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Appendix C—Soil Gas Analysis of Vadose Zone Monitoring System Installation Report for McClellan AFB

Earth Sciences Division

October 1996

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APPENDIX C--SOIL GAS ANALYSIS

of

Vadose Zone Monitoring System Installation Report for McClellan AFB

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**Earth Sciences Division
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Berkeley, CA 94720**

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October 31, 1996

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SOIL GAS ANALYSIS FOR VZMS-A

Note that sample references to VZMS-1 (or V-2MS1 as used here) correspond to VZMS-A.

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG01N

ID#: 9512146-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121415	Date of Collection:	12/13/95
Dil. Factor:	170	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	85	Not Detected
Freon 114	85	Not Detected
Chloromethane	85	Not Detected
Vinyl Chloride	85	270
Bromomethane	85	Not Detected
Chloroethane	85	Not Detected
Freon 11	85	Not Detected
1,1-Dichloroethene	85	Not Detected
Freon 113	85	Not Detected
Methylene Chloride	85	91
1,1-Dichloroethane	85	Not Detected
cis-1,2-Dichloroethene	85	37000 E
Chloroform	85	Not Detected
1,1,1-Trichloroethane	85	Not Detected
Carbon Tetrachloride	85	Not Detected
Benzene	85	100
1,2-Dichloroethane	85	160
Trichloroethene	85	38000 E
1,2-Dichloropropane	85	Not Detected
trans-1,3-Dichloropropene	85	Not Detected
Toluene	85	Not Detected
cis-1,3-Dichloropropene	85	Not Detected
1,1,2-Trichloroethane	85	Not Detected
Tetrachloroethene	85	Not Detected
Ethylene Dibromide	85	Not Detected
Chlorobenzene	85	Not Detected
Ethyl Benzene	85	Not Detected
m,p-Xylene	85	Not Detected
o-Xylene	85	Not Detected
Styrene	85	Not Detected
1,1,2,2-Tetrachloroethane	85	Not Detected
1,3,5-Trimethylbenzene	85	Not Detected
1,2,4-Trimethylbenzene	85	Not Detected
1,3-Dichlorobenzene	85	100
1,4-Dichlorobenzene	85	400
Chlorotoluene	85	Not Detected
1,2-Dichlorobenzene	85	240
1,2,4-Trichlorobenzene	85	Not Detected
Hexachlorobutadiene	85	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG01N

ID#: 9512146-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121415	Date of Collection:	12/13/95
Dil. Factor:	170	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	340	740
1,3-Butadiene	340	Not Detected
Acetone	340	Not Detected
trans-1,2-Dichloroethene	340	Not Detected
Chloroprene	340	Not Detected
Cyclohexane	340	Not Detected
2-Hexanone	340	Not Detected
Bromoform	340	Not Detected
n-Octane	340	Not Detected

E = Exceeds instrument calibration range, but within linear range.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	90	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG02N

ID#: 9512146-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121416	Date of Collection:	12/13/95
Dil. Factor:	42	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	21	Not Detected
Freon 114	21	Not Detected
Chloromethane	21	Not Detected
Vinyl Chloride	21	27
Bromomethane	21	Not Detected
Chloroethane	21	Not Detected
Freon 11	21	Not Detected
1,1-Dichloroethene	21	Not Detected
Freon 113	21	Not Detected
Methylene Chloride	21	45
1,1-Dichloroethane	21	Not Detected
cis-1,2-Dichloroethene	21	2300
Chloroform	21	Not Detected
1,1,1-Trichloroethane	21	Not Detected
Carbon Tetrachloride	21	Not Detected
Benzene	21	Not Detected
1,2-Dichloroethane	21	92
Trichloroethene	21	4400
1,2-Dichloropropane	21	Not Detected
trans-1,3-Dichloropropene	21	Not Detected
Toluene	21	Not Detected
cis-1,3-Dichloropropene	21	Not Detected
1,1,2-Trichloroethane	21	Not Detected
Tetrachloroethene	21	Not Detected
Ethylene Dibromide	21	Not Detected
Chlorobenzene	21	Not Detected
Ethyl Benzene	21	Not Detected
m,p-Xylene	21	Not Detected
o-Xylene	21	920
Styrene	21	Not Detected
1,1,2,2-Tetrachloroethane	21	Not Detected
1,3,5-Trimethylbenzene	21	1700
1,2,4-Trimethylbenzene	21	540
1,3-Dichlorobenzene	21	70
1,4-Dichlorobenzene	21	490
Chlorotoluene	21	Not Detected
1,2-Dichlorobenzene	21	31
1,2,4-Trichlorobenzene	21	Not Detected
Hexachlorobutadiene	21	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG02N

ID#: 9512146-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121416	Date of Collection:	12/13/95
Dil. Factor:	42	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	84	390
1,3-Butadiene	84	Not Detected
Acetone	84	86
trans-1,2-Dichloroethene	84	Not Detected
Chloroprene	84	Not Detected
Cyclohexane	84	Not Detected
2-Hexanone	84	Not Detected
Bromoform	84	Not Detected
n-Octane	84	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	91	70-130

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SAMPLE NAME: V-2MS1-SG03N

ID#: 9512146-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121417	Date of Collection:	12/13/95
Dil. Factor:	8.5	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.3	Not Detected
Freon 114	4.3	Not Detected
Chloromethane	4.3	Not Detected
Vinyl Chloride	4.3	5.2
Bromomethane	4.3	Not Detected
Chloroethane	4.3	Not Detected
Freon 11	4.3	Not Detected
1,1-Dichloroethane	4.3	Not Detected
Freon 113	4.3	Not Detected
Methylene Chloride	4.3	12
1,1-Dichloroethane	4.3	6.7
cis-1,2-Dichloroethene	4.3	560
Chloroform	4.3	4.3
1,1,1-Trichloroethane	4.3	Not Detected
Carbon Tetrachloride	4.3	Not Detected
Benzene	4.3	Not Detected
1,2-Dichloroethane	4.3	46
Trichloroethene	4.3	940
1,2-Dichloropropane	4.3	Not Detected
trans-1,3-Dichloropropene	4.3	Not Detected
Toluene	4.3	7.2
cis-1,3-Dichloropropene	4.3	Not Detected
1,1,2-Trichloroethane	4.3	Not Detected
Tetrachloroethene	4.3	Not Detected
Ethylene Dibromide	4.3	Not Detected
Chlorobenzene	4.3	Not Detected
Ethyl Benzene	4.3	Not Detected
m,p-Xylene	4.3	Not Detected
o-Xylene	4.3	250
Styrene	4.3	Not Detected
1,1,2,2-Tetrachloroethane	4.3	Not Detected
1,3,5-Trimethylbenzene	4.3	610
1,2,4-Trimethylbenzene	4.3	250
1,3-Dichlorobenzene	4.3	26
1,4-Dichlorobenzene	4.3	180
Chlorotoluene	4.3	Not Detected
1,2-Dichlorobenzene	4.3	31
1,2,4-Trichlorobenzene	4.3	Not Detected
Hexachlorobutadiene	4.3	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG03N

ID#: 9512146-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121417	Date of Collection:	12/13/95
Dil. Factor:	8.5	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	17	160
1,3-Butadiene	17	Not Detected
Acetone	17	50
trans-1,2-Dichloroethene	17	Not Detected
Chloroprene	17	Not Detected
Cyclohexane	17	Not Detected
2-Hexanone	17	Not Detected
Bromoform	17	Not Detected
n-Octane	17	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	94	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	89	70-130

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SAMPLE NAME: V-2MS1-SG04N

ID#: 9512146-04A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121408	Date of Collection:	12/13/95
Dil. Factor:	8.1	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.1	Not Detected
Freon 114	4.1	Not Detected
Chloromethane	4.1	Not Detected
Vinyl Chloride	4.1	Not Detected
Bromomethane	4.1	Not Detected
Chloroethane	4.1	Not Detected
Freon 11	4.1	Not Detected
1,1-Dichloroethene	4.1	Not Detected
Freon 113	4.1	Not Detected
Methylene Chloride	4.1	Not Detected
1,1-Dichloroethane	4.1	Not Detected
cis-1,2-Dichloroethene	4.1	Not Detected
Chloroform	4.1	Not Detected
1,1,1-Trichloroethane	4.1	Not Detected
Carbon Tetrachloride	4.1	Not Detected
Benzene	4.1	Not Detected
1,2-Dichloroethane	4.1	Not Detected
Trichloroethene	4.1	Not Detected
1,2-Dichloropropane	4.1	Not Detected
trans-1,3-Dichloropropene	4.1	Not Detected
Toluene	4.1	Not Detected
cis-1,3-Dichloropropene	4.1	Not Detected
1,1,2-Trichloroethane	4.1	Not Detected
Tetrachloroethene	4.1	7.5
Ethylene Dibromide	4.1	Not Detected
Chlorobenzene	4.1	Not Detected
Ethyl Benzene	4.1	Not Detected
m,p-Xylene	4.1	Not Detected
o-Xylene	4.1	8.0
Styrene	4.1	Not Detected
1,1,2,2-Tetrachloroethane	4.1	Not Detected
1,3,5-Trimethylbenzene	4.1	20
1,2,4-Trimethylbenzene	4.1	9.0
1,3-Dichlorobenzene	4.1	Not Detected
1,4-Dichlorobenzene	4.1	6.9
Chlorotoluene	4.1	Not Detected
1,2-Dichlorobenzene	4.1	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected
Hexachlorobutadiene	4.1	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG04N

ID#: 9512146-04A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121408	Date of Collection:	12/13/95
Dil. Factor:	8.1	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	Not Detected
1,3-Butadiene	16	Not Detected
Acetone	16	31
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	91	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG04N Duplicate

ID#: 9512146-04B

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121409	Date of Collection: 12/13/95
Dil. Factor:	8.1	Date of Analysis: 12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.1	Not Detected
Freon 114	4.1	Not Detected
Chloromethane	4.1	Not Detected
Vinyl Chloride	4.1	Not Detected
Bromomethane	4.1	Not Detected
Chloroethane	4.1	Not Detected
Freon 11	4.1	Not Detected
1,1-Dichloroethene	4.1	Not Detected
Freon 113	4.1	Not Detected
Methylene Chloride	4.1	Not Detected
1,1-Dichloroethane	4.1	Not Detected
cis-1,2-Dichloroethene	4.1	Not Detected
Chloroform	4.1	Not Detected
1,1,1-Trichloroethane	4.1	Not Detected
Carbon Tetrachloride	4.1	Not Detected
Benzene	4.1	Not Detected
1,2-Dichloroethane	4.1	Not Detected
Trichloroethene	4.1	Not Detected
1,2-Dichloropropane	4.1	Not Detected
trans-1,3-Dichloropropene	4.1	Not Detected
Toluene	4.1	Not Detected
cis-1,3-Dichloropropene	4.1	Not Detected
1,1,2-Trichloroethane	4.1	Not Detected
Tetrachloroethene	4.1	6.2
Ethylene Dibromide	4.1	Not Detected
Chlorobenzene	4.1	Not Detected
Ethyl Benzene	4.1	Not Detected
m,p-Xylene	4.1	Not Detected
o-Xylene	4.1	7.9
Styrene	4.1	Not Detected
1,1,2,2-Tetrachloroethane	4.1	Not Detected
1,3,5-Trimethylbenzene	4.1	18
1,2,4-Trimethylbenzene	4.1	7.6
1,3-Dichlorobenzene	4.1	Not Detected
1,4-Dichlorobenzene	4.1	5.6
Chlorotoluene	4.1	Not Detected
1,2-Dichlorobenzene	4.1	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected
Hexachlorobutadiene	4.1	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG04N Duplicate

ID#: 9512146-04B

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121409	Date of Collection:	12/13/95
Dil. Factor:	8.1	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	Not Detected
1,3-Butadiene	16	Not Detected
Acetone	16	22
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG05N

ID#: 9512146-05A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121411	Date of Collection:	12/13/95
Dil. Factor:	8.2	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.1	Not Detected
Freon 114	4.1	Not Detected
Chloromethane	4.1	Not Detected
Vinyl Chloride	4.1	Not Detected
Bromomethane	4.1	Not Detected
Chloroethane	4.1	Not Detected
Freon 11	4.1	Not Detected
1,1-Dichloroethene	4.1	Not Detected
Freon 113	4.1	Not Detected
Methylene Chloride	4.1	5.3
1,1-Dichloroethane	4.1	Not Detected
cis-1,2-Dichloroethene	4.1	24
Chloroform	4.1	Not Detected
1,1,1-Trichloroethane	4.1	Not Detected
Carbon Tetrachloride	4.1	Not Detected
Benzene	4.1	6.8
1,2-Dichloroethane	4.1	4.8
Trichloroethene	4.1	33
1,2-Dichloropropane	4.1	Not Detected
trans-1,3-Dichloropropene	4.1	Not Detected
Toluene	4.1	5.3
cis-1,3-Dichloropropene	4.1	Not Detected
1,1,2-Trichloroethane	4.1	Not Detected
Tetrachloroethene	4.1	30
Ethylene Dibromide	4.1	Not Detected
Chlorobenzene	4.1	Not Detected
Ethyl Benzene	4.1	Not Detected
m,p-Xylene	4.1	Not Detected
o-Xylene	4.1	5.6
Styrene	4.1	Not Detected
1,1,2,2-Tetrachloroethane	4.1	Not Detected
1,3,5-Trimethylbenzene	4.1	10
1,2,4-Trimethylbenzene	4.1	7.8
1,3-Dichlorobenzene	4.1	4.7
1,4-Dichlorobenzene	4.1	32
Chlorotoluene	4.1	Not Detected
1,2-Dichlorobenzene	4.1	140
1,2,4-Trichlorobenzene	4.1	Not Detected
Hexachlorobutadiene	4.1	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG05N

ID#: 9512146-05A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121411	Date of Collection:	12/13/95
Dil. Factor:	8.2	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	140
1,3-Butadiene	16	Not Detected
Acetone	16	43
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	95	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG05F

ID#: 9512146-06A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121410	Date of Collection: 12/13/95
Dil. Factor:	8.2	Date of Analysis: 12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.1	Not Detected
Freon 114	4.1	Not Detected
Chloromethane	4.1	Not Detected
Vinyl Chloride	4.1	Not Detected
Bromomethane	4.1	Not Detected
Chloroethane	4.1	Not Detected
Freon 11	4.1	Not Detected
1,1-Dichloroethene	4.1	Not Detected
Freon 113	4.1	Not Detected
Methylene Chloride	4.1	5.1
1,1-Dichloroethane	4.1	Not Detected
cis-1,2-Dichloroethene	4.1	24
Chloroform	4.1	Not Detected
1,1,1-Trichloroethane	4.1	Not Detected
Carbon Tetrachloride	4.1	Not Detected
Benzene	4.1	6.8
1,2-Dichloroethane	4.1	Not Detected
Trichloroethene	4.1	31
1,2-Dichloropropane	4.1	Not Detected
trans-1,3-Dichloropropene	4.1	Not Detected
Toluene	4.1	6.3
cis-1,3-Dichloropropene	4.1	Not Detected
1,1,2-Trichloroethane	4.1	Not Detected
Tetrachloroethene	4.1	Not Detected
Ethylene Dibromide	4.1	Not Detected
Chlorobenzene	4.1	Not Detected
Ethyl Benzene	4.1	Not Detected
m,p-Xylene	4.1	Not Detected
o-Xylene	4.1	4.4
Styrene	4.1	Not Detected
1,1,2,2-Tetrachloroethane	4.1	Not Detected
1,3,5-Trimethylbenzene	4.1	12
1,2,4-Trimethylbenzene	4.1	4.7
1,3-Dichlorobenzene	4.1	5.4
1,4-Dichlorobenzene	4.1	39
Chlorotoluene	4.1	Not Detected
1,2-Dichlorobenzene	4.1	160
1,2,4-Trichlorobenzene	4.1	Not Detected
Hexachlorobutadiene	4.1	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG05F

ID#: 9512146-06A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121410	Date of Collection:	12/13/95
Dil. Factor:	8.2	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	140
1,3-Butadiene	16	Not Detected
Acetone	16	51
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	94	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG06N

ID#: 9512146-07A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121412	Date of Collection: 12/13/95
Dil. Factor:	8.1	Date of Analysis: 12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.1	Not Detected
Freon 114	4.1	Not Detected
Chloromethane	4.1	Not Detected
Vinyl Chloride	4.1	Not Detected
Bromomethane	4.1	Not Detected
Chloroethane	4.1	Not Detected
Freon 11	4.1	Not Detected
1,1-Dichloroethene	4.1	Not Detected
Freon 113	4.1	Not Detected
Methylene Chloride	4.1	Not Detected
1,1-Dichloroethane	4.1	Not Detected
cis-1,2-Dichloroethene	4.1	36
Chloroform	4.1	Not Detected
1,1,1-Trichloroethane	4.1	Not Detected
Carbon Tetrachloride	4.1	Not Detected
Benzene	4.1	4.4
1,2-Dichloroethane	4.1	6.3
Trichloroethene	4.1	28
1,2-Dichloropropane	4.1	Not Detected
trans-1,3-Dichloropropene	4.1	Not Detected
Toluene	4.1	5.5
cis-1,3-Dichloropropene	4.1	Not Detected
1,1,2-Trichloroethane	4.1	Not Detected
Tetrachloroethene	4.1	Not Detected
Ethylene Dibromide	4.1	Not Detected
Chlorobenzene	4.1	Not Detected
Ethyl Benzene	4.1	Not Detected
m,p-Xylene	4.1	6.1
o-Xylene	4.1	23
Styrene	4.1	Not Detected
1,1,2,2-Tetrachloroethane	4.1	Not Detected
1,3,5-Trimethylbenzene	4.1	76
1,2,4-Trimethylbenzene	4.1	29
1,3-Dichlorobenzene	4.1	5.2
1,4-Dichlorobenzene	4.1	39
Chlorotoluene	4.1	Not Detected
1,2-Dichlorobenzene	4.1	44
1,2,4-Trichlorobenzene	4.1	Not Detected
Hexachlorobutadiene	4.1	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG06N

ID#: 9512146-07A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121412	Date of Collection:	12/13/95
Dil. Factor:	8.1	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	33
1,3-Butadiene	16	Not Detected
Acetone	16	34
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	91	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG07N

ID#: 9512146-08A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121413	Date of Collection:	12/13/95
Dil. Factor:	8.5	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.3	Not Detected
Freon 114	4.3	Not Detected
Chloromethane	4.3	Not Detected
Vinyl Chloride	4.3	Not Detected
Bromomethane	4.3	Not Detected
Chloroethane	4.3	Not Detected
Freon 11	4.3	Not Detected
1,1-Dichloroethene	4.3	Not Detected
Freon 113	4.3	Not Detected
Methylene Chloride	4.3	67
1,1-Dichloroethane	4.3	4.8
cis-1,2-Dichloroethene	4.3	150
Chloroform	4.3	6.0
1,1,1-Trichloroethane	4.3	Not Detected
Carbon Tetrachloride	4.3	Not Detected
Benzene	4.3	4.4
1,2-Dichloroethane	4.3	30
Trichloroethene	4.3	120
1,2-Dichloropropane	4.3	Not Detected
trans-1,3-Dichloropropene	4.3	Not Detected
Toluene	4.3	Not Detected
cis-1,3-Dichloropropene	4.3	Not Detected
1,1,2-Trichloroethane	4.3	Not Detected
Tetrachloroethene	4.3	Not Detected
Ethylene Dibromide	4.3	Not Detected
Chlorobenzene	4.3	Not Detected
Ethyl Benzene	4.3	Not Detected
m,p-Xylene	4.3	5.1
o-Xylene	4.3	Not Detected
Styrene	4.3	Not Detected
1,1,2,2-Tetrachloroethane	4.3	Not Detected
1,3,5-Trimethylbenzene	4.3	12
1,2,4-Trimethylbenzene	4.3	Not Detected
1,3-Dichlorobenzene	4.3	12
1,4-Dichlorobenzene	4.3	71
Chlorotoluene	4.3	Not Detected
1,2-Dichlorobenzene	4.3	13
1,2,4-Trichlorobenzene	4.3	Not Detected
Hexachlorobutadiene	4.3	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG07N

ID#: 9512146-08A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121413	Date of Collection:	12/13/95
Dil. Factor:	8.5	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	17	150
1,3-Butadiene	17	Not Detected
Acetone	17	18
trans-1,2-Dichloroethene	17	Not Detected
Chloroprene	17	Not Detected
Cyclohexane	17	Not Detected
2-Hexanone	17	Not Detected
Bromoform	17	Not Detected
n-Octane	17	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	90	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG08N

ID#: 9512146-09A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121414	Date of Collection:	12/13/95
Dil. Factor:	17	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	8.5	Not Detected
Freon 114	8.5	Not Detected
Chloromethane	8.5	Not Detected
Vinyl Chloride	8.5	Not Detected
Bromomethane	8.5	Not Detected
Chloroethane	8.5	Not Detected
Freon 11	8.5	Not Detected
1,1-Dichloroethene	8.5	Not Detected
Freon 113	8.5	Not Detected
Methylene Chloride	8.5	45
1,1-Dichloroethane	8.5	12
cis-1,2-Dichloroethene	8.5	220
Chloroform	8.5	Not Detected
1,1,1-Trichloroethane	8.5	Not Detected
Carbon Tetrachloride	8.5	Not Detected
Benzene	8.5	14
1,2-Dichloroethane	8.5	11
Trichloroethene	8.5	390
1,2-Dichloropropane	8.5	Not Detected
trans-1,3-Dichloropropene	8.5	Not Detected
Toluene	8.5	Not Detected
cis-1,3-Dichloropropene	8.5	Not Detected
1,1,2-Trichloroethane	8.5	Not Detected
Tetrachloroethene	8.5	Not Detected
Ethylene Dibromide	8.5	Not Detected
Chlorobenzene	8.5	10
Ethyl Benzene	8.5	Not Detected
m,p-Xylene	8.5	Not Detected
o-Xylene	8.5	Not Detected
Styrene	8.5	Not Detected
1,1,2,2-Tetrachloroethane	8.5	Not Detected
1,3,5-Trimethylbenzene	8.5	17
1,2,4-Trimethylbenzene	8.5	Not Detected
1,3-Dichlorobenzene	8.5	Not Detected
1,4-Dichlorobenzene	8.5	Not Detected
Chlorotoluene	8.5	Not Detected
1,2-Dichlorobenzene	8.5	Not Detected
1,2,4-Trichlorobenzene	8.5	Not Detected
Hexachlorobutadiene	8.5	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG08N

ID#: 9512146-09A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121414	Date of Collection:	12/13/95
Dil. Factor:	17	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	34	160
1,3-Butadiene	34	Not Detected
Acetone	34	Not Detected
trans-1,2-Dichloroethene	34	Not Detected
Chloroprene	34	Not Detected
Cyclohexane	34	Not Detected
2-Hexanone	34	Not Detected
Bromoform	34	Not Detected
n-Octane	34	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG09N

ID#: 9512146-10A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121424	Date of Collection:	12/13/95
Dil. Factor:	71	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	36	Not Detected
Freon 114	36	Not Detected
Chloromethane	36	Not Detected
Vinyl Chloride	36	Not Detected
Bromomethane	36	Not Detected
Chloroethane	36	Not Detected
Freon 11	36	Not Detected
1,1-Dichloroethene	36	Not Detected
Freon 113	36	Not Detected
Methylene Chloride	36	Not Detected
1,1-Dichloroethane	36	Not Detected
cis-1,2-Dichloroethene	36	Not Detected
Chloroform	36	Not Detected
1,1,1-Trichloroethane	36	Not Detected
Carbon Tetrachloride	36	Not Detected
Benzene	36	Not Detected
1,2-Dichloroethane	36	Not Detected
Trichloroethene	36	Not Detected
1,2-Dichloropropane	36	Not Detected
trans-1,3-Dichloropropene	36	Not Detected
Toluene	36	Not Detected
cis-1,3-Dichloropropene	36	Not Detected
1,1,2-Trichloroethane	36	Not Detected
Tetrachloroethene	36	Not Detected
Ethylene Dibromide	36	Not Detected
Chlorobenzene	36	Not Detected
Ethyl Benzene	36	Not Detected
m,p-Xylene	36	Not Detected
o-Xylene	36	Not Detected
Styrene	36	Not Detected
1,1,2,2-Tetrachloroethane	36	Not Detected
1,3,5-Trimethylbenzene	36	Not Detected
1,2,4-Trimethylbenzene	36	Not Detected
1,3-Dichlorobenzene	36	Not Detected
1,4-Dichlorobenzene	36	Not Detected
Chlorotoluene	36	Not Detected
1,2-Dichlorobenzene	36	Not Detected
1,2,4-Trichlorobenzene	36	Not Detected
Hexachlorobutadiene	36	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG09N

ID#: 9512146-10A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121424	Date of Collection:	12/13/95
Dil. Factor:	71	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	140	1200
1,3-Butadiene	140	Not Detected
Acetone	140	10000
trans-1,2-Dichloroethene	140	Not Detected
Chloroprene	140	Not Detected
Cyclohexane	140	Not Detected
2-Hexanone	140	Not Detected
Bromoform	140	Not Detected
n-Octane	140	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG10N

ID#: 9512146-11A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121419	Date of Collection:	12/13/95
Dil. Factor:	8.1	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.1	Not Detected
Freon 114	4.1	Not Detected
Chloromethane	4.1	Not Detected
Vinyl Chloride	4.1	Not Detected
Bromomethane	4.1	Not Detected
Chloroethane	4.1	Not Detected
Freon 11	4.1	Not Detected
1,1-Dichloroethene	4.1	Not Detected
Freon 113	4.1	Not Detected
Methylene Chloride	4.1	Not Detected
1,1-Dichloroethane	4.1	Not Detected
cis-1,2-Dichloroethene	4.1	Not Detected
Chloroform	4.1	Not Detected
1,1,1-Trichloroethane	4.1	Not Detected
Carbon Tetrachloride	4.1	Not Detected
Benzene	4.1	Not Detected
1,2-Dichloroethane	4.1	Not Detected
Trichloroethene	4.1	11
1,2-Dichloropropane	4.1	Not Detected
trans-1,3-Dichloropropene	4.1	Not Detected
Toluene	4.1	5.1
cis-1,3-Dichloropropene	4.1	Not Detected
1,1,2-Trichloroethane	4.1	Not Detected
Tetrachloroethene	4.1	Not Detected
Ethylene Dibromide	4.1	Not Detected
Chlorobenzene	4.1	Not Detected
Ethyl Benzene	4.1	Not Detected
m,p-Xylene	4.1	Not Detected
o-Xylene	4.1	Not Detected
Styrene	4.1	Not Detected
1,1,2,2-Tetrachloroethane	4.1	Not Detected
1,3,5-Trimethylbenzene	4.1	Not Detected
1,2,4-Trimethylbenzene	4.1	Not Detected
1,3-Dichlorobenzene	4.1	Not Detected
1,4-Dichlorobenzene	4.1	Not Detected
Chlorotoluene	4.1	Not Detected
1,2-Dichlorobenzene	4.1	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected
Hexachlorobutadiene	4.1	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-2MS1-SG10N

ID#: 9512146-11A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121419	Date of Collection:	12/13/95
Dil. Factor:	8.1	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	71
1,3-Butadiene	16	Not Detected
Acetone	16	1200
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: Method Spike

ID#: 9512146-12A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121405	Date of Collection: NA
Dil. Factor:	1.0	Date of Analysis: 12/14/95

Compound	Det. Limit (ppbv)	% Recovery
Freon 12	0.50	92
Freon 114	0.50	95
Chloromethane	0.50	84
Vinyl Chloride	0.50	85
Bromomethane	0.50	93
Chloroethane	0.50	84
Freon 11	0.50	90
1,1-Dichloroethene	0.50	92
Freon 113	0.50	95
Methylene Chloride	0.50	86
1,1-Dichloroethane	0.50	88
cis-1,2-Dichloroethene	0.50	94
Chloroform	0.50	97
1,1,1-Trichloroethane	0.50	92
Carbon Tetrachloride	0.50	95
Benzene	0.50	100
1,2-Dichloroethane	0.50	99
Trichloroethene	0.50	107
1,2-Dichloropropane	0.50	89
trans-1,3-Dichloropropene	0.50	89
Toluene	0.50	104
cis-1,3-Dichloropropene	0.50	94
1,1,2-Trichloroethane	0.50	106
Tetrachloroethene	0.50	115
Ethylene Dibromide	0.50	106
Chlorobenzene	0.50	104
Ethyl Benzene	0.50	97
m,p-Xylene	0.50	96
o-Xylene	0.50	97
Styrene	0.50	72
1,1,2,2-Tetrachloroethane	0.50	112
1,3,5-Trimethylbenzene	0.50	102
1,2,4-Trimethylbenzene	0.50	110
1,3-Dichlorobenzene	0.50	122
1,4-Dichlorobenzene	0.50	125
Chlorotoluene	0.50	71
1,2-Dichlorobenzene	0.50	126
1,2,4-Trichlorobenzene	0.50	130
Hexachlorobutadiene	0.50	120

AIR TOXICS LTD.

SAMPLE NAME: Method Spike

ID#: 9512146-12A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121405	Date of Collection:	NA
Dil. Factor:	1.0	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	% Recovery
Propylene	2.0	72
1,3-Butadiene	2.0	76
Acetone	2.0	69
trans-1,2-Dichloroethene	2.0	86
Chloroprene	2.0	76
Cyclohexane	2.0	82
2-Hexanone	2.0	52 Q
Bromoform	2.0	79
n-Octane	2.0	78

Q = Exceeds Quality Control limits.

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9512146-13A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121407	Date of Collection: NA
Dil. Factor:	1.0	Date of Analysis: 12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	0.50	Not Detected
Freon 114	0.50	Not Detected
Chloromethane	0.50	Not Detected
Vinyl Chloride	0.50	Not Detected
Bromomethane	0.50	Not Detected
Chloroethane	0.50	Not Detected
Freon 11	0.50	Not Detected
1,1-Dichloroethene	0.50	Not Detected
Freon 113	0.50	Not Detected
Methylene Chloride	0.50	Not Detected
1,1-Dichloroethane	0.50	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected
Chloroform	0.50	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected
Carbon Tetrachloride	0.50	Not Detected
Benzene	0.50	Not Detected
1,2-Dichloroethane	0.50	Not Detected
Trichloroethene	0.50	Not Detected
1,2-Dichloropropane	0.50	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected
Toluene	0.50	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected
Tetrachloroethene	0.50	Not Detected
Ethylene Dibromide	0.50	Not Detected
Chlorobenzene	0.50	Not Detected
Ethyl Benzene	0.50	Not Detected
m,p-Xylene	0.50	Not Detected
o-Xylene	0.50	Not Detected
Styrene	0.50	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected
Chlorotoluene	0.50	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected
Hexachlorobutadiene	0.50	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9512146-13A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121407	Date of Collection:	NA
Dil. Factor:	1.0	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	2.0	Not Detected
1,3-Butadiene	2.0	Not Detected
Acetone	2.0	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected
Chloroprene	2.0	Not Detected
Cyclohexane	2.0	Not Detected
2-Hexanone	2.0	Not Detected
Bromoform	2.0	Not Detected
n-Octane	2.0	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9512146-13B

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121423	Date of Collection: NA
Dil. Factor:	1.0	Date of Analysis: 12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	0.50	Not Detected
Freon 114	0.50	Not Detected
Chloromethane	0.50	Not Detected
Vinyl Chloride	0.50	Not Detected
Bromomethane	0.50	Not Detected
Chloroethane	0.50	Not Detected
Freon 11	0.50	Not Detected
1,1-Dichloroethene	0.50	Not Detected
Freon 113	0.50	Not Detected
Methylene Chloride	0.50	Not Detected
1,1-Dichloroethane	0.50	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected
Chloroform	0.50	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected
Carbon Tetrachloride	0.50	Not Detected
Benzene	0.50	Not Detected
1,2-Dichloroethane	0.50	Not Detected
Trichloroethene	0.50	Not Detected
1,2-Dichloropropane	0.50	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected
Toluene	0.50	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected
Tetrachloroethene	0.50	Not Detected
Ethylene Dibromide	0.50	Not Detected
Chlorobenzene	0.50	Not Detected
Ethyl Benzene	0.50	Not Detected
m,p-Xylene	0.50	Not Detected
o-Xylene	0.50	Not Detected
Styrene	0.50	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected
Chlorotoluene	0.50	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected
Hexachlorobutadiene	0.50	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9512146-13B

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121423	Date of Collection:	NA
Dil. Factor:	1.0	Date of Analysis:	12/14/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	2.0	Not Detected
1,3-Butadiene	2.0	Not Detected
Acetone	2.0	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected
Chloroprene	2.0	Not Detected
Cyclohexane	2.0	Not Detected
2-Hexanone	2.0	Not Detected
Bromoform	2.0	Not Detected
n-Octane	2.0	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	87	70-130

SOIL GAS ANALYSIS FOR VZMS-B

Note that sample references to VZMS-2 (or V-ZMS2 as used here) correspond to VZMS-B.

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG01N

ID#: 9512156-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121510	Date of Collection:	12/14/95
Dil. Factor:	11	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	5.5	Not Detected
Freon 114	5.5	Not Detected
Chloromethane	5.5	Not Detected
Vinyl Chloride	5.5	Not Detected
Bromomethane	5.5	Not Detected
Chloroethane	5.5	Not Detected
Freon 11	5.5	Not Detected
1,1-Dichloroethene	5.5	Not Detected
Freon 113	5.5	Not Detected
Methylene Chloride	5.5	Not Detected
1,1-Dichloroethane	5.5	Not Detected
cis-1,2-Dichloroethene	5.5	1500
Chloroform	5.5	Not Detected
1,1,1-Trichloroethane	5.5	Not Detected
Carbon Tetrachloride	5.5	Not Detected
Benzene	5.5	Not Detected
1,2-Dichloroethane	5.5	12
Trichloroethene	5.5	2100
1,2-Dichloropropane	5.5	Not Detected
trans-1,3-Dichloropropene	5.5	Not Detected
Toluene	5.5	Not Detected
cis-1,3-Dichloropropene	5.5	Not Detected
1,1,2-Trichloroethane	5.5	Not Detected
Tetrachloroethene	5.5	Not Detected
Ethylene Dibromide	5.5	Not Detected
Chlorobenzene	5.5	Not Detected
Ethyl Benzene	5.5	Not Detected
m,p-Xylene	5.5	Not Detected
o-Xylene	5.5	Not Detected
Styrene	5.5	Not Detected
1,1,2,2-Tetrachloroethane	5.5	Not Detected
1,3,5-Trimethylbenzene	5.5	Not Detected
1,2,4-Trimethylbenzene	5.5	Not Detected
1,3-Dichlorobenzene	5.5	31
1,4-Dichlorobenzene	5.5	23
Chlorotoluene	5.5	Not Detected
1,2-Dichlorobenzene	5.5	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected
Hexachlorobutadiene	5.5	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG01N

ID#: 9512156-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121510	Date of Collection:	12/14/95
Dil. Factor:	11	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	22	Not Detected
1,3-Butadiene	22	Not Detected
Acetone	22	28
trans-1,2-Dichloroethene	22	Not Detected
Chloroprene	22	Not Detected
Cyclohexane	22	Not Detected
2-Hexanone	22	Not Detected
Bromoform	22	Not Detected
n-Octane	22	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	93	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG02N

ID#: 9512156-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121513	Date of Collection:	12/14/95
Dil. Factor:	79	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	40	Not Detected
Freon 114	40	Not Detected
Chloromethane	40	Not Detected
Vinyl Chloride	40	Not Detected
Bromomethane	40	Not Detected
Chloroethane	40	Not Detected
Freon 11	40	Not Detected
1,1-Dichloroethene	40	Not Detected
Freon 113	40	Not Detected
Methylene Chloride	40	80
1,1-Dichloroethane	40	Not Detected
cis-1,2-Dichloroethene	40	8200
Chloroform	40	Not Detected
1,1,1-Trichloroethane	40	Not Detected
Carbon Tetrachloride	40	Not Detected
Benzene	40	75
1,2-Dichloroethane	40	250
Trichloroethene	40	7500
1,2-Dichloropropane	40	Not Detected
trans-1,3-Dichloropropene	40	Not Detected
Toluene	40	61
cis-1,3-Dichloropropene	40	Not Detected
1,1,2-Trichloroethane	40	Not Detected
Tetrachloroethene	40	Not Detected
Ethylene Dibromide	40	Not Detected
Chlorobenzene	40	66
Ethyl Benzene	40	67
m,p-Xylene	40	Not Detected
o-Xylene	40	390
Styrene	40	Not Detected
1,1,2,2-Tetrachloroethane	40	Not Detected
1,3,5-Trimethylbenzene	40	390
1,2,4-Trimethylbenzene	40	Not Detected
1,3-Dichlorobenzene	40	180
1,4-Dichlorobenzene	40	1000
Chlorotoluene	40	Not Detected
1,2-Dichlorobenzene	40	290
1,2,4-Trichlorobenzene	40	Not Detected
Hexachlorobutadiene	40	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG02N

ID#: 9512156-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121513	Date of Collection:	12/14/95
Dil. Factor:	79	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	160	Not Detected
1,3-Butadiene	160	Not Detected
Acetone	160	350
trans-1,2-Dichloroethene	160	Not Detected
Chloroprene	160	Not Detected
Cyclohexane	160	Not Detected
2-Hexanone	160	Not Detected
Bromoform	160	Not Detected
n-Octane	160	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG03N

ID#: 9512156-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121509	Date of Collection:	12/14/95
Dil. Factor:	8.5	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.3	Not Detected
Freon 114	4.3	Not Detected
Chloromethane	4.3	Not Detected
Vinyl Chloride	4.3	Not Detected
Bromomethane	4.3	Not Detected
Chloroethane	4.3	Not Detected
Freon 11	4.3	Not Detected
1,1-Dichloroethene	4.3	Not Detected
Freon 113	4.3	Not Detected
Methylene Chloride	4.3	9.7
1,1-Dichloroethane	4.3	4.8
cis-1,2-Dichloroethene	4.3	470
Chloroform	4.3	Not Detected
1,1,1-Trichloroethane	4.3	Not Detected
Carbon Tetrachloride	4.3	Not Detected
Benzene	4.3	5.9
1,2-Dichloroethane	4.3	41
Trichloroethene	4.3	500
1,2-Dichloropropane	4.3	Not Detected
trans-1,3-Dichloropropene	4.3	Not Detected
Toluene	4.3	8.2
cis-1,3-Dichloropropene	4.3	Not Detected
1,1,2-Trichloroethane	4.3	Not Detected
Tetrachloroethene	4.3	Not Detected
Ethylene Dibromide	4.3	Not Detected
Chlorobenzene	4.3	Not Detected
Ethyl Benzene	4.3	Not Detected
m,p-Xylene	4.3	Not Detected
o-Xylene	4.3	25
Styrene	4.3	Not Detected
1,1,2,2-Tetrachloroethane	4.3	Not Detected
1,3,5-Trimethylbenzene	4.3	23
1,2,4-Trimethylbenzene	4.3	Not Detected
1,3-Dichlorobenzene	4.3	22
1,4-Dichlorobenzene	4.3	140
Chlorotoluene	4.3	Not Detected
1,2-Dichlorobenzene	4.3	20
1,2,4-Trichlorobenzene	4.3	Not Detected
Hexachlorobutadiene	4.3	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG03N

ID#: 9512156-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121509	Date of Collection:	12/14/95
Dil. Factor:	8.5	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	17	Not Detected
1,3-Butadiene	17	Not Detected
Acetone	17	46
trans-1,2-Dichloroethene	17	Not Detected
Chloroprene	17	Not Detected
Cyclohexane	17	Not Detected
2-Hexanone	17	Not Detected
Bromoform	17	Not Detected
n-Octane	17	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG04N

ID#: 9512156-04A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121512	Date of Collection:	12/14/95
Dil. Factor:	20	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	10	Not Detected
Freon 114	10	Not Detected
Chloromethane	10	Not Detected
Vinyl Chloride	10	Not Detected
Bromomethane	10	Not Detected
Chloroethane	10	Not Detected
Freon 11	10	Not Detected
1,1-Dichloroethene	10	Not Detected
Freon 113	10	Not Detected
Methylene Chloride	10	Not Detected
1,1-Dichloroethane	10	Not Detected
cis-1,2-Dichloroethene	10	Not Detected
Chloroform	10	Not Detected
1,1,1-Trichloroethane	10	Not Detected
Carbon Tetrachloride	10	Not Detected
Benzene	10	Not Detected
1,2-Dichloroethane	10	Not Detected
Trichloroethene	10	Not Detected
1,2-Dichloropropane	10	Not Detected
trans-1,3-Dichloropropene	10	Not Detected
Toluene	10	Not Detected
cis-1,3-Dichloropropene	10	Not Detected
1,1,2-Trichloroethane	10	Not Detected
Tetrachloroethene	10	Not Detected
Ethylene Dibromide	10	Not Detected
Chlorobenzene	10	Not Detected
Ethyl Benzene	10	Not Detected
m,p-Xylene	10	Not Detected
o-Xylene	10	Not Detected
Styrene	10	Not Detected
1,1,2,2-Tetrachloroethane	10	Not Detected
1,3,5-Trimethylbenzene	10	25
1,2,4-Trimethylbenzene	10	Not Detected
1,3-Dichlorobenzene	10	15
1,4-Dichlorobenzene	10	91
Chlorotoluene	10	Not Detected
1,2-Dichlorobenzene	10	25
1,2,4-Trichlorobenzene	10	Not Detected
Hexachlorobutadiene	10	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG04N

ID#: 9512156-04A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121512	Date of Collection:	12/14/95
Dil. Factor:	20	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	40	610
1,3-Butadiene	40	Not Detected
Acetone	40	7400 E
trans-1,2-Dichloroethene	40	Not Detected
Chloroprene	40	Not Detected
Cyclohexane	40	Not Detected
2-Hexanone	40	Not Detected
Bromoform	40	Not Detected
n-Octane	40	Not Detected

E = Exceeds instrument calibration range, but within linear range.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	93	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG05N

ID#: 9512156-05A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121514	Date of Collection:	12/14/95
Dil. Factor:	9.0	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.5	Not Detected
Freon 114	4.5	Not Detected
Chloromethane	4.5	Not Detected
Vinyl Chloride	4.5	Not Detected
Bromomethane	4.5	Not Detected
Chloroethane	4.5	Not Detected
Freon 11	4.5	Not Detected
1,1-Dichloroethene	4.5	Not Detected
Freon 113	4.5	Not Detected
Methylene Chloride	4.5	Not Detected
1,1-Dichloroethane	4.5	Not Detected
cis-1,2-Dichloroethene	4.5	240
Chloroform	4.5	Not Detected
1,1,1-Trichloroethane	4.5	Not Detected
Carbon Tetrachloride	4.5	Not Detected
Benzene	4.5	5.7
1,2-Dichloroethane	4.5	12
Trichloroethene	4.5	260
1,2-Dichloropropane	4.5	Not Detected
trans-1,3-Dichloropropene	4.5	Not Detected
Toluene	4.5	6.4
cis-1,3-Dichloropropene	4.5	Not Detected
1,1,2-Trichloroethane	4.5	Not Detected
Tetrachloroethene	4.5	Not Detected
Ethylene Dibromide	4.5	Not Detected
Chlorobenzene	4.5	Not Detected
Ethyl Benzene	4.5	Not Detected
m,p-Xylene	4.5	6.4
o-Xylene	4.5	8.7
Styrene	4.5	Not Detected
1,1,2,2-Tetrachloroethane	4.5	Not Detected
1,3,5-Trimethylbenzene	4.5	6.5
1,2,4-Trimethylbenzene	4.5	Not Detected
1,3-Dichlorobenzene	4.5	5.5
1,4-Dichlorobenzene	4.5	27
Chlorotoluene	4.5	Not Detected
1,2-Dichlorobenzene	4.5	12
1,2,4-Trichlorobenzene	4.5	Not Detected
Hexachlorobutadiene	4.5	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG05N

ID#: 9512156-05A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121514	Date of Collection:	12/14/95
Dil. Factor:	9.0	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	18	Not Detected
1,3-Butadiene	18	Not Detected
Acetone	18	230 ✓
trans-1,2-Dichloroethene	18	Not Detected
Chloroprene	18	Not Detected
Cyclohexane	18	Not Detected
2-Hexanone	18	Not Detected
Bromoform	18	Not Detected
n-Octane	18	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG05F

ID#: 9512156-06A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121515	Date of Collection:	12/14/95
Dil. Factor:	8.1	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.1	Not Detected
Freon 114	4.1	Not Detected
Chloromethane	4.1	Not Detected
Vinyl Chloride	4.1	Not Detected
Bromomethane	4.1	Not Detected
Chloroethane	4.1	Not Detected
Freon 11	4.1	Not Detected
1,1-Dichloroethene	4.1	Not Detected
Freon 113	4.1	Not Detected
Methylene Chloride	4.1	Not Detected
1,1-Dichloroethane	4.1	Not Detected
cis-1,2-Dichloroethene	4.1	360
Chloroform	4.1	Not Detected
1,1,1-Trichloroethane	4.1	Not Detected
Carbon Tetrachloride	4.1	Not Detected
Benzene	4.1	7.5
1,2-Dichloroethane	4.1	16
Trichloroethene	4.1	390
1,2-Dichloropropane	4.1	Not Detected
trans-1,3-Dichloropropene	4.1	Not Detected
Toluene	4.1	6.7
cis-1,3-Dichloropropene	4.1	Not Detected
1,1,2-Trichloroethane	4.1	Not Detected
Tetrachloroethene	4.1	Not Detected
Ethylene Dibromide	4.1	Not Detected
Chlorobenzene	4.1	Not Detected
Ethyl Benzene	4.1	Not Detected
m,p-Xylene	4.1	Not Detected
o-Xylene	4.1	9.3
Styrene	4.1	Not Detected
1,1,2,2-Tetrachloroethane	4.1	Not Detected
1,3,5-Trimethylbenzene	4.1	7.9
1,2,4-Trimethylbenzene	4.1	Not Detected
1,3-Dichlorobenzene	4.1	8.4
1,4-Dichlorobenzene	4.1	38
Chlorotoluene	4.1	Not Detected
1,2-Dichlorobenzene	4.1	13
1,2,4-Trichlorobenzene	4.1	Not Detected
Hexachlorobutadiene	4.1	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG05F

ID#: 9512156-06A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121515	Date of Collection:	12/14/95
Dil. Factor:	8.1	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	Not Detected
1,3-Butadiene	16	Not Detected
Acetone	16	59 J
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG06N

ID#: 9512156-07A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121516	Date of Collection:	12/14/95
Dil. Factor:	7.9	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.0	Not Detected
Freon 114	4.0	Not Detected
Chloromethane	4.0	Not Detected
Vinyl Chloride	4.0	Not Detected
Bromomethane	4.0	Not Detected
Chloroethane	4.0	Not Detected
Freon 11	4.0	Not Detected
1,1-Dichloroethene	4.0	Not Detected
Freon 113	4.0	Not Detected
Methylene Chloride	4.0	44
1,1-Dichloroethane	4.0	Not Detected
cis-1,2-Dichloroethene	4.0	160
Chloroform	4.0	4.1
1,1,1-Trichloroethane	4.0	Not Detected
Carbon Tetrachloride	4.0	Not Detected
Benzene	4.0	20
1,2-Dichloroethane	4.0	35
Trichloroethene	4.0	100
1,2-Dichloropropane	4.0	Not Detected
trans-1,3-Dichloropropene	4.0	Not Detected
Toluene	4.0	27
cis-1,3-Dichloropropene	4.0	Not Detected
1,1,2-Trichloroethane	4.0	Not Detected
Tetrachloroethene	4.0	Not Detected
Ethylene Dibromide	4.0	Not Detected
Chlorobenzene	4.0	4.0
Ethyl Benzene	4.0	4.7
m,p-Xylene	4.0	9.0
o-Xylene	4.0	6.9
Styrene	4.0	Not Detected
1,1,2,2-Tetrachloroethane	4.0	Not Detected
1,3,5-Trimethylbenzene	4.0	12
1,2,4-Trimethylbenzene	4.0	8.3
1,3-Dichlorobenzene	4.0	18
1,4-Dichlorobenzene	4.0	140
Chlorotoluene	4.0	Not Detected
1,2-Dichlorobenzene	4.0	17
1,2,4-Trichlorobenzene	4.0	Not Detected
Hexachlorobutadiene	4.0	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG06N

ID#: 9512156-07A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121516	Date of Collection:	12/14/95
Dil. Factor:	7.9	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	Not Detected
1,3-Butadiene	16	Not Detected
Acetone	16	65
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG07N

ID#: 9512156-08A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121522	Date of Collection:	12/14/95
Dil. Factor:	7.9	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.0	Not Detected
Freon 114	4.0	Not Detected
Chloromethane	4.0	Not Detected
Vinyl Chloride	4.0	Not Detected
Bromomethane	4.0	Not Detected
Chloroethane	4.0	Not Detected
Freon 11	4.0	Not Detected
1,1-Dichloroethene	4.0	Not Detected
Freon 113	4.0	Not Detected
Methylene Chloride	4.0	Not Detected
1,1-Dichloroethane	4.0	Not Detected
cis-1,2-Dichloroethene	4.0	Not Detected
Chloroform	4.0	Not Detected
1,1,1-Trichloroethane	4.0	Not Detected
Carbon Tetrachloride	4.0	Not Detected
Benzene	4.0	Not Detected
1,2-Dichloroethane	4.0	Not Detected
Trichloroethene	4.0	Not Detected
1,2-Dichloropropane	4.0	Not Detected
trans-1,3-Dichloropropene	4.0	Not Detected
Toluene	4.0	Not Detected
cis-1,3-Dichloropropene	4.0	Not Detected
1,1,2-Trichloroethane	4.0	Not Detected
Tetrachloroethene	4.0	Not Detected
Ethylene Dibromide	4.0	Not Detected
Chlorobenzene	4.0	Not Detected
Ethyl Benzene	4.0	Not Detected
m,p-Xylene	4.0	Not Detected
o-Xylene	4.0	Not Detected
Styrene	4.0	Not Detected
1,1,2,2-Tetrachloroethane	4.0	Not Detected
1,3,5-Trimethylbenzene	4.0	Not Detected
1,2,4-Trimethylbenzene	4.0	Not Detected
1,3-Dichlorobenzene	4.0	Not Detected
1,4-Dichlorobenzene	4.0	6.7
Chlorotoluene	4.0	Not Detected
1,2-Dichlorobenzene	4.0	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected
Hexachlorobutadiene	4.0	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG07N

ID#: 9512156-08A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121522	Date of Collection:	12/14/95
Dil. Factor:	7.9	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	Not Detected
1,3-Butadiene	16	Not Detected
Acetone	16	29
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	91	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	86	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG08N

ID#: 9512156-09A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121525	Date of Collection:	12/14/95
Dil. Factor:	8.4	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.2	Not Detected
Freon 114	4.2	Not Detected
Chloromethane	4.2	Not Detected
Vinyl Chloride	4.2	Not Detected
Bromomethane	4.2	Not Detected
Chloroethane	4.2	Not Detected
Freon 11	4.2	Not Detected
1,1-Dichloroethane	4.2	Not Detected
Freon 113	4.2	Not Detected
Methylene Chloride	4.2	50
1,1-Dichloroethane	4.2	19
cis-1,2-Dichloroethene	4.2	320
Chloroform	4.2	10
1,1,1-Trichloroethane	4.2	Not Detected
Carbon Tetrachloride	4.2	Not Detected
Benzene	4.2	22
1,2-Dichloroethane	4.2	Not Detected
Trichloroethene	4.2	750
1,2-Dichloropropane	4.2	Not Detected
trans-1,3-Dichloropropene	4.2	Not Detected
Toluene	4.2	11
cis-1,3-Dichloropropene	4.2	Not Detected
1,1,2-Trichloroethane	4.2	Not Detected
Tetrachloroethene	4.2	Not Detected
Ethylene Dibromide	4.2	Not Detected
Chlorobenzene	4.2	63
Ethyl Benzene	4.2	Not Detected
m,p-Xylene	4.2	8.0
o-Xylene	4.2	Not Detected
Styrene	4.2	Not Detected
1,1,2,2-Tetrachloroethane	4.2	Not Detected
1,3,5-Trimethylbenzene	4.2	5.1
1,2,4-Trimethylbenzene	4.2	4.2
1,3-Dichlorobenzene	4.2	7.0
1,4-Dichlorobenzene	4.2	28
Chlorotoluene	4.2	Not Detected
1,2-Dichlorobenzene	4.2	28
1,2,4-Trichlorobenzene	4.2	Not Detected
Hexachlorobutadiene	4.2	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG08N

ID#: 9512156-09A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121525	Date of Collection:	12/14/95
Dil. Factor:	8.4	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	17	Not Detected
1,3-Butadiene	17	Not Detected
Acetone	17	54
trans-1,2-Dichloroethene	17	Not Detected
Chloroprene	17	Not Detected
Cyclohexane	17	Not Detected
2-Hexanone	17	Not Detected
Bromoform	17	Not Detected
n-Octane	17	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG09N

ID#: 9512156-10A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121524	Date of Collection:	12/14/95
Dil. Factor:	7.9	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.0	Not Detected
Freon 114	4.0	Not Detected
Chloromethane	4.0	Not Detected
Vinyl Chloride	4.0	Not Detected
Bromomethane	4.0	Not Detected
Chloroethane	4.0	Not Detected
Freon 11	4.0	Not Detected
1,1-Dichloroethene	4.0	Not Detected
Freon 113	4.0	Not Detected
Methylene Chloride	4.0	6.7
1,1-Dichloroethane	4.0	Not Detected
cis-1,2-Dichloroethene	4.0	65
Chloroform	4.0	Not Detected
1,1,1-Trichloroethane	4.0	Not Detected
Carbon Tetrachloride	4.0	Not Detected
Benzene	4.0	4.7
1,2-Dichloroethane	4.0	Not Detected
Trichloroethene	4.0	83
1,2-Dichloropropane	4.0	Not Detected
trans-1,3-Dichloropropene	4.0	Not Detected
Toluene	4.0	5.6
cis-1,3-Dichloropropene	4.0	Not Detected
1,1,2-Trichloroethane	4.0	Not Detected
Tetrachloroethene	4.0	Not Detected
Ethylene Dibromide	4.0	Not Detected
Chlorobenzene	4.0	5.4
Ethyl Benzene	4.0	Not Detected
m,p-Xylene	4.0	Not Detected
o-Xylene	4.0	Not Detected
Styrene	4.0	Not Detected
1,1,2,2-Tetrachloroethane	4.0	Not Detected
1,3,5-Trimethylbenzene	4.0	Not Detected
1,2,4-Trimethylbenzene	4.0	4.0
1,3-Dichlorobenzene	4.0	Not Detected
1,4-Dichlorobenzene	4.0	6.6
Chlorotoluene	4.0	Not Detected
1,2-Dichlorobenzene	4.0	6.6
1,2,4-Trichlorobenzene	4.0	Not Detected
Hexachlorobutadiene	4.0	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG09N

ID#: 9512156-10A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121524	Date of Collection:	12/14/95
Dil. Factor:	7.9	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	Not Detected
1,3-Butadiene	16	Not Detected
Acetone	16	46
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	97	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG10N

ID#: 9512156-11A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121526	Date of Collection:	12/14/95
Dil. Factor:	7.9	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.0	Not Detected
Freon 114	4.0	Not Detected
Chloromethane	4.0	Not Detected
Vinyl Chloride	4.0	Not Detected
Bromomethane	4.0	Not Detected
Chloroethane	4.0	Not Detected
Freon 11	4.0	Not Detected
1,1-Dichloroethene	4.0	Not Detected
Freon 113	4.0	Not Detected
Methylene Chloride	4.0	Not Detected
1,1-Dichloroethane	4.0	Not Detected
cis-1,2-Dichloroethene	4.0	32
Chloroform	4.0	Not Detected
1,1,1-Trichloroethane	4.0	Not Detected
Carbon Tetrachloride	4.0	Not Detected
Benzene	4.0	Not Detected
1,2-Dichloroethane	4.0	Not Detected
Trichloroethene	4.0	38
1,2-Dichloropropane	4.0	Not Detected
trans-1,3-Dichloropropene	4.0	Not Detected
Toluene	4.0	6.3
cis-1,3-Dichloropropene	4.0	Not Detected
1,1,2-Trichloroethane	4.0	Not Detected
Tetrachloroethene	4.0	Not Detected
Ethylene Dibromide	4.0	Not Detected
Chlorobenzene	4.0	Not Detected
Ethyl Benzene	4.0	Not Detected
m,p-Xylene	4.0	Not Detected
o-Xylene	4.0	Not Detected
Styrene	4.0	Not Detected
1,1,2,2-Tetrachloroethane	4.0	Not Detected
1,3,5-Trimethylbenzene	4.0	Not Detected
1,2,4-Trimethylbenzene	4.0	Not Detected
1,3-Dichlorobenzene	4.0	Not Detected
1,4-Dichlorobenzene	4.0	Not Detected
Chlorotoluene	4.0	Not Detected
1,2-Dichlorobenzene	4.0	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected
Hexachlorobutadiene	4.0	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG10N

ID#: 9512156-11A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121526	Date of Collection:	12/14/95
Dil. Factor:	7.9	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	Not Detected
1,3-Butadiene	16	Not Detected
Acetone	16	610
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	94	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG10N Duplicate

ID#: 9512156-11B

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121527	Date of Collection:	12/14/95
Dil. Factor:	7.9	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	4.0	Not Detected
Freon 114	4.0	Not Detected
Chloromethane	4.0	Not Detected
Vinyl Chloride	4.0	Not Detected
Bromomethane	4.0	Not Detected
Chloroethane	4.0	Not Detected
Freon 11	4.0	Not Detected
1,1-Dichloroethene	4.0	Not Detected
Freon 113	4.0	Not Detected
Methylene Chloride	4.0	Not Detected
1,1-Dichloroethane	4.0	Not Detected
cis-1,2-Dichloroethene	4.0	32
Chloroform	4.0	Not Detected
1,1,1-Trichloroethane	4.0	Not Detected
Carbon Tetrachloride	4.0	Not Detected
Benzene	4.0	Not Detected
1,2-Dichloroethane	4.0	Not Detected
Trichloroethene	4.0	38
1,2-Dichloropropane	4.0	Not Detected
trans-1,3-Dichloropropene	4.0	Not Detected
Toluene	4.0	5.6
cis-1,3-Dichloropropene	4.0	Not Detected
1,1,2-Trichloroethane	4.0	Not Detected
Tetrachloroethene	4.0	Not Detected
Ethylene Dibromide	4.0	Not Detected
Chlorobenzene	4.0	Not Detected
Ethyl Benzene	4.0	Not Detected
m,p-Xylene	4.0	Not Detected
o-Xylene	4.0	Not Detected
Styrene	4.0	Not Detected
1,1,2,2-Tetrachloroethane	4.0	Not Detected
1,3,5-Trimethylbenzene	4.0	Not Detected
1,2,4-Trimethylbenzene	4.0	Not Detected
1,3-Dichlorobenzene	4.0	Not Detected
1,4-Dichlorobenzene	4.0	Not Detected
Chlorotoluene	4.0	Not Detected
1,2-Dichlorobenzene	4.0	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected
Hexachlorobutadiene	4.0	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: V-ZMS2-SG10N Duplicate

ID#: 9512156-11B

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121527	Date of Collection:	12/14/95
Dil. Factor:	7.9	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	16	Not Detected
1,3-Butadiene	16	Not Detected
Acetone	16	590
trans-1,2-Dichloroethene	16	Not Detected
Chloroprene	16	Not Detected
Cyclohexane	16	Not Detected
2-Hexanone	16	Not Detected
Bromoform	16	Not Detected
n-Octane	16	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	93	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

SAMPLE NAME: Method Spike

ID#: 9512156-12A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121502	Date of Collection: NA
Dil. Factor:	1.0	Date of Analysis: 12/15/95

Compound	Det. Limit (ppbv)	% Recovery
Freon 12	0.50	94
Freon 114	0.50	98
Chloromethane	0.50	85
Vinyl Chloride	0.50	89
Bromomethane	0.50	95
Chloroethane	0.50	88
Freon 11	0.50	93
1,1-Dichloroethene	0.50	95
Freon 113	0.50	98
Methylene Chloride	0.50	92
1,1-Dichloroethane	0.50	87
cis-1,2-Dichloroethene	0.50	96
Chloroform	0.50	99
1,1,1-Trichloroethane	0.50	96
Carbon Tetrachloride	0.50	97
Benzene	0.50	102
1,2-Dichloroethane	0.50	101
Trichloroethene	0.50	113
1,2-Dichloropropane	0.50	93
trans-1,3-Dichloropropene	0.50	87
Toluene	0.50	108
cis-1,3-Dichloropropene	0.50	97
1,1,2-Trichloroethane	0.50	105
Tetrachloroethene	0.50	116
Ethylene Dibromide	0.50	104
Chlorobenzene	0.50	106
Ethyl Benzene	0.50	97
m,p-Xylene	0.50	95
o-Xylene	0.50	101
Styrene	0.50	47 Q
1,1,2,2-Tetrachloroethane	0.50	110
1,3,5-Trimethylbenzene	0.50	101
1,2,4-Trimethylbenzene	0.50	109
1,3-Dichlorobenzene	0.50	122
1,4-Dichlorobenzene	0.50	124
Chlorotoluene	0.50	40 Q
1,2-Dichlorobenzene	0.50	124
1,2,4-Trichlorobenzene	0.50	121
Hexachlorobutadiene	0.50	112

AIR TOXICS LTD.

SAMPLE NAME: Method Spike

ID#: 9512156-12A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121502	Date of Collection: NA
Dil. Factor:	1.0	Date of Analysis: 12/15/95

Compound	Det. Limit (ppbv)	% Recovery
Propylene	2.0	68
1,3-Butadiene	2.0	74
Acetone	2.0	69
trans-1,2-Dichloroethene	2.0	91
Chloroprene	2.0	79
Cyclohexane	2.0	81
2-Hexanone	2.0	47 Q
Bromoform	2.0	80
n-Octane	2.0	79

Q = Exceeds Quality Control limits.

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9512156-13A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121504	Date of Collection: NA
Dil. Factor:	1.0	Date of Analysis: 12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	0.50	Not Detected
Freon 114	0.50	Not Detected
Chloromethane	0.50	Not Detected
Vinyl Chloride	0.50	Not Detected
Bromomethane	0.50	Not Detected
Chloroethane	0.50	Not Detected
Freon 11	0.50	Not Detected
1,1-Dichloroethene	0.50	Not Detected
Freon 113	0.50	Not Detected
Methylene Chloride	0.50	Not Detected
1,1-Dichloroethane	0.50	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected
Chloroform	0.50	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected
Carbon Tetrachloride	0.50	Not Detected
Benzene	0.50	Not Detected
1,2-Dichloroethane	0.50	Not Detected
Trichloroethene	0.50	Not Detected
1,2-Dichloropropane	0.50	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected
Toluene	0.50	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected
Tetrachloroethene	0.50	Not Detected
Ethylene Dibromide	0.50	Not Detected
Chlorobenzene	0.50	Not Detected
Ethyl Benzene	0.50	Not Detected
m,p-Xylene	0.50	Not Detected
o-Xylene	0.50	Not Detected
Styrene	0.50	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected
Chlorotoluene	0.50	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected
Hexachlorobutadiene	0.50	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9512156-13A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121504	Date of Collection:	NA
Dil. Factor:	1.0	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	2.0	Not Detected
1,3-Butadiene	2.0	Not Detected
Acetone	2.0	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected
Chloroprene	2.0	Not Detected
Cyclohexane	2.0	Not Detected
2-Hexanone	2.0	Not Detected
Bromoform	2.0	Not Detected
n-Octane	2.0	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	92	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9512156-13B

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121521	Date of Collection:	NA
Dil. Factor:	1.0	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	0.50	Not Detected
Freon 114	0.50	Not Detected
Chloromethane	0.50	Not Detected
Vinyl Chloride	0.50	Not Detected
Bromomethane	0.50	Not Detected
Chloroethane	0.50	Not Detected
Freon 11	0.50	Not Detected
1,1-Dichloroethene	0.50	Not Detected
Freon 113	0.50	Not Detected
Methylene Chloride	0.50	Not Detected
1,1-Dichloroethane	0.50	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected
Chloroform	0.50	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected
Carbon Tetrachloride	0.50	Not Detected
Benzene	0.50	Not Detected
1,2-Dichloroethane	0.50	Not Detected
Trichloroethene	0.50	Not Detected
1,2-Dichloropropane	0.50	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected
Toluene	0.50	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected
Tetrachloroethene	0.50	Not Detected
Ethylene Dibromide	0.50	Not Detected
Chlorobenzene	0.50	Not Detected
Ethyl Benzene	0.50	Not Detected
m,p-Xylene	0.50	Not Detected
o-Xylene	0.50	Not Detected
Styrene	0.50	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected
Chlorotoluene	0.50	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected
Hexachlorobutadiene	0.50	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9512156-13B

EPA METHOD TO-14 GC/MS Full Scan

File Name:	9121521	Date of Collection:	NA
Dil. Factor:	1.0	Date of Analysis:	12/15/95

Compound	Det. Limit (ppbv)	Amount (ppbv)
Propylene	2.0	Not Detected
1,3-Butadiene	2.0	Not Detected
Acetone	2.0	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected
Chloroprene	2.0	Not Detected
Cyclohexane	2.0	Not Detected
2-Hexanone	2.0	Not Detected
Bromoform	2.0	Not Detected
n-Octane	2.0	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	94	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	90	70-130