

Appendix for GSM

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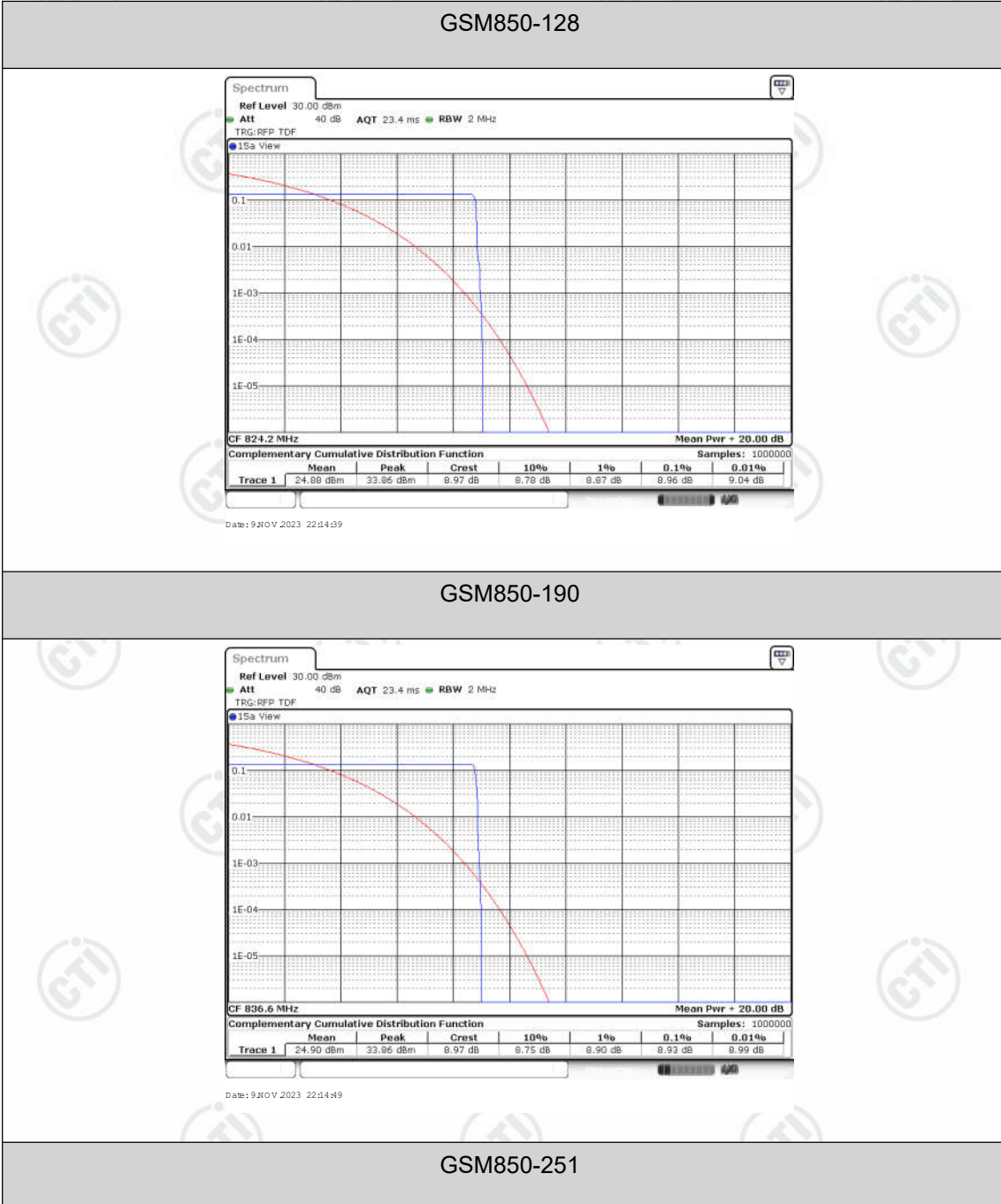
Appendix A: Effective (Isotropic) Radiated Power Output Data**Test Result**

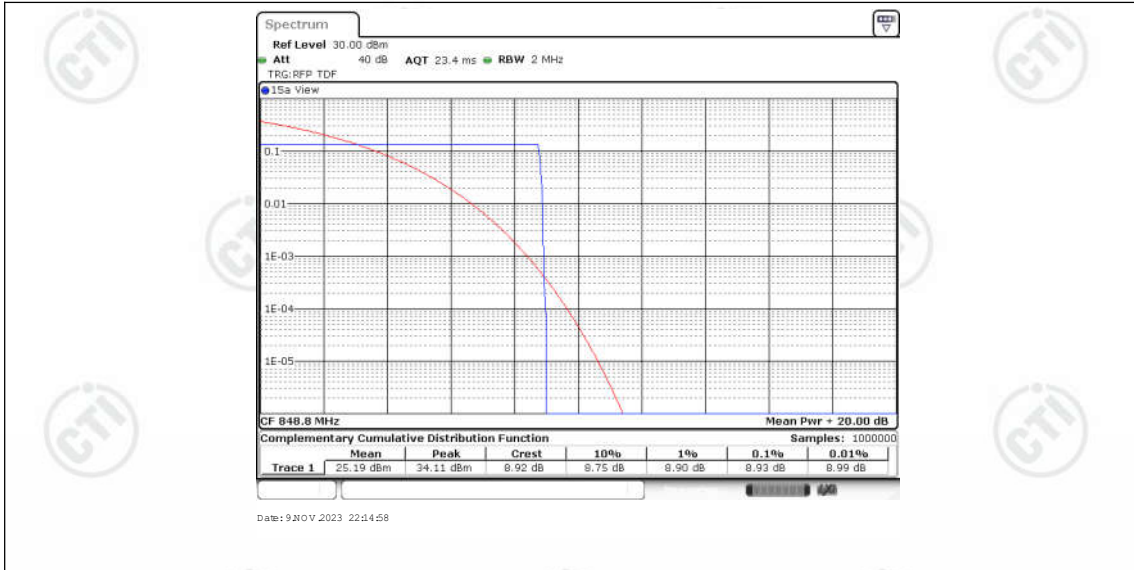
Band	Channel	PCL	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM850	128	3	34.07	38.5	PASS
GSM850	190	3	34.32	38.5	PASS
GSM850	251	3	34.60	38.5	PASS
GSM1900	512	0	31.53	33	PASS
GSM1900	661	0	30.82	33	PASS
GSM1900	810	0	30.84	33	PASS

Appendix B: Peak-to-Average Ratio(CCDF)**Test Result**

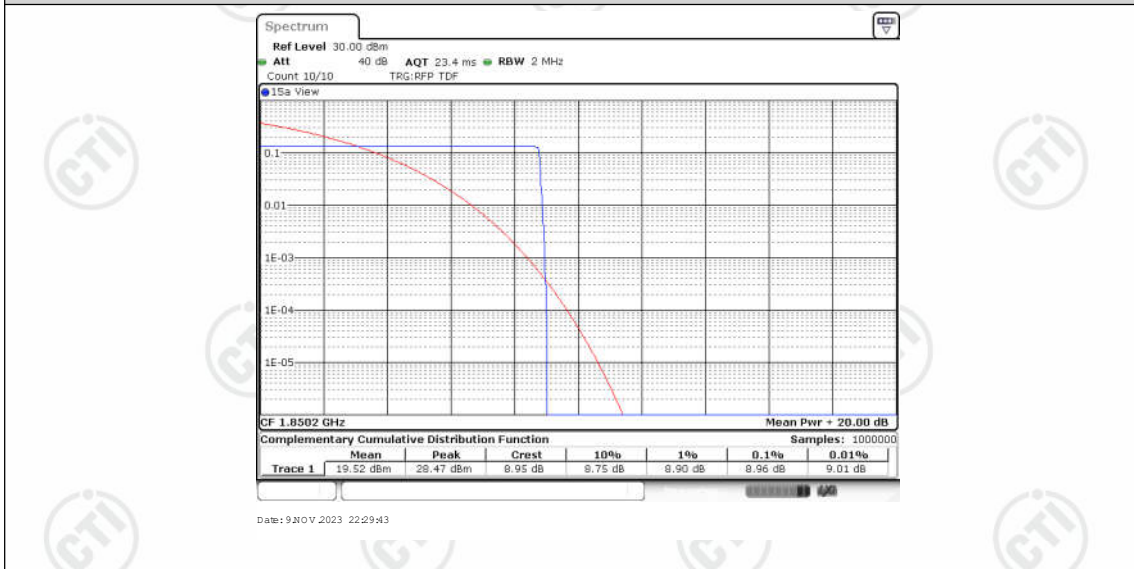
Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	128	3	8.96	13	PASS
GSM850	190	3	8.93	13	PASS
GSM850	251	3	8.93	13	PASS
GSM1900	512	0	8.96	13	PASS
GSM1900	661	0	9.86	13	PASS
GSM1900	810	0	9.04	13	PASS

Test Graphs

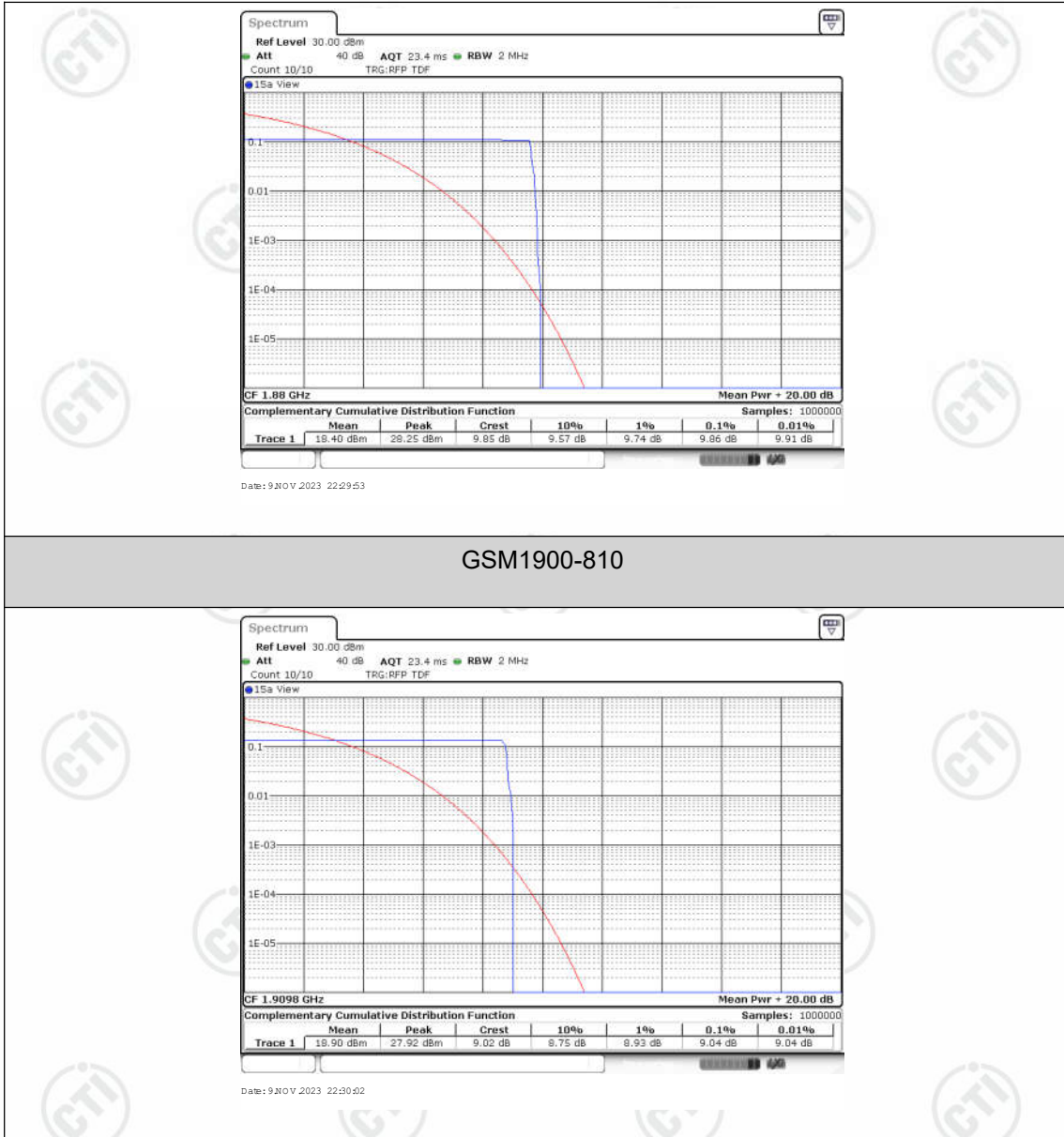




GSM1900-512



GSM1900-661

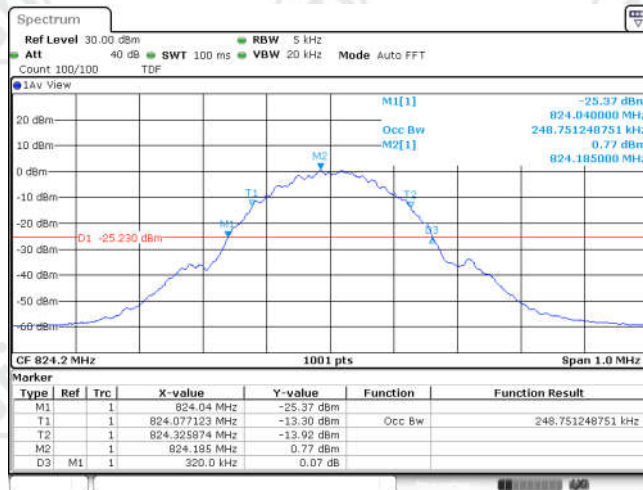


Appendix C: 26dB Bandwidth and Occupied Bandwidth**Test Result**

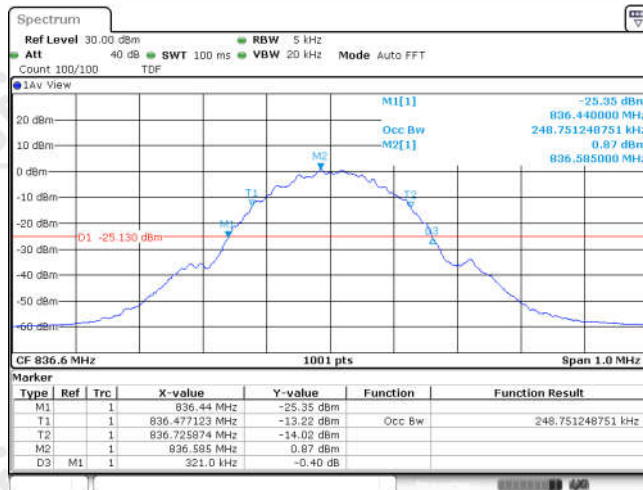
Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.249	0.320	---	PASS
GSM850	190	3	0.249	0.321	---	PASS
GSM850	251	3	0.249	0.321	---	PASS
GSM1900	512	0	0.248	0.321	---	PASS
GSM1900	661	0	0.248	0.321	---	PASS
GSM1900	810	0	0.248	0.321	---	PASS

Test Graphs

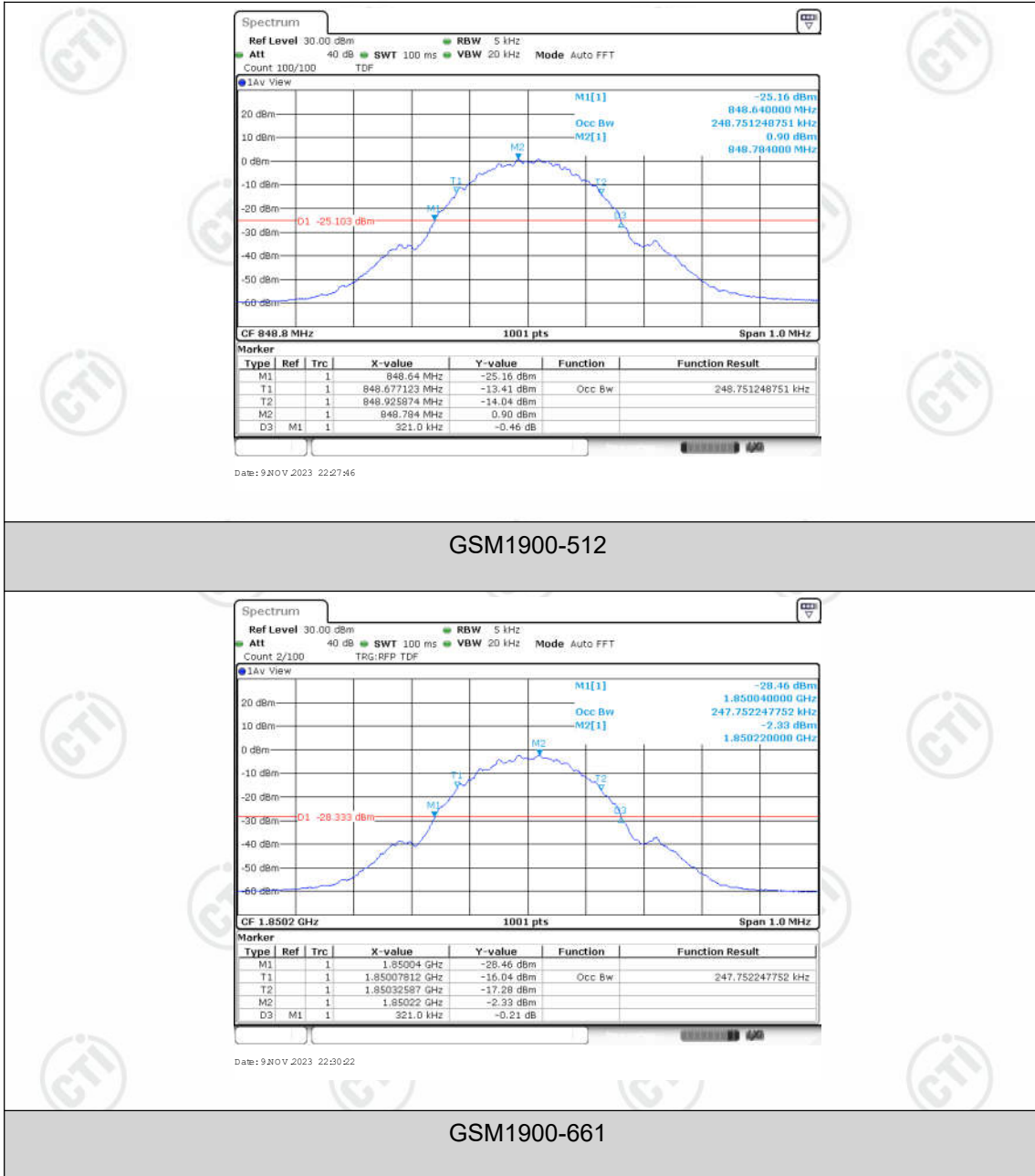
GSM850-128

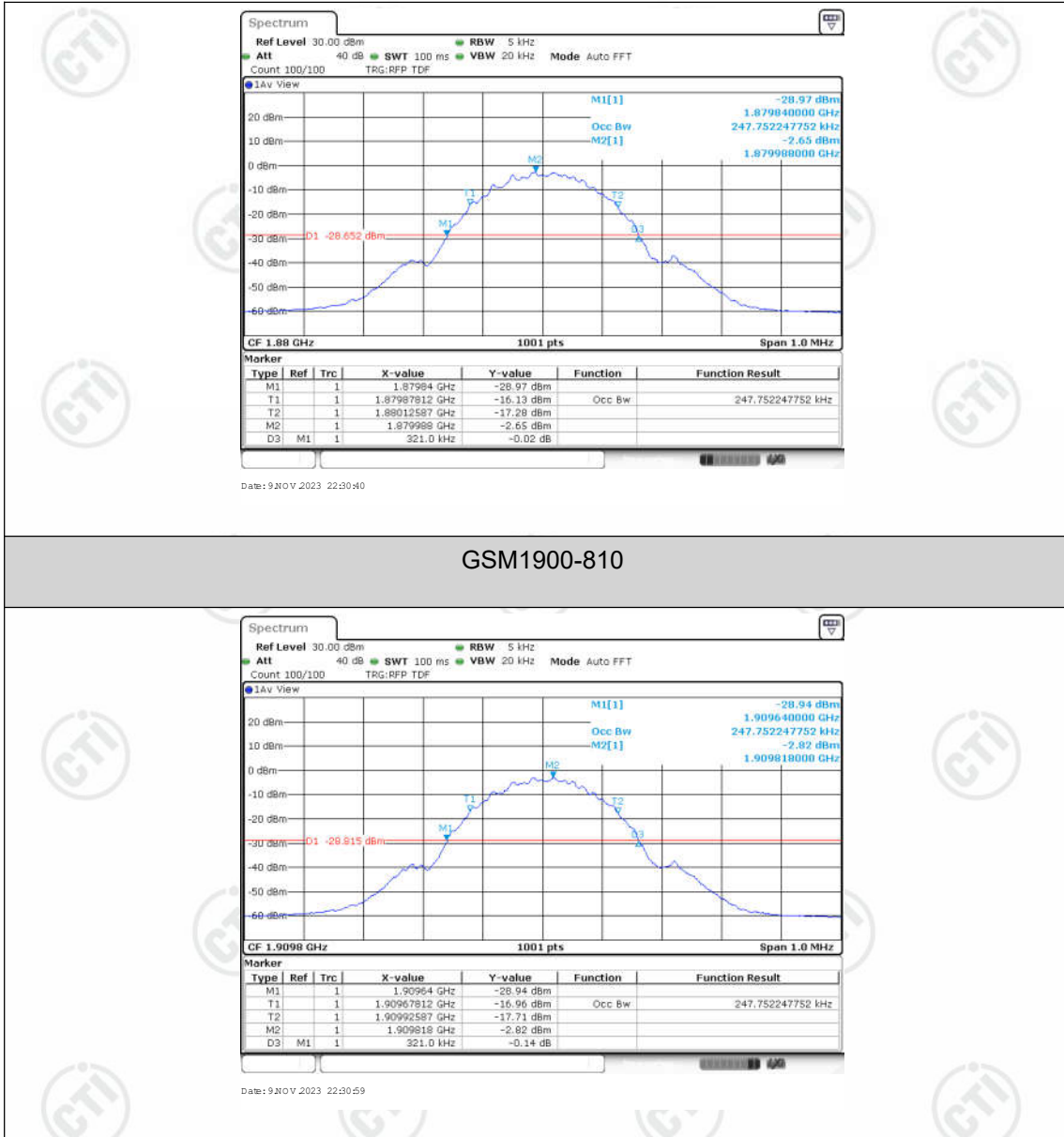


GSM850-190



GSM850-251

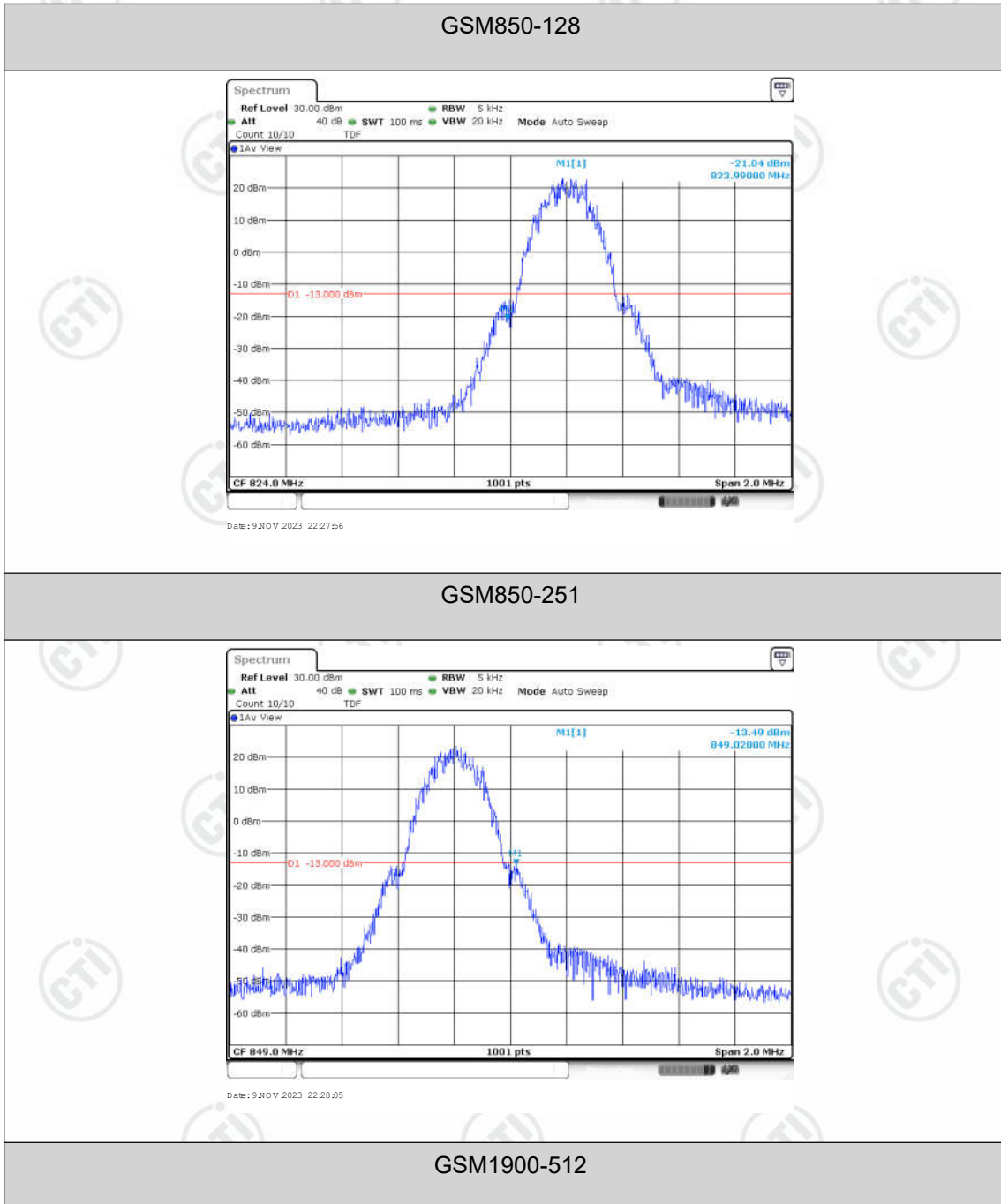


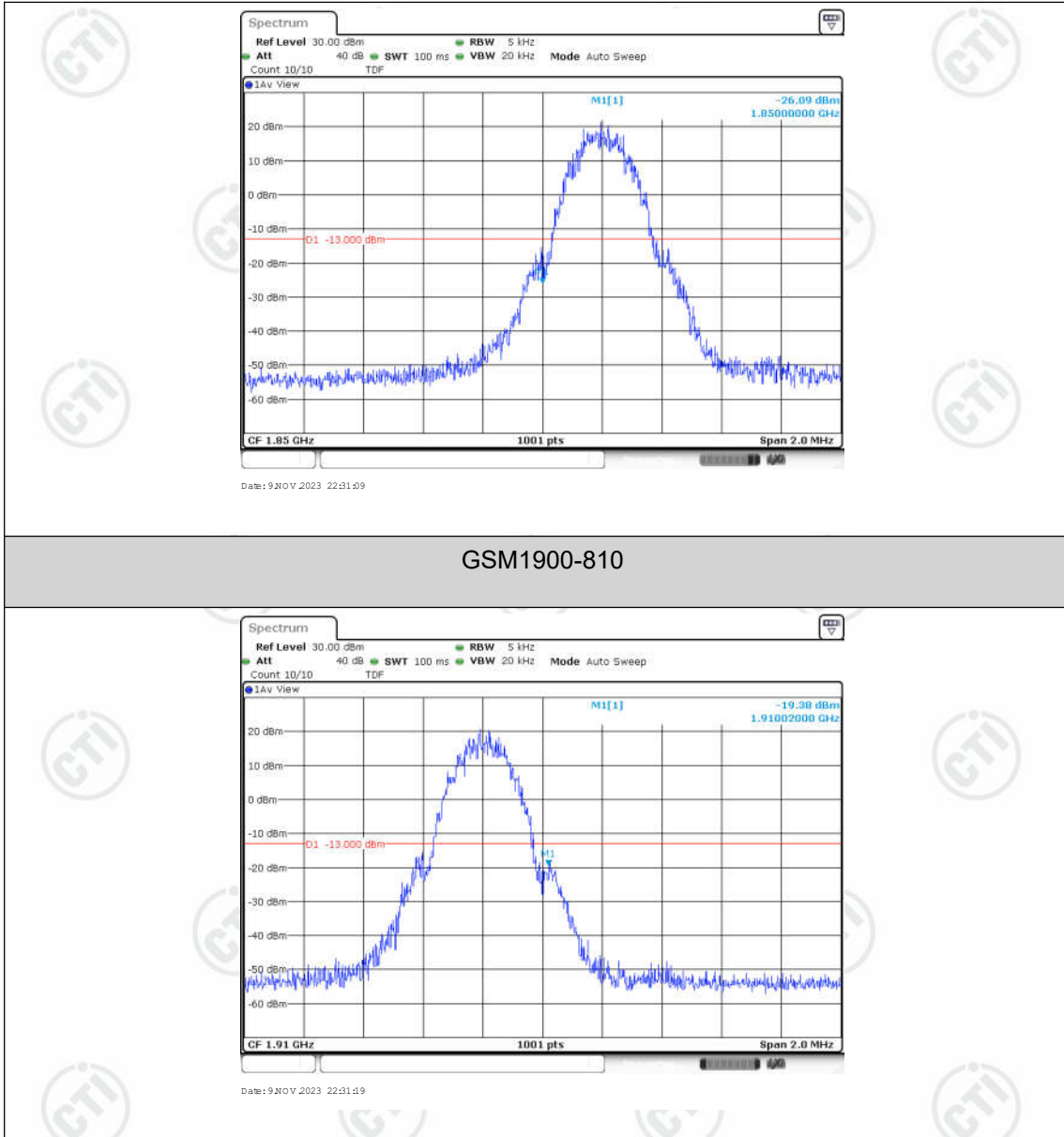


Appendix D: Band Edge**Test Result**

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.99	-15.03	-13	PASS
GSM850	251	3	849.02	-13.49	-13	PASS
GSM1900	512	0	1850.00	-15.31	-13	PASS
GSM1900	810	0	1910.02	-18.45	-13	PASS

Test Graphs





GSM1900-810

Appendix E: Conducted Spurious Emission

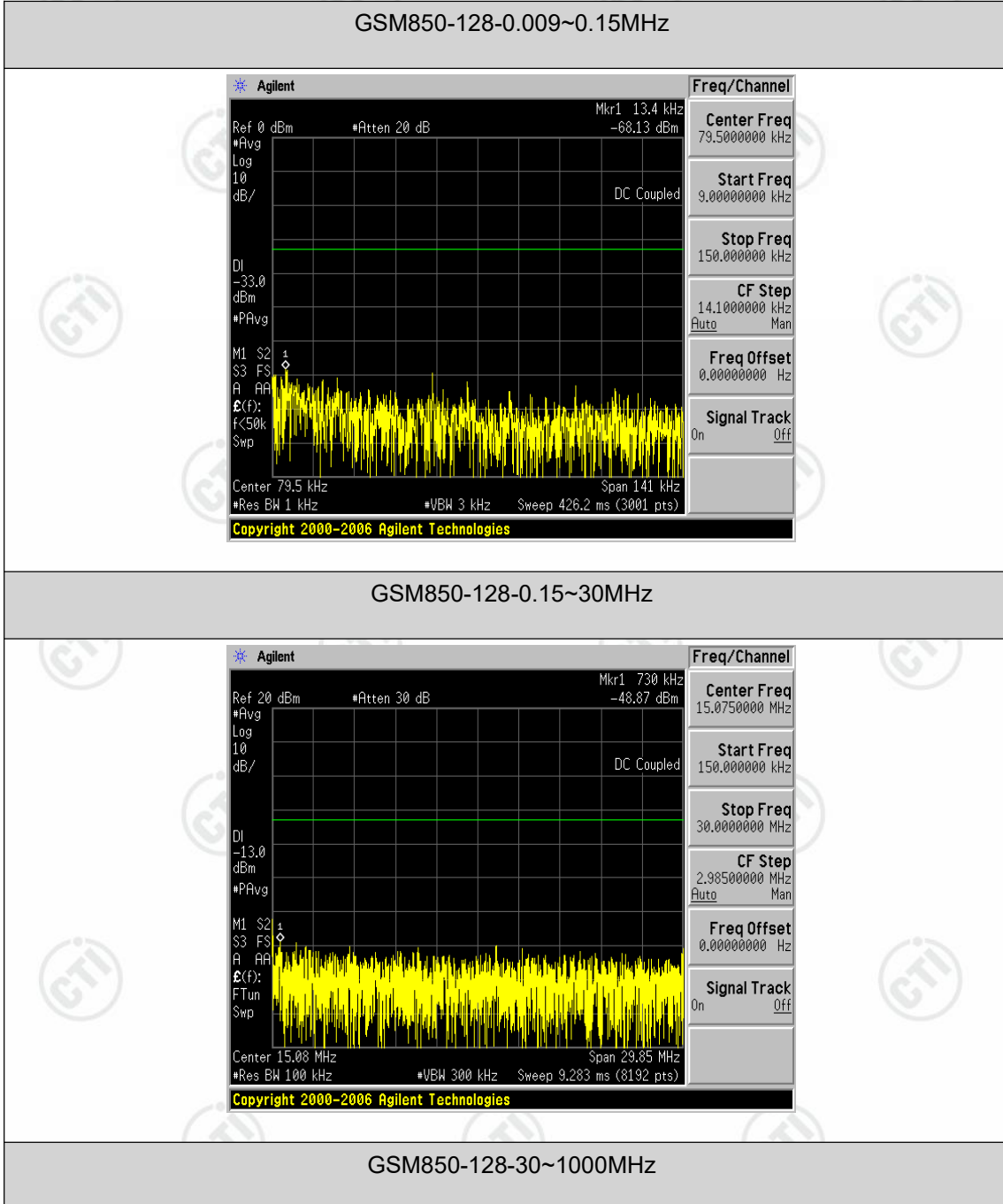
Test Result

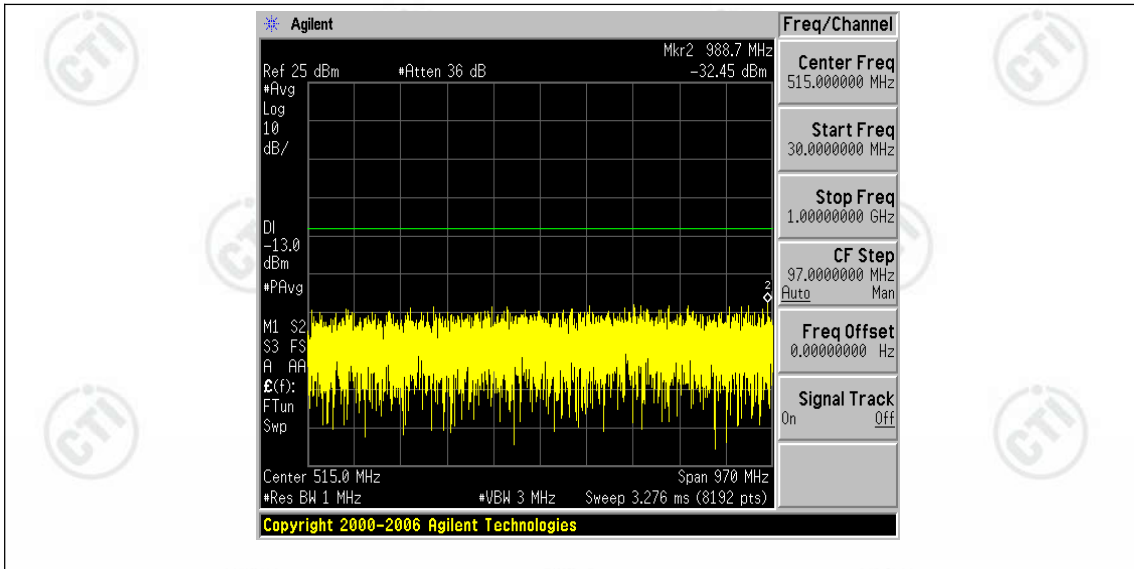
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15M Hz	0.01	-68.13	-33	PASS
GSM850	128	3	0.15~30MHz	0.73	-48.87	-13	PASS
GSM850	128	3	30~1000MHz	988.7	-32.45	-13	PASS
GSM850	128	3	1000~3000MHz	2862	-38.29	-13	PASS
GSM850	128	3	3000~10000 MHz	7882	-49.18	-13	PASS
GSM850	190	3	0.009~0.15M Hz	0.13	-67.6	-33	PASS
GSM850	190	3	0.15~30MHz	0.21	-47.7	-13	PASS
GSM850	190	3	30~1000MHz	719.1	-31.94	-13	PASS
GSM850	190	3	1000~3000MHz	1698	-38.06	-13	PASS
GSM850	190	3	3000~10000 MHz	7895	-49.27	-13	PASS
GSM850	251	3	0.009~0.15M Hz	0.06	-66.4	-33	PASS

GSM850	251	3	0.15~30MHz	4.02	-48.85	-13	PASS
GSM850	251	3	30~1000MHz z	397.3	-32.65	-13	PASS
GSM850	251	3	1000~3000MHz Hz	1698	-34.87	-13	PASS
GSM850	251	3	3000~10000 MHz	7859	-49.12	-13	PASS
GSM1900	512	0	0.009~0.15MHz Hz	0.01	-65.25	-43	PASS
GSM1900	512	0	0.15~30MHz	0.26	-48.19	-23	PASS
GSM1900	512	0	30~1000MHz z	848.4	-31.98	-13	PASS
GSM1900	512	0	1000~3000MHz Hz	2856	-38.28	-13	PASS
GSM1900	512	0	3000~10000 MHz	7900	-49.26	-13	PASS
GSM1900	512	0	10000~20000 MHz	19800	-42.02	-13	PASS
GSM1900	661	0	0.009~0.15MHz Hz	0.01	-67.29	-43	PASS
GSM1900	661	0	0.15~30MHz	3.17	-47.92	-23	PASS
GSM1900	661	0	30~1000MHz z	539	-30.8	-13	PASS
GSM1900	661	0	1000~3000MHz Hz	2856	-38.28	-13	PASS
GSM1900	661	0	3000~10000 MHz	5730	-46.81	-13	PASS

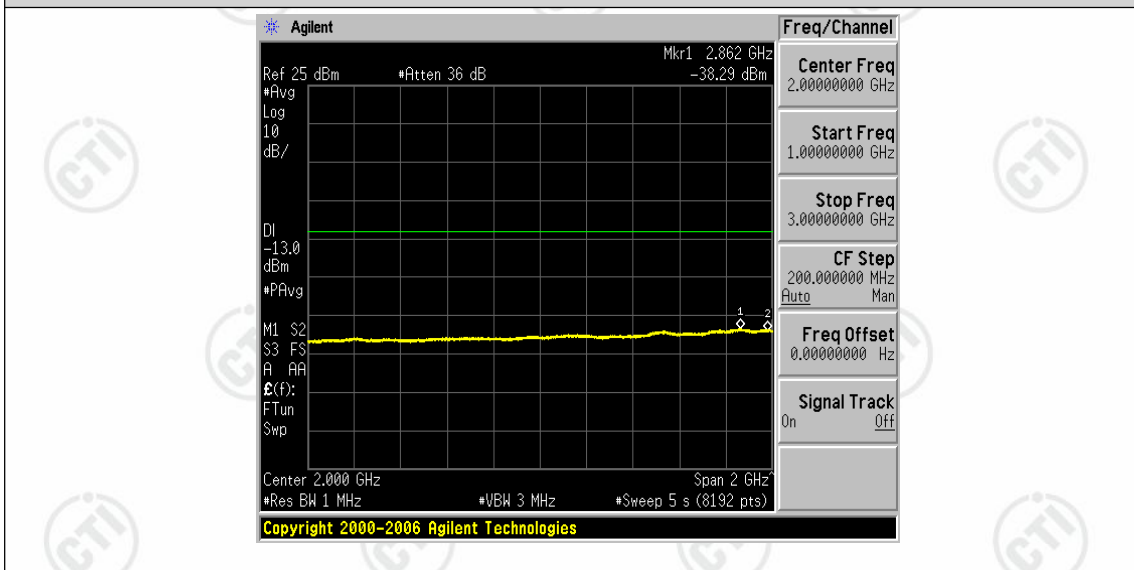
GSM1900	661	0	10000~20000MHz	19880	-41.99	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.02	-67.15	-43	PASS
GSM1900	810	0	0.15~30MHz	9.89	-49.04	-23	PASS
GSM1900	810	0	30~1000MHz	928.2	-32.09	-13	PASS
GSM1900	810	0	1000~3000MHz	2866	-38.3	-13	PASS
GSM1900	810	0	3000~10000MHz	7887	-49.12	-13	PASS
GSM1900	810	0	10000~20000MHz	19900	-42	-13	PASS

Test Graphs

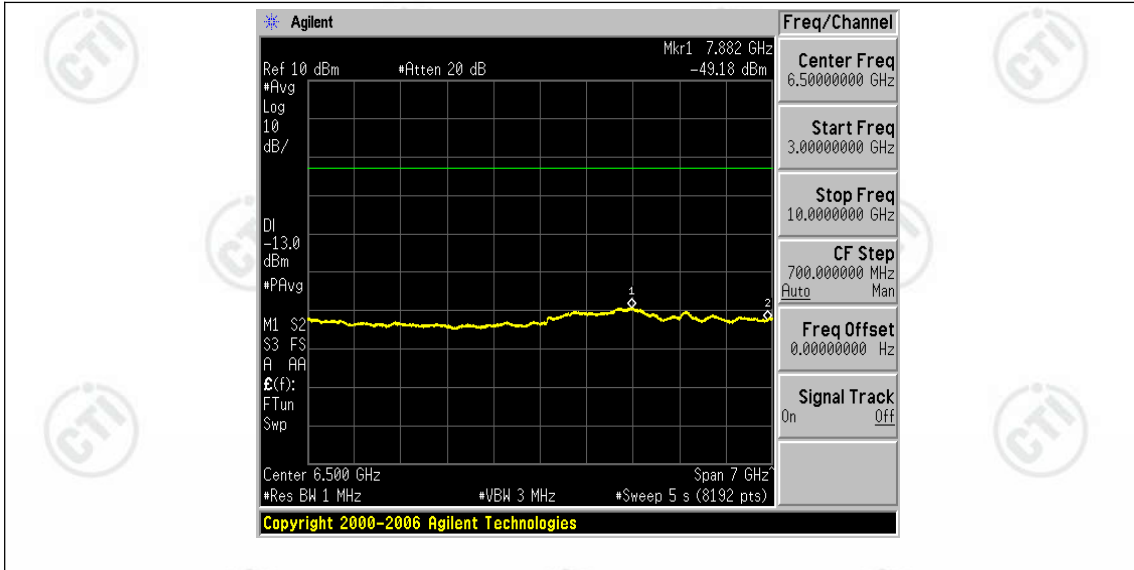




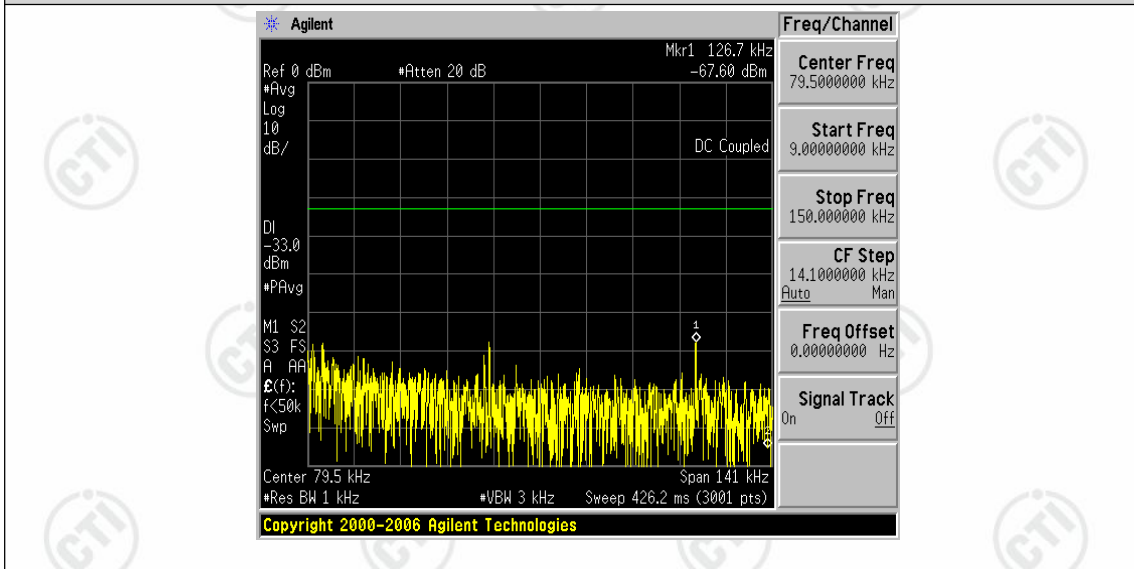
GSM850-128-1000~3000MHz



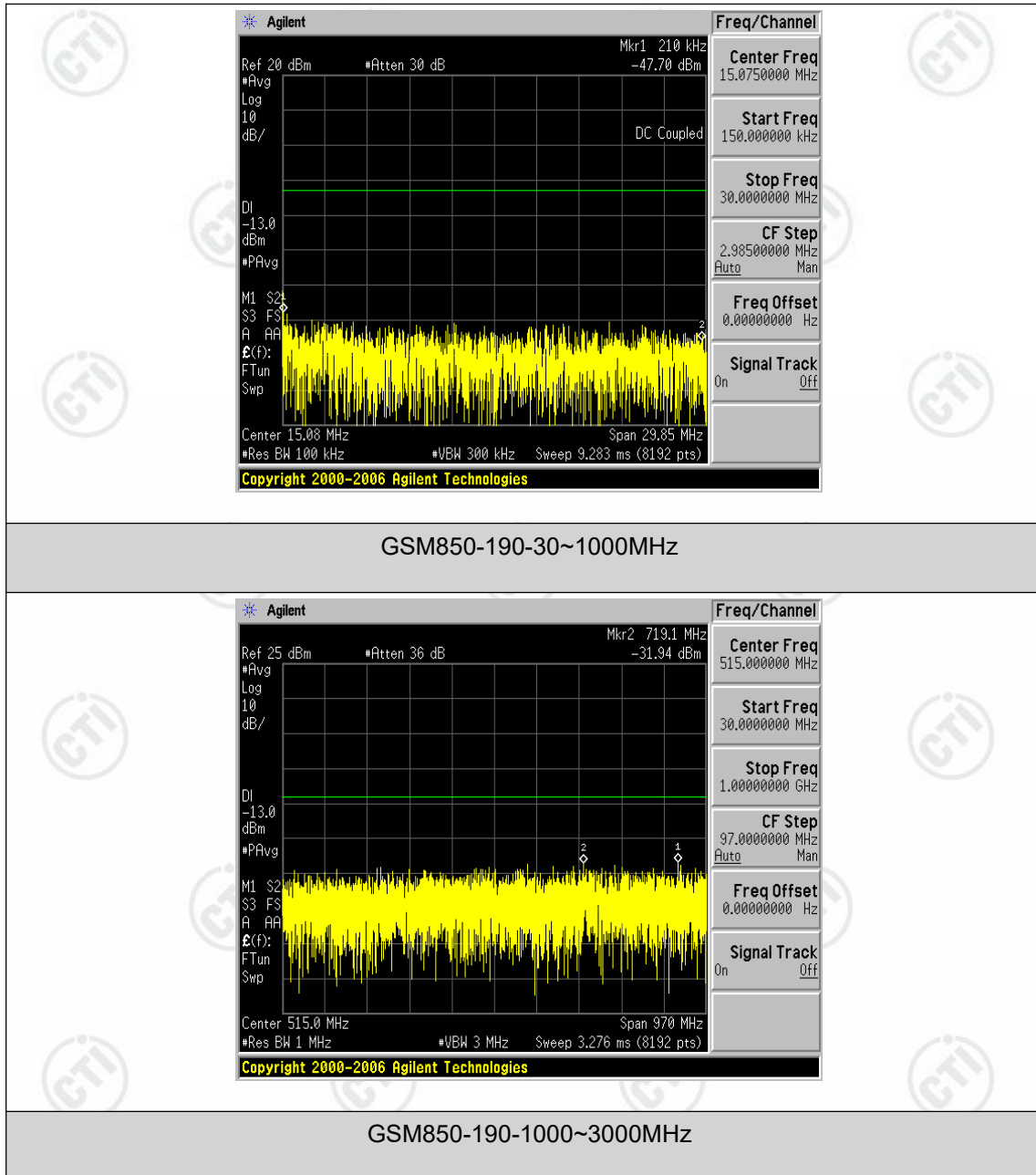
GSM850-128-3000~10000MHz

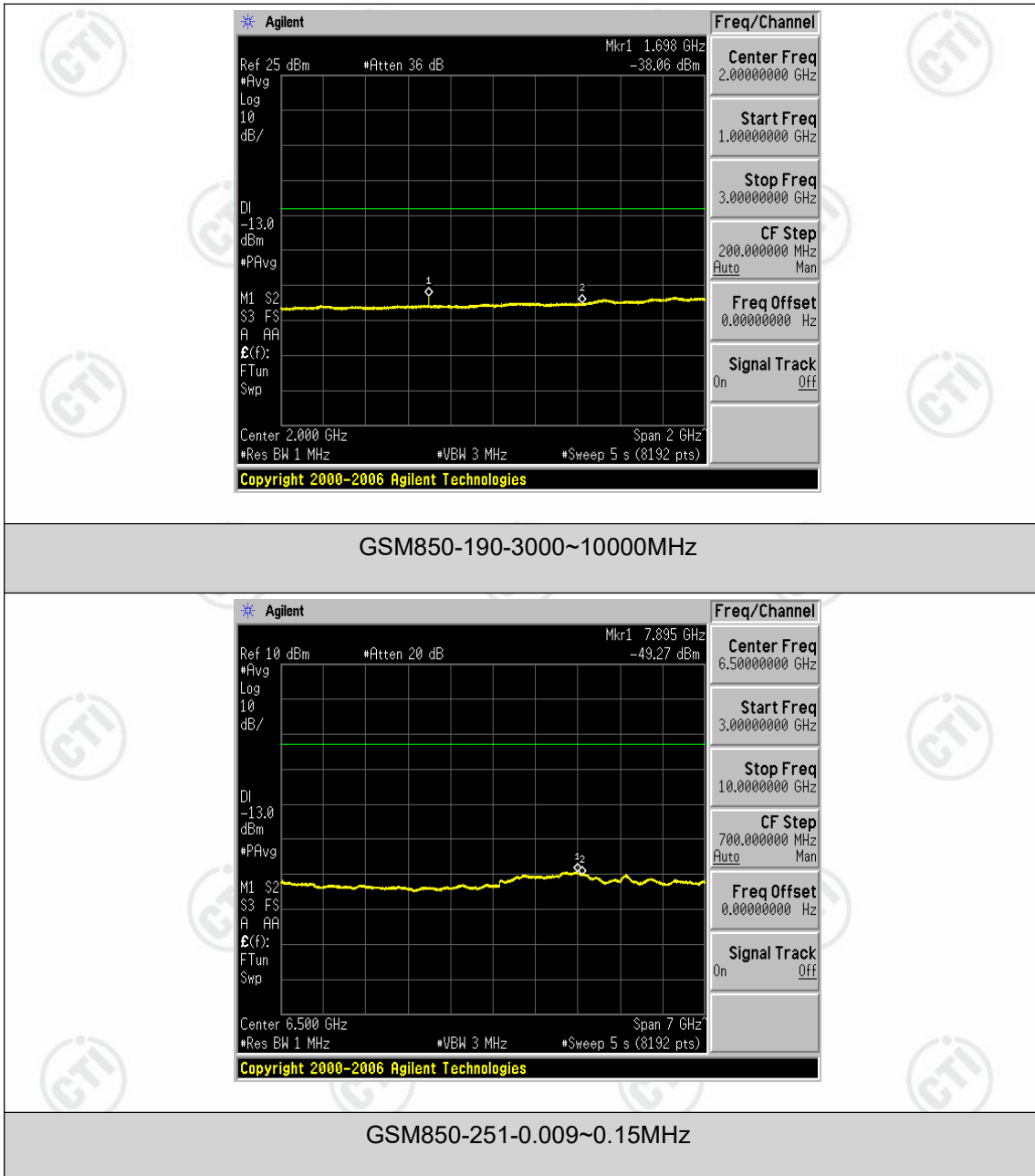


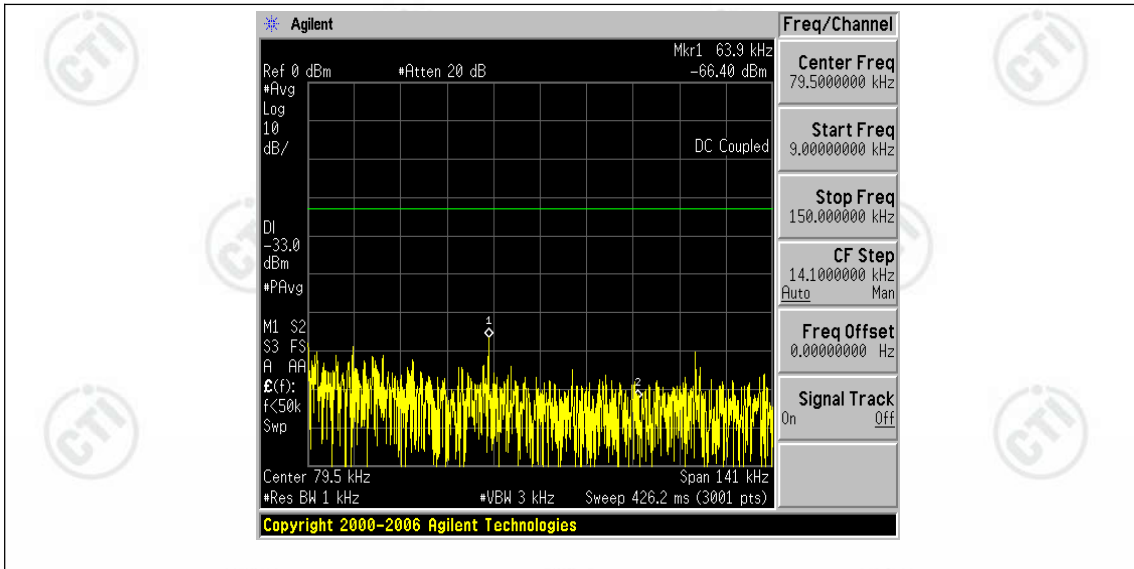
GSM850-190-0.009~0.15MHz



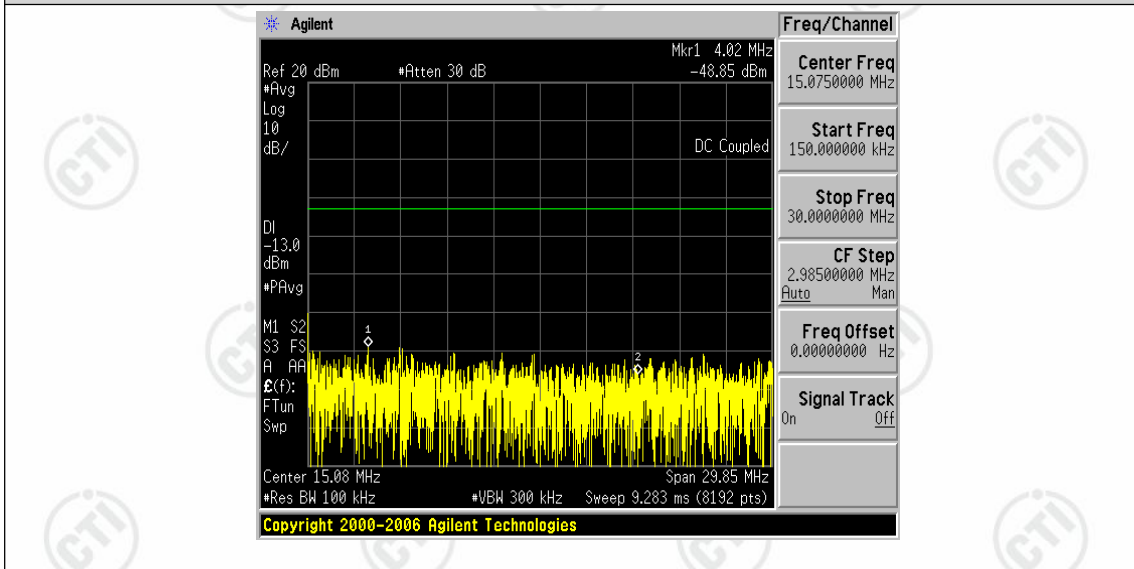
GSM850-190-0.15~30MHz



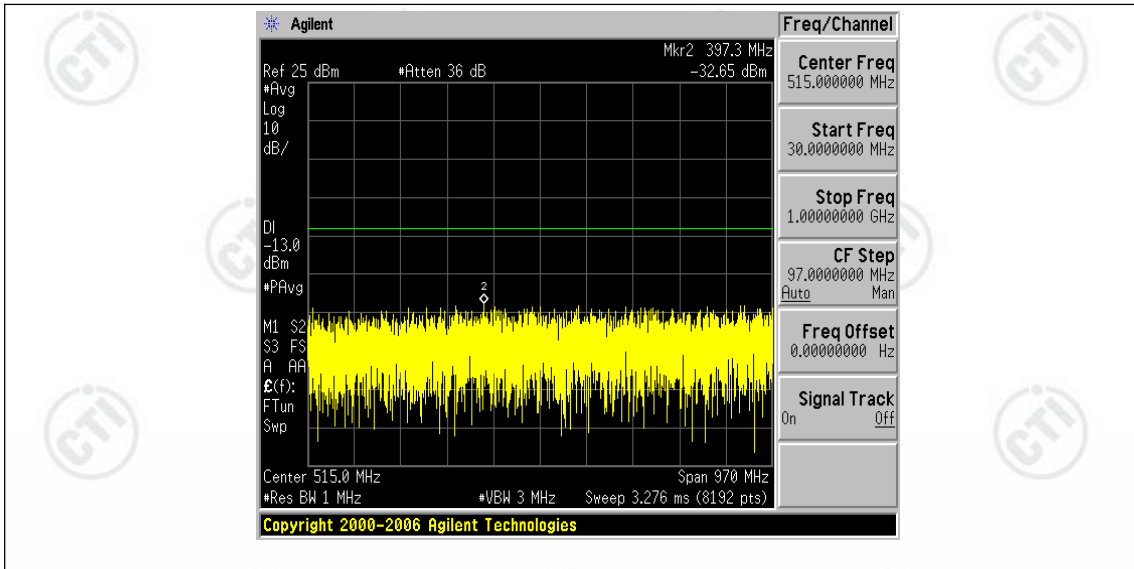




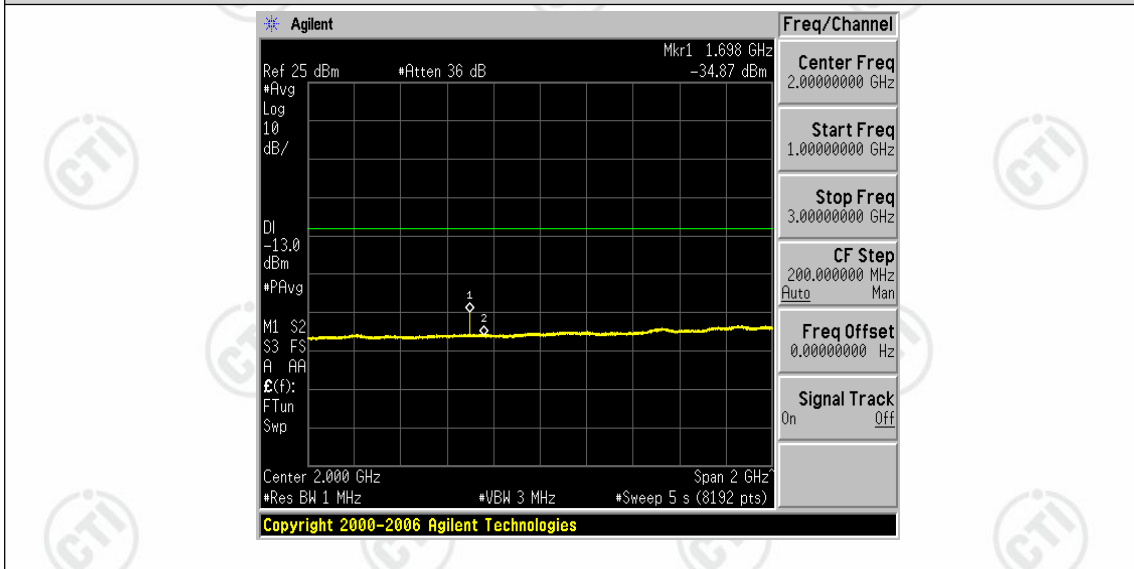
GSM850-251-0.15~30MHz



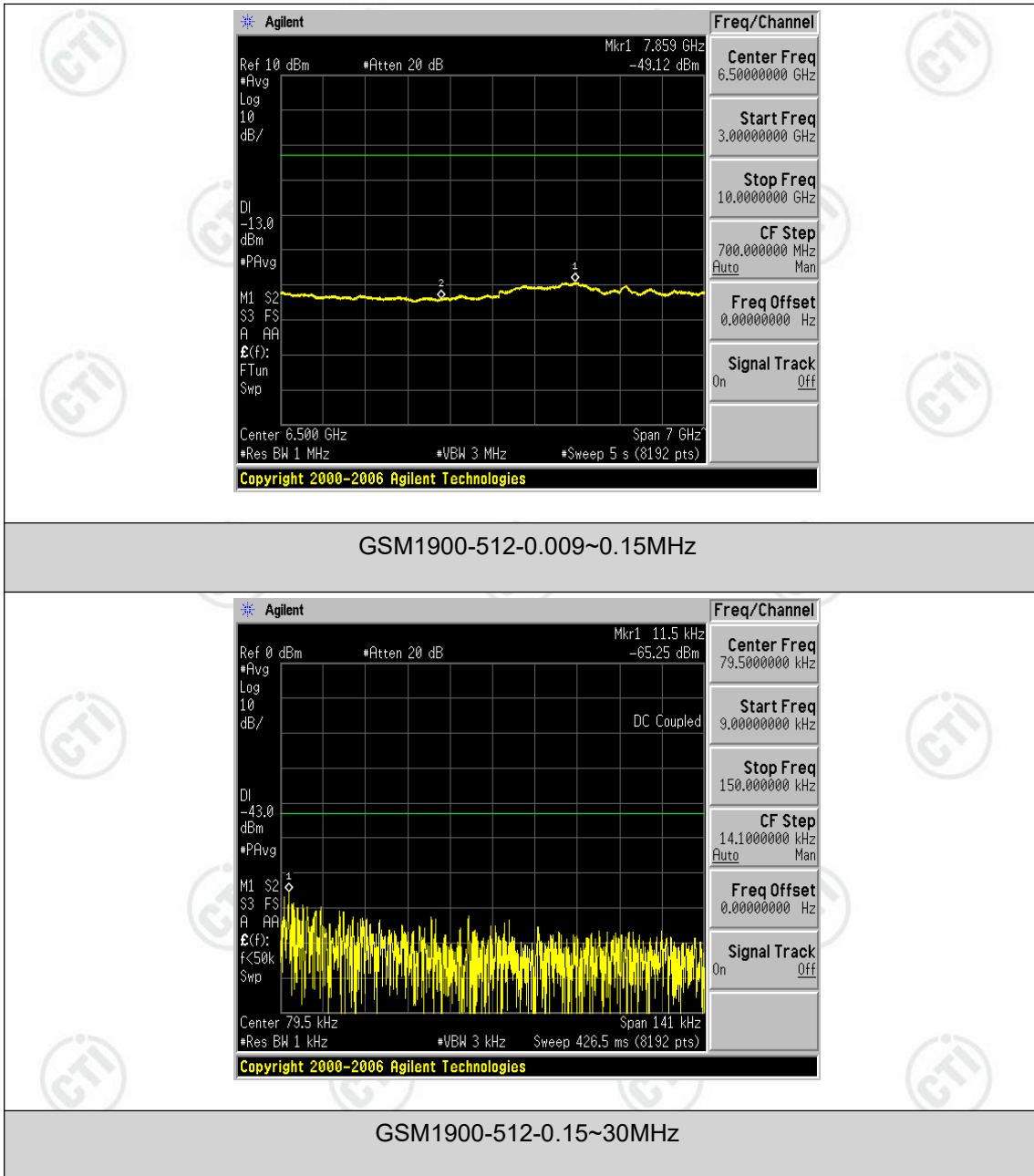
GSM850-251-30~1000MHz

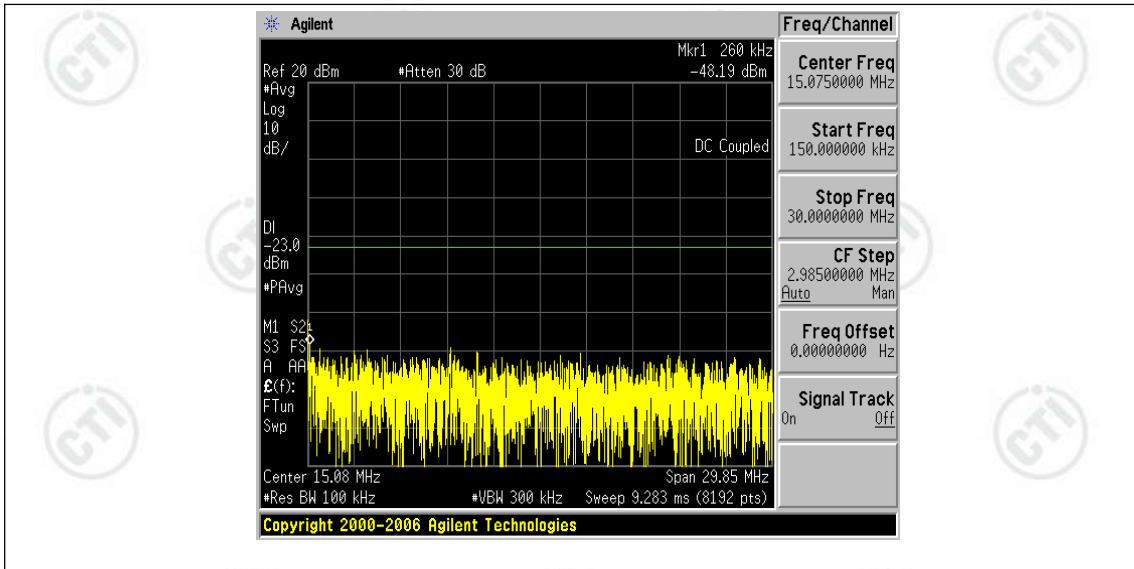


GSM850-251-1000~3000MHz

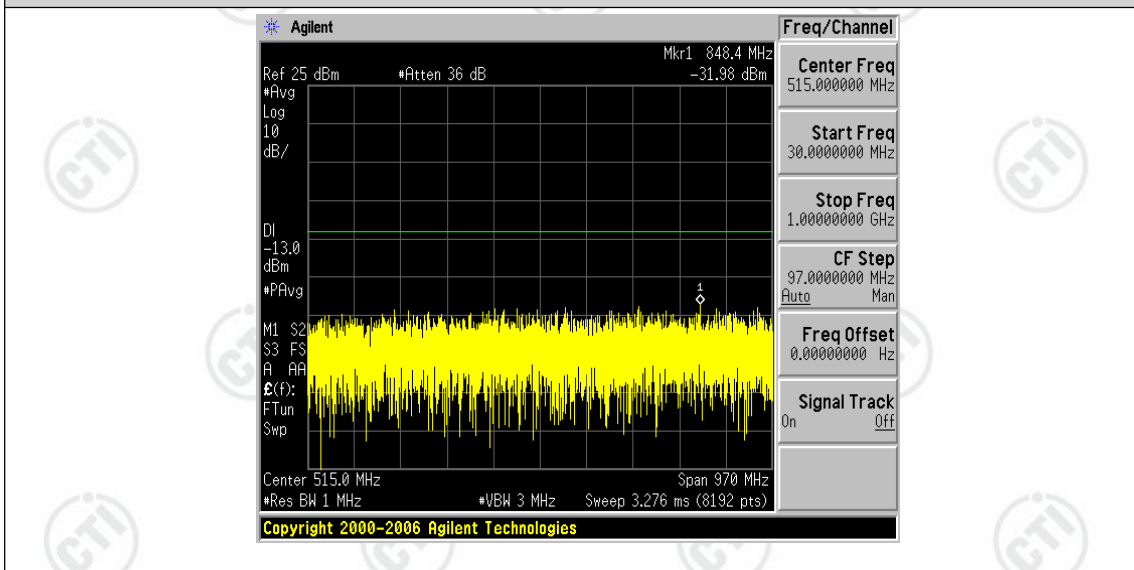


GSM850-251-3000~10000MHz

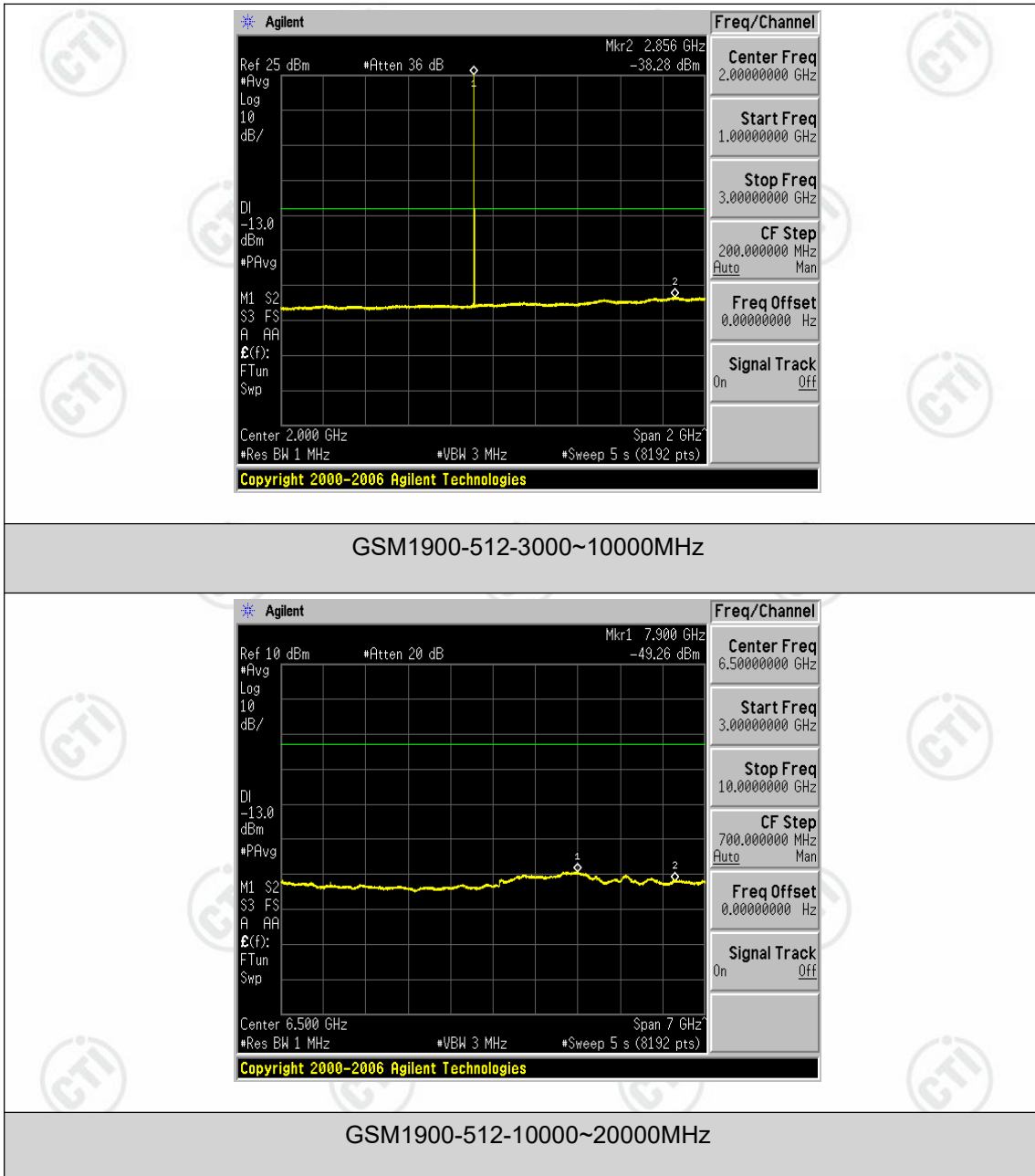


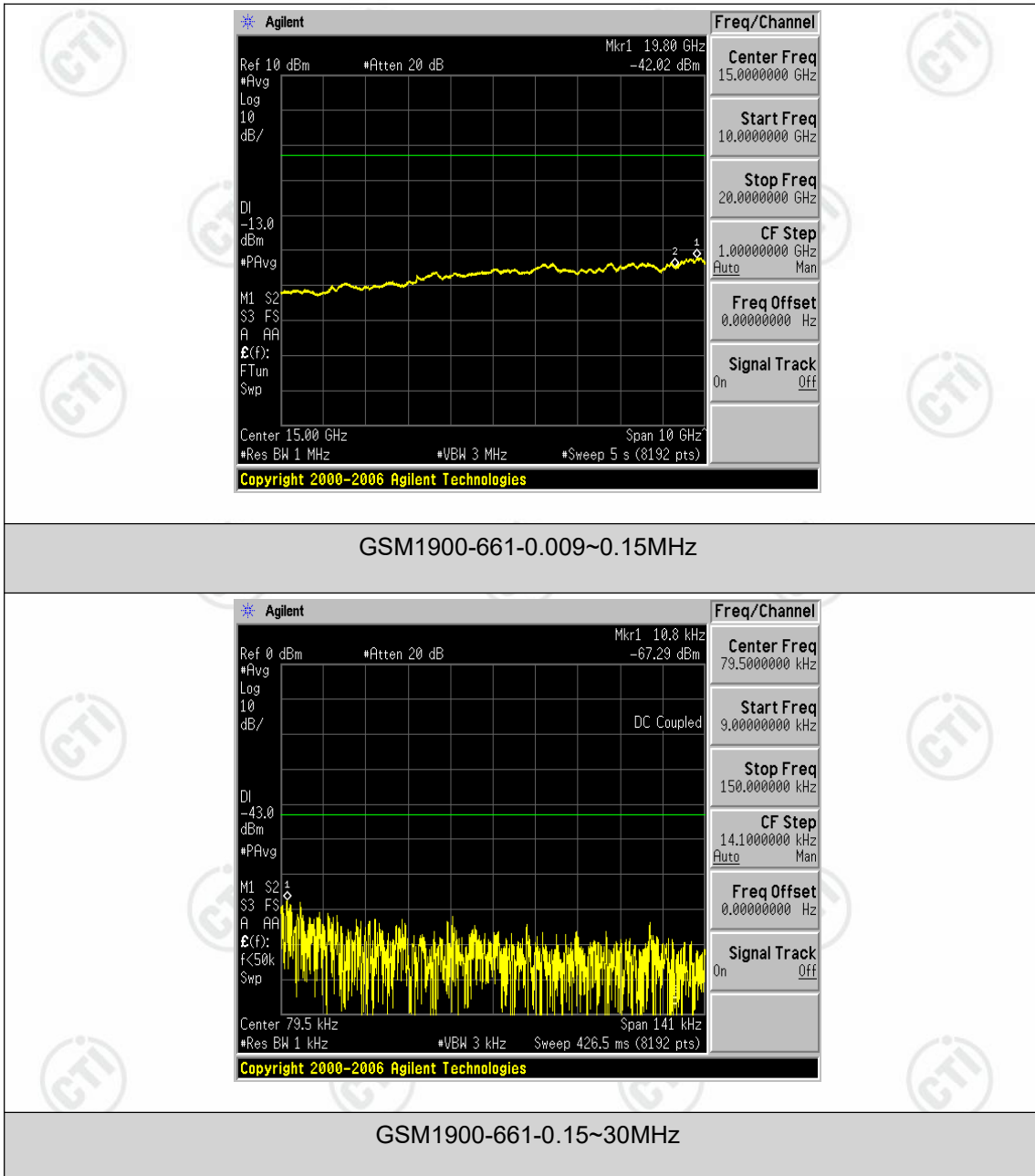


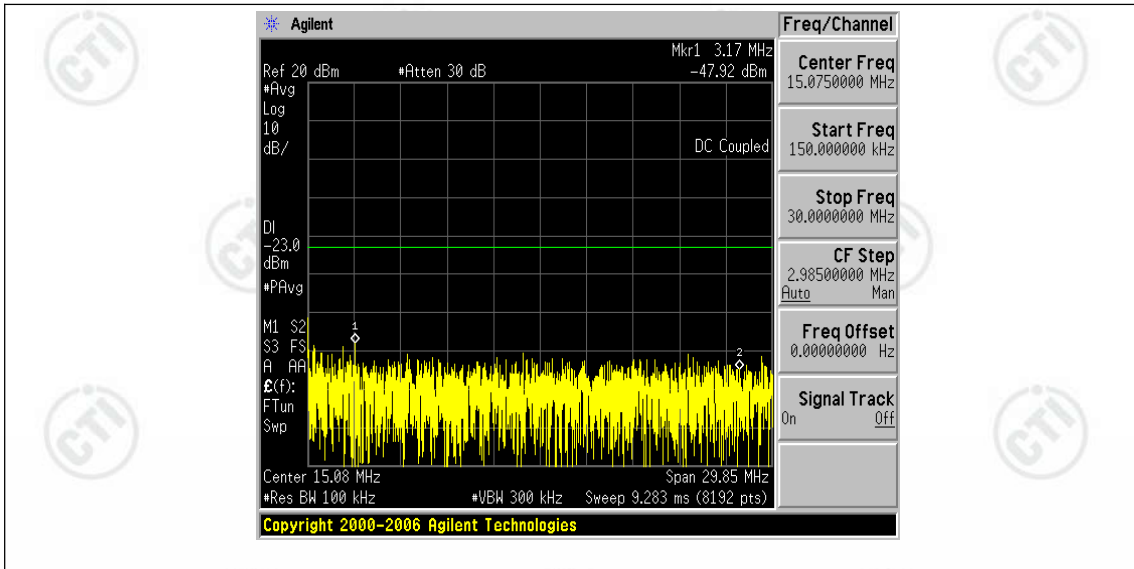
GSM1900-512-30~1000MHz



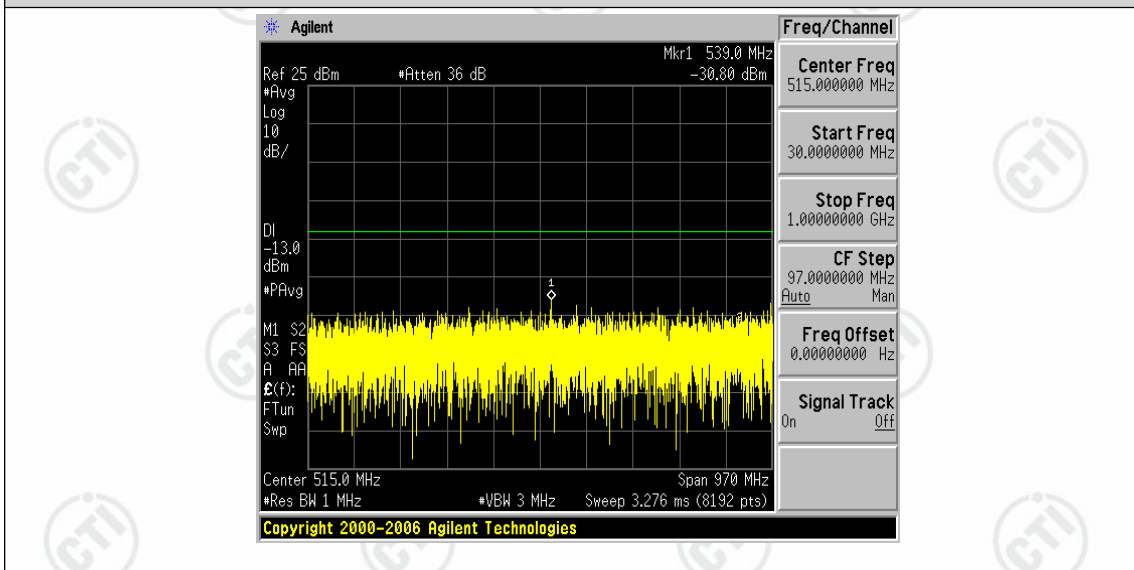
GSM1900-512-1000~3000MHz



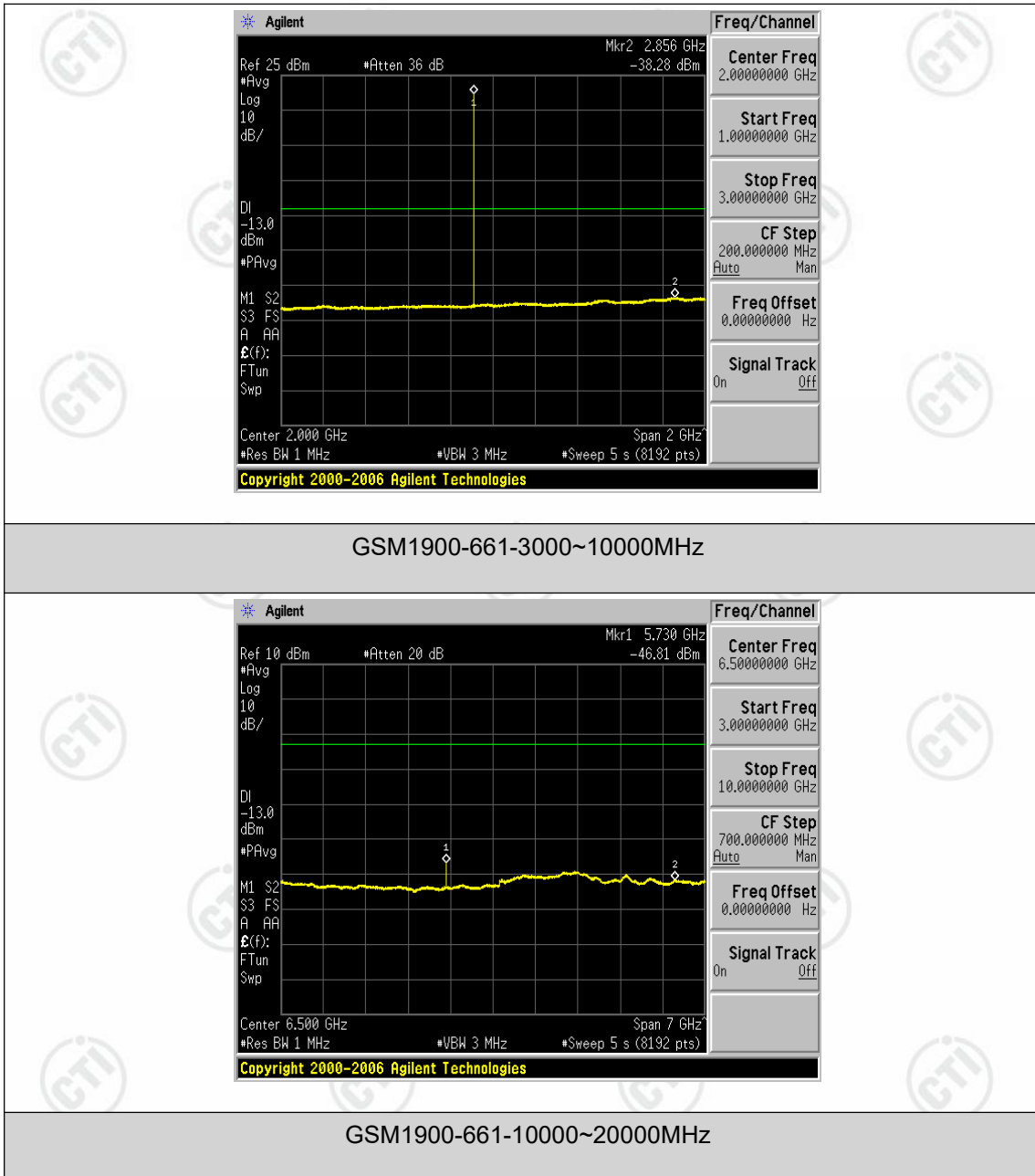


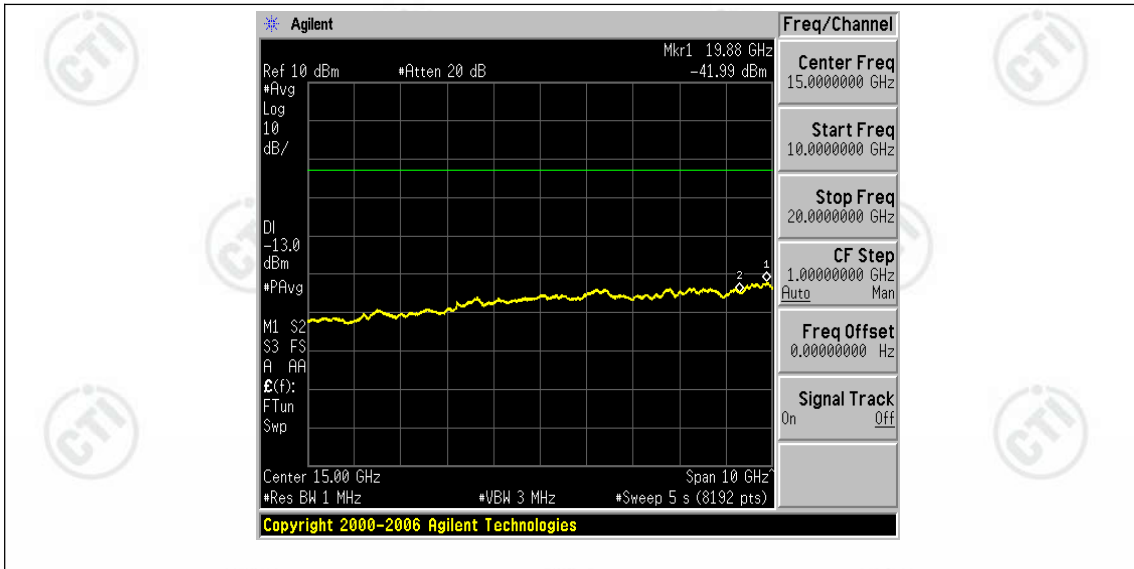


GSM1900-661-30~1000MHz

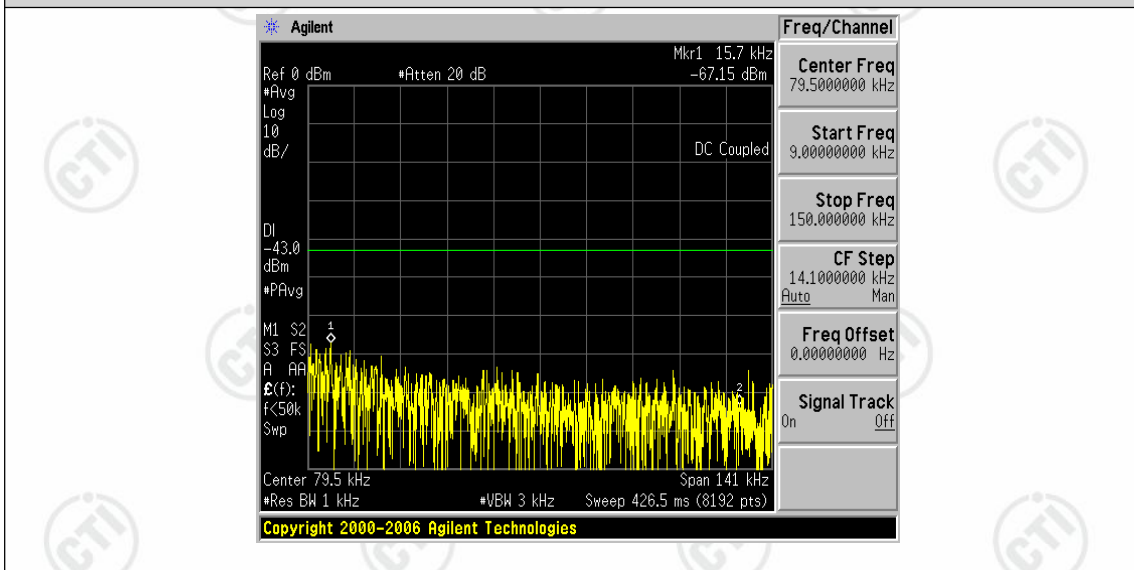


GSM1900-661-1000~3000MHz

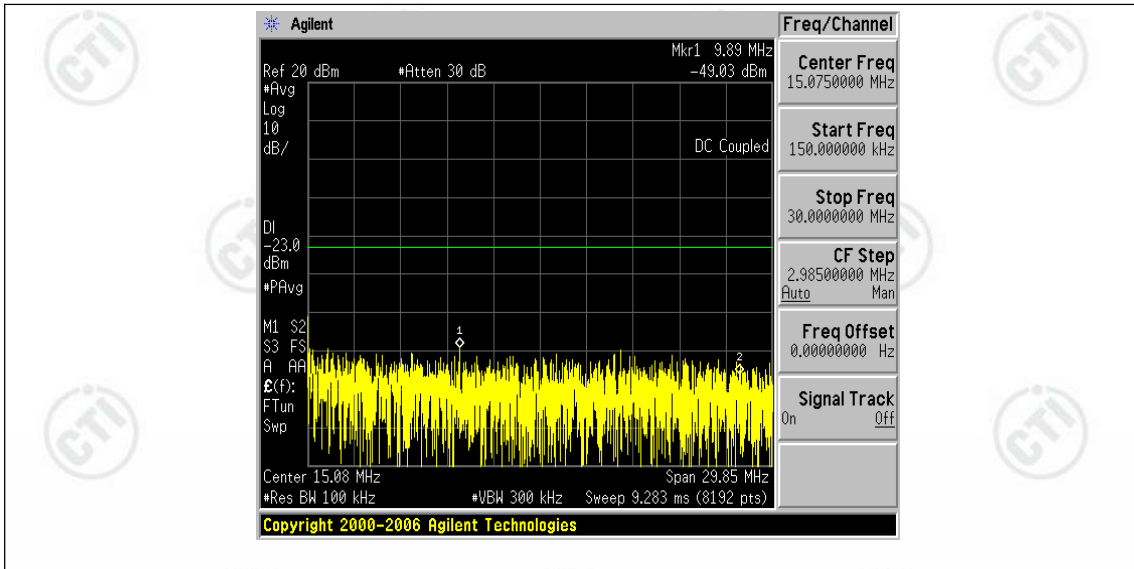




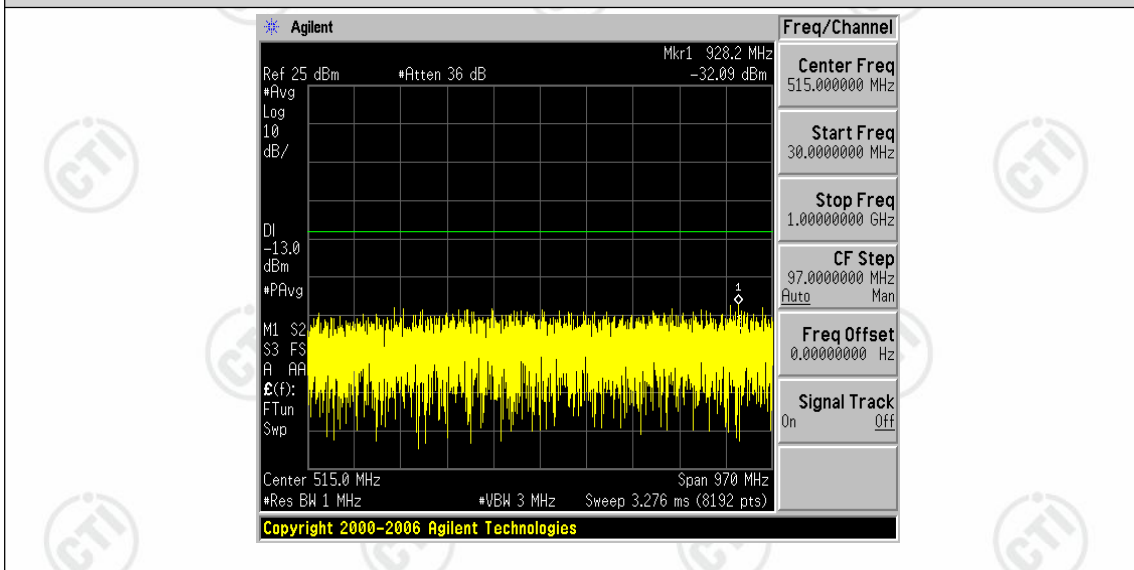
GSM1900-810-0.009~0.15MHz



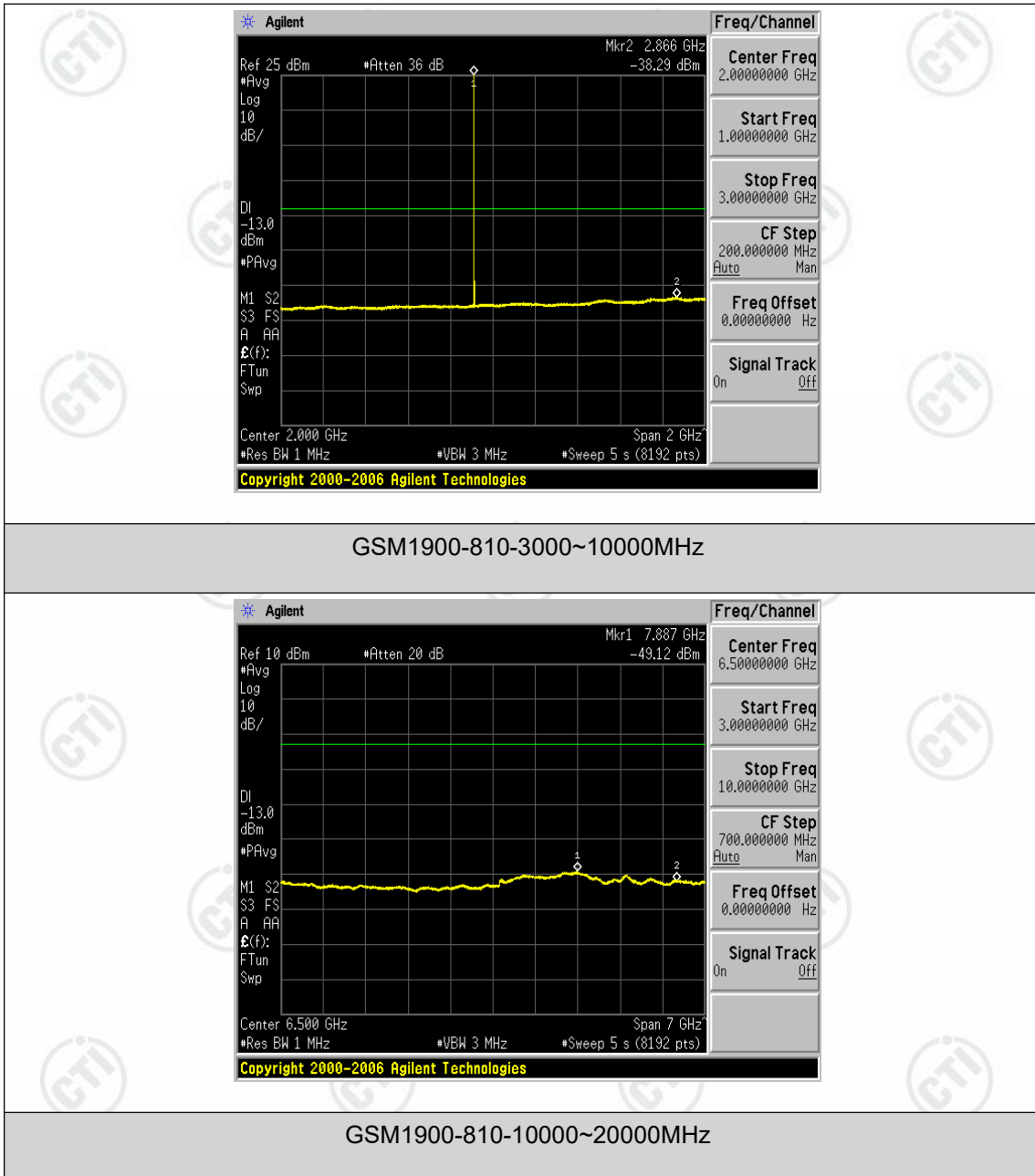
GSM1900-810-0.15~30MHz

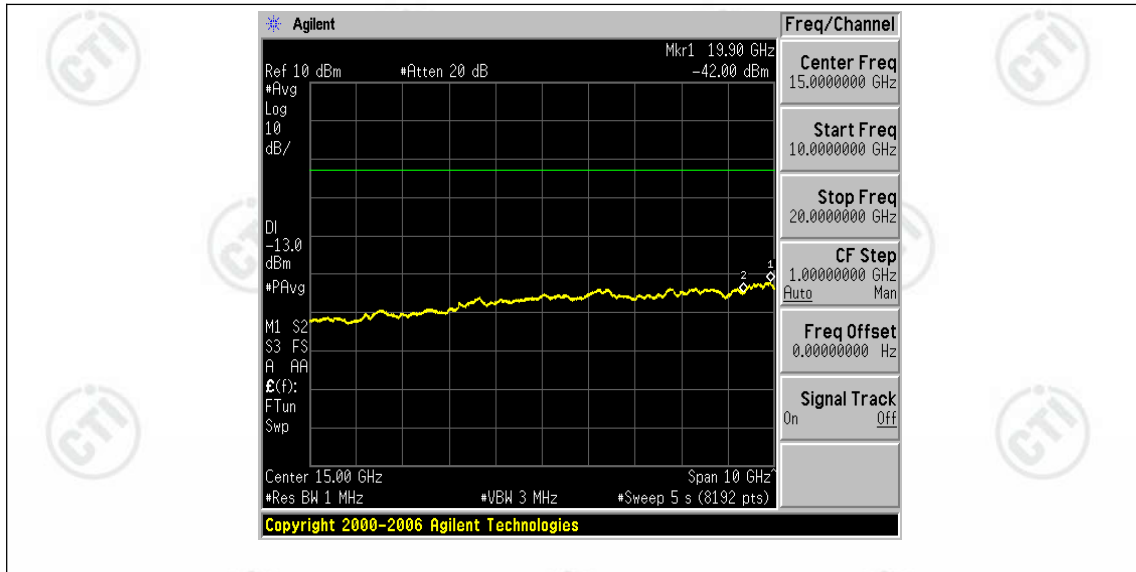


GSM1900-810-30~1000MHz



GSM1900-810-1000~3000MHz





Appendix F: Frequency Stability

Test Result

Voltage								
Band	Channel	PCL	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	3	VL	NT	3.06	0.003713	±2.5	PASS
GSM850	128	3	VN	NT	5.88	0.007134	±2.5	PASS
GSM850	128	3	VH	NT	6.03	0.007316	±2.5	PASS
GSM850	190	3	VL	NT	6.54	0.007817	±2.5	PASS
GSM850	190	3	VN	NT	6.35	0.007590	±2.5	PASS
GSM850	190	3	VH	NT	7.36	0.008798	±2.5	PASS
GSM850	251	3	VL	NT	11.01	0.012971	±2.5	PASS
GSM850	251	3	VN	NT	9.96	0.011734	±2.5	PASS
GSM850	251	3	VH	NT	6.08	0.007163	±2.5	PASS
GSM1900	512	0	VL	NT	20.95	0.011323	±2.5	PASS
GSM1900	512	0	VN	NT	24.72	0.013361	±2.5	PASS
GSM1900	512	0	VH	NT	24.16	0.013058	±2.5	PASS
GSM1900	661	0	VL	NT	21.85	0.011622	±2.5	PASS
GSM1900	661	0	VN	NT	26.85	0.014282	±2.5	PASS
GSM1900	661	0	VH	NT	26.04	0.013851	±2.5	PASS
GSM1900	810	0	VL	NT	22.15	0.011598	±2.5	PASS
GSM1900	810	0	VN	NT	20.23	0.010593	±2.5	PASS

GSM1900	810	0	VH	NT	24.96	0.013069	±2.5	PASS
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Temperature								
Band	Channel	PCL	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	3	NV	-30	3.80	0.004611	±2.5	PASS
GSM850	128	3	NV	-20	3.02	0.003664	±2.5	PASS
GSM850	128	3	NV	-10	4.46	0.005411	±2.5	PASS
GSM850	128	3	NV	0	4.15	0.005035	±2.5	PASS
GSM850	128	3	NV	10	-2.91	-0.003531	±2.5	PASS
GSM850	128	3	NV	20	-4.18	-0.005072	±2.5	PASS
GSM850	128	3	NV	30	-5.66	-0.006867	±2.5	PASS
GSM850	128	3	NV	40	-3.06	-0.003713	±2.5	PASS
GSM850	128	3	NV	50	-1.31	-0.001589	±2.5	PASS
GSM850	190	3	NV	-30	4.28	0.005116	±2.5	PASS
GSM850	190	3	NV	-20	5.08	0.006072	±2.5	PASS
GSM850	190	3	NV	-10	3.55	0.004243	±2.5	PASS
GSM850	190	3	NV	0	5.80	0.006933	±2.5	PASS
GSM850	190	3	NV	10	6.21	0.007423	±2.5	PASS
GSM850	190	3	NV	20	2.35	0.002809	±2.5	PASS
GSM850	190	3	NV	30	-2.42	-0.002893	±2.5	PASS
GSM850	190	3	NV	40	-0.65	-0.000777	±2.5	PASS

GSM850	190	3	NV	50	-3.17	-0.003789	±2.5	PASS
GSM850	251	3	NV	-30	11.90	0.014020	±2.5	PASS
GSM850	251	3	NV	-20	7.68	0.009048	±2.5	PASS
GSM850	251	3	NV	-10	11.44	0.013478	±2.5	PASS
GSM850	251	3	NV	0	9.35	0.011016	±2.5	PASS
GSM850	251	3	NV	10	12.08	0.014232	±2.5	PASS
GSM850	251	3	NV	20	8.65	0.010191	±2.5	PASS
GSM850	251	3	NV	30	3.59	0.004230	±2.5	PASS
GSM850	251	3	NV	40	4.46	0.005254	±2.5	PASS
GSM850	251	3	NV	50	4.80	0.005655	±2.5	PASS
GSM1900	512	0	NV	-30	23.19	0.012534	±2.5	PASS
GSM1900	512	0	NV	-20	25.18	0.013609	±2.5	PASS
GSM1900	512	0	NV	-10	23.57	0.012739	±2.5	PASS
GSM1900	512	0	NV	0	23.11	0.012491	±2.5	PASS
GSM1900	512	0	NV	10	18.63	0.010069	±2.5	PASS
GSM1900	512	0	NV	20	16.21	0.008761	±2.5	PASS
GSM1900	512	0	NV	30	13.88	0.007502	±2.5	PASS
GSM1900	512	0	NV	40	18.88	0.010204	±2.5	PASS
GSM1900	512	0	NV	50	21.80	0.011783	±2.5	PASS
GSM1900	661	0	NV	-30	25.25	0.013431	±2.5	PASS
GSM1900	661	0	NV	-20	24.78	0.013181	±2.5	PASS
GSM1900	661	0	NV	-10	22.43	0.011931	±2.5	PASS

GSM1900	661	0	NV	0	23.81	0.012665	±2.5	PASS
GSM1900	661	0	NV	10	27.08	0.014404	±2.5	PASS
GSM1900	661	0	NV	20	23.41	0.012452	±2.5	PASS
GSM1900	661	0	NV	30	18.88	0.010043	±2.5	PASS
GSM1900	661	0	NV	40	18.82	0.010011	±2.5	PASS
GSM1900	661	0	NV	50	22.20	0.011809	±2.5	PASS
GSM1900	810	0	NV	-30	25.88	0.013551	±2.5	PASS
GSM1900	810	0	NV	-20	23.31	0.012205	±2.5	PASS
GSM1900	810	0	NV	-10	21.84	0.011436	±2.5	PASS
GSM1900	810	0	NV	0	20.68	0.010828	±2.5	PASS
GSM1900	810	0	NV	10	20.62	0.010797	±2.5	PASS
GSM1900	810	0	NV	20	17.35	0.009085	±2.5	PASS
GSM1900	810	0	NV	30	24.45	0.012802	±2.5	PASS
GSM1900	810	0	NV	40	20.69	0.010834	±2.5	PASS
GSM1900	810	0	NV	50	19.54	0.010231	±2.5	PASS

END OF REPORT