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
Carbon Disulfide	78
2-Propanol	78
trans-1,2-Dichloroethene	82
Vinyl Acetate	77
2-Butanone (Methyl Ethyl Ketone)	76
Hexane	71
Tetrahydrofuran	74
Cyclohexane	71
1,4-Dioxane	79
Bromodichloromethane	71
4-Methyl-2-pentanone	74
2-Hexanone	74
Dibromochloromethane	74
Bromoform	60
4-Ethyltoluene	86
Ethanol	82
Methyl tert-butyl ether	73
Heptane	69

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0306002-08B

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

File Name:	d061003	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/10/03	

Compound	%Recovery
Freon 12	113
Freon 114	122
Chloromethane	101
Vinyl Chloride	109
Bromomethane	112
Chloroethane	128
Freon 11	100
1,1-Dichloroethene	94
Freon 113	96
Methylene Chloride	93
1,1-Dichloroethane	92
cis-1,2-Dichloroethene	101
Chloroform	94
1,1,1-Trichloroethane	99
Carbon Tetrachloride	108
Benzene	102
1,2-Dichloroethane	103
Trichloroethene	105
1,2-Dichloropropane	97
cis-1,3-Dichloropropene	113
Toluene	98
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	100
Tetrachloroethene	108
1,2-Dibromoethane (EDB)	92
Chlorobenzene	100
Ethyl Benzene	97
m,p-Xylene	95
o-Xylene	94
Styrene	114
1,1,2,2-Tetrachloroethane	94
1,3,5-Trimethylbenzene	89
1,2,4-Trimethylbenzene	84
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	79
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	82
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	97
Propylene	104
1,3-Butadiene	102
Acetone	78

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0306002-08B

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

File Name:	**d061003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/03**	

Compound	%Recovery
Carbon Disulfide	80
2-Propanol	80
trans-1,2-Dichloroethene	86
Vinyl Acetate	82
2-Butanone (Methyl Ethyl Ketone)	80
Hexane	73
Tetrahydrofuran	78
Cyclohexane	75
1,4-Dioxane	79
Bromodichloromethane	73
4-Methyl-2-pentanone	76
2-Hexanone	76
Dibromochloromethane	77
Bromoform	59 Q
4-Ethyltoluene	88
Ethanol	82
Methyl tert-butyl ether	75
Heptane	72

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0306002-08BB

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

File Name:	d061004	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/10/03	

Compound	%Recovery
Freon 12	113
Freon 114	124
Chloromethane	104
Vinyl Chloride	109
Bromomethane	127
Chloroethane	129
Freon 11	101
1,1-Dichloroethene	96
Freon 113	98
Methylene Chloride	95
1,1-Dichloroethane	93
cis-1,2-Dichloroethene	102
Chloroform	96
1,1,1-Trichloroethane	101
Carbon Tetrachloride	110
Benzene	102
1,2-Dichloroethane	102
Trichloroethene	105
1,2-Dichloropropane	98
cis-1,3-Dichloropropene	111
Toluene	98
trans-1,3-Dichloropropene	117
1,1,2-Trichloroethane	99
Tetrachloroethene	108
1,2-Dibromoethane (EDB)	92
Chlorobenzene	100
Ethyl Benzene	97
m,p-Xylene	97
o-Xylene	96
Styrene	116
1,1,2,2-Tetrachloroethane	97
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	89
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	84
1,2,4-Trichlorobenzene	90
Hexachlorobutadiene	101
Propylene	104
1,3-Butadiene	104
Acetone	79

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0306002-08BB

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

File Name:	d061004	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/10/03	

Compound	%Recovery
Carbon Disulfide	82
2-Propanol	82
trans-1,2-Dichloroethene	86
Vinyl Acetate	85
2-Butanone (Methyl Ethyl Ketone)	81
Hexane	75
Tetrahydrofuran	79
Cyclohexane	76
1,4-Dioxane	79
Bromodichloromethane	73
4-Methyl-2-pentanone	77
2-Hexanone	77
Dibromochloromethane	78
Bromoform	61
4-Ethyltoluene	89
Ethanol	83
Methyl tert-butyl ether	78
Heptane	72

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

0306002

GEOFON INCORPORATED
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON LAB COORDINATOR: LED WILLIAMSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID: AIR TOXICS	LABORATORY CONTACT: JENIFFER MILLER	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #2	PROJECT LOCATION: JPL VE04	PROJECT NUMBER: 04-4428-10	LABORATORY PHONE: 916-985-1000	LABORATORY FAX: 916-985-1020	RECIPIENT NAME: LED WILLIAMSON
PROJECT CONTACT: LED WILLIAMSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 180 BLUE RAVINE ROAD #B		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 4800 OAK GROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA 91108	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: FOLSUM CA 95630		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASRAR FAHEEM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses TO-14	Comments
01A 1	VE04-A-001-011	AIR	5/30/03	1000	NONE	1*	3	NORM	X	1*L TEDLAR BAG SCREEN — A
02A 2	VE04-B-001-012			1005					X	SCREEN — B
03A 3	VE04-C-001-013			1010					X	SCREEN — C
04A 4	VE04-INN-001-014			1015					X	SCREEN — INFLUENT
05A 5	VE04-EFF-001-015			1020					X	SCREEN — EFFLUENT
6										
7										
8										
9										
10										

CUSTODY SEAL INTACT?
Y N NONE TEMP —

SAMPLES COLLECTED BY: Tony [signature]
COURIER AND AIR BILL NUMBER: FED EX 8413-8382-5219
COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Tony [signature]	Michael Balongo [signature]	6/2/03	900	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0306018

Work Order Summary

CLIENT:	Mr. Leo Williamson Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Leo Williamson Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	04-4428.10 JPL #2
DATE RECEIVED:	6/3/03	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	6/5/03		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE04-A-002-016	Modified TO-14A	Tedlar Bag
02A	VE04-B-002-017	Modified TO-14A	Tedlar Bag
03A	VE04-C-002-018	Modified TO-14A	Tedlar Bag
04A	VE04-INN-002-019	Modified TO-14A	Tedlar Bag
05A	VE04-EFF-002-020	Modified TO-14A	Tedlar Bag
06A	Lab Blank	Modified TO-14A	NA
07A	CCV	Modified TO-14A	NA
08A	LCS	Modified TO-14A	NA
08AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 06/05/03

Certfication numbers: AR DEQ, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/02, Expiration date: 06/30/03
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified Method TO-14A
Geofon
Workorder# 0306018

Five 1 Liter Tedlar Bag samples were received on June 03, 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

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

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 no 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-002-016

ID#: 0306018-01A

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

File Name:	s060413	Date of Collection:	6/2/03
Dil. Factor:	2.50	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	1.2	6.3	84	420
Freon 114	1.2	8.9	Not Detected	Not Detected
Chloromethane	1.2	2.6	Not Detected	Not Detected
Vinyl Chloride	1.2	3.2	Not Detected	Not Detected
Bromomethane	1.2	4.9	Not Detected	Not Detected
Chloroethane	1.2	3.4	Not Detected	Not Detected
Freon 11	1.2	7.1	5.4	31
1,1-Dichloroethene	1.2	5.0	1.4	5.4
Freon 113	1.2	9.7	13	99
Methylene Chloride	1.2	4.4	Not Detected	Not Detected
1,1-Dichloroethane	1.2	5.1	Not Detected	Not Detected
cis-1,2-Dichloroethene	1.2	5.0	Not Detected	Not Detected
Chloroform	1.2	6.2	9.1	45
1,1,1-Trichloroethane	1.2	6.9	2.5	14
Carbon Tetrachloride	1.2	8.0	4.5	29
Benzene	1.2	4.0	Not Detected	Not Detected
1,2-Dichloroethane	1.2	5.1	Not Detected	Not Detected
Trichloroethene	1.2	6.8	38	200
1,2-Dichloropropane	1.2	5.9	Not Detected	Not Detected
cis-1,3-Dichloropropene	1.2	5.8	Not Detected	Not Detected
Toluene	1.2	4.8	4.2	16
trans-1,3-Dichloropropene	1.2	5.8	Not Detected	Not Detected
1,1,2-Trichloroethane	1.2	6.9	Not Detected	Not Detected
Tetrachloroethene	1.2	8.6	4.5	31
1,2-Dibromoethane (EDB)	1.2	9.8	Not Detected	Not Detected
Chlorobenzene	1.2	5.8	Not Detected	Not Detected
Ethyl Benzene	1.2	5.5	Not Detected	Not Detected
m,p-Xylene	1.2	5.5	2.3	10
o-Xylene	1.2	5.5	Not Detected	Not Detected
Styrene	1.2	5.4	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1.2	8.7	Not Detected	Not Detected
1,3,5-Trimethylbenzene	1.2	6.2	Not Detected	Not Detected
1,2,4-Trimethylbenzene	1.2	6.2	1.8	9.0
1,3-Dichlorobenzene	1.2	7.6	Not Detected	Not Detected
1,4-Dichlorobenzene	1.2	7.6	Not Detected	Not Detected
alpha-Chlorotoluene	1.2	6.6	Not Detected	Not Detected
1,2-Dichlorobenzene	1.2	7.6	Not Detected	Not Detected
1,2,4-Trichlorobenzene	5.0	38	Not Detected	Not Detected
Hexachlorobutadiene	5.0	54	Not Detected	Not Detected
Propylene	5.0	8.7	Not Detected	Not Detected
1,3-Butadiene	5.0	11	Not Detected	Not Detected
Acetone	5.0	12	360	860

AIR TOXICS LTD.

SAMPLE NAME: VE04-A-002-016

ID#: 0306018-01A

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

File Name:	s060413	Date of Collection:	6/2/03
Dil. Factor:	2.50	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	5.0	16	Not Detected	Not Detected
2-Propanol	5.0	12	60	150
trans-1,2-Dichloroethene	5.0	20	Not Detected	Not Detected
Vinyl Acetate	5.0	18	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	15	150	450
Hexane	5.0	18	Not Detected	Not Detected
Tetrahydrofuran	5.0	15	Not Detected	Not Detected
Cyclohexane	5.0	17	Not Detected	Not Detected
1,4-Dioxane	5.0	18	Not Detected	Not Detected
Bromodichloromethane	5.0	34	Not Detected	Not Detected
4-Methyl-2-pentanone	5.0	21	Not Detected	Not Detected
2-Hexanone	5.0	21	Not Detected	Not Detected
Dibromochloromethane	5.0	43	Not Detected	Not Detected
Bromoform	5.0	52	Not Detected	Not Detected
4-Ethyltoluene	5.0	25	Not Detected	Not Detected
Ethanol	5.0	9.6	21	40
Methyl tert-butyl ether	5.0	18	Not Detected	Not Detected
Heptane	5.0	21	6.0	25

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-B-002-017

ID#: 0306018-02A

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

File Name:	s060407	Date of Collection:	6/2/03
Dil. Factor:	6.67	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	3.3	17	32	160
Freon 114	3.3	24	Not Detected	Not Detected
Chloromethane	3.3	7.0	Not Detected	Not Detected
Vinyl Chloride	3.3	8.7	Not Detected	Not Detected
Bromomethane	3.3	13	Not Detected	Not Detected
Chloroethane	3.3	8.9	Not Detected	Not Detected
Freon 11	3.3	19	15	86
1,1-Dichloroethene	3.3	13	27	110
Freon 113	3.3	26	230	1800
Methylene Chloride	3.3	12	Not Detected	Not Detected
1,1-Dichloroethane	3.3	14	Not Detected	Not Detected
cis-1,2-Dichloroethene	3.3	13	Not Detected	Not Detected
Chloroform	3.3	16	78	390
1,1,1-Trichloroethane	3.3	18	12	67
Carbon Tetrachloride	3.3	21	110	720
Benzene	3.3	11	Not Detected	Not Detected
1,2-Dichloroethane	3.3	14	Not Detected	Not Detected
Trichloroethene	3.3	18	670	3700
1,2-Dichloropropane	3.3	16	Not Detected	Not Detected
cis-1,3-Dichloropropene	3.3	15	Not Detected	Not Detected
Toluene	3.3	13	3.3 J	13 J
trans-1,3-Dichloropropene	3.3	15	Not Detected	Not Detected
1,1,2-Trichloroethane	3.3	18	Not Detected	Not Detected
Tetrachloroethene	3.3	23	32	220
1,2-Dibromoethane (EDB)	3.3	26	Not Detected	Not Detected
Chlorobenzene	3.3	16	Not Detected	Not Detected
Ethyl Benzene	3.3	15	Not Detected	Not Detected
m,p-Xylene	3.3	15	Not Detected	Not Detected
o-Xylene	3.3	15	Not Detected	Not Detected
Styrene	3.3	14	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	3.3	23	Not Detected	Not Detected
1,3,5-Trimethylbenzene	3.3	17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	3.3	17	Not Detected	Not Detected
1,3-Dichlorobenzene	3.3	20	Not Detected	Not Detected
1,4-Dichlorobenzene	3.3	20	Not Detected	Not Detected
alpha-Chlorotoluene	3.3	18	Not Detected	Not Detected
1,2-Dichlorobenzene	3.3	20	Not Detected	Not Detected
1,2,4-Trichlorobenzene	13	100	Not Detected	Not Detected
Hexachlorobutadiene	13	140	Not Detected	Not Detected
Propylene	13	23	64	110
1,3-Butadiene	13	30	Not Detected	Not Detected
Acetone	13	32	480	1100

AIR TOXICS LTD.

SAMPLE NAME: VE04-B-002-017

ID#: 0306018-02A

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

File Name:	s060407	Date of Collection:	6/2/03
Dil. Factor:	6.67	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	13	42	Not Detected	Not Detected
2-Propanol	13	33	85	210
trans-1,2-Dichloroethene	13	54	Not Detected	Not Detected
Vinyl Acetate	13	48	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	13	40	210	620
Hexane	13	48	Not Detected	Not Detected
Tetrahydrofuran	13	40	Not Detected	Not Detected
Cyclohexane	13	47	Not Detected	Not Detected
1,4-Dioxane	13	49	Not Detected	Not Detected
Bromodichloromethane	13	91	Not Detected	Not Detected
4-Methyl-2-pentanone	13	56	Not Detected	Not Detected
2-Hexanone	13	56	Not Detected	Not Detected
Dibromochloromethane	13	120	Not Detected	Not Detected
Bromoform	13	140	Not Detected	Not Detected
4-Ethyltoluene	13	67	Not Detected	Not Detected
Ethanol	13	26	23	44
Methyl tert-butyl ether	13	49	Not Detected	Not Detected
Heptane	13	56	Not Detected	Not Detected

J = Estimated value.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-C-002-018

ID#: 0306018-03A

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

File Name:	s060414	Date of Collection:	6/2/03
Dil. Factor:	3.33	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	1.7	8.4	34	170
Freon 114	1.7	12	Not Detected	Not Detected
Chloromethane	1.7	3.5	Not Detected	Not Detected
Vinyl Chloride	1.7	4.3	Not Detected	Not Detected
Bromomethane	1.7	6.6	Not Detected	Not Detected
Chloroethane	1.7	4.5	Not Detected	Not Detected
Freon 11	1.7	9.5	12	70
1,1-Dichloroethene	1.7	6.7	4.8	19
Freon 113	1.7	13	35	280
Methylene Chloride	1.7	5.9	Not Detected	Not Detected
1,1-Dichloroethane	1.7	6.8	Not Detected	Not Detected
cis-1,2-Dichloroethene	1.7	6.7	Not Detected	Not Detected
Chloroform	1.7	8.3	20	100
1,1,1-Trichloroethane	1.7	9.2	3.7	20
Carbon Tetrachloride	1.7	11	23	150
Benzene	1.7	5.4	Not Detected	Not Detected
1,2-Dichloroethane	1.7	6.8	Not Detected	Not Detected
Trichloroethene	1.7	9.1	200	1100
1,2-Dichloropropane	1.7	7.8	Not Detected	Not Detected
cis-1,3-Dichloropropene	1.7	7.7	Not Detected	Not Detected
Toluene	1.7	6.4	4.5	17
trans-1,3-Dichloropropene	1.7	7.7	Not Detected	Not Detected
1,1,2-Trichloroethane	1.7	9.2	Not Detected	Not Detected
Tetrachloroethene	1.7	11	14	100
1,2-Dibromoethane (EDB)	1.7	13	Not Detected	Not Detected
Chlorobenzene	1.7	7.8	Not Detected	Not Detected
Ethyl Benzene	1.7	7.3	Not Detected	Not Detected
m,p-Xylene	1.7	7.3	2.8	12
o-Xylene	1.7	7.3	Not Detected	Not Detected
Styrene	1.7	7.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1.7	12	Not Detected	Not Detected
1,3,5-Trimethylbenzene	1.7	8.3	Not Detected	Not Detected
1,2,4-Trimethylbenzene	1.7	8.3	1.9	9.7
1,3-Dichlorobenzene	1.7	10	Not Detected	Not Detected
1,4-Dichlorobenzene	1.7	10	Not Detected	Not Detected
alpha-Chlorotoluene	1.7	8.8	Not Detected	Not Detected
1,2-Dichlorobenzene	1.7	10	Not Detected	Not Detected
1,2,4-Trichlorobenzene	6.7	50	Not Detected	Not Detected
Hexachlorobutadiene	6.7	72	Not Detected	Not Detected
Propylene	6.7	12	Not Detected	Not Detected
1,3-Butadiene	6.7	15	Not Detected	Not Detected
Acetone	6.7	16	490	1200

AIR TOXICS LTD.

SAMPLE NAME: VE04-C-002-018

ID#: 0306018-03A

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

File Name:	s060414	Date of Collection:	6/2/03
Dil. Factor:	3.33	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	6.7	21	Not Detected	Not Detected
2-Propanol	6.7	17	73	180
trans-1,2-Dichloroethene	6.7	27	Not Detected	Not Detected
Vinyl Acetate	6.7	24	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.7	20	240	710
Hexane	6.7	24	Not Detected	Not Detected
Tetrahydrofuran	6.7	20	56	170
Cyclohexane	6.7	23	Not Detected	Not Detected
1,4-Dioxane	6.7	24	Not Detected	Not Detected
Bromodichloromethane	6.7	45	Not Detected	Not Detected
4-Methyl-2-pentanone	6.7	28	7.2	30
2-Hexanone	6.7	28	6.9	29
Dibromochloromethane	6.7	58	Not Detected	Not Detected
Bromoform	6.7	70	Not Detected	Not Detected
4-Ethyltoluene	6.7	33	Not Detected	Not Detected
Ethanol	6.7	13	25	48
Methyl tert-butyl ether	6.7	24	Not Detected	Not Detected
Heptane	6.7	28	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-002-019

ID#: 0306018-04A

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

File Name:	s060415	Date of Collection:	6/2/03
Dil. Factor:	2.00	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	1.0	5.0	68	340
Freon 114	1.0	7.1	Not Detected	Not Detected
Chloromethane	1.0	2.1	Not Detected	Not Detected
Vinyl Chloride	1.0	2.6	Not Detected	Not Detected
Bromomethane	1.0	3.9	Not Detected	Not Detected
Chloroethane	1.0	2.7	Not Detected	Not Detected
Freon 11	1.0	5.7	8.2	46
1,1-Dichloroethene	1.0	4.0	9.4	38
Freon 113	1.0	7.8	79	610
Methylene Chloride	1.0	3.5	1.4	4.8
1,1-Dichloroethane	1.0	4.1	1.0	4.2
cis-1,2-Dichloroethene	1.0	4.0	1.0 J	4.0 J
Chloroform	1.0	5.0	31	150
1,1,1-Trichloroethane	1.0	5.5	5.4	30
Carbon Tetrachloride	1.0	6.4	38	240
Benzene	1.0	3.2	1.2	3.8
1,2-Dichloroethane	1.0	4.1	Not Detected	Not Detected
Trichloroethene	1.0	5.5	250	1400
1,2-Dichloropropane	1.0	4.7	Not Detected	Not Detected
cis-1,3-Dichloropropene	1.0	4.6	Not Detected	Not Detected
Toluene	1.0	3.8	3.6	14
trans-1,3-Dichloropropene	1.0	4.6	Not Detected	Not Detected
1,1,2-Trichloroethane	1.0	5.5	Not Detected	Not Detected
Tetrachloroethene	1.0	6.9	16	110
1,2-Dibromoethane (EDB)	1.0	7.8	Not Detected	Not Detected
Chlorobenzene	1.0	4.7	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.4	6.4
o-Xylene	1.0	4.4	Not Detected	Not Detected
Styrene	1.0	4.3	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1.0	7.0	Not Detected	Not Detected
1,3,5-Trimethylbenzene	1.0	5.0	Not Detected	Not Detected
1,2,4-Trimethylbenzene	1.0	5.0	1.2	6.3
1,3-Dichlorobenzene	1.0	6.1	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	6.1	Not Detected	Not Detected
alpha-Chlorotoluene	1.0	5.3	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	6.1	Not Detected	Not Detected
1,2,4-Trichlorobenzene	4.0	30	Not Detected	Not Detected
Hexachlorobutadiene	4.0	43	Not Detected	Not Detected
Propylene	4.0	7.0	Not Detected	Not Detected
1,3-Butadiene	4.0	9.0	Not Detected	Not Detected
Acetone	4.0	9.6	160	380

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-002-019

ID#: 0306018-04A

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

File Name:	s060415	Date of Collection:	6/2/03
Dil. Factor:	2.00	Date of Analysis:	6/4/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	4.0	13	Not Detected	Not Detected
2-Propanol	4.0	10	32	81
trans-1,2-Dichloroethene	4.0	16	Not Detected	Not Detected
Vinyl Acetate	4.0	14	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	12	74	220
Hexane	4.0	14	Not Detected	Not Detected
Tetrahydrofuran	4.0	12	4.6	14
Cyclohexane	4.0	14	Not Detected	Not Detected
1,4-Dioxane	4.0	15	Not Detected	Not Detected
Bromodichloromethane	4.0	27	Not Detected	Not Detected
4-Methyl-2-pentanone	4.0	17	Not Detected	Not Detected
2-Hexanone	4.0	17	Not Detected	Not Detected
Dibromochloromethane	4.0	35	Not Detected	Not Detected
Bromoform	4.0	42	Not Detected	Not Detected
4-Ethyltoluene	4.0	20	Not Detected	Not Detected
Ethanol	4.0	7.7	9.8	19
Methyl tert-butyl ether	4.0	15	Not Detected	Not Detected
Heptane	4.0	17	5.8	24

J = Estimated value.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-EFF-002-020

ID#: 0306018-05A

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

File Name:	s060410	Date of Collection:	6/2/03
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	110	530
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	4.0	11
Freon 11	0.50	2.8	21	120
1,1-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Freon 113	0.50	3.9	10	80
Methylene Chloride	0.50	1.8	1.4	5.2
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	0.63	2.0
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	3.3	13
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	0.51	2.2
m,p-Xylene	0.50	2.2	2.1	9.1
o-Xylene	0.50	2.2	0.87	3.8
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	1.5	7.5
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	38	91

AIR TOXICS LTD.

SAMPLE NAME: VE04-EFF-002-020

ID#: 0306018-05A

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

File Name:	s060410	Date of Collection:	6/2/03
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	15	38
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	18	55
Hexane	2.0	7.2	Not Detected	Not Detected
Tetrahydrofuran	2.0	6.0	3.1	9.2
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	4.4	8.5
Methyl tert-butyl ether	2.0	7.3	Not Detected	Not Detected
Heptane	2.0	8.3	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0306018-06A

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

File Name:	s060405	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#: 0306018-06A

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

File Name:	s060405	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	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0306018-07A

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

File Name:	s060402	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/4/03	

Compound	%Recovery
Freon 12	83
Freon 114	83
Chloromethane	72
Vinyl Chloride	85
Bromomethane	96
Chloroethane	89
Freon 11	86
1,1-Dichloroethene	85
Freon 113	86
Methylene Chloride	80
1,1-Dichloroethane	88
cis-1,2-Dichloroethene	89
Chloroform	87
1,1,1-Trichloroethane	90
Carbon Tetrachloride	88
Benzene	86
1,2-Dichloroethane	87
Trichloroethene	88
1,2-Dichloropropane	89
cis-1,3-Dichloropropene	90
Toluene	90
trans-1,3-Dichloropropene	87
1,1,2-Trichloroethane	83
Tetrachloroethene	87
1,2-Dibromoethane (EDB)	87
Chlorobenzene	87
Ethyl Benzene	90
m,p-Xylene	88
o-Xylene	87
Styrene	93
1,1,2,2-Tetrachloroethane	86
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	85
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	84
1,2-Dichlorobenzene	86
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	89
Propylene	88
1,3-Butadiene	92
Acetone	96

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0306018-07A

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

File Name:	**s060402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/03**	

Compound	%Recovery
Carbon Disulfide	92
2-Propanol	92
trans-1,2-Dichloroethene	89
Vinyl Acetate	97
2-Butanone (Methyl Ethyl Ketone)	97
Hexane	94
Tetrahydrofuran	92
Cyclohexane	92
1,4-Dioxane	92
Bromodichloromethane	93
4-Methyl-2-pentanone	102
2-Hexanone	99
Dibromochloromethane	91
Bromoform	94
4-Ethyltoluene	90
Ethanol	84
Methyl tert-butyl ether	101
Heptane	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0306018-08A

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

File Name:	s060403	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/4/03	

Compound	%Recovery
Freon 12	100
Freon 114	108
Chloromethane	90
Vinyl Chloride	104
Bromomethane	97
Chloroethane	103
Freon 11	89
1,1-Dichloroethene	86
Freon 113	90
Methylene Chloride	94
1,1-Dichloroethane	85
cis-1,2-Dichloroethene	95
Chloroform	91
1,1,1-Trichloroethane	94
Carbon Tetrachloride	97
Benzene	98
1,2-Dichloroethane	94
Trichloroethene	99
1,2-Dichloropropane	94
cis-1,3-Dichloropropene	110
Toluene	98
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	92
Tetrachloroethene	101
1,2-Dibromoethane (EDB)	85
Chlorobenzene	95
Ethyl Benzene	96
m,p-Xylene	92
o-Xylene	88
Styrene	117
1,1,2,2-Tetrachloroethane	90
1,3,5-Trimethylbenzene	85
1,2,4-Trimethylbenzene	79
1,3-Dichlorobenzene	91
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	101
Propylene	105
1,3-Butadiene	103
Acetone	74

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0306018-08A

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

File Name:	**s060403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/03**	

Compound	%Recovery
Carbon Disulfide	75
2-Propanol	80
trans-1,2-Dichloroethene	79
Vinyl Acetate	80
2-Butanone (Methyl Ethyl Ketone)	77
Hexane	75
Tetrahydrofuran	76
Cyclohexane	74
1,4-Dioxane	78
Bromodichloromethane	69
4-Methyl-2-pentanone	77
2-Hexanone	73
Dibromochloromethane	71
Bromoform	62
4-Ethyltoluene	87
Ethanol	84
Methyl tert-butyl ether	82
Heptane	76

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130