

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	32.45	30.58	38.45	PASS
GSM850	190	5	32.59	30.72	38.45	PASS
GSM850	251	5	32.40	30.53	38.45	PASS
GSM1900	512	0	30.24	21.65	33.00	PASS
GSM1900	661	0	29.91	21.32	33.00	PASS
GSM1900	810	0	29.69	21.10	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.47	30.60	38.45	PASS
GPRS850	128	5	2	31.61	29.74	38.45	PASS
GPRS850	128	5	3	29.76	27.89	38.45	PASS
GPRS850	128	5	4	28.57	26.70	38.45	PASS
GPRS850	190	5	1	32.57	30.70	38.45	PASS
GPRS850	190	5	2	31.74	29.87	38.45	PASS
GPRS850	190	5	3	29.91	28.04	38.45	PASS
GPRS850	190	5	4	28.70	26.83	38.45	PASS
GPRS850	251	5	1	32.37	30.50	38.45	PASS
GPRS850	251	5	2	31.52	29.65	38.45	PASS
GPRS850	251	5	3	29.64	27.77	38.45	PASS
GPRS850	251	5	4	28.41	26.54	38.45	PASS
GPRS1900	512	0	1	30.21	21.62	33.00	PASS
GPRS1900	512	0	2	29.61	21.02	33.00	PASS
GPRS1900	512	0	3	28.12	19.53	33.00	PASS
GPRS1900	512	0	4	27.00	18.41	33.00	PASS
GPRS1900	661	0	1	29.91	21.32	33.00	PASS
GPRS1900	661	0	2	29.29	20.70	33.00	PASS
GPRS1900	661	0	3	27.76	19.17	33.00	PASS
GPRS1900	661	0	4	26.58	17.99	33.00	PASS
GPRS1900	810	0	1	29.68	21.09	33.00	PASS
GPRS1900	810	0	2	29.07	20.48	33.00	PASS
GPRS1900	810	0	3	27.56	18.97	33.00	PASS
GPRS1900	810	0	4	26.40	17.81	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)

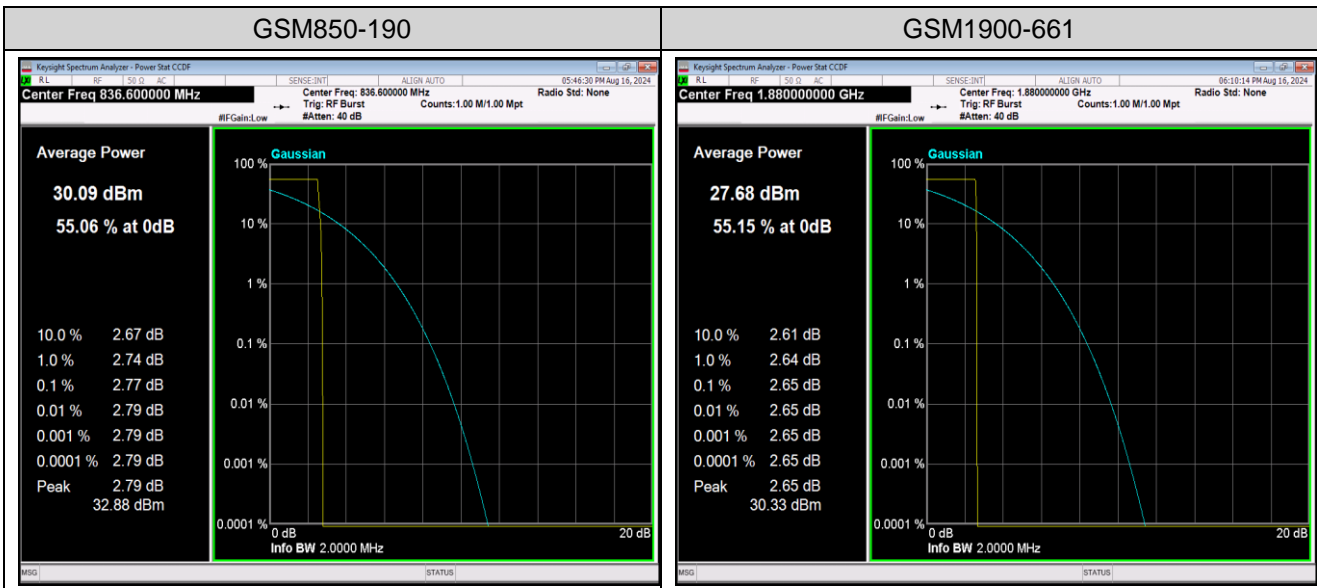
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.77	13	PASS
GSM1900	661	0	2.65	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	0.24658	0.3135	---	PASS
GSM850	190	5	0.24736	0.3244	---	PASS
GSM850	251	5	0.24446	0.3163	---	PASS
GSM1900	512	0	0.24575	0.3140	---	PASS
GSM1900	661	0	0.24539	0.3166	---	PASS
GSM1900	810	0	0.24489	0.3102	---	PASS

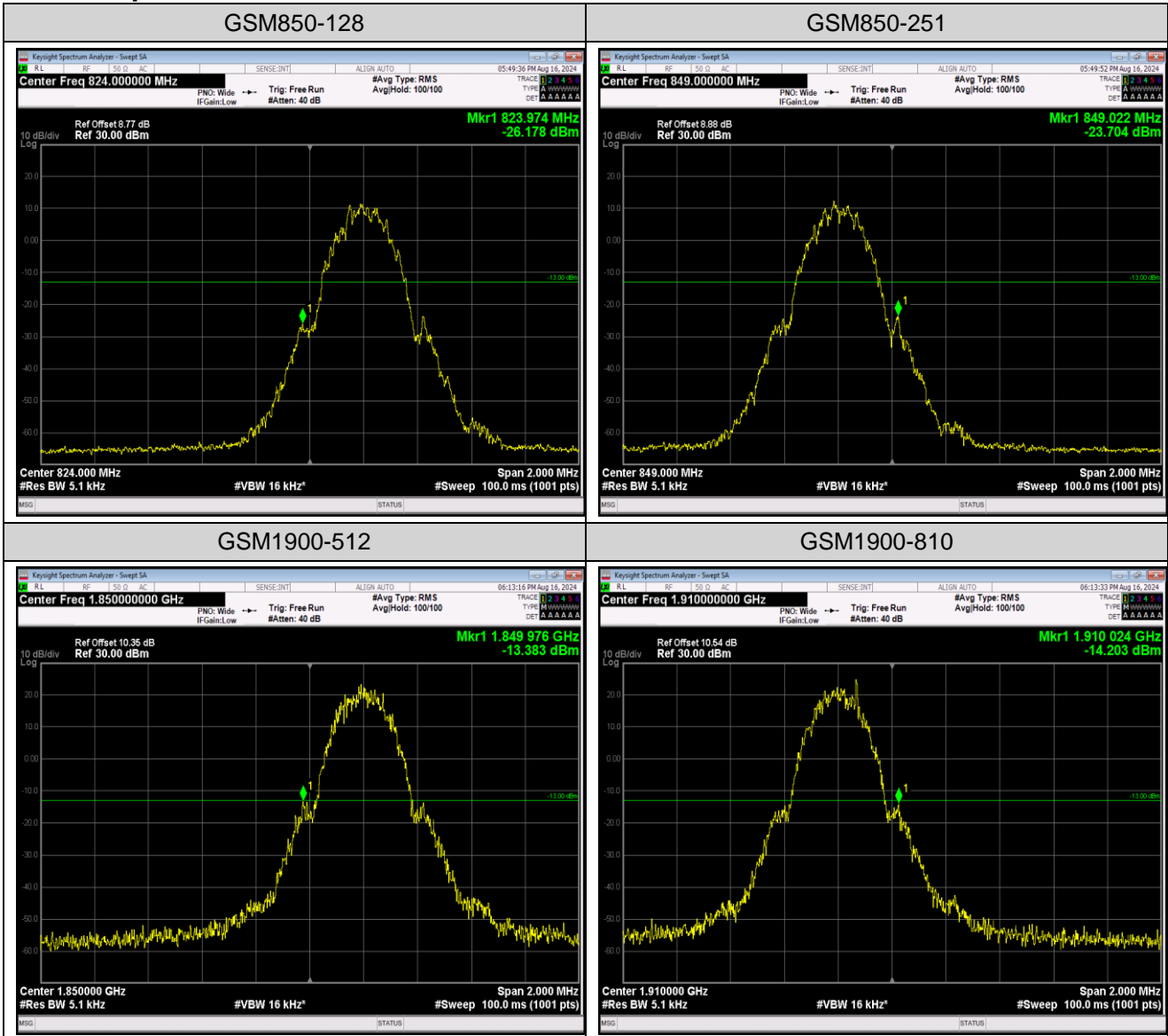
Test Graphs



Appendix D: Band Edge**Test Result**

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.97	-26.18	-13	PASS
GSM850	251	5	849.02	-23.70	-13	PASS
GSM1900	512	0	1849.98	-13.38	-13	PASS
GSM1900	810	0	1910.02	-14.20	-13	PASS

Test Graphs



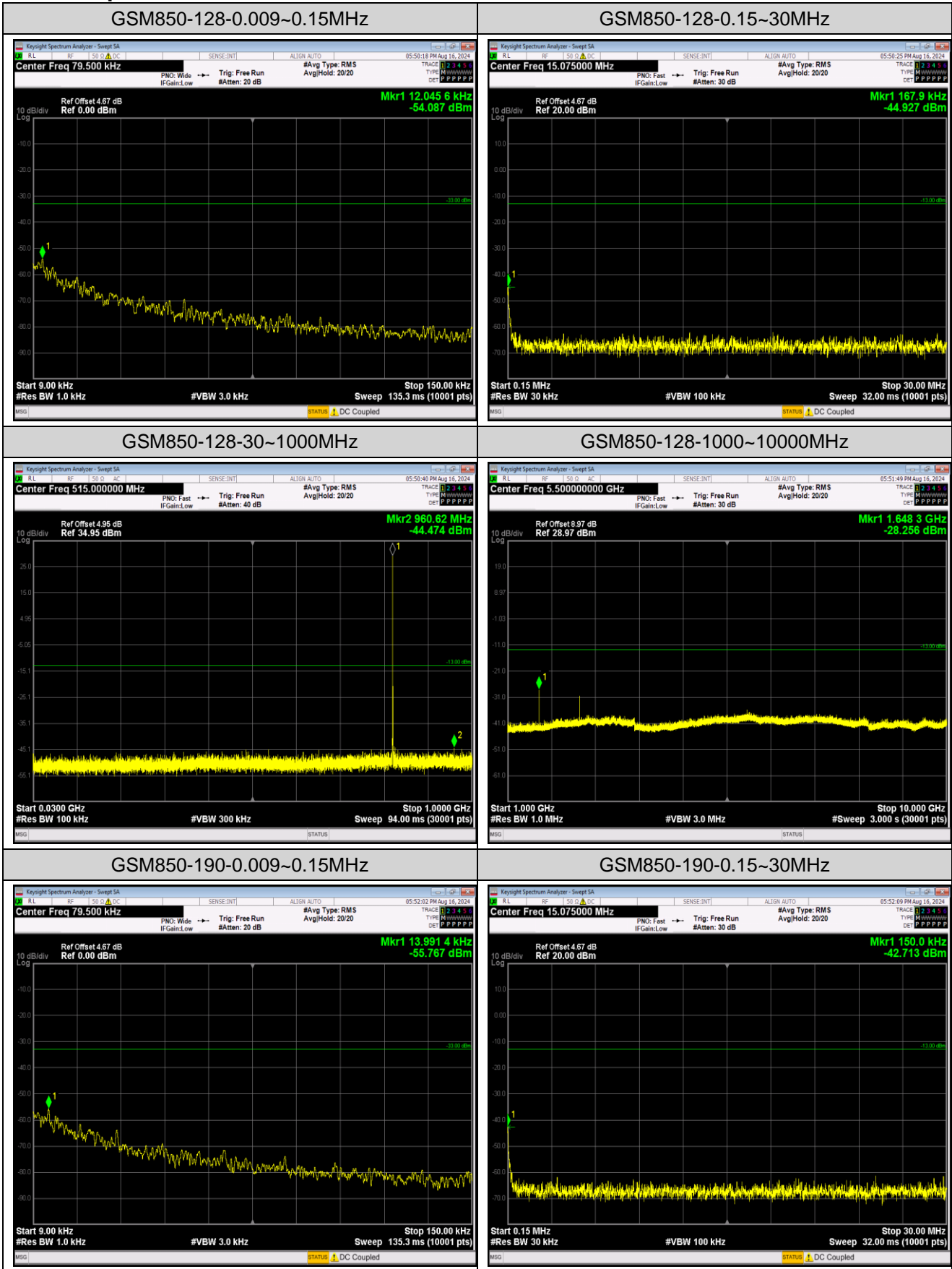
Appendix E: Conducted Spurious Emission

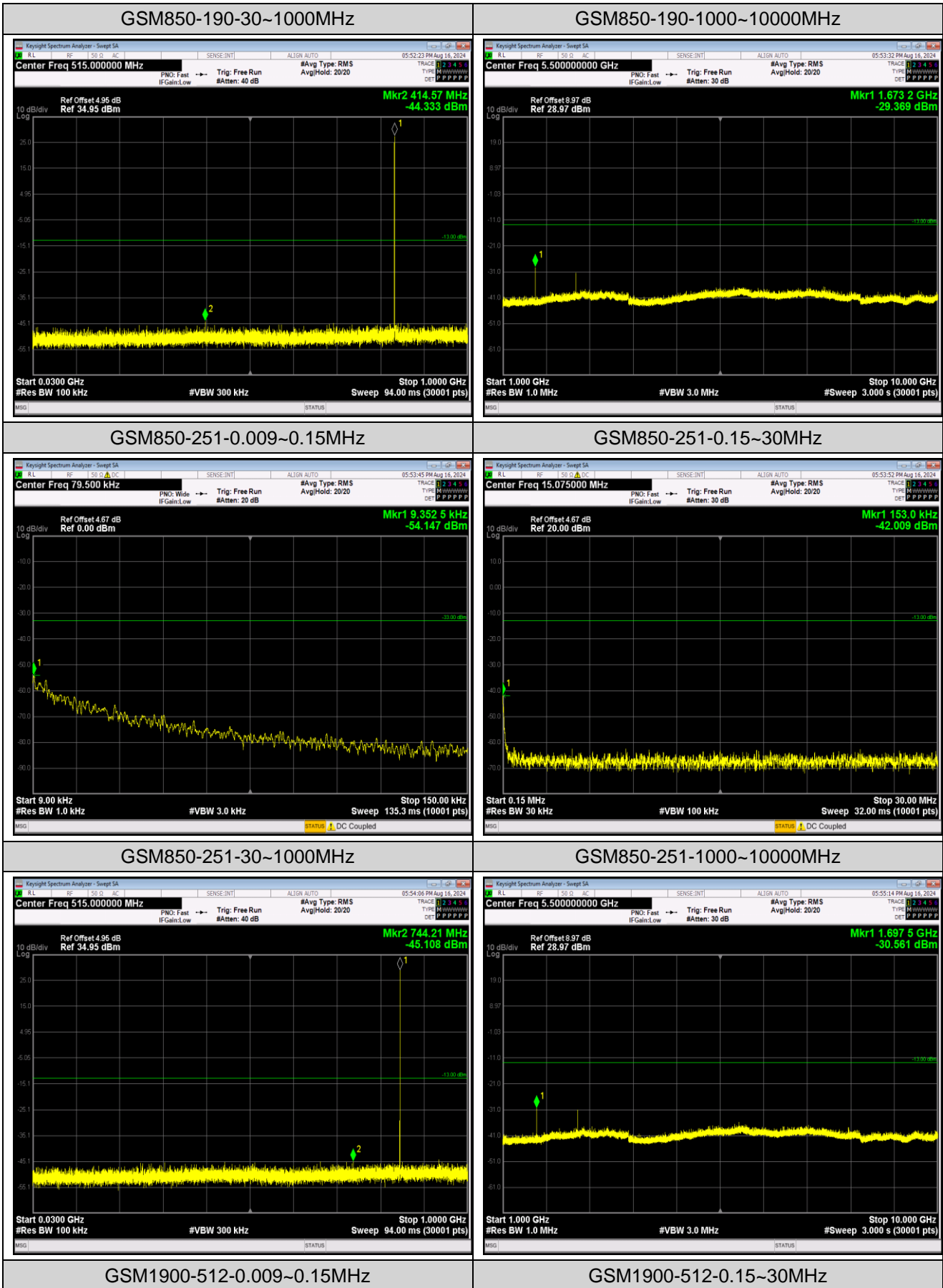
Test Result

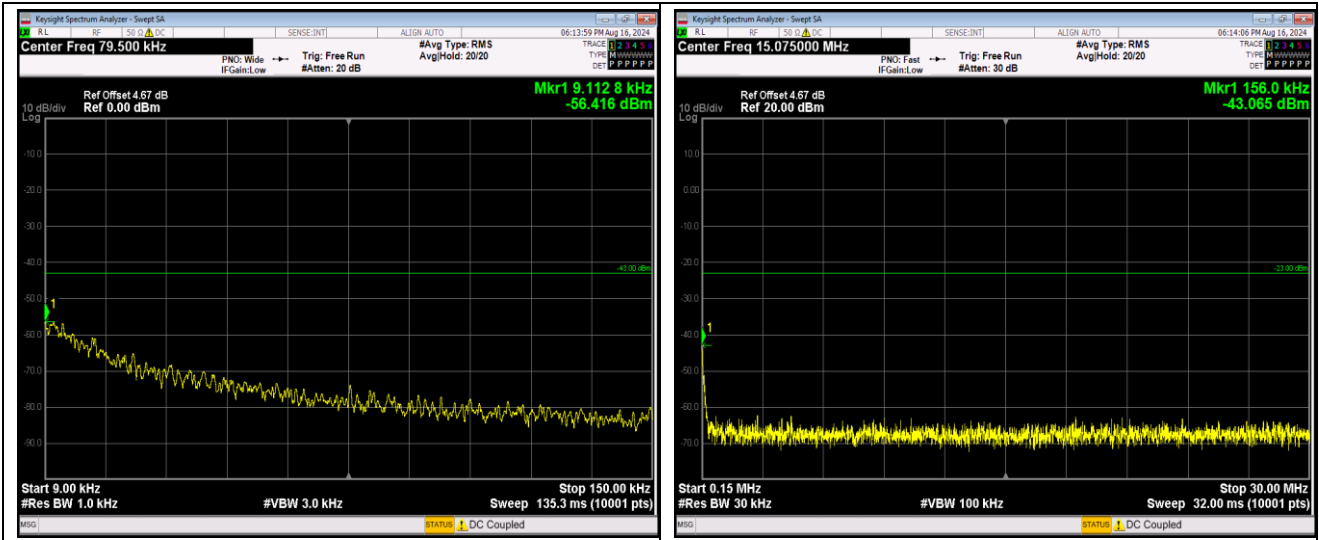
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.09	-33	PASS
GSM850	128	5	0.15~30MHz	0.17	-44.93	-13	PASS
GSM850	128	5	30~1000MHz	960.62	-44.47	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-28.26	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.77	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.71	-13	PASS
GSM850	190	5	30~1000MHz	414.57	-44.33	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-29.37	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.15	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.01	-13	PASS
GSM850	251	5	30~1000MHz	744.21	-45.11	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-30.56	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.42	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-43.07	-23	PASS
GSM1900	512	0	30~1000MHz	776.84	-46.15	-13	PASS
GSM1900	512	0	1000~18000MHz	16994.17	-22.09	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.03	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.13	-23	PASS
GSM1900	661	0	30~1000MHz	935.95	-45.54	-13	PASS
GSM1900	661	0	1000~18000MHz	16991.9	-22.08	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-53.65	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-42.61	-23	PASS
GSM1900	810	0	30~1000MHz	968.35	-45.53	-13	PASS
GSM1900	810	0	1000~18000MHz	16204.23	-22.59	-13	PASS

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

Test Graphs

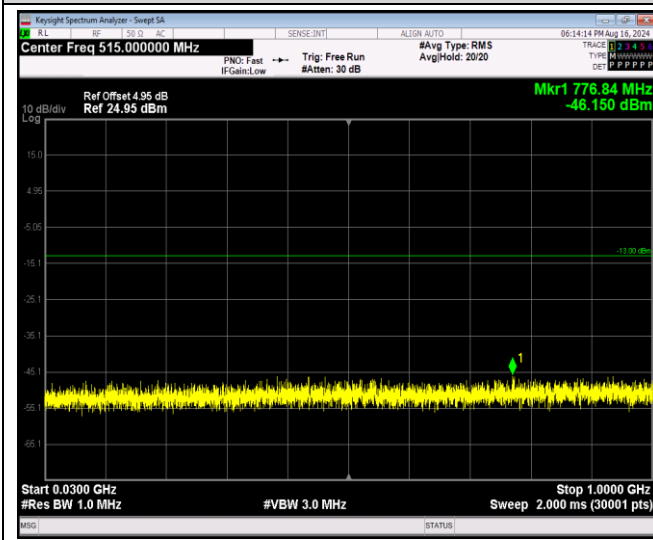




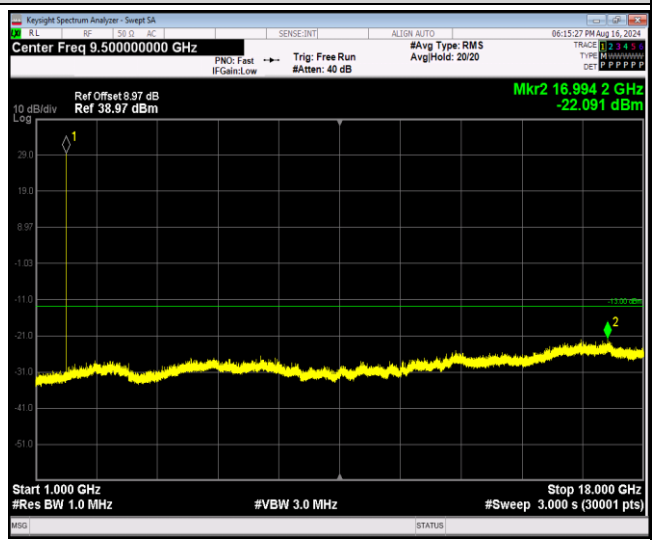


GSM1900-512-30~1000MHz

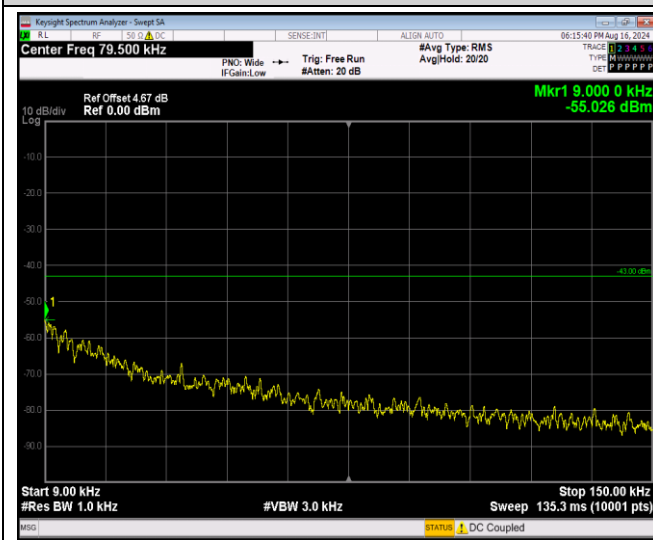
GSM1900-512-1000~18000MHz



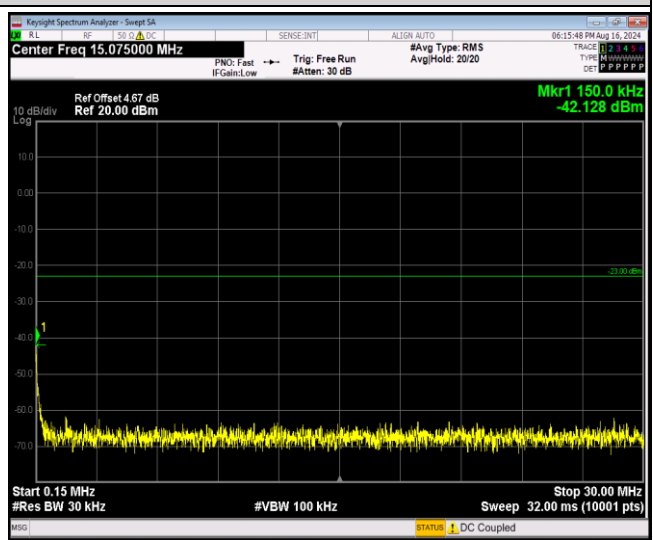
GSM1900-661-0.009~0.15MHz



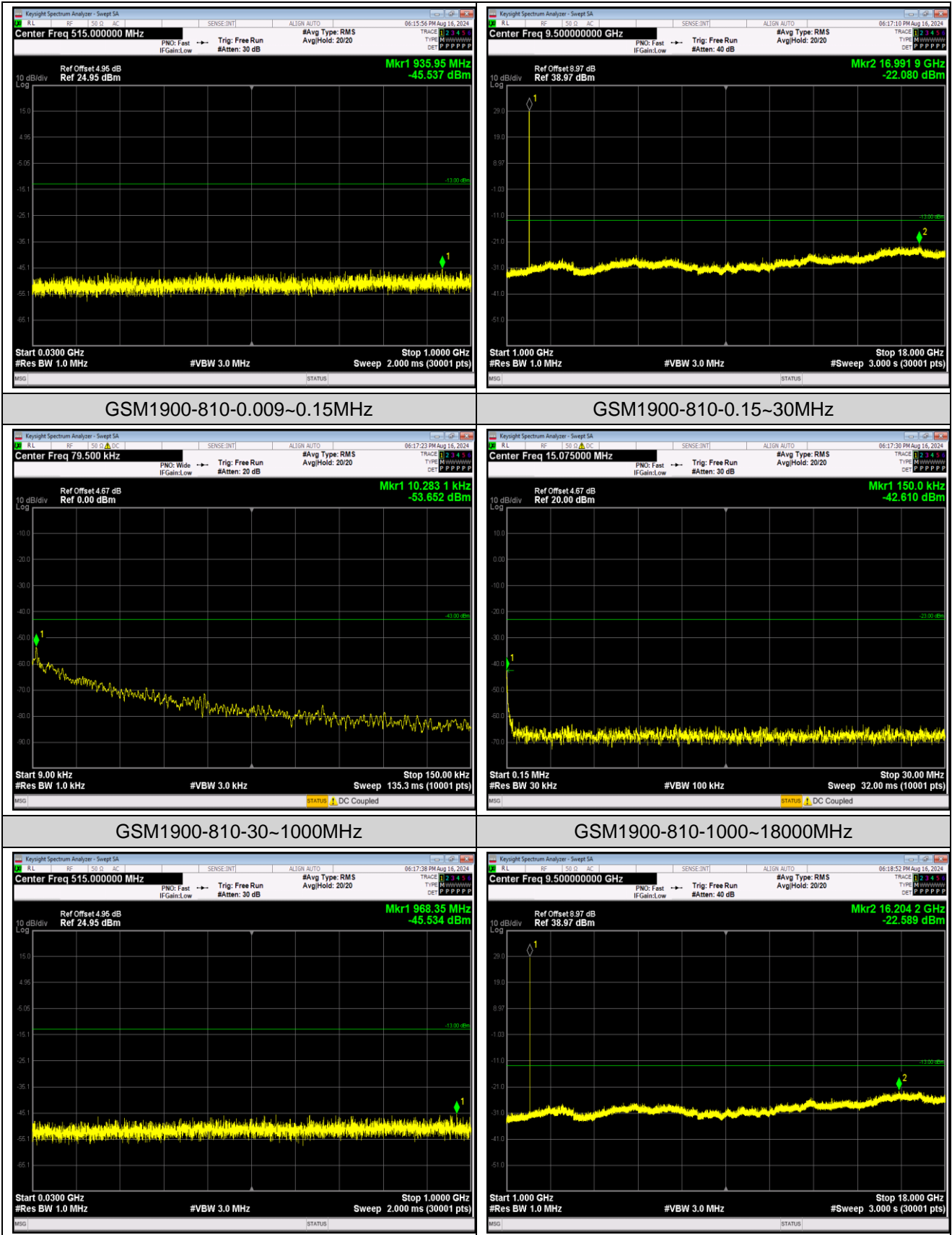
GSM1900-661-0.15~30MHz



GSM1900-661-30~1000MHz



GSM1900-661-1000~18000MHz



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	5.49	0.006562	±2.5	Pass
	-20	9.72	0.011618		
	-10	4.68	0.005594		
	0	4.84	0.005785		
	10	4.68	0.005594		
	20	5.52	0.006598		
	30	9.04	0.010806		
	40	3.75	0.004482		
	50	4.75	0.005678		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	5.62	0.006718	±2.5	Pass
	3.70	5.68	0.006789		
	4.25	4.97	0.005941		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

Reference Frequency: PCS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	25.86	0.013755	Within authorized band for PCS 1900	Pass
	-20	22.60	0.012021		
	-10	24.09	0.012814		
	0	25.80	0.013723		
	10	24.15	0.012846		
	20	17.34	0.009223		
	30	19.79	0.010527		
	40	21.08	0.011213		
	50	25.86	0.013755		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	22.70	0.012074	Within authorized band for PCS 1900	Pass
	3.70	25.86	0.013755		
	4.25	25.22	0.013415		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

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

