

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	33.20	29.49	38.45	PASS
GSM850	190	5	33.43	29.72	38.45	PASS
GSM850	251	5	33.46	29.75	38.45	PASS
GSM1900	512	0	29.46	28.26	33.00	PASS
GSM1900	661	0	29.51	28.31	33.00	PASS
GSM1900	810	0	29.49	28.29	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.19	29.48	38.45	PASS
GPRS850	128	5	2	31.22	27.51	38.45	PASS
GPRS850	128	5	3	29.31	25.6	38.45	PASS
GPRS850	128	5	4	27.17	23.46	38.45	PASS
GPRS850	190	5	1	33.40	29.69	38.45	PASS
GPRS850	190	5	2	31.28	27.57	38.45	PASS
GPRS850	190	5	3	29.41	25.7	38.45	PASS
GPRS850	190	5	4	27.25	23.54	38.45	PASS
GPRS850	251	5	1	33.41	29.7	38.45	PASS
GPRS850	251	5	2	31.25	27.54	38.45	PASS
GPRS850	251	5	3	29.33	25.62	38.45	PASS
GPRS850	251	5	4	27.12	23.41	38.45	PASS
GPRS1900	512	0	1	29.54	28.34	33.00	PASS
GPRS1900	512	0	2	27.53	26.33	33.00	PASS
GPRS1900	512	0	3	25.94	24.74	33.00	PASS
GPRS1900	512	0	4	23.97	22.77	33.00	PASS
GPRS1900	661	0	1	29.56	28.36	33.00	PASS
GPRS1900	661	0	2	27.43	26.23	33.00	PASS
GPRS1900	661	0	3	25.85	24.65	33.00	PASS
GPRS1900	661	0	4	23.89	22.69	33.00	PASS
GPRS1900	810	0	1	29.58	28.38	33.00	PASS
GPRS1900	810	0	2	27.28	26.08	33.00	PASS
GPRS1900	810	0	3	25.67	24.47	33.00	PASS
GPRS1900	810	0	4	23.70	22.5	33.00	PASS

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

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

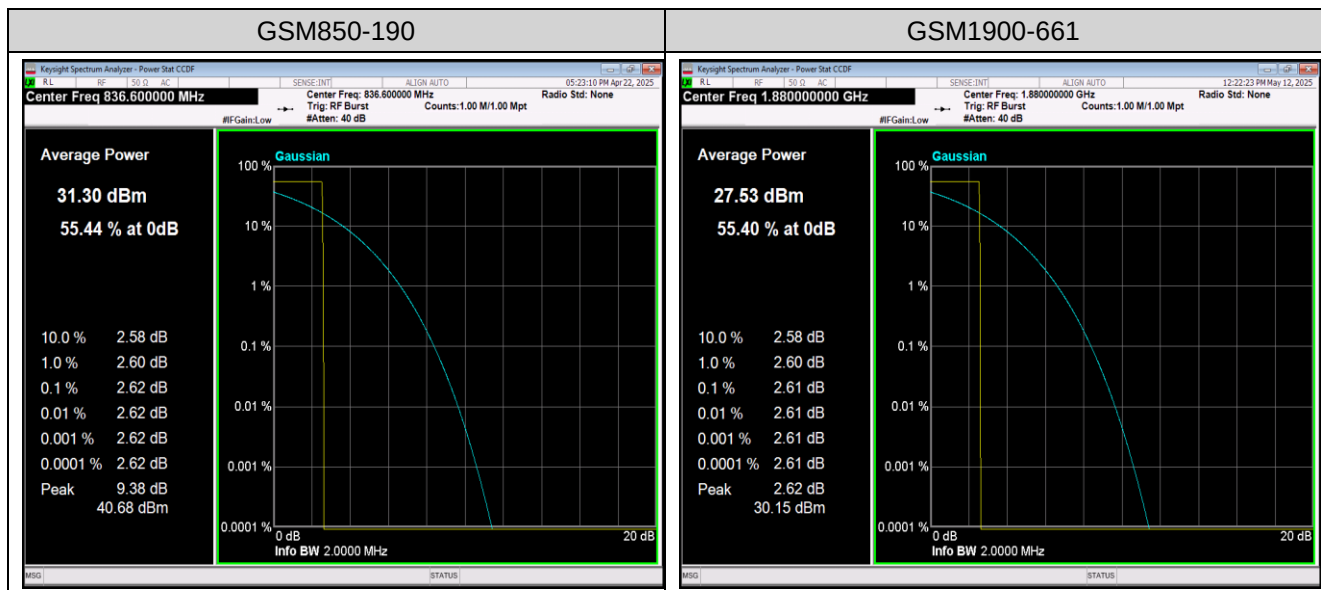
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.62	13	PASS
GSM1900	661	0	2.61	13	PASS

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

Test Graphs

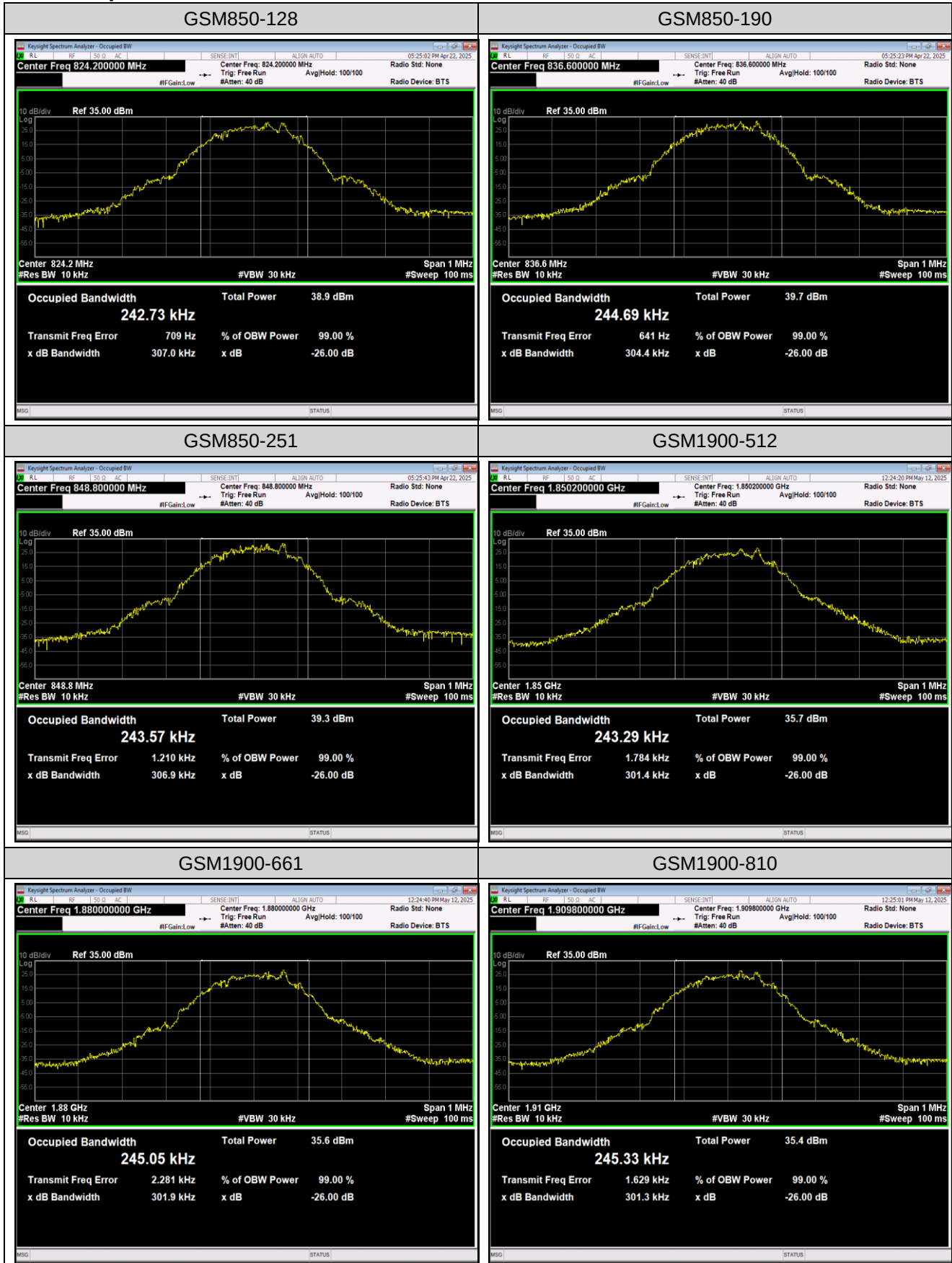


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24273	0.3070	---	PASS
GSM850	190	5	0.24469	0.3044	---	PASS
GSM850	251	5	0.24357	0.3069	---	PASS
GSM1900	512	0	0.24329	0.3014	---	PASS
GSM1900	661	0	0.24505	0.3019	---	PASS
GSM1900	810	0	0.24533	0.3013	---	PASS

Test Graphs

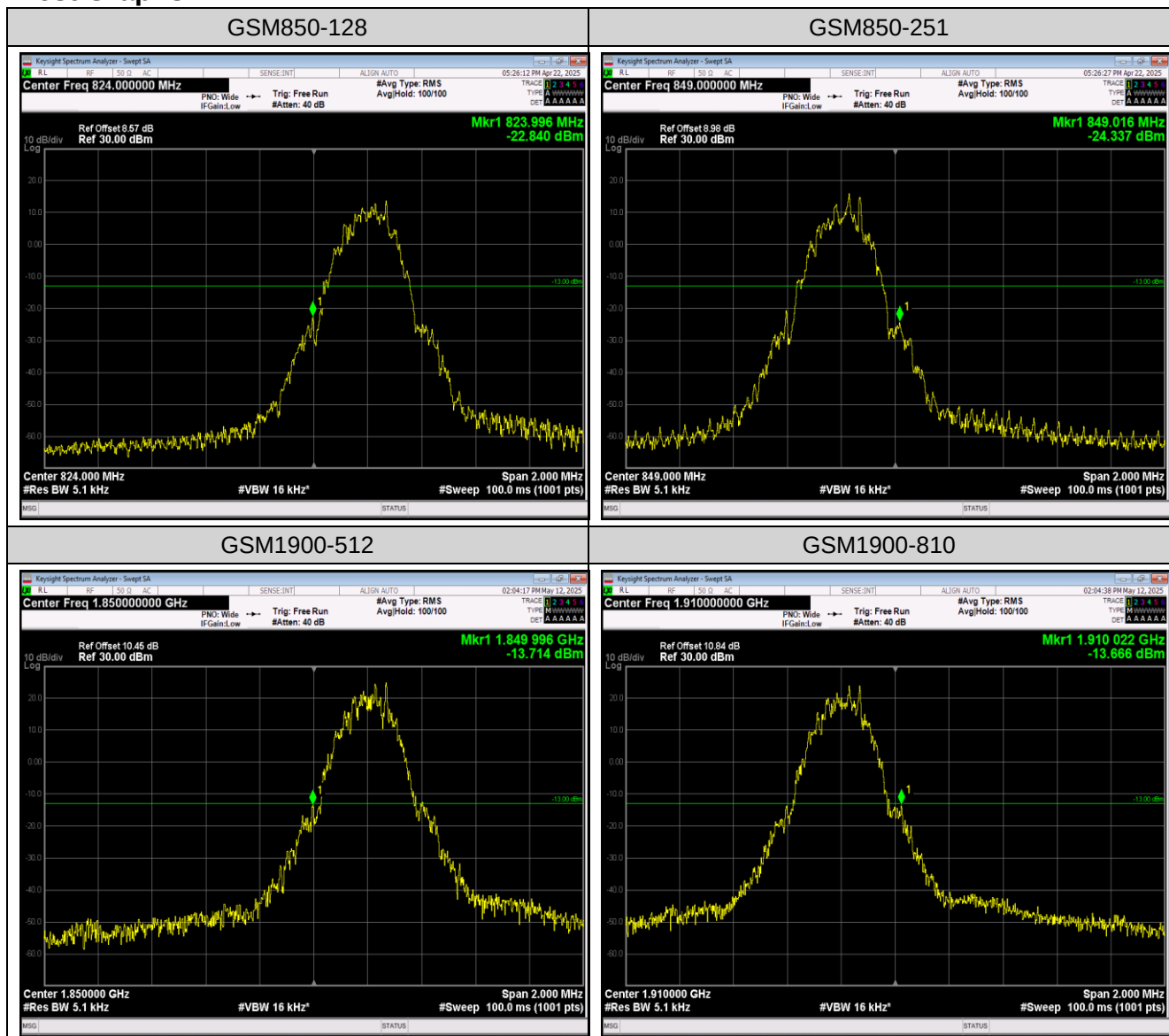


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-22.84	-13	PASS
GSM850	251	5	849.02	-24.34	-13	PASS
GSM1900	512	0	1850.00	-13.71	-13	PASS
GSM1900	810	0	1910.02	-13.67	-13	PASS

Test Graphs



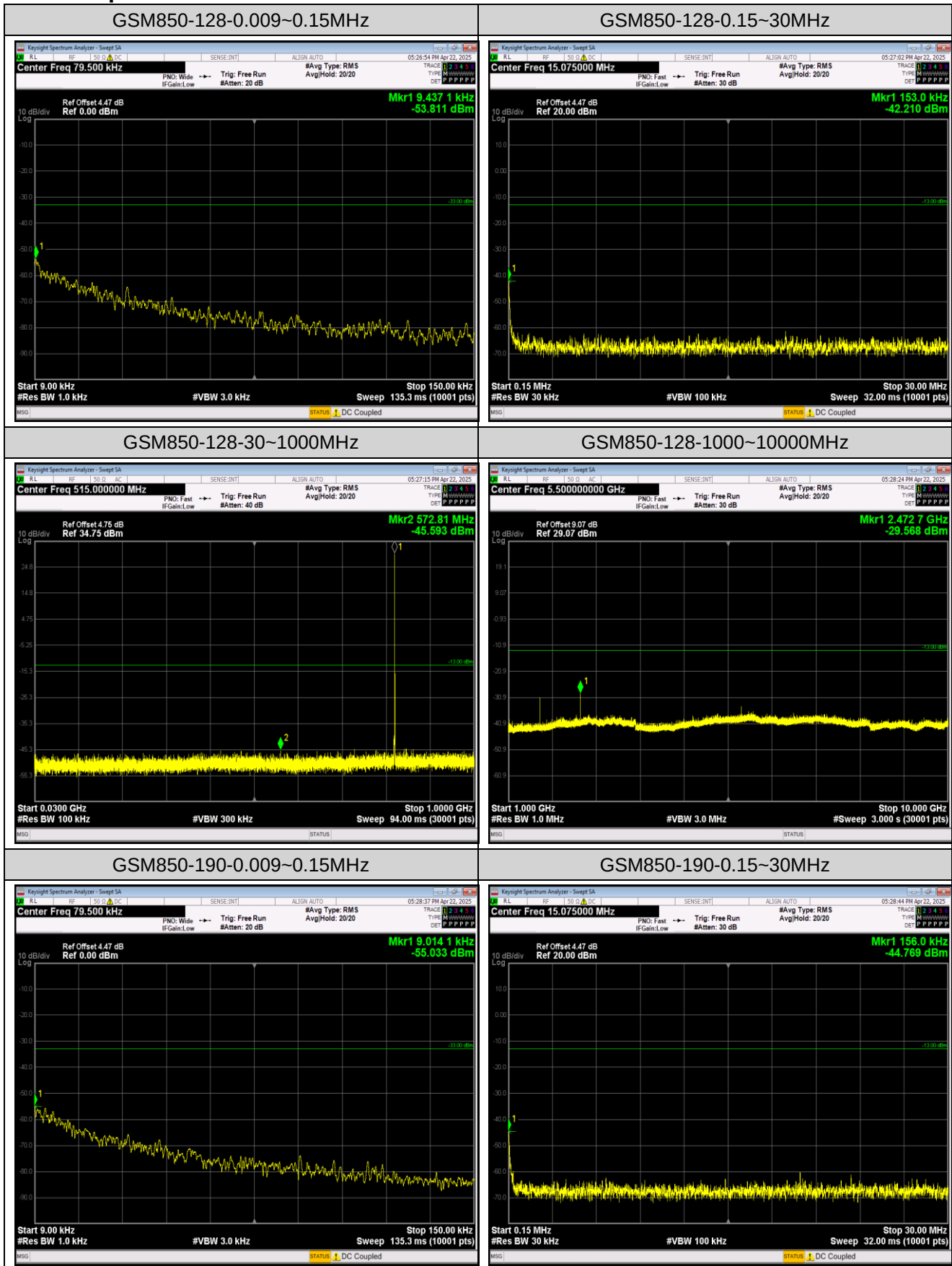
Appendix E: Conducted Spurious Emission

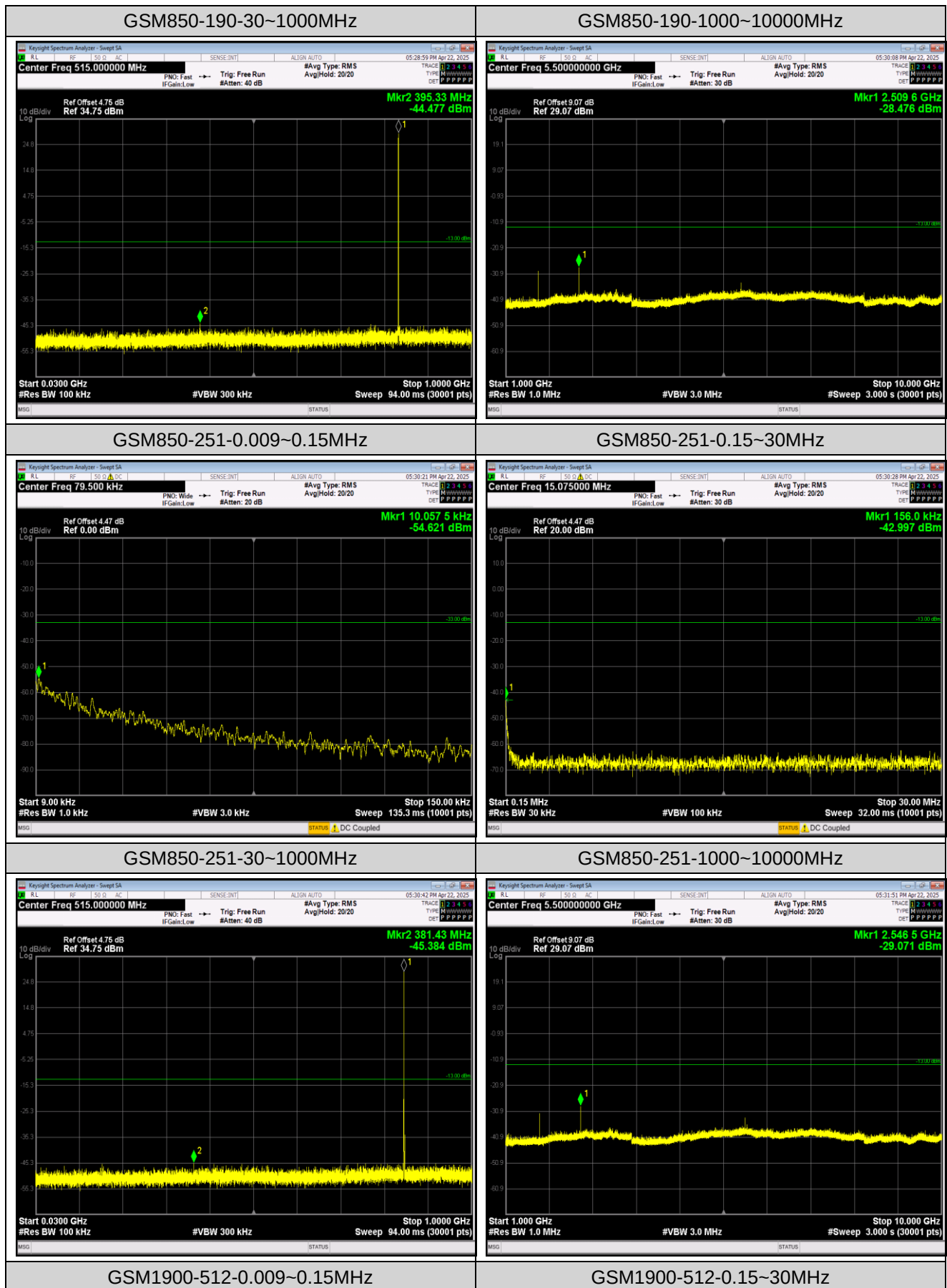
Test Result

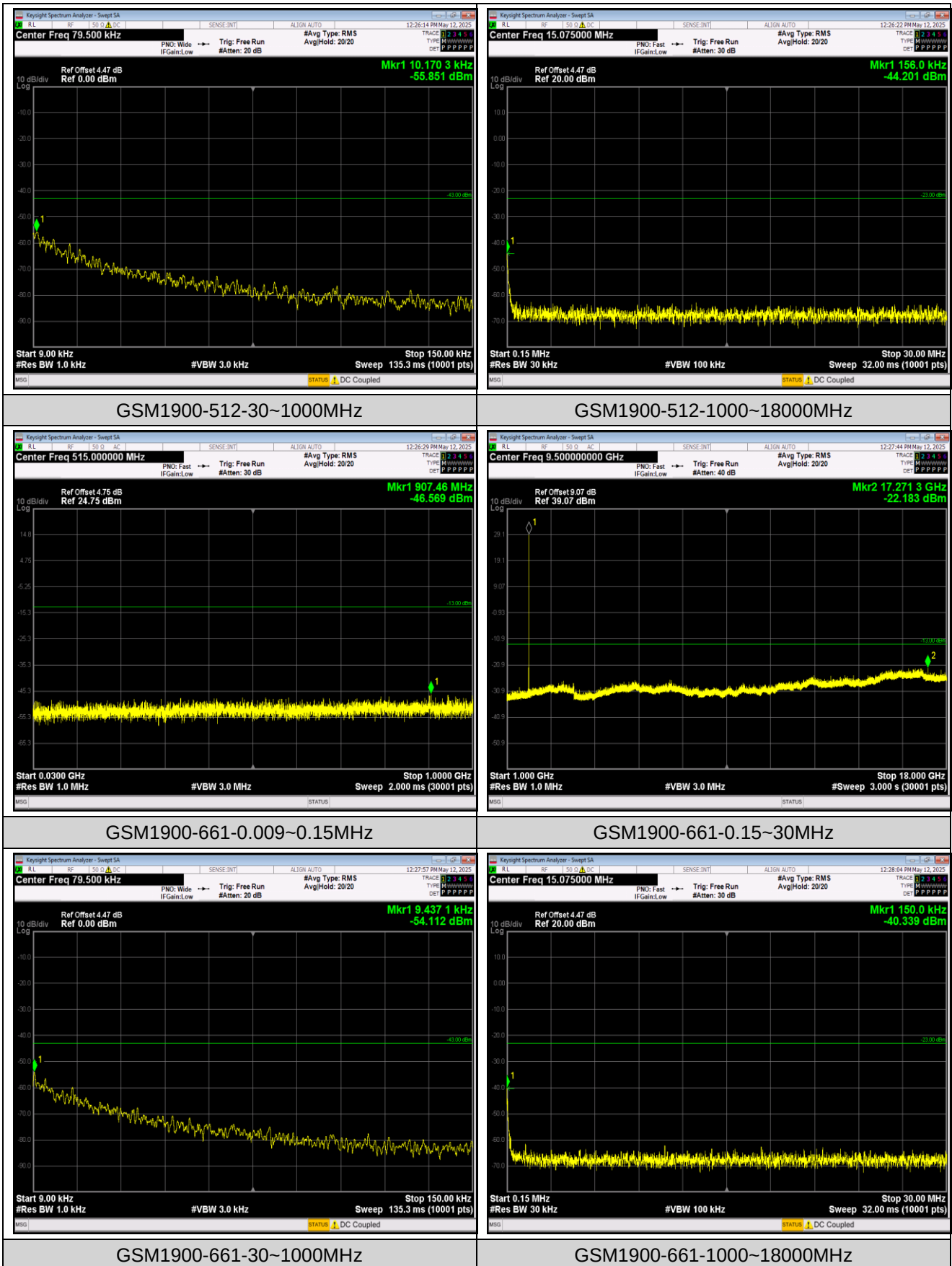
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-53.81	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-42.21	-13	PASS
GSM850	128	5	30~1000MHz	572.81	-45.59	-13	PASS
GSM850	128	5	1000~10000MHz	2472.7	-29.57	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.03	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-44.77	-13	PASS
GSM850	190	5	30~1000MHz	395.33	-44.48	-13	PASS
GSM850	190	5	1000~10000MHz	2509.6	-28.48	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.62	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-43	-13	PASS
GSM850	251	5	30~1000MHz	381.43	-45.38	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-29.07	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.85	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-44.2	-23	PASS
GSM1900	512	0	30~1000MHz	907.46	-46.57	-13	PASS
GSM1900	512	0	1000~18000MHz	17271.27	-22.18	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.11	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-40.34	-23	PASS
GSM1900	661	0	30~1000MHz	411.31	-46.45	-13	PASS
GSM1900	661	0	1000~18000MHz	16332.87	-21.98	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.05	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-44.28	-23	PASS
GSM1900	810	0	30~1000MHz	926.47	-45.61	-13	PASS
GSM1900	810	0	1000~18000MHz	16209.9	-22.21	-13	PASS

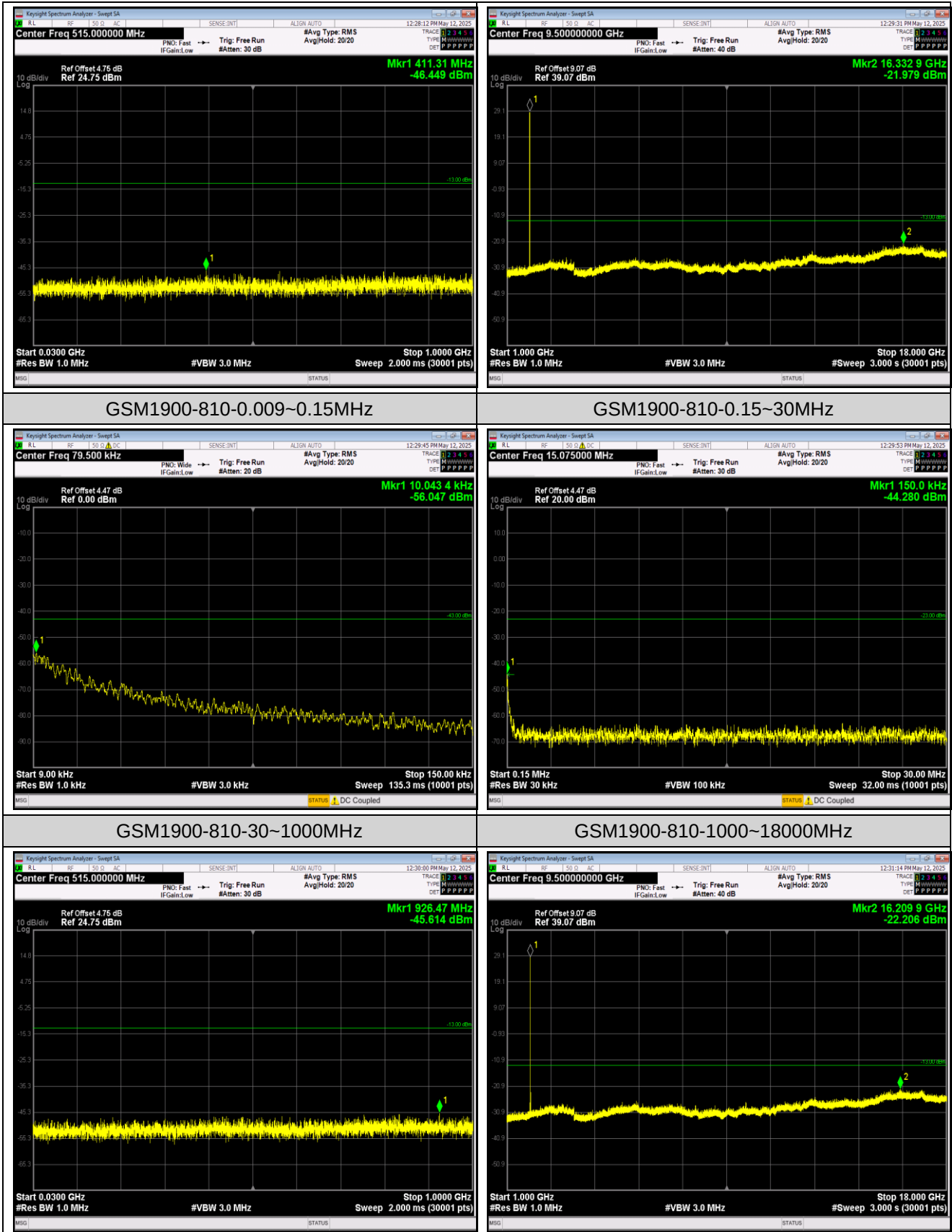
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	4.97	0.005941	±2.5	Pass
	-20	-8.04	-0.009610		
	-10	-9.33	-0.011152		
	0	-19.63	-0.023464		
	10	-16.18	-0.019340		
	20	-14.98	-0.017906		
	30	2.10	0.002510		
	40	-11.17	-0.013352		
	50	-2.10	-0.002510		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.30	2.13	0.002546	±2.5	Pass
	3.70	8.59	0.010268		
	4.25	6.34	0.004582		
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		
3.80	-30	4.07	0.002165	Within authorized band for PCS 1900	Pass
	-20	-0.10	-0.000053		
	-10	0.36	0.000191		
	0	3.58	0.001904		
	10	-0.32	-0.000170		
	20	-1.74	-0.000926		
	30	-5.10	-0.002713		
	40	3.39	0.001803		
	50	3.39	0.001803		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.30	-11.33	-0.006027	Within authorized band for PCS 1900	Pass
	3.70	0.45	0.000239		
	4.25	0.94	0.000500		
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

