

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	3	33.41	31.56	38.5	PASS
GSM850	190	3	33.54	31.69	38.5	PASS
GSM850	251	3	33.49	31.64	38.5	PASS
GSM1900	512	0	29.56	30.46	33	PASS
GSM1900	661	0	29.82	30.72	33	PASS
GSM1900	810	0	29.86	30.76	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	33.17	31.32	38.5	PASS
GPRS850	128	3	2	32.22	30.37	38.5	PASS
GPRS850	128	3	3	29.93	28.08	38.5	PASS
GPRS850	128	3	4	28.60	26.75	38.5	PASS
GPRS850	190	3	1	33.15	31.3	38.5	PASS
GPRS850	190	3	2	32.27	30.42	38.5	PASS
GPRS850	190	3	3	30.06	28.21	38.5	PASS
GPRS850	190	3	4	28.74	26.89	38.5	PASS
GPRS850	251	3	1	33.06	31.21	38.5	PASS
GPRS850	251	3	2	32.16	30.31	38.5	PASS
GPRS850	251	3	3	29.93	28.08	38.5	PASS
GPRS850	251	3	4	28.60	26.75	38.5	PASS
GPRS1900	512	0	1	29.60	30.5	33	PASS
GPRS1900	512	0	2	28.62	29.52	33	PASS
GPRS1900	512	0	3	26.59	27.49	33	PASS
GPRS1900	512	0	4	25.37	26.27	33	PASS
GPRS1900	661	0	1	29.71	30.61	33	PASS
GPRS1900	661	0	2	28.82	29.72	33	PASS
GPRS1900	661	0	3	26.74	27.64	33	PASS
GPRS1900	661	0	4	25.48	26.38	33	PASS
GPRS1900	810	0	1	29.70	30.6	33	PASS
GPRS1900	810	0	2	28.80	29.7	33	PASS
GPRS1900	810	0	3	26.67	27.57	33	PASS
GPRS1900	810	0	4	25.41	26.31	33	PASS

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

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

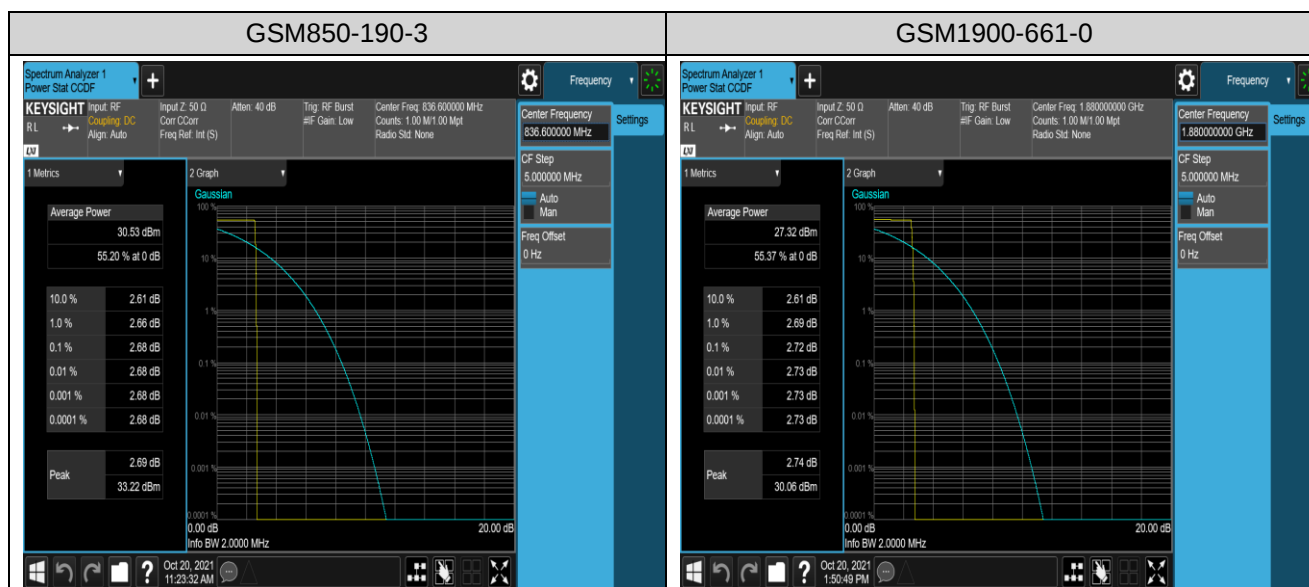
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.68	13	PASS
GSM1900	661	0	2.72	13	PASS

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

Test Graphs

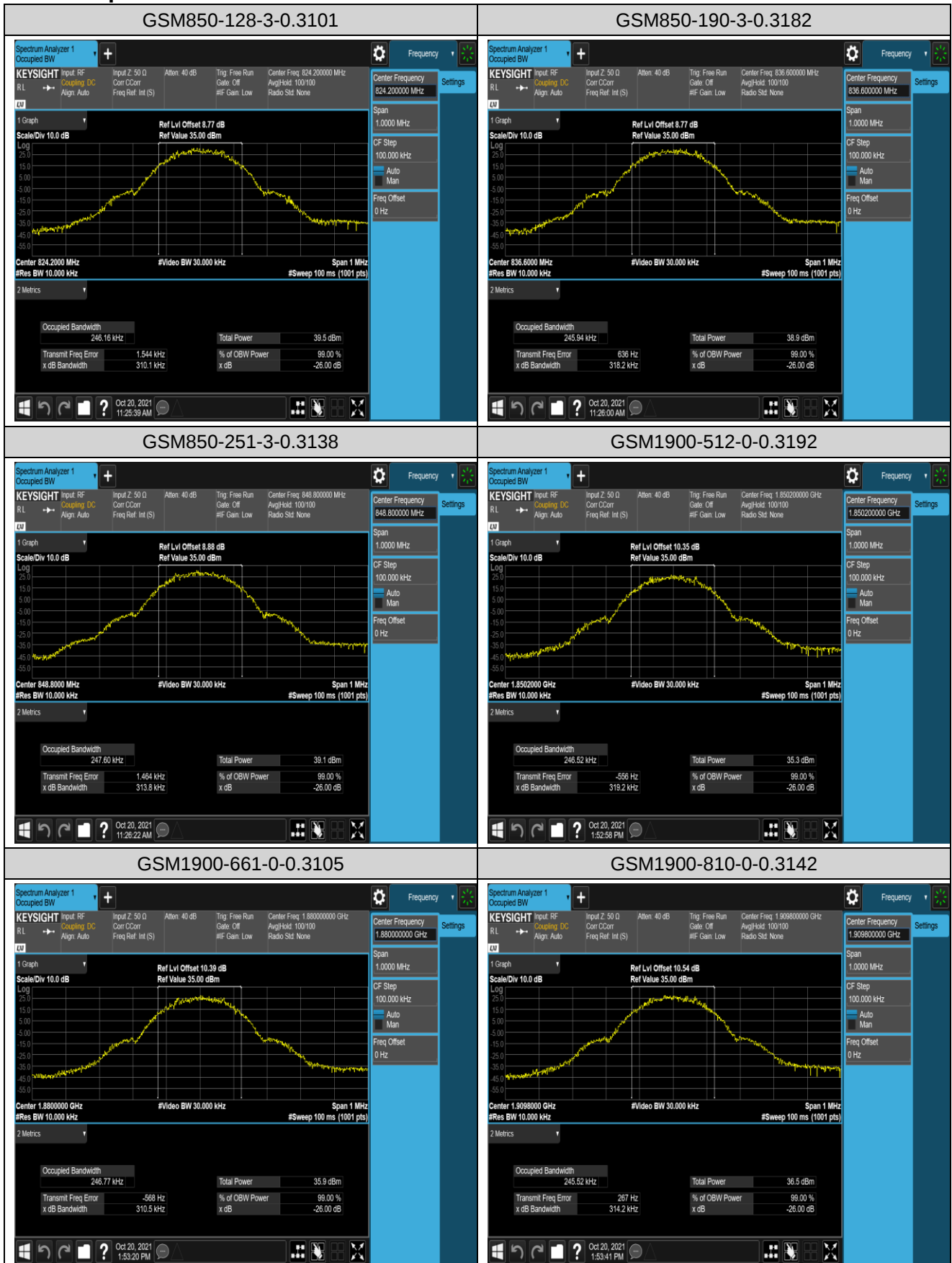


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24616	0.3101	---	PASS
GSM850	190	3	0.24594	0.3182	---	PASS
GSM850	251	3	0.24760	0.3138	---	PASS
GSM1900	512	0	0.24652	0.3192	---	PASS
GSM1900	661	0	0.24677	0.3105	---	PASS
GSM1900	810	0	0.24552	0.3142	---	PASS

Test Graphs

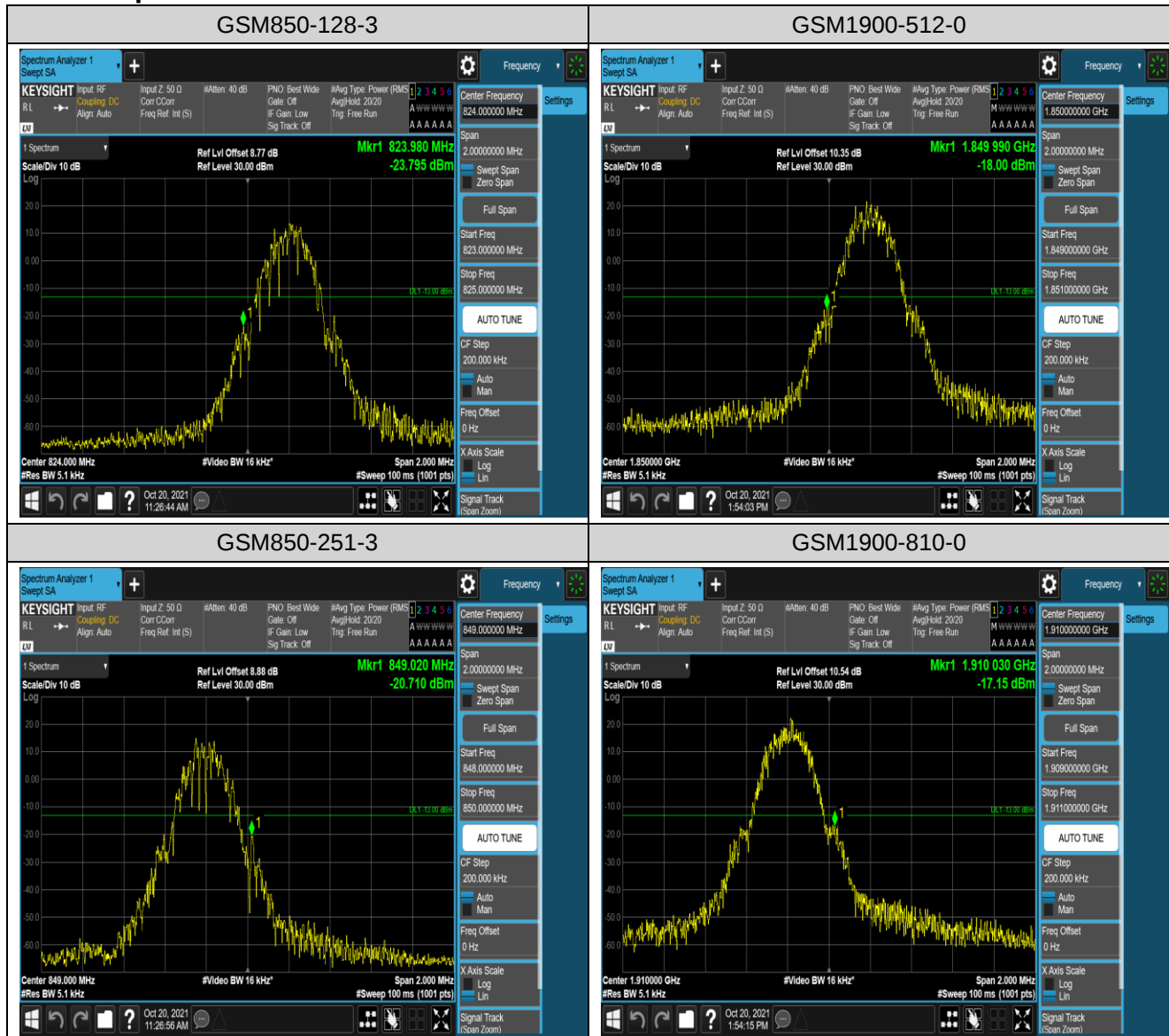


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.98	-23.80	-13	PASS
GSM850	251	3	849.02	-20.48	-13	PASS
GSM1900	512	0	1849.99	-16.62	-13	PASS
GSM1900	810	0	1910.03	-15.90	-13	PASS

Test Graphs



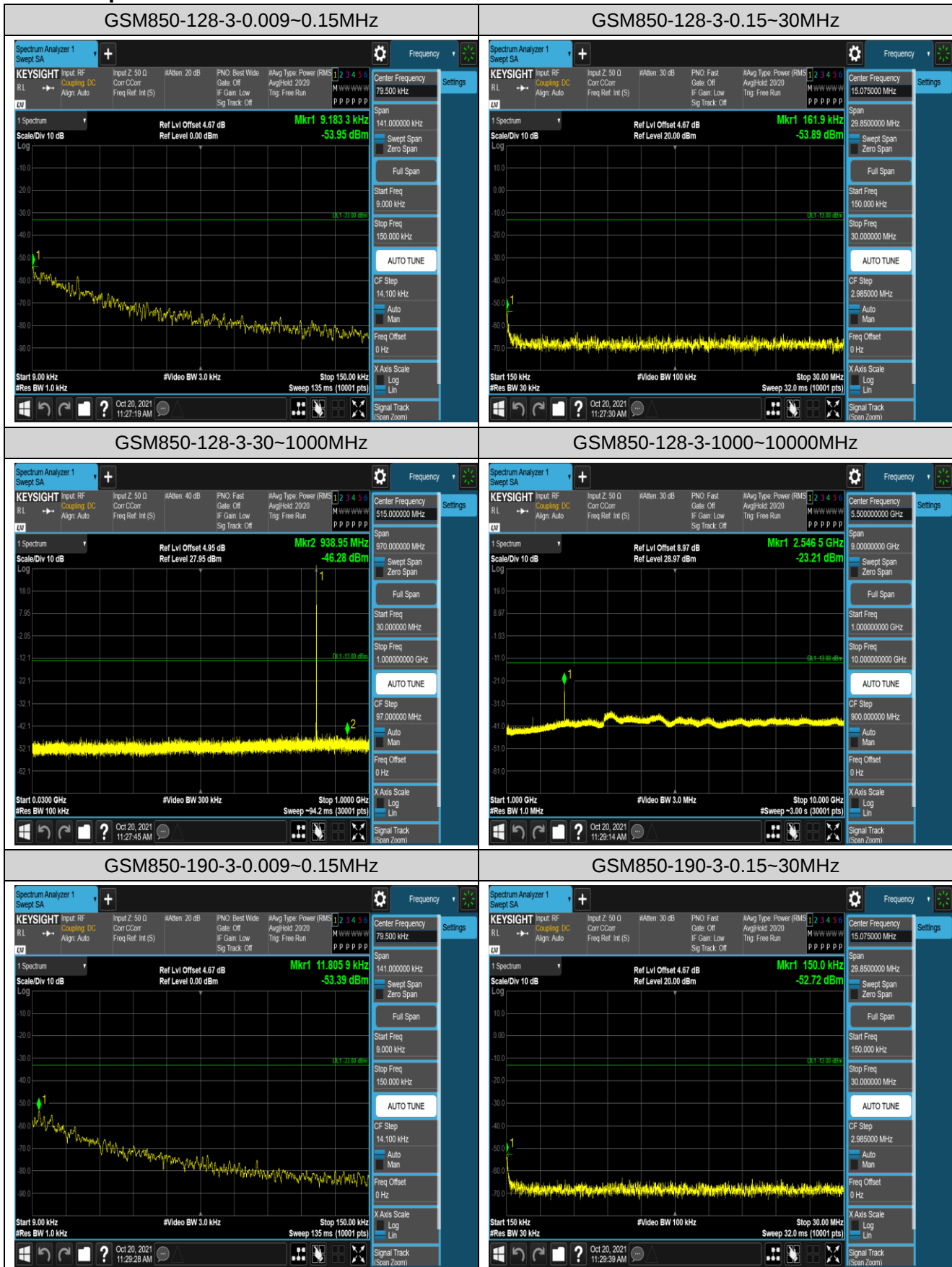
Appendix E: Conducted Spurious Emission

Test Result

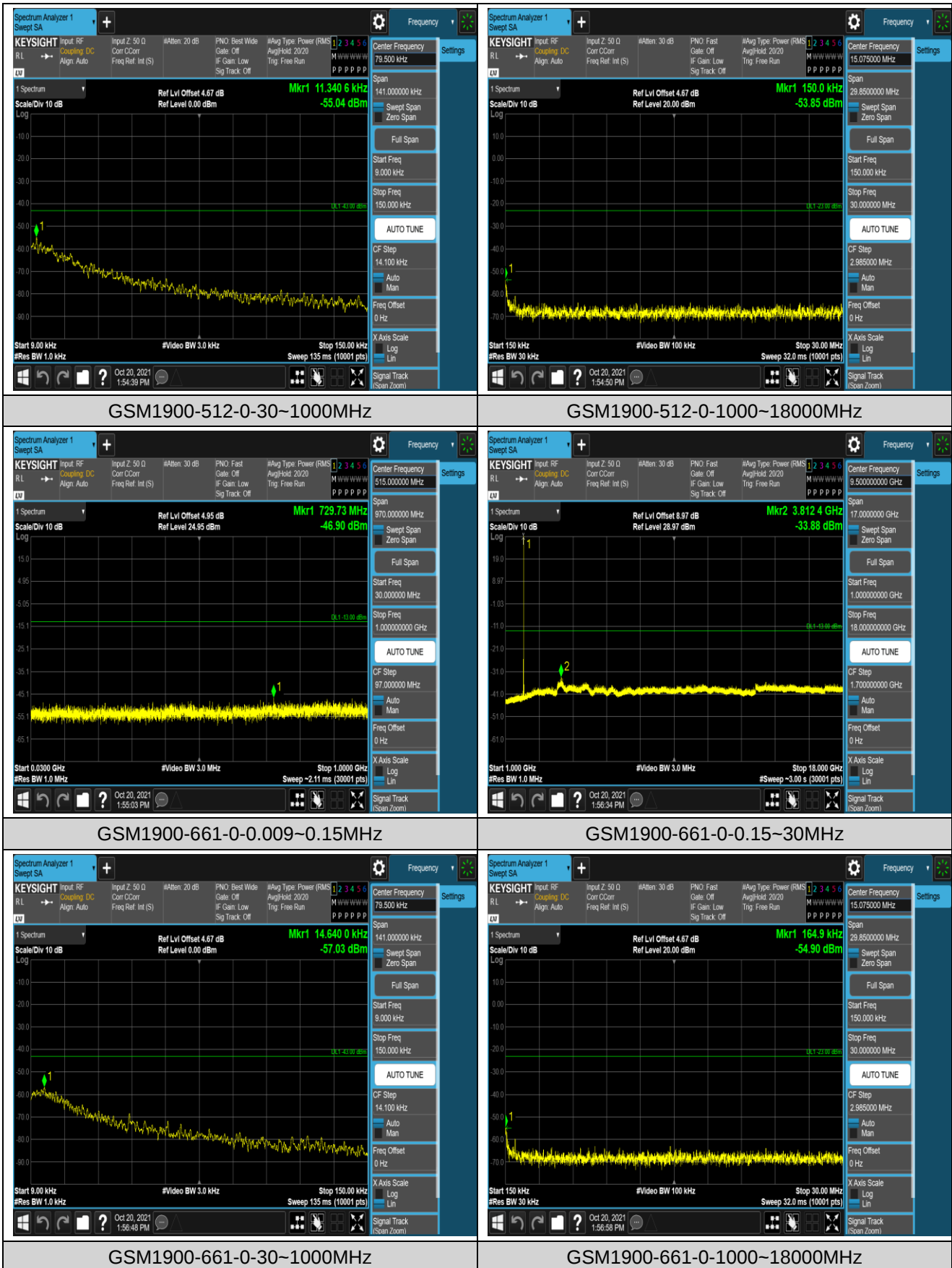
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-53.95	-33	PASS
GSM850	128	3	0.15~30MHz	0.16	-53.89	-13	PASS
GSM850	128	3	30~1000MHz	938.95	-46.28	-13	PASS
GSM850	128	3	1000~10000MHz	2546.5	-23.21	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-53.39	-33	PASS
GSM850	190	3	0.15~30MHz	0.15	-52.72	-13	PASS
GSM850	190	3	30~1000MHz	414.35	-45.54	-13	PASS
GSM850	190	3	1000~10000MHz	2546.5	-23.29	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-56.42	-33	PASS
GSM850	251	3	0.15~30MHz	0.15	-49.83	-13	PASS
GSM850	251	3	30~1000MHz	428.61	-46.12	-13	PASS
GSM850	251	3	1000~10000MHz	2546.8	-24.03	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.04	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-53.85	-23	PASS
GSM1900	512	0	30~1000MHz	729.73	-46.9	-13	PASS
GSM1900	512	0	1000~18000MHz	3812.37	-33.88	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-57.03	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-54.9	-23	PASS
GSM1900	661	0	30~1000MHz	867.56	-46.87	-13	PASS
GSM1900	661	0	1000~18000MHz	3798.77	-34.26	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.4	-43	PASS
GSM1900	810	0	0.15~30MHz	0.17	-53.71	-23	PASS
GSM1900	810	0	30~1000MHz	778.55	-46.64	-13	PASS
GSM1900	810	0	1000~18000MHz	3772.7	-34.74	-13	PASS

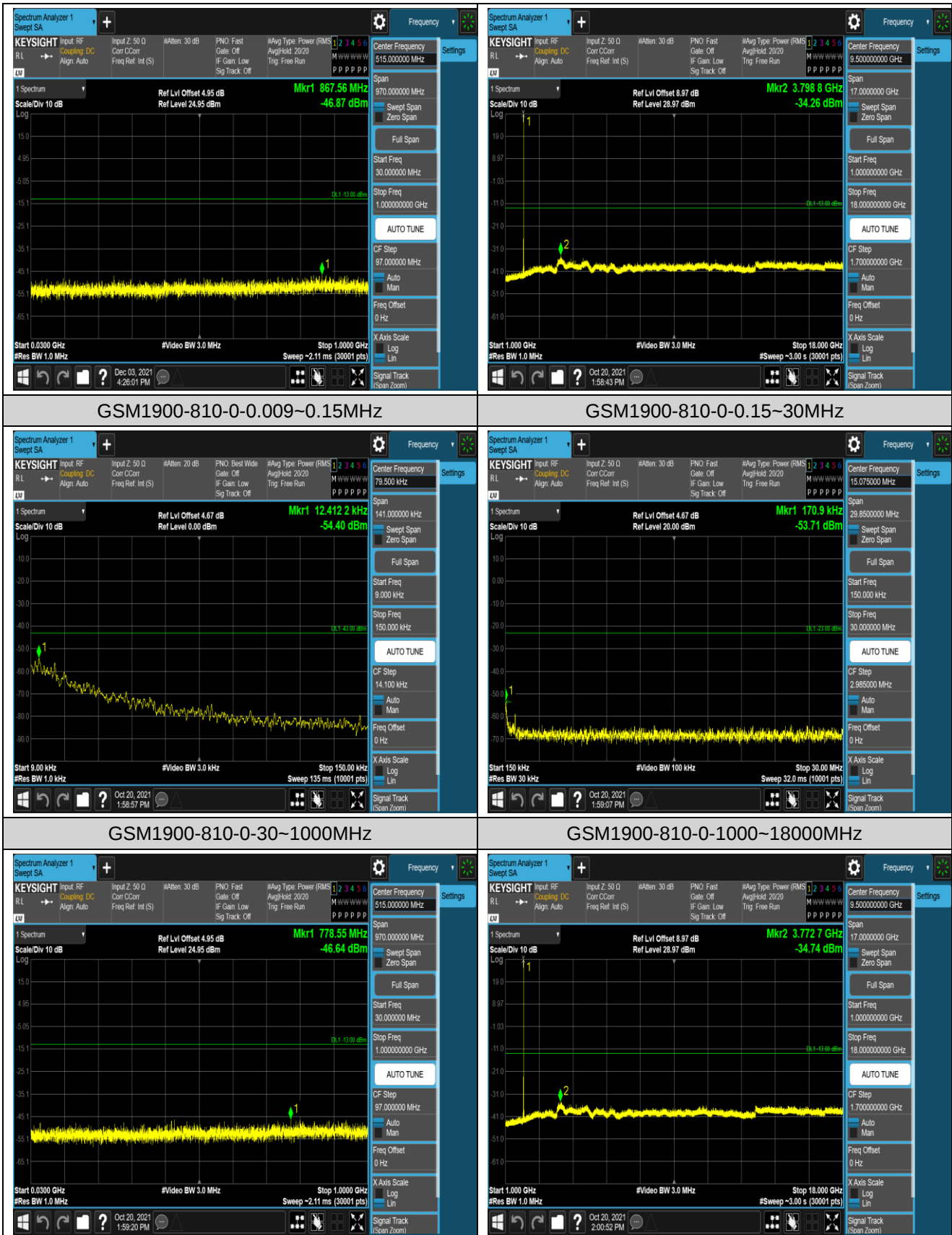
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









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		
3.85	-30	6.46	0.007722	±2.5	Pass
	-20	7.20	0.008606		
	-10	9.69	0.011583		
	0	6.88	0.008224		
	10	6.17	0.007375		
	20	6.84	0.008176		
	30	7.33	0.008762		
	40	6.65	0.007949		
	50	5.49	0.006562		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	4.13	0.004937	±2.5	Pass
	3.85	9.75	0.011654		
	4.40	6.04	0.007220		
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		
3.85	-30	1.94	0.001032	Within authorized band for PCS 1900	Pass
	-20	0.23	0.000122		
	-10	0.55	0.000293		
	0	9.69	0.005154		
	10	2.20	0.001170		
	20	7.26	0.003862		
	30	5.10	0.002713		
	40	15.66	0.008330		
	50	15.11	0.008037		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	6.13	0.003261	Within authorized band for PCS 1900	Pass
	3.85	19.69	0.010473		
	4.40	-2.00	-0.001064		
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

