ABSTRACT

There is so many transmissions which has been used to solve the problems

and to fullfil the radio canal propagation. One of them is using D-MIMO

(Distributed Multi-Input Multi-Output) system. These system exploits the

properties from the canal radio propagation in an environment, full with

multipaths with distributed transmitter. D-MIMO system using an array antena in

sender and receiver. These multipaths cause several troubles in transmission

which is called by ISI (*intersymbol interference*).

In these Final task, there is some measurements and exploration excess

delay in canal radio propagation at Microwave laboratorium with LOS condition

using D-MIMO system.

From the exploration, it results the maximum symbol-rate point

approximately 9,0745 Msps. On the other hand, if the average of delay maximum,

in D-MIMO system produces maximum excess delay with low degree than in

SISO system. D-MIMO system produces 5-40 ns and SISO system produces 5-

140 ns to each transmitter. From this condition, every receiver could be touched

by the sender that produces low delay maximum to that transmitter.

Key words: D-MIMO, excess delay, Measurement

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