

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	33.00	24.86	38.45	PASS
GSM850	190	5	33.22	25.08	38.45	PASS
GSM850	251	5	33.22	25.08	38.45	PASS
GSM1900	512	0	29.12	26.74	33.00	PASS
GSM1900	661	0	29.38	27	33.00	PASS
GSM1900	810	0	28.99	26.61	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	2.64	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

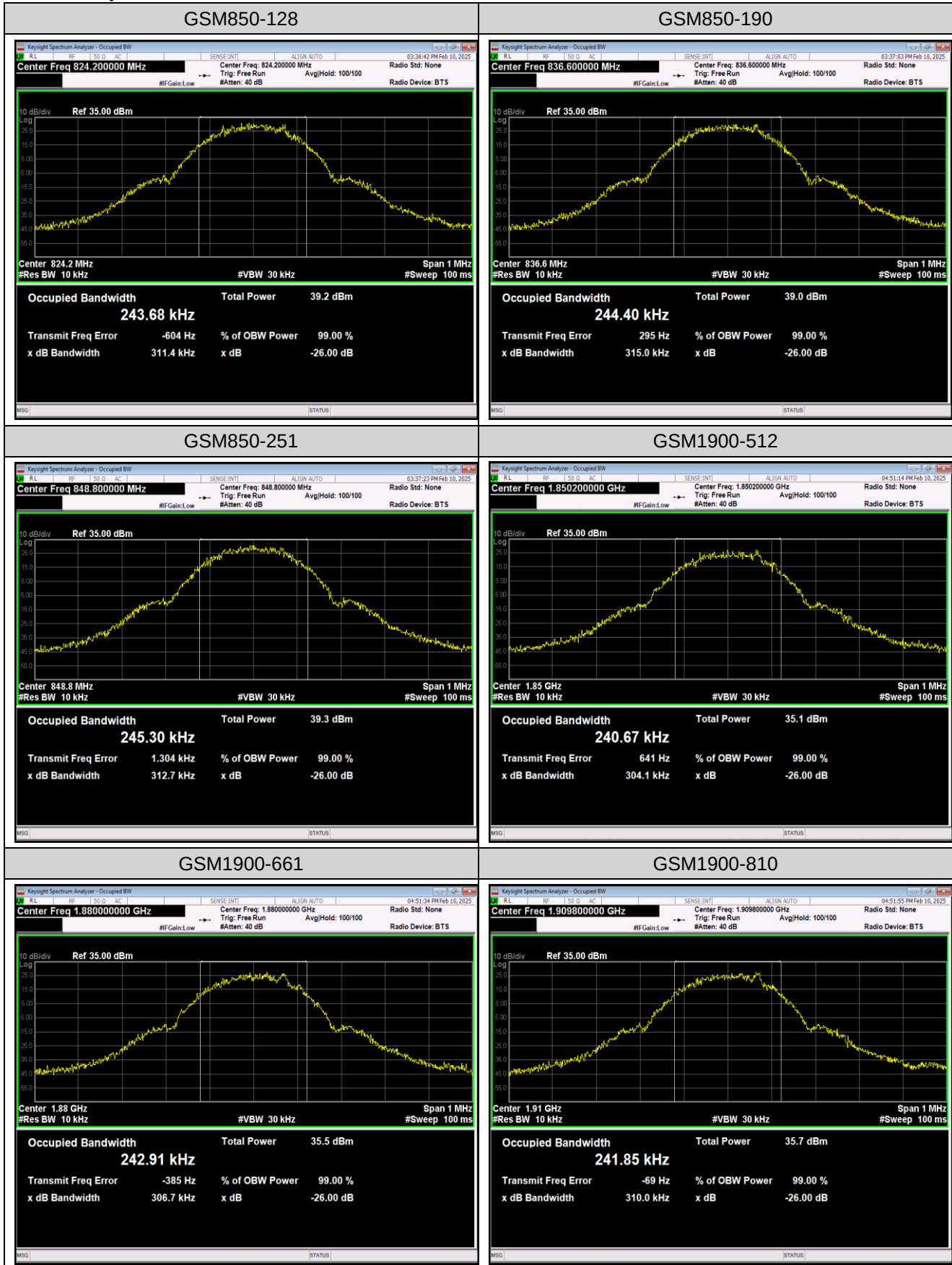


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24368	0.3114	---	PASS
GSM850	190	5	0.24440	0.3150	---	PASS
GSM850	251	5	0.24530	0.3127	---	PASS
GSM1900	512	0	0.24067	0.3041	---	PASS
GSM1900	661	0	0.24291	0.3067	---	PASS
GSM1900	810	0	0.24185	0.3100	---	PASS

Test Graphs

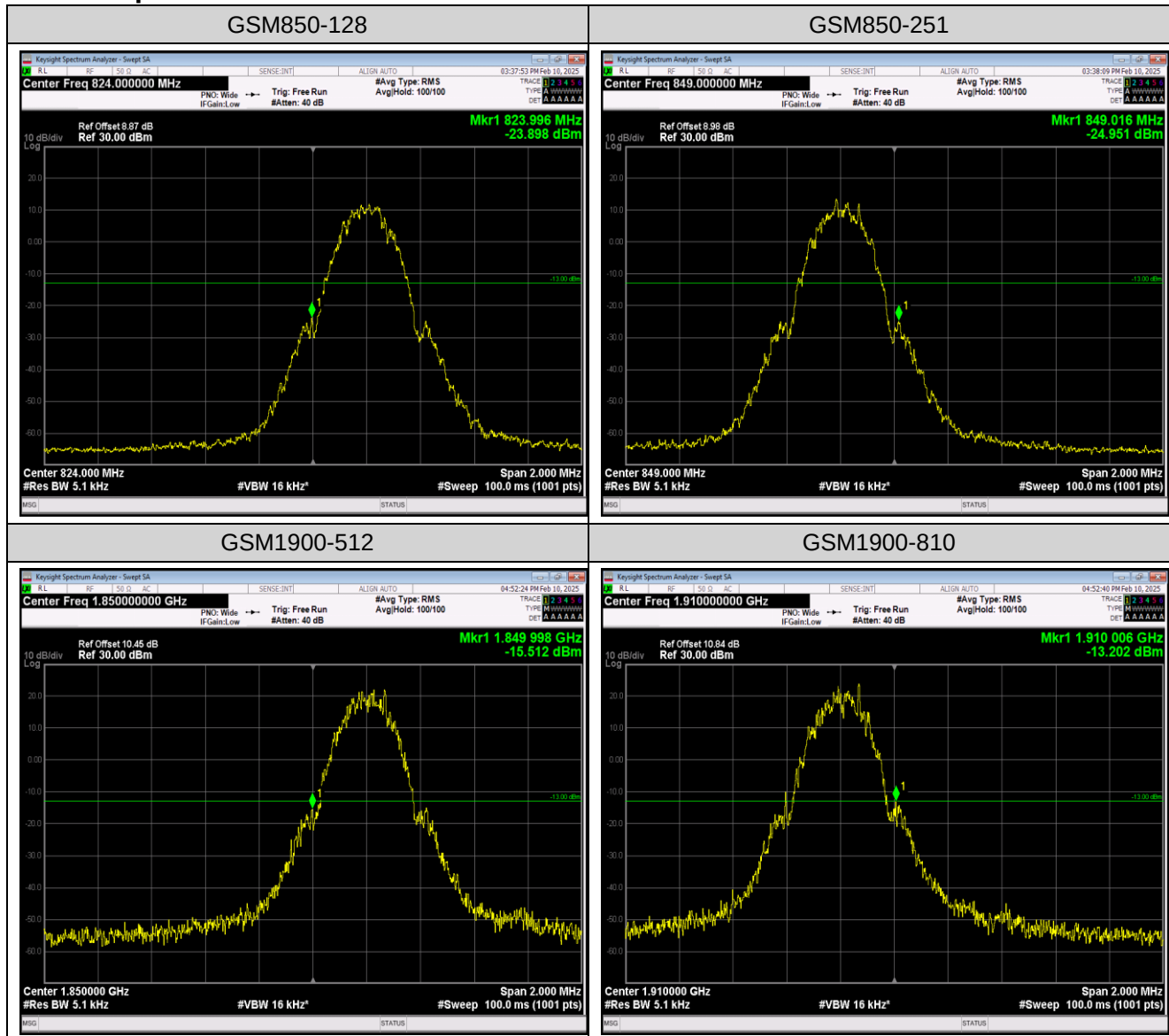


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.90	-13	PASS
GSM850	251	5	849.02	-24.95	-13	PASS
GSM1900	512	0	1850.00	-15.51	-13	PASS
GSM1900	810	0	1910.01	-13.20	-13	PASS

Test Graphs



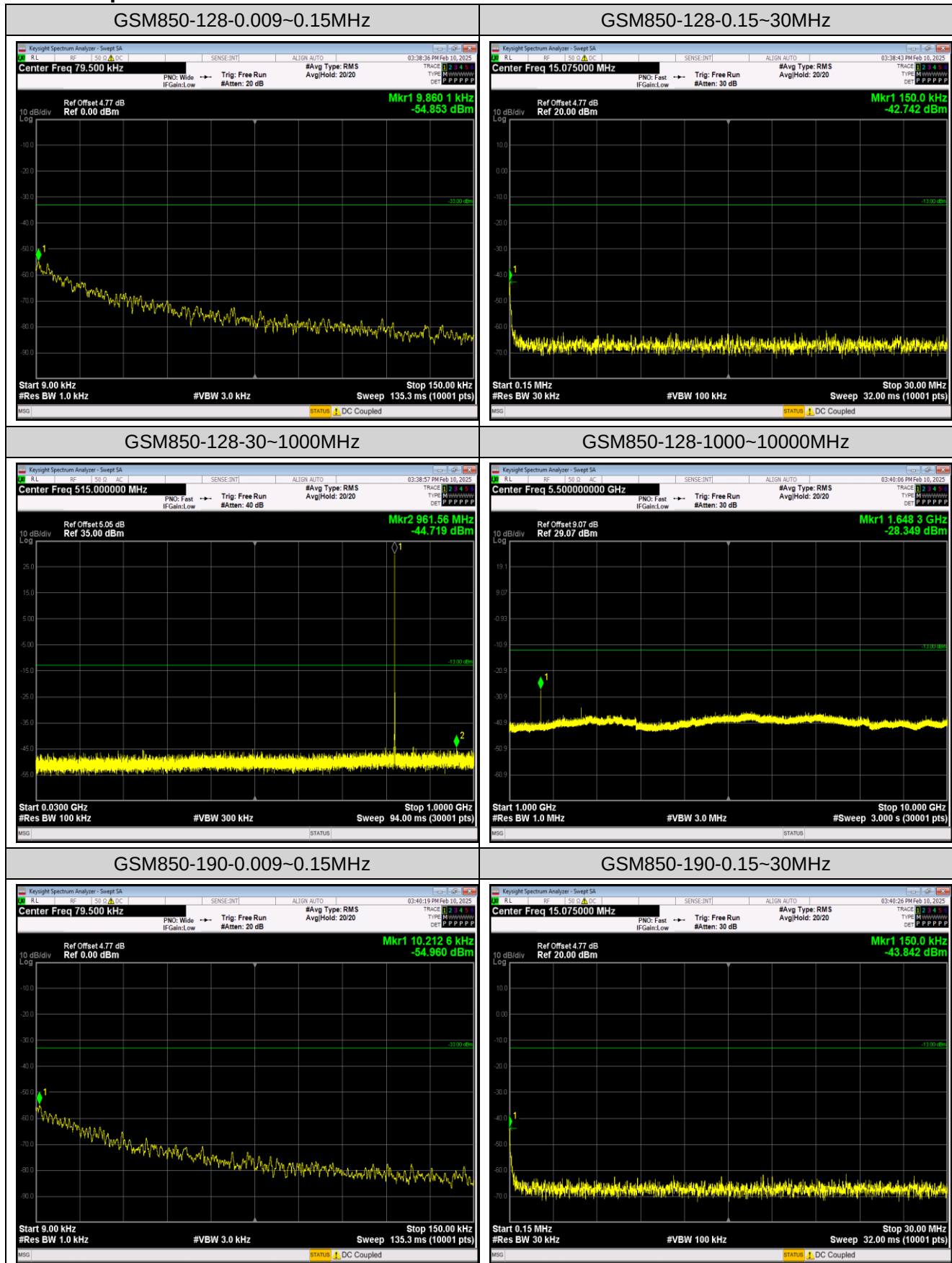
Appendix E: Conducted Spurious Emission

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	-54.85	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-42.74	-13	PASS
GSM850	128	5	30~1000MHz	961.56	-44.72	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-28.35	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.96	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-43.84	-13	PASS
GSM850	190	5	30~1000MHz	379.39	-44.85	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-29.82	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-56.06	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-41.09	-13	PASS
GSM850	251	5	30~1000MHz	631.95	-44.95	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-30.17	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.98	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-43.43	-23	PASS
GSM1900	512	0	30~1000MHz	950.66	-45.4	-13	PASS
GSM1900	512	0	1000~18000MHz	16885.93	-21.82	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.06	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-43.46	-23	PASS
GSM1900	661	0	30~1000MHz	920.62	-45.25	-13	PASS
GSM1900	661	0	1000~18000MHz	16968.67	-21.67	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.55	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.55	-23	PASS
GSM1900	810	0	30~1000MHz	896.44	-44.94	-13	PASS
GSM1900	810	0	1000~18000MHz	17000.4	-22.16	-13	PASS

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

Test Graphs

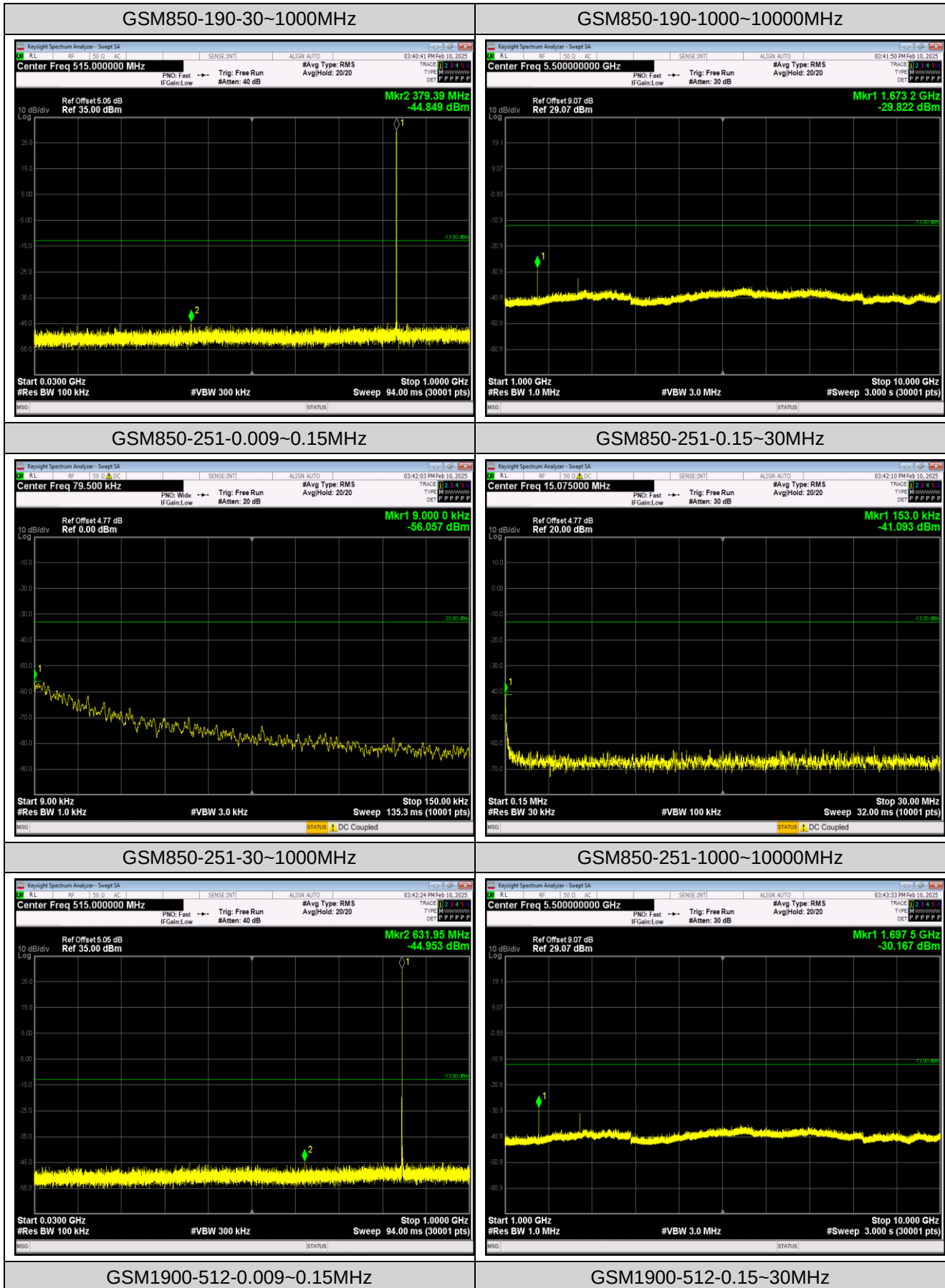


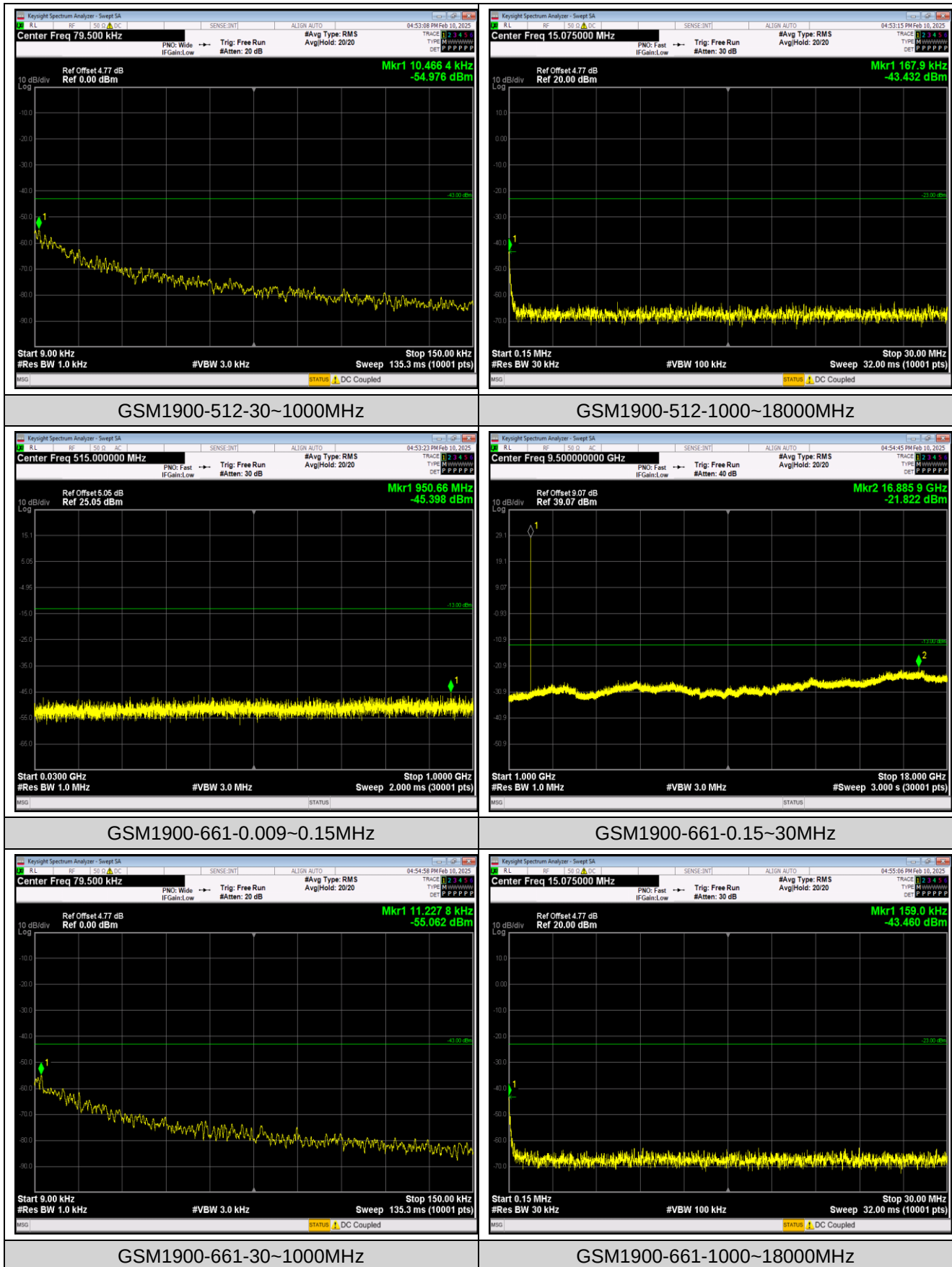
JianYan Testing Group Shenzhen Co., Ltd.

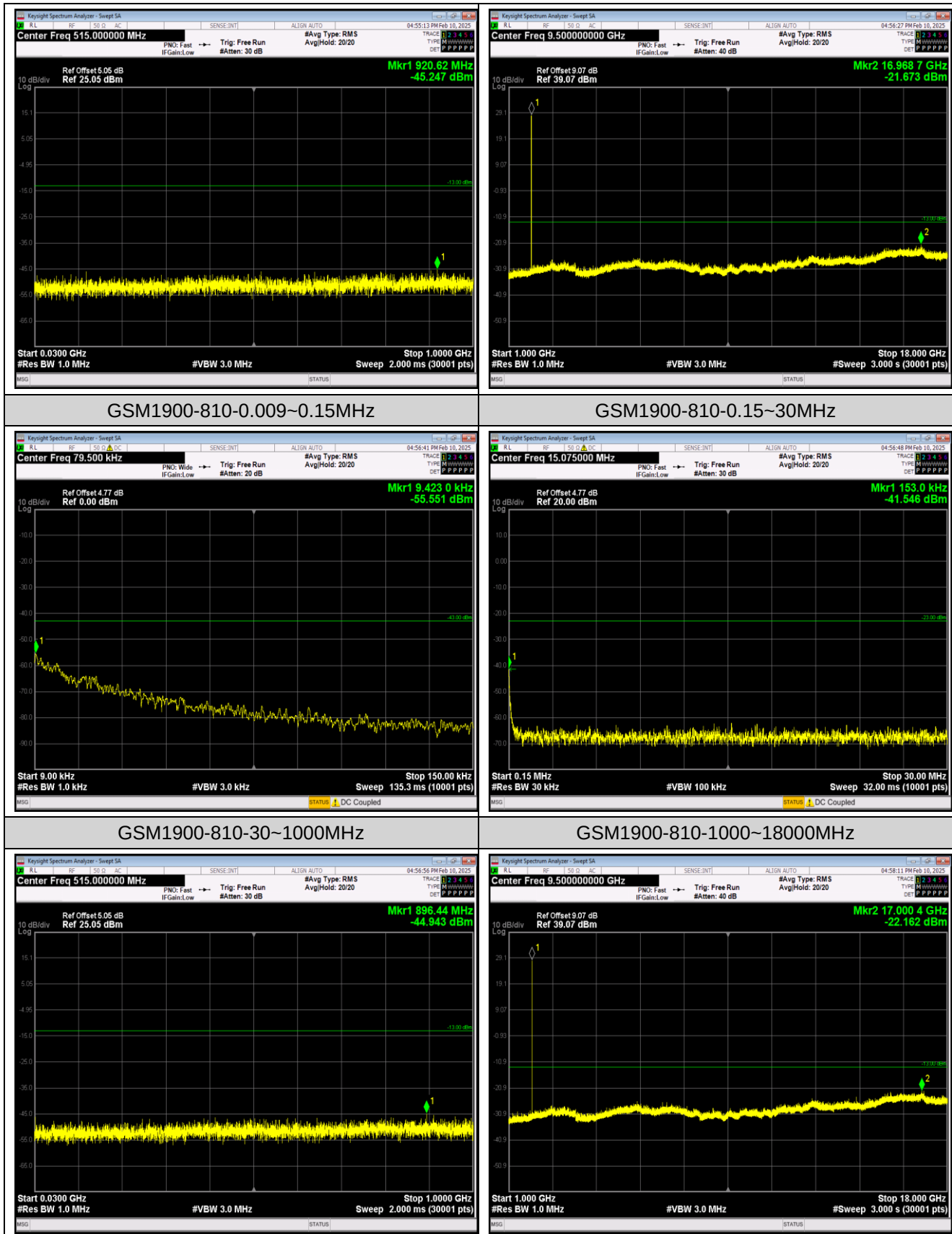
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Appendix F: Frequency Stability

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	5.52	0.006598	±2.5	Pass
	-20	5.17	0.006180		
	-10	-4.55	-0.005439		
	0	0.55	0.000657		
	10	1.58	0.001889		
	20	-4.36	-0.005212		
	30	1.52	0.001817		
	40	1.74	0.002080		
	50	1.87	0.002235		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.49	0.001781	±2.5	Pass
	3.85	-1.32	-0.001578		
	4.40	2.52	0.003012		
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		
3.85	-30	6.84	0.003638	Within authorized band for PCS 1900	Pass
	-20	1.94	0.001032		
	-10	-1.42	-0.000755		
	0	0.16	0.000085		
	10	2.23	0.001186		
	20	6.04	0.003213		
	30	9.75	0.005186		
	40	-4.13	-0.002197		
	50	7.17	0.003814		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	9.78	0.005202	Within authorized band for PCS 1900	Pass
	3.85	5.78	0.003074		
	4.40	8.36	0.004447		
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

