

(AQI)

knadafi@tums.ac.ir :

// : // :

(PM PM<sub>1</sub> PM<sub>2.5</sub>) :

( ) ( / / / )  
( ) ( ) ( )  
( ) ( ) ( )

(Environmental Dust Monitor) GRIMM 107

(ANOVA)

( $p < /$ )

/  $\mu\text{g}/\text{m}^3$  /  $\mu\text{g}/\text{m}^3$  /  $\mu\text{g}/\text{m}^3$  PM PM<sub>1</sub> PM<sub>2.5</sub>  
(NAAQS) ( ) ( ) ( ) ( )  
EPA ( ) (PM<sub>1</sub> ) (PM<sub>2.5</sub> ) USEPA  
%

(AQI)

(AQI) PM<sub>1</sub> PM<sub>1</sub> PM<sub>2.5</sub> (PM)

(PM)

) PM PM / PM

) ( /  
(PM /

PM

( )

(Sharma and Maloo 2005)

PM (ultrafine)

Krzyzanowski 2008; )

(Krzyzanowski 2008; WHO 2006)

(WHO 2006

( )

World Health Organization Project )

(2004

(PM)

PM

(de Kok et al. 2006)

Borrego et al. )

(2006



(Kermani 2003)

U.S. EPA Mohammadi Moghaddam 2007)  
(1998

PM / PM

Environmental Dust Monitor

Envirocheck 107

PM PM / PM

// )

EPA

( / /

(Excel SPSS)

Microsoft Excel

(Mohammadi Moghadam 2006)

SPSS

One-way ANOVA

( )

( )

(Light-scattering)

( )

)

(

/

/

EPA

( )

PTFE

(Kermani 2003)

PM (EPA 1997b)  $\mu\text{g}/\text{m}^3$

EPA PM<sub>10</sub>  $\mu\text{g}/\text{m}^3$

(EPA 1997a) PM<sub>10</sub>

EPA (PSI)

(EPA 2006)  $\mu\text{g}/\text{m}^3$  (U.S. EPA) (AQI) (PM<sub>10</sub>)

PM<sub>10</sub> EPA (AQI)

AQI

( )

(PM<sub>10</sub> PM<sub>2.5</sub> PM<sub>1</sub>)

( $p < /$  )

( ) PM

( EPA

( )

PM EPA

(EPA 2007)

EPA (PM<sub>10</sub> ) PM<sub>10</sub> PM

(USEPA ) / /

Chaloulakou et al. 2003; Houthuijs et al. )  
(2001

(EPA 2006)

(PM)

( )

(AQI)

(PM)

(Harrison and Yin 2000)

PM /

(AQI)

(PM / )

(ANOVA)

( $p < /$  )

USEPA (NAAQS)

( )

) (PM )

(PM /

EPA ( )

PM /

( )

Houthuijs et al. 2001; )

(TSP)

(Manalis et al. 2005

(PM )

)

( TSP

(AQI)

/

( : ) ( )

$\pm$	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	
/ $\pm$ /	/	/	/	PM
/ $\pm$ /	/	/	/	PM <sub>10</sub>
/ $\pm$ /	/	/	/	PM
/ $\pm$ /	/	/	/	PM
/ $\pm$ /	/	/	/	PM <sub>10</sub>
/ $\pm$ /	/	/	/	PM

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**PM<sub>10</sub> PM<sub>2.5</sub> (AQI)**

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(AQI)

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/			/	( )
/	/		/	( )
/			/	( )
/	/			( )
				( )
				( )

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**PM<sub>10</sub> PM<sub>2.5</sub> (AQI)**

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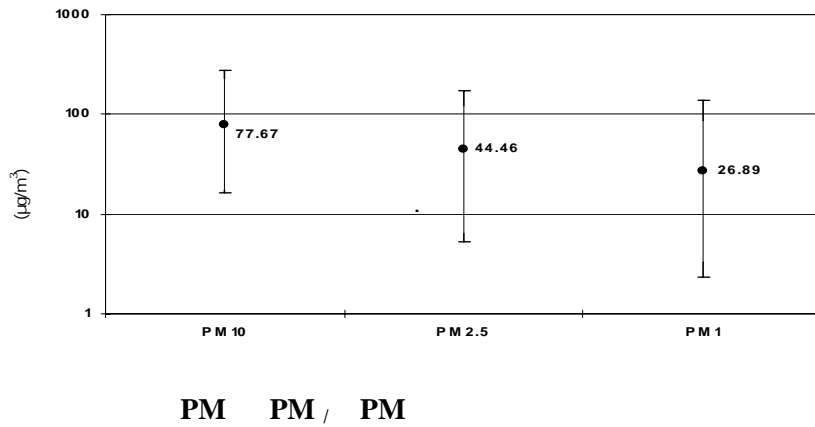
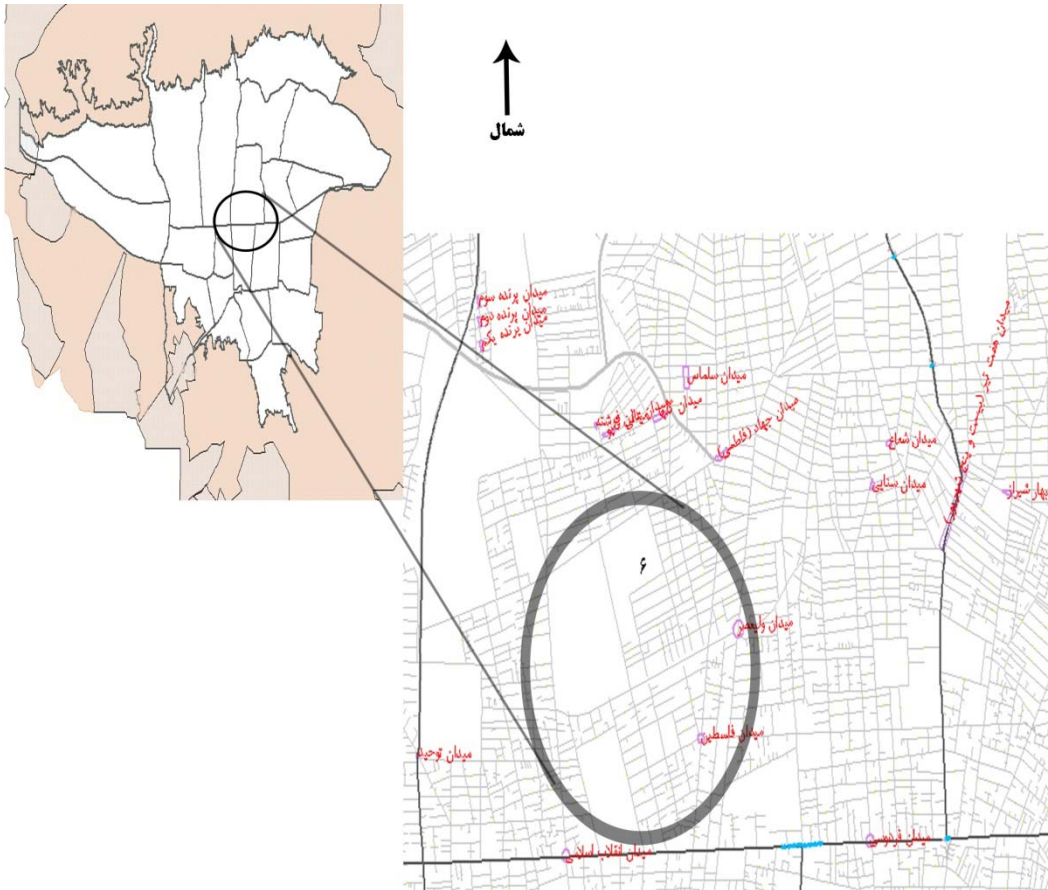
(AQI)

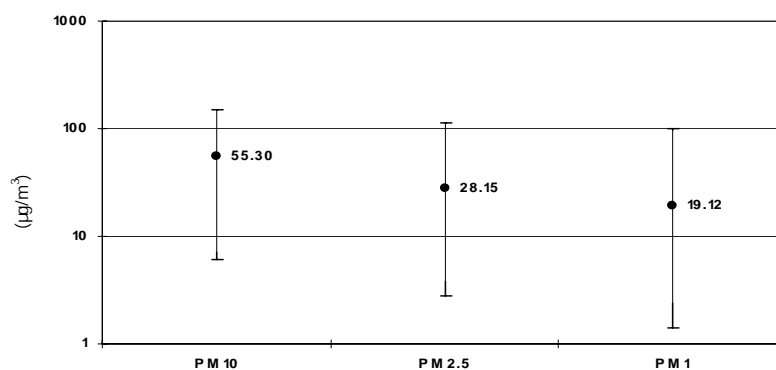
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PM PM<sub>1</sub> PM

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