

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GSM850	128	5	32.58	30.75	38.45	PASS
GSM850	190	5	32.18	30.35	38.45	PASS
GSM850	251	5	31.23	29.4	38.45	PASS
GSM1900	512	0	29.27	29.6	33.00	PASS
GSM1900	661	0	29.44	29.77	33.00	PASS
GSM1900	810	0	28.67	29	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.57	30.74	38.45	PASS
GPRS850	128	5	2	32.19	30.36	38.45	PASS
GPRS850	128	5	3	30.95	29.12	38.45	PASS
GPRS850	128	5	4	30.27	28.44	38.45	PASS
GPRS850	190	5	1	32.08	30.25	38.45	PASS
GPRS850	190	5	2	31.79	29.96	38.45	PASS
GPRS850	190	5	3	30.78	28.95	38.45	PASS
GPRS850	190	5	4	30.18	28.35	38.45	PASS
GPRS850	251	5	1	31.26	29.43	38.45	PASS
GPRS850	251	5	2	31.02	29.19	38.45	PASS
GPRS850	251	5	3	30.31	28.48	38.45	PASS
GPRS850	251	5	4	29.82	27.99	38.45	PASS
GPRS1900	512	0	1	29.26	29.59	33.00	PASS
GPRS1900	512	0	2	28.19	28.52	33.00	PASS
GPRS1900	512	0	3	25.96	26.29	33.00	PASS
GPRS1900	512	0	4	24.70	25.03	33.00	PASS
GPRS1900	661	0	1	29.41	29.74	33.00	PASS
GPRS1900	661	0	2	28.41	28.74	33.00	PASS
GPRS1900	661	0	3	26.22	26.55	33.00	PASS
GPRS1900	661	0	4	24.94	25.27	33.00	PASS
GPRS1900	810	0	1	28.59	28.92	33.00	PASS
GPRS1900	810	0	2	27.75	28.08	33.00	PASS
GPRS1900	810	0	3	25.71	26.04	33.00	PASS
GPRS1900	810	0	4	24.45	24.78	33.00	PASS

Remark: $EIRP\ (dBm) = \text{Conducted power}\ (dBm) + \text{Antenna Gain}\ (dBi)$. (For GSM1900)
 $ERP\ (dBm) = EIRP\ (dBm) - 2.15\ (dB)$. (For GSM850)

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

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.63	13	PASS
GSM1900	661	0	2.71	13	PASS

Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

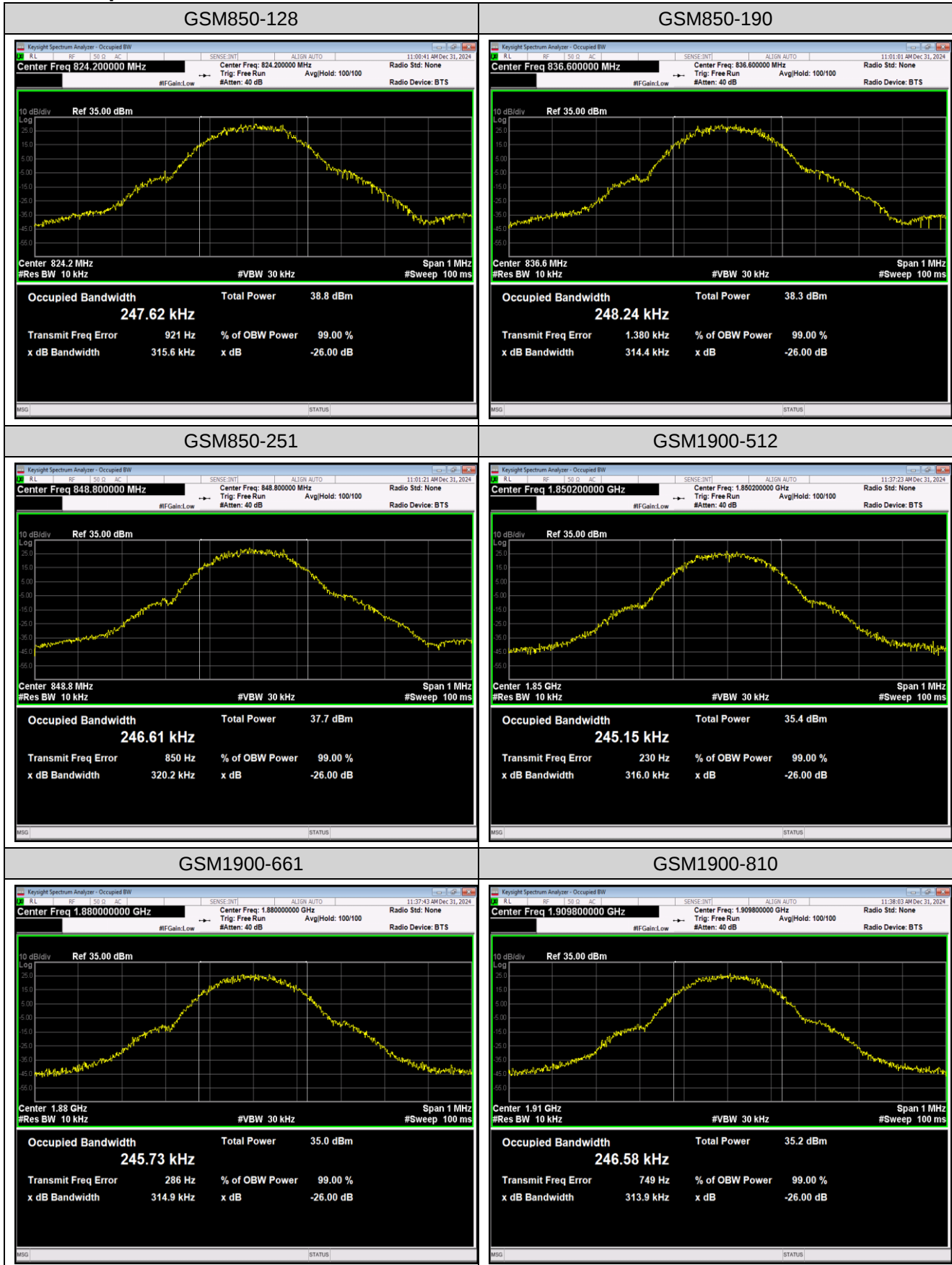


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24762	0.3156	---	PASS
GSM850	190	5	0.24824	0.3144	---	PASS
GSM850	251	5	0.24661	0.3202	---	PASS
GSM1900	512	0	0.24515	0.3160	---	PASS
GSM1900	661	0	0.24573	0.3149	---	PASS
GSM1900	810	0	0.24658	0.3139	---	PASS

Test Graphs

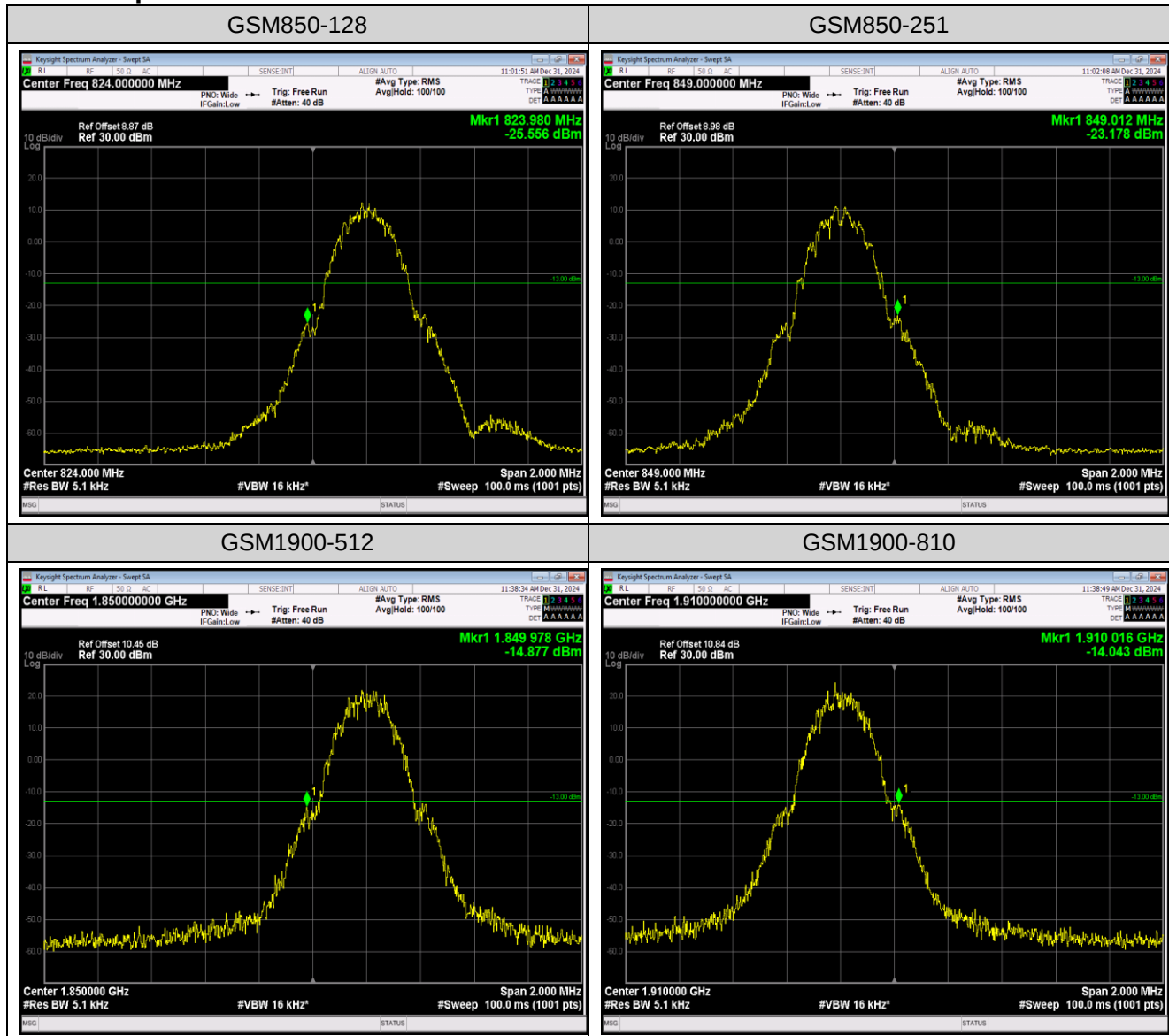


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-25.56	-13	PASS
GSM850	251	5	849.01	-23.18	-13	PASS
GSM1900	512	0	1849.98	-14.88	-13	PASS
GSM1900	810	0	1910.02	-14.04	-13	PASS

Test Graphs



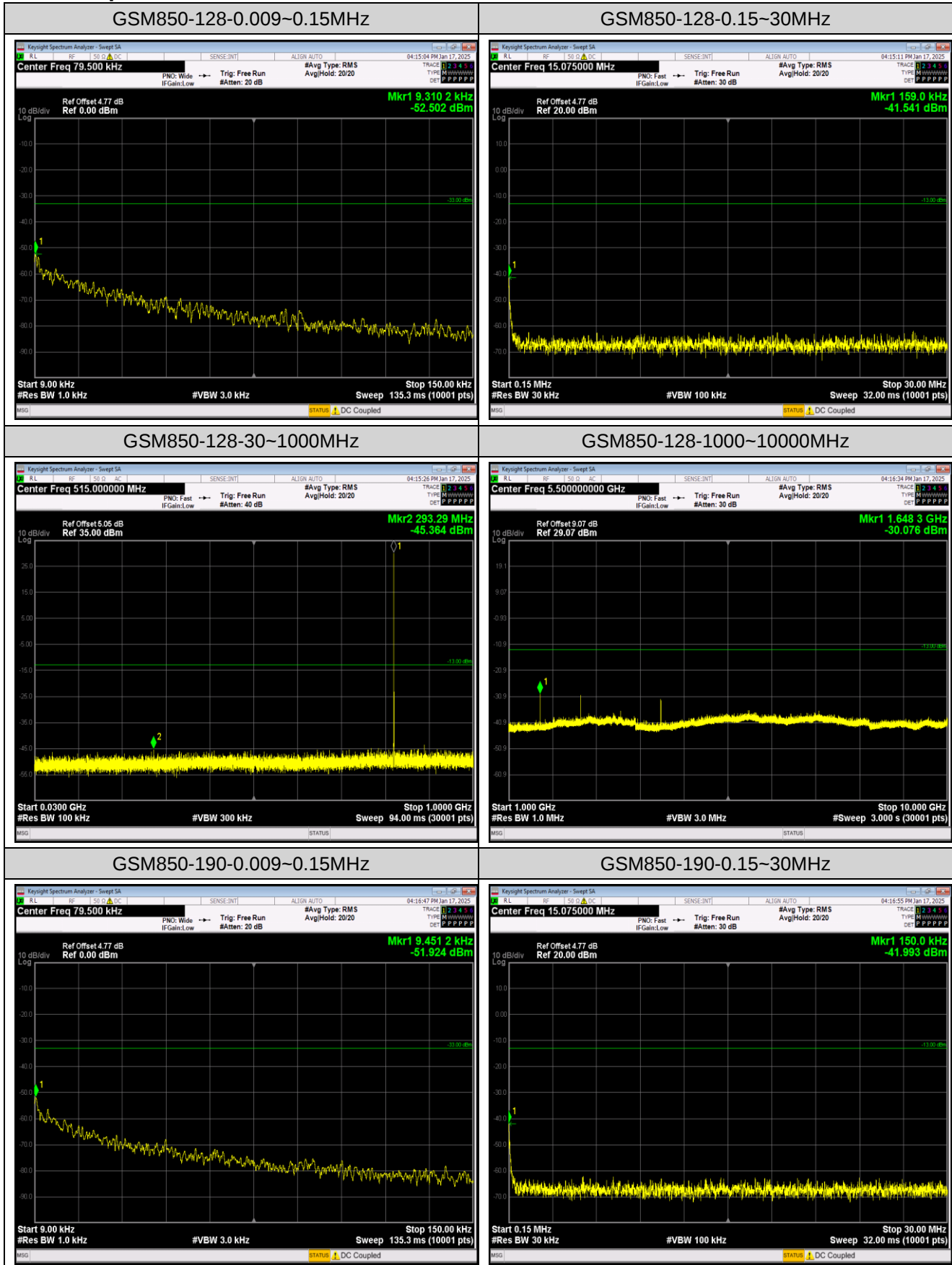
Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-52.5	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-41.54	-13	PASS
GSM850	128	5	30~1000MHz	293.29	-45.36	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-30.08	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-51.92	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-41.99	-13	PASS
GSM850	190	5	30~1000MHz	970.35	-45.29	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-30.82	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.85	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-39.05	-13	PASS
GSM850	251	5	30~1000MHz	503.2	-44.02	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-30.54	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.43	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-42.7	-23	PASS
GSM1900	512	0	30~1000MHz	895.6	-44.59	-13	PASS
GSM1900	512	0	1000~18000MHz	16786.77	-21.67	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.52	-43	PASS
GSM1900	661	0	0.15~30MHz	0.17	-43.37	-23	PASS
GSM1900	661	0	30~1000MHz	819.87	-45.2	-13	PASS
GSM1900	661	0	1000~18000MHz	15481.17	-21.76	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-53.86	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.89	-23	PASS
GSM1900	810	0	30~1000MHz	802.35	-44.72	-13	PASS
GSM1900	810	0	1000~18000MHz	16628.1	-22.05	-13	PASS

Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

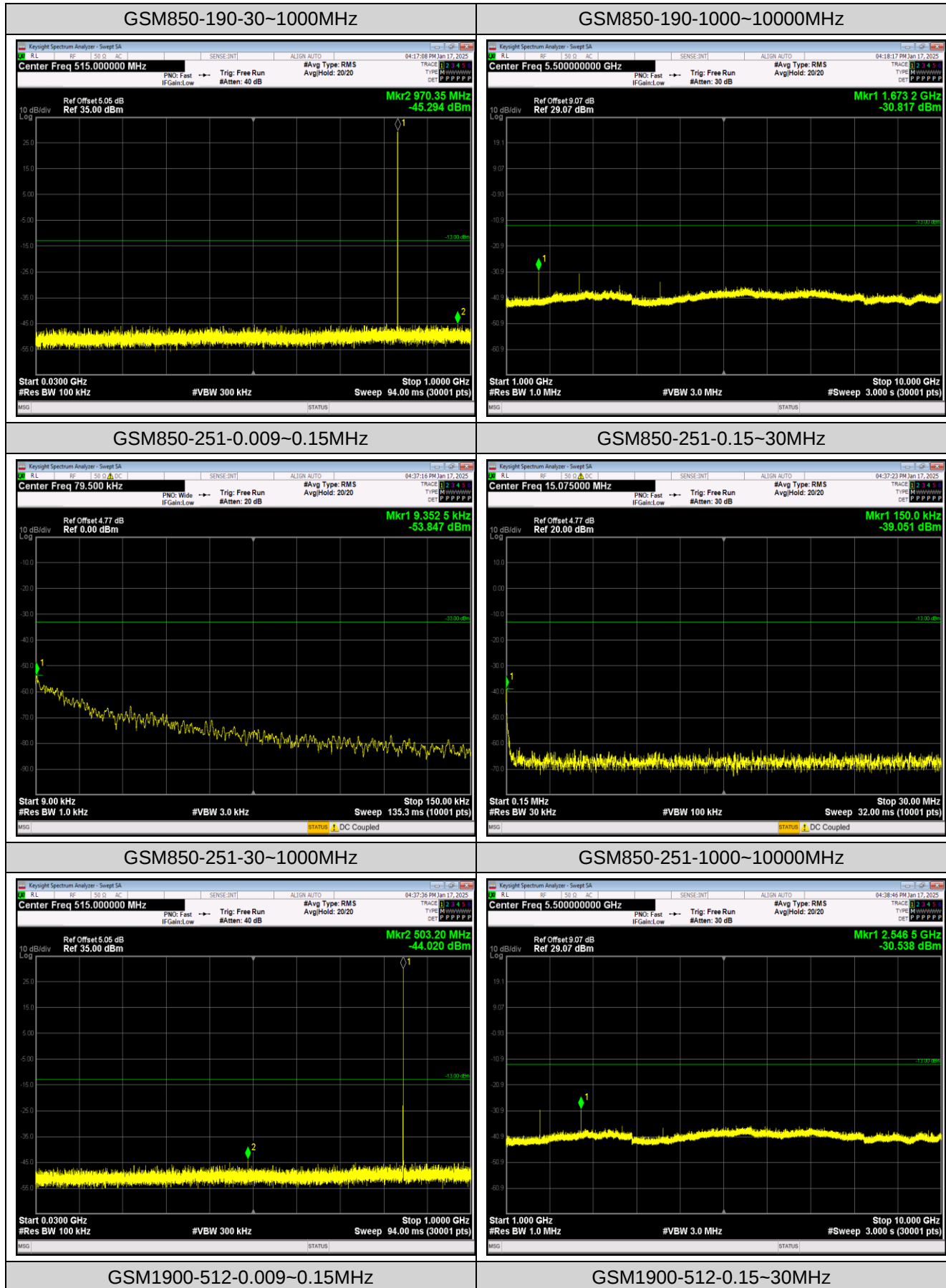


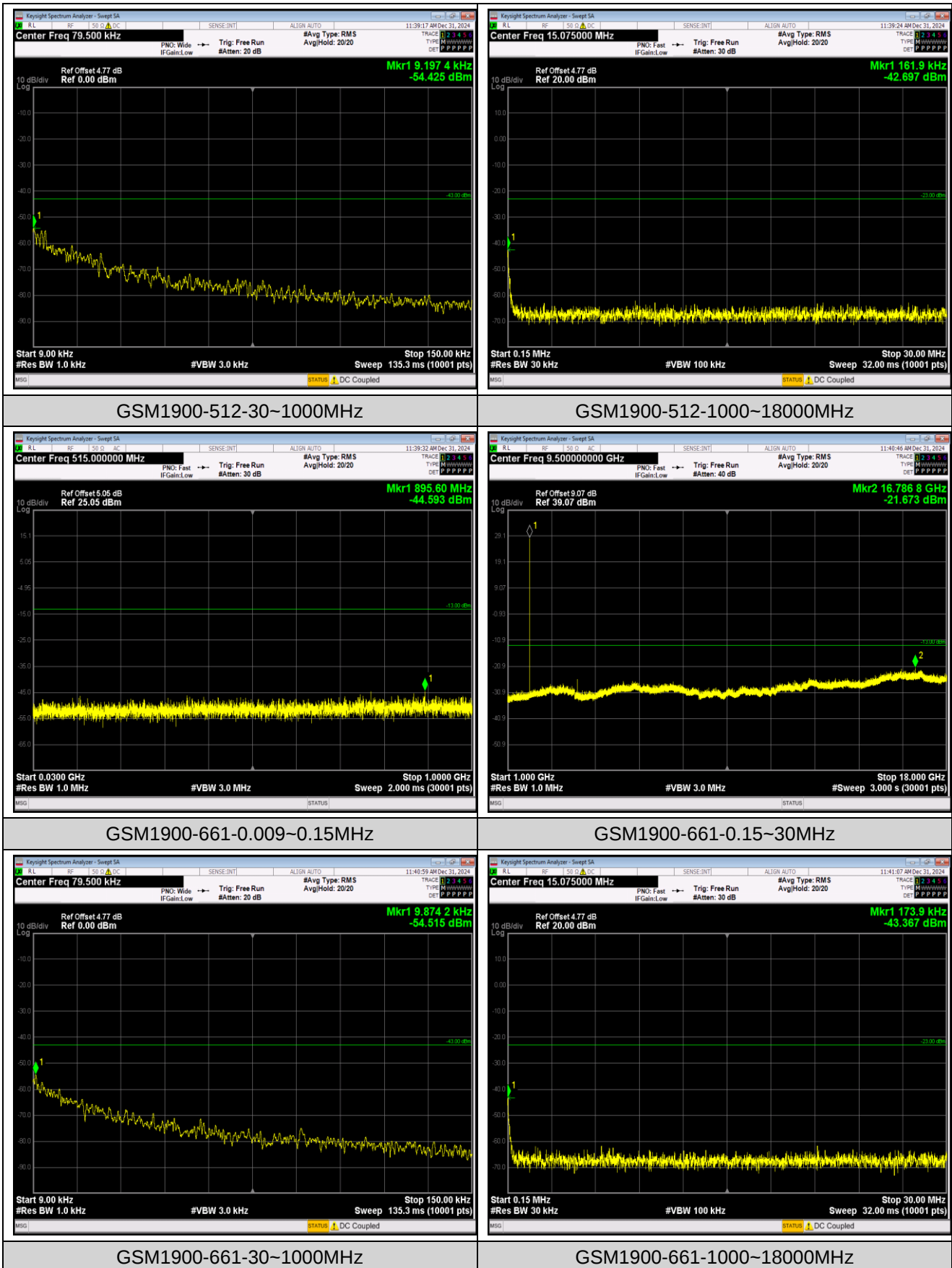
JianYan Testing Group Shenzhen Co., Ltd.

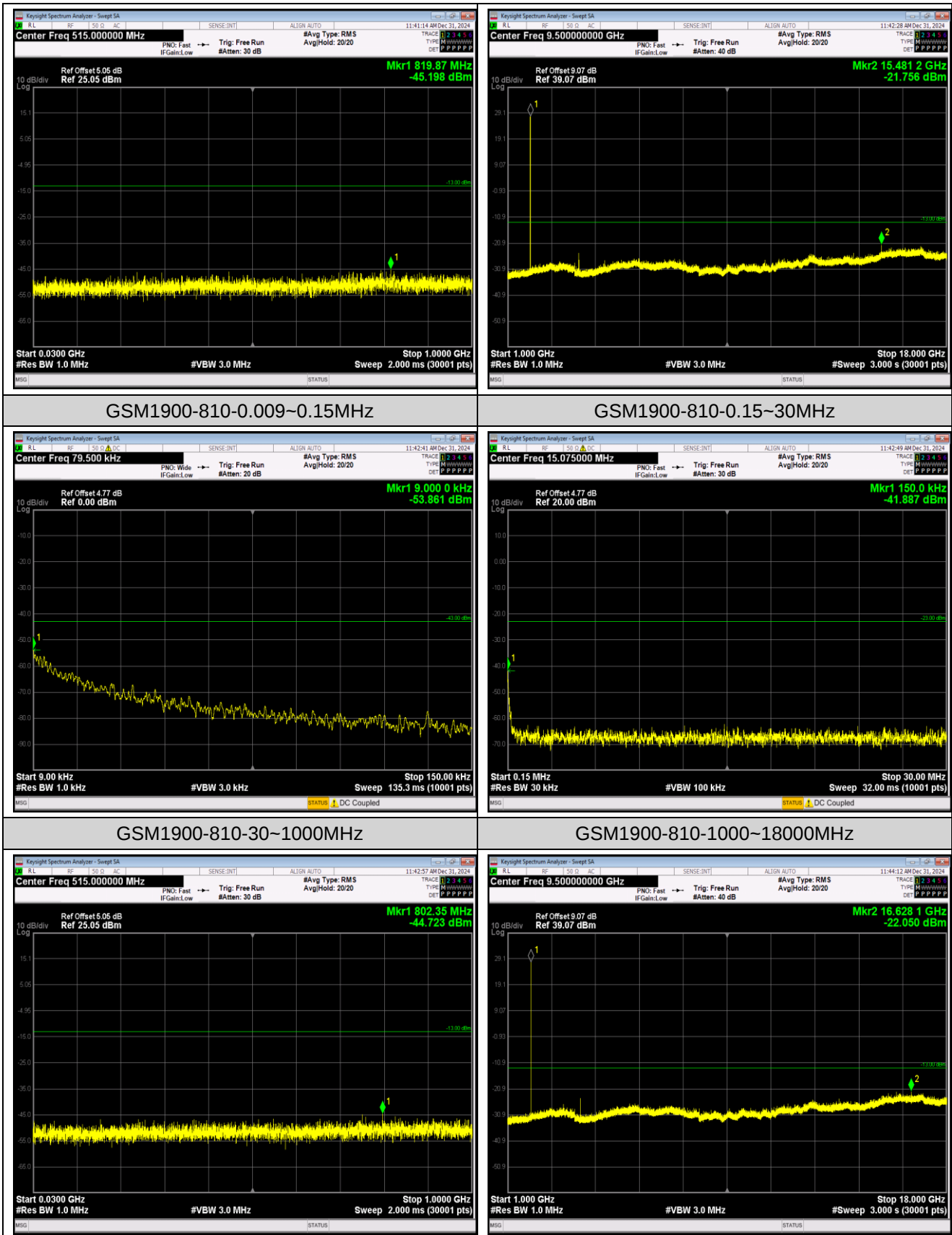
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-22.89	-0.027361	±2.5	Pass
	-20	-18.08	-0.021611		
	-10	-18.21	-0.021767		
	0	-19.40	-0.023189		
	10	-20.79	-0.024851		
	20	-21.76	-0.026010		
	30	-22.18	-0.026512		
	40	-15.01	-0.017942		
	50	-18.50	-0.022113		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-23.12	-0.027636	±2.5	Pass
	3.70	-20.99	-0.025090		
	4.20	-16.69	-0.019950		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: PCS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-63.38	-0.033713	Within authorized band for PCS 1900	Pass
	-20	-63.60	-0.033830		
	-10	-61.63	-0.032782		
	0	-60.63	-0.032250		
	10	-59.21	-0.031495		
	20	-57.24	-0.030447		
	30	-55.66	-0.029606		
	40	-53.53	-0.028473		
	50	-52.04	-0.027681		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-65.57	-0.034878	Within authorized band for PCS 1900	Pass
	3.70	-52.34	-0.027840		
	4.20	-64.54	-0.034330		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
GSM1900	661	PASS	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

