

Transmitter Conducted Output Power And ERP/EIRP

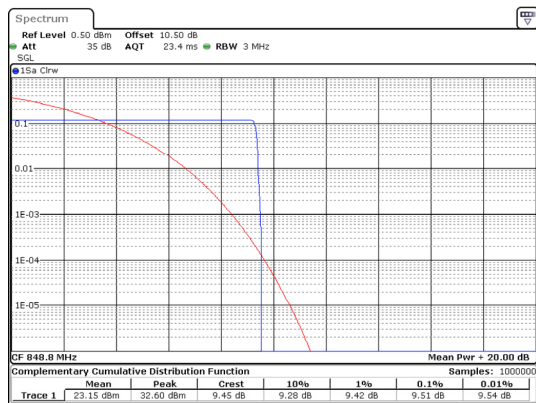
Band	Channel	PCL	Freq (MHz)	Conducted Power(dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)	ERP/EIRP(limit) (dBm)	Verdict
GSM 850	251	5	848.8	32.61	28.21	0.662	38.45	PASS
GSM 850	190	5	836.6	32.56	28.16	0.655	38.45	PASS
GSM 850	128	5	824.2	32.31	27.91	0.618	38.45	PASS
PCS 1900	810	0	1909.8	24.46	24.81	0.303	33	PASS
PCS 1900	661	0	1880.0	24.88	25.23	0.333	33	PASS
PCS 1900	512	0	1850.2	24.82	25.17	0.329	33	PASS

Transmitter Conducted Output Power And ERP/EIRP GPRS

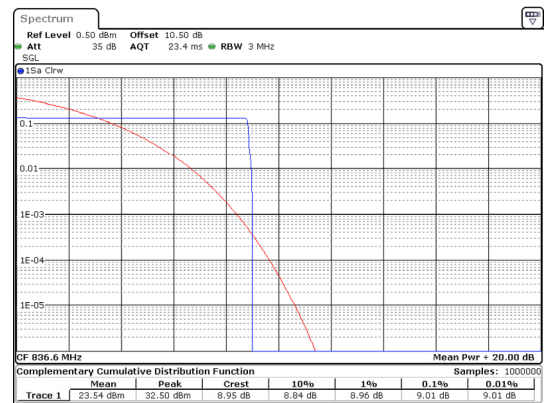
Band	Channel	Gamma	Freq (MHz)	Modulation	Slots	Conducted Power(dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)	ERP/EIRP(limit) (dBm)	Verdict
GSM 850	251	3	848.8	GMSK	1 Tx	32.36	27.96	0.625	38.45	PASS
GSM 850	190	3	836.6	GMSK	1 Tx	31.89	27.49	0.561	38.45	PASS
GSM 850	128	3	824.2	GMSK	1 Tx	31.21	26.81	0.480	38.45	PASS
GSM 850	251	3	848.8	GMSK	2 Tx	30.06	25.66	0.368	38.45	PASS
GSM 850	190	3	836.6	GMSK	2 Tx	29.6	25.20	0.331	38.45	PASS
GSM 850	128	3	824.2	GMSK	2 Tx	29.13	24.73	0.297	38.45	PASS
GSM 850	251	3	848.8	GMSK	3 Tx	28.19	23.79	0.239	38.45	PASS
GSM 850	190	3	836.6	GMSK	3 Tx	27.71	23.31	0.214	38.45	PASS
GSM 850	128	3	824.2	GMSK	3 Tx	27.19	22.79	0.190	38.45	PASS
GSM 850	251	3	848.8	GMSK	4 Tx	25.86	21.46	0.140	38.45	PASS
GSM 850	190	3	836.6	GMSK	4 Tx	25.36	20.96	0.125	38.45	PASS
GSM 850	128	3	824.2	GMSK	4 Tx	25.05	20.65	0.116	38.45	PASS
PCS 1900	810	3	1909.8	GMSK	1 Tx	24.52	24.87	0.307	33	PASS
PCS 1900	661	3	1880.0	GMSK	1 Tx	24.92	25.27	0.337	33	PASS
PCS 1900	512	3	1850.2	GMSK	1 Tx	24.92	25.27	0.337	33	PASS
PCS 1900	810	3	1909.8	GMSK	2 Tx	24.35	24.70	0.295	33	PASS
PCS 1900	661	3	1880.0	GMSK	2 Tx	24.72	25.07	0.321	33	PASS
PCS 1900	512	3	1850.2	GMSK	2 Tx	24.68	25.03	0.318	33	PASS
PCS 1900	810	3	1909.8	GMSK	3 Tx	24.08	24.43	0.277	33	PASS
PCS 1900	661	3	1880.0	GMSK	3 Tx	24.5	24.85	0.305	33	PASS
PCS 1900	512	3	1850.2	GMSK	3 Tx	24.45	24.80	0.302	33	PASS
PCS 1900	810	3	1909.8	GMSK	4 Tx	22.17	22.52	0.179	33	PASS
PCS 1900	661	3	1880.0	GMSK	4 Tx	22.36	22.71	0.187	33	PASS
PCS 1900	512	3	1850.2	GMSK	4 Tx	22.4	22.75	0.188	33	PASS

Peak to Average Ratio

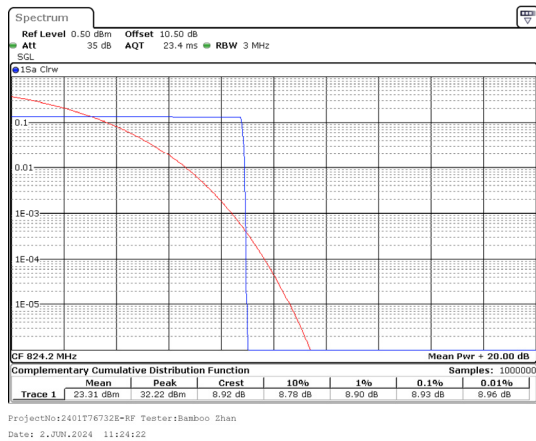
Band	Channel	Freq (MHz)	Result (dB)	Limit (dB)	Verdict
GSM 850	251	848.8	9.51	13	PASS
GSM 850	190	836.6	9.01	13	PASS
GSM 850	128	824.2	8.93	13	PASS
PCS 1900	810	1909.8	9.59	13	PASS
PCS 1900	661	1880.0	9.39	13	PASS
PCS 1900	512	1850.2	9.54	13	PASS



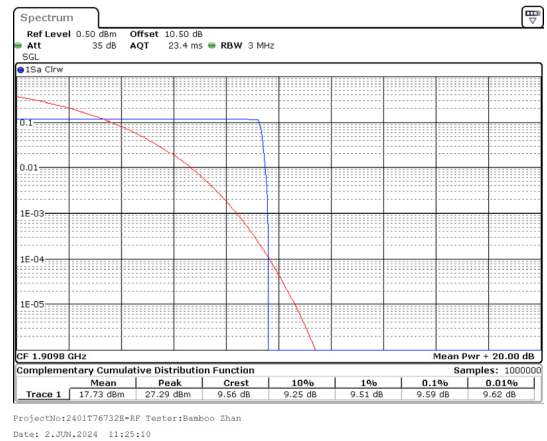
GSM 850 0.2MHz/848.8/High



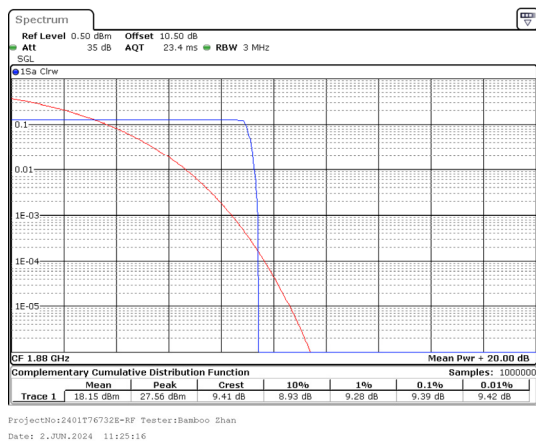
GSM 850 0.2MHz/836.6/Mid



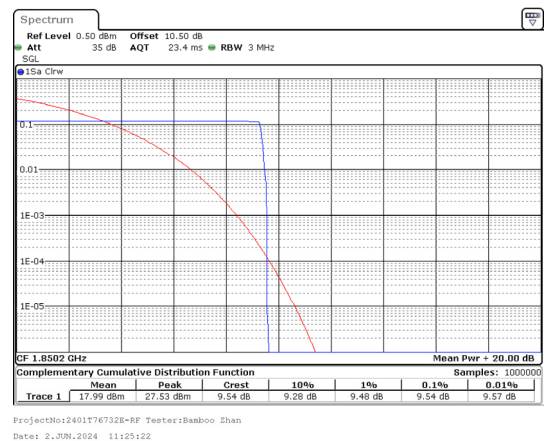
GSM 850 0.2MHz/824.2/Low



PCS 1900 0.2MHz/1909.8/High



PCS 1900 0.2MHz/1880.0/Mid



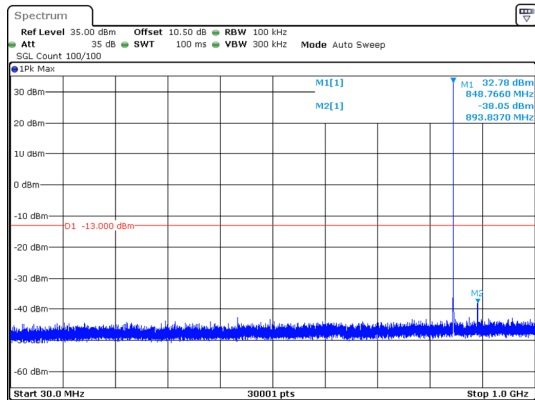
PCS 1900 0.2MHz/1850.2/Low

Band	Channel	Freq (MHz)	OBW (MHz)	26dB BW (MHz)	Verdict
GSM 850	190	836.6	0.24313	0.3155	PASS
PCS 1900	661	1880.0	0.24602	0.3155	PASS

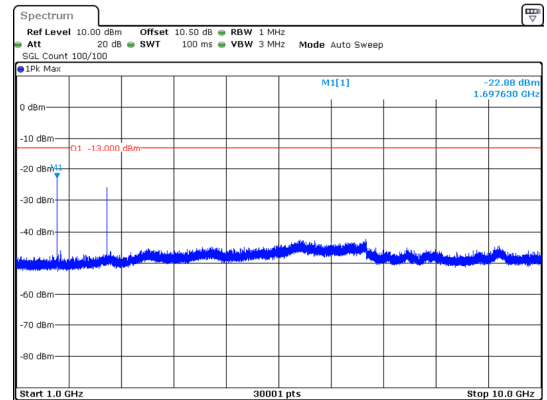


Conducted Spurious Emissions

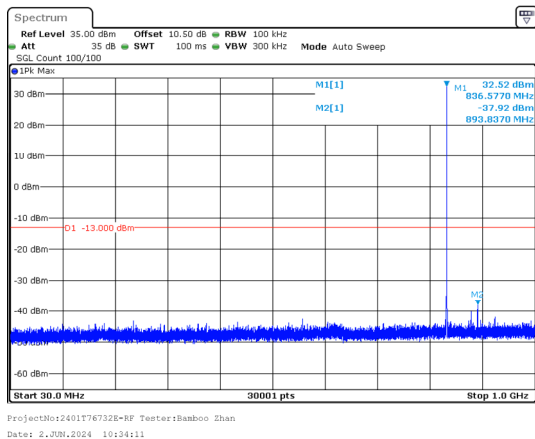
Band	Channel	Freq (MHz)	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM 850	251	848.8	30.0	1000.0	-38.05	-13	PASS
GSM 850	251	848.8	1000.0	10000.0	-22.88	-13	PASS
GSM 850	190	836.6	30.0	1000.0	-37.92	-13	PASS
GSM 850	190	836.6	1000.0	10000.0	-22.94	-13	PASS
GSM 850	128	824.2	30.0	1000.0	-37.2	-13	PASS
GSM 850	128	824.2	1000.0	10000.0	-23.08	-13	PASS
PCS 1900	810	1909.8	30.0	1000.0	-57.76	-13	PASS
PCS 1900	810	1909.8	1000.0	20000.0	-27.33	-13	PASS
PCS 1900	661	1880.0	30.0	1000.0	-57.85	-13	PASS
PCS 1900	661	1880.0	1000.0	20000.0	-27.28	-13	PASS
PCS 1900	512	1850.2	30.0	1000.0	-57.53	-13	PASS
PCS 1900	512	1850.2	1000.0	20000.0	-27.05	-13	PASS



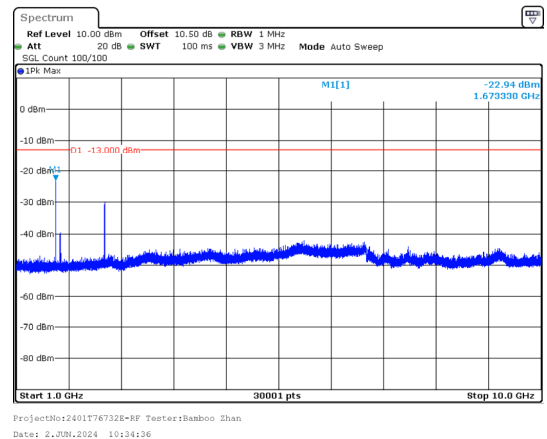
30.0MHz-1000.0MHz
GSM 850 0.2MHz/848.8/High



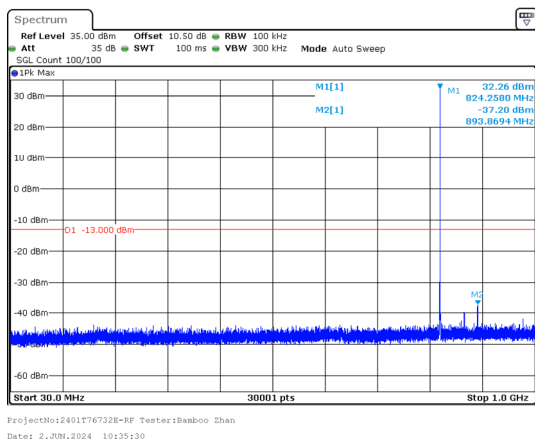
1000.0MHz-10000.0MHz
GSM 850 0.2MHz/848.8/High



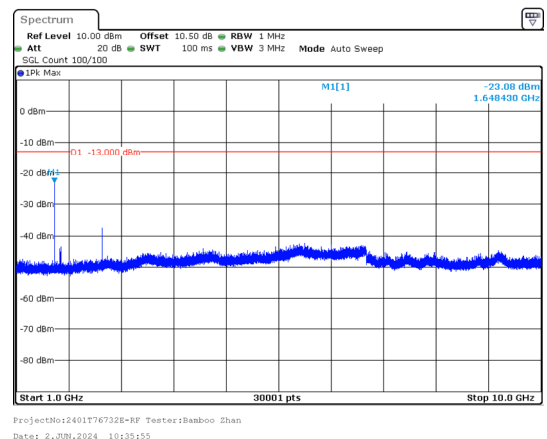
30.0MHz-1000.0MHz
GSM 850 0.2MHz/836.6/Mid



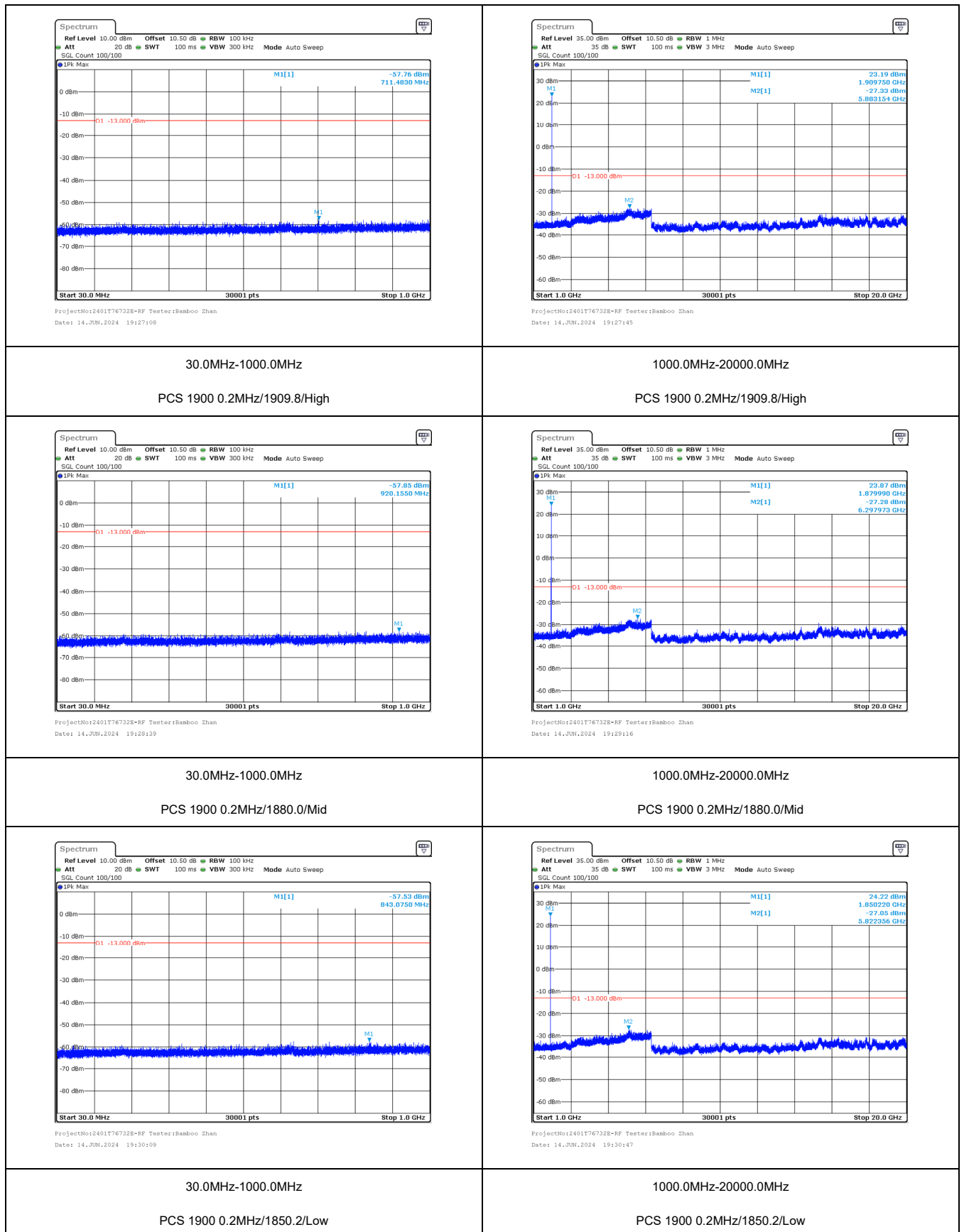
1000.0MHz-10000.0MHz
GSM 850 0.2MHz/836.6/Mid



30.0MHz-1000.0MHz
GSM 850 0.2MHz/824.2/Low

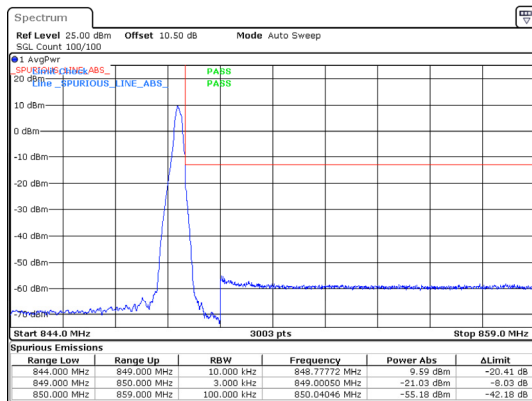


1000.0MHz-10000.0MHz
GSM 850 0.2MHz/824.2/Low

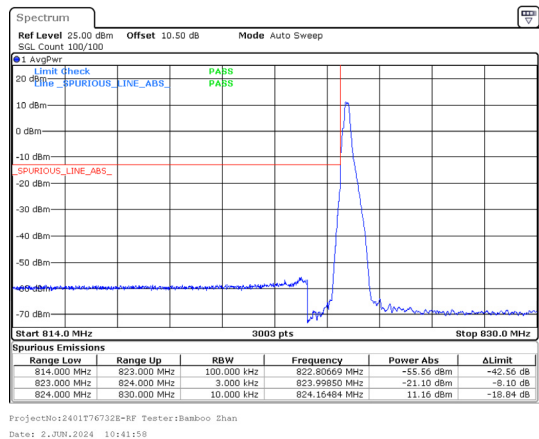


Conducted Band Edge

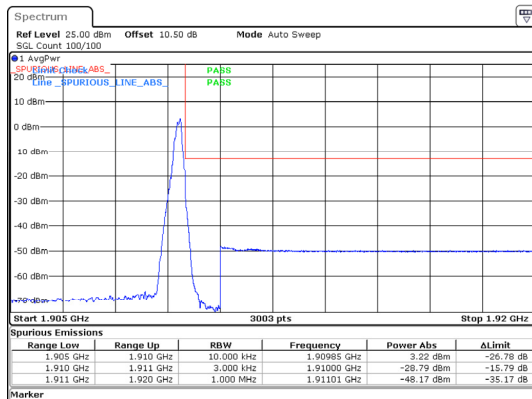
Band	Channel	Freq (MHz)	Result	Verdict
GSM 850	251	848.8	see graph	PASS
GSM 850	128	824.2	see graph	PASS
PCS 1900	810	1909.8	see graph	PASS
PCS 1900	512	1850.2	see graph	PASS



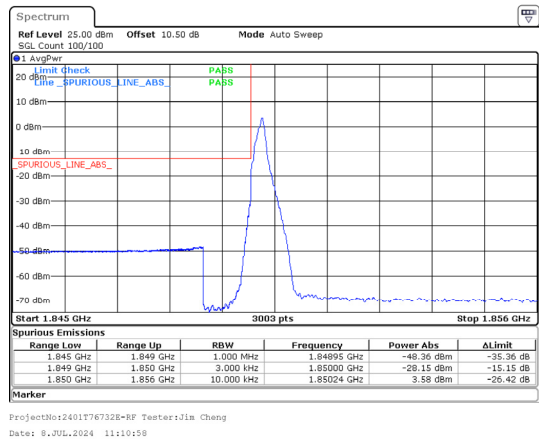
GSM 850 0.2MHz/848.8/High



GSM 850 0.2MHz/824.2/Low



PCS 1900 0.2MHz/1909.8/High



PCS 1900 0.2MHz/1850.2/Low

Frequency Stability

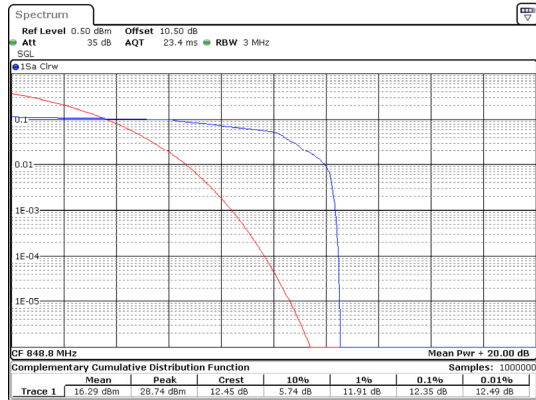
GSM 850							
Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment Temperature(°C)/ Voltage(V _{DC})
GSM 850	190	836.6	1.13	0.00135	±2.5	PASS	20°C/3.27V
GSM 850	190	836.6	10.94	0.01308	±2.5	PASS	20°C/4.4V
GSM 850	190	836.6	5.46	0.00653	±2.5	PASS	-30°C/3.85V
GSM 850	190	836.6	-2.74	-0.00328	±2.5	PASS	-20°C/3.85V
GSM 850	190	836.6	10.04	0.01200	±2.5	PASS	-10°C/3.85V
GSM 850	190	836.6	6.52	0.00779	±2.5	PASS	0°C/3.85V
GSM 850	190	836.6	12.14	0.01451	±2.5	PASS	10°C/3.85V
GSM 850	190	836.6	0.77	0.00092	±2.5	PASS	20°C/3.85V
GSM 850	190	836.6	1.45	0.00173	±2.5	PASS	30°C/3.85V
GSM 850	190	836.6	4.42	0.00528	±2.5	PASS	40°C/3.85V
GSM 850	190	836.6	12.59	0.01505	±2.5	PASS	50°C/3.85V
PCS 1900							
Band	Channel(L/H)	Freq (MHz)	Lower Edge (MHz) (Result)	Limit (1850MHz)	Upper Edge (MHz) (Result)	Limit (1910MHz)	Environment Temperature(°C)/ Voltage(V _{DC})
PCS 1900	512/810	1850.2/1909.8	1850.071	1850.000	1909.993	1910.000	20°C/3.27V
PCS 1900	512/810	1850.2/1909.8	1850.030	1850.000	1909.885	1910.000	20°C/4.4V
PCS 1900	512/810	1850.2/1909.8	1850.034	1850.000	1909.896	1910.000	-30°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.012	1850.000	1909.917	1910.000	-20°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.094	1850.000	1909.941	1910.000	-10°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.140	1850.000	1909.964	1910.000	0°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.100	1850.000	1909.927	1910.000	10°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.050	1850.000	1909.939	1910.000	20°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.052	1850.000	1909.892	1910.000	30°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.152	1850.000	1909.985	1910.000	40°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.144	1850.000	1909.878	1910.000	50°C/3.85V

Transmitter Conducted Output Power And ERP/EIRP EGPRS

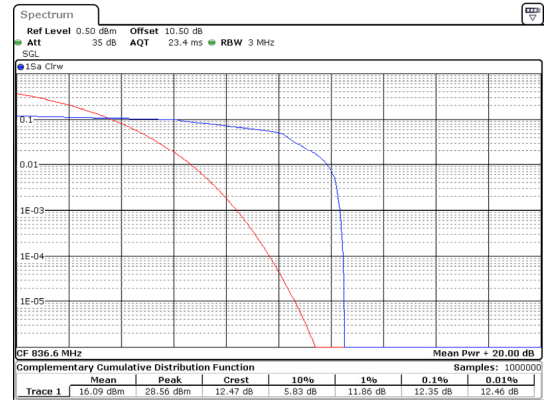
Band	Channel	Gamma	Freq (MHz)	Modulation	Slots	Conducted Power(dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)	ERP/EIRP(limit) (dBm)	Verdict
GSM 850	251	6	848.8	GMSK	1 Tx	25.27	20.87	0.122	38.45	PASS
GSM 850	190	6	836.6	GMSK	1 Tx	24.74	20.34	0.108	38.45	PASS
GSM 850	128	6	824.2	GMSK	1 Tx	25.6	21.20	0.132	38.45	PASS
GSM 850	251	6	848.8	GMSK	2 Tx	23.91	19.51	0.089	38.45	PASS
GSM 850	190	6	836.6	GMSK	2 Tx	23.17	18.77	0.075	38.45	PASS
GSM 850	128	6	824.2	GMSK	2 Tx	23.59	19.19	0.083	38.45	PASS
GSM 850	251	6	848.8	GMSK	3 Tx	21.2	16.80	0.048	38.45	PASS
GSM 850	190	6	836.6	GMSK	3 Tx	20.98	16.58	0.045	38.45	PASS
GSM 850	128	6	824.2	GMSK	3 Tx	21.29	16.89	0.049	38.45	PASS
GSM 850	251	6	848.8	GMSK	4 Tx	18.77	14.37	0.027	38.45	PASS
GSM 850	190	6	836.6	GMSK	4 Tx	18.69	14.29	0.027	38.45	PASS
GSM 850	128	6	824.2	GMSK	4 Tx	19.05	14.65	0.029	38.45	PASS
PCS 1900	810	5	1909.8	GMSK	1 Tx	21.30	21.65	0.146	33	PASS
PCS 1900	661	5	1880.0	GMSK	1 Tx	21.37	21.72	0.149	33	PASS
PCS 1900	512	5	1850.2	GMSK	1 Tx	21.26	21.61	0.145	33	PASS
PCS 1900	810	5	1909.8	GMSK	2 Tx	20.98	21.33	0.136	33	PASS
PCS 1900	661	5	1880.0	GMSK	2 Tx	20.87	21.22	0.132	33	PASS
PCS 1900	512	5	1850.2	GMSK	2 Tx	20.82	21.17	0.131	33	PASS
PCS 1900	810	5	1909.8	GMSK	3 Tx	20.53	20.88	0.122	33	PASS
PCS 1900	661	5	1880.0	GMSK	3 Tx	20.45	20.80	0.120	33	PASS
PCS 1900	512	5	1850.2	GMSK	3 Tx	20.29	20.64	0.116	33	PASS
PCS 1900	810	5	1909.8	GMSK	4 Tx	18.93	19.28	0.085	33	PASS
PCS 1900	661	5	1880.0	GMSK	4 Tx	18.84	19.19	0.083	33	PASS
PCS 1900	512	5	1850.2	GMSK	4 Tx	18.36	18.71	0.074	33	PASS

Peak to Average Ratio EGPRS

Band	Channel	Freq (MHz)	Slots	Result (dB)	Limit (dB)	Verdict
GSM 850	251	848.8	1 Tx	12.35	13	PASS
GSM 850	190	836.6	1 Tx	12.35	13	PASS
GSM 850	128	824.2	1 Tx	12.29	13	PASS
PCS 1900	810	1909.8	1 Tx	12.14	13	PASS
PCS 1900	661	1880.0	1 Tx	12.35	13	PASS
PCS 1900	512	1850.2	1 Tx	12.32	13	PASS



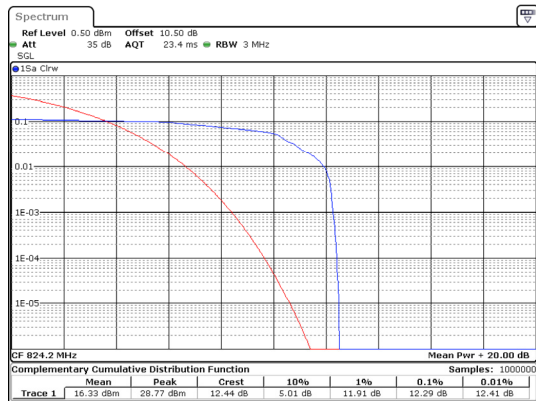
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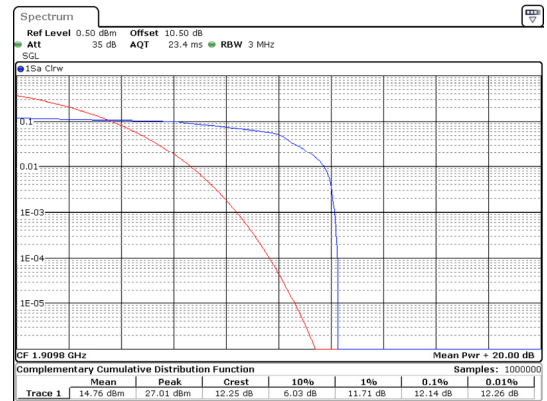
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 Date: 2.JUN.2024 11:30:56

GSM 850 0.2MHz/848.8/High

GSM 850 0.2MHz/836.6/Mid



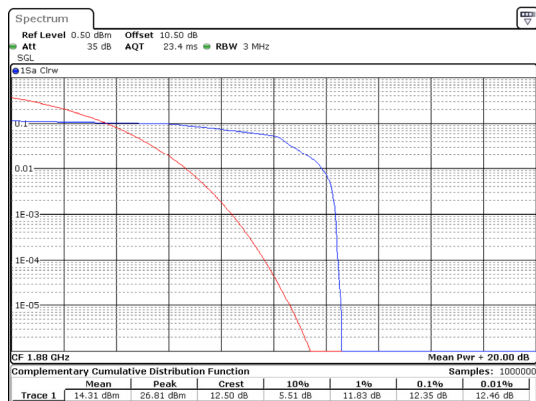
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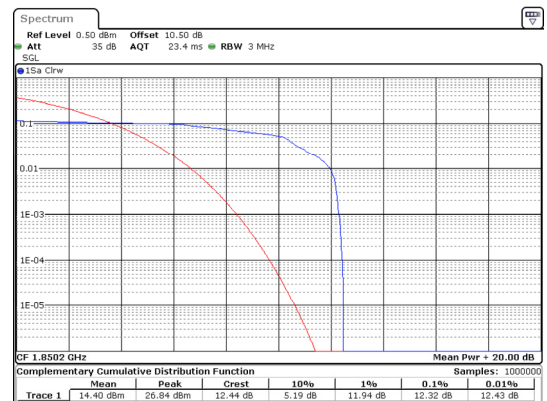
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 Date: 2.JUN.2024 11:28:56

GSM 850 0.2MHz/824.2/Low

PCS 1900 0.2MHz/1909.8/High



ProjectNo:2401T76732E-RF Tester:Bamboo Zhan
 Date: 2.JUN.2024 11:29:03



ProjectNo:2401T76732E-RF Tester:Bamboo Zhan
 Date: 2.JUN.2024 11:29:11

PCS 1900 0.2MHz/1880.0/Mid

PCS 1900 0.2MHz/1850.2/Low

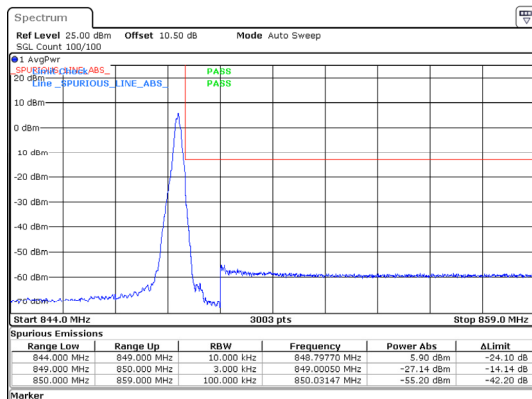
Occupied Bandwidth EGPRS

Band	Channel	Freq (MHz)	Slots	OBW (MHz)	26dB BW (MHz)	Verdict
GSM 850	190	836.6	1 Tx	0.24313	0.307	PASS
PCS 1900	661	1880.0	1 Tx	0.24313	0.301	PASS

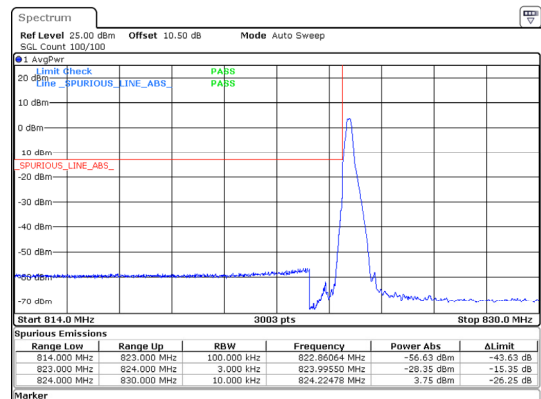
Spectrum Ref Level 30.50 dBm Offset 10.50 dB RBW 3 kHz Att 30 dB SWT 632.1 μs VBW 10 kHz Mode Auto FFT SQL Count 100/100 GAT:IFP 1PK Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm M1[1] 17.08 dBm 836.60290 MHz 243.125904486 kHz T1 17.08 dBm 836.47644 MHz Occ Bw T2 17.08 dBm 836.72156 MHz Occ Bw CF 836.6 MHz 691 pts Span 2.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>836.60290 MHz</td><td>17.08 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>836.47644 MHz</td><td>3.12 dBm</td><td>Occ Bw</td><td>243.125904486 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>836.72156 MHz</td><td>1.78 dBm</td><td></td><td></td></tr></table> ProjectNo:2401T76732E-RF Tester:Jim Cheng Date: 8.JUL.2024 10:49:56	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		836.60290 MHz	17.08 dBm			T1	1		836.47644 MHz	3.12 dBm	Occ Bw	243.125904486 kHz	T2	1		836.72156 MHz	1.78 dBm			Spectrum Ref Level 35.00 dBm Offset 10.50 dB RBW 3 kHz Att 35 dB SWT 632.1 μs VBW 10 kHz Mode Auto FFT SQL Count 100/100 GAT:IFP 1PK Max 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm M1[1] 17.82 dBm 836.59710 MHz 306.8 kHz T1 17.82 dBm 836.44955 MHz ndb down T2 17.82 dBm 836.75630 MHz Q factor CF 836.6 MHz 691 pts Span 2.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>836.59710 MHz</td><td>17.82 dBm</td><td>ndb down</td><td>306.8 kHz</td></tr><tr><td>T1</td><td>1</td><td></td><td>836.44955 MHz</td><td>-9.20 dBm</td><td>ndb</td><td>26.00 dB</td></tr><tr><td>T2</td><td>1</td><td></td><td>836.75630 MHz</td><td>-9.14 dBm</td><td>Q factor</td><td>2726.6</td></tr></table> ProjectNo:2401T76732E-RF Tester:Jim Cheng Date: 8.JUL.2024 10:50:11	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		836.59710 MHz	17.82 dBm	ndb down	306.8 kHz	T1	1		836.44955 MHz	-9.20 dBm	ndb	26.00 dB	T2	1		836.75630 MHz	-9.14 dBm	Q factor	2726.6
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																			
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Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																			
M1	1		1.87998260 GHz	14.46 dBm																																																					
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99%OBW	26%OBW																																																								
PCS 1900 0.2MHz/1880.0/Mid	PCS 1900 0.2MHz/1880.0/Mid																																																								

Conducted Band Edge EGPRS

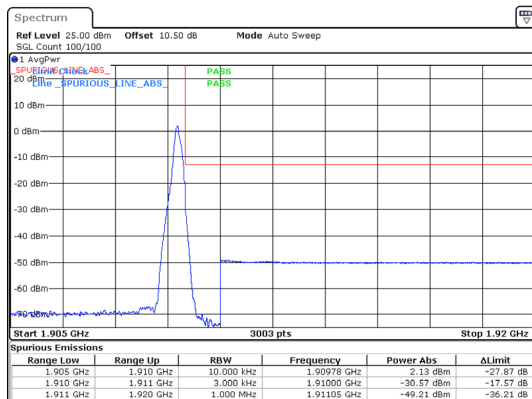
Band	Channel	Freq (MHz)	Slots	Result	Verdict
GSM 850	251	848.8	1 Tx	see graph	PASS
GSM 850	128	824.2	1 Tx	see graph	PASS
PCS 1900	810	1909.8	1 Tx	see graph	PASS
PCS 1900	512	1850.2	1 Tx	see graph	PASS



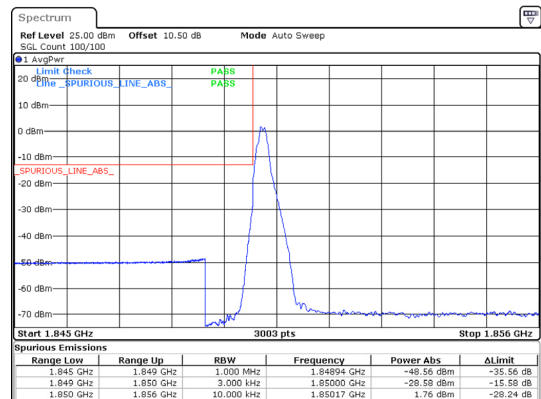
GSM 850 0.2MHz/848.8/High



GSM 850 0.2MHz/824.2/Low



PCS 1900 0.2MHz/1909.8/High



PCS 1900 0.2MHz/1850.2/Low

Frequency Stability EGPRS

GSM 850							
Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment Temperature(°C)/ Voltage(V _{DC})
GSM 850	190	836.6	10.59	0.01266	±2.5	PASS	20°C/3.27V
GSM 850	190	836.6	13.33	0.01593	±2.5	PASS	20°C/4.4V
GSM 850	190	836.6	13.69	0.01636	±2.5	PASS	-30°C/3.85V
GSM 850	190	836.6	16.27	0.01945	±2.5	PASS	-20°C/3.85V
GSM 850	190	836.6	11.59	0.01385	±2.5	PASS	-10°C/3.85V
GSM 850	190	836.6	-1.19	-0.00142	±2.5	PASS	0°C/3.85V
GSM 850	190	836.6	12.88	0.01540	±2.5	PASS	10°C/3.85V
GSM 850	190	836.6	12.33	0.01474	±2.5	PASS	20°C/3.85V
GSM 850	190	836.6	10.4	0.01243	±2.5	PASS	30°C/3.85V
GSM 850	190	836.6	16.5	0.01972	±2.5	PASS	40°C/3.85V
GSM 850	190	836.6	8.2	0.00980	±2.5	PASS	50°C/3.85V
PCS 1900							
Band	Channel(L/H)	Freq (MHz)	Lower Edge (MHz) (Result)	Limit (1850MHz)	Upper Edge (MHz) (Result)	Limit (1910MHz)	Environment Temperature(°C)/ Voltage(V _{DC})
PCS 1900	512/810	1850.2/1909.8	1850.071	1850.000	1909.922	1910.000	20°C/3.27V
PCS 1900	512/810	1850.2/1909.8	1850.038	1850.000	1909.904	1910.000	20°C/4.4V
PCS 1900	512/810	1850.2/1909.8	1850.133	1850.000	1909.877	1910.000	-30°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.162	1850.000	1909.814	1910.000	-20°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.004	1850.000	1909.972	1910.000	-10°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.180	1850.000	1909.897	1910.000	0°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.042	1850.000	1909.998	1910.000	10°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.062	1850.000	1909.853	1910.000	20°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.059	1850.000	1909.851	1910.000	30°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.108	1850.000	1909.897	1910.000	40°C/3.85V
PCS 1900	512/810	1850.2/1909.8	1850.175	1850.000	1909.849	1910.000	50°C/3.85V