

Appendix for GSM1900

Product Name: HTC Smartphone
Model No: Wildfire E7

Appendix A: Average Power Output Data

Test Result

Band	Channel	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.93	33.00	PASS
GSM1900	661	30.65	33.00	PASS
GSM1900	810	30.16	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	29.82	33.00	PASS
GPRS1900	512	2	28.92	33.00	PASS
GPRS1900	512	3	26.86	33.00	PASS
GPRS1900	512	4	25.70	33.00	PASS
GPRS1900	661	1	29.47	33.00	PASS
GPRS1900	661	2	28.57	33.00	PASS
GPRS1900	661	3	26.48	33.00	PASS
GPRS1900	661	4	25.39	33.00	PASS
GPRS1900	810	1	28.74	33.00	PASS
GPRS1900	810	2	27.81	33.00	PASS
GPRS1900	810	3	25.72	33.00	PASS
GPRS1900	810	4	24.61	33.00	PASS

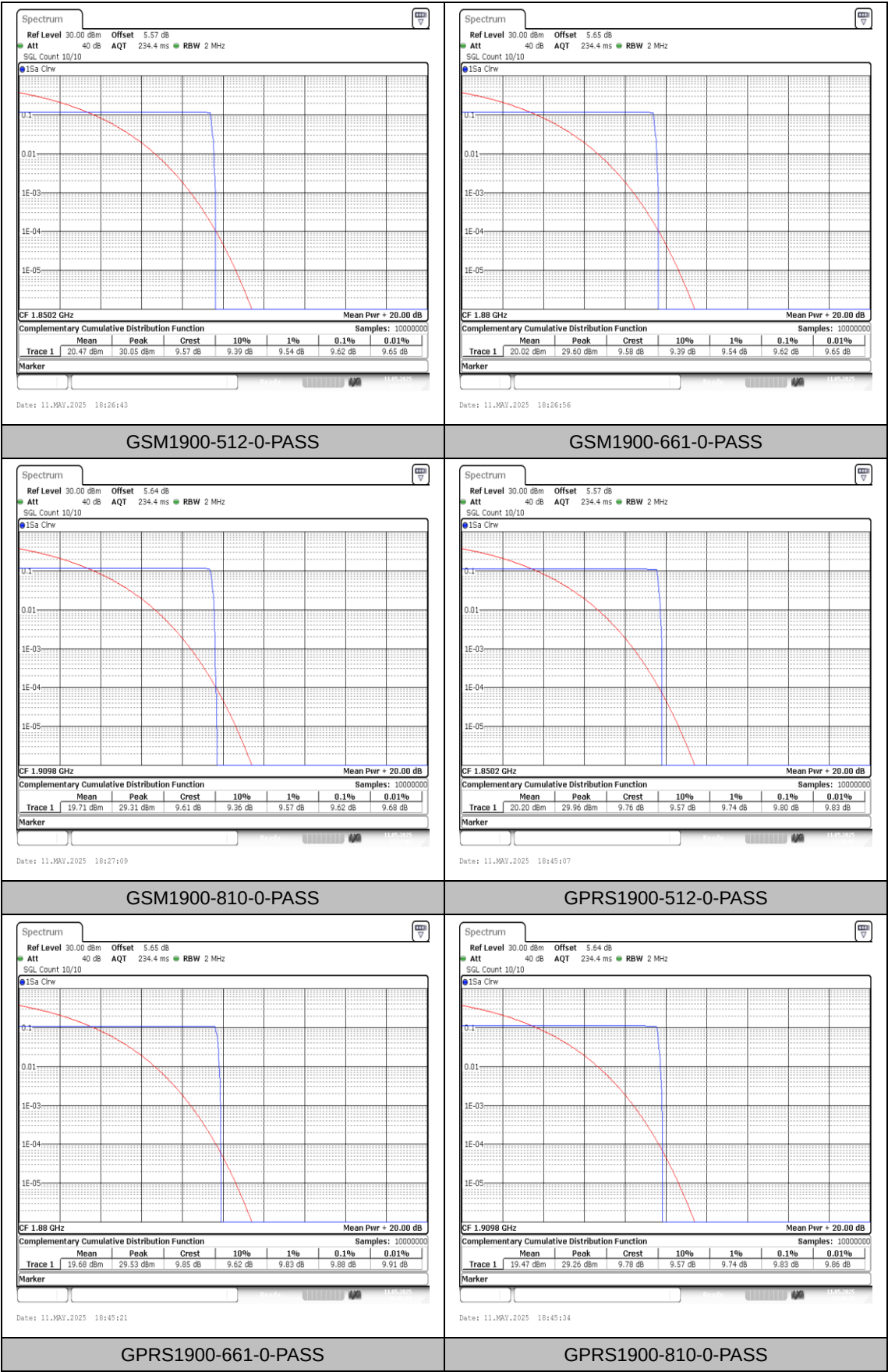
Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	28.68	33.00	PASS
EGPRS1900	512	2	27.38	33.00	PASS
EGPRS1900	512	3	26.22	33.00	PASS

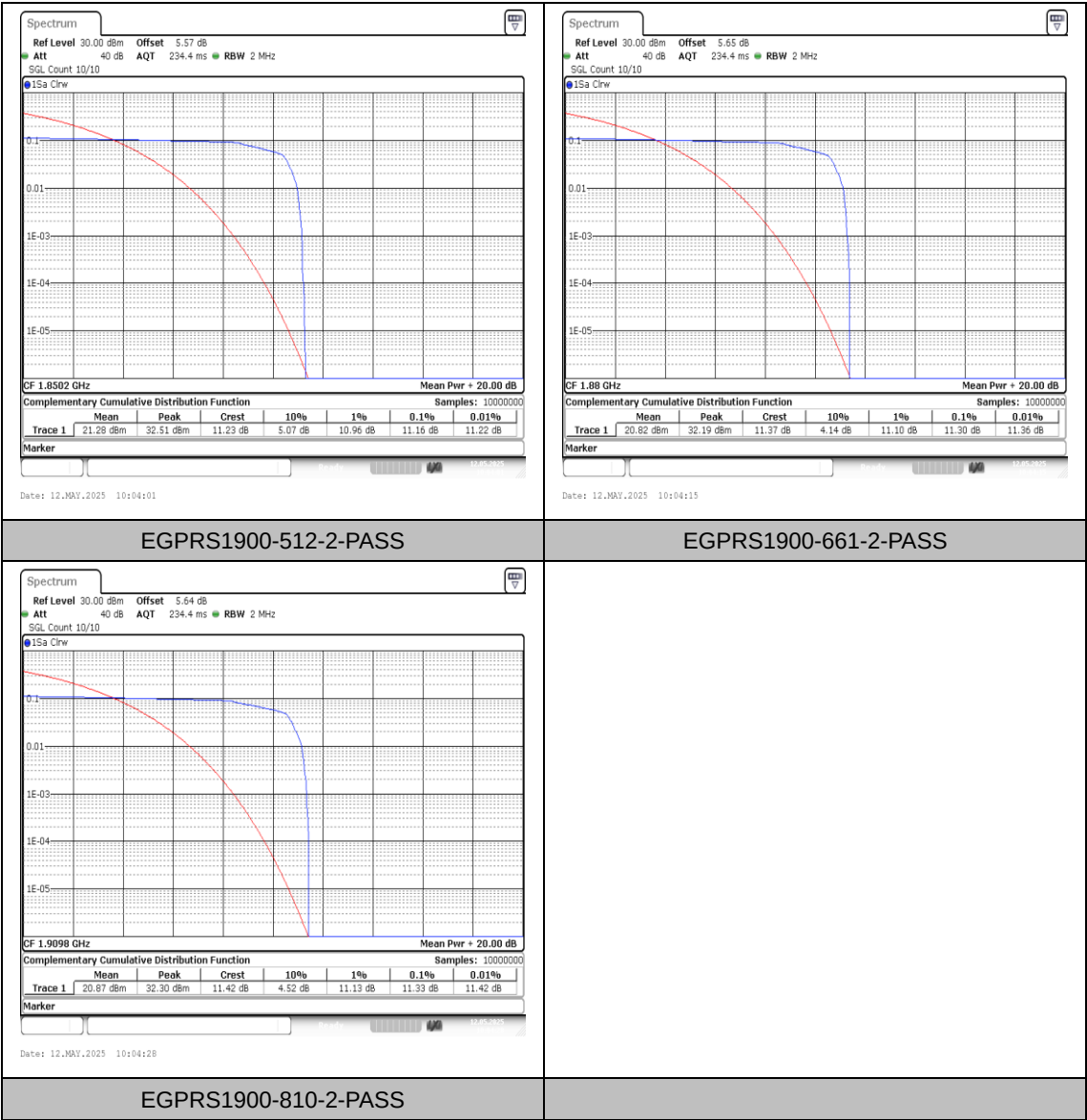
EGPRS19 00	512	4	25.59	33.00	PASS
EGPRS19 00	661	1	28.76	33.00	PASS
EGPRS19 00	661	2	27.21	33.00	PASS
EGPRS19 00	661	3	26.10	33.00	PASS
EGPRS19 00	661	4	25.42	33.00	PASS
EGPRS19 00	810	1	28.42	33.00	PASS
EGPRS19 00	810	2	27.67	33.00	PASS
EGPRS19 00	810	3	26.45	33.00	PASS
EGPRS19 00	810	4	25.72	33.00	PASS

Appendix B: Peak-to-Average Ratio(CCDF)**Test Result**

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	9.62	13	PASS
GSM1900	661	9.62	13	PASS
GSM1900	810	9.62	13	PASS
GPRS1900	512	9.80	13	PASS
GPRS1900	661	9.88	13	PASS
GPRS1900	810	9.83	13	PASS
EGPRS1900	512	11.16	13	PASS
EGPRS1900	661	11.30	13	PASS
EGPRS1900	810	11.33	13	PASS

Test Graphs



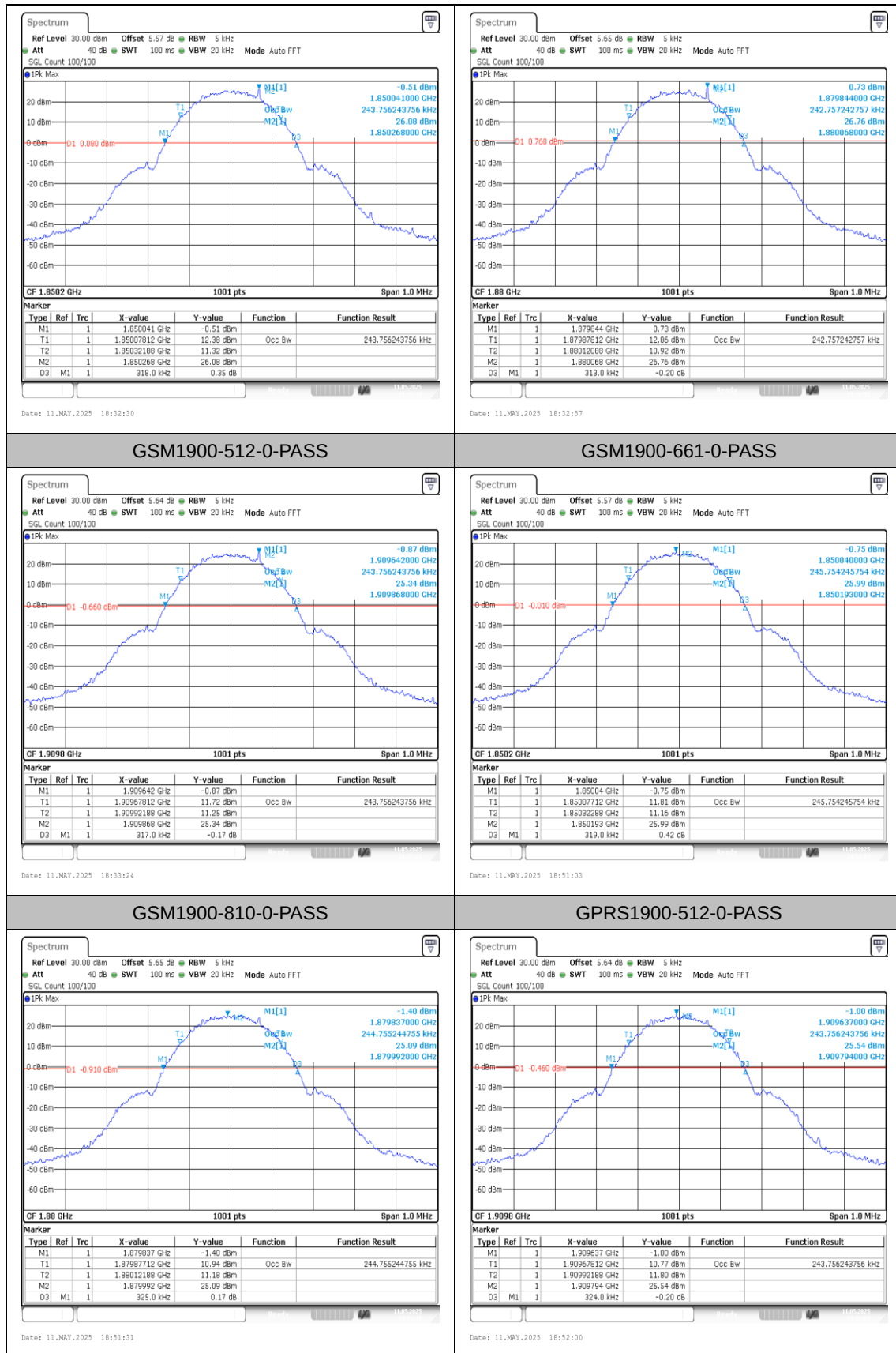


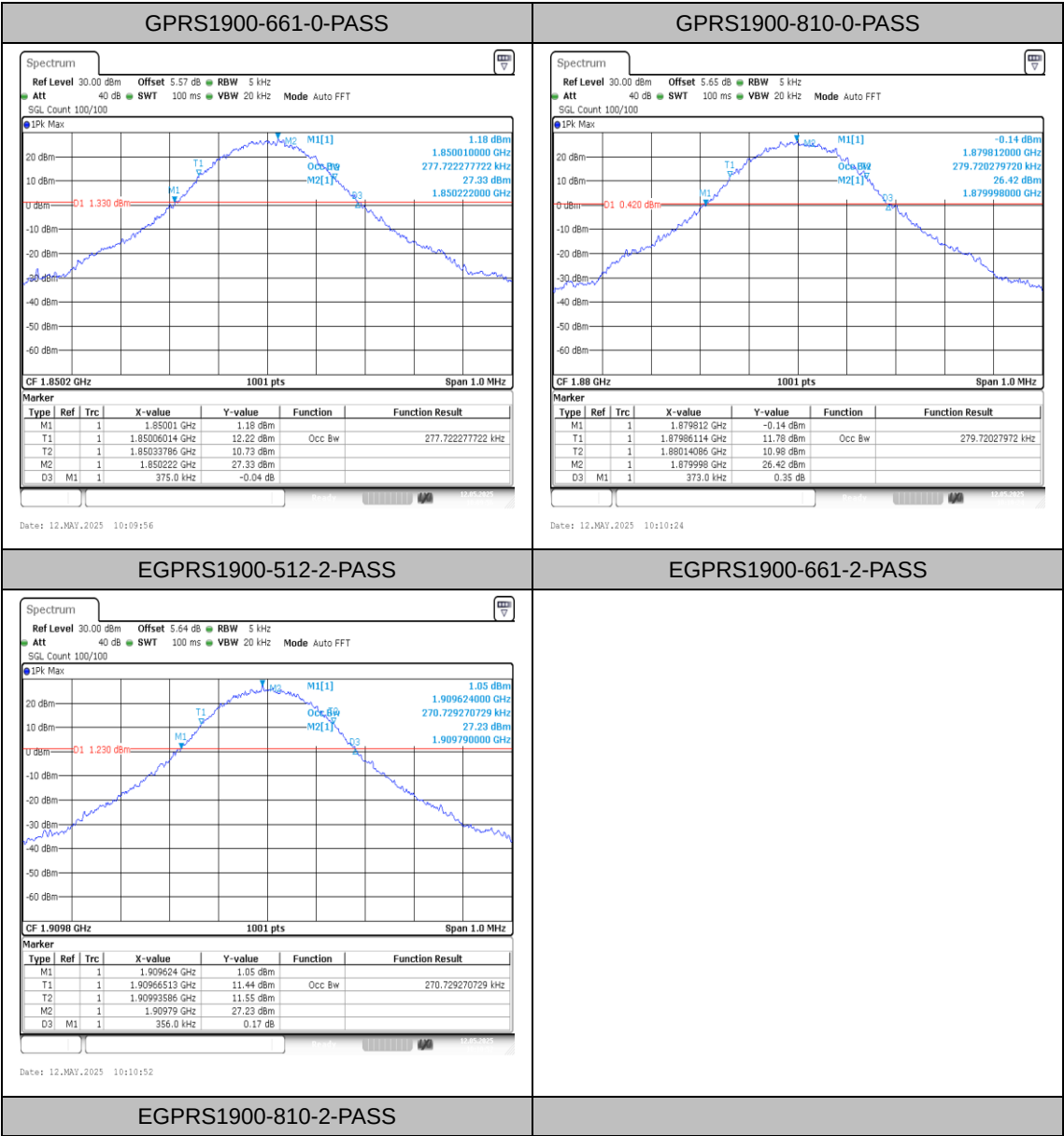
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.244	0.32	---	PASS
GSM1900	661	0.243	0.31	---	PASS
GSM1900	810	0.244	0.32	---	PASS
GPRS1900	512	0.246	0.32	---	PASS
GPRS1900	661	0.245	0.33	---	PASS
GPRS1900	810	0.244	0.32	---	PASS
EGPRS1900	512	0.278	0.38	---	PASS
EGPRS1900	661	0.28	0.37	---	PASS
EGPRS1900	810	0.271	0.36	---	PASS

Test Graphs



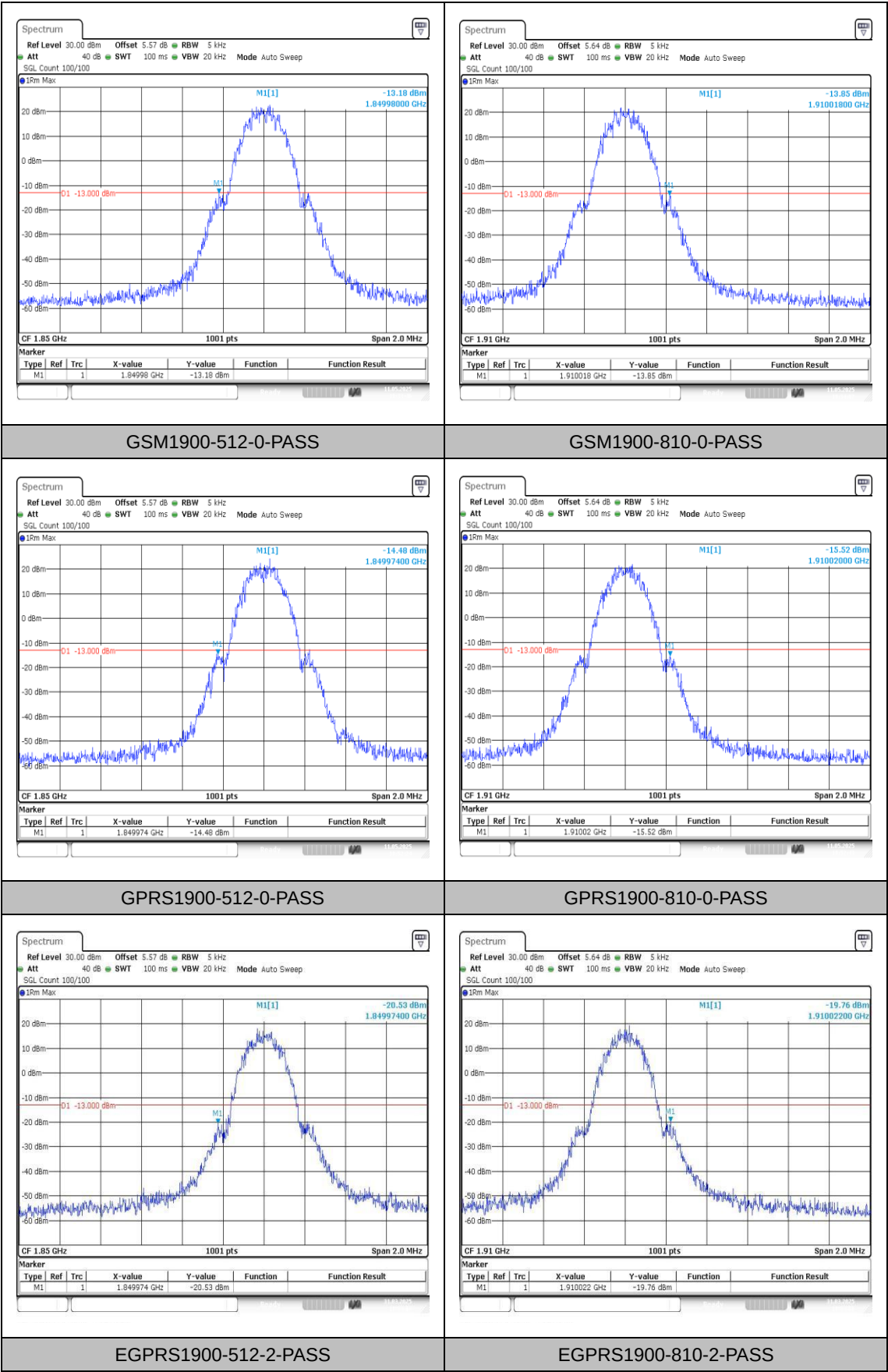


Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1849.98	-13.18	-13	PASS
GSM1900	810	1910.02	-13.85	-13	PASS
GPRS1900	512	1849.97	-14.48	-13	PASS
GPRS1900	810	1910.02	-15.52	-13	PASS
EGPRS1900	512	1850.00	-20.53	-13	PASS
EGPRS1900	810	1910.01	-19.76	-13	PASS

Test Graphs



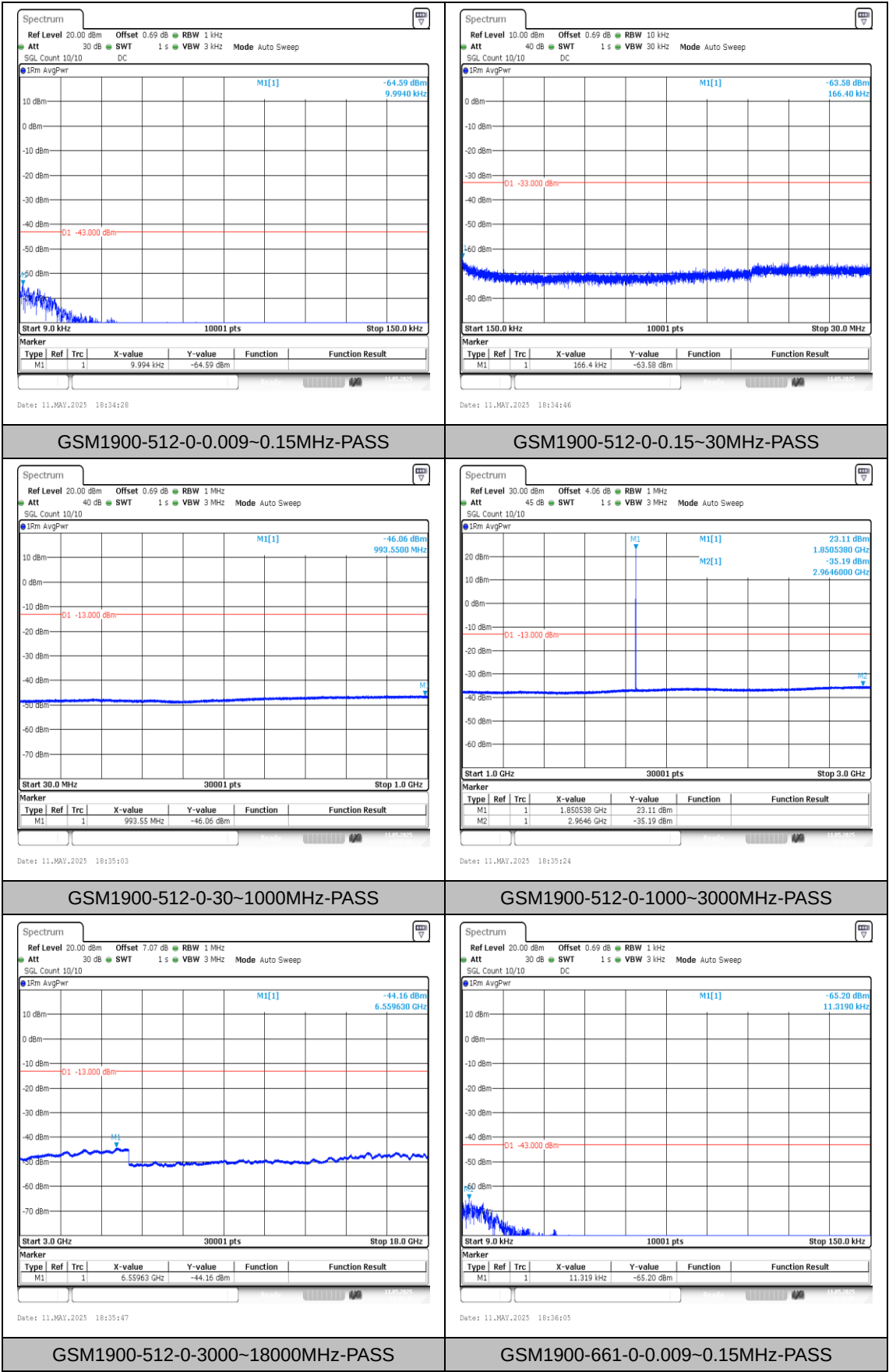
Appendix E: Conducted Spurious Emission

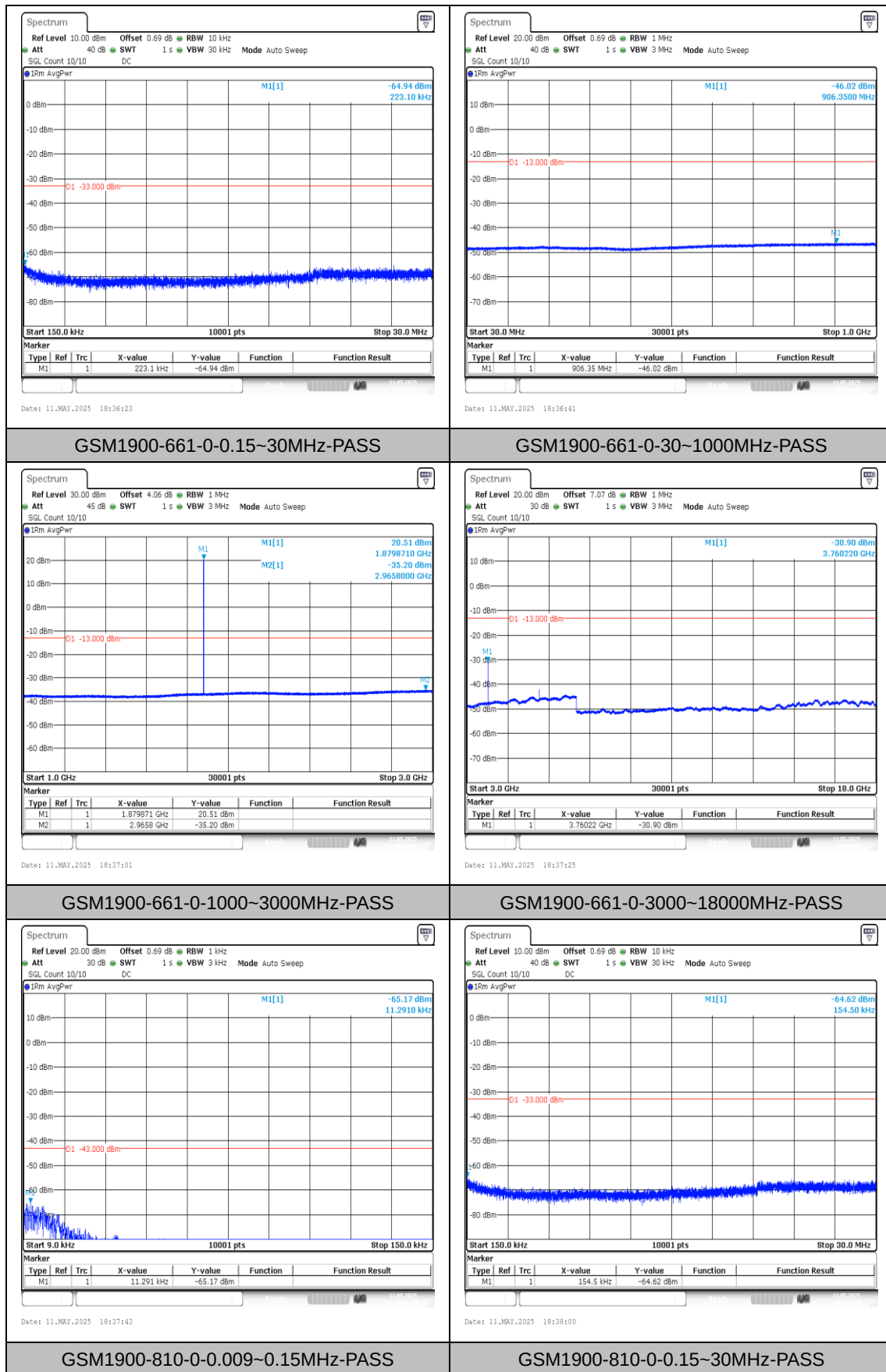
Test Result

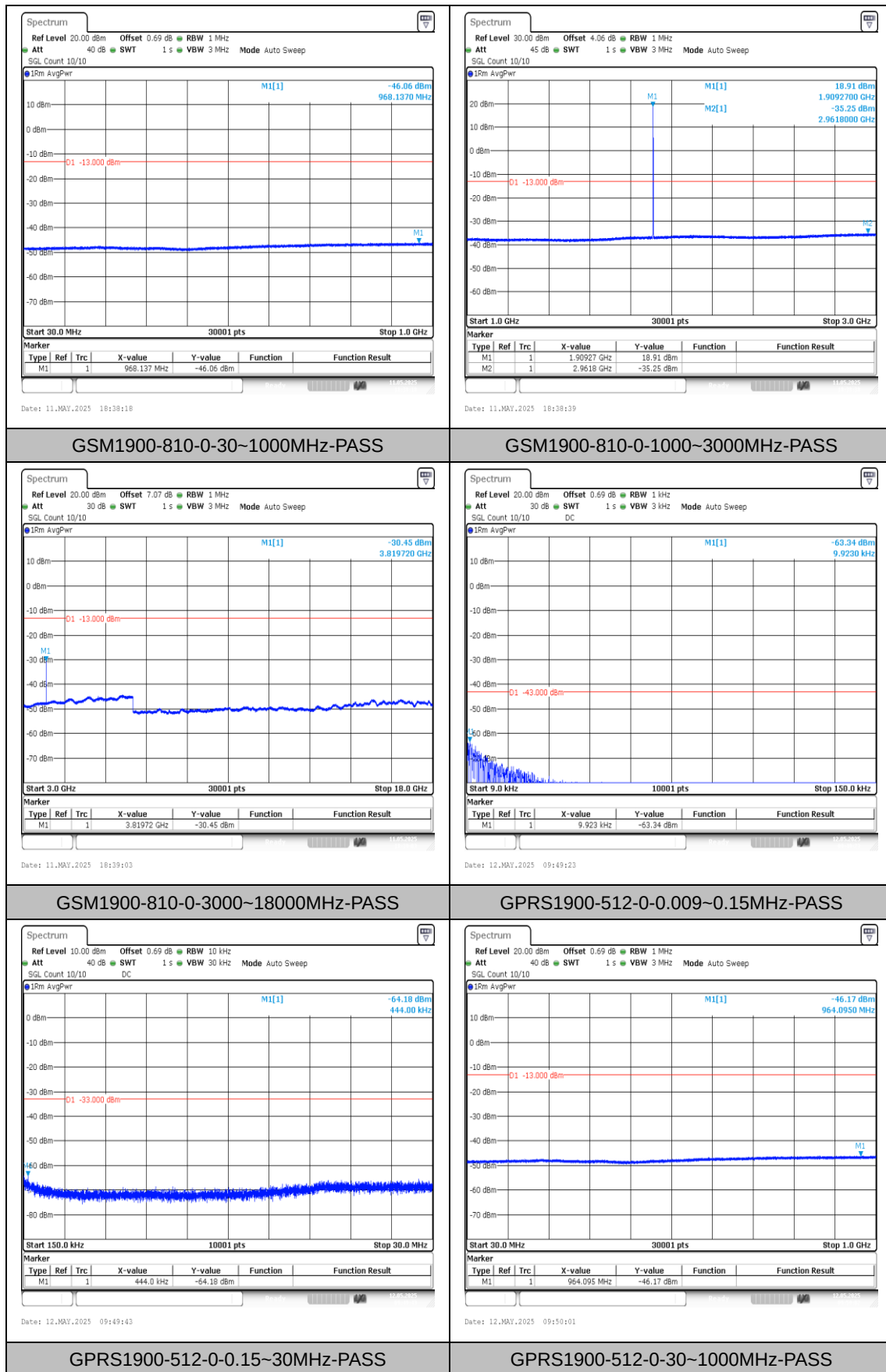
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-64.59	-43	PASS
GSM1900	512	0.15~30MHz	0.17	-63.58	-33	PASS
GSM1900	512	30~1000MHz	993.55	-46.06	-13	PASS
GSM1900	512	1000~3000MHz	2964.6	-35.19	-13	PASS
GSM1900	512	3000~18000MHz	6559.63	-44.16	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-65.2	-43	PASS
GSM1900	661	0.15~30MHz	0.22	-64.94	-33	PASS
GSM1900	661	30~1000MHz	906.35	-46.02	-13	PASS
GSM1900	661	1000~3000MHz	2965.8	-35.2	-13	PASS
GSM1900	661	3000~18000MHz	3760.22	-30.9	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-65.17	-43	PASS
GSM1900	810	0.15~30MHz	0.15	-64.62	-33	PASS
GSM1900	810	30~1000MHz	968.14	-46.06	-13	PASS
GSM1900	810	1000~3000MHz	2961.8	-35.25	-13	PASS
GSM1900	810	3000~18000MHz	3819.72	-30.45	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-63.34	-43	PASS
GPRS1900	512	0.15~30MHz	0.44	-64.18	-33	PASS
GPRS1900	512	30~1000MHz	964.1	-46.17	-13	PASS
GPRS1900	512	1000~3000MHz	2970.87	-35.09	-13	PASS
GPRS1900	512	3000~18000MHz	6624.13	-44.22	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-64.92	-43	PASS
GPRS1900	661	0.15~30MHz	0.18	-63.04	-33	PASS
GPRS1900	661	30~1000MHz	963.19	-46.03	-13	PASS
GPRS1900	661	1000~3000MHz	2959.4	-34.99	-13	PASS
GPRS1900	661	3000~18000MHz	3760.22	-34.96	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-65.96	-43	PASS
GPRS1900	810	0.15~30MHz	0.16	-61.96	-33	PASS
GPRS1900	810	30~1000MHz	916.47	-46.16	-13	PASS
GPRS1900	810	1000~3000MHz	2997.2	-35.02	-13	PASS
GPRS1900	810	3000~18000MHz	5729.16	-43.74	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.01	-58.96	-43	PASS
EGPRS1900	512	0.15~30MHz	0.44	-63.12	-33	PASS
EGPRS1900	512	30~1000MHz	938.26	-46.09	-13	PASS
EGPRS1900	512	1000~3000MHz	2984.47	-35.22	-13	PASS
EGPRS1900	512	3000~18000MHz	3700.23	-29.29	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.02	-59.73	-43	PASS

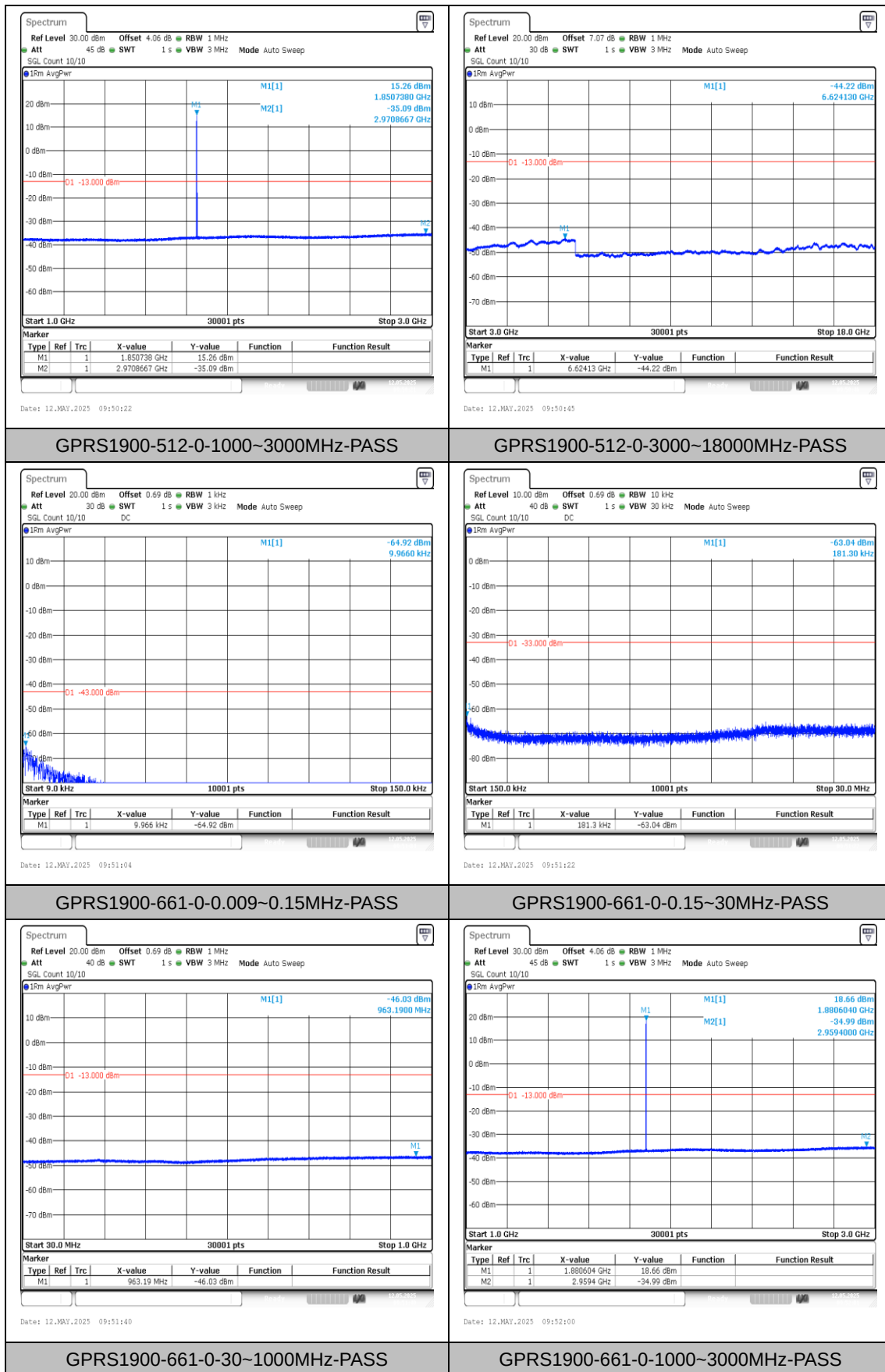
EGPRS1900	661	0.15~30MHz	0.45	-63.67	-33	PASS
EGPRS1900	661	30~1000MHz	927.2	-46.08	-13	PASS
EGPRS1900	661	1000~3000MHz	2940.07	-35.23	-13	PASS
EGPRS1900	661	3000~18000MHz	6568.63	-44.22	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-60.5	-43	PASS
EGPRS1900	810	0.15~30MHz	0.15	-64.41	-33	PASS
EGPRS1900	810	30~1000MHz	972.86	-46.13	-13	PASS
EGPRS1900	810	1000~3000MHz	2933.6	-35.16	-13	PASS
EGPRS1900	810	3000~18000MHz	3819.22	-34.7	-13	PASS

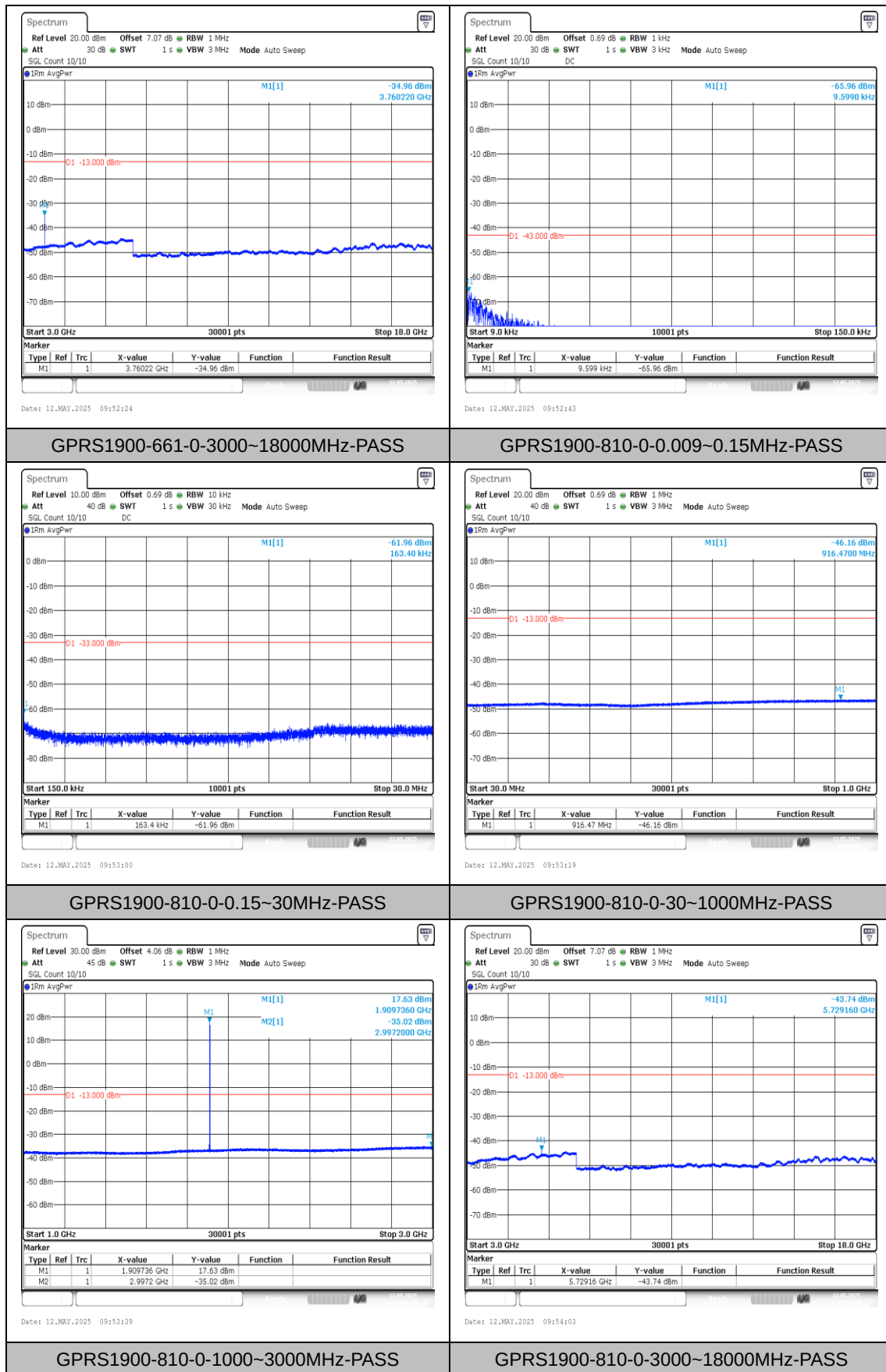
Test Graphs

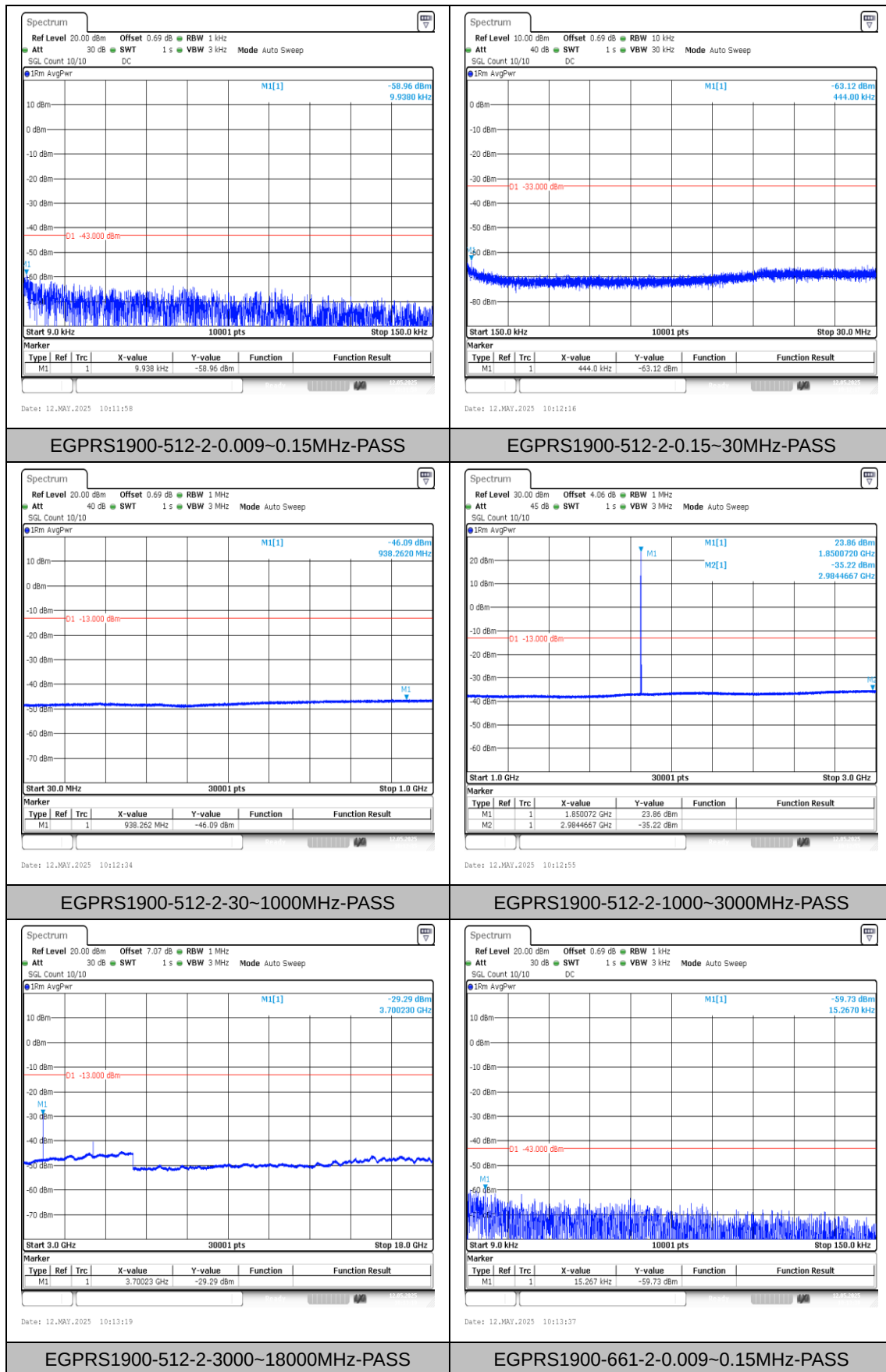


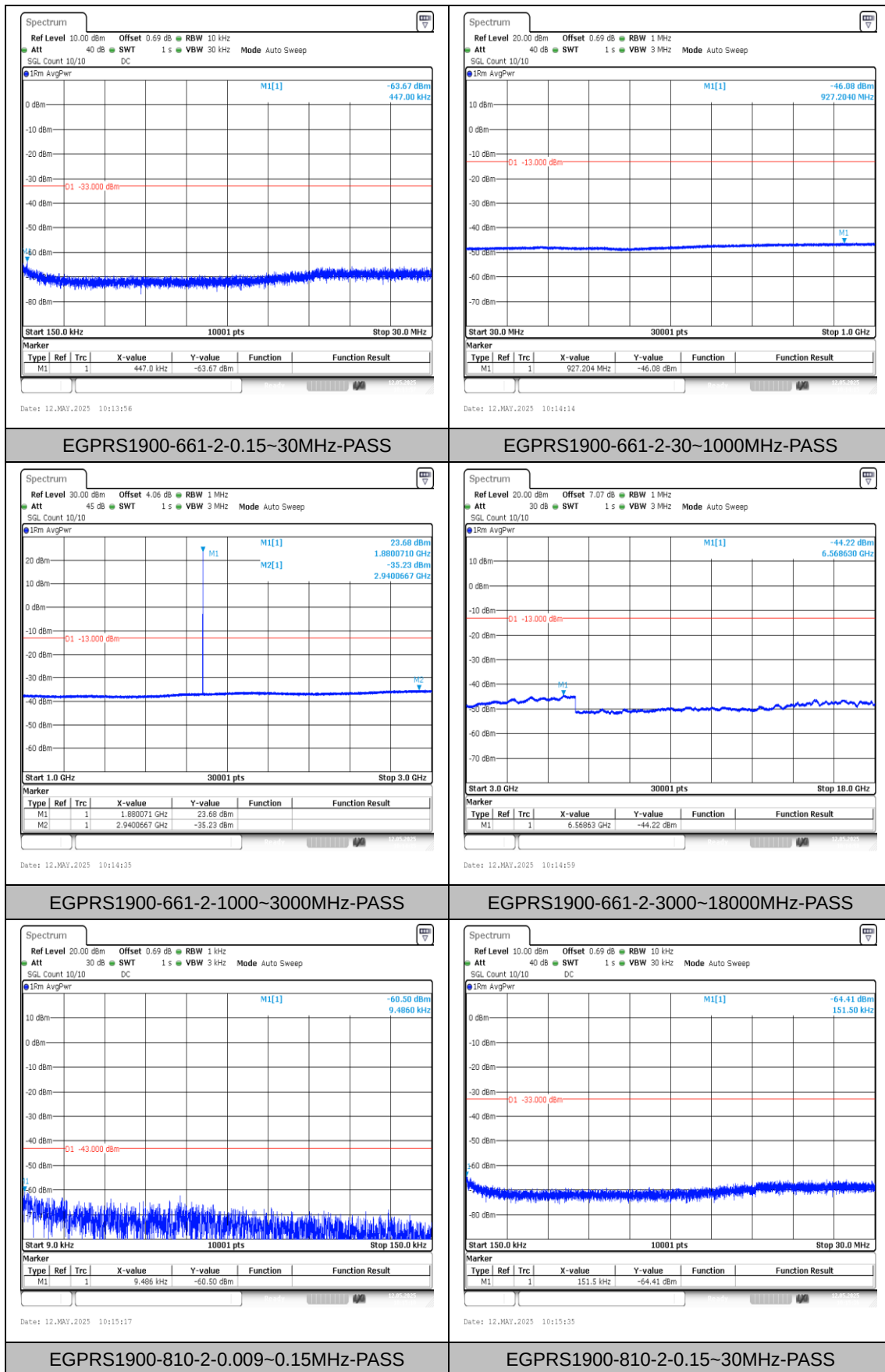


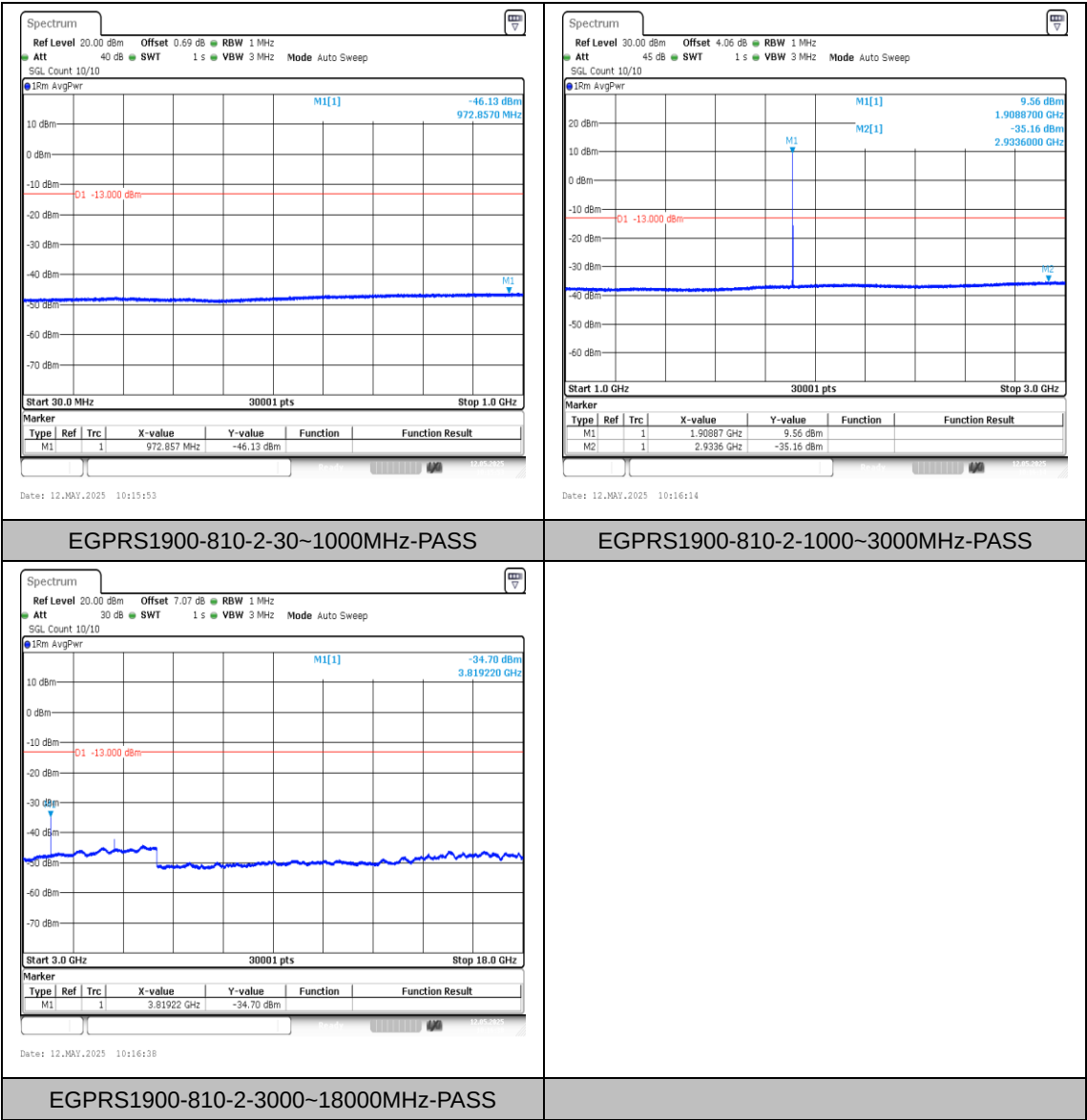












Appendix F: Frequency Stability

Test Result

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	19.92	0.010766	±2.5	PASS
GSM1900	512	NV	-20	24.50	0.013242	±2.5	PASS
GSM1900	512	NV	-10	16.27	0.008794	±2.5	PASS
GSM1900	512	NV	0	14.92	0.008064	±2.5	PASS
GSM1900	512	NV	10	11.53	0.006232	±2.5	PASS
GSM1900	512	NV	20	0.97	0.000524	±2.5	PASS
GSM1900	512	NV	30	19.11	0.010329	±2.5	PASS
GSM1900	512	NV	40	21.60	0.011674	±2.5	PASS
GSM1900	512	NV	50	5.39	0.002913	±2.5	PASS
GSM1900	661	NV	-30	22.50	0.011968	±2.5	PASS
GSM1900	661	NV	-20	18.73	0.009963	±2.5	PASS
GSM1900	661	NV	-10	24.96	0.013277	±2.5	PASS
GSM1900	661	NV	0	12.79	0.006803	±2.5	PASS
GSM1900	661	NV	10	18.08	0.009617	±2.5	PASS
GSM1900	661	NV	20	12.40	0.006596	±2.5	PASS
GSM1900	661	NV	30	16.01	0.008516	±2.5	PASS
GSM1900	661	NV	40	15.17	0.008069	±2.5	PASS
GSM1900	661	NV	50	15.50	0.008245	±2.5	PASS
GSM1900	810	NV	-30	20.53	0.010750	±2.5	PASS
GSM1900	810	NV	-20	13.75	0.007200	±2.5	PASS
GSM1900	810	NV	-10	20.53	0.010750	±2.5	PASS
GSM1900	810	NV	0	18.18	0.009519	±2.5	PASS
GSM1900	810	NV	10	12.01	0.006289	±2.5	PASS
GSM1900	810	NV	20	16.72	0.008755	±2.5	PASS
GSM1900	810	NV	30	19.86	0.010399	±2.5	PASS
GSM1900	810	NV	40	11.46	0.006001	±2.5	PASS
GSM1900	810	NV	50	19.24	0.010074	±2.5	PASS
GPRS1900	512	NV	-30	14.85	0.008026	±2.5	PASS
GPRS1900	512	NV	-20	26.83	0.014501	±2.5	PASS
GPRS1900	512	NV	-10	28.25	0.015269	±2.5	PASS
GPRS1900	512	NV	0	30.25	0.016350	±2.5	PASS
GPRS1900	512	NV	10	27.31	0.014761	±2.5	PASS
GPRS1900	512	NV	20	28.70	0.015512	±2.5	PASS
GPRS1900	512	NV	30	29.38	0.015879	±2.5	PASS

GPRS1900	512	NV	40	24.41	0.013193	±2.5	PASS
GPRS1900	512	NV	50	28.51	0.015409	±2.5	PASS
GPRS1900	661	NV	-30	14.82	0.007883	±2.5	PASS
GPRS1900	661	NV	-20	16.76	0.008915	±2.5	PASS
GPRS1900	661	NV	-10	24.09	0.012814	±2.5	PASS
GPRS1900	661	NV	0	29.57	0.015729	±2.5	PASS
GPRS1900	661	NV	10	23.34	0.012415	±2.5	PASS
GPRS1900	661	NV	20	22.79	0.012122	±2.5	PASS
GPRS1900	661	NV	30	29.35	0.015612	±2.5	PASS
GPRS1900	661	NV	40	26.41	0.014048	±2.5	PASS
GPRS1900	661	NV	50	19.18	0.010202	±2.5	PASS
GPRS1900	810	NV	-30	19.34	0.010127	±2.5	PASS
GPRS1900	810	NV	-20	16.98	0.008891	±2.5	PASS
GPRS1900	810	NV	-10	21.89	0.011462	±2.5	PASS
GPRS1900	810	NV	0	15.56	0.008147	±2.5	PASS
GPRS1900	810	NV	10	25.99	0.013609	±2.5	PASS
GPRS1900	810	NV	20	19.95	0.010446	±2.5	PASS
GPRS1900	810	NV	30	23.83	0.012478	±2.5	PASS
GPRS1900	810	NV	40	25.28	0.013237	±2.5	PASS
GPRS1900	810	NV	50	13.04	0.006828	±2.5	PASS
EGPRS1900	512	NV	-30	16.21	0.008761	±2.5	PASS
EGPRS1900	512	NV	-20	32.90	0.017782	±2.5	PASS
EGPRS1900	512	NV	-10	29.64	0.016020	±2.5	PASS
EGPRS1900	512	NV	0	33.16	0.017922	±2.5	PASS
EGPRS1900	512	NV	10	32.12	0.017360	±2.5	PASS
EGPRS1900	512	NV	20	23.41	0.012653	±2.5	PASS
EGPRS1900	512	NV	30	25.86	0.013977	±2.5	PASS
EGPRS1900	512	NV	40	25.93	0.014015	±2.5	PASS
EGPRS1900	512	NV	50	27.80	0.015025	±2.5	PASS
EGPRS1900	661	NV	-30	14.88	0.007915	±2.5	PASS
EGPRS1900	661	NV	-20	12.72	0.006766	±2.5	PASS

0							
EGPRS190 0	661	NV	-10	26.38	0.014032	±2.5	PASS
EGPRS190 0	661	NV	0	31.96	0.017000	±2.5	PASS
EGPRS190 0	661	NV	10	24.34	0.012947	±2.5	PASS
EGPRS190 0	661	NV	20	25.99	0.013824	±2.5	PASS
EGPRS190 0	661	NV	30	19.31	0.010271	±2.5	PASS
EGPRS190 0	661	NV	40	23.08	0.012277	±2.5	PASS
EGPRS190 0	661	NV	50	29.02	0.015436	±2.5	PASS
EGPRS190 0	810	NV	-30	14.66	0.007676	±2.5	PASS
EGPRS190 0	810	NV	-20	18.53	0.009703	±2.5	PASS
EGPRS190 0	810	NV	-10	23.25	0.012174	±2.5	PASS
EGPRS190 0	810	NV	0	27.73	0.014520	±2.5	PASS
EGPRS190 0	810	NV	10	15.85	0.008299	±2.5	PASS
EGPRS190 0	810	NV	20	24.67	0.012918	±2.5	PASS
EGPRS190 0	810	NV	30	27.48	0.014389	±2.5	PASS
EGPRS190 0	810	NV	40	20.86	0.010923	±2.5	PASS
EGPRS190 0	810	NV	50	20.15	0.010551	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM1900	512	PASS	PASS
GSM1900	661	PASS	PASS
GSM1900	810	PASS	PASS
GPRS1900	512	PASS	PASS
GPRS1900	661	PASS	PASS
GPRS1900	810	PASS	PASS
EGPRS1900	512	PASS	PASS
EGPRS1900	661	PASS	PASS
EGPRS1900	810	PASS	PASS

Test Graphs

