

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	32.50	30.87	38.5	PASS
GSM850	190	3	32.53	30.9	38.5	PASS
GSM850	251	3	32.52	30.89	38.5	PASS
GSM1900	512	0	29.51	29.88	33	PASS
GSM1900	661	0	29.61	29.98	33	PASS
GSM1900	810	0	29.63	30	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	32.50	30.87	38.5	PASS
GPRS850	128	3	2	31.94	30.31	38.5	PASS
GPRS850	128	3	3	30.44	28.81	38.5	PASS
GPRS850	128	3	4	29.27	27.64	38.5	PASS
GPRS850	190	3	1	32.48	30.85	38.5	PASS
GPRS850	190	3	2	31.94	30.31	38.5	PASS
GPRS850	190	3	3	30.42	28.79	38.5	PASS
GPRS850	190	3	4	29.27	27.64	38.5	PASS
GPRS850	251	3	1	32.51	30.88	38.5	PASS
GPRS850	251	3	2	31.98	30.35	38.5	PASS
GPRS850	251	3	3	30.43	28.8	38.5	PASS
GPRS850	251	3	4	29.24	27.61	38.5	PASS
GPRS1900	512	0	1	29.46	29.83	33	PASS
GPRS1900	512	0	2	28.65	29.02	33	PASS
GPRS1900	512	0	3	26.98	27.35	33	PASS
GPRS1900	512	0	4	26.72	27.09	33	PASS
GPRS1900	661	0	1	29.57	29.94	33	PASS
GPRS1900	661	0	2	29.01	29.38	33	PASS
GPRS1900	661	0	3	27.40	27.77	33	PASS
GPRS1900	661	0	4	26.78	27.15	33	PASS
GPRS1900	810	0	1	29.56	29.93	33	PASS
GPRS1900	810	0	2	29.10	29.47	33	PASS
GPRS1900	810	0	3	27.84	28.21	33	PASS
GPRS1900	810	0	4	26.74	27.11	33	PASS

Remark: $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$. (For GSM1900)

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

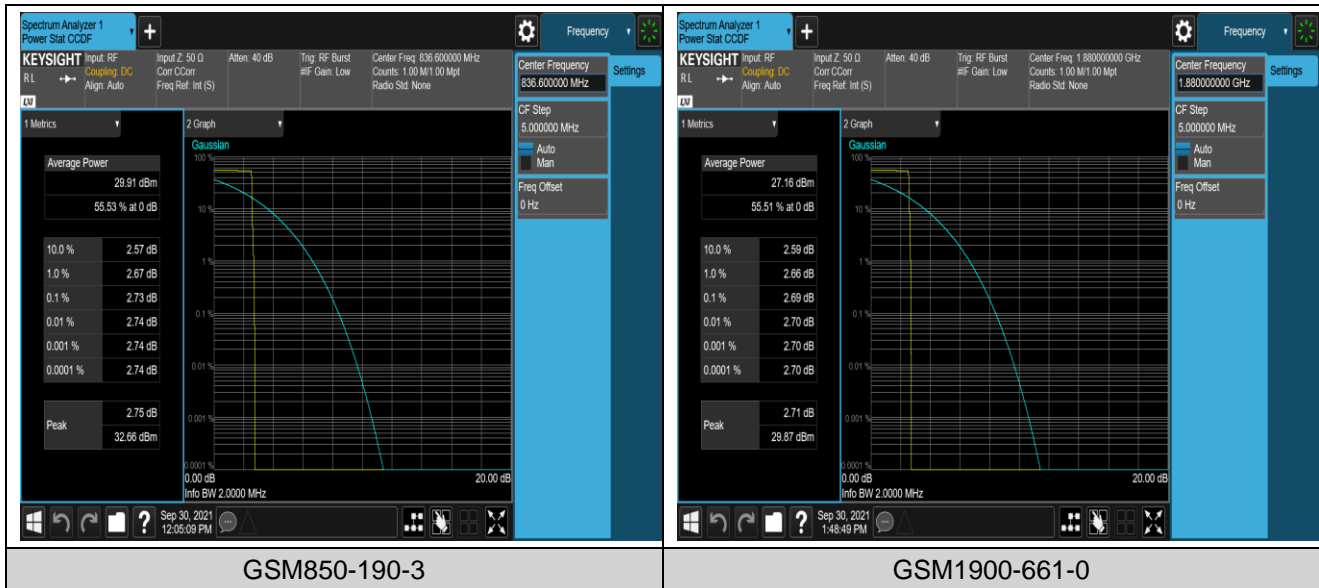
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.73	13	PASS
GSM1900	661	0	2.69	13	PASS

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

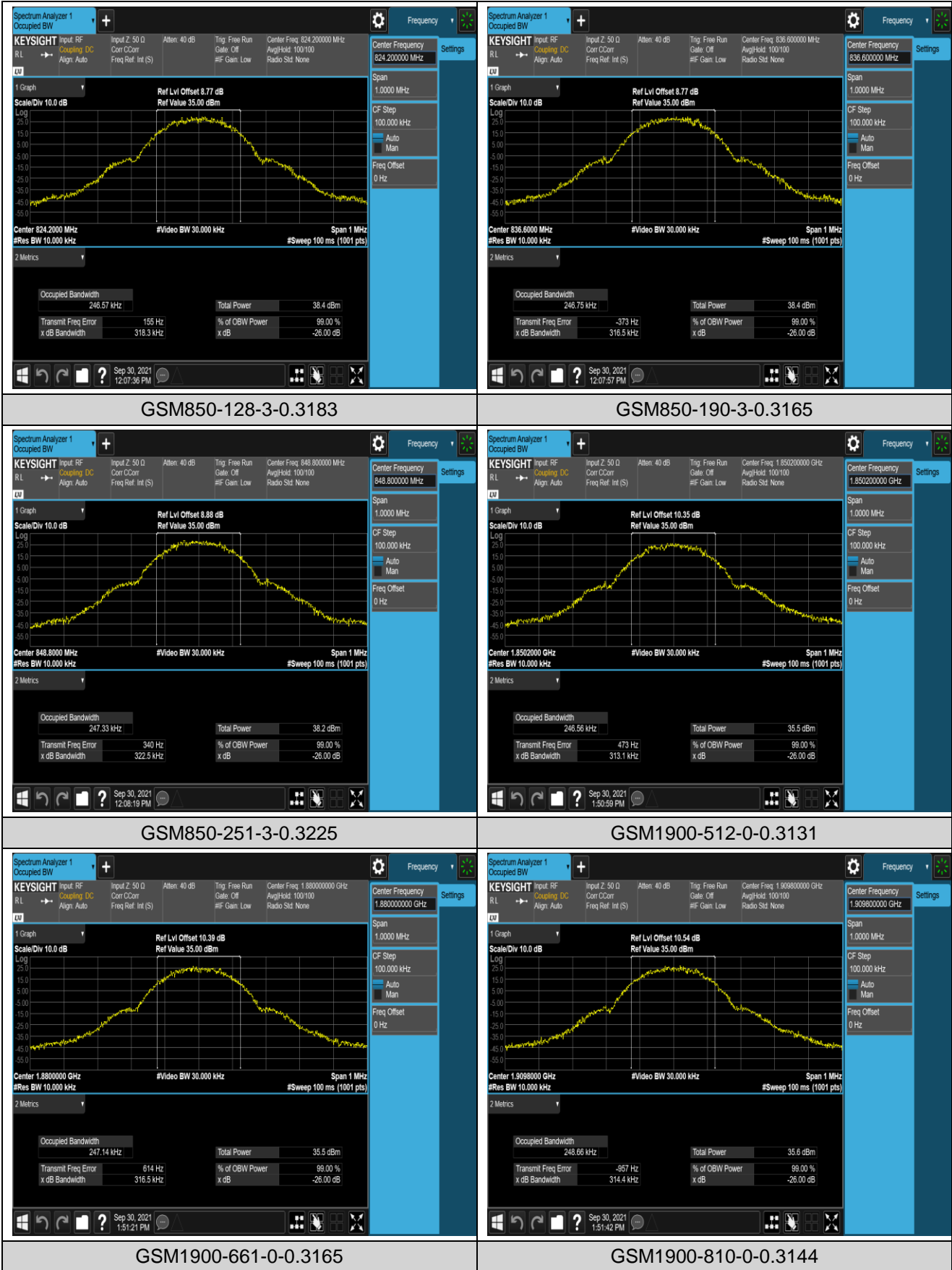
Test Graphs



Appendix C: 26dB Bandwidth and Occupied Bandwidth**Test Result**

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24657	0.3183	---	PASS
GSM850	190	3	0.24675	0.3165	---	PASS
GSM850	251	3	0.24733	0.3225	---	PASS
GSM1900	512	0	0.24656	0.3131	---	PASS
GSM1900	661	0	0.24714	0.3165	---	PASS
GSM1900	810	0	0.24866	0.3144	---	PASS

Test Graphs

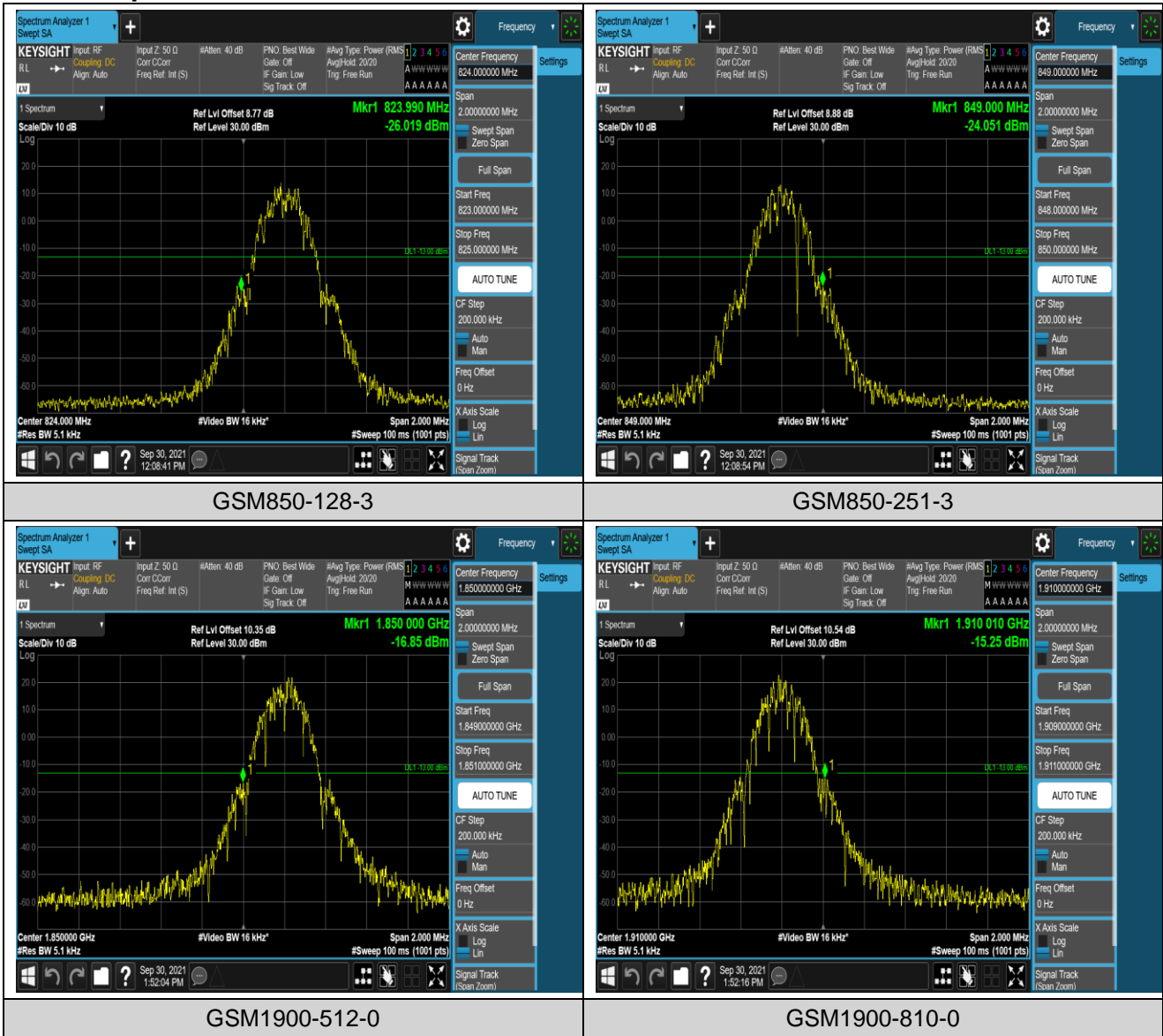


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.99	-20.77	-13	PASS
GSM850	251	3	849.00	-24.05	-13	PASS
GSM1900	512	0	1850.00	-16.85	-13	PASS
GSM1900	810	0	1910.01	-15.19	-13	PASS

Test Graphs



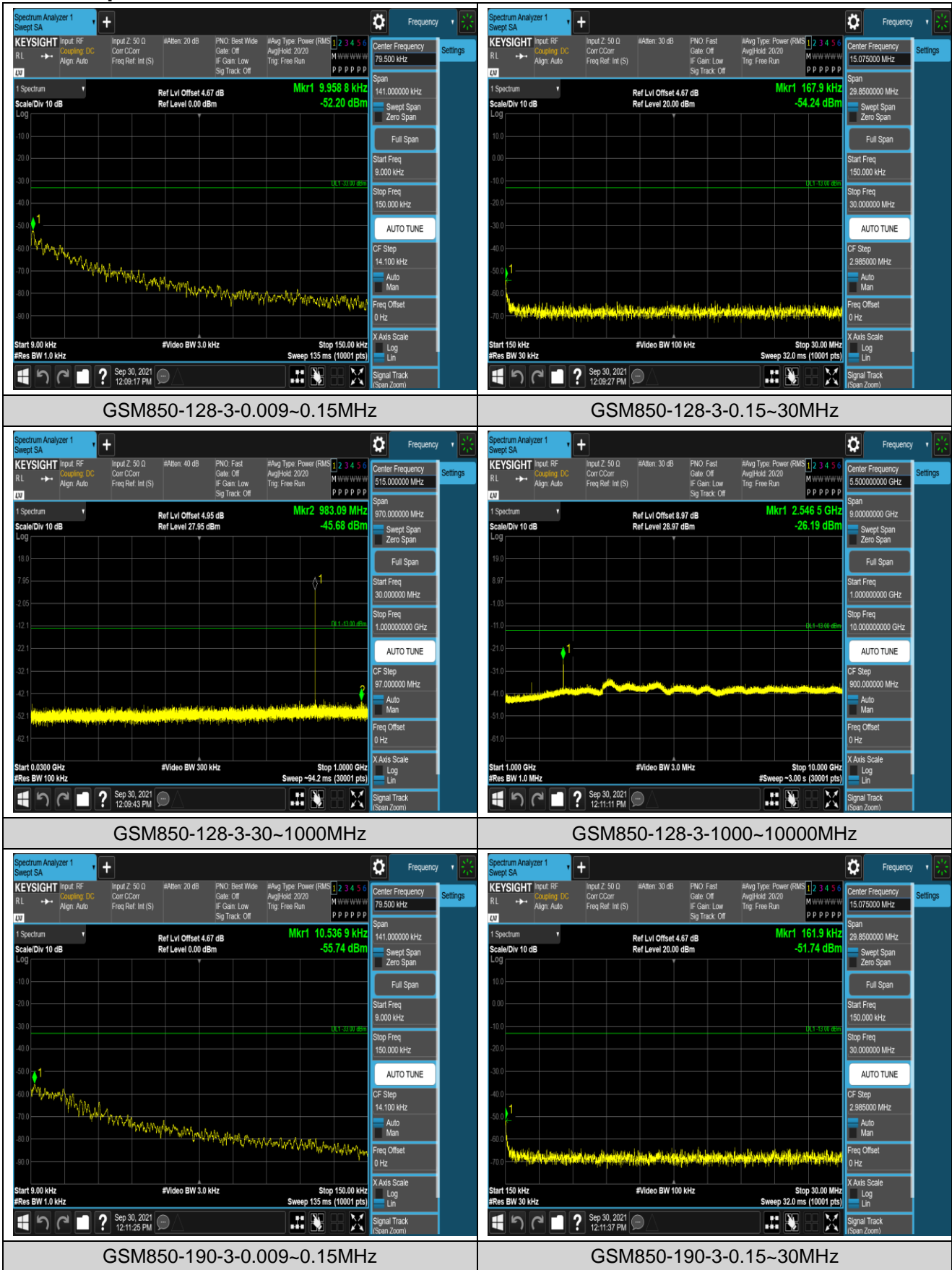
Appendix E: Conducted Spurious Emission

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	-52.2	-33	PASS
GSM850	128	3	0.15~30MHz	0.17	-54.24	-13	PASS
GSM850	128	3	30~1000MHz	983.09	-45.68	-13	PASS
GSM850	128	3	1000~10000MHz	2546.5	-26.19	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-55.74	-33	PASS
GSM850	190	3	0.15~30MHz	0.16	-51.74	-13	PASS
GSM850	190	3	30~1000MHz	526.19	-45.81	-13	PASS
GSM850	190	3	1000~10000MHz	2546.5	-25.88	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-56.05	-33	PASS
GSM850	251	3	0.15~30MHz	0.17	-53.95	-13	PASS
GSM850	251	3	30~1000MHz	655.62	-45.94	-13	PASS
GSM850	251	3	1000~10000MHz	2546.2	-26.18	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.66	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-52.23	-23	PASS
GSM1900	512	0	30~1000MHz	737.42	-46.24	-13	PASS
GSM1900	512	0	1000~18000MHz	3790.27	-34.84	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.31	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-54.06	-23	PASS
GSM1900	661	0	30~1000MHz	796.3	-47.46	-13	PASS
GSM1900	661	0	1000~18000MHz	3790.27	-34.68	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.67	-43	PASS
GSM1900	810	0	0.15~30MHz	0.17	-52.81	-23	PASS
GSM1900	810	0	30~1000MHz	994.73	-47.13	-13	PASS
GSM1900	810	0	1000~18000MHz	3820.3	-35.11	-13	PASS

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

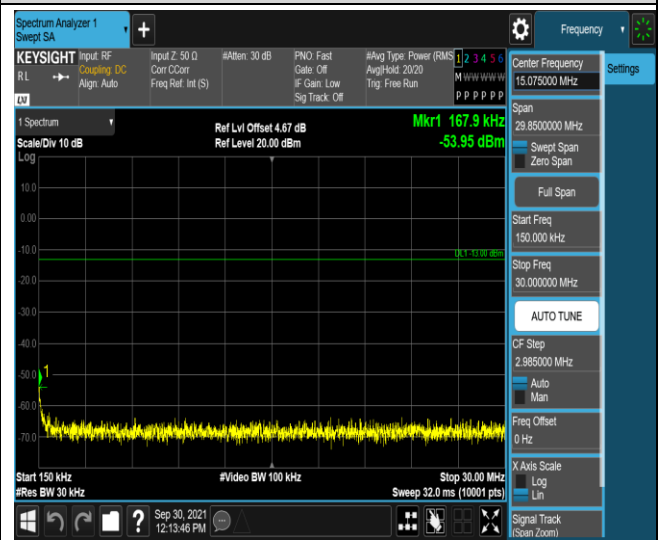
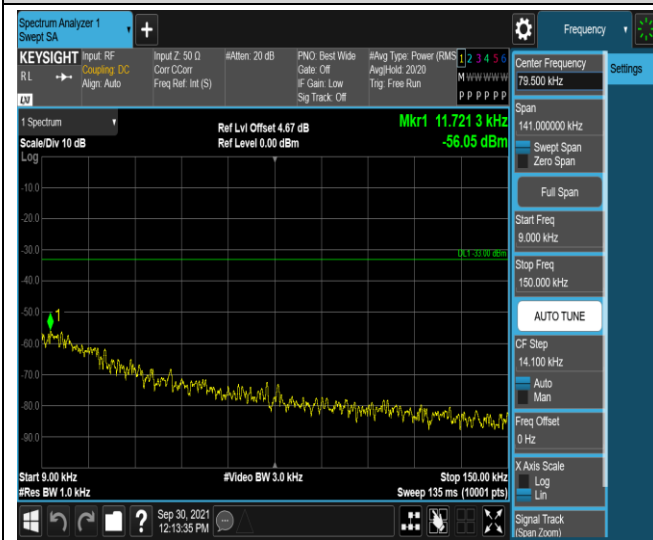
Test Graphs





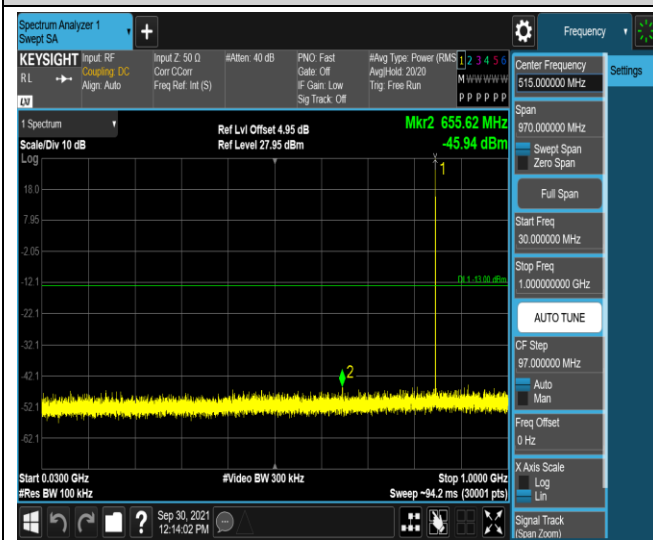
GSM850-190-3-30~1000MHz

GSM850-190-3-1000~10000MHz



GSM850-251-3-0.009~0.15MHz

GSM850-251-3-0.15~30MHz



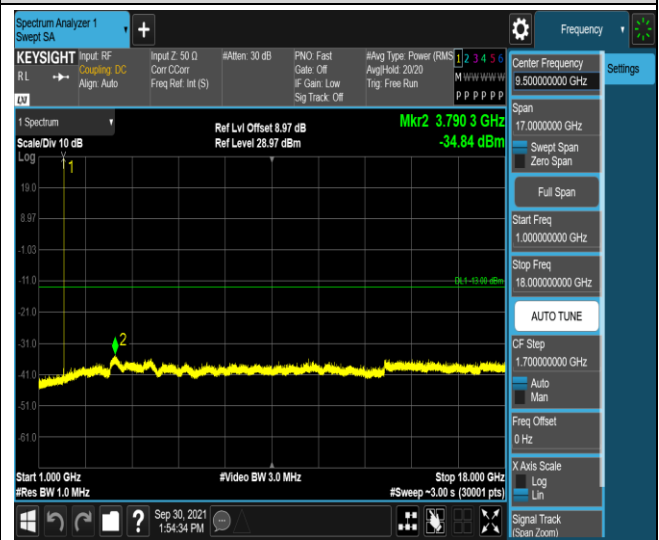
GSM850-251-3-30~1000MHz

GSM850-251-3-1000~10000MHz



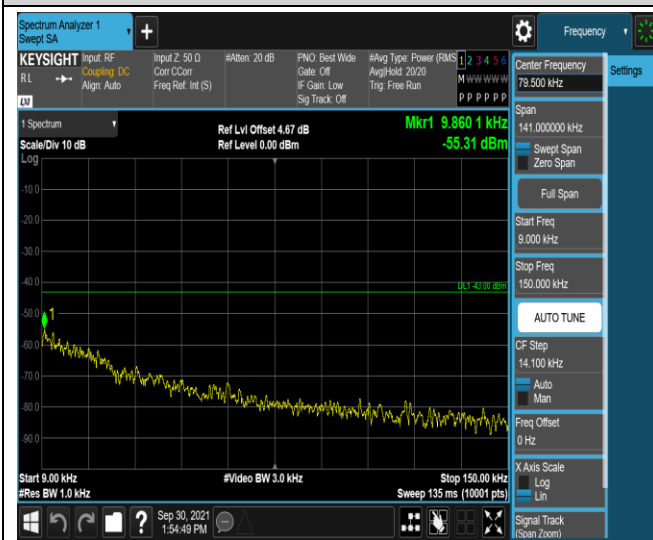
GSM1900-512-0-0.009~0.15MHz

GSM1900-512-0-0.15~30MHz



GSM1900-512-0-30~1000MHz

GSM1900-512-0-1000~18000MHz



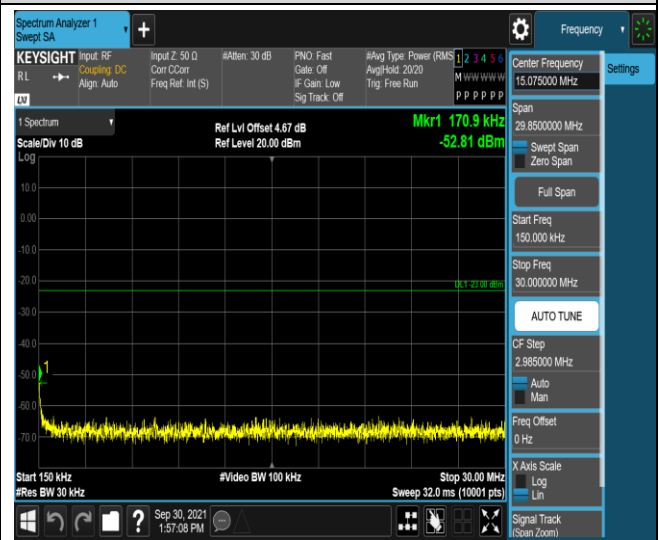
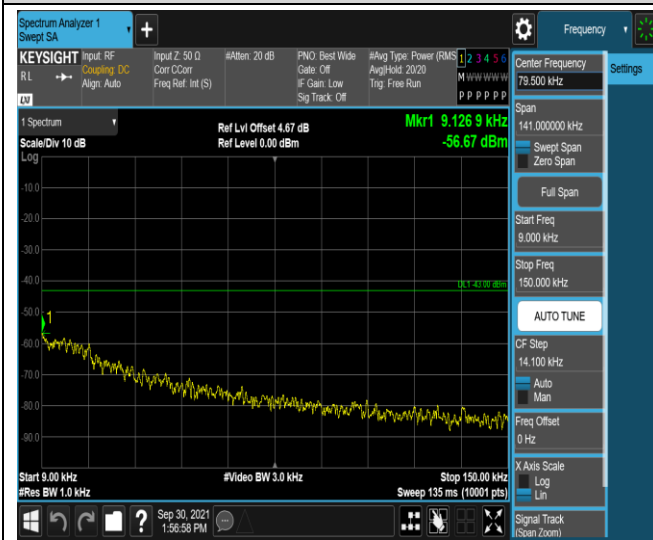
GSM1900-661-0-0.009~0.15MHz

GSM1900-661-0-0.15~30MHz



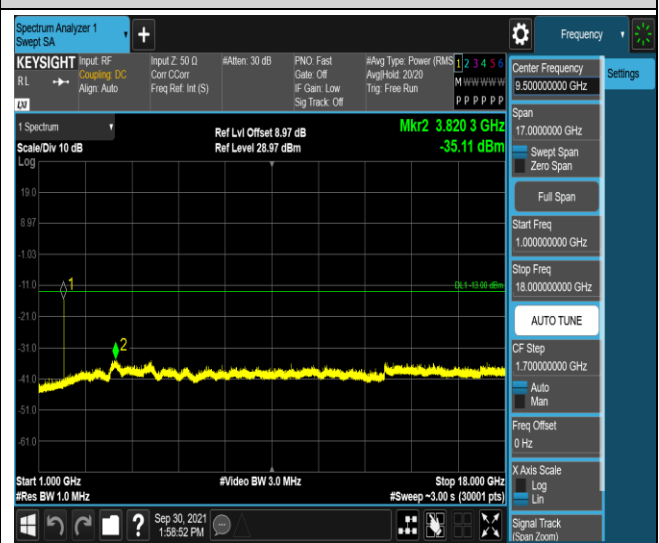
GSM1900-661-0-30~1000MHz

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		
3.85	-30	-1.65	-0.001972	±2.5	Pass
	-20	1.84	0.002199		
	-10	-1.90	-0.002271		
	0	-0.39	-0.000466		
	10	2.58	0.003084		
	20	-1.52	-0.001817		
	30	2.03	0.002426		
	40	2.26	0.002701		
	50	-0.10	-0.000120		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.65	0.001972	±2.5	Pass
	3.85	-0.13	-0.000155		
	4.40	2.29	0.002737		
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	5.65	0.003005	Within authorized band for PCS 1900	Pass
	-20	6.68	0.003553		
	-10	-1.87	-0.000995		
	0	7.20	0.003830		
	10	-2.65	-0.001410		
	20	8.07	0.004293		
	30	7.94	0.004223		
	40	-2.03	-0.001080		
	50	6.30	0.003351		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	5.52	0.002936	Within authorized band for PCS 1900	Pass
	3.85	4.62	0.002457		
	4.40	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
GSM1900	661	PASS	PASS

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

Test Graphs

