

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power (dBm)	Gain(dBi)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	30.54	1.6	32.14	33	PASS
GSM1900	661	30.48	1.6	32.08	33	PASS
GSM1900	810	30.39	1.6	31.99	33	PASS

Band	Channel	Up Slot Num	Power(dBm)	Gain(dBi)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	30.63	1.6	32.23	33	PASS
GPRS1900	661	1	30.48	1.6	32.08	33	PASS
GPRS1900	810	1	30.37	1.6	31.97	33	PASS
GPRS1900	512	2	30.49	1.6	32.09	33	PASS
GPRS1900	661	2	30.42	1.6	32.02	33	PASS
GPRS1900	810	2	30.3	1.6	31.9	33	PASS
GPRS1900	512	3	28.49	1.6	30.09	33	PASS
GPRS1900	661	3	28.43	1.6	30.03	33	PASS
GPRS1900	810	3	28.29	1.6	29.89	33	PASS
GPRS1900	512	4	26.15	1.6	27.75	33	PASS
GPRS1900	661	4	26.09	1.6	27.69	33	PASS
GPRS1900	810	4	26.01	1.6	27.61	33	PASS

Band	Channel	Up Slot Num	Power(dBm)	Gain(dBi)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.72	1.6	27.32	33	PASS
EGPRS1900	661	1	27.34	1.6	28.94	33	PASS
EGPRS1900	810	1	27.31	1.6	28.91	33	PASS
EGPRS1900	512	2	25.58	1.6	27.18	33	PASS
EGPRS1900	661	2	27.25	1.6	28.85	33	PASS
EGPRS1900	810	2	27.23	1.6	28.83	33	PASS
EGPRS1900	512	3	24.03	1.6	25.63	33	PASS
EGPRS1900	661	3	24.09	1.6	25.69	33	PASS
EGPRS1900	810	3	24.13	1.6	25.73	33	PASS

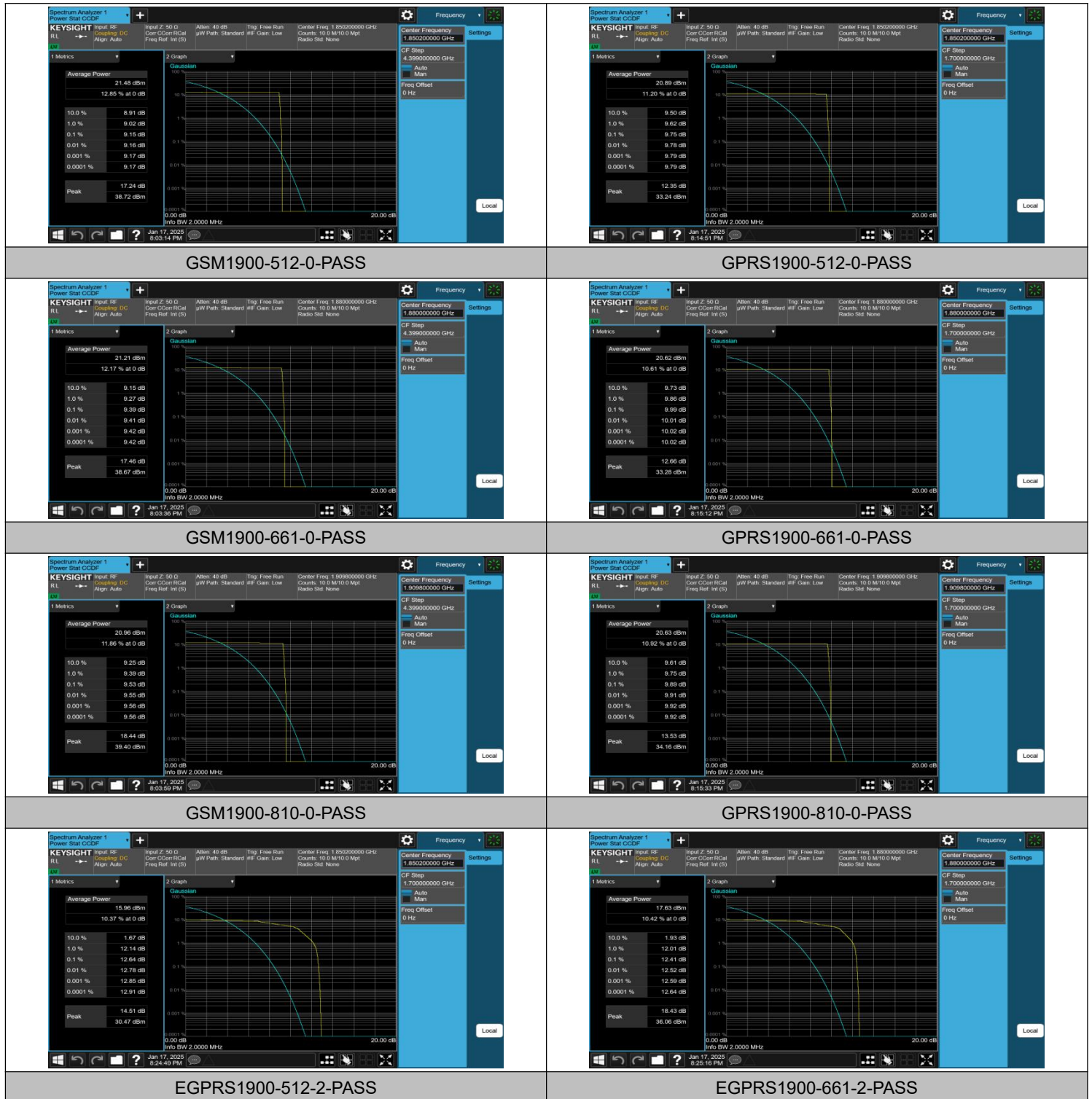
EGPRS1900	512	4	22.18	1.6	23.78	33	PASS
EGPRS1900	661	4	22.76	1.6	24.36	33	PASS
EGPRS1900	810	4	22.51	1.6	24.11	33	PASS

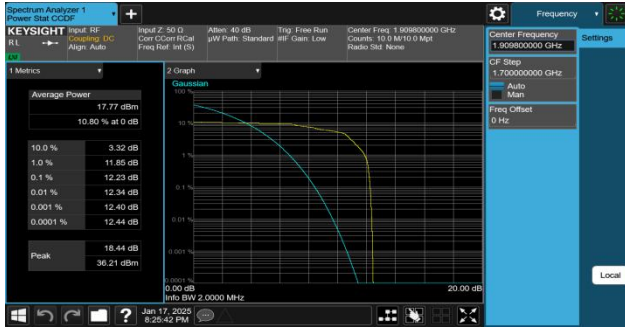
Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	9.15	13	PASS
GPRS1900	512	9.75	13	PASS
GSM1900	661	9.39	13	PASS
GPRS1900	661	9.99	13	PASS
GSM1900	810	9.53	13	PASS
GPRS1900	810	9.89	13	PASS
EGPRS1900	512	12.64	13	PASS
EGPRS1900	661	12.41	13	PASS
EGPRS1900	810	12.23	13	PASS

Test Graphs





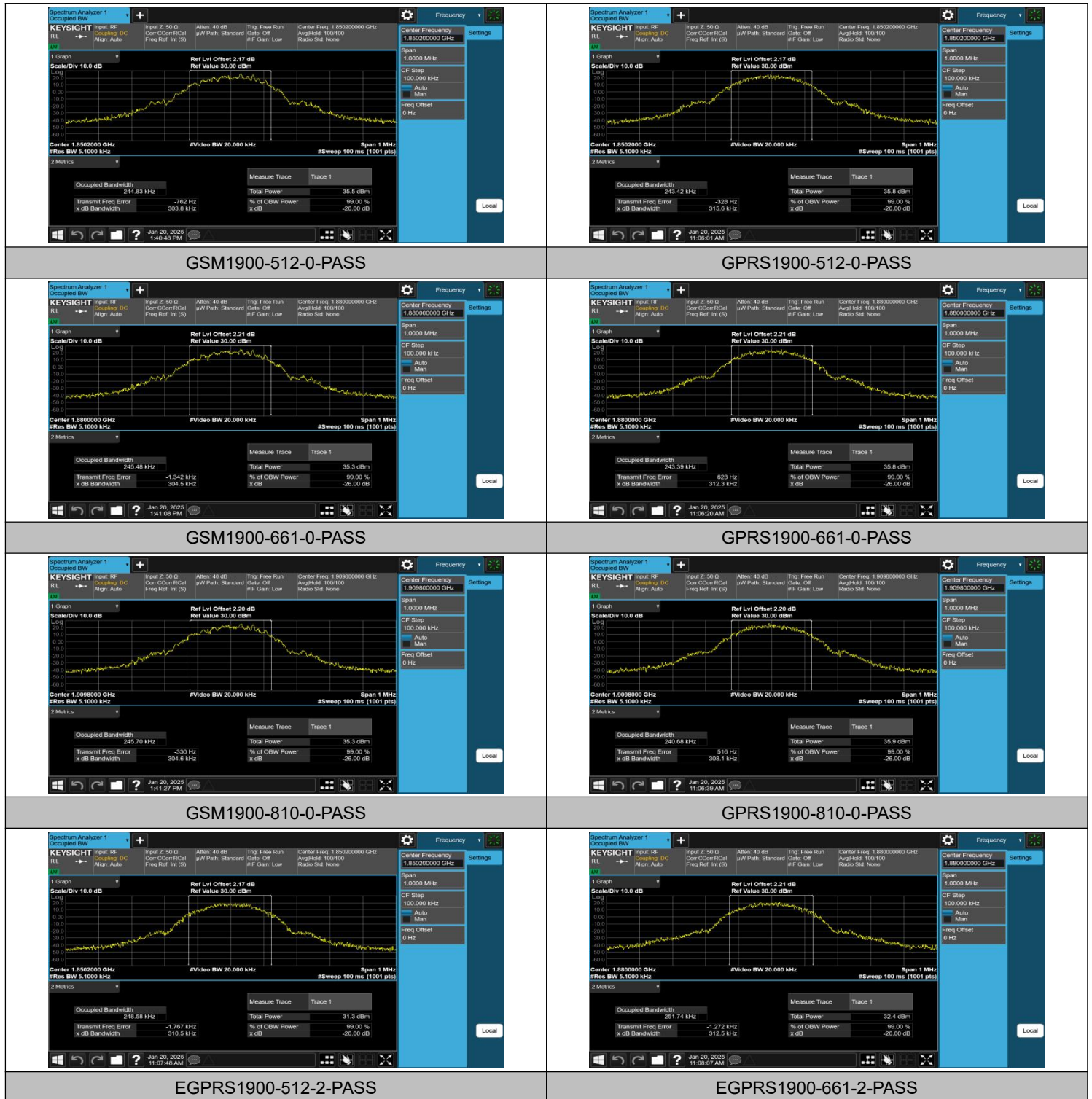
EGPRS1900-810-2-PASS

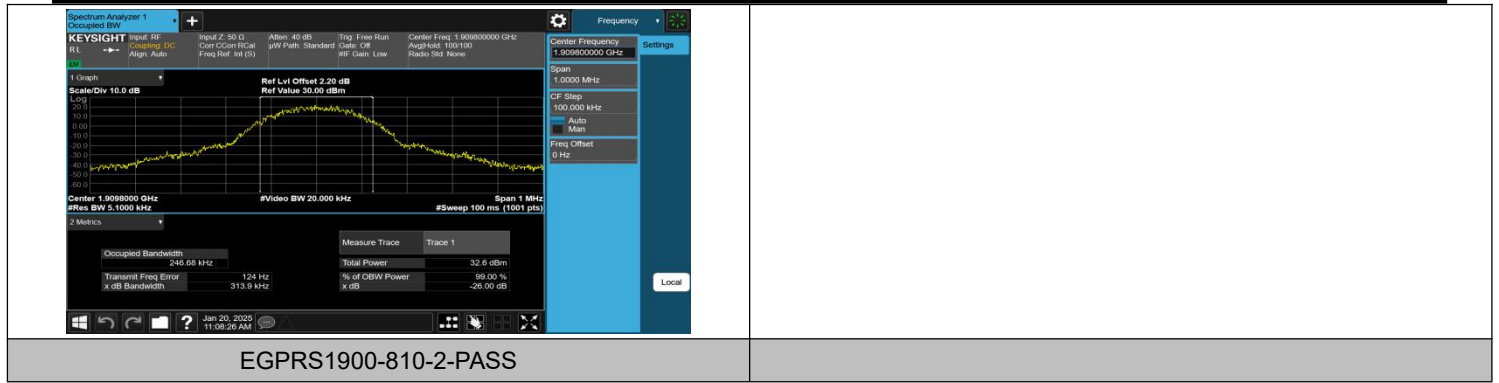
26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
GSM1900	512	0.24483	0.3038	PASS
GPRS1900	512	0.24342	0.3156	PASS
GSM1900	661	0.24548	0.3045	PASS
GPRS1900	661	0.24339	0.3123	PASS
GSM1900	810	0.24570	0.3046	PASS
GPRS1900	810	0.24068	0.3081	PASS
EGPRS1900	512	0.24858	0.3105	PASS
EGPRS1900	661	0.25174	0.3125	PASS
EGPRS1900	810	0.24668	0.3139	PASS

Test Graphs



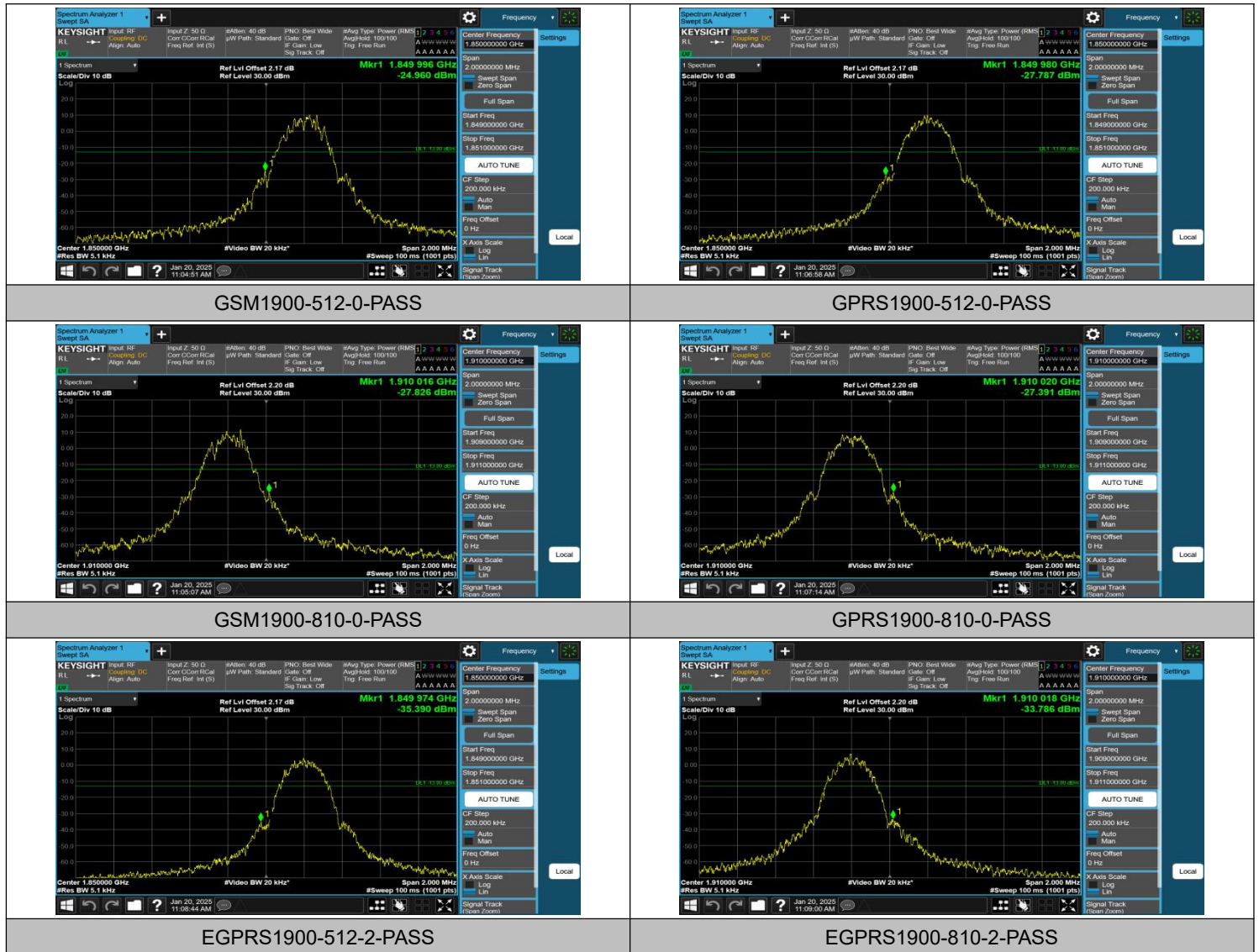


Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1850.00	-24.96	-13	PASS
GPRS1900	512	1849.98	-27.79	-13	PASS
GSM1900	810	1910.02	-27.83	-13	PASS
GPRS1900	810	1910.02	-27.39	-13	PASS
EGPRS1900	512	1849.97	-35.39	-13	PASS
EGPRS1900	810	1910.02	-33.79	-13	PASS

Test Graphs



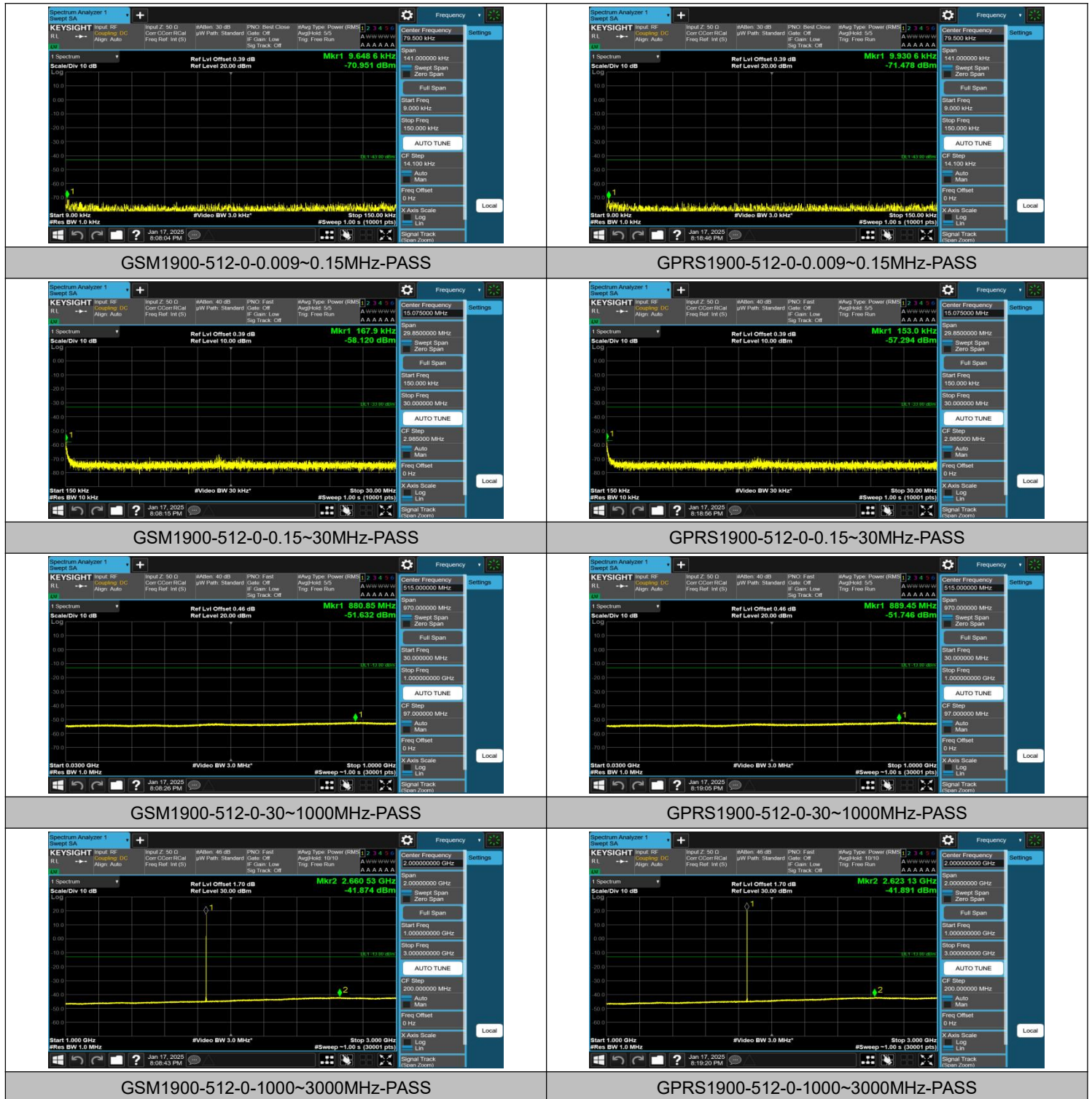
Conducted Spurious Emission

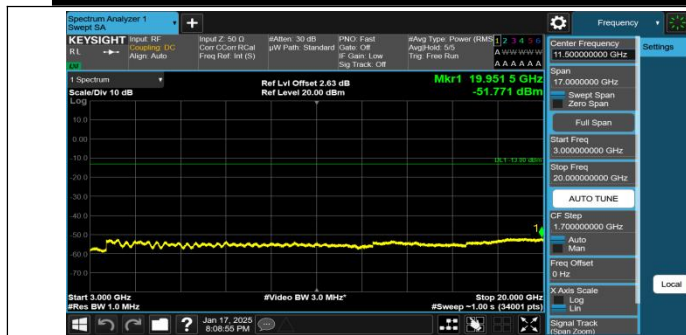
Test Result

Band	Channel	Frequency Range (MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-70.95	-43	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-71.48	-43	PASS
GSM1900	512	0.15~30MHz	0.17	-58.12	-33	PASS
GPRS1900	512	0.15~30MHz	0.15	-57.29	-33	PASS
GSM1900	512	30~1000MHz	880.85	-51.63	-13	PASS
GPRS1900	512	30~1000MHz	889.45	-51.75	-13	PASS
GSM1900	512	1000~3000MHz	2660.53	-41.87	-13	PASS
GPRS1900	512	1000~3000MHz	2623.13	-41.89	-13	PASS
GSM1900	512	3000~20000MHz	19951.5	-51.77	-13	PASS
GPRS1900	512	3000~20000MHz	3700.5	-49.25	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-70.89	-43	PASS
GPRS1900	661	0.009~0.15MHz	0.15	-72.56	-43	PASS
GSM1900	661	0.15~30MHz	0.16	-57.75	-33	PASS
GPRS1900	661	0.15~30MHz	0.17	-56.17	-33	PASS
GSM1900	661	30~1000MHz	869.66	-51.8	-13	PASS
GPRS1900	661	30~1000MHz	892.85	-51.68	-13	PASS
GSM1900	661	1000~3000MHz	2659.53	-41.96	-13	PASS
GPRS1900	661	1000~3000MHz	2997.67	-41.9	-13	PASS
GSM1900	661	3000~20000MHz	3760	-48.66	-13	PASS
GPRS1900	661	3000~20000MHz	19904	-51.78	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-71.82	-43	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-70.27	-43	PASS
GSM1900	810	0.15~30MHz	0.16	-58.59	-33	PASS
GPRS1900	810	0.15~30MHz	0.15	-57.16	-33	PASS
GSM1900	810	30~1000MHz	910.4	-51.73	-13	PASS
GPRS1900	810	30~1000MHz	880.37	-51.79	-13	PASS
GSM1900	810	1000~3000MHz	2612.53	-41.83	-13	PASS
GPRS1900	810	1000~3000MHz	2654.93	-41.92	-13	PASS
GSM1900	810	3000~20000MHz	3819.5	-45.03	-13	PASS
GPRS1900	810	3000~20000MHz	19204.5	-51.76	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.15	-71.38	-43	PASS
EGPRS1900	512	0.15~30MHz	0.15	-58.61	-33	PASS
EGPRS1900	512	30~1000MHz	905.65	-50.69	-13	PASS
EGPRS1900	512	1000~3000MHz	2644	-41.99	-13	PASS
EGPRS1900	512	3000~20000MHz	19222.5	-51.84	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.08	-70.1	-43	PASS
EGPRS1900	661	0.15~30MHz	0.15	-57.74	-33	PASS

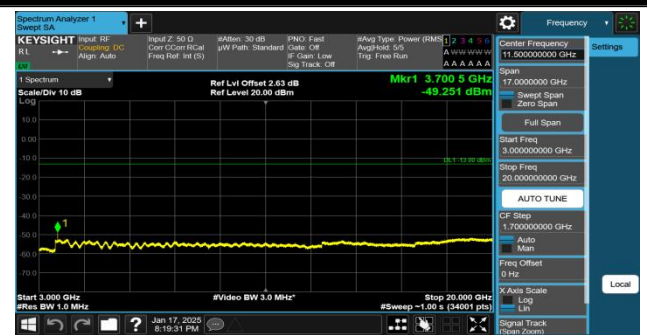
EGPRS1900	661	30~1000MHz	914.77	-51.82	-13	PASS
EGPRS1900	661	1000~3000MHz	2617.6	-42.01	-13	PASS
EGPRS1900	661	3000~20000MHz	19298.5	-51.75	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.07	-70.21	-43	PASS
EGPRS1900	810	0.15~30MHz	0.17	-56.39	-33	PASS
EGPRS1900	810	30~1000MHz	895.56	-51.83	-13	PASS
EGPRS1900	810	1000~3000MHz	2630.07	-41.98	-13	PASS
EGPRS1900	810	3000~20000MHz	19349.5	-51.96	-13	PASS

Test Graphs

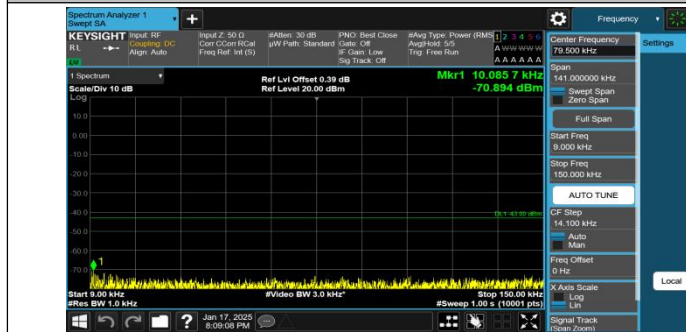




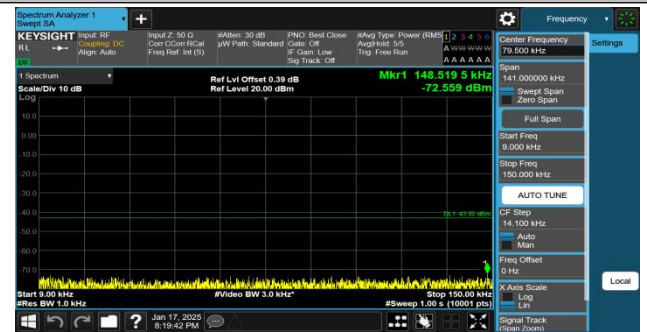
GSM1900-512-0-3000~20000MHz-PASS



GPRS1900-512-0-3000~20000MHz-PASS



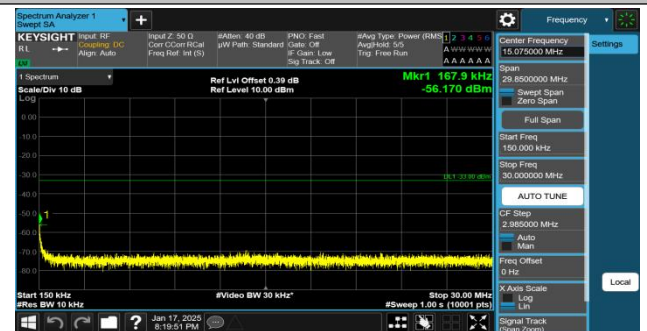
GSM1900-661-0-0.009~0.15MHz-PASS



GPRS1900-661-0-0.009~0.15MHz-PASS



GSM1900-661-0-0.15~30MHz-PASS



GPRS1900-661-0-0.15~30MHz-PASS



GSM1900-661-0-30~1000MHz-PASS



GPRS1900-661-0-30~1000MHz-PASS



GSM1900-661-0-1000~3000MHz-PASS



GPRS1900-661-0-1000~3000MHz-PASS



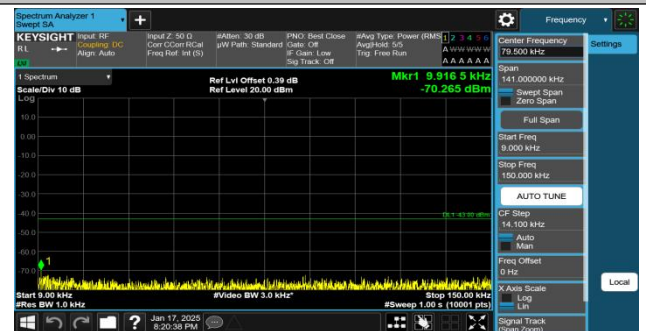
GSM1900-661-0-3000~20000MHz-PASS



GPRS1900-661-0-3000~20000MHz-PASS



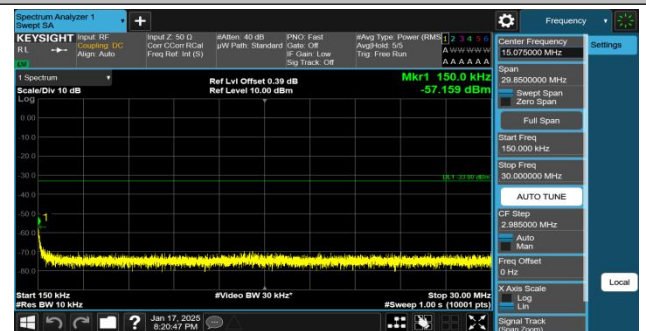
GSM1900-810-0-0.009~0.15MHz-PASS



GPRS1900-810-0-0.009~0.15MHz-PASS



GSM1900-810-0-0.15~30MHz-PASS



GPRS1900-810-0-0.15~30MHz-PASS



GSM1900-810-0-30~1000MHz-PASS



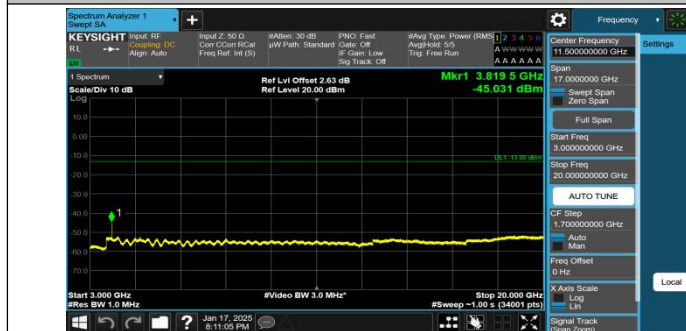
GPRS1900-810-0-30~1000MHz-PASS



GSM1900-810-0-1000~3000MHz-PASS



GPRS1900-810-0-1000~3000MHz-PASS



GSM1900-810-0-3000~20000MHz-PASS



GPRS1900-810-0-3000~20000MHz-PASS



EGPRS1900-512-2-0.009~0.15MHz-PASS



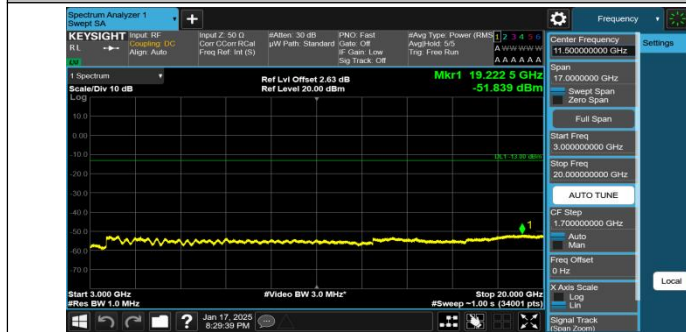
EGPRS1900-512-2-0.15~30MHz-PASS



EGPRS1900-512-2-30~1000MHz-PASS



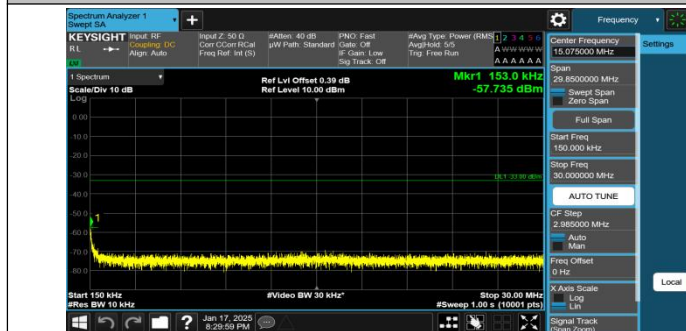
EGPRS1900-512-2-1000~3000MHz-PASS



EGPRS1900-512-2-3000~20000MHz-PASS



EGPRS1900-661-2-0.009~0.15MHz-PASS



EGPRS1900-661-2-0.15~30MHz-PASS



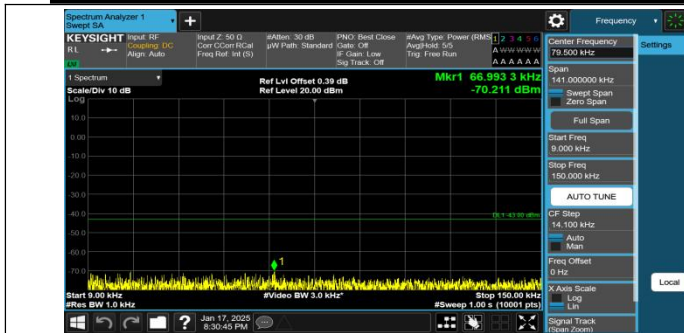
EGPRS1900-661-2-30~1000MHz-PASS



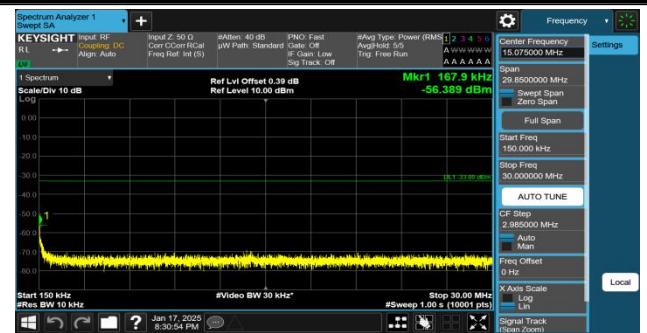
EGPRS1900-661-2-1000~3000MHz-PASS



EGPRS1900-661-2-3000~20000MHz-PASS



EGPRS1900-810-2-0.009~0.15MHz-PASS



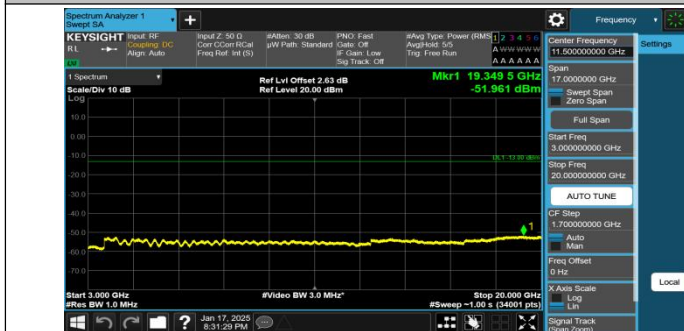
EGPRS1900-810-2-0.15~30MHz-PASS



EGPRS1900-810-2-30~1000MHz-PASS



EGPRS1900-810-2-1000~3000MHz-PASS



EGPRS1900-810-2-3000~20000MHz-PASS

Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	VN	NT	-2.74	-0.001481	±2.5	PASS
GSM1900	512	VL	NT	-10.20	-0.005513	±2.5	PASS
GSM1900	512	VH	NT	-23.01	-0.012436	±2.5	PASS
GPRS1900	512	VN	NT	14.08	0.007610	±2.5	PASS
GPRS1900	512	VL	NT	0.07	0.000038	±2.5	PASS
GPRS1900	512	VH	NT	-3.18	-0.001719	±2.5	PASS
GSM1900	661	VN	NT	-15.95	-0.008484	±2.5	PASS
GSM1900	661	VL	NT	-17.69	-0.009410	±2.5	PASS
GSM1900	661	VH	NT	-15.46	-0.008223	±2.5	PASS
GPRS1900	661	VN	NT	-15.01	-0.007984	±2.5	PASS
GPRS1900	661	VL	NT	-17.96	-0.009553	±2.5	PASS
GPRS1900	661	VH	NT	-8.49	-0.004516	±2.5	PASS
GSM1900	810	VN	NT	2.20	0.001152	±2.5	PASS
GSM1900	810	VL	NT	-5.87	-0.003074	±2.5	PASS
GSM1900	810	VH	NT	-0.84	-0.000440	±2.5	PASS
GPRS1900	810	VN	NT	-13.35	-0.006990	±2.5	PASS
GPRS1900	810	VL	NT	-31.28	-0.016379	±2.5	PASS
GPRS1900	810	VH	NT	-17.10	-0.008954	±2.5	PASS
EGPRS1900	512	VN	NT	-32.54	-0.017587	±2.5	PASS
EGPRS1900	512	VL	NT	-1.91	-0.001032	±2.5	PASS
EGPRS1900	512	VH	NT	-6.32	-0.003416	±2.5	PASS
EGPRS1900	661	VN	NT	7.73	0.004112	±2.5	PASS
EGPRS1900	661	VL	NT	-8.15	-0.004335	±2.5	PASS
EGPRS1900	661	VH	NT	-0.72	-0.000383	±2.5	PASS
EGPRS1900	810	VN	NT	-17.07	-0.008938	±2.5	PASS
EGPRS1900	810	VL	NT	-5.53	-0.002896	±2.5	PASS
EGPRS1900	810	VH	NT	-2.45	-0.001283	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	0.73	0.000395	±2.5	PASS
GSM1900	512	NV	-20	-24.98	-0.013501	±2.5	PASS
GSM1900	512	NV	-10	-12.24	-0.006616	±2.5	PASS
GSM1900	512	NV	0	-23.49	-0.012696	±2.5	PASS
GSM1900	512	NV	10	-18.57	-0.010037	±2.5	PASS

GSM1900	512	NV	20	-17.92	-0.009685	±2.5	PASS
GSM1900	512	NV	30	-13.34	-0.007210	±2.5	PASS
GSM1900	512	NV	40	-2.52	-0.001362	±2.5	PASS
GSM1900	512	NV	50	-16.87	-0.009118	±2.5	PASS
GPRS1900	512	NV	-30	-3.53	-0.001908	±2.5	PASS
GPRS1900	512	NV	-20	-7.28	-0.003935	±2.5	PASS
GPRS1900	512	NV	-10	-5.13	-0.002773	±2.5	PASS
GPRS1900	512	NV	0	-6.65	-0.003594	±2.5	PASS
GPRS1900	512	NV	10	7.22	0.003902	±2.5	PASS
GPRS1900	512	NV	20	5.05	0.002729	±2.5	PASS
GPRS1900	512	NV	30	-10.37	-0.005605	±2.5	PASS
GPRS1900	512	NV	40	-0.86	-0.000465	±2.5	PASS
GPRS1900	512	NV	50	-4.58	-0.002475	±2.5	PASS
GSM1900	661	NV	-30	-6.53	-0.003473	±2.5	PASS
GSM1900	661	NV	-20	-13.15	-0.006995	±2.5	PASS
GSM1900	661	NV	-10	-21.05	-0.011197	±2.5	PASS
GSM1900	661	NV	0	-21.45	-0.011410	±2.5	PASS
GSM1900	661	NV	10	-6.13	-0.003261	±2.5	PASS
GSM1900	661	NV	20	-13.48	-0.007170	±2.5	PASS
GSM1900	661	NV	30	-7.04	-0.003745	±2.5	PASS
GSM1900	661	NV	40	-11.25	-0.005984	±2.5	PASS
GSM1900	661	NV	50	-18.37	-0.009771	±2.5	PASS
GPRS1900	661	NV	-30	-3.29	-0.001750	±2.5	PASS
GPRS1900	661	NV	-20	-15.91	-0.008463	±2.5	PASS
GPRS1900	661	NV	-10	-25.84	-0.013745	±2.5	PASS
GPRS1900	661	NV	0	-5.74	-0.003053	±2.5	PASS
GPRS1900	661	NV	10	-13.24	-0.007043	±2.5	PASS
GPRS1900	661	NV	20	-6.22	-0.003309	±2.5	PASS
GPRS1900	661	NV	30	-6.18	-0.003287	±2.5	PASS
GPRS1900	661	NV	40	-1.56	-0.000830	±2.5	PASS
GPRS1900	661	NV	50	-7.63	-0.004059	±2.5	PASS
GSM1900	810	NV	-30	-4.41	-0.002309	±2.5	PASS
GSM1900	810	NV	-20	-14.85	-0.007776	±2.5	PASS
GSM1900	810	NV	-10	-6.83	-0.003576	±2.5	PASS
GSM1900	810	NV	0	-24.03	-0.012582	±2.5	PASS
GSM1900	810	NV	10	-13.12	-0.006870	±2.5	PASS
GSM1900	810	NV	20	-17.49	-0.009158	±2.5	PASS
GSM1900	810	NV	30	-8.44	-0.004419	±2.5	PASS
GSM1900	810	NV	40	-24.16	-0.012651	±2.5	PASS
GSM1900	810	NV	50	-18.69	-0.009786	±2.5	PASS
GPRS1900	810	NV	-30	-6.19	-0.003241	±2.5	PASS

GPRS1900	810	NV	-20	-24.30	-0.012724	±2.5	PASS
GPRS1900	810	NV	-10	-15.34	-0.008032	±2.5	PASS
GPRS1900	810	NV	0	-17.47	-0.009148	±2.5	PASS
GPRS1900	810	NV	10	4.09	0.002142	±2.5	PASS
GPRS1900	810	NV	20	-8.33	-0.004362	±2.5	PASS
GPRS1900	810	NV	30	-5.52	-0.002890	±2.5	PASS
GPRS1900	810	NV	40	-20.53	-0.010750	±2.5	PASS
GPRS1900	810	NV	50	-14.01	-0.007336	±2.5	PASS
EGPRS1900	512	NV	-30	11.81	0.006383	±2.5	PASS
EGPRS1900	512	NV	-20	-10.17	-0.005497	±2.5	PASS
EGPRS1900	512	NV	-10	-15.24	-0.008237	±2.5	PASS
EGPRS1900	512	NV	0	-2.92	-0.001578	±2.5	PASS
EGPRS1900	512	NV	10	-13.70	-0.007405	±2.5	PASS
EGPRS1900	512	NV	20	0.07	0.000038	±2.5	PASS
EGPRS1900	512	NV	30	0.73	0.000395	±2.5	PASS
EGPRS1900	512	NV	40	7.79	0.004210	±2.5	PASS
EGPRS1900	512	NV	50	-2.37	-0.001281	±2.5	PASS
EGPRS1900	661	NV	-30	-11.80	-0.006277	±2.5	PASS
EGPRS1900	661	NV	-20	-13.85	-0.007367	±2.5	PASS
EGPRS1900	661	NV	-10	-12.79	-0.006803	±2.5	PASS
EGPRS1900	661	NV	0	-13.50	-0.007181	±2.5	PASS
EGPRS1900	661	NV	10	7.07	0.003761	±2.5	PASS
EGPRS1900	661	NV	20	-12.02	-0.006394	±2.5	PASS
EGPRS1900	661	NV	30	-12.69	-0.006750	±2.5	PASS
EGPRS1900	661	NV	40	-11.83	-0.006293	±2.5	PASS
EGPRS1900	661	NV	50	-14.44	-0.007681	±2.5	PASS
EGPRS1900	810	NV	-30	5.90	0.003089	±2.5	PASS
EGPRS1900	810	NV	-20	-0.33	-0.000173	±2.5	PASS
EGPRS1900	810	NV	-10	-10.92	-0.005718	±2.5	PASS
EGPRS1900	810	NV	0	-12.65	-0.006624	±2.5	PASS
EGPRS1900	810	NV	10	-18.46	-0.009666	±2.5	PASS
EGPRS1900	810	NV	20	-11.92	-0.006241	±2.5	PASS
EGPRS1900	810	NV	30	-16.11	-0.008435	±2.5	PASS
EGPRS1900	810	NV	40	-14.48	-0.007582	±2.5	PASS
EGPRS1900	810	NV	50	-5.78	-0.003026	±2.5	PASS

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