

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	31.64	27.79	38.45	PASS
GSM850	190	5	31.78	27.93	38.45	PASS
GSM850	251	5	31.62	27.77	38.45	PASS
GSM1900	512	0	28.71	29.01	33.00	PASS
GSM1900	661	0	29.32	29.62	33.00	PASS
GSM1900	810	0	29.95	30.25	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	31.59	27.74	38.45	PASS
GPRS850	128	5	2	30.67	26.82	38.45	PASS
GPRS850	128	5	3	28.68	24.83	38.45	PASS
GPRS850	128	5	4	27.83	23.98	38.45	PASS
GPRS850	190	5	1	31.72	27.87	38.45	PASS
GPRS850	190	5	2	30.78	26.93	38.45	PASS
GPRS850	190	5	3	28.77	24.92	38.45	PASS
GPRS850	190	5	4	27.91	24.06	38.45	PASS
GPRS850	251	5	1	31.57	27.72	38.45	PASS
GPRS850	251	5	2	30.50	26.65	38.45	PASS
GPRS850	251	5	3	28.42	24.57	38.45	PASS
GPRS850	251	5	4	27.52	23.67	38.45	PASS
GPRS1900	512	0	1	28.76	29.06	33.00	PASS
GPRS1900	512	0	2	27.69	27.99	33.00	PASS
GPRS1900	512	0	3	25.57	25.87	33.00	PASS
GPRS1900	512	0	4	24.39	24.69	33.00	PASS
GPRS1900	661	0	1	29.35	29.65	33.00	PASS
GPRS1900	661	0	2	28.31	28.61	33.00	PASS
GPRS1900	661	0	3	26.19	26.49	33.00	PASS
GPRS1900	661	0	4	25.00	25.3	33.00	PASS
GPRS1900	810	0	1	29.98	30.28	33.00	PASS
GPRS1900	810	0	2	29.01	29.31	33.00	PASS
GPRS1900	810	0	3	27.00	27.3	33.00	PASS
GPRS1900	810	0	4	25.84	26.14	33.00	PASS

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

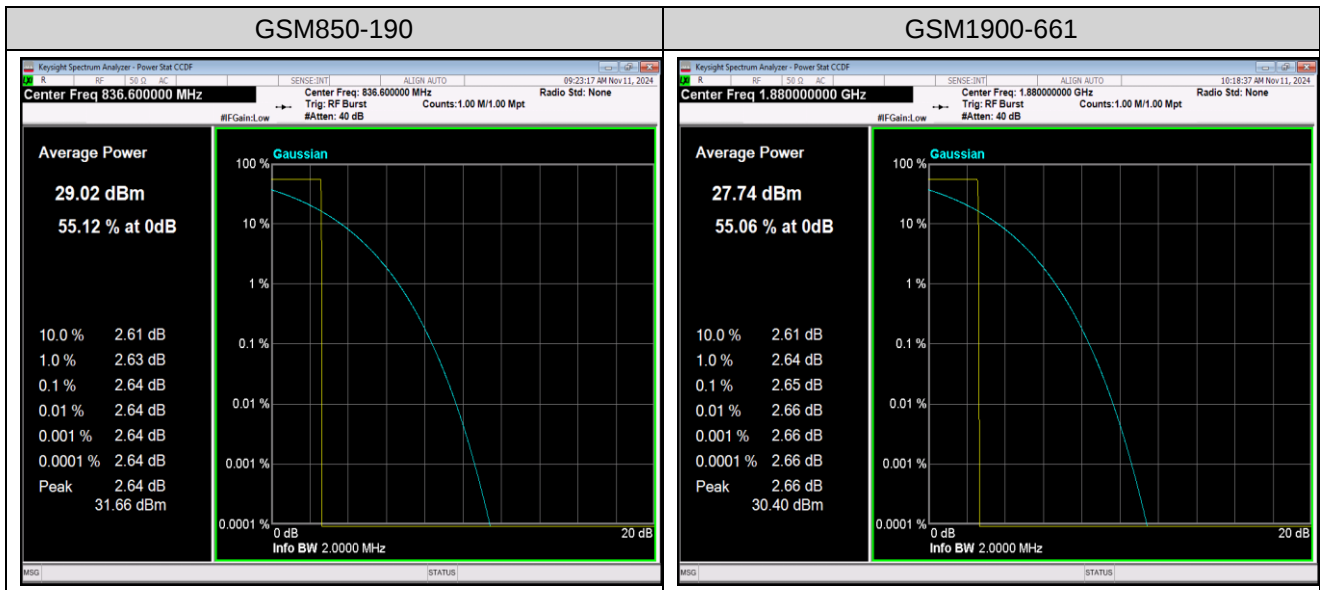
Appendix B: Peak-to-Average Ratio(CCDF)

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

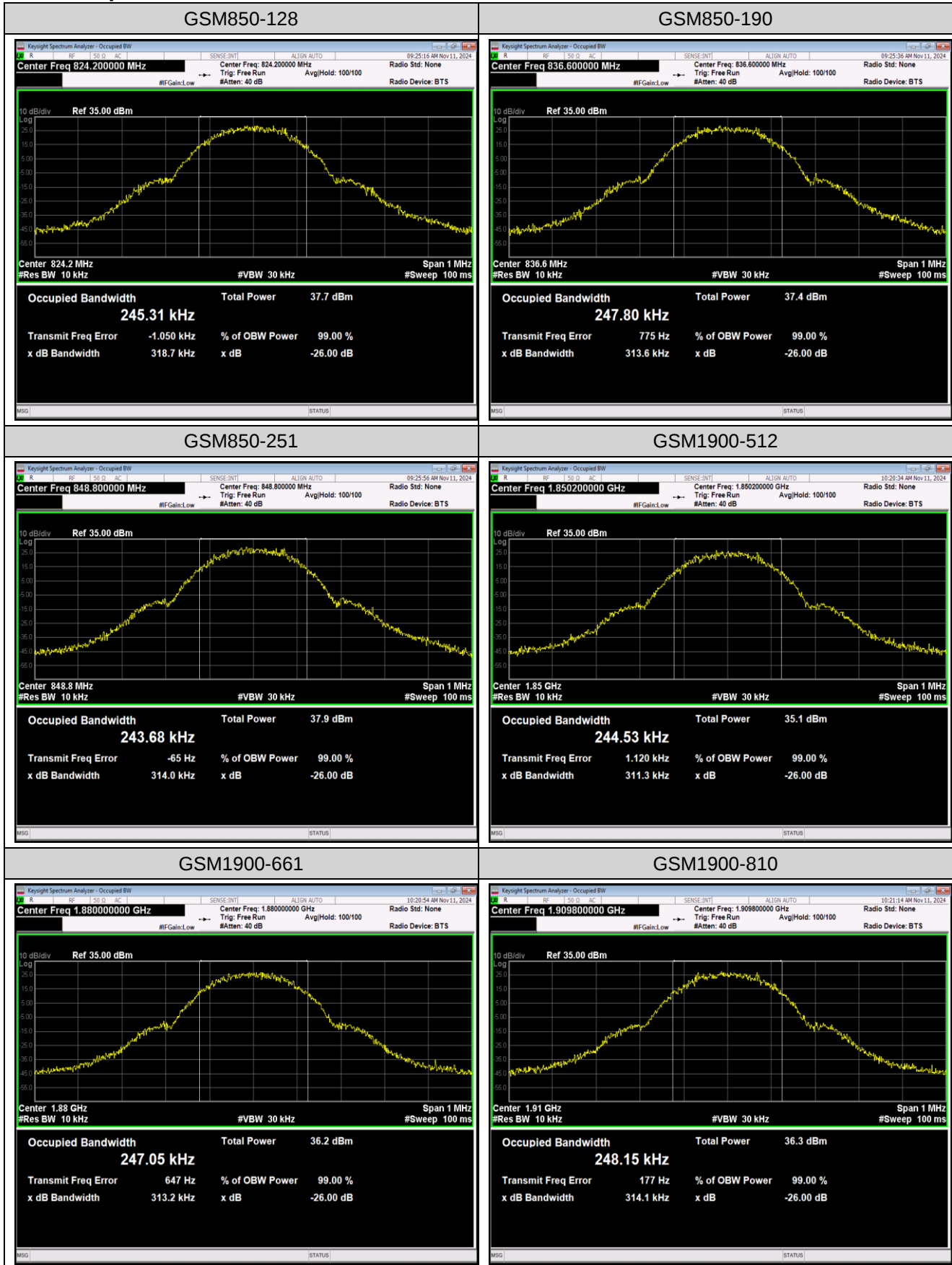


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24531	0.3187	---	PASS
GSM850	190	5	0.24780	0.3136	---	PASS
GSM850	251	5	0.24368	0.3140	---	PASS
GSM1900	512	0	0.24453	0.3113	---	PASS
GSM1900	661	0	0.24705	0.3132	---	PASS
GSM1900	810	0	0.24815	0.3141	---	PASS

Test Graphs

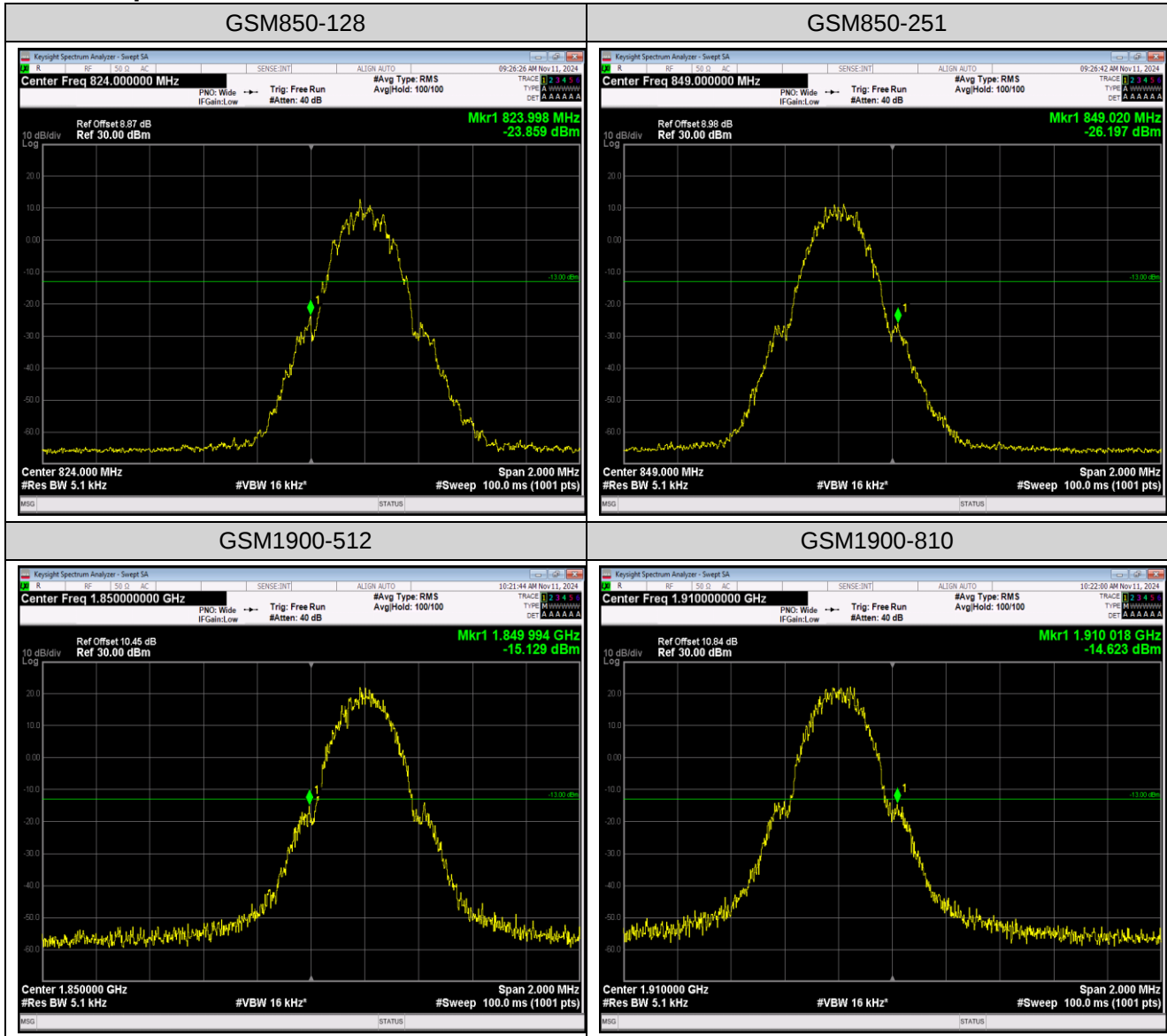


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.86	-13	PASS
GSM850	251	5	849.02	-26.20	-13	PASS
GSM1900	512	0	1849.99	-15.13	-13	PASS
GSM1900	810	0	1910.02	-14.62	-13	PASS

Test Graphs



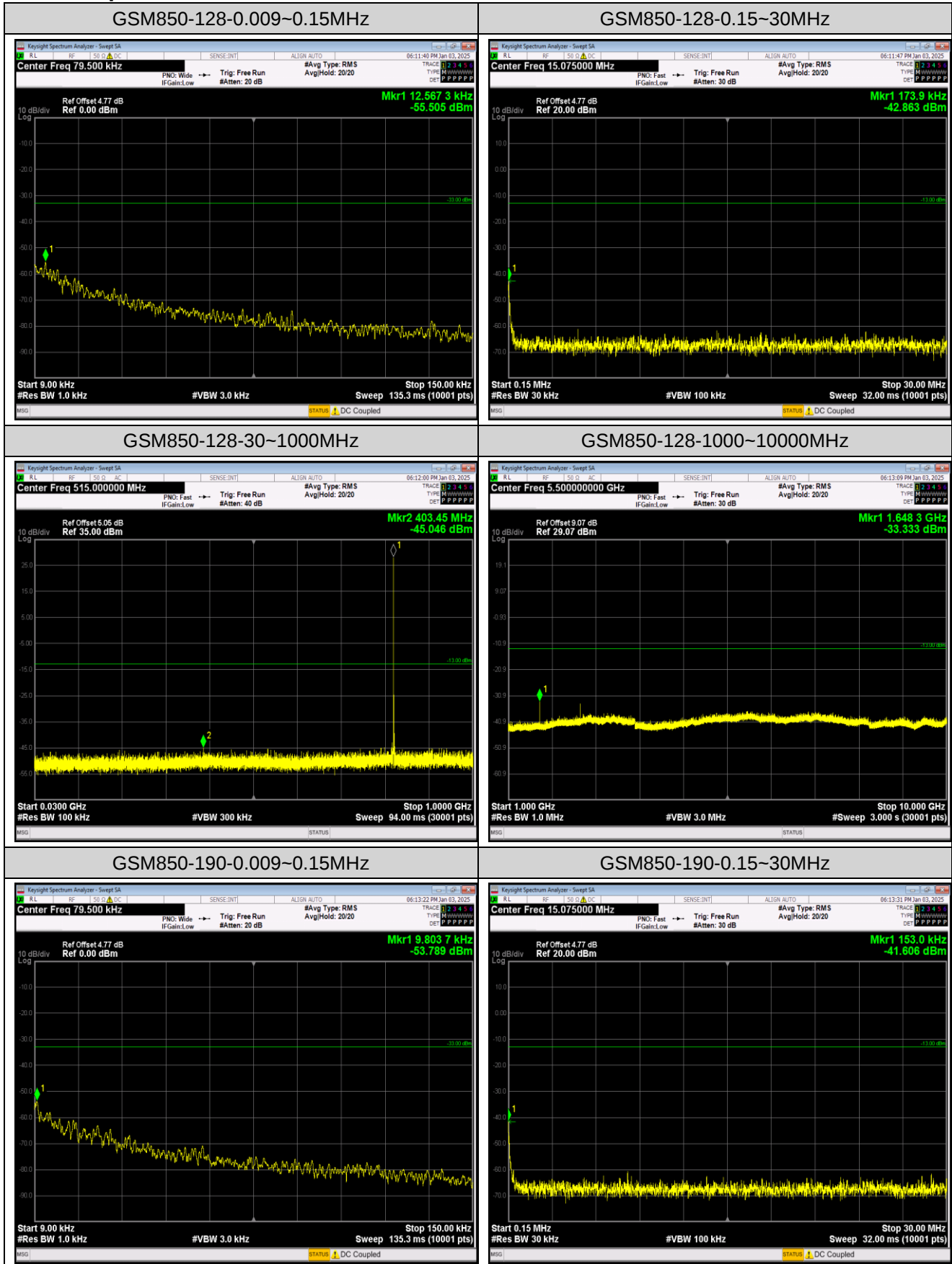
Appendix E: Conducted Spurious Emission

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	-55.51	-33	PASS
GSM850	128	5	0.15~30MHz	0.17	-42.86	-13	PASS
GSM850	128	5	30~1000MHz	403.45	-45.05	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-33.33	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-53.79	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-41.61	-13	PASS
GSM850	190	5	30~1000MHz	965.05	-44.97	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-33.33	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-56.52	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-41.89	-13	PASS
GSM850	251	5	30~1000MHz	525.57	-44.58	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-33.94	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.07	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-41.49	-23	PASS
GSM1900	512	0	30~1000MHz	924.02	-45.95	-13	PASS
GSM1900	512	0	1000~18000MHz	17061.03	-21.91	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.05	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.2	-23	PASS
GSM1900	661	0	30~1000MHz	990.07	-45.88	-13	PASS
GSM1900	661	0	1000~18000MHz	16989.63	-21.12	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.65	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.24	-23	PASS
GSM1900	810	0	30~1000MHz	877.23	-46.31	-13	PASS
GSM1900	810	0	1000~18000MHz	16980.57	-21.86	-13	PASS

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

Test Graphs

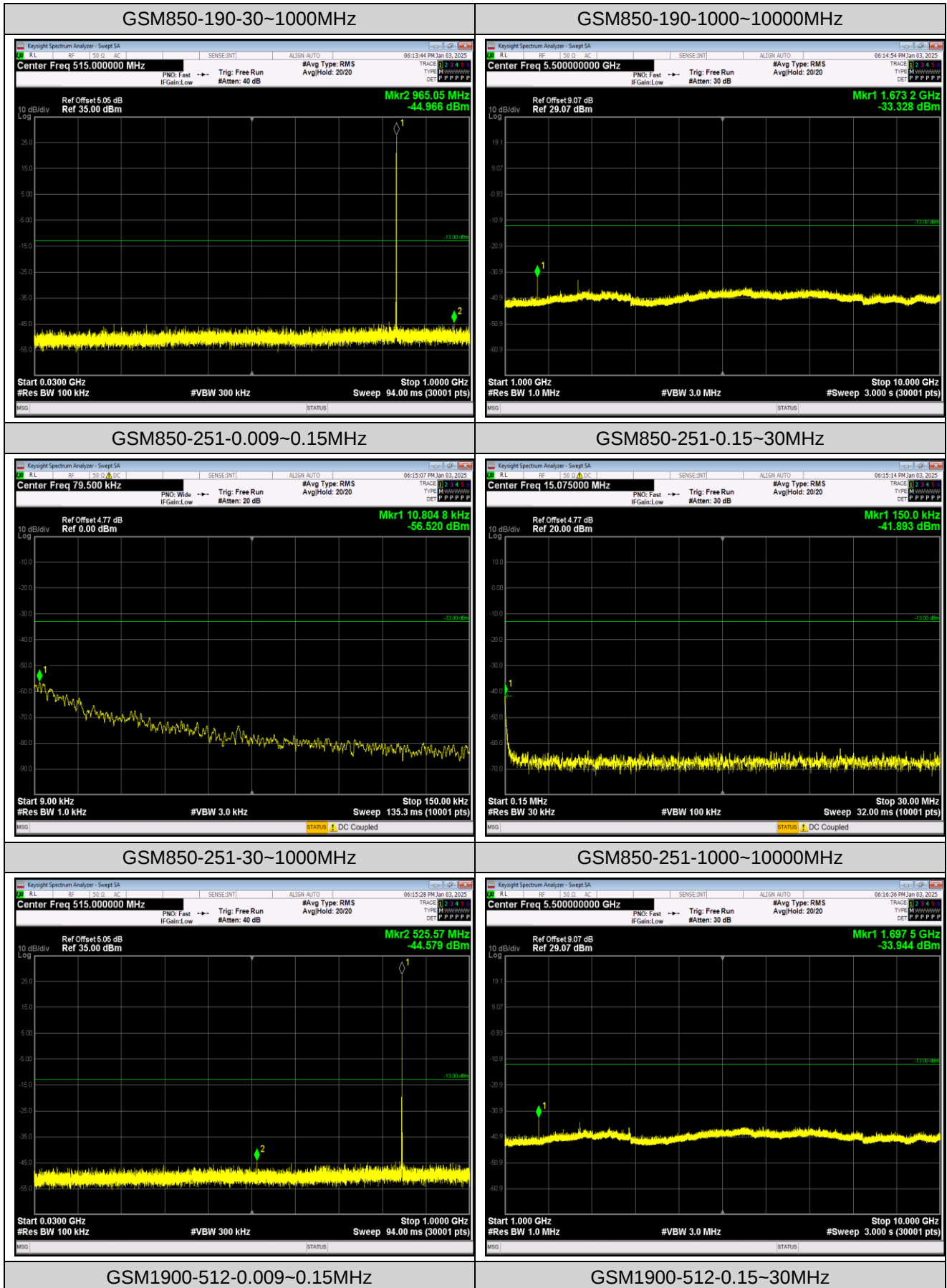


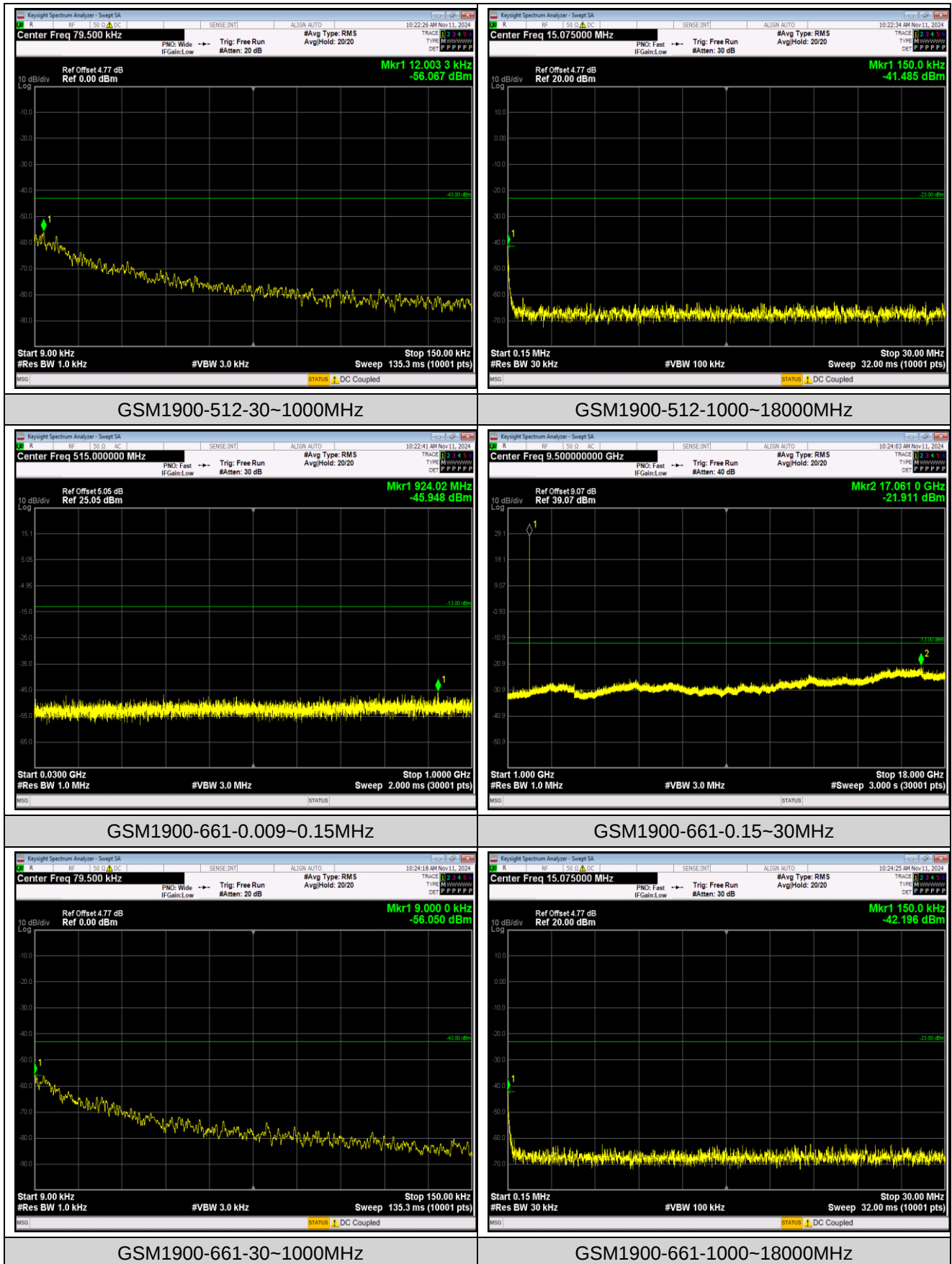
JianYan Testing Group Shenzhen Co., Ltd.

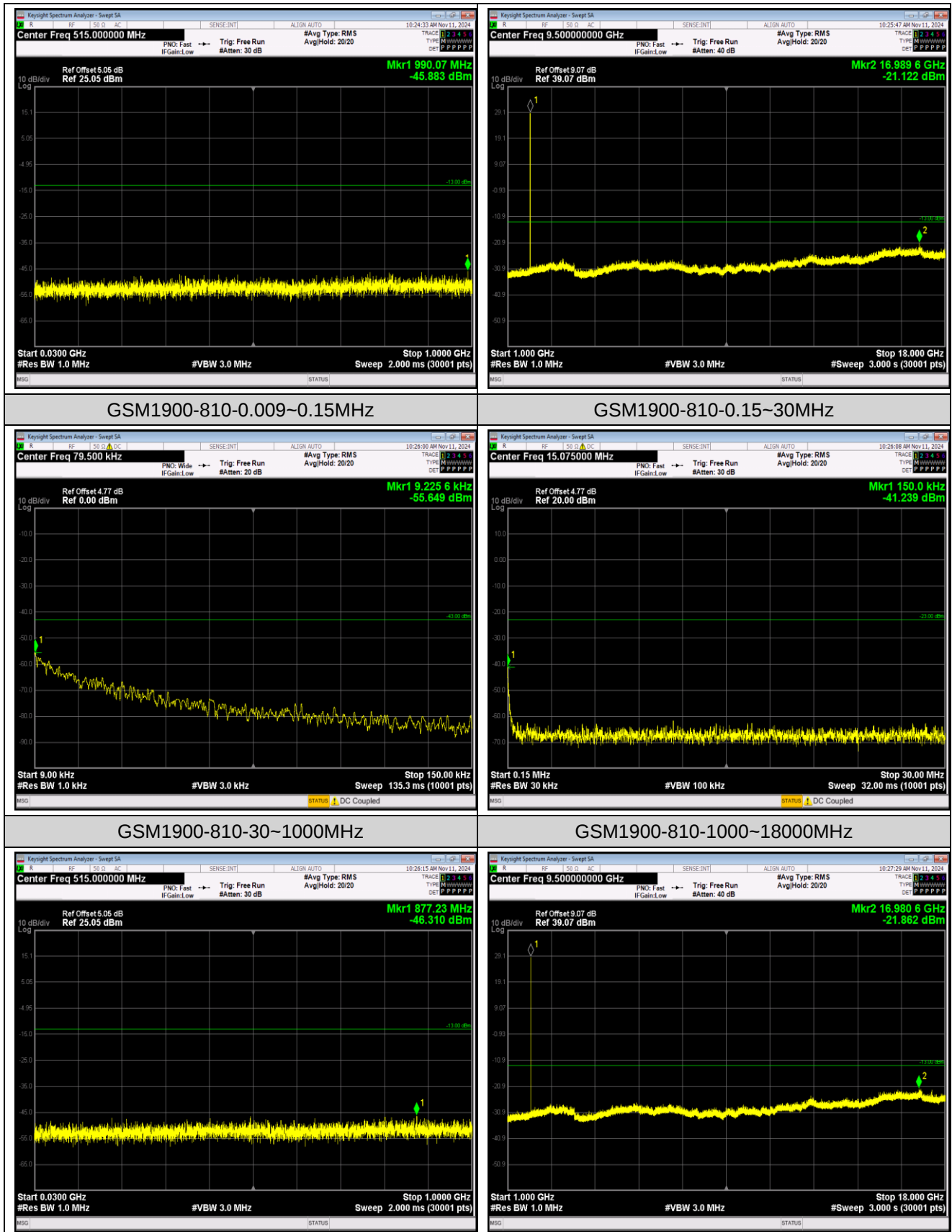
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.7	-30	-18.18	-0.021731	±2.5	Pass
	-20	-17.95	-0.021456		
	-10	-15.88	-0.018982		
	0	-21.73	-0.025974		
	10	-22.31	-0.026667		
	20	-19.82	-0.023691		
	30	-19.37	-0.023153		
	40	-18.56	-0.022185		
	50	-18.56	-0.022185		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.60	-18.50	-0.022113	±2.5	Pass
	3.70	-24.60	-0.029405		
	4.20	-17.66	-0.021109		
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		
3.7	-30	-52.24	-0.027787	Within authorized band for PCS 1900	Pass
	-20	-43.94	-0.023372		
	-10	-48.36	-0.025723		
	0	-46.85	-0.024920		
	10	-41.00	-0.021809		
	20	-44.52	-0.023681		
	30	-44.72	-0.023787		
	40	-43.17	-0.022963		
	50	-44.59	-0.023718		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.60	-50.50	-0.026862	Within authorized band for PCS 1900	Pass
	3.70	-53.27	-0.028335		
	4.20	-44.97	-0.023920		
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

