LABORATORY NARRATIVE
Modified Method TO-14A
Geofon
Workorder# 0306002

Five 1 Liter Tedlar Bag samples were received on June 02, 2003. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	*TO-14A*	*ATL Modifications*
Continuing Calibration criteria	70-130% recovery	70-130% recovery with two allowed out to 60-140%; flag and narrate outliers
Initial Calibration criteria	RSD<30%	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106

Receiving Notes

The chain of custody was not relinquished properly. The discrepancy was noted in the Login email.

Analytical Notes

Samples VE04-A-001-011, VE04-B-001-012, VE04-C-001-013, VE04-INN-001-014, VE04-INN-001-014 Duplicate and VE04-EFF-001-015 were transferred from Tedlar bags into summa canisters to extend the hold time from 72 hours to 14 days. Canister pressurization resulted in a dilution factor which was applied to all analytical results.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

SAMPLE NAME: VE04-A-001-011

ID#: 0306002-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d060411	Date of Collection:	5/30/03
Dil. Factor:	8.52	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	4.3	21	250	1300
Freon 114	4.3	30	Not Detected	Not Detected
Chloromethane	4.3	8.9	Not Detected	Not Detected
Vinyl Chloride	4.3	11	Not Detected	Not Detected
Bromomethane	4.3	17	Not Detected	Not Detected
Chloroethane	4.3	11	Not Detected	Not Detected
Freon 11	4.3	24	Not Detected	Not Detected
1,1-Dichloroethene	4.3	17	Not Detected	Not Detected
Freon 113	4.3	33	19	140
Methylene Chloride	4.3	15	Not Detected	Not Detected
1,1-Dichloroethane	4.3	18	Not Detected	Not Detected
cis-1,2-Dichloroethene	4.3	17	Not Detected	Not Detected
Chloroform	4.3	21	13	66
1,1,1-Trichloroethane	4.3	24	Not Detected	Not Detected
Carbon Tetrachloride	4.3	27	9.6	62
Benzene	4.3	14	Not Detected	Not Detected
1,2-Dichloroethane	4.3	18	Not Detected	Not Detected
Trichloroethene	4.3	23	55	300
1,2-Dichloropropane	4.3	20	Not Detected	Not Detected
cis-1,3-Dichloropropene	4.3	20	Not Detected	Not Detected
Toluene	4.3	16	Not Detected	Not Detected
trans-1,3-Dichloropropene	4.3	20	Not Detected	Not Detected
1,1,2-Trichloroethane	4.3	24	Not Detected	Not Detected
Tetrachloroethene	4.3	29	4.9	34
1,2-Dibromoethane (EDB)	4.3	33	Not Detected	Not Detected
Chlorobenzene	4.3	20	Not Detected	Not Detected
Ethyl Benzene	4.3	19	Not Detected	Not Detected
m,p-Xylene	4.3	19	Not Detected	Not Detected
o-Xylene	4.3	19	Not Detected	Not Detected
Styrene	4.3	18	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	4.3	30	Not Detected	Not Detected
1,3,5-Trimethylbenzene	4.3	21	Not Detected	Not Detected
1,2,4-Trimethylbenzene	4.3	21	Not Detected	Not Detected
1,3-Dichlorobenzene	4.3	26	Not Detected	Not Detected
1,4-Dichlorobenzene	4.3	26	Not Detected	Not Detected
alpha-Chlorotoluene	4.3	22	Not Detected	Not Detected
1,2-Dichlorobenzene	4.3	26	Not Detected	Not Detected
1,2,4-Trichlorobenzene	17	130	Not Detected	Not Detected
Hexachlorobutadiene	17	180	Not Detected	Not Detected
Propylene	17	30	1000	1800
1,3-Butadiene	17	38	Not Detected	Not Detected
Acetone	17	41	1200	3000

AIR TOXICS LTD.

SAMPLE NAME: VE04-A-001-011

ID#: 0306002-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d060411**	**Date of Collection:**	**5/30/03**
Dil. Factor:	**8.52**	**Date of Analysis:**	**6/4/03**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	17	54	Not Detected	Not Detected
2-Propanol	17	42	170	440
trans-1,2-Dichloroethene	17	69	Not Detected	Not Detected
Vinyl Acetate	17	61	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	17	51	390	1200
Hexane	17	61	Not Detected	Not Detected
Tetrahydrofuran	17	51	Not Detected	Not Detected
Cyclohexane	17	60	Not Detected	Not Detected
1,4-Dioxane	17	62	Not Detected	Not Detected
Bromodichloromethane	17	120	Not Detected	Not Detected
4-Methyl-2-pentanone	17	71	Not Detected	Not Detected
2-Hexanone	17	71	Not Detected	Not Detected
Dibromochloromethane	17	150	Not Detected	Not Detected
Bromoform	17	180	Not Detected	Not Detected
4-Ethyltoluene	17	85	Not Detected	Not Detected
Ethanol	17	33	65	120
Methyl tert-butyl ether	17	62	Not Detected	Not Detected
Heptane	17	71	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-B-001-012

ID#: 0306002-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d060412	Date of Collection:	5/30/03
Dil. Factor:	10.6	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	5.3	27	38	190
Freon 114	5.3	38	Not Detected	Not Detected
Chloromethane	5.3	11	Not Detected	Not Detected
Vinyl Chloride	5.3	14	Not Detected	Not Detected
Bromomethane	5.3	21	Not Detected	Not Detected
Chloroethane	5.3	14	Not Detected	Not Detected
Freon 11	5.3	30	Not Detected	Not Detected
1,1-Dichloroethene	5.3	21	27	110
Freon 113	5.3	41	210	1600
Methylene Chloride	5.3	19	Not Detected	Not Detected
1,1-Dichloroethane	5.3	22	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.3	21	Not Detected	Not Detected
Chloroform	5.3	26	75	370
1,1,1-Trichloroethane	5.3	29	13	74
Carbon Tetrachloride	5.3	34	120	740
Benzene	5.3	17	Not Detected	Not Detected
1,2-Dichloroethane	5.3	22	Not Detected	Not Detected
Trichloroethene	5.3	29	860	4700
1,2-Dichloropropane	5.3	25	Not Detected	Not Detected
cis-1,3-Dichloropropene	5.3	24	Not Detected	Not Detected
Toluene	5.3	20	Not Detected	Not Detected
trans-1,3-Dichloropropene	5.3	24	Not Detected	Not Detected
1,1,2-Trichloroethane	5.3	29	Not Detected	Not Detected
Tetrachloroethene	5.3	36	28	200
1,2-Dibromoethane (EDB)	5.3	41	Not Detected	Not Detected
Chlorobenzene	5.3	25	Not Detected	Not Detected
Ethyl Benzene	5.3	23	Not Detected	Not Detected
m,p-Xylene	5.3	23	Not Detected	Not Detected
o-Xylene	5.3	23	Not Detected	Not Detected
Styrene	5.3	23	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	5.3	37	Not Detected	Not Detected
1,3,5-Trimethylbenzene	5.3	26	Not Detected	Not Detected
1,2,4-Trimethylbenzene	5.3	26	Not Detected	Not Detected
1,3-Dichlorobenzene	5.3	32	Not Detected	Not Detected
1,4-Dichlorobenzene	5.3	32	Not Detected	Not Detected
alpha-Chlorotoluene	5.3	28	Not Detected	Not Detected
1,2-Dichlorobenzene	5.3	32	Not Detected	Not Detected
1,2,4-Trichlorobenzene	21	160	Not Detected	Not Detected
Hexachlorobutadiene	21	230	Not Detected	Not Detected
Propylene	21	37	1600	2800
1,3-Butadiene	21	48	Not Detected	Not Detected
Acetone	21	51	1500	3600

AIR TOXICS LTD.

SAMPLE NAME: VE04-B-001-012

ID#: 0306002-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d060412**	**Date of Collection:**	**5/30/03**
Dil. Factor:	**10.6**	**Date of Analysis:**	**6/4/03**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	21	67	Not Detected	Not Detected
2-Propanol	21	53	230	580
trans-1,2-Dichloroethene	21	85	Not Detected	Not Detected
Vinyl Acetate	21	76	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	21	64	480	1400
Hexane	21	76	Not Detected	Not Detected
Tetrahydrofuran	21	64	43	130
Cyclohexane	21	74	Not Detected	Not Detected
1,4-Dioxane	21	78	Not Detected	Not Detected
Bromodichloromethane	21	140	Not Detected	Not Detected
4-Methyl-2-pentanone	21	88	Not Detected	Not Detected
2-Hexanone	21	88	Not Detected	Not Detected
Dibromochloromethane	21	180	Not Detected	Not Detected
Bromoform	21	220	Not Detected	Not Detected
4-Ethyltoluene	21	100	Not Detected	Not Detected
Ethanol	21	41	70	130
Methyl tert-butyl ether	21	78	Not Detected	Not Detected
Heptane	21	88	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-C-001-013

ID#: 0306002-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d060413	Date of Collection:	5/30/03
Dil. Factor:	13.9	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	7.0	35	130	630
Freon 114	7.0	49	Not Detected	Not Detected
Chloromethane	7.0	14	Not Detected	Not Detected
Vinyl Chloride	7.0	18	Not Detected	Not Detected
Bromomethane	7.0	27	Not Detected	Not Detected
Chloroethane	7.0	19	15	39
Freon 11	7.0	40	Not Detected	Not Detected
1,1-Dichloroethene	7.0	28	Not Detected	Not Detected
Freon 113	7.0	54	40	310
Methylene Chloride	7.0	24	Not Detected	Not Detected
1,1-Dichloroethane	7.0	28	Not Detected	Not Detected
cis-1,2-Dichloroethene	7.0	28	Not Detected	Not Detected
Chloroform	7.0	34	25	120
1,1,1-Trichloroethane	7.0	38	Not Detected	Not Detected
Carbon Tetrachloride	7.0	44	30	190
Benzene	7.0	22	Not Detected	Not Detected
1,2-Dichloroethane	7.0	28	Not Detected	Not Detected
Trichloroethene	7.0	38	260	1400
1,2-Dichloropropane	7.0	33	Not Detected	Not Detected
cis-1,3-Dichloropropene	7.0	32	Not Detected	Not Detected
Toluene	7.0	27	Not Detected	Not Detected
trans-1,3-Dichloropropene	7.0	32	Not Detected	Not Detected
1,1,2-Trichloroethane	7.0	38	Not Detected	Not Detected
Tetrachloroethene	7.0	48	11	79
1,2-Dibromoethane (EDB)	7.0	54	Not Detected	Not Detected
Chlorobenzene	7.0	32	Not Detected	Not Detected
Ethyl Benzene	7.0	31	Not Detected	Not Detected
m,p-Xylene	7.0	31	Not Detected	Not Detected
o-Xylene	7.0	31	Not Detected	Not Detected
Styrene	7.0	30	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	7.0	48	Not Detected	Not Detected
1,3,5-Trimethylbenzene	7.0	35	Not Detected	Not Detected
1,2,4-Trimethylbenzene	7.0	35	Not Detected	Not Detected
1,3-Dichlorobenzene	7.0	42	Not Detected	Not Detected
1,4-Dichlorobenzene	7.0	42	Not Detected	Not Detected
alpha-Chlorotoluene	7.0	36	Not Detected	Not Detected
1,2-Dichlorobenzene	7.0	42	Not Detected	Not Detected
1,2,4-Trichlorobenzene	28	210	Not Detected	Not Detected
Hexachlorobutadiene	28	300	Not Detected	Not Detected
Propylene	28	49	900	1600
1,3-Butadiene	28	62	14	30
Acetone	28	67	1600	3900

AIR TOXICS LTD.

SAMPLE NAME: VE04-C-001-013

ID#: 0306002-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d060413**	**Date of Collection:**	**5/30/03**
Dil. Factor:	**13.9**	**Date of Analysis:**	**6/4/03**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	28	88	Not Detected	Not Detected
2-Propanol	28	69	240	610
trans-1,2-Dichloroethene	28	110	Not Detected	Not Detected
Vinyl Acetate	28	99	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	28	83	650	1900
Hexane	28	100	Not Detected	Not Detected
Tetrahydrofuran	28	83	420	1200
Cyclohexane	28	97	Not Detected	Not Detected
1,4-Dioxane	28	100	Not Detected	Not Detected
Bromodichloromethane	28	190	Not Detected	Not Detected
4-Methyl-2-pentanone	28	120	Not Detected	Not Detected
2-Hexanone	28	120	Not Detected	Not Detected
Dibromochloromethane	28	240	Not Detected	Not Detected
Bromoform	28	290	Not Detected	Not Detected
4-Ethyltoluene	28	140	Not Detected	Not Detected
Ethanol	28	53	73	140
Methyl tert-butyl ether	28	100	Not Detected	Not Detected
Heptane	28	120	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-001-014

ID#: 0306002-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d060414	Date of Collection:	5/30/03
Dil. Factor:	4.10	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	2.0	10	190	940
Freon 114	2.0	14	Not Detected	Not Detected
Chloromethane	2.0	4.3	Not Detected	Not Detected
Vinyl Chloride	2.0	5.3	Not Detected	Not Detected
Bromomethane	2.0	8.1	Not Detected	Not Detected
Chloroethane	2.0	5.5	Not Detected	Not Detected
Freon 11	2.0	12	Not Detected	Not Detected
1,1-Dichloroethene	2.0	8.3	11	43
Freon 113	2.0	16	82	640
Methylene Chloride	2.0	7.2	Not Detected	Not Detected
1,1-Dichloroethane	2.0	8.4	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	8.3	Not Detected	Not Detected
Chloroform	2.0	10	35	170
1,1,1-Trichloroethane	2.0	11	6.8	38
Carbon Tetrachloride	2.0	13	46	290
Benzene	2.0	6.6	Not Detected	Not Detected
1,2-Dichloroethane	2.0	8.4	Not Detected	Not Detected
Trichloroethene	2.0	11	380	2100
1,2-Dichloropropane	2.0	9.6	Not Detected	Not Detected
cis-1,3-Dichloropropene	2.0	9.4	Not Detected	Not Detected
Toluene	2.0	7.8	Not Detected	Not Detected
trans-1,3-Dichloropropene	2.0	9.4	Not Detected	Not Detected
1,1,2-Trichloroethane	2.0	11	Not Detected	Not Detected
Tetrachloroethene	2.0	14	19	130
1,2-Dibromoethane (EDB)	2.0	16	Not Detected	Not Detected
Chlorobenzene	2.0	9.6	Not Detected	Not Detected
Ethyl Benzene	2.0	9.0	Not Detected	Not Detected
m,p-Xylene	2.0	9.0	Not Detected	Not Detected
o-Xylene	2.0	9.0	Not Detected	Not Detected
Styrene	2.0	8.9	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	2.0	14	Not Detected	Not Detected
1,3,5-Trimethylbenzene	2.0	10	Not Detected	Not Detected
1,2,4-Trimethylbenzene	2.0	10	Not Detected	Not Detected
1,3-Dichlorobenzene	2.0	12	Not Detected	Not Detected
1,4-Dichlorobenzene	2.0	12	Not Detected	Not Detected
alpha-Chlorotoluene	2.0	11	Not Detected	Not Detected
1,2-Dichlorobenzene	2.0	12	Not Detected	Not Detected
1,2,4-Trichlorobenzene	8.2	62	Not Detected	Not Detected
Hexachlorobutadiene	8.2	89	Not Detected	Not Detected
Propylene	8.2	14	170	300
1,3-Butadiene	8.2	18	Not Detected	Not Detected
Acetone	8.2	20	460	1100

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-001-014

ID#: 0306002-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d060414**	**Date of Collection:**	**5/30/03**
Dil. Factor:	**4.10**	**Date of Analysis:**	**6/4/03**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	8.2	26	Not Detected	Not Detected
2-Propanol	8.2	20	60	150
trans-1,2-Dichloroethene	8.2	33	Not Detected	Not Detected
Vinyl Acetate	8.2	29	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.2	24	150	450
Hexane	8.2	29	Not Detected	Not Detected
Tetrahydrofuran	8.2	24	12	37
Cyclohexane	8.2	29	Not Detected	Not Detected
1,4-Dioxane	8.2	30	Not Detected	Not Detected
Bromodichloromethane	8.2	56	Not Detected	Not Detected
4-Methyl-2-pentanone	8.2	34	Not Detected	Not Detected
2-Hexanone	8.2	34	Not Detected	Not Detected
Dibromochloromethane	8.2	71	Not Detected	Not Detected
Bromoform	8.2	86	Not Detected	Not Detected
4-Ethyltoluene	8.2	41	Not Detected	Not Detected
Ethanol	8.2	16	19	36
Methyl tert-butyl ether	8.2	30	Not Detected	Not Detected
Heptane	8.2	34	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-001-014 Duplicate

ID#: 0306002-04AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d060415	Date of Collection:	5/30/03
Dil. Factor:	4.10	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	2.0	10	190	940
Freon 114	2.0	14	Not Detected	Not Detected
Chloromethane	2.0	4.3	Not Detected	Not Detected
Vinyl Chloride	2.0	5.3	Not Detected	Not Detected
Bromomethane	2.0	8.1	Not Detected	Not Detected
Chloroethane	2.0	5.5	Not Detected	Not Detected
Freon 11	2.0	12	Not Detected	Not Detected
1,1-Dichloroethene	2.0	8.3	11	44
Freon 113	2.0	16	80	620
Methylene Chloride	2.0	7.2	Not Detected	Not Detected
1,1-Dichloroethane	2.0	8.4	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	8.3	Not Detected	Not Detected
Chloroform	2.0	10	34	170
1,1,1-Trichloroethane	2.0	11	7.0	38
Carbon Tetrachloride	2.0	13	46	290
Benzene	2.0	6.6	Not Detected	Not Detected
1,2-Dichloroethane	2.0	8.4	Not Detected	Not Detected
Trichloroethene	2.0	11	380	2100
1,2-Dichloropropane	2.0	9.6	Not Detected	Not Detected
cis-1,3-Dichloropropene	2.0	9.4	Not Detected	Not Detected
Toluene	2.0	7.8	Not Detected	Not Detected
trans-1,3-Dichloropropene	2.0	9.4	Not Detected	Not Detected
1,1,2-Trichloroethane	2.0	11	Not Detected	Not Detected
Tetrachloroethene	2.0	14	19	130
1,2-Dibromoethane (EDB)	2.0	16	Not Detected	Not Detected
Chlorobenzene	2.0	9.6	Not Detected	Not Detected
Ethyl Benzene	2.0	9.0	Not Detected	Not Detected
m,p-Xylene	2.0	9.0	Not Detected	Not Detected
o-Xylene	2.0	9.0	Not Detected	Not Detected
Styrene	2.0	8.9	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	2.0	14	Not Detected	Not Detected
1,3,5-Trimethylbenzene	2.0	10	Not Detected	Not Detected
1,2,4-Trimethylbenzene	2.0	10	Not Detected	Not Detected
1,3-Dichlorobenzene	2.0	12	Not Detected	Not Detected
1,4-Dichlorobenzene	2.0	12	Not Detected	Not Detected
alpha-Chlorotoluene	2.0	11	Not Detected	Not Detected
1,2-Dichlorobenzene	2.0	12	Not Detected	Not Detected
1,2,4-Trichlorobenzene	8.2	62	Not Detected	Not Detected
Hexachlorobutadiene	8.2	89	Not Detected	Not Detected
Propylene	8.2	14	170	300
1,3-Butadiene	8.2	18	Not Detected	Not Detected
Acetone	8.2	20	460	1100

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-001-014 Duplicate

ID#: 0306002-04AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d060415	Date of Collection:	5/30/03
Dil. Factor:	4.10	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	8.2	26	Not Detected	Not Detected
2-Propanol	8.2	20	60	150
trans-1,2-Dichloroethene	8.2	33	Not Detected	Not Detected
Vinyl Acetate	8.2	29	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.2	24	150	450
Hexane	8.2	29	Not Detected	Not Detected
Tetrahydrofuran	8.2	24	12	37
Cyclohexane	8.2	29	Not Detected	Not Detected
1,4-Dioxane	8.2	30	Not Detected	Not Detected
Bromodichloromethane	8.2	56	Not Detected	Not Detected
4-Methyl-2-pentanone	8.2	34	Not Detected	Not Detected
2-Hexanone	8.2	34	Not Detected	Not Detected
Dibromochloromethane	8.2	71	Not Detected	Not Detected
Bromoform	8.2	86	Not Detected	Not Detected
4-Ethyltoluene	8.2	41	Not Detected	Not Detected
Ethanol	8.2	16	19	36
Methyl tert-butyl ether	8.2	30	Not Detected	Not Detected
Heptane	8.2	34	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-EFF-001-015

ID#: 0306002-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d061013**	**Date of Collection:**	**5/30/03**
Dil. Factor:	**2.09**	**Date of Analysis:**	**6/10/03**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	1.0	5.2	160	820
Freon 114	1.0	7.4	Not Detected	Not Detected
Chloromethane	1.0	2.2	Not Detected	Not Detected
Vinyl Chloride	1.0	2.7	Not Detected	Not Detected
Bromomethane	1.0	4.1	Not Detected	Not Detected
Chloroethane	1.0	2.8	Not Detected	Not Detected
Freon 11	1.0	6.0	32	180
1,1-Dichloroethene	1.0	4.2	Not Detected	Not Detected
Freon 113	1.0	8.1	12	95
Methylene Chloride	1.0	3.7	2.3	8.2
1,1-Dichloroethane	1.0	4.3	Not Detected	Not Detected
cis-1,2-Dichloroethene	1.0	4.2	Not Detected	Not Detected
Chloroform	1.0	5.2	Not Detected	Not Detected
1,1,1-Trichloroethane	1.0	5.8	Not Detected	Not Detected
Carbon Tetrachloride	1.0	6.7	Not Detected	Not Detected
Benzene	1.0	3.4	Not Detected	Not Detected
1,2-Dichloroethane	1.0	4.3	Not Detected	Not Detected
Trichloroethene	1.0	5.7	Not Detected	Not Detected
1,2-Dichloropropane	1.0	4.9	Not Detected	Not Detected
cis-1,3-Dichloropropene	1.0	4.8	Not Detected	Not Detected
Toluene	1.0	4.0	1.8	6.8
trans-1,3-Dichloropropene	1.0	4.8	Not Detected	Not Detected
1,1,2-Trichloroethane	1.0	5.8	Not Detected	Not Detected
Tetrachloroethene	1.0	7.2	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	1.0	8.2	Not Detected	Not Detected
Chlorobenzene	1.0	4.9	Not Detected	Not Detected
Ethyl Benzene	1.0	4.6	Not Detected	Not Detected
m,p-Xylene	1.0	4.6	Not Detected	Not Detected
o-Xylene	1.0	4.6	Not Detected	Not Detected
Styrene	1.0	4.5	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1.0	7.3	Not Detected	Not Detected
1,3,5-Trimethylbenzene	1.0	5.2	Not Detected	Not Detected
1,2,4-Trimethylbenzene	1.0	5.2	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	6.4	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	6.4	Not Detected	Not Detected
alpha-Chlorotoluene	1.0	5.5	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	6.4	Not Detected	Not Detected
1,2,4-Trichlorobenzene	4.2	32	Not Detected	Not Detected
Hexachlorobutadiene	4.2	45	Not Detected	Not Detected
Propylene	4.2	7.3	Not Detected	Not Detected
1,3-Butadiene	4.2	9.4	Not Detected	Not Detected
Acetone	4.2	10	67	160

AIR TOXICS LTD.

SAMPLE NAME: VE04-EFF-001-015

ID#: 0306002-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d061013**	**Date of Collection:**	**5/30/03**
Dil. Factor:	**2.09**	**Date of Analysis:**	**6/10/03**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	4.2	13	Not Detected	Not Detected
2-Propanol	4.2	10	23	58
trans-1,2-Dichloroethene	4.2	17	Not Detected	Not Detected
Vinyl Acetate	4.2	15	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	12	27	82
Hexane	4.2	15	Not Detected	Not Detected
Tetrahydrofuran	4.2	12	5.2	16
Cyclohexane	4.2	15	Not Detected	Not Detected
1,4-Dioxane	4.2	15	Not Detected	Not Detected
Bromodichloromethane	4.2	28	Not Detected	Not Detected
4-Methyl-2-pentanone	4.2	17	Not Detected	Not Detected
2-Hexanone	4.2	17	Not Detected	Not Detected
Dibromochloromethane	4.2	36	Not Detected	Not Detected
Bromoform	4.2	44	Not Detected	Not Detected
4-Ethyltoluene	4.2	21	Not Detected	Not Detected
Ethanol	4.2	8.0	6.4	12
Methyl tert-butyl ether	4.2	15	Not Detected	Not Detected
Heptane	4.2	17	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0306002-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d060407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/03**	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.50	2.5	Not Detected	Not Detected
Freon 114	0.50	3.6	Not Detected	Not Detected
Chloromethane	0.50	1.0	Not Detected	Not Detected
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
Bromomethane	0.50	2.0	Not Detected	Not Detected
Chloroethane	0.50	1.3	Not Detected	Not Detected
Freon 11	0.50	2.8	Not Detected	Not Detected
1,1-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Freon 113	0.50	3.9	Not Detected	Not Detected
Methylene Chloride	0.50	1.8	Not Detected	Not Detected
1,1-Dichloroethane	0.50	2.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Chloroform	0.50	2.5	Not Detected	Not Detected
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Carbon Tetrachloride	0.50	3.2	Not Detected	Not Detected
Benzene	0.50	1.6	Not Detected	Not Detected
1,2-Dichloroethane	0.50	2.0	Not Detected	Not Detected
Trichloroethene	0.50	2.7	Not Detected	Not Detected
1,2-Dichloropropane	0.50	2.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
1,1,2-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Tetrachloroethene	0.50	3.4	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.50	3.9	Not Detected	Not Detected
Chlorobenzene	0.50	2.3	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Styrene	0.50	2.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.50	3.5	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,4-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	Not Detected	Not Detected
Propylene	2.0	3.5	Not Detected	Not Detected
1,3-Butadiene	2.0	4.5	Not Detected	Not Detected
Acetone	2.0	4.8	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0306002-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d060407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/03**	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.0	6.3	Not Detected	Not Detected
2-Propanol	2.0	5.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	8.0	Not Detected	Not Detected
Vinyl Acetate	2.0	7.2	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	Not Detected	Not Detected
Hexane	2.0	7.2	Not Detected	Not Detected
Tetrahydrofuran	2.0	6.0	Not Detected	Not Detected
Cyclohexane	2.0	7.0	Not Detected	Not Detected
1,4-Dioxane	2.0	7.3	Not Detected	Not Detected
Bromodichloromethane	2.0	14	Not Detected	Not Detected
4-Methyl-2-pentanone	2.0	8.3	Not Detected	Not Detected
2-Hexanone	2.0	8.3	Not Detected	Not Detected
Dibromochloromethane	2.0	17	Not Detected	Not Detected
Bromoform	2.0	21	Not Detected	Not Detected
4-Ethyltoluene	2.0	10	Not Detected	Not Detected
Ethanol	2.0	3.8	Not Detected	Not Detected
Methyl tert-butyl ether	2.0	7.3	Not Detected	Not Detected
Heptane	2.0	8.3	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0306002-06B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d061005**	**Date of Collection:**	**NA**
Dil. Factor:	**1.00**	**Date of Analysis:**	**6/10/03**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.50	2.5	Not Detected	Not Detected
Freon 114	0.50	3.6	Not Detected	Not Detected
Chloromethane	0.50	1.0	Not Detected	Not Detected
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
Bromomethane	0.50	2.0	Not Detected	Not Detected
Chloroethane	0.50	1.3	Not Detected	Not Detected
Freon 11	0.50	2.8	Not Detected	Not Detected
1,1-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Freon 113	0.50	3.9	Not Detected	Not Detected
Methylene Chloride	0.50	1.8	Not Detected	Not Detected
1,1-Dichloroethane	0.50	2.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Chloroform	0.50	2.5	Not Detected	Not Detected
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Carbon Tetrachloride	0.50	3.2	Not Detected	Not Detected
Benzene	0.50	1.6	Not Detected	Not Detected
1,2-Dichloroethane	0.50	2.0	Not Detected	Not Detected
Trichloroethene	0.50	2.7	Not Detected	Not Detected
1,2-Dichloropropane	0.50	2.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
1,1,2-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Tetrachloroethene	0.50	3.4	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.50	3.9	Not Detected	Not Detected
Chlorobenzene	0.50	2.3	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Styrene	0.50	2.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.50	3.5	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,4-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	Not Detected	Not Detected
Propylene	2.0	3.5	Not Detected	Not Detected
1,3-Butadiene	2.0	4.5	Not Detected	Not Detected
Acetone	2.0	4.8	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0306002-06B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d061005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/03**	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.0	6.3	Not Detected	Not Detected
2-Propanol	2.0	5.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	8.0	Not Detected	Not Detected
Vinyl Acetate	2.0	7.2	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	Not Detected	Not Detected
Hexane	2.0	7.2	Not Detected	Not Detected
Tetrahydrofuran	2.0	6.0	Not Detected	Not Detected
Cyclohexane	2.0	7.0	Not Detected	Not Detected
1,4-Dioxane	2.0	7.3	Not Detected	Not Detected
Bromodichloromethane	2.0	14	Not Detected	Not Detected
4-Methyl-2-pentanone	2.0	8.3	Not Detected	Not Detected
2-Hexanone	2.0	8.3	Not Detected	Not Detected
Dibromochloromethane	2.0	17	Not Detected	Not Detected
Bromoform	2.0	21	Not Detected	Not Detected
4-Ethyltoluene	2.0	10	Not Detected	Not Detected
Ethanol	2.0	3.8	Not Detected	Not Detected
Methyl tert-butyl ether	2.0	7.3	Not Detected	Not Detected
Heptane	2.0	8.3	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0306002-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d060403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/03**	

Compound	%Recovery
Freon 12	93
Freon 114	111
Chloromethane	85
Vinyl Chloride	92
Bromomethane	101
Chloroethane	106
Freon 11	93
1,1-Dichloroethene	92
Freon 113	94
Methylene Chloride	91
1,1-Dichloroethane	98
cis-1,2-Dichloroethene	95
Chloroform	90
1,1,1-Trichloroethane	96
Carbon Tetrachloride	100
Benzene	89
1,2-Dichloroethane	91
Trichloroethene	92
1,2-Dichloropropane	92
cis-1,3-Dichloropropene	94
Toluene	90
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	90
Tetrachloroethene	93
1,2-Dibromoethane (EDB)	94
Chlorobenzene	92
Ethyl Benzene	90
m,p-Xylene	92
o-Xylene	93
Styrene	95
1,1,2,2-Tetrachloroethane	92
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	84
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	92
Propylene	94
1,3-Butadiene	95
Acetone	98

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0306002-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d060403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/03**	

Compound	%Recovery
Carbon Disulfide	98
2-Propanol	101
trans-1,2-Dichloroethene	98
Vinyl Acetate	104
2-Butanone (Methyl Ethyl Ketone)	100
Hexane	94
Tetrahydrofuran	97
Cyclohexane	94
1,4-Dioxane	93
Bromodichloromethane	96
4-Methyl-2-pentanone	98
2-Hexanone	100
Dibromochloromethane	101
Bromoform	100
4-Ethyltoluene	95
Ethanol	108
Methyl tert-butyl ether	104
Heptane	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0306002-07B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d061002	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/10/03	

Compound	%Recovery
Freon 12	102
Freon 114	114
Chloromethane	96
Vinyl Chloride	95
Bromomethane	94
Chloroethane	120
Freon 11	100
1,1-Dichloroethene	95
Freon 113	97
Methylene Chloride	94
1,1-Dichloroethane	102
cis-1,2-Dichloroethene	100
Chloroform	96
1,1,1-Trichloroethane	102
Carbon Tetrachloride	106
Benzene	93
1,2-Dichloroethane	97
Trichloroethene	96
1,2-Dichloropropane	94
cis-1,3-Dichloropropene	96
Toluene	92
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	96
Tetrachloroethene	100
1,2-Dibromoethane (EDB)	97
Chlorobenzene	94
Ethyl Benzene	94
m,p-Xylene	97
o-Xylene	98
Styrene	95
1,1,2,2-Tetrachloroethane	96
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	87
1,4-Dichlorobenzene	84
alpha-Chlorotoluene	88
1,2-Dichlorobenzene	83
1,2,4-Trichlorobenzene	77
Hexachlorobutadiene	88
Propylene	99
1,3-Butadiene	98
Acetone	101

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0306002-07B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d061002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/03**	

Compound	%Recovery
Carbon Disulfide	100
2-Propanol	103
trans-1,2-Dichloroethene	102
Vinyl Acetate	110
2-Butanone (Methyl Ethyl Ketone)	104
Hexane	95
Tetrahydrofuran	100
Cyclohexane	99
1,4-Dioxane	97
Bromodichloromethane	101
4-Methyl-2-pentanone	101
2-Hexanone	104
Dibromochloromethane	105
Bromoform	101
4-Ethyltoluene	98
Ethanol	105
Methyl tert-butyl ether	103
Heptane	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0306002-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d060404	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/4/03	

Compound	%Recovery
Freon 12	102
Freon 114	120
Chloromethane	91
Vinyl Chloride	102
Bromomethane	108
Chloroethane	111
Freon 11	93
1,1-Dichloroethene	90
Freon 113	92
Methylene Chloride	90
1,1-Dichloroethane	87
cis-1,2-Dichloroethene	96
Chloroform	89
1,1,1-Trichloroethane	92
Carbon Tetrachloride	102
Benzene	96
1,2-Dichloroethane	94
Trichloroethene	99
1,2-Dichloropropane	92
cis-1,3-Dichloropropene	109
Toluene	94
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	94
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	91
Chlorobenzene	97
Ethyl Benzene	94
m,p-Xylene	92
o-Xylene	90
Styrene	113
1,1,2,2-Tetrachloroethane	93
1,3,5-Trimethylbenzene	86
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	83
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	84
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	97
Propylene	96
1,3-Butadiene	101
Acetone	73

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0306002-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d060404	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/4/03	

Compound	%Recovery
Carbon Disulfide	78
2-Propanol	78
trans-1,2-Dichloroethene	82
Vinyl Acetate	77
2-Butanone (Methyl Ethyl Ketone)	76
Hexane	72
Tetrahydrofuran	75
Cyclohexane	70
1,4-Dioxane	76
Bromodichloromethane	69
4-Methyl-2-pentanone	72
2-Hexanone	73
Dibromochloromethane	74
Bromoform	60
4-Ethyltoluene	86
Ethanol	82
Methyl tert-butyl ether	72
Heptane	68

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0306002-08AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**d060405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/03**	

Compound	%Recovery
Freon 12	105
Freon 114	119
Chloromethane	95
Vinyl Chloride	104
Bromomethane	115
Chloroethane	114
Freon 11	94
1,1-Dichloroethene	90
Freon 113	92
Methylene Chloride	90
1,1-Dichloroethane	88
cis-1,2-Dichloroethene	96
Chloroform	89
1,1,1-Trichloroethane	94
Carbon Tetrachloride	103
Benzene	98
1,2-Dichloroethane	98
Trichloroethene	102
1,2-Dichloropropane	96
cis-1,3-Dichloropropene	111
Toluene	97
trans-1,3-Dichloropropene	112
1,1,2-Trichloroethane	95
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	90
Chlorobenzene	97
Ethyl Benzene	94
m,p-Xylene	92
o-Xylene	91
Styrene	113
1,1,2,2-Tetrachloroethane	93
1,3,5-Trimethylbenzene	86
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	84
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	98
Propylene	98
1,3-Butadiene	100
Acetone	75