

621.396.2

### LTE WiMAX

2,5, 3,5 5

MathCad.

2,4 3,5 5

2 2

WiMAX LTE.

LTE WiMAX.

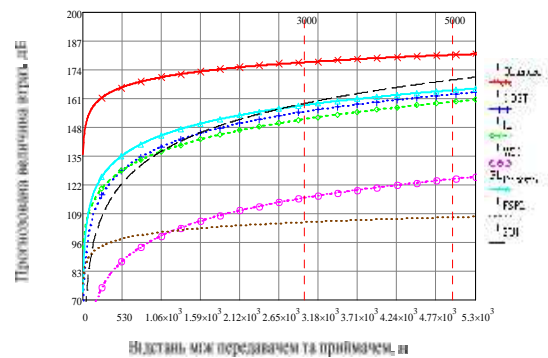
MathCad 14

( , , )

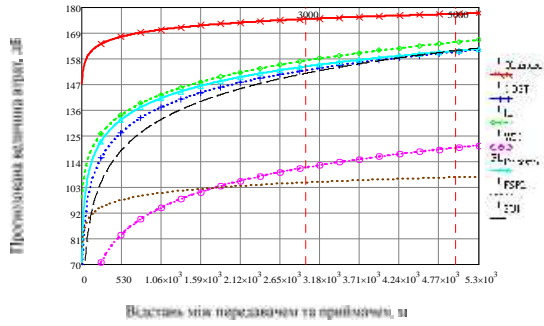
(FSPL – Free Space Path Loss),  
 Cost-231, SUI (Stanford University Interim), -33 (Cost-231, Ericsson, . 1.1 – 1.3

( 2 )

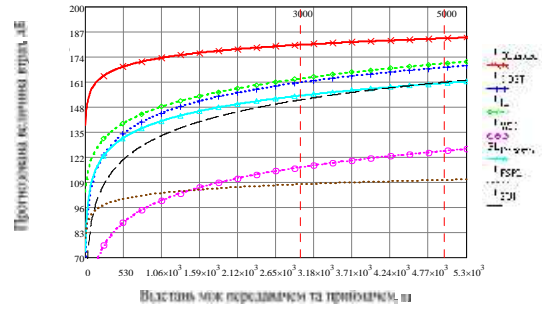
700 ( LTE) 5-5,8 ( WiMAX Wi-Fi IEEE 802.11ac 60 , WiMAX



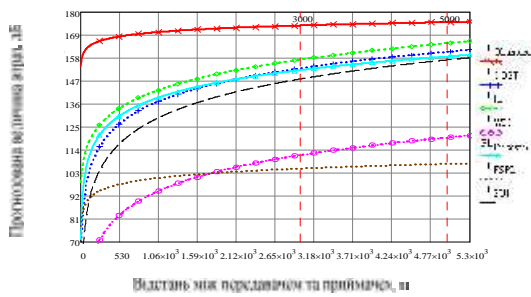
( )



(a)



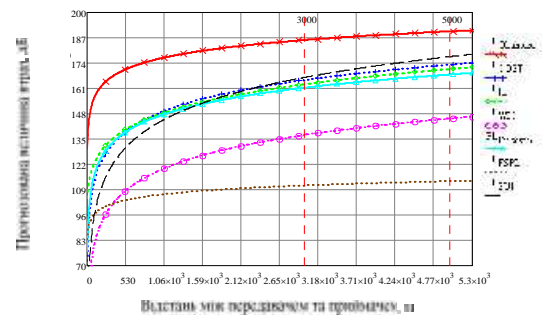
(b)



(c)

.1.2.

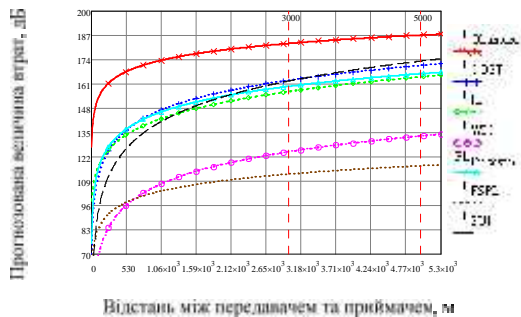
$$3,5 \quad ( - \quad ; \quad - \quad )$$



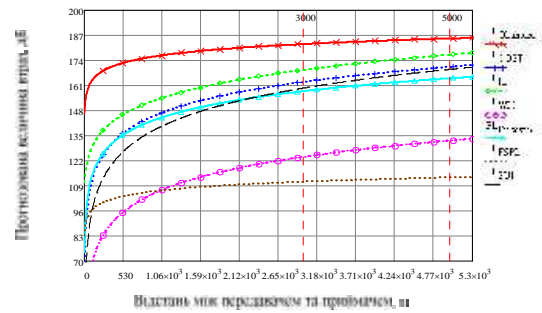
(d)

.1.1.

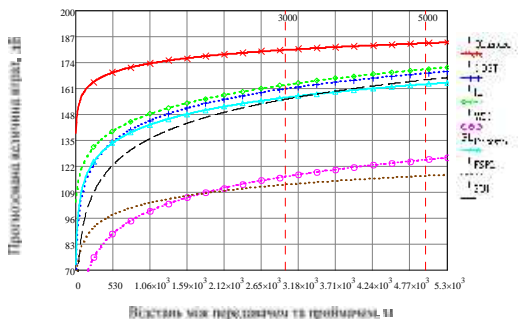
$$2,4 \quad ( - \quad ; \quad - \quad )$$



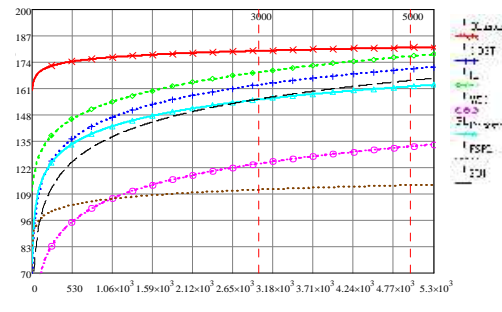
(e)



(f)



(g)



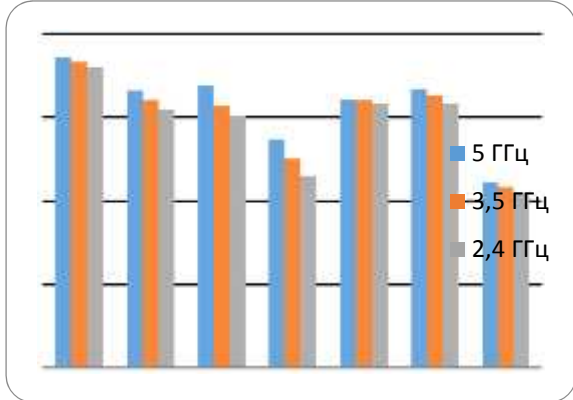
(h)

.1.3.

$$5 \quad ( - \quad ; \quad - \quad )$$

SUI

1.4  
2,4 , 3,5 , 5



1.4.  
2,4 , 3,5 , 5

1.

180 ,  
COST 231 - ( 135 ) (  
FSPL );  
2. Ericsson

3.

20

Cost 231, Ericsson,

2-3

1. / . . . . . , 1997. – 240 .  
1. . . . . LTE  
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10.10..2013

LTE WIMAX.

**ANALYSIS OF THE POSSIBILITIES OF RADIO PROPAGATION MODELS FOR NETWORKS  
OF LTE AND WIMAX**

L.V. Dakova

*In the article analysis of empirical propagation prediction models reach areas in a city. Found compatible appropriateness of models Okumura-Hata and Walvis Ikegami calculation to calculate the loss in signal propagation in free space. The simulation values zatuhan radio propagation on the road.*

**Keywords:** *attenuation, radio waves, modeling, radio signal.*