

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power (dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GSM850	128	32.77	33.3	38.45	PASS
GSM850	190	32.62	33.15	38.45	PASS
GSM850	251	32.73	33.26	38.45	PASS

Band	Channel	Up Slot Num	Power(dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GPRS850	128	1	32.78	33.31	38.45	PASS
GPRS850	190	1	32.58	33.11	38.45	PASS
GPRS850	251	1	32.65	33.18	38.45	PASS
GPRS850	128	2	31.48	32.01	38.45	PASS
GPRS850	190	2	31.3	31.83	38.45	PASS
GPRS850	251	2	31.13	31.66	38.45	PASS
GPRS850	128	3	29.7	30.23	38.45	PASS
GPRS850	190	3	29.72	30.25	38.45	PASS
GPRS850	251	3	29.45	29.98	38.45	PASS
GPRS850	128	4	28.56	29.09	38.45	PASS
GPRS850	190	4	28.41	28.94	38.45	PASS
GPRS850	251	4	28.25	28.78	38.45	PASS

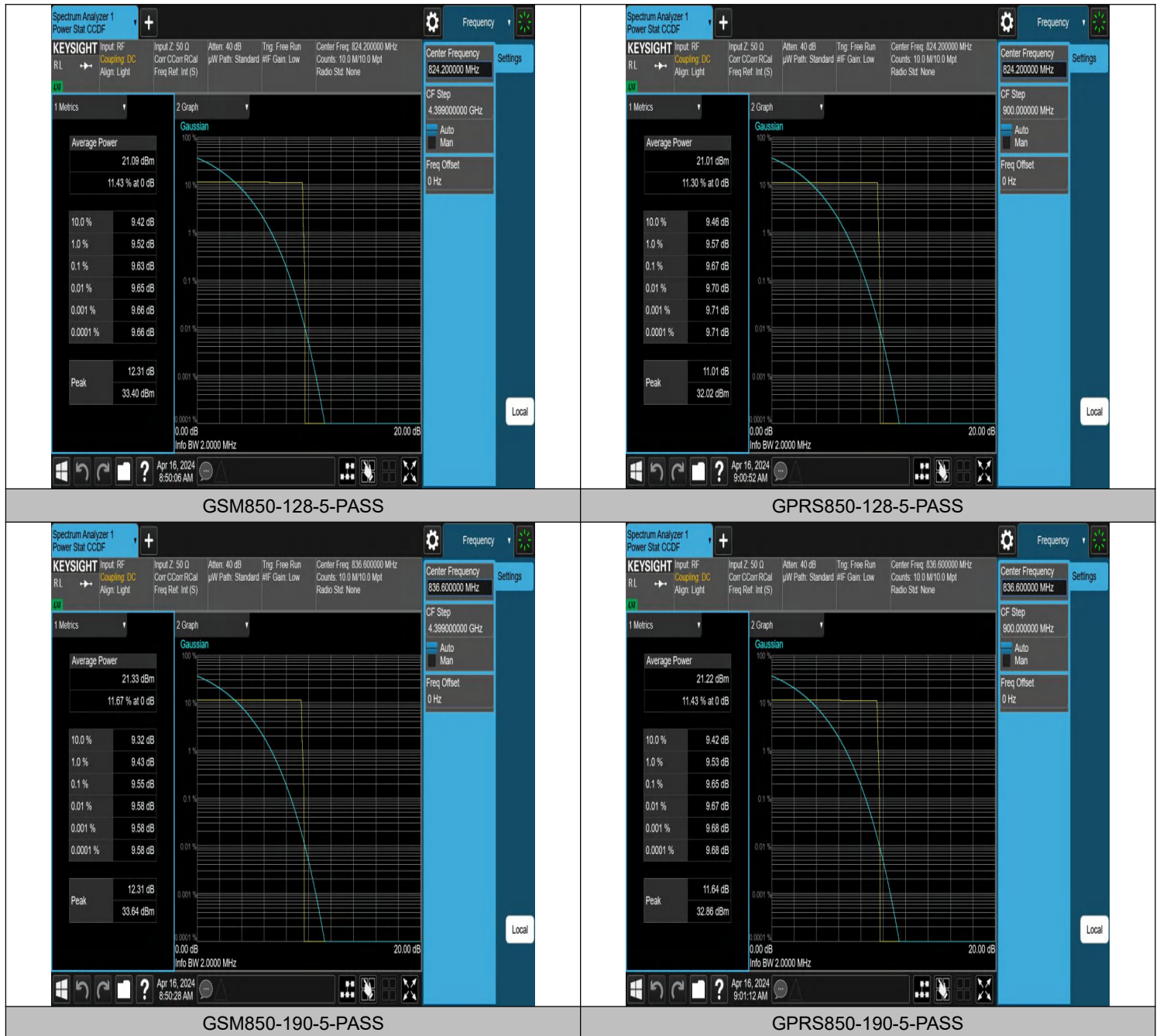
Band	Channel	Up Slot Num	Power(dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.34	27.87	38.45	PASS
EGPRS850	190	1	27.1	27.63	38.45	PASS
EGPRS850	251	1	26.92	27.45	38.45	PASS
EGPRS850	128	2	27.28	27.81	38.45	PASS
EGPRS850	190	2	27.04	27.57	38.45	PASS
EGPRS850	251	2	26.78	27.31	38.45	PASS
EGPRS850	128	3	24.94	25.47	38.45	PASS
EGPRS850	190	3	24.73	25.26	38.45	PASS
EGPRS850	251	3	24.54	25.07	38.45	PASS
EGPRS850	128	4	23.94	24.47	38.45	PASS
EGPRS850	190	4	23.68	24.21	38.45	PASS
EGPRS850	251	4	23.47	24	38.45	PASS

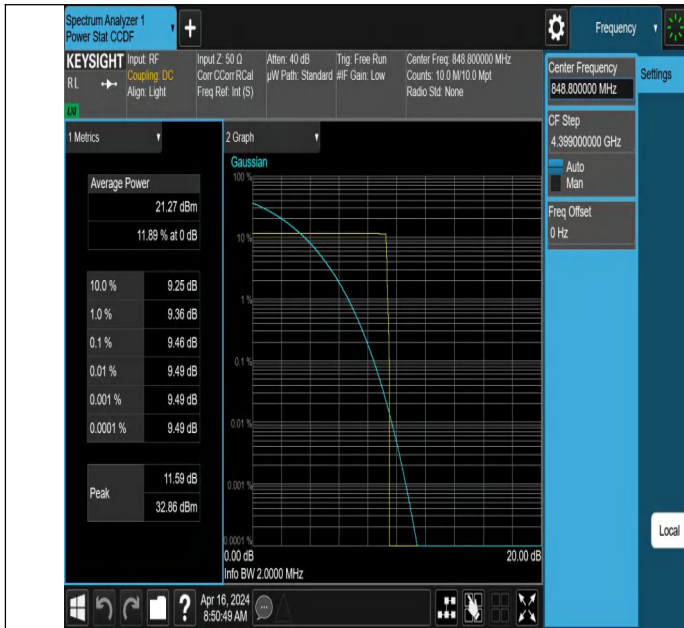
Peak-to-Average Ratio(CCDF)

Test Result

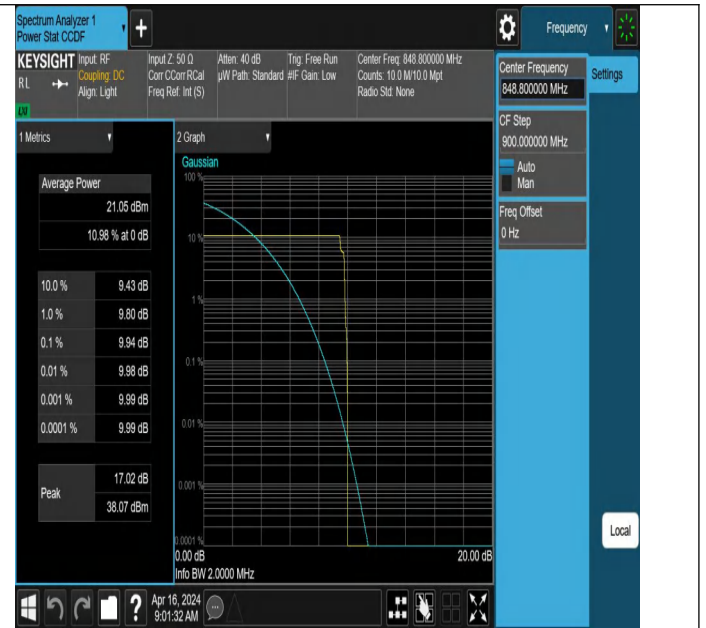
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.63	13	PASS
GPRS850	128	9.67	13	PASS
GSM850	190	9.55	13	PASS
GPRS850	190	9.65	13	PASS
GSM850	251	9.46	13	PASS
GPRS850	251	9.94	13	PASS
EGPRS850	128	12.77	13	PASS
EGPRS850	190	12.73	13	PASS
EGPRS850	251	12.69	13	PASS

Test Graphs

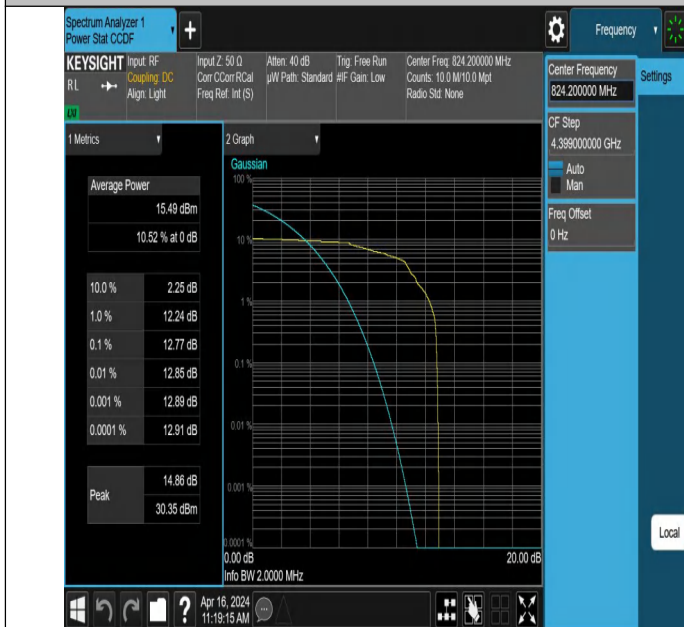




GSM850-251-5-PASS



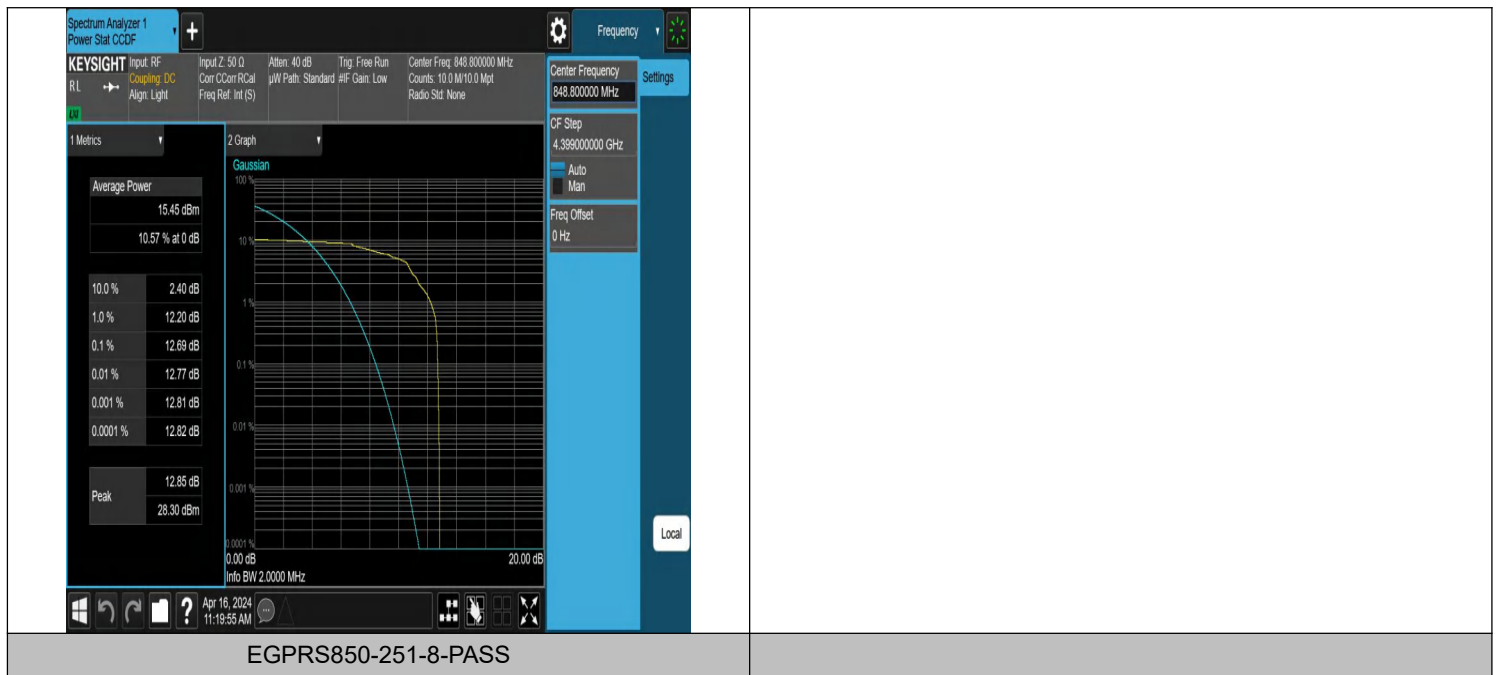
GPRS850-251-5-PASS



EGPRS850-128-8-PASS



EGPRS850-190-8-PASS

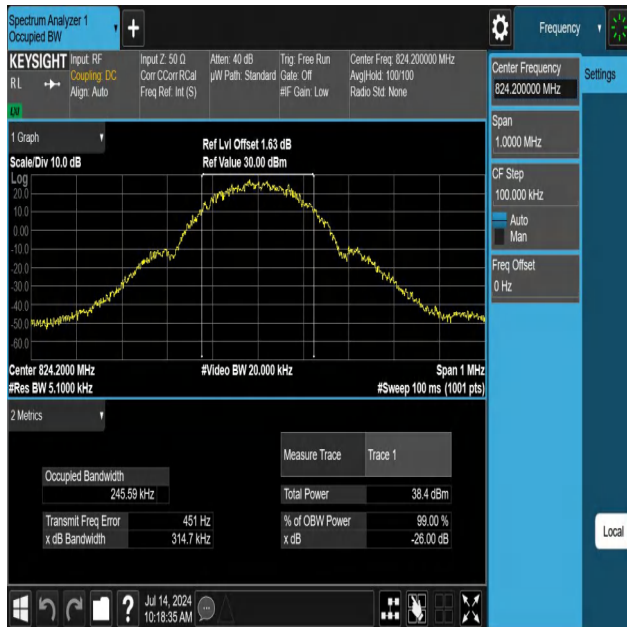


26dB Bandwidth and Occupied Bandwidth

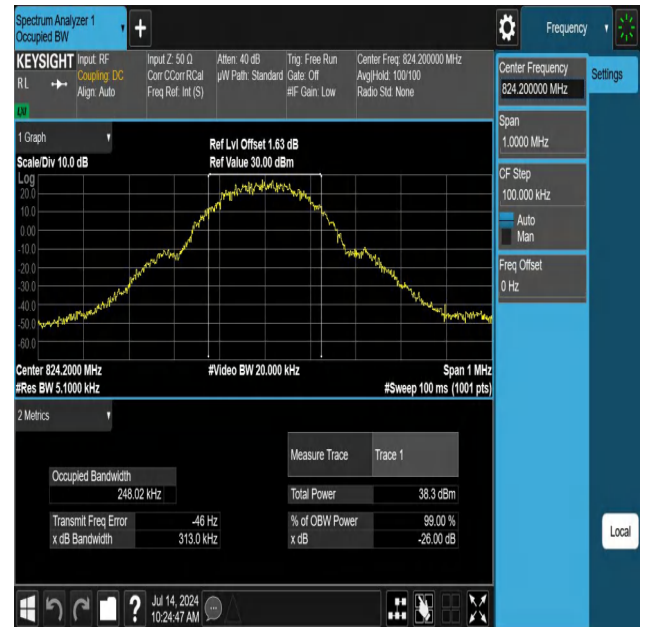
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
GSM850	128	0.24559	0.3147	PASS
GPRS850	128	0.24802	0.3130	PASS
GSM850	190	0.24811	0.3142	PASS
GPRS850	190	0.24465	0.3057	PASS
GPRS850	251	0.24832	0.3110	PASS
GSM850	251	0.24401	0.3158	PASS
EGPRS850	128	0.24369	0.3108	PASS
EGPRS850	190	0.24000	0.2937	PASS
EGPRS850	251	0.24688	0.3079	PASS

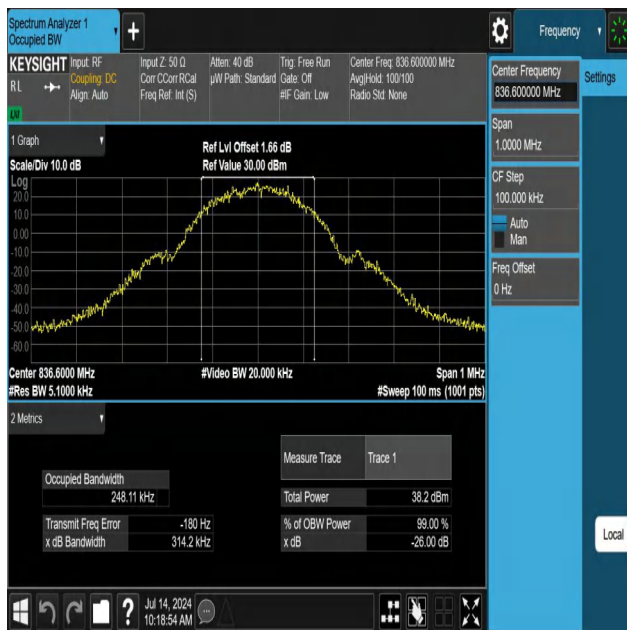
Test Graphs



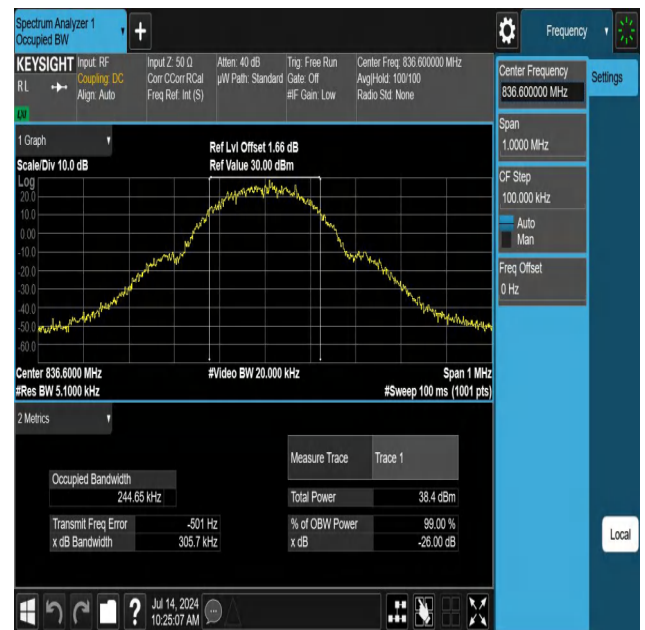
GSM850-128-5-PASS



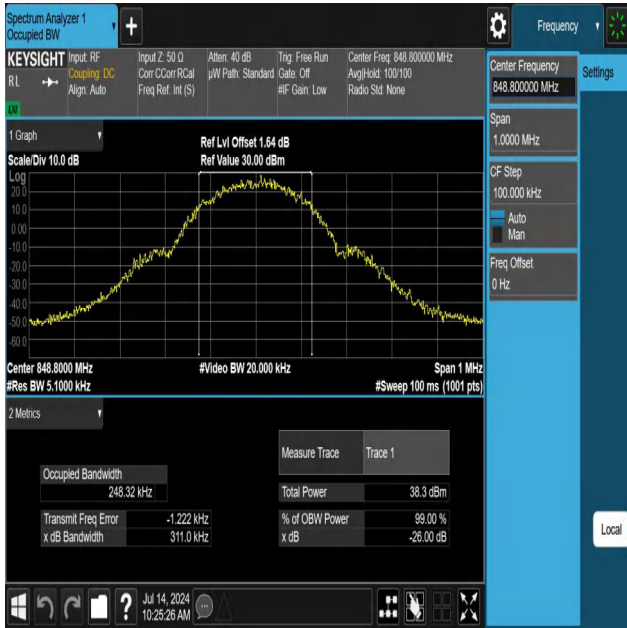
GPRS850-128-5-PASS



GSM850-190-5-PASS



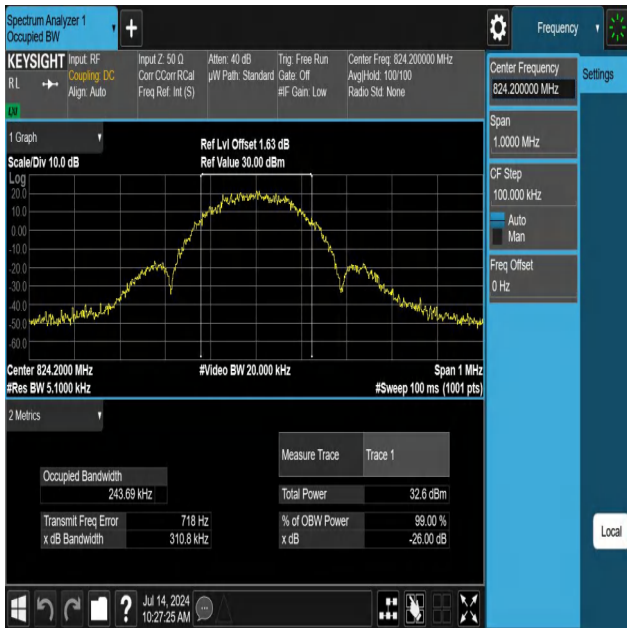
GPRS850-190-5-PASS



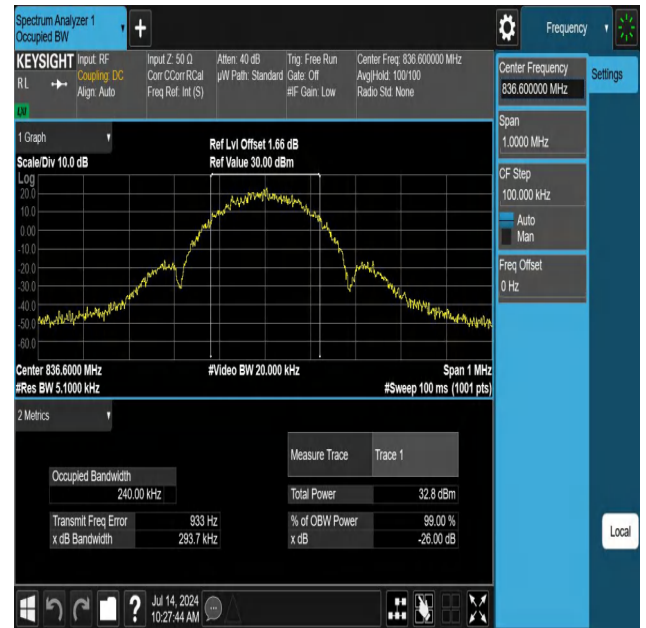
GPRS850-251-5-PASS



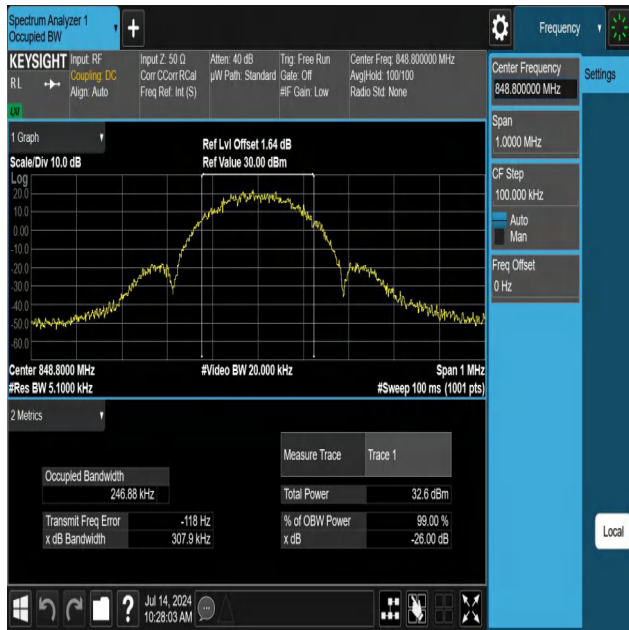
GSM850-251-5-PASS



EGPRS850-128-8-PASS



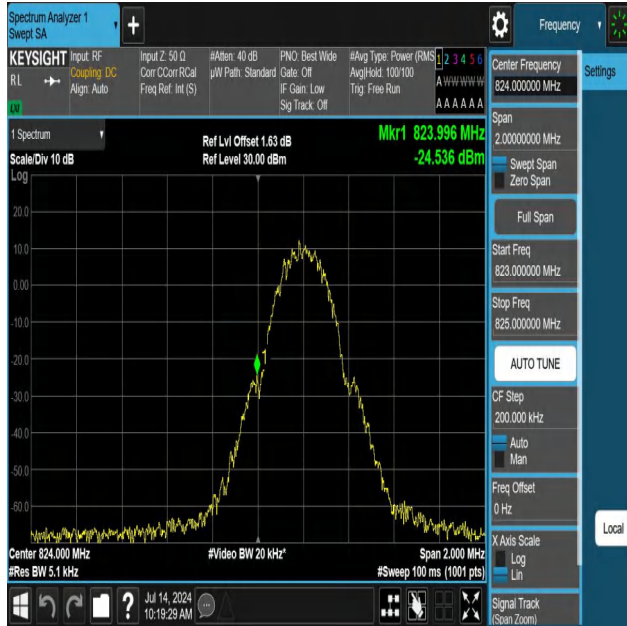
EGPRS850-190-8-PASS



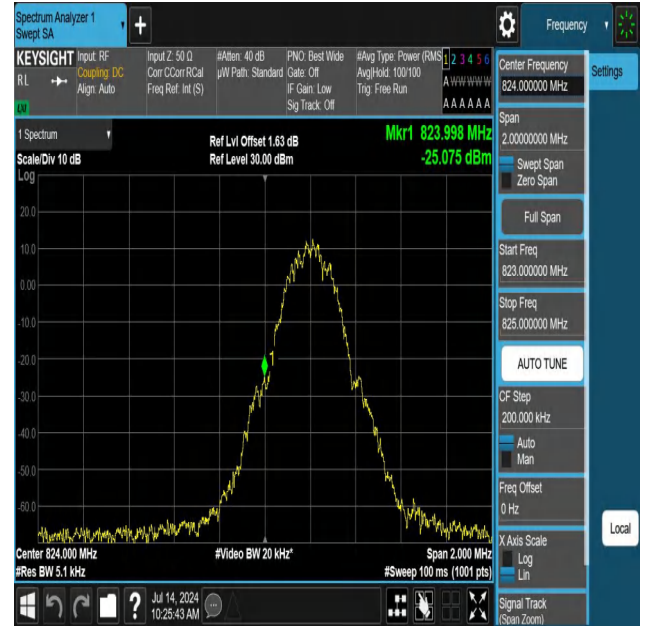
EGPRS850-251-8-PASS

Band Edge

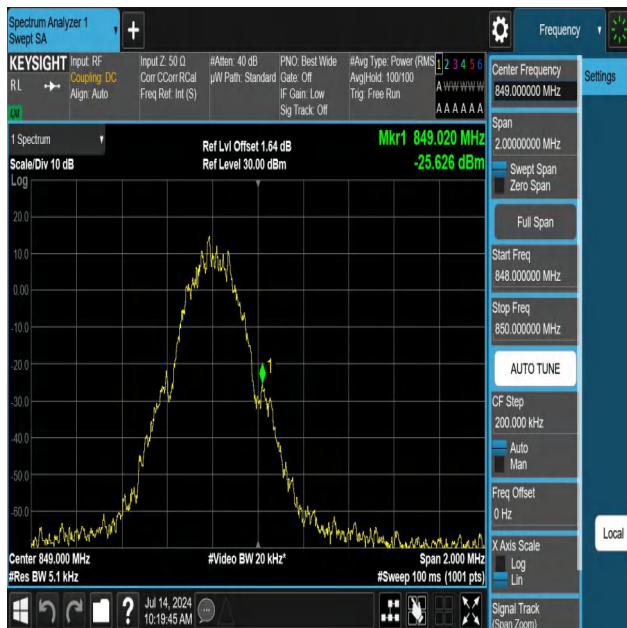
Test Graphs



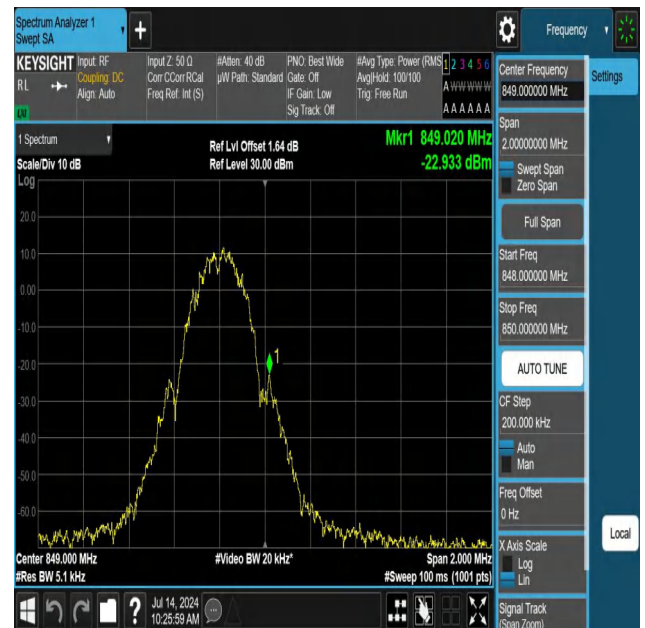
GSM850-128-5-PASS



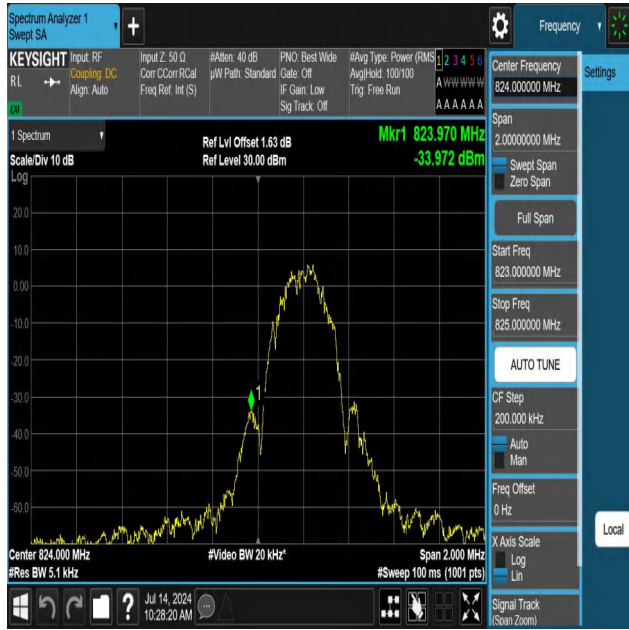
GPRS850-128-5-PASS



GSM850-251-5-PASS



GPRS850-251-5-PASS



EGPRS850-128-8-PASS



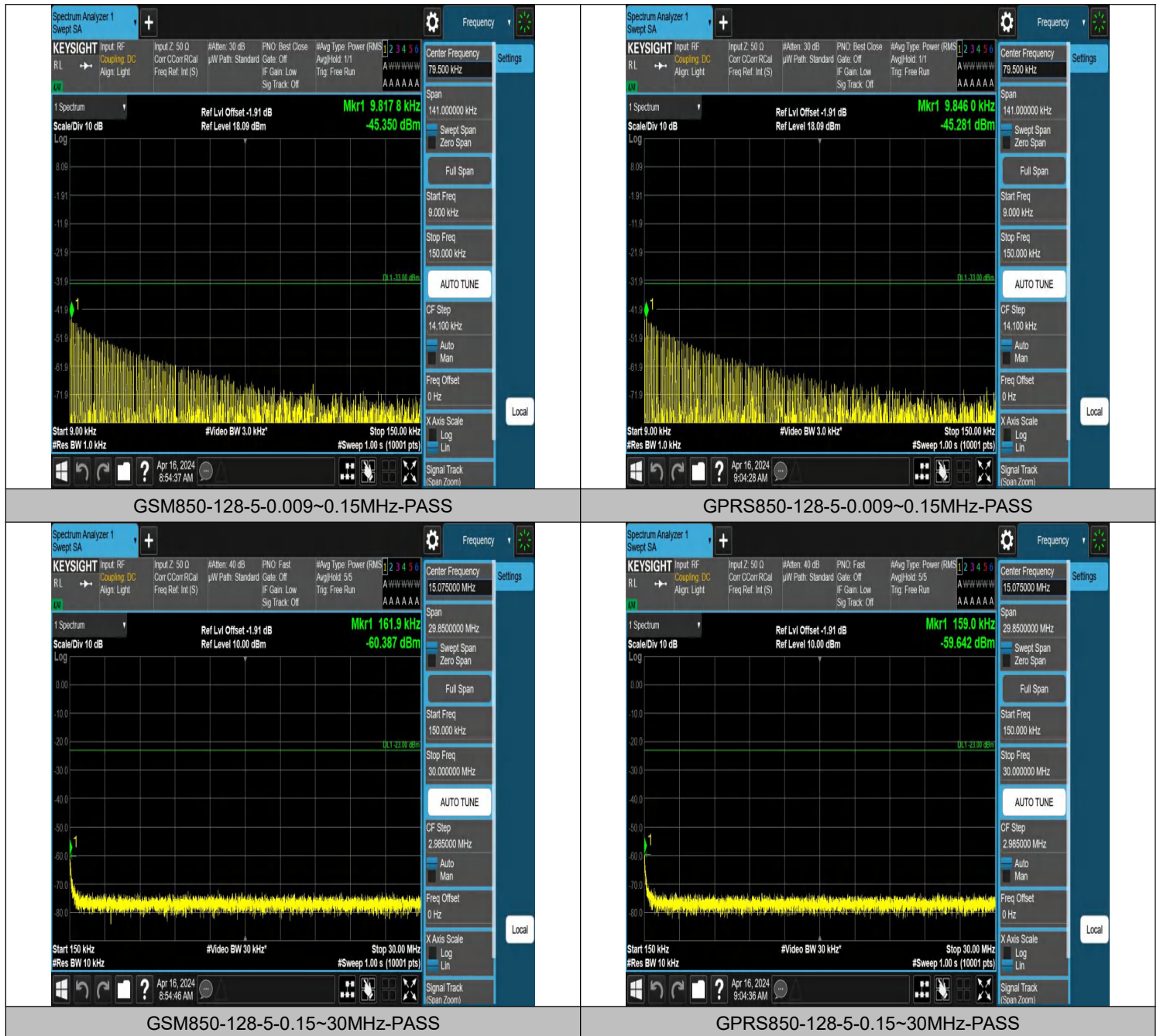
EGPRS850-251-8-PASS

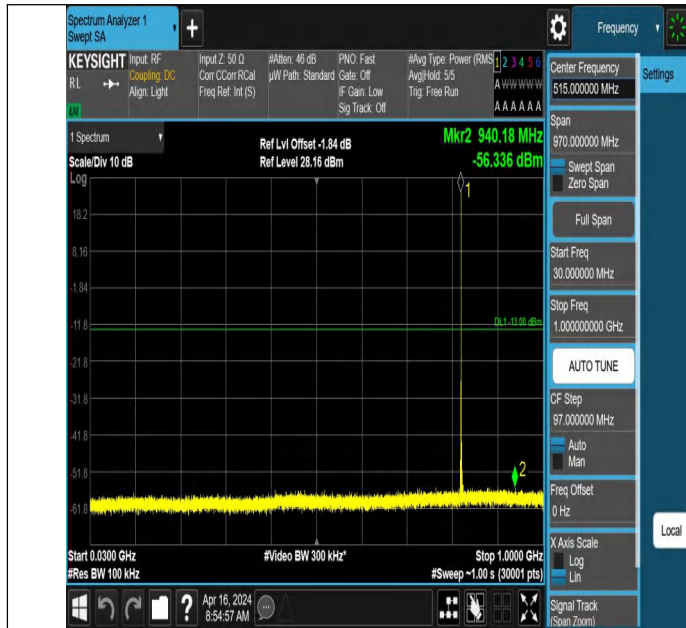
Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range (MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-45.35	-33	PASS
GPRS850	128	0.009~0.15MHz	0.01	-45.28	-33	PASS
GSM850	128	0.15~30MHz	0.16	-60.39	-23	PASS
GPRS850	128	0.15~30MHz	0.16	-59.64	-23	PASS
GSM850	128	30~1000MHz	940.18	-56.34	-13	PASS
GPRS850	128	30~1000MHz	927.86	-56.09	-13	PASS
GSM850	128	1000~10000MHz	1648.6	-40.28	-13	PASS
GPRS850	128	1000~10000MHz	1648.6	-37.02	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-44.9	-33	PASS
GPRS850	190	0.009~0.15MHz	0.01	-45.26	-33	PASS
GSM850	190	0.15~30MHz	0.15	-59.99	-23	PASS
GPRS850	190	0.15~30MHz	0.15	-59.08	-23	PASS
GSM850	190	30~1000MHz	937.95	-56.55	-13	PASS
GPRS850	190	30~1000MHz	949.53	-56.52	-13	PASS
GSM850	190	1000~10000MHz	2509.9	-22.12	-13	PASS
GPRS850	190	1000~10000MHz	2509.6	-24.93	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-44.69	-33	PASS
GPRS850	251	0.009~0.15MHz	0.01	-44.48	-33	PASS
GSM850	251	0.15~30MHz	0.16	-59.7	-23	PASS
GPRS850	251	0.15~30MHz	0.15	-60.83	-23	PASS
GSM850	251	30~1000MHz	997.15	-56.24	-13	PASS
GPRS850	251	30~1000MHz	978.05	-55.8	-13	PASS
GSM850	251	1000~10000MHz	2546.5	-24.36	-13	PASS
GPRS850	251	1000~10000MHz	2546.5	-23.76	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.03	-45.35	-33	PASS
EGPRS850	128	0.15~30MHz	0.18	-56.15	-23	PASS
EGPRS850	128	30~1000MHz	926.38	-56.81	-13	PASS
EGPRS850	128	1000~10000MHz	4030.9	-55.54	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.02	-46.38	-33	PASS
EGPRS850	190	0.15~30MHz	0.16	-55.13	-23	PASS
EGPRS850	190	30~1000MHz	954.9	-56.64	-13	PASS
EGPRS850	190	1000~10000MHz	4062.1	-55.41	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-44.44	-33	PASS
EGPRS850	251	0.15~30MHz	0.16	-52.31	-23	PASS
EGPRS850	251	30~1000MHz	995.21	-56.72	-13	PASS
EGPRS850	251	1000~10000MHz	2546.5	-39.26	-13	PASS

Test Graphs

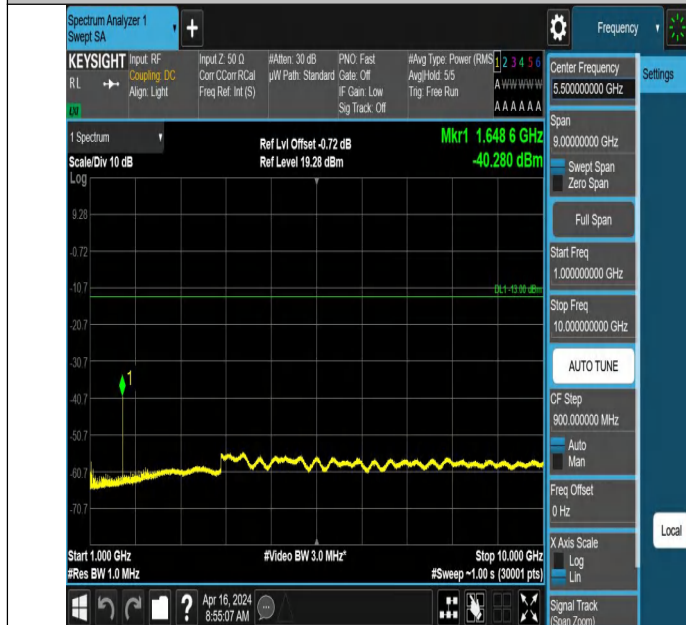




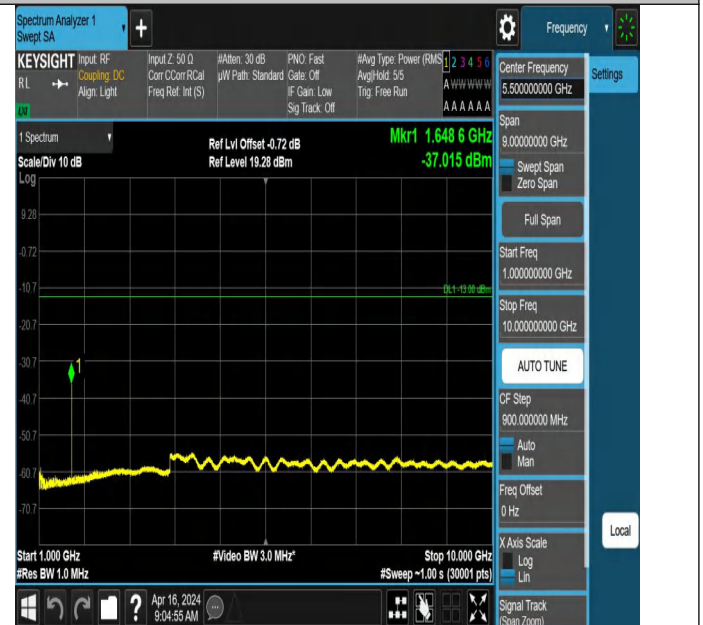
GSM850-128-5-30~1000MHz-PASS



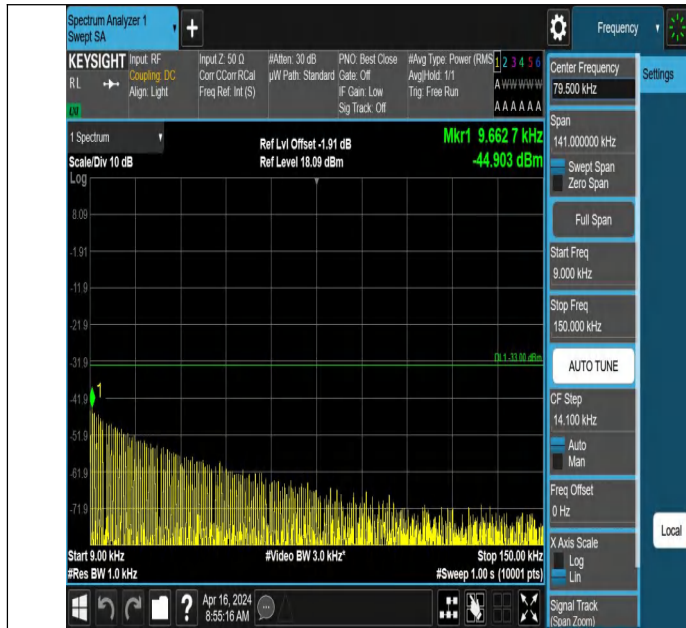
GPRS850-128-5-30~1000MHz-PASS



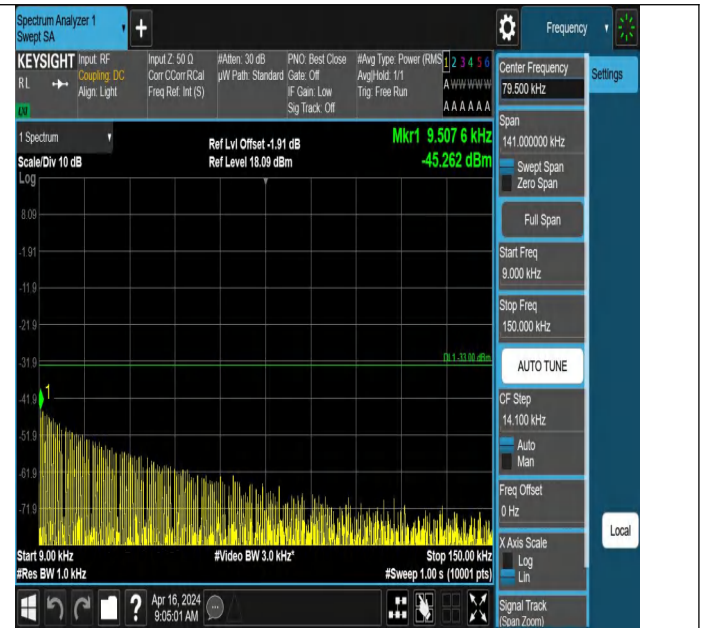
GSM850-128-5-1000~10000MHz-PASS



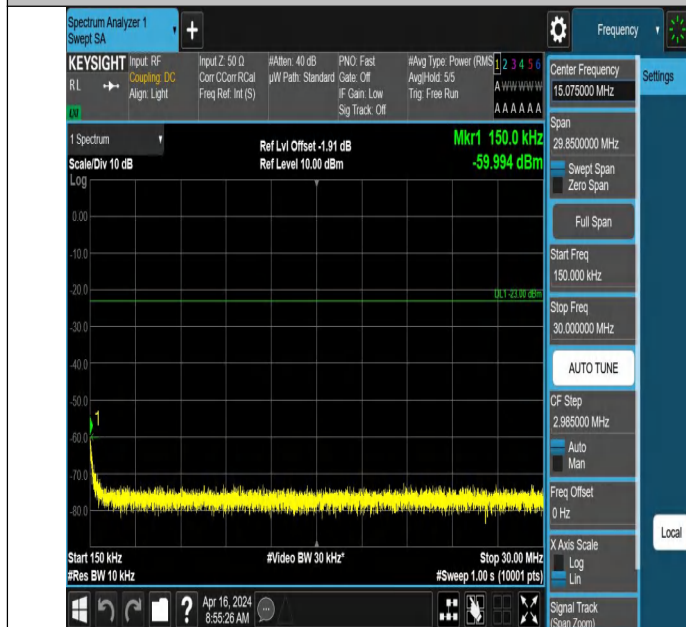
GPRS850-128-5-1000~10000MHz-PASS



GSM850-190-5-0.009~0.15MHz-PASS



GPRS850-190-5-0.009~0.15MHz-PASS



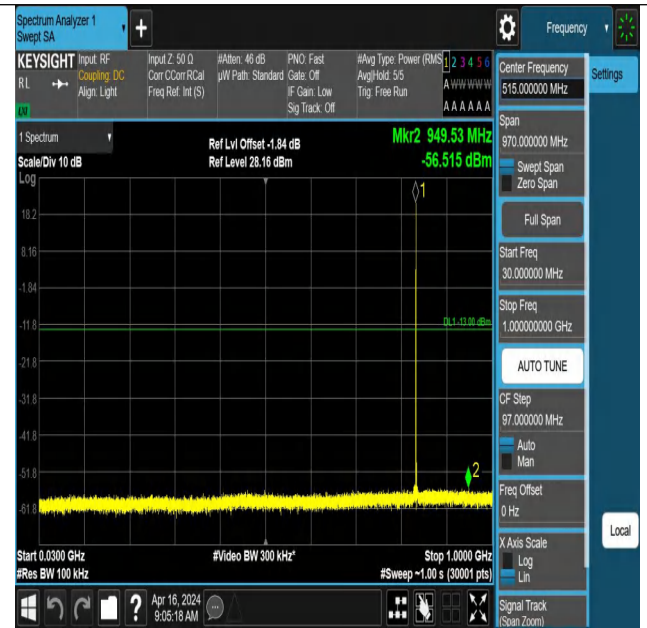
GSM850-190-5-0.15~30MHz-PASS



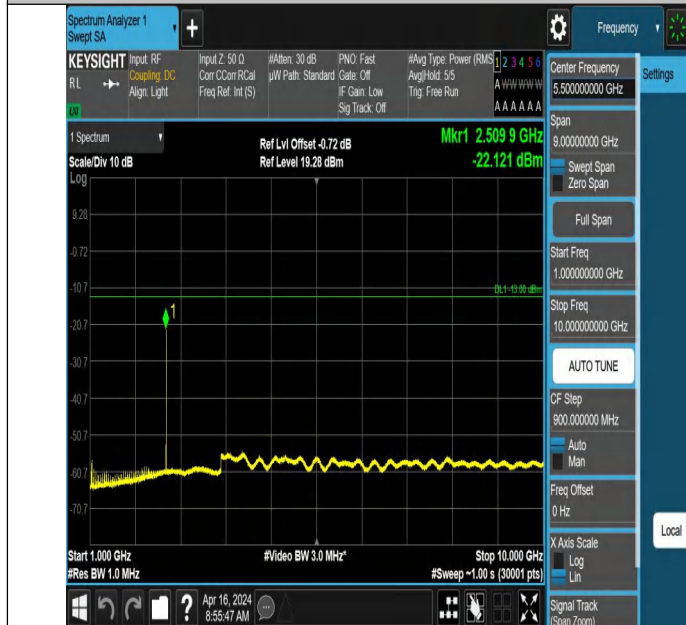
GPRS850-190-5-0.15~30MHz-PASS



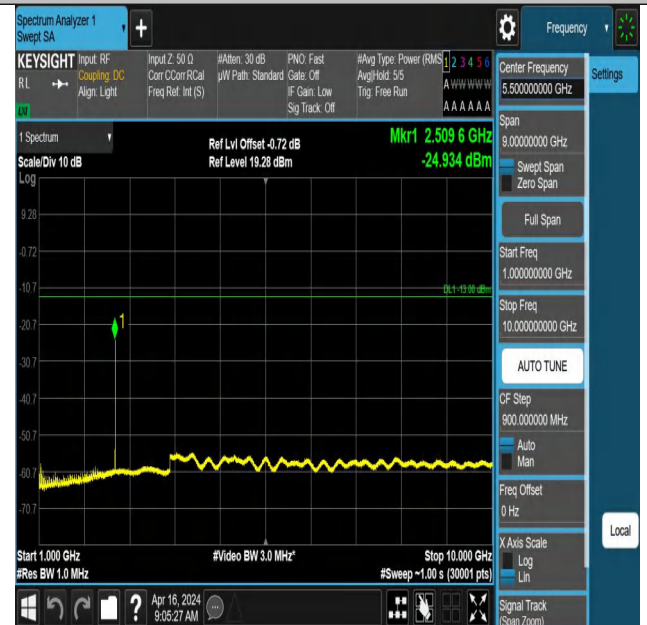
GSM850-190-5-30~1000MHz-PASS



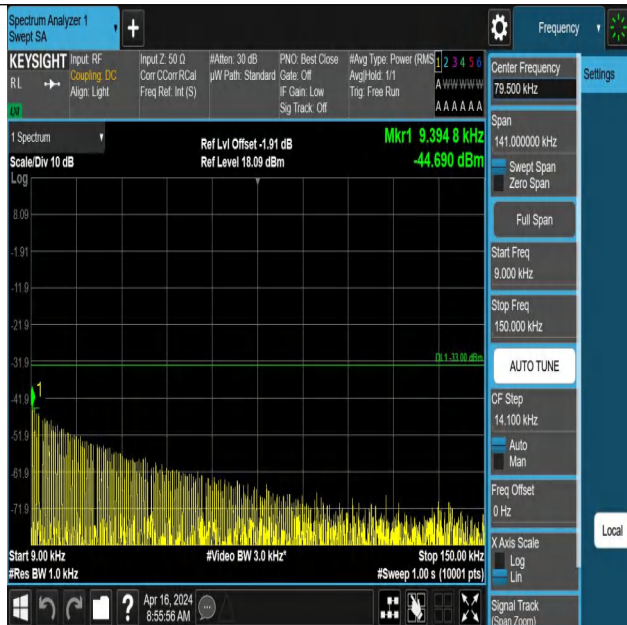
GPRS850-190-5-30~1000MHz-PASS



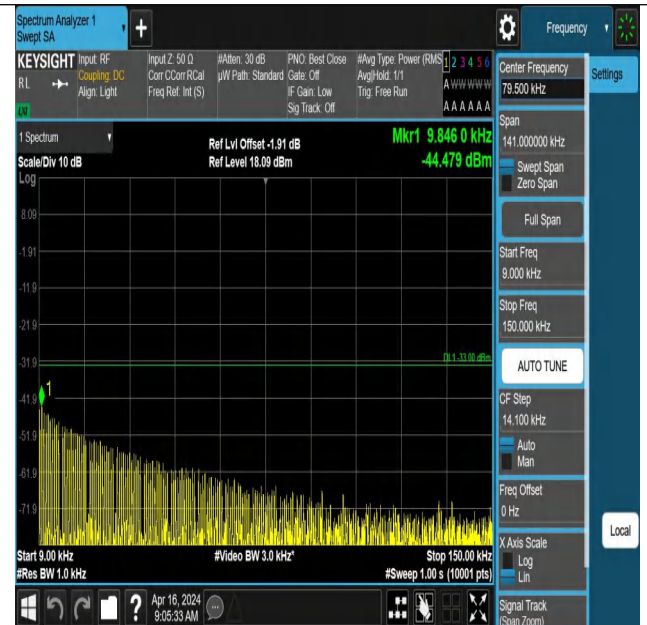
GSM850-190-5-1000~10000MHz-PASS



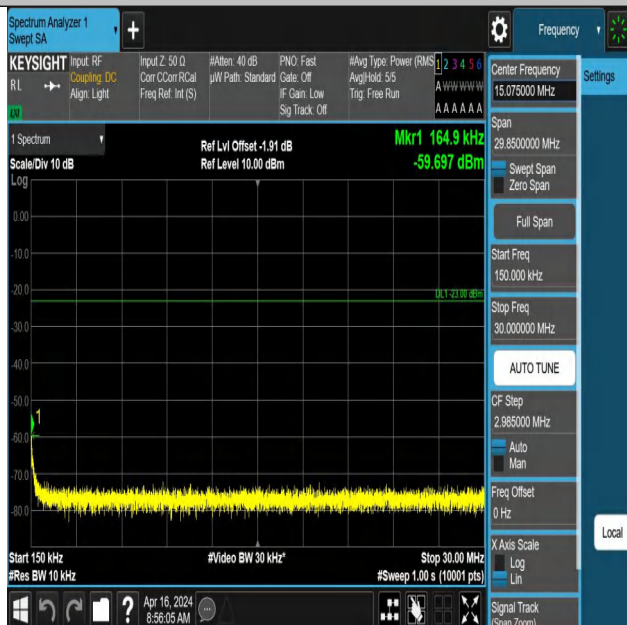
GPRS850-190-5-1000~10000MHz-PASS



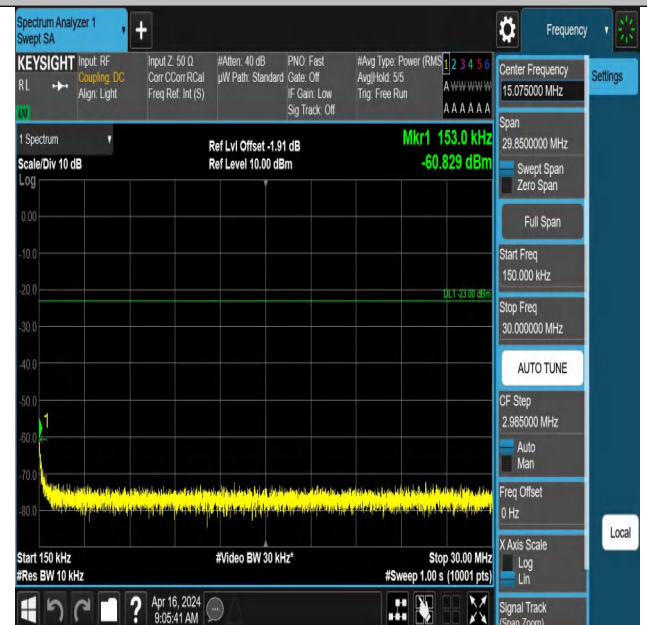
GSM850-251-5-0.009~0.15MHz-PASS



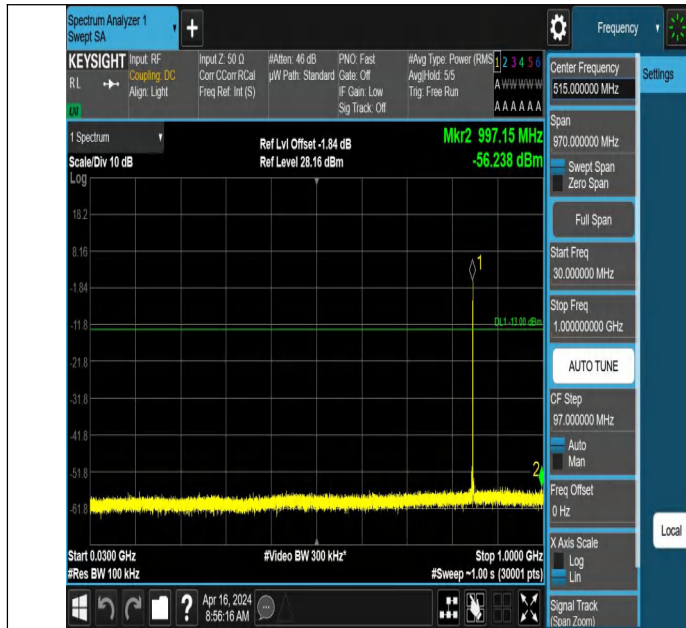
GPRS850-251-5-0.009~0.15MHz-PASS



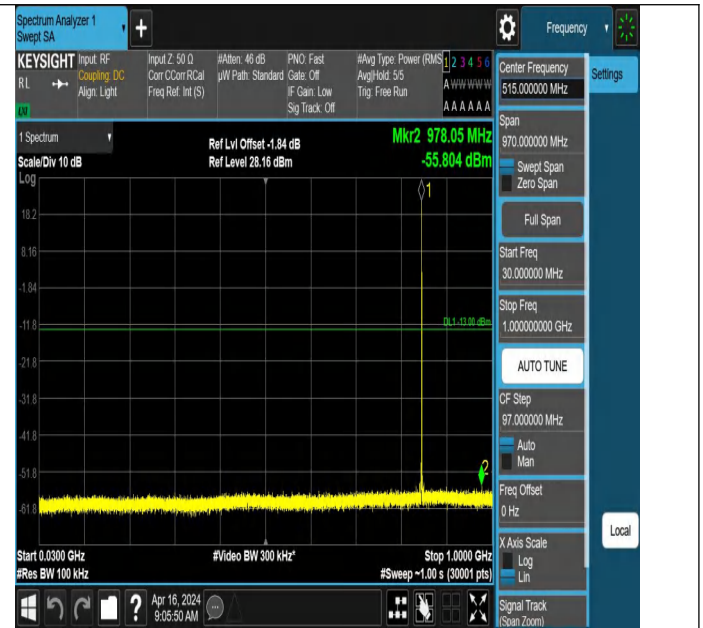
GSM850-251-5-0.15~30MHz-PASS



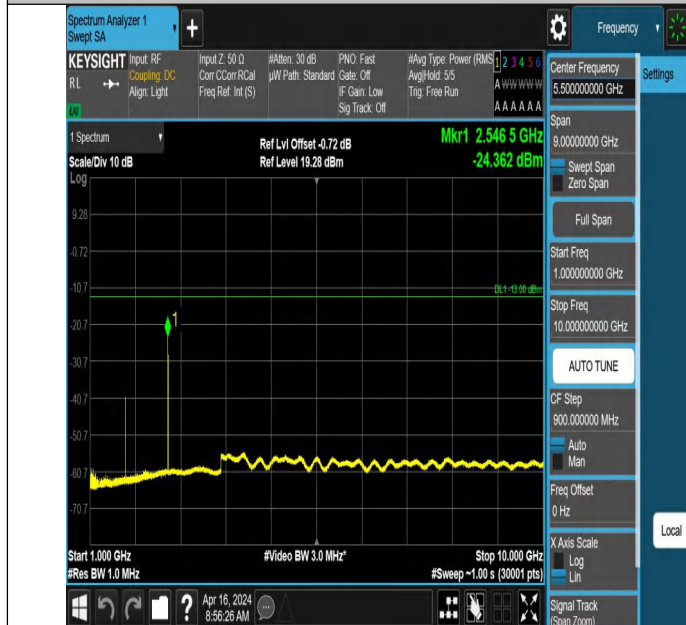
GPRS850-251-5-0.15~30MHz-PASS



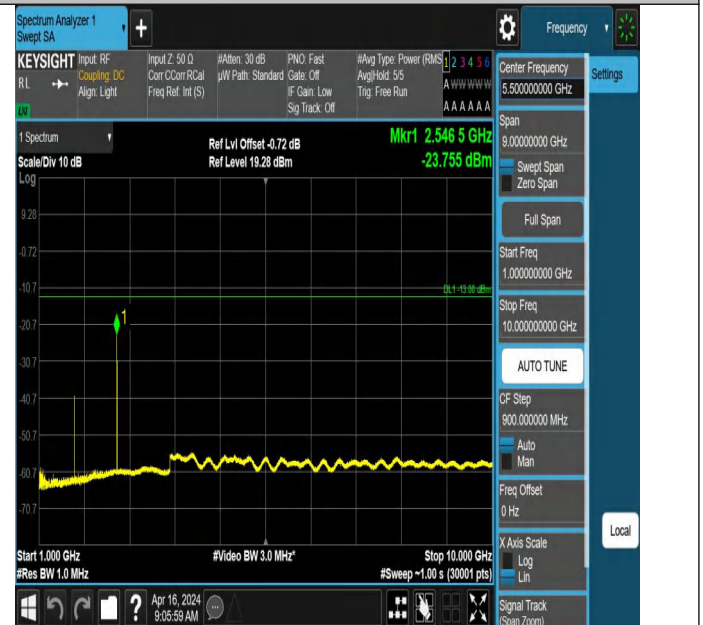
GSM850-251-5-30~1000MHz-PASS



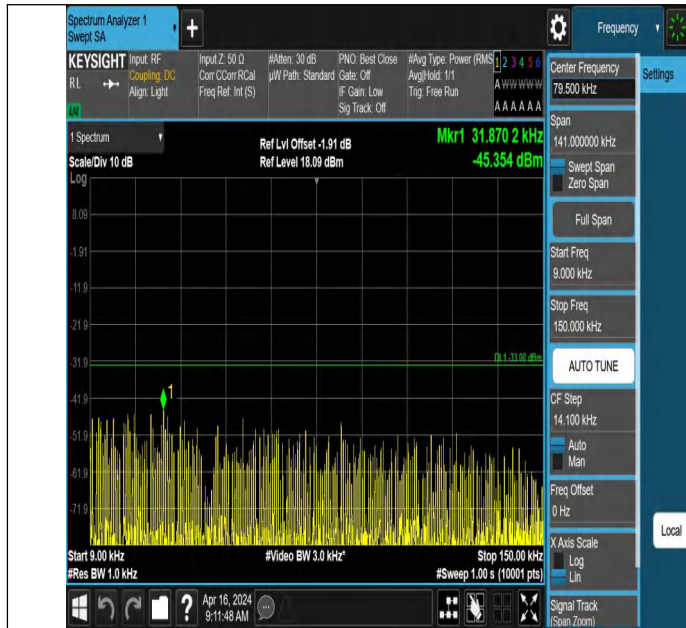
GPRS850-251-5-30~1000MHz-PASS



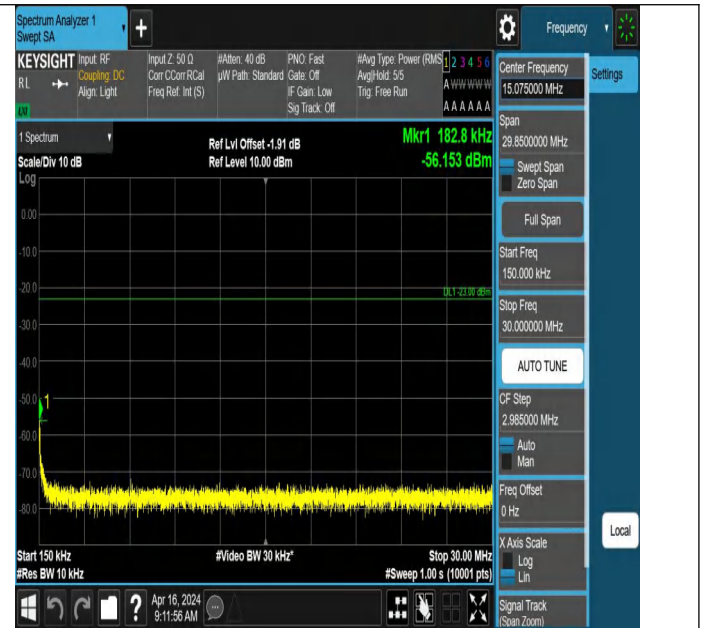
GSM850-251-5-1000~10000MHz-PASS



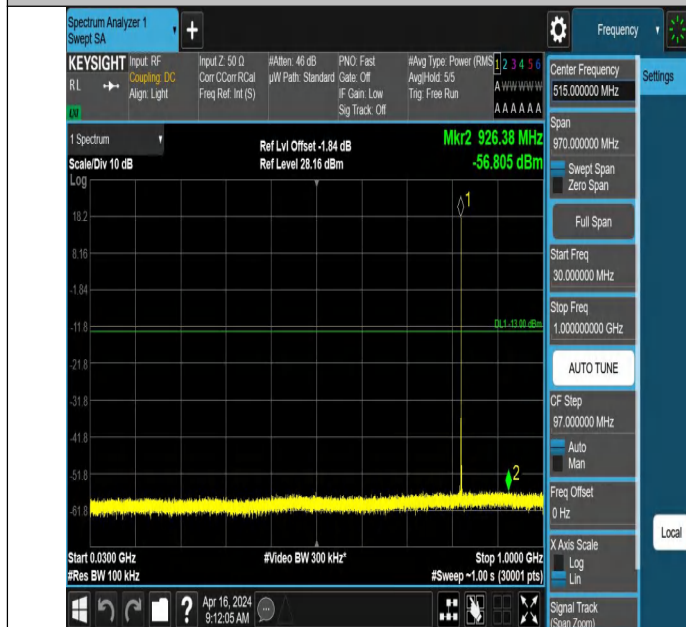
GPRS850-251-5-1000~10000MHz-PASS



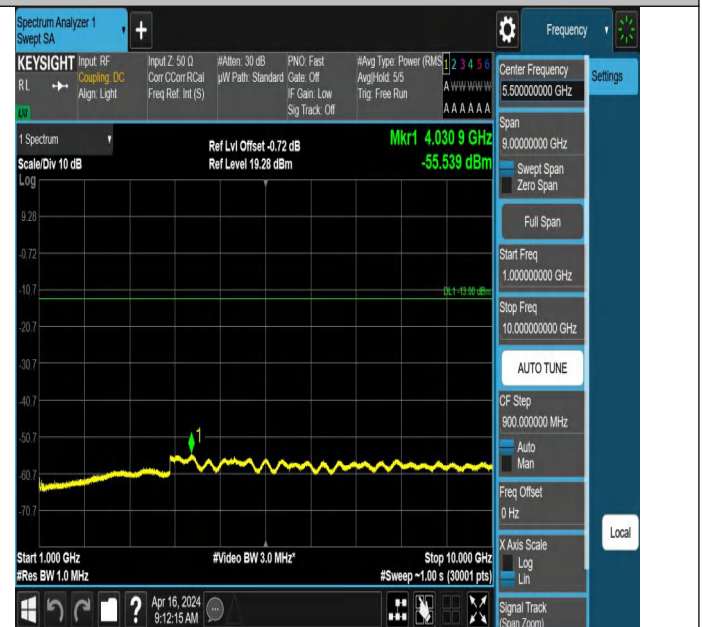
EGPRS850-128-8-0.009~0.15MHz-PASS



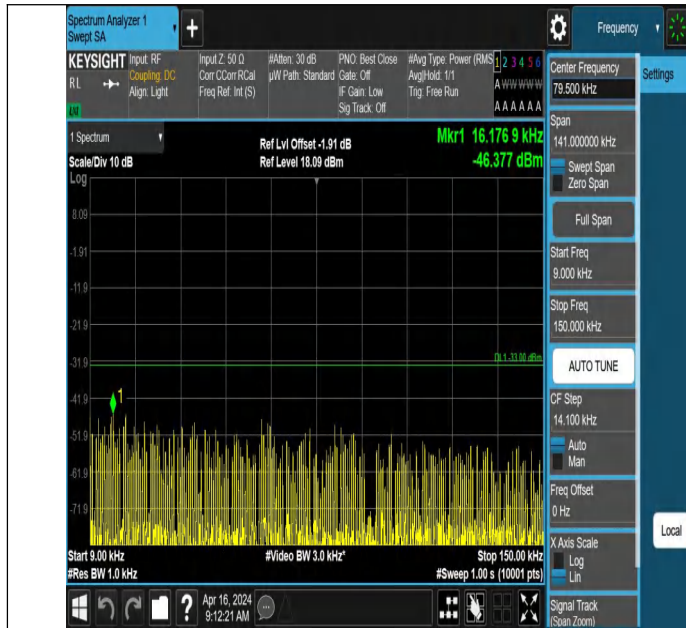
EGPRS850-128-8-0.15~30MHz-PASS



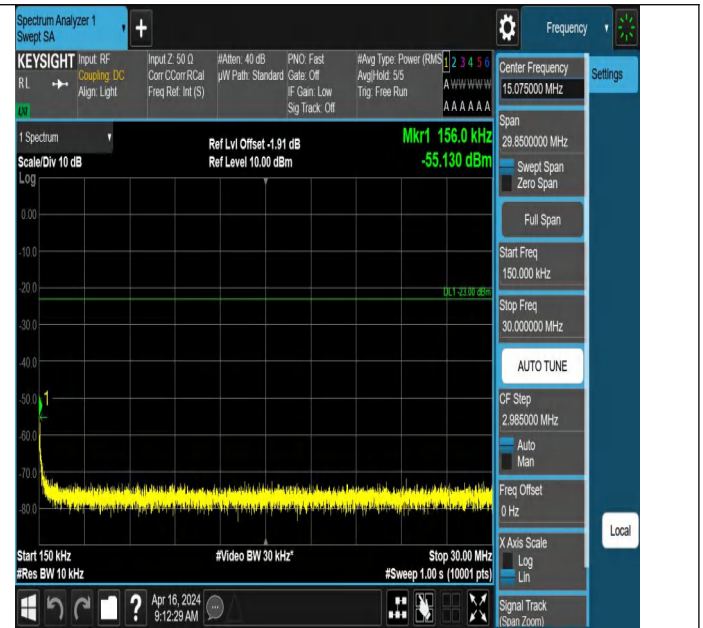
EGPRS850-128-8-30~1000MHz-PASS



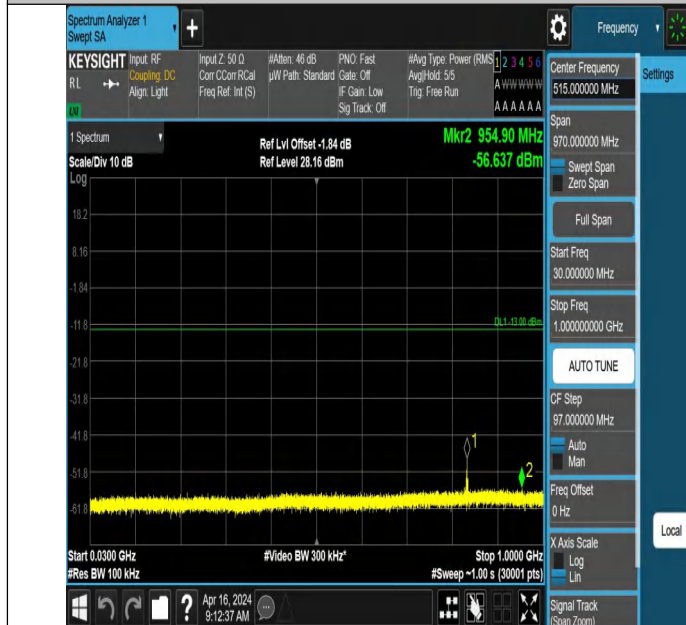
EGPRS850-128-8-1000~10000MHz-PASS



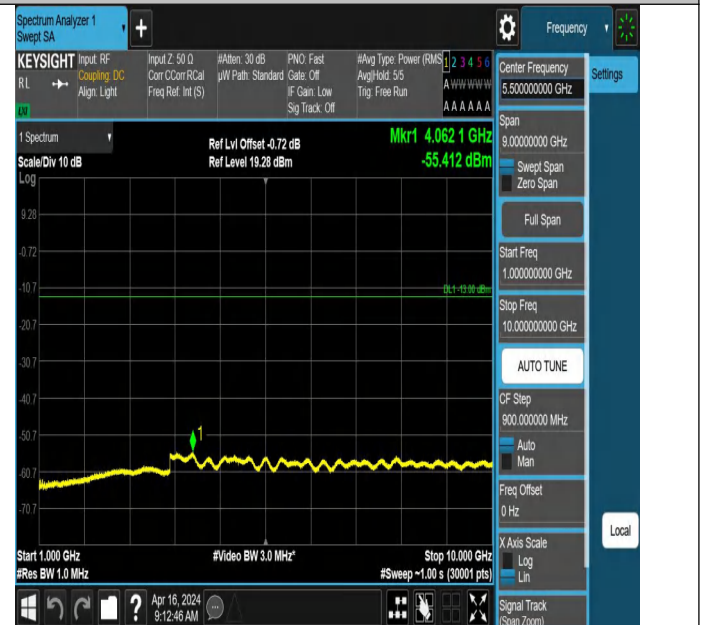
EGPRS850-190-8-0.009~0.15MHz-PASS



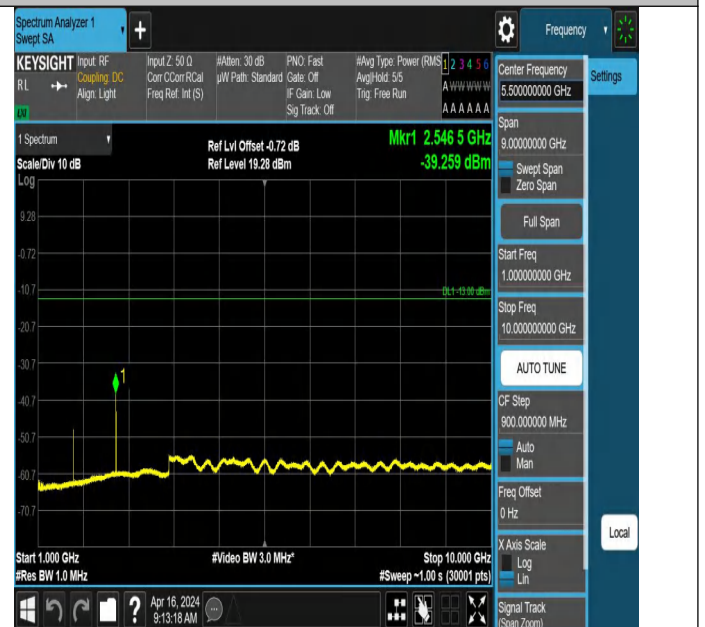
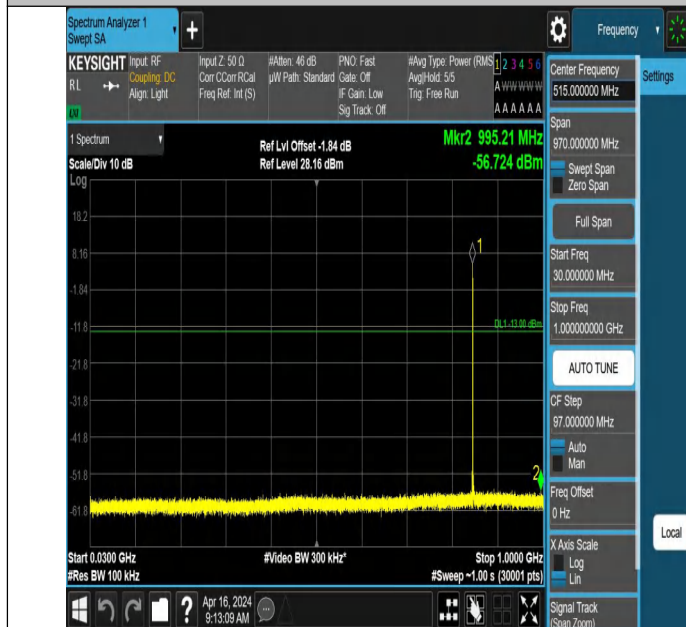
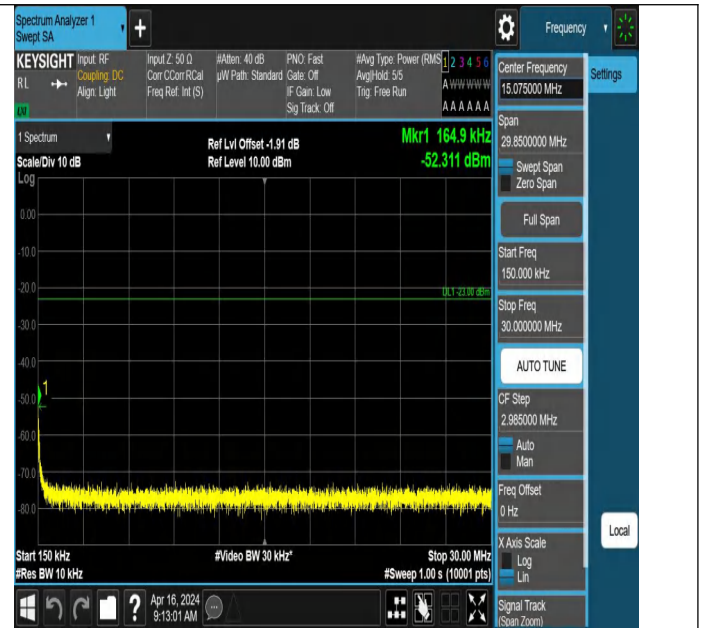
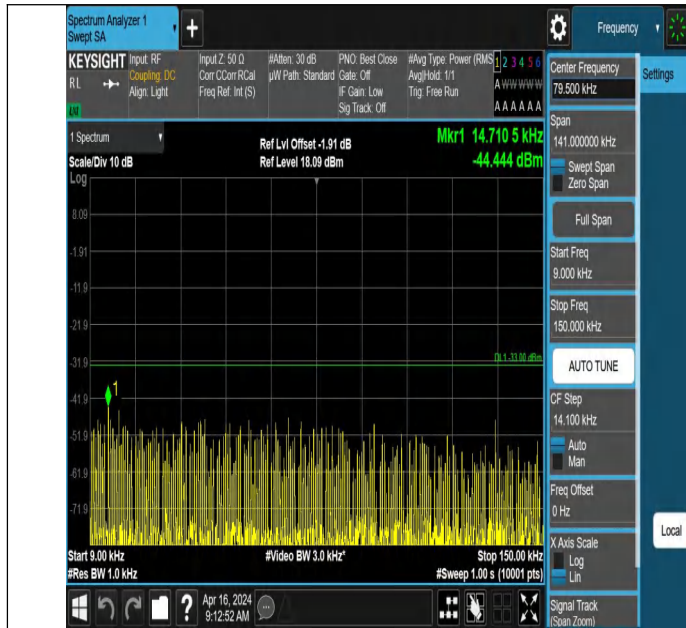
EGPRS850-190-8-0.15~30MHz-PASS



EGPRS850-190-8-30~1000MHz-PASS



EGPRS850-190-8-1000~10000MHz-PASS



Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	24.94	0.030260	±2.5	PASS
GSM850	128	VL	NT	22.99	0.027894	±2.5	PASS
GSM850	128	VH	NT	27.47	0.033329	±2.5	PASS
GPRS850	128	VN	NT	34.68	0.042077	±2.5	PASS
GPRS850	128	VL	NT	33.73	0.040925	±2.5	PASS
GPRS850	128	VH	NT	33.47	0.040609	±2.5	PASS
GSM850	190	VN	NT	22.93	0.027409	±2.5	PASS
GSM850	190	VL	NT	19.42	0.023213	±2.5	PASS
GSM850	190	VH	NT	25.66	0.030672	±2.5	PASS
GPRS850	190	VN	NT	27.83	0.033266	±2.5	PASS
GPRS850	190	VL	NT	27.38	0.032728	±2.5	PASS
GPRS850	190	VH	NT	27.94	0.033397	±2.5	PASS
GSM850	251	VN	NT	27.73	0.032670	±2.5	PASS
GSM850	251	VL	NT	27.22	0.032069	±2.5	PASS
GSM850	251	VH	NT	24.63	0.029017	±2.5	PASS
GPRS850	251	VN	NT	27.30	0.032163	±2.5	PASS
GPRS850	251	VL	NT	35.55	0.041883	±2.5	PASS
GPRS850	251	VH	NT	25.60	0.030160	±2.5	PASS
EGPRS850	128	VN	NT	26.09	0.031655	±2.5	PASS
EGPRS850	128	VL	NT	29.37	0.035635	±2.5	PASS
EGPRS850	128	VH	NT	23.58	0.028610	±2.5	PASS
EGPRS850	190	VN	NT	25.07	0.029967	±2.5	PASS
EGPRS850	190	VL	NT	28.70	0.034306	±2.5	PASS
EGPRS850	190	VH	NT	20.78	0.024839	±2.5	PASS
EGPRS850	251	VN	NT	23.72	0.027945	±2.5	PASS
EGPRS850	251	VL	NT	26.93	0.031727	±2.5	PASS
EGPRS850	251	VH	NT	29.07	0.034248	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	23.05	0.027967	±2.5	PASS
GSM850	128	NV	-20	26.29	0.031898	±2.5	PASS
GSM850	128	NV	-10	22.02	0.026717	±2.5	PASS
GSM850	128	NV	0	26.60	0.032274	±2.5	PASS
GSM850	128	NV	10	24.48	0.029702	±2.5	PASS

GSM850	128	NV	20	22.03	0.026729	±2.5	PASS
GSM850	128	NV	30	19.79	0.024011	±2.5	PASS
GSM850	128	NV	40	26.59	0.032262	±2.5	PASS
GSM850	128	NV	50	16.74	0.020311	±2.5	PASS
GPRS850	128	NV	-30	33.20	0.040281	±2.5	PASS
GPRS850	128	NV	-20	33.75	0.040949	±2.5	PASS
GPRS850	128	NV	-10	35.27	0.042793	±2.5	PASS
GPRS850	128	NV	0	36.32	0.044067	±2.5	PASS
GPRS850	128	NV	10	27.58	0.033463	±2.5	PASS
GPRS850	128	NV	20	27.78	0.033705	±2.5	PASS
GPRS850	128	NV	30	28.62	0.034725	±2.5	PASS
GPRS850	128	NV	40	29.53	0.035829	±2.5	PASS
GPRS850	128	NV	50	29.94	0.036326	±2.5	PASS
GSM850	190	NV	-30	21.85	0.026118	±2.5	PASS
GSM850	190	NV	-20	18.66	0.022305	±2.5	PASS
GSM850	190	NV	-10	24.49	0.029273	±2.5	PASS
GSM850	190	NV	0	20.87	0.024946	±2.5	PASS
GSM850	190	NV	10	17.52	0.020942	±2.5	PASS
GSM850	190	NV	20	14.08	0.016830	±2.5	PASS
GSM850	190	NV	30	22.10	0.026416	±2.5	PASS
GSM850	190	NV	40	17.40	0.020798	±2.5	PASS
GSM850	190	NV	50	23.94	0.028616	±2.5	PASS
GPRS850	190	NV	-30	27.25	0.032572	±2.5	PASS
GPRS850	190	NV	-20	26.28	0.031413	±2.5	PASS
GPRS850	190	NV	-10	25.85	0.030899	±2.5	PASS
GPRS850	190	NV	0	25.06	0.029955	±2.5	PASS
GPRS850	190	NV	10	24.28	0.029022	±2.5	PASS
GPRS850	190	NV	20	24.34	0.029094	±2.5	PASS
GPRS850	190	NV	30	24.14	0.028855	±2.5	PASS
GPRS850	190	NV	40	24.31	0.029058	±2.5	PASS
GPRS850	190	NV	50	24.65	0.029464	±2.5	PASS
GSM850	251	NV	-30	23.29	0.027439	±2.5	PASS
GSM850	251	NV	-20	25.10	0.029571	±2.5	PASS
GSM850	251	NV	-10	27.43	0.032316	±2.5	PASS
GSM850	251	NV	0	24.92	0.029359	±2.5	PASS
GSM850	251	NV	10	22.31	0.026284	±2.5	PASS
GSM850	251	NV	20	25.13	0.029607	±2.5	PASS
GSM850	251	NV	30	25.89	0.030502	±2.5	PASS
GSM850	251	NV	40	22.98	0.027074	±2.5	PASS
GSM850	251	NV	50	21.64	0.025495	±2.5	PASS
GPRS850	251	NV	-30	32.90	0.038761	±2.5	PASS

GPRS850	251	NV	-20	31.70	0.037347	±2.5	PASS
GPRS850	251	NV	-10	32.28	0.038030	±2.5	PASS
GPRS850	251	NV	0	31.66	0.037300	±2.5	PASS
GPRS850	251	NV	10	31.87	0.037547	±2.5	PASS
GPRS850	251	NV	20	31.53	0.037147	±2.5	PASS
GPRS850	251	NV	30	31.50	0.037111	±2.5	PASS
GPRS850	251	NV	40	31.06	0.036593	±2.5	PASS
GPRS850	251	NV	50	30.18	0.035556	±2.5	PASS
EGPRS850	128	NV	-30	26.42	0.032055	±2.5	PASS
EGPRS850	128	NV	-20	30.00	0.036399	±2.5	PASS
EGPRS850	128	NV	-10	24.48	0.029702	±2.5	PASS
EGPRS850	128	NV	0	27.81	0.033742	±2.5	PASS
EGPRS850	128	NV	10	32.14	0.038995	±2.5	PASS
EGPRS850	128	NV	20	25.51	0.030951	±2.5	PASS
EGPRS850	128	NV	30	30.65	0.037188	±2.5	PASS
EGPRS850	128	NV	40	24.61	0.029859	±2.5	PASS
EGPRS850	128	NV	50	28.85	0.035004	±2.5	PASS
EGPRS850	190	NV	-30	25.19	0.030110	±2.5	PASS
EGPRS850	190	NV	-20	27.18	0.032489	±2.5	PASS
EGPRS850	190	NV	-10	19.52	0.023333	±2.5	PASS
EGPRS850	190	NV	0	21.81	0.026070	±2.5	PASS
EGPRS850	190	NV	10	24.01	0.028699	±2.5	PASS
EGPRS850	190	NV	20	27.27	0.032596	±2.5	PASS
EGPRS850	190	NV	30	19.51	0.023321	±2.5	PASS
EGPRS850	190	NV	40	22.24	0.026584	±2.5	PASS
EGPRS850	190	NV	50	24.18	0.028903	±2.5	PASS
EGPRS850	251	NV	-30	30.88	0.036381	±2.5	PASS
EGPRS850	251	NV	-20	23.88	0.028134	±2.5	PASS
EGPRS850	251	NV	-10	26.42	0.031126	±2.5	PASS
EGPRS850	251	NV	0	28.51	0.033589	±2.5	PASS
EGPRS850	251	NV	10	30.79	0.036275	±2.5	PASS
EGPRS850	251	NV	20	23.09	0.027203	±2.5	PASS
EGPRS850	251	NV	30	25.32	0.029830	±2.5	PASS
EGPRS850	251	NV	40	28.39	0.033447	±2.5	PASS
EGPRS850	251	NV	50	31.06	0.036593	±2.5	PASS