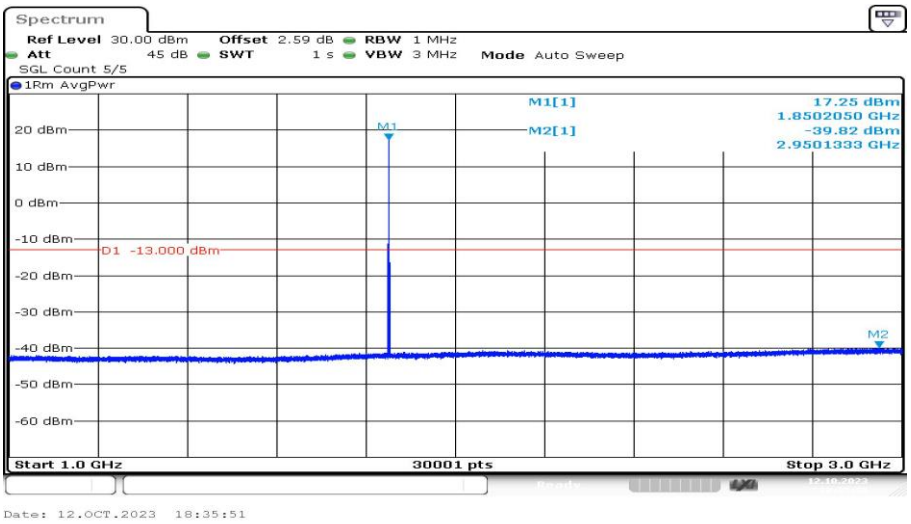
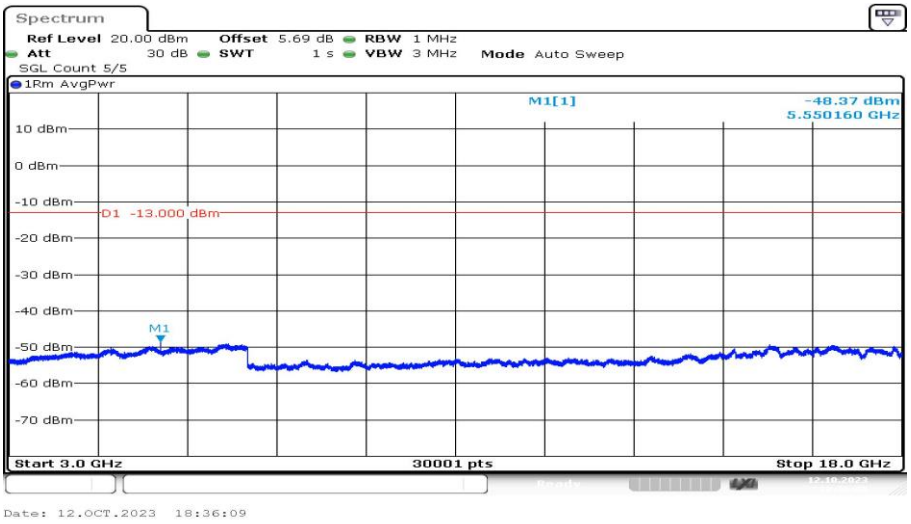
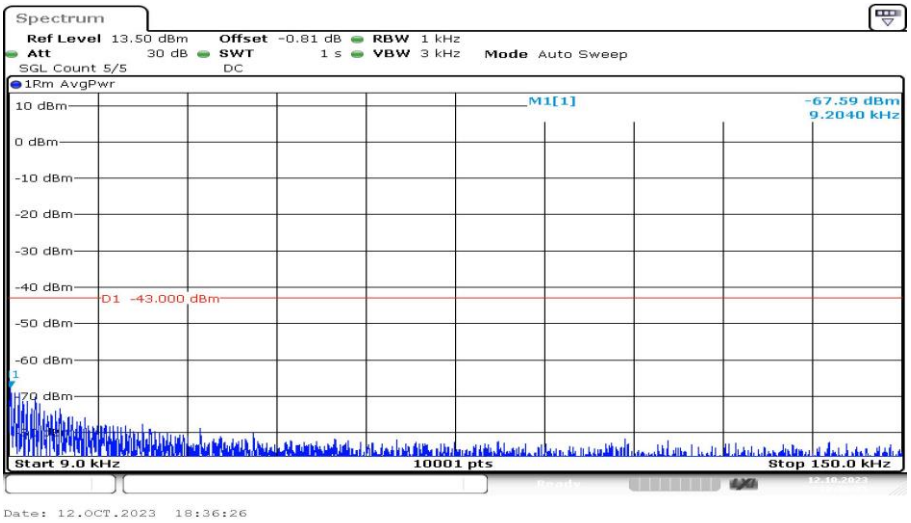


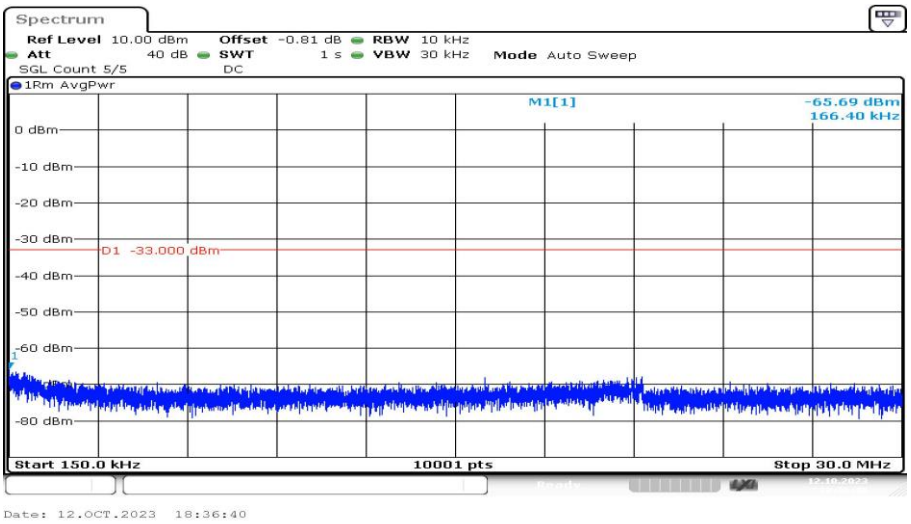
GSM1900-512-0-1000~3000MHz-PASS



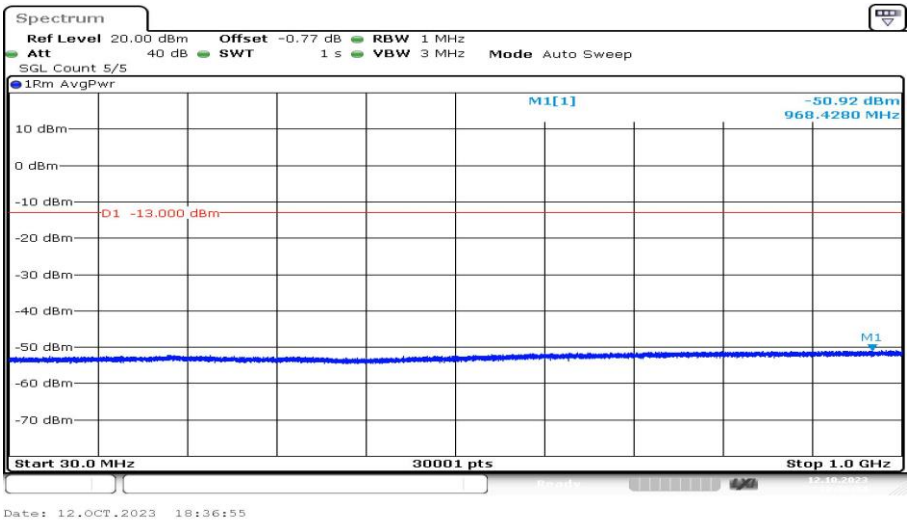
GSM1900-512-0-3000~18000MHz-PASS



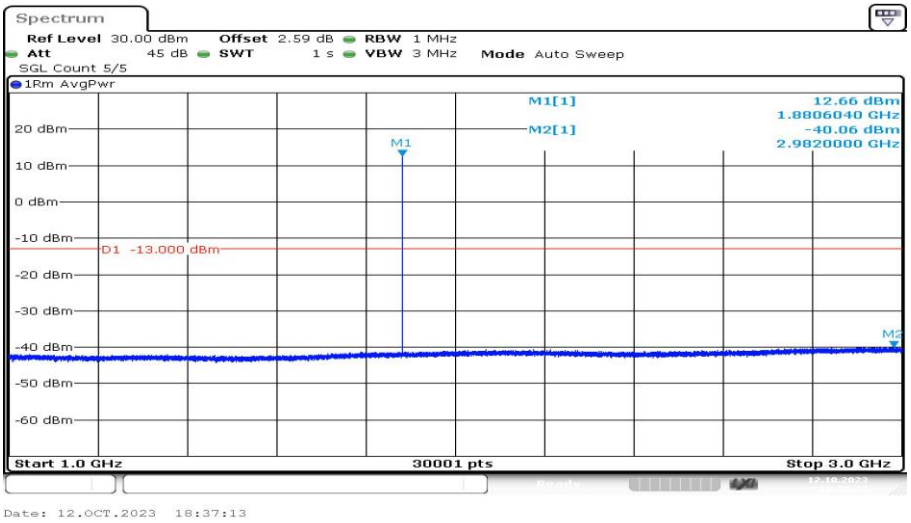
GSM1900-661-0-0.009~0.15MHz-PASS



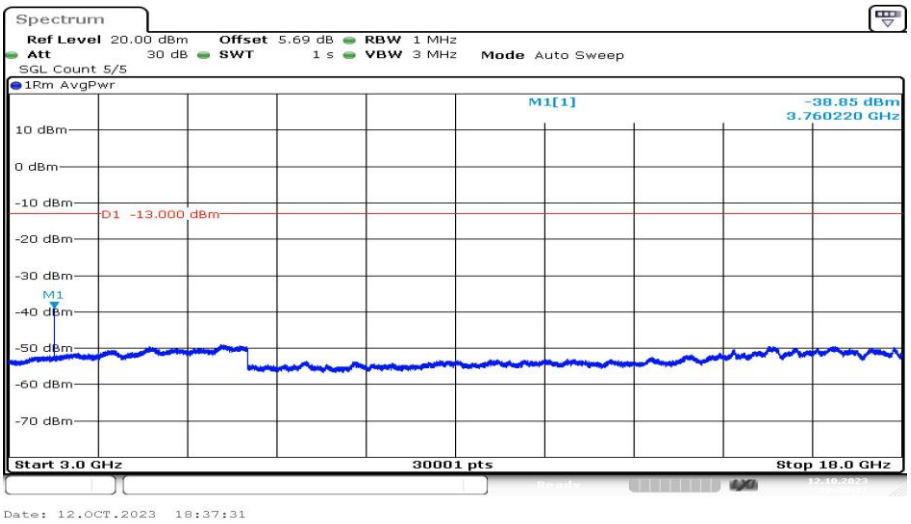
GSM1900-661-0-0.15~30MHz-PASS



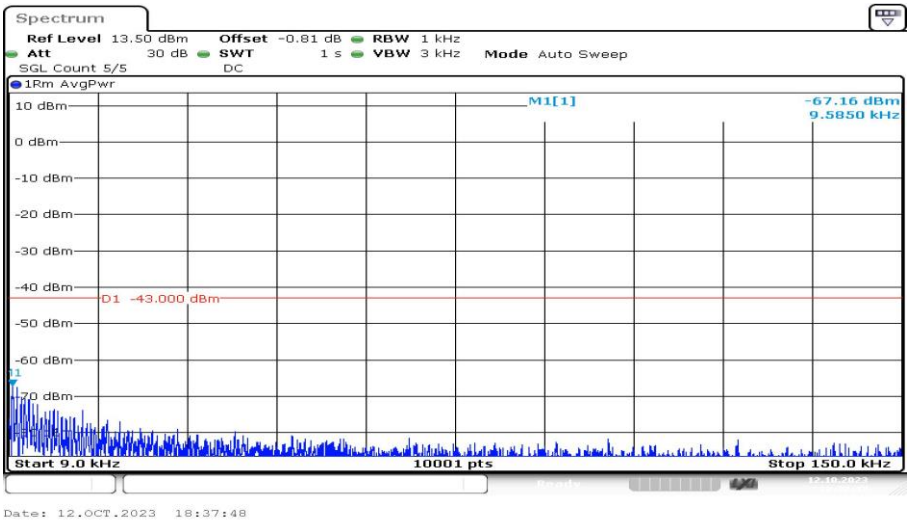
GSM1900-661-0-30~1000MHz-PASS



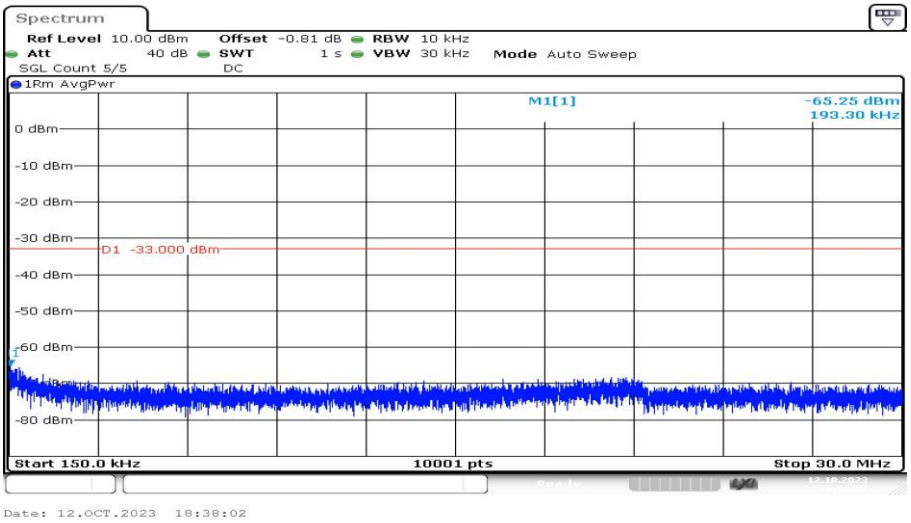
GSM1900-661-0-1000~3000MHz-PASS



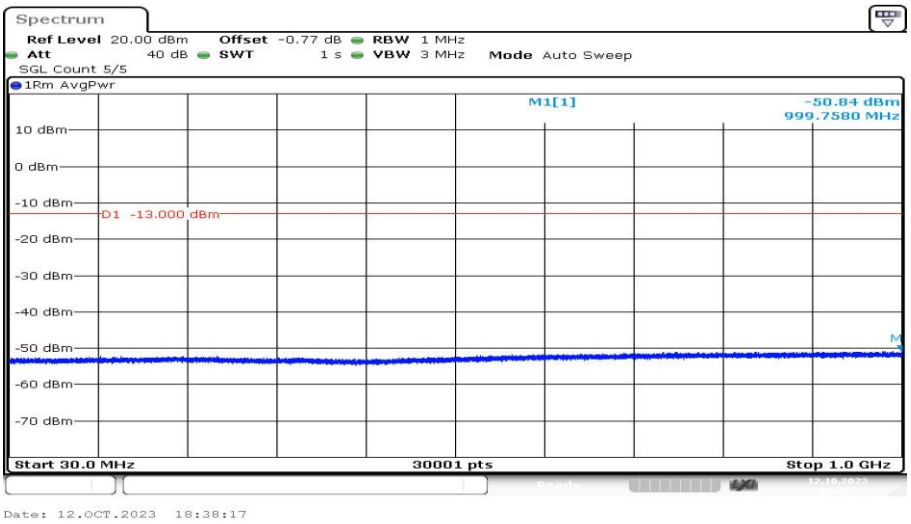
GSM1900-661-0-3000~18000MHz-PASS



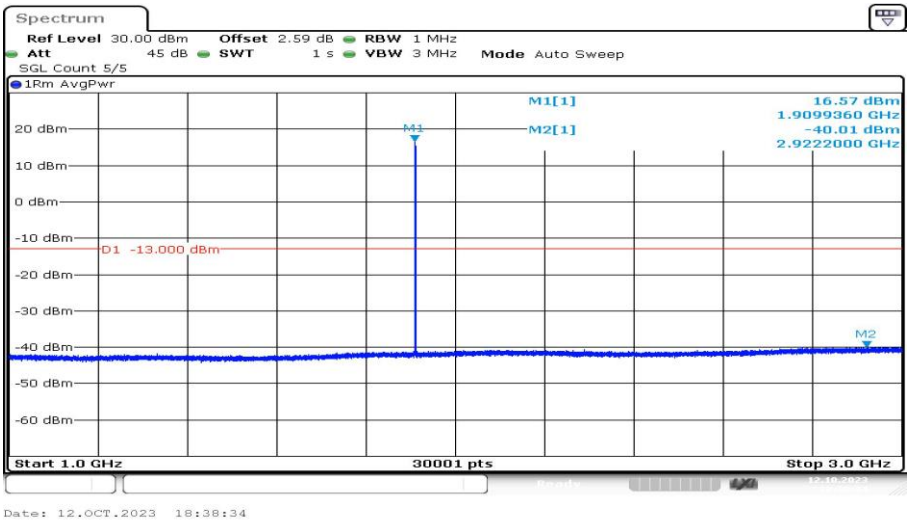
GSM1900-810-0-0.009~0.15MHz-PASS



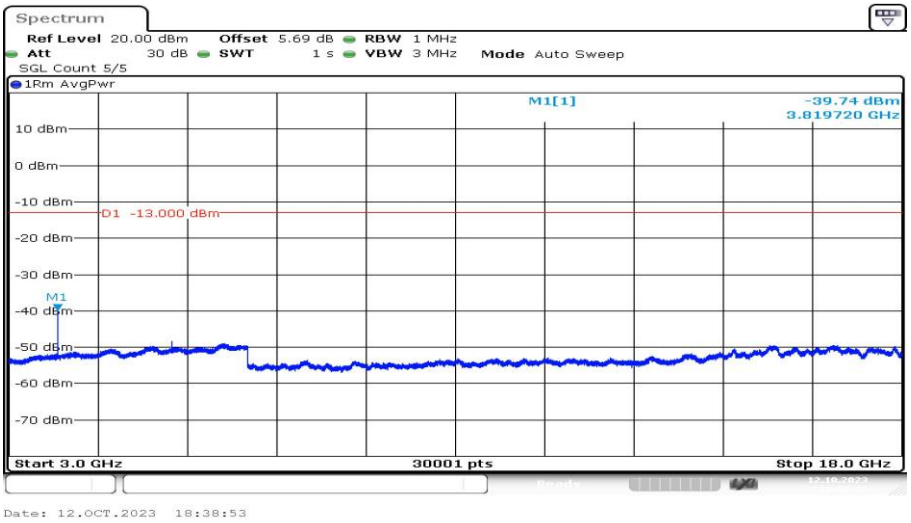
GSM1900-810-0-0.15~30MHz-PASS



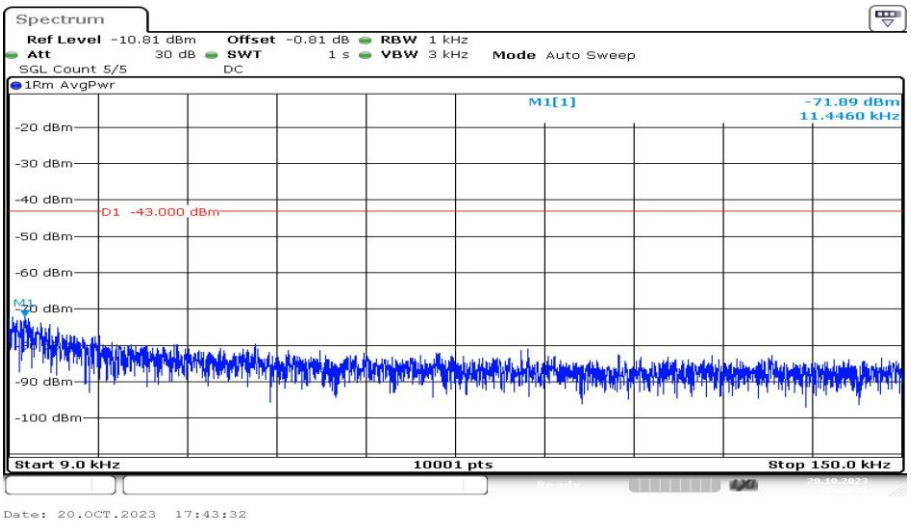
GSM1900-810-0-30~1000MHz-PASS



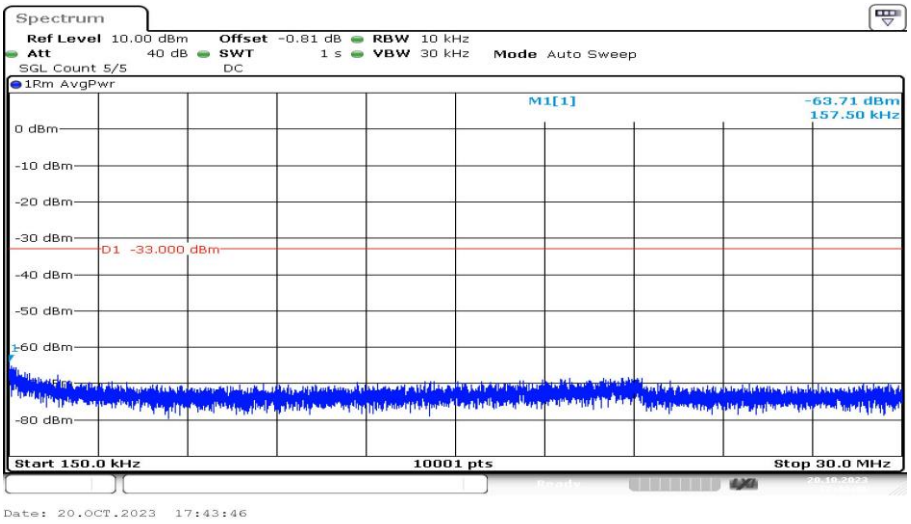
GSM1900-810-0-1000~3000MHz-PASS



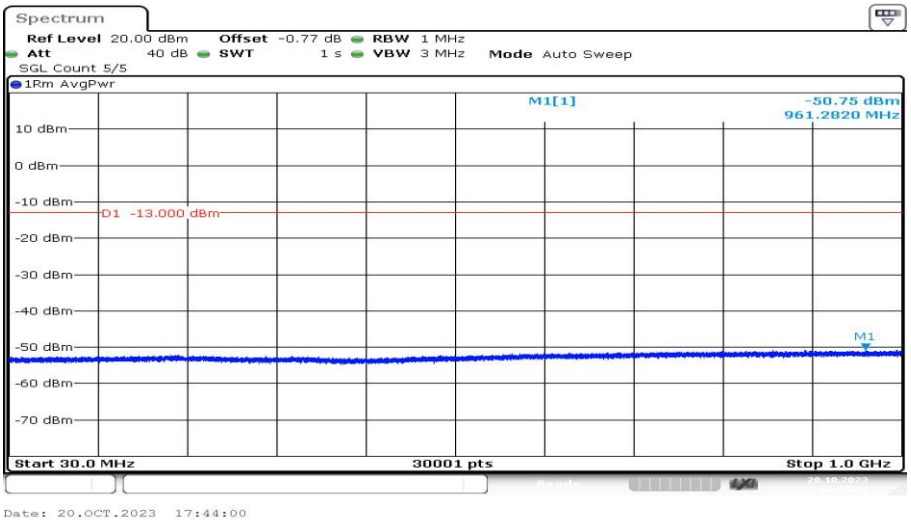
GSM1900-810-0-3000~18000MHz-PASS



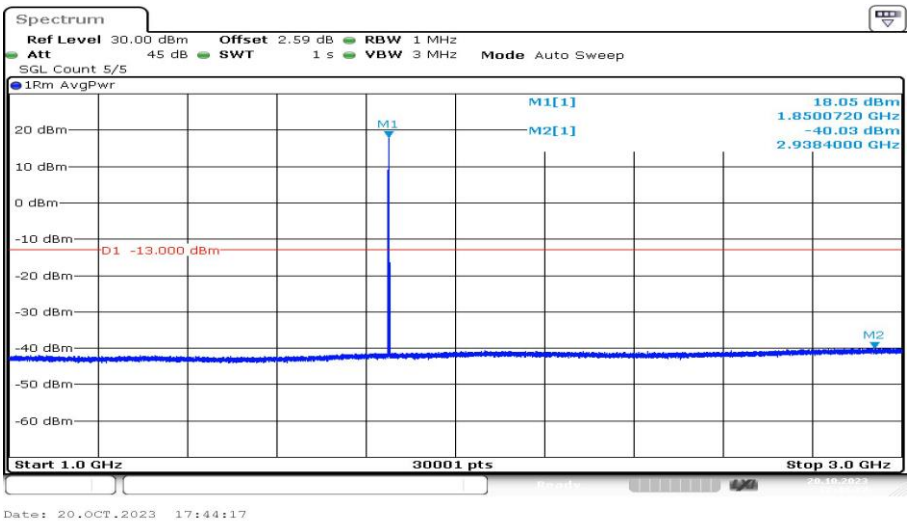
GPRS1900-512-0-0.009~0.15MHz-PASS



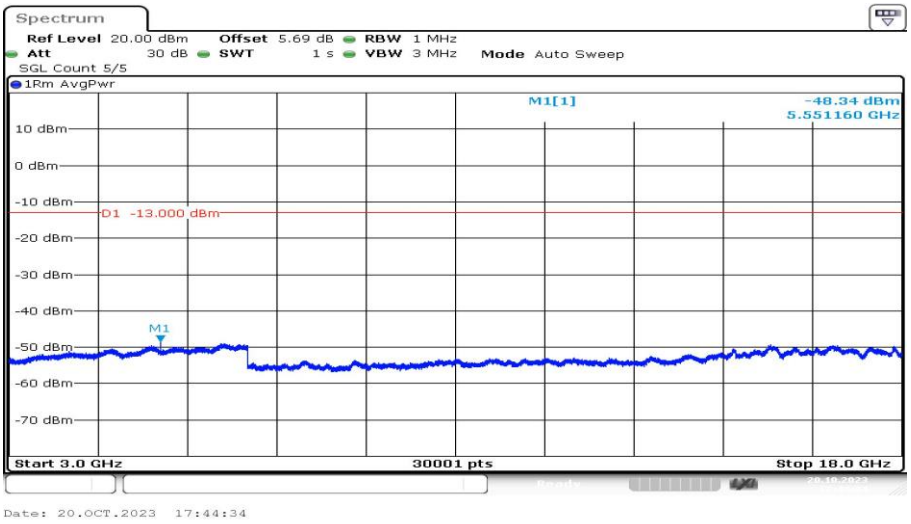
GPRS1900-512-0-0.15~30MHz-PASS



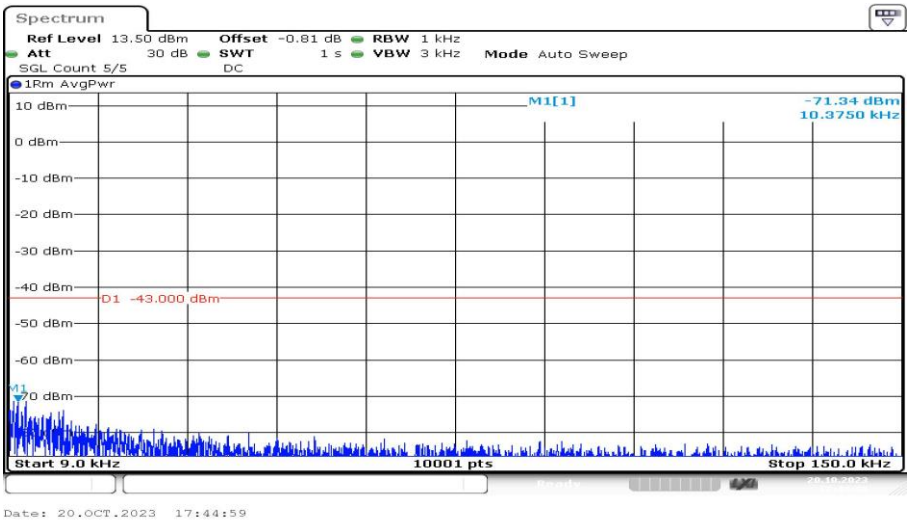
GPRS1900-512-0-30~1000MHz-PASS



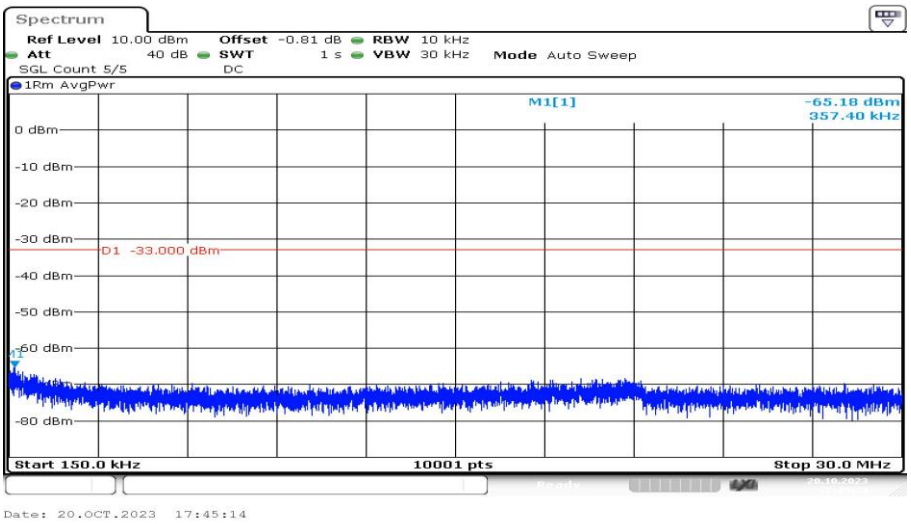
GPRS1900-512-0-1000~3000MHz-PASS



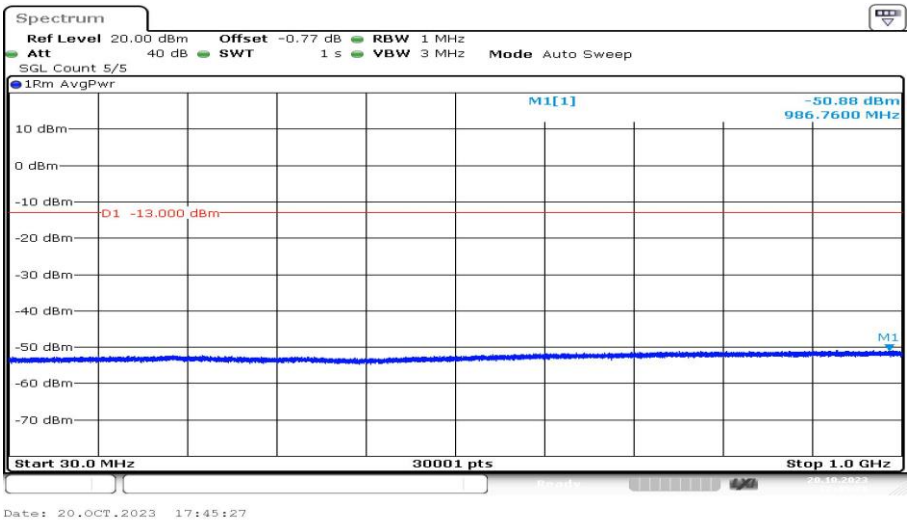
GPRS1900-512-0-3000~18000MHz-PASS



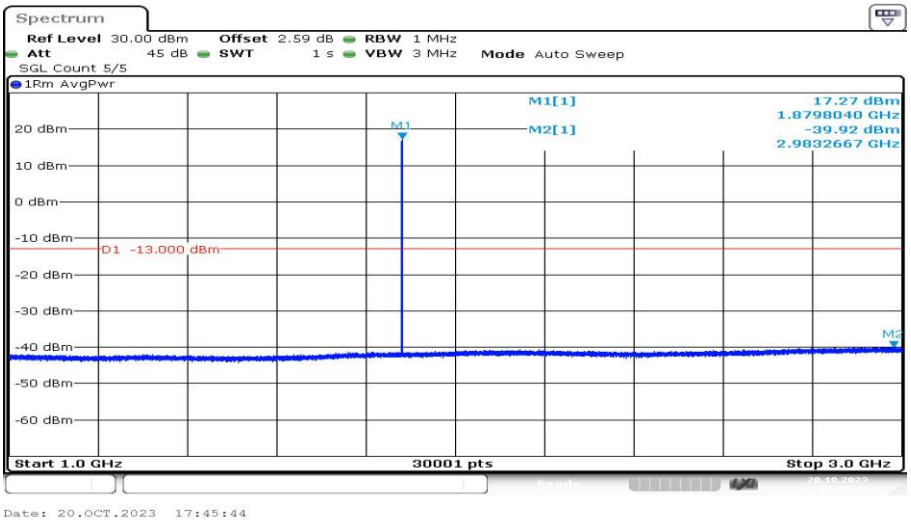
GPRS1900-661-0-0.009~0.15MHz-PASS



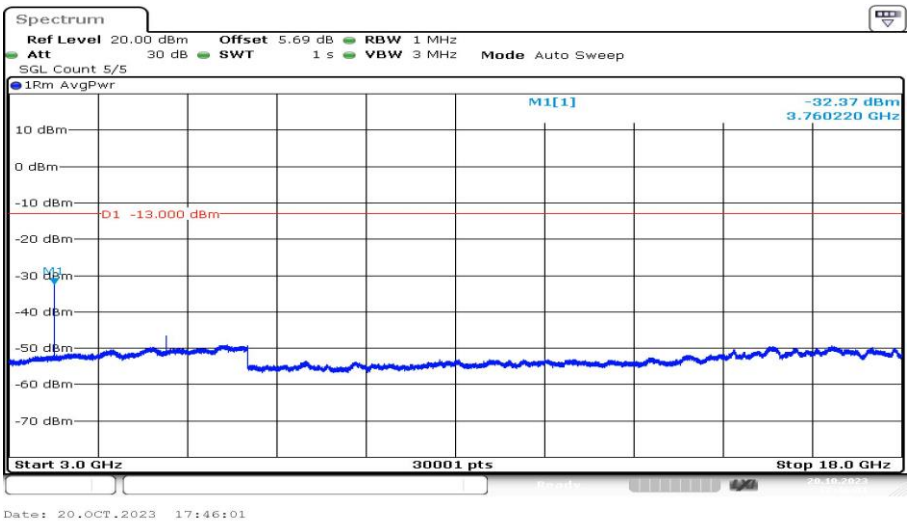
GPRS1900-661-0-0.15~30MHz-PASS



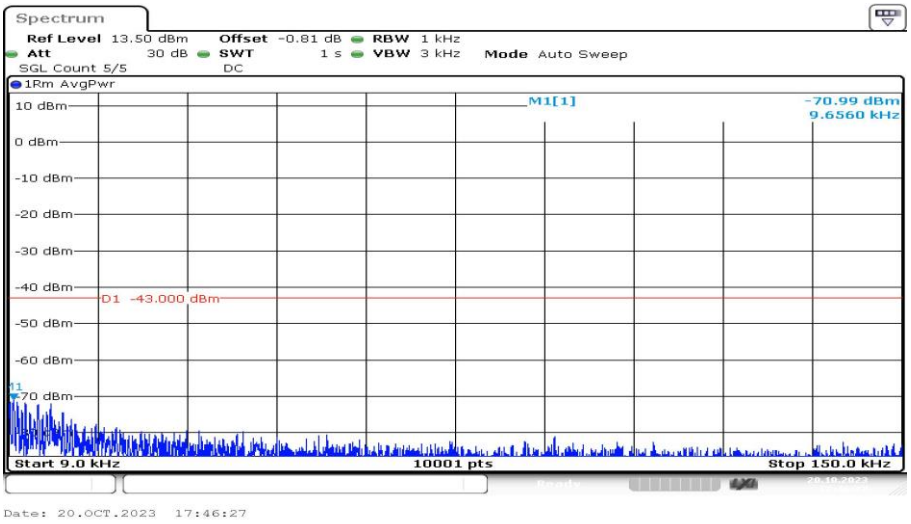
GPRS1900-661-0-30~1000MHz-PASS



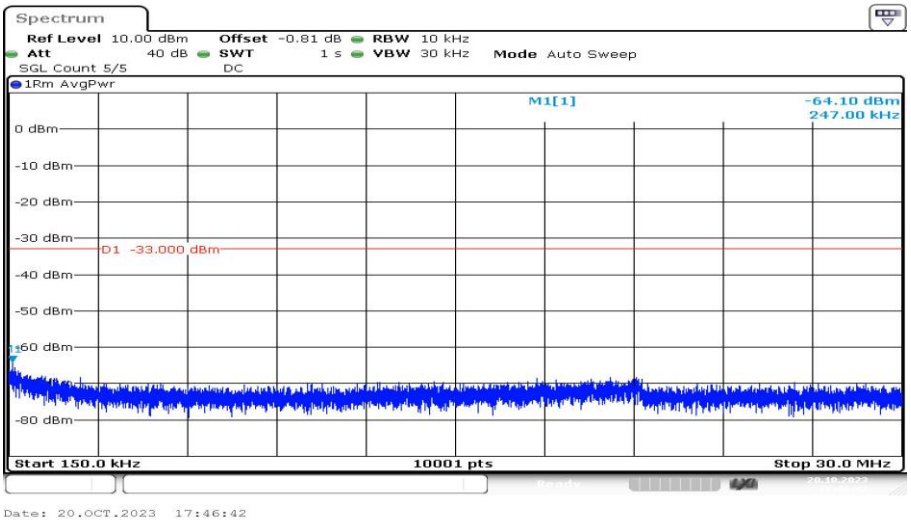
GPRS1900-661-0-1000~3000MHz-PASS



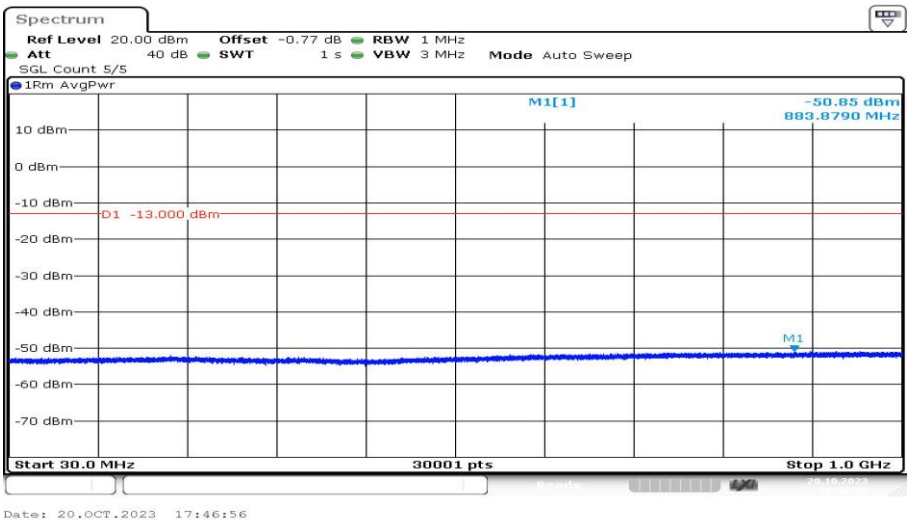
GPRS1900-661-0-3000~18000MHz-PASS



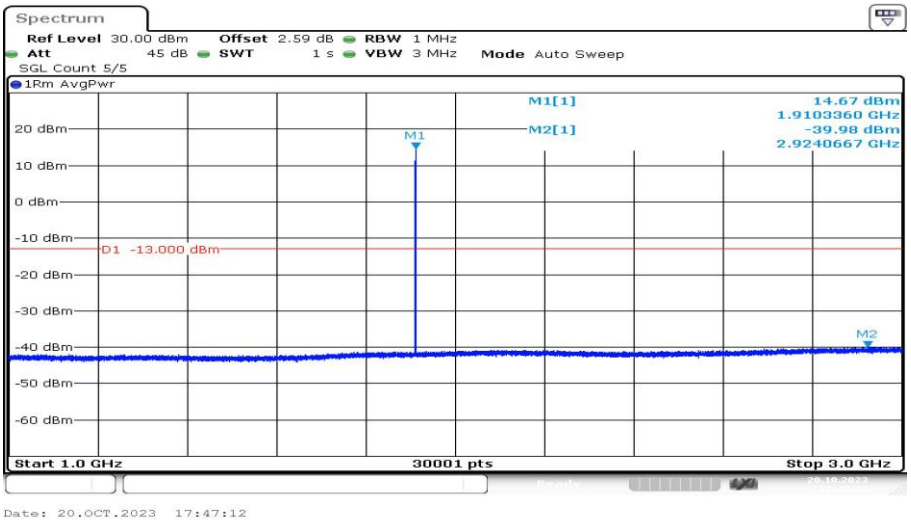
GPRS1900-810-0-0.009~0.15MHz-PASS



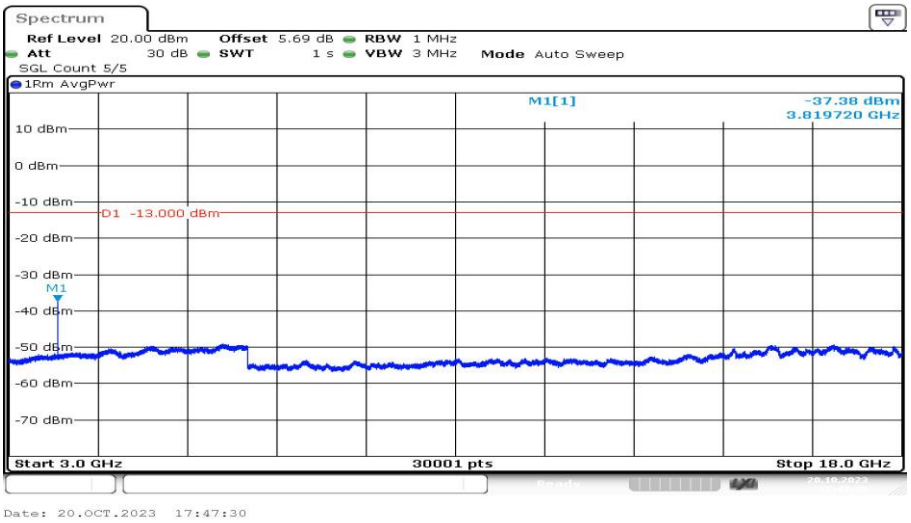
GPRS1900-810-0-0.15~30MHz-PASS



GPRS1900-810-0-30~1000MHz-PASS



GPRS1900-810-0-1000~3000MHz-PASS



GPRS1900-810-0-3000~18000MHz-PASS

Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	2.39	0.002900	±2.5	PASS
GSM850	128	VL	NT	6.91	0.008384	±2.5	PASS
GSM850	128	VH	NT	7.91	0.009597	±2.5	PASS
GSM850	190	VN	NT	4.04	0.004829	±2.5	PASS
GSM850	190	VL	NT	6.59	0.007877	±2.5	PASS
GSM850	190	VH	NT	8.78	0.010495	±2.5	PASS
GSM850	251	VN	NT	3.13	0.003688	±2.5	PASS
GSM850	251	VL	NT	9.59	0.011298	±2.5	PASS
GSM850	251	VH	NT	9.81	0.011557	±2.5	PASS
GPRS850	128	VN	NT	1.29	0.001565	±2.5	PASS
GPRS850	128	VL	NT	0.45	0.000546	±2.5	PASS
GPRS850	128	VH	NT	2.87	0.003482	±2.5	PASS
GPRS850	190	VN	NT	2.32	0.002773	±2.5	PASS
GPRS850	190	VL	NT	2.32	0.002773	±2.5	PASS
GPRS850	190	VH	NT	3.91	0.004674	±2.5	PASS
GPRS850	251	VN	NT	4.04	0.004760	±2.5	PASS
GPRS850	251	VL	NT	5.04	0.005938	±2.5	PASS
GPRS850	251	VH	NT	3.52	0.004147	±2.5	PASS
GSM1900	512	VN	NT	27.12	0.014658	±2.5	PASS
GSM1900	512	VL	NT	24.92	0.013469	±2.5	PASS
GSM1900	512	VH	NT	21.28	0.011501	±2.5	PASS
GSM1900	661	VN	NT	22.12	0.011766	±2.5	PASS
GSM1900	661	VL	NT	25.05	0.013324	±2.5	PASS
GSM1900	661	VH	NT	24.89	0.013239	±2.5	PASS
GSM1900	810	VN	NT	26.54	0.013897	±2.5	PASS
GSM1900	810	VL	NT	30.09	0.015756	±2.5	PASS
GSM1900	810	VH	NT	29.61	0.015504	±2.5	PASS
GPRS1900	512	VN	NT	23.05	0.012458	±2.5	PASS
GPRS1900	512	VL	NT	22.79	0.012318	±2.5	PASS
GPRS1900	512	VH	NT	20.76	0.011220	±2.5	PASS
GPRS1900	661	VN	NT	24.12	0.012830	±2.5	PASS
GPRS1900	661	VL	NT	14.46	0.007691	±2.5	PASS
GPRS1900	661	VH	NT	17.56	0.009340	±2.5	PASS

GPRS1900	810	VN	NT	26.67	0.013965	±2.5	PASS
GPRS1900	810	VL	NT	22.34	0.011698	±2.5	PASS
GPRS1900	810	VH	NT	26.51	0.013881	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	4.52	0.005484	±2.5	PASS
GSM850	128	NV	-20	4.49	0.005448	±2.5	PASS
GSM850	128	NV	-10	3.62	0.004392	±2.5	PASS
GSM850	128	NV	0	4.58	0.005557	±2.5	PASS
GSM850	128	NV	10	5.04	0.006115	±2.5	PASS
GSM850	128	NV	20	3.91	0.004744	±2.5	PASS
GSM850	128	NV	30	2.29	0.002778	±2.5	PASS
GSM850	128	NV	40	6.39	0.007753	±2.5	PASS
GSM850	128	NV	50	0.94	0.001140	±2.5	PASS
GSM850	190	NV	-30	5.52	0.006598	±2.5	PASS
GSM850	190	NV	-20	3.03	0.003622	±2.5	PASS
GSM850	190	NV	-10	1.94	0.002319	±2.5	PASS
GSM850	190	NV	0	2.84	0.003395	±2.5	PASS
GSM850	190	NV	10	-0.29	-0.000347	±2.5	PASS
GSM850	190	NV	20	3.52	0.004208	±2.5	PASS
GSM850	190	NV	30	-0.10	-0.000120	±2.5	PASS
GSM850	190	NV	40	0.71	0.000849	±2.5	PASS
GSM850	190	NV	50	1.19	0.001422	±2.5	PASS
GSM850	251	NV	-30	9.56	0.011263	±2.5	PASS
GSM850	251	NV	-20	9.43	0.011110	±2.5	PASS
GSM850	251	NV	-10	5.88	0.006927	±2.5	PASS
GSM850	251	NV	0	8.94	0.010533	±2.5	PASS
GSM850	251	NV	10	11.33	0.013348	±2.5	PASS
GSM850	251	NV	20	8.30	0.009779	±2.5	PASS
GSM850	251	NV	30	8.04	0.009472	±2.5	PASS
GSM850	251	NV	40	6.36	0.007493	±2.5	PASS
GSM850	251	NV	50	9.40	0.011074	±2.5	PASS
GPRS850	128	NV	-30	0.74	0.000898	±2.5	PASS
GPRS850	128	NV	-20	7.39	0.008966	±2.5	PASS
GPRS850	128	NV	-10	11.75	0.014256	±2.5	PASS
GPRS850	128	NV	0	10.62	0.012885	±2.5	PASS
GPRS850	128	NV	10	11.56	0.014026	±2.5	PASS
GPRS850	128	NV	20	11.78	0.014293	±2.5	PASS
GPRS850	128	NV	30	9.91	0.012024	±2.5	PASS

GPRS850	128	NV	40	7.07	0.008578	±2.5	PASS
GPRS850	128	NV	50	11.88	0.014414	±2.5	PASS
GPRS850	190	NV	-30	1.36	0.001626	±2.5	PASS
GPRS850	190	NV	-20	2.97	0.003550	±2.5	PASS
GPRS850	190	NV	-10	8.07	0.009646	±2.5	PASS
GPRS850	190	NV	0	8.36	0.009993	±2.5	PASS
GPRS850	190	NV	10	7.68	0.009180	±2.5	PASS
GPRS850	190	NV	20	8.62	0.010304	±2.5	PASS
GPRS850	190	NV	30	10.56	0.012623	±2.5	PASS
GPRS850	190	NV	40	7.91	0.009455	±2.5	PASS
GPRS850	190	NV	50	7.01	0.008379	±2.5	PASS
GPRS850	251	NV	-30	8.68	0.010226	±2.5	PASS
GPRS850	251	NV	-20	3.26	0.003841	±2.5	PASS
GPRS850	251	NV	-10	2.52	0.002969	±2.5	PASS
GPRS850	251	NV	0	3.20	0.003770	±2.5	PASS
GPRS850	251	NV	10	2.36	0.002780	±2.5	PASS
GPRS850	251	NV	20	4.26	0.005019	±2.5	PASS
GPRS850	251	NV	30	-4.49	-0.005290	±2.5	PASS
GPRS850	251	NV	40	6.13	0.007222	±2.5	PASS
GPRS850	251	NV	50	8.10	0.009543	±2.5	PASS
GSM1900	512	NV	-30	22.31	0.012058	±2.5	PASS
GSM1900	512	NV	-20	23.08	0.012474	±2.5	PASS
GSM1900	512	NV	-10	13.82	0.007469	±2.5	PASS
GSM1900	512	NV	0	22.47	0.012145	±2.5	PASS
GSM1900	512	NV	10	28.64	0.015479	±2.5	PASS
GSM1900	512	NV	20	21.21	0.011464	±2.5	PASS
GSM1900	512	NV	30	24.83	0.013420	±2.5	PASS
GSM1900	512	NV	40	26.64	0.014398	±2.5	PASS
GSM1900	512	NV	50	28.31	0.015301	±2.5	PASS
GSM1900	661	NV	-30	22.60	0.012021	±2.5	PASS
GSM1900	661	NV	-20	12.82	0.006819	±2.5	PASS
GSM1900	661	NV	-10	21.31	0.011335	±2.5	PASS
GSM1900	661	NV	0	19.44	0.010340	±2.5	PASS
GSM1900	661	NV	10	21.95	0.011676	±2.5	PASS
GSM1900	661	NV	20	25.80	0.013723	±2.5	PASS
GSM1900	661	NV	30	17.79	0.009463	±2.5	PASS
GSM1900	661	NV	40	17.43	0.009271	±2.5	PASS
GSM1900	661	NV	50	19.92	0.010596	±2.5	PASS
GSM1900	810	NV	-30	27.41	0.014352	±2.5	PASS
GSM1900	810	NV	-20	27.73	0.014520	±2.5	PASS
GSM1900	810	NV	-10	24.60	0.012881	±2.5	PASS

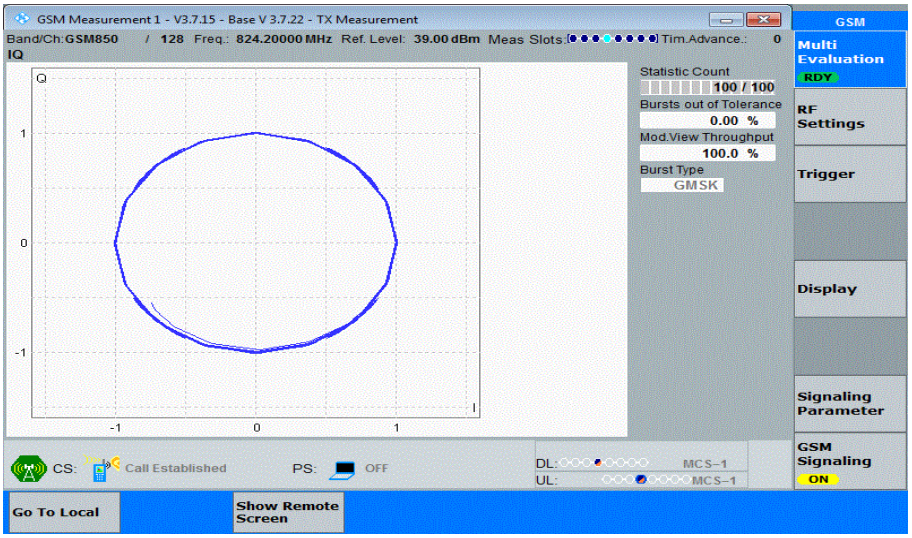
GSM1900	810	NV	0	28.70	0.015028	±2.5	PASS
GSM1900	810	NV	10	29.41	0.015400	±2.5	PASS
GSM1900	810	NV	20	26.70	0.013981	±2.5	PASS
GSM1900	810	NV	30	24.44	0.012797	±2.5	PASS
GSM1900	810	NV	40	25.54	0.013373	±2.5	PASS
GSM1900	810	NV	50	17.56	0.009195	±2.5	PASS
GPRS1900	512	NV	-30	22.24	0.012020	±2.5	PASS
GPRS1900	512	NV	-20	38.03	0.020555	±2.5	PASS
GPRS1900	512	NV	-10	38.87	0.021009	±2.5	PASS
GPRS1900	512	NV	0	31.70	0.017133	±2.5	PASS
GPRS1900	512	NV	10	37.61	0.020328	±2.5	PASS
GPRS1900	512	NV	20	36.13	0.019528	±2.5	PASS
GPRS1900	512	NV	30	31.03	0.016771	±2.5	PASS
GPRS1900	512	NV	40	35.77	0.019333	±2.5	PASS
GPRS1900	512	NV	50	36.26	0.019598	±2.5	PASS
GPRS1900	661	NV	-30	15.14	0.008053	±2.5	PASS
GPRS1900	661	NV	-20	16.37	0.008707	±2.5	PASS
GPRS1900	661	NV	-10	28.28	0.015043	±2.5	PASS
GPRS1900	661	NV	0	33.77	0.017963	±2.5	PASS
GPRS1900	661	NV	10	24.63	0.013101	±2.5	PASS
GPRS1900	661	NV	20	32.61	0.017346	±2.5	PASS
GPRS1900	661	NV	30	29.86	0.015883	±2.5	PASS
GPRS1900	661	NV	40	38.16	0.020298	±2.5	PASS
GPRS1900	661	NV	50	30.77	0.016367	±2.5	PASS
GPRS1900	810	NV	-30	24.67	0.012918	±2.5	PASS
GPRS1900	810	NV	-20	21.57	0.011294	±2.5	PASS
GPRS1900	810	NV	-10	14.72	0.007708	±2.5	PASS
GPRS1900	810	NV	0	15.82	0.008284	±2.5	PASS
GPRS1900	810	NV	10	-8.20	-0.004294	±2.5	PASS
GPRS1900	810	NV	20	30.12	0.015771	±2.5	PASS
GPRS1900	810	NV	30	35.09	0.018374	±2.5	PASS
GPRS1900	810	NV	40	29.12	0.015248	±2.5	PASS
GPRS1900	810	NV	50	34.48	0.018054	±2.5	PASS

Appendix G: Modulation Characteristics

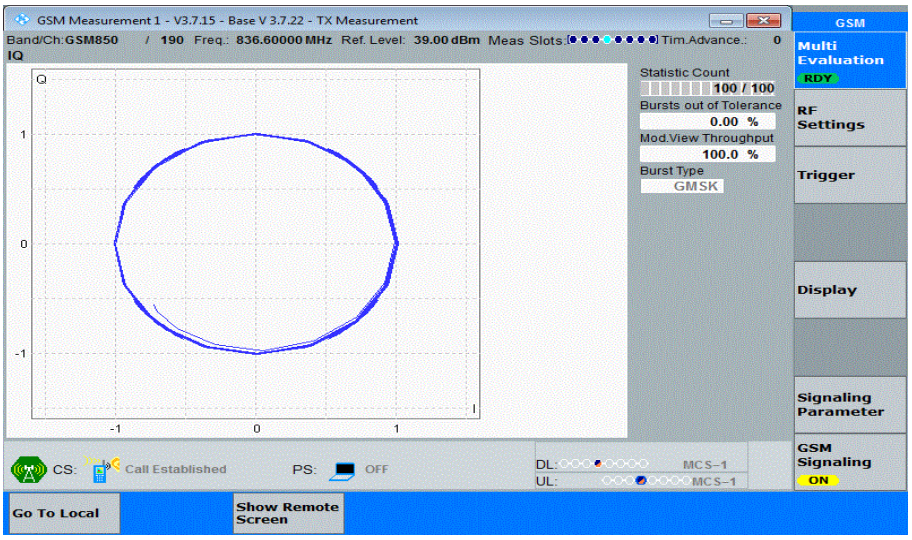
Test Result

Band	Channel	Result	Verdict
GSM850	128	PASS	PASS
GSM850	190	PASS	PASS
GSM850	251	PASS	PASS
GPRS850	128	PASS	PASS
GPRS850	190	PASS	PASS
GPRS850	251	PASS	PASS
GSM1900	512	PASS	PASS
GSM1900	661	PASS	PASS
GSM1900	810	PASS	PASS
GPRS1900	512	PASS	PASS
GPRS1900	661	PASS	PASS
GPRS1900	810	PASS	PASS

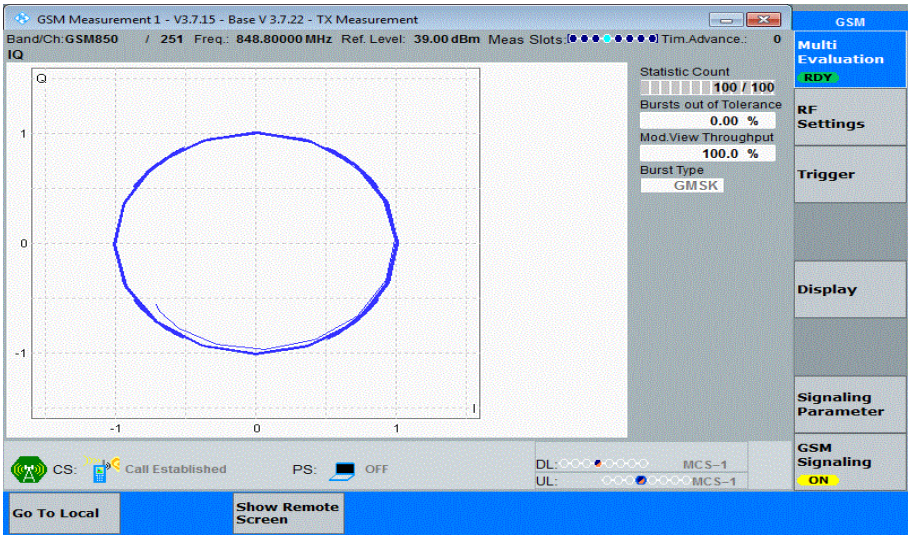
Test Graphs



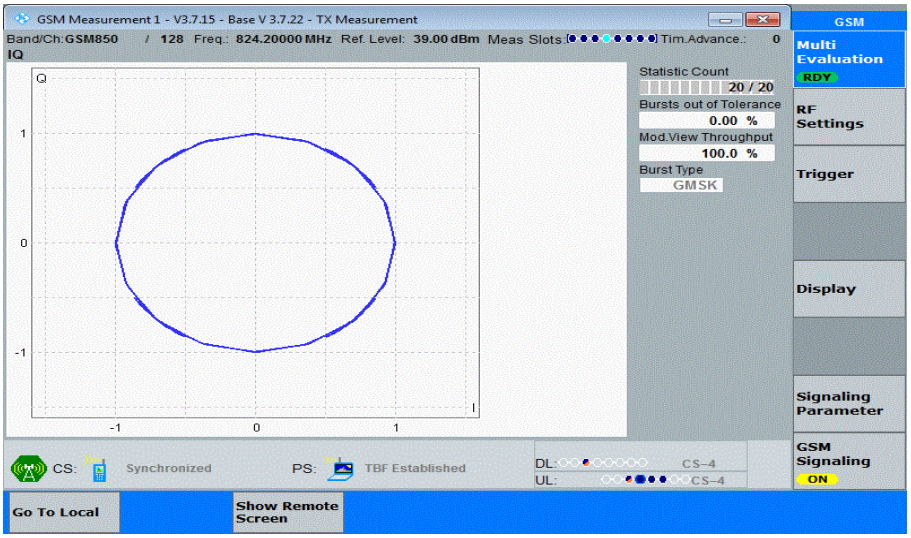
GSM850-128-5-PASS



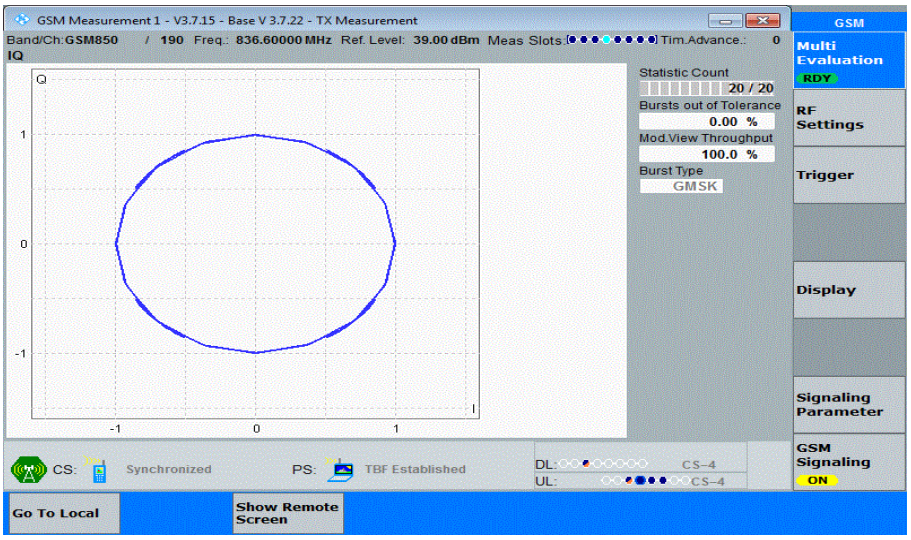
GSM850-190-5-PASS



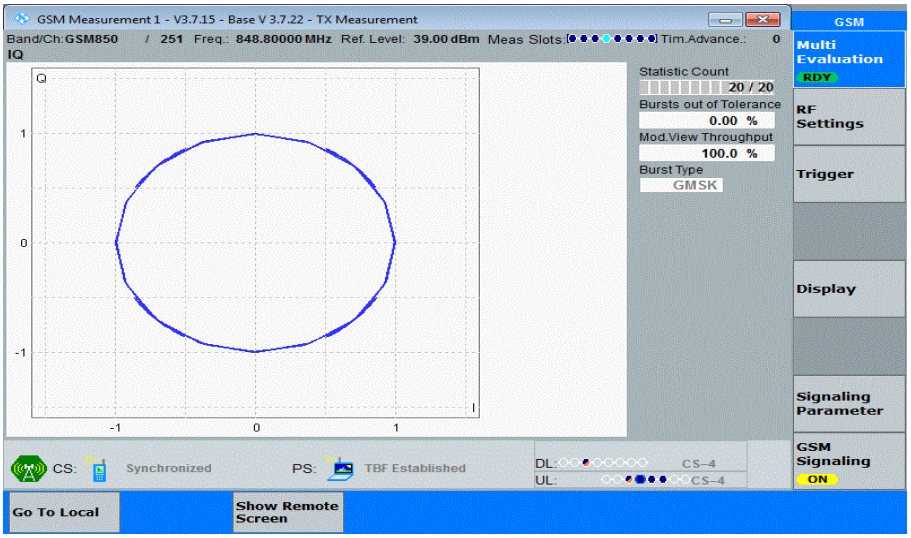
GSM850-251-5-PASS



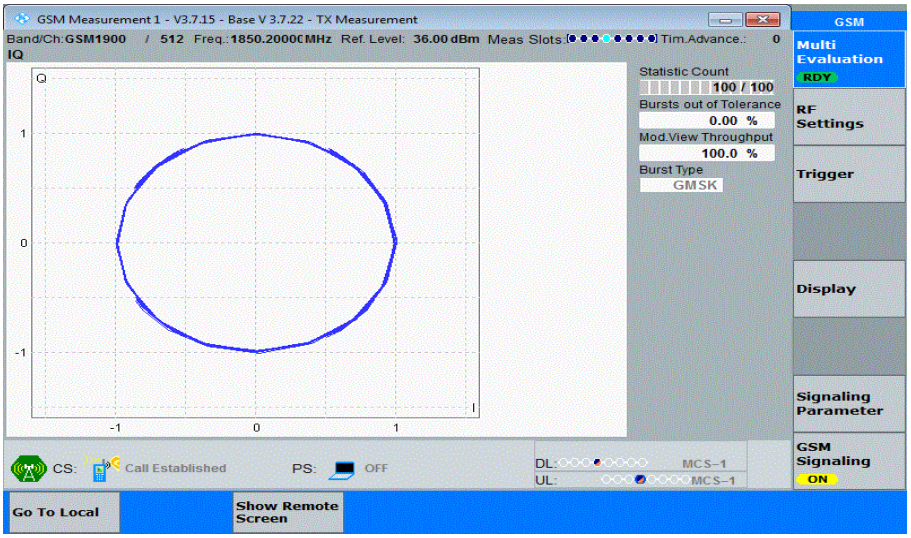
GPRS850-128-5-PASS



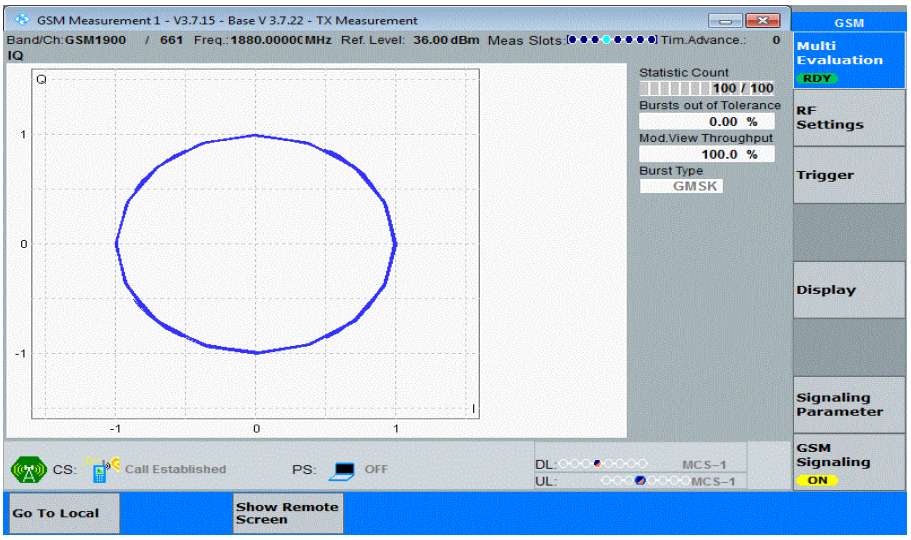
GPRS850-190-5-PASS



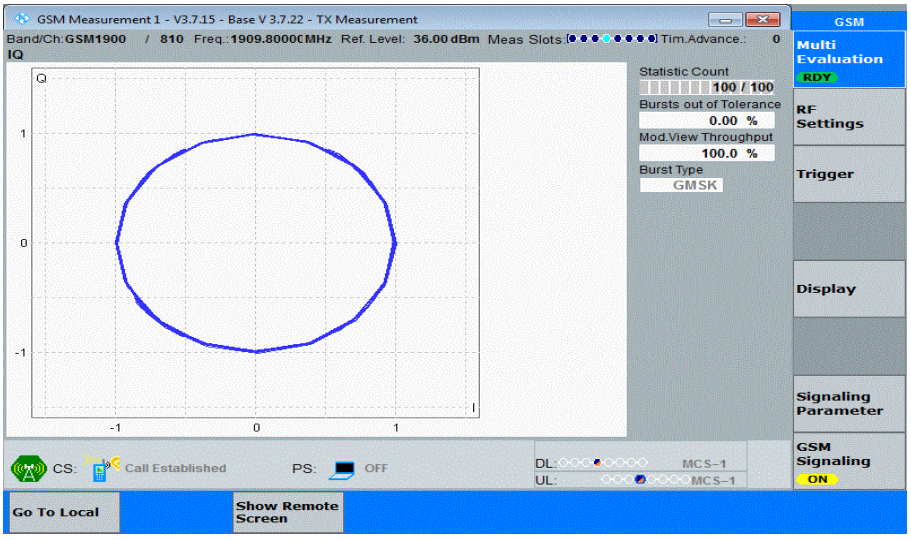
GPRS850-251-5-PASS



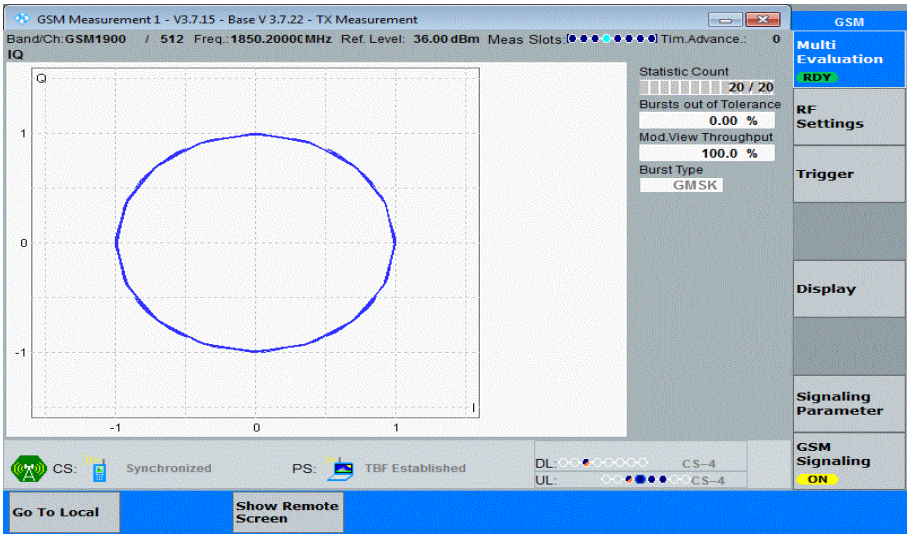
GSM1900-512-0-PASS



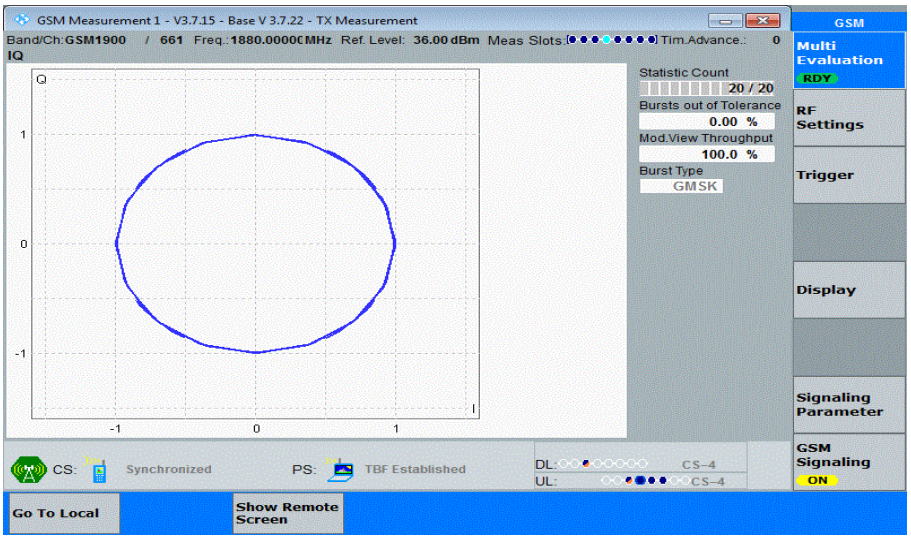
GSM1900-661-0-PASS



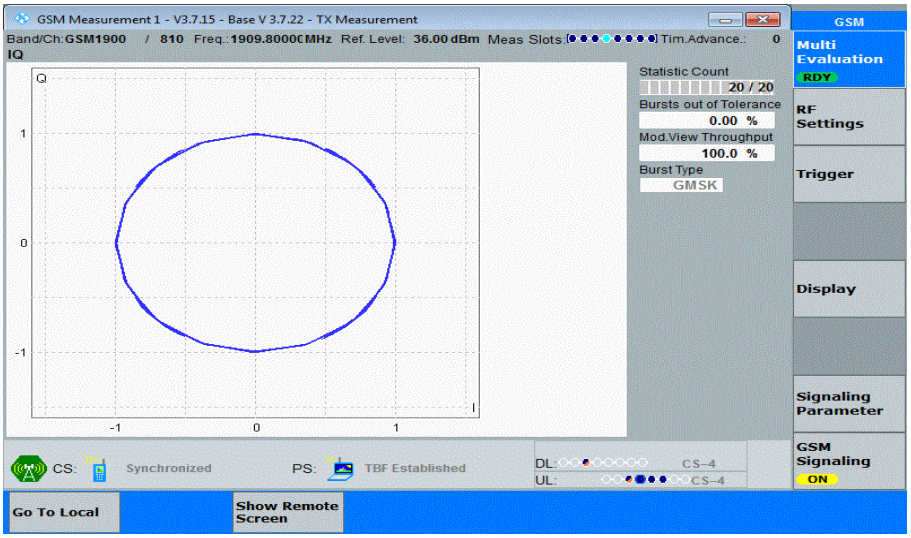
GSM1900-810-0-PASS



GPRS1900-512-0-PASS



GPRS1900-661-0-PASS



GPRS1900-810-0-PASS