

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	33.29	29.34	38.5	PASS
GSM850	190	3	33.28	28.63	38.5	PASS
GSM850	251	3	33.19	28.54	38.5	PASS
GSM1900	512	0	30.02	27.52	33	PASS
GSM1900	661	0	30.05	27.55	33	PASS
GSM1900	810	0	29.93	27.43	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	33.49	29.54	38.5	PASS
GPRS850	128	3	2	32.72	28.77	38.5	PASS
GPRS850	128	3	3	30.94	26.99	38.5	PASS
GPRS850	128	3	4	30.06	26.11	38.5	PASS
GPRS850	190	3	1	33.30	28.65	38.5	PASS
GPRS850	190	3	2	32.47	27.82	38.5	PASS
GPRS850	190	3	3	30.62	25.97	38.5	PASS
GPRS850	190	3	4	29.68	25.03	38.5	PASS
GPRS850	251	3	1	33.18	28.53	38.5	PASS
GPRS850	251	3	2	32.47	27.82	38.5	PASS
GPRS850	251	3	3	30.63	25.98	38.5	PASS
GPRS850	251	3	4	29.67	25.02	38.5	PASS
GPRS1900	512	0	1	30.12	27.62	33	PASS
GPRS1900	512	0	2	29.55	27.05	33	PASS
GPRS1900	512	0	3	27.80	25.3	33	PASS
GPRS1900	512	0	4	26.58	24.08	33	PASS
GPRS1900	661	0	1	30.05	27.55	33	PASS
GPRS1900	661	0	2	29.46	26.96	33	PASS
GPRS1900	661	0	3	27.78	25.28	33	PASS
GPRS1900	661	0	4	26.54	24.04	33	PASS
GPRS1900	810	0	1	29.86	27.36	33	PASS
GPRS1900	810	0	2	29.28	26.78	33	PASS
GPRS1900	810	0	3	27.39	24.89	33	PASS
GPRS1900	810	0	4	26.10	23.6	33	PASS

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

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

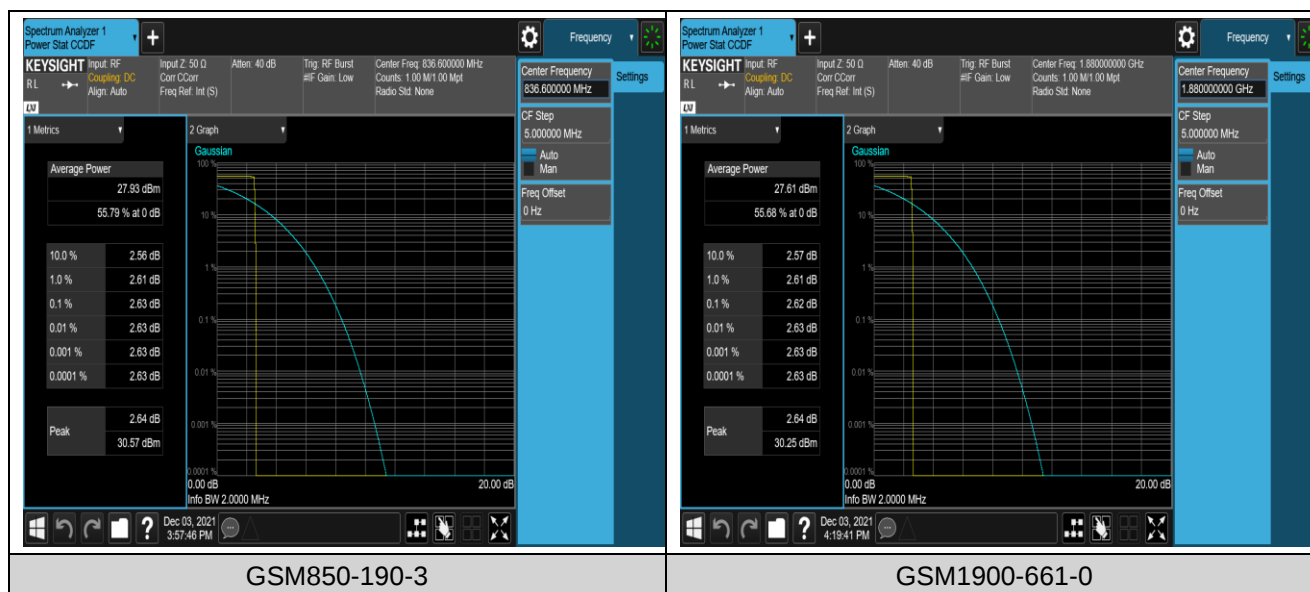
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.63	13	PASS
GSM1900	661	0	2.62	13	PASS

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

Test Graphs

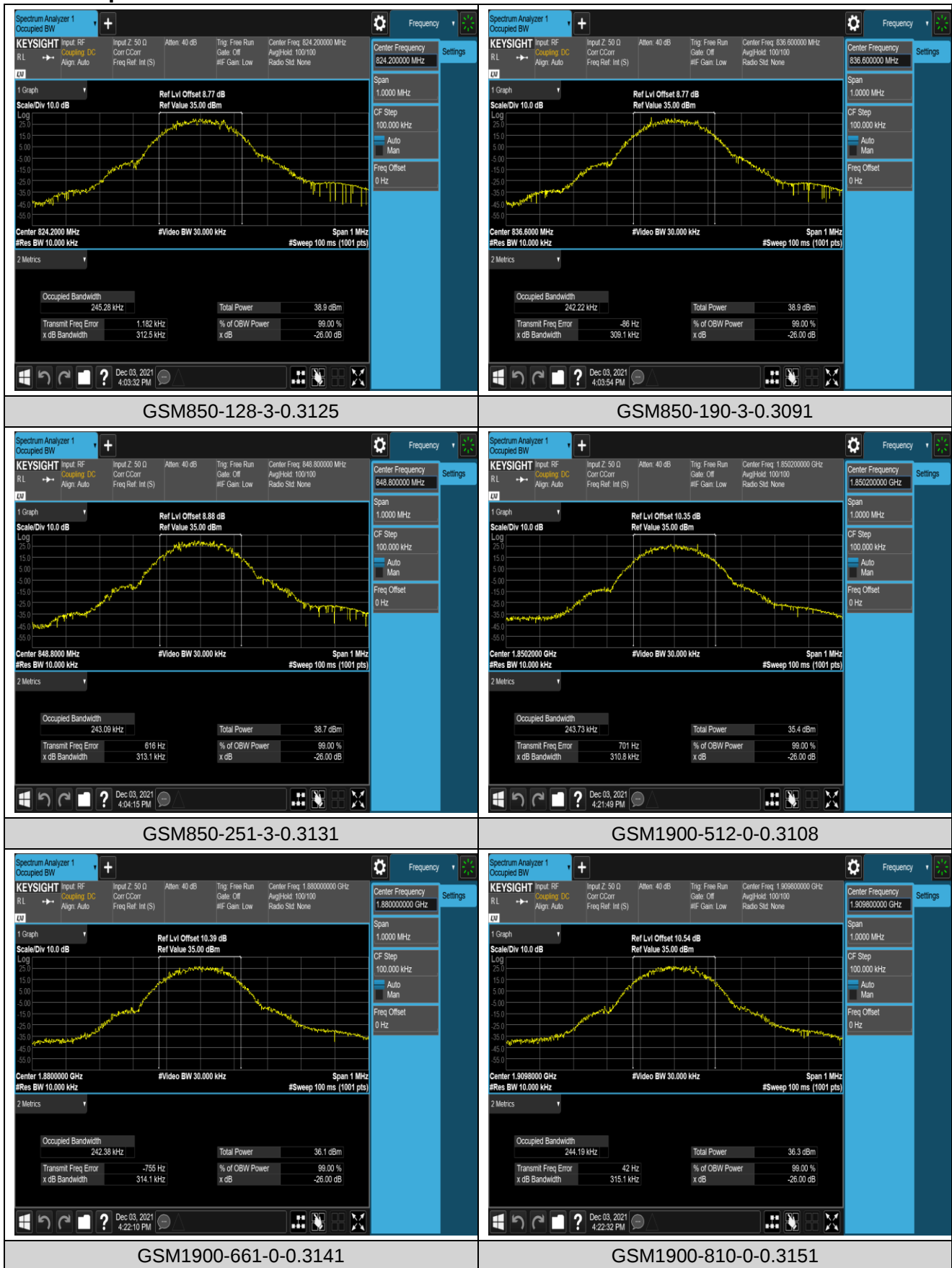


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24528	0.3125	---	PASS
GSM850	190	3	0.24222	0.3091	---	PASS
GSM850	251	3	0.24309	0.3131	---	PASS
GSM1900	512	0	0.24373	0.3108	---	PASS
GSM1900	661	0	0.24238	0.3141	---	PASS
GSM1900	810	0	0.24419	0.3151	---	PASS

Test Graphs

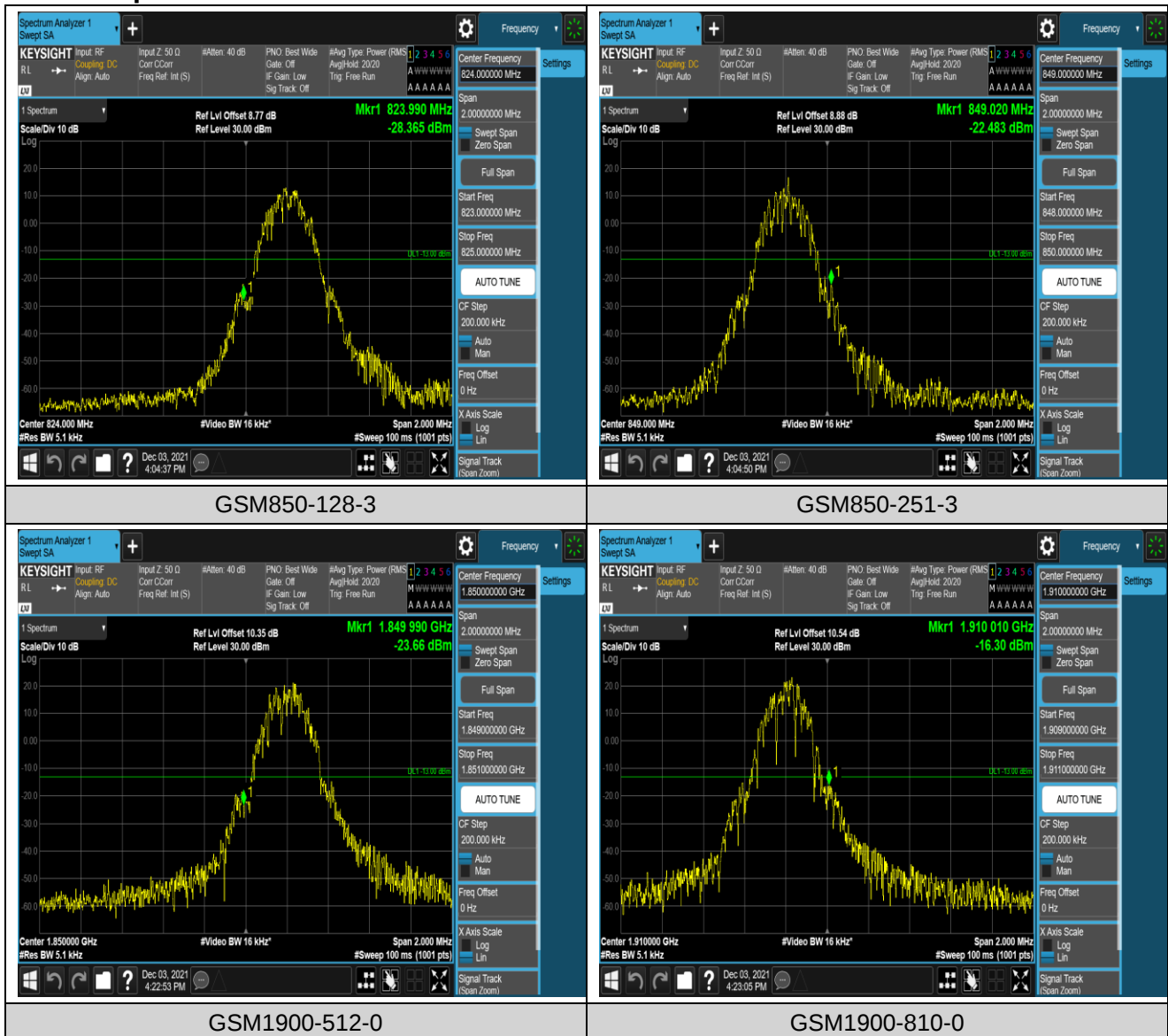


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.99	-28.365	-13	PASS
GSM850	251	3	849.02	-22.483	-13	PASS
GSM1900	512	0	1849.99	-23.66	-13	PASS
GSM1900	810	0	1910.01	-16.30	-13	PASS

Test Graphs



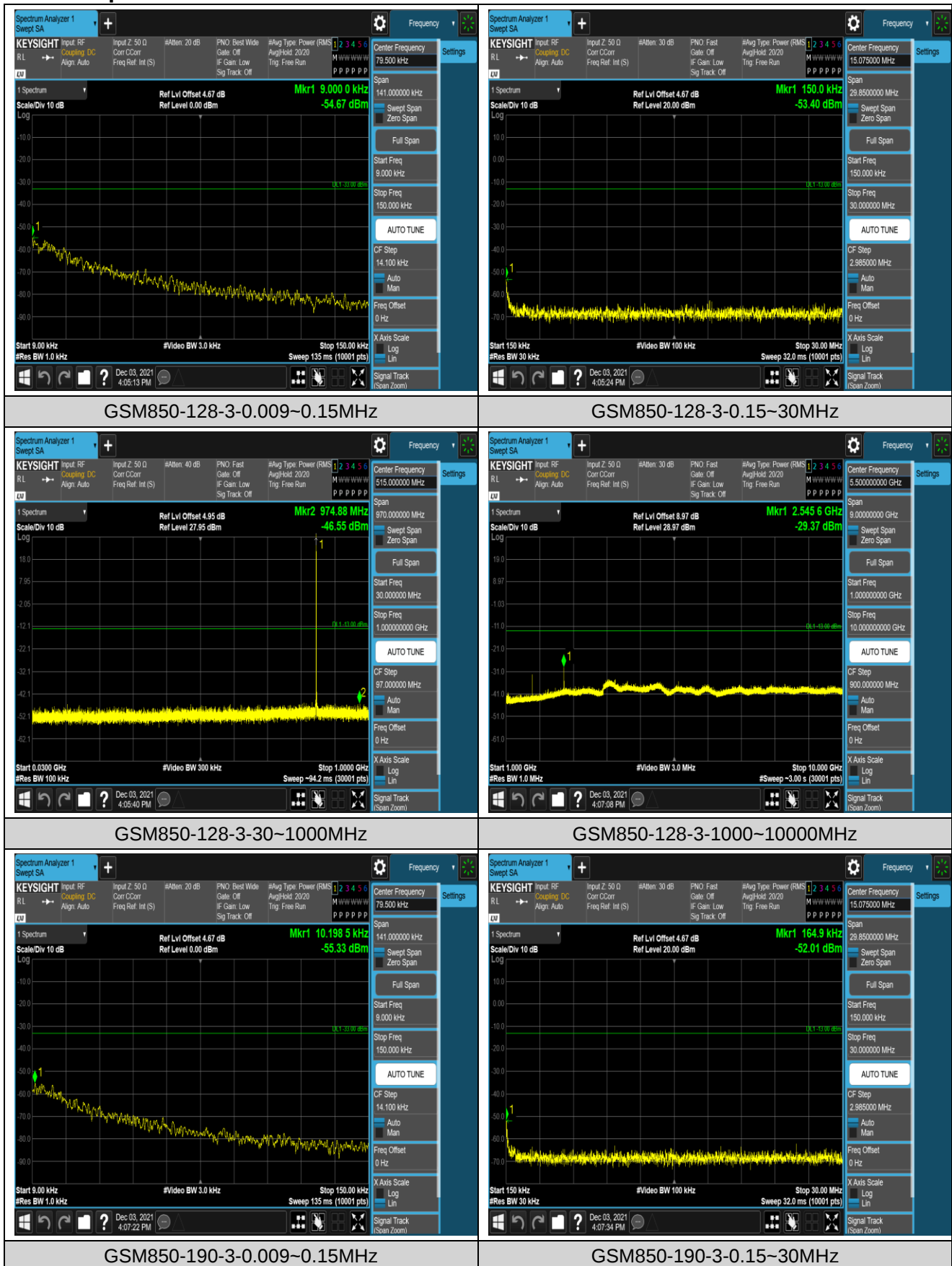
Appendix E: Conducted Spurious Emission

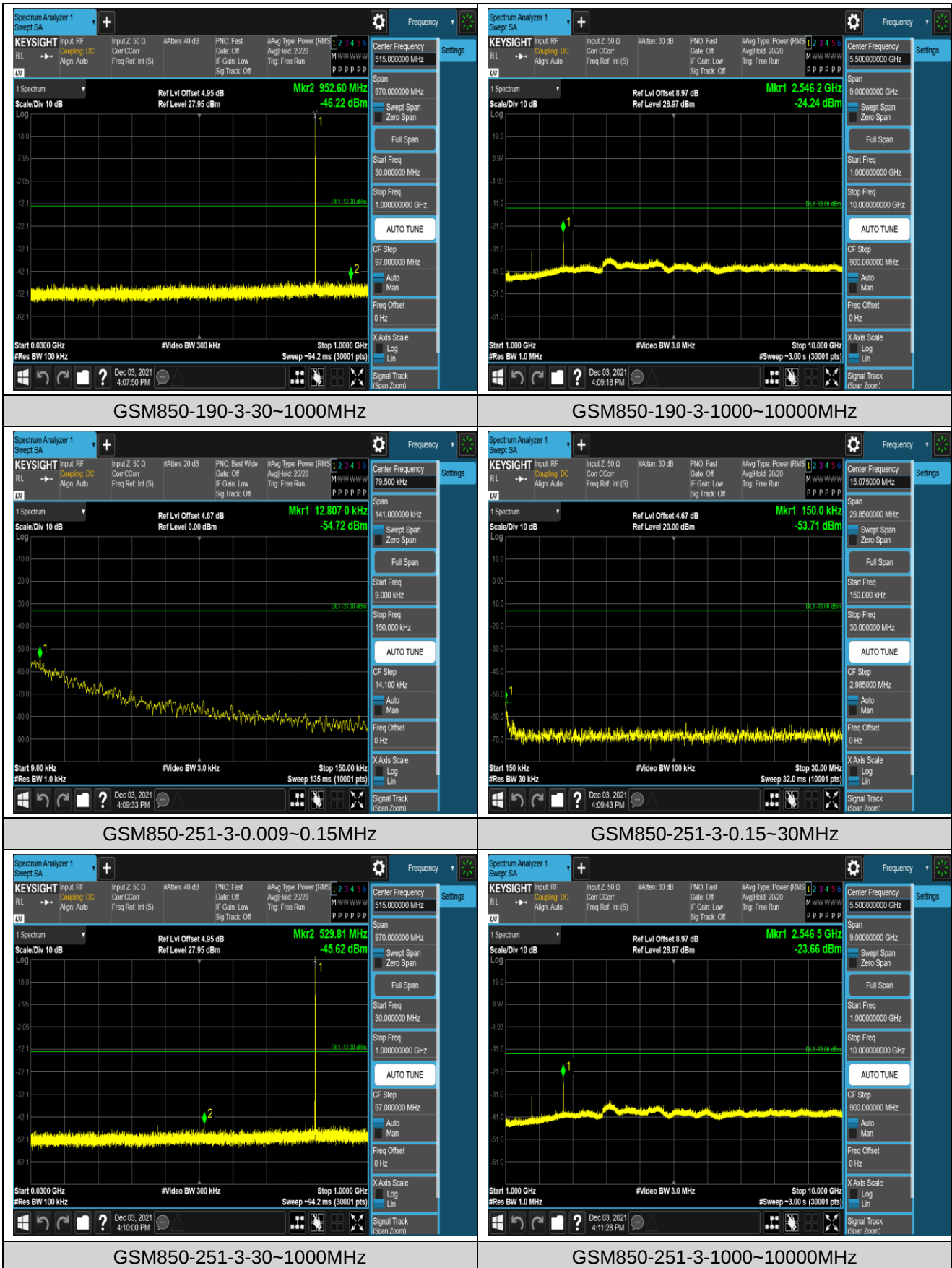
Test Result

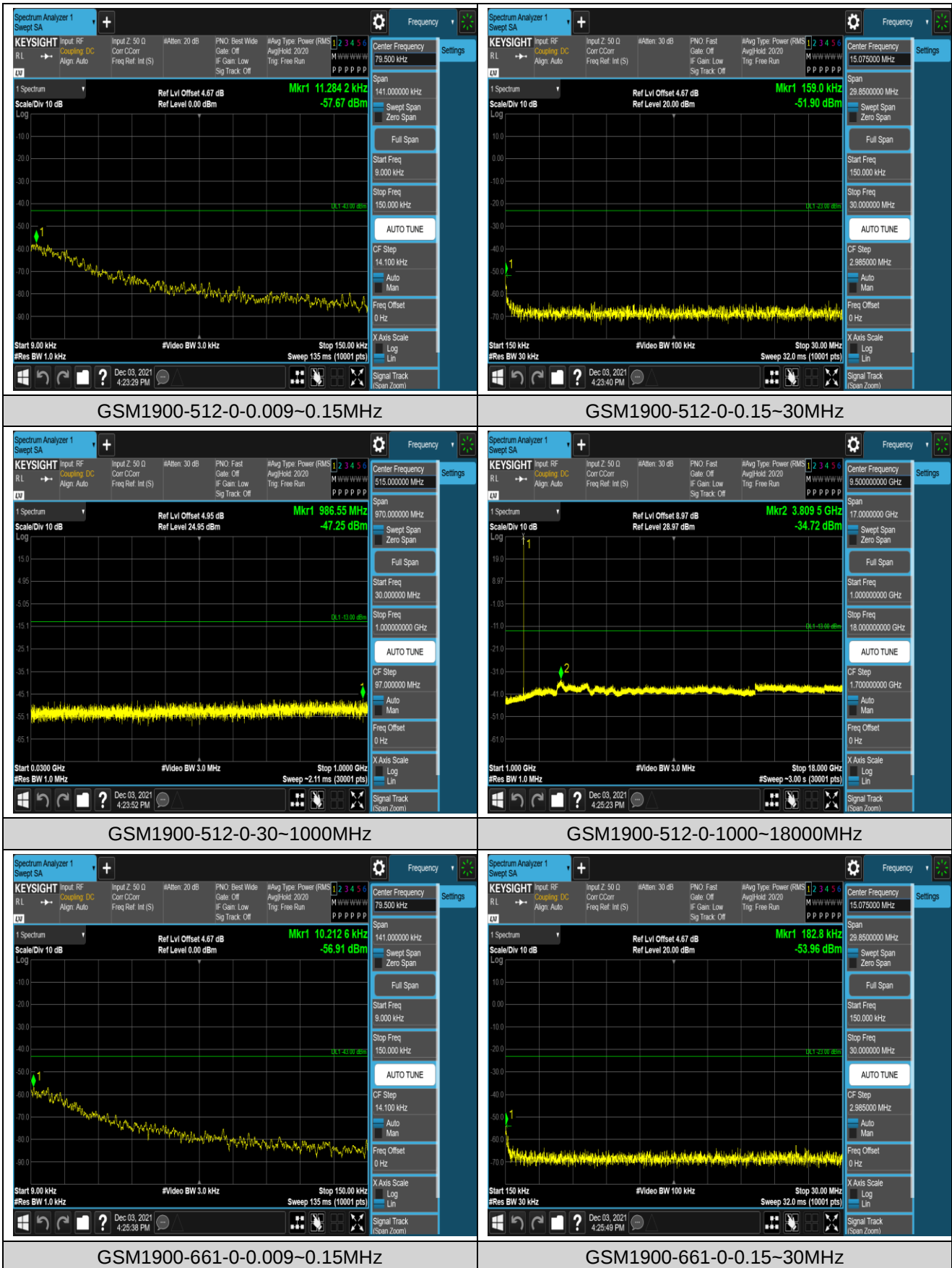
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-54.67	-33	PASS
GSM850	128	3	0.15~30MHz	0.15	-53.4	-13	PASS
GSM850	128	3	30~1000MHz	974.88	-46.55	-13	PASS
GSM850	128	3	1000~10000MHz	2545.6	-29.37	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-55.33	-33	PASS
GSM850	190	3	0.15~30MHz	0.16	-52.01	-13	PASS
GSM850	190	3	30~1000MHz	952.6	-46.22	-13	PASS
GSM850	190	3	1000~10000MHz	2546.2	-24.24	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-54.72	-33	PASS
GSM850	251	3	0.15~30MHz	0.15	-53.71	-13	PASS
GSM850	251	3	30~1000MHz	529.81	-45.62	-13	PASS
GSM850	251	3	1000~10000MHz	2546.5	-23.66	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-57.68	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-51.9	-23	PASS
GSM1900	512	0	30~1000MHz	986.55	-47.25	-13	PASS
GSM1900	512	0	1000~18000MHz	3809.53	-34.72	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.91	-43	PASS
GSM1900	661	0	0.15~30MHz	0.18	-53.96	-23	PASS
GSM1900	661	0	30~1000MHz	867.56	-46.87	-13	PASS
GSM1900	661	0	1000~18000MHz	5066.4	-35.09	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.05	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-54.76	-23	PASS
GSM1900	810	0	30~1000MHz	704.8	-47.34	-13	PASS
GSM1900	810	0	1000~18000MHz	3789.7	-34.59	-13	PASS

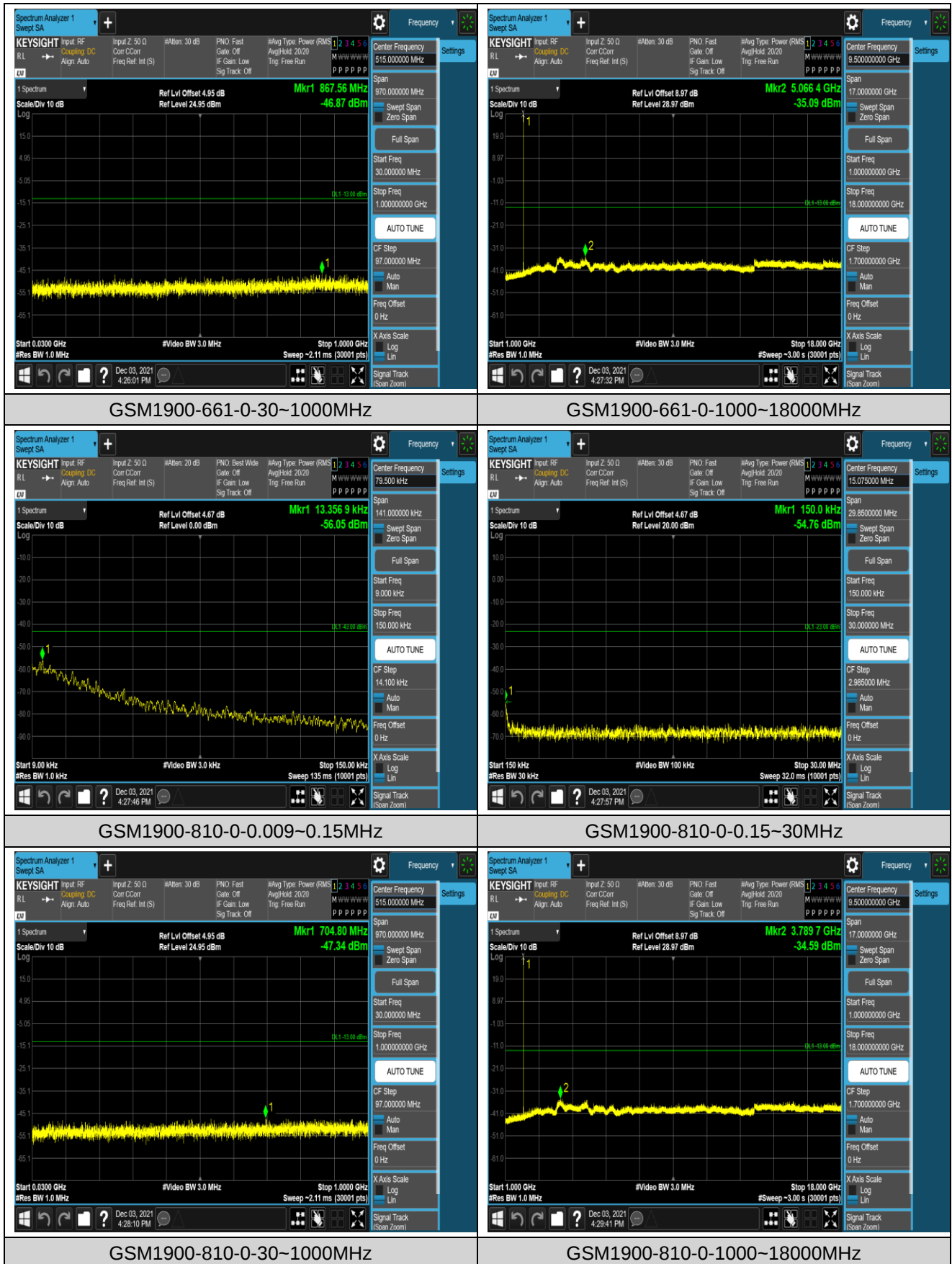
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.7	-30	-4.2	-0.00502	±2.5	Pass
	-20	-4.39	-0.005247		
	-10	1.78	0.002128		
	0	-11.3	-0.013507		
	10	-6.62	-0.007913		
	20	-6.46	-0.007722		
	30	-5.2	-0.006216		
	40	-17.11	-0.020452		
	50	-11.27	-0.013471		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-9.56	-0.011427	±2.5	Pass
	3.70	-6.2	-0.007411		
	4.20	3.65	0.004363		
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		
3.7	-30	-5.2	-0.002766	Within authorized band for PCS 1900	Pass
	-20	-13.11	-0.006973		
	-10	2.03	0.00108		
	0	-0.42	-0.000223		
	10	-6.42	-0.003415		
	20	-7.94	-0.004223		
	30	-12.24	-0.006511		
	40	-6.68	-0.003553		
	50	-10.88	-0.005787		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	3.42	0.001819	Within authorized band for PCS 1900	Pass
	3.70	-9.43	-0.005016		
	4.20	-0.16	-0.000085		
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
GSM1900	661	PASS	PASS

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

Test Graphs

