

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	32.27	30.92	38.45	PASS
GSM850	190	5	32.33	30.98	38.45	PASS
GSM850	251	5	32.23	30.88	38.45	PASS
GSM1900	512	0	28.78	29.88	33.00	PASS
GSM1900	661	0	28.71	29.81	33.00	PASS
GSM1900	810	0	28.75	29.85	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.33	30.98	38.45	PASS
GPRS850	128	5	2	31.73	30.38	38.45	PASS
GPRS850	128	5	3	30.11	28.76	38.45	PASS
GPRS850	128	5	4	28.96	27.61	38.45	PASS
GPRS850	190	5	1	32.37	31.02	38.45	PASS
GPRS850	190	5	2	31.82	30.47	38.45	PASS
GPRS850	190	5	3	30.28	28.93	38.45	PASS
GPRS850	190	5	4	29.18	27.83	38.45	PASS
GPRS850	251	5	1	32.27	30.92	38.45	PASS
GPRS850	251	5	2	31.71	30.36	38.45	PASS
GPRS850	251	5	3	30.13	28.78	38.45	PASS
GPRS850	251	5	4	28.98	27.63	38.45	PASS
GPRS1900	512	0	1	28.84	29.94	33.00	PASS
GPRS1900	512	0	2	28.18	29.28	33.00	PASS
GPRS1900	512	0	3	26.54	27.64	33.00	PASS
GPRS1900	512	0	4	25.38	26.48	33.00	PASS
GPRS1900	661	0	1	28.83	29.93	33.00	PASS
GPRS1900	661	0	2	28.20	29.30	33.00	PASS
GPRS1900	661	0	3	26.55	27.65	33.00	PASS
GPRS1900	661	0	4	25.42	26.52	33.00	PASS
GPRS1900	810	0	1	28.87	29.97	33.00	PASS
GPRS1900	810	0	2	28.28	29.38	33.00	PASS
GPRS1900	810	0	3	26.71	27.81	33.00	PASS
GPRS1900	810	0	4	25.61	26.71	33.00	PASS

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

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

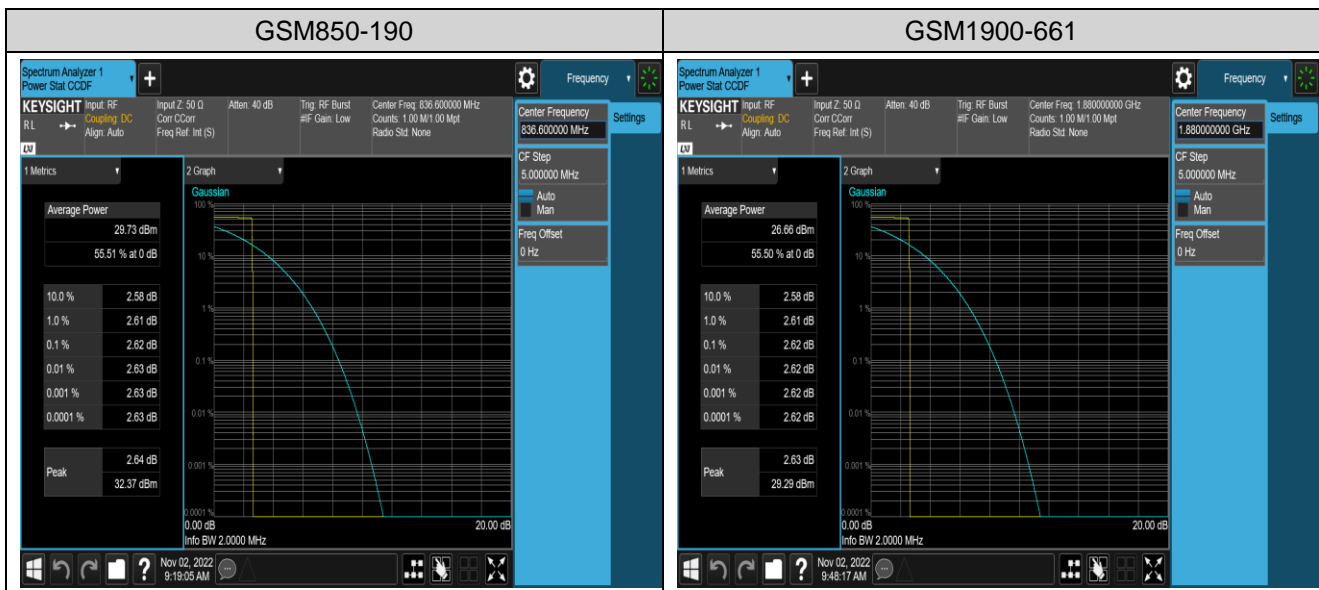
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.62	13	PASS
GSM1900	661	0	2.62	13	PASS

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

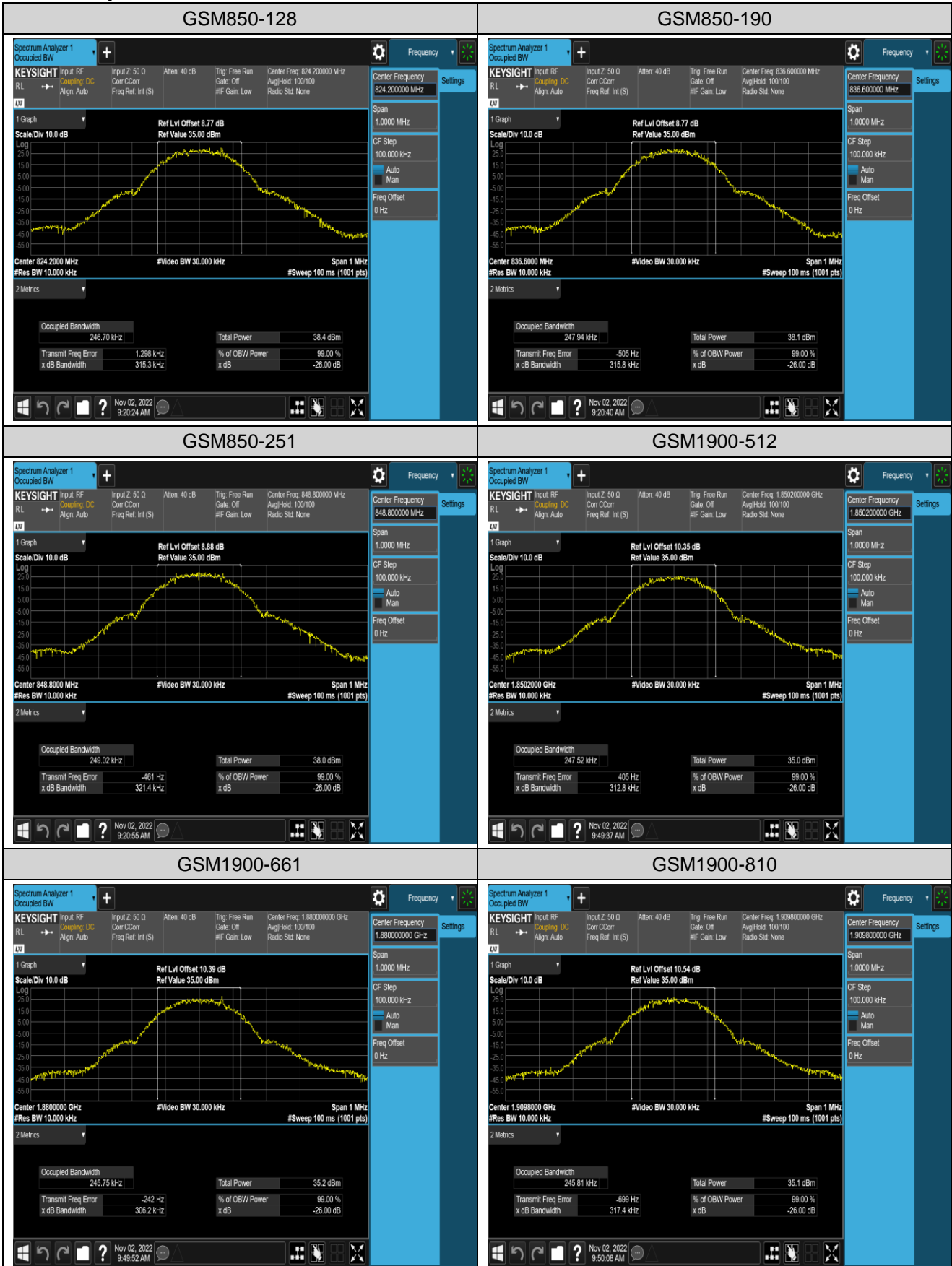
Test Graphs



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

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24670	0.3153	---	PASS
GSM850	190	5	0.24794	0.3158	---	PASS
GSM850	251	5	0.24902	0.3214	---	PASS
GSM1900	512	0	0.24752	0.3128	---	PASS
GSM1900	661	0	0.24575	0.3062	---	PASS
GSM1900	810	0	0.24581	0.3174	---	PASS

Test Graphs

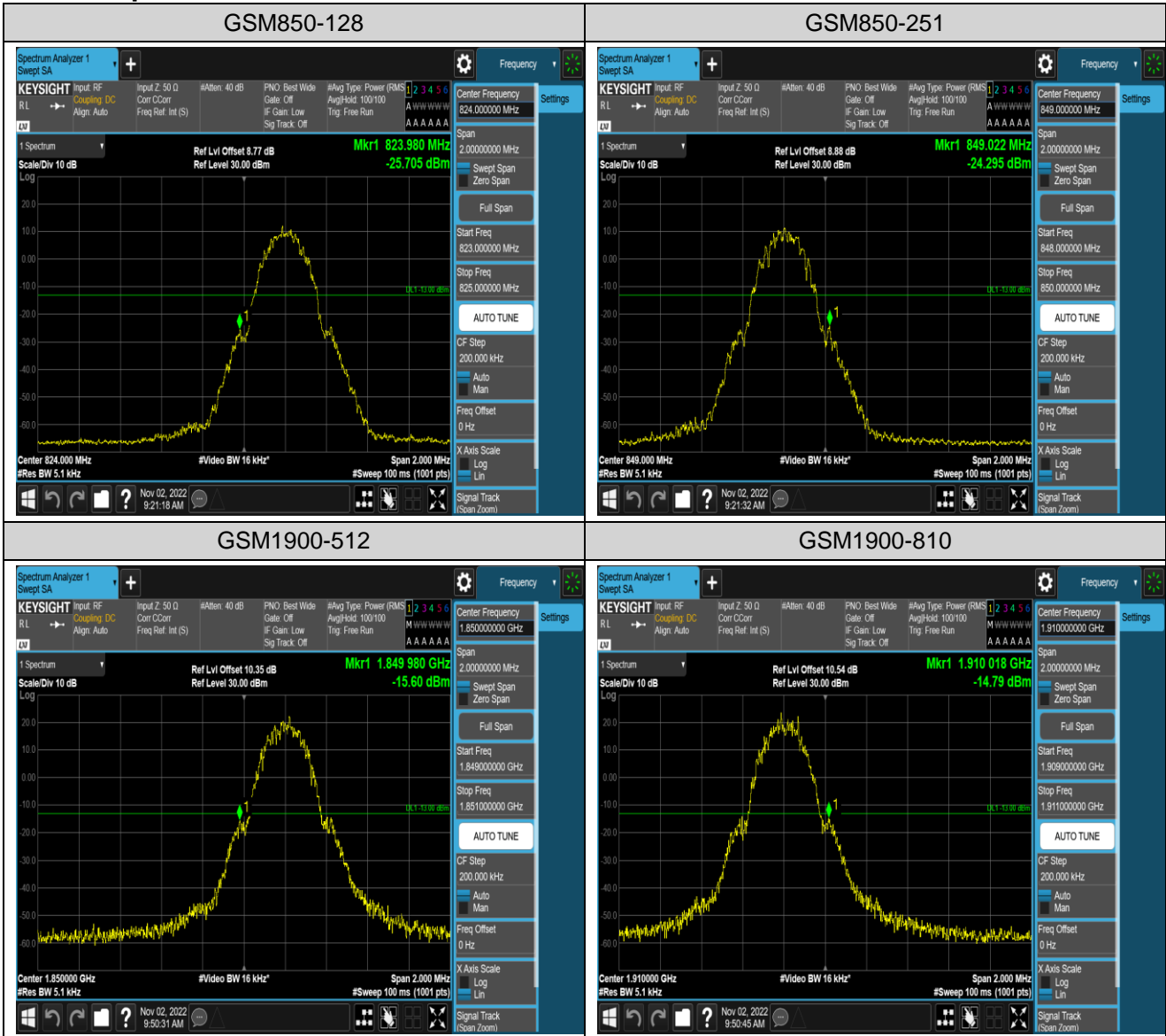


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-25.71	-13	PASS
GSM850	251	5	849.02	-24.30	-13	PASS
GSM1900	512	0	1849.98	-15.60	-13	PASS
GSM1900	810	0	1910.02	-14.79	-13	PASS

Test Graphs



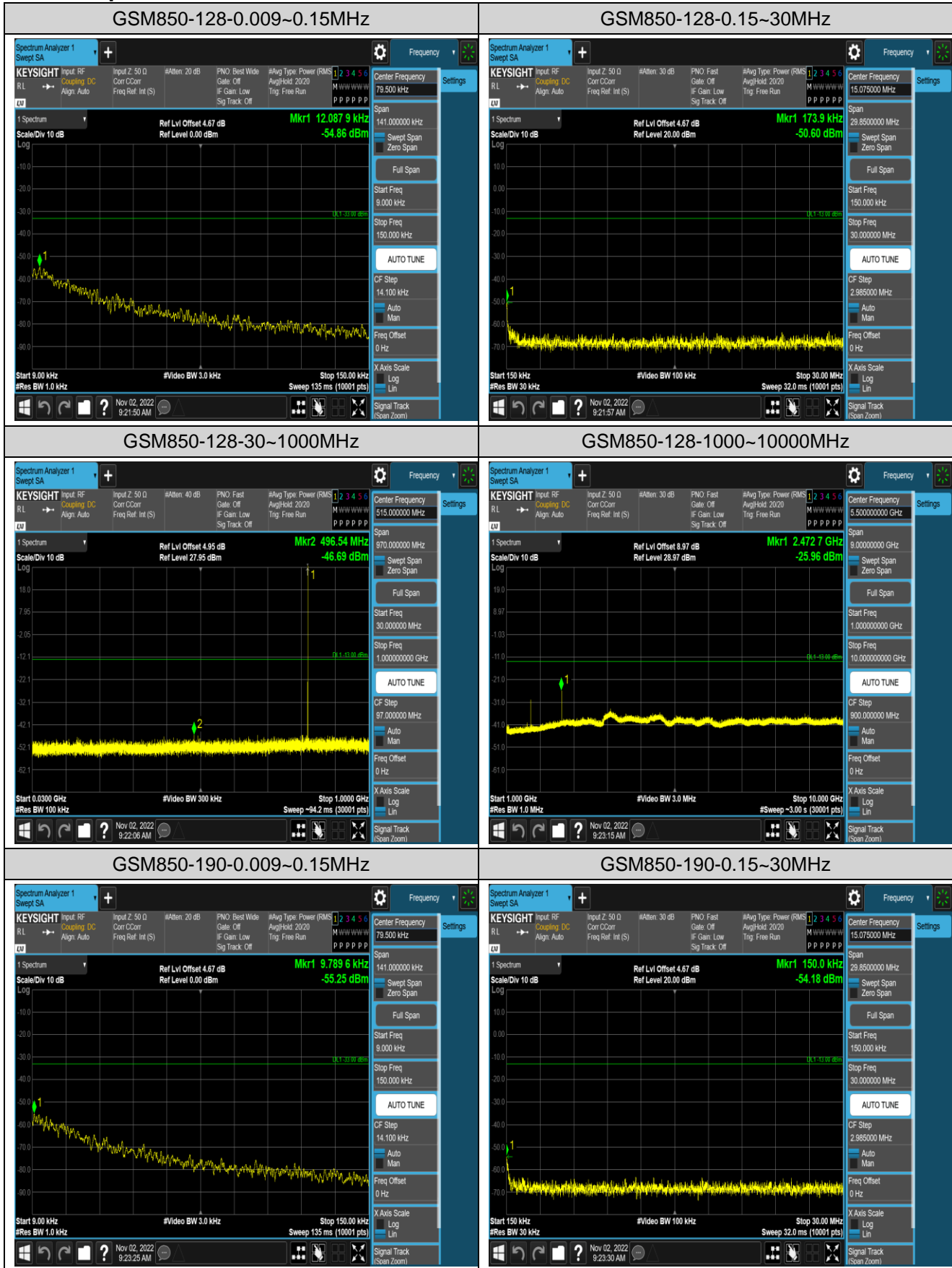
Appendix E: Conducted Spurious Emission

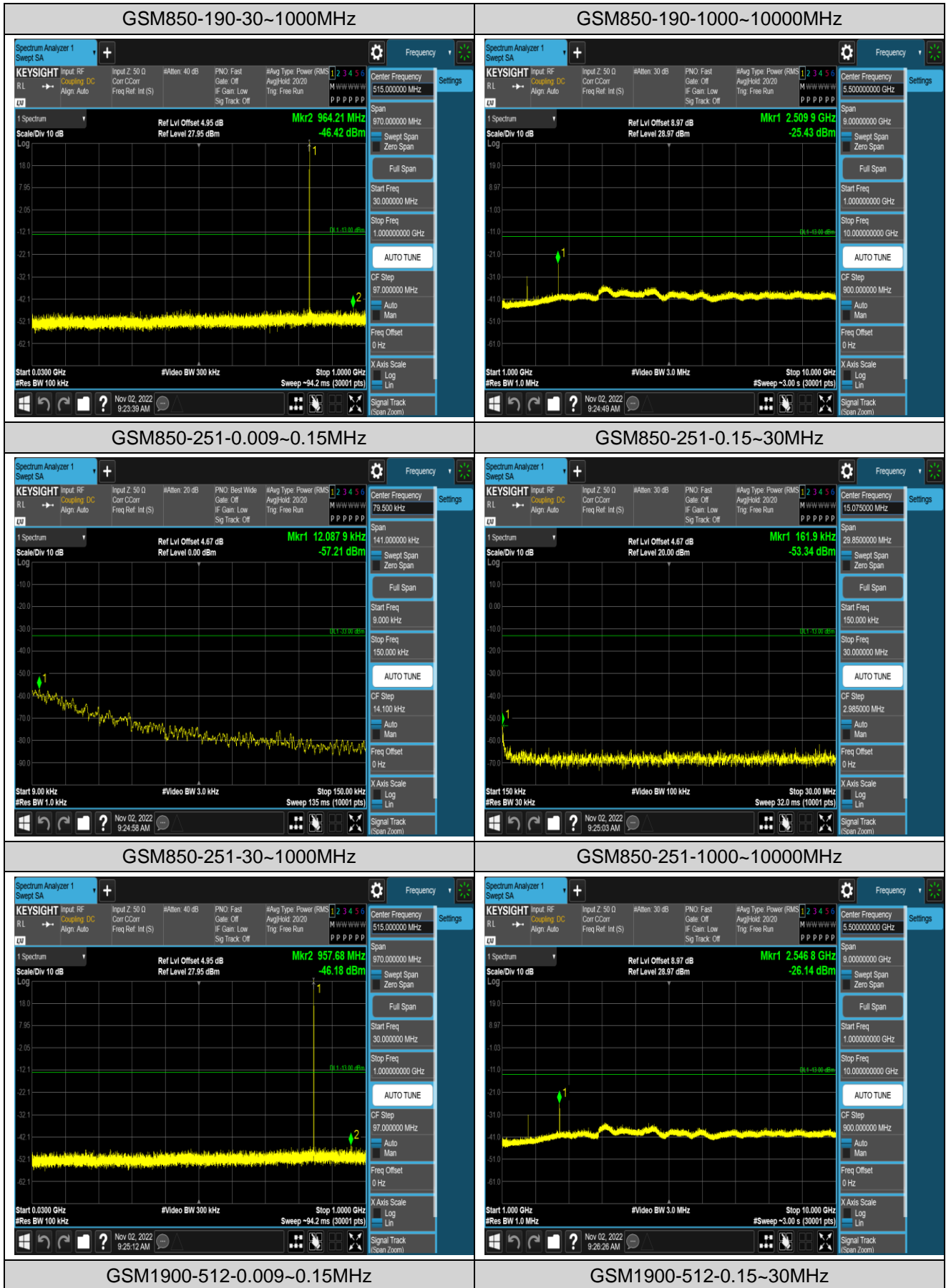
Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.86	-33	PASS
GSM850	128	5	0.15~30MHz	0.17	-50.6	-13	PASS
GSM850	128	5	30~1000MHz	496.54	-46.69	-13	PASS
GSM850	128	5	1000~10000MHz	2472.7	-25.96	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.25	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-54.18	-13	PASS
GSM850	190	5	30~1000MHz	964.21	-46.42	-13	PASS
GSM850	190	5	1000~10000MHz	2509.9	-25.43	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-57.21	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-53.34	-13	PASS
GSM850	251	5	30~1000MHz	957.68	-46.18	-13	PASS
GSM850	251	5	1000~10000MHz	2546.8	-26.14	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.45	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-54.31	-23	PASS
GSM1900	512	0	30~1000MHz	946.1	-46.99	-13	PASS
GSM1900	512	0	1000~18000MHz	3711.5	-35.04	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.27	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-51.49	-23	PASS
GSM1900	661	0	30~1000MHz	998.97	-47.1	-13	PASS
GSM1900	661	0	1000~18000MHz	3750.6	-34.56	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.57	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-52.93	-23	PASS
GSM1900	810	0	30~1000MHz	909.76	-46.79	-13	PASS
GSM1900	810	0	1000~18000MHz	3870.17	-34.65	-13	PASS

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

Test Graphs







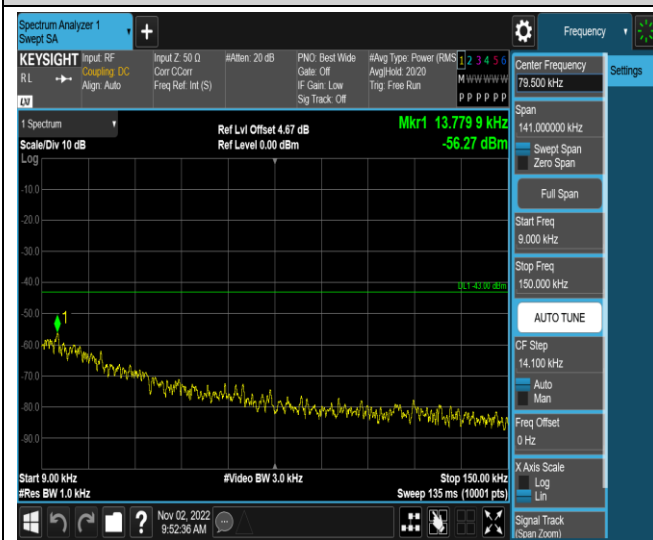
GSM1900-512-30~1000MHz

GSM1900-512-1000~18000MHz



GSM1900-661-0.009~0.15MHz

GSM1900-661-0.15~30MHz



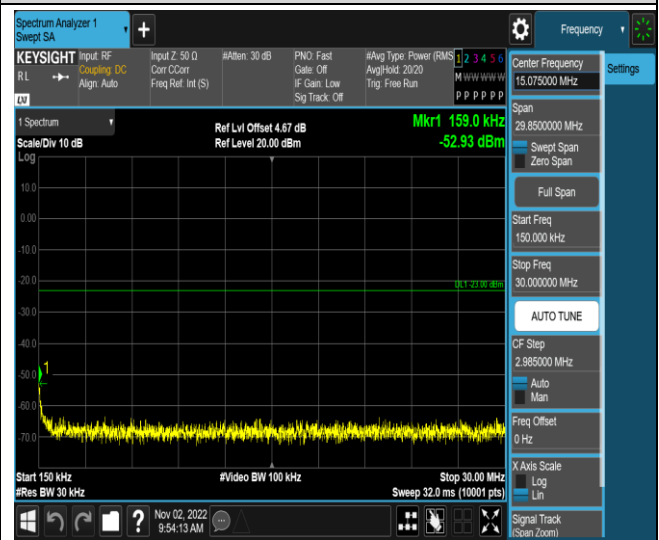
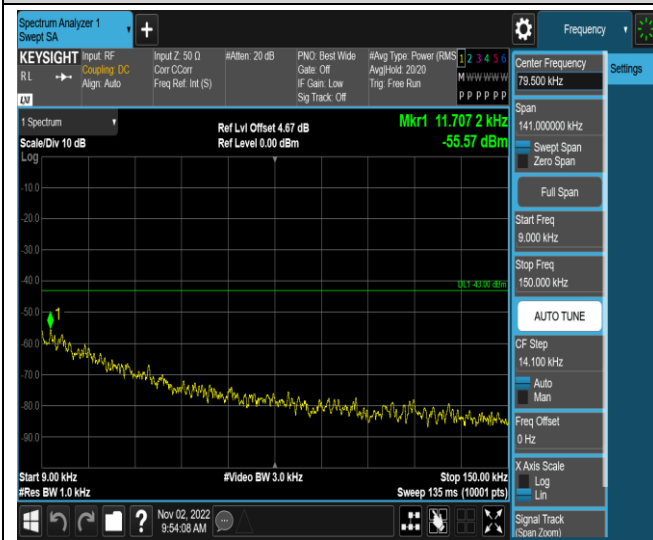
GSM1900-661-30~1000MHz

GSM1900-661-1000~18000MHz



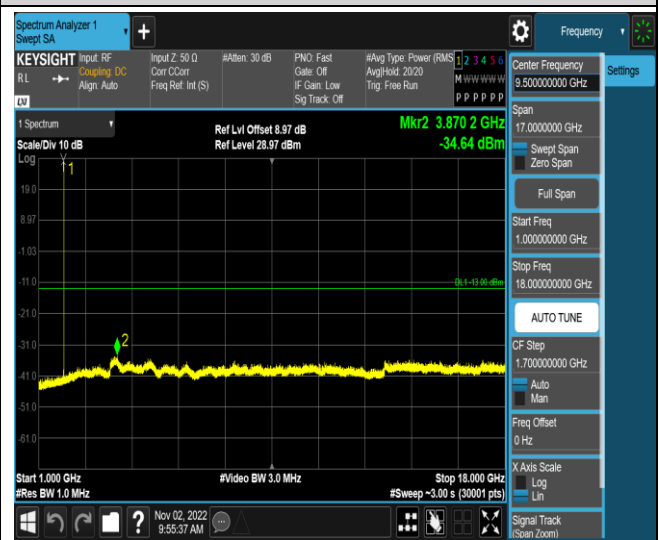
GSM1900-810-0.009~0.15MHz

GSM1900-810-0.15~30MHz



GSM1900-810-30~1000MHz

GSM1900-810-1000~18000MHz



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	0	19.05	0.022771	±2.5	Pass
	10	19.40	0.023189		
	20	18.08	0.021611		
	30	18.85	0.022532		
	40	18.63	0.022269		
	50	18.44	0.022042		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.33	16.82	0.020105	±2.5	Pass
	3.70	16.05	0.019185		
	4.40	19.24	0.022998		
<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	0	42.04	0.022362	Within authorized band for PCS 1900	Pass
	10	39.23	0.020867		
	20	42.39	0.022548		
	30	38.87	0.020676		
	40	39.97	0.021261		
	50	45.30	0.024096		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.33	21.11	0.011229	Within authorized band for PCS 1900	Pass
	3.70	23.89	0.012707		
	4.40	27.93	0.014856		
<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

