

APPENDIX REPORT

Project No.	SHT2006062904EW	Radio Specification	GSM
Test sample No.	YPHT20060629002	Model No.	T350
Start test date	2020/6/29	Finish date	2020/7/3
Temperature	25°C	Humidity	50%
Test Engineer	Jess He	Auditor	<i>William.wang</i>

Appendix clause	Test item	Result
A	Conducted Output Power	PASS
B	Peak-to-Average Ratio	PASS
C	26 dB Bandwidth and Occupied Bandwidth	PASS
D	Band edge	PASS
E	Conducted Spurious Emission	PASS
F	Frequency Stability	PASS

8.1 Appendix A: Conducted Output Power

Test Result

Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	5	1	32.18	38.5	PASS
GPRS850	128	5	2	31.51	38.5	PASS
GPRS850	128	5	3	29.68	38.5	PASS
GPRS850	128	5	4	28.36	38.5	PASS
GPRS850	190	5	1	31.86	38.5	PASS
GPRS850	190	5	2	31.49	38.5	PASS
GPRS850	190	5	3	29.44	38.5	PASS
GPRS850	190	5	4	28.41	38.5	PASS
GPRS850	251	5	1	32.11	38.5	PASS
GPRS850	251	5	2	31.47	38.5	PASS
GPRS850	251	5	3	29.21	38.5	PASS
GPRS850	251	5	4	28.32	38.5	PASS
GPRS1900	512	0	1	27.87	33	PASS
GPRS1900	512	0	2	27.22	33	PASS
GPRS1900	512	0	3	25.39	33	PASS
GPRS1900	512	0	4	24.48	33	PASS
GPRS1900	661	0	1	27.95	33	PASS
GPRS1900	661	0	2	27.10	33	PASS
GPRS1900	661	0	3	25.34	33	PASS
GPRS1900	661	0	4	24.31	33	PASS
GPRS1900	810	0	1	27.74	33	PASS
GPRS1900	810	0	2	26.91	33	PASS
GPRS1900	810	0	3	24.89	33	PASS
GPRS1900	810	0	4	23.80	33	PASS

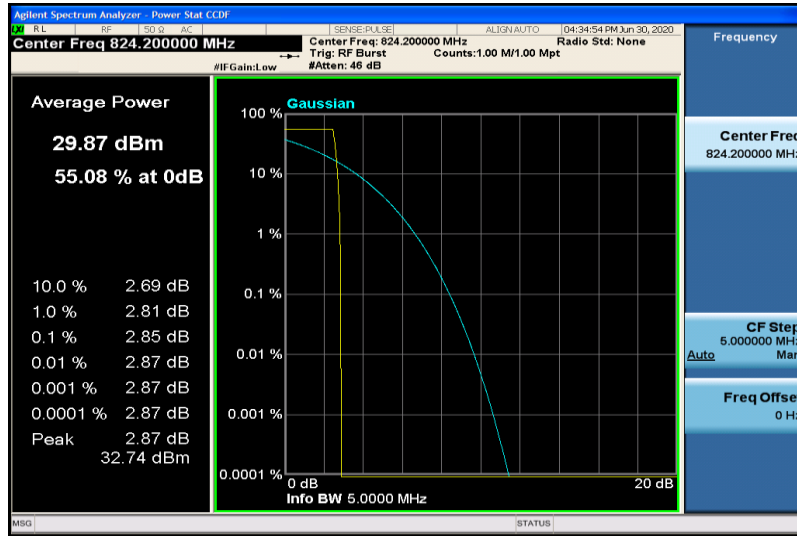
Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	8	1	26.45	38.5	PASS
EGPRS850	128	8	2	26.04	38.5	PASS
EGPRS850	128	8	3	23.96	38.5	PASS
EGPRS850	128	8	4	22.93	38.5	PASS
EGPRS850	190	8	1	26.43	38.5	PASS
EGPRS850	190	8	2	25.88	38.5	PASS
EGPRS850	190	8	3	23.80	38.5	PASS
EGPRS850	190	8	4	22.73	38.5	PASS
EGPRS850	251	8	1	26.44	38.5	PASS
EGPRS850	251	8	2	25.77	38.5	PASS
EGPRS850	251	8	3	23.98	38.5	PASS
EGPRS850	251	8	4	22.68	38.5	PASS
EGPRS1900	512	2	1	24.12	33	PASS
EGPRS1900	512	2	2	23.25	33	PASS
EGPRS1900	512	2	3	21.74	33	PASS
EGPRS1900	512	2	4	20.81	33	PASS
EGPRS1900	661	2	1	23.95	33	PASS
EGPRS1900	661	2	2	22.82	33	PASS
EGPRS1900	661	2	3	21.56	33	PASS
EGPRS1900	661	2	4	20.56	33	PASS
EGPRS1900	810	2	1	23.72	33	PASS
EGPRS1900	810	2	2	22.74	33	PASS
EGPRS1900	810	2	3	21.17	33	PASS
EGPRS1900	810	2	4	20.36	33	PASS

8.2 Appendix B: Peak-to-Average Ratio

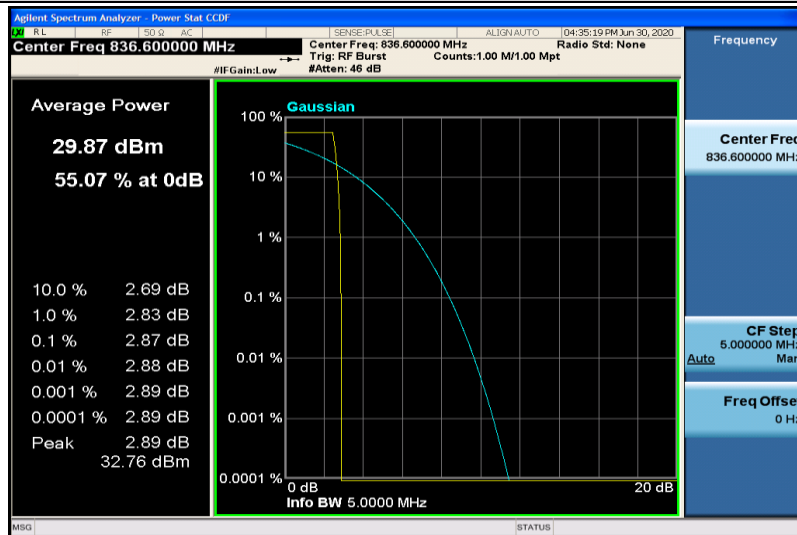
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
GPRS850	128	2.85	13	PASS
GPRS850	190	2.87	13	PASS
GPRS850	251	2.87	13	PASS
EGPRS850	128	3.97	13	PASS
EGPRS850	190	5.76	13	PASS
EGPRS850	251	5.83	13	PASS
GPRS1900	512	2.75	13	PASS
GPRS1900	661	2.75	13	PASS
GPRS1900	810	2.78	13	PASS
EGPRS1900	512	5.66	13	PASS
EGPRS1900	661	5.69	13	PASS
EGPRS1900	810	5.81	13	PASS

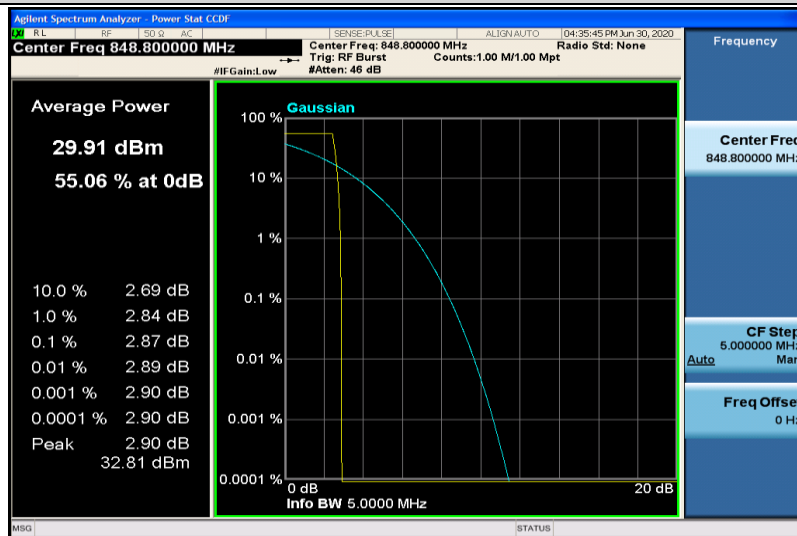
Test Graphs



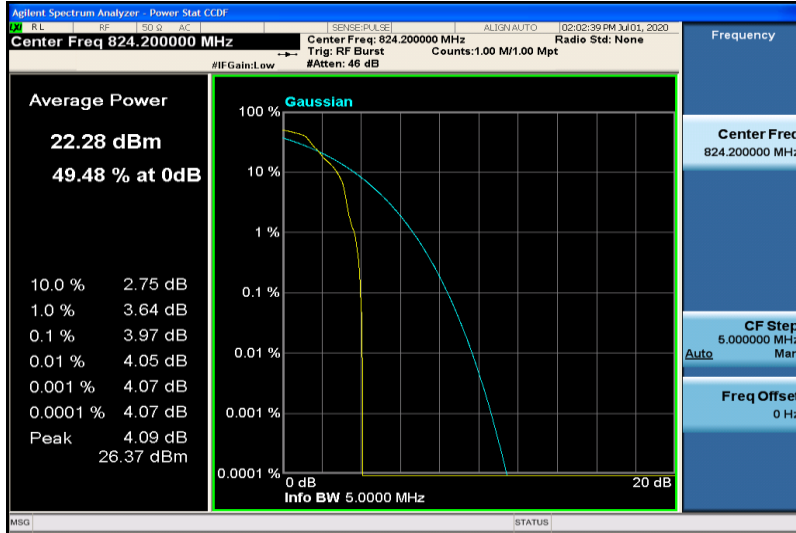
GPRS850-128



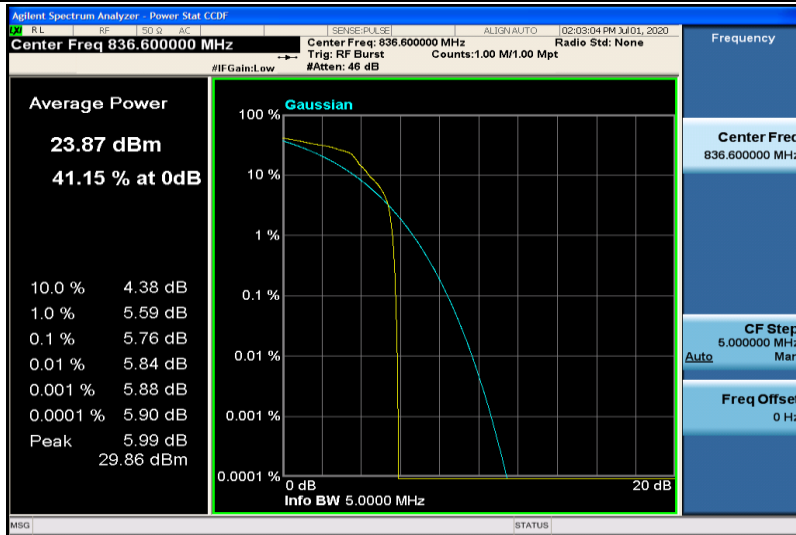
GPRS850-190



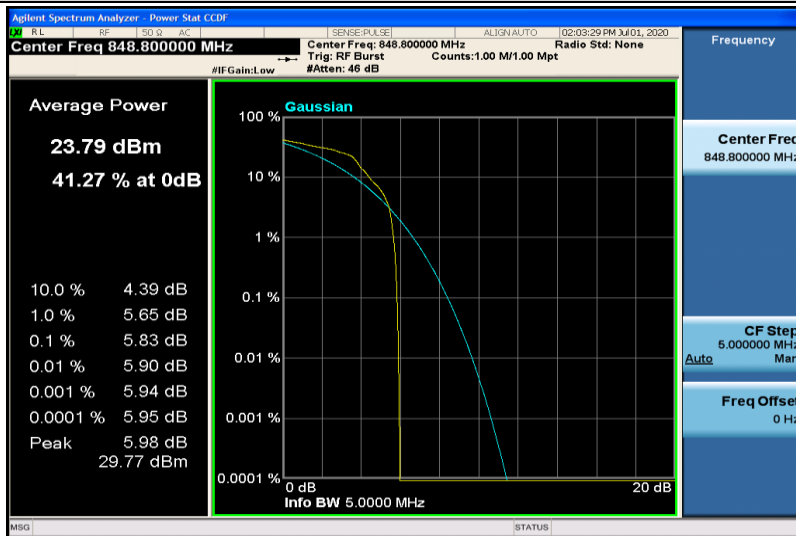
GPRS850-251



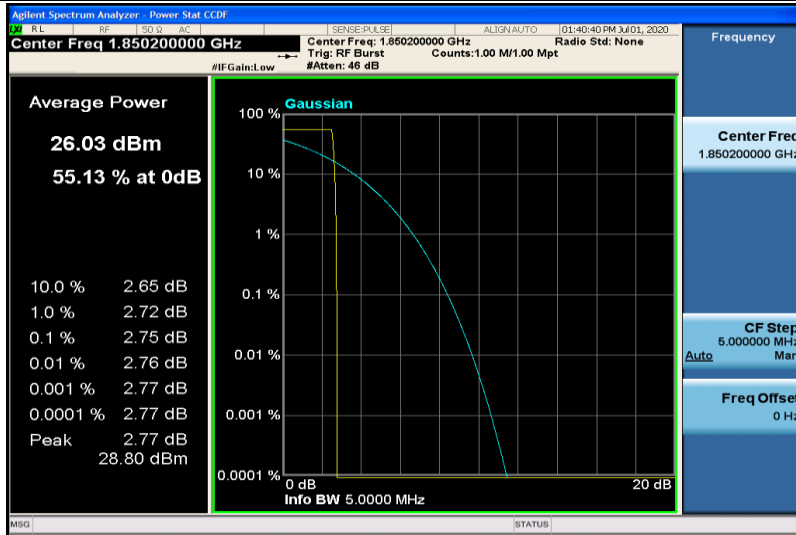
EGPRS850-128



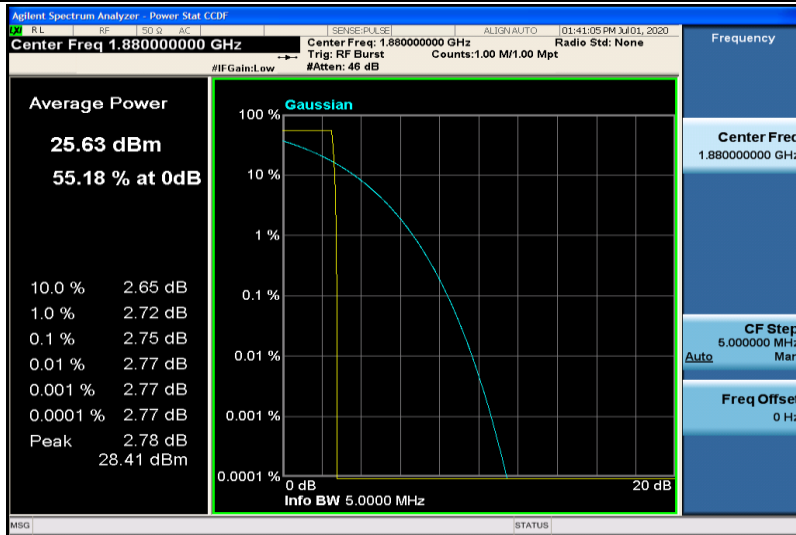
EGPRS850-190



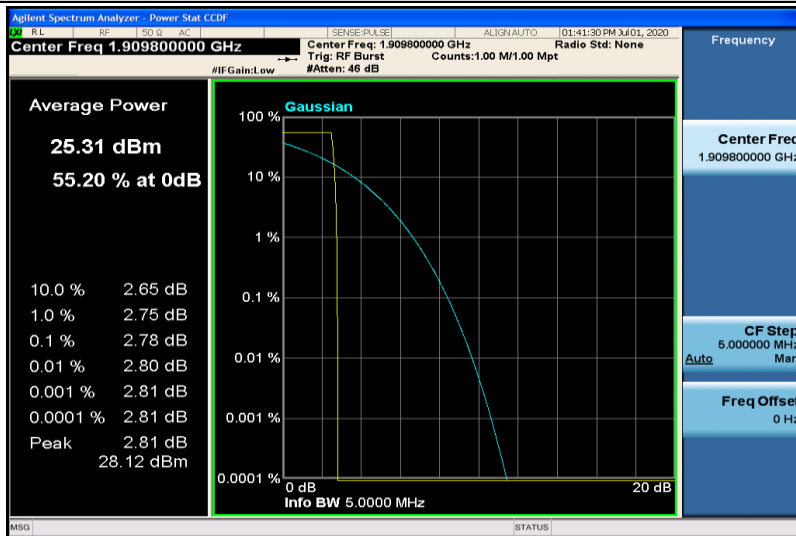
EGPRS850-251



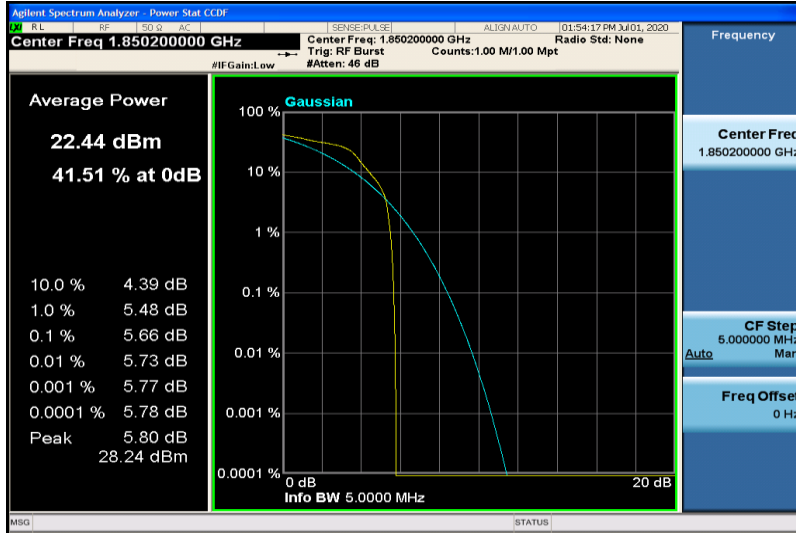
GPRS1900-512



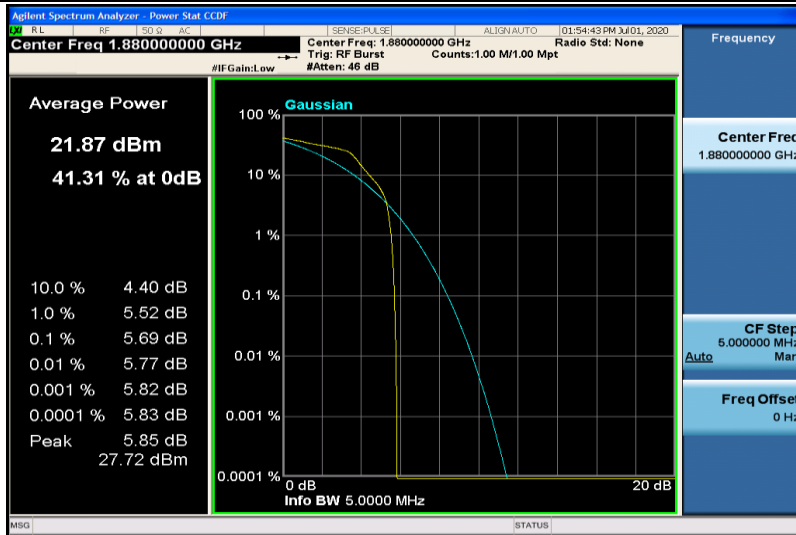
GPRS1900-661



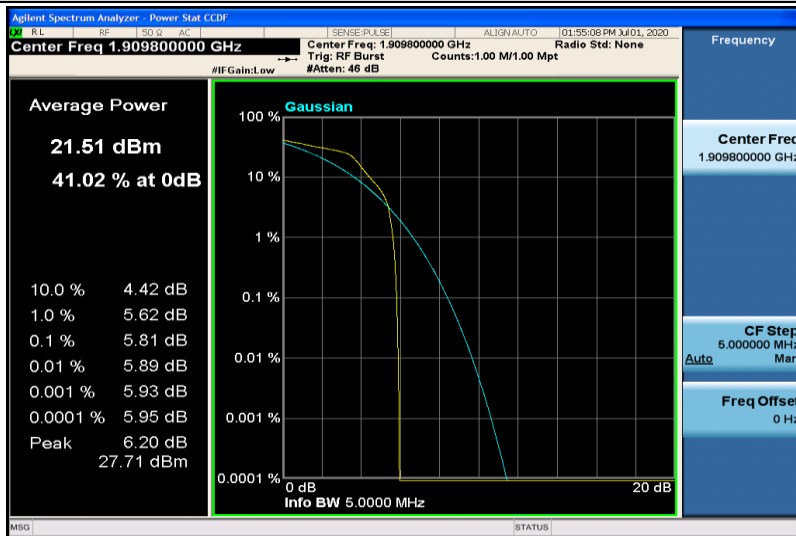
GPRS1900-810



EGPRS1900-512



EGPRS1900-661



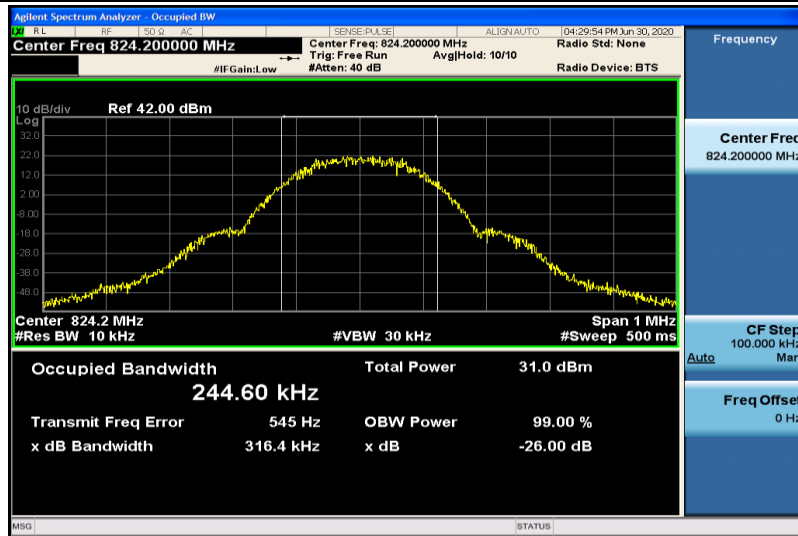
EGPRS1900-810

8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

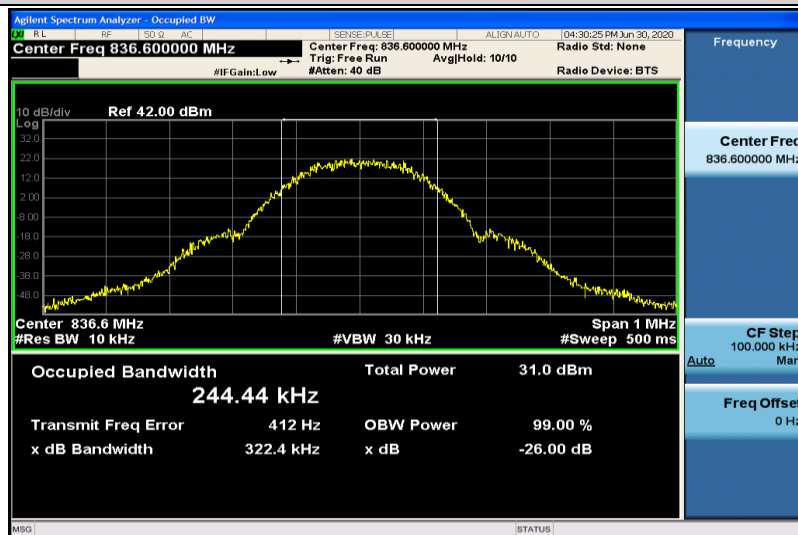
Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GPRS850	128	244.60	316.4	---	PASS
GPRS850	190	244.44	322.4	---	PASS
GPRS850	251	244.72	316.0	---	PASS
EGPRS850	128	243.75	312.8	---	PASS
EGPRS850	190	246.70	306.8	---	PASS
EGPRS850	251	245.92	309.7	---	PASS
GPRS1900	661	246.76	313.8	---	PASS
GPRS1900	810	241.31	310.4	---	PASS
EGPRS1900	512	244.82	308.7	---	PASS
EGPRS1900	661	244.66	307.4	---	PASS
EGPRS1900	810	245.03	314.8	---	PASS

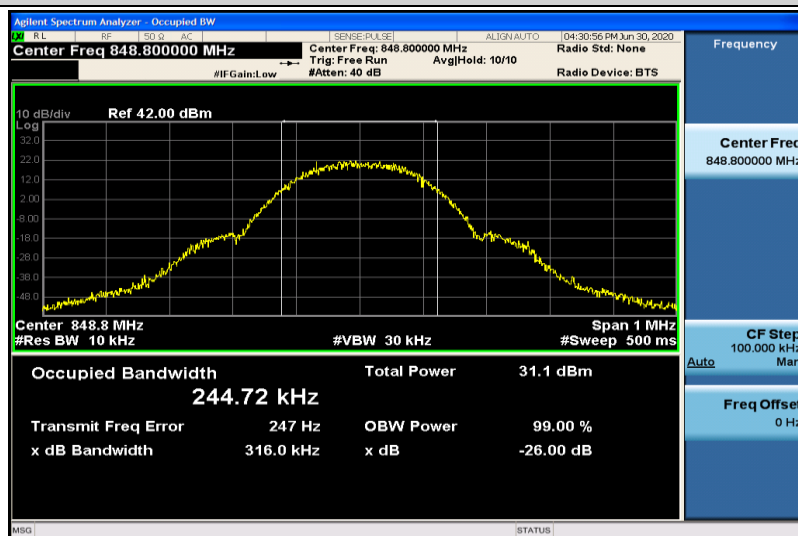
Test Graphs



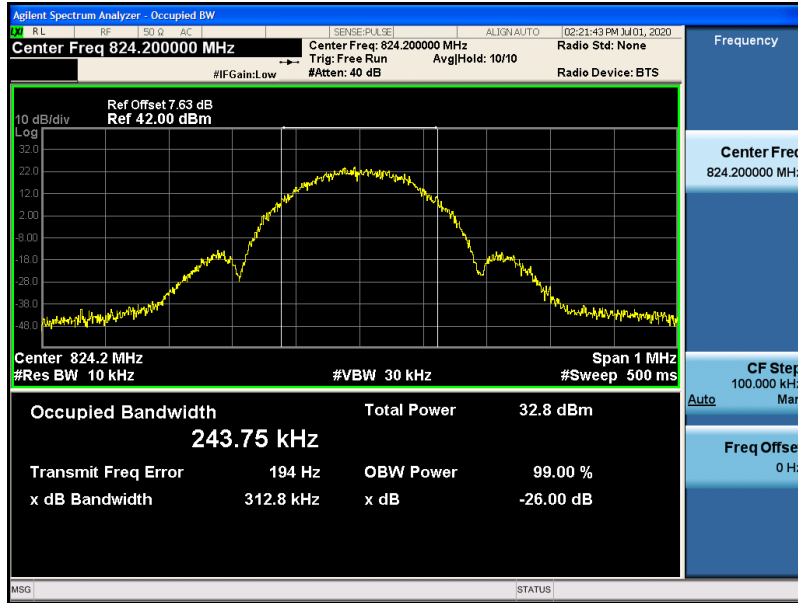
GPRS850-128



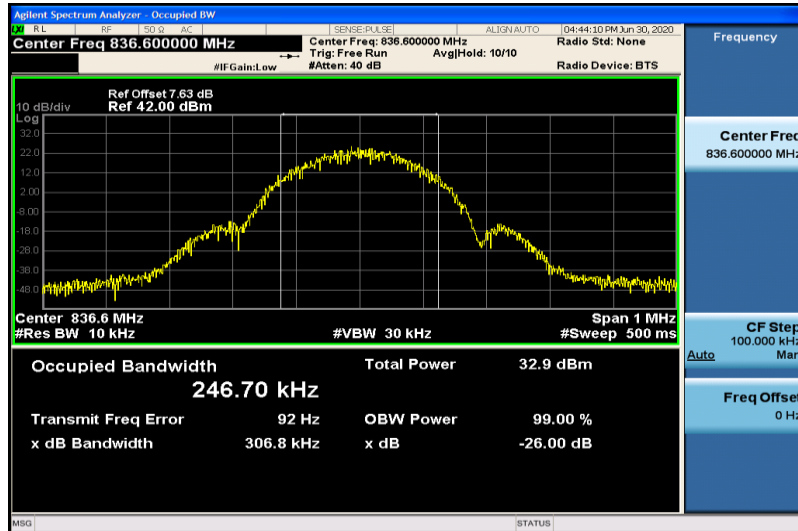
GPRS850-190



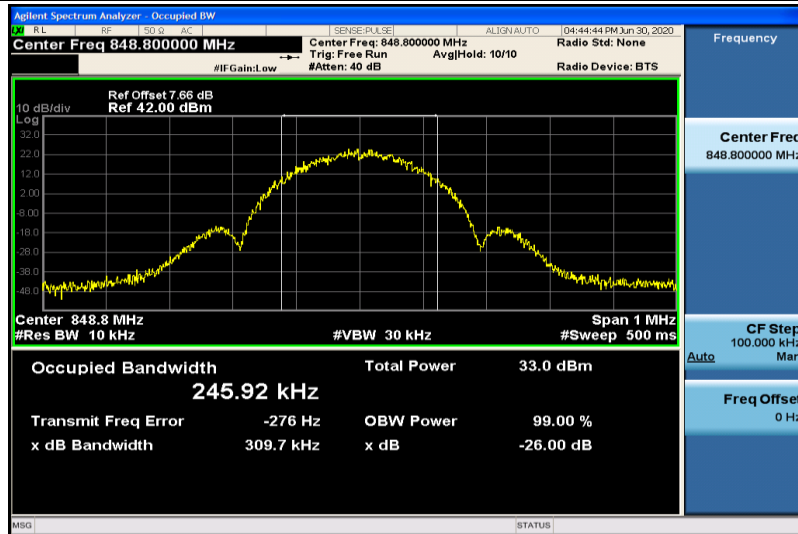
GPRS850-251



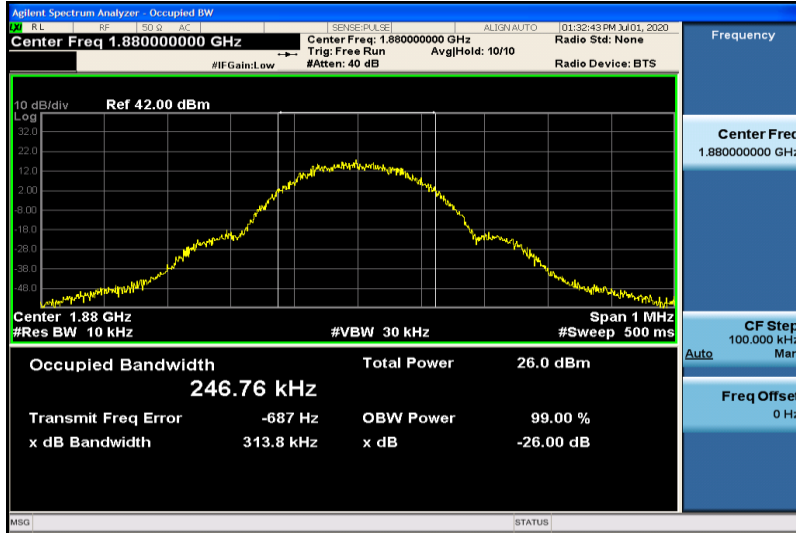
EGPRS850-128



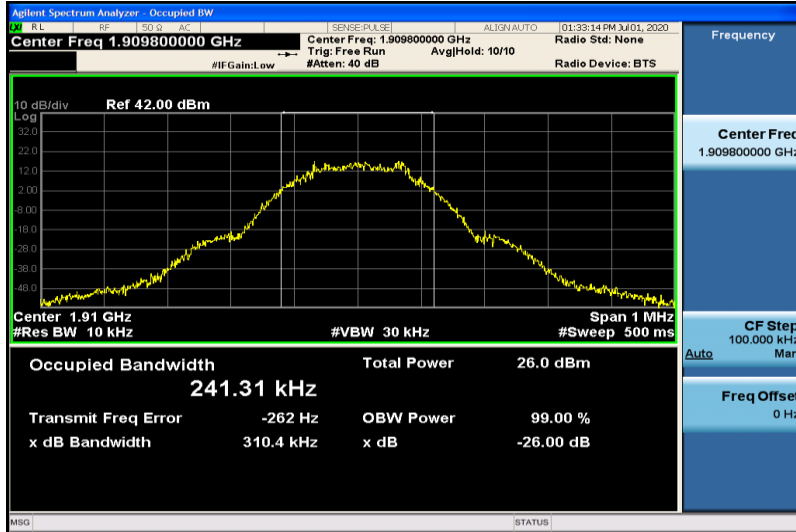
EGPRS850-190



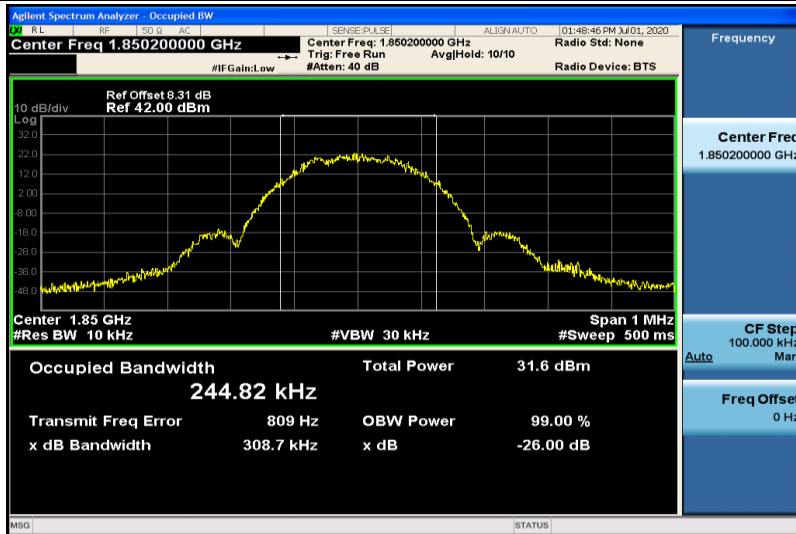
EGPRS850-251



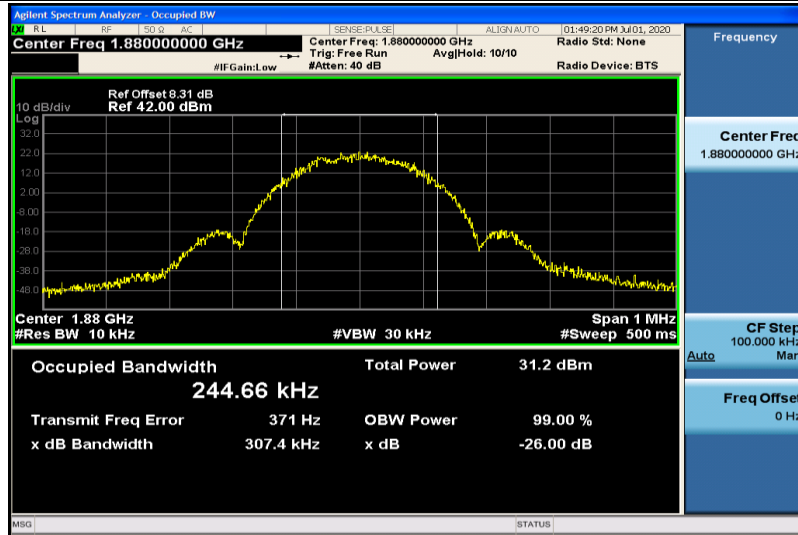
GPRS1900-661



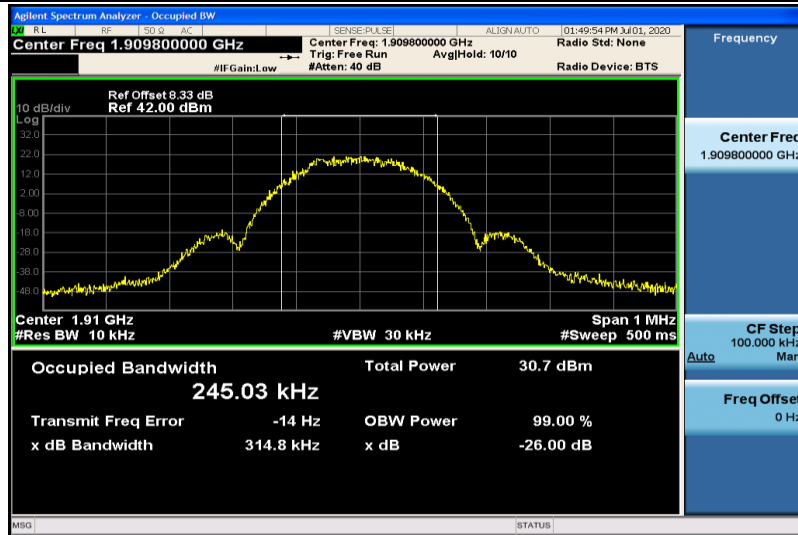
GPRS1900-810



EGPRS1900-512



EGPRS1900-661



EGPRS1900-810

8.4 Appendix D: Band Edge

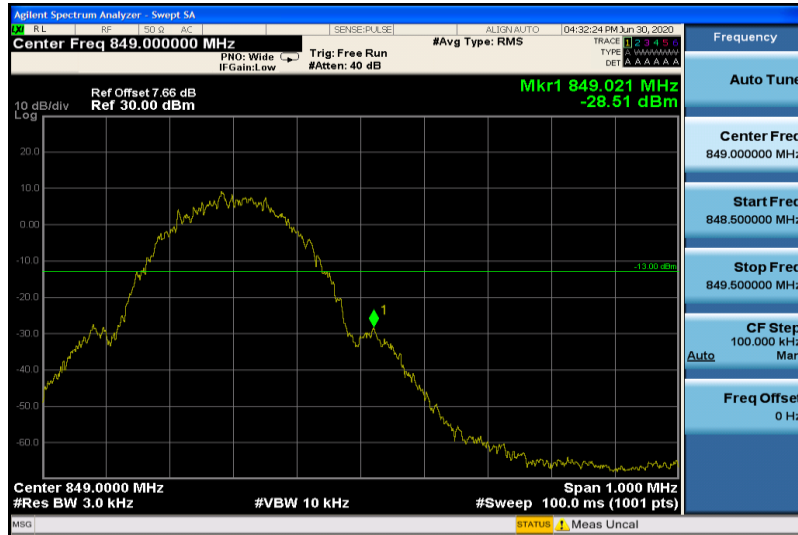
Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
GPRS850	128	-26.70	-13	PASS
GPRS850	251	-28.51	-13	PASS
EGPRS850	128	-35.10	-13	PASS
EGPRS850	251	-36.46	-13	PASS
GPRS1900	512	-32.12	-13	PASS
GPRS1900	810	-31.73	-13	PASS
EGPRS1900	512	-37.01	-13	PASS
EGPRS1900	810	-38.12	-13	PASS

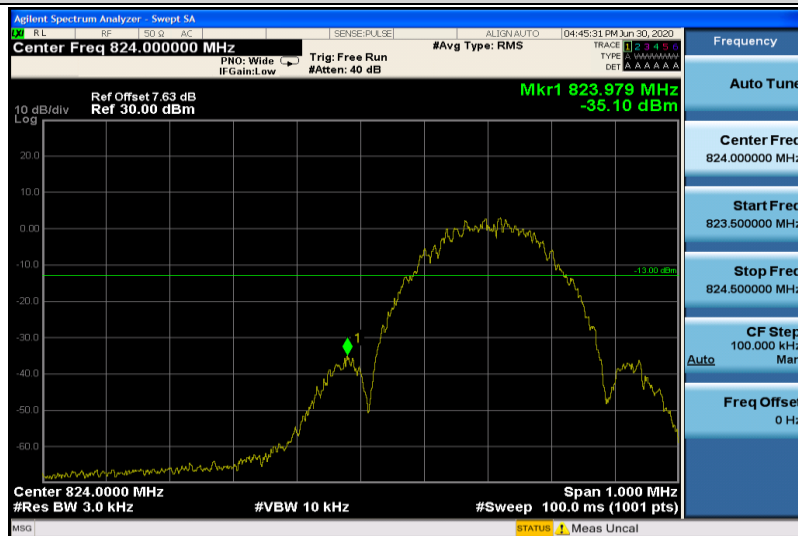
Test Graphs



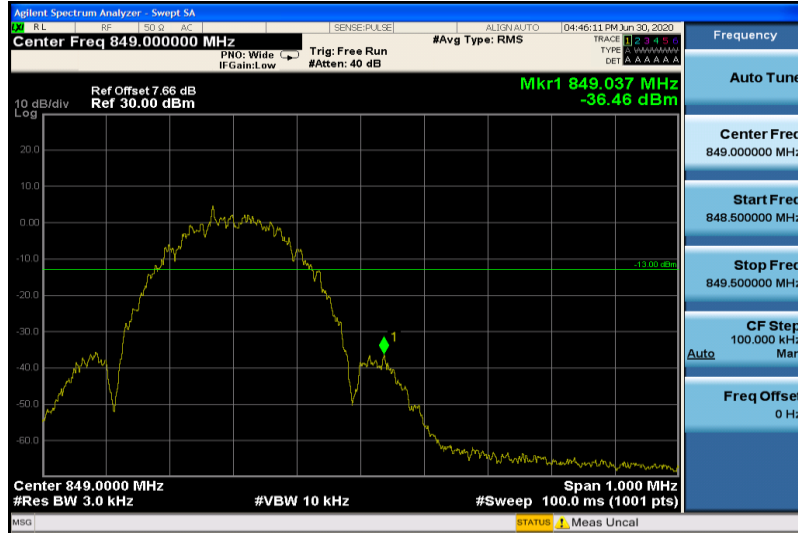
GPRS850-128



GPRS850-251



EGPRS850-128



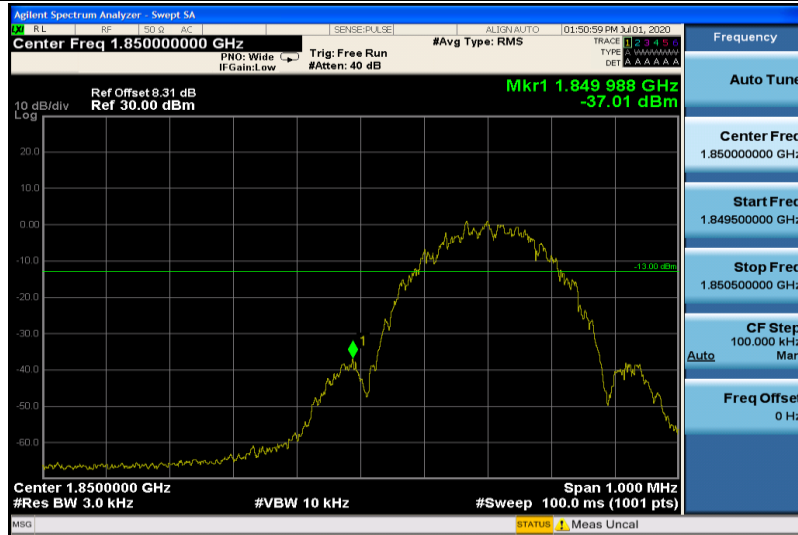
EGPRS850-251



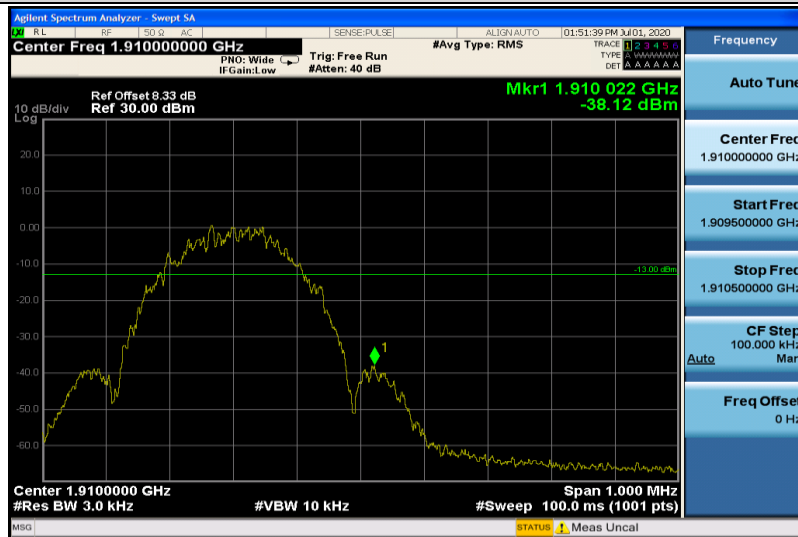
GPRS1900-512



GPRS1900-810



EGPRS1900-512



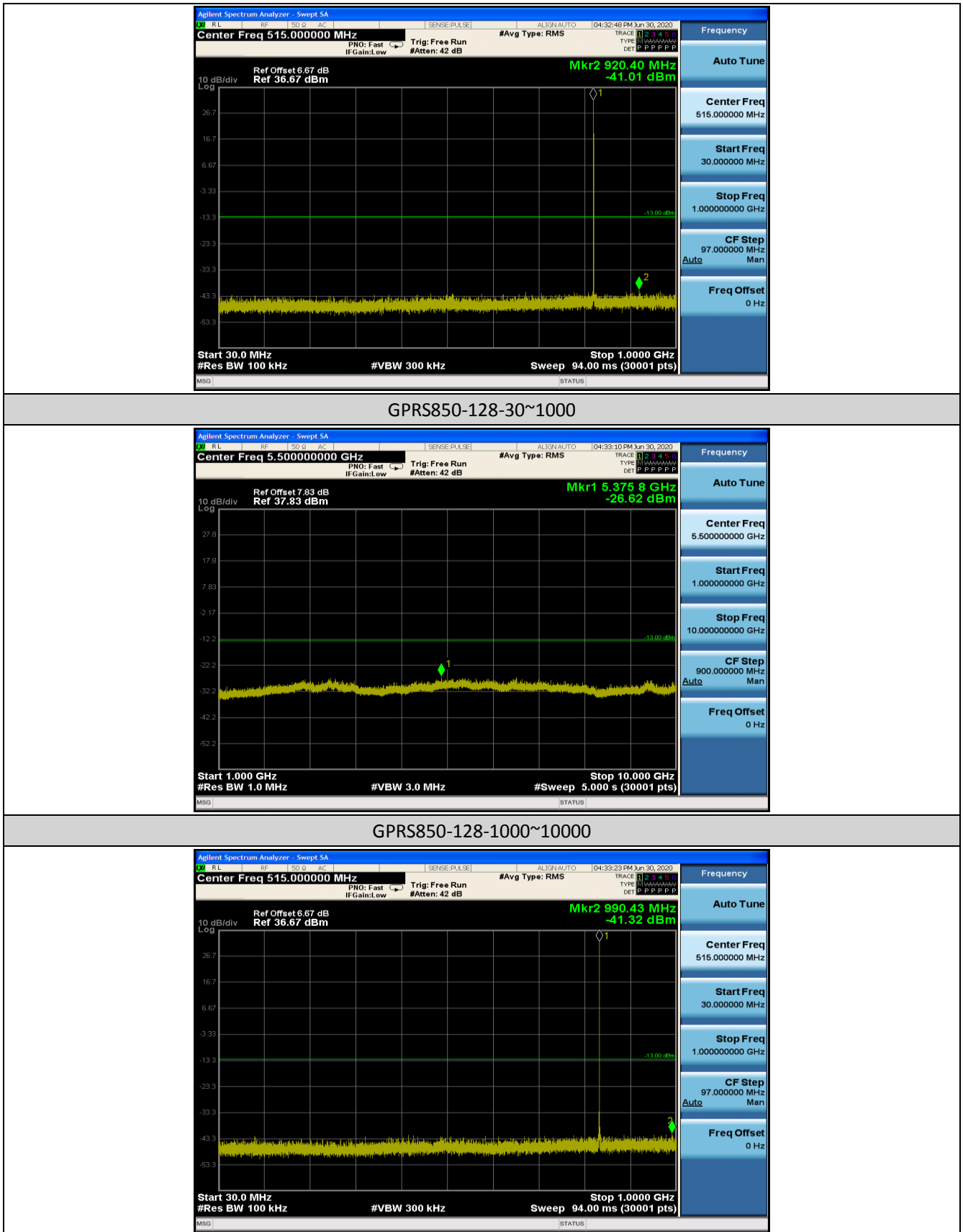
EGPRS1900-810

8.5 Appendix E: Conducted Spurious Emission

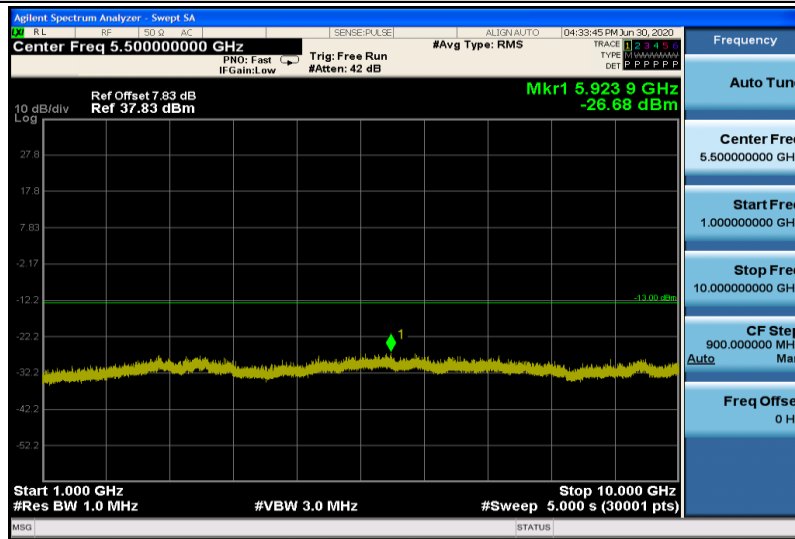
Test Result

Band	Channel	Frequency Range(Mhz)	Value(dBm)	Limit(dBm)	Verdict
GPRS850	128	30~1000	-41.01	-13	PASS
GPRS850	128	1000~10000	-26.62	-13	PASS
GPRS850	190	30~1000	-41.32	-13	PASS
GPRS850	190	1000~10000	-26.68	-13	PASS
GPRS850	251	30~1000	-40.87	-13	PASS
GPRS850	251	1000~10000	-26.51	-13	PASS
EGPRS850	128	30~1000	-41.57	-13	PASS
EGPRS850	128	1000~10000	-26.35	-13	PASS
EGPRS850	190	30~1000	-41.54	-13	PASS
EGPRS850	190	1000~10000	-26.44	-13	PASS
EGPRS850	251	30~1000	-41.35	-13	PASS
EGPRS850	251	1000~10000	-26.25	-13	PASS
GPRS1900	512	30~1000	-41.37	-13	PASS
GPRS1900	512	1000~20000	-20.28	-13	PASS
GPRS1900	661	30~1000	-40.96	-13	PASS
GPRS1900	661	1000~20000	-20.09	-13	PASS
GPRS1900	810	30~1000	-41.01	-13	PASS
GPRS1900	810	1000~20000	-20.50	-13	PASS
EGPRS1900	512	30~1000	-41.36	-13	PASS
EGPRS1900	512	1000~20000	-21.16	-13	PASS
EGPRS1900	661	30~1000	-40.96	-13	PASS
EGPRS1900	661	1000~20000	-20.52	-13	PASS
EGPRS1900	810	30~1000	-40.84	-13	PASS
EGPRS1900	810	1000~20000	-20.14	-13	PASS

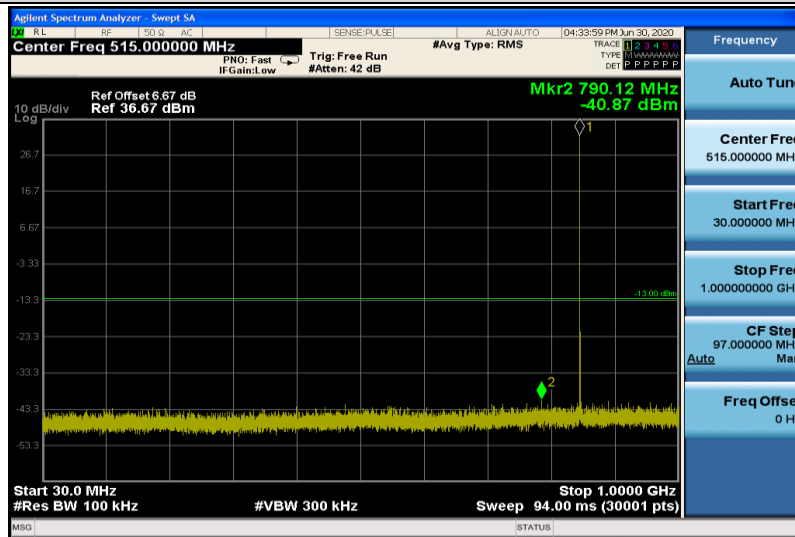
Test Graphs



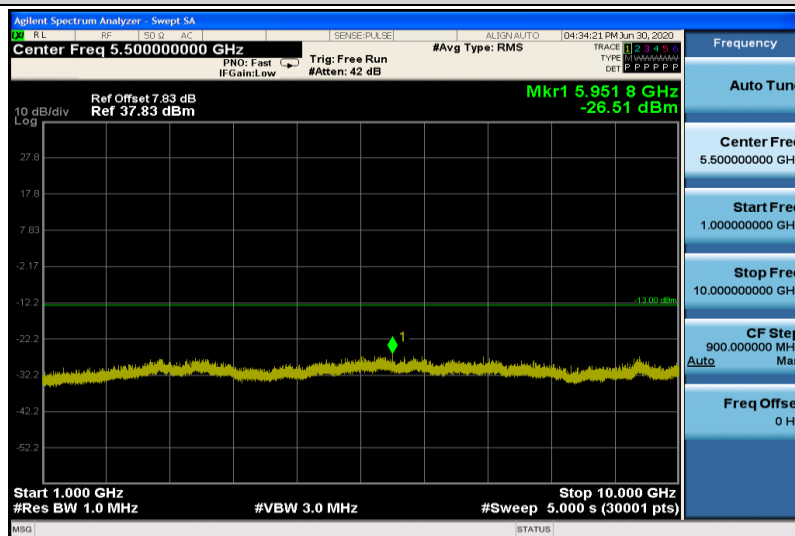
GPRS850-190-30~1000



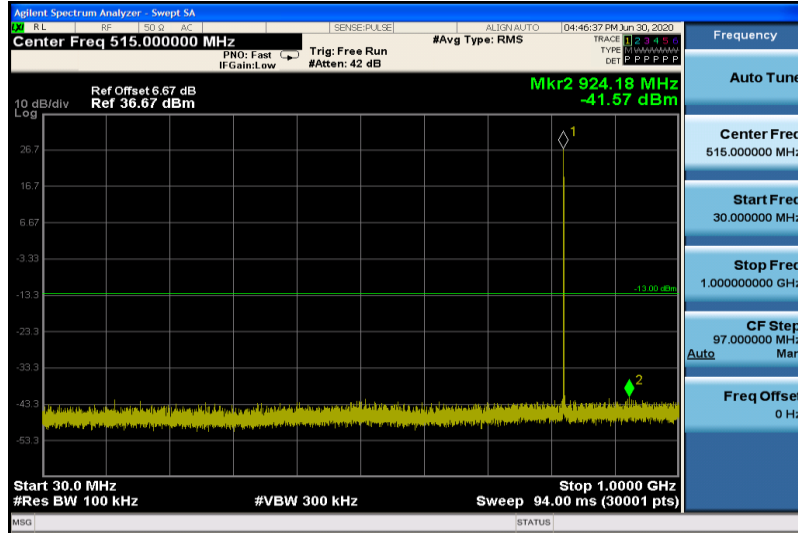
GPRS850-190-1000~10000



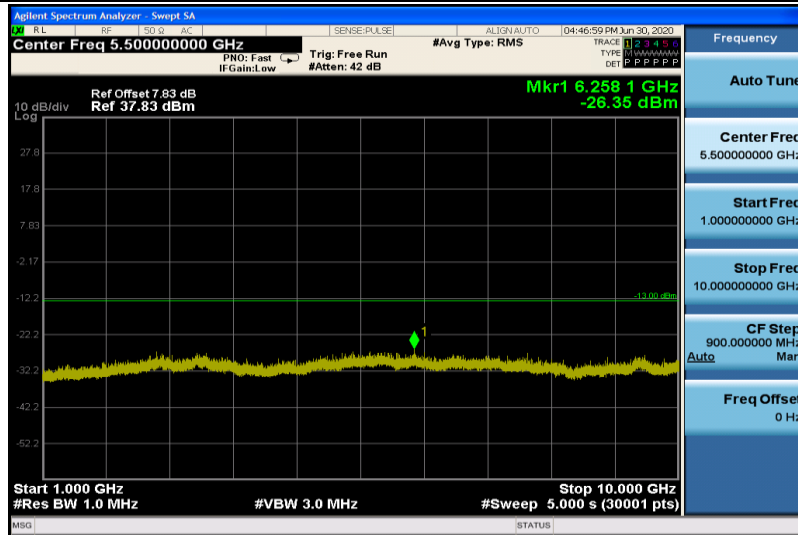
GPRS850-251-30~1000



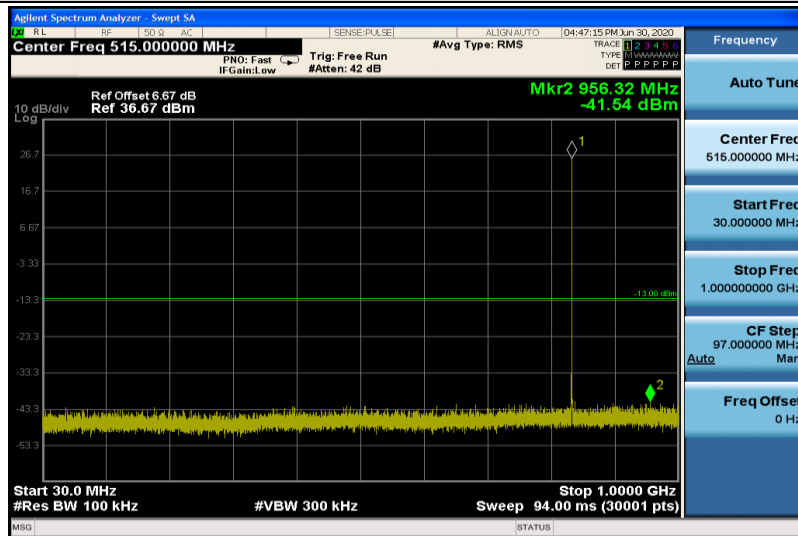
GPRS850-251-1000~10000



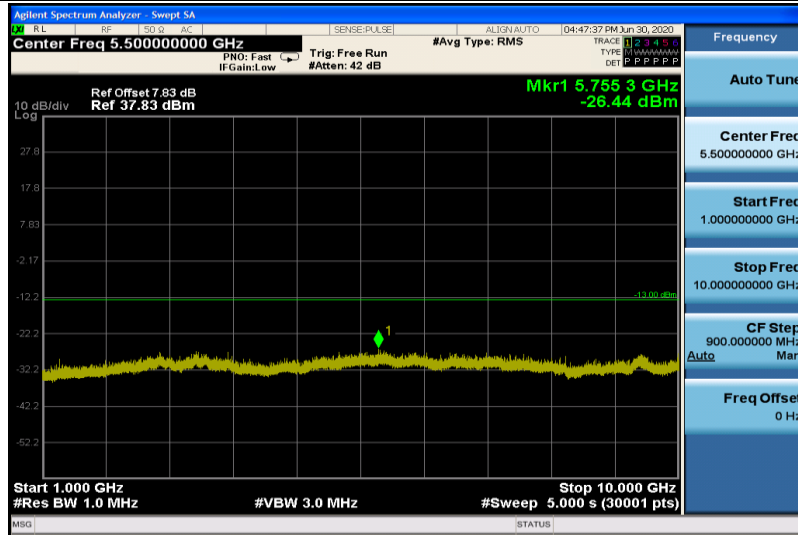
EGPRS850-128-30~1000



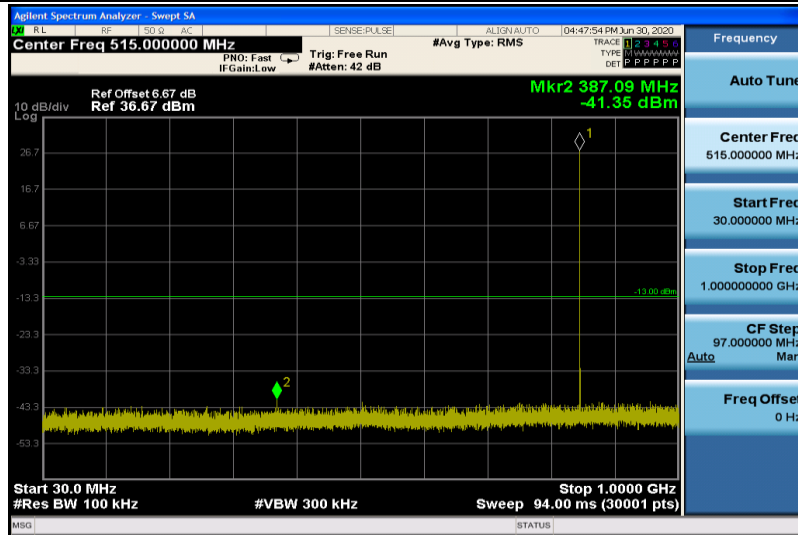
EGPRS850-128-1000~10000



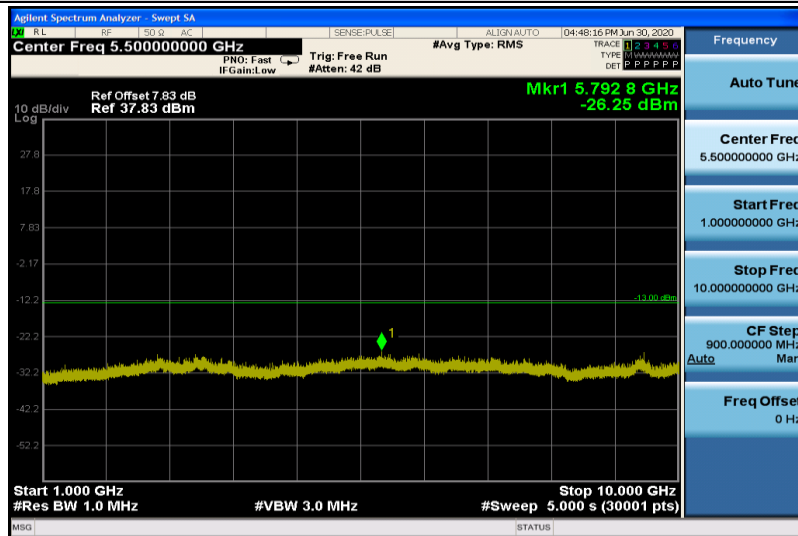
EGPRS850-190-30~1000



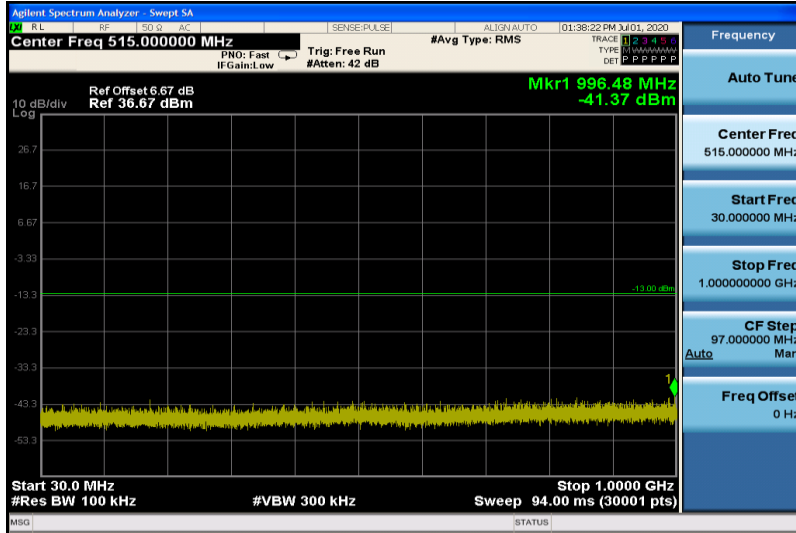
EGPRS850-190-1000~10000



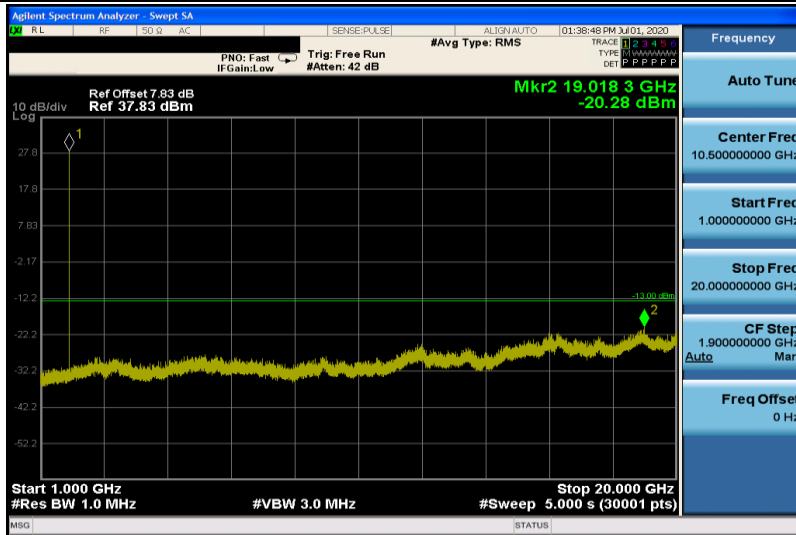
EGPRS850-251-30~1000



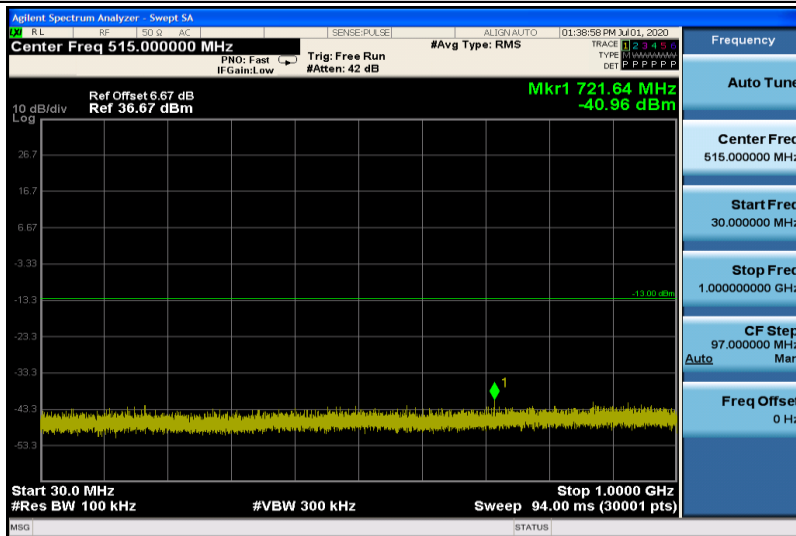
EGPRS850-251-1000~10000



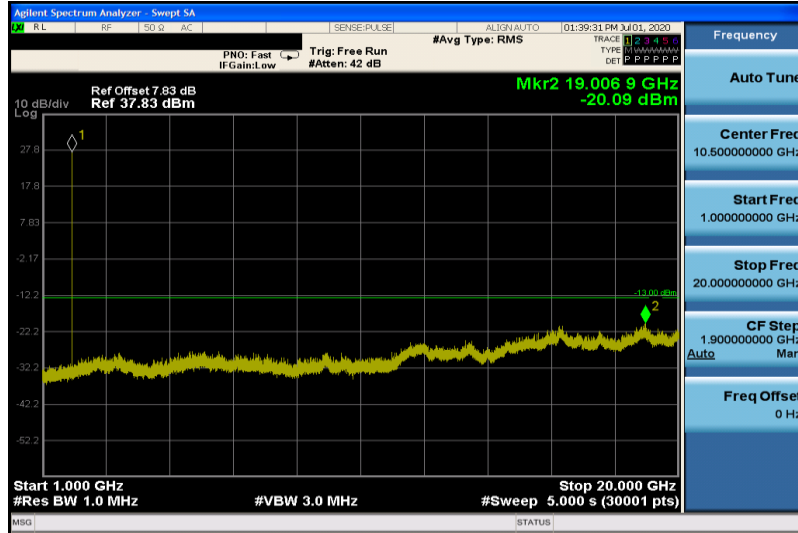
GPRS1900-512-30~1000



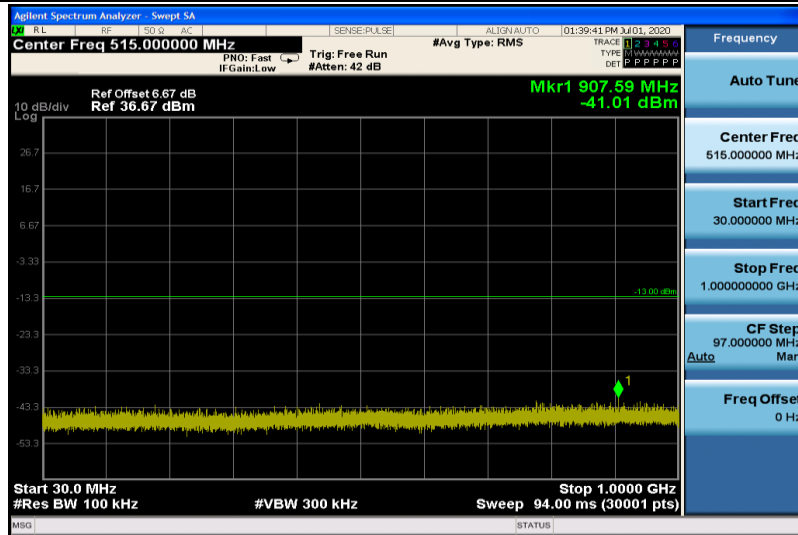
GPRS1900-512-1000~20000



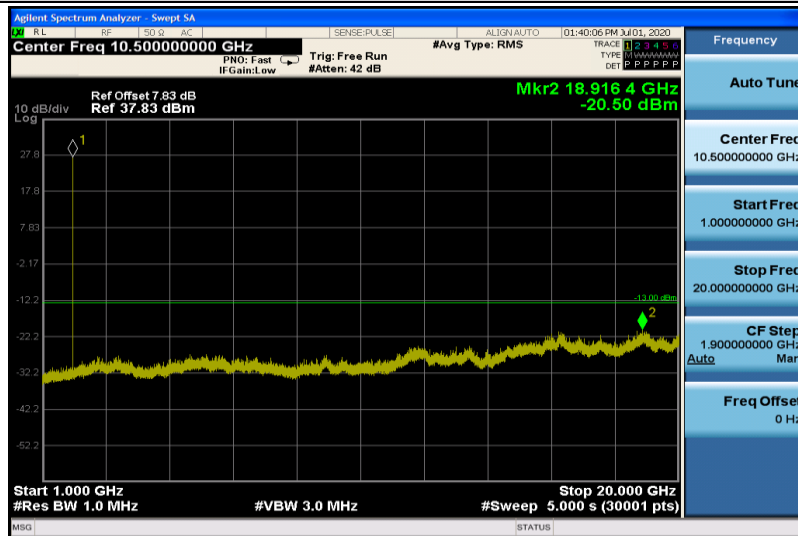
GPRS1900-661-30~1000



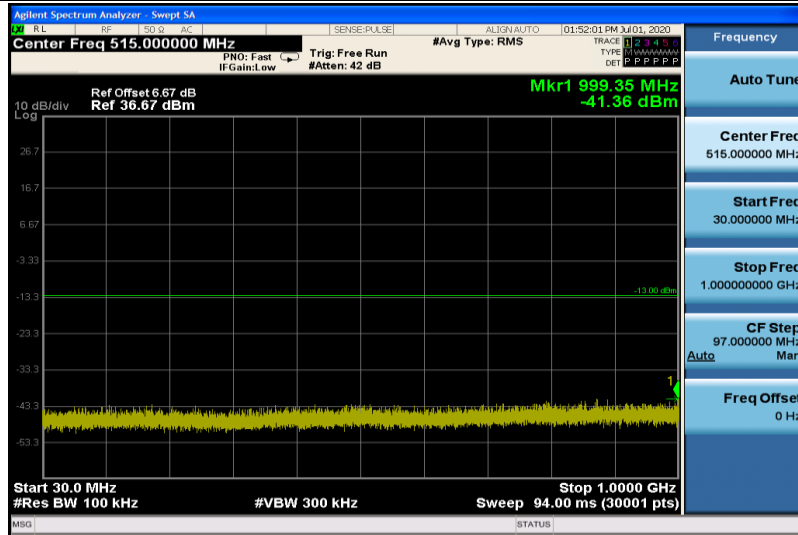
GPRS1900-661-1000~20000



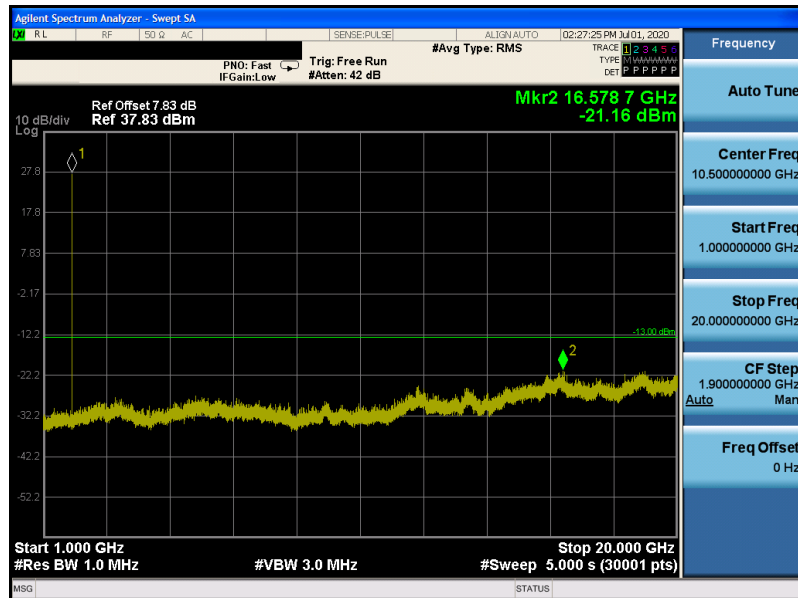
GPRS1900-810-30~1000



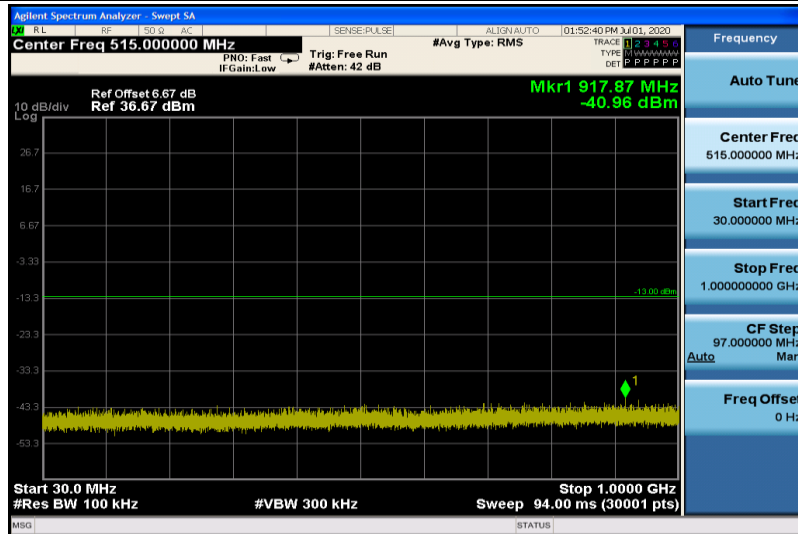
GPRS1900-810-1000~20000



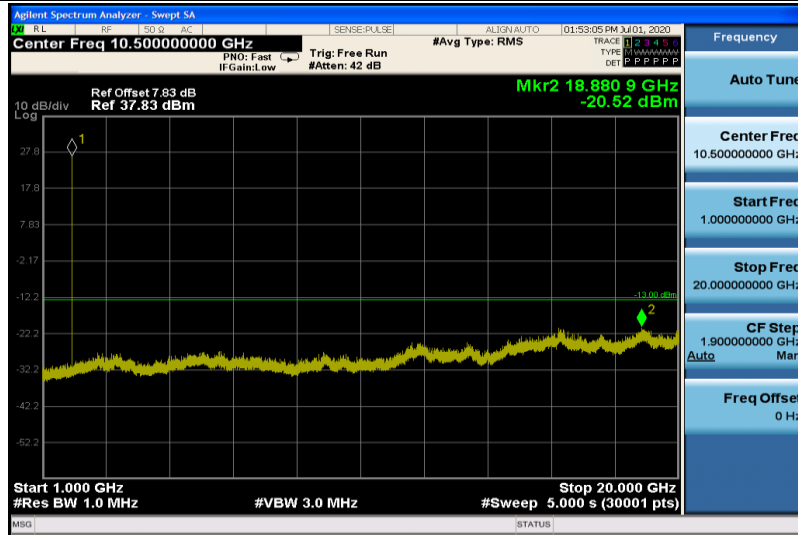
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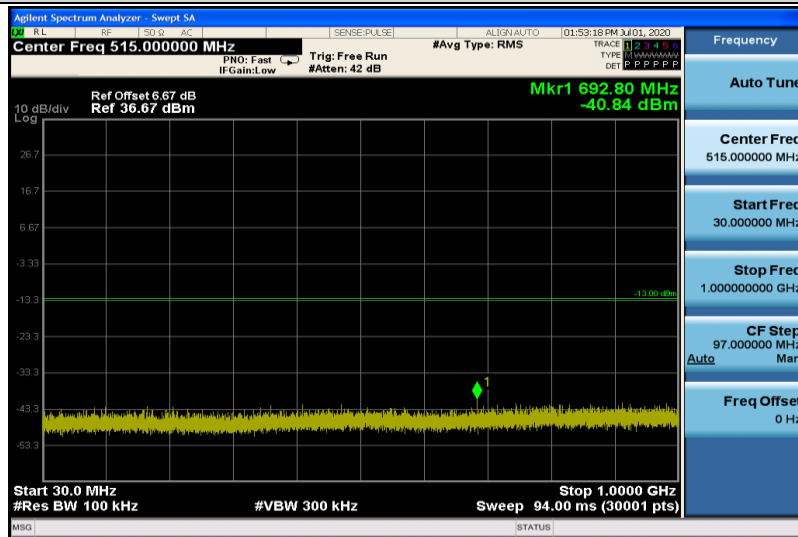
EGPRS1900-512-1000~20000



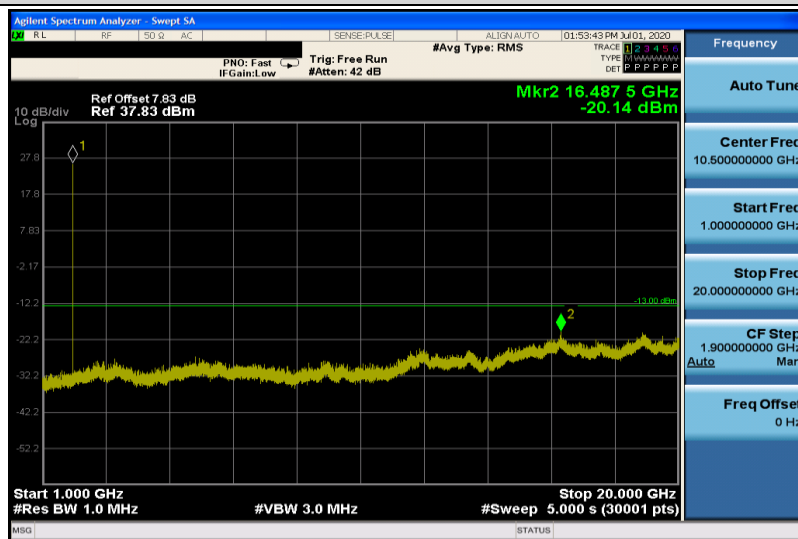
EGPRS1900-661-30~1000



EGPRS1900-661-1000~20000



EGPRS1900-810-30~1000



EGPRS1900-810-1000~20000

8.6 Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	VL	TN	15.88	0.019273	2.5	PASS
GPRS850	128	VN	TN	19.66	0.023856	2.5	PASS
GPRS850	128	VH	TN	17.92	0.021741	2.5	PASS
GPRS850	190	VL	TN	14.27	0.017058	2.5	PASS
GPRS850	190	VN	TN	21.76	0.026011	2.5	PASS
GPRS850	190	VH	TN	22.08	0.026397	2.5	PASS
GPRS850	251	VL	TN	19.31	0.022746	2.5	PASS
GPRS850	251	VN	TN	17.60	0.020730	2.5	PASS
GPRS850	251	VH	TN	19.86	0.023393	2.5	PASS
EGPRS850	128	VL	TN	17.43	0.021153	2.5	PASS
EGPRS850	128	VN	TN	21.02	0.025501	2.5	PASS
EGPRS850	128	VH	TN	21.44	0.026010	2.5	PASS
EGPRS850	190	VL	TN	20.44	0.024429	2.5	PASS
EGPRS850	190	VN	TN	23.57	0.028172	2.5	PASS
EGPRS850	190	VH	TN	24.86	0.029716	2.5	PASS
EGPRS850	251	VL	TN	22.54	0.026550	2.5	PASS
EGPRS850	251	VN	TN	21.37	0.025181	2.5	PASS
EGPRS850	251	VH	TN	22.24	0.026208	2.5	PASS
GPRS1900	512	VL	TN	11.59	0.006265	2.5	PASS
GPRS1900	512	VN	TN	15.27	0.008254	2.5	PASS
GPRS1900	512	VH	TN	19.44	0.010505	2.5	PASS
GPRS1900	661	VL	TN	5.23	0.002782	2.5	PASS
GPRS1900	661	VN	TN	10.56	0.005616	2.5	PASS
GPRS1900	661	VH	TN	9.78	0.005204	2.5	PASS
GPRS1900	810	VL	TN	15.66	0.008199	2.5	PASS
GPRS1900	810	VN	TN	12.88	0.006745	2.5	PASS
GPRS1900	810	VH	TN	11.69	0.006120	2.5	PASS
EGPRS1900	512	VL	TN	3.52	0.001902	2.5	PASS
EGPRS1900	512	VN	TN	7.01	0.003787	2.5	PASS
EGPRS1900	512	VH	TN	1.19	0.000646	2.5	PASS
EGPRS1900	661	VL	TN	3.55	0.001889	2.5	PASS
EGPRS1900	661	VN	TN	2.58	0.001374	2.5	PASS
EGPRS1900	661	VH	TN	3.45	0.001838	2.5	PASS
EGPRS1900	810	VL	TN	4.75	0.002485	2.5	PASS
EGPRS1900	810	VN	TN	18.18	0.009518	2.5	PASS

EGPRS1900	810	VH	TN	14.88	0.007793	2.5	PASS
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Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	VN	-30	22.96	0.027852	2.5	PASS
GPRS850	128	VN	-20	24.25	0.029418	2.5	PASS
GPRS850	128	VN	-10	24.12	0.029262	2.5	PASS
GPRS850	128	VN	0	22.31	0.027068	2.5	PASS
GPRS850	128	VN	10	14.40	0.017471	2.5	PASS
GPRS850	128	VN	20	16.05	0.019469	2.5	PASS
GPRS850	128	VN	30	24.99	0.030319	2.5	PASS
GPRS850	128	VN	40	19.40	0.023543	2.5	PASS
GPRS850	128	VN	50	14.79	0.017941	2.5	PASS
GPRS850	190	VN	-30	21.08	0.025200	2.5	PASS
GPRS850	190	VN	-20	21.41	0.025586	2.5	PASS
GPRS850	190	VN	-10	20.37	0.024351	2.5	PASS
GPRS850	190	VN	0	20.73	0.024776	2.5	PASS
GPRS850	190	VN	10	21.02	0.025123	2.5	PASS
GPRS850	190	VN	20	18.95	0.022653	2.5	PASS
GPRS850	190	VN	30	21.41	0.025586	2.5	PASS
GPRS850	190	VN	40	18.66	0.022306	2.5	PASS
GPRS850	190	VN	50	19.86	0.023734	2.5	PASS
GPRS850	251	VN	-30	17.37	0.020464	2.5	PASS
GPRS850	251	VN	-20	18.05	0.021263	2.5	PASS
GPRS850	251	VN	-10	17.60	0.020730	2.5	PASS
GPRS850	251	VN	0	18.14	0.021377	2.5	PASS
GPRS850	251	VN	10	18.02	0.021225	2.5	PASS
GPRS850	251	VN	20	18.40	0.021681	2.5	PASS
GPRS850	251	VN	30	17.18	0.020236	2.5	PASS
GPRS850	251	VN	40	18.50	0.021795	2.5	PASS
GPRS850	251	VN	50	19.05	0.022442	2.5	PASS
EGPRS850	128	VN	-30	19.66	0.023856	2.5	PASS
EGPRS850	128	VN	-20	21.47	0.026050	2.5	PASS
EGPRS850	128	VN	-10	21.31	0.025854	2.5	PASS
EGPRS850	128	VN	0	20.08	0.024365	2.5	PASS
EGPRS850	128	VN	10	19.79	0.024013	2.5	PASS
EGPRS850	128	VN	20	17.53	0.021271	2.5	PASS
EGPRS850	128	VN	30	20.53	0.024914	2.5	PASS
EGPRS850	128	VN	40	20.11	0.024404	2.5	PASS
EGPRS850	128	VN	50	20.02	0.024287	2.5	PASS
EGPRS850	190	VN	-30	22.96	0.027439	2.5	PASS
EGPRS850	190	VN	-20	24.44	0.029214	2.5	PASS

EGPRS850	190	VN	-10	25.54	0.030526	2.5	PASS
EGPRS850	190	VN	0	23.44	0.028018	2.5	PASS
EGPRS850	190	VN	10	22.47	0.026860	2.5	PASS
EGPRS850	190	VN	20	23.70	0.028326	2.5	PASS
EGPRS850	190	VN	30	25.12	0.030024	2.5	PASS
EGPRS850	190	VN	40	25.57	0.030565	2.5	PASS
EGPRS850	190	VN	50	24.44	0.029214	2.5	PASS
EGPRS850	251	VN	-30	22.86	0.026930	2.5	PASS
EGPRS850	251	VN	-20	20.24	0.023849	2.5	PASS
EGPRS850	251	VN	-10	21.05	0.024800	2.5	PASS
EGPRS850	251	VN	0	20.50	0.024154	2.5	PASS
EGPRS850	251	VN	10	20.47	0.024115	2.5	PASS
EGPRS850	251	VN	20	20.73	0.024420	2.5	PASS
EGPRS850	251	VN	30	20.50	0.024154	2.5	PASS
EGPRS850	251	VN	40	22.21	0.026169	2.5	PASS
EGPRS850	251	VN	50	22.89	0.026968	2.5	PASS
GPRS1900	512	VN	-30	18.11	0.009789	2.5	PASS
GPRS1900	512	VN	-20	19.53	0.010557	2.5	PASS
GPRS1900	512	VN	-10	16.98	0.009179	2.5	PASS
GPRS1900	512	VN	0	18.18	0.009824	2.5	PASS
GPRS1900	512	VN	10	17.98	0.009720	2.5	PASS
GPRS1900	512	VN	20	18.11	0.009789	2.5	PASS
GPRS1900	512	VN	30	20.15	0.010889	2.5	PASS
GPRS1900	512	VN	40	17.27	0.009336	2.5	PASS
GPRS1900	512	VN	50	15.88	0.008585	2.5	PASS
GPRS1900	661	VN	-30	12.82	0.006818	2.5	PASS
GPRS1900	661	VN	-20	7.85	0.004173	2.5	PASS
GPRS1900	661	VN	-10	5.17	0.002748	2.5	PASS
GPRS1900	661	VN	0	5.88	0.003126	2.5	PASS
GPRS1900	661	VN	10	14.50	0.007711	2.5	PASS
GPRS1900	661	VN	20	10.14	0.005392	2.5	PASS
GPRS1900	661	VN	30	8.88	0.004723	2.5	PASS
GPRS1900	661	VN	40	13.08	0.006955	2.5	PASS
GPRS1900	661	VN	50	12.85	0.006835	2.5	PASS
GPRS1900	810	VN	-30	12.20	0.006390	2.5	PASS
GPRS1900	810	VN	-20	14.85	0.007776	2.5	PASS
GPRS1900	810	VN	-10	14.95	0.007827	2.5	PASS
GPRS1900	810	VN	0	15.82	0.008284	2.5	PASS
GPRS1900	810	VN	10	16.72	0.008757	2.5	PASS
GPRS1900	810	VN	20	18.24	0.009552	2.5	PASS
GPRS1900	810	VN	30	15.01	0.007861	2.5	PASS
GPRS1900	810	VN	40	18.47	0.009670	2.5	PASS

GPRS1900	810	VN	50	17.76	0.009298	2.5	PASS
EGPRS1900	512	VN	-30	5.84	0.003158	2.5	PASS
EGPRS1900	512	VN	-20	0.48	0.000262	2.5	PASS
EGPRS1900	512	VN	-10	1.36	0.000733	2.5	PASS
EGPRS1900	512	VN	0	7.17	0.003874	2.5	PASS
EGPRS1900	512	VN	10	6.26	0.003385	2.5	PASS
EGPRS1900	512	VN	20	8.56	0.004624	2.5	PASS
EGPRS1900	512	VN	30	9.17	0.004956	2.5	PASS
EGPRS1900	512	VN	40	11.20	0.006055	2.5	PASS
EGPRS1900	512	VN	50	16.89	0.009126	2.5	PASS
EGPRS1900	661	VN	-30	5.07	0.002696	2.5	PASS
EGPRS1900	661	VN	-20	3.42	0.001820	2.5	PASS
EGPRS1900	661	VN	-10	2.58	0.001374	2.5	PASS
EGPRS1900	661	VN	0	5.55	0.002954	2.5	PASS
EGPRS1900	661	VN	10	5.29	0.002816	2.5	PASS
EGPRS1900	661	VN	20	7.26	0.003864	2.5	PASS
EGPRS1900	661	VN	30	5.65	0.003005	2.5	PASS
EGPRS1900	661	VN	40	2.71	0.001443	2.5	PASS
EGPRS1900	661	VN	50	2.81	0.001494	2.5	PASS
EGPRS1900	810	VN	-30	17.14	0.008977	2.5	PASS
EGPRS1900	810	VN	-20	14.85	0.007776	2.5	PASS
EGPRS1900	810	VN	-10	12.62	0.006610	2.5	PASS
EGPRS1900	810	VN	0	15.76	0.008250	2.5	PASS
EGPRS1900	810	VN	10	11.69	0.006120	2.5	PASS
EGPRS1900	810	VN	20	10.17	0.005325	2.5	PASS
EGPRS1900	810	VN	30	13.24	0.006931	2.5	PASS
EGPRS1900	810	VN	40	8.98	0.004700	2.5	PASS
EGPRS1900	810	VN	50	12.72	0.006661	2.5	PASS

-----End of the Report -----