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:	04-442810	Collection Date:	02/03/2003
Project ID:	JPL	Service ID:	31369	Collected by:	
		Lab Sample ID:	03G1286-MB-01	Received Date:	02/03/2003
Sample ID:	**03G1286-MB-01**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	524.2	Prep. Date:	02/03/03	Anal. Date:	02/03/03
Batch No:	03G1286	Prep. No:	–	Anal. Time:	13:21
Data File Name:	G1286K02	Sample Amount:	25 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	0.73	<0.73	U
7	2-BUTANONE	78-93-3	μg/L	10	<10	U
8	N-BUTYLBENZENE	104-51-8	μg/L	0.5	<0.5	U
9	SEC-BUTYLBENZENE	135-98-8	μg/L	0.5	<0.5	U
10	TERT-BUTYLBENZENE	98-06-6	μg/L	0.5	<0.5	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	0.54	<0.54	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	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	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	10	<10	U
43	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	µg/L	1	<1	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 (PCE)	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 (TCE)	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	TRICHLOROTRIFLUOROETHANE	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	70-129	110
2	DIBROMOFLUOROMETHANE	1868-53-7	70-129	99
3	1,2-DICHLOROETHANE-D4	17060-07-0	70-122	85
4	TOLUENE-D8	2037-26-5	73-129	107
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	88
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	91
3	FLUOROBENZENE	462-06-6	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
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
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:	04-442810	Collection Date:	01/29/2003
Project ID:	JPL	Service ID:	31369	Collected by:	
		Lab Sample ID:	03-1369-1	Received Date:	01/29/2003
Sample ID:	**EB-1-1/29/03**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	524.2	Prep. Date:	02/03/03	Anal. Date:	02/03/03
Batch No:	03G1286	Prep. No:	–	Anal. Time:	13:50
Data File Name:	1369-01A	Sample Amount:	25 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	0.73 [a]	<0.73	U
7	2-BUTANONE	78-93-3	μg/L	10	<10	U
8	N-BUTYLBENZENE	104-51-8	μg/L	0.5	<0.5	U
9	SEC-BUTYLBENZENE	135-98-8	μg/L	0.5	<0.5	U
10	TERT-BUTYLBENZENE	98-06-6	μg/L	0.5	<0.5	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	0.54 [a]	<0.54	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	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	4-METHYL-2-PENTANONE (MIBK)	108-10-1	μg/L	10	<10	U
43	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	μg/L	1	<1	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 (PCE)	127-18-4	μg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	μg/L	0.5	0.3	J
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 (TCE)	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	TRICHLOROTRIFLUOROETHANE	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	104
2	DIBROMOFLUOROMETHANE	1868-53-7	70-129	94
3	1,2-DICHLOROETHANE-D4	17060-07-0	70-122	81
4	TOLUENE-D8	2037-26-5	73-129	103
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	113
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	110
3	FLUOROBENZENE	462-06-6	50-200	108
# of out-of-control				0

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

[a]MDL reported.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 524.2

Client Name:	GEOFON, Inc.	Project No:	04-442810	Collection Date:	01/29/2003
Project ID:	JPL	Service ID:	31369	Collected by:	
		Lab Sample ID:	03-1369-2	Received Date:	01/29/2003
Sample ID:	**MW-21-1**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	524.2	Prep. Date:	02/03/03	Anal. Date:	02/03/03
Batch No:	03G1286	Prep. No:	–	Anal. Time:	14:18
Data File Name:	1369-02A	Sample Amount:	25 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
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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	0.73 [a]	<0.73	U
7	2-BUTANONE	78-93-3	μg/L	10	<10	U
8	N-BUTYLBENZENE	104-51-8	μg/L	0.5	<0.5	U
9	SEC-BUTYLBENZENE	135-98-8	μg/L	0.5	<0.5	U
10	TERT-BUTYLBENZENE	98-06-6	μg/L	0.5	<0.5	U
11	CARBON TETRACHLORIDE	56-23-5	μg/L	0.5	<0.5	U
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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
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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
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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	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	4-METHYL-2-PENTANONE (MIBK)	108-10-1	μg/L	10	<10	U
43	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	μg/L	1	<1	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 (PCE)	127-18-4	μg/L	0.5	0.7	
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 (TCE)	79-01-6	μg/L	0.5	3.6	
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	TRICHLOROTRIFLUOROETHANE	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	106
2	DIBROMOFLUOROMETHANE	1868-53-7	70-129	94
3	1,2-DICHLOROETHANE-D4	17060-07-0	70-122	81
4	TOLUENE-D8	2037-26-5	73-129	105
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	118
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	122
3	FLUOROBENZENE	462-06-6	50-200	119
# of out-of-control				0

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

[a]MDL reported.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
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:	04-442810	Collection Date:	01/29/2003
Project ID:	JPL	Service ID:	31369	Collected by:	
		Lab Sample ID:	03-1369-3	Received Date:	01/29/2003
Sample ID:	**MW-21-2**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	524.2	Prep. Date:	02/03/03	Anal. Date:	02/03/03
Batch No:	03G1286	Prep. No:	–	Anal. Time:	14:47
Data File Name:	1369-03A	Sample Amount:	25 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	0.73 [a]	<0.73	U
7	2-BUTANONE	78-93-3	μg/L	10	<10	U
8	N-BUTYLBENZENE	104-51-8	μg/L	0.5	<0.5	U
9	SEC-BUTYLBENZENE	135-98-8	μg/L	0.5	<0.5	U
10	TERT-BUTYLBENZENE	98-06-6	μg/L	0.5	<0.5	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	0.54 [a]	<0.54	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	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	4-METHYL-2-PENTANONE (MIBK)	108-10-1	μg/L	10	<10	U
43	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	μg/L	1	<1	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 (PCE)	127-18-4	μg/L	0.5	1.1	
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 (TCE)	79-01-6	μg/L	0.5	0.5	
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	TRICHLOROTRIFLUOROETHANE	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	111
2	DIBROMOFLUOROMETHANE	1868-53-7	70-129	98
3	1,2-DICHLOROETHANE-D4	17060-07-0	70-122	85
4	TOLUENE-D8	2037-26-5	73-129	106
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	115
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	117
3	FLUOROBENZENE	462-06-6	50-200	118
# of out-of-control				0

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

[a]MDL reported.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 524.2

Client Name:	GEOFON, Inc.	Project No:	04-442810	Collection Date:	01/29/2003
Project ID:	JPL	Service ID:	31369	Collected by:	
		Lab Sample ID:	03-1369-4	Received Date:	01/29/2003
Sample ID:	**MW-21-3**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	524.2	Prep. Date:	02/03/03	Anal. Date:	02/03/03
Batch No:	03G1286	Prep. No:	–	Anal. Time:	15:15
Data File Name:	1369-04A	Sample Amount:	25 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	0.73 [a]	<0.73	U
7	2-BUTANONE	78-93-3	μg/L	10	<10	U
8	N-BUTYLBENZENE	104-51-8	μg/L	0.5	<0.5	U
9	SEC-BUTYLBENZENE	135-98-8	μg/L	0.5	<0.5	U
10	TERT-BUTYLBENZENE	98-06-6	μg/L	0.5	<0.5	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	0.9	
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	0.54 [a]	<0.54	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	0.3	J
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	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	4-METHYL-2-PENTANONE (MIBK)	108-10-1	μg/L	10	<10	U
43	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	μg/L	1	<1	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 (PCE)	127-18-4	μg/L	0.5	1.9	
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 (TCE)	79-01-6	μg/L	0.5	1.1	
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	TRICHLOROTRIFLUOROETHANE	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	104
2	DIBROMOFLUOROMETHANE	1868-53-7	70-129	94
3	1,2-DICHLOROETHANE-D4	17060-07-0	70-122	83
4	TOLUENE-D8	2037-26-5	73-129	102
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	122
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	122
3	FLUOROBENZENE	462-06-6	50-200	122
# of out-of-control				0

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

[a]MDL reported.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 524.2

Client Name:	GEOFON, Inc.	Project No:	04-442810	Collection Date:	01/29/2003
Project ID:	JPL	Service ID:	31369	Collected by:	
		Lab Sample ID:	03-1369-5	Received Date:	01/29/2003
Sample ID:	**MW-21-4**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	524.2	Prep. Date:	02/03/03	Anal. Date:	02/03/03
Batch No:	03G1286	Prep. No:	–	Anal. Time:	21:40
Data File Name:	1369-05B	Sample Amount:	25 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	0.73 [a]	<0.73	U
7	2-BUTANONE	78-93-3	μg/L	10	<10	U
8	N-BUTYLBENZENE	104-51-8	μg/L	0.5	<0.5	U
9	SEC-BUTYLBENZENE	135-98-8	μg/L	0.5	<0.5	U
10	TERT-BUTYLBENZENE	98-06-6	μg/L	0.5	<0.5	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	1.7	
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	0.54 [a]	<0.54	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	0.7	
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	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	4-METHYL-2-PENTANONE (MIBK)	108-10-1	μg/L	10	<10	U
43	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	μg/L	1	<1	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 (PCE)	127-18-4	μg/L	0.5	5.2	
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 (TCE)	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	TRICHLOROTRIFLUOROETHANE	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	DIBROMOFLUOROMETHANE	1868-53-7	70-129	90
3	1,2-DICHLOROETHANE-D4	17060-07-0	70-122	81
4	TOLUENE-D8	2037-26-5	73-129	94
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	142
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	145
3	FLUOROBENZENE	462-06-6	50-200	142
# of out-of-control				0

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

[a]MDL reported.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 524.2

Client Name:	GEOFON, Inc.	Project No:	04-442810	Collection Date:	01/29/2003
Project ID:	JPL	Service ID:	31369	Collected by:	
		Lab Sample ID:	03-1369-6	Received Date:	01/29/2003
Sample ID:	**MW-21-5**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	524.2	Prep. Date:	02/03/03	Anal. Date:	02/03/03
Batch No:	03G1286	Prep. No:	–	Anal. Time:	16:12
Data File Name:	1369-06A	Sample Amount:	25 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	0.73 [a]	<0.73	U
7	2-BUTANONE	78-93-3	μg/L	10	<10	U
8	N-BUTYLBENZENE	104-51-8	μg/L	0.5	<0.5	U
9	SEC-BUTYLBENZENE	135-98-8	μg/L	0.5	<0.5	U
10	TERT-BUTYLBENZENE	98-06-6	μg/L	0.5	<0.5	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	2.5	
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	0.54 [a]	<0.54	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	2.0	
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	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	4-METHYL-2-PENTANONE (MIBK)	108-10-1	μg/L	10	<10	U
43	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	μg/L	1	<1	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 (PCE)	127-18-4	μg/L	0.5	9.6	
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 (TCE)	79-01-6	μg/L	0.5	0.7	
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	TRICHLOROTRIFLUOROETHANE	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	114
2	DIBROMOFLUOROMETHANE	1868-53-7	70-129	101
3	1,2-DICHLOROETHANE-D4	17060-07-0	70-122	93
4	TOLUENE-D8	2037-26-5	73-129	108
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	139
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	127
3	FLUOROBENZENE	462-06-6	50-200	141
# of out-of-control				0

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

[a]MDL reported.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 524.2

Client Name:	GEOFON, Inc.	Project No:	04-442810	Collection Date:	01/29/2003
Project ID:	JPL	Service ID:	31369	Collected by:	
		Lab Sample ID:	03-1369-7	Received Date:	01/29/2003
Sample ID:	**SOURCE BLANK-1**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	524.2	Prep. Date:	02/03/03	Anal. Date:	02/03/03
Batch No:	03G1286	Prep. No:	–	Anal. Time:	16:40
Data File Name:	1369-07B	Sample Amount:	25 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	0.73 [a]	<0.73	U
7	2-BUTANONE	78-93-3	μg/L	10	<10	U
8	N-BUTYLBENZENE	104-51-8	μg/L	0.5	<0.5	U
9	SEC-BUTYLBENZENE	135-98-8	μg/L	0.5	<0.5	U
10	TERT-BUTYLBENZENE	98-06-6	μg/L	0.5	<0.5	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	0.54 [a]	<0.54	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	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	4-METHYL-2-PENTANONE (MIBK)	108-10-1	μg/L	10	<10	U
43	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	μg/L	1	<1	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 (PCE)	127-18-4	μg/L	0.5	<0.5	U
50	TOLUENE	108-88-3	μg/L	0.5	0.5	J
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 (TCE)	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	TRICHLOROTRIFLUOROETHANE	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	108
2	DIBROMOFLUOROMETHANE	1868-53-7	70-129	100
3	1,2-DICHLOROETHANE-D4	17060-07-0	70-122	87
4	TOLUENE-D8	2037-26-5	73-129	104
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	131
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	129
3	FLUOROBENZENE	462-06-6	50-200	134
# of out-of-control				0

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

[a]MDL reported.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 524.2

Client Name:	GEOFON, Inc.	Project No:	04-442810	Collection Date:	01/29/2003
Project ID:	JPL	Service ID:	31369	Collected by:	
		Lab Sample ID:	03-1369-8	Received Date:	01/29/2003
Sample ID:	**TB-1-1/29/03**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: G
Anal. Method:	524.2	Prep. Date:	02/03/03	Anal. Date:	02/03/03
Batch No:	03G1286	Prep. No:	–	Anal. Time:	17:09
Data File Name:	1369-08A	Sample Amount:	25 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	0.73 [a]	<0.73	U
7	2-BUTANONE	78-93-3	μg/L	10	<10	U
8	N-BUTYLBENZENE	104-51-8	μg/L	0.5	<0.5	U
9	SEC-BUTYLBENZENE	135-98-8	μg/L	0.5	<0.5	U
10	TERT-BUTYLBENZENE	98-06-6	μg/L	0.5	<0.5	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	0.54 [a]	<0.54	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	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	4-METHYL-2-PENTANONE (MIBK)	108-10-1	μg/L	10	<10	U
43	METHYL-T-BUTYL ETHER (MTBE)	1634-04-4	μg/L	1	<1	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 (PCE)	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 (TCE)	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	TRICHLOROTRIFLUOROETHANE	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	106
2	DIBROMOFLUOROMETHANE	1868-53-7	70-129	98
3	1,2-DICHLOROETHANE-D4	17060-07-0	70-122	87
4	TOLUENE-D8	2037-26-5	73-129	103
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	131
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	135
3	FLUOROBENZENE	462-06-6	50-200	133
# of out-of-control				0

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

[a]MDL reported.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
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:	031369
Project ID:	JPL	Project No:	04-442810	Sample Matrix:	Water
		Batch No:	03G1286		

#	Client Sample No	Lab Sample ID	S1 % #	S2 % #	S3 % #	S4 % #	TOT OUT
1	03G1286-LCS-01	03G1286-LCS-01	98	94	89	100	0
2	MW-20-3MS	03-1402-5MS	100	95	88	97	0
3	MW-20-3MSD	03-1402-5MSD	90	92	87	95	0
4	03G1286-MB-01	03G1286-MB-01	110	99	85	107	0
5	EB-1-1/29/03	03-1369-1	104	94	81	103	0
6	MW-21-1	03-1369-2	106	94	81	105	0
7	MW-21-2	03-1369-3	111	98	85	106	0
8	MW-21-3	03-1369-4	104	94	83	102	0
9	MW-21-5	03-1369-6	114	101	93	108	0
10	SOURCE BLANK-1	03-1369-7	108	100	87	104	0
11	TB-1-1/29/03	03-1369-8	106	98	87	103	0
12	MW-21-4	03-1369-5	95	90	81	94	0
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

	QC Control Limit
S1 = 1-BROMO-4-FLUOROBENZENE (4-BROMOFL	70-129
S2 = DIBROMOFLUOROMETHANE	70-129
S3 = 1,2-DICHLOROETHANE-D4	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:	31369
Project ID:	JPL	Project No:	04-442810	Sample Matrix:	Water
		Batch No:	03G1286		
LCS Filename:	G1286L01	Date Analyzed:	020303	Time Analyzed:	10:58
LCSD Filename:	–	Date Analyzed:	–	Time Analyzed:	–

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
BENZENE	μg/L	20	0	19.7	99	65-120
CHLOROBENZENE	μg/L	20	0	21.4	107	65-134
1,1-DICHLOROETHENE	μg/L	20	0	21.0	105	65-127
TOLUENE	μg/L	20	0	19.2	96	65-134
TRICHLOROETHENE (TCE)	μg/L	20	0	20.1	101	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:	31369
Project ID:	JPL	Project No:	04-442810	Sample Matrix:	Water
		Batch No:	03G1286		
MS Filename:	G1286M01	Date Analyzed:	020303	Time Analyzed:	11:27
MSD Filename:	G1286N01	Date Analyzed:	020303	Time Analyzed:	11:55
MS Sample No:	**MW-20-3**	Sample Lab ID:	03-1402-5		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
BENZENE	μg/L	20	0	19.5	98	65-121
CHLOROBENZENE	μg/L	20	0	21.5	108	65-134
1,1-DICHLOROETHENE	μg/L	20	0	20.1	101	65-127
TOLUENE	μg/L	20	0	18.4	92	65-134
TRICHLOROETHENE (TCE)	μg/L	20	0	19.0	95	65-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	μg/L	20	19.0	95	3	28	65-121
CHLOROBENZENE	μg/L	20	19.8	99	9	35	65-134
1,1-DICHLOROETHENE	μg/L	20	19.1	96	5	31	65-127
TOLUENE	μg/L	20	17.8	89	3	35	65-134
TRICHLOROETHENE (TCE)	μg/L	20	18.7	94	1	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.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	31369
Project ID:	JPL	Project No:	04-442810	Analysis Date:	02/03/03
		Sample Matrix:	Water	Analysis Time:	13:21
Sample ID:	**03G1286-MB-01**	Batch No:	03G1286	Instrument ID:	GC/MS: G
Lab Sample ID:	03G1286-MB-01	Data File Name:	G1286K02	GC Column:	DB-VEX
		Heated Purge: (Y/N)	N	Column ID:	0.45 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	EB-1-1/29/03	03-1369-1	Field Sample	1369-01A	02/03/03	13:50
2	MW-21-1	03-1369-2	Field Sample	1369-02A	02/03/03	14:18
3	MW-21-2	03-1369-3	Field Sample	1369-03A	02/03/03	14:47
4	MW-21-3	03-1369-4	Field Sample	1369-04A	02/03/03	15:15
5	MW-21-5	03-1369-6	Field Sample	1369-06A	02/03/03	16:12
6	SOURCE BLANK-1	03-1369-7	Field Sample	1369-07B	02/03/03	16:40
7	TB-1-1/29/03	03-1369-8	Field Sample	1369-08A	02/03/03	17:09
8	MW-21-4	03-1369-5	Field Sample	1369-05B	02/03/03	21:40
9						
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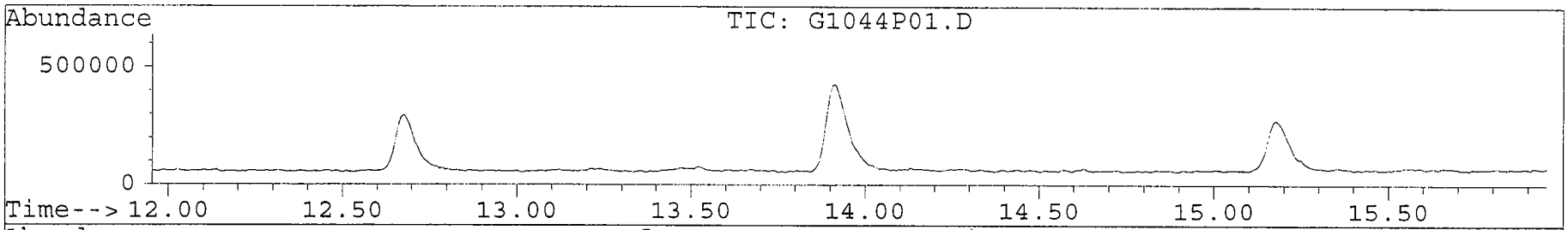
25						

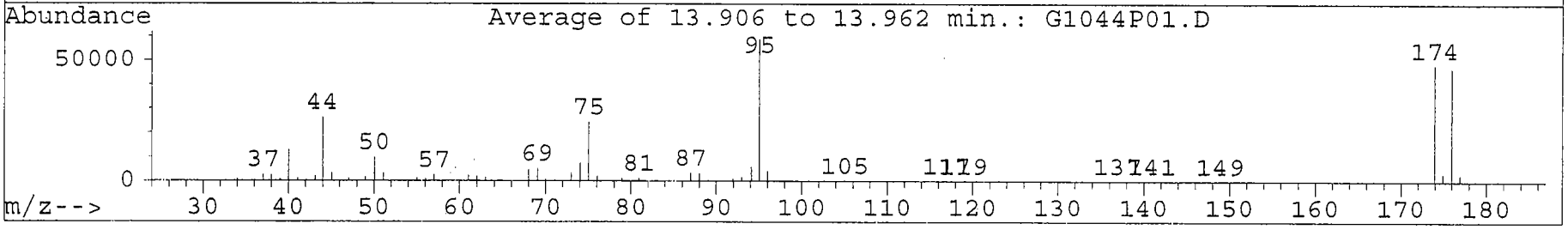
BFB

Data File : C:\HPCHEM\1\DATA\03G1044\G1044P01.D
Acq On : 10 Jan 03 1:51 pm
Sample : ##03g1044, w
Misc :

Vial: 16
Operator: Eddie
Inst : GCMS-G
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2





Peak Apex is scan: 1479

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	9968	PASS
75	95	30	60	41.9	24658	PASS
95	95	100	100	100.0	58860	PASS
96	95	5	9	7.2	4263	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	82.4	48487	PASS
175	174	5	9	7.2	3468	PASS
176	174	95	101	96.8	46953	PASS
177	176	5	9	6.3	2949	PASS

G1044 1.D E524G003.M Mon Jan 13 09:24:09 2003

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : APPLIED P & CH LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 03-1369

Lab File ID: G1044 P01 BFB Injection Date: 01/10/2003

Instrument ID: GCMS-G BFB Injection Time: 1351

GC Column: VOCOL ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	41.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	82.4
175	5.0 - 9.0% of mass 174	5.9 (7.2)1
176	95.0 - 101.0% of mass 174	79.8 (96.8)1
177	5.0 - 9.0% of mass 176	5.0 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0003	003-A0003	003-A0003.D	01/10/03	1427
02	VSTD002	003-002	003-0002.D	01/10/03	1526
03	VSTD010	003-0010	003-0010.D	01/10/03	1555
04	VSTD020	003-0020	003-0020.D	01/10/03	1624
05	VSTD040	003-0040	003-0040.D	01/10/03	1654
06	VSTD080	003-0080	003-0080.D	01/10/03	1723
07					
08					
09					
10					
11					
12					
13					
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15					
16					
17					
18					
19					
20					
21					
22					

Response Factor Report GCMS-G

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2
Last Update : Mon Jan 13 09:57:17 2003
Response via : Initial Calibration

Calibration Files
0.3 =3-0003.D 2 =3-002.D 10 =3-010.D
20 =3-020.D 40 =3-040.D 80 =3-080.D

		Compound	0.3	2	10	20	40	80	Avg	%RSD	r2
1)	I	1 Fluorobenzene I1	ISTD								
2)		3 di-Cl-di-F-metha	0.401	0.288	0.312	0.289	0.285	0.276	0.308	15.17	1.000
3)	P	4 Chloromethane		0.201	0.216	0.253	0.278	0.269	0.243	13.88	
4)		9 F114 85 135	0.350	0.300	0.334	0.313	0.315	0.304	0.319	5.93	
5)	C	5 vinyl chloride	0.217	0.232	0.243	0.233	0.237	0.223	0.231	3.96	
6)		6 bromomethane	0.255	0.283	0.240	0.190	0.198	0.198	0.227	16.60	0.999
7)		7 Chloroethane	0.158	0.177	0.177	0.169	0.175	0.169	0.171	4.25	
8)		8 tri-Cl-F-methane	0.318	0.367	0.432	0.414	0.413	0.398	0.390	10.70	
9)		111 isopropyl alcoh		0.005	0.005	0.004	0.005	0.004	0.005#	12.57	
10)		100 ethyl ether x5	0.177	0.141	0.135	0.133	0.137	0.133	0.143	12.11	
11)		102 Acrolein x10		0.010	0.010	0.015	0.012	0.011	0.011#	17.19	
12)		119 methyl acetate	0.177	0.103	0.110	0.126		0.124	0.128	22.73	1.000
13)		104 Carbon disulfid	0.919	0.866	0.830	0.793	0.817	0.777	0.834	6.25	
14)		103 Acrylonitrilex1		0.024	0.024	0.024	0.024	0.024	0.024#	1.28	
15)		95 Acetone x10		0.027	0.017	0.018	0.016	0.016	0.019#	25.00	0.999
16)		108 F-113	0.232	0.267	0.343	0.325	0.321	0.311	0.300	13.95	
17)	M,C	13 11-dichloroethen	0.376	0.399	0.409	0.389	0.398	0.381	0.392	3.13	
18)		101 Acetonnitrilex1	0.009	0.001	0.007	0.007	0.007	0.006	0.006#	44.01	0.998
19)		109 Iodomethane	0.170	0.363	0.385	0.320	0.331	0.296	0.311	24.45	0.996
20)		113 Tert butyl alco		0.012	0.008	0.009	0.008	0.009	0.009#	17.38	0.999
21)		18 methylene chlori	1.220	0.724	0.498	0.407	0.365		0.643	54.62	0.993
22)		112 Allyl chloride	0.514	0.479	0.422	0.416	0.405	0.365	0.434	12.39	
23)		200 Nitro methane x	0.044	0.044	0.044	0.043	0.044	0.042	0.044#	1.92	
24)		10 t-Bu-Me-ether	0.842	0.479	0.398	0.418	0.420	0.429	0.498	34.33	1.000
25)		19 t-12-di-Cl-ethen	0.324	0.294	0.299	0.296	0.301	0.289	0.301	4.05	
26)		98 Vinyl acetate x5	0.312	0.304	0.286	0.157	0.315	0.248	0.270	22.48	
27)	P	21 11-dichloroethan	0.500	0.546	0.535	0.527	0.534	0.507	0.525	3.36	
28)		91 2-butanone MEKx1	0.104	0.095	0.090	0.088	0.094	0.092	0.094	6.20	

(#) = Out of Range

Response Factor Report GCMS-G

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2
Last Update : Mon Jan 13 09:57:17 2003
Response via : Initial Calibration

Calibration Files
0.3 =3-0003.D 2 =3-002.D 10 =3-010.D
20 =3-020.D 40 =3-040.D 80 =3-080.D

		Compound	0.3	2	10	20	40	80	Avg	%RSD	r^2
29)		115 Di isoprop ethe	0.108	1.340	1.315	1.320	1.351	1.317	1.125	44.32	1.000
30)		22 c-12-di-Cl-ethen	0.299	0.300	0.291	0.291	0.297	0.287	0.294	1.83	
31)		23 22-Dichloropropa	0.573	0.467	0.437	0.419	0.418	0.403	0.453	13.83	
32)		24 Br-Cl-methane	0.042	0.099	0.104	0.104	0.108	0.105	0.094	27.43	1.000
33)	C	25 chloroform	0.648	0.531	0.493	0.488	0.504	0.487	0.525	11.86	
34)		201 Ethyl acetate x		0.144	0.137	0.100	0.151	0.136	0.134	14.75	
35)		116 ETBE	0.910	0.810	0.787	0.780	0.785	0.769	0.807	6.50	
36)		117 Iso-butyl alcoh	0.024	0.029	0.029	0.020	0.031	0.027	0.027#	14.60	
37)		26 tetrahydrofuranx		0.011	0.010	0.010	0.010	0.010	0.010#	4.18	
38)	S	27 Di-Br-F-Methane	0.604	0.385	0.352	0.350	0.360	0.349	0.400	25.18	1.000
39)		34 111-tri-Cl-ethan	0.542	0.428	0.418	0.409	0.414	0.413	0.437	11.85	
40)		30 12-dichloroethan	0.024	0.205	0.204	0.201	0.208	0.205	0.175	42.30	1.000
41)		35 11-Di-Cl-propene	0.413	0.378	0.379	0.371	0.378	0.373	0.382	4.04	
42)	S	29 1,2-di-Cl-ethane		0.173	0.165	0.164	0.165	0.159	0.165	3.14	
43)	M	36 benzene	0.854	0.901	0.876	0.863	0.883	0.837	0.869	2.63	
44)		37 CCl4	0.341	0.311	0.354	0.334	0.340	0.329	0.335	4.32	
45)		97 thiophene	0.441	0.456	0.429	0.421	0.430	0.415	0.432	3.39	
46)		118 TAME		0.635	0.539	0.536	0.527	0.541	0.556	8.06	
47)	C	39 12-di-Cl-propane	0.255	0.253	0.252	0.254	0.257	0.253	0.254	0.66	
48)	M	40 trichloroethene	0.253	0.267	0.275	0.273	0.279	0.269	0.269	3.39	
49)		96 Me-methacrylate		0.128	0.086	0.083	0.087	0.092	0.095	19.43	0.99 P
50)		42 Br-di-Cl-methane	0.441	0.364	0.340	0.327	0.331	0.324	0.355	12.65	
51)		41 dibromomethane	0.100	0.117	0.128	0.132	0.133	0.127	0.123	10.29	
52)		45 c-13-di-Cl-prope	0.341	0.316	0.303	0.301	0.309	0.307	0.313	4.71	
53)	S	55 toluene-d8(S2)		0.509	0.500	0.491	0.504	0.493	0.500	1.57	
54)		92 2-ClEt-Vi-ether1	0.045	0.052	0.054	0.055	0.057	0.057	0.054	8.68	
55)	M C	56 toluene	0.926	0.820	0.796	0.777	0.794	0.786	0.817	6.80	
56)		107 Et methacrylate		0.232	0.176	0.112	0.178	0.147	0.169	26.25	
57)		93 2-Hexanone x5		0.062	0.058	0.050	0.058	0.057	0.057	7.78	

(#) = Out of Range

Response Factor Report GCMS-G

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2
Last Update : Mon Jan 13 09:57:17 2003
Response via : Initial Calibration

Calibration Files
0.3 =3-0003.D 2 =3-002.D 10 =3-010.D
20 =3-020.D 40 =3-040.D 80 =3-080.D

		Compound	0.3	2	10	20	40	80	Avg	%RSD	
58)		48 112-tri-Cl-Et	0.226	0.143	0.120	0.116	0.121	0.118	0.141	30.67	1.000
59)		58 1,2-di-br-ethane	0.050	0.125	0.124	0.129	0.129	0.128	0.114	27.70	1.000
60)		51 di-Br-Cl-methane	0.117	0.177	0.166	0.165	0.170	0.172	0.161	13.59	
61)		46 t-13-di-cl-prope	0.200	0.197	0.206	0.204	0.206	0.197	0.202	2.11	
62)		105 1-Chlorohexane	0.564	0.285	0.272	0.253	0.249	0.237	0.310	40.49	0.999
63)	I	47 Cl-benzene-d5, I2	----------ISTD----------								
64)		54 MIBK	0.207	0.298	0.328	0.319	0.325	0.304	0.297	15.38	0.999
65)		49 1,3-di-cl-propan	0.624	0.665	0.699	0.690	0.647	0.598	0.654	5.95	
66)		59 tetra-Cl-ethene	0.767	0.892	0.960	0.927	0.884	0.850	0.880	7.60	
67)	M P	60 chlorobenzene	1.465	1.556	1.560	1.485	1.424	1.278	1.461	7.13	
68)		61 1112-tetra-Cl-Et	0.473	0.619	0.613	0.631	0.602	0.573	0.585	9.96	
69)	C	64 ethylbenzene	3.150	3.064	2.822	2.754	2.619	2.485	2.816	9.06	
70)		65 m/p-Xylenes x2	2.309	2.321	2.213	2.124	2.010	1.868	2.141	8.30	
71)		99 1-4-di-Cl-butane	0.809	0.710	0.649	0.615	0.570	0.518	0.645	16.06	
72)	P	52 bromoform	0.118	0.305	0.317	0.319	0.302	0.282	0.274	28.23	0.998
73)		66 styrene	1.595	1.641	1.561	1.507	1.441	1.326	1.512	7.58	
74)		67 o-xylene	2.457	2.410	2.147	2.035	1.889	1.700	2.106	13.98	
75)	P	68 1122-Tetra-Cl-Et	0.391	0.469	0.403	0.385	0.349	0.323	0.387	12.94	
76)		110 t-1,4-dichloro-		0.153	0.078	0.060	0.058	0.053	0.081	51.75	0.999
77)		106 Cl-benzyl	0.890	0.534	0.539	0.531	0.489	0.448	0.572	27.91	0.996
78)	I	62 1,4-DCB-d4 150 152	----------ISTD----------								
79)		69 123-tri-Cl-Pr		0.112	0.116	0.123	0.127	0.131	0.122	6.42	
80)	S	70 4-Br-1-F-Bz (S3)		0.935	0.877	0.886	0.890	0.880	0.893	2.69	
81)		71 isopropylbenzene	2.780	3.439	3.399	3.298	3.366	3.435	3.286	7.71	
82)		72 bromobenzene	0.527	0.700	0.760	0.772	0.787	0.782	0.721	13.87	
83)		73 n-propylbenzene	0.727	0.924	0.921	0.910	0.914	0.920	0.886	8.83	
84)		74 2-Cl-Tl 126	0.646	0.602	0.566	0.545	0.606	0.566	0.589	6.23	

(#) = Out of Range

Response Factor Report GCMS-G

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2
Last Update : Mon Jan 13 09:57:17 2003
Response via : Initial Calibration

Calibration Files
0.3 =3-0003.D 2 =3-002.D 10 =3-010.D
20 =3-020.D 40 =3-040.D 80 =3-080.D

	Compound		0.3	2	10	20	40	80	Avg	%RSD	
85)	75 4-Cl-Tl	126	0.683	0.834	0.866	0.784	0.843	0.816	0.804	8.13	
86)	76 135-tri-Me-Bz		2.482	2.722	2.700	2.625	2.675	2.716	2.653	3.43	
87)	79 tert-butylbenzen		2.218	2.871	2.824	2.765	2.829	2.837	2.724	9.19	
88)	78 124-tri-Me-Bz		1.891	2.455	2.250	2.296	2.326	2.317	2.256	8.48	
89)	80 13-di-Cl-Bz	146	0.934	1.158	1.264	1.084	1.198	1.258	1.149	10.87	
90)	82 14-di-Cl-Bz	146	1.527	1.764	1.616	1.744	1.694	1.675	1.670	5.24	
91)	81 sec-butylbenzene		3.330	4.148	4.224	3.968	4.057	4.172	3.983	8.35	
92)	77 4-iso-Pr-toluene		2.419	3.039	3.032	2.939	2.928	2.886	2.874	8.04	
93)	84 12-di-Cl-benzene		0.920	1.150	1.163	1.111	1.152	1.156	1.109	8.49	
94)	85 n-butylbenzene		3.034	2.990	3.069	2.970	2.978	3.028	3.012	1.28	
95)	86 12-diBr-3-Cl-Pra			0.063	0.077	0.085	0.089	0.091	0.081	13.95	
96)	87 124-tri-Cl-Bz		0.534	0.749	0.838	0.873	0.858	0.901	0.792	17.24	0.999
97)	88 naphthalene		0.804	0.553	0.616	0.666	0.652	0.700	0.665	12.68	
98)	90 123-tri-Cl-Bz		0.497	0.559	0.642	0.649	0.636	0.642	0.604	10.29	
99)	89 hx-Cl-butadiene		0.432	0.625	0.690	0.663	0.662	0.652	0.621	15.29	1.000

(#) = Out of Range

INITIAL CALIBRATION SUMMARY

Method File E524G003
Last Calibration Update Mon Jan 13 09:57:17 2003

Level 1 File Name	3-0003.D	**Level 1 ID**	0.3
Level 2 File Name	3-002.D	**Level 2 ID**	2
Level 3 File Name	3-010.D	**Level 3 ID**	10
Level 4 File Name	3-020.D	**Level 4 ID**	20
Level 5 File Name	3-040.D	**Level 5 ID**	40
Level 6 File Name	3-080.D	**Level 6 ID**	80
Level 7 File Name	3-020.D	**Level 7 ID**	cc

Compound Name	Level 1 Response	Level 2 Response	Level 3 Response	Level 4 Response	Level 5 Response	Level 6 Response	Level 7 Response	Coeff X^0	Coeff X^1 / ave RF	Coeff X^2	R^2 / RSD
1 Fluorobenzene I1 1	765834	768596	755237	739905	721219	703721	-1	------	------	------	------
3 di-Cl-di-F-methane 85 87	9202	44272	235359	427426	820884	1551879	-1	0.0191	0.2750	0.0000	0.9996
4 Chloromethane 50 52	4751	30836	163038	374044	803175	1514667	-1	0.0000	0.2433	0.0000	0.1388
9 F114 85 135	8035	46094	252154	462947	909235	1714061	-1	0.0000	0.3193	0.0000	0.0593
5 vinyl chloride 62 64	4990	35625	183259	344227	682967	1258237	-1	0.0000	0.2307	0.0000	0.0396
6 bromomethane 94 96	5861	43488	181174	281305	570773	1116110	-1	0.0126	0.1961	0.0000	0.9990
7 Chloroethane 64 66	3629	27223	133510	250119	505034	952606	-1	0.0000	0.1709	0.0000	0.0425
8 tri-Cl-F-methane 101 103	7295	56379	326202	612174	1192828	2238212	-1	0.0000	0.3902	0.0000	0.1070
111 isopropyl alcohol x10	1236	8181	34708	55395	131600	244204	-1	0.0000	0.0045	0.0000	0.1257
100 ethyl ether x5	20361	108089	509174	980952	1975186	3742221	-1	0.0000	0.1425	0.0000	0.1211
102 Acrolein x10	3234	15074	75489	215710	340415	601157	-1	0.0000	0.0114	0.0000	0.1719
119 methyl acetate	4062	15788	82815	187169	-1	696519	-1	-0.0033	0.1242	0.0000	0.9997
104 Carbon disulfide	21121	133095	626926	1173322	2357195	4372134	-1	0.0000	0.8336	0.0000	0.0625
103 Acrylonitrilex10	4569	37044	178667	348877	701313	1341637	-1	0.0000	0.0239	0.0000	0.0128
95 Acetone x10	989	41993	128289	268909	465240	912905	-1	0.0227	0.0159	0.0000	0.9991
108 F-113	5327	41068	259145	480691	925581	1749444	-1	0.0000	0.2998	0.0000	0.1395
13 11-dichloroethene 61 96	8641	61263	309126	575822	1147783	2146767	-1	0.0000	0.3920	0.0000	0.0313
101 Acetonnitrilex10	2063	1527	53569	97490	189257	353648	-1	0.0013	0.0063	0.0000	0.9985
109 Iodomethane	3901	55824	290992	473953	954242	1666625	-1	0.0467	0.2964	0.0000	0.9961
113 Tert butyl alcohol x10	2556	18436	60720	133851	240444	485913	-1	0.0016	0.0086	0.0000	0.9991
18 methylene chloride 49 84	28023	111315	375753	602942	1052979	-1	-1	0.0818	0.3520	0.0000	0.9932

112 Allyl chloride	11807	73643	318868	616004	1168854	2056270	-1	0.0000	0.4336	0.0000	0.1239
200 Nitro methane x10	10089	68361	334791	633827	1264975	2385881	-1	0.0000	0.0436	0.0000	0.0192
10 t-Bu-Me-ether 73 57	19344	73627	300489	618307	1211982	2415631	-1	-0.0086	0.4281	0.0000	0.9997
19 t-12-di-Cl-ethene 96 61	7446	45222	225516	438020	867973	1629626	-1	0.0000	0.3005	0.0000	0.0405
98 Vinyl acetate x5	35861	233914	1080092	1161950	4543111	6984572	-1	0.0000	0.2704	0.0000	0.2248
21 11-dichloroethane 63 83	11490	83925	403704	780313	1539657	2853804	-1	0.0000	0.5248	0.0000	0.0336
91 2-butanone MEKx10	23960	146366	680153	1296553	2708302	5159574	-1	0.0000	0.0938	0.0000	0.0620
115 Di isoprop ether	2475	206054	993426	1953682	3898884	7414434	-1	0.0032	1.3231	0.0000	0.9998
22 c-12-di-Cl-ethene 96 61	6875	46067	219592	430734	857123	1613152	-1	0.0000	0.2941	0.0000	0.0183
23 22-Dichloropropane 77 97	13155	71811	330092	619878	1207116	2269373	-1	0.0000	0.4529	0.0000	0.1383
24 Br-Cl-methane 128 130	956	15248	78733	153832	312235	593248	-1	-0.0008	0.1060	0.0000	0.9998
25 chloroform 83 85	14881	81604	372529	722194	1453363	2739754	-1	0.0000	0.5251	0.0000	0.1186
201 Ethyl acetate x2	-1	44403	206670	296783	873148	1526995	-1	0.0000	0.1337	0.0000	0.1475
116 ETBE	20917	124488	594002	1154600	2264664	4329036	-1	0.0000	0.8068	0.0000	0.0650
117 Iso-butyl alcohol X10	5582	44403	221032	297076	880890	1546333	-1	0.0000	0.0268	0.0000	0.1460
26 tetrahydrofuranx5	1945	8407	36840	75144	146600	287877	-1	0.0000	0.0102	0.0000	0.0418
27 Di-Br-F-Methane (S1) 111 1	13867	59189	265788	517816	1038870	1963588	-1	0.0096	0.3493	0.0000	0.9997
34 111-tri-Cl-ethane 97 99	12459	65859	315664	604949	1193974	2324189	-1	0.0000	0.4374	0.0000	0.1185
30 12-dichloroethane 64 62	549	31555	154021	298086	600265	1155412	-1	-0.0025	0.2060	0.0000	0.9999
35 11-Di-Cl-propene 75 110	9488	58117	286388	549558	1091787	2099663	-1	0.0000	0.3822	0.0000	0.0404
29 1,2-di-Cl-ethane-d4 [Surr] 10	-1	26643	124715	242470	475685	894560	-1	0.0000	0.1652	0.0000	0.0314
36 benzene 78 52	19613	138554	661631	1277049	2547937	4710056	-1	0.0000	0.8690	0.0000	0.0263
37 CCl4 117 119	7832	47773	267339	493900	981263	1852391	-1	0.0000	0.3348	0.0000	0.0432
97 thiophene	10129	70133	323713	623624	1239916	2337761	-1	0.0000	0.4320	0.0000	0.0339
118 TAME	4367	97622	406861	792558	1521011	3045504	-1	0.0000	0.5555	0.0000	0.0806
39 12-di-Cl-propane 63 76	5869	38931	190695	376101	741594	1426638	-1	0.0000	0.2543	0.0000	0.0066
40 trichloroethene 130 132	5805	41064	207771	403682	804090	1515012	-1	0.0000	0.2693	0.0000	0.0339
96 Me-methacrylate	1472	19691	65318	123371	250724	519513	-1	-0.0068	0.0920	0.0000	0.9983
42 Br-di-Cl-methane 83 85	10138	55994	256691	484084	955698	1823535	-1	0.0000	0.3546	0.0000	0.1265
41 dibromomethane 174 172	2292	17911	96884	194764	383350	714384	-1	0.0000	0.1227	0.0000	0.1029

Compound Name	Level 1 Response	Level 2 Response	Level 3 Response	Level 4 Response	Level 5 Response	Level 6 Response	Level 7 Response	Coeff X^0	Coeff X^1 / ave RF	Coeff X^2	R^2 / RSD
45 c-13-di-Cl-propene 75 110	7832	48533	229072	445153	890451	1727952	-1	------	------	------	------
55 toluene-d8(S2) 100 99	-1	78299	377922	725871	1455135	2774904	-1	0.0000	0.4995	0.0000	0.0157
92 2-ClEt-Vi-ether10	10352	80060	410701	820365	1655105	3234891	-1	0.0000	0.0536	0.0000	0.0868
56 toluene 91 92	21278	126101	601438	1149709	2291459	4425814	-1	0.0000	0.8167	0.0000	0.0680

107 Et methacrylate	-1	35707	132945	165590	512644	828103	-1	0.0000	0.1690	0.0000	0.2625
93 2-Hexanone x5	10744	47646	218029	368204	831419	1601350	-1	0.0000	0.0568	0.0000	0.0778
48 112-tri-Cl-Et 97 83	5203	21908	90597	172036	347876	664699	-1	0.0031	0.1179	0.0000	0.9998
58 1,2-di-br-ethane 107 109	1144	19207	94012	191133	371448	723238	-1	-0.0016	0.1288	0.0000	1.0000
51 di-Br-Cl-methane 129 127	2693	27173	125300	243477	489254	967601	-1	0.0000	0.1610	0.0000	0.1359
46 t-13-di-cl-propene 75 110	4584	30276	155530	301394	594704	1109294	-1	0.0000	0.2015	0.0000	0.0211
105 1-Chlorohexane	12961	43864	205359	374248	719249	1336615	-1	0.0247	0.2364	0.0000	0.9994
47 Cl-benzene-d5, I2	226795	229493	225971	224981	233528	241678	-1	0.0000	1.0000	0.0000	0.0000
54 MIBK	1407	13676	74160	143757	303184	587112	-1	0.0184	0.3053	0.0000	0.9988
49 1,3-di-cl-propane 76 78	4247	30516	157929	310529	604220	1155285	-1	0.0000	0.6537	0.0000	0.0595
59 tetra-Cl-ethene 166 168	5221	40927	216892	417298	825820	1643233	-1	0.0000	0.8800	0.0000	0.0760

Compound Name	Level 1 Response	Level 2 Response	Level 3 Response	Level 4 Response	Level 5 Response	Level 6 Response	Level 7 Response	Coeff X^0	Coeff X^1 / ave RF	Coeff X^2	R^2 / RSD
60 chlorobenzene 112 77	9971	71440	352480	668143	1330525	2470738	-1	0.0000	------	------	------
61 1112-tetra-Cl-Et 131 133	3219	28400	138607	283855	562377	1108773	-1	0.0000	0.5853	0.0000	0.0996
64 ethylbenzene 91 106	21430	140640	637777	1239073	2446417	4804958	-1	0.0000	2.8157	0.0000	0.0906
65 m/p-Xylenes x2	31419	213036	1000145	1911139	3754507	7222435	-1	0.0000	2.1406	0.0000	0.0830
99 1-4-di-Cl-butane	5503	32572	146606	276558	532573	1001628	-1	0.0000	0.6450	0.0000	0.1606
52 bromoform 173 175	806	13982	71698	143599	281887	544898	-1	0.0303	0.2823	0.0000	0.9980
66 styrene 104 78	10850	75317	352645	677932	1346269	2563056	-1	0.0000	1.5116	0.0000	0.0758
67 o-xylene 91 106	16715	110603	485194	915641	1764503	3287299	-1	0.0000	2.1063	0.0000	0.1398
68 1122-Tetra-Cl-Et 83 85	2658	21540	91096	173152	326262	625224	-1	0.0000	0.3868	0.0000	0.1294
110 t-1,4-dichloro-2-butene	1095	7032	17679	27009	54200	103110	-1	0.0235	0.0507	0.0000	0.9991
106 Cl-benzyl	6053	24517	121704	238713	457227	866531	-1	0.0784	0.4469	0.0000	0.9969
62 1,4-DCB-d4 150 152 I3	197143	197148	188831	184633	176207	164785	-1	0.0000	1.0000	0.0000	0.0000
69 123-tri-Cl-Pr 110 97	253	4401	21971	45443	89331	172722	-1	0.0000	0.1218	0.0000	0.0642
70 4-Br-1-F-Bz (S3) 174 95	-1	36886	165570	327081	627145	1159540	-1	0.0000	0.8935	0.0000	0.0269
71 isopropylbenzene 105 120	16442	135584	641793	1217921	2372165	4528346	-1	0.0000	3.2861	0.0000	0.0771
72 bromobenzene 156 158	3119	27613	143515	285095	554412	1030644	-1	0.0000	0.7214	0.0000	0.1387
73 n-propylbenzene 120 78	4297	36443	173970	335858	643879	1212584	-1	0.0000	0.8858	0.0000	0.0883
74 2-Cl-Tl 126 128	3821	23738	106793	201349	427470	745993	-1	0.0000	0.5885	0.0000	0.0623
75 4-Cl-Tl 126 128	4042	32882	163598	289530	594245	1075809	-1	0.0000	0.8045	0.0000	0.0813
76 135-tri-Me-Bz 105 120	14680	107323	509842	969387	1885346	3580223	-1	0.0000	2.6533	0.0000	0.0343
79 tert-butylbenzene 119 91	13115	113211	533176	1020985	1994231	3739615	-1	0.0000	2.7239	0.0000	0.0919
78 124-tri-Me-Bz 105 120	11184	96787	424953	847796	1639260	3054447	-1	0.0000	2.2558	0.0000	0.0848
80 13-di-Cl-Bz 146 148	5522	45648	238597	400250	844281	1658291	-1	0.0000	1.1491	0.0000	0.1087

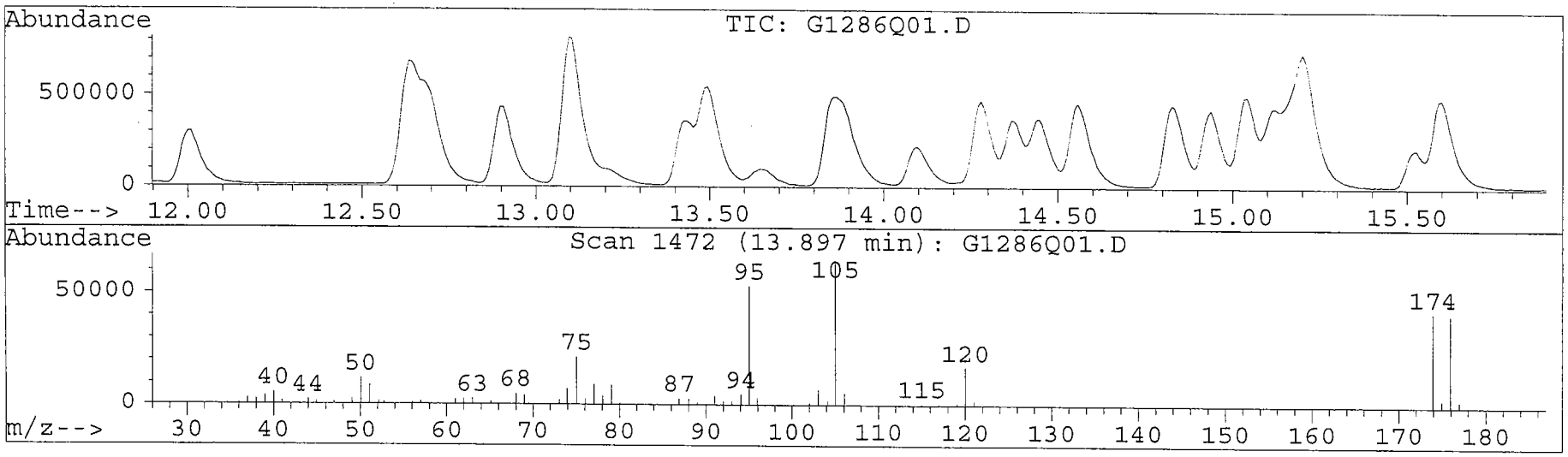
82	14-di-Cl-Bz 146 148	9029	69544	305231	644124	1193857	2207723	-1	0.0000	1.6699	0.0000	0.0524
81	sec-butylbenzene 105 134	19695	163551	797663	1465228	2859247	5499576	-1	0.0000	3.9831	0.0000	0.0835
77	4-iso-Pr-toluene 119 134	14306	119820	572630	1085210	2064029	3804782	-1	0.0000	2.8739	0.0000	0.0804
84	12-di-Cl-benzene 146 148	5444	45355	219614	410082	812246	1524040	-1	0.0000	1.1088	0.0000	0.0849
85	n-butylbenzene 91 134	17944	117913	579573	1096665	2099124	3991637	-1	0.0000	3.0116	0.0000	0.0128
86	12-diBr-3-Cl-Pra 157 155	-1	2498	14611	31395	62914	120318	-1	0.0000	0.0813	0.0000	0.1395
87	124-tri-Cl-Bz 180 182	3158	29532	158333	322231	604462	1187497	-1	-0.0539	0.9002	0.0000	0.9995
88	naphthalene 128 129	4753	21798	116373	245906	459400	922945	-1	0.0000	0.6651	0.0000	0.1268
90	123-tri-Cl-Bz 180 182	2940	22060	121207	239739	448256	845940	-1	0.0000	0.6042	0.0000	0.1029
89	hx-Cl-butadiene 225 260	2553	24644	130257	244690	466707	859594	-1	0.0135	0.6525	0.0000	0.9999

BFB

Data File : C:\HPCHEM\1\DATA\03G1286\G1286Q01.D
Acq On : 3 Feb 03 10:29 am
Sample : f=1
Misc :

Vial: 17
Operator: Eddie
Inst : GCMS-G
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2



Peak Apex is scan: 1472

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	11673	PASS
75	95	30	60	39.9	21192	PASS
95	95	100	100	100.0	53160	PASS
96	95	5	9	6.0	3164	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	78.9	41968	PASS
175	174	5	9	7.5	3155	PASS
176	174	95	101	97.6	40952	PASS
177	176	5	9	6.4	2627	PASS

G1286Q01.D E524G003.M Mon Feb 03 14:05:28 2003

FORM-5A

Applied P & Ch Laboratory

Volatile Organic Instrument Performance Check for Method 524.2

Bromofluorobenzene (BFB), Part II

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	031369
Project ID:	JPL	BFB Inj. Date:	02/03/03	Batch No:	03G1286
		BFB Inj. Time:	10:29	Sequence No:	03G1286
Project No:	04-442810	Instrument ID:	G	GC Column:	DB-VEX
Data File Name:	G128QP01	Heated Purge: (Y/N)	N	Column ID:	0.45 mm

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

#	Client Sample No	Lab Sample ID	Data File Name	Date Analyzed	Time Analyzed
1	03G1286-CCV-01	03G1286-CCV-01	G1286Q01	02/03/03	10:29
2	03G1286-LCS-01	03G1286-LCS-01	G1286L01	02/03/03	10:58
3	MW-20-3MS	03-1402-5MS	G1286M01	02/03/03	11:27
4	MW-20-3MSD	03-1402-5MSD	G1286N01	02/03/03	11:55
5	03G1286-MB-01	03G1286-MB-01	G1286K02	02/03/03	13:21
6	EB-1-1/29/03	03-1369-1	1369-01A	02/03/03	13:50
7	MW-21-1	03-1369-2	1369-02A	02/03/03	14:18
8	MW-21-2	03-1369-3	1369-03A	02/03/03	14:47
9	MW-21-3	03-1369-4	1369-04A	02/03/03	15:15
10	MW-21-5	03-1369-6	1369-06A	02/03/03	16:12
11	SOURCE BLANK-1	03-1369-7	1369-07B	02/03/03	16:40
12	TB-1-1/29/03	03-1369-8	1369-08A	02/03/03	17:09
13	MW-21-4	03-1369-5	1369-05B	02/03/03	21:40
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\03G1286\G1286Q01.D Vial: 17
Acq On : 3 Feb 03 10:29 am Operator: Eddie
Sample : f=1 Inst : GCMS-G
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2
Last Update : Mon Jan 13 10:38:23 2003
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 35% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1 Fluorobenzene I1 1	1.000	1.000	0.0	61	0.00
2		3 di-Cl-di-F-methane 85 8	0.308	0.289	6.3	61	0.00
3	P	4 Chloromethane 50 5	0.243	0.243	0.2	59	0.00
4		9 F114 85 135	0.319	0.349	-9.4	68	0.00
5	C	5 vinyl chloride 62 6	0.231	0.239	-3.4	63	0.00
6		6 bromomethane 94 9	0.227	0.215	5.3	69	0.00
7		7 Chloroethane 64 66	0.171	0.176	-3.1	64	0.00
8		8 tri-Cl-F-methane 101 10	0.390	0.441	-13.0	65	0.00
9		111 isopropyl alcohol x10	0.005	0.004#	17.4	61	0.00
10		100 ethyl ether x5	0.143	0.127	10.9	59	0.00
11		102 Acrolein x10	0.011	0.008#	32.4#	32#	0.00
12		119 methyl acetate	0.128	0.095	25.7#	46	0.00
13		104 Carbon disulfide	0.834	0.803	3.7	62	0.00
14		103 Acrylonitrilex10	0.024	0.022#	6.8	58	0.00
15		95 Acetone x10	0.019	0.016#	13.2	55	0.00
16		108 F-113	0.300	0.338	-12.7	64	0.00
17	M,C	13 11-dichloroethene 61 9	0.392	0.423	-7.8	66	0.00
18		101 Acetonnitrilex10	0.006	0.007#	-16.5	66	0.00
19		109 Iodomethane	0.311	0.353	-13.5	67	0.00
20		113 Tert butyl alcohol x10	0.009	0.008#	15.8	52	0.00
21		18 methylene chloride 49 8	0.643	0.298	53.6#	45	0.00
22		112 Allyl chloride	0.434	0.447	-3.1	66	0.00
23		200 Nitro methane x10	0.044	0.044#	-2.0	64	0.00
24		10 t-Bu-Me-ether 73 57	0.498	0.385	22.6#	56	0.00
25		19 t-12-di-Cl-ethene 96 6	0.301	0.299	0.6	62	0.00
26		98 Vinyl acetate x5	0.270	0.291	-7.7	113	0.00
27	P	21 11-dichloroethane 63 8	0.525	0.562	-7.1	65	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

543

Data File : C:\HPCHEM\1\DATA\03G1286\G1286Q01.D Vial: 17
Acq On : 3 Feb 03 10:29 am Operator: Eddie
Sample : f=1 Inst : GCMS-G
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2
Last Update : Mon Jan 13 10:38:23 2003
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 35% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
28		91 2-butanone MEKx10	0.094	0.085	9.7	59	0.00
29		115 Di isoprop ether	1.125	1.260	-11.9	58	0.00
30		22 c-12-di-Cl-ethene 96 6	0.294	0.277	5.7	58	0.00
31		23 22-Dichloropropane 77 9	0.453	0.447	1.2	65	0.00
32		24 Br-Cl-methane 128 13	0.094	0.097	-3.7	57	0.00
33	C	25 chloroform 83 8	0.525	0.482	8.2	60	0.00
34		201 Ethyl acetate x2	0.134	0.130	2.9	79	0.00
35		116 ETBE	0.807	0.703	12.8	55	0.00
36		117 Iso-butyl alcohol X10	0.027	0.026#	2.3	80	0.00
37		26 tetrahydrofuranx5	0.010	0.009#	17.0	51	0.00
38	S	27 Di-Br-F-Methane (S1) 11	0.400	0.332	17.0	58	0.00
39		34 111-tri-Cl-ethane 97 9	0.437	0.416	4.9	62	0.00
40		30 12-dichloroethane 64 6	0.175	0.185	-6.1	56	0.00
41		35 11-Di-Cl-propene 75 11	0.382	0.371	2.9	61	0.00
42	S	29 1,2-di-Cl-ethane-d4 [Sur	0.165	0.145	12.3	54	0.00
43	M	36 benzene 78 5	0.869	0.863	0.7	61	0.00
44		37 CCl4 117 11	0.335	0.347	-3.6	64	0.00
45		97 thiophene	0.432	0.399	7.8	58	0.00
46		118 TAME	0.556	0.474	14.7	54	0.00
47	C	39 12-di-Cl-propane 63 7	0.254	0.238	6.2	57	0.00
48	M	40 trichloroethene 130 13	0.269	0.273	-1.5	61	0.00
49		96 Me-methacrylate	0.095	0.074	22.7#	54	0.00
50		42 Br-di-Cl-methane 83 8	0.355	0.308	13.2	58	0.00
51		41 dibromomethane 174 17	0.123	0.117	4.5	54	0.00
52		45 c-13-di-Cl-propene 75 11	0.313	0.274	12.3	56	0.00
53	S	55 toluene-d8(S2) 100	0.500	0.496	0.7	62	0.00
54		92 2-ClEt-Vi-ether10	0.054	0.044#	18.5	48	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\03G1286\G1286Q01.D Vial: 17
Acq On : 3 Feb 03 10:29 am Operator: Eddie
Sample : f=1 Inst : GCMS-G
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2
Last Update : Mon Jan 13 10:38:23 2003
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 35% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
55	M C	56 toluene 91 9	0.817	0.773	5.4	61	0.00
56		107 Et methacrylate	0.169	0.157	7.4	86	0.00
57		93 2-Hexanone x5	0.057	0.049#	13.1	61	0.00
58		48 112-tri-Cl-Et 97 8	0.141	0.108	23.4#	57	0.00
59		58 1,2-di-br-ethane 107 109	0.114	0.117	-2.2	55	0.00
60		51 di-Br-Cl-methane 129 12	0.161	0.154	4.6	57	0.00
61		46 t-13-di-cl-propene 75 11	0.202	0.191	5.0	57	0.00
62		105 1-Chlorohexane	0.310	0.260	16.3	63	0.00
63	I	47 Cl-benzene-d5, I2	1.000	1.000	0.0	58	0.00
64		54 MIBK	0.297	0.299	-0.8	54	0.00
65		49 1,3-di-cl-propane 76 78	0.654	0.663	-1.4	56	0.00
66		59 tetra-Cl-ethene 166 16	0.880	0.946	-7.5	59	0.00
67	M P	60 chlorobenzene 112 7	1.461	1.554	-6.3	61	0.00
68		61 1112-tetra-Cl-Et 131 13	0.585	0.624	-6.6	57	0.00
69	C	64 ethylbenzene 91 10	2.816	2.875	-2.1	61	0.00
70		65 m/p-Xylenes x2	2.141	2.229	-4.1	61	0.00
71		99 1-4-di-Cl-butane	0.645	0.594	7.9	56	0.00
72	P	52 bromoform 173 17	0.274	0.295	-7.6	54	0.00
73		66 styrene 104 7	1.512	1.577	-4.3	61	0.00
74		67 o-xylene 91 10	2.106	2.137	-1.4	61	0.00
75	P	68 1122-Tetra-Cl-Et 83 8	0.387	0.365	5.7	55	0.00
76		110 t-1,4-dichloro-2-butene	0.081	0.066	17.9	64	0.00
77		106 Cl-benzyl	0.572	0.546	4.4	60	0.00
78	I	62 1,4-DCB-d4 150 152 I3	1.000	1.000	0.0	57	0.00
79		69 123-tri-Cl-Pr 110 9	0.122	0.116	4.8	54	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\03G1286\G1286Q01.D Vial: 17
Acq On : 3 Feb 03 10:29 am Operator: Eddie
Sample : f=1 Inst : GCMS-G
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2
Last Update : Mon Jan 13 10:38:23 2003
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 35% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound			AvgRF	CCRF	%Dev	Area%	Dev(min)
80	S	70 4-Br-1-F-Bz (S3)	174	9	0.893	0.877	1.9	57	0.00
81		71 isopropylbenzene	105	12	3.286	3.653	-11.2	63	0.00
82		72 bromobenzene	156	15	0.721	0.757	-4.9	56	0.00
83		73 n-propylbenzene	120	7	0.886	0.991	-11.9	62	0.00
84		74 2-Cl-Tl	126	128	0.589	0.580	1.5	61	0.00
85		75 4-Cl-Tl	126	128	0.804	0.826	-2.7	60	0.00
86		76 135-tri-Me-Bz	105	12	2.653	2.922	-10.1	64	0.00
87		79 tert-butylbenzene	119	9	2.724	2.994	-9.9	62	0.00
88		78 124-tri-Me-Bz	105	12	2.256	2.390	-5.9	60	0.00
89		80 13-di-Cl-Bz	146	148	1.149	1.104	3.9	58	0.00
90		82 14-di-Cl-Bz	146	148	1.670	1.727	-3.4	57	0.00
91		81 sec-butylbenzene	105	13	3.983	4.530	-13.7	65	0.00
92		77 4-iso-Pr-toluene	119	13	2.874	3.283	-14.2	64	0.00
93		84 12-di-Cl-benzene	146	14	1.109	1.085	2.2	56	0.00
94		85 n-butylbenzene	91	13	3.012	3.169	-5.2	61	0.00
95		86 12-diBr-3-Cl-Pra	157	15	0.081	0.075	7.7	51	0.00
96		87 124-tri-Cl-Bz	180	18	0.792	0.837	-5.7	55	0.00
97		88 naphthalene	128	12	0.665	0.653	1.9	56	0.00
98		90 123-tri-Cl-Bz	180	18	0.604	0.606	-0.3	54	0.00
99		89 hx-Cl-butadiene	225	26	0.621	0.753	-21.3#	65	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Continuing Calibration Concentration Summary

Data File G1286Q01.D
Method File E524G003

Compound Name	Amount	Actual	Units	%Dev	Target Response
1 Fluorobenzene I1 1	10	10.00	ppb	0.00	452540
3 di-Cl-di-F-methane 85 87	20	20.31	ppb	1.57	261414
4 Chloromethane 50 52	20	19.96	ppb	0.19	219813
9 F114 85 135	20	21.87	ppb	9.35	316045
5 vinyl chloride 62 64	20	20.68	ppb	3.39	215911
6 bromomethane 94 96	20	21.33	ppb	6.63	194925
7 Chloroethane 64 66	20	20.62	ppb	3.11	159444
8 tri-Cl-F-methane 101 103	20	22.61	ppb	13.05	399197
111 isopropyl alcohol x10	200	165.21	ppb	17.39	33735
100 ethyl ether x5	100	89.08	ppb	10.92	574581
102 Acrolein x10	200	135.22	ppb	32.39	69583
119 methyl acetate	20	15.57	ppb	22.14	86020
104 Carbon disulfide	20	19.27	ppb	3.66	726897
103 Acrylonitrilex10	200	186.34	ppb	6.83	201490
95 Acetone x10	200	192.73	ppb	3.64	148950
108 F-113	20	22.54	ppb	12.71	305786
13 11-dichloroethene 61 96	20	21.56	ppb	7.80	382493
101 Acetonnitrilex10	200	221.65	ppb	10.82	64113
109 Iodomethane	20	22.23	ppb	11.17	319397
113 Tert butyl alcohol x10	200	179.27	ppb	10.37	70164
18 methylene chloride 49 84	20	14.60	ppb	26.98	269655
112 Allyl chloride	20	20.62	ppb	3.09	404618
200 Nitro methane x10	200	203.99	ppb	2.00	402760
10 t-Bu-Me-ether 73 57	20	18.20	ppb	8.98	348747
19 t-12-di-Cl-ethene 96 61	20	19.87	ppb	0.63	270285
98 Vinyl acetate x5	100	107.65	ppb	7.65	1317545
21 11-dichloroethane 63 83	20	21.42	ppb	7.11	508716
91 2-butanone MEKx10	200	180.69	ppb	9.65	766869
115 Di isoprop ether	20	19.02	ppb	4.91	1140144
22 c-12-di-Cl-ethene 96 61	20	18.86	ppb	5.72	250940
23 22-Dichloropropane 77 97	20	19.76	ppb	1.20	404964
24 Br-Cl-methane 128 130	20	18.43	ppb	7.85	88024
25 chloroform 83 85	20	18.35	ppb	8.24	436047
201 Ethyl acetate x2	40	38.83	ppb	2.92	234941
116 ETBE	20	17.44	ppb	12.82	636643
117 Iso-butyl alcohol X10	200	195.46	ppb	2.27	236651
26 tetrahydrofuranx5	100	83.02	ppb	16.98	38501
27 Di-Br-F-Methane (S1) 111 1	20	18.73	ppb	6.35	300416
34 111-tri-Cl-ethane 97 99	20	19.02	ppb	4.89	376514
30 12-dichloroethane 64 62	20	18.11	ppb	9.44	167735
35 11-Di-Cl-propene 75 110	20	19.42	ppb	2.92	335806
29 1,2-di-Cl-ethane-d4 [Surr] 10	20	17.54	ppb	12.28	131175
36 benzene 78 52	20	19.85	ppb	0.74	780673
37 CCl4 117 119	20	20.71	ppb	3.57	313807

97 thiophene	20	18.45	ppb	7.76	360676
118 TAME	20	17.07	ppb	14.66	429098
39 12-di-Cl-propane 63 76	20	18.75	ppb	6.24	215801
40 trichloroethene 130 132	20	20.29	ppb	1.46	247256
96 Me-methacrylate	20	16.77	ppb	16.13	66783
42 Br-di-Cl-methane 83 85	20	17.37	ppb	13.15	278743
41 dibromomethane 174 172	20	19.09	ppb	4.54	105971
45 c-13-di-Cl-propene 75 110	20	17.55	ppb	12.27	248307
55 toluene-d8(S2) 100 99	20	19.86	ppb	0.71	448901
92 2-ClEt-Vi-ether10	200	163.00	ppb	18.50	395617

Compound Name	Amount	Actual	Units	%Dev	Target Response
56 toluene 91 92	20	18.93	ppb	5.36	699593
107 Et methacrylate	20	18.53	ppb	7.37	141689
93 2-Hexanone x5	100	86.89	ppb	13.11	223349
48 112-tri-Cl-Et 97 83	20	18.00	ppb	9.99	97469
58 1,2-di-br-ethane 107 109	20	18.25	ppb	8.74	105668
51 di-Br-Cl-methane 129 127	20	19.08	ppb	4.59	139016
46 t-13-di-cl-propene 75 110	20	18.99	ppb	5.03	173239
105 1-Chlorohexane	20	20.92	ppb	4.62	234998
47 Cl-benzene-d5, I2	10	10.00	ppb	0.00	130529
54 MIBK	20	19.00	ppb	4.99	78131
49 1,3-di-cl-propane 76 78	20	20.27	ppb	1.37	173008
59 tetra-Cl-ethene 166 168	20	21.50	ppb	7.52	247019
60 chlorobenzene 112 77	20	21.26	ppb	6.30	405572
61 1112-tetra-Cl-Et 131 133	20	21.31	ppb	6.55	162804
64 ethylbenzene 91 106	20	20.42	ppb	2.10	750524

Compound Name	Amount	Actual	Units	%Dev	Target Response
65 m/p-Xylenes x2	40	41.65	ppb	4.13	1163772
99 1-4-di-Cl-butane	20	18.42	ppb	7.89	155107
52 bromoform 173 175	20	19.81	ppb	0.97	76943
66 styrene 104 78	20	20.86	ppb	4.32	411683
67 o-xylene 91 106	20	20.29	ppb	1.44	557799
68 1122-Tetra-Cl-Et 83 85	20	18.86	ppb	5.72	95189
110 t-1,4-dichloro-2-butene	20	21.46	ppb	7.32	17263
106 Cl-benzyl	20	22.70	ppb	13.50	142646
62 1,4-DCB-d4 150 152 I3	10	10.00	ppb	0.00	105835
69 123-tri-Cl-Pr 110 97	20	19.05	ppb	4.75	24548
70 4-Br-1-F-Bz (S3) 174 95	20	19.62	ppb	1.88	185572
71 isopropylbenzene 105 120	20	22.23	ppb	11.16	773203
72 bromobenzene 156 158	20	20.98	ppb	4.92	160207
73 n-propylbenzene 120 78	20	22.38	ppb	11.91	209838
74 2-Cl-TI 126 128	20	19.71	ppb	1.45	122767
75 4-Cl-TI 126 128	20	20.54	ppb	2.68	174850
76 135-tri-Me-Bz 105 120	20	22.02	ppb	10.11	618394
79 tert-butylbenzene 119 91	20	21.98	ppb	9.92	633768
78 124-tri-Me-Bz 105 120	20	21.19	ppb	5.94	505826
80 13-di-Cl-Bz 146 148	20	19.22	ppb	3.92	233701
82 14-di-Cl-Bz 146 148	20	20.69	ppb	3.44	365652
81 sec-butylbenzene 105 134	20	22.75	ppb	13.74	958957

77 4-iso-Pr-toluene	119 134	20	22.84	ppb	14.22	694818
84 12-di-Cl-benzene	146 148	20	19.57	ppb	2.17	229608
85 n-butylbenzene	91 134	20	21.05	ppb	5.24	670846
86 12-diBr-3-Cl-Pra	157 155	20	18.47	ppb	7.67	15881
87 124-tri-Cl-Bz	180 182	20	19.19	ppb	4.03	177161
88 naphthalene	128 129	20	19.62	ppb	1.89	138127
90 123-tri-Cl-Bz	180 182	20	20.07	ppb	0.33	128316
				Ave.% Dev	7.11	

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

549

Data Filename: C:\HPCHEM\1\DATA\03G1286\G1286Q01.D
Method : C:\HPCHEM\1\METHODS\E524G003.M
Acq. Time : Feb 3 10:29 2003
Method Update: Mon Jan 13 10:38 2003
Quant. Time : Feb 03 14:06 2003
Print Time : Mon Feb 03 14:07 2003
Miscleneous :

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

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards											Dev(Min)	
1	1	Fluorobenzene I1	9.03	9.03	0.000	96	70	452.540	10.00		0.00	
47	47	Cl-benzene-d5, I2	12.67	12.66	0.000	82	119	130.529	10.00		0.01	
62	62	1,4-DCB-d4 150 15	15.15	15.15	0.000	152	150	105.835	10.00		0.00	
System Monitoring Compounds (Surrogate)											%Recovery	
27	27	Di-Br-F-Methane (	7.43	7.44	0.000	111	113	300.416	18.73	18.7	93.65%	
29	29	1,2-di-Cl-ethane-	8.02	8.02	0.000	65	102	131.175	17.54	17.5	87.72%	
55	55	toluene-d8(S2)	11.15	11.15	0.000	100	99	448.901	19.86	19.9	99.29%	
70	70	4-Br-1-F-Bz (S3)	13.90	13.90	0.000	174	95	185.572	19.62	19.6	98.12%	
Target Compounds											Qvalue	
<<< I1 : ISTD ID = 1 >>>												
3	3	di-Cl-di-F-methan	2.59	2.60	0.000	85	87	261.414	20.31	20.3	99	
4	4	Chloromethane	2.78	2.78	0.000	50	52	219.813	19.96	20.0	100	
9	9	F114 85 135	2.82	2.83	0.000	85	135	316.045	21.87	21.9	92	
5	5	vinyl chloride	2.96	2.96	0.000	62	64	215.911	20.68	20.7	97	
6	6	bromomethane	3.36	3.37	-0.001	94	96	194.925	21.33	21.3	100	
7	7	Chloroethane	3.52	3.52	0.000	64	66	159.444	20.62	20.6	100	
8	8	tri-Cl-F-methane	4.15	4.14	0.000	101	103	399.197	22.61	22.6	99	?
111	111	isopropyl alcoho	4.25	4.27	-0.002	45	43	33.735	165.21	165.2	1	#
100	100	ethyl ether x5	4.44	4.44	0.000	59	74	574.581	89.08	89.1	99	
102	102	Acrolein x10	4.16	4.15	0.001	56	55	69.583	135.22	135.2	98	?
119	119	methyl acetate	5.06	5.06	0.000	43	74	86.020	15.57	15.6	93	?
104	104	Carbon disulfide	5.19	5.18	0.000	76	78	726.897	19.27	19.3	100	
103	103	Acrylonitrilex10	4.89	4.89	0.000	53	52	201.490	186.34	186.3	99	
95	95	Acetone x10	4.31	4.31	0.000	43	58	148.950	192.73	192.7	94	
108	108	F-113	5.02	5.02	0.000	151	101	305.786	22.54	22.5	97	
13	13	11-dichloroethene	4.77	4.76	0.000	61	96	382.493	21.56	21.6	97	
101	101	Acetonnitrilex10	4.21	4.20	0.001	41	40	64.113	221.65	221.6	62	#
109	109	Iodomethane	4.80	4.80	0.000	142	127	319.397	22.23	22.2	99	
113	113	Tert butyl alcoh	4.85	4.86	-0.001	59	57	70.164	179.27	179.3	96	

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

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

550

Data Filename: C:\HPCHEM\1\DATA\03G1286\G1286Q01.D
Method : C:\HPCHEM\1\METHODS\E524G003.M
Acq. Time : Feb 3 10:29 2003
Method Update: Mon Jan 13 10:38 2003
Quant. Time : Feb 03 14:06 2003
Print Time : Mon Feb 03 14:07 2003
Miscleneous :

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

ID	Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
18	18 methylene chlorid	4.96	4.97	0.000	84	49	269.655	14.60	14.6	98	
	112 Allyl chloride	5.07	5.07	0.000	41	76	404.618	20.62	20.6	96	?
200	200 Nitro methane x1	5.81	5.82	0.000	61	46	402.760	203.99	204.0	99	?
10	10 t-Bu-Me-ether	6.00	6.00	0.000	73	57	348.747	18.20	18.2	96	
19	19 t-12-di-Cl-ethene	5.81	5.82	0.000	96	61	270.285	19.87	19.9	97	?
98	98 Vinyl acetate x5	6.40	6.41	0.000	43	86	1317.545	107.65	107.7	99	
21	21 11-dichloroethane	6.15	6.15	0.000	63	83	508.716	21.42	21.4	99	
91	91 2-butanone MEKx10	6.83	6.83	0.000	43	72	766.869	180.69	180.7	100	?
115	115 Di isoprop ether	6.85	6.85	0.000	45	87	1140.144	19.02	19.0	100	?
22	22 c-12-di-Cl-ethene	6.96	6.97	0.000	96	61	250.940	18.86	18.9	96	
23	23 22-Dichloropropan	7.36	7.35	0.001	77	97	404.964	19.76	19.8	100	
24	24 Br-Cl-methane	7.20	7.18	0.002	128	130	88.024	18.43	18.4	98	
25	25 chloroform	7.26	7.27	0.000	83	85	436.047	18.35	18.4	99	
201	201 Ethyl acetate x2	7.32	7.31	0.001	43	61	234.941	38.83	38.8	95	?
116	116 ETBE	7.40	7.40	0.000	59	87	636.643	17.44	17.4	99	
117	117 Iso-butyl alcoho	7.32	7.31	0.001	43	42	236.651	195.46	195.5	72	#?
26	26 tetrahydrofuranx5	7.71	7.71	0.000	72	42	38.501	83.02	83.0	83	
34	34 111-tri-Cl-ethane	8.23	8.23	0.000	97	99	376.514	19.02	19.0	99	
30	30 12-dichloroethane	8.12	8.13	0.000	62	64	167.735	18.11	18.1	98	
35	35 11-Di-Cl-propene	8.48	8.48	0.000	75	110	335.806	19.42	19.4	100	
36	36 benzene	8.74	8.75	0.000	78	52	780.673	19.85	19.9	99	
37	37 CCl4	8.68	8.68	0.000	117	119	313.807	20.71	20.7	100	
97	97 thiophene	8.89	8.89	0.000	84	58	360.676	18.45	18.4	97	
118	118 TAME	9.00	9.00	0.000	73	43	429.098	17.07	17.1	98	
39	39 12-di-Cl-propane	9.49	9.49	0.000	63	76	215.801	18.75	18.8	100	
40	40 trichloroethene	9.55	9.54	0.000	130	132	247.256	20.29	20.3	99	
96	96 Me-methacrylate	9.84	9.85	-0.001	69	100	66.783	16.77	16.8	99	
42	42 Br-di-Cl-methane	9.61	9.61	0.000	83	85	278.743	17.37	17.4	99	
41	41 dibromomethane	9.45	9.45	0.000	174	172	105.971	19.09	19.1	100	
45	45 c-13-di-Cl-propen	10.37	10.37	0.000	75	110	248.307	17.55	17.5	99	
92	92 2-ClEt-Vi-ether10	10.14	10.15	0.000	63	43	395.617	163.00	163.0	98	
56	56 toluene	11.22	11.23	0.000	91	92	699.593	18.93	18.9	99	

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

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

551

Data Filename: C:\HPCHEM\1\DATA\03G1286\G1286Q01.D
Method : C:\HPCHEM\1\METHODS\E524G003.M
Acq. Time : Feb 3 10:29 2003
Method Update: Mon Jan 13 10:38 2003
Quant. Time : Feb 03 14:06 2003
Print Time : Mon Feb 03 14:07 2003
Miscleneous :

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

ID	Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
107	107 Et methacrylate	11.36	11.36	0.000	69	99	141.689	18.53	18.5	99	
93	93 2-Hexanone x5	11.48	11.48	0.000	43	58	223.349	86.89	86.9	94	
48	48 112-tri-Cl-Et	11.03	11.03	0.000	97	83	97.469	18.00	18.0	94	
58	58 1,2-di-br-ethane	11.83	11.82	0.001	107	109	105.668	18.25	18.3	99	
51	51 di-Br-Cl-methane	11.57	11.57	0.000	129	127	139.016	19.08	19.1	99	
46	46 t-13-di-cl-propen	10.86	10.87	-0.001	75	110	173.239	18.99	19.0	97	
105	105 1-Chlorohexane	12.63	12.64	0.000	55	93	234.998	20.92	20.9	98	?
<<< I2 : ISTD ID = 47 >>>											
54	54 MIBK	10.53	10.52	0.000	43	58	78.131	19.00	19.0	96	
49	49 1,3-di-cl-propane	11.29	11.29	0.000	76	78	173.008	20.27	20.3	98	
59	59 tetra-Cl-ethene	12.00	12.00	0.000	166	168	247.019	21.50	21.5	99	
60	60 chlorobenzene	12.70	12.70	0.000	112	77	405.572	21.26	21.3	99	
61	61 1112-tetra-Cl-Et	12.63	12.62	0.000	131	133	162.804	21.31	21.3	99	?
64	64 ethylbenzene	12.90	12.90	0.000	91	106	750.524	20.42	20.4	99	
65	65 m/p-Xylenes x2	13.10	13.10	0.000	91	106	1163.772	41.65	41.7	97	
99	99 1-4-di-Cl-butane	13.45	13.46	0.000	55	41	155.107	18.42	18.4	98	
52	52 bromoform	13.21	13.22	0.000	173	175	76.943	19.81	19.8	96	
66	66 styrene	13.42	13.43	0.000	104	78	411.683	20.86	20.9	99	
67	67 o-xylene	13.49	13.50	0.000	91	106	557.799	20.29	20.3	98	?
68	68 1122-Tetra-Cl-Et	13.50	13.51	0.000	83	85	95.189	18.86	18.9	95	?
110	110 t-1,4-dichloro-2	13.66	13.67	0.000	89	53	17.263	21.46	21.5	82	?
106	106 Cl-benzyl	15.12	15.12	0.000	91	126	142.646	22.70	22.7	100	?
<<< I3 : ISTD ID = 62 >>>											
69	69 123-tri-Cl-Pr	13.64	13.64	0.000	110	97	24.548	19.05	19.0	92	?
71	71 isopropylbenzene	13.85	13.86	0.000	105	120	773.203	22.23	22.2	99	
72	72 bromobenzene	14.10	14.10	0.000	156	158	160.207	20.98	21.0	98	
73	73 n-propylbenzene	14.28	14.29	0.000	120	78	209.838	22.38	22.4	98	
74	74 2-Cl-Tl 126 1	14.37	14.37	0.000	126	128	122.767	19.71	19.7	97	
75	75 4-Cl-Tl 126 1	14.45	14.45	0.000	126	128	174.850	20.54	20.5	96	m
76	76 135-tri-Me-Bz	14.56	14.57	0.000	105	120	618.394	22.02	22.0	99	2/3/03
79	79 tert-butylbenzene	14.83	14.84	0.000	119	91	633.768	21.98	22.0	98	
78	78 124-tri-Me-Bz	14.94	14.94	0.000	105	120	505.826	21.19	21.2	96	

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

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

552

Data Filename: C:\HPCHEM\1\DATA\03G1286\G1286Q01.D
Method : C:\HPCHEM\1\METHODS\E524G003.M
Acq. Time : Feb 3 10:29 2003
Method Update: Mon Jan 13 10:38 2003
Quant. Time : Feb 03 14:06 2003
Print Time : Mon Feb 03 14:07 2003
Miscleneous :

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

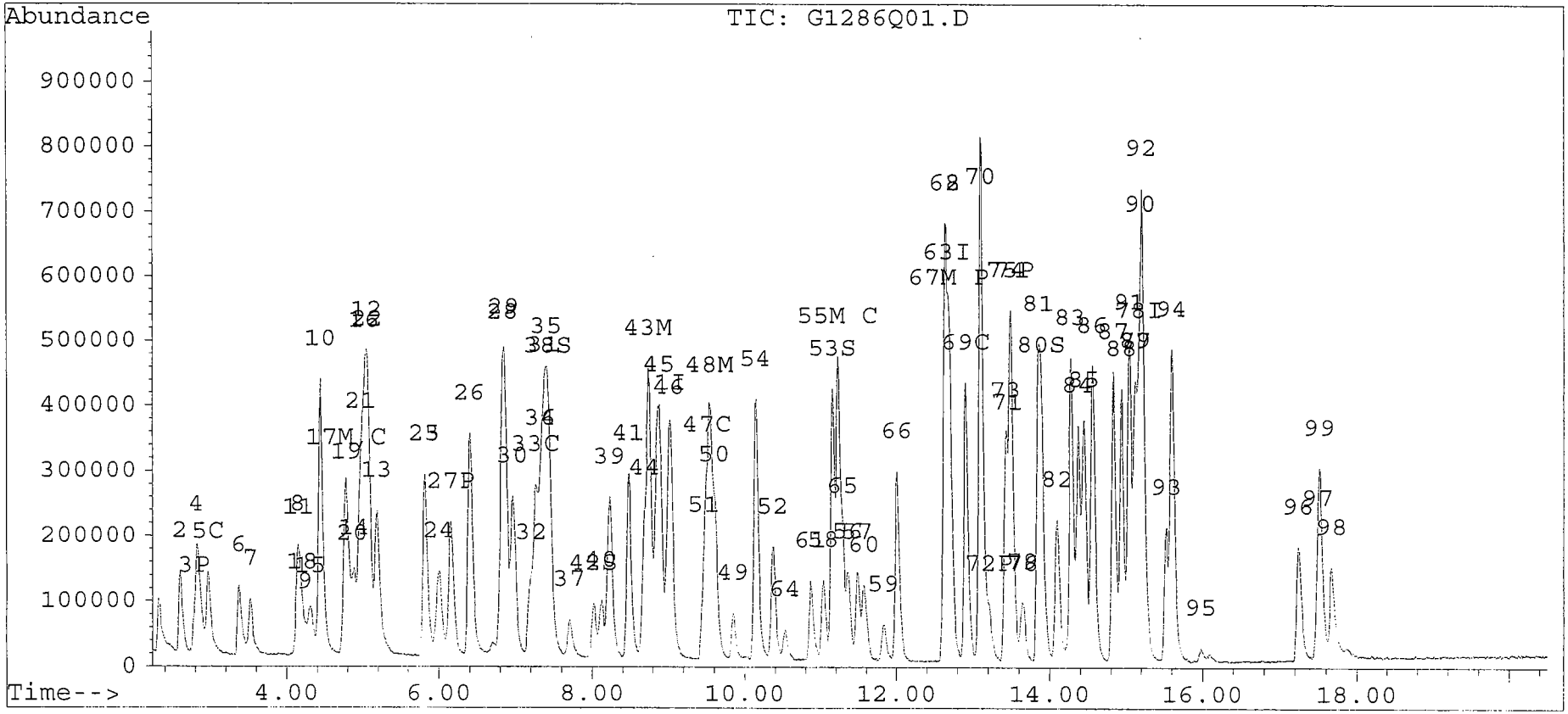
ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	80	13-di-Cl-Bz 146	15.11	15.11	0.000	146	148	233.701	19.22	19.2	92	?
82	82	14-di-Cl-Bz 146	15.18	15.19	0.000	146	148	365.652	20.69	20.7	91	
81	81	sec-butylbenzene	15.04	15.04	0.000	105	134	958.957	22.75	22.7	99	
77	77	4-iso-Pr-toluene	15.21	15.22	0.000	119	134	694.818	22.84	22.8	99	
84	84	12-di-Cl-benzene	15.53	15.52	0.000	146	148	229.608	19.57	19.6	98	
85	85	n-butylbenzene	15.60	15.60	0.000	91	134	670.846	21.05	21.0	99	
86	86	12-diBr-3-Cl-Pra	15.97	15.97	0.000	157	155	15.881	18.47	18.5	90	
87	87	124-tri-Cl-Bz	17.25	17.24	0.000	180	182	177.161	19.19	19.2	99	
88	88	naphthalene	17.48	17.49	0.000	128	129	138.127	19.62	19.6	99	
90	90	123-tri-Cl-Bz	17.67	17.68	0.000	180	182	128.316	20.07	20.1	99	
89	89	hx-Cl-butadiene	17.52	17.52	0.000	225	260	159.298	22.86	22.9	98	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\03G1286\G1286Q01.D Vial: 17
Acq On : 3 Feb 03 10:29 am Operator: Eddie
Sample : f=1 Inst : GCMS-G
Misc : Multiplr: 1.00
Quant Time: Feb 3 14:06 2003 Quant Results File: quant.res

Method : C:\HPCHEM\1\METHODS\E524G003.M
Title : **Applied P &Ch Lab** EPA 524.2
Last Update : Mon Jan 13 10:38:23 2003
Response via : Multiple Level Calibration



FORM-8A

Applied P & Ch Laboratory

Internal Standard Area and RT Summary for Method 524.2

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	031369
Project ID:	JPL	Project No:	04-442810	Sample Matrix:	Water
		CCV Data File:	G1286Q01	Instrument ID:	G

Batch No: 03G1286

#	Client Sample No	Lab Sample ID	Analysis Date & Time	IS-1 Area #	IS-1 RT #	IS-2 Area #	IS-2 RT #	IS-3 Area #	IS-3 RT #
12 Hour CCV STD			02/03/03 10:29	452540	9.03	130529	12.67	105835	15.15
CCV Upper Limit				905080	9.53	261058	13.17	211670	15.65
CCV Lower Limit				226270	8.53	65264	12.17	52917	14.65
1	03G1286-LCS-01	03G1286-LCS-01	02/03/03 10:58	445418	9.03	128019	12.67	107203	15.15
2	MW-20-3MS	03-1402-5MS	02/03/03 11:27	462471	9.03	129231	12.66	105873	15.16
3	MW-20-3MSD	03-1402-5MSD	02/03/03 11:55	464737	9.03	136301	12.66	115983	15.16
4	03G1286-MB-01	03G1286-MB-01	02/03/03 13:21	410431	9.02	114762	12.67	96341	15.16
5	EB-1-1/29/03	03-1369-1	02/03/03 13:50	490156	9.03	147007	12.67	116041	15.15
6	MW-21-1	03-1369-2	02/03/03 14:18	536758	9.02	154484	12.67	129013	15.15
7	MW-21-2	03-1369-3	02/03/03 14:47	534316	9.03	150664	12.67	123369	15.15
8	MW-21-3	03-1369-4	02/03/03 15:15	550199	9.03	158982	12.67	128784	15.15
9	MW-21-5	03-1369-6	02/03/03 16:12	636352	9.03	181509	12.67	134624	15.15
10	SOURCE BLANK-1	03-1369-7	02/03/03 16:40	607078	9.03	170890	12.66	136680	15.15
11	TB-1-1/29/03	03-1369-8	02/03/03 17:09	601020	9.02	170507	12.66	143403	15.15
12	MW-21-4	03-1369-5	02/03/03 21:40	643613	9.02	185783	12.67	153576	15.14
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS-1 = FLUOROBENZENE
IS-2 = CHLOROBENZENE-D5
IS-3 = 1,4-DICHLOROBENZENE-D4

Area Upper Limit = +100% of CCV internal standard area
Area Lower Limit = - 50% of CCV internal standard area
RT Upper Limit = +0.50 minutes of CCV internal standard RT
RT Lower Limit = - 0.50 minutes of CCV internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

9

VOC-044

Applied P & Ch Laboratory
Magnolia Ave. Chino CA 91710
(909) 590-1828 Fax: (909) 590-1498

VOC Analysis General Logbook

Sequence # 03G1044 Batch # 03G1044 Matrix: W Date: 1/10/03 Analyst: [illegible]

IS/Surrogate: GC14507/14508 Methanol(mark-M): PEG (mark-PEG): Defoaming(mark-DF):

Calib. + Ini. Batch ☑ Initial Batch; ☐ Middle Batch; ☐ Final Batch. ☐ Internal Study Datafile Path:

#	Type	Sample ID	Method	$V/X=f_1$	$V_f/V_i=f_2$	$V_{spg}/V_{inj}=f_3$	F	A-#	Datafile	Note	pH
2377	SP	G1044P01	E524G-003	25T25=1	/ =	/ =	1		G1044P01	1/10/03 1:51pm	
2378	Calib	3-0003		/ =	/ =	/ =			3-0003	GC14720	
2379		3-002		/ =	/ =	/ =			3-002		
2380		3-010		/ =	/ =	/ =			3-010		
2381		3-020		/ =	/ =	/ =			3-020		
2382		3-040		/ =	/ =	/ =			3-040		
2383		3-080		/ =	/ =	/ =			3-080		
2384	CCV	G1044Q01		/ =	/ =	/ =			G1044Q01	CCV/ICV/BFB GC14721	
2385	MS	M01		/ =	/ =	/ =			M01	S1011-03	<2
2386	LCS	L01		/ =	/ =	/ =			L01		
2387	MSD	N01		/ =	/ =	/ =			N01	S1011-03	<2
2388	MB	K01		/ =	/ =	/ =			K01		
2389	Sample	1084-03		/ =	/ =	/ =			1084-03		<2
2390		6844-02A		/ =	/ =	/ =			6844-02A		
2391		6844-01A		/ =	/ =	/ =			-01A		
2392		1017-1		/ =	/ =	/ =			1017-1		
2393		1011-02		/ =	/ =	/ =			1011-02		
2394		3		/ =	/ =	/ =			3		
2395		4		/ =	/ =	/ =			4		
2396		5		/ =	/ =	/ =			5		
2397		1047-01		/ =	/ =	/ =			1047-01		
2398		-02		/ =	/ =	/ =			-02		
2399		1051-2		/ =	/ =	/ =			1051-02		
2400		3		/ =	/ =	/ =			3		
2401		1084-1		/ =	/ =	/ =			1084-01		
2402		2		/ =	/ =	/ =			2		
2403		4		/ =	/ =	/ =			4		
2404				/ =	/ =	/ =					
2405				/ =	/ =	/ =					
2406				/ =	1/10/03	/ =					
2407				/ =	/ =	/ =					
2408				/ =	/ =	/ =					

Type	Op #	STD Lot #	$C_{std}(ng/\mu L)\times V_{std}(\mu L)/X(g \text{ or } mL)=T$	Op #	STD Lot #	$C_{std}(ng/\mu L)\times V_{std}(\mu L)/X(g \text{ or } mL)=T$
LCS/LCSD	2386	GC- 14721	200 × 2.25 /X= 20 ppb		GC-	× /X= ppb
MS/MSD	2385/2387	GC-	× /X= 25 ppb		GC-	× /X= ppb

Footnote/Anomaly:

FILE: [CUST.DOC.GC]VOC_LOG .TEX Root-File: VOC_LOG_ROOT.TEX 1-Page-File:[CUST.DOC.GC]VOC_LOG1.TEX; pH for field water sample only.
APCL form 7-201, April 03, 1996; Ver 4.1 No pencil. Use blue pen for record. Use red pen for correction. Supervisor Initial [illegible]

...plied P & Ch Laboratory
...Magnolia Ave. Chino CA 91710
...(909) 590-1828 Fax: (909) 590-1498

VOC-052

VOC Analysis General Logbook

...# 03G1286 Batch # 03G1286 Matrix: W Date: 2-3-03 Analyst: Eddie

...IS/Surrogate: GC- 14507/14508 Methanol(mark-M): _____ PEG (mark-PEG): _____ Defoaming(mark-DF): _____

...+ Ini. Batch ☑ Initial Batch; ☐ Middle Batch; ☐ Final Batch. ☐ Internal Study Datafile Path: _____

Type	Sample ID	Method	$V/X=f_1$	$V_f/V_i=f_2$	$V_{spg}/V_{inj}=f_3$	F	A-#	Datafile	Note	pH
SD	G1286P01	E524G	25125 = 1	/ =	/ =	1		G1286P01		
CW	Q01	003	/ =	/ =	/ =			Q01	2-3-03 10:29AM	G4489
MS	L01		/ =	/ =	/ =			L01		
MS	M01		/ =	/ =	/ =			M01	$1402-05	CL
MSD	N01		/ =	/ =	/ =			N01	$1402-05	CL
MB	K01		/ =	/ =	/ =			K01		
MB	K02		/ =	/ =	/ =			K02		
sample	1369-01A		/ =	/ =	/ =			1369-01A		CL
	02A		/ =	/ =	/ =			02A		
	03A		/ =	/ =	/ =			03A		
	04A		/ =	/ =	/ =			04A		
	05A		/ =	/ =	/ =			05A		
	06A		/ =	/ =	/ =			06A		
	07B		/ =	/ =	/ =			07B		
	08A		/ =	/ =	/ =			08A		
	1402-01		/ =	/ =	/ =			1402-01		
	02		/ =	/ =	/ =			02		
	03		/ =	/ =	/ =			03		
	04		/ =	/ =	/ =			04		
	05		/ =	/ =	/ =			05	MS	
	06		/ =	/ =	/ =			06		
	07		/ =	/ =	/ =			07		
	08		/ =	/ =	/ =			08		
	1369-05B		/ =	/ =	/ =			1369-05B		
			/ =	/ =	/ =					
			/ =	/ =	/ =					
			/ =	/ =	/ =					
			/ =	/ =	/ =					
			/ =	/ =	/ =					
			/ =	/ =	/ =					
			/ =	/ =	/ =					
			/ =	/ =	/ =					

2/5/03

Op #	STD Lot #	$C_{std}(ng/\mu L)\times V_{std}(\mu L)/X(g \text{ or } mL)=T$	Op #	STD Lot #	$C_{std}(ng/\mu L)\times V_{std}(\mu L)/X(g \text{ or } mL)=T$
2635	GC- 14802	200 × 2.5 /X= ~~50~~ ppb		GC-	× /X= ppb
2636/2637	GC-	× /X= ppb		GC-	× /X= ppb

...omaly:

20

AL 2-5-03

556

...GC]VOC_LOG .TEX Root-File: VOC_LOG_ROOT.TEX 1-Page-File:[CUST.DOC.GC]VOC_LOG1.TEX; pH for field water sample only.
...April 03, 1996; Ver 4.1 No pencil. Use blue pen for record. Use red pen for correction. Supervisor Initial