

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	32.43	30.68	38.45	PASS
GSM850	190	5	32.55	30.8	38.45	PASS
GSM850	251	5	32.37	30.62	38.45	PASS
GSM1900	512	0	29.26	30.06	33.00	PASS
GSM1900	661	0	29.31	30.11	33.00	PASS
GSM1900	810	0	29.32	30.12	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.43	30.68	38.45	PASS
GPRS850	128	5	2	32.25	30.5	38.45	PASS
GPRS850	128	5	3	31.37	29.62	38.45	PASS
GPRS850	128	5	4	29.49	27.74	38.45	PASS
GPRS850	190	5	1	32.58	30.83	38.45	PASS
GPRS850	190	5	2	32.40	30.65	38.45	PASS
GPRS850	190	5	3	31.50	29.75	38.45	PASS
GPRS850	190	5	4	29.63	27.88	38.45	PASS
GPRS850	251	5	1	32.38	30.63	38.45	PASS
GPRS850	251	5	2	32.19	30.44	38.45	PASS
GPRS850	251	5	3	31.28	29.53	38.45	PASS
GPRS850	251	5	4	29.40	27.65	38.45	PASS
GPRS1900	512	0	1	29.29	30.09	33.00	PASS
GPRS1900	512	0	2	29.06	29.86	33.00	PASS
GPRS1900	512	0	3	28.17	28.97	33.00	PASS
GPRS1900	512	0	4	26.27	27.07	33.00	PASS
GPRS1900	661	0	1	29.31	30.11	33.00	PASS
GPRS1900	661	0	2	29.07	29.87	33.00	PASS
GPRS1900	661	0	3	28.17	28.97	33.00	PASS
GPRS1900	661	0	4	26.26	27.06	33.00	PASS
GPRS1900	810	0	1	29.31	30.11	33.00	PASS
GPRS1900	810	0	2	29.07	29.87	33.00	PASS
GPRS1900	810	0	3	28.21	29.01	33.00	PASS
GPRS1900	810	0	4	26.20	27	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	28.44	26.69	38.45	PASS
EGPRS850	128	8	2	26.55	24.8	38.45	PASS
EGPRS850	128	8	3	24.66	22.91	38.45	PASS
EGPRS850	128	8	4	22.07	20.32	38.45	PASS
EGPRS850	190	8	1	27.54	25.79	38.45	PASS
EGPRS850	190	8	2	26.15	24.4	38.45	PASS
EGPRS850	190	8	3	23.56	21.81	38.45	PASS
EGPRS850	190	8	4	21.57	19.82	38.45	PASS
EGPRS850	251	8	1	28.60	26.85	38.45	PASS
EGPRS850	251	8	2	26.79	25.04	38.45	PASS
EGPRS850	251	8	3	24.87	23.12	38.45	PASS
EGPRS850	251	8	4	22.31	20.56	38.45	PASS
EGPRS1900	512	2	1	26.49	27.29	33.00	PASS
EGPRS1900	512	2	2	24.75	25.55	33.00	PASS
EGPRS1900	512	2	3	22.41	23.21	33.00	PASS
EGPRS1900	512	2	4	19.93	20.73	33.00	PASS
EGPRS1900	661	2	1	27.00	27.8	33.00	PASS
EGPRS1900	661	2	2	25.26	26.06	33.00	PASS
EGPRS1900	661	2	3	22.81	23.61	33.00	PASS
EGPRS1900	661	2	4	20.42	21.22	33.00	PASS
EGPRS1900	810	2	1	27.05	27.85	33.00	PASS
EGPRS1900	810	2	2	25.33	26.13	33.00	PASS
EGPRS1900	810	2	3	22.97	23.77	33.00	PASS
EGPRS1900	810	2	4	20.57	21.37	33.00	PASS

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

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

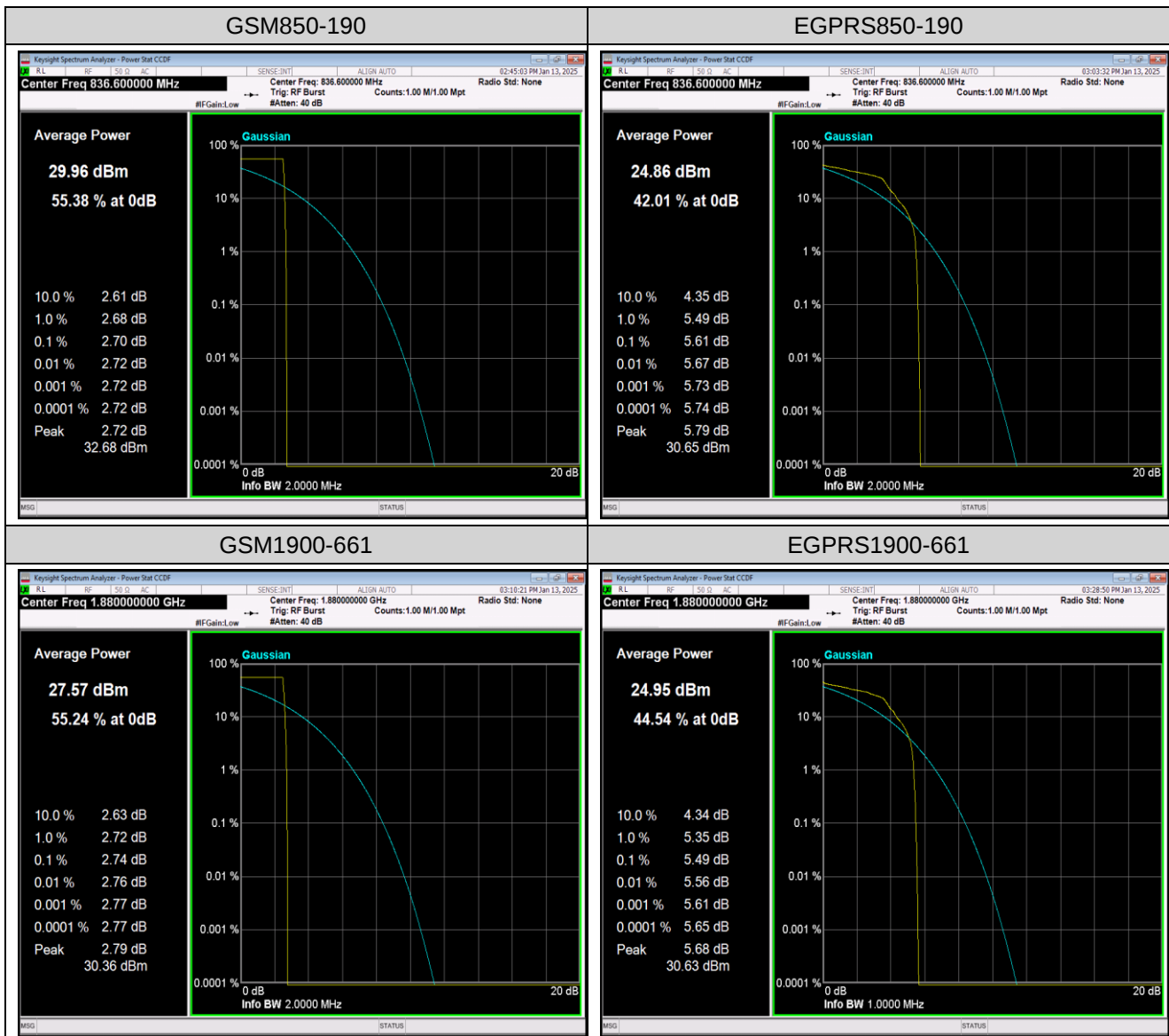
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.7	13	PASS
EGPRS850	190	8	5.61	13	PASS
GSM1900	661	0	2.74	13	PASS
EGPRS1900	661	2	5.49	13	PASS

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

Test Graphs

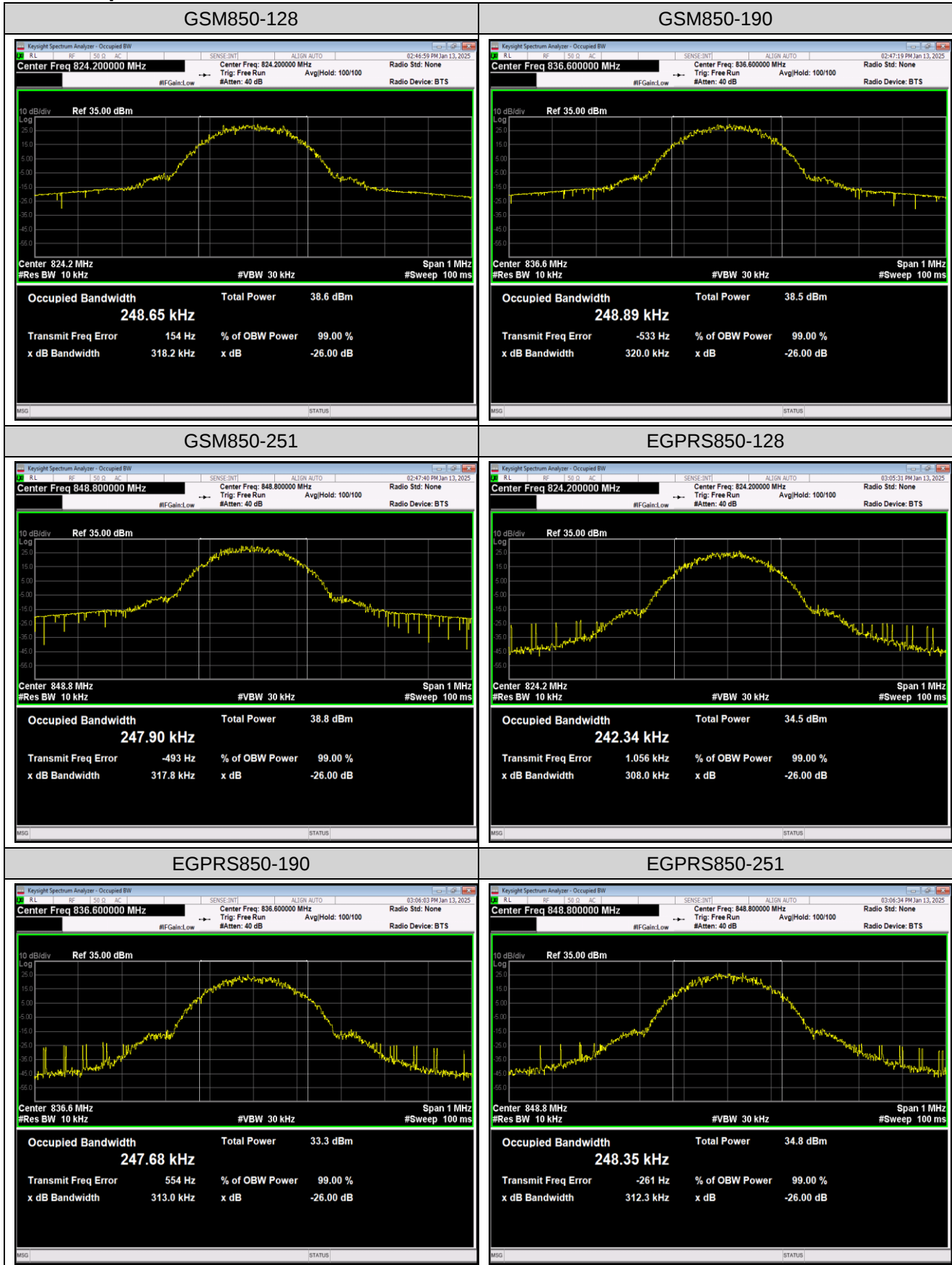


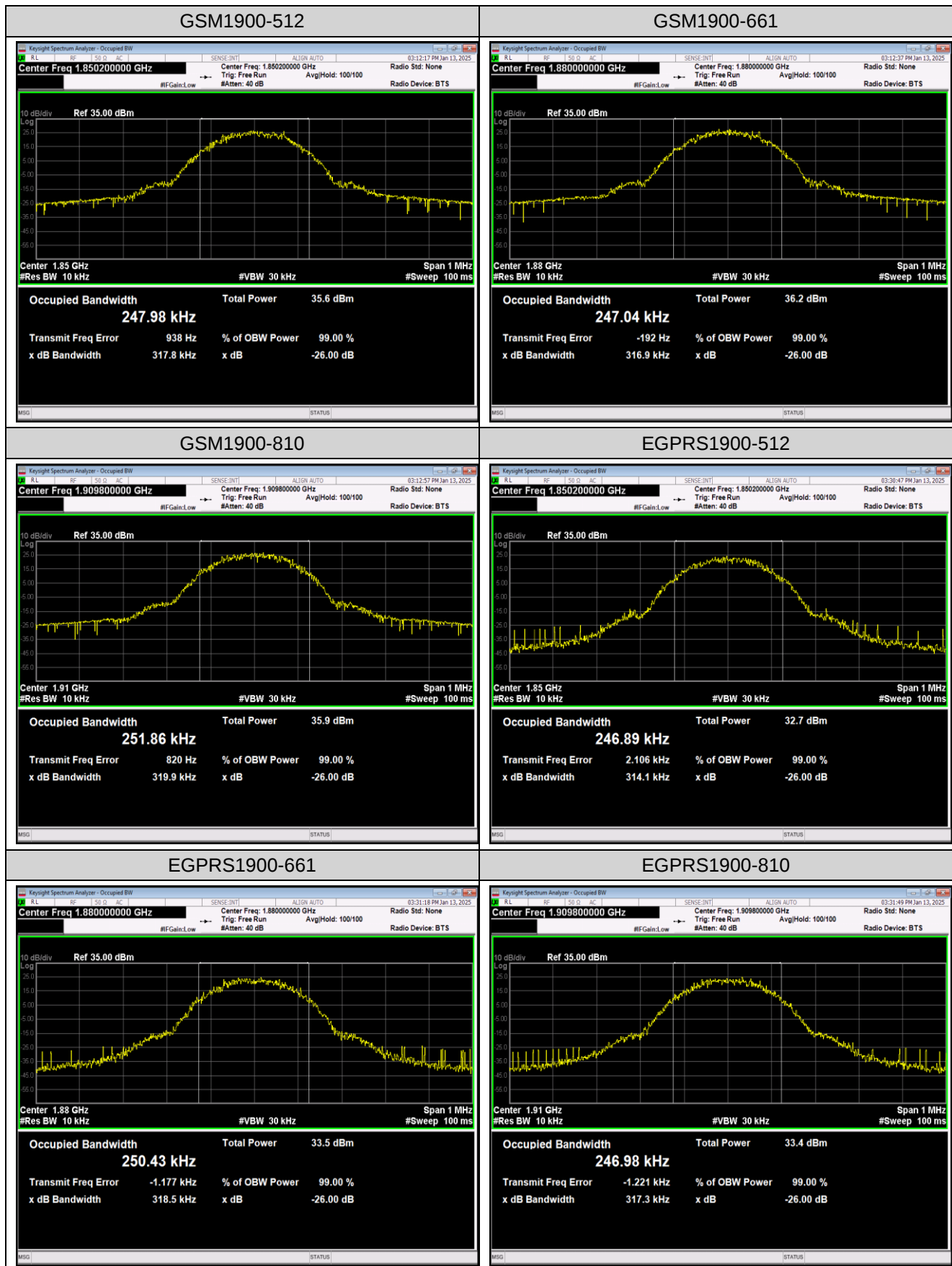
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24865	0.3182	---	PASS
GSM850	190	5	0.24889	0.3200	---	PASS
GSM850	251	5	0.24790	0.3178	---	PASS
EGPRS850	128	8	0.24234	0.3080	---	PASS
EGPRS850	190	8	0.24768	0.3130	---	PASS
EGPRS850	251	8	0.24835	0.3123	---	PASS
GSM1900	512	0	0.24798	0.3178	---	PASS
GSM1900	661	0	0.24704	0.3169	---	PASS
GSM1900	810	0	0.25186	0.3199	---	PASS
EGPRS1900	512	2	0.24689	0.3141	---	PASS
EGPRS1900	661	2	0.25043	0.3185	---	PASS
EGPRS1900	810	2	0.24698	0.3173	---	PASS

Test Graphs



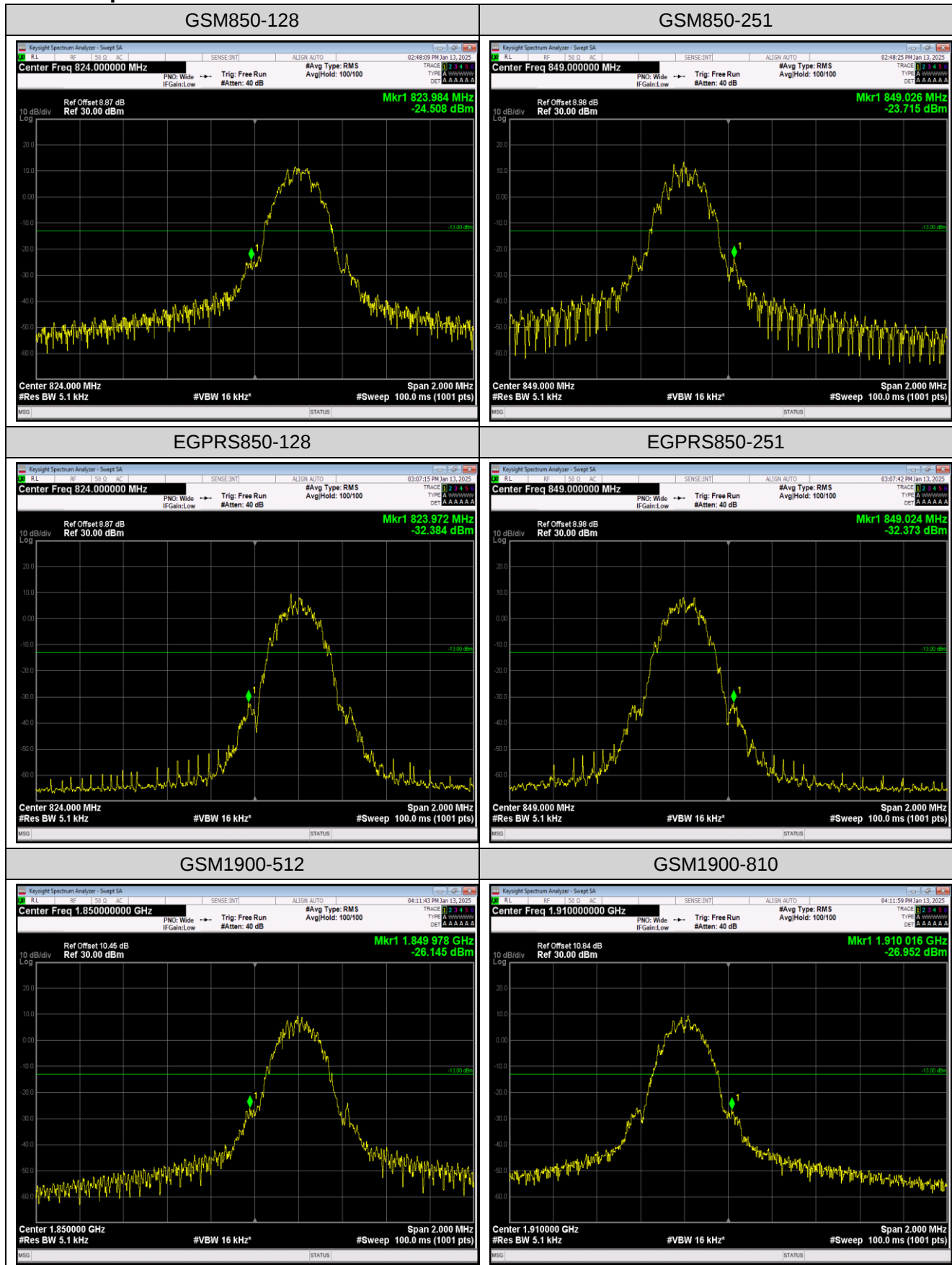


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.51	-13	PASS
GSM850	251	5	849.03	-23.71	-13	PASS
EGPRS850	128	8	823.97	-32.38	-13	PASS
EGPRS850	251	8	849.02	-32.37	-13	PASS
GSM1900	512	0	1849.98	-26.15	-13	PASS
GSM1900	810	0	1910.02	-26.95	-13	PASS
EGPRS1900	512	2	1849.97	-19.84	-13	PASS
EGPRS1900	810	2	1910.01	-17.60	-13	PASS

Test Graphs

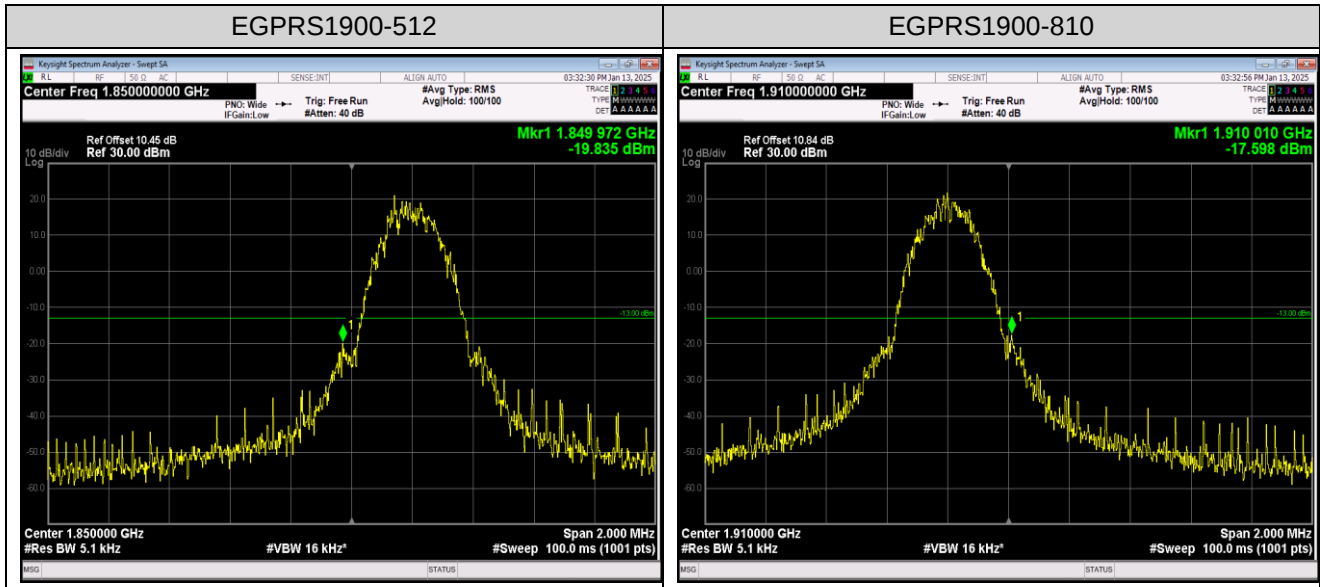


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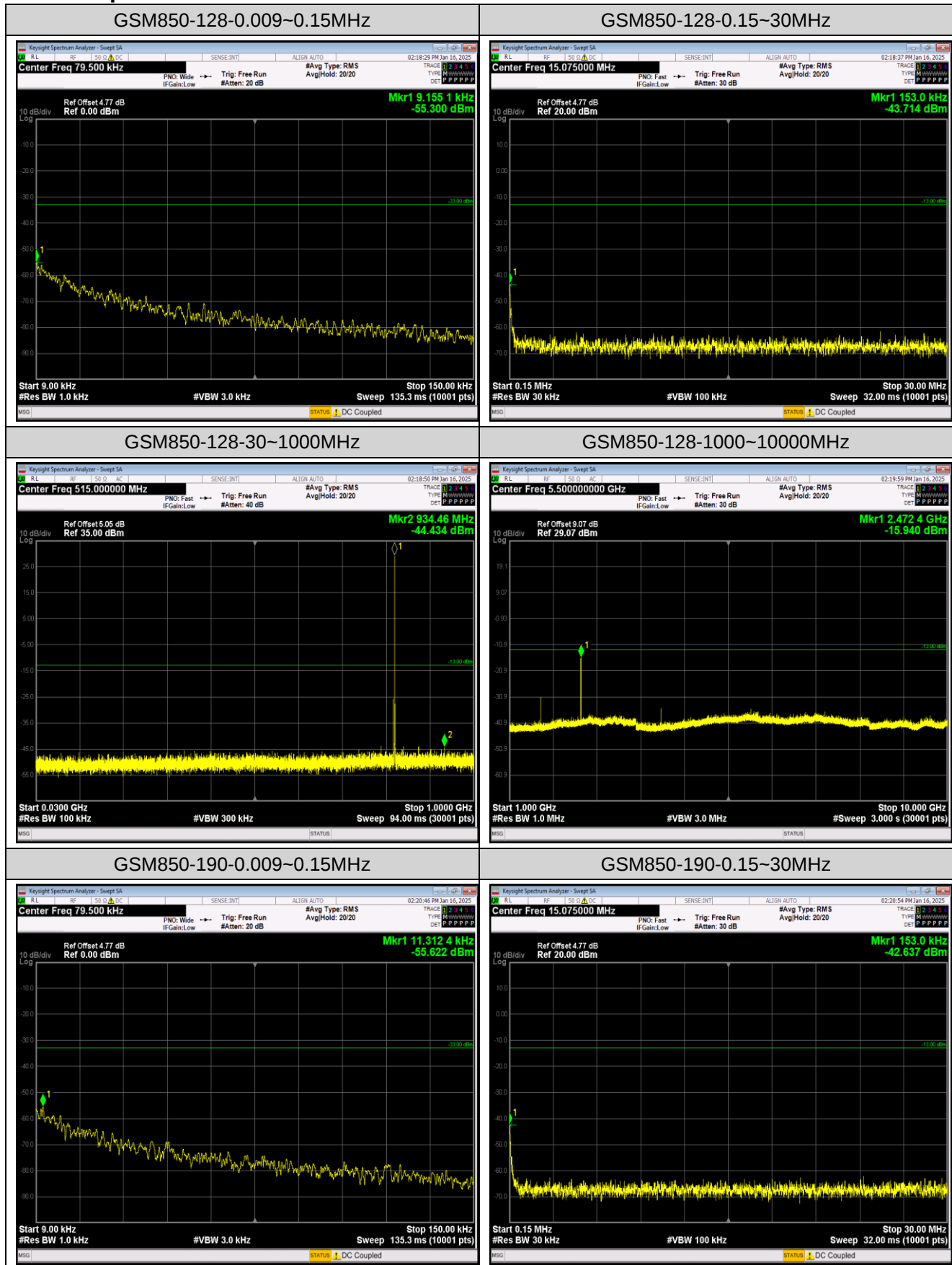
Appendix E: Conducted Spurious Emission

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	-55.3	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-43.71	-13	PASS
GSM850	128	5	30~1000MHz	934.46	-44.43	-13	PASS
GSM850	128	5	1000~10000MHz	2472.4	-15.94	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.62	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.64	-13	PASS
GSM850	190	5	30~1000MHz	710.1	-44.91	-13	PASS
GSM850	190	5	1000~10000MHz	2506.9	-15.07	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.03	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-43.46	-13	PASS
GSM850	251	5	30~1000MHz	990.17	-43.33	-13	PASS
GSM850	251	5	1000~10000MHz	2545.9	-13.13	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-57.16	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-41.35	-23	PASS
GSM1900	512	0	30~1000MHz	915.71	-44.69	-13	PASS
GSM1900	512	0	1000~18000MHz	16986.23	-21.93	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.8	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.18	-23	PASS
GSM1900	661	0	30~1000MHz	805.42	-45.55	-13	PASS
GSM1900	661	0	1000~18000MHz	17072.37	-22.24	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.87	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-42.85	-23	PASS
GSM1900	810	0	30~1000MHz	810.07	-44.59	-13	PASS
GSM1900	810	0	1000~18000MHz	16857.6	-22.49	-13	PASS

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

Test Graphs

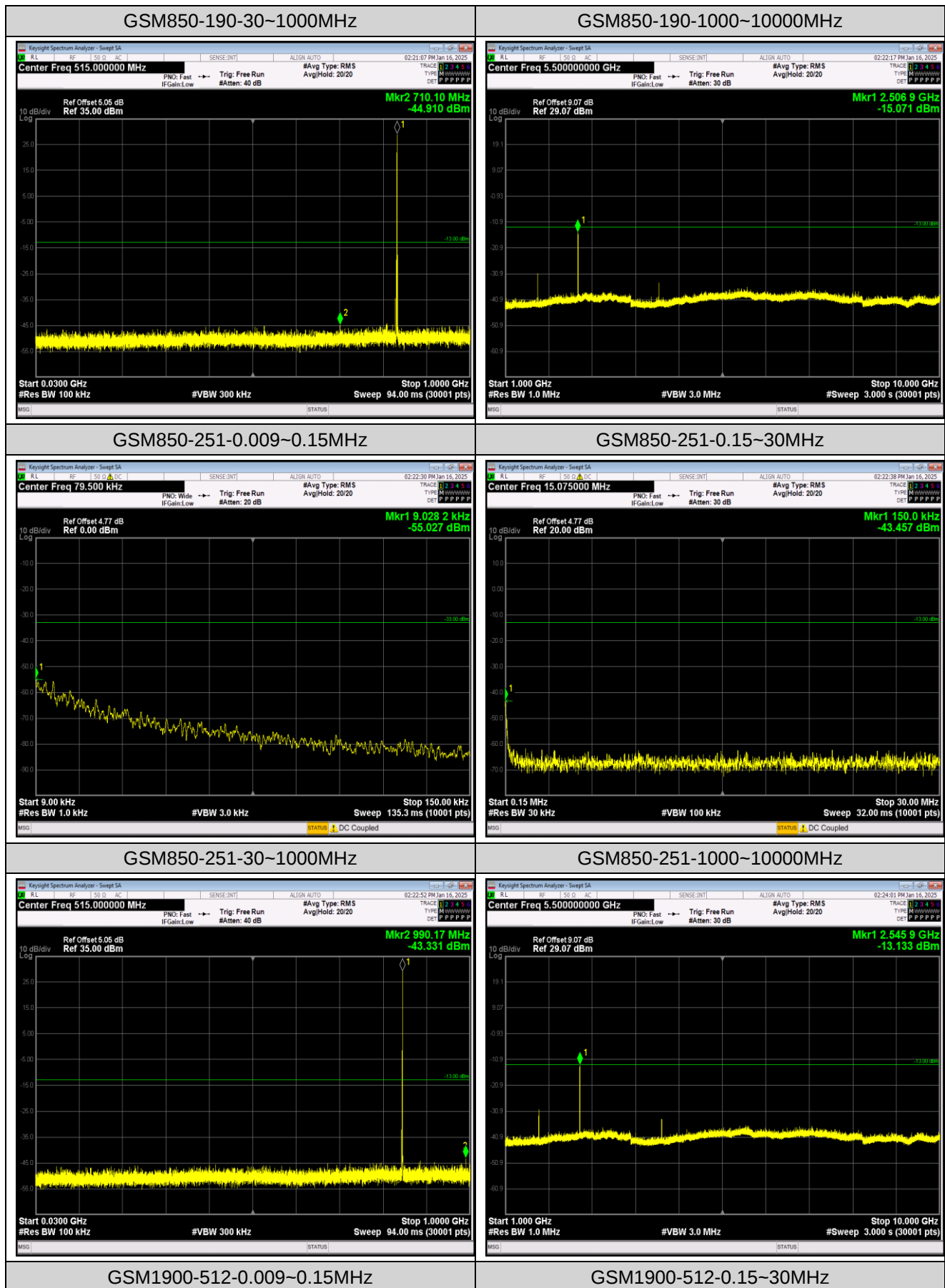


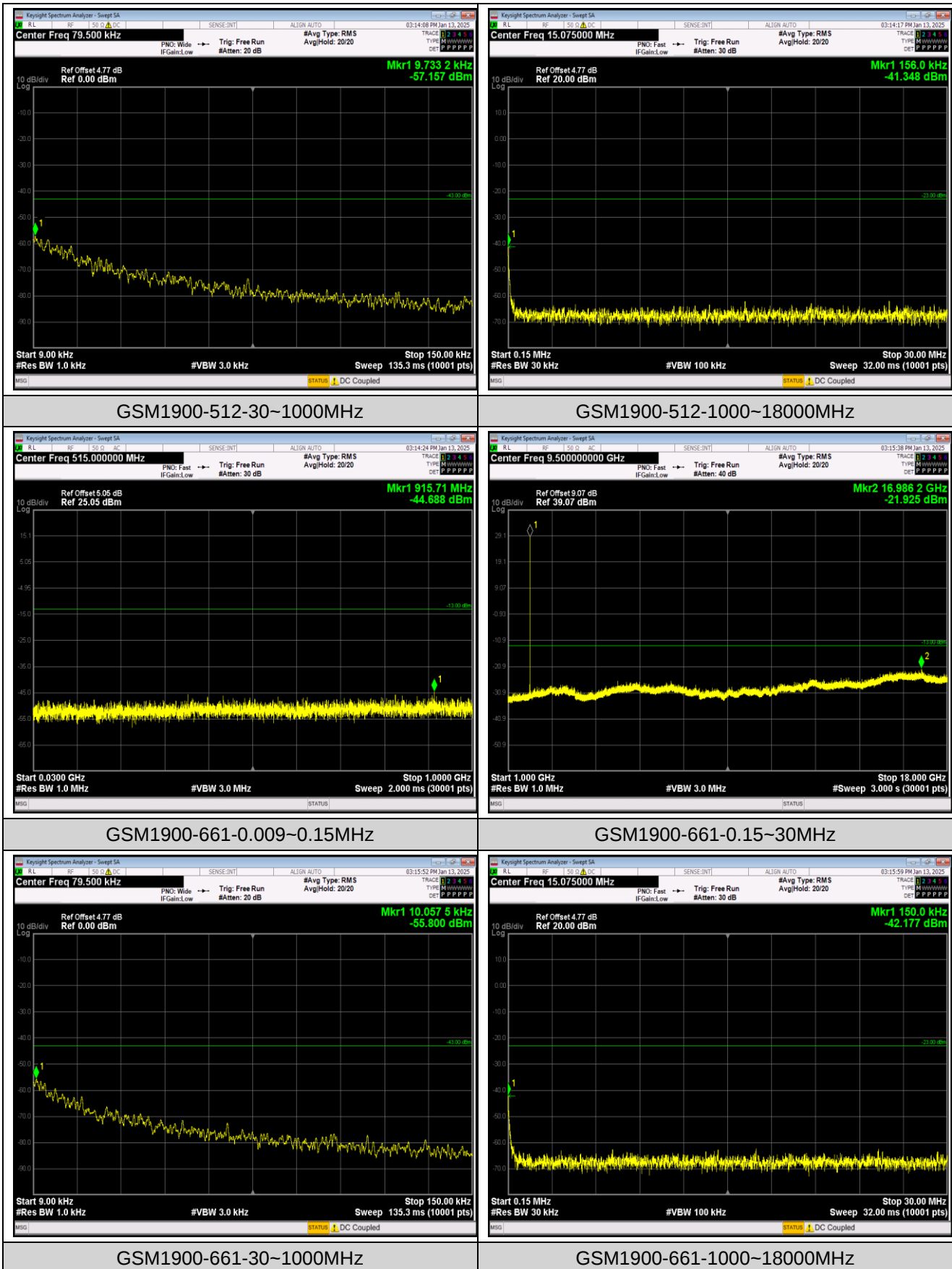
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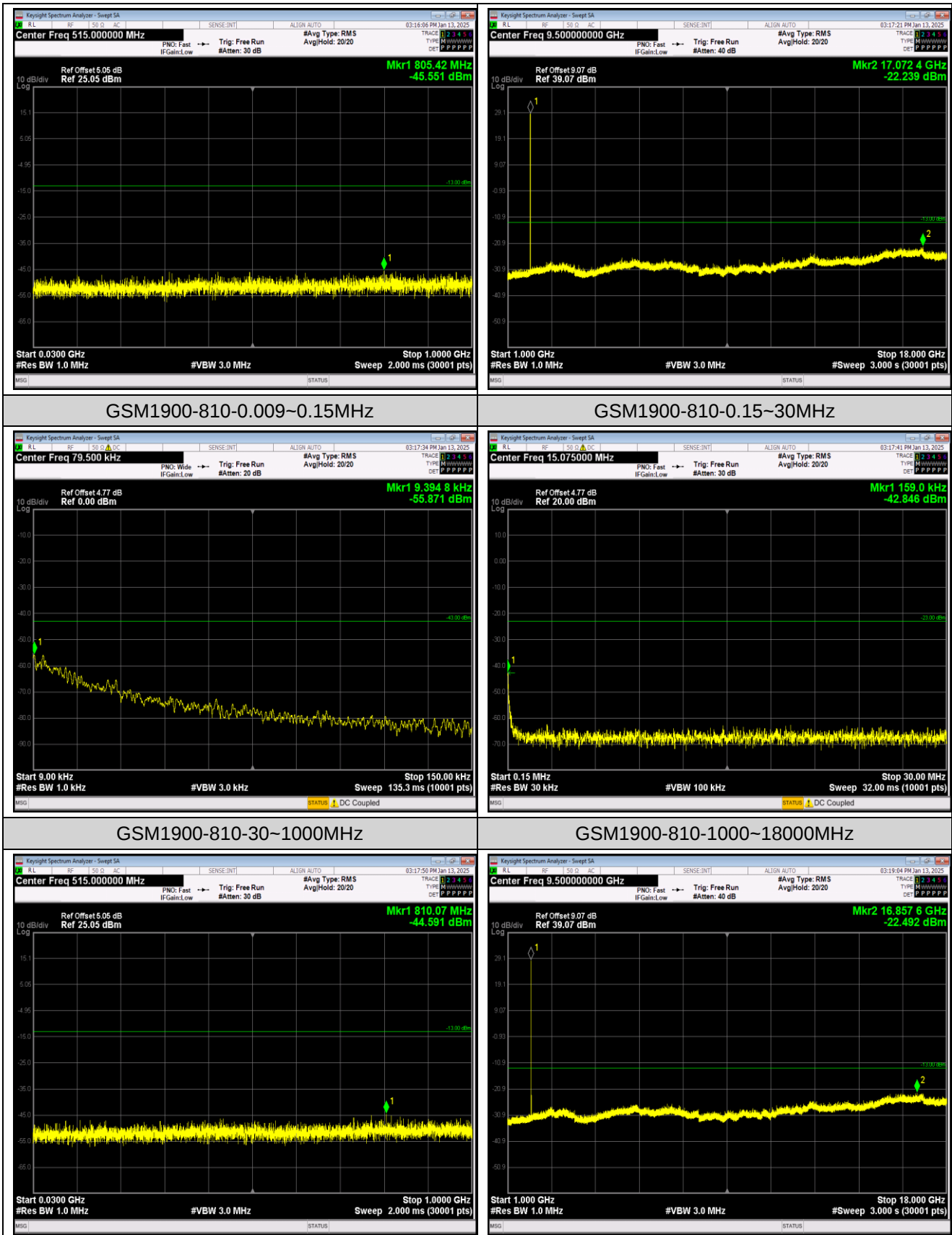
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-2.32	-0.002773	±2.5	Pass
	-20	-4.13	-0.004937		
	-10	9.46	0.011308		
	0	-8.72	-0.010423		
	10	1.55	0.001853		
	20	-0.36	-0.000430		
	30	4.91	0.005869		
	40	-0.03	-0.000036		
	50	1.10	0.001315		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-4.55	-0.005439	±2.5	Pass
	3.70	1.94	0.002319		
	4.20	-8.88	-0.010614		
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		
3.70	-30	1.29	0.001542	±2.5	Pass
	-20	4.84	0.005785		
	-10	-3.75	-0.004482		
	0	-7.78	-0.009300		
	10	-17.11	-0.020452		
	20	5.71	0.006825		
	30	-1.13	-0.001351		
	40	-1.13	-0.001351		
	50	-5.65	-0.006754		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	9.43	0.011272	±2.5	Pass
	3.70	2.29	0.002737		
	4.20	-2.94	-0.003514		
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		
3.70	-30	8.23	0.004378	Within authorized band for PCS 1900	Pass
	-20	-4.04	-0.002149		
	-10	5.52	0.002936		
	0	-22.02	-0.011713		
	10	-8.68	-0.004617		
	20	7.75	0.004122		
	30	2.65	0.001410		
	40	-3.23	-0.001718		
	50	-1.71	-0.000910		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	13.20	0.007021	Within authorized band for PCS 1900	Pass
	3.70	-4.97	-0.002644		
	4.20	-22.99	-0.012229		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-1.58	-0.000840	Within authorized band for PCS 1900	Pass
	-20	-14.21	-0.007559		
	-10	2.55	0.001356		
	0	-1.03	-0.000548		
	10	-10.23	-0.005441		
	20	-19.79	-0.010527		
	30	-10.04	-0.005340		
	40	-16.53	-0.008793		
	50	-33.32	-0.017723		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-20.76	-0.011043	Within authorized band for PCS 1900	Pass
	3.70	-3.55	-0.001888		
	4.20	-7.75	-0.004122		
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

