

DIN EN ISO 13199:2013-02 (E)

Stationary source emissions - Determination of total volatile organic compounds (TVOCs) in waste gases from non-combustion processes - Non-dispersive infrared analyser equipped with catalytic converter (ISO 13199:2012)

Contents	Page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Symbols and abbreviated terms	8
5 Principle	8
5.1 Method of measurement	8
5.2 Analyser equipment	10
5.3 Performance criteria fulfilment	10
6 Performance criteria and determination of the performance characteristics	10
6.1 Performance criteria	10
6.2 Determination of the performance characteristics and measurement uncertainty	10
7 Measurement procedure	12
7.1 General	12
7.2 Choice of the measuring system	12
7.3 Sampling	12
7.4 Data collection	12
7.5 Calculation	13
8 Quality assurance and quality control procedures	13
8.1 General	13
8.2 Frequency of checks	13
8.3 AMS for intermittent measurements	13
8.4 Permanently installed AMS	15
9 Test report	17
Annex A (informative) Schematic diagrams of NDIR analysers	18
Annex B (normative) Operational gases	21
Annex C (normative) Procedures for determination of the performance characteristics during the general performance test	23
Annex D (informative) Example of assessment of compliance of the NDIR method	27
Annex E (informative) Results of comparison tests	30
Bibliography	34