

► **Figure 18.** CN Simulation and Iub Monitoring

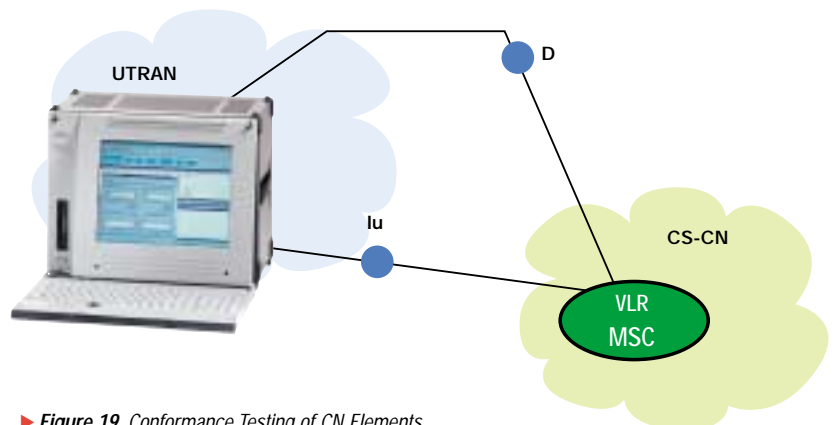
2. Active and passive monitoring are primary measurement tools. Monitoring for all UMTS interfaces will be supported. The manufacturer but and the operator can evaluate network element performance. Statistical data can be retrieved that give the operator additional information about the load and type of traffic, such as BHCA's. A CN-simulation and Iub-interface monitoring application are shown in figure 18.
3. Conformance testing will be offered to verify an item's conformant behavior. As standards are agreed upon, conformance test suites will be made available in software upgrades for the K1297. The conformance testing of CN elements can be seen In Figure TS3 - the K1297 simulates the HLR to guarantee that the network elements under test only get approved data.

Tektronix is committed to the most advanced test solutions for mobile networks. As mobile networks continue to evolve through GPRS, UMTS and cdma2000, we will keep you in the forefront with the latest testing products and methods.

We welcome your comments and suggestions for improving these documents and your ideas for developing other tools to help you meet the measurement challenges of new wireless systems.

5 Conclusion:

This second release of the UMTS Primer presents information for the test engineer who is interested in solutions for the new world of 3G mobile networks. Updates will follow in the near future, as the standards continue to evolve. This document is also available at our web site (www.tektronix.com/commtest), along with updates and related documents (including a series of Application Notes on the testing of UMTS interfaces).



► **Figure 19.** Conformance Testing of CN Elements