

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	33.74	31.16	38.45	PASS
GSM850	190	5	33.76	31.18	38.45	PASS
GSM850	251	5	33.42	30.84	38.45	PASS
GSM1900	512	0	31.30	30.94	33.00	PASS
GSM1900	661	0	31.42	31.06	33.00	PASS
GSM1900	810	0	31.55	31.19	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.73	31.15	38.45	PASS
GPRS850	128	5	2	31.59	29.01	38.45	PASS
GPRS850	128	5	3	29.70	27.12	38.45	PASS
GPRS850	128	5	4	27.48	24.9	38.45	PASS
GPRS850	190	5	1	33.74	31.16	38.45	PASS
GPRS850	190	5	2	31.63	29.05	38.45	PASS
GPRS850	190	5	3	29.74	27.16	38.45	PASS
GPRS850	190	5	4	27.55	24.97	38.45	PASS
GPRS850	251	5	1	33.39	30.81	38.45	PASS
GPRS850	251	5	2	31.31	28.73	38.45	PASS
GPRS850	251	5	3	29.43	26.85	38.45	PASS
GPRS850	251	5	4	27.27	24.69	38.45	PASS
GPRS1900	512	0	1	31.29	30.93	33.00	PASS
GPRS1900	512	0	2	29.14	28.78	33.00	PASS
GPRS1900	512	0	3	27.55	27.19	33.00	PASS
GPRS1900	512	0	4	25.60	25.24	33.00	PASS
GPRS1900	661	0	1	31.46	31.1	33.00	PASS
GPRS1900	661	0	2	29.22	28.86	33.00	PASS
GPRS1900	661	0	3	27.63	27.27	33.00	PASS
GPRS1900	661	0	4	25.67	25.31	33.00	PASS
GPRS1900	810	0	1	31.58	31.22	33.00	PASS
GPRS1900	810	0	2	29.29	28.93	33.00	PASS
GPRS1900	810	0	3	27.68	27.32	33.00	PASS
GPRS1900	810	0	4	25.71	25.35	33.00	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)
ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For GSM850)

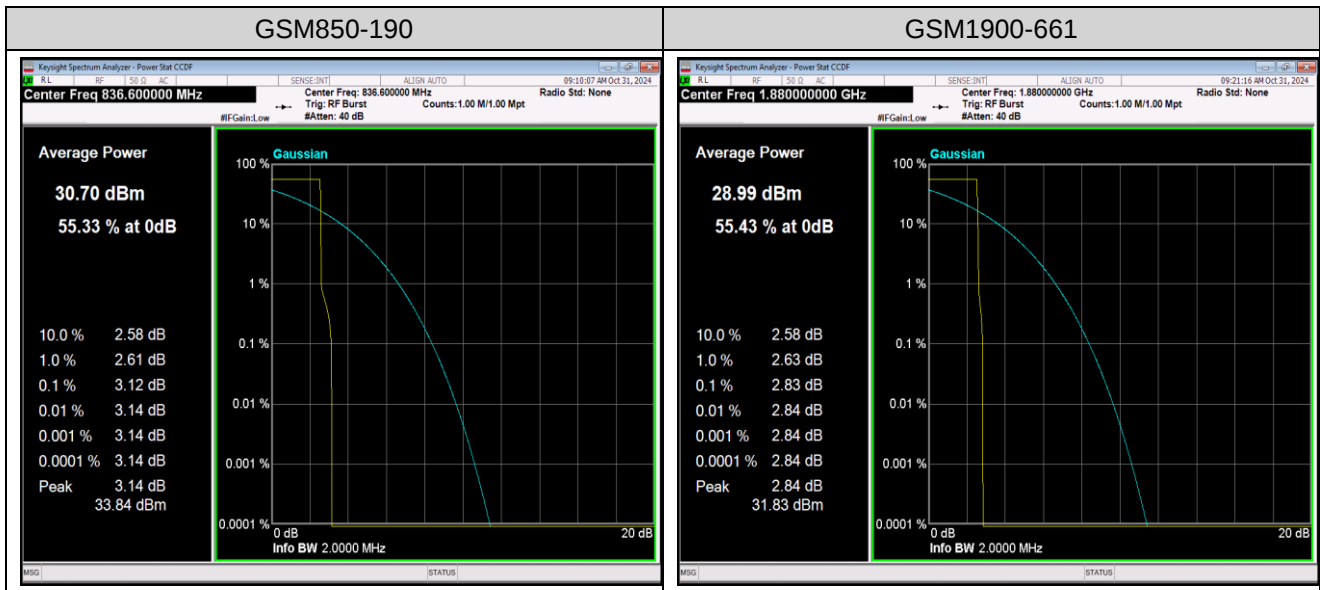
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	3.12	13	PASS
GSM1900	661	0	2.83	13	PASS

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

Test Graphs

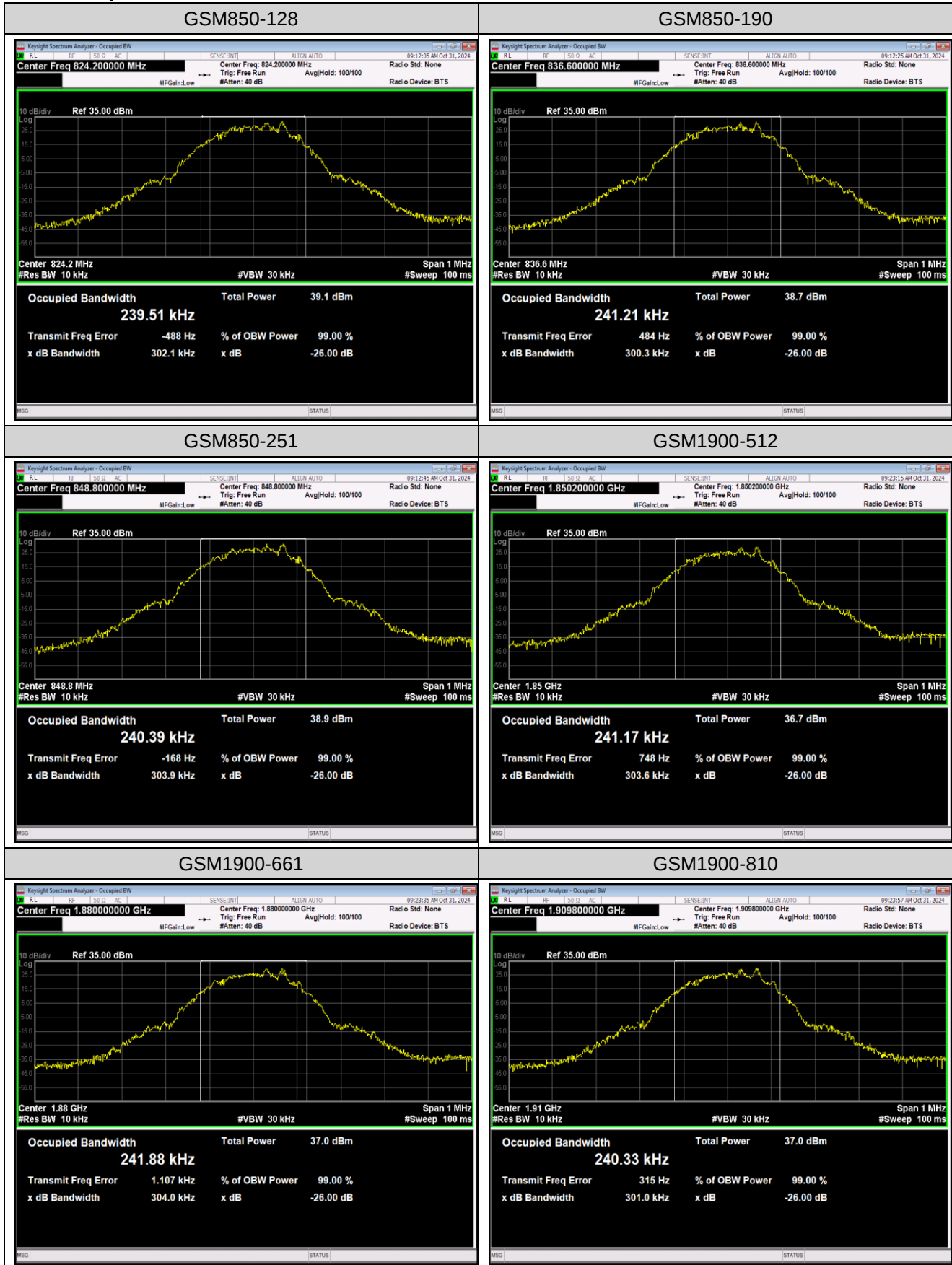


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.23951	0.3021	---	PASS
GSM850	190	5	0.24121	0.3003	---	PASS
GSM850	251	5	0.24039	0.3039	---	PASS
GSM1900	512	0	0.24117	0.3036	---	PASS
GSM1900	661	0	0.24188	0.3040	---	PASS
GSM1900	810	0	0.24033	0.3010	---	PASS

Test Graphs

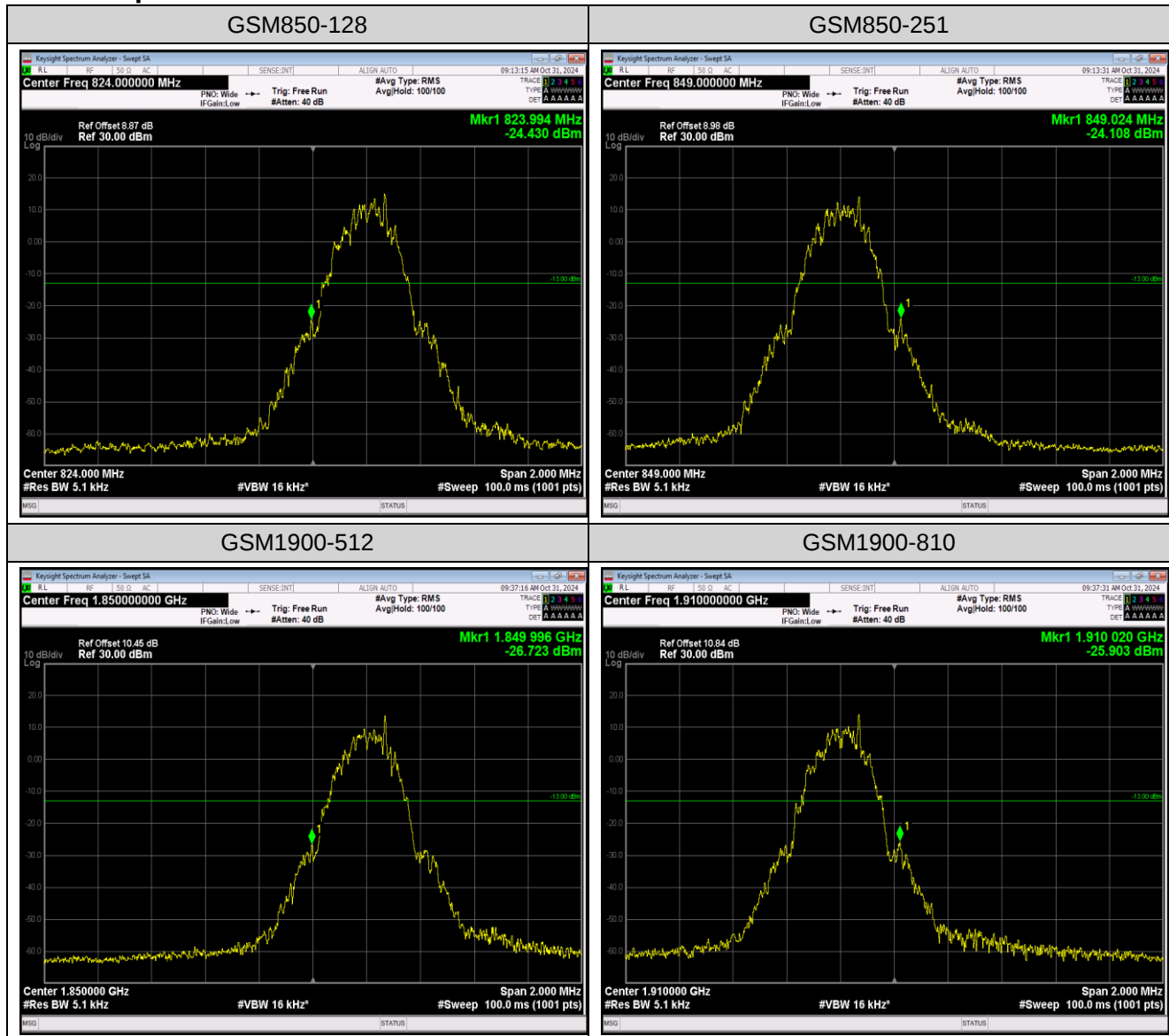


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.99	-24.43	-13	PASS
GSM850	251	5	849.02	-24.11	-13	PASS
GSM1900	512	0	1850.00	-26.72	-13	PASS
GSM1900	810	0	1910.02	-25.90	-13	PASS

Test Graphs



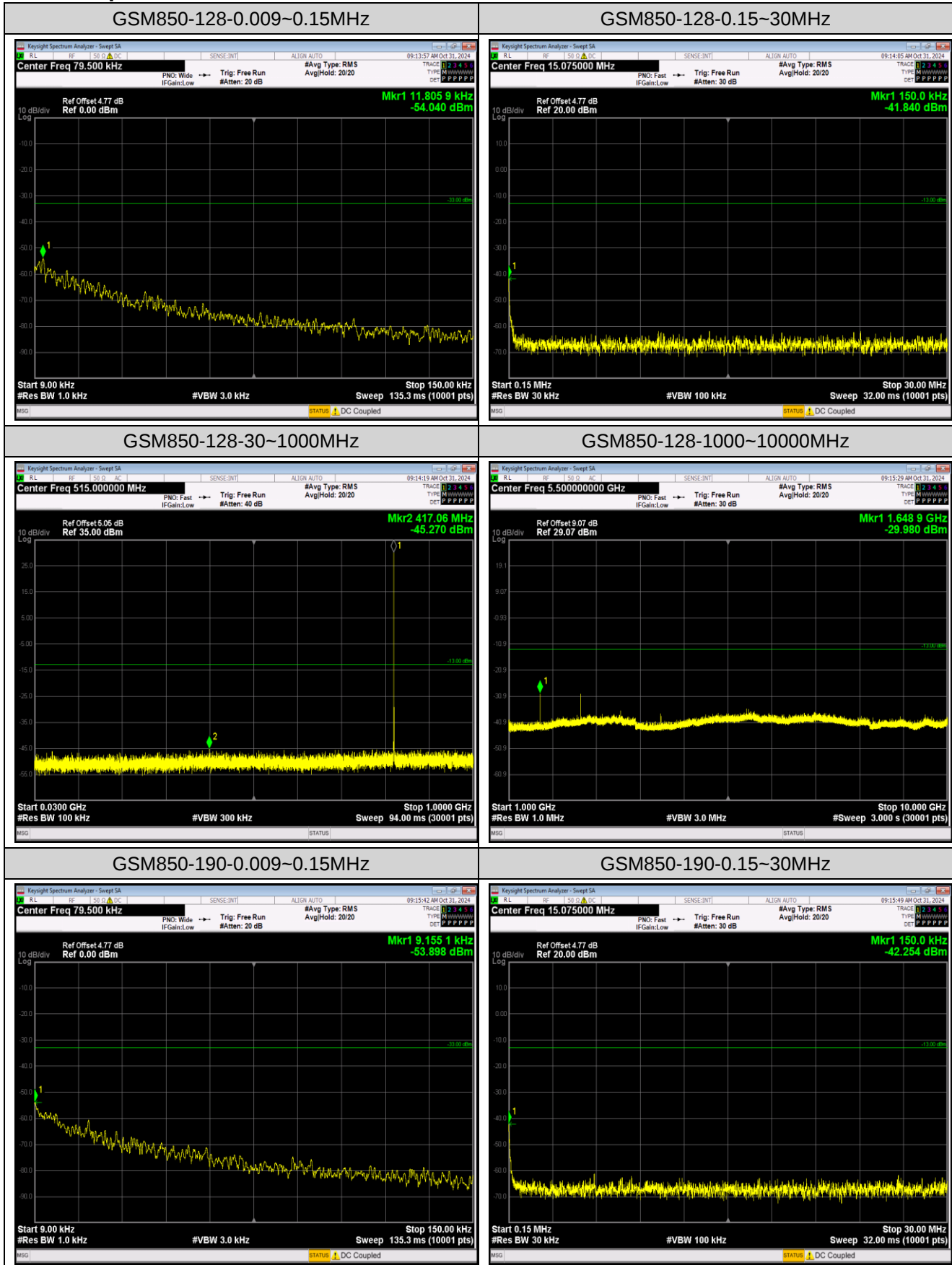
Appendix E: Conducted Spurious Emission

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	-54.04	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.84	-13	PASS
GSM850	128	5	30~1000MHz	417.06	-45.27	-13	PASS
GSM850	128	5	1000~10000MHz	1648.9	-29.98	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-53.9	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.25	-13	PASS
GSM850	190	5	30~1000MHz	428.28	-45	-13	PASS
GSM850	190	5	1000~10000MHz	1672.9	-29.92	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.79	-33	PASS
GSM850	251	5	0.15~30MHz	0.17	-42.59	-13	PASS
GSM850	251	5	30~1000MHz	741.3	-44.78	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-29.64	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.7	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-45.09	-23	PASS
GSM1900	512	0	30~1000MHz	937.18	-44.87	-13	PASS
GSM1900	512	0	1000~18000MHz	15787.17	-22.25	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.27	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-41.61	-23	PASS
GSM1900	661	0	30~1000MHz	744.5	-45.41	-13	PASS
GSM1900	661	0	1000~18000MHz	16162.87	-22.45	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.3	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43	-23	PASS
GSM1900	810	0	30~1000MHz	812.47	-45.49	-13	PASS
GSM1900	810	0	1000~18000MHz	17002.1	-21.93	-13	PASS

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

Test Graphs

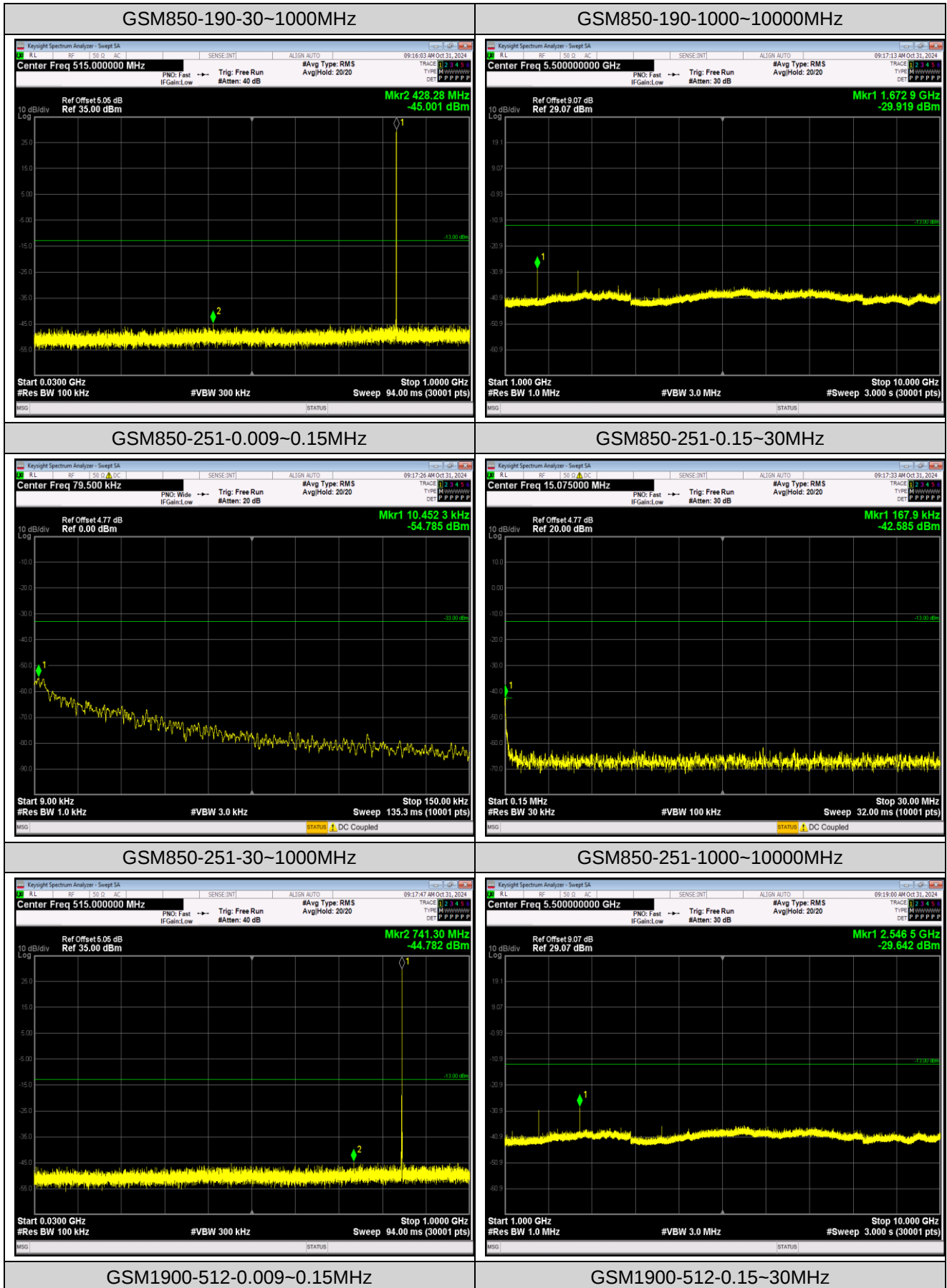


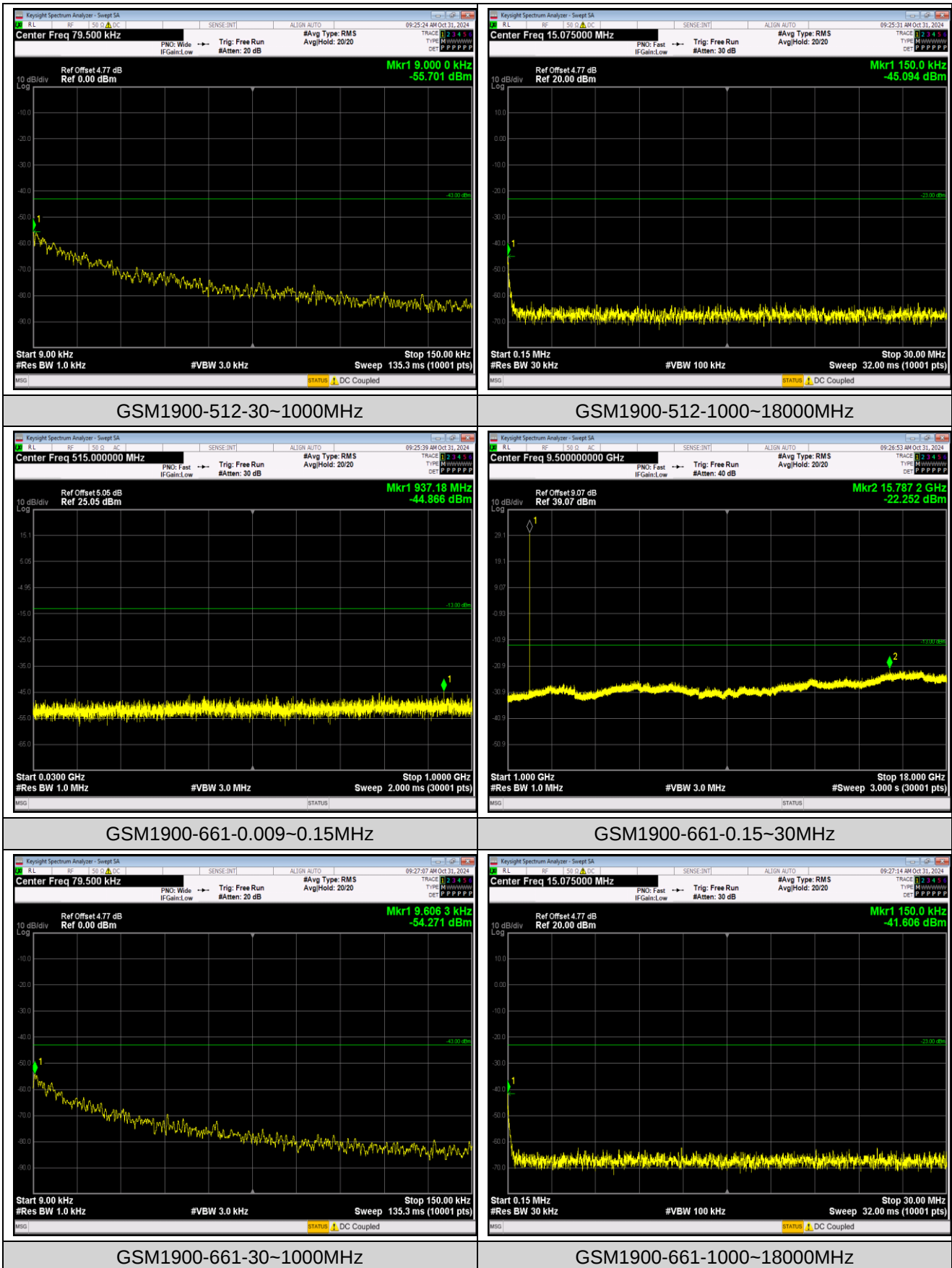
JianYan Testing Group Shenzhen Co., Ltd.

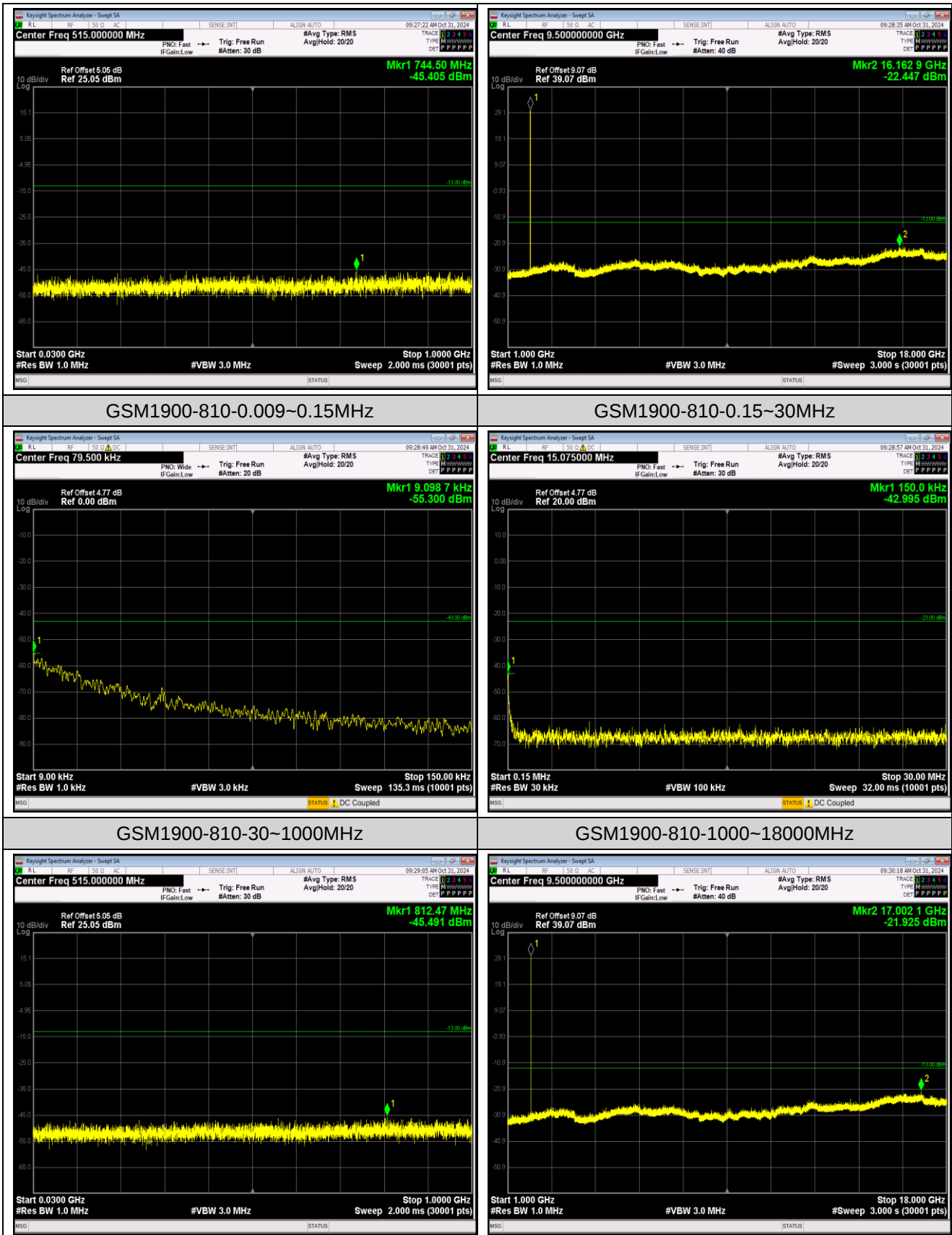
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	6.75	0.008068	±2.5	Pass
	-20	-0.26	-0.000311		
	-10	-1.45	-0.001733		
	0	-0.87	-0.001040		
	10	7.17	0.008570		
	20	1.26	0.001506		
	30	0.06	0.000072		
	40	7.68	0.009180		
	50	9.23	0.011033		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	2.75	-2.94	-0.003514	±2.5	Pass
	3.70	8.72	0.010423		
	4.20	7.01	0.008379		
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	10.30	0.005479	Within authorized band for PCS 1900	Pass
	-20	1.97	0.001048		
	-10	11.33	0.006027		
	0	1.39	0.000739		
	10	-5.62	-0.002989		
	20	1.19	0.000633		
	30	-2.71	-0.001441		
	40	-3.45	-0.001835		
	50	3.33	0.001771		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	2.75	12.20	0.006489	Within authorized band for PCS 1900	Pass
	3.70	1.61	0.000856		
	4.20	9.17	0.004878		
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

