

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	32.75	30.4	38.45	PASS
GSM850	190	5	33.03	30.68	38.45	PASS
GSM850	251	5	32.88	30.53	38.45	PASS
GSM1900	512	0	29.88	30.38	33.00	PASS
GSM1900	661	0	30.05	30.55	33.00	PASS
GSM1900	810	0	30.22	30.72	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.74	30.39	38.45	PASS
GPRS850	128	5	2	30.37	28.02	38.45	PASS
GPRS850	128	5	3	28.57	26.22	38.45	PASS
GPRS850	128	5	4	26.59	24.24	38.45	PASS
GPRS850	190	5	1	33.00	30.65	38.45	PASS
GPRS850	190	5	2	30.70	28.35	38.45	PASS
GPRS850	190	5	3	28.87	26.52	38.45	PASS
GPRS850	190	5	4	26.85	24.5	38.45	PASS
GPRS850	251	5	1	32.85	30.5	38.45	PASS
GPRS850	251	5	2	30.65	28.3	38.45	PASS
GPRS850	251	5	3	28.84	26.49	38.45	PASS
GPRS850	251	5	4	26.72	24.37	38.45	PASS
GPRS1900	512	0	1	29.85	30.35	33.00	PASS
GPRS1900	512	0	2	27.48	27.98	33.00	PASS
GPRS1900	512	0	3	25.78	26.28	33.00	PASS
GPRS1900	512	0	4	23.76	24.26	33.00	PASS
GPRS1900	661	0	1	30.01	30.51	33.00	PASS
GPRS1900	661	0	2	27.66	28.16	33.00	PASS
GPRS1900	661	0	3	25.98	26.48	33.00	PASS
GPRS1900	661	0	4	23.97	24.47	33.00	PASS
GPRS1900	810	0	1	30.21	30.71	33.00	PASS
GPRS1900	810	0	2	27.70	28.2	33.00	PASS
GPRS1900	810	0	3	26.00	26.5	33.00	PASS
GPRS1900	810	0	4	24.03	24.53	33.00	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For GSM850)

JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Project No.: JYTSZR2503028

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

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.74	13	PASS
GSM1900	661	0	2.69	13	PASS

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

Test Graphs

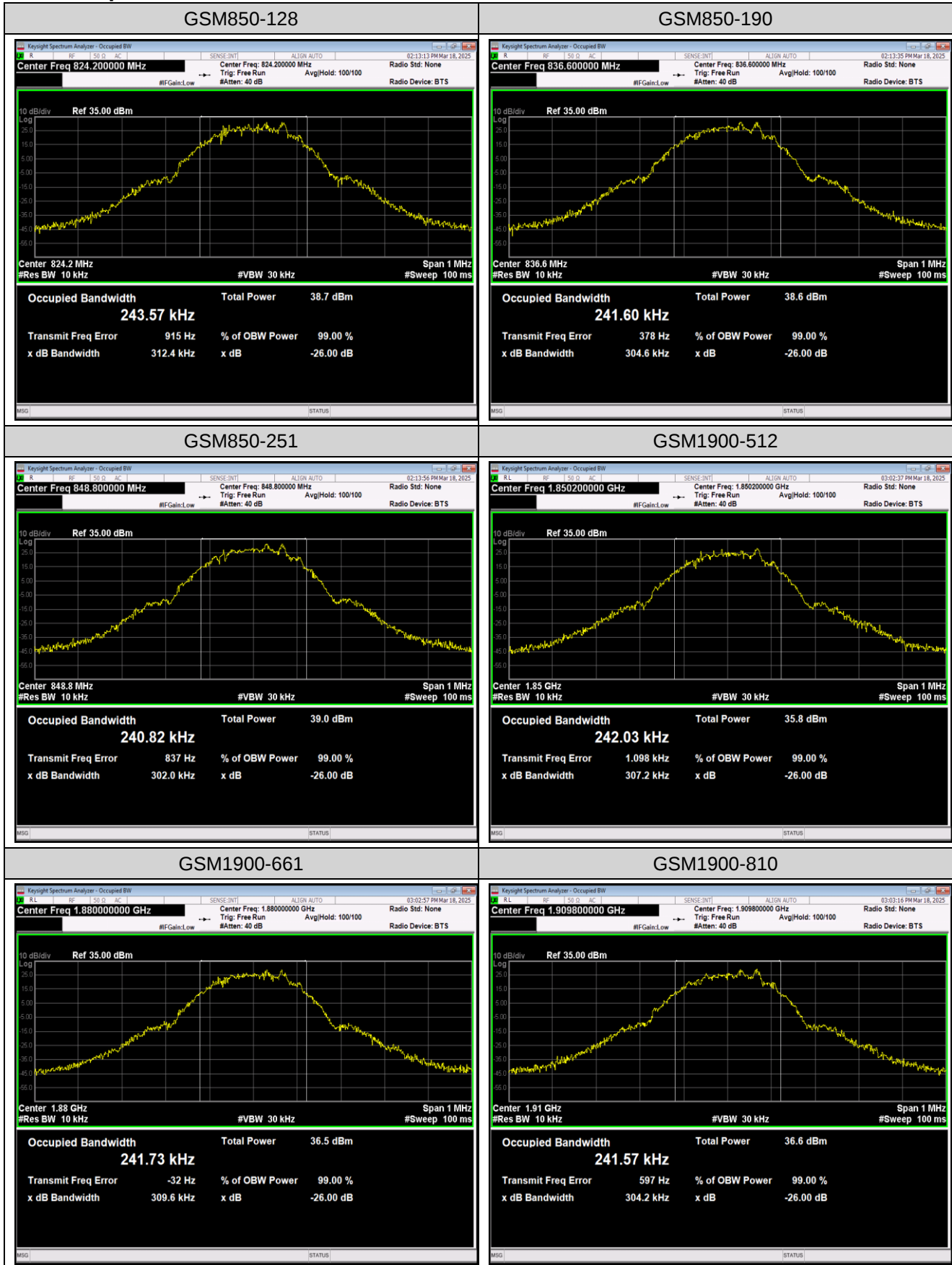


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24357	0.3124	---	PASS
GSM850	190	5	0.24160	0.3046	---	PASS
GSM850	251	5	0.24082	0.3020	---	PASS
GSM1900	512	0	0.24203	0.3072	---	PASS
GSM1900	661	0	0.24173	0.3096	---	PASS
GSM1900	810	0	0.24157	0.3042	---	PASS

Test Graphs

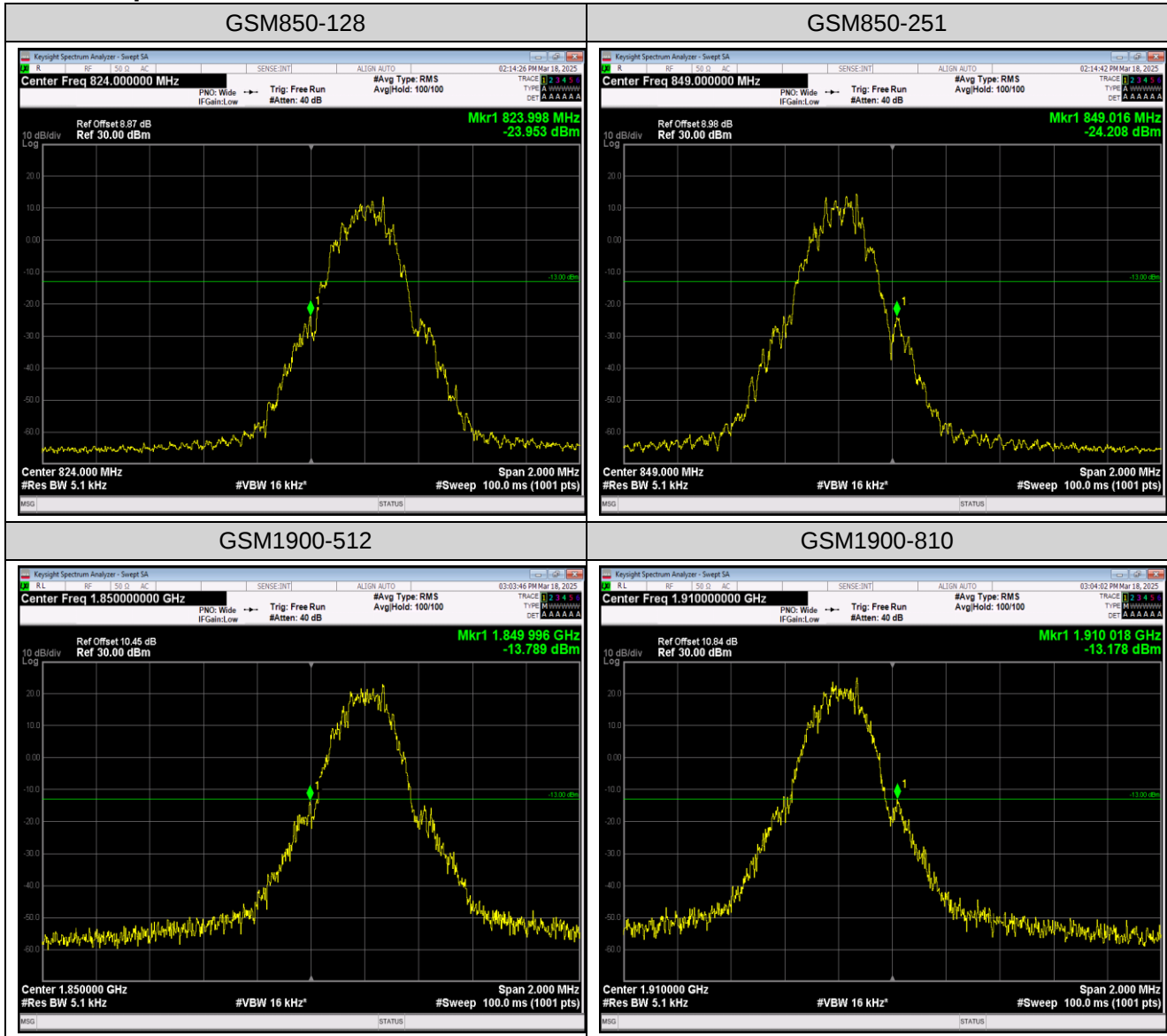


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.95	-13	PASS
GSM850	251	5	849.02	-24.21	-13	PASS
GSM1900	512	0	1850.00	-13.79	-13	PASS
GSM1900	810	0	1910.02	-13.18	-13	PASS

Test Graphs



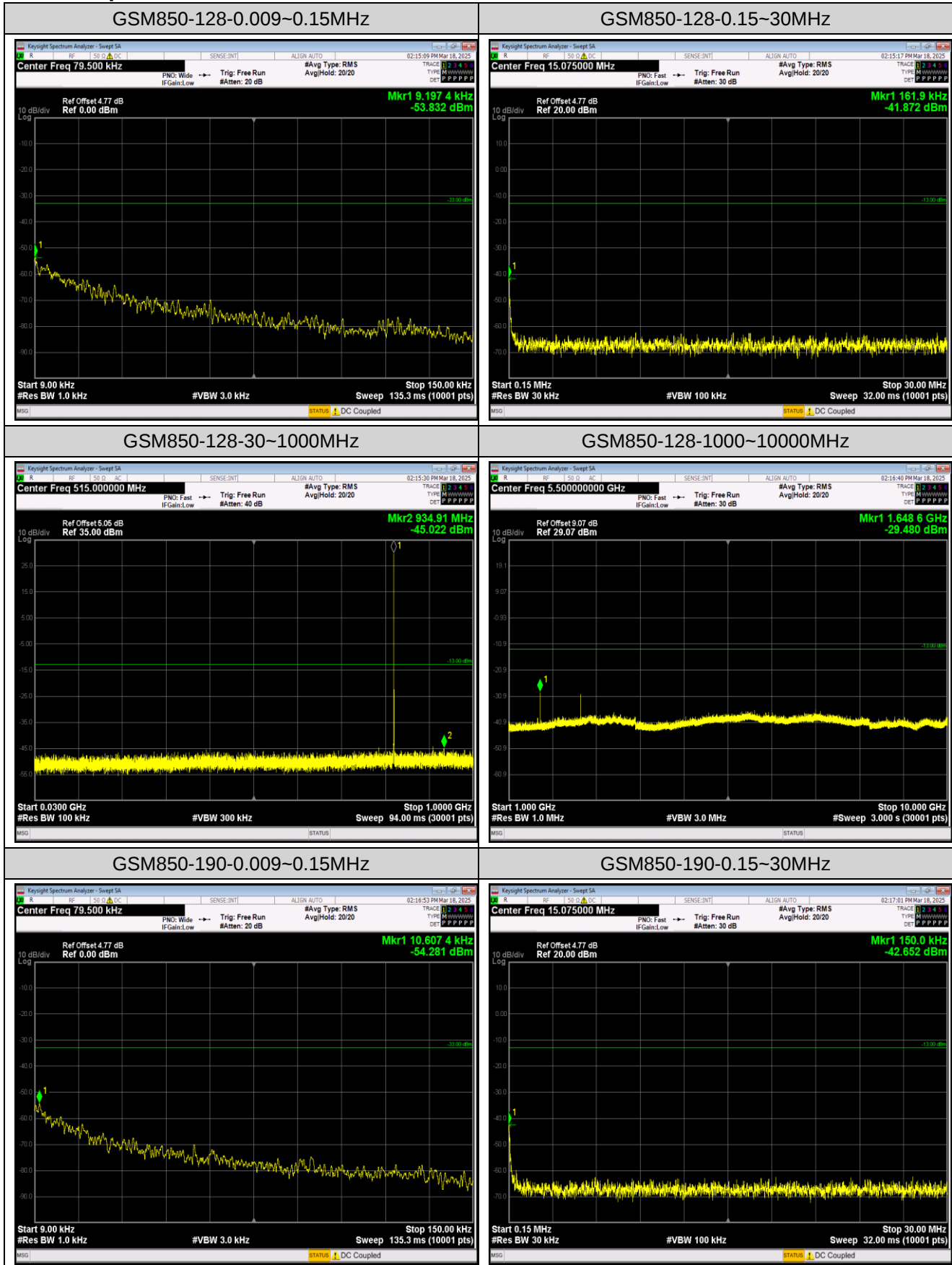
Appendix E: Conducted Spurious Emission

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	-53.83	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-41.87	-13	PASS
GSM850	128	5	30~1000MHz	934.91	-45.02	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-29.48	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.28	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.65	-13	PASS
GSM850	190	5	30~1000MHz	697.26	-45.4	-13	PASS
GSM850	190	5	1000~10000MHz	2509.6	-29.83	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.89	-33	PASS
GSM850	251	5	0.15~30MHz	0.17	-41.59	-13	PASS
GSM850	251	5	30~1000MHz	985.35	-44.96	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-29.65	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.36	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-42.21	-23	PASS
GSM1900	512	0	30~1000MHz	926.57	-45.3	-13	PASS
GSM1900	512	0	1000~18000MHz	16993.03	-21.92	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.11	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-41.98	-23	PASS
GSM1900	661	0	30~1000MHz	787.6	-45.69	-13	PASS
GSM1900	661	0	1000~18000MHz	16149.27	-22.02	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.88	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-42.72	-23	PASS
GSM1900	810	0	30~1000MHz	668.97	-45.75	-13	PASS
GSM1900	810	0	1000~18000MHz	16764.1	-22.07	-13	PASS

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

Test Graphs

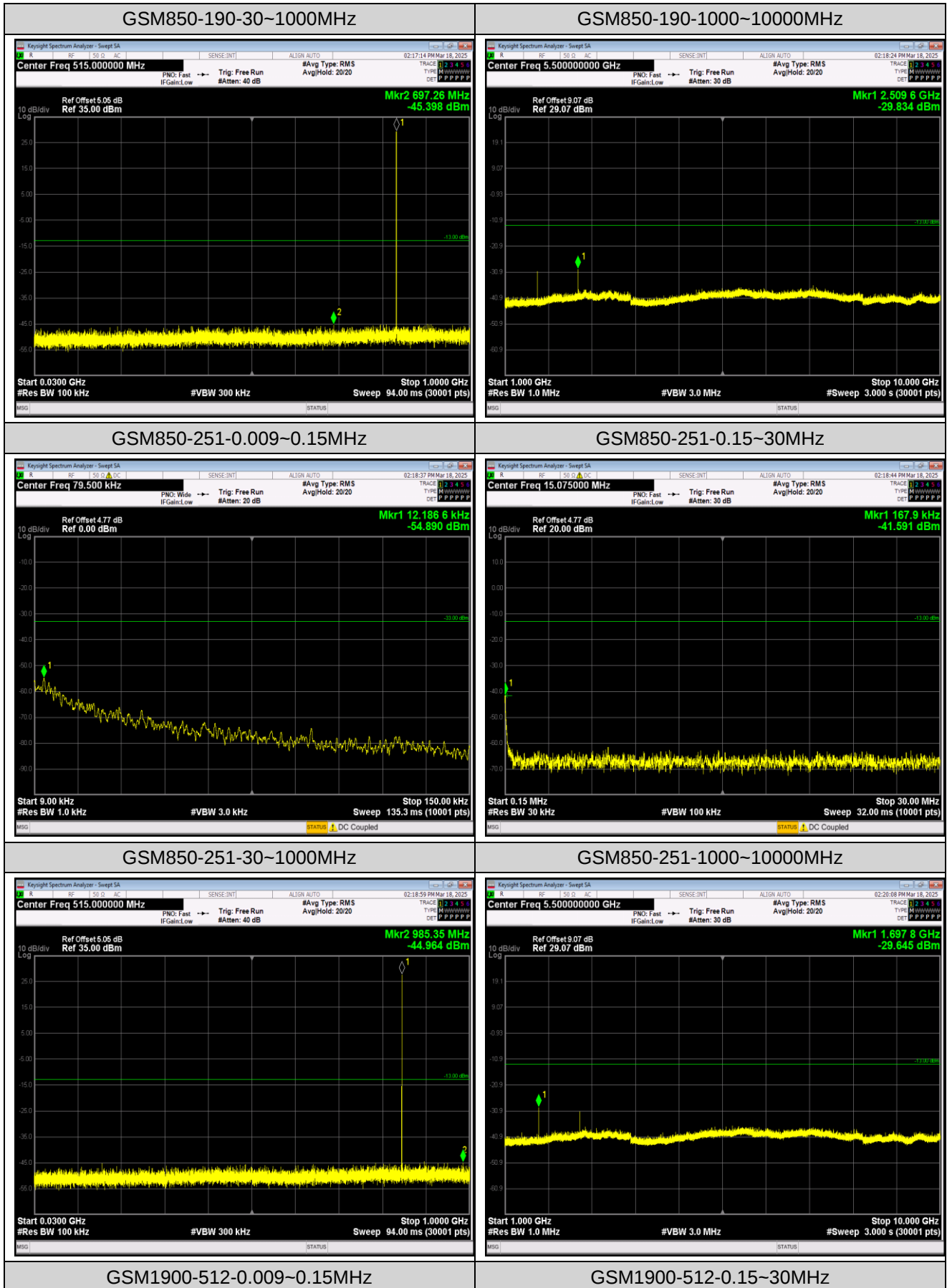


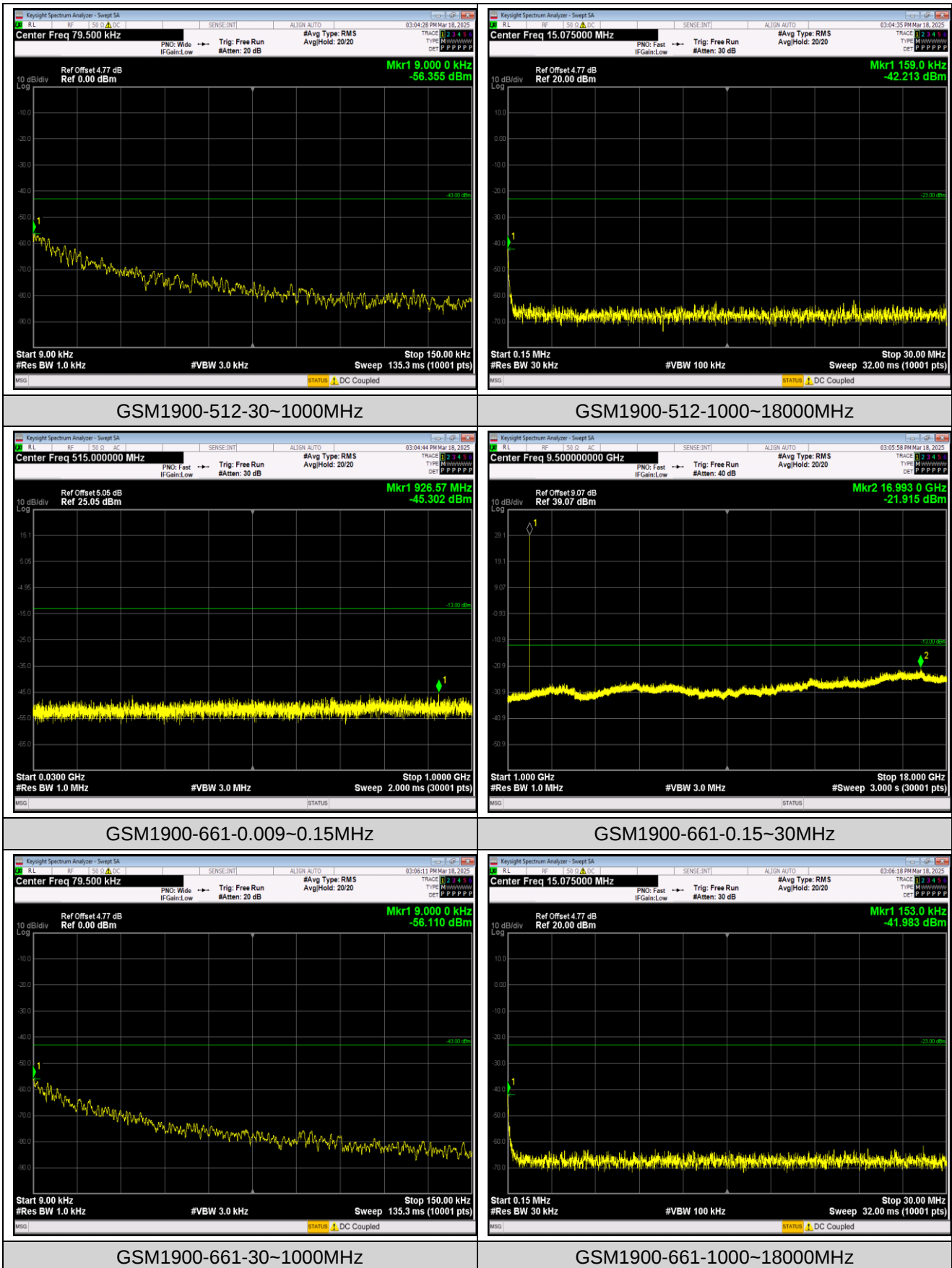
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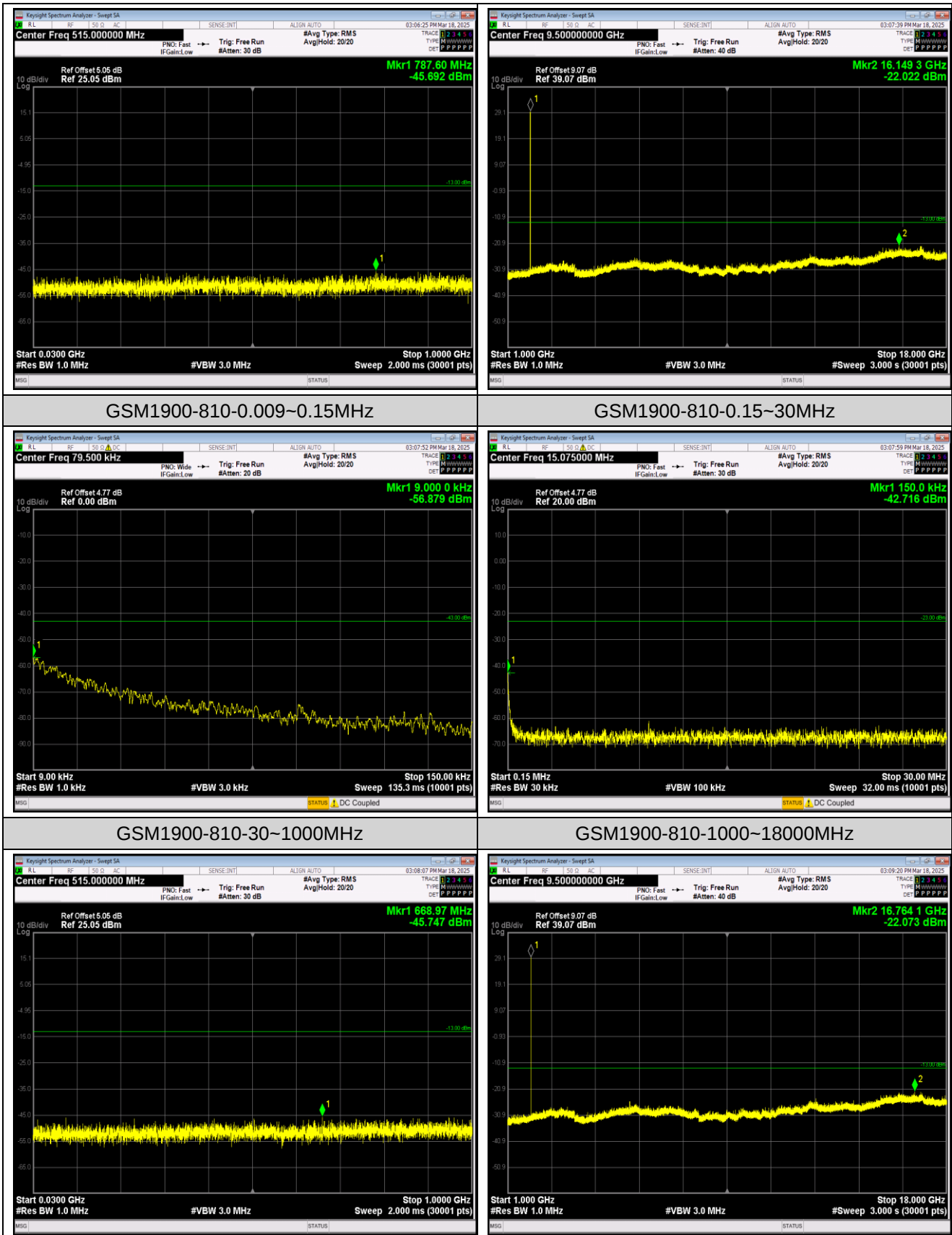
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-2.91	-0.003478	±2.5	Pass
	-20	-1.42	-0.001697		
	-10	-2.45	-0.002929		
	0	8.33	0.009957		
	10	6.55	0.007829		
	20	8.81	0.010531		
	30	-1.68	-0.002008		
	40	-1.58	-0.001889		
	50	-3.87	-0.004626		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	9.04	0.010806	±2.5	Pass
	3.70	8.17	0.009766		
	4.20	-3.84	-0.004590		
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	10.85	0.005771	Within authorized band for PCS 1900	Pass
	-20	1.49	0.000793		
	-10	4.49	0.002388		
	0	4.00	0.002128		
	10	-1.58	-0.000840		
	20	-0.52	-0.000277		
	30	-5.13	-0.002729		
	40	-9.04	-0.004809		
	50	-7.26	-0.003862		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.19	-0.000101	Within authorized band for PCS 1900	Pass
	3.70	2.26	0.001202		
	4.20	7.10	0.003777		
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

