

Appendix-B GSM

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Result (dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GSM850	128	33.08	31.23	38.45	PASS
GSM850	190	33.05	31.20	38.45	PASS
GSM850	251	32.96	31.11	38.45	PASS
GSM1900	512	30.50	32.30	33.00	PASS
GSM1900	661	30.39	32.19	33.00	PASS
GSM1900	810	30.32	32.12	33.00	PASS

Band	Channel	Slot	Result (dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GPRS850	128	1	33.15	31.30	38.45	PASS
GPRS850	190	1	33.04	31.19	38.45	PASS
GPRS850	251	1	32.85	31.00	38.45	PASS
GPRS850	128	2	32.58	30.73	38.45	PASS
GPRS850	190	2	32.58	30.73	38.45	PASS
GPRS850	251	2	32.21	30.36	38.45	PASS
GPRS850	128	3	30.49	28.64	38.45	PASS
GPRS850	190	3	30.54	28.69	38.45	PASS
GPRS850	251	3	30.06	28.21	38.45	PASS
GPRS850	128	4	29.28	27.43	38.45	PASS
GPRS850	190	4	29.09	27.24	38.45	PASS
GPRS850	251	4	28.78	26.93	38.45	PASS
GPRS1900	512	1	30.57	32.37	33.00	PASS
GPRS1900	661	1	30.40	32.20	33.00	PASS
GPRS1900	810	1	30.33	32.13	33.00	PASS
GPRS1900	512	2	29.02	30.82	33.00	PASS
GPRS1900	661	2	29.11	30.91	33.00	PASS
GPRS1900	810	2	28.89	30.69	33.00	PASS
GPRS1900	512	3	27.52	29.32	33.00	PASS
GPRS1900	661	3	27.80	29.60	33.00	PASS
GPRS1900	810	3	27.34	29.14	33.00	PASS
GPRS1900	512	4	25.75	27.55	33.00	PASS
GPRS1900	661	4	25.89	27.69	33.00	PASS
GPRS1900	810	4	25.52	27.32	33.00	PASS

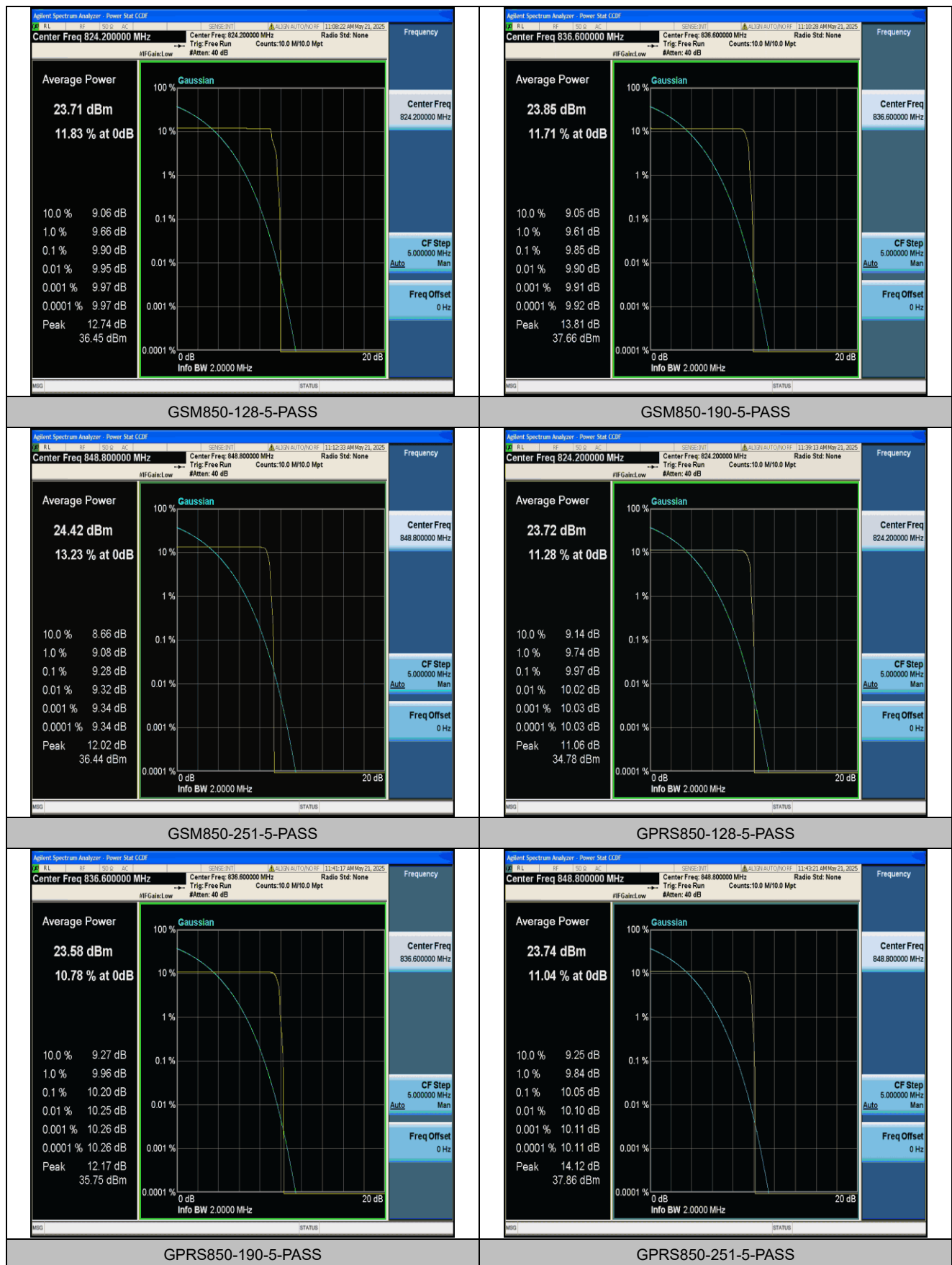
Band	Channel	Slot	Result (dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.85	26.00	38.45	PASS
EGPRS850	190	1	27.67	25.82	38.45	PASS
EGPRS850	251	1	27.34	25.49	38.45	PASS
EGPRS850	128	2	27.20	25.35	38.45	PASS
EGPRS850	190	2	27.10	25.25	38.45	PASS
EGPRS850	251	2	23.78	21.93	38.45	PASS
EGPRS850	128	3	25.36	23.51	38.45	PASS
EGPRS850	190	3	25.22	23.37	38.45	PASS
EGPRS850	251	3	24.87	23.02	38.45	PASS
EGPRS850	128	4	24.25	22.40	38.45	PASS
EGPRS850	190	4	24.10	22.25	38.45	PASS
EGPRS850	251	4	23.79	21.94	38.45	PASS
EGPRS1900	512	1	26.70	28.50	33.00	PASS
EGPRS1900	661	1	26.79	28.59	33.00	PASS
EGPRS1900	810	1	26.45	28.25	33.00	PASS
EGPRS1900	512	2	25.64	27.44	33.00	PASS
EGPRS1900	661	2	25.75	27.55	33.00	PASS
EGPRS1900	810	2	25.42	27.22	33.00	PASS
EGPRS1900	512	3	24.11	25.91	33.00	PASS
EGPRS1900	661	3	24.20	26.00	33.00	PASS
EGPRS1900	810	3	23.85	25.65	33.00	PASS
EGPRS1900	512	4	22.99	24.79	33.00	PASS
EGPRS1900	661	4	23.10	24.90	33.00	PASS
EGPRS1900	810	4	22.75	24.55	33.00	PASS

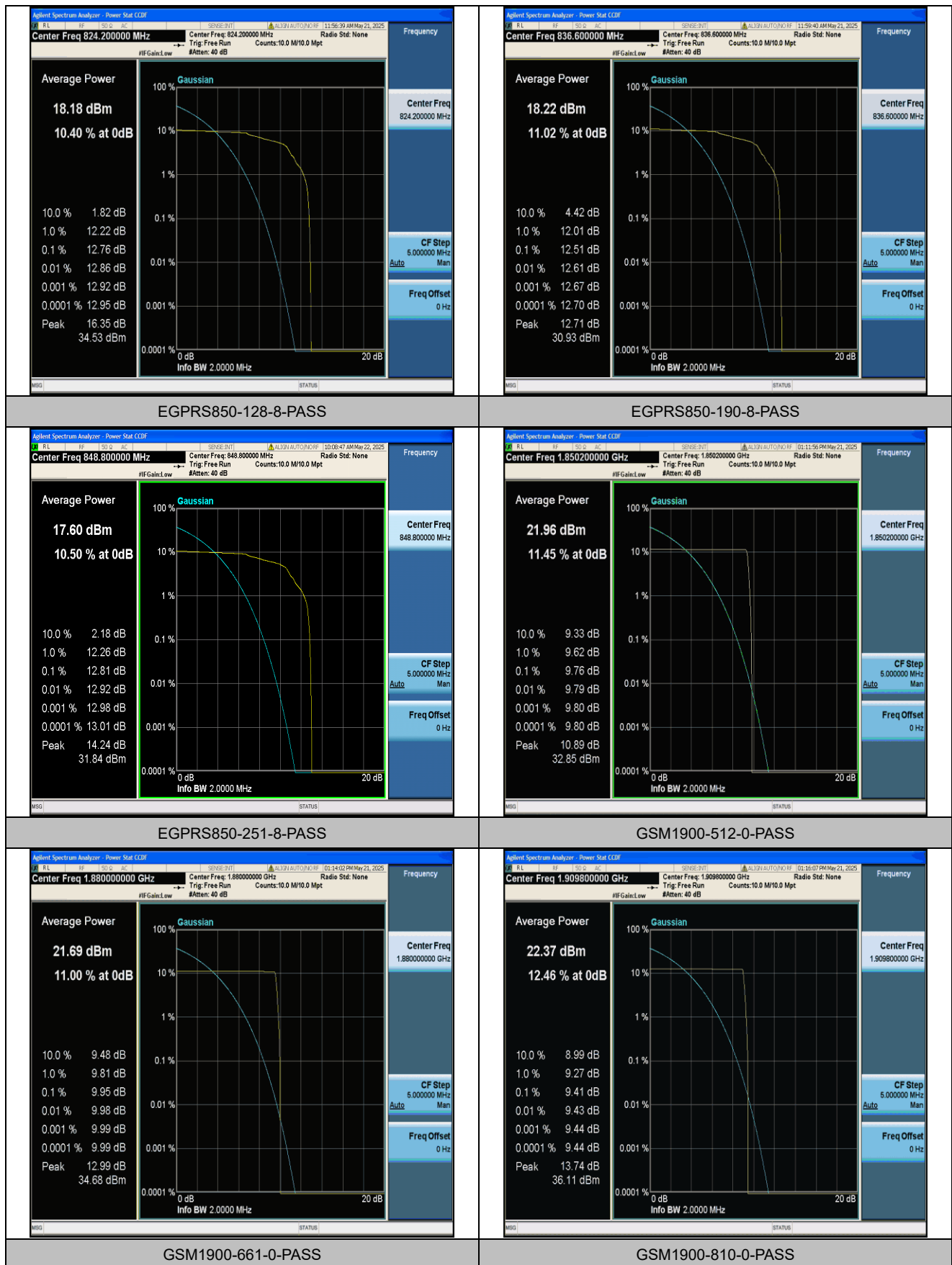
Peak-to-Average Ratio(CCDF)

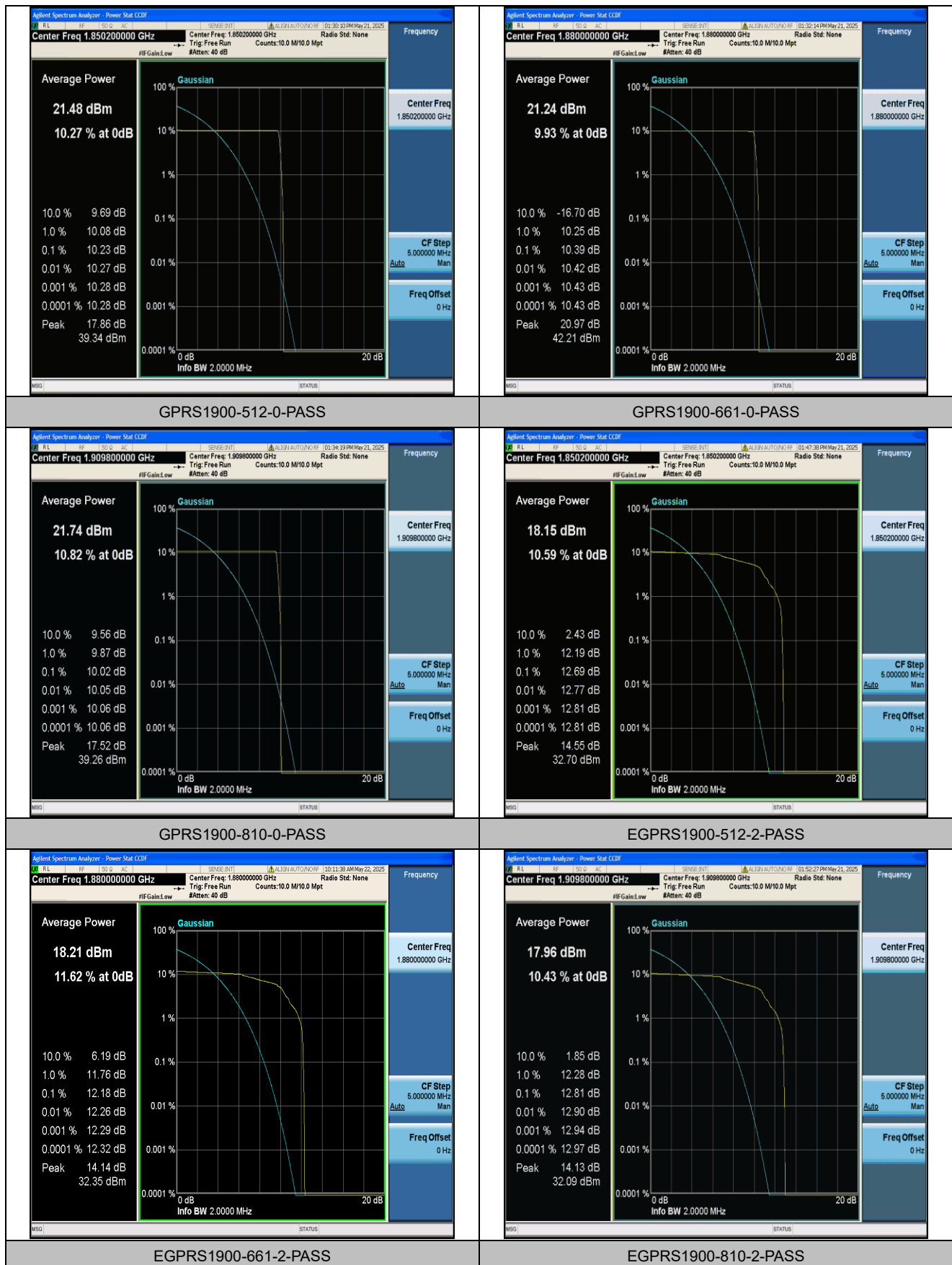
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.90	13	PASS
GSM850	190	9.85	13	PASS
GSM850	251	9.28	13	PASS
GPRS850	128	9.97	13	PASS
GPRS850	190	10.20	13	PASS
GPRS850	251	10.05	13	PASS
EGPRS850	128	12.76	13	PASS
EGPRS850	190	12.51	13	PASS
EGPRS850	251	12.81	13	PASS
GSM1900	512	9.76	13	PASS
GSM1900	661	9.95	13	PASS
GSM1900	810	9.41	13	PASS
GPRS1900	512	10.23	13	PASS
GPRS1900	661	10.39	13	PASS
GPRS1900	810	10.02	13	PASS
EGPRS1900	512	12.69	13	PASS
EGPRS1900	661	12.18	13	PASS
EGPRS1900	810	12.81	13	PASS

Test Graphs





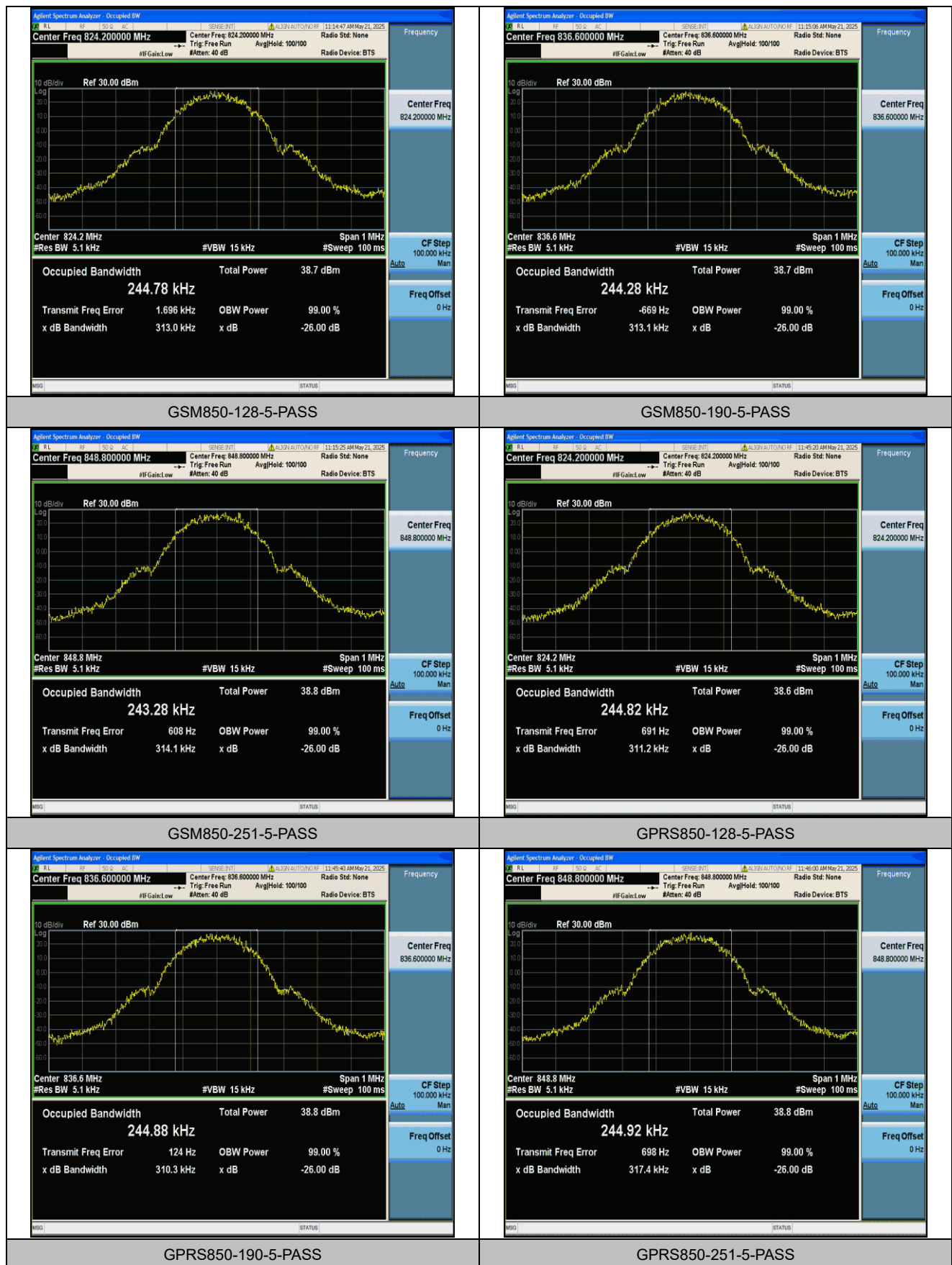


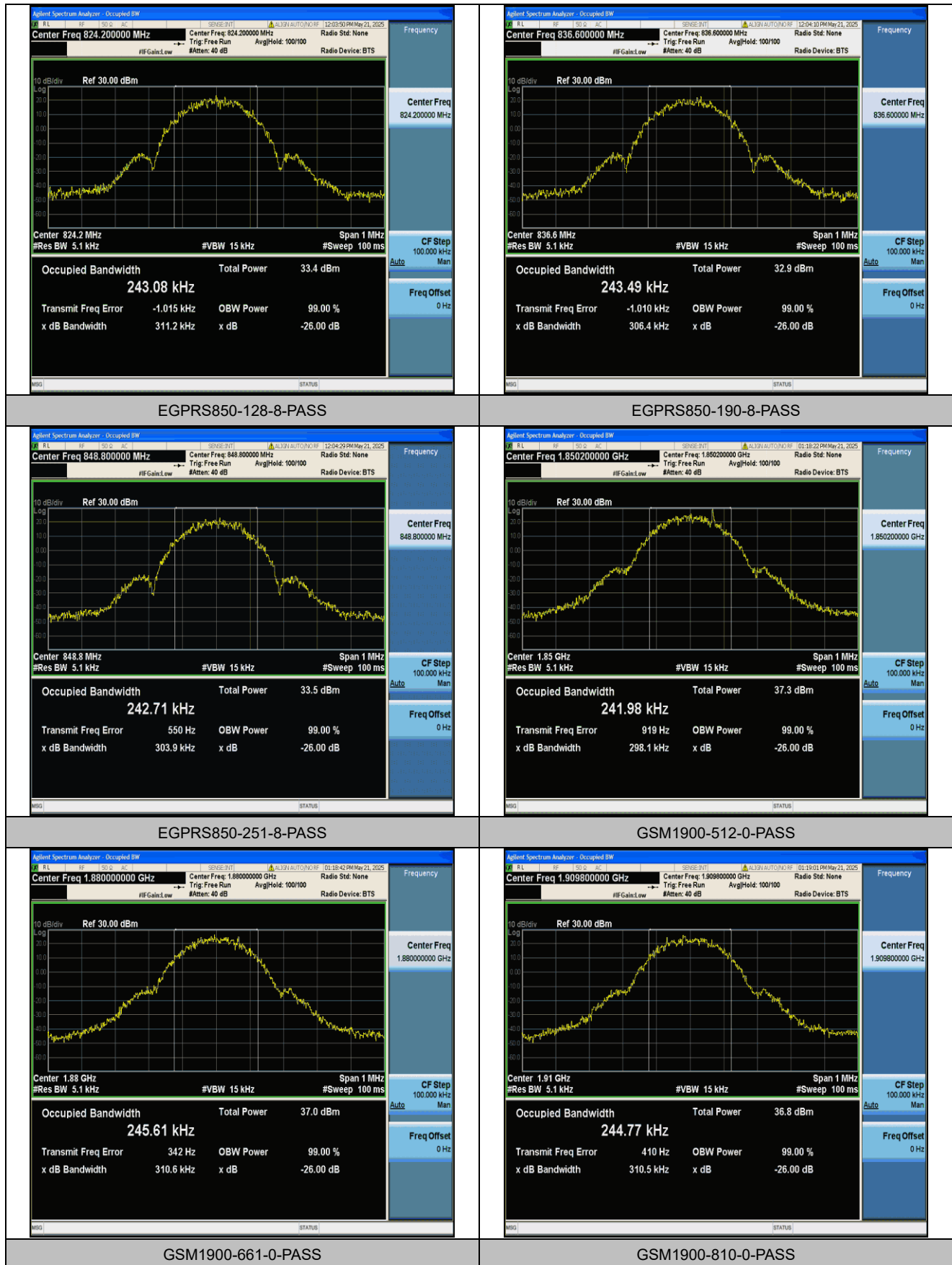
26dB Bandwidth and Occupied Bandwidth

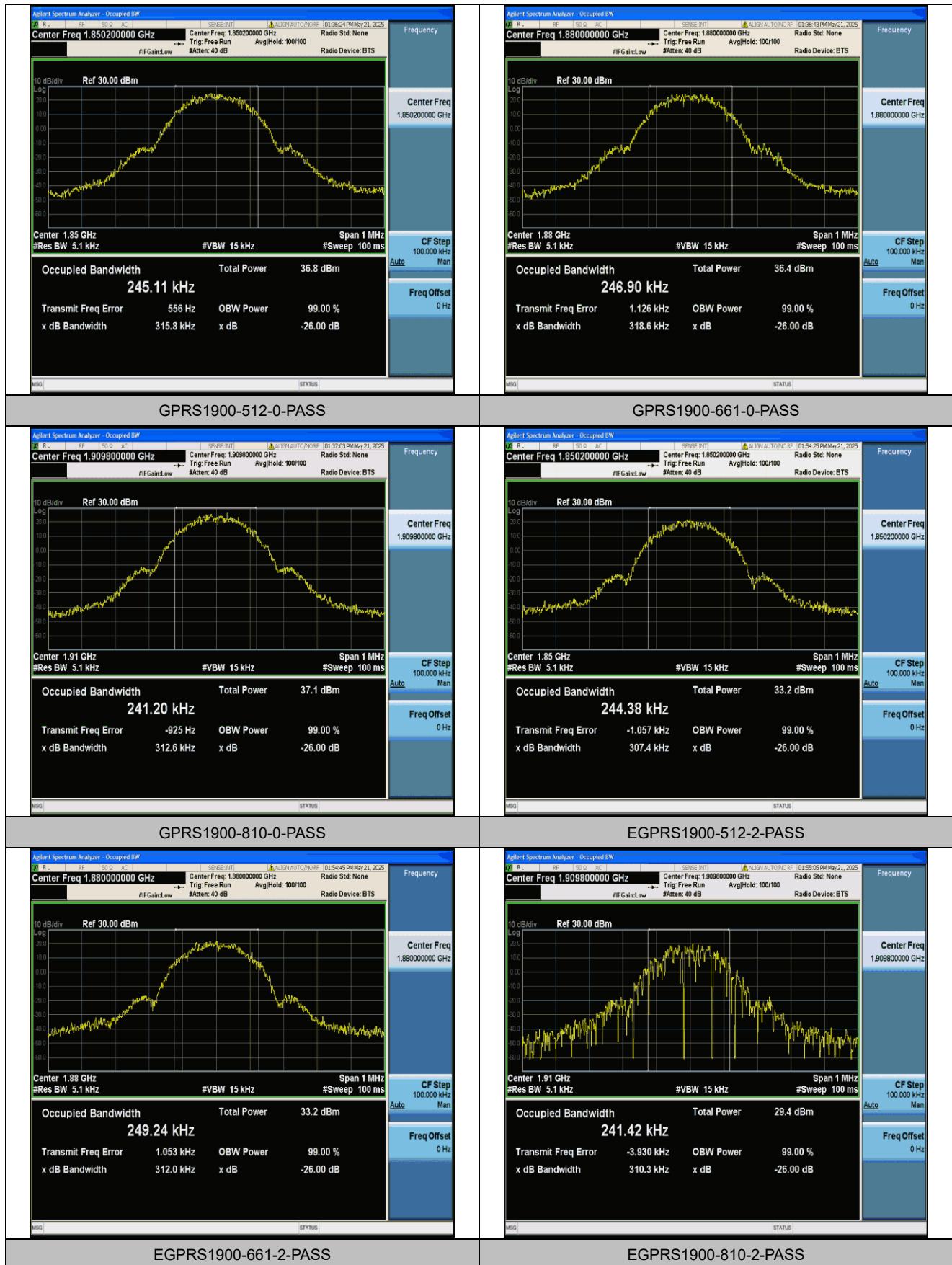
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24478	0.3130	---	PASS
GSM850	190	0.24428	0.3131	---	PASS
GSM850	251	0.24328	0.3141	---	PASS
GPRS850	128	0.24482	0.3112	---	PASS
GPRS850	190	0.24488	0.3103	---	PASS
GPRS850	251	0.24492	0.3174	---	PASS
EGPRS850	128	0.24308	0.3112	---	PASS
EGPRS850	190	0.24349	0.3064	---	PASS
EGPRS850	251	0.24271	0.3039	---	PASS
GSM1900	512	0.24198	0.2981	---	PASS
GSM1900	661	0.24561	0.3106	---	PASS
GSM1900	810	0.24477	0.3105	---	PASS
GPRS1900	512	0.24511	0.3158	---	PASS
GPRS1900	661	0.24690	0.3186	---	PASS
GPRS1900	810	0.24120	0.3126	---	PASS
EGPRS1900	512	0.24438	0.3074	---	PASS
EGPRS1900	661	0.24924	0.3120	---	PASS
EGPRS1900	810	0.24142	0.3103	---	PASS

Test Graphs

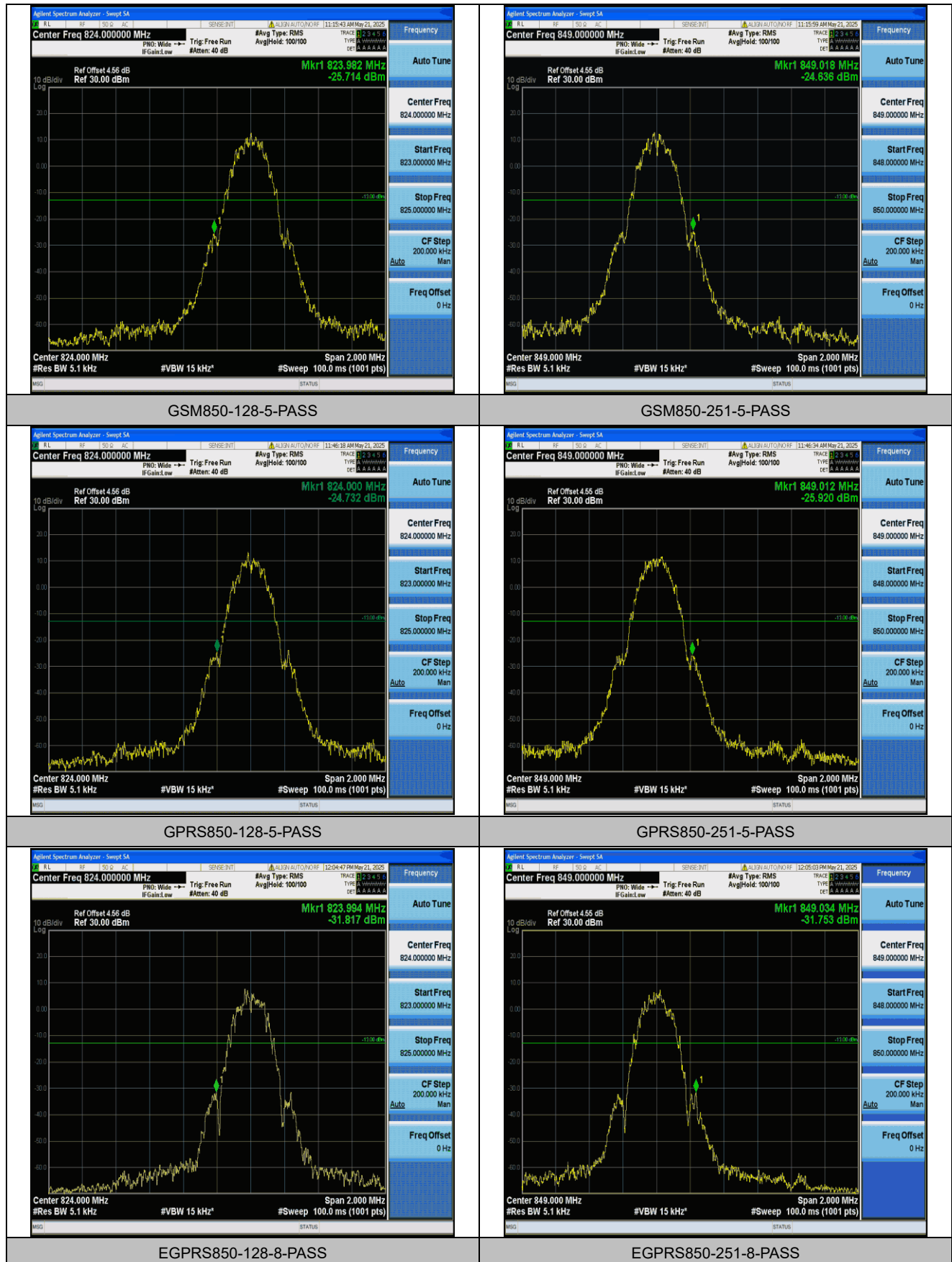


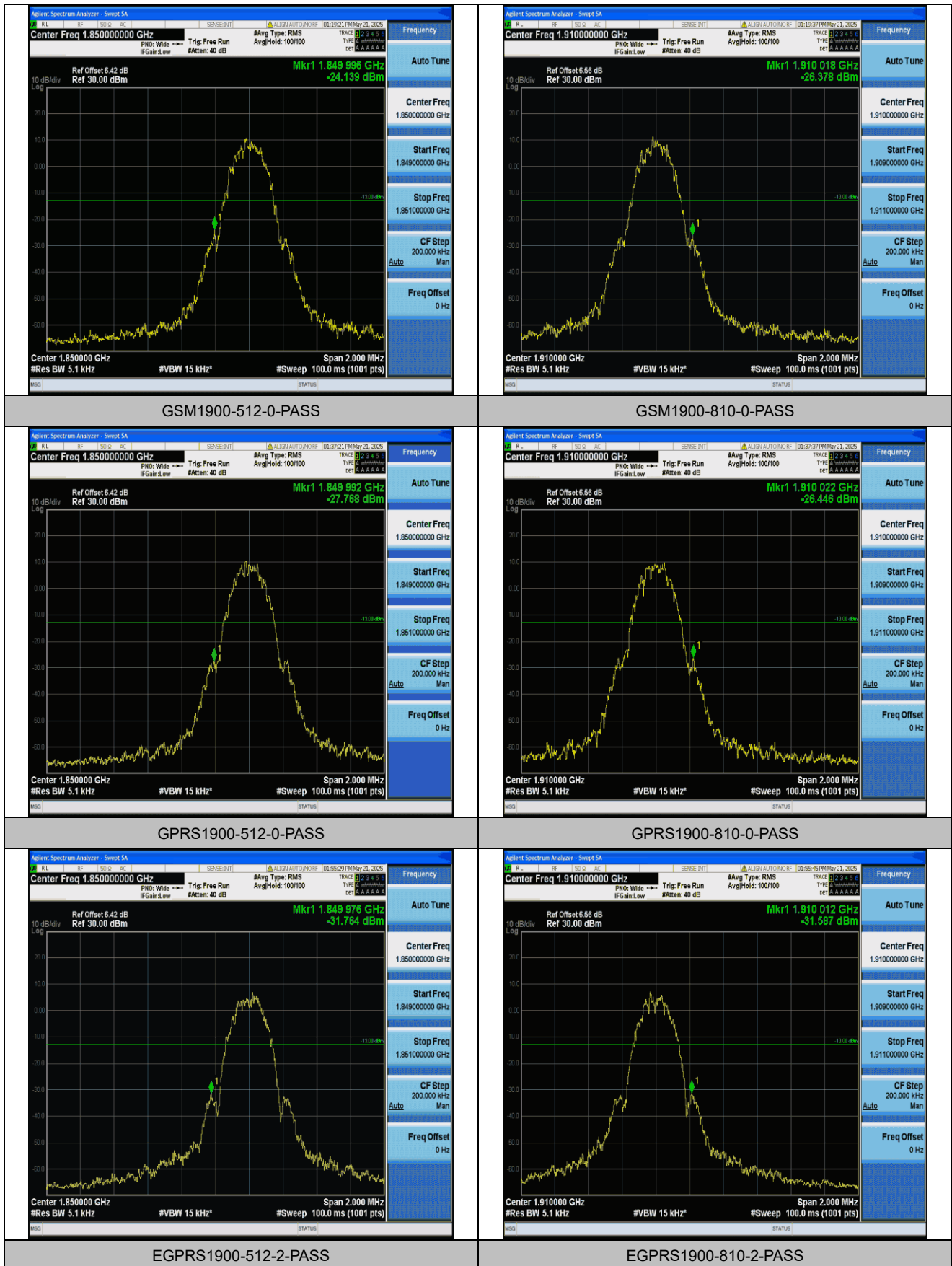




Band Edge

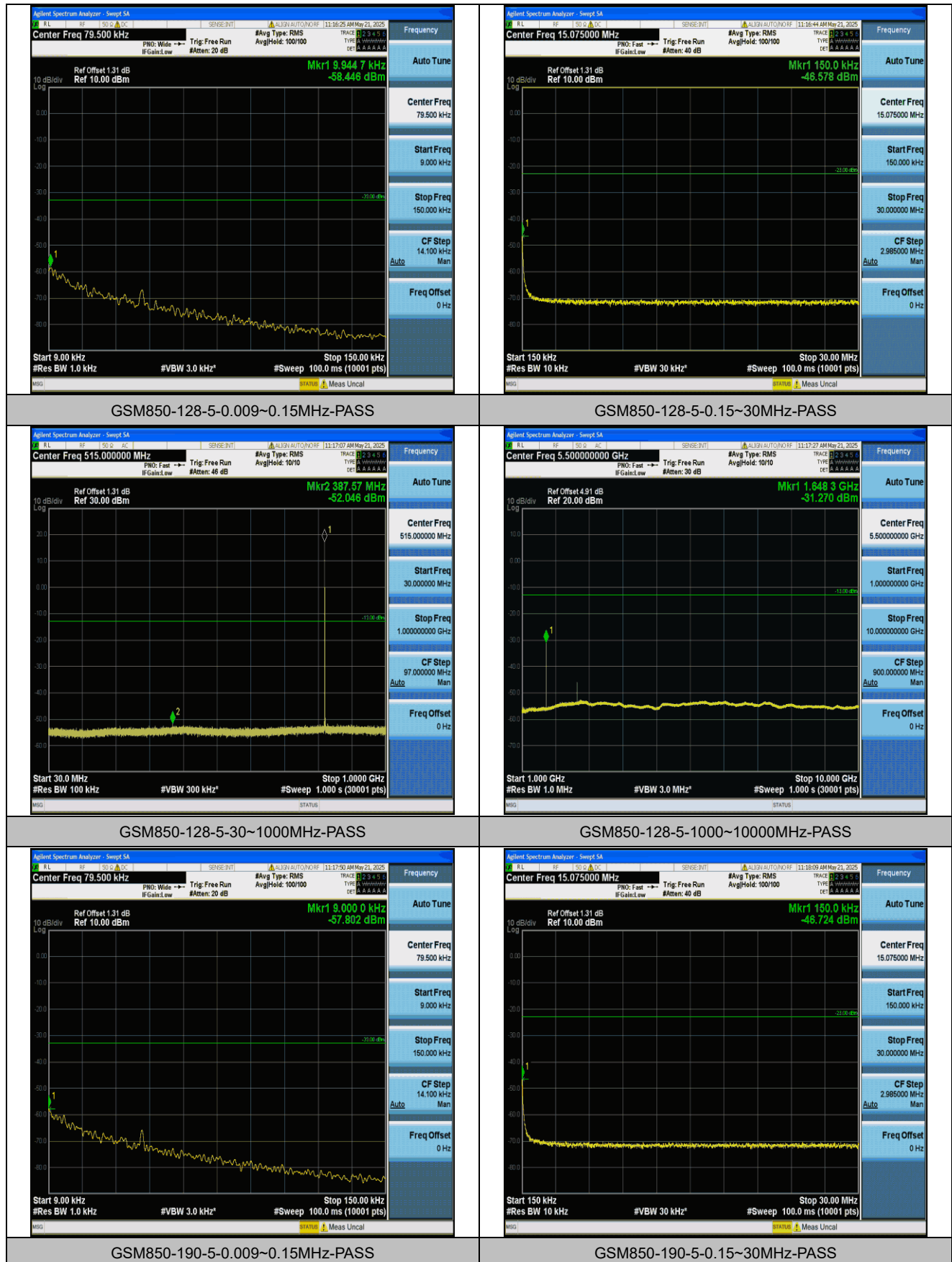
Test Graphs

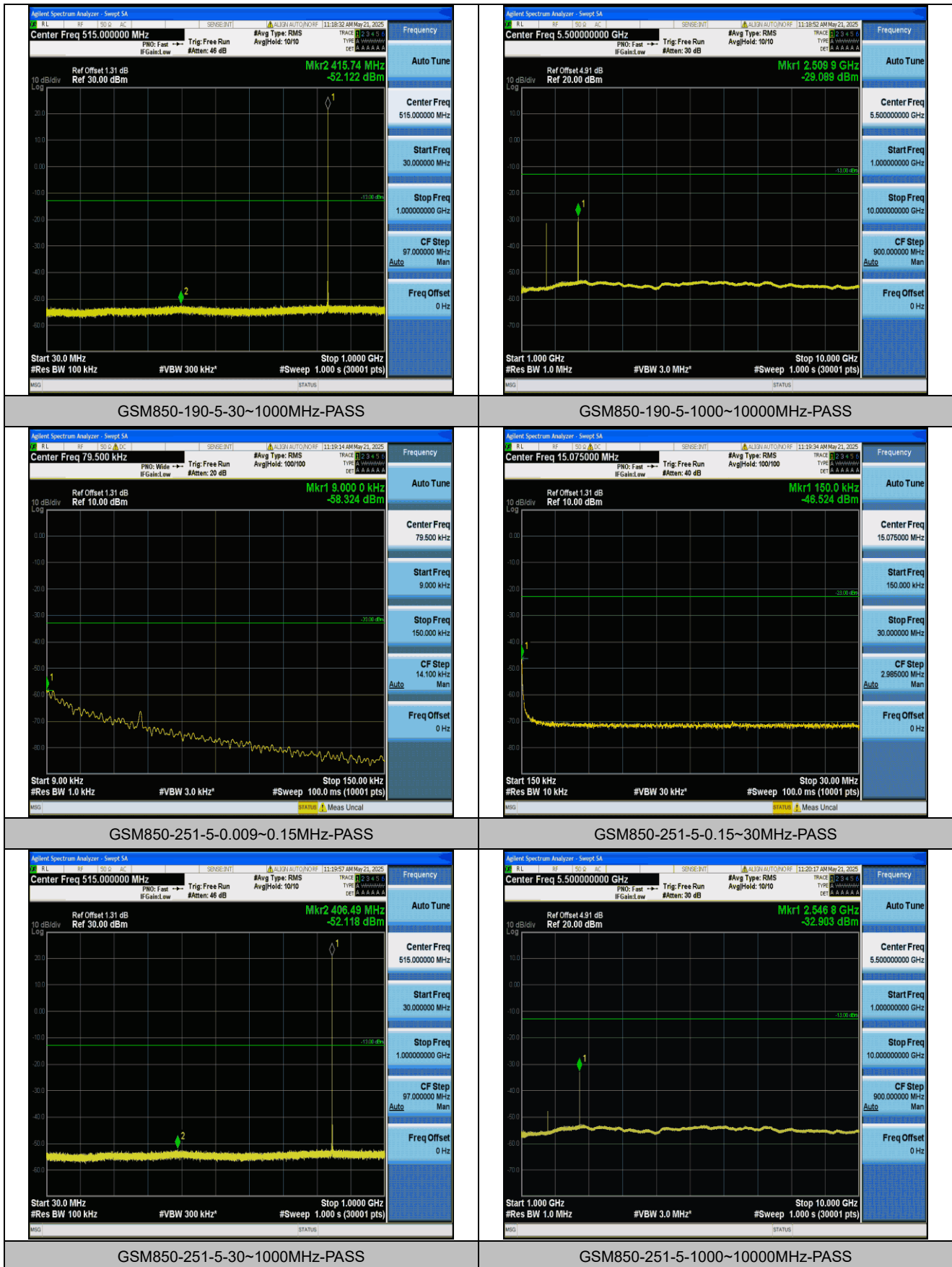


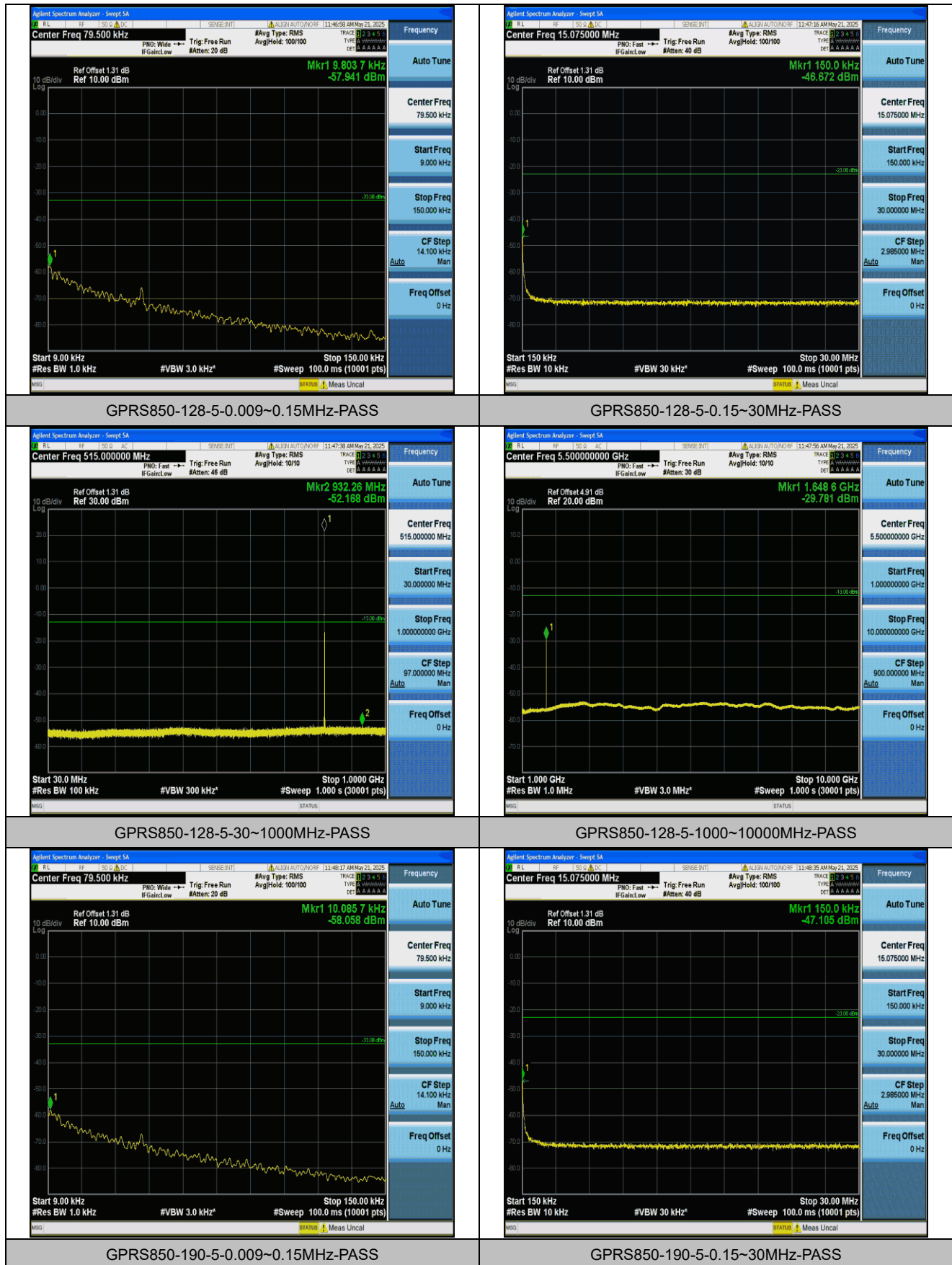


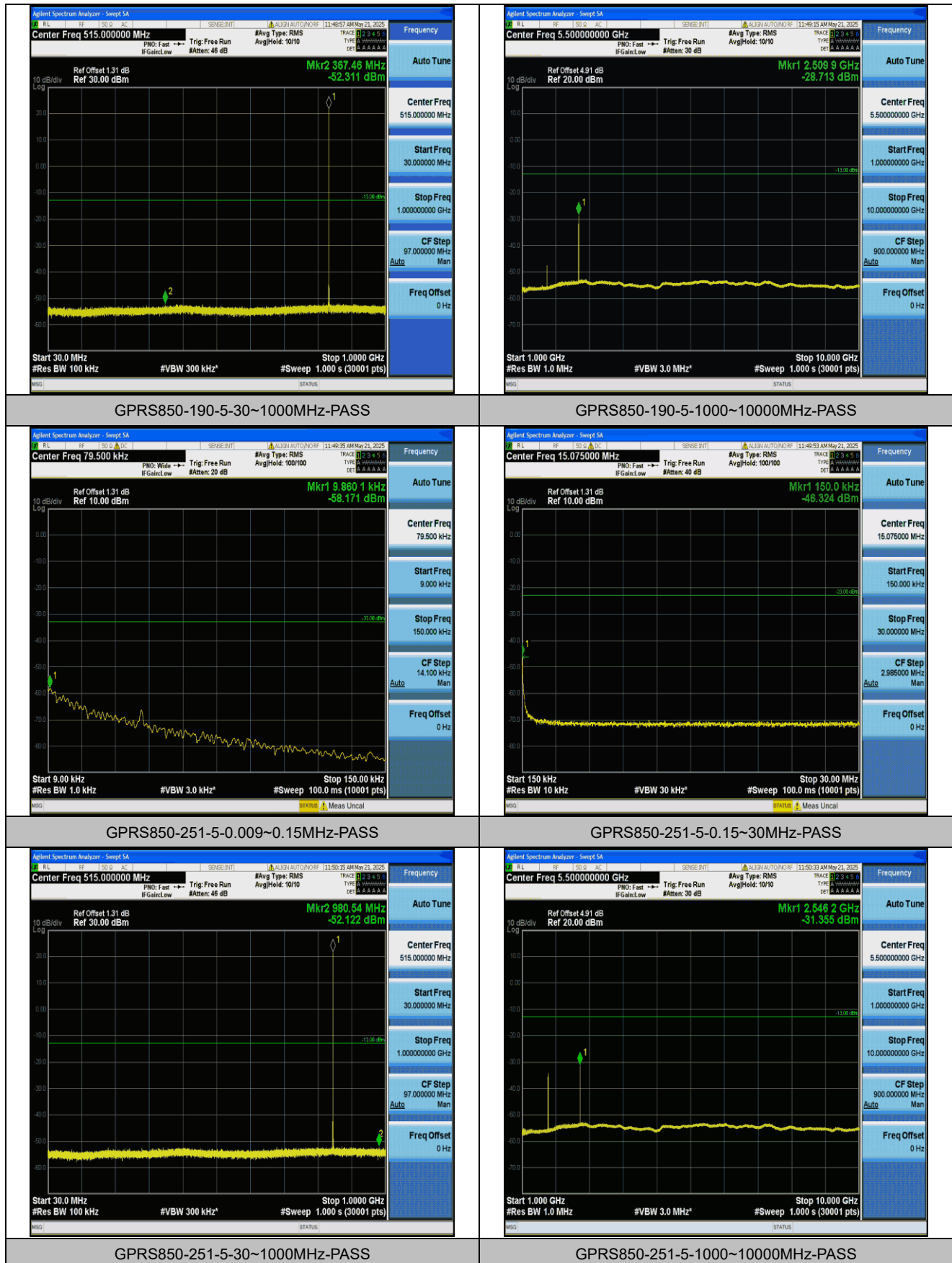
Conducted Spurious Emission

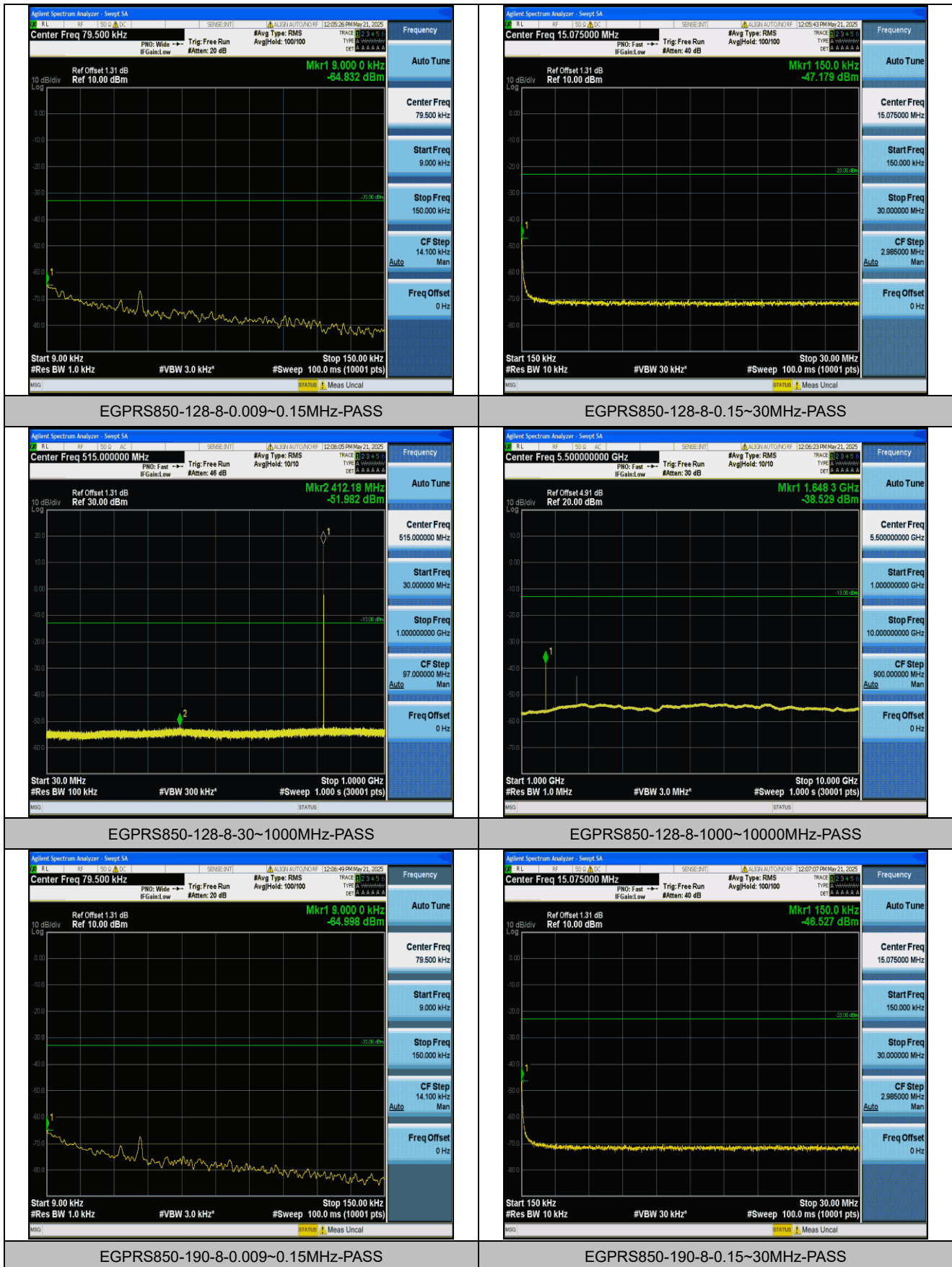
Test Graphs

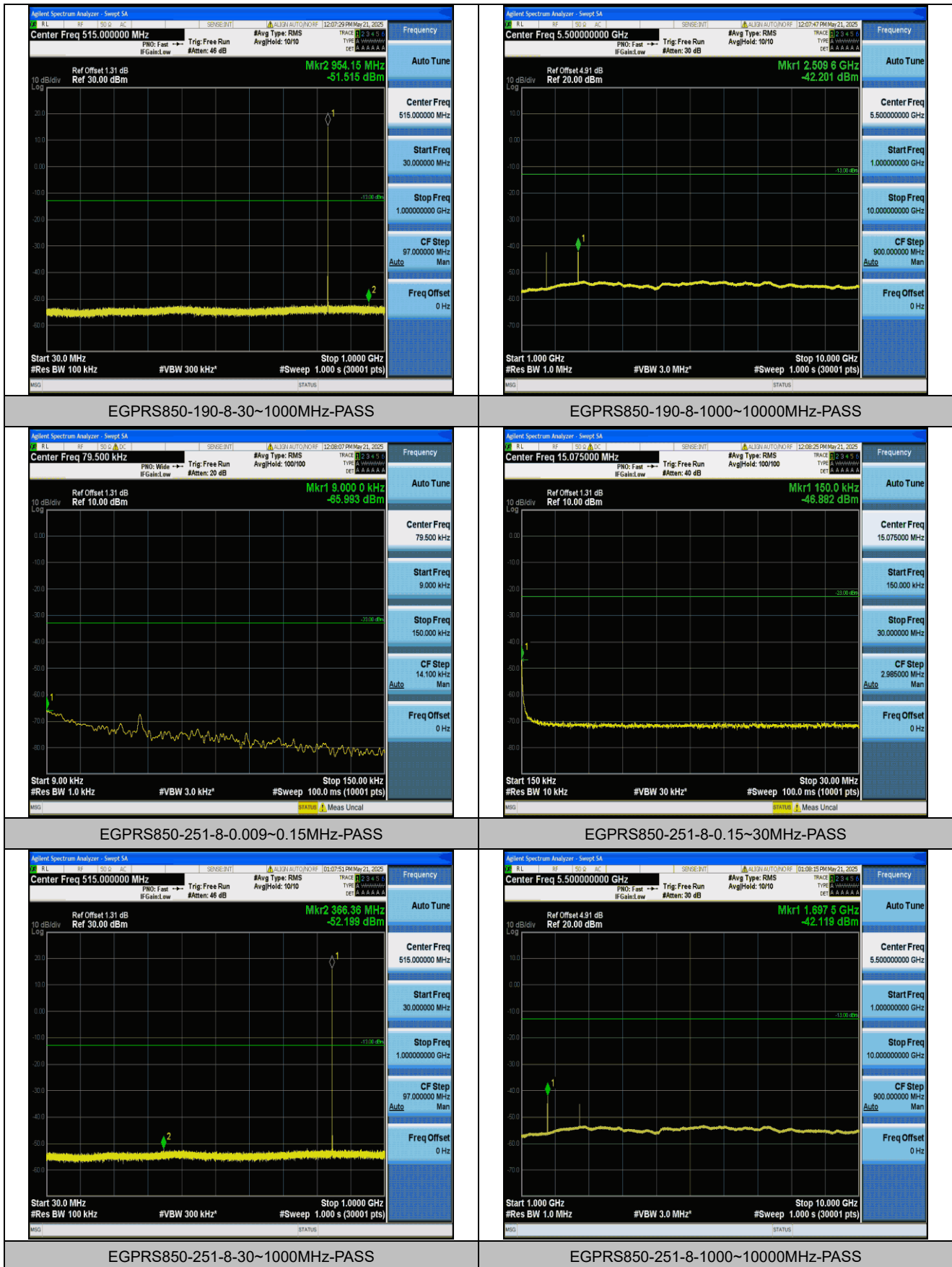






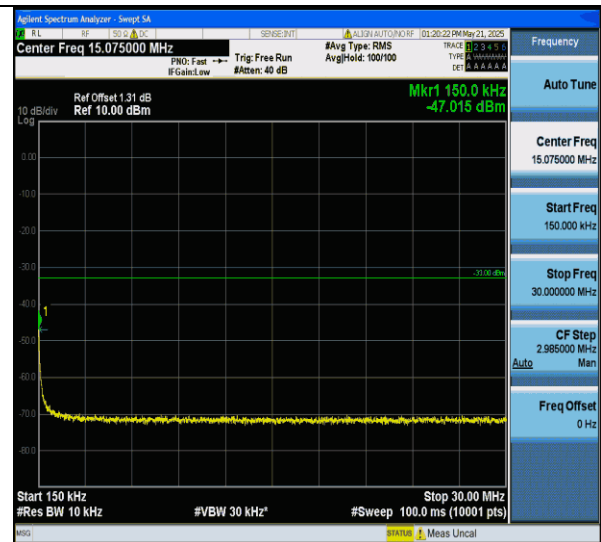








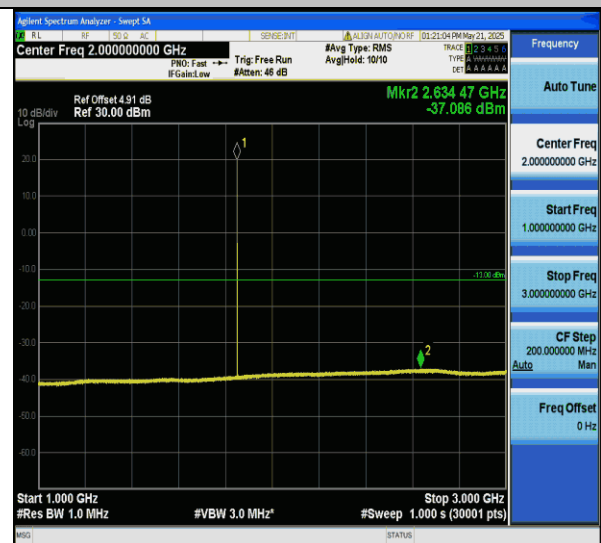
GSM1900-512-0-0.009~0.15MHz-PASS



GSM1900-512-0-0.15~30MHz-PASS



GSM1900-512-0-30~1000MHz-PASS



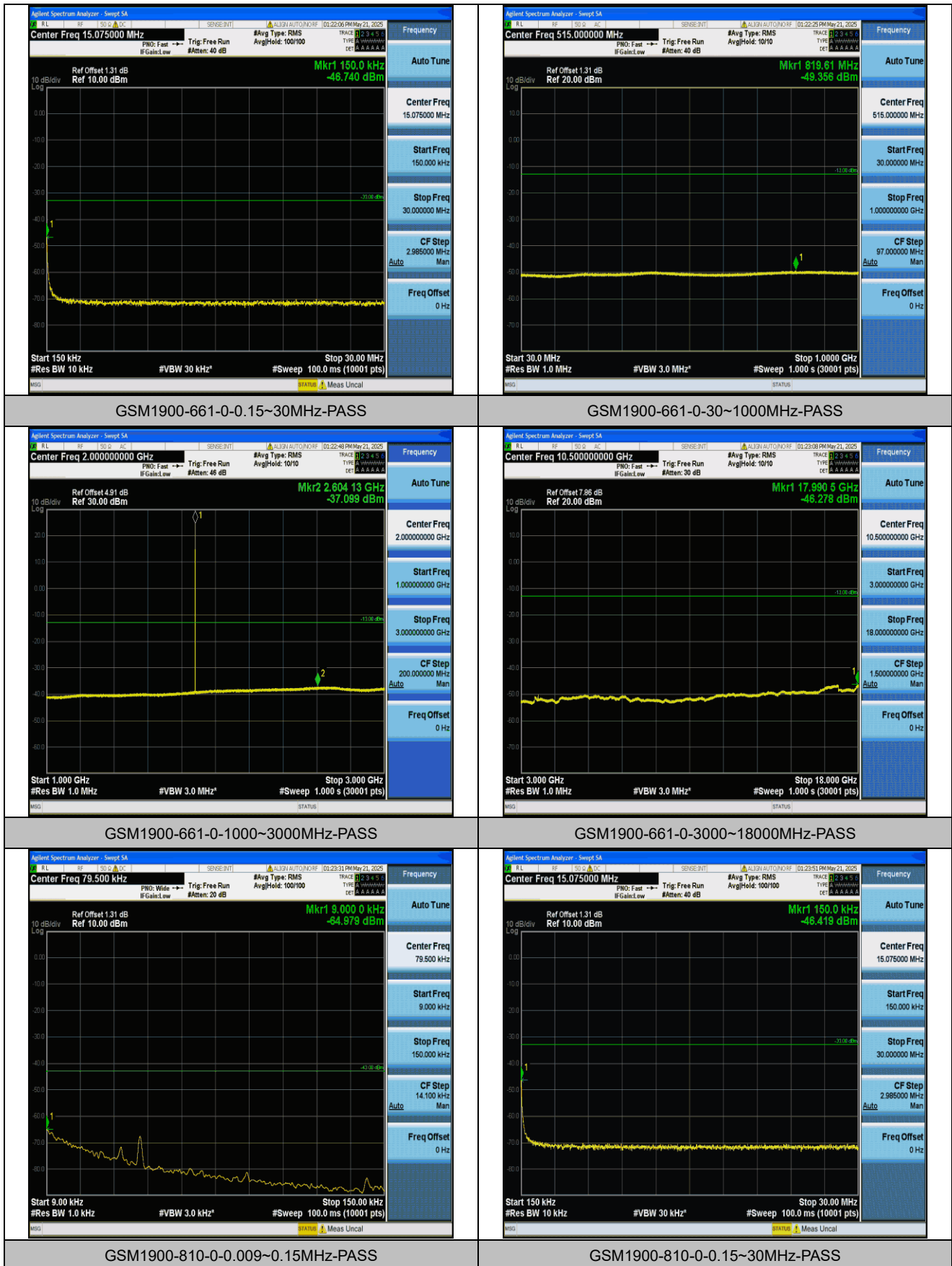
GSM1900-512-0-1000~3000MHz-PASS

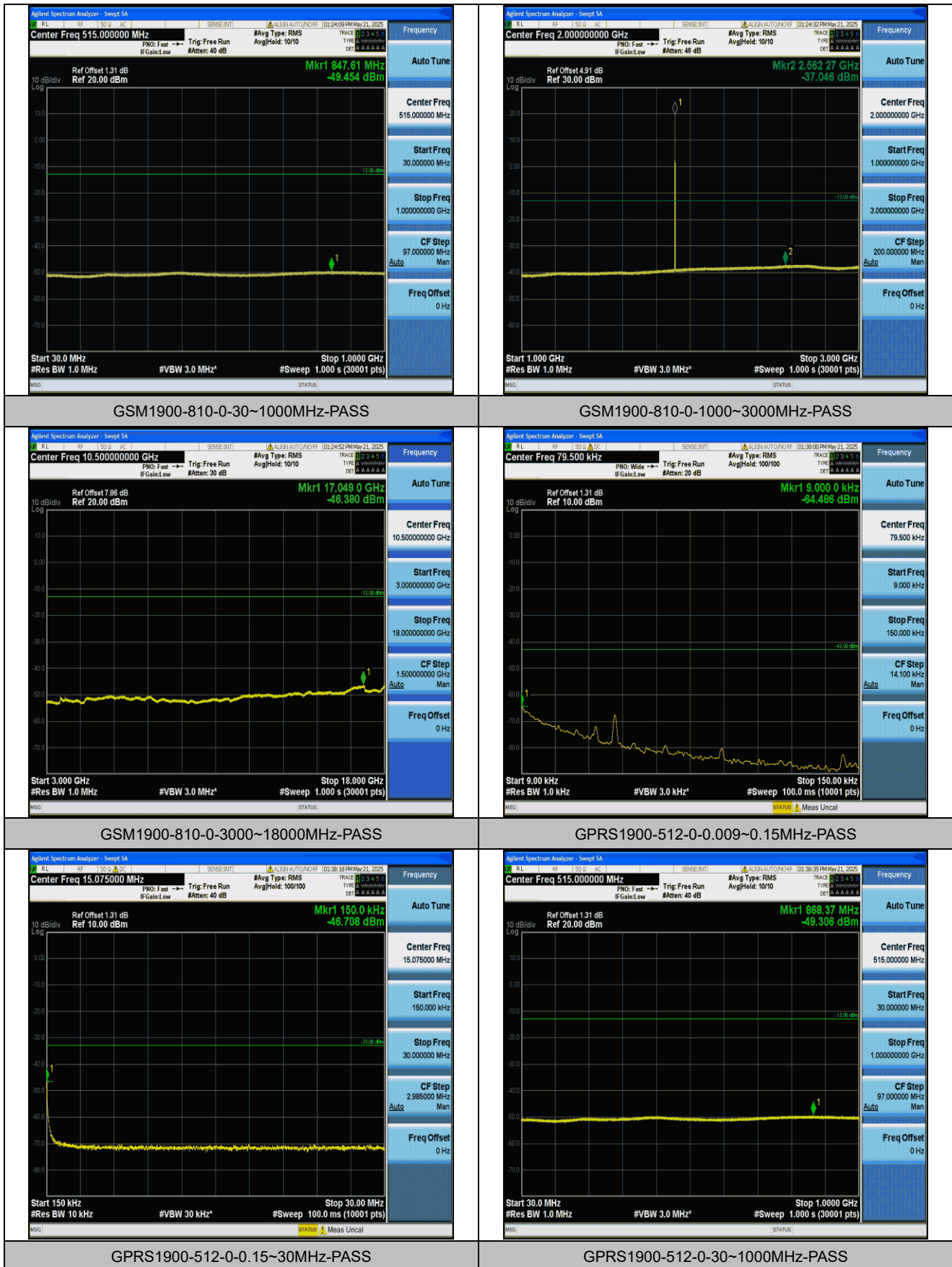


GSM1900-512-0-3000~18000MHz-PASS

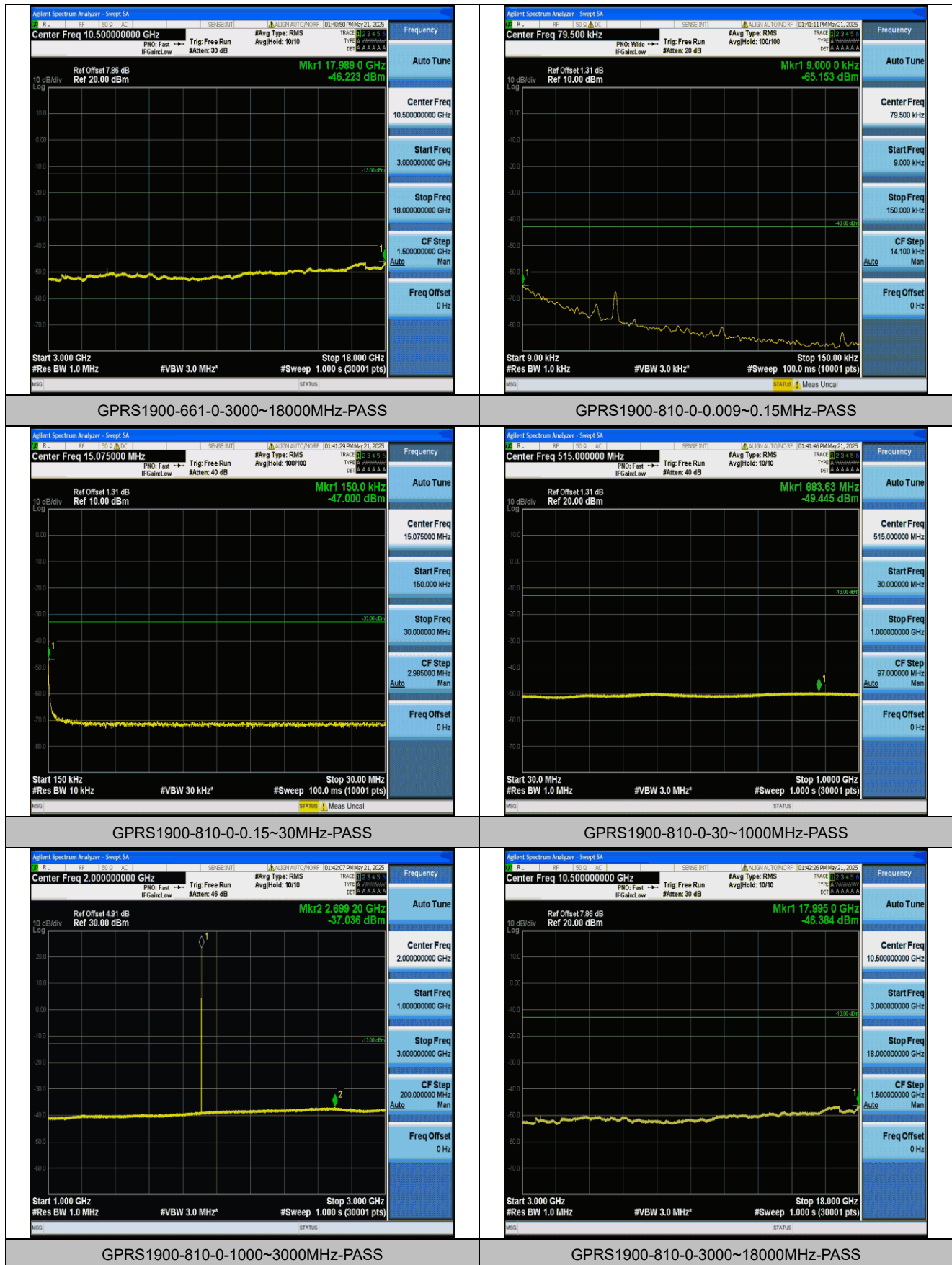


GSM1900-661-0-0.009~0.15MHz-PASS

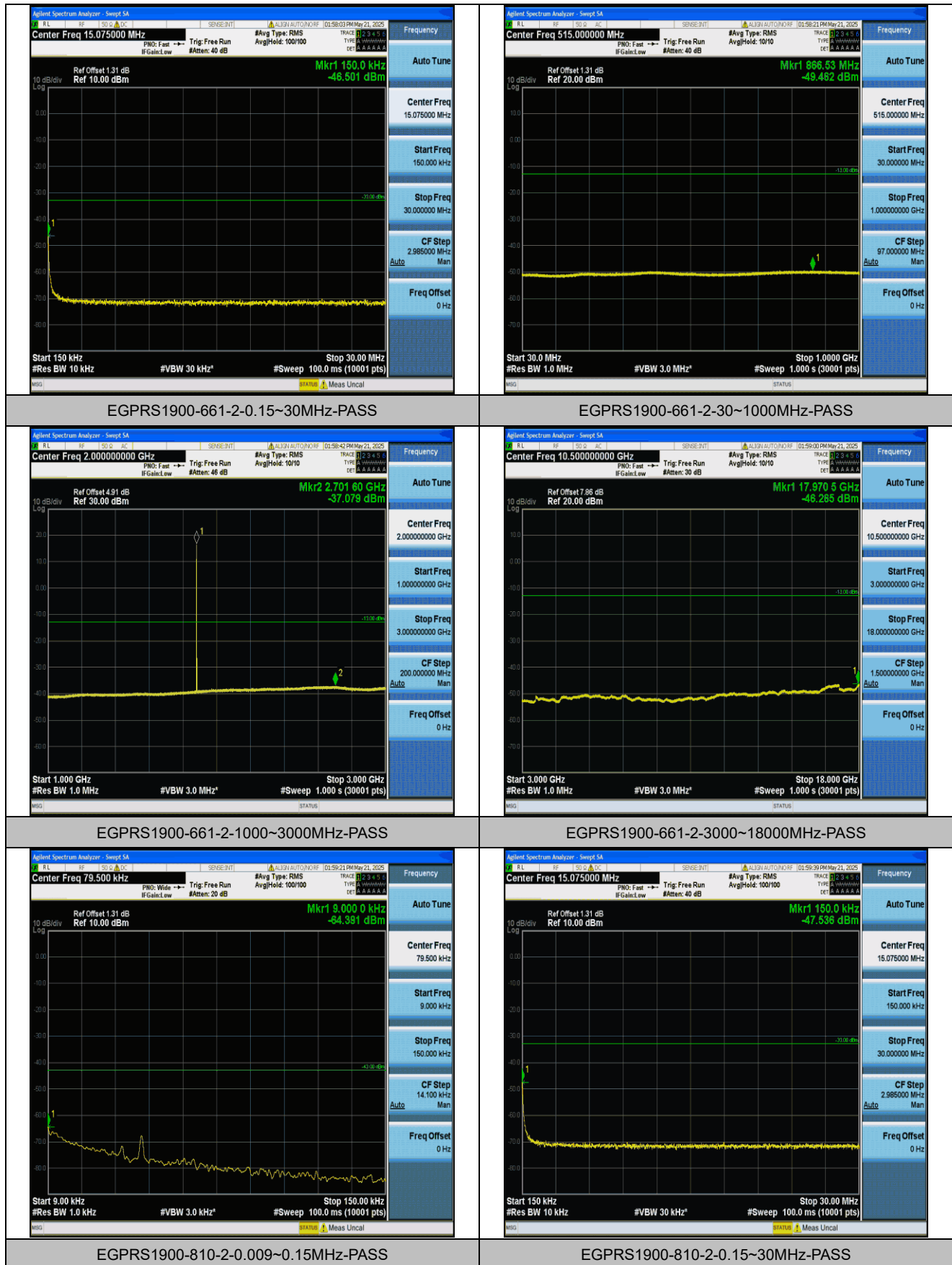


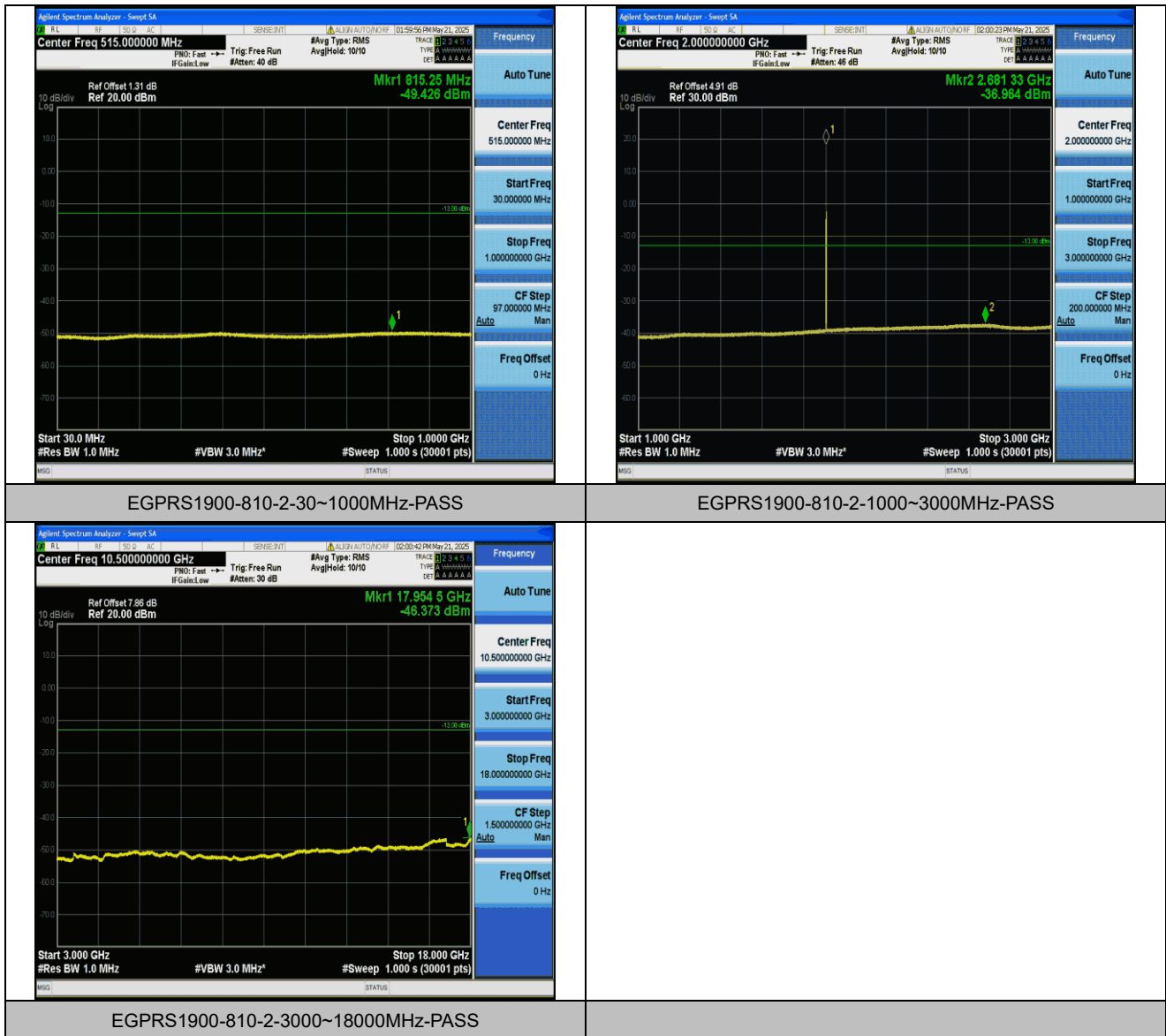












Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VN	NT	-1.65	-0.001972	±2.5	PASS
GSM850	190	VL	NT	2.68	0.003203	±2.5	PASS
GSM850	190	VH	NT	1.26	0.001506	±2.5	PASS
GPRS850	190	VN	NT	15.46	0.018480	±2.5	PASS
GPRS850	190	VL	NT	15.34	0.018336	±2.5	PASS
GPRS850	190	VH	NT	15.40	0.018408	±2.5	PASS
EGPRS850	190	VN	NT	20.21	0.024157	±2.5	PASS
EGPRS850	190	VL	NT	19.11	0.022842	±2.5	PASS
EGPRS850	190	VH	NT	17.79	0.021265	±2.5	PASS
GSM1900	661	VN	NT	-14.37	-0.007644	---	PASS
GSM1900	661	VL	NT	-12.30	-0.006543	---	PASS
GSM1900	661	VH	NT	-5.36	-0.002851	---	PASS
GPRS1900	661	VN	NT	7.20	0.003830	---	PASS
GPRS1900	661	VL	NT	6.88	0.003660	---	PASS
GPRS1900	661	VH	NT	5.52	0.002936	---	PASS
EGPRS1900	661	VN	NT	9.01	0.004793	---	PASS
EGPRS1900	661	VL	NT	4.84	0.002574	---	PASS
EGPRS1900	661	VH	NT	4.04	0.002149	---	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-1.55	-0.001853	±2.5	PASS
GSM850	190	NV	-20	-0.90	-0.001076	±2.5	PASS
GSM850	190	NV	-10	0.71	0.000849	±2.5	PASS
GSM850	190	NV	0	1.19	0.001422	±2.5	PASS
GSM850	190	NV	10	0.10	0.000120	±2.5	PASS
GSM850	190	NV	20	1.55	0.001853	±2.5	PASS
GSM850	190	NV	30	-1.07	-0.001279	±2.5	PASS
GSM850	190	NV	40	-3.36	-0.004016	±2.5	PASS
GSM850	190	NV	50	1.87	0.002235	±2.5	PASS
GPRS850	190	NV	-30	15.14	0.018097	±2.5	PASS
GPRS850	190	NV	-20	15.17	0.018133	±2.5	PASS
GPRS850	190	NV	-10	14.63	0.017487	±2.5	PASS
GPRS850	190	NV	0	15.46	0.018480	±2.5	PASS
GPRS850	190	NV	10	14.63	0.017487	±2.5	PASS
GPRS850	190	NV	20	14.50	0.017332	±2.5	PASS
GPRS850	190	NV	30	14.56	0.017404	±2.5	PASS
GPRS850	190	NV	40	14.53	0.017368	±2.5	PASS
GPRS850	190	NV	50	16.18	0.019340	±2.5	PASS
EGPRS850	190	NV	-30	17.31	0.020691	±2.5	PASS
EGPRS850	190	NV	-20	19.95	0.023847	±2.5	PASS
EGPRS850	190	NV	-10	21.44	0.025628	±2.5	PASS
EGPRS850	190	NV	0	20.57	0.024588	±2.5	PASS
EGPRS850	190	NV	10	18.60	0.022233	±2.5	PASS
EGPRS850	190	NV	20	20.15	0.024086	±2.5	PASS
EGPRS850	190	NV	30	19.73	0.023584	±2.5	PASS
EGPRS850	190	NV	40	20.15	0.024086	±2.5	PASS
EGPRS850	190	NV	50	20.86	0.024934	±2.5	PASS
GSM1900	661	NV	-30	-7.01	-0.003729	---	PASS
GSM1900	661	NV	-20	-9.07	-0.004824	---	PASS
GSM1900	661	NV	-10	-8.94	-0.004755	---	PASS
GSM1900	661	NV	0	-10.04	-0.005340	---	PASS
GSM1900	661	NV	10	-5.97	-0.003176	---	PASS
GSM1900	661	NV	20	-11.17	-0.005941	---	PASS
GSM1900	661	NV	30	-10.04	-0.005340	---	PASS
GSM1900	661	NV	40	-12.37	-0.006580	---	PASS
GSM1900	661	NV	50	-8.72	-0.004638	---	PASS
GPRS1900	661	NV	-30	3.94	0.002096	---	PASS
GPRS1900	661	NV	-20	4.46	0.002372	---	PASS
GPRS1900	661	NV	-10	8.56	0.004553	---	PASS
GPRS1900	661	NV	0	6.04	0.003213	---	PASS
GPRS1900	661	NV	10	6.75	0.003590	---	PASS

GPRS1900	661	NV	20	8.39	0.004463	---	PASS
GPRS1900	661	NV	30	1.71	0.000910	---	PASS
GPRS1900	661	NV	40	3.42	0.001819	---	PASS
GPRS1900	661	NV	50	6.84	0.003638	---	PASS
EGPRS1900	661	NV	-30	5.36	0.002851	---	PASS
EGPRS1900	661	NV	-20	3.81	0.002027	---	PASS
EGPRS1900	661	NV	-10	8.85	0.004707	---	PASS
EGPRS1900	661	NV	0	5.04	0.002681	---	PASS
EGPRS1900	661	NV	10	6.01	0.003197	---	PASS
EGPRS1900	661	NV	20	4.68	0.002489	---	PASS
EGPRS1900	661	NV	30	6.78	0.003606	---	PASS
EGPRS1900	661	NV	40	8.88	0.004723	---	PASS
EGPRS1900	661	NV	50	6.10	0.003245	---	PASS

~The End~