

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	33.65	28.5	38.45	PASS
GSM850	190	5	33.83	28.68	38.45	PASS
GSM850	251	5	33.67	28.52	38.45	PASS
GSM1900	512	0	30.71	29.01	33.00	PASS
GSM1900	661	0	30.82	29.12	33.00	PASS
GSM1900	810	0	30.73	29.03	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.68	28.53	38.45	PASS
GPRS850	128	5	2	32.47	27.32	38.45	PASS
GPRS850	128	5	3	30.13	24.98	38.45	PASS
GPRS850	128	5	4	28.82	23.67	38.45	PASS
GPRS850	190	5	1	33.81	28.66	38.45	PASS
GPRS850	190	5	2	32.59	27.44	38.45	PASS
GPRS850	190	5	3	30.23	25.08	38.45	PASS
GPRS850	190	5	4	28.96	23.81	38.45	PASS
GPRS850	251	5	1	33.66	28.51	38.45	PASS
GPRS850	251	5	2	32.46	27.31	38.45	PASS
GPRS850	251	5	3	30.08	24.93	38.45	PASS
GPRS850	251	5	4	28.79	23.64	38.45	PASS
GPRS1900	512	0	1	30.69	28.99	33.00	PASS
GPRS1900	512	0	2	29.43	27.73	33.00	PASS
GPRS1900	512	0	3	27.13	25.43	33.00	PASS
GPRS1900	512	0	4	25.84	24.14	33.00	PASS
GPRS1900	661	0	1	30.77	29.07	33.00	PASS
GPRS1900	661	0	2	29.52	27.82	33.00	PASS
GPRS1900	661	0	3	27.21	25.51	33.00	PASS
GPRS1900	661	0	4	25.92	24.22	33.00	PASS
GPRS1900	810	0	1	30.68	28.98	33.00	PASS
GPRS1900	810	0	2	29.40	27.7	33.00	PASS
GPRS1900	810	0	3	27.11	25.41	33.00	PASS
GPRS1900	810	0	4	25.85	24.15	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.90	22.75	38.45	PASS
EGPRS850	128	8	2	26.82	21.67	38.45	PASS
EGPRS850	128	8	3	24.71	19.56	38.45	PASS
EGPRS850	128	8	4	23.66	18.51	38.45	PASS
EGPRS850	190	8	1	27.86	22.71	38.45	PASS
EGPRS850	190	8	2	26.81	21.66	38.45	PASS
EGPRS850	190	8	3	24.62	19.47	38.45	PASS
EGPRS850	190	8	4	23.53	18.38	38.45	PASS
EGPRS850	251	8	1	27.92	22.77	38.45	PASS
EGPRS850	251	8	2	26.82	21.67	38.45	PASS
EGPRS850	251	8	3	24.71	19.56	38.45	PASS
EGPRS850	251	8	4	23.60	18.45	38.45	PASS
EGPRS1900	512	2	1	27.04	25.34	33.00	PASS
EGPRS1900	512	2	2	25.97	24.27	33.00	PASS
EGPRS1900	512	2	3	23.77	22.07	33.00	PASS
EGPRS1900	512	2	4	22.58	20.88	33.00	PASS
EGPRS1900	661	2	1	27.16	25.46	33.00	PASS
EGPRS1900	661	2	2	26.02	24.32	33.00	PASS
EGPRS1900	661	2	3	23.85	22.15	33.00	PASS
EGPRS1900	661	2	4	22.70	21	33.00	PASS
EGPRS1900	810	2	1	27.19	25.49	33.00	PASS
EGPRS1900	810	2	2	26.08	24.38	33.00	PASS
EGPRS1900	810	2	3	23.89	22.19	33.00	PASS
EGPRS1900	810	2	4	22.67	20.97	33.00	PASS

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

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

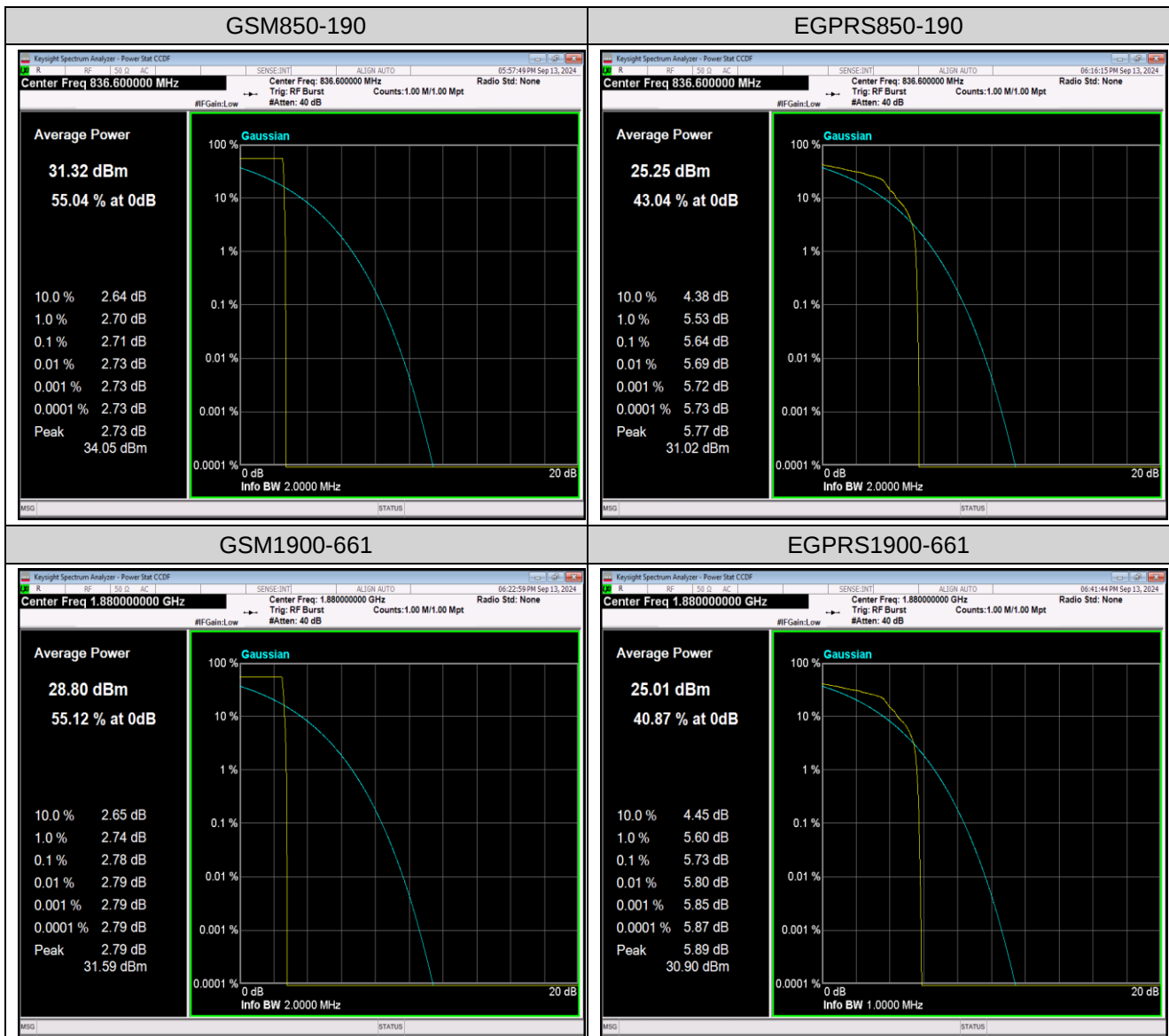
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.71	13	PASS
EGPRS850	190	8	5.64	13	PASS
GSM1900	661	0	2.78	13	PASS
EGPRS1900	661	2	5.73	13	PASS

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

Test Graphs

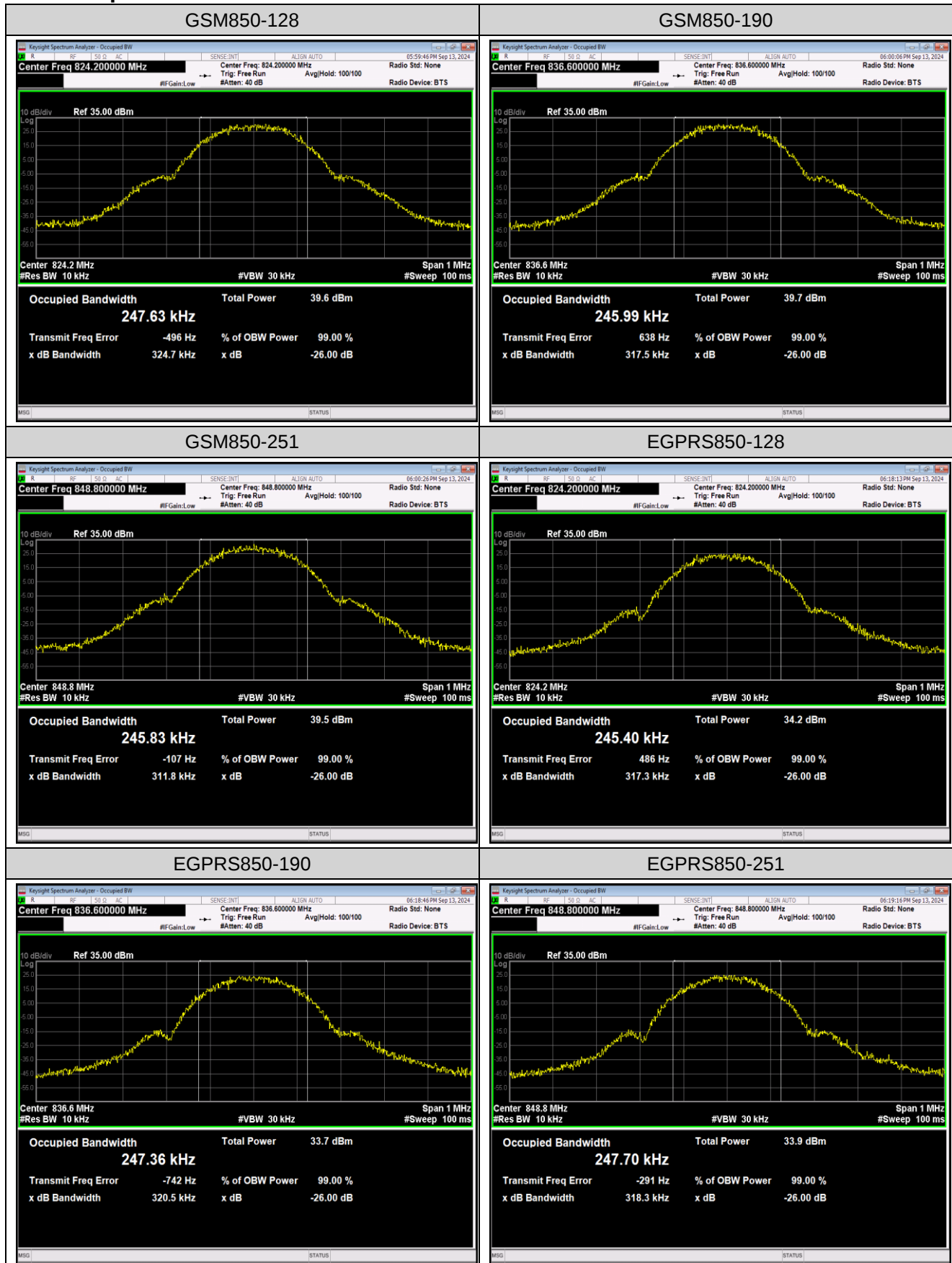


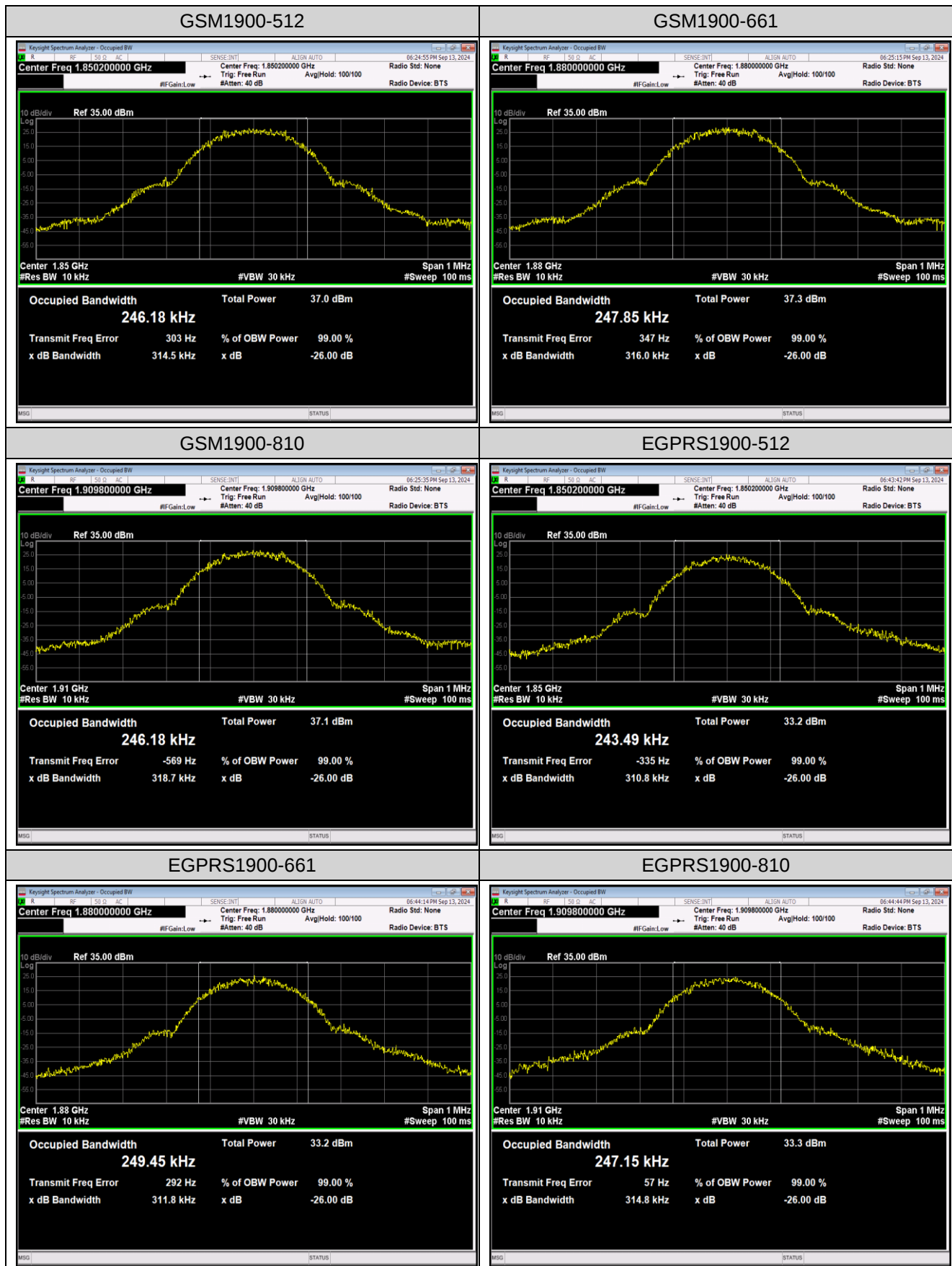
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24763	0.3247	---	PASS
GSM850	190	5	0.24599	0.3175	---	PASS
GSM850	251	5	0.24583	0.3118	---	PASS
EGPRS850	128	8	0.24540	0.3173	---	PASS
EGPRS850	190	8	0.24736	0.3205	---	PASS
EGPRS850	251	8	0.24770	0.3183	---	PASS
GSM1900	512	0	0.24618	0.3145	---	PASS
GSM1900	661	0	0.24785	0.3160	---	PASS
GSM1900	810	0	0.24618	0.3187	---	PASS
EGPRS1900	512	2	0.24349	0.3108	---	PASS
EGPRS1900	661	2	0.24945	0.3118	---	PASS
EGPRS1900	810	2	0.24715	0.3148	---	PASS

Test Graphs



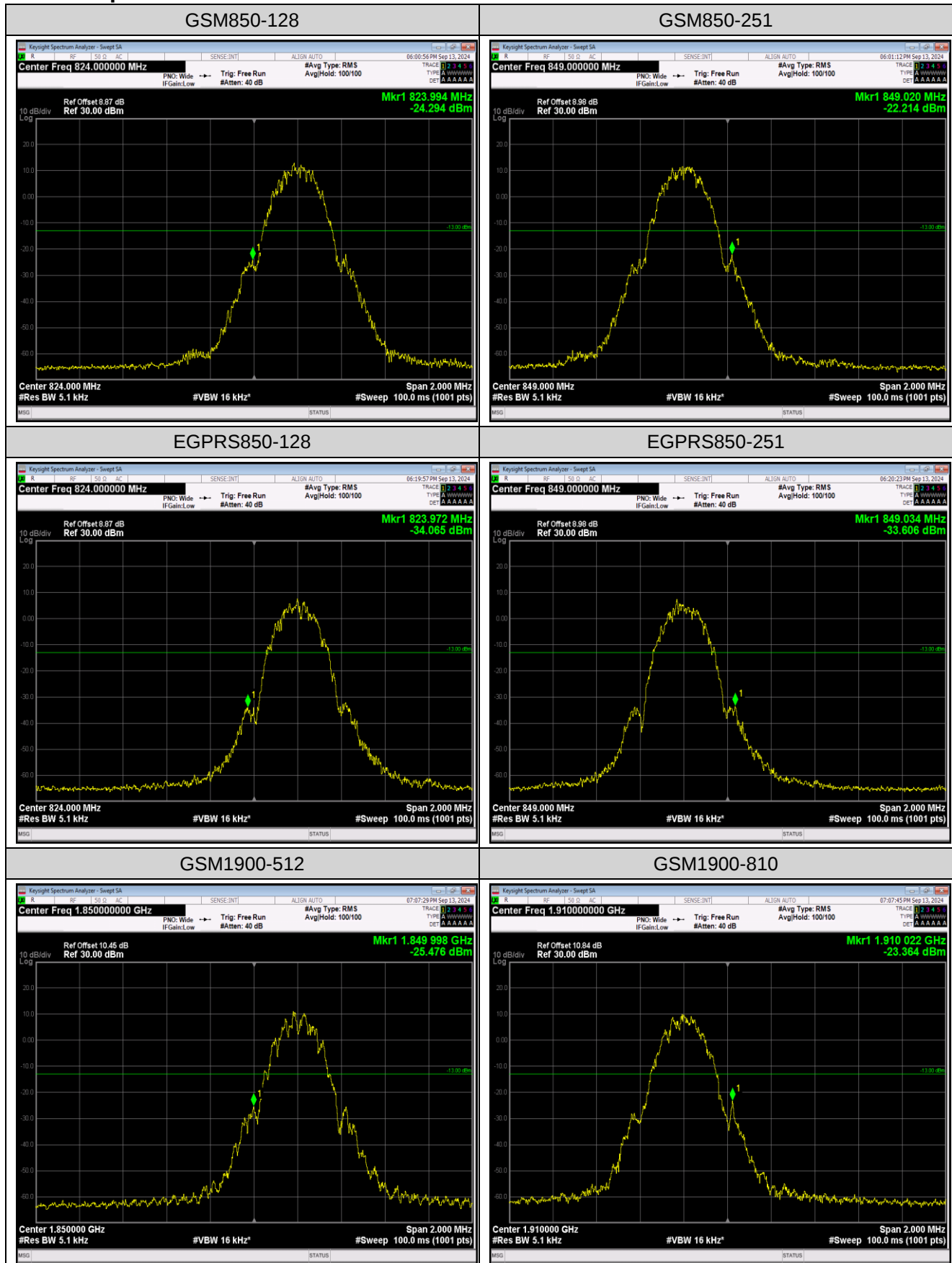


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.99	-24.29	-13	PASS
GSM850	251	5	849.02	-22.21	-13	PASS
EGPRS850	128	8	823.97	-34.06	-13	PASS
EGPRS850	251	8	849.03	-33.61	-13	PASS
GSM1900	512	0	1850.00	-25.48	-13	PASS
GSM1900	810	0	1910.02	-23.36	-13	PASS
EGPRS1900	512	2	1849.97	-16.69	-13	PASS
EGPRS1900	810	2	1910.02	-14.79	-13	PASS

Test Graphs

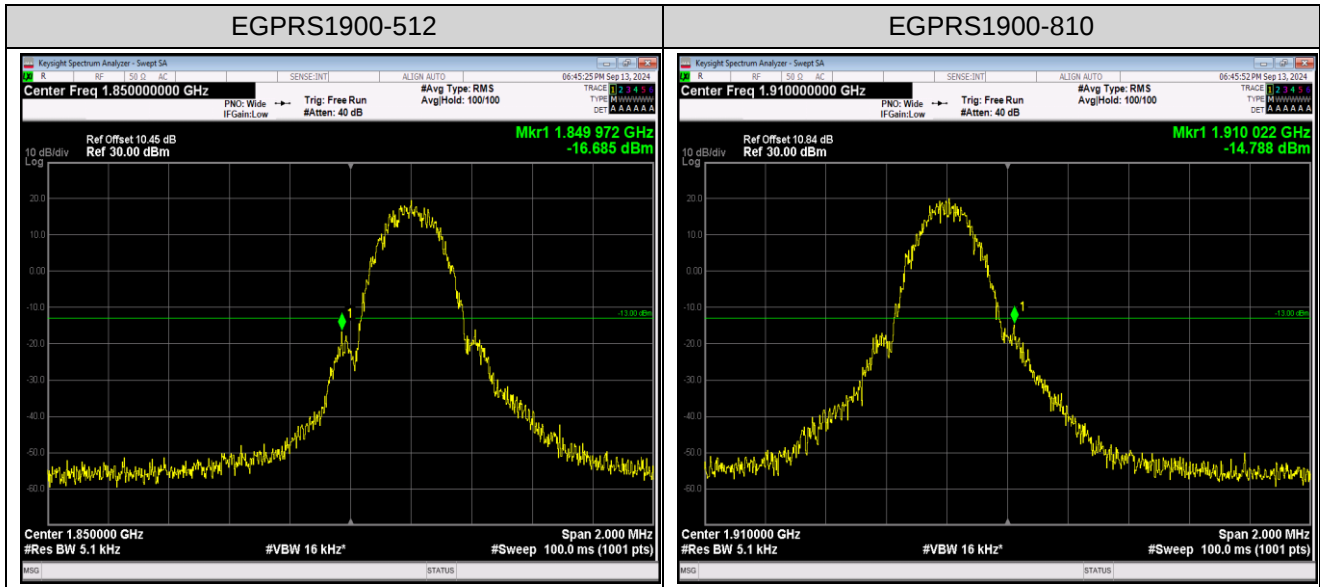


JianYan Testing Group Shenzhen Co., Ltd.

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.: JYTSZR2409027



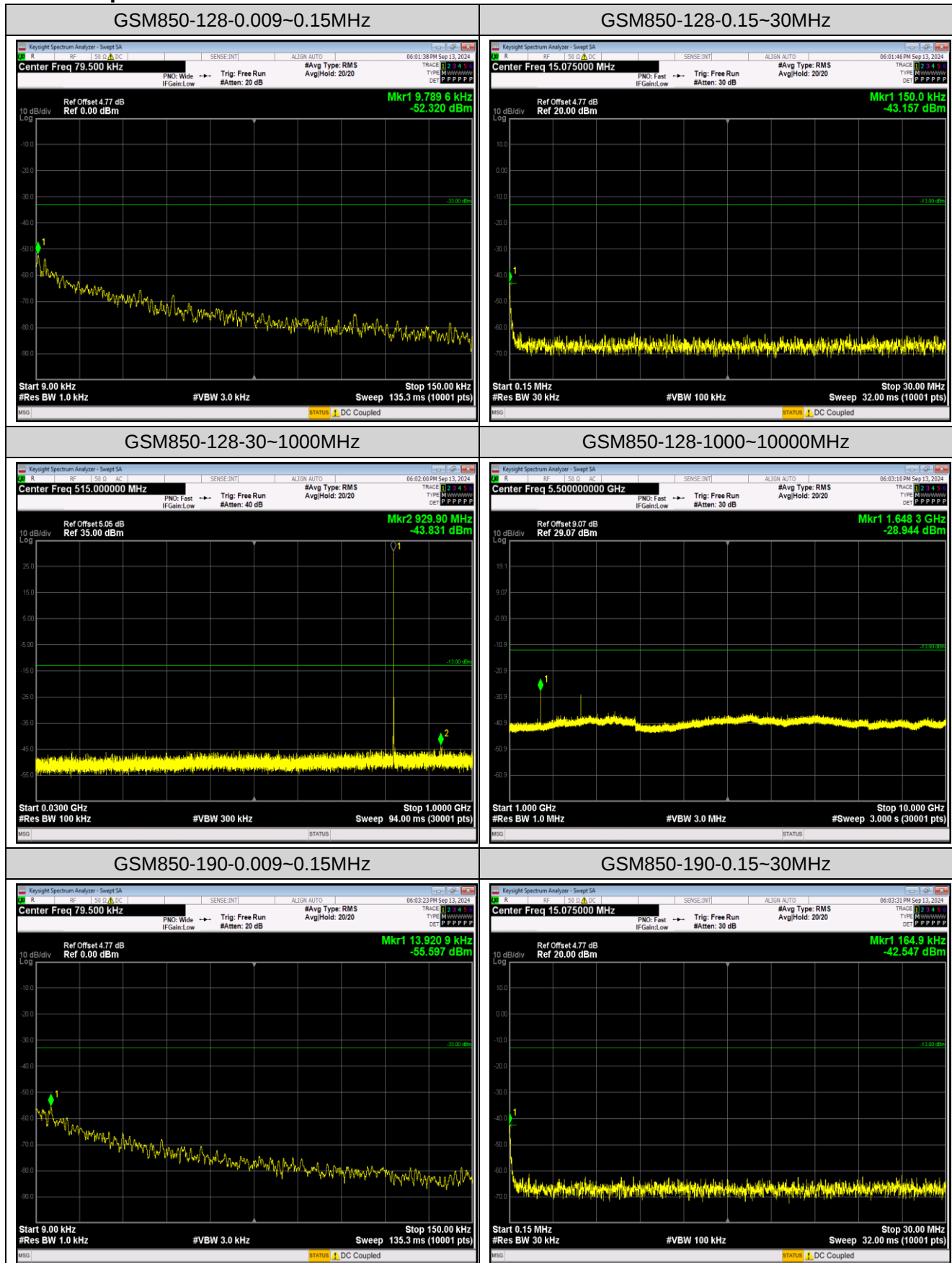
Appendix E: Conducted Spurious Emission

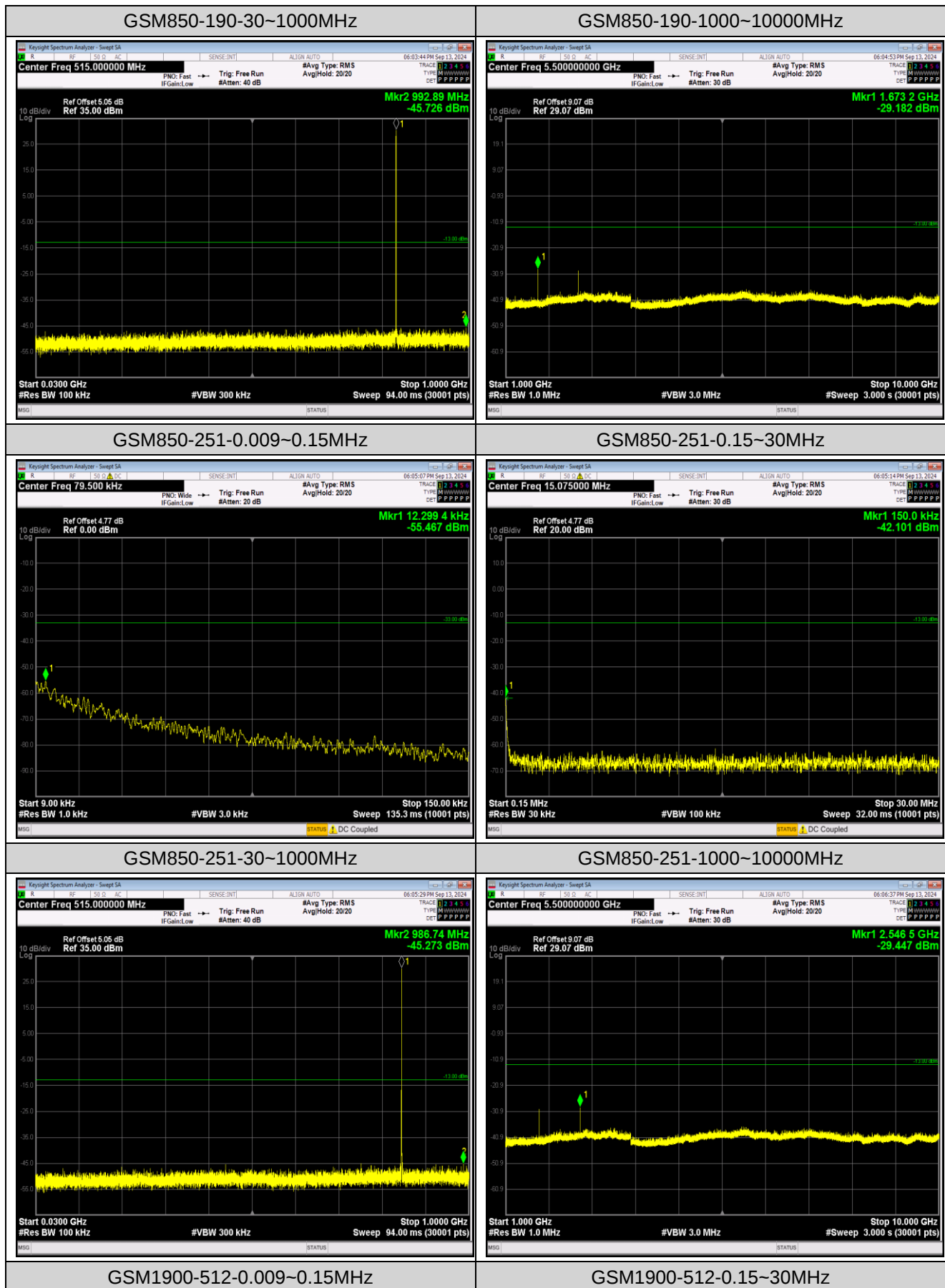
Test Result

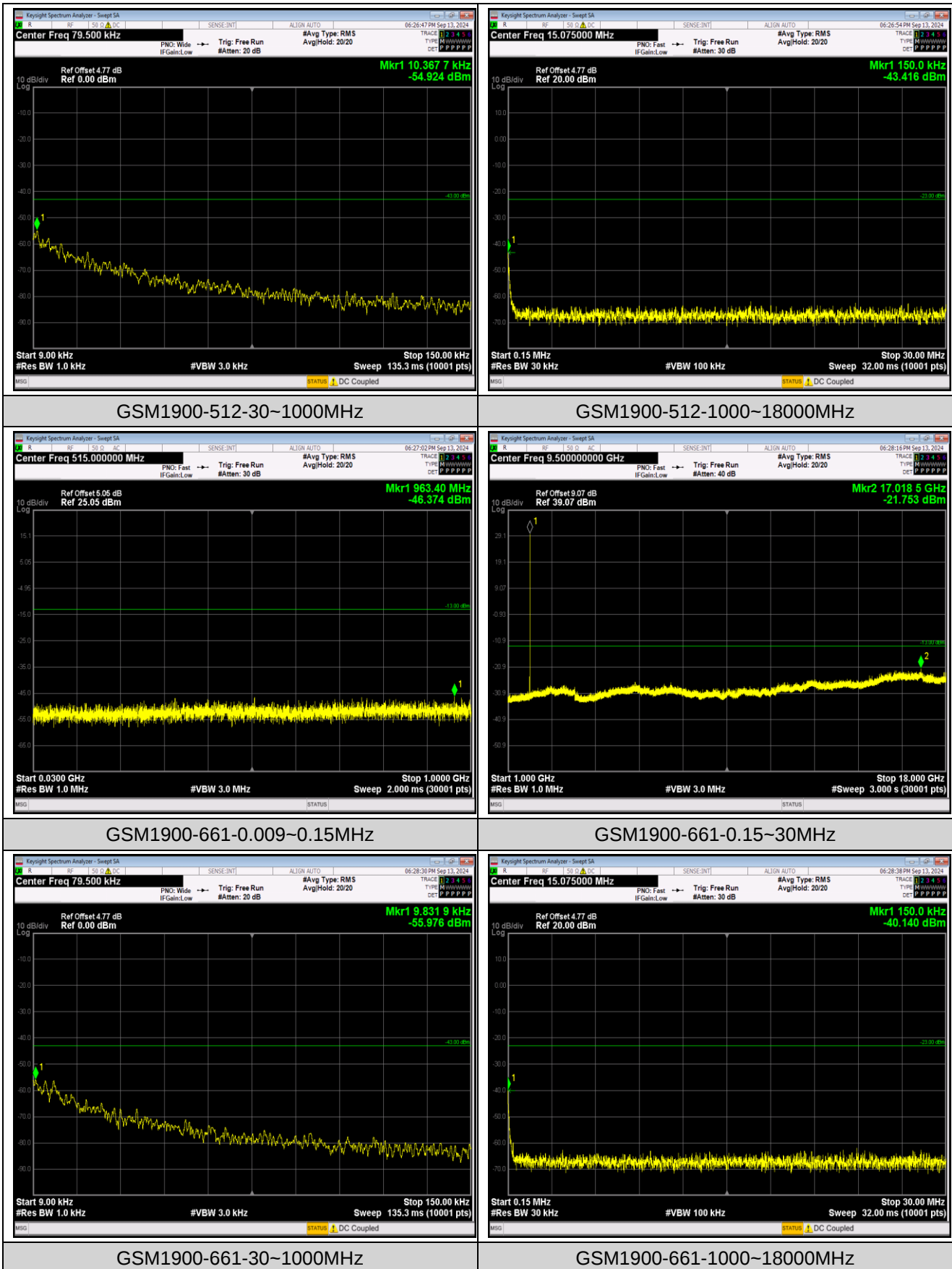
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-52.32	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-43.16	-13	PASS
GSM850	128	5	30~1000MHz	929.9	-43.83	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-28.94	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.6	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-42.55	-13	PASS
GSM850	190	5	30~1000MHz	992.89	-45.73	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-29.18	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.47	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.1	-13	PASS
GSM850	251	5	30~1000MHz	986.74	-45.27	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-29.45	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.92	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-43.42	-23	PASS
GSM1900	512	0	30~1000MHz	963.4	-46.37	-13	PASS
GSM1900	512	0	1000~18000MHz	17018.53	-21.75	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.98	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-40.14	-23	PASS
GSM1900	661	0	30~1000MHz	962.85	-45.76	-13	PASS
GSM1900	661	0	1000~18000MHz	16825.87	-22.18	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.07	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43.64	-23	PASS
GSM1900	810	0	30~1000MHz	895.37	-46.55	-13	PASS
GSM1900	810	0	1000~18000MHz	17001.53	-22.12	-13	PASS

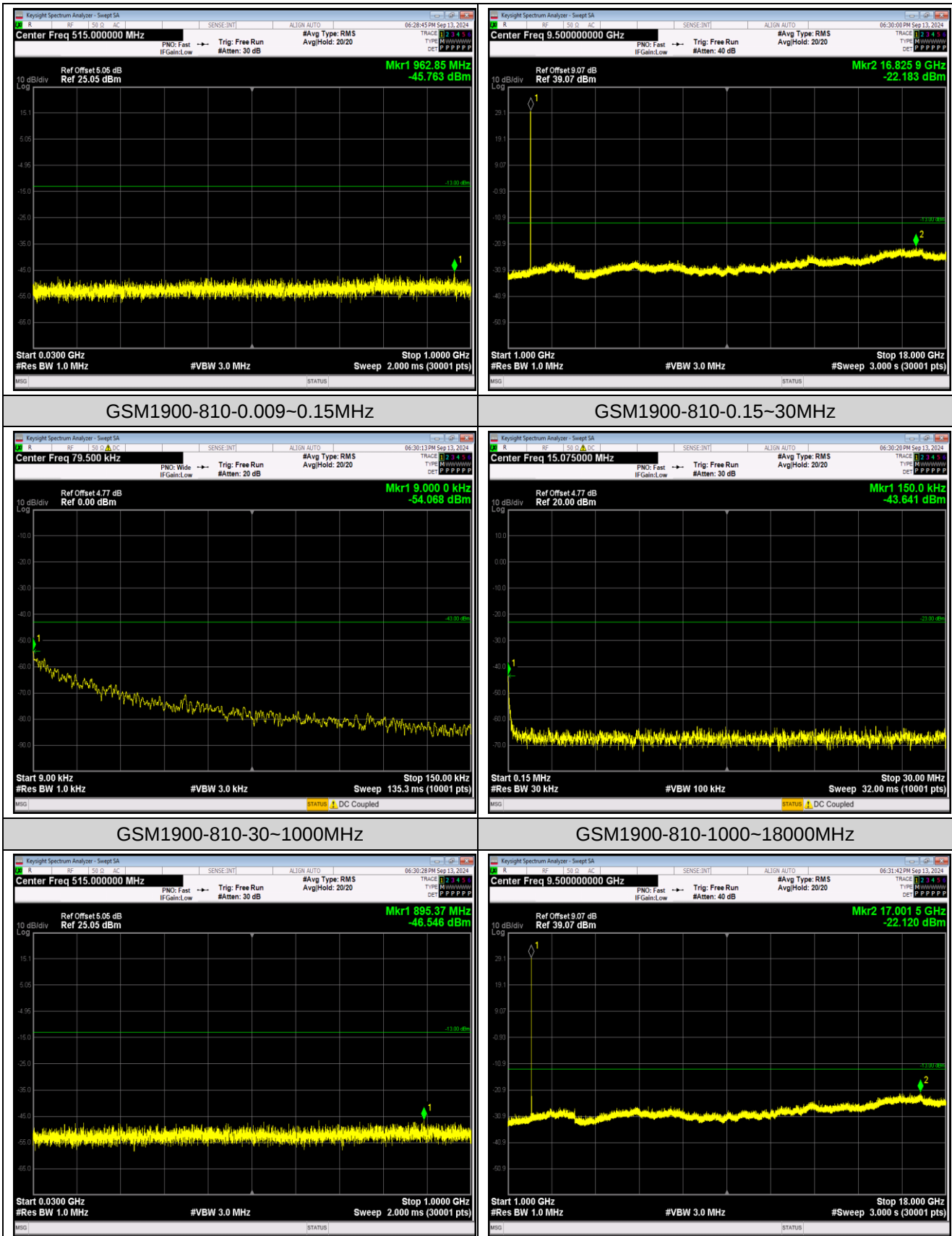
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	9.33	0.011152	±2.5	Pass
	-20	7.94	0.009491		
	-10	8.14	0.009730		
	0	9.59	0.011463		
	10	6.94	0.008295		
	20	9.43	0.011272		
	30	6.81	0.008140		
	40	9.07	0.010842		
	50	6.46	0.007722		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	8.98	0.010734	±2.5	Pass
	3.87	8.43	0.010077		
	4.45	6.91	0.008260		
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	5.20	0.006216	±2.5	Pass
	-20	5.36	0.006407		
	-10	5.71	0.006825		
	0	10.04	0.012001		
	10	8.33	0.009957		
	20	6.65	0.007949		
	30	6.07	0.007256		
	40	7.62	0.009108		
	50	6.17	0.007375		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	3.26	0.003897	±2.5	Pass
	3.87	4.91	0.005869		
	4.45	7.39	0.008833		
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	20.99	0.011165	Within authorized band for PCS 1900	Pass
	-20	18.95	0.010080		
	-10	23.83	0.012676		
	0	21.02	0.011181		
	10	19.50	0.010372		
	20	17.79	0.009463		
	30	13.59	0.007229		
	40	21.11	0.011229		
	50	18.44	0.009809		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	24.02	0.012777	Within authorized band for PCS 1900	Pass
	3.87	27.83	0.014803		
	4.45	22.47	0.011952		
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		
3.87	-30	18.66	0.009926	Within authorized band for PCS 1900	Pass
	-20	18.89	0.010048		
	-10	15.24	0.008106		
	0	17.85	0.009495		
	10	16.47	0.008761		
	20	18.34	0.009755		
	30	17.98	0.009564		
	40	22.08	0.011745		
	50	27.06	0.014394		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	19.24	0.010234	Within authorized band for PCS 1900	Pass
	3.87	14.63	0.007782		
	4.45	19.73	0.010495		
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

