

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	33.09	31.34	38.5	PASS
GSM850	190	5	33.57	31.82	38.5	PASS
GSM850	251	5	33.29	31.54	38.5	PASS
GSM1900	512	0	30.52	31.12	33	PASS
GSM1900	661	0	30.52	31.12	33	PASS
GSM1900	810	0	30.47	31.07	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.38	31.63	38.5	PASS
GPRS850	128	5	2	32.39	30.64	38.5	PASS
GPRS850	128	5	3	30.48	28.73	38.5	PASS
GPRS850	128	5	4	29.35	27.60	38.5	PASS
GPRS850	190	5	1	33.58	31.83	38.5	PASS
GPRS850	190	5	2	32.82	31.07	38.5	PASS
GPRS850	190	5	3	30.84	29.09	38.5	PASS
GPRS850	190	5	4	29.73	27.98	38.5	PASS
GPRS850	251	5	1	33.48	31.73	38.5	PASS
GPRS850	251	5	2	32.56	30.81	38.5	PASS
GPRS850	251	5	3	30.63	28.88	38.5	PASS
GPRS850	251	5	4	29.53	27.78	38.5	PASS
GPRS1900	512	0	1	30.51	31.11	33	PASS
GPRS1900	512	0	2	30.45	31.05	33	PASS
GPRS1900	512	0	3	28.31	28.91	33	PASS
GPRS1900	512	0	4	27.20	27.80	33	PASS
GPRS1900	661	0	1	30.52	31.12	33	PASS
GPRS1900	661	0	2	30.49	31.09	33	PASS
GPRS1900	661	0	3	28.35	28.95	33	PASS
GPRS1900	661	0	4	27.23	27.83	33	PASS
GPRS1900	810	0	1	30.48	31.08	33	PASS
GPRS1900	810	0	2	30.47	31.07	33	PASS
GPRS1900	810	0	3	27.99	28.59	33	PASS
GPRS1900	810	0	4	26.89	27.49	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.43	25.68	38.5	PASS
EGPRS850	128	8	2	26.27	24.52	38.5	PASS
EGPRS850	128	8	3	24.29	22.54	38.5	PASS
EGPRS850	128	8	4	23.16	21.41	38.5	PASS
EGPRS850	190	8	1	27.62	25.87	38.5	PASS
EGPRS850	190	8	2	26.45	24.70	38.5	PASS
EGPRS850	190	8	3	24.50	22.75	38.5	PASS
EGPRS850	190	8	4	23.31	21.56	38.5	PASS
EGPRS850	251	8	1	27.65	25.90	38.5	PASS
EGPRS850	251	8	2	26.58	24.83	38.5	PASS
EGPRS850	251	8	3	24.54	22.79	38.5	PASS
EGPRS850	251	8	4	23.30	21.55	38.5	PASS
EGPRS1900	512	2	1	26.76	27.36	33	PASS
EGPRS1900	512	2	2	25.69	26.29	33	PASS
EGPRS1900	512	2	3	23.65	24.25	33	PASS
EGPRS1900	512	2	4	22.18	22.78	33	PASS
EGPRS1900	661	2	1	26.51	27.11	33	PASS
EGPRS1900	661	2	2	25.43	26.03	33	PASS
EGPRS1900	661	2	3	23.30	23.90	33	PASS
EGPRS1900	661	2	4	21.99	22.59	33	PASS
EGPRS1900	810	2	1	26.28	26.88	33	PASS
EGPRS1900	810	2	2	25.18	25.78	33	PASS
EGPRS1900	810	2	3	23.00	23.60	33	PASS
EGPRS1900	810	2	4	21.70	22.30	33	PASS

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

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

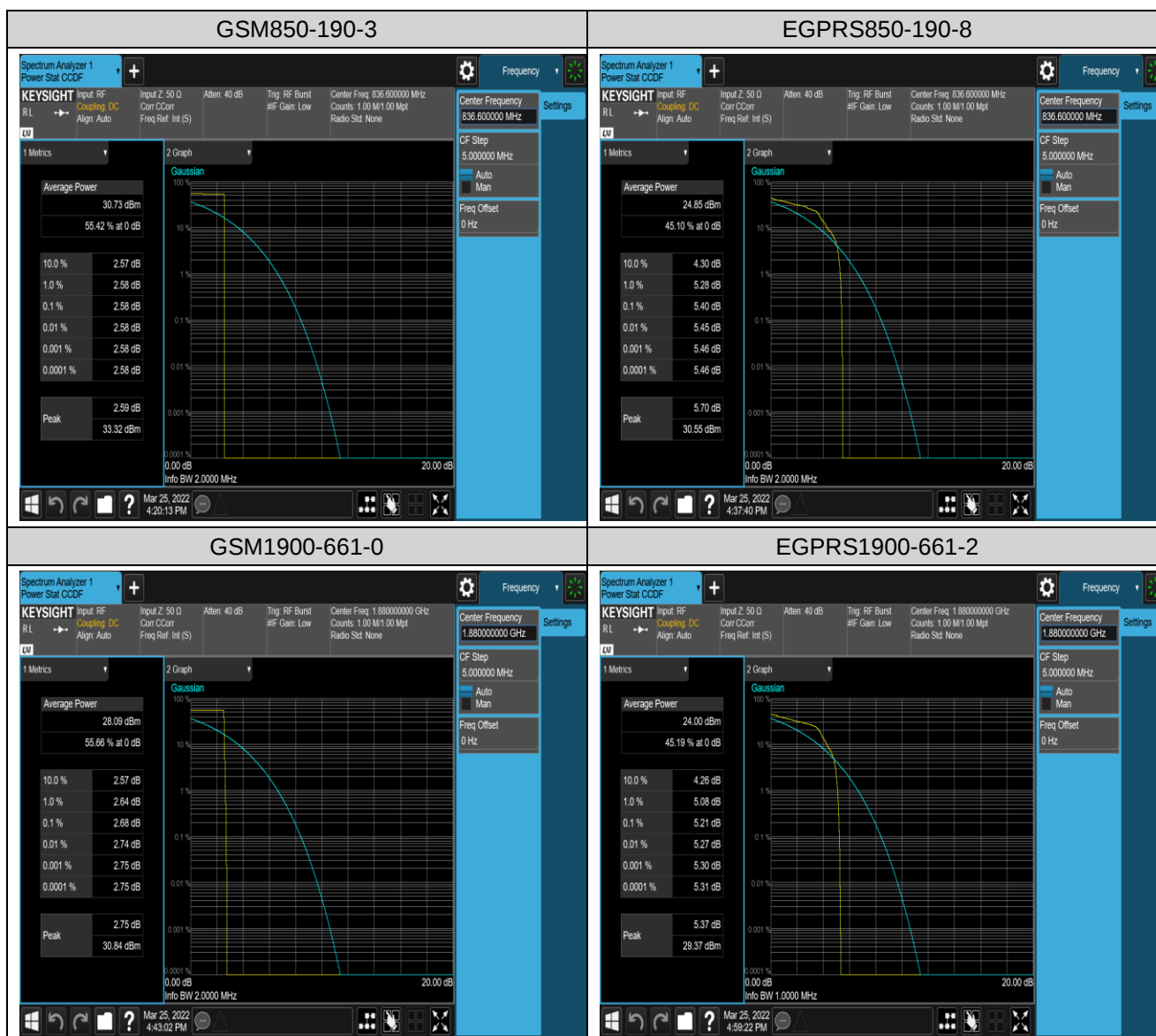
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.58	13	PASS
EGPRS850	190	8	5.4	13	PASS
GSM1900	661	0	2.68	13	PASS
EGPRS1900	661	2	5.21	13	PASS

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

Test Graphs

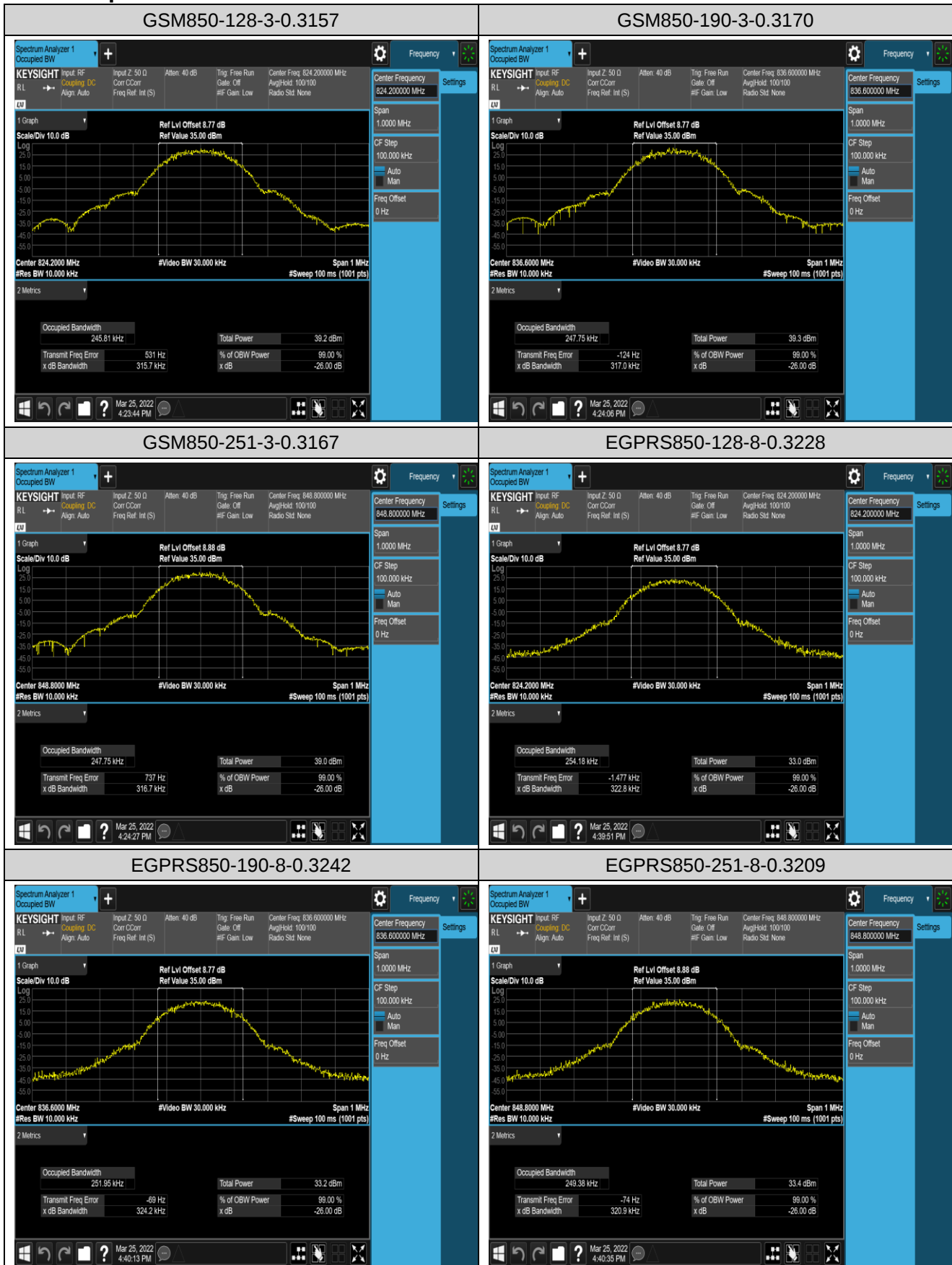


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24581	0.3157	---	PASS
GSM850	190	5	0.24775	0.3170	---	PASS
GSM850	251	5	0.24775	0.3167	---	PASS
EGPRS850	128	8	0.25418	0.3228	---	PASS
EGPRS850	190	8	0.25195	0.3242	---	PASS
EGPRS850	251	8	0.24938	0.3209	---	PASS
GSM1900	512	0	0.24473	0.3159	---	PASS
GSM1900	661	0	0.24742	0.3107	---	PASS
GSM1900	810	0	0.24583	0.3170	---	PASS
EGPRS1900	512	2	0.25516	0.3218	---	PASS
EGPRS1900	661	2	0.25305	0.3262	---	PASS
EGPRS1900	810	2	0.25409	0.3273	---	PASS

Test Graphs

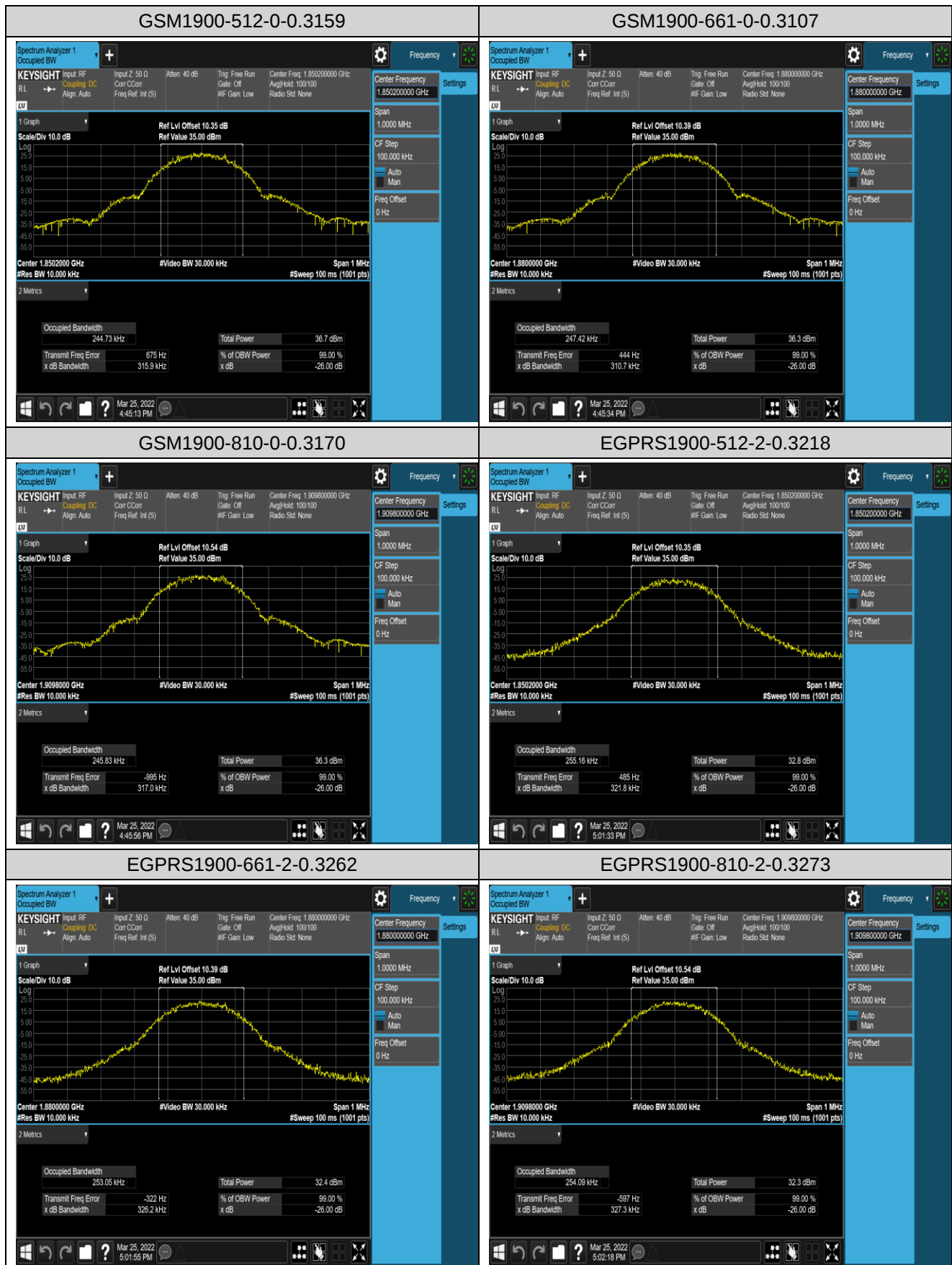


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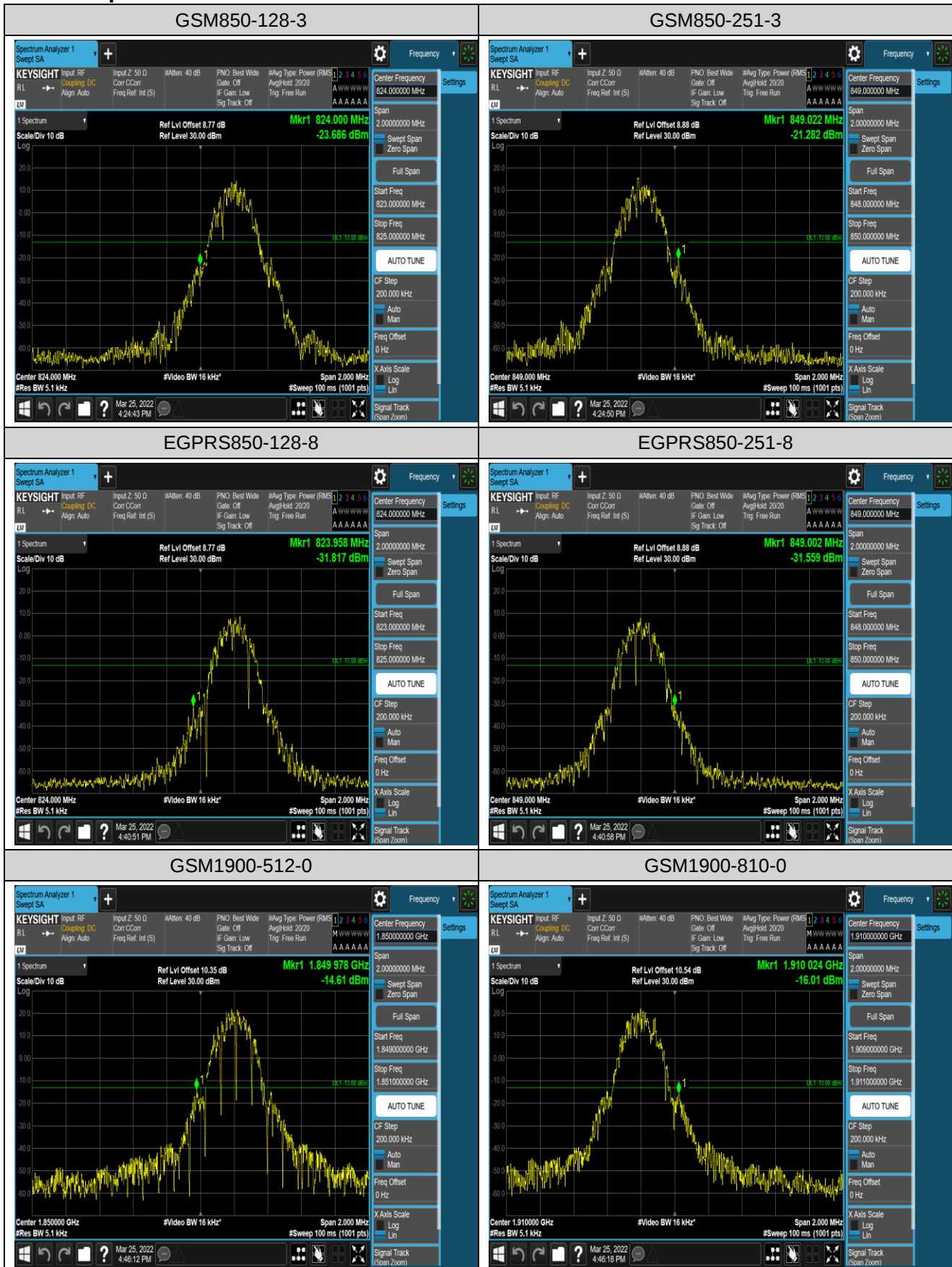


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.000	-23.686	-13	PASS
GSM850	251	5	849.022	-21.282	-13	PASS
EGPRS850	128	8	823.958	-31.817	-13	PASS
EGPRS850	251	8	849.002	-31.559	-13	PASS
GSM1900	512	0	1849.978	-14.61	-13	PASS
GSM1900	810	0	1910.024	-16.01	-13	PASS
EGPRS1900	512	2	1849.994	-22.34	-13	PASS
EGPRS1900	810	2	1910.012	-20.59	-13	PASS

Test Graphs

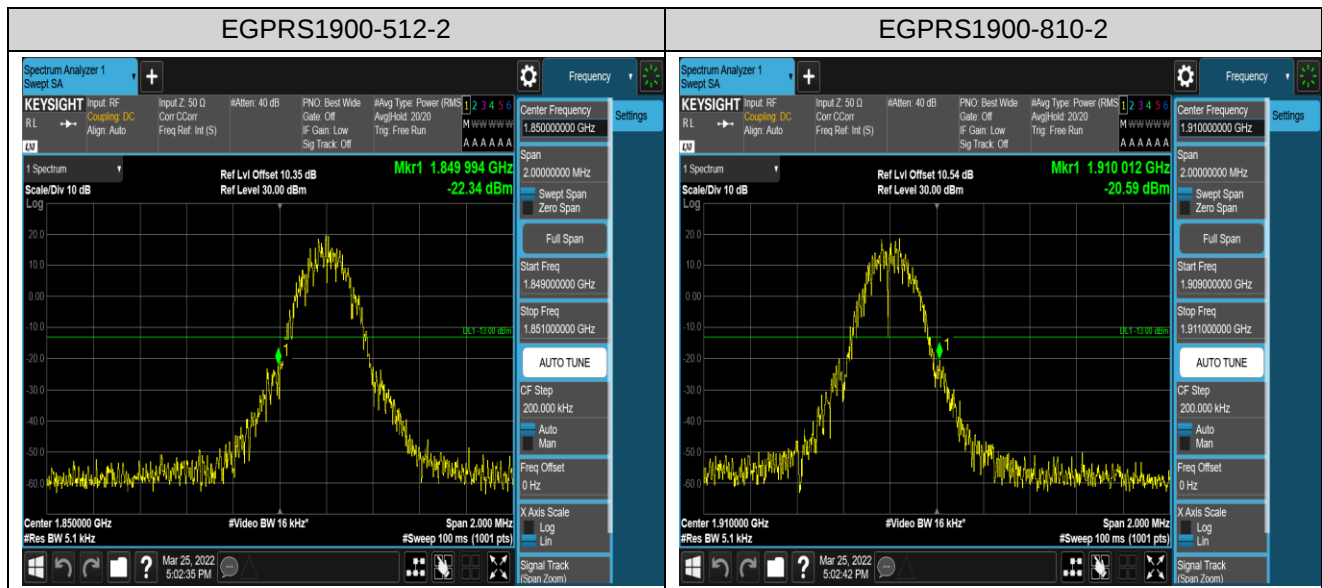


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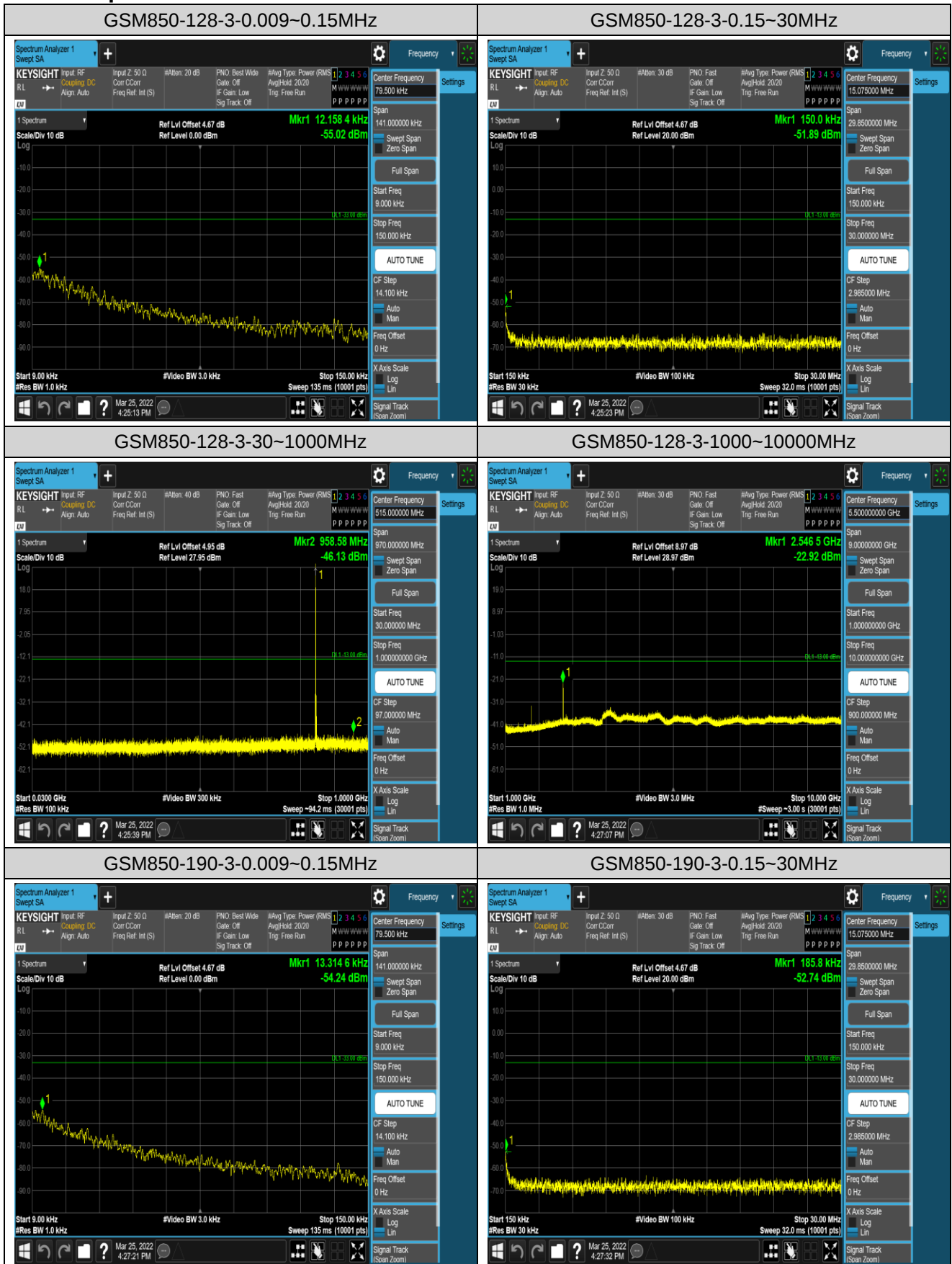
Appendix E: Conducted Spurious Emission

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	-55.02	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-51.89	-13	PASS
GSM850	128	5	30~1000MHz	958.58	-46.13	-13	PASS
GSM850	128	5	1000~10000MHz	2546.5	-22.92	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.24	-33	PASS
GSM850	190	5	0.15~30MHz	0.19	-52.74	-13	PASS
GSM850	190	5	30~1000MHz	951.27	-46.02	-13	PASS
GSM850	190	5	1000~10000MHz	2546.5	-22.79	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.43	-33	PASS
GSM850	251	5	0.15~30MHz	0.18	-52.39	-13	PASS
GSM850	251	5	30~1000MHz	448.1	-46.17	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-22.81	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.15	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-52.23	-23	PASS
GSM1900	512	0	30~1000MHz	944.52	-46.13	-13	PASS
GSM1900	512	0	1000~18000MHz	3762.5	-34.54	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.58	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-52.18	-23	PASS
GSM1900	661	0	30~1000MHz	476.01	-45.99	-13	PASS
GSM1900	661	0	1000~18000MHz	3754.57	-34.59	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.93	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-52.36	-23	PASS
GSM1900	810	0	30~1000MHz	828.31	-45.62	-13	PASS
GSM1900	810	0	1000~18000MHz	3676.93	-34.25	-13	PASS

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

Test Graphs

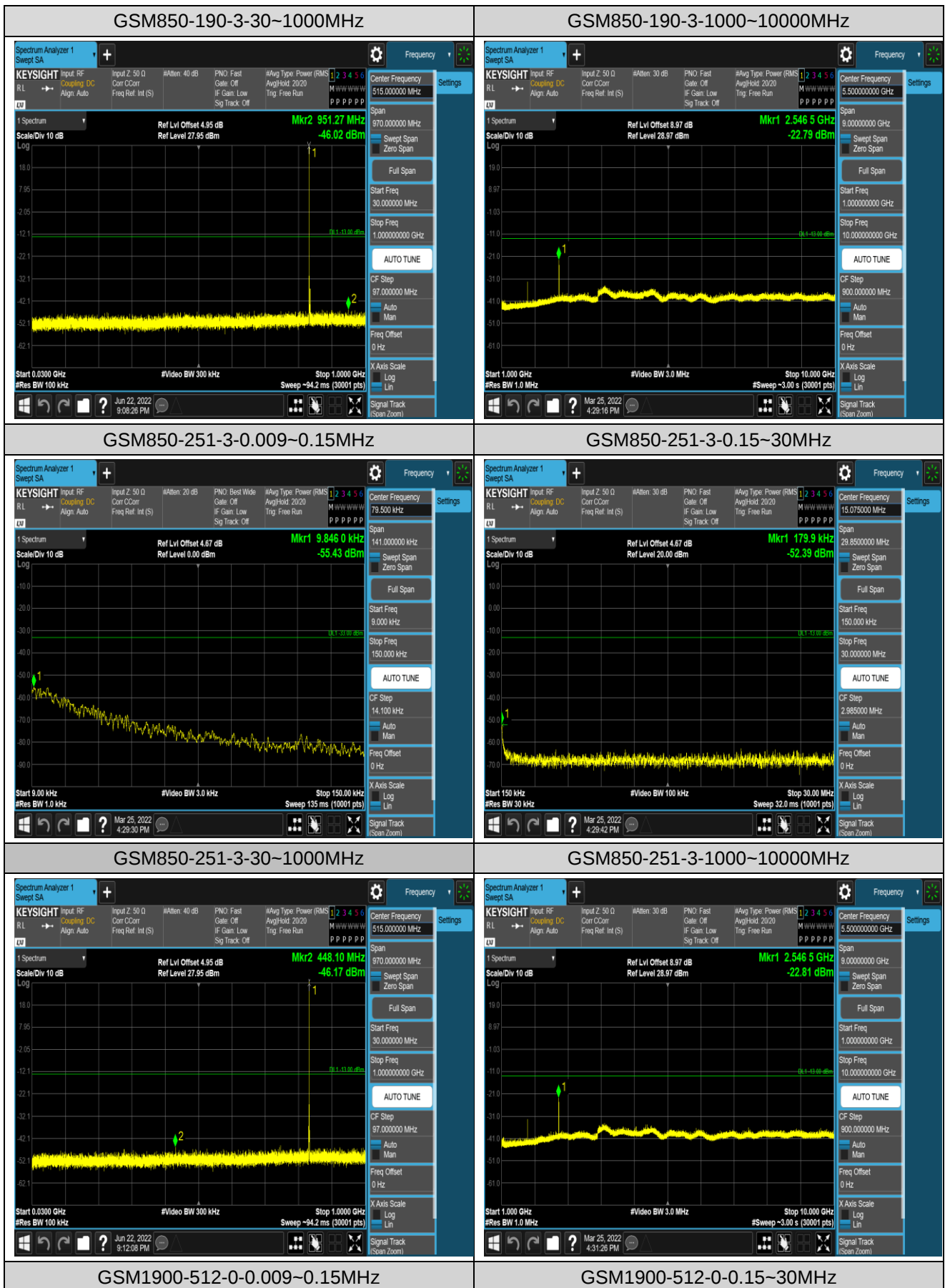


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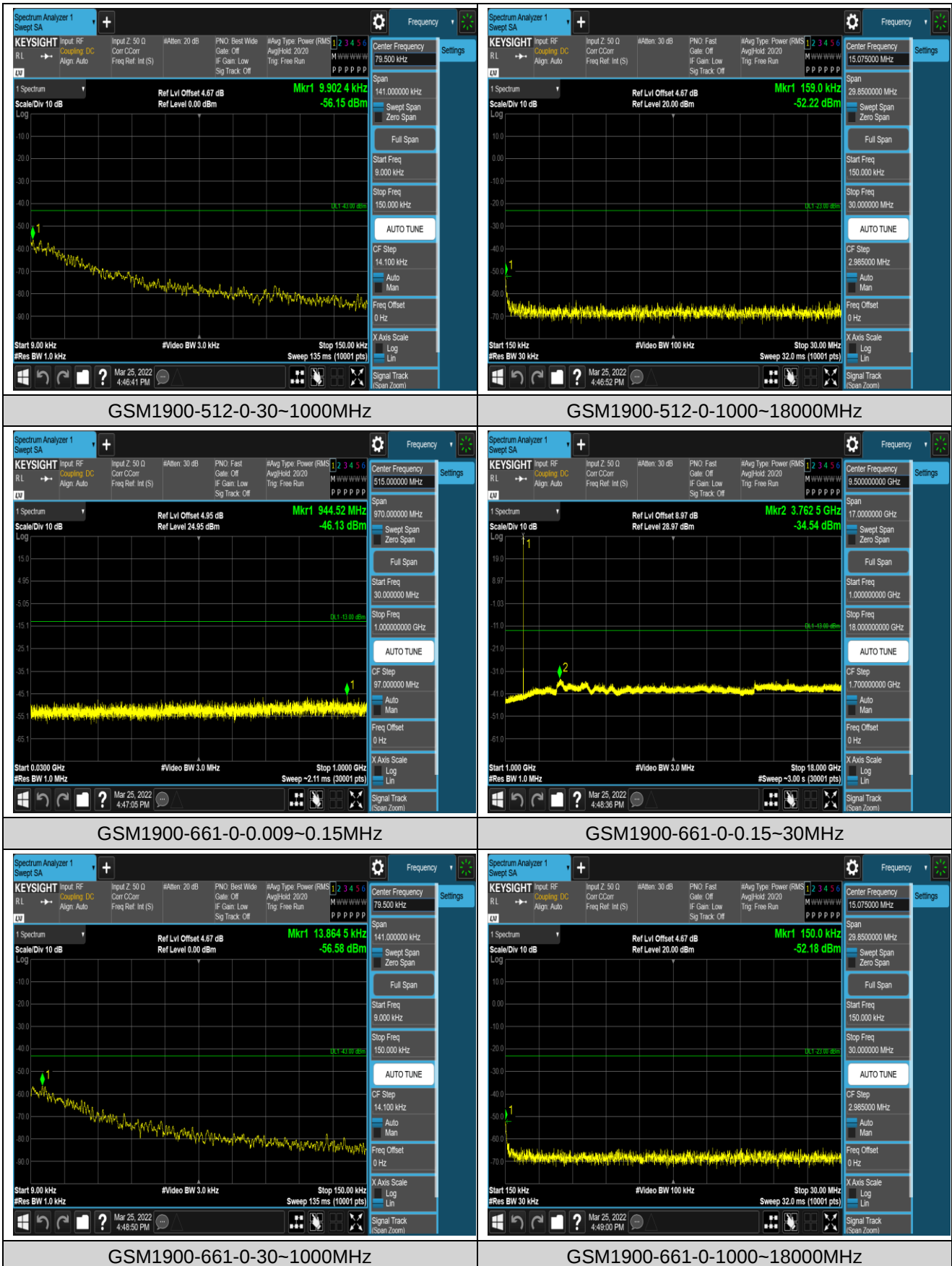


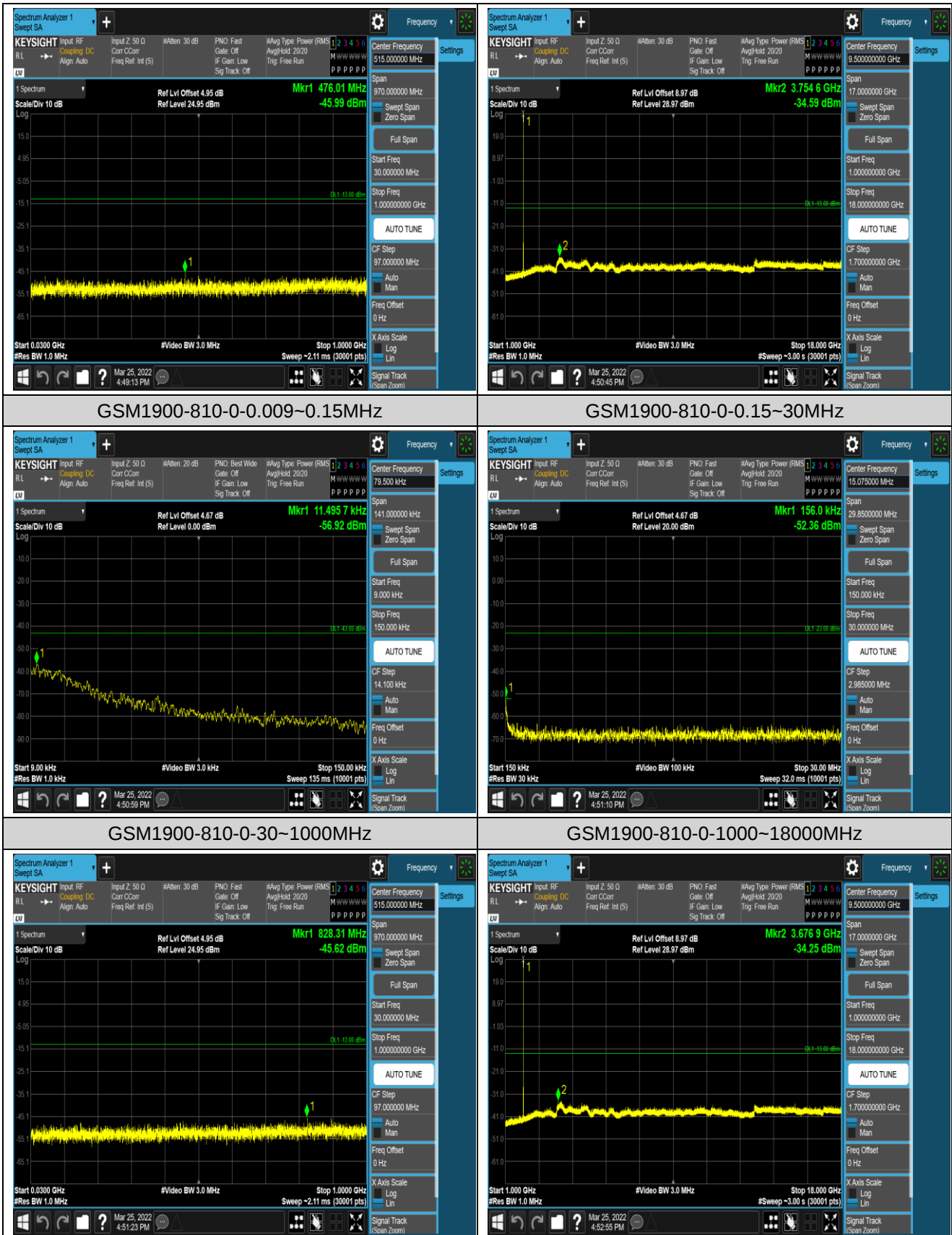
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-6.33	-0.007566	±2.5	Pass
	-20	-6.23	-0.007447		
	-10	-3.42	-0.004088		
	0	-5.26	-0.006287		
	10	-6.17	-0.007375		
	20	-5.65	-0.006754		
	30	-4.58	-0.005475		
	40	-3.42	-0.004088		
	50	-6.65	-0.007949		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-6.17	-0.007375	±2.5	Pass
	3.85	-4.39	-0.005247		
	4.40	-6.75	-0.008068		
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		
3.85	-30	-7.88	-0.009419	±2.5	Pass
	-20	-6.10	-0.007291		
	-10	-3.10	-0.003705		
	0	-1.10	-0.001315		
	10	-2.26	-0.002701		
	20	-1.78	-0.002128		
	30	-3.29	-0.003933		
	40	-4.29	-0.005128		
	50	-3.13	-0.003741		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-4.23	-0.005056	±2.5	Pass
	3.85	-4.00	-0.004781		
	4.40	-4.23	-0.005056		
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	-4.23	-0.002250	Within authorized band for PCS 1900	Pass
	-20	-2.16	-0.001149		
	-10	-2.36	-0.001255		
	0	-2.20	-0.001170		
	10	-6.75	-0.003590		
	20	-3.49	-0.001856		
	30	-3.71	-0.001973		
	40	-5.55	-0.002952		
	50	-3.39	-0.001803		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-2.39	-0.001271	Within authorized band for PCS 1900	Pass
	3.85	-0.55	-0.000293		
	4.40	-5.33	-0.002835		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-4.00	-0.002128	Within authorized band for PCS 1900	Pass
	-20	5.13	0.002729		
	-10	3.42	0.001819		
	0	9.72	0.005170		
	10	8.43	0.004484		
	20	8.85	0.004707		
	30	10.36	0.005511		
	40	2.42	0.001287		
	50	5.46	0.002904		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-10.33	-0.005495	Within authorized band for PCS 1900	Pass
	3.85	-9.56	-0.005085		
	4.40	-11.01	-0.005856		
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

