

Appendix B

Test Information:

Sample No.:	2Z1E-1	Test Date:	2025/03/18~2025/03/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	Leo Lin	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.5-25.1.	Relative Humidity: (%)	34-42	ATM Pressure: (kPa)	100.5-101.9
----------------------	------------	------------------------------	-------	------------------------	-------------

Transmitter Conducted Output Power And ERP/EIRP

Band	Channel	PCL	Freq (MHz)	Conducted Power(dBm)	ERP/EIRP (dBm)	ERP/EIRP(limit) (dBm)	Verdict
GSM 850	251	5	848.8	30.10	23.63	38.45	PASS
GSM 850	190	5	836.6	29.39	22.92	38.45	PASS
GSM 850	128	5	824.2	29.30	22.83	38.45	PASS
PCS 1900	810	0	1909.8	25.22	23.52	33.01	PASS
PCS 1900	661	0	1880.0	25.36	23.66	33.01	PASS
PCS 1900	512	0	1850.2	25.27	23.57	33.01	PASS

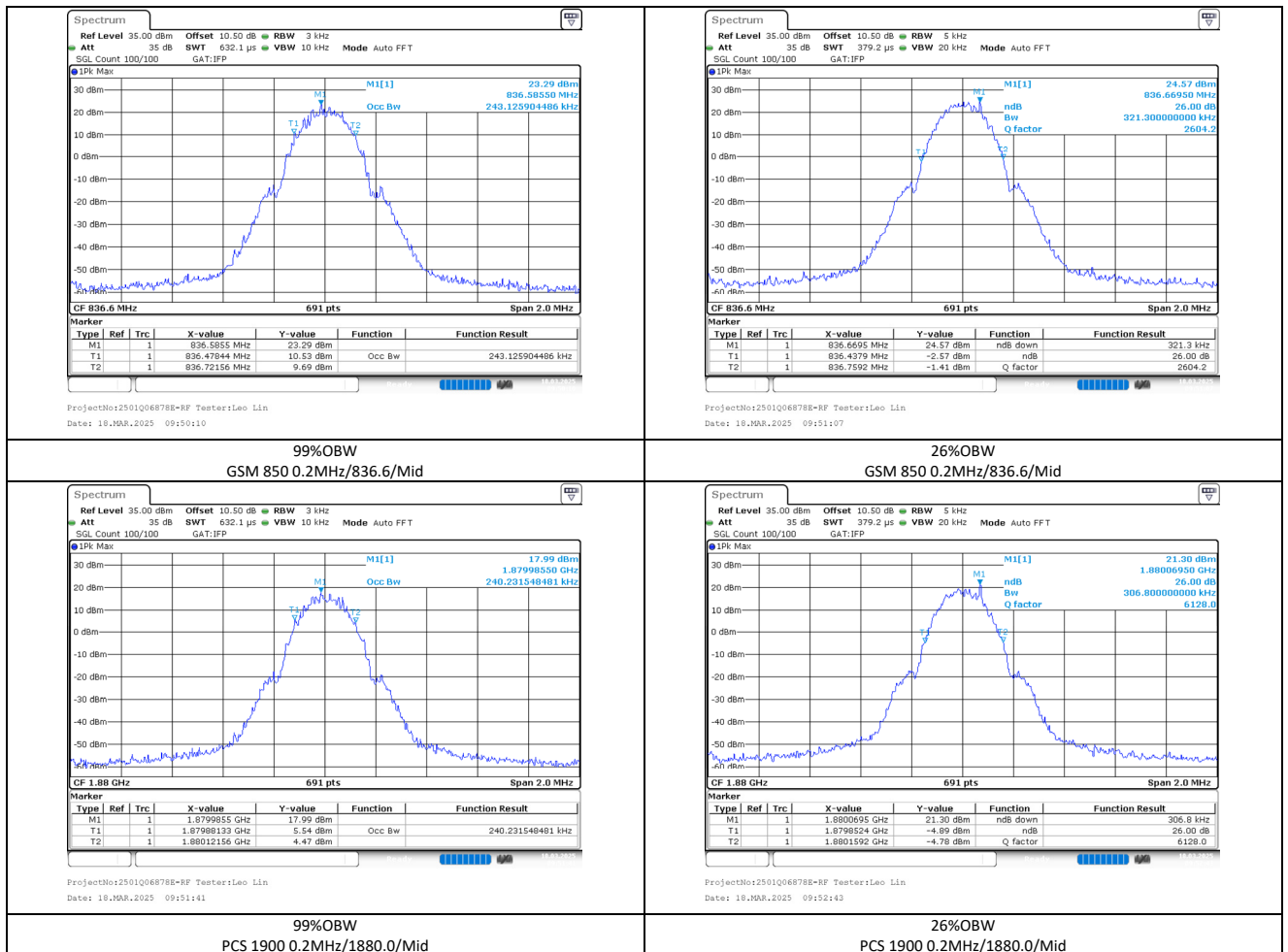
Note:
1. Antenna Gain: GSM850=-4.32dBi, PCS1900=-1.70dBi
2. L_c: GSM850=0dB, PCS1900=0dB

Peak to Average Ratio

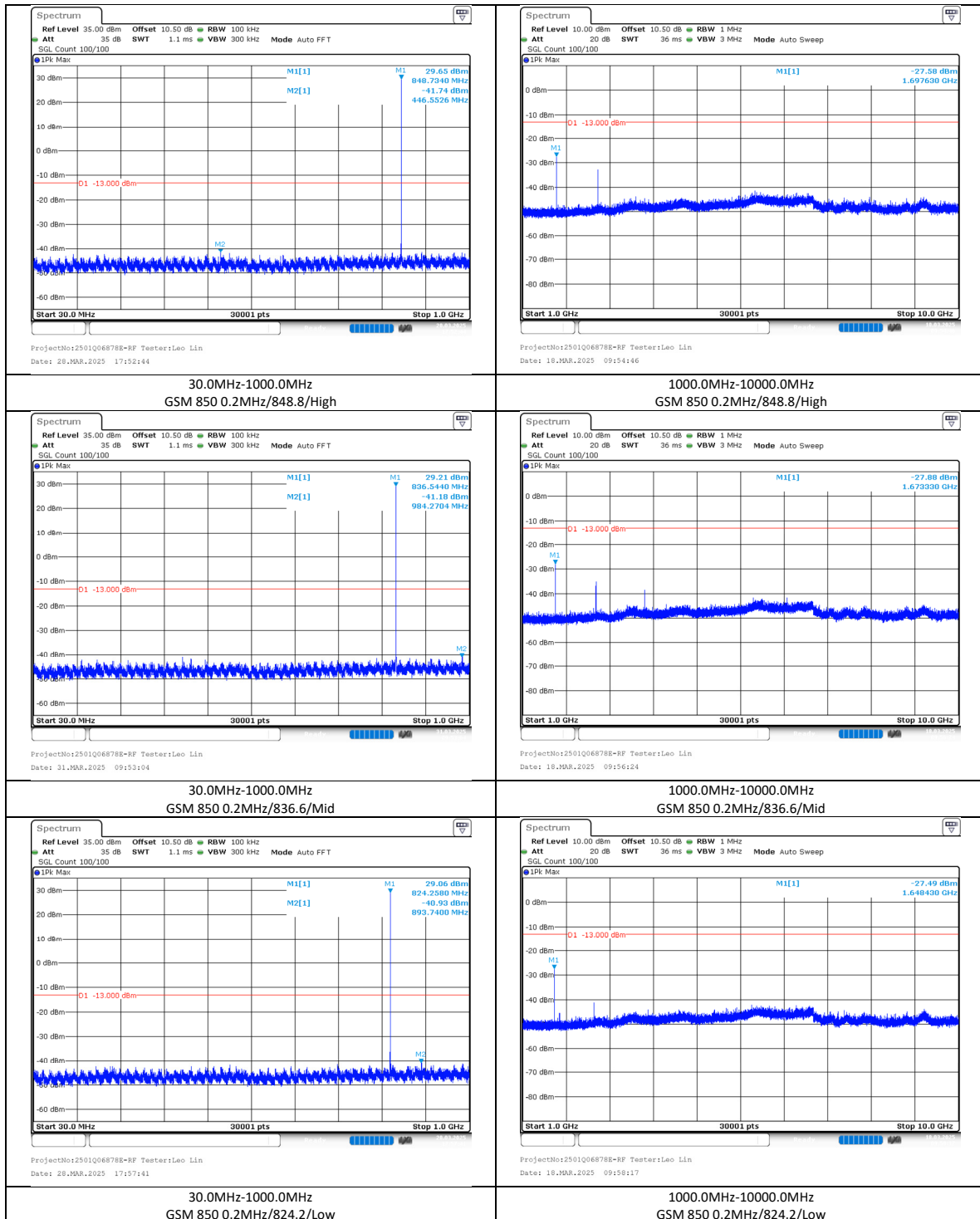
Band	Channel	Freq (MHz)	Result (dB)	Limit (dB)	Verdict
GSM 850	251	848.8	2.48	13	PASS
GSM 850	190	836.6	2.45	13	PASS
GSM 850	128	824.2	2.23	13	PASS
PCS 1900	810	1909.8	2.42	13	PASS
PCS 1900	661	1880.0	2.42	13	PASS
PCS 1900	512	1850.2	2.48	13	PASS

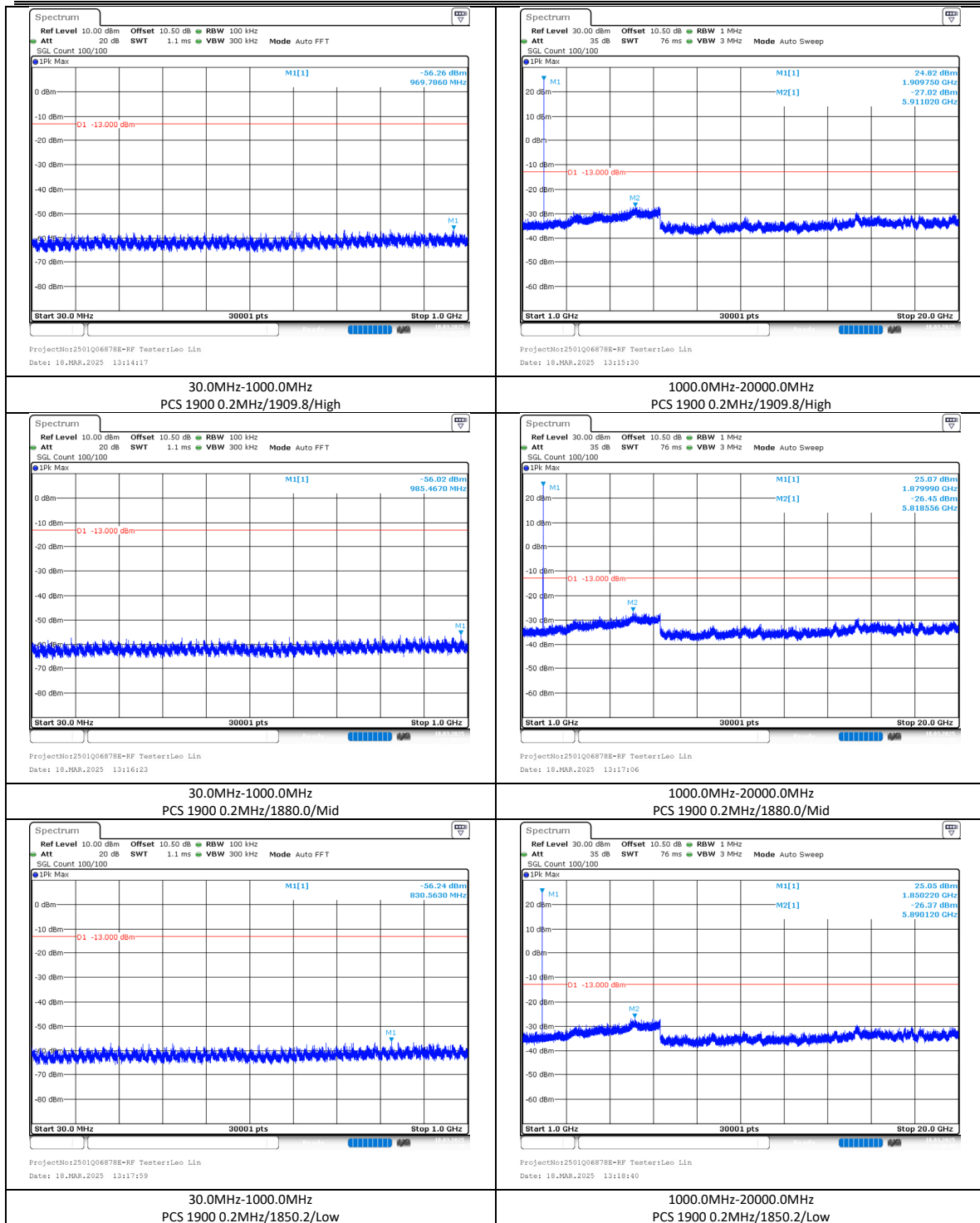
Occupied Bandwidth

Band	Channel	Freq (MHz)	OBW (MHz)	26dB BW (MHz)	Verdict
GSM 850	190	836.6	0.24313	0.3213	PASS
PCS 1900	661	1880.0	0.24023	0.3068	PASS



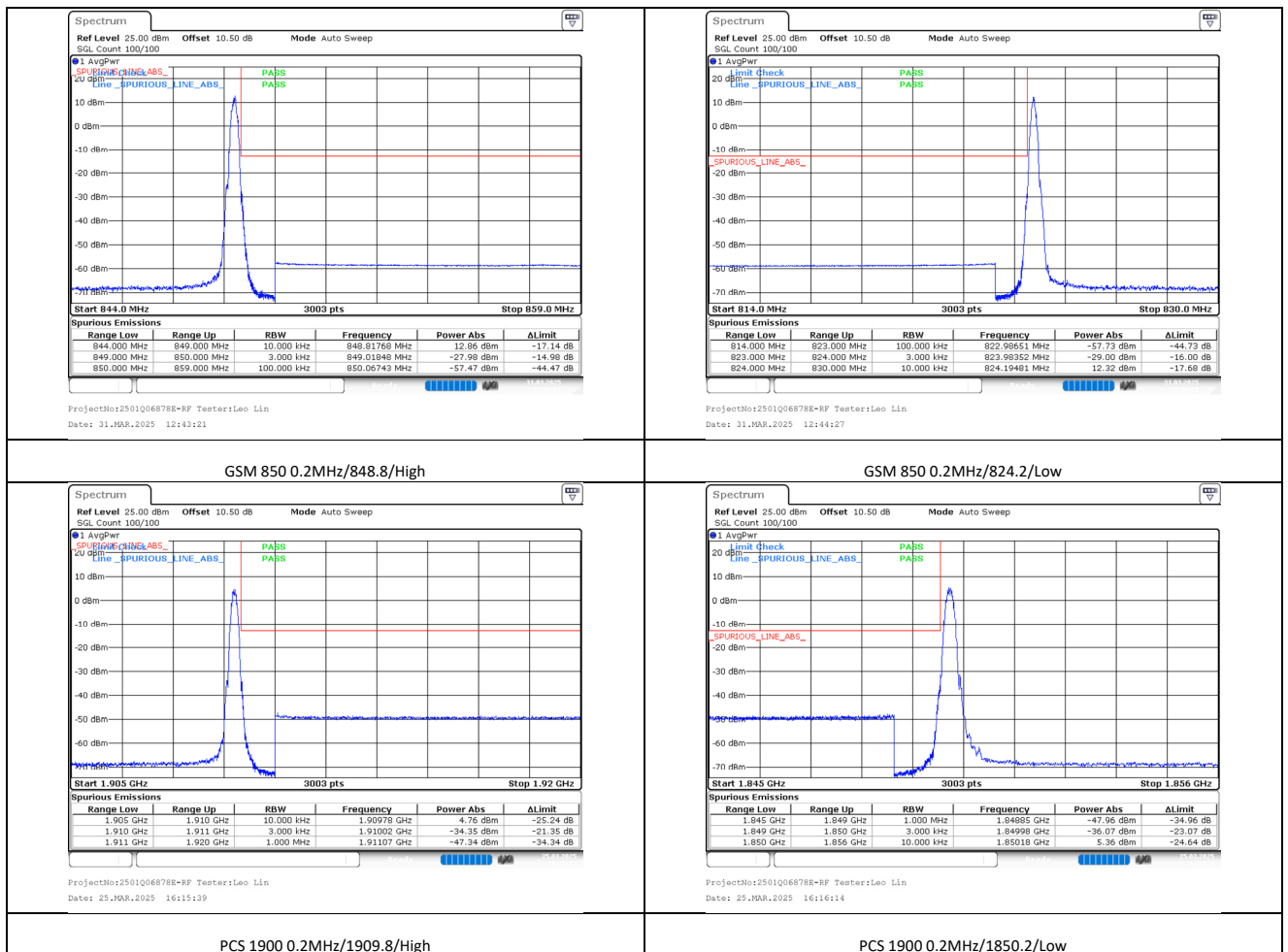
Conducted Spurious Emissions





Conducted Band Edge

Band	Channel	Freq (MHz)	Result	Verdict
GSM 850	251	848.8	see graph	PASS
GSM 850	128	824.2	see graph	PASS
PCS 1900	810	1909.8	see graph	PASS
PCS 1900	512	1850.2	see graph	PASS



Frequency Stability Error

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
GSM 850	251	848.8	0.46	0.00054	±2.5	PASS	20°C/4.48V
GSM 850	251	848.8	1.36	0.00160	±2.5	PASS	20°C/3.45V
GSM 850	251	848.8	-2.52	-0.00297	±2.5	PASS	50°C/3.89V
GSM 850	251	848.8	1.61	0.00190	±2.5	PASS	40°C/3.89V
GSM 850	251	848.8	-3.92	-0.00462	±2.5	PASS	30°C/3.89V
GSM 850	251	848.8	-6.46	-0.00761	±2.5	PASS	20°C/3.89V
GSM 850	251	848.8	0.13	0.00015	±2.5	PASS	10°C/3.89V
GSM 850	251	848.8	-1.65	-0.00194	±2.5	PASS	0°C/3.89V
GSM 850	251	848.8	0.83	0.00098	±2.5	PASS	-10°C/3.89V
GSM 850	251	848.8	-1.59	-0.00187	±2.5	PASS	-20°C/3.89V
GSM 850	251	848.8	-4.66	-0.00549	±2.5	PASS	-30°C/3.89V
GSM 850	190	836.6	-0.39	-0.00047	±2.5	PASS	20°C/4.48V
GSM 850	190	836.6	0.55	0.00066	±2.5	PASS	20°C/3.45V
GSM 850	190	836.6	4.05	0.00484	±2.5	PASS	50°C/3.89V
GSM 850	190	836.6	-0.97	-0.00116	±2.5	PASS	40°C/3.89V
GSM 850	190	836.6	1.17	0.00140	±2.5	PASS	30°C/3.89V
GSM 850	190	836.6	2.45	0.00293	±2.5	PASS	20°C/3.89V
GSM 850	190	836.6	4.01	0.00479	±2.5	PASS	10°C/3.89V
GSM 850	190	836.6	1.08	0.00129	±2.5	PASS	0°C/3.89V
GSM 850	190	836.6	4.58	0.00547	±2.5	PASS	-10°C/3.89V
GSM 850	190	836.6	-1.33	-0.00159	±2.5	PASS	-20°C/3.89V
GSM 850	190	836.6	0.97	0.00116	±2.5	PASS	-30°C/3.89V
GSM 850	128	824.2	6.79	0.00824	±2.5	PASS	20°C/4.48V
GSM 850	128	824.2	-4.63	-0.00562	±2.5	PASS	20°C/3.45V
GSM 850	128	824.2	2.62	0.00318	±2.5	PASS	50°C/3.89V
GSM 850	128	824.2	-3.69	-0.00448	±2.5	PASS	40°C/3.89V
GSM 850	128	824.2	1.07	0.00130	±2.5	PASS	30°C/3.89V
GSM 850	128	824.2	0.70	0.00085	±2.5	PASS	20°C/3.89V
GSM 850	128	824.2	-0.05	-0.00006	±2.5	PASS	10°C/3.89V
GSM 850	128	824.2	0.24	0.00029	±2.5	PASS	0°C/3.89V
GSM 850	128	824.2	-1.29	-0.00157	±2.5	PASS	-10°C/3.89V
GSM 850	128	824.2	-4.32	-0.00524	±2.5	PASS	-20°C/3.89V
GSM 850	128	824.2	1.78	0.00216	±2.5	PASS	-30°C/3.89V

Frequency Stability Range

Band	Channel (Low/High)	Freq (MHz)	Lower Edge (MHz) (Result)	Limit (1850MHz)	Upper Edge (MHz) (Result)	Limit (1910MHz)	Environment
PCS 1900	512/810	1850.2/1909.8	1850.023	1850.000	1909.945	1910.000	20°C/4.48V
PCS 1900	512/810	1850.2/1909.8	1850.053	1850.000	1909.999	1910.000	20°C/3.45V
PCS 1900	512/810	1850.2/1909.8	1850.140	1850.000	1909.875	1910.000	50°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.200	1850.000	1909.913	1910.000	40°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.104	1850.000	1909.790	1910.000	30°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.097	1850.000	1909.818	1910.000	20°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.188	1850.000	1909.875	1910.000	10°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.102	1850.000	1909.837	1910.000	0°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.064	1850.000	1909.916	1910.000	-10°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.072	1850.000	1909.957	1910.000	-20°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.137	1850.000	1909.864	1910.000	-30°C/3.89V

Transmitter Conducted Output Power And ERP/EIRP GPRS

Band	Channel	Gamma	Freq (MHz)	Modulation	Slots	Conducted Power(dBm)	ERP/EIRP (dBm)	ERP/EIRP(limit) (dBm)	Verdict
GSM 850	251	3	848.8	GMSK	1 Tx	30.10	23.63	38.45	PASS
GSM 850	251	3	848.8	GMSK	2 Tx	30.09	23.62	38.45	PASS
GSM 850	251	3	848.8	GMSK	3 Tx	30.08	23.61	38.45	PASS
GSM 850	251	3	848.8	GMSK	4 Tx	30.04	23.57	38.45	PASS
GSM 850	190	3	836.6	GMSK	1 Tx	29.95	23.48	38.45	PASS
GSM 850	190	3	836.6	GMSK	2 Tx	29.92	23.45	38.45	PASS
GSM 850	190	3	836.6	GMSK	3 Tx	29.90	23.43	38.45	PASS
GSM 850	190	3	836.6	GMSK	4 Tx	29.85	23.38	38.45	PASS
GSM 850	128	3	824.2	GMSK	1 Tx	29.93	23.46	38.45	PASS
GSM 850	128	3	824.2	GMSK	2 Tx	29.91	23.44	38.45	PASS
GSM 850	128	3	824.2	GMSK	3 Tx	29.88	23.41	38.45	PASS
GSM 850	128	3	824.2	GMSK	4 Tx	29.83	23.36	38.45	PASS
PCS 1900	810	3	1909.8	GMSK	1 Tx	25.17	23.47	33.01	PASS
PCS 1900	810	3	1909.8	GMSK	2 Tx	25.02	23.32	33.01	PASS
PCS 1900	810	3	1909.8	GMSK	3 Tx	24.98	23.28	33.01	PASS
PCS 1900	810	3	1909.8	GMSK	4 Tx	24.81	23.11	33.01	PASS
PCS 1900	661	3	1880.0	GMSK	1 Tx	25.26	23.56	33.01	PASS
PCS 1900	661	3	1880.0	GMSK	2 Tx	25.15	23.45	33.01	PASS
PCS 1900	661	3	1880.0	GMSK	3 Tx	25.02	23.32	33.01	PASS
PCS 1900	661	3	1880.0	GMSK	4 Tx	24.94	23.24	33.01	PASS
PCS 1900	512	3	1850.2	GMSK	1 Tx	25.17	23.47	33.01	PASS
PCS 1900	512	3	1850.2	GMSK	2 Tx	25.10	23.40	33.01	PASS
PCS 1900	512	3	1850.2	GMSK	3 Tx	24.99	23.29	33.01	PASS
PCS 1900	512	3	1850.2	GMSK	4 Tx	24.93	23.23	33.01	PASS

Note:

1. Antenna Gain: GSM850= -4.32dBi, PCS1900= -1.70dBi
2. L_c: GSM850= 0dB, PCS1900= 0dB

Peak to Average Ratio GPRS

Band	Channel	Freq (MHz)	Slots	Result (dB)	Limit (dB)	Verdict
GSM 850	251	848.8	1 Tx	2.56	13	PASS
GSM 850	190	836.6	1 Tx	3.01	13	PASS
GSM 850	128	824.2	1 Tx	3.14	13	PASS
PCS 1900	810	1909.8	1 Tx	3.55	13	PASS
PCS 1900	661	1880.0	1 Tx	3.28	13	PASS
PCS 1900	512	1850.2	1 Tx	3.15	13	PASS

Transmitter Conducted Output Power And ERP/EIRP EGPRS

Band	Channel	Gamma	Freq (MHz)	Modulation	Slots	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP(limit) (dBm)	Verdict
GSM 850	251	6	848.8	8PSK	1 Tx	26.85	20.38	38.45	PASS
GSM 850	251	6	848.8	8PSK	2 Tx	26.00	19.53	38.45	PASS
GSM 850	251	6	848.8	8PSK	3 Tx	23.59	17.12	38.45	PASS
GSM 850	251	6	848.8	8PSK	4 Tx	22.29	15.82	38.45	PASS
GSM 850	190	6	836.6	8PSK	1 Tx	26.76	20.29	38.45	PASS
GSM 850	190	6	836.6	8PSK	2 Tx	25.78	19.31	38.45	PASS
GSM 850	190	6	836.6	8PSK	3 Tx	23.83	17.36	38.45	PASS
GSM 850	190	6	836.6	8PSK	4 Tx	22.99	16.52	38.45	PASS
GSM 850	128	6	824.2	8PSK	1 Tx	27.14	20.67	38.45	PASS
GSM 850	128	6	824.2	8PSK	2 Tx	26.19	19.72	38.45	PASS
GSM 850	128	6	824.2	8PSK	3 Tx	23.79	17.32	38.45	PASS
GSM 850	128	6	824.2	8PSK	4 Tx	22.94	16.47	38.45	PASS
PCS 1900	810	5	1909.8	8PSK	1 Tx	23.75	22.05	33.01	PASS
PCS 1900	810	5	1909.8	8PSK	2 Tx	23.61	21.91	33.01	PASS
PCS 1900	810	5	1909.8	8PSK	3 Tx	23.04	21.34	33.01	PASS
PCS 1900	810	5	1909.8	8PSK	4 Tx	22.01	20.31	33.01	PASS
PCS 1900	661	5	1880.0	8PSK	1 Tx	23.81	22.11	33.01	PASS
PCS 1900	661	5	1880.0	8PSK	2 Tx	23.68	21.98	33.01	PASS
PCS 1900	661	5	1880.0	8PSK	3 Tx	23.09	21.39	33.01	PASS
PCS 1900	661	5	1880.0	8PSK	4 Tx	22.09	20.39	33.01	PASS
PCS 1900	512	5	1850.2	8PSK	1 Tx	23.74	22.04	33.01	PASS
PCS 1900	512	5	1850.2	8PSK	2 Tx	23.62	21.92	33.01	PASS
PCS 1900	512	5	1850.2	8PSK	3 Tx	22.95	21.25	33.01	PASS
PCS 1900	512	5	1850.2	8PSK	4 Tx	21.93	20.23	33.01	PASS

Note:

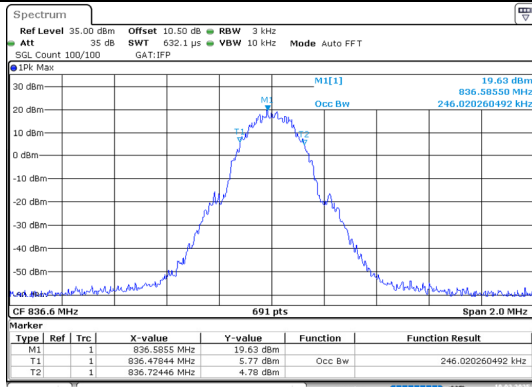
1. Antenna Gain: GSM850= -4.32dBi, PCS1900= -1.70dBi

2. L_c: GSM850= 0dB, PCS1900= 0dB**Peak to Average Ratio EGPRS**

Band	Channel	Freq (MHz)	Slots	Result (dB)	Limit (dB)	Verdict
GSM 850	251	848.8	1 Tx	3.32	13	PASS
GSM 850	190	836.6	1 Tx	3.19	13	PASS
GSM 850	128	824.2	1 Tx	3.12	13	PASS
PCS 1900	810	1909.8	1 Tx	3.97	13	PASS
PCS 1900	661	1880.0	1 Tx	3.57	13	PASS
PCS 1900	512	1850.2	1 Tx	3.74	13	PASS

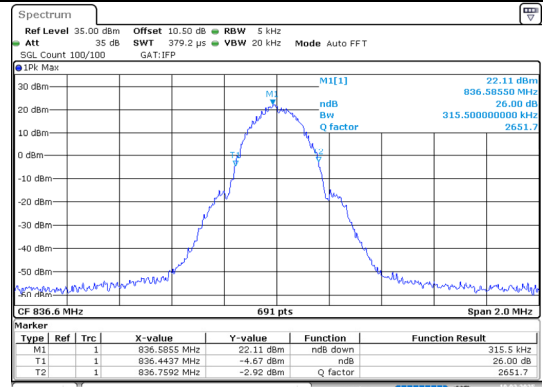
Occupied Bandwidth EGPRS

Band	Channel	Freq (MHz)	Slots	OBW (MHz)	26dB BW (MHz)	Verdict
GSM 850	190	836.6	1 Tx	0.24602	0.3155	PASS
PCS 1900	661	1880.0	1 Tx	0.24602	0.3155	PASS



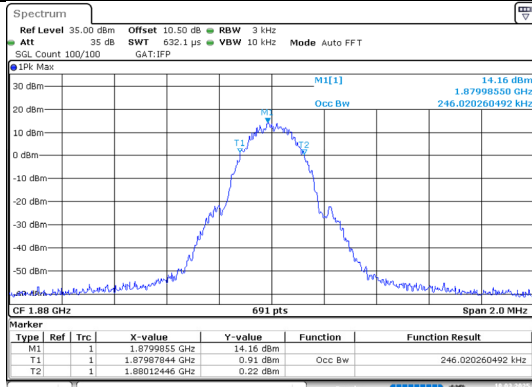
ProjectNo:2501Q06878E-RF Tester:Leo Lin
Date: 18.MAR.2025 14:31:09

99%OBW
GSM 850 0.2MHz/836.6/Mid



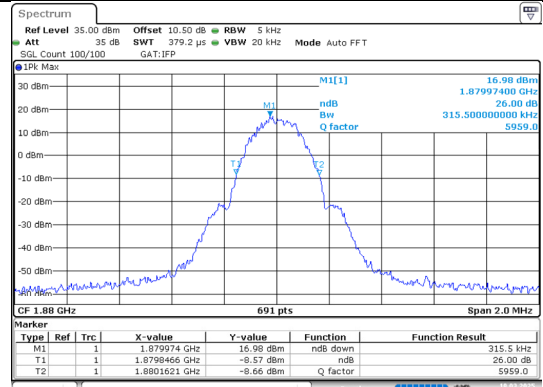
ProjectNo:2501Q06878E-RF Tester:Leo Lin
Date: 18.MAR.2025 14:31:41

26%OBW
GSM 850 0.2MHz/836.6/Mid



ProjectNo:2501Q06878E-RF Tester:Leo Lin
Date: 18.MAR.2025 14:33:18

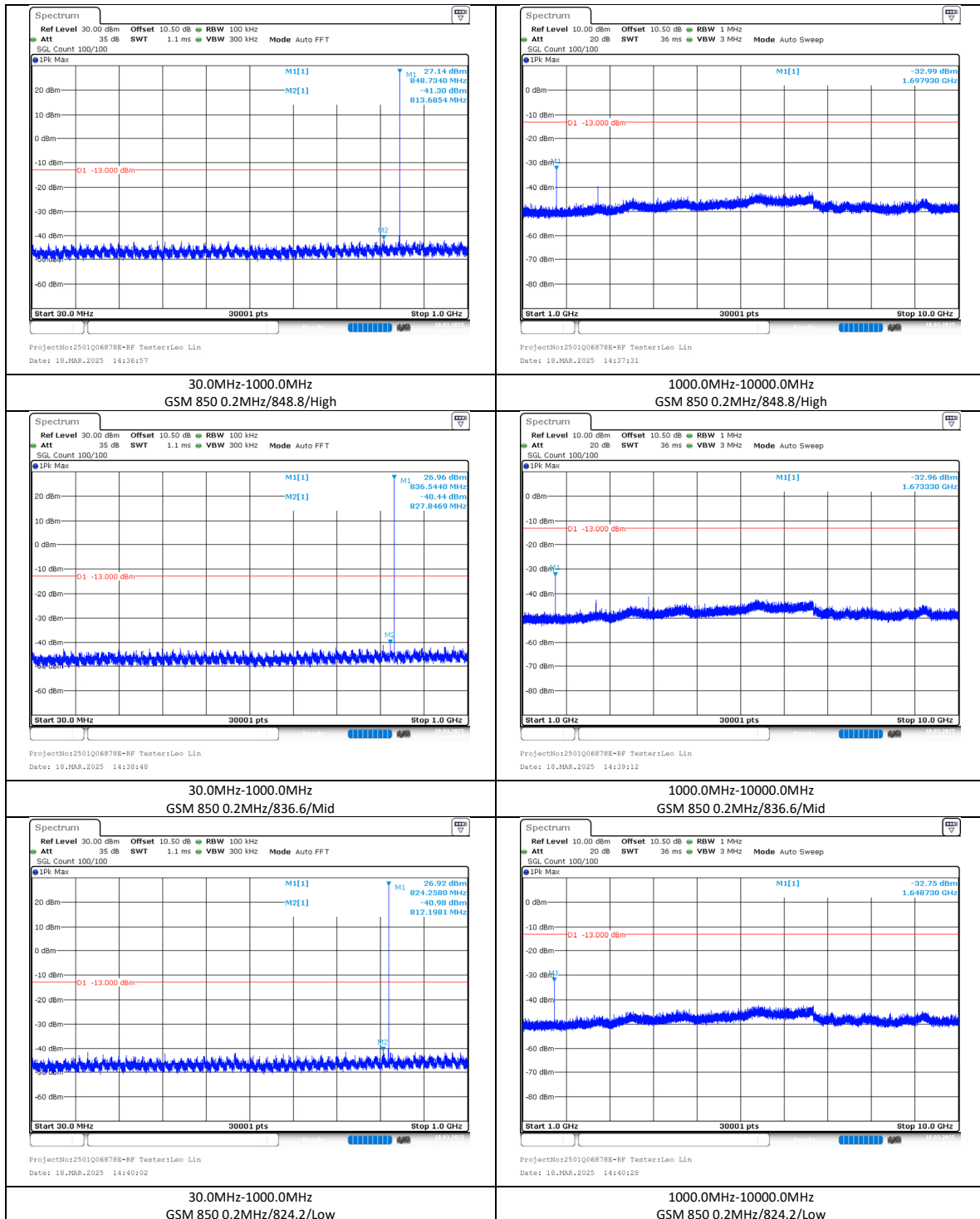
99%OBW
PCS 1900 0.2MHz/1880.0/Mid

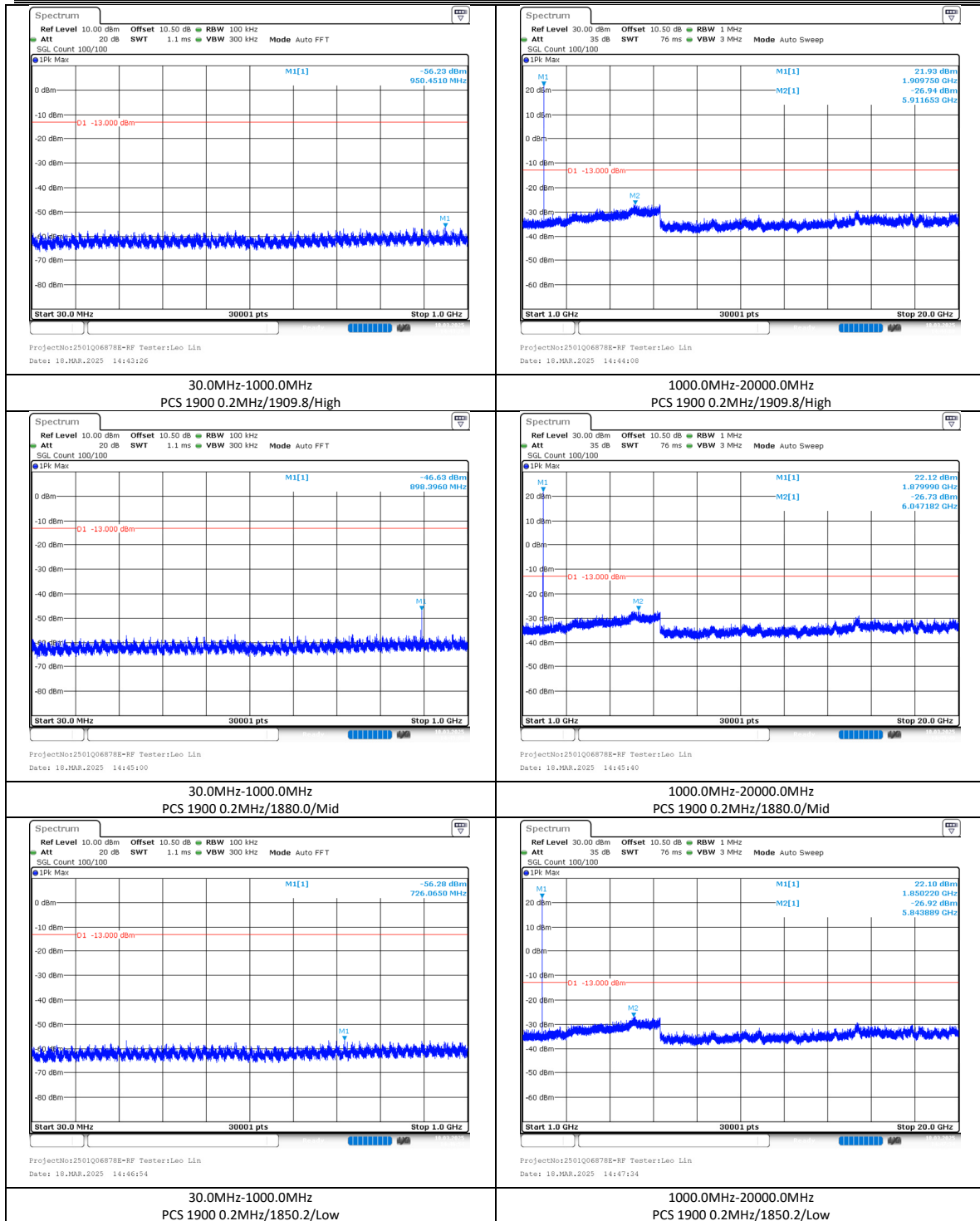


ProjectNo:2501Q06878E-RF Tester:Leo Lin
Date: 18.MAR.2025 14:34:12

26%OBW
PCS 1900 0.2MHz/1880.0/Mid

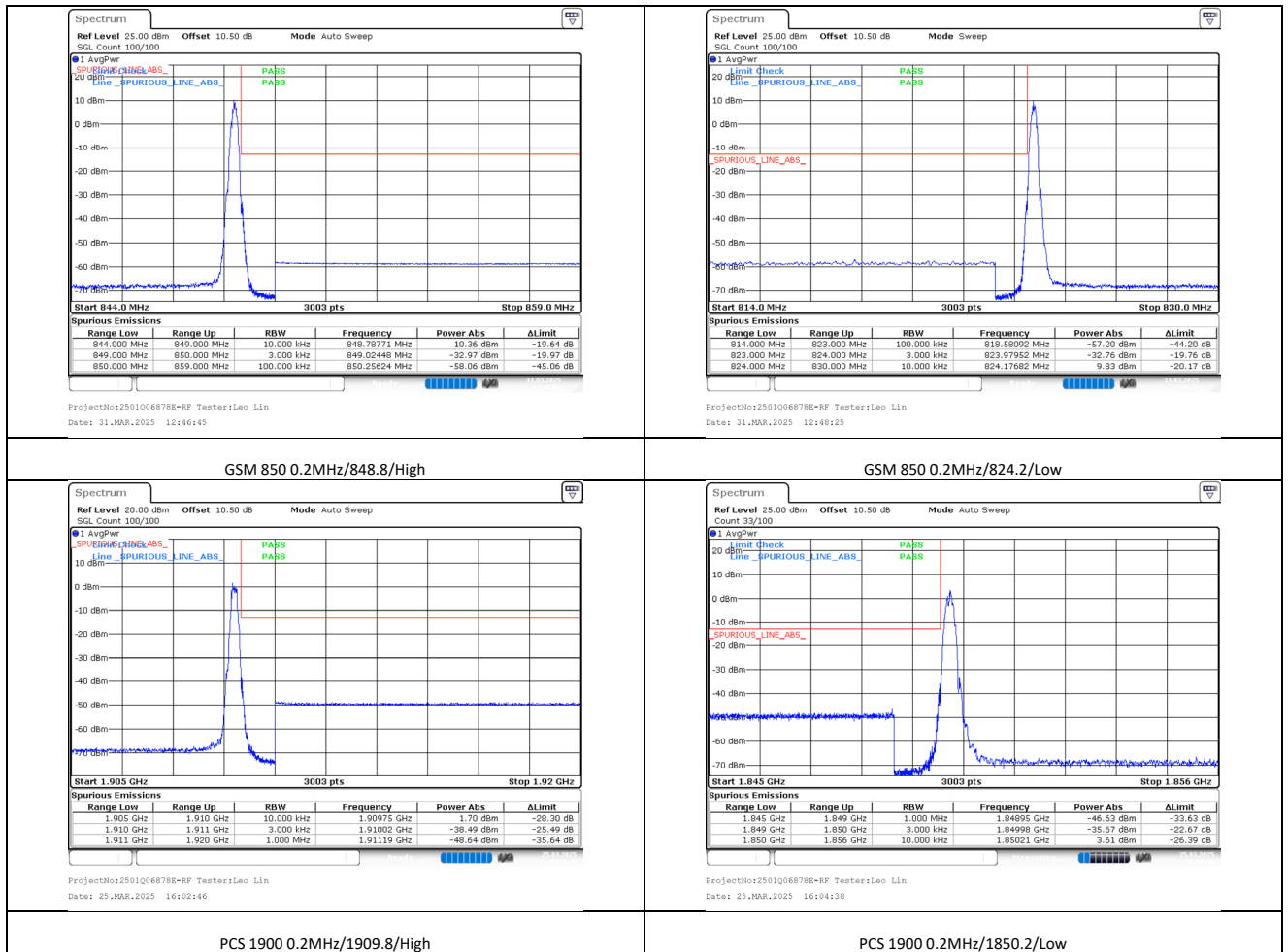
Conducted Spurious Emissions EGPRS





Conducted Band Edge EGPRS

Band	Channel	Freq (MHz)	Slots	Result	Verdict
GSM 850	251	848.8	1 Tx	see graph	PASS
GSM 850	128	824.2	1 Tx	see graph	PASS
PCS 1900	810	1909.8	1 Tx	see graph	PASS
PCS 1900	512	1850.2	1 Tx	see graph	PASS



Frequency Stability Error EGPRS

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
GSM 850	251	848.8	4.03	0.00475	±2.5	PASS	20℃/4.48V
GSM 850	251	848.8	-6.56	-0.00773	±2.5	PASS	20℃/3.45V
GSM 850	251	848.8	1.54	0.00181	±2.5	PASS	50℃/3.89V
GSM 850	251	848.8	-8.24	-0.00971	±2.5	PASS	40℃/3.89V
GSM 850	251	848.8	-1.62	-0.00191	±2.5	PASS	30℃/3.89V
GSM 850	251	848.8	4.27	0.00503	±2.5	PASS	20℃/3.89V
GSM 850	251	848.8	-4.24	-0.00500	±2.5	PASS	10℃/3.89V
GSM 850	251	848.8	6.85	0.00807	±2.5	PASS	0℃/3.89V
GSM 850	251	848.8	3.52	0.00415	±2.5	PASS	-10℃/3.89V
GSM 850	251	848.8	-5.65	-0.00666	±2.5	PASS	-20℃/3.89V
GSM 850	251	848.8	-4.44	-0.00523	±2.5	PASS	-30℃/3.89V
GSM 850	190	836.6	8.98	0.01073	±2.5	PASS	20℃/4.48V
GSM 850	190	836.6	7.64	0.00913	±2.5	PASS	20℃/3.45V
GSM 850	190	836.6	2.80	0.00335	±2.5	PASS	50℃/3.89V
GSM 850	190	836.6	6.50	0.00777	±2.5	PASS	40℃/3.89V
GSM 850	190	836.6	-3.26	-0.00390	±2.5	PASS	30℃/3.89V
GSM 850	190	836.6	-2.49	-0.00298	±2.5	PASS	20℃/3.89V
GSM 850	190	836.6	7.24	0.00865	±2.5	PASS	10℃/3.89V
GSM 850	190	836.6	3.15	0.00377	±2.5	PASS	0℃/3.89V
GSM 850	190	836.6	-9.76	-0.01167	±2.5	PASS	-10℃/3.89V
GSM 850	190	836.6	-1.90	-0.00227	±2.5	PASS	-20℃/3.89V
GSM 850	190	836.6	-0.52	-0.00062	±2.5	PASS	-30℃/3.89V
GSM 850	128	824.2	4.36	0.00529	±2.5	PASS	20℃/4.48V
GSM 850	128	824.2	8.94	0.01085	±2.5	PASS	20℃/3.45V
GSM 850	128	824.2	4.86	0.00590	±2.5	PASS	50℃/3.89V
GSM 850	128	824.2	-6.39	-0.00775	±2.5	PASS	40℃/3.89V
GSM 850	128	824.2	2.89	0.00351	±2.5	PASS	30℃/3.89V
GSM 850	128	824.2	7.86	0.00954	±2.5	PASS	20℃/3.89V
GSM 850	128	824.2	1.39	0.00169	±2.5	PASS	10℃/3.89V
GSM 850	128	824.2	-5.26	-0.00638	±2.5	PASS	0℃/3.89V
GSM 850	128	824.2	6.86	0.00832	±2.5	PASS	-10℃/3.89V
GSM 850	128	824.2	-3.25	-0.00394	±2.5	PASS	-20℃/3.89V
GSM 850	128	824.2	0.42	0.00051	±2.5	PASS	-30℃/3.89V

Frequency Stability Range EGPRS

Band	Channel (Low/High)	Freq (MHz)	Lower Edge (MHz) (Result)	Limit (1850MHz)	Upper Edge (MHz) (Result)	Limit (1910MHz)	Environment
PCS 1900	512/810	1850.2/1909.8	1850.041	1850.000	1909.952	1910.000	20°C/4.48V
PCS 1900	512/810	1850.2/1909.8	1850.051	1850.000	1909.987	1910.000	20°C/3.45V
PCS 1900	512/810	1850.2/1909.8	1850.149	1850.000	1909.856	1910.000	50°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.187	1850.000	1909.918	1910.000	40°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.153	1850.000	1909.797	1910.000	30°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.042	1850.000	1909.890	1910.000	20°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.163	1850.000	1909.919	1910.000	10°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.128	1850.000	1909.805	1910.000	0°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.029	1850.000	1909.887	1910.000	-10°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.061	1850.000	1909.984	1910.000	-20°C/3.89V
PCS 1900	512/810	1850.2/1909.8	1850.176	1850.000	1909.842	1910.000	-30°C/3.89V