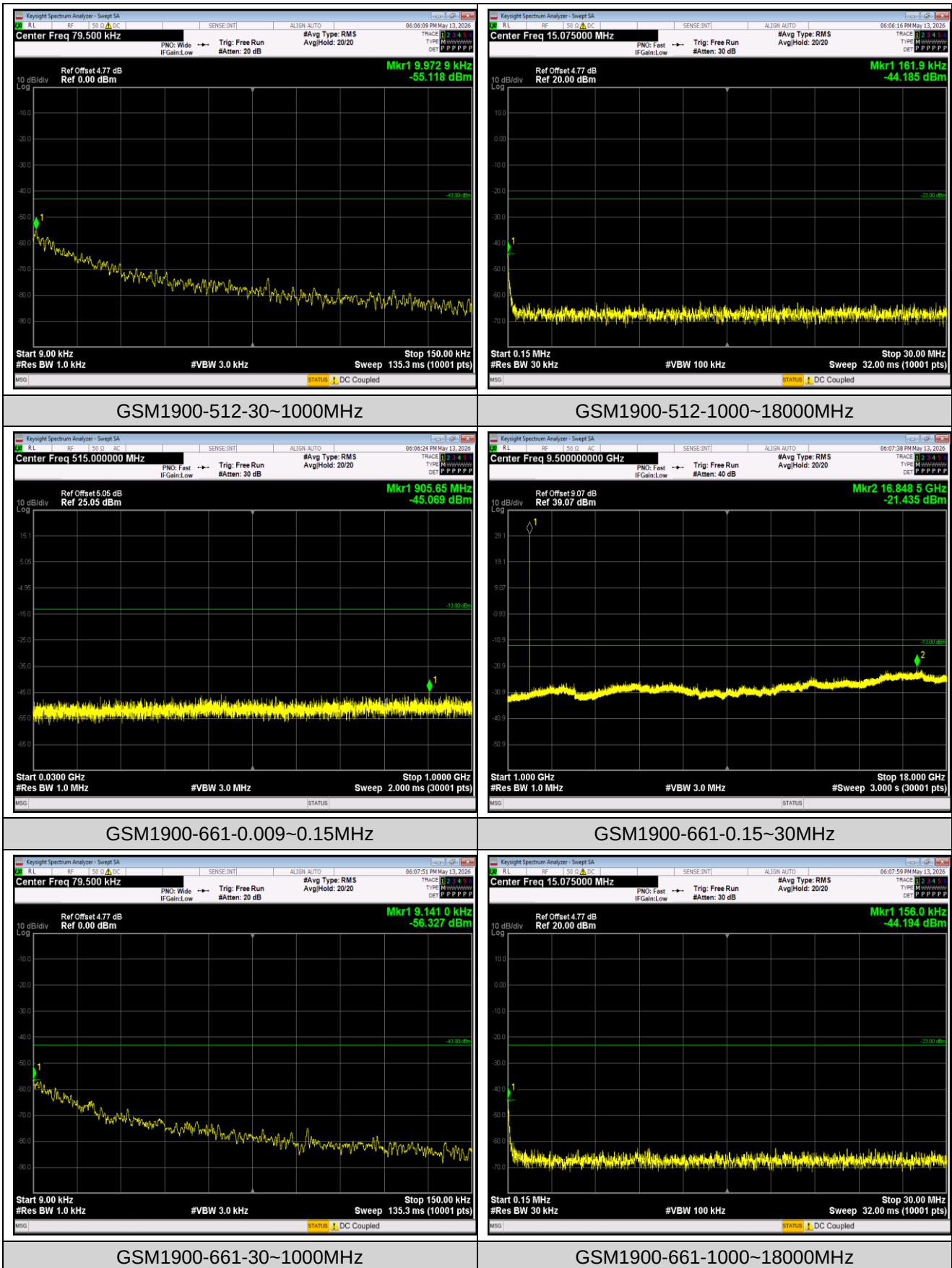
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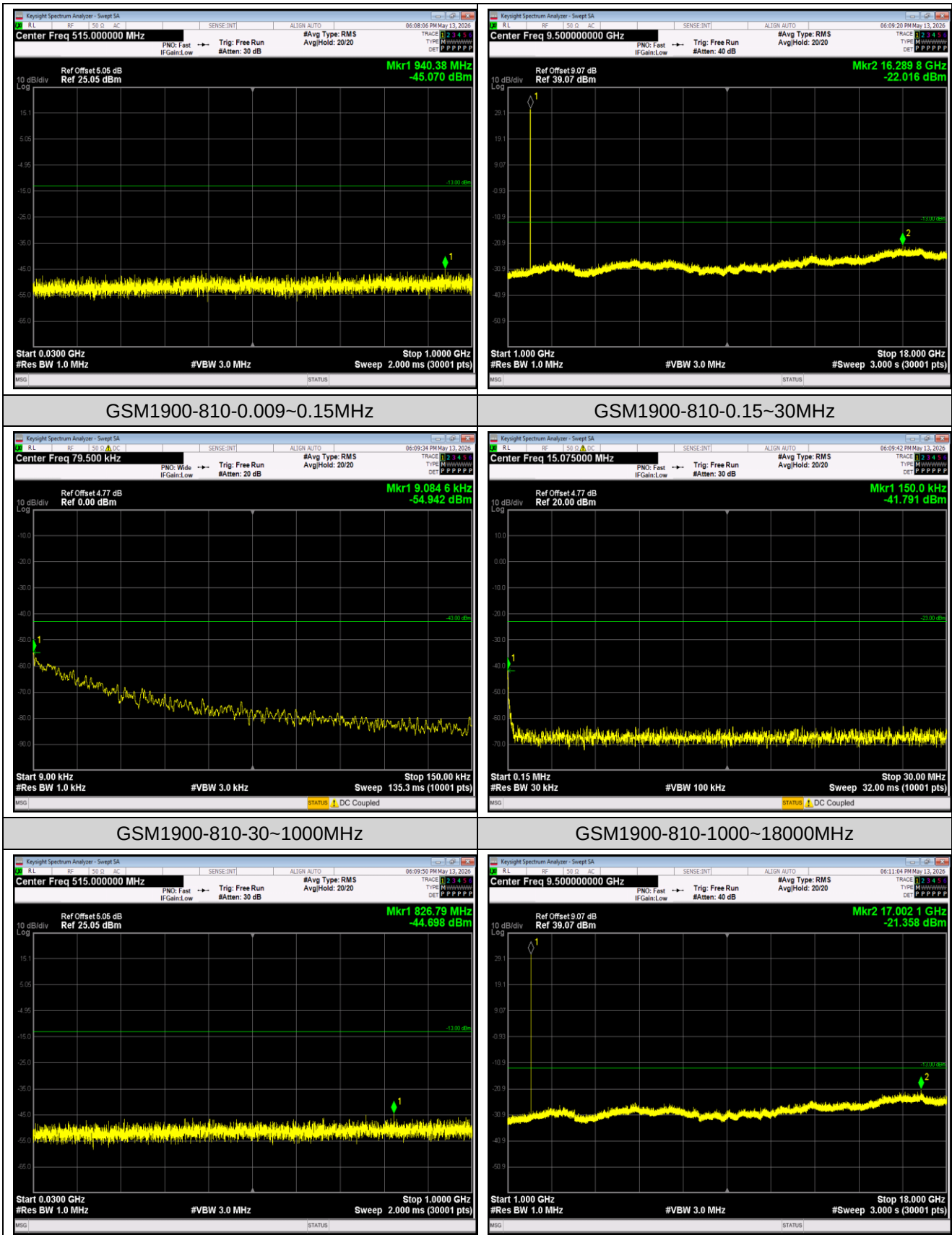
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Appendix F: Frequency Stability

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	6.59	0.007877	±2.5	Pass
	-20	7.85	0.009383		
	-10	0.68	0.000813		
	0	3.03	0.003622		
	10	1.87	0.002235		
	20	8.49	0.010148		
	30	-0.39	-0.000466		
	40	-1.13	-0.001351		
	50	-0.39	-0.000466		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	3.55	0.004243	±2.5	Pass
	3.85	4.33	0.005176		
	4.40	4.00	0.004781		
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		
3.85	-30	1.71	0.002044	±2.5	Pass
	-20	6.07	0.007256		
	-10	3.58	0.004279		
	0	3.87	0.004626		
	10	5.81	0.006945		
	20	3.10	0.003705		
	30	-1.00	-0.001195		
	40	1.55	0.001853		
	50	4.39	0.005247		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	1.81	0.002164	±2.5	Pass
	3.85	1.58	0.001889		
	4.40	3.71	0.004435		
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		
3.85	-30	21.34	0.011351	Within authorized band for PCS 1900	Pass
	-20	20.82	0.011074		
	-10	20.82	0.011074		
	0	26.15	0.013910		
	10	19.66	0.010457		
	20	18.60	0.009894		
	30	20.11	0.010697		
	40	16.11	0.008569		
	50	15.95	0.008484		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	20.99	0.011165	Within authorized band for PCS 1900	Pass
	3.85	25.02	0.013309		
	4.40	25.05	0.013324		
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	-12.85	-0.006835	Within authorized band for PCS 1900	Pass
	-20	-6.59	-0.003505		
	-10	-5.75	-0.003059		
	0	8.59	0.004569		
	10	9.43	0.005016		
	20	-0.90	-0.000479		
	30	-9.33	-0.004963		
	40	2.13	0.001133		
	50	-1.19	-0.000633		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	7.49	0.003984	Within authorized band for PCS 1900	Pass
	3.85	2.55	0.001356		
	4.40	-2.29	-0.001218		
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

