

Appendix for GSM850/1900

Product Name: Smart Phone

Model No: Black G4

Appendix A: Average Power Output Data

Test Result

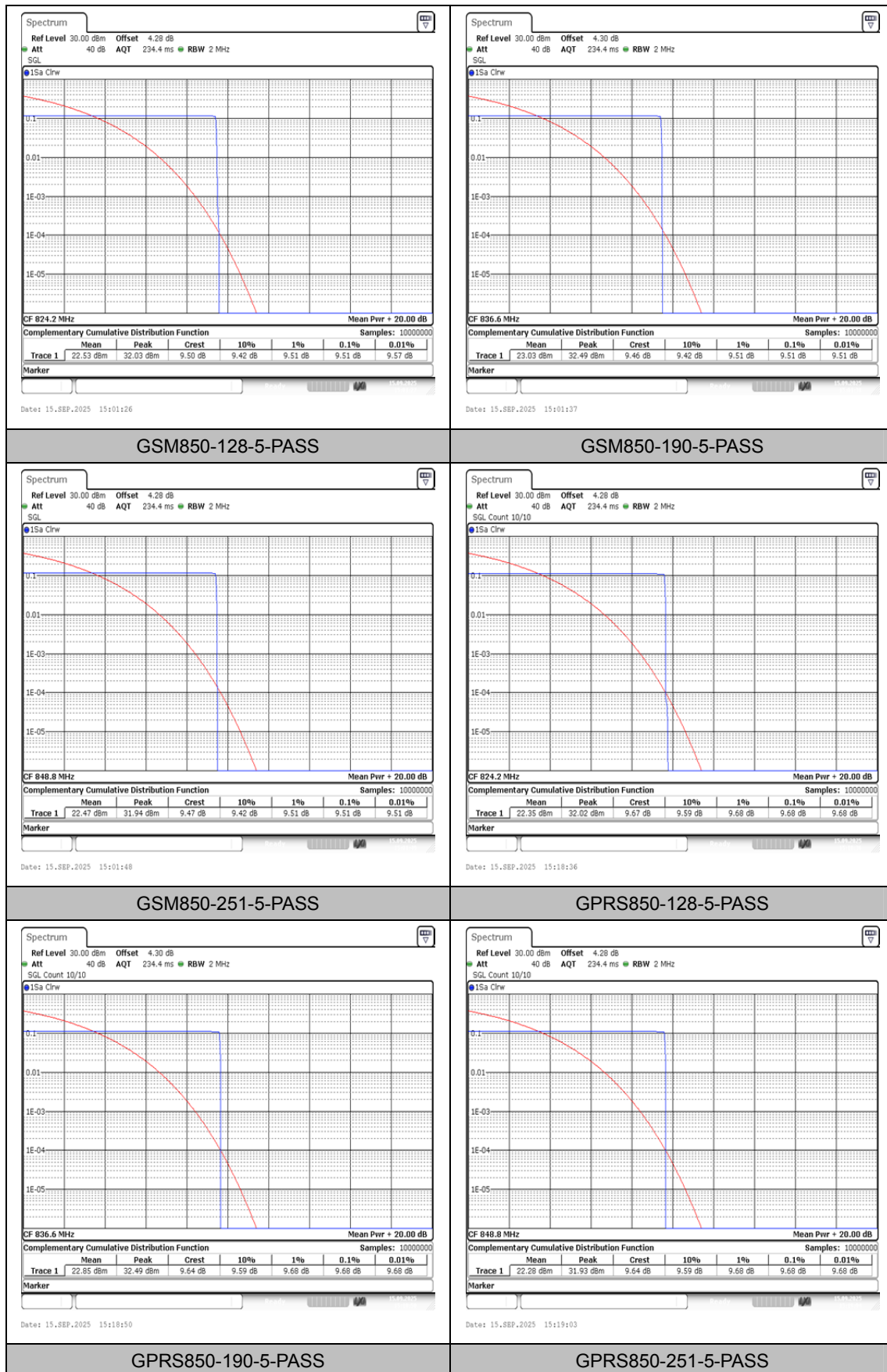
GSM - Burst Average Power (dBm)						
Band	GSM 850			GSM 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
GSM	32.30	32.89	32.32	30.31	30.27	30.12
GPRS (1 slot)	32.30	32.85	32.31	30.22	30.29	30.16
GPRS (2 slots)	31.85	32.31	31.79	29.70	29.78	29.73
GPRS (3 slots)	31.65	31.97	31.48	29.38	29.44	29.41
GPRS (4 slots)	31.25	31.57	31.08	28.94	29.13	29.00
EGPRS (1 slot)	26.68	26.60	26.52	26.29	26.41	26.39
EGPRS (2 slots)	26.27	26.12	26.11	25.83	25.90	25.84
EGPRS (3 slots)	26.03	25.79	25.78	25.53	25.61	25.54
EGPRS (4 slots)	25.86	25.52	25.56	25.23	25.33	25.28

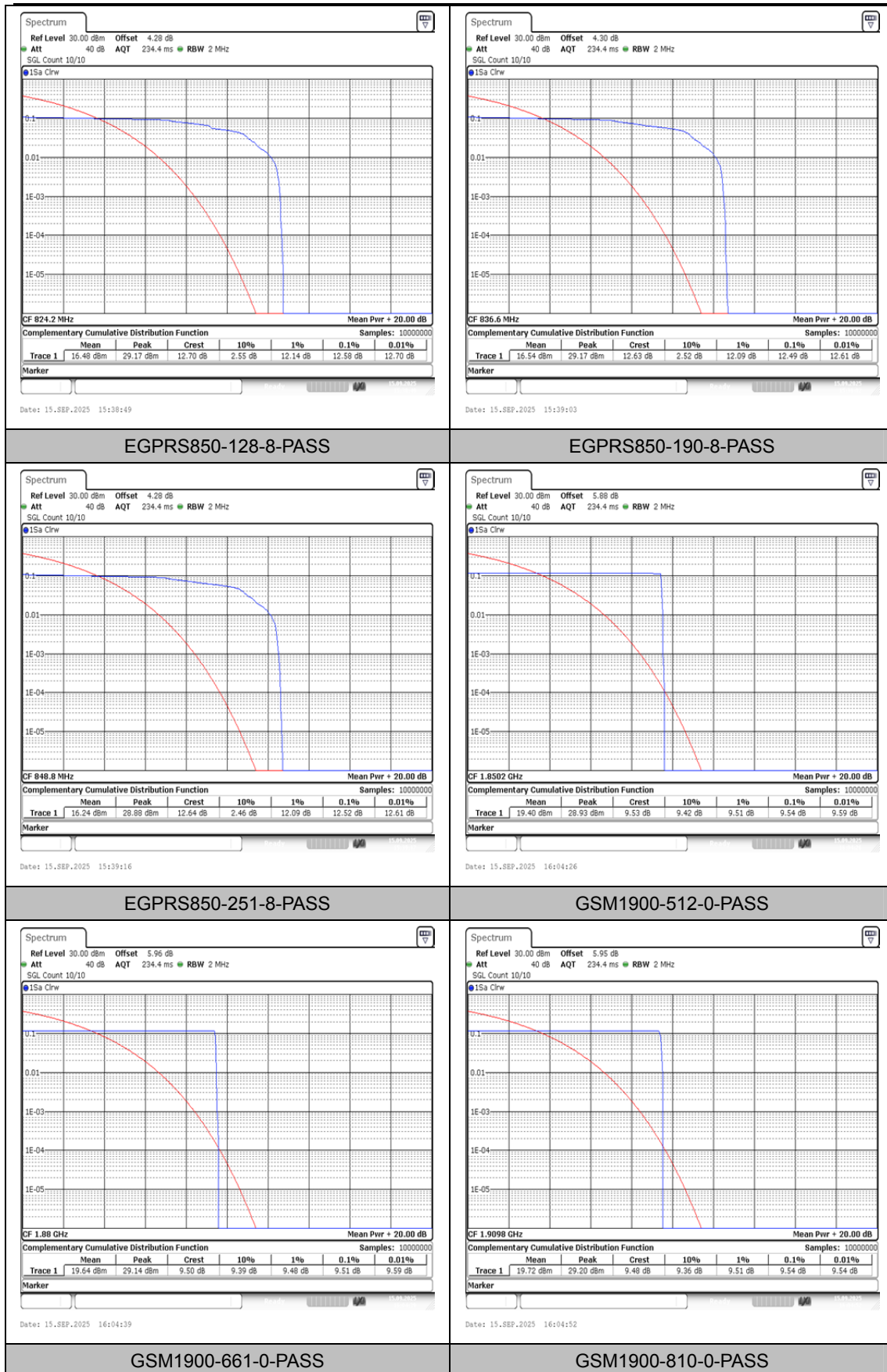
Appendix B: Peak-to-Average Ratio(CCDF)

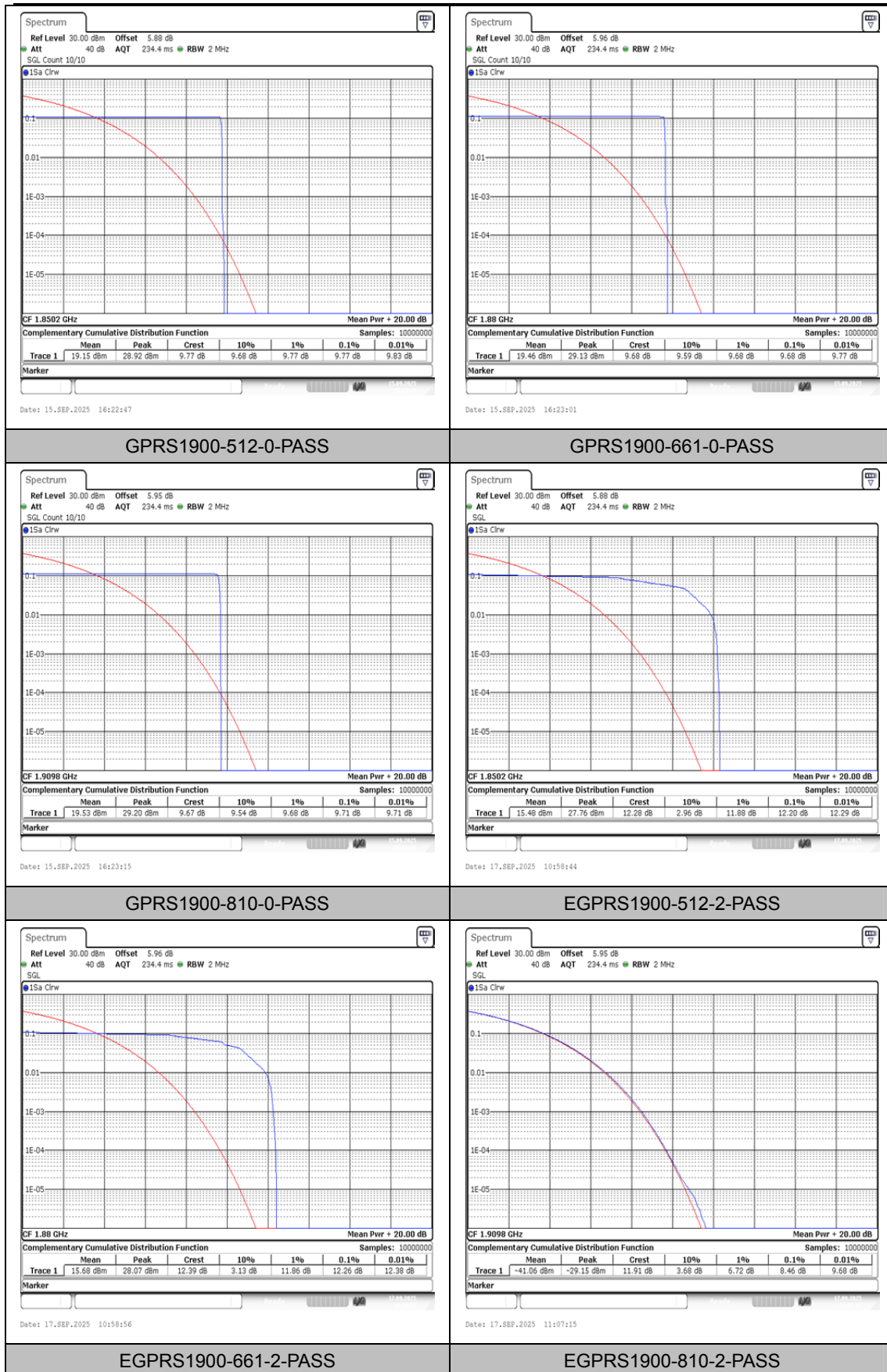
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.51	13	PASS
GSM850	190	9.51	13	PASS
GSM850	251	9.51	13	PASS
GPRS850	128	9.68	13	PASS
GPRS850	190	9.68	13	PASS
GPRS850	251	9.68	13	PASS
EGPRS850	128	12.58	13	PASS
EGPRS850	190	12.49	13	PASS
EGPRS850	251	12.52	13	PASS
GSM1900	512	9.54	13	PASS
GSM1900	661	9.51	13	PASS
GSM1900	810	9.54	13	PASS
GPRS1900	512	9.77	13	PASS
GPRS1900	661	9.68	13	PASS
GPRS1900	810	9.71	13	PASS
EGPRS1900	512	12.20	13	PASS
EGPRS1900	661	12.26	13	PASS
EGPRS1900	810	8.46	13	PASS

Test Graphs





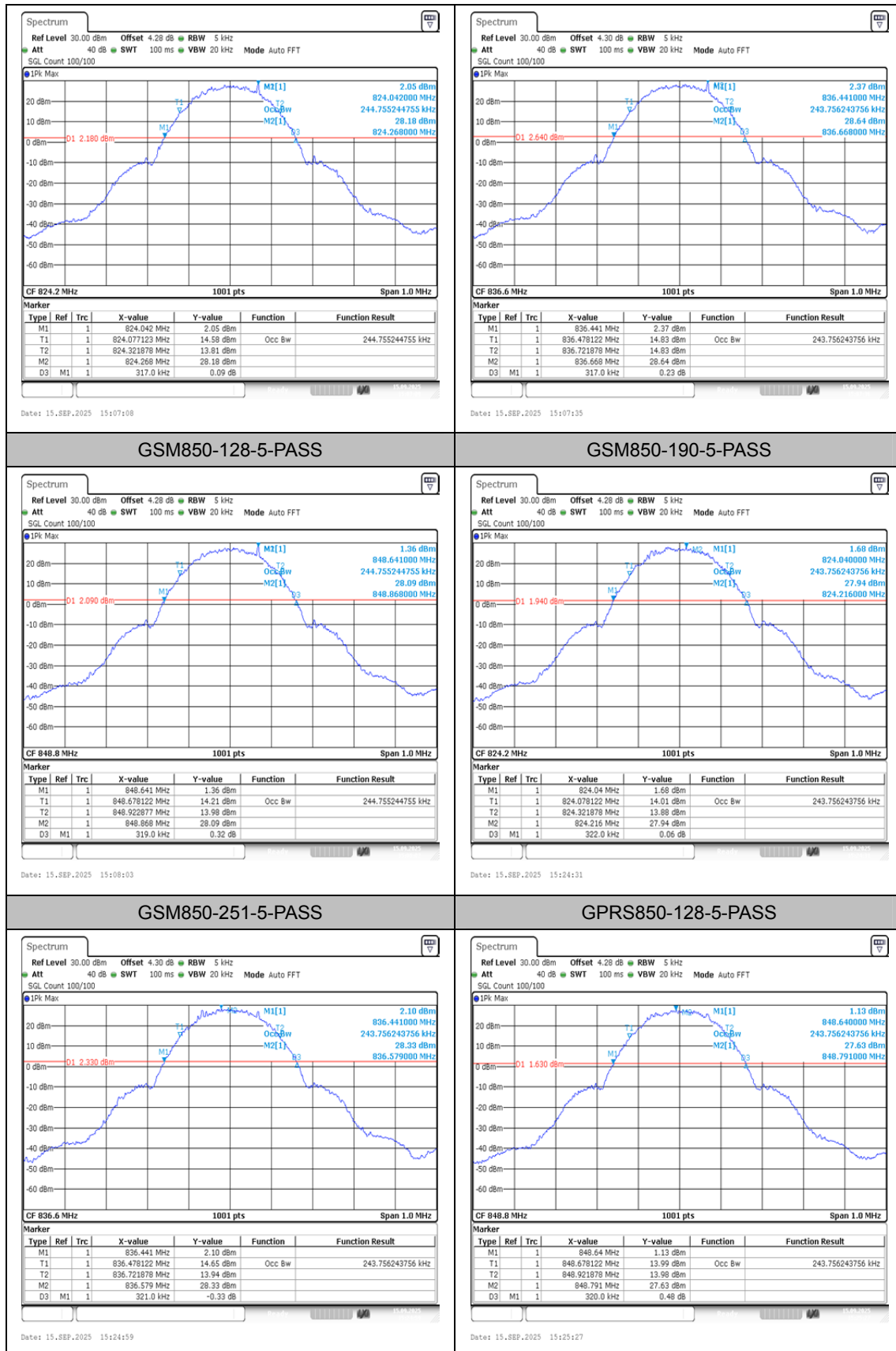


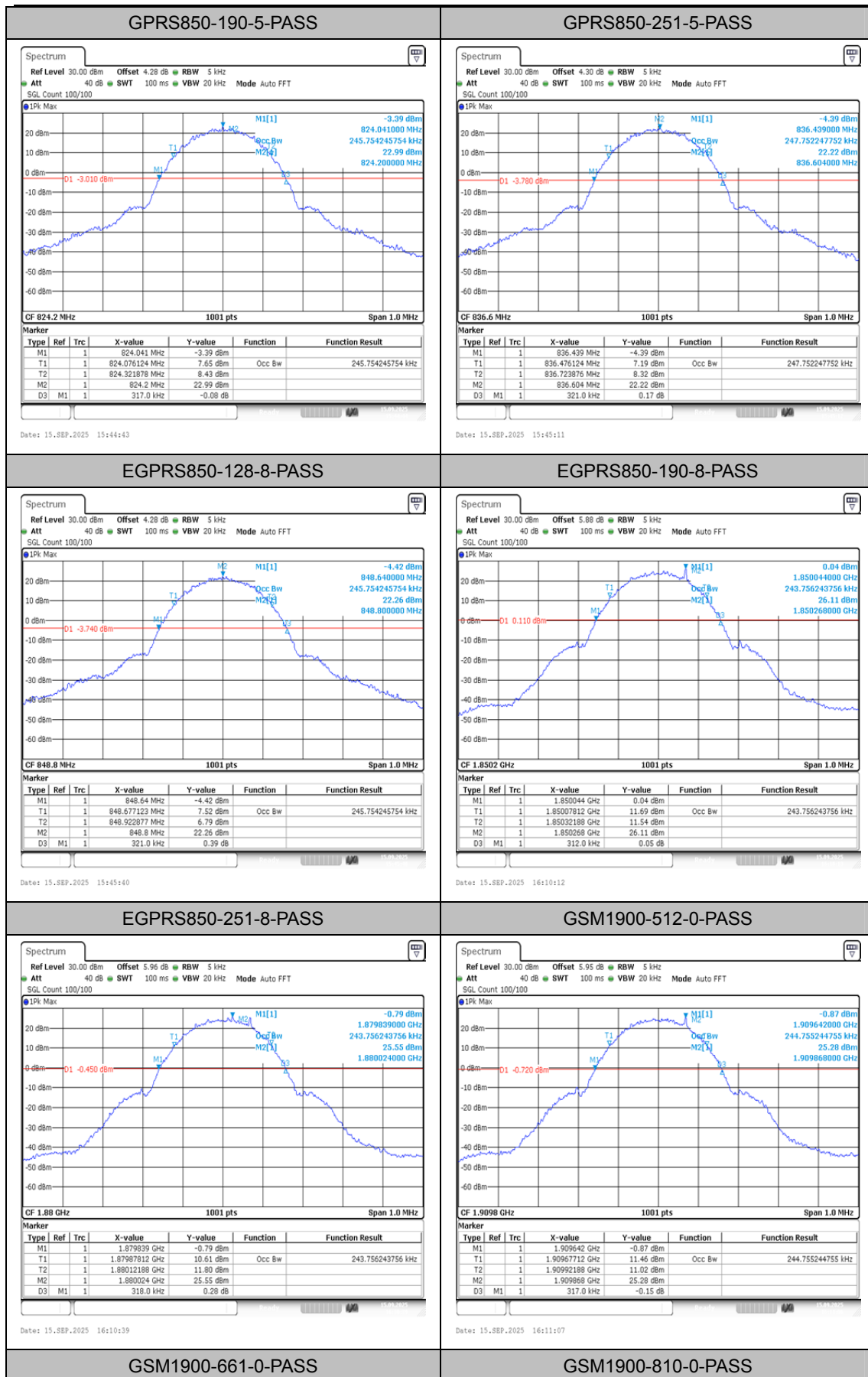
Appendix C: 26dB Bandwidth and Occupied Bandwidth

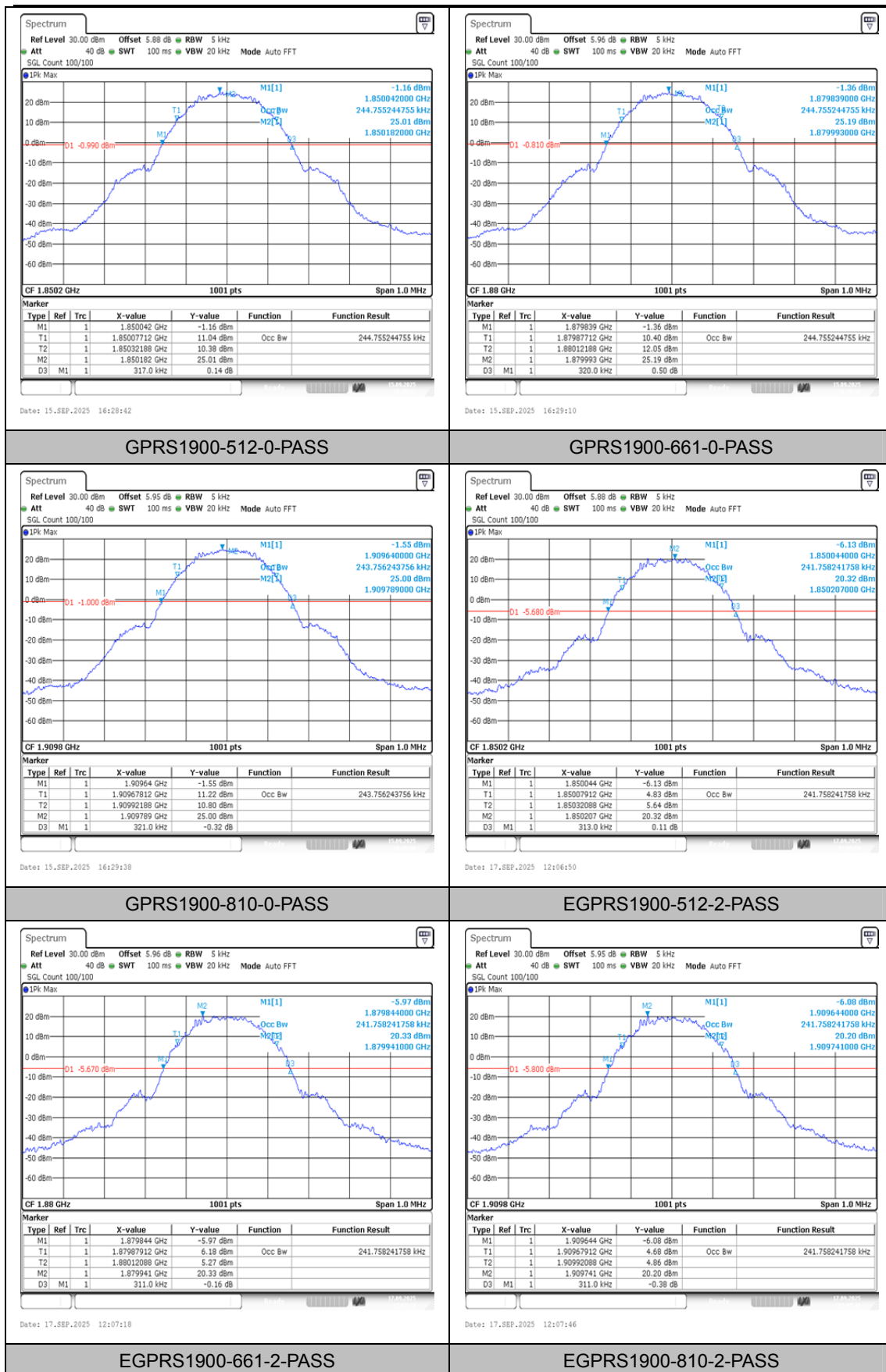
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.245	0.32	---	PASS
GSM850	190	0.244	0.32	---	PASS
GSM850	251	0.245	0.32	---	PASS
GPRS850	128	0.244	0.32	---	PASS
GPRS850	190	0.244	0.32	---	PASS
GPRS850	251	0.244	0.32	---	PASS
EGPRS850	128	0.246	0.32	---	PASS
EGPRS850	190	0.248	0.32	---	PASS
EGPRS850	251	0.246	0.32	---	PASS
GSM1900	512	0.244	0.31	---	PASS
GSM1900	661	0.244	0.32	---	PASS
GSM1900	810	0.245	0.32	---	PASS
GPRS1900	512	0.245	0.32	---	PASS
GPRS1900	661	0.245	0.32	---	PASS
GPRS1900	810	0.244	0.32	---	PASS
EGPRS1900	512	0.242	0.31	---	PASS
EGPRS1900	661	0.242	0.31	---	PASS
EGPRS1900	810	0.242	0.31	---	PASS

Test Graphs





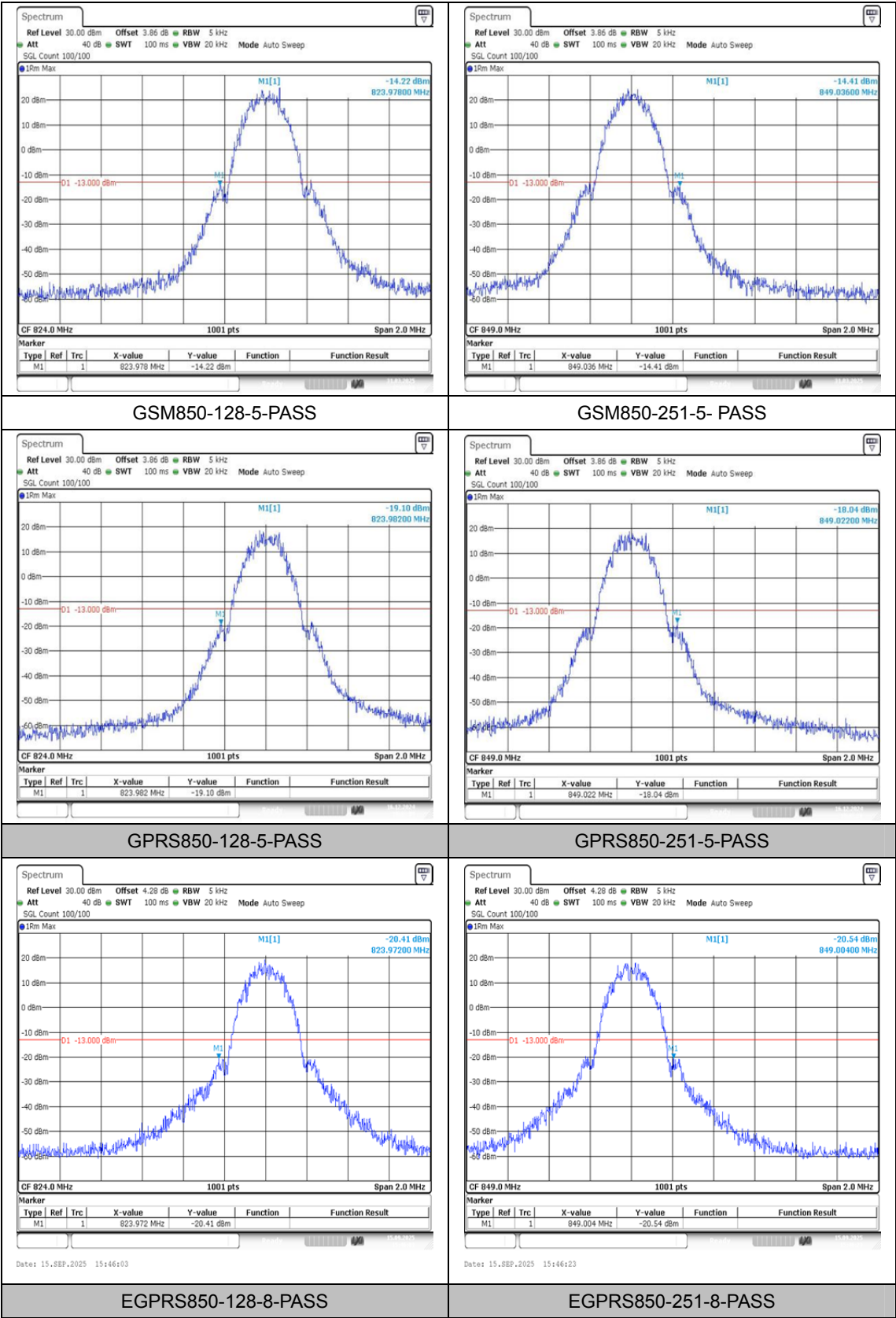


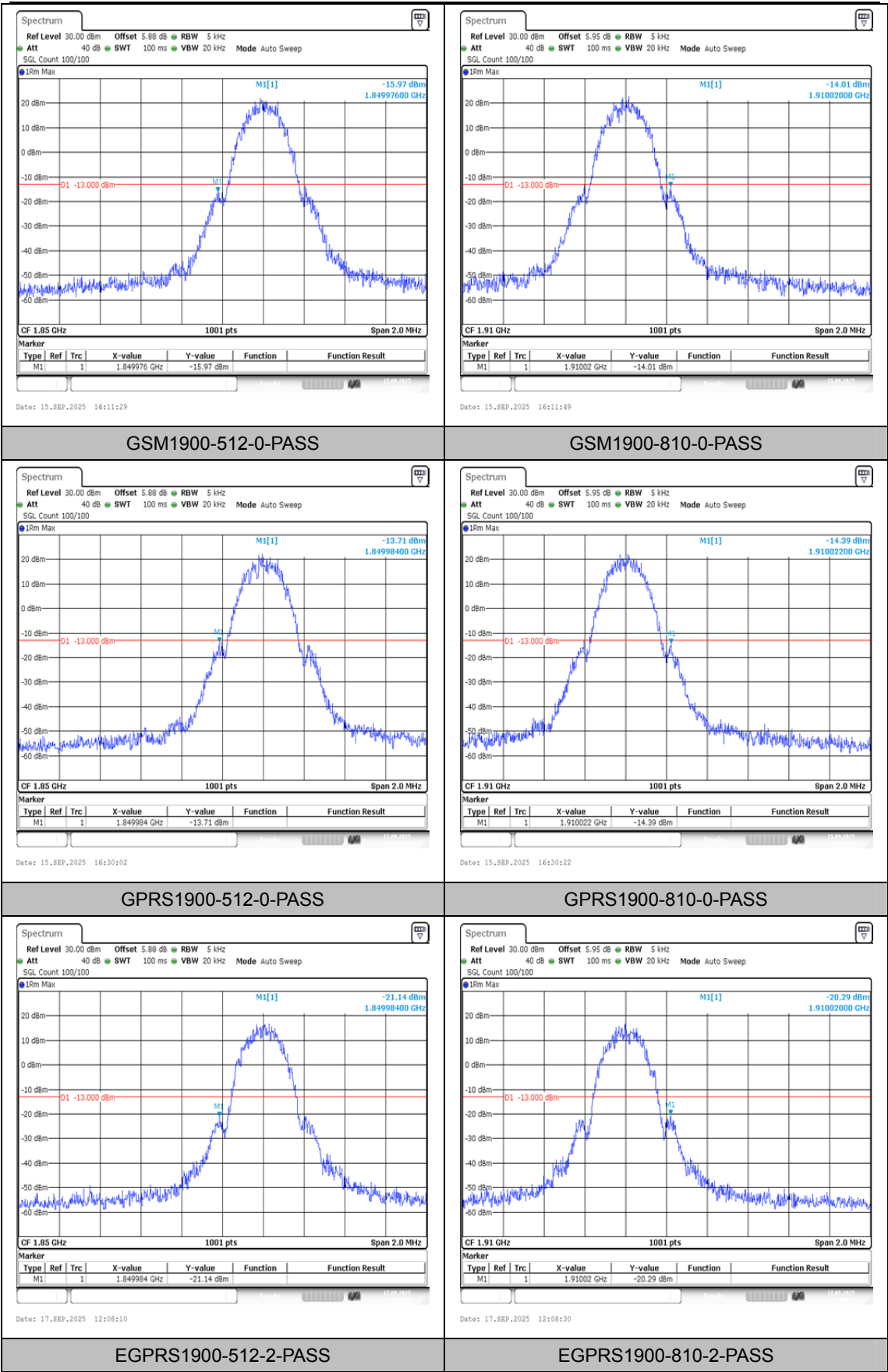
Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Limit(dBm)	Verdict
GSM850	128	824.00	-13	PASS
GSM850	251	849.00	-13	PASS
GPRS850	128	823.97	-13	PASS
GPRS850	251	849.02	-13	PASS
EGPRS850	128	823.97	-13	PASS
EGPRS850	251	849.00	-13	PASS
GSM1900	512	1849.98	-13	PASS
GSM1900	810	1910.02	-13	PASS
GPRS1900	512	1849.98	-13	PASS
GPRS1900	810	1910.02	-13	PASS
EGPRS1900	512	1849.98	-13	PASS
EGPRS1900	810	1910.02	-13	PASS

Test Graphs





Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-73.32	-33	PASS
GSM850	128	0.15~30MHz	0.18	-63.72	-23	PASS
GSM850	128	30~1000MHz	951.69	-49.18	-13	PASS
GSM850	128	1000~10000MHz	1648.43	-35.92	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-74.16	-33	PASS
GSM850	190	0.15~30MHz	0.16	-63.95	-23	PASS
GSM850	190	30~1000MHz	998.35	-49.01	-13	PASS
GSM850	190	1000~10000MHz	2510	-36.05	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-71.9	-33	PASS
GSM850	251	0.15~30MHz	0.15	-63.65	-23	PASS
GSM850	251	30~1000MHz	988.46	-49.15	-13	PASS
GSM850	251	1000~10000MHz	1697.63	-36	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-74.52	-33	PASS
GPRS850	128	0.15~30MHz	0.16	-63.97	-23	PASS
GPRS850	128	30~1000MHz	988.88	-48.54	-13	PASS
GPRS850	128	1000~10000MHz	1648.43	-38.5	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-73.29	-33	PASS
GPRS850	190	0.15~30MHz	0.15	-63.5	-23	PASS
GPRS850	190	30~1000MHz	959.26	-48.89	-13	PASS
GPRS850	190	1000~10000MHz	2509.7	-38.55	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-72.64	-33	PASS
GPRS850	251	0.15~30MHz	0.16	-63.91	-23	PASS
GPRS850	251	30~1000MHz	973.78	-49.29	-13	PASS
GPRS850	251	1000~10000MHz	1697.63	-39.06	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-77.21	-33	PASS
EGPRS850	128	0.15~30MHz	0.16	-63.72	-23	PASS
EGPRS850	128	30~1000MHz	958.84	-49.09	-13	PASS
EGPRS850	128	1000~10000MHz	6559.86	-46.79	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-77.22	-33	PASS
EGPRS850	190	0.15~30MHz	0.15	-64.23	-23	PASS
EGPRS850	190	30~1000MHz	977.82	-49.1	-13	PASS
EGPRS850	190	1000~10000MHz	6609.96	-47.05	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-76.57	-33	PASS
EGPRS850	251	0.15~30MHz	0.18	-64.29	-23	PASS
EGPRS850	251	30~1000MHz	991.59	-48.88	-13	PASS
EGPRS850	251	1000~10000MHz	1697.63	-45.4	-13	PASS

GSM1900	512	0.009~0.15MHz	0.01	-70.79	-43	PASS
GSM1900	512	0.15~30MHz	0.16	-61.82	-33	PASS
GSM1900	512	30~1000MHz	963.25	-45.67	-13	PASS
GSM1900	512	1000~3000MHz	2946.47	-34.76	-13	PASS
GSM1900	512	3000~18000MHz	3700.23	-33.03	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-68.9	-43	PASS
GSM1900	661	0.15~30MHz	0.15	-63.12	-33	PASS
GSM1900	661	30~1000MHz	919.54	-45.66	-13	PASS
GSM1900	661	1000~3000MHz	2968.07	-34.8	-13	PASS
GSM1900	661	3000~18000MHz	5640.16	-43.37	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-70.86	-43	PASS
GSM1900	810	0.15~30MHz	0.16	-63.74	-33	PASS
GSM1900	810	30~1000MHz	987.34	-45.71	-13	PASS
GSM1900	810	1000~3000MHz	2994.13	-34.76	-13	PASS
GSM1900	810	3000~18000MHz	6563.63	-44.14	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-70.45	-43	PASS
GPRS1900	512	0.15~30MHz	0.26	-63.56	-33	PASS
GPRS1900	512	30~1000MHz	980.94	-45.69	-13	PASS
GPRS1900	512	1000~3000MHz	2941.47	-34.79	-13	PASS
GPRS1900	512	3000~18000MHz	3700.23	-34.62	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-69.27	-43	PASS
GPRS1900	661	0.15~30MHz	0.24	-63.99	-33	PASS
GPRS1900	661	30~1000MHz	959.08	-45.6	-13	PASS
GPRS1900	661	1000~3000MHz	2977.8	-34.81	-13	PASS
GPRS1900	661	3000~18000MHz	3759.72	-41.51	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-69.24	-43	PASS
GPRS1900	810	0.15~30MHz	0.16	-64.43	-33	PASS
GPRS1900	810	30~1000MHz	979.29	-45.71	-13	PASS
GPRS1900	810	1000~3000MHz	2886.87	-34.87	-13	PASS
GPRS1900	810	3000~18000MHz	3819.22	-37.43	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.02	-72.3	-43	PASS
EGPRS1900	512	0.15~30MHz	0.15	-63.61	-33	PASS
EGPRS1900	512	30~1000MHz	910.49	-45.55	-13	PASS
EGPRS1900	512	1000~3000MHz	2970.07	-34.89	-13	PASS
EGPRS1900	512	3000~18000MHz	3700.23	-43.54	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-72.59	-43	PASS
EGPRS1900	661	0.15~30MHz	0.15	-63.74	-33	PASS
EGPRS1900	661	30~1000MHz	981.55	-45.65	-13	PASS
EGPRS1900	661	1000~3000MHz	2972.07	-34.79	-13	PASS
EGPRS1900	661	3000~18000MHz	3759.72	-43.76	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-73.96	-43	PASS
EGPRS1900	810	0.15~30MHz	0.15	-64.16	-33	PASS

EGPRS1900	810	30~1000MHz	981.49	-45.5	-13	PASS
EGPRS1900	810	1000~3000MHz	2946.87	-34.82	-13	PASS
EGPRS1900	810	3000~18000MHz	3819.72	-42.63	-13	PASS

Test Graphs

