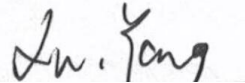


APPENDIX REPORT

Project No.	SHT2401001704W	Radio Specification	GSM
Test sample No.	YPHT24010017003_05	Model No.	Power K Pro
Start test date	2024-01-16	Finish date	2024-01-16
Temperature	24.5℃	Humidity	46%
Test Engineer	Xiaodong Zhao	Auditor	

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
G	ERP and EIRP	PASS

Appendix A: Conducted Output Power

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
GSM850	128	30.72	38.45	PASS
GSM850	190	30.95	38.45	PASS
GSM850	251	31.18	38.45	PASS
GSM1900	512	30.04	33.00	PASS
GSM1900	661	30.02	33.00	PASS
GSM1900	810	29.80	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	30.67	38.45	PASS
GPRS850	128	2	28.59	38.45	PASS
GPRS850	128	3	26.72	38.45	PASS
GPRS850	128	4	24.75	38.45	PASS
GPRS850	190	1	30.88	38.45	PASS
GPRS850	190	2	28.78	38.45	PASS
GPRS850	190	3	26.97	38.45	PASS
GPRS850	190	4	24.94	38.45	PASS
GPRS850	251	1	31.08	38.45	PASS
GPRS850	251	2	28.89	38.45	PASS
GPRS850	251	3	27.09	38.45	PASS
GPRS850	251	4	25.08	38.45	PASS
GPRS1900	512	1	30.13	33.00	PASS
GPRS1900	512	2	27.50	33.00	PASS
GPRS1900	512	3	25.96	33.00	PASS
GPRS1900	512	4	23.90	33.00	PASS
GPRS1900	661	1	30.09	33.00	PASS
GPRS1900	661	2	27.51	33.00	PASS
GPRS1900	661	3	25.96	33.00	PASS
GPRS1900	661	4	23.90	33.00	PASS
GPRS1900	810	1	29.87	33.00	PASS
GPRS1900	810	2	27.45	33.00	PASS
GPRS1900	810	3	25.91	33.00	PASS
GPRS1900	810	4	23.83	33.00	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

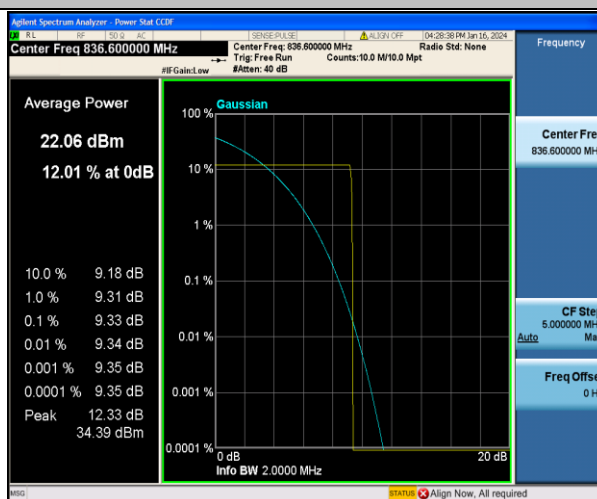
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.59	13	PASS
GSM850	190	9.33	13	PASS
GSM850	251	9.46	13	PASS
GPRS850	128	9.62	13	PASS
GPRS850	190	9.75	13	PASS
GPRS850	251	9.77	13	PASS
GSM1900	512	9.70	13	PASS
GSM1900	661	9.40	13	PASS
GSM1900	810	9.52	13	PASS
GPRS1900	512	9.75	13	PASS
GPRS1900	661	9.67	13	PASS
GPRS1900	810	9.60	13	PASS

Test Graphs



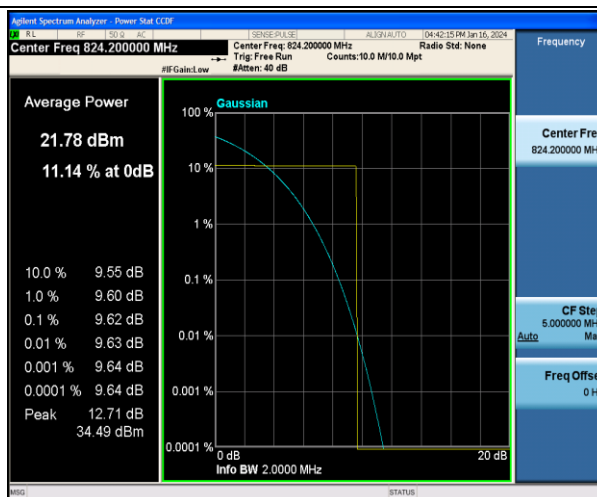
GSM850-128-5-PASS



GSM850-190-5-PASS



GSM850-251-5-PASS



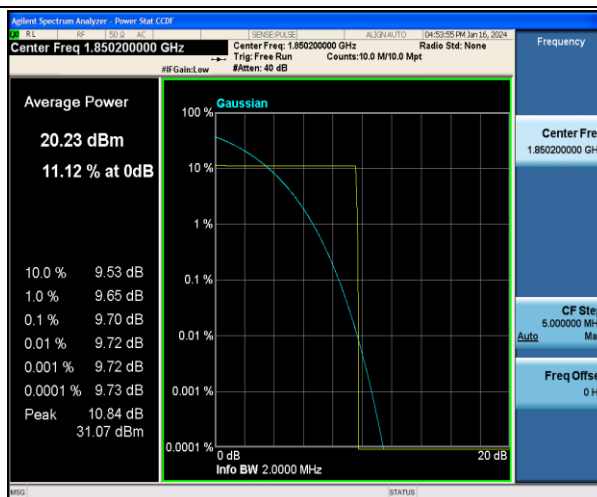
GPRS850-128-5-PASS



GPRS850-190-5-PASS



GPRS850-251-5-PASS



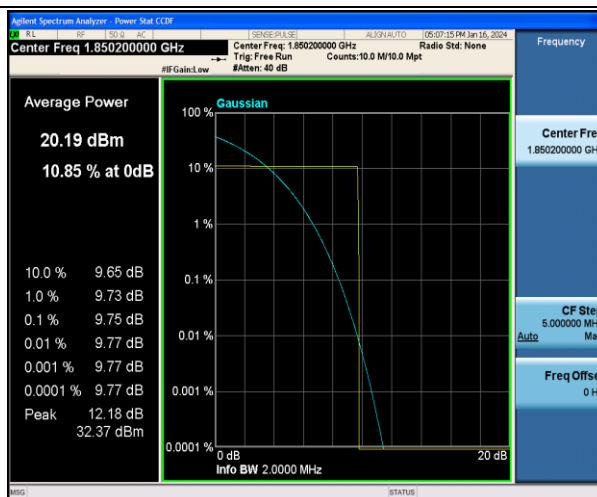
GSM1900-512-0-PASS



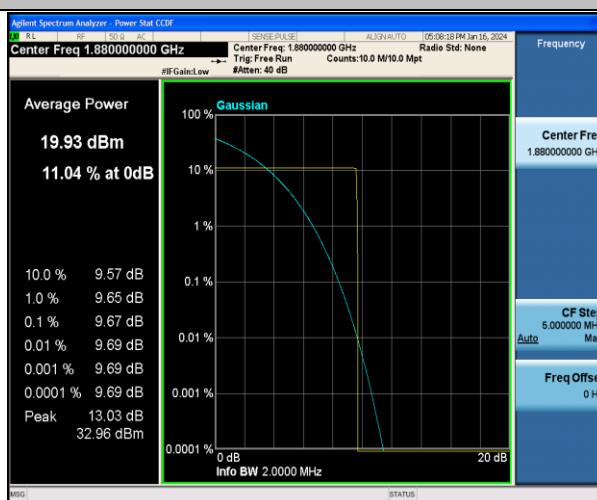
GSM1900-661-0-PASS



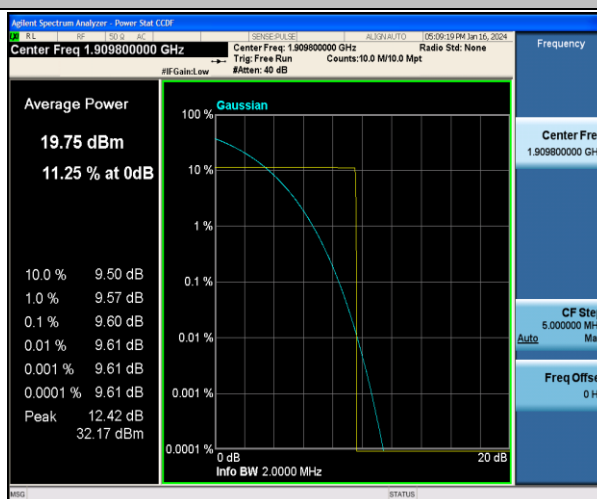
GSM1900-810-0-PASS



GPRS1900-512-0-PASS



GPRS1900-661-0-PASS



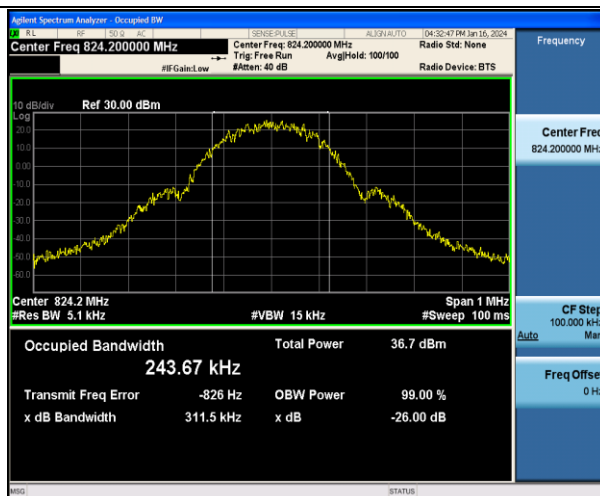
GPRS1900-810-0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

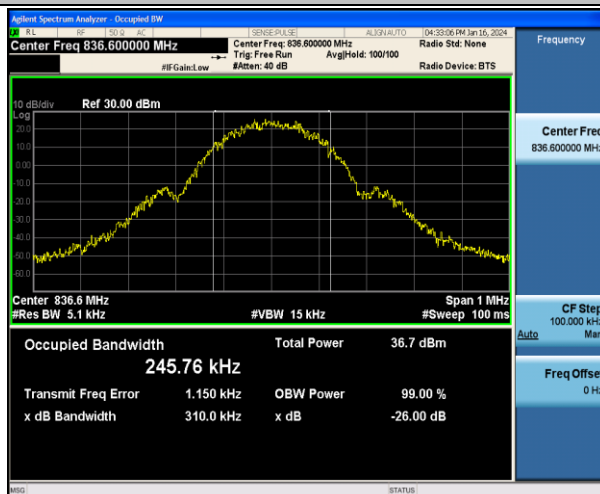
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24367	0.3115	---	PASS
GSM850	190	0.24576	0.3100	---	PASS
GSM850	251	0.24549	0.3139	---	PASS
GPRS850	128	0.24356	0.3118	---	PASS
GPRS850	190	0.24215	0.3133	---	PASS
GPRS850	251	0.24275	0.3153	---	PASS
GSM1900	512	0.24454	0.3152	---	PASS
GSM1900	661	0.24451	0.3125	---	PASS
GSM1900	810	0.24973	0.3161	---	PASS
GPRS1900	512	0.24384	0.3117	---	PASS
GPRS1900	661	0.24526	0.3114	---	PASS
GPRS1900	810	0.24411	0.3195	---	PASS

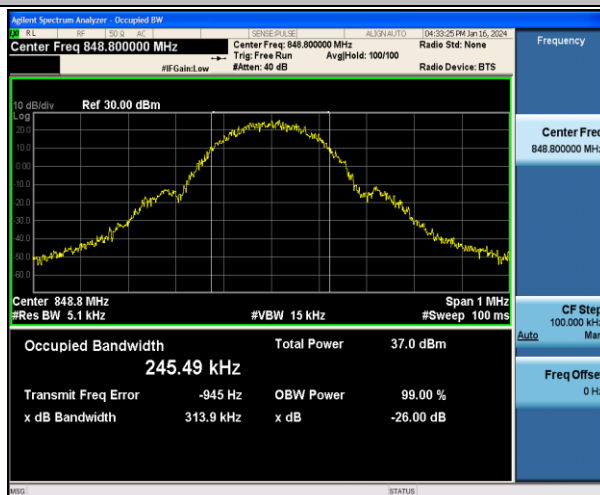
Test Graphs



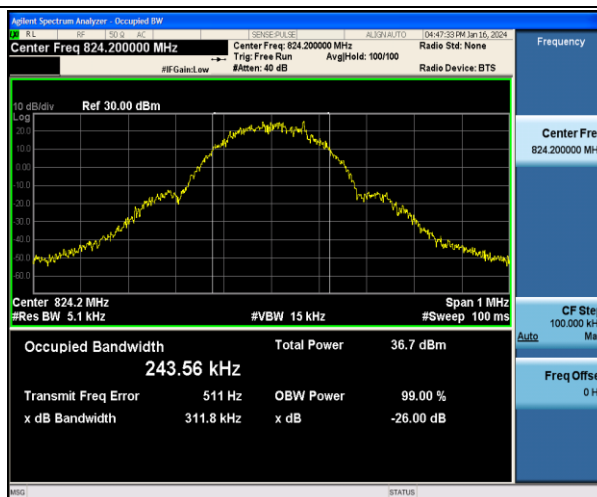
GSM850-128-5-PASS



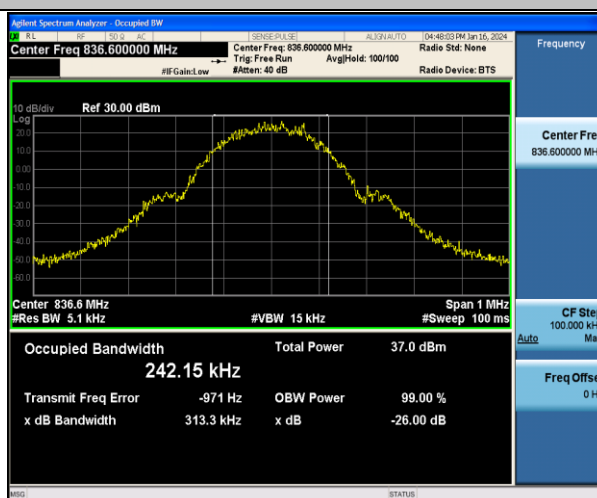
GSM850-190-5-PASS



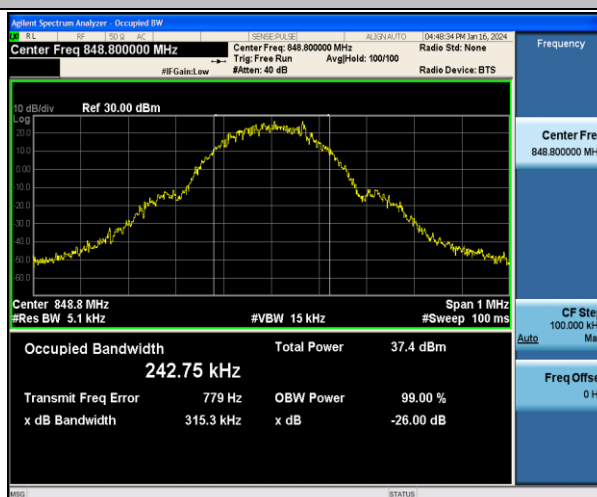
GSM850-251-5-PASS



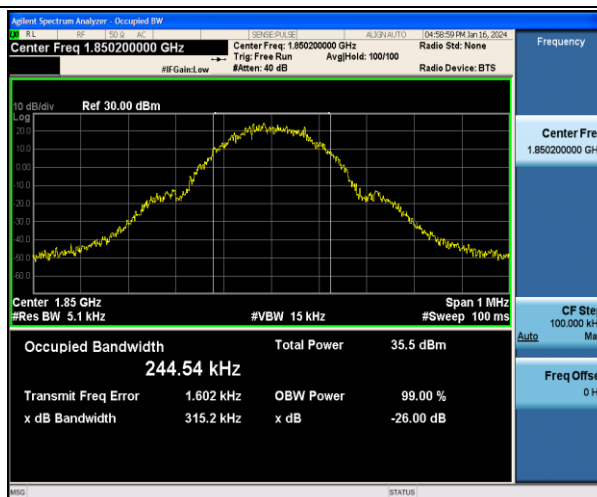
GPRS850-128-5-PASS



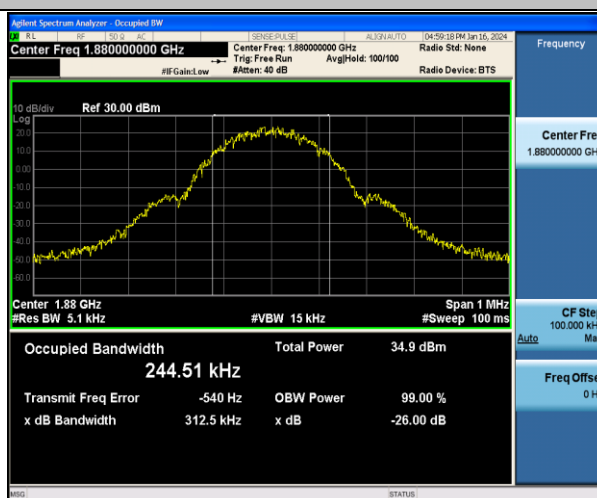
GPRS850-190-5-PASS



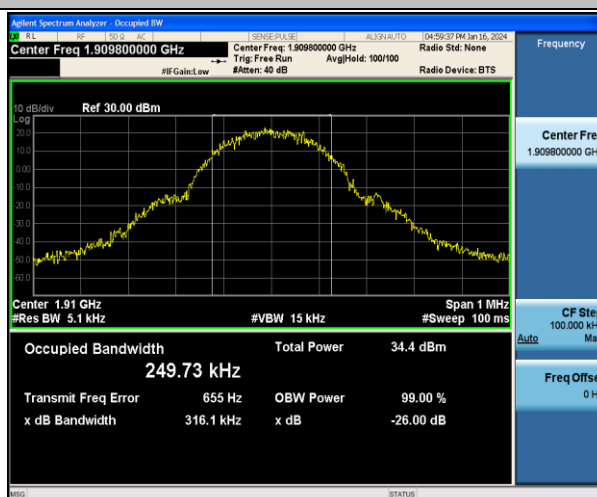
GPRS850-251-5-PASS



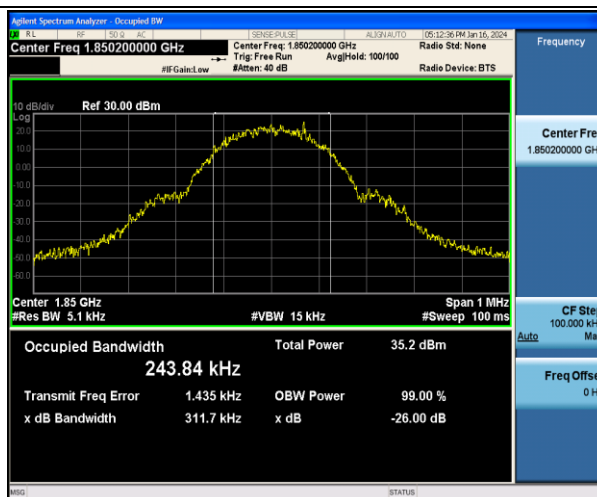
GSM1900-512-0-PASS



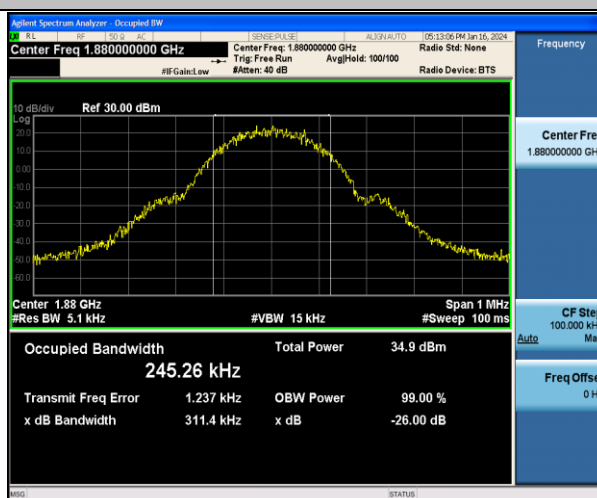
GSM1900-661-0-PASS



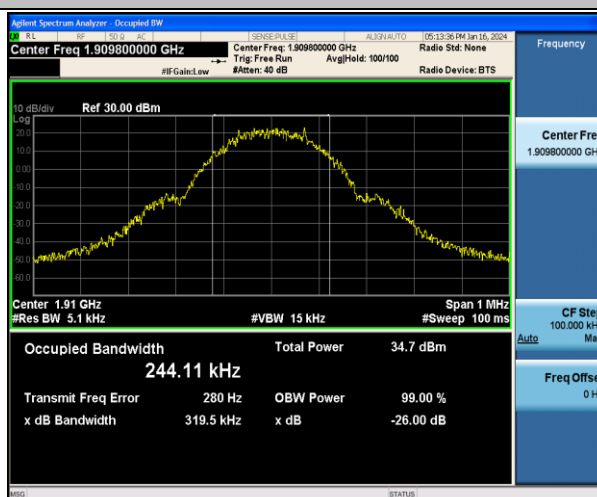
GSM1900-810-0-PASS



GPRS1900-512-0-PASS



GPRS1900-661-0-PASS



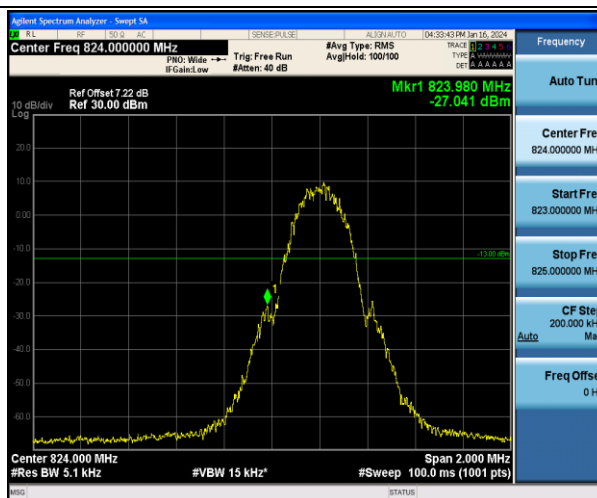
GPRS1900-810-0-PASS

Appendix D: Band Edge

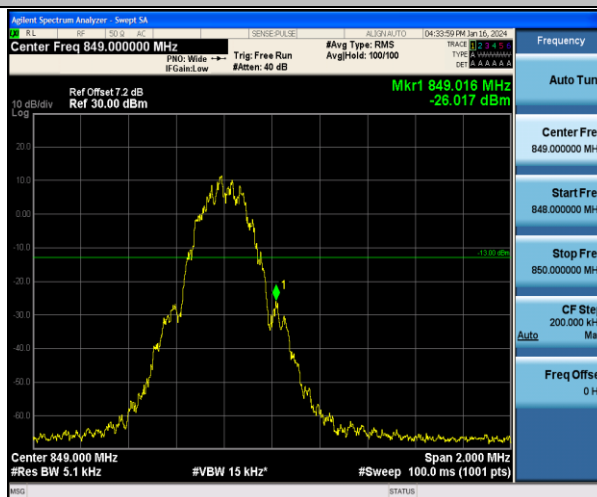
Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.98	-27.04	-13	PASS
GSM850	251	849.02	-26.02	-13	PASS
GPRS850	128	823.99	-25.80	-13	PASS
GPRS850	251	849.02	-26.65	-13	PASS
GSM1900	512	1849.98	-27.15	-13	PASS
GSM1900	810	1910.02	-26.52	-13	PASS
GPRS1900	512	1849.98	-26.70	-13	PASS
GPRS1900	810	1910.02	-28.74	-13	PASS

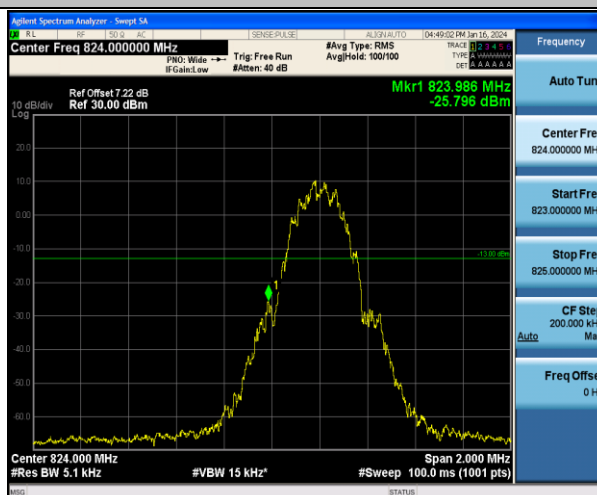
Test Graphs



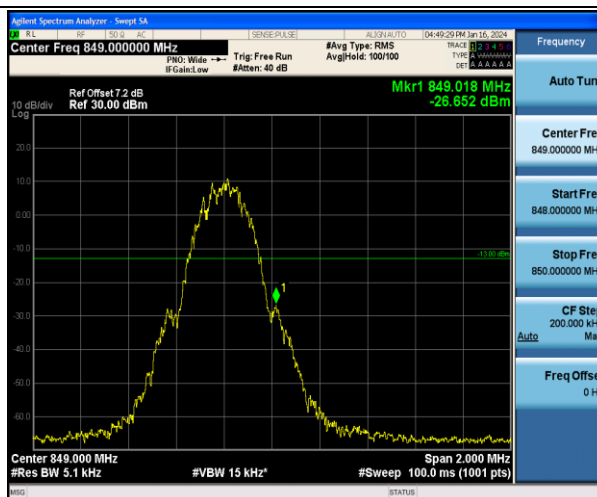
GSM850-128-5-PASS



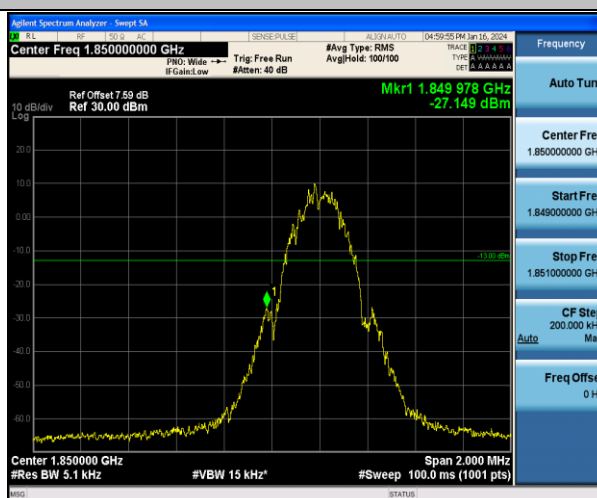
GSM850-251-5-PASS



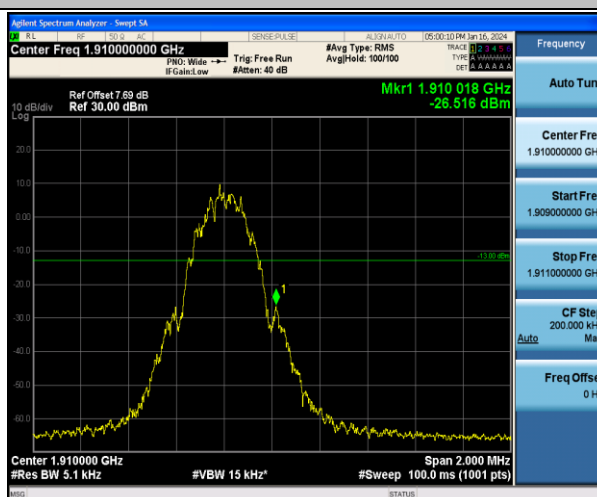
GPRS850-128-5-PASS



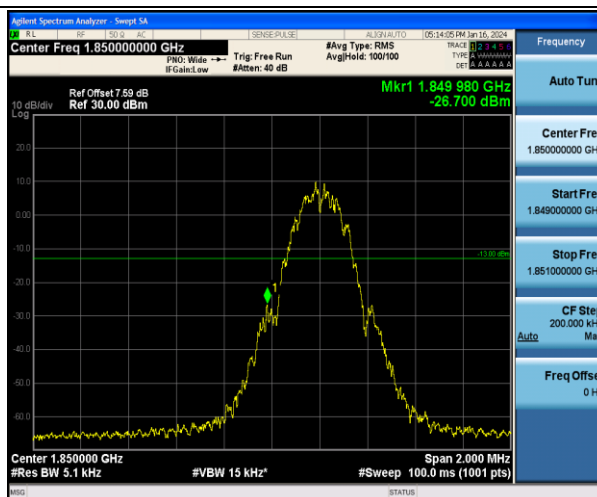
GPRS850-251-5-PASS



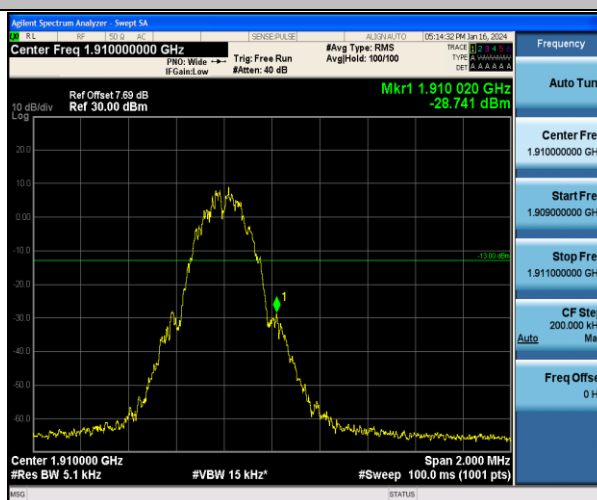
GSM1900-512-0-PASS



GSM1900-810-0-PASS



GPRS1900-512-0-PASS



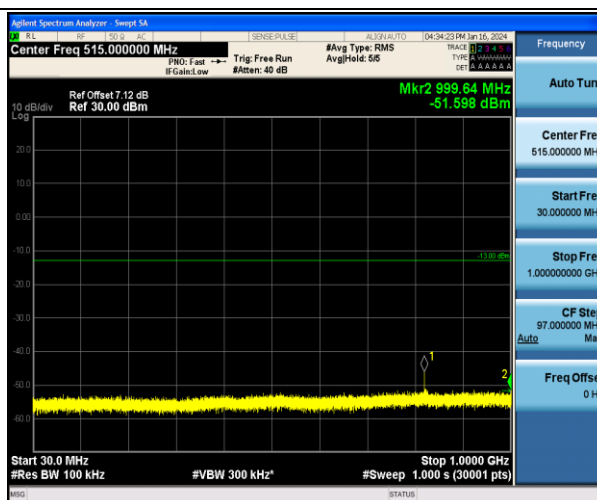
GPRS1900-810-0-PASS

Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~1000MHz	999.64	-51.6	-13	PASS
GSM850	128	1000~10000MHz	5754.7	-40.01	-13	PASS
GSM850	190	30~1000MHz	992.3	-51.61	-13	PASS
GSM850	190	1000~10000MHz	5760.7	-39.9	-13	PASS
GSM850	251	30~1000MHz	950.92	-51.49	-13	PASS
GSM850	251	1000~10000MHz	5768.5	-40.07	-13	PASS
GPRS850	128	30~1000MHz	989.14	-51.06	-13	PASS
GPRS850	128	1000~10000MHz	5821.3	-40.13	-13	PASS
GPRS850	190	30~1000MHz	939.12	-51.66	-13	PASS
GPRS850	190	1000~10000MHz	5761.3	-40.2	-13	PASS
GPRS850	251	30~1000MHz	705.48	-51.67	-13	PASS
GPRS850	251	1000~10000MHz	5776.9	-40.16	-13	PASS
GSM1900	512	30~1000MHz	806.42	-43.34	-13	PASS
GSM1900	512	1000~20000MHz	18946.77	-33.52	-13	PASS
GSM1900	661	30~1000MHz	946.39	-43.4	-13	PASS
GSM1900	661	1000~20000MHz	16462.2	-33.8	-13	PASS
GSM1900	810	30~1000MHz	795.62	-43.36	-13	PASS
GSM1900	810	1000~20000MHz	16443.2	-33.75	-13	PASS
GPRS1900	512	30~1000MHz	946.39	-43.19	-13	PASS
GPRS1900	512	1000~20000MHz	18911.3	-33.81	-13	PASS
GPRS1900	661	30~1000MHz	907.07	-43.48	-13	PASS
GPRS1900	661	1000~20000MHz	18925.23	-33.72	-13	PASS
GPRS1900	810	30~1000MHz	900.93	-43.16	-13	PASS
GPRS1900	810	1000~20000MHz	18968.93	-33.83	-13	PASS

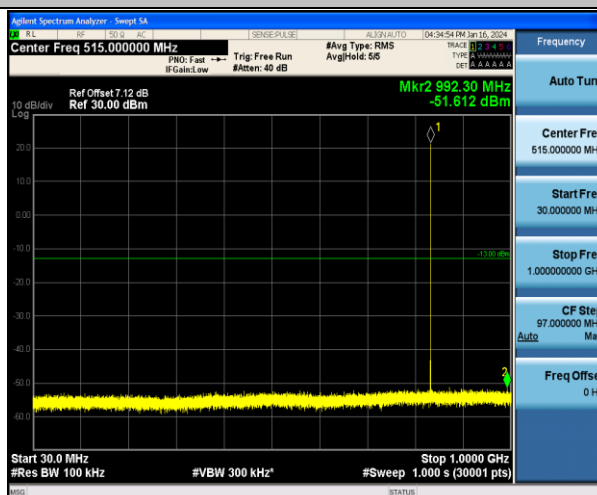
Test Graphs



GSM850-128-5-30~1000MHz-PASS



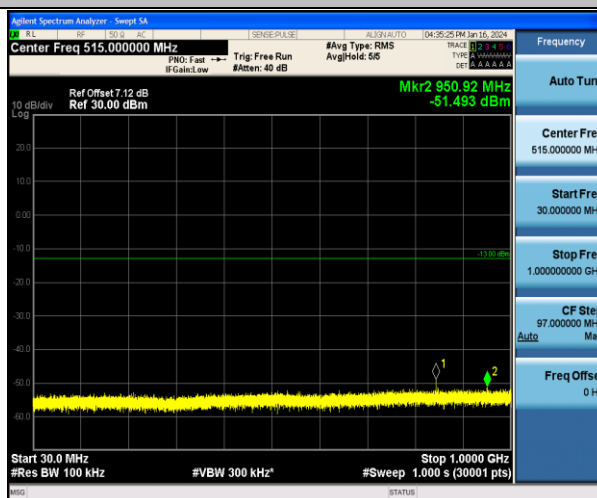
GSM850-128-5-1000~10000MHz-PASS



GSM850-190-5-30~1000MHz-PASS



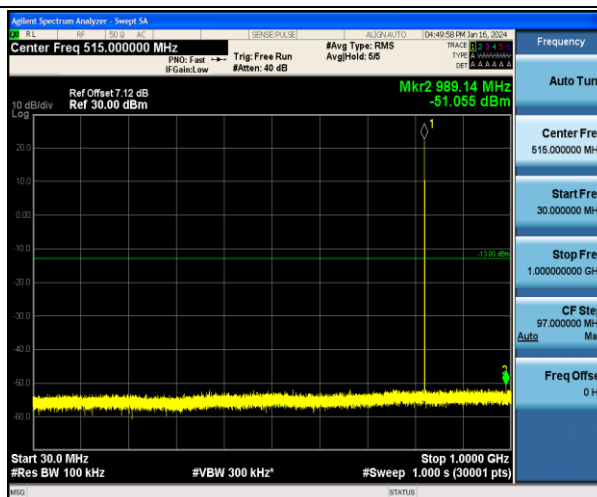
GSM850-190-5-1000~10000MHz-PASS



GSM850-251-5-30~1000MHz-PASS



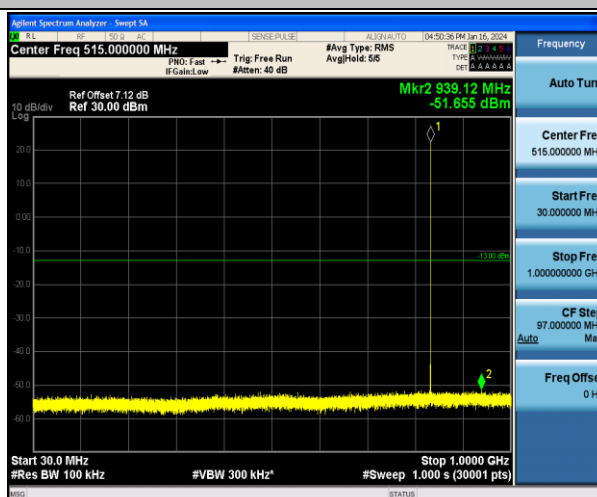
GSM850-251-5-1000~10000MHz-PASS



GPRS850-128-5-30~1000MHz-PASS



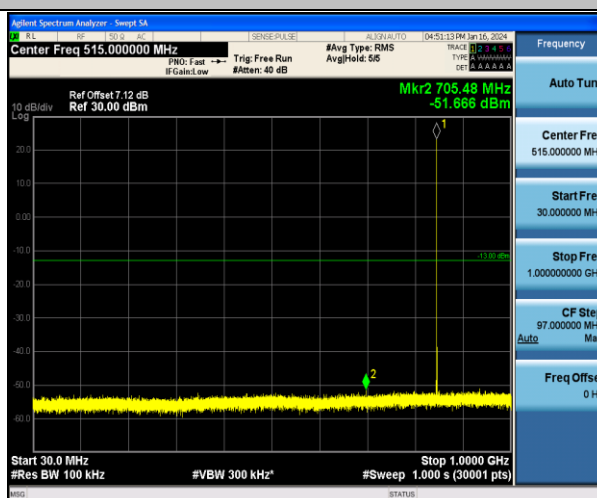
GPRS850-128-5-1000~10000MHz-PASS



GPRS850-190-5-30~1000MHz-PASS



GPRS850-190-5-1000~10000MHz-PASS



GPRS850-251-5-30~1000MHz-PASS



GPRS850-251-5-1000~10000MHz-PASS



GSM1900-512-0-30~1000MHz-PASS



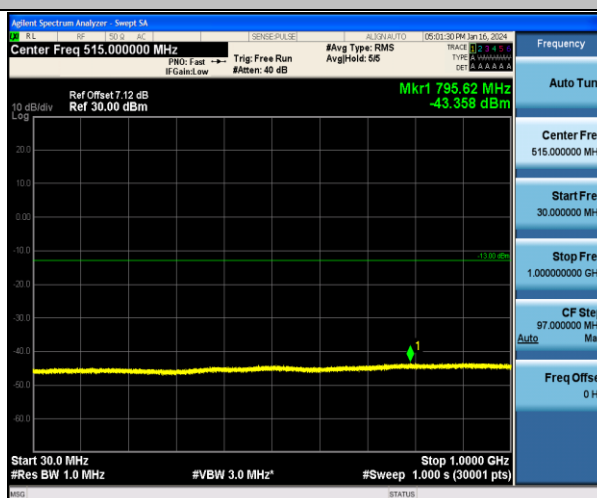
GSM1900-512-0-1000~20000MHz-PASS



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



GSM1900-661-0-1000~20000MHz-PASS



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



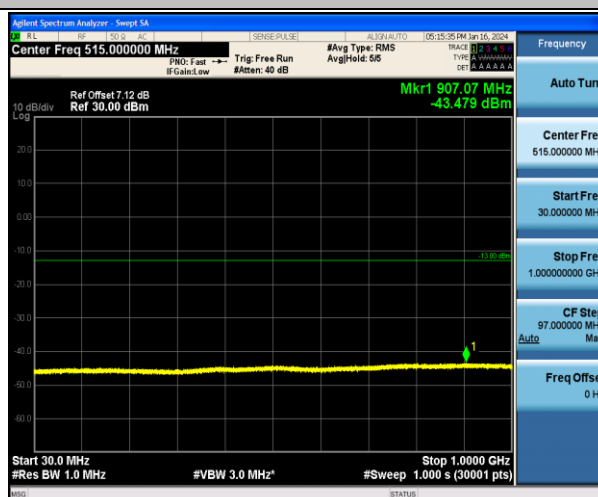
GSM1900-810-0-1000~20000MHz-PASS



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



GPRS1900-512-0-1000~20000MHz-PASS



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



GPRS1900-661-0-1000~20000MHz-PASS



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



GPRS1900-810-0-1000~20000MHz-PASS

Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	3.33	0.004040	±2.5	PASS
GSM850	128	VL	NT	7.52	0.009124	±2.5	PASS
GSM850	128	VH	NT	5.20	0.006309	±2.5	PASS
GSM850	190	VN	NT	5.84	0.006981	±2.5	PASS
GSM850	190	VL	NT	6.39	0.007638	±2.5	PASS
GSM850	190	VH	NT	12.20	0.014583	±2.5	PASS
GSM850	251	VN	NT	8.27	0.009743	±2.5	PASS
GSM850	251	VL	NT	5.46	0.006433	±2.5	PASS
GSM850	251	VH	NT	5.29	0.006232	±2.5	PASS
GPRS850	128	VN	NT	4.36	0.005290	±2.5	PASS
GPRS850	128	VL	NT	1.36	0.001650	±2.5	PASS
GPRS850	128	VH	NT	0.68	0.000825	±2.5	PASS
GPRS850	190	VN	NT	7.33	0.008762	±2.5	PASS
GPRS850	190	VL	NT	1.39	0.001661	±2.5	PASS
GPRS850	190	VH	NT	-0.45	-0.000538	±2.5	PASS
GPRS850	251	VN	NT	4.26	0.005019	±2.5	PASS
GPRS850	251	VL	NT	7.26	0.008553	±2.5	PASS
GPRS850	251	VH	NT	2.91	0.003428	±2.5	PASS
GSM1900	512	VN	NT	3.20	0.001730	±2.5	PASS
GSM1900	512	VL	NT	-2.65	-0.001432	±2.5	PASS
GSM1900	512	VH	NT	2.52	0.001362	±2.5	PASS
GSM1900	661	VN	NT	12.17	0.006473	±2.5	PASS
GSM1900	661	VL	NT	15.76	0.008383	±2.5	PASS
GSM1900	661	VH	NT	-2.20	-0.001170	±2.5	PASS
GSM1900	810	VN	NT	-1.23	-0.000644	±2.5	PASS
GSM1900	810	VL	NT	5.23	0.002739	±2.5	PASS
GSM1900	810	VH	NT	6.42	0.003362	±2.5	PASS
GPRS1900	512	VN	NT	24.57	0.013280	±2.5	PASS
GPRS1900	512	VL	NT	21.76	0.011761	±2.5	PASS
GPRS1900	512	VH	NT	30.22	0.016333	±2.5	PASS
GPRS1900	661	VN	NT	19.60	0.010426	±2.5	PASS
GPRS1900	661	VL	NT	20.86	0.011096	±2.5	PASS
GPRS1900	661	VH	NT	17.85	0.009495	±2.5	PASS
GPRS1900	810	VN	NT	29.99	0.015703	±2.5	PASS
GPRS1900	810	VL	NT	1.39	0.000728	±2.5	PASS

GPRS1900	810	VH	NT	19.95	0.010446	±2.5	PASS
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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	9.78	0.011866	±2.5	PASS
GSM850	128	NV	-20	8.68	0.010531	±2.5	PASS
GSM850	128	NV	-10	7.55	0.009160	±2.5	PASS
GSM850	128	NV	0	9.01	0.010932	±2.5	PASS
GSM850	128	NV	10	5.84	0.007086	±2.5	PASS
GSM850	128	NV	20	5.42	0.006576	±2.5	PASS
GSM850	128	NV	30	8.78	0.010653	±2.5	PASS
GSM850	128	NV	40	11.40	0.013832	±2.5	PASS
GSM850	128	NV	50	6.65	0.008068	±2.5	PASS
GSM850	190	NV	-30	5.97	0.007136	±2.5	PASS
GSM850	190	NV	-20	4.65	0.005558	±2.5	PASS
GSM850	190	NV	-10	6.75	0.008068	±2.5	PASS
GSM850	190	NV	0	10.53	0.012587	±2.5	PASS
GSM850	190	NV	10	-0.06	-0.000072	±2.5	PASS
GSM850	190	NV	20	14.59	0.017440	±2.5	PASS
GSM850	190	NV	30	2.00	0.002391	±2.5	PASS
GSM850	190	NV	40	4.52	0.005403	±2.5	PASS
GSM850	190	NV	50	2.65	0.003168	±2.5	PASS
GSM850	251	NV	-30	1.23	0.001449	±2.5	PASS
GSM850	251	NV	-20	9.91	0.011675	±2.5	PASS
GSM850	251	NV	-10	7.30	0.008600	±2.5	PASS
GSM850	251	NV	0	7.14	0.008412	±2.5	PASS
GSM850	251	NV	10	4.10	0.004830	±2.5	PASS
GSM850	251	NV	20	3.84	0.004524	±2.5	PASS
GSM850	251	NV	30	5.39	0.006350	±2.5	PASS
GSM850	251	NV	40	8.75	0.010309	±2.5	PASS
GSM850	251	NV	50	10.40	0.012253	±2.5	PASS
GPRS850	128	NV	-30	2.78	0.003373	±2.5	PASS
GPRS850	128	NV	-20	2.07	0.002512	±2.5	PASS
GPRS850	128	NV	-10	1.26	0.001529	±2.5	PASS
GPRS850	128	NV	0	0.97	0.001177	±2.5	PASS
GPRS850	128	NV	10	1.23	0.001492	±2.5	PASS
GPRS850	128	NV	20	6.36	0.007717	±2.5	PASS
GPRS850	128	NV	30	5.75	0.006976	±2.5	PASS
GPRS850	128	NV	40	3.33	0.004040	±2.5	PASS
GPRS850	128	NV	50	2.03	0.002463	±2.5	PASS
GPRS850	190	NV	-30	4.65	0.005558	±2.5	PASS

GPRS850	190	NV	-20	1.07	0.001279	±2.5	PASS
GPRS850	190	NV	-10	0.84	0.001004	±2.5	PASS
GPRS850	190	NV	0	5.26	0.006287	±2.5	PASS
GPRS850	190	NV	10	9.23	0.011033	±2.5	PASS
GPRS850	190	NV	20	8.10	0.009682	±2.5	PASS
GPRS850	190	NV	30	1.65	0.001972	±2.5	PASS
GPRS850	190	NV	40	6.10	0.007291	±2.5	PASS
GPRS850	190	NV	50	9.78	0.011690	±2.5	PASS
GPRS850	251	NV	-30	8.56	0.010085	±2.5	PASS
GPRS850	251	NV	-20	7.85	0.009248	±2.5	PASS
GPRS850	251	NV	-10	3.00	0.003534	±2.5	PASS
GPRS850	251	NV	0	3.07	0.003617	±2.5	PASS
GPRS850	251	NV	10	5.33	0.006279	±2.5	PASS
GPRS850	251	NV	20	5.88	0.006927	±2.5	PASS
GPRS850	251	NV	30	7.81	0.009201	±2.5	PASS
GPRS850	251	NV	40	6.07	0.007151	±2.5	PASS
GPRS850	251	NV	50	4.94	0.005820	±2.5	PASS
GSM1900	512	NV	-30	10.94	0.005913	±2.5	PASS
GSM1900	512	NV	-20	12.11	0.006545	±2.5	PASS
GSM1900	512	NV	-10	-1.81	-0.000978	±2.5	PASS
GSM1900	512	NV	0	1.23	0.000665	±2.5	PASS
GSM1900	512	NV	10	2.36	0.001276	±2.5	PASS
GSM1900	512	NV	20	3.84	0.002075	±2.5	PASS
GSM1900	512	NV	30	19.21	0.010383	±2.5	PASS
GSM1900	512	NV	40	21.79	0.011777	±2.5	PASS
GSM1900	512	NV	50	15.11	0.008167	±2.5	PASS
GSM1900	661	NV	-30	12.62	0.006713	±2.5	PASS
GSM1900	661	NV	-20	-0.16	-0.000085	±2.5	PASS
GSM1900	661	NV	-10	8.14	0.004330	±2.5	PASS
GSM1900	661	NV	0	-5.94	-0.003160	±2.5	PASS
GSM1900	661	NV	10	4.04	0.002149	±2.5	PASS
GSM1900	661	NV	20	-1.13	-0.000601	±2.5	PASS
GSM1900	661	NV	30	15.08	0.008021	±2.5	PASS
GSM1900	661	NV	40	0.48	0.000255	±2.5	PASS
GSM1900	661	NV	50	1.87	0.000995	±2.5	PASS
GSM1900	810	NV	-30	14.27	0.007472	±2.5	PASS
GSM1900	810	NV	-20	0.32	0.000168	±2.5	PASS
GSM1900	810	NV	-10	4.52	0.002367	±2.5	PASS
GSM1900	810	NV	0	-4.94	-0.002587	±2.5	PASS
GSM1900	810	NV	10	11.56	0.006053	±2.5	PASS
GSM1900	810	NV	20	-3.97	-0.002079	±2.5	PASS
GSM1900	810	NV	30	18.47	0.009671	±2.5	PASS

GSM1900	810	NV	40	10.17	0.005325	±2.5	PASS
GSM1900	810	NV	50	4.10	0.002147	±2.5	PASS
GPRS1900	512	NV	-30	20.08	0.010853	±2.5	PASS
GPRS1900	512	NV	-20	14.17	0.007659	±2.5	PASS
GPRS1900	512	NV	-10	21.18	0.011447	±2.5	PASS
GPRS1900	512	NV	0	19.66	0.010626	±2.5	PASS
GPRS1900	512	NV	10	8.68	0.004691	±2.5	PASS
GPRS1900	512	NV	20	30.41	0.016436	±2.5	PASS
GPRS1900	512	NV	30	20.31	0.010977	±2.5	PASS
GPRS1900	512	NV	40	23.31	0.012599	±2.5	PASS
GPRS1900	512	NV	50	21.57	0.011658	±2.5	PASS
GPRS1900	661	NV	-30	17.31	0.009207	±2.5	PASS
GPRS1900	661	NV	-20	16.89	0.008984	±2.5	PASS
GPRS1900	661	NV	-10	12.30	0.006543	±2.5	PASS
GPRS1900	661	NV	0	20.21	0.010750	±2.5	PASS
GPRS1900	661	NV	10	18.05	0.009601	±2.5	PASS
GPRS1900	661	NV	20	20.21	0.010750	±2.5	PASS
GPRS1900	661	NV	30	11.27	0.005995	±2.5	PASS
GPRS1900	661	NV	40	18.92	0.010064	±2.5	PASS
GPRS1900	661	NV	50	26.57	0.014133	±2.5	PASS
GPRS1900	810	NV	-30	24.83	0.013001	±2.5	PASS
GPRS1900	810	NV	-20	20.34	0.010650	±2.5	PASS
GPRS1900	810	NV	-10	26.86	0.014064	±2.5	PASS
GPRS1900	810	NV	0	13.17	0.006896	±2.5	PASS
GPRS1900	810	NV	10	24.83	0.013001	±2.5	PASS
GPRS1900	810	NV	20	27.02	0.014148	±2.5	PASS
GPRS1900	810	NV	30	24.73	0.012949	±2.5	PASS
GPRS1900	810	NV	40	22.76	0.011917	±2.5	PASS
GPRS1900	810	NV	50	25.54	0.013373	±2.5	PASS

Appendix G: ERP and EIRP

Test Result

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	ERP		Limit (W)	Verdict
				(dBm)	(W)		
GSM850	GSM	31.18	-1.20	27.83	0.6067	7	PASS
	GPRS	31.08	-1.20	27.73	0.5929	7	PASS

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP		Limit (W)	Verdict
				(dBm)	(W)		
GSM1900	GSM	30.04	0.60	30.64	1.1588	2	PASS
	GPRS	30.13	0.60	30.73	1.1830	2	PASS

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