

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	33.02	31.37	38.45	PASS
GSM850	190	5	33.07	31.42	38.45	PASS
GSM850	251	5	33.10	31.45	38.45	PASS
GSM1900	512	0	29.98	30.48	33.00	PASS
GSM1900	661	0	29.76	30.26	33.00	PASS
GSM1900	810	0	29.76	30.26	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.05	31.4	38.45	PASS
GPRS850	128	5	2	32.83	31.18	38.45	PASS
GPRS850	128	5	3	31.92	30.27	38.45	PASS
GPRS850	128	5	4	30.04	28.39	38.45	PASS
GPRS850	190	5	1	33.08	31.43	38.45	PASS
GPRS850	190	5	2	32.86	31.21	38.45	PASS
GPRS850	190	5	3	31.97	30.32	38.45	PASS
GPRS850	190	5	4	30.13	28.48	38.45	PASS
GPRS850	251	5	1	33.08	31.43	38.45	PASS
GPRS850	251	5	2	32.86	31.21	38.45	PASS
GPRS850	251	5	3	31.96	30.31	38.45	PASS
GPRS850	251	5	4	30.07	28.42	38.45	PASS
GPRS1900	512	0	1	29.97	30.47	33.00	PASS
GPRS1900	512	0	2	29.69	30.19	33.00	PASS
GPRS1900	512	0	3	28.72	29.22	33.00	PASS
GPRS1900	512	0	4	26.82	27.32	33.00	PASS
GPRS1900	661	0	1	29.76	30.26	33.00	PASS
GPRS1900	661	0	2	29.43	29.93	33.00	PASS
GPRS1900	661	0	3	28.48	28.98	33.00	PASS
GPRS1900	661	0	4	26.51	27.01	33.00	PASS
GPRS1900	810	0	1	29.76	30.26	33.00	PASS
GPRS1900	810	0	2	29.39	29.89	33.00	PASS
GPRS1900	810	0	3	28.46	28.96	33.00	PASS
GPRS1900	810	0	4	26.43	26.93	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	28.48	26.83	38.45	PASS
EGPRS850	128	8	2	26.45	24.8	38.45	PASS
EGPRS850	128	8	3	24.40	22.75	38.45	PASS
EGPRS850	128	8	4	21.35	19.7	38.45	PASS
EGPRS850	190	8	1	28.59	26.94	38.45	PASS
EGPRS850	190	8	2	26.69	25.04	38.45	PASS
EGPRS850	190	8	3	24.58	22.93	38.45	PASS
EGPRS850	190	8	4	21.78	20.13	38.45	PASS
EGPRS850	251	8	1	27.67	26.02	38.45	PASS
EGPRS850	251	8	2	26.13	24.48	38.45	PASS
EGPRS850	251	8	3	23.38	21.73	38.45	PASS
EGPRS850	251	8	4	21.27	19.62	38.45	PASS
EGPRS1900	512	2	1	27.92	28.42	33.00	PASS
EGPRS1900	512	2	2	26.19	26.69	33.00	PASS
EGPRS1900	512	2	3	24.04	24.54	33.00	PASS
EGPRS1900	512	2	4	21.62	22.12	33.00	PASS
EGPRS1900	661	2	1	27.76	28.26	33.00	PASS
EGPRS1900	661	2	2	25.98	26.48	33.00	PASS
EGPRS1900	661	2	3	23.79	24.29	33.00	PASS
EGPRS1900	661	2	4	21.41	21.91	33.00	PASS
EGPRS1900	810	2	1	28.31	28.81	33.00	PASS
EGPRS1900	810	2	2	26.44	26.94	33.00	PASS
EGPRS1900	810	2	3	24.33	24.83	33.00	PASS
EGPRS1900	810	2	4	21.91	22.41	33.00	PASS

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

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

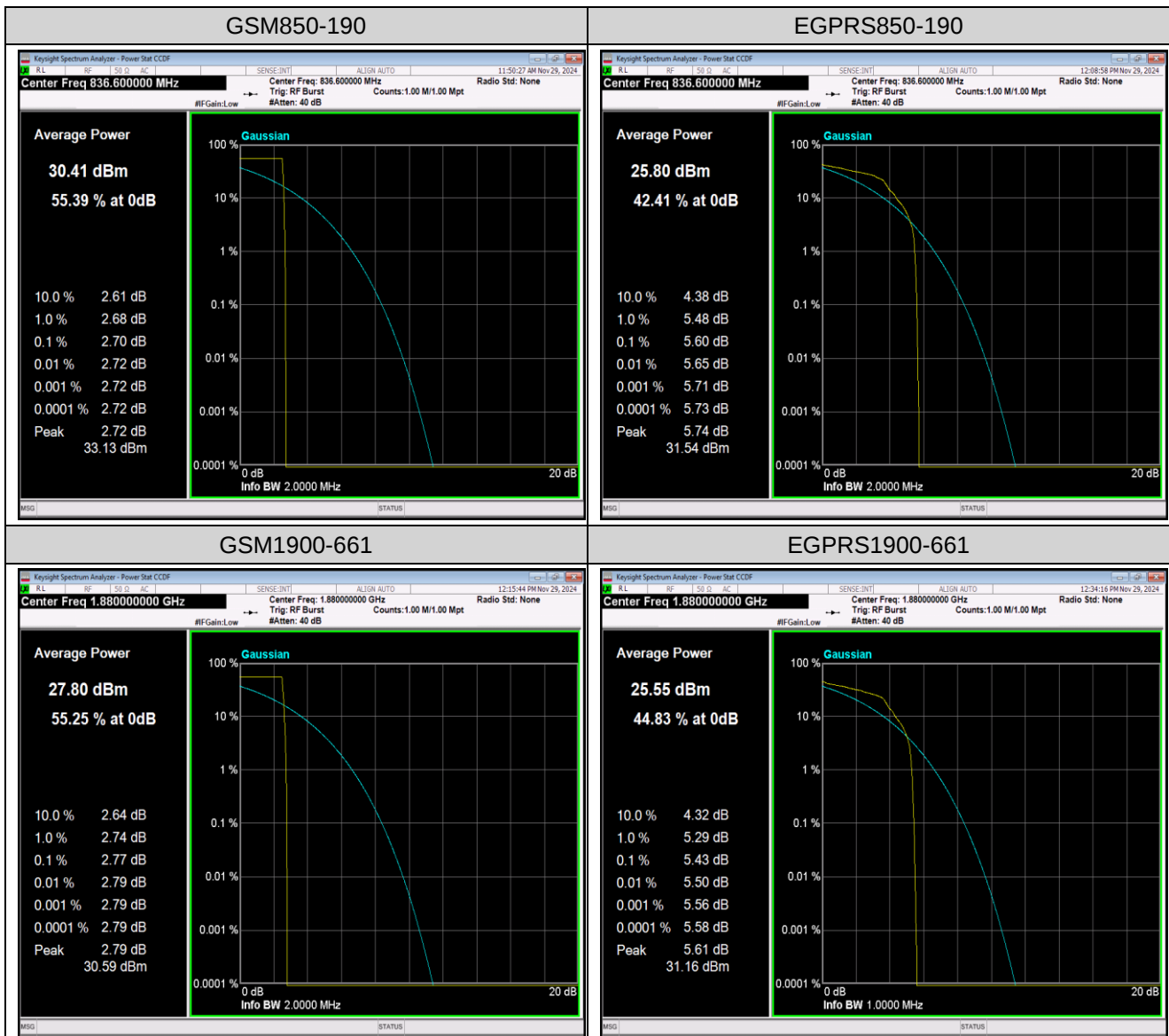
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.7	13	PASS
EGPRS850	190	8	5.6	13	PASS
GSM1900	661	0	2.77	13	PASS
EGPRS1900	661	2	5.43	13	PASS

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

Test Graphs

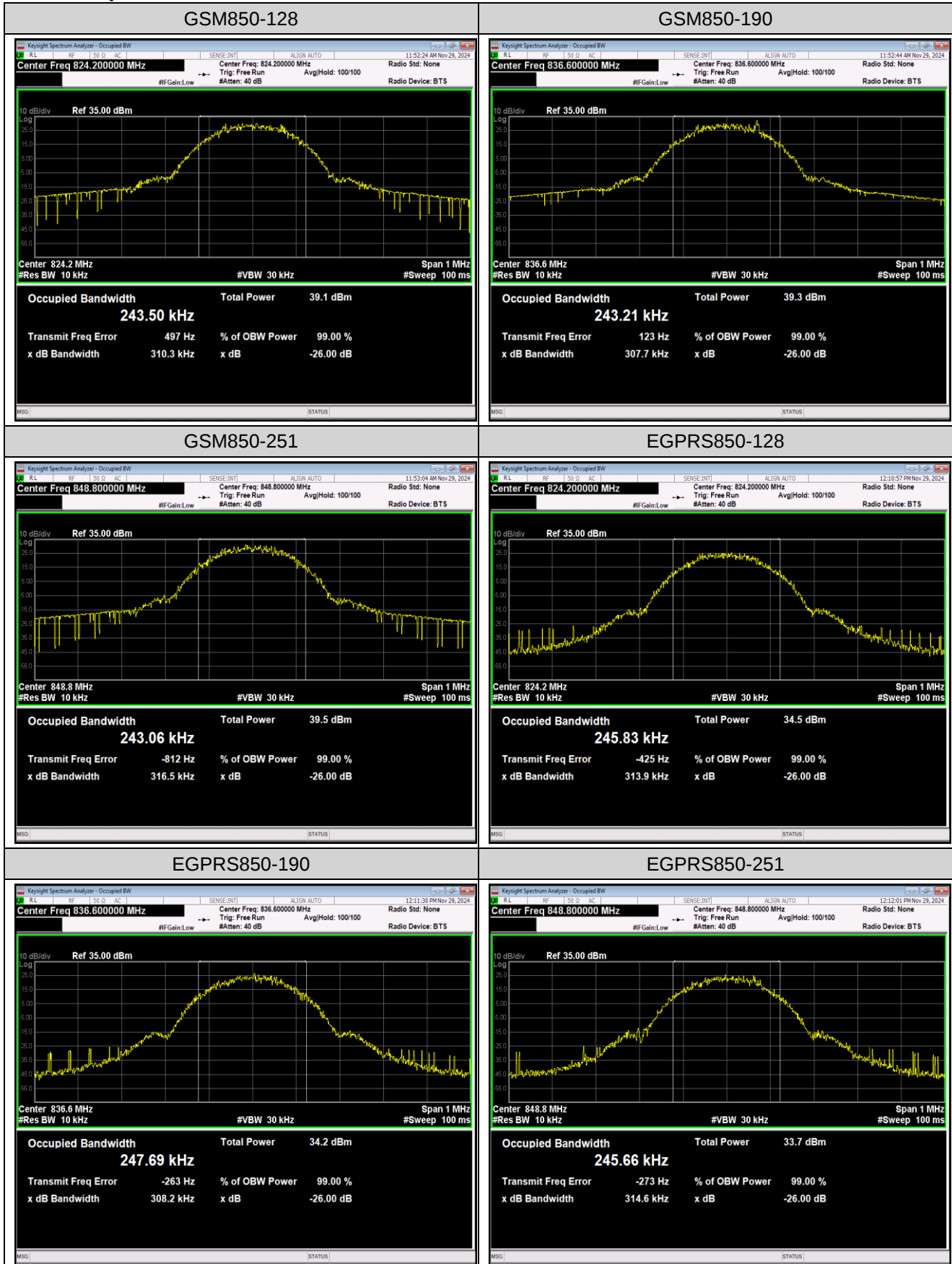


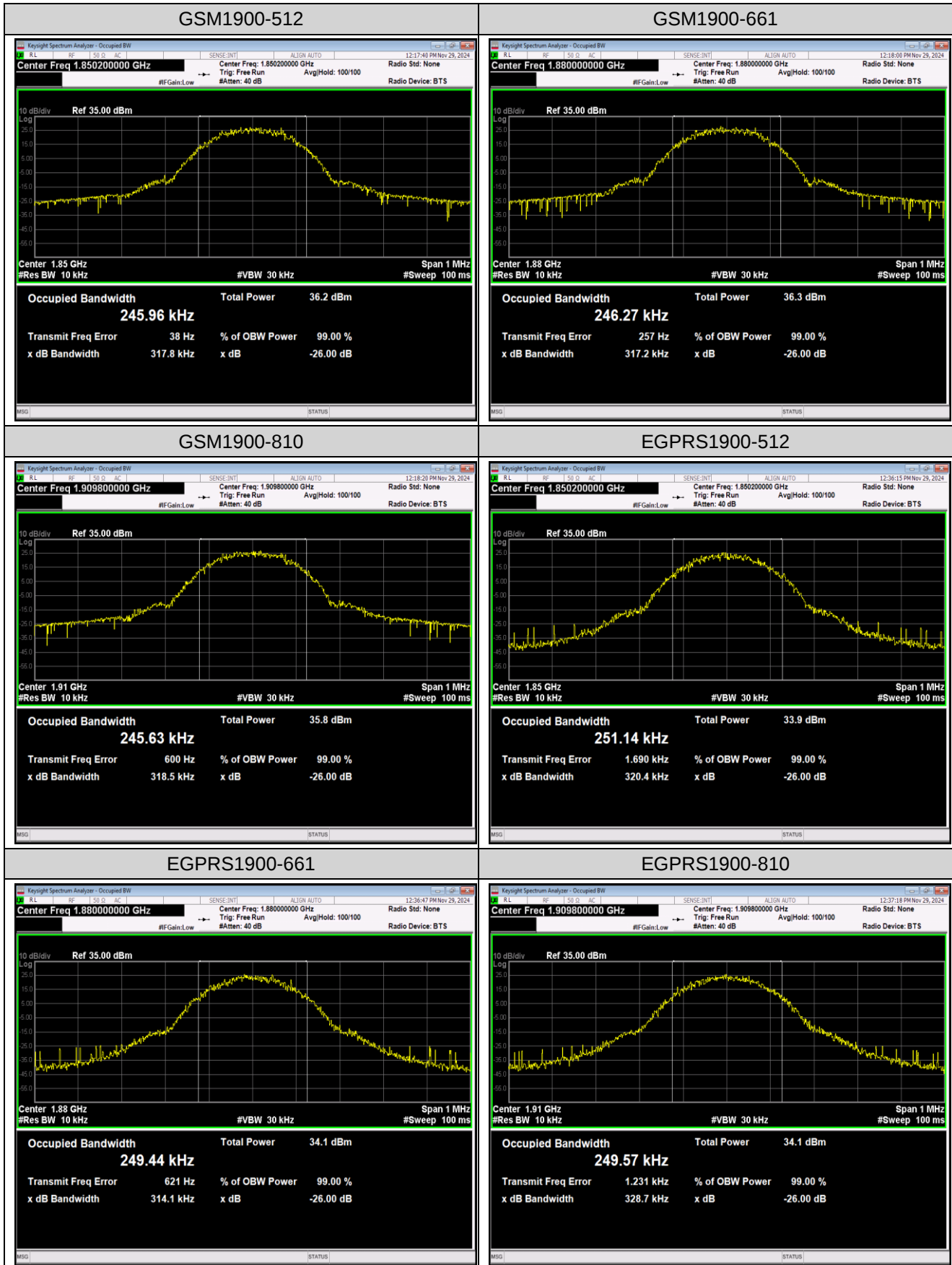
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24350	0.3103	---	PASS
GSM850	190	5	0.24321	0.3077	---	PASS
GSM850	251	5	0.24306	0.3165	---	PASS
EGPRS850	128	8	0.24583	0.3139	---	PASS
EGPRS850	190	8	0.24769	0.3082	---	PASS
EGPRS850	251	8	0.24566	0.3146	---	PASS
GSM1900	512	0	0.24596	0.3178	---	PASS
GSM1900	661	0	0.24627	0.3172	---	PASS
GSM1900	810	0	0.24563	0.3185	---	PASS
EGPRS1900	512	2	0.25114	0.3204	---	PASS
EGPRS1900	661	2	0.24944	0.3141	---	PASS
EGPRS1900	810	2	0.24957	0.3287	---	PASS

Test Graphs



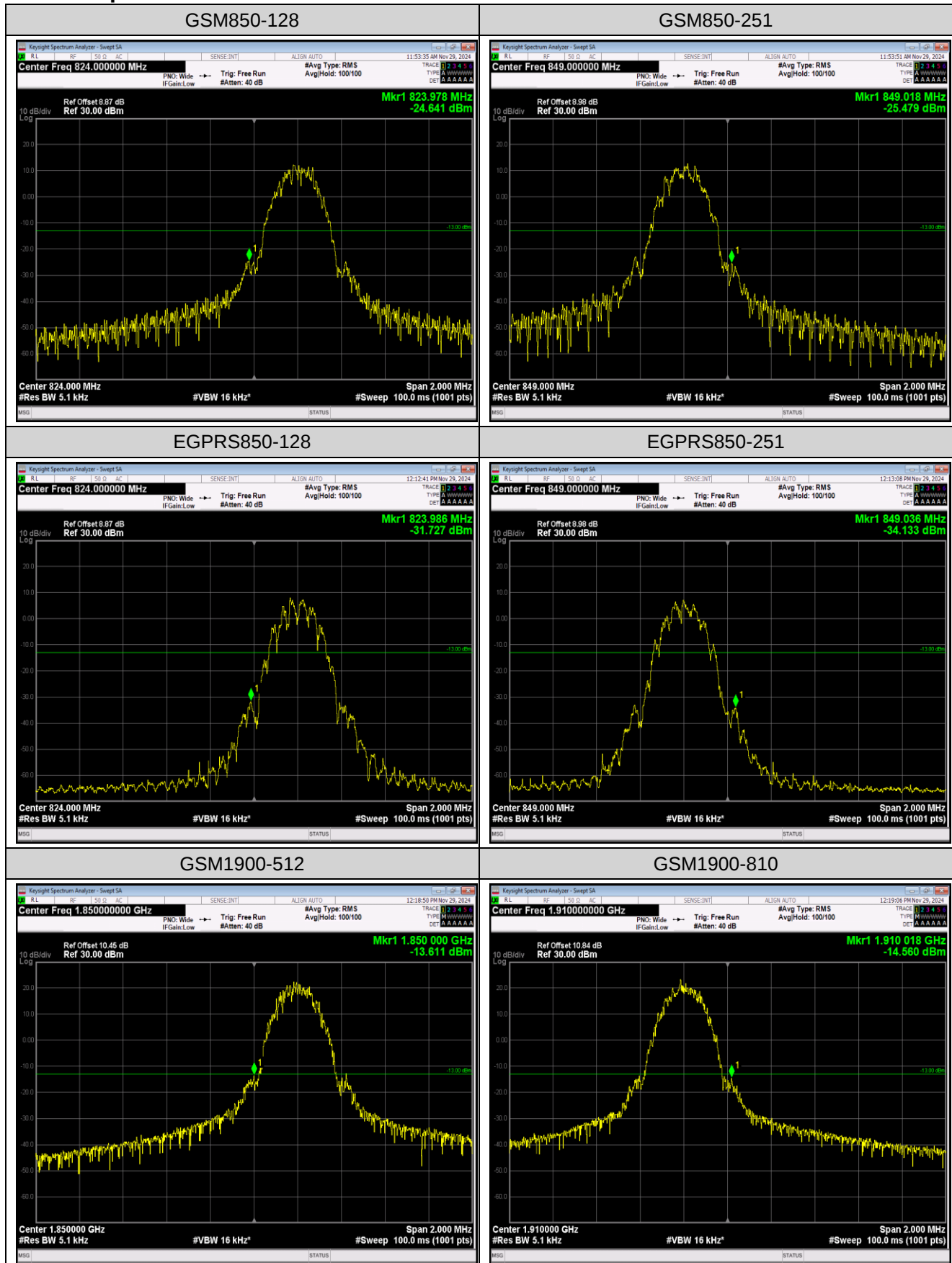


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.64	-13	PASS
GSM850	251	5	849.02	-25.48	-13	PASS
EGPRS850	128	8	823.99	-31.73	-13	PASS
EGPRS850	251	8	849.04	-34.13	-13	PASS
GSM1900	512	0	1850.00	-13.61	-13	PASS
GSM1900	810	0	1910.02	-14.56	-13	PASS
EGPRS1900	512	2	1849.99	-18.09	-13	PASS
EGPRS1900	810	2	1910.01	-16.91	-13	PASS

Test Graphs

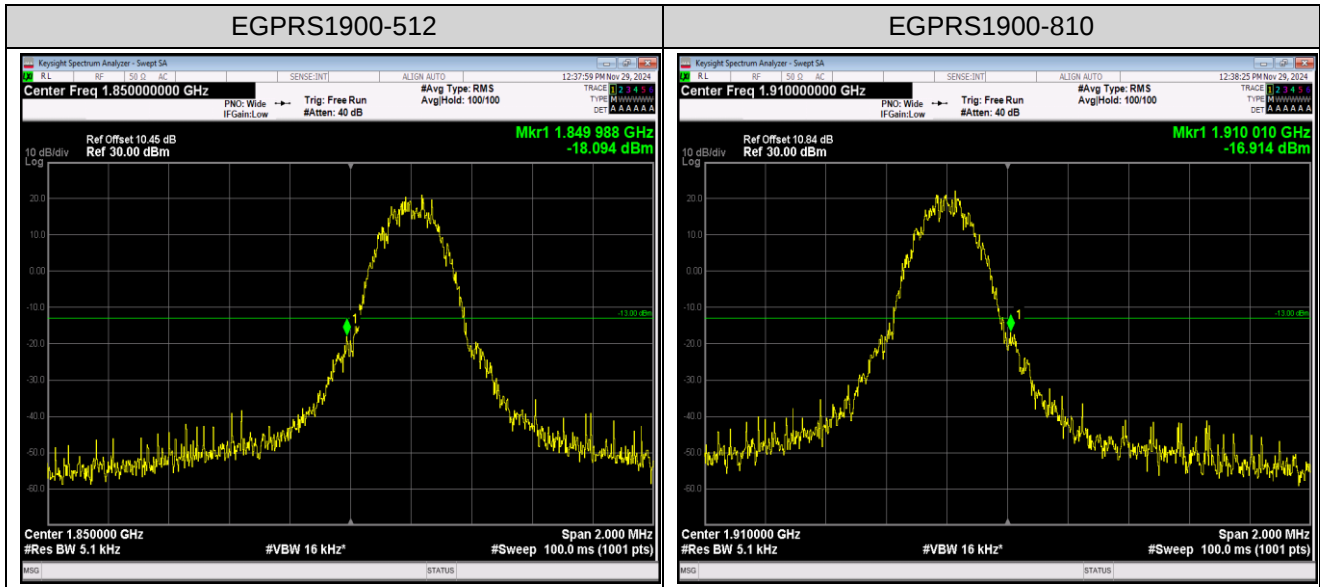


JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Project No.: JYTSZR2411080



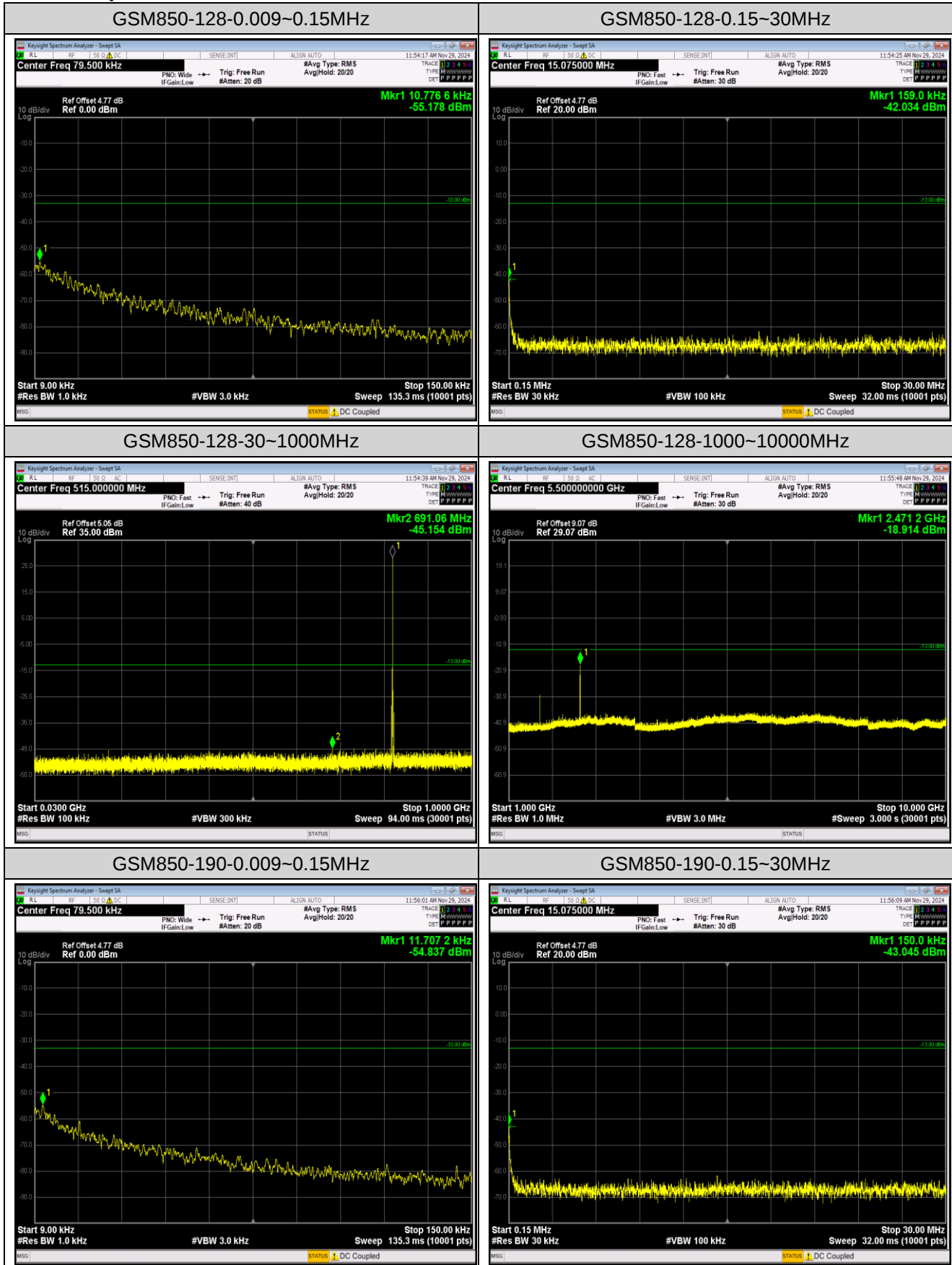
Appendix E: Conducted Spurious Emission

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	-55.18	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-42.03	-13	PASS
GSM850	128	5	30~1000MHz	691.06	-45.15	-13	PASS
GSM850	128	5	1000~10000MHz	2471.2	-18.91	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.84	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-43.05	-13	PASS
GSM850	190	5	30~1000MHz	727.04	-45.57	-13	PASS
GSM850	190	5	1000~10000MHz	2506.9	-19.05	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.62	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.25	-13	PASS
GSM850	251	5	30~1000MHz	994.83	-44.99	-13	PASS
GSM850	251	5	1000~10000MHz	2545.6	-15.66	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.62	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-43.99	-23	PASS
GSM1900	512	0	30~1000MHz	854.31	-44.96	-13	PASS
GSM1900	512	0	1000~18000MHz	17031	-21.91	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-53.97	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-40.78	-23	PASS
GSM1900	661	0	30~1000MHz	981.28	-45.58	-13	PASS
GSM1900	661	0	1000~18000MHz	16846.83	-22.17	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.1	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.47	-23	PASS
GSM1900	810	0	30~1000MHz	434.62	-45.34	-13	PASS
GSM1900	810	0	1000~18000MHz	17005.5	-22.3	-13	PASS

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

Test Graphs

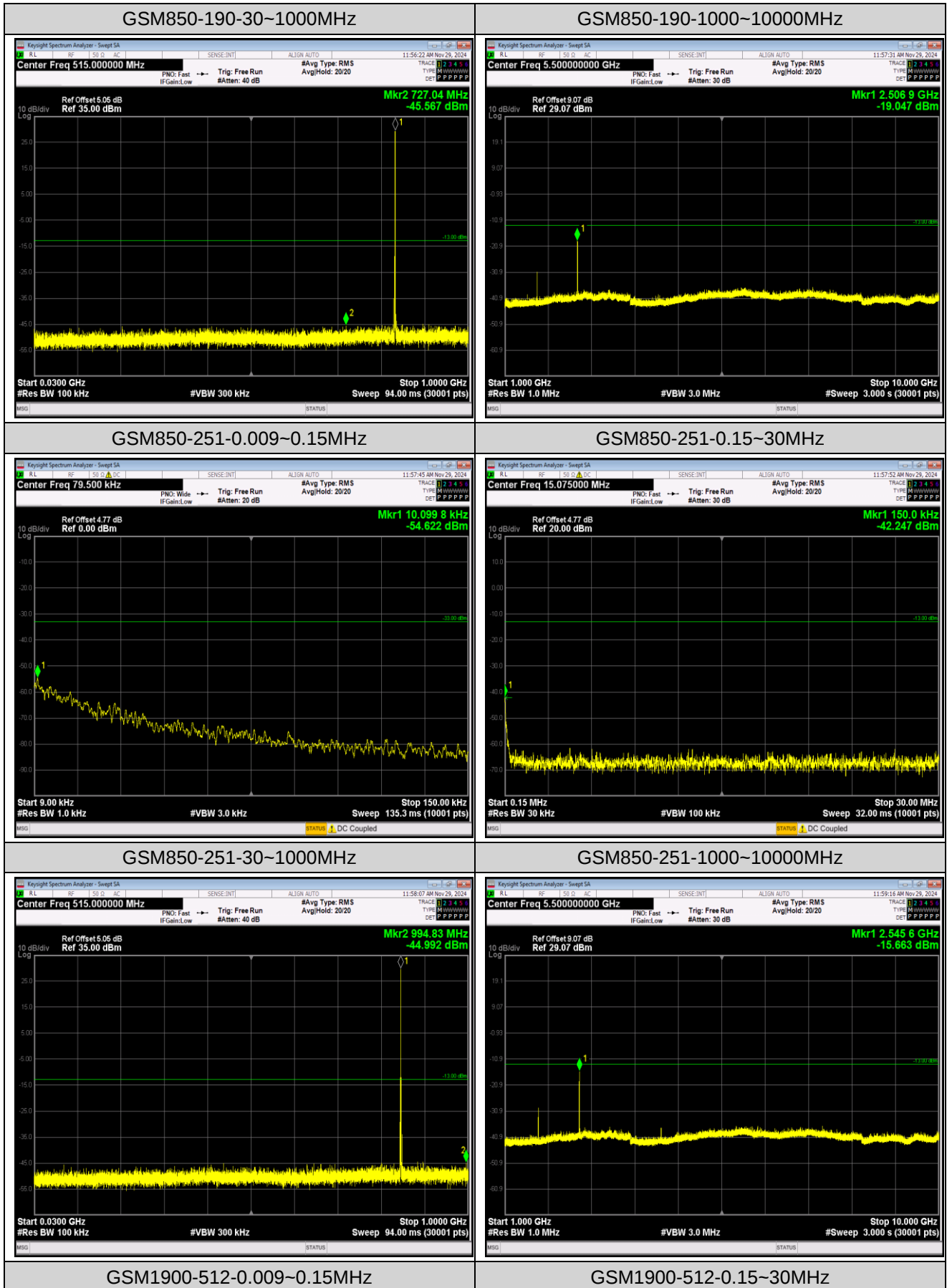


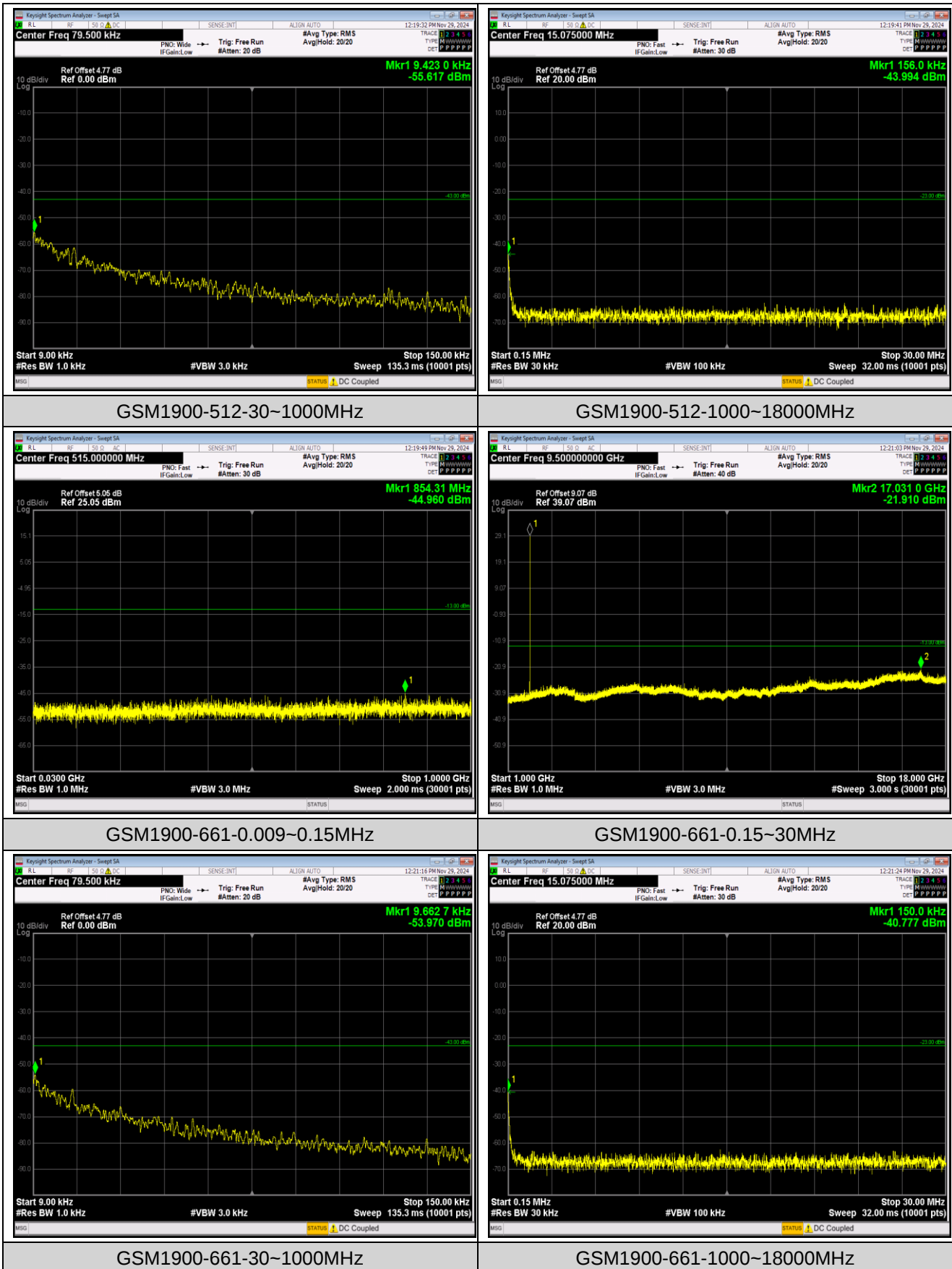
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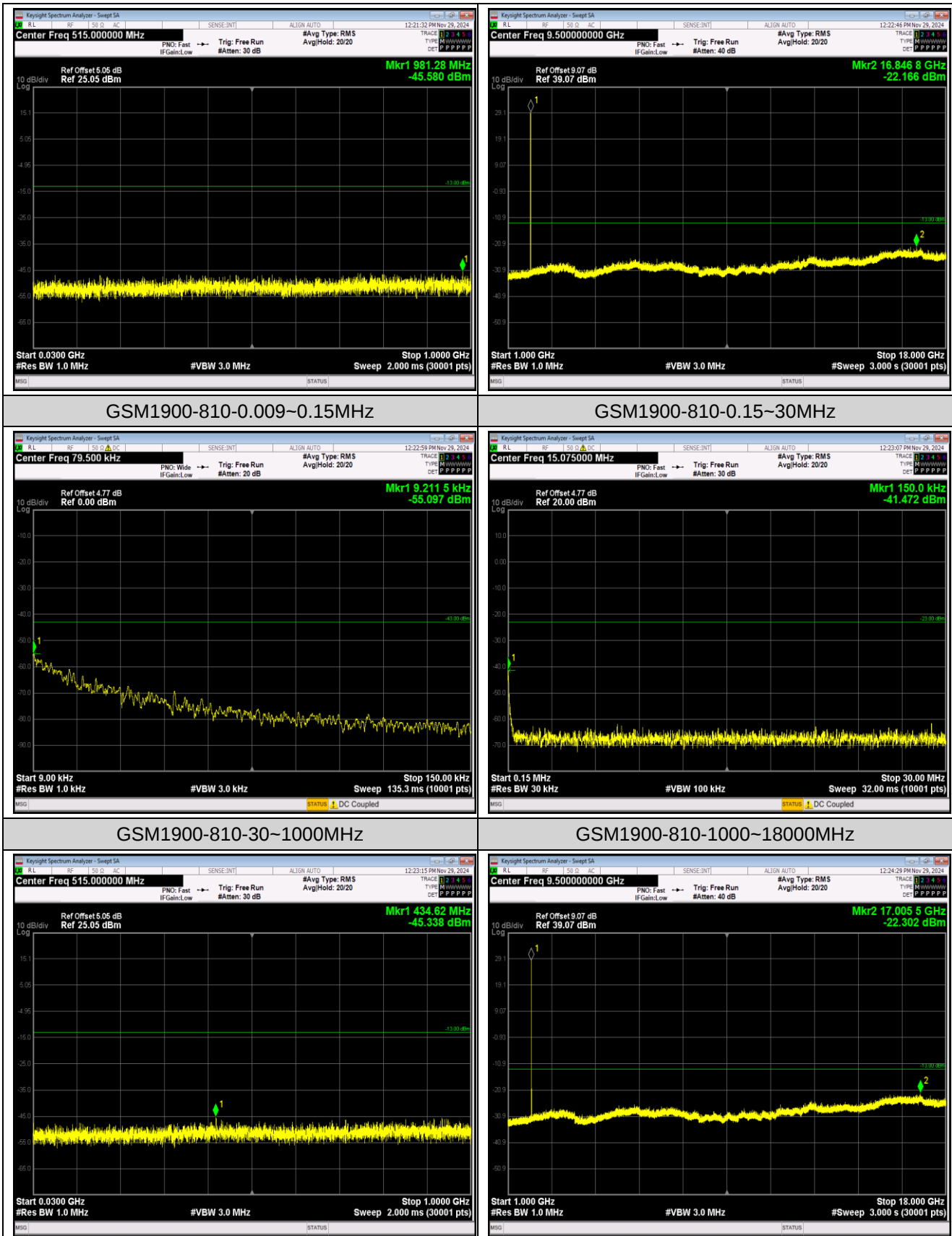
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Project No.: JYTSZR2411080







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		
3.70	-30	-7.39	-0.008833	±2.5	Pass
	-20	-12.40	-0.014822		
	-10	9.20	0.010997		
	0	-2.58	-0.003084		
	10	-5.36	-0.006407		
	20	-0.58	-0.000693		
	30	0.42	0.000502		
	40	-11.49	-0.013734		
	50	2.39	0.002857		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	1.97	0.002355	±2.5	Pass
	3.70	8.01	0.009574		
	4.20	2.58	0.003084		
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		
3.70	-30	3.87	0.004626	±2.5	Pass
	-20	3.75	0.004482		
	-10	2.97	0.003550		
	0	-6.52	-0.007793		
	10	-3.65	-0.004363		
	20	4.10	0.004901		
	30	-0.42	-0.000502		
	40	0.39	0.000466		
	50	3.42	0.004088		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-0.61	-0.000729	±2.5	Pass
	3.70	3.75	0.004482		
	4.20	-2.97	-0.003550		
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		
3.70	-30	-37.87	-0.020144	Within authorized band for PCS 1900	Pass
	-20	15.08	0.008021		
	-10	6.72	0.003574		
	0	2.00	0.001064		
	10	-14.37	-0.007644		
	20	0.45	0.000239		
	30	-4.91	-0.002612		
	40	7.20	0.003830		
	50	-11.43	-0.006080		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	5.00	0.002660	Within authorized band for PCS 1900	Pass
	3.70	5.75	0.003059		
	4.20	6.39	0.003399		
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		
3.70	-30	-1.58	-0.000840	Within authorized band for PCS 1900	Pass
	-20	2.97	0.001580		
	-10	3.97	0.002112		
	0	7.26	0.003862		
	10	-20.82	-0.011074		
	20	-10.82	-0.005755		
	30	-2.45	-0.001303		
	40	-11.53	-0.006133		
	50	7.49	0.003984		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-16.50	-0.008777	Within authorized band for PCS 1900	Pass
	3.70	-7.30	-0.003883		
	4.20	-27.48	-0.014617		
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

