

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	32.47	31.16	38.45	PASS
GSM850	190	5	32.80	31.49	38.45	PASS
GSM850	251	5	32.87	31.56	38.45	PASS
GSM1900	512	0	30.61	31.19	33.00	PASS
GSM1900	661	0	30.75	31.33	33.00	PASS
GSM1900	810	0	30.76	31.34	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.56	31.25	38.45	PASS
GPRS850	128	5	2	30.83	29.52	38.45	PASS
GPRS850	128	5	3	28.68	27.37	38.45	PASS
GPRS850	128	5	4	27.69	26.38	38.45	PASS
GPRS850	190	5	1	32.88	31.57	38.45	PASS
GPRS850	190	5	2	31.23	29.92	38.45	PASS
GPRS850	190	5	3	29.11	27.8	38.45	PASS
GPRS850	190	5	4	28.13	26.82	38.45	PASS
GPRS850	251	5	1	32.96	31.65	38.45	PASS
GPRS850	251	5	2	31.32	30.01	38.45	PASS
GPRS850	251	5	3	29.20	27.89	38.45	PASS
GPRS850	251	5	4	28.23	26.92	38.45	PASS
GPRS1900	512	0	1	30.63	31.21	33.00	PASS
GPRS1900	512	0	2	29.64	30.22	33.00	PASS
GPRS1900	512	0	3	27.90	28.48	33.00	PASS
GPRS1900	512	0	4	26.96	27.54	33.00	PASS
GPRS1900	661	0	1	30.80	31.38	33.00	PASS
GPRS1900	661	0	2	29.94	30.52	33.00	PASS
GPRS1900	661	0	3	28.34	28.92	33.00	PASS
GPRS1900	661	0	4	27.42	28	33.00	PASS
GPRS1900	810	0	1	30.82	31.4	33.00	PASS
GPRS1900	810	0	2	29.92	30.5	33.00	PASS
GPRS1900	810	0	3	28.27	28.85	33.00	PASS
GPRS1900	810	0	4	27.36	27.94	33.00	PASS

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

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

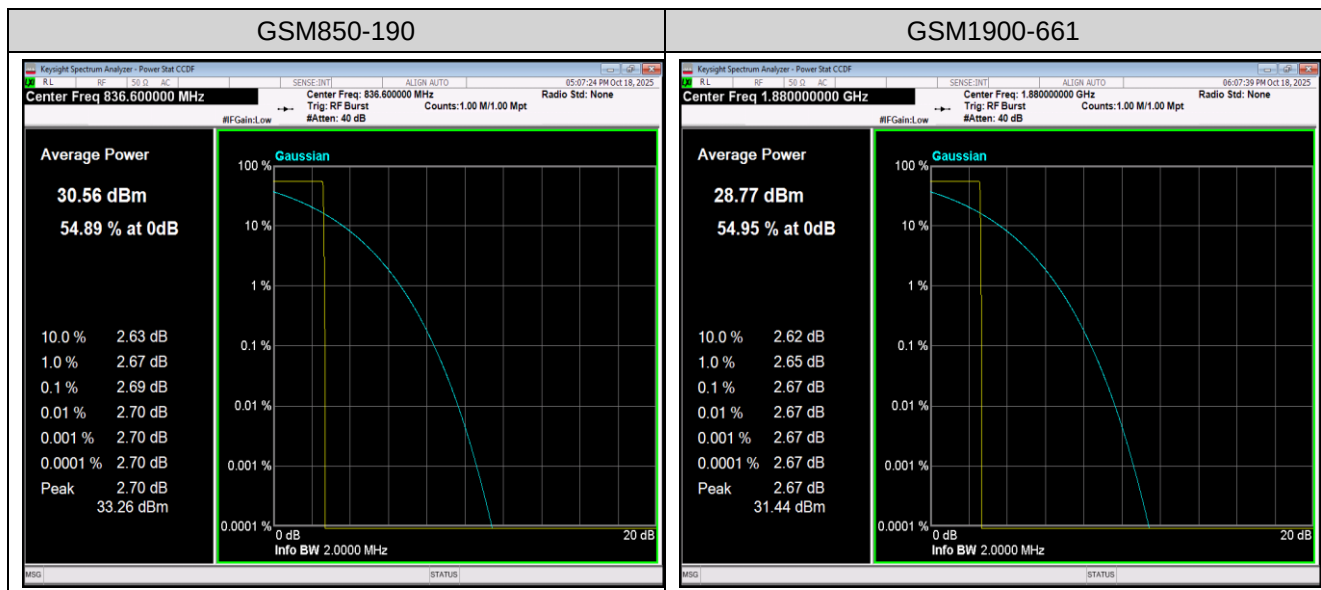
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.69	13	PASS
GSM1900	661	0	2.67	13	PASS

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

Test Graphs

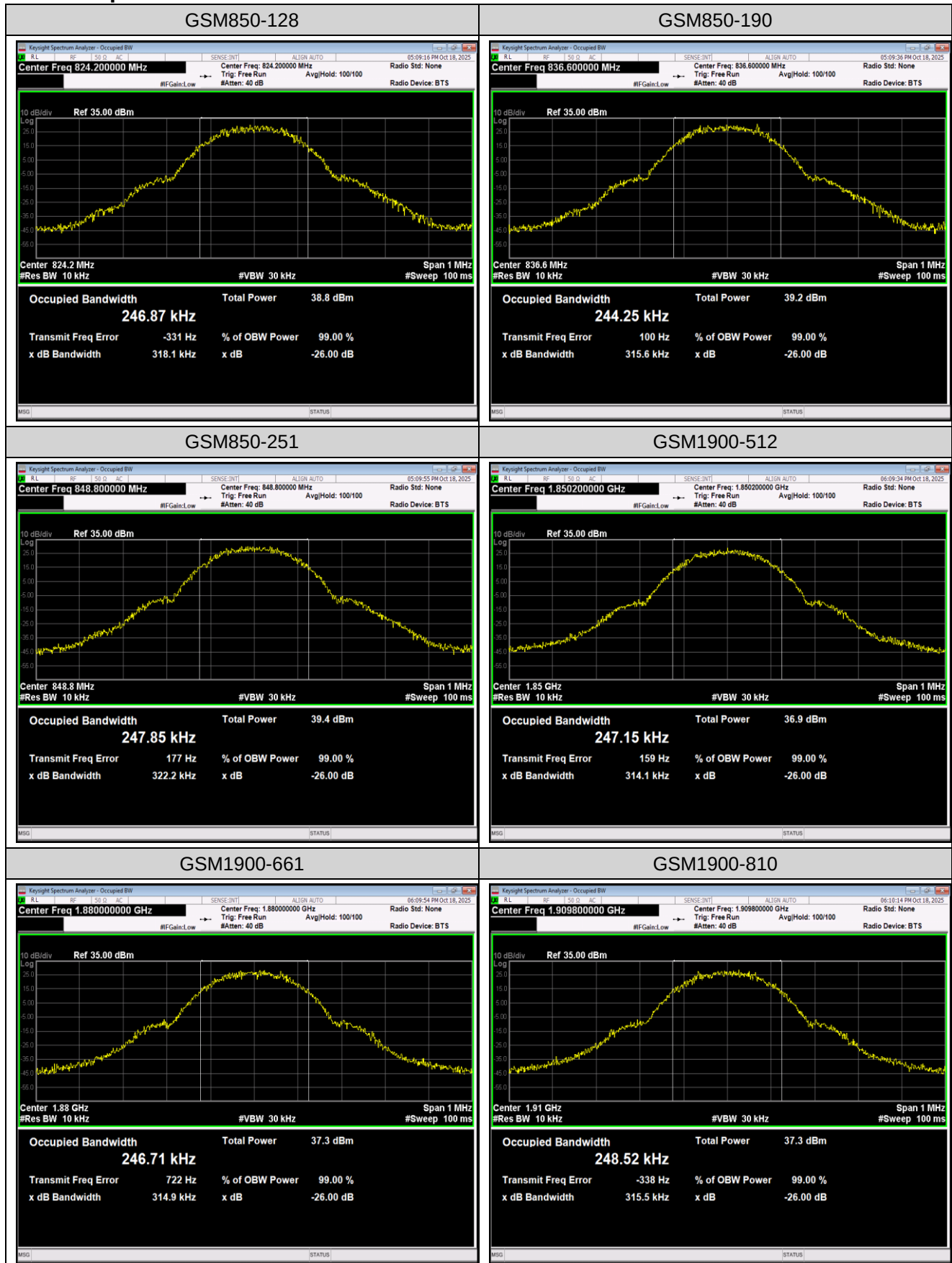


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24687	0.3181	---	PASS
GSM850	190	5	0.24425	0.3156	---	PASS
GSM850	251	5	0.24785	0.3222	---	PASS
GSM1900	512	0	0.24715	0.3141	---	PASS
GSM1900	661	0	0.24671	0.3149	---	PASS
GSM1900	810	0	0.24852	0.3155	---	PASS

Test Graphs



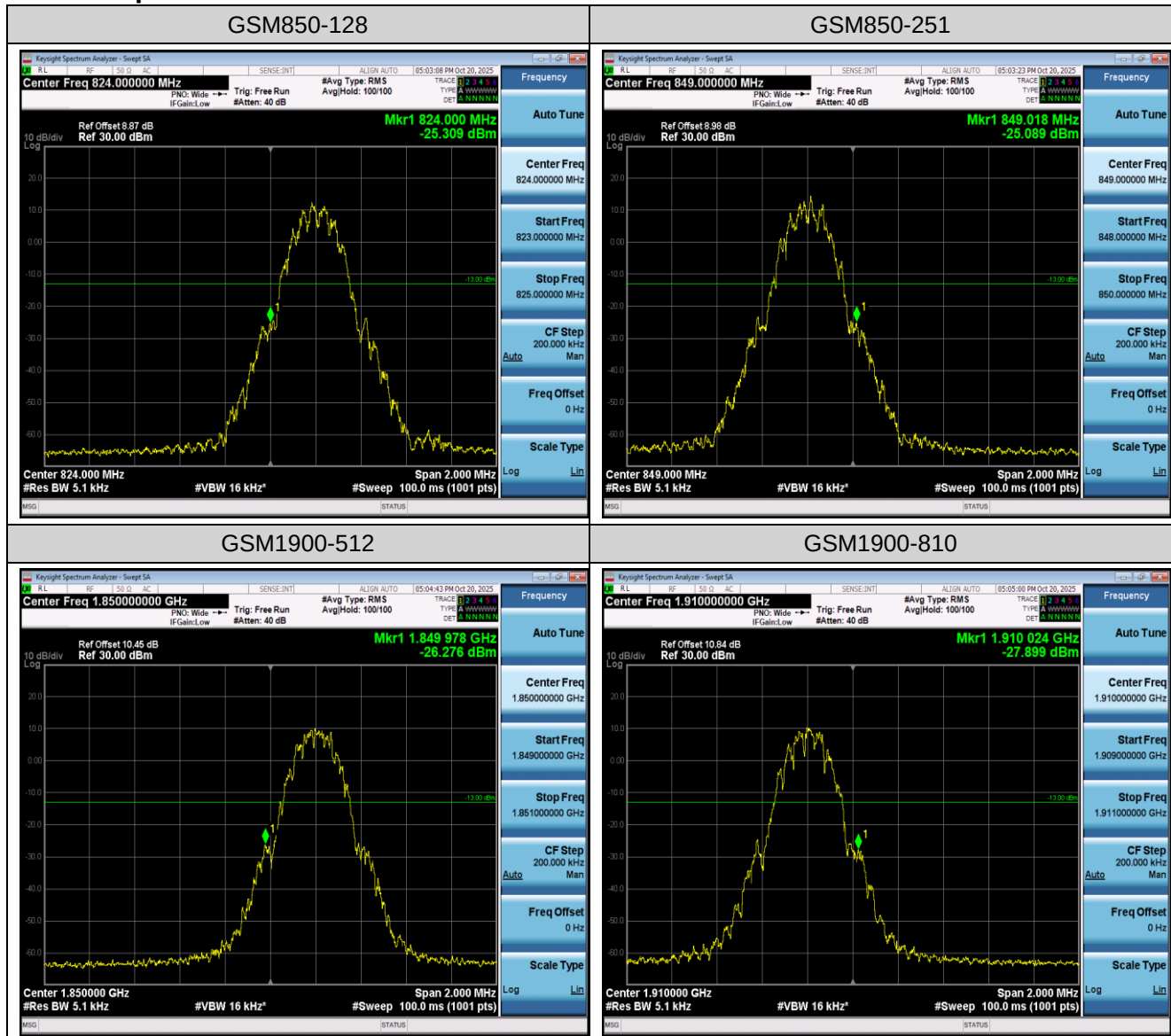


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-25.31	-13	PASS
GSM850	251	5	849.02	-25.09	-13	PASS
GSM1900	512	0	1849.98	-26.28	-13	PASS
GSM1900	810	0	1910.02	-27.90	-13	PASS

Test Graphs



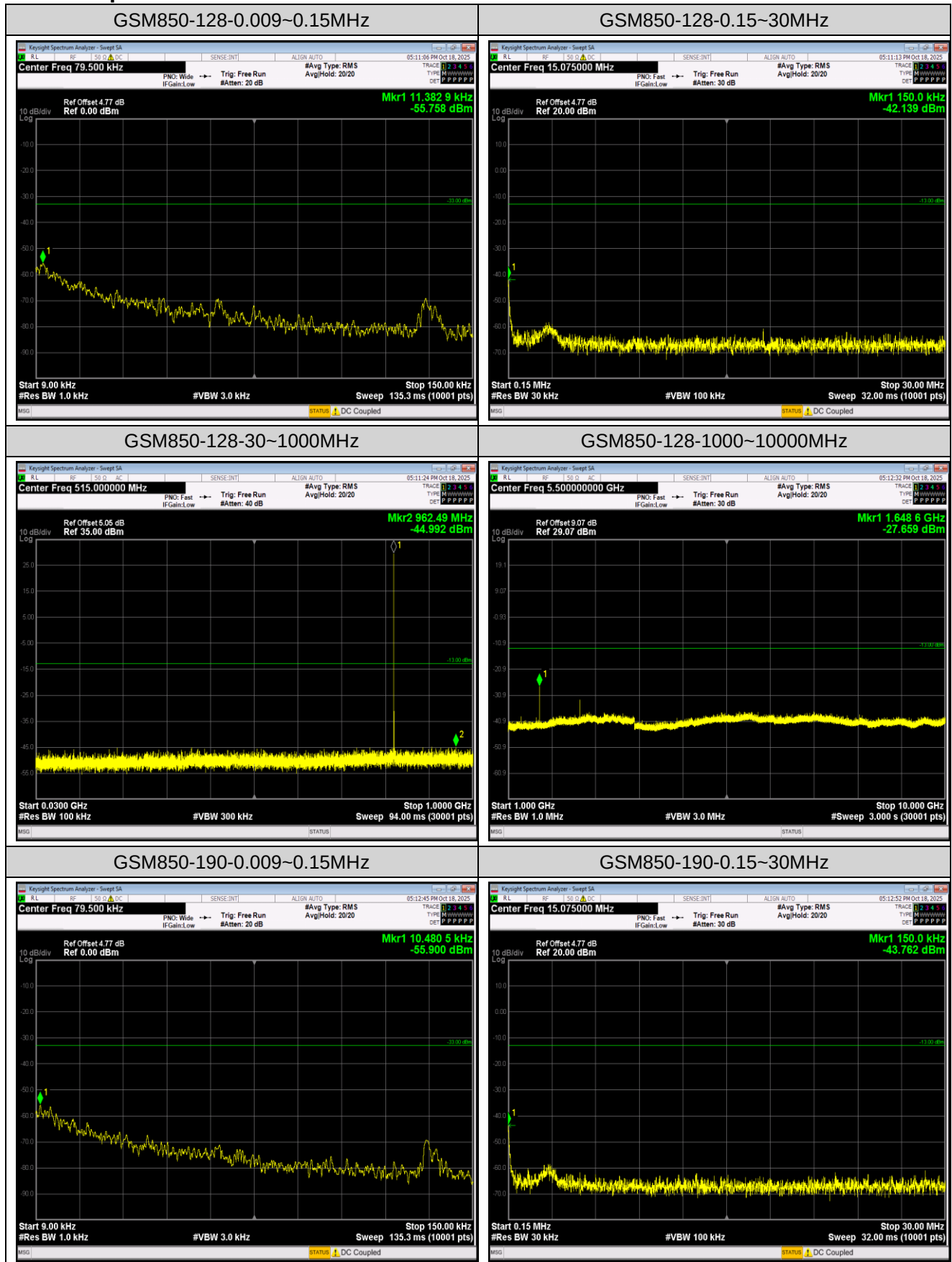
Appendix E: Conducted Spurious Emission

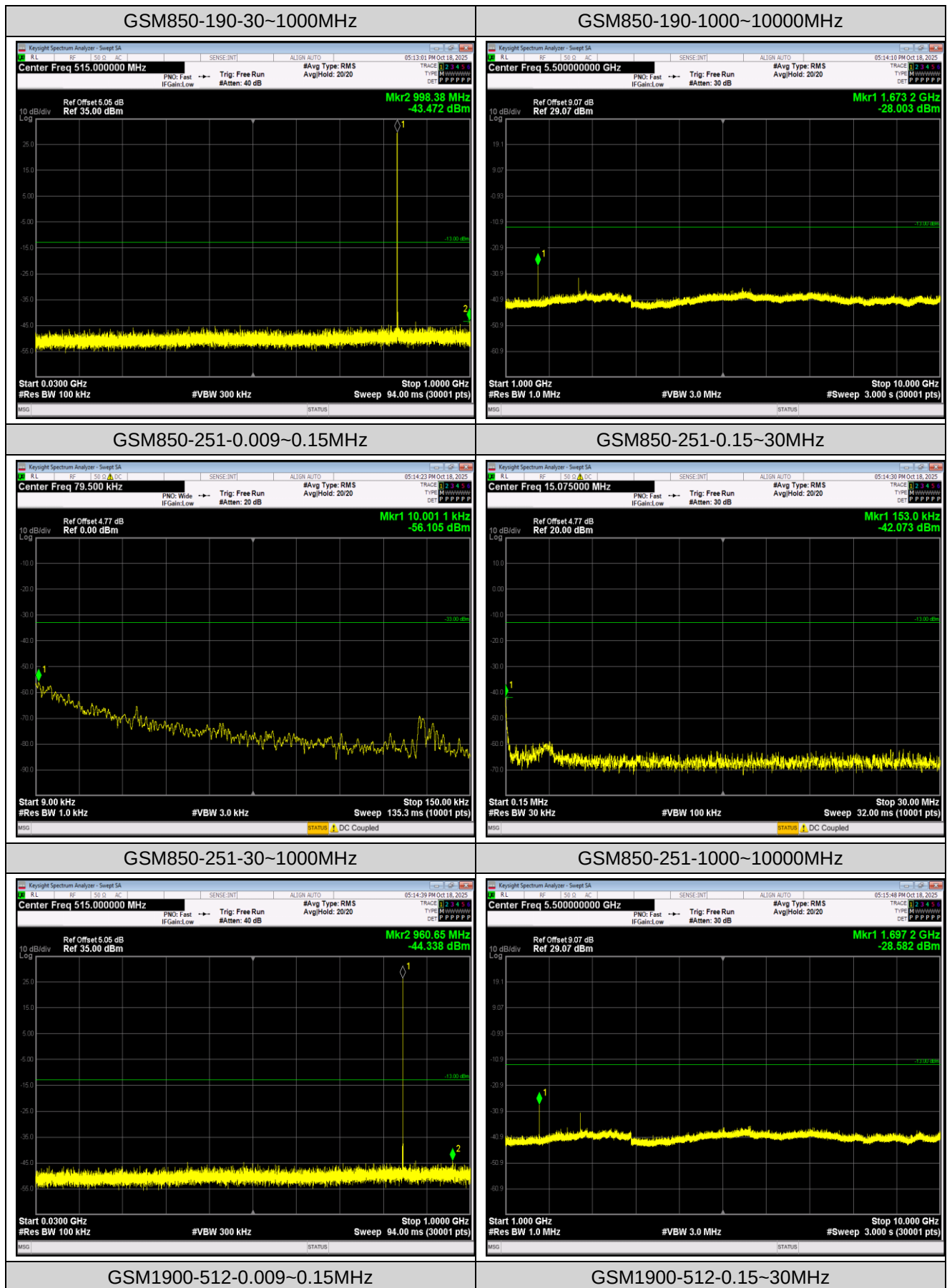
Test Result

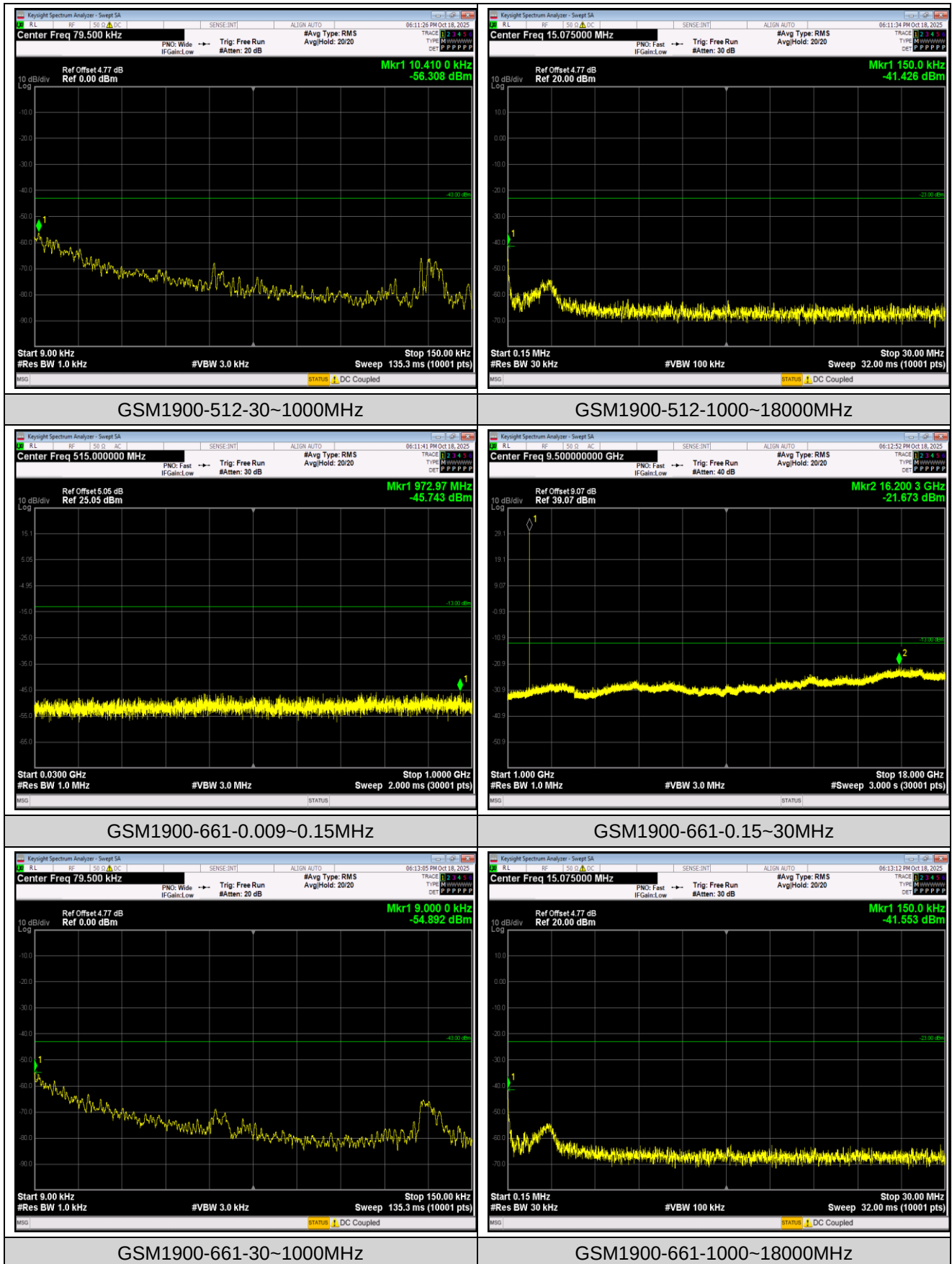
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.76	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-42.14	-13	PASS
GSM850	128	5	30~1000MHz	962.49	-44.99	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-27.66	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.9	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-43.76	-13	PASS
GSM850	190	5	30~1000MHz	998.38	-43.47	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-28	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-56.11	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.07	-13	PASS
GSM850	251	5	30~1000MHz	960.65	-44.34	-13	PASS
GSM850	251	5	1000~10000MHz	1697.2	-28.58	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.31	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-41.43	-23	PASS
GSM1900	512	0	30~1000MHz	972.97	-45.74	-13	PASS
GSM1900	512	0	1000~18000MHz	16200.27	-21.67	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.89	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-41.55	-23	PASS
GSM1900	661	0	30~1000MHz	800.41	-44.99	-13	PASS
GSM1900	661	0	1000~18000MHz	16978.3	-22.05	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-52.91	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-42.49	-23	PASS
GSM1900	810	0	30~1000MHz	823.82	-45.98	-13	PASS
GSM1900	810	0	1000~18000MHz	17036.1	-22.04	-13	PASS

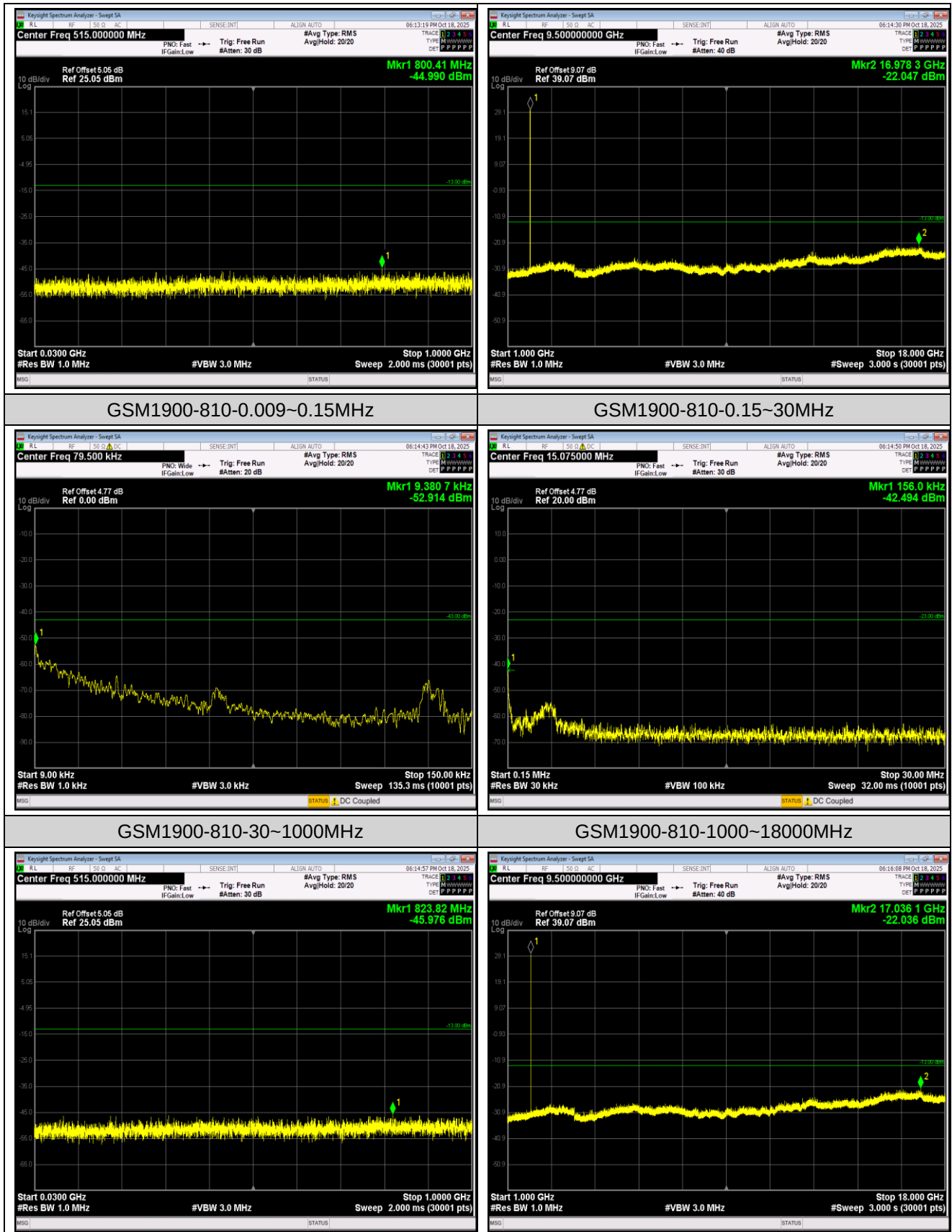
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.85	-30	11.82	0.014129	±2.5	Pass
	-20	13.56	0.016208		
	-10	12.88	0.015396		
	0	11.20	0.013388		
	10	10.69	0.012778		
	20	11.14	0.013316		
	30	10.17	0.012156		
	40	9.85	0.011774		
	50	10.01	0.011965		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	2.98	14.08	0.016830	±2.5	Pass
	3.85	11.14	0.013316		
	4.40	11.82	0.014129		
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		
3.85	-30	28.35	0.015080	Within authorized band for PCS 1900	Pass
	-20	26.12	0.013894		
	-10	19.34	0.010287		
	0	28.09	0.014941		
	10	22.31	0.011867		
	20	21.11	0.011229		
	30	20.66	0.010989		
	40	21.79	0.011590		
	50	27.38	0.014564		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	2.98	36.94	0.019649	Within authorized band for PCS 1900	Pass
	3.85	22.15	0.011782		
	4.40	23.57	0.012537		
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

