

Steps**MS method****Data acquired**

1	MD vs. m/z diagram comparison between aerosol and aerosol+KI+H ₂ O ₂ /O ₃	Low-energy MS scan	m/z and RT of potential organic iodine ions
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2	Elemental composition calculation: ChemSpider search	MSMS confirmation	80 possible CHONSI chemical formulas
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3	Targeted screening in real aerosol samples based on m/z and RT	Low-energy MS scan	35 formulas (47 organic iodine compounds) and their peak areas observed in aerosol samples
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4	4 compounds quantified with their standards; 43 compounds semi-quantified with surrogate standards	Low-energy MS scan of commercial standards	Concentrations of individual non-aromatic compounds and total aromatic iodine compounds
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