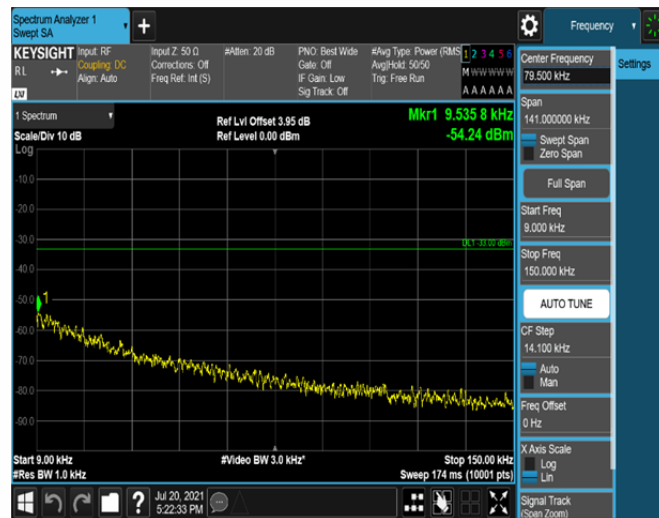
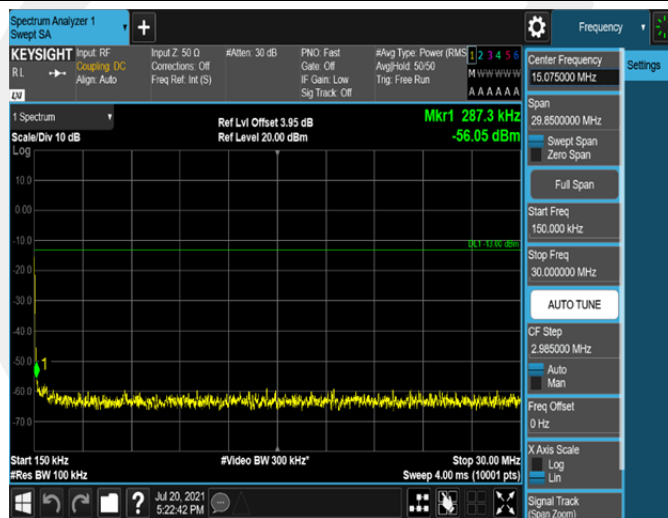


Test Graphs



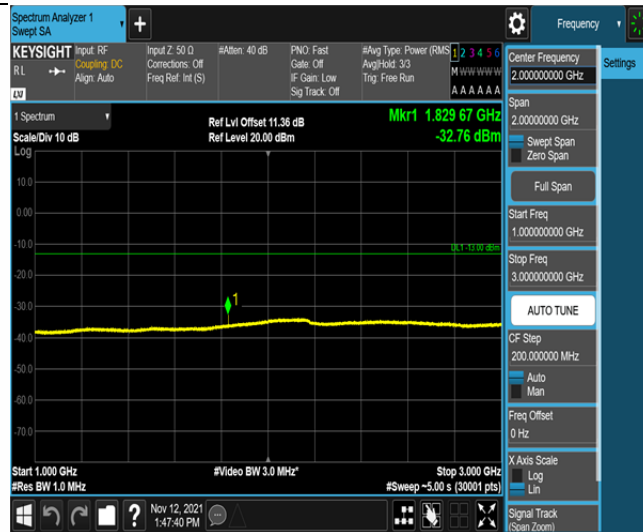
GSM850-128-3-0.009~0.15MHz



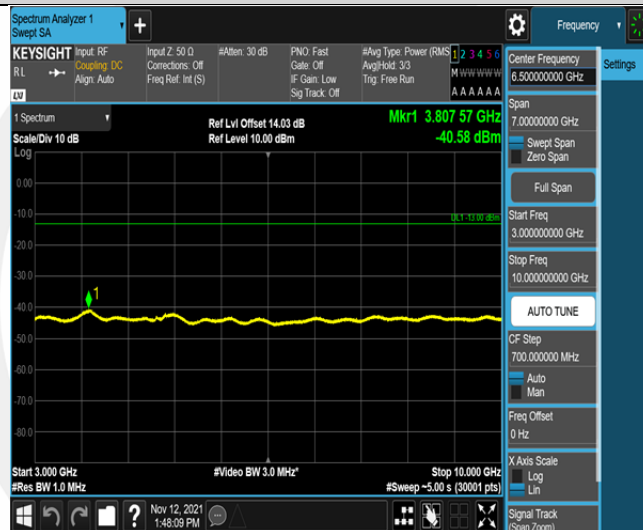
GSM850-128-3-0.15~30MHz



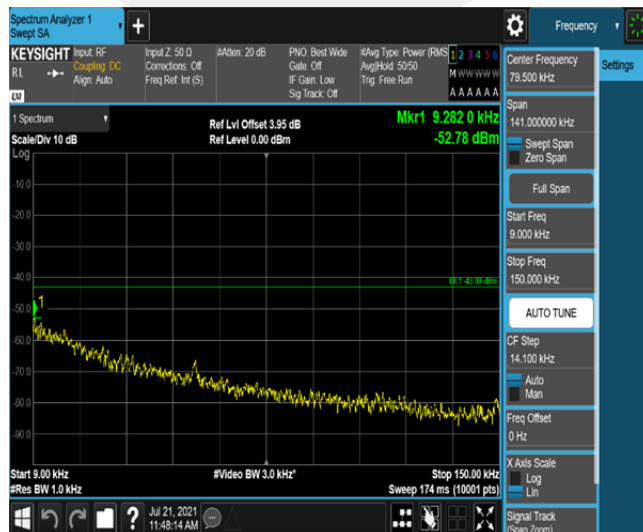
GSM850-128-3-30~1000MHz



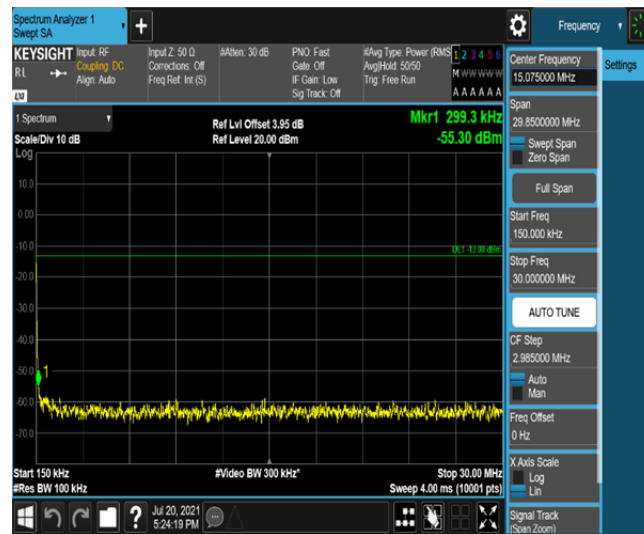
GSM850-128-3-1000~3000MHz



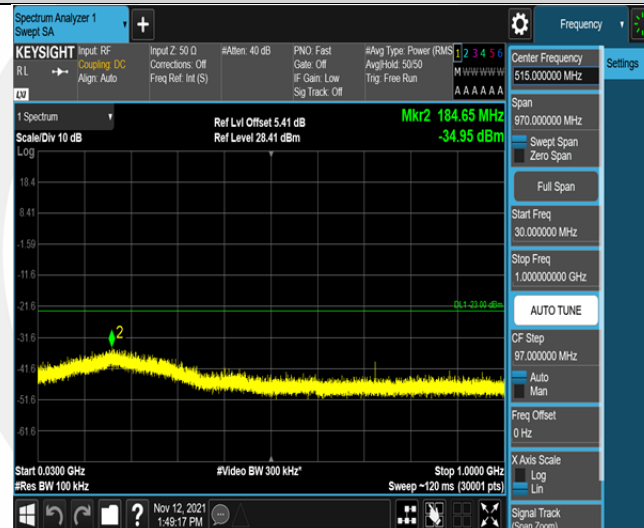
GSM850-128-3-3000~10000MHz



GSM850-190-3-0.009~0.15MHz



GSM850-190-3-0.15~30MHz



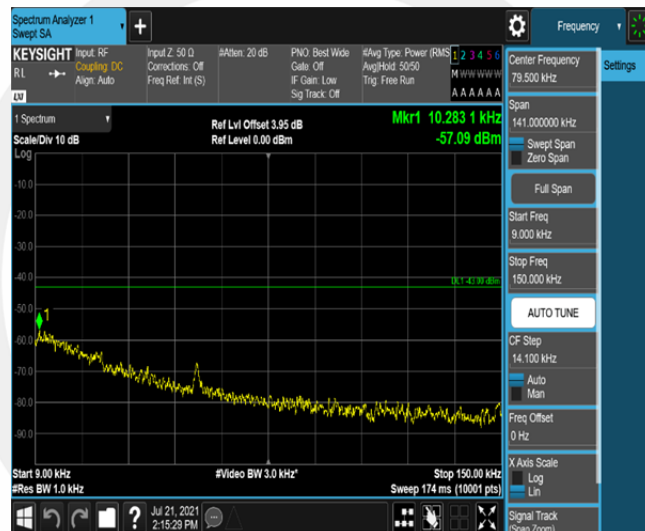
GSM850-190-3-30~1000MHz



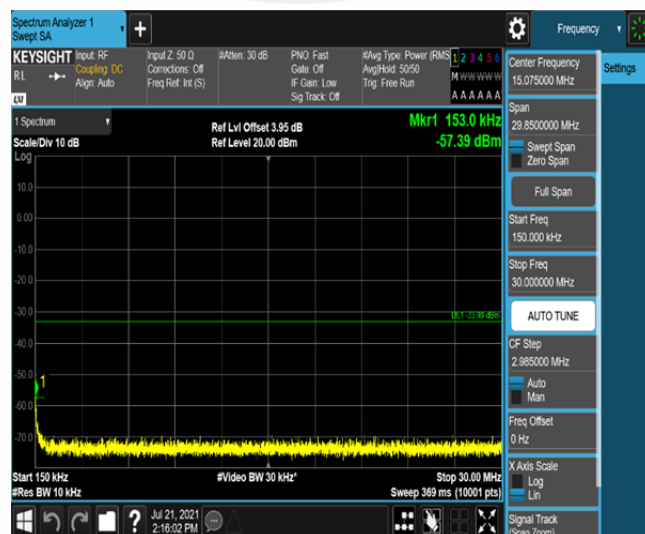
GSM850-190-3-1000~3000MHz



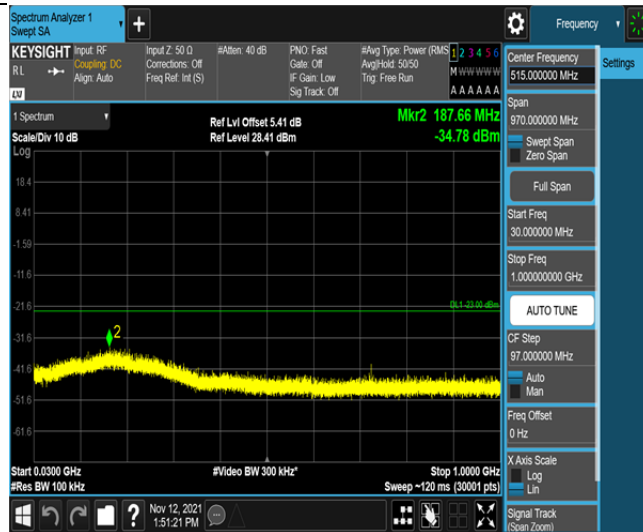
GSM850-190-3-3000~10000MHz



GSM850-251-3-0.009~0.15MHz



GSM850-251-3-0.15~30MHz



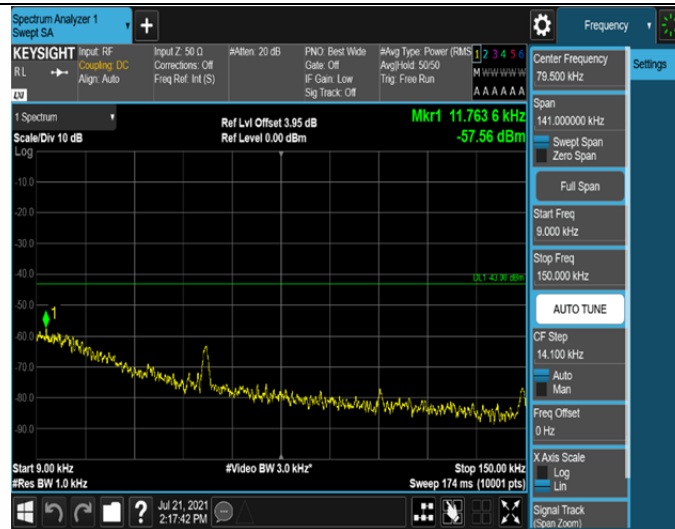
GSM850-251-3-30~1000MHz



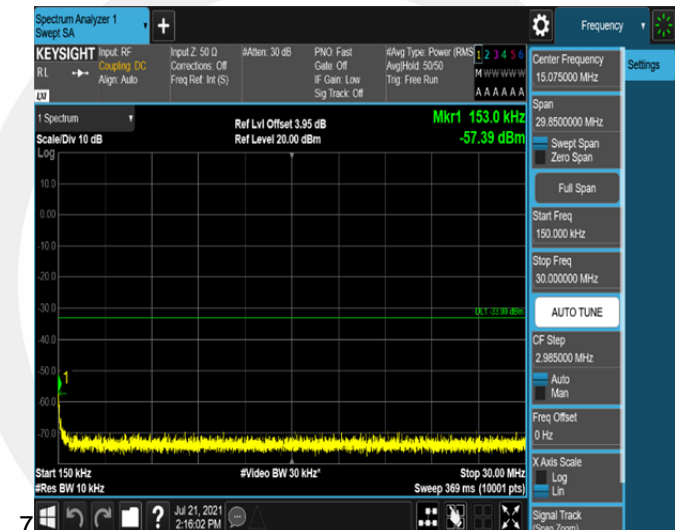
GSM850-251-3-1000~3000MHz



GSM850-251-3-3000~10000MHz



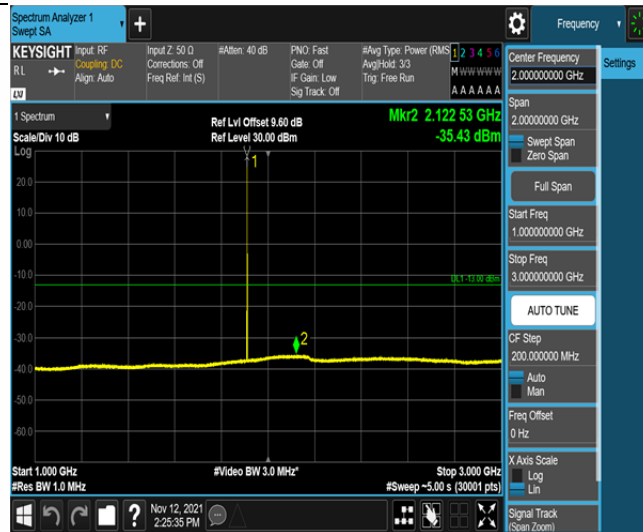
GSM1900-512-0-0.009~0.15MHz



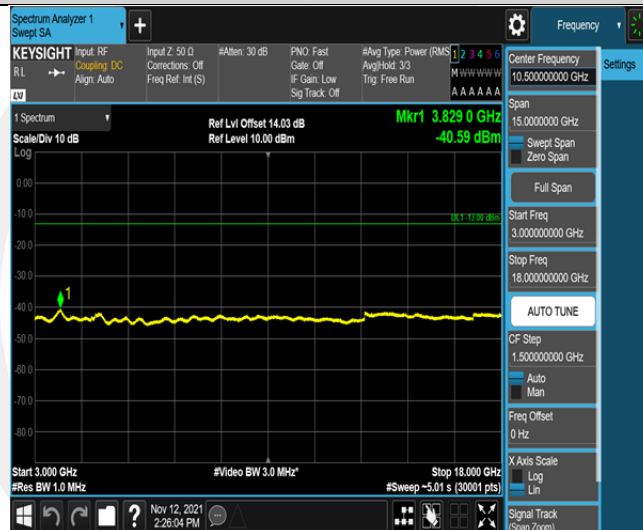
GSM1900-512-0-0.15~30MHz



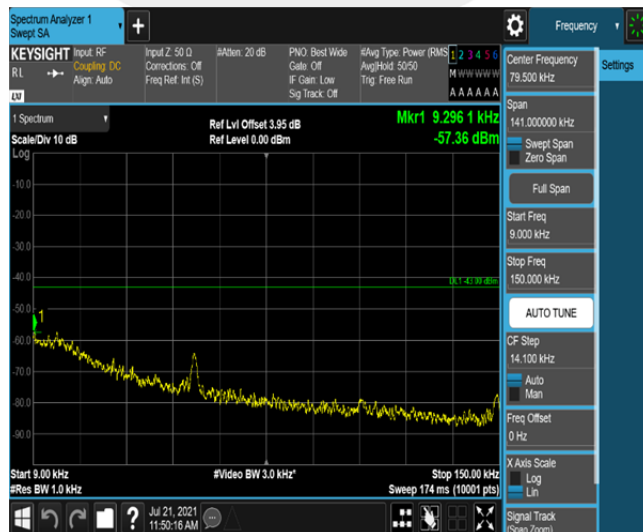
GSM1900-512-0-30~1000MHz



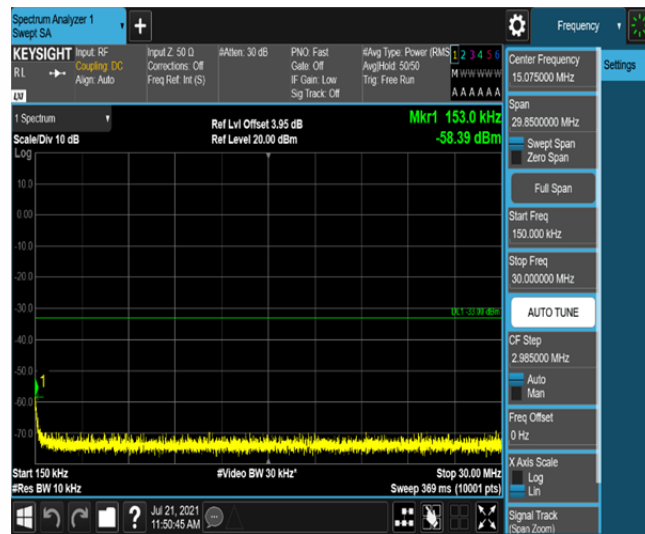
GSM1900-512-0-1000~3000MHz



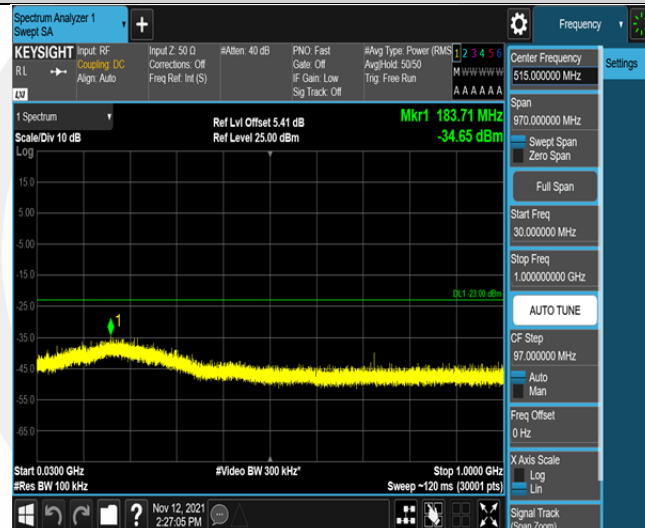
GSM1900-512-0-3000~18000MHz



GSM1900-661-0-0.009~0.15MHz



GSM1900-661-0-0.15~30MHz



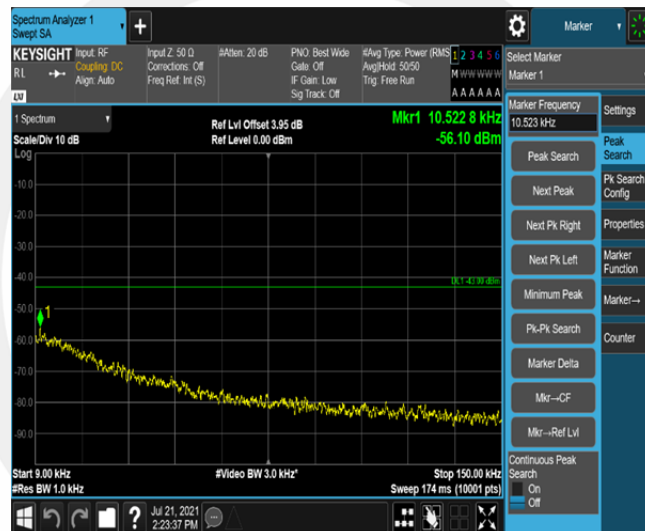
GSM1900-661-0-30~1000MHz



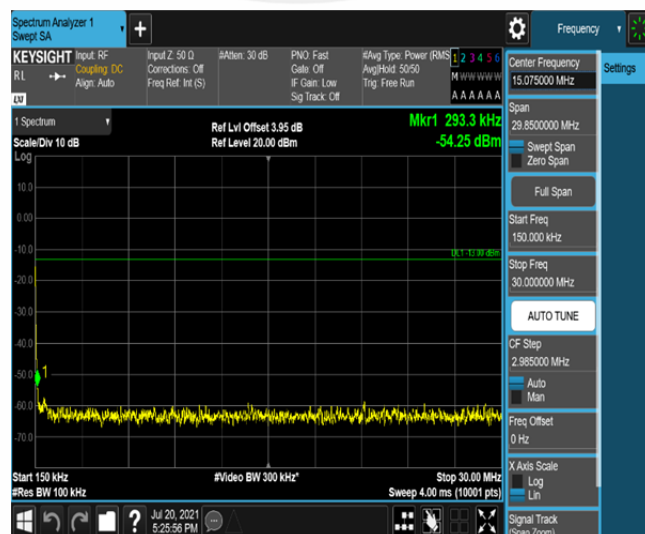
GSM1900-661-0-1000~3000MHz



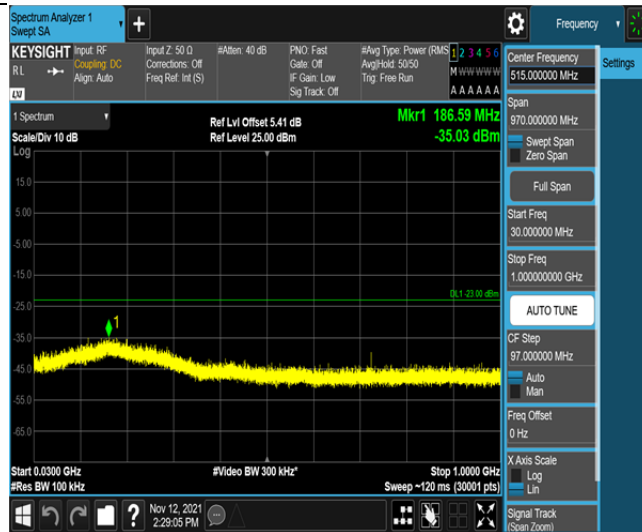
GSM1900-661-0-3000~18000MHz



GSM1900-810-0-0.009~0.15MHz



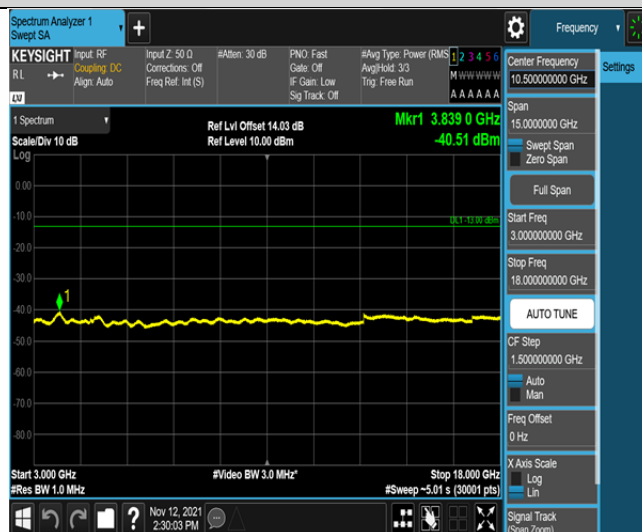
GSM1900-810-0-0.15~30MHz



GSM1900-810-0-30~1000MHz



GSM1900-810-0-1000~3000MHz



GSM1900-810-0-3000~18000MHz

Appendix F: Frequency Stability

Test Result

Band	Channel	PCL	Voltage					
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	3	VL	NT	-19.92	-0.024169	±2.5	PASS
GSM850	128	3	VN	NT	-19.79	-0.024011	±2.5	PASS
GSM850	128	3	VH	NT	-15.82	-0.019194	±2.5	PASS
GSM850	190	3	VL	NT	-15.24	-0.018217	±2.5	PASS
GSM850	190	3	VN	NT	-16.79	-0.020069	±2.5	PASS
GSM850	190	3	VH	NT	-14.63	-0.017487	±2.5	PASS
GSM850	251	3	VL	NT	-17.08	-0.020123	±2.5	PASS
GSM850	251	3	VN	NT	-15.92	-0.018756	±2.5	PASS
GSM850	251	3	VH	NT	-19.24	-0.022667	±2.5	PASS
GPRS850	128	3	VL	NT	-10.36	-0.012570	±2.5	PASS
GPRS850	128	3	VN	NT	-9.01	-0.010932	±2.5	PASS
GPRS850	128	3	VH	NT	-11.11	-0.013480	±2.5	PASS
GPRS850	190	3	VL	NT	-6.07	-0.007256	±2.5	PASS
GPRS850	190	3	VN	NT	-8.68	-0.010375	±2.5	PASS
GPRS850	190	3	VH	NT	-11.98	-0.014320	±2.5	PASS
GPRS850	251	3	VL	NT	-15.40	-0.018143	±2.5	PASS
GPRS850	251	3	VN	NT	-6.91	-0.008141	±2.5	PASS
GPRS850	251	3	VH	NT	-9.04	-0.010650	±2.5	PASS
GSM1900	512	0	VL	NT	-27.57	-0.014901	±2.5	PASS
GSM1900	512	0	VN	NT	-27.77	-0.015009	±2.5	PASS
GSM1900	512	0	VH	NT	-23.12	-0.012496	±2.5	PASS
GSM1900	661	0	VL	NT	-25.51	-0.013569	±2.5	PASS
GSM1900	661	0	VN	NT	-27.15	-0.014441	±2.5	PASS
GSM1900	661	0	VH	NT	-25.12	-0.013362	±2.5	PASS
GSM1900	810	0	VL	NT	-34.32	-0.017970	±2.5	PASS
GSM1900	810	0	VN	NT	-26.64	-0.013949	±2.5	PASS
GSM1900	810	0	VH	NT	-26.86	-0.014064	±2.5	PASS
GPRS1900	512	0	VL	NT	-19.31	-0.010437	±2.5	PASS
GPRS1900	512	0	VN	NT	-13.69	-0.007399	±2.5	PASS
GPRS1900	512	0	VH	NT	-31.38	-0.016960	±2.5	PASS

GPRS1900	661	0	VL	NT	-17.82	-0.009479	±2.5	PASS
GPRS1900	661	0	VN	NT	-23.15	-0.012314	±2.5	PASS
GPRS1900	661	0	VH	NT	-19.98	-0.010628	±2.5	PASS
GPRS1900	810	0	VL	NT	-21.70	-0.011362	±2.5	PASS
GPRS1900	810	0	VN	NT	-23.99	-0.012562	±2.5	PASS
GPRS1900	810	0	VH	NT	-25.22	-0.013206	±2.5	PASS

Temperature								
Band	Channel	PCL	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	3	NV	-30	-15.46	-0.018758	±2.5	PASS
GSM850	128	3	NV	-20	-15.01	-0.018212	±2.5	PASS
GSM850	128	3	NV	-10	-16.27	-0.019740	±2.5	PASS
GSM850	128	3	NV	0	-18.11	-0.021973	±2.5	PASS
GSM850	128	3	NV	10	-20.95	-0.025419	±2.5	PASS
GSM850	128	3	NV	20	-21.66	-0.026280	±2.5	PASS
GSM850	128	3	NV	30	-20.34	-0.024678	±2.5	PASS
GSM850	128	3	NV	40	-16.92	-0.020529	±2.5	PASS
GSM850	128	3	NV	50	-14.40	-0.017471	±2.5	PASS
GSM850	190	3	NV	-30	-20.15	-0.024086	±2.5	PASS
GSM850	190	3	NV	-20	-18.14	-0.021683	±2.5	PASS
GSM850	190	3	NV	-10	-16.53	-0.019759	±2.5	PASS
GSM850	190	3	NV	0	-12.88	-0.015396	±2.5	PASS
GSM850	190	3	NV	10	-15.46	-0.018480	±2.5	PASS
GSM850	190	3	NV	20	-16.14	-0.019292	±2.5	PASS
GSM850	190	3	NV	30	-16.01	-0.019137	±2.5	PASS
GSM850	190	3	NV	40	-20.95	-0.025042	±2.5	PASS
GSM850	190	3	NV	50	-20.34	-0.024313	±2.5	PASS
GSM850	251	3	NV	-30	-12.46	-0.014680	±2.5	PASS
GSM850	251	3	NV	-20	-16.14	-0.019015	±2.5	PASS
GSM850	251	3	NV	-10	-14.69	-0.017307	±2.5	PASS
GSM850	251	3	NV	0	-18.60	-0.021913	±2.5	PASS
GSM850	251	3	NV	10	-16.01	-0.018862	±2.5	PASS
GSM850	251	3	NV	20	-15.11	-0.017802	±2.5	PASS
GSM850	251	3	NV	30	-16.59	-0.019545	±2.5	PASS
GSM850	251	3	NV	40	-15.43	-0.018179	±2.5	PASS

GSM850	251	3	NV	50	-12.59	-0.014833	±2.5	PASS
GPRS850	128	3	NV	-30	-7.88	-0.009561	±2.5	PASS
GPRS850	128	3	NV	-20	-6.10	-0.007401	±2.5	PASS
GPRS850	128	3	NV	-10	-9.78	-0.011866	±2.5	PASS
GPRS850	128	3	NV	0	-8.14	-0.009876	±2.5	PASS
GPRS850	128	3	NV	10	-19.31	-0.023429	±2.5	PASS
GPRS850	128	3	NV	20	-15.95	-0.019352	±2.5	PASS
GPRS850	128	3	NV	30	-11.33	-0.013747	±2.5	PASS
GPRS850	128	3	NV	40	-16.34	-0.019825	±2.5	PASS
GPRS850	128	3	NV	50	-15.30	-0.018563	±2.5	PASS
GPRS850	190	3	NV	-30	-6.30	-0.007530	±2.5	PASS
GPRS850	190	3	NV	-20	-10.46	-0.012503	±2.5	PASS
GPRS850	190	3	NV	-10	-12.24	-0.014631	±2.5	PASS
GPRS850	190	3	NV	0	-10.46	-0.012503	±2.5	PASS
GPRS850	190	3	NV	10	-7.39	-0.008833	±2.5	PASS
GPRS850	190	3	NV	20	-9.40	-0.011236	±2.5	PASS
GPRS850	190	3	NV	30	-10.11	-0.012085	±2.5	PASS
GPRS850	190	3	NV	40	-10.69	-0.012778	±2.5	PASS
GPRS850	190	3	NV	50	-10.36	-0.012383	±2.5	PASS
GPRS850	251	3	NV	-30	-5.75	-0.006774	±2.5	PASS
GPRS850	251	3	NV	-20	-7.04	-0.008294	±2.5	PASS
GPRS850	251	3	NV	-10	-9.81	-0.011557	±2.5	PASS
GPRS850	251	3	NV	0	-5.17	-0.006091	±2.5	PASS
GPRS850	251	3	NV	10	-4.55	-0.005361	±2.5	PASS
GPRS850	251	3	NV	20	-10.27	-0.012099	±2.5	PASS
GPRS850	251	3	NV	30	-9.81	-0.011557	±2.5	PASS
GPRS850	251	3	NV	40	-14.79	-0.017425	±2.5	PASS
GPRS850	251	3	NV	50	-14.08	-0.016588	±2.5	PASS
GSM1900	512	0	NV	-30	-25.38	-0.013717	±2.5	PASS
GSM1900	512	0	NV	-20	-30.90	-0.016701	±2.5	PASS
GSM1900	512	0	NV	-10	-19.86	-0.010734	±2.5	PASS
GSM1900	512	0	NV	0	-15.05	-0.008134	±2.5	PASS
GSM1900	512	0	NV	10	-33.09	-0.017885	±2.5	PASS
GSM1900	512	0	NV	20	-22.57	-0.012199	±2.5	PASS
GSM1900	512	0	NV	30	-24.99	-0.013507	±2.5	PASS
GSM1900	512	0	NV	40	-21.86	-0.011815	±2.5	PASS

GSM1900	512	0	NV	50	-35.35	-0.019106	±2.5	PASS
GSM1900	661	0	NV	-30	-31.32	-0.016660	±2.5	PASS
GSM1900	661	0	NV	-20	-29.93	-0.015920	±2.5	PASS
GSM1900	661	0	NV	-10	-29.86	-0.015883	±2.5	PASS
GSM1900	661	0	NV	0	-29.48	-0.015681	±2.5	PASS
GSM1900	661	0	NV	10	-29.48	-0.015681	±2.5	PASS
GSM1900	661	0	NV	20	-32.58	-0.017330	±2.5	PASS
GSM1900	661	0	NV	30	-33.96	-0.018064	±2.5	PASS
GSM1900	661	0	NV	40	-38.45	-0.020452	±2.5	PASS
GSM1900	661	0	NV	50	-45.72	-0.024319	±2.5	PASS
GSM1900	810	0	NV	-30	-31.87	-0.016688	±2.5	PASS
GSM1900	810	0	NV	-20	-25.25	-0.013221	±2.5	PASS
GSM1900	810	0	NV	-10	-32.12	-0.016819	±2.5	PASS
GSM1900	810	0	NV	0	-31.51	-0.016499	±2.5	PASS
GSM1900	810	0	NV	10	-27.73	-0.014520	±2.5	PASS
GSM1900	810	0	NV	20	-28.54	-0.014944	±2.5	PASS
GSM1900	810	0	NV	30	-42.84	-0.022432	±2.5	PASS
GSM1900	810	0	NV	40	-29.06	-0.015216	±2.5	PASS
GSM1900	810	0	NV	50	-30.32	-0.015876	±2.5	PASS
GPRS1900	512	0	NV	-30	-21.70	-0.011728	±2.5	PASS
GPRS1900	512	0	NV	-20	-21.83	-0.011799	±2.5	PASS
GPRS1900	512	0	NV	-10	-20.73	-0.011204	±2.5	PASS
GPRS1900	512	0	NV	0	-20.50	-0.011080	±2.5	PASS
GPRS1900	512	0	NV	10	-34.38	-0.018582	±2.5	PASS
GPRS1900	512	0	NV	20	-30.74	-0.016614	±2.5	PASS
GPRS1900	512	0	NV	30	-29.48	-0.015933	±2.5	PASS
GPRS1900	512	0	NV	40	-26.12	-0.014117	±2.5	PASS
GPRS1900	512	0	NV	50	-21.21	-0.011464	±2.5	PASS
GPRS1900	661	0	NV	-30	-20.99	-0.011165	±2.5	PASS
GPRS1900	661	0	NV	-20	-17.11	-0.009101	±2.5	PASS
GPRS1900	661	0	NV	-10	-19.73	-0.010495	±2.5	PASS
GPRS1900	661	0	NV	0	-26.02	-0.013840	±2.5	PASS
GPRS1900	661	0	NV	10	-24.54	-0.013053	±2.5	PASS
GPRS1900	661	0	NV	20	-21.63	-0.011505	±2.5	PASS
GPRS1900	661	0	NV	30	-38.45	-0.020452	±2.5	PASS
GPRS1900	661	0	NV	40	-28.48	-0.015149	±2.5	PASS

GPRS1900	661	0	NV	50	-23.99	-0.012761	±2.5	PASS
GPRS1900	810	0	NV	-30	-14.50	-0.007592	±2.5	PASS
GPRS1900	810	0	NV	-20	-22.89	-0.011986	±2.5	PASS
GPRS1900	810	0	NV	-10	-24.89	-0.013033	±2.5	PASS
GPRS1900	810	0	NV	0	-32.29	-0.016908	±2.5	PASS
GPRS1900	810	0	NV	10	-21.44	-0.011226	±2.5	PASS
GPRS1900	810	0	NV	20	-25.96	-0.013593	±2.5	PASS
GPRS1900	810	0	NV	30	-28.96	-0.015164	±2.5	PASS
GPRS1900	810	0	NV	40	-31.41	-0.016447	±2.5	PASS
GPRS1900	810	0	NV	50	-36.84	-0.019290	±2.5	PASS

