

Appendix-GSM850

1.1 Appendix A: Effective Radiated Power Output Data

1.1.1 Test Result

Band	Channel	Conducted Power(dBm)	Max Ant Gain(dBi)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.94	-0.34	32.60	38.45	PASS
GSM850	190	32.83	-0.34	32.49	38.45	PASS
GSM850	251	33.22	-0.34	32.88	38.45	PASS

Band	Channel	Up Slot Num	Conducted Power (dBm)	Max Ant Gain(dBi)	ERP (dBm)	Limit(dBm)	Verdict
GPRS850	128	1	33.02	-0.34	32.68	38.45	PASS
GPRS850	128	2	32.74	-0.34	32.40	38.45	PASS
GPRS850	128	3	30.79	-0.34	30.45	38.45	PASS
GPRS850	128	4	29.81	-0.34	29.47	38.45	PASS
GPRS850	190	1	33.28	-0.34	32.94	38.45	PASS
GPRS850	190	2	32.11	-0.34	31.77	38.45	PASS
GPRS850	190	3	30.01	-0.34	29.67	38.45	PASS
GPRS850	190	4	29.65	-0.34	29.31	38.45	PASS
GPRS850	251	1	33.48	-0.34	33.14	38.45	PASS
GPRS850	251	2	31.70	-0.34	31.36	38.45	PASS
GPRS850	251	3	29.81	-0.34	29.47	38.45	PASS
GPRS850	251	4	29.72	-0.34	29.38	38.45	PASS

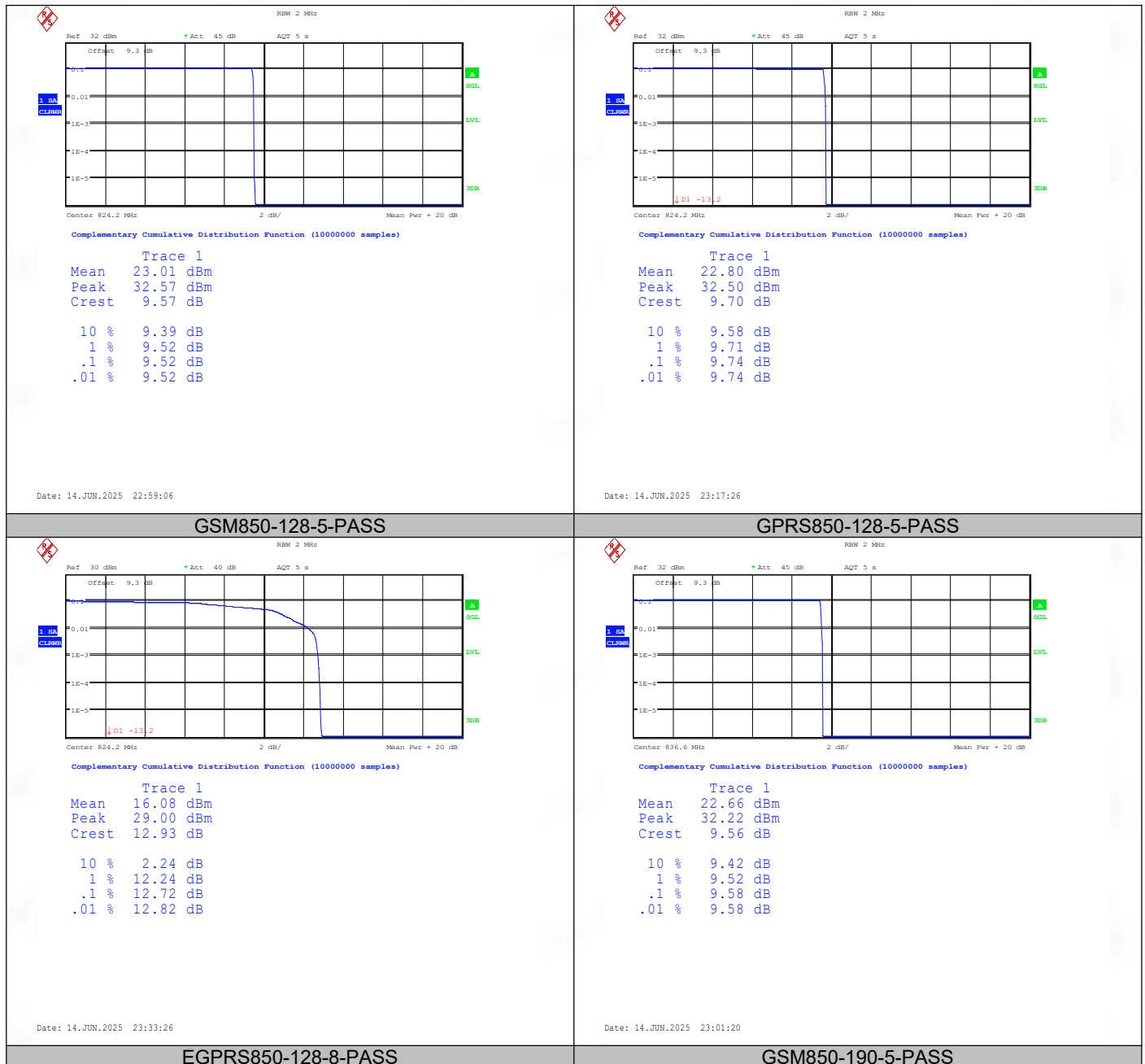
Band	Channel	Up Slot Num	Conducted Power (dBm)	Max Ant Gain(dBi)	ERP (dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.93	-0.34	26.59	38.45	PASS
EGPRS850	128	2	25.15	-0.34	24.81	38.45	PASS
EGPRS850	128	3	23.58	-0.34	23.24	38.45	PASS
EGPRS850	128	4	22.04	-0.34	21.70	38.45	PASS
EGPRS850	190	1	27.00	-0.34	26.66	38.45	PASS
EGPRS850	190	2	26.34	-0.34	26.00	38.45	PASS
EGPRS850	190	3	23.64	-0.34	23.30	38.45	PASS
EGPRS850	190	4	23.33	-0.34	22.99	38.45	PASS
EGPRS850	251	1	27.28	-0.34	26.94	38.45	PASS
EGPRS850	251	2	26.66	-0.34	26.32	38.45	PASS
EGPRS850	251	3	24.08	-0.34	23.74	38.45	PASS
EGPRS850	251	4	22.99	-0.34	22.65	38.45	PASS

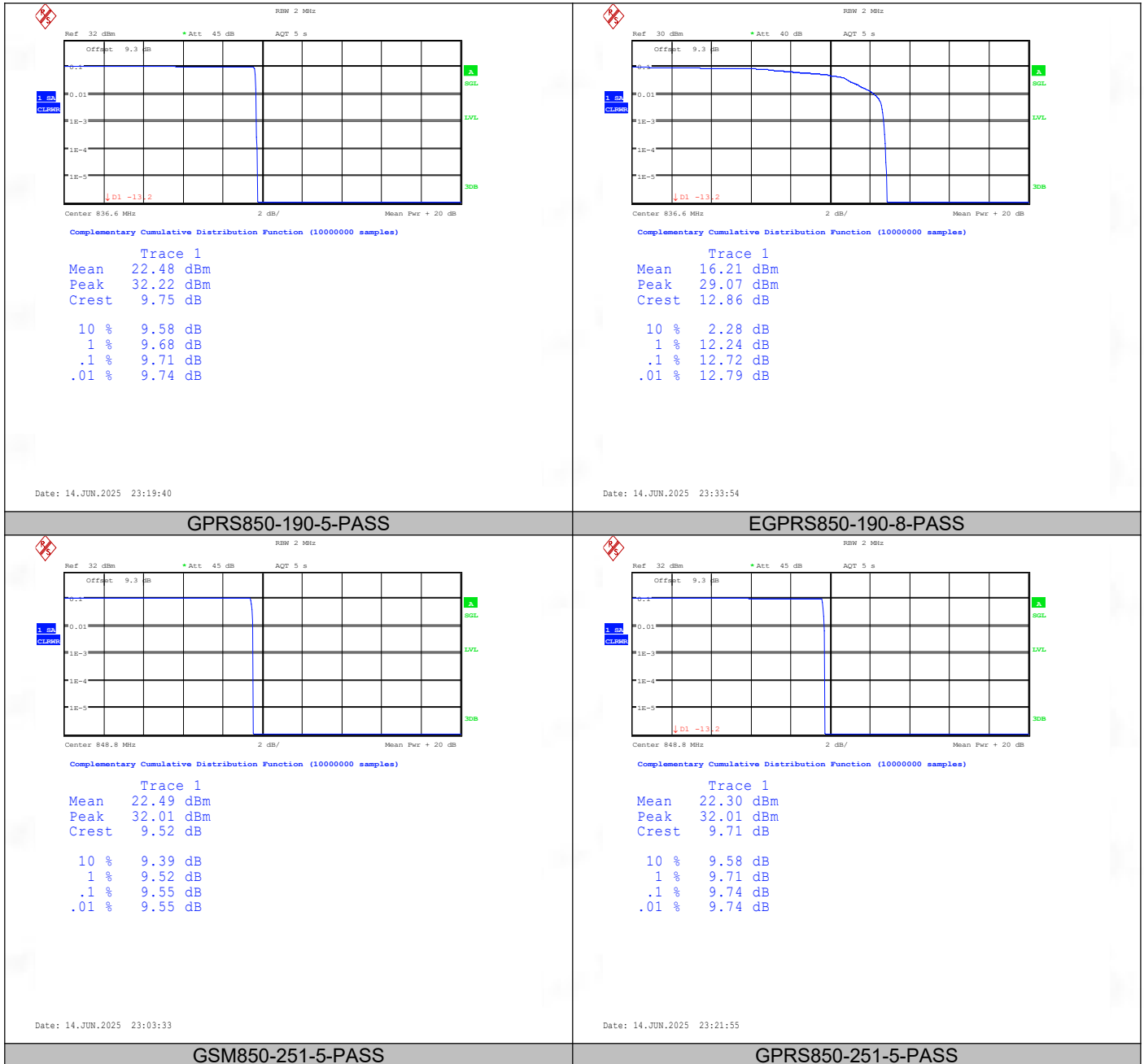
1.2 Appendix B: Peak-to-Average Ratio(CCDF)

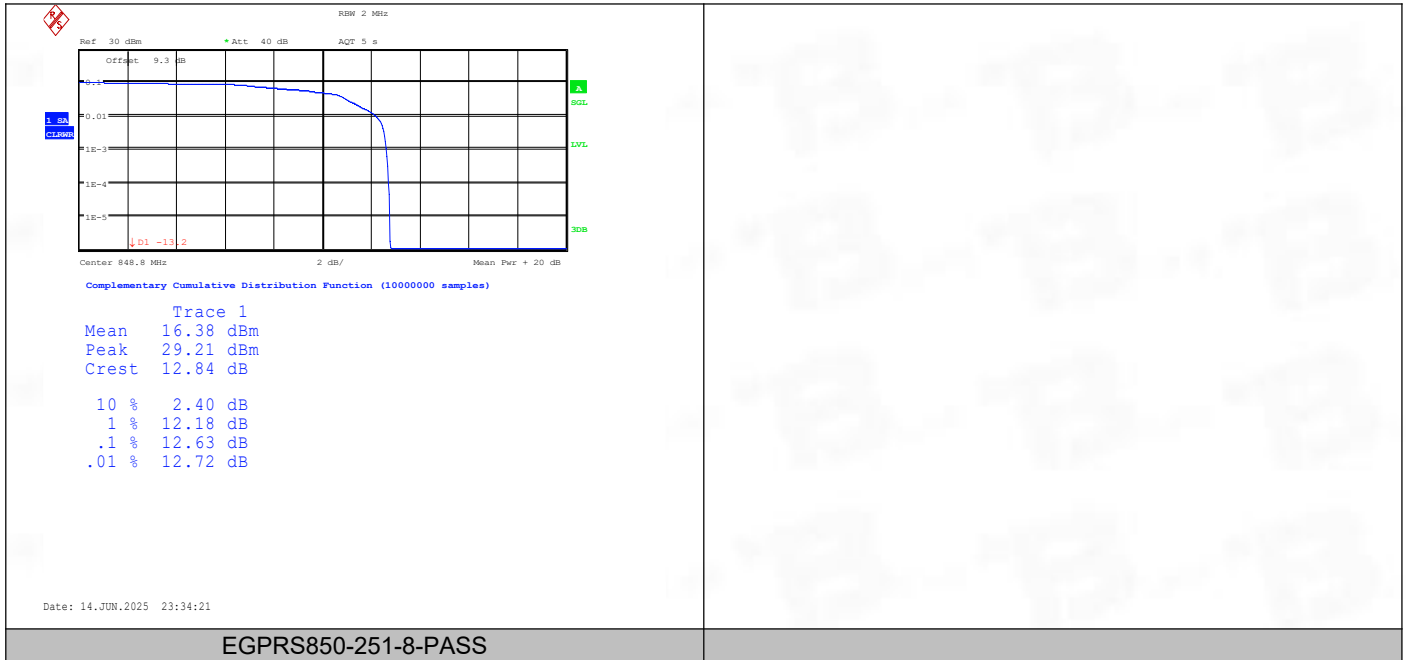
1.2.1 Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.52	13	PASS
GPRS850	128	9.74	13	PASS
EGPRS850	128	12.72	13	PASS
GSM850	190	9.58	13	PASS
GPRS850	190	9.71	13	PASS
EGPRS850	190	12.72	13	PASS
GSM850	251	9.55	13	PASS
GPRS850	251	9.74	13	PASS
EGPRS850	251	12.63	13	PASS

1.2.2 Test Graphs





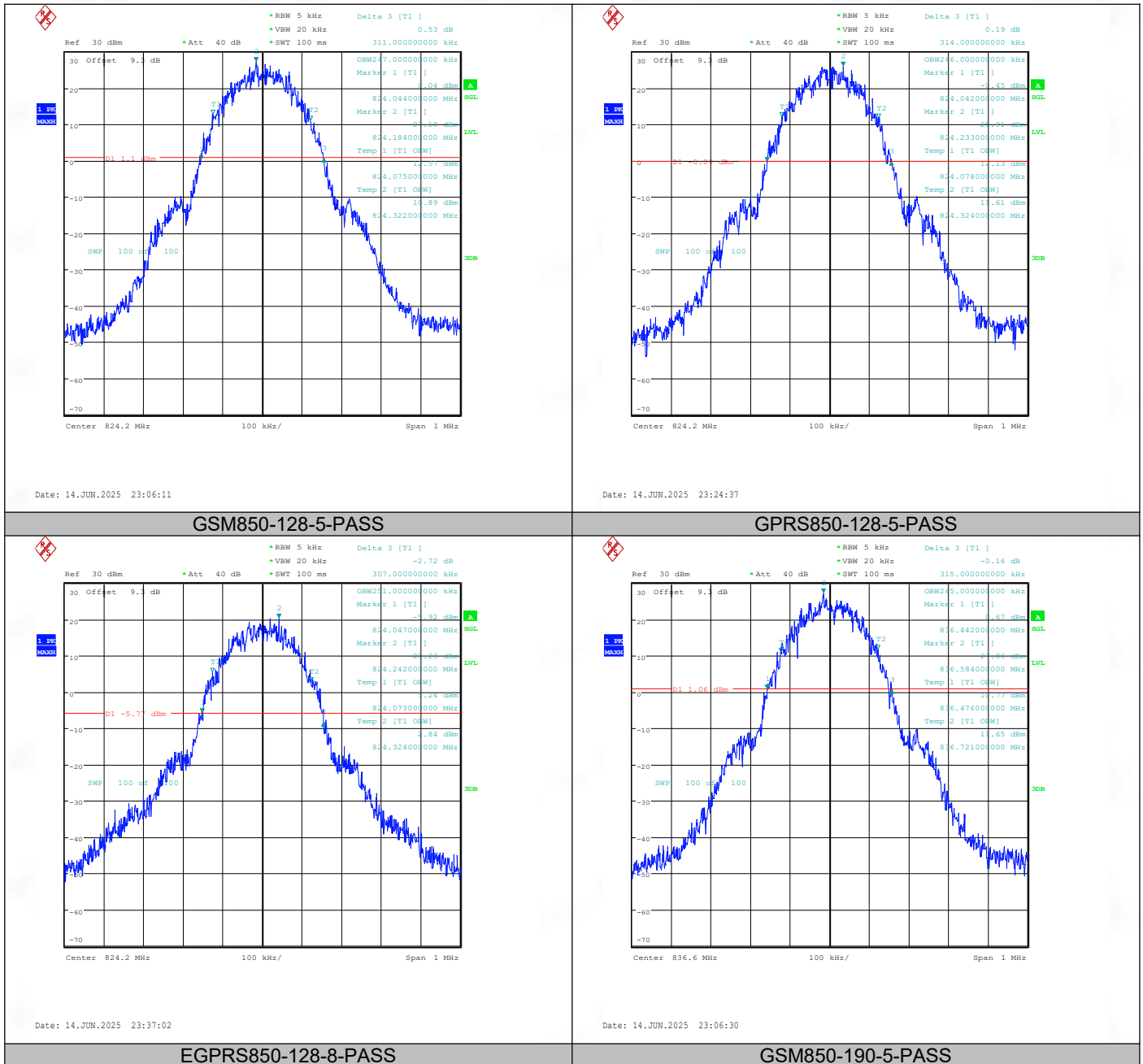


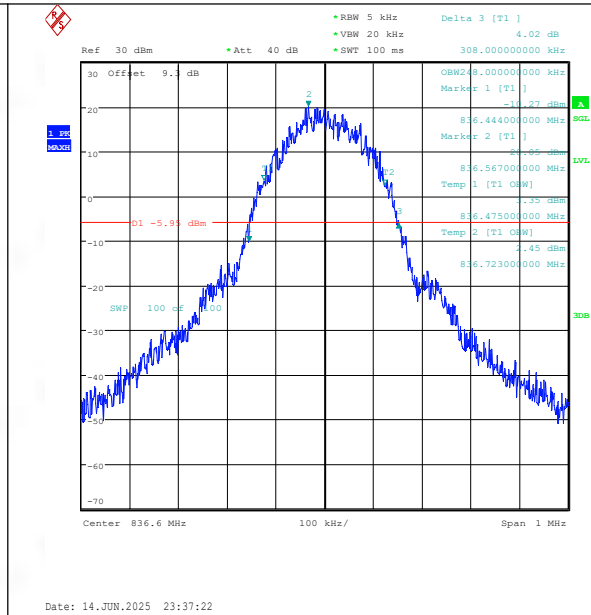
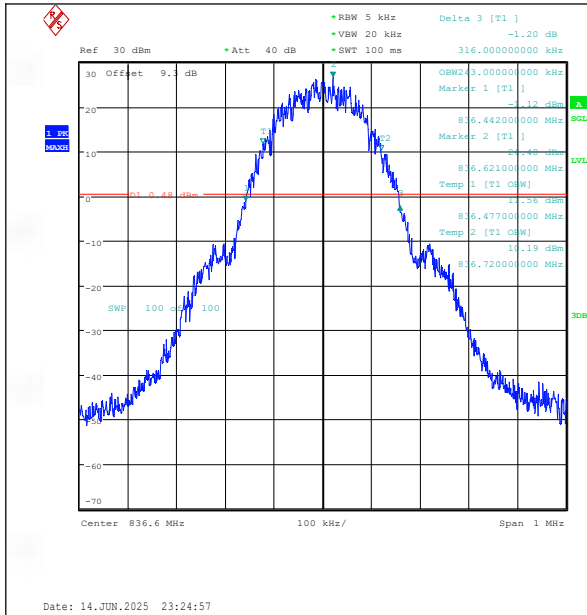
1.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

1.3.1 Test Result

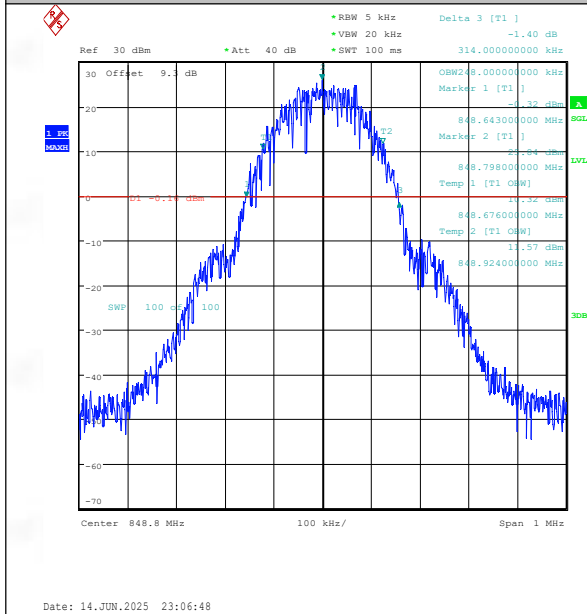
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.31	---	PASS
GPRS850	128	0.246	0.31	---	PASS
EGPRS850	128	0.251	0.31	---	PASS
GSM850	190	0.245	0.32	---	PASS
GPRS850	190	0.243	0.32	---	PASS
EGPRS850	190	0.248	0.31	---	PASS
GSM850	251	0.248	0.31	---	PASS
GPRS850	251	0.247	0.32	---	PASS
EGPRS850	251	0.249	0.32	---	PASS

1.3.2 Test Graphs

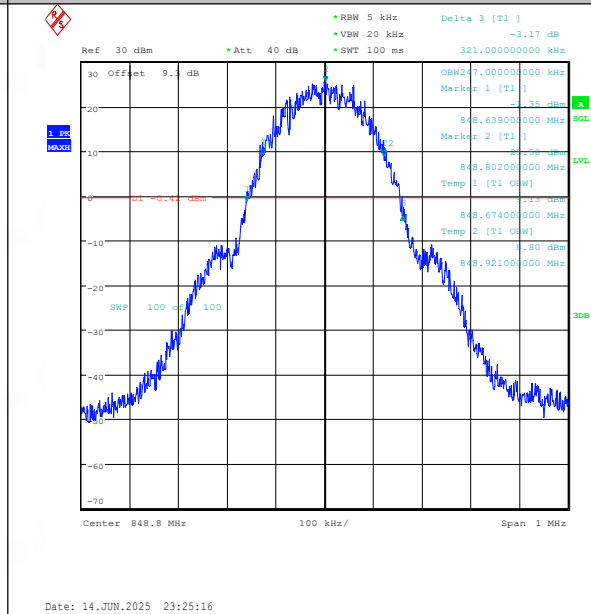




GPRS850-190-5-PASS

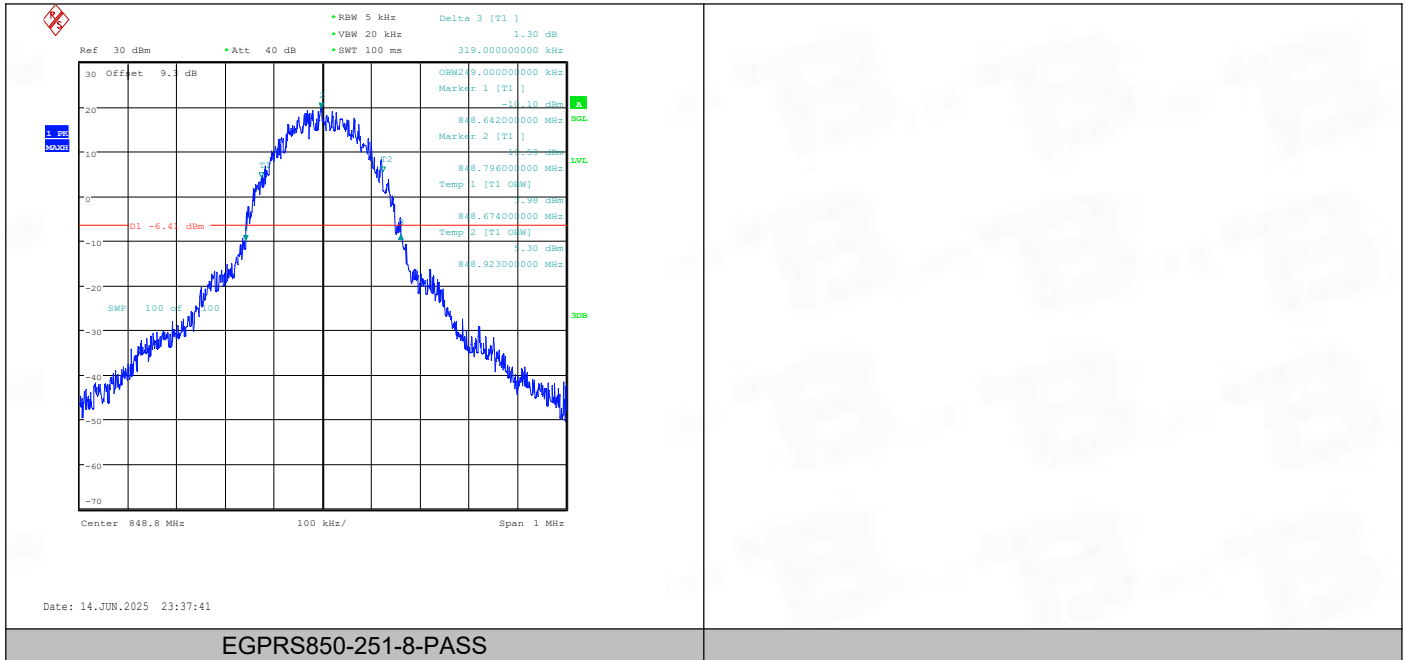


EGPRS850-190-8-PASS



GSM850-251-5-PASS

GPRS850-251-5-PASS

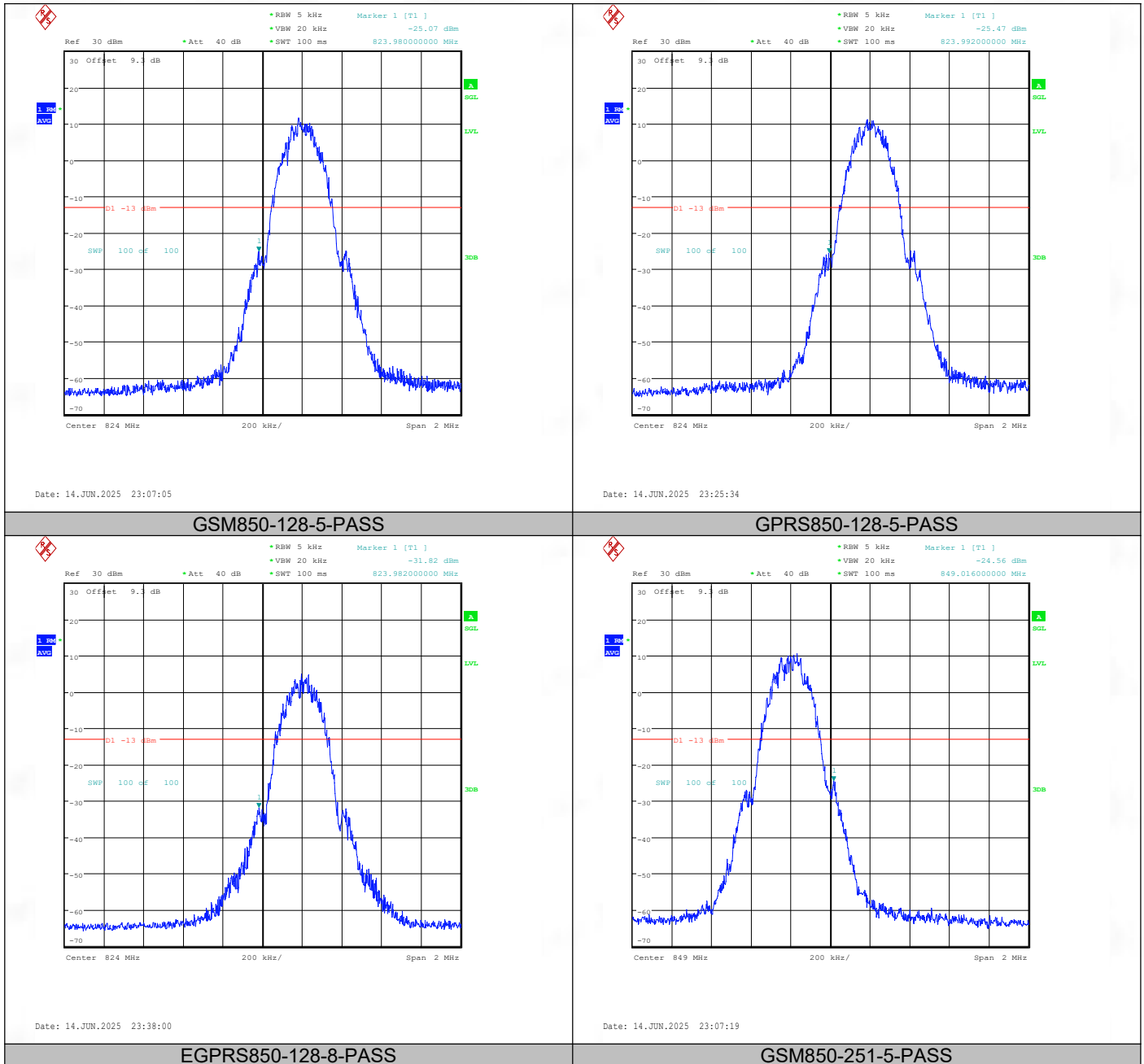


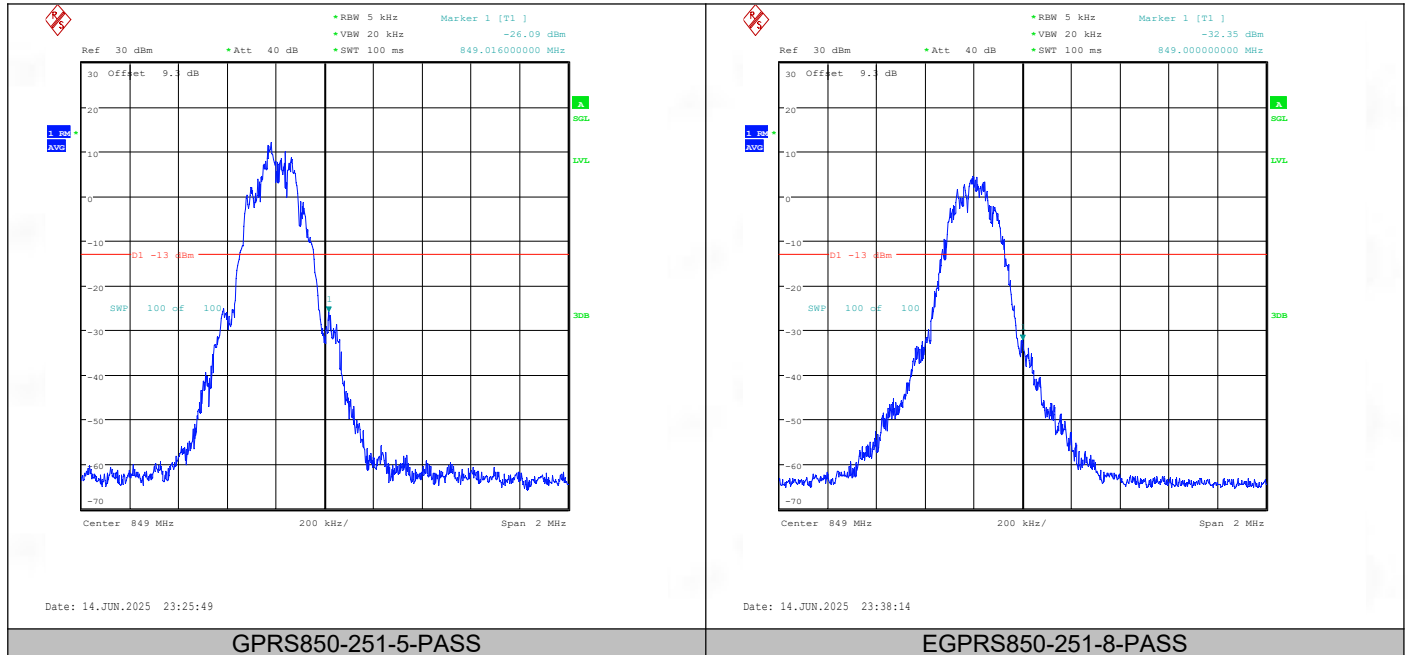
1.4 Appendix D: Band Edge

1.4.1 Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.98	-25.07	-13	PASS
GPRS850	128	823.99	-25.47	-13	PASS
EGPRS850	128	823.98	-31.82	-13	PASS
GSM850	251	849.02	-24.56	-13	PASS
GPRS850	251	849.02	-26.09	-13	PASS
EGPRS850	251	849.00	-32.35	-13	PASS

1.4.2 Test Graphs



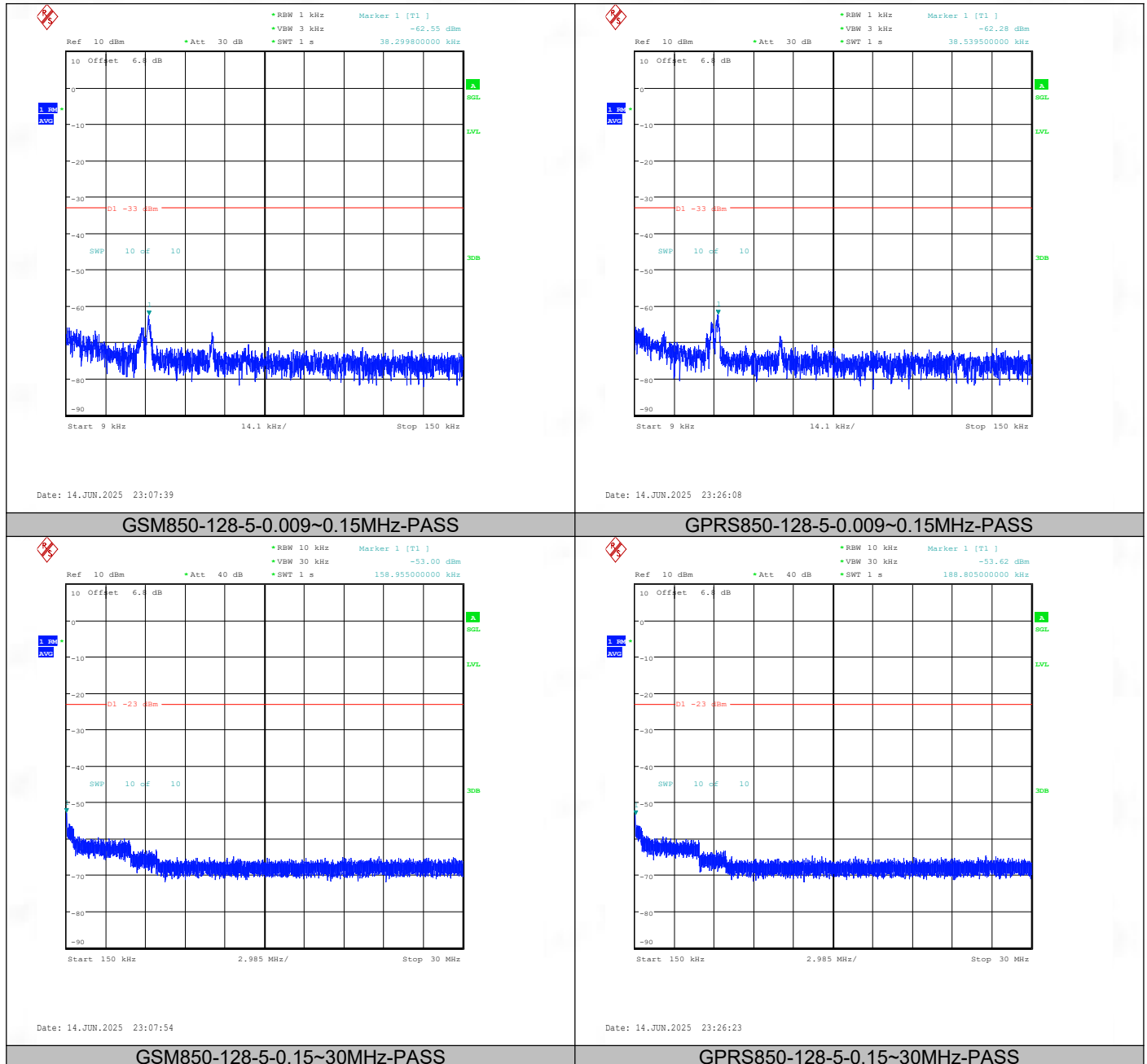


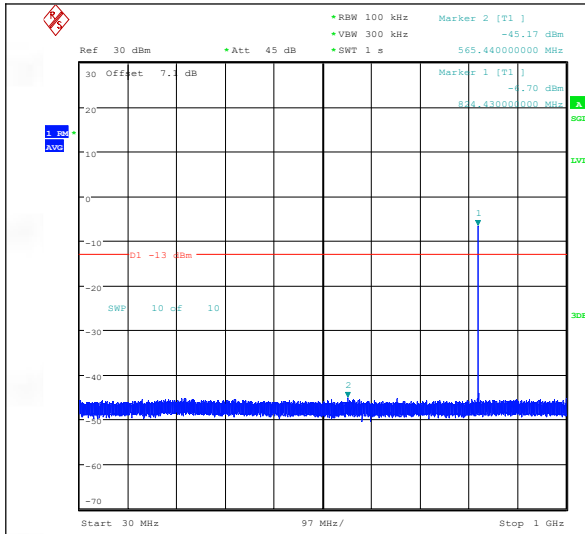
1.5 Appendix E: Conducted Spurious Emission

1.5.1 Test Result

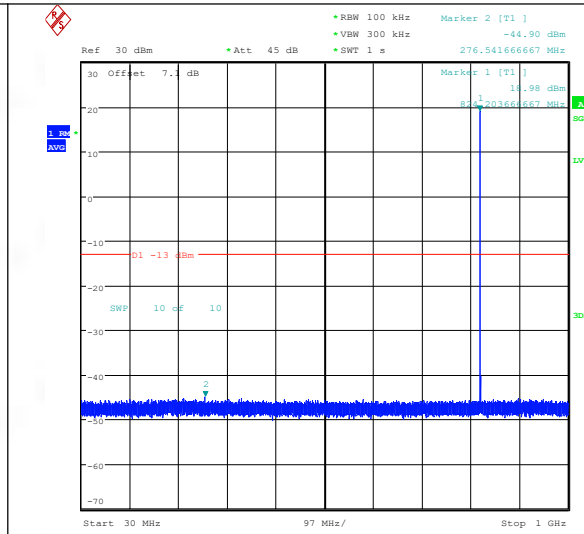
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.04	-62.55	-33	PASS
GPRS850	128	0.009~0.15MHz	0.04	-62.28	-33	PASS
GSM850	128	0.15~30MHz	0.16	-53	-23	PASS
GPRS850	128	0.15~30MHz	0.19	-53.62	-23	PASS
GSM850	128	30~1000MHz	565.44	-45.17	-13	PASS
GPRS850	128	30~1000MHz	276.54	-44.9	-13	PASS
GSM850	128	1000~10000MHz	1648.3	-32.41	-13	PASS
GPRS850	128	1000~10000MHz	3177.4	-43.25	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.04	-59.83	-33	PASS
EGPRS850	128	0.15~30MHz	0.16	-52.38	-23	PASS
EGPRS850	128	30~1000MHz	924.66	-45.02	-13	PASS
EGPRS850	128	1000~10000MHz	3175.6	-42.04	-13	PASS
GSM850	190	0.009~0.15MHz	0.04	-62.21	-33	PASS
GPRS850	190	0.009~0.15MHz	0.04	-63.01	-33	PASS
GSM850	190	0.15~30MHz	0.17	-53.08	-23	PASS
GPRS850	190	0.15~30MHz	0.19	-52.42	-23	PASS
GSM850	190	30~1000MHz	943.26	-45.14	-13	PASS
GPRS850	190	30~1000MHz	198.07	-45.29	-13	PASS
GSM850	190	1000~10000MHz	3174.1	-43.2	-13	PASS
GPRS850	190	1000~10000MHz	1672.9	-32.84	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.04	-62.53	-33	PASS
EGPRS850	190	0.15~30MHz	0.19	-52.64	-23	PASS
EGPRS850	190	30~1000MHz	216.63	-45.2	-13	PASS
EGPRS850	190	1000~10000MHz	3174.4	-43.82	-13	PASS
GSM850	251	0.009~0.15MHz	0.04	-64.09	-33	PASS
GPRS850	251	0.009~0.15MHz	0.04	-63.77	-33	PASS
GSM850	251	0.15~30MHz	0.17	-51.61	-23	PASS
GPRS850	251	0.15~30MHz	0.17	-52.69	-23	PASS
GSM850	251	30~1000MHz	339.01	-45.22	-13	PASS
GPRS850	251	30~1000MHz	350.71	-44.95	-13	PASS
GSM850	251	1000~10000MHz	1697.5	-32.77	-13	PASS
GPRS850	251	1000~10000MHz	1697.5	-32.85	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.04	-61.68	-33	PASS
EGPRS850	251	0.15~30MHz	0.16	-52.79	-23	PASS
EGPRS850	251	30~1000MHz	249.19	-44.95	-13	PASS
EGPRS850	251	1000~10000MHz	1697.5	-42.54	-13	PASS

1.5.2 Test Graphs



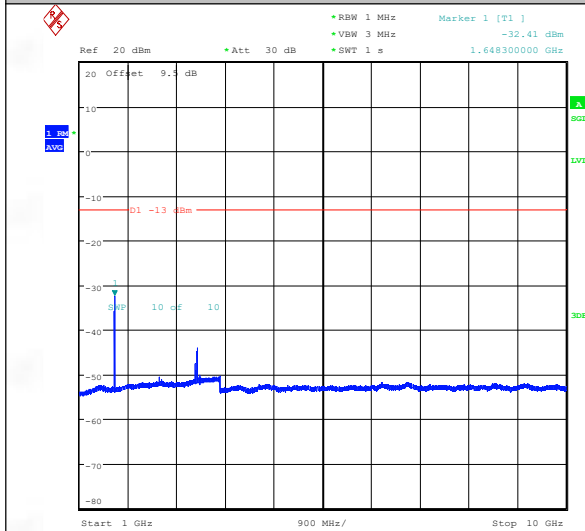


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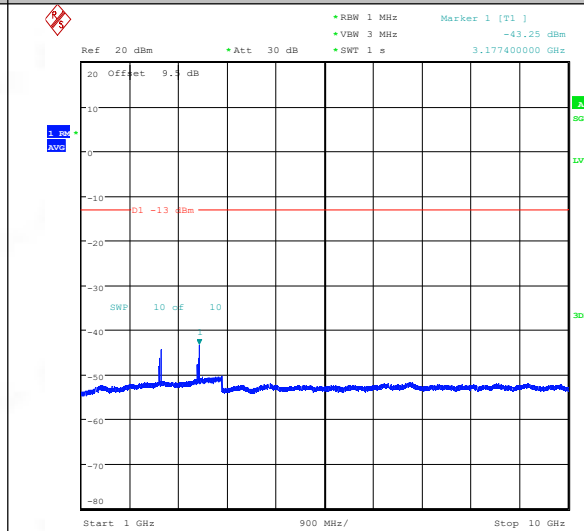
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GSM850-128-5-30~1000MHz-PASS



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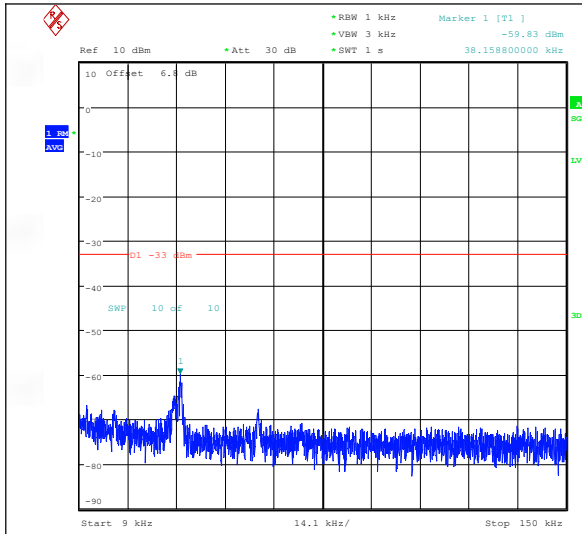
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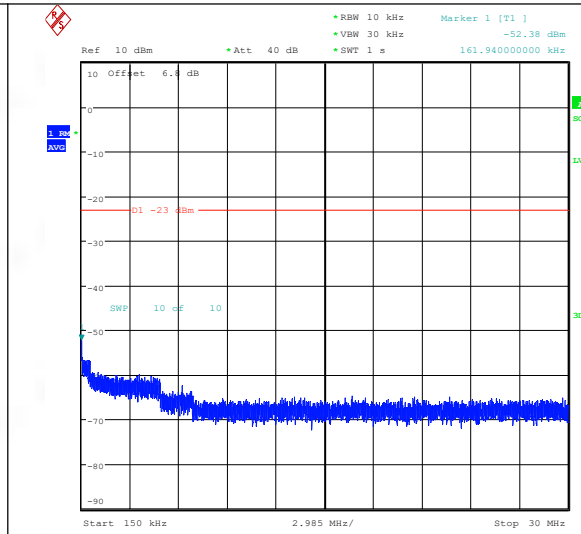
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GPRS850-128-5-1000~10000MHz-PASS



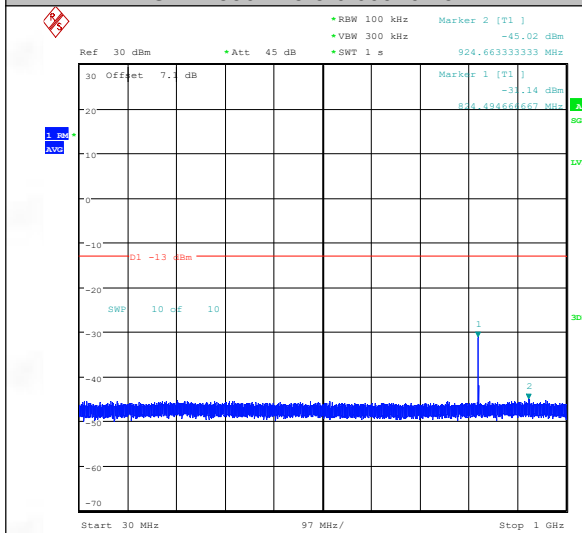
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EGPRS850-128-8-0.009~0.15MHz-PASS



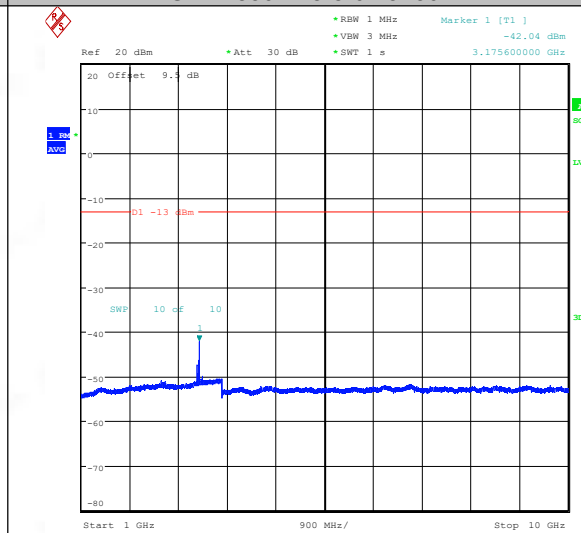
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EGPRS850-128-8-0.15~30MHz-PASS



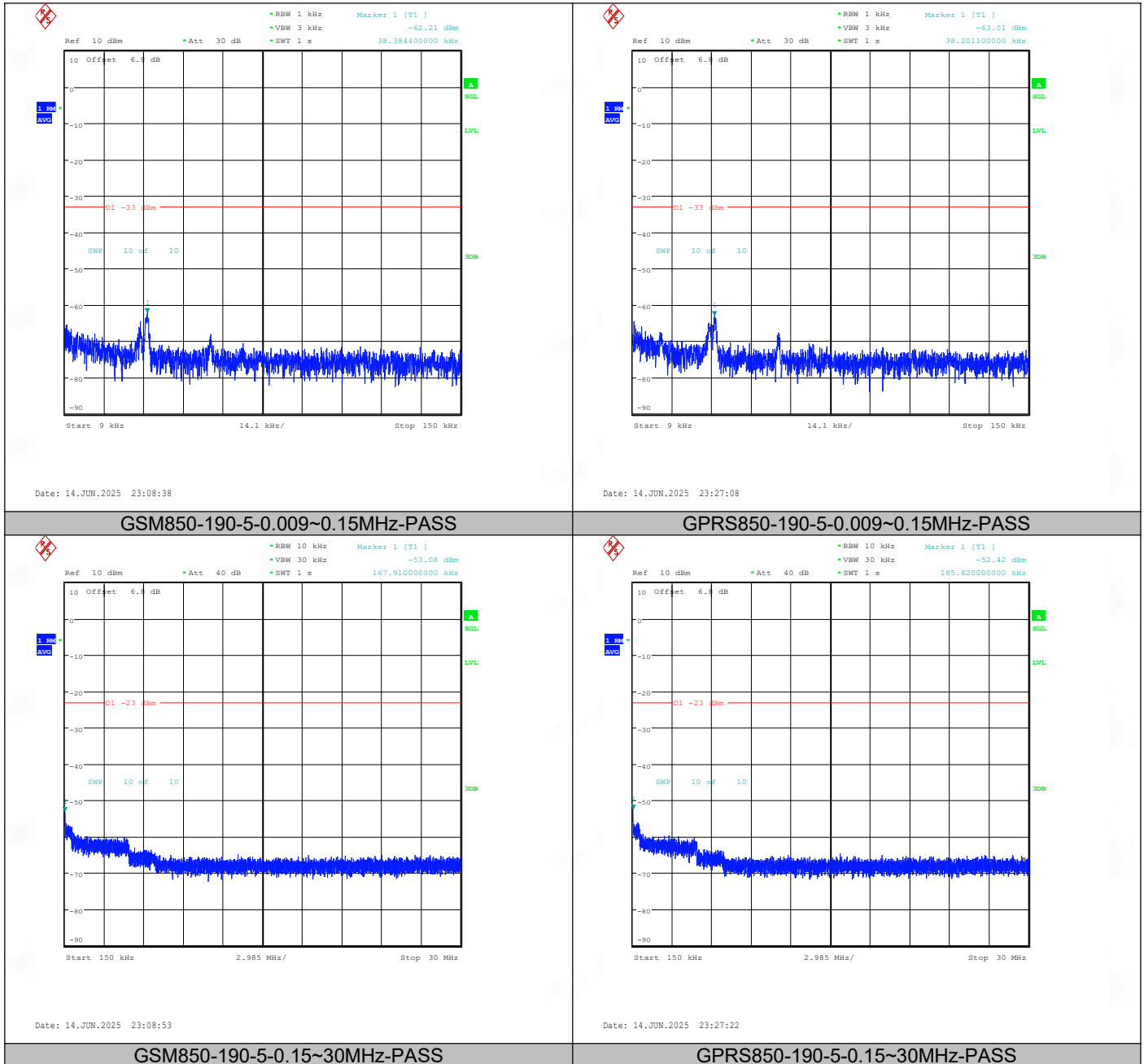
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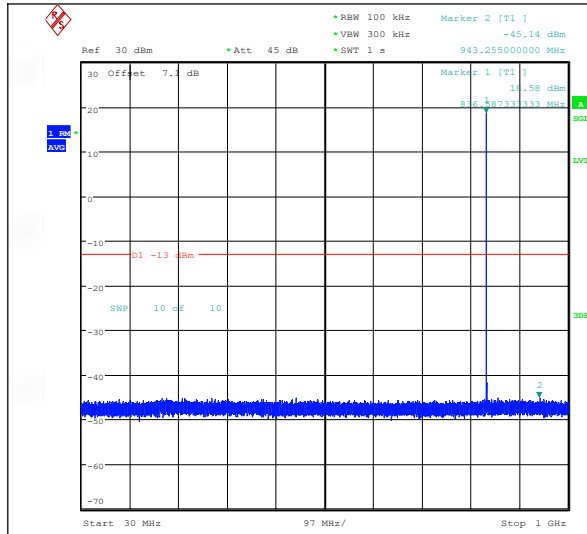
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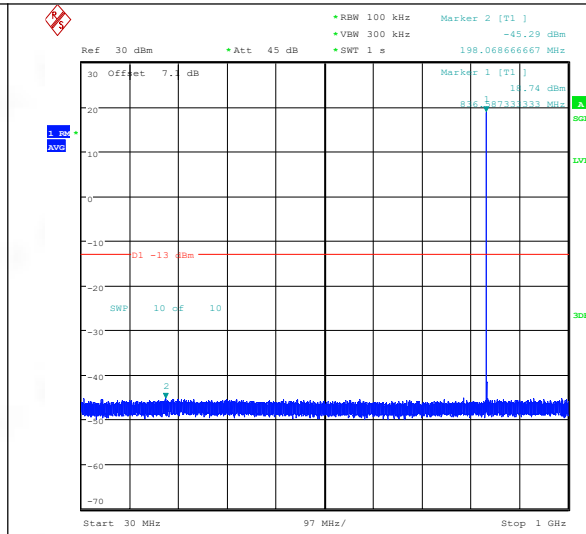
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EGPRS850-128-8-1000~10000MHz-PASS



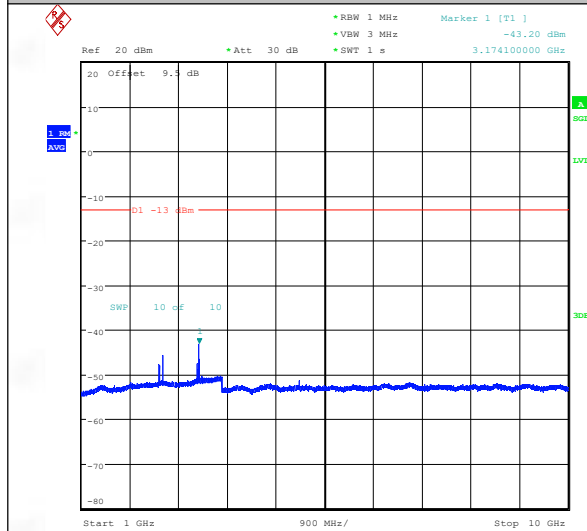


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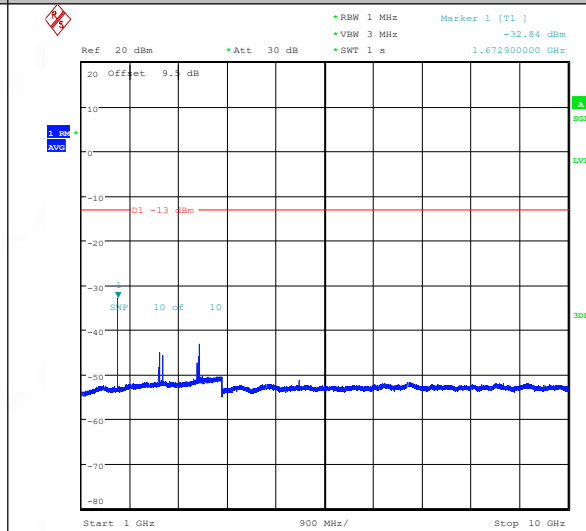
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GSM850-190-5-30~1000MHz-PASS



Date: 14.JUN.2025 23:09:23

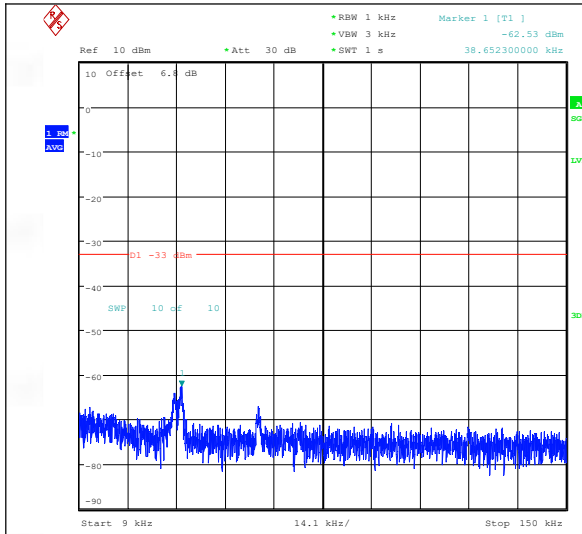
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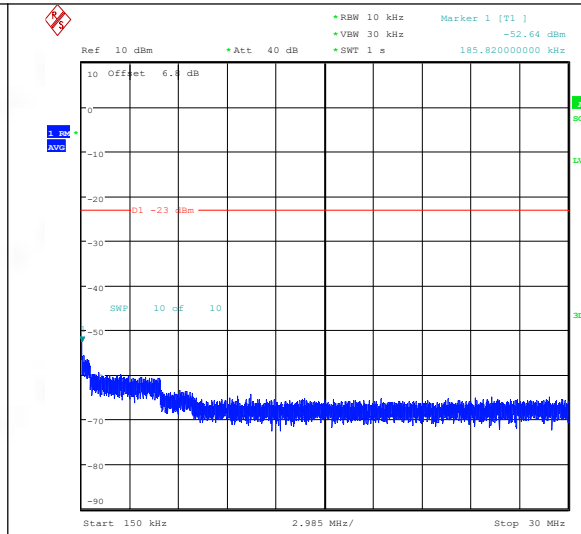
GSM850-190-5-1000~10000MHz-PASS

GPRS850-190-5-1000~10000MHz-PASS



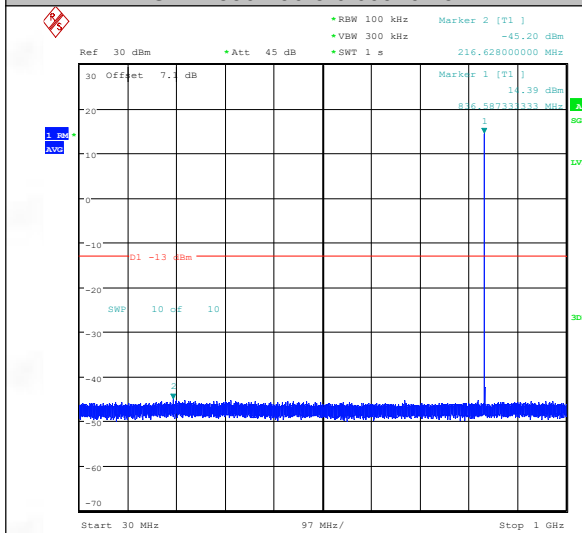
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EGPRS850-190-8-0.009~0.15MHz-PASS



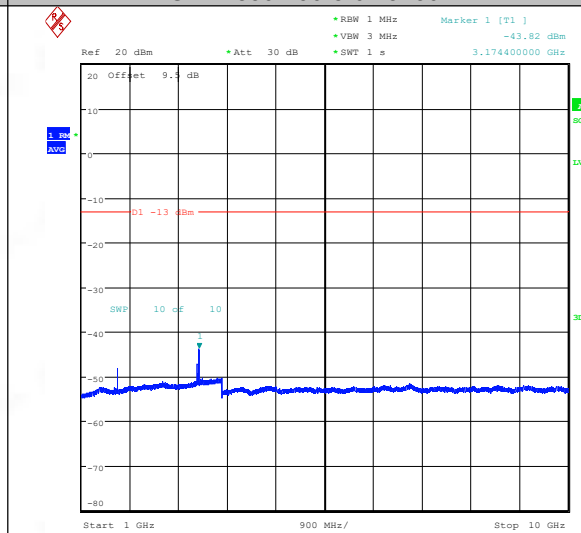
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EGPRS850-190-8-0.15~30MHz-PASS



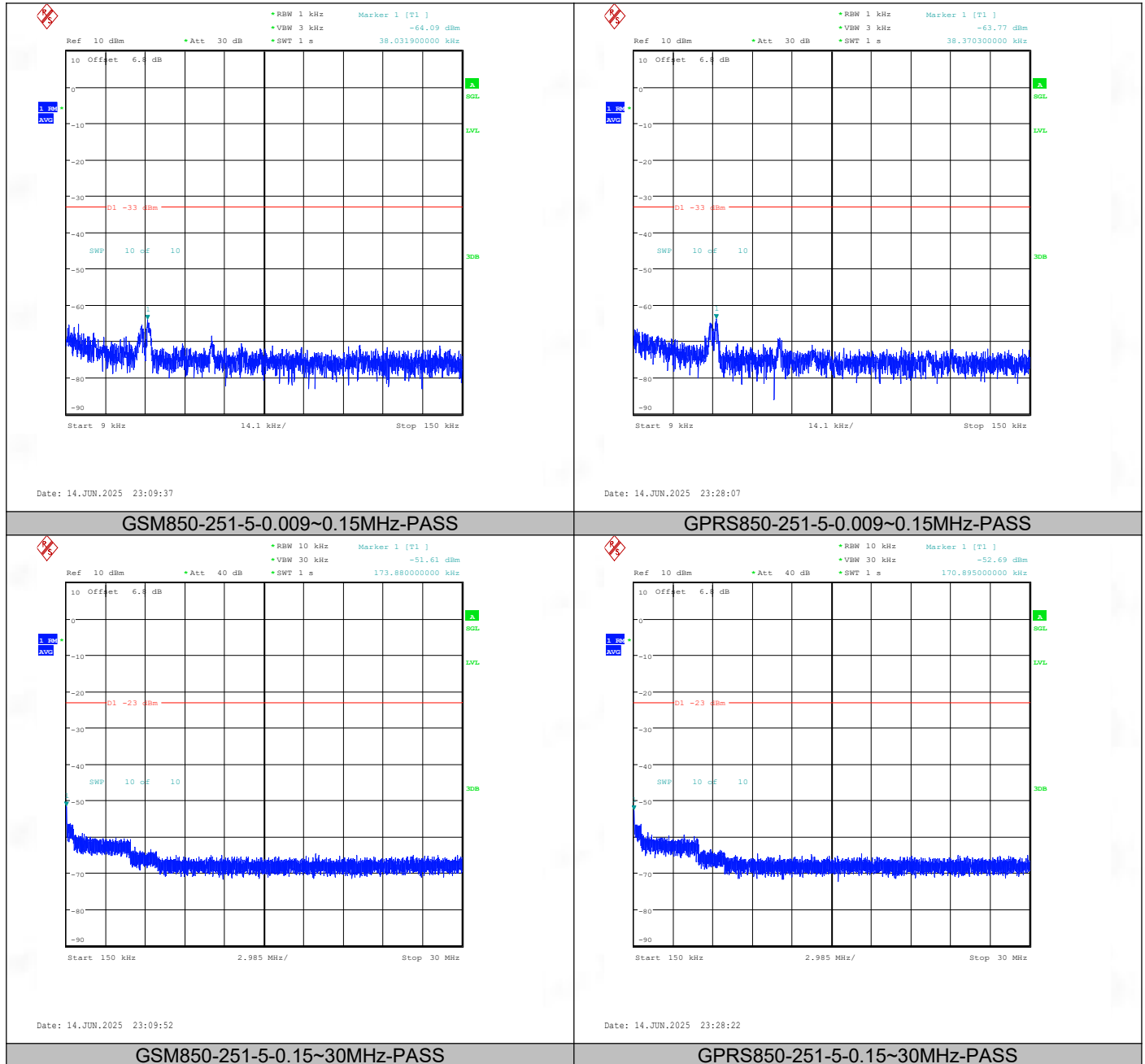
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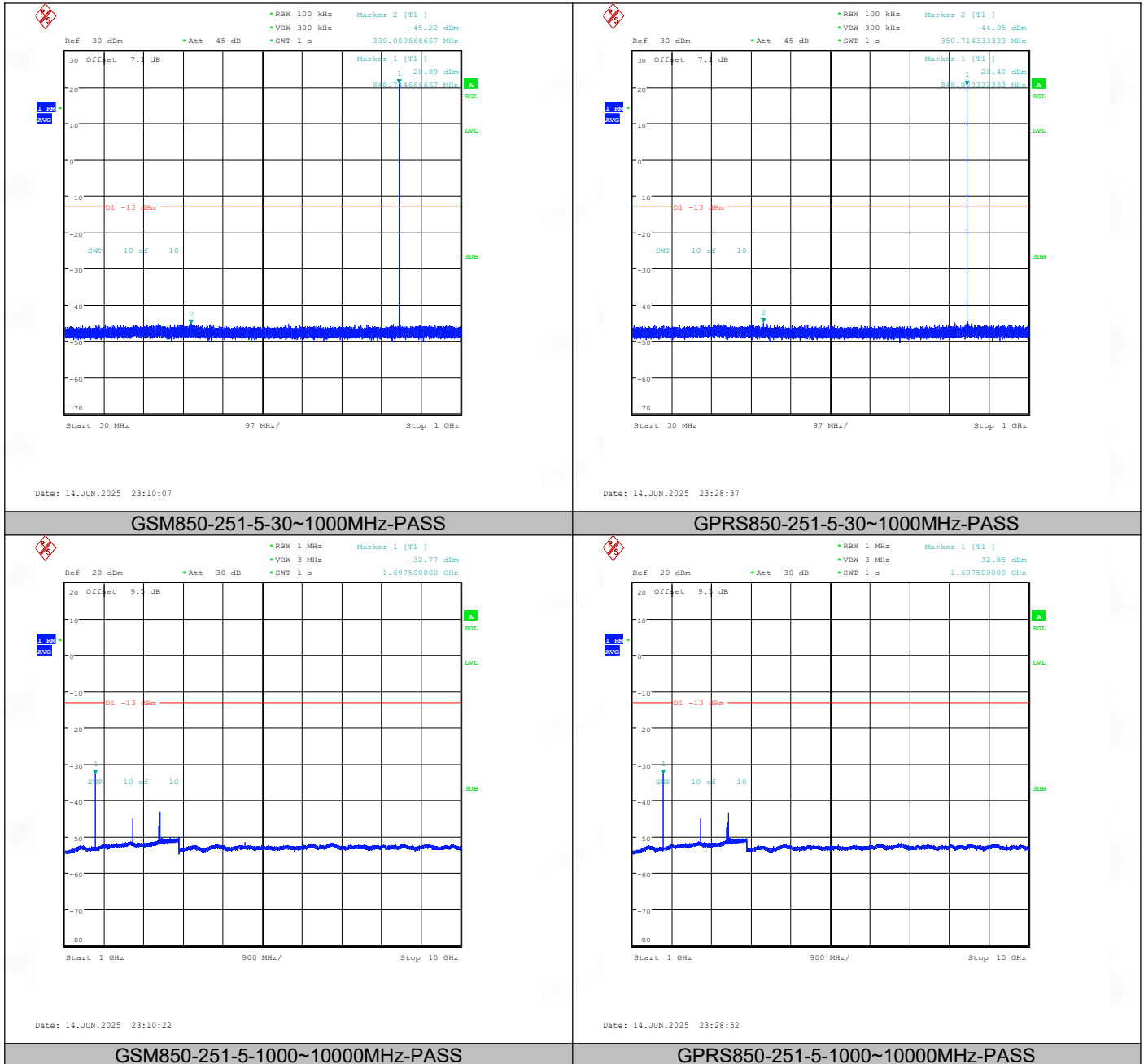
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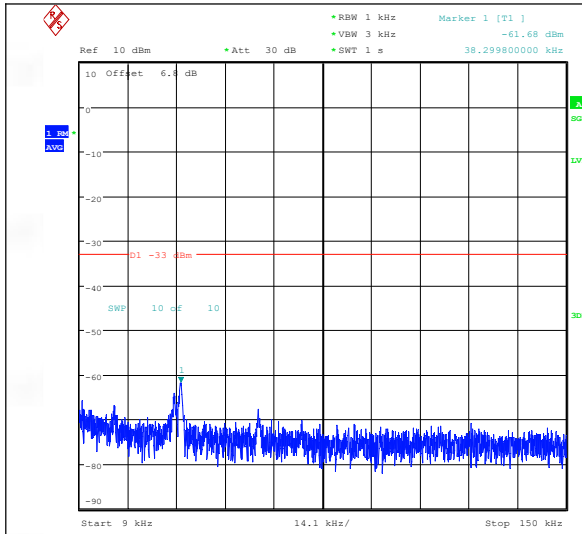


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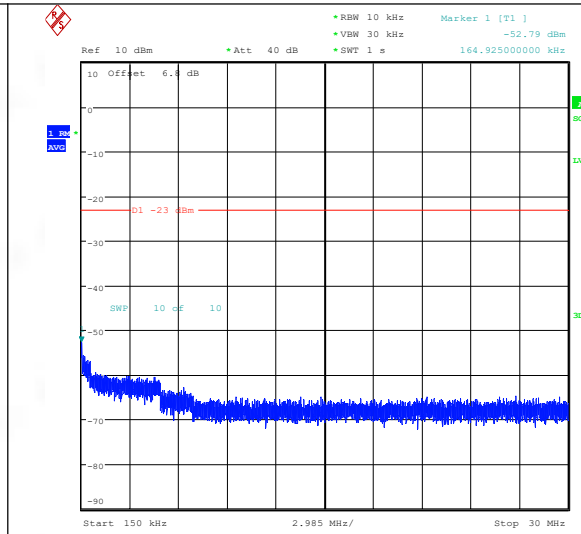






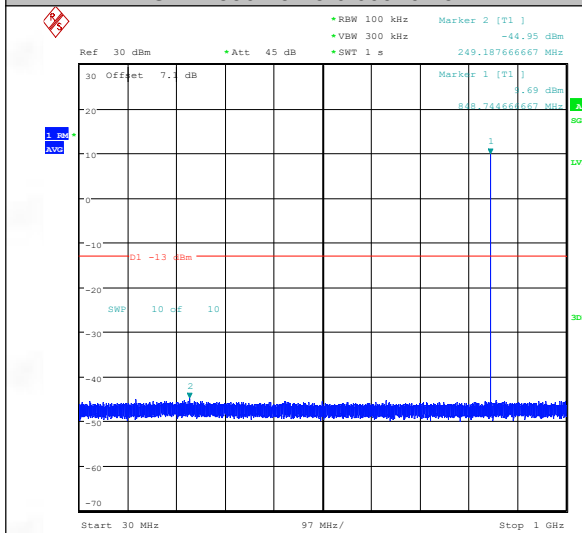
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EGPRS850-251-8-0.009~0.15MHz-PASS



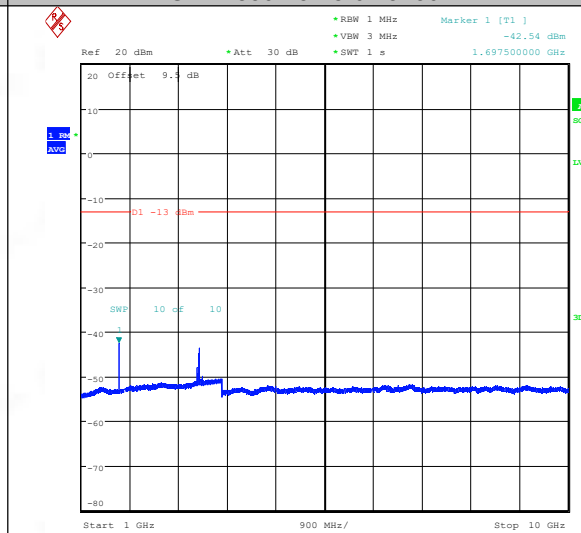
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EGPRS850-251-8-0.15~30MHz-PASS



Date: 14.JUN.2025 23:41:03

EGPRS850-251-8-30~1000MHz-PASS



Date: 14.JUN.2025 23:41:18

EGPRS850-251-8-1000~10000MHz-PASS

1.6 Appendix F: Frequency Stability

1.6.1 Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	-17.47	-0.021196	±2.5	PASS
GSM850	128	VL	NT	-14.21	-0.017241	±2.5	PASS
GSM850	128	VH	NT	-16.59	-0.020129	±2.5	PASS
GPRS850	128	VN	NT	-15.17	-0.018406	±2.5	PASS
GPRS850	128	VL	NT	-18.47	-0.022410	±2.5	PASS
GPRS850	128	VH	NT	-16.89	-0.020493	±2.5	PASS
EGPRS850	128	VN	NT	-10.46	-0.012691	±2.5	PASS
EGPRS850	128	VL	NT	-9.40	-0.011405	±2.5	PASS
EGPRS850	128	VH	NT	-8.39	-0.010180	±2.5	PASS
GSM850	190	VN	NT	-13.88	-0.016591	±2.5	PASS
GSM850	190	VL	NT	-11.14	-0.013316	±2.5	PASS
GSM850	190	VH	NT	-12.33	-0.014738	±2.5	PASS
GPRS850	190	VN	NT	-19.50	-0.023309	±2.5	PASS
GPRS850	190	VL	NT	-15.76	-0.018838	±2.5	PASS
GPRS850	190	VH	NT	-14.59	-0.017440	±2.5	PASS
EGPRS850	190	VN	NT	-5.33	-0.006371	±2.5	PASS
EGPRS850	190	VL	NT	-6.75	-0.008068	±2.5	PASS
EGPRS850	190	VH	NT	-8.14	-0.009730	±2.5	PASS
GSM850	251	VN	NT	-13.82	-0.016282	±2.5	PASS
GSM850	251	VL	NT	-15.95	-0.018791	±2.5	PASS
GSM850	251	VH	NT	-15.24	-0.017955	±2.5	PASS
GPRS850	251	VN	NT	-16.30	-0.019204	±2.5	PASS
GPRS850	251	VL	NT	-13.27	-0.015634	±2.5	PASS
GPRS850	251	VH	NT	-14.43	-0.017000	±2.5	PASS
EGPRS850	251	VN	NT	-6.59	-0.007764	±2.5	PASS
EGPRS850	251	VL	NT	-8.23	-0.009696	±2.5	PASS
EGPRS850	251	VH	NT	-13.95	-0.016435	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-16.59	-0.020129	±2.5	PASS
GSM850	128	NV	-20	-15.14	-0.018369	±2.5	PASS
GSM850	128	NV	-10	-15.30	-0.018563	±2.5	PASS
GSM850	128	NV	0	-16.66	-0.020214	±2.5	PASS
GSM850	128	NV	10	-14.82	-0.017981	±2.5	PASS
GSM850	128	NV	20	-16.89	-0.020493	±2.5	PASS
GSM850	128	NV	30	-19.76	-0.023975	±2.5	PASS
GSM850	128	NV	40	-18.31	-0.022215	±2.5	PASS
GSM850	128	NV	50	-19.24	-0.023344	±2.5	PASS
GPRS850	128	NV	-30	-17.27	-0.020954	±2.5	PASS
GPRS850	128	NV	-20	-19.92	-0.024169	±2.5	PASS
GPRS850	128	NV	-10	-17.31	-0.021002	±2.5	PASS
GPRS850	128	NV	0	-19.18	-0.023271	±2.5	PASS
GPRS850	128	NV	10	-18.47	-0.022410	±2.5	PASS
GPRS850	128	NV	20	-21.37	-0.025928	±2.5	PASS
GPRS850	128	NV	30	-24.60	-0.029847	±2.5	PASS
GPRS850	128	NV	40	-19.53	-0.023696	±2.5	PASS
GPRS850	128	NV	50	-17.56	-0.021306	±2.5	PASS

EGPRS850	128	NV	-30	-10.04	-0.012182	±2.5	PASS
EGPRS850	128	NV	-20	-8.04	-0.009755	±2.5	PASS
EGPRS850	128	NV	-10	-7.75	-0.009403	±2.5	PASS
EGPRS850	128	NV	0	-12.14	-0.014729	±2.5	PASS
EGPRS850	128	NV	10	-8.68	-0.010531	±2.5	PASS
EGPRS850	128	NV	20	-6.07	-0.007365	±2.5	PASS
EGPRS850	128	NV	30	-7.04	-0.008542	±2.5	PASS
EGPRS850	128	NV	40	-7.65	-0.009282	±2.5	PASS
EGPRS850	128	NV	50	-4.10	-0.004975	±2.5	PASS
GSM850	190	NV	-30	-13.11	-0.015671	±2.5	PASS
GSM850	190	NV	-20	-12.20	-0.014583	±2.5	PASS
GSM850	190	NV	-10	-16.53	-0.019759	±2.5	PASS
GSM850	190	NV	0	-19.08	-0.022807	±2.5	PASS
GSM850	190	NV	10	-13.92	-0.016639	±2.5	PASS
GSM850	190	NV	20	-15.72	-0.018790	±2.5	PASS
GSM850	190	NV	30	-15.05	-0.017989	±2.5	PASS
GSM850	190	NV	40	-15.92	-0.019029	±2.5	PASS
GSM850	190	NV	50	-17.18	-0.020536	±2.5	PASS
GPRS850	190	NV	-30	-17.82	-0.021301	±2.5	PASS
GPRS850	190	NV	-20	-18.27	-0.021838	±2.5	PASS
GPRS850	190	NV	-10	-20.24	-0.024193	±2.5	PASS
GPRS850	190	NV	0	-16.92	-0.020225	±2.5	PASS
GPRS850	190	NV	10	-14.01	-0.016746	±2.5	PASS
GPRS850	190	NV	20	-14.08	-0.016830	±2.5	PASS
GPRS850	190	NV	30	-13.08	-0.015635	±2.5	PASS
GPRS850	190	NV	40	-12.59	-0.015049	±2.5	PASS
GPRS850	190	NV	50	-15.85	-0.018946	±2.5	PASS
EGPRS850	190	NV	-30	-10.53	-0.012587	±2.5	PASS
EGPRS850	190	NV	-20	-9.69	-0.011583	±2.5	PASS
EGPRS850	190	NV	-10	-12.62	-0.015085	±2.5	PASS
EGPRS850	190	NV	0	-12.46	-0.014894	±2.5	PASS
EGPRS850	190	NV	10	-6.78	-0.008104	±2.5	PASS
EGPRS850	190	NV	20	-10.11	-0.012085	±2.5	PASS
EGPRS850	190	NV	30	-11.62	-0.013890	±2.5	PASS
EGPRS850	190	NV	40	-10.94	-0.013077	±2.5	PASS
EGPRS850	190	NV	50	-10.36	-0.012383	±2.5	PASS
GSM850	251	NV	-30	-15.27	-0.017990	±2.5	PASS
GSM850	251	NV	-20	-11.91	-0.014032	±2.5	PASS
GSM850	251	NV	-10	-13.69	-0.016129	±2.5	PASS
GSM850	251	NV	0	-12.85	-0.015139	±2.5	PASS
GSM850	251	NV	10	-11.49	-0.013537	±2.5	PASS
GSM850	251	NV	20	-16.59	-0.019545	±2.5	PASS
GSM850	251	NV	30	-14.14	-0.016659	±2.5	PASS
GSM850	251	NV	40	-14.69	-0.017307	±2.5	PASS
GSM850	251	NV	50	-17.27	-0.020346	±2.5	PASS
GPRS850	251	NV	-30	-14.53	-0.017118	±2.5	PASS
GPRS850	251	NV	-20	-16.79	-0.019781	±2.5	PASS
GPRS850	251	NV	-10	-17.66	-0.020806	±2.5	PASS
GPRS850	251	NV	0	-12.95	-0.015257	±2.5	PASS
GPRS850	251	NV	10	-13.50	-0.015905	±2.5	PASS
GPRS850	251	NV	20	-17.63	-0.020770	±2.5	PASS
GPRS850	251	NV	30	-10.43	-0.012288	±2.5	PASS
GPRS850	251	NV	40	-13.95	-0.016435	±2.5	PASS
GPRS850	251	NV	50	-16.24	-0.019133	±2.5	PASS
EGPRS850	251	NV	-30	-4.75	-0.005596	±2.5	PASS
EGPRS850	251	NV	-20	-9.17	-0.010803	±2.5	PASS
EGPRS850	251	NV	-10	-7.36	-0.008671	±2.5	PASS

EGPRS850	251	NV	0	-10.65	-0.012547	±2.5	PASS
EGPRS850	251	NV	10	-6.72	-0.007917	±2.5	PASS
EGPRS850	251	NV	20	-8.62	-0.010156	±2.5	PASS
EGPRS850	251	NV	30	-13.17	-0.015516	±2.5	PASS
EGPRS850	251	NV	40	-15.76	-0.018567	±2.5	PASS
EGPRS850	251	NV	50	-6.78	-0.007988	±2.5	PASS

1.7 Appendix G: Modulation Characteristics

1.7.1 Test Result

Band	Channel	Result	Verdict
GSM850	128	PASS	PASS
GPRS850	128	PASS	PASS
EGPRS850	128	PASS	PASS
GSM850	190	PASS	PASS
GPRS850	190	PASS	PASS
EGPRS850	190	PASS	PASS
GSM850	251	PASS	PASS
GPRS850	251	PASS	PASS
EGPRS850	251	PASS	PASS

1.7.2 Test Graphs

