

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GSM850	128	-1.72	-0.73	56.99	PASS
GSM850	190	-1.78	-0.79	56.99	PASS
GSM850	251	-1.89	-0.9	56.99	PASS
GSM1900	512	1.14	2.34	62.14	PASS
GSM1900	661	1.12	2.32	62.14	PASS
GSM1900	810	1.37	2.57	62.14	PASS

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

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

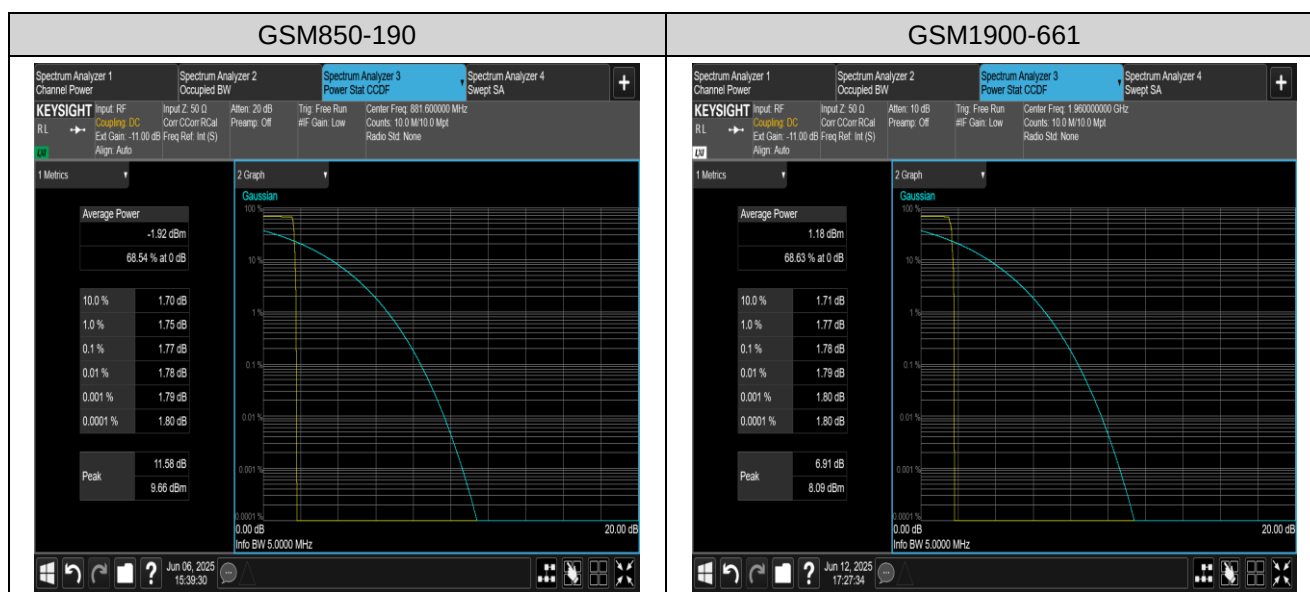
Appendix B: Peak-to-Average Ratio(CCDFF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	190	1.77	13	PASS
GSM1900	661	1.78	13	PASS

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

Test Graphs

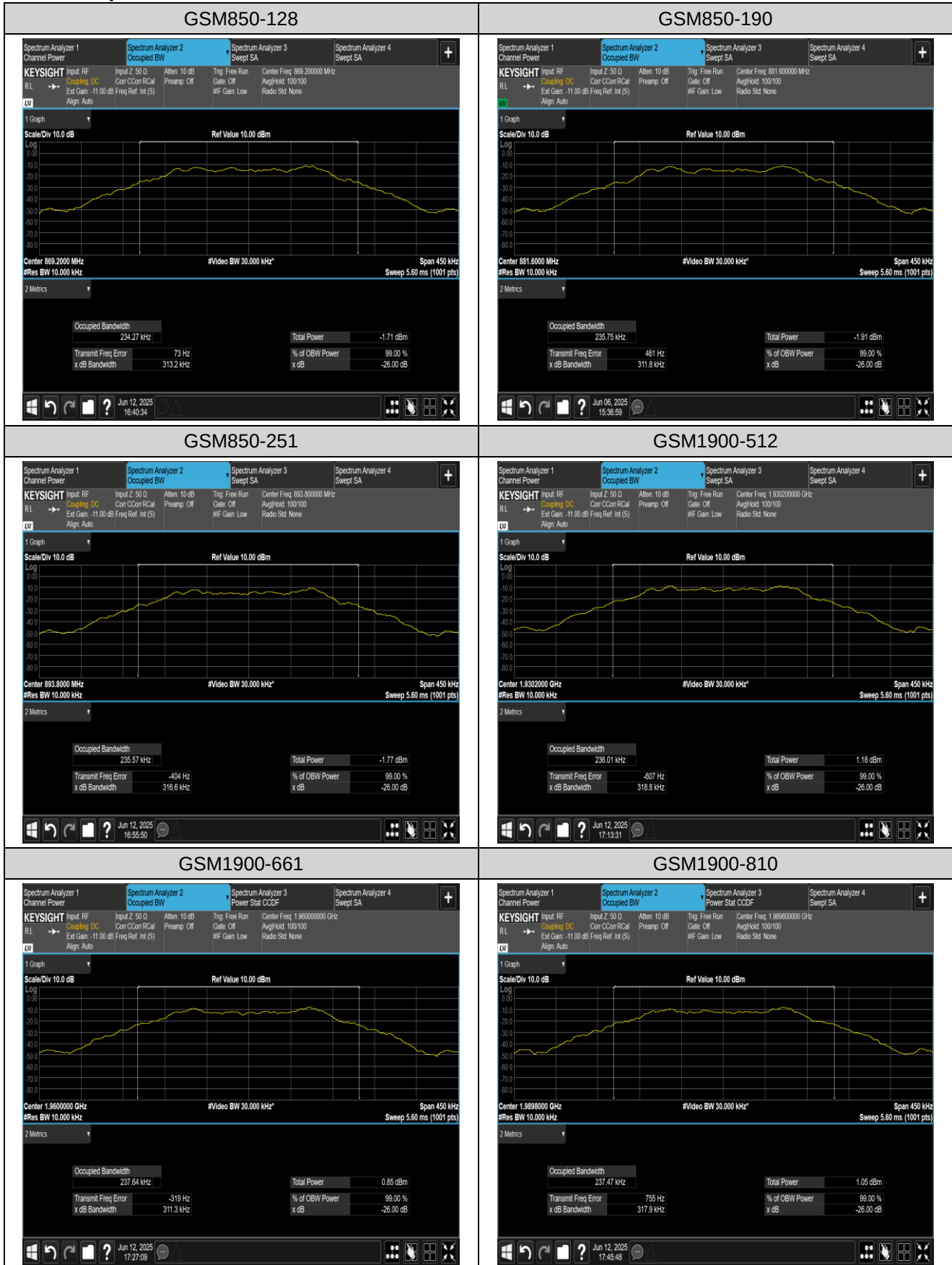


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.23427	0.3132	---	PASS
GSM850	190	0.23575	0.3118	---	PASS
GSM850	251	0.23557	0.3166	---	PASS
GSM1900	512	0.23601	0.3188	---	PASS
GSM1900	661	0.23764	0.3113	---	PASS
GSM1900	810	0.23747	0.3179	---	PASS

Test Graphs

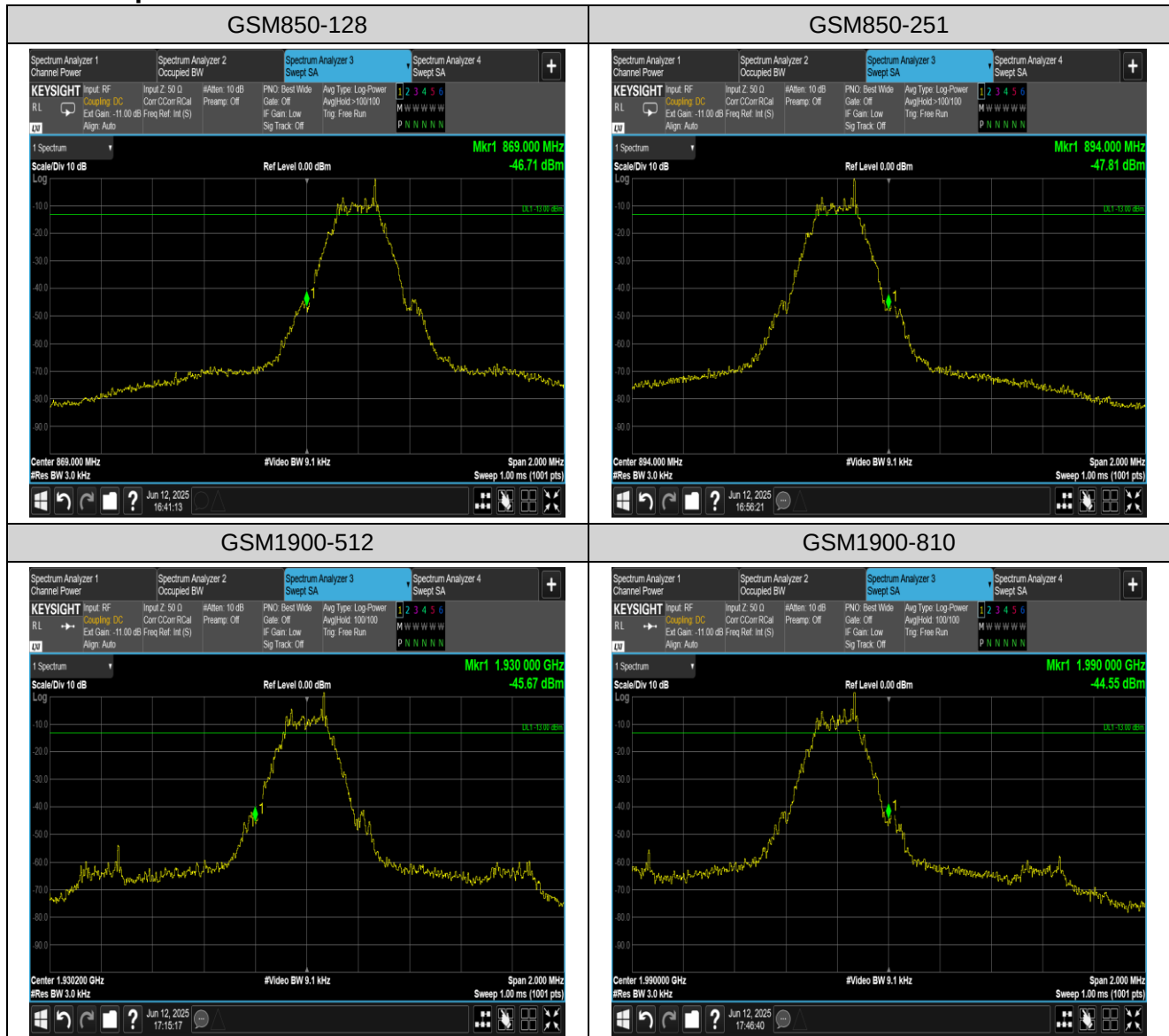


Appendix D: Band Edge

Test Result

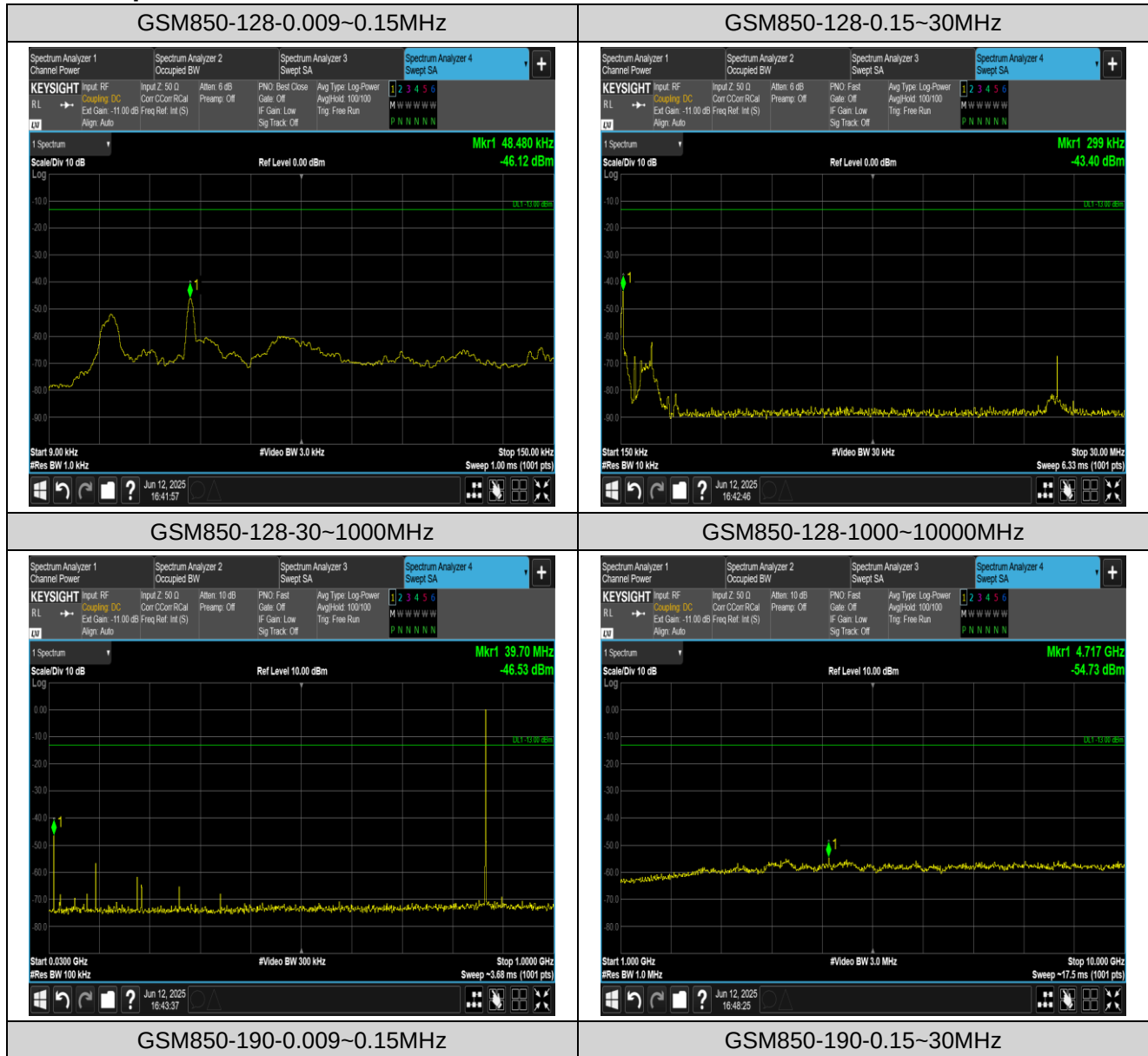
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	869.000	-46.71	-13	PASS
GSM850	251	894.000	-47.81	-13	PASS
GSM1900	512	1930.000	-45.67	-13	PASS
GSM1900	810	1900.000	-44.55	-13	PASS

Test Graphs



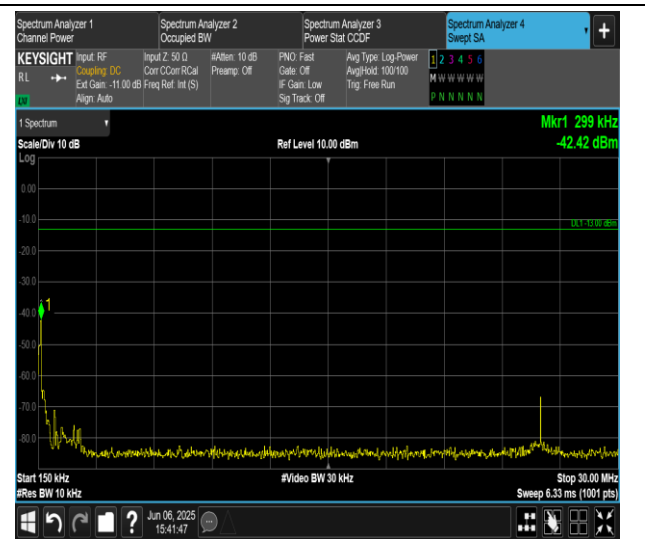
Appendix E: Conducted Spurious Emission

Test Graphs

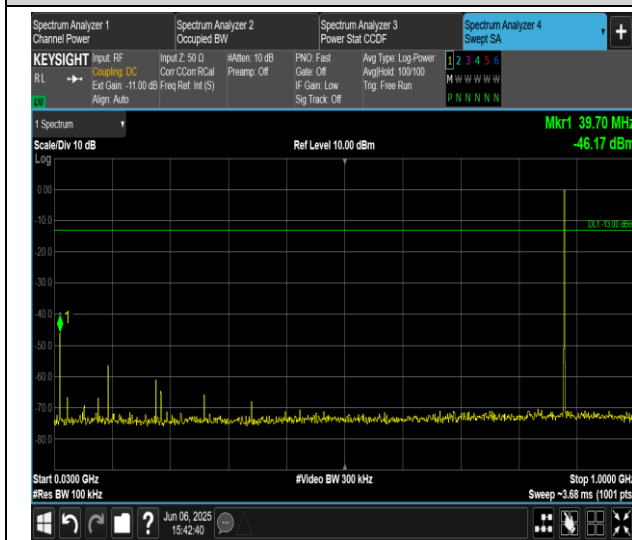




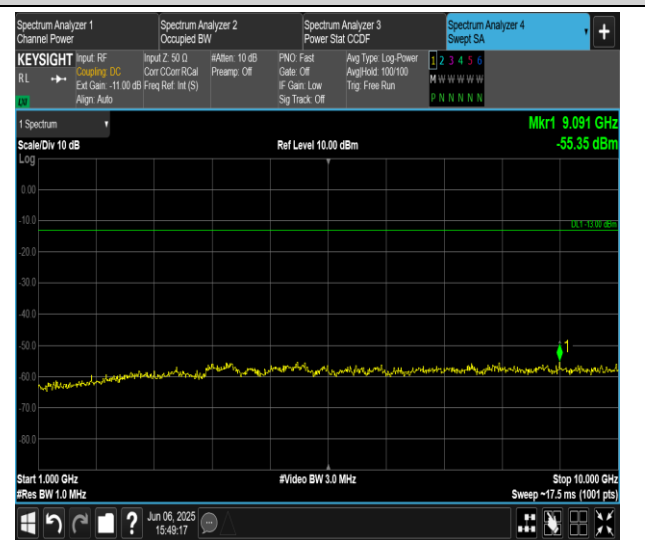
GSM850-190-30~1000MHz



GSM850-190-1000~10000MHz



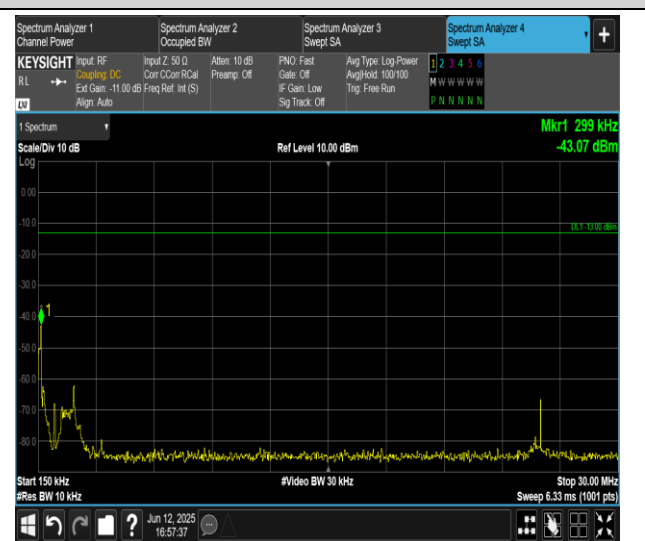
GSM850-251-0.009~0.15MHz



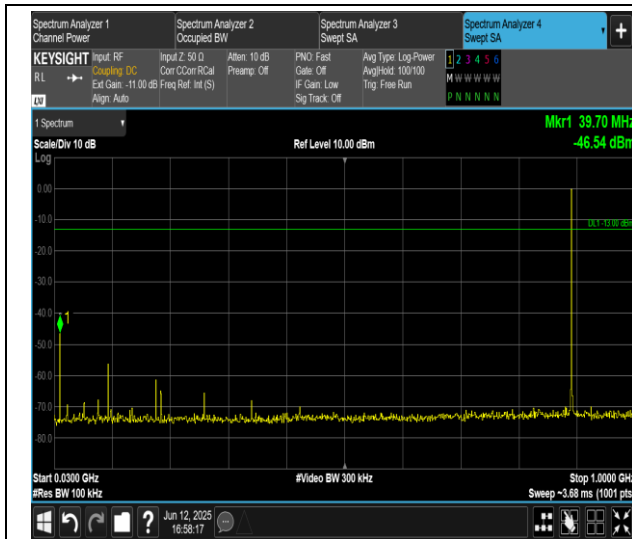
GSM850-251-0.15~30MHz



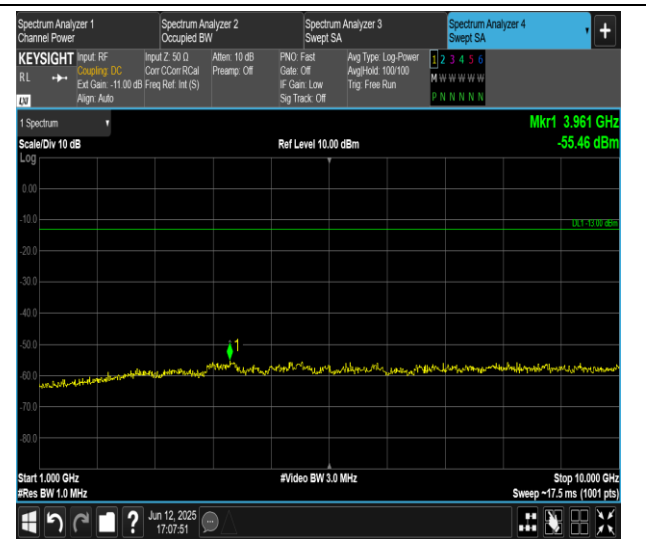
GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz



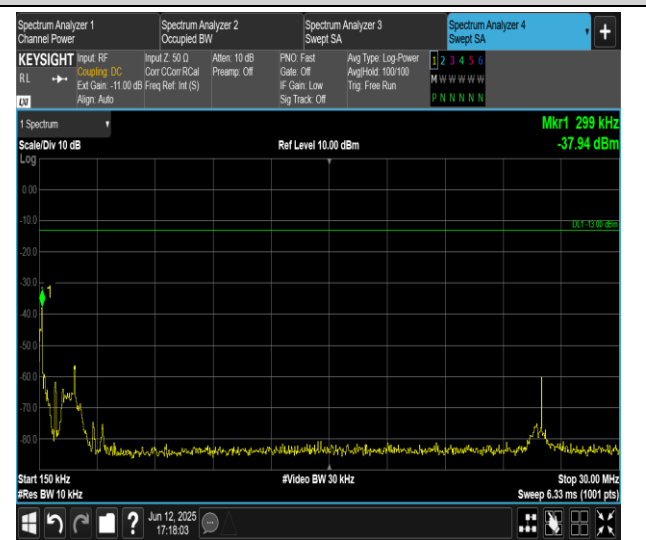
GSM1900-512-0.009~0.15MHz



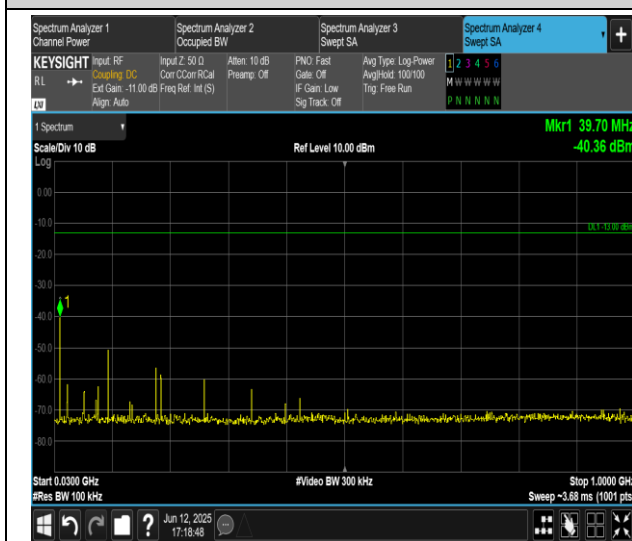
GSM1900-512-0.15~30MHz



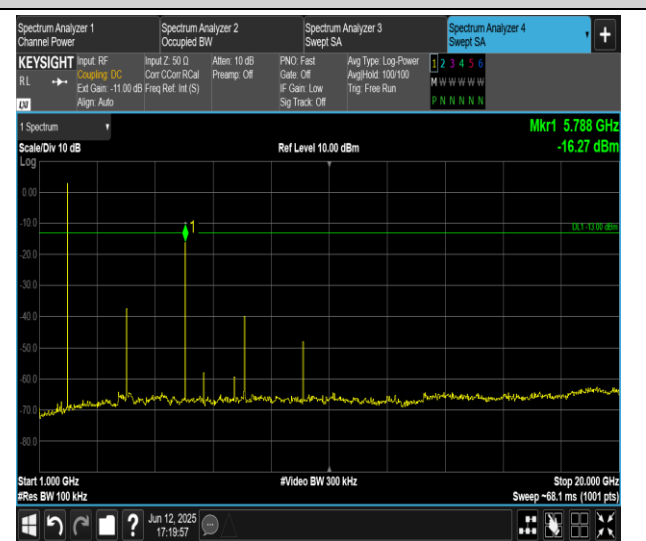
GSM1900-512-30~1000MHz



GSM1900-512-1000~18000MHz



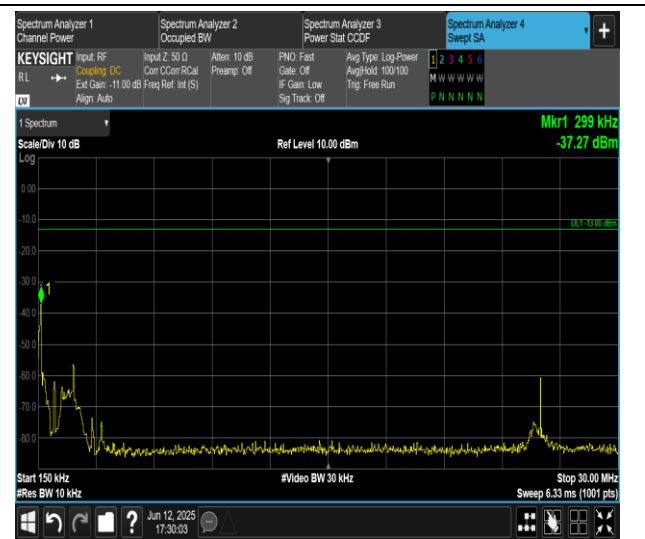
GSM1900-661-0.009~0.15MHz



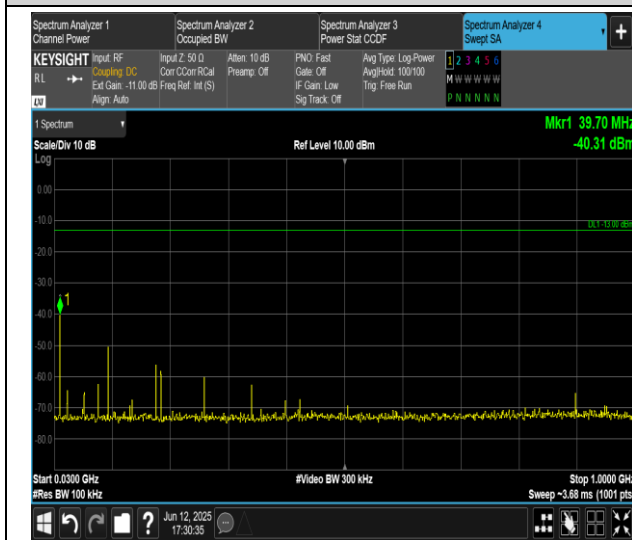
GSM1900-661-0.15~30MHz



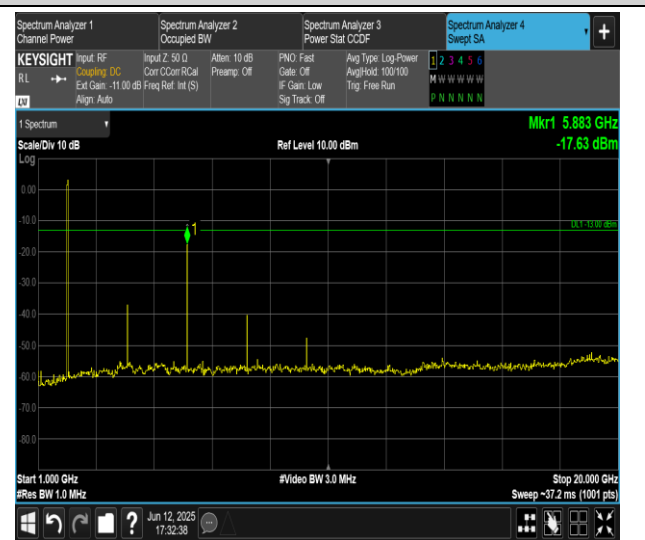
GSM1900-661-30~1000MHz



GSM1900-661-1000~18000MHz



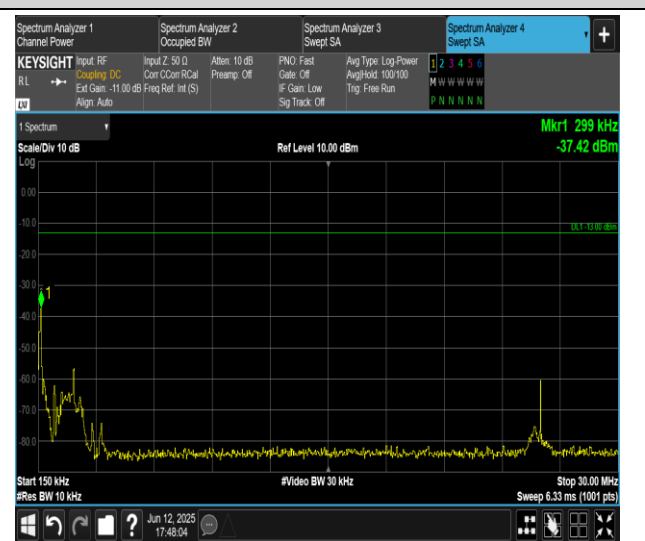
GSM1900-810-0.009~0.15MHz



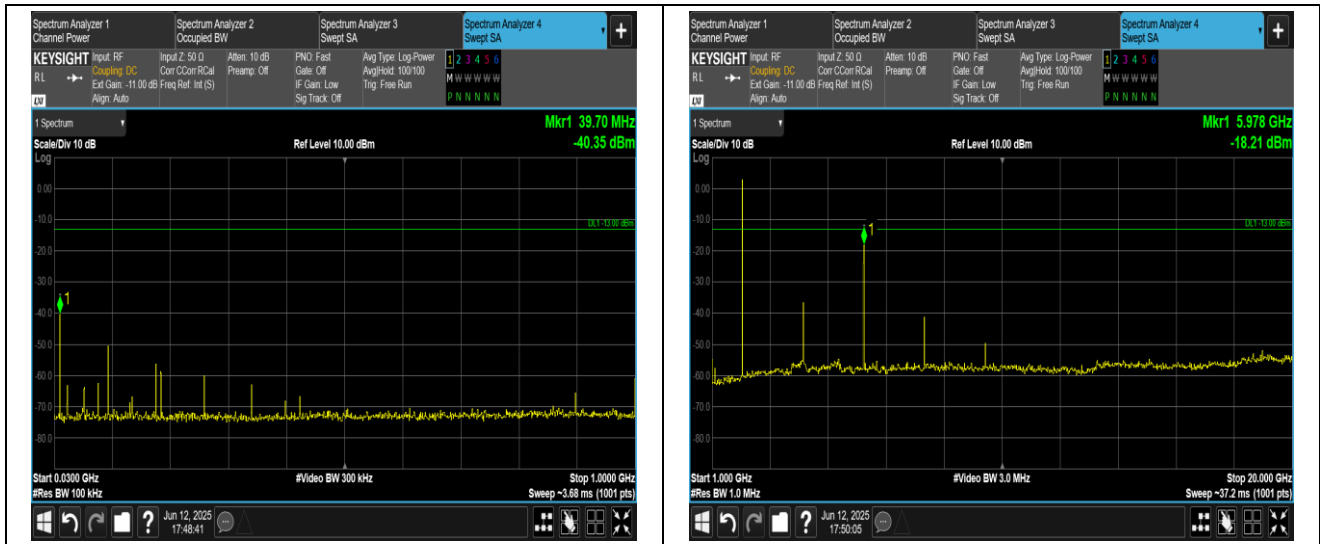
GSM1900-810-0.15~30MHz



GSM1900-810-30~1000MHz



GSM1900-810-1000~18000MHz



Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=881.6MHz					
Temperature					
Power supplied (Vac)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
120	-30	50.26	0.057010	±2.5	Pass
	-20	53.47	0.060651		
	-10	41.5	0.047074		
	0	48.82	0.055377		
	10	55.25	0.062670		
	20	46.42	0.052654		
	30	58.82	0.066720		
	40	46.63	0.052892		
	50	54.75	0.062103		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	90.0	46.5	0.052745	±2.5	Pass
	120.0	54.91	0.062284		
	230.0	41.36	0.046915		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: PCS1900 Middle channel=661 Frequency=1960MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
120.0	-30	44.14	0.022520	±2.5	Pass
	-20	46.61	0.023781		
	-10	51.97	0.026515		
	0	48.29	0.024638		
	10	43.87	0.022383		
	20	52.82	0.026949		
	30	51.98	0.026520		
	40	47.08	0.024020		
	50	53.35	0.027219		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	90.0	44.73	0.022821	±2.5	Pass
	120.0	45.23	0.023077		
	230.0	45.34	0.023133		
Remark: All channel had been tested, but only the worst case data displayed in this report.					