

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	32.57	29.92	38.45	PASS
GSM850	190	5	32.72	30.07	38.45	PASS
GSM850	251	5	32.79	30.14	38.45	PASS
GSM1900	512	0	28.83	27.8	33.00	PASS
GSM1900	661	0	29.01	27.98	33.00	PASS
GSM1900	810	0	28.66	27.63	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.53	29.88	38.45	PASS
GPRS850	128	5	2	30.43	27.78	38.45	PASS
GPRS850	128	5	3	28.65	26	38.45	PASS
GPRS850	128	5	4	26.70	24.05	38.45	PASS
GPRS850	190	5	1	32.66	30.01	38.45	PASS
GPRS850	190	5	2	30.58	27.93	38.45	PASS
GPRS850	190	5	3	28.82	26.17	38.45	PASS
GPRS850	190	5	4	26.86	24.21	38.45	PASS
GPRS850	251	5	1	32.77	30.12	38.45	PASS
GPRS850	251	5	2	30.52	27.87	38.45	PASS
GPRS850	251	5	3	28.74	26.09	38.45	PASS
GPRS850	251	5	4	26.72	24.07	38.45	PASS
GPRS1900	512	0	1	28.87	27.84	33.00	PASS
GPRS1900	512	0	2	26.50	25.47	33.00	PASS
GPRS1900	512	0	3	25.12	24.09	33.00	PASS
GPRS1900	512	0	4	23.12	22.09	33.00	PASS
GPRS1900	661	0	1	29.15	28.12	33.00	PASS
GPRS1900	661	0	2	26.82	25.79	33.00	PASS
GPRS1900	661	0	3	25.40	24.37	33.00	PASS
GPRS1900	661	0	4	23.39	22.36	33.00	PASS
GPRS1900	810	0	1	28.79	27.76	33.00	PASS
GPRS1900	810	0	2	26.50	25.47	33.00	PASS
GPRS1900	810	0	3	25.07	24.04	33.00	PASS
GPRS1900	810	0	4	23.07	22.04	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	25.26	22.61	38.45	PASS
EGPRS850	128	8	2	24.11	21.46	38.45	PASS
EGPRS850	128	8	3	22.17	19.52	38.45	PASS
EGPRS850	128	8	4	19.83	17.18	38.45	PASS
EGPRS850	190	8	1	25.61	22.96	38.45	PASS
EGPRS850	190	8	2	24.47	21.82	38.45	PASS
EGPRS850	190	8	3	22.54	19.89	38.45	PASS
EGPRS850	190	8	4	20.21	17.56	38.45	PASS
EGPRS850	251	8	1	25.33	22.68	38.45	PASS
EGPRS850	251	8	2	24.15	21.5	38.45	PASS
EGPRS850	251	8	3	22.19	19.54	38.45	PASS
EGPRS850	251	8	4	19.95	17.3	38.45	PASS
EGPRS1900	512	2	1	24.73	23.7	33.00	PASS
EGPRS1900	512	2	2	22.96	21.93	33.00	PASS
EGPRS1900	512	2	3	20.85	19.82	33.00	PASS
EGPRS1900	512	2	4	18.81	17.78	33.00	PASS
EGPRS1900	661	2	1	24.85	23.82	33.00	PASS
EGPRS1900	661	2	2	23.13	22.1	33.00	PASS
EGPRS1900	661	2	3	20.99	19.96	33.00	PASS
EGPRS1900	661	2	4	18.92	17.89	33.00	PASS
EGPRS1900	810	2	1	24.41	23.38	33.00	PASS
EGPRS1900	810	2	2	22.66	21.63	33.00	PASS
EGPRS1900	810	2	3	20.59	19.56	33.00	PASS
EGPRS1900	810	2	4	18.54	17.51	33.00	PASS

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

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

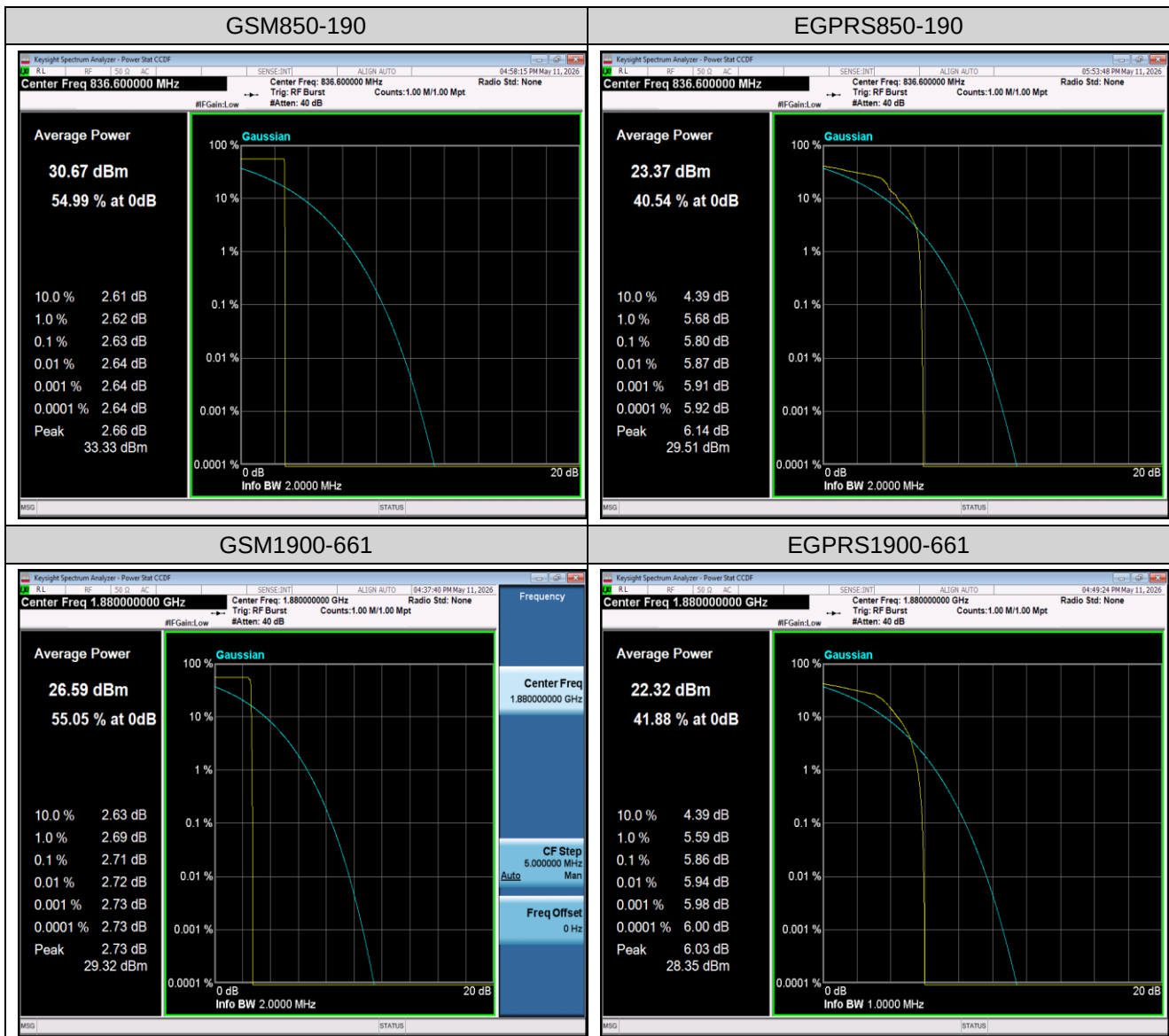
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.63	13	PASS
EGPRS850	190	8	5.8	13	PASS
GSM1900	661	0	2.71	13	PASS
EGPRS1900	661	2	5.86	13	PASS

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

Test Graphs

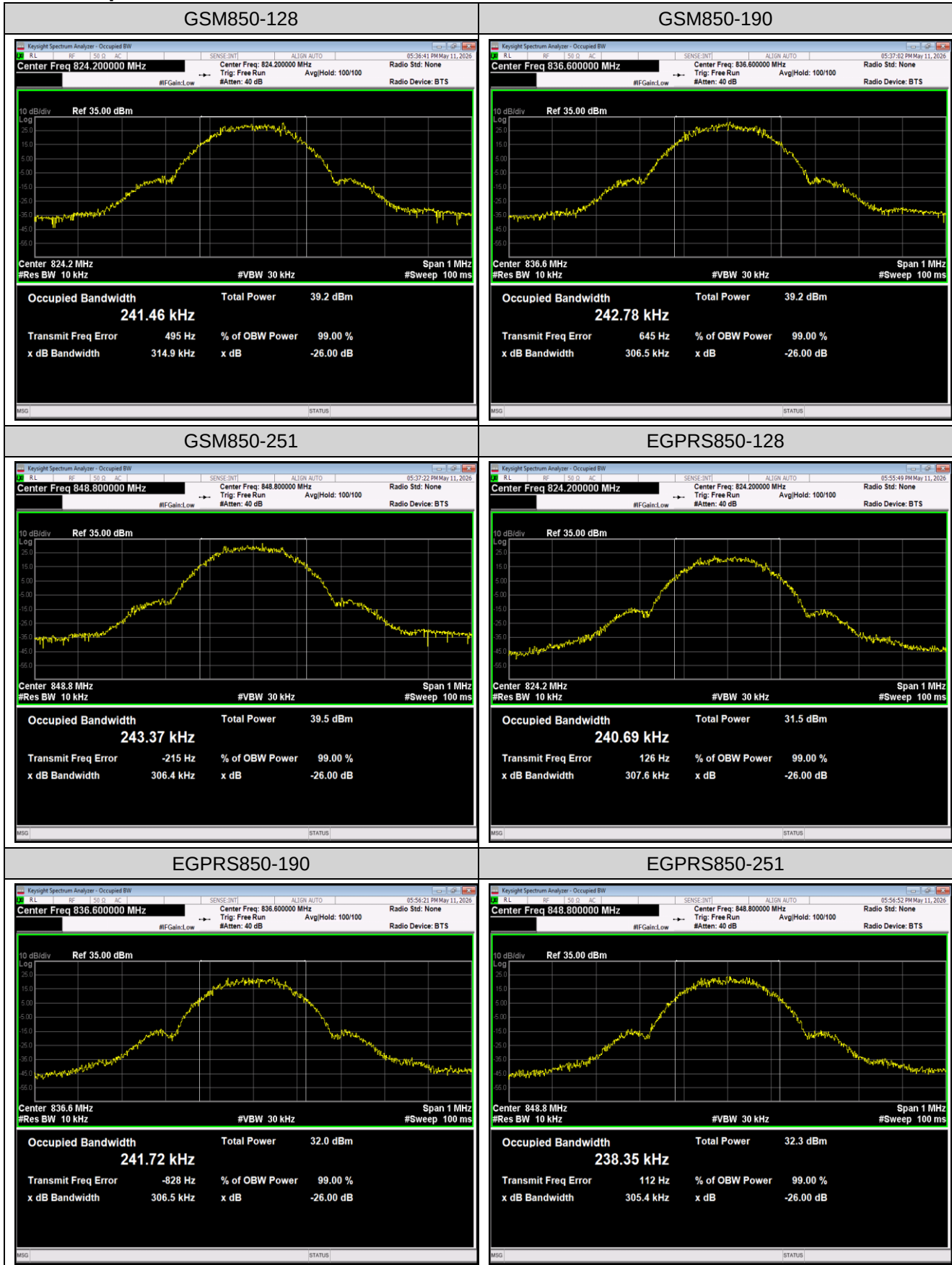


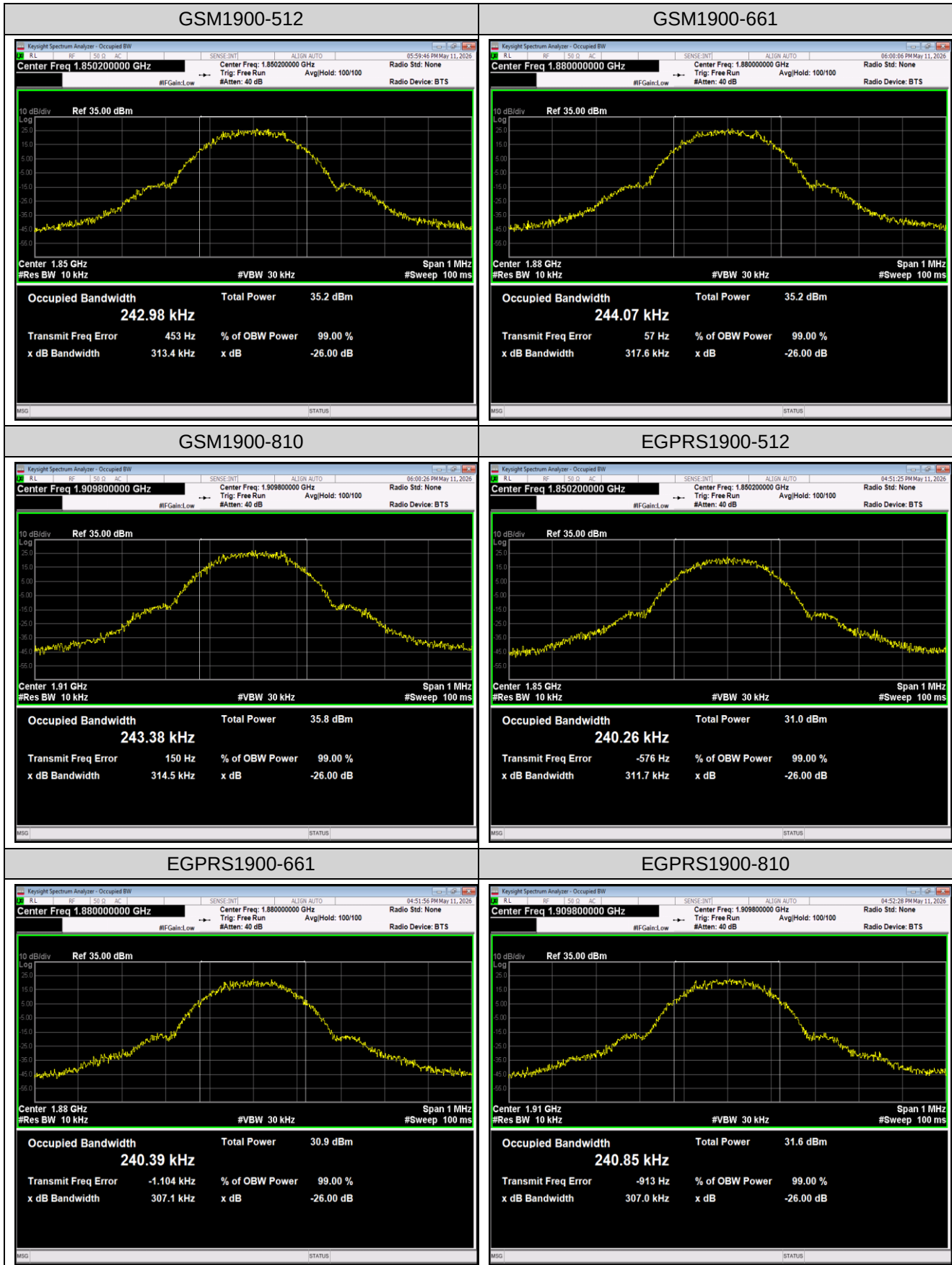
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24146	0.3149	---	PASS
GSM850	190	5	0.24278	0.3065	---	PASS
GSM850	251	5	0.24337	0.3064	---	PASS
EGPRS850	128	8	0.24069	0.3076	---	PASS
EGPRS850	190	8	0.24172	0.3065	---	PASS
EGPRS850	251	8	0.23835	0.3054	---	PASS
GSM1900	512	0	0.24298	0.3134	---	PASS
GSM1900	661	0	0.24407	0.3176	---	PASS
GSM1900	810	0	0.24338	0.3145	---	PASS
EGPRS1900	512	2	0.24026	0.3117	---	PASS
EGPRS1900	661	2	0.24039	0.3071	---	PASS
EGPRS1900	810	2	0.24085	0.3070	---	PASS

Test Graphs



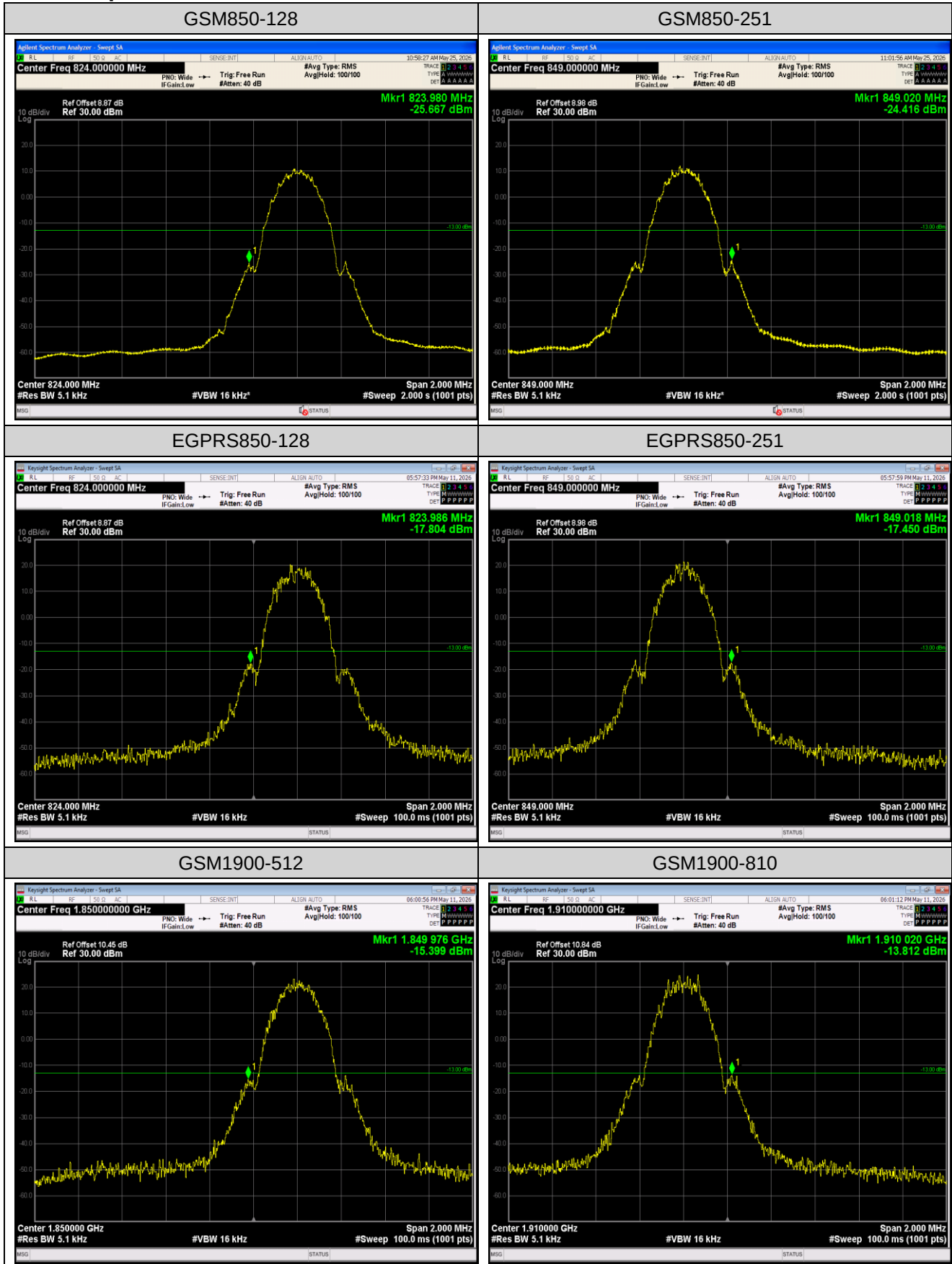


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-25.67	-13	PASS
GSM850	251	5	849.02	-24.42	-13	PASS
EGPRS850	128	8	823.99	-17.80	-13	PASS
EGPRS850	251	8	849.02	-17.45	-13	PASS
GSM1900	512	0	1849.98	-15.40	-13	PASS
GSM1900	810	0	1910.02	-13.81	-13	PASS
EGPRS1900	512	2	1850.00	-20.23	-13	PASS
EGPRS1900	810	2	1910.01	-17.46	-13	PASS

Test Graphs

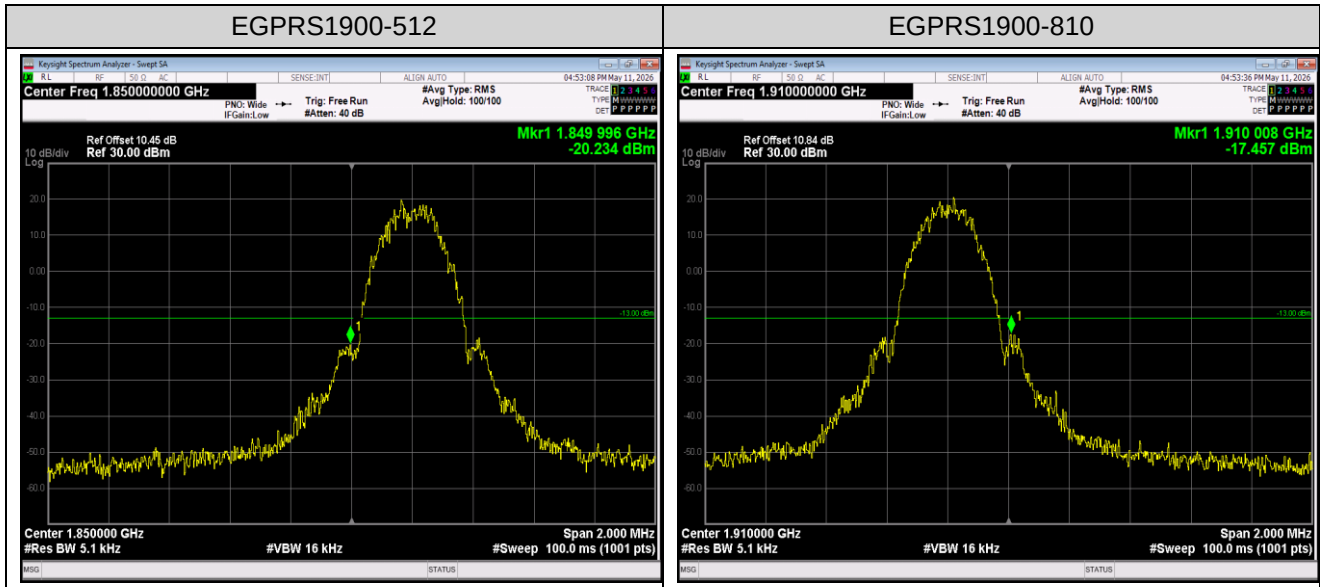


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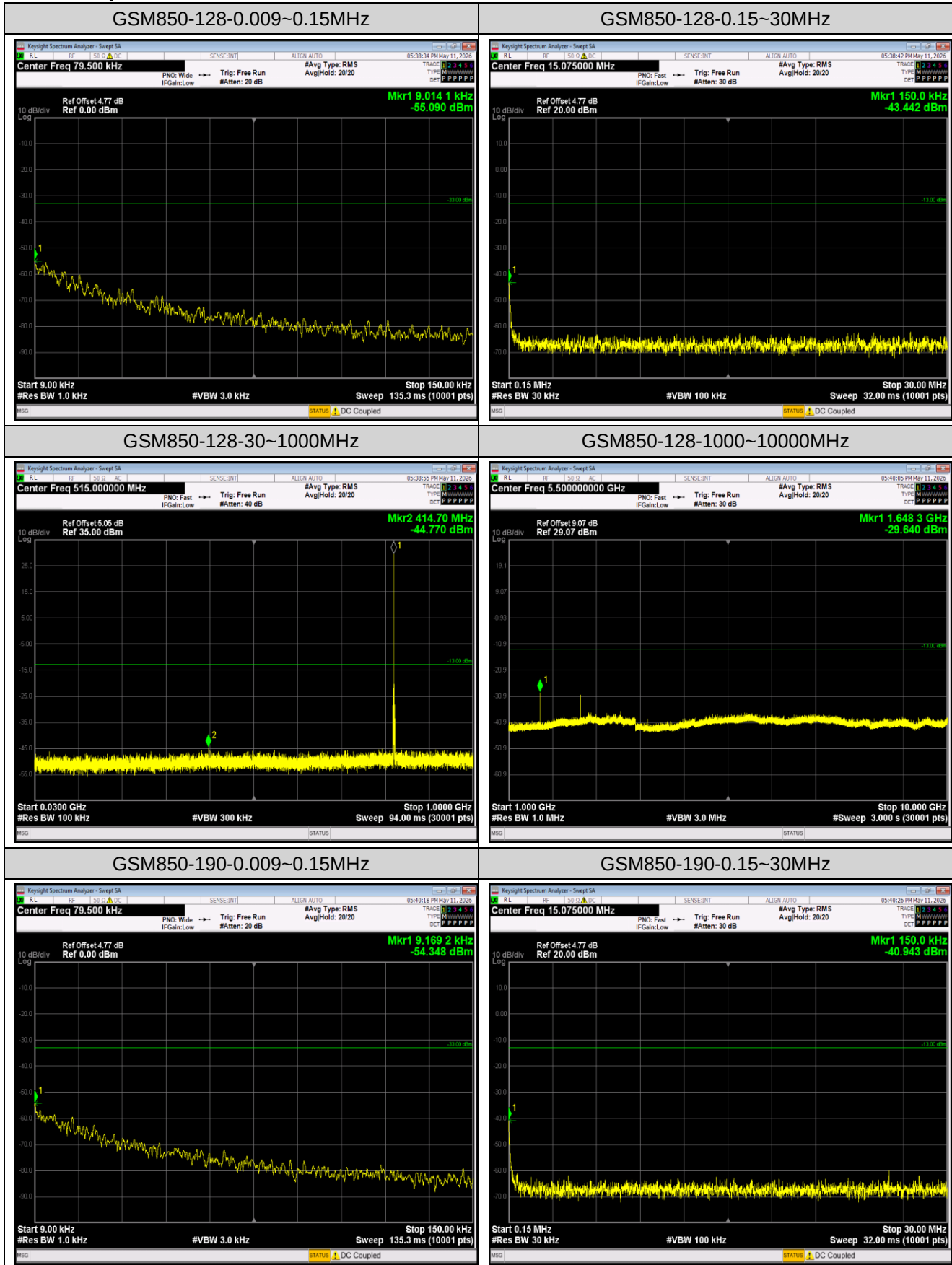
Appendix E: Conducted Spurious Emission

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	-55.09	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-43.44	-13	PASS
GSM850	128	5	30~1000MHz	414.7	-44.77	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-29.64	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.35	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-40.94	-13	PASS
GSM850	190	5	30~1000MHz	712.01	-44.43	-13	PASS
GSM850	190	5	1000~10000MHz	1672.9	-29.76	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.67	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.95	-13	PASS
GSM850	251	5	30~1000MHz	454.34	-45.16	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-29.72	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.53	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.12	-23	PASS
GSM1900	512	0	30~1000MHz	970.58	-44.65	-13	PASS
GSM1900	512	0	1000~18000MHz	17036.1	-22.01	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.79	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.07	-23	PASS
GSM1900	661	0	30~1000MHz	762.96	-45.8	-13	PASS
GSM1900	661	0	1000~18000MHz	16952.23	-21.81	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.65	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-39.84	-23	PASS
GSM1900	810	0	30~1000MHz	603.82	-44.27	-13	PASS
GSM1900	810	0	1000~18000MHz	17048.57	-22.1	-13	PASS

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

Test Graphs

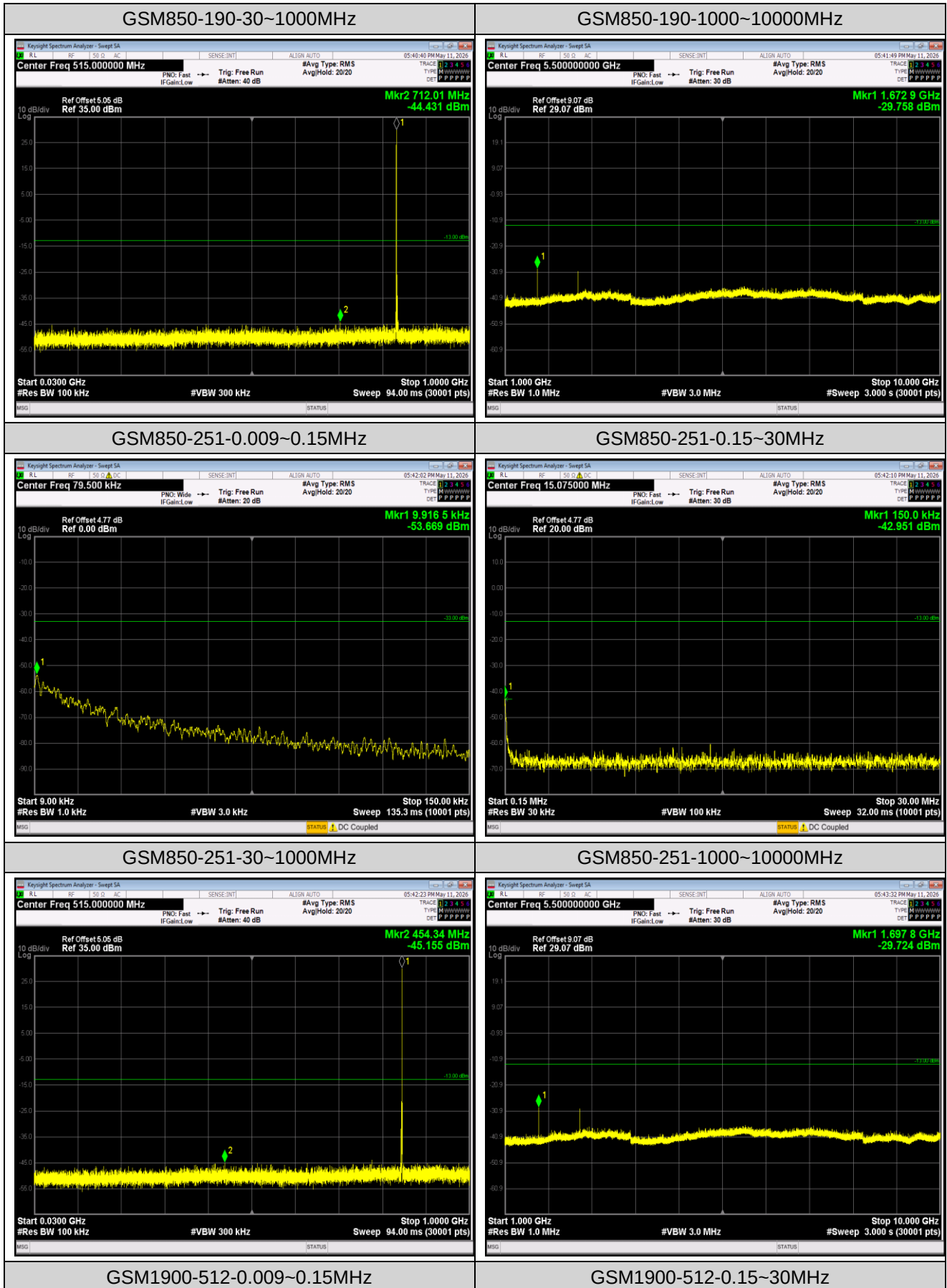


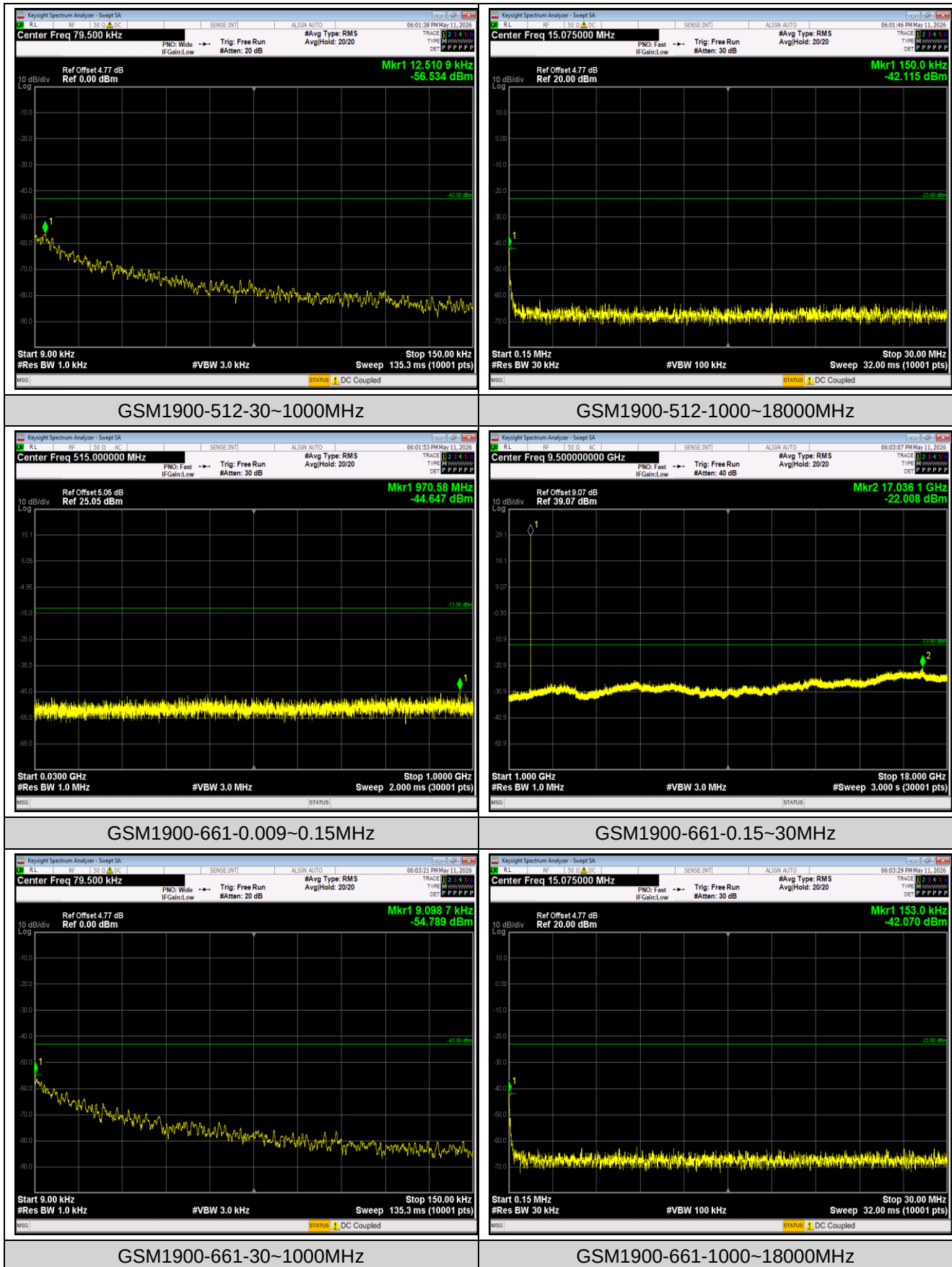
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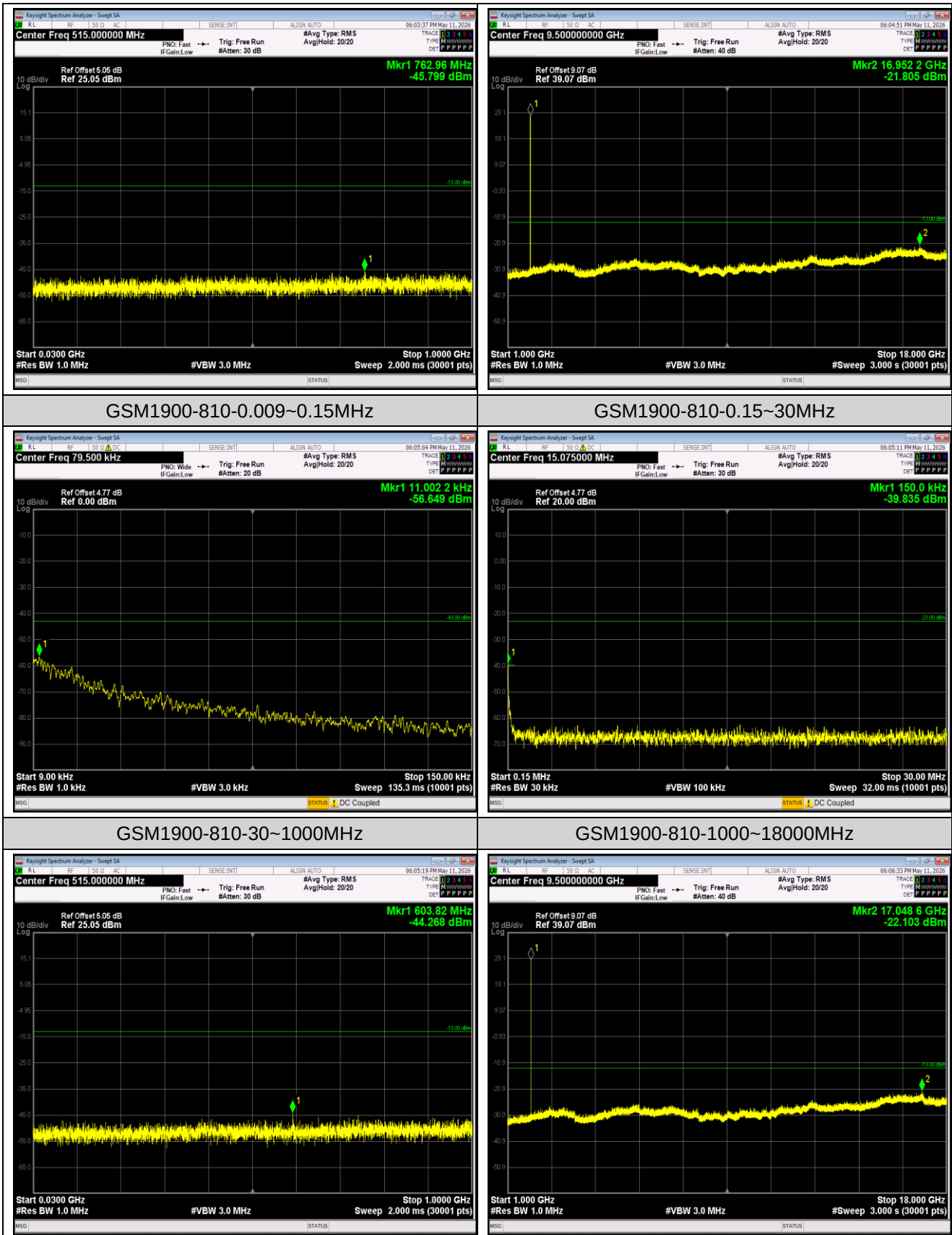
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	-3.20	-0.003825	±2.5	Pass
	-20	6.84	0.008176		
	-10	3.87	0.004626		
	0	5.10	0.006096		
	10	0.87	0.001040		
	20	-6.49	-0.007758		
	30	-1.71	-0.002044		
	40	-1.00	-0.001195		
	50	-1.58	-0.001889		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	4.29	0.005128	±2.5	Pass
	3.80	-0.23	-0.000275		
	4.37	1.55	0.001853		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	5.13	0.006132	±2.5	Pass
	-20	1.13	0.001351		
	-10	5.81	0.006945		
	0	1.26	0.001506		
	10	5.84	0.006981		
	20	2.36	0.002821		
	30	-0.52	-0.000622		
	40	4.75	0.005678		
	50	2.10	0.002510		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	10.20	0.012192	±2.5	Pass
	3.80	5.20	0.006216		
	4.37	8.81	0.010531		
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		
3.80	-30	0.39	0.000207	Within authorized band for PCS 1900	Pass
	-20	6.52	0.003468		
	-10	-4.94	-0.002628		
	0	-3.62	-0.001926		
	10	-4.23	-0.002250		
	20	3.45	0.001835		
	30	-11.14	-0.005926		
	40	-7.30	-0.003883		
	50	-6.20	-0.003298		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	3.26	0.001734	Within authorized band for PCS 1900	Pass
	3.80	-15.14	-0.008053		
	4.37	-7.97	-0.004239		
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		
3.80	-30	-3.00	-0.001596	Within authorized band for PCS 1900	Pass
	-20	4.81	0.002559		
	-10	7.10	0.003777		
	0	5.10	0.002713		
	10	5.39	0.002867		
	20	-0.55	-0.000293		
	30	-6.78	-0.003606		
	40	0.65	0.000346		
	50	5.78	0.003074		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	-14.11	-0.007505	Within authorized band for PCS 1900	Pass
	3.80	-0.58	-0.000309		
	4.37	-5.55	-0.002952		
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

