Simplified Analytical Technology for Dioxins in Fly Ash Using Flame Ionization Detector Gas Chromatography†

[illegible]

Abstract:

"High Clean DX" a dioxins removal technology for fly ash discharged from municipal solid waste (MSW) incinerators was developed. In the course of developing "High Clean DX," a rapid analytical technology for the dioxins concentration in fly ash was important. A simplified analytical technology for dioxins in fly ash using flame ionization detector gas chromatography has been developed by focusing on the simple volatilization behavior of organic compounds," This technology makes it possible to estimate the dioxins concentration of fly ash rapidly.

1. Introduction

[illegible]

2. Outline of "High Clean DX"

2.1 Process flow

[illegible] **Fig. 1** [illegible] **Fig. 2** [illegible]

[illegible] *JFE GIHO* [illegible]

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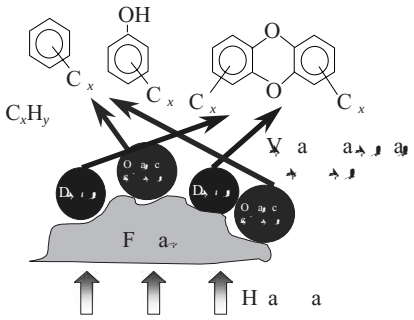


Fig. 1 Principle of High Clean DX

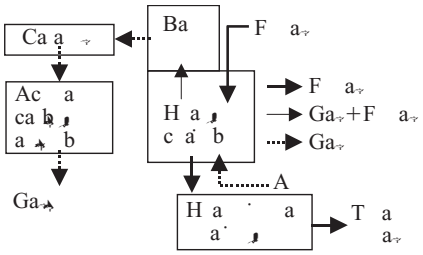
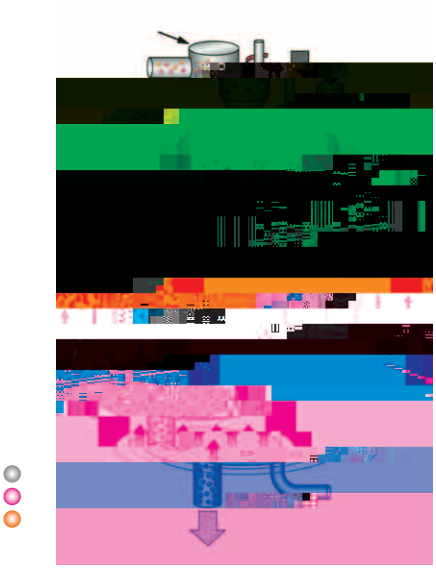


Fig. 2 Flow chart of High Clean DX

2.2 Structure of Agitating Fluidized Bed Heating Chamber

Fig. 3



3. Volatilization of Organic Compounds from Fly Ash

3.1 Experimental Method

Fig. 4

[illegible]

Fig. 7

4. Conclusions