

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	33.17	30.46	38.45	PASS
GSM850	190	5	33.26	30.55	38.45	PASS
GSM850	251	5	32.96	30.25	38.45	PASS
GSM1900	512	0	30.58	30.95	33.00	PASS
GSM1900	661	0	30.68	31.05	33.00	PASS
GSM1900	810	0	30.64	31.01	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.23	30.52	38.45	PASS
GPRS850	128	5	2	31.01	28.3	38.45	PASS
GPRS850	128	5	3	28.98	26.27	38.45	PASS
GPRS850	128	5	4	26.84	24.13	38.45	PASS
GPRS850	190	5	1	33.30	30.59	38.45	PASS
GPRS850	190	5	2	31.07	28.36	38.45	PASS
GPRS850	190	5	3	29.04	26.33	38.45	PASS
GPRS850	190	5	4	26.93	24.22	38.45	PASS
GPRS850	251	5	1	32.99	30.28	38.45	PASS
GPRS850	251	5	2	30.97	28.06	38.45	PASS
GPRS850	251	5	3	28.77	26.06	38.45	PASS
GPRS850	251	5	4	26.69	23.98	38.45	PASS
GPRS1900	512	0	1	30.62	30.99	33.00	PASS
GPRS1900	512	0	2	28.51	28.88	33.00	PASS
GPRS1900	512	0	3	26.94	27.31	33.00	PASS
GPRS1900	512	0	4	24.92	25.29	33.00	PASS
GPRS1900	661	0	1	30.70	31.07	33.00	PASS
GPRS1900	661	0	2	28.57	28.94	33.00	PASS
GPRS1900	661	0	3	26.98	27.35	33.00	PASS
GPRS1900	661	0	4	24.93	25.3	33.00	PASS
GPRS1900	810	0	1	30.63	31	33.00	PASS
GPRS1900	810	0	2	28.41	28.78	33.00	PASS
GPRS1900	810	0	3	26.80	27.17	33.00	PASS
GPRS1900	810	0	4	24.74	25.11	33.00	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + 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	3.09	13	PASS
GSM1900	661	0	2.8	13	PASS

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

Test Graphs

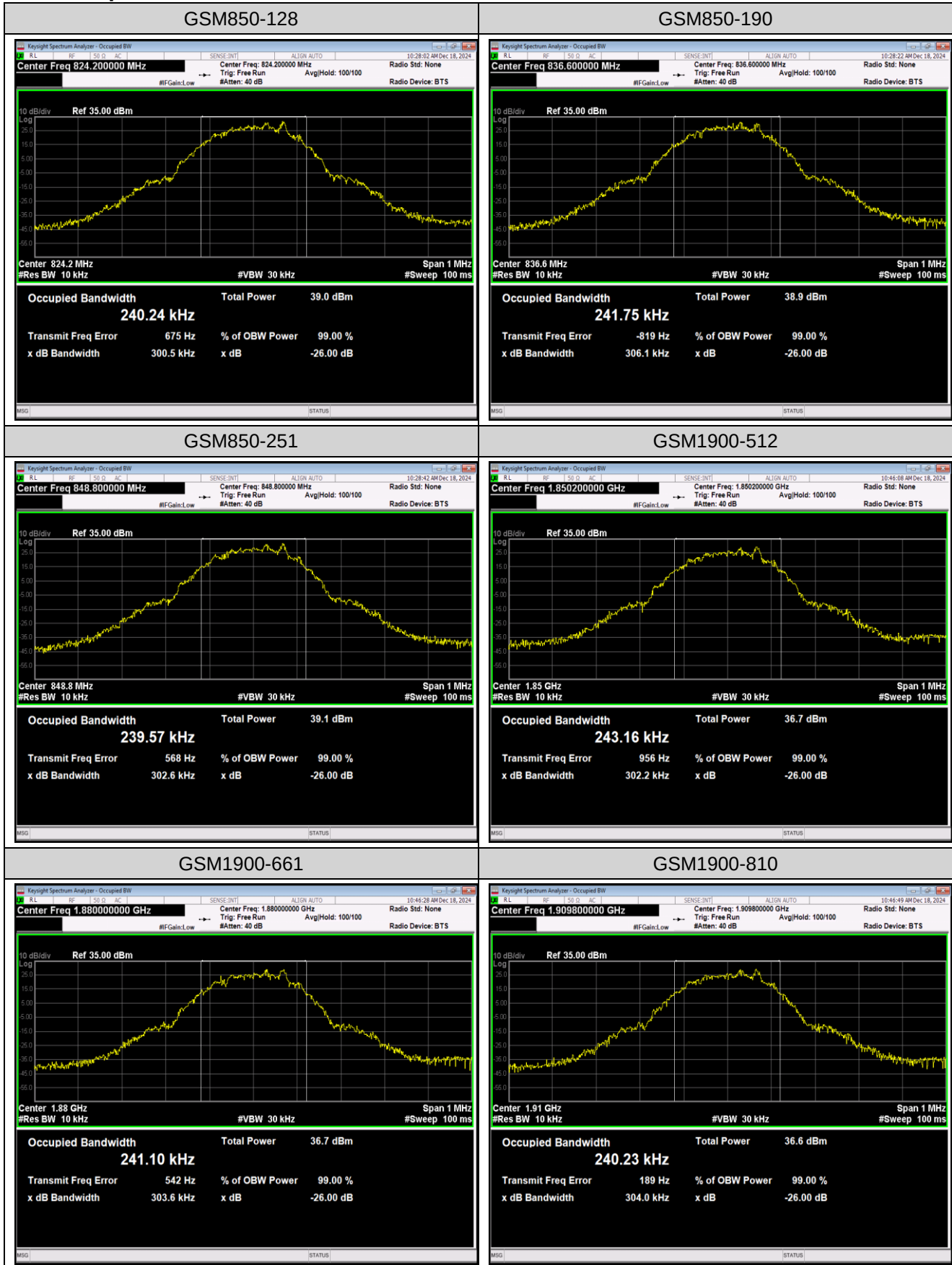


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24024	0.3005	---	PASS
GSM850	190	5	0.24175	0.3061	---	PASS
GSM850	251	5	0.23957	0.3026	---	PASS
GSM1900	512	0	0.24316	0.3022	---	PASS
GSM1900	661	0	0.24110	0.3036	---	PASS
GSM1900	810	0	0.24023	0.3040	---	PASS

Test Graphs

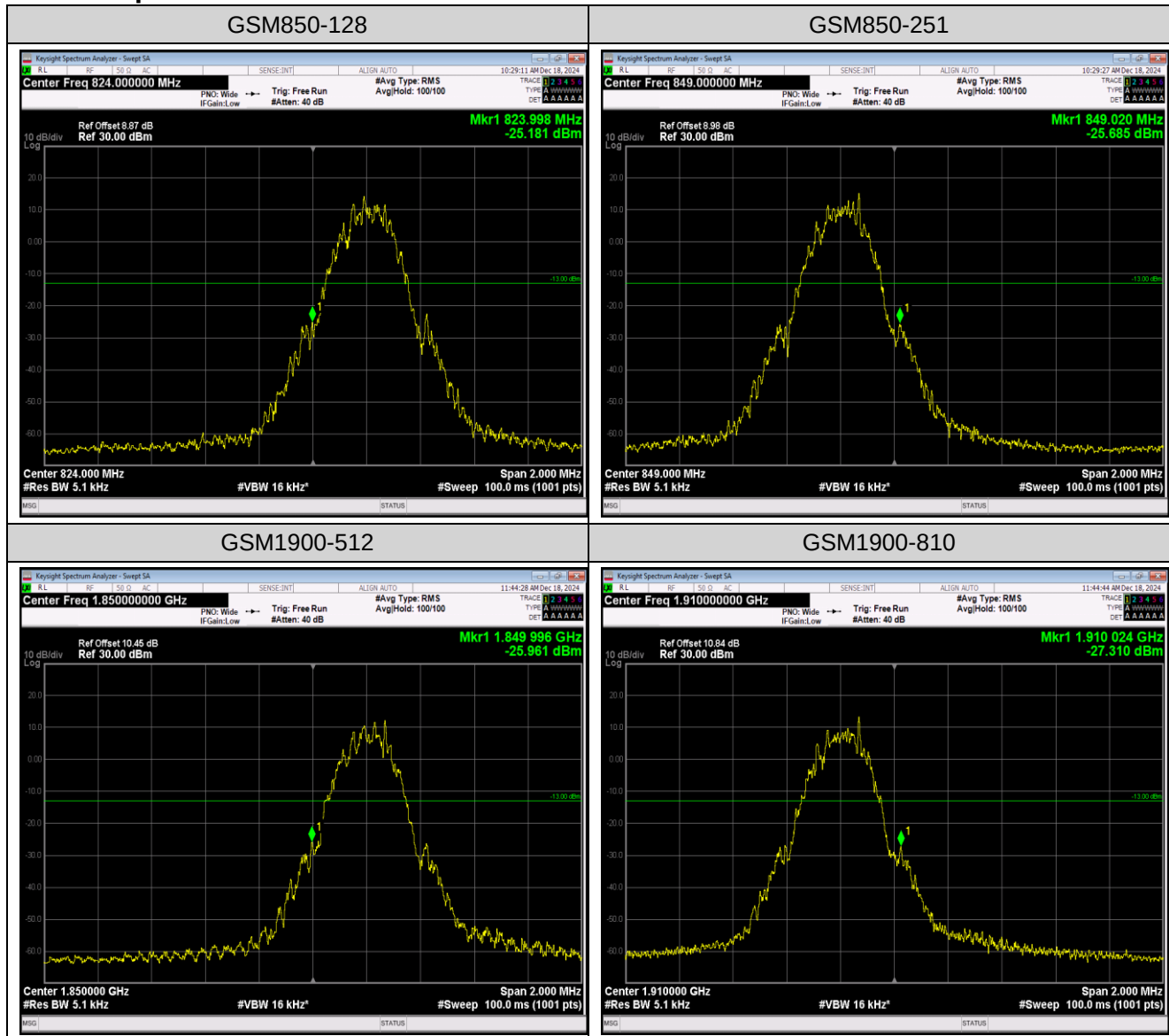


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-25.18	-13	PASS
GSM850	251	5	849.02	-25.68	-13	PASS
GSM1900	512	0	1850.00	-25.96	-13	PASS
GSM1900	810	0	1910.02	-27.31	-13	PASS

Test Graphs



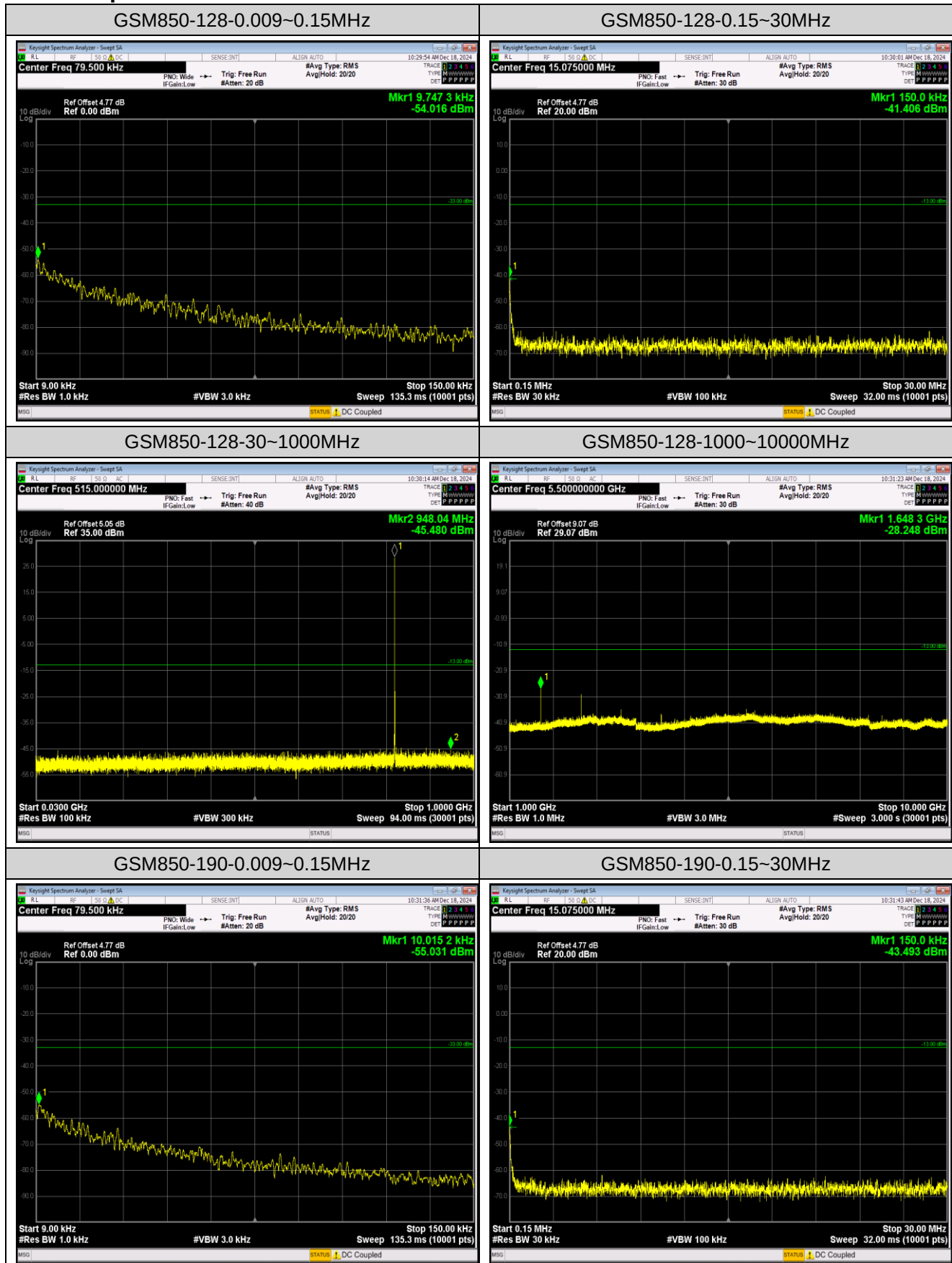
Appendix E: Conducted Spurious Emission

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	-54.02	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.41	-13	PASS
GSM850	128	5	30~1000MHz	948.04	-45.48	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-28.25	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.03	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-43.49	-13	PASS
GSM850	190	5	30~1000MHz	961.2	-44.45	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-29.73	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.22	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-40.13	-13	PASS
GSM850	251	5	30~1000MHz	536.83	-44.4	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-30.07	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.8	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-43.58	-23	PASS
GSM1900	512	0	30~1000MHz	499.25	-45.32	-13	PASS
GSM1900	512	0	1000~18000MHz	15841.57	-22.03	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.68	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-43.35	-23	PASS
GSM1900	661	0	30~1000MHz	787.15	-45.5	-13	PASS
GSM1900	661	0	1000~18000MHz	16813.4	-21.94	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.11	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-39.16	-23	PASS
GSM1900	810	0	30~1000MHz	832.77	-45.18	-13	PASS
GSM1900	810	0	1000~18000MHz	16864.4	-21.78	-13	PASS

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

Test Graphs

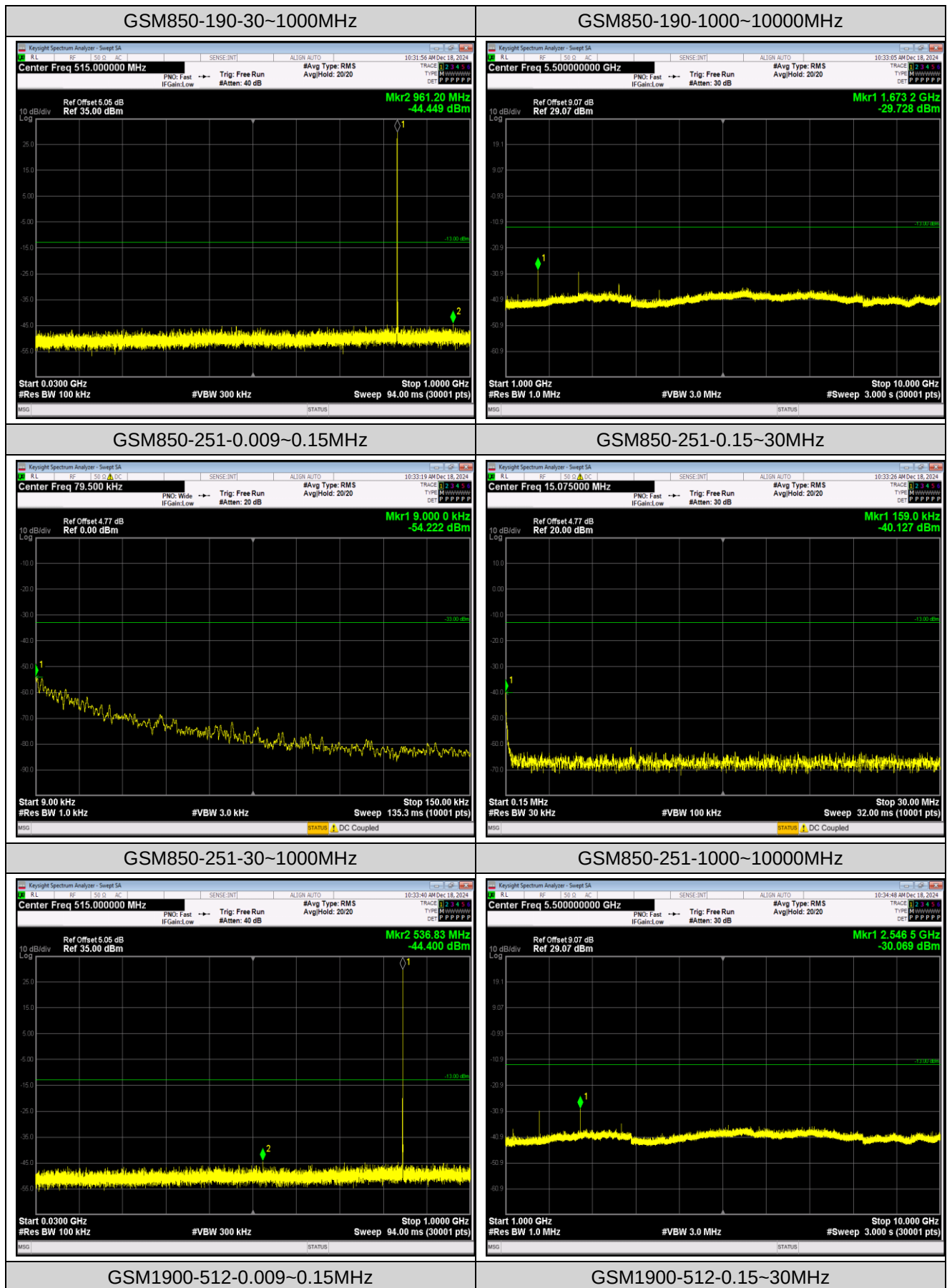


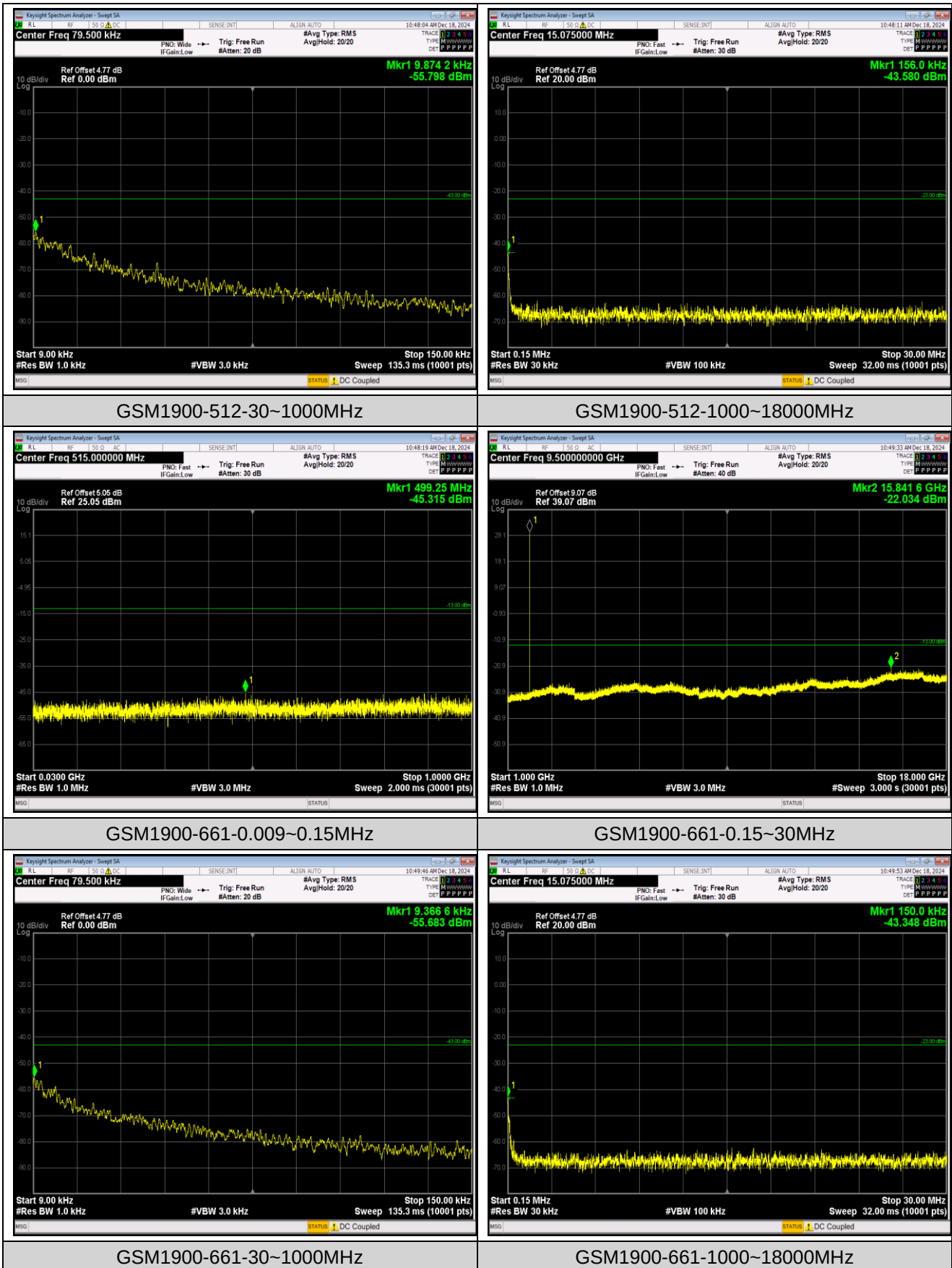
JianYan Testing Group Shenzhen Co., Ltd.

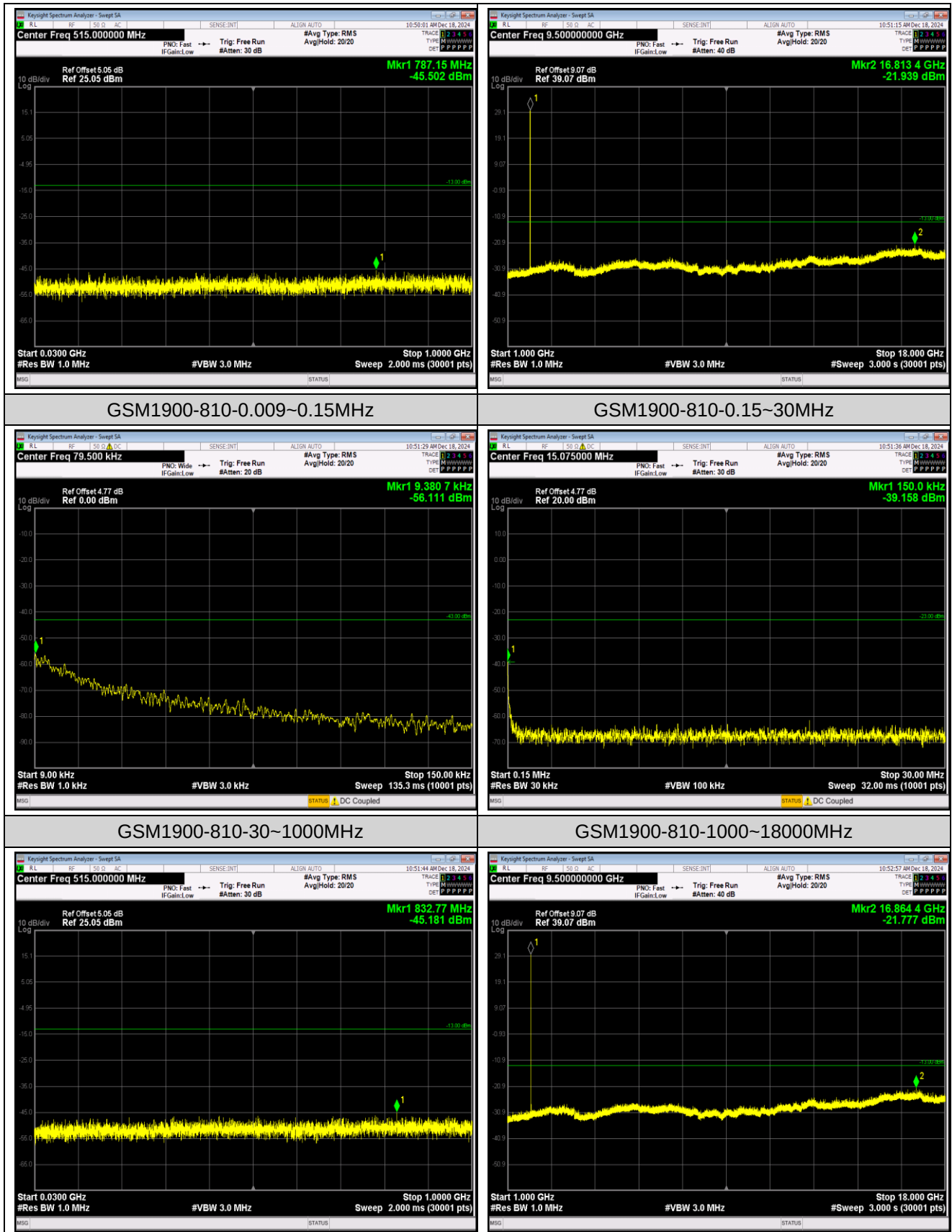
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Appendix F: Frequency Stability

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	-0.48	-0.000574	±2.5	Pass
	-20	-3.52	-0.004208		
	-10	-1.90	-0.002271		
	0	-1.45	-0.001733		
	10	-1.42	-0.001697		
	20	6.62	0.007913		
	30	5.75	0.006873		
	40	6.33	0.007566		
	50	-4.75	-0.005678		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	5.55	0.006634	±2.5	Pass
	3.70	8.78	0.010495		
	4.20	-5.78	-0.006909		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	11.62	0.006181	Within authorized band for PCS 1900	Pass
	-20	8.91	0.004739		
	-10	9.10	0.004840		
	0	8.30	0.004415		
	10	7.94	0.004223		
	20	11.11	0.005910		
	30	4.00	0.002128		
	40	11.59	0.006165		
	50	13.14	0.006989		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	10.62	0.005649	Within authorized band for PCS 1900	Pass
	3.70	9.04	0.004809		
	4.20	2.91	0.001548		
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

