

## 武汉市空气中 $^{232}\text{Th}$ 浓度测定

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**摘要** <正> 一、前言 根据文献[1]的报导,空气中 $^{232}\text{Th}$ 浓度主要依赖于土壤中放射性核素的浓度和土壤的再悬浮因子两个因素。联合国原子辐射效应科学委员会推荐的地面空气中 $^{232}\text{Th}$ 浓度的估算值就基于这一假设。根据这一假设估算空气中 $^{232}\text{Th}$ 含量的文章目前尚不多见,我们根

**关键词**  [\$^{232}\text{Th}\$](#)  [空气监测](#) [含尘量](#)

分类号

## MEASUREMENT OF CONCENTRATION OF $^{232}\text{Th}$ IN AIR IN WUHAN AREA

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**Abstract** the measurements of concentration of  $^{232}\text{Th}$  in air in wuhan area show that the daily average value is found to be  $29.13 \times 10^{-9} \text{Bq/l}$  in the period from 1981 to 1985 based on the measurements of 7346 samples. The highest daily average value is  $36.23 \times 10^{-9} \text{Bq/l}$  in the year 1983. The seasonal changes of the concentration of  $^{232}\text{Th}$  in air is very obvious for the year 1984 and 1985, being highest in winter with a value of  $41.93 \times 10^{-9} \text{Bq/l}$  in 1984 and  $32.85 \times 10^{-9} \text{Bq/l}$  in 1985, and lowest in summer with values of  $25.40 \times 10^{-9} \text{Bq/l}$  and  $14.33 \times 10^{-9} \text{Bq/l}$  respectively. This obvious change with season is related to the weather condition. The concentration of  $^{232}\text{Th}$  in air is highest in Qingshan region for six cities in wuhan area with a value of  $49.34 \times 10^{-9} \text{Bq/l}$  and lowest in wuchan region with a value of  $18.35 \times 10^{-9} \text{Bq/l}$ . This is due to the difference in the amount of dust in the air in these regions.

**Key words**  [\$^{232}\text{Th}\$](#)  [Monitoring of air](#) [Amount of dust](#)

DOI

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