

GSM850&GSM1900 Test Data

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM850	128	5	32.53	38.45	PASS
GSM850	190	5	32.60	38.45	PASS
GSM850	251	5	32.43	38.45	PASS
GSM1900	512	0	29.87	33.00	PASS
GSM1900	661	0	29.78	33.00	PASS
GSM1900	810	0	29.72	33.00	PASS

Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	5	1	32.49	38.45	PASS
GPRS850	128	5	2	32.52	38.45	PASS
GPRS850	128	5	3	31.37	38.45	PASS
GPRS850	128	5	4	29.49	38.45	PASS
GPRS850	190	5	1	32.59	38.45	PASS
GPRS850	190	5	2	32.61	38.45	PASS
GPRS850	190	5	3	31.45	38.45	PASS
GPRS850	190	5	4	29.60	38.45	PASS
GPRS850	251	5	1	32.46	38.45	PASS
GPRS850	251	5	2	32.44	38.45	PASS
GPRS850	251	5	3	31.29	38.45	PASS
GPRS850	251	5	4	29.38	38.45	PASS
GPRS1900	512	0	1	29.61	33.00	PASS
GPRS1900	512	0	2	29.60	33.00	PASS
GPRS1900	512	0	3	28.18	33.00	PASS
GPRS1900	512	0	4	26.01	33.00	PASS
GPRS1900	661	0	1	29.61	33.00	PASS
GPRS1900	661	0	2	29.59	33.00	PASS
GPRS1900	661	0	3	28.08	33.00	PASS
GPRS1900	661	0	4	25.87	33.00	PASS
GPRS1900	810	0	1	29.60	33.00	PASS

GPRS1900	810	0	2	29.54	33.00	PASS
GPRS1900	810	0	3	28.18	33.00	PASS
GPRS1900	810	0	4	25.99	33.00	PASS

Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	8	1	27.48	38.45	PASS
EGPRS850	128	8	2	25.99	38.45	PASS
EGPRS850	128	8	3	23.77	38.45	PASS
EGPRS850	128	8	4	21.40	38.45	PASS
EGPRS850	190	8	1	27.62	38.45	PASS
EGPRS850	190	8	2	25.84	38.45	PASS
EGPRS850	190	8	3	23.57	38.45	PASS
EGPRS850	190	8	4	21.55	38.45	PASS
EGPRS850	251	8	1	27.34	38.45	PASS
EGPRS850	251	8	2	25.49	38.45	PASS
EGPRS850	251	8	3	23.19	38.45	PASS
EGPRS850	251	8	4	21.15	38.45	PASS
EGPRS1900	512	2	1	25.34	33.00	PASS
EGPRS1900	512	2	2	23.76	33.00	PASS
EGPRS1900	512	2	3	21.94	33.00	PASS
EGPRS1900	512	2	4	20.03	33.00	PASS
EGPRS1900	661	2	1	25.31	33.00	PASS
EGPRS1900	661	2	2	23.92	33.00	PASS
EGPRS1900	661	2	3	21.86	33.00	PASS
EGPRS1900	661	2	4	19.94	33.00	PASS
EGPRS1900	810	2	1	25.25	33.00	PASS
EGPRS1900	810	2	2	23.55	33.00	PASS

EGPRS1900	810	2	3	21.67	33.00	PASS
EGPRS1900	810	2	4	19.73	33.00	PASS



FCC PART 22/24/27/90/96

Page 3 of 66

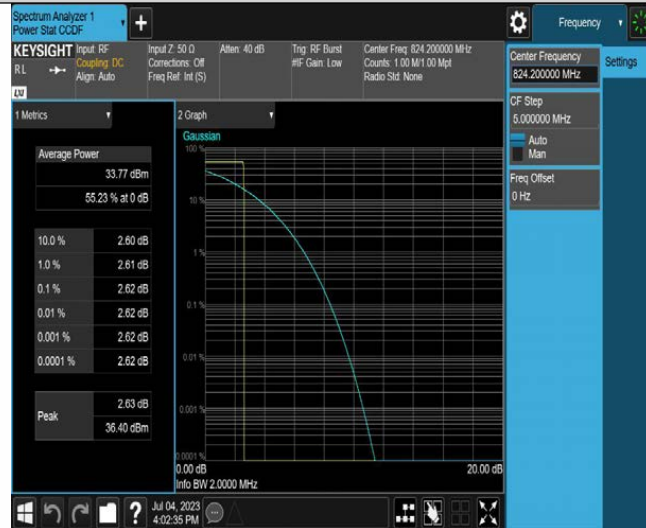
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

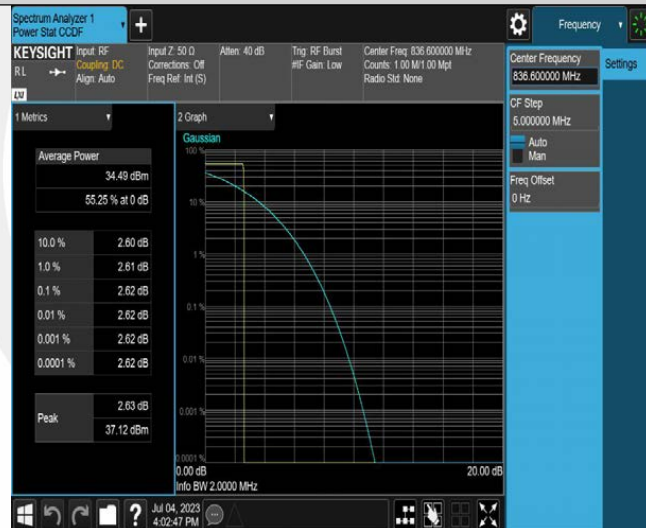
Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	128	5	2.62	13	PASS
GSM850	190	5	2.62	13	PASS
GSM850	251	5	2.62	13	PASS
GPRS850	128	5	2.62	13	PASS
GPRS850	190	5	2.62	13	PASS
GPRS850	251	5	2.62	13	PASS
EGPRS850	128	8	5.56	13	PASS
EGPRS850	190	8	5.6	13	PASS
EGPRS850	251	8	5.67	13	PASS
GSM1900	512	0	2.61	13	PASS
GSM1900	661	0	2.61	13	PASS
GSM1900	810	0	2.61	13	PASS
GPRS1900	512	0	2.61	13	PASS
GPRS1900	661	0	2.61	13	PASS
GPRS1900	810	0	2.61	13	PASS
EGPRS1900	512	2	5.17	13	PASS
EGPRS1900	661	2	5.31	13	PASS
EGPRS1900	810	2	5.39	13	PASS

Test Graphs

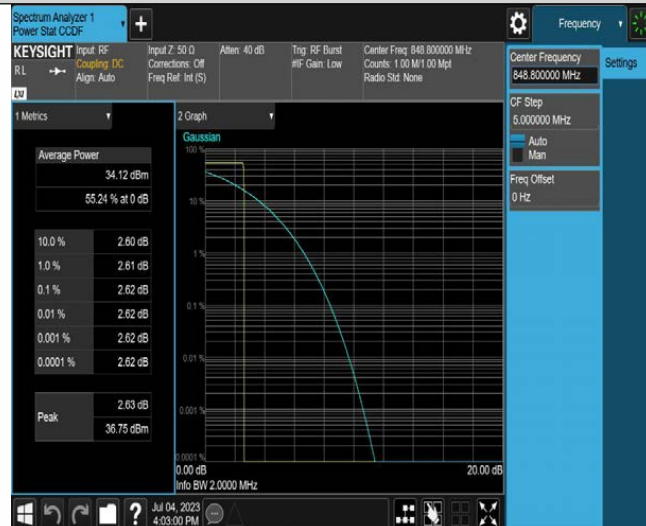
GSM850-128



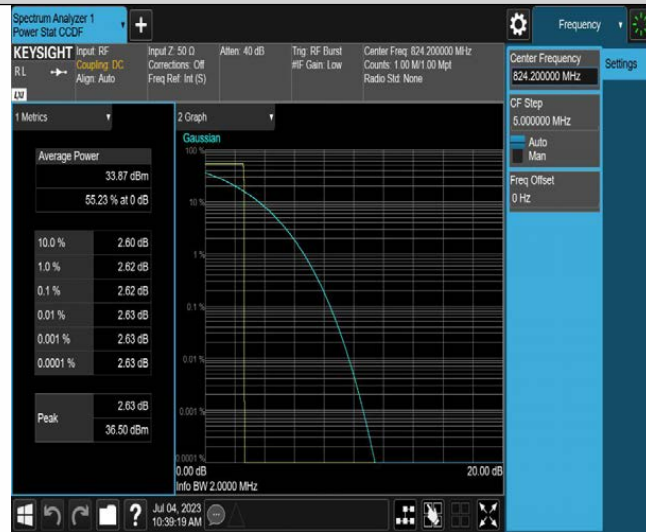
GSM850-190



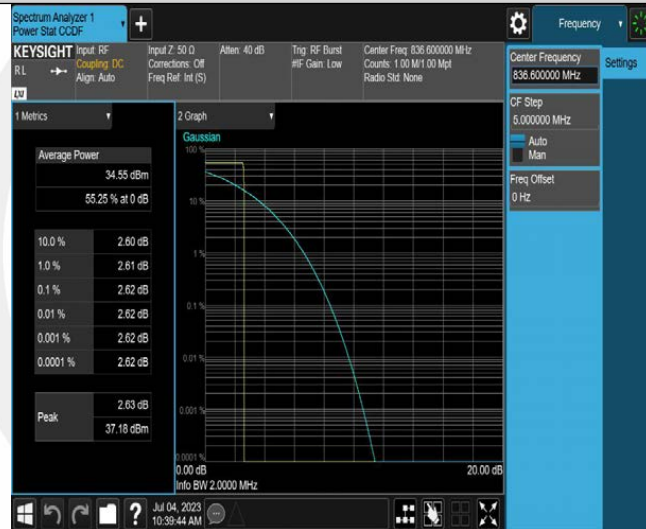
GSM850-251



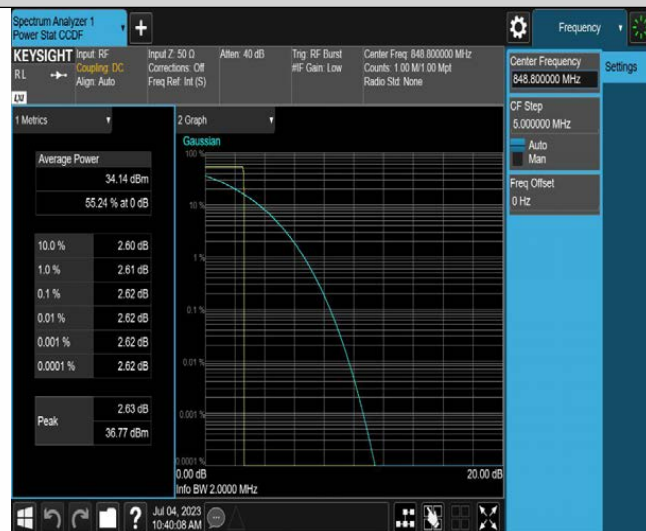
GPRS850-128



GPRS850-190



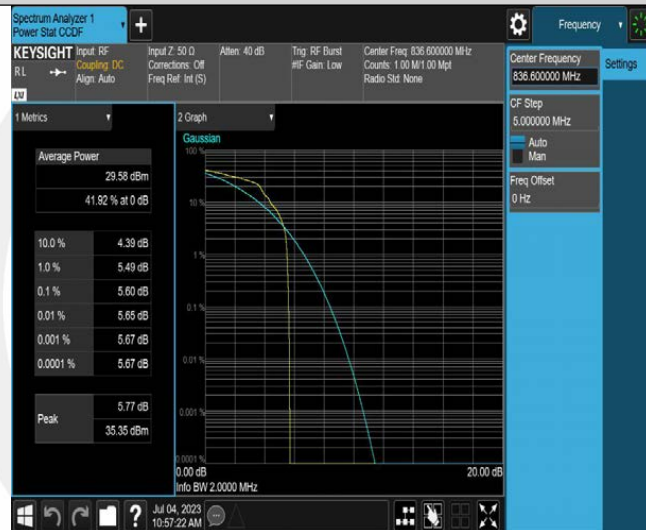
GPRS850-251



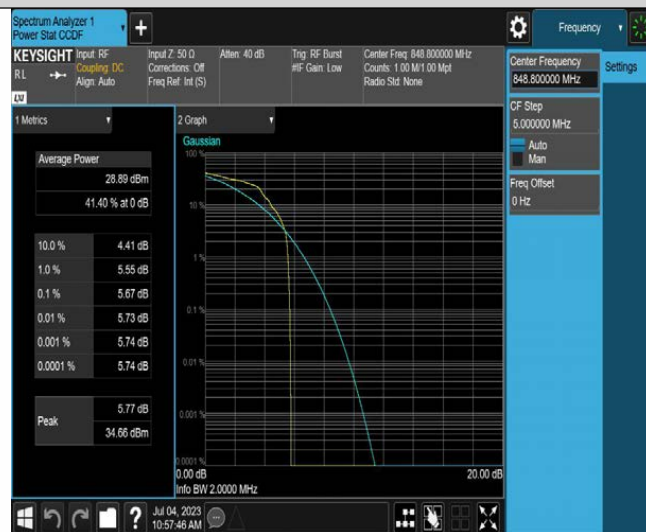
EGPRS850-128



EGPRS850-190



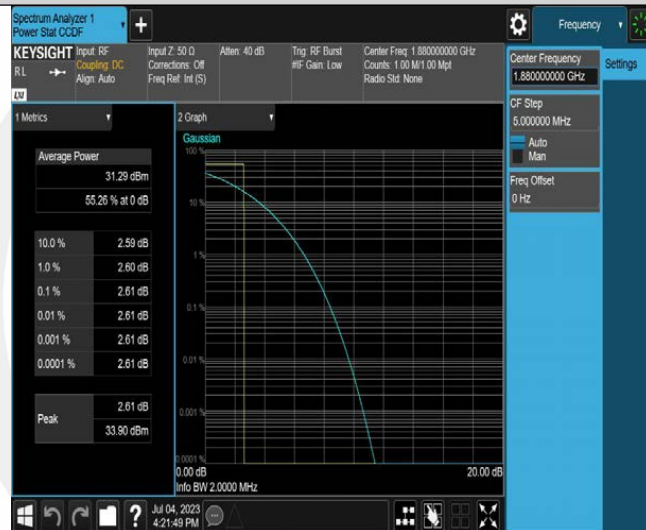
EGPRS850-251



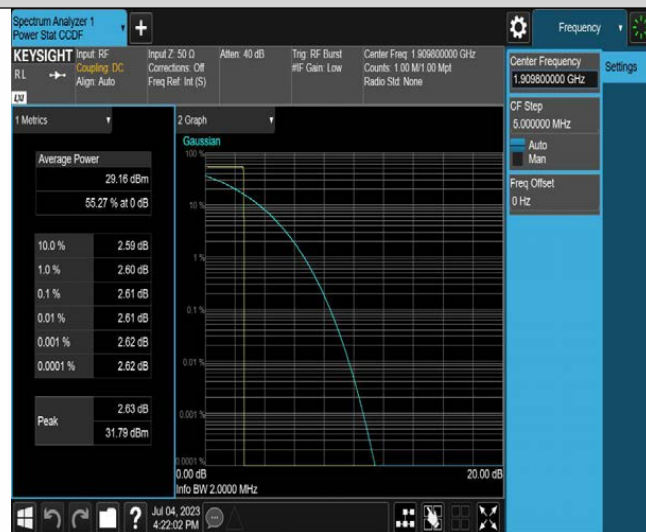
GSM1900-512



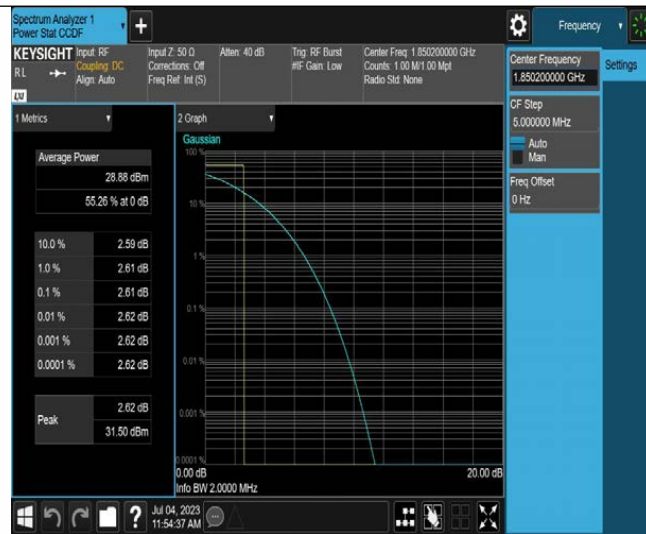
GSM1900-661



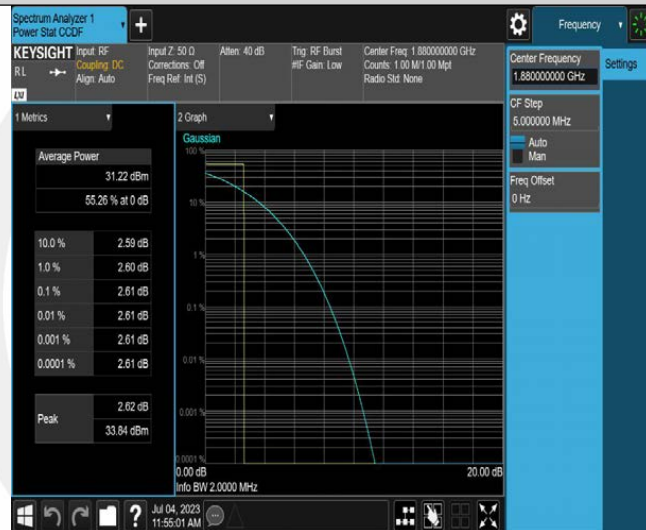
GSM1900-810



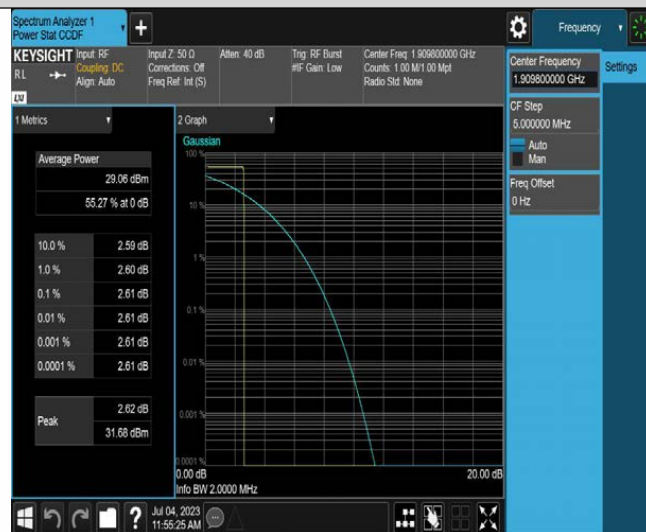
GPRS1900-512



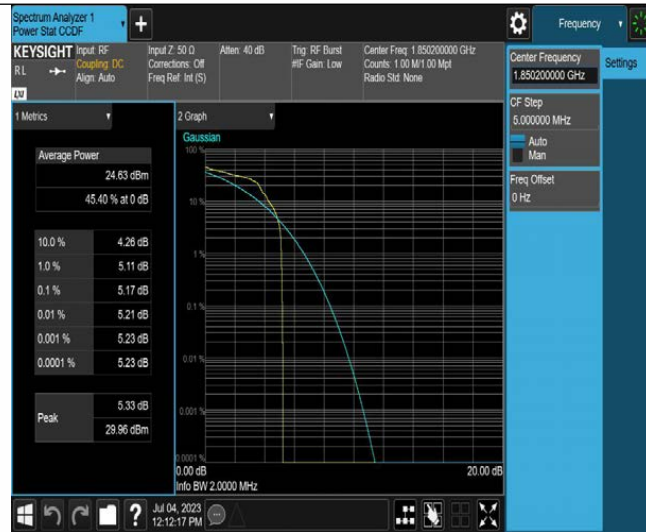
GPRS1900-661



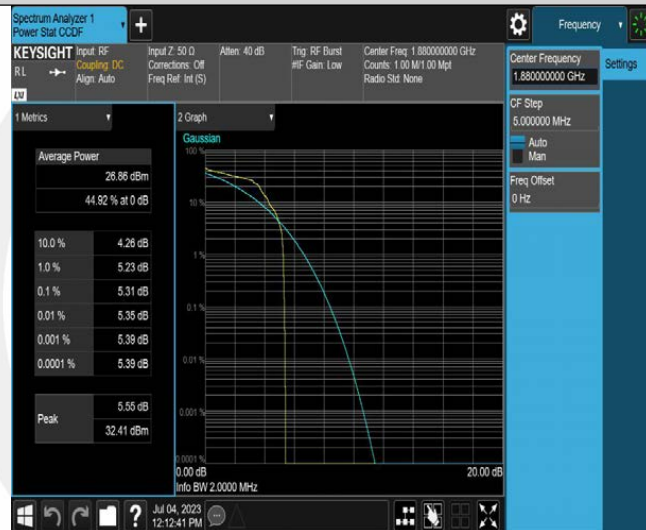
GPRS1900-810



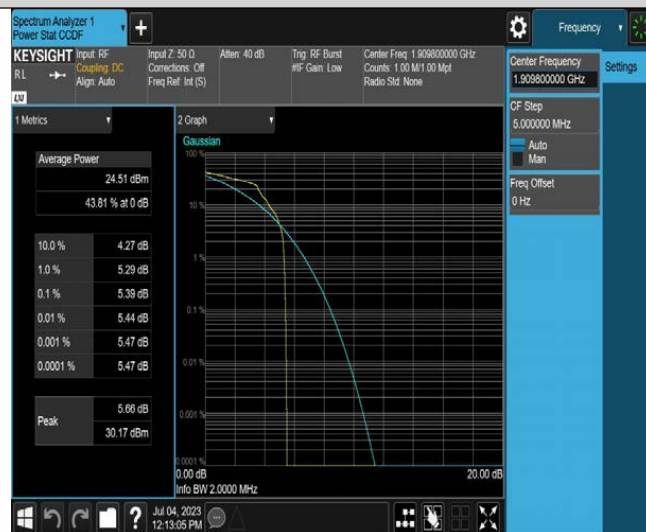
EGPRS1900-512



EGPRS1900-661



EGPRS1900-810

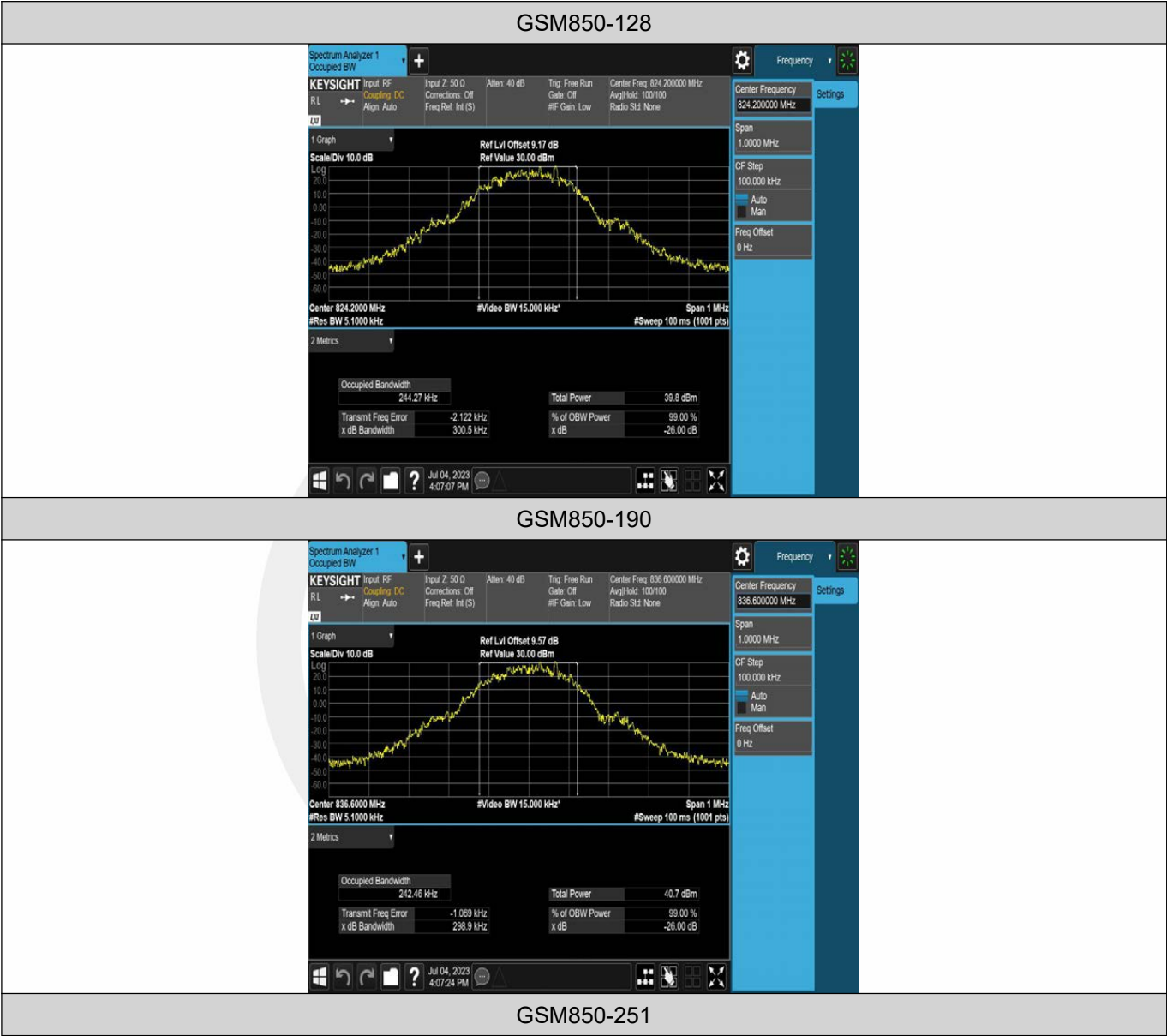


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24427	0.3005	---	PASS
GSM850	190	5	0.24246	0.2989	---	PASS
GSM850	251	5	0.24240	0.3069	---	PASS
GPRS850	128	5	0.24598	0.3234	---	PASS
GPRS850	190	5	0.24640	0.3170	---	PASS
GPRS850	251	5	0.24722	0.3061	---	PASS
EGPRS850	128	8	0.24720	0.3138	---	PASS
EGPRS850	190	8	0.24399	0.3070	---	PASS
EGPRS850	251	8	0.24490	0.3086	---	PASS
GSM1900	512	0	0.24369	0.3011	---	PASS
GSM1900	661	0	0.24778	0.3089	---	PASS
GSM1900	810	0	0.24300	0.3084	---	PASS
GPRS1900	512	0	0.24908	0.3158	---	PASS
GPRS1900	661	0	0.24896	0.3137	---	PASS
GPRS1900	810	0	0.24677	0.3164	---	PASS
EGPRS1900	512	2	0.24601	0.3033	---	PASS
EGPRS1900	661	2	0.24780	0.2993	---	PASS
EGPRS1900	810	2	0.24629	0.3105	---	PASS

Test Graphs





GPRS850-128



GPRS850-190



GPRS850-251



EGPRS850-128



EGPRS850-190



EGPRS850-251



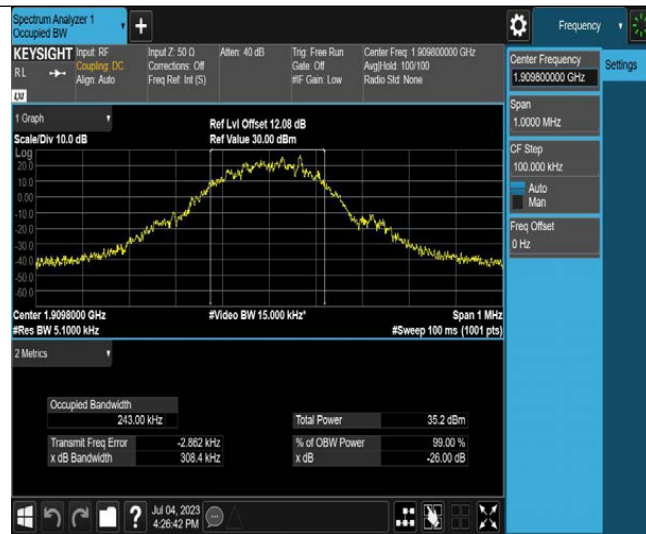
GSM1900-512



GSM1900-661



GSM1900-810



GPRS1900-512



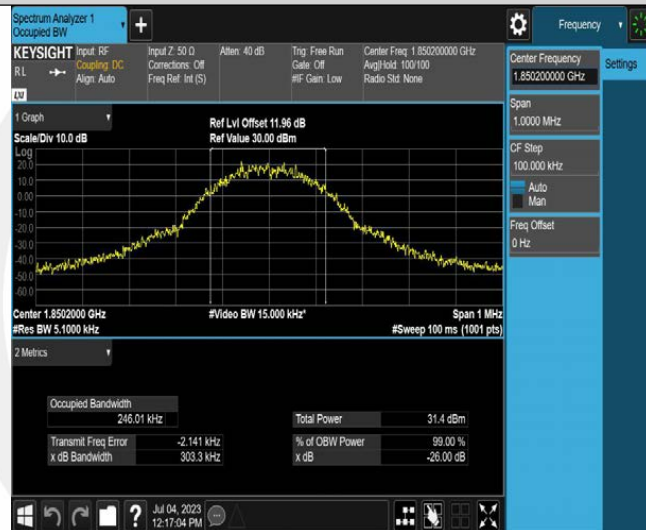
GPRS1900-661



GPRS1900-810



EGPRS1900-512



EGPRS1900-661



EGPRS1900-810

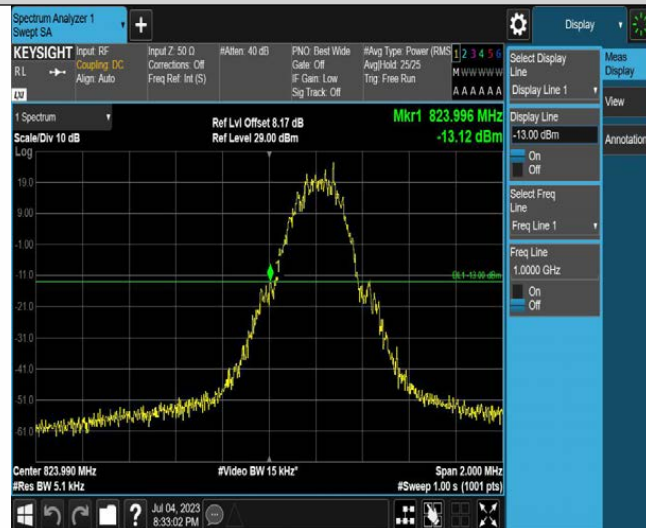
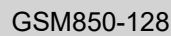


Appendix D: Band Edge

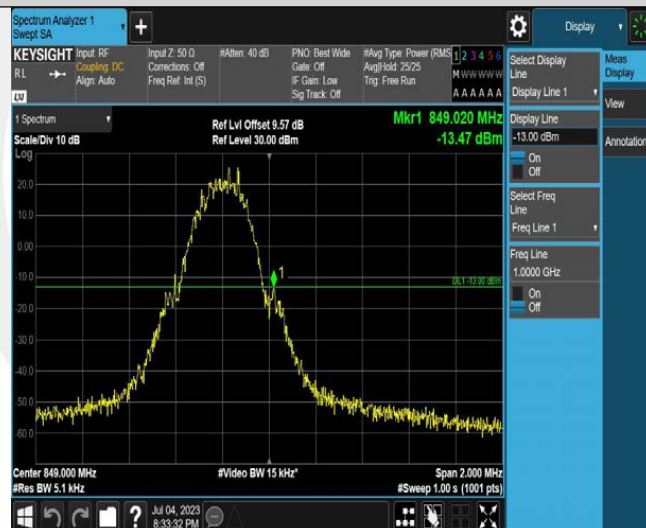
Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-13.12	-13	PASS
GSM850	251	5	849.02	-13.47	-13	PASS
GPRS850	128	5	824.00	-13.47	-13	PASS
GPRS850	251	5	849.02	-13.18	-13	PASS
EGPRS850	128	8	823.99	-21.35	-13	PASS
EGPRS850	251	8	849.03	-20.60	-13	PASS
GSM1900	512	0	1850.00	-15.13	-13	PASS
GSM1900	810	0	1910.02	-17.51	-13	PASS
GPRS1900	512	0	1849.98	-16.46	-13	PASS
GPRS1900	810	0	1910.02	-16.80	-13	PASS
EGPRS1900	512	2	1850.00	-25.13	-13	PASS
EGPRS1900	810	2	1910.00	-26.89	-13	PASS

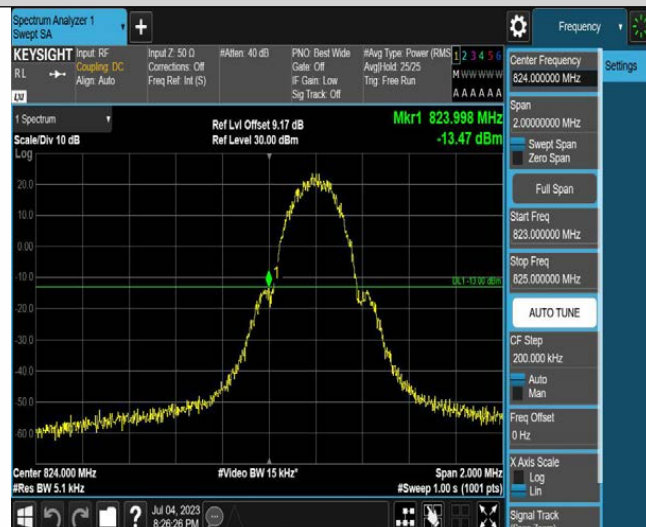
Test Graphs



GSM850-251



GPRS850-128



GPRS850-251



EGPRS850-128



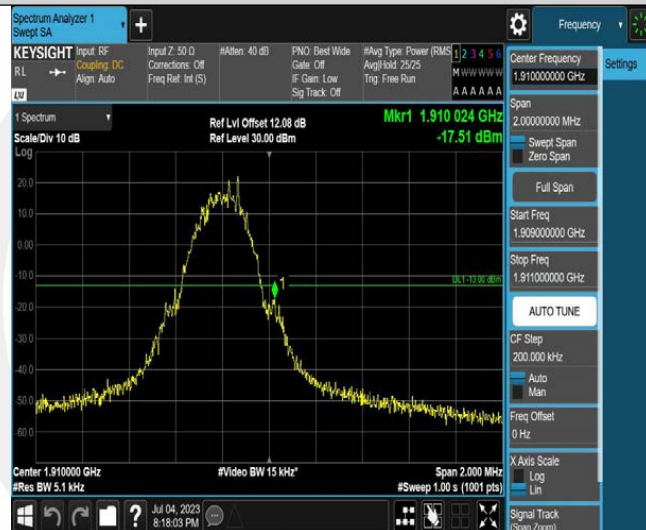
EGPRS850-251



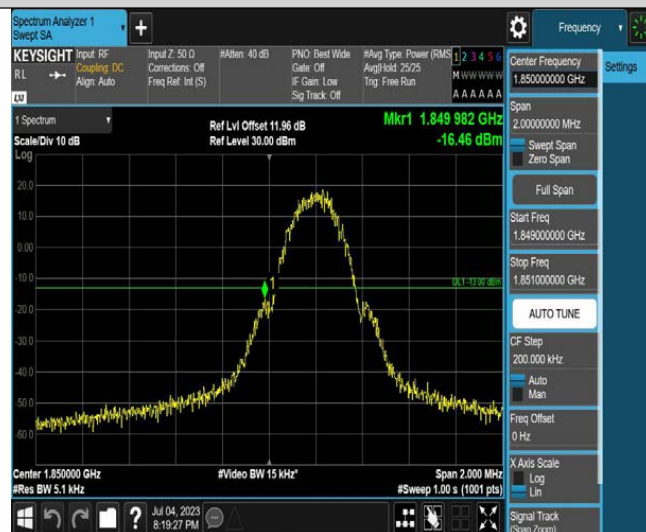
GSM1900-512



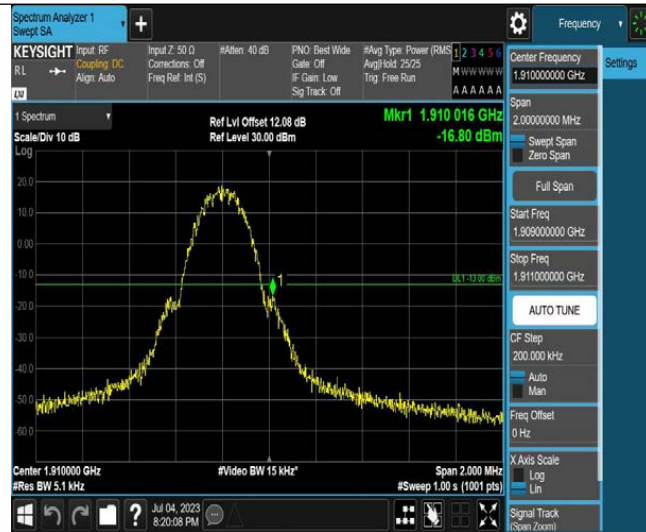
GSM1900-810



GPRS1900-512



GPRS1900-810



EGPRS1900-512



EGPRS1900-810



Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-45.14	-43	PASS
GSM850	128	5	0.15~30MHz	0.15	-59.59	-33	PASS
GSM850	128	5	30~1000MHz	970.22	-53.3	-23	PASS
GSM850	128	5	1000~3000MHz	1648.53	-35.01	-13	PASS
GSM850	128	5	3000~10000MHz z	3778.17	-39.94	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-76.6	-43	PASS
GSM850	190	5	0.15~30MHz	0.16	-86.75	-33	PASS
GSM850	190	5	30~1000MHz	973.2	-56.49	-23	PASS
GSM850	190	5	1000~3000MHz	1673.33	-45.01	-13	PASS
GSM850	190	5	3000~10000MHz z	3846.53	-40	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-76.89	-43	PASS
GSM850	251	5	0.15~30MHz	0.15	-86.14	-33	PASS
GSM850	251	5	30~1000MHz	983.51	-55.74	-23	PASS
GSM850	251	5	1000~3000MHz	1697.6	-36.23	-13	PASS
GSM850	251	5	3000~10000MHz z	3844.43	-39.89	-13	PASS
GPRS850	128	5	0.009~0.15MHz	0.01	-45.68	-43	PASS
GPRS850	128	5	0.15~30MHz	0.16	-61.12	-33	PASS
GPRS850	128	5	30~1000MHz	993.47	-53.31	-23	PASS
GPRS850	128	5	1000~3000MHz	1648.33	-34.71	-13	PASS
GPRS850	128	5	3000~10000MHz z	3836.03	-39.83	-13	PASS
GPRS850	190	5	0.009~0.15MHz	0.01	-74.6	-43	PASS
GPRS850	190	5	0.15~30MHz	0.15	-79.77	-33	PASS
GPRS850	190	5	30~1000MHz	938.02	-56.37	-23	PASS
GPRS850	190	5	1000~3000MHz	1673.13	-45	-13	PASS
GPRS850	190	5	3000~10000MHz z	3850.5	-39.87	-13	PASS
GPRS850	251	5	0.009~0.15MHz	0.11	-75.6	-43	PASS

GPRS850	251	5	0.15~30MHz	0.15	-78.78	-33	PASS
GPRS850	251	5	30~1000MHz	957.19	-55.92	-23	PASS
GPRS850	251	5	1000~3000MHz	1697.27	-37.31	-13	PASS
GPRS850	251	5	3000~10000MHz z	3771.17	-39.71	-13	PASS
EGPRS850	128	8	0.009~0.15MHz	0.03	-43.92	-43	PASS
EGPRS850	128	8	0.15~30MHz	0.17	-44.57	-33	PASS
EGPRS850	128	8	30~1000MHz	617.88	-56.34	-23	PASS
EGPRS850	128	8	1000~3000MHz	2647.13	-45.94	-13	PASS
EGPRS850	128	8	3000~10000MHz z	3850.27	-39.58	-13	PASS
EGPRS850	190	8	0.009~0.15MHz	0.01	-75.61	-43	PASS
EGPRS850	190	8	0.15~30MHz	0.15	-84.32	-33	PASS
EGPRS850	190	8	30~1000MHz	984.67	-56.16	-23	PASS
EGPRS850	190	8	1000~3000MHz	2654.07	-45.91	-13	PASS
EGPRS850	190	8	3000~10000MHz z	3791.93	-39.85	-13	PASS
EGPRS850	251	8	0.009~0.15MHz	0.01	-77.25	-43	PASS
EGPRS850	251	8	0.15~30MHz	0.15	-84.93	-33	PASS
EGPRS850	251	8	30~1000MHz	995.73	-55.87	-23	PASS
EGPRS850	251	8	1000~3000MHz	2603.93	-45.81	-13	PASS
EGPRS850	251	8	3000~10000MHz z	3847.7	-39.77	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-50.18	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-64.75	-33	PASS
GSM1900	512	0	30~1000MHz	780.55	-55.87	-23	PASS
GSM1900	512	0	1000~3000MHz	2609.13	-48.02	-13	PASS
GSM1900	512	0	3000~18000MHz z	3700.5	-37.81	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-76.83	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-86.43	-33	PASS
GSM1900	661	0	30~1000MHz	903.68	-56.11	-23	PASS
GSM1900	661	0	1000~3000MHz	2647.33	-48.13	-13	PASS
GSM1900	661	0	3000~18000MHz z	3844.5	-39.73	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-76.95	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-85.41	-33	PASS

GSM1900	810	0	30~1000MHz	797.56	-55.81	-23	PASS
GSM1900	810	0	1000~3000MHz	2683.73	-48.05	-13	PASS
GSM1900	810	0	3000~18000MHz z	3819.5	-37.66	-13	PASS
GPRS1900	512	0	0.009~0.15MHz	0.01	-51.18	-43	PASS
GPRS1900	512	0	0.15~30MHz	0.15	-67.67	-33	PASS
GPRS1900	512	0	30~1000MHz	855.92	-55.86	-23	PASS
GPRS1900	512	0	1000~3000MHz	2648.4	-47.53	-13	PASS
GPRS1900	512	0	3000~18000MHz z	3700.5	-37.36	-13	PASS
GPRS1900	661	0	0.009~0.15MHz	0.01	-77.09	-43	PASS
GPRS1900	661	0	0.15~30MHz	0.15	-84.99	-33	PASS
GPRS1900	661	0	30~1000MHz	763.35	-56.05	-23	PASS
GPRS1900	661	0	1000~3000MHz	2642.87	-47.64	-13	PASS
GPRS1900	661	0	3000~18000MHz z	3760	-35.63	-13	PASS
GPRS1900	810	0	0.009~0.15MHz	0.01	-76.81	-43	PASS
GPRS1900	810	0	0.15~30MHz	0.15	-84.96	-33	PASS
GPRS1900	810	0	30~1000MHz	903.68	-55.24	-23	PASS
GPRS1900	810	0	1000~3000MHz	2599.87	-47.52	-13	PASS
GPRS1900	810	0	3000~18000MHz z	3845.5	-40.03	-13	PASS
EGPRS1900	512	2	0.009~0.15MHz	0.01	-48.29	-43	PASS
EGPRS1900	512	2	0.15~30MHz	0.15	-54.61	-33	PASS
EGPRS1900	512	2	30~1000MHz	896.15	-55.62	-23	PASS
EGPRS1900	512	2	1000~3000MHz	2628.53	-48.14	-13	PASS
EGPRS1900	512	2	3000~18000MHz z	3843	-39.99	-13	PASS
EGPRS1900	661	2	0.009~0.15MHz	0.01	-77	-43	PASS
EGPRS1900	661	2	0.15~30MHz	0.15	-86.06	-33	PASS
EGPRS1900	661	2	30~1000MHz	890.65	-55.52	-23	PASS

0							
EGPRS190 0	661	2	1000~3000MHz	2609.27	-48.16	-13	PASS
EGPRS190 0	661	2	3000~18000MHz z	3759.5	-39.73	-13	PASS
EGPRS190 0	810	2	0.009~0.15MHz	0.01	-76.19	-43	PASS
EGPRS190 0	810	2	0.15~30MHz	0.15	-86.86	-33	PASS
EGPRS190 0	810	2	30~1000MHz	832.29	-55.03	-23	PASS
EGPRS190 0	810	2	1000~3000MHz	2640.73	-48.02	-13	PASS
EGPRS190 0	810	2	3000~18000MHz z	3797.5	-39.99	-13	PASS

Test Graphs

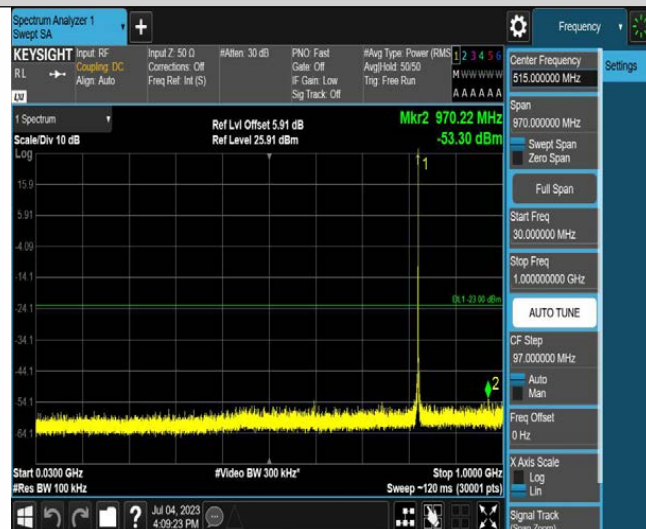
GSM850-128-0.009~0.15MHz



GSM850-128-0.15~30MHz



GSM850-128-30~1000MHz



GSM850-128-1000~3000MHz



GSM850-128-3000~10000MHz



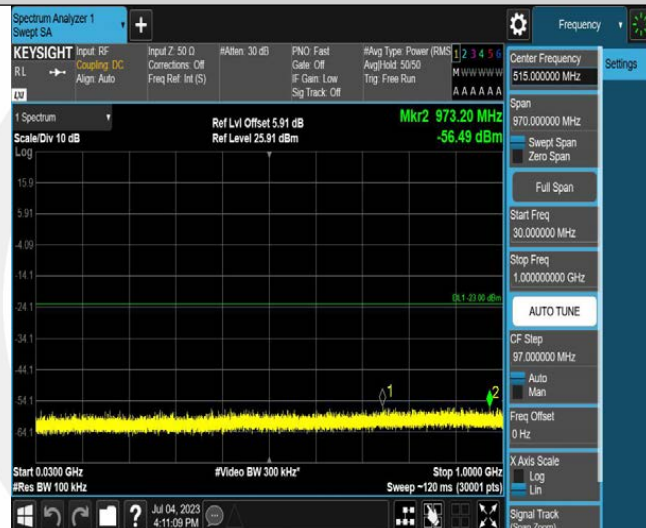
GSM850-190-0.009~0.15MHz



GSM850-190-0.15~30MHz



GSM850-190-30~1000MHz



GSM850-190-1000~3000MHz



GSM850-190-3000~10000MHz



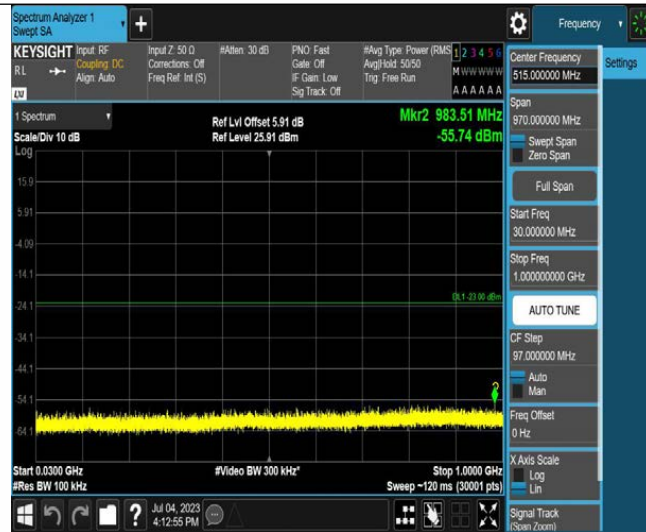
GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz



GSM850-251-30~1000MHz



GSM850-251-1000~3000MHz



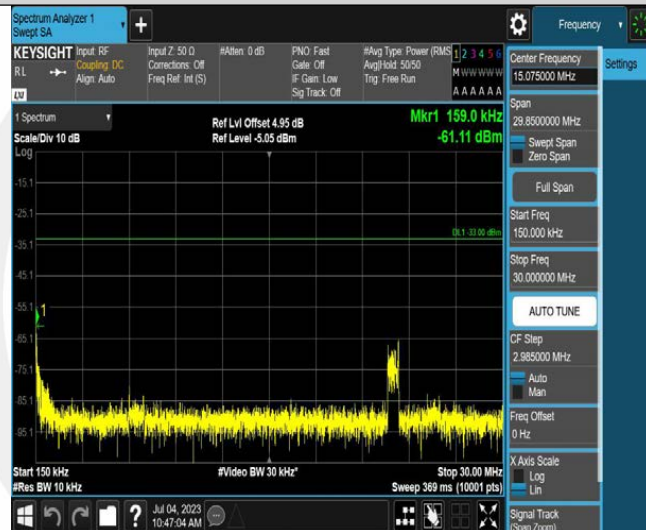
GSM850-251-3000~10000MHz



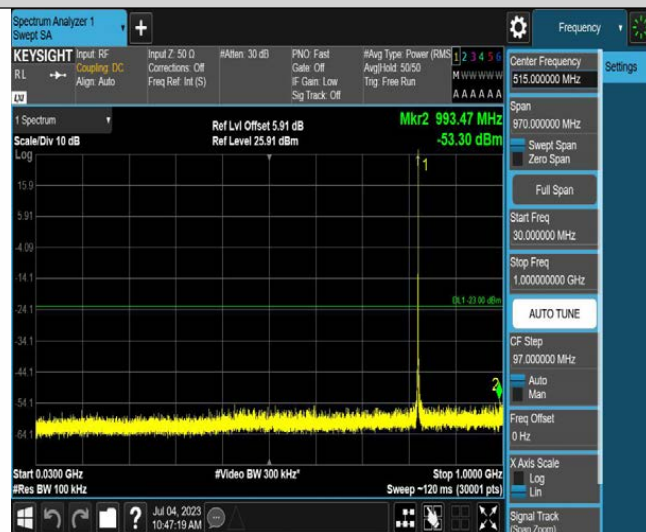
GPRS850-128-0.009~0.15MHz



GPRS850-128-0.15~30MHz



GPRS850-128-30~1000MHz



GPRS850-128-1000~3000MHz



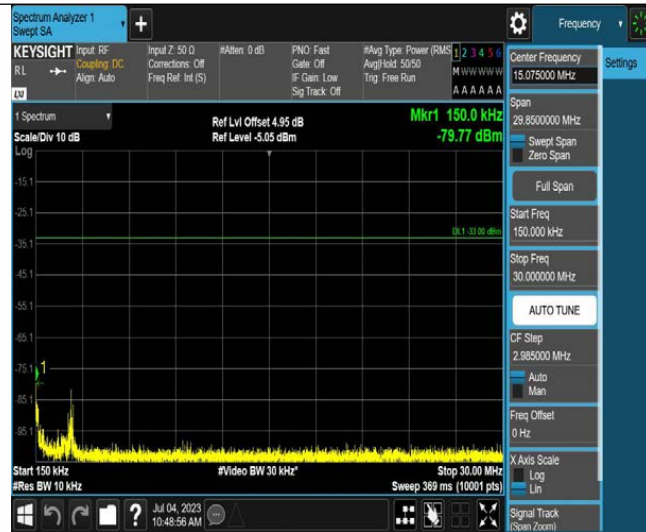
GPRS850-128-3000~10000MHz



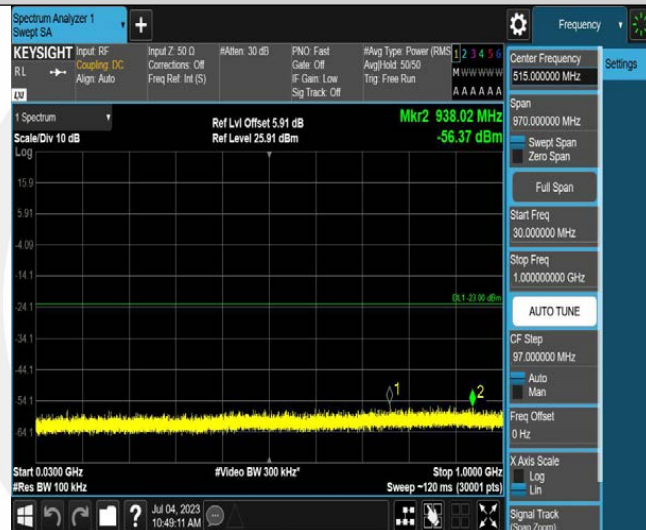
GPRS850-190-0.009~0.15MHz



GPRS850-190-0.15~30MHz



GPRS850-190-30~1000MHz



GPRS850-190-1000~3000MHz



GPRS850-190-3000~10000MHz



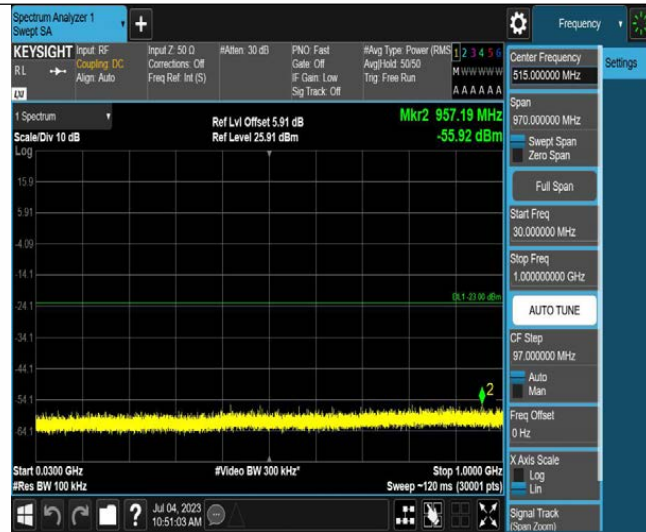
GPRS850-251-0.009~0.15MHz



GPRS850-251-0.15~30MHz



GPRS850-251-30~1000MHz



GPRS850-251-1000~3000MHz



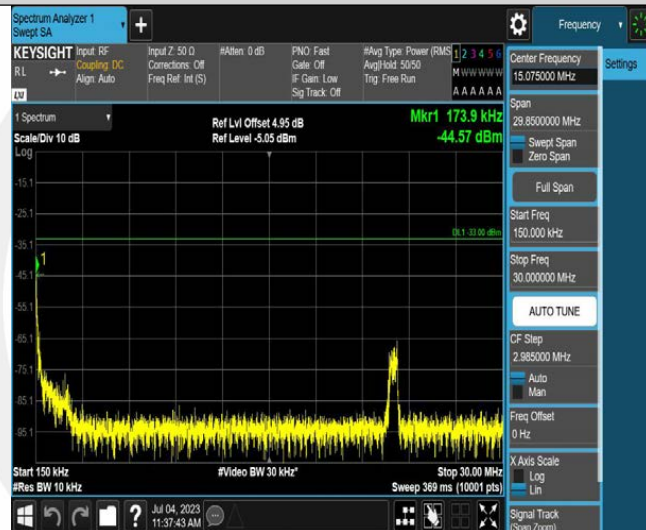
GPRS850-251-3000~10000MHz



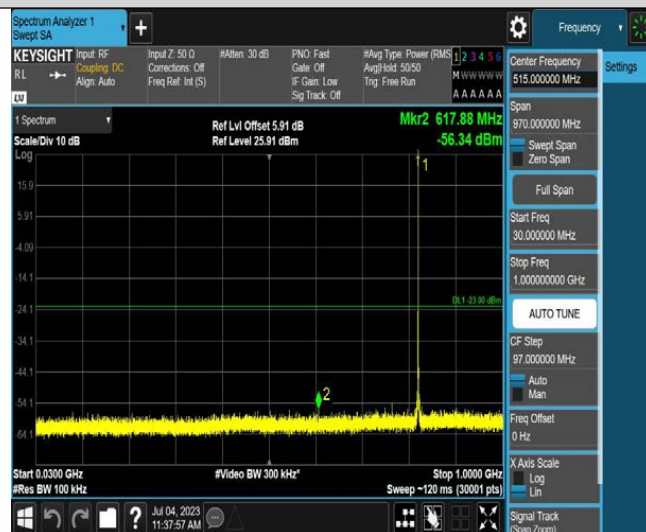
EGPRS850-128-0.009~0.15MHz



EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz



EGPRS850-128-1000~3000MHz



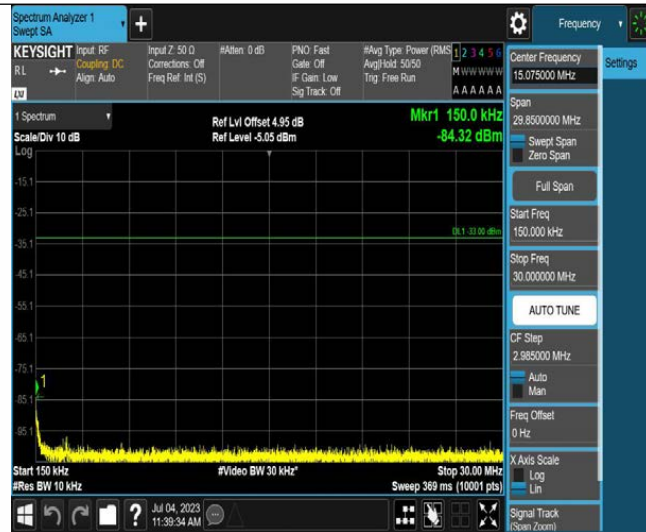
EGPRS850-128-3000~10000MHz



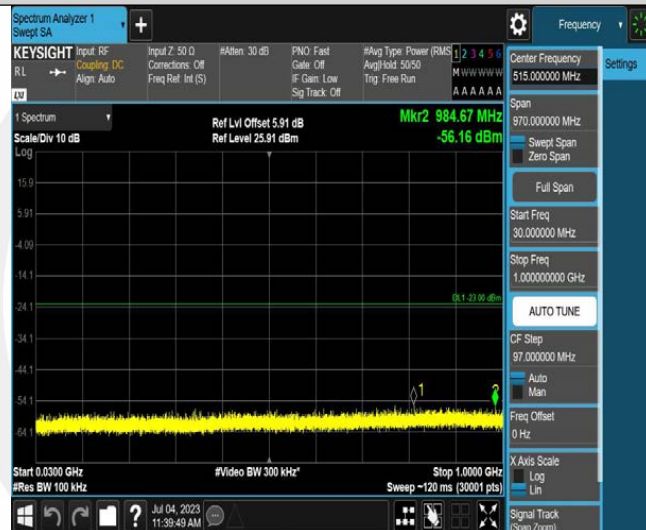
EGPRS850-190-0.009~0.15MHz



EGPRS850-190-0.15~30MHz



EGPRS850-190-30~1000MHz



EGPRS850-190-1000~3000MHz



EGPRS850-190-3000~10000MHz



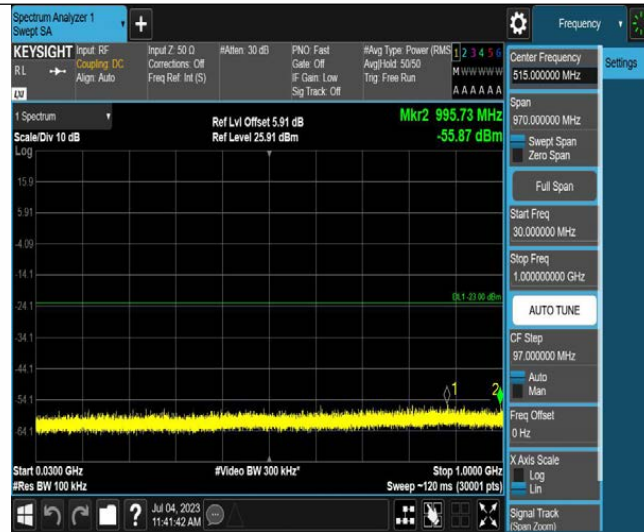
EGPRS850-251-0.009~0.15MHz



EGPRS850-251-0.15~30MHz



EGPRS850-251-30~1000MHz



EGPRS850-251-1000~3000MHz



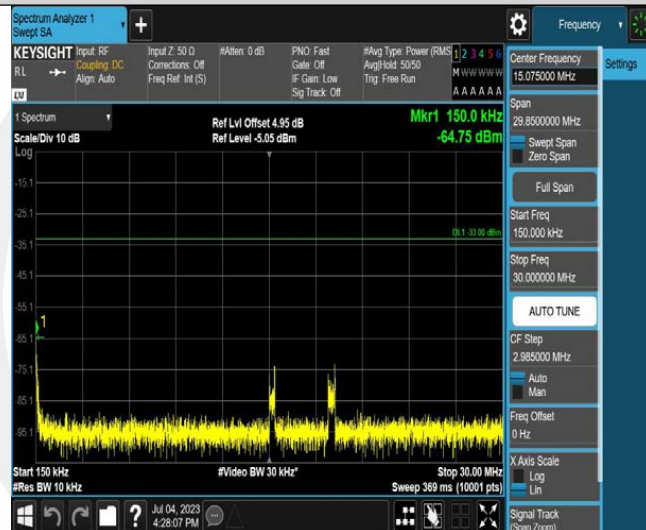
EGPRS850-251-3000~10000MHz



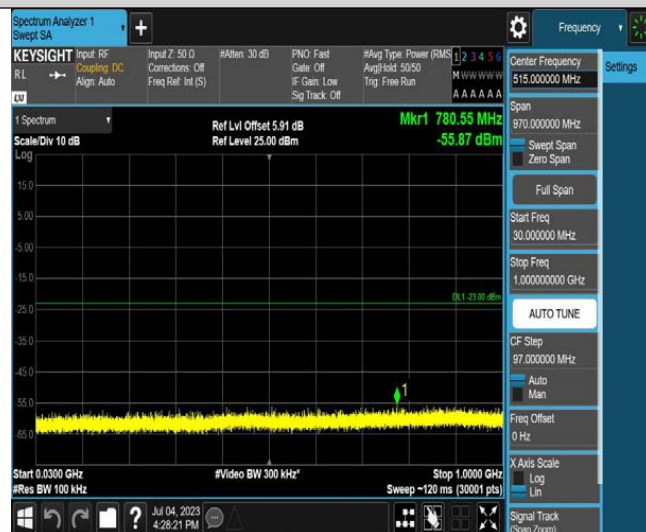
GSM1900-512-0.009~0.15MHz



GSM1900-512-0.15~30MHz



GSM1900-512-30~1000MHz



GSM1900-512-1000~3000MHz



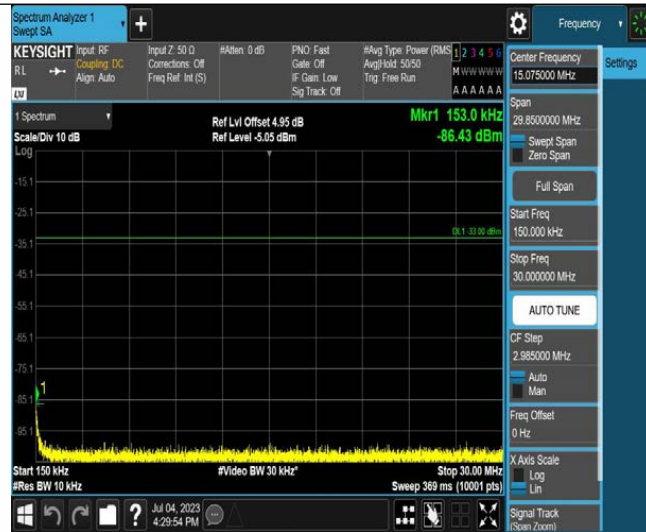
GSM1900-512-3000~18000MHz



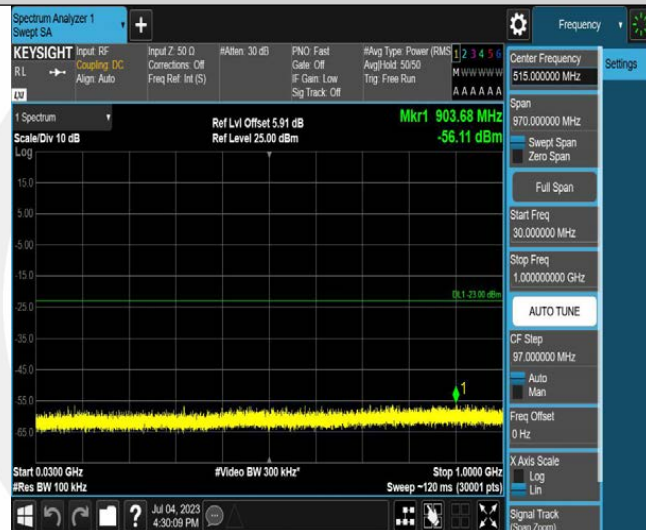
GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



GSM1900-661-30~1000MHz



GSM1900-661-1000~3000MHz



GSM1900-661-3000~18000MHz



GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz



GSM1900-810-30~1000MHz