

ISO 14965:2000-03 (E)

Air quality - Determination of total non-methane organic compounds - Cryogenic preconcentration and direct flame ionization detection method

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Description of the method	2
4.1 Sampling	2
4.2 Analysis	2
5 Interferences	3
6 Apparatus	3
6.1 Sample collection system (Figure 1)	3
6.2 Sample-canister cleaning system (Figure 2)	4
6.3 Analytical system (Figure 3)	6
7 Reagents and materials	9
8 Canister cleanup and preparation	9
9 Sampling	10
9.1 General	10
9.2 Sample collection	11
10 Sample analysis	12
10.1 Assembly	12
10.2 Analytical system leak check	12
10.3 Sample volume determination	12
10.4 Analytical system dynamic calibration	13
10.5 Analysis procedure (see Figure 3)	14
11 Performance criteria and Quality Assurance	16
11.1 General	16
11.2 Standard operating procedure (SOP)	17
11.3 Method sensitivity, accuracy and precision	17
12 Method modification	18
12.1 Sample metering system	18
12.2 Canister cleaning	18
12.3 FID system	18
12.4 Range	18
12.5 Alternative cryogenic trapping and heating systems	18
12.6 Sub-atmospheric pressure canister sampling	18
12.7 Alternative sampling system	18
13 Precision and accuracy	19

13.1	Precision	19
13.2	Accuracy	19
Annex A (informative) Example of pressurized canister Sampling Data Sheet		20
Bibliography		21