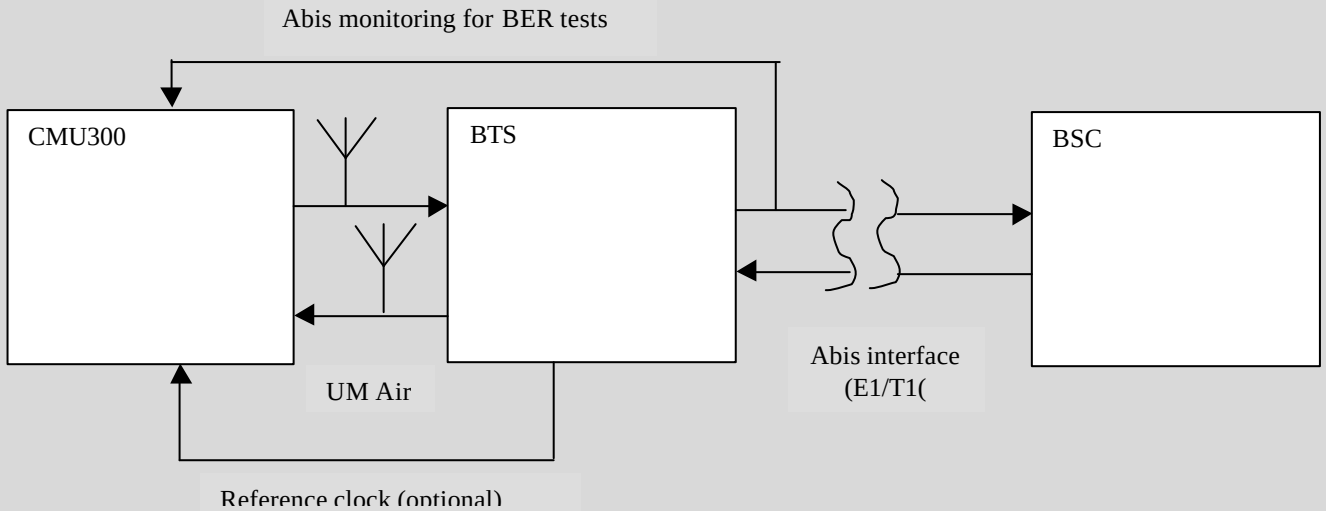
RF test of GSM / EDGE BTS's, operated in the real network (controlled via line interface (E1/T1; Abis by BSC) (application: maintenance)	
Test Set-up	
Characteristics of test environment	• "Multi-carrier" RF conditions; i.e. several physical RF carriers might be active and applied to In- / Out-puts of BTS and tester • for establishment of traffic channel (to be measured) the tester must support signalling procedures; i.e. tester must simulate a MS • BER tests normally only possible via Abis monitoring; i.e. implementation of "T" connector into Abis up-link required
Suggested configuration	CMU300; CMU-B12 (optional); CMU-B21; CMU-K31...34; CMU-K39; CMU-B71

Supported measurements	• Synchronised to TDMA timing of BTS (CMU = Signalling Mode incl. Location update procedure and call procedure MOC based on option CMU-K39):
	• TX-Tests
	  • Mean transmitted RF carrier power
	  • Transmitted RF carrier power versus time
	  • Modulation accuracy
	  • Spectrum due to Modulation
	  • Switching Transients Spectrum
	RX-Tests: BER measurements on TCH's via Abis monitoring

Remarks	• All tests related to GSM channels TCH/FS, TCH/EFS, TCH/HS • SIM card reader not supported; IMSI / IMEI can be selected manually; instrument can not be used, if network requires ciphering (reason: missing ciphering key which is stored on the – in this case missing - SIM card) • Multicarrier Environment: Tests can be performed, if the interferer (same level) has a spacing of more than 10 GSM channels