

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	33.38	25.4	38.45	PASS
GSM850	190	5	33.42	25.44	38.45	PASS
GSM850	251	5	33.40	25.42	38.45	PASS
GSM1900	512	0	30.02	27.75	33.00	PASS
GSM1900	661	0	30.21	27.94	33.00	PASS
GSM1900	810	0	30.22	27.95	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.37	25.39	38.45	PASS
GPRS850	128	5	2	32.67	24.69	38.45	PASS
GPRS850	128	5	3	30.97	22.99	38.45	PASS
GPRS850	128	5	4	29.71	21.73	38.45	PASS
GPRS850	190	5	1	33.41	25.43	38.45	PASS
GPRS850	190	5	2	32.69	24.71	38.45	PASS
GPRS850	190	5	3	30.97	22.99	38.45	PASS
GPRS850	190	5	4	29.72	21.74	38.45	PASS
GPRS850	251	5	1	33.39	25.41	38.45	PASS
GPRS850	251	5	2	32.70	24.72	38.45	PASS
GPRS850	251	5	3	31.01	23.03	38.45	PASS
GPRS850	251	5	4	29.76	21.78	38.45	PASS
GPRS1900	512	0	1	30.01	27.74	33.00	PASS
GPRS1900	512	0	2	29.33	27.06	33.00	PASS
GPRS1900	512	0	3	27.53	25.26	33.00	PASS
GPRS1900	512	0	4	26.27	24.00	33.00	PASS
GPRS1900	661	0	1	30.19	27.92	33.00	PASS
GPRS1900	661	0	2	29.52	27.25	33.00	PASS
GPRS1900	661	0	3	27.77	25.50	33.00	PASS
GPRS1900	661	0	4	26.53	24.26	33.00	PASS
GPRS1900	810	0	1	30.19	27.92	33.00	PASS
GPRS1900	810	0	2	29.49	27.22	33.00	PASS
GPRS1900	810	0	3	27.67	25.40	33.00	PASS
GPRS1900	810	0	4	26.41	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)

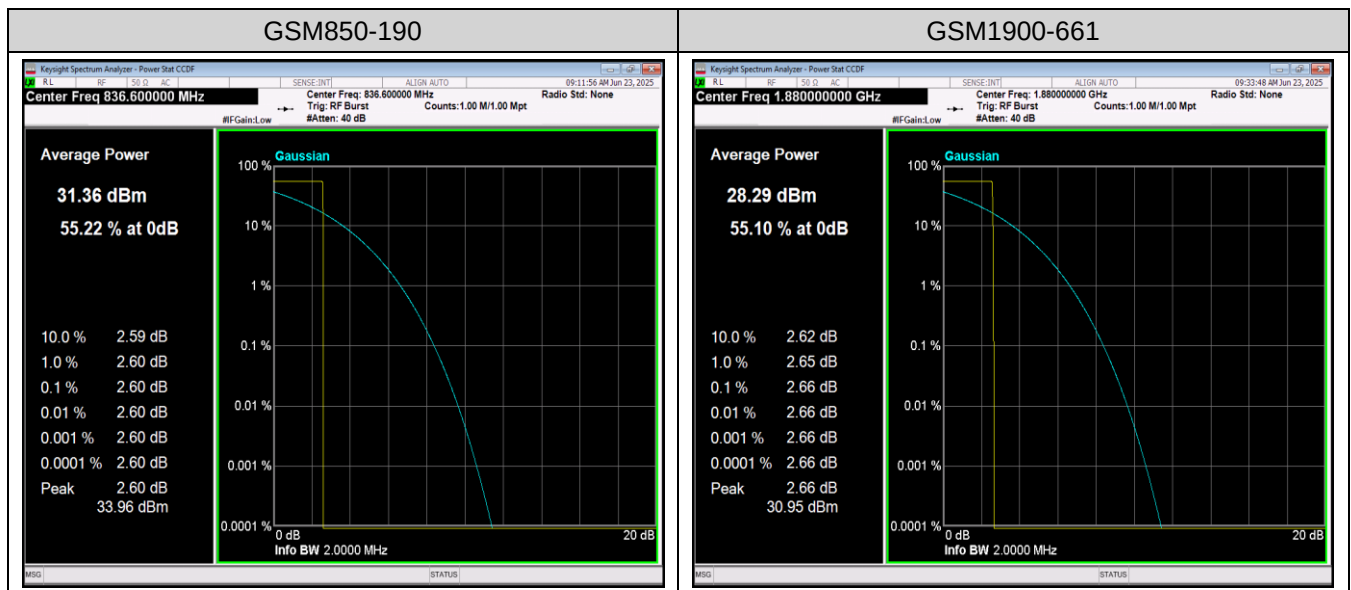
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.6	13	PASS
GSM1900	661	0	2.66	13	PASS

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

Test Graphs

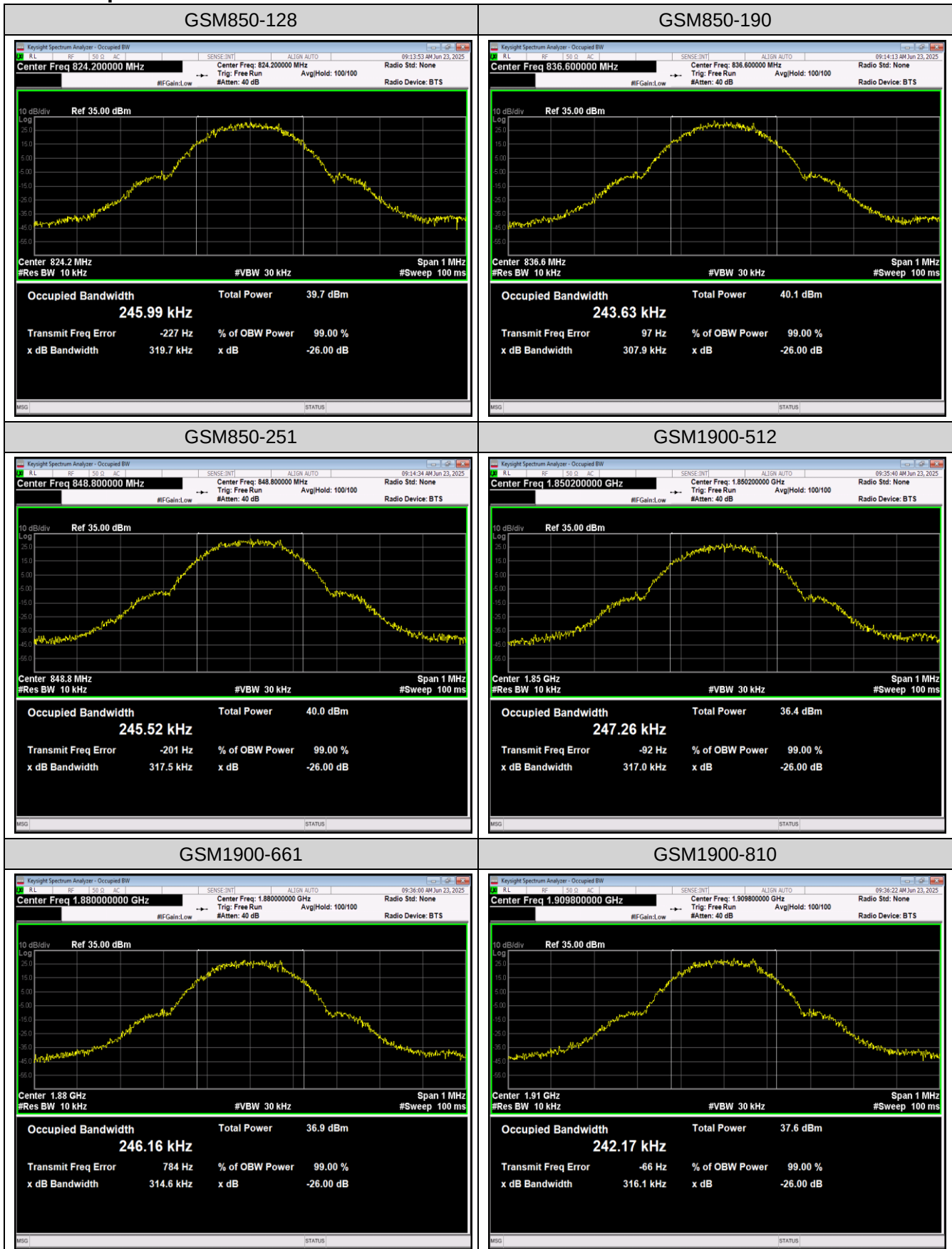


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24599	0.3197	---	PASS
GSM850	190	5	0.24363	0.3079	---	PASS
GSM850	251	5	0.24552	0.3175	---	PASS
GSM1900	512	0	0.24726	0.3170	---	PASS
GSM1900	661	0	0.24616	0.3146	---	PASS
GSM1900	810	0	0.24217	0.3161	---	PASS

Test Graphs

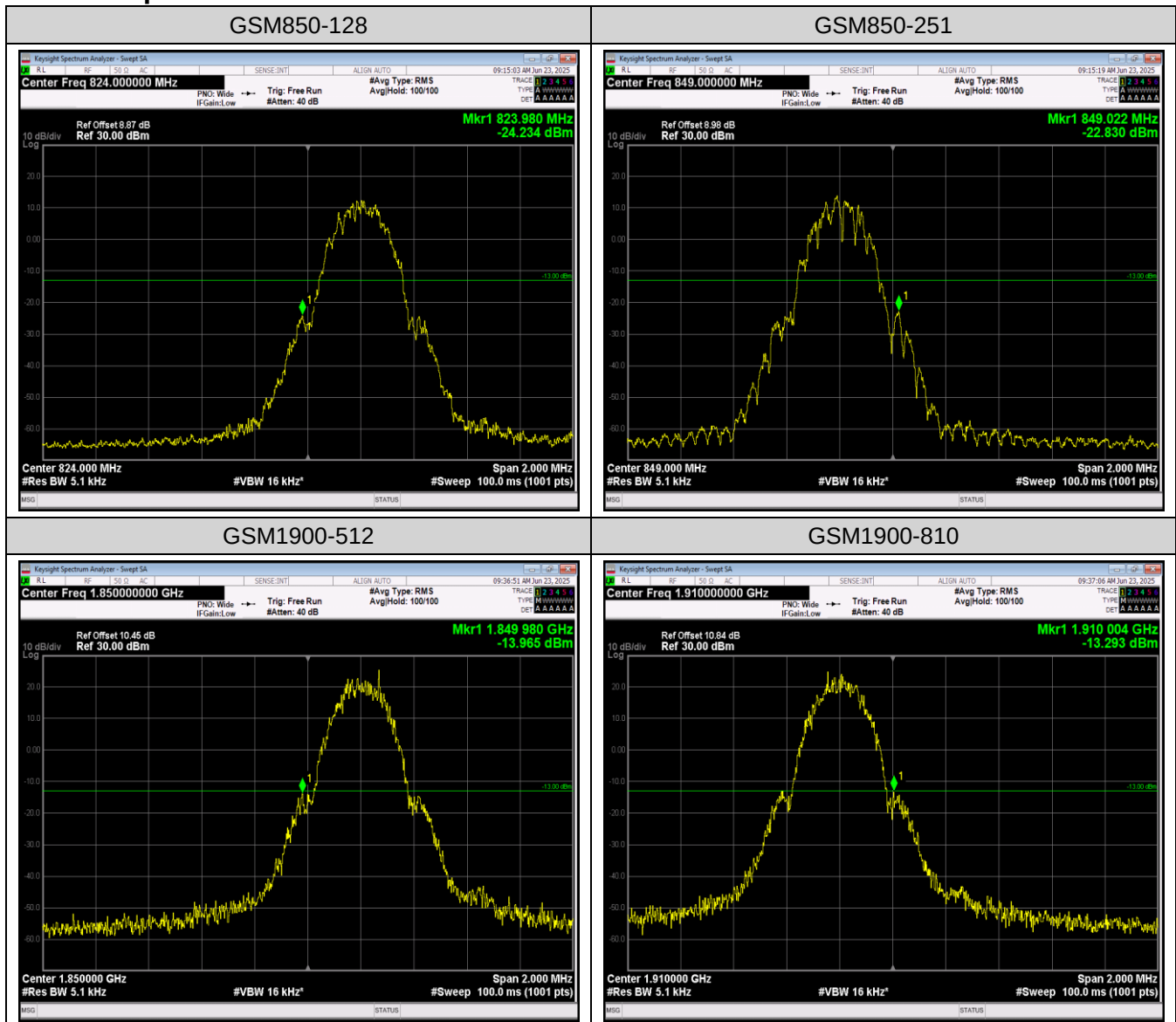


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.23	-13	PASS
GSM850	251	5	849.02	-22.83	-13	PASS
GSM1900	512	0	1849.98	-13.97	-13	PASS
GSM1900	810	0	1910.00	-13.29	-13	PASS

Test Graphs



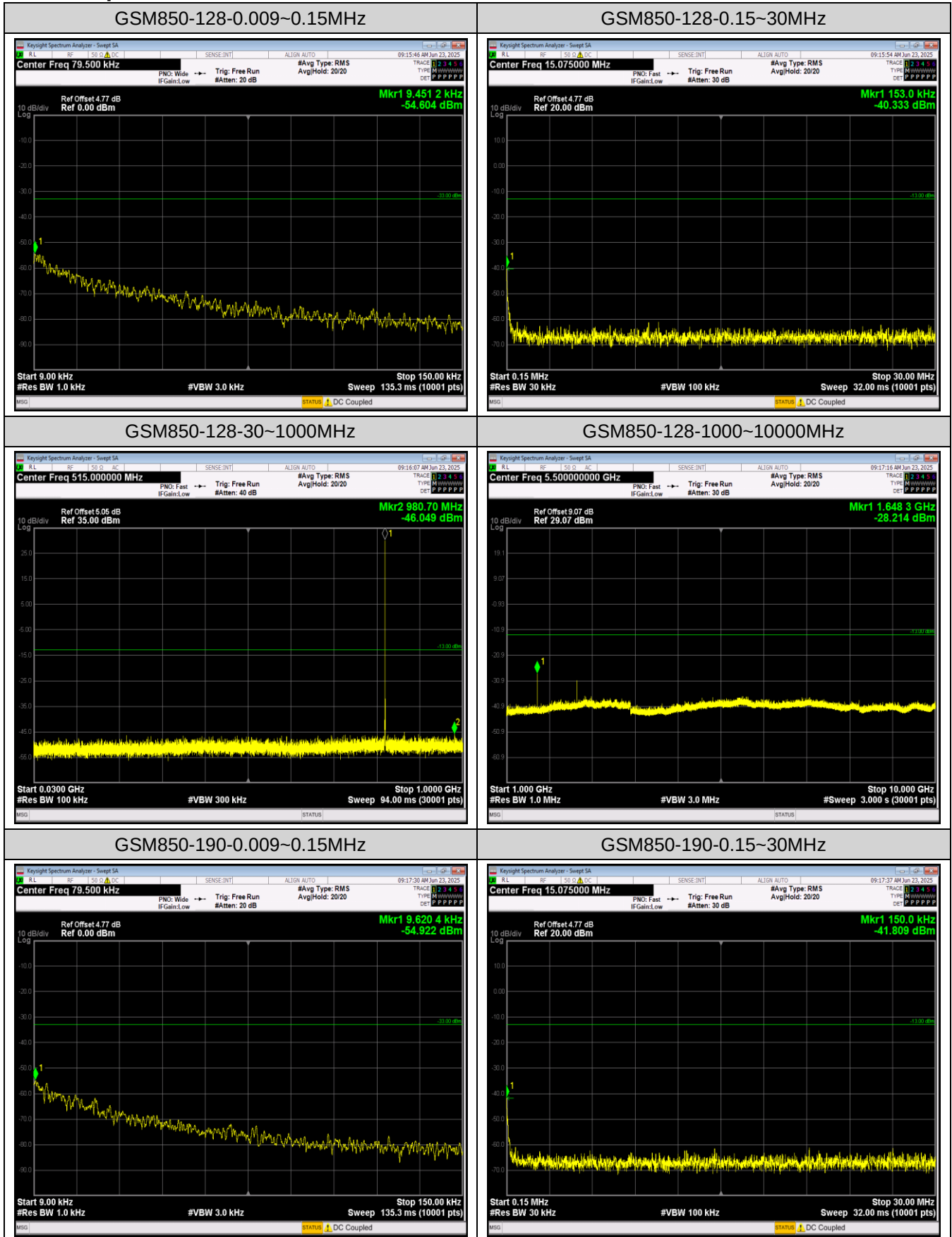
Appendix E: Conducted Spurious Emission

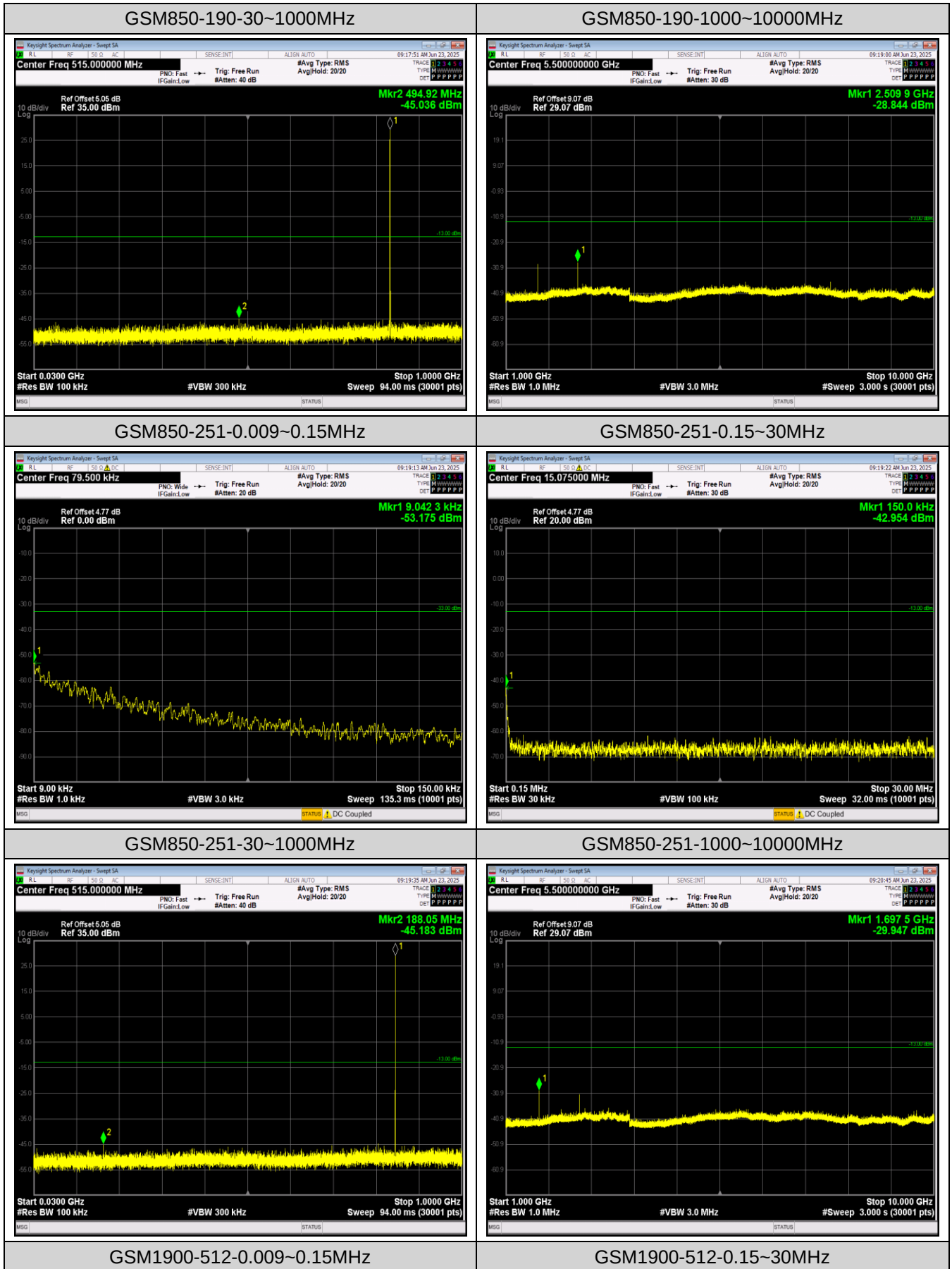
Test Result

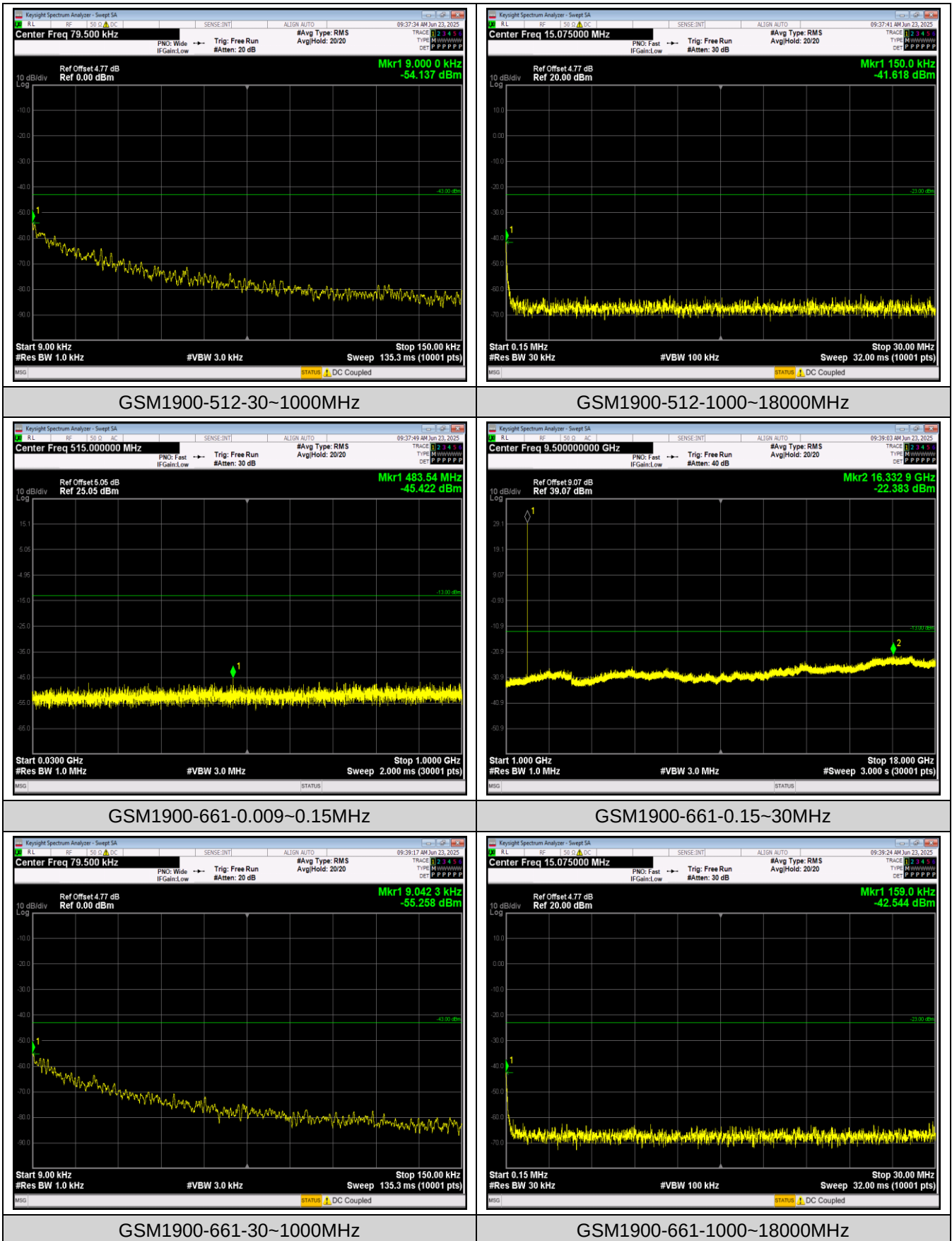
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.6	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-40.33	-13	PASS
GSM850	128	5	30~1000MHz	980.7	-46.05	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-28.21	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.92	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-41.81	-13	PASS
GSM850	190	5	30~1000MHz	494.92	-45.04	-13	PASS
GSM850	190	5	1000~10000MHz	2509.9	-28.84	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.18	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.95	-13	PASS
GSM850	251	5	30~1000MHz	188.05	-45.18	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-29.95	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.14	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-41.62	-23	PASS
GSM1900	512	0	30~1000MHz	483.54	-45.42	-13	PASS
GSM1900	512	0	1000~18000MHz	16332.87	-22.38	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.26	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-42.54	-23	PASS
GSM1900	661	0	30~1000MHz	935.85	-45.66	-13	PASS
GSM1900	661	0	1000~18000MHz	15966.23	-22.21	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.6	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-42.31	-23	PASS
GSM1900	810	0	30~1000MHz	925.83	-45.49	-13	PASS
GSM1900	810	0	1000~18000MHz	17000.97	-21.8	-13	PASS

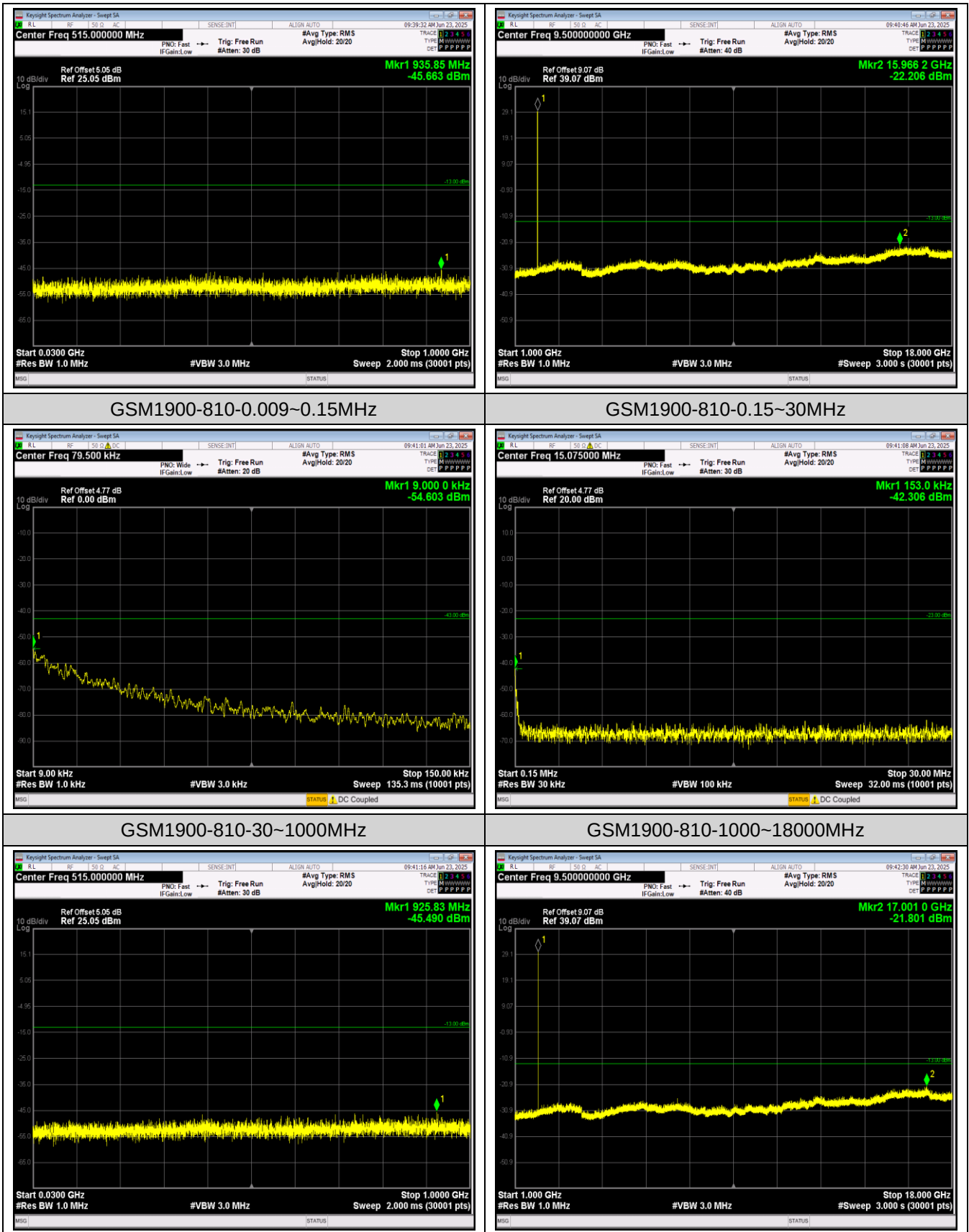
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.92	-30	11.84	0.014153	±2.5	Pass
	-20	7.38	0.008821		
	-10	6.98	0.008343		
	0	6.98	0.008343		
	10	5.13	0.006132		
	20	11.53	0.013782		
	30	-1.07	-0.001279		
	40	5.88	0.007028		
	50	2.64	0.003156		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	4.35	0.005200	±2.5	Pass
	3.92	-6.31	-0.007542		
	4.53	4.82	0.005761		
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		
3.92	-30	-4.41	-0.002346	Within authorized band for PCS 1900	Pass
	-20	-7.26	-0.003862		
	-10	6.81	0.003622		
	0	4.84	0.002574		
	10	4.11	0.002186		
	20	3.63	0.001931		
	30	1.31	0.000697		
	40	4.23	0.002250		
	50	-5.43	-0.002888		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	1.65	0.000878	Within authorized band for PCS 1900	Pass
	3.92	1.66	0.000883		
	4.53	1.29	0.000686		
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

