

APPENDIX C



Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel. (909) 590-1828 Fax (909) 590-1498

Aug 25, 2003

GEOFON, Inc.

Attention: Brad Shojaee

22632 Golden Spring Dr Ste 270

Diamond Bar CA 91765

Dear Brad,

This package contains samples in our Service ID 03-4406 and your project : 04-4428.10 JPL
Enclosed please find:

- (1) Original analytical report.
- (2) Original Chain of Custody.
- (3) One diskette containing EDD deliverable.
- (4) One original Level C Data Package Deliverable.

If anything is missing or you have any questions, please feel free to contact me.

Respectfully submitted,

Regina Kirakozova

Associate QA/QC Director

Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

GEOFON, Inc.

Attention: Brad Shojaee

22632 Golden Spring Dr Ste 270

Diamond Bar CA 91765

Tel: (909) 396-7662 Fax: (909) 396-1455

APCL Analytical Report

Service ID #: 801-034406

Received: 07/30/03

Collected by: L. Williamson

Extracted: N/A

Collected on: 07/30/03

Tested: 07/30-08/07/03

Reported: 08/18/03

Sample Description: Water from MW-3,17,19.

Project Description: 04-4428.10 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result			
				DUPE-1-3Q03	EB-2-7/30/03	MW-3-2	MW-3-3
				03-04406-1	03-04406-2	03-04406-3	03-04406-4
Dilution Factor				1	1	1	1
PERCHLORATE	314.0	µg/L	4	<4	<4	8.9	<4
VOLATILE ORGANIC COMPOUNDS							
Dilution Factor				1	1	1	1
BENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOCHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMODICHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOFORM	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
N-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
SEC-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TERT-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-BUTANONE	524.2	µg/L	10	<10	<10	<10	<10
CARBON TETRACHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	0.6	<0.5
CHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLORODIBROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLOROFORM	524.2	µg/L	0.5	1.4	<0.5	<0.5	<0.5
CHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-CHLOROTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
4-CHLOROTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMOETHANE (EDB)	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
DICHLORODIFLUOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

APCL Analytical Report

Analysis Result

Component Analyzed	Method	Unit	PQL	DUPE-1-3Q03	EB-2-7/30/03	MW-3-2	MW-3-3
				03-04406-1	03-04406-2	03-04406-3	03-04406-4
TRANS-1,2-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2,2-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,3-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,3-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
ETHYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
HEXACHLOROBUTADIENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
ISOPROPYLBENZENE (CUMENE)	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
P-ISOPROPYLTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
METHYLENE CHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
METHYL-T-BUTYL ETHER (MTBE)	524.2	µg/L	1	<1	<1	<1	<1
4-METHYL-2-PENTANONE (MIBK)	524.2	µg/L	10	<10	<10	<10	<10
NAPHTHALENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
N-PROPYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
STYRENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-TETRACHLOROETHENE	524.2	µg/L	0.5	0.4J	<0.5	<0.5	<0.5
TOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-TRICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	0.3J	<0.5
TRICHLOROFLUOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRIMETHYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-TRIMETHYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
VINYL CHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
O-XYLENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
M/P-XYLENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-3-4 03-04406-5	MW-17-2 03-04406-6	MW-17-3 03-04406-7	MW-17-4 03-04406-8
Dilution Factor				1	1	5	1
PERCHLORATE	314.0	µg/L	4	< 4	10.9	209	< 4
VOLATILE ORGANIC COMPOUNDS							
Dilution Factor				1	1	1	1
BENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOCHLOROMETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOMETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
N-BUTYLBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
SEC-BUTYLBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
TERT-BUTYLBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-BUTANONE	524.2	µg/L	10	< 10	< 10	< 10	< 10
CARBON TETRACHLORIDE	524.2	µg/L	0.5	< 0.5	0.7	13.0	< 0.5
CHLOROBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLORODIBROMOMETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROFORM	524.2	µg/L	0.5	< 0.5	0.6	3.6	< 0.5
CHLOROMETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-CHLOROTOLUENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-CHLOROTOLUENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DIBROMO-3-CHLOROPROPANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DIBROMOETHANE (EDB)	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOMETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
DICHLORODIFLUOROMETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,2-DICHLOROETHENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROPROPANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,3-DICHLOROPROPANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,2-DICHLOROPROPANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROPROPENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYLBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-3-4	MW-17-2	MW-17-3	MW-17-4
				03-04406-5	03-04406-6	03-04406-7	03-04406-8
HEXACHLOROBUTADIENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
4-METHYL-2-PENTANONE (MIBK)	524.2	µg/L	10	<10	<10	<10	<10
ISOPROPYLBENZENE (CUMENE)	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
P-ISOPROPYLTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
METHYLENE CHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
METHYL-T-BUTYL ETHER (MTBE)	524.2	µg/L	1	<1	<1	<1	<1
NAPHTHALENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
N-PROPYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
STYRENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	0.4J	<0.5
TOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-TRICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE	524.2	µg/L	0.5	<0.5	3.4	3.8	1
TRICHLOROFLUOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRIMETHYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-TRIMETHYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
VINYL CHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
O-XYLENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
M/P-XYLENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-19-1	MW-19-2	MW-19-3
				03-04406-9	03-04406-10	03-04406-11
Dilution Factor				1	1	1
PERCHLORATE	314.0	µg/L	4	<4	3.6J	3.0J

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-19-1 03-04406-9	MW-19-2 03-04406-10	MW-19-3 03-04406-11
VOLATILE ORGANIC COMPOUNDS						
Dilution Factor				1	1	1
BENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
BROMOBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
BROMOCHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
BROMODICHLOROMETHANE	524.2	µg/L	0.5	<0.5	0.4J	<0.5
BROMOFORM	524.2	µg/L	0.5	<0.5	<0.5	<0.5
BROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
N-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
SEC-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
TERT-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2-BUTANONE	524.2	µg/L	10	<10	<10	<10
CARBON TETRACHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CHLORODIBROMOMETHANE	524.2	µg/L	0.5	<0.5	0.6	0.4J
CHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CHLOROFORM	524.2	µg/L	0.5	<0.5	0.6	<0.5
CHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2-CHLOROTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
4-CHLOROTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-DIBROMOETHANE (EDB)	524.2	µg/L	0.5	<0.5	<0.5	<0.5
DIBROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
DICHLORODIFLUOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-DICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
TRANS-1,2-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2,2-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CIS-1,3-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
TRANS-1,3-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
ETHYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
HEXACHLOROBUTADIENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
ISOPROPYLBENZENE (CUMENE)	524.2	µg/L	0.5	<0.5	<0.5	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-19-1	MW-19-2	MW-19-3
				03-04406-9	03-04406-10	03-04406-11
P-ISOPROPYLTOLUENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
METHYL-T-BUTYL ETHER (MTBE)	524.2	µg/L	1	< 1	< 1	< 1
4-METHYL-2-PENTANONE (MIBK)	524.2	µg/L	10	< 10	< 10	< 10
NAPHTHALENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
N-PROPYLBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
STYRENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,1,1,2-TETRACHLOROETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	524.2	µg/L	0.5	< 0.5	1.2	1.7
TOLUENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2,3-TRICHLOROBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2,4-TRICHLOROBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHENE	524.2	µg/L	0.5	< 0.5	0.6	0.4J
TRICHLOROFLUOROMETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2,3-TRICHLOROPROPANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2,4-TRIMETHYLBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,3,5-TRIMETHYLBENZENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
O-XYLENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
M/P-XYLENE	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-19-4	MW-19-5	TB-2-7/30/03
				03-04406-12	03-04406-13	03-04406-14
Dilution Factor				1	1	1
PERCHLORATE	314.0	µg/L	4	< 4	< 4	-

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-19-4 03-04406-12	MW-19-5 03-04406-13	TB-2-7/30/03 03-04406-14
VOLATILE ORGANIC COMPOUNDS						
Dilution Factor				1	1	1
BENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
BROMOBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
BROMOCHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
BROMODICHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
BROMOFORM	524.2	µg/L	0.5	<0.5	<0.5	<0.5
BROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
N-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
SEC-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
TERT-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2-BUTANONE	524.2	µg/L	10	<10	<10	<10
CARBON TETRACHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CHLORODIBROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CHLOROFORM	524.2	µg/L	0.5	1.0	<0.5	<0.5
CHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2-CHLOROTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
4-CHLOROTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-DIBROMOETHANE (EDB)	524.2	µg/L	0.5	<0.5	<0.5	<0.5
DIBROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
DICHLORODIFLUOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-DICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
TRANS-1,2-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2,2-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CIS-1,3-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
TRANS-1,3-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
ETHYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
HEXACHLOROBUTADIENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
ISOPROPYLBENZENE (CUMENE)	524.2	µg/L	0.5	<0.5	<0.5	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-19-4	MW-19-5	TB-2-7/30/03
				03-04406-12	03-04406-13	03-04406-14
P-ISOPROPYLTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
METHYLENE CHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	2.3
METHYL-T-BUTYL ETHER (MTBE)	524.2	µg/L	1	<1	<1	<1
4-METHYL-2-PENTANONE (MIBK)	524.2	µg/L	10	<10	<10	2J
NAPHTHALENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
N-PROPYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
STYRENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE	524.2	µg/L	0.5	0.3J	3.8	<0.5
TOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,1-TRICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
TRICHLOROFLUOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,2,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,4-TRIMETHYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3,5-TRIMETHYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
VINYL CHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
O-XYLENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
M/P-XYLENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-3-2	MW-3-3	MW-3-4
				03-04406-3	03-04406-4	03-04406-5
CHROMIUM (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-17-2 03-04406-6	MW-17-3 03-04406-7	MW-17-4 03-04406-8
CHROMIUM (VI)	7196	mg/L	0.01	< 0.01	< 0.01	< 0.01

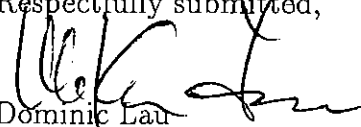
PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,



Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Level C Data Package Deliverables

General Information

Project: 04-4428.10 JPL

APCL Service ID: 03-4406



Applied P & Ch Laboratory

13760 Magnolia Ave. Chino, CA 91710

Telephone (909)590-1828

Fax (909)590-1498

Case Narrative

Project: JPL/MW-3,17,19./04-4428.10

For GEOFON, Inc.

APCL Service No: 03-4406

1. Sample Identification

The sample identifications are listed in the following table:

GEOFON, Inc. Sample ID	APCL Sample ID
MW-3-4	03-04406-5
MW-3-3	03-04406-4
MW-3-2	03-04406-3
MW-17-4	03-04406-8
MW-17-3	03-04406-7
MW-17-2	03-04406-6
MW-19-5	03-04406-13
MW-19-4	03-04406-12
MW-19-3	03-04406-11
MW-19-2	03-04406-10
MW-19-1	03-04406-9
TB-2-7/30/03	03-04406-14
EB-2-7/30/03	03-04406-2
DUPE-1-3Q03	03-04406-1

2. Analytical Methodology

Samples are analyzed by EPA methods

524.2 (Volatile Organic Compounds),

7196 (Chromium (VI)),

314.0 (Perchlorate, low level),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

None

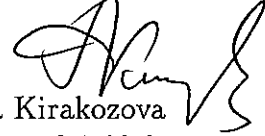
6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and condi-

tions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Regina Kirakozova', written over the printed name.

Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave., Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID: **4106** Client Name/Project: Gecon

1. Sample Arrival

Date/Time Received 7/30/03 1345 Date/Time Opened 7/30/03 1345 By (name): Kernu Chom
Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☒ APCL Empl: 2011B

2. Chain-of-Custody (CoC)

☒ With Samples? ☐ Faxed? ☐ Client has Copy? ☐ Signed, dated? By: _____
☒ Project ID? ☒ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received 14
☒ CoC/Docs Zip-Locked under lid? ☐ Compos. #: _____ ☒ #Samples OK?
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. Shipping Container/Cooler

☒ Cooler Used? # of 1 Cooled by: ☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ None
Temp °C 40
(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).
Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ pH <2 ☐ pH >12
If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☒ Cr^{VI} 24hr ☐ NO₃ 48hr ☐ BOD 48hr
☐ Cl₂ ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☒ Intact? ☐ Broken? ☐ Documented? Number: _____
Type: ☒ plastic ☒ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☒ Quantity OK? ☐ Leaking? ☐ Anomaly?
☒ Caps Tight? ☐ Air Bubbles? ☐ Anomaly?
Labels: ☒ Unique ID? ☒ Date/Time ☐ Preserved?

7. Turn Around Time

☐ RUSH TAT: _____ ☒ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H₂O ☐ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☒ Ground H₂O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☒ ALL OK? (if not, attach docs) ☐ Client Contact? (Name: _____) Date/Time: _____

Received/Checked by: [Signature] Printed: 30 Jul 2003 7:28 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [acal.texfiles]smprcl.tex.



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

NW-3 0243

GEOFON, LAB COORDINATOR

LAB COORDINATOR'S PHONE

LAB COORDINATOR'S FAX

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

Bad Shajae

(909) 396-7662

(909) 396-1455

—

Kenny Chan

GEOFON INC.

PROJECT NAME
NW-3 (Settling Fund)

PROJECT LOCATION
NW-3 (Settling Fund)

PROJECT PHONE NUMBER
(714) 520-8729

PROJECT FAX
(909) 396-1455

LABORATORY PHONE
(909) 590-1828

LABORATORY FAX
(909) 590-1498

RECIPIENT NAME
Tony Ford

PROJECT CONTACT
J. Robinson

CITY, STATE AND ZIP CODE
(714) 520-8729

CLIENT
(909) 396-1455

LABORATORY ADDRESS
13760 Magnolia Ave.

CITY, STATE AND ZIP CODE
Chino, CA 91710

ADDRESS
22632 Golden Springs Dr. #270

PROJECT ADDRESS
4800 Oak Grove Dr.

CITY, STATE AND ZIP CODE
Pasadena, CA

CLIENT
US NAVY Supv

CITY, STATE AND ZIP CODE
Chino, CA

CITY, STATE AND ZIP CODE
Diamond Bar, CA 91765

PROJECT MANAGER
Asrar Fakhem

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

524.2 (VOCs)

314.1 (Reichle)

119.6 (Flex Chrom)

200.8 (Total Chrom)

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

1 MN-3-4

H₂O

7/30/03

1005

HC

34141

TTC

NORMAL

X

X

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SAMPLES COLLECTED BY

Co W. Williamson

COURIER AND AIR BILL NUMBER

DATE

TIME

COOLER TEMPERATURE UPON RECEIPT

REINQUISHED BY

Co W. Williamson

RECEIVED BY

DATE

TIME

SAMPLE'S CONDITION UPON RECEIPT

Signature

Signature

Signature

Signature

Signature



CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

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

MW-17

0044

GEOFON LAB COORDINATOR

LAB COORDINATOR'S PHONE

LAB COORDINATOR'S FAX

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

Brad Shojice

(909) 396-7662

(909) 396-1455

—

Kenny Chan

GEOFON, INC.

PROJECT NAME:
The Guy Mon-3903

PROJECT LOCATION
MW-17 (Harriet & Castles)

PROJECT NUMBER
04-4428.10

LABORATORY PHONE
(909) 590-1826

LABORATORY FAX
(909) 590-1498

RECIPIENT NAME
Tony Ford

PROJECT CONTACT
J. Robinson

PROJECT PHONE NUMBER
(714) 920-8729

PROJECT FAX
(909) 396-1455

LABORATORY ADDRESS
13760 Magnolia Ave.

CITY, STATE AND ZIP CODE
Chino, CA 91710

ADDRESS
22632 Golden Springs Dr. #270

PROJECT ADDRESS
4800 Oak Grove Dr.

CITY, STATE AND ZIP CODE
Pasadena, CA

CLIENT
US NAVY SWOIR

CITY, STATE AND ZIP CODE
Chino, CA 91710

LABORATORY CONTACT
Diamond Bar, CA 91765

PROJECT MANAGER
Ayra Fabeen

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

24.2 (NO₃)
314.0 (Mn) (Chrom)

796 (Mn) (Chrom)

200.8 (Total Chromium)

Comments

1 MW-17-4

H₂O

7/3/03

1128

None

3+1+1

III

Normal

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

2 MW-17-3

H₂O

7/3/03

1128

None

3+1+1

III

Normal

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

3 MW-17-2

H₂O

7/3/03

1128

None

3+1+1

III

Normal

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

4

H₂O

7/3/03

1128

None

3+1+1

III

Normal

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

5

H₂O

7/3/03

1128

None

3+1+1

III

Normal

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

6

H₂O

7/3/03

1128

None

3+1+1

III

Normal

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

7

H₂O

7/3/03

1128

None

3+1+1

III

Normal

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

8

H₂O

7/3/03

1128

None

3+1+1

III

Normal

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

9

H₂O

7/3/03

1128

None

3+1+1

III

Normal

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

10

H₂O

7/3/03

1128

None

3+1+1

III

Normal

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

SAMPLES COLLECTED BY

Lee W. Williams

COURIER AND AIR BILL NUMBER

RECEIVED BY

DATE

TIME

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

RECEIVED BY

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

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7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57

7-30-03 11:57



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

MMW-19

0042

GEOFON, LAB COORDINATOR

LAB COORDINATOR'S PHONE

LAB COORDINATOR'S FAX

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

Brad Shojaee

(909) 396-7662

(909) 396-1455

Kenny Chan

GEOFON, INC.

PROJECT NAME:
JPL 6w MMW-3903

PROJECT LOCATION:
MMW-19 (Pasadena City Yard) 04-442810

LABORATORY PHONE:
(909) 590-1826

RECIPIENT NAME:
Tony Ford

PROJECT CONTACT:
J. Robinson

PROJECT PHONE NUMBER:
(714) 920-8729

LABORATORY FAX:
(909) 590-1498

ADDRESS:
22632 Golden Springs Dr. #270
Diamond Bar, CA 91765

PROJECT ADDRESS:
4800 Oakhurst Pl.

CITY, STATE AND ZIP CODE:
Pasadena, CA

CLIENT:
US NAVY SMOU

CITY, STATE AND ZIP CODE:
Chino, CA

PROJECT MANAGER:
Asrar Fakhem

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

Comments

1 MMW-19-5

H₂O

HCl

3+1

III

Normal

X

X

X

X

X

2 MMW-19-4

805

805

829

850

8907

X

X

X

X

X

3 MMW-19-3

829

850

8907

X

X

X

X

X

4 MMW-19-2

850

8907

X

X

X

X

X

X

X

5 MMW-19-1

8907

X

X

X

X

X

X

X

X

6

2.30.03

X

X

X

X

X

X

X

X

7 1B-2-7/30/03

H₂O

HCl

3

III

Normal

X

X

X

X

X

8 EB-2-7/30/03

7/30/03

HCl

3+1

IV

Normal

X

X

X

X

X

9 DURE-1-3903

2

2.30.03

X

X

X

X

X

X

X

X

10

2

2.30.03

X

X

X

X

X

X

X

X

SAMPLES COLLECTED BY: Lois W. Williamson

CARRIER AND AIR BILL NUMBER:

RECEIVED BY:

DATE:

TIME:

SAMPLE'S CONDITION UPON RECEIPT

COOLER TEMPERATURE UPON RECEIPT

Lois W. Williamson

5/30/03

12:58

2-30-03

13:45

2-30-03

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

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

03-04406 (0470_ 157) (2202777_ 157)

07/30/03

Part 1: General Information

☐ Company Information	Name:	GEOFON, Inc.
	Address:	22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765

☐ Project Information	Project Description:	JPL
--	----------------------	-----

	Project #:	04-4428.10
--	------------	------------

☐ Billing Information	P.O. #:	
	Bill Address:	22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765
	Lab Project ID:	
	Client Database #:	3

☐ Receiving Information	Who Received Sample?	Kenny Chan
	Receiving Date/Time:	07/30/03 1345
	COC No.	

☐ Shipping Information	Shipping Company	APCL pick up
	Packing Information:	Cooler/Ice Chester
	Cooler Temperature:	4.0 °C

☐ Container Information	Container Provider:	Client
--	---------------------	--------

☐ Sampling Information	Sampling Person:	
	Sampling Company:	Client

☐ Turn-Around-Time Option:	Rush 5 working day(s)
---	-----------------------

☐ QC Option:	NEESA C
-------------------------------------	---------

☐ Disposal Option:	Not specify
---	-------------

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont- tainer	Preser- vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	MW-3-4	VOC	03-04406-5- α	W	V	C	40	3	G	073003	N	0	7	☐
	MW-3-4	CRVI/Perch	03-04406-5- β	W	P		500	1	G	073003	N	0	7	☐
2	MW-3-3	VOC	03-04406-4- α	W	V	C	40	3	G	073003	N	0	7	☐
	MW-3-3	CRVI/Perch	03-04406-4- β	W	P		500	1	G	073003	N	0	7	☐
3	MW-3-2	VOC	03-04406-3- α	W	V	C	40	3	G	073003	N	0	7	☐
	MW-3-2	CRVI/Perch	03-04406-3- β	W	P		500	1	G	073003	N	0	7	☐
4	MW-17-4	VOC	03-04406-8- α	W	V	C	40	3	G	073003	N	0	7	☐
	MW-17-4	CRVI/Perch	03-04406-8- β	W	P		500	1	G	073003	N	0	7	☐
5	MW-17-3	VOC	03-04406-7- α	W	V	C	40	3	G	073003	N	0	7	☐
	MW-17-3	CRVI/Perch	03-04406-7- β	W	P		500	1	G	073003	N	0	7	☐
6	MW-17-2	VOC	03-04406-6- α	W	V	C	40	3	G	073003	N	0	7	☐
	MW-17-2	CRVI/Perch	03-04406-6- β	W	P		500	1	G	073003	N	0	7	☐
7	MW-19-5	VOC	03-04406-13- α	W	V	C	40	3	G	073003	N	0	7	☐
	MW-19-5	Perch	03-04406-13- β	W	P		500	1	G	073003	N	0	7	☐
8	MW-19-4	VOC	03-04406-12- α	W	V	C	40	3	G	073003	N	0	7	☐
	MW-19-4	Perch	03-04406-12- β	W	P		500	1	G	073003	N	0	7	☐
9	MW-19-3	VOC	03-04406-11- α	W	V	C	40	3	G	073003	N	0	7	☐
	MW-19-3	Perch	03-04406-11- β	W	P		500	1	G	073003	N	0	7	☐
10	MW-19-2	VOC	03-04406-10- α	W	V	C	40	6	G	073003	N	0	7	☐
	MW-19-2	Perch	03-04406-10- β	W	P		500	2	G	073003	N	0	7	☐
11	MW-19-1	VOC	03-04406-9- α	W	V	C	40	3	G	073003	N	0	7	☐
	MW-19-1	Perch	03-04406-9- β	W	P		500	1	G	073003	N	0	7	☐
12	TB-2-7/30/03	VOC	03-04406-14	W	V	C	40	3	G	073003	N	0	7	☐
13	EB-2-7/30/03	VOC	03-04406-2- α	W	V	C	40	3	G	073003	N	0	7	☐
	EB-2-7/30/03	Perch	03-04406-2- β	W	P		500	1	G	073003	N	0	7	☐
14	DUPE-1-3Q03	VOC	03-04406-1- α	W	V	C	40	3	G	073003	N	0	7	☐
	DUPE-1-3Q03	Perch	03-04406-1- β	W	P		500	1	G	073003	N	0	7	☐

Part 3: Analysis Information

Test Items:

- ☐ 524.2 Volatile Organic Compounds
- ☐ 7196A Chromium (VI)
- ☐ 314.0/300.0 Perchlorate, low level
- ☐ 300.0 Chloride Cl^- by IC
- ☐ 300.0 Sulfate (SO_4^{--}), by IC
- ☐ 300.0/SM4500NO $_3$ Nitrate (NO_3^-) as N by IC
- ☐ SM2320B Carbonate
- ☐ SM2320B Bicarbonate
- ☐ 9040B/150.1 pH

Level C Data Package Deliverables

Volatile Organics



Applied P & Ch Laboratory

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 08/06/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: 03G3570-MB-01	Lab Sample ID: 03G3570-MB-01	Received Date: 08/06/2003
Sample Type: Method Blank	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: G3570K01	Prep. No: -	Anal. Time: 13:08
Methanol Vol. -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	< 0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	< 0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	< 0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	< 0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	< 0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	< 0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	< 0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	< 0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	< 10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	< 0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	< 0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	< 0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	< 0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	< 0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	< 0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	< 0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	< 0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	< 0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	< 0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	< 0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	< 0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	< 0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	< 0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	< 0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	< 0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	< 0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	< 0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	< 0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	< 0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	< 0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	< 0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	< 0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	< 0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	< 0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	< 0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	< 0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	< 0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	<0.5	U
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	1,1,2,2-TETRACHLOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

Control Limit, %

Surro. Rec.%

1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4
2	1,2-DICHLOROETHANE-D4	17060-07-0
3	DIBROMOFLUOROMETHANE	1868-53-7
4	TOLUENE-D8	2037-26-5

70-129

94

70-129

105

70-122

104

73-129

98

of out-of-control

0

Internal Standard

Control Limit, %

IS Rec.%

1	CHLOROBENZENE-D5	3114-55-4
2	1,4-DICHLOROBENZENE-D4	3855-82-1
3	FLUOROBENZENE	462-06-6

50-200

96

50-200

98

50-200

92

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570K01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 13:08 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:39 2003
 Print Time : Thu Aug 07 16:39 2003
 Miscellaneous :

Sample : f=1
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

1608

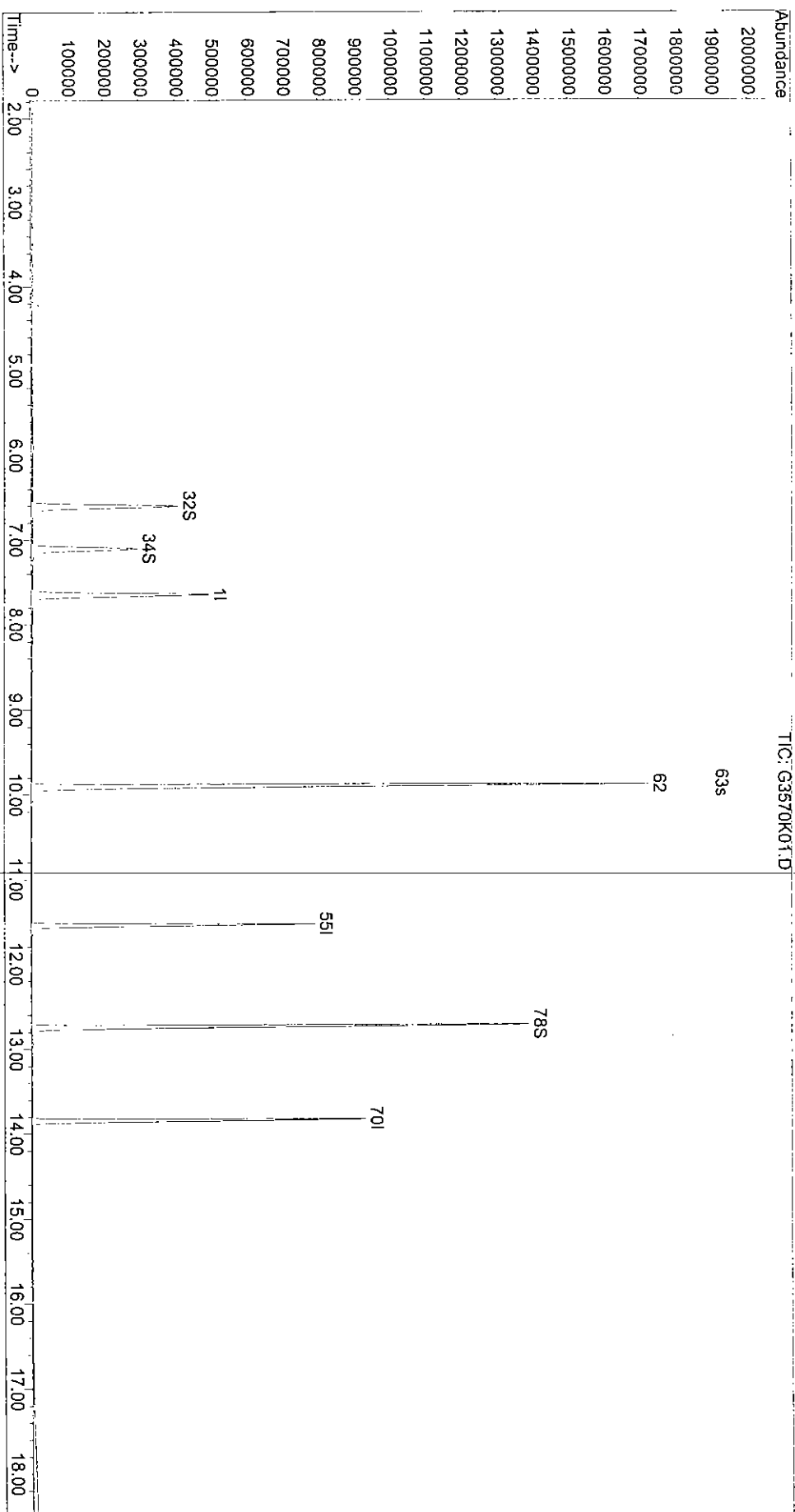
ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards											
1	1 Fluorobenzene	7.65	7.63	0.003	96	70	728.257	10.00		0.02	
47	47 Chlorobenzene-d5	11.55	11.54	0.000	117	82	583.860	10.00		0.00	
62	62 1,4-Dichlorobenzene	13.85	13.84	0.000	152	150	305.134	10.00		0.00	
System Monitoring Compounds (Surrogate)											
27	27 Di-Br-F-Me (surr)	6.60	6.58	0.002	111	113	376.354	20.74	20.7	103.68%	
29	29 1,2-Di-Cl-Et-d4 (	7.11	7.08	0.002	65	102	309.132	21.03	21.0	105.15%	
55	55 toluene-d8	9.91	9.89	0.000	98	100	1438.410	19.55	19.5	97.74%	
70	70 4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	472.347	18.72	18.7	93.58%	
Target Compounds											
<<<	I2 : ISTD	ID = 47	>>>								
54	54 MIBK	9.90	9.76	0.012	43	58	4.057	0.48	0.5	1	#

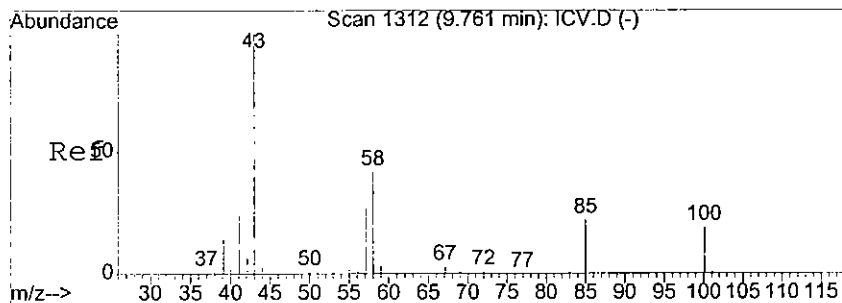
= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570K01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 13:08 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:39 2003
 Print Time : Thu Aug 07 16:39 2003
 Miscellaneous :

Sample : f=1
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

1609





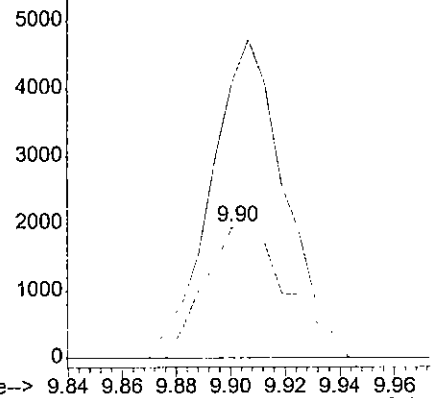
#62
 54 MIBK
 Concen: 0.48 ppb
 RT: 9.90 min Scan# 1335
 Delta R.T. 0.14 min
 Lab File: G3570K01.D
 Acq: 6 Aug 2003 1:08 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	210.2	20.1	60.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

Abundance

Ion 43.00 (42.70 to 43.70): G3570K01

Ion 58.00 (57.70 to 58.70): G3570K01



Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 08/07/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: 03G3595-MB-01	Lab Sample ID: 03G3595-MB-01	Received Date: 08/07/2003
Sample Type: Method Blank	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3595	Prep. Date: 08/07/03	Anal. Date: 08/07/03
Data File Name: G3595K01	Prep. No: -	Anal. Time: 13:17
Methanol Vol. -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Spurge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	< 0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	< 0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	< 0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	< 0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	< 0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	< 0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	< 0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	< 0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	< 10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	< 0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	< 0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	< 0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	< 0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	< 0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	< 0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	< 0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	< 0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	< 0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	< 0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	< 0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	< 0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	< 0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	< 0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	< 0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	< 0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	< 0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	< 0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	< 0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	< 0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	< 0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	< 0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	< 0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	< 0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	< 0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	< 0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	< 0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	< 0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	<0.5	U
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	1,1,2,2-TETRACHLOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

Control Limit, %

Surro. Rec.%

1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4
2	1,2-DICHLOROETHANE-D4	17060-07-0
3	DIBROMOFLUOROMETHANE	1868-53-7
4	TOLUENE-D8	2037-26-5

70-129
70-129
70-122
73-129

96
110
105
98

of out-of-control

0

Internal Standard

Control Limit, %

IS Rec.%

1	CHLOROBENZENE-D5	3114-55-4
2	1,4-DICHLOROBENZENE-D4	3855-82-1
3	FLUOROBENZENE	462-06-6

50-200
50-200
50-200

98
96
94

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: DUPE-1-3Q03	Lab Sample ID: 03-4406-1	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: 4406-01	Prep. No: -	Anal. Time: 17:05
Methanol Vol: -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	< 0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	< 0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	< 0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	< 0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	< 0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	< 0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	< 0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	< 0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	< 10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	< 0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	< 0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	< 0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	< 0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	1.4	
16	CHLOROMETHANE	74-87-3	µg/L	0.5	< 0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	< 0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	< 0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	< 0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	< 0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	< 0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	< 0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	< 0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	< 0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	< 0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	< 0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	< 0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	< 0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	< 0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	< 0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	< 0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	< 0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	< 0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	< 0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	< 0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	< 0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	< 0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	< 0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	0.4	J
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	<0.5	U
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	112TRICHLORO-122TRIFLUOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

Control Limit, %

Surro. Rec.%

1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL	460-00-4
2	1,2-DICHLOROETHANE-D4	17060-07-0
3	DIBROMOFLUOROMETHANE	1868-53-7
4	TOLUENE-D8	2037-26-5

70-129

96

70-129

109

70-122

106

73-129

100

of out-of-control

0

Internal Standard

Control Limit, %

IS Rec.%

1	CHLOROBENZENE-D5	3114-55-4
2	1,4-DICHLOROENZENE-D4	3855-82-1
3	FLUOROBENZENE	462-06-6

50-200

93

50-200

95

50-200

90

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

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 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 17:05 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:41 2003
 Print Time : Thu Aug 07 16:41 2003
 Miscellaneous :

Sample : f=1 dup
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

1615

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
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Internal Standards											
1	Fluorobenzene	7.65	7.63	0.003	96	70	707.817	10.00		0.02	
47	Chlorobenzene-d5	11.55	11.54	0.000	117	82	564.353	10.00		0.00	
62	1,4-Dichlorobenzene	13.85	13.84	0.000	152	150	296.802	10.00		0.00	

System Monitoring Compounds (Surrogate)											
27	Di-Br-F-Me (surr)	6.60	6.58	0.002	111	113	372.733	21.13	21.1	105.65%	
29	1,2-Di-Cl-Et-d4 (	7.10	7.08	0.001	65	102	311.783	21.82	21.8	109.12%	
55	toluene-d8	9.91	9.89	0.000	98	100	1419.522	19.96	20.0	99.79%	
70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	469.788	19.14	19.1	95.68%	

Target Compounds

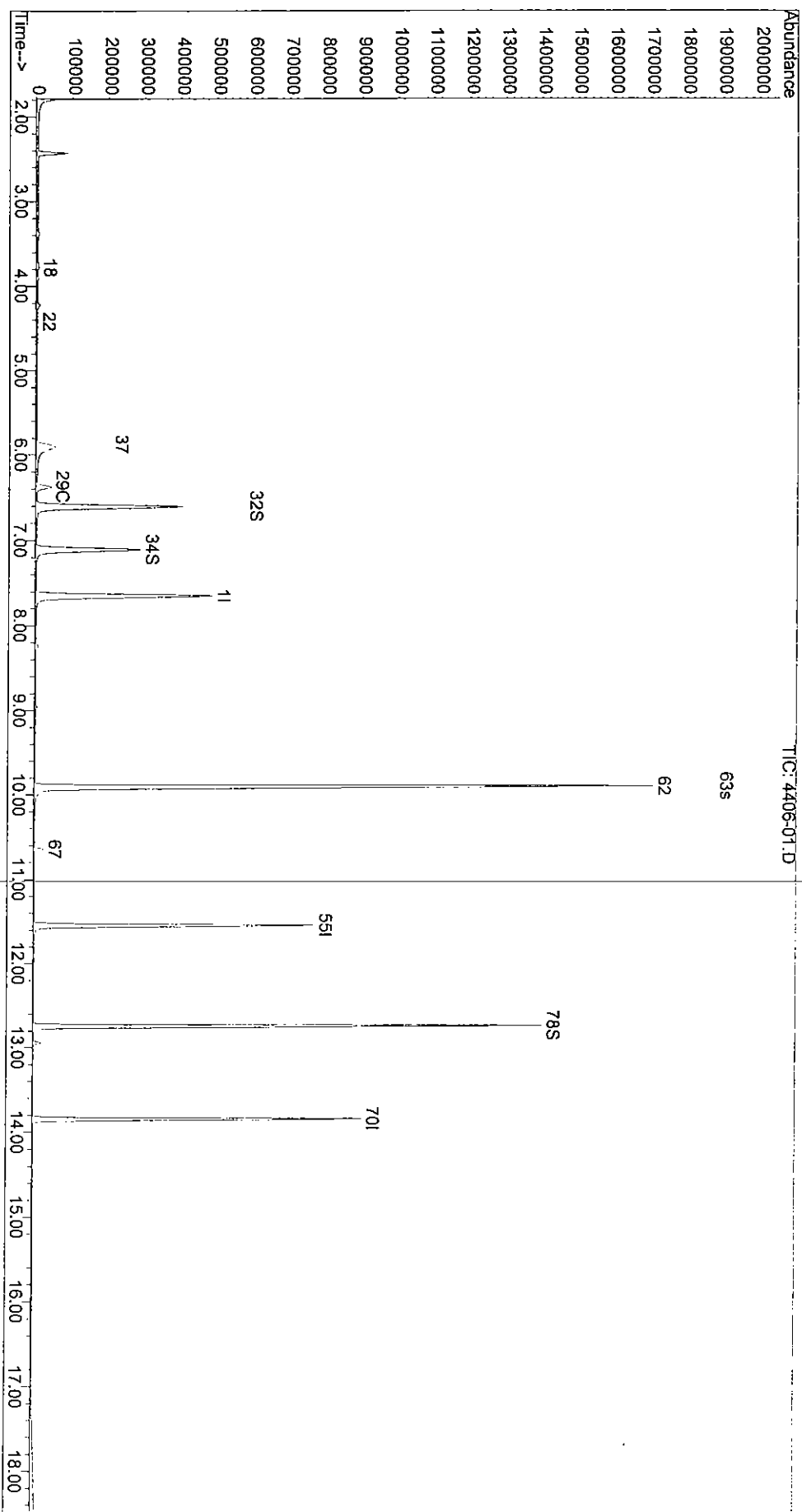
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94	Isopropyl Alcohol	3.78	4.01	-0.030	45	43	0.648	5.70	5.7	100	#
95	Tert butyl alcoho	4.42	4.47	-0.006	59	57	0.203	24.38	24.4	100	#
25	chloroform	6.38	6.35	0.003	83	85	48.091	1.42	1.4	99	#
92	Nitro Methane(x10	5.87	5.80	0.009	61	46	0.500	1.27	1.3	16	#
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54	MTBK	9.90	9.76	0.012	43	58	4.204	0.51	0.5	1	#
59	tetra-Cl-ethene	10.65	10.64	0.001	166	168	10.410	0.43	0.4	90	#

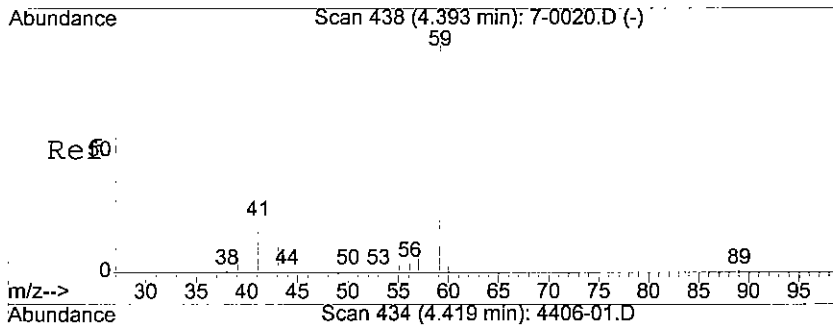
Qvalue

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

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 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:41 2003
 Print Time : Thu Aug 07 16:41 2003
 Miscellaneous :

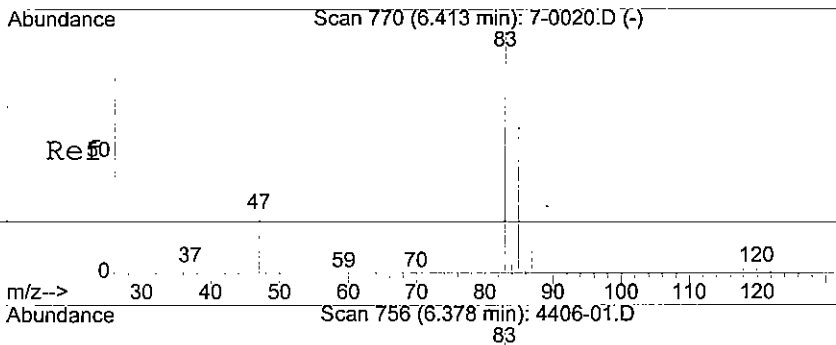
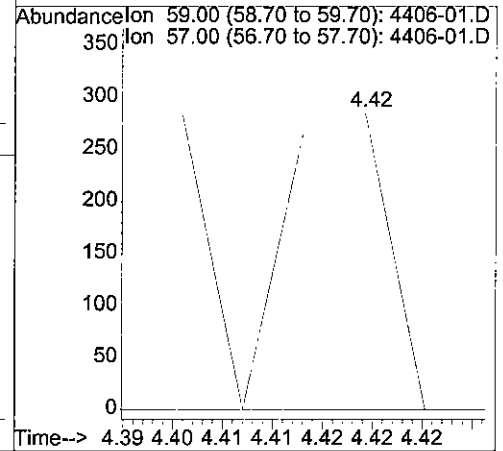
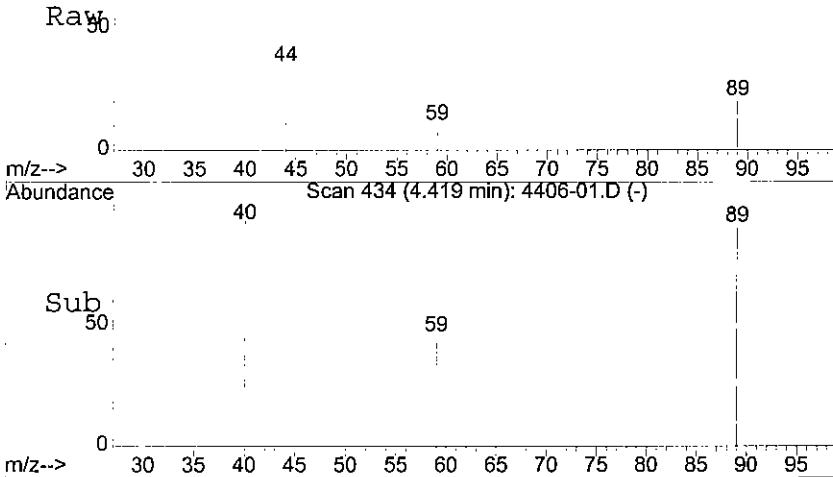
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 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000





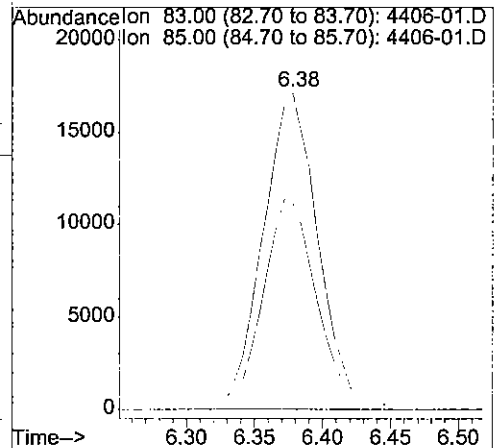
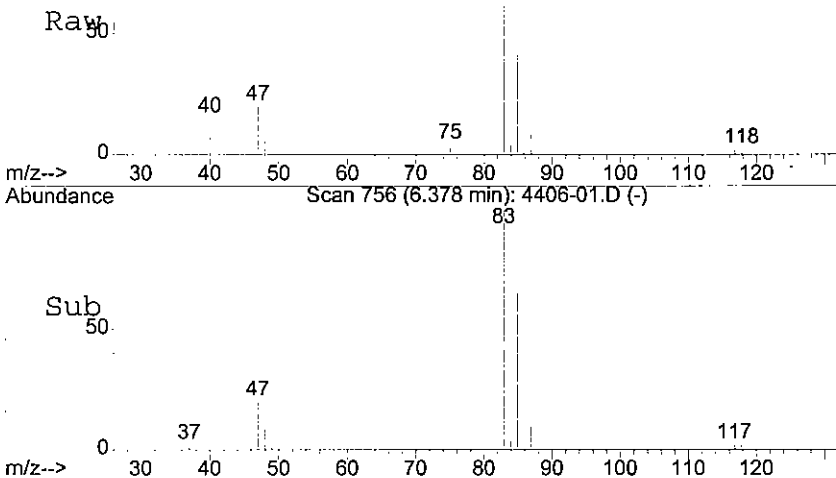
#22
95 Tert butyl alcoholx10
Concen: 10.47 ppb
RT: 4.42 min Scan# 434
Delta R.T. 0.02 min
Lab File: 4406-01.D
Acq: 6 Aug 2003 5:05 pm

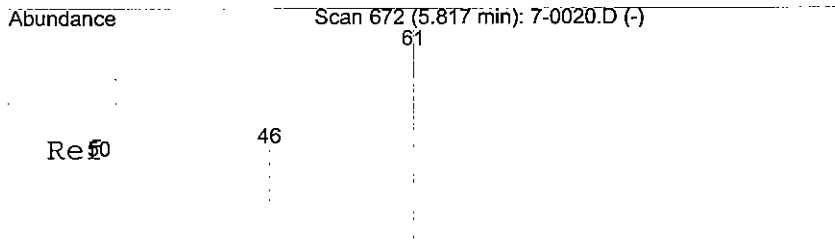
Tgt Ion	Resp	Lower	Upper
59	203		
57	0.0	8.8	13.2#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



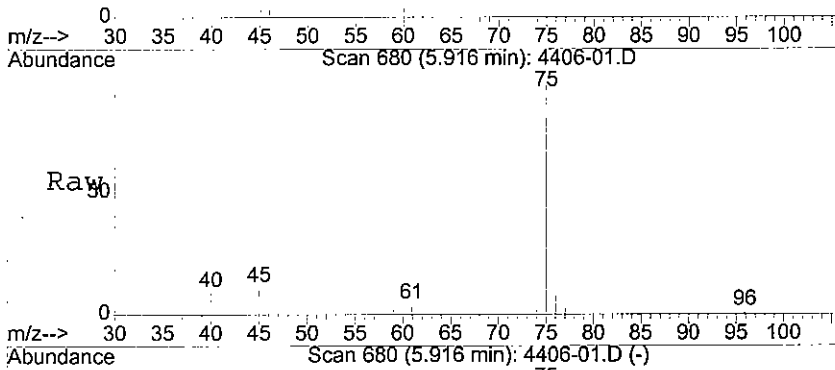
#29
25 chloroform
Concen: 1.42 ppb
RT: 6.38 min Scan# 756
Delta R.T. 0.03 min
Lab File: 4406-01.D
Acq: 6 Aug 2003 5:05 pm

Tgt Ion	Resp	Lower	Upper
83	48091		
85	64.8	44.3	84.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

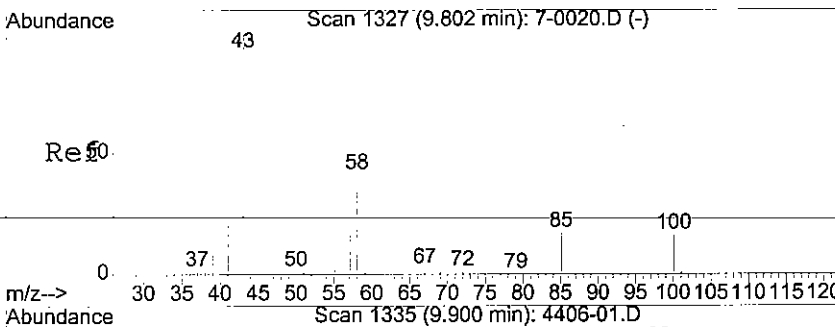
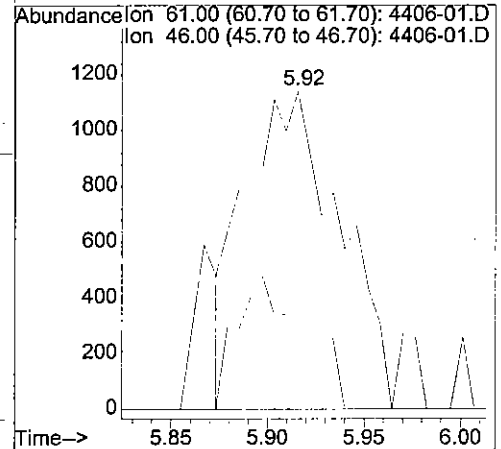




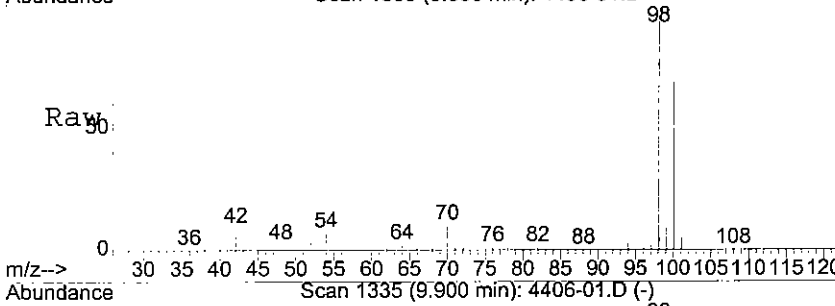
#37
 92 Nitro Methane (x10)
 Concen: 9.74 ppb
 RT: 5.92 min Scan# 680
 Delta R.T. 0.14 min
 Lab File: 4406-01.D
 Acq: 6 Aug 2003 5:05 pm



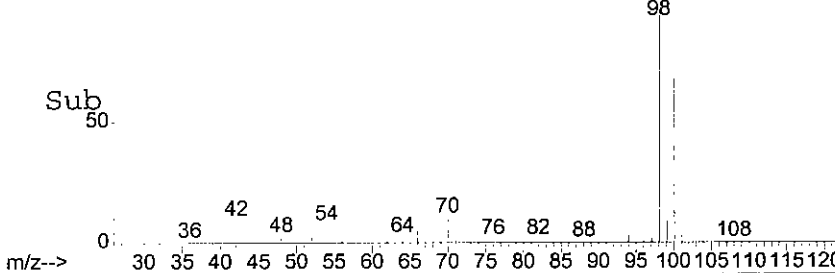
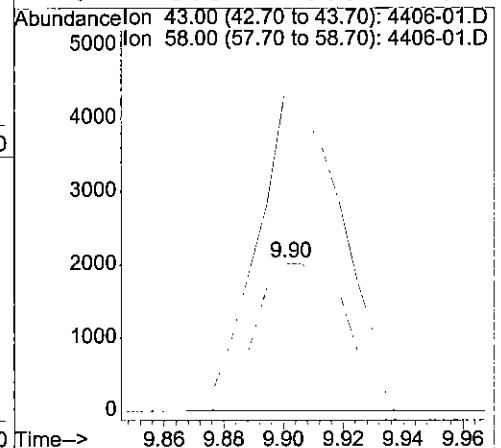
Tgt Ion: 61 Resp: 3915
 Ion Ratio Lower Upper
 61 100
 46 30.5 27.1 67.1
 0 0.0 0.0 0.0
 0 0.0 0.0 0.0

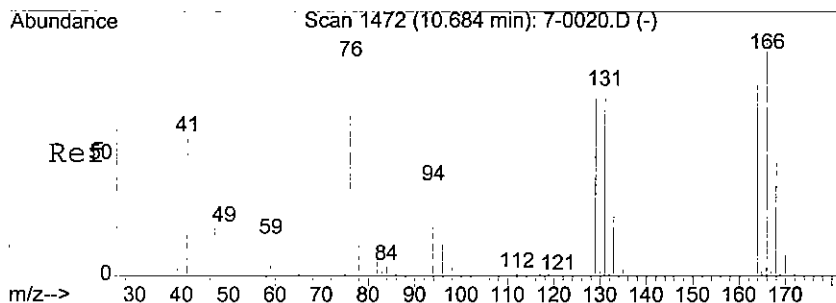


#62
 54 MIBK
 Concen: 0.51 ppb
 RT: 9.90 min Scan# 1335
 Delta R.T. 0.14 min
 Lab File: 4406-01.D
 Acq: 6 Aug 2003 5:05 pm

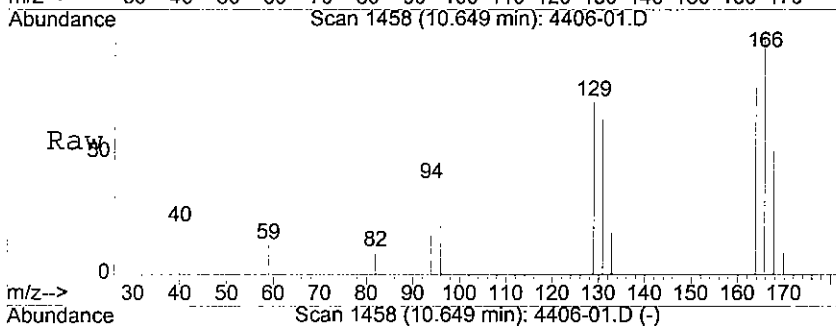


Tgt Ion: 43 Resp: 4204
 Ion Ratio Lower Upper
 43 100
 58 201.9 22.1 62.1#
 0 0.0 0.0 0.0
 0 0.0 0.0 0.0

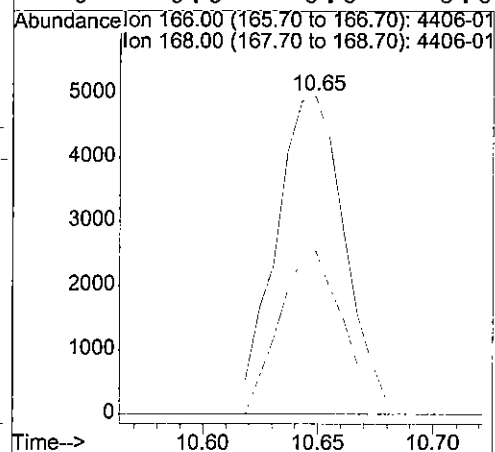
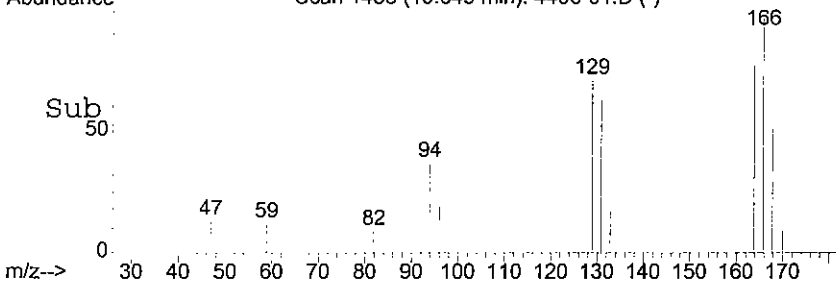




#67
 59 tetra-Cl-ethene
 Concen: 0.43 ppb
 RT: 10.65 min Scan# 1458
 Delta R.T. 0.01 min
 Lab File: 4406-01.D
 Acq: 6 Aug 2003 5:05 pm



Tgt Ion:	166	Resp:	10410
Ion Ratio	Lower	Upper	
166	100		
168	51.5	26.2	66.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: EB-2-7/30/03	Lab Sample ID: 03-4406-2	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3595	Prep. Date: 08/07/03	Anal. Date: 08/07/03
Data File Name: 4406-02	Prep. No: -	Anal. Time: 14:10
Methanol Vol: -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	< 0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	< 0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	< 0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	< 0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	< 0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	< 0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	< 0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	< 0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	< 10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	< 0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	< 0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	< 0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	< 0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	< 0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	< 0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	< 0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	< 0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	< 0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	< 0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	< 0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	< 0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	< 0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	< 0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	< 0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	< 0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	< 0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	< 0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	< 0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	< 0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	< 0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	< 0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	< 0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	< 0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	< 0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	< 0.5	U
38	HEXACHLOROBTADIENE	87-68-3	µg/L	0.5	< 0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	< 0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	<0.5	U
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	1,1,2,2-TRICHLORO-1,2,2,2-TRIFLUOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

			Control Limit, %	Surro. Rec.%
1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	460-00-4	70-129	95
2	1,2-DICHLOROETHANE-D4	17060-07-0	70-129	109
3	DIBROMOFLUOROMETHANE	1868-53-7	70-122	105
4	TOLUENE-D8	2037-26-5	73-129	98
# of out-of-control				0

Internal Standard

			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	97
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	98
3	FLUOROBENZENE	462-06-6	50-200	94
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: MW-3-2	Lab Sample ID: 03-4406-3	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: 4406-03	Prep. No: -	Anal. Time: 17:31
Methanol Vol: -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	<0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	<0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	<0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	<0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	<0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	<0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	<0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	<0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	<10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	0.6	
12	CHLOROBENZENE	108-90-7	µg/L	0.5	<0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	<0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	<0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	<0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	<0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	<0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	<0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	<0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	<0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	<0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	<0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	<0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	<0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	<0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	<0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	<0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	<0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	<0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	<0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	<0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	<0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	<0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	<0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	<0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	<0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	<0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	<0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	0.3	J
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	1,1,2,2-TETRACHLOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

Control Limit, %

Surro. Rec.%

1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	460-00-4
2	1,2-DICHLOROETHANE-D4	17060-07-0
3	DIBROMOFLUOROMETHANE	1868-53-7
4	TOLUENE-D8	2037-26-5

70-129

96

70-129

110

70-122

106

73-129

98

of out-of-control

0

Internal Standard

Control Limit, %

IS Rec.%

1	CHLOROBENZENE-D5	3114-55-4
2	1,4-DICHLOROBENZENE-D4	3855-82-1
3	FLUOROBENZENE	462-06-6

50-200

94

50-200

97

50-200

91

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: MW-3-3	Lab Sample ID: 03-4406-4	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: 4406-04	Prep. No: -	Anal. Time: 17:57
Methanol Vol. -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	< 0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	< 0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	< 0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	< 0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	< 0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	< 0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	< 0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	< 0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	< 10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	< 0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	< 0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	< 0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	< 0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	< 0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	< 0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	< 0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	< 0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	< 0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	< 0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	< 0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	< 0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	< 0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	< 0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	< 0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	< 0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	< 0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	< 0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	< 0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	< 0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	< 0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	< 0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	< 0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	< 0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	< 0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	< 0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	< 0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	< 0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	<0.5	U
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	112TRICHLORO-122TRIFLUOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

		Control Limit, %	Surro. Rec.%
1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	70-129	98
2	1,2-DICHLOROETHANE-D4	70-129	111
3	DIBROMOFLUOROMETHANE	70-122	106
4	TOLUENE-D8	73-129	99

of out-of-control

0

Internal Standard

		Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	50-200	93
2	1,4-DICHLOROBENZENE-D4	50-200	94
3	FLUOROBENZENE	50-200	90

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: MW-3-4	Lab Sample ID: 03-4406-5	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: 4406-05	Prep. No: -	Anal. Time: 18:23
Methanol Vol. -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	<0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	<0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	<0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	<0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	<0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	<0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	<0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	<0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	<10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	<0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	<0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	<0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	<0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	<0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	<0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	<0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	<0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	<0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	<0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	<0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	<0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	<0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	<0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	<0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	<0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	<0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	<0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	<0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	<0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	<0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	<0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	<0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	<0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	<0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	<0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	<0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	<0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	<0.5	U
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	1,1,2,2-TETRACHLOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

		Control Limit, %	Surro. Rec.%
1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	70-129	97
2	1,2-DICHLOROETHANE-D4	70-129	111
3	DIBROMOFLUOROMETHANE	70-122	107
4	TOLUENE-D8	73-129	98

of out-of-control

0

Internal Standard

		Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	50-200	93
2	1,4-DICHLOROETHANE-D4	50-200	95
3	FLUOROBENZENE	50-200	90

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
	Lab Sample ID: 03-4406-6	Received Date: 07/30/2003
Sample ID: MW-17-2	Sample Matrix: Water	Moisture %: -
Sample Type: Field Sample	Prep. Method: 5030	Instrument ID: GC/MS: A
Anal. Method: 524.2	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Batch No: 03G3570	Prep. No: -	Anal. Time: 18:50
Data File Name: 4406-06	Sample Amount: 25.0 mL	Dilution Factor: 1
Methanol Vol: -		
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	< 0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	< 0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	< 0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	< 0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	< 0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	< 0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	< 0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	< 0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	< 10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	0.7	
12	CHLOROBENZENE	108-90-7	µg/L	0.5	< 0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	< 0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	< 0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	0.6	
16	CHLOROMETHANE	74-87-3	µg/L	0.5	< 0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	< 0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	< 0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	< 0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	< 0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	< 0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	< 0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	< 0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	< 0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	< 0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	< 0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	< 0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	< 0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	< 0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	< 0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	< 0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	< 0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	< 0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	< 0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	< 0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	< 0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	< 0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	< 0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	3.4	
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	1,1,2-TRICHLORO-1,2,2,2-TETRAFLUOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

Control Limit, %

Surro. Rec.%

1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	460-00-4
2	1,2-DICHLOROETHANE-D4	17060-07-0
3	DIBROMOFLUOROMETHANE	1868-53-7
4	TOLUENE-D8	2037-26-5

70-129

96

70-129

109

70-122

106

73-129

98

of out-of-control

0

Internal Standard

Control Limit, %

IS Rec.%

1	CHLOROBENZENE-D5	3114-55-4
2	1,4-DICHLOROBENZENE-D4	3855-82-1
3	FLUOROBENZENE	462-06-6

50-200

93

50-200

94

50-200

89

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: MW-17-3	Lab Sample ID: 03-4406-7	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: 4406-07	Prep. No: -	Anal. Time: 19:16
Methanol Vol. -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	< 0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	< 0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	< 0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	< 0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	< 0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	< 0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	< 0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	< 0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	< 10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	13.0	
12	CHLOROBENZENE	108-90-7	µg/L	0.5	< 0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	< 0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	< 0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	3.6	
16	CHLOROMETHANE	74-87-3	µg/L	0.5	< 0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	< 0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	< 0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	< 0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	< 0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	< 0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	< 0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	< 0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	< 0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	< 0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	< 0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	< 0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	< 0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	< 0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	< 0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	< 0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	< 0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	< 0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	< 0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	< 0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	< 0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	< 0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	< 0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	0.4	J
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	3.8	
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	112TRICHLORO-122TRIFLUOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

Surrogates			Control Limit, %	Surro. Rec.%
1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL	460-00-4	70-129	95
2	1,2-DICHLOROETHANE-D4	17060-07-0	70-129	112
3	DIBROMOFLUOROMETHANE	1868-53-7	70-122	107
4	TOLUENE-D8	2037-26-5	73-129	99

of out-of-control

0

Internal Standard

Internal Standard			Control Limit, %	IS Rec. %
1	CHLOROBENZENE-D5	3114-55-4	50-200	93
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	96
3	FLUOROBENZENE	462-06-6	50-200	89

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: MW-17-4	Lab Sample ID: 03-4406-8	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: 4406-08	Prep. No: -	Anal. Time: 19:42
Methanol Vol. -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	< 0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	< 0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	< 0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	< 0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	< 0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	< 0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	< 0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	< 0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	< 10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	< 0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	< 0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	< 0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	< 0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	< 0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	< 0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	< 0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	< 0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	< 0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	< 0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	< 0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	< 0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	< 0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	< 0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	< 0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	< 0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	< 0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	< 0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	< 0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	< 0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	< 0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	< 0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	< 0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	< 0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	< 0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	< 0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	< 0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	< 0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	1	
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	112TRICHLORO-122TRIFLUOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

Control Limit, %

Surro. Rec. %

1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL	460-00-4
2	1,2-DICHLOROETHANE-D4	17060-07-0
3	DIBROMOFLUOROMETHANE	1868-53-7
4	TOLUENE-D8	2037-26-5

70-129

70-129

70-122

73-129

96

113

108

98

of out-of-control

0

Internal Standard

Control Limit, %

IS Rec. %

1	CHLOROBENZENE-D5	3114-55-4
2	1,4-DICHLOROBENZENE-D4	3855-82-1
3	FLUOROBENZENE	462-06-6

50-200

50-200

50-200

94

95

89

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: MW-19-1	Lab Sample ID: 03-4406-9	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: 4406-09	Prep. No: -	Anal. Time: 20:08
Methanol Vol. -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	< 0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	< 0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	< 0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	< 0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	< 0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	< 0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	< 0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	< 0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	< 10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	< 0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	< 0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	< 0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	< 0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	< 0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	< 0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	< 0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	< 0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	< 0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	< 0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	< 0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	< 0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	< 0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	< 0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	< 0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	< 0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	< 0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	< 0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	< 0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	< 0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	< 0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	< 0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	< 0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	< 0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	< 0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	< 0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	< 0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	< 0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	<0.5	U
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	1,1,2,2-TRICHLORO-1,2,2,2-TRIFLUOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

Control Limit, %

Surro. Rec. %

1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	460-00-4
2	1,2-DICHLOROETHANE-D4	17060-07-0
3	DIBROMOFLUOROMETHANE	1868-53-7
4	TOLUENE-D8	2037-26-5

70-129

96

70-129

114

70-122

108

73-129

98

of out-of-control

0

Internal Standard

Control Limit, %

IS Rec. %

1	CHLOROBENZENE-D5	3114-55-4
2	1,4-DICHLOROBENZENE-D4	3855-82-1
3	FLUOROBENZENE	462-06-6

50-200

93

50-200

95

50-200

88

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
	Lab Sample ID: 03-4406-10	Received Date: 07/30/2003
Sample ID: MW-19-2	Sample Matrix: Water	Moisture %: -
Sample Type: Field Sample	Prep. Method: 5030	Instrument ID: GC/MS: A
Anal. Method: 524.2	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Batch No: 03G3570	Prep. No: -	Anal. Time: 14:27
Data File Name: 4406-10	Sample Amount: 25.0 mL	Dilution Factor: 1
Methanol Vol: -		
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	<0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	<0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	0.4	J
5	BROMOFORM	75-25-2	µg/L	0.5	<0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	<0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	<0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	<0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	<0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	<10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	<0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	<0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	0.6	
14	CHLOROETHANE	75-00-3	µg/L	0.5	<0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	0.6	
16	CHLOROMETHANE	74-87-3	µg/L	0.5	<0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	<0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	<0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	<0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	<0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	<0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	<0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	<0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	<0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	<0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	<0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	<0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	<0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	<0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	<0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	<0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	<0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	<0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	<0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	<0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	<0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	<0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	<0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	1.2	
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	0.6	
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	1,1,2,2-TETRACHLOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

Control Limit, %

Surro. Rec.%

1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	460-00-4
2	1,2-DICHLOROETHANE-D4	17060-07-0
3	DIBROMOFLUOROMETHANE	1868-53-7
4	TOLUENE-D8	2037-26-5

70-129

96

70-129

108

70-122

105

73-129

98

of out-of-control

0

Internal Standard

Control Limit, %

IS Rec.%

1	CHLOROBENZENE-D5	3114-55-4
2	1,4-DICHLOROBENZENE-D4	3855-82-1
3	FLUOROBENZENE	462-06-6

50-200

96

50-200

97

50-200

92

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: MW-19-3	Lab Sample ID: 03-4406-11	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: 4406-11	Prep. No: -	Anal. Time: 20:34
Methanol Vol: -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	<0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	<0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	<0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	<0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	<0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	<0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	<0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	<0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	<10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	<0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	<0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	0.4	J
14	CHLOROETHANE	75-00-3	µg/L	0.5	<0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	<0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	<0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	<0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	<0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	<0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	<0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	<0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	<0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	<0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	<0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	<0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	<0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	<0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	<0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	<0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	<0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	<0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	<0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	<0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	<0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	<0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	<0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	<0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	<0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	1.7	
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	0.4	J
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	1,1,2,2-TETRACHLOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

		Control Limit, %	Surro. Rec.%
1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	70-129	96
2	1,2-DICHLOROETHANE-D4	70-129	110
3	DIBROMOFLUOROMETHANE	70-122	108
4	TOLUENE-D8	73-129	99

of out-of-control

0

Internal Standard

		Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	50-200	92
2	1,4-DICHLOROBENZENE-D4	50-200	94
3	FLUOROBENZENE	50-200	88

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: MW-19-4	Lab Sample ID: 03-4406-12	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: 4406-12	Prep. No: -	Anal. Time: 21:00
Methanol Vol: -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	<0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	<0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	<0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	<0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	<0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	<0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	<0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	<0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	<10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	<0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	<0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	<0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	<0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	1.0	
16	CHLOROMETHANE	74-87-3	µg/L	0.5	<0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	<0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	<0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	<0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	<0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	<0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	<0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	<0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	<0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	<0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	<0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	<0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	<0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	<0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	<0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	<0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	<0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	<0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	<0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	<0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	<0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	<0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	<0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	0.3	J
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	<0.5	U
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	1,1,2,2-TETRACHLOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

Control Limit, %

Surro. Rec.%

1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	460-00-4
2	1,2-DICHLOROETHANE-D4	17060-07-0
3	DIBROMOFLUOROMETHANE	1868-53-7
4	TOLUENE-D8	2037-26-5

70-129

96

70-129

114

70-122

108

73-129

98

of out-of-control

0

Internal Standard

Control Limit, %

IS Rec.%

1	CHLOROBENZENE-D5	3114-55-4
2	1,4-DICHLOROBENZENE-D4	3855-82-1
3	FLUOROBENZENE	462-06-6

50-200

92

50-200

96

50-200

88

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: MW-19-5	Lab Sample ID: 03-4406-13	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3570	Prep. Date: 08/06/03	Anal. Date: 08/06/03
Data File Name: 4406-13	Prep. No: -	Anal. Time: 21:26
Methanol Vol: -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Spurge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	<0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	<0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	<0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	<0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	<0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	<0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	<0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	<0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	<10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	<0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	<0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	<0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	<0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	<0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	<0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	<0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	<0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	<0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	<0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	<0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	<0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	<0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	<0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	<0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	<0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	<0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	<0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	<0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	<0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	<0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	<0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	<0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	<0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	<0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	<0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	<0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	<0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	<0.5	U
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	3.8	
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	<0.5	U
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	112TRICHLORO-122TRIFLUOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

		Control Limit, %	Surro. Rec.%
1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	70-129	96
2	1,2-DICHLOROETHANE-D4	70-129	113
3	DIBROMOFLUOROMETHANE	70-122	109
4	TOLUENE-D8	73-129	99
# of out-of-control			0

Internal Standard

		Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	50-200	92
2	1,4-DICHLOROENZENE-D4	50-200	95
3	FLUOROBENZENE	50-200	88
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 524.2

Client Name: GEOFON, Inc.	Project No: 04-4428.10	Collection Date: 07/30/2003
Project ID: JPL	Service ID: 34406	Collected by:
Sample ID: TB-2-7/30/03	Lab Sample ID: 03-4406-14	Received Date: 07/30/2003
Sample Type: Field Sample	Sample Matrix: Water	Moisture %: -
Anal. Method: 524.2	Prep. Method: 5030	Instrument ID: GC/MS: A
Batch No: 03G3595	Prep. Date: 08/07/03	Anal. Date: 08/07/03
Data File Name: 4406-14	Prep. No: -	Anal. Time: 13:43
Methanol Vol: -	Sample Amount: 25.0 mL	Dilution Factor: 1
Test Level: Low	Sparge Size: 25 mL	Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	< 0.5	U
2	BROMOBENZENE	108-86-1	µg/L	0.5	< 0.5	U
3	BROMOCHLOROMETHANE	74-97-5	µg/L	0.5	< 0.5	U
4	BROMODICHLOROMETHANE	75-27-4	µg/L	0.5	< 0.5	U
5	BROMOFORM	75-25-2	µg/L	0.5	< 0.5	U
6	BROMOMETHANE	74-83-9	µg/L	0.5	< 0.5	U
7	N-BUTYLBENZENE	104-51-8	µg/L	0.5	< 0.5	U
8	SEC-BUTYLBENZENE	135-98-8	µg/L	0.5	< 0.5	U
9	TERT-BUTYLBENZENE	98-06-6	µg/L	0.5	< 0.5	U
10	2-BUTANONE	78-93-3	µg/L	10	< 10	U
11	CARBON TETRACHLORIDE	56-23-5	µg/L	0.5	< 0.5	U
12	CHLOROBENZENE	108-90-7	µg/L	0.5	< 0.5	U
13	CHLORODIBROMOMETHANE	124-48-1	µg/L	0.5	< 0.5	U
14	CHLOROETHANE	75-00-3	µg/L	0.5	< 0.5	U
15	CHLOROFORM	67-66-3	µg/L	0.5	< 0.5	U
16	CHLOROMETHANE	74-87-3	µg/L	0.5	< 0.5	U
17	2-CHLOROTOLUENE	95-49-8	µg/L	0.5	< 0.5	U
18	4-CHLOROTOLUENE	106-43-4	µg/L	0.5	< 0.5	U
19	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	0.5	< 0.5	U
20	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	0.5	< 0.5	U
21	DIBROMOMETHANE	74-95-3	µg/L	0.5	< 0.5	U
22	1,2-DICHLOROBENZENE	95-50-1	µg/L	0.5	< 0.5	U
23	1,3-DICHLOROBENZENE	541-73-1	µg/L	0.5	< 0.5	U
24	1,4-DICHLOROBENZENE	106-46-7	µg/L	0.5	< 0.5	U
25	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	0.5	< 0.5	U
26	1,1-DICHLOROETHANE	75-34-3	µg/L	0.5	< 0.5	U
27	1,2-DICHLOROETHANE	107-06-2	µg/L	0.5	< 0.5	U
28	1,1-DICHLOROETHENE	75-35-4	µg/L	0.5	< 0.5	U
29	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	0.5	< 0.5	U
30	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	0.5	< 0.5	U
31	1,2-DICHLOROPROPANE	78-87-5	µg/L	0.5	< 0.5	U
32	1,3-DICHLOROPROPANE	142-28-9	µg/L	0.5	< 0.5	U
33	2,2-DICHLOROPROPANE	594-20-7	µg/L	0.5	< 0.5	U
34	1,1-DICHLOROPROPENE	563-58-6	µg/L	0.5	< 0.5	U
35	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	0.5	< 0.5	U
36	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	0.5	< 0.5	U
37	ETHYLBENZENE	100-41-4	µg/L	0.5	< 0.5	U
38	HEXACHLOROBUTADIENE	87-68-3	µg/L	0.5	< 0.5	U
39	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	0.5	< 0.5	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	P-ISOPROPYLTOLUENE	99-87-6	µg/L	0.5	<0.5	U
41	METHYLENE CHLORIDE	75-09-2	µg/L	0.5	2.3	
42	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	U
43	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	2	J
44	NAPHTHALENE	91-20-3	µg/L	0.5	<0.5	U
45	N-PROPYLBENZENE	103-65-1	µg/L	0.5	<0.5	U
46	STYRENE	100-42-5	µg/L	0.5	<0.5	U
47	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	0.5	<0.5	U
48	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.5	<0.5	U
49	TETRACHLOROETHENE	127-18-4	µg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
51	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	0.5	<0.5	U
52	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	0.5	<0.5	U
53	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	0.5	<0.5	U
54	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	0.5	<0.5	U
55	TRICHLOROETHENE	79-01-6	µg/L	0.5	<0.5	U
56	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	0.5	<0.5	U
57	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	0.5	<0.5	U
58	112TRICHLORO-122TRIFLUOROETHANE	76-13-1	µg/L	0.5	<0.5	U
59	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	0.5	<0.5	U
60	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	0.5	<0.5	U
61	VINYL CHLORIDE	75-01-4	µg/L	0.5	<0.5	U
62	O-XYLENE	95-47-6	µg/L	0.5	<0.5	U
63	M/P-XYLENE	108-38-3	µg/L	0.5	<0.5	U

Surrogates

		Control Limit, %	Surro. Rec.%
1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL)	70-129	96
2	1,2-DICHLOROETHANE-D4	70-129	109
3	DIBROMOFLUOROMETHANE	70-122	106
4	TOLUENE-D8	73-129	100

of out-of-control

0

Internal Standard

		Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	50-200	96
2	1,4-DICHLOROBENZENE-D4	50-200	95
3	FLUOROBENZENE	50-200	92

of out-of-control

0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank
D - Diluted

FORM-2A

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method 524.2

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

SDG Number: 034406

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3570

#	Client Sample No	Lab Sample ID	S1 % #	S2 % #	S3 % #	S4 % #	TOT OUT
1	03G3570-LCS-01	03G3570-LCS-01	93	96	97	95	0
2	MW-19-2MS	03-4406-10MS	97	95	97	99	0
3	MW-19-2MSD	03-4406-10MSD	95	94	97	96	0
4	03G3570-MB-01	03G3570-MB-01	94	105	104	98	0
5	MW-19-2	03-4406-10	96	108	105	98	0
6	DUPE-1-3Q03	03-4406-1	96	109	106	100	0
7	MW-3-2	03-4406-3	96	110	106	98	0
8	MW-3-3	03-4406-4	98	111	106	99	0
9	MW-3-4	03-4406-5	97	111	107	98	0
10	MW-17-2	03-4406-6	96	109	106	98	0
11	MW-17-3	03-4406-7	95	112	107	99	0
12	MW-17-4	03-4406-8	96	113	108	98	0
13	MW-19-1	03-4406-9	96	114	108	98	0
14	MW-19-3	03-4406-11	96	110	108	99	0
15	MW-19-4	03-4406-12	96	114	108	98	0
16	MW-19-5	03-4406-13	96	113	109	99	0
17							
18							
19							
20							
21							
22							
23							
24							
25							

QC Control Limit

S1 = 1-BROMO-4-FLUOROBENZENE (4-BROMOFL

70-129

S2 = 1,2-DICHLOROETHANE-D4

70-129

S3 = DIBROMOFLUOROMETHANE

70-122

S4 = TOLUENE-D8

73-129

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits

D - Surrogate diluted out

I - Matrix Interference

FORM-2A

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method 524.2

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 034406

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3595

#	Client Sample No	Lab Sample ID	S1 % #	S2 % #	S3 % #	S4 % #	TOT OUT
1	03G3595-LCS-01	03G3595-LCS-01	91	95	97	95	0
2	MW-20-4MS	03-4425-6MS	99	95	98	98	0
3	MW-20-4MSD	03-4425-6MSD	96	97	98	96	0
4	03G3595-MB-01	03G3595-MB-01	96	110	105	98	0
5	TB-2-7/30/03	03-4406-14	96	109	106	100	0
6	EB-2-7/30/03	03-4406-2	95	109	105	98	0
7							
8							
9							
10							
11							
12							
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14							
15							
16							
17							
18							
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20							
21							
22							
23							
24							
25							

QC Control Limit

S1 = 1-BROMO-4-FLUOROBENZENE (4-BROMOFL

70-129

S2 = 1,2-DICHLOROETHANE-D4

70-129

S3 = DIBROMOFLUOROMETHANE

70-122

S4 = TOLUENE-D8

73-129

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits

D - Surrogate diluted out

I - Matrix Interference

FORM-3A

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 524.2

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 34406

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3570

LCS Filename: G3570L01

Date Analyzed: 080603

Time Analyzed: 10:58

LCSD Filename: -

Date Analyzed: -

Time Analyzed: -

Spiked Components	Unit	Spike Added	Concentration		LCS Rec% #	QC Limit, % REC
			Unspiked	LCS		
BENZENE	µg/L	20	0	18.7	94	65-120
CHLOROBENZENE	µg/L	20	0	19.9	100	65-134
1,1-DICHLOROETHENE	µg/L	20	0	19.3	97	65-127
TOLUENE	µg/L	20	0	18.9	95	65-134
TRICHLOROETHENE	µg/L	20	0	19.6	98	67-122
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits

D - Spiked components diluted out

Comments: _____

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570L01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 10:58 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:16 2003
 Print Time : Thu Aug 07 16:16 2003
 Miscellaneous :

Sample : f=1
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplier: 1.000000

1649

ID	Component Name	R.T.	RT0	DRRT	Q1on	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards											
1	Fluorobenzene	7.65	7.63	0.003	96	70	829.058	10.00		0.02	
47	Chlorobenzene-d5	11.54	11.54	0.000	117	82	648.481	10.00		0.00	
62	1,4-Dichlorobenzene	13.84	13.84	0.000	152	150	336.853	10.00		0.00	
System Monitoring Compounds (Surrogate)											
27	Di-Br-F-Me (sur)	6.60	6.58	0.002	111	113	401.925	19.45		19.5	97.27%
29	1,2-Di-Cl-Et-d4 (	7.11	7.08	0.002	65	102	320.281	19.14		19.1	95.70%
55	toluene-d8	9.91	9.89	0.000	98	100	1552.603	19.00		19.0	94.99%
70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	516.744	18.55		18.5	92.73%

Target Compounds

Qvalue

<<< 11 : ISTD ID = 1 >>>											
3	di-Cl-di-F-methan	1.89	1.85	0.005	85	87	386.772	18.58		18.6	100
4	Chloromethane	2.11	2.07	0.005	50	52	288.661	16.34		16.3	99
2	F114	2.03	2.00	0.005	85	135	211.481	19.43		19.4	65
5	vinyl chloride	2.23	2.19	0.005	62	64	374.566	18.64		18.6	99
6	bromomethane	2.61	2.58	0.005	94	96	202.196	20.94		20.9	98
7	chloroethane	2.73	2.70	0.004	64	66	231.892	19.39		19.4	0
8	tri-Cl-F-methane	3.04	3.00	0.006	101	103	566.383	19.03		19.0	98
91	Acetonitrile X10	4.07	4.04	0.004	41	40	672.502	184.89		184.9	91
9	acrolein X10	3.52	3.48	0.006	56	55	421.614	214.50		214.5	0
11	acetone X10	3.73	3.69	0.006	43	58	590.390	312.35		312.4	0
12	ethyl ether X5	3.37	3.34	0.005	59	74	962.394	108.16		108.2	91
13	11-dichloroethene	3.64	3.60	0.005	61	96	459.322	19.33		19.3	97
14	Iodomethane	3.82	3.78	0.005	142	127	276.961	13.18		13.2	95
15	F-113	3.65	3.62	0.005	101	151	352.295	21.58		21.6	90
16	acrylonitrile X10	4.52	4.49	0.004	53	52	660.764	178.29		178.3	99
17	carbon disulfide	3.91	3.87	0.005	76	78	1134.786	18.78		18.8	99
94	Isopropyl Alcohol	4.12	4.01	0.014	45	43	94.825	182.31		182.3	100
18	methylene chlorid	4.22	4.19	0.005	84	49	387.645	18.37		18.4	98
19	t-12-di-Cl-ethene	4.58	4.55	0.005	96	61	412.931	18.44		18.4	89

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &ch Lab** EPA 524.2

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570L01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 10:58 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:16 2003
 Print Time : Thu Aug 07 16:16 2003
 Miscellaneous :

Sample : f=1
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

1650

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	t-Bu-Me-ether	4.60	4.56	0.005	73	57	723.626	19.41	19.4	95	?
95	tert butyl alcoho	4.58	4.47	0.014	59	57	175.900	181.43	181.4	100	m
94	allyl chloride	4.07	4.04	0.004	41	76	672.502	20.62	20.6	84	#?
21	11-dichloroethane	5.12	5.09	0.004	63	83	650.489	18.10	18.1	99	#?
97	propionitrile	6.03	5.99	0.004	54	51	24.160	17.37	17.4	100	#?
22	c-12-di-Cl-ethene	5.92	5.89	0.003	96	61	426.443	18.89	18.9	94	?
23	22-Dichloropropan	5.92	5.89	0.003	77	97	567.127	25.09	25.1	98	?
24	Br-Cl-methane	6.25	6.23	0.003	128	130	202.671	18.51	18.5	99	?
25	chloroform	6.37	6.35	0.003	83	85	681.339	20.12	20.1	98	?
26	tetrahydrofuranX5	6.35	6.32	0.003	42	72	247.033	90.73	90.7	94	?
98	Disopropyl ether	5.24	5.22	0.003	45	87	1038.030	18.76	18.8	99	?
99	ETBE	5.74	5.72	0.003	59	87	869.654	20.56	20.6	98	?
30	12-dichloroethane	7.22	7.20	0.003	64	62	119.548	20.45	20.5	94	?
32	vinyl acetate X5	5.20	5.17	0.004	43	86	2603.778	100.66	100.7	100	
92	Nitro Methane(X10	5.83	5.80	0.004	61	46	78.537	170.58	170.6	89	
33	2-butanoneMEK X10	5.95	5.92	0.004	43	72	780.638	223.55	223.5	97	
93	Ethyl Acetate x2	6.04	6.02	0.003	43	61	365.283	40.37	40.4	92	#?
34	111-trichloroetha	6.65	6.63	0.002	97	99	643.265	19.26	19.3	99	
35	11-Di-Cl-propene	6.91	6.88	0.003	75	110	527.206	20.89	20.9	88	?
36	benzene	7.21	7.19	0.003	78	52	1569.305	18.65	18.6	99	?
37	CCl4	6.91	6.89	0.003	117	119	610.792	19.83	19.8	100	?
100	Isobutyl alcohol	7.18	7.39	-0.029	43	42	69.131	181.08	181.1	95	
38	thiophene	7.53	7.51	0.002	84	58	819.019	19.58	19.6	98	
39	12-di-Cl-propane	8.56	8.54	0.002	63	76	349.704	18.57	18.6	98	
40	trichloroethene	8.25	8.23	0.002	130	132	512.874	19.55	19.6	99	
41	41 dibromomethane	8.73	8.71	0.002	174	172	222.717	18.65	18.6	99	
101	TAME	7.41	7.39	0.002	73	43	775.576	21.15	21.1	97	
42	Br-di-Cl-methane	8.96	8.95	0.002	83	85	490.146	19.88	19.9	97	
43	Me-methacrylate	8.76	8.75	0.002	69	100	175.207	18.28	18.3	91	
44	2-ClEt-Vi-ether10	9.38	9.37	0.000	63	43	253.354	120.88	120.9	96	
45	c-13-di-Cl-propen	9.56	9.55	0.002	75	110	557.530	20.37	20.4	94	
46	t-1,3-dichloropro	10.25	10.24	0.000	75	110	459.119	21.10	21.1	93	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570L01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 10:58 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:16 2003
 Print Time : Thu Aug 07 16:16 2003
 Miscellaneous :

Sample : f=1
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

1651

ID	Component Name	R.T.	RT0	DRRT	Q Ion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
<<< I2 : ISTD ID = 47 >>>											
48	112-tri-Cl-Et	10.46	10.45	0.000	97	83	280.687	17.93	17.9	95	
49	13-di-Cl-propane	10.65	10.64	0.000	76	78	445.844	18.06	18.1	99	?
50	Et methacrylate	10.38	10.37	0.000	69	99	378.020	19.24	19.2	94	
51	di-Br-Cl-methane	10.91	10.90	0.000	129	127	377.245	19.20	19.2	99	
52	bromoform	12.42	12.41	0.000	173	174	217.124	18.07	18.1	100	
53	1,4-dichlorobutan	12.68	12.67	0.000	55	41	404.967	17.62	17.6	94	
54	MIBK	9.77	9.76	0.000	43	58	177.627	18.81	18.8	93	
56	toluene	9.99	9.98	0.000	91	92	1772.523	18.87	18.9	98	
57	2-hexanone X5	10.76	10.75	0.000	43	58	618.728	96.52	96.5	93	
58	12-dibromoethane	11.03	11.03	0.000	107	109	279.292	18.09	18.1	97	
59	tetra-Cl-ethene	10.65	10.64	0.001	166	168	532.385	18.97	19.0	98	?
60	chlorobenzene	11.58	11.57	0.000	112	77	1216.753	19.91	19.9	90	?
61	1112-tetra-Cl-Et	11.66	11.66	0.000	131	133	437.002	18.28	18.3	99	
<<< I3 : ISTD ID = 62 >>>											
63	1-chlorohexane	11.56	11.56	0.000	93	55	228.027	20.76	20.8	97	?
64	Et-Bz	11.70	11.69	0.000	91	106	2049.986	19.45	19.4	97	
65	m/p-Xylenes X2	11.82	11.82	0.000	91	106	3133.238	39.32	39.3	96	
66	styrene	12.24	12.23	0.000	104	78	1213.518	20.03	20.0	93	?
67	o-xylene	12.22	12.22	0.000	91	106	1615.942	20.21	20.2	96	?
68	1122-Tetra-Cl-Et	12.87	12.87	0.000	83	85	300.598	16.89	16.9	99	
69	123-tri-Cl-Pr	12.91	12.91	0.000	110	97	92.413	17.35	17.3	99	?
71	isopropylbenzene	12.60	12.59	0.000	105	120	2150.727	21.00	21.0	97	
72	bromobenzene	12.89	12.89	0.000	156	158	524.501	19.07	19.1	99	?
92	t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	57.531	19.01	19.0	85	
73	n-propylbenzene	13.00	12.99	0.000	120	78	656.167	20.46	20.5	93	
74	2-Cl-Toluene	13.08	13.08	0.000	126	128	566.637	19.99	20.0	98	
75	4-Cl-Toluene	13.19	13.18	0.000	126	128	558.195	19.36	19.4	97	?
76	135-tri-Me-Benzen	13.16	13.16	0.000	105	120	1823.479	20.68	20.7	97	?
77	4-iso-Pr-toluene	13.81	13.81	0.000	119	134	2070.421	21.03	21.0	98	?
78	124-tri-Me-Benzen	13.52	13.51	0.000	105	120	1858.274	20.24	20.2	96	
79	tert-butylbenzene	13.47	13.47	0.000	119	91	1711.749	20.33	20.3	94	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570L01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 10:58 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:16 2003
 Print Time : Thu Aug 07 16:16 2003
 Miscellaneous :

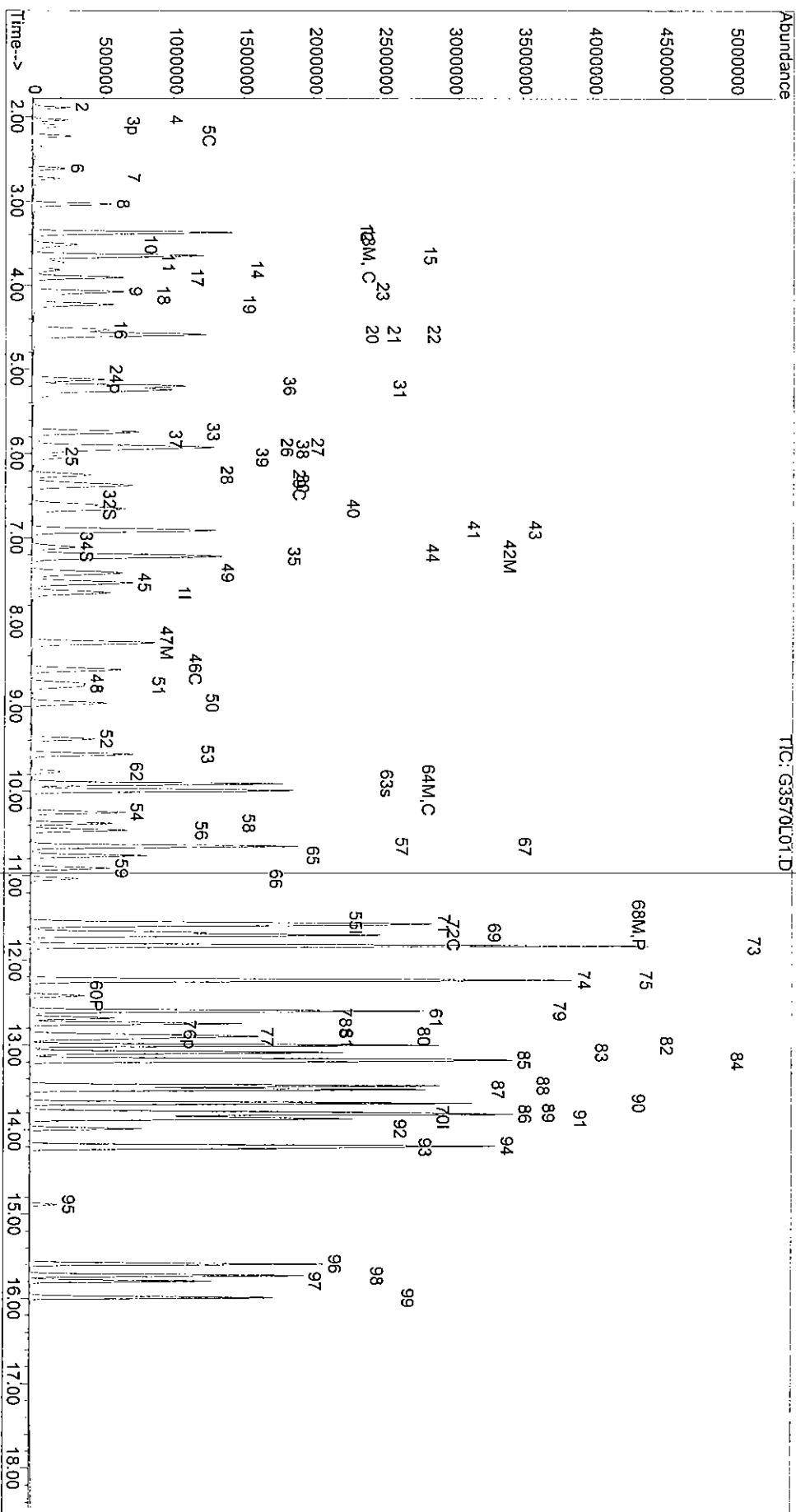
Sample : f=1
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

ID	Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	13-DCB	13.79	13.78	0.000	146	148	1082.237	18.71	18.7	100	?
81	sec-butylbenzene	13.68	13.68	0.000	105	134	2476.919	20.91	20.9	96	
82	14-DCB	13.87	13.87	0.000	146	148	1069.277	19.45	19.4	99	
83	Cl-benzyl	13.98	13.98	0.000	126	91	148.810	26.71	26.7	74	#
84	12-DCB	14.21	14.21	0.000	146	148	952.061	18.49	18.5	100	?
85	n-butylbenzene	14.18	14.18	0.000	134	91	581.049	20.12	20.1	84	#?
86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	66.828	18.43	18.4	99	
87	124-tri-Cl-Bz	15.58	15.58	0.000	180	182	719.650	21.58	21.6	99	
88	naphthalene	15.79	15.78	0.000	128	129	1140.815	18.86	18.9	99	
89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	401.414	19.89	19.9	98	
90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	617.610	20.64	20.6	98	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570L01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 10:58 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:16 2003
 Print Time : Thu Aug 07 16:16 2003
 Miscellaneous :

Sample : F=1
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplier: 1.000000



FORM-3A

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 524.2

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 34406

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3570

MS Filename: G3570M01

Date Analyzed: 080603

Time Analyzed: 11:24

MSD Filename: G3570N01

Date Analyzed: 080603

Time Analyzed: 11:50

MS Sample No: MW-19-2

Sample Lab ID: 03-4406-10

Spiked Components	Unit	Spike Added	Concentration		MS Rec% #	QC Limit, % REC
			Unspiked	MS		
BENZENE	µg/L	20	0	19.0	95	65-121
CHLOROBENZENE	µg/L	20	0	20.4	102	65-134
1,1-DICHLOROETHENE	µg/L	20	0	19.9	100	65-127
TOLUENE	µg/L	20	0	19.6	98	65-134
TRICHLOROETHENE	µg/L	20	0.6	20.7	101	65-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, %	
						RPD	REC
BENZENE	µg/L	20	18.7	94	1	28	65-121
CHLOROBENZENE	µg/L	20	20.0	100	2	35	65-134
1,1-DICHLOROETHENE	µg/L	20	19.2	96	4	31	65-127
TOLUENE	µg/L	20	19.1	96	2	35	65-134
TRICHLOROETHENE	µg/L	20	20.3	99	2	30	65-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits

D - Spiked components diluted out

Comments: _____

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570M01.D Sample : f=1 \$4406-10
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 6 11:24 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 07 16:37 2003 Multiplr: 1.000000
 Print Time : Thu Aug 07 16:37 2003
 Miscellaneous :

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards											
1	Fluorobenzene	7.65	7.63	0.003	96	70	818.407	10.00		0.02	
47	Chlorobenzene-d5	11.54	11.54	0.000	117	82	629.647	10.00		0.00	
62	1,4-Dichlorobenzene	13.84	13.84	0.000	152	150	320.116	10.00		0.00	
System Monitoring Compounds (Surrogate)											
27	Di-Br-F-Me (sur)	6.60	6.58	0.002	111	113	395.180	19.38	19.4	96.88%	
29	1,2-Di-Cl-Et-d4 (	7.11	7.08	0.002	65	102	312.435	18.91	18.9	94.57%	
55	toluene-d8	9.91	9.89	0.000	98	100	1563.228	19.70	19.7	98.50%	
70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	513.833	19.41	19.4	97.03%	

Target Compounds

<<< I1 : ISTD ID = 1 >>>

Qvalue

3	di-Cl-di-F-methan	1.89	1.85	0.005	85	87	387.686	18.87	18.9	98	
4	Chloromethane	2.11	2.07	0.005	50	52	300.422	17.28	17.3	99	
2	F114	2.03	2.00	0.005	85	135	219.161	20.40	20.4	45	
5	vinyl chloride	2.23	2.19	0.005	62	64	379.169	19.11	19.1	98	
6	bromomethane	2.61	2.58	0.005	94	96	193.368	20.29	20.3	100	
7	chloroethane	2.73	2.70	0.004	64	66	232.699	19.71	19.7	0	
8	tri-Cl-F-methane	3.03	3.00	0.005	101	103	577.143	19.64	19.6	100	
91	Acetonitrile X10	4.07	4.04	0.004	41	40	667.803	185.99	186.0	90	
9	acrolein X10	3.52	3.48	0.006	56	55	350.172	178.29	178.3	100	
11	acetone X10	3.73	3.69	0.005	43	58	394.980	202.06	202.1	0	
12	ethyl ether X5	3.37	3.34	0.005	59	74	947.897	107.90	107.9	90	
13	11-dichloroethene	3.64	3.60	0.005	61	96	465.759	19.85	19.9	97	
14	Iodomethane	3.82	3.78	0.005	142	127	313.299	15.11	15.1	94	
15	F-113	3.65	3.62	0.005	101	151	356.573	22.15	22.2	0	
16	acrylonitrile X10	4.53	4.49	0.005	53	52	645.495	176.43	176.4	98	
17	carbon disulfide	3.90	3.87	0.004	76	78	1155.610	19.38	19.4	100	
94	Isopropyl Alcohol	4.11	4.01	0.014	45	43	92.079	179.40	179.4	100	
18	methylene chlorid	4.22	4.19	0.005	84	49	385.171	18.49	18.5	99	
19	t-12-di-Cl-ethene	4.58	4.55	0.005	96	61	422.032	19.09	19.1	93	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570M01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 11:24 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:37 2003
 Print Time : Thu Aug 07 16:37 2003
 Miscellaneous :

Sample : f=1 \$4406-10
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

1656

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	t-Bu-Me-ether	4.60	4.56	0.005	73	57	711.843	19.35	19.3	96	?
95	Tert butyl alcoho	4.57	4.47	0.014	59	57	195.820	201.52	201.5	100	m
94	allyl chloride	4.07	4.04	0.004	41	76	667.803	20.74	20.7	87	#?
21	11-dichloroethane	5.12	5.09	0.004	63	83	664.945	18.74	18.7	99	#?
97	propionitrile	6.03	5.99	0.005	54	51	24.190	17.62	17.6	100	#?
22	c-12-di-Cl-ethene	5.92	5.89	0.003	96	61	433.755	19.46	19.5	92	?
23	22-Dichloropropan	5.92	5.89	0.004	77	97	602.161	27.06	27.1	97	?
24	Br-Cl-methane	6.25	6.23	0.003	128	130	197.698	18.29	18.3	99	?
25	chloroform	6.38	6.35	0.003	83	85	700.081	20.95	21.0	96	?
26	tetrahydrofuranX5	6.35	6.32	0.003	42	72	237.954	88.53	88.5	96	?
98	Diisopropyl ether	5.24	5.22	0.003	45	87	1031.281	18.88	18.9	99	?
99	ETBE	5.74	5.72	0.003	59	87	857.158	20.53	20.5	97	?
30	12-dichloroethane	7.22	7.20	0.003	64	62	117.148	20.30	20.3	99	?
32	vinyl acetate X5	5.20	5.17	0.004	43	86	2518.423	98.63	98.6	99	?
92	Nitro Methane(X10	5.83	5.80	0.004	61	46	82.059	180.55	180.6	93	?
33	2-butanoneMEK X10	5.95	5.92	0.003	43	72	643.632	185.33	185.3	99	?
93	Ethyl Acetate x2	6.04	6.02	0.003	43	61	336.349	37.65	37.6	88	#?
34	111-trichloroetha	6.65	6.63	0.002	97	99	648.014	19.65	19.7	100	?
35	11-Di-Cl-propene	6.91	6.88	0.003	75	110	544.504	21.86	21.9	89	?
36	benzene	7.21	7.19	0.003	78	52	1578.529	19.00	19.0	99	?
37	CCl4	6.91	6.89	0.003	117	119	616.820	20.29	20.3	100	?
100	Isobutyl alcohol	7.18	7.39	-0.028	43	42	65.228	173.52	173.5	94	m
38	thiophene	7.53	7.51	0.003	84	58	815.107	19.74	19.7	98	08/01/03
39	12-di-Cl-propane	8.56	8.54	0.002	63	76	350.089	18.83	18.8	97	
40	trichloroethene	8.24	8.23	0.002	130	132	535.655	20.69	20.7	100	
41	dibromomethane	8.73	8.71	0.002	174	172	218.482	18.53	18.5	100	
101	TAME	7.41	7.39	0.002	73	43	765.098	21.13	21.1	96	
42	Br-di-Cl-methane	8.96	8.95	0.002	83	85	493.283	20.27	20.3	100	
43	Me-methacrylate	8.76	8.75	0.002	69	100	174.261	18.41	18.4	89	
44	2-ClEt-Vi-ether10	9.38	9.37	0.000	63	43	1.799	16.17	16.2	91	
45	c-13-di-Cl-propen	9.56	9.55	0.002	75	110	554.944	20.54	20.5	94	
46	t-1,3-dichloropro	10.25	10.24	0.000	75	110	453.041	21.09	21.1	92	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570M01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 11:24 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:37 2003
 Print Time : Thu Aug 07 16:37 2003
 Miscellaneous :

Sample : f=1 \$4406-10
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

1657

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
<<< I2 : ISTD ID = 47 >>>											
48	48 112-tri-Cl-Et	10.46	10.45	0.000	97	83	270.543	17.80	17.8	95	
49	49 13-di-Cl-propane	10.65	10.64	0.000	76	78	433.770	18.10	18.1	100	?
50	50 Et methacrylate	10.37	10.37	0.000	69	99	373.208	19.55	19.6	94	
51	51 di-Br-Cl-methane	10.91	10.90	0.000	129	127	375.795	19.69	19.7	99	
52	52 bromoform	12.42	12.41	0.000	173	174	210.873	18.08	18.1	100	
53	53 1,4-dichlorobutan	12.68	12.67	0.000	55	41	394.357	17.67	17.7	95	
54	54 MIBK	9.77	9.76	0.000	43	58	177.321	19.34	19.3	94	
56	56 toluene	9.99	9.98	0.001	91	92	1788.013	19.61	19.6	99	
57	57 2-hexanone X5	10.76	10.75	0.000	43	58	590.577	94.89	94.9	93	
58	58 12-dibromoethane	11.03	11.03	0.000	107	109	273.199	18.22	18.2	96	
59	59 tetra-Cl-ethene	10.65	10.64	0.001	166	168	567.337	20.82	20.8	97	?
60	60 chlorobenzene	11.58	11.57	0.000	112	77	1210.016	20.40	20.4	91	?
61	61 1112-tetra-Cl-Et	11.66	11.66	0.000	131	133	430.058	18.53	18.5	100	
<<< I3 : ISTD ID = 62 >>>											
63	63 1-chlorohexane	11.56	11.56	0.000	93	55	232.950	22.31	22.3	98	?
64	64 Et-Bz	11.70	11.69	0.000	91	106	2057.974	20.55	20.5	95	
65	65 m/p-Xylenes X2	11.82	11.82	0.000	91	106	3149.569	41.59	41.6	96	
66	66 styrene	12.24	12.23	0.000	104	78	1215.000	21.10	21.1	94	?
67	67 o-xylene	12.22	12.22	0.000	91	106	1619.998	21.32	21.3	96	?
68	68 1122-Tetra-Cl-Et	12.87	12.87	0.000	83	85	290.598	17.18	17.2	99	
69	69 123-tri-Cl-Pr	12.91	12.91	0.000	110	97	90.851	17.95	17.9	100	?
71	71 isopropylbenzene	12.60	12.59	0.000	105	120	2176.362	22.36	22.4	98	
72	72 bromobenzene	12.89	12.89	0.000	156	158	520.513	19.91	19.9	99	?
92	92 t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	56.306	19.54	19.5	87	?
73	73 n-propylbenzene	13.00	12.99	0.000	120	78	664.393	21.79	21.8	92	
74	74 2-Cl-Toluene	13.08	13.08	0.000	126	128	565.288	20.99	21.0	99	
75	75 4-Cl-Toluene	13.19	13.18	0.000	126	128	558.935	20.40	20.4	98	?
76	76 135-tri-Me-Benzen	13.16	13.16	0.000	105	120	1837.614	21.93	21.9	98	?
77	77 4-iso-Pr-toluene	13.81	13.81	0.000	119	134	2091.440	22.35	22.4	99	?
78	78 124-tri-Me-Benzen	13.52	13.51	0.000	105	120	1857.509	21.29	21.3	96	
79	79 tert-butylbenzene	13.48	13.47	0.000	119	91	1766.177	22.07	22.1	92	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

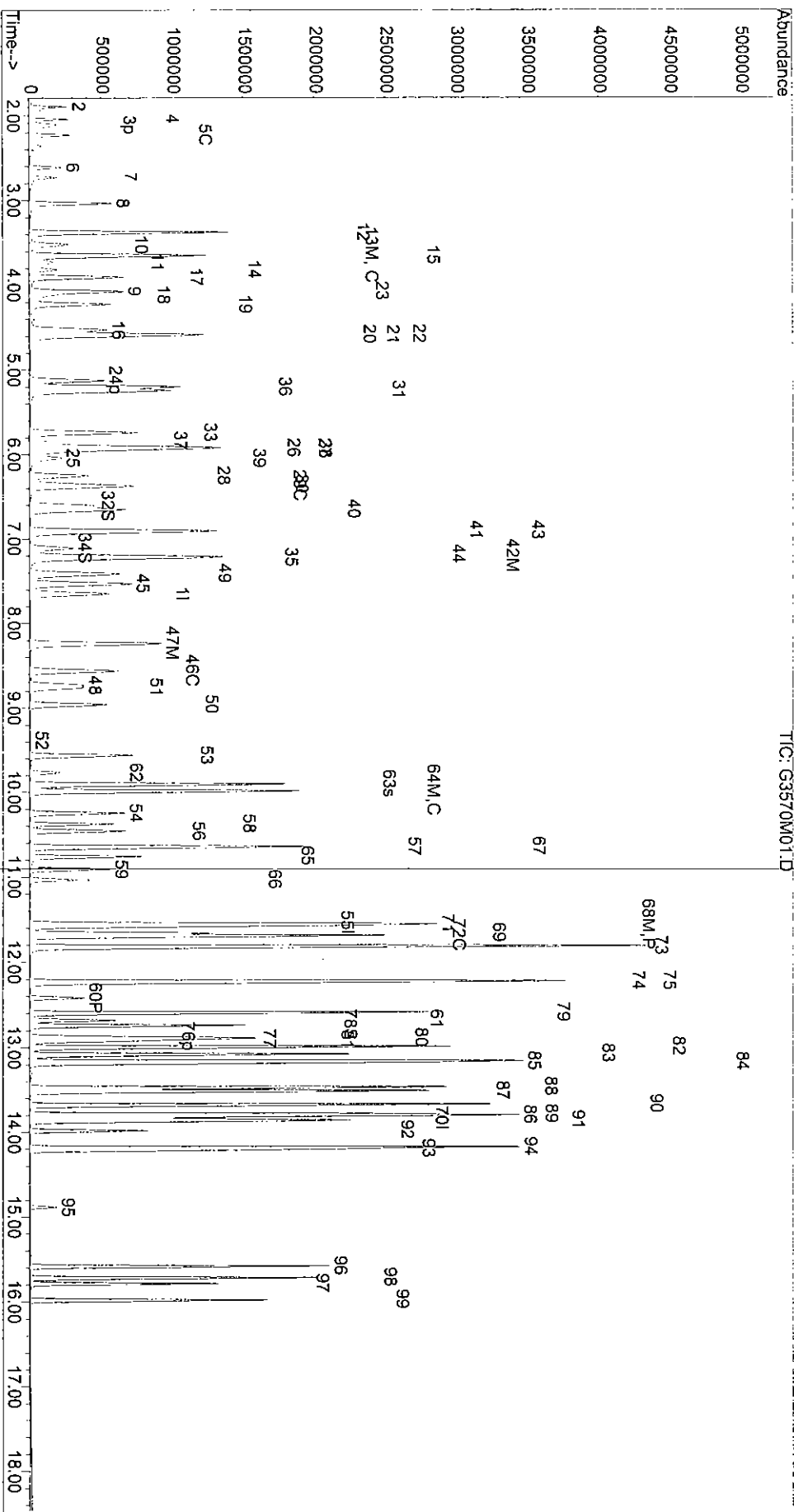
Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570M01.D Sample : F=1 \$4406-10
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 6 11:24 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 07 16:37 2003 Multiplr: 1.000000
 Print Time : Thu Aug 07 16:37 2003
 Miscellaneous :

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	13-DCB	13.79	13.78	0.000	146	148	1084.025	19.73	19.7	98	?
81	sec-butylbenzene	13.68	13.68	0.000	105	134	2516.146	22.35	22.3	97	
82	14-DCB	13.87	13.87	0.000	146	148	1072.521	20.53	20.5	98	
83	Cl-benzy1	13.98	13.98	0.000	126	91	151.983	28.70	28.7	74	#
84	12-DCB	14.21	14.21	0.000	146	148	942.941	19.27	19.3	100	?
85	n-butylbenzene	14.18	14.18	0.000	134	91	588.270	21.43	21.4	83	#?
86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	63.973	18.57	18.6	98	
87	124-tri-Cl-Bz	15.58	15.58	0.000	180	182	716.012	22.60	22.6	99	
88	naphthalene	15.79	15.78	0.000	128	129	1140.769	19.84	19.8	99	
89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	401.166	20.91	20.9	96	
90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	602.461	21.19	21.2	98	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

EPA 524.2

```
Sample : f=1 $4406-10
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000
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Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570N01.D Sample : f=1 \$4406-10
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 6 11:50 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 07 16:38 2003 Multiplr: 1.000000
 Print Time : Thu Aug 07 16:39 2003
 Miscellaneous :

0691

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards											
1	Fluorobenzene	7.65	7.63	0.003	96	70	849.231	10.00		0.02	
47	Chlorobenzene-d5	11.54	11.54	0.000	117	82	658.725	10.00		0.00	
62	1,4-Dichlorobenzene	13.84	13.84	0.000	152	150	333.596	10.00		0.00	
System Monitoring Compounds (Surrogate)											
27	Di-Br-F-Me (surr)	6.60	6.58	0.002	111	113	409.478	19.35	19.3	96.74%	
29	1,2-Di-Cl-Et-d4 (	7.11	7.08	0.002	65	102	320.745	18.71	18.7	93.56%	
55	toluene-d8	9.91	9.89	0.000	98	100	1588.996	19.14	19.1	95.70%	
70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	523.664	18.98	19.0	94.89%	

Target Compounds

Qvalue

<<< I1 : ISTD ID = 1 >>>											
3	di-Cl-di-F-methan	1.89	1.85	0.005	85	87	394.097	18.49	18.5	98	
4	Chloromethane	2.11	2.07	0.005	50	52	305.776	16.93	16.9	98	
2	F114	2.03	2.00	0.005	85	135	228.443	20.49	20.5	59	
5	vinyl chloride	2.22	2.19	0.004	62	64	390.710	18.98	19.0	100	
6	bromomethane	2.61	2.58	0.004	94	96	186.314	18.84	18.8	97	
7	chloroethane	2.73	2.70	0.004	64	66	217.438	17.75	17.7	0	
8	tri-Cl-F-methane	3.03	3.00	0.005	101	103	608.145	19.94	19.9	98	
91	Acetonitrile X10	4.07	4.04	0.004	41	40	663.007	177.95	178.0	95	
9	acrolein X10	3.51	3.48	0.004	56	55	346.352	169.30	169.3	100	
11	acetone X10	3.70	3.69	0.002	43	58	393.647	192.88	192.9	98	
12	ethyl ether X5	3.37	3.34	0.005	59	74	974.997	106.88	106.9	91	
13	11-dichloroethene	3.64	3.60	0.005	61	96	467.025	19.18	19.2	94	
14	Iodomethane	3.82	3.78	0.005	142	127	333.399	15.49	15.5	95	
15	F-113	3.65	3.62	0.005	101	151	362.546	21.69	21.7	86	
16	acrylonitrile X10	4.52	4.49	0.003	53	52	647.709	170.61	170.6	99	
17	carbon disulfide	3.90	3.87	0.004	76	78	1181.706	19.09	19.1	100	
94	Isopropyl Alcohol	3.97	4.01	-0.005	45	43	107.610	201.51	201.5	100	
18	methylene chlorid	4.22	4.19	0.004	84	49	392.791	18.15	18.2	99	
19	t-12-di-Cl-ethene	4.58	4.55	0.004	96	61	427.052	18.61	18.6	93	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570N01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 11:50 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:38 2003
 Print Time : Thu Aug 07 16:39 2003
 Miscellaneous :

Sample : f=1 \$4406-10
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

1991

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	t-Bu-Me-ether	4.59	4.56	0.004	73	57	737.424	19.31	19.3	95	?
95	tert butyl alcoho	4.44	4.47	-0.003	59	57	175.114	177.01	177.0	100	#
94	allyl chloride	4.07	4.04	0.004	41	76	663.007	19.85	19.8	87	#?
21	11-dichloroethane	5.12	5.09	0.004	63	83	674.477	18.32	18.3	100	#
97	propionitrile	6.01	5.99	0.002	54	51	27.380	19.22	19.2	100	#
22	c-12-di-Cl-ethene	5.92	5.89	0.003	96	61	443.398	19.17	19.2	95	?
23	22-Dichloropropan	5.92	5.89	0.003	77	97	589.057	25.46	25.5	97	?
24	Br-Cl-methane	6.25	6.23	0.003	128	130	204.350	18.22	18.2	97	?
25	chloroform	6.37	6.35	0.003	83	85	710.801	20.50	20.5	97	?
26	tetrahydrofuranX5	6.34	6.32	0.002	42	72	248.108	88.96	89.0	94	?
98	Diisopropyl ether	5.24	5.22	0.003	45	87	1055.266	18.62	18.6	99	?
99	ETBE	5.74	5.72	0.003	59	87	894.783	20.65	20.7	97	?
30	12-dichloroethane	7.22	7.20	0.003	64	62	119.412	19.94	19.9	99	?
32	vinyl acetate X5	5.19	5.17	0.003	43	86	2552.832	96.35	96.3	99	?
92	Nitro Methane(X10	5.80	5.80	0.000	61	46	93.712	198.71	198.7	83	?
33	2-butanoneMEK X10	5.93	5.92	0.002	43	72	674.253	187.18	187.2	99	?
93	Ethyl Acetate x2	6.04	6.02	0.002	43	61	343.107	37.01	37.0	88	#
34	11-trichloroetha	6.65	6.63	0.002	97	99	659.102	19.26	19.3	100	?
35	11-Di-Cl-propene	6.91	6.88	0.003	75	110	549.572	21.26	21.3	91	?
36	benzene	7.21	7.19	0.003	78	52	1613.673	18.72	18.7	99	?
37	CCl4	6.91	6.89	0.003	117	119	625.111	19.82	19.8	100	?
100	Isobutyl alcohol	7.13	7.39	-0.034	43	42	69.584	178.11	178.1	95	?
38	thiophene	7.53	7.51	0.002	84	58	835.853	19.51	19.5	96	?
39	12-di-Cl-propane	8.56	8.54	0.002	63	76	358.098	18.57	18.6	95	?
40	trichloroethene	8.24	8.23	0.002	130	132	544.105	20.25	20.3	100	?
41	dibromomethane	8.73	8.71	0.002	174	172	224.990	18.39	18.4	98	?
101	TAME	7.41	7.39	0.002	73	43	785.601	20.91	20.9	97	?
42	Br-di-Cl-methane	8.96	8.95	0.002	83	85	502.759	19.90	19.9	99	?
43	Me-methacrylate	8.76	8.75	0.000	69	100	182.226	18.54	18.5	96	?
44	2-ClEt-Vi-ether10	9.57	9.37	0.026	63	43	2.482	16.42	16.4	28	?
45	c-13-di-Cl-propen	9.56	9.55	0.002	75	110	567.684	20.25	20.3	93	?
46	t-1,3-dichloropro	10.25	10.24	0.000	75	110	465.931	20.90	20.9	93	?

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570N01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 11:50 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:38 2003
 Print Time : Thu Aug 07 16:39 2003
 Miscellaneous :

Sample : f=1 \$4406-10
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplier: 1.000000

1662

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
<<< I2 : ISTD ID = 47 >>>											
48	112-tri-Cl-Et	10.46	10.45	0.000	97	83	281.031	17.68	17.7	94	
49	13-di-Cl-propane	10.65	10.64	0.000	76	78	447.236	17.84	17.8	99	?
50	Et methacrylate	10.38	10.37	0.000	69	99	386.799	19.38	19.4	92	
51	di-Br-Cl-methane	10.91	10.90	0.000	129	127	386.043	19.34	19.3	99	
52	bromoform	12.42	12.41	0.000	173	174	218.875	17.94	17.9	100	
53	1,4-dichlorobutan	12.68	12.67	0.000	55	41	405.471	17.37	17.4	94	
54	MTBK	9.77	9.76	0.000	43	58	183.070	19.08	19.1	93	
56	toluene	9.99	9.98	0.000	91	92	1818.567	19.06	19.1	100	
57	2-hexanone X5	10.76	10.75	0.000	43	58	601.311	92.35	92.3	94	
58	12-dibromoethane	11.03	11.03	0.000	107	109	280.147	17.86	17.9	97	
59	tetra-Cl-ethene	10.64	10.64	0.000	166	168	576.581	20.23	20.2	97	?
60	chlorobenzene	11.58	11.57	0.000	112	77	1241.103	19.99	20.0	91	?
61	1112-tetra-Cl-Et	11.66	11.66	0.000	131	133	442.550	18.23	18.2	99	
<<< I3 : ISTD ID = 62 >>>											
63	1-chlorohexane	11.56	11.56	0.000	93	55	236.575	21.75	21.7	95	?
64	Et-Bz	11.70	11.69	0.000	91	106	2097.228	20.09	20.1	96	
65	m/p-Xylenes X2	11.82	11.82	0.000	91	106	3210.758	40.69	40.7	96	
66	styrene	12.24	12.23	0.000	104	78	1235.322	20.59	20.6	94	?
67	o-xylene	12.22	12.22	0.000	91	106	1660.322	20.97	21.0	97	?
68	1122-Tetra-Cl-Et	12.87	12.87	0.000	83	85	303.802	17.24	17.2	97	
69	123-tri-Cl-Pr	12.91	12.91	0.000	110	97	92.740	17.58	17.6	99	?
71	isopropylbenzene	12.60	12.59	0.000	105	120	2206.904	21.76	21.8	98	
72	bromobenzene	12.89	12.89	0.000	156	158	528.440	19.40	19.4	98	?
92	t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	58.214	19.40	19.4	84	?
73	n-propylbenzene	13.00	12.99	0.000	120	78	673.968	21.22	21.2	94	
74	2-Cl-Toluene	13.08	13.08	0.000	126	128	572.674	20.40	20.4	99	
75	4-Cl-Toluene	13.18	13.18	0.000	126	128	567.887	19.89	19.9	99	?
76	135-tri-Me-Benzen	13.16	13.16	0.000	105	120	1868.934	21.41	21.4	97	?
77	4-iso-Pr-toluene	13.81	13.81	0.000	119	134	2116.361	21.70	21.7	99	?
78	124-tri-Me-Benzen	13.51	13.51	0.000	105	120	1897.967	20.87	20.9	97	
79	tert-butylbenzene	13.47	13.47	0.000	119	91	1753.747	21.03	21.0	94	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570N01.D Sample : f=1 \$4406-10
 Method : C:\MSDCHEM\1\METHODS\E524A002.M Inst. : GCMS-A
 Acq. Time : Aug 6 11:50 2003 RF via : Multiple Level Calibration
 Method Update: Thu Jul 24 12:40 2003 Operator: zou
 Quant. Time : Aug 07 16:38 2003 Multiplr: 1.000000
 Print Time : Thu Aug 07 16:39 2003
 Miscellaneous :

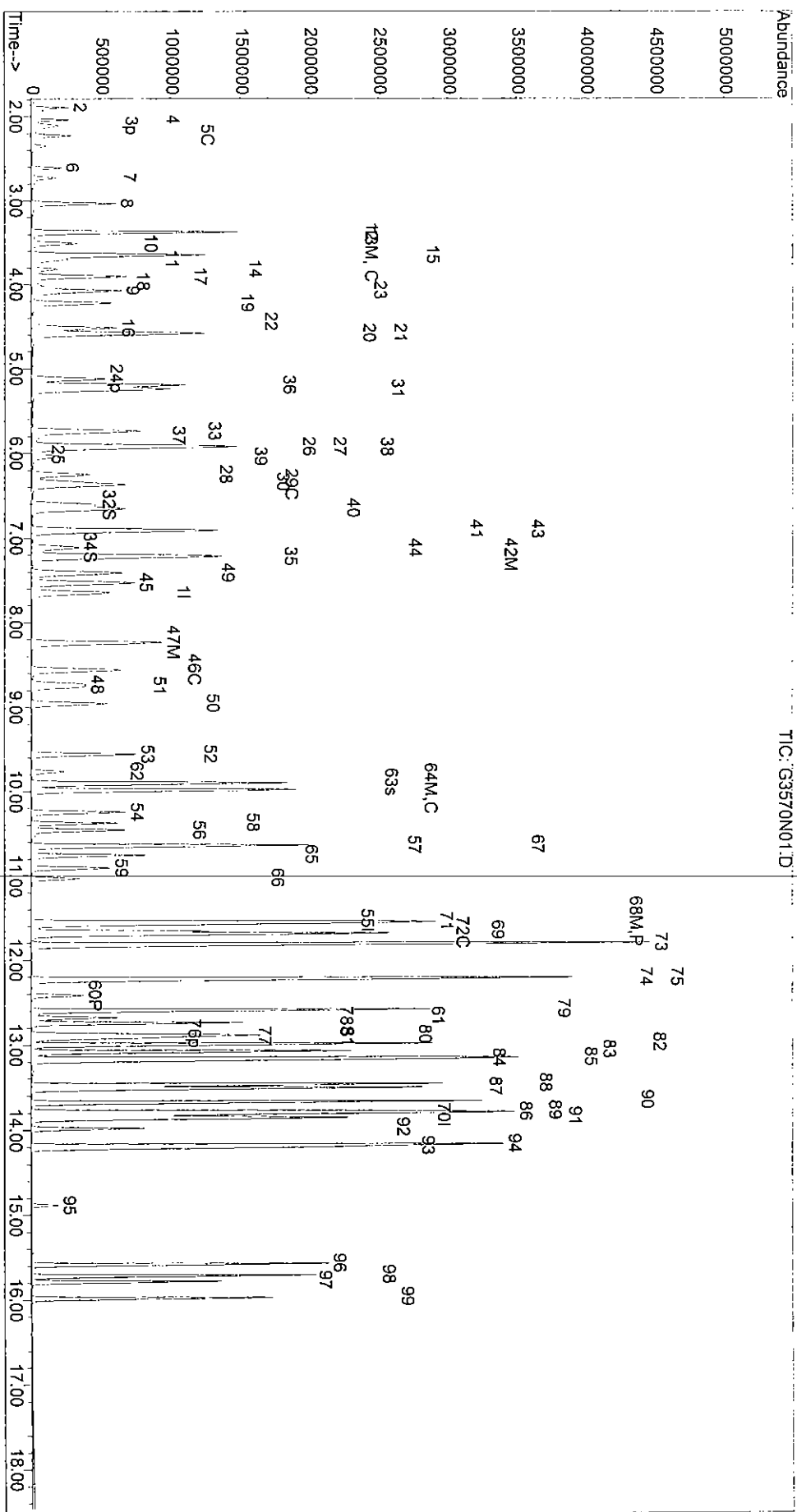
1663

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	13-DCB	13.79	13.78	0.000	146	148	1105.373	19.30	19.3	99	?
81	sec-butylbenzene	13.68	13.68	0.000	105	134	2553.289	21.76	21.8	97	
82	14-DCB	13.87	13.87	0.000	146	148	1085.645	19.94	19.9	98	
83	Cl-benzyl	13.98	13.98	0.000	126	91	153.711	27.85	27.9	76	#
84	12-DCB	14.21	14.21	0.000	146	148	958.123	18.79	18.8	100	?
85	n-butylbenzene	14.18	14.18	0.000	134	91	596.111	20.84	20.8	86	#?
86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	67.895	18.91	18.9	97	
87	124-tri-Cl-Bz	15.58	15.58	0.000	180	182	733.770	22.22	22.2	99	
88	naphthalene	15.79	15.78	0.000	128	129	1190.681	19.87	19.9	100	
89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	404.645	20.24	20.2	99	
90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	619.950	20.92	20.9	100	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570\G3570N01.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 11:50 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:38 2003
 Print Time : Thu Aug 07 16:39 2003
 Miscellaneous :

Sample : f=1 \$4406-10
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000



Data Filename: C:\MSDCHEM\1\DATA\03G3570\4406-10.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 14:27 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:40 2003
 Print Time : Thu Aug 07 16:40 2003
 Miscellaneous :

Sample : f=1 ms
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000

1665

ID	Component Name	R.T.	RT0	DRRT	Qion	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards											
1	Fluorobenzene	7.65	7.63	0.003	96	70	724.079	10.00		0.02	
47	Chlorobenzene-d5	11.55	11.54	0.000	117	82	585.864	10.00		0.00	
62	1,4-Dichlorobenzene	13.84	13.84	0.000	152	150	303.150	10.00		0.00	
System Monitoring Compounds (Surrogate)											
27	Di-Br-F-Me (sur)	6.60	6.58	0.002	111	113	378.166	20.96	21.0	104.78%	
29	1,2-Di-Cl-Et-d4 (	7.11	7.08	0.002	65	102	315.257	21.57	21.6	107.85%	
55	toluene-d8	9.91	9.89	0.000	98	100	1440.816	19.51	19.5	97.55%	
70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	478.728	19.09	19.1	95.46%	

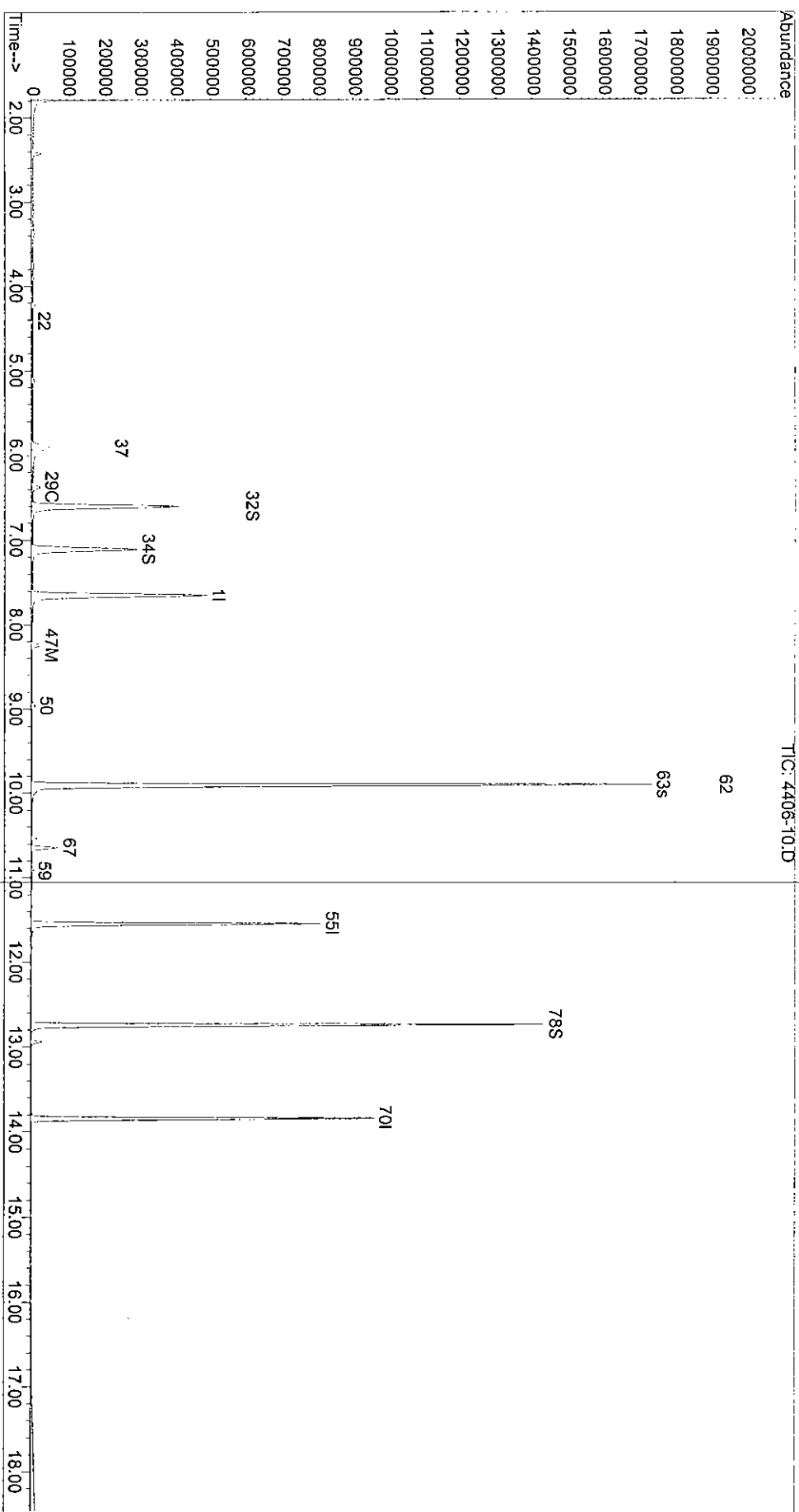
Target Compounds

<<< I1 : ISTD ID = 1 >>>											
95	95 Tert butyl alcohol	4.41	4.47	-0.007	59	57	0.123	24.29	24.3	100	#
25	25 chloroform	6.37	6.35	0.003	83	85	25.826	0.62	0.6	96	#
92	92 Nitro Methane(x10	5.92	5.80	0.016	61	46	6.688	16.63	16.6	10	#
40	40 trichloroethene	8.24	8.23	0.002	130	132	13.788	0.60	0.6	98	#
42	42 Br-di-Cl-methane	8.96	8.95	0.002	83	85	9.216	0.38	0.4	100	#
<<< I2 : ISTD ID = 47 >>>											
51	51 di-Br-Cl-methane	10.92	10.90	0.001	129	127	4.730	0.62	0.6	92	#
54	54 MIBK	9.90	9.76	0.012	43	58	4.231	0.50	0.5	1	#
59	59 tetra-Cl-ethene	10.64	10.64	0.000	166	168	29.349	1.16	1.2	96	#

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G3570\4406-10.D
 Method : C:\MSDCHEM\1\METHODS\E524A002.M
 Acq. Time : Aug 6 14:27 2003
 Method Update: Thu Jul 24 12:40 2003
 Quant. Time : Aug 07 16:40 2003
 Print Time : Thu Aug 07 16:40 2003
 Miscellaneous :

Sample : f=1 ms
 Inst. : GCMS-A
 RF via : Multiple Level Calibration
 Operator: zou
 Multiplr: 1.000000



FORM-3A

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 524.2

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 34406

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3595

LCS Filename: G3595L01

Date Analyzed: 080703

Time Analyzed: 11:06

LCSD Filename: -

Date Analyzed: -

Time Analyzed: -

Spiked Components	Unit	Spike Added	Concentration		LCS Rec% #	QC Limit, % REC
			Unspiked	LCS		
BENZENE	µg/L	20	0	18.6	93	65-120
CHLOROBENZENE	µg/L	20	0	20.1	101	65-134
1,1-DICHLOROETHENE	µg/L	20	0	19.4	97	65-127
TOLUENE	µg/L	20	0	19.1	96	65-134
TRICHLOROETHENE	µg/L	20	0	19.5	98	67-122
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits

D - Spiked components diluted out

Comments: _____

FORM-3A

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 524.2

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 34406

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3595

MS Filename: G3595M01

Date Analyzed: 080703

Time Analyzed: 11:32

MSD Filename: G3595N01

Date Analyzed: 080703

Time Analyzed: 11:58

MS Sample No: MW-20-4

Sample Lab ID: 03-4425-6

Spiked Components	Unit	Spike Added	Concentration		MS Rec% #	QC Limit, % REC
			Unspiked	MS		
BENZENE	µg/L	20	0	18.8	94	65-121
CHLOROBENZENE	µg/L	20	0	20.5	103	65-134
1,1-DICHLOROETHENE	µg/L	20	0	19.5	98	65-127
TOLUENE	µg/L	20	0	19.4	97	65-134
TRICHLOROETHENE	µg/L	20	0	19.8	99	65-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, %	
						RPD	REC
BENZENE	µg/L	20	18.9	95	1	28	65-121
CHLOROBENZENE	µg/L	20	20.3	102	1	35	65-134
1,1-DICHLOROETHENE	µg/L	20	19.2	96	2	31	65-127
TOLUENE	µg/L	20	19.3	97	0	35	65-134
TRICHLOROETHENE	µg/L	20	19.7	99	0	30	65-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits

D - Spiked components diluted out

Comments: _____

FORM-4A
Applied P & Ch Laboratory
Method Blank Summary for Method 524.2

Client Name: GEOFON, Inc.

Case No:

Project ID: JPL

Sample ID: 03G3570-MB-01

Lab Sample ID: 03G3570-MB-01

Contract No:

SAS No:

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3570

Data File Name: G3570K01

Heated Purge: (Y/N) N

Lab Code: APCL

Service ID: 34406

Analysis Date: 08/06/03

Analysis Time: 13:08

Instrument ID: GC/MS: A

GC Column: HP-VOC

Column ID: 0.20 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	03G3570-LCS-01	03G3570-LCS-01	Lab Control Spike	G3570L01	08/06/03	10:58
2	MW-19-2MS	03-4406-10MS	Matrix Spike	G3570M01	08/06/03	11:24
3	MW-19-2MSD	03-4406-10MSD	Matrix Spike Duplicate	G3570N01	08/06/03	11:50
4	MW-19-2	03-4406-10	Field Sample	4406-10	08/06/03	14:27
5	DUPE-1-3Q03	03-4406-1	Field Sample	4406-01	08/06/03	17:05
6	MW-3-2	03-4406-3	Field Sample	4406-03	08/06/03	17:31
7	MW-3-3	03-4406-4	Field Sample	4406-04	08/06/03	17:57
8	MW-3-4	03-4406-5	Field Sample	4406-05	08/06/03	18:23
9	MW-17-2	03-4406-6	Field Sample	4406-06	08/06/03	18:50
10	MW-17-3	03-4406-7	Field Sample	4406-07	08/06/03	19:16
11	MW-17-4	03-4406-8	Field Sample	4406-08	08/06/03	19:42
12	MW-19-1	03-4406-9	Field Sample	4406-09	08/06/03	20:08
13	MW-19-3	03-4406-11	Field Sample	4406-11	08/06/03	20:34
14	MW-19-4	03-4406-12	Field Sample	4406-12	08/06/03	21:00
15	MW-19-5	03-4406-13	Field Sample	4406-13	08/06/03	21:26
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						

FORM-4A

Applied P & Ch Laboratory

Method Blank Summary for Method 524.2

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 34406

Project ID: JPL

Project No: 04-4428.10

Analysis Date: 08/07/03

Sample Matrix: Water

Analysis Time: 13:17

Sample ID: 03G3595-MB-01

Batch No: 03G3595

Instrument ID: GC/MS: A

Lab Sample ID: 03G3595-MB-01

Data File Name: G3595K01

GC Column: HP-VOC

Heated Purge: (Y/N) N

Column ID: 0.20 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	03G3595-LCS-01	03G3595-LCS-01	Lab Control Spike	G3595L01	08/07/03	11:06
2	MW-20-4MS	03-4425-6MS	Matrix Spike	G3595M01	08/07/03	11:32
3	MW-20-4MSD	03-4425-6MSD	Matrix Spike Duplicate	G3595N01	08/07/03	11:58
4	TB-2-7/30/03	03-4406-14	Field Sample	4406-14	08/07/03	13:43
5	EB-2-7/30/03	03-4406-2	Field Sample	4406-02	08/07/03	14:10
6						
7						
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28						

Data File : C:\MSDCHEM\1\DATA\03G3415\G3415P01.D
 Acq On : 22 Jul 2003 5:08 pm

Sample : ##03G3415, w 50 ng

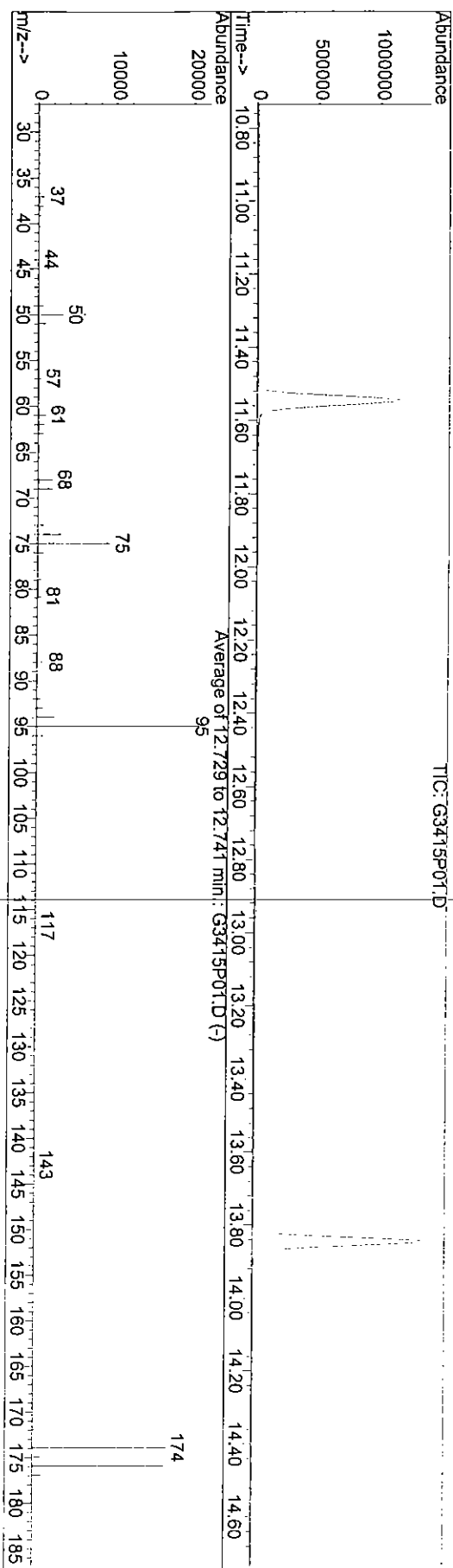
Misc :

MS Integration Params: Iscint.p

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)

Title : **Applied P & ch Lab** EPA 524.2

Vial: 2
 Operator: zou
 Inst : GCMS-A
 Multiplr: 1.00



Spectrum Information: Average of 12.729 to 12.741 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	15	40	15.3	3208	PASS
75	95	30	60	44.1	9259	PASS
95	95	100	100	100.0	20984	PASS
96	95	5	9	7.0	1467	PASS
173	174	0.00	2	0.7	120	PASS
174	95	50	100	81.3	17069	PASS
175	174	5	9	7.1	1218	PASS
176	174	95	101	98.6	16830	PASS
177	176	5	9	7.6	1277	PASS