

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	34.53	29.73	38.45	PASS
GSM850	190	5	34.63	29.83	38.45	PASS
GSM850	251	5	34.45	29.65	38.45	PASS
GSM1900	512	0	30.57	30.85	33.00	PASS
GSM1900	661	0	30.66	30.94	33.00	PASS
GSM1900	810	0	30.48	30.76	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	34.53	29.73	38.45	PASS
GPRS850	128	5	2	31.30	26.5	38.45	PASS
GPRS850	128	5	3	29.23	24.43	38.45	PASS
GPRS850	128	5	4	26.90	22.1	38.45	PASS
GPRS850	190	5	1	34.64	29.84	38.45	PASS
GPRS850	190	5	2	31.00	26.2	38.45	PASS
GPRS850	190	5	3	28.93	24.13	38.45	PASS
GPRS850	190	5	4	26.61	21.81	38.45	PASS
GPRS850	251	5	1	34.45	29.65	38.45	PASS
GPRS850	251	5	2	30.76	25.96	38.45	PASS
GPRS850	251	5	3	28.76	23.96	38.45	PASS
GPRS850	251	5	4	26.46	21.66	38.45	PASS
GPRS1900	512	0	1	30.57	30.85	33.00	PASS
GPRS1900	512	0	2	27.35	27.63	33.00	PASS
GPRS1900	512	0	3	25.63	25.91	33.00	PASS
GPRS1900	512	0	4	23.56	23.84	33.00	PASS
GPRS1900	661	0	1	30.68	30.96	33.00	PASS
GPRS1900	661	0	2	27.09	27.37	33.00	PASS
GPRS1900	661	0	3	25.33	25.61	33.00	PASS
GPRS1900	661	0	4	23.20	23.48	33.00	PASS
GPRS1900	810	0	1	30.53	30.81	33.00	PASS
GPRS1900	810	0	2	26.35	26.63	33.00	PASS
GPRS1900	810	0	3	24.54	24.82	33.00	PASS
GPRS1900	810	0	4	22.41	22.69	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	25.87	21.07	38.45	PASS
EGPRS850	128	8	2	24.64	19.84	38.45	PASS
EGPRS850	128	8	3	22.73	17.93	38.45	PASS
EGPRS850	128	8	4	20.24	15.44	38.45	PASS
EGPRS850	190	8	1	26.04	21.24	38.45	PASS
EGPRS850	190	8	2	24.76	19.96	38.45	PASS
EGPRS850	190	8	3	22.92	18.12	38.45	PASS
EGPRS850	190	8	4	20.25	15.45	38.45	PASS
EGPRS850	251	8	1	26.29	21.49	38.45	PASS
EGPRS850	251	8	2	24.60	19.8	38.45	PASS
EGPRS850	251	8	3	22.78	17.98	38.45	PASS
EGPRS850	251	8	4	20.20	15.4	38.45	PASS
EGPRS1900	512	2	1	25.98	26.26	33.00	PASS
EGPRS1900	512	2	2	23.89	24.17	33.00	PASS
EGPRS1900	512	2	3	21.33	21.61	33.00	PASS
EGPRS1900	512	2	4	19.08	19.36	33.00	PASS
EGPRS1900	661	2	1	26.14	26.42	33.00	PASS
EGPRS1900	661	2	2	24.14	24.42	33.00	PASS
EGPRS1900	661	2	3	21.55	21.83	33.00	PASS
EGPRS1900	661	2	4	19.30	19.58	33.00	PASS
EGPRS1900	810	2	1	25.70	25.98	33.00	PASS
EGPRS1900	810	2	2	23.59	23.87	33.00	PASS
EGPRS1900	810	2	3	21.01	21.29	33.00	PASS
EGPRS1900	810	2	4	18.89	19.17	33.00	PASS

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

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

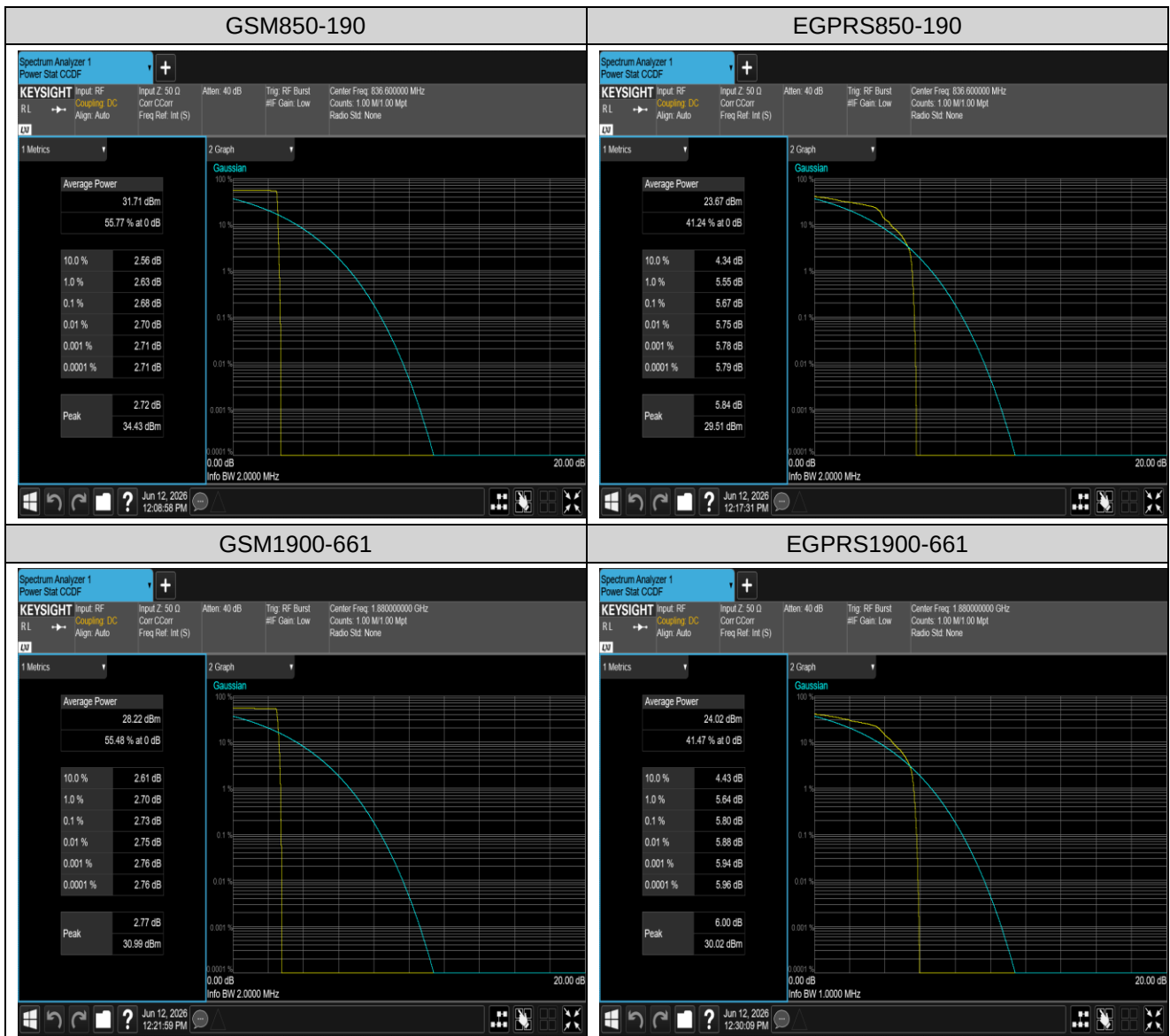
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.68	13	PASS
EGPRS850	190	8	5.67	13	PASS
GSM1900	661	0	2.73	13	PASS
EGPRS1900	661	2	5.8	13	PASS

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

Test Graphs

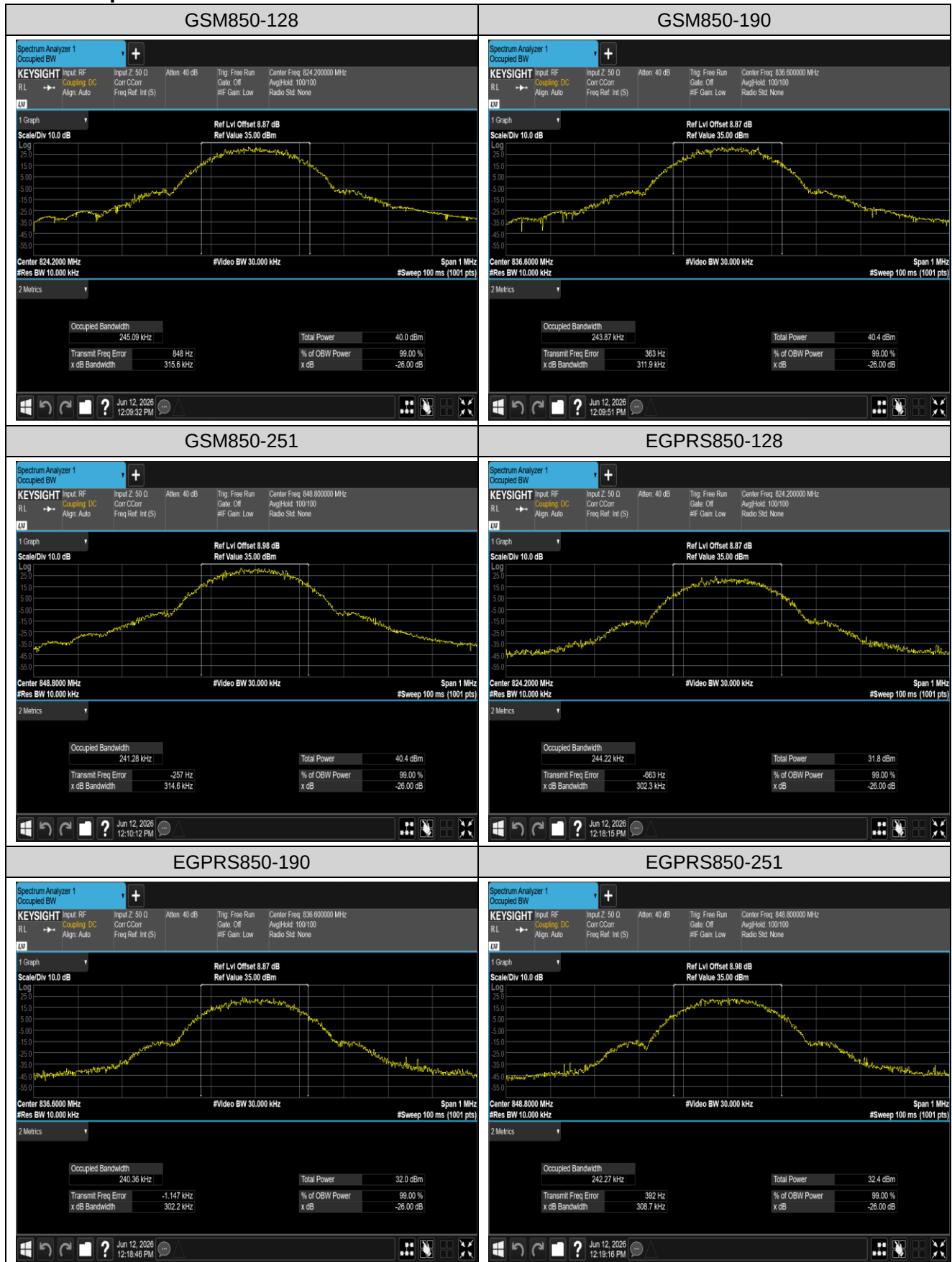


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24509	0.3156	---	PASS
GSM850	190	5	0.24387	0.3119	---	PASS
GSM850	251	5	0.24128	0.3146	---	PASS
EGPRS850	128	8	0.24422	0.3023	---	PASS
EGPRS850	190	8	0.24036	0.3022	---	PASS
EGPRS850	251	8	0.24227	0.3087	---	PASS
GSM1900	512	0	0.24457	0.3098	---	PASS
GSM1900	661	0	0.24380	0.3162	---	PASS
GSM1900	810	0	0.24477	0.3128	---	PASS
EGPRS1900	512	2	0.24277	0.3088	---	PASS
EGPRS1900	661	2	0.24160	0.3097	---	PASS
EGPRS1900	810	2	0.24136	0.3023	---	PASS

Test Graphs

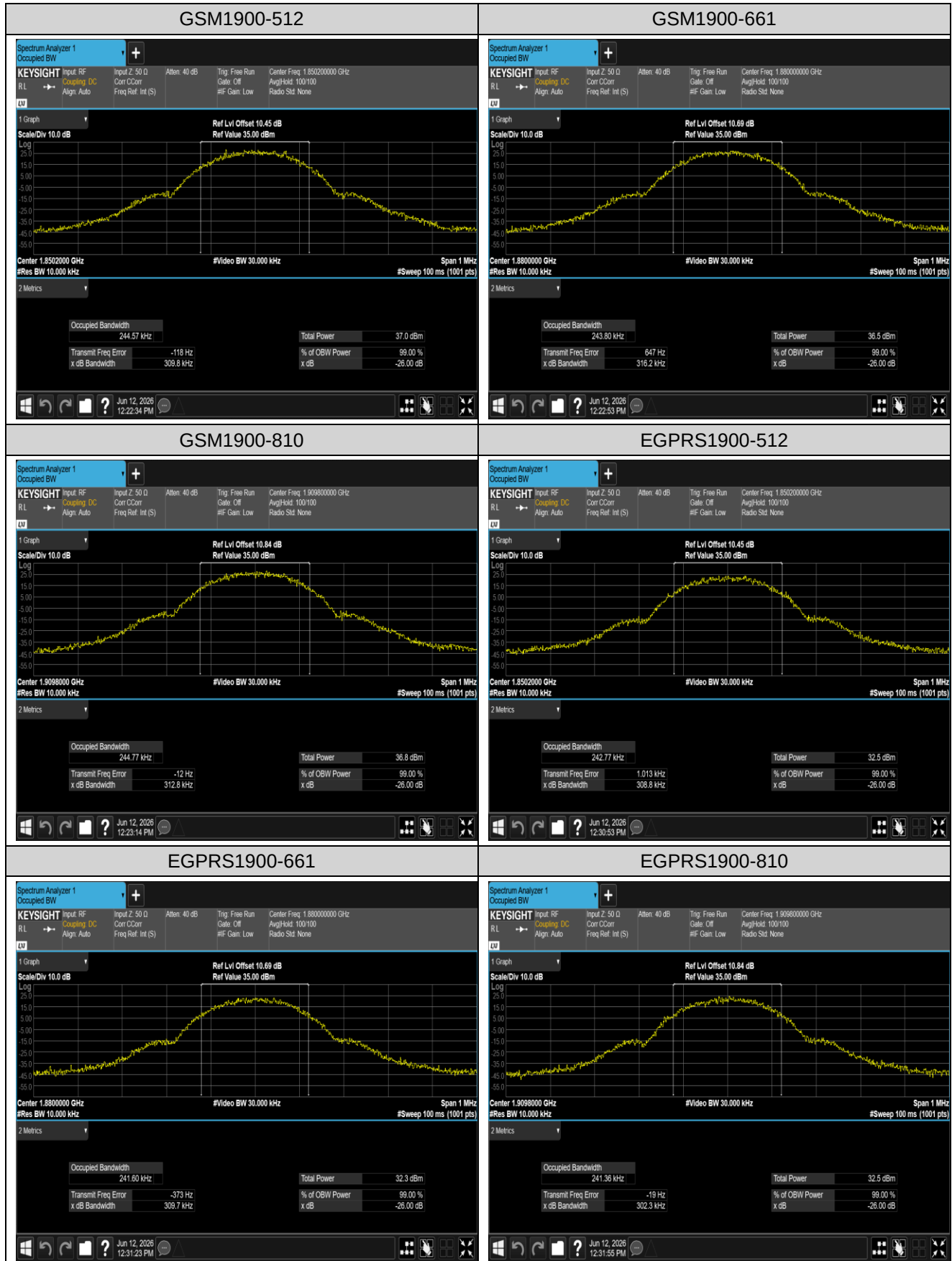


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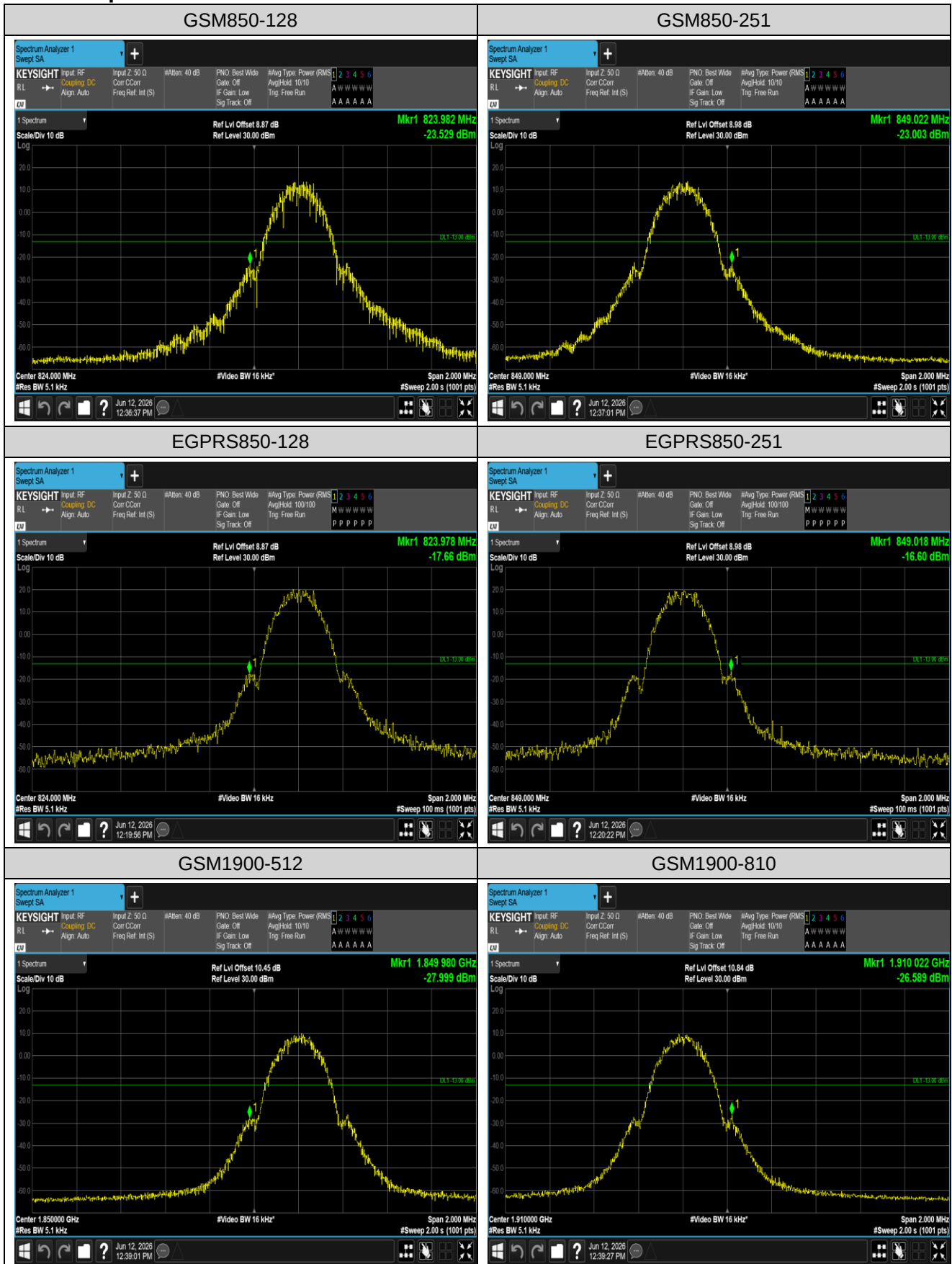


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-23.53	-13	PASS
GSM850	251	5	849.02	-23.00	-13	PASS
EGPRS850	128	8	823.98	-17.66	-13	PASS
EGPRS850	251	8	849.02	-16.60	-13	PASS
GSM1900	512	0	1849.98	-28.00	-13	PASS
GSM1900	810	0	1910.02	-26.59	-13	PASS
EGPRS1900	512	2	1849.99	-17.24	-13	PASS
EGPRS1900	810	2	1910.01	-16.95	-13	PASS

Test Graphs

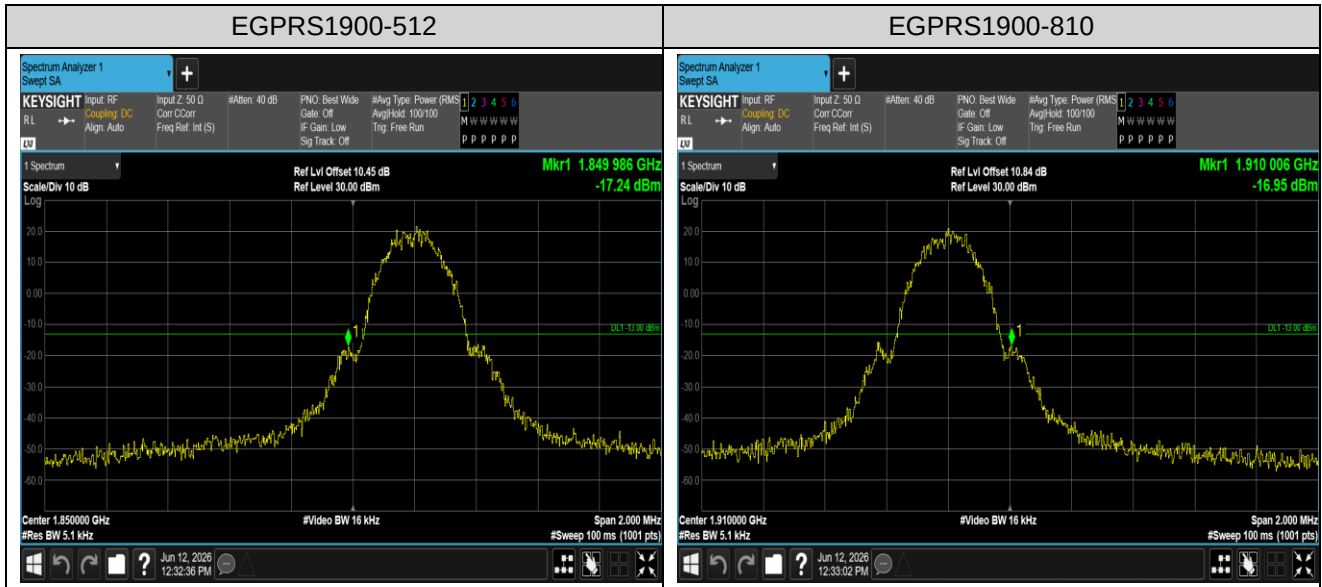


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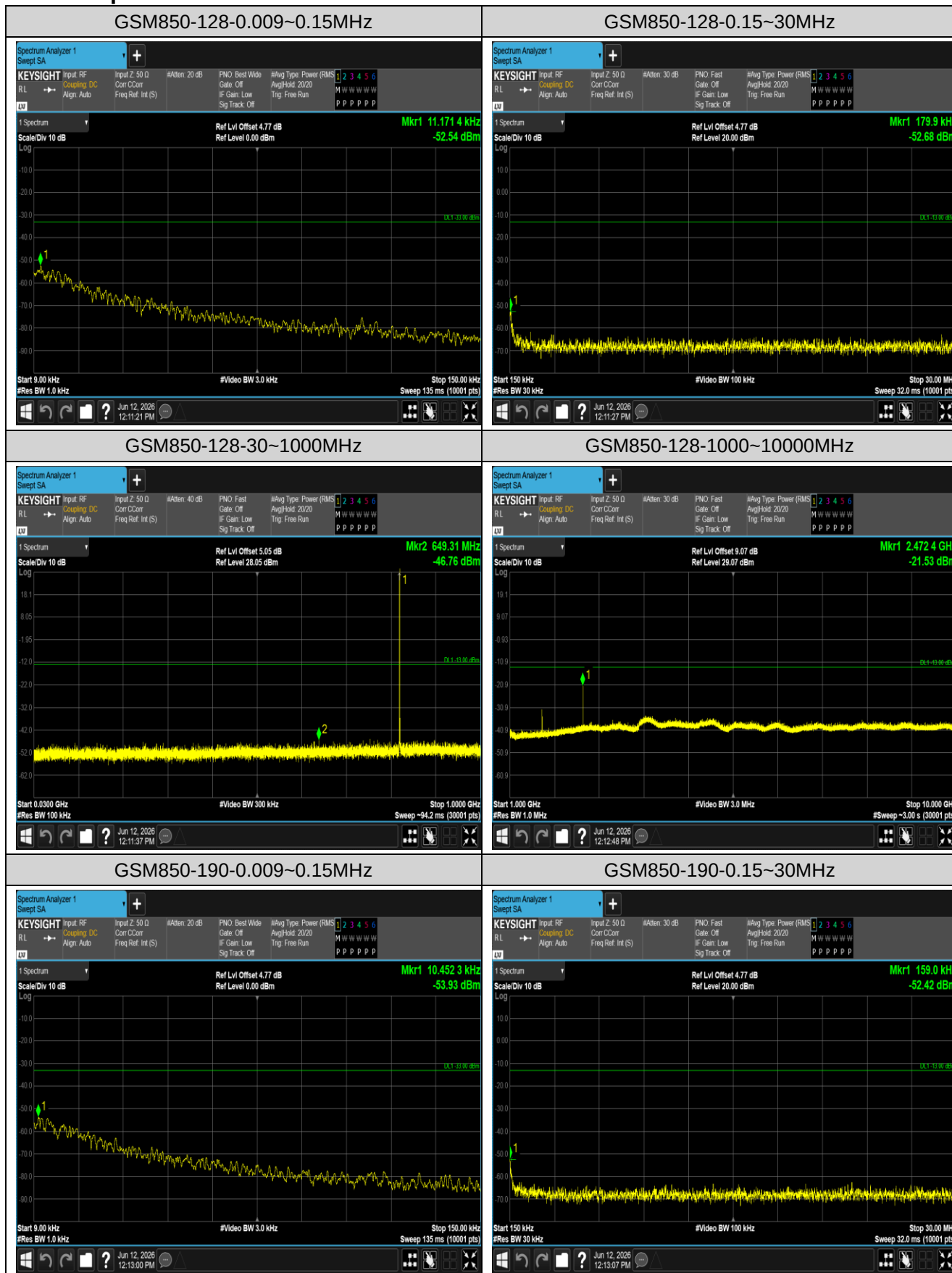
Appendix E: Conducted Spurious Emission

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	-52.54	-33	PASS
GSM850	128	5	0.15~30MHz	0.18	-52.68	-13	PASS
GSM850	128	5	30~1000MHz	649.31	-46.76	-13	PASS
GSM850	128	5	1000~10000MHz	2472.4	-21.53	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-53.94	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-52.42	-13	PASS
GSM850	190	5	30~1000MHz	982.22	-45.97	-13	PASS
GSM850	190	5	1000~10000MHz	2509.9	-20.12	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.65	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-53.77	-13	PASS
GSM850	251	5	30~1000MHz	983.15	-46.57	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-19.4	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-58.75	-43	PASS
GSM1900	512	0	0.15~30MHz	0.19	-52.39	-23	PASS
GSM1900	512	0	30~1000MHz	932.71	-47.04	-13	PASS
GSM1900	512	0	1000~18000MHz	3853.73	-24.32	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-59.77	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-52.24	-23	PASS
GSM1900	661	0	30~1000MHz	833.65	-45.81	-13	PASS
GSM1900	661	0	1000~18000MHz	3730.2	-24.55	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-59.33	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-53.42	-23	PASS
GSM1900	810	0	30~1000MHz	956.45	-46.67	-13	PASS
GSM1900	810	0	1000~18000MHz	5074.9	-25.1	-13	PASS

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

Test Graphs

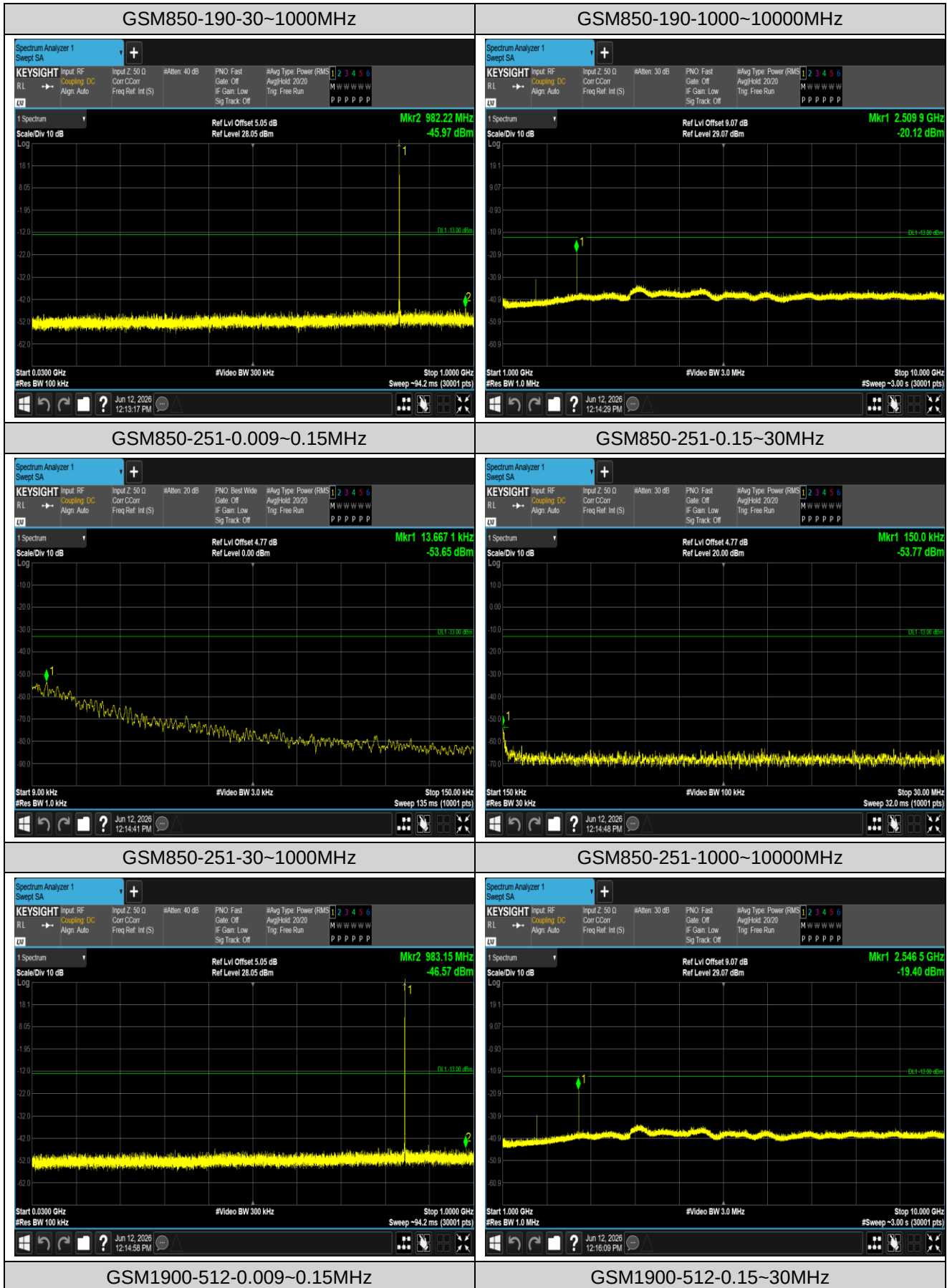


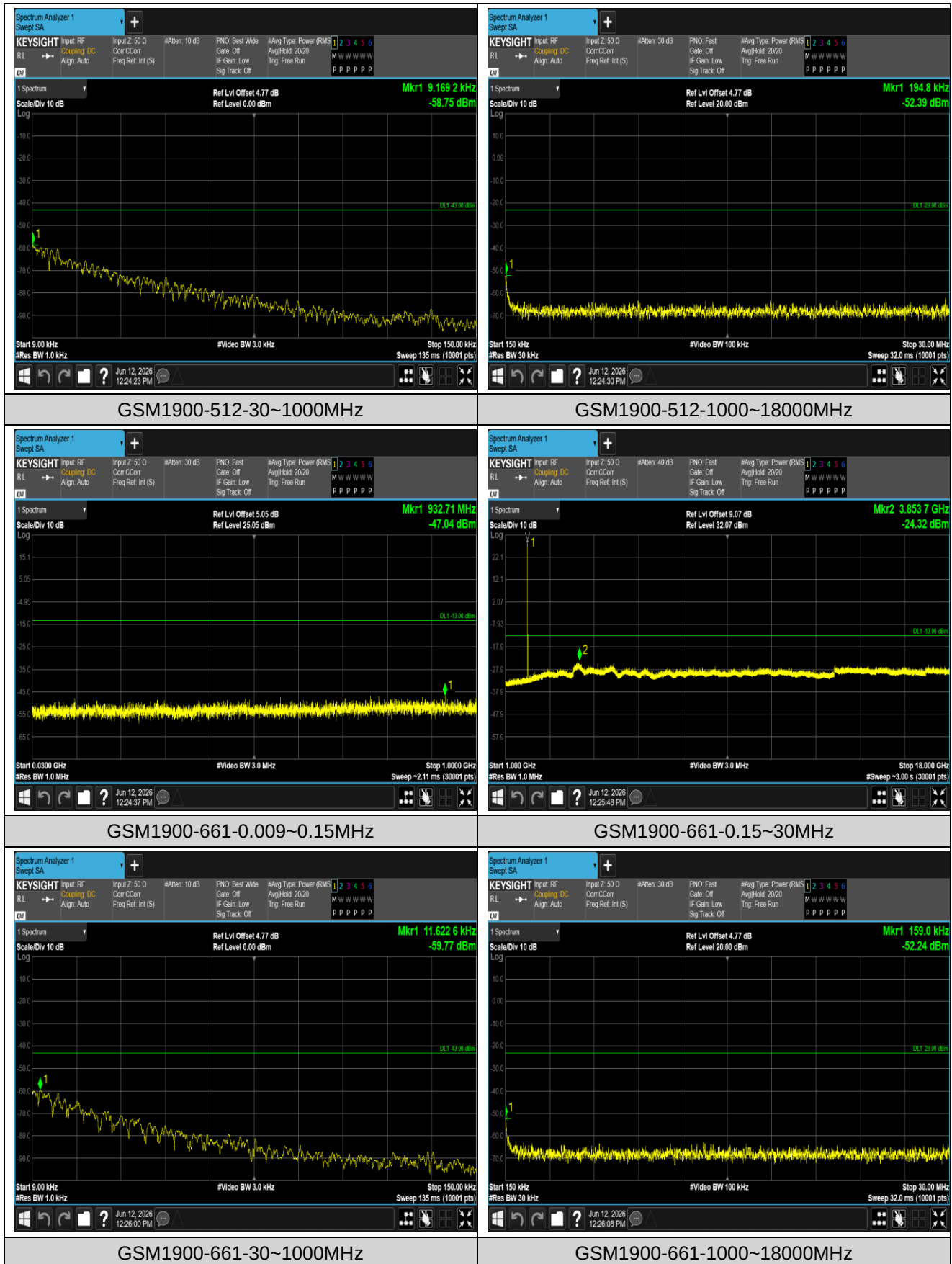
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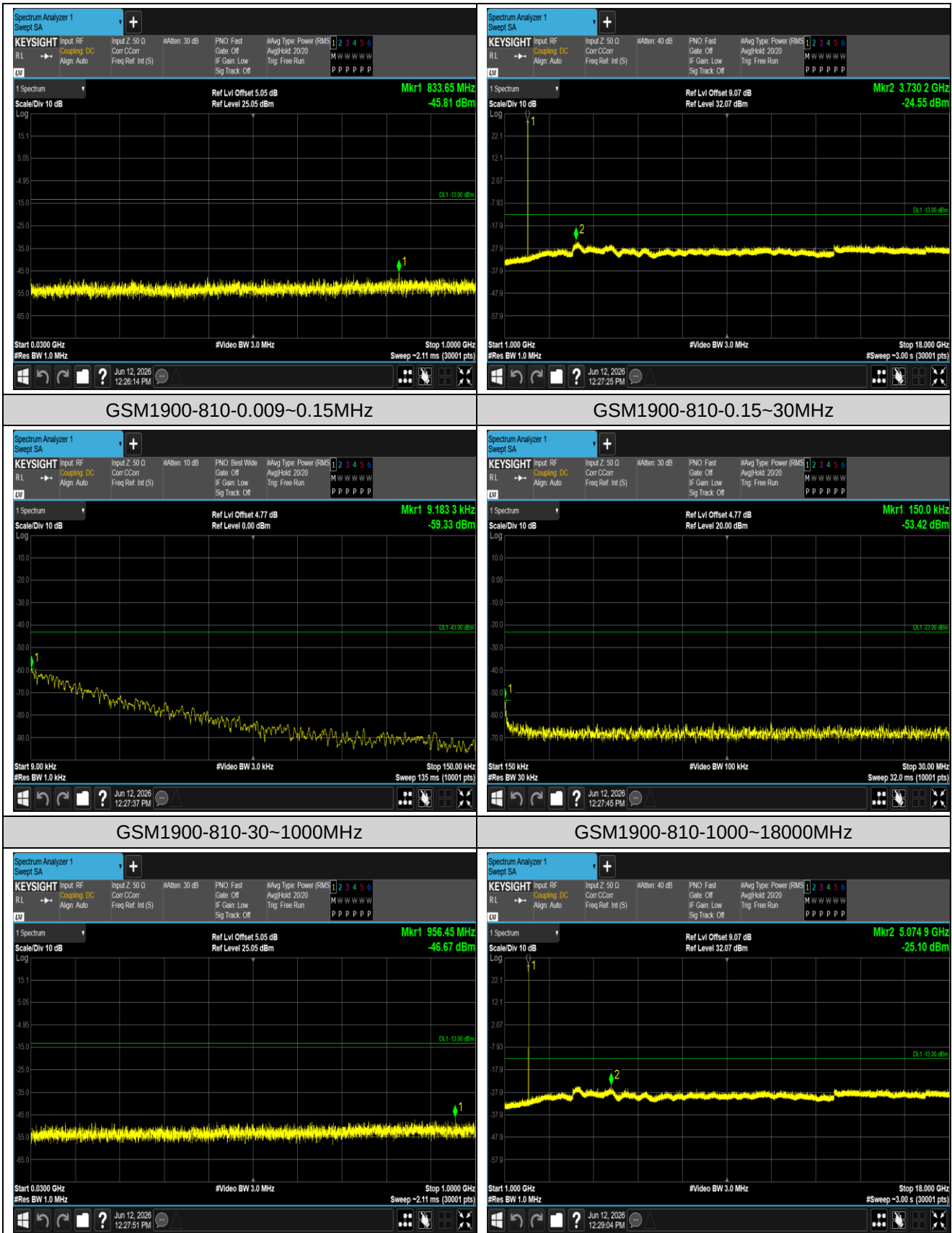
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	4.68	0.005594	±2.5	Pass
	-20	7.78	0.009300		
	-10	10.23	0.012228		
	0	7.46	0.008917		
	10	7.94	0.009491		
	20	5.59	0.006682		
	30	8.30	0.009921		
	40	4.46	0.005331		
	50	5.91	0.007064		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	7.97	0.009527	±2.5	Pass
	3.87	6.30	0.007530		
	4.20	10.11	0.012085		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: EGPRS850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	10.04	0.012001	±2.5	Pass
	-20	12.24	0.014631		
	-10	14.43	0.017248		
	0	14.75	0.017631		
	10	15.82	0.018910		
	20	18.11	0.021647		
	30	13.62	0.016280		
	40	7.49	0.008953		
	50	10.82	0.012933		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	9.04	0.010806	±2.5	Pass
	3.87	12.01	0.014356		
	4.20	9.56	0.011427		
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		
3.87	-30	14.43	0.007676	Within authorized band for PCS 1900	Pass
	-20	14.04	0.007468		
	-10	8.07	0.004293		
	0	8.01	0.004261		
	10	8.59	0.004569		
	20	4.07	0.002165		
	30	11.30	0.006011		
	40	8.68	0.004617		
	50	23.89	0.012707		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	4.55	0.002420	Within authorized band for PCS 1900	Pass
	3.87	7.97	0.004239		
	4.20	14.56	0.007745		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: EGPRS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	12.72	0.006766	Within authorized band for PCS 1900	Pass
	-20	24.38	0.012968		
	-10	17.24	0.009170		
	0	16.89	0.008984		
	10	17.01	0.009048		
	20	15.53	0.008261		
	30	15.85	0.008431		
	40	9.88	0.005255		
	50	25.12	0.013362		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	15.11	0.008037	Within authorized band for PCS 1900	Pass
	3.87	12.95	0.006888		
	4.20	26.31	0.013995		
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
EGPRS850	190	PASS	PASS
GSM1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS

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

Test Graphs

