

Test Information:

Sample No.:	2WGK-1	Test Date:	2025/1/13
Test Site:	RF	Test Mode:	Transmitting
Tester:	Leo Lin	Test Result:	PASS

Environmental Conditions:

Temperature: (°C):	25.2	Relative Humidity: (%)	41	ATM Pressure: (kPa)	101.6
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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	31.75	30.08	38.45	PASS
GSM 850	190	5	836.6	30.99	29.32	38.45	PASS
GSM 850	128	5	824.2	30.91	29.24	38.45	PASS
PCS 1900	810	0	1909.8	22.90	23.90	33	PASS
PCS 1900	661	0	1880.0	23.27	24.27	33	PASS
PCS 1900	512	0	1850.2	23.63	24.63	33	PASS
Note: The ERP is for below 1GHz, EIRP is for above 1GHz $EIRP = \text{Conducted Power(dBm)} - L_c(\text{dB}) + G_T(\text{dBi})$ $ERP = \text{Conducted Power(dBm)} - L_c(\text{dB}) + G_T(\text{dBd})$ $G_T(\text{dBd}) = G_T(\text{dBi}) - 2.15$							

Transmitter Conducted Output Power And ERP/EIRP GPRS

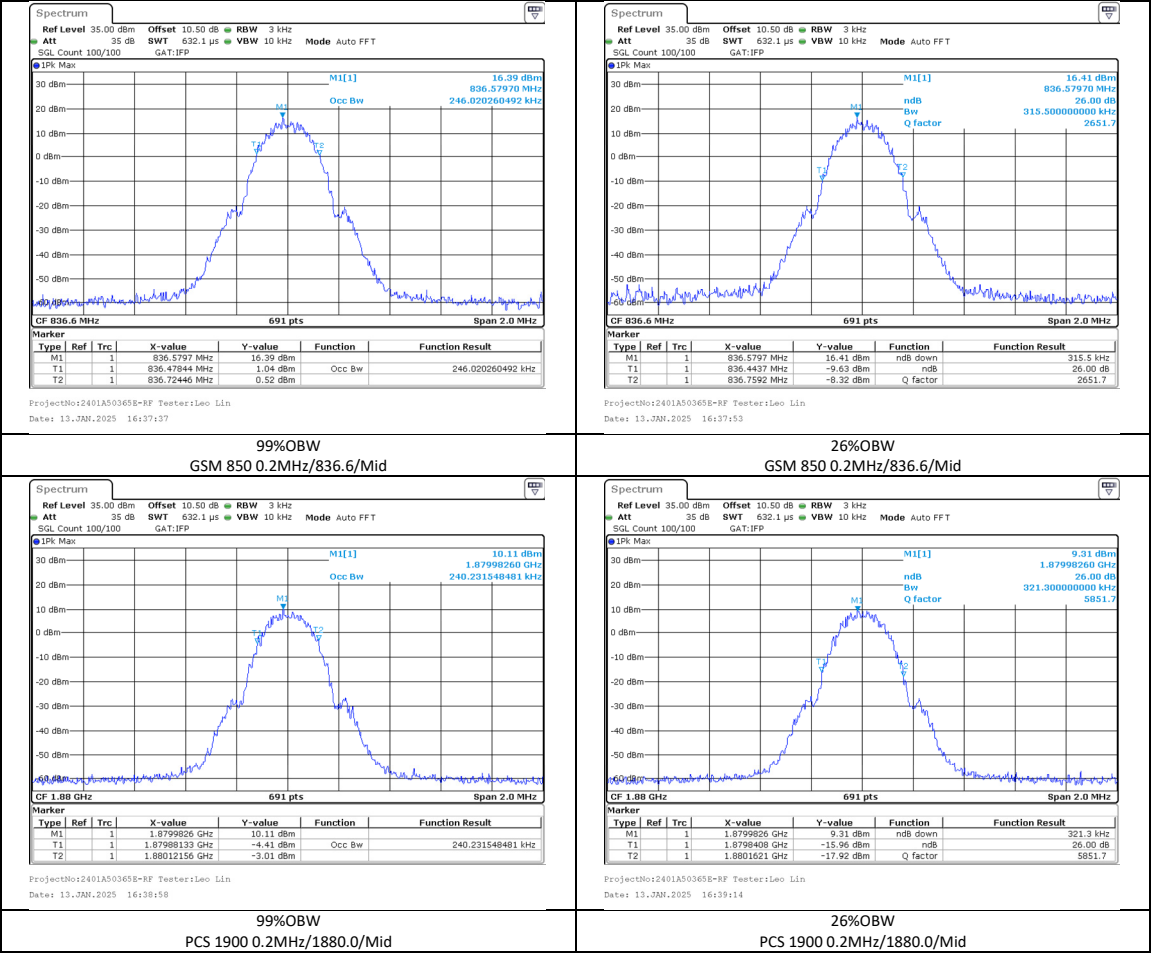
Band	Channel	Gamma	Freq (MHz)	Modulation	Slots	Conducted Power(dBm)	ERP/EIRP (dBm)	ERP/EIRP(limit) (dBm)	Verdict
GSM 850	251	3	848.8	GMSK	1 Tx	31.11	29.44	38.45	PASS
GSM 850	251	3	848.8	GMSK	2 Tx	30.25	28.58	38.45	PASS
GSM 850	251	3	848.8	GMSK	3 Tx	28.51	26.84	38.45	PASS
GSM 850	251	3	848.8	GMSK	4 Tx	26.59	24.92	38.45	PASS
GSM 850	190	3	836.6	GMSK	1 Tx	31.00	29.33	38.45	PASS
GSM 850	190	3	836.6	GMSK	2 Tx	30.13	28.46	38.45	PASS
GSM 850	190	3	836.6	GMSK	3 Tx	28.44	26.77	38.45	PASS
GSM 850	190	3	836.6	GMSK	4 Tx	26.59	24.92	38.45	PASS
GSM 850	128	3	824.2	GMSK	1 Tx	30.92	29.25	38.45	PASS
GSM 850	128	3	824.2	GMSK	2 Tx	30.05	28.38	38.45	PASS
GSM 850	128	3	824.2	GMSK	3 Tx	28.34	26.67	38.45	PASS
GSM 850	128	3	824.2	GMSK	4 Tx	26.53	24.86	38.45	PASS
PCS 1900	810	3	1909.8	GMSK	1 Tx	23.52	24.52	33	PASS
PCS 1900	810	3	1909.8	GMSK	2 Tx	23.05	24.05	33	PASS
PCS 1900	810	3	1909.8	GMSK	3 Tx	22.02	23.02	33	PASS
PCS 1900	810	3	1909.8	GMSK	4 Tx	19.89	20.89	33	PASS
PCS 1900	661	3	1880.0	GMSK	1 Tx	23.40	24.40	33	PASS
PCS 1900	661	3	1880.0	GMSK	2 Tx	23.01	24.01	33	PASS
PCS 1900	661	3	1880.0	GMSK	3 Tx	22.12	23.12	33	PASS
PCS 1900	661	3	1880.0	GMSK	4 Tx	19.79	20.79	33	PASS
PCS 1900	512	3	1850.2	GMSK	1 Tx	23.62	24.62	33	PASS
PCS 1900	512	3	1850.2	GMSK	2 Tx	22.95	23.95	33	PASS
PCS 1900	512	3	1850.2	GMSK	3 Tx	22.17	23.17	33	PASS
PCS 1900	512	3	1850.2	GMSK	4 Tx	20.09	21.09	33	PASS
Note: The ERP is for below 1GHz, EIRP is for above 1GHz $EIRP = \text{Conducted Power(dBm)} - L_c(\text{dB}) + G_T(\text{dBi})$ $ERP = \text{Conducted Power(dBm)} - L_c(\text{dB}) + G_T(\text{dBd})$ $G_T(\text{dBd}) = G_T(\text{dBi}) - 2.15$									

Peak to Average Ratio

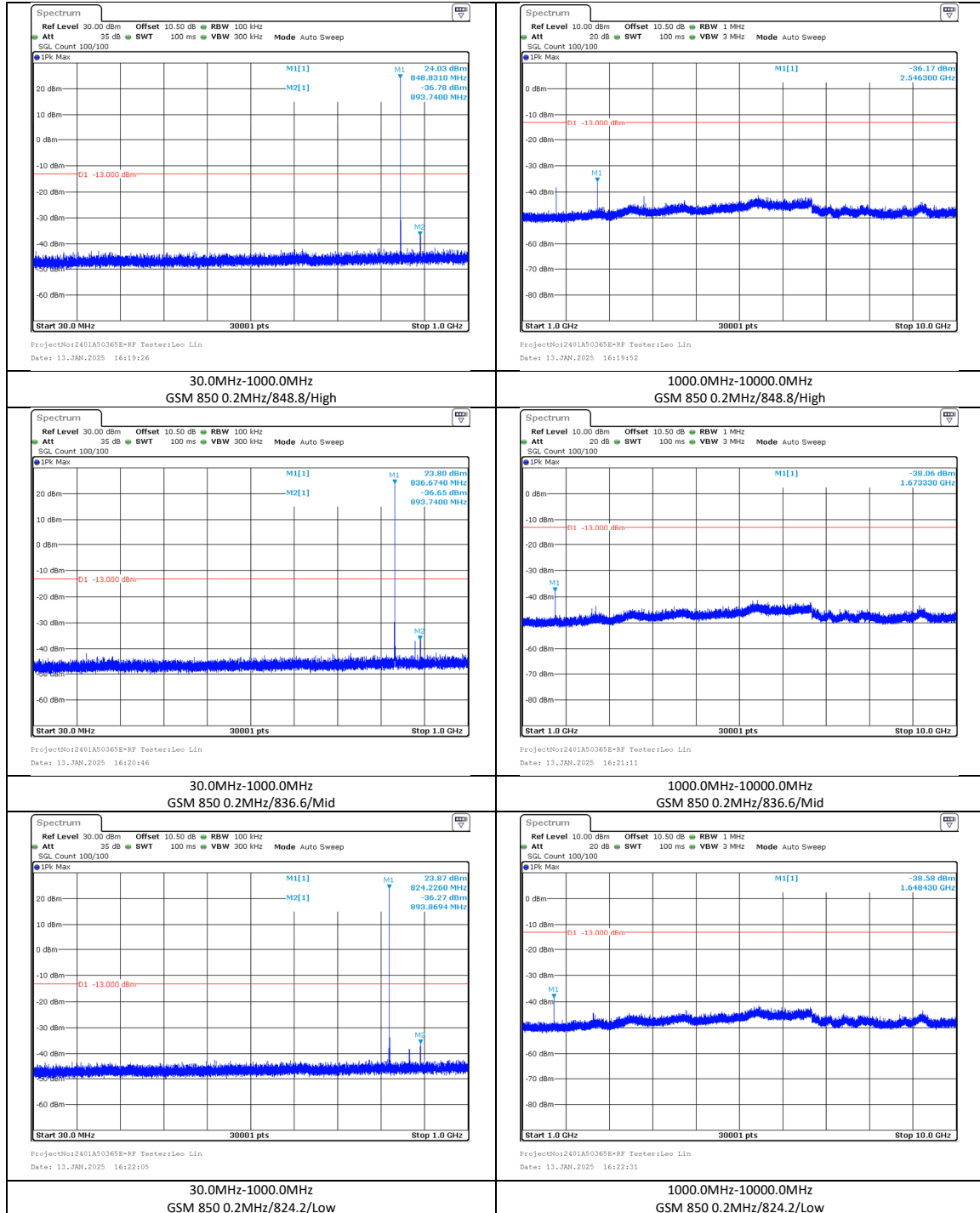
Band	Channel	Freq (MHz)	Result (dB)	Limit (dB)	Verdict
GSM 850	251	848.8	2.38	13	PASS
GSM 850	190	836.6	2.42	13	PASS
GSM 850	128	824.2	2.40	13	PASS
PCS 1900	810	1909.8	2.36	13	PASS
PCS 1900	661	1880.0	2.37	13	PASS
PCS 1900	512	1850.2	2.43	13	PASS

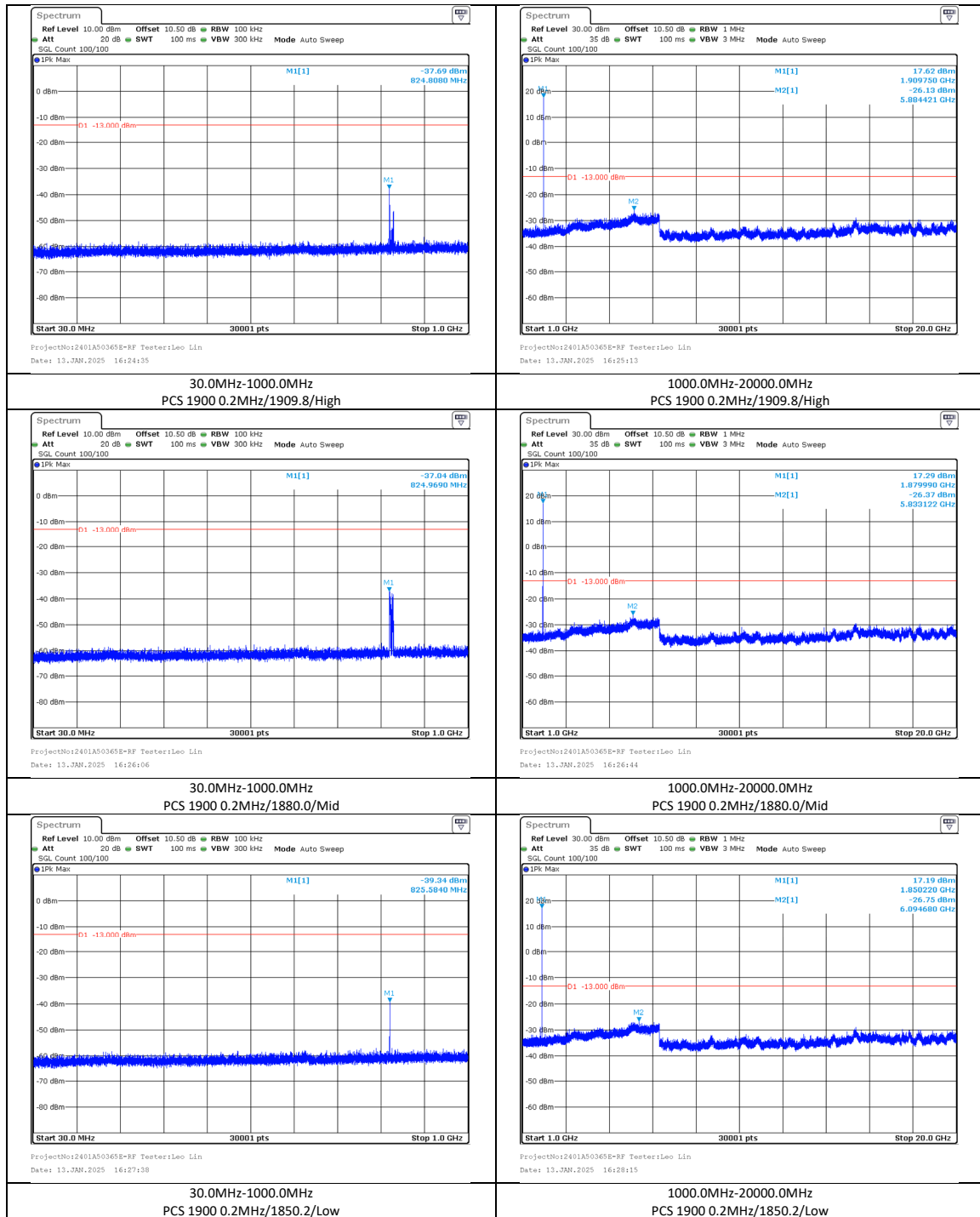
Occupied Bandwidth

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	0.24023	0.3213	PASS



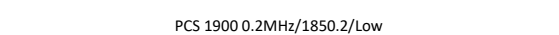
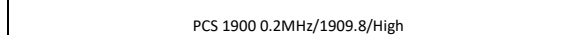
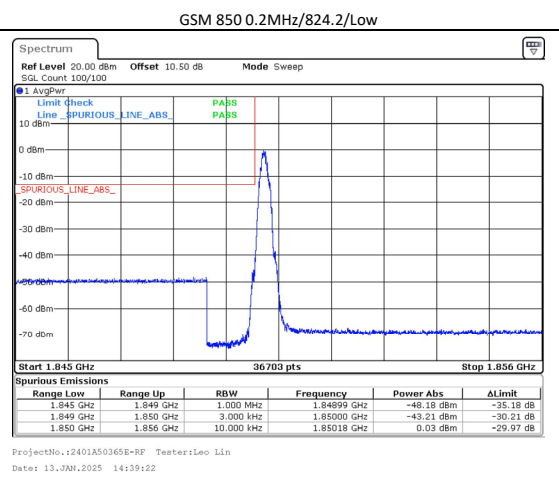
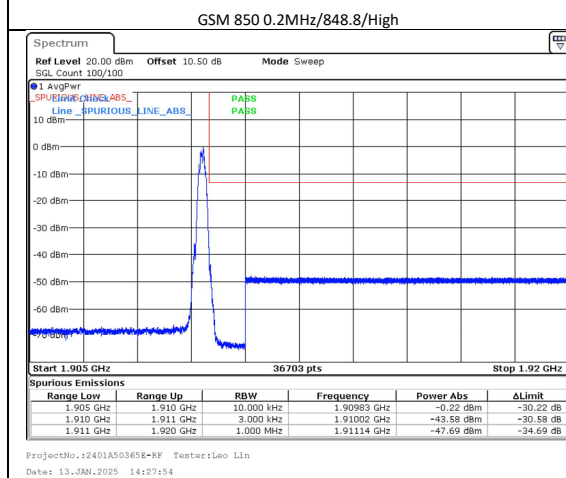
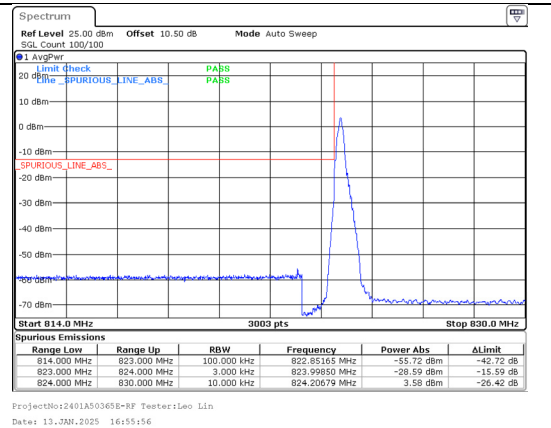
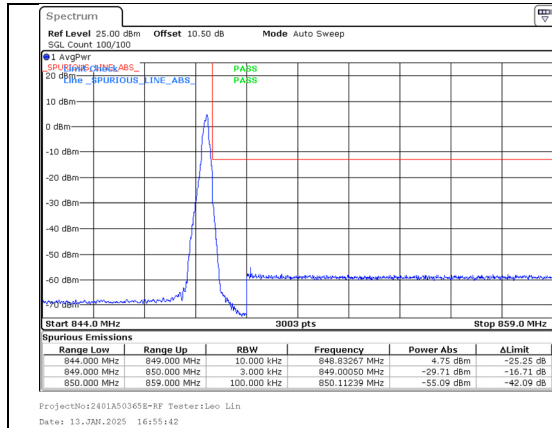
Conducted Spurious Emissions





Conducted Band Edge

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

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
GSM 850	251	848.8	4.67	0.006	±2.5	PASS	20°C/4.2V
GSM 850	251	848.8	-7.47	-0.009	±2.5	PASS	20°C/3.4V
GSM 850	251	848.8	1.70	0.002	±2.5	PASS	50°C/3.7V
GSM 850	251	848.8	8.85	0.010	±2.5	PASS	40°C/3.7V
GSM 850	251	848.8	7.31	0.009	±2.5	PASS	30°C/3.7V
GSM 850	251	848.8	4.06	0.005	±2.5	PASS	20°C/3.7V
GSM 850	251	848.8	-9.86	-0.012	±2.5	PASS	10°C/3.7V
GSM 850	251	848.8	5.82	0.007	±2.5	PASS	0°C/3.7V
GSM 850	251	848.8	-0.37	0.000	±2.5	PASS	-10°C/3.7V
GSM 850	251	848.8	-0.13	0.000	±2.5	PASS	-20°C/3.7V
GSM 850	251	848.8	-5.77	-0.007	±2.5	PASS	-30°C/3.7V
GSM 850	190	836.6	6.22	0.007	±2.5	PASS	20°C/4.2V
GSM 850	190	836.6	4.91	0.006	±2.5	PASS	20°C/3.4V
GSM 850	190	836.6	4.23	0.005	±2.5	PASS	50°C/3.7V
GSM 850	190	836.6	7.03	0.008	±2.5	PASS	40°C/3.7V
GSM 850	190	836.6	-6.99	-0.008	±2.5	PASS	30°C/3.7V
GSM 850	190	836.6	4.90	0.006	±2.5	PASS	20°C/3.7V
GSM 850	190	836.6	-8.07	-0.010	±2.5	PASS	10°C/3.7V
GSM 850	190	836.6	-5.62	-0.007	±2.5	PASS	0°C/3.7V
GSM 850	190	836.6	4.36	0.005	±2.5	PASS	-10°C/3.7V
GSM 850	190	836.6	0.91	0.001	±2.5	PASS	-20°C/3.7V
GSM 850	190	836.6	-5.82	-0.007	±2.5	PASS	-30°C/3.7V
GSM 850	128	824.2	-9.27	-0.011	±2.5	PASS	20°C/4.2V
GSM 850	128	824.2	5.58	0.007	±2.5	PASS	20°C/3.4V
GSM 850	128	824.2	8.42	0.010	±2.5	PASS	50°C/3.7V
GSM 850	128	824.2	-2.59	-0.003	±2.5	PASS	40°C/3.7V
GSM 850	128	824.2	-9.46	-0.011	±2.5	PASS	30°C/3.7V
GSM 850	128	824.2	-9.46	-0.011	±2.5	PASS	20°C/3.7V
GSM 850	128	824.2	4.09	0.005	±2.5	PASS	10°C/3.7V
GSM 850	128	824.2	7.51	0.009	±2.5	PASS	0°C/3.7V
GSM 850	128	824.2	-0.58	-0.001	±2.5	PASS	-10°C/3.7V
GSM 850	128	824.2	2.46	0.003	±2.5	PASS	-20°C/3.7V
GSM 850	128	824.2	-8.96	-0.011	±2.5	PASS	-30°C/3.7V

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	1850.164	1850.000	1909.918	1910.000	20°C/4.2V
PCS 1900	512/810	1850.2/1909.8	1850.170	1850.000	1909.842	1910.000	20°C/3.4V
PCS 1900	512/810	1850.2/1909.8	1850.137	1850.000	1909.906	1910.000	50°C/3.7V
PCS 1900	512/810	1850.2/1909.8	1850.182	1850.000	1909.826	1910.000	40°C/3.7V
PCS 1900	512/810	1850.2/1909.8	1850.101	1850.000	1909.814	1910.000	30°C/3.7V
PCS 1900	512/810	1850.2/1909.8	1850.080	1850.000	1909.920	1910.000	20°C/3.7V
PCS 1900	512/810	1850.2/1909.8	1850.109	1850.000	1909.836	1910.000	10°C/3.7V
PCS 1900	512/810	1850.2/1909.8	1850.091	1850.000	1909.805	1910.000	0°C/3.7V
PCS 1900	512/810	1850.2/1909.8	1850.109	1850.000	1909.918	1910.000	-10°C/3.7V
PCS 1900	512/810	1850.2/1909.8	1850.064	1850.000	1909.838	1910.000	-20°C/3.7V
PCS 1900	512/810	1850.2/1909.8	1850.080	1850.000	1909.923	1910.000	-30°C/3.7V