

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	33.54	31.78	38.45	PASS
GSM850	190	5	33.57	31.81	38.45	PASS
GSM850	251	5	33.33	31.57	38.45	PASS
GSM1900	512	0	29.71	30.49	33.00	PASS
GSM1900	661	0	30.57	31.35	33.00	PASS
GSM1900	810	0	30.54	31.32	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.54	31.78	38.45	PASS
GPRS850	128	5	2	31.09	29.33	38.45	PASS
GPRS850	128	5	3	29.15	27.39	38.45	PASS
GPRS850	128	5	4	26.92	25.16	38.45	PASS
GPRS850	190	5	1	33.55	31.79	38.45	PASS
GPRS850	190	5	2	31.19	29.43	38.45	PASS
GPRS850	190	5	3	29.27	27.51	38.45	PASS
GPRS850	190	5	4	27.09	25.33	38.45	PASS
GPRS850	251	5	1	33.31	31.55	38.45	PASS
GPRS850	251	5	2	30.94	29.18	38.45	PASS
GPRS850	251	5	3	29.01	27.25	38.45	PASS
GPRS850	251	5	4	26.80	25.04	38.45	PASS
GPRS1900	512	0	1	30.30	31.08	33.00	PASS
GPRS1900	512	0	2	27.30	28.08	33.00	PASS
GPRS1900	512	0	3	25.59	26.37	33.00	PASS
GPRS1900	512	0	4	23.52	24.3	33.00	PASS
GPRS1900	661	0	1	30.63	31.41	33.00	PASS
GPRS1900	661	0	2	27.25	28.03	33.00	PASS
GPRS1900	661	0	3	25.55	26.33	33.00	PASS
GPRS1900	661	0	4	23.42	24.2	33.00	PASS
GPRS1900	810	0	1	30.59	31.37	33.00	PASS
GPRS1900	810	0	2	27.20	27.98	33.00	PASS
GPRS1900	810	0	3	25.49	26.27	33.00	PASS
GPRS1900	810	0	4	23.36	24.14	33.00	PASS

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

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

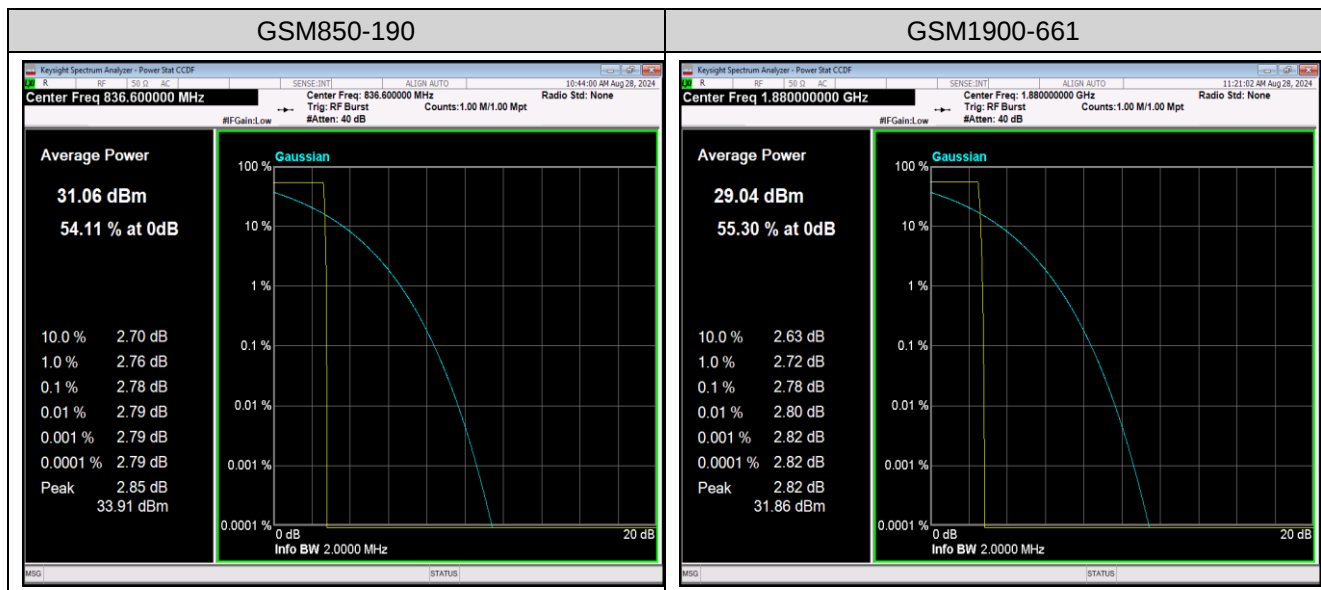
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.78	13	PASS
GSM1900	661	0	2.78	13	PASS

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

Test Graphs

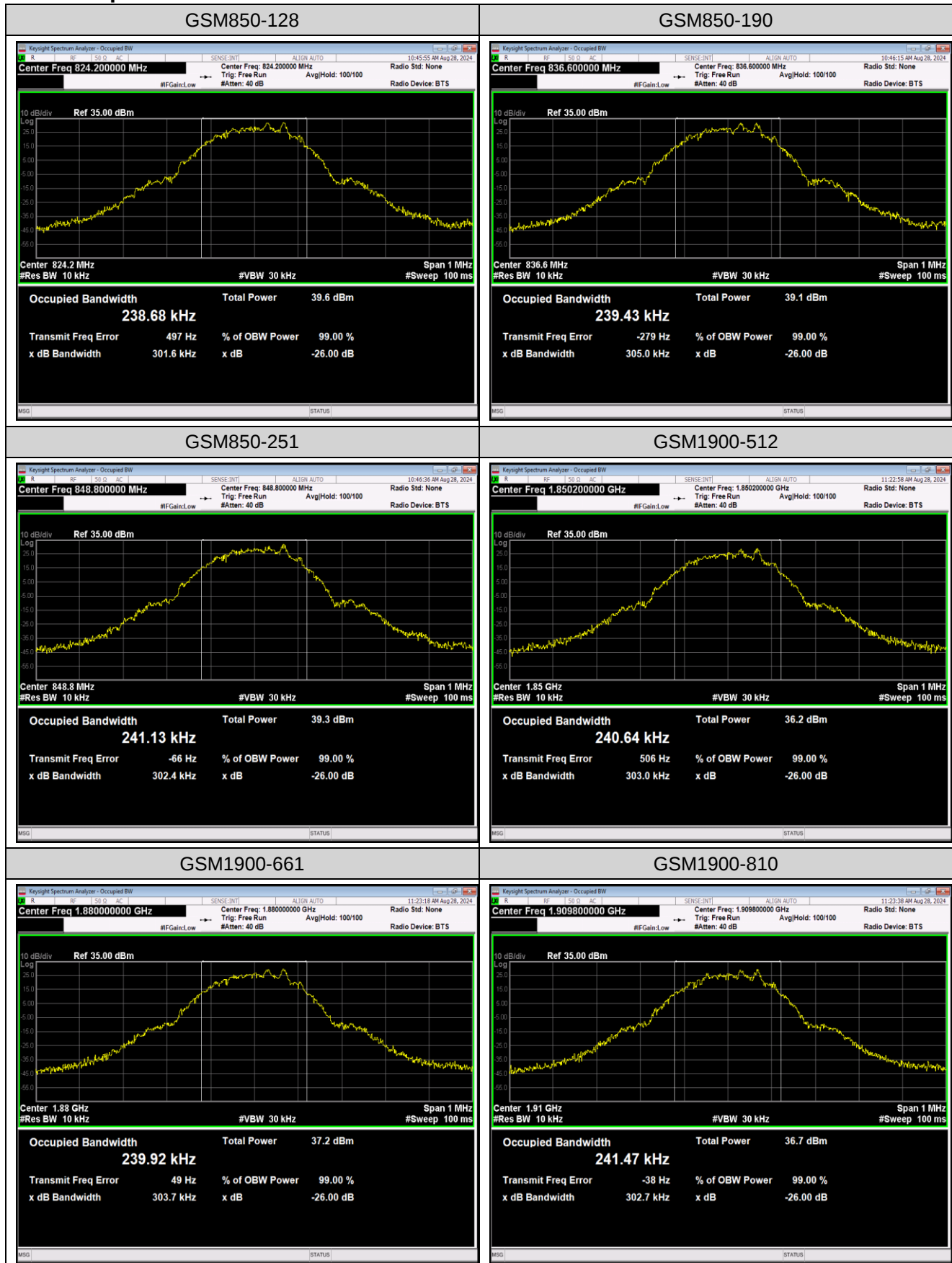


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.23868	0.3016	---	PASS
GSM850	190	5	0.23943	0.3050	---	PASS
GSM850	251	5	0.24113	0.3024	---	PASS
GSM1900	512	0	0.24064	0.3030	---	PASS
GSM1900	661	0	0.23992	0.3037	---	PASS
GSM1900	810	0	0.24147	0.3027	---	PASS

Test Graphs

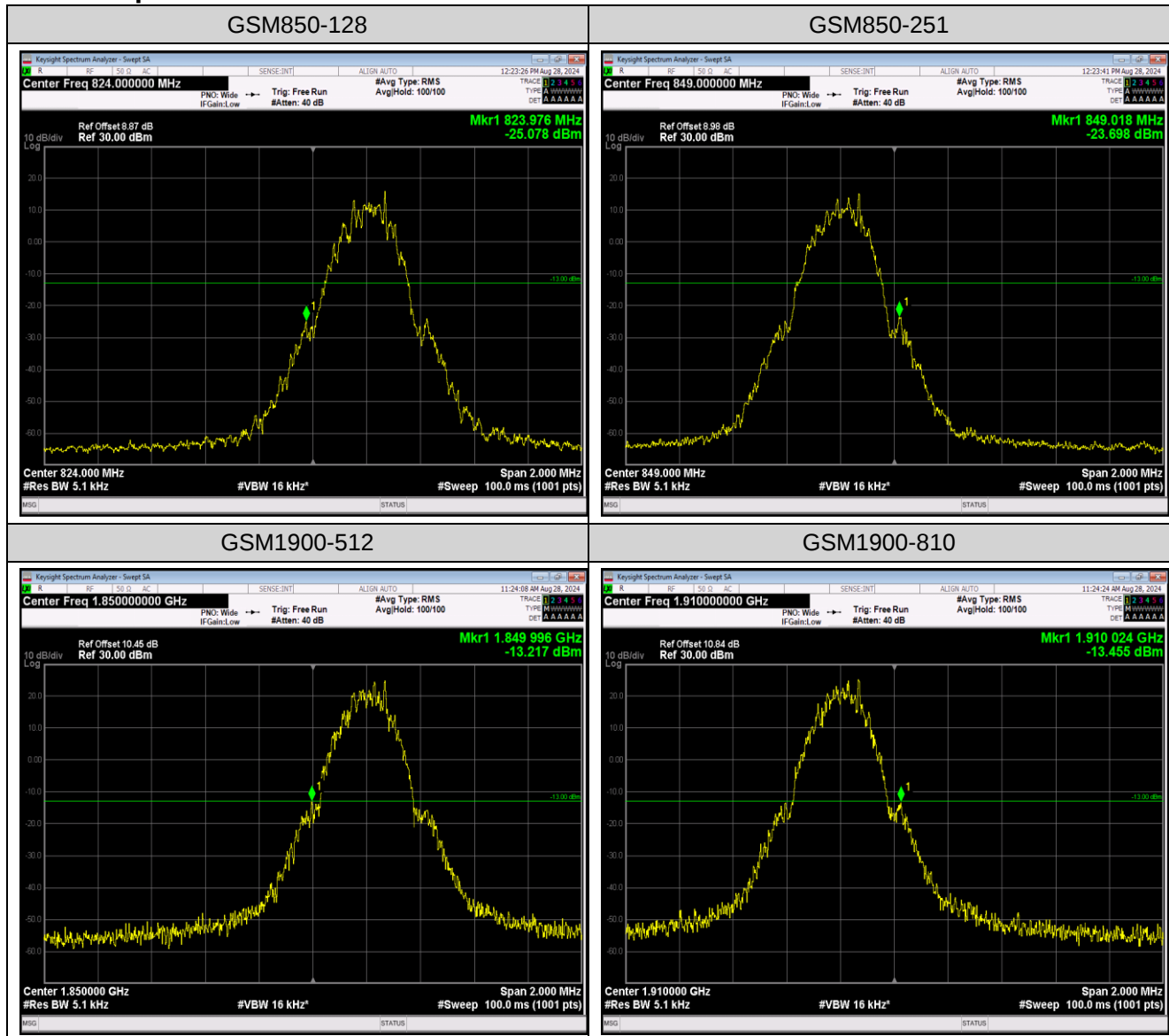


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-25.08	-13	PASS
GSM850	251	5	849.02	-23.70	-13	PASS
GSM1900	512	0	1850.00	-13.22	-13	PASS
GSM1900	810	0	1910.02	-13.45	-13	PASS

Test Graphs



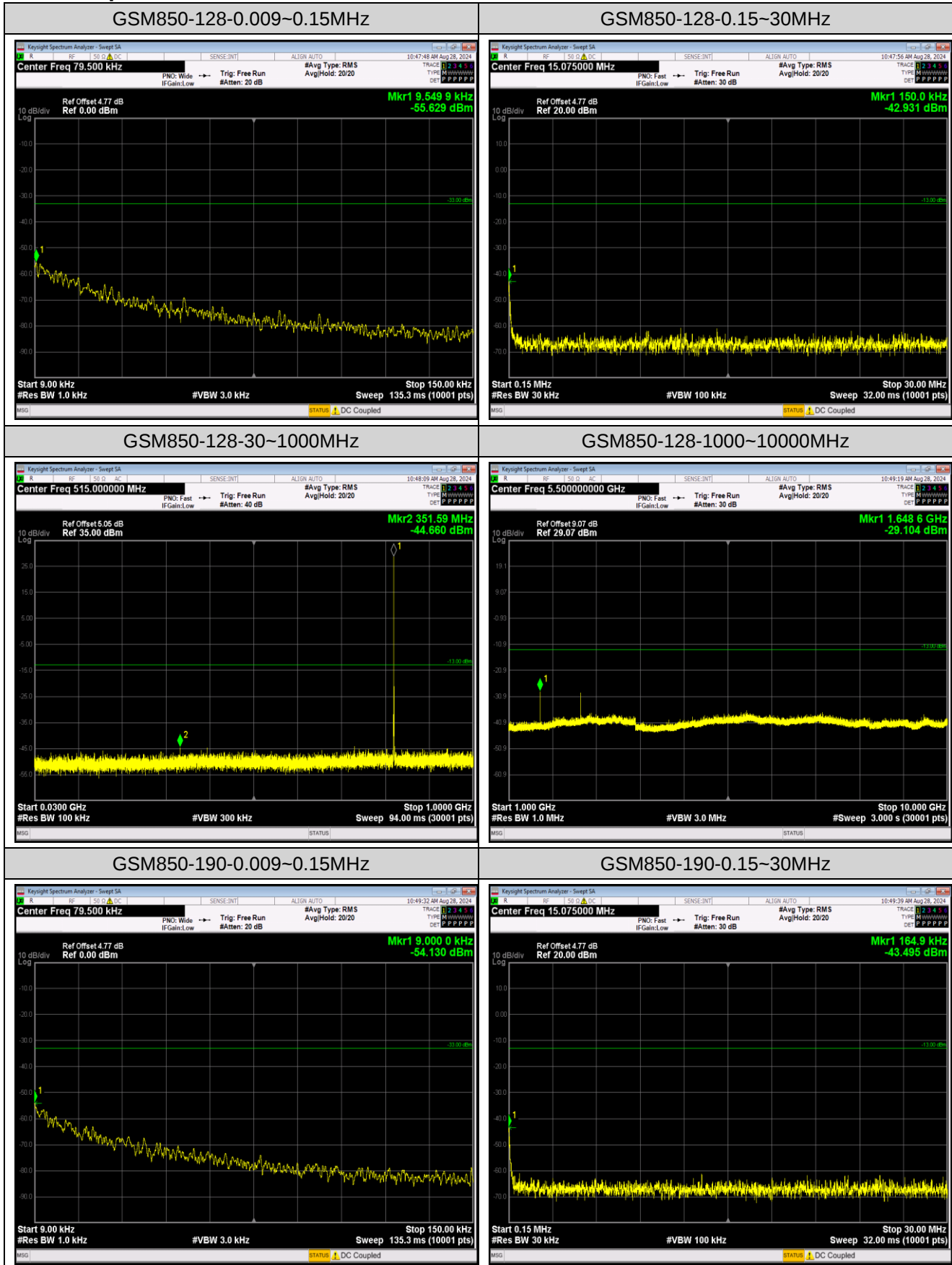
Appendix E: Conducted Spurious Emission

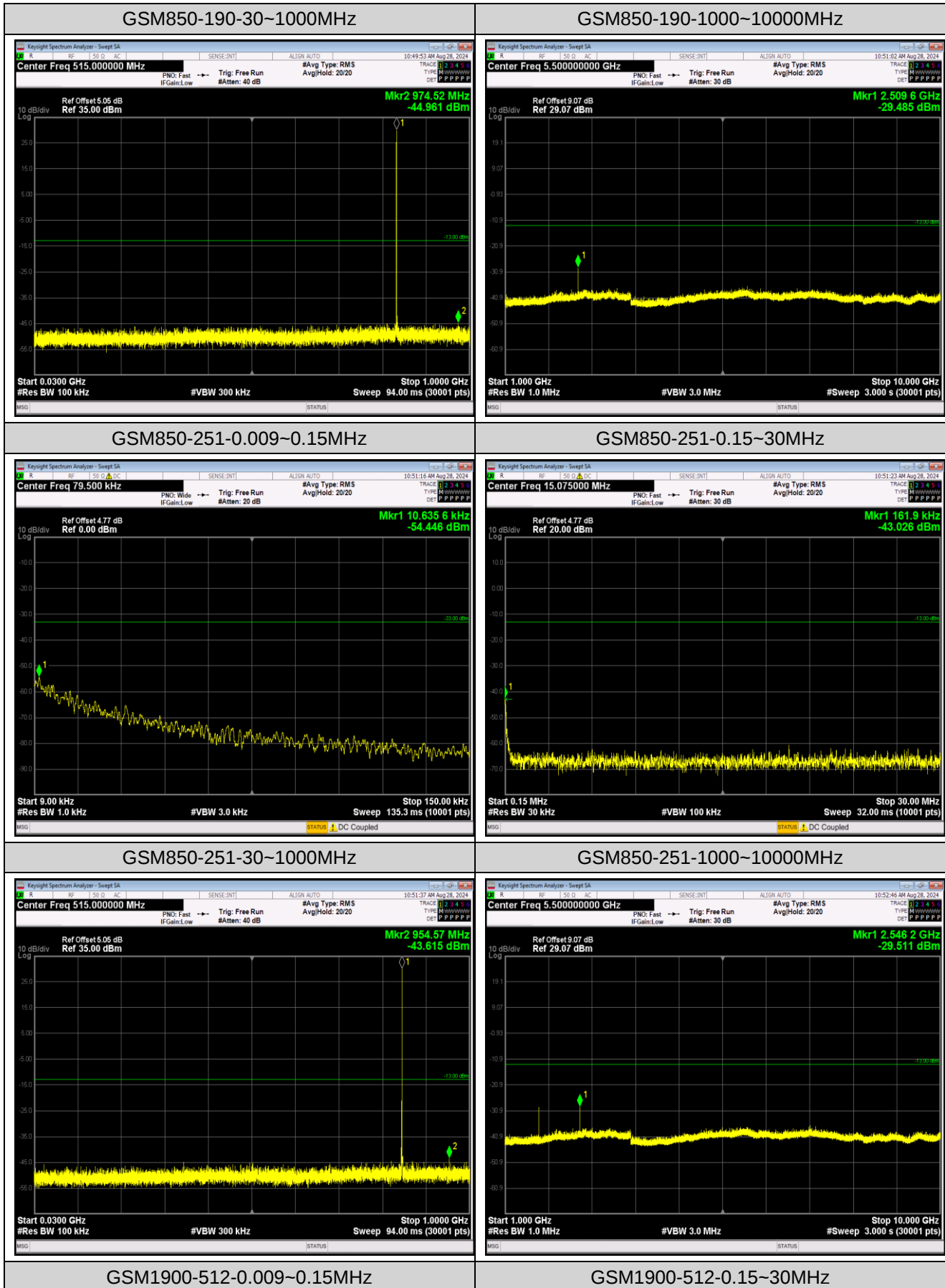
Test Result

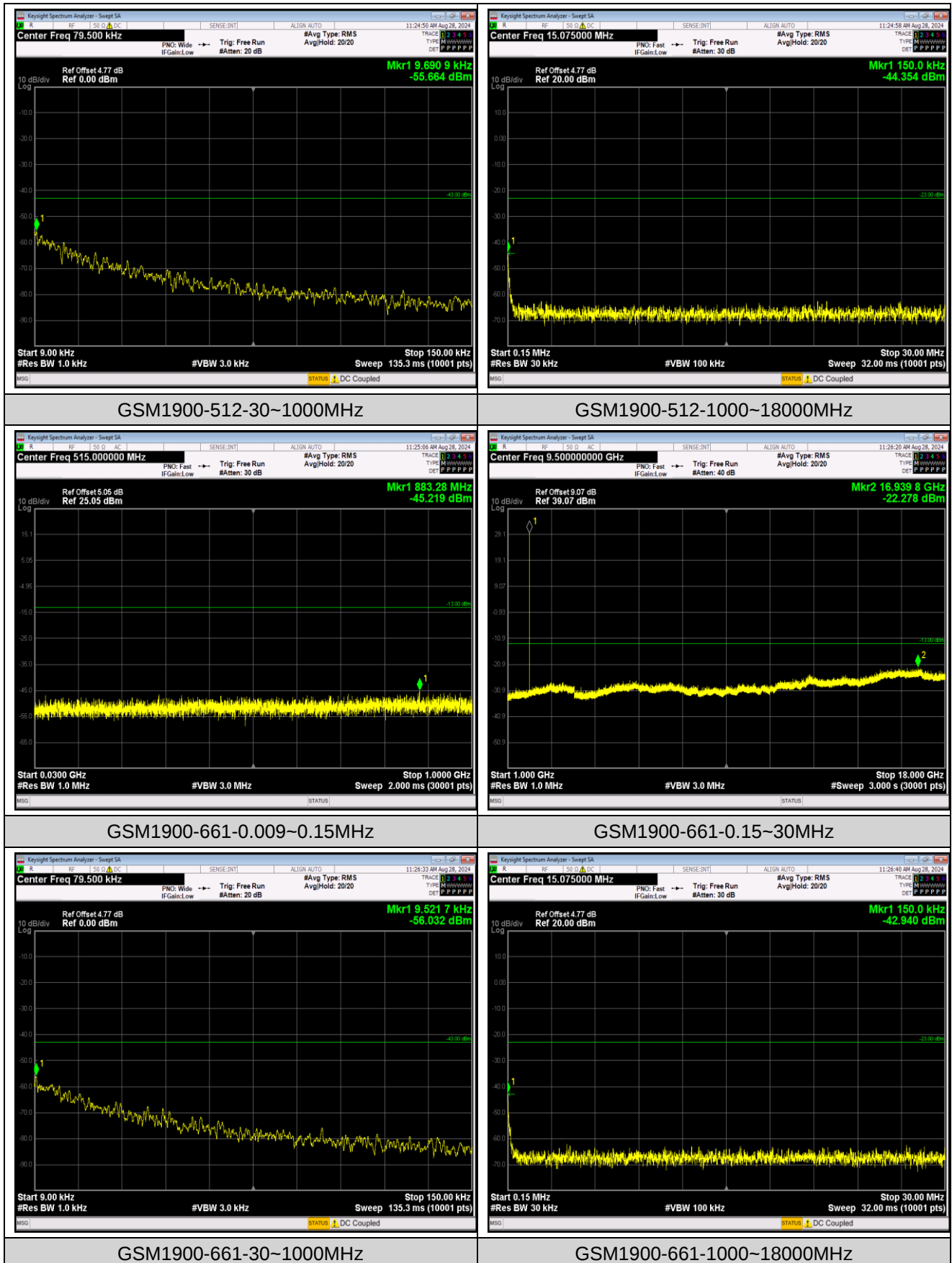
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.63	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-42.93	-13	PASS
GSM850	128	5	30~1000MHz	351.59	-44.66	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-29.1	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.13	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-43.5	-13	PASS
GSM850	190	5	30~1000MHz	974.52	-44.96	-13	PASS
GSM850	190	5	1000~10000MHz	2509.6	-29.49	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.45	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-43.03	-13	PASS
GSM850	251	5	30~1000MHz	954.57	-43.62	-13	PASS
GSM850	251	5	1000~10000MHz	2546.2	-29.51	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.66	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-44.35	-23	PASS
GSM1900	512	0	30~1000MHz	883.28	-45.22	-13	PASS
GSM1900	512	0	1000~18000MHz	16939.77	-22.28	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.03	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.94	-23	PASS
GSM1900	661	0	30~1000MHz	764.16	-45.15	-13	PASS
GSM1900	661	0	1000~18000MHz	16147.57	-22.17	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-53.93	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-40.92	-23	PASS
GSM1900	810	0	30~1000MHz	864.88	-45.42	-13	PASS
GSM1900	810	0	1000~18000MHz	16472.27	-21.98	-13	PASS

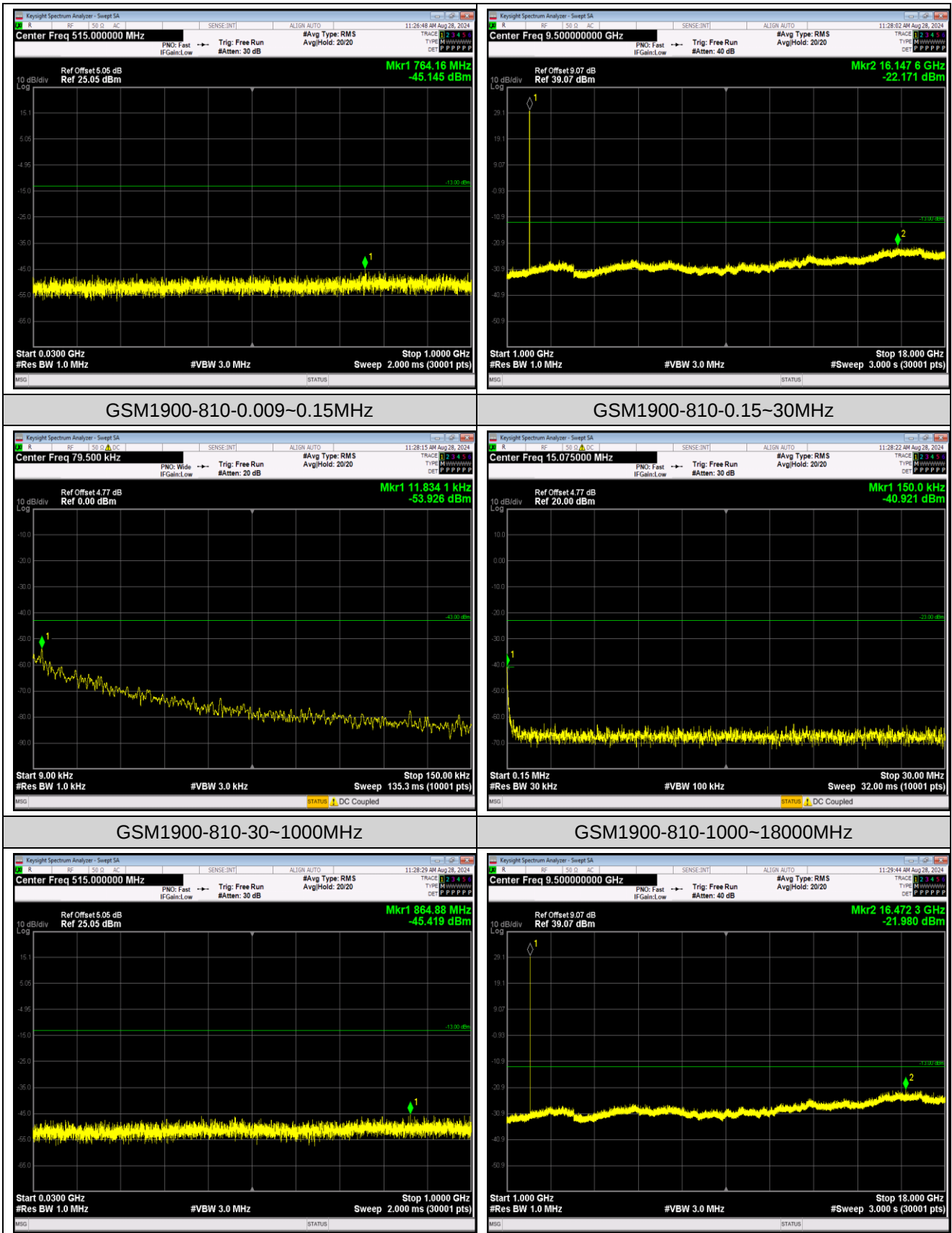
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.70	-30	3.07	0.003670	±2.5	Pass
	-20	1.10	0.001315		
	-10	1.68	0.002008		
	0	2.32	0.002773		
	10	4.97	0.005941		
	20	5.20	0.006216		
	30	4.26	0.005092		
	40	5.04	0.006024		
	50	5.91	0.007064		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.55	0.003048	±2.5	Pass
	3.70	2.97	0.003550		
	4.20	3.29	0.003933		
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	-0.32	-0.000170	Within authorized band for PCS 1900	Pass
	-20	12.91	0.006867		
	-10	8.98	0.004777		
	0	8.07	0.004293		
	10	17.92	0.009532		
	20	4.00	0.002128		
	30	20.11	0.010697		
	40	6.55	0.003484		
	50	17.05	0.009069		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.94	0.001032	Within authorized band for PCS 1900	Pass
	3.70	10.85	0.005771		
	4.20	0.81	0.000431		
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

