

ABSTRACT

Drive test is a process measurement system on the mobile communication radio waves in the air, from the direction of the transmitter / BTS to MS / Mobile, or vice versa, by using a mobile phone designed specifically for the measurement. In the drive test measurement used several tools such as laptops, mobile phones, GPS, and software test drive itself. For now, the drive test software is still very small and expensive licensed, making it difficult to obtain.

This final project using Visual Basic programming language and have the same function as a network drive test software WCDMA/3G else but licensed free or free of charge so that it can be distributed widely, but the software is not as complete as TEMS / NEMO.

This software process parameters in accordance with the KPI (Key Performance Indicator) test drive and the general nature such as RSCP, E_c / N_o . The results of software testing with scope of IT Telkom campus for the RSCP active site with threshold less than -85 dBm is 62.95% and for E_c/N_o with threshold less than -10 dB is 52.27%, and degree of accuracy comparing with TEMS is 93% - 95%

Key words: *IT, Visual Basic, Software, test drive, WCDMA, 3G*