

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	3	32.21	31.29	38.5	PASS
GSM850	190	3	32.37	31.45	38.5	PASS
GSM850	251	3	32.32	31.40	38.5	PASS
GSM1900	512	0	29.22	30.09	33	PASS
GSM1900	661	0	28.72	29.59	33	PASS
GSM1900	810	0	28.76	29.63	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	32.26	31.34	38.5	PASS
GPRS850	128	3	2	30.12	29.20	38.5	PASS
GPRS850	128	3	3	28.31	27.39	38.5	PASS
GPRS850	128	3	4	26.43	25.51	38.5	PASS
GPRS850	190	3	1	32.41	31.49	38.5	PASS
GPRS850	190	3	2	30.28	29.36	38.5	PASS
GPRS850	190	3	3	28.46	27.54	38.5	PASS
GPRS850	190	3	4	26.60	25.68	38.5	PASS
GPRS850	251	3	1	32.38	31.46	38.5	PASS
GPRS850	251	3	2	29.95	29.03	38.5	PASS
GPRS850	251	3	3	28.07	27.15	38.5	PASS
GPRS850	251	3	4	26.23	25.31	38.5	PASS
GPRS1900	512	0	1	29.33	30.20	33	PASS
GPRS1900	512	0	2	27.81	28.68	33	PASS
GPRS1900	512	0	3	26.75	27.62	33	PASS
GPRS1900	512	0	4	25.16	26.03	33	PASS
GPRS1900	661	0	1	28.83	29.70	33	PASS
GPRS1900	661	0	2	27.32	28.19	33	PASS
GPRS1900	661	0	3	26.24	27.11	33	PASS
GPRS1900	661	0	4	24.63	25.50	33	PASS
GPRS1900	810	0	1	28.86	29.73	33	PASS
GPRS1900	810	0	2	27.15	28.02	33	PASS
GPRS1900	810	0	3	26.03	26.90	33	PASS
GPRS1900	810	0	4	24.34	25.21	33	PASS

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

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

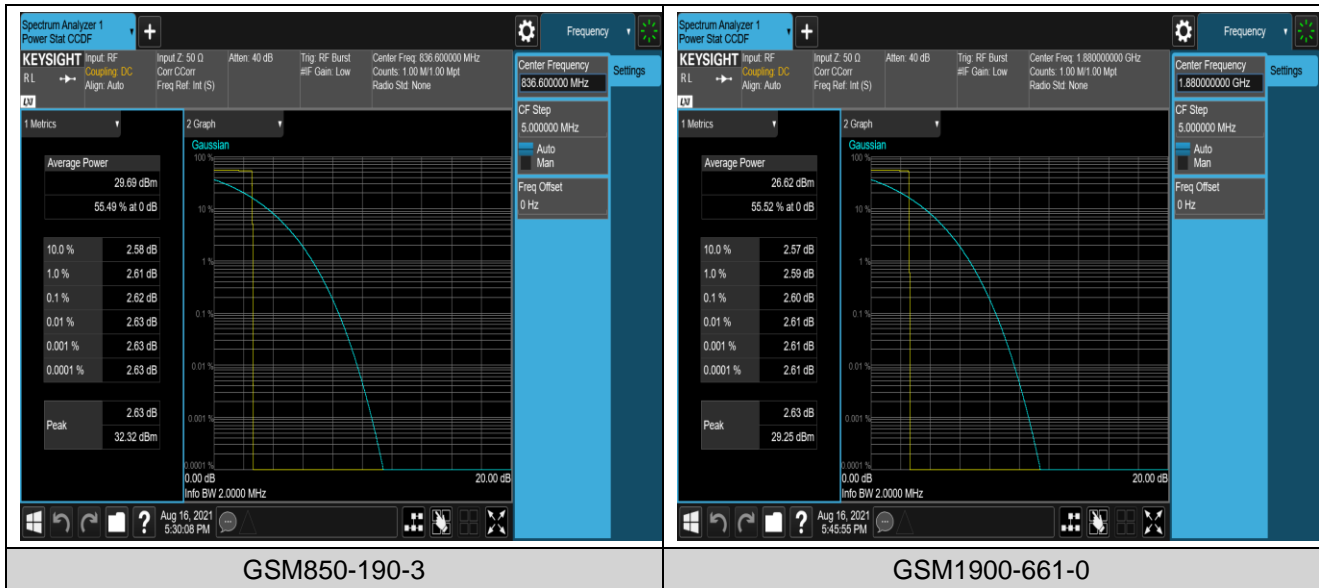
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.62	13	PASS
GSM1900	661	0	2.6	13	PASS

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

Test Graphs

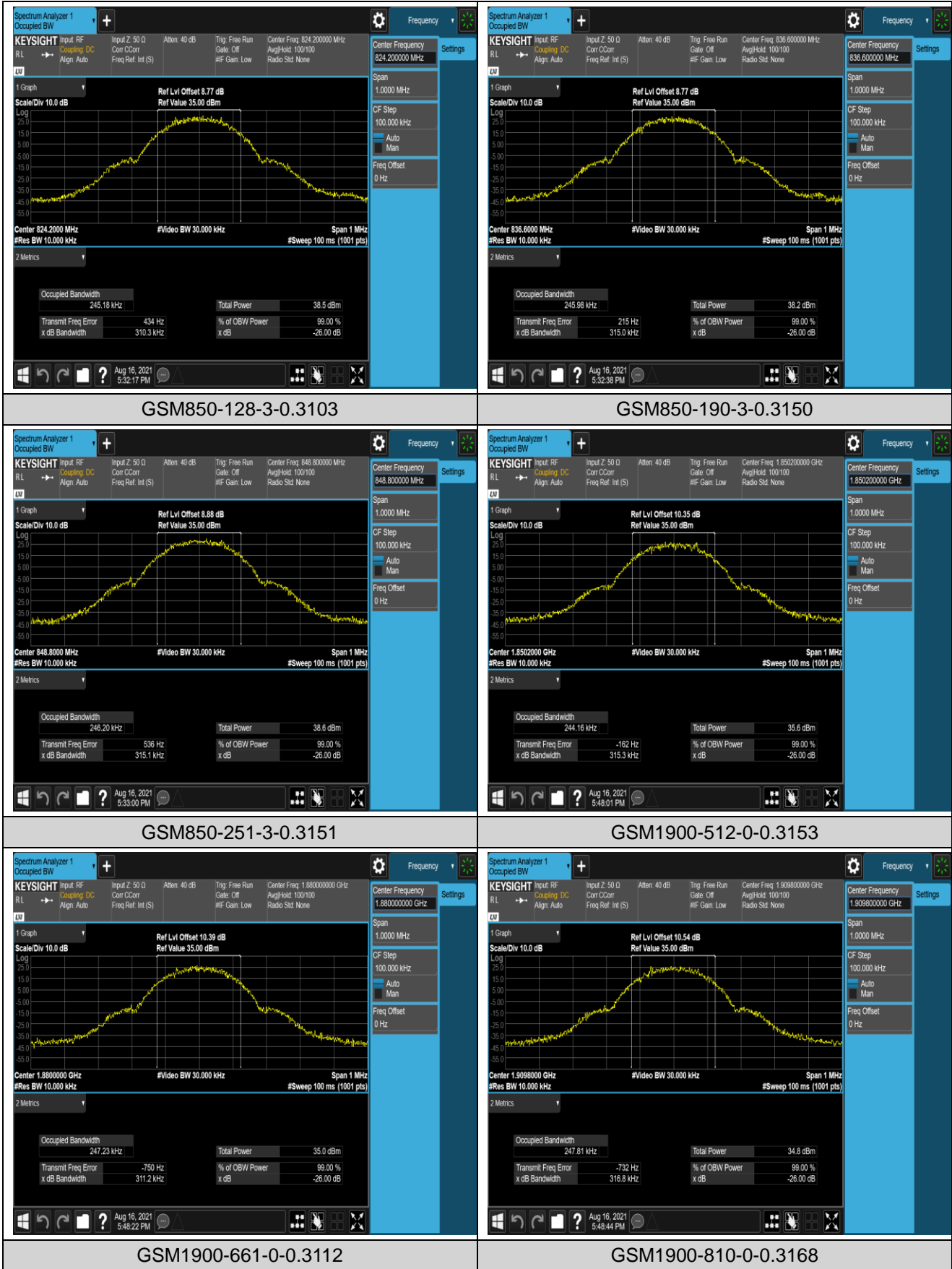


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24518	0.3103	---	PASS
GSM850	190	3	0.24598	0.3150	---	PASS
GSM850	251	3	0.24620	0.3151	---	PASS
GSM1900	512	0	0.24416	0.3153	---	PASS
GSM1900	661	0	0.24723	0.3112	---	PASS
GSM1900	810	0	0.24781	0.3168	---	PASS

Test Graphs

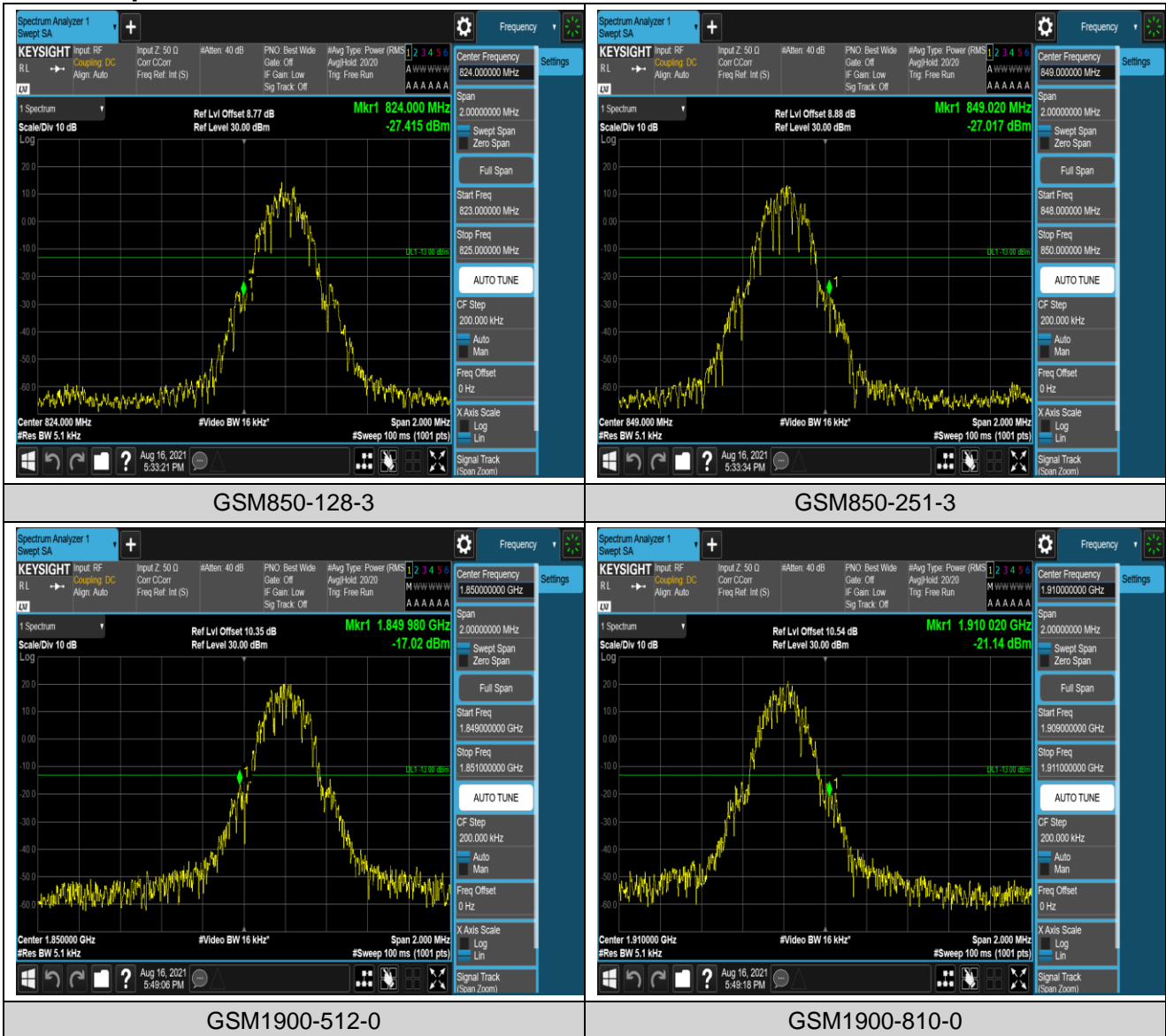


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	824.00	-22.00	-13	PASS
GSM850	251	3	849.02	-22.70	-13	PASS
GSM1900	512	0	1849.98	-15.64	-13	PASS
GSM1900	810	0	1910.02	-15.99	-13	PASS

Test Graphs



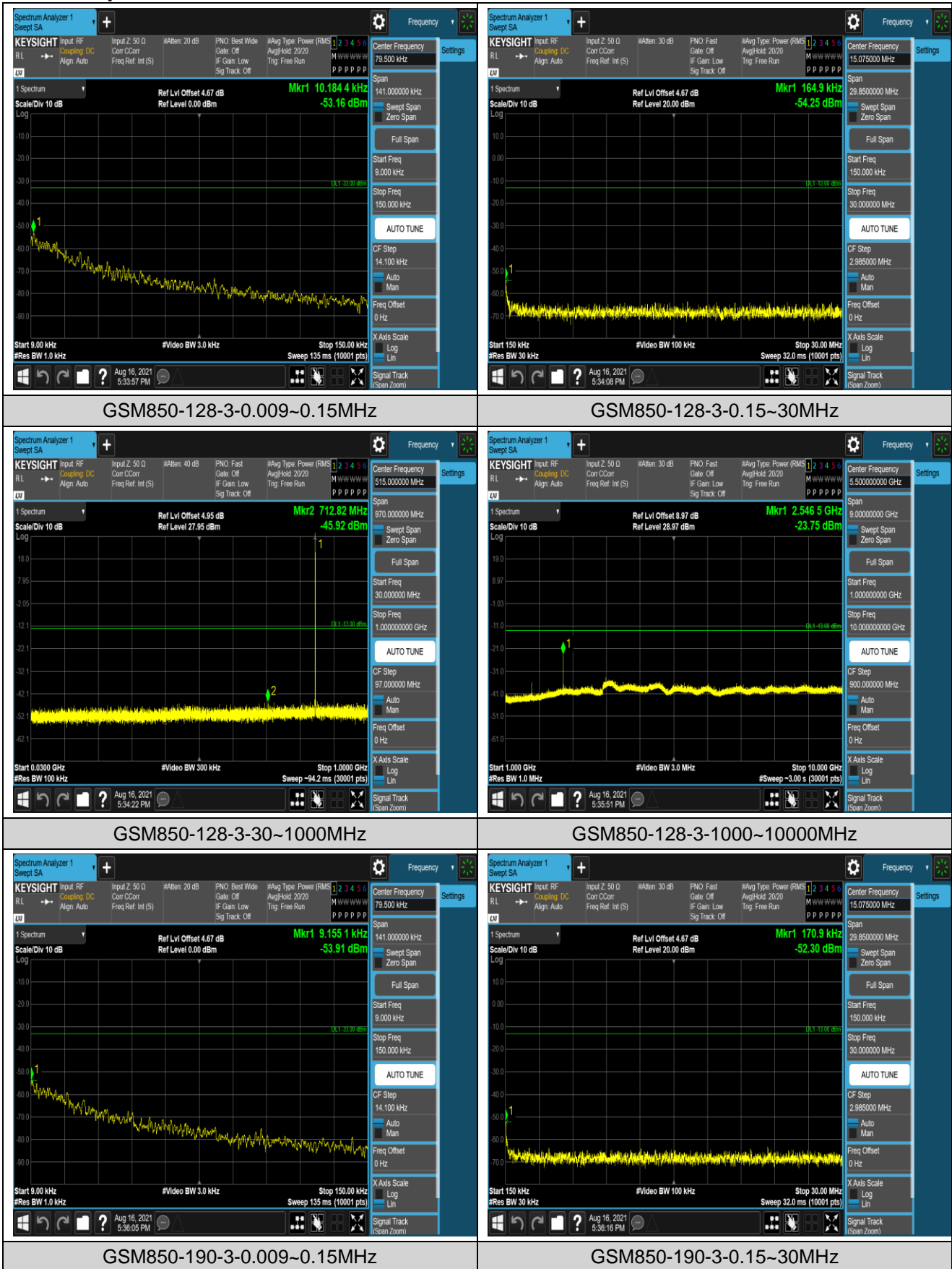
Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-53.16	-33	PASS
GSM850	128	3	0.15~30MHz	0.16	-54.25	-13	PASS
GSM850	128	3	30~1000MHz	712.82	-45.92	-13	PASS
GSM850	128	3	1000~10000MHz	2546.5	-23.75	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-53.91	-33	PASS
GSM850	190	3	0.15~30MHz	0.17	-52.3	-13	PASS
GSM850	190	3	30~1000MHz	703.63	-46.36	-13	PASS
GSM850	190	3	1000~10000MHz	2546.5	-23.64	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-54.97	-33	PASS
GSM850	251	3	0.15~30MHz	0.15	-51.94	-13	PASS
GSM850	251	3	30~1000MHz	747.96	-45.84	-13	PASS
GSM850	251	3	1000~10000MHz	2546.2	-23.41	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.17	-43	PASS
GSM1900	512	0	0.15~30MHz	0.19	-52.31	-23	PASS
GSM1900	512	0	30~1000MHz	861.71	-46.48	-13	PASS
GSM1900	512	0	1000~18000MHz	3774.4	-34.45	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.71	-43	PASS
GSM1900	661	0	0.15~30MHz	0.18	-52.86	-23	PASS
GSM1900	661	0	30~1000MHz	980.18	-46.28	-13	PASS
GSM1900	661	0	1000~18000MHz	3763.63	-34.58	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.87	-43	PASS
GSM1900	810	0	0.15~30MHz	0.18	-52.96	-23	PASS
GSM1900	810	0	30~1000MHz	847.06	-46.31	-13	PASS
GSM1900	810	0	1000~18000MHz	3870.73	-34.85	-13	PASS

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

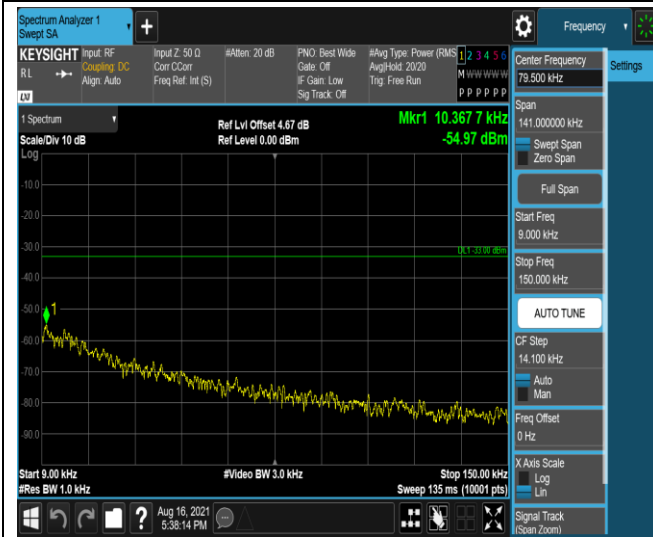
Test Graphs



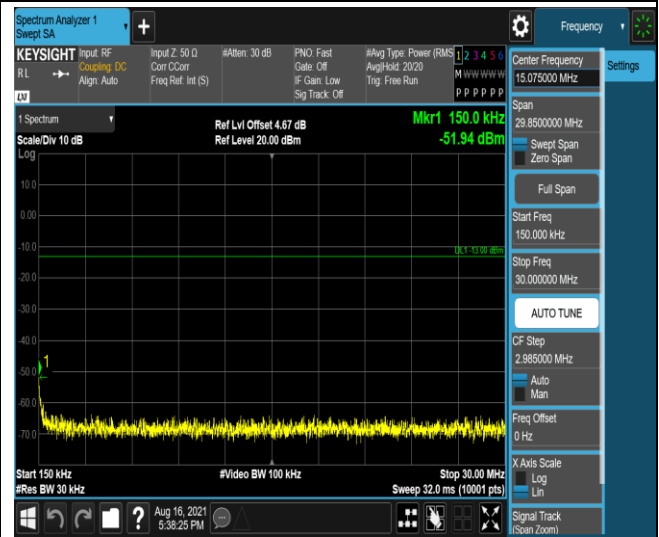


GSM850-190-3-30~1000MHz

GSM850-190-3-1000~10000MHz



GSM850-251-3-0.009~0.15MHz



GSM850-251-3-0.15~30MHz



GSM850-251-3-30~1000MHz



GSM850-251-3-1000~10000MHz



GSM1900-512-0-0.009~0.15MHz

GSM1900-512-0-0.15~30MHz



GSM1900-512-0-30~1000MHz

GSM1900-512-0-1000~18000MHz



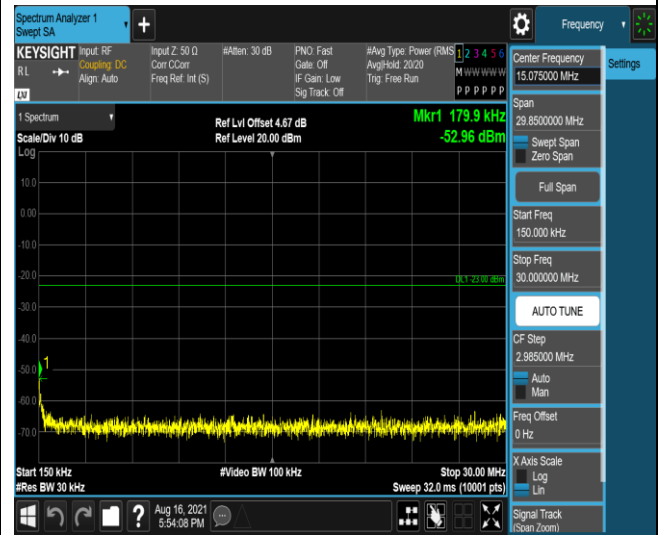
GSM1900-661-0-0.009~0.15MHz

GSM1900-661-0-0.15~30MHz



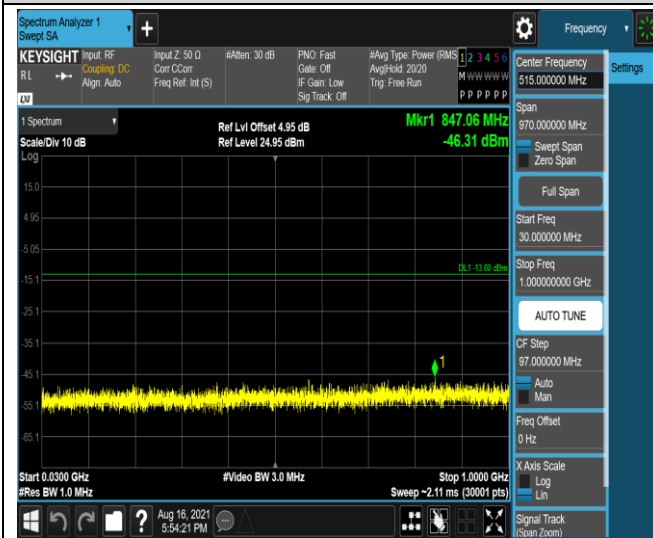
GSM1900-661-0-30~1000MHz

GSM1900-661-0-1000~18000MHz



GSM1900-810-0-0.009~0.15MHz

GSM1900-810-0-0.15~30MHz



GSM1900-810-0-30~1000MHz

GSM1900-810-0-1000~18000MHz

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		
3.80	-30	19.89	0.023775	±2.5	Pass
	-20	19.05	0.022771		
	-10	17.05	0.020380		
	0	19.02	0.022735		
	10	23.31	0.027863		
	20	19.24	0.022998		
	30	20.05	0.023966		
	40	13.98	0.016710		
	50	18.31	0.021886		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	18.89	0.022579	±2.5	Pass
	3.80	19.34	0.023117		
	4.20	16.79	0.020069		
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	17.21	0.009154	Within authorized band for PCS 1900	Pass
	-20	19.89	0.010580		
	-10	13.69	0.007282		
	0	16.72	0.008894		
	10	17.34	0.009223		
	20	16.85	0.008963		
	30	15.92	0.008468		
	40	20.31	0.010803		
	50	15.98	0.008500		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	17.79	0.009463	Within authorized band for PCS 1900	Pass
	3.80	14.95	0.007952		
	4.20	18.18	0.009670		
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

