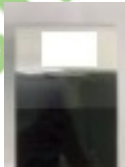




## Taoyuan Association of Travel Agents – Analysis of nitrogen oxide produced by ozone generator

Test name : Analysis of nitrogen oxide concentration in gas produced by ozone generator

Entrusted unit : GREENFILTEC Co., LTD, Business department 2

### I、 Sample information :

Item	Sample name	Figure	Note
Inorganic sample NO <sub>x</sub>	xxxxxx 10sec Commercial type  (OH-6800C)		
	xxxx Ozone machine Commercial type  (OZ-7000K)		
	BES Ozone machine Commercial type  (EOS7170)		Turn on to stage 4, than sampling.

Note 1 : The blank is that the gas, reagent water, solvent, absorbent liquid, diluted water, adsorption medium, filter media or similar matrix without the analyte are placed in the test chamber in the same sampling container as the sample to be tested, and the gas supply pump is sampled.

Note 2 : From the analysis results of the blank sample, it can be determined whether the sample has been contaminated or disturbed by the gas supply end; the sample data in this report is presented in a manner that deducts the blank.

## II、Test results

### 1. Inorganic test results

Unit : ppbv

Item	F <sup>-</sup>	AcOH	HCOOH	Cl <sup>-</sup>	NO <sub>2</sub> <sup>-</sup>	Br	NO <sub>3</sub> <sup>-</sup>	PO <sub>4</sub> <sup>3-</sup>	SO <sub>4</sub> <sup>2-</sup>	NH <sub>4</sub> <sup>+</sup>
Xxxxxxx 10sec Commercial type (OH-6800C)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	9699.70	N.D.	N.D.	N.D.
Xxxx Ozone machine Commercial type (OZ-7000K)	N.D.	219.12	N.D.	93.23	N.D.	N.D.	10037.00	N.D.	N.D.	N.D.
BES Ozone machine Commercial type (EOS7170)	N.D.	3.83	N.D.	1.09	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MDL	0.11	0.01	0.09	0.02	0.04	0.14	0.03	0.26	0.06	0.21

p.s. The data presented in the table has been deducted for blank values.  
MDL : is method detection limit.

### 2. Data intergration

Item	NOx (ppbv)
Xxxxxxo 10sec commercial type (OH-6800C)	9699.70
Xxxx Ozone machine commercial type (OZ-7000K)	10037.00
BES Ozone machine commercial type (EOS7170)	N.D.

## III、 Analysis results

- The BES Ozone machine commercial type (EOS7170) has no NOx output, and the other two have a concentration of nearly 10,000 ppbv.

#### IV、 Test instructions

Test description :

1. Test date : Jan. 14, 2022, executed in Chemical Filter Lab in GREENFILTEC Co., LTD.
2. Test environment : Temp.: 20±1°C/ RH: 50±10%
3. Test description : Samples were delivered to Analytical Lab in GREENFILTEC Co., LTD. on January 14, 2022 for inorganic analysis.
4. Analysis methods and conditions

Inorganic gases:

- (1) Clean the inside of the impingers before sampling.
- (2) Use 30ml DI water as absorbent.
- (3) Connect the impinger with pump for sampling, sampling flow rate 1.5L/min, sampling time for 60 mins , Sampling volume is 90L .
- (4) Use Ion Chromatography (Metrohm) for quantitative analysis of inorganic gas concentration in absorbent.

#### V、 Measuring Instrument Specifications

Instrument Name	Brand/ Model	Measurement range	Minimum test concentration / accuracy	Detection type	Last calibration date
IC	Metrohm 930 compact IC	0.01 ppb-10 ppm	0.01 ppb/ 5%	Off-line	2019.09.30

Executor : Annie Tson

Approver : Wilson Peng

Supervisor : Richard Yu