

ISO 18466:2016-12 (E)

Stationary source emissions - Determination of the biogenic fraction in CO₂ in stack gas using the balance method

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	2
5	Requirements	4
5.1	Input stream parameters	4
5.2	Output stream parameters	4
6	Sampling	5
6.1	Sampling of input streams	5
6.2	Sampling of output streams	5
7	Test methods	5
7.1	General	5
7.2	Process input	5
7.2.1	Amount of fuel that is combusted	5
7.2.2	Amount of combustion air	6
7.2.3	Auxiliary fuel or oxygen enrichment	6
7.3	Process output	6
7.3.1	Stack emissions	6
7.3.2	Energy production	6
7.3.3	Solid outputs	6
8	Balance calculation	6
8.1	General	6
8.2	Mass balance	7
8.3	Ash balance	7
8.4	Carbon balance	7
8.5	Energy balance	7
8.6	O ₂ consumption balance	8
8.7	Difference between O ₂ consumption and CO ₂ production	9
8.8	Water balance	10
8.9	Composition of the organic matter	10
8.10	Operating data of the Waste for Energy (WfE) plant and plausibility checks	11
8.11	Mathematical solution with data reconciliation	12
8.12	Calculation model	13
9	Operating the model	20
9.1	Installation routines	20
9.2	Ongoing operation calculation routines	21
10	Uncertainty budget methodology and interpretation	21

Annex A (informative) Reference chemical compositions of moisture and ash free biogenic and fossil organic matter	22
Annex B (informative) Reference chemical compositions for the auxiliary fuels	23
Bibliography	24