

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	33.52	31.17	38.45	PASS
GSM850	190	5	33.55	31.2	38.45	PASS
GSM850	251	5	33.53	31.18	38.45	PASS
GSM1900	512	0	30.06	30.56	33.00	PASS
GSM1900	661	0	30.59	31.09	33.00	PASS
GSM1900	810	0	30.63	31.13	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.50	31.15	38.45	PASS
GPRS850	128	5	2	31.37	29.02	38.45	PASS
GPRS850	128	5	3	29.45	27.1	38.45	PASS
GPRS850	128	5	4	27.30	24.95	38.45	PASS
GPRS850	190	5	1	33.50	31.15	38.45	PASS
GPRS850	190	5	2	31.43	29.08	38.45	PASS
GPRS850	190	5	3	29.54	27.19	38.45	PASS
GPRS850	190	5	4	27.41	25.06	38.45	PASS
GPRS850	251	5	1	33.50	31.15	38.45	PASS
GPRS850	251	5	2	31.19	28.84	38.45	PASS
GPRS850	251	5	3	29.30	26.95	38.45	PASS
GPRS850	251	5	4	27.12	24.77	38.45	PASS
GPRS1900	512	0	1	30.22	30.72	33.00	PASS
GPRS1900	512	0	2	28.10	28.6	33.00	PASS
GPRS1900	512	0	3	26.47	26.97	33.00	PASS
GPRS1900	512	0	4	24.30	24.8	33.00	PASS
GPRS1900	661	0	1	30.52	31.02	33.00	PASS
GPRS1900	661	0	2	28.14	28.64	33.00	PASS
GPRS1900	661	0	3	26.51	27.01	33.00	PASS
GPRS1900	661	0	4	24.34	24.84	33.00	PASS
GPRS1900	810	0	1	30.57	31.07	33.00	PASS
GPRS1900	810	0	2	27.99	28.49	33.00	PASS
GPRS1900	810	0	3	26.35	26.85	33.00	PASS
GPRS1900	810	0	4	24.18	24.68	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)

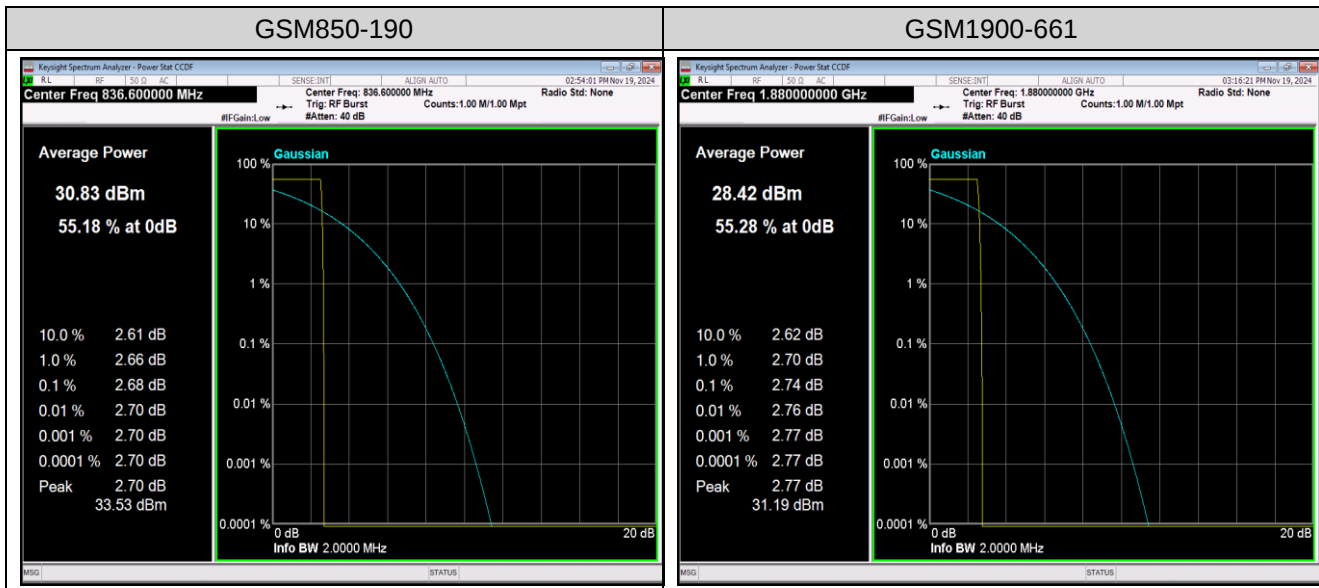
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.68	13	PASS
GSM1900	661	0	2.74	13	PASS

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

Test Graphs

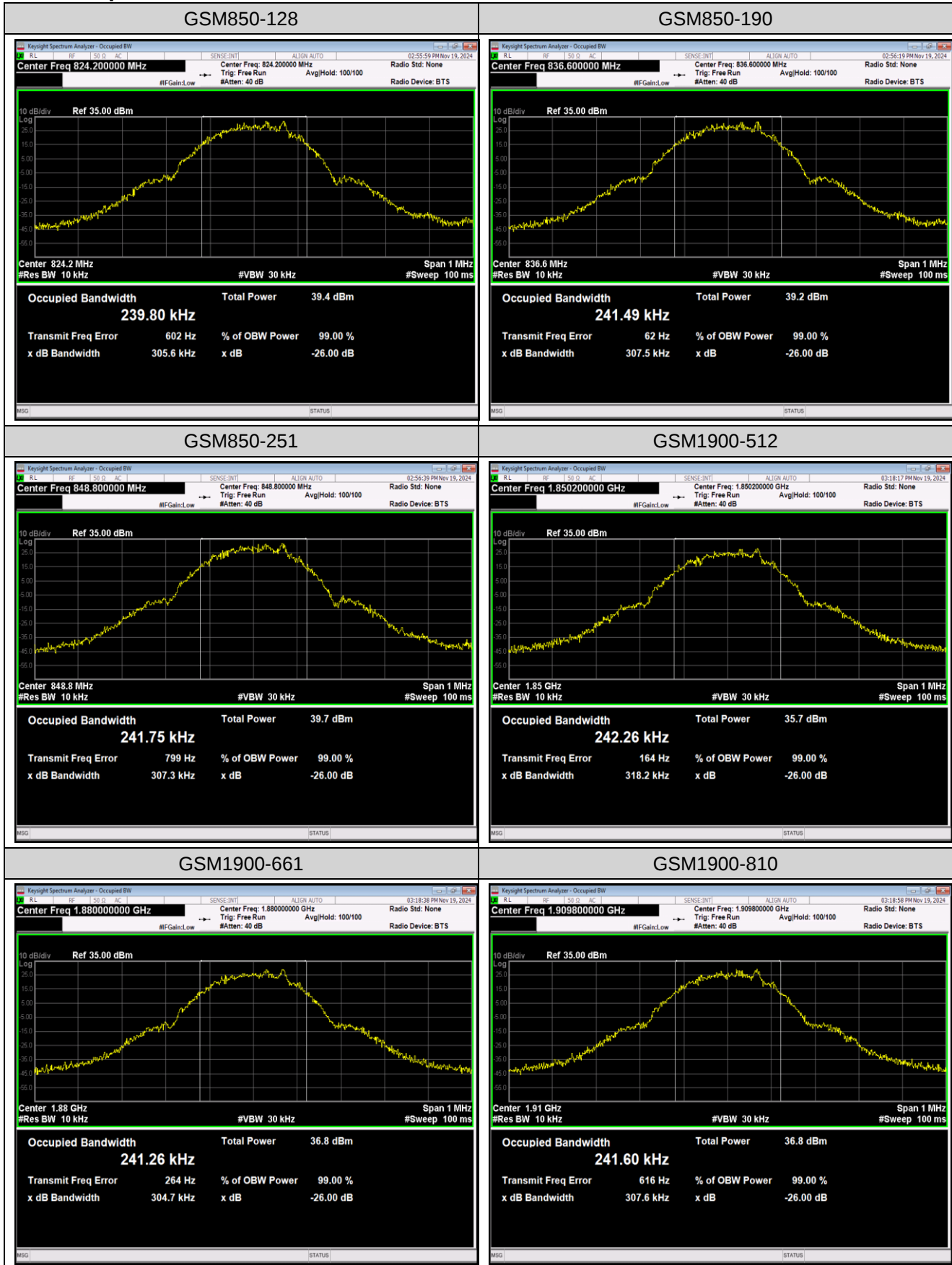


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.23980	0.3056	---	PASS
GSM850	190	5	0.24149	0.3075	---	PASS
GSM850	251	5	0.24175	0.3073	---	PASS
GSM1900	512	0	0.24226	0.3182	---	PASS
GSM1900	661	0	0.24126	0.3047	---	PASS
GSM1900	810	0	0.24160	0.3076	---	PASS

Test Graphs

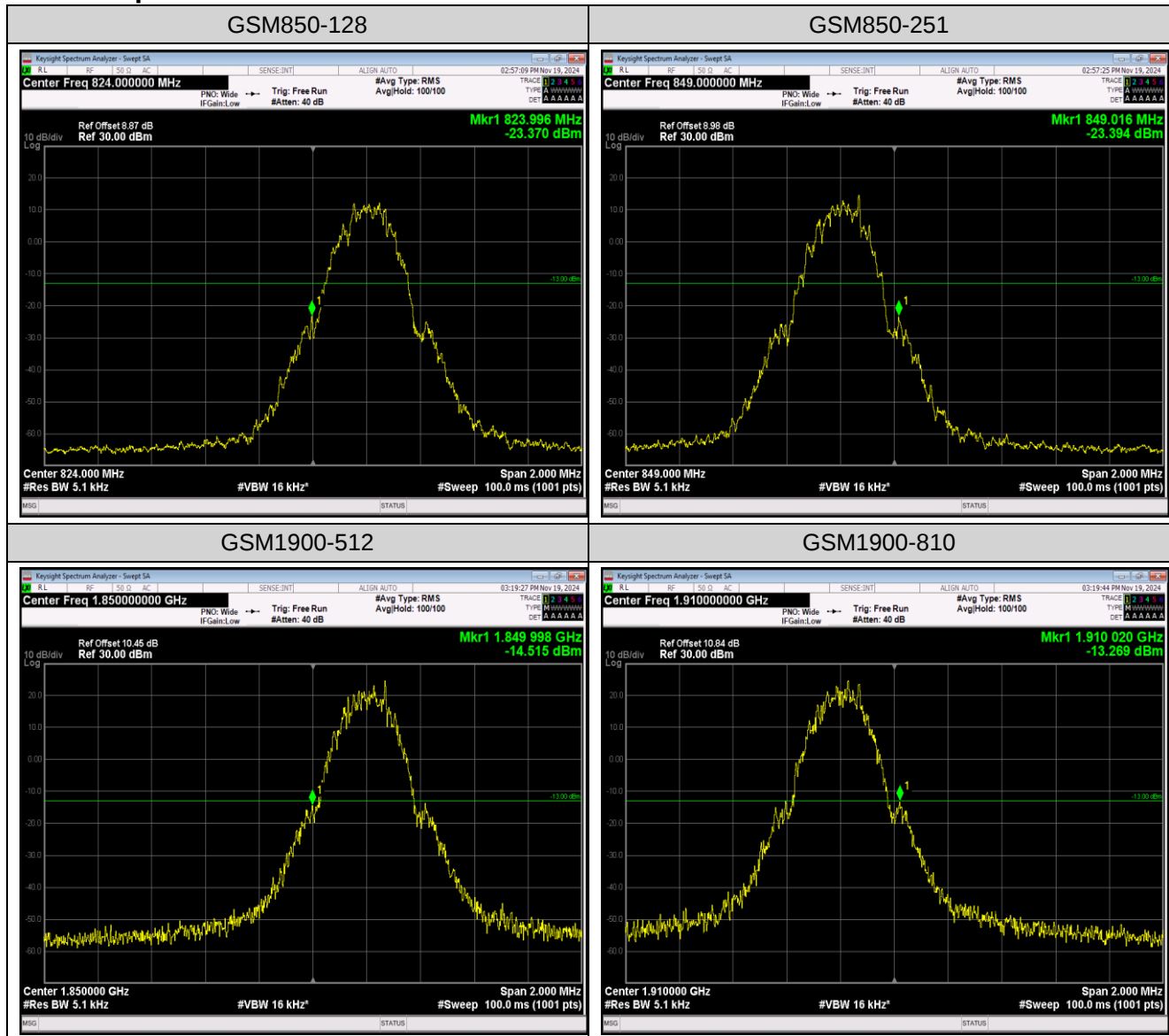


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.37	-13	PASS
GSM850	251	5	849.02	-23.39	-13	PASS
GSM1900	512	0	1850.00	-14.52	-13	PASS
GSM1900	810	0	1910.02	-13.27	-13	PASS

Test Graphs



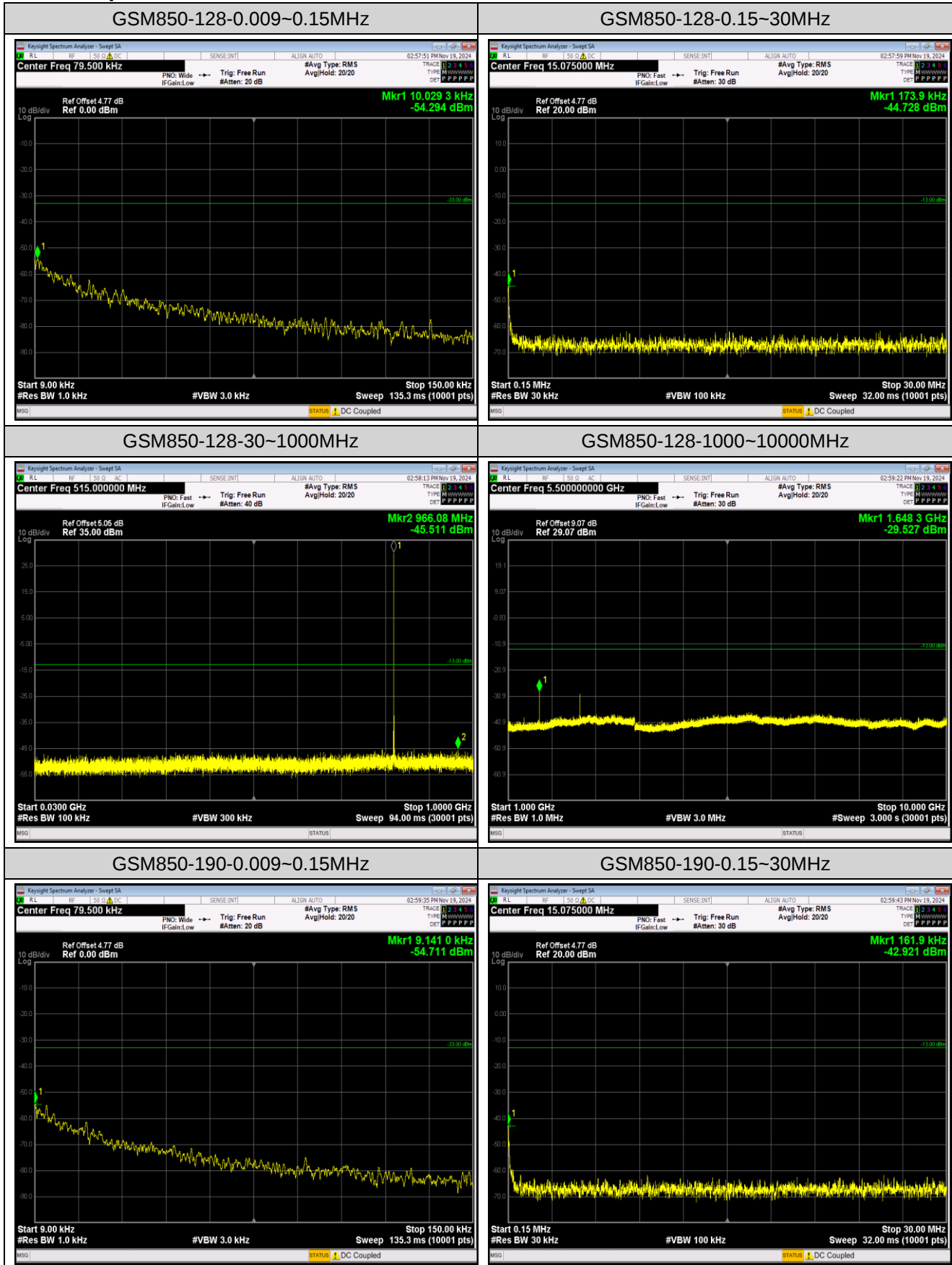
Appendix E: Conducted Spurious Emission

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	-54.29	-33	PASS
GSM850	128	5	0.15~30MHz	0.17	-44.73	-13	PASS
GSM850	128	5	30~1000MHz	966.08	-45.51	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-29.53	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.71	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-42.92	-13	PASS
GSM850	190	5	30~1000MHz	436.2	-45.36	-13	PASS
GSM850	190	5	1000~10000MHz	1672.9	-30.05	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.37	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-41.73	-13	PASS
GSM850	251	5	30~1000MHz	999.94	-45.48	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-29.63	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.84	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.38	-23	PASS
GSM1900	512	0	30~1000MHz	829.44	-46	-13	PASS
GSM1900	512	0	1000~18000MHz	16214.43	-21.97	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.6	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-42.74	-23	PASS
GSM1900	661	0	30~1000MHz	900.41	-45.51	-13	PASS
GSM1900	661	0	1000~18000MHz	17074.07	-21.85	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.64	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43.16	-23	PASS
GSM1900	810	0	30~1000MHz	679.12	-46.66	-13	PASS
GSM1900	810	0	1000~18000MHz	16735.2	-22.48	-13	PASS

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

Test Graphs

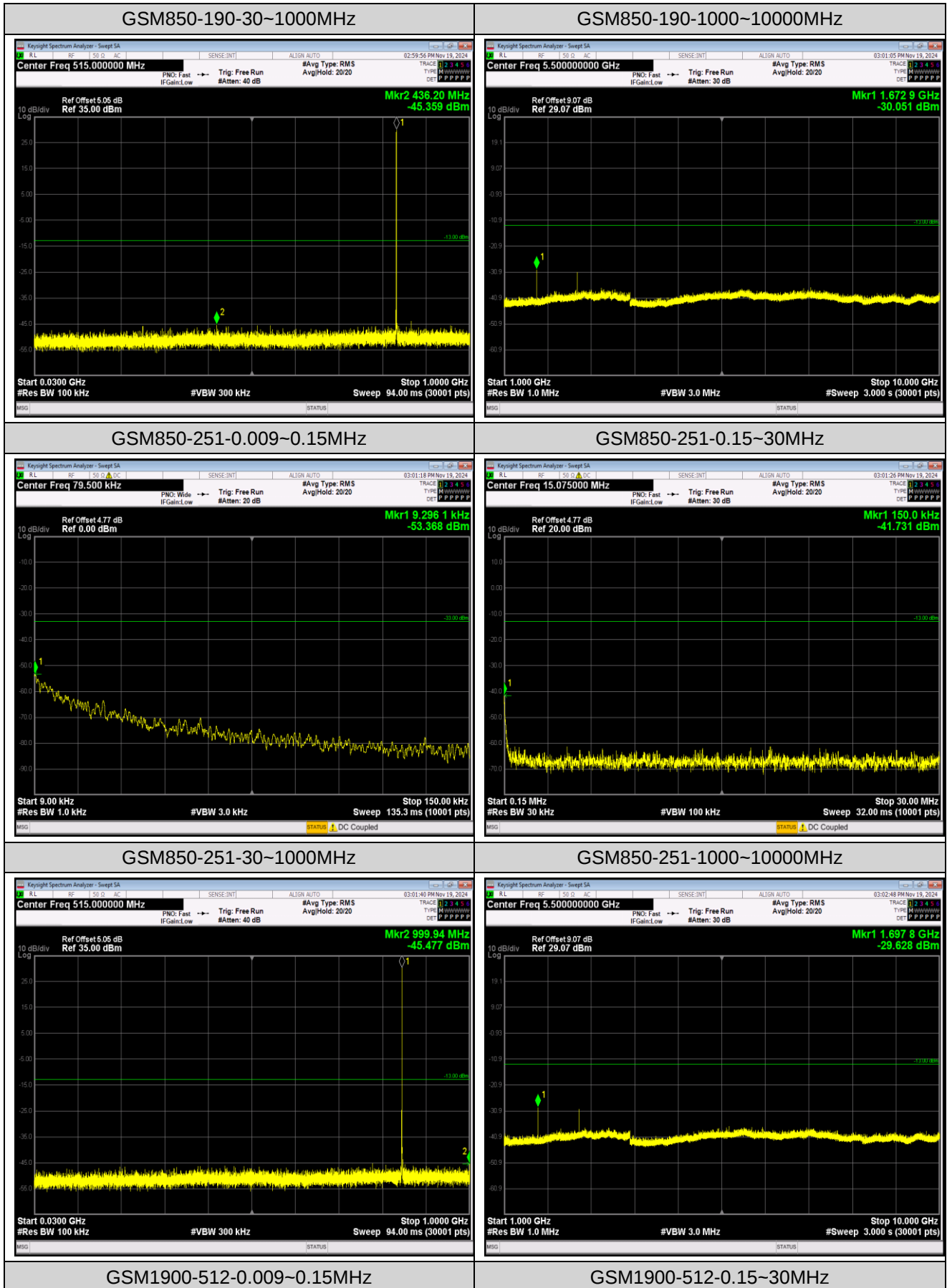


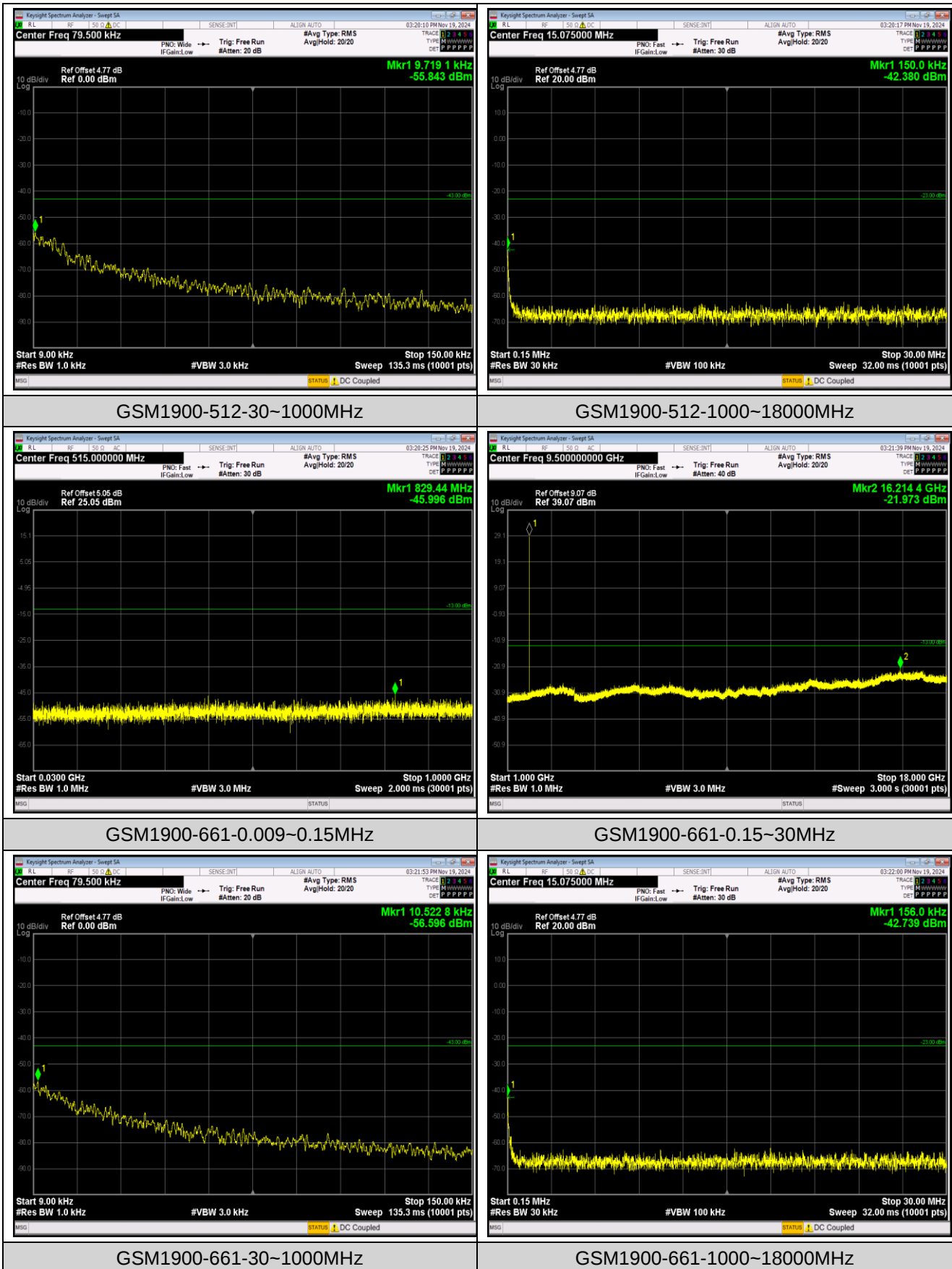
JianYan Testing Group Shenzhen Co., Ltd.

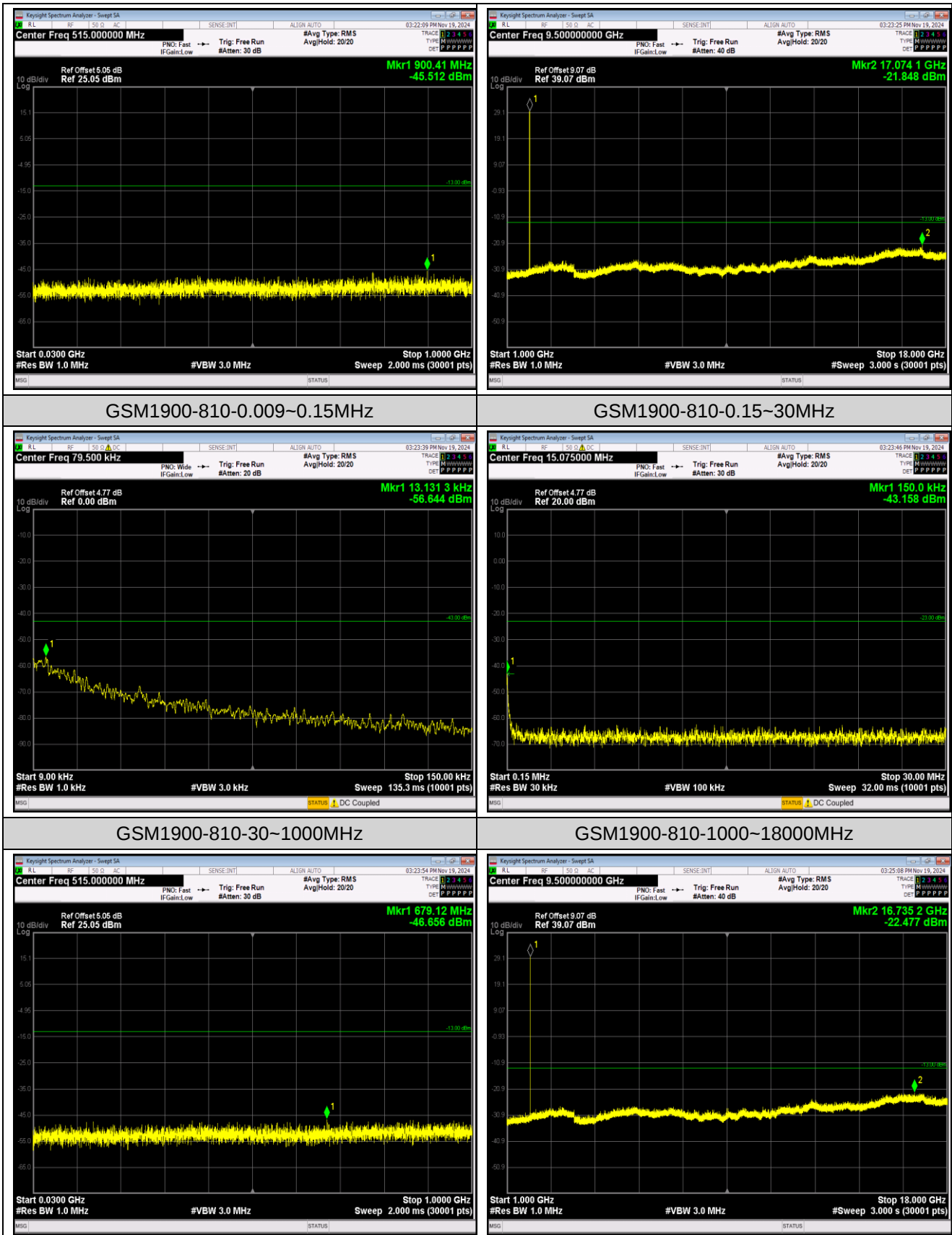
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.7	-30	-0.36	-0.000430	±2.5	Pass
	-20	3.94	0.004710		
	-10	-0.58	-0.000693		
	0	0.13	0.000155		
	10	4.04	0.004829		
	20	5.10	0.006096		
	30	3.97	0.004745		
	40	3.84	0.004590		
	50	5.26	0.006287		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	4.00	0.004781	±2.5	Pass
	3.70	3.39	0.004052		
	4.20	3.20	0.003825		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.7	-30	0.55	0.000293	Within authorized band for PCS 1900	Pass
	-20	8.36	0.004447		
	-10	10.49	0.005580		
	0	14.79	0.007867		
	10	17.76	0.009447		
	20	19.76	0.010511		
	30	15.50	0.008245		
	40	14.69	0.007814		
	50	18.14	0.009649		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	11.66	0.006202	Within authorized band for PCS 1900	Pass
	3.70	12.53	0.006665		
	4.20	6.52	0.003468		
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

