

Appendix C.1: Radiated Power Output Data

Test Result

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	32.44	38.5	PASS
GPRS850	128	2	30.84	38.5	PASS
GPRS850	128	3	29.26	38.5	PASS
GPRS850	128	4	27.65	38.5	PASS
GPRS850	190	1	32.29	38.5	PASS
GPRS850	190	2	30.99	38.5	PASS
GPRS850	190	3	29.58	38.5	PASS
GPRS850	190	4	27.39	38.5	PASS
GPRS850	251	1	32.20	38.5	PASS
GPRS850	251	2	30.88	38.5	PASS
GPRS850	251	3	29.57	38.5	PASS
GPRS850	251	4	27.28	38.5	PASS
GPRS1900	512	1	30.86	33	PASS
GPRS1900	512	2	29.59	33	PASS
GPRS1900	512	3	28.64	33	PASS
GPRS1900	512	4	27.75	33	PASS
GPRS1900	661	1	30.42	33	PASS
GPRS1900	661	2	29.27	33	PASS
GPRS1900	661	3	28.14	33	PASS
GPRS1900	661	4	27.55	33	PASS
GPRS1900	810	1	30.49	33	PASS
GPRS1900	810	2	29.34	33	PASS
GPRS1900	810	3	28.13	33	PASS
GPRS1900	810	4	27.29	33	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	25.17	38.5	PASS
EGPRS850	128	2	24.55	38.5	PASS
EGPRS850	128	3	23.36	38.5	PASS
EGPRS850	128	4	22.56	38.5	PASS
EGPRS850	190	1	25.62	38.5	PASS
EGPRS850	190	2	24.58	38.5	PASS
EGPRS850	190	3	23.69	38.5	PASS
EGPRS850	190	4	22.59	38.5	PASS
EGPRS850	251	1	25.20	38.5	PASS
EGPRS850	251	2	24.78	38.5	PASS
EGPRS850	251	3	23.81	38.5	PASS
EGPRS850	251	4	22.55	38.5	PASS

EGPRS1900	512	1	25.75	33	PASS
EGPRS1900	512	2	24.72	33	PASS
EGPRS1900	512	3	23.64	33	PASS
EGPRS1900	512	4	22.55	33	PASS
EGPRS1900	661	1	25.64	33	PASS
EGPRS1900	661	2	24.56	33	PASS
EGPRS1900	661	3	23.31	33	PASS
EGPRS1900	661	4	22.34	33	PASS
EGPRS1900	810	1	25.16	33	PASS
EGPRS1900	810	2	24.87	33	PASS
EGPRS1900	810	3	23.79	33	PASS
EGPRS1900	810	4	22.52	33	PASS

Appendix C.2: Peak-to-Average Ratio

Test Result

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
GPRS850	128	0.54	13	PASS
GPRS850	190	0.26	13	PASS
GPRS850	251	0.22	13	PASS
EGPRS850	128	3.55	13	PASS
EGPRS850	190	3.15	13	PASS
EGPRS850	251	3.13	13	PASS
GPRS1900	512	0.66	13	PASS
GPRS1900	661	0.57	13	PASS
GPRS1900	810	0.23	13	PASS
EGPRS1900	512	3.18	13	PASS
EGPRS1900	661	3.36	13	PASS
EGPRS1900	810	3.55	13	PASS

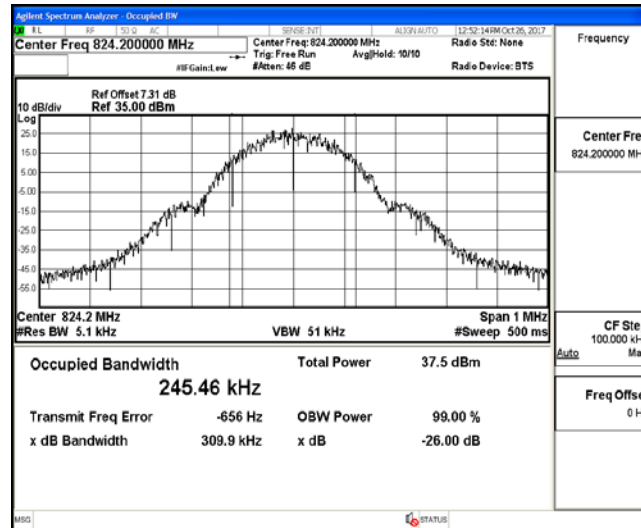
Appendix C.3: 26dB Bandwidth and Occupied Bandwidth

Test Result

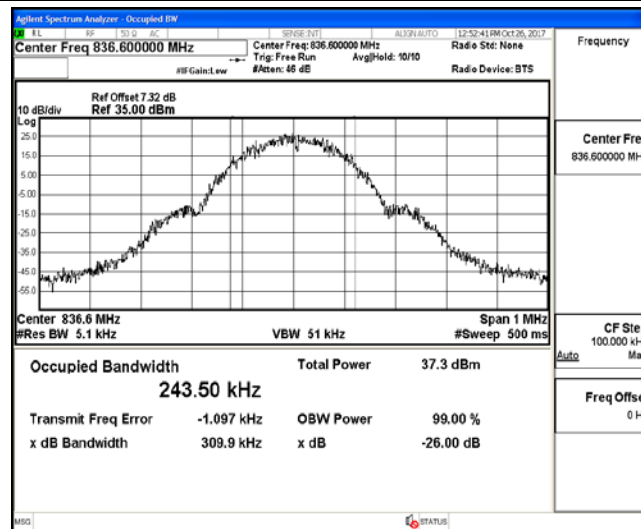
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GPRS850	128	245.46	309.85	---	PASS
GPRS850	190	243.50	309.93	---	PASS
GPRS850	251	245.06	320.57	---	PASS
EGPRS850	128	245.42	309.30	---	PASS
EGPRS850	190	248.29	311.64	---	PASS
EGPRS850	251	250.62	312.50	---	PASS
GPRS1900	512	247.56	305.13	---	PASS
GPRS1900	661	245.20	316.82	---	PASS
GPRS1900	810	246.20	311.72	---	PASS
EGPRS1900	512	250.55	306.13	---	PASS
EGPRS1900	661	247.78	306.54	---	PASS
EGPRS1900	810	247.20	309.59	---	PASS

Test Graphs

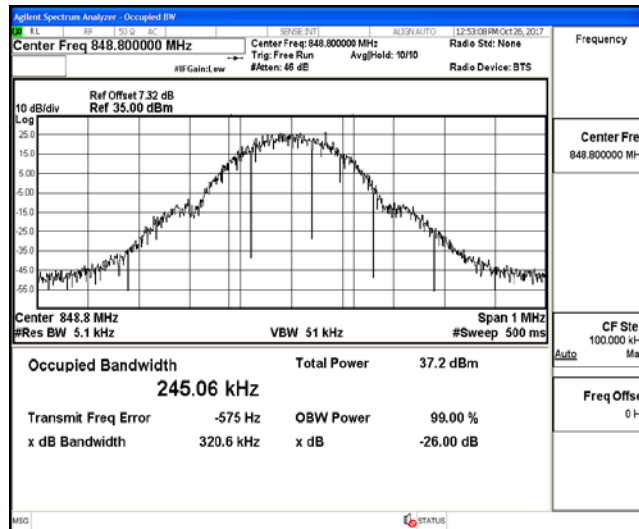
GPRS850_128_---_PASS



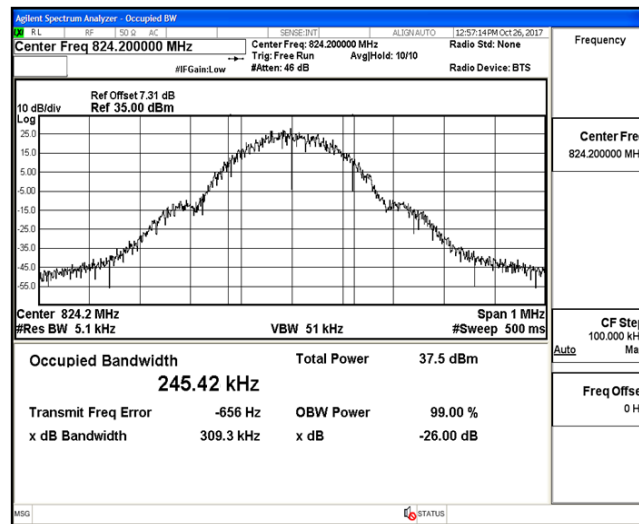
GPRS850_190_---_PASS



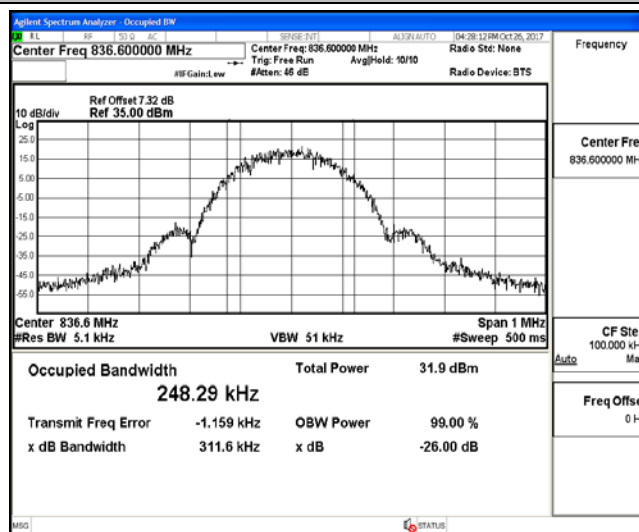
GPRS850_251_---_PASS



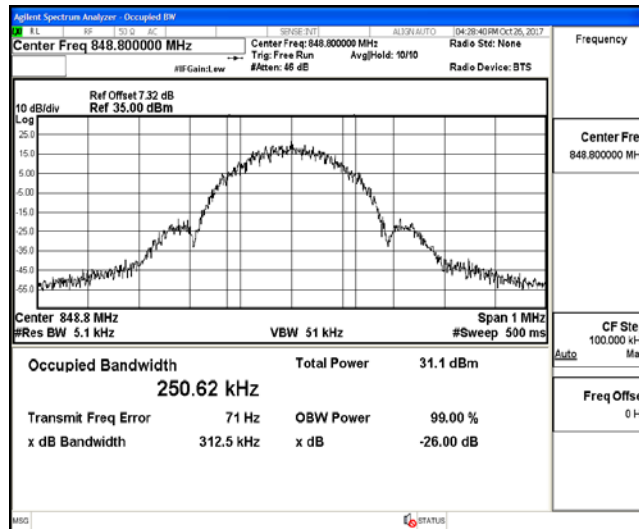
EGPRS850_128_---_PASS



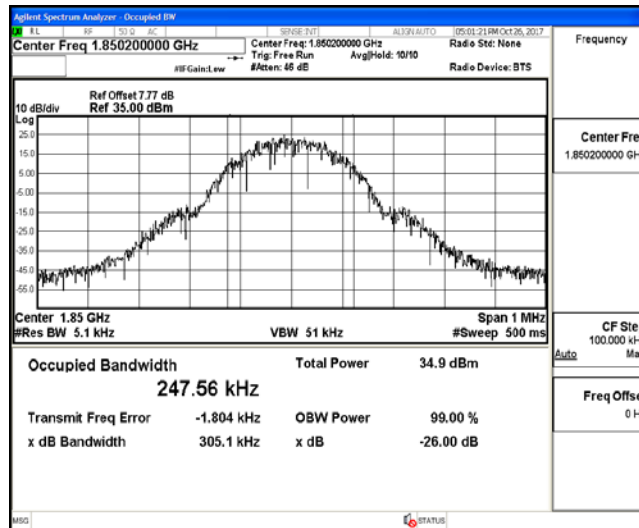
EGPRS850_190_---_PASS



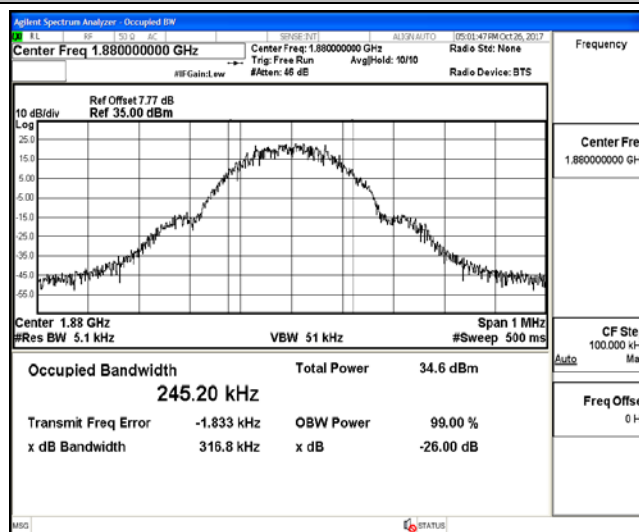
EGPRS850_251_---_PASS



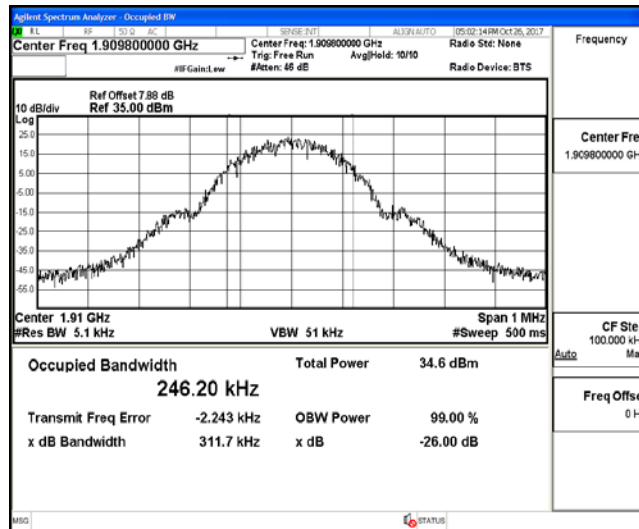
GPRS1900_512_---_PASS



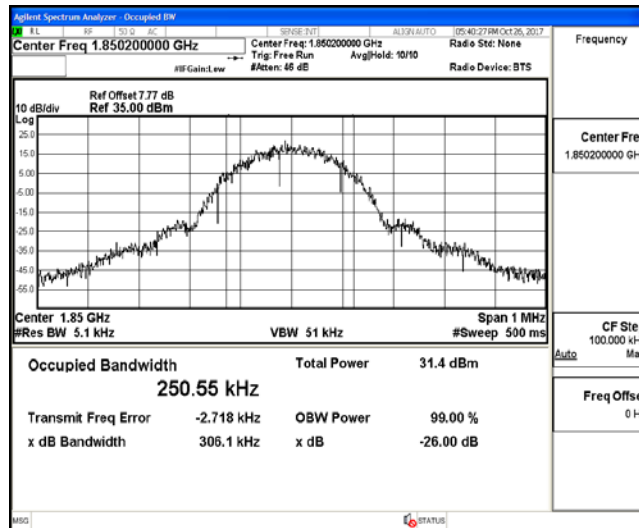
GPRS1900_661_---_PASS



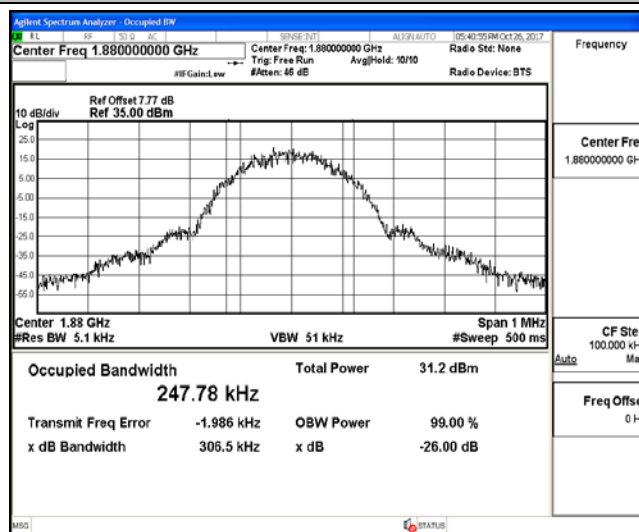
GPRS1900_810_---_PASS



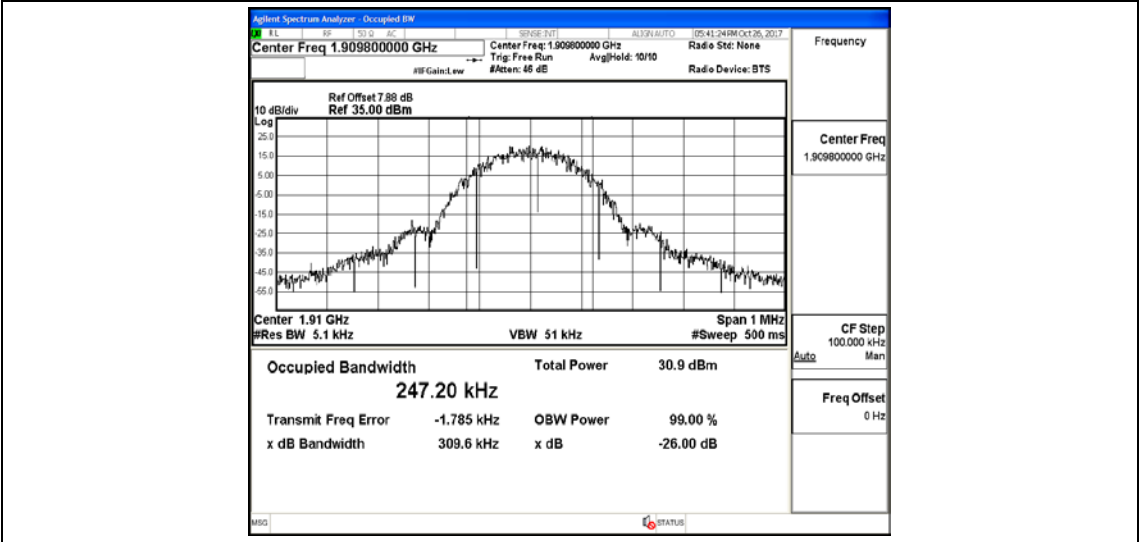
EGPRS1900_512_---_PASS



EGPRS1900_661_---_PASS



EGPRS1900_810_---_PASS



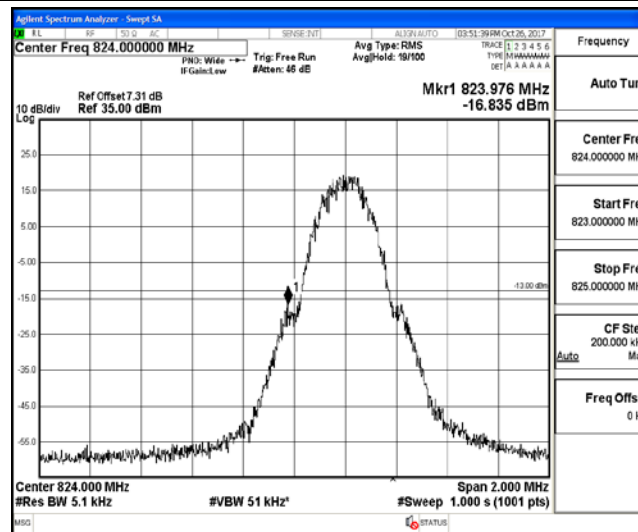
Appendix C.4: Band Edge

Test Result

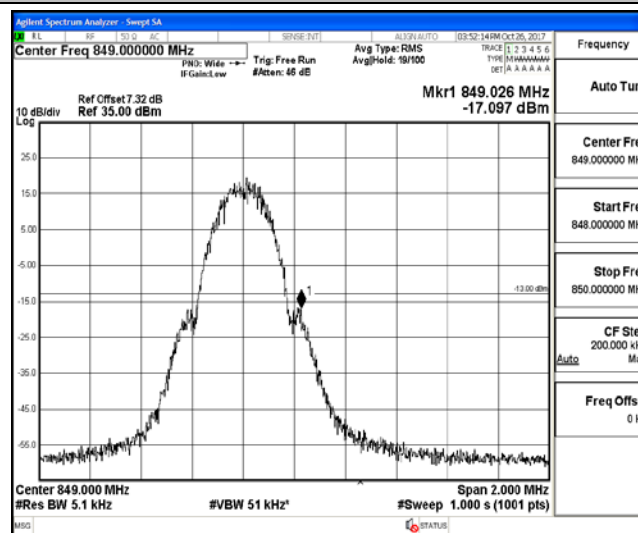
Band	Channel	Value(dBm)	Limit(dBm)	Verdict
GPRS850	128	-16.84	-13	PASS
GPRS850	251	-17.10	-13	PASS
EGPRS850	128	-25.29	-13	PASS
EGPRS850	251	-26.72	-13	PASS
GPRS1900	512	-18.62	-13	PASS
GPRS1900	810	-20.02	-13	PASS
EGPRS1900	512	-26.67	-13	PASS
EGPRS1900	810	-26.40	-13	PASS

Test Graphs

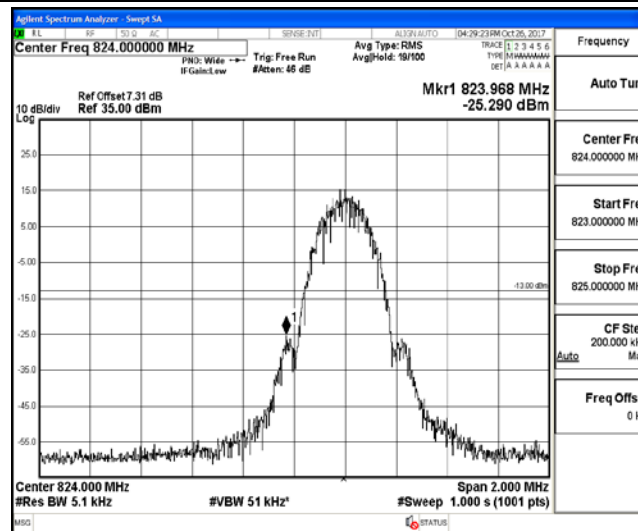
GPRS850_128_-16.83_-13_PASS



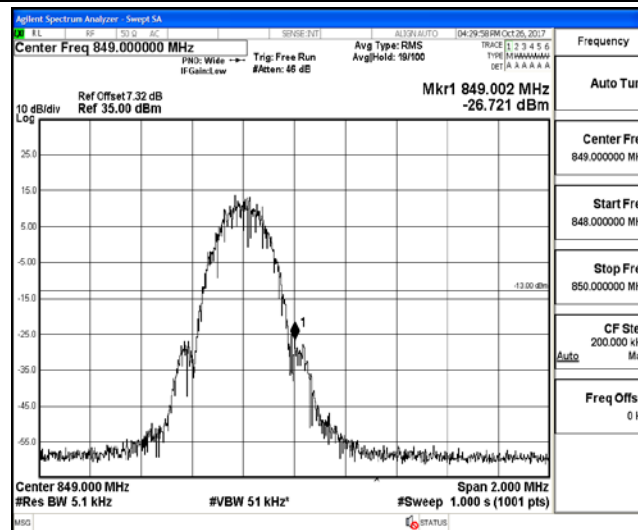
GPRS850_251_-17.10_-13_PASS



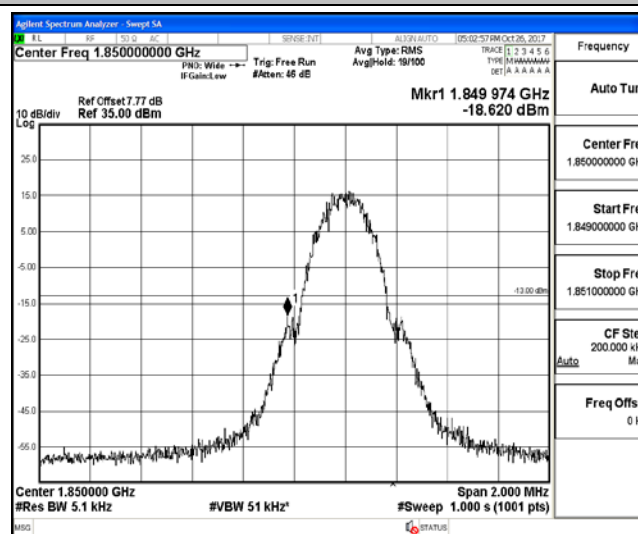
EGPRS850_128_-25.29_-13_PASS



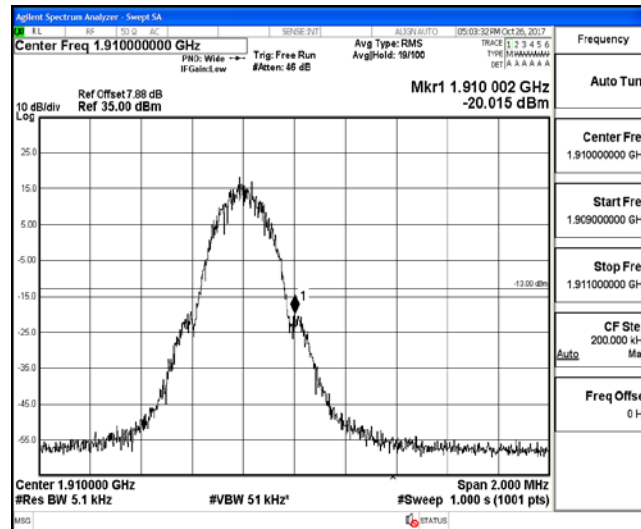
EGPRS850_251_-26.72_-13_PASS



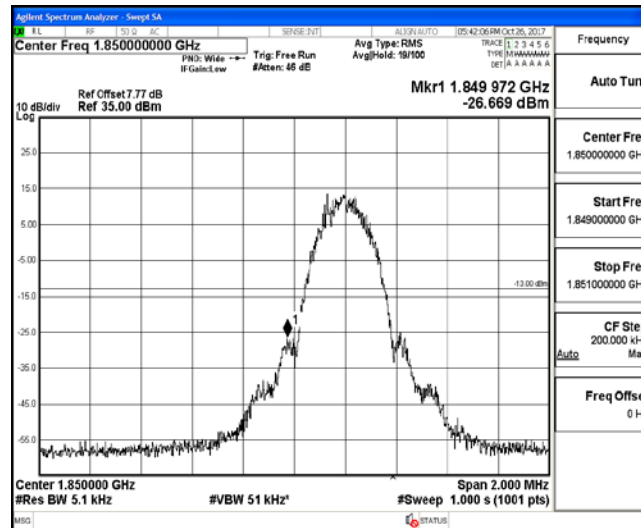
GPRS1900_512_-18.62_-13_PASS



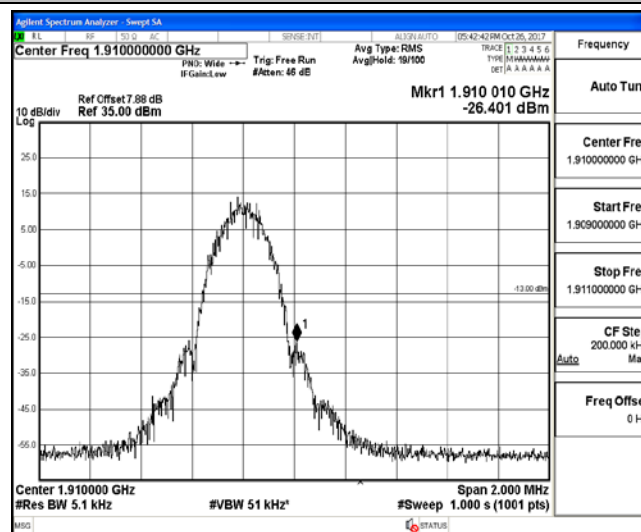
GPRS1900_810_-20.02_-13_PASS



EGPRS1900_512_-26.67_-13_PASS



EGPRS1900_810_-26.40_-13_PASS

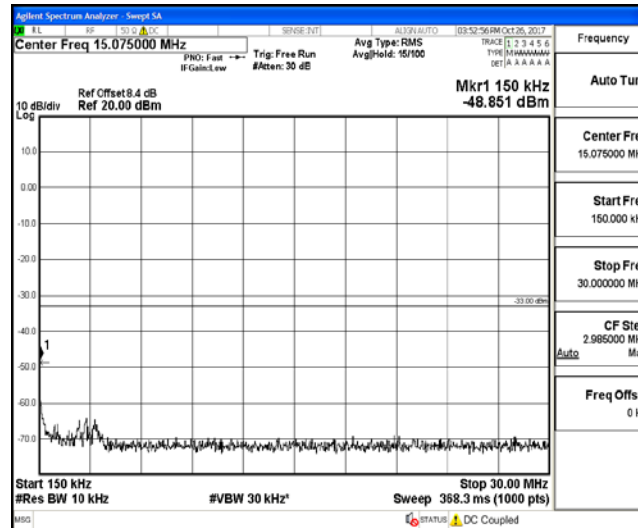


Appendix C.5: Conducted Spurious Emission

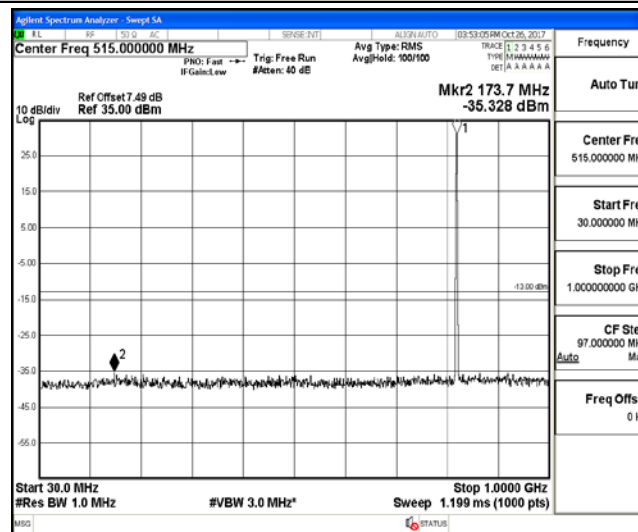
Test Result

Test Graphs GPRS850

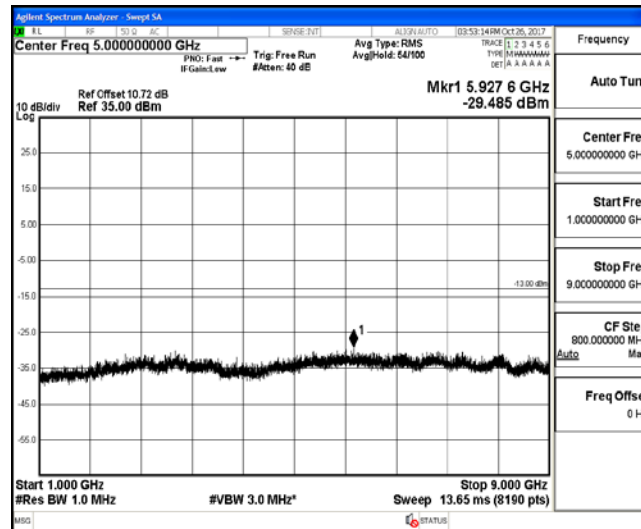
GPRS850_128_0.15~30_-48.85_-33_PASS



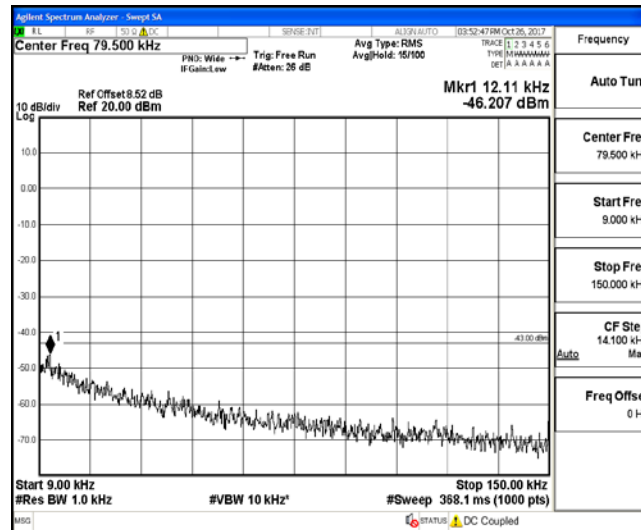
GPRS850_128_30~1000_31.18_-13_PASS



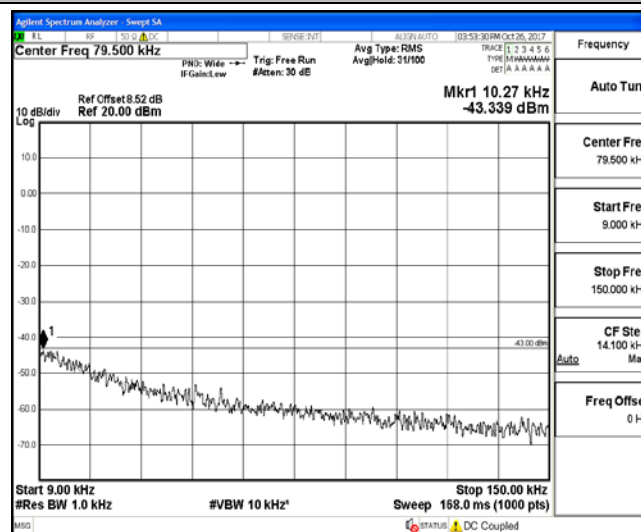
GPRS850_128_1000~9000_-29.49_-13_PASS



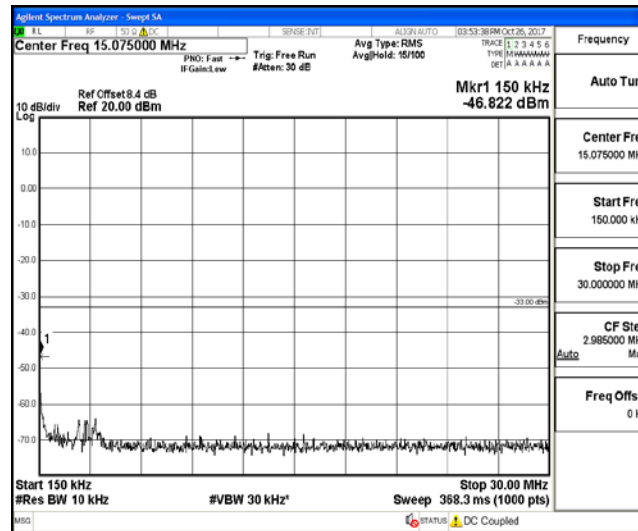
GPRS850_128_0.009~0.15_-46.21_-43_PASS



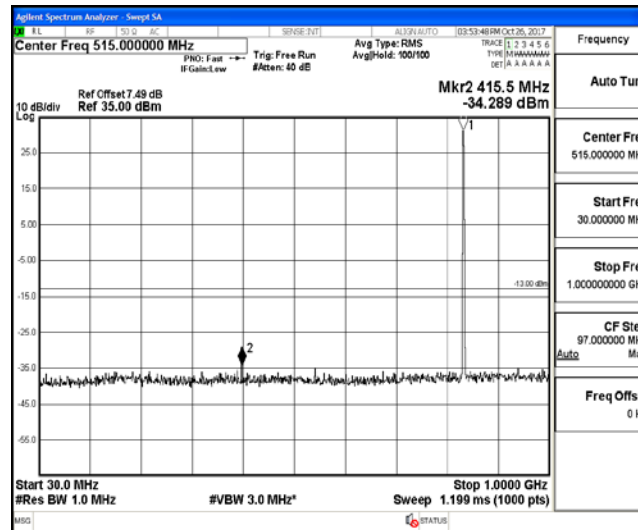
GPRS850_190_0.009~0.15_-43.34_-43_PASS



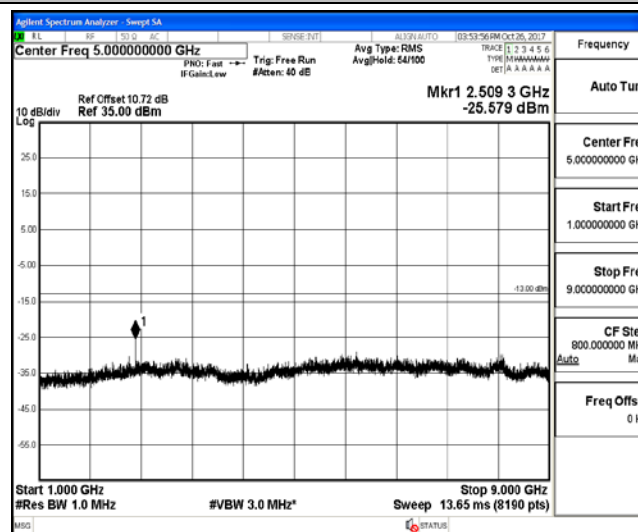
GPRS850_190_0.15~30_-46.82_-33_PASS



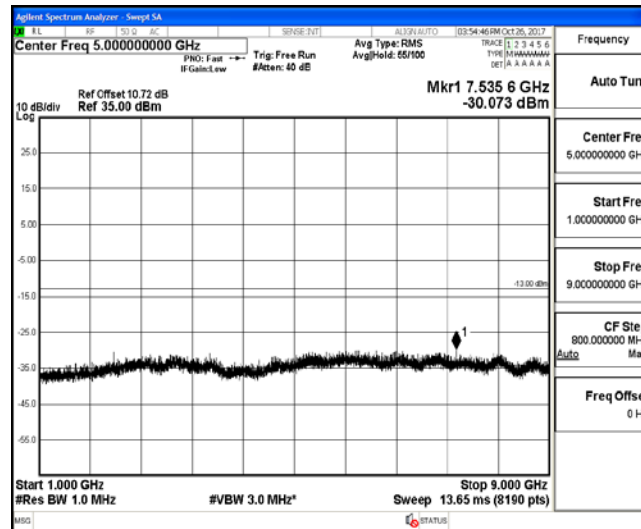
GPRS850_190_30~1000_31.25_-13_PASS



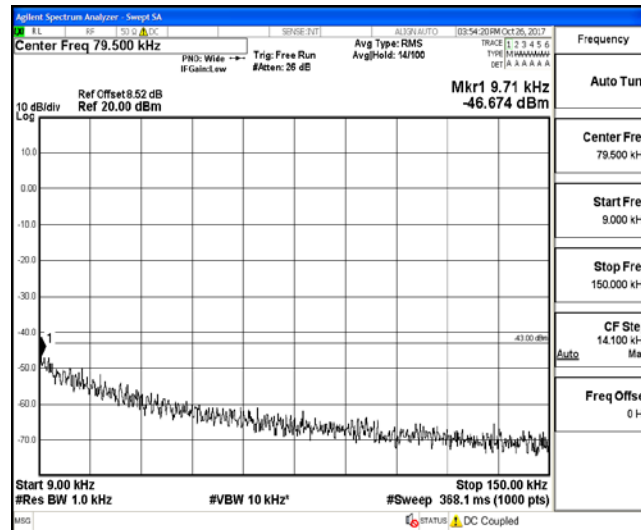
GPRS850_190_1000~9000_-25.58_-13_PASS



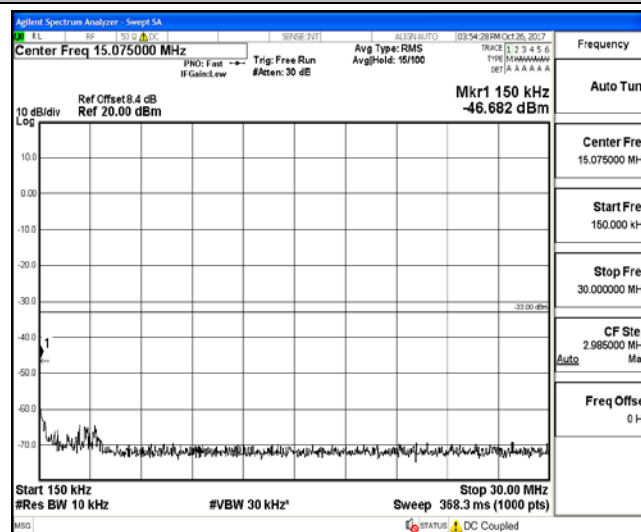
GPRS850_251_1000~9000_-30.07_-13_PASS



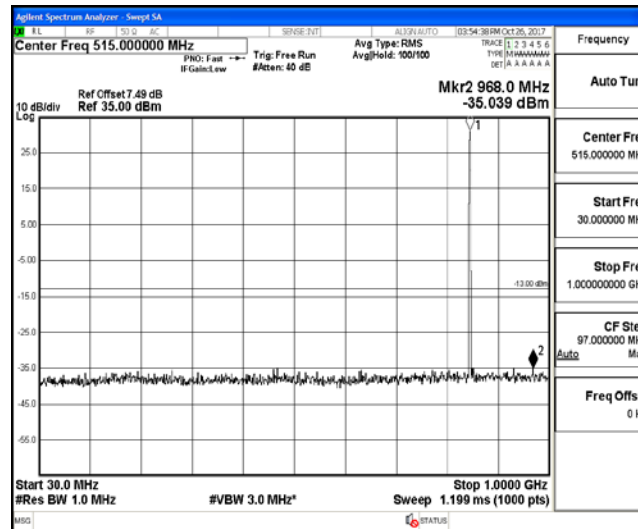
GPRS850_251_0.009~0.15_-46.67_-43_PASS



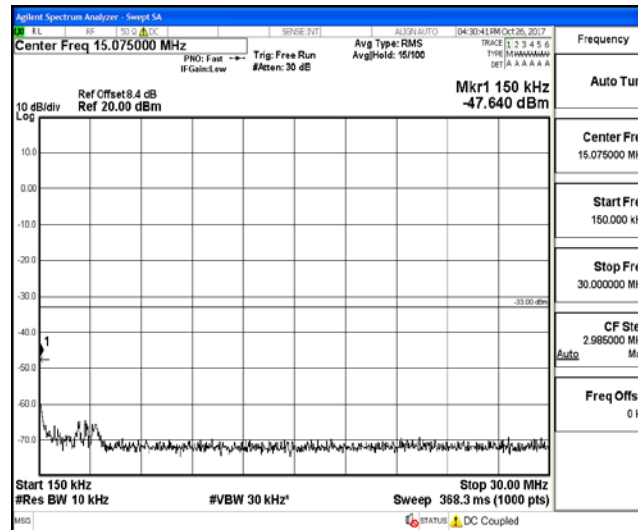
GPRS850_251_0.15~30_-46.68_-33_PASS



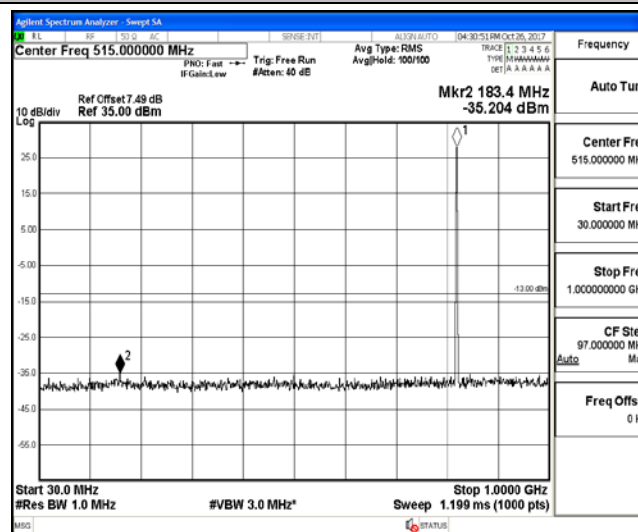
GPRS850_251_30~1000_31.03_-13_PASS



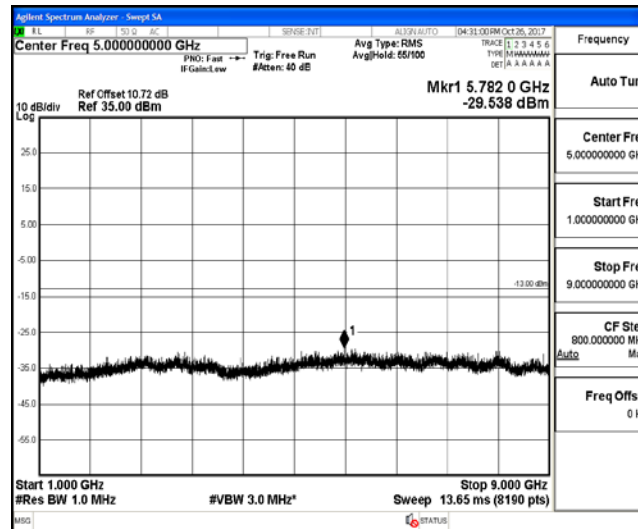
EGPRS850_128_0.15~30_-47.64_-13_PASS



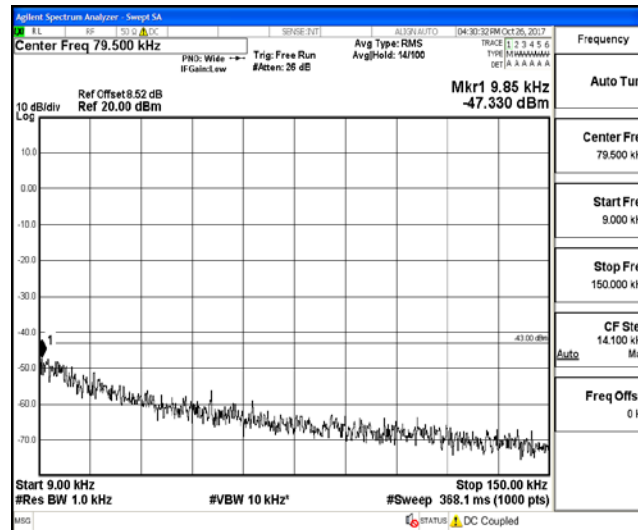
EGPRS850_128_30~1000_28.00_-13_PASS



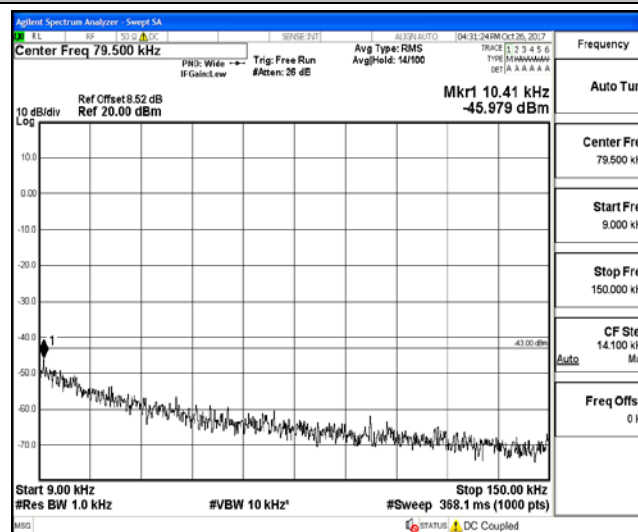
EGPRS850_128_1000~9000_-29.54_-13_PASS



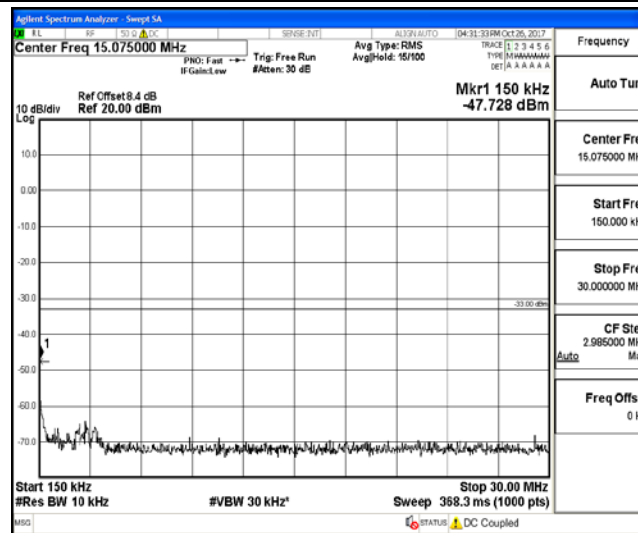
EGPRS850_128_0.009~0.15_-47.33_-43_PASS



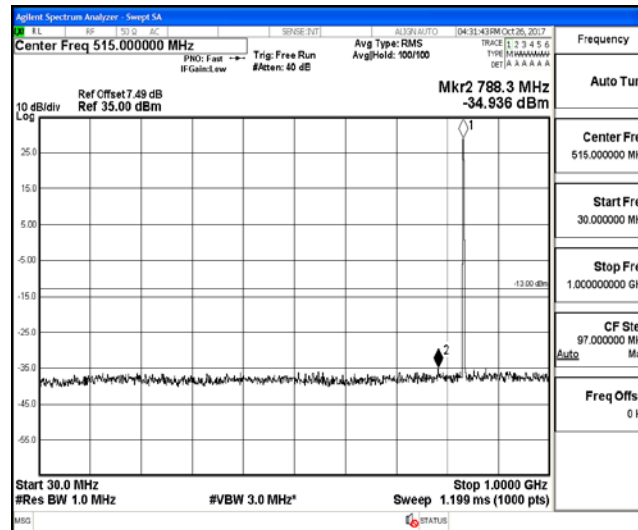
EGPRS850_190_0.009~0.15_-45.98_-43_PASS



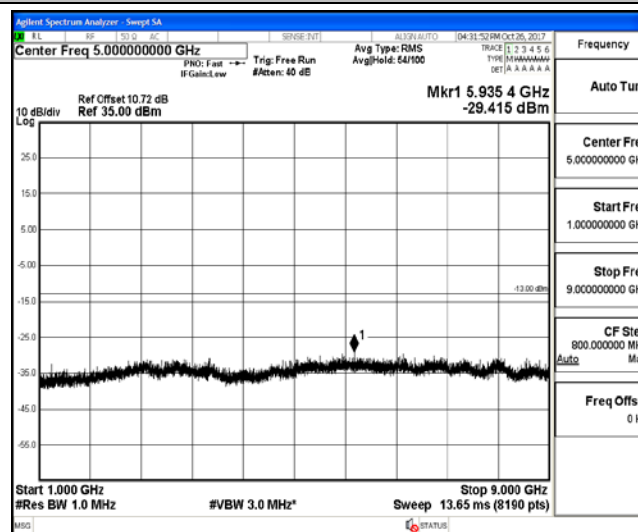
EGPRS850_190_0.15~30_-47.73_-33_PASS



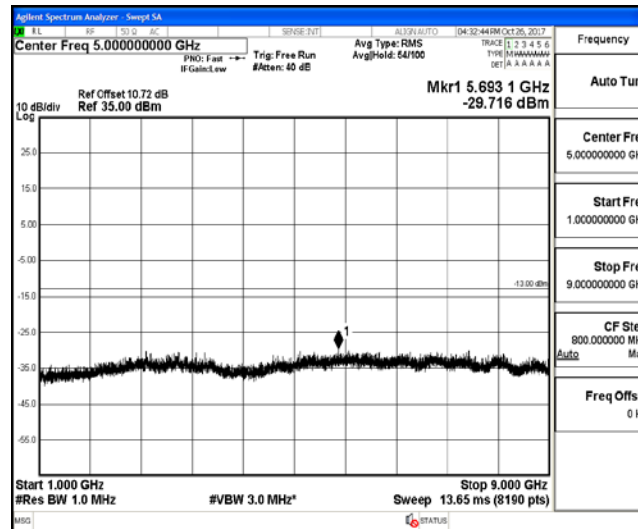
EGPRS850_190_30~1000_28.96_-13_PASS



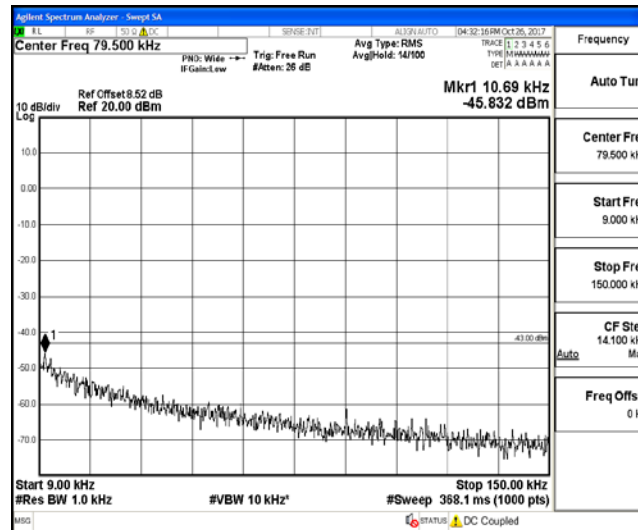
EGPRS850_190_1000~9000_-29.42_-13_PASS



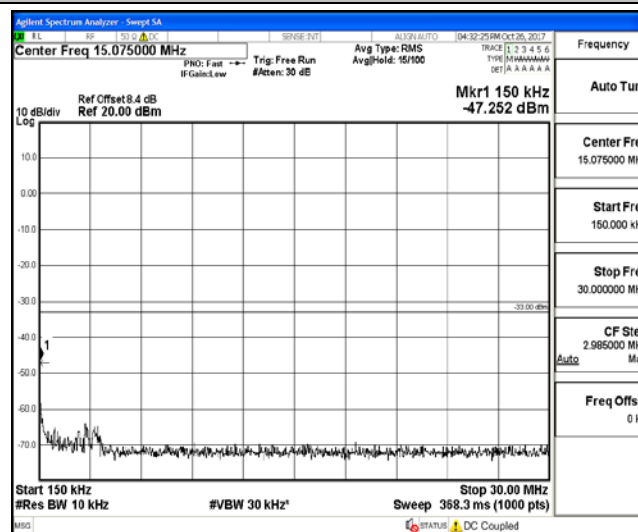
EGPRS850_251_1000~9000_-29.72_-13_PASS



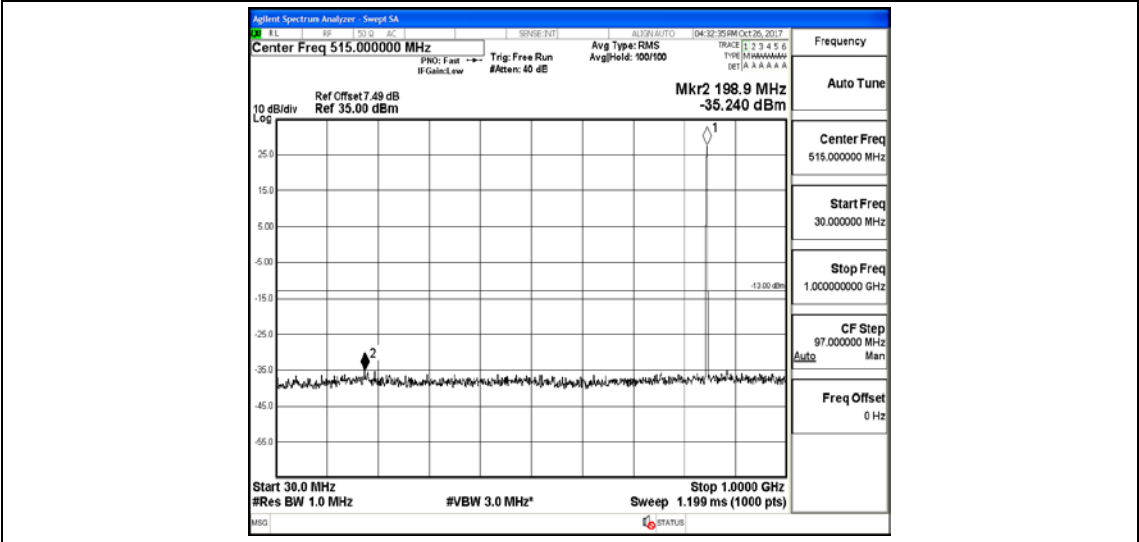
EGPRS850_251_0.009~0.15_-45.83_-43_PASS



EGPRS850_251_0.15~30_-47.25_-33_PASS

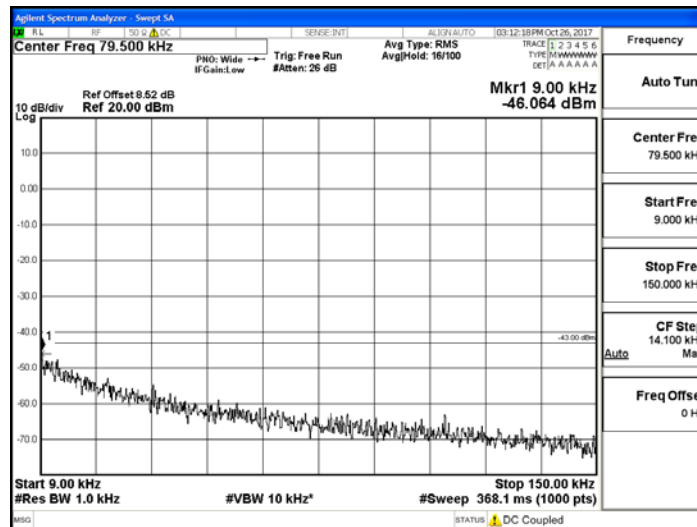


EGPRS850_251_30~1000_27.46_-13_PASS

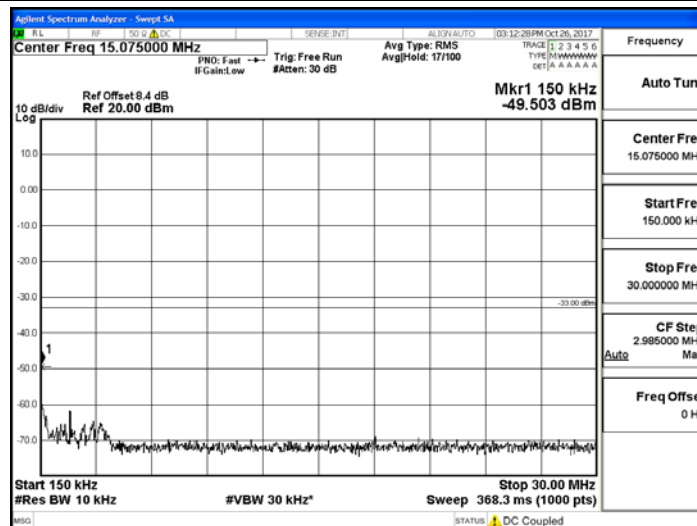


Test GraphsGPRS1900

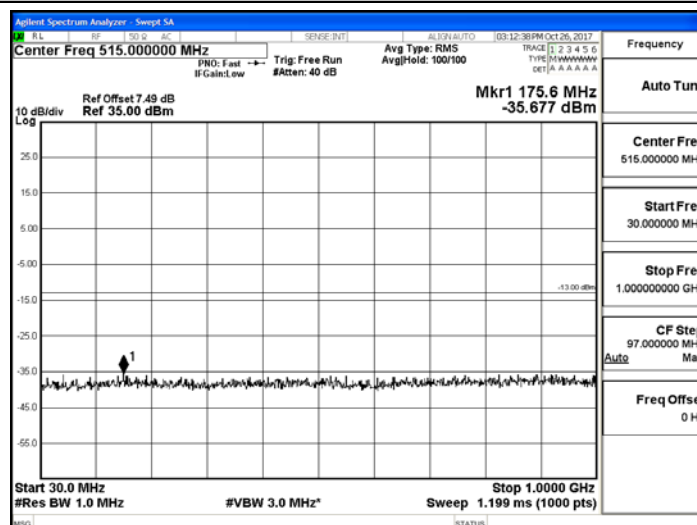
GPRS1900_661_0.09~0.15_-46.06_-43_PASS



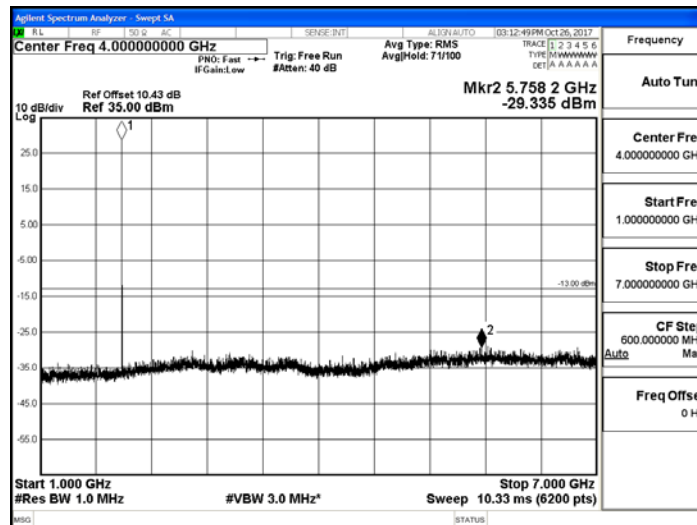
GPRS1900_661_0.15~30_-49.50_-13_PASS



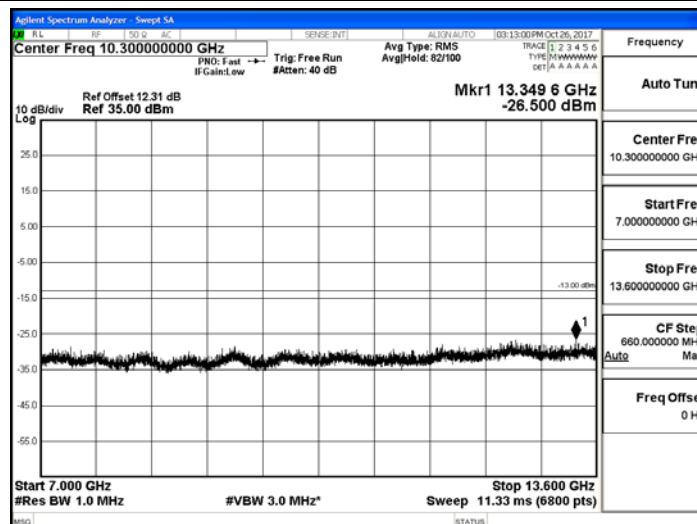
GPRS1900_661_30~1000_-35.68_-13_PASS



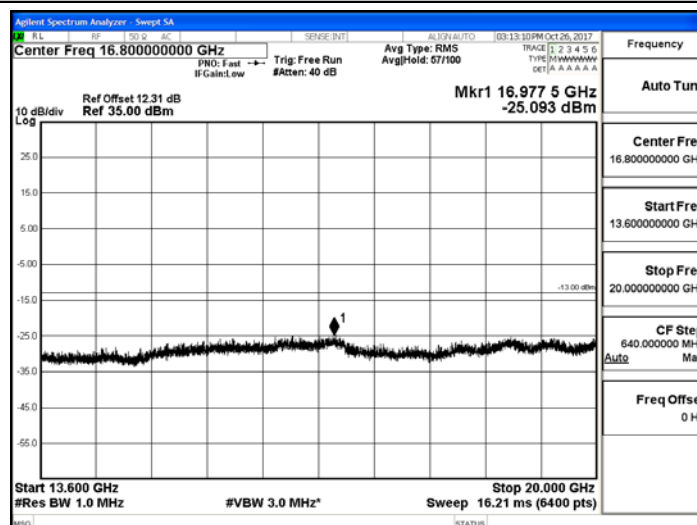
GPRS1900_661_1000~7000_-29.34_-13_PASS



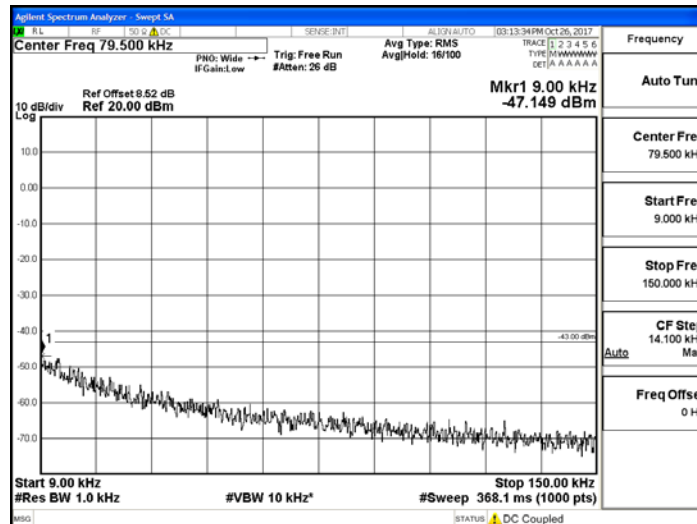
GPRS1900_661_7000~13600_-26.5_-13_PASS



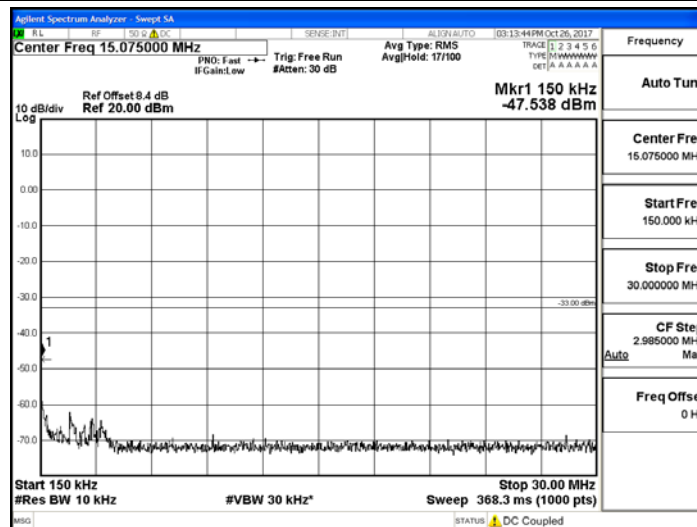
GPRS1900_661_13600~20000_-25.09_-13_PASS



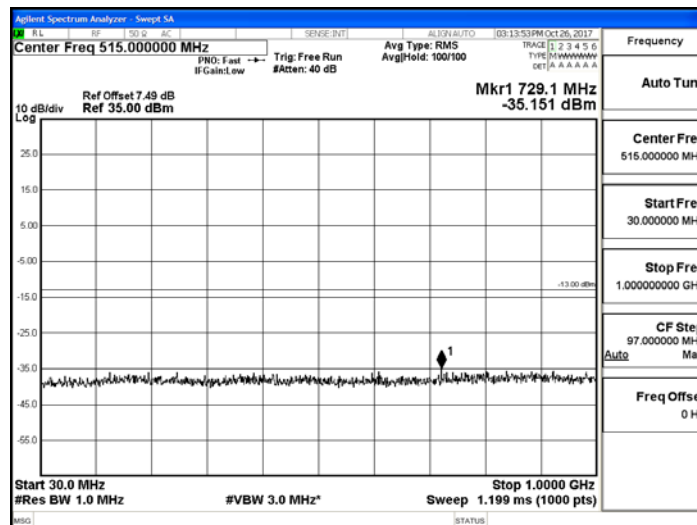
GPRS1900_810_0.09~0.15_-47.15_-43_PASS



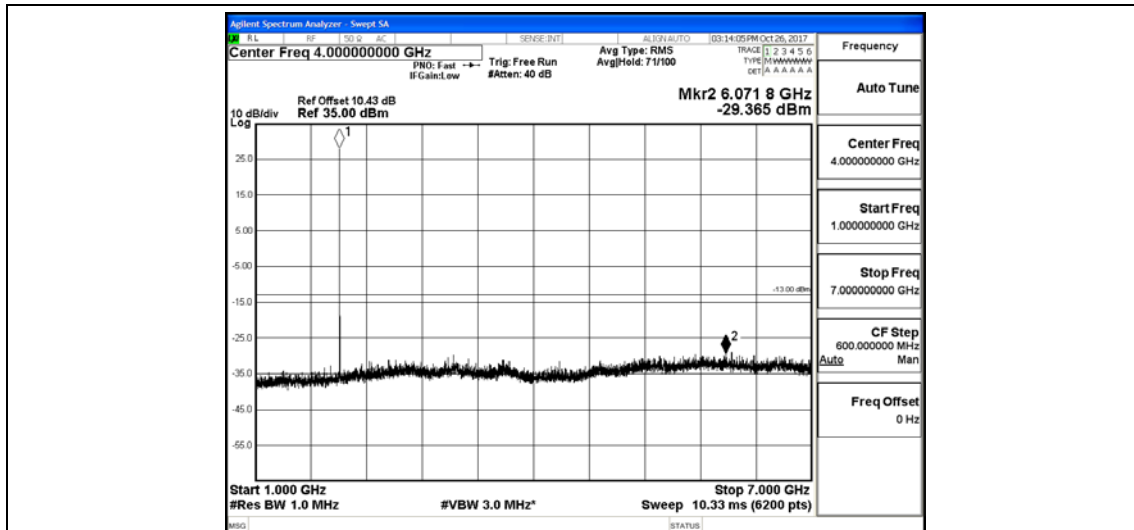
GPRS1900_810_0.15~30_-47.54_-13_PASS



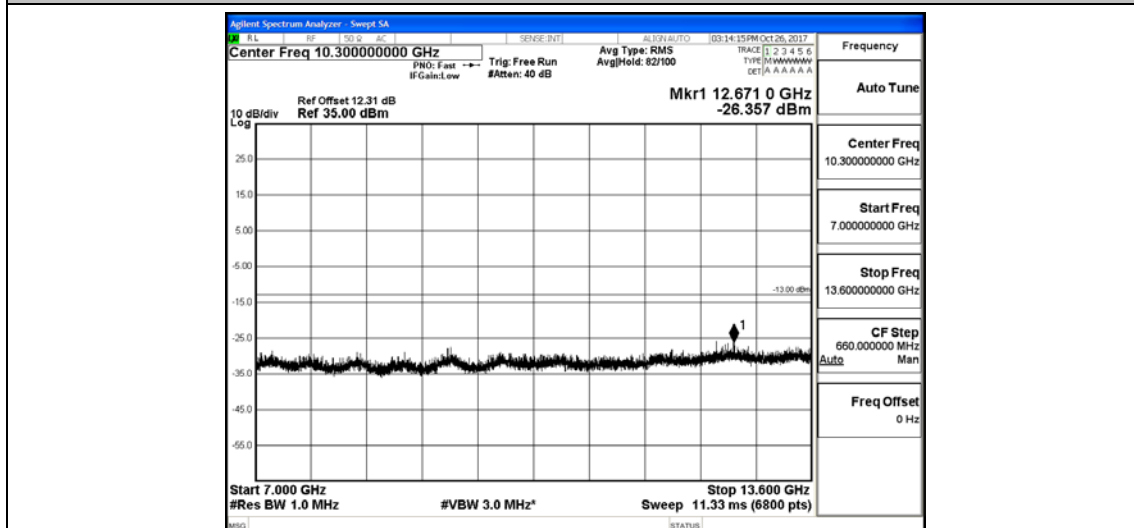
GPRS1900_810_30~1000_-35.15_-13_PASS



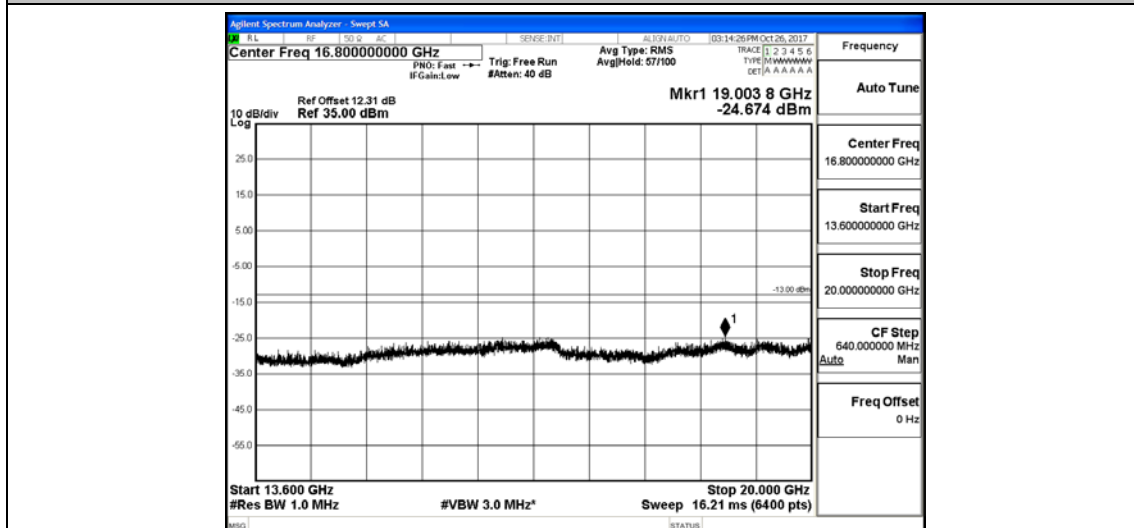
GPRS1900_810_1000~7000_-29.37_-13_PASS



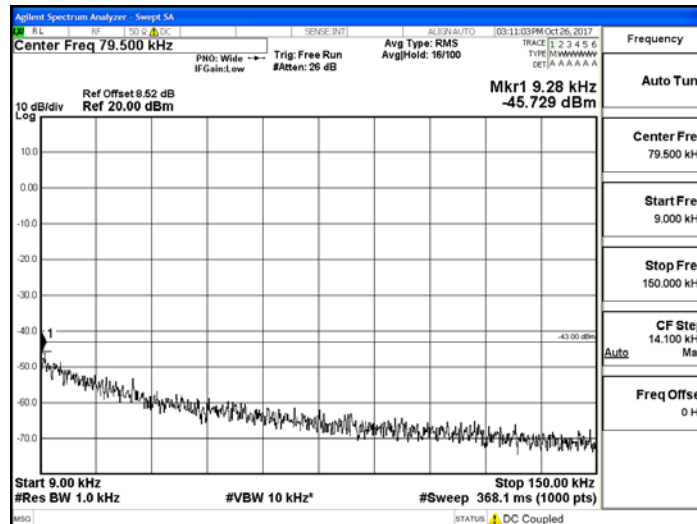
GPRS1900_810_7000~13600_-26.36_-13_PASS



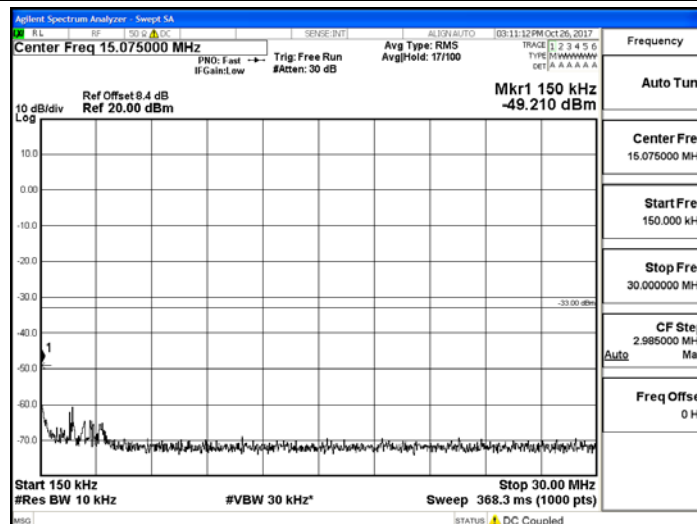
GPRS1900_810_13600~20000_-24.67_-13_PASS



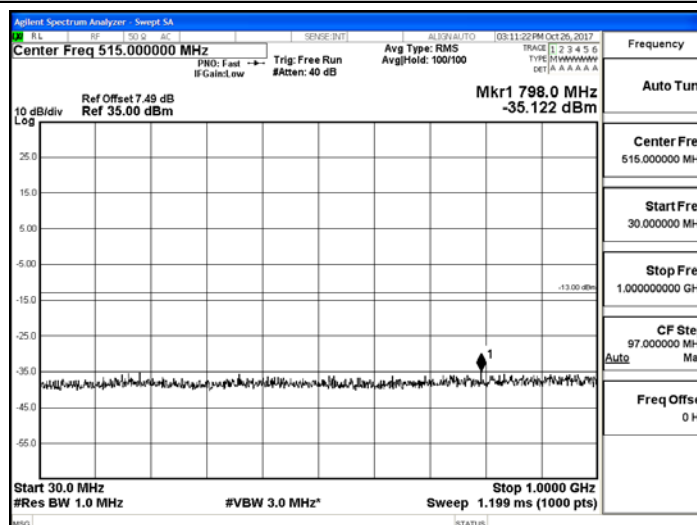
GPRS1900_512_0.09~0.15_-45.73_-43_PASS



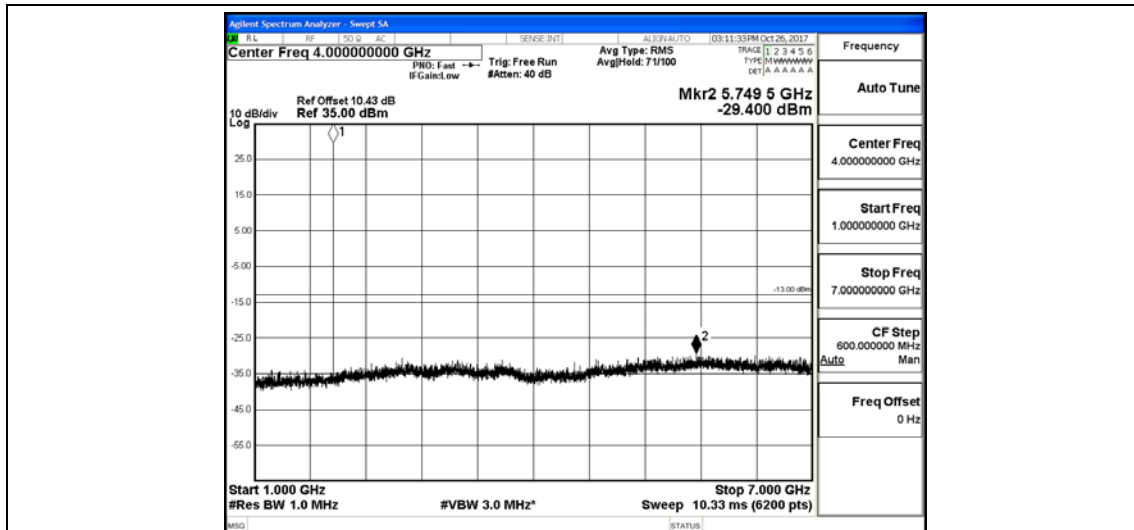
GPRS1900_512_0.15~30_-49.21_-13_PASS



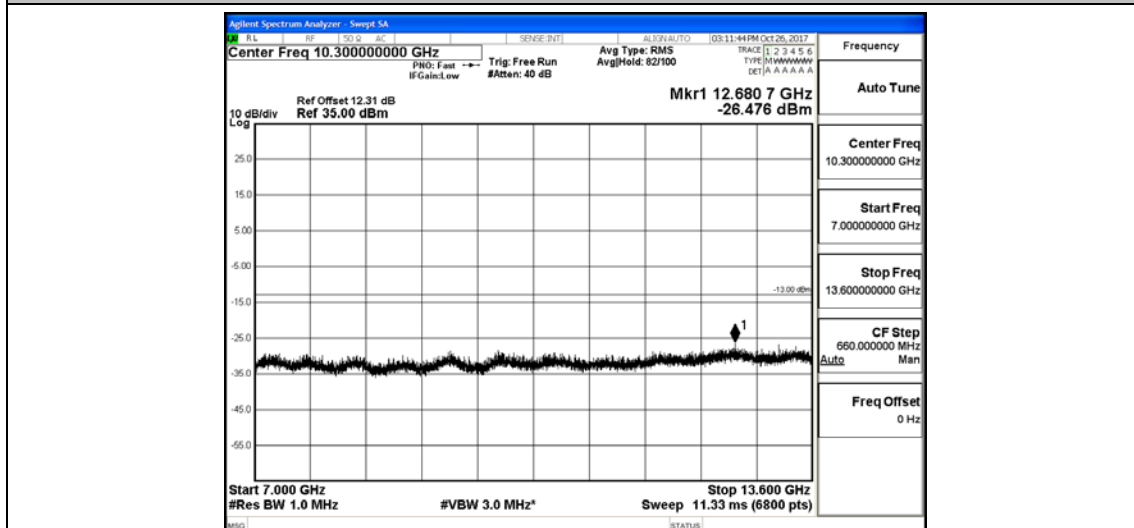
GPRS1900_512_30~1000_-35.12_-13_PASS



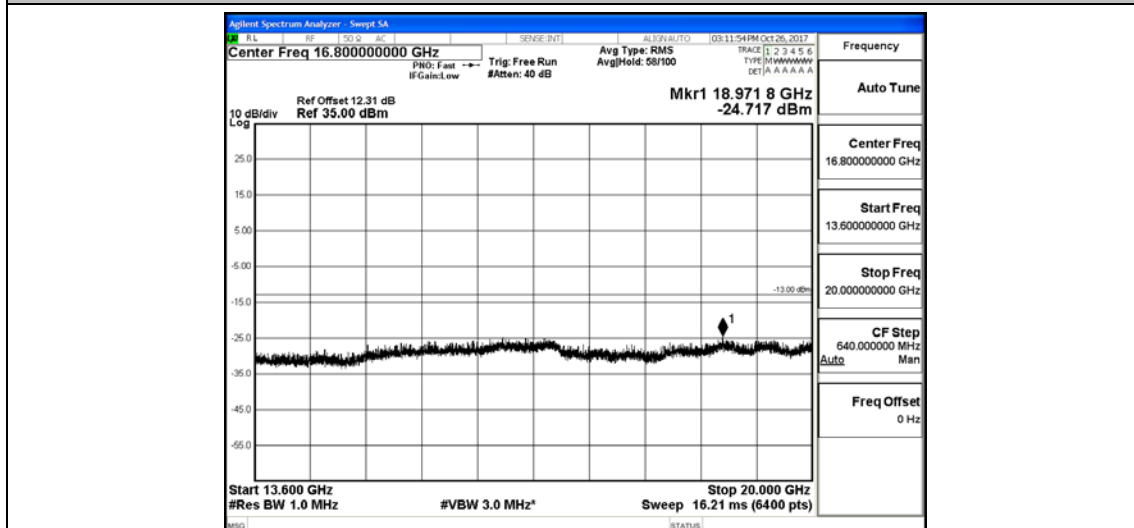
GPRS1900_512_1000~7000_-29.40_-13_PASS



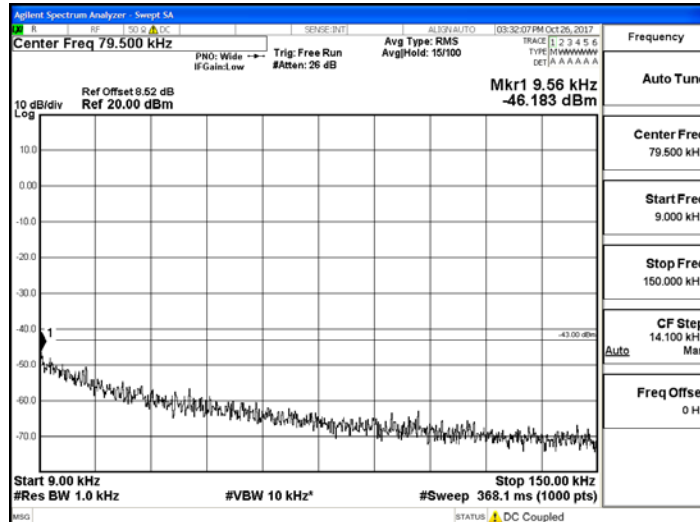
GPRS1900_512_7000~13600_-26.48_-13_PASS



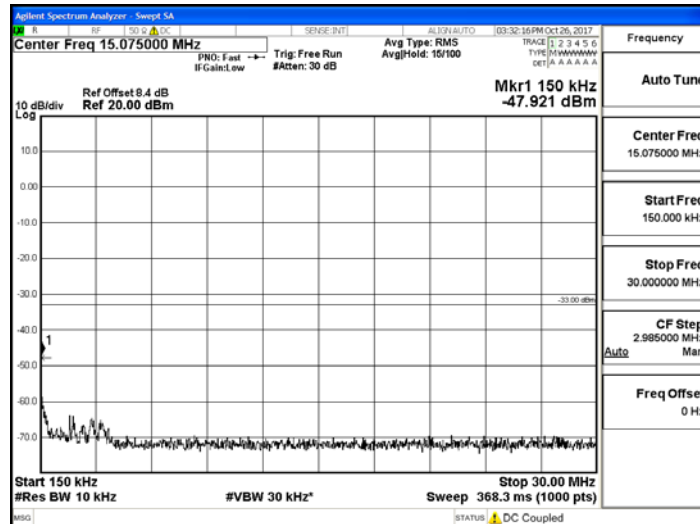
GPRS1900_512_13600~20000_-24.72_-13_PASS



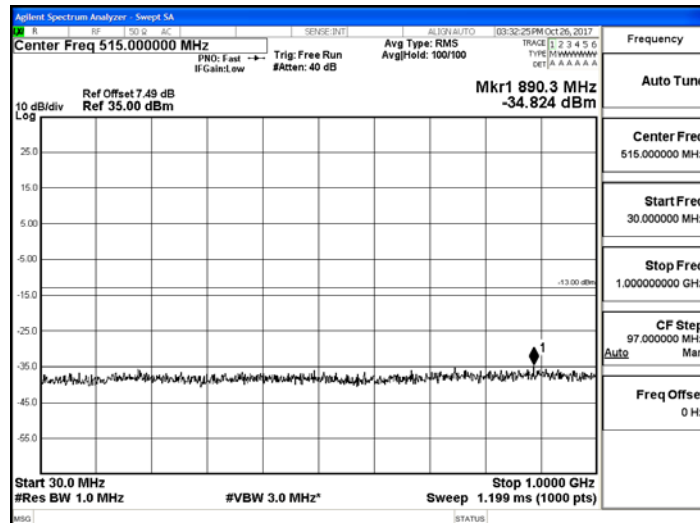
EGPRS1900_661_0.09~0.15_-46.18_-43_PASS



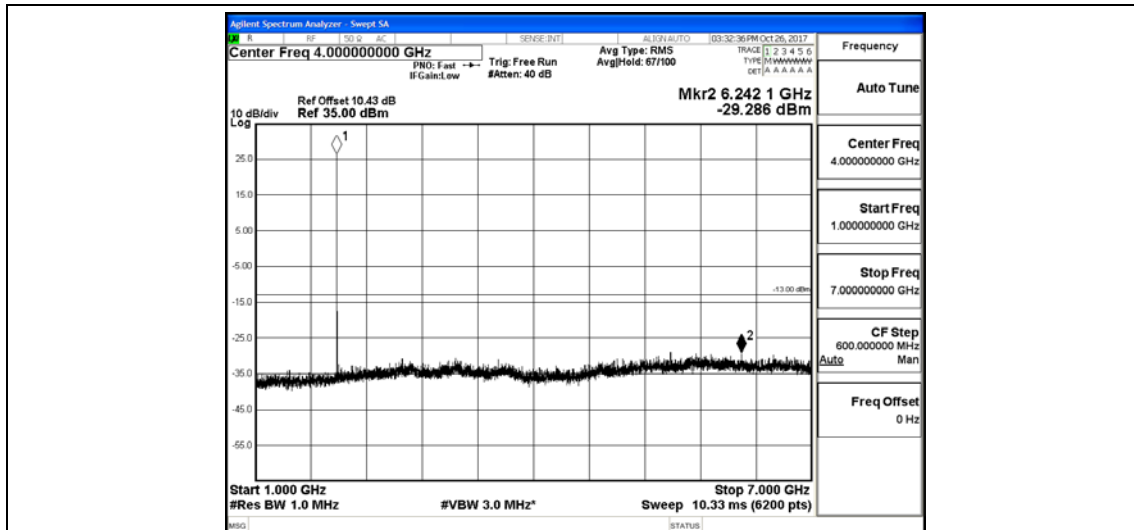
EGPRS1900_661_0.15~30_-47.92_-13_PASS



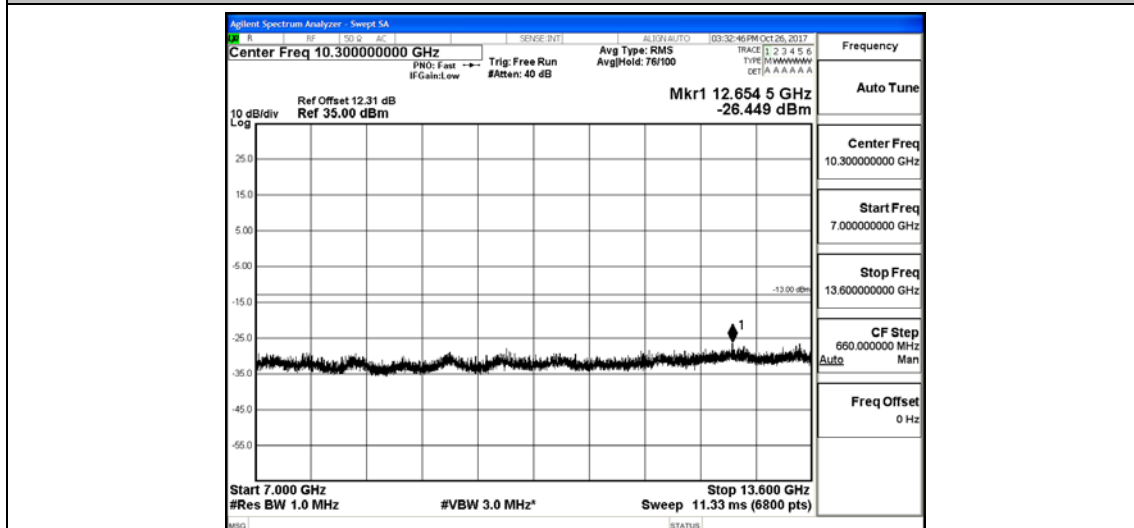
EGPRS1900_661_30~1000_-34.82_-13_PASS



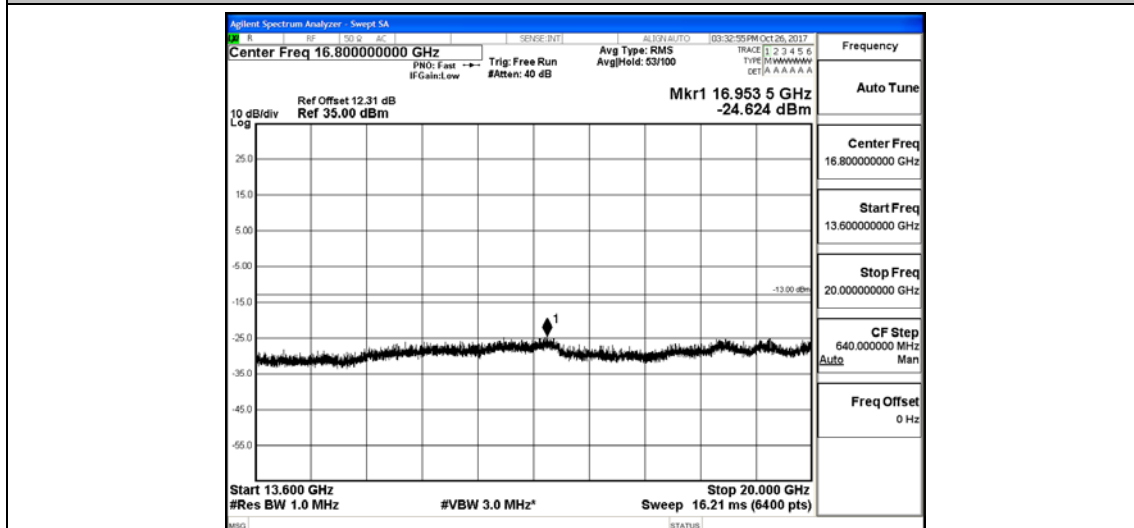
EGPRS1900_661_1000~7000_-29.29_-13_PASS



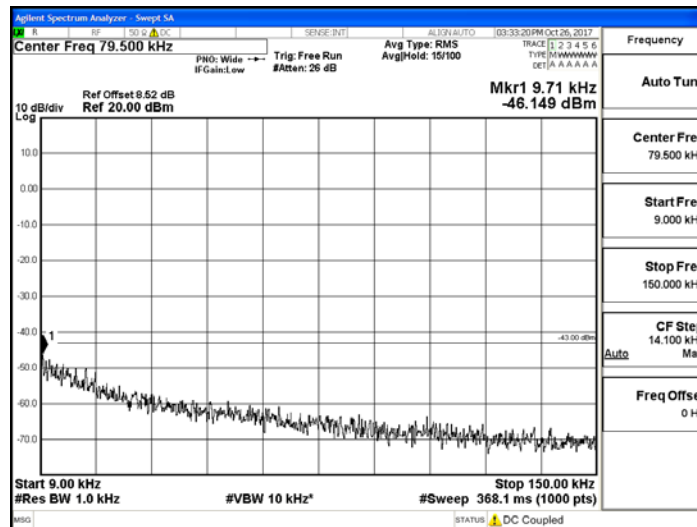
EGPRS1900_661_7000~13600_-26.45_-13_PASS



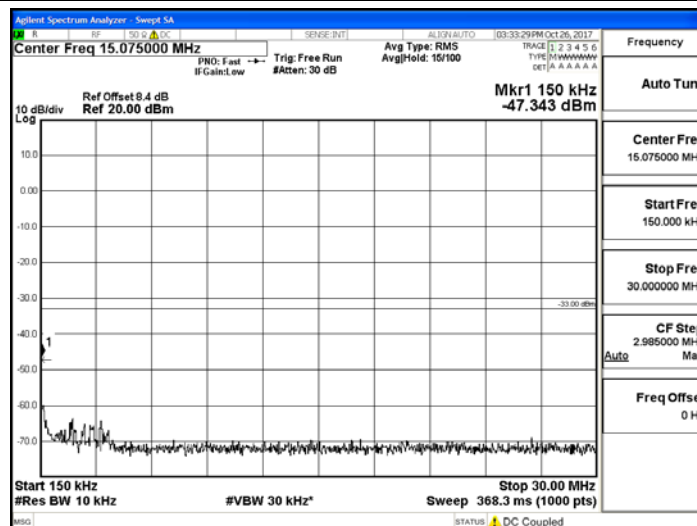
EGPRS1900_661_13600~20000_-24.62_-13_PASS



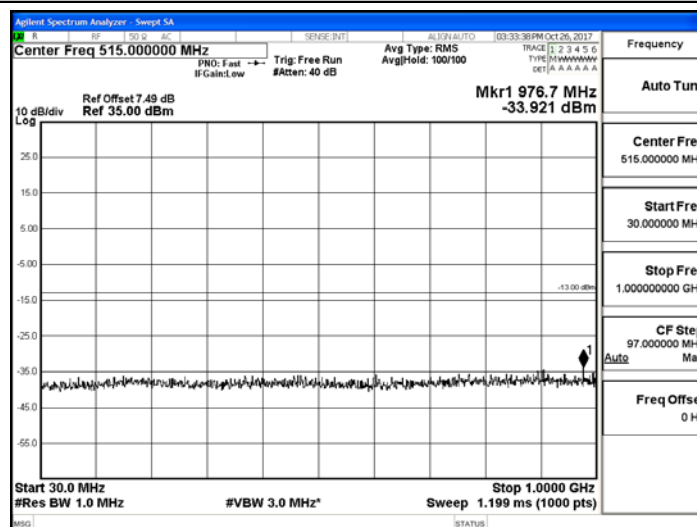
EGPRS1900_810_0.09~0.15_-46.15_-43_PASS



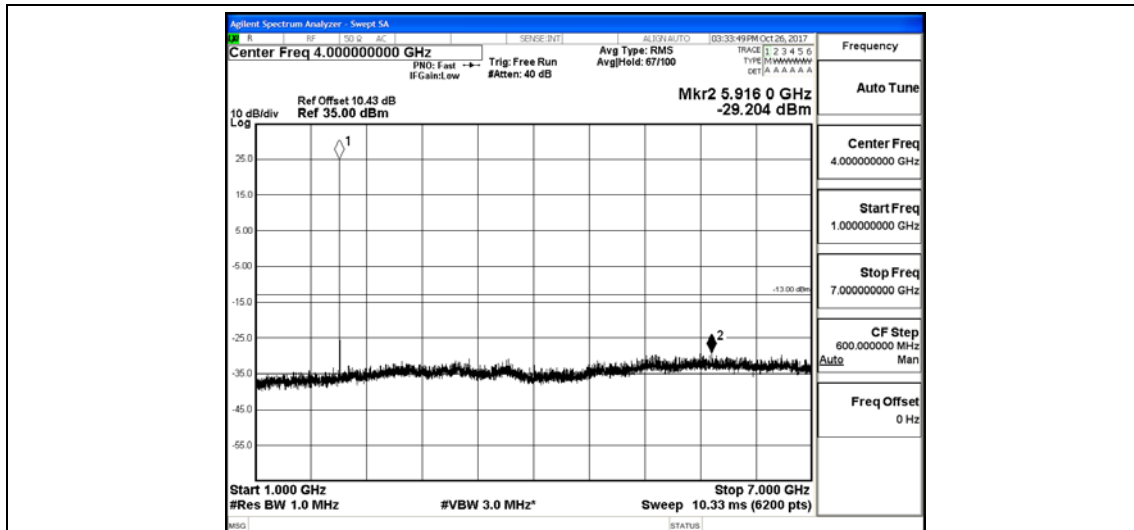
EGPRS1900_810_0.15~30_-47.34_-13_PASS



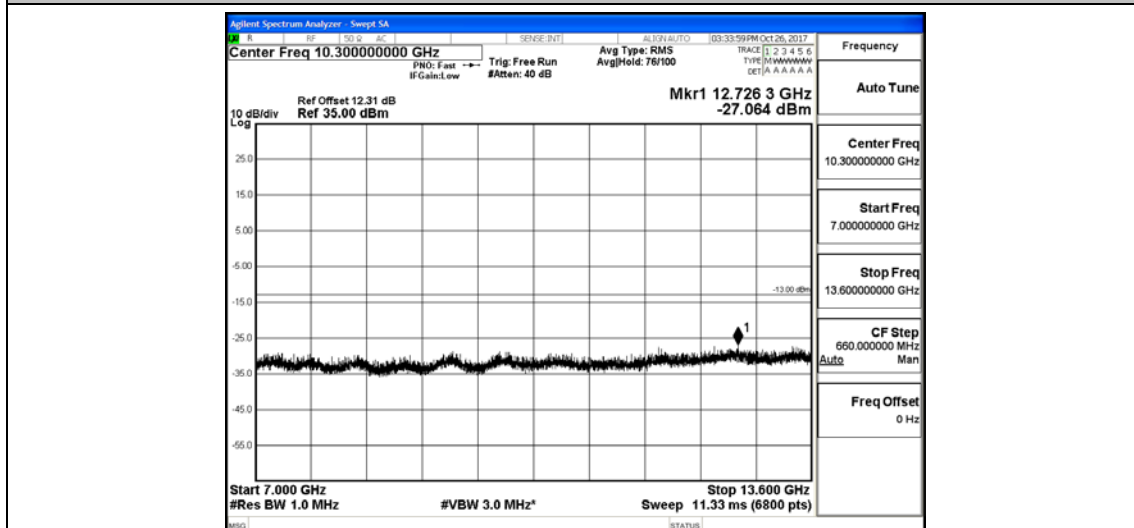
EGPRS1900_810_30~1000_-33.92_-13_PASS



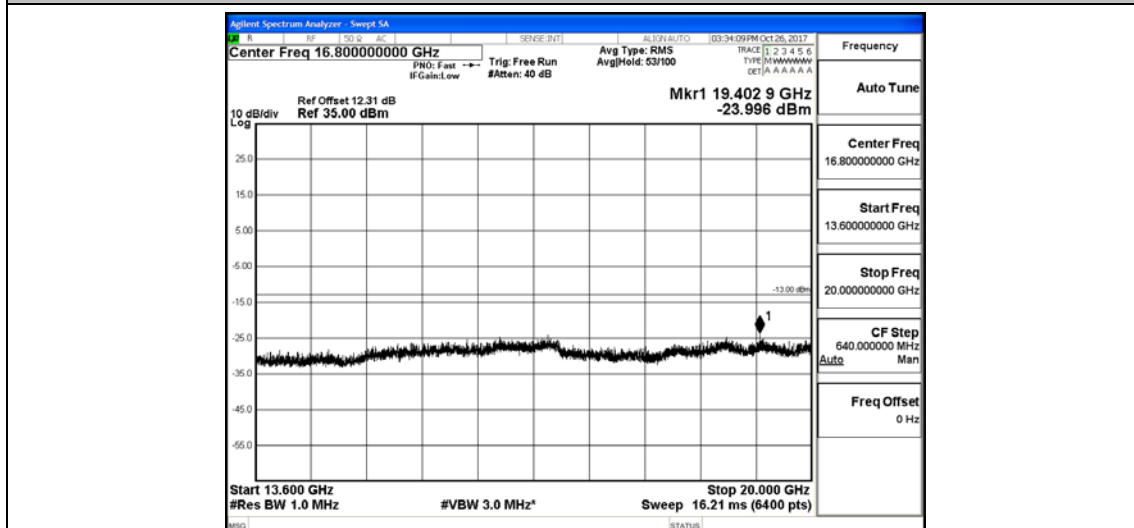
EGPRS1900_810_1000~7000_-29.20_-13_PASS



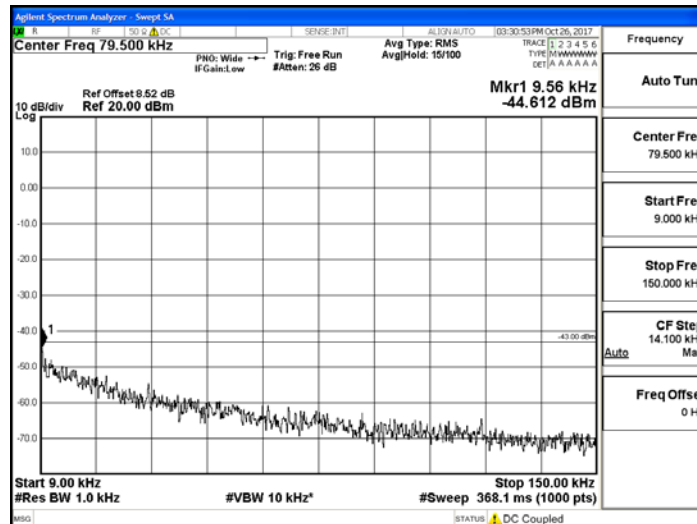
EGPRS1900_810_7000~13600_-27.06_-13_PASS



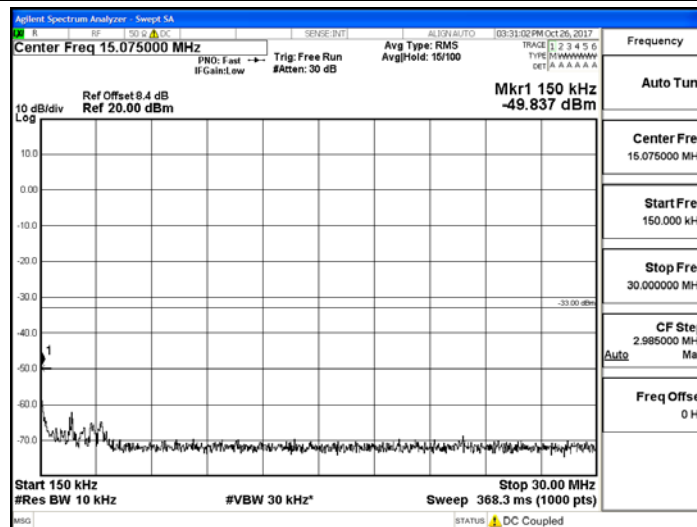
EGPRS1900_810_13600~20000_-24.00_-13_PASS



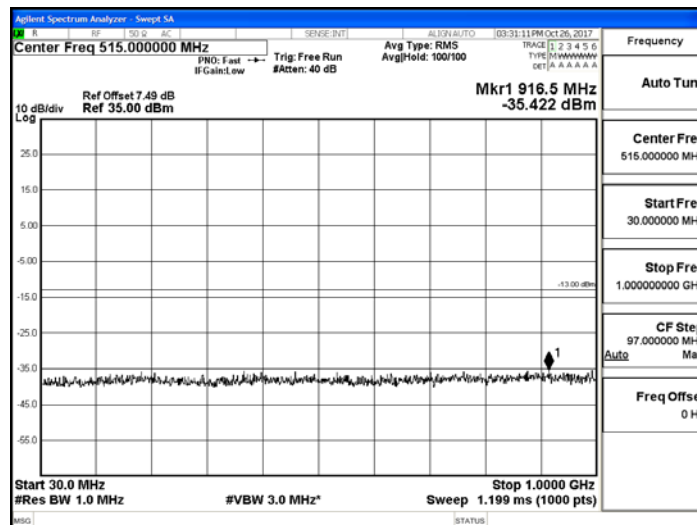
EGPRS1900_512_0.09~0.15_-44.61_-43_PASS



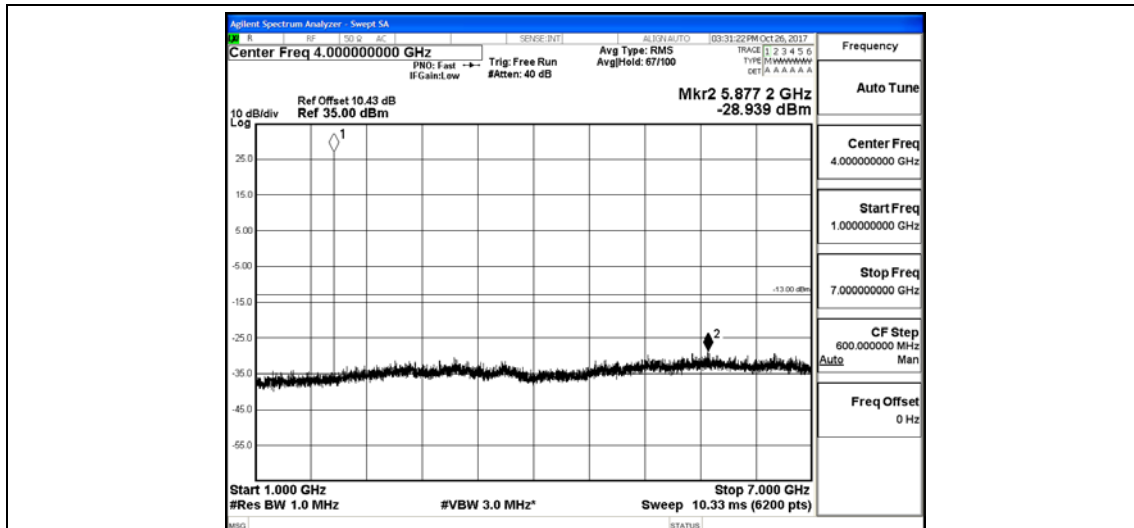
EGPRS1900_512_0.15~30_-49.84_-13_PASS



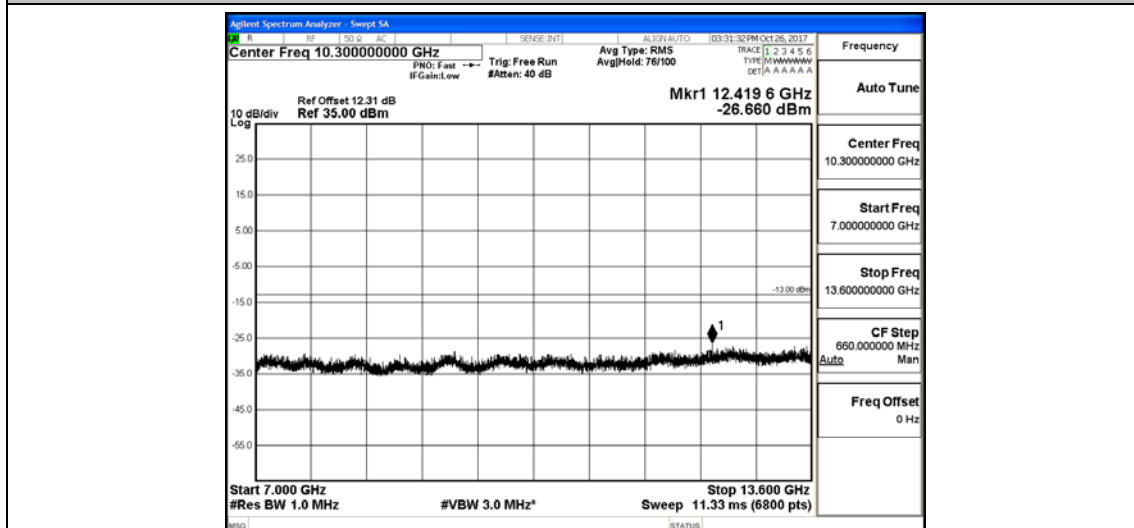
EGPRS1900_512_30~1000_-35.42_-13_PASS



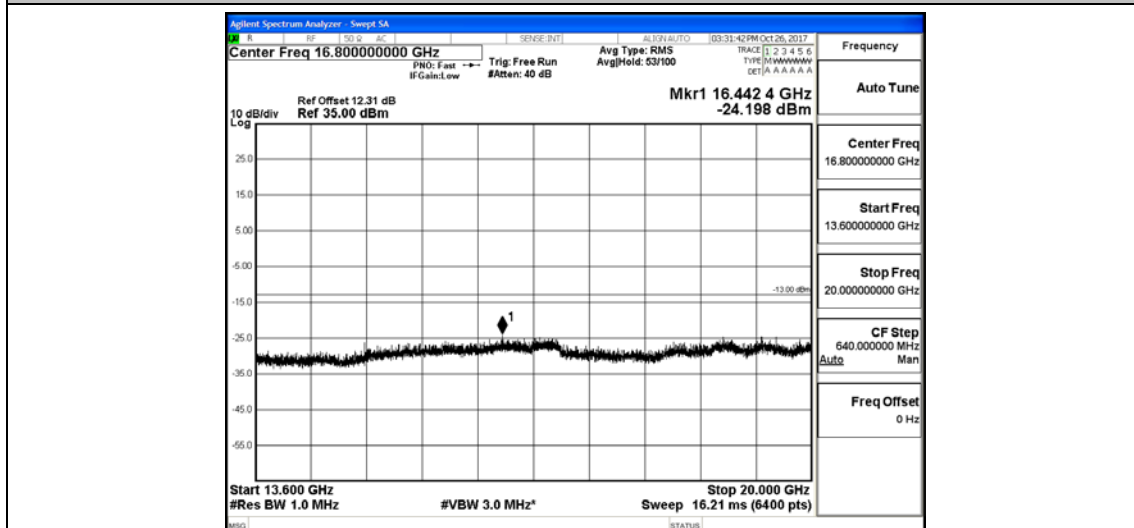
EGPRS1900_512_1000~7000_-28.94_-13_PASS



EGPRS1900_512_7000~13600_-26.66_-13_PASS



EGPRS1900_512_13600~20000_-24.20_-13_PASS



Appendix C.6: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	VH	NT	-2.07	-0.002512	2.5	PASS
GPRS850	128	VL	NT	-2.07	-0.002512	2.5	PASS
GPRS850	128	VN	NT	-1.81	-0.002196	2.5	PASS
GPRS850	190	VH	NT	-1.23	-0.001470	2.5	PASS
GPRS850	190	VL	NT	-2.91	-0.003478	2.5	PASS
GPRS850	190	VN	NT	-2.00	-0.002391	2.5	PASS
GPRS850	251	VH	NT	-0.65	-0.000766	2.5	PASS
GPRS850	251	VL	NT	-1.36	-0.001602	2.5	PASS
GPRS850	251	VN	NT	-0.65	-0.000766	2.5	PASS
EGPRS850	128	VH	NT	-0.03	-0.000036	2.5	PASS
EGPRS850	128	VL	NT	3.07	0.003725	2.5	PASS
EGPRS850	128	VN	NT	0.39	0.000473	2.5	PASS
EGPRS850	190	VH	NT	2.52	0.003012	2.5	PASS
EGPRS850	190	VL	NT	2.49	0.002976	2.5	PASS
EGPRS850	190	VN	NT	1.71	0.002044	2.5	PASS
EGPRS850	251	VH	NT	1.29	0.001520	2.5	PASS
EGPRS850	251	VL	NT	2.03	0.002392	2.5	PASS
EGPRS850	251	VN	NT	2.97	0.003499	2.5	PASS
GPRS1900	512	VH	NT	1.03	0.000557	2.5	PASS
GPRS1900	512	VL	NT	-2.65	-0.001432	2.5	PASS
GPRS1900	512	VN	NT	-2.71	-0.001465	2.5	PASS
GPRS1900	661	VH	NT	-2.45	-0.001303	2.5	PASS
GPRS1900	661	VL	NT	-0.84	-0.000447	2.5	PASS
GPRS1900	661	VN	NT	-1.94	-0.001032	2.5	PASS
GPRS1900	810	VH	NT	-4.20	-0.002199	2.5	PASS
GPRS1900	810	VL	NT	-4.13	-0.002163	2.5	PASS
GPRS1900	810	VN	NT	-3.68	-0.001927	2.5	PASS
EGPRS1900	512	VH	NT	-2.74	-0.001481	2.5	PASS
EGPRS1900	512	VL	NT	2.26	0.001221	2.5	PASS
EGPRS1900	512	VN	NT	-0.19	-0.000103	2.5	PASS
EGPRS1900	661	VH	NT	0.32	0.000170	2.5	PASS
EGPRS1900	661	VL	NT	0.48	0.000255	2.5	PASS
EGPRS1900	661	VN	NT	1.68	0.000894	2.5	PASS
EGPRS1900	810	VH	NT	-1.68	-0.000880	2.5	PASS
EGPRS1900	810	VL	NT	-2.97	-0.001555	2.5	PASS
EGPRS1900	810	VN	NT	-2.26	-0.001183	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	NV	0	-9.56	-0.011599	2.5	PASS

GPRS850	128	NV	10	-8.07	-0.009791	2.5	PASS
GPRS850	128	NV	-10	-6.13	-0.007438	2.5	PASS
GPRS850	128	NV	20	-6.46	-0.007838	2.5	PASS
GPRS850	128	NV	-20	-9.62	-0.011672	2.5	PASS
GPRS850	128	NV	30	-7.68	-0.009318	2.5	PASS
GPRS850	128	NV	-30	-2.07	-0.002512	2.5	PASS
GPRS850	128	NV	40	-7.81	-0.009476	2.5	PASS
GPRS850	128	NV	50	-8.01	-0.009719	2.5	PASS
GPRS850	190	NV	0	-6.01	-0.007184	2.5	PASS
GPRS850	190	NV	10	-4.78	-0.005714	2.5	PASS
GPRS850	190	NV	-10	-4.78	-0.005714	2.5	PASS
GPRS850	190	NV	20	-5.10	-0.006096	2.5	PASS
GPRS850	190	NV	-20	-5.55	-0.006634	2.5	PASS
GPRS850	190	NV	30	-3.68	-0.004399	2.5	PASS
GPRS850	190	NV	-30	-1.23	-0.001470	2.5	PASS
GPRS850	190	NV	40	-5.55	-0.006634	2.5	PASS
GPRS850	190	NV	50	-7.94	-0.009491	2.5	PASS
GPRS850	251	NV	0	-5.81	-0.006845	2.5	PASS
GPRS850	251	NV	10	-4.97	-0.005855	2.5	PASS
GPRS850	251	NV	-10	-6.59	-0.007764	2.5	PASS
GPRS850	251	NV	20	-5.10	-0.006008	2.5	PASS
GPRS850	251	NV	-20	-7.88	-0.009284	2.5	PASS
GPRS850	251	NV	30	-4.33	-0.005101	2.5	PASS
GPRS850	251	NV	-30	-1.68	-0.001979	2.5	PASS
GPRS850	251	NV	40	-5.68	-0.006692	2.5	PASS
GPRS850	251	NV	50	-4.00	-0.004713	2.5	PASS
EGPRS850	128	NV	0	-0.61	-0.000740	2.5	PASS
EGPRS850	128	NV	10	-0.61	-0.000740	2.5	PASS
EGPRS850	128	NV	-10	-0.03	-0.000036	2.5	PASS
EGPRS850	128	NV	20	2.81	0.003409	2.5	PASS
EGPRS850	128	NV	-20	0.52	0.000631	2.5	PASS
EGPRS850	128	NV	30	2.84	0.003446	2.5	PASS
EGPRS850	128	NV	-30	3.62	0.004392	2.5	PASS
EGPRS850	128	NV	40	1.97	0.002390	2.5	PASS
EGPRS850	128	NV	50	2.26	0.002742	2.5	PASS
EGPRS850	190	NV	0	1.65	0.001972	2.5	PASS
EGPRS850	190	NV	10	3.55	0.004243	2.5	PASS
EGPRS850	190	NV	-10	2.78	0.003323	2.5	PASS
EGPRS850	190	NV	20	1.78	0.002128	2.5	PASS
EGPRS850	190	NV	-20	3.39	0.004052	2.5	PASS
EGPRS850	190	NV	30	4.04	0.004829	2.5	PASS
EGPRS850	190	NV	-30	2.20	0.002630	2.5	PASS
EGPRS850	190	NV	40	3.20	0.003825	2.5	PASS
EGPRS850	190	NV	50	0.77	0.000920	2.5	PASS
EGPRS850	251	NV	0	5.07	0.005973	2.5	PASS
EGPRS850	251	NV	10	3.33	0.003923	2.5	PASS
EGPRS850	251	NV	-10	3.13	0.003688	2.5	PASS
EGPRS850	251	NV	20	1.36	0.001602	2.5	PASS
EGPRS850	251	NV	-20	3.65	0.004300	2.5	PASS
EGPRS850	251	NV	30	5.17	0.006091	2.5	PASS

EGPRS850	251	NV	-30	-0.29	-0.000342	2.5	PASS
EGPRS850	251	NV	40	4.91	0.005785	2.5	PASS
EGPRS850	251	NV	50	2.20	0.002592	2.5	PASS
GPRS1900	512	NV	0	-4.20	-0.002270	2.5	PASS
GPRS1900	512	NV	10	-4.97	-0.002686	2.5	PASS
GPRS1900	512	NV	-10	-7.62	-0.004118	2.5	PASS
GPRS1900	512	NV	20	-2.45	-0.001324	2.5	PASS
GPRS1900	512	NV	-20	-8.46	-0.004572	2.5	PASS
GPRS1900	512	NV	30	-6.72	-0.003632	2.5	PASS
GPRS1900	512	NV	-30	-0.19	-0.000103	2.5	PASS
GPRS1900	512	NV	40	-8.59	-0.004643	2.5	PASS
GPRS1900	512	NV	50	-6.72	-0.003632	2.5	PASS
GPRS1900	661	NV	0	-6.33	-0.003367	2.5	PASS
GPRS1900	661	NV	10	-9.43	-0.005016	2.5	PASS
GPRS1900	661	NV	-10	-10.85	-0.005771	2.5	PASS
GPRS1900	661	NV	20	-5.10	-0.002713	2.5	PASS
GPRS1900	661	NV	-20	-4.33	-0.002303	2.5	PASS
GPRS1900	661	NV	30	-2.00	-0.001064	2.5	PASS
GPRS1900	661	NV	-30	-4.71	-0.002505	2.5	PASS
GPRS1900	661	NV	40	-9.75	-0.005186	2.5	PASS
GPRS1900	661	NV	50	-9.04	-0.004809	2.5	PASS
GPRS1900	810	NV	0	-10.85	-0.005681	2.5	PASS
GPRS1900	810	NV	10	-9.49	-0.004969	2.5	PASS
GPRS1900	810	NV	-10	-7.10	-0.003718	2.5	PASS
GPRS1900	810	NV	20	-6.65	-0.003482	2.5	PASS
GPRS1900	810	NV	-20	-6.65	-0.003482	2.5	PASS
GPRS1900	810	NV	30	-7.68	-0.004021	2.5	PASS
GPRS1900	810	NV	-30	-4.39	-0.002299	2.5	PASS
GPRS1900	810	NV	40	-2.32	-0.001215	2.5	PASS
GPRS1900	810	NV	50	-4.91	-0.002571	2.5	PASS
EGPRS1900	512	NV	0	-1.42	-0.000767	2.5	PASS
EGPRS1900	512	NV	10	2.45	0.001324	2.5	PASS
EGPRS1900	512	NV	-10	-3.23	-0.001746	2.5	PASS
EGPRS1900	512	NV	20	0.32	0.000173	2.5	PASS
EGPRS1900	512	NV	-20	-7.59	-0.004102	2.5	PASS
EGPRS1900	512	NV	30	0.26	0.000141	2.5	PASS
EGPRS1900	512	NV	-30	-9.14	-0.004940	2.5	PASS
EGPRS1900	512	NV	40	5.49	0.002967	2.5	PASS
EGPRS1900	512	NV	50	2.16	0.001167	2.5	PASS
EGPRS1900	661	NV	0	0.19	0.000101	2.5	PASS
EGPRS1900	661	NV	10	0.94	0.000500	2.5	PASS
EGPRS1900	661	NV	-10	1.78	0.000947	2.5	PASS
EGPRS1900	661	NV	20	-1.81	-0.000963	2.5	PASS
EGPRS1900	661	NV	-20	3.10	0.001649	2.5	PASS
EGPRS1900	661	NV	30	0.84	0.000447	2.5	PASS
EGPRS1900	661	NV	-30	4.62	0.002457	2.5	PASS
EGPRS1900	661	NV	40	2.49	0.001324	2.5	PASS
EGPRS1900	661	NV	50	3.87	0.002059	2.5	PASS
EGPRS1900	810	NV	0	-4.46	-0.002335	2.5	PASS
EGPRS1900	810	NV	10	1.39	0.000728	2.5	PASS

EGPRS1900	810	NV	-10	2.36	0.001236	2.5	PASS
EGPRS1900	810	NV	20	4.81	0.002519	2.5	PASS
EGPRS1900	810	NV	-20	-6.23	-0.003262	2.5	PASS
EGPRS1900	810	NV	30	6.01	0.003147	2.5	PASS
EGPRS1900	810	NV	-30	-4.49	-0.002351	2.5	PASS
EGPRS1900	810	NV	40	1.13	0.000592	2.5	PASS
EGPRS1900	810	NV	50	-1.78	-0.000932	2.5	PASS