

Transmitter Conducted Output Power

Test result

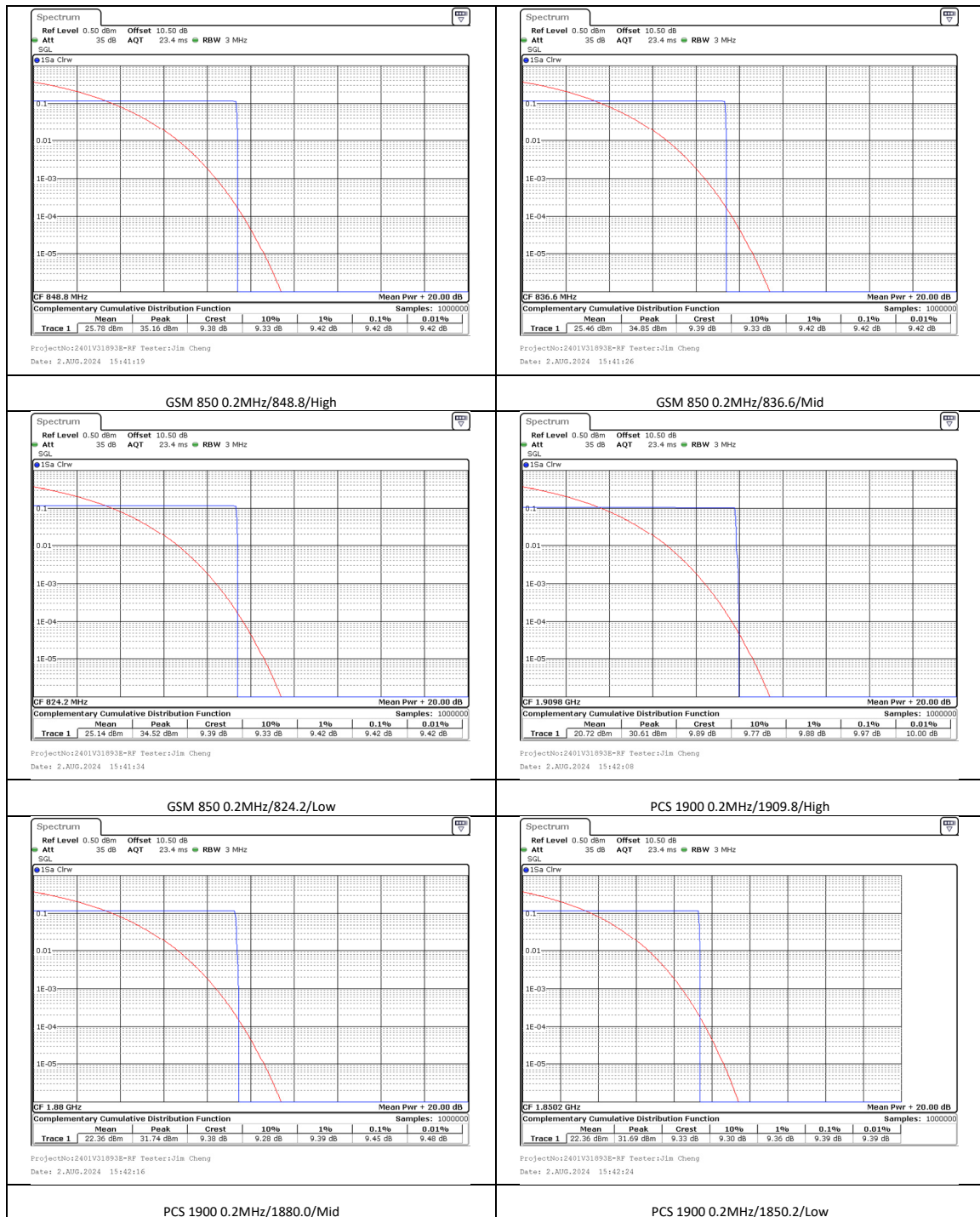
Band	Channel	PCL	Freq (MHz)	Conducted Power(dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GSM 850	251	5	848.8	32.37	24.79	38.45	PASS
GSM 850	190	5	836.6	32.44	24.86	38.45	PASS
GSM 850	128	5	824.2	32.44	24.86	38.45	PASS
PCS 1900	810	0	1909.8	28.94	27.78	33	PASS
PCS 1900	661	0	1880.0	28.93	27.77	33	PASS
PCS 1900	512	0	1850.2	28.68	27.52	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

Test result

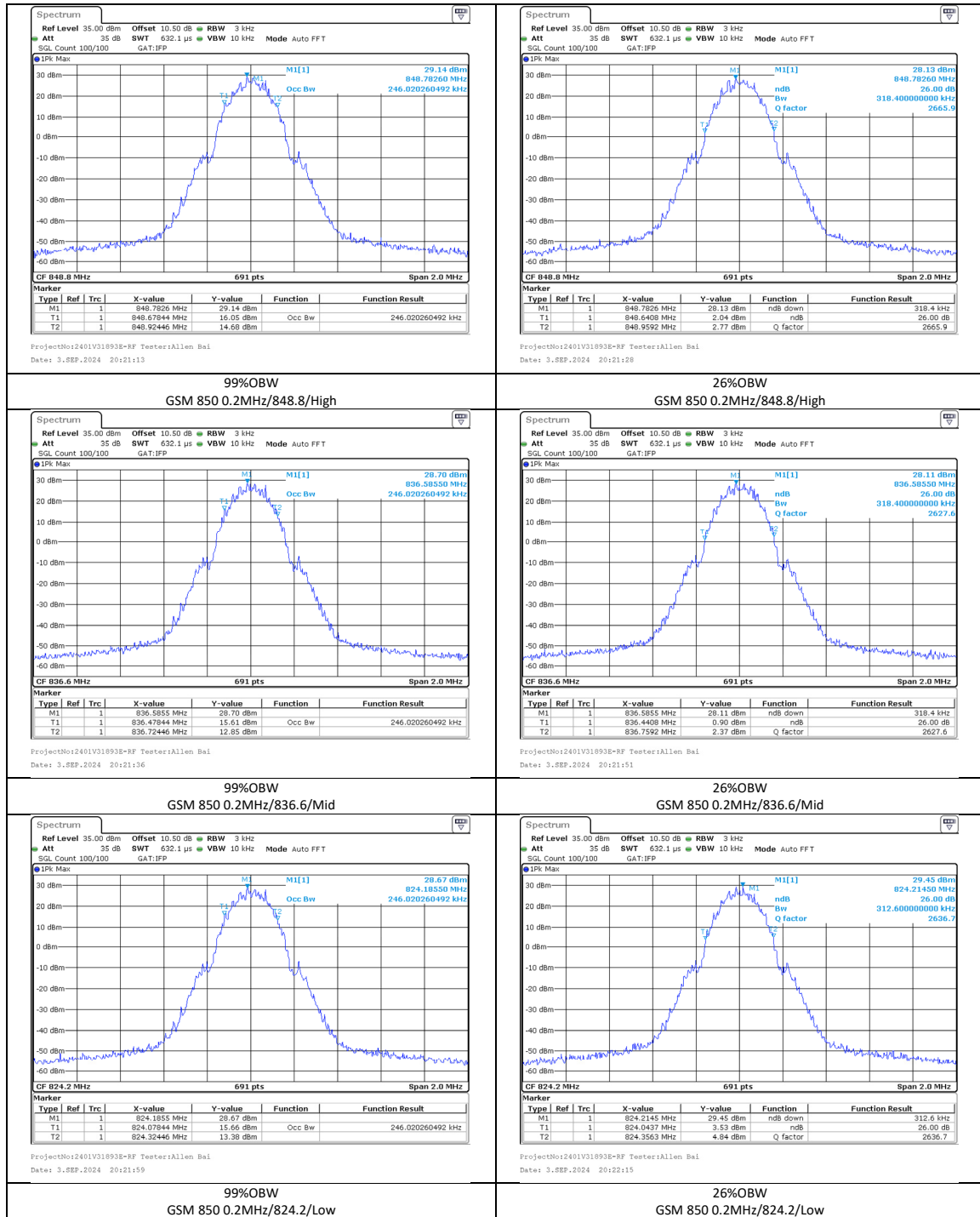
Band	Channel	Freq (MHz)	Result (dB)	Limit (dB)	Verdict
GSM 850	251	848.8	9.42	13	PASS
GSM 850	190	836.6	9.42	13	PASS
GSM 850	128	824.2	9.42	13	PASS
PCS 1900	810	1909.8	9.97	13	PASS
PCS 1900	661	1880.0	9.45	13	PASS
PCS 1900	512	1850.2	9.39	13	PASS

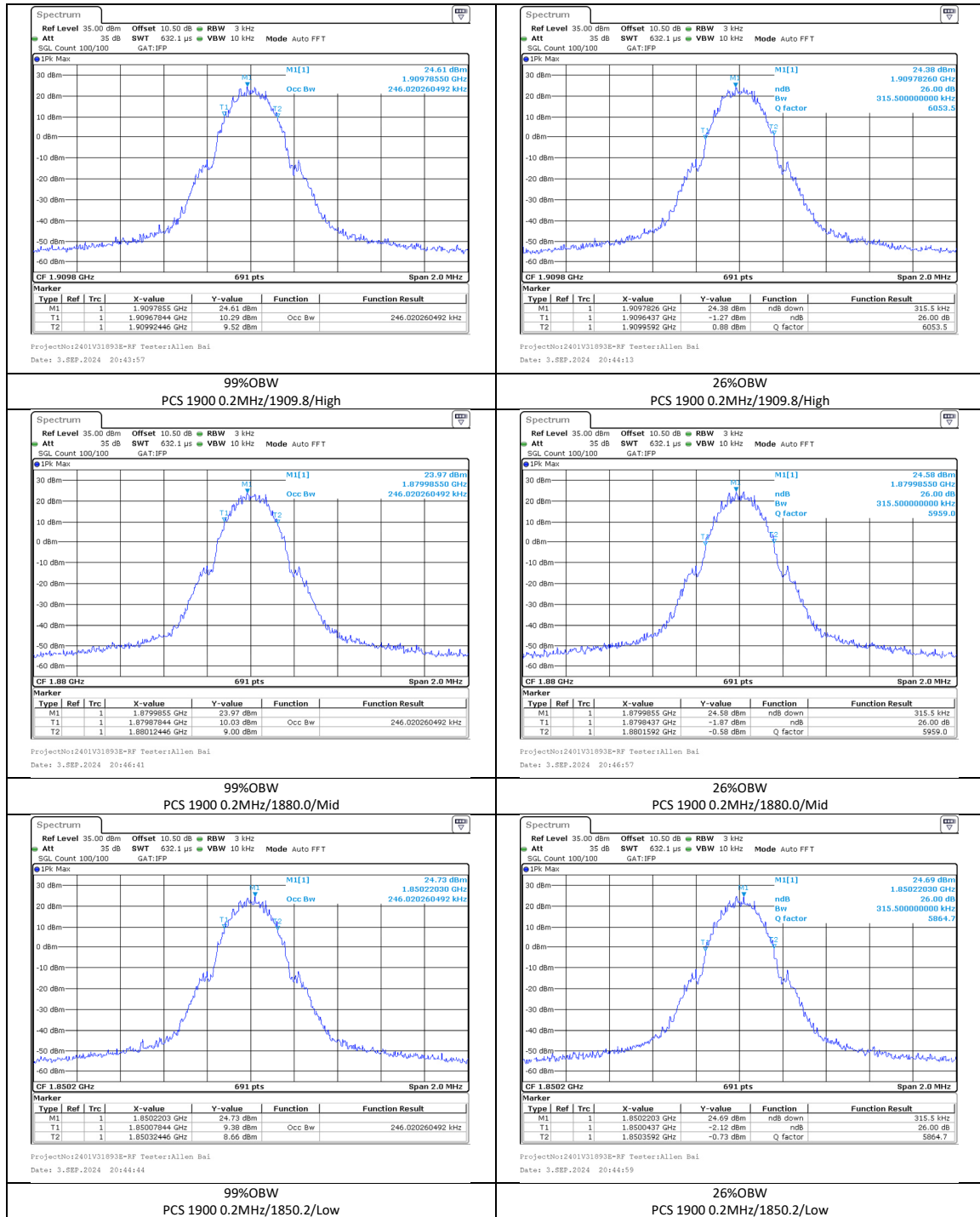
Test graph



Occupied Bandwidth

Band	Channel	Freq (MHz)	OBW (MHz)	26dB BW (MHz)	Verdict
GSM 850	251	848.8	0.24602	0.3184	PASS
GSM 850	190	836.6	0.24602	0.3184	PASS
GSM 850	128	824.2	0.24602	0.3126	PASS
PCS 1900	810	1909.8	0.24602	0.3155	PASS
PCS 1900	661	1880.0	0.24602	0.3155	PASS
PCS 1900	512	1850.2	0.24602	0.3155	PASS



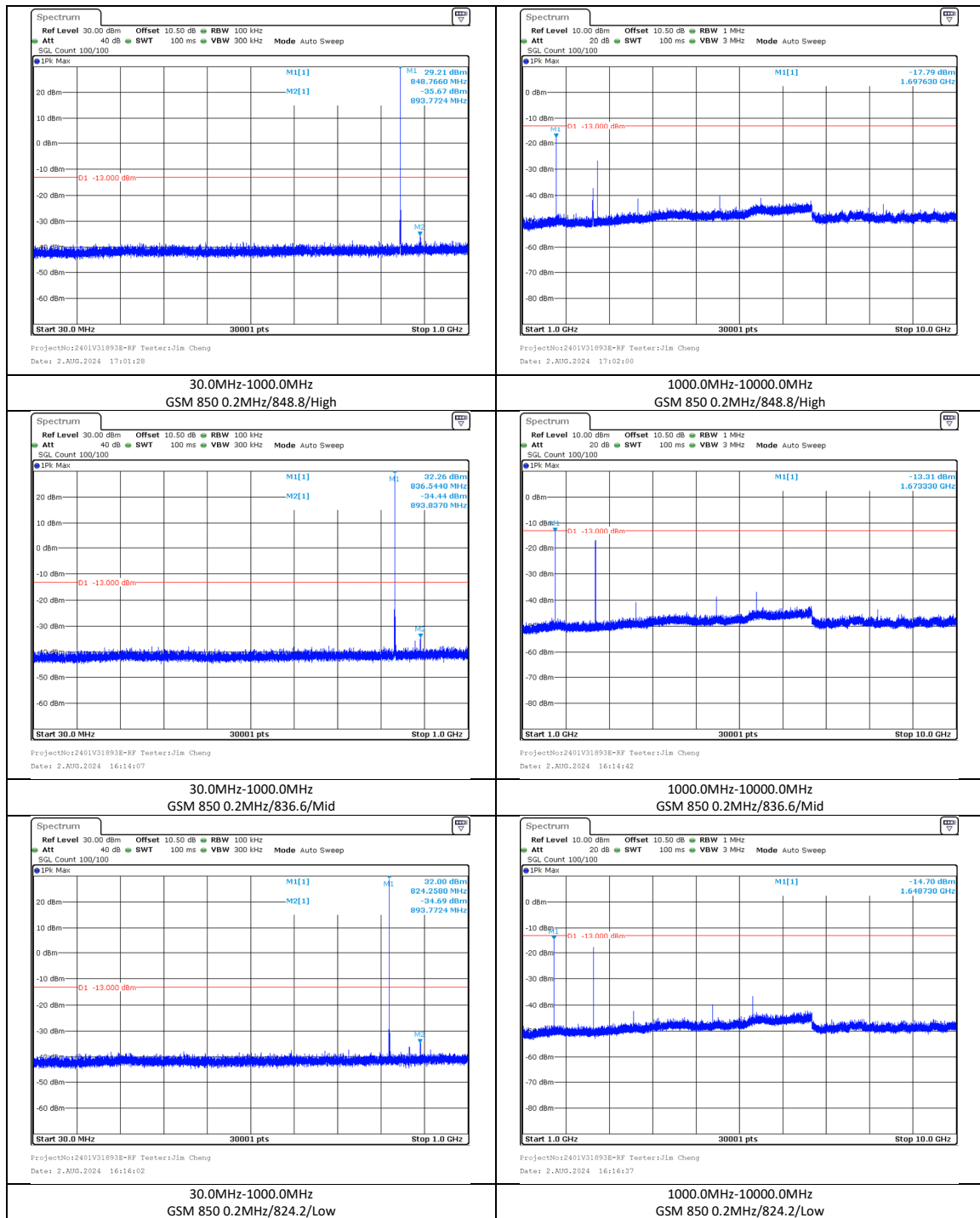


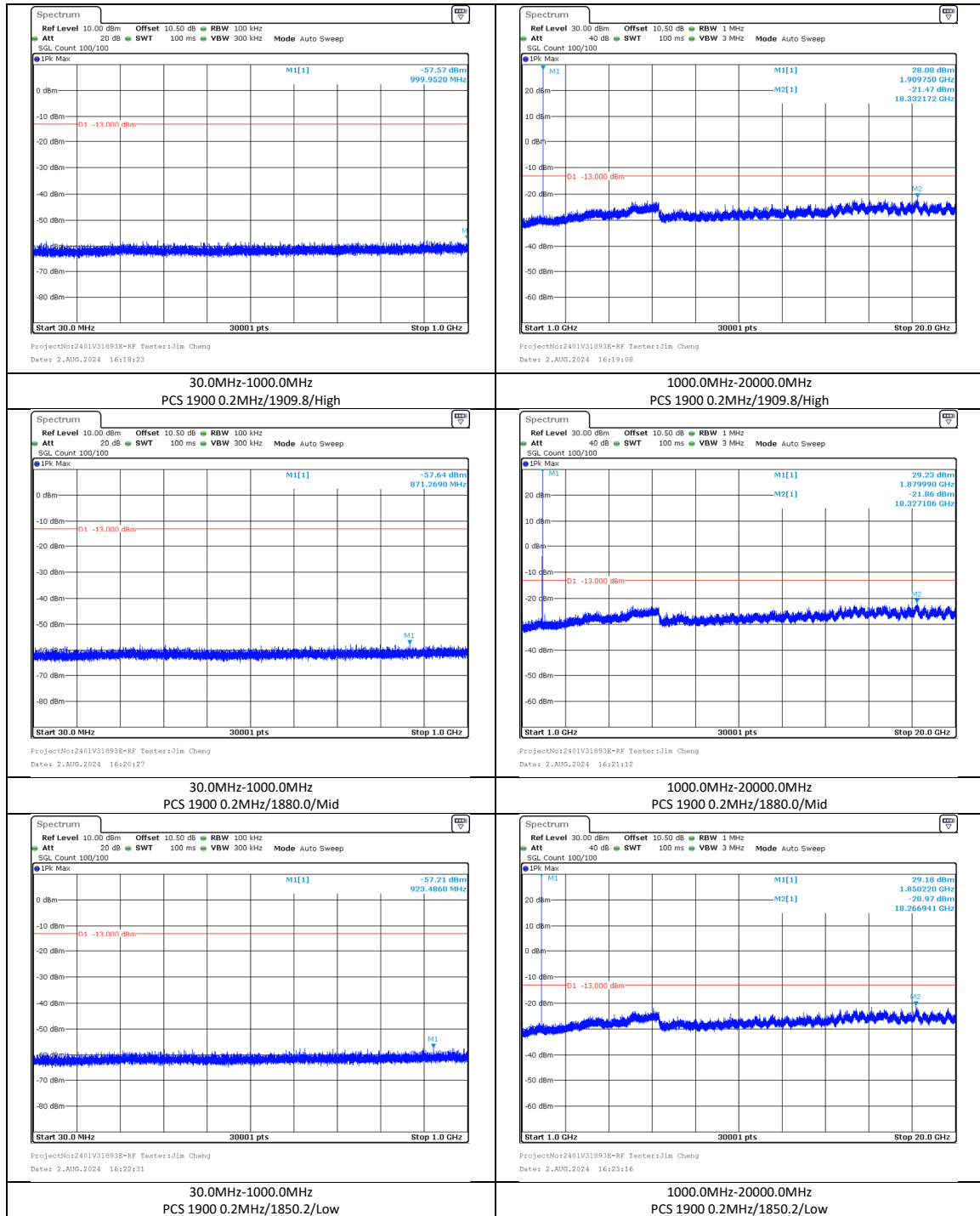
Conducted Spurious Emissions

Test result

Band	Channel	Freq (MHz)	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM 850	251	848.8	30.0	1000.0	-35.67	-13	PASS
GSM 850	251	848.8	1000.0	10000.0	-17.79	-13	PASS
GSM 850	190	836.6	30.0	1000.0	-34.44	-13	PASS
GSM 850	190	836.6	1000.0	10000.0	-13.31	-13	PASS
GSM 850	128	824.2	30.0	1000.0	-34.69	-13	PASS
GSM 850	128	824.2	1000.0	10000.0	-14.7	-13	PASS
PCS 1900	810	1909.8	30.0	1000.0	-57.57	-13	PASS
PCS 1900	810	1909.8	1000.0	20000.0	-21.47	-13	PASS
PCS 1900	661	1880.0	30.0	1000.0	-57.64	-13	PASS
PCS 1900	661	1880.0	1000.0	20000.0	-21.86	-13	PASS
PCS 1900	512	1850.2	30.0	1000.0	-57.21	-13	PASS
PCS 1900	512	1850.2	1000.0	20000.0	-20.97	-13	PASS

Test graph



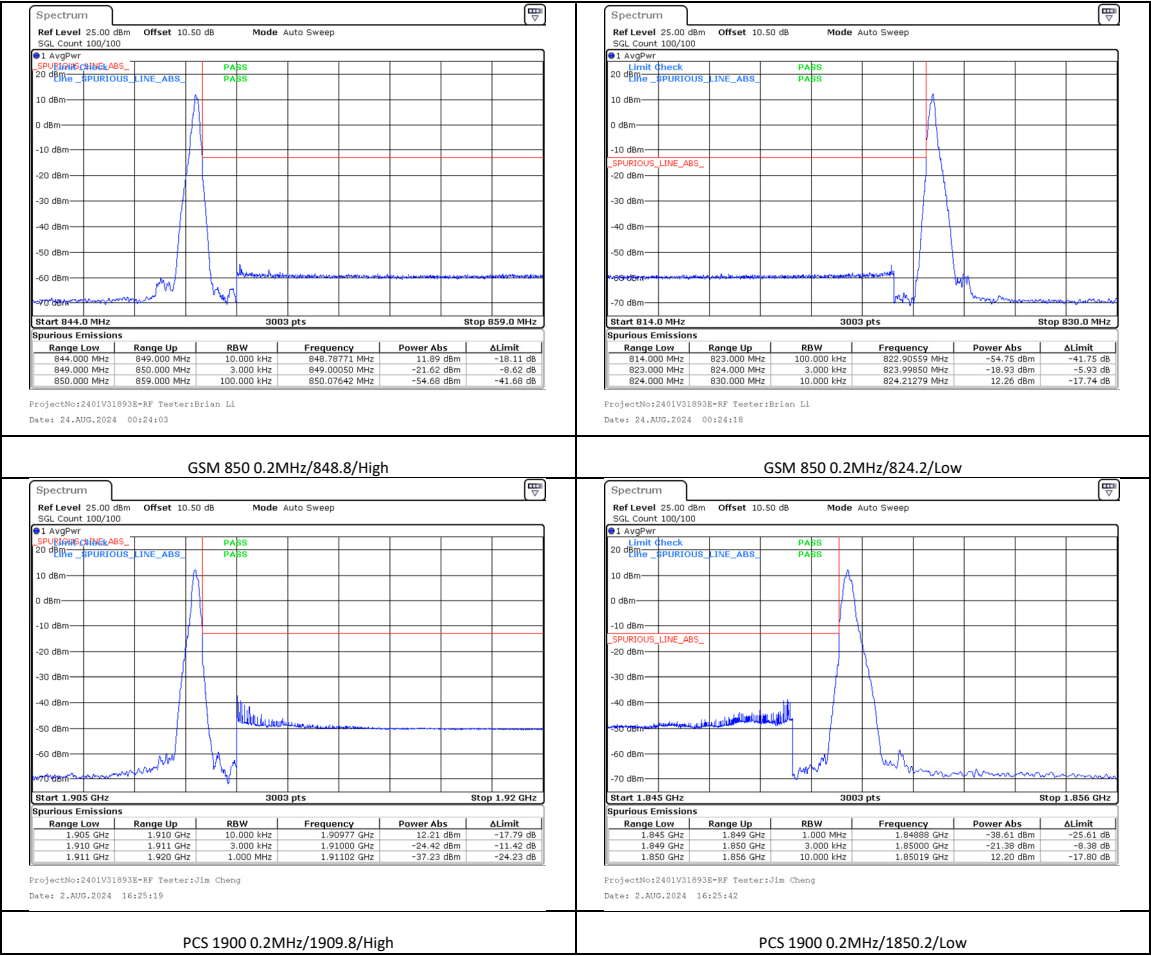


Conducted Band Edge

Test result

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

Test graph



Frequency Stability Error

Test result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
GSM 850	251	848.8	-6.84	-0.00806	±2.5	PASS	20°C/4.45V
GSM 850	251	848.8	-7.26	-0.00856	±2.5	PASS	20°C/3.42V
GSM 850	251	848.8	-5.13	-0.00605	±2.5	PASS	50°C/3.87V
GSM 850	251	848.8	-8.2	-0.00966	±2.5	PASS	40°C/3.87V
GSM 850	251	848.8	-6.94	-0.00818	±2.5	PASS	30°C/3.87V
GSM 850	251	848.8	-6.91	-0.00814	±2.5	PASS	20°C/3.87V
GSM 850	251	848.8	-6.13	-0.00723	±2.5	PASS	10°C/3.87V
GSM 850	251	848.8	-5.62	-0.00662	±2.5	PASS	0°C/3.87V
GSM 850	251	848.8	-5.52	-0.0065	±2.5	PASS	-10°C/3.87V
GSM 850	251	848.8	-5.1	-0.00601	±2.5	PASS	-20°C/3.87V
GSM 850	251	848.8	-7.01	-0.00825	±2.5	PASS	-30°C/3.87V
GSM 850	190	836.6	-5.88	-0.00702	±2.5	PASS	20°C/4.45V
GSM 850	190	836.6	-6.49	-0.00776	±2.5	PASS	20°C/3.42V
GSM 850	190	836.6	-6.62	-0.00791	±2.5	PASS	50°C/3.87V
GSM 850	190	836.6	-7.94	-0.00949	±2.5	PASS	40°C/3.87V
GSM 850	190	836.6	-4.26	-0.00509	±2.5	PASS	30°C/3.87V
GSM 850	190	836.6	-6.07	-0.00726	±2.5	PASS	20°C/3.87V
GSM 850	190	836.6	-6.81	-0.00814	±2.5	PASS	10°C/3.87V
GSM 850	190	836.6	-4.26	-0.00509	±2.5	PASS	0°C/3.87V
GSM 850	190	836.6	-6.75	-0.00807	±2.5	PASS	-10°C/3.87V
GSM 850	190	836.6	-6.49	-0.00776	±2.5	PASS	-20°C/3.87V
GSM 850	190	836.6	-5.04	-0.00602	±2.5	PASS	-30°C/3.87V
GSM 850	128	824.2	-6.59	-0.00799	±2.5	PASS	20°C/4.45V
GSM 850	128	824.2	-5.42	-0.00658	±2.5	PASS	20°C/3.42V
GSM 850	128	824.2	-6.33	-0.00768	±2.5	PASS	50°C/3.87V
GSM 850	128	824.2	-5.59	-0.00678	±2.5	PASS	40°C/3.87V
GSM 850	128	824.2	-8.07	-0.00979	±2.5	PASS	30°C/3.87V
GSM 850	128	824.2	-6.36	-0.00772	±2.5	PASS	20°C/3.87V
GSM 850	128	824.2	-7.07	-0.00858	±2.5	PASS	10°C/3.87V
GSM 850	128	824.2	-6.84	-0.0083	±2.5	PASS	0°C/3.87V
GSM 850	128	824.2	-6.13	-0.00744	±2.5	PASS	-10°C/3.87V
GSM 850	128	824.2	-6.97	-0.00846	±2.5	PASS	-20°C/3.87V
GSM 850	128	824.2	-3.68	-0.00447	±2.5	PASS	-30°C/3.87V

Frequency Stability Range

Test result

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	1850.180	1850.000	1909.933	1910.000	20°C/4.45V
PCS 1900	512/810	1850.2/1909.8	1850.107	1850.000	1909.978	1910.000	20°C/3.42V
PCS 1900	512/810	1850.2/1909.8	1850.017	1850.000	1909.892	1910.000	50°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.083	1850.000	1909.953	1910.000	40°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.054	1850.000	1909.820	1910.000	30°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.194	1850.000	1909.881	1910.000	20°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.170	1850.000	1909.856	1910.000	10°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.024	1850.000	1909.861	1910.000	0°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.186	1850.000	1909.832	1910.000	-10°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.018	1850.000	1909.865	1910.000	-20°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.003	1850.000	1909.993	1910.000	-30°C/3.87V

Transmitter Conducted Output Power GPRS

Test result

Band	Channel	Gamma	Freq (MHz)	Modulation	Slots	Conducted Power(dBm)	ERP/EIRP (dBm)	limit (dBm)	Verdict
GSM 850	251	3	848.8	GMSK	1 Tx	32.37	24.79	38.45	PASS
GSM 850	190	3	836.6	GMSK	1 Tx	32.43	24.85	38.45	PASS
GSM 850	128	3	824.2	GMSK	1 Tx	32.43	24.85	38.45	PASS
GSM 850	251	3	848.8	GMSK	2 Tx	31.53	23.95	38.45	PASS
GSM 850	190	3	836.6	GMSK	2 Tx	31.55	23.97	38.45	PASS
GSM 850	128	3	824.2	GMSK	2 Tx	31.55	23.97	38.45	PASS
GSM 850	251	3	848.8	GMSK	3 Tx	29.63	22.05	38.45	PASS
GSM 850	190	3	836.6	GMSK	3 Tx	29.62	22.04	38.45	PASS
GSM 850	128	3	824.2	GMSK	3 Tx	29.61	22.03	38.45	PASS
GSM 850	251	3	848.8	GMSK	4 Tx	28.49	20.91	38.45	PASS
GSM 850	190	3	836.6	GMSK	4 Tx	28.48	20.90	38.45	PASS
GSM 850	128	3	824.2	GMSK	4 Tx	28.47	20.89	38.45	PASS
PCS 1900	810	3	1909.8	GMSK	1 Tx	28.93	27.77	33	PASS
PCS 1900	661	3	1880.0	GMSK	1 Tx	28.98	27.82	33	PASS
PCS 1900	512	3	1850.2	GMSK	1 Tx	28.66	27.50	33	PASS
PCS 1900	810	3	1909.8	GMSK	2 Tx	28.18	27.02	33	PASS
PCS 1900	661	3	1880.0	GMSK	2 Tx	28.15	26.99	33	PASS
PCS 1900	512	3	1850.2	GMSK	2 Tx	27.80	26.64	33	PASS
PCS 1900	810	3	1909.8	GMSK	3 Tx	26.37	25.21	33	PASS
PCS 1900	661	3	1880.0	GMSK	3 Tx	26.24	25.08	33	PASS
PCS 1900	512	3	1850.2	GMSK	3 Tx	25.81	24.65	33	PASS
PCS 1900	810	3	1909.8	GMSK	4 Tx	25.25	24.09	33	PASS
PCS 1900	661	3	1880.0	GMSK	4 Tx	25.18	24.02	33	PASS
PCS 1900	512	3	1850.2	GMSK	4 Tx	24.66	23.50	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 EGPRS

Test result

Band	Channel	Gamma	Freq (MHz)	Modulation	Slots	Conducted Power(dBm)	ERP/EIRP (dBm)	limit (dBm)	Verdict
GSM 850	251	6	848.8	8PSK	1 Tx	27.18	19.60	38.45	PASS
GSM 850	190	6	836.6	8PSK	1 Tx	27.08	19.50	38.45	PASS
GSM 850	128	6	824.2	8PSK	1 Tx	27.09	19.51	38.45	PASS
GSM 850	251	6	848.8	8PSK	2 Tx	25.98	18.40	38.45	PASS
GSM 850	190	6	836.6	8PSK	2 Tx	25.52	17.94	38.45	PASS
GSM 850	128	6	824.2	8PSK	2 Tx	25.75	18.17	38.45	PASS
GSM 850	251	6	848.8	8PSK	3 Tx	23.52	15.94	38.45	PASS
GSM 850	190	6	836.6	8PSK	3 Tx	23.98	16.40	38.45	PASS
GSM 850	128	6	824.2	8PSK	3 Tx	23.62	16.04	38.45	PASS
GSM 850	251	6	848.8	8PSK	4 Tx	22.59	15.01	38.45	PASS
GSM 850	190	6	836.6	8PSK	4 Tx	22.34	14.76	38.45	PASS
GSM 850	128	6	824.2	8PSK	4 Tx	22.18	14.60	38.45	PASS
PCS 1900	810	5	1909.8	8PSK	1 Tx	25.28	24.12	33	PASS
PCS 1900	661	5	1880.0	8PSK	1 Tx	25.59	24.43	33	PASS
PCS 1900	512	5	1850.2	8PSK	1 Tx	25.25	24.09	33	PASS
PCS 1900	810	5	1909.8	8PSK	2 Tx	24.35	23.19	33	PASS
PCS 1900	661	5	1880.0	8PSK	2 Tx	24.35	23.19	33	PASS
PCS 1900	512	5	1850.2	8PSK	2 Tx	24.15	22.99	33	PASS
PCS 1900	810	5	1909.8	8PSK	3 Tx	21.70	20.54	33	PASS
PCS 1900	661	5	1880.0	8PSK	3 Tx	22.37	21.21	33	PASS
PCS 1900	512	5	1850.2	8PSK	3 Tx	22.33	21.17	33	PASS
PCS 1900	810	5	1909.8	8PSK	4 Tx	20.87	19.71	33	PASS
PCS 1900	661	5	1880.0	8PSK	4 Tx	20.88	19.72	33	PASS
PCS 1900	512	5	1850.2	8PSK	4 Tx	21.05	19.89	33	PASS

Note:

The ERP is for below 1GHz, EIRP is for above 1GHz

$EIRP = \text{Conducted Power(dBm)} - L_c(\text{dB}) + G_T(\text{dBi})$

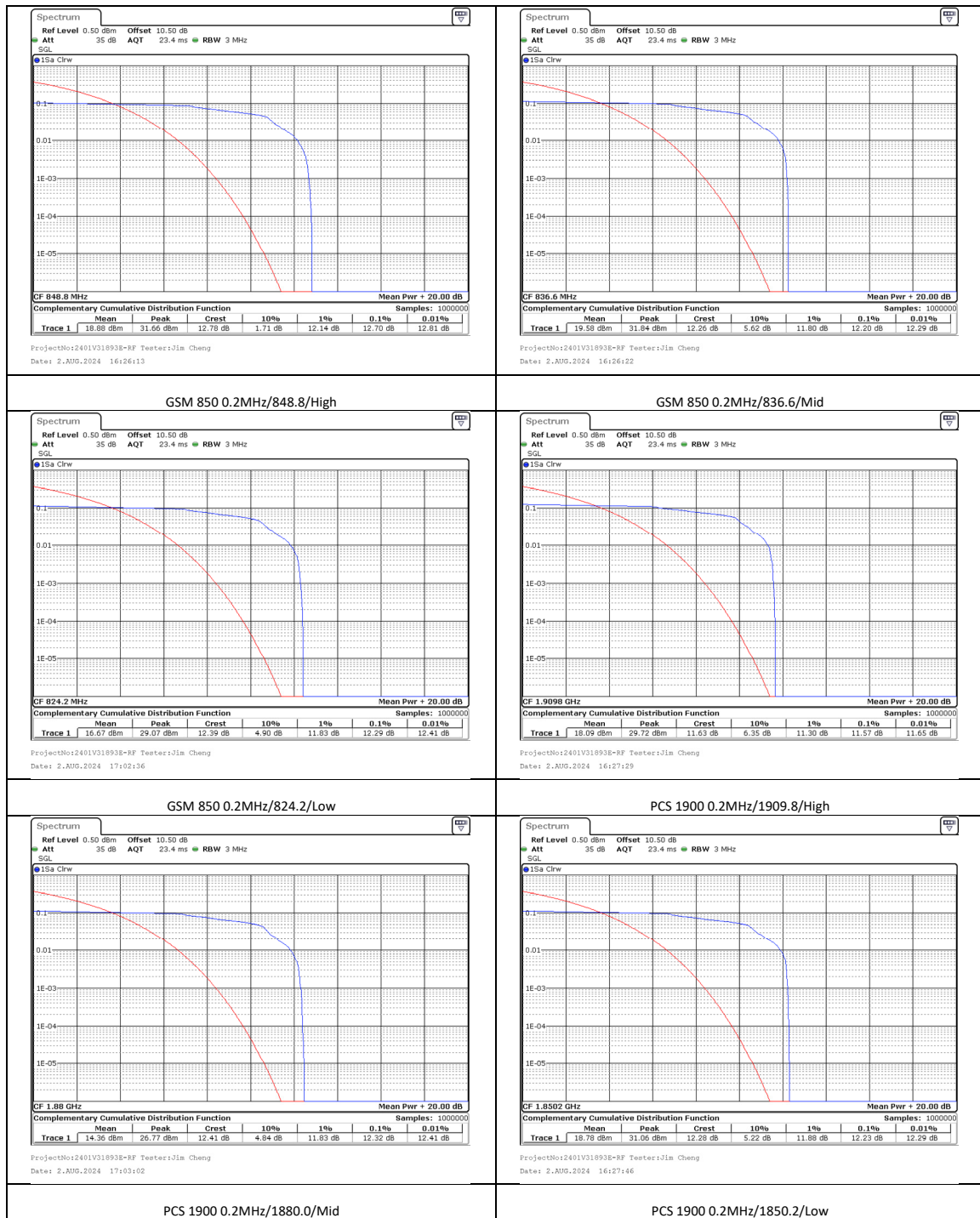
$ERP = \text{Conducted Power(dBm)} - L_c(\text{dB}) + G_T(\text{dBd})$

$G_T(\text{dBd}) = G_T(\text{dBi}) - 2.15$

Peak to Average Ratio EGPRS*Test result*

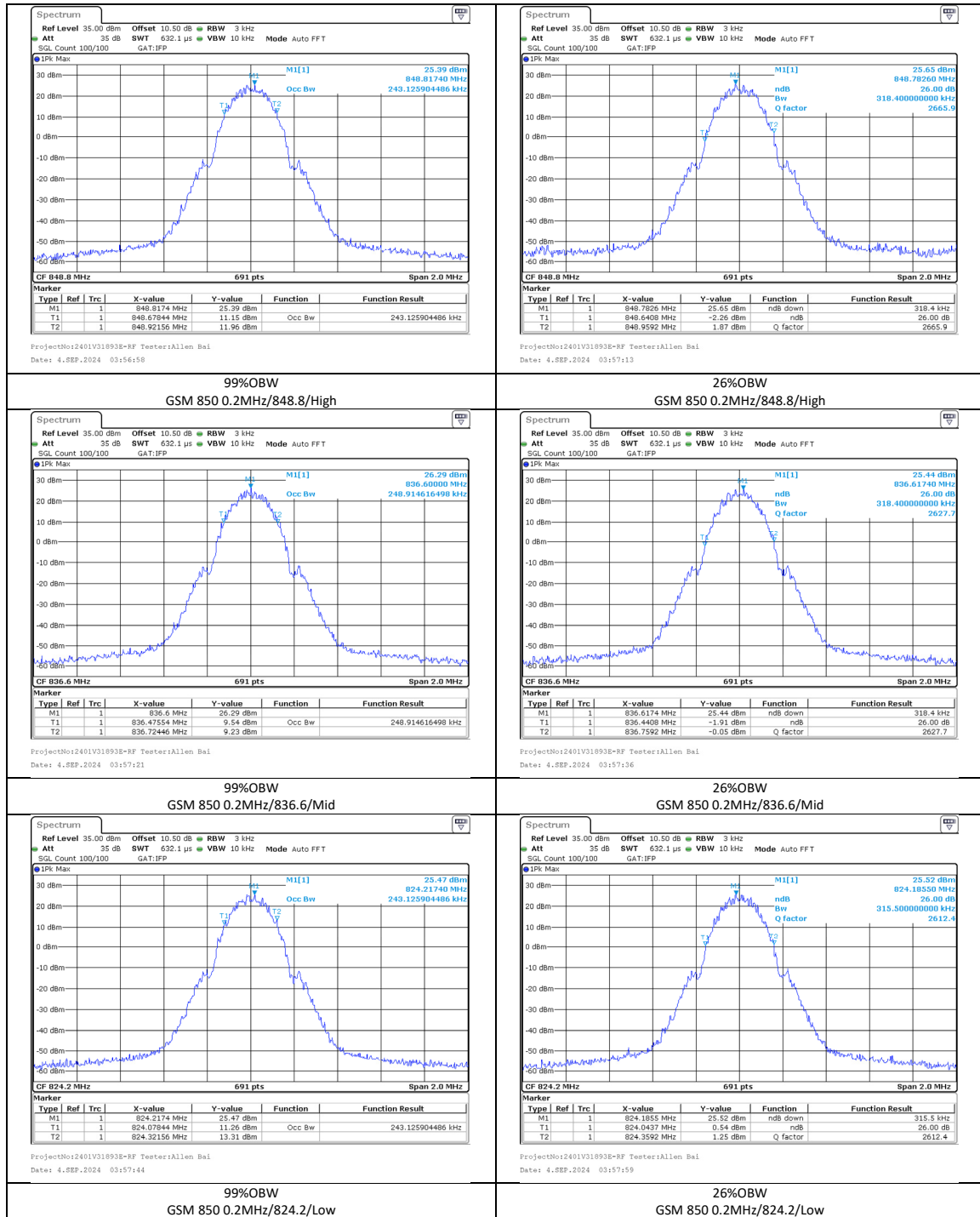
Band	Channel	Freq (MHz)	Slots	Result (dB)	Limit (dB)	Verdict
GSM 850	251	848.8	1 Tx	12.70	13	PASS
GSM 850	190	836.6	1 Tx	12.20	13	PASS
GSM 850	128	824.2	1 Tx	12.29	13	PASS
PCS 1900	810	1909.8	1 Tx	11.57	13	PASS
PCS 1900	661	1880.0	1 Tx	12.32	13	PASS
PCS 1900	512	1850.2	1 Tx	12.23	13	PASS

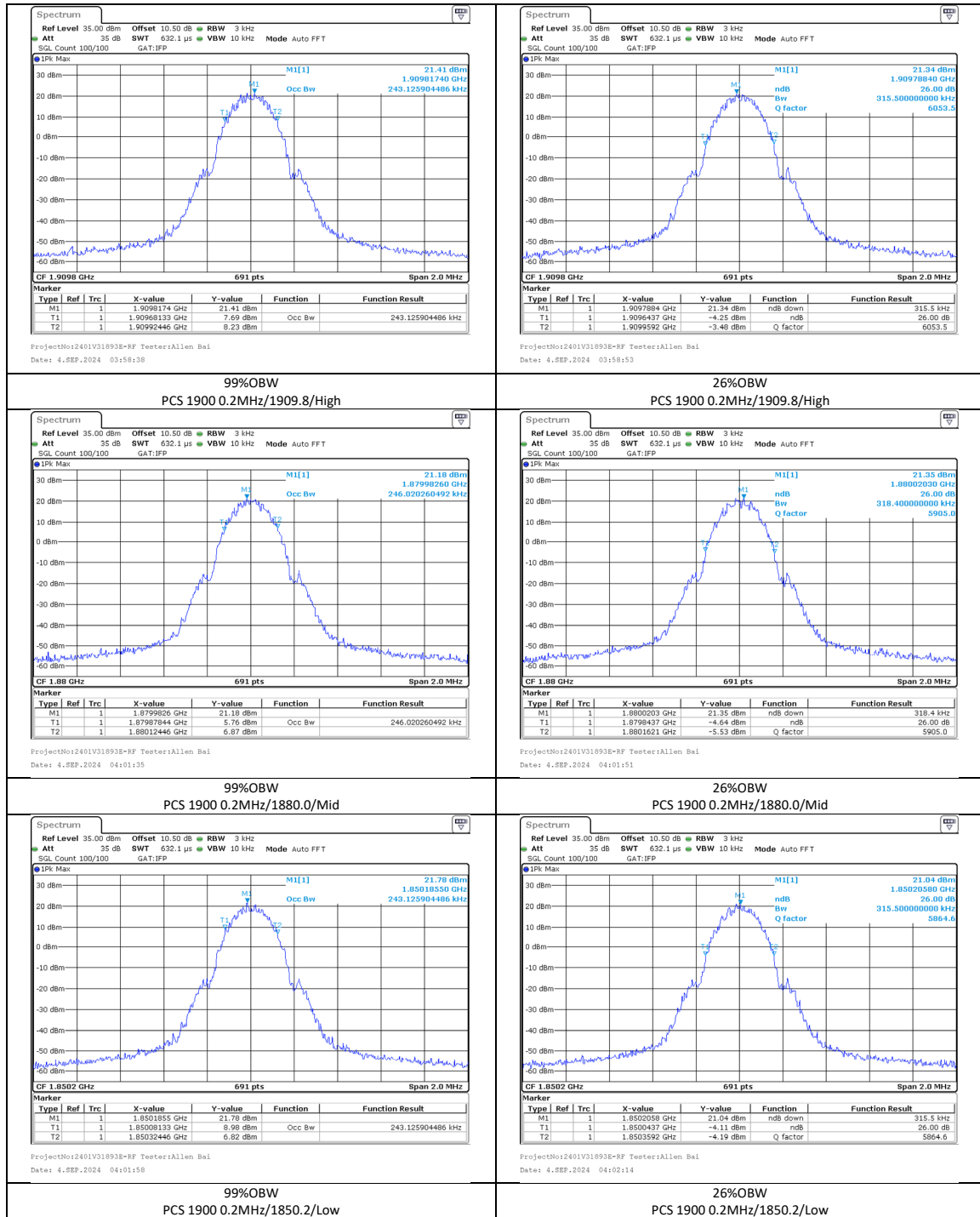
Test graph



Occupied Bandwidth EGPRS

Band	Channel	Freq (MHz)	OBW (MHz)	26dB BW (MHz)	Verdict
GSM 850	251	848.8	0.24313	0.3184	PASS
GSM 850	190	836.6	0.24891	0.3184	PASS
GSM 850	128	824.2	0.24313	0.3155	PASS
PCS 1900	810	1909.8	0.24313	0.3155	PASS
PCS 1900	661	1880.0	0.24602	0.3184	PASS
PCS 1900	512	1850.2	0.24313	0.3155	PASS



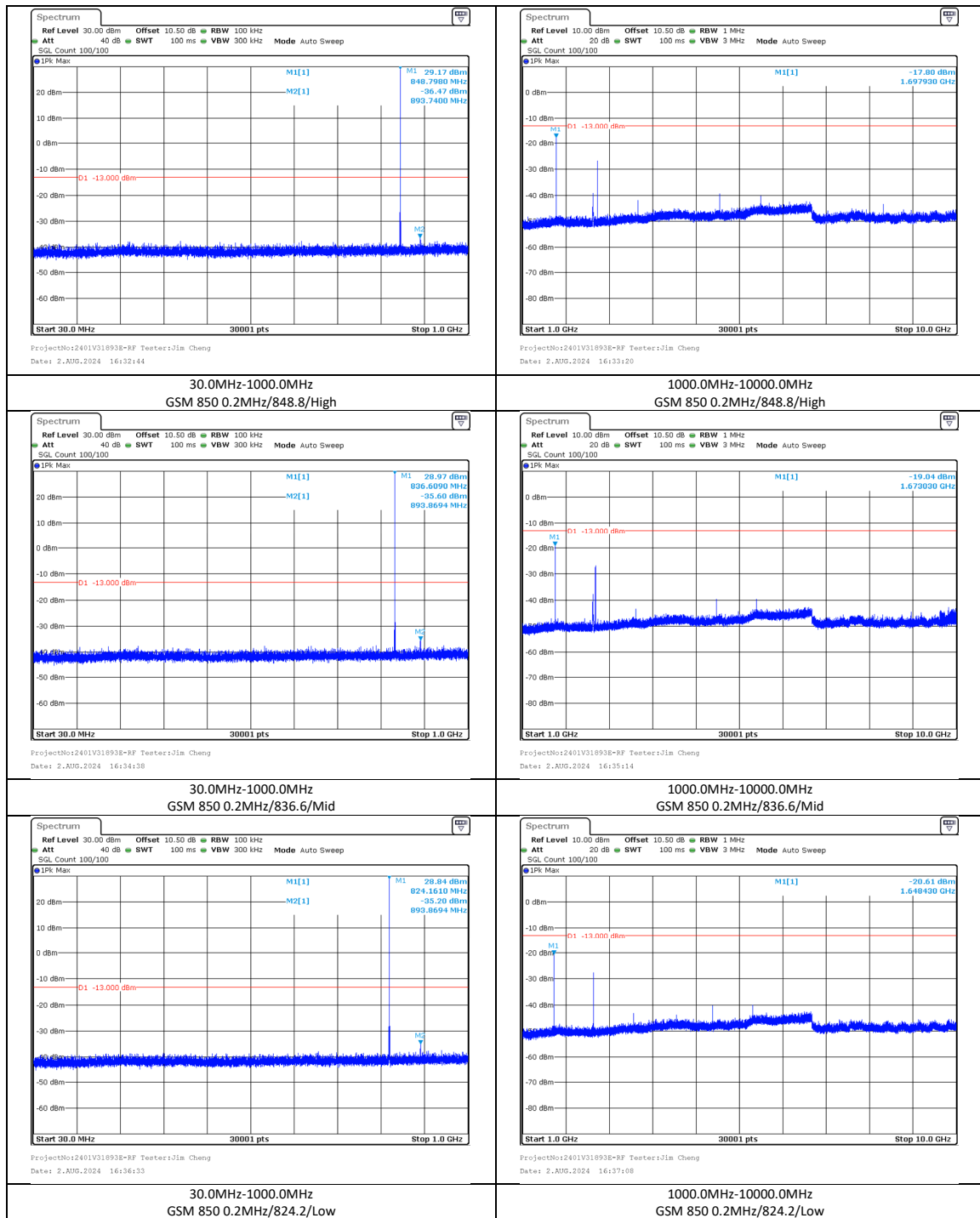


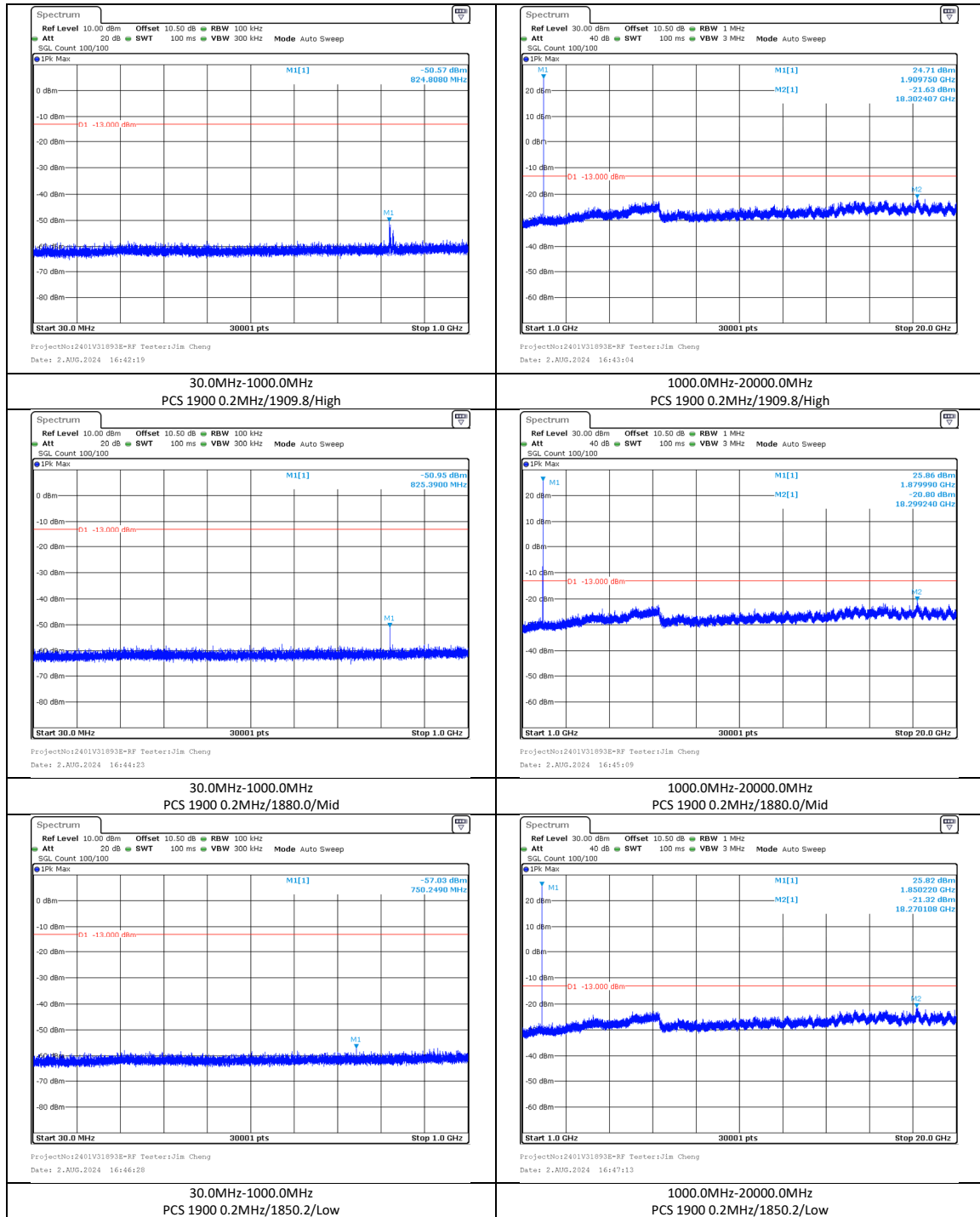
Conducted Spurious Emissions EGPRS

Test result

Band	Channel	Freq (MHz)	StartFreq (MHz)	StopFreq (MHz)	Slots	Result (dBm)	Limit (dBm)	Verdict
GSM 850	251	848.8	30.0	1000.0	1 Tx	-36.47	-13	PASS
GSM 850	251	848.8	1000.0	10000.0	1 Tx	-17.8	-13	PASS
GSM 850	190	836.6	30.0	1000.0	1 Tx	-35.6	-13	PASS
GSM 850	190	836.6	1000.0	10000.0	1 Tx	-19.04	-13	PASS
GSM 850	128	824.2	30.0	1000.0	1 Tx	-35.2	-13	PASS
GSM 850	128	824.2	1000.0	10000.0	1 Tx	-20.61	-13	PASS
PCS 1900	810	1909.8	30.0	1000.0	1 Tx	-50.57	-13	PASS
PCS 1900	810	1909.8	1000.0	20000.0	1 Tx	-21.63	-13	PASS
PCS 1900	661	1880.0	30.0	1000.0	1 Tx	-50.95	-13	PASS
PCS 1900	661	1880.0	1000.0	20000.0	1 Tx	-20.8	-13	PASS
PCS 1900	512	1850.2	30.0	1000.0	1 Tx	-57.03	-13	PASS
PCS 1900	512	1850.2	1000.0	20000.0	1 Tx	-21.32	-13	PASS

Test graph



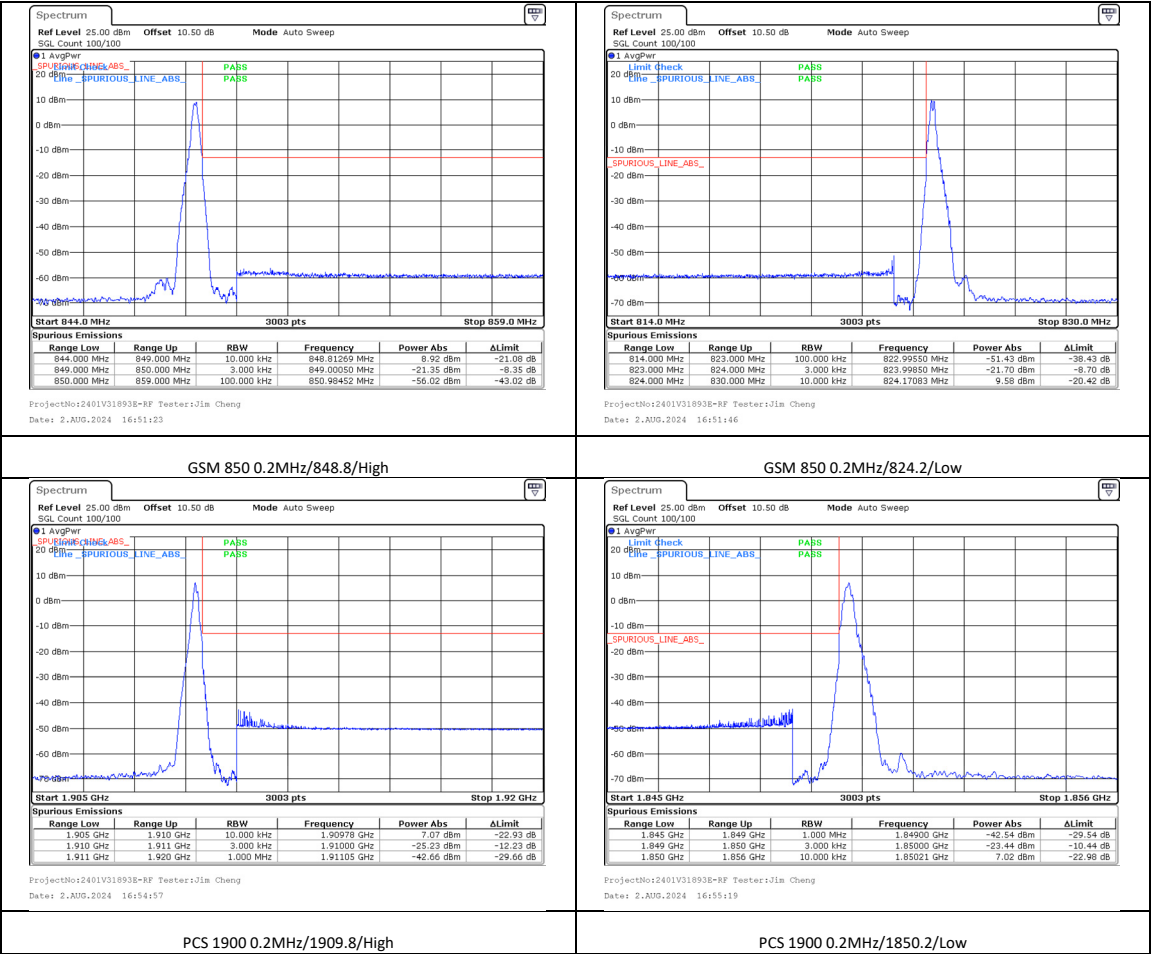


Conducted Band Edge EGPRS

Test result

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

Test graph



Frequency Stability Error_EGPRS

Test result

Band	Channel	Freq (MHz)	Slots	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
GSM 850	251	848.8	1 Tx	-0.17	-0.00020	±2.5	PASS	20°C/4.45V
GSM 850	251	848.8	1 Tx	-6.75	-0.00795	±2.5	PASS	20°C/3.42V
GSM 850	251	848.8	1 Tx	-6.09	-0.00718	±2.5	PASS	50°C/3.87V
GSM 850	251	848.8	1 Tx	-3.98	-0.00469	±2.5	PASS	40°C/3.87V
GSM 850	251	848.8	1 Tx	-9.29	-0.01094	±2.5	PASS	30°C/3.87V
GSM 850	251	848.8	1 Tx	-5.98	-0.00705	±2.5	PASS	20°C/3.87V
GSM 850	251	848.8	1 Tx	-7.56	-0.00891	±2.5	PASS	10°C/3.87V
GSM 850	251	848.8	1 Tx	-6.84	-0.00805	±2.5	PASS	0°C/3.87V
GSM 850	251	848.8	1 Tx	-6.60	-0.00778	±2.5	PASS	-10°C/3.87V
GSM 850	251	848.8	1 Tx	-2.17	-0.00255	±2.5	PASS	-20°C/3.87V
GSM 850	251	848.8	1 Tx	-1.22	-0.00144	±2.5	PASS	-30°C/3.87V
GSM 850	190	836.6	1 Tx	-9.56	-0.01143	±2.5	PASS	20°C/4.45V
GSM 850	190	836.6	1 Tx	-5.89	-0.00704	±2.5	PASS	20°C/3.42V
GSM 850	190	836.6	1 Tx	-8.08	-0.00965	±2.5	PASS	50°C/3.87V
GSM 850	190	836.6	1 Tx	-9.71	-0.01161	±2.5	PASS	40°C/3.87V
GSM 850	190	836.6	1 Tx	-2.14	-0.00256	±2.5	PASS	30°C/3.87V
GSM 850	190	836.6	1 Tx	-7.66	-0.00916	±2.5	PASS	20°C/3.87V
GSM 850	190	836.6	1 Tx	-6.84	-0.00818	±2.5	PASS	10°C/3.87V
GSM 850	190	836.6	1 Tx	-1.34	-0.00160	±2.5	PASS	0°C/3.87V
GSM 850	190	836.6	1 Tx	-7.85	-0.00938	±2.5	PASS	-10°C/3.87V
GSM 850	190	836.6	1 Tx	-2.40	-0.00287	±2.5	PASS	-20°C/3.87V
GSM 850	190	836.6	1 Tx	-7.11	-0.00850	±2.5	PASS	-30°C/3.87V
GSM 850	128	824.2	1 Tx	-7.29	-0.00884	±2.5	PASS	20°C/4.45V
GSM 850	128	824.2	1 Tx	-1.28	-0.00156	±2.5	PASS	20°C/3.42V
GSM 850	128	824.2	1 Tx	-4.38	-0.00532	±2.5	PASS	50°C/3.87V
GSM 850	128	824.2	1 Tx	-8.75	-0.01061	±2.5	PASS	40°C/3.87V
GSM 850	128	824.2	1 Tx	-6.71	-0.00814	±2.5	PASS	30°C/3.87V
GSM 850	128	824.2	1 Tx	-9.09	-0.01103	±2.5	PASS	20°C/3.87V
GSM 850	128	824.2	1 Tx	-6.41	-0.00777	±2.5	PASS	10°C/3.87V
GSM 850	128	824.2	1 Tx	-4.76	-0.00577	±2.5	PASS	0°C/3.87V
GSM 850	128	824.2	1 Tx	-0.02	-0.00003	±2.5	PASS	-10°C/3.87V
GSM 850	128	824.2	1 Tx	-6.67	-0.00810	±2.5	PASS	-20°C/3.87V
GSM 850	128	824.2	1 Tx	-6.91	-0.00838	±2.5	PASS	-30°C/3.87V

Frequency Stability Range_EGPRS

Test result

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	1850.004	1850.000	1909.838	1910.000	20°C/4.45V
PCS 1900	512/810	1850.2/1909.8	1850.149	1850.000	1909.883	1910.000	20°C/3.42V
PCS 1900	512/810	1850.2/1909.8	1850.188	1850.000	1909.897	1910.000	50°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.063	1850.000	1909.922	1910.000	40°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.042	1850.000	1909.981	1910.000	30°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.102	1850.000	1909.998	1910.000	20°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.147	1850.000	1909.916	1910.000	10°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.122	1850.000	1909.853	1910.000	0°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.151	1850.000	1909.848	1910.000	-10°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.063	1850.000	1909.916	1910.000	-20°C/3.87V
PCS 1900	512/810	1850.2/1909.8	1850.018	1850.000	1909.962	1910.000	-30°C/3.87V