

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	3	32.86	32.70	38.5	PASS
GSM850	190	3	33.00	32.84	38.5	PASS
GSM850	251	3	32.75	32.59	38.5	PASS
GSM1900	512	0	28.06	29.18	33	PASS
GSM1900	661	0	27.51	28.63	33	PASS
GSM1900	810	0	26.39	27.51	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	32.76	32.60	38.5	PASS
GPRS850	128	3	2	32.67	32.51	38.5	PASS
GPRS850	128	3	3	31.18	31.02	38.5	PASS
GPRS850	128	3	4	30.36	30.20	38.5	PASS
GPRS850	190	3	1	33.16	33.00	38.5	PASS
GPRS850	190	3	2	33.13	32.97	38.5	PASS
GPRS850	190	3	3	31.54	31.38	38.5	PASS
GPRS850	190	3	4	30.40	30.24	38.5	PASS
GPRS850	251	3	1	32.63	32.47	38.5	PASS
GPRS850	251	3	2	32.59	32.43	38.5	PASS
GPRS850	251	3	3	31.38	31.22	38.5	PASS
GPRS850	251	3	4	30.26	30.10	38.5	PASS
GPRS1900	512	0	1	27.89	27.51	33	PASS
GPRS1900	512	0	2	27.81	29.01	33	PASS
GPRS1900	512	0	3	27.94	28.93	33	PASS
GPRS1900	512	0	4	27.88	29.06	33	PASS
GPRS1900	661	0	1	27.53	29	33	PASS
GPRS1900	661	0	2	27.51	28.65	33	PASS
GPRS1900	661	0	3	27.44	28.63	33	PASS
GPRS1900	661	0	4	27.36	28.56	33	PASS
GPRS1900	810	0	1	26.51	28.48	33	PASS
GPRS1900	810	0	2	26.34	27.63	33	PASS
GPRS1900	810	0	3	26.26	27.46	33	PASS
GPRS1900	810	0	4	26.34	27.38	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	28.24	28.08	38.5	PASS
EGPRS850	128	8	2	28.09	27.93	38.5	PASS
EGPRS850	128	8	3	26.23	26.07	38.5	PASS
EGPRS850	128	8	4	25.00	24.84	38.5	PASS
EGPRS850	190	8	1	28.38	28.22	38.5	PASS
EGPRS850	190	8	2	28.30	28.14	38.5	PASS
EGPRS850	190	8	3	26.43	26.27	38.5	PASS
EGPRS850	190	8	4	25.33	25.17	38.5	PASS
EGPRS850	251	8	1	28.34	28.18	38.5	PASS
EGPRS850	251	8	2	28.30	28.14	38.5	PASS
EGPRS850	251	8	3	26.47	26.31	38.5	PASS
EGPRS850	251	8	4	25.18	25.02	38.5	PASS
EGPRS1900	512	2	1	25.66	26.78	33	PASS
EGPRS1900	512	2	2	25.56	26.68	33	PASS
EGPRS1900	512	2	3	25.42	26.54	33	PASS
EGPRS1900	512	2	4	25.19	26.31	33	PASS
EGPRS1900	661	2	1	25.66	26.78	33	PASS
EGPRS1900	661	2	2	25.53	26.65	33	PASS
EGPRS1900	661	2	3	25.37	26.49	33	PASS
EGPRS1900	661	2	4	25.22	26.34	33	PASS
EGPRS1900	810	2	1	25.47	26.59	33	PASS
EGPRS1900	810	2	2	25.37	26.49	33	PASS
EGPRS1900	810	2	3	25.24	26.36	33	PASS
EGPRS1900	810	2	4	25.03	26.15	33	PASS

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

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

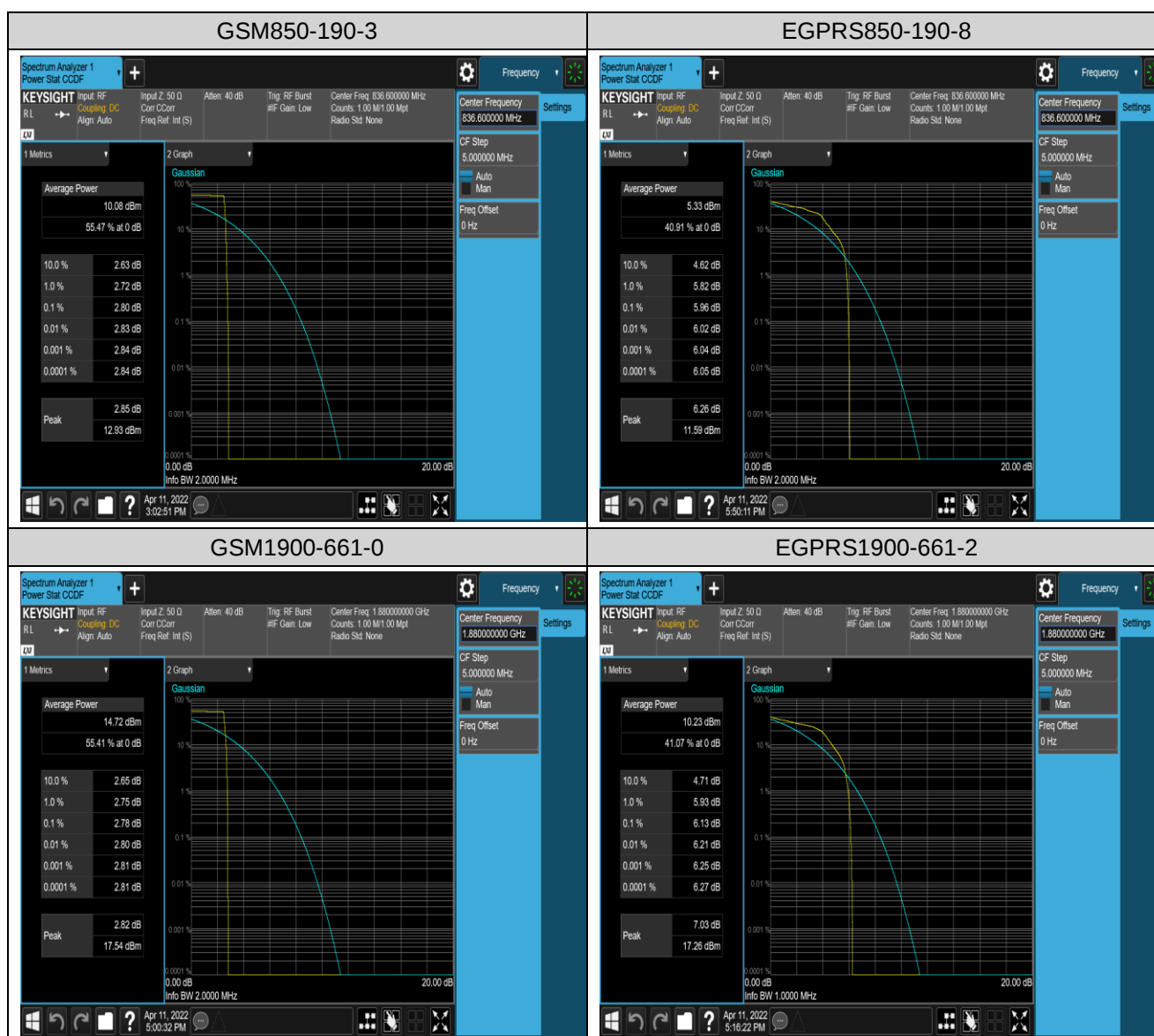
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.8	13	PASS
EGPRS850	190	8	5.96	13	PASS
GSM1900	661	0	2.78	13	PASS
EGPRS1900	661	2	6.13	13	PASS

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

Test Graphs

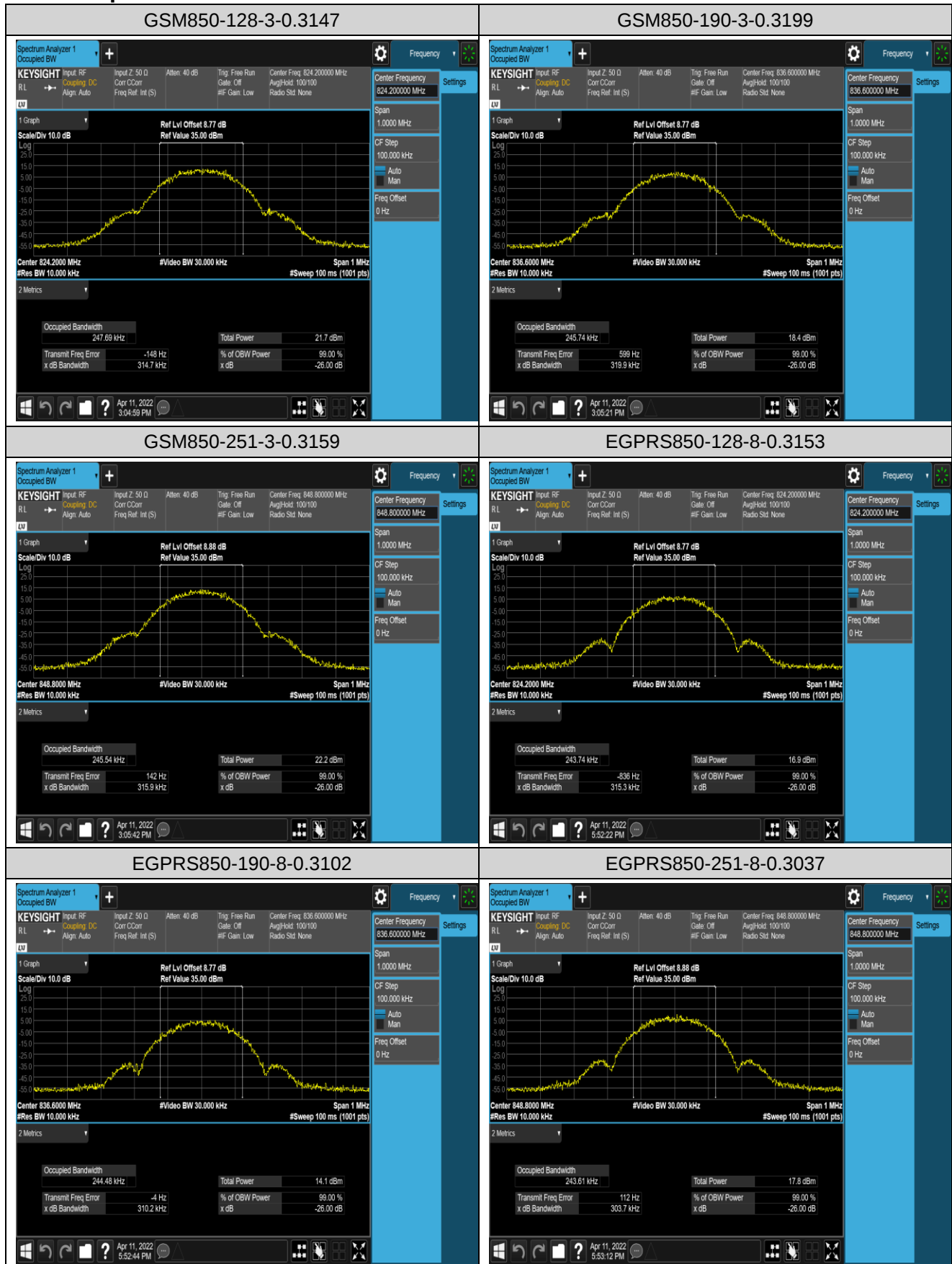


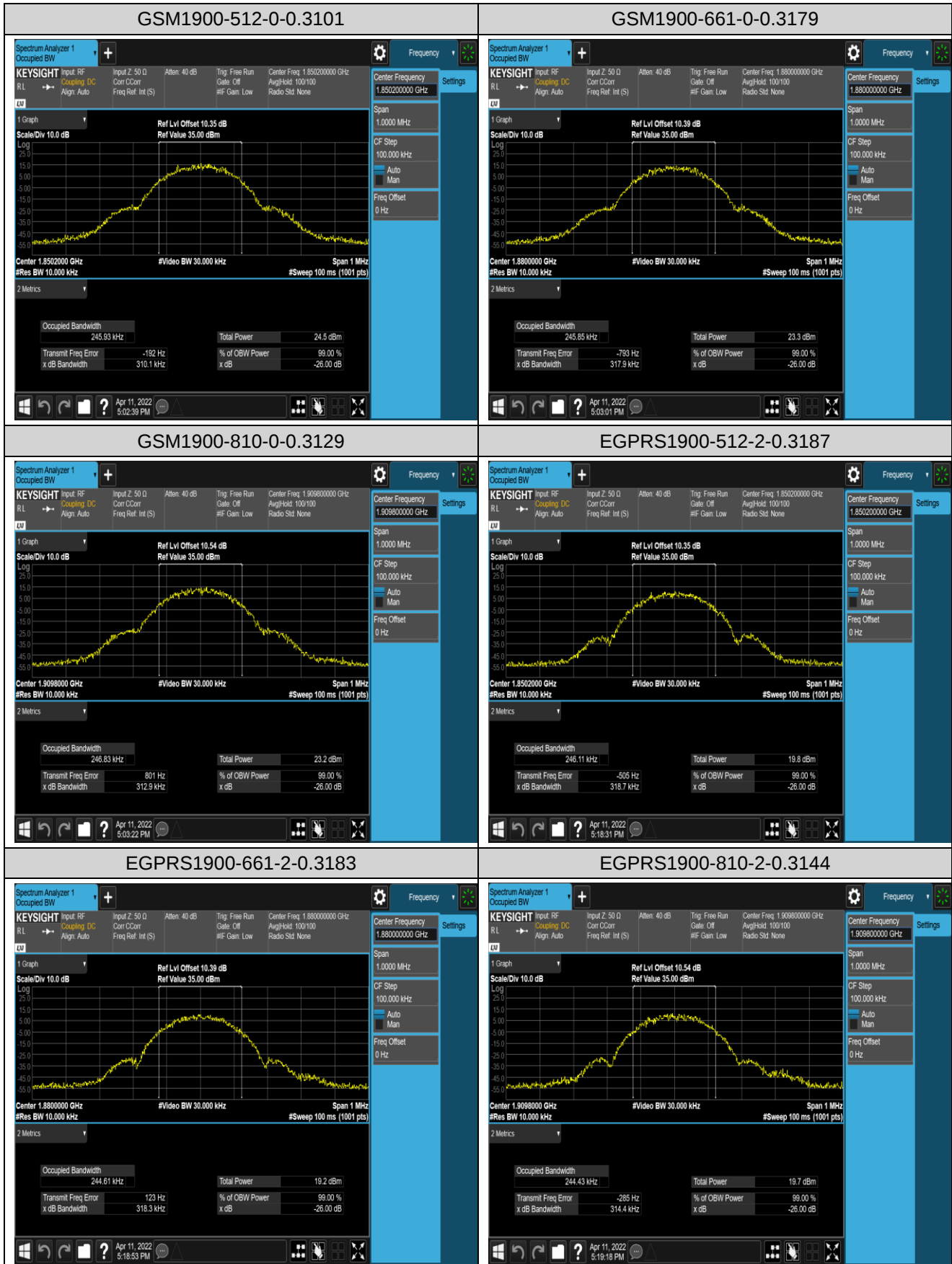
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24769	0.3147	---	PASS
GSM850	190	5	0.24574	0.3199	---	PASS
GSM850	251	5	0.24554	0.3159	---	PASS
EGPRS850	128	8	0.24374	0.3153	---	PASS
EGPRS850	190	8	0.24448	0.3102	---	PASS
EGPRS850	251	8	0.24361	0.3037	---	PASS
GSM1900	512	0	0.24593	0.3101	---	PASS
GSM1900	661	0	0.24585	0.3179	---	PASS
GSM1900	810	0	0.24683	0.3129	---	PASS
EGPRS1900	512	2	0.24611	0.3187	---	PASS
EGPRS1900	661	2	0.24461	0.3183	---	PASS
EGPRS1900	810	2	0.24443	0.3144	---	PASS

Test Graphs



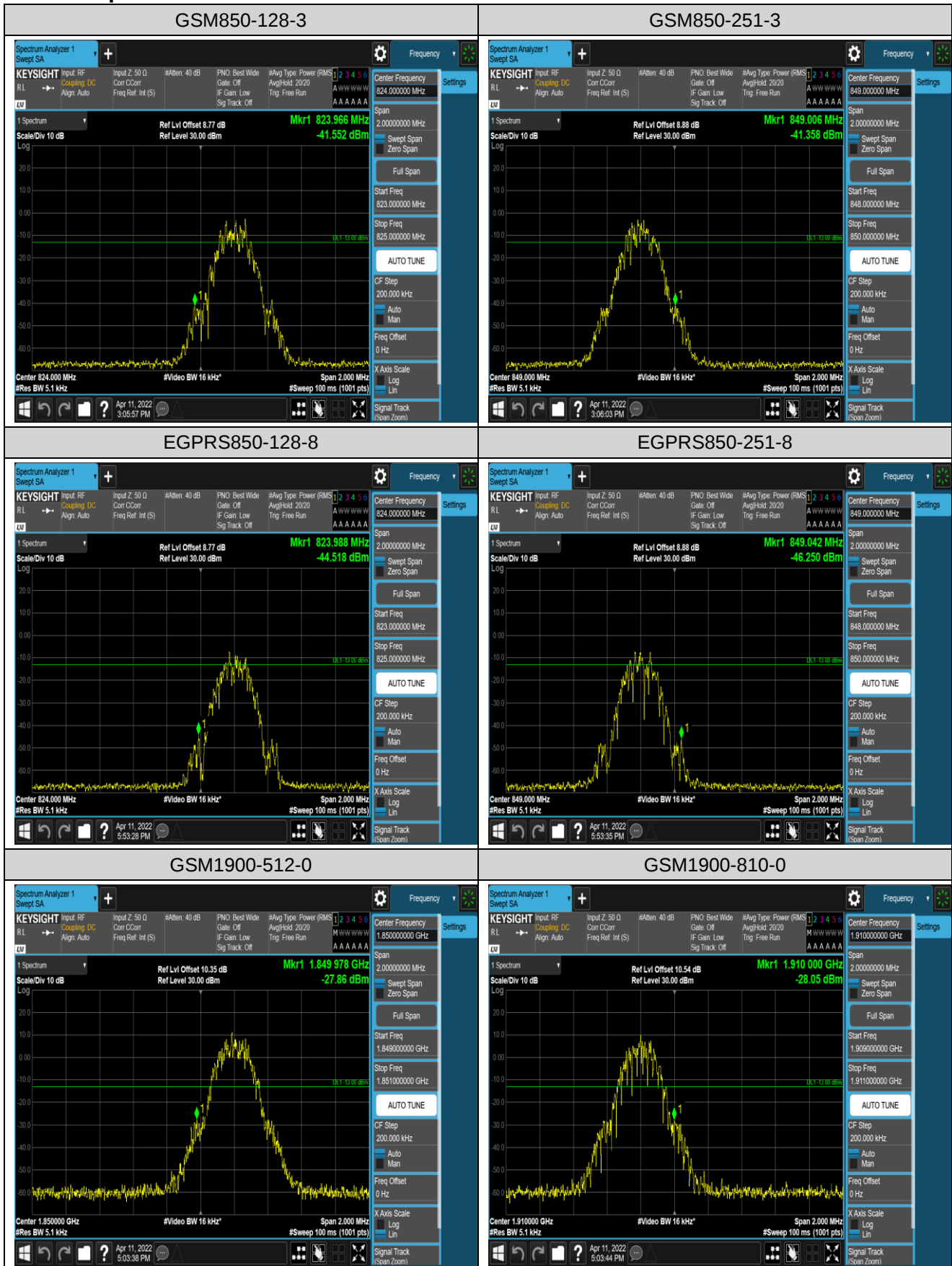


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.97	-41.55	-13	PASS
GSM850	251	5	849.01	-41.36	-13	PASS
EGPRS850	128	8	823.99	-44.52	-13	PASS
EGPRS850	251	8	849.04	-46.25	-13	PASS
GSM1900	512	0	1849.98	-27.86	-13	PASS
GSM1900	810	0	1910.00	-28.05	-13	PASS
EGPRS1900	512	2	1849.98	-33.68	-13	PASS
EGPRS1900	810	2	1910.02	-33.91	-13	PASS

Test Graphs

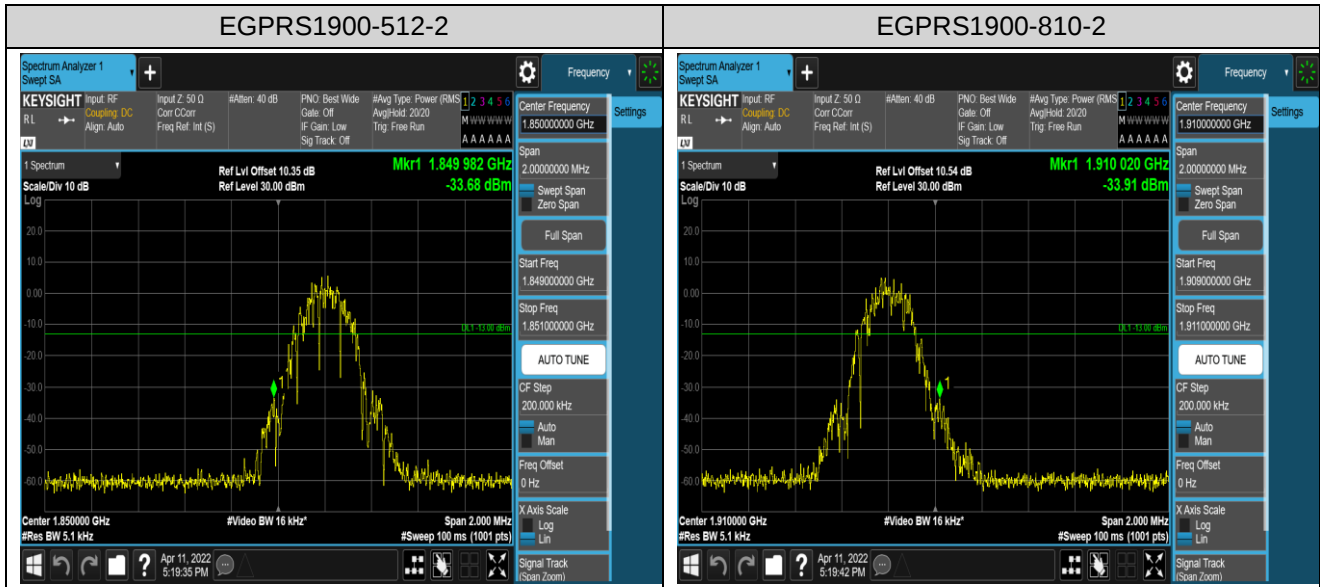


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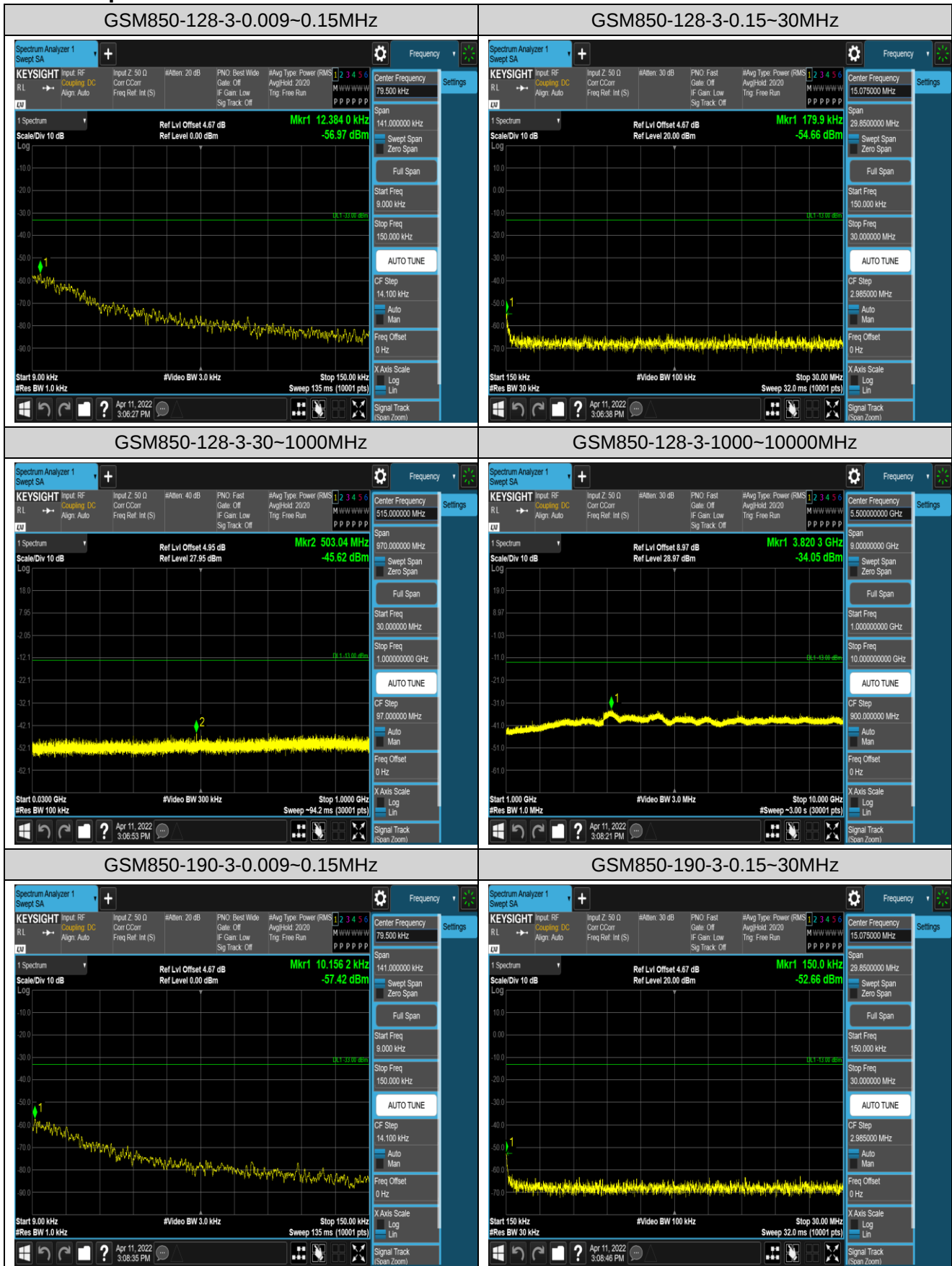
Appendix E: Conducted Spurious Emission

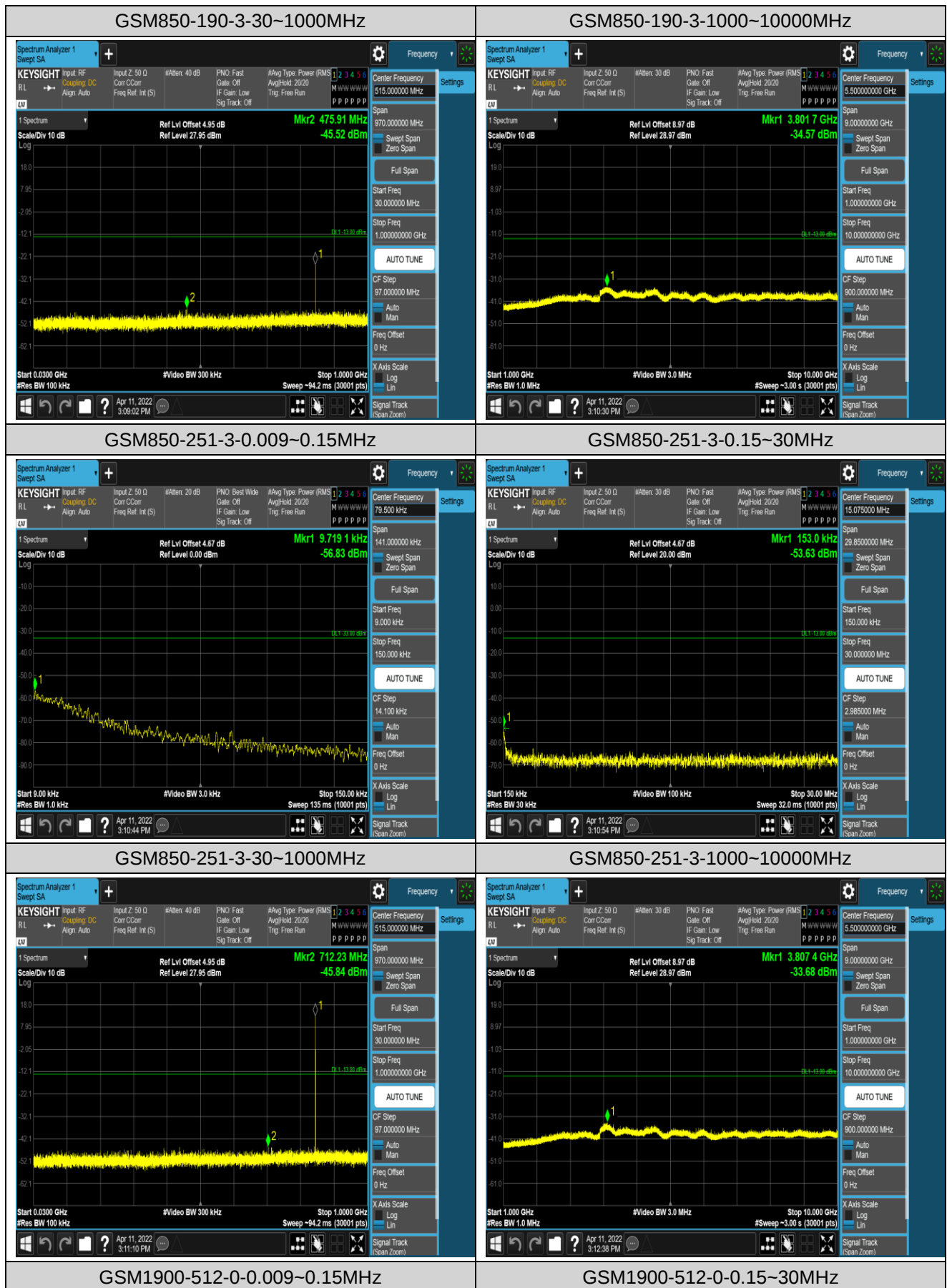
Test Result

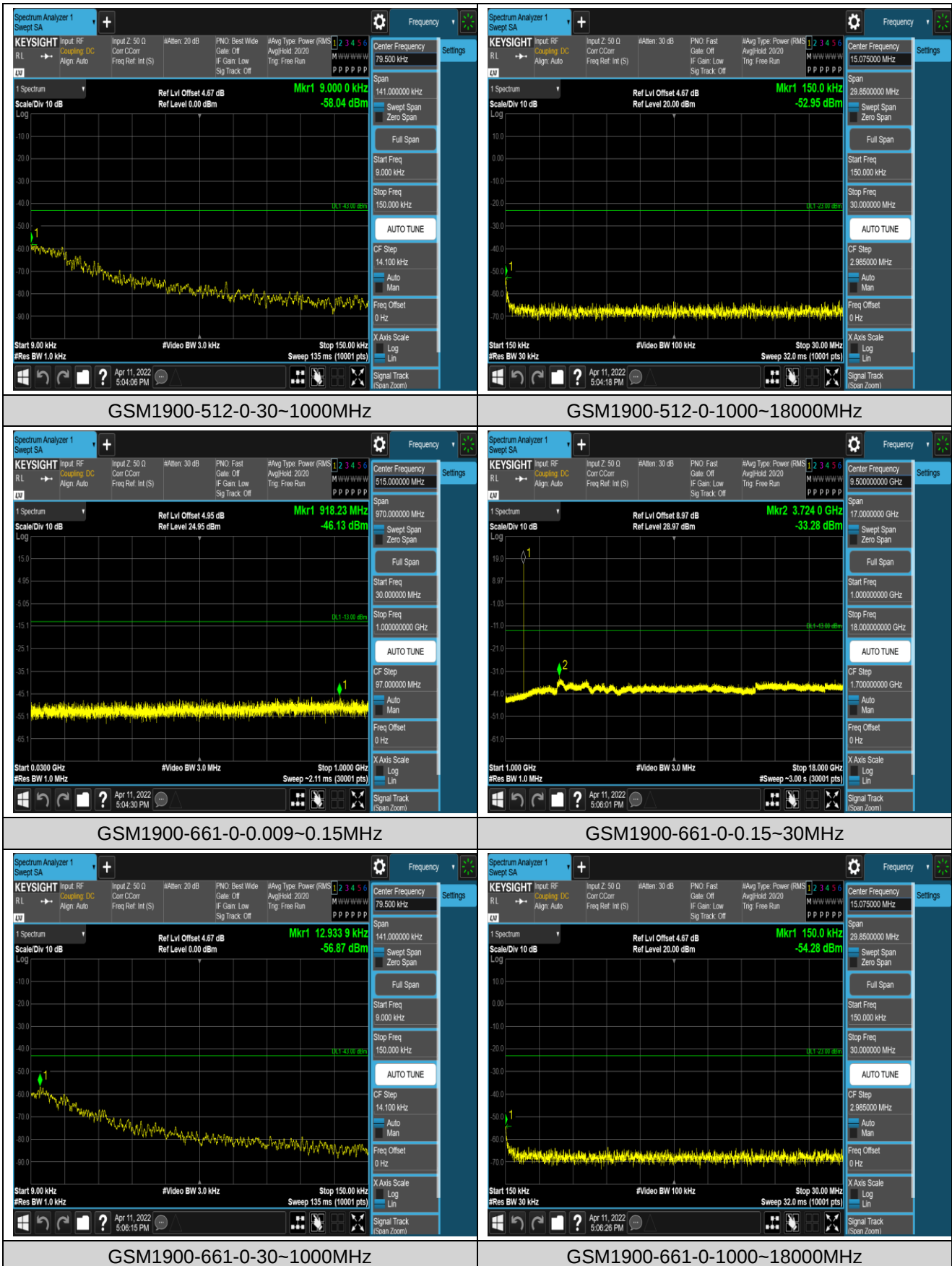
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-56.97	-33	PASS
GSM850	128	5	0.15~30MHz	0.18	-54.66	-13	PASS
GSM850	128	5	30~1000MHz	503.04	-45.62	-13	PASS
GSM850	128	5	1000~10000MHz	3820.3	-34.05	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-57.42	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-52.66	-13	PASS
GSM850	190	5	30~1000MHz	475.91	-45.52	-13	PASS
GSM850	190	5	1000~10000MHz	3801.7	-34.58	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-56.83	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-53.63	-13	PASS
GSM850	251	5	30~1000MHz	712.23	-45.84	-13	PASS
GSM850	251	5	1000~10000MHz	3807.4	-33.68	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-58.04	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-52.95	-23	PASS
GSM1900	512	0	30~1000MHz	918.23	-46.13	-13	PASS
GSM1900	512	0	1000~18000MHz	3723.97	-33.28	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.87	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-54.28	-23	PASS
GSM1900	661	0	30~1000MHz	903.26	-46.07	-13	PASS
GSM1900	661	0	1000~18000MHz	3846.93	-32.82	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.9	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-51.61	-23	PASS
GSM1900	810	0	30~1000MHz	877.2	-45.5	-13	PASS
GSM1900	810	0	1000~18000MHz	3739.27	-34.33	-13	PASS

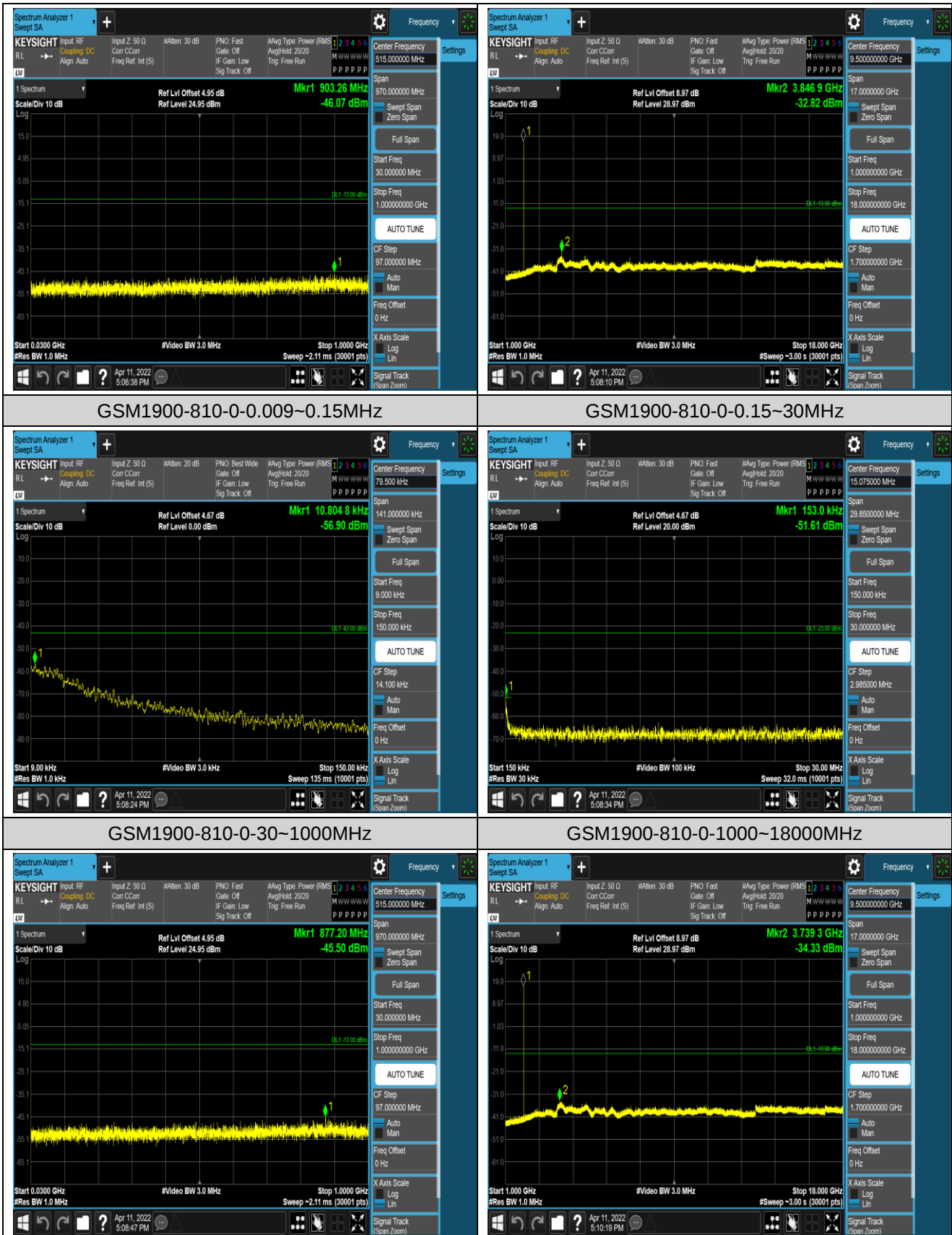
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	22.83	0.027289	±2.5	Pass
	-20	24.05	0.028747		
	-10	25.89	0.030947		
	0	23.79	0.028437		
	10	22.83	0.027289		
	20	22.73	0.027169		
	30	27.99	0.033457		
	40	23.47	0.028054		
	50	21.47	0.025663		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	23.28	0.027827	±2.5	Pass
	3.70	21.79	0.026046		
	4.25	25.05	0.029943		
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	32.06	0.038322	±2.5	Pass
	-20	31.90	0.038131		
	-10	31.38	0.037509		
	0	30.25	0.036158		
	10	30.67	0.036660		
	20	32.61	0.038979		
	30	30.99	0.037043		
	40	30.41	0.036350		
	50	32.00	0.038250		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	30.90	0.036935	±2.5	Pass
	3.70	33.48	0.040019		
	4.25	31.45	0.037593		
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	13.62	0.007245	Within authorized band for PCS 1900	Pass
	-20	15.40	0.008191		
	-10	18.44	0.009809		
	0	13.79	0.007335		
	10	16.76	0.008915		
	20	15.92	0.008468		
	30	15.59	0.008293		
	40	15.53	0.008261		
	50	14.46	0.007691		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	14.21	0.007559	Within authorized band for PCS 1900	Pass
	3.70	14.75	0.007846		
	4.25	14.69	0.007814		
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	18.76	0.009979	Within authorized band for PCS 1900	Pass
	-20	22.79	0.012122		
	-10	20.66	0.010989		
	0	20.28	0.010787		
	10	20.44	0.010872		
	20	22.76	0.012106		
	30	17.60	0.009362		
	40	19.05	0.010133		
	50	16.53	0.008793		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	20.02	0.010649	Within authorized band for PCS 1900	Pass
	3.70	20.63	0.010973		
	4.25	22.50	0.011968		
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

