

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	33.09	24.04	38.45	PASS
GSM850	190	5	32.99	23.94	38.45	PASS
GSM850	251	5	32.85	23.8	38.45	PASS
GSM1900	512	0	29.36	26.56	33.00	PASS
GSM1900	661	0	29.68	26.88	33.00	PASS
GSM1900	810	0	29.43	26.63	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.07	24.02	38.45	PASS
GPRS850	128	5	2	32.37	23.32	38.45	PASS
GPRS850	128	5	3	30.52	21.47	38.45	PASS
GPRS850	128	5	4	29.26	20.21	38.45	PASS
GPRS850	190	5	1	32.94	23.89	38.45	PASS
GPRS850	190	5	2	32.22	23.17	38.45	PASS
GPRS850	190	5	3	30.35	21.3	38.45	PASS
GPRS850	190	5	4	29.08	20.03	38.45	PASS
GPRS850	251	5	1	32.81	23.76	38.45	PASS
GPRS850	251	5	2	32.08	23.03	38.45	PASS
GPRS850	251	5	3	30.24	21.19	38.45	PASS
GPRS850	251	5	4	28.97	19.92	38.45	PASS
GPRS1900	512	0	1	29.44	26.64	33.00	PASS
GPRS1900	512	0	2	28.69	25.89	33.00	PASS
GPRS1900	512	0	3	26.82	24.02	33.00	PASS
GPRS1900	512	0	4	25.56	22.76	33.00	PASS
GPRS1900	661	0	1	29.69	26.89	33.00	PASS
GPRS1900	661	0	2	28.93	26.13	33.00	PASS
GPRS1900	661	0	3	27.03	24.23	33.00	PASS
GPRS1900	661	0	4	25.77	22.97	33.00	PASS
GPRS1900	810	0	1	29.43	26.63	33.00	PASS
GPRS1900	810	0	2	28.67	25.87	33.00	PASS
GPRS1900	810	0	3	26.73	23.93	33.00	PASS
GPRS1900	810	0	4	25.47	22.67	33.00	PASS

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

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

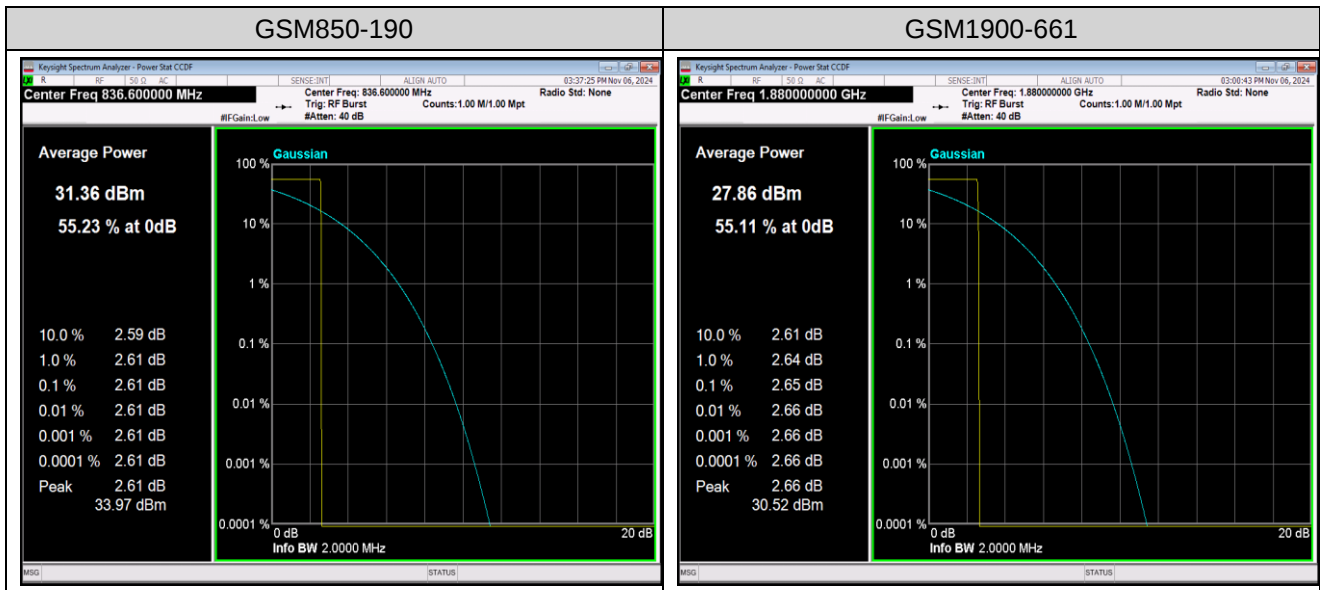
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.61	13	PASS
GSM1900	661	0	2.65	13	PASS

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

Test Graphs

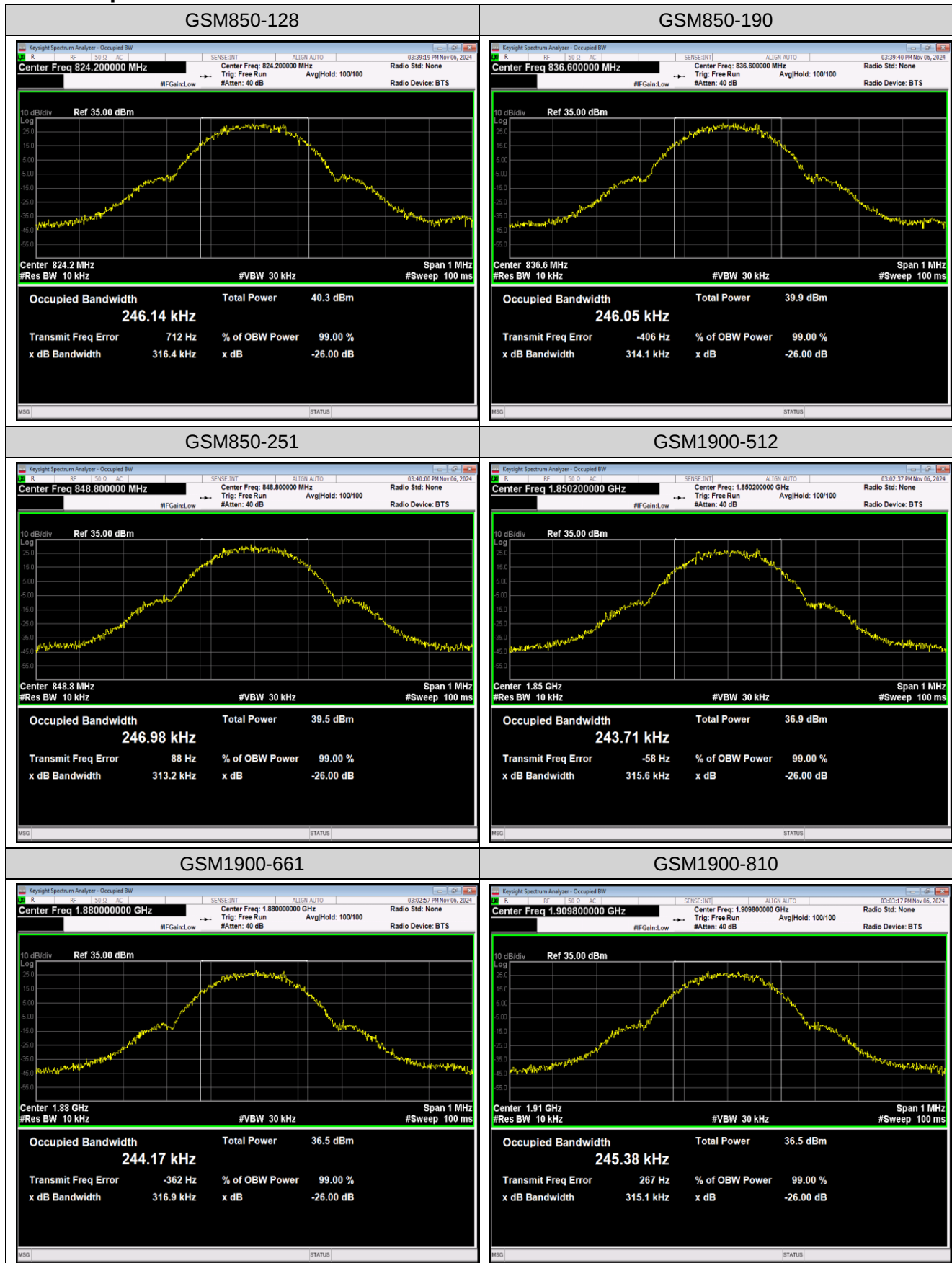


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24614	0.3164	---	PASS
GSM850	190	5	0.24605	0.3141	---	PASS
GSM850	251	5	0.24698	0.3132	---	PASS
GSM1900	512	0	0.24371	0.3156	---	PASS
GSM1900	661	0	0.24417	0.3169	---	PASS
GSM1900	810	0	0.24538	0.3151	---	PASS

Test Graphs

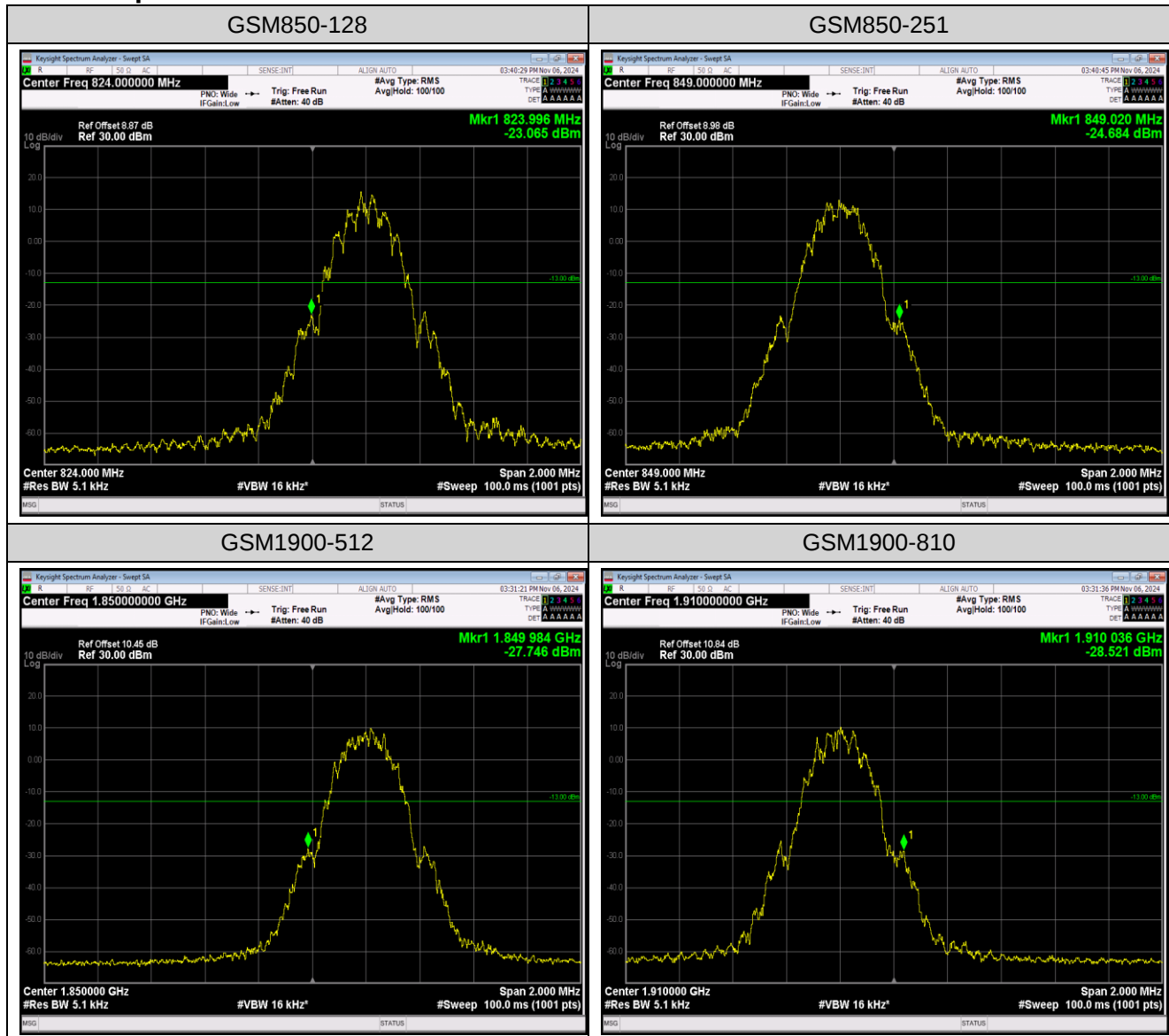


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.07	-13	PASS
GSM850	251	5	849.02	-24.68	-13	PASS
GSM1900	512	0	1849.98	-27.75	-13	PASS
GSM1900	810	0	1910.04	-28.52	-13	PASS

Test Graphs



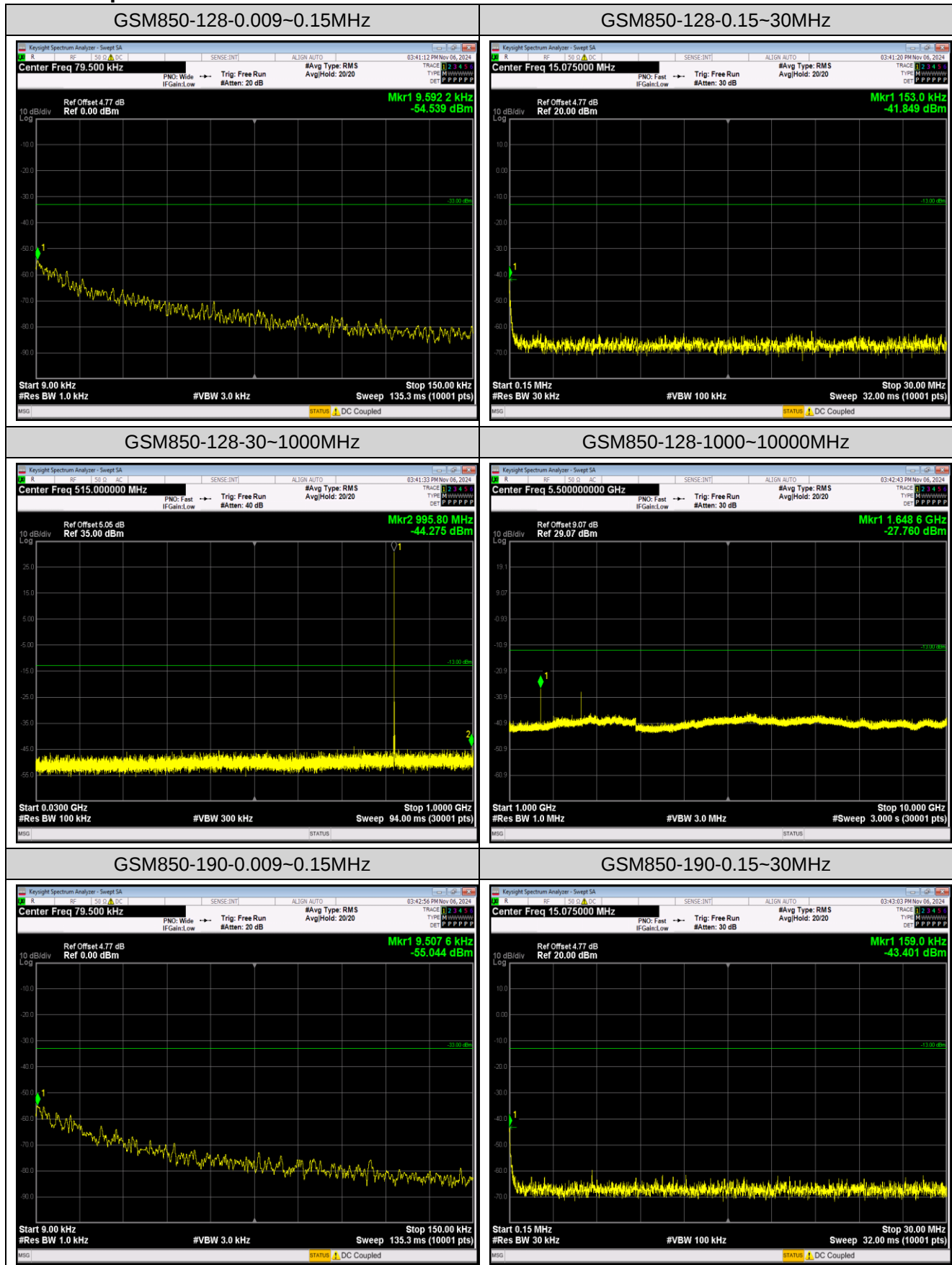
Appendix E: Conducted Spurious Emission

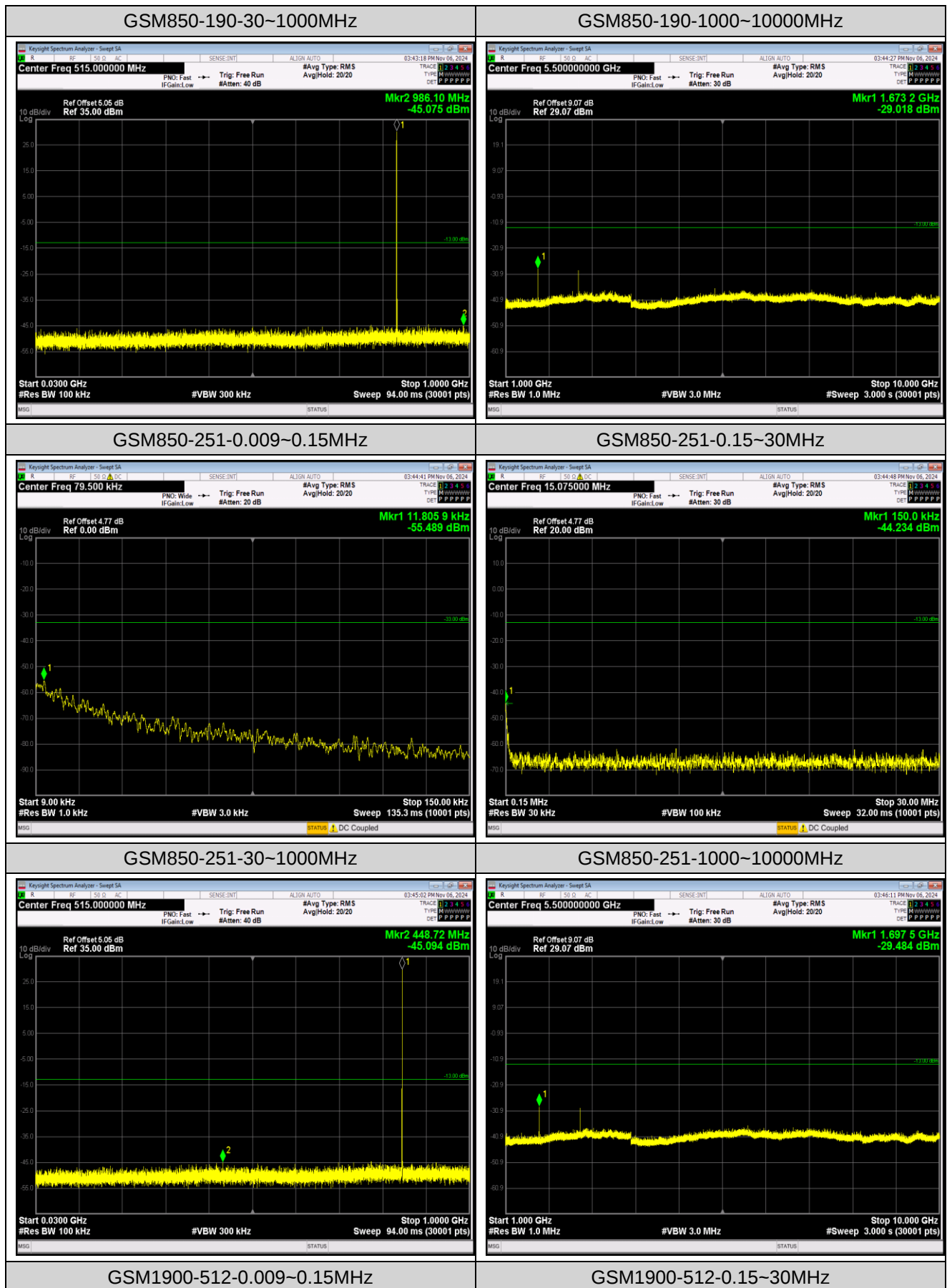
Test Result

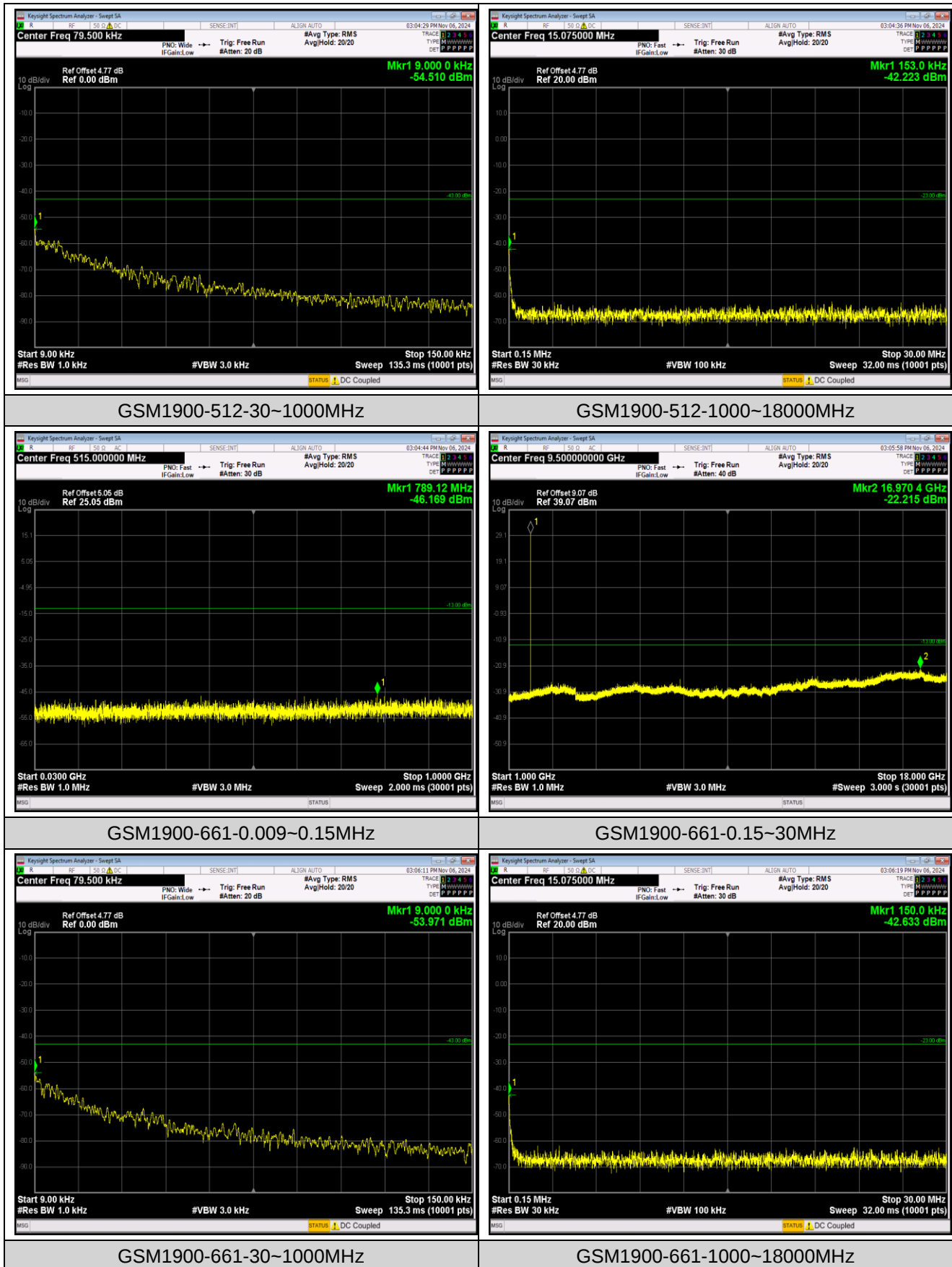
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.54	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.85	-13	PASS
GSM850	128	5	30~1000MHz	995.8	-44.28	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-27.76	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.04	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-43.4	-13	PASS
GSM850	190	5	30~1000MHz	986.1	-45.08	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-29.02	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.49	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-44.23	-13	PASS
GSM850	251	5	30~1000MHz	448.72	-45.09	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-29.48	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.51	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.22	-23	PASS
GSM1900	512	0	30~1000MHz	789.12	-46.17	-13	PASS
GSM1900	512	0	1000~18000MHz	16970.37	-22.22	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-53.97	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.63	-23	PASS
GSM1900	661	0	30~1000MHz	974.62	-45.85	-13	PASS
GSM1900	661	0	1000~18000MHz	16166.27	-22.2	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.96	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-42.64	-23	PASS
GSM1900	810	0	30~1000MHz	725.52	-46.27	-13	PASS
GSM1900	810	0	1000~18000MHz	16986.8	-21.82	-13	PASS

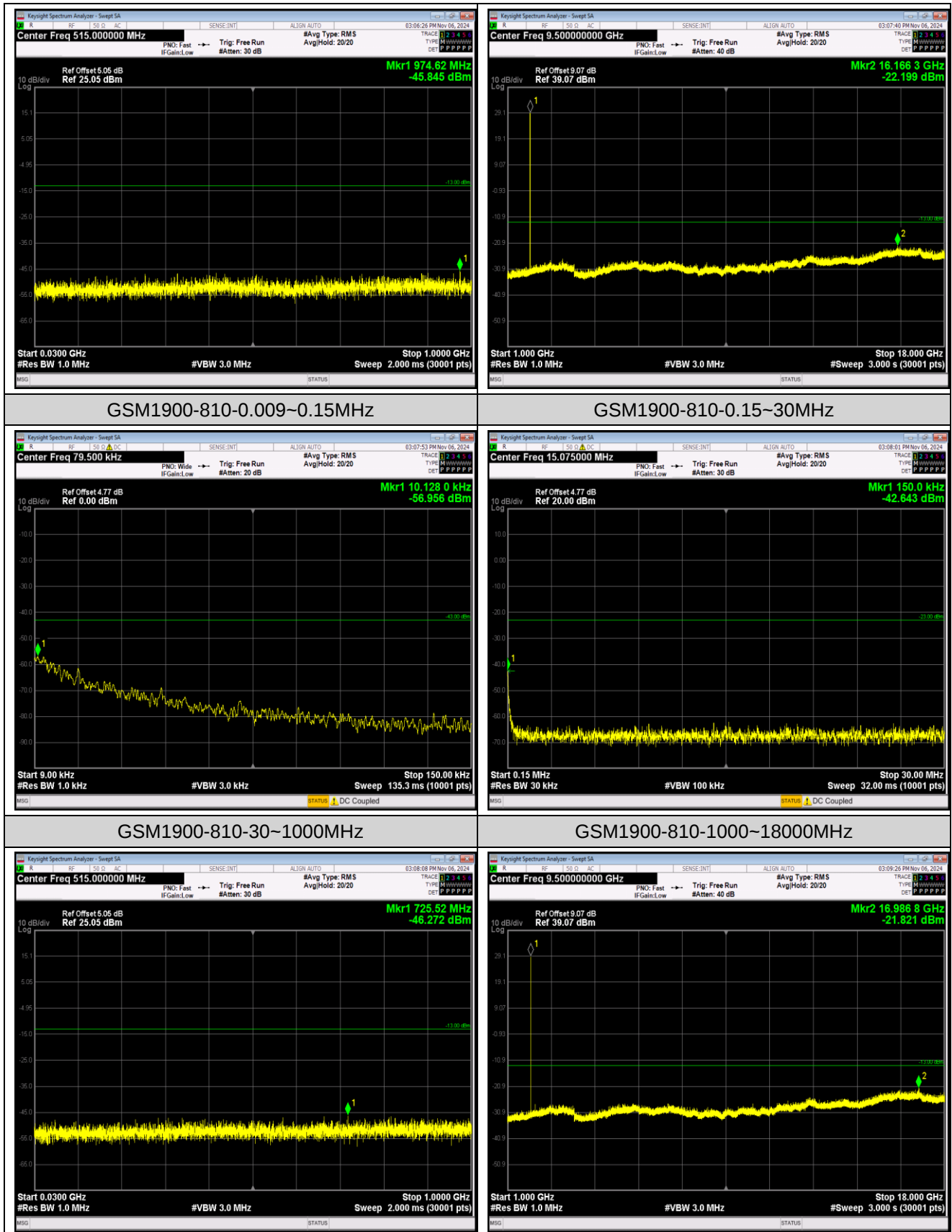
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.91	-30	-12.85	-0.015360	±2.5	Pass
	-20	-10.27	-0.012276		
	-10	-14.08	-0.016830		
	0	-13.95	-0.016675		
	10	-7.72	-0.009228		
	20	9.49	0.011344		
	30	11.04	0.013196		
	40	10.40	0.012431		
	50	6.49	0.007758		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-15.66	-0.018719	±2.5	Pass
	3.91	-11.01	-0.013160		
	4.50	-15.14	-0.018097		
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		
3.91	-30	-29.48	-0.015681	Within authorized band for PCS 1900	Pass
	-20	27.77	0.014771		
	-10	12.30	0.006543		
	0	36.32	0.019319		
	10	5.36	0.002851		
	20	33.22	0.017670		
	30	25.73	0.013686		
	40	32.96	0.017532		
	50	23.70	0.012606		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-8.68	-0.004617	Within authorized band for PCS 1900	Pass
	3.91	-14.24	-0.007574		
	4.50	-16.37	-0.008707		
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

