

Toxic Air Methods Compendium

Sr.No.	TO Methods	Description
1	TO-3	Method for determination of volatile organic compounds in ambient air using cryogenic pre-concentration technique. Applicable to compounds in the boiling range of -10° C to 200° C. Detector: FID/ECD. At Torrent these compounds are analyzed by TO-3 mod, TO-14/15.
2	TO-4A	Method for Determination of Pesticides and Polychlorinated Bi-phenyls (PCBs) in ambient air using high volume Polyurethane Foam (PUF) sampling followed by Gas Chromatography and Multi-detector (GC-MD).
3	TO-5	Method for Determination of aldehydes and ketones using High Pressure Liquid Chromatography (HPLC).
4	TO-10A	Method for Determination of Pesticides and Polychlorinated Bi-phenyls (PCBs) in ambient air using low volume Polyurethane Foam (PUF) sampling, followed by Gas Chromatography and Electron Capture Detector (GC-ECD).
5	TO-11A	Method for determination of formaldehyde in ambient air using absorbent cartridge followed by HPLC.

Method TO-4A and TO-10A are essentially the same.
Method TO-13, 4A and 10A are currently under development at Torrent.

Sr.No.	TO Methods	Description
6	TO-12	Method for determination of Non-methane Organic Compounds (NMOC) in ambient air using cryogenic pre-concentration technique and Flame Ionization Technique (FID). At Torrent this method is replaced by EPA 25.1 and 25.2
7	TO-13A	Method for determination of Polycyclic Aromatic Hydrocarbon (PAH) in ambient air by GC/MS.
8	TO-14A	Method for determination of volatile organic- compounds in ambient air using specially prepared canisters and subsequent analysis by GC-MS.
9	TO-15A	Method for determination of volatile organic- compounds in ambient air using specially prepared canisters and cryogenic pre-concentration and subsequent analysis by GC-MS.
10	TO-17	Method for determination of volatile organics compounds in ambient air using active sampling onto absorbent tubes.

Note: Methods To-3, TO-14, To-17 and TO-15 are essentially the same and can be performed by method TO-15. Remember, TO-15 follows more stringent QC and better water management (especially for hydrophilic compounds) protocols.

Method TO-12 is the same as EPA-25.1 and 25.2.