

ISO 12219-1:2021-08 (E)

Interior air of road vehicles - Part 1: Whole vehicle test chamber - Specification and method for the determination of volatile organic compounds in cabin interiors

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Apparatus and materials	3
4.1	General	3
4.2	Heating radiator	3
4.3	Sampling trains	4
4.3.1	Sampling in the test vehicle	4
4.3.2	Sampling in the whole vehicle test chamber	4
4.3.3	Sampling line	4
4.4	Analytical equipment and materials	5
4.5	Test vehicle	5
5	Principle	5
6	Requirements of the whole vehicle test chamber, test vehicle and measurement procedures	6
6.1	Requirements for the whole vehicle test chamber	6
6.2	Requirements for the test vehicle	7
6.2.1	General	7
6.2.2	Restricting influencing factors	8
6.2.3	Requirements for sampling train set up	8
6.2.4	Temperature and ventilation	9
6.3	Requirements for VOC and carbonyl compound air sampling and measurement methods 9 6.4 Blank measurements	10
6.4.1	Field blanks	10
6.4.2	Analytical blanks	10
7	Standard test procedure	11
7.1	General	11
7.2	Preparation of the test chamber, vehicle and field blanks	11
7.2.1	Pre-arrangements	11
7.2.2	Preconditioning of the whole vehicle test chamber	11
7.2.3	Preconditioning of the test vehicle	11
7.2.4	Field blanks	11
7.3	Detailed description of the test procedure	12
7.3.1	Ambient mode	12
7.3.2	Parking mode	12
7.3.3	Driving mode	13
8	Results	13
9	Performance characteristics	13

10	Quality assurance/quality control	14
	Annex A (informative) Whole vehicle test chamber	15
	Annex B (informative) Temperature measuring points for parking mode	16
	Annex C (informative) Test report	17
	Annex D (normative) Overview of the number of samples to be taken	28
	Bibliography	29