

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	33.73	30.48	38.45	PASS
GSM850	190	5	33.65	30.4	38.45	PASS
GSM850	251	5	33.70	30.45	38.45	PASS
GSM1900	512	0	29.99	29.38	33.00	PASS
GSM1900	661	0	30.14	29.53	33.00	PASS
GSM1900	810	0	30.06	29.45	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.71	30.46	38.45	PASS
GPRS850	128	5	2	31.42	28.17	38.45	PASS
GPRS850	128	5	3	29.63	26.38	38.45	PASS
GPRS850	128	5	4	27.76	24.51	38.45	PASS
GPRS850	190	5	1	33.65	30.4	38.45	PASS
GPRS850	190	5	2	31.49	28.24	38.45	PASS
GPRS850	190	5	3	29.74	26.49	38.45	PASS
GPRS850	190	5	4	27.88	24.63	38.45	PASS
GPRS850	251	5	1	33.71	30.46	38.45	PASS
GPRS850	251	5	2	31.41	28.16	38.45	PASS
GPRS850	251	5	3	29.62	26.37	38.45	PASS
GPRS850	251	5	4	27.73	24.48	38.45	PASS
GPRS1900	512	0	1	29.98	29.37	33.00	PASS
GPRS1900	512	0	2	27.94	27.33	33.00	PASS
GPRS1900	512	0	3	26.36	25.75	33.00	PASS
GPRS1900	512	0	4	24.41	23.8	33.00	PASS
GPRS1900	661	0	1	30.18	29.57	33.00	PASS
GPRS1900	661	0	2	28.00	27.39	33.00	PASS
GPRS1900	661	0	3	26.41	25.8	33.00	PASS
GPRS1900	661	0	4	24.45	23.84	33.00	PASS
GPRS1900	810	0	1	30.09	29.48	33.00	PASS
GPRS1900	810	0	2	27.86	27.25	33.00	PASS
GPRS1900	810	0	3	26.26	25.65	33.00	PASS
GPRS1900	810	0	4	24.29	23.68	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)

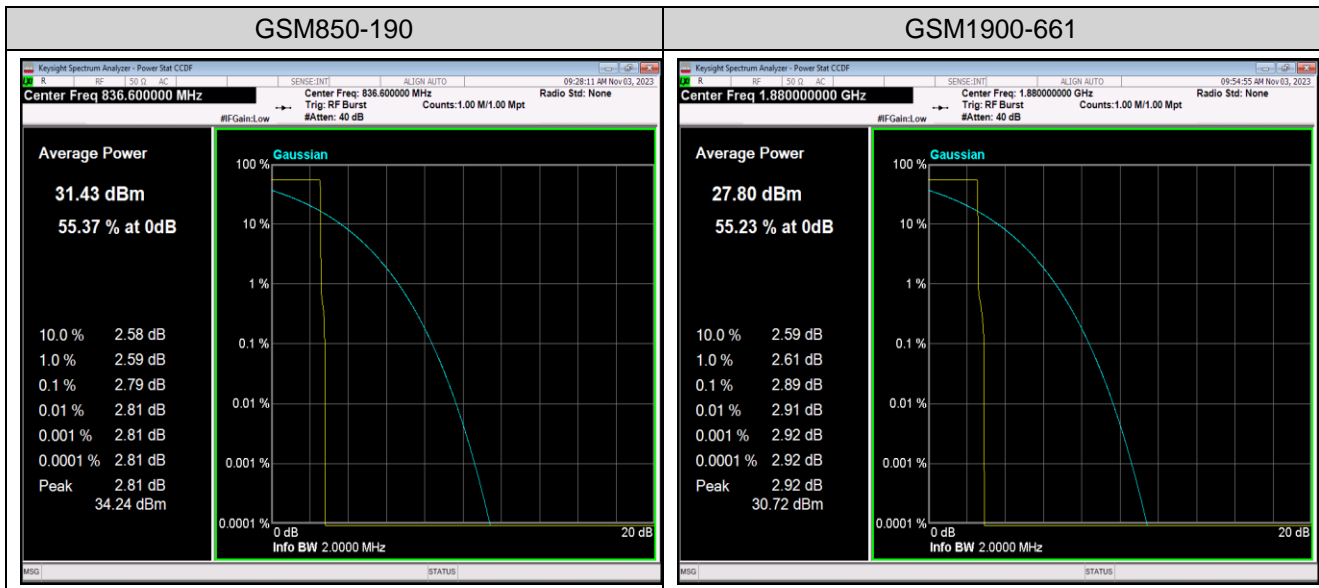
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.79	13	PASS
GSM1900	661	0	2.89	13	PASS

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

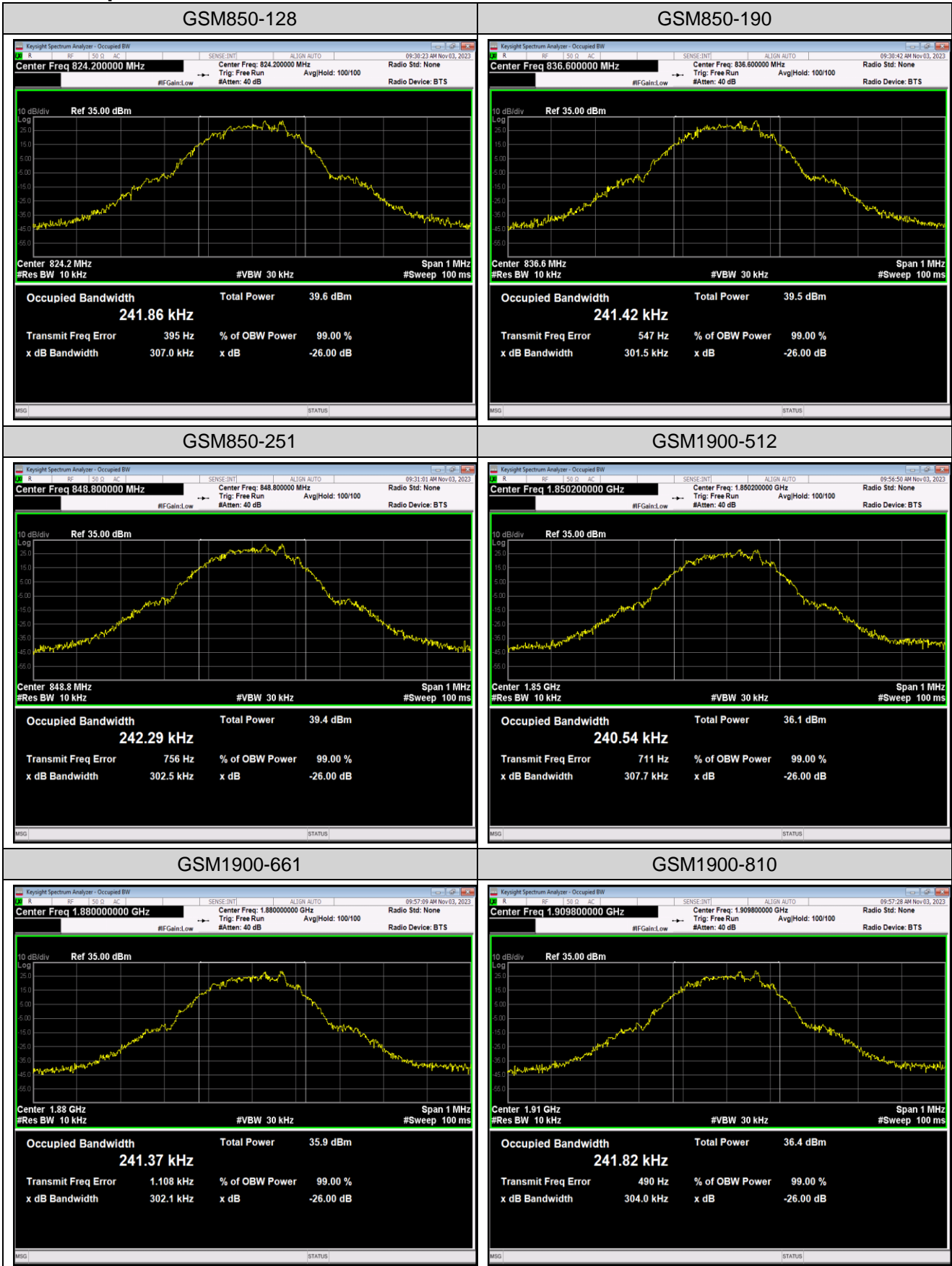
Test Graphs



Appendix C: 26dB Bandwidth and Occupied Bandwidth**Test Result**

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24186	0.3070	---	PASS
GSM850	190	5	0.24142	0.3015	---	PASS
GSM850	251	5	0.24229	0.3025	---	PASS
GSM1900	512	0	0.24054	0.3077	---	PASS
GSM1900	661	0	0.24137	0.3021	---	PASS
GSM1900	810	0	0.24182	0.3040	---	PASS

Test Graphs

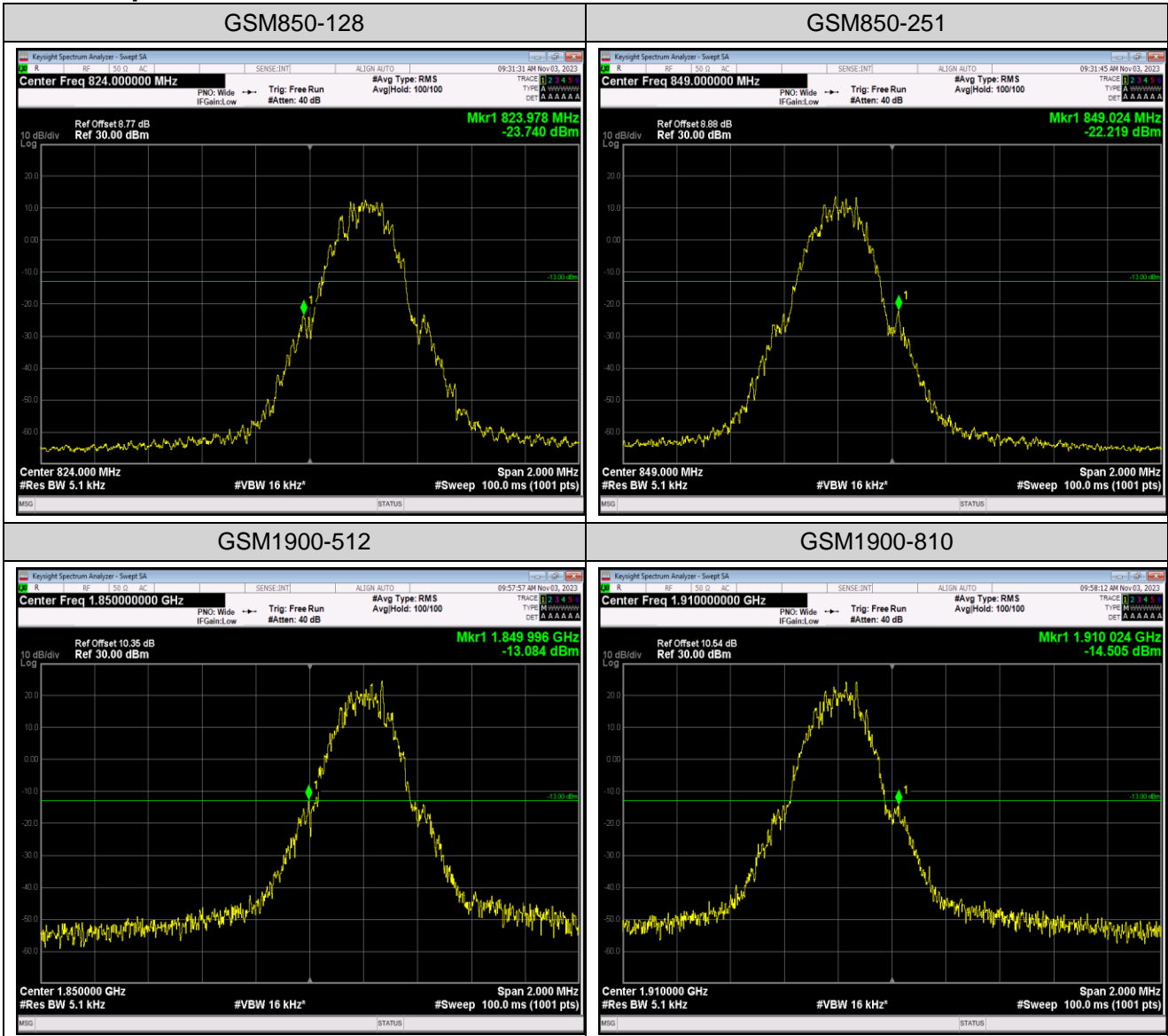


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-23.74	-13	PASS
GSM850	251	5	849.02	-22.22	-13	PASS
GSM1900	512	0	1850.00	-13.08	-13	PASS
GSM1900	810	0	1910.02	-14.51	-13	PASS

Test Graphs



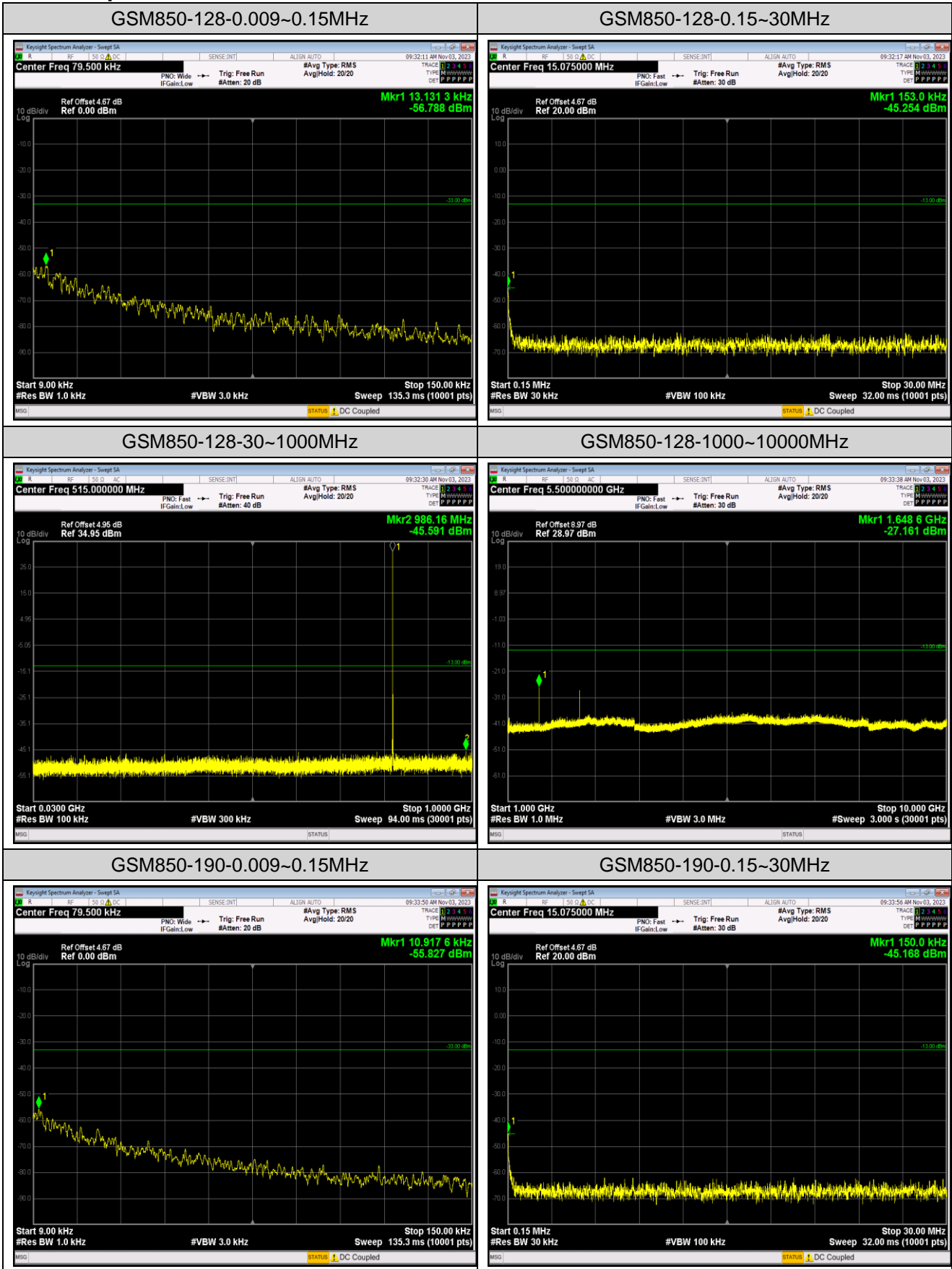
Appendix E: Conducted Spurious Emission

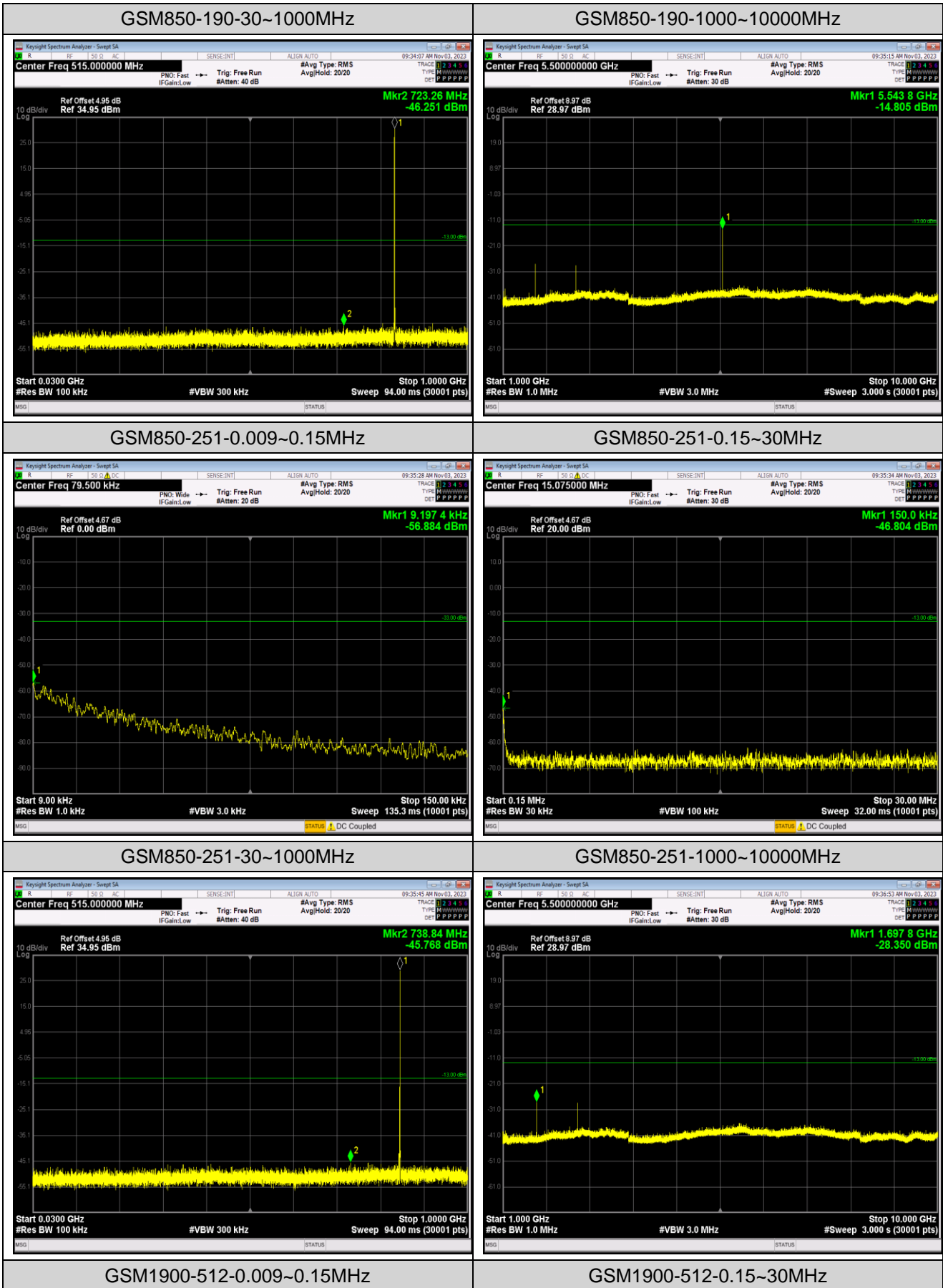
Test Result

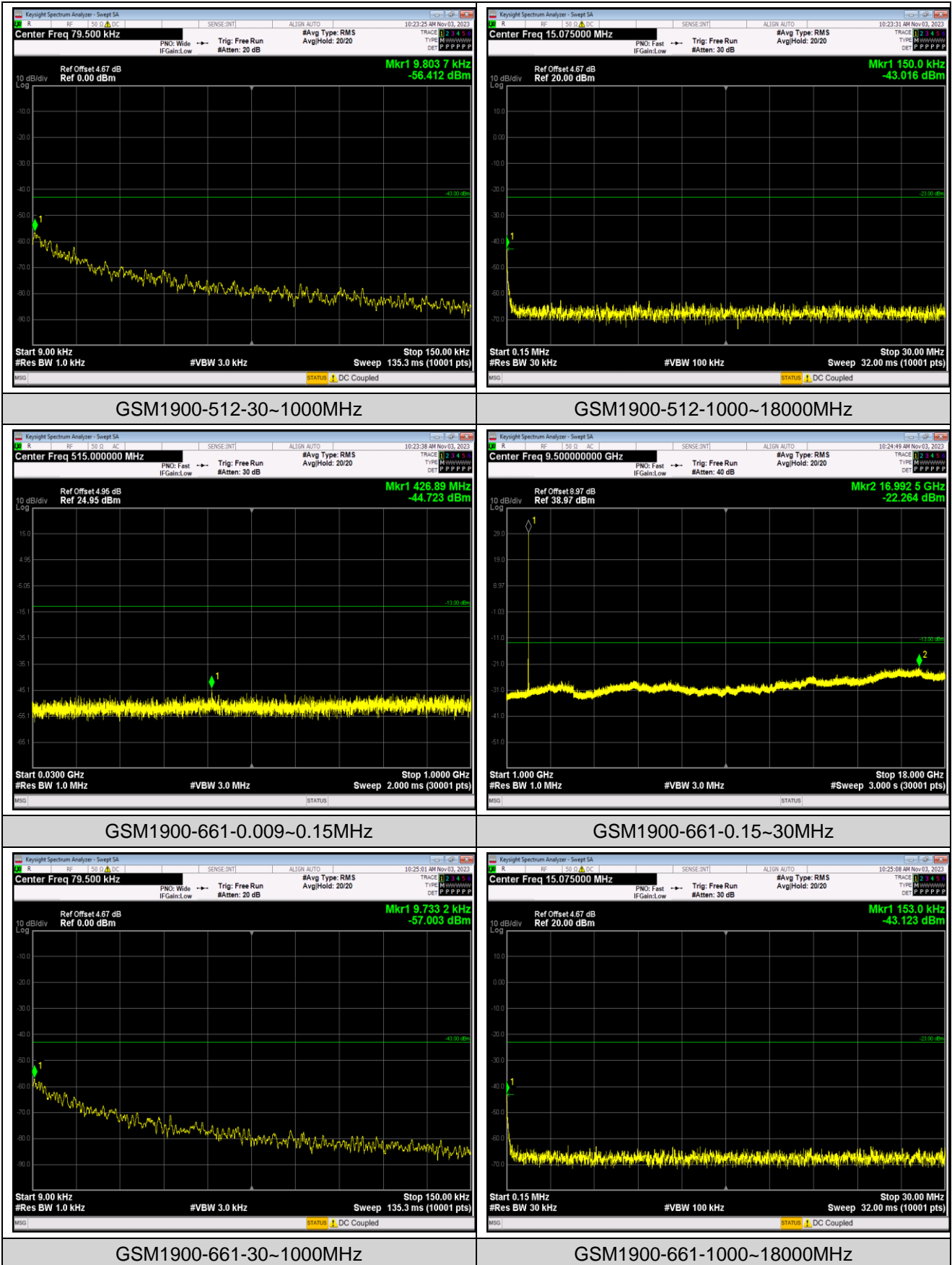
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-56.79	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-45.25	-13	PASS
GSM850	128	5	30~1000MHz	986.16	-45.59	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-27.16	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.83	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-45.17	-13	PASS
GSM850	190	5	30~1000MHz	723.26	-46.25	-13	PASS
GSM850	190	5	1000~10000MHz	5543.8	-14.81	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-56.88	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-46.8	-13	PASS
GSM850	251	5	30~1000MHz	738.84	-45.77	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-28.35	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.41	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-43.02	-23	PASS
GSM1900	512	0	30~1000MHz	426.89	-44.72	-13	PASS
GSM1900	512	0	1000~18000MHz	16992.47	-22.26	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-57	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-43.12	-23	PASS
GSM1900	661	0	30~1000MHz	887.48	-45.94	-13	PASS
GSM1900	661	0	1000~18000MHz	16864.97	-21.95	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-57.02	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-45.84	-23	PASS
GSM1900	810	0	30~1000MHz	859.84	-44.95	-13	PASS
GSM1900	810	0	1000~18000MHz	16187.23	-22.03	-13	PASS

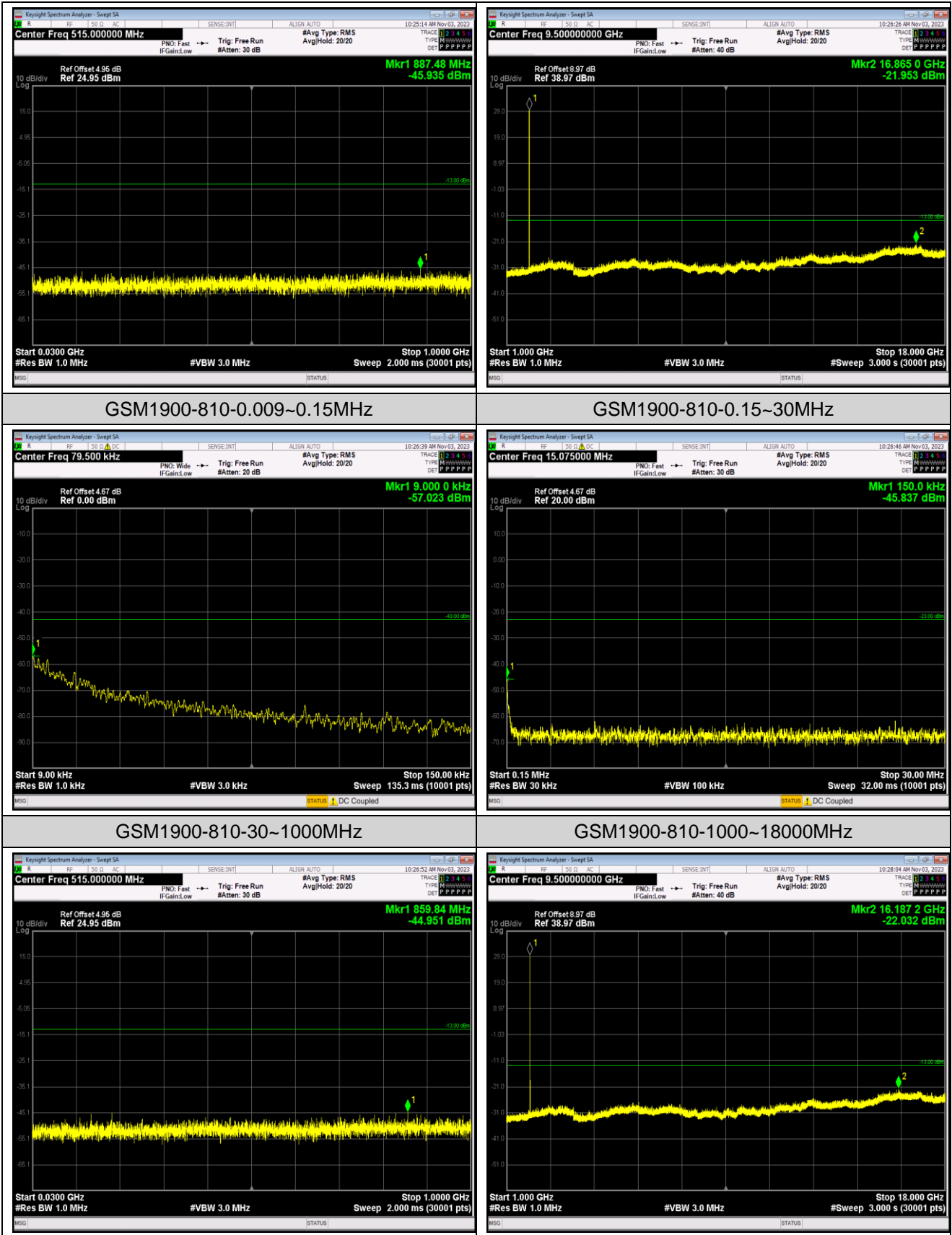
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.70	-30	-10.49	-0.012539	±2.5	Pass
	-20	-11.78	-0.014081		
	-10	-13.04	-0.015587		
	0	-9.85	-0.011774		
	10	-6.91	-0.008260		
	20	-7.39	-0.008833		
	30	-0.52	-0.000622		
	40	-5.29	-0.006323		
	50	1.23	0.001470		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-13.33	-0.015934	±2.5	Pass
	3.70	-11.95	-0.014284		
	4.20	-16.37	-0.019567		
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	-0.81	-0.000431	Within authorized band for PCS 1900	Pass
	-20	1.42	0.000755		
	-10	-2.49	-0.001324		
	0	0.42	0.000223		
	10	-2.94	-0.001564		
	20	-6.07	-0.003229		
	30	0.29	0.000154		
	40	-4.39	-0.002335		
	50	0.06	0.000032		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.52	0.001340	Within authorized band for PCS 1900	Pass
	3.70	4.39	0.002335		
	4.20	3.78	0.002011		
<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

