

# ISO/TS 17182:2014-12 (E)

## Soil quality - Determination of some selected phenols and chlorophenols - Gas chromatographic method with mass spectrometric detection

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
1	Scope .....	1
2	Normative references .....	3
3	Principle .....	3
4	Interferences .....	3
4.1	Interference with sampling and extraction .....	3
4.2	Interference with GC-MS determination .....	4
5	Reagents .....	4
5.1	Products used in their commercially available form .....	4
5.2	Aqueous solutions .....	4
5.3	Standard solutions of phenols .....	5
6	Apparatus and equipment .....	5
7	Sampling .....	6
8	Procedure .....	6
8.1	Test portion .....	6
8.2	Dry matter content .....	6
8.3	Blank sample .....	6
8.4	Standard sample .....	6
8.5	Extraction .....	6
8.6	Acetylation .....	7
8.7	Gas chromatographic analysis .....	7
8.8	Calibration .....	7
9	Calculation .....	8
9.1	Calculation of the content of substance i in the extract .....	8
9.2	Calculation of the content of selected phenol soil sample per dry matter (mg/kg dry matter) .....	9
10	Test report .....	9
Annex A (informative) Typical concentrations of the standard solutions .....		10
Annex B (informative) Example of gas chromatographic conditions .....		11
Bibliography .....		15