

ISO 12828-1:2011-11 (E)

Validation method for fire gas analysis - Part 1: Limits of detection and quantification

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols	2
5	General considerations	3
5.1	Limit of detection: table of risks	3
5.2	Limit of quantification: effect on repeatability r	3
5.3	Typically accepted values for limits of detection and quantification	4
6	Methods for determining limits of detection and quantification	5
6.1	Principles and summary of methods	5
6.2	Main method 1 - Determination of LD and LQ from matrix data from blank samples	6
6.3	Main method 2 - Determination of LD and LQ from the linearity of calibration data	8
6.4	Main method 3 -- Checking a given or prescribed quantification limit	9
6.5	Other methods	11
7	Presentation of results	11
7.1	Minimum requirements	11
7.2	Reporting results from analyses	12
	Annex A (informative) Examples of applications	14
	Annex B (informative) Examples of importance of limits of detection and of quantification	18
	Bibliography	20