



## GSM1900\_512



## GSM1900\_810



## GPRS1900\_512



## GPRS1900\_810



## EGPRS1900\_512



## EGPRS1900\_810



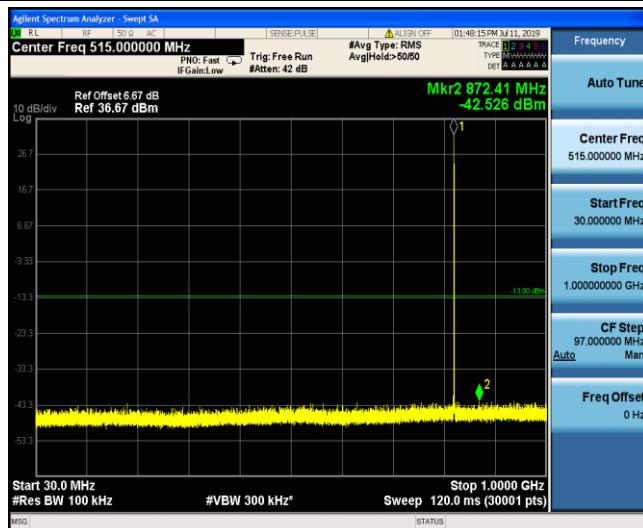
## 8.5 Appendix E: Conducted Spurious Emission

### Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	30~1000	-42.53	-13	PASS
GSM850	128	1000~10000	-37.66	-13	PASS
GSM850	190	30~1000	-41.71	-13	PASS
GSM850	190	1000~10000	-37.60	-13	PASS
GSM850	251	30~1000	-41.71	-13	PASS
GSM850	251	1000~10000	-37.56	-13	PASS
GPRS850	128	30~1000	-42.55	-13	PASS
GPRS850	128	1000~10000	-37.62	-13	PASS
GPRS850	190	30~1000	-41.76	-13	PASS
GPRS850	190	1000~10000	-37.49	-13	PASS
GPRS850	251	30~1000	-41.59	-13	PASS
GPRS850	251	1000~10000	-37.67	-13	PASS
EGPRS850	128	30~1000	-42.44	-13	PASS
EGPRS850	128	1000~10000	-37.52	-13	PASS
EGPRS850	190	30~1000	-41.77	-13	PASS
EGPRS850	190	1000~10000	-37.65	-13	PASS
EGPRS850	251	30~1000	-42.40	-13	PASS
EGPRS850	251	1000~10000	-37.45	-13	PASS
GSM1900	512	30~1000	-42.07	-13	PASS
GSM1900	512	1000~20000	-30.94	-13	PASS
GSM1900	661	30~1000	-42.17	-13	PASS
GSM1900	661	1000~20000	-31.05	-13	PASS
GSM1900	810	30~1000	-42.31	-13	PASS
GSM1900	810	1000~20000	-30.95	-13	PASS
GPRS1900	512	30~1000	-41.89	-13	PASS
GPRS1900	512	1000~20000	-30.98	-13	PASS
GPRS1900	661	30~1000	-42.21	-13	PASS
GPRS1900	661	1000~20000	-30.98	-13	PASS
GPRS1900	810	30~1000	-42.50	-13	PASS
GPRS1900	810	1000~20000	-30.90	-13	PASS
EGPRS1900	512	30~1000	-42.03	-13	PASS
EGPRS1900	512	1000~20000	-30.92	-13	PASS
EGPRS1900	661	30~1000	-42.83	-13	PASS
EGPRS1900	661	1000~20000	-30.90	-13	PASS
EGPRS1900	810	30~1000	-41.88	-13	PASS
EGPRS1900	810	1000~20000	-30.74	-13	PASS



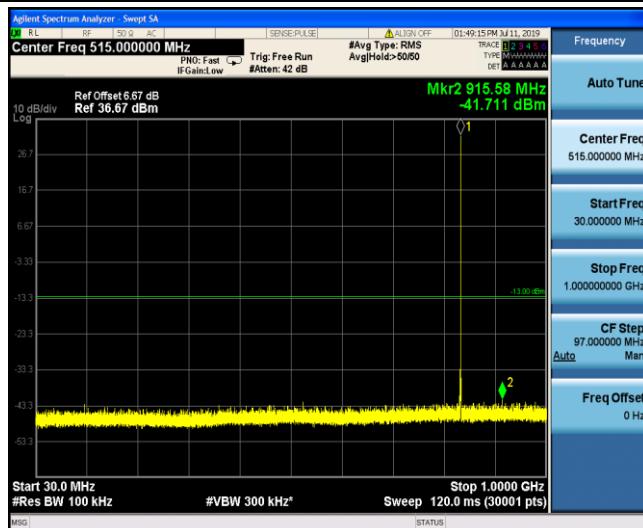
## Test Graphs



GSM850\_128



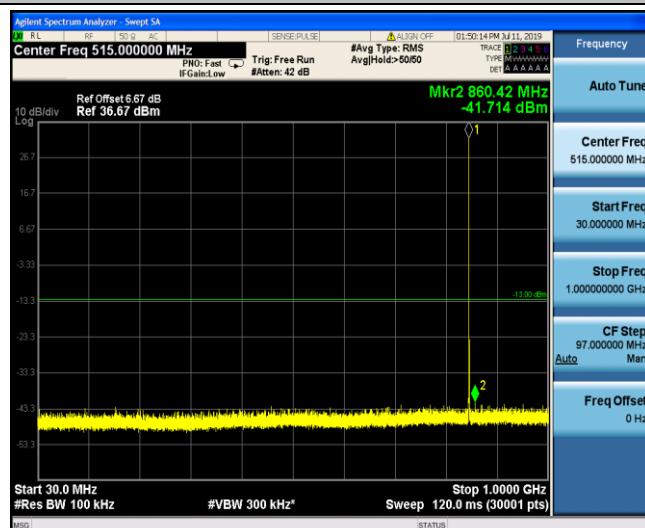
GSM850\_128



GSM850\_190



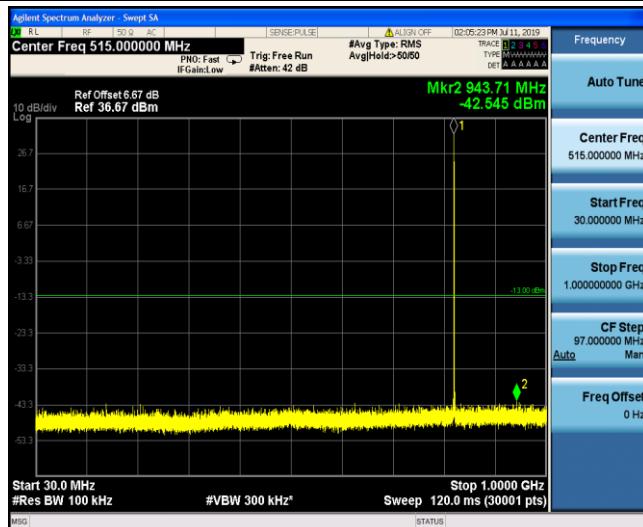
GSM850\_190



GSM850\_251



GSM850\_251



GPRS850\_128



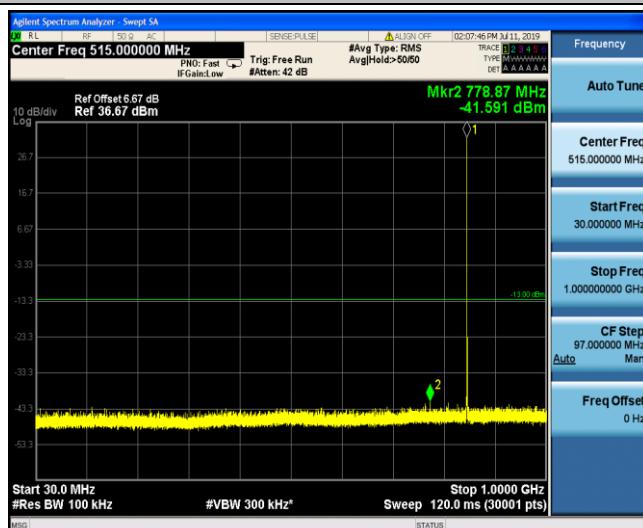
GPRS850\_128



GPRS850\_190



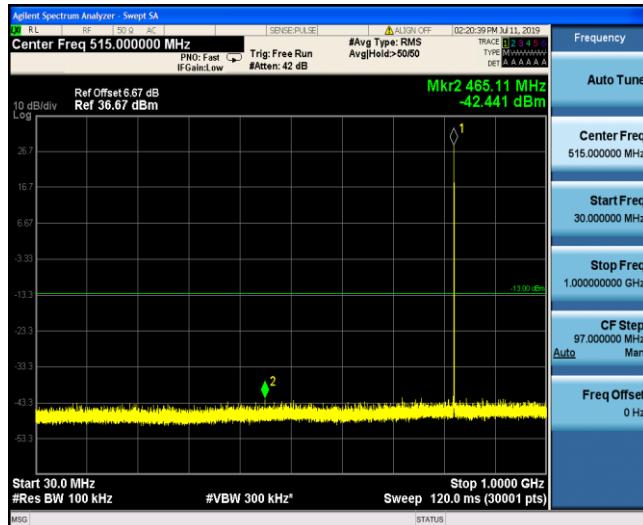
GPRS850\_190



GPRS850\_251



GPRS850\_251



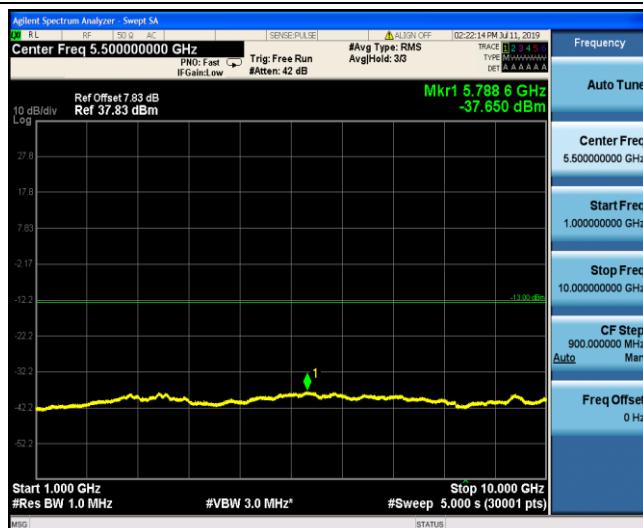
## EGPRS850\_128



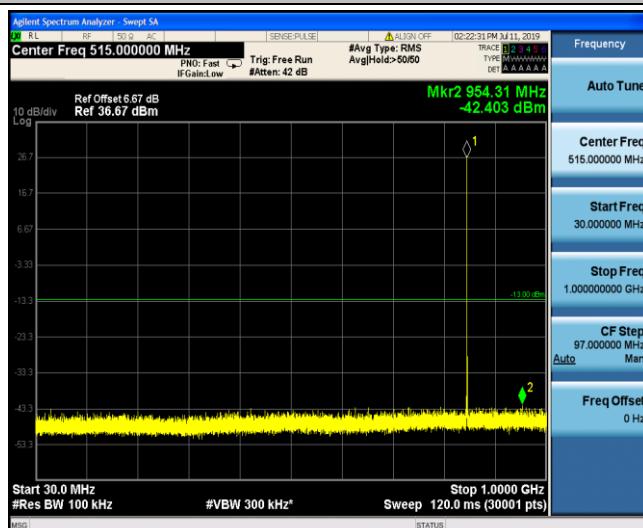
## EGPRS850\_128



## EGPRS850\_190



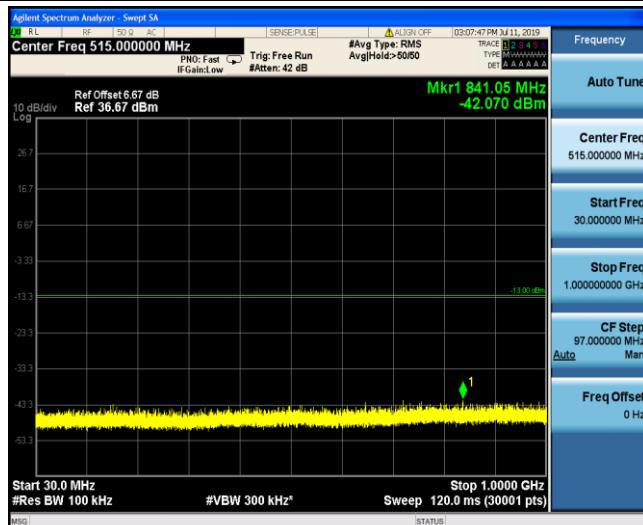
## EGPRS850\_190



## EGPRS850\_251



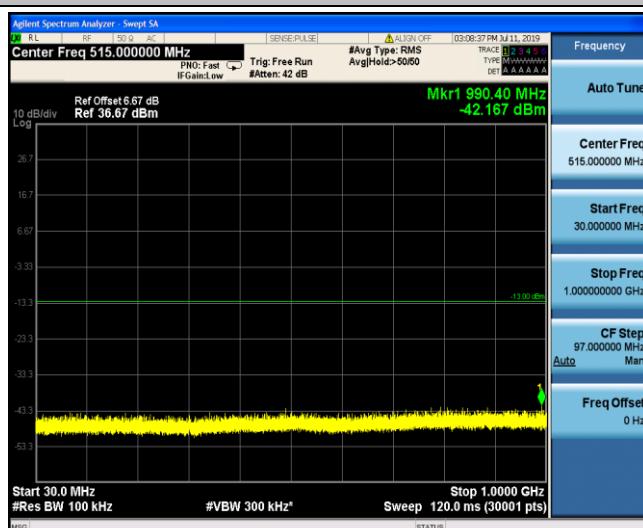
## EGPRS850\_251



GSM1900\_512



GSM1900\_512



GSM1900\_661



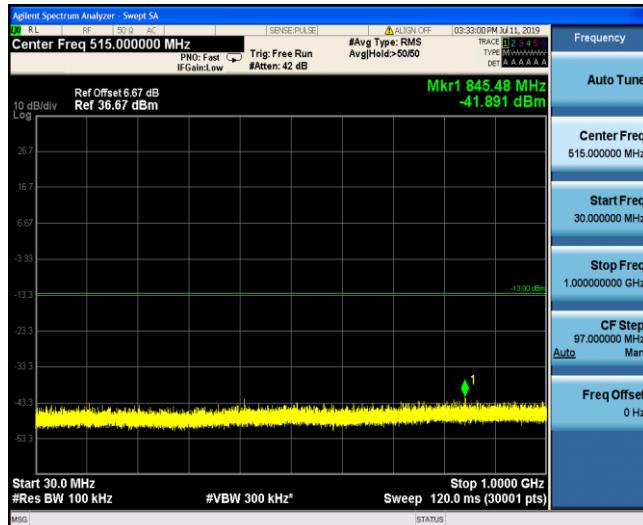
GSM1900\_661



GSM1900\_810



GSM1900\_810



GPRS1900\_512



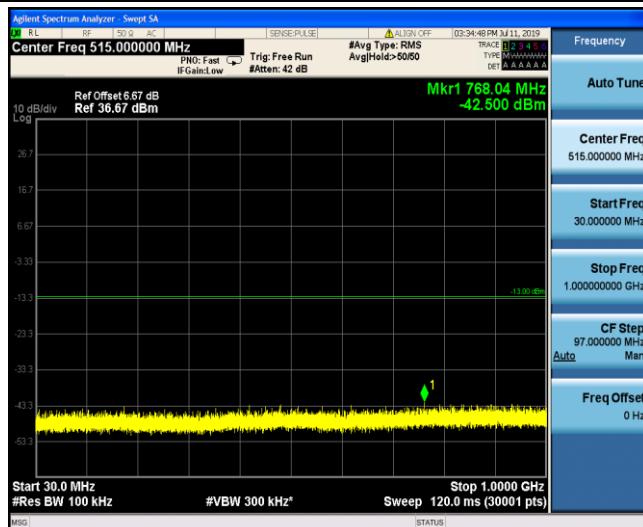
GPRS1900\_512



GPRS1900\_661



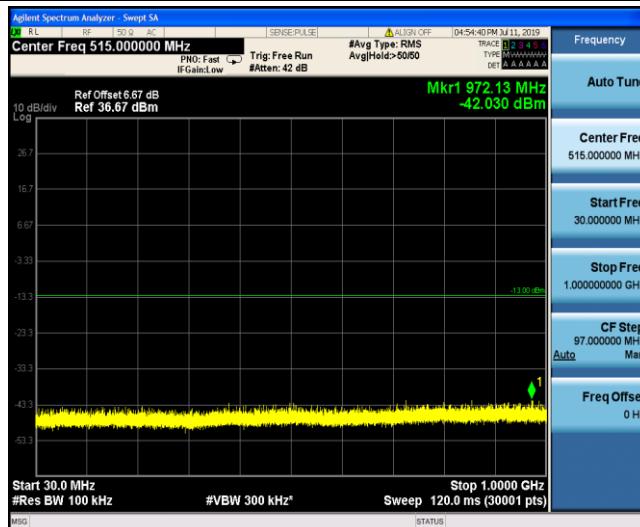
GPRS1900\_661



GPRS1900\_810



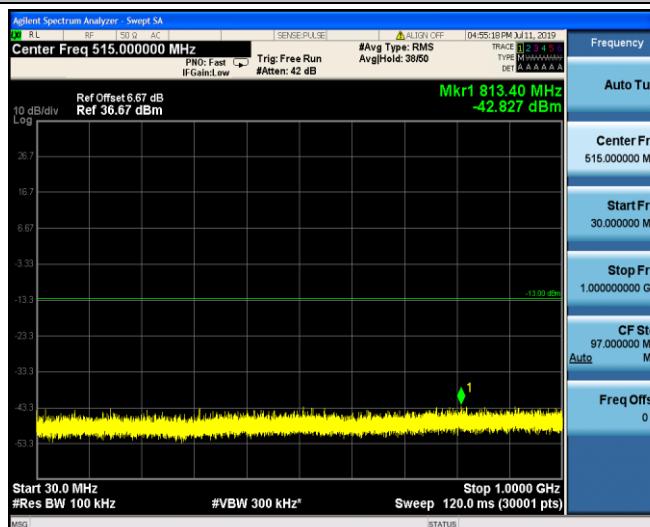
GPRS1900\_810



EGPRS1900\_512



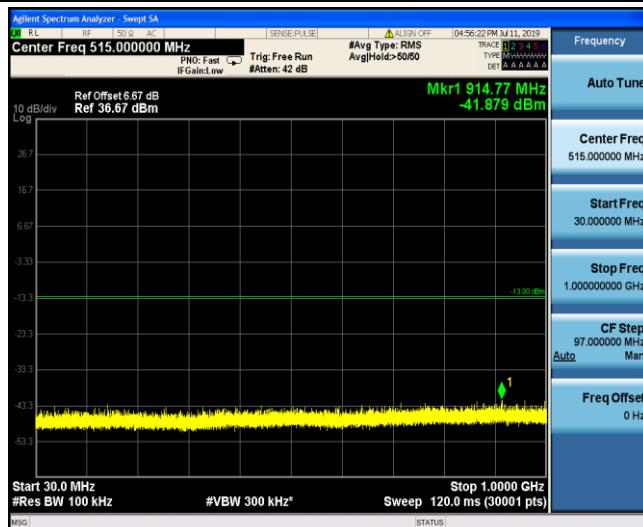
EGPRS1900\_512



EGPRS1900\_661



## EGPRS1900\_661



## EGPRS1900\_810



## EGPRS1900\_810



## 8.6 Appendix F: Frequency Stability

### Test Result

Band	Channel	Voltage						Verdict
		Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
GSM850	128	VL	TN	-3.45	-0.004191	2.5	PASS	
GSM850	128	VN	TN	-2.55	-0.003095	2.5	PASS	
GSM850	128	VH	TN	-4.33	-0.005249	2.5	PASS	
GSM850	190	VL	TN	-4.91	-0.005866	2.5	PASS	
GSM850	190	VN	TN	-3.68	-0.004399	2.5	PASS	
GSM850	190	VH	TN	-0.03	-0.000039	2.5	PASS	
GSM850	251	VL	TN	-3.00	-0.003537	2.5	PASS	
GSM850	251	VN	TN	-2.87	-0.003385	2.5	PASS	
GSM850	251	VH	TN	-0.65	-0.000761	2.5	PASS	
GPRS850	128	VL	TN	-4.42	-0.005367	2.5	PASS	
GPRS850	128	VN	TN	1.07	0.001293	2.5	PASS	
GPRS850	128	VH	TN	-4.07	-0.004936	2.5	PASS	
GPRS850	190	VL	TN	-5.59	-0.006676	2.5	PASS	
GPRS850	190	VN	TN	-5.88	-0.007024	2.5	PASS	
GPRS850	190	VH	TN	-4.71	-0.005634	2.5	PASS	
GPRS850	251	VL	TN	-5.71	-0.006733	2.5	PASS	
GPRS850	251	VN	TN	-5.00	-0.005896	2.5	PASS	
GPRS850	251	VH	TN	-3.55	-0.004184	2.5	PASS	
EGPRS850	128	VL	TN	1.03	0.001254	2.5	PASS	
EGPRS850	128	VN	TN	6.88	0.008344	2.5	PASS	
EGPRS850	128	VH	TN	7.07	0.008579	2.5	PASS	
EGPRS850	190	VL	TN	-3.36	-0.004014	2.5	PASS	
EGPRS850	190	VN	TN	3.20	0.003821	2.5	PASS	
EGPRS850	190	VH	TN	1.81	0.002161	2.5	PASS	
EGPRS850	251	VL	TN	-2.65	-0.003119	2.5	PASS	
EGPRS850	251	VN	TN	3.87	0.004564	2.5	PASS	
EGPRS850	251	VH	TN	2.03	0.002396	2.5	PASS	
GSM1900	512	VL	TN	-13.40	-0.007242	2.5	PASS	
GSM1900	512	VN	TN	-18.44	-0.009964	2.5	PASS	
GSM1900	512	VH	TN	-13.98	-0.007556	2.5	PASS	
GSM1900	661	VL	TN	-17.24	-0.009171	2.5	PASS	
GSM1900	661	VN	TN	-14.79	-0.007865	2.5	PASS	
GSM1900	661	VH	TN	-18.08	-0.009617	2.5	PASS	
GSM1900	810	VL	TN	-11.30	-0.005917	2.5	PASS	
GSM1900	810	VN	TN	-20.70	-0.010836	2.5	PASS	
GSM1900	810	VH	TN	-15.24	-0.007979	2.5	PASS	
GPRS1900	512	VL	TN	-26.73	-0.014449	2.5	PASS	
GPRS1900	512	VN	TN	-14.17	-0.007661	2.5	PASS	
GPRS1900	512	VH	TN	-5.29	-0.002862	2.5	PASS	
GPRS1900	661	VL	TN	-26.80	-0.014254	2.5	PASS	
GPRS1900	661	VN	TN	-21.24	-0.011300	2.5	PASS	
GPRS1900	661	VH	TN	-32.51	-0.017294	2.5	PASS	
GPRS1900	810	VL	TN	-23.21	-0.012155	2.5	PASS	
GPRS1900	810	VN	TN	-28.90	-0.015130	2.5	PASS	
GPRS1900	810	VH	TN	-21.60	-0.011310	2.5	PASS	
EGPRS1900	512	VL	TN	16.50	0.008917	2.5	PASS	
EGPRS1900	512	VN	TN	7.36	0.003979	2.5	PASS	
EGPRS1900	512	VH	TN	11.59	0.006265	2.5	PASS	



Report No.:

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EGPRS1900	661	VL	TN	13.08	0.006955	2.5	PASS
EGPRS1900	661	VN	TN	11.30	0.006011	2.5	PASS
EGPRS1900	661	VH	TN	14.66	0.007797	2.5	PASS
EGPRS1900	810	VL	TN	10.36	0.005427	2.5	PASS
EGPRS1900	810	VN	TN	13.40	0.007016	2.5	PASS
EGPRS1900	810	VH	TN	8.43	0.004412	2.5	PASS



Band	Channel	Voltage (Vdc)	Temperature				
			Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	-3.52	-0.004270	2.5	PASS
GSM850	128	VN	-20	-1.49	-0.001802	2.5	PASS
GSM850	128	VN	-10	-3.87	-0.004701	2.5	PASS
GSM850	128	VN	0	-9.36	-0.011360	2.5	PASS
GSM850	128	VN	10	-8.75	-0.010616	2.5	PASS
GSM850	128	VN	20	-9.07	-0.011007	2.5	PASS
GSM850	128	VN	30	-10.43	<b>-0.012653</b>	2.5	PASS
GSM850	128	VN	40	-7.94	-0.009636	2.5	PASS
GSM850	128	VN	50	-5.97	-0.007247	2.5	PASS
GSM850	190	VN	-30	-2.49	-0.002972	2.5	PASS
GSM850	190	VN	-20	-1.58	-0.001891	2.5	PASS
GSM850	190	VN	-10	-0.97	-0.001158	2.5	PASS
GSM850	190	VN	0	-10.17	-0.012156	2.5	PASS
GSM850	190	VN	10	-7.81	-0.009339	2.5	PASS
GSM850	190	VN	20	-9.62	-0.011500	2.5	PASS
GSM850	190	VN	30	-6.01	-0.007178	2.5	PASS
GSM850	190	VN	40	-7.30	-0.008722	2.5	PASS
GSM850	190	VN	50	-6.49	-0.007757	2.5	PASS
GSM850	251	VN	-30	-1.81	-0.002130	2.5	PASS
GSM850	251	VN	-20	-1.26	-0.001483	2.5	PASS
GSM850	251	VN	-10	-4.13	-0.004869	2.5	PASS
GSM850	251	VN	0	-6.26	-0.007379	2.5	PASS
GSM850	251	VN	10	-4.94	-0.005820	2.5	PASS
GSM850	251	VN	20	-3.07	-0.003614	2.5	PASS
GSM850	251	VN	30	-7.68	-0.009053	2.5	PASS
GSM850	251	VN	40	-6.36	-0.007493	2.5	PASS
GSM850	251	VN	50	-6.01	-0.007075	2.5	PASS
GPRS850	128	VN	-30	-1.45	-0.001763	2.5	PASS
GPRS850	128	VN	-20	-6.30	-0.007639	2.5	PASS
GPRS850	128	VN	-10	0.55	0.000666	2.5	PASS
GPRS850	128	VN	0	-1.55	-0.001880	2.5	PASS
GPRS850	128	VN	10	0.13	0.000157	2.5	PASS
GPRS850	128	VN	20	-2.62	-0.003173	2.5	PASS
GPRS850	128	VN	30	1.36	0.001645	2.5	PASS
GPRS850	128	VN	40	-6.36	-0.007717	2.5	PASS
GPRS850	128	VN	50	-3.45	-0.004191	2.5	PASS
GPRS850	190	VN	-30	-6.88	-0.008220	2.5	PASS
GPRS850	190	VN	-20	-7.85	-0.009378	2.5	PASS
GPRS850	190	VN	-10	-5.07	-0.006059	2.5	PASS
GPRS850	190	VN	0	-4.33	-0.005171	2.5	PASS
GPRS850	190	VN	10	-3.84	-0.004592	2.5	PASS
GPRS850	190	VN	20	-5.17	-0.006175	2.5	PASS
GPRS850	190	VN	30	-4.55	-0.005441	2.5	PASS
GPRS850	190	VN	40	-5.13	-0.006136	2.5	PASS
GPRS850	190	VN	50	-5.94	-0.007101	2.5	PASS
GPRS850	251	VN	-30	-4.20	-0.004945	2.5	PASS
GPRS850	251	VN	-20	-4.36	-0.005135	2.5	PASS
GPRS850	251	VN	-10	0.74	0.000875	2.5	PASS
GPRS850	251	VN	0	-7.33	-0.008634	2.5	PASS
GPRS850	251	VN	10	-4.55	-0.005363	2.5	PASS
GPRS850	251	VN	20	-8.20	<b>-0.009661</b>	2.5	PASS



GPRS850	251	VN	30	-4.52	-0.005325	2.5	PASS
GPRS850	251	VN	40	-5.04	-0.005934	2.5	PASS
GPRS850	251	VN	50	-5.88	-0.006923	2.5	PASS
EGPRS850	128	VN	-30	3.16	0.003839	2.5	PASS
EGPRS850	128	VN	-20	2.23	0.002703	2.5	PASS
EGPRS850	128	VN	-10	1.45	0.001763	2.5	PASS
EGPRS850	128	VN	0	2.42	0.002938	2.5	PASS
EGPRS850	128	VN	10	9.17	0.011125	2.5	PASS
EGPRS850	128	VN	20	6.88	0.008344	2.5	PASS
EGPRS850	128	VN	30	3.65	0.004426	2.5	PASS
EGPRS850	128	VN	40	5.10	0.006189	2.5	PASS
EGPRS850	128	VN	50	1.78	0.002154	2.5	PASS
EGPRS850	190	VN	-30	3.16	0.003782	2.5	PASS
EGPRS850	190	VN	-20	4.04	0.004824	2.5	PASS
EGPRS850	190	VN	-10	6.17	0.007371	2.5	PASS
EGPRS850	190	VN	0	4.55	0.005441	2.5	PASS
EGPRS850	190	VN	10	3.87	0.004631	2.5	PASS
EGPRS850	190	VN	20	2.32	0.002779	2.5	PASS
EGPRS850	190	VN	30	3.23	0.003859	2.5	PASS
EGPRS850	190	VN	40	2.58	0.003087	2.5	PASS
EGPRS850	190	VN	50	3.87	0.004631	2.5	PASS
EGPRS850	251	VN	-30	-0.55	-0.000647	2.5	PASS
EGPRS850	251	VN	-20	2.00	0.002358	2.5	PASS
EGPRS850	251	VN	-10	2.39	0.002815	2.5	PASS
EGPRS850	251	VN	0	4.00	0.004717	2.5	PASS
EGPRS850	251	VN	10	3.33	0.003918	2.5	PASS
EGPRS850	251	VN	20	2.03	0.002396	2.5	PASS
EGPRS850	251	VN	30	3.84	0.004526	2.5	PASS
EGPRS850	251	VN	40	6.30	0.007417	2.5	PASS
EGPRS850	251	VN	50	0.23	0.000266	2.5	PASS
GSM1900	512	VN	-30	-9.49	-0.005130	2.5	PASS
GSM1900	512	VN	-20	-13.75	-0.007434	2.5	PASS
GSM1900	512	VN	-10	-16.24	-0.008777	2.5	PASS
GSM1900	512	VN	0	-30.03	-0.016228	2.5	PASS
GSM1900	512	VN	10	-32.00	-0.017293	2.5	PASS
GSM1900	512	VN	20	-21.76	-0.011761	2.5	PASS
GSM1900	512	VN	30	-29.22	-0.015792	2.5	PASS
GSM1900	512	VN	40	-30.48	-0.016473	2.5	PASS
GSM1900	512	VN	50	-21.66	-0.011709	2.5	PASS
GSM1900	661	VN	-30	-14.92	-0.007934	2.5	PASS
GSM1900	661	VN	-20	-16.72	-0.008896	2.5	PASS
GSM1900	661	VN	-10	-14.11	-0.007505	2.5	PASS
GSM1900	661	VN	0	-29.64	-0.015765	2.5	PASS
GSM1900	661	VN	10	-26.31	-0.013996	2.5	PASS
GSM1900	661	VN	20	-33.03	-0.017568	2.5	PASS
GSM1900	661	VN	30	-29.80	-0.015851	2.5	PASS
GSM1900	661	VN	40	-33.38	0.017757	2.5	PASS
GSM1900	661	VN	50	-30.61	-0.016280	2.5	PASS
GSM1900	810	VN	-30	-13.85	-0.007252	2.5	PASS
GSM1900	810	VN	-20	-20.47	-0.010718	2.5	PASS
GSM1900	810	VN	-10	-23.96	-0.012544	2.5	PASS
GSM1900	810	VN	0	-28.99	-0.015181	2.5	PASS
GSM1900	810	VN	10	-18.47	-0.009670	2.5	PASS
GSM1900	810	VN	20	-27.73	-0.014522	2.5	PASS
GSM1900	810	VN	30	-30.41	-0.015925	2.5	PASS



GSM1900	810	VN	40	-22.60	-0.011834	2.5	PASS
GSM1900	810	VN	50	-25.44	-0.013321	2.5	PASS
GPRS1900	512	VN	-30	-12.11	-0.006544	2.5	PASS
GPRS1900	512	VN	-20	-1.19	-0.000646	2.5	PASS
GPRS1900	512	VN	-10	-11.07	-0.005985	2.5	PASS
GPRS1900	512	VN	0	4.04	0.002181	2.5	PASS
GPRS1900	512	VN	10	1.03	0.000558	2.5	PASS
GPRS1900	512	VN	20	7.07	0.003822	2.5	PASS
GPRS1900	512	VN	30	15.14	0.008184	2.5	PASS
GPRS1900	512	VN	40	9.62	0.005200	2.5	PASS
GPRS1900	512	VN	50	5.36	0.002897	2.5	PASS
GPRS1900	661	VN	-30	-24.60	-0.013086	2.5	PASS
GPRS1900	661	VN	-20	-3.91	-0.002078	2.5	PASS
GPRS1900	661	VN	-10	-18.95	-0.010081	2.5	PASS
GPRS1900	661	VN	0	-30.15	-0.016040	2.5	PASS
GPRS1900	661	VN	10	-18.76	-0.009978	2.5	PASS
GPRS1900	661	VN	20	-0.03	-0.000017	2.5	PASS
GPRS1900	661	VN	30	-15.66	-0.008329	2.5	PASS
GPRS1900	661	VN	40	-20.53	-0.010922	2.5	PASS
GPRS1900	661	VN	50	-22.63	-0.012039	2.5	PASS
GPRS1900	810	VN	-30	-20.18	-0.010566	2.5	PASS
GPRS1900	810	VN	-20	-10.75	-0.005629	2.5	PASS
GPRS1900	810	VN	-10	-16.92	-0.008858	2.5	PASS
GPRS1900	810	VN	0	-14.04	-0.007354	2.5	PASS
GPRS1900	810	VN	10	1.26	0.000659	2.5	PASS
GPRS1900	810	VN	20	-6.88	-0.003601	2.5	PASS
GPRS1900	810	VN	30	-17.40	-0.009112	2.5	PASS
GPRS1900	810	VN	40	-5.68	-0.002975	2.5	PASS
GPRS1900	810	VN	50	-26.41	-0.013829	2.5	PASS
EGPRS1900	512	VN	-30	14.79	0.007992	2.5	PASS
EGPRS1900	512	VN	-20	14.92	0.008062	2.5	PASS
EGPRS1900	512	VN	-10	14.24	0.007695	2.5	PASS
EGPRS1900	512	VN	0	15.76	0.008516	2.5	PASS
EGPRS1900	512	VN	10	12.11	0.006544	2.5	PASS
EGPRS1900	512	VN	20	19.76	0.010679	2.5	PASS
EGPRS1900	512	VN	30	21.73	0.011744	2.5	PASS
EGPRS1900	512	VN	40	19.27	0.010418	2.5	PASS
EGPRS1900	512	VN	50	20.15	0.010889	2.5	PASS
EGPRS1900	661	VN	-30	20.40	0.010854	2.5	PASS
EGPRS1900	661	VN	-20	14.14	0.007522	2.5	PASS
EGPRS1900	661	VN	-10	5.10	0.002713	2.5	PASS
EGPRS1900	661	VN	0	15.14	0.008054	2.5	PASS
EGPRS1900	661	VN	10	11.72	0.006234	2.5	PASS
EGPRS1900	661	VN	20	20.76	0.011042	2.5	PASS
EGPRS1900	661	VN	30	18.31	0.009737	2.5	PASS
EGPRS1900	661	VN	40	18.95	0.010081	2.5	PASS
EGPRS1900	661	VN	50	15.72	0.008363	2.5	PASS
EGPRS1900	810	VN	-30	6.91	0.003618	2.5	PASS
EGPRS1900	810	VN	-20	10.01	0.005241	2.5	PASS
EGPRS1900	810	VN	-10	0.32	0.000169	2.5	PASS
EGPRS1900	810	VN	0	9.75	0.005105	2.5	PASS
EGPRS1900	810	VN	10	16.63	0.008706	2.5	PASS
EGPRS1900	810	VN	20	21.37	0.011191	2.5	PASS
EGPRS1900	810	VN	30	22.50	0.011783	2.5	PASS
EGPRS1900	810	VN	40	20.21	0.010583	2.5	PASS



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EGPRS1900	810	VN	50	17.50	0.009163	2.5	PASS
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-----End of the Report -----