

## AIR SURVEY ANALYSES

### List of Compounds

| Method  | Method Detection Limits |                |                |                  |
|---|-------------------------|----------------|----------------|------------------|
|   | Quantitative A          | Quantitative B | Quantitative C | Semiquantitative |
| TDT Air Scan <sup>®</sup> AS002-MS                  | 10 ng                   | -              | -              | 100 ng           |
| TDT Air Scan <sup>®</sup> AS002-IR                  | -                       | 100-1000 ng    | -              | -                |
| High Sensitivity TDT Air Scan <sup>®</sup> AS002-HS | 10 ng                   | 100-1000 ng    | -              | 100 ng           |
| Canister Air Scan SC002                             | 200 ng/L                | -              | -              | -                |
| Tedlar <sup>®</sup> Bag Air Scan TB002              | -                       | 200-1500 ng/L  | 200-1500 ng/L  | -                |

#### Quantitative List A

|                             |  |                                  |                                     |
|-----------------------------|--|----------------------------------|-------------------------------------|
| Benzene                     | 1,2-Dibromo-3-chloropropane <sup>‡</sup> | 1,1-Dichloropropene              | Toluene                             |
| Bromobenzene                | Dibromomethane                           | 1,3-Dichloropropene (cis)        | 1,2,3-Trichlorobenzene <sup>‡</sup> |
| Bromochloromethane          | 1,2-Dibromoethane                        | 1,3-Dichloropropene (trans)      | 1,2,4-Trichlorobenzene <sup>‡</sup> |
| Bromodichloromethane        | 1,2-Dichlorobenzene <sup>‡</sup>         | Ethylbenzene                     | 1,1,1-Trichloroethane               |
| Bromoform                   | 1,3-Dichlorobenzene <sup>‡</sup>         | Hexachlorobutadiene <sup>‡</sup> | 1,1,2-Trichloroethane               |
| n-Butylbenzene <sup>‡</sup> | 1,4-Dichlorobenzene <sup>‡</sup>         | Isopropylbenzene                 | Trichloroethene                     |
| sec-Butylbenzene            | 1,1-Dichloroethane                       | p-Isopropyltoluene               | 1,2,3-Trichloropropane              |
| tert-Butylbenzene           | 1,2-Dichloroethane                       | Methylene Chloride               | 1,2,3-Trimethylbenzene              |
| Carbon Tetrachloride        | 1,1-Dichloroethene                       | Naphthalene <sup>‡</sup>         | 1,2,4-Trimethylbenzene              |
| Chlorobenzene               | 1,2-Dichloroethene (cis)                 | n-Propylbenzene                  | 1,3,5-Trimethylbenzene              |
| Chlorodibromomethane        | 1,2-Dichloroethene (trans)               | Styrene                          | Vinyl Chloride                      |
| Chloroform                  | 1,2-Dichloropropane                      | 1,1,1,2-Tetrachloroethane        | m & p-Xylene                        |
| 2-Chlorotoluene             | 1,3-Dichloropropane                      | 1,1,2,2-Tetrachloroethane        | o-Xylene                            |
| 4-Chlorotoluene             | 2,2-Dichloropropane                      | Tetrachloroethene                |                                     |

#### Quantitative List B

|                                |                           |                              |                     |
|--------------------------------|---------------------------|------------------------------|---------------------|
| Acetaldehyde*                  | Isopropanol* (2-Propanol) | Methanol                     | Nitroethane         |
| Acetone* (2-propanone)         | Ethyl-3-ethoxypropionate  | Methyl acetate*              | Nitromethane        |
| Acetonitrile*                  | Ethyl lactate             | Methyl formate               | 2-Pentanone*        |
| Butadiene*                     | Ethyl vinyl ether         | Methyl vinyl ether           | 1-Pentene           |
| 1-Butanol*                     | Ethanol*                  | Methyl vinyl ketone          | 2-Pentene           |
| 2-Butanone* (MEK)              | Formaldehyde              | 3-Methyl-1-butene            | Propane             |
| n-Butylacetate*                | Furan*                    | 2-Methyl-1-pentene           | n-Propanol*         |
| Chlorodifluoromethane*         | 2-Heptanone*              | 2-Methyl-2-butene            | Propionaldehyde     |
| Cyclohexane*                   | Isobutane*                | 4-Methyl-2-pentanone* (MIBK) | Propylene           |
| Cyclohexene*                   | Isobutyl acetate*         | 2-Methyl-2-pentene           | m-Pyrol             |
| Cyclopentene*                  | Isobutyl ketone*          | 4-Methyl-2-pentene           | Vinyl acetate*      |
| 1,2-Dichlorotetrafluoroethane* | Isobutylene               | 2-Methylpentane              | Vinylidene chloride |
| 1,1-Dimethyl hydrazine         | Isoprene                  | 3-Methylpentane              |                     |

#### Quantitative List C

(Tedlar<sup>®</sup> Bag method only)

|                      |                                |                      |                                    |
|----------------------|--------------------------------|----------------------|------------------------------------|
| Acetylene            | Ethane                         | Nitric oxide         | Silicon tetrafluoride              |
| Ammonia <sup>□</sup> | Ethylene                       | Nitrogen dioxide     | Sulfur dioxide                     |
| Boron trichloride    | Hexafluoroethane               | Nitrogen trifluoride | Sulfur hexafluoride                |
| Boron trifluoride    | Hexafluoropropylene            | Nitrous acid         | Tetrachlorosilane                  |
| Carbon dioxide       | Hydrobromic acid <sup>□</sup>  | Nitrous oxide        | 1,1,1,2-Tetrafluoroethane          |
| Carbon monoxide      | Hydrochloric acid <sup>□</sup> | Pentafluoroethane    | Tetramethyl silane                 |
| Carbon tetrafluoride | Hydrofluoric acid <sup>□</sup> | Perfluorobutane      | Trichlorosilane                    |
| Carbon fluoride      | Hydrogen cyanide               | Perfluoropentane     | Trifluoromethane                   |
| Diborane             | Hydroiodic acid <sup>□</sup>   | Perfluoropropane     | Tungsten hexafluoride <sup>□</sup> |
| Dichlorosilane       | Methane                        | Oxygen difluoride    | Water                              |
| Difluoromethane      | Nitric acid <sup>□</sup>       | Silane               |                                    |

**Notes**

\* At levels below the detection limit for Quantitative List B, this compound is reported as part of the Semiquantitative List

‡ Thermal desorption tubes only, compound not available in canister or Tedlar bag

□ This compound can be detected in a Tedlar bag; however, recoveries are below 100%

# Semiquantitative List

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|                             |                               |                                    |                              |                                       |
|-----------------------------|-------------------------------|------------------------------------|------------------------------|---------------------------------------|
| Acetaldehyde                | Chlorobenzaldehyde            | 1,1-Dimethylcyclohexane            | Isopropanol                  | 2-(Methylthio)-butane                 |
| Acetone (2-Propanone)       | p-Chlorobenzenethiol          | Dimethylester of                   | p-Isopropylbenzaldehyde      | Methylthiophene #                     |
| Acetonitrile                | Chlorodifluoromethane         | pentanedioic acid                  | di-Isopropyl ether           | 1-(Methylthio)-1-propene              |
| Acetophenone                | 2-Chloroethylvinylether       | 1,1-Dimethylethoxybenzene          | Isopropylmercaptan           | MTBE (Methyl tert butyl ether)        |
| Acrolein                    | p-Chlorophenol                | 2,4-Dimethylfuran                  | 1-Isopulegol                 | Myrcene                               |
| Acrylonitrile               | Chlorotrifluoroethene         | 2,5-Dimethylfuran                  | Limonene                     | Neryl acetate                         |
| Allyl alcohol (2-Propenol)  | 1-Chloro-4-trifluoro-         | 2,6-Dimethyl-4-heptanone           | Linalool                     | Nicotine                              |
| Allyl chloride              | -methylbenzene                | (Diisobutyl Ketone)                | Linalool propionate          | Nonanal                               |
| Benzaldehyde                | Citronellol                   | 2,3-Dimethylphenol                 | Menthol                      | 2-Nonanone                            |
| Benzenethiol                | Citronellyl acetate           | 2,5-Dimethylphenol                 | Mesityl methyl ketone        | 2-Nonenal (trans)                     |
| 2,3-Benzofuran              | Citronellyl formate           | 2,5-Dimethylpyrazine               | 2-(1-Methoxy)propylacetate   | Octanal                               |
| Benzonitrile                | o-Cresol                      | Dimethylsuccinate                  | 2-Methoxy-1-propanol         | Pentachloroethane                     |
| Benzothiazole               | m-Cresol                      | Di-n-butyldisulfide                | 1-Methoxy-2-propanol         | 1,3-Pentadiene                        |
| Benzylalcohol               | p-Cresol                      | Di-n-propyldisulfide               | 1-Methoxy-4-(2-propenyl)-    | Pentamethylheptane                    |
| Benzylchloride              | Crotonaldehyde (trans-        | 1,4-Dioxane                        | -benzene                     | 1-Pentanol                            |
| Benzylpropionate            | -2-Butenal)                   | Diphenylether                      | Methoxybenzene               | 2-Pentanone                           |
| Biphenyl                    | a-Cubebene                    | Dodecanal (Lauryl aldehyde)        | 1-Methoxycyclohexene         | 1-Pentylacetate                       |
| 1-Borneol                   | Cyclohexane                   | 1-Dodecanol (Lauryl alcohol)       | 2-Methoxyphenol              | 2-Pentylfuran                         |
| 4-Bromo-1-butene            | Cyclohexanol                  | 1-Dodecene                         | Menthyl acetate              | a-Phellandrene                        |
| 2-Bromo-1-chloropropane     | Cyclohexanone                 | Ethanol                            | Methyl allyl disulfide       | Phenol                                |
| 2-Bromobutane               | Cyclohexene                   | 4-Ethenyl cyclohexene              | α-Methyl benzene             | 2-Phenoxyethylacrylate                |
| Bromochloroacetonitrile     | N-Cyclohexylcyclohexanamine   | 1-Ethenyl-3-methylbenzene          | acetaldehyde                 | 4-Phenylcyclohexene (4-PCH)           |
| 2-Bromochlorobenzene        | Cyclopentane                  | Ethoxymethylbenzene                | 2-Methyl benzofuran          | 1-Phenylethylacetate                  |
| 3-Bromochlorobenzene        | Cyclopentanone                | Ethyl butyrate                     | 1-Methyl decahydro-          | Phenylethyne                          |
| 4-Bromochlorobenzene        | Cyclopentene                  | 2-Ethyl-1-hexanol                  | -naphthalene                 | Phenylmethylsulfide                   |
| Bromochlorofluoro Methane   | Decahydronaphthalene          | 2-Ethyl-1-hexene                   | 2-Methyl decahydro-          | 3-Phenyl-2-propenal                   |
| Bromodichlorobenzene        | Decanal                       | Ethyl 2-methylbutyrate             | -naphthalene                 | Pinane                                |
| Bromoethene (Vinyl Bromide) | 2-Decanone                    | Ethyl 3-methylbutyrate             | Methyl isopropyl ketone      | α/β-Pinene                            |
| Butadiene                   | Diallyl disulfide             | 2-Ethyl-4-methyl-1,3- dioxolane    | Methyl salicylate            | Propanal                              |
| Butanal                     | Diallyl sulfide               | Ethylacetate                       | Methyl styrene #             | n-Propanol                            |
| 1-Butanol                   | Diallyl tetrasulfide          | Ethylacrylate                      | Methyl thiirane              | 2-Propenyl benzene                    |
| 2-Butanol                   | Diallyl trisulfide            | Ethylbenzoate                      | 3-Methyl-1H-indole (Skatole) | n-Propylacetate                       |
| t-Butanol                   | 2,5-Dibromotoluene            | Ethylcyclohexane                   | 2-Methyl-1,3,5-hexatriene    | n-Propylamine                         |
| 2-Butanone (MEK)            | 1,1-Dichloro-1-fluoroethane   | Ethylcyclopentane                  | 2-Methyl-1,3-dioxolane       | p-Propenylanisole                     |
| 2-Butenal (trans)           | 2,3-Dichloro-1-propene        | Ethylmethylacrylate                | 2-Methyl-1-propene           | Propylcyclohexane                     |
| 1-Butoxy-2-propanol         | 1,4-Dichloro-2-butene (cis)   | m,p-Ethylmethylbenzene             | 2-Methyl-2,4-pentanediol     | 2-Propylfuran                         |
| 2-Butoxyethanol             | 1,4-Dichloro-2-butene (trans) | o-Ethylmethylbenzene               | 4-Methyl-2-pentanone (MIBK)  | Pulegone                              |
| 2-Butoxyethylacetate        | 1,1-Dichloro-2-ethenyl-       | Eucalyptol                         | 1-Methyl-2-pyrrolidinone     | Pyrazine                              |
| m-tert-Butyl phenol         | -cyclopropane                 | Eugenol                            | 2-Methyl-3-buten-2-ol        | Rose Oxide                            |
| n-Butylacetate              | Dichlorodifluoromethane       | D-Fenchol                          | Methyl-3-methoxypropionate   | Sabinene                              |
| di-n-Butylether             | Dichlorofluoromethane         | Fenchone                           | 4-Methyl-3-penten-2-one      | Sulfolane                             |
| di-t-Butylether             | 1,2-Dichlorotetrafluoroethane | Fluorobenzene                      | 6-Methyl-5-hepten-2-one      | α-Terpinene                           |
| sec-Butylethylbenzene       | (CFC-114)                     | 3-Furaldehyde                      | Methylacetate                | γ-Terpinene                           |
| 2-n-Butylfuran              | Diethyl disulfide             | 2-Furaldehyde                      | Methylacrylate               | Terpinolene                           |
| sec-Butylmercaptan          | Diethyl ether                 | Furan                              | Methylbenzoate               | α-Terpinyl acetate                    |
| tert-Butylmercaptan         | Diethylbenzene #              | 2-Furanmethanol                    | 2-Methylbutane               | Tetrahydrofuran                       |
| C 3 (Propane)               | N,N-Diethylformamide          | Geraniol                           | 2-Methylbutanal              | Texanol-A                             |
| C 4 (Butane)                | Diethylphthalate              | Heptanal                           | 3-Methylbutanal              | Texanol-B                             |
| C 5 (Pentane)               | 1,1-Difluoroethane            | 1-Heptanol                         | Methylbutylbenzene           | Thiophene                             |
| C 6 (Hexane)                | 2,5-Dihydrofuran              | 3-Heptanone                        | Methylcyclohexane            | Thiophenol                            |
| C 7 (Heptane)               | Diisopropylsulfide            | 2-Heptanone                        | Methylcyclopentane           | Triacetin                             |
| C 8 (Octane)                | 1,1-Dimethoxy-2-butene        | Heptylbenzene                      | 1-Methylcyclopentene         | Tributylamine                         |
| C 9 (Nonane)                | 1,1-Dimethoxyheptane          | Hexachloroethane                   | 1-Methylcyclopentene         | Trichlorofluoromethane                |
| C 10 (Decane)               | 1,1-Dimethoxyhexane           | 1,1,1,3,3,3-Hexafluoro-2- propanol | bis-(1-Methylethyl) benzene  | 1,1,2-Trichloro-1,2,2-trifluoroethane |
| C 11 (Undecane)             | Dimethoxymethane              | Hexanal                            | 1-Methylethylacetate         | 1,1,1-Trichloro-2-propane             |
| C 12 (Dodecane)             | 1,1-Dimethoxynonane           | 1-Hexanol                          | Methylethylbenzene #         | Trichlorobenzene #                    |
| C 13 (Tridecane)            | 1,1-Dimethoxyoctane           | 1-Hexene                           | Methylethylsulfide           | Tricyclene                            |
| C 14 (Tetradecane)          | 1,2-Dimethoxypropane          | 3-Hexene                           | Methylethylsulfide           | Triethylamine                         |
| Camphene                    | N,N-Dimethyl acetamide        | 4-Hydroxy-4-methyl-2-pentanone     | 2-Methylfuran                | Triethylbenzene #                     |
| Camphor                     | Dimethyladipate               | Indene                             | 3-Methylhexane               | 1,3,5-Triisopropylbenzene             |
| Carbon disulfide            | Dimethyl amine                | Indole                             | Methylisothiocyanate         | 1,2,3-Trimethylbenzene                |
| Carbontetrabromide          | N,N-Dimethyl benzenamine      | Iodomethane                        | Methylmethacrylate           | Trimethylcyclohexane                  |
| 3-Carene                    | Dimethyl disulfide            | Isobornylacetate                   | 2-Methylmethylpropionate     | 3,3,5-Trimethylcyclohexanone          |
| Caryophyllene               | 1,3-bis(1,1-Dimethylethyl)-   | Isobutane                          | 1-Methylnaphthalene          | Trimethylethylbenzene #               |
| α-Cedrene                   | -benzene                      | Isobutanol (2-Methyl-1-            | 2-Methylnaphthalene          | 2,2,4-Trimethylpentane                |
| Cedrol                      | Dimethyl ether                | -propanol)                         | Methyl-n-pentylsulfide       | Trimethylsilane                       |
| 1-Chloro-1,1-difluoroethane | 2,5-Dimethylpyrazine          | Isobutylacetate                    | Methyl-n-propylsulfide       | Trimethylsilanol                      |
| 1-Chloro-1-fluoroethene     | Dimethyl sulfide              | Isobutylketone                     | Methyl-n-propylsulfide       | 1,2,4-Trithiolane                     |
| Chloroaniline               | Dimethyl trisulfide           | Isofluorane                        | 3-Methyloctane               | Valeraldehyde (Pentanal)              |
| Chloroethane                | 2,2-Dimethyl-1-pentanol       | Isononyl acetate                   | 2-Methylpyridine             | Vinyl acetate                         |
| 3-Chloro-2-methyl-1-propene | N,N-Dimethylcyclohexanamine   |                                    | α-Methylstyrene              | # isomers of                          |

For compounds not on this list or for more information call:  
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