

ABSTRACT

High speed data access over wireless may provided by High Speed Downlink Packet Access technology (HSDPA), HSDPA technology is completion of Wideband Code Division Multiple Access (WCDMA) that supported by third generation standard. Adding channel on HSDPA that is called High Speed Downlink Shared Channel (HS-DSCH, this channel can be used share with the other user, the short transmission time interval (TTI) 2ms, so can reduce delay and large capacity to make high high data rate until 14.4 Mbps.

In this examination, will be analyze about choosing modulation that will be used, and observed the impact of input parameters (example : modulation scheme, SNR, Radio channel condition, data length) to output parameters (example : user throughput).In this simulation the lowest SNR quality is -2,2 dB and the highest one is 28,7 dB.

In this explanation will be simulate to data service with one user have data accessed length, that is 10 Mbit. To simulating this explanation, is used Mathlab R2008a software.