

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	32.65	29.8	38.45	PASS
GSM850	190	5	32.41	29.56	38.45	PASS
GSM850	251	5	32.09	29.24	38.45	PASS
GSM1900	512	0	28.45	29.25	33.00	PASS
GSM1900	661	0	28.60	29.4	33.00	PASS
GSM1900	810	0	28.53	29.33	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.74	29.89	38.45	PASS
GPRS850	128	5	2	30.40	27.55	38.45	PASS
GPRS850	128	5	3	28.42	25.57	38.45	PASS
GPRS850	128	5	4	26.18	23.33	38.45	PASS
GPRS850	190	5	1	32.48	29.63	38.45	PASS
GPRS850	190	5	2	30.16	27.31	38.45	PASS
GPRS850	190	5	3	28.19	25.34	38.45	PASS
GPRS850	190	5	4	25.99	23.14	38.45	PASS
GPRS850	251	5	1	32.17	29.32	38.45	PASS
GPRS850	251	5	2	29.84	26.99	38.45	PASS
GPRS850	251	5	3	27.86	25.01	38.45	PASS
GPRS850	251	5	4	25.62	22.77	38.45	PASS
GPRS1900	512	0	1	28.41	29.21	33.00	PASS
GPRS1900	512	0	2	25.94	26.74	33.00	PASS
GPRS1900	512	0	3	24.26	25.06	33.00	PASS
GPRS1900	512	0	4	22.18	22.98	33.00	PASS
GPRS1900	661	0	1	28.56	29.36	33.00	PASS
GPRS1900	661	0	2	26.07	26.87	33.00	PASS
GPRS1900	661	0	3	24.35	25.15	33.00	PASS
GPRS1900	661	0	4	22.28	23.08	33.00	PASS
GPRS1900	810	0	1	28.48	29.28	33.00	PASS
GPRS1900	810	0	2	25.99	26.79	33.00	PASS
GPRS1900	810	0	3	24.27	25.07	33.00	PASS
GPRS1900	810	0	4	22.19	22.99	33.00	PASS

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

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

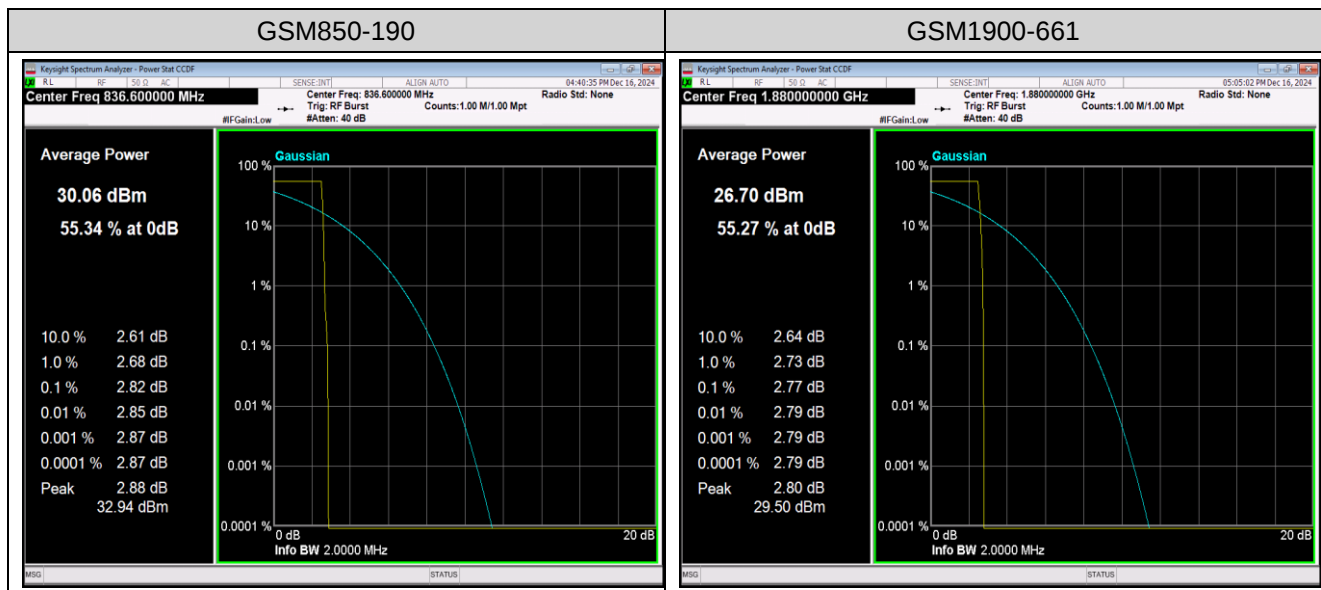
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.82	13	PASS
GSM1900	661	0	2.77	13	PASS

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

Test Graphs

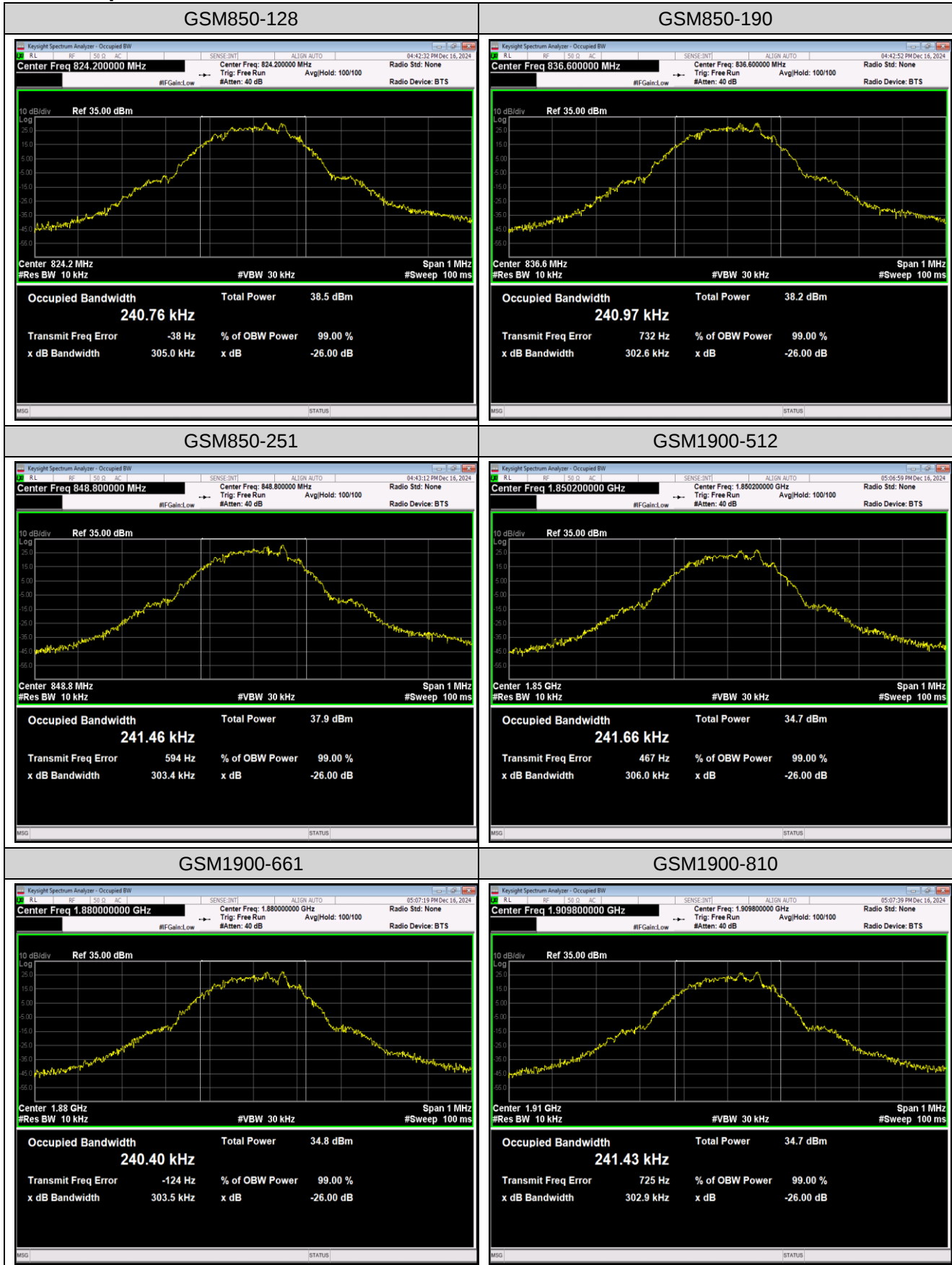


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24076	0.3050	---	PASS
GSM850	190	5	0.24097	0.3026	---	PASS
GSM850	251	5	0.24146	0.3034	---	PASS
GSM1900	512	0	0.24166	0.3060	---	PASS
GSM1900	661	0	0.24040	0.3035	---	PASS
GSM1900	810	0	0.24143	0.3029	---	PASS

Test Graphs

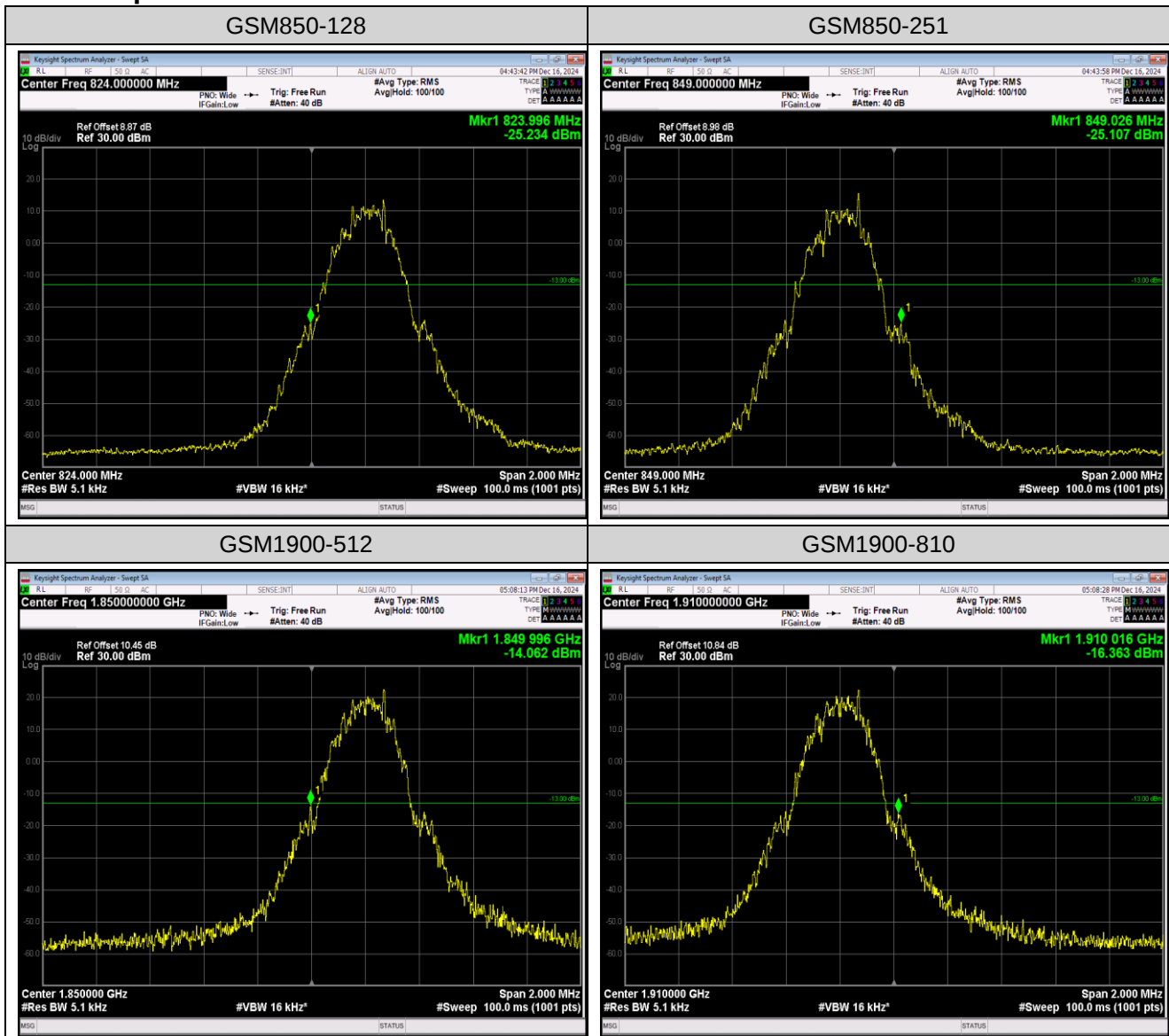


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-25.23	-13	PASS
GSM850	251	5	849.03	-25.11	-13	PASS
GSM1900	512	0	1850.00	-14.06	-13	PASS
GSM1900	810	0	1910.02	-16.36	-13	PASS

Test Graphs



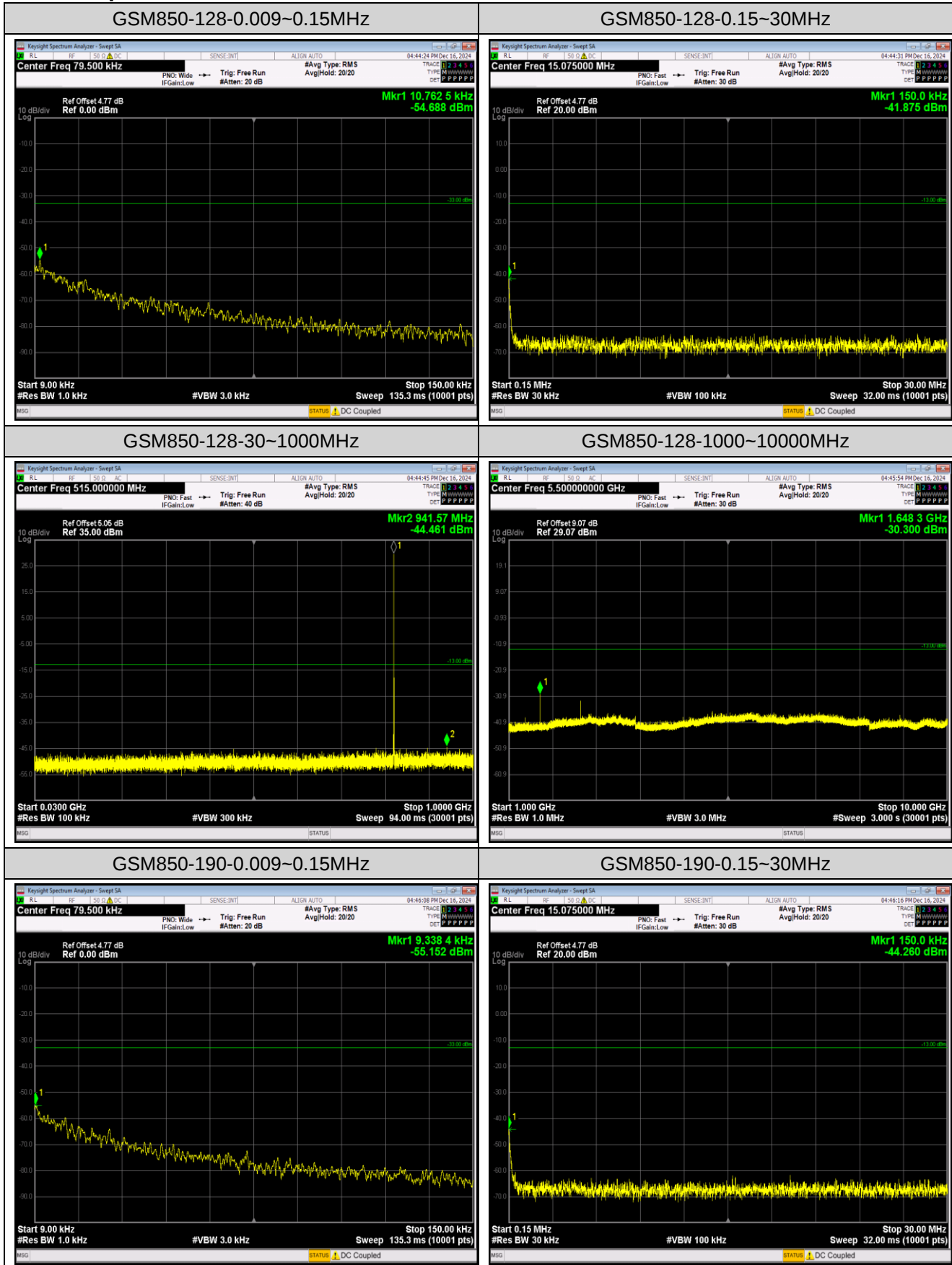
Appendix E: Conducted Spurious Emission

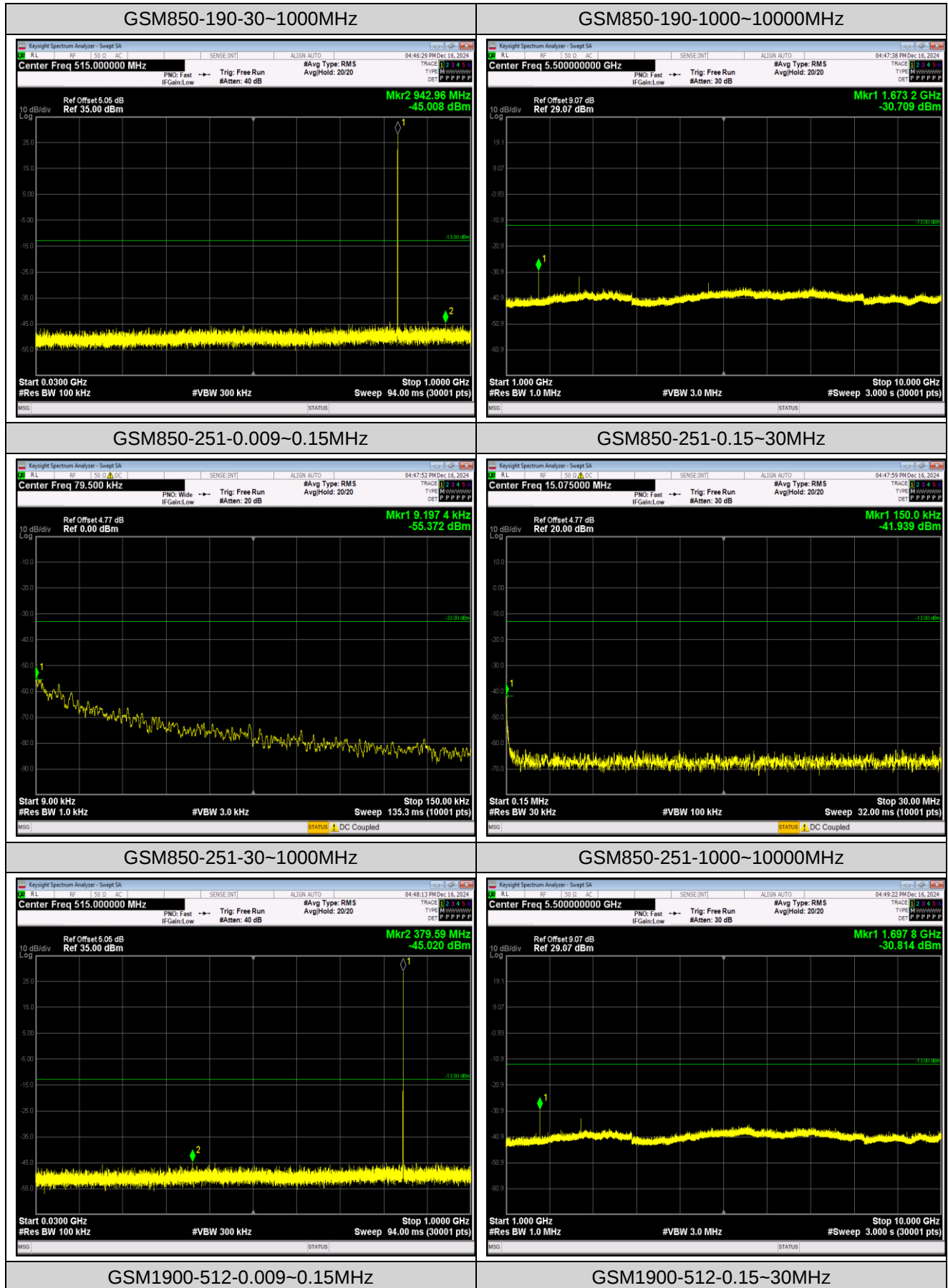
Test Result

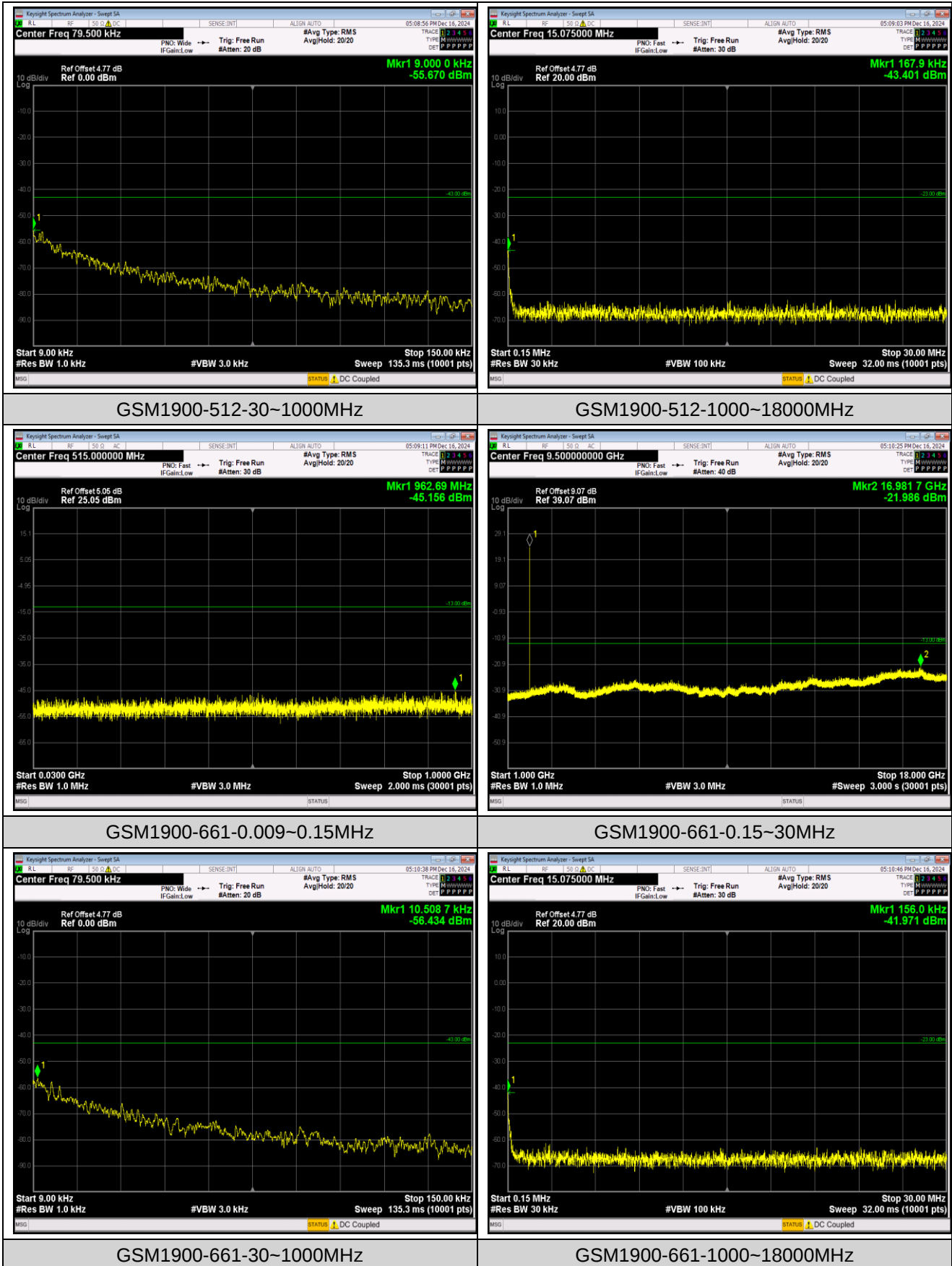
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.69	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.88	-13	PASS
GSM850	128	5	30~1000MHz	941.57	-44.46	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-30.3	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.15	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-44.26	-13	PASS
GSM850	190	5	30~1000MHz	942.96	-45.01	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-30.71	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.37	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-41.94	-13	PASS
GSM850	251	5	30~1000MHz	379.59	-45.02	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-30.81	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.67	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-43.4	-23	PASS
GSM1900	512	0	30~1000MHz	962.69	-45.16	-13	PASS
GSM1900	512	0	1000~18000MHz	16981.7	-21.99	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.43	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-41.97	-23	PASS
GSM1900	661	0	30~1000MHz	955.35	-45.64	-13	PASS
GSM1900	661	0	1000~18000MHz	16986.8	-22.26	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.95	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-42.15	-23	PASS
GSM1900	810	0	30~1000MHz	819.84	-45.55	-13	PASS
GSM1900	810	0	1000~18000MHz	16907.47	-22.4	-13	PASS

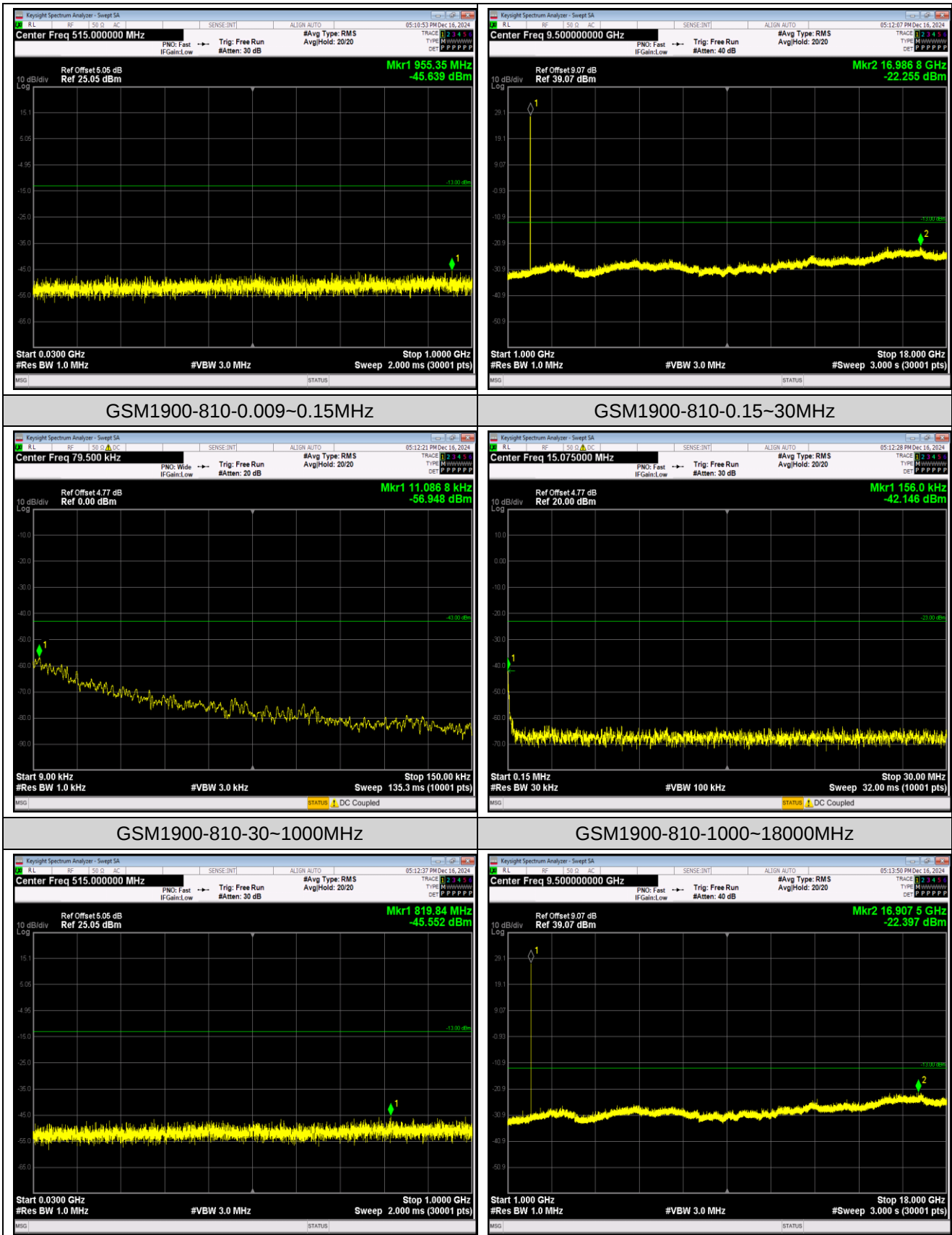
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	-0.94	-0.001124	±2.5	Pass
	-20	-3.13	-0.003741		
	-10	-1.68	-0.002008		
	0	-2.52	-0.003012		
	10	-5.71	-0.006825		
	20	-0.65	-0.000777		
	30	-3.23	-0.003861		
	40	-2.03	-0.002426		
	50	-5.97	-0.007136		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.55	-2.32	-0.002773	±2.5	Pass
	3.70	-2.10	-0.002510		
	4.20	2.26	0.002701		
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	6.65	0.003537	Within authorized band for PCS 1900	Pass
	-20	0.68	0.000362		
	-10	4.71	0.002505		
	0	-5.07	-0.002697		
	10	-3.03	-0.001612		
	20	0.39	0.000207		
	30	1.78	0.000947		
	40	3.33	0.001771		
	50	1.23	0.000654		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.55	0.74	0.000394	Within authorized band for PCS 1900	Pass
	3.70	7.01	0.003729		
	4.20	-0.06	-0.000032		
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

